ISSN: 0090-1423

National Library of Medicine

CUMULATED INDEX MEDICUS

VOLUME 31, 1990

SUBJECT INDEX Ci-Ep

U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
Public Health Service
National Institutes of Health

NATIONAL LIBRARY OF MEDICINE
8600 Rockville Pike
Bethesda, Maryland 20894

NIH Publication No. 91-259

National Library of Medicine Cataloging in Publication

ZW
1
I384

Cumulated Index medicus. -- Vol. 1 (Jan.-Dec.1960)-
.-- Chicago : American Medical Association ;
Washington, D.C. : Supt. of Docs., U.S. G.P.O.
[distributor], 1961-
v.
Vols. for 1965- issued by the National Library of Medicine.
Continues: Quarterly cumulative Index medicus.
Annual cumulation of the monthly issues of Index medicus.
Vols. for 1971-1978 issued as DHEW publication ; no. (NIH) 72-259, etc.; for 1979- as NIH publication ; no. 80-259, etc.
Issues for 1967- include Bibliography of medical reviews.
ISSN 0090-1423 = Cumulated Index medicus.

1. Bibliography of Medicine 2. Medicine - indexes I. American Medical Association. II. National Library of Medicine (U.S.). III. Bibliography of medical reviews IV. Index medicus V. Series: DHEW publication ; no. (NIH) 72-259, etc. VI. Series: NIH publication ; no. 80-259, etc.

© *All or portions of this publication are protected against copying or other reproduction outside of the United States in accordance with the provisions of Article II of the Universal Copyright Convention.*

This book is printed on acid-free paper for permanence.

Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 30, 1991

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

CUMULATED INDEX MEDICUS

CONTENTS

Book 1

Preface v
Index Medicus Citation Format vii
Introduction viii
Materials Indexed viii
The Indexing Operation viii
Subject Heading Changes ix
Arrangement ix
Subject Section ix
Author Section xi
Bibliography of Medical Reviews xi
Access to Articles Cited xii
Interlibrary Loan Policy xii
Other Resources xiv
Regional Medical Libraries xiv
Foreign MEDLARS/MEDLINE Centers xv

MEDICAL SUBJECT HEADINGS (Contents) I-3

JOURNALS INDEXED Abbreviation Listing 1071
Full Title Listing 1153

Book 2 Subject Index A 1221

Book 3 Subject Index B-Ch 2510

Book 4 Subject Index Ci-Ep 3916

Book 5 Subject Index Eq-He 5328

Book 6 Subject Index Hi-Lh 6787

Book 7 Subject Index Li-Na 8017

Book 8 Subject Index Ne-Po 9324

Book 9 Subject Index Pr-So 10711

Book 10 Subject Index Sp-Z 12131

Book 11 Author Index A-D 13485

Book 12 Author Index E-J 14888

Book 13 Author Index K-M 16153

Book 14 Author Index N-Sh 17471

Book 15 Author Index Si-Z 18743

Book 16 Bibliography of Medical Reviews 19979

Specific regulation of the gene expression of some pancreatic enzymes during postnatal development and weaning in the calf. Le Huërou I, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2-3):257-64

Pan: a transcriptional regulator that binds chymotrypsin, insulin, and AP-4 enhancer motifs. Nelson C, et al. **Genes Dev** 1990 Jun;4(6):1035-43

The chymotrypsin enhancer core. Specific factor binding and biological activity. Meister A, et al. **J Biol Chem** 1989 Dec 5;264(34):20744-51

IMMUNOLOGY

A chymotryptic-type serine protease is required for IL-2 production by Jurkat T cells. Auberger P, et al. **Immunology** 1990 Aug;70(4):547-50

ISOLATION & PURIFICATION

One-step purification of trypsin and alpha-chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases. Schmitt S, et al. **J Chromatogr** 1990 Jun 27;510:239-42

Characteristics of neutral proteases present in inflamed human gingiva. Suomalainen K, et al. **Scand J Dent Res** 1989 Aug;97(4):346-54

METABOLISM

Trypsin-like, chymotrypsin-like and glycylprolyl dipeptidase activities in gingival crevicular fluid from human periodontal sites with gingivitis. Beighton D, et al. **Arch Oral Biol** 1989;34(11):843-6

Mode of cleavage of pig big endothelin-1 by chymotrypsin. Production and degradation of mature endothelin-1. Takaoka M, et al. **Biochem J** 1990 Sep 1;270(2):541-4

Multinuclear magnetic resonance studies on the calcium (II) binding site in trypsin, chymotrypsin, and subtilisin. Adebodun F, et al. **Biochemistry** 1989 Sep 19; 28(19):7524-31

Human alpha- to zeta-thrombin cleavage occurs with neutrophil cathepsin G or chymotrypsin while fibrinogen clotting activity is retained. Brezniak DV, et al. **Biochemistry** 1990 Apr 10;29(14):3536-42

Conformational dynamics in fluorophenylcarbamoyl-alpha-chymotrypsins. Kairi M, et al. **Biochim Biophys Acta** 1990 Jun 19;1039(2):157-70

Chemistry in a microenvironment of low pH, generated with the aid of an immobilized proteinase. Silver MS, et al. **Biochim Biophys Acta** 1990 May 31;1039(1):25-32

Generation of a different type of beta-kallikrein from porcine pancreatic alpha-kallikrein by the action of chymotrypsin--observation of proteolytic processing occurring around "kallikrein autolysis loop" region. Kamada M, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr; 38(4):1053-7

Characterization of the S'-subsite specificity of bovine pancreatic alpha-chymotrypsin via acyl transfer to added nucleophiles. Schellenberger V, et al. **Eur J Biochem** 1990 Jan 12;187(1):163-7

Proteolytic activation of the plant plasma membrane H(+)-ATPase by removal of a terminal segment. Palmgren MG, et al. **J Biol Chem** 1990 Aug 15;265(23):13423-6

Blood clotting factor IX BM Nagoya. Substitution of arginine 180 by tryptophan and its activation by alpha-chymotrypsin and rat mast cell chymase. Suehiro K, et al. **J Biol Chem** 1989 Dec 15;264(35):21257-65

Probing stability and dynamics of proteins by protease digestion. II: Identification of the initial chymotryptic cleavage sites of homologous cytochromes c. Miki Y, et al. **J Biomol Struct Dyn** 1988 Aug;6(1):1-21

Comparison of the physical properties of the nuclear progesterone receptor, bound to antiprogestin RU 486 or progestin ORG 2058, following limited proteolysis. Geier A, et al. **Steroids** 1990 Jun;55(6):283-8

[Effects of ethanol and acetaldehyde on proteolytic enzyme activity of the small intestine and pancreas] Skrzydlewska E. **Rocz Akad Med Bialymstoku** 1986-87;31-32:19-28 (Eng. Abstr.) (Pol)

[Interconnection between activity and conformational mobility of alpha-chymotrypsin in reverse micelle systems] Kliachko NL, et al. **Biokhimiia** 1989 Jul;54(7):1224-30 (Eng. Abstr.) (Rus)

PHARMACOKINETICS

[The cutaneous bioavailability of alpha-chymotrypsin from ointments] Gafitanu E, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Apr-Jun;93(2):353-6 (Eng. Abstr.) (Rum)

PHARMACOLOGY

Separation of different receptor-mediated effects of a prostaglandin H2 analogue (U46619) on human platelets by means of human granulocytic elastase and chymotrypsin. Lukasiewicz H, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3213-7

Chymotrypsin treatment of HLA-A and B molecules reveals 1D-IEF variation. Guttridge MG, et al. **Immunogenetics** 1989;30(6):506-10

Proteolytic activation of aldosterone biosynthesis in rabbit adrenal capsular cells by alpha-chymotrypsin. Higaki J, et al. **Methods Find Exp Clin Pharmacol** 1989 Sep; 11(9):555-8

PHYSIOLOGY

[Modification of the human pancreas with a feedback mechanism and possible consequences in chronic pancreatitis] Adler G, et al. **Z Gastroenterol** 1989 Dec;27 Suppl 3:38-40 (28 ref.) (Ger)

THERAPEUTIC USE

[Functional indices of the hypophysis, gonads and adrenal cortex during the treatment of patients with gonorrheal inflammation of the scrotal organs using proteolytic enzymes] Barabanov LG. **Vestn Dermatol Venerol** 1989; (8):46-8 (Eng. Abstr.) (Rus)

CHYMOTRYPSINOGEN

A new principle of enzyme catalysis: coupled vibrations facilitate conformational changes. Havsteen BH. **J Theor Biol** 1989 Sep 11;140(1):101-27

GENETICS

Changes in growth and pancreatic mRNA concentrations during postnatal development of rat pancreas. Iovanna JL, et al. **Pancreas** 1990 Jul;5(4):421-6

METABOLISM

Unusual fucoidin-binding properties of chymotrypsinogen and trypsinogen. Jones R. **Biochim Biophys Acta** 1990 Feb 9;1037(2):227-32

[Effects of ethanol and acetaldehyde on proteolytic enzyme activity of the small intestine and pancreas] Skrzydlewska E. **Rocz Akad Med Bialymstoku** 1986-87;31-32:19-28 (Eng. Abstr.) (Pol)

CI-581 see **KETAMINE**

CIALIT see under **ETHYLMERCURY COMPOUNDS**

CICATRIX

Mammaplasty: shape, volume, and scar size. de Pina DP. **Aesthetic Plast Surg** 1990 Winter;14(1):27-33

Incision and scar analysis in open (external) rhinoplasty. Adamson PA, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):671-5

A keloidal scar of the floor of the mouth and its associations. Case report. Ow RK. **Aust Dent J** 1989 Dec;34(6):522-3

Nonsurgical aesthetic alteration of the eyelids in pathological conditions. Hurwitz JJ, et al. **Can J Ophthalmol** 1990 Jun; 25(4):197-201

Development of BCG scar in relation to the age and nutritional status. Agarwal RK, et al. **Indian Pediatr** 1990 Mar;27(3):291-3

Untreated bacteriuria in asymptomatic girls with renal scarring. Hansson S, et al. **Pediatrics** 1989 Dec;84(6):964-8

Keloids and hypertrophic scars: a comprehensive review. Rockwell WB, et al. **Plast Reconstr Surg** 1989 Nov; 84(5):827-37 (122 ref.)

Glabellar frown lines: direct excision, an evaluation of the scars. Vecchione TR. **Plast Reconstr Surg** 1990 Jul; 86(1):46-52

Scar endometriosis. Brenner C, et al. **Surg Gynecol Obstet** 1990 Jun;170(6):538-40 (15 ref.)

[Benelux Society of Phlebology. 12 November 1988. Cicatrization] **Phlebologie** 1990 Jan-Mar;43(1):1-48 (Fre)

[Diagnosis and therapy of an in the cesarean section scar implanted early pregnancy] Rempen A, et al. **Z Geburtshilfe Perinatol** 1990 Jan-Feb;194(1):46-8 (Eng. Abstr.) (Ger)

BLOOD

Secretor state and renal scarring in girls with recurrent pyelonephritis. Lomberg H, et al. **FEMS Microbiol Immunol** 1989 Jun;1(6-7):371-5

Non-secretion of ABO blood group antigens: a host factor predisposing to recurrent urinary tract infections and renal scarring. May SJ, et al. **FEMS Microbiol Immunol** 1989 Jun;1(6-7):383-7

CHEMICALLY INDUCED

Blistering, erosions and scarring in a patient on etretinate. Ramsay B, et al. **Br J Dermatol** 1989 Sep;121(3):397-400

COMPLICATIONS

Cancer complicating chronic ulcerative and scarifying mucocutaneous disorders. Kaplan RP. **Adv Dermatol** 1987; 2:19-46 (147 ref.)

Basal cell burn carcinoma. Stromberg BV, et al. **Ann Plast Surg** 1990 Feb;24(2):186-8

Squamous carcinoma in scars: clinicopathological correlations. Visuthikosol V, et al. **Ann Plast Surg** 1986 Jan;16(1):42-8

Vimentin-positive squamous cell carcinoma arising in a burn scar. A highly malignant neoplasm composed of acantholytic round keratinocytes. Ikegawa S, et al. **Arch Dermatol** 1989 Dec;125(12):1672-6

Scar carcinomas of the lung in a histoplasmosis endemic area. Yoneda K. **Cancer** 1990 Jan 1;65(1):164-8

Desmoplastic trichoepithelioma nosology. Reappraisal about a case developed on a varicella scar. Blanc D, et al. **Dermatologica** 1990;180(1):44-7

Pretibial myxedema localized to scar tissue. Wright AL, et al. **Int J Dermatol** 1990 Jan-Feb;29(1):54-5

Cancers arising from burn scars. A literature review and report of twenty-one cases. Bartle EJ, et al. **J Burn Care Rehabil** 1990 Jan-Feb;11(1):46-9 (45 ref.)

Scar-associated malignant melanoma and squamous carcinoma in situ. Walker AN, et al. **South Med J** 1989 Nov;82(11):1419-21

[Scalp expansion in the treatment of cicatricial alopecia] Jin YT. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Mar;6(1):22-3, 74-5 (Eng. Abstr.) (Chi)

[Prevention, early diagnosis and treatment of carcinoma developing at a postburn scar] Lu KH. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1985 Dec;1(4):258-60 (Chi)

[Delivery in the scarred uterus. Apropos of 606 cases in 62,193 deliveries] Picaud A, et al. **Rev Fr Gynecol Obstet** 1990 Jun;85(6):387-92 (Eng. Abstr.) (Fre)

[Radiologic diagnosis of silicotic cicatricial cancer. Incidence and correlation with pathologic-anatomic results] Tschakert H, et al. **Radiologe** 1990 Apr;30(4):172-7 (Eng. Abstr.) (Ger)

[Endometriosis on a cesarean cicatrix. Apropos of 3 cases] Sartori CA, et al. **Minerva Chir** 1989 Sep 30;44(18):2043-5 (Eng. Abstr.) (Ita)

[Complications after surgical treatment of post-burn cicatricial deformities in children] Vozdvizhenskiĭ SI, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):107-10 (Rus)

[Treatment of postburn cicatricial deformations and contractures of the neck] Iudenich AA, et al. **Sov Med** 1989;(7):34-8 (Eng. Abstr.) (Rus)

[Laser recanalization of cicatricial stricture of esophagogastric anastomosis] Mamontov AS, et al. **Sov Med** 1989;(8):115-6 (Rus)

[Classification of post-burn cicatricial deformities of the neck and chest and clinico-anatomic substantiation of the use of cutaneofascial flaps from the thoracic wall] Iudenich AA, et al. **Vestn Khir** 1989 Nov;143(11):90-3 (Rus)

[Cicatricial stenosis of the pharynx, esophagus and stomach after chemical burns] Mumladze RB. **Vestn Khir** 1989 Apr; 142(4):106-8 (Rus)

[Surgical treatment of postburn cicatricial inversions of the lower eyelids with involvement of the lid edge and conjunctival ectopia] Grishkevich VM, et al. **Vestn Oftalmol** 1989 Jul-Aug;105(4):33-8 (Eng. Abstr.) (Rus)

DIAGNOSIS

Gd-DTPA enhanced MR imaging of the breast in patients with postoperative scarring and silicon implants. Heywang SH, et al. **J Comput Assist Tomogr** 1990 May-Jun; 14(3):348-56

Pigmented streaks in melanoma scars. Ho VC, et al. **J Dermatol Surg Oncol** 1990 Jul;16(7):663-6

[Magnetic resonance tomography using gadolinium-DTPA in the diskectomy syndrome--a reliable method of identifying a recurrent prolapse in scar tissue] Majewski A, et al. **Rontgenblatter** 1989 Dec;42(12):499-504 (Eng. Abstr.) (Ger)

DRUG THERAPY

Ocular cicatricial disease. Drug effects in vitro on cell proliferation, contraction, and viability. Heath TD, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1245-51

[The effect of chondroitin sulfate preparations on wound healing and the strength of the surgical scar] Fialkova MA, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):350-1 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

Incidence of hypertrophic scarring in burn-injured children. Spurr ED, et al. **Burns** 1990 Jun;16(3):179-81

ETIOLOGY

Cutaneous anthrax leading to corneal scarring from cicatricial ectropion. Yorston D, et al. **Br J Ophthalmol** 1989 Oct; 73(10):809-11

BCG vaccination and development of a scar. Sivarajah N, et al. **Ceylon Med J** 1990 Jun;35(2):75-7

The scars of newborn intensive care. Cartlidge PH, et al. **Early Hum Dev** 1990 Jan;21(1):1-10

Gluteal pouching: a complication of perineal burn scar contracture. A case report. Alghanem AA, et al. **J Burn Care Rehabil** 1990 Mar-Apr;11(2):137-9

Microcirculation in hypertrophic scars after burn injury. Leung KS, et al. **J Burn Care Rehabil** 1989 Sep-Oct; 10(5):436-44

Bacterial attachment as a predictor of renal abnormalities in boys with urinary tract infection. de Man P, et al. **J Pediatr** 1989 Dec;115(6):915-22

Relation of urinary tract infection and vesicoureteral reflux to scars: follow-up of thirty-eight patients. Holland NH, et al. **J Pediatr** 1990 May;116(5):S65-71

Eyelid complications in trachoma. I. Cicatricial entropion. Nasr AM. **Ophthalmic Surg** 1989 Nov;20(11):800-7

GENETICS

Hypertrophic scar: a genetic hypothesis. Lewis WH, et al. **Burns** 1990 Jun;16(3):176–8

IMMUNOLOGY

Studies of cicatricial pemphigoid autoantibodies using direct immunoelectron microscopy and immunoblot analysis. Bernard P, et al. **J Invest Dermatol** 1990 May;94(5):630–5

METABOLISM

Isolation and some structure analyses of a copolymeric chondroitin sulfate–dermatan sulfate proteoglycan from post–burn, human hypertrophic scar. Garg HG, et al. **Carbohydr Res** 1990 Mar 25;197:159–69

Studies in fetal wound healing, VI. Second and early third trimester fetal wounds demonstrate rapid collagen deposition without scar formation. Longaker MT, et al. **J Pediatr Surg** 1990 Jan;25(1):63–8; discussion 68–9

Expression of different glycosaminoglycan synthetic phenotypes by lapine dermal and dermal wound fibroblasts. Bertolami CN, et al. **Matrix** 1990 Mar;10(1):1–9

Human skin and post–burn scar hyaluronan: demonstration of the association with collagen and other proteins. Burd DA, et al. **Matrix** 1989 Aug;9(4):322–7

PATHOLOGY

Scarring alopecia in psoriasis. Wright AL, et al. **Acta Derm Venereol (Stockh)** 1990;70(2):156–9

Use of nude (athymic) mice for the study of hypertrophic scars and keloids: vascular continuity between mouse and implants. Kischer CW, et al. **Anat Rec** 1989 Nov; 225(3):189–96

Ultrasonography of the lower uterine segment after multiple caesarean sections. Kirkinen P. **Ann Med** 1990 Apr; 22(2):137–9

Papular acne scars. A common cutaneous finding. Wilson BB, et al. **Arch Dermatol** 1990 Jun;126(6):797–800

Wound healing. Relationship of wound closing tension to scar width in rats. Burgess LP, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jul;116(7):798–802

A comparison of scar quality in wounds closed under tension with PGA (Dexon) and Polydioxanone (PDS). Chantarasak ND, et al. **Br J Plast Surg** 1989 Nov;42(6):687–91

On the nature of keloid and hypertrophic scars. Muir IF. **Br J Plast Surg** 1990 Jan;43(1):61–9

Increased fibronectin production by cell lines from hypertrophic scar and keloid. Kischer CW, et al. **Connect Tissue Res** 1989;23(4):279–88

Scar cancer of the lung. Prasad US, et al. **Indian J Chest Dis Allied Sci** 1989 Apr–Jun;31(2):125–8

Locus minoris resistentiae and the Koebner Phenomenon. Miller RA. **Int J Dermatol** 1990 Apr;29(3):223–4

Lymphoplasmocytoid lymphoma arising in herpes zoster scars. Aloi FG, et al. **J Am Acad Dermatol** 1990 Jan; 22(1):130–1

The use of a modified tonometer in burn scar therapy. Esposito G, et al. **J Burn Care Rehabil** 1990 Jan–Feb; 11(1):86–90

Rating the burn scar. Sullivan T, et al. **J Burn Care Rehabil** 1990 May–Jun;11(3):256–60

Comparison of scar contracture with the use of microskin and Chinese–type intermingled skin grafts on rats. Yeh FL, et al. **J Burn Care Rehabil** 1990 May–Jun;11(3):221–3

The effect of cigarette smoking on wound healing. Siana JE, et al. **Scand J Plast Reconstr Surg Hand Surg** 1989; 23(3):207–9

Why does topical silicone gel improve hypertrophic scars? A hypothesis [letter; comment] Beranek JT. **Surgery** 1990 Jul;108(1):122 Comment on: Surgery 1989 Oct;106(4):781–6; discussion 786–7.

[Hypertrophic pannus of the cornea] Massin P, et al. **J Fr Ophtalmol** 1989;12(5):395–8 (Fre)

[Subretinal neovascularization: evolution of cicatrix of photocoagulation in the absence of recurrence] Othenin–Girard P, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):364–8 (Eng. Abstr.) (Fre)

[Cesarean section in 1988. Obstetrical problems posed by the scarred uterus] Rudigoz RC, et al. **Rev Fr Gynecol Obstet** 1990 Feb;85(2):105–8 (18 ref.) (Fre)

[The mechanism of the formation of pathological scars] Sizov VM. **Klin Khir** 1990;(3):51–4 (22 ref.) (Rus)

PHYSIOPATHOLOGY

Sheet of scar causes trapdoor deformity: a hypothesis. Hosokawa K, et al. **Ann Plast Surg** 1990 Aug;25(2):134–5

Proteoglycan–lymphocyte association in the development of hypertrophic scars. Linares HA. **Burns** 1990 Feb;16(1):21–4

Changes in astroglial scar formation in rat optic nerve as a function of development. Trimmer PA, et al. **J Comp Neurol** 1990 Jun 15;296(3):359–78

Fetal wound healing: an in vitro explant model. Burd DA, et al. **J Pediatr Surg** 1990 Aug;25(8):898–901

The biology of scar formation. Hardy MA. **Phys Ther** 1989 Dec;69(12):1014–24 (68 ref.)

[Myofibroblast and scar tissue] Zhang SX. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):229–32 (Chi)

[Behavior of the section and arterial suture site in growing subjects] Villegas–Alvarez F, et al. **Bol Med Hosp Infant Mex** 1989 Nov;46(11):715–8 (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

Biomaterials, scar tissue and ophthalmic microsurgery. Constable IJ. **Aust N Z J Surg** 1989 Oct;59(10):755–9 (18 ref.)

Survey of treatment modalities for the prevention of hypertrophic facial scars. Gallagher J, et al. **J Burn Care Rehabil** 1990 Mar–Apr;11(2):118–20

Use of positive plaster impressions to facilitate measurement of anti–burn scar support gloves for severely burned hands. Ward RS, et al. **J Burn Care Rehabil** 1989 Jul–Aug; 10(4):351–3

Exogenous electric current can reduce the formation of hypertrophic scars. Weiss DS, et al. **J Dermatol Surg Oncol** 1989 Dec;15(12):1272–5

Use of Vicryl (polyglactin 910) mesh to limit epidural scar formation after laminectomy. Nussbaum CE, et al. **Neurosurgery** 1990 Apr;26(4):649–54

Potentiation of colchicine–induced collagenolysis. Labandter H, et al. **Surg Forum** 1978;29:592–4

[A method of expansion of soft tissues in plastic and reconstruction surgery (review of the literature)] Moroz VIu, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):140–3 (54 ref.) (Rus)

[Use of siloxane films in the treatment of contracture of the knee joint] Kornilov NV, et al. **Vestn Khir** 1989 Nov; 143(11):48–50 (Eng. Abstr.) (Rus)

[Clinical method of the evaluation of postoperative scarring and preventive cytostatic therapy after glaucoma surgery] Alekseev BN, et al. **Vestn Oftalmol** 1989 Nov–Dec; 105(6):15–20 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Prediction of poor outcome of cutaneous surgery [letter] Rebora A, et al. **Lancet** 1989 Nov 4;2(8671):1109

RADIONUCLIDE IMAGING

DMSA renal scanning versus urography for detecting renal scars in vesicoureteral reflux. Ozen HA, et al. **Eur Urol** 1990;17(1):47–50

[Evaluation of renal scarring in children with primary VUR by 99mTc–DMSA renoscintigraphy] Konda R, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Jun;80(6):884–90 (Eng. Abstr.) (Jpn)

RADIOTHERAPY

[Control of a hypertrophic scar with the application of radioactive nuclides] Huang CB. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):81–3, 155 (Eng. Abstr.) (Chi)

[Value of interstitial irradiation of keloid scars by Iridium 192. Apropos of 46 cases] Bertiere MN, et al. **Ann Chir Plast Esthet** 1990;35(1):27–30 (Eng. Abstr.) (Fre)

[Postoperative prevention of hypertrophic scars and keloids using radiotherapy] Handl–Zeller L, et al. **Hautarzt** 1990 Mar;41(3):146–8 (Eng. Abstr.) (Ger)

SURGERY

Experience of reverse medial arm flaps in the reconstruction of burned elbow scar contractures. Yang JY. **Burns** 1989 Oct;15(5):330–4

Timing of scar revision techniques. Borges AF. **Clin Plast Surg** 1990 Jan;17(1):71–6

Dermal implants: safety of products injected for soft tissue augmentation. Clark DP, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 1):992–8 (72 ref.)

A new method for correction of the vertical scar observed following scalp reduction for extensive alopecia. Frechet P. **J Dermatol Surg Oncol** 1990 Jul;16(7):640–4

Carbon dioxide laser treatment of pitted acne scarring. Garrett AB, et al. **J Dermatol Surg Oncol** 1990 Aug; 16(8):737–40

Occipitocervical fusion for reduction of traumatic periodontoid hypertrophic cicatrix. Case report. Lansen TA, et al. **J Neurosurg** 1990 Sep;73(3):466–70

Revision of a vertical tracheotomy scar using the W–plasty technique. Adamson PA, et al. **J Otolaryngol** 1989 Dec; 18(7):362–4

The treatment of burn scar hypopigmentation and surface irregularity by dermabrasion and thin skin grafting. Onur Erol O, et al. **Plast Reconstr Surg** 1990 May;85(5):754–8

[Plastic surgery of scar deformity of the breast following burns] Cao HP. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Dec;4(4):241–2 (Chi)

[Evaluation of the clinical application of 5 kinds of free upper arm flaps] Gao JH. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Jun;5(2):89–90, 156 (Eng. Abstr.) (Chi)

[Clinical use of a rotation cheek flap] Han JQ. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):273–4, 317 (Eng. Abstr.) (Chi)

[Transplantation of a platysma musculocutaneous flap for burn wounds and scar contractures of the occipito–cervical region] Huan XY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):206–7, 239 (Eng. Abstr.) (Chi)

[Treatment of axillary burn scar contracture with a parascapular flap and lateral thoracic island flap] Huang XY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):122–4, 160 (Eng. Abstr.) (Chi)

[A 5–flap procedure for the treatment of an axillary webbed scar] Liu Q, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):117–8, 120, 159 (Eng. Abstr.) (Chi)

[Expanded forehead flap for reconstruction of the nose] Lu KH. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Sep;5(3):182–3, 237 (Eng. Abstr.) (Chi)

[Reversed forearm island flap with dorsal interosseous artery for reconstruction of postburn deformities of the hand—report of 6 cases] Qian YL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):81–2, 155 (Eng. Abstr.) (Chi)

[The use of a fibrinous adhesive agent in plastic surgery] Shi YM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):271–2 (Chi)

[The use of an anterior cervico–thoracic pedicle flap for the treatment of scar contracture of the neck] Wang EY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):253–4, 317 (Eng. Abstr.) (Chi)

[Surgical treatment of scar contracture of a burned hand] Wang JD. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):276–8 (Chi)

[Repair of scarred alopecia using the soft–tissue expander (report of 17 cases] Wang QF. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Sep;4(3):174–5, 234 (Eng. Abstr.) (Chi)

[Relaxation and repair of axillary scar contracture and musculocutaneous nerve injury] Yang YX. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Sep;5(3):164–6, 235 (Eng. Abstr.) (Chi)

[The use of an indigenous tissue expander in the repair of scar contracture] Yu BL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Dec;4(4):249–51, 316 (Eng. Abstr.) (Chi)

[Complication of soft tissue expander dilation and its prevention] Zha YK. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):113–4 (Chi)

[Planning of a local flap of expanded scalp for repair of alcpecia cicatrisata] Ai YF. **Chung Hua Wai Ko Tsa Chih** 1989 Sep;27(9):558–60, 575 (Eng. Abstr.) (Chi)

[Rapid tissue expansion] Masson CL, et al. **Ann Chir Plast Esthet** 1989;34(6):521–3 (Eng. Abstr.) (Fre)

[Reconstruction of the upper lip using the mucosal eversion technic] Meyer R, et al. **Laryngorhinootologie** 1989 Nov; 68(11):591–4 (Eng. Abstr.) (Ger)

[Surgery of a cicatricial stenosis of the common bile duct] Possati L. **Chir Patol Sper** 1985 Dec;33(6):183–90 (20 ref.) (Ita)

[Results of endoscopic treatment of choledochal calculosis and cicatricial stenosis of the papilla] Fornaro R, et al. **Minerva Chir** 1989 Nov 30;44(22):2295–301 (19 ref.) (Eng. Abstr.) (Ita)

[Removal of postburn scar deformations of the lower third of the face] Grishkevich VM, et al. **Klin Khir** 1990;(3):17–20 (Eng. Abstr.) (Rus)

[Correction of post–burn cicatricial deformities and contractures of the neck by free autologous transplantation of the tissues] Iudenin AA, et al. **Vestn Khir** 1990 Mar; 144(3):101–3 (Rus)

[Endoscopic dissection of cicatricial strictures of esophageal anastomosis] Miroshnikov BI, et al. **Vestn Khir** 1989 Sep; 143(9):116–8 (Rus)

[Anterior delimiting keratotomy in posttraumatic corneal cicatrices] Gundorov RA, et al. **Vestn Oftalmol** 1989 Sep–Oct;105(5):12–3 (Eng. Abstr.) (Rus)

[A method of treatment of scarred membrane of the larynx] Alimetov KhA, et al. **Vestn Otorinolaringol** 1990 May–Jun; (3):58–60 (Rus)

[Postoperative treatment as an important factor in the prevention of adverse effects after dermabrasion of acne scars] Ibrulj–Prohić D. **Med Arh** 1989;43(1):23–6 (Eng. Abstr.) (Ser)

THERAPY

Topical silicone gel: a new treatment for hypertrophic scars [see comments] Ahn ST, et al. **Surgery** 1989 Oct; 106(4):781–6; discussion 786–7 Comment in: Surgery 1990 Jul;108(1):122.

[Spinal cord stimulation and surgical cordotomy for nerve root scars following herniated lumbar disk intervention] Probst C. **Clin Ter** 1989 Nov 15;131(3):145–7 (Ita)

VETERINARY

Squamous cell carcinoma originating from an epithelial scar in a horse. Baird AN, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):1999–2000

Intralesional triamcinolone hexacetonide in hypertrophic scarring in a horse [letter] van Wingerden JJ, et al. **J S Afr Vet Assoc** 1989 Jun;60(2):70

Delayed wound closure and scar revision. Booth LC.

Vet Clin North Am Equine Pract 1989 Dec;5(3):615–32 (13 ref.)

CIGUATOXIN see under MARINE TOXINS

CILASTATIN

ADMINISTRATION & DOSAGE

[Clinical laboratory approach to estimating the effective administration dose of imipenem/cilastatin. Evaluation of the disk susceptibility test and its interpretation system] Matsuo K, et al. **Jpn J Antibiot** 1989 Nov;42(11):2377–92 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Seizure propensity with imipenem [letter; comment] Brown RB, et al. **Arch Intern Med** 1990 Jul;150(7):1551 Comment on: Arch Intern Med 1989 Aug;149(8):1881–3.

PHARMACOKINETICS

Clinical pharmacology of imipenem and cilastatin in premature infants during the first week of life. Reed MD, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1172–7

Dose-dependent kinetics of cilastatin in laboratory animals. Lin JH, et al. **Drug Metab Dispos** 1989 Jul–Aug; 17(4):426–32

Pharmacokinetics of imipenem/cilastatin in neutropenic patients with haematological malignancies. Janmohamed RM, et al. **J Antimicrob Chemother** 1990 Mar;25(3):407–12

Single-dose kinetics of imipenem/cilastatin during continuous arteriovenous haemofiltration in intensive care patients. Keller E, et al. **Nephrol Dial Transplant** 1989; 4(7):640–5

[Study of the intraperitoneal penetration of imipenem/cilastatin in acute peritonitis with perforation] Pezé P, et al. **Pathol Biol (Paris)** 1990 Jun;38(5 (Pt 2)):504–7 (Eng. Abstr.) **(Fre)**

[Clinical pharmacokinetics of an imipenem–cilastatin combination] Singlas E. **Presse Med** 1990 Apr 4; 19(13):598–605 (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Pharmacokinetics in healthy subjects of FCE 22101 and its acetoxymethyl ester, FCE 22891: effect of co-administration of imipenem/cilastatin on the renal metabolism of FCE 22101. Norrby SR, et al. **J Antimicrob Chemother** 1990 Mar;25(3):371–83

STANDARDS

Stability of imipenem and cilastatin sodium in total parenteral nutrient solution. Zaccardelli DS, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun;14(3):306–9

THERAPEUTIC USE

Drugs recently released in Belgium. Torasemide, nalbuphine, imipenem–cilastatin. Harvengt C. **Acta Clin Belg** 1987; 42(4):298–302

Drug therapy during continuous arteriovenous hemofiltration. Keller E. **Adv Exp Med Biol** 1989; 260:117–27 (16 ref.)

Ceftazidime versus imipenem–cilastatin as initial monotherapy for febrile neutropenic patients. Liang R, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1336–41

Ceftriaxone versus imipenem/cilastatin as empirical monotherapy for infections in cancer patients. Bucaneve G, et al. **Chemotherapy** 1989;35 Suppl 2:10–5

A comparative study of ceftriaxone plus amikacin, ceftazidime plus amikacin and imipenem/cilastatin in the empiric therapy of febrile granulocytopenic cancer patients. Liu CY, et al. **Chemotherapy** 1989;35 Suppl 2:16–22

The efficacy and safety of imipenem/cilastatin in the treatment of severe bacterial infections. D'Amato C, et al. **J Chemother** 1990 Apr;2(2):100–7

A comparison between imipenem and metronidazole prophylaxis against sepsis following appendicectomy. Burkitt DS, et al. **J Hosp Infect** 1990 Apr;15(3):283–6

Comparative clinical trial of ceftazidime and imipenem/cilastatin in patients with severe nosocomial pneumonias and septicaemias. Hartenauer U, et al. **J Hosp Infect** 1990 Apr;15 Suppl A:61–4

Challenges in the design of trials to evaluate antibacterial agents in serious infections. Norrby SR. **J Hosp Infect** 1990 Apr;15 Suppl A:13–21

Imipenem–cilastatin in pediatric patients: an overview of safety and efficacy in studies conducted in the United States [see comments] Ahonkhai VI, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):740–4 Comment in: Pediatr Infect Dis J 1989 Nov;8(11):792–4.

Imipenem–cilastatin therapy in a child with meningitis caused by a multiply resistant pneumococcus [letter] Asensi F, et al. **Pediatr Infect Dis J** 1989 Dec;8(12):895

Use of imipenem–cilastatin in pediatrics [comment] Overturf GD. **Pediatr Infect Dis J** 1989 Nov;8(11):792–4 (19 ref.) Comment on: Pediatr Infect Dis J 1989 Nov;8(11):740–4.

[Imipenem–cilastatin in infections] Armengaud M. **Presse Med** 1990 Apr 4;19(13):629–33 (Eng. Abstr.) **(Fre)**

[Value of an imipenem–cilastatin combination in surgery and surgical care units] Bouletreau P. **Presse Med** 1990 Apr 4;19(13):616–9 (Eng. Abstr.) **(Fre)**

[An imipenem–cilastatin combination in the treatment of infection in hemato-oncology] Espinouse D. **Presse Med** 1990 Apr 4;19(13):625–8 (Eng. Abstr.) **(Fre)**

[An imipenem–cilastatin combination in the treatment of infection at general intensive care units] Gouin F. **Presse Med** 1990 Apr 4;19(13):620–4 (27 ref.) (Eng. Abstr.) **(Fre)**

[Study of imipenem–cilastatin at intensive care units] Leroy J. **Presse Med** 1990 Apr 4;19(13):613–5 (Eng. Abstr.) **(Fre)**

[Prospective, randomized, controlled study of imipenem–cilastatin versus cefotaxime–amikacin in the treatment of lower respiratory tract infection and septicemia at intensive care units] Mouton Y, et al. **Presse Med** 1990 Apr 4;19(13):607–12 (Eng. Abstr.) **(Fre)**

[Clinical study of imipenem/cilastatin sodium in children with severe infections] Inoue M, et al. **Jpn J Antibiot** 1990 Jan;43(1):31–9 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of therapy for aspiration pneumonia with imipenem/cilastatin sodium] Kikuchi N, et al. **Jpn J Antibiot** 1990 Jan;43(1):23–30 (Eng. Abstr.) **(Jpn)**

[Clinical efficacy of imipenem/cilastatin sodium in patients with respiratory tract infections caused by Pseudomonas aeruginosa] Mikasa K, et al. **Jpn J Antibiot** 1990 Jan; 43(1):9–13 (Eng. Abstr.) **(Jpn)**

[Evaluation of imipenem/cilastatin sodium in the treatment of respiratory tract infections] Shimokata K, et al. **Jpn J Antibiot** 1990 Jan;43(1):14–22 (Eng. Abstr.) **(Jpn)**

[Clinical evalustion of imipenem/cilastatin sodium against severe infections complicated with hematological disorders and solid tumors] Takemori H, et al. **Jpn J Antibiot** 1989 Dec;42(12):2566–73 (Eng. Abstr.) **(Jpn)**

[Annual changes in isolation of MRSA in our department and chemotherapeutic effect of antibiotics including minocycline against postoperative infections of methicillin-resistant S. aureus] Yokoyama T, et al. **Jpn J Antibiot** 1990 Jan;43(1):131–8 (Eng. Abstr.) **(Jpn)**

CILIA

see related

EPITHELIUM

Auditory hair cells in human fetuses: synaptogenesis and ciliogenesis. Lavigne-Rebillard M, et al. **J Electron Microsc Tech** 1990 Jun;15(2):115–22

ANALYSIS

Localization of the sea urchin Spec3 protein to cilia and Golgi complexes of embryonic ectoderm cells. Eldon ED, et al. **Genes Dev** 1990 Jan;4(1):111–22

DRUG EFFECTS

In vitro effects of colchicine and nocodazole on ciliogenesis in quail oviduct. Boisvieux-Ulrich E, et al. **Biol Cell** 1989; 67(1):67–79

Phosphoproteins associated with cyclic nucleotide stimulation of ciliary motility in Paramecium. Bonini NM, et al. **J Cell Sci** 1990 Feb;95 (Pt 2):219–30

Inhibition of ciliary activity by phorbol esters in rabbit tracheal epithelial cells. Kobayashi K, et al. **Lung** 1989; 167(5):277–84

Polyadenylated RNA during DAPI-arrested regeneration of Tetrahymena cilia. Krawczyńska W, et al. **Mol Cell Biochem** 1990 Jan 18;92(1):53–60

[Measuring ciliary frequency: modification of frequency by beta-2-adrenergic drugs and calcium antagonists] Kaspar P, et al. **Wien Med Wochenschr Suppl** 1989;104:suppl 46–7 **(Ger)**

ENZYMOLOGY

Alkaline phosphatase from Paramecium cilia and cell bodies: purification and characterization. Klumpp S, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):233–9

Bovine olfactory cilia preparation: thiol-modulated odorant-sensitive adenylyl cyclase. Lazard D, et al. **Biochim Biophys Acta** 1989 Sep 4;1013(1):68–72

Structure of the alpha-, beta-, and gamma-heavy chains of 22 S outer arm dynein obtained from Tetrahymena cilia. Marchese-Ragona SP, et al. **J Biol Chem** 1989 Dec 15; 264(35):21361–8

Olfactory adenylyl cyclase. Identification and purification of a novel enzyme form. Pfeuffer E, et al. **J Biol Chem** 1989 Nov 5;264(31):18803–7

IMMUNOLOGY

Identification of a group of novel membrane proteins unique to chemosensory cilia of olfactory receptor cells. Anholt RR, et al. **Biochemistry** 1990 Apr 3;29(13):3366–73

METABOLISM

Molecular cloning and expression of sea urchin embryonic ciliary dynein beta heavy chain. Foltz KR, et al. **Cell Motil Cytoskeleton** 1990;16(1):33–46

PATHOLOGY

Lack of cilia and squamous metaplasia in upper respiratory tract biopsies from children. Phillips JI. **S Afr Med J** 1989 Oct 7;76(7):355–7

PHYSIOLOGY

Ciliogenesis and coordinated ciliary beating in human nasal epithelial cells cultured in vitro. Jorissen M, et al. **Acta Otorhinolaryngol Belg** 1989;43(1):67–73

Angiotensin II stimulates airway ciliary motility in rabbit cultured tracheal epithelium. Kobayashi K, et al. **Acta Physiol Scand** 1990 Apr;138(4):497–502

Single unit recording from olfactory cilia. Frings S, et al. **Biophys J** 1990 May;57(5):1091–4

Stimulus-response coupling in mammalian ciliated cells. Demonstration of two mechanisms of control for cytosolic [Ca2+] Villalón M, et al. **Biophys J** 1989 Dec;56(6):1255–8

Characterization of metachronal wave in beating cilia: distribution of phases in space. Ovadyahu D, et al. **Biorheology** 1989;26(4):677–85

On self synchronization—aspects of flagellar and ciliary beating. Priel Z, et al. **Biorheology** 1990;27(2):125–34

On metachronism in ciliary systems: a model describing the dependence of the metachronal wave properties on the intrinsic ciliary parameters. Gheber L, et al. **Cell Motil Cytoskeleton** 1990;16(3):167–81

Comparative physiology of ciliary functions. Proceedings of a symposium of the 2d International Congress of Comparative Physiology and Biochemistry. Baton Rouge, Louisiana, August, 1988. **Comp Biochem Physiol [A]** 1989; 94(2):345–94

Adaptations of ciliary systems for the propulsion of water and mucus. Sleigh MA. **Comp Biochem Physiol [A]** 1989; 94(2):359–64 (22 ref.)

Cilia, flagella and the basal apparatus. Goodenough UW. **Curr Opin Cell Biol** 1989 Feb;1(1):58–62 (27 ref.)

Rapid activation of alternative second messenger pathways in olfactory cilia from rats by different odorants. Boekhoff I, et al. **EMBO J** 1990 Aug;9(8):2453–8

Biophysical models of ciliary activity: Gaussian frequency distributions. Thyberg P, et al. **Eur Biophys J** 1990; 18(2):85–91

Phosphorothioate analogs of ATP as the substrates of dynein and ciliary or flagellar movement. Shimizu T, et al. **Eur J Biochem** 1990 Aug 17;191(3):543–50

Pathophysiology of the ciliated epithelium of the respiratory mucosa in humans. Disorders of ciliogenesis. Stockinger L, et al. **Exp Lung Res** 1989 Dec;15(6):925–41

Mucociliary interaction in vitro: effects of physiological and inflammatory stimuli. Seybold ZV, et al. **J Appl Physiol** 1990 Apr;68(4):1421–6

Immunocytochemical study of the formation of striated rootlets during ciliogenesis in quail oviduct. Lemullois M, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):423–32

The effect of some preservatives used in nasal preparations on the mucus and ciliary components of mucociliary clearance. Batts AH, et al. **J Pharm Pharmacol** 1990 Mar; 42(3):145–51

Properties of an excitable dynein model for bend propagation in cilia and flagella. Murase M, et al. **J Theor Biol** 1989 Aug 9;139(3):413–30

Corticotropin-releasing factor and adrenocorticotropin stimulate ciliary motility in rabbit tracheal epithelium. Kobayashi K, et al. **Life Sci** 1989;45(21):2043–9

Effect of Klebsiella ozaenae on ciliary activity in vitro: implications in the pathogenesis of atrophic rhinitis. Ferguson JL, et al. **Otolaryngol Head Neck Surg** 1990 Mar; 102(3):207–11

Inhibition and recovery of mammalian respiratory ciliary function after formaldehyde exposure. Hastie AT, et al. **Toxicol Appl Pharmacol** 1990 Feb;102(2):282–91

[The saccharin test in the pediatric broncho-pneumonologic outpatient clinic. A noninvasive screening method for the assessment of ciliary function of the respiratory tract in children] Klingbeil P, et al. **Kinderarztl Prax** 1990 Apr; 58(4):205–10 (Eng. Abstr.) **(Ger)**

[Molecular mechanism of flagellar and ciliary movements] Inaba K, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1505–12 **(Jpn)**

[The mechanism of the dynein ATPase reaction and its implication to the ciliary motility] Shimizu T. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1487–94 **(Jpn)**

[A method for recording the motor activity of the cilia of ciliated epithelium] Karpenko AA, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):337–40 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Ciliated cells in the cardiac gland of the human stomach. Evidence of metaplastic change. Torikata C, et al. **Acta Pathol Jpn** 1989 Jun;39(6):388–92

Detached ciliary tufts. Comparison with intestinal protozoa and a review of the literature. Ashfaq-Drewett R, et al. **Am J Clin Pathol** 1990 Apr;93(4):541–5 (32 ref.)

Primary cilia associated with striated rootlets in granulated and folliculo-stellate cells of the avian adenohypophysis. Harrisson F. **Anat Embryol (Berl)** 1989;180(6):543–7

The preservation and regeneration of cilia on human nasal epithelial cells cultured in vitro. Jorissen M, et al. **Arch Otorhinolaryngol** 1989;246(5):308–14

Organization of actin microfilaments in the apical border of oviduct ciliated cells. Chailley B, et al. **Biol Cell** 1989; 67(1):81–90

Detection of circular forms of eliminated DNA during macronuclear development in E. crassus. Tausta SL, et al.

Cell 1989 Dec 22;59(6):1019–26

Splitting the ciliary axoneme: implications for a "switch-point" model of dynein arm activity in ciliary motion. Satir P, et al. **Cell Motil Cytoskeleton** 1989; 14(3):345–58

The role of axonemal components in ciliary motility. Satir P. **Comp Biochem Physiol [A]** 1989;94(2):351–7 (50 ref.)

Ciliary orientation in the "immotile cilia" syndrome. Rautiainen M, et al. **Eur Arch Otorhinolaryngol** 1990; 247(2):100–3

Ciliary microtubule capping structures contain a mammalian kinetochore antigen. Miller JM, et al. **J Cell Biol** 1990 Mar; 110(3):703–14

Preliminary biochemical characterization of the stereocilia and cuticular plate of hair cells of the chick cochlea. Tilney MS, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1711–23

Retention of ciliary ninefold structure after removal of microtubules. Stephens RE, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):391–402

Quantal tektin synthesis and ciliary length in sea-urchin embryos. Stephens RE. **J Cell Sci** 1989 Mar;92 (Pt 3):403–13

Extracellular ciliary axonemes associated with the surface of smooth muscle cells of ctenophores. Tamm S, et al. **J Cell Sci** 1989 Dec;94 (Pt 4):713–24

Flagellar cells and ciliary cells in the renal tubule of elasmobranchs. Lacy ER, et al. **J Exp Zool Suppl** 1989; 2:186–92

The ciliary necklace—a transmission electron microscopic study using tannic acid-containing fixation. Torikata C. **J Ultrastruct Mol Struct Res** 1988 Nov–Dec;101(2–3):210–4

The effect of Hexabrix tracheobronchography on the ultrastructure of the airway epithelium. Konrádová V, et al. **Pediatr Radiol** 1990;20(6):440–3

Genetic approaches to ciliate pattern formation: from self-assembly to morphogenesis. Jerka-Dziadosz M, et al. **Trends Genet** 1990 Feb;6(2):41–5 (37 ref.)

[Immotile cilia syndrome—ultrastructural deviations of the nasal cilia] Byloos J, et al. **Acta Otorhinolaryngol Belg** 1989; 43(5):515–21 (Eng. Abstr.) (Dut)

[Are ciliary abnormalities always present in Kartagener's syndrome? A study of 16 patients] Escudier E, et al. **Ann Otolaryngol Chir Cervicofac** 1989;106(6):302–5 (Eng. Abstr.) (Fre)

[Primary ciliary dyskinesia syndrome. Ultrastructural observations in a pair of twins] Markmann HU, et al. **Pathologe** 1990 Mar;11(2):80–4 (Ger)

CILIARY BODY

Cobalt-60 plaque radiotherapy vs enucleation for posterior uveal melanoma. Augsburger JJ, et al. **Am J Ophthalmol** 1990 May 15;109(5):585–92

Angle closure glaucoma due to iris and ciliary body cysts. Thomas R, et al. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):317–9

Mucinous adenocarcinoma metastatic to the iris, ciliary body, and choroid. Lieb WE, et al. **Br J Ophthalmol** 1990 Jun; 74(6):373–6

Medullo epithelioma (diktyoma). Bhople KS. **Indian J Ophthalmol** 1989 Apr–Jun;37(2):101–2

Ciliary body melanoma treated with helium particle irradiation. Decker M, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug;19(2):243–7

The electro-oculogram as an aid in the diagnosis of uveal melanoma. Brink H, et al. **Int Ophthalmol** 1989 Sep; 13(5):305–9

Eye screening for adult PA-JRA not cost effective [letter; comment] Leak AM, et al. **J Rheumatol** 1990 May; 17(5):724–5 Comment on: J Rheumatol 1988 Dec;15(12):1865–7.

Heterotopic bone formation in the ciliary body of an aged guinea pig. Brooks DE, et al. **Lab Anim Sci** 1990 Jan; 40(1):88–90

[Neovascular glaucoma: an uncommon manifestation of melanoma of the ciliary body] Ducasse A, et al. **Bull Soc Ophtalmol Fr** 1990 Jan;90(1):95–6 (Eng. Abstr.) (Fre)

[Evaluation of 100 melanomas of the choroid and ciliary body treated by application of ruthenium (RU 106 Rh 106)] Grange JD, et al. **Bull Soc Ophtalmol Fr** 1989 May; 89(5):679–82 (Eng. Abstr.) (Fre)

[A case of exteriorized malignant ciliochoroidal melanoma in a negroid patient] Korobelnik JF, et al. **J Fr Ophtalmol** 1989;12(3):236–8 (11 ref.) (Fre)

[The role of beta-ray therapy in the treatment of choroidal and ciliary body melanomas] Grange JD, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):175–9 (Eng. Abstr.) (Fre)

[Traumatic myopia due to ciliary body detachment] Kraus E, et al. **Harefuah** 1989 Oct;117(7–8):191–2 (Eng. Abstr.) (Heb)

[The role of lysosomal enzymes in the pathogenesis of ciliochoroidal detachment] Stroev EA, et al. **Oftalmol Zh** 1989;(7):414–6 (Eng. Abstr.) (Rus)

[Practical value of preventive posterior sclerectomy in trabeculectomy] Babushkin AE, et al. **Vestn Oftalmol** 1990 Mar–Apr;106(2):6–7 (Eng. Abstr.) (Rus)

[Metastasis of adenocarcinoma in the ocular anterior segment (letter)] Barbé F, et al. **Med Clin (Barc)** 1990 Apr 7; 94(13):517 (Spa)

ANALYSIS

G protein complement of SV40-transformed ciliary epithelial cells. Cooper HS, et al. **Curr Eye Res** 1990 May;9(5):493–9

Estimation of DNA content in uveal melanomas by flow cytometry. Rennie IG, et al. **Eye** 1989;3 (Pt 5):611–7

Prostaglandin E2 binding sites in bovine iris-ciliary body. Bhattacherjee P, et al. **Invest Ophthalmol Vis Sci** 1990 Jun; 31(6):1109–13

M3-muscarinic receptor subtype predominates in the bovine iris sphincter smooth muscle and ciliary processes. Honkanen RE, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):590–3

ANATOMY & HISTOLOGY

The elastic tissue of Bruch's membrane. Connections to choroidal elastic tissue and the ciliary epithelium of the rabbit and human eyes. Korte GE, et al. **Arch Ophthalmol** 1989 Nov;107(11):1654–8

[Regional differences in the ciliary body of cattle. An electron microscopy and histochemical study] Eichhorn M, et al. **Fortschr Ophthalmol** 1990;87(3):241–6 (Eng. Abstr.) (Ger)

[Morphometric analysis of age-dependent changes of the human ciliary body] Schlötzer-Schrehardt U, et al. **Fortschr Ophthalmol** 1990;87(1):59–68 (Eng. Abstr.) (Ger)

BLOOD SUPPLY

Ciliary vasoconstriction after topical adrenergic drugs. Van Buskirk EM, et al. **Am J Ophthalmol** 1990 May 15; 109(5):511–7

Long posterior ciliary arterial blood flow and systemic blood pressure. Okubo H, et al. **Invest Ophthalmol Vis Sci** 1990 May;31(5):819–26

Abnormally distributed branches of the retinal vessels, enlarged macular arteries and long cilioretinal arteries. Hayasaka S, et al. **Ophthalmologica** 1990;200(4):194–7

Replication of ciliary vasomotor effects with controlled intravascular corrosion casting. Van Buskirk EM, et al. **Trans Am Ophthalmol Soc** 1990;87:125–40; discussion 140–2

[Electron microscopy of the angioarchitecture of the human iris and ciliary body] Zhang HR, et al. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):148–51 (Eng. Abstr.) (Chi)

[Change in the permeability of the blood-aqueous humor barrier in sulcus-fixed posterior capsule lenses] Becker HU, et al. **Fortschr Ophthalmol** 1989;86(6):550–3 (Eng. Abstr.) (Ger)

[Intraocular pressure and ocular hemodynamics following oculopression with and without added retrobulbar anesthesia] Hessemer V, et al. **Fortschr Ophthalmol** 1989; 86(6):767–72 (Eng. Abstr.) (Ger)

[Ulrich oculo-oscillodynamography in carotid artery stenosis and temporal arteritis] Hofmann H, et al. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):172–3 (Eng. Abstr.) (Ger)

[Monocular near-point accommodation and the blood supply to the ciliary body of the amblyopic eye in schoolchildren with concomitant strabismus] Adigezalova-Polchaeva KA, et al. **Oftalmol Zh** 1989;(6):346–9 (Eng. Abstr.) (Rus)

CYTOLOGY

Volume regulation of cultured, transformed, non-pigmented epithelial cells from human ciliary body. Yantorno RE, et al. **Exp Eye Res** 1989 Sep;49(3):423–37

Interactions of cultured rat synovial and ocular ciliary body cells with two strains of Mycoplasma arthritidis. Thirkill CE, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):140–6

[Proliferation and differentiation in the development of myoneural tissue in birds] Danilov RK, et al. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):56–62 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Effects of adrenergic drugs on intracellular electrical potential difference of rabbit ciliary epithelial cells. Chu TC, et al. **Curr Eye Res** 1990 Jan;9(1):1–9

Muscarinic cholinergic inhibition of adenylate cyclase in the rabbit iris-ciliary body and ciliary epithelium. Jumblatt JE, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1103–8

Glutathione conjugation of methazolamide and subsequent reactions in the ciliary body in vitro. Kishida K, et al. **J Pharm Sci** 1990 Jul;79(7):638–42

[Trigeminal-related peptides and mammalian intraocular muscles] Suzuki R, et al. **Nippon Ganka Gakkai Zasshi** 1989 Apr;93(4):484–8 (Eng. Abstr.) (Jpn)

EMBRYOLOGY

Acetylcholinesterase activity as a marker for the development of the ciliary epithelium in the chicken embryo. Reichman EF, et al. **Exp Eye Res** 1990 Sep; 51(3):249–55

[Light and electron microscopy studies of the development of the human ciliary body] Sellheyer K, et al. **Fortschr Ophthalmol** 1989;86(4):392–8 (Eng. Abstr.) (Ger)

ENZYMOLOGY

Inhibitory effects of clonidine and dopamine on adenylate cyclase of rabbit ciliary processes. Cepelík J, et al. **Curr Eye Res** 1990 Feb;9(2):111–20

Inhibitory effects of neuropeptide Y on adenylate cyclase of rabbit ciliary processes. Cepelík J, et al. **Curr Eye Res** 1990 Feb;9(2):121–8

Purification of aldehyde oxidase from bovine ciliary body. Shimada S, et al. **Curr Eye Res** 1989 Jul;8(7):721–6

Ciliary muscle choline acetyltransferase and acetylcholinesterase after ciliary ganglionectomy. Erickson-Lamy KA, et al. **Exp Eye Res** 1990 Sep; 51(3):295–9

Regional differences in the morphology and enzyme distribution of the spiny dogfish (Squalus acanthias) ciliary epithelium. Flügel C, et al. **Exp Eye Res** 1989 Dec; 49(6):1097–114

Regulation of protein phosphorylation in ocular ciliary epithelial cells by A, C and Ca2+/calmodulin-dependent protein kinases. Lopez-Briones LG, et al. **Exp Eye Res** 1990 Sep;51(3):277–86

Non-selenium glutathione peroxidase without glutathione S-transferase activity from bovine ciliary body. Shichi H, et al. **Exp Eye Res** 1990 May;50(5):513–20

Localization of angiotensin converting enzyme in the ciliary epithelium of the rat eye. Strittmatter SM, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2209–14

Cellular distribution and differential gene expression of the three alpha subunit isoforms of the Na,K-ATPase in the ocular ciliary epithelium. Ghosh S, et al. **J Biol Chem** 1990 Feb 15;265(5):2935–40

Expression of Na,K-ATPase alpha subunit isoforms in the human ciliary body and cultured ciliary epithelial cells. Martin-Vasallo P, et al. **J Cell Physiol** 1989 Nov; 141(2):243–52

Inhibition of adenylate cyclase in bovine ciliary process and rabbit iris ciliary body to alpha 2-adrenergic agonists. Jin Y, et al. **J Ocul Pharmacol** 1989 Fall;5(3):189–97

[Carbonic anhydrase and its function in ion transport in cultivated pigmented ciliary body epithelial cells] Helbig H, et al. **Fortschr Ophthalmol** 1989;86(5):474–7 (Eng. Abstr.) (Ger)

IMMUNOLOGY

Immunohistochemical investigation of the distribution of immunoglobulins G, A and M within the anterior uvea of the normal equine eye. Matthews AG. **Equine Vet J** 1989 Nov;21(6):438–41

INNERVATION

Effect of timolol on the amplitude and dynamics of accommodation. Weber J, et al. **Doc Ophthalmol** 1989 Aug; 72(3–4):41–7

Ciliary neuromuscular morphology in cynomolgus monkeys after ciliary ganglionectomy. Rohen JW, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):49–54

Inhibitory effects of neuropeptide Y on sympathetic neurotransmission in the rabbit iris-ciliary body. Ohia SE, et al. **Neurochem Res** 1990 Mar;15(3):251–6

METABOLISM

Type-VI collagen in the human iris and ciliary body. Rittig M, et al. **Cell Tissue Res** 1990 Feb;259(2):305–12

Neuropeptide Y and somatostatin inhibit stimulated cyclic AMP production in rabbit ciliary processes. Bausher LP, et al. **Curr Eye Res** 1990 Apr;9(4):371–8

Bicarbonate and DIDS effects on intracellular potential difference in rabbit ciliary epithelium. Chu TC, et al. **Curr Eye Res** 1990 Mar;9(3):233–9

Coupling of 22Na and 36Cl uptake in cultured pigmented ciliary epithelial cells: a proposed role for the isoenzymes of carbonic anhydrase. Helbig H, et al. **Curr Eye Res** 1989 Nov;8(11):1111–9

Angiotensin II receptors labelled with 125I-[Sar1, Ile8]-AII in albino rabbit ocular tissues. Mallorga P, et al. **Curr Eye Res** 1989 Aug;8(8):841–9

Characterization of unique ADTN-catecholamine binding sites in the iris root-ciliary body of rabbits. Rohde BH, et al. **Curr Eye Res** 1989 Dec;8(12):1225–31

Neuropeptide Y modulates adenylate cyclase in the rabbit iris ciliary body and ciliary epithelium. Jumblatt JE, et al. **Exp Eye Res** 1990 Aug;51(2):229–31

Glutathione-dependent detoxification of peroxide in bovine ciliary body. Shichi H. **Exp Eye Res** 1990 Jun;50(6):813–8

Angiotensin binding sites in rabbit anterior uvea and human ciliary epithelial cells. Lin C, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):147–52

Binding of timolol to iris-ciliary body and melanin: an in vitro model for assessing the kinetics and efficacy of long-acting antiglaucoma drugs. Menon IA, et al. **J Ocul Pharmacol** 1989 Winter;5(4):313–24

Histochemical observation of distribution of chloride ion around ciliary epithelium. Yamashita H, et al. **Jpn J Ophthalmol** 1989;33(4):413–7

Prostaglandins and transepithelial ionic transport. Candia OA, et al. **Prog Clin Biol Res** 1989;312:149–54 (26 ref.)

Signal transduction systems for prostaglandins in the iris and ciliary body. Mittag TW. **Prog Clin Biol Res** 1989; 312:139–48 (11 ref.)

PATHOLOGY

Retinal detachment with breaks in the pars plicata of the

ciliary body [published erratum appears in Am J Ophthalmol 1989 Dec 15;108(6):752] Iijima Y, et al. **Am J Ophthalmol** 1989 Oct 15;108(4):349–55

Photoreceptor cell differentiation in intraocular medulloepithelioma: an immunohistopathologic study. Desai VN, et al. **Arch Ophthalmol** 1990 Apr;108(4):481–2

Marrow embolus to posterior ciliary vessel. Kalina PH, et al. **Arch Pathol Lab Med** 1990 Sep;114(9):979–80

Endotoxin–induced production of inflammatory mediators by cultured ciliary epithelial cells. Helbig H, et al. **Curr Eye Res** 1990 May;9(5):501–5

Pigmentary dispersion syndrome subsequent IOL implantation in P.C. Pignalosa B, et al. **Doc Ophthalmol** 1989 Nov;73(3):231–4

Early tissue response to transscleral neodymium: YAG cyclophotocoagulation. Blasini M, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1114–8

Silicone oil tamponade in the management of severe hemorrhagic detachment of the choroid and ciliary body after surgical trauma. Alexandridis E. **Ophthalmologica** 1990;200(4):189–93

Surgical management of the idiopathic uveal effusion syndrome. Johnson MW, et al. **Ophthalmology** 1990 Jun; 97(6):778–85

Glioneuroma associated with colobomatous dysplasia of the anterior uvea and retina. A case simulating medulloepithelioma. Kivelä T, et al. **Ophthalmology** 1989 Dec;96(12):1799–808

[Ciliary body changes associate with aldose reductase in galactosemic rats] Ikebe H, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jul;93(7):758–62 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Role of HCO3– in regulation of cytoplasmic pH in ciliary epithelial cells. Helbig H, et al. **Am J Physiol** 1989 Oct; 257(4 Pt 1):C696–705

In vivo videography of the rhesus monkey accommodative apparatus. Age–related loss of ciliary muscle response to central stimulation. Neider MW, et al. **Arch Ophthalmol** 1990 Jan;108(1):69–74

Reproducible stimulation of ciliary muscle contraction in the cynomolgus monkey via a permanent indwelling midbrain electrode. Crawford K, et al. **Brain Res** 1989 Dec 4; 503(2):265–72

Intracellular voltage recordings in bovine non–pigmented ciliary epithelial cells in primary culture. Helbig H, et al. **Curr Eye Res** 1989 Aug;8(8):793–800

Effects of inhibition of angiotensin converting enzyme and carbonic anhydrase on fluid production by ciliary process, choroid plexus, and pancreas. Vogh BP, et al. **J Ocul Pharmacol** 1989 Winter;5(4):303–11

Voltage–activated currents recorded from rabbit pigmented ciliary body epithelial cells in culture. Fain GL, et al. **J Physiol (Lond)** 1989 Nov;418:83–103

Regulation of arachidonate release, prostaglandin synthesis, and sphincter constriction in the mammalian iris–ciliary body. Abdel–Latif AA. **Prog Clin Biol Res** 1989;312:53–72 (52 ref.)

PHYSIOPATHOLOGY

[Accommodative hyperemia of the ciliary body as one of the pathogenetic factors in myopia] Sergienko NM, et al. **Oftalmol Zh** 1989;(8):474–6 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Relative survival rates after alternative therapies for uveal melanoma. Seddon JM, et al. **Ophthalmology** 1990 Jun; 97(6):769–77

RADIOGRAPHY

Ciliary body melanoma with optic nerve invasion. al–Haddad S, et al. **Br J Ophthalmol** 1990 Feb;74(2):123–4

SECRETION

Potentiation of norepinephrine secretion by angiotensin II in the isolate rabbit iris–ciliary body. Jumblatt JE, et al. **Curr Eye Res** 1990 Feb;9(2):169–76

SURGERY

A contact lens for transscleral Nd:YAG cyclophotocoagulation. Shields MB, et al. **Am J Ophthalmol** 1989 Oct 15;108(4):457–8

Comparison of transscleral neodymium:YAG cyclophotocoagulation with and without a contact lens in human autopsy eyes. Simmons RB, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):174–9

Probe placement and power levels in contact transscleral neodymium:YAG cyclophotocoagulation. Allingham RR, et al. **Arch Ophthalmol** 1990 May;108(5):738–42

Simplified technique for suturing dislocated posterior chamber intraocular lens to the ciliary sulcus [letter] Anand R, et al. **Arch Ophthalmol** 1990 Sep;108(9):1205–6

Probe placement and energy levels in continuous wave neodymium–YAG contact transscleral cyclophotocoagulation. Brancato R, et al. **Arch Ophthalmol** 1990 May;108(5):679–83

Experimental use of semiconductor diode laser in contact transscleral cyclophotocoagulation in rabbits. Schuman JS, et al. **Arch Ophthalmol** 1990 Aug;108(8):1152–7

Cyclocryotherapy: a review of cases over a 10–year period. Benson MT, et al. **Br J Ophthalmol** 1990 Feb;74(2):103–5

Laser cyclophotocoagulation. Schuman JS, et al. **Int Ophthalmol Clin** 1990 Spring;30(2):111–9 (54 ref.)

One year follow–up of IOGEL intraocular lenses with ciliary sulcus fixation. Bucher PJ, et al. **J Cataract Refract Surg** 1989 Nov;15(6):635–9

Use of a reversed optic lens [letter; comment] Fechner PU. **J Cataract Refract Surg** 1990 May;16(3):387 Comment on: J Cataract Refract Surg 1990 Jan;16(1):123–8.

Secondary lens implantation with sulcus fixation in intracapsular aphakes. Traykovski A. **J Cataract Refract Surg** 1990 May;16(3):367–8

Outflow of aqueous humor following cyclodialysis or ciliochoroidal detachment in rabbit. Joo SH, et al. **Korean J Ophthalmol** 1989 Dec;3(2):65–9

Transscleral cyclophotocoagulation using a contact laser probe: a histologic and clinical study in rabbits. Latina MA, et al. **Lasers Surg Med** 1989;9(5):465–70

Posterior chamber lens placement [letter] Bullwinkel GA Jr. **Ophthalmic Surg** 1990 Apr;21(4):300

Ciliary sulcus reconstruction for posterior implantation in the absence of an intact posterior capsule. Dahan E, et al. **Ophthalmic Surg** 1989 Nov;20(11):776–80

Transscleral fixation of posterior chamber intraocular lenses in the absence of capsular support. Lindquist TD, et al. **Ophthalmic Surg** 1989 Nov;20(11):769–75

Ciliary sulcus suturing of a posterior chamber intraocular lens. Nabors G, et al. **Ophthalmic Surg** 1990 Apr; 21(4):263–5

Surgical repair of a traumatic cyclodialysis cleft after laser failure [letter] Spiegel D, et al. **Ophthalmic Surg** 1990 May; 21(5):372–3

Thermal side reactions during in vitro contact cyclophotocoagulation with the continuous wave Nd:YAG laser. Stolzenburg S, et al. **Ophthalmic Surg** 1990 May; 21(5):356–8

The long–term outcome of patients undergoing iridocyclectomy. Memmen JE, et al. **Ophthalmology** 1990 Apr;97(4):429–32

Contact transscleral continuous wave neodymium:YAG laser cyclophotocoagulation. Schuman JS, et al. **Ophthalmology** 1990 May;97(5):571–80

[Cyclocryotherapy in the treatment of glaucoma] Li JZ. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):98–101 (Eng. Abstr.) **(Chi)**

[Clinical results following cyclo–cryocoagulation with a nitrogen cooled probe] Böhnke M, et al. **Fortschr Ophthalmol** 1990;87(2):134–7 (Eng. Abstr.) **(Ger)**

[Mesectodermal leiomyoma of the ciliary body—clinical aspects, surgery and immunohistochemistry] Burk RO, et al. **Fortschr Ophthalmol** 1989;86(6):631–5 (Eng. Abstr.) **(Ger)**

[Direct cyclopexy in cyclodialysis with persistent hypotony syndrome] Küchle M, et al. **Fortschr Ophthalmol** 1990; 87(3):247–51 (Eng. Abstr.) **(Ger)**

[Cyclophotocoagulation with the Nd:YAG–laser] Robert Y, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):384–6 (Eng. Abstr.) **(Ger)**

[Our observations concerning the use of low temperature in the treatment of glaucoma] Gerkowicz K, et al. **Klin Oczna** 1989 Jun;91(6):169–70 (Eng. Abstr.) **(Pol)**

[Repeated anti–glaucoma filtering surgery (review of the literature)] Babushkin AE. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):74–8 (33 ref.) **(Rus)**

[New reconstructive surgery in traumatic detachment of the ciliary body with recession of the angle of the anterior chamber] Begliarbekian VN. **Vestn Oftalmol** 1990 Mar–Apr;106(2):14–6 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Internalized gap junctions in ciliary epithelium of rabbit and rat. A transmission electron–microscopic study. Tenkova T, et al. **Cell Tissue Res** 1990 Jul;261(1):205–10

Mechanically stripped pigmented and non–pigmented epithelium of the shark ciliary body: morphology and transepithelial electrical properties. Wiederholt M, et al. **Exp Eye Res** 1989 Dec;49(6):1031–43

Desmosomal–mitochondrial complexes in human nonpigmented ciliary and retinal pigment epithelia. Schlötzer–Schrehardt U, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):664–9

Pleomorphic adenocarcinoma of the ciliary body. Immunohistochemical and electron microscopic features. Grossniklaus HE, et al. **Ophthalmology** 1990 Jun; 97(6):763–8 (17 ref.)

Pars plicata in equine recurrent uveitis. Cooley PL, et al. **Vet Pathol** 1990 Mar;27(2):138–40

[Morphological study of the disruption of the blood–aqueous barrier following paracentesis] Kubota T, et al. **Nippon Ganka Gakkai Zasshi** 1990 Mar;94(3):243–9 (Eng. Abstr.) **(Jpn)**

CILIARY MOTILITY DISORDERS

Physiology and pathology of the mucociliary system. Special regards to mucociliary transport in malignant lesions of the human larynx. Deitmer T. **Adv Otorhinolaryngol** 1989; 43:1–136 (479 ref.)

[Muco–ciliary clearance] Blasi A, et al. **Ann Ital Med Int** 1986 Mar;1(1):66–74 (16 ref.) (Eng. Abstr.) **(Ita)**

[A case of immotile cilia syndrome and a review of Japanese cases] Nogawa S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Apr; 27(4):505–12 (22 ref.) (Eng. Abstr.) **(Jpn)**

[The immotile cilia syndrome] Plavec G. **Vojnosanit Pregl** 1990 Jan–Feb;47(1):35–9 (38 ref.) **(Scr)**

CLASSIFICATION

Primary mucociliary transport failure: a new disease category [letter] Umeki S. **South Med J** 1990 Jul;83(7):855–6

COMPLICATIONS

Hydrocephalus, bronchiectasis, and ciliary aplasia. De Santi MM, et al. **Arch Dis Child** 1990 May;65(5):543–4

CONGENITAL

Congenital ciliary aplasia in two siblings. A primitive disregulation of ciliogenesis? Richard S, et al. **Pathol Res Pract** 1989 Aug;185(2):181–3

DIAGNOSIS

Using a curette to collect ciliated nasal epithelium for evaluation in patients with suspected primary ciliary dyskinesia [letter] Green CG. **Pediatr Pulmonol** 1990; 9(2):131

[Primary ciliary dyskinesia; a questionnaire study of the clinical aspects] de Boode WP, et al. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2338–41 (Eng. Abstr.) **(Dut)**

[A case of primary ciliary dyskinesia simulating diffuse panbronchiolitis] Amitani R, et al. **Bull Chest Dis Res Inst Kyoto Univ** 1988 Mar;21(1–2):1–7 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Ciliary activity and pollution. Pedersen M. **Lung** 1990;168 Suppl:368–76 (70 ref.)

[Expectoration disorders in patients with chronic obstructive lung diseases] Solopov VN, et al. **Klin Med (Mosk)** 1990 May;68(5):60–5 (Eng. Abstr.) **(Rus)**

GENETICS

Immotile cilia syndrome including polysplenia, situs inversus, and extrahepatic biliary atresia. Gershoni–Baruch R, et al. **Am J Med Genet** 1989 Jul;33(3):390–3

PATHOLOGY

Ciliary orientation in the "immotile cilia" syndrome. Rautiainen M, et al. **Eur Arch Otorhinolaryngol** 1990; 247(2):100–3

Extreme asthenozoospermia and chronic respiratory disease: a new variant of the immotile cilia syndrome. Chemes HE, et al. **Int J Androl** 1990 Jun;13(3):216–22

The ciliary necklace—a transmission electron microscopic study using tannic acid–containing fixation. Torikata C. **J Ultrastruct Mol Struct Res** 1988 Nov–Dec;101(2–3):210–4

[Immotile cilia syndrome—ultrastructural deviations of the nasal cilia] Byloos J, et al. **Acta Otorhinolaryngol Belg** 1989; 43(5):515–21 (Eng. Abstr.) **(Dut)**

[The saccharin test in comparison with cytologic findings in assessing nasal mucosa function] Mladina R, et al. **HNO** 1990 Mar;38(3):102–4 (Eng. Abstr.) **(Ger)**

[Primary ciliary dyskinesia syndrome. Ultrastructural observations in a pair of twins] Markmann HU, et al. **Pathologe** 1990 Mar;11(2):80–4 **(Ger)**

[Clinical and ultrastructural study on primary ciliary dyskinesia] Amitani R, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Feb;28(2):300–7 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Mucociliary clearance from central airways in patients with excessive sputum production with and without primary ciliary dyskinesia. Baum GL, et al. **Chest** 1990 Sep; 98(3):608–12

[Measuring ciliary frequency: modification of frequency by beta–2–adrenergic drugs and calcium antagonists] Kaspar P, et al. **Wien Med Wochenschr Suppl** 1989;104:suppl 46–7 **(Ger)**

[The effect of bronchoalveolar lavage on the frequency of human bronchial cilia] Kaspar P, et al. **Wien Med Wochenschr Suppl** 1987;103:49–50 **(Ger)**

VETERINARY

Familial immotile–cilia syndrome in English springer spaniel dogs. Edwards DF, et al. **Am J Med Genet** 1989 Jul; 33(3):290–8

Suspected ciliary dysfunction in Chinese Shar Pei pups with pneumonia. Dhein CR, et al. **Am J Vet Res** 1990 Mar; 51(3):439–46

CILIATA

ANALYSIS

Differential distribution of alpha–tubulin isotypes in Euplotes eurystomus determined by confocal immunofluorescence microscopy. Olins DE, et al. **Biol Cell** 1989;66(3):235–46

CLASSIFICATION

Morphology, biometry and taxonomic position of two peritrich ciliate Protozoa found in activated sludge. Fernandez-Leborans G, et al. **Microbios** 1990; 61(247):99-120

CYTOLOGY

Asymmetrical cell division in Blepharisma japonicum: difference between daughter cells in mating-type expression. Miyake A, et al. **Exp Cell Res** 1990 Sep; 190(1):65-8

Proliferating cell nuclear antigen/cyclin in the ciliate Euplotes eurystomus: localization in the replication band and in micronuclei. Olins DE, et al. **J Cell Biol** 1989 Oct; 109(4 Pt 1):1399-410

Organization of nucleoskeleton and its relation to DNA topological organization. Bao SD, et al. **Sci China [B]** 1989 Mar;32(3):314-23

DRUG EFFECTS

Studies on synergistic toxic effects of copper and dithiocarbamate pesticides with the ciliate protozoan Colpidium campylum (Stokes). Bonnemain H, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):320-6

ENZYMOLOGY

Purification and characterization of a heterogeneous glycosylated invertase from the rumen holotrich ciliate Isotricha prostoma. Dauvrin T, et al. **Biochem J** 1989 Dec 15;264(3):721-7

Enzyme cytochemistry of the alveolar sacs and golgian-like cisternae in the ciliate Ichthyophthirius multifiliis. Lobo-da-Cunha A, et al. **J Protozool** 1990 May-Jun; 37(3):206-11

Presence of a fructose-2,6-bisphosphate-insensitive pyrophosphate: fructose-6-phosphate phosphotransferase in the anaerobic protozoa Tritrichomonas foetus, Trichomonas vaginalis and Isotricha prostoma. Mertens E, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):183-90

GENETICS

Developmentally coordinated en masse excision of a highly repetitive element in E. crassus. Jahn CL, et al. **Cell** 1989 Dec 22;59(6):1009-18

Precise excision of telomere-bearing transposons during Oxytricha fallax macronuclear development. Hunter DJ, et al. **Genes Dev** 1989 Dec;3(12B):2101-12

Internal eliminated sequences are removed prior to chromosome fragmentation during development in Euplotes crassus. Tausta SL, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):845-53

Identification of an amplification promoting DNA sequence from the hypotrichous ciliate Stylonychia lemnae. Wegner M, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8783-802

Two versions of the gene encoding the 41-kilodalton subunit of the telomere binding protein of Oxytricha nova. Hicke BJ, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1481-5

Functional evidence for an RNA template in telomerase. Shippen-Lentz D, et al. **Science** 1990 Feb 2; 247(4942):546-52

[The organization of the cortex in ciliates: an example of inheriting an acquired trait] Lwoff A. **C R Acad Sci [III]** 1990;310(4):109-11 (Eng. Abstr.) **(Fre)**

GROWTH & DEVELOPMENT

Ruminal ciliated protozoa in cattle fed finishing diets with or without supplemental fat. Towne G, et al. **J Anim Sci** 1990 Jul;68(7):2150-5

IMMUNOLOGY

Specific and common epitopes in mating pheromones of Euplotes raikovi revealed by monoclonal antibodies. Fiori PL, et al. **J Protozool** 1990 May-Jun;37(3):187-90

ISOLATION & PURIFICATION

Metopus, Cyclidium and Sonderia: ciliates enriched and cultured from sulfureta of a microbial mat community. Dyer BD. **Biosystems** 1989;23(1):41-51

Mechanism whereby holotrich ciliates are retained in the reticulo-rumen of cattle. Abe M, et al. **Br J Nutr** 1989 Nov;62(3):579-87

METABOLISM

Oxygen consumption by ruminal microorganisms: protozoal and bacterial contributions. Ellis JE, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2583-7

Identification and localization of major cortical proteins in the ciliated protozoan, Euplotes eurystomus. Williams NE, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):433-9

Calcium-dependent sodium current in the marine ciliate Euplotes vannus. Krüppel T, et al. **J Membr Biol** 1990 Jun;116(1):79-86

PHYSIOLOGY

A paper membrane filter assay for ciliate chemoattraction. Leick V, et al. **Anal Biochem** 1990 Jan;184(1):63-6

Size-selective grazing on bacteria by natural assemblages of estuarine flagellates and ciliates. Gonzalez JM, et al. **Appl Environ Microbiol** 1990 Mar;56(3):583-9

Reversal of phenol and naphthalene effects on ciliate chemoattraction. Berk SG, et al. **Bull Environ Contam Toxicol** 1990 Feb;44(2):181-8

Identification and initial characterization of an autocrine pheromone receptor in the protozoan ciliate Euplotes raikovi. Ortenzi C, et al. **J Cell Biol** 1990 Aug;111(2):607-14

Self and nonself recognition in the ciliate protozoan Euplotes. Beale G. **Trends Genet** 1990 May;6(5):137-9 (17 ref.)

Genetic approaches to ciliate pattern formation: from self-assembly to morphogenesis. Jerka-Dziadosz M, et al. **Trends Genet** 1990 Feb;6(2):41-5 (37 ref.)

ULTRASTRUCTURE

Isolated ciliary structures of Euplotes patella. Grim JN. **Exp Cell Res** 1966 Jan;41(1):206-10

Trichodinids (Ciliata: Urceolariidae) from gills of some marine fishes with the description of Trichodina zaikai sp. n. Grupcheva G, et al. **Folia Parasitol (Praha)** 1989; 36(3):193-207

Morphology and development of mirror-image doublets of Stylonychia mytilus. Shi XB, et al. **J Protozool** 1990 Jan-Feb;37(1):1-13

Morphology and development of left-handed singlets derived from mirror-image doublets of Stylonychia mytilus. Shi XB, et al. **J Protozool** 1990 Jan-Feb;37(1):14-9

CIMETIDINE

[Comparative study of the ingestion of a sodium citrate and cimetidine-citrate combination before emergency obstetrical anesthesia: effects of pH and volume of stomach contents] Jasson J, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R29 **(Fre)**

ADMINISTRATION & DOSAGE

Intragastric pH monitoring during antisecretory therapy in patient with gastrointestinal bleeding. Fiorucci S, et al. **Am J Gastroenterol** 1989 Nov;84(11):1416-20

Changes in intragastric bile acid composition in patients receiving cimetidine postoperatively. Vitale GC, et al. **Am J Surg** 1990 Jan;159(1):153-8; discussion 158-60

Single and multiple doses of oral cimetidine do not change liver blood flow in humans. Bauer LA, et al. **Clin Pharmacol Ther** 1990 Aug;48(2):195-200

Reducing meal-stimulated acid secretion versus reducing nocturnal acid secretion for healing of duodenal ulcer. Lam SK, et al. **Dig Dis Sci** 1989 Oct;34(10):1494-500

Efficacy of different doses of cimetidine in the treatment of reflux esophagitis. A review of three large, double-blind, controlled trials. Tytgat GN, et al. **Gastroenterology** 1990 Sep;99(3):629-34

Effects of cimetidine combination with cyclophosphamide in transplanted murine tumors. Khandalekar DD, et al. **Indian J Physiol Pharmacol** 1989 Jul-Sep;33(3):171-4

Overuse of H2-blockers in a nursing home [letter] Oldendorf M. **J Am Geriatr Soc** 1989 Oct;37(10):1004

Sucralfate in the short-term treatment of duodenal ulcer. A double-blind comparison with cimetidine and placebo. Khanna SS, et al. **J Assoc Physicians India** 1989 Aug; 37(8):503-5

Phase II study of coumarin and cimetidine in patients with metastatic renal cell carcinoma. Dexeus FH, et al. **J Clin Oncol** 1990 Feb;8(2):325-9

Anti-ulcer activity of procyanidins preparation of water-soluble procyanidin-cimetidine complexes. Vennat B, et al. **Pharm Acta Helv** 1989;64(11):316-20

Low-dose antacids versus 400 mg cimetidine twice daily for reflux oesophagitis. A comparative, placebo-controlled, multicentre study. Farup PG, et al. **Scand J Gastroenterol** 1990 Mar;25(3):315-20

Cimetidine tablets or suspension for the prevention of gastrointestinal mucosal lesions caused by non-steroidal, anti-inflammatory drugs. Aabakken L, et al. **Scand J Rheumatol** 1989;18(6):369-75

Use of Histodil injection in upper gastro-intestinal haemorrhages. Horváth I, et al. **Ther Hung** 1989; 37(3):160-4

[Mucosa protection--an assessable value? An experimental study in rats] Albrecht R, et al. **Gastroenterol J** 1990; 49(4):168-71 (Eng. Abstr.) **(Ger)**

[Treatment of arrhythmia in patients with chronic ischemic heart disease using kinilentin combined with an inhibitor or inductor of microsomal oxidation] Kharlamova IV, et al. **Sov Med** 1989;(12):41-4 **(Rus)**

ADVERSE EFFECTS

Drug-induced granulocytopenia with natural killer lymphocytosis after renal transplantation. Holcombe RF. **Acta Haematol (Basel)** 1990;83(2):96-8

Cimetidine induced pancytopenia. Effect on human CFU-MIX colony formation. Uyttenbroeck W, et al. **Blut** 1990 Jun;60(6):323-7

Suspected cimetidine-induced acute pancreatitis. Nott DM, et al. **Br J Clin Pract** 1989 Jul;43(7):264-5

Adverse interaction between cimetidine and chlorpromazine in two cases of chronic schizophrenia. Byrne A, et al. **Br J Psychiatry** 1989 Sep;155:413-5

Cimetidine-associated adverse reaction. Drea EJ, et al. **DICP** 1990 Jun;24(6):581-3

Premature thelarche: a possible adverse effect of cimetidine treatment. Bosman JM, et al. **Eur J Pediatr** 1990 May; 149(8):534-5

Cancer occurrence in a cohort of patients treated with cimetidine. Møller H, et al. **Gut** 1989 Nov;30(11):1558-62

Cimetidine induced psychosis [letter] Bhatia MS, et al. **Indian Pediatr** 1989 Oct;26(10):1061-2

Procainamide-cimetidine drug interaction in elderly male patients. Bauer LA, et al. **J Am Geriatr Soc** 1990 Apr; 38(4):467-9

Depression not associated with cimetidine [comment] [see comments] Antell LA, et al. **Pa Med** 1989 Nov;92(11):26, 28 Comment on: Pa Med 1989 Jul;92(7):32-3. Comment in: Pa Med 1990 Jan;93(1):80.

Drug-induced illness in the elderly [letter; comment] Antell LA, et al. **Postgrad Med** 1990 Mar;87(4):33-4, 37 Comment on: Postgrad Med 1989 Aug;86(2):245-56.

The clinical safety of omeprazole. Sölvell L. **Scand J Gastroenterol Suppl** 1989;166:106-10; discussion 111-3

The oxidative metabolism of estradiol: inhibition by cimetidine. Galbraith RA, et al. **Trans Assoc Am Physicians** 1989;102:44-54

[Neuropsychic effects of cimetidine and ranitidine. Apropos of 1 case] Ducluzeau R, et al. **J Toxicol Clin Exp** 1990 Jan-Feb;10(1):37-9 (Eng. Abstr.) **(Fre)**

[Confusion induced by the combination cimetidine-benzodiazepine; apropos of a case report] Bouden A, et al. **Tunis Med** 1990 Jan;68(1):63-4 (Eng. Abstr.) **(Fre)**

[Diffuse interstitial lung disease following the use of cimetidine in a patient with severe reflux disease of the esophagus] Höltmann BJ, et al. **Med Klin** 1989 Aug 15; 84(8):405-10 **(Ger)**

ANALOGS & DERIVATIVES

Detoxifying potential of thioproline against N-nitroso compounds, N-nitrosodimethylamine and N-nitrosocimetidine. Frank N, et al. **Cancer Lett** 1990 Apr 30;50(3):167-72

N-nitrosocimetidine as an initiator of murine skin tumors with associated H-ras oncogene activation. Anderson LM, et al. **Carcinogenesis** 1989 Nov;10(11):2009-13

Microsomally-mediated denitrosation of nitrosoguanidinium compounds. Jensen DE, et al. **Carcinogenesis** 1990 Jul; 11(7):1075-82

DIAGNOSTIC USE

Oral cimetidine improves the accuracy and precision of creatinine clearance in lupus nephritis. Roubenoff R, et al. **Ann Intern Med** 1990 Oct 1;113(7):501-6

METABOLISM

Interaction of verapamil and cimetidine: stereochemical aspects of drug metabolism, drug disposition and drug action. Mikus G, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):1042-8

PHARMACOKINETICS

Kinetics of the acid-catalyzed hydrolysis of cimetidine. Buur A, et al. **Acta Pharm Nord** 1989;1(6):337-42

Evaluation of the potential for interactions of paroxetine with diazepam, cimetidine, warfarin, and digoxin. Bannister SJ, et al. **Acta Psychiatr Scand Suppl** 1989;350:102-6

Investigation of the mechanisms of the extensive excretion of cimetidine into rat milk. Dostal LA. **Biochem Pharmacol** 1990 Jan 1;39(1):207-10

Pharmacokinetic studies of cimetidine hydrochloride in adult horses. Smyth GB, et al. **Equine Vet J** 1990 Jan;22(1):48-50

Effects on cimetidine bioavailability of metoclopramide and antacids given two hours apart. Barzaghi N, et al. **Eur J Clin Pharmacol** 1989;37(4):409-10

Pharmacokinetics and pharmacodynamics of oral and intravenous cimetidine in seriously ill patients. Sandborn WJ, et al. **J Clin Pharmacol** 1990 Jun;30(6):568-71

Excretion of high concentrations of cimetidine and ranitidine into rat milk and their effects on milk composition and mammary gland nucleic acid content. Dostal LA, et al. **Toxicol Appl Pharmacol** 1990 Mar 1;102(3):430-42

[Effect of antacids on the bioavailability and therapeutic efficacy of cimetidine] Bai G, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):520-2, 571 (Eng. Abstr.) **(Chi)**

[Biological availability of different oral cimetidine preparations in the dog] Viernstein H, et al. **Arzneimittelforschung** 1990 Jun;40(6):675-8 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Single dose oral H2-antagonists do not affect plasma lidocaine levels in the parturient. Flynn RJ, et al. **Acta Anaesthesiol Scand** 1989 Oct;33(7):593-6

The effect of cimetidine on the rat sciatic nerve-gastrocnemius muscle preparation in vivo. Bossa R, et al. **Acta Physiol Hung** 1990;75 Suppl:39-40

Effect of atropine, PGF2 alpha and cimetidine on the beta-carotene induced cytoprotection in ethanol-treated rats. Garamszegi M, et al. **Acta Physiol Hung** 1989; 73(2-3):221-4

In vitro electrophysiological effects of cimetidine,

prostaglandin E2 and acetylcholine on the rabbit gastric mucosa. Rácz I, et al. **Acta Physiol Hung** 1989; 73(2–3):159–66

Biochemical background of cimetidine-induced gastric mucosal prevention in rats treated with HCL (actions of cytoprotective and antisecretory doses). Sütö G, et al. **Acta Physiol Hung** 1990;75 Suppl:259–60

The effect of liver enzyme inhibition by cimetidine and enzyme induction by phenobarbitone on the pharmacokinetics of paroxetine. Greb WH, et al. **Acta Psychiatr Scand Suppl** 1989;350:95–8

Cimetidine increases the pancreatic response to histamine. Pariente JA, et al. **Agents Actions** 1990 Jun;30(3–4):307–12

Effect of intravenous cimetidine on lignocaine disposition during extradural caesarean section. Flynn RJ, et al. **Anaesthesia** 1989 Sep;44(9):739–41

Effects of oral cimetidine and ranitidine on gastric pH and residual volume in children. Guay J, et al. **Anesthesiology** 1989 Oct;71(4):547–9

Beta-blockers and cimetidine [letter; comment] Schwenk M. **Arch Intern Med** 1990 Jun;150(6):1348 Comment on: Arch Intern Med 1988 May;148(5):1023–38.

Biotransformation of lovastatin—III. Effect of cimetidine and famotidine on in vitro metabolism of lovastatin by rat and human liver microsomes. Vyas KP, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):67–73

Dose-related and other effects of maternal cimetidine pretreatment during lactation on drug metabolism in mouse dams and pups. Ouuide G, et al. **Biol Neonate** 1990; 57(6):367–74

Uterotropic actions of relaxin in prepubertal gilts. Hall JA, et al. **Biol Reprod** 1990 May–Jun;42(5–6):769–74

Cimetidine as modulator of the cell-mediated immune response in vivo using the tuberculin skin test as parameter. Snyman JR, et al. **Br J Clin Pharmacol** 1990 Feb; 29(2):257–60

Behavioral and metabolic aspects of cimetidine–ethanol interaction. Messiha FS. **Brain Res Bull** 1989 Oct–Nov; 23(4–5):273–6

Effects of antihistamines on phorbol ester tumor promotion and vascular permeability changes. Fischer SM, et al. **Carcinogenesis** 1990 Jun;11(6):991–6

Dissociation of cimetidine effects on inotropic and chronotropic action in cardiac anaphylaxis. Guo ZG, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Mar;10(2):140–3

Protective effects of histamine H1 and H2 antagonists, adenosine and hydrocortisone on cardiac anaphylaxis. Qiu R, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jan;10(1):34–40

Lack of effect of cimetidine on acetaminophen disposition in humans. Slattery JT, et al. **Clin Pharmacol Ther** 1989 Nov;46(5):591–7

Pharmacokinetics and pharmacodynamics of dilevalol. Tenero DM, et al. **Clin Pharmacol Ther** 1989 Dec; 46(6):648–56

The effect of cimetidine on plasma lipoproteins. Hansen CP, et al. **Dan Med Bull** 1990 Apr;37(2):195–6

Cimetidine: an immunomodulator. Kumar A. **DICP** 1990 Mar;24(3):289–95 (62 ref.)

Effect of cimetidine on oral digoxin absorption. Mouser B, et al. **DICP** 1990 Mar;24(3):286–8

Effect of cimetidine and ranitidine on the hepatic and renal elimination of nicotine in humans. Bendayan R, et al. **Eur J Clin Pharmacol** 1990;38(2):165–9

Effect of cimetidine and ranitidine on plasma theophylline in patients with chronic obstructive airways disease treated with theophylline and corticosteroids. Boehning W. **Eur J Clin Pharmacol** 1990;38(1):43–5

Cimetidine and omeprazole have different effects on hepatic extraction of lidocaine in rats. Bruck R, et al. **Gastroenterology** 1990 Sep;99(3):857–9

Effect of cimetidine and ranitidine on drug induced damage to gastric epithelial cell monolayers in vitro. Romano M, et al. **Gut** 1989 Oct;30(10):1313–22

Effects of H1 and H2 histamine receptor antagonists on positive feed-back effect of estrogen on LH in prepubertal female rats. Moguilevsky JA, et al. **Horm Metab Res** 1989 Dec;21(12):658–60

Effect of cimetidine on intestinal absorption & digestive functions in mice. Gill M, et al. **Indian J Med Res** 1990 Apr;92:109–14

A study of the effect of isoniazid and cimetidine on dark adaptation of human eye. Bhavsar VH, et al. **Indian J Physiol Pharmacol** 1990 Jan;34(1):67–9

The immunomodulatory potency of cimetidine in healthy volunteers. Brockmeyer NH, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Sep;27(9):458–62

Influence of rifampicin, phenobarbital and cimetidine on mixed function monooxygenase in extensive and poor metabolizers of debrisoquine. Leclercq V, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Dec;27(12):593–8

The effect of H2 receptor antagonists on intragastric pH in critically ill patients [letter; comment] Karlstadt RG, et al. **Intensive Care Med** 1989;15(7):479–80 Comment on: Intensive Care Med 1989;15(2):145.

Effects of endophyte-infected fescue and cimetidine on respiration rates, rectal temperatures and hepatic mixed function oxidase activity as measured by hepatic antipyrine metabolism in sheep. Zanzalari KP, et al. **J Anim Sci** 1989 Dec;67(12):3370–8

Cimetidine reduces hyperoxic lung injury in lambs. Hazinski TA, et al. **J Appl Physiol** 1989 Dec;67(6):2586–92

The effect of antacid and cimetidine on the oral absorption of the antifungal agent SCH 39304. Kosoglou T, et al. **J Clin Pharmacol** 1990 Jul;30(7):638–42

Influence of H2 receptor antagonists on the disposition of flurbiprofen enantiomers. Small RE, et al. **J Clin Pharmacol** 1990 Jul;30(7):660–4

Cimetidine-induced augmentation of allergic contact hypersensitivity reactions in mice. Belsito DV, et al. **J Invest Dermatol** 1990 Apr;94(4):441–5

Cimetidine and the immuno-response in healthy volunteers. Brockmeyer NH, et al. **J Invest Dermatol** 1989 Dec; 93(6):757–61

The inhibitory effects of cimetidine on elimination and distribution of propranolol in rats. Shibasaki S, et al. **J Pharmacobiodyn** 1989 Sep;12(9):549–57

Reduction of indomethacin induced gastroduodenal mucosal injury and gastrointestinal symptoms with cimetidine in normal subjects. Frank WO, et al. **J Rheumatol** 1989 Sep; 16(9):1249–52

The effect of cimetidine on survival of mice infected with herpes simplex virus type 2, murine encephalomyelitis virus and vesicular stomatitis virus infections. Kabuta H, et al. **Kurume Med J** 1989;36(3):95–9

Effects of famotidine at the mouse neuromuscular junction compared with those of cimetidine and ranitidine. Re L, et al. **Pharmacology** 1989;39(3):200–4

The potential difference response of the human gastric mucosa to cimetidine. Sparsø BH, et al. **Scand J Gastroenterol** 1990 Jul;25(7):676–80

Effect of cimetidine on gastric acid secretion and fractional emptying in short bowel syndrome. Murphy JP, et al. **Surg Forum** 1978;29:423–4

Effect of cimetidine on acute mortality and plasma water loss in mice with burn shock. Yoshioka T, et al. **Surg Forum** 1978;29:27–9

Induction of the rat hepatic microsomal mixed-function oxidases by cimetidine. Ioannides C, et al. **Toxicol Lett** 1989 Oct;49(1):61–8

Effects of chloramphenicol, cimetidine and phenobarbital on and tolerance to xylazine–ketamine anesthesia in dogs. Nossaman BC, et al. **Vet Hum Toxicol** 1990 Jun;32(3):216–9

[Cimetidine and creatinine clearance (letter)] Ring T. **Ugeskr Laeger** 1989 Oct 30;151(44):2901–2 **(Dan)**

[Creatinine clearance as a goal for the glomerular filtration rate (letter)] Stellfeld M, et al. **Ugeskr Laeger** 1989 Oct 30;151(44):2902 **(Dan)**

[The effect of cimetidine on pharmacokinetics of other drugs] Banditt P, et al. **Pharmazie** 1990 Jan;45(1):11–6 (81 ref.) **(Ger)**

[Cimetidine and ethanol] Papke J, et al. **Z Gesamte Inn Med** 1989 Dec 15;44(24):731–3 (Eng. Abstr.) **(Ger)**

[Potentiation of the gastro-protective effect of sulglicotide in the presence of cimetidine in the rat] Morini G. **Boll Soc Ital Biol Sper** 1989 Oct;65(10):951–8 (Eng. Abstr.) **(Ita)**

[Effects of cimetidine on plasma concentration of catecholamine and baroreflex control of heart rate in anesthetized humans] Kuramoto T, et al. **Masui** 1989 Jun; 38(6):736–40 (Eng. Abstr.) **(Jpn)**

[Effect of cimetidine on neuromuscular blockade by succinylcholine and pancuronium] Sato Y, et al. **Masui** 1990 Feb;39(2):168–73 (Eng. Abstr.) **(Jpn)**

[The effect of cimetidine to suppress the reduction of gastric mucosal blood flow caused by immobilization in water—its relationship to noradrenaline] Urakawa T, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):1959–64 (Eng. Abstr.) **(Jpn)**

[Effect of anti-ulcer drugs and PGE2 on the proliferation of rat gastric cultured cells] Uchida M, et al. **Nippon Yakurigaku Zasshi** 1990 Apr;95(4):185–90 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Pharmacists' evaluations of the nonprescription availability of metaproterenol, cimetidine, ibuprofen, and nystatin. Madhavan S, et al. **Am J Hosp Pharm** 1989 Dec; 46(12):2486–92

Implementing therapeutic interchange of intravenous famotidine for cimetidine and ranitidine. Oh T, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1547–51

Oxygen-derived free radicals and the prevention of duodenal ulcer relapse: a new approach. Salim AS. **Am J Med Sci** 1990 Jul;300(1):1–6; discussion 7–8

Is cimetidine indicated in the treatment of acute anaphylactic shock? [letter; comment] Kelly JS, et al. **Anesth Analg** 1990 Jul;71(1):104–5 Comment on: Anesth Analg 1989 Aug;69(2):264–5.

Comparison of cimetidine and diphenhydramine in the treatment of acute urticaria. Moscati RM, et al. **Ann Emerg Med** 1990 Jan;19(1):12–5

Cimetidine in eosinophilic fasciitis [letter] Herson S, et al. **Ann Intern Med** 1990 Sep 1;113(5):412–3

The effect of pentostam and cimetidine on the development of leishmaniasis (Leishmania mexicana amazonensis) and concomitant malaria (Plasmodium yoelii). Coleman RE, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):339–44

Cimetidine pretreatment and halothane hepatotoxicity [letter; comment] Brown BR Jr. **Br J Anaesth** 1990 May;64(5):650 Comment on: Br J Anaesth 1989 Nov;63(5):531–5.

Preoperative cimetidine does not prevent subclinical halothane hepatotoxicity in man [see comments] Ray DC, et al. **Br J Anaesth** 1989 Nov;63(5):531–5 Comment in: Br J Anaesth 1990 May;64(5):650.

Treatment of peptic ulcer in general practice and in hospital: a comparison of omeprazole and cimetidine. Davis RH, et al. **Br J Clin Pract** 1990 Jan;44(1):13–6

Controlled study of cimetidine in the treatment of benign prostatic hypertrophy. Lindner A, et al. **Br J Urol** 1990 Jul;66(1):55–7

Relationship between Sakita endoscopic stage and duration of treatment for duodenal ulcer healing. Mosci AS, et al. **Braz J Med Biol Res** 1989;22(10):1219–23

Prophylactic administration of histamine1 and histamine2 receptor blockers in the prevention of protamine-related haemodynamic effects. Kambam J, et al. **Can J Anaesth** 1990 May;37(4 Pt 1):420–2

Ranitidine compared to cimetidine in multiagent pharmacological treatment of porcine Pseudomonas ARDS. Byrne K, et al. **Circ Shock** 1990 Feb;30(2):117–27

Treatment of chronic erosive gastritis: a double-blind trial of pirenzepine and cimetidine. Dal Monte PR, et al. **Clin Ther** 1989 Nov–Dec;11(6):762–7

Once-daily bedtime dosing regimen of cimetidine in the treatment of gastric ulcer. Frank WO, et al. **Clin Ther** 1989 Sep–Oct;11(5):595–603

Radiation therapy of the para-aortic lymph nodes in carcinoma of the uterine cervix: the concurrent use of cimetidine to reduce acute and subacute side effects from radiation. Teshima T, et al. **Clin Ther** 1990 Jan–Feb; 12(1):71–7

Chewable cimetidine versus chewable antacid in dyspepsia: which provides faster pain relief? Parr SN. **Curr Med Res Opin** 1989;11(9):557–66

Metabolic interactions of ciprofloxacin. Ludwig E, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):135–41

Cimetidine in malignant melanoma. Timm EG, et al. **DICP** 1989 Sep;23(9):689–91

Cimetidine reduces running-associated gastrointestinal bleeding. A prospective observation. Baska RS, et al. **Dig Dis Sci** 1990 Aug;35(8):956–60

Cimetidine reduces bile acid-mediated small intestinal mucosal injury in rats in vivo. Erickson RA. **Dig Dis Sci** 1990 Jul;35(7):809–14

Double-blind comparison of cisapride and cimetidine in treatment of reflux esophagitis. Galmiche JP, et al. **Dig Dis Sci** 1990 May;35(5):649–55

Cimetidine or surgery for the Zollinger–Ellison syndrome? [letter] Fiddian-Green RG. **Gastroenterology** 1978 Jul; 75(1):163–4

Cost-effectiveness of cimetidine maintenance therapy in chronic gastric and duodenal ulcer. Pym B, et al. **Gastroenterology** 1990 Jul;99(1):27–35

Prevention of stricture formation after endoscopic sclerotherapy of esophageal varices. Snady H, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):377–80

Randomised, double blind comparison of omeprazole and cimetidine in the treatment of symptomatic gastric ulcer [see comments] Bate CM, et al. **Gut** 1989 Oct;30(10):1323–8 Comment in: Gut 1990 Apr;31(4):483.

Double blind comparison of omeprazole (40 mg od) versus cimetidine (400 mg qd) in the treatment of symptomatic erosive reflux oesophagitis, assessed endoscopically, histologically and by 24 h pH monitoring. Dehn TC, et al. **Gut** 1990 May;31(5):509–13

Controlled trial of pyrogastrone and cimetidine in the treatment of reflux oesophagitis. Maxton DG, et al. **Gut** 1990 Mar;31(3):351–4

Predictors of duodenal ulcer healing during treatment with cimetidine. Okada M, et al. **Gut** 1990 Jul;31(7):758–62

Randomised, double blind comparison of omeprazole and cimetidine in the treatment of symptomatic gastric ulcer [letter; comment] Plas J. **Gut** 1990 Apr;31(4):483 Comment on: Gut 1989 Oct;30(10):1323–8.

H2 blockers in stress ulcer prophylaxis [letter; comment] Strembo MA, et al. **Hosp Pract [Off]** 1989 Oct 30; 24(10A):17, 20 Comment on: Hosp Pract [Off] 1989 Mar 30;24(3A):59–63, 67–8.

Common variable immunodeficiency: a family study and therapeutic trial with cimetidine. Segal R, et al. **J Allergy Clin Immunol** 1989 Nov;84(5 Pt 1):753–61

Cimetidine prevents recurrent erythema multiforme major resulting from herpes simplex virus infection [letter; comment] Kürkçüoğlu N, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):814–5 Comment on: J Am Acad Dermatol 1988 Oct;19(4):762–3.

Cimetidine for treatment of melanomas in three horses [see comments] Goetz TE, et al. **J Am Vet Med Assoc** 1990 Feb 1;196(3):449–52 Comment in: J Am Vet Med Assoc 1990 Apr 15;196(8):1201–2.

Survey of H2-antagonist usage in acute upper gastrointestinal hemorrhage. Bhatt BD, et al. **J Clin Gastroenterol** 1990 Feb;12(1):14–6

A double-blind controlled study of the efficacy of cimetidine in the treatment of the cervical symptoms of gastroesophageal reflux. Kibblewhite DJ, et al. **J Otolaryngol** 1990 Apr;19(2):103–9

Cimetidine in the treatment of acute intermittent porphyria [letter] Baccino E, et al. **JAMA** 1989 Dec 1;262(21):3000

Effect of autolymphocyte therapy on survival and quality of life in patients with metastatic renal-cell carcinoma [see comments] Osband ME, et al. **Lancet** 1990 Apr 28; 335(8696):994–8 Comment in: Lancet 1990 Jul 7;336(8706):62.

Helicobacter pylori, peptic ulcer, and cimetidine [letter] Kaya

IS, et al. **Mayo Clin Proc** 1990 Sep;65(9):1274–5
Treatment of hirsutism with cimetidine. Golditch IM, et al. **Obstet Gynecol** 1990 Jun;75(6):911–3
The effect of gastronomical concentrations of ethanol on therapeutic effect of cimetidine and sucralfate in rats with chronic gastric ulcers. Małecki I, et al. **Pol J Pharmacol Pharm** 1989 May–Jun;41(3):259–62
Treatment of hormone-refractory stage D carcinoma of prostate with coumarin (1,2-benzopyrone) and cimetidine: a pilot study. Marshall ME, et al. **Prostate** 1990;17(2):95–9
Effect of oral bismuth subsalicylate on Campylobacter pylori and on healing and relapse rate of peptic ulcer. Eberhardt R, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S115–9
Rioprostil in the short-term treatment of duodenal ulcer: a multicentre double-blind trial vs. cimetidine. Bianchi Porro G, et al. **Scand J Gastroenterol Suppl** 1989;164:219–23
Histochemistry of the gastric and duodenal mucosa under cimetidine and carbenoxolone treatment. Lojda Z, et al. **Scand J Gastroenterol Suppl** 1989;167:13–5
Healing rate of duodenal ulcer with hyper-aggressive peptic activity under H2-receptor antagonists. Pippa G, et al. **Scand J Gastroenterol Suppl** 1989;167:68–70
Cimetidine prevention of gastrointestinal bleeding in severe head injury: a controlled clinical trial. Halloran LG, et al. **Surg Forum** 1978;29:428–30
Examination of the effect of histodil prophylaxis in infarction patients with inhibited haemostasis. Nagy V, et al. **Ther Hung** 1990;38(2):77–80
[Effects of ranitidine and cimetidine on ventricular fibrillation threshold and dispersion of refractory period in early myocardial ischemia] Luo XX, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 May;10(3):230–3 (Eng. Abstr.) **(Chi)**
[Prevention of aspiration pneumonia in obstetrical anesthesia with the effervescent combination of cimetidine and sodium citrate] Ormezzano X, et al. **Ann Fr Anesth Reanim** 1990; 9(3):285–8 (Eng. Abstr.) **(Fre)**
[Factors influencing the cure of duodenal ulcer in smokers treated with cimetidine (letter)] Ligny C, et al. **Gastroenterol Clin Biol** 1990;14(3):291–3 **(Fre)**
[Secretin versus cimetidine in the therapy of active bleeding from peptic gastroduodenal lesions. A prospective, randomized, double-blind, multicentric study] Tulassay Z, et al. **Wien Med Wochenschr** 1990 Jul 15;140(13):361–4 (Eng. Abstr.) **(Ger)**
[Acute stress ulcer and elective surgery. Do indications for anti-H2 prophylaxis exist?] Pintus M, et al. **Minerva Dietol Gastroenterol** 1989 Oct–Dec;35(4):215–7 (Eng. Abstr.) **(Ita)**
[Misoprostol and de-nol in the treatment of patients with cimetidine-resistant stomach ulcer] Stasiewicz J, et al. **Pol Arch Med Wewn** 1989 Jan;81(1):21–9 (Eng. Abstr.) **(Pol)**
[Effect of cimetidine and ranitidine on bronchial reactivity in patients with asthma] Hofman J, et al. **Pol Tyg Lek** 1989 Jul 3;44(27):639–41 (Eng. Abstr.) **(Pol)**
[Effectiveness of sucralfate in the treatment of gastric ulcer in women during menopause—comparison with cimetidine] Tkaczewski W, et al. **Wiad Lek** 1989 Jun 1;42(11):717–9 (Eng. Abstr.) **(Pol)**
[Effect of H2 blockers on the surgical indications for peptic ulcer] da Silva JG, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Sep–Oct; 44(5):189–92 (Eng. Abstr.) **(Por)**
[Effects of cimetidine, a H2-histamine blocker, on ulcer cicatrization processes in patients with peptic ulcer localized in the duodenal bulb] Belousov AS, et al. **Klin Med (Mosk)** 1990 Mar;68(3):96–9 **(Rus)**
[The effect of histamine H2 receptor blockaders on the proteolytic activity in patients with ulcers] Bashir BM. **Lab Delo** 1990;(4):25–7 (Eng. Abstr.) **(Rus)**
[Clinical trials of cimetidine and metronidazole in gastroduodenal ulcers] Sotto A, et al. **GEN** 1988 Jul–Sep; 42(3):103–6 (Eng. Abstr.) **(Spa)**
[Combined therapy using ranitidine and sucralfate in duodenal ulcer resistant to cimetidine] Uribarrena R, et al. **Rev Clin Esp** 1990 Apr;186(7):328–31 (Eng. Abstr.) **(Spa)**
[Intravenous cimetidine in bleeding gastroduodenal ulcer in children with or without sclerotherapy. Which is the best alternative? (letter)] Estrada Rodríguez M, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):90–1 **(Spa)**

CIMEX see **BEDBUGS**

CINANSERIN see under **CINNAMATES**

CINCAIN see **DIBUCAINE**

CINCHOCAIN see **DIBUCAINE**

CINCHONA

[Charles Ledger and the Cinchona] Janssens PG. **Verh K Acad Geneeskd Belg** 1989;51(6):535–57 (Eng. Abstr.) **(Dut)**

CINCHONA ALKALOIDS

HISTORY

[Charles Ledger and the Cinchona] Janssens PG. **Verh K Acad Geneeskd Belg** 1989;51(6):535–57 (Eng. Abstr.) **(Dut)**

PHARMACOLOGY

Effect of quinine and cinchonine on human neutrophils functions in vitro. el Benna J, et al. **J Antimicrob Chemother** 1990 Jun;25(6):949–57
A comparison of the antimalarial activity of the cinchona alkaloids against Plasmodium falciparum in vitro. Wesche DL, et al. **J Trop Med Hyg** 1990 Jun;93(3):153–9

THERAPEUTIC USE

A combination of quinine, quinidine and cinchonine (LA 40221) in the treatment of chloroquine resistant falciparum malaria in Thailand: two double-blind trials. Bunnag D, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):66
Short-term oral cinchona alkaloids regimens for treatment of falciparum malaria in Madagascar. Deloron P, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):54

CINE-CT see **TOMOGRAPHY, X-RAY COMPUTED**

CINEANGIOGRAPHY

Magnetic resonance imaging and angiography for the assessment of coarctation of the aorta. Nyman R, et al. **Acta Radiol** 1989 Sep–Oct;30(5):481–5
Histamine release following the administration of iodinated contrast media during cardiac catheterization. Negro JM, et al. **Allergol Immunopathol (Madr)** 1989 Nov–Dec; 17(6):313–6
Diagnostic accuracy of right ventriculography in arrhythmogenic right ventricular cardiomyopathy. Daliento L, et al. **Am J Cardiol** 1990 Sep 15;66(7):741–5
In vivo relation between cineangiographic jet width and jet width imaged by color-coded Doppler. Klewer SE, et al. **Am J Cardiol** 1989 Dec 1;64(19):1399–401
Left ventricular volume measurement using cardiac axis nuclear magnetic resonance imaging. Validation by calibrated ventricular angiography. Cranney GB, et al. **Circulation** 1990 Jul;82(1):154–63
Benefits and limits of selective right ventricular cineangiography in arrhythmogenic right ventricular dysplasia. Daubert C, et al. **Eur Heart J** 1989 Sep;10 Suppl D:46–8
New echocardiographic and angiographic methods for right atrial volume determination: in vitro validation and in vivo results. Lambertz H, et al. **Int J Card Imaging** 1989; 5(1):39–51
Digital flashing tomosynthesis (DFTS)—a technique for three-dimensional coronary angiography. Stiel GM, et al. **Int J Card Imaging** 1989;5(1):53–61
Automatic detection method of stenotic lesions in coronary cineangiograms. Sugahara T, et al. **Int J Card Imaging** 1989; 5(1):17–23
Measurement of distensibility of blood vessels using cineangiograms. Sugahara T, et al. **Invest Radiol** 1989 Sep; 24(9):672–7
Abnormal diastolic flow patterns in hypertrophic cardiomyopathy: evaluation by simultaneous Doppler echocardiography, cineangiography, and hemodynamics. Silverman PR, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct; 2(5):346–9
[Comparisons of images simultaneously documented by digital subtraction coronary arteriography and cine coronary arteriography] Kimura K, et al. **J Cardiol** 1988 Dec;18(4):889–97 (Eng. Abstr.) **(Jpn)**
[Left ventricular wall thickness in hypertrophic cardiomyopathy: comparisons of measurements by magnetic resonance imaging, cineangiography, and echocardiography] Matsuda T, et al. **J Cardiol** 1988 Dec; 18(4):1033–41 (Eng. Abstr.) **(Jpn)**
[Digital image process basic technology for measurement of vessel diameter using cineangiograms] Yanagihara Y, et al. **Kokyu To Junkan** 1990 May;38(5):431–4 **(Jpn)**
[Accuracy of detecting stenotic changes on coronary cineangiograms using computer image processing] Sugahara T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 May 25; 50(5):533–8 (Eng. Abstr.) **(Jpn)**
[Hemodynamic profile of patients with normal coronary cineangiography] Romão N, et al. **Arq Bras Cardiol** 1989 Jul;53(1):15–8 (Eng. Abstr.) **(Por)**
[Cineangiographic diagnosis of an aneurysm of the membranous part of the heart septum] Lazarev SM, et al. **Vestn Rentgenol Radiol** 1989 Sep–Oct;(5):50–4 (Eng. Abstr.) **(Rus)**
[A comparative evaluation of cinecoronarography and digital subtraction coronarography] Savchenko AP, et al. **Vestn Rentgenol Radiol** 1989 Sep–Oct;(5):55–8 (Eng. Abstr.) **(Rus)**
[Intravenous digital subtraction ventriculography: technical and methodologic aspects, a comparison with cineventriculography] Shtern SV, et al. **Vestn Rentgenol Radiol** 1990 Jan–Feb;(1):12–6 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

Isn't it time to abandon cine film? Holmes DR Jr, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):1–4
[Methods of digital image processing in angio- and cardiography] Kamm KF. **Biomed Tech (Berlin)** 1989;34 Suppl:44–5 **(Ger)**
[Computer-assisted contour detection in a complete heart cycle by levocardiography with adaptive raster tracking—validation of the method] Elfner R, et al. **Z Kardiol** 1990 May;79(5):347–53 (Eng. Abstr.) **(Ger)**

METHODS

A Hough transform technique for tracking arterial bifurcations in successive angiograms. Periyalwar S, et al. **Biomed Sci Instrum** 1990;26:1–3
Computerized tabulation of cine coronary angiograms. Its implication for results of randomized trials. Favaloro RG. **Circulation** 1990 Jun;81(6):1992–2003 (74 ref.)
How critical is frame selection in quantitative coronary angiographic studies? Reiber JH, et al. **Eur Heart J** 1989 Nov;10 Suppl F:54–9
A comparison of two methods to measure coronary flow reserve in the setting of coronary angioplasty: intracoronary blood flow velocity measurements with a Doppler catheter, and digital subtraction cineangiography. Serruys PW, et al. **Eur Heart J** 1989 Aug;10(8):725–36
Quantitative coronary cineangiogram analysis: a technical assessment. Abukhalil JM. **Radiol Technol** 1990 Jul–Aug; 61(6):467–71

CINEFLUOROGRAPHY see **CINERADIOGRAPHY**

CINERADIOGRAPHY

Cine-computed tomographic assessment of regional renal blood flow. Jaschke W, et al. **Acta Radiol** 1990 Jan; 31(1):77–81
Comparative function of visceral esophageal substitutes by cinefluoroscopy. Hanna EA, et al. **Ann Thorac Surg** 1967 Feb;3(2):173–6
Cine angiographic findings in young Iraqi men with first acute myocardial infarction. al-Koubaisy OK, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):87–90 (19 ref.)
Validation of left ventricular function parameters acquired with the non-imaging nuclear probe: comparison with tantalum marker cine-fluoroscopy. Lefkowitz CA, et al. **Eur Heart J** 1990 May;11(5):403–12
Topographic representation of the pharyngoesophageal segment during swallowing. Karstoft J, et al. **Invest Radiol** 1990 Feb;25(2):184–8
[Contribution of roentgen cinematography to the diagnosis of pharyngo-esophageal diseases] Hannig C, et al. **Internist (Berl)** 1990 Feb;31(2):94–105 (50 ref.) **(Ger)**
[Coronary calcification in cinefluoroscopy: the noninvasive diagnosis of ischemic myocardial disease masquerading as dilated cardiomyopathy] Yamanaka O. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):899–904 **(Jpn)**

ADVERSE EFFECTS

Dissection of the left main coronary artery: diagnosis by angioscopy. Richens D, et al. **Ann Thorac Surg** 1990 Mar; 49(3):469–70

INSTRUMENTATION

Analysis of movement of intrathoracic neoplasms using ultrafast computerized tomography. Ross CS, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):671–7

METHODS

Very high speed (2,000 frames s–1) cine angiography for evaluation of instantaneous left ventricular function. Stein PD, et al. **J Biomech** 1989;22(6–7):755–9

CINGULATE GYRUS see **GYRUS CINGULI**

CINNAMATES

The spectrophotometric determination of indole-3-methanol in small samples with p-dimethylaminocinnamaldehyde on the basis of the formation of an azafulvenium salt. García-Florenciano E, et al. **Anal Biochem** 1989 Nov 15; 183(1):172–6
The effects of caffeic acid and its related catechols on hydroxyl radical formation by 3-hydroxyanthranilic acid, ferric chloride, and hydrogen peroxide. Iwahashi H, et al. **Arch Biochem Biophys** 1990 Jan;276(1):242–7

ADVERSE EFFECTS

Propolis allergy: synthesis and patch testing of gamma,gamma-dimethylallyl caffeic acid ester and its o-methyl derivatives. Ginanneschi M, et al. **Contact Dermatitis** 1989 Oct;21(4):267–9

ANALYSIS

Occurrence and content of hydroxycinnamic and hydroxybenzoic acid compounds in foods. Herrmann K. **Crit Rev Food Sci Nutr** 1989;28(4):315–47 (209 ref.)
[Determination of seven ultraviolet absorbent in cosmetics by high speed liquid chromatography] Saito E, et al. **Eisei Shikenjo Hokoku** 1989;(107):99–102 (Eng. Abstr.) **(Jpn)**

CHEMICAL SYNTHESIS

The synthesis of caffeic acid esters, a new group of naturally occurring contact allergens. Stöwe HT, et al. **Naturwissenschaften** 1989 Sep;76(9):426–7

[Preparation of derivatives of 3–(3,4–dimethoxyphenyl)propanic acid and a study of its biological activity] Novotáček L, et al. **Cesk Farm** 1990 May; 39(3):109–12 (Eng. Abstr.) (Cze)

ISOLATION & PURIFICATION

The monocarboxylate carrier from rat liver mitochondria. Purification and kinetic characterization in a reconstituted system. Capuano F, et al. **FEBS Lett** 1990 Feb 12; 261(1):39–42

METABOLISM

The kinetics of transport of lactate and pyruvate into isolated cardiac myocytes from guinea pig. Kinetic evidence for the presence of a carrier distinct from that in erythrocytes and hepatocytes. Poole RC, et al. **Biochem J** 1989 Dec 1;264(2):409–18

Evidence for reactivity of serine–74 with trans–4–(N,N–dimethylamino)cinnamaldehyde during oxidation by the cytoplasmic aldehyde dehydrogenase from sheep liver. Loomes KM, et al. **Biochemistry** 1990 Feb 27; 29(8):2070–5

Oxidation products of caffeic acid as model substances for the antigonadotropic activity of plant extracts. John M, et al. **Planta Med** 1990 Feb;56(1):14–8

PHARMACOKINETICS

[Absorption, distribution and excretion of 3H–SC1001] Zhang ZQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):35–8 (Eng. Abstr.) (Chi)

[The pharmacokinetics of SC1001–sodium and SC1001–aminum in human body] Zhu QD, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):31–4 (Eng. Abstr.) (Chi)

PHARMACOLOGY

Topical ultraviolet light–absorbing chromophore protects against experimental photokeratitis. Oldenburg JB, et al. **Arch Ophthalmol** 1990 Aug;108(8):1142–4

Antiproliferative effects of glutathione S–transferase inhibitors on the K562 cell line. Sato Y, et al. **Biochem Pharmacol** 1990 Apr 1;39(7):1263–6

Structure and activity of two photoreversible cinnamates bound to chymotrypsin. Stoddard BL, et al. **Biochemistry** 1990 May 22;29(20):4871–9

Inhibiting conductive Cl uptake in membrane vesicles: specificity of alpha–phenylcinnamate. Forsyth GW, et al. **Biochim Biophys Acta** 1989 Oct 26;977(1):19–25

Inhibition of mitochondrial carnitine acylcarnitine translocase by hypoglycaemia–inducing substances. Beneking M, et al. **J Clin Chem Clin Biochem** 1990 May;28(5):323–7

A tyrosine–specific protein kinase inhibitor, alpha–cyano–3–ethoxy–4–hydroxy–5–phenylthiomethylcinnamamide, blocks the phosphorylation of tyrosine kinase substrate in intact cells. Shiraishi T, et al. **Jpn J Cancer Res** 1990 Jun–Jul;81(6–7):645–52

Effects of pollen–extract components, diamines and derivatives of feruloylputrescine on isolated bladder and urethral smooth muscles of mice. Nakase K, et al. **Jpn J Pharmacol** 1990 Jun;53(2):157–64

Differential effects of the pharmacological manipulation of serotonin systems on cocaine and amphetamine self–administration in rats. Porrino LJ, et al. **Life Sci** 1989; 45(17):1529–35

Antiinflammatory activity of cinnamic acids. Kurup A, et al. **Pharmazie** 1989 Dec;44(12):870

Photocoagulation of human plasma: acyl serine proteinase photochemistry. Porter NA, et al. **Photochem Photobiol** 1990 Jan;51(1):37–43

[Effects of synthetic new drug SC1001–sodium on respiratory frequency, heart rate, rectal temperature and electrocorticogram in rabbits] Chen QX, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):28–30 (Eng. Abstr.) (Chi)

[Hepatoprotective activity of analogs of cinnamic acid] Salnikova SI, et al. **Farmakol Toksikol** 1989 May–Jun; 52(3):77–80 (Eng. Abstr.) (Rus)

THERAPEUTIC USE

Protection against Amanita phalloides by the iridoid glycoside mixture of Picrorhiza kurroa (kutkin). Floersheim GL, et al. **Agents Actions** 1990 Mar;29(3–4):386–7

[An experimental observation on the calmative and antiepileptic effects of a new synthetic drug SC1001–aminum intupaias] Chai HX, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):21–3 (Eng. Abstr.) (Chi)

[Studies on synthetic new drug SC1001–sodium against epilepsy induced by coriaria lactone in rabbits] Xie YG, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar; 20(1):24–7 (Eng. Abstr.) (Chi)

TOXICITY

Stomach carcinogenicity of caffeic acid, sesamol and catechol in rats and mice. Hirose M, et al. **Jpn J Cancer Res** 1990 Mar;81(3):207–12

CINNAMON see under CONDIMENTS

CINNARIZINE

ADMINISTRATION & DOSAGE

[Comparison of the effectiveness of treatment with diverse doses of cinnarizine of patients with circulatory encephalopathy] Shtok VN, et al. **Klin Med (Mosk)** 1989 Sep;67(9):55–8 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Adverse reactions to cinnarizine [letter] Bhatia RS. **J Assoc Physicians India** 1989 Nov;37(11):733

[Cinarizine and Parkinson's disease. Double–blind placebo–controlled study] Martí Massó JF. **Neurologia** 1986 Mar–Apr;1(2):55–7 (Eng. Abstr.) (Spa)

[Cinnarizine and Parkinson disease (letter)] Micheli F, et al. **Neurologia** 1987 Jul–Aug;2(4):194–5 (Spa)

ANALOGS & DERIVATIVES

Acute toxicity of dipfluzine and its effects on isolated vascular smooth muscle. Wang YL, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):39–42

Streptozotocin–induced diabetes in rat. III. Antioxidant protection of vascular complications by flunarizine and aligeron. Somova L, et al. **Methods Find Exp Clin Pharmacol** 1989 Oct;11(10):607–12

ANALYSIS

Column liquid chromatography of calcium channel blockers. Waki H, et al. **J Chromatogr** 1989 Sep 29;494:408–12

PHARMACOKINETICS

[Application of gastric acidity–controlled beagle dog to bioavailability study of cinnarizine] Yamada I, et al. **Yakugaku Zasshi** 1990 Apr;110(4):280–5 (Eng. Abstr.) (Jpn)

PHARMACOLOGY

Protective effect of nifedipine, cinnarizine and dilthiazem against stress elevation of nonesterified fatty acids in brain. Sklenovský A, et al. **Act Nerv Super (Praha)** 1990 Jun; 32(2):151–2

Effect of betahistine dihydrochloride compared with cinnarizine on induced vestibular nystagmus. Cullen JR, et al. **Clin Otolaryngol** 1989 Dec;14(6):485–7

Effects of calcium antagonists on the evoked release of dynorphin A(1–8) and availability of intraterminal calcium in rat hippocampal mossy fiber synaptosomes. Terrian DM, et al. **Neurosci Lett** 1989 Dec 4;106(3):322–7

THERAPEUTIC USE

Cinnarizine and flunarizine improve the tumour radiosensitisation induced by erythrocyte transfusion in anaemic mice. Wood PJ, et al. **Br J Cancer** 1989 Jul; 60(1):36–40

[Effect of cinnarizine on various types of vertigo. Clinical and electronystagmographic results of a double–blind study] Hausler R, et al. **Acta Otorhinolaryngol Belg** 1989; 43(2):177–85 (Eng. Abstr.) (Fre)

[Clinical and therapeutic experience in 151 consecutive protocolized cases with vertigo syndrome of cervical origin. Comparative study of a cinnarizine and dihydroergocristine combination with a cinnarizine and dihydroergocristine plus anti–inflammatory agents combination] Bartual J, et al. **Acta Otorrinolaringol Esp** 1988 Sep–Oct;39(5):331–8 (Eng. Abstr.) (Spa)

CINOXACIN see under PYRIDAZINES

CIONA INTESTINALIS see under UROCHORDATA

CIPROFLOXACIN

ADMINISTRATION & DOSAGE

Ciprofloxacin: major advances in intravenous and oral quinolone therapy. Proceedings of a symposium. April 28 to 29, 1989, Naples, Florida. **Am J Med** 1989 Nov 30; 87(5A):1S–287S

Safety and efficacy of intravenous ciprofloxacin in the treatment of selected infections. Abadie–Kemmerly S, et al. **Am J Med** 1989 Nov 30;87(5A):213S–220S

Comparison of parenteral ciprofloxacin with clindamycin–gentamicin in the treatment of pelvic infection. Apuzzio JJ, et al. **Am J Med** 1989 Nov 30; 87(5A):148S–151S

Treatment of sepsis in patients with neoplastic diseases with intravenous ciprofloxacin. Brown AE, et al. **Am J Med** 1989 Nov 30;87(5A):266S–268S

Combination chemotherapy with ciprofloxacin for infection with Mycobacterium tuberculosis in mouse models. Chadwick M, et al. **Am J Med** 1989 Nov 30; 87(5A):35S–36S

Single–dose preoperative prophylaxis in transurethral surgery. Ciprofloxacin versus cefotaxime. Christensen MM, et al. **Am J Med** 1989 Nov 30;87(5A):258S–260S

Sequential intravenous/oral therapy with ciprofloxacin in severe infection. Chrysanthopoulos CJ, et al. **Am J Med** 1989 Nov 30;87(5A):225S–227S

Sequential intravenous and oral ciprofloxacin versus intravenous ceftazidime in the treatment of complicated urinary tract infections. Cox CE. **Am J Med** 1989 Nov 30;87(5A):157S–159S

Comparison of intravenous ciprofloxacin and intravenous cefotaxime for antimicrobial prophylaxis in transurethral surgery. Cox CE. **Am J Med** 1989 Nov 30; 87(5A):252S–254S

Intravenous and sequential intravenous and oral ciprofloxacin in the treatment of severe infections. Daly JS, et al. **Am J Med** 1989 Nov 30;87(5A):232S–234S

Prospective, controlled, randomized, non–blind comparison of intravenous/oral ciprofloxacin with intravenous ceftazidime in the treatment of severe surgical infections. Del Rosal PL, et al. **Am J Med** 1989 Nov 30; 87(5A):183S–184S

Combination effects of ciprofloxacin, clindamycin, and metronidazole intravenously in volunteers. Deppermann KM, et al. **Am J Med** 1989 Nov 30;87(5A):46S–48S

Intravenous/oral ciprofloxacin versus ceftazidime in the treatment of serious infections. Fass RJ, et al. **Am J Med** 1989 Nov 30;87(5A):164S–168S

Multicenter, randomized trial of ciprofloxacin plus azlocillin versus ceftazidime plus amikacin for empiric treatment of febrile neutropenic patients. Flaherty JP, et al. **Am J Med** 1989 Nov 30;87(5A):278S–282S

Randomized study of intravenous versus sequential intravenous/oral regimen of ciprofloxacin in the treatment of gram–negative septicemia. Gangji D, et al. **Am J Med** 1989 Nov 30;87(5A):206S–208S

Intravenous/oral ciprofloxacin therapy versus intravenous ceftazidime therapy for selected bacterial infections. Gaut PL, et al. **Am J Med** 1989 Nov 30;87(5A):169S–175S

Clinical study of intravenous and oral ciprofloxacin in complicated bacterial infections. Gelfand MS, et al. **Am J Med** 1989 Nov 30;87(5A):235S–237S

Intravenous ciprofloxacin versus cefotaxime prophylaxis during transurethral surgery. Gombert ME, et al. **Am J Med** 1989 Nov 30;87(5A):250S–251S

Intravenous and oral ciprofloxacin treatment of 52 infections. Greenberg RN, et al. **Am J Med** 1989 Nov 30; 87(5A):238S–239S

Intravenous ciprofloxacin therapy in severe infections. Gudiol F, et al. **Am J Med** 1989 Nov 30;87(5A):221S–224S

Intravenous and oral ciprofloxacin in the treatment of proven pelvic inflammatory disease. A comparison with doxycycline and metronidazole. Heinonen PK, et al. **Am J Med** 1989 Nov 30;87(5A):152S–156S

Intravenous ciprofloxacin as empirical treatment of febrile neutropenic patients. Kelsey SM, et al. **Am J Med** 1989 Nov 30;87(5A):274S–277S

Efficacy and safety of higher–dose intravenous ciprofloxacin in severe hospital–acquired infections. Kljucar S, et al. **Am J Med** 1989 Nov 30;87(5A):52S–56S

Treatment of serious infections with intravenous ciprofloxacin. French Multicenter Study Group. Modai J. **Am J Med** 1989 Nov 30;87(5A):243S–247S

Intravenous/oral ciprofloxacin therapy of infections caused by multiresistant bacteria. Neu HC, et al. **Am J Med** 1989 Nov 30;87(5A):209S–212S

Prospective, randomized comparison of sequential intravenous followed by oral ciprofloxacin with intravenous ceftazidime in the treatment of serious infections. Peacock JE Jr, et al. **Am J Med** 1989 Nov 30; 87(5A):185S–190S

Efficacy and safety of intravenous ciprofloxacin in the treatment of serious infections. A comparison with ceftazidime. Quintero–Perez NP, et al. **Am J Med** 1989 Nov 30;87(5A):198S–201S

Comparative, double–blind study of intravenous ciprofloxacin and intravenous ceftazidime in serious infection. Ramirez–Ronda CH, et al. **Am J Med** 1989 Nov 30;87(5A):195S–197S

Intravenous ciprofloxacin for infections in cancer patients. Rolston KV, et al. **Am J Med** 1989 Nov 30; 87(5A):261S–265S

Intravenous ciprofloxacin and ceftazidime in serious infections. A prospective, controlled clinical trial with third–party blinding. Sifuentes–Osornio J, et al. **Am J Med** 1989 Nov 30;87(5A):202S–205S

Intravenous ciprofloxacin or ceftazidime in selected infections. A prospective, randomized, controlled study. Villavicencio J, et al. **Am J Med** 1989 Nov 30; 87(5A):191S–194S

Oral ciprofloxacin vs parenteral cefotaxime in the treatment of difficult skin and skin structure infections. A multicenter trial. Gentry LO, et al. **Arch Intern Med** 1989 Nov; 149(11):2579–83

Topical and oral treatment of chronic otitis media with ciprofloxacin. A preliminary study. Esposito S, et al. **Arch Otolaryngol Head Neck Surg** 1990 May;116(5):557–9

Treating malignant otitis with oral ciprofloxacin [letter] Fairley J, et al. **BMJ** 1989 Sep 23;299(6702):794–5

Prophylaxis of respiratory tract infection in patients on artificial respiration. Haverkorn MJ. **Eur Heart J** 1989 Dec; 10 Suppl H:22–7

Concentration of ciprofloxacin in bone tissue after single parenteral administration to patients older than 70 years. Wacha H, et al. **Infection** 1990 May–Jun;18(3):173–6

Evaluation of single dose ciprofloxacin in the treatment of rectal and pharyngeal gonorrhoea. Coker DM, et al. **J Antimicrob Chemother** 1989 Aug;24(2):271–2

Oral ciprofloxacin compared with standard parenteral antibiotic therapy for chronic osteomyelitis in adults. Mader JT, et al. **J Bone Joint Surg [Am]** 1990 Jan; 72(1):104–10

Treatment of CAPD peritonitis with oral ciprofloxacin [letter] **Nephrol Dial Transplant** 1989;4(8):759

[Local antibiotic therapy of bacterial ear infections] Ganz H. **HNO** 1989 Sep;37(9):386–8 (Eng. Abstr.) (Ger)

[Local treatment of Pseudomonas infection of the ear. A small clinical study] Stange G. **Laryngorhinootologie** 1989 Dec;68(12):653–6 (Eng. Abstr.) (Ger)

ADVERSE EFFECTS

Safety of intravenous ciprofloxacin. A review. Arcieri GM, et al. **Am J Med** 1989 Nov 30;87(5A):92S–97S (0 ref.)

Eosinophilic meningitis associated with ciprofloxacin. Asperilla MO, et al. **Am J Med** 1989 Nov;87(5):589–90

Safety of ciprofloxacin based on phase IV studies ("Anwendungsbeobachtung") in the Federal Republic of Germany. Reiter C, et al. **Am J Med** 1989 Nov 30; 87(5A):103S–106S

Safety of oral ciprofloxacin. An update based on clinical trial results. Schacht P, et al. **Am J Med** 1989 Nov 30; 87(5A):98S–102S (10 ref.)

Anaphylactoid reactions reported after treatment with ciprofloxacin. Davis H, et al. **Ann Intern Med** 1989 Dec 15;111(12):1041–3

Serum sickness-like illness associated with ciprofloxacin. Slama TG. **Antimicrob Agents Chemother** 1990 May; 34(5):904–5

Lobular panniculitis associated with ciprofloxacin. Rodríguez E, et al. **BMJ** 1990 Jun 2;300(6737):1468

Safety of intravenous ciprofloxacin in healthy volunteers after multiple dosing. A review. Thorsteinsson SB, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):191–3 (7 ref.)

Possible interaction between ciprofloxacin and warfarin. Kamada AK. **DICP** 1990 Jan;24(1):27–8

Seizure with ciprofloxacin and theophylline combined therapy. Karki SD, et al. **DICP** 1990 Jun;24(6):595–6

Suspected ciprofloxacin-induced interstitial nephritis. Murray KM, et al. **DICP** 1990 Apr;24(4):379–80

Potential neurologic toxicity related to ciprofloxacin. Schwartz MT, et al. **DICP** 1990 Feb;24(2):138–40

Safety profile of quinolones. Shah PM, et al. **Eur Urol** 1990; 17 Suppl 1:46–51 (13 ref.)

Theophylline toxicity associated with the administration of ciprofloxacin in a nursing home patient. Richardson JP. **J Am Geriatr Soc** 1990 Mar;38(3):236–8

Photosensitivity rash in a patient being treated with ciprofloxacin [letter] Granowitz EV. **J Infect Dis** 1989 Nov;160(5):910–1

Inappropriate use of oral ciprofloxacin. Frieden TR, et al. **JAMA** 1990 Sep 19;264(11):1438–40

Allergic nephropathy associated with ciprofloxacin. Rastogi S, et al. **Mayo Clin Proc** 1990 Jul;65(7):987–9

Ciprofloxacin-induced allergic interstitial nephritis. Helmink R, et al. **Nephron** 1990;55(4):432–3

Bacteraemia caused by Stomatococcus mucilaginosus in a granulocytopenic patient with acute lymphocytic leukaemia. Weers-Pothoff G, et al. **Neth J Med** 1989 Oct; 35(3–4):143–6

Reversible visual loss in a patient receiving high-dose ciprofloxacin hydrochloride (Cipro). Vrabec TR, et al. **Ophthalmology** 1990 Jun;97(6):707–10

Reversible leukopenia related to ciprofloxacin therapy. Choo PW, et al. **South Med J** 1990 May;83(5):597–8

[Drug-induced esophageal injuries—an overview. Adverse effects of felodipine and ciprofloxacin observed during 2 years] **Lakartidningen** 1990 Jul 11;87(28–29):2368–9 (Swe)

[Ciproxin—2 years after registration] **Lakartidningen** 1990 Jul 11;87(28–29):2370 (Swe)

ANALOGS & DERIVATIVES

Successful single-dose prophylaxis of Staphylococcus aureus foreign body infections in guinea pigs by fleroxacin. Bouchenaki N, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):21–4

Dose-ranging study of fleroxacin for treatment of uncomplicated Chlamydia trachomatis genital infections. Bowie WR, et al. **Antimicrob Agents Chemother** 1989 Oct; 33(10):1774–7

Adverse reactions in a dose-ranging study with a new long-acting fluoroquinolone, fleroxacin. Bowie WR, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1778–82

Randomized, controlled trial of a 10-day course of amifloxacin versus trimethoprim-sulfamethoxazole in the treatment of acute, uncomplicated urinary tract infection. Amifloxacin Multi-Center Trial Group. Boyko EJ, et al. **Antimicrob Agents Chemother** 1990 Apr;34(4):665–7

In vitro activities of tosufloxacin, temafloxacin, and A-56620 against pathogens of diarrhea. Bryan JP, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):368–70

Multiple-dose pharmacokinetics and safety of oral amifloxacin in healthy volunteers. Cook JA, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):974–9

In vitro activities of irloxacin and E-3846, two new quinolones. García-Rodríguez JA, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1262–7

In vitro activity of Ro 23-9424, a dual-action cephalosporin, compared with activities of other antibiotics. Gu JW, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):189–95

Influence of N substitution on antimycobacterial activity of ciprofloxacin. Haemers A, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):496–7

Steady-state pharmacokinetics of fleroxacin in patients with skin and skin structure infections. Heim-Duthoy K, et al. **Antimicrob Agents Chemother** 1990 May;34(5):922–3

Safety of fleroxacin coadministered with theophylline to young and elderly volunteers. Parent M, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1249–53

Renal handling of fleroxacin in rabbits, dogs, and humans. Shiba K, et al. **Antimicrob Agents Chemother** 1990 Jan; 34(1):58–64

Evaluation of difloxacin in the treatment of uncomplicated urethral gonorrhea in men. Smith BL, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1721–3

Preliminary study of the pharmacokinetics of oral amifloxacin in elderly subjects. Stroshane RM, et al. **Antimicrob Agents Chemother** 1990 May;34(5):751–4

In vitro activity of amifloxacin against outer membrane mutants of the family Enterobacteriaceae and frequency of spontaneous resistance. Watanabe M, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1837–40

Double-blind, dose-range-finding study of fleroxacin (RO 23-6240; AM-833) for treatment of complicated urinary tract infections. Wolfhagen MJ, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):409–12

Elimination of ciprofloxacin and three major metabolites and consequences of reduced renal function. Bergan T, et al. **Chemotherapy** 1989;35(6):393–405

In vivo evaluation of a dual-action antibacterial, Ro 23-9424, compared to cefotaxime and fleroxacin. Beskid G, et al. **Chemotherapy** 1990;36(2):109–16

Newer agents against methicillin and/or gentamicin-resistant and -susceptible staphylococci. Chandrasekar PH, et al. **Chemotherapy** 1989;35(5):333–7

In vitro activity of fleroxacin and 14 other antimicrobials against slime- and non-slime-producing Staphylococcus epidermidis. Kropec A, et al. **Chemotherapy** 1989; 35(5):351–4

In vitro activity of fleroxacin and 6 other antimicrobials against Acinetobacter anitratus. Kropec A, et al. **Chemotherapy** 1989;35(5):360–2

Correlation between growth curves and killing curves of Escherichia coli in the presence of fleroxacin and ampicillin. Yourassowsky E, et al. **Chemotherapy** 1989; 35(6):423–30

Disposition of fleroxacin, a new trifluoroquinolone, and its metabolites. Pharmacokinetics in renal failure and influence of haemodialysis. Singlas E, et al. **Clin Pharmacokinet** 1990 Jul;19(1):67–79

Disposition of fleroxacin, a new trifluoroquinolone, and its metabolites. Pharmacokinetics in elderly patients. Taburet AM, et al. **Clin Pharmacokinet** 1990 Jul;19(1):80–8

Altered disposition of fleroxacin in patients with cystic fibrosis. Mimeault J, et al. **Clin Pharmacol Ther** 1990 May; 47(5):618–28

Antimicrobial activity of Ro 24-6778, a covalent bonding of desmethylfleroxacin and desacetylcefotaxime. Jones RN. **Diagn Microbiol Infect Dis** 1990 May–Jun;13(3):253–9

In vitro activity of Ro 24-6392, a novel ester-linked co-drug combining ciprofloxacin and desacetylcefotaxime. Jones RN. **Eur J Clin Microbiol Infect Dis** 1990 Jun;9(6):435–8

Research on antibacterial and antifungal agents. XI. New antibacterial quinolones related to pirfloxacin. Massa S, et al. **Farmaco** 1989 Sep;44(9):779–93

Morphological response of mycoplasma to fleroxacin. Werk R, et al. **Infection** 1989 Nov–Dec;17(6):405–6

The pharmacokinetics and therapeutic efficacy of fleroxacin and pefloxacin in a rat abscess model. Leibovitz E, et al. **J Antimicrob Chemother** 1989 Sep;24(3):375–85

Determination of the new fluoroquinolone fleroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection. Heizmann P, et al. **J Chromatogr** 1990 Apr 27;527(1):91–101

High-performance liquid chromatography for the determination of three new fluoroquinolones, fleroxacin, temafloxacin and A-64730, in biological fluids. Koechlin C, et al. **J Chromatogr** 1989 Jul 21;491(2):379–87

The antimicrobial activity of Fleroxacin RO 23-6240, a third generation fluoroquinolone derivative, tested in vitro. Lázničková T, et al. **J Hyg Epidemiol Microbiol Immunol** 1990;34(1):77–80

Conditions required for the bactericidal activity of fleroxacin and pefloxacin against Escherichia coli KL 16. Lewin CS, et al. **J Med Microbiol** 1990 Jun;32(2):83–6

Interactions of the oxygen-dependent antimicrobial system of the human neutrophil with difloxacin, ciprofloxacin, pefloxacin and fleroxacin in the intraphagocytic eradication of Staphylococcus aureus. van Rensburg CE, et al. **J Med Microbiol** 1990 May;32(1):15–7

Evaluation of free tissue concentrations of fleroxacin after oral administration. Limberg J, et al. **Pharm Res** 1990 Apr; 7(4):422–4

Histologic and histochemical changes in articular cartilages of immature beagle dogs dosed with difloxacin, a fluoroquinolone. Burkhardt JE, et al. **Vet Pathol** 1990 May; 27(3):162–70

[Studies on quinolone antibacterials. I. Synthesis and antibacterial activity of 7-(2-aminoethoxy)-, 7-(2-aminoethylthio)-, and 7-(2-aminoethylamino)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo qui noline -3-carboxylic acids and their derivatives] Yoshida T, et al. **Yakugaku Zasshi** 1990 Apr; 110(4):258–67 (Eng. Abstr.) (Jpn)

[Dual cephalosporins—a return of fixed combinations of antibiotics?] Krčméry V Sr. **Cas Lek Cesk** 1990 Jul 20; 129(29):914–6 (Eng. Abstr.) (Slo)

ANALYSIS

Interaction of the fluoroquinolone antimicrobial agents ciprofloxacin and enoxacin with liposomes. Bedard J, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1379–82

Concentration of ciprofloxacin in non-functional gallbladder mucosa after single dose intravenous administration. Sayek I, et al. **Infection** 1990 Mar–Apr;18(2):124

BLOOD

Ciprofloxacin intravenous dose variance. Lode H, et al. **Am J Med** 1989 Nov 30;87(5A):40S–45S

Sucralfate significantly reduces ciprofloxacin concentrations in serum. Garrelts JC, et al. **Antimicrob Agents Chemother** 1990 May;34(5):931–3

Serum levels of ciprofloxacin after single oral doses in patients with septicemia. D'Espine M, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec;8(12):1019–23

Possible interaction of ciprofloxacin with ferrous sulphate [letter] LePennec MP, et al. **J Antimicrob Chemother** 1990 Jan;25(1):184–5

A direct liquid chromatographic quantitation of ciprofloxacin in microsamples of plasma with fluorometric detection. el-Yazigi A, et al. **Ther Drug Monit** 1990 Jul;12(4):378–81

CEREBROSPINAL FLUID

Penetration of ciprofloxacin into the spinal fluid in patients with viral and bacterial meningitis. Trautmann M, et al. **Arzneimittelforschung** 1990 May;40(5):611–3

Penetration of ciprofloxacin into the cerebrospinal fluid of patients with uninflamed meninges. Nau R, et al. **J Antimicrob Chemother** 1990 Jun;25(6):965–73

METABOLISM

Factors influencing the accumulation of ciprofloxacin in Pseudomonas aeruginosa. Celesk RA, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1921–6

High-performance liquid chromatographic method for the simultaneous determination of enrofloxacin and its primary metabolite ciprofloxacin in canine serum and prostatic tissue. Tyczkowska K, et al. **J Chromatogr** 1989 Sep 1; 493(2):337–46

DNA breakdown by the 4-quinolones and its significance. Lewin CS, et al. **J Med Microbiol** 1990 Jan;31(1):65–70

PHARMACOKINETICS

Concurrent administration of ciprofloxacin and potentially interacting drugs [letter] Lomaestro BM, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1770

Pharmacokinetics of three newer quinolones in pregnant and lactating women. Giamarellou H, et al. **Am J Med** 1989 Nov 30;87(5A):49S–51S

Pharmacokinetics of orally administered ciprofloxacin in abdominal surgery. Morran C, et al. **Am J Med** 1989 Nov 30;87(5A):86S–88S

Pharmacokinetics of ciprofloxacin in young (healthy volunteers) and elderly patients, and concentrations in prostatic fluid, seminal fluid, and prostatic adenoma tissue following intravenous administration. Naber KG, et al. **Am J Med** 1989 Nov 30;87(5A):57S–59S

Respiratory tract penetration of ciprofloxacin. Reid TM, et al. **Am J Med** 1989 Nov 30;87(5A):60S–61S

Gastrointestinal secretion of ciprofloxacin. Evaluation of the charcoal model for investigations in healthy volunteers. Sörgel F, et al. **Am J Med** 1989 Nov 30;87(5A):62S–65S

Absorption differences of ciprofloxacin along the human gastrointestinal tract determined using a remote-control drug delivery device (HF-capsule). Staib AH, et al. **Am J Med** 1989 Nov 30;87(5A):66S–69S

Comparative pharmacokinetics of ofloxacin and ciprofloxacin. Wolfson JS, et al. **Am J Med** 1989 Dec 29; 87(6C):31S–36S (73 ref.)

Ciprofloxacin pharmacokinetics in critically ill trauma patients. Yuen GJ, et al. **Am J Med** 1989 Nov 30; 87(5A):70S–75S

Serum and tissue cage fluid concentrations of ciprofloxacin after oral administration of the drug to healthy dogs. Walker RD, et al. **Am J Vet Res** 1990 Jun;51(6):896–900

Alteration in the pharmacokinetic disposition of ciprofloxacin by simultaneous administration of azlocillin. Barriere SL, et al. **Antimicrob Agents Chemother** 1990 May;34(5):823–6

Ciprofloxacin concentrations and impact of the colon microflora in patients undergoing colorectal surgery. Brismar B, et al. **Antimicrob Agents Chemother** 1990 Mar; 34(3):481–3

Multiple-dose pharmacokinetics of concurrent oral ciprofloxacin and rifampin therapy in elderly patients. Chandler MH, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):442–7

Steady-state pharmacokinetics of intravenous and oral ciprofloxacin in elderly patients. Hirata CA, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1927–31

Penetration of ciprofloxacin into human pleural fluid. Jacobs F, et al. **Antimicrob Agents Chemother** 1990 May; 34(5):934–6

Penetration of ciprofloxacin into heart valves, myocardium, mediastinal fat, and sternal bone marrow in humans. Mertes PM, et al. **Antimicrob Agents Chemother** 1990 Mar; 34(3):398–401

Penetration of ciprofloxacin into saliva and nasal secretions and effect of the drug on the oropharyngeal flora of ill subjects. Piercy EA, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1645–6

Effect of renal function on the bioavailability of ciprofloxacin. Plaisance KI, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1031–4

Effect of ferrous sulfate and multivitamins with zinc on absorption of ciprofloxacin in normal volunteers. Polk RE, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1841–4

Ciprofloxacin absorption in different regions of the human gastrointestinal tract. Investigations with the hf-capsule. Harder S, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):35–9

Transintestinal elimination of ciprofloxacin. Rohwedder R, et al. **Chemotherapy** 1990;36(2):77–84

Effects of aluminum and magnesium antacids and ranitidine on the absorption of ciprofloxacin. Nix DE, et al. **Clin Pharmacol Ther** 1989 Dec;46(6):700–5

Prospective use of optimal sampling theory: steady-state ciprofloxacin pharmacokinetics in critically ill trauma patients. Yuen GJ, et al. **Clin Pharmacol Ther** 1989 Oct; 46(4):451–7

Extravascular penetration of ciprofloxacin. A review. Bergan T. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):103–14 (101 ref.)

Ciprofloxacin prior to colon surgery. Dörner A, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):177–9

Pharmacokinetic behavior of ciprofloxacin both in native cardiac and porcine valves treated in glutaraldehyde. Kalmár P, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr; 13(2):115–26

Transintestinal elimination of ciprofloxacin. Rohwedder RW, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr; 13(2):127–33

Absorption of ciprofloxacin administered through a nasogastric or a nasoduodenal tube in volunteers and patients receiving enteral nutrition. Yuk JH, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):99–102

Ciprofloxacin penetration into human breast milk: a case report. Cover DL, et al. **DICP** 1990 Jul–Aug;24(7–8):703–4

Computer simulation of ciprofloxacin pharmacokinetics in patients on CAPD. Mrhar A, et al. **Int J Artif Organs** 1990 Mar;13(3):169–75

Reduced absorption of oral ciprofloxacin after chemotherapy for haematological malignancy. Johnson EJ, et al. **J Antimicrob Chemother** 1990 May;25(5):837–42

Ciprofloxacin pharmacokinetics after a standard or high-fat/high-calcium breakfast. Frost RW, et al. **J Clin Pharmacol** 1989 Oct;29(10):953–5

Concentration of ofloxacin and ciprofloxacin in human semen following a single oral dose. Berger SA, et al. **J Urol** 1990 Sep;144(3):683–4

The effect of sucralfate pretreatment on the pharmacokinetics of ciprofloxacin. Nix DE, et al. **Pharmacotherapy** 1989; 9(6):377–80

[Bronchopulmonary penetration of ciprofloxacin] Loos U, et al. **Pneumologie** 1990 Feb;44 Suppl 1:312–3 (Eng. Abstr.) (Ger)

PHARMACOLOGY

Effect of the abscess environment on the antimicrobial activity of ciprofloxacin. Bryant RE, et al. **Am J Med** 1989 Nov 30;87(5A):23S–27S

Resistance to ciprofloxacin appearing during therapy. Chin NX, et al. **Am J Med** 1989 Nov 30;87(5A):28S–31S

Ciprofloxacin in combination with other antimicrobials. Eliopoulos GM, et al. **Am J Med** 1989 Nov 30; 87(5A):17S–22S

Ciprofloxacin and the fluoroquinolones. New concepts on the mechanism of action and resistance. Fisher LM, et al. **Am J Med** 1989 Nov 30;87(5A):2S–8S

Ciprofloxacin–caffeine: a drug interaction established using in vivo and in vitro investigations. Harder S, et al. **Am J Med** 1989 Nov 30;87(5A):89S–91S

Cyclosporine (cyclosporin A) pharmacokinetics in renal transplant patients receiving ciprofloxacin. Lang J, et al. **Am J Med** 1989 Nov 30;87(5A):82S–85S

Drug-drug interactions with ciprofloxacin and other fluoroquinolones. Polk RE. **Am J Med** 1989 Nov 30; 87(5A):76S–81S (43 ref.)

Pneumococcal meningitis during intravenous ciprofloxacin therapy [comment] Righter J. **Am J Med** 1990 May; 88(5):548 Comment on: Am J Med 1989 Oct;87(4):475.

Ciprofloxacin-resistant methicillin-resistant Staphylococcus aureus in New York health care facilities, 1988. The New York MRSA Study Group. Budnick LD, et al. **Am J Public Health** 1990 Jul;80(7):810–3

Minimal inhibitory concentrations of rifabutin, ciprofloxacin, and ofloxacin against Mycobacterium tuberculosis isolated before treatment of patients in Taiwan. Chen CH, et al. **Am Rev Respir Dis** 1989 Oct;140(4):987–9 (25 ref.)

Contribution of permeability and sensitivity to inhibition of DNA synthesis in determining susceptibilities of Escherichia coli, Pseudomonas aeruginosa, and Alcaligenes faecalis to ciprofloxacin. Bedard J, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1457–64

Cross-resistance of Pseudomonas aeruginosa to ciprofloxacin, extended-spectrum beta-lactams, and aminoglycosides and susceptibility to antibiotic combinations. Chow AW, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1368–72

Investigation of potential interaction of ciprofloxacin with cyclosporine in bone marrow transplant recipients. Krüger HU, et al. **Antimicrob Agents Chemother** 1990 Jun; 34(6):1048–52

Analysis of acquired ciprofloxacin resistance in a clinical strain of Pseudomonas aeruginosa. Masecar BL, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):281–6

Ciprofloxacin does not inhibit mitochondrial functions but other antibiotics do. Riesbeck K, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):167–9

In vitro effect of fluoroquinolones on theophylline metabolism in human liver microsomes. Sarkar M, et al. **Antimicrob Agents Chemother** 1990 Apr;34(4):594–9

Cross resistance to ciprofloxacin and other antimicrobial agents among clinical isolates of Acinetobacter calcoaceticus biovar anitratus. Shalit I, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):494–5

Effects of ciprofloxacin on testosterone and cortisol concentrations in healthy males. Waite NM, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1875–7

Comparative effects of ciprofloxacin and lomefloxacin on the oxidative metabolism of theophylline. Robson RA, et al. **Br J Clin Pharmacol** 1990 Apr;29(4):491–3

In vitro susceptibility of selected veterinary bacterial pathogens to ciprofloxacin, enrofloxacin and norfloxacin. Prescott JF, et al. **Can J Vet Res** 1990 Jan;54(1):195–7

Quinolone-induced differential modification of IL-1 alpha and IL-1 beta production by LPS-stimulated human monocytes. Bailly S, et al. **Cell Immunol** 1990 Jun; 128(1):277–88

Comparison of inhibitory and bactericidal activity of antipseudomonal antibiotics against Pseudomonas aeruginosa isolates from cystic fibrosis patients. Ansorg R, et al. **Chemotherapy** 1990;36(3):222–9

In vitro susceptibility of Salmonella to ciprofloxacin and pefloxacin compared with three other antibiotics. Campos LC, et al. **Chemotherapy** 1990;36(1):29–32

Ciprofloxacin–theophylline drug interaction [letter] Paidipaty B, et al. **Crit Care Med** 1990 Jun;18(6):685–6

Comparative susceptibility of Mycoplasma pneumoniae to erythromycin, ciprofloxacin, and lomefloxacin. Cassell GH, et al. **Diagn Microbiol Infect Dis** 1989 Sep–Oct;12(5):433–5

In vitro activity of lomefloxacin (NY-198 or SC 47111), ciprofloxacin, and erythromycin against 100 clinical Legionella strains. Edelstein PH, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3 Suppl):93S–95S

In vitro studies of ciprofloxacin and survey of resistance patterns in current isolates. Fernandes CJ, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):79–91

In vitro activity of lomefloxacin as compared with ciprofloxacin. Inderlied CB, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3 Suppl):17S–20S

Serum bactericidal activity from intravenous ciprofloxacin and azlocillin given alone and in combination to healthy subjects. Orlando PL, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):93–7

Bactericidal activity of lomefloxacin SC 47111 (NY-198) and ciprofloxacin against selected pathogens. Stratton CW, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3 Suppl):29S–34S

Ciprofloxacin Staphylococcus aureus resistance [letter] Pane FJ, et al. **DICP** 1990 Apr;24(4):439

Low-dose ciprofloxacin for selective decontamination of the digestive tract in human volunteers. Meijer-Severs GJ, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):285–7

Selective enhancement of synthesis of interleukin-2 in lymphocytes in the presence of ciprofloxacin. Riesbeck K, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jun;9(6):409–13

Decontaminating efficacy of ciprofloxacin in an animal model. van Ogtrop ML, et al. **Eur J Clin Microbiol Infect Dis** 1989 Oct;8(10):901–3

Ciprofloxacin resistant Neisseria gonorrhoeae in the UK [letter] Turner A, et al. **Genitourin Med** 1990 Feb;66(1):43

In vitro susceptibility of Campylobacter jejuni and Campylobacter coli isolated in Austria to erythromycin and ciprofloxacin. Hirschl AM, et al. **Int J Med Microbiol** 1990 Apr;272(4):443–7

Intracellular bactericidal activity of ciprofloxacin and ofloxacin against Mycobacterium tuberculosis H37Rv multiplying in the J-774 macrophage cell line. Rastogi N, et al. **Int J Med Microbiol** 1990 Jun;273(2):195–9

Synergism between ciprofloxacin and fosfomycin against gram-negative bacteria in vitro. Vogt K, et al. **Int J Med Microbiol** 1989 Dec;272(2):225–30

Variation in response of gram-positive cocci to the combination DuP 721 and ciprofloxacin [letter] Brumfitt W, et al. **J Antimicrob Chemother** 1989 Sep;24(3):465–7

Where are we now with ciprofloxacin? Hawkey PM. **J Antimicrob Chemother** 1989 Oct;24(4):477–80 (27 ref.)

Influence of ciprofloxacin on leukotriene generation from various cells in vitro. Knöller J, et al. **J Antimicrob Chemother** 1990 Apr;25(4):605–12

Sensitivity testing of enterococci to ciprofloxacin. Paton R, et al. **J Antimicrob Chemother** 1989 Aug;24(2):265–6

Use of a non-radioactive DNA hybridization technique to study the effect of quinolone antibiotics on plasmid replication and curing. Phillips AC, et al. **J Antimicrob Chemother** 1990 May;25(5):745–50

In-vitro susceptibility of Haemophilus influenzae to meropenem compared with imipenem, five other beta-lactams, chloramphenicol and ciprofloxacin. Powell M, et al. **J Antimicrob Chemother** 1989 Sep;24 Suppl A:175–81

Development of ciprofloxacin resistance in Brucella melitensis [letter] al-Sibai MB, et al. **J Antimicrob Chemother** 1990 Feb;25(2):302–3

In-vitro activity of azithromycin, erythromycin, ciprofloxacin and norfloxacin against Neisseria gonorrhoeae, Haemophilus ducreyi, and Chlamydia trachomatis. Slaney L, et al. **J Antimicrob Chemother** 1990 Jan;25 Suppl A:1–5

The lack of long-term suppressive effect of ciprofloxacin on murine bone marrow. Somekh E, et al. **J Antimicrob Chemother** 1989 Aug;24(2):209–13

In-vitro activity of ciprofloxacin and other agents against oral bacteria. Wade WG. **J Antimicrob Chemother** 1989 Nov;24(5):683–7

Comparative study of the in vitro antibacterial activity of ciprofloxacin and thirteen other antimicrobial drugs with respect to recently isolated pathogens. Maccanti O, et al. **J Chemother** 1990 Feb;2(1):31–6

Evaluation of ciprofloxacin's activity against recent clinical isolates. Nani E, et al. **J Chemother** 1989 Aug;1(4):223–5

In-vitro susceptibility of clinical isolates of Serratia species to antimicrobial agents. Sofianou D, et al. **J Chemother** 1990 Apr;2(2):79–81

Effect of ciprofloxacin on the pharmacokinetics of antipyrine in healthy volunteers. Tan KK, et al. **J Clin Pharm Ther** 1990 Apr;15(2):151–4

The effect of sodium alginate on the antibacterial activity of chlorhexidine, gentamicin and ciprofloxacin. Baillie LW. **J Hosp Infect** 1989 Aug;14(2):171–4

Emergence of ciprofloxacin-resistant coagulase-negative staphylococcal skin flora in immunocompromised patients receiving ciprofloxacin. Kotilainen P, et al. **J Infect Dis** 1990 Jan;161(1):41–4

Interactions of the oxygen-dependent antimicrobial system of the human neutrophil with difloxacin, ciprofloxacin, pefloxacin and fleroxacin in the intraphagocytic eradication of Staphylococcus aureus. van Rensburg CE, et al. **J Med Microbiol** 1990 May;32(1):15–7

Decreased susceptibility of Neisseria gonorrhoeae to ciprofloxacin [letter] [published erratum appears in Lancet 1990 Feb 3;335(8684):302] [see comments] Gransden WR, et al. **Lancet** 1990 Jan 6;335(8680):51 Comment in: Lancet 1990 Jan 20;335(8682):165.

Ciprofloxacin resistance in gonococci [letter; comment] Jephcott AE, et al. **Lancet** 1990 Jan 20;335(8682):165 Comment on: Lancet 1990 Jan 6;335(8680):51.

Stability of conjugative and non-conjugative R-plasmids from Serratia marcescens to gyrase inhibitors. Llanes C, et al. **Microbiologica** 1990 Apr;13(2):157–9

Killing rate and serum bactericidal activity of oxacillin, rifampin and ciprofloxacin against Staphylococcus aureus. Moretti MV, et al. **Microbiologica** 1989 Oct;12(4):297–306

Escherichia coli cells resistant to the DNA gyrase inhibitor, ciprofloxacin, overproduce a 60 kD protein homologous to GroEL. Hallett P, et al. **Mol Microbiol** 1990 Mar; 4(3):345–53

Influence of ciprofloxacin on the colonic microflora in young and elderly volunteers: no impact of the altered drug absorption. Ljungberg B, et al. **Scand J Infect Dis** 1990; 22(2):205–8

[Antibiotic resistance plasmids from Serratia marcescens and their elimination by DNA-gyrase inhibitors] Llanes C, et al. **C R Soc Biol (Paris)** 1989;183(3):240–6 (Eng. Abstr.) (Fre)

[Bactericidal effect of cefotaxime-sulbactam and imipenem combined with gentamicin and/or ciprofloxacin against CTX-1 producing Klebsiella pneumoniae] Archambaud M, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):534–9 (Eng. Abstr.) (Fre)

[Effect of quinolones on TNF-alpha production by human monocytes] Bailly S, et al. **Pathol Biol (Paris)** 1990 Apr; 38(4):267–71 (Eng. Abstr.) (Fre)

[Post-antibiotic effect of imipenem, amikacin and ciprofloxacin against various strains of Serratia marcescens] Bollet C, et al. **Pathol Biol (Paris)** 1990 May;38(5):446–9 (Eng. Abstr.) (Fre)

[In vitro effect of various antibiotics: beta lactams, aminoglycosides and fluoroquinolones alone and in combination against P. aeruginosa isolated from patients with mucoviscidosis] Croize J, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):573–7 (Eng. Abstr.) (Fre)

[In vitro activity of 4 fluoroquinolones against Klebsiella pneumoniae. Distribution according to phenotype resistance to aminoglycosides or beta-lactams] Miguères ML, et al. **Pathol Biol (Paris)** 1990 May;38(5):385–9 (Eng. Abstr.) (Fre)

[Antibacterial activity of norfloxacin, ofloxacin and ciprofloxacin according to resistance phenotypes to nalidixic acid and pefloxacin] Soussy CJ, et al. **Pathol Biol (Paris)** 1990 May;38(5):376–84 (Eng. Abstr.) (Fre)

[In vivo bactericidal effect of ciprofloxacin, ofloxacin and pefloxacin against Staphylococcus aureus] Tronel H, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):578–81 (Eng. Abstr.) (Fre)

[Bactericidal activity of enoxacin and ciprofloxacin in body fluids] Roos R, et al. **Infection** 1989;17 Suppl 1:S19–20 (Eng. Abstr.) (Ger)

[The influence of ciprofloxacin and pefloxacin on blood coagulation and the anticoagulant effect of heparin] Lepakhin VK, et al. **Farmakol Toksikol** 1989 Sep–Oct; 52(5):33–6 (Eng. Abstr.) (Rus)

[Comparison of in vitro activity of ciprofloxacin and pefloxacin against strains isolated from clinical material] Kumelj M, et al. **Plucne Bolesti** 1989 Jul–Dec;41(3–4):193–5 (Eng. Abstr.) (Ser)

STANDARDS

Comparative efficacy of ciprofloxacin, azlocillin, imipenem/cilastatin and tobramycin in a model of experimental septicemia due to Pseudomonas aeruginosa in neutropenic mice. Ulrich E, et al. **Infection** 1989 Sep–Oct;17(5):311–5

THERAPEUTIC USE

Drugs recently released in Belgium. Ciprofloxacin–cisapride. Harvengt C. **Acta Clin Belg** 1990;45(2):139–43

Clinical and economic effect of ciprofloxacin as an alternative to injectable antimicrobial therapy. Powers T, et al. **Am J Hosp Pharm** 1990 Aug;47(8):1781–4

An update on the efficacy of ciprofloxacin in animal models of infection. Andriole VT. **Am J Med** 1989 Nov 30; 87(5A):32S–34S

A prospective, randomized comparison of ceftazidime and ciprofloxacin as initial empiric therapy in neutropenic patients with fever. Bayston KF, et al. **Am J Med** 1989 Nov 30;87(5A):269S–273S

Use of ciprofloxacin in cystic fibrosis patients. Bosso JA. **Am J Med** 1989 Nov 30;87(5A):123S–127S

Ciprofloxacin in patients with bacteremic infections. The Spanish Group for the Study of Ciprofloxacin. Bouza E, et al. **Am J Med** 1989 Nov 30;87(5A):228S–231S

Comparative efficacy of ciprofloxacin versus josamycin in the treatment of acute, recurrent, or exacerbated bronchitis. Canton P, et al. **Am J Med** 1989 Nov 30;87(5A):121S–122S

Comparison of ciprofloxacin with ampicillin in acute infectious exacerbations of chronic bronchitis. A double-blind crossover study. Chodosh S, et al. **Am J Med** 1989 Nov 30;87(5A):107S–112S

Pneumococcal bacteremia during ciprofloxacin therapy for pneumococcal pneumonia [see comments] Cooper B, et al. **Am J Med** 1989 Oct;87(4):475 Comment in: Am J Med 1990 May;88(5):548.

Efficacy of single-agent therapy for the treatment of acute pelvic inflammatory disease with ciprofloxacin. Crombleholme WR, et al. **Am J Med** 1989 Nov 30; 87(5A):142S–147S

Prospective, controlled, randomized non-blind comparison of intravenous/oral ciprofloxacin with intravenous ceftazidime in the treatment of skin or soft-tissue infections. Dominguez J, et al. **Am J Med** 1989 Nov 30; 87(5A):136S–137S

Eradication of non-typhi Salmonella colonization by ciprofloxacin: implications for health care workers and institutionalized patients. Eng RH, et al. **Am J Med** 1990 Sep;89(3):386–8

Comparison of the safety and efficacy of intravenous ciprofloxacin and intravenous ceftazidime in the treatment of selected infections. Gallis HA, et al. **Am J Med** 1989 Nov 30;87(5A):176S–180S

Intravenous/oral ciprofloxacin versus intravenous ceftazidime in the treatment of serious gram-negative infections of the skin and skin structure. Gentry LO, et al. **Am J Med** 1989 Nov 30;87(5A):132S–135S

Superinfection with Streptococcus pneumoniae during therapy with ciprofloxacin. Gordon JJ, et al. **Am J Med** 1990 Sep;89(3):383–4

Ciprofloxacin (intravenous/oral) versus ceftazidime in lower respiratory tract infections. Haddow A, et al. **Am J Med** 1989 Nov 30;87(5A):113S–115S

Antibiotic prophylaxis in biliary tract surgery. Ciprofloxacin versus ceftriaxone. Kujath P. **Am J Med** 1989 Nov 30; 87(5A):255S–257S

Randomized, double-blind comparative study of intravenous ciprofloxacin versus ceftazidime in the treatment of serious infections. Levine DP, et al. **Am J Med** 1989 Nov 30; 87(5A):160S–163S

Sequential intravenous/oral ciprofloxacin compared with intravenous ceftazidime in the treatment of serious lower respiratory tract infections. Menon L, et al. **Am J Med** 1989 Nov 30;87(5A):119S–120S

Ciprofloxacin versus ceftazidime in serious infections. Reinhardt JF, et al. **Am J Med** 1989 Nov 30; 87(5A):181S–182S

Ciprofloxacin treatment of malignant external otitis. Sadé J, et al. **Am J Med** 1989 Nov 30;87(5A):138S–141S

Ciprofloxacin in the treatment of gram-negative bacillary meningitis. Schönwald S, et al. **Am J Med** 1989 Nov 30; 87(5A):248S–249S

Ciprofloxacin treatment of sternal wound infections following open heart surgery. Soroko T, et al. **Am J Med** 1989 Nov 30;87(5A):240S–242S

Randomized study of intravenous/oral ciprofloxacin versus ceftazidime in the treatment of hospital and nursing home patients with lower respiratory tract infections. Trenholme GM, et al. **Am J Med** 1989 Nov 30;87(5A):116S–118S

Ciprofloxacin in the treatment of legionellosis in critically ill patients including those cases unresponsive to erythromycin. Unertl KE, et al. **Am J Med** 1989 Nov 30; 87(5A):128S–131S

Disseminated Mycobacterium fortuitum successfully treated with combination therapy including ciprofloxacin. Burns DN, et al. **Am Rev Respir Dis** 1990 Aug;142(2):468–70

Treatment of disseminated Mycobacterium avium complex infection in AIDS with amikacin, ethambutol, rifampin, and ciprofloxacin. California Collaborative Treatment Group. Chiu J, et al. **Ann Intern Med** 1990 Sep 1; 113(5):358–61

In vitro activities of combinations of aztreonam, ciprofloxacin, and ceftazidime against clinical isolates of Pseudomonas aeruginosa and Pseudomonas cepacia from patients with cystic fibrosis. Bosso JA, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):487–8

Oral ciprofloxacin versus ceftriaxone for the treatment of urethritis from resistant Neisseria gonorrhoeae in Zambia. Bryan JP, et al. **Antimicrob Agents Chemother** 1990 May; 34(5):819–22

Oral ciprofloxacin treatment of Pseudomonas aeruginosa osteomyelitis. Dan M, et al. **Antimicrob Agents Chemother** 1990 May;34(5):849–52

Comparative efficacies of ciprofloxacin, pefloxacin, and vancomycin in combination with rifampin in a rat model of methicillin-resistant Staphylococcus aureus chronic osteomyelitis. Dworkin R, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1014–6

Oral ciprofloxacin compared with parenteral antibiotics in the treatment of osteomyelitis. Gentry LO, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):40–3

Ciprofloxacin and rifampin, alone and in combination, for therapy of experimental Staphylococcus aureus endocarditis. Kaatz GW, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1184–7

Ciprofloxacin therapy of experimental endocarditis caused by methicillin-resistant Staphylococcus epidermidis. Rouse MS, et al. **Antimicrob Agents Chemother** 1990 Feb; 34(2):273–6

Activities of ciprofloxacin and ofloxacin against rapidly growing mycobacteria with demonstration of acquired resistance following single-drug therapy. Wallace RJ Jr, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):65–70

Ciprofloxacin in neonatal Enterobacter cloacae septicaemia. Bannon MJ, et al. **Arch Dis Child** 1989 Oct;64(10 Spec No):1388–91

Empiric antimicrobial therapy of domestically acquired acute diarrhea in urban adults. Goodman LJ, et al. **Arch Intern Med** 1990 Mar;150(3):541–6

Evaluation of intravenous ciprofloxacin in patients with nosocomial lower respiratory tract infections. Impact of plasma concentrations, organism, minimum inhibitory concentration, and clinical condition on bacterial eradication. Peloquin CA, et al. **Arch Intern Med** 1989 Oct; 149(10):2269–73

Caution indicated in prescribing ciprofloxacin [letter; comment] Pickard RE. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):742 Comment on: Arch Otolaryngol Head Neck Surg 1989 Sep;115(9):1063–9.

Treating malignant otitis with oral ciprofloxacin. Hickey SA, et al. **BMJ** 1989 Aug 26;299(6698):550–1

Relapsing yersinia infection. Read RC, et al. **BMJ** 1990 Jun 30;300(6741):1694

Options and limitations of long-term oral ciprofloxacin as antibacterial prophylaxis in allogeneic bone marrow transplant recipients. De Pauw BE, et al. **Bone Marrow Transplant** 1990 Mar;5(3):179–82

Relative costs of antirheumatic drugs [letter] Bamji AN, et al. **Br J Rheumatol** 1989 Dec;28(6):546

Norfloxacin, ciprofloxacin, and ofloxacin: current clinical roles. Hooper DC, et al. **Curr Clin Top Infect Dis** 1989; 10:194–240 (295 ref.)

Ciprofloxacin symposium: major advances in intravenous and oral quinolone therapy. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):77–196

Intravenous and oral ciprofloxacin versus intravenous ceftazidime for the treatment of severe urinary tract infections. Childs SJ. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):161–3

A prospective, double-blind, randomized study comparing the efficacy and safety of low-dose ciprofloxacin with ampicillin in the treatment of bronchitis. Chmel H, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):149–51

Economic impact of oral ciprofloxacin following standard intravenous therapy. Fliegelman RM, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):187–9

Intravenous and oral ciprofloxacin in the therapy of serious infections. Gibert CL, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):173–6

Ciprofloxacin as single-dose antibiotic prophylaxis in colorectal surgery. Results of a randomized, double-blind trial. Görtz G, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):181–5

Metabolic interactions of ciprofloxacin. Ludwig E, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):135–41

Parenteral ciprofloxacin compared with ceftazidime in the treatment of serious upper and lower urinary tract infection. Palmer DL, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):157–60

Prospective randomized study comparing the efficacy and safety of ciprofloxacin with cefaclor in the treatment of patients with purulent bronchitis. Quenzer RW, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):143–8

Ciprofloxacin in the treatment of Pseudomonas infection in children with cystic fibrosis. Rubio TT. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):153–5

Comparison of intravenous ciprofloxacin with ceftazidime in the treatment of serious soft tissue infections. Tice AD, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):165–7

Ciprofloxacin in the treatment of Staphylococcus aureus osteomyelitis. A review. Wispelwey B, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):169–71 (28 ref.)

Ciprofloxacin drug utilization review and prospective drug use evaluation. Goldman MP. **DICP** 1990 Jan;24(1):82–6

Evaluation of pefloxacin, ofloxacin and ciprofloxacin in the treatment of thirty-nine cases of chronic osteomyelitis. Dellamonica P, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec;8(12):1024–30

Single-dose ciprofloxacin in the treatment of uncomplicated urinary tract infection in women. Raz R, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec;8(12):1040–2

Increasing incidence of Corynebacterium group D2 strains resistant to norfloxacin and ciprofloxacin [letter] Soriano F, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec; 8(12):1117–8

Clinical experience with ciprofloxacin: analysis of a multicenter study. Karimi K. **Indiana Med** 1990 Apr; 83(4):266–9

Eradication of Salmonella dublin in an immunodeficient child by combined use of ceftriaxone and ciprofloxacin after failure of either agent alone [letter] Hoppe JE, et al. **Infection** 1989 Nov–Dec;17(6):399–400

Pathogenesis and chemotherapy of experimental Legionella pneumophila infection in the chick embryo. Tzianabos AO, et al. **Int J Med Microbiol** 1989 Sep;271(3):293–303

Electron microscopy of the pathology and chemotherapy of Legionella pneumophila infection in the chick embryo. Tzianabos AO, et al. **Int J Med Microbiol** 1989 Oct; 271(4):466–74

Eradication of methicillin-resistant Staphylococcus aureus colonization with ciprofloxacin [letter] Spetalnick BM, et al. **J Am Geriatr Soc** 1990 Mar;38(3):389–90

Use of ciprofloxacin in podiatric medicine. LeFrock JL. **J Am Podiatr Med Assoc** 1989 Oct;79(10):497–9

Ciprofloxacin versus amoxycillin/clavulanic acid in the treatment of urinary tract infections in general practice. Abbas AM, et al. **J Antimicrob Chemother** 1989 Aug; 24(2):235–9

The successful treatment of multiresistant nonenteric salmonellosis with seven day oral ciprofloxacin [letter] Barnass S, et al. **J Antimicrob Chemother** 1990 Feb; 25(2):299–300

Persistence of Pseudomonas aeruginosa during ciprofloxacin therapy of a cystic fibrosis patient: transient resistance to quinolones and protein F-deficiency. Chamberland S, et al. **J Antimicrob Chemother** 1990 Jun;25(6):995–1010

Oral ciprofloxacin in the treatment of peritonitis in patients on continuous ambulatory peritoneal dialysis. Fleming LW, et al. **J Antimicrob Chemother** 1990 Mar;25(3):441–8

Ciprofloxacin in combined renal and hepatic impairment [letter] Fraise AP, et al. **J Antimicrob Chemother** 1990 Feb; 25(2):297–8

Oral ciprofloxacin therapy for infections in cancer patients. Haron E, et al. **J Antimicrob Chemother** 1989 Dec; 24(6):955–62

A comparative study of intravenous ciprofloxacin and benzylpenicillin versus netilmicin and piperacillin for the empirical treatment of fever in neutropenic patients. Kelsey SM, et al. **J Antimicrob Chemother** 1990 Jan;25(1):149–57

Intraperitoneal treatment of CAPD peritonitis with ciprofloxacin. Ludlam H, et al. **J Antimicrob Chemother** 1989 Oct;24(4):621–2

Intraperitoneal ciprofloxacin for the treatment of peritonitis in patients receiving continuous ambulatory peritoneal dialysis (CAPD). Ludlam HA, et al. **J Antimicrob Chemother** 1990 May;25(5):843–51

Controlled prospective study of oral amoxycillin/clavulanate vs ciprofloxacin in acute exacerbations of chronic bronchitis. Schmidt EW, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:185–93

Clinical and pharmacokinetic aspects of ciprofloxacin in the treatment of acute exacerbations of pseudomonas infection in cystic fibrosis patients. Steen HJ, et al. **J Antimicrob Chemother** 1989 Nov;24(5):787–95

Clinical experience with ciprofloxacin. Hann JR, et al. **J Arkansas Med Soc** 1989 Sep;86(4):156–8

Oral ciprofloxacin for treatment of acute bacterial pharyngotonsillitis. Esposito S, et al. **J Chemother** 1990 Apr;2(2):108–12

Treatment with ciprofloxacin of Aeromonas hydrophila associated colitis in a male with antibodies to the human immunodeficiency virus. Liao WC, et al. **J Clin Gastroenterol** 1989 Oct;11(5):552–4

Ciprofloxacin: a study of usage in pedal infections with case reports. Notari MA, et al. **J Foot Surg** 1989 Nov–Dec; 28(6):521–3

Patients receiving quinolones and cyclosporine after heart

transplantation. Robinson JA, et al. **J Heart Transplant** 1990 Jan–Feb;9(1):30–1
Successful treatment of malignant otitis externa with oral ciprofloxacin [letter; comment] Hickey SA, et al. **J Infect** 1990 Jan;20(1):90 Comment on: J Infect 1989 May;18(3):298–9.
Acute epididymo–orchitis caused by Pseudomonas aeruginosa and treated with ciprofloxacin. Humphreys H, et al. **J Infect** 1989 Nov;19(3):257–61
Vibrio vulnificus wound infection treated successfully with oral ciprofloxacin [letter] Meadors MC, et al. **J Infect** 1990 Jan;20(1):88–9
Therapy for shigellosis. II. Randomized, double-blind comparison of ciprofloxacin and ampicillin. Bennish ML, et al. **J Infect Dis** 1990 Sep;162(3):711–6
Ciprofloxacin in the treatment of Helicobacter pylori in patients with gastritis and peptic ulcer. Forsmark CE, et al. **J Infect Dis** 1990 Oct;162(4):998–9
Successful treatment of malignant external otitis with oral ciprofloxacin: report of experience with 23 patients. Lang R, et al. **J Infect Dis** 1990 Mar;161(3):537–40
Clinical experience with ciprofloxacin: analysis of a multicenter study. Hays DJ, et al. **J Ky Med Assoc** 1989 Oct;87(10):506–9
Clinical experience with ciprofloxacin: analysis of a multicenter study. Hines CH, et al. **J La State Med Soc** 1989 Dec;141(12):39–42
Salmonella septic arthritis: additional 2 cases with quinolone treatment [letter] Praet JP, et al. **J Rheumatol** 1989 Dec; 16(12):1610–1
Ciprofloxacin compared with doxycycline for nongonococcal urethritis. Ineffectiveness against Chlamydia trachomatis due to relapsing infection. Hooton TM, et al. **JAMA** 1990 Sep 19;264(11):1418–21
Ciprofloxacin resistance and staphylococcal endocarditis [letter; comment] **Lancet** 1989 Dec 23–30; 2(8678–8679):1525–6 Comment on: Lancet 1989 Nov 4;2(8671):1071–3.
Eradication of Salmonella by oral ciprofloxacin in food handlers [letter] Damjanovic V, et al. **Lancet** 1990 Apr 21;335(8695):974
Treatment of right-sided Staphylococcus aureus endocarditis in intravenous drug users with ciprofloxacin and rifampicin [see comments] Dworkin RJ, et al. **Lancet** 1989 Nov 4; 2(8671):1071–3 Comment in: Lancet 1989 Dec 23–30;2(8678–8679):1525–6.
Single-dose ciprofloxacin for shigellosis [letter] Williams HM, et al. **Lancet** 1990 Jun 2;335(8701):1343–4
Hospital outbreak of Salmonella enteritidis infection treated with ciprofloxacin [letter] Willocks LJ, et al. **Lancet** 1990 Jun 9;335(8702):1404–5
Ciprofloxacin [letter] Sterman BM. **Laryngoscope** 1989 Nov; 99(11):1211–2
Ciprofloxacin in a case of Q fever endocarditis [letter] Yebra M, et al. **N Engl J Med** 1990 Aug 30;323(9):614
Oral ciprofloxacin for osteomyelitis. MacGregor RR, et al. **Orthopedics** 1990 Jan;13(1):55–60
Current therapy of malignant external otitis. Strauss M. **Otolaryngol Head Neck Surg** 1990 Feb;102(2):174–6
Two different dosages of ciprofloxacin in patients with respiratory tract infections. Brutel de la Rivière T, et al. **Pharm Weekbl [Sci]** 1989 Aug 25;11(4):121–3
Oral clindamycin and ciprofloxacin therapy for diabetic foot infections [retracted by Scheife RT. In: Pharmacotherapy 1990;10(4):261] Sesin GP, et al. **Pharmacotherapy** 1990; 10(2):154–6
Ciprofloxacin. Best use of this new broad-spectrum antibiotic. Fass RJ. **Postgrad Med** 1990 Jun;87(8):117–22, 124, 127–31 (43 ref.)
Treatment of multiple subcutaneous Nocardia asteroides abscesses with ciprofloxacin and doxycycline. Bath PM, et al. **Postgrad Med J** 1989 Mar;65(761):190–1
Quinolone therapy of Klebsiella pneumoniae sepsis following irradiation: comparison of pefloxacin, ciprofloxacin, and ofloxacin. Brook I, et al. **Radiat Res** 1990 May;122(2):215–7
Prevention of infection in the neutropenic patient. Verhoef J, et al. **Rev Infect Dis** 1989 Nov–Dec;11 Suppl 7:S1545–50
Bay o 9867 (ciprofloxacin) in the treatment of urinary tract infections in elderly patients. Vellucci A, et al. **Riv Eur Sci Med Farmacol** 1988 Aug;10(4):333–9
Treatment of experimental Escherichia coli pyelonephritis in rat by ciprofloxacin in comparison with tobramycin. Lecomte F, et al. **Scand J Infect Dis** 1990;22(1):75–8
Ciprofloxacin in treatment of chronic bacterial prostatitis. Childs SJ. **Urology** 1990 Jan;35(1 Suppl):15–8 (16 ref.)
[Ciprofloxacin in bacterial infections] Belovezhdov N, et al. **Vutr Boles** 1989;28(5):20–4 (Eng. Abstr.) **(Bul)**
[Chronic bone infections after surgery. Treatment with the new quinolones] Bricaire F, et al. **Presse Med** 1989 Sep 16;18(28):1383–6 (Eng. Abstr.) **(Fre)**
[Prevention of bacterial infections using ciprofloxacin in granulocytopenic patients with cancer] Snoeck R, et al. **Rev Med Brux** 1989 Dec;10(10):408–13 (Eng. Abstr.) **(Fre)**
[Ciprofloxacin in the treatment of Legionnaires' disease] Zabel L, et al. **Pneumologie** 1990 Jun;44(6):826–8 (Eng. Abstr.) **(Ger)**
[Prophylaxis using quinolones in neutropenic patients. Preliminary results of a cooperative study by the Grupo Italiano Malattie Ematologiche maligne dell'adulto (GIMEMEA)] Del Favero A, et al. **Haematologica (Pavia)** 1989 Oct;74(5 Suppl):278–86 **(Ita)**
[Ciprofloxacin in urinary infections: analysis of the Italian data pool] Maggiolo F, et al. **Minerva Urol Nefrol** 1989 Jul–Sep;41(3):201–5 (Eng. Abstr.) **(Ita)**
[Effectiveness of ciprofloxacin in bacterial infections of the respiratory and gastrointestinal tract] Sforza E, et al. **Riv Eur Sci Med Farmacol** 1988 Dec;10(6):533–7 (Eng. Abstr.) **(Ita)**
[Results of ciprofloxacin therapy in urinary and respiratory tract infections] Polubiec A, et al. **Pol Tyg Lek** 1990 Jan 22–29;45(4–5):85–9 (Eng. Abstr.) **(Pol)**
[Experience in using new drug preparations for treating adult patients with acute intestinal infections] Mashilov VP, et al. **Ter Arkh** 1990;62(1):89–92 (Eng. Abstr.) **(Rus)**
[The use of ciprofloxacin in patients with osteomyelitis associated with vascular insufficiency] García-Rosario LN, et al. **Bol Asoc Med P R** 1990 Mar;82(3):125–8 (16 ref.) (Eng. Abstr.) **(Spa)**

TOXICITY

Ciprofloxacin: toxicologic evaluation of additional safety data. Schluter G. **Am J Med** 1989 Nov 30;87(5A):37S–39S
Ciprofloxacin-induced photosensitivity: in vitro and in vivo studies. Ferguson J, et al. **Br J Dermatol** 1990 Jul; 123(1):9–20
Cytotoxicity and uptake of pefloxacin, ciprofloxacin, and ofloxacin in primary cultures of rat hepatocytes. Nordmann P, et al. **J Antimicrob Chemother** 1989 Sep;24(3):355–63

CIRCADIAN RHYTHM

see related
PERIODICITY

Genetically based animal model of depression: circadian rhythm of motor activity. Golda V, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):140–2
Quantitative study of circadian variations in mast cell number in different regions of the mouse. Chen XJ, et al. **Acta Anat (Basel)** 1989;136(3):222–5
Red cell sorbitol concentration in relation to short- and medium-term variation of plasma glucose. Lapolla A, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):211–6
Episodic nyctohemeral secretion of melatonin in adult humans: lack of relation with LH pulsatile pattern. de Leiva A, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):76–82
Failure of pyridostigmine to increase both basal and GHRH-induced GH secretion in the night. Ghigo E, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):37–40
Circadian phase diagrams of oral temperature and urinary functions in a healthy man studied "longitudinally". Haus E, et al. **Acta Endocrinol (Copenh)** 1966 Feb;51(2):215–23
Influence of environmental temperature and photoperiod on temporal structure of sleep in corvids. Szymczak JT. **Acta Neurobiol Exp (Warsz)** 1989;49(6):359–66
Epidemiological chronorisk of stroke. Pasqualetti P, et al. **Acta Neurol Scand** 1990 Jan;81(1):71–4
Hereditary progressive dystonia with marked diurnal fluctuation: report of a case. Hwu WL, et al. **Acta Paediatr Sin** 1989 Jan–Feb;30(1):46–51
Pineal serotonin N-acetyltransferase and hydroxyindole-O-methyltransferase activities in vizcacha (Lagostomus maximus maximus) maintained under various photoperiods. Pelzer LE, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):299–305
Atrial natriuretic peptide, renin activity, aldosterone, urine volume and electrolytes during a 24-h sleep-wake cycle in man. Leppäluoto J, et al. **Acta Physiol Scand** 1990 May; 139(1):47–53
Prevalence of reported sleeplessness in northern Norway in relation to sex, age and season. Husby R, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):542–7
Annual rhythms of violence in hospitalized affective patients: correlation with changes in the duration of the daily photoperiod. Roitman G, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):73–6
Diurnal and individual variations in bile acids in the plasma of normal dairy cows. Abdelkader SV, et al. **Acta Vet Scand** 1989;30(2):221–8
Chronically administered morphine, circadian cyclicity, and intake of an alcoholic beverage. Choi HW, et al. **Alcohol** 1990 Jan–Feb;7(1):7–10
Circadian variation in myocardial ischemia: the 24-hour antianginal effect of amlodipine. Proceedings of a symposium. Monte Carlo, Monaco, April 7, 1989. **Am Heart J** 1989 Nov;118(5 Pt 2):1083–140
Circadian patterns of myocardial ischemia. Fox K, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1084–6; discussion 1086–7 (16 ref.)
Circadian rhythms in cardiovascular disease. Quyyumi AA. **Am Heart J** 1990 Sep;120(3):726–33
Circadian rhythm of angina: similarity to circadian rhythms of myocardial infarction, ischemic ST segment depression, and sudden cardiac death. The Amlodipine Angina Study Group. Taylor CR, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1098–9
Decreased spontaneous heart rate variability in congestive heart failure. Casolo G, et al. **Am J Cardiol** 1989 Nov 15; 64(18):1162–7
Morning increase in the time of onset of sustained ventricular tachycardia. Twidale N, et al. **Am J Cardiol** 1989 Nov 15;64(18):1204–6
Comparison of substrate utilization by indirect calorimetry during cyclic and continuous total parenteral nutrition. Just B, et al. **Am J Clin Nutr** 1990 Jan;51(1):107–11
Urinary excretion of polyamines: importance of circadian rhythm, age, sex, menstrual cycle, weight, and creatinine excretion. Pöyhönen MJ, et al. **Am J Clin Nutr** 1990 Oct; 52(4):746–51
Diurnal variation in postabsorptive resting metabolic rate and diet-induced thermogenesis. Weststrate JA, et al. **Am J Clin Nutr** 1989 Nov;50(5):908–14
24-hour gastric pH-metry analysis: influence of arbitrarily predefined time intervals on the reliability of acidity indexes. Mela GS, et al. **Am J Gastroenterol** 1990 Apr; 85(4):381–4
Fatal nonthyroidal illness may impair nocturnal thyrotropin levels. Arem R, et al. **Am J Med** 1990 Mar;88(3):258–62
Recurrent nocturnal hypoglycemia in an insulin-dependent diabetic patient receiving a small daily dose of insulin. Walker JD, et al. **Am J Med** 1990 May;88(5):537–9
Nocturnal rhythm of growth hormone in Duchenne patients: effect of different doses of mazindol and/or cyproheptadine. Zatz M, et al. **Am J Med Genet** 1989 Aug; 33(4):457–67
Left ventricular performance during the course of a day and meals in dilated cardiomyopathy and heart failure. Rome MP, et al. **Am J Med Sci** 1989 Nov;298(5):289–94
Growth hormone secretory rates in children as estimated by deconvolution analysis of 24-h plasma concentration profiles. Albertsson-Wikland K, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):E809–14
Ultradian adrenocortical and circulatory oscillations in conscious dogs. Benton LA, et al. **Am J Physiol** 1990 Mar; 258(3 Pt 2):R578–90
24-hour blood pressure recordings in Dahl rats on high- and low-salt diets. Brown DR, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):R1225–31
Diurnal variations in vagal and sympathetic cardiac control. Hayano J, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H642–6
Defective regulation of thyroxine 5'-deiodinase in brown adipose tissue of ob/ob mice. Kates AL, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E7–15
Maternal pinealectomy alters the daily pattern of fetal breathing in sheep. McMillen IC, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R284–7
Circadian rhythms of biliary protein and lipid excretion in rats. Nakano A, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G653–9
Development of circadian cycle of core temperature in juvenile rats. Nuesslein B, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 2):R270–6
Phase-shifting the light-dark cycle resets the food-entrainable circadian pacemaker. Ottenweller JE, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R994–1000
Involvement of proteins in light resetting ocular circadian oscillators of Aplysia. Raju U, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R256–62
Entrainment of circadian phase in developing gray short-tailed opossums: mother vs. environment. Rivkees SA, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E384–8
Circadian variation of thermoregulatory responses during exercise in rats. Tanaka H, et al. **Am J Physiol** 1990 Apr; 258(4 Pt 2):R836–41
Circadian rhythms and patterns of performance before and after simulated jet lag. Tapp WN, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R796–803
Differential roles of splanchnic and peripheral tissues in determining diurnal fluctuation of glucose tolerance. Verrillo A, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E459–65
Apparent phase advance in diurnal MHPG rhythm in depression. Gwirtsman HE, et al. **Am J Psychiatry** 1989 Nov;146(11):1427–33
Plasma concentrations of melatonin in panic disorder. McIntyre IM, et al. **Am J Psychiatry** 1990 Apr;147(4):462–4
Contribution of changing rhythmicity of hypothalamic neurotransmitter function to female reproductive aging. Wise PM, et al. **Ann N Y Acad Sci** 1990;592:31–43; discussion 44–51 (90 ref.)
Diel pattern of oviposition in the laboratory of the mosquito Aedes albopictus (Skuse) (Diptera: Culicidae). Chadee DD, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):423–9
Neurotransmitters in the mammalian circadian system. Rusak B, et al. **Annu Rev Neurosci** 1990;13:387–401 (99 ref.)
Difference between evening and morning thyrotropin responses to protirelin in major depressive episode. Duval F, et al. **Arch Gen Psychiatry** 1990 May;47(5):443–8
Morning vs evening light treatment for winter depression. Evidence that the therapeutic effects of light are mediated by circadian phase shifts. Sack RL, et al. **Arch Gen Psychiatry** 1990 Apr;47(4):343–51
Effects of meals and time of day on postural blood pressure responses in young and elderly subjects. Mader SL. **Arch Intern Med** 1989 Dec;149(12):2757–60
Identifying patients with incipient diabetic nephropathy. Should 24-hour urine collections be used? Stehouwer CD, et al. **Arch Intern Med** 1990 Feb;150(2):373–5
A topographical study of the circadian rhythm in labelling index of mouse gingival and floor-of-mouth epithelium, including changes in labelling activity with individual cell position on the epithelial ridges. Kellett M, et al. **Arch Oral Biol** 1989;34(5):321–8
Seasonal effects on the daily variations of gentamicin-induced nephrotoxicity. Pariat C, et al. **Arch Toxicol** 1990;64(3):205–9

Circadian variation of fibrinolytic activity among Eskimos in Greenland. Johansen LG, et al. **Arctic Med Res** 1989 Oct;48(4):204–7

Jet lag. Newble D, et al. **Aust Fam Physician** 1990 Feb; 19(2):153–5

Diurnal variations in intraocular pressure. Chronic open angle glaucoma: preliminary report. Henkind P, et al. **Aust J Ophthalmol** 1981 Aug;9(3):219–21

Periodic breathing and O2 saturation in relation to sleep stages at high altitude. Normand H, et al. **Aviat Space Environ Med** 1990 Mar;61(3):229–35

The pre- and postnatal development of hormonal circadian rhythms. McMillen IC, et al. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):707–21 (60 ref.)

High-resolution analysis of locomotor activity rhythms in disconnected, a visual-system mutant of Drosophila melanogaster. Dowse HB, et al. **Behav Genet** 1989 Jul; 19(4):529–42

Marked rapid alterations in nocturnal pineal serotonin metabolism in mice and rats exposed to weak intermittent magnetic fields. Lerchl A, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):102–8

Co-ordinate diurnal variations in the activities of cholesterol-metabolizing enzymes in the rat mammary gland. Shand JH, et al. **Biochem Soc Trans** 1989 Dec; 17(6):1081–2

Biological rhythms in psychiatry: order and disorder. Society of Biological Psychiatry. Forty-fifth annual convention & scientific program. May 9–13, 1990, New York, New York. Program and abstracts. **Biol Psychiatry** 1990 May 1; 27(9A):1A–189A

Twenty-four hour urinary cortisol and catecholamine excretion in combat-related posttraumatic stress disorder. Pitman RK, et al. **Biol Psychiatry** 1990 Jan 15;27(2):245–7

Diurnal rhythm in the plasma concentration of cortisol in paediatric patients with orthostatic dysregulation. Shibasaki H, et al. **Biomed Environ Mass Spectrom** 1990 Apr; 19(4):225–9

The effect of the circadian rhythm of vagal activity on bronchomotor tone in asthma. Morrison JF, et al. **Br J Clin Pharmacol** 1989 Nov;28(5):545–9

Comparison of the effect of acetazolamide tablets and sustets on diurnal intraocular pressure in patients with chronic simple glaucoma. Joyce PW, et al. **Br J Ophthalmol** 1990 Jul;74(7):413–6

Diurnal insulin and glucose profiles following transplantation of fresh and cryopreserved canine pancreatic islets. Walsh TN, et al. **Br J Surg** 1989 Dec;76(12):1287–90

The loss of circadian rhythmicity of urinary solute excretion in idiopathic stone formers. Sidhu H, et al. **Br J Urol** 1989 Oct;64(4):333–5

Rhythmic occurrence of sexual behavior and egg laying activity of Muscovy ducks. Raud H, et al. **Br Poult Sci** 1990 Mar;31(1):23–32

Ontogenesis of diurnal rhythms of cAMP concentration, outer segment disc shedding and retinomotor movements in the eye of the brown trout, Salmo trutta. McCormack CA, et al. **Brain Behav Evol** 1989;34(1):65–72

Circadian rhythms in spontaneous neuronal discharges of the cultured suprachiasmatic nucleus. Bos NP, et al. **Brain Res** 1990 Mar 12;511(1):158–62

Circadian rhythmicity after neural transplant to hamster third ventricle: specificity of suprachiasmatic nuclei. DeCoursey PJ, et al. **Brain Res** 1989 Oct 23;500(1-2):263–75

Diurnal variations in brain serotonin are driven by the photic cycle and are not circadian in nature. Ferraro JS, et al. **Brain Res** 1990 Mar 26;512(1):121–4

Calcium in phase control of the Bulla circadian pacemaker. Khalsa SB, et al. **Brain Res** 1990 Jan 1;506(1):40–5

Diurnal variation in the concentrations of catecholamines and indoleamines in the median eminence and in the intermediate and posterior lobes of the pituitary gland of the male rat. Koulu M, et al. **Brain Res** 1989 Dec 4; 503(2):246–52

Uric acid levels and dopamine transmission in rat striatum: diurnal changes and effects of drugs. O'Neill RD. **Brain Res** 1990 Jan 22;507(2):267–72

Olfactory bulb control of circadian activity rhythm in mice. Possidente B, et al. **Brain Res** 1990 Apr 16;513(2):325–8

Kinase inhibition lengthens the period of the circadian pacemaker in the eye of Bulla gouldiana. Roberts MH, et al. **Brain Res** 1989 Dec 18;504(2):211–5

Vasoactive intestinal peptide immunoreactive neurons in the rat suprachiasmatic nucleus demonstrate diurnal variation. Takahashi Y, et al. **Brain Res** 1989 Sep 18;497(2):374–7

Photoperiodic changes in opiate binding and their functional implications in golden hamsters. Tubbiola ML, et al. **Brain Res** 1989 Nov 27;503(1):91–9

Cyclic changes in dopamine and DOPAC content, and tyrosine hydroxylase activity in the retina of a cichlid fish. Wulle I, et al. **Brain Res** 1990 May 7;515(1-2):163–7

Do medial preoptic lesions interfere with the set-point of temperature regulation? Briese E. **Brain Res Bull** 1989 Jul-Aug;23(1-2):137–44

Lesions dorsal to the suprachiasmatic nuclei abolish split activity rhythms of hamsters. Harrington ME, et al. **Brain Res Bull** 1990 Apr;24(4):593–7

Activation of cerebrocortical type II 5'-deiodinase activity in Syrian hamsters kept under short photoperiod and reduced ambient temperature. Puig-Domingo M, et al. **Brain Res Bull** 1989 Jun;22(6):975–9

Photoperiodic responsiveness of hamsters with lesions of the lateral geniculate nucleus is related to hippocampal damage. Smale L, et al. **Brain Res Bull** 1990 Feb;24(2):185–90

Pineal lysosomal enzyme circadian rhythms in male hamsters exposed to natural decreasing photoperiod and temperature conditions. Vaughan MK, et al. **Brain Res Bull** 1990 Apr; 24(4):561–4

Day-night variation in prepro vasoactive intestinal peptide/peptide histidine isoleucine mRNA within the rat suprachiasmatic nucleus. Albers HE, et al. **Brain Res Mol Brain Res** 1990 Jan;7(1):85–9

Diurnal rhythm of vasopressin mRNA species in the rat suprachiasmatic nucleus: independence of neuroendocrine modulation and maintenance in explant culture. Carter DA, et al. **Brain Res Mol Brain Res** 1989 Dec;6(4):233–9

Morphological changes in the ommatidia of an ant in the day and night states. Felisberti F, et al. **Braz J Med Biol Res** 1989;22(9):1159–62

Infradian modulation of liver nucleic acid and lipid content of adult female Lewis/S rats. Marques N, et al. **Braz J Med Biol Res** 1989;22(12):1479–83

Survey of diurnal weight gain and urine volume in chronic schizophrenia. Vieweg WV, et al. **Can J Psychiatry** 1989 Nov;34(8):779–84

More evidence for circadian rhythm effects in cancer chemotherapy: the fluoropyrimidine story. Hrushesky WJ. **Cancer Cells** 1990 Mar;2(3):65–8 (35 ref.)

Circadian variation of 5-fluorouracil catabolism in isolated perfused rat liver. Harris BE, et al. **Cancer Res** 1989 Dec 1;49(23):6610–4

Relationship between dihydropyrimidine dehydrogenase activity and plasma 5-fluorouracil levels with evidence for circadian variation of enzyme activity and plasma drug levels in cancer patients receiving 5-fluorouracil by protracted continuous infusion. Harris BE, et al. **Cancer Res** 1990 Jan 1;50(1):197–201

Circadian rhythms of atrial natriuretic peptide, blood pressure and heart rate in normal subjects. Portaluppi F, et al. **Cardiology** 1989;76(6):428–32

Diurnal changes in actin mRNA levels and incorporation of 35S-methionine into actin in the rat hypothalamus. Iovanna J, et al. **Cell Mol Neurobiol** 1990 Jun;10(2):207–16

Measurement of melatonin in blood by radioimmunoassay. Analytical considerations and clinical usefulness. Plebani M, et al. **Childs Nerv Syst** 1990 Jun;6(4):220–1

Circadian rhythm variations in the adult rat induced by low and high protein diets administered at various stages of development. Gambardella P, et al. **Chronobiol Int** 1990; 7(1):43–50

Once-daily evening administration of Uniphyl tablets: announcement of first available chronotherapy of nocturnal asthma. Goldenheim PD. **Chronobiol Int** 1989;6(3):199–201

The circadian system and affective disorders: clocks or rhythms? Healy D, et al. **Chronobiol Int** 1990;7(1):5–10; discussion 11–24

Chronotoxicity of sodium valproate and its mechanisms in mice: dose-concentration-response relationship. Ohdo S, et al. **Chronobiol Int** 1989;6(3):229–35

Day-night differences in effects of cosmetic treatments on facial skin. Effects on facial skin appearance. Reinberg A, et al. **Chronobiol Int** 1990;7(1):69–79

Rhythms in the ovulatory cycle. 2nd: LH, FSH, estradiol and progesterone. Carandente F, et al. **Chronobiologia** 1989 Oct-Dec;16(4):353–63

Circadian rhythm parameters of endocrine functions in elderly subjects during the seventh to the ninth decade of life. Haus E, et al. **Chronobiologia** 1989 Oct-Dec; 16(4):331–52

Circadian and infradian aspects of the cell cycle: from past to future. Laerum OD, et al. **Chronobiologia** 1989 Oct-Dec; 16(4):441–53 (105 ref.)

Temporal organization—some reasons why it should not be ignored by biological researchers as well as by practicing oncologists. Scheving LE, et al. **Chronobiologia** 1989 Oct-Dec;16(4):307–29 (39 ref.)

The chronopathology of breast pre-cancer. Simpson HW, et al. **Chronobiologia** 1989 Oct-Dec;16(4):365–72

Societal synchronization in groups of rats or quail submitted to various lighting regimens. Stupfel M, et al. **Chronobiologia** 1989 Jul-Sep;16(3):215–28

The effect of shift work on gastrointestinal (GI) function: a review. Vener KJ, et al. **Chronobiologia** 1989 Oct-Dec; 16(4):421–39 (83 ref.)

A chronomorphological structural model of rat thyroid gland. Vizzotto L, et al. **Chronobiologia** 1989 Jul-Sep; 16(3):207–14

Circadian variation of acute myocardial infarction and the effect of low-dose aspirin in a randomized trial of physicians. Ridker PM, et al. **Circulation** 1990 Sep; 82(3):897–902

Increased morning incidence of myocardial infarction in the ISAM Study: absence with prior beta-adrenergic blockade. ISAM Study Group. Willich SN, et al. **Circulation** 1989 Oct;80(4):853–8

Circadian variations in cardiovascular disease. Becker RC, et al. **Cleve Clin J Med** 1989 Oct;56(7):676–80 (60 ref.)

Parkinson's disease and hypotension: 24-hour blood pressure recording in ambulant patients. Brevetti G, et al. **Clin Cardiol** 1990 Jul;13(7):474–8

A study of diurnal changes in cortisol and glucose levels and FDPA activity in foals during the first 13 weeks of life and in their lactating mothers. Flisińska-Bojanowska A, et al. **Comp Biochem Physiol [A]** 1989;94(2):283–8

Development of diurnal rhythm in some metabolic parameters in foals. Komosa M, et al. **Comp Biochem Physiol [A]** 1990;95(4):549–52

Retrospective study of temperature rhythms of intensive care patients. Tweedie IE, et al. **Crit Care Med** 1989 Nov; 17(11):1159–65

Diurnal and long-term variations in corneal thickness in the normal and alloxan-induced diabetic rabbit. Herse PR. **Curr Eye Res** 1990 May;9(5):451–7

Expression of a Drosophila mRNA is under circadian clock control during pupation. Lorenz LJ, et al. **Development** 1989 Dec;107(4):869–80

Effect of temporal distribution of calories on diurnal patterns of glucose levels and insulin secretion in NIDDM. Beebe CA, et al. **Diabetes Care** 1990 Jul;13(7):748–55

Postprandial oscillatory patterns of blood glucose and insulin in NIDDM. Abnormal diurnal insulin secretion patterns and glucose homeostasis independent of obesity. Calles-Escandon J, et al. **Diabetes Care** 1989 Nov-Dec; 12(10):709–14

Failure of nocturnal hypoglycemia to cause daytime hyperglycemia in patients with IDDM. Hirsch IB, et al. **Diabetes Care** 1990 Feb;13(2):133–42

Evening insulin strategy. Riddle MC. **Diabetes Care** 1990 Jun;13(6):676–86 (81 ref.)

Diurnal variation in glucose and leucine metabolism in non-insulin-dependent diabetes. Umpleby AM, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):89–96

Nocturnal spikes of growth hormone secretion cause the dawn phenomenon in type 1 (insulin-dependent) diabetes mellitus by decreasing hepatic (and extrahepatic) sensitivity to insulin in the absence of insulin waning. Perriello G, et al. **Diabetologia** 1990 Jan;33(1):52–9

Circadian profile and production rate of melatonin in the cow. Berthelot X, et al. **Domest Anim Endocrinol** 1990 Jul; 7(3):315–22

The effect of diurnal rhythms on the hepatotoxicity of thioacetamide in male and female rats. Lawrence GM, et al. **Drug Metabol Drug Interact** 1988;6(3–4):359–70

The possible role of endogenous digitalis-like substance in the regulation of circadian changes in urinary electrolyte excretion in man. Morise T, et al. **Endocrinol Jpn** 1989 Dec;36(6):845–50

Circadian and seasonal variations in iodine excretion in children with and without endemic goiter. Nicolau GY, et al. **Endocrinologie** 1989 Apr-Jun;27(2):73–86

Effects of immunoneutralization of corticotropin-releasing hormone on ultradian rhythms of plasma adrenocorticotropin. Carnes M, et al. **Endocrinology** 1990 Apr;126(4):1904–13

Role of serotonin in nocturnal and diurnal surges of prolactin in the pregnant rat. Mistry A, et al. **Endocrinology** 1989 Dec;125(6):2875–80

Diurnal variation of serum progesterone, but not relaxin, prolactin, or estradiol-17 beta in the pregnant bitch. Steinetz BG, et al. **Endocrinology** 1990 Sep;127(3):1057–63

Developmental changes and daily rhythm in melatonin-induced inhibition of 3',5'-cyclic AMP accumulation in the rat pituitary. Vanecek J, et al. **Endocrinology** 1990 Mar;126(3):1509–13

Aging progressively decreases the densities and alters the diurnal rhythms of alpha 1-adrenergic receptors in selected hypothalamic regions. Weiland NG, et al. **Endocrinology** 1990 May;126(5):2392–7

Circadian influence on effect of propranolol on exercise-induced tachycardia in healthy subjects. Fujimura A, et al. **Eur J Clin Pharmacol** 1990;38(2):133–7

Effect of chronic oral furosemide administration on the 24-hour cycle of lithium clearance and electrolyte excretion in humans. Shalmi M, et al. **Eur J Clin Pharmacol** 1990;38(3):275–80

Growth hormone (GH) and GH-releasing hormone response to ACTH 1-17 at different times of day. Evidence of a circadian stage dependence. Touitou Y, et al. **Eur J Clin Pharmacol** 1990;38(2):149–52

Daily fluctuation of impulses and emotions in healthy individuals. Madjirova N. **Folia Med (Plovdiv)** 1989; 31(1):26–35

Circadian rhythms in the number of gastrin cells, DNA synthesizing cells and labelling index of gastrin cells in the antral mucosa of the rat. Fukuchi Y. **Gastroenterol Jpn** 1990 Feb;25(1):8–14

Absence of daily cycles in plasma sex steroids in male and female tuatara (Sphenodon punctatus), and the effects of acute capture stress on females. Cree A, et al. **Gen Comp Endocrinol** 1990 Jul;79(1):103–13

Nocturnal increase in pineal melatonin production in two lemming species, Dicrostonyx hudsonius and D. groenlandicus. Reiter RJ, et al. **Gen Comp Endocrinol** 1990 May;78(2):322–5

Phenotypic and genetic analysis of Clock, a new circadian rhythm mutant in Drosophila melanogaster. Dushay MS, et al. **Genetics** 1990 Jul;125(3):557–78

Diminished diurnal secretion of corticosterone in aging female but not male rats. Goya RG, et al. **Gerontology** 1989; 35(4):181–7

Reproducibility of continuous 24 hour oesophageal pH monitoring in infants and children. Vandenplas Y, et al. **Gut** 1990 Apr;31(4):374–7

Diurnal variations in unconjugated plasma and total urinary estriol levels in late normal pregnancy. Bernstein D, et al.

Gynecol Endocrinol 1989 Jun;3(2):99–106
Circadian variation of pain sensitivity in pericranial musculature. Göbel H, et al. Headache 1990 Jun; 30(7):418–22
Aerobic fitness and the diurnal rhythm of blood pressure in adolescents. Harshfield GA, et al. Hypertension 1990 Jun;15(6 Pt 2):810–4
Circadian variation in urinary adrenaline levels in the rat after swimming exposure. Sudo A. Ind Health 1989; 27(3):135–9
Effect of bone injury on circadian periodicity of plasma 17-hydroxy corticosteroids (17-OHCS) in rabbits. Singh S, et al. Indian J Exp Biol 1989 Mar;27(3):297–9
Estimation of 24 hour protein excretion from single random urine specimen. Siwach SB, et al. Indian J Med Res 1990 Apr;92:105–8
Light-driven diurnal zonation in the filamentous fungus Fusarium solani. Das J, et al. Int J Dev Biol 1990 Jun; 34(2):319–22
Assessment of dietary nitrate intake by a self-administered questionnaire and by overnight urinary measurement. Van den Brandt PA, et al. Int J Epidemiol 1989 Dec;18(4):852–7
Circadian rhythm of energy intake and corpulence status in adults. Fricker J, et al. Int J Obes 1990;14(5):387–93
Analysis and comparison of cercarial emergence rhythms of Schistosoma haematobium, S. intercalatum, S. bovis, and their hybrid progeny. Pages JR, et al. Int J Parasitol 1990 Apr;20(2):193–7
Uptake and clearance rates of biotin in pig plasma following biotin injections. Bryant KL, et al. Int J Vitam Nutr Res 1990;60(1):52–7
Sources of variability in repeated T-helper lymphocyte counts from human immunodeficiency virus type 1–infected patients: total lymphocyte count fluctuations and diurnal cycle are important. Malone JL, et al. J Acquir Immune Defic Syndr 1990;3(2):144–51
Diurnal variations of mood in depressed patients in relation to severity of depression. Haug HJ, et al. J Affective Disord 1990 May;19(1):37–41
The daily course of the symptomatology and the impaired time estimation in endogenous depression (melancholia). Kuhs H, et al. J Affective Disord 1989 Nov–Dec; 17(3):285–90
Circadian rhythms in depression. Part I: Monitoring of the circadian body temperature rhythm. Tsujimoto T, et al. J Affective Disord 1990 Mar;18(3):193–7
Circadian rhythms in depression. Part II: Circadian rhythms in inpatients with various mental disorders. Tsujimoto T, et al. J Affective Disord 1990 Mar;18(3):199–210
Evaluation of three circadian rhythm questionnaires with suggestions for an improved measure of morningness. Smith CS, et al. J Appl Psychol 1989 Oct;74(5):728–38
Regulation of cholesterol 7 alpha-hydroxylase in the liver. Purification of cholesterol 7 alpha-hydroxylase and the immunochemical evidence for the induction of cholesterol 7 alpha-hydroxylase by cholestyramine and circadian rhythm. Chiang JY, et al. J Biol Chem 1990 Mar 5; 265(7):3889–97
Rat liver cholesterol 7 alpha-hydroxylase. Pretranslational regulation for circadian rhythm. Noshiro M, et al. J Biol Chem 1990 Jun 15;265(17):10036–41
Hepatic P-450 cholesterol 7 alpha-hydroxylase. Regulation in vivo at the protein and mRNA level in response to mevalonate, diurnal rhythm, and bile acid feedback. Sundseth SS, et al. J Biol Chem 1990 Sep 5;265(25):15090–5
Circadian variation of cardiovascular disease and sympathetic activity. Muller JE, et al. J Cardiovasc Pharmacol 1987;10 Suppl 2:S104–9; discussion S110–1
The circadian bioluminescence rhythm of Gonyaulax is related to daily variations in the number of light-emitting organelles. Fritz L, et al. J Cell Sci 1990 Feb;95 (Pt 2):321–8
Increased growth hormone pulse frequency in acromegaly. Barkan AL, et al. J Clin Endocrinol Metab 1989 Dec; 69(6):1225–33
Lack of nocturnal serum thyrotropin surge after surgery. Bartalena L, et al. J Clin Endocrinol Metab 1990 Jan; 70(1):293–6
Inhibition of human platelet aggregation and thromboxane-B2 production by melatonin: evidence for a diurnal variation. Del Zar MM, et al. J Clin Endocrinol Metab 1990 Jan;70(1):246–51
Acute clonidine administration potentiates spontaneous diurnal, but not nocturnal, growth hormone secretion in normal short children. Ghigo E, et al. J Clin Endocrinol Metab 1990 Aug;71(2):433–5
Dynamics of 24-hour endogenous cortisol secretion and clearance in primary hypothyroidism assessed before and after partial thyroid hormone replacement. Iranmanesh A, et al. J Clin Endocrinol Metab 1990 Jan;70(1):155–61
Evening versus morning injections of growth hormone (GH) in GH-deficient patients: effects on 24-hour patterns of circulating hormones and metabolites. Jørgensen JO, et al. J Clin Endocrinol Metab 1990 Jan;70(1):207–14
Marked attenuation of ultradian and circadian rhythms of dehydroepiandrosterone in postmenopausal women: evidence for a reduced 17,20-desmolase enzymatic activity. Liu CH, et al. J Clin Endocrinol Metab 1990 Oct; 71(4):900–6
Atenolol enhances nocturnal growth hormone (GH) release in GH-deficient children during long term GH-releasing hormone therapy. Martha PM Jr, et al. J Clin Endocrinol Metab 1990 Jan;70(1):56–61
Circadian and seasonal variation in human preovulatory follicular fluid melatonin concentration. Rönnberg L, et al. J Clin Endocrinol Metab 1990 Aug;71(2):492–6
Hypothyroidism and deficiency of the nocturnal thyrotropin surge in children with hypothalamic-pituitary disorders. Rose SR, et al. J Clin Endocrinol Metab 1990 Jun; 70(6):1750–5
Diurnal pattern of plasma growth hormone-binding protein in man. Snow KJ, et al. J Clin Endocrinol Metab 1990 Feb;70(2):417–20
Amplitude, but not frequency, modulation of adrenocorticotropin secretory bursts gives rise to the nyctohemeral rhythm of the corticotropic axis in man. Veldhuis JD, et al. J Clin Endocrinol Metab 1990 Aug; 71(2):452–63
Circadian variations in plasma levels of hypophyseal, adrenocortical and testicular hormones in men infected with human immunodeficiency virus [see comments] Villette JM, et al. J Clin Endocrinol Metab 1990 Mar; 70(3):572–7 Comment in: J Clin Endocrinol Metab 1990 Mar;70(3):563–5.
Basal plasma growth hormone levels in man: new evidence for rhythmicity of growth hormone secretion. Winer LM, et al. J Clin Endocrinol Metab 1990 Jun;70(6):1678–86
The circadian rhythm of biliary colic. Rigas B, et al. J Clin Gastroenterol 1990 Aug;12(4):409–14
Chemotherapy of advanced ovarian cancer with 4'-O-tetrahydropyranyl doxorubicin and cisplatin: a randomized phase II trial with an evaluation of circadian timing and dose-intensity. Lévi F, et al. J Clin Oncol 1990 Apr;8(4):705–14
Inaccuracy of hourly sampled pH measurements in describing the effect of antisecretory drugs on circadian gastric acidity. Mela GS, et al. J Clin Pharmacol 1990 Jan; 30(1):45–9
Effects of light on circadian pacemaker development. I. The freerunning period. Barrett RK, et al. J Comp Physiol [A] 1989 Apr;165(1):41–9
A circadian rhythm in neural activity can be recorded from the central nervous system of the cockroach. Colwell CS, et al. J Comp Physiol [A] 1990 Mar;166(5):643–9
The circadian rhythm and photosensitivity of small impulses of the Bulla eye. Geusz ME, et al. J Comp Physiol [A] 1990 Apr;166(6):795–801
Circadian locomotor rhythms in the desert iguana. I. The role of the eyes and the pineal. Janik DS, et al. J Comp Physiol [A] 1990 Apr;166(6):803–10
Circadian locomotor rhythms in the desert iguana. II. Effects of electrolytic lesions to the hypothalamus. Janik DS, et al. J Comp Physiol [A] 1990 Apr;166(6):811–6
Effects of light on circadian pacemaker development. II. Responses to light. Page TL, et al. J Comp Physiol [A] 1989 Apr;165(1):51–9
Circadian and light-induced conductance changes in putative pacemaker cells of Bulla gouldiana. Ralph MR, et al. J Comp Physiol [A] 1990 Mar;166(5):589–95
Running activity mediates the phase-advancing effects of dark pulses on hamster circadian rhythms. Reebs SG, et al. J Comp Physiol [A] 1989 Oct;165(6):811–8
Large phase-shifts of circadian rhythms caused by induced running in a re-entrainment paradigm: the role of pulse duration and light. Reebs SG, et al. J Comp Physiol [A] 1989 Oct;165(6):819–25
Photoperiodic requirements for timing onset and duration of the breeding season of the ewe: synchronization of an endogenous rhythm of reproduction. Wayne NL, et al. J Comp Physiol [A] 1990 Apr;166(6):835–42
Endogenous 24-hour cycle of core temperature and oxygen consumption in week-old Zucker rat pups. Mumm B, et al. J Comp Physiol [B] 1989;159(5):569–75
Activity patterns in rats (Rattus norvegicus) as a function of the cost of access to four resources. Collier GH, et al. J Comp Psychol 1990 Mar;104(1):53–65
Effects of photoperiod and pair-feeding on lactation of cows fed corn or barley grain in total mixed rations. Bilodeau PP, et al. J Dairy Sci 1989 Nov;72(11):2999–3005
Rhythms in cholesterol, cholesteryl esters, free fatty acids, and triglycerides in blood of lactating dairy cows. Bitman J, et al. J Dairy Sci 1990 Apr;73(4):948–55
Effect of chronobiological manipulation of lactation in the dairy cow. Evans NM, et al. J Dairy Sci 1989 Nov; 72(11):2921–7
Effect of human somatotropin-releasing factor and photoperiods on carcass parameters and mammary gland development of dairy heifers. Ringuet H, et al. J Dairy Sci 1989 Nov;72(11):2928–35
Emergence of the diurnal rhythm in plasma melatonin concentrations in newborn lambs delivered to intact or pinealectomized ewes. Nowak R, et al. J Endocrinol 1990 Apr;125(1):97–102
Diurnal variation of testosterone and estradiol: a source of bias in comparative studies on breast cancer. Panico S, et al. J Endocrinol Invest 1990 May;13(5):423–6
Circadian and pulsatile thyrotropin release in treated acromegalics. Roelfsema F, et al. J Endocrinol Invest 1989 Nov;12(10):685–92
Diurnal melatonin in 3 prepuberal children. Tarquini B, et al. J Endocrinol Invest 1989;12(8 Suppl 3):133
Morning to evening changes of human pituitary and adrenal responses to specific stimuli. Terzolo M, et al. J Endocrinol Invest 1990 Feb;13(2):181–5
Testicular response to melatonin or suprachiasmatic nuclei ablation in the spotted skunk. Berria M, et al. J Exp Zool 1990 Jul;255(1):72–9
Reception of photoperiodic information by fetal Siberian hamsters: role of the mother's pineal gland. Elliott JA, et al. J Exp Zool 1989 Dec;252(3):237–44
Efferent control of temporal response properties of the Limulus lateral eye. Batra R, et al. J Gen Physiol 1990 Feb;95(2):229–44
Autonomic control of the diurnal variation in arterial blood pressure and heart rate in spontaneously hypertensive and Wistar-Kyoto rats. Friberg P, et al. J Hypertens 1989 Oct; 7(10):799–807
Relationships between serum triglycerides and gamma-glutamyltransferase among shift and day workers. Knutsson A. J Intern Med 1989 Nov;226(5):337–9
Evidence for diurnal periodicity in human cholesterol synthesis. Jones PJ, et al. J Lipid Res 1990 Apr;31(4):667–73
Phase I trial of 5-day continuous venous infusion of oxaliplatin at circadian rhythm-modulated rate compared with constant rate. Caussanel JP, et al. J Natl Cancer Inst 1990 Jun 20;82(12):1046–50
Effect of diurnal variation on debrisoquine metabolic phenotyping. Shaw GL, et al. J Natl Cancer Inst 1990 Oct 3;82(19):1573–5
A critical reevaluation of nocturnal penile tumescence monitoring in the diagnosis of erectile dysfunction. Meisler AW, et al. J Nerv Ment Dis 1990 Feb;178(2):78–89 (91 ref.)
The Social Rhythm Metric. An instrument to quantify the daily rhythms of life. Monk TH, et al. J Nerv Ment Dis 1990 Feb;178(2):120–6
Circadian variations of adrenergic receptors in the mammalian pineal gland: a review. Pangerl B, et al. J Neural Transm Gen Sect 1990;81(1):17–29 (59 ref.)
Light affects neonatal rat pineal gland N-acetyltransferase activity by an extra-retinal mechanism. Torres G, et al. J Neural Transm Gen Sect 1990;80(1):67–77
Circadian regulation of melatonin in the retina of Xenopus laevis: limitation by serotonin availability. Cahill GM, et al. J Neurochem 1990 Feb;54(2):716–9
Development of melatonin synthesis in chicken retina: regulation of serotonin N-acetyltransferase activity by light, circadian oscillators, and cyclic AMP. Iuvone PM. J Neurochem 1990 May;54(5):1562–8
A new mutation at the period locus of Drosophila melanogaster with some novel effects on circadian rhythms. Hamblen-Coyle M, et al. J Neurogenet 1989 Aug; 5(4):229–56
Circadian fluctuations of period protein immunoreactivity in the CNS and the visual system of Drosophila. Zerr DM, et al. J Neurosci 1990 Aug;10(8):2749–62
Diurnal change in digestion and absorption of sucrose in vivo in rats. Hara E, et al. J Nutr Sci Vitaminol (Tokyo) 1989 Dec;35(6):667–71
Modifications of circadian cortisol rhythm by cyclic and continuous total enteral nutrition. Saito M, et al. J Nutr Sci Vitaminol (Tokyo) 1989 Dec;35(6):639–47
Is longitudinal bone growth influenced by diurnal variation in the mitotic activity of chondrocytes of the growth plate? Stevenson S, et al. J Orthop Res 1990 Jan;8(1):132–5
Growth hormone secretory dynamics in subjects with normal stature. Costin G, et al. J Pediatr 1989 Oct;115(4):537–44
Prevalence and consequences of nocturnal hypoglycemia among conventionally treated children with diabetes mellitus. Shalwitz RA, et al. J Pediatr 1990 May; 116(5):685–9
Esophageal reflux in symptomatic and asymptomatic infants: postprandial and circadian variations. Dreizzen E, et al. J Pediatr Gastroenterol Nutr 1990 Apr;10(3):316–21
Changes in human milk at 0600, 1000, 1400, 1800, and 2200 h. Lammi-Keefe CJ, et al. J Pediatr Gastroenterol Nutr 1990 Jul;11(1):83–8
Circadian phase dependent acute toxicity and pharmacokinetics of etidocaine in serum and brain of mice. Bruguerolle B, et al. J Pharm Pharmacol 1990 Mar; 42(3):201–2
Lack of diurnal effect on vancomycin disposition in infected patients. Wang LS, et al. J Pharm Sci 1990 Jul;79(7):655–6
How hamsters keep time: the 6 pm to 6 am light-sensitive period. Alleva JJ. J Pineal Res 1989;7(3):265–80
Mechanisms controlling the offset of melatonin secretion in the ewe. Earl CR, et al. J Pineal Res 1990;8(1):49–56
Determination of pineal melatonin by high-performance liquid chromatography with electrochemical detection: application for rhythm studies and tissue explants. Hernandez G, et al. J Pineal Res 1990;8(1):11–9
Effects of pinealectomy on the mitotic activity of adrenomedullary chromaffin cells in relation to time of day. Kachi T, et al. J Pineal Res 1990;8(1):21–34
Rhythmic incorporation of thymidine by chick pineal glands in vitro. Wainwright SD, et al. J Pineal Res 1989; 7(3):253–64
Rhythmic variations in pain perception in osteoarthritis of the knee. Bellamy N, et al. J Rheumatol 1990 Mar; 17(3):364–72
Diurnal hormone variation in fibromyalgia syndrome: a comparison with rheumatoid arthritis. McCain GA, et al. J Rheumatol Suppl 1989 Nov;19:154–7
Lack of diurnal variation in plasma levels of androstenedione, testosterone, estrone and estradiol in postmenopausal women. Lønning PE, et al. J Steroid Biochem 1989;

34(1–6):551–3
Circadian variations of serum sex hormone binding globulin binding capacity in normal adult men and women. Yie SM, et al. **J Steroid Biochem** 1990 Jun;36(1–2):111–5
Circadian periodicity in microfilarial counts. Gupta CK, et al. **J Trop Med Hyg** 1990 Jun;93(3):222–4
Preventive distinction of patients with primary or secondary hypertension by discriminant analysis of chronobiologic parameters estimated on 24–hour blood pressure patterns. Cugini P, et al. **Jpn Circ J** 1989 Nov;53(11):1363–70
Juvenile parkinsonism with marked diurnal fluctuation. Yamada T, et al. **Jpn J Psychiatry Neurol** 1989 Jun; 43(2):205–12 (21 ref.)
Sudden nocturnal deaths among Thai construction workers in Singapore [letter] Goh KT, et al. **Lancet** 1990 May 12; 335(8698):1154
24–hour variation in atrial natriuretic peptide [letter] Haak T, et al. **Lancet** 1990 Jan 20;335(8682):167–8
Night myopia [letter] James CB, et al. **Lancet** 1990 May 26; 335(8700):1283
Attenuation of nocturnal asthma by cromakalim. Williams AJ, et al. **Lancet** 1990 Aug 11;336(8711):334–6
Temporal variations in the erythrocyte permeability to bupivacaine, etidocaine and mepivacaine in mice. Bruguerolle B, et al. **Life Sci** 1989;45(26):2587–90
Diurnal rhythms in rat plasma amino acids. Eriksson T, et al. **Life Sci** 1989;45(11):979–86
Circadian rhythms of blood clotting time and coagulation factors II, VII, IX and X in rats. Soulban G, et al. **Life Sci** 1989;45(25):2485–9
Myocardial infarction, circadian rhythm and delay in hospital admission. Quek DK, et al. **Med J Malaysia** 1989 Mar; 44(1):14–22
Diurnal variations in melatonin binding sites in the hamster brain: impact of melatonin. Anis Y, et al. **Mol Cell Endocrinol** 1989 Dec;67(2–3):121–9
Circadian rhythm in c–fos protein expression in the rat adrenal cortex. Koistinaho J, et al. **Mol Cell Endocrinol** 1990 May 28;71(1):R1–6
Diurnal variability in cranial dystonia. Montagna P, et al. **Mov Disord** 1990;5(1):44–6
Strategies for resetting the human circadian clock [editorial; comment] Van Cauter E, et al. **N Engl J Med** 1990 May 3;322(18):1306–8 Comment on: N Engl J Med 1990 May 3;322(18):1253–9.
Feedback of the Drosophila period gene product on circadian cycling of its messenger RNA levels. Hardin PE, et al. **Nature** 1990 Feb 8;343(6258):536–40
Circa–minute rhythm in human vibratory output. Keidel M, et al. **Naturwissenschaften** 1989 Dec;76(12):576–7
Circadian control over synthesis of many Gonyaulax proteins is at a translational level. Milos P, et al. **Naturwissenschaften** 1990 Feb;77(2):87–9
Circadian variations of urinary dopamine, norepinephrine, epinephrine and sodium in normotensive and hypertensive subjects. Kawano Y, et al. **Nephron** 1990;55(3):277–82
Glucocorticoid and mineralocorticoid receptor mRNA expression in rat brain. Chao HM, et al. **Neuroendocrinology** 1989 Oct;50(4):365–71
Ontogenesis of pineal thyroxine 5'–deiodinase activity and plasma melatonin concentration in the rat. Murakami M, et al. **Neuroendocrinology** 1989 Oct;50(4):476–80
Tetrahydrobiopterin administration in biopterin–deficient progressive dystonia with diurnal variation. Fink JK, et al. **Neurology** 1989 Oct;39(10):1393–5
Circadian fluctuations of contrast sensitivity in Parkinson's disease. Struck LK, et al. **Neurology** 1990 Mar;40(3 Pt 1):467–70
Photic and circadian regulation of c–fos gene expression in the hamster suprachiasmatic nucleus. Kornhauser JM, et al. **Neuron** 1990 Aug;5(2):127–34
Twenty–four hour oscillation of cAMP in chick pineal cells: role of cAMP in the acute and circadian regulation of melatonin production. Nikaido SS, et al. **Neuron** 1989 Nov; 3(5):609–19
The molecular biology of circadian rhythms. Rosbash M, et al. **Neuron** 1989 Oct;3(4):387–98 (150 ref.)
Antibodies to the period gene product of Drosophila reveal diverse tissue distribution and rhythmic changes in the visual system. Siwicki KK, et al. **Neuron** 1988 Apr; 1(2):141–50
An antibody to the Drosophila period protein recognizes circadian pacemaker neurons in Aplysia and Bulla. Siwicki KK, et al. **Neuron** 1989 Jul;3(1):51–8
The circadian rhythm of typical absence seizures—the frequency and duration of paroxysmal discharges. Nagao H, et al. **Neuropediatrics** 1990 May;21(2):79–82
Investigations on day–night differences of vesicle densities in synapses of the rat suprachiasmatic nucleus. Crönlein J, et al. **Neurosci Lett** 1990 Jul 3;114(2):167–72
Thermoperiod and photoperiod interact to affect the phase of the plasma melatonin rhythm in the lizard, Tiliqua rugosa. Firth BT, et al. **Neurosci Lett** 1989 Nov 20; 106(1–2):125–30
The rat pineal N–acetyltransferase rhythm persists after a five–hour, but disappears temporarily after a seven–hour advance of the light–dark cycle: a six–hour shift may be a turning point. Illnerová H, et al. **Neurosci Lett** 1990 Mar 2;110(1–2):77–81
The role of the hypothalamic paraventricular nuclei for the regulation of pineal melatonin synthesis: new aspects derived from the vasopressin–deficient Brattleboro rat. Reuss S, et al. **Neurosci Lett** 1990 Feb 5;109(1–2):196–200
Shiftwork. **Occup Med** 1990 Apr–Jun;5(2):165–428
Circadian rhythms in general. Minors DS, et al. **Occup Med** 1990 Apr–Jun;5(2):165–82 (76 ref.)
Shiftworker performance. Monk TH. **Occup Med** 1990 Apr–Jun;5(2):183–98 (46 ref.)
Shiftwork and safety in aviation. Price WJ, et al. **Occup Med** 1990 Apr–Jun;5(2):343–77 (111 ref.)
Intervention factors for promoting adjustment to nightwork and shiftwork. Rosa RR, et al. **Occup Med** 1990 Apr–Jun; 5(2):391–415 (103 ref.)
Clinical chronobiology: relevance and applications to the practice of occupational medicine. Smolensky MH, et al. **Occup Med** 1990 Apr–Jun;5(2):239–72 (111 ref.)
Sleep patterns of shiftworkers. Tepas DI, et al. **Occup Med** 1990 Apr–Jun;5(2):199–208 (22 ref.)
Presence and rapid decline of early morning intraocular pressure peaks in glaucoma patients. Zeimer RC, et al. **Ophthalmology** 1990 May;97(5):547–50
Day–time changes for pituitary–thyroid hormones denote a rhythmic structure not detectable in elderly subjects. Cugini P, et al. **Panminerva Med** 1989 Jul–Sep;31(3):123–6
Hybrids between Schistosoma mansoni and S. rodhaini: characterization by cercarial emergence rhythms. Théron A. **Parasitology** 1989 Oct;99 Pt 2:225–8
Variation in peak expiratory flow of normal and asymptomatic asthmatic children. Albertini M, et al. **Pediatr Pulmonol** 1989;7(3):140–4
Circadian rhythm and performance during a 24–hour relay race. Krombholz H. **Percept Mot Skills** 1990 Apr; 70(2):603–7
A chronobiological test for cognitive styles: Chrono–Trial Making. Leòn–Carrión J. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1115–22
Sleep reduction in night–shift workers: is it sleep deprivation or a sleep disturbance disorder? Mahan RP, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):723–30
Time–dependent effects of aldosterone on sodium transport and cell membrane resistances in rabbit distal colon. Hoffmann B, et al. **Pflugers Arch** 1989 Nov;415(2):156–64
Social, circadian, nutritional, and subjective correlates of the spontaneous pattern of moderate alcohol intake of normal humans. de Castro JM. **Pharmacol Biochem Behav** 1990 Apr;35(4):923–31
The light–dark cycle modulates the effects of ritanserin on sleep–wakefulness patterns in the rat. Dugovic C, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):533–7
Diurnal concordance of human platelet serotonin content and plasma alpha–1–acid glycoprotein concentration. Meyerson LR, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1043–7
Circadian performance rhythms: some practical and theoretical implications. Folkard S. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):543–53
Blue light photoreception in Neurospora circadian rhythm: evidence for involvement of the flavin triplet state. Fritz BJ, et al. **Photochem Photobiol** 1990 May;51(5):607–10
Analysis of the diurnal expression patterns of the tomato chlorophyll a/b binding protein genes. Influence of light and characterization of the gene family. Kellmann JW, et al. **Photochem Photobiol** 1990 Jul;52(1):35–41
Intensity and precision of circadian wheel running in three outbred rat strains. Bauer MS. **Physiol Behav** 1990 Feb; 47(2):397–401
Phase–response curve to 1–hour light pulses for the marsupial, Dasyuroides byrnei. Kennedy GA, et al. **Physiol Behav** 1989 Oct;46(4):667–70
Circadian variations in time perception in rats. Shurtleff D, et al. **Physiol Behav** 1990 May;47(5):931–9
Entrainment of anticipatory activity to various durations of food access. Stephan FK, et al. **Physiol Behav** 1989 Oct; 46(4):731–41
Medical complications of air travel. Who is at risk? Wooldridge WE. **Postgrad Med** 1990 May 15;87(7):75–7
Prelay light restriction of turkey hens: daylength versus exposure time. Siopes TD. **Poult Sci** 1989 Oct; 68(10):1337–41
Expression of the maize Cat3 catalase gene is under the influence of a circadian rhythm. Redinbaugh MG, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6853–7
Prediction of the antidepressant response to total sleep deprivation by diurnal variation of mood. Reinink E, et al. **Psychiatry Res** 1990 May;32(2):113–24
Effects of a limited nap on night sleep in older subjects. Aber R, et al. **Psychol Aging** 1986 Dec;1(4):300–2
Treatment of sleep–maintenance insomnia in older adults: sleep period reduction, sleep education, and modified stimulus control. Hoelscher TJ, et al. **Psychol Aging** 1988 Sep;3(3):258–63
Twenty–four–hour sleep–wake patterns in a nursing home population. Jacobs D, et al. **Psychol Aging** 1989 Sep; 4(3):352–6
Sleep patterns and aging: comparison of older adults with and without insomnia complaints. Morin CM, et al. **Psychol Aging** 1989 Sep;4(3):290–4
Evidence for circadian influence on human slow wave sleep during daytime sleep episodes. Campbell SS, et al. **Psychophysiology** 1989 Sep;26(5):580–5
Nocturnal asthma. Douglas NJ. **Q J Med** 1989 Apr; 71(264):279–89
The avian pineal, a vertebrate model system of the circadian oscillator: cellular regulation of circadian rhythms by light, second messengers, and macromolecular synthesis. Takahashi JS, et al. **Recent Prog Horm Res** 1989; 45:279–348; discussion 348–52 (160 ref.)
Circadian rhythm of pituitary–adrenal axis in thalassemia. Pasqualetti P, et al. **Recenti Prog Med** 1990 Mar;81(3):200–1
Circadian rhythmicity of plasma amino acid variations in healthy subjects. Riggio O, et al. **Recenti Prog Med** 1989 Nov;80(11):591–3
Daily changes of neuropeptide Y–like immunoreactivity in the suprachiasmatic nucleus of the rat. Calzá L, et al. **Regul Pept** 1990 Jan;27(1):127–37
Serial maternal plasma concentrations of progesterone and estradiol during the morning, the afternoon and at night throughout normal pregnancy in the cynomolgus macaque. Dang DC, et al. **Reprod Nutr Dev** 1989;29(4):449–59
Activation—a predictor of need fulfillment in couples. Hoskins CN. **Res Nurs Health** 1989 Dec;12(6):365–72
Diurnal weight gain in chronic psychosis. Vieweg WV, et al. **Schizophr Bull** 1989;15(3):501–6
Light pulses that shift rhythms induce gene expression in the suprachiasmatic nucleus. Rusak B, et al. **Science** 1990 Jun 8;248(4960):1237–40
Gender differences in the circadian temperature rhythms of healthy elderly subjects: relationships to sleep quality. Campbell SS, et al. **Sleep** 1989 Dec;12(6):529–36
Bright light treatment: are we keeping our subjects in the dark? Dawson D, et al. **Sleep** 1990 Jun;13(3):267–71
The diurnal variability of ventricular premature depolarizations: influence of heart rate, sleep, and wakefulness. Gillis AM, et al. **Sleep** 1989 Oct;12(5):391–9
Sleep extension in sleepy and alert normals. Roehrs T, et al. **Sleep** 1989 Oct;12(5):449–57
Diurnal changes in straight leg raising. Porter RW, et al. **Spine** 1990 Feb;15(2):103–6
Effects of social isolation and the time of day on testosterone levels in plasma of C57BL/6By and BALB/cBy mice. Sayegh JF, et al. **Steroids** 1990 Feb;55(2):79–82
Acute stroke and circadian rhythm [letter] Arboix A, et al. **Stroke** 1990 May;21(5):826
Circadian variation in the frequency of ischemic stroke. Argentino C, et al. **Stroke** 1990 Mar;21(3):387–9
Circadian rhythms of cortisol: effects of surgical operation. Aun F, et al. **Surg Forum** 1978;29:111–4
Circadian renin rhythm during induced coarctation hypertension. Stanton MW, et al. **Surg Forum** 1978;29:293–5
Circadian rhythms for calcium, inorganic phosphorus, and parathyroid hormone in primary hyperparathyroidism: functional and practical considerations. Lobaugh B, et al. **Surgery** 1989 Dec;106(6):1009–16; discussion 1016–7
Circadian change in bronchial responsiveness and airflow obstruction in asthmatic children. van Aalderen WM, et al. **Thorax** 1989 Oct;44(10):803–7
Diurnal variations of cyclosporine and metabolites in renal transplant patients. Sabaté I, et al. **Transplant Proc** 1990 Aug;22(4):1700–1
Circadian variation of heart rate but not of blood pressure after heart transplantation. Wenting GJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2554–5
Closely watched clocks: molecular analysis of circadian rhythms in Neurospora and Drosophila. Dunlap JC. **Trends Genet** 1990 May;6(5):159–65 (38 ref.)
Lack of diurnal effects on periodic exercise during prolonged cold water immersion. Doubt TJ, et al. **Undersea Biomed Res** 1990 Mar;17(2):149–57
Comparative study of the circadian rhythmicity in the urinary concentration of glycosaminoglycans in patients of calcium oxalate nephrolithiasis and in healthy adults. Sidhu H, et al. **Urol Int** 1989;44(4):218–21
Characteristics of circadian rhythm of wheel–running activity and drinking behavior in Mongolian gerbils. Umezu T, et al. **Yakubutsu Seishin Kodo** 1989 Dec;9(4):369–73
Clinical chronopharmacology of oral nitrates. Lemmer B, et al. **Z Kardiol** 1989;78 Suppl 2:61–3; discussion 64–7
A destabilization theory on health impairments by night– and shift work—some tests about its predictive value. Kundi M. **Zentralbl Hyg Umweltmed** 1989 Dec;189(3):248–65
[Circadian rhythm of immune adhesion activity of RBCs in the aged and in patients with kidney deficiency] Liao P, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr;10(4):217–8, 197 (Eng. Abstr.) **(Chi)**
[An observation of the 24–hour variations of the F–V curve and FEV1 in asthmatics] Lin SY. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Jun; 12(3):138–40, 190 (Eng. Abstr.) **(Chi)**
[Circadian rhythm changes in leukocytic glucocorticoid receptors in patients with ischemic cerebral apoplexy] Zhao Y, et al. **Chung Hua I Hsueh Tsa Chih** 1990 May;70(5):283–5 **(Chi)**
[The occurrence of circadian rhythm in respiration in healthy persons and in patients with bronchial asthma] Erban J, et al. **Cas Lek Cesk** 1989 Dec 8;128(50):1584–6 (Eng. Abstr.) **(Cze)**
[Research on the circadian rhythm of erythrocytic Zn–protoporphyrin (letter)] Botta A, et al. **Ann Biol Clin (Paris)** 1989;47(8):509 **(Fre)**
[Circadian rhythm of pain in man: study by measurement of the nociceptive flexor reflex] Bourdalle–Badie C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R183 **(Fre)**
[Nyctohemeral changes in arterial pressure in hospitalized subjects] Valty J, et al. **Arch Mal Coeur** 1989 Jul; 82(7):1039–42 (Eng. Abstr.) **(Fre)**
[Nyctohemeral changes of the blood level of hyaluronic acid

in rheumatoid arthritis] Chassagne P, et al. **Rev Rhum Mal Osteoartic** 1989 Nov;56(11):775–9 (Fre)
[Epidemics VI, 5.15—Hippocrates and the problems of the mid-day nap in the 18th century] Rudolph G. **Sudhoffs Arch Beih** 1989;(27):329–37 (Fre)
[Variability and circadian rhythms of maintenance energy expenditure in adult humans] Müller HL, et al. **Ann Nutr Metab** 1989;33(2):114–24 (Eng. Abstr.) (Ger)
[Diurnal estradiol rhythm in at-risk pregnancies] Schmutzler RK, et al. **Arch Gynecol Obstet** 1989;245(1–4):237–9 (Ger)
[Detection and therapy control of cardiorespiratory dysregulation at night using ambulatory pulse oximetry] Genger K, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:223–4 (Ger)
["Morning type" and "evening type" in activated osteoarthritis. Analysis and practice-related conclusions of an open, multicenter study with ibuprofen] Moerchel J, et al. **Fortschr Med** 1989 Oct 20;107(30):644, 645–8 (Eng. Abstr.) (Ger)
[24-hour blood pressure in primary and secondary hypertension] Baumgart P. **Herz** 1989 Aug;14(4):246–50 (Eng. Abstr.) (Ger)
[Chronopharmacology—significance for clinical treatment?] Lemmer B. **Klin Wochenschr** 1989 Sep 15;67(18):963–5 (22 ref.) (Ger)
[The significance of chronopharmacology for oncology] Hallek M, et al. **Onkologie** 1989 Oct;12(5):230–8 (89 ref.) (Eng. Abstr.) (Ger)
[Sleep deprivation: temporal aspects of partial sleep deprivation in the treatment of depression] Fischer H, et al. **Schweiz Arch Neurol Psychiatr** 1990;141(4):351–9 (Ger)
[Subjective wellbeing of shift workers in relation to individual characteristics of circadian rhythm] Röhner J, et al. **Z Gesamte Hyg** 1990 Mar;36(3):152–5 (Eng. Abstr.) (Ger)
[24 hour rhythm of feed and water consumption by BD IX rats in relation to pregnancy and lactation] Neubauer G, et al. **Z Versuchstierkd** 1990;33(3):115–9 (Eng. Abstr.) (Ger)
[Circadian rhythm of human lymphocyte subpopulations] Pasqualetti P, et al. **Quad Sclavo Diagn** 1988 Jan–Dec; 24(1–4):89–95 (Eng. Abstr.) (Ita)
[Prostaglandin-E2 (PGE2) and interleukin-1 (IL-1) production from plastic-adherent peripheral blood mononuclear cells, and serum and urinary glucocorticoid levels in cancer patients treated with systemic chemotherapy—with special reference to circadian rhythm of serum cortisol levels in cancer] Ito K, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):489–93 (Eng. Abstr.) (Jpn)
[Diurnal rhythms of body temperature, heart rate, and behaviour in the stanchioned adult Shiba goats] Matsui K. **Jikken Dobutsu** 1990 Apr;39(2):231–8 (Eng. Abstr.) (Jpn)
[Circadian variation of heart rate and heart rhythmicity] Otsuka K, et al. **Kokyu To Junkan** 1990 Jul;38(7):621–8 (Jpn)
[Circadian variation of blood pressure] Otsuka K, et al. **Kokyu To Junkan** 1989 Oct;37(10):1045–54 (24 ref.) (Jpn)
[Circadian blood pressure variation and antihypertensive medications] Tochikubo O, et al. **Kokyu To Junkan** 1990 Jul;38(7):629–35 (Jpn)
[Circadian variation of myocardial ischemia] Yasue H, et al. **Kokyu To Junkan** 1990 Jul;38(7):637–40 (Jpn)
[The diurnal variation of the intraocular pressure of vitrectomized eyes receiving instillation of silicone oil] Hoshi S, et al. **Nippon Ganka Gakkai Zasshi** 1990 Mar; 94(3):281–5 (Eng. Abstr.) (Jpn)
[Diurnal changes in colonic motility in conscious dogs] Matsushima Y, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Apr;25(2):47–54 (Eng. Abstr.) (Jpn)
[Four cases in two families of hereditary progressive dystonia with circadian rhythm] Watanabe K, et al. **Nippon Naika Gakkai Zasshi** 1990 Jan 10;79(1):102–3 (Jpn)
[The influence of total parenteral nutrition on the circadian rhythm of the heart rate in elderly patients with wasting diseases] Shimamoto Y, et al. **Nippon Ronen Igakkai Zasshi** 1989 Jul;26(4):353–60 (Eng. Abstr.) (Jpn)
[The influence of thyroid function on the circadian rhythm of heart rate in elderly euthyroid subjects] Shimamoto Y, et al. **Nippon Ronen Igakkai Zasshi** 1989 Sep;26(5):447–54 (Eng. Abstr.) (Jpn)
[Studies on the deviation of short-term FRC measurements with He closed-circuit method and on diurnal variation of FRC] Shibata H, et al. **Rinsho Byori** 1990 Apr; 38(4):463–7 (Eng. Abstr.) (Jpn)
[Circadian rhythms] Kawamura H. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1111–8 (Jpn)
[Diurnal motor activity of Lipoptena cervi (L.) (Hippoboscidae: Diptera)] Kadulski S. **Wiad Parazytol** 1989;35(6):603–5 (Eng. Abstr.) (Pol)
[Diurnal dynamics of spatial-temporal organization of lymph nodes] Borodin IuI, et al. **Arkh Anat Gistol Embriol** 1989 Jun;96(6):50–7 (Eng. Abstr.) (Rus)
[Reaction of circadian rhythms of the lymphoid system to deep screening from geomagnetic fields of the earth] Borodin IuI, et al. **Biull Eksp Biol Med** 1990 Feb; 109(2):191–3 (Eng. Abstr.) (Rus)
[Circadian rhythm of reaction of epithelial cells of the tongue and esophagus to the effects of hydroxyurea] Rybakov VP, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):612–3 (Eng. Abstr.) (Rus)
[Effects of continuous infusion of vasopressin on circadian rhythms of food and water intake, urine output and electrolyte excretion in Brattleboro rats] Stoïnev AG, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):109–11 (Eng. Abstr.) (Rus)
[Effects of surgical treatment on circadian variations of arterial pressure in patients with primary aldosteronism and renovascular hypertension] Kosmacheva ED, et al. **Kardiologiia** 1990 May;30(5):33–7 (Eng. Abstr.) (Rus)
[Problem of desynchronosis during space flight] Aliakrinskiĭ BS. **Kosm Biol Aviakosm Med** 1989 Sep–Oct;23(5):4–8 (33 ref.) (Eng. Abstr.) (Rus)
[Rhythms of electrolyte excretion in healthy people] Aslanian NL, et al. **Lab Delo** 1989;(9):21–3 (Eng. Abstr.) (Rus)
[Monthly and daily biorhythms of amylase in the blood of healthy men and their relation with the rhythms in the external environment] Chirkova EN, et al. **Lab Delo** 1990; (4):40–4 (Eng. Abstr.) (Rus)
[Clinical assessment of the role of circadian rhythm of hormone contents in the blood and saliva of children with congenital dysfunction of the adrenal cortex] Fofanova OV. **Pediatriia** 1989;(11):38–41 (Eng. Abstr.) (Rus)
[Circadian rhythm of lipid levels in the rat bone marrow and thymus: the effect of starvation at various times of the day] Alers I, et al. **Probl Kosm Biol** 1989;64:173–8 (Rus)
[Multiday metabolic rhythms in rats] Alers I, et al. **Probl Kosm Biol** 1989;64:178–83 (Rus)
[Oscillations of thyroid gland hormones in rats] Alersova E, et al. **Probl Kosm Biol** 1989;64:147–62 (Rus)
[Problems of circadian rhythms] Ariakrinskiĭ BS. **Probl Kosm Biol** 1989;64:12–34 (72 ref.) (Rus)
[Interrelations of circadian and minute rhythms in Wistar rats after space flight on the bio-space station "Kosmos-1129"] Hecht K, et al. **Probl Kosm Biol** 1989;64:124–140 (Rus)
[Daily rhythms of human body temperature during clinostatic hypokinesis] Lkhagva L. **Probl Kosm Biol** 1989;64:76–82 (Rus)
[Daily rhythms as indicators of the human cardiopulmonary system] Stepanova SI. **Probl Kosm Biol** 1989;64:34–60 (85 ref.) (Rus)
[Seasonality and circadian rhythm of the occurrence of alveolar hemorrhage and alveolitis] Mingalov GG, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):77 (Rus)
[Evaluation of the efficacy of a course of verapamil and nifedipine in patients with stable stenocardia by daily monitoring of the electrocardiogram] Metelitsa VI, et al. **Ter Arkh** 1989;61(9):65–8 (Eng. Abstr.) (Rus)
[The effect of alcohols on daily variations in aspartate amino-transferase activity in rat organs] Korkach VI, et al. **Ukr Biokhim Zh** 1989 Sep–Oct;61(5):102–6 (Eng. Abstr.) (Rus)
[Characteristics of diurnal rhythm in the development of myocardial infarct: risk in the morning hours] Mirić D, et al. **Lijec Vjesn** 1989 Jun–Jul;111(6–7):188–9 (Eng. Abstr.) (Scr)
[Heart rate-ventricular extrasystole relations and their dependence on circadian rhythms] Burguera M, et al. **Rev Esp Cardiol** 1989 Dec;42(10):658–65 (Eng. Abstr.) (Spa)

DRUG EFFECTS

Differential reinforcement and diurnal rhythms of lever pressing for ethanol in AA and Wistar rats. Hyytiä P, et al. **Alcohol Clin Exp Res** 1990 Jun;14(3):375–9
Influence of beta-adrenergic blockade defined by time series analysis on circadian variation of heart rate and ambulatory myocardial ischemia. Lambert CR, et al. **Am J Cardiol** 1989 Oct 15;64(14):835–9
Effect of ovariectomy and estradiol on unity of female rat circadian rhythms. Thomas EM, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1241–50
Daily injections of triazolam induce long-term changes in hamster circadian period. Van Reeth O, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R514–20
Bromocriptine alters hormone rhythms and lipid metabolism in swine. Cincotta AH, et al. **Ann Nutr Metab** 1989; 33(6):305–14
Circadian variation of plasma homovanillic acid levels is attenuated by fluphenazine in patients with schizophrenia. Doran AR, et al. **Arch Gen Psychiatry** 1990 Jun; 47(6):558–63
Effects of chronic intrahypothalamic infusion of insulin on food intake and diurnal meal patterning in the rat. McGowan MK, et al. **Behav Neurosci** 1990 Apr; 104(2):373–85
The effect of 90 days treatment with omeprazole on 24 hour plasma gastrin profiles in female Wistar rats. Earl LK, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):618–22
Lithium lengthens circadian period in a diurnal primate, Saimiri sciureus. Welsh DK, et al. **Biol Psychiatry** 1990 Jul 15;28(2):117–26
Medial hypothalamic serotonin: role in circadian patterns of feeding and macronutrient selection. Leibowitz SF, et al. **Brain Res** 1989 Nov 27;503(1):132–40
Chloramphenicol modifies benzodiazepine receptor rhythm in the pontomesencephalic formation of the rat. López-Colomé AM, et al. **Brain Res** 1990 May 28; 517(1–2):347–50
AF64 depletes hypothalamic high-affinity choline uptake and disrupts the circadian rhythm of locomotor activity without altering the density of nicotinic acetylcholine receptors. Morley BJ, et al. **Brain Res** 1989 Dec 18;504(2):238–46
Destruction of the hamster serotonergic system by 5,7-DHT: effects on circadian rhythm phase, entrainment and response to triazolam. Smale L, et al. **Brain Res** 1990 May 7;515(1–2):9–19
Carbachol phase shifts the circadian rhythm of locomotor activity in the Djungarian hamster. Wee BE, et al. **Brain Res** 1989 Dec 29;505(2):209–14
Phase shifting the circadian clock with cycloheximide: response of hamsters with an intact or a split rhythm of locomotor activity. Wollnik F, et al. **Brain Res** 1989 Sep 4;496(1–2):82–8
Ouabain (or salt solution lacking potassium) mimics the effects of dark pulses on the circadian pacemaker in cultured chick pineal cells. Zatz M, et al. **Brain Res** 1989 Oct 30;501(1):37–45
Photoendocrine transduction in cultured chick pineal cells. III. Ouabain (or dark) pulses can block, overcome, or alter the phase response of the melatonin rhythm to light pulses. Zatz M, et al. **Brain Res** 1989 Oct 30;501(1):46–57
Circadian rhythms of food intake in gastroduodenally-ulcerated rats: effects of three anti-ulcer drugs. Madrid JA, et al. **Chronobiol Int** 1989;6(4):321–8
Triazolam and phase-shifting acceleration re-evaluated. Mrosovsky N, et al. **Chronobiol Int** 1990;7(1):35–41
Behavioral and neurochemical effects of fencamfamine on rats: a chronobiologic approach. Planeta C da S, et al. **Chronobiol Int** 1989;6(4):313–20
Circadian patterns of basic emotional reactivity and stress related events revisited in mice treated with lithium: behavioral rhythmometric analyses. Poirel C, et al. **Chronobiologia** 1989 Jul–Sep;16(3):229–39
Influences of propranolol and atenolol on the circadian rhythm of heart rate in elderly patients with essential hypertension. Shimamoto H, et al. **Clin Sci** 1990 Apr; 78(4):403–7
Depression, circadian rhythms and trimipramine. Rüther E. **Drugs** 1989;38 Suppl 1:1–3; discussion 49–50 (11 ref.)
Effect of chronic intracerebroventricular infusion of corticotropin-releasing factor on circadian corticosterone rhythm in the rat. Miyanaga K, et al. **Endocrinol Jpn** 1990 Feb;37(1):1–7
Effect of ovarian steroids on a nocturnal surge of prolactin secretion that precedes parturition in the rat. Grattan DR, et al. **Endocrinology** 1990 Feb;126(2):1199–205
Circadian rhythms of specific airway conductance and bronchial reactivity to histamine: the effects of parasympathetic blockade. Dreher D, et al. **Eur Respir J** 1990 Apr;3(4):414–20
Circadian rhythm of the thyroid mast cells in untreated and methylthiouracil-treated rats. Mödlinger G. **Folia Biol (Krakow)** 1989;37(3–4):155–64
Testosterone infusion reduces nocturnal luteinizing hormone pulse frequency in pubertal boys. Foster CM, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1213–20
Pulsatile growth hormone secretion in patients with acromegaly and normal men: the effects of growth hormone-releasing hormone infusion. Gelato MC, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):585–90
Effects of verapamil on diurnal and thyrotropin-releasing hormone-stimulated prolactin levels in man. Nielsen-Kudsk JE, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1269–72
Assessment of growth hormone secretion in normal stature children using 24-hour integrated concentration of GH and pharmacological stimulation. Zadik Z, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):932–6
Diurnal variation in methylphenidate stimulant response in major depression [letter] Swift RM. **J Clin Psychopharmacol** 1989 Dec;9(6):452
Transient insomnia associated with a 3-hour phase advance of sleep time and treatment with zolpidem. Walsh JK, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):184–9
Melatonin accelerates reentrainment of the circadian rhythm of its own production after an 8-h advance of the light-dark cycle. Illnerová H, et al. **J Comp Physiol [A]** 1989 Nov;166(1):97–102
Studies on the role of oxytocin in late pregnancy in the pregnant rhesus monkey: plasma concentrations of oxytocin in the maternal circulation throughout the 24-h day and the effect of the synthetic oxytocin antagonist [1-beta-Mpa(beta-(CH2)5)1,(Me(Tyr2, Orn8] oxytocin on spontaneous nocturnal myometrial contractions. Honnebier MB, et al. **J Dev Physiol** 1989 Oct;12(4):225–32
Role of corticosteroids in the diurnal rhythm of blood pressure. Jyothinagaram SG, et al. **J Hypertens Suppl** 1989 Dec;7(6):S68–9
The effects of daily sodium intake on the relationship of blood pressure, renal plasma flow and natriuresis in essential hypertension. Lasaridis AN, et al. **J Hypertens Suppl** 1989 Dec;7(6):S180–1
Comparison of the acute and chronic antihypertensive effect of two once-daily doses of spirapril by invasive twenty-four-hour ambulatory blood pressure monitoring. van den Meiracker AH, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S302–3

Temporal synergism of neurotransmitter affecting drugs and seasonal reproductive responses of Indian Palm Squirrel, Funambulus pennanti. Chaturvedi CM, et al. **J Neural Transm Gen Sect** 1990;81(1):31–40

Changes in protein phosphorylation in the eye of Aplysia associated with circadian rhythm regulation by serotonin. Zwartjes RE, et al. **J Neurobiol** 1990 Mar;21(2):376–83

Effects of intraventricular implantation of crystalline estradiol benzoate on the sleep–wakefulness circadian rhythm of ovariectomized rats. Matsushima M, et al. **Jpn J Psychiatry Neurol** 1990 Mar;44(1):111–21

Chronopharmacological study of furosemide in rats: (III). Examination in spontaneously hypertensive and Wistar–Kyoto rats. Fujimura A, et al. **Life Sci** 1989; 45(25):2459–64

The organochlorine insecticide 1,2,3,4,5,6–hexachlorocyclohexane (lindane) but not 1,1,1–trichloro–2,2–bis(p–chlorophenyl)ethane (DDT) augments the nocturnal increase in pineal N–acetyltransferase activity and pineal and serum melatonin levels. Attia AM, et al. **Neurochem Res** 1990 Jul;15(7):673–80

Changes with darkness in regional brain 5–hydroxytryptamine and 5–hydroxyindole acetic acid: local differences with pinealectomy, sham surgery, and melatonin. Quay WB. **Neurochem Res** 1989 Oct; 14(10):957–61

Effects of trimipramine on sleep EEG, penile tumescence and nocturnal hormonal secretion. A long–term study in 3 normal controls. Steiger A, et al. **Neuropsychobiology** 1989;21(2):71–5

Effects of L–tryptophan on daytime arousal. Thorleifsdóttir B, et al. **Neuropsychobiology** 1989;21(3):170–6

Melatonin counteracts the 5–aminolevulinic acid–induced rise of rat forebrain tryptophan and serotonin concentrations at night. Daya S, et al. **Neurosci Lett** 1990 Jun 22;114(1):113–6

Melatonin stabilises sleep onset time in a blind man without entrainment of cortisol or temperature rhythms. Folkard S, et al. **Neurosci Lett** 1990 May 31;113(2):193–8

In vivo administration of isoproterenol or forskolin during the light phase induces increases in the melatonin content of the Syrian hamster pineal gland without a rise in N–acetyltransferase activity. Menendez–Pelaez A, et al. **Neurosci Lett** 1990 Mar 14;110(3):314–8

Caffeine and cigarette smoking: behavioral, cardiovascular, and metabolic interactions. Brown CR, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):565–70

Day and night locomotor activity effects during administration of (+)–amphetamine. Martin–Iverson MT, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):465–71

Effects of chronic clonidine administration and withdrawal on free–running circadian activity rhythms. Rosenwasser AM. **Pharmacol Biochem Behav** 1989 Jun;33(2):291–7

Free–running circadian activity rhythms during long–term clonidine administration in rats. Rosenwasser AM. **Pharmacol Biochem Behav** 1990 Jan;35(1):35–9

Midazolam, a short–acting benzodiazepine, resets the circadian clock of the hamster. Wee BE, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):901–6

Effects of histamine and alpha–fluoromethylhistidine injections on circadian phase of free–running rhythms. Itowi N, et al. **Physiol Behav** 1990 Mar;47(3):549–54

Effects of T cycles of light/darkness and periodic forced activity on methamphetamine–induced rhythms in intact and SCN–lesioned rats: explanation by an hourglass–clock model. Ruis JF, et al. **Physiol Behav** 1990 May;47(5):917–29

Pineal–adrenal interactions: the effect of acute pharmacological blockade of nocturnal melatonin secretion. Demitrack MA, et al. **Psychiatry Res** 1990 May; 32(2):183–9

Effects of midazolam on sleep disturbances associated with westward and eastward flights: evidence for directional effects. Lavie P. **Psychopharmacology (Berl)** 1990; 101(2):250–4

Effects of the short–acting benzodiazepine triazolam, taken at bedtime, on circadian and sleep–related hormonal profiles in normal men. Copinschi G, et al. **Sleep** 1990 Jun; 13(3):232–44

Aspirin and nonfebrile waking oral temperature in healthy men and women: links with SWS changes? Horne JA. **Sleep** 1989 Dec;12(6):516–21

The effect of gamma–hydroxybutyrate on nocturnal and diurnal sleep of normal subjects: further considerations on REM sleep–triggering mechanisms. Lapierre O, et al. **Sleep** 1990 Feb;13(1):24–30

Vitamin B12 treatment for sleep–wake rhythm disorders. Okawa M, et al. **Sleep** 1990 Feb;13(1):15–23

[Prostaglandin E2 and D2: opponents in the regulation of the sleep–wake rhythm?] Uhl D. **Med Monatsschr Pharm** 1990 Jan;13(1):2–4 **(Ger)**

[24–hour blood pressure behavior in patients with untreated and treated hypertension in comparison with normotensive patients] Schrader J, et al. **Z Kardiol** 1989 Dec; 78(12):804–10 (Eng. Abstr.) **(Ger)**

[Characteristics of the combined action of melatonin and imizin on the structure of forced swimming and the circadian rhythm] Arushanian EB, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):709–11 (Eng. Abstr.) **(Rus)**

[Characteristics of the psychotropic action of melatonin in relation to the dosage and time of day] Arushanian EB, et al. **Farmakol Toksikol** 1989 Nov–Dec;52(6):33–7 (Eng. Abstr.) **(Rus)**

[The effect of imizin on the circadian rhythm of rat motor activity taking into account its administration schedules] Baturin VA. **Farmakol Toksikol** 1989 Nov–Dec;52(6):37–9 (Eng. Abstr.) **(Rus)**

[The effect of epiphyseal peptides on the dynamics of the circadian and minute motor biorhythms in rats] Arushanian EB, et al. **Fiziol Zh SSSR** 1990 Feb;76(2):171–5 (Eng. Abstr.) **(Rus)**

[Effects of ethanol and ethylene glycol on circadian variations of alanine aminotransferase in rat organs] Korkach VI, et al. **Gig Sanit** 1990 Apr;(4):41–3 **(Rus)**

[The prevention of the side effects of cytostatics by administering them at various times of day] Efimov ML, et al. **Vopr Onkol** 1989;35(9):1068–71 (Eng. Abstr.) **(Rus)**

GENETICS

What is the clock? Translational regulation of circadian bioluminescence. Morse DS, et al. **Trends Biochem Sci** 1990 Jul;15(7):262–5 (37 ref.)

[Genetic variability of the circadian activity pattern of Drosophila in a natural population] Allemand R, et al. **C R Acad Sci [III]** 1989;309(11):477–83 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Central control of circadian and ultradian neuroendocrine rhythms. Assenmacher I. **Acta Neurochir Suppl (Wien)** 1990;47:38–41 (26 ref.)

Photoperiodic ovarian response in yellow–throated sparrow, Gymnorhis xanthocollis: involvement of circadian rhythm. Dixit AS, et al. **Acta Physiol Hung** 1989;73(4):455–60

Influence of acute stress on the pineal activity during day– and nighttime. Stankov B, et al. **Acta Physiol Pol** 1989 Jan–Feb;40(1):116–25

Ambulatory intra–arterial blood pressure in normal subjects. Broadhurst P, et al. **Am Heart J** 1990 Jul;120(1):160–6

Circadian distribution of the characteristics of ischemic episodes in patients with stable coronary artery disease. Hausmann D, et al. **Am J Cardiol** 1990 Sep 15;66(7):668–72

Reproducibility and circadian rhythm of heart rate variability in healthy subjects. Huikuri HV, et al. **Am J Cardiol** 1990 Feb 1;65(5):391–3

Circadian variation in ventricular electrical instability associated with coronary artery disease. McClelland J, et al. **Am J Cardiol** 1990 Jun 1;65(20):1351–7

Day and night esophageal motor function. Avots–Avotins AE, et al. **Am J Gastroenterol** 1990 Jun;85(6):683–5

Determination of clinical accuracy and nocturnal blood pressure pattern by new portable device for monitoring indirect ambulatory blood pressure. Imai Y, et al. **Am J Hypertens** 1990 Apr;3(4):293–301

Alteration of 24–hour rhythms in myometrial activity in the chronically catheterized pregnant rhesus monkey after a 6–hour shift in the light–dark cycle. Figueron JP, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):648–54

Factors related to the nocturnal worsening of asthma. Martin RJ, et al. **Am Rev Respir Dis** 1990 Jan;141(1):33–8

Diurnal variation of lung reactivity in normal and myopathic hamsters. Qian SY, et al. **Am Rev Respir Dis** 1989 Dec; 140(6):1562–6

Circaseptan (about 7–day) modulation of circadian rhythm in corneal mitoses of Holtzman rats. Tsai TH, et al. **Anat Rec** 1989 Nov;225(3):181–8

Circadian variation in circulating platelet aggregates. Undar L, et al. **Ann Med** 1989 Dec;21(6):429–33

Effects of head cooling on circadian variations of thermoregulatory responses in man. Okada A, et al. **Ann Physiol Anthropol** 1989 Jul;8(3):165–7

Do winter depressives experience summer nights in winter? [letter] Beersma DG. **Arch Gen Psychiatry** 1990 Sep; 47(9):879–80

Circadian variation of nystagmus in healthy and sick subjects. Wolf M, et al. **Arch Otolaryngol Head Neck Surg** 1990 Feb; 116(2):221–3

Seasonal and bright light changes of the phase position of the human melatonin rhythm in Antarctica. Broadway JW, et al. **Arctic Med Res** 1988;47 Suppl 1:201–3

Combined effects of shiftwork and environmental hazards (heat, noise, toxic agents). Rutenfranz J, et al. **Arh Hig Rada Toksikol** 1989 Sep;40(3):257–76

Cortical, hippocampal, and striatal mediation of schedule–induced behaviors. Mittleman G, et al. **Behav Neurosci** 1990 Jun;104(3):399–409

Circadian blood pressure pattern in full–term newborn infants. Gemelli M, et al. **Biol Neonate** 1989;56(6):315–23

Hormonal circadian rhythms in eating disorders. Ferrari E, et al. **Biol Psychiatry** 1990 May 1;27(9):1007–20

Nocturnal and early morning secretion of ACTH and cortisol in humans. Krishnan KR, et al. **Biol Psychiatry** 1990 Jul 1;28(1):47–57

Circadian variation of platelet 3H–imipramine binding, platelet serotonin content, and plasma cortisol in healthy volunteers. Montero D, et al. **Biol Psychiatry** 1989 Dec; 26(8):794–804

Alterations in the circadian rest–activity rhythm in aging and Alzheimer's disease. Witting W, et al. **Biol Psychiatry** 1990 Mar 15;27(6):563–72

Endogenous opiates regulate the nocturnal reduction in luteinizing hormone pulse frequency during the luteal phase of the macaque menstrual cycle. Ji WZ, et al. **Biol Reprod** 1989 Dec;41(6):1024–33

Duration of egg formation in hens selected for increased rate of lay under 23 h and 24 h light–dark cycles. Naito M, et al. **Br Poult Sci** 1990 Jun;31(2):371–5

Day–night rhythms in the inhibitory effects of 60 Hz magnetic fields on opiate–mediated 'analgesic' behaviors of the land snail, Cepaea nemoralis. Kavaliers M, et al. **Brain Res** 1990 May 28;517(1–2):276–82

Circadian variations in local cerebral glucose utilization in freely moving rats. Room P, et al. **Brain Res** 1989 Dec 29;505(2):321–5

Alterations in hypothalamic serotonin metabolism in male hamsters with photoperiod–induced testicular regression. Steger RW, et al. **Brain Res** 1990 Apr 23;514(1):11–4

Surface detection of circadian rhythm in 32P content of cancer of the breast. Stoll BA, et al. **Cancer** 1968 Feb; 21(2):193–6

Circadian pharmacokinetics of methotrexate. Robinson BA, et al. **Cancer Chemother Pharmacol** 1989;24(6):397–9

Circadian variation of heart rate variability. Malpas SC, et al. **Cardiovasc Res** 1990 Mar;24(3):210–3

Phase of the circadian clock is accurately transferred from mother to daughter cells in the dinoflagellate Gonyaulax polyedra. Homma K, et al. **Cell Biophys** 1990 Jan–Apr; 16(1–2):85–97

Circadian synchronization of liver regeneration in adult rats: the role played by adrenal hormones. Barbason H, et al. **Cell Tissue Kinet** 1989 Nov;22(6):451–60

Double labelling of cells with tritiated thymidine and bromodeoxyuridine reveals a circadian rhythm–dependent variation in duration of DNA synthesis and S phase flux rates in rodent oral epithelium. Hume WJ, et al. **Cell Tissue Kinet** 1990 Jul;23(4):313–23

Circadian influence in cardiovascular disease (Part 1). Valle GA, et al. **Chest** 1990 Jun;97(6):1453–7

Circadian influence in cardiovascular disease (Part 2). Valle GA, et al. **Chest** 1990 Jul;98(1):218–21 (16 ref.)

Circadian rhythms in hot flashes in natural and surgically–induced menopause. Albright DL, et al. **Chronobiol Int** 1989;6(3):279–84

Advancing schedules and constant light produce faster resynchrocization of circadian rhythms. Binkley S, et al. **Chronobiol Int** 1989;6(4):305–11

Daily modifications of 3H–naloxone binding sites in the rat brain: a quantitative autoradiographic study. Giardino L, et al. **Chronobiol Int** 1989;6(3):203–16

Reciprocity versus rhythmicity in spontaneous alternations of nasal airflow. Gilbert AN. **Chronobiol Int** 1989; 6(3):251–7

Effects of endurance exercise on nocturnal hormone concentrations in males. Hackney AC, et al. **Chronobiol Int** 1989;6(4):341–6

The detection of peaks in luteinizing hormone secretion. Henery RJ, et al. **Chronobiol Int** 1989;6(3):259–65

Comparison of the circadian rhythm in cell proliferation in corneal epithelium of male rats studied under normal and hypobaric (hypoxic) conditions. Kwarecki K, et al. **Chronobiol Int** 1989;6(3):217–22

Meal scheduling modulation of circadian rhythm of phototactic behaviour in cave dwelling fish. Pradhan RK, et al. **Chronobiol Int** 1989;6(3):245–9

Multiple levels in the control of rhythms in enzyme synthesis and activity by circadian clocks: recent trends. Queiroz–Claret C, et al. **Chronobiol Int** 1990;7(1):25–33

Selective persistence of circadian rhythms in physiological responses to exercise. Reilly T, et al. **Chronobiol Int** 1990; 7(1):59–67

Is "masking" an appropriate term? [news] Rensing L. **Chronobiol Int** 1989;6(4):297–300

About L. Rensing's note: "Is 'Masking' an Appropriate Term?" [news] Vanden Driessche T. **Chronobiol Int** 1989; 6(4):301

The circadian rhythm of the N–terminus and C–terminus of the atrial natriuretic factor prohormone. Vesely DL, et al. **Chronobiol Int** 1990;7(1):51–7

DNA synthetic activity in tumor–bearing mice. Waldrop RD, et al. **Chronobiol Int** 1989;6(3):237–43

Circadian assessment of lipids in the hyperphagic obese rat compared with lean litter–mates. Wasan KM, et al. **Chronobiol Int** 1989;6(3):223–8

Comparative study of sodium, potassium, ionized calcium, urea and creatinine circadian rhythm documented in samples of capillary and venous blood from healthy subjects. Baghdassarian RA, et al. **Chronobiologia** 1990 Jan–Mar;17(1):15–25

Ultradian rhythmic models of blood pressure variation in normal human daily life. Benton LA, et al. **Chronobiologia** 1990 Apr–Jun;17(2):95–116

Circadian variations of catecholamines and blood pressure in patients with pseudohypoparathyroidism and hypertension. Brickman AS, et al. **Chronobiologia** 1990 Jan–Mar;17(1):37–44

Baroreflex modulation of ultradian oscillations of blood pressure and heart rate in unanesthetized dogs. Broten TP, et al. **Chronobiologia** 1989 Jul–Sep;16(3):241–55

MHPG circadian rhythmicity in blood of healthy subjects. Marler M, et al. **Chronobiologia** 1990 Apr–Jun;17(2):117–34

Chronopathology for angiotensin converting enzyme circadian rhythm in migraine. Martelletti P, et al. **Chronobiologia** 1990 Jan–Mar;17(1):59–64

Ultradian oscillations of three variables in the circumnutation movements of shoots. Millet B, et al. **Chronobiologia** 1990 Jan–Mar;17(1):53–8

Circadian rhythm of 5-fluorouracil (FU) pharmacokinetics and tolerance. Nowakowska-Dulawa E. **Chronobiologia** 1990 Jan–Mar;17(1):27–35

Experimental and clinical chronocardiology. Otsuka K, et al. **Chronobiologia** 1990 Apr–Jun;17(2):135–63 (172 ref.)

Respiratory and metabolic ultradian (40 min<period<6h) variations in normal premature infants periodically fed through a gastric tube. Putet G, et al. **Chronobiologia** 1990 Jan–Mar;17(1):1–13

Oscillations of acetylcholine in oat seedlings. Tretyn A, et al. **Chronobiologia** 1990 Jan–Mar;17(1):45–52

Continuous 24-hour assessment of the neural regulation of systemic arterial pressure and RR variabilities in ambulant subjects. Furlan R, et al. **Circulation** 1990 Feb;81(2):537–47

Lack of diurnal variation in the onset of non-Q wave infarction. Kleiman NS, et al. **Circulation** 1990 Feb; 81(2):548–55

Circadian variation of plasma fibrinopeptide A level in patients with variant angina. Ogawa H, et al. **Circulation** 1989 Dec;80(6):1617–26

The clinical significance of diurnal blood pressure variations. Dippers and nondippers [comment] Pickering TG. **Circulation** 1990 Feb;81(2):700–2 Comment on: Circulation 1990 Feb;81(2):528–36.

Circadian blood pressure changes and left ventricular hypertrophy in essential hypertension [see comments] Verdecchia P, et al. **Circulation** 1990 Feb;81(2):528–36 Comment in: Circulation 1990 Feb;81(2):700–2.

Diurnal variation of erythrocyte sodium–lithium countertransport rate and intracellular cation concentrations. Siebers RW, et al. **Clin Chim Acta** 1990 May;188(3):227–32

The loss of circadian rhythm for intact parathyroid hormone and nephrogenous cyclic AMP in patients with primary hyperparathyroidism. Logue FC, et al. **Clin Endocrinol (Oxf)** 1990 Apr;32(4):475–83

Short-term fasting inhibits the nocturnal melatonin secretion in healthy man. Röjdmark S, et al. **Clin Endocrinol (Oxf)** 1989 Apr;30(4):451–7

Abnormalities of thyrotrophin (TSH) evening rise and pulsatile release in haemodialysis patients: evidence for hypothalamic–pituitary changes in chronic renal failure. Wheatley T, et al. **Clin Endocrinol (Oxf)** 1989 Jul; 31(1):39–50

Diurnal changes in the haemoglobin level, red blood cell number and mean corpuscular haemoglobin in foals during the first 13 weeks of life and in their lactating mothers. Komosa M, et al. **Comp Biochem Physiol [A]** 1990; 96(1):151–5

Ultradian and circadian CO2 emission variations in nocturnal and diurnal animals exposed to a light stimulus. Stupfel M, et al. **Comp Biochem Physiol [A]** 1989;94(3):415–25

Ultradian, circahoral and circadian structures in endothermic vertebrates and humans. Stupfel M, et al. **Comp Biochem Physiol [A]** 1990;96(1):1–11 (133 ref.)

Diurnal alterations of catecholamines, indoleamines and their metabolites in specific brain regions of the mouse. Huie JM, et al. **Comp Biochem Physiol [C]** 1989;94(2):575–9

Ambulatory 24-hr pH monitoring of esophagus, fundus, and antrum. A new technique for simultaneous study of gastroesophageal and duodenogastric reflux. Mattioli S, et al. **Dig Dis Sci** 1990 Aug;35(8):929–38

Circadian rhythms in urinary trace element and electrolyte excretion in children with and without endemic goiter. Nicolau GY, et al. **Endocrinologie** 1989 Oct–Dec; 27(4):241–59

Effect of shift work on the night-time secretory patterns of melatonin, prolactin, cortisol and testosterone. Touitou Y, et al. **Eur J Appl Physiol** 1990;60(4):288–92

Circadian variations in psychophysiological responses to heat exposure and exercise. Zahorska-Markiewicz B, et al. **Eur J Appl Physiol** 1989;59(1–2):29–33

A circadian rhythm of serum osteocalcin levels in postmenopausal osteoporosis. Pietschmann P, et al. **Eur J Clin Invest** 1990 Jun;20(3):310–2

Stressful crowding during pregnancy advances onset of offspring adrenocortical rhythm. Creighton JA, et al. **Exp Biol** 1988;48(1):57–62

Melatonin and circadian control in mammals. Armstrong SM. **Experientia** 1989 Oct 15;45(10):932–8 (43 ref.)

Aging alters resynchronization of the circadian system in rats after a shift of the light–dark cycle. Burešová M, et al. **Experientia** 1990 Jan 15;46(1):75–7

Splitting of the circadian activity rhythm in common marmosets (Callithrix j. jacchus; primates). Schardt U, et al. **Experientia** 1989 Dec 1;45(11–12):1112–5

The pineal and melatonin: regulators of circadian function in lower vertebrates [corrected and republished article originally printed in Experientia 1989 Oct 15;45(10):914–22] Underwood H. **Experientia** 1990 Jan 15;46(1):120–8 (68 ref.)

The pathophysiologic role of nocturnal acid secretion in gastric ulcers [letter] Savarino V, et al. **Gastroenterology** 1990 Sep;99(3):901–2

Cardiac rate and hyperkinetic rhythm disorders in healthy elderly subjects: evaluation by ambulatory electrocardiographic monitoring. Ribera JM, et al. **Gerontology** 1989;35(2–3):158–64

Circadian rhythm of rectal temperature in man with two different types of clothing. Jeong WS, et al. **Int Arch Occup Environ Health** 1990;62(4):295–8

The circadian rhythm for the number and sensitivity of radiation-induced apoptosis in the crypts of mouse small intestine. Ijiri K, et al. **Int J Radiat Biol** 1990 Jul; 58(1):165–75

Comparison of baroreflex sensitivity and heart period variability after myocardial infarction. Bigger JT Jr, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1511–8

Circadian variation in testosterone, sex hormone-binding globulin, and calculated non-sex hormone-binding globulin bound testosterone in healthy young and elderly men. Plymate SR, et al. **J Androl** 1989 Sep–Oct;10(5):366–71

Diurnal changes in spinal mechanics and their clinical significance. Adams MA, et al. **J Bone Joint Surg [Br]** 1990 Mar;72(2):266–70

Diurnal variation of carbamazepine and carbamazepine-10,11-epoxide in plasma and saliva in children with epilepsy: a comparison between conventional and slow-release formulations. Eeg-Olofsson O, et al. **J Child Neurol** 1990 Apr;5(2):159–65

Nocturnal serum thyrotropin (TSH) surge and the TSH response to TSH-releasing hormone: dissociated behavior in untreated depressives. Bartalena L, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):650–5

Physiological regulation of circadian and pulsatile thyrotropin secretion in normal man and woman. Brabant G, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):403–9

Decreased nocturnal surge of thyrotropin in nonthyroidal illness. Romijn JA, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):35–42

On the role of Ca2(+)-calmodulin-dependent and cAMP-dependent protein phosphorylation in the circadian rhythm of Neurospora crassa. Techel D, et al. **J Comp Physiol [B]** 1990;159(6):695–706

Ontogeny of pulsatile gonadotrophin secretion and pituitary responsiveness in male puberty in man: a mixed longitudinal and cross-sectional study. Wu FC, et al. **J Endocrinol** 1989 Nov;123(2):347–59

Circadian and ultradian characteristics of plasma growth hormone in children with normal and short stature. Hermida RC, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):69–73

Assessment of hepatic function. Comparison of caffeine clearance in serum and saliva during the day and at night. Wahllländer A, et al. **J Hepatol** 1990 Mar;10(2):129–37

Morphometric investigations of the pineal gland after ganglionectomy and thyroidectomy under the aspect of circadian and seasonal variations. Peschke E, et al. **J Hirnforsch** 1989;30(4):399–407

Circadian variation of blood pressure in blacks: influence of age, gender and activity. Harshfield GA, et al. **J Hum Hypertens** 1990 Feb;4(1):43–7

Circadian rhythms of atrial natriuretic peptide, renin, aldosterone, cortisol, blood pressure and heart rate in normal and hypertensive subjects. Portaluppi F, et al. **J Hypertens** 1990 Jan;8(1):85–95

Nocturnal hypertension in renal failure, haemodialysis and after renal transplantation. Baumgart P, et al. **J Hypertens Suppl** 1989 Dec;7(6):S70–1

Circadian changes in vascular sympathetic activity in ambulant subjects. Furlan R, et al. **J Hypertens Suppl** 1989 Dec;7(6):S30–1

Effects of twenty-four hours of bed rest with head-down tilt on cardiopulmonary baroreflex control: preliminary study. Pannier B, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S38–9

Early twenty-four-hour blood pressure elevation in subjects with parental hypertension. Parati G, et al. **J Hypertens Suppl** 1989 Dec;7(6):S64–5

Twenty-four-hour ambulatory blood pressure pattern in youngsters with a different family history of hypertension: the Dutch Hypertension and Offspring Study. van Hooft IM, et al. **J Hypertens Suppl** 1989 Dec;7(6):S66–7

Rapid left ventricular filling is more dependent on age and twenty-four-hour blood pressure than on cardiac size. White WB, et al. **J Hypertens Suppl** 1989 Dec;7(6):S102–3

Immunoreactive somatostatin diurnal rhythms in rat pineal, retina and harderian gland: effects of sex, season, continuous darkness and estrous cycle. Peinado MA, et al. **J Neural Transm Gen Sect** 1990;81(1):63–72

Circadian rhythms in the body temperatures of intensive care patients with brain lesions. Dauch WA, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr;53(4):345–7

Circadian pacemaker neurons: membranes and molecules. Jacklet JW. **J Physiol (Paris)** 1988–89;83(3):164–71

A short history of the second messenger concept in neurons and lessons from long lasting changes in two neuronal systems producing afterdischarge and circadian oscillations. Strumwasser F. **J Physiol (Paris)** 1988–89;83(3):246–54 (67 ref.)

Plasma melatonin exhibits a diurnal secretion in the common marmoset (Callithrix jacchus): relationship to the rest–activity cycle. Guerin MV, et al. **J Pineal Res** 1990; 8(3):237–44

"Synaptic" ribbons and spherules lacking in the pineal gland of the European hamster appear after ganglionectomy. Masson-Pévet M, et al. **J Pineal Res** 1990;8(1):1–10

Posthatch day/night differences in synaptic ribbon populations of the chick pineal. Robertson GN, et al. **J Pineal Res** 1990;8(3):205–19

Diurnal rhythm in absolute and relative concentrations of large neutral amino acids in human plasma. Eriksson T, et al. **J Psychiatr Res** 1989;23(3–4):241–9

Evening urine cortisol excretion and DST results in depression and anorexia nervosa. Zis AP, et al. **J Psychiatr Res** 1989;23(3–4):251–5

Normal 24-hour variation in a trial natriuretic peptide [letter] Zhang DX, et al. **Lancet** 1989 Oct 28;2(8670):1046–7

Immunoneutralization of corticotropin-releasing hormone prevents the diurnal surge of ACTH. Carnes M, et al. **Life Sci** 1989;45(12):1049–56

Nocturnal hypoxemia and long-term oxygen therapy in COPD patients with daytime PaO2 60–70 mmHg. Levi-Valensi P, et al. **Lung** 1990;168 Suppl:770–5

Postural mechanisms in asthma: importance for nocturnal symptoms. Mossberg B. **Lung** 1990;168 Suppl:595–8

Effect of estradiol and progesterone administration upon the circadian rhythm of oxytocin in the cerebrospinal fluid of rhesus monkeys. Amico JA, et al. **Neuroendocrinology** 1990 May;51(5):543–51

Circadian rhythm of oxytocin in the cerebrospinal fluid of rhesus and cynomolgus monkeys: effects of castration and adrenalectomy and presence of a caudal–rostral gradient. Amico JA, et al. **Neuroendocrinology** 1989 Dec; 50(6):624–32

Circadian pattern of plasma melatonin concentrations during four phases of the human menstrual cycle. Berga SL, et al. **Neuroendocrinology** 1990 May;51(5):606–12

Biochemical and ultrastructural approaches to the onset of the pineal melatonin rhythm in the rat. Blázquez E, et al. **Neuroendocrinology** 1989 Nov;50(5):500–5

Patterns of pineal melatonin secretion in rabbits: diurnal variation of basal and pulsatile release. Chan YS, et al. **Neuroendocrinology** 1990 Feb;51(2):147–55

Absence of ultradian rhythm or diurnal variation in insulin-like growth factor-I in rats. Donaghue KC, et al. **Neuroendocrinology** 1990 Jul;52(1):1–8

Hepatic vagotomy abolishes the circadian rhythm of lipogenic responsiveness to insulin and reduces fat stores in hamsters. Martin DD, et al. **Neuroendocrinology** 1990 Jul;52(1):9–14

Prolactin circadian rhythm persists throughout lactation in women. Stern JM, et al. **Neuroendocrinology** 1990 Jan; 51(1):31–7

Diurnal rhythmicity of beta-1- and beta-2-adrenergic receptors in ovariectomized, ovariectomized estradiol-treated and proestrous rats. Weiland NG, et al. **Neuroendocrinology** 1989 Dec;50(6):655–62

Results of the 8 a.m. dexamethasone suppression test constitute a suitable tool for confirming the diagnosis of melancholia. A test unaffected by the variations in the bioavailability of dexamethasone. Maes M, et al. **Neuropsychobiology** 1989;22(1):26–32

Circadian rhythm desynchronosis, jet lag, shift lag, and coping strategies. Comperatore CA, et al. **Occup Med** 1990 Apr–Jun;5(2):323–41 (89 ref.)

Circadian variations of heart rate and STIM-T interval: adaptation for nighttime pacing. Djordjevic M, et al. **PACE** 1989 Nov;12(11):1757–62

Nocturnal serum growth hormone concentration is not augmented by short-term testosterone infusion in pubertal boys. Foster CM, et al. **Pediatr Res** 1989 Oct;26(4):320–4

Nocturnal release of immunoreactive growth hormone-releasing hormone and growth hormone in normal children. Tapanainen P, et al. **Pediatr Res** 1989 Nov; 26(5):404–9

Weekly phase shifts of rhythms self-reported by almost feral human students in the USA and Spain. Binkley S, et al. **Physiol Behav** 1989 Sep;46(3):423–7

Vasopressin-deficient rats show a reduced amplitude of the circadian sleep rhythm. Brown MH, et al. **Physiol Behav** 1989 Oct;46(4):759–62

Effects of vagotomy on entrainment of activity rhythms to food access. Comperatore CA, et al. **Physiol Behav** 1990 Apr;47(4):671–8

Plasma corticosterone response in continuous versus discontinuous chronic heat exposure in rat. Cure M. **Physiol Behav** 1989 Jun;45(6):1117–22

Sleep changes in fasting rats. Dewasmes G, et al. **Physiol Behav** 1989 Aug;46(2):179–84

Sex differences in the development of the motor activity circadian rhythm in rats under constant light. Díez-Noguera A, et al. **Physiol Behav** 1990 May; 47(5):889–94

Day–night rhythms of shoaling behavior in goldfish: opioid and pineal involvement. Kavaliers M. **Physiol Behav** 1989 Aug;46(2):167–72

Adult susceptibility induced by preweaning shifts of Zeitgeber in rats (II). Knaepen E, et al. **Physiol Behav** 1989 Sep;46(3):443–7

Behavior and body weight changes under intermittent exposure to cold in C57BL/6J mice. Omata K. **Physiol Behav** 1990 Apr;47(4):743–8

Blood glucose prior to meal request in humans isolated from all temporal cues. Pollak CP, et al. **Physiol Behav** 1989 Sep;46(3):529–34

Effects of time of feeding on recovery of food-entrained rhythms during subsequent fasting in SCN-lesioned rats. Ruis JF, et al. **Physiol Behav** 1989 Nov;46(5):857–66

Effects of sex, thyro-parathyroidectomy, and light regime on levels and circadian rhythms of wheel-running in rats. Schull J, et al. **Physiol Behav** 1989 Sep;46(3):341–6

Importance of feeding time in pair-fed, ovariectomized rats. Shimomura Y, et al. **Physiol Behav** 1989 Jun;45(6):1197–200

The effect of time of day on sperm competition and male reproductive success in laboratory rats. Spinka M. **Physiol Behav** 1990 Mar;47(3):483–8

Entrainment of activity to multiple feeding times in rats with suprachiasmatic lesions. Stephan FK. **Physiol Behav** 1989 Sep;46(3):489–97

Circadian behavioral rhythms during various light–intensity cycles in rats. Usui S, et al. **Physiol Behav** 1989 Sep; 46(3):521–8

Time of day, repeated testing, and interblock interval effects on P300 amplitude. Wesensten NJ, et al. **Physiol Behav** 1990 Apr;47(4):653–8

Sulphatoxy melatonin: an index of depression in anorexia nervosa and bulimia nervosa. Kennedy SH, et al. **Psychiatry Res** 1990 Jun;32(3):221–7

Blunted ACTH and cortisol response to afternoon tryptophan infusion in euthymic bipolar patients. Nurnberger JI Jr, et al. **Psychiatry Res** 1990 Jan;31(1):57–67

Circadian and circatrigintan rhythms of biogenic amines in premenstrual syndrome (PMS). Odink J, et al. **Psychosom Med** 1990 May–Jun;52(3):346–56

Adult enuresis. The role of vasopressin and atrial natriuretic peptide. Rittig S, et al. **Scand J Urol Nephrol Suppl** 1989; 125:79–86

Psychological and psychophysiological effects of shift work. Akerstedt T. **Scand J Work Environ Health** 1990;16 Suppl 1:67–73 (76 ref.)

What the brain tells the eye. Barlow RB Jr. **Sci Am** 1990 Apr;262(4):90–5

Transplanted suprachiasmatic nucleus determines circadian period. Ralph MR, et al. **Science** 1990 Feb 23; 247(4945):975–8

Twenty–four–hour structure of sleepiness in morning and evening persons investigated by ultrashort sleep–wake cycle [published erratum appears in Sleep 1990 Apr;13(2):203] Lavie P, et al. **Sleep** 1989 Dec;12(6):522–8

Sleep–onset insomniacs have delayed temperature rhythms. Morris M, et al. **Sleep** 1990 Feb;13(1):1–14

Jet–lag and human performance. Loat CE, et al. **Sports Med** 1989 Oct;8(4):226–38 (68 ref.)

Periodicity of ischemic stroke [letter; comment] **Stroke** 1989 Nov;20(11):1590–1 Comment on: Stroke 1989 Apr;20(4):473–6.

Lipoprotein(a) does not show circadian variations [letter] Chandler WL, et al. **Thromb Haemost** 1990 Feb 19; 63(1):151

Insulin, cortisol and catecholamines do not regulate circadian variations in fibrinolytic activity. Chandler WL, et al. **Thromb Res** 1990 Apr 1;58(1):1–12

The circadian variation of blood pressure and heart rate in patients with hyperthyroidism. Minami N, et al. **Tohoku J Exp Med** 1989 Nov;159(3):185–93

Cosinor analysis of changes in circadian blood pressure rhythm with aging in spontaneously hypertensive rats. Munakata M, et al. **Tohoku J Exp Med** 1990 May; 161(1):55–64

Circadian variations in trichloroethylene toxicity under a 12:12 hr light–dark cycle and their alterations under constant darkness in rats. Motohashi Y, et al. **Toxicol Appl Pharmacol** 1990 Jun 1;104(1):139–48

Circadian variation in the mitotic rate of the rat corneal epithelium. Cell divisions and migration are analyzed by a mathematical model. Håskjold E, et al. **Virchows Arch [B]** 1989;58(2):123–7

Circadian variations in the DNA synthesis of the rat corneal epithelium. A study using double labelling with tritiated thymidine. Håskjold E, et al. **Virchows Arch [B]** 1990; 58(3):229–34

[The effect of ganglionectomy and cold exposure on the ventromedial hypothalamic nucleus, blood glucose and liver glycogen in regard to circadian rhythms] Peschke D, et al. **Anat Anz** 1990;170(3–4):237–55 (Eng. Abstr.) **(Ger)**

[Critical evaluation of periodic metabolic measurements for determination of the diurnal energy metabolism of traumatized patients] Fauth U, et al. **Beitr Infusionther** 1990;25:277–88 **(Ger)**

[Diurnal rhythm of O2 uptake and the effect of intensive therapy interventions in patients with craniocerebral injuries with and without barbiturate therapy] Weyland W, et al. **Beitr Infusionther** 1990;25:241–58 **(Ger)**

[Diurnal differences in alcohol absorption] Lötterle J, et al. **Blutalkohol** 1989 Nov;26(6):369–75 (Eng. Abstr.) **(Ger)**

[Doctor's–office blood pressure, home blood pressure, ergometry blood pressure and 24–hour blood pressure. The correlations with the echocardiographic parameters of heart muscle mass] Baumgart P, et al. **Dtsch Med Wochenschr** 1990 Apr 27;115(17):643–7 (Eng. Abstr.) **(Ger)**

[The value of functional tests in diagnosis of prolactinoma] Klockenbusch W, et al. **Geburtshilfe Frauenheilkd** 1990 May;50(5):383–7 (Eng. Abstr.) **(Ger)**

[Morning rise in blood pressure: before or following awakening?] Baumgart P, et al. **Klin Wochenschr** 1990 Mar 16;68(6):320–3 (Eng. Abstr.) **(Ger)**

[Nocturnal growth hormone secretion in children with constitutional and acquired developmental delay] Butenandt O. **Monatsschr Kinderheilkd** 1990 Apr; 138(4):198–201 (Eng. Abstr.) **(Ger)**

[A computerized processing unit for ambulatory diagnosis of sleep apnea and nocturnal hypoxemia] Hamm M, et al. **Pneumologie** 1990 Feb;44 Suppl 1:627–8 (Eng. Abstr.) **(Ger)**

[The diurnal rhythm of chemosensitivity and its contribution to nocturnal disorders of respiratory control] Raschke F, et al. **Pneumologie** 1989 Nov;43 Suppl 1:568–71 (Eng. Abstr.) **(Ger)**

[Diurnal variations of fructosamine in patients with type II diabetes mellitus] Brunnbauer M, et al. **Wien Klin Wochenschr Suppl** 1990;180:72–3; discussion 78–81 (Eng. Abstr.) **(Ger)**

[Effect of a change in posture on the diurnal variations of fructosamine concentration in diabetic patients] Willms B, et al. **Wien Klin Wochenschr Suppl** 1990;180:44–8; discussion 57–9 (Eng. Abstr.) **(Ger)**

[Atrial natriuretic peptide, renin–aldosterone system and arterial pressure. Analysis by circadian rhythm measurement] Colantonio D, et al. **Minerva Cardioangiol** 1989 Jul–Aug;37(7–8):319–22 (Eng. Abstr.) **(Ita)**

[Relationship between periodic movements in sleep and vigilance: analysis of the role of circadian rhythms] Mento G, et al. **Riv Neurol** 1989 May–Jun;59(3):94–8 (Eng. Abstr.) **(Ita)**

[Intracerebral sites of action of estrogen on the sleep–wakefulness circadian rhythm in female rats] Matsushima M. **Fukuoka Igaku Zasshi** 1990 Jan;81(1):48–67 (Eng. Abstr.) **(Jpn)**

[Circadian rhythm and stress in the elderly: a study using salivary cortisol levels as an indicator] Fujibayashi S, et al. **Nippon Eiseigaku Zasshi** 1989 Oct;44(4):869–76 (Eng. Abstr.) **(Jpn)**

[Secondary hypothermia with brain tumor in an elderly woman and the circadian rhythm of body temperature] Shimamoto Y, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):69–73 (Eng. Abstr.) **(Jpn)**

[Response to haloperidol and analysis of growth curve in hereditary progressive dystonia with marked diurnal fluctuation] Oki J, et al. **No To Hattatsu** 1989 Nov; 21(6):569–73 (Eng. Abstr.) **(Jpn)**

[Glucose regulation in diabetes mellitus (the Somogyi effect and the "dawn" phenomenon)] Duţu A, et al. **Rev Med Interna [Med Interna]** 1989 Jul–Aug;41(4):289–94 (18 ref.) **(Rum)**

[Cosinor analysis of the circadian dynamics of transcription in populations of neurocytes from a number of sections of the rat nervous system] Mustafin AG, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):301–3 (Eng. Abstr.) **(Rus)**

[Periodic fluctuations of the blood pressure and heart contraction rate in premature newborn infants] Siutkina EV, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):217–9 (Eng. Abstr.) **(Rus)**

[The circadian rhythms of metabolic systems as an index of the body function of athletes] Kolesnik NV, et al. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):114–20 **(Rus)**

[The efficacy of regulating sleep by physical exercises performed at a set time of the day] Shimanovich EG. **Gig Tr Prof Zabol** 1989;(10):39–40 (Eng. Abstr.) **(Rus)**

[Medical hygiene measures in organizing shift work taking circadian rhythms into account] Zeibt A, et al. **Gig Tr Prof Zabol** 1989;(10):10–3 (Eng. Abstr.) **(Rus)**

[Free course of circadian rhythms in Trigonoscelis gigas beetles after space flight] Alpatov AM, et al. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):31–3 (Eng. Abstr.) **(Rus)**

[Use of the ferrocerone test for measuring iron reserves in different types of daily activities] Orlova TA, et al. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):77–81 (Eng. Abstr.) **(Rus)**

[Circadian rhythm of the functional activity of the normal sympathetic–adrenal system and in pathology] Komarov FI, et al. **Ter Arkh** 1989;61(9):101–5 (24 ref.) **(Rus)**

[An improvement in the therapy of psoriasis at the Pyatigorsk health resort taking into account circadian biorhythms] Militenko SA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec; (6):38–40 (Eng. Abstr.) **(Rus)**

[A neurophysiological analysis of the forms of wakefulness and rest in the toad Bufo bufo and the frog Rana ridibunda in the circadian cycle] Vataev SI. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr;26(2):199–206 (Eng. Abstr.) **(Rus)**

[The spectral characteristics of the electroencephalogram of the toad Bufo bufo L. during the active and passive behavior of the animal in its circadian cycle] Vataev SI. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):555–8 (Eng. Abstr.) **(Rus)**

[Methodology for the detection and analysis of activity patterns] Dezi RE, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):269–72 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Entrainment of a free–running human with bright light? Hoban TM, et al. **Chronobiol Int** 1989;6(4):347–53

Sensitivity of goats to a light pulse during the night as assessed by suppression of melatonin concentrations in the plasma. Deveson SL, et al. **J Pineal Res** 1990;8(2):169–77

Temporal changes in the pattern of melatonin secretion in sheep held in constant darkness. Earl CR, et al. **J Pineal Res** 1990;8(2):115–21

Entrainment of the rhythm in thymidine incorporation by cultured chick pineal glands. Wainwright SD, et al. **J Pineal Res** 1990;8(2):159–68

An unusually rapid light–induced nitrate reductase mRNA pulse and circadian oscillations. Lillo C, et al. **Naturwissenschaften** 1989 Nov;76(11):526–8

Nocturnal illumination does not necessarily stimulate the photoperiodic response, despite mimicking the effects of constant light on the circadian system in the male Syrian hamster. Ferraro JS, et al. **Physiol Behav** 1990 Mar; 47(3):577–88

[Daily dynamics of indicators of carbohydrate metabolism in rat tissue after irradiation at various times of the day] Alersova E, et al. **Probl Kosm Biol** 1989;64:163–73 **(Rus)**

[The circadian rhythm of the adrenal glucocorticoid function in female rats selected for the reaction of the estrous cycle to constant illumination] Kliuchkov DV, et al. **Zh Evol Biokhim Fiziol** 1990 Jan–Feb;26(1):62–7 (Eng. Abstr.) **(Rus)**

CIRCLE OF WILLIS

ABNORMALITIES

Circle of Willis variant analogous to fetal type primitive trigeminal artery. Wismer GL. **Neuroradiology** 1989; 31(4):366–8

ANATOMY & HISTOLOGY

Morphological examination of the circulus arteriosus cerebri humani (circle of Willis). I. Anterior and posterior communicating arteries. Fujimoto K, et al. **Kaibogaku Zasshi** 1989 Oct;64(5):481–9

Natural and surgically imposed anastomoses of the circle of Willis. Clark ME, et al. **Neurol Res** 1989 Dec;11(4):217–30

IMMUNOLOGY

Immunohistochemical localization of an HIV epitope in cerebral aneurysmal arteriopathy in pediatric acquired immunodeficiency syndrome (AIDS). Kure K, et al. **Pediatr Pathol** 1989;9(6):655–67

PATHOLOGY

Atherosclerosis in Japanese in Japan and in Hawaii: a summary review of pathology studies in Honolulu and Hiroshima. Stemmermann GN, et al. **Hawaii Med J** 1990 Jul;49(7):262–4

[Transcranial Doppler: first results of exploration of the circle of Willis] Boespflug OJ. **J Mal Vasc** 1989;14(4):334–8 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Visualization of the fetal circle of Willis and intra–cerebral arteries by color–coded Doppler. Arbeille PH, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep;32(3):195–8

Comment on 'Analysis of flow and vascular resistance in a model of the circle of Willis' [letter] Duros J. **J Biomech** 1990;23(5):507–8

Mathematical models of the flow in the basilar artery. Krijger JK, et al. **J Biomech** 1989;22(11–12):1193–202

Magnetic resonance imaging of flow dynamics in the circle of Willis. Edelman RR, et al. **Stroke** 1990 Jan;21(1):56–65

CIRCULAR DICHROISM see under **SPECTRUM ANALYSIS**

CIRCUMANAL GLAND NEOPLASMS see **ANAL GLAND NEOPLASMS**

CIRCUMANAL GLANDS see **PERIANAL GLANDS**

CIRCUMCISION

AAP releases statement on infant circumcision. **Am Fam Physician** 1989 May;39(5):382, 384, 386

The circumcision controversy [editorial; comment] Altschul MS. **Am Fam Physician** 1990 Mar;41(3):817–8, 820 Comment on: Am Fam Physician 1990 Mar;41(3):859–63.

Routine neonatal circumcision: boundary of ritual and science [editorial; comment] Dozor R. **Am Fam Physician** 1990 Mar;41(3):820, 822–3 Comment on: Am Fam Physician 1990 Mar;41(3):859–63.

Circumcision: the debate continues [editorial; comment] Siwek J. **Am Fam Physician** 1990 Mar;41(3):817 Comment on: Am Fam Physician 1990 Mar;41(3):859–63.

Routine neonatal circumcision: a reappraisal [see comments] Wiswell TE. **Am Fam Physician** 1990 Mar;41(3):859–63 (33 ref.) Comment in: Am Fam Physician 1990 Mar;41(3):817. Comment in: Am Fam Physician 1990 Mar;41(3):817–8, 820. Comment in: Am Fam Physician 1990 Mar;41(3):820, 822–3.

Circumcision and urinary tract abnormalities [letter; comment] **Am J Dis Child** 1989 Nov;143(11):1261–2 Comment on: Am J Dis Child 1989 Mar;143(3):348–50.

Infant circumcision: still debatable [news] Scherer P. **Am J Nurs** 1989 Oct;89(10):1268

Effectiveness of 1% lidocaine dorsal penile nerve block in infant circumcision. Arnett RM, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):1074–8; discussion 1078–80

A comparison of lignocaine 2% with adrenaline 1:200,000 and lignocaine 2% with adrenaline 1:200,000 plus fentanyl as agents for caudal anaesthesia in children undergoing circumcision. Jones RD, et al. **Anaesth Intensive Care** 1990

May;18(2):194–9
Local anesthetic serum concentrations after penile nerve block in children. Sfez M, et al. **Anesth Analg** 1990 Oct; 71(4):423–6
Anaesthetic technique for circumcision in children. Khoo ST. **Ann Acad Med Singapore** 1989 Nov;18(6):669–71
Is phimosis overdiagnosed in boys and are too many circumcisions performed in consequence? Rickwood AM, et al. **Ann R Coll Surg Engl** 1989 Sep;71(5):275–7
An argument for circumcision. Prevention of balanitis in the adult. Fakjian N, et al. **Arch Dermatol** 1990 Aug; 126(8):1046–7
Carcinoma of the penis in a Jew circumcised in infancy. Melmed EP, et al. **Br J Surg** 1967 Aug;54(8):729–31
Circumcision—which dressing? Gough DC, et al. **Br J Urol** 1990 Apr;65(4):418–9
Dorsal penile nerve block for circumcision. Mintz MR, et al. **Clin Pediatr (Phila)** 1989 Dec;28(12):590–1
Dorsal penile nerve block during newborn circumcision: underutilization of a proven technique? Toffler WL, et al. **J Am Board Fam Pract** 1990 Jul–Sep;3(3):171–4
Is routine circumcision indicated in the newborn? An affirmative view. Roberts JA. **J Fam Pract** 1990 Aug; 31(2):185–8
Is routine circumcision indicated in the newborn? An opposing view. Thompson RS. **J Fam Pract** 1990 Aug; 31(2):189–96
Genital ulcers and male circumcision as risk factors for acquiring HIV–1 in Zambia [letter] Hira SK, et al. **J Infect Dis** 1990 Mar;161(3):584–5
The foreskin and urinary tract infections [letter] Schoen EJ. **J Pediatr** 1989 Oct;115(4):663–4
New–born circumcision: a long–term strategy for AIDS prevention [letter; comment] **J R Soc Med** 1990 Apr; 83(4):278 Comment on: J R Soc Med 1989 Nov;82(11):695.
Newborn circumcision: a long–term strategy for AIDS prevention [letter; comment] [see comments] Fink AJ. **J R Soc Med** 1989 Nov;82(11):695 Comment on: J R Soc Med 1989 Jun;82(6):319–20. Comment in: J R Soc Med 1990 Apr;83(4):278.
Lidocaine dorsal penile nerve block for circumcision. Engel NS. **MCN** 1989 Sep–Oct;14(5):311
The question of routine neonatal circumcision. Poland RL. **N Engl J Med** 1990 May 3;322(18):1312–5 (24 ref.)
The status of circumcision of newborns. Schoen EJ. **N Engl J Med** 1990 May 3;322(18):1308–12 (81 ref.)
Circumcision of the newborn [comment] Metcalf T. **N Y State J Med** 1990 May;90(5):231–2 Comment on: N Y State J Med 1990 May;90(5):243–6.
Neonatal bacteremia and circumcision [letter; comment] Braun D. **Pediatrics** 1990 Jan;85(1):135–6 Comment on: Pediatrics 1989 Jun;83(6):1011–5.
More on risks of circumcision [letter] Williams HS. **Pediatrics** 1990 Jan;85(1):136–7
Infant circumcision in an outpatient setting. Moreno CA, et al. **Tex Med** 1989 Dec;85(12):37–40
Circumcision [letter] Stolinsky DC. **West J Med** 1989 Dec; 151(6):666
[Postoperative analgesia for circumcision in children] Ramboatiana R, et al. **Agressologie** 1990 Jan;31(1):39–42 (Eng. Abstr.) **(Fre)**
[Comments on the paper by G. Grosse. Caudal anesthesia combined with general anesthesia in comparison with general anesthesia in outpatient circumcision (letter)] Zech D. **Anaesthesist** 1989 Dec;38(12):700–1 **(Ger)**
[Pediatric phimosis] Cepicka W, et al. **Wien Med Wochenschr** 1989 Sep 30;139(18):448 **(Ger)**
[Ritual circumcision of boys is both permitted and ethically acceptable] Falk V, et al. **Lakartidningen** 1990 Jun 27; 87(26–27):2281–2 **(Swe)**

ADVERSE EFFECTS

A penile–tunnel 'pop up wart': an unusual complication of penile adhesions [letter] Bart BJ, et al. **Arch Dermatol** 1990 Jun;126(6):828–9
Ruptured bladder following circumcision using the Plastibell device. Jee LD, et al. **Br J Urol** 1990 Feb;65(2):216–7
Skin bridge—a complication of paediatric circumcision. Sathaye UV, et al. **Br J Urol** 1990 Aug;66(2):214
Obstetric sequelae of female circumcision. De Silva S. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep;32(3):233–40
Caudal analgesia for pediatric day case surgery: assessment of motor function prior to discharge. Burns AM, et al. **J Clin Anesth** 1990 Jan–Feb;2(1):27–30
The effects of topical lidocaine on infant response to circumcision. Mudge D, et al. **J Nurse Midwifery** 1989 Nov–Dec;34(6):335–40
The fate of the foreskin. Elhassani SB. **J S C Med Assoc** 1990 Feb;86(2):107–9
Circumcision—another look. Hughes GK. **Ohio Med** 1990 Feb;86(2):92
Scrotal abscess with bacteremia caused by Salmonella group D after ritual circumcision. Uwyyed K, et al. **Pediatr Infect Dis J** 1990 Jan;9(1):65–6
Circumcision [letter] Ganiats TG, et al. **West J Med** 1989 Sep;151(3):330–1
[Circumcision in women and infibulation] Reyners MM. **Ned Tijdschr Geneeskd** 1989 Dec 23;133(51):2557–61 (Eng. Abstr.) **(Dut)**
[Gynecologic and obstetric implications of female circumcision in Somalia] Tanganelli E. **Minerva Ginecol** 1989 Sep;41(9):469–74 (8 ref.) (Eng. Abstr.) **(Ita)**

INSTRUMENTATION

A circumcision template. Tinckler LF. **J R Coll Surg Edinb** 1990 Jun;35(3):192–3

METHODS

Circumcision for the newborn. Calnan J, et al. **Br J Surg** 1966 May,53(5):427–9
A measured circumcision. Jones DR, et al. **J R Coll Surg Edinb** 1989 Oct;34(5):283
More about circumcision [letter] Gallagher JP. **J S C Med Assoc** 1990 Jun;86(6):372
Anesthesia for neonatal circumcision: local anesthesia is better than dorsal penile nerve block. Masciello AL. **Obstet Gynecol** 1990 May;75(5):834–8

PSYCHOLOGY

Genital self–mutilation: attempted foreskin reconstruction. Walter G, et al. **Br J Psychiatry** 1990 Jan;156:125–7

STATISTICS & NUMERICAL DATA

Postneonatal circumcision: population profile. Larsen GL, et al. **Pediatrics** 1990 May;85(5):808–12
Circumcision [letter; comment] Wiswell TE. **Pediatrics** 1990 May;85(5):888–9 Comment on: Pediatrics 1989 Aug;84(2):388–91.

UTILIZATION

Current trends in routine newborn male circumcision in New York State [see comments] Wilkes MS, et al. **N Y State J Med** 1990 May;90(5):243–6 Comment in: N Y State J Med 1990 May;90(5):231–2.

CIRRHOSIS see **FIBROSIS**

CIRRHOSIS, LIVER see **LIVER CIRRHOSIS**

CIS–DIAMMINEDICHLOROPLATINUM(II) see **CISPLATIN**

CIS–DICHLORODIAMMINEPLATINUM(II) see **CISPLATIN**

CISPLATIN

Comparison between poly(dG–dC).poly(dG–dC) and DNA modified by cis–diamminedichloroplatinum (II): immunological and spectroscopic studies. Rahmouni A, et al. **J Biomol Struct Dyn** 1985 Oct;3(2):363–75
Cytotoxicity and antitumor activity of bis(platinum) complexes. A novel class of platinum complexes active in cell lines resistant to both cisplatin and 1,2–diaminocyclohexane complexes. Farrell N, et al. **J Med Chem** 1990 Aug;33(8):2179–84
Interaction of novel bis(platinum) complexes with DNA. Roberts JD, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):9719–33

ADMINISTRATION & DOSAGE

Clinical and pharmacokinetic study of intraperitoneal cisplatin at two dose levels: 100 mg/m2 alone or 200 mg/m2 with i.v. sodium thiosulfate. Canal P, et al. **Acta Med Austriaca** 1989;16(3–4):84–6
Adjuvant intraperitoneal cisplatin therapy in patients with operated gastric carcinoma: results of a randomized trial. Schiessel R, et al. **Acta Med Austriaca** 1989;16(3–4):68–9
Endodermal sinus tumor treated with high dose cisplatin. von Eyben FE, et al. **Acta Obstet Gynecol Scand** 1989; 68(7):669–70
Phase II trial of cisplatin and tegafur (Ftorafur) as initial therapy in squamous–cell carcinoma of the head and neck. Gonzalez–Baron M, et al. **Am J Clin Oncol** 1990 Aug; 13(4):312–4
Compatibility of cisplatin and fluorouracil in 0.9% sodium chloride injection. Stewart CF, et al. **Am J Hosp Pharm** 1990 Jun;47(6):1373–7
Schedule–dependent effectiveness of ADM and multiple cycles of DDP on a murine reticulum sarcoma. Leonetti C, et al. **Anticancer Res** 1990 Jan–Feb;10(1):45–8
Effect of treatment schedule on antitumor activity of glycolate–O,O'–diammineplatinum(II), a new platinum derivative: comparison with cis–diamminedichloroplatinum(II). Suzumura Y, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1083–8
Pediatric osteosarcoma. Successful retreatment of relapsed primary tumor and soft tissue recurrence with intraarterial cis–diamminedichloroplatin–II. Epelman S, et al. **Cancer** 1990 Aug 15;66(4):801–5
Thrombogenicity of intravenous 5–fluorouracil alone or in combination with cisplatin. Kuzel T, et al. **Cancer** 1990 Feb 15;65(4):885–9
Evaluation of high–dose etoposide combined with cisplatin for treating relapsed small cell lung cancer. Masuda N, et al. **Cancer** 1990 Jun 15;65(12):2635–40
Cisplatin, etoposide, and ifosfamide in non–small cell lung carcinoma. A phase II randomized study with cisplatin and etoposide as the control arm. Paccagnella A, et al. **Cancer** 1990 Jun 15;65(12):2631–4
Papillary serous carcinoma of the peritoneum. A review of 33 cases treated with platin–based chemotherapy. Ransom DT, et al. **Cancer** 1990 Sep 15;66(6):1091–4
A randomized study of two vindesine plus cisplatin–containing regimens with the addition of mitomycin C or ifosfamide in patients with advanced non–small cell lung cancer. Rosell R, et al. **Cancer** 1990 Apr 15;65(8):1692–9 (37 ref.)
Hepatic arterial injection chemotherapy with cisplatin suspended in an oily lymphographic agent for hepatocellular carcinoma. Shibata J, et al. **Cancer** 1989 Oct 15;64(8):1586–94
A phase II study of cisplatin and continuous infusion of vindesine in metastatic head and neck squamous cell cancer. Tellez–Bernal E, et al. **Cancer** 1990 Aug 15;66(4):640–4
A phase II trial of high–dose cytarabine and cisplatin in previously untreated non–small cell carcinoma of the lung. A Piedmont Oncology Association Study. White DR, et al. **Cancer** 1990 Apr 15;65(8):1700–3
Extracorporeal hemofiltration: a model for decreasing systemic drug exposure with intra–arterial chemotherapy. Graham RA, et al. **Cancer Chemother Pharmacol** 1990; 26(3):210–4
Cisplatin–ifosfamide as neoadjuvant chemotherapy in stage IIIB cervical uterine squamous–cell carcinoma. Lara PC, et al. **Cancer Chemother Pharmacol** 1990;26 Suppl:S36–8
Quantitative subcellular distribution of platinum in rat tissues following i.v. bolus and i.v. infusion of cisplatin. Parti R, et al. **Cancer Chemother Pharmacol** 1990;26(3):188–92
Modalities of cisplatin administration to brain tumors [editorial; comment] Hochberg FH. **Cancer Invest** 1989; 7(6):611–2 Comment on: Cancer Invest 1989;7(6):571–9.
Modalities of cisplatin administration to brain tumors [see comments] Shani J, et al. **Cancer Invest** 1989;7(6):571–9 (60 ref.) Comment in: Cancer Invest 1989;7(6):611–2.
Intraperitoneal cisplatin with i.v. therapy [editorial; comment] Speyer JL. **Cancer Invest** 1989;7(6):613–4 Comment on: Cancer Invest 1989;7(6):565–70.
Addition of 2–nitroimidazole radiosensitizers to cis–diamminedichloroplatinum(II) with radiation and with or without hyperthermia in the murine FSaIIC fibrosarcoma. Herman TS, et al. **Cancer Res** 1990 May 1; 50(9):2734–40
Balloon–occluded arterial infusion therapy in the treatment of primary and recurrent gynecologic malignancies. Yamashita Y, et al. **Cardiovasc Intervent Radiol** 1989 Jul–Aug;12(4):188–95
Preparation and evaluation of albumin microspheres and microcapsules containing cisplatin. Nishioka Y, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1399–400
Preparation and release characteristics of cisplatin albumin microspheres containing chitin and treated with chitosan. Nishioka Y, et al. **Chem Pharm Bull (Tokyo)** 1989 Nov; 37(11):3074–7
A review: intraperitoneal cisplatin in the management of patients with ovarian cancer. McClay EF, et al. **Gynecol Oncol** 1990 Jan;36(1):1–6 (39 ref.)
Therapeutic and metabolic effects of high (greater than 1 g/m2) systemic cumulative doses of cis–platinum in patients with ovarian carcinoma. Plaxe SC, et al. **Gynecol Oncol** 1990 May;37(2):250–3
Response to chemotherapy as justification for modification of the therapeutic strategy for pharyngolaryngeal carcinomas. Demard F, et al. **Head Neck** 1990 May–Jun; 12(3):225–31
Synergism of cisplatin and mitomycin C in sensitive and resistant cell subpopulations of a tumor model. Durand RE. **Int J Cancer** 1989 Nov 15;44(5):911–7
Cisplatin–based chemotherapy in advanced basal and squamous cell carcinomas of the skin: results in 28 patients including 13 patients receiving multimodality therapy. Guthrie TH Jr, et al. **J Clin Oncol** 1990 Feb;8(2):342–6
High–dose cisplatin combination chemotherapy in the treatment of advanced epithelial ovarian carcinoma [see comments] Hainsworth JD, et al. **J Clin Oncol** 1990 Mar; 8(3):502–8 Comment in: J Clin Oncol 1990 Jul;8(7):1287–8.
Randomized study of continuous infusion fluorouracil versus fluorouracil plus cisplatin in patients with metastatic colorectal cancer. Kemeny N, et al. **J Clin Oncol** 1990 Feb;8(2):313–8 (27 ref.)
Preirradiation cisplatin and etoposide in the treatment of high–risk medulloblastoma and other malignant embryonal tumors of the central nervous system: a phase II study. Kovnar EH, et al. **J Clin Oncol** 1990 Feb;8(2):330–6 (34 ref.)
Ifosfamide neurotoxicity is related to previous cisplatin treatment for pediatric solid tumors. Pratt CB, et al. **J Clin Oncol** 1990 Aug;8(8):1399–401
Induction chemotherapy with cisplatin, fluorouracil, and high–dose leucovorin for locally advanced head and neck cancer: a clinical and pharmacologic analysis. Vokes EE, et al. **J Clin Oncol** 1990 Feb;8(2):241–7
Cisplatin combination chemotherapy in squamous cell carcinoma and adenoid cystic carcinoma of the skin. Ikegawa S, et al. **J Dermatol** 1989 Jun;16(3):227–30
Cis–platinum and mitomycin–C in treatment of recurrent, metastatic, or residual uterine cervical cancer post radiation. Senapad S, et al. **J Med Assoc Thai** 1989 Jul; 72(7):382–6
Improved therapeutic index of cisplatin by procaine hydrochloride. Esposito M, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):677–84
Cisplatin combined with carboplatin: a new way of intensification of platinum dose in the treatment of advanced ovarian cancer. Belgian Study Group for Ovarian

Carcinoma. Piccart MJ, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):703–7

Cisplatin–based combination chemotherapy in the treatment of advanced–stage testicular cancer: cost–benefit analysis [see comments] Shibley L, et al. **J Natl Cancer Inst** 1990 Feb 7;82(3):186–92 Comment in: J Natl Cancer Inst 1990 Apr 18;82(8):714–5.

Treatment of oral squamous cell carcinoma with simultaneous chemotherapy and radiation: results and surgical implications. Earle AS, et al. **J Oral Maxillofac Surg** 1990 Apr;48(4):367–72

Intralesional cis–diamminedichloroplatinum and purified collagen treatment of human metastatic malignancies: a feasibility study. Krag DN, et al. **J Surg Oncol** 1990 Feb; 43(2):83–7

Phase II trial of etoposide and cisplatin for refractory small cell lung cancer: a Cancer and Leukemia Group B Study. Graziano SL, et al. **Med Pediatr Oncol** 1990;18(1):22–6 (24 ref.)

Intrahepatic arterial injections of cisplatin–phosphatidylcholine–Lipiodol suspension in two unresectable hepatoblastoma cases. Sue K, et al. **Med Pediatr Oncol** 1989;17(6):496–500

Liposomes as carriers of cisplatin into the central nervous system—experiments with 9L gliomas in rats. Shibata S, et al. **Neurol Med Chir (Tokyo)** 1990 Apr;30(4):242–5

Effect of preoperative chemotherapy by intraarterial infusion of cisplatin (cis–dichlorodiammineplatin) on primary osteosarcomas. Suda A. **Nippon Gan Chiryo Gakkai Shi** 1989 Dec 20;24(11):2594–606

Cisplatin–containing versus cisplatin–free adjuvant chemotherapy in ovarian carcinoma. Results after second–look laparotomy. Schneider J, et al. **Oncology** 1990; 47(2):109–11

Liposomal forms of doxorubicin and cisplatin in phase I trials [news] **Oncology (Williston Park)** 1988 Aug;2(8):18

What is the optimal regimen of cisplatin plus 5–FU for head and neck cancer? [letter] Chen MC. **Oncology (Williston Park)** 1990 Feb;4(2):19

Treatment of murine SCC VII tumors with localized hyperthermia and temperature–sensitive liposomes containing cisplatin. Nishimura Y, et al. **Radiat Res** 1990 May;122(2):161–7

Anti–tumor effect of cisplatin, carboplatin, mitoxantrone, and doxorubicin on peritoneal tumor growth after intraperitoneal and intravenous chemotherapy: a comparative study. Los G, et al. **Sel Cancer Ther** 1990 Summer;6(2):73–82

Rapid remission of a large pleomorphic rhabdomyosarcoma with radiation and a novel schedule of simultaneous high–dose cisplatin [letter] Uphouse WJ, et al. **Sel Cancer Ther** 1989 Winter;5(4):205–6

Cisplatin and mitomycin C in advanced chemotherapy–refractory breast cancer. Crivellari D, et al. **Tumori** 1990 Jun 30;76(3):234–7

Prognostic factors in stage IV ovarian carcinoma treated with platinum–based regimens. Repetto L, et al. **Tumori** 1990 Jun 30;76(3):274–7

Adjuvant systemic chemotherapy after complete transurethral resection of superficially invasive bladder carcinoma (T1 G3–4 and T2 G2–4). Rübben H, et al. **Urol Int** 1990;45(2):78–83

Locally advanced unresectable gastric cancer successfully resected after neoadjuvant chemotherapy with FADE regimen. Chung HC, et al. **Yonsei Med J** 1990 Mar; 31(1):74–9

[Various doses cisplatin combined with multi–drug chemotherapy of malignant solid tumors] Wang QL. **Chung Hua Chung Liu Tsa Chih** 1989 May;11(3):222–5 (Eng. Abstr.) **(Chi)**

[A preliminary experience of chemotherapy using cisplatin (CDDP) in oral and maxillofacial carcinoma] Qiu WL. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Mar; 24(2):69–71, 127 (Eng. Abstr.) **(Chi)**

[Phase I trial and pharmacokinetics of VM 26 combined with cisplatin administered by the intraperitoneal route without mixing time] Chatelut E, et al. **Bull Cancer (Paris)** 1989; 76(8):893–6 **(Fre)**

[Pharmacokinetic study of active ultrafiltrable platinum during a 5–day course of continuous constant flow infusion of cisplatin with modification of the dosage] Dechamp C, et al. **Bull Cancer (Paris)** 1989;76(8):883–5 **(Fre)**

[48–hour continuous infusion of vindesine (followed by cisplatin) in advanced lung cancer. Chronopharmacokinetic data and clinical efficacy] Focan C, et al. **Bull Cancer (Paris)** 1989;76(8):909–12 **(Fre)**

[Results of cisplatin–based polychemotherapy and analysis of prognostic factors in ovarian cancer. Apropos of 106 cases] Maloisel F, et al. **Bull Cancer (Paris)** 1989; 76(10):1083–93 (Eng. Abstr.) **(Fre)**

[Results of a phase II study of the combination of cis–platinum and 5–FU in epidermoid or undifferentiated large cell bronchial cancer] Rivière A, et al. **Bull Cancer (Paris)** 1989;76(10):1095–102 (Eng. Abstr.) **(Fre)**

[Prevention of cisplatin nephrotoxicity in cancer: adjusting the dosage with a computerized chrono–pump] Gestin–Boyer C, et al. **C R Soc Biol (Paris)** 1989; 183(3):263–8 (Eng. Abstr.) **(Fre)**

[The effectiveness of platinum in mono– anc combination therapy in a prospective multicenter study] Krafft W. **Zentralbl Gynakol** 1989;111(14):938–46 (Eng. Abstr.) **(Ger)**

[Effectiveness of cisplatin alone and in combination within the scope of primary therapy of ovarian cancer. Results of a prospective multicenter study] Richter P, et al. **Zentralbl Gynakol** 1990;112(7):421–9 (Eng. Abstr.) **(Ger)**

[Results of combined therapy of irradiation and intra–arterial one–shot injection of cisplatin for head and neck cancers] Mariya Y, et al. **Gan No Rinsho** 1990 May;36(6):675–9 (Eng. Abstr.) **(Jpn)**

[Prognostic factors of common epithelial ovarian cancer treated by surgery and cisplatin based combination chemotherapy] Sasaki H, et al. **Gan No Rinsho** 1989 Oct; 35(13):1615–20 (Eng. Abstr.) **(Jpn)**

[Intracavitary microspheres incorporating cisplatinum in the treatment of malignant effusions—clinical trials] Hagiwara A, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1575–8 (Eng. Abstr.) **(Jpn)**

[Intraperitoneal administration of anti–cancer drug with cisplatinum (CDDP)] Hirahata S, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1555–60 (Eng. Abstr.) **(Jpn)**

[An autopsy case of rectal cancer receiving cisplatin at total dose of 3,250 mg and platinum concentrations in autopsy tissue samples] Ishigaki H, et al. **Gan To Kagaku Ryoho** 1989 Dec;16(12):3805–8 (Eng. Abstr.) **(Jpn)**

[Intraoperative intraperitoneal administration of CDDP against gastric cancer with peritoneal dissemination] Kano T, et al. **Gan To Kagaku Ryoho** 1990 Feb;17(2):233–7 (Eng. Abstr.) **(Jpn)**

[Preoperative intraarterial infusion chemotherapy in combination with angiotensin II pressor by BOAI method in cervical cancer] Kondoh T, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1788–92 (Eng. Abstr.) **(Jpn)**

[A long–surviving case of gastric cancer with peritoneal metastasis (P3) responding to short–term high–dose chemotherapy and long–term immunotherapy] Kusama M, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3453–6 (Eng. Abstr.) **(Jpn)**

[Efficacy of concentrated CDDP–lipiodol emulsion for hepatic arterial infusion therapy in patients with nonresectable hepatoma] Nakashima K, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1731–5 (Eng. Abstr.) **(Jpn)**

[Targeting therapy with a drug using temperature–sensitive liposomes entrapped antitumor drug together with localized hyperthermia] Ogawa Y, et al. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1127–33 (Eng. Abstr.) **(Jpn)**

[Arterial chemoembolization using microencapsulated anticancer drugs] Sato K, et al. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1105–10 (Eng. Abstr.) **(Jpn)**

[Loco–regional cancer chemotherapy in patients with malignant pleural effusion—improving the QOL of patients] Sugitachi A, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1583–7 (Eng. Abstr.) **(Jpn)**

[The hypertensive effect induced with angiotensin II and the physiological and pharmacokinetic aspects of two–route chemotherapy using CDDP and STS] Takizawa K, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1569–74 (Eng. Abstr.) **(Jpn)**

[Intra–arterial infusion of cisplatin and caffeine for a recurrent malignant fibrous histiocytoma] Tsuchiya H, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):681–4 (Eng. Abstr.) **(Jpn)**

[Evaluation of intraperitoneal cancer chemotherapy using an implantable reservoir in patients with peritonitis carcinomatosa] Tsuji Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1607–11 (Eng. Abstr.) **(Jpn)**

[Beneficial effect of cisplatin based combination chemotherapy on adenocarcinoma of the lung] Ueoka H, et al. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3559–65 (Eng. Abstr.) **(Jpn)**

[Experimental study of the effect of combined treatment of UFT with CDDP on human solid tumor–xenografts in nude mice] Yamada Y, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1327–31 (Eng. Abstr.) **(Jpn)**

[Ultrastructural study of capillary permeability of liposome–encapsulated cisplatin in an experimental rat brain tumor model] Shibata S, et al. **Neurol Med Chir (Tokyo)** 1989 Aug;29(8):696–700 (Eng. Abstr.) **(Jpn)**

[Basal studies on combination of Chinese medicine in cancer chemotherapy: protective effects on the toxic side effects of CDDP and antitumor effects with CDDP on murine bladder tumor (MBT–2)] Ebisuno S, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Jun 20;24(6):1305–12 (Eng. Abstr.) **(Jpn)**

[Intravaginal administration of CDDP in cervical cancer] Nakayama K, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Apr 20;25(4):826–9 (Eng. Abstr.) **(Jpn)**

[Evaluation of the intra–hepatic arterial injection therapy of cisplatin (CDDP)–lipiodol suspension in a child with hepatoblastoma] Ohtsubo K, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Jan 20;25(1):31–9 (Eng. Abstr.) **(Jpn)**

[Current results of chemotherapy in non–small cell lung cancer] Fukuoka M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Feb;28(2):203–9 (Eng. Abstr.) **(Jpn)**

[Cisplatin combination chemotherapy in advanced lung cancer in the aged] Nagase T, et al. **Nippon Ronen Igakkai Zasshi** 1989 Jul;26(4):329–33 (Eng. Abstr.) **(Jpn)**

[Cumulative survival rate of chemotherapy with CDDP for malignant ovarian tumors] Takada M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Apr;42(4):333–8 (Eng. Abstr.) **(Jpn)**

[Effectiveness of 3–drug therapy in patients with advanced ovarian cancer] Kwaśniewska–Rokicińska C, et al. **Ginekol Pol** 1989 Feb;60(2):86–9 (Eng. Abstr.) **(Pol)**

[Effectiveness and toxicity of intra–arterial infusions of platidiam and nitrosomethylurea in disseminated melanoma of the skin of the extremities] Shatikhin VA, et al. **Sov Med** 1990;(2):116–8 **(Rus)**

[Chemotherapy of disseminated forms of breast cancer using platinum derivatives] Gorbunova VA, et al. **Vopr Onkol** 1990;36(4):455–7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Hyponatraemia following cisplatin chemotherapy. Bissett D, et al. **Acta Oncol** 1989;28(6):823

Advanced cervical cancer therapy: concurrent radiation therapy and cisplatin chemotherapy for advanced cervical cancer—a toxicity report. Suggs CL 3d, et al. **Am J Clin Oncol** 1989 Dec;12(6):461–6

Refractory potassium repletion due to cisplatin–induced magnesium depletion. Rodriguez M, et al. **Arch Intern Med** 1989 Nov;149(11):2592–4

Protein binding, sister chromatid exchange and expression of oncogene proteins in patients treated with cisplatinum (cisDDP)–based chemotherapy. Perera F, et al. **Arch Toxicol** 1990;64(5):401–6

Arterial thrombosis after treatment with bleomycin and cisplatin. Garstin IW, et al. **BMJ** 1990 Apr 14; 300(6730):1018

Autonomic neuropathy after cisplatin based chemotherapy [letter] Richardson P, et al. **BMJ** 1990 Jun 2; 300(6737):1466–7

The role of metoclopramide in acute and delayed chemotherapy induced emesis: a randomised double blind trial. O'Brien ME, et al. **Br J Cancer** 1989 Nov;60(5):759–63

Ototoxicity of cisplatinum in children and adolescents. Skinner R, et al. **Br J Cancer** 1990 Jun;61(6):927–31

Development of leukemia after doxorubicin and cisplatin treatment for ovarian cancer. Chambers SK, et al. **Cancer** 1989 Dec 15;64(12):2459–61

Antiemetic superiority of lorazepam over oxazepam and methylprednisolone as premedicants for patients receiving cisplatin–containing chemotherapy. Kearsley JH, et al. **Cancer** 1989 Oct 15;64(8):1595–9

Ondansetron for the prevention of emesis induced by high–dose cisplatin. A multi–center dose–response study. Khojasteh A, et al. **Cancer** 1990 Sep 15;66(6):1101–5

Low prevalence of cisplatin–induced neuropathy after 4–day continuous infusion in head and neck cancer. Sebille A, et al. **Cancer** 1990 Jun 15;65(12):2644–7

Cisplatin–induced peripheral neuropathy. Frequent off–therapy deterioration, demyelinating syndromes, and muscle cramps. Siegal T, et al. **Cancer** 1990 Sep 15; 66(6):1117–23

A randomized, double–blind comparison of the antiemetic effect of metoclopramide and lorazepam with or without dexamethasone in patients receiving high–dose cisplatin. Stephens SH, et al. **Cancer** 1990 Aug 1;66(3):443–6

A pilot study of metoclopramide, dexamethasone, diphenhydramine and acupuncture in women treated with cisplatin. Aglietti L, et al. **Cancer Chemother Pharmacol** 1990;26(3):239–40

Progressive paresthesias after cessation of therapy with very high–dose cisplatin. Grunberg SM, et al. **Cancer Chemother Pharmacol** 1989;25(1):62–4

A phase I/II study of the 5–HT3 antagonist GR38032F in the anti–emetic prophylaxis of patients receiving high–dose cisplatin chemotherapy. Smith DB, et al. **Cancer Chemother Pharmacol** 1990;25(4):291–4

Cisplatin neurotoxicity. Cersosimo RJ. **Cancer Treat Rev** 1989 Dec;16(4):195–211 (72 ref.)

Leukoencephalopathy after cisplatin therapy. Brück W, et al. **Clin Neuropathol** 1989 Nov–Dec;8(6):263–5

Fat embolism syndrome complicating intraarterial chemotherapy with cis–platinum. Menendez LR, et al. **Clin Orthop** 1990 May;(254):294–7

Cisplatin nephrotoxicity: experimental and clinical studies. Daugaard G. **Dan Med Bull** 1990 Feb;37(1):1–12 (138 ref.)

Ondansetron in the prophylaxis of nausea and vomiting induced by cisplatin [letter] van Liessum PA, et al. **Eur J Cancer** 1990;26(6):769–70

Ondansetron in the prophylaxis of acute cisplatin–induced nausea and vomiting. Marty M. **Eur J Cancer Clin Oncol** 1989;25 Suppl 1:S41–5 (25 ref.)

The effect of three dose levels of ICS 205–930 (a selective 5HT–3 antagonist) on cisplatin–induced nausea and vomiting. Seinen H, et al. **Eur J Cancer Clin Oncol** 1989 Sep;25(9):1333–5

Can bismuth decrease the kidney toxic effect of cis–platinum? Sommer S, et al. **Eur J Cancer Clin Oncol** 1989 Dec; 25(12):1903–4

Prospective study of nerve conduction parameters and serum magnesium following cisplatin therapy. Ashraf M, et al. **Gynecol Oncol** 1990 Apr;37(1):29–33

Evaluation of cisplatin–induced emesis in dogs with malignant neoplasia: 115 cases (1984–1987). Ogilvie GK, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1399–403

Current strategies to reduce cisplatin toxicity. Sobrero A,

et al. J Chemother 1990 Feb;2(1):3–7 (29 ref.)
Modification of cisplatin toxicity with diethyldithiocarbamate. Berry JM, et al. J Clin Oncol 1990 Sep;8(9):1585–90
Ondansetron: a new antiemetic for patients receiving cisplatin chemotherapy. Einhorn LH, et al. J Clin Oncol 1990 Apr; 8(4):731–5
Ototoxicity of preradiation cisplatin for children with central nervous system tumors. Kretschmar CS, et al. J Clin Oncol 1990 Jul;8(7):1191–8
Protection from nausea and vomiting in cisplatin-treated patients: high-dose metoclopramide combined with methylprednisolone versus metoclopramide combined with dexamethasone and diphenhydramine: a study of the Italian Oncology Group for Clinical Research. Roila F, et al. J Clin Oncol 1989 Nov;7(11):1693–700
Treatment-related ototoxicity [letter; comment] Walker DA, et al. J Clin Oncol 1990 Jan;8(1):179–80 Comment on: J Clin Oncol 1989 Jun;7(6):754–60.
Acute leukemia following cisplatin-based chemotherapy in a patient with ovarian cancer [letter] [see comments] Reed E, et al. J Natl Cancer Inst 1990 Mar 7;82(5):431–2 Comment in: J Natl Cancer Inst 1990 May 2;82(9):795.
Leukemia following cisplatin therapy [letter; comment] Weiss RB. J Natl Cancer Inst 1990 May 2;82(9):795 Comment on: J Natl Cancer Inst 1990 Mar 7;82(5):431–2.
Optic nerve degeneration caused by supraophthalmic carotid artery infusion with cisplatin and ACNU. Case report. Shimamura Y, et al. J Neurosurg 1990 Feb;72(2):285–8
RG 12915: a potent 5-hydroxytryptamine-3 antagonist that is an orally effective inhibitor of cytotoxic drug-induced emesis in the ferret and dog. Fitzpatrick LR, et al. J Pharmacol Exp Ther 1990 Aug;254(2):450–5
Irreversible renal failure after intraperitoneal cisplatin administration. A case report. Gouge SF, et al. J Reprod Med 1989 Nov;34(11):931–3
High-dose cisplatin treatment: hearing loss and plasma concentrations. Laurell G, et al. Laryngoscope 1990 Jul; 100(7):724–34
Role of angiotensin II and vasopressin in cisplatin-induced emesis. Cubeddu LX, et al. Life Sci 1990;46(10):699–705
Gonadal dysfunction due to cis-platinum. Wallace WH, et al. Med Pediatr Oncol 1989;17(5):409–13
Efficacy of ondansetron (GR 38032F) and the role of serotonin in cisplatin-induced nausea and vomiting [see comments] Cubeddu LX, et al. N Engl J Med 1990 Mar 22;322(12):810–6 Comment in: N Engl J Med 1990 Mar 22;322(12):846–8.
Making chemotherapy easier [editorial; comment] Grunberg SM. N Engl J Med 1990 Mar 22;322(12):846–8 Comment on: N Engl J Med 1990 Mar 22;322(12):810–6. Comment on: N Engl J Med 1990 Mar 22;322(12):816–21.
Comparison of the 5-hydroxytryptamine3 (serotonin) antagonist ondansetron (GR 38032F) with high-dose metoclopramide in the control of cisplatin-induced emesis [see comments] Marty M, et al. N Engl J Med 1990 Mar 22;322(12):816–21 Comment in: N Engl J Med 1990 Mar 22;322(12):846–8.
Dose and schedule effects of cisplatin on the related acute iron changes. Pollera CF, et al. Oncology 1990;47(2):133–8
New antiemetic effective for cisplatin-induced emesis [news] Oncology (Williston Park) 1989 Jul;3(7):79
Chronic renal magnesium loss, hypocalciuria and mild hypokalaemic metabolic alkalosis after cisplatin. Bianchetti MG, et al. Pediatr Nephrol 1990 May;4(3):219–22
8-OH-DPAT suppresses vomiting in the cat elicited by motion, cisplatin or xylazine. Lucot JB, et al. Pharmacol Biochem Behav 1989 Jul;33(3):627–31
Control of nephrotoxicity by hydration-diuresis, and of emesis by alizapride, during cisplatin administration in patients with bladder cancer. Neri B, et al. Riv Eur Sci Med Farmacol 1988 Nov;10(5):389–92
Evaluation of aminoglycoside disposition in patients previously treated with cisplatin. Christensen ML, et al. Ther Drug Monit 1989 Nov;11(6):631–6
Prevention of cisplatin-induced vomiting in patients with cancer. A pilot study with a multiagent protocol. Federico M, et al. Tumori 1990 Jun 30;76(3):278–81
[Hemolytic anemia caused by cisdiamino-dichloroplatinum. Lack of cross-reaction with carboplatin (letter)] Weber JC, et al. Presse Med 1990 Mar 24;19(11):526–7 (Fre)
[Antiemetic therapy in cisplatin chemotherapy] Grünsteidel W, et al. Gynakol Rundsch 1989;29 Suppl 2:374–7 (Ger)
[Monitoring hearing during ototoxic cisplatin therapy] Kluba J, et al. Padiatr Grenzgeb 1990;29(1):19–23 (Eng. Abstr.) (Ger)
[NAG (N-acetyl-beta-D-glucosaminidase)—a sensitive marker for disorders of kidney function] Skrezek C, et al. Urologe [A] 1990 Jan;29(1):27–31 (Eng. Abstr.) (Ger)
[Magnesium deficiency caused by epirubicin/cisplatin] Lechner W, et al. Zentralbl Gynakol 1989;111(21):1438–40 (Eng. Abstr.) (Ger)
[Control of the emesis induced by cisplatin in patients with head and neck neoplasms. Randomized study of metoclopramide alizapride and placebo] Denaro A, et al. G Ital Oncol 1990 Jan-Jun;10(1-2):29–34 (Eng. Abstr.) (Ita)
[Neurotoxicity of intra-arterial cis-platinum (CDDP) in the locoregional treatment of diffuse liver metastasis of carcinoma of the colon and rectum] Gori A, et al. Minerva Chir 1990 May 15;45(9):663–8 (Eng. Abstr.) (Ita)
[Cisplatin nephrotoxicity: effects on fractional excretion of sodium and enzymuria] Cirami C, et al. Minerva Med 1990 Jan-Feb;81(1-2):79–86 (Eng. Abstr.) (Ita)
[The ototoxicity of cisplatin in the chemotherapy of tumors of the head-neck area. Our experience] Sbalzarini G, et al. Minerva Med 1990 May;81(5):403–5 (Eng. Abstr.) (Ita)
[Treatment of nausea and vomiting induced by a 24-hour i.v. infusion of cisplatin] Nagai H, et al. Gan No Rinsho 1990 Jun;36(7):791–6 (Eng. Abstr.) (Jpn)
[A combined anti-emesis therapy of oral prednisolone and alprazolam for cisplatin-induced delayed emesis] Watanabe A, et al. Gan No Rinsho 1990 Jul;36(8):881–4 (Eng. Abstr.) (Jpn)
[Prevention of renal toxicity of cisplatin by administration of bismuth subnitrate] Hamada T, et al. Gan To Kagaku Ryoho 1989 Nov;16(11):3587–93 (Eng. Abstr.) (Jpn)
[Evaluation of antiemetic effect of clonazepam, metoclopramide, dexamethasone and diphenhydramine for prevention of cisplatin-induced vomiting] Hatae M, et al. Gan To Kagaku Ryoho 1990 Aug;17(8 Pt 1):1495–9 (Eng. Abstr.) (Jpn)
[Effect of fosfomycin on cisplatin-induced renal tubular damage] Itoh H, et al. Gan To Kagaku Ryoho 1990 Jan; 17(1):147–50 (Jpn)
[Acute myocardial infarction induced by lung cancer chemotherapy with cisplatin and etoposide] Tsutsumi T, et al. Gan To Kagaku Ryoho 1990 Mar;17(3 Pt 1):413–7 (Eng. Abstr.) (Jpn)
[Alleviation of cisplatin toxicity by high-dose bismuth subnitrate and pharmacokinetics of bismuth subnitrate and cisplatin] Morikawa T, et al. Nippon Gan Chiryo Gakkai Shi 1990 Jun 20;25(6):1138–45 (Eng. Abstr.) (Jpn)
[Changes in lanthanum permeability of rat Sertoli cell tight junction after CDDP administration] Gotoh S, et al. Nippon Hinyokika Gakkai Zasshi 1990 Jan;81(1):45–8 (Eng. Abstr.) (Jpn)
[Renal accumulation of technetium-99m-labeled bone imaging agents in patients treated with cisplatin] Igari H, et al. Nippon Igaku Hoshasen Gakkai Zasshi 1989 Aug 25; 49(8):1017–24 (Eng. Abstr.) (Jpn)
[Preventive effect of urinastatin on cisplatin-induced nephrotoxicity] Kobayashi H, et al. Nippon Sanka Fujinka Gakkai Zasshi 1989 Dec; 41(12):1959–64 (Eng. Abstr.) (Jpn)
[Adverse reactions to cisplatin in patients with malignant tumors] Lalowicz I. Pol Tyg Lek 1989 Jun 19–26; 44(25–26):621–3 (36 ref.) (Pol)
[Tinnitus in the diagnosis and prognosis of ototoxicity] Doménech J, et al. Acta Otorrinolaringol Esp 1990 Jan-Feb; 41(1):7–9 (Eng. Abstr.) (Spa)
[A clinical study of cisplatin ototoxicity] Frade González C, et al. Acta Otorrinolaringol Esp 1990 Jan-Feb;41(1):11–4 (Eng. Abstr.) (Spa)
[Value of substituted benzamides in controlling acute post-cisplatin emesis (letter)] Rosell R, et al. Med Clin (Barc) 1989 Dec 9;93(19):756 (Spa)

ANALOGS & DERIVATIVES

The inhibition of P338 lymphocytic leukemia DNA polymerase alpha activity by cis-diamminedichloroplatinum(II) and related derivatives. Oswald CB, et al. Anticancer Res 1989 Jul-Aug;9(4):915–22
The binding of substituted cis-Pt(II)-diammines to duplex DNA. McCarthy SL, et al. Biopolymers 1990 Mar-Apr; 29(4–5):785–90
Pharmacokinetics of carboplatin at a dose of 750 mg m-2 divided over three consecutive days. Mulder PO, et al. Br J Cancer 1990 Mar;61(3):460–4
A strategy for the development of two clinically active cisplatin analogs: CBDCA and CHIP. Foster BJ, et al. Cancer Chemother Pharmacol 1990;25(6):395–404 (64 ref.)
Detection of DNA strand breaks in Escherichia coli treated with platinum(IV) antitumor compounds. Defais M, et al. Chem Biol Interact 1990;74(3):343–52
Ovarian malignant mixed mesodermal tumor response to cis-diamminedichloroplatinum. Graciansky AM, et al. Eur J Gynaecol Oncol 1989;10(5):296–9
Biological evaluation of 99mTc labelled cis-platinum containing benzyliminodiacetic acids as potential tumour imaging agents. Jacobs JJ, et al. Int J Rad Appl Instrum [B] 1990;17(4):397–400
The effect of second generation platinum cytostatics on mammalian cell proliferation. Keprtová J, et al. Neoplasma 1990;37(2):121–9
[Cytogenetic analysis of the effects of selected 2d generation cytostatics (iproplatin and oxoplatin) on human peripheral lymphocytes in vitro] Srb V, et al. Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl 1989;32(4):319–51 (Eng. Abstr.) (Cze)
[Preclinical evaluation of several cisplatinum analogs against human esophageal carcinoma by subrenal capsule assay] Terashima M, et al. Gan To Kagaku Ryoho 1990 Feb; 17(2):269–73 (Eng. Abstr.) (Jpn)
[Antitumor effectiveness and nephrotoxicity of oxoplatinum] Aref'eva AK, et al. Vopr Onkol 1990;36(3):331–4 (Eng. Abstr.) (Rus)

ANALYSIS

Clinical, analytical and pharmacokinetic aspects in cancer chemotherapy with platinum coordination compounds. Caroli S, et al. Ann Ist Super Sanita 1989;25(3):487–97
Identification and characterization of a novel linkage isomerization in the reaction of trans-diamminedichloroplatinum(II) with 5'-d(TCTACGCGTTCT). Comess KM, et al. Biochemistry 1990 Feb 27;29(8):2102–10
Influence of the degree of DNA modification on the immunochemical determination of cisplatin-DNA adduct levels. Fichtinger-Schepman AM, et al. Carcinogenesis 1989 Dec;10(12):2367–9
Stability-indicating high-performance liquid chromatographic method for the simultaneous determination of cisplatin and 5-fluorouracil in 0.9% sodium chloride for injection. Fleming RA, et al. J Chromatogr 1990 Jun 29;528(2):517–25

ANTAGONISTS & INHIBITORS

Urinastatin (Kunitz-type proteinase inhibitor) reducing cisplatin nephrotoxicity. Umeki S, et al. Am J Med Sci 1989 Oct;298(4):221–6
Long-term effects of acetazolamide and sodium chloride loading on cisplatin nephrotoxicity in the rat. Heidemann HT, et al. Eur J Clin Invest 1990 Apr;20(2):214–8
Inhibition of cisplatin-induced emesis in the pigeon by a non-psychotropic synthetic cannabinoid. Feigenbaum JJ, et al. Eur J Pharmacol 1989 Oct 4;169(1):159–65
A study of human small-cell lung carcinoma (hSCLC) cell lines with different sensitivities to detect relevant mechanisms of cisplatin (CDDP) resistance. Hospers GA, et al. Int J Cancer 1990 Jul 15;46(1):138–44
Inactivation of cis-diamminedichloroplatinum (II) in blood by sodium thiosulfate. Abe R, et al. Oncology 1990; 47(1):65–9

BLOOD

Determination of cis-diamminedichloroplatinum (II) in plasma proteins and hemoglobin of cancer patients. Mustonen R, et al. Arch Toxicol 1989;63(5):361–6

ISOLATION & PURIFICATION

High performance liquid chromatographic separation of cisplatin and its hydrolysis products on alumina and application to studies of their interaction with cysteine. Shearan P, et al. Biomed Chromatogr 1990 Mar;4(2):78–82

METABOLISM

Preferential binding of cisplatin to mitochondrial DNA and suppression of ATP generation in human malignant melanoma cells. Murata T, et al. Biochem Int 1990; 20(5):949–55
Characterization of a DNA damage-recognition protein from mammalian cells that binds specifically to intrastrand d(GpG) and d(ApG) DNA adducts of the anticancer drug cisplatin. Donahue BA, et al. Biochemistry 1990 Jun 19; 29(24):5872–80
Synthesis and characterization of trans-[Pt(NH3)2Cl2] adducts of d(CCTCGAGTCTCC).d(GGAGACTCGAGG). Lepre CA, et al. Biochemistry 1990 Jan 23;29(3):811–23
Theoretical studies of cis-Pt(II)-diammine binding to duplex DNA. McCarthy SL, et al. Biopolymers 1990 Mar-Apr; 29(4–5):823–36
The effect of CaCl2 and verapamil on the binding of cisplatin to cultures of normal and transformed human fibroblasts. Hamel B, et al. Cancer Biochem Biophys 1990 Apr; 11(2):155–68
cis-diamminedichloroplatinum(II) cross-linking of the human myeloid cell nuclear differentiation antigen to DNA in HL-60 cells following 1,25-dihydroxy vitamin D3-induced monocyte differentiation. Gaczynski M, et al. Cancer Res 1990 Feb 15;50(4):1183–8
Nonuniform alteration of cis-diamminedichloroplatinum(II) tissue distribution in dogs with whole body hyperthermia. Riviere JE, et al. Cancer Res 1990 Apr 1;50(7):2075–80
Correlation between cell killing by cis-diamminedichloroplatinum(II) in six mammalian cell lines and binding of a cis-diamminedichloroplatinum(II)-DNA antiserum. Terheggen PM, et al. Cancer Res 1990 Jun 15; 50(12):3556–61
Kinetic studies of the hydrolysis of platinum-DNA complexes by nuclease S1. Butour JL, et al. Chem Biol Interact 1990;73(2–3):195–205
Escherichia coli DNA polymerase I: inherent exonuclease activities differentiate between monofunctional and bifunctional adducts of DNA and cis- or trans-diamminedichloroplatinum(II). An exonuclease investigation of the kinetics of the adduct formation. Bernges F, et al. Eur J Biochem 1990 Aug 17;191(3):743–53
Metallothionein gene expression and resistance to cisplatin in human ovarian cancer. Schilder RJ, et al. Int J Cancer 1990 Mar 15;45(3):416–22
A theoretical model for the binding of cis-Pt(NH3)2(+2) to DNA. Miller KJ, et al. J Biomol Struct Dyn 1985 Jun; 2(6):1157–71
Determination of cisplatin and related platinum complexes in plasma ultrafiltrate and urine by high-performance liquid

chromatography with on-line radioactivity detection. Baldew GS, et al. **J Chromatogr** 1989 Jun 30;491(1):163–74

Reaction of cis- and trans-[PtCl2(NH3)2] with reduced glutathione inside human red blood cells, studied by 1H and 15N-[1H] DEPT NMR. Berners-Price SJ, et al. **J Inorg Biochem** 1990 Apr;38(4):327–45

Binding of cis(1,2-diaminocyclohexane)platinum(II) and its derivatives to duplex DNA. Miller KJ, et al. **J Med Chem** 1990 Mar;33(3):1043–6

Enhancement of both intracellular uptake and antitumor action of cisplatinum on human neuroblastoma cells by encapsulation in liposomes. Kamio Y, et al. **Jpn J Cancer Res** 1989 Aug;80(8):787–93

Distortions induced in double-stranded oligonucleotides by the binding of cis- or trans-diammine-dichloroplatinum(II) to the d(GTG) sequence. Anin MF, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4395–400

PHARMACOKINETICS

Clinical, analytical and pharmacokinetic aspects in cancer chemotherapy with platinum coordination compounds. Caroli S, et al. **Ann Ist Super Sanita** 1989;25(3):487–97

Kinetics of cis-dichlorodiammine platinum (II) during plasmapheresis. Hosokawa S, et al. **Artif Organs** 1989 Oct; 13(5):442–6

Kinetics and mechanism of uptake of platinum-based pharmaceuticals by the rat small intestine. Binks SP, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1329–36

Independent analysis of bait region cleavage dependent and thiolester bond cleavage dependent conformational changes by cross-linking of alpha 2-macroglobulin with cis-dichlorodiammineplatinum(II) and dithiobis(succinimidyl propionate). Roche PA, et al. **Biochemistry** 1989 Sep 19;28(19):7629–36

Platinum disposition after intraarterial and intravenous infusion of cisplatin for osteosarcoma. Cooperative Osteosarcoma Study Group COSS. Bielack SS, et al. **Cancer Chemother Pharmacol** 1989;24(6):376–80

Influence of hydration on ultrafilterable platinum kinetics and kidney function in patients treated with cis-diamminedichloroplatinum(II). Dumas M, et al. **Cancer Chemother Pharmacol** 1990;26(4):278–82

Platinum distribution in intraperitoneal tumors after intraperitoneal cisplatin treatment. Los G, et al. **Cancer Chemother Pharmacol** 1990;25(6):389–94

Short-term cis-diamminedichloroplatinum(II) accumulation in sensitive and resistant human ovarian carcinoma cells. Mann SC, et al. **Cancer Chemother Pharmacol** 1990; 25(4):236–40

The use of oxaliplatin versus cisplatin in intraperitoneal chemotherapy in cancers restricted to the peritoneal cavity in the rat. Los G, et al. **Cancer Lett** 1990 May 30; 51(2):109–17

Comparison of the pharmacokinetics of ultrafilterable cisplatin species detectable by derivatization with diethyldithiocarbamate or atomic absorption spectroscopy. Goel R, et al. **Eur J Cancer** 1990 Jan;26(1):21–7

Biological evaluation of 99mTc labelled cis-platinum containing benzyliminodiacetic acids as potential tumour imaging agents. Jacobs JJ, et al. **Int J Rad Appl Instrum [B]** 1990;17(4):397–400

Effect of sodium thiosulfate on the pharmacokinetics and toxicity of cisplatin. Goel R, et al. **J Natl Cancer Inst** 1989 Oct 18;81(20):1552–60

Kinetics of cisplatin in a patient with lung carcinoma on continuous ambulatory peritoneal dialysis. Berland Y, et al. **Nephron** 1990;54(1):105–6

Pharmacokinetics of cisplatin (CIS) during double filtration plasmapheresis (DFPP). Hosokawa S, et al. **Prog Clin Biol Res** 1990;337:391–3

[Comparison of the pharmacokinetics of cisplatin administered by the intraperitoneal route in 2 dosages: 100 and 200 mg/m2] Canal P, et al. **Bull Cancer (Paris)** 1989; 76(8):879–82 (Fre)

[Optimization using the pharmacokinetics of the therapeutic index of CDDP-5 FU treatment over 5 continuous days] Milano G, et al. **Bull Cancer (Paris)** 1989;76(8):905–8 (Fre)

[Therapeutic results and pharmacokinetics of combined used anticancer drug in intraperitoneal hyperthermo-chemotherapy (CHPP)] Inoue Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1551–4 (Eng. Abstr.) (Jpn)

[Distribution of CDDP and BLM after intra-vaginal administration with a suppository] Kigawa J, et al. **Gan To Kagaku Ryoho** 1990 Sep;17(9):1945–7 (Jpn)

[Organ distribution of CDDP following intra-vaginal administration] Nakayama K, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):419–21 (Jpn)

[Experimental studies on drug concentrations in the liver using intra-hepatic injection of anticancer drug in combination with temporary halting of abdominal blood flow] Nishioka Y, et al. **Gan To Kagaku Ryoho** 1990 Aug; 17(8 Pt 2):1736–9 (Eng. Abstr.) (Jpn)

[Intraperitoneal (i.p.) chemotherapy in the management of ovarian cancer—pharmacokinetics and methods of sequential i.p. chemotherapy] Noda T, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1561–8 (Eng. Abstr.) (Jpn)

[Pharmacokinetic evaluation of continuous infusion cisplatin] Hiura M, et al. **Hinyokika Kiyo** 1989 Jun;35(6):955–61 (Eng. Abstr.) (Jpn)

[Pharmacokinetic evidence for the renal reabsorption of CDDP] Kurose T, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Jun 20;24(6):1229–37 (Eng. Abstr.) (Jpn)

PHARMACOLOGY

The effect of radiation and cytotoxic platinum compounds on the growth of normal and tumour bladder explant cultures. Mothersill C, et al. **Acta Oncol** 1990;29(2):179–84

Intermediate filament proteins in the embryonic inner ear of mice under normal conditions and after exposure to ototoxic drugs. Berggren D, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):57–65

Potentiation of cis-dichlorodiammineplatinum (II)-induced cytotoxicity by methylglyoxal. Dornish JM, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1137–42

Cytotoxic drug sensitivity of squamous cell carcinoma as predicted by an in vitro testing model. Elprana D, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1089–94

The inhibition of P338 lymphocytic leukemia DNA polymerase alpha activity by cis-diamminedichloroplatinum(II) and related derivatives. Oswald CB, et al. **Anticancer Res** 1989 Jul–Aug;9(4):915–22

Lonidamine can enhance the cytotoxic effect of cisplatin in human tumour cells and rodent cells. Raaphorst GP, et al. **Anticancer Res** 1990 Jul–Aug;10(4):923–7

Effectiveness of cis-platin and carboplatin in the chemotherapy of squamous cell carcinoma grown as multicellular spheroids. Schwachöfer JH, et al. **Anticancer Res** 1990 May–Jun;10(3):805–11

Metronidazole enhances the cytotoxic synergism produced by the combination of 1-beta-arabinofuranosylcytosine and cis-diamminedichloroplatinum. Trujillo JM, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1751–6

Resistance of in vitro grown IgM immunocytoma cells to cis-diamminedichloroplatinum (II) (cis-DDP) and cross-resistance to other DNA interacting drugs. Vendrik CP, et al. **Anticancer Res** 1990 Mar–Apr;10(2A):447–52

Phenotypic reversion of cisplatin resistance in human cells accompanies reduced host cell reactivation of damaged plasmid. Chao CC, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):851–9

Drug resistance to cis-diamminedichloroplatinum (II) in Chinese hamster ovary cell lines transfected with glutathione S-transferase pi gene. Miyazaki M, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1358–64

Requirement of a reactive aldehyde moiety for aldehyde-mediated protection against cis-dichlorodiammineplatinum-induced cell inactivation. Dornish JM, et al. **Biochem Pharmacol** 1990 Jan 15; 39(2):309–18

Cisplatin resistance and mechanism in a viral test system: SV40 isolates that resist inhibition by the antitumor drug have lost regulatory DNA. Buchanan RL, et al. **Biochemistry** 1990 Apr 10;29(14):3436–42

Conformation of DNA modified at a d(GG) or a d(AG) site by the antitumor drug cis-diamminedichloroplatinum(II). Schwartz A, et al. **Biochemistry** 1989 Oct 3;28(20):7975–9

Bending studies of DNA site-specifically modified by cisplatin, trans-diamminedichloroplatinum(II) and cis-[Pt(NH3)2(N3-cytosine)Cl]+. Bellon SF, et al. **Biophys Chem** 1990 Apr;35(2–3):179–88

How does cisplatin alter DNA structure? A molecular mechanics study on double-stranded oligonucleotides. Kozelka J, et al. **Biophys Chem** 1990 Apr;35(2–3):165–78

The formation and removal of cisplatin (CDDP) induced DNA adducts in a CDDP sensitive and resistant human small cell lung carcinoma (HSCLC) cell line. Hospers GA, et al. **Br J Cancer** 1990 Jan;61(1):79–82

The role of glutathione in resistance to cisplatin in a human small cell lung cancer cell line. Meijer C, et al. **Br J Cancer** 1990 Jul;62(1):72–7

Effect of cisplatin on glomerular hemodynamics. Barros EJ, et al. **Braz J Med Biol Res** 1989;22(10):1295–301

Chemosensitivity correlation between the primary tumors and simultaneous metastatic lymph nodes of patients evaluated by DNA synthesis inhibition assay. Nio Y, et al. **Cancer** 1990 Mar 15;65(6):1273–8

Cellular pharmacology of cisplatin: perspectives on mechanisms of acquired resistance. Andrews PA, et al. **Cancer Cells** 1990 Feb;2(2):35–43 (81 ref.)

Cisplatin and new platinum analogs. Zwelling LA. **Cancer Chemother Biol Response Modif** 1988;10:64–72 (39 ref.)

Cisplatin and new platinum analogs. Zwelling LA. **Cancer Chemother Biol Response Modif** 1987;9:71–80 (37 ref.)

Metallothionein-like proteins and cell resistance to cis-dichlorodiammineplatinum(II) in L1210 cells. Farnworth P, et al. **Cancer Chemother Pharmacol** 1990; 25(6):411–7

Rapid emergence of acquired cis-diamminedichloroplatinum(II) resistance in an in vivo model of human ovarian carcinoma. Andrews PA, et al. **Cancer Commun** 1990;2(2):93–100

The effect of DNA polymerase inhibitors on the cytotoxicity of cisplatin in human ovarian carcinoma cells. Katz EJ, et al. **Cancer Commun** 1990;2(4):159–64

Overexpression of DNA replication and repair enzymes in cisplatin-resistant human colon carcinoma HCT8 cells and circumvention by azidothymidine. Scanlon KJ, et al. **Cancer Commun** 1989;1(4):269–75

Neurite outgrowth and cell cycle kinetic changes induced by cis-diamminedichloroplatinum II and retinoic acid in a human neuroblastoma cell line. Di Martino D, et al. **Cancer Lett** 1990 Jul 16;52(2):101–6

Analysis of various mRNA potentially involved in cisplatin resistance of murine leukemia L1210 cells. Sheibani N, et al. **Cancer Lett** 1990 Jul 31;52(3):179–85

Decreased accumulation as a mechanism of resistance to cis-diamminedichloroplatinum(II) in human non-small cell lung cancer cell lines: relation to DNA damage and repair. Bungo M, et al. **Cancer Res** 1990 May 1;50(9):2549–53

Characterization of acquired resistance to cis-diamminedichloroplatinum (II) in BE human colon carcinoma cells. Fram RJ, et al. **Cancer Res** 1990 Jan 1; 50(1):72–7

Failure of chronic glutathione elevation to reduce cytotoxicity produced by exposure to cis-diamminedichloroplatinum(II), ionizing radiation, or hyperthermia. Freeman ML, et al. **Cancer Res** 1990 Sep 1;50(17):5296–300

Synergistic cytotoxicity using 2'-deoxy-5-azacytidine and cisplatin or 4-hydroperoxycyclophosphamide with human tumor cells. Frost P, et al. **Cancer Res** 1990 Aug 1; 50(15):4572–7

Application of a new approach for the quantitation of drug synergism to the combination of cis-diamminedichloroplatinum and 1-beta-D-arabinofuranosylcytosine. Greco WR, et al. **Cancer Res** 1990 Sep 1;50(17):5318–27

Effect of alpha-difluoromethylornithine on 1,3-bis(2-chloroethyl)-1-nitrosoures and cis-diamminedichloroplatinum(II) cytotoxicity, DNA interstrand cross-linking, and growth in human brain tumor cell lines in vitro. Hunter KJ, et al. **Cancer Res** 1990 May 1;50(9):2769–72

Platinum incorporation and differential effects of cis- and trans-diamminedichloroplatinum(II) on the growth of mouse leukemia P388/D1. Just G, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7072–7

Increased removal of DNA-bound platinum in a human ovarian cancer cell line resistant to cis-diamminedichloroplatinum(II). Masuda H, et al. **Cancer Res** 1990 Mar 15;50(6):1863–6

Morphological and electrophysiological study of the effects of cisplatin and ORG.2766 on rat spinal ganglion neurons. Müller LJ, et al. **Cancer Res** 1990 Apr 15;50(8):2437–42

Ultrasound enhanced drug toxicity on Chinese hamster ovary cells in vitro. Saad AH, et al. **Cancer Res** 1989 Nov 1; 49(21):5931–4

Increased expression of glutathione S-transferase gene in cis-diamminedichloroplatinum(II)-resistant variants of a Chinese hamster ovary cell line. Saburi Y, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7020–5

Mechanisms of resistance to cisplatin and alkylating agents. Hamilton TC, et al. **Cancer Treat Res** 1989;48:151–69 (54 ref.)

Analysis of mutations induced in the SUP4-o gene of Saccharomyces cerevisiae by cis-diammine dichloroplatinum(II). Mis JR, et al. **Carcinogenesis** 1990 Apr;11(4):633–8

Use of host cell reactivation of cisplatin-treated adenovirus 5 in human cell lines to detect repair of drug-treated DNA. Maynard KR, et al. **Chem Biol Interact** 1989;71(4):353–65

Drug selectivity and membrane transport properties of normal human lymphocytes. Kashani-Sabet M, et al. **Chemotherapy** 1989;35(5):363–72

Reduced natural cytotoxic cell activity in patients receiving cisplatin-based chemotherapy and in mice treated with cisplatin. Powell CB, et al. **Clin Exp Immunol** 1990 Mar; 79(3):424–9

Formation and stability of interstrand cross-links induced by cis- and trans-diamminedichloroplatinum (II) in the DNA of Saccharomyces cerevisiae strains differing in repair capacity. Wilborn F, et al. **Curr Genet** 1989 Dec; 16(5–6):331–8

Flow cytometric analysis of the kinetic effects of cisplatin on lung cancer cells. Fujikane T, et al. **Cytometry** 1989 Nov;10(6):788–95

cis-platinum-mediated decrease in serum testosterone is associated with depression of luteinizing hormone receptors and cytochrome P-450scc in rat testis. Maines MD, et al. **Endocrinology** 1990 May;126(5):2398–406

Antitumor activity of hyperthermia alone or in combination with cisplatin and melphalan in primary cultures of human malignant melanoma. Zaffaroni N, et al. **Int J Cell Cloning** 1989 Nov;7(6):385–94

Heat sensitization to cisplatin in two cell lines with different drug sensitivities. Eichholtz-Wirth H, et al. **Int J Hyperthermia** 1990 Jan–Feb;6(1):47–55

The cytotoxic effect of cis-diamminedichloroplatinum(II) on cultured Chinese hamster ovary cells at elevated temperatures: Arrhenius plot analysis. Urano M, et al. **Int J Hyperthermia** 1990 May–Jun;6(3):581–90

Enhanced DNA repair and tolerance of DNA damage associated with resistance to cis-diammine-dichloroplatinum (II) after in vitro exposure of a human teratoma cell line to fractionated X-irradiation. Hill BT, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul; 19(1):75–83

Discrepancy between cytotoxicity and DNA interstrand crosslinking of carboplatin and cisplatin in vivo. DeNeve

W, et al. **Invest New Drugs** 1990 Feb;8(1):17–24

Involvement of protein kinase C in phorbol ester–induced sensitization of HeLa cells to cis–diamminedichloroplatinum(II). Basu A, et al. **J Biol Chem** 1990 May 25;265(15):8451–7

Increased sensitivity to cis–diamminedichloroplatinum(II) in human ovarian carcinoma cells in response to treatment with 12–O–tetradecanoylphorbol 13–acetate. Isonishi S, et al. **J Biol Chem** 1990 Mar 5;265(7):3623–7

Cyclosporin A suppresses cisplatin–induced c–fos gene expression in ovarian carcinoma cells. Kashani–Sabet M, et al. **J Biol Chem** 1990 Jul 5;265(19):11285–8

Identification of a membrane glycoprotein overexpressed in murine lymphoma sublines resistant to cis–diamminedichloroplatinum(II). Kawai K, et al. **J Biol Chem** 1990 Aug 5;265(22):13137–42

cis–diamminedichloroplatinum(II) induced distortion of a single and double stranded deoxydecaaucleosidenonaphosphate studied by nuclear magnetic resonance. den Hartog JH, et al. **J Biomol Struct Dyn** 1985 Jun;2(6):1137–55

Cytostatic trans–platinum(II) complexes. Farrell N, et al. **J Med Chem** 1989 Oct;32(10):2240–1

In vitro and in vivo effects of cisplatin on the generation of lymphokine–activated killer cells. Allavena P, et al. **J Natl Cancer Inst** 1990 Jan 17;82(2):139–42

Analysis of events associated with cell cycle arrest at G2 phase and cell death induced by cisplatin. Sorenson CM, et al. **J Natl Cancer Inst** 1990 May 2;82(9):749–55

Differential regulation of heme and drug metabolism in rat testis and prostate: response to cis–platinum and human chorionic gonadotropin. Iscan M, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):73–9

Determinants of drug response in a cisplatin–resistant human lung cancer cell line. Fujiwara Y, et al. **Jpn J Cancer Res** 1990 May;81(5):527–35

Enhancement of cytotoxicity of cisplatin in vitro by recombinant human tumor necrosis factor and/or recombinant human interferon–alpha, –beta and –gamma. Kim CM, et al. **Jpn J Cancer Res** 1989 Sep;80(9):904–9

Mobilisation of lead by cisplatin [letter] Tothill P, et al. **Lancet** 1989 Dec 2;2(8675):1342

Magnesium perchlorate and cis–platinum as radiosensitizers in in vitro radiolysis of nucleotides. Anastassopoulou JD. **Magnes Res** 1990 Mar;3(1):19–21

Effects of cisplatin and two novel palladium complexes on Candida albicans. Moussa NM, et al. **Microbios** 1990; 62(252–253):165–78

Reduced membrane protein associated with resistance of human squamous carcinoma cells to methotrexate and cis–platinum. Bernal SD, et al. **Mol Cell Biochem** 1990 Jun 1;95(1):61–70

Differential effects of cisplatin on mouse hepatic and renal mitochondrial DNA. Maniccia–Bozzo E, et al. **Mol Cell Biochem** 1990 Apr 18;94(1):83–8

Analysis of proteins cross–linked to DNA after treatment of cells with formaldehyde, chromate, and cis–diamminedichloroplatinum(II). Miller CA 3d, et al. **Mol Toxicol** 1989 Winter;2(1):11–26

Immunodetection of DNA–protein crosslinks by slot blotting. Miller CA 3d, et al. **Mutat Res** 1990 Apr;234(2):97–106

Electrophoretic analysis of DNA modifications induced by cis– and trans–diamminedichloroplatinum (II) during heat–denaturation of conformation isomers of pBR322 DNA. Rauko P, et al. **Neoplasma** 1990;37(2):131–8

Crosslinking of transcription factor TFIIIA to ribosomal 5S RNA from X. laevis by trans–diamminedichloroplatinum (II). Baudin F, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):10035–46

Repair synthesis by human cell extracts in DNA damaged by cis– and trans–diamminedichloroplatinum(II). Hansson J, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8073–91

Formation of a DNA monofunctional cis–platinum adduct cross–linking the intercalating drug N–methyl–2,7–diazapyrenium. Malinge JM, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3887–91

Crosslinking of tRNA containing a long extra arm to elongation factor Tu by trans–diamminedichloroplatinum(II). Rasmussen NJ, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4883–90

Single d(ApG)/cis–diamminedichloroplatinum(II) adduct–induced mutagenesis in Escherichia coli. Burnouf D, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6087–91

Cisplatin–resistant cells express increased levels of a factor that recognizes damaged DNA. Chu G, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3324–8

Isolation of cDNAs encoding a human protein that binds selectively to DNA modified by the anticancer drug cis–diamminedichloroplatinum(II) [published erratum appears in Proc Natl Acad Sci U S A 1990 Feb;87(4):1625] Toney JH, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8328–32

Acute changes in the bladder reservoir function after irradiation alone or in combination with chemotherapy: a matter of mouse strain. Lundbeck F, et al. **Scand J Urol Nephrol Suppl** 1989;125:141–7

Changes in the esophageal epithelium in rabbits treated by Cis–dichlorodiammineplatinum as studied by electron microscopy. Albertsson M, et al. **Scanning Microsc** 1990 Mar;4(1):143–9

Comparison of the toxic and radiosensitizing effects of five therapeutic drugs on the mouse jejunum. Veena K, et al. **Strahlenther Onkol** 1990 Aug;166(8):554–6

A comparison of the effects of tetraplatin and cisplatin on renal function and gentamicin pharmacology in rats. Engineer MS, et al. **Toxicology** 1989 Dec 1;59(2):151–62

[Progress in anticancer platinum complexes] Chen LC, et al. **Yao Hsueh Hsueh Pao** 1989;24(3):234–40 (35 ref.) (Chi)

[Effect of cisplatin on healthy human renal tubular cells and cancerous cells in culture] Merlet D, et al. **Ann Pharm Fr** 1989;47(4):242–8 (Eng. Abstr.) (Fre)

[Increasing chemosensitivity to cisplatin by glutathione depletion with buthionine sulfoximine. In vitro and in vivo studies with a human squamous cell cancer line] Bier H. **Laryngorhinootologie** 1990 Jan;69(1):16–20 (Eng. Abstr.) (Ger)

[Changes in blood iron levels during cisplatin chemotherapy. Preliminary results] Sartori S, et al. **Medicina (Firenze)** 1990 Jan–Mar;10(1):48–9 (Eng. Abstr.) (Ita)

[A mechanism of cisplatin resistance in a cisplatin resistant lung cancer cell line] Bungo M, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):515–6 (Jpn)

[Combination effect of caffeine and cisplatin on a cisplatin resistant human lung cancer cell line] Ohsaki Y, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1339–43 (Eng. Abstr.) (Jpn)

[Analysis of the mechanism of increased antitumor activity of UFT after combined treatment with CDDP] Oie S, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1321–6 (Eng. Abstr.) (Jpn)

[Effect of the portal vein injection of cisplatin and lipiodol on rat liver] Ono Y, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3429–34 (Eng. Abstr.) (Jpn)

[Mechanisms for resistance and cross–resistance patterns of cisplatin–resistant tumor lines] Tashiro T. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):509–14 (Eng. Abstr.) (Jpn)

[The mechanism of resistance and its circumvention of cisplatin–resistant human ovarian cancer cells] Kikuchi Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep; 41(9):1348–52 (Eng. Abstr.) (Jpn)

[Characteristics of the action of cisplatin and cycloplatam on the rat kidney] Natochin IuV, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):52–4 (Eng. Abstr.) (Rus)

[Immunobiological activity of platinum coordination compounds in a complex with immunoglobulin fragments] Plotnikov VM, et al. **Biull Eksp Biol Med** 1989 Sep; 108(9):313–5 (Eng. Abstr.) (Rus)

[The action of cisplatin on the developing meso– and metanephros of chick embryos] Zemanová Z, et al. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):474–80 (Eng. Abstr.) (Rus)

POISONING

Mitochondrial injury: an early event in cisplatin toxicity to renal proximal tubules. Brady HR, et al. **Am J Physiol** 1990 May;258(5 Pt 2):F1181–7

Overdosage intoxication with cisplatin—a cause of acute respiratory failure. Fassoulaki A, et al. **J R Soc Med** 1989 Nov;82(11):689

RADIATION EFFECTS

Radiation chemistry of cis–platinum–nucleotide complexes. Anastassopoulou JD, et al. **Anticancer Res** 1990 Jul–Aug; 10(4):983–6

THERAPEUTIC USE

Peritoneal washing cytology at second–look laparotomy in cisplatin–treated ovarian cancer patients. Kudo R, et al. **Acta Cytol** 1990 Jul–Aug;34(4):545–8

Radiosensitizing with cis–platin in advanced head and neck cancer. Results and problems. Klima A, et al. **Acta Otorhinolaryngol Belg** 1989;43(3):231–8

A randomized phase II study of cisplatin alone versus cisplatin plus disulfiram. Verma S, et al. **Am J Clin Oncol** 1990 Apr;13(2):119–24

Clinical, analytical and pharmacokinetic aspects in cancer chemotherapy with platinum coordination compounds. Caroli S, et al. **Ann Ist Super Sanita** 1989;25(3):487–97

Long–term survival of patients with advanced ovarian carcinoma treated with cisplatin–based chemotherapy regimens. De Pree N, et al. **Anticancer Res** 1989 Nov–Dec; 9(6):1869–71 (21 ref.)

Evaluation of cisplatin dose intensity: current status and future prospects. Gandara DR, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1121–8 (51 ref.)

Adjuvant therapy for resectable oesophageal cancer: results of a pilot study. Gignoux M, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1023–4

Molecular basis of cisplatin resistance in human carcinomas: model systems and patients. Scanlon KJ, et al. **Anticancer Res** 1989 Sep–Oct;9(5):1301–12 (57 ref.)

A new combination chemotherapy for the treatment of endodermal sinus tumour. Cheung TH, et al. **Aust N Z J Obstet Gynaecol** 1989 Aug;29(3 (Pt 2)):346–9

Synergism between 4–hydroperoxycyclophosphamide and cisplatin: importance of incubation sequence and measurement of cisplatin accumulation. Peters RH, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):607–9

Notes on the cardiotoxicity of platinum complexes (except 1–OHP) in ultrastructural study. Anjo A, et al. **Biomed Pharmacother** 1989;43(4):265–6

Oxalato–platinum or 1–OHP, a third–generation platinum complex: an experimental and clinical appraisal and preliminary comparison with cis–platinum and carboplatinum. Mathé G, et al. **Biomed Pharmacother** 1989; 43(4):237–50

Potential therapeutic role of cisplatinum in autologous bone marrow transplantation: in vitro eradication of neuroblastoma cells from bone marrow. Bettan–Renaud L, et al. **Br J Cancer** 1989 Oct;60(4):529–32

Ploidy as a prognostic indicator in end stage squamous cell carcinoma of the head and neck region treated with cisplatinum. Cooke LD, et al. **Br J Cancer** 1990 May; 61(5):759–62

Cisplatin/carboplatin cross–resistance in ovarian cancer. Gore ME, et al. **Br J Cancer** 1989 Nov;60(5):767–9

Alternatives to radiotherapy in the management of seminoma. Oliver RT, et al. **Br J Urol** 1990 Jan;65(1):61–7

Adult Wilms' tumor. Cisplatin and etoposide for relapse after adjuvant chemotherapy. Abratt RP, et al. **Cancer** 1990 Feb 15;65(4):890–2

High–dose cisplatin for metastatic soft tissue sarcoma. Budd GT, et al. **Cancer** 1990 Feb 15;65(4):866–9

Enhancement of cisplatin (DDP) antitumor activity by 3–aminobenzamide in rat ovarian tumors sensitive and resistant to DDP in vivo. Chen G, et al. **Cancer Chemother Pharmacol** 1990;26(1):37–41

The 5–HT3 antagonist, BRL 43694, does not compromise the efficacy of cisplatin in tumour–bearing mice. Goddard PM, et al. **Cancer Chemother Pharmacol** 1990;25(5):377–9

High–dose cisplatin in disseminated melanoma: a comparison of two schedules. Mortimer JE, et al. **Cancer Chemother Pharmacol** 1990;25(5):373–6

Morphological change and cellular differentiation induced by cisplatin in human neuroblastoma cell lines. Parodi MT, et al. **Cancer Chemother Pharmacol** 1989;25(2):114–6

A phase II study of etoposide combined with ifosfamide as second–line therapy in cisplatin–resistant ovarian carcinomas. Tropé C, et al. **Cancer Chemother Pharmacol** 1990;26 Suppl:S45–7

Differential gene expression in human cancer cells resistant to cisplatin. Scanlon KJ, et al. **Cancer Invest** 1989; 7(6):581–7 (49 ref.)

Increased therapeutic gain of combined cis–diamminedichloroplatinum (II) and whole body hyperthermia therapy by optimal heat/drug scheduling. Baba H, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7041–4

Evaluation of platinum–DNA adduct levels relative to known prognostic variables in a cohort of ovarian cancer patients. Reed E, et al. **Cancer Res** 1990 Apr 15; 50(8):2256–60

Combination chemotherapy with cisplatin and nifedipine: synergistic antitumor effects against a cisplatin–resistant subline of the B16 amelanotic melanoma. Onoda JM, et al. **Clin Exp Metastasis** 1990 Jan–Feb;8(1):59–73

Resistance to cisplatin: how to deal with the problem? [comment] Canon JL, et al. **Eur J Cancer** 1990 Jan;26(1):1–3 (16 ref.) Comment on: Eur J Cancer Clin Oncol 1989 Apr;25(4):619–25.

Effect of topoisomerase modulators on cisplatin cytotoxicity in human ovarian carcinoma cells. Katz EJ, et al. **Eur J Cancer** 1990;26(6):724–7

Development and characterization of cisplatin–resistant human testicular and bladder tumour cell lines. Walker MC, et al. **Eur J Cancer** 1990;26(6):742–7

Treatment of relapsed carcinoma of the ovary with cisplatin or carboplatin following initial treatment with these compounds. Gore ME, et al. **Gynecol Oncol** 1990 Feb; 36(2):207–11

Pharmacokinetics of intraperitoneal doxorubicin in combination with systemic cyclophosphamide and cis–platinum in the treatment of stage III ovarian cancer. Malviya VK, et al. **Gynecol Oncol** 1990 Feb;36(2):185–8

Clinical features of advanced ovarian mixed mesodermal tumors and treatment with doxorubicin– and cis–platinum–based chemotherapy. Plaxe SC, et al. **Gynecol Oncol** 1990 May;37(2):244–9

Long–term follow–up of potentiation of radiotherapy by cis–platinum in advanced cervical cancer. Wong LC, et al. **Gynecol Oncol** 1989 Nov;35(2):159–63

Enhancement of the antiproliferative activity of cis–diamminedichloroplatinum(II) by quercetin. Hofmann J, et al. **Int J Cancer** 1990 Mar 15;45(3):536–9

Systemic chemotherapy in tumor–bearing rats using high–dose cis–diamminedichloroplatinum(II) with low nephrotoxicity in combination with angiotensin II and sodium thiosulfate. Kobayashi H, et al. **Int J Cancer** 1990 May 15;45(5):940–4

The effect of cis–diamminedichloroplatinum(II) treatment at elevated temperatures on murine fibrosarcoma, FSa–II. Urano M, et al. **Int J Hyperthermia** 1990 May–Jun; 6(3):563–70

A phase I–II trial of cisplatin, hyperthermia and radiation in patients with locally advanced malignancies. Herman TS, et al. **Int J Radiat Oncol Biol Phys** 1989 Dec; 17(6):1273–9

Limb–sparing treatment for osteosarcoma in dogs. LaRue SM, et al. **J Am Vet Med Assoc** 1989 Dec 15; 195(12):1734–44

Comparative effect of cisplatin, spiroplatin, carboplatin and iproplatin in a human tumor clonogenic assay. Schroyens W, et al. **J Cancer Res Clin Oncol** 1990;116(4):392–6

Chemo-radiotherapy in patients with locally advanced nasopharyngeal carcinoma: a radiation therapy oncology group study. al-Sarraf M, et al. **J Clin Oncol** 1990 Aug; 8(8):1342-51

Intraperitoneal carboplatin: favorable results in women with minimal residual ovarian cancer after cisplatin therapy. Speyer JL, et al. **J Clin Oncol** 1990 Aug;8(8):1335-41

Comparing cisplatin and carboplatin [letter; comment] Neijt JP, et al. **J Natl Cancer Inst** 1990 Mar 7;82(5):434-5 Comment on: J Natl Cancer Inst 1989 Oct 4;81(19):1464-71.

The combined effects of shock waves and cisplatin therapy on rat prostate tumors. Holmes RP, et al. **J Urol** 1990 Jul; 144(1):159-63

Dipyridamole-cisplatin potentiation: enhanced in vivo cytotoxicity in xenograft models of human testicular and bladder cancers. Keane TE, et al. **J Urol** 1990 Oct; 144(4):1004-9

Cisplatin (cisdiamminedichloroplatinum) for treatment of transitional cell carcinoma of the urinary bladder or urethra. A retrospective study of 15 dogs. Moore AS, et al. **J Vet Intern Med** 1990 May-Jun;4(3):148-52

Advantages in combination chemotherapy using cisplatin and its analogues for human testicular tumor xenografts. Hida S, et al. **Jpn J Cancer Res** 1990 Apr;81(4):425-30

Possible mechanisms of resistance to cis-diamminedichloroplatinum (II) of human ovarian cancer cells. Kikuchi Y, et al. **Jpn J Cancer Res** 1990 Jun-Jul;81(6-7):701-6

Pilot phase II study of cis-diamminedichloroplatinum (II) against metastatic gastric cancers. Miyamoto K, et al. **Jpn J Clin Oncol** 1990 Jun;20(2):169-76

The relationship between serum water proton T1 and protein content in the P388 leukemic mouse and the effect of chemotherapy by cis-diamminedichloroplatinum(II). Raeymaekers HH, et al. **NMR Biomed** 1988 Apr;1(2):80-9

31P NMR study of cisplatin- and doxorubicin-induced changes in tumour metabolism in rats with a cisplatin-sensitive or -resistant immunocytoma. Sijens PE, et al. **NMR Biomed** 1990 Jun;3(3):124-31

Combined chemotherapy and hyperthermia for ovarian cancer studied at Duke [news] **Oncology (Williston Park)** 1990 May;4(5):134

Multidrug resistance to alkylating agents and platinum compounds: state of our knowledge. Hamilton TC, et al. **Oncology (Williston Park)** 1990 Mar;4(3):101-6; discussion 106, 109

Accelerated fractionated irradiation with simultaneous cisplatin infusion in advanced head and neck cancer. Karstens JH, et al. **Onkologie** 1989 Aug;12(4):187-9

A possible mechanism of tumor regression in cisplatin-treated mice. Sarna S, et al. **Pol J Pharmacol Pharm** 1989 Jan-Feb; 41(1):69-76

Intraarterial chemotherapy for bladder cancer. Jacobs SC, et al. **Prog Clin Biol Res** 1990;350:101-6

[Chemotherapeutic intensification in germ cell tumors] Droz JP, et al. **Bull Cancer (Paris)** 1990;77(4):349-54 (Eng. Abstr.) **(Fre)**

[Adjuvant chemotherapy using adriamycin and cisplatin in infiltrating cancer of the bladder. Prospective study of 49 cases] Azab M, et al. **J Urol (Paris)** 1989;95(8):459-63 (Eng. Abstr.) **(Fre)**

[Structure-activity relations of antineoplastic platinum II and platinum IV coordination compounds] Gutsche W, et al. **Arch Geschwulstforsch** 1989;59(4):233-8 (Eng. Abstr.) **(Ger)**

[Experiences with simultaneous cytostatic and radiotherapy treatment of advanced cancer of the head and neck] Ehr R, et al. **Laryngorhinootologie** 1990 Jun;69(6):312-5 (Eng. Abstr.) **(Ger)**

[Cyto- and histomorphologic changes in the Jensen sarcoma exposed to cisplatin, radiotherapy and combination treatment] Langrock K, et al. **Radiobiol Radiother (Berl)** 1989;30(6):541-5 (Eng. Abstr.) **(Ger)**

[Hyperfractionated irradiation with simultaneous cisplatin chemotherapy in patients with far-advanced carcinoma of the head and neck] Glanzmann C, et al. **Strahlenther Onkol** 1990 Jun;166(6):397-401 (Eng. Abstr.) **(Ger)**

[Combined radiotherapy with cis- or carboplatin in advanced head and neck tumors] Zamboglou N, et al. **Strahlenther Onkol** 1989 Sep;165(9):647-51 (Eng. Abstr.) **(Ger)**

[Radiation therapy with or without cisplatin in esophageal carcinoma] Chatani M, et al. **Gan No Rinsho** 1989 Dec; 35(15):1723-7 (Eng. Abstr.) **(Jpn)**

[Relationship between the effectiveness of CDDP therapy and the nuclear DNA content in advanced-recurrent gastric cancer cases] Chikaishi T, et al. **Gan No Rinsho** 1989 Dec;35(15):1739-44 (Eng. Abstr.) **(Jpn)**

[Assessment of cisplatin in concurrent use with radiotherapy in esophageal carcinoma—joint research among nationwide multi-facilities, primary results. Research Committee for Radiation and Cisplatin Treatment of Esophageal Carcinoma] Ishikawa T, et al. **Gan No Rinsho** 1990 Jan; 36(1):1-6 (Eng. Abstr.) **(Jpn)**

[A case of remission in metastatic lung tumor from hepatocellular carcinoma after combined CDDP and PSK therapy] Miyanaga O, et al. **Gan No Rinsho** 1990 Mar; 36(4):527-31 (Eng. Abstr.) **(Jpn)**

[A clinical study of intraarterial infusion therapy with CDDP for primary osteosarcoma] Eiro I, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):47-52 (Eng. Abstr.) **(Jpn)**

[Intrapleural administration of CDDP against malignant pleural effusions in breast cancer] Kikuchi K, et al. **Gan To Kagaku Ryoho** 1990 Sep;17(9):1905-8 (Eng. Abstr.) **(Jpn)**

[Effect of sodium thiosulfate on the anti-tumor effect and nephrotoxicity of CDDP in human gastric cancer] Saito D, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):959-63 (15 ref.) **(Jpn)**

[Recurrent germinoma successfully treated with cisplatin. Case report] Hida K, et al. **Neurol Med Chir (Tokyo)** 1989 Jun;29(6):510-4 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Scanning electron microscopic observation of mouse ascitic carcinoma cells after intraperitoneal chemotherapy with cisplatinum] Kurokawa T, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Jul 20;24(7):1447-53 (Eng. Abstr.) **(Jpn)**

[Evaluation of preoperative chemoembolization using ethiodized oil, cisplatin and gelatin sponge (sandwich therapy) for hepatocellular carcinoma] Shibata T, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):859-63 (Eng. Abstr.) **(Jpn)**

[Clinical studies of bronchial arterial infusion of CDDP for the treatment of lung cancer—research on the platinum concentration in the tumor and pulmonary parenchyma] Murakami M. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jul 25;49(7):880-91 (Eng. Abstr.) **(Jpn)**

[Changes in radiation lesions using platinum derivatives. Biological bases and clinical experience] Calvo FA, et al. **Rev Esp Fisiol** 1989;45 Suppl:315-21 (51 ref.) (Eng. Abstr.) **(Spa)**

TOXICITY

Cisplatin-induced neurotoxicity with seizures in frogs. Bliaard KS, et al. **Ann Neurol** 1989 Sep;26(3):336-41

Toxicity of [PtCl2(NH3)L] in hypoxia; L = misonidazole or metronidazole. Skov KA, et al. **Anticancer Drug Des** 1990 Feb;5(1):121-8

Thiol and thioether suppression of cis-platinum-induced nephrotoxicity in rats bearing the Walker 256 carcinosarcoma. Jones MM, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1937-41

Damaging effects of cisplatin on mouse spermatozoa. Oshio S, et al. **Arch Androl** 1990;24(2):113-20

Nephrotoxicity of cisplatin, carboplatin and transplatin. A comparative in vitro study. Hannemann J, et al. **Arch Toxicol** 1990;64(5):393-400

Role of endogenous sulfur-containing nucleophiles in an in vitro model of cis-diamminedichloroplatinum(II)-induced nephrotoxicity. Montine TJ, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1751-7

Cisplatin nephrotoxicity. A review. Daugaard G, et al. **Cancer Chemother Pharmacol** 1989;25(1):1-9 (94 ref.)

Protection against cisplatin nephrotoxicity by prochlorperazine. Kramer RA. **Cancer Chemother Pharmacol** 1989;25(3):156-60

Evidence for lack of mitochondrial DNA repair following cis-dichlorodiammineplatinum treatment. Singh G, et al. **Cancer Chemother Pharmacol** 1990;26(2):97-100

Reduction in cis-diamminedichloroplatinum(II)-induced cytotoxicity, sister chromatid exchange, and DNA interstrand cross-links in 9L cells treated with the polyamine biosynthesis inhibitor (2R,5R)-6-heptyne-2,5-diamine. Milam KM, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6945-8

Parathyroidectomy has a beneficial effect on experimental cisplatin nephrotoxicity. Capasso G, et al. **Clin Nephrol** 1990 Apr;33(4):184-91

Cisplatin: nephrotoxic action in vertebrates and its prevention. Natochin YuV, et al. **Comp Biochem Physiol [C]** 1989;94(1):115-20

Tissue injury and repair in the rat kidney after exposure to cisplatin or carboplatin. Nonclercq D, et al. **Exp Mol Pathol** 1989 Oct;51(2):123-40

Age dependent differences in the functional and morphological impairment of kidney following cisplatin administration. Appenroth D, et al. **Exp Pathol** 1990; 38(4):231-9

L-methionine suppresses pathological sequelae of cis-platinum in the rat. Basinger MA, et al. **Fundam Appl Toxicol** 1990 Apr;14(3):568-77

The application of renal cells in culture in studying drug-induced nephrotoxicity. Williams PD. **In Vitro Cell Dev Biol** 1989 Sep;25(9):800-5

Interaction of heat with X-rays and cis-platinum; cell lethality and oncogenic transformation [published erratum appears in Int J Hyperthermia 1990 Mar-Apr;6(2):474] Miller RC, et al. **Int J Hyperthermia** 1989 Nov-Dec; 5(6):697-705

Interaction between cisplatin and mesna in mice. Dorr RT, et al. **J Cancer Res Clin Oncol** 1989;115(6):604-5

Improved use of buthionine sulfoximine to prevent cisplatin nephrotoxicity in rats. Mayer RD, et al. **J Cancer Res Clin Oncol** 1989;115(5):418-22

Enhanced malignant conversion of benign mouse skin tumors by cisplatin. Hennings H, et al. **J Natl Cancer Inst** 1990 May 16;82(10):836-40

Vibration perception and thermoperception as quantitative measurements in the monitoring of cisplatin induced neurotoxicity. Elderson A, et al. **J Neurol Sci** 1989 Nov; 93(2-3):167-74

Optimum schedule of selenium administration to reduce lethal and renal toxicities of cis-diamminedichloroplatinum in mice. Satoh M, et al. **J Pharmacobiodyn** 1989 Apr; 12(4):246-53

The deleterious effect of buthionine sulfoximine, a glutathione-depleting agent, on the cisplatin toxicity in mice. Ishikawa M, et al. **Jpn J Pharmacol** 1990 Apr; 52(4):652-5

Clastogenic effects of cis-diamminedichloroplatinum. II. Induction of chromosomal aberrations in primary spermatocytes and spermatogonial stem cells of mice. Adler ID, et al. **Mutat Res** 1990 Mar;243(3):173-8

Female-specific dominant lethal effects in mice. Katoh MA, et al. **Mutat Res** 1990 Jun;230(2):205-17

cis-diamminedichloroplatinum(II)-induced sister-chromatid exchanges and chromosome aberration formation in cultured human lymphocytes and their inhibition by sodium thiosulfate. Ohe T, et al. **Mutat Res** 1990 Aug;244(4):279-85

Induction of micronucleated and binucleate cells in Chinese hamster ovary (CHO) cells by cis-diamminedichloroplatinum (II): a morphological and morphometric study. Rodilla V, et al. **Mutat Res** 1990 Jun; 241(2):115-24

Cisplatin neurotoxicity [letter] **N Engl J Med** 1990 Jul 5; 323(1):64-5

Cisplatin neurotoxicity [editorial: comment] Mollman JE. **N Engl J Med** 1990 Jan 11;322(2):126-7 Comment on: N Engl J Med 1990 Jan 11;322(2):89-94.

Prevention of cisplatin neurotoxicity with an ACTH(4-9) analogue in patients with ovarian cancer [see comments] van der Hoop RG, et al. **N Engl J Med** 1990 Jan 11; 322(2):89-94 Comment in: N Engl J Med 1990 Jan 11;322(2):126-7.

Acute cisplatin nephrotoxicity in the rat. Evidence for impaired entry of sodium into proximal tubule cells. Field MJ, et al. **Pflugers Arch** 1989 Sep;414(6):647-50

Application of the 32P-postlabelling technique to detect DNA-adducts by cisplatin and methylating agents. Mustonen R, et al. **Prog Clin Biol Res** 1990;340C:293-300

The effect of cis-diamminedichloroplatinum(II) on radiation damage in mouse rectum after fractionated irradiation. Dewit L, et al. **Radiother Oncol** 1989 Oct;16(2):121-8

Enhancement of cisplatin toxicity by buthionine sulfoximine, a glutathione-depleting agent, in mice. Ishikawa M, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jan; 67(1):131-41

L-methionine antagonism of cis-platinum nephrotoxicity. Basinger MA, et al. **Toxicol Appl Pharmacol** 1990 Mar 15; 103(1):1-15

Cisplatin nephrotoxicity in lead-pretreated rats: enzymatic and morphological studies. Bompart G, et al. **Toxicol Lett** 1990 Feb;50(2-3):237-47

Ototoxic and nephrotoxic drugs inhibit agonist-induced inositol phosphate formation in rat brain synaptoneurosomes. Guiramand J, et al. **Toxicol Lett** 1990 May;51(3):331-8

Cisplatin: effects on the stretch receptor neuron of the crayfish. Laurell G, et al. **Toxicol Lett** 1990 Aug; 52(3):339-45

Influence of streptozotocin (STZ)-induced diabetes, dextrose diuresis and acetone on cisplatin nephrotoxicity in Fischer 344 (F344) rats. Scott LA, et al. **Toxicology** 1990 Jan-Feb; 60(1-2):109-25

A possible cellular mechanism of cisplatin-induced nephrotoxicity. Singh G. **Toxicology** 1989 Sep;58(1):71-80

[Use of in vitro methods in the immunotoxicologic evaluation of drugs] Vančurová M, et al. **Cesk Farm** 1989 Jul; 38(6):269-71 (Eng. Abstr.) **(Cze)**

[Acute and subacute toxicity of antineoplastic Pt(II) and Pt(IV) coordination compounds in laboratory rodents] Härtl A, et al. **Arch Geschwulstforsch** 1989;59(4):239-44 (Eng. Abstr.) **(Ger)**

[Nephrotoxicity and myelotoxicity of antineoplastic Pt(II) and Pt(IV) coordination compounds in rats] Horn U, et al. **Arch Geschwulstforsch** 1989;59(4):245-50 (Eng. Abstr.) **(Ger)**

[Toxicity of cis-platinum loaded with lactic acid oligomer microspheres in mice] Sasabe T, et al. **Gan No Rinsho** 1990 Jun;36(7):821-3 (Eng. Abstr.) **(Jpn)**

[Studies on protective effect of selenium on the nephrotoxicity of cis-diamminedichloroplatinum (CDDP) in mice] Araya Y. **Hokkaido Igaku Zasshi** 1990 May; 65(3):245-53 (Eng. Abstr.) **(Jpn)**

[The mechanisms of a decrease in the toxic action of cisplatin when administered jointly with preparation K-2-9 to mice with melanoma B16] Chekhun VF, et al. **Eksp Onkol** 1990; 12(2):68-71 (Eng. Abstr.) **(Rus)**

URINE

[Urinary excretion of mutagens and cisplatin among the nursing staff at a medical oncology department exposed to cytostatic drugs] Clonfero E, et al. **Med Lav** 1989 Sep-Oct;80(5):412-9 (Eng. Abstr.) **(Ita)**

CISTERNA CHYLI see THORACIC DUCT

CISTERNA MAGNA

Pathogenesis of pulmonary edema associated with intracisternal endotoxin in dogs. Nahum A, et al. **J Appl Physiol** 1990 Apr;68(4):1683-95

RADIOGRAPHY

[Experience of air–CT cisternography] Murata K, et al. **Rinsho Hoshasen** 1990 Apr;35(4):439–44 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Cisternographic pattern of spontaneous liquoral hypotension. Molins A, et al. **Cephalalgia** 1990 Apr;10(2):59–65

SURGERY

[Supratentorial craniotomy of the cisternal clot removal in cases with ruptured aneurysms in the posterior fossa] Niwa J, et al. **No Shinkei Geka** 1990 Apr;18(4):385–9 (Eng. Abstr.) **(Jpn)**

CISTERNOGRAPHY, MYELOGRAPHIC see MYELOGRAPHY

CISTERNOGRAPHY, PNEUMOENCEPHALOGRAPHIC see PNEUMOENCEPHALOGRAPHY

CISTRON see GENES, STRUCTURAL

CITALOPRAM

Partial purification of the 5-hydroxytryptophan-reuptake system from human blood platelets using a citalopram-derived affinity resin. Biesen EA, et al. **Biochemistry** 1990 Apr 3;29(13):3349–54

Synthesis of a selective serotonin uptake inhibitor: [11C]citalopram. Dannals RF, et al. **Int J Rad Appl Instrum [A]** 1990;41(6):541–3

ANALOGS & DERIVATIVES

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction. Rop PP, et al. **J Chromatogr** 1990 Apr 27;527(1):226–32

BLOOD

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction. Rop PP, et al. **J Chromatogr** 1990 Apr 27;527(1):226–32

METABOLISM

Regional distribution of the serotonin transport complex in human brain, identified with 3H-paroxetine, 3H-citalopram and 3H-imipramine. Plenge P, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(1):61–72

PHARMACOLOGY

Serotonin autoreceptor subsensitivity and antidepressant activity. Moret C, et al. **Eur J Pharmacol** 1990 May 16; 180(2–3):351–6

Interaction between serotonin uptake inhibitors and alpha-2 adrenergic heteroreceptors in the rat hypothalamus. Blier P, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):236–44

Modulation by drugs of the release of total tritium and 3H-5-HT from rat hypothalamic slices. Moret C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 May; 341(5):398–403

Effects of antidepressant drugs on inositol phospholipid hydrolysis in rat cerebral cortical slices. Dyck LE, et al. **Neurochem Res** 1989 Nov;14(11):1047–52

Restraint stress-induced changes in saccharin preference: the effect of antidepressive treatment and diazepam. Ploźnik A, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):755–9

The effect of repeated administration of antidepressant drugs on the thyrotropin-releasing hormone (TRH) content of rat brain structures. Przegalinski E, et al. **Psychoneuroendocrinology** 1990;15(2):147–53

[Changes in 5-HT2 receptor density induced by repeated treatment with 5-HT uptake inhibitor or 5-HT agonist] Kubota M, et al. **Yakubutsu Seishin Kodo** 1989 Sep; 9(3):289–92 (Eng. Abstr.) **(Jpn)**

CITELLUS see SCIURIDAE

CITRACONIC ACID see under MALEATES

CITRACONIC ANHYDRIDES see under FURANS

CITRATE CLEAVAGE ENZYME see ATP CITRATE LYASE

CITRATE HYDRO-LYASE see ACONITATE HYDRATASE

CITRATE SYNTHASE see under KETOACID-LYASES

CITRATES

Variable citrate interference in arsenazo III dye assays of total calcium in serum [letter; comment] Beilby J, et al. **Clin Chem** 1990 May;36(5):824–5 Comment on: Clin Chem 1989 Oct;35(10):2140–1.

Citrate interference in assays of total calcium in serum [see comments] Gawoski JM, et al. **Clin Chem** 1989 Oct; 35(10):2140–1 Comment in: Clin Chem 1990 May;36(5):824–5.

Seizures induced by fluoroacetic acid and fluorocitric acid may involve chelation of divalent cations in the spinal cord. Hornfeldt CS, et al. **Eur J Pharmacol** 1990 Apr 25; 179(3):307–13

Calciphylaxis induced by iron-citrate sorbitol. Raica M. **Exp Pathol** 1990;38(3):196–200

Morphological classification by scanning electron microscopy of erythrocytes stored at 4 degrees C in citrate-phosphate-dextrose anticoagulant. Truter EJ, et al. **Med Lab Sci** 1990 Apr;47(2):113–9

Inappropriate use of non-siliconized citrate tubes for clotting tests [letter] Exner T, et al. **Pathology** 1990 Jan;22(1):50

Acid and NaCl self-adaptation with micro-drop stimulation of fungiform papillae. McCutcheon B, et al. **Physiol Behav** 1989 Oct;46(4):613–8

Inhibition by sodium citrate on 67Ga adsorption to various materials. Kohno H, et al. **Radioisotopes** 1990 Jan; 39(1):20–3

Studies in red blood cell preservation. 2. Comparison of vesicle formation, morphology, and membrane lipids during storage in AS-1 and CPDA-1. Greenwalt TJ, et al. **Vox Sang** 1990;58(2):90–3

[Comparative study of the ingestion of a sodium citrate and cimetidine-citrate combination before emergency obstetrical anesthesia: effects of pH and volume of stomach contents] Jasson J, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R29 **(Fre)**

ADMINISTRATION & DOSAGE

Individual responses to methylphenidate and caffeine in children with minimal brain dysfunction. Garfinkel BD, et al. **Can Med Assoc J** 1975 Oct 18;113(8):729–32

Development of a citric acid aerosol as a smoking cessation aid. Levin ED, et al. **Drug Alcohol Depend** 1990 Jun; 25(3):273–9

Blood-red residual after cherry-flavored magnesium citrate [letter] Slimak G, et al. **Gastrointest Endosc** 1990 Jan-Feb; 36(1):79–80

Re: Reduction of infection stones in rats by combined antibiotic and phosphocitrate therapy [letter; comment] Roberts JA. **J Urol** 1990 Jan;143(1):135 Comment on: J Urol 1988 Nov;140(5):1063–6.

ADVERSE EFFECTS

Two regimens of lithium prophylaxis and renal function. Muir A, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):579–83

Citrate-induced impairment of neuromuscular transmission in human and experimental autoimmune myasthenia gravis. Wirguin I, et al. **Ann Neurol** 1990 Mar;27(3):328–30

Inhalation of Carbex [letter] Mills JO. **Clin Radiol** 1990 Jan; 41(1):69–70

Importance of inspiratory flow rate in the cough response to citric acid inhalation in normal subjects. Barros MJ, et al. **Clin Sci** 1990 May;78(5):521–5

Acute aluminemic encephalopathy in chronic renal failure: the citrate factor. Bakir AA. **Int J Artif Organs** 1989 Dec; 12(12):741–3

Long-term effects of lithium on the kidney: functional-morphological correlations. Hetmar O, et al. **J Psychiatr Res** 1989;23(3–4):285–97

[Effect of methylxanthines on periodic respiration and acid gastroesophageal reflux in newborn infants] Skopnik H, et al. **Monatsschr Kinderheilkd** 1990 Mar;138(3):123–7 (Eng. Abstr.) **(Ger)**

ANALYSIS

Prenatal diagnosis of propionic and methylmalonic acidaemia by stable isotope dilution analysis of amniotic fluid. Holm J, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:271–3

BLOOD

[Significance of citric acid analysis in clinical tests] Isshiki G, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:479–81 **(Jpn)**

DIAGNOSTIC USE

Orbital pseudotumor imaged with Ga-67 citrate. Jaikishen P, et al. **Clin Nucl Med** 1989 Nov;14(11):838–40

Avid accumulation of Ga-67 citrate in adenocarcinoma of pancreas. Kudo M, et al. **Clin Nucl Med** 1989 Nov; 14(11):843–5

Gallium SPECT detection of neoplastic intravascular obstruction of the superior vena cava. Swayne LC, et al. **Clin Nucl Med** 1989 Nov;14(11):823–6

Rate and concentration dependence of parathyroid hormone dynamics during stepwise changes in serum ionized calcium in normal humans. Grant FD, et al. **J Clin Endocrinol Metab** 1990 Aug;71(2):370–8

Altered biodistribution of gallium-67 in a patient with aluminum toxicity treated with desferoxamine. Brown SJ, et al. **J Nucl Med** 1990 Jan;31(1):115–7

Gallium-67-citrate imaging in the detection of focal lesions for anemia, proteinuria, and prolonged fever [clinical conference] Misaki T, et al. **J Nucl Med** 1990 Apr; 31(4):512–5

Imaging of intrathoracic disease with indium 111-labeled leukocytes. Oates E, et al. **J Thorac Imaging** 1990 Jul; 5(3):78–88 (49 ref.)

Noninvasive staging of lung cancer. Indications and limitations of gallium-67 citrate imaging. Bekerman C, et al. **Radiol Clin North Am** 1990 May;28(3):497–10 (92 ref.)

[Analysis of diffuse gallium lung uptake—with special reference to prognosis of drug-induced pneumonitis] Harada M, et al. **Kaku Igaku** 1989 May;26(5):633–9 **(Jpn)**

[Pericardial fibrosarcoma demonstrated by Ga-67 scintigraphy] Kumita S, et al. **Kaku Igaku** 1989 Jun; 26(6):787–92 (Eng. Abstr.) **(Jpn)**

[The evaluation of the bone marrow accumulation of Ga-67 citrate] Ohnishi T, et al. **Kaku Igaku** 1989 Nov; 26(11):1371–9 (Eng. Abstr.) **(Jpn)**

[Diffuse abdominal uptake of 67Ga-citrate; report of three cases] Itoh K, et al. **Rinsho Hoshasen** 1989 Nov; 34(12):1497–500 (Eng. Abstr.) **(Jpn)**

[Diagnostic imaging of 67 Ga scintigraphy and CT x-ray] Takeda Y, et al. **Rinsho Hoshasen** 1990 Jan;35(1):105–6 **(Jpn)**

ISOLATION & PURIFICATION

Staphyloferrin A: a structurally new siderophore from staphylococci. Konetschny-Rapp S, et al. **Eur J Biochem** 1990 Jul 20;191(1):65–74

Isolation and characterization of staphyloferrin A, a compound with siderophore activity from Staphylococcus hyicus DSM 20459. Meiwes J, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1–2):201–5

METABOLISM

The renal utilization of citric acid in idiopathic hypercalciuria. Brodwall EK, et al. **Acta Med Scand** 1967 Jan;181(6):725–8

Localization of pyruvate carboxylase in organic acid-producing Aspergillus strains. Bercovitz A, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1594–7

Evidence in vitro for an enzymatic synthesis of phosphocitrate. Moro L, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):251–8

The fate of [3-13C]citrate in renal cells monitored by 13C n.m.r. [letter] Jans AW. **Biochem J** 1989 Nov 1;263(3):997–8

Changes in the concentration of fructose 2,6-bisphosphate in Aspergillus niger during stimulation of acidogenesis by elevated sucrose concentration. Kubicek-Pranz EM, et al. **Biochim Biophys Acta** 1990 Mar 26;1033(3):250–5

Phosphorylation of citrate lyase ligase in Clostridium sphenoides and regulation of anaerobic citrate metabolism in other bacteria. Antranikian G, et al. **Biochimie** 1989 Sep-Oct;71(9–10):1029–37 (39 ref.)

DNA sequence of a citrate carrier of Klebsiella pneumoniae. van der Rest ME, et al. **Eur J Biochem** 1990 Apr 30; 189(2):401–7

Molybdenum cofactor negative mutants of Escherichia coli use citrate anaerobically. Clark DP. **FEMS Microbiol Lett** 1990 Feb;55(3):245–9

Protoplast fusion in Aspergillus niger strains accumulating citric acid. Martínková L, et al. **Folia Microbiol (Praha)** 1990;35(2):143–8

Selection of a hyperproducing strain of Aspergillus niger for biosynthesis of citric acid on unusual carbon substrates. Pelechová J, et al. **Folia Microbiol (Praha)** 1990; 35(2):138–42

Interaction of citrate with Fe(III)-bleomycin. Løvstad RA. **Int J Biochem** 1989;21(9):1039–42

Citrate as a siderophore in Bradyrhizobium japonicum. Guerinot ML, et al. **J Bacteriol** 1990 Jun;172(6):3298–303

Interaction between lithium salts and ispaghula husk [letter] Perlman BB. **Lancet** 1990 Feb 17;335(8686):416

Studies on citrate metabolism in normal subjects and kidney stone patients. Minisola S, et al. **Miner Electrolyte Metab** 1989;15(5):303–8

Prostate epithelial cells utilize glucose and aspartate as the carbon sources for net citrate production. Costello LC, et al. **Prostate** 1989;15(4):335–42

Prolactin directly stimulates citrate production and mitochondrial aspartate aminotransferase of prostate epithelial cells. Franklin RB, et al. **Prostate** 1990;17(1):13–8

Effects of citrated plasma on pulmonary capillary permeability. Mayer JE Jr, et al. **Surg Forum** 1978;29:185–7

[Citric acid biosynthesis by Aspergillus niger strain IM-13 on a nutrient medium with methanol] Georgieva M, et al. **Acta Microbiol Bulg** 1989;24:76–81 (Eng. Abstr.) **(Bul)**

[Inhibition of the transport of citrate during ADP-ribosylation of inner membrane proteins of the mitochondria] Velikil NN, et al. **Biokhimiia** 1989 Aug; 54(8):1300–7 (Eng. Abstr.) **(Rus)**

[Comparative study of Candida lipolytica yeasts with various abilities to produce citrate] Finogenova TV, et al. **Mikrobiologiia** 1989 May-Jun;58(3):387–92 (Eng. Abstr.) **(Rus)**

[Preselection of Aspergillus niger strains for citric acid production] Benuzzi DA, et al. **Acta Cient Venez** 1989; 40(3):195–7 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Altered biodistribution of Ga-67 by intramuscular gold salts. Moult RG, et al. **Clin Nucl Med** 1989 Nov;14(11):831–3

Biokinetics of 237Pu citrate and nitrate in the rat: implications

for Pu studies in man. Talbot RJ, et al. **Health Phys** 1990 Aug;59(2):183–7

Determination of the lysosomal role in tumor accumulation of 67Ga by dual-tracer studies. Ando A, et al. **Int J Rad Appl Instrum [A]** 1989;40(6):521–4

Effects of iron-binding proteins on in vitro uptake of 67Ga-citrate by tumor cells. Anghileri LJ, et al. **Int J Rad Appl Instrum [B]** 1990;17(3):331–4

Magnesium bioavailability from magnesium citrate and magnesium oxide. Lindberg JS, et al. **J Am Coll Nutr** 1990 Feb;9(1):48–55

Transport of tri- and dicarboxylic acids across the intestinal brush border membrane of calves. Wolffram S, et al. **J Nutr** 1990 Jul;120(7):767–74

Absorption of water and solute from glucose-electrolyte solutions in the human jejunum: effect of citrate or betaine. Leiper JB, et al. **Scand J Gastroenterol** 1989 Nov; 24(9):1089–94

[239Pu metabolism after its intratracheal administration] Shvydko NS, et al. **Med Radiol (Mosk)** 1990 Jan;35(1):37–9 (Eng. Abstr.) **(Rus)**

[238Pu body distribution in dogs after intravenous administration and early complexon therapy] Sokhranich AL, et al. **Med Radiol (Mosk)** 1990 Jul;35(7):41–3 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Advantages of a new anticoagulant in routine hematology on the Coulter Counter S-Plus STKR analyzer. Lippi U, et al. **Am J Clin Pathol** 1990 Jun;93(6):760–4

Inhibition of basic calcium phosphate crystal-induced mitogenesis by phosphocitrate. Cheung HS, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):20–5

Aluminium perturbs oscillatory phosphoinositide-mediated calcium signalling in hormone-stimulated hepatocytes. Schöfl C, et al. **Biochem J** 1990 Jul 15;269(2):547–50

Substrate reduction properties of dinitrogenase activated in vitro are dependent upon the presence of homocitrate or its analogues during iron-molybdenum cofactor synthesis. Imperial J, et al. **Biochemistry** 1989 Sep 19;28(19):7796–9

Antitumor effects of rhodium (II) citrate in mice bearing Ehrlich tumors. Zyngier S, et al. **Braz J Med Biol Res** 1989;22(3):397–401

The interrelationship between the root surface and alveolar bone of the replanted avulsed tooth after etching. Yang ZP, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Nov; 44(5):298–303

Topical citrate inhibits the adherence of neutrophils to postcapillary venules. Pfister RR, et al. **Cornea** 1990 Jul; 9(3):238–45

Absorption and retention of aluminum from drinking water. 1. Effect of citric and ascorbic acids on aluminum tissue levels in rabbits. Fulton B, et al. **Fundam Appl Toxicol** 1990 May;14(4):788–96

EDTA-induced platelet aggregation can be avoided by a new anticoagulant also suitable for automated complete blood count. Lippi U, et al. **Haematologica** 1990 Jan–Feb; 75(1):38–41

Influence of organic acids on heat resistance characteristics of Talaromyces flavus ascospores. Beuchat LR. **Int J Food Microbiol** 1988 Mar;6(2):97–105

Effect of bismuth subcarbonate against Campylobacter pylori: do citrate ions improve antibacterial activity? Vogt K, et al. **Int J Med Microbiol** 1990 May;273(1):33–5

Influence of aluminum citrate and citric acid on mineral metabolism in wether sheep. Allen VG, et al. **J Anim Sci** 1990 Aug;68(8):2496–505

Effect of calcium citrate-malate on skeletal development in young, growing rats. Kochanowski BA. **J Nutr** 1990 Aug; 120(8):876–81

Site and mechanism of enhanced gastrointestinal absorption of aluminum by citrate. Froment DP, et al. **Kidney Int** 1989 Dec;36(6):978–84

Dietary sodium restriction: adverse effect on plasma lipids. Sharma AM, et al. **Klin Wochenschr** 1990 Jul 5;68(13):664–8

Effects of citrate on urinary calcium excretion. Borensztein P, et al. **Miner Electrolyte Metab** 1989;15(6):353–8

Monitoring phenytoin therapy using citric acid–stimulated saliva in infants and children. Lifshitz M, et al. **Ther Drug Monit** 1990 Jul;12(4):334–8

Blood collection in strong acidic citrate anticoagulant used in a study of dietary influence on basal tPA activity. Rånby M, et al. **Thromb Haemost** 1989 Nov 24;62(3):917–22

Inhibition of an anti-Pr1d cold agglutinin by citrate present in commercial red cell preservative solutions. Green ED, et al. **Transfusion** 1990 Mar–Apr;30(3):267–70

The in-vivo effect of sodium–potassium citrate on the crystal growth rate of calcium oxalate and other parameters in human urine. Achilles W, et al. **Urol Res** 1990;18(1):1–6

New approach to eliminate HLA class I antigens from platelet surface without cell damage: acid treatment at pH 3.0. Kurata Y, et al. **Vox Sang** 1989;57(3):199–204

[The effect of a supplement of citric acid on the bioavailability of zinc from corn germ] Pallauf J, et al. **Z Ernahrungswiss** 1990 Mar;29(1):27–38 (Eng. Abstr.) **(Ger)**

[Iron as an inducer of nitric oxide formation in the animal body] Vanin AF, et al. **Biokhimiia** 1989 Dec;54(12):1974–9 (Eng. Abstr.) **(Rus)**

[The effect of citrate and dihydroxyacetone on methanol oxidation in Hansenula polymorpha] Sibirnyi AA, et al. **Ukr Biokhim Zh** 1990 Jan–Feb;62(1):108–12 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

The effect of prophylactic use of famotidine, ranitidine, and sodium citrate in upper abdominal surgery. Suojaranta-Ylinen R, et al. **Agents Actions** 1990 Apr; 30(1–2):297–9

Treatment of acute esophageal food impaction with a combination of glucagon, effervescent agent, and water. Kaszar-Seibert DJ, et al. **AJR Am J Roentgenol** 1990 Mar; 154(3):533–4

Inhibitory effect of pyrophosphate, citrate, magnesium and chondroitin sulphate in calcium oxalate urolithiasis. Grases F, et al. **Br J Urol** 1989 Sep;64(3):235–7

Plaque inhibition by a combination of zinc citrate and sodium lauryl sulfate. Giertsen E, et al. **Caries Res** 1989; 23(4):278–83

Preventive effect of aluminium citrate on silicosis. Zou SQ, et al. **Chin Med J [Engl]** 1990 Feb;103(2):173–6

Alkali citrate for preventing recurrence of calcium oxalate stones. Hauser W, et al. **Eur Urol** 1990;17(3):248–51

Citrate therapy in argininosuccinate lyase deficiency. Iafolla AK, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):102–5

Biphasic calcium phosphate ceramic combined with fibrillar collagen with and without citric acid conditioning in the treatment of periodontal osseous defects. Nery EB, et al. **J Periodontol** 1990 Mar;61(3):166–72

Effect of magnesium citrate and magnesium oxide on the crystallization of calcium salts in urine: changes produced by food–magnesium interaction. Lindberg J, et al. **J Urol** 1990 Feb;143(2):248–51

Six-month study of the effect of a dentifrice containing zinc citrate and triclosan on plaque, gingival health, and calculus. Svatun B, et al. **Scand J Dent Res** 1990 Aug; 98(4):301–4

Prophylaxis of oxalate urolithiasis with alkaline citrates. Frang D, et al. **Ther Hung** 1990;38(2):64–70

The in-vivo effect of sodium–potassium citrate on the crystal growth rate of calcium oxalate and other parameters in human urine. Achilles W, et al. **Urol Res** 1990;18(1):1–6

Effects of different doses of alkaline citrate on urine composition and crystallization of calcium oxalate. Berg C, et al. **Urol Res** 1990;18(1):13–6

[Prevention of aspiration pneumonia in obstetrical anesthesia with the effervescent combination of cimetidine and sodium citrate] Ormezzano X, et al. **Ann Fr Anesth Reanim** 1990; 9(3):285–8 (Eng. Abstr.) **(Fre)**

[Medical management for the prevention of the recurrence of urolithiasis—with special recurrence to the patients who underwent percutaneous nephrolithotripsy (PNL) or extracorporeal shock wave lithotripsy (ESWL)] Yasukawa S. **Hinyokika Kiyo** 1989 Dec;35(12):2107–13 (Eng. Abstr.) **(Jpn)**

[Reduction of urinary oxalate excretion by administration of calcium and citrate] Ito H, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Oct;80(10):1417–21 (Eng. Abstr.) **(Jpn)**

[An autopsied case of type II citrullinemia—transient effectiveness with either citrate or benzoate to the consciousness disturbance] Ujihira N, et al. **Rinsho Shinkeigaku** 1989 Apr;29(4):436–41 (26 ref.) (Eng. Abstr.) **(Jpn)**

[The oxygen supply of the isolated rat heart during perfusion with a suspension of human erythrocytes prepared on the blood preservative citroglucophosphate] Iarochkin VS, et al. **Gematol Transfuziol** 1989 Dec;34(12):32–7 (Eng. Abstr.) **(Rus)**

TOXICITY

Citrate: a major factor in the toxicity of orally administered aluminum compounds. Molitoris BA, et al. **Kidney Int** 1989 Dec;36(6):949–53 (29 ref.)

URINE

Urinary citrate and oxalate in 42 diabetics. He XQ, et al. **Chin Med J [Engl]** 1989 Oct;102(10):809–10

Determination of citrate in urine by simple direct photometry [letter] Lewis BD. **Clin Chem** 1990 Mar;36(3):578

On the relation between citrate and calcium in normal and stone-former subjects. Conte A, et al. **Int Urol Nephrol** 1989;21(4):369–73

On the relation between citrate and calcium in normal and stone-former subjects. Conte A, et al. **Int Urol Nephrol** 1990;22(1):7–12

Simultaneous determination of citrate and D-isocitrate in urine by isocratic ion chromatography. Singh RP, et al. **J Chromatogr** 1989 Oct 27;495:239–44

[Analysis of urinary citrate and oxalate in 42 diabetics] He XQ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Aug; 28(8):473–5, 509–10 (Eng. Abstr.) **(Chi)**

CITRIC ACID CYCLE

The mechanism of succinate or fumarate transfer in the tricarboxylic acid cycle allows molecular rotation of the intermediate. Bernhard SA, et al. **Arch Biochem Biophys** 1990 Jan;276(1):191–8

Insulin release in pancreatic islets by a glycolytic and a Krebs cycle intermediate: contrasting patterns of glyceraldehyde phosphate and succinate. MacDonald MJ, et al. **Arch Biochem Biophys** 1990 May 15;279(1):104–8

Maximum activities of key enzymes of glycolysis, glutaminolysis, pentose phosphate pathway and tricarboxylic acid cycle in normal, neoplastic and suppressed cells. Board M, et al. **Biochem J** 1990 Jan 15; 265(2):503–9

An n.m.r. study of the tricarboxylic acid cycle [letter] [published erratum appears in Biochem J 1990 Feb 1;265(3);932] [comment] Katz J. **Biochem J** 1989 Nov 1; 263(3):997 Comment on: Biochem J 1989 Jan 15;257(2):425–9.

Compartmentation of acetyl CoA studied by analysis of tricarboxylic acid cycle acids and 3-hydroxybutyrate in bile of rats given [2,2,2-2H3]ethanol. Norsten C, et al. **Biochem J** 1990 Jan 15;265(2):569–74

Carbon flux through tricarboxylic acid cycle in rat renal tubules. Nissim I, et al. **Biochim Biophys Acta** 1990 Feb 26;1033(2):194–200

Pyruvate utilization of rabbit reticulocytes—a compartmental study. Holzhütter HG, et al. **Biomed Biochim Acta** 1990; 49(2–3):S208–11

Cerebral metabolism of [1,2-13C2]acetate as detected by in vivo and in vitro 13C NMR. Cerdan S, et al. **J Biol Chem** 1990 Aug 5;265(22):12916–26

Characterization of two cDNA clones for pyruvate dehydrogenase E1 beta subunit and its regulation in tricarboxylic acid cycle–deficient fibroblast. Huh TL, et al. **J Biol Chem** 1990 Aug 5;265(22):13320–6

Clustering of sequential enzymes in the glycolytic pathway and the citric acid cycle. Beeckmans S, et al. **J Cell Biochem** 1990 Aug;43(4):297–306

The flux from glucose to glutamate in the rat brain in vivo as determined by 1H-observed, 13C-edited NMR spectroscopy. Fitzpatrick SM, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):170–9

Tricarboxylic acid cycle enzymes of a pseudophyllid cestode Penetrocephalus ganapatii. Dhandayuthapani S, et al. **J Helminthol** 1990 Mar;64(1):51–3

Proton-decoupled, Overhauser-enhanced, spatially localized carbon-13 spectroscopy in humans. Bottomley PA, et al. **Magn Reson Med** 1989 Dec;12(3):348–63

[The effect of Krebs cycle intermediates on the size of the necrotic zone and on the course of early postocclusion arrhythmia in experimental myocardial infarct in rats] Sernov LN, et al. **Farmakol Toksikol** 1989 Nov-Dec; 52(6):47–9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Suppression of tricarboxylic acid cycle in Escherichia coli exposed to sub-MICs of aminoglycosides. Cavallero A, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):295–301

Glucose-mediated catabolite repression of the tricarboxylic acid cycle as an explanation for increased acetic acid production in suicidal Aeromonas strains. Namdari H, et al. **J Bacteriol** 1990 Aug;172(8):4721–4

Effect of methionine sulfoximine on pyruvate dehydrogenase, citric acid cycle enzymes and aminotransferases in the subcellular fractions isolated from rat cerebral cortex. Ratnakumari L, et al. **Neurosci Lett** 1990 Jan 22; 108(3):328–34

The early effects of valproic acid in low doses in liver metabolism. Culebras M, et al. **Rev Esp Fisiol** 1989 Dec; 45(4):327–30

[Effect of ethonium on the process of dehydrogenation of tricarboxylic acid cycle metabolites by Escherichia coli and Pseudomonas aeruginosa cultures] Gudz' OV. **Mikrobiol Zh** 1985 Mar–Apr;47(2):60–3 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Analysis of tricarboxylic acid cycle of the heart using 13C isotope isomers. Malloy CR, et al. **Am J Physiol** 1990 Sep; 259(3 Pt 2):H987–95

The intracellular site of action of insulin: the mitochondrial Krebs cycle. Mohan C, et al. **Curr Top Cell Regul** 1989; 30:105–42 (121 ref.)

Further evidence for direct interaction of pyruvate dehydrogenase multienzyme complex with citric acid cycle based on nonlinearity of hill plots in presence of C2 and C4 substrate analogues. Förster M, et al. **Int J Biochem** 1990;22(7):773–8

A 13C NMR study on fluxes into the Krebs cycle of rabbit renal proximal tubular cells. Jans AW, et al. **NMR Biomed** 1989 Apr;1(4):171–6

Effect of lipoic acid in a patient with defective activity of pyruvate dehydrogenase, 2-oxoglutarate dehydrogenase, and branched-chain keto acid dehydrogenase. Yoshida I, et al. **Pediatr Res** 1990 Jan;27(1):75–9

CITRININ see under **BENZOPYRANS**

CITROBACTER

Synthesis of a trisaccharide of the inner core region of Citrobacter PCM 187 lipopolysaccharide that contains L-glycero-alpha-D-manno-heptopyranosyl units. Boons GJ, et al. **Carbohydr Res** 1989 Oct 23;192:C1–4

Structure of the heptose-3-deoxyoctulosonic acid region of Citrobacter lipopolysaccharide core. Gamian A, et al. **Carbohydr Res** 1990 May 1;198(2):381–3

CLASSIFICATION

The biochemical differentiation between Salmonella and Citrobacter. van der Walt ML, et al. **Onderstepoort J Vet Res** 1989 Dec;56(4):263–9

CYTOLOGY

[Standardization of the determination of the fimbriae (adhesins) of Citrobacter] Karal'nik BV, et al. **Lab Delo** 1990;(2):46–9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Actinide and lanthanum toxicity towards a Citrobacter sp.: uptake of lanthanum and a strategy for the biological treatment of liquid wastes containing plutonium. Plummer EJ, et al. **Bull Environ Contam Toxicol** 1990 Feb; 44(2):173–80

Role of the outer membrane for quinolone resistance in enterobacteria. Dechène M, et al. **Chemotherapy** 1990; 36(1):13–23

[Transfer of resistance to the newer beta-lactam antibiotics in Czechoslovakia] Antal M, et al. **Cas Lek Cesk** 1990 Mar 23;129(12):366–8 (Eng. Abstr.) **(Slo)**

ENZYMOLOGY

Interaction of E1040 with cephalosporinase from Citrobacter freundii GN7391. Inoue E, et al. **Antimicrob Agents Chemother** 1989 Dec;33(12):2157–9

Formate dependent nitrate and nitrite reduction to ammonia by Citrobacter freundii and competition with denitrifying bacteria. Rehr B, et al. **Antonie Van Leeuwenhoek** 1989 Nov;56(4):311–21

Urethane-hydrolyzing enzyme from Citrobacter sp. Kobashi K, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1326–8

Role of lysine-67 in the active site of class C beta-lactamase from Citrobacter freundii GN346. Tsukamoto K, et al. **Eur J Biochem** 1990 Feb 22;188(1):15–22

Substitution of aspartic acid-217 of Citrobacter freundii cephalosporinase and properties of the mutant enzymes. Tsukamoto K, et al. **FEBS Lett** 1990 May 21;264(2):211–4

Broad spectrum beta-lactamases of Citrobacter diversus. Oliva B, et al. **J Antimicrob Chemother** 1990 Mar; 25(3):335–41

Extension of the substrate spectrum by an amino acid substitution at residue 219 in the Citrobacter freundii cephalosporinase. Tsukamoto K, et al. **J Bacteriol** 1990 Aug;172(8):4348–51

Do inert beta-lactamase inhibitors act as synergizers of beta-lactam antibiotics? Utility of boric and boronic acids. Amicosante G, et al. **J Chemother** 1989 Dec;1(6):394–8

The beta-lactamases of Citrobacter diversus and their hydrolysis kinetics for some structurally-related cephalosporins. Amicosante G, et al. **J Chemother** 1989 Dec;1(6):399–402

Conservation of organization in the specificity polypeptides of two families of type I restriction enzymes. Kannan P, et al. **J Mol Biol** 1989 Oct 5;209(3):335–44

Refined crystal structure of beta-lactamase from Citrobacter freundii indicates a mechanism for beta-lactam hydrolysis. Oefner C, et al. **Nature** 1990 Jan 18;343(6255):284–8

[TNT-degrading enzyme of Citrobacter freundii and its regulation by carbon and nitrogen source] Li WZ, et al. **Wei Sheng Wu Hsueh Pao** 1989 Apr;29(2):117–23 (Eng. Abstr.) **(Chi)**

[The characteristics of amino acid catabolism in bacteria of the genus Citrobacter] Artiukhina AI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):11–3 (Eng. Abstr.) **(Rus)**

GENETICS

Genetic properties of plasmids isolated from pathogenic strain of Citrobacter freundii. Morzejko E, et al. **Acta Microbiol Pol** 1989;38(2):159–70

Conjugational cotransfer of IncFI and IncI conjugative plasmids forming aggregate in a pathogenic Citrobacter freundii strain. Morzejko E, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1-2):7–11

Genotypic heterogeneity of strains of Citrobacter diversus expressing a 32-kilodalton outer membrane protein associated with neonatal meningitis. Li J, et al. **J Clin Microbiol** 1990 Aug;28(8):1760–5

Sequence motifs characteristic of DNA[cytosine-N4]methyltransferases: similarity to adenine and cytosine-C5 DNA-methylases. Klimasauskas S, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9823–32

[Transpon Tn5 mutagenesis in Citrobacter] Wang AQ, et al. **Wei Sheng Wu Hsueh Pao** 1990 Apr;30(2):112–6 (Eng. Abstr.) **(Chi)**

GROWTH & DEVELOPMENT

Isolation of a Citrobacter species able to grow on malonate under strictly anaerobic conditions. Janssen PH, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1037–42

ISOLATION & PURIFICATION

A conductance medium to distinguish between Salmonella and Citrobacter spp. Ogden ID. **Int J Food Microbiol** 1988 Dec 31;7(4):287–97

METABOLISM

Hydrogen production from glucose by Citrobacter freundii. Kumar GR, et al. **Indian J Exp Biol** 1989 Sep;27(9):824–5

[Microcin R51 and a plasmid determining its synthesis] Kurepina NE, et al. **Mol Gen Mikrobiol Virusol** 1990 May; (5):12–7 (Eng. Abstr.) **(Rus)**

CITROVORUM FACTOR see LEUCOVORIN

CITRULLINE

ANALOGS & DERIVATIVES

Potential antitumour agents. Synthesis, DNA binding studies and biological activity of 9-aminoacridinyl derivatives of citrulline and arginine. Rad-niknam M, et al. **Arzneimittelforschung** 1990 Mar;40(3):287–9

[Hyperornithinemia, hyperammonemia and homocitrullinuria due to a defect of mitochondrial membrane transport] Oyanagi K. **Tanpakushitsu Kakusan Koso** 1988 Apr; 33(5):843–6 **(Jpn)**

BIOSYNTHESIS

Effect of ornithine concentration on citrulline synthesis in mouse liver mitochondria. Inoue I, et al. **Biochem Med Metab Biol** 1990 Jun;43(3):193–200

The mechanism of Ca2+ stimulation of citrulline and N-acetylglutamate synthesis by mitochondria. Johnston JD, et al. **Biochim Biophys Acta** 1990 Jan 29;1033(1):85–90

L-citrulline production from L-arginine by macrophage nitric oxide synthase. The ureido oxygen derives from dioxygen. Kwon NS, et al. **J Biol Chem** 1990 Aug 15; 265(23):13442–5

BLOOD

Peritoneal dialysis in the treatment of metabolic crises caused by inherited disorders of organic and amino acid metabolism. Gortner L, et al. **Acta Paediatr Scand** 1989 Sep;78(5):706–11

Animal model of human disease. Citrullinemia (argininosuccinate synthetase deficiency). Harper PA, et al. **Am J Pathol** 1989 Dec;135(6):1213–5

Bovine citrullinaemia: a clinical, pathological, biochemical and genetic study. Healy PJ, et al. **Aust Vet J** 1990 Jul; 67(7):255–8

Citrullinemia: early diagnosis & successful management of an otherwise lethal disorder. Balsekar MV, et al. **Indian Pediatr** 1989 Jun;26(6):589–92

Heterogeneity of mutations in argininosuccinate synthetase causing human citrullinemia. Kobayashi K, et al. **J Biol Chem** 1990 Jul 5;265(19):11361–7

Molecular definition of bovine argininosuccinate synthetase deficiency. Dennis JA, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7947–51

[A case of argininosuccinate synthetase (ASS) deficiency diagnosed by the measurement of ASS with the liver biopsy specimen] Mori S, et al. **Nippon Naika Gakkai Zasshi** 1989 Sep;78(9):1339–43 **(Jpn)**

[Usefulness of continuous peritoneal dialysis (CPD) in the management of metabolic encephalopathy in adult type citrullinemia] Kitai K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2469–73 **(Jpn)**

[An autopsied case of type II citrullinemia—transient effectiveness with either citrate or benzoate to the consciousness disturbance] Ujihira N, et al. **Rinsho Shinkeigaku** 1989 Apr;29(4):436–41 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Citrullinemia] Saheki T, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):505–9 **(Jpn)**

METABOLISM

Endothelial cells metabolize NG-monomethyl-L-arginine to L-citrulline and subsequently to L-arginine. Hecker M, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1037–43

Detection of kinetically abnormal argininosuccinate synthase in neonatal citrullinemia by conversion of citrulline to arginine in intact fibroblasts. Ben-Yoseph Y, et al. **Clin Chim Acta** 1989 Aug 15;183(2):125–33

PHARMACOLOGY

Promoting effect of citrulline in hepatocarcinogenesis: possible mechanism in hypercitrullinemia. Nakayama M, et al. **Hepatology** 1990 May;11(5):819–23

CITRUS FRUITS

Laboratory studies of the dental properties of soft drinks. Grenby TH, et al. **Br J Nutr** 1989 Sep;62(2):451–64

Nutrient content and nutrition labeling of several processed Florida citrus juice products. Fellers PJ, et al. **J Am Diet Assoc** 1990 Aug;90(8):1079–84

[Pharmacological study on citrus fruits. I. Anti-allergic effect of fruit of Citrus unshiu Markovich (1)] Kubo M, et al. **Yakugaku Zasshi** 1989 Nov;109(11):835–42 (Eng. Abstr.) **(Jpn)**

ANALYSIS

[Pharmacognostic studies on the peel of Citrus reticulata Blanco cv. zhangshuensis and Citrus reticulata Blanco Var. kinokuni (Tanaka) H. H. Hu produced in Jiangxi] Fang CS, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct; 14(10):581–3, 637 (Eng. Abstr.) **(Chi)**

[A study on the quality of fruits of Citrus aurantium L. (zhishi and Zhiqiao) produced in Jiangxi] Zhang ZZ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Sep;14(9):520–2, 573 (Eng. Abstr.) **(Chi)**

[Studies on the preparation and evaluation of Kijitsu, the immature citrus fruits. III. Relation between diameter of Kijitsu and synephrine content] Hosoda K, et al. **Yakugaku Zasshi** 1990 Jan;110(1):82–4 (Eng. Abstr.) **(Jpn)**

[Studies on the preparation and evaluation of Kijitsu, the immature citrus fruits. II. Analysis of factors which affect the flavonoid contents] Hosoda K, et al. **Yakugaku Zasshi** 1989 Aug;109(8):560–3 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Induction of anti-orange antibodies in rabbits. Alonso A, et al. **Allergol Immunopathol (Madr)** 1989 Nov-Dec; 17(6):307–11

MICROBIOLOGY

A new species of Trichosporonoides isolated from sweetened orange/mango drink in Australia. Ramirez C. **Mycopathologia** 1989 Oct;108(1):25–30

[Isolation of imazalil and prochloraz resistant Penicillium variable strains from a commercial citrus warehouse] Díaz MA, et al. **Microbiologia** 1987 Oct;3(3):205–7 (Eng. Abstr.) **(Spa)**

POISONING

Gastroenteritis from an orange juice preparation. II. Field and laboratory investigation. Schmelzer LL, et al. **Arch Environ Health** 1967 Jul;15(1):78–82

Gastroenteritis from an orange juice preparation. I. Clinical and epidemiological aspects. Tabershaw IR, et al. **Arch Environ Health** 1967 Jul;15(1):72–7

Toxicology of selected pesticides, drugs, and chemicals. D-limonene, linalool, and crude citrus oil extracts. Hooser SB. **Vet Clin North Am Small Anim Pract** 1990 Mar; 20(2):383–5 (6 ref.)

CITY PLANNING

Housing for the homeless [letter] Lyons TS, et al. **Hosp Community Psychiatry** 1990 Apr;41(4):456

[Development of a city planning hygiene analysis and its application in the framework of an environmental-epidemiological study] Winkelmann H, et al. **Z Gesamte Hyg** 1990 Jul;36(7):387–9 (Eng. Abstr.) **(Ger)**

[Neighborhood areas for urban facilities] Sato H, et al. **Ann Physiol Anthropol** 1989 Apr;8(2):89–93 **(Jpn)**

STANDARDS

[Problems of determining sanitary standards and principles of the planning and development of residential areas] Dobrinskii AA, et al. **Gig Sanit** 1989 Dec;(12):24–6 **(Rus)**

CIVIL DEFENSE

Doctors' attitudes on civil defence and nuclear weapon issues. Hunter-Brown IH. **Med War** 1989 Oct-Dec;5(4):175–80

Conversation piece—the aeromedical doctor [interview by P.D. Welsby] Pearson RA. **Postgrad Med J** 1989 Dec; 65(770):957

HISTORY

Efficacy of bomb shelters: with lessons from the Hamburg firestorm. Lucas KA, et al. **South Med J** 1990 Jul; 83(7):812–20

ORGANIZATION & ADMINISTRATION

[The organization of protection and of the delivery of medical care for the population of the USA in catastrophes and other emergency conditions] Vorob'ev AI. **Voen Med Zh** 1990 Apr;(4):68–72 (11 ref.) **(Rus)**

CIVIL DISORDERS

Children and the state. Kandela P. **Br J Hosp Med** 1989 Dec;42(6):498

The orthopaedic consequences of civil disturbance in Northern Ireland. Barr RJ, et al. **J Bone Joint Surg [Br]** 1989 Nov;71(5):739–44

Hidden consequences of state violence: spinal cord injuries in Soweto, South Africa. Cock J. **Soc Sci Med** 1989; 29(10):1147–55

CIVIL RIGHTS

Amnesty International [editorial] Short R. **Br J Hosp Med** 1990 Jan;43(1):8

The consequences of official labels: a research note on rights lost by the mentally ill, mentally incompetent, and convicted felons. Burton VS Jr.

Community Ment Health J 1990 Jun;26(3):267–76
Smokers' civil rights [letter; comment] Coleman T. Hosp Community Psychiatry 1990 Feb;41(2):198–9 Comment on: Hosp Community Psychiatry 1989 May;40(5):525–7.
Begging as metaphor. Weissmann G. Hosp Pract [Off] 1990 May 15;25(5):123–4
The World Medical Association serves apartheid. Beck W. Int J Health Serv 1990;20(1):185–91
To breathe air that is free of tobacco smoke—a forgotten right [letter] Turakhia DP. J Assoc Physicians India 1990 Feb;38(2):190–1
Philip Morris and National Archives light-up Bill of Rights [news] Broder K, et al. J Natl Cancer Inst 1990 Jan 3; 82(1):8–9
The right of privacy protects the doctor–patient relationship [letter; comment] JAMA 1990 Jul 11;264(2):182–4 Comment on: JAMA 1990 Feb 9;263(6):858–61.
Academic freedom in South Africa. Benatar SR. Lancet 1990 Jun 30;335(8705):1576–8
Abused medical students: in US, and in AUS? [editorial] Willoughby JO. Med J Aust 1990 Jul 2;153(1):2
HIV testing [letter] Glatzer RL. South Med J 1990 Jul; 83(7):853
[Civil rights for patients with severe dementia (editorial)] Borberg S. Ugeskr Laeger 1989 Oct 9;151(41):2641 (Dan)
[Legal rights for the aged on admission to a psychiatric clinic or transfer to a psychiatric nursing home. Forms of admission, compulsory admission and incapacitation] Rasmussen AK, et al. Ugeskr Laeger 1989 Oct 9; 151(41):2642–3 (Eng. Abstr.) (Dan)
[Freedom in research and responsibilities of scientists] Mittelstrass J. Naturwissenschaften 1990 Apr;77(4):149–57 (Eng. Abstr.) (Ger)

HISTORY

[Medicine and the law: Hippocratic doctrine in late antiquity] Lanata G. Sudhoffs Arch Beih 1989;(27):347–54 (Fre)
[Karl Heinrich Ulrichs. His life and work] Kennedy H. Beitr Sexualforsch 1990;65:1–280 (Ger)

LEGISLATION & JURISPRUDENCE

Webster, vagueness and the First Amendment. Bopp J Jr, et al. Am J Law Med 1989;15(2–3):217–22
Abortion counseling and the First Amendment: open questions after Webster. Pine RN. Am J Law Med 1989; 15(2–3):189–97
Judge Young and the legal status of the human embryo. Healey JM. Conn Med 1990 Mar;54(3):165
New statutes may increase workforce concerns. Erf S. Hospitals 1990 Jul 5;64(13):FB58, FB60
No disease should be placed on a pedestal. Annis ER. J Fla Med Assoc 1989 Mar;76(3):341
Control and compensation: laws governing extracorporeal generative materials. Andrews LB. J Med Philos 1989 Oct; 14(5):541–60
Donum Vitae: civil law and moral values. Byk C. J Med Philos 1989 Oct;14(5):561–73
Prisoner who opposes AIDS testing loses suit. J Miss State Med Assoc 1990 Apr;31(4):134
Section 47: Bradford 1925—United Kingdom 1988. Gray JA. J Public Health Med 1990 Feb;12(1):28–30
Section 47 and its use with mentally disordered people. Wolfson P, et al. J Public Health Med 1990 Feb;12(1):9–14
The right of privacy protects the doctor–patient relationship [see comments] Annas GJ, et al. JAMA 1990 Feb 9; 263(6):858–61 Comment in: JAMA 1990 Jul 11;264(2):182–4.
1989 news from Washington. Croser MD. Ment Retard 1989 Dec;27(6):iii–viii
Disabled clients, constituencies, and counsel: representing persons with developmental disabilities. Herr SS. Milbank Q 1989;67 Suppl 2 Pt 2:352–79
Politics and policy in the history of the disability rights movement. Scotch RK. Milbank Q 1989;67 Suppl 2 Pt 2:380–400
AIDS and the rights of the individual: toward a more sophisticated understanding of discrimination. Stoddard TB, et al. Milbank Q 1990;68 Suppl 1:143–74
What is the price for personal freedom? [editorial] Smith JS Jr. Pa Med 1990 Apr;93(4):8–9
[Psychiatric aspects of the new codification of civil law in Poland] Rutkowski R, et al. Psychiatr Pol 1989 May–Jun; 23(3):224–7 (13 ref.) (Pol)

CLADOSPORIUM see under **HYPHOMYCETES**

CLAIRVOYANCE see **PARAPSYCHOLOGY**

CLAMS

Lethal paralytic shellfish poisoning in Guatemala. Rodrigue DC, et al. Am J Trop Med Hyg 1990 Mar;42(3):267–71
Rickettsiales-like infection in the gills of Tridacna crocea from the Great Barrier Reef. Goggin CL, et al. J Invertebr Pathol 1990 Jul;56(1):135–8
Polarity and velocity of sliding filaments: control of direction by actin and of speed by myosin [published erratum appears in Science 1990 Aug 31;249(4972):973] Sellers JR, et al. Science 1990 Jul 27;249(4967):406–8

ANALYSIS

Amino acid sequence of the dimeric hemoglobin (Hb I) from the deep-sea cold-seep clam Calyptogena soyoae and the phylogenetic relationship with other molluscan globins. Suzuki T, et al. Biochim Biophys Acta 1989 Dec 21; 999(3):254–9
Assessing the effectiveness of depuration of polluted clams and mussels using the Microtox bioassay. Lau-Wong MM. Bull Environ Contam Toxicol 1990 Jun;44(6):876–83
Immunocytochemical localization of a calcium-binding phosphoprotein in hemocytes of heterodont bivalves. Marsh ME. J Exp Zool 1990 Mar;253(3):280–6

CYTOLOGY

Differentiation of the vitelline coat and the polarized site of sperm entrance in the egg of Unio elongatulus (Mollusca, Bivalvia). Focarelli R, et al. J Exp Zool 1990 Apr; 254(1):88–96

EMBRYOLOGY

The oocyte lamin persists as a single major component of the nuclear lamina during embryonic development of the surf clam. Dessev G, et al. Int J Dev Biol 1990 Jun; 34(2):267–74

GENETICS

Interrelationships of heterozygosity, growth rate and heterozygote deficiencies in the coot clam, Mulinia lateralis. Gaffney PM, et al. Genetics 1990 Mar; 124(3):687–99

METABOLISM

Predicting bioaccumulation potential: a test of a fugacity-based model. Ferraro SP, et al. Arch Environ Contam Toxicol 1990 May–Jun;19(3):386–94
Hemoglobins of the Lucina pectinata/bacteria symbiosis. I. Molecular properties, kinetics and equilibria of reactions with ligands. Kraus DW, et al. J Biol Chem 1990 Sep 25; 265(27):16043–53
Hemoglobins of the Lucina pectinata/bacteria symbiosis. II. An electron paramagnetic resonance and optical spectral study of the ferric proteins. Kraus DW, et al. J Biol Chem 1990 Sep 25;265(27):16054–9

MICROBIOLOGY

Pseudomonas putrefaciens bacteremia associated with shellfish contact. Heller HM, et al. Am J Med 1990 Jan; 88(1):85–6

PARASITOLOGY

Fine structure of zoosporulation in Perkinsus atlanticus (Apicomplexa: Perkinsea). Azevedo C, et al. Parasitology 1990 Jun;100 Pt 3:351–8

PHYSIOLOGY

Clam burrowing bioassay for estuarine sediment. Phelps HL. Bull Environ Contam Toxicol 1989 Dec;43(6):838–45
Elastic anisotropy of bivalve hinge-ligament. Ono K, et al. J Biomech 1990;23(4):307–12
Number and types of hemocytes in Sunetta scripta and Villorita cyprinoides var. cochinensis (Bivalvia), and leukocytosis subsequent to bacterial challenge. Suresh K, et al. J Invertebr Pathol 1990 May;55(3):312–8

CLASS I ANTIGENS see **HISTOCOMPATIBILITY ANTIGENS CLASS I**

CLASS II ANTIGENS see **HISTOCOMPATIBILITY ANTIGENS CLASS II**

CLASS I GENES see **GENES, MHC CLASS I**

CLASS II GENES see **GENES, IMMUNE RESPONSE**

CLASS II HUMAN ANTIGENS see **HLA-D ANTIGENS**

CLASSIFICATION

Revision of the phenomena of concern for psychiatric mental health nursing. O'Toole AW, et al. Arch Psychiatr Nurs 1989 Oct;3(5):288–99
Clinical application of human responses classification system: child example. West PP, et al. Arch Psychiatr Nurs 1989 Oct;3(5):300–4
Statistical evaluation of attributes in Adlerian life style forms. O'Phelan ML. J Individ Psychol 1977 Nov;33(2):203–12
The classification of patient outcomes. Lang NM, et al. J Prof Nurs 1990 May–Jun;6(3):158–63
Diagnosis-related groups: a twentieth-century nosology. Gupta GG. Pharos 1990 Spring;53(2):12–7
An exercise in rational taxonomy. Ho MW. Riv Biol 1989; 82(3–4):338–40, 412–3 (Eng, Ita)
[Utilization of the International Classification of Primary Care, a new family practice classification] De Maeseneer J. Arch Belg 1989;47(1–4):46–9 (Eng. Abstr.) (Dut)

METHODS

Evolutionary and classical concepts of homology: a reply to Aboitiz [comment] Wilkinson M. Acta Biotheor (Leiden) 1988;37(3–4):315–9 Comment on: Acta Biotheor (Leiden) 1988;37(1):27–9.
The changing pattern of coronary heart disease in Australia. Heathcote CR, et al. Int J Epidemiol 1989 Dec;18(4):802–7
Syndromology: an updated conceptual overview. II. Syndrome classifications. Cohen MM Jr. Int J Oral Maxillofac Surg 1989 Aug;18(4):223–8
Evaluation of an iris color classification system. The Eye Disorders Case-Control Study Group. Seddon JM, et al. Invest Ophthalmol Vis Sci 1990 Aug;31(8):1592–8
Time for change in taxonomy [letter] Bremer K, et al. Nature 1990 Jan 18;343(6255):202
A survey of models for repeated ordered categorical response data. Agresti A. Stat Med 1989 Oct;8(10):1209–24
Using association models to analyse agreement data: two examples. Becker MP. Stat Med 1989 Oct;8(10):1199–207

CLASTOGENS see **MUTAGENS**

CLATHRIN

Clathrin and associated assembly and disassembly proteins. Keen JH. Annu Rev Biochem 1990;59:415–38 (141 ref.)

ANALYSIS

A 220 kDa polypeptide, immunolocalized to epithelial tight junctions, is associated with brain clathrin preparations. Enrich C, et al. Eur J Cell Biol 1989 Dec;50(2):304–12
Auxilin, a newly identified clathrin-associated protein in coated vesicles from bovine brain. Ahle S, et al. J Cell Biol 1990 Jul;111(1):19–29
Neuron-specific expression of high-molecular-weight clathrin light chain. Wong DH, et al. J Neurosci 1990 Sep; 10(9):3025–31

BIOSYNTHESIS

Insulin stimulates the assembly of cytosolic clathrin onto adipocyte plasma membranes. Corvera S. J Biol Chem 1990 Feb 15;265(5):2413–6

GENETICS

Genetic instability of clathrin-deficient strains of Saccharomyces cerevisiae. Lemmon SK, et al. Genetics 1990 Jan;124(1):27–38
Sequence of the rat alpha c large chain of the clathrin associated protein complex AP-2. Tucker KL, et al. Nucleic Acids Res 1990 Sep 11;18(17):5306

IMMUNOLOGY

Antibodies to clathrin inhibit endocytosis but not recycling to the trans Golgi network in vitro. Draper RK, et al. Science 1990 Jun 22;248(4962):1539–41

METABOLISM

Determination of the regions of the clathrin molecule inducing membrane fusion. Maezawa S, et al. Biochemistry 1990 Feb 20;29(7):1813–7
Incorporation of spin-labeled fatty acids into bovine brain clathrin coated vesicles. Privat JP, et al. Biochim Biophys Acta 1990 Apr 13;1023(2):274–82
Cytomatrix protein residence times differ significantly between the tract and the terminal segments of optic axons. Paggi P, et al. Brain Res 1990 May 28;517(1–2):143–50
Uncoating protein (hsc70) binds a conformationally labile domain of clathrin light chain LCa to stimulate ATP hydrolysis. DeLuca-Flaherty C, et al. Cell 1990 Sep 7; 62(5):875–87
Clathrin-coated membrane: a distinct membrane domain in acetylcholine receptor clusters of rat myotubes. Pumplin DW, et al. Cell Motil Cytoskeleton 1990;15(2):121–34
Clathrin-coated vesicles. Morris SA, et al. Curr Opin Cell Biol 1989 Aug;1(4):684–90 (15 ref.)
Characterization of the coated vesicle uncoating ATPase: tissue distribution, association with and activity on intact coated vesicles. Paddenberg R, et al. Eur J Cell Biol 1990 Jun;52(1):60–6
Identification of a clathrin binding subunit in the HA2 adaptor protein complex. Ahle S, et al. J Biol Chem 1989 Nov 25;264(33):20089–93
Enhanced phosphorylation of a coated vesicle polypeptide in response to insulin stimulation of rat adipocytes. Corvera S, et al. J Biol Chem 1990 Sep 15;265(26):15963–9
Dissociation of clathrin from coated vesicles by the uncoating ATPase. Greene LE, et al. J Biol Chem 1990 Apr 25; 265(12):6682–7
Clathrin-coated pits contain an integral membrane protein that binds the AP-2 subunit with high affinity. Mahaffey DT, et al. J Biol Chem 1990 Sep 25;265(27):16514–20
Analysis of clathrin light chain-heavy chain interactions using truncated mutants of rat liver light chain LCB3. Scarmato P, et al. J Biol Chem 1990 Mar 5;265(7):3661–8
Trimeric binding of the 70-kD uncoating ATPase to the vertices of clathrin triskelia: a candidate intermediate in the vesicle uncoating reaction. Heuser J, et al. J Cell Biol 1989 Oct;109(4 Pt 1):1457–66
Towards an in vitro system for studying clathrin-coated pit function. Moore MS, et al. J Cell Sci Suppl 1989;11:179–86
Novel regulatory role of phosphorylated clathrin light chain beta in bovine brain coated vesicles. Hanson VG, et al.

J Neurochem 1990 Jan;54(1):46–50
Evidence for clathrin mobilization during directed phagocytosis of Shigella flexneri by HEp2 cells. Clerc PL, et al. Microb Pathog 1989 Nov;7(5):329–36

PHYSIOLOGY

The ways of endocytosis. van Deurs B, et al. Int Rev Cytol 1989;117:131–77 (285 ref.)
Genetic analysis of clathrin function in yeast. Payne GS. J Membr Biol 1990 Jun;116(2):93–105 (83 ref.)
[Clathrin: its structure and role in intracellular transport] Yoshimura T, et al. Tanpakushitsu Kakusan Koso 1989 Oct; 34(13):1815–25 (110 ref.) (Jpn)

CLAUSTROPHOBIA see PHOBIC DISORDERS

CLAUSTRUM see BASAL GANGLIA

CLAVICEPS

Induction of heat stress in beef cattle by feeding the ergots of Claviceps purpurea. Ross AD, et al. Aust Vet J 1989 Aug;66(8):247–9

CLAVICLE

Congenital shortness of the costocoracoid ligament. Bamforth JS, et al. Am J Med Genet 1989 Aug;33(4):444–6
Haematogenous clavicular osteomyelitis caused by Bacteroides fragilis [letter; comment] Studemeister AE, et al. Ann Rheum Dis 1990 Aug;49(8):653 Comment on: Ann Rheum Dis 1990 Aug;49(8):598–602.
Condensing osteitis of the clavicle: does it exist? Jones MW, et al. J Bone Joint Surg [Br] 1990 May;72(3):464–7
Central mucoepidermoid carcinoma of the jaw with distant metastasis: a case report and review of the literature. Lebsack JP, et al. J Oral Maxillofac Surg 1990 May; 48(5):518–22 (31 ref.)
Bilateral tuberculous osteomyelitis of the clavicle. Tucker GS. Orthopedics 1990 Jul;13(7):767–8
Giant cell tumour occurring in the clavicle: a report of two cases. Friedman B, et al. Respir Med 1989 Mar;83(2):145–8 (17 ref.)
[Osteoradionecrosis of the clavicle after treatment of cancer of the upper respiratory and digestive tract] Pillon P, et al. Rev Rhum Mal Osteoartic 1990 Apr 25;57(4):341–5 (17 ref.) (Fre)

ABNORMALITIES

Bilateral congenital pseudarthrosis of the clavicle. Russo MT, et al. Arch Orthop Trauma Surg 1990;109(3):177–8
Structural abnormality of the clavicle associated with Sprengel's deformity. A case report. Orrell KG, et al. Clin Orthop 1990 Sep;(258):157–9
[A new case of Goltz's syndrome] Malfait Y, et al. Ann Dermatol Venereol 1989;116(10):715–8 (22 ref.) (Fre)

BLOOD SUPPLY

The arterial supply of the clavicle. Knudsen FW, et al. Surg Radiol Anat 1989;11(3):211–4

EMBRYOLOGY

The early development and ossification of the human clavicle—an embryologic study. Ogata S, et al. Acta Orthop Scand 1990 Aug;61(4):330–4

INJURIES

Clavicular fractures in neonates. Joseph PR, et al. Am J Dis Child 1990 Feb;144(2):165–7 (13 ref.)
Acromioclavicular dislocation with adjacent clavicular fracture in a horseback rider. A case report. Lancourt JE. Am J Sports Med 1990 May–Jun;18(3):321–2
Conservative management of a displaced medial clavicular physeal injury in an adolescent athlete. A case report and literature review. Zaslav KR, et al. Am J Sports Med 1989 Nov–Dec;17(6):833–6 (16 ref.)
F-18 fluorodeoxyglucose: its potential in differentiating between stress fracture and neoplasia. Paul R, et al. Clin Nucl Med 1989 Dec;14(12):906–8
Clavicle fractures in the newborn. Oppenheim WL, et al. Clin Orthop 1990 Jan;(250):176–80
Atlanto-axial rotatory fixation and fracture of the clavicle. An association and a classification [published erratum appears in J Bone Joint Surg [Br] 1990 May;72(3):545] Goddard NJ, et al. J Bone Joint Surg [Br] 1990 Jan; 72(1):72–5
Type II distal clavicle fractures: a retrospective review of surgical treatment. Kona J, et al. J Orthop Trauma 1990; 4(2):115–20
Ipsilateral sternoclavicular dislocation and clavicle fracture. Thomas CB Jr, et al. J Orthop Trauma 1989;3(4):355–7
The sternoclavicular joint in trauma: retrosternal dislocation versus epiphyseal fracture. Leighton D, et al. Pediatr Radiol 1989;20(1–2):126–7
[Osteosynthesis of the clavicle using an external fixator] Schuind F, et al. Acta Orthop Belg 1989;55(2):191–6 (Eng. Abstr.) (Fre)
[Küntscher's open intramedullary nailing of the clavicle. An alternative in the treatment of an old clavicular fracture] Niemeier U, et al. Chirurg 1990 Jun;61(6):464–6 (Ger)
[Hematogenous osteomyelitis of the right clavicle and right femur head following subclavian vein puncture and insertion of an indwelling catheter] Albrecht G. Unfallchirurgie 1989 Dec;15(6):306–8 (Eng. Abstr.) (Ger)
[Reposition and external immobilization in fractures of the clavicle, humerus and malleoli] Gaidukov VI. Ortop Travmatol Protez 1990 Apr;(4):38–9 (Rus)

PATHOLOGY

Post-traumatic osteolysis of the clavicle: MR features. Erickson SJ, et al. J Comput Assist Tomogr 1990 Sep–Oct; 14(5):835–7
Case report 623. Osteitis condensans of the left clavicle (OCC). Abdelwahab IF, et al. Skeletal Radiol 1990; 19(5):387–9

RADIOGRAPHY

Musculoskeletal case of the day. Gorham syndrome of the right clavicle and scapula. Glass-Royal M, et al. AJR Am J Roentgenol 1990 Jun;154(6):1335–6
Coracoclavicular and coracoacromial ligament calcification and ossification. Chen YM, et al. Skeletal Radiol 1990; 19(4):263–6
[Condensing osteitis of the middle third of the clavicle] Baciu CC, et al. Rev Chir [Chir] 1989 Sep–Oct;38(5):381–6 (8 ref.) (Eng. Abstr.) (Rum)

SURGERY

The influence of distal clavicle resection and rotator cuff repair on the effectiveness of anterior acromioplasty. Daluga DJ, et al. Clin Orthop 1989 Oct;(247):117–23
[A rare complication of metallo-osteosynthesis of the clavicle] Khvorostov ED, et al. Klin Khir 1989;(12):47–8 (Rus)

CLAVULANIC ACIDS

ADMINISTRATION & DOSAGE

An investigation into the effect of traumatically produced cerebrospinal fluid fistulae on the passage of Augmentin across the blood–brain barrier. Lyons AJ. Br J Oral Maxillofac Surg 1990 Feb;28(1):8–11
Twice-daily antibiotics in the treatment of acute otitis media: trimethoprim–sulfamethoxazole versus amoxicillin–clavulanate [see comments] Feldman W, et al. Can Med Assoc J 1990 Jan 15;142(2):115–8 Comment in: Can Med Assoc J 1990 May 1;142(9):924–5.
Single dose and conventional treatment for acute bacterial and non-bacterial dysuria and frequency in general practice. Cooper J, et al. Infection 1990 Mar–Apr; 18(2):65–9
Clavulanate/beta-lactam antibiotics: further experience. Proceedings of the Second Biennial Conference on Infectious Diseases and Malignancies. Montreux, 6–8 March 1989. J Antimicrob Chemother 1989 Nov;24 Suppl B:1–226
Ticarcillin/clavulanate. An alternative to combination antibiotic therapy for treating soft tissue pelvic infections in women. Faro S. J Reprod Med 1990 Mar;35(3 Suppl):353–8 (31 ref.)
Ticarcillin/clavulanate in the treatment of pelvic infections. Lucas MJ, et al. J Reprod Med 1990 Mar;35(3 Suppl):343–7
Increase in the activity of third-generation cephalosporins in combination with clavulanic acid and Sulbactam against Bacteroides fragilis. Martín MA, et al. Med Lab Sci 1990 Jul;47(3):163–7
[How I do it. Perioperative preventive use of antibiotics in tumor surgery of the head and neck] Luckhaupt H. Laryngorhinootologie 1989 Oct;68(10):582 (Ger)

ADVERSE EFFECTS

Hepatitis and augmentin [letter] Reddy KR, et al. Dig Dis Sci 1990 Aug;35(8):1045–6
Cholestatic hepatitis due to antibacterial combination of amoxicillin and clavulanic acid (augmentin). Stricker BH, et al. Dig Dis Sci 1989 Oct;34(10):1576–80
Cholestatic hepatitis due to an amoxycillin/clavulanic acid preparation. Verhamme M, et al. J Hepatol 1989 Sep; 9(2):260–4
[A case of acute hemorrhagic colitis after oral ingestion of Augmentin (letter)] Klotz F, et al. Ann Med Interne (Paris) 1990;141(3):276 (Fre)
[Hepatic cholestasis probably due to the combination of amoxicillin and clavulanic acid (letter)] Pelletier G, et al. Gastroenterol Clin Biol 1990;14(6–7):601 (Fre)
[Erythema multiforme, aplasia, cholestatic hepatitis during treatment with Augmentin (amoxicillin + clavulanic acid)] Escallier F, et al. Rev Med Interne 1990 Jan–Feb;11(1):73–5 (Fre)

ANALYSIS

Determination of clavulanic acid by a sensitive HPLC method. Low AS, et al. J Antimicrob Chemother 1989 Nov; 24 Suppl B:83–6

CEREBROSPINAL FLUID

Cerebrospinal fluid penetration after single or multiple dosage with ticarcillin/clavulanate. Franz P, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:107–10

METABOLISM

In vitro activity of amoxycillin plus clavulanic acid and ticarcillin plus clavulanic acid compared with that of other antibiotics against anaerobic bacteria. Pierard D, et al. Acta Clin Belg 1989;44(4):228–36
Antibiotic persistence and tolerance in the lactating sheep following a course of intramammary therapy. Buswell JF, et al. Br Vet J 1989 Nov–Dec;145(6):552–7
Inactivation of amoxycillin, clavulanate and the combination by faecal preparations from volunteers [letter] Welling GW, et al. J Antimicrob Chemother 1990 Feb;25(2):301–2
In-vitro sensitivity of amoxicillin/clavulanic acid (Augmentin) to isolated beta-lactamases and in-vitro antibacterial activity. Esposito S, et al. J Chemother 1990 Jun;2(3):167–70

PHARMACOKINETICS

Pharmacokinetics of ticarcillin/clavulanate in severely burned patients. Adam D, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:121–9
Penetration into lung tissue after intravenous administration of amoxycillin/clavulanate. Cox AL, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:87–91
The pharmacokinetics of ticarcillin/clavulanate acid in neonates. Fricke G, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:111–20
Pharmacokinetics of intravenous amoxycillin and potassium clavulanate in seriously ill children. Jones AE, et al. J Antimicrob Chemother 1990 Feb;25(2):269–74
Penetration of ticarcillin/clavulanate into cartilage. Meier H, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:101–5
Penetration of amoxycillin/clavulanate into human bone. Weismeier K, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:93–100
Pharmacokinetics and tissue distribution of amoxicillin plus clavulanic acid after oral administration in man. Fraschini F, et al. J Chemother 1990 Jun;2(3):171–7
Oral bioavailability of ampicillin and amoxycillin alone and bound in fixed proportions to sulbactam and clavulanic acid. Desager JP, et al. J Int Med Res 1989 Nov–Dec; 17(6):532–8
Antibiotic persistence and tolerance in the lactating goat following intramammary therapy. Buswell JF, et al. Vet Rec 1989 Sep 9;125(11):301–3
[Pharmacokinetics of betabactyl in the field of gynecology] Kobyletzki Dv, et al. Arch Gynecol Obstet 1989; 245(1–4):452–6 (Ger)

PHARMACOLOGY

Comparative in vitro activities of piperacillin–tazobactam and ticarcillin–clavulanate. Fass RJ, et al. Antimicrob Agents Chemother 1989 Aug;33(8):1268–74
Comparative in vitro and in vivo activities of piperacillin combined with the beta-lactamase inhibitors tazobactam, clavulanic acid, and sulbactam. Kuck NA, et al. Antimicrob Agents Chemother 1989 Nov;33(11):1964–9
Beta-lactamase production in members of the family Enterobacteriaceae and resistance to beta-lactam–enzyme inhibitor combinations. Thomson KS, et al. Antimicrob Agents Chemother 1990 Apr;34(4):622–7
Interaction of beta-lactamase inhibitors with various beta-lactamases. Cullmann W. Chemotherapy 1990; 36(3):200–8
Activity of ticarcillin/clavulanate and piperacillin/tazobactam (YTR 830; CL-298,741) against clinical isolates and against mutants derepressed for class I beta-lactamase. Knapp CC, et al. Diagn Microbiol Infect Dis 1989 Nov–Dec;12(6):511–5
Beta-lactam susceptibility of coagulase-negative staphylococci causing catheter sepsis in pediatric patients. Marcon MJ, et al. Diagn Microbiol Infect Dis 1990 Jan–Feb; 13(1):9–15
Amoxicillin/clavulanic acid. An update of its antibacterial activity, pharmacokinetic properties and therapeutic use. Todd PA, et al. Drugs 1990 Feb;39(2):264–307 (378 ref.)
Interactions of tazobactam and clavulanate with inducibly- and constitutively-expressed Class I beta-lactamases. Akova M, et al. J Antimicrob Chemother 1990 Feb; 25(2):199–208
The activity of amoxycillin/clavulanic acid against Pseudomonas pseudomallei. Dance DA, et al. J Antimicrob Chemother 1989 Dec;24(6):1012–4
Activity of clavulanate-potentiated penicillins against methicillin-resistant Staphylococcus aureus. Graninger W, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:49–54
Clavulanate and beta-lactamase induction. Livermore DM, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:23–33
Antimicrobial activity of cefoperazone with clavulanic acid or sulbactam against Enterobacteriaceae [letter] Nagy E, et al. J Antimicrob Chemother 1990 Apr;25(4):701–3
Impact of ticarcillin/clavulanate on the intestinal microflora. Nord CE, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:221–6
Activity of amoxycillin/clavulanate against beta-lactamase-producing Escherichia coli and Klebsiella spp. Roy C, et al. J Antimicrob Chemother 1989 Nov;24 Suppl B:41–7
The susceptibility to amoxycillin/clavulanate of Enterobacteriaceae with plasmid-mediated ampicillin

resistance: a twelve-year study of strains in one Spanish hospital. Rubio MC, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:35-40

Susceptibility testing recommendations for ticarcillin/clavulanic acid in the Stokes' disc diffusion test [letter; comment] Sutherland R. **J Antimicrob Chemother** 1989 Sep;24(3):463-4 Comment on: J Antimicrob Chemother 1989 Feb;23(2):285-7.

Efficacy of clavulanate-potentiated antibiotics against Bacteroides species and artificially associated cultures of aerobes and anaerobes. Werner H, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:55-61

Kinetics of antimicrobial activity of amoxicillin/clavulanic acid and metronidazole against beta-lactamase-producing Bacteroides fragilis group. García-Rodríguez JA, et al. **J Chemother** 1990 Feb;2(1):11-6

Reassessment of susceptibility test interpretive criteria for ticarcillin and ticarcillin-clavulanic acid [see comments] Fuchs PC, et al. **J Clin Microbiol** 1989 Nov;27(11):2475-81 Comment in: J Clin Microbiol 1990 Apr;28(4):830-1.

Relevant breakpoints for ticarcillin-clavulanic acid should be set primarily with data from ticarcillin-resistant strains [letter; comment] Sanders CC, et al. **J Clin Microbiol** 1990 Apr;28(4):830-1 Comment on: J Clin Microbiol 1989 Nov;27(11):2475-81.

In vitro anaerobic data on ticarcillin/clavulanate. A review of an ongoing survey. Sanders CV Jr, et al. **J Reprod Med** 1990 Mar;35(3 Suppl):313-6

Development of beta-lactamase inhibitors. Sutherland R. **J Reprod Med** 1990 Mar;35(3 Suppl):307-12

Transferable cephalosporin resistance not inhibited by clavulanate in Escherichia coli [letter] Woodford N, et al. **Lancet** 1990 Jul 28;336(8709):253

THERAPEUTIC USE

Influence of clavulanic acid on the activity of amoxicillin against an experimental Streptococcus pneumoniae-Staphylococcus aureus mixed respiratory infection. Smith GM, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):210-4

A comparative double blind study of amoxycillin/clavulanate vs placebo in the prevention of infection after animal bites. Brakenbury PH, et al. **Arch Emerg Med** 1989 Dec; 6(4):251-6

Effectiveness of two therapeutic antibiotic regimens in the treatment of serious post-operative infections. Askew C, et al. **Br J Clin Pract** 1989 Dec;43(12):438-42

Ticarcillin/clavulanic acid combination. Treatment of bacterial infections in hospitalized children. Kristjansson K, et al. **Clin Pediatr (Phila)** 1989 Nov;28(11):521-4

Comparison of oral erythromycin ethylsuccinate and clavulanate-potentiated amoxicillin in the treatment of acute respiratory tract infections. Shanks N, et al. **Clin Ther** 1989 Nov-Dec;11(6):812-9

An open, comparative evaluation of amoxycillin and amoxycillin plus clavulanic acid ('Augmentin') in the treatment of bacterial pneumonia in children. Jibril HB, et al. **Curr Med Res Opin** 1989;11(9):585-92

Amoxicillin-clavulanic acid therapy of spontaneous bacterial peritonitis: a prospective study of twenty-seven cases in cirrhotic patients. Grange JD, et al. **Hepatology** 1990 Mar; 11(3):360-4

Medical dissolution of feline struvite urocystoliths. Osborne CA, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1053-63

Ciprofloxacin versus amoxycillin/clavulanic acid in the treatment of urinary tract infections in general practice. Abbas AM, et al. **J Antimicrob Chemother** 1989 Aug; 24(2):235-9

Treatment of patients with acute recurrent tonsillitis due to group A beta-haemolytic streptococci: a prospective randomized study comparing penicillin and amoxycillin/clavulanate potassium [see comments] Brook I. **J Antimicrob Chemother** 1989 Aug;24(2):227-33 Comment in: J Antimicrob Chemother 1990 Mar;25(3):474-5.

Amoxycillin/clavulanate prophylaxis for extracorporeal shock wave lithotripsy--a comparative study. Claes H, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:217-20

Ticarcillin/clavulanate in severe infections in patients with varying renal function. Dalet F, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:131-9

The prophylactic activity of amoxycillin/clavulanate and cefoxitin in vascular surgery--a randomized clinical study. Dieterich HJ, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:209-11

Comparison of the safety and efficacy of parenteral ticarcillin/clavulanate and clindamycin/gentamicin in serious intra-abdominal infections. Fink MP, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:147-56

Urinary tract infections with tissue penetration in children: cefotaxime compared with amoxycillin/clavulanate. Fischbach M, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:177-83

Prophylaxis in gynaecological surgery: a prospective randomized comparison between single dose prophylaxis with amoxycillin/clavulanate and the combination of cefuroxime and metronidazole. Friese S, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:213-6

A randomized trial to compare amoxycillin/clavulanate with metronidazole plus gentamicin in prophylaxis in elective colorectal surgery. Hall C, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:195-202

Ticarcillin/clavulanate in the treatment of severe peritonitis. Inthorn D, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:141-6

A comparison between amoxycillin/clavulanate and mezlocillin in abdominal surgical prophylaxis. Menzies D, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:203-8

Clinical efficacy of amoxycillin/clavulanate in laparoscopically confirmed salpingitis. Obwegeser J, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:165-76

Controlled prospective study of oral amoxycillin/clavulanate vs ciprofloxacin in acute exacerbations of chronic bronchitis. Schmidt EW, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:185-93

Antibiotic therapy of perforated appendicitis in children: a comparison of amoxycillin/clavulanate with a combination of benzylpenicillin, netilmicin and metronidazole. Schmitt M, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:157-63

Phenoxymethyl-penicillin vs co-amoxyclav in acute recurrent tonsillitis [letter; comment] Sheppard MJ, et al. **J Antimicrob Chemother** 1990 Mar;25(3):474-5 Comment on: J Antimicrob Chemother 1989 Aug;24(2):227-33.

Role of beta-lactamases in the response of pulmonary infections to amoxycillin/clavulanate. Stockley RA, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:73-81

Therapeutic efficacy of timentin and augmentin versus silvadene in burn wound infections. Heggers JP, et al. **J Burn Care Rehabil** 1989 Sep-Oct;10(5):421-4

Effect of non-surgical periodontal therapy combined with adjunctive antibiotics in subjects with "refractory" periodontal disease. (I). Clinical results. Magnusson I, et al. **J Clin Periodontol** 1989 Nov;16(10):647-53

Etiology and treatment of post-cesarean-section endometritis after cephalosporin prophylaxis. Hillier S, et al. **J Reprod Med** 1990 Mar;35(3 Suppl):322-8

Ticarcillin/clavulanate for the treatment of female genital tract infections. Efficacy, safety and comparative microbiology. McGregor JA. **J Reprod Med** 1990 Mar;35(3 Suppl):333-8

Treatment of experimental pasteurellosis in lambs with clavulanic acid and amoxycillin [see comments] Gilmour NJ, et al. **Vet Rec** 1990 Mar 31;126(13):311 Comment in: Vet Rec 1990 May 26;126(21):537.

Product advertisement [letter] Speak SC. **Vet Rec** 1990 May 26;126(21):537-8

Parenteral amoxycillin/clavulanate in the treatment of diarrhoea in young pigs. Webster CJ. **Vet Rec** 1990 Apr 14;126(15):363-4

[Acute otitis media in children: a randomized and open clinical trial of the efficacy of 2 major antibiotics (erythromycin ethylsuccinate/acetyl sulfafurazole vs amoxicillin/clavulanic acid)] Bégué P, et al. **Ann Pediatr (Paris)** 1990 Feb;37(2):127-30 (Eng. Abstr.) (Fre)

[Ambulatory treatment with cefuroxime-axetil of infectious bronchitis in patients sixty years of age or older: comparative study of the combination of amoxicillin and clavulanic acid] Hugonot R, et al. **Pathol Biol (Paris)** 1990 Jun;38(5 (Pt 2)):533-7 (Eng. Abstr.) (Fre)

[Treatment of upper genital infections in women. Multicenter study of the comparative efficacy and tolerance of an amoxicillin-clavulanic acid combination and of a triple antibiotic combination] Buisson P, et al. **Rev Fr Gynecol Obstet** 1989 Oct;84(10):699-703 (Eng. Abstr.) (Fre)

[Proposal for a new therapeutic strategy in high genital infections] Verhoest P, et al. **Rev Fr Gynecol Obstet** 1989 Dec;84(12):933-40 (Eng. Abstr.) (Fre)

[Treatment of uncomplicated urinary tract infections. Effectiveness and tolerance of sultamicillin compared with amoxicillin/clavulanic acid] Schütz W. **Fortschr Med** 1990 Jun 20;108(18):365-8 (Eng. Abstr.) (Ger)

[Usefulness of an amoxicillin/clavulanic-acid combination in respiratory tract infection: bacterial resistance and antibiotic therapy] Caramia M, et al. **Minerva Pediatr** 1990 Jan-Feb;42(1-2):29-34 (33 ref.) (Eng. Abstr.) (Ita)

[Long-term therapy with amoxicillin and clavulanic acid in recurrent urinary tract infections in childhood] Ruberto U, et al. **Minerva Pediatr** 1989 May;41(5):263-5 (Eng. Abstr.) (Ita)

[Comparison of amoxicillin and amoxiclav in the therapy of respiratory infections] Mušič E, et al. **Plucne Bolesti** 1989 Jul-Dec;41(3-4):187-92 (Eng. Abstr.) (Scr)

[Amoxicillin in association with clavulanic acid in the treatment of urinary infection in children] Roca i Martínez J, et al. **An Esp Pediatr** 1990 Jan;32(1):53-7 (Eng. Abstr.) (Spa)

CLAW see **HOOF AND CLAW**

CLEAVAGE, CELL see **CELL DIVISION**

CLEAVAGE STAGE, OVUM

see related
CELL DIVISION

Semen predictors of in vitro fertilization and embryo cleavage. Daya S, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1284-9

Periodic segmental anomalies induced by heat shock in the chick embryo are associated with the cell cycle. Primmett DR, et al. **Development** 1989 Jan;105(1):119-30

Cryopreservation of gametes and cleavage stage embryos. Siebzehnrübl ER. **Hum Reprod** 1989 Nov;4(8 Suppl):105-10 (38 ref.)

Effects of the number, stage and parental origin of nuclei in reconstructed mouse eggs. Howlett SK, et al. **J Reprod Fertil Suppl** 1989;38:99-105 (27 ref.)

[Mechanism of cytokinesis: isolation and properties of cleavage furrow] Mabuchi I, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1672-9 (Jpn)

ANALYSIS

Selection of mouse preimplantation embryos carrying exogenous DNA by polymerase chain reaction. Ninomiya T, et al. **Mol Reprod Dev** 1989;1(4):242-8

CYTOLOGY

Early embryonic development in vitro by coculture with oviductal epithelial cells in pigs. White KL, et al. **Biol Reprod** 1989 Sep;41(3):425-30

Maintenance of compaction and adherent-type junctions in mouse morula-stage embryos. Reima I. **Cell Differ Dev** 1990 Feb;29(2):143-53

Cell-cell interactions determine the dorsoventral axis in embryos of an equally cleaving onisthobranch mollusc. Boring L. **Dev Biol** 1989 Nov;136(1):239-53

Evolutionary change in the process of dorsoventral axis determination in the direct developing sea urchin, Heliocidaris erythrogramma. Henry JJ, et al. **Dev Biol** 1990 Sep;141(1):55-69

Inner cell allocation in the mouse morula: the role of oriented division during fourth cleavage. Sutherland AE, et al. **Dev Biol** 1990 Jan;137(1):13-25

Decreased inner cell mass proportion in blastocysts from diabetic rats. Pampfer S, et al. **Diabetes** 1990 Apr; 39(4):471-6

Development of chimaeric two-cell mouse embryos produced by allogenic exchange of single nucleus from two- and eight-cell embryos. Kono T, et al. **Gamete Res** 1989 Dec;24(4):375-84

A new variation of in-vitro fertilization: intravaginal culture of human oocytes and cleavage stages. Sterzik K, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):83-6

The c-mos proto-oncogene product is a cytostatic factor responsible for meiotic arrest in vertebrate eggs [see comments] Sagata N, et al. **Nature** 1989 Nov 30; 342(6249):512-8 Comment in: Nature 1989 Nov 30;342(6249):483-4.

DRUG EFFECTS

Effects of nitrous oxide on preimplantation mouse embryo cleavage and development. Warren JR, et al. **Biol Reprod** 1990 Jul;43(1):158-61

Regulation of mouse preimplantation development: inhibitory effect of genistein, an inhibitor of tyrosine protein phosphorylation, on cleavage of one-cell embryos. Besterman B, et al. **J Exp Zool** 1990 Oct;256(1):44-53

[Implication of glucose 6 phosphate isomerase (EC 5.3.1.9) activity in blocking segmentation of the mouse ovum at the 2 cell stage in vitro] Ménézo Y, et al. **C R Acad Sci [III]** 1990;310(7):297-301 (Eng. Abstr.) (Fre)

[Phorbol ester disrupts the cleavage pattern in sea urchin embryos] Bozhkova VP, et al. **Ontogenez** 1990 Mar-Apr; 21(2):160-6 (Eng. Abstr.) (Rus)

ENZYMOLOGY

Activation of protein kinase C triggers premature compaction in the four-cell stage mouse embryo. Winkel GK, et al. **Dev Biol** 1990 Mar;138(1):1-15

Immunohistochemical localization of prostaglandin H synthase in the embryo and uterus of the mouse from ovulation through implantation. Marshburn PB, et al. **Mol Reprod Dev** 1990 Apr;25(4):309-16

METABOLISM

Development of system B0,+ and a broad-scope Na(+)-dependent transporter of zwitterionic amino acids in preimplantation mouse conceptuses. Van Winkle LJ, et al. **Biochim Biophys Acta** 1990 Jun 27;1025(2):225-33

Stage-specific gene expression in early chick embryo. Zagris N, et al. **Dev Genet** 1989;10(4):333-8

Studies on incorporation of 3H-thymidine in Arbacia eggs under hydrostatic pressure. Zimmerman AM, et al. **Exp Cell Res** 1967 Jun;46(3):469-76

Development of a noninvasive ultramicrofluorometric method for measuring net uptake of glutamine by single preimplantation mouse embryos. Gardner DK, et al. **Gamete Res** 1989 Dec;24(4):427-38

Conversion of pregnenolone to progesterone by mouse morulae and blastocysts. Wu JT, et al. **J Reprod Fertil** 1990 Jan;88(1):93-8

Effects of macromolecules recovered from uterine luminal fluid on the metabolism of [U-14C]glucose by mouse morulae and early blastocysts in vitro. Khurana NK, et al. **Reprod Fertil Dev** 1989;1(2):89-98

Effects of oxygen concentration on the metabolism of [U-14C]glucose by mouse morulae and early blastocysts in vitro. Khurana NK, et al. **Reprod Fertil Dev** 1989; 1(2):99-106

MICROBIOLOGY

Effect of viruses on early mammalian development. III. Further studies concerning the interaction of Mengo encephalitis virus with mouse ova. Gwatkin RB. **Fertil Steril** 1966 May-Jun;17(3):411–20

PHYSIOLOGY

Cleavage plane determination in amphibian eggs. Sawai T, et al. **Ann N Y Acad Sci** 1990;582:40–9

Serendipity delta, a Drosophila zinc finger protein present in embryonic nuclei at the onset of zygotic gene transcription. Payre F, et al. **Dev Biol** 1989 Dec; 136(2):469–80

Lineage-specific gene expression and the regulative capacities of the sea urchin embryo: a proposed mechanism. Davidson EH. **Development** 1989 Mar;105(3):421–45 (37 ref.)

How embryos work: a comparative view of diverse modes of cell fate specification. Davidson EH. **Development** 1990 Mar;108(3):365–89 (200 ref.)

Experimental diabetes impairs rat embryo development during the preimplantation period. Vercheval M, et al. **Diabetologia** 1990 Apr;33(4):187–91

Effect of equilibration period on the viability of frozen-thawed mouse morulae after rapid freezing. Takahashi Y, et al. **Mol Reprod Dev** 1990 Jun;26(2):105–10

Survival of bisected rabbit morulae transferred to synchronous and asynchronous recipients. Yang XZ, et al. **Mol Reprod Dev** 1990 May;26(1):6–11

ULTRASTRUCTURE

Parthenogenesis in Xenopus eggs injected with centrosomes from synchronized human lymphoid cells. Tournier F, et al. **Dev Biol** 1989 Dec;136(2):321–9

The ultrastructure of the cortical cytoplasm in the unfertilized egg and first cleavage zygote of Xenopus laevis. Hebard CN, et al. **Exp Cell Res** 1967 Jun; 46(3):553–70

Morphometric categorization of the human oocyte and early conceptus. Goyanes VJ, et al. **Hum Reprod** 1990 Jul; 5(5):613–8

Interblastomeric plasma membrane formation during cleavage of Xenopus laevis embryos. Bieliavsky N, et al. **J Submicrosc Cytol Pathol** 1990 Jul;22(3):445–57

Nucleologenesis and the onset of transcription in the eight-cell bovine embryo: fine-structural autoradiographic study. Kopečný V, et al. **Mol Reprod Dev** 1989;1(2):79–90

CLEFT LIP

Hypodipsic hypernatremia and hypertriglyceridemia associated with cleft lip and cleft palate: a new hypothalamic dysfunction syndrome? Ben-Amitai D, et al. **Am J Med Genet** 1990 Jul;36(3):275–8

The Sri Lankan Cleft Lip and Palate Project: the unoperated cleft lip and palate. Mars M, et al. **Cleft Palate J** 1990 Jan;27(1):3–6

Cleft lip and palate associated with alveolar synechia and filiform palpebral synechia. Traaholt LM. **Plast Reconstr Surg** 1990 Aug;86(2):337–9

Computer data base for cleft lip and palate research. Jakobsson OP. **Scand J Plast Reconstr Surg Hand Surg** 1990;24(1):47–51

[Ankyloblepharon filiforme adnatum and associated syndromes] Bursztyn J, et al. **J Fr Ophtalmol** 1989; 12(8–9):553–9 (32 ref.) (Eng. Abstr.) **(Fre)**

BLOOD

[The antioxidant status of children with congenital cleft lip and (or) palate] Lil'in ET, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):78–80 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Mongolian spots associated with cleft lip. Kurata S, et al. **Br J Plast Surg** 1989 Nov;42(6):625–7

The otologic significance of cleft palate in a Sri Lankan population. Albert DM, et al. **Cleft Palate J** 1990 Apr; 27(2):155–61; discussion 174–5

Evaluation of craniomandibular dysfunction in children 6 to 10 years of age with unilateral cleft lip or cleft lip and palate: a clinical diagnostic adjunct. Vanderas AP, et al. **Cleft Palate J** 1989 Oct;26(4):332–7; discussion 337–8

Alcaptonuria with cleft lip. Nanda S, et al. **Indian Pediatr** 1989 Apr;26(4):389–90

Habitual dislocation of the patella. Sharma SV. **Int Orthop** 1990;14(1):21–3

Median clefting of the upper lip associated with cutaneous polyps. Reardon W, et al. **J Med Genet** 1990 May; 27(5):337–8

Congenital intraoral epithelial bands: report of two cases. Bagatin M, et al. **J Oral Maxillofac Surg** 1990 Mar; 48(3):309–10

The modified tongue-anchor technique as a screening test for velopharyngeal inadequacy: a reassessment. Dalston RM, et al. **J Speech Hear Disord** 1990 Aug;55(3):510–5

Augmentation of the nostril splint for retaining the corrected contour of the cleft lip nose. Nakajima T, et al. **Plast Reconstr Surg** 1990 Feb;85(2):182–6

[Additional data on the article "Ectrodactylia, ectodermal dysplasia, cleft lip and palate syndrome", by G. Ostorharics–H. and Ildikó Lázár (letter)] Elek C. **Orv Hetil** 1990 Apr 8;131(14):779 **(Hun)**

[Ectrodactyly, ectodermal dysplasia, cleft lip and palate syndrome (EEC syndrome)] Ostorharics–Horváth G, et al. **Orv Hetil** 1989 Oct 8;130(41):2211–2 (Eng. Abstr.) **(Hun)**

[Complete median cleft of the lower lip and mandible associated with a complex congenital cardiopathy] Herranz Jordán B, et al. **An Esp Pediatr** 1989 Jul;31(1):83–5 **(Spa)**

[Radial defects, complicated cleft lip and ectrodactily syndrome] Infante JI, et al. **Rev Chil Pediatr** 1988 Nov-Dec;59(6):380–3 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Prenatal detection and fetal surgery of clefts and craniofacial abnormalities in humans: social and ethical issues. Strauss RP, et al. **Cleft Palate J** 1990 Apr;27(2):176–82; discussion 182–3

EMBRYOLOGY

Morphological observations in normal primary palate and cleft lip embryos in the Kyoto collection. Diewert VM, et al. **Teratology** 1990 Jun;41(6):663–77

EPIDEMIOLOGY

Facial clefting in Kuwait and England: a comparative study. Srivastava S, et al. **Br J Plast Surg** 1990 Jul;43(4):457–62

Incidence and prevalence of cleft lip and palate [letter; comment] Sayetta RB. **Cleft Palate J** 1990 Apr;27(2):203 Comment on: Cleft Palate J 1989 Jul;26(3):242–7; discussion 247–8.

Congenital heart anomalies in patients with clefts of the lip and/or palate. Wyse RK, et al. **Cleft Palate J** 1990 Jul; 27(3):258–64; discussion 264–5

Congenital cleft deformities in Rivers state of Nigeria: is there any association with environmental pollution? Datubo-Brown DD, et al. **J R Coll Surg Edinb** 1989 Dec; 34(6):328–31

Pattern of cleft lip and palate deformities in Rivers State of Nigeria. Datubo-Brown DD, et al. **JPMA** 1990 Mar; 40(3):64–6

A study of cleft lip and palate in neonates born in a large Malaysian maternity hospital over a 2-year period. Boo NY, et al. **Singapore Med J** 1990 Feb;31(1):59–62

[Cleft lip and cleft palate in the Craniofacial Center, Chang Gung Memorial Hospital: incidence, sex, seasonality and topographic distribution] Wang SL, et al. **Chang Keng I Hsueh** 1989 Dec 20;12(4):215–24 (Eng. Abstr.) **(Chi)**

[The incidence of the development of congenital clefts of the upper lip and palate in relation to blood group among the inhabitants of the provinces of the People's Republic of China] Chzhan SSh, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):71–2 (Eng. Abstr.) **(Rus)**

[The incidence of congenital anomalies of the oral cavity in neonates in the Banja Luka region] Terzić R. **Med Arh** 1987;41(6):323–6 (Eng. Abstr.) **(Scr)**

[Cleft lip and cleft palate in Santiago de Chile: epidemiologic study] Blanco R, et al. **Rev Med Chil** 1988 Dec; 116(12):1320–6 (Eng. Abstr.) **(Spa)**

ETIOLOGY

An unusual cleft lip secondary to amniotic bands. Kumar P, et al. **Br J Plast Surg** 1990 Jul;43(4):492–3

GENETICS

Linkage of an autosomal dominant clefting syndrome (Van der Woude) to loci on chromosome 1q. Murray JC, et al. **Am J Hum Genet** 1990 Mar;46(3):486–91

Apparently balanced chromosome translocations and midline defects [letter] Cowchock S. **Am J Med Genet** 1989 Jul; 33(3):424

Test of genetic heterogeneity of cleft lip with or without cleft palate as related to race and severity. Chung CS, et al. **Genet Epidemiol** 1989;6(5):625–31

Dominantly inherited cleft lip and palate [letter] De Paepe A. **J Med Genet** 1989 Dec;26(12):794

[Van der Woude syndrome (lip pits, cleft lip and cleft palate syndrome)] Gao N. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Jun;5(2):98–9, 157 (Eng. Abstr.) **(Chi)**

[Genetic analysis of two families with van der Woude's syndrome (lip pits, cleft palate, and cleft lip syndrome)] Burdick AB, et al. **I Chuan Hsueh Pao** 1988;15(5):396–400 (Eng. Abstr.) **(Chi)**

[Lip pits and Van der Woude syndrome. Description of a new familial case] Rizzo A, et al. **Pediatr Med Chir** 1990 Jan-Feb;12(1):99–103 (Eng. Abstr.) **(Ita)**

[Clinical cytogenetic studies on patients with cleft lip and/or cleft palate—2. Chromosome analysis of twins] Hashimoto K, et al. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):12–5 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

[HLA system and lip-jaw clefts] Májský A, et al. **Zahn Mund Kieferheilkd** 1989;77(6):580–1 **(Ger)**

PATHOLOGY

Pneumatization of the paranasal sinuses (maxillary and frontal) in cleft lip and palate. Francis P, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug;116(8):920–2

Anatomy of the orbicularis oris muscle in cleft lip. De Mey A, et al. **Br J Plast Surg** 1989 Nov;42(6):710–4

A study model analysis of adult unoperated Sri Lankans with unilateral cleft lip and palate. McCance AM, et al. **Cleft Palate J** 1990 Apr;27(2):146–54; discussion 174–5

Response to commentary on the papers from the Sri Lankan Cleft Lip and Palate Project [letter] Mars M, et al. **Cleft Palate J** 1990 Jul;27(3):321

Asymmetry of the maxilla in children with complete unilateral cleft lip and palate. Mølsted K, et al. **Cleft Palate J** 1990 Apr;27(2):184–90; discussion 190–2

A study of cephalometric features in cleft lip-cleft palate families. I: Phenotypic heterogeneity and genetic predisposition in parents of sporadic cases. Ward RE, et al. **Cleft Palate J** 1989 Oct;26(4):318–25; discussion 325–6

Frontal cephalometric study of dentofacial morphology in children with bilateral clefts of lip, alveolus and palate. Athanasiou AE, et al. **J Craniomaxillofac Surg** 1990 Feb; 18(2):49–54

Duplication of the nose with unilateral complete cleft lip, alveolus, and palate in a male child. Yadava VN. **Plast Reconstr Surg** 1990 Jun;85(6):953–4

[Anomalies of enamel formation in subjects with maxillary clefts] Lagarde A, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(4):191–7 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Delayed dental development in children with isolated cleft lip and palate. Harris EF, et al. **Arch Oral Biol** 1990; 35(6):469–73

A preliminary report on the use of auditory brain-stem response audiometry and the timing of tympanotomy with pressure equalization tube insertion in cleft palate neonates. Pickard RE, et al. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1253

Pharyngeal flap and facial growth. Semb G, et al. **Cleft Palate J** 1990 Jul;27(3):217–24 (21 ref.)

The relationship between nasal airway size and nasal-oral breathing in cleft lip and palate. Warren DW, et al. **Cleft Palate J** 1990 Jan;27(1):46–51; discussion 51–2

Emergence of the deciduous incisors in CLP children. Kramer GJ, et al. **Eur J Orthod** 1989 Aug;11(3):265–70

The significance of alveolar bone in periodontal disease. A long-term observation in patients with cleft lip, alveolus and palate. Brägger U, et al. **J Clin Periodontol** 1990 Jul; 17(6):379–84

PREVENTION & CONTROL

Protective family regimen in cleft lip and palate. Černý M, et al. **Acta Chir Plast** 1989;31(2):108–17

Preventive effects of estradiol on cleft lip and/or palate in mice [letter] Miura S, et al. **Plast Reconstr Surg** 1989 Nov; 84(5):852–3

PSYCHOLOGY

Effects of craniofacial birth defects on maternal functioning postinfancy. Speltz ML, et al. **J Pediatr Psychol** 1990 Apr; 15(2):177–96

Psychological problems of patients with cleft lip and palate: discussion paper. Lansdown R. **J R Soc Med** 1990 Jul; 83(7):448–50

[Psychological and social problems in families with children with congenital defects] Dytrych Z, et al. **Cas Lek Cesk** 1990 Jun 1;129(22):678–82 (Eng. Abstr.) **(Cze)**

[Coping behavior and supplying medical information—a study of mothers having delivered a child with a lip-jaw-palate cleft] Chwalek W, et al. **Geburtshilfe Frauenheilkd** 1990 Jan;50(1):49–55 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Computed axial tomographic assessment of craniocorbital anatomy in unilateral clefts. Schendel SA, et al. **Ann Plast Surg** 1986 Aug;17(2):120–4

[Analysis of the nasal area in unilateral cleft lip and palate, by means of cephalometric teleradiography] Scaf G, et al. **Acta Otorrinolaringol Esp** 1989 Jan-Feb;40(1):33–7 (Eng. Abstr.) **(Spa)**

REHABILITATION

Speech results following late palatal surgery in previously unoperated Sri Lankan adolescents with cleft palate. Sell DA, et al. **Cleft Palate J** 1990 Apr;27(2):162–8; discussion 174–5

Training assistants in cleft palate speech therapy in the developing world: a report. Wirt A, et al. **Cleft Palate J** 1990 Apr;27(2):169–74; discussion 174–5

Provisional restoration for a patient with cleft lip and palate: a clinical report. DaBreo EL, et al. **J Prosthet Dent** 1990 Feb;63(2):119–21

SURGERY

Effects of primary osteoplasty on facial growth in unilateral

cleft lip and palate after ten years of follow-up. Müllerová Z, et al. **Acta Chir Plast** 1989;31(3):181–91

Cleft lip–nose repair technique: sequential repair. Onizuka T, et al. **Aesthetic Plast Surg** 1990 Summer;14(3):207–13

A rare patient with a false median cleft lip associated with multiple congenital anomalies. Ohtsuka H. **Ann Plast Surg** 1986 Aug;17(2):155–60 (12 ref.)

Cleft lip repair in newborn babies. Desai SN. **Ann R Coll Surg Engl** 1990 Mar;72(2):101–3

Cleft lips and palates. Types, repairs, nursing care. Sauter SK. **AORN J** 1989 Oct;50(4):813–24

Primary Abbe flap in bilateral cleft lip. Antia NH. **Br J Plast Surg** 1966 Jul;19(3):215–9

The oblique facial cleft: a 20-year follow-up. Boo-Chai K. **Br J Plast Surg** 1990 May;43(3):355–8

Neonatal cleft lip repair in Ayrshire; a contribution to the debate. Freedlander E, et al. **Br J Plast Surg** 1990 Mar; 43(2):197–202

Assessing blood loss in cleft lip and palate surgery. Herbert KJ, et al. **Br J Plast Surg** 1990 Jul;43(4):497–8

The management of a complete cleft of the lip and palate in a baby with severe classical haemophilia. Hussein MA, et al. **Br J Plast Surg** 1966 Jul;19(3):220–5

Repair of bilateral cleft lip over prominent premaxilla. Kumar PA, et al. **Br J Plast Surg** 1989 Nov;42(6):660–7

Nasolacrimal abnormalities in oblique facial clefts. Stretch JR, et al. **Br J Plast Surg** 1990 Jul;43(4):463–7

Anaesthesia in cleft lip and cleft palate surgery of children. Gunawardena RH. **Ceylon Med J** 1990 Jun;35(2):63–6

Surgery of cleft lip and palate in Sri Lanka. Ward CM. **Chirurgie** 1989;115(9):637–9

The influence of cleft lip repair on facial growth. Bardach J. **Cleft Palate J** 1990 Jan;27(1):76–8

A preliminary study of facial growth and morphology in unoperated male unilateral cleft lip and palate subjects over 13 years of age. Mars M, et al. **Cleft Palate J** 1990 Jan; 27(1):7–10

An evaluation of calvarial and iliac donor sites in alveolar cleft grafting. Sadove AM, et al. **Cleft Palate J** 1990 Jul; 27(3):225–8; discussion 229

Surgery of 346 patients with unoperated cleft lip and palate in Sri Lanka. Ward CM, et al. **Cleft Palate J** 1990 Jan; 27(1):11–5; discussion 15–7

Maxillofacial osteotomies for patients with cleft lip and palate. Marsh JL, et al. **Clin Plast Surg** 1989 Oct; 16(4):803–14 (53 ref.)

When is enough enough? Secondary surgery for cleft lip and palate patients. Marsh JL. **Clin Plast Surg** 1990 Jan; 17(1):37–47

The influence of bone grafting age on dental abnormalities and alveolar bone height in patients with unilateral cleft lip and palate. Brattström V, et al. **Eur J Orthod** 1989 Nov; 11(4):351–8 (19 ref.)

Papers of the 4th International Hamburg Symposium on Craniofacial Anomalies and Clefts of Lip, Alveolus, and Palate. August 30–September 4, 1987. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:1–54

Primary unilateral cleft lip repair without primary rhinoplasty. A preliminary report. Bütow KW. **J Craniomaxillofac Surg** 1990 Jan;18(1):14–8

Six years' experience with free septum replantation in cleft nasal correction. Gubisch W, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:31–3

Muscle reconstruction in primary cleft lip surgery. Joos U. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:8–10

Evaluation of the result of surgery on cleft lip and palate and skeletal growth determinants of the cranial base. Joos U. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:23–5

Differentiated reconstruction of the orbicularis oris muscle in unilateral labioplasty. Müller W. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:11–3

Secondary correction of bilateral cleft lip nose deformity. Nakajima T, et al. **J Craniomaxillofac Surg** 1990 Feb; 18(2):63–7

A modified technique to correct the cleft lip nasal deformity. Ozcan G. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:14–6

Single stage repair of the median cleft lip deformity in holoprosencephaly [see comments] Sadove AM, et al. **J Craniomaxillofac Surg** 1989 Nov;17(8):363–6 Comment in: J Craniomaxillofac Surg 1990 May;18(4):182–3.

Single stage repair of the median cleft lip deformity in holoprosencephaly [letter; comment] Voy ED. **J Craniomaxillofac Surg** 1990 May;18(4):182–3 Comment on: J Craniomaxillofac Surg 1989 Nov;17(8):363–6.

A rabbit model for fetal cleft lip repair. Longaker MT, et al. **J Oral Maxillofac Surg** 1990 Jul;48(7):714–9

Allogeneic bone for secondary alveolar cleft osteoplasty. Maxson BB, et al. **J Oral Maxillofac Surg** 1990 Sep; 48(9):933–41

Reconstruction of alveolar clefts with mandibular or iliac crest bone grafts: a comparative study. Sindet-Pedersen S, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):554–8; discussion 559–60

The surgical-prosthetic method of cleft lip and palate care: development of a comprehensive program. Hagerty RF, et al. **J S C Med Assoc** 1989 Dec;85(12):549–53 (10 ref.)

The management of the cleft lip and palate patient. Lydiatt DD, et al. **Nebr Med J** 1989 Nov;74(11):325–8; discussion 328–9

Intrauterine repair of cleft lip: what's involved. Dado DV, et al. **Plast Reconstr Surg** 1990 Mar;85(3):461–5; discussion 466–7

Skeletal stability after Le Fort I maxillary advancement in patients with unilateral cleft lip and palate. Posnick JC, et al. **Plast Reconstr Surg** 1990 May;85(5):706–10

Rare craniofacial clefts: Tessier no. 4 clefts. Resnick JI, et al. **Plast Reconstr Surg** 1990 Jun;85(6):843–9; discussion 850–2

In utero cleft lip repair in the mouse without an incision. Sullivan WG. **Plast Reconstr Surg** 1989 Nov;84(5):723–30; discussion 731–2

The role of tissue expansion in the treatment of atypical facial clefting. Toth BA, et al. **Plast Reconstr Surg** 1990 Jul; 86(1):119–22

Paediatric anaesthesia in a developing country. Wisborg T, et al. **Trop Doct** 1990 Apr;20(2):60–2

[Reconstruction of orbicularis oris muscle in the cleft lip repair] Cheng NX. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Mar;3(1):58–60 (Chi)

[Experience in the anesthetic management of 1,046 cases of cleft lip operation] Gu ZH. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1985 Sep;1(3):185–7 (Chi)

[The application of conchal cartilage graft in reconstruction of unilateral cleft lip nasal deformity] Li HL, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):136–7, 158 (Eng. Abstr.) (Chi)

[The significance of the treatment of secondary cleft lip in congenita deformity] Qi KM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):119–20 (Chi)

[Functional repair of unilateral cleft lip. A muscular flap technique] Qu MM, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):22–4, 74 (Eng. Abstr.) (Chi)

[Use of the matrix of de-calcified bone to repair nasal deformity after the repair of cleft lip] Qu YY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Mar;5(1):15–6 (Chi)

[Repair of the orbicularis oris muscle during the operation for unilateral cleft lip] Song RY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):4–9 (Chi)

[Cleft lip and its repair] Tani T. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):1–3 (Chi)

[Correction of severe nose deformity following repair of unilateral cleft lip in adults] Zhou LY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Sep;4(3):176–7 (Chi)

[Advanced rotation flap combined with a small triangular flap to repair unilateral cleft lip (report of 16 cases)] Zhou ML, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):193–4, 238 (Eng. Abstr.) (Chi)

[Fleur-de-lis flap] Tsai HC, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;45(1):45–52 (Eng. Abstr.) (Chi)

[Time and cleft lip and palate] Chancholle AR. **Ann Chir Plast Esthet** 1990;35(2):91–7 (26 ref.) (Fre)

[Anatomy of the naso-labial muscles and the mesethmoid in labiomaxillary cleft. A new surgical approach of cheiloplasty] Anagnostopoulos D, et al. **Bull Assoc Anat (Nancy)** 1989 Dec;73(223):3–7 (Eng. Abstr.) (Fre)

[Problems posed to the anesthetist-resuscitator by the surgery of labio-maxillo-palatine clefts] Populaire C, et al. **Cah Anesthesiol** 1989 Jun-Jul;37(4):265–70 (Fre)

[Surgical correction of the sequellae of unilateral and bilateral labio-alveolo-palatine clefts] Krupp S. **Rev Med Suisse Romande** 1990 Jun;110(6):521–5 (Fre)

[The 3 palatine fibromucous membranes. Their role in maxillary growth. Therapeutic role in surgery of the palatine shelves] Delaire J, et al. **Rev Stomatol Chir Maxillofac** 1989;90(6):379–90 (Eng. Abstr.) (Fre)

[Wound healing of in vitro inflicted lesions in skin organ cultures in comparison with fetal surgical interventions in mice] Torsten U, et al. **Arch Gynecol Obstet** 1989; 245(1–4):386–9 (Ger)

[Cleft nose correction in unilateral cleft formation] Gubisch W. **HNO** 1989 Oct;37(10):415–22 (Eng. Abstr.) (Ger)

[Closure of clefts of the hard palate using prostheses anchored with precision attachments] Gegesi Kiss J, et al. **Fogorv Sz** 1988 Oct;81(10):289–94 (Eng. Abstr.) (Hun)

[A proposal for a protocol for the registration of data on cases of cleft lip and jaw] Ubiglia GP, et al. **Minerva Stomatol** 1989 Sep;38(9):1021–3 (Eng. Abstr.) (Ita)

[The planning of reconstructive cheilorhinoplasty in deformities related to bilateral clefts of the upper lip] Vissarionov VA. **Stomatologiia (Mosk)** 1989 Nov-Dec; 68(6):32–3 (Eng. Abstr.) (Rus)

[Organization of services for children with congenital cleft palate and lip and ways to improve them] Kozlov VA. **Vestn Khir** 1989 Apr;142(4):136–9 (Rus)

[Breathing through the nose with correct positioning of the oral cavity as the basis for successful treatment of cheilognathopalatoschisis] Oblak P. **Chir Maxillofac Plast** 1988;18(1–3):1–6 (Eng. Abstr.) (Ser)

[Personal experience in the surgical treatment of congenital clefts of the lip, and the hard and soft palates] Tomić V, et al. **Med Arh** 1986;40(6):283–6 (Eng. Abstr.) (Ser)

THERAPY

Current cleft lip and palate management in the United Kingdom. Asher-McDade C, et al. **Br J Plast Surg** 1990 May;43(3):318–21

The New Jersey experience [editorial] Brown AS, et al. **Cleft Palate J** 1990 Jan;27(1):1–2

Presurgical orthopaedic treatment using hard plates. Hochban W, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:2–4

Stabilization of maxillary segments and dental arch after puberty, in cleft lip and palate cases. Holtgrave EA, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:45–8

Orthodontic treatment in adults with cleft lip and palate. Ranta R. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:42–4

Forward traction of the maxilla with cleft lip and palate in mixed and permanent dentitions. Ranta R. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:20–2

Orthopaedic protraction of the midface in the deciduous dentition. Results covering 3 years out of treatment. Tindlund RS. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:17–9

Orthodontic treatment of the primary dentition for patients with clefts of lip, alveolus, and palate following presurgical orthodontics, labioplasty and palatoplasty. Trankmann GJ. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:5–7

Long-term results of prosthetic therapy in adult cleft lip alveolus and palate patients. von Schwanewede H, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:52–4

The system of prosthetic treatment for CLAP patients. Wegscheider W, et al. **J Craniomaxillofac Surg** 1989 Dec; 17 Suppl 1:49–51

Current approaches to the orthodontic management of cleft lip and palate. Shaw WC, et al. **J R Soc Med** 1990 Jan; 83(1):30–3

[Syndrome patients within the framework of the early orthodontic treatment of infants with cheilognathopalatoschisis] Bacher M, et al. **Fortschr Kieferorthop** 1989 Dec;50(6):555–64 (Eng. Abstr.) (Ger)

[Three-dimensional recording of changes in infant jaws with bilateral lip-maxilla-palate clefts with special reference to the results of preoperative orthodontic therapy] Schenk HJ, et al. **Zahn Mund Kieferheilkd** 1989;77(6):555–60 (Eng. Abstr.) (Ger)

CLEFT PALATE

Rapp-Hodgkin ectodermal dysplasia. Santos H, et al. **Acta Paediatr Scand** 1990 Feb;79(2):245–7

Hypodipsic hypernatremia and hypertriglyceridemia associated with cleft lip and cleft palate: a new hypothalamic dysfunction syndrome? Ben-Amitai D, et al. **Am J Med Genet** 1990 Jul;36(3):275–8

Facial cleft and congenital megacolon: a specific disorder? [letter; comment] Breslau L, et al. **Am J Med Genet** 1989 Dec;34(4):613 Comment on: Am J Med Genet 1988 Oct;31(2):465–6.

The Velo-Cardio-Facial (Shprintzen) syndrome. Johnson CD, et al. **Bol Asoc Med P R** 1990 Jan;82(1):25–7

The Sri Lankan Cleft Lip and Palate Project: the unoperated cleft lip and palate. Mars M, et al. **Cleft Palate J** 1990 Jan;27(1):3–6

A transverse facial cleft accompanied by a accessory ear and hypoplasia of the upper extremity--a case report. Mihashi T, et al. **Fukuoka Igaku Zasshi** 1989 Jun;80(6):372–4

Cleft palate lateral synechia syndrome. Review of the literature and case report. Dinardo NM, et al. **Oral Surg Oral Med Oral Pathol** 1989 Nov;68(5):565–6 (10 ref.)

Lethal short-rib with median cleft and without polydactyly: a fourth case. van Maldergem L, et al. **Pediatr Radiol** 1990; 20(5):367–8

Di George anomaly and velocardiofacial syndrome. Stevens CA, et al. **Pediatrics** 1990 Apr;85(4):526–30

Cleft lip and palate associated with alveolar synechia and filiform palpebral synechia. Traaholt LM. **Plast Reconstr Surg** 1990 Aug;86(2):337–9

Computer data base for cleft lip and palate research. Jakobsson OP. **Scand J Plast Reconstr Surg Hand Surg** 1990;24(1):47–51

[Ankyloblepharon filiforme adnatum and associated syndromes] Bursztyn J, et al. **J Fr Ophtalmol** 1989; 12(8–9):553–9 (32 ref.) (Eng. Abstr.) (Fre)

BLOOD

[The antioxidant status of children with congenital cleft lip and (or) palate] Lil'in ET, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):78–80 (Eng. Abstr.) (Rus)

CHEMICALLY INDUCED

Differentiation of cyclophosphamide-treated hamster secondary palate: ultrastructural and biochemical observations. Shah RM. **Am J Anat** 1990 Jan;187(1):1–11

Inhibition of palatal fusion in vitro by indomethacin in two strains of mice with different H-2 backgrounds. Montenegro MA, et al. **Arch Oral Biol** 1989;34(12):949–55

Induction of cleft palate in mice by inhibitors of prostaglandin synthesis. Montenegro MA, et al.

J Craniofac Genet Dev Biol 1990;10(1):83–94

Multiple congenital contractures (MCC) and cleft palate induced in goats by ingestion of piperidine alkaloid–containing plants: reduction in fetal movement as the probable cause. Panter KE, et al. J Toxicol Clin Toxicol 1990;28(1):69–83

Etiology of retinoic acid–induced cleft palate varies with the embryonic stage. Abbott BD, et al. Teratology 1989 Dec; 40(6):533–53

Study of the mechanisms of BUdR–induced cleft palate in the mouse. Bannigan JG, et al. Teratology 1990 Jul; 42(1):79–89

Role of maternal plasma corticosterone elevation in the teratogenicity of secalonic acid D in mice. Eldeib MM, et al. Teratology 1990 Feb;41(2):137–46

Inhibition of trimethadione and dimethadione teratogenicity by the cyclooxygenase inhibitor acetylsalicylic acid: a unifying hypothesis for the teratologic effects of hydantoin anticonvulsants and structurally related compounds. Wells PG, et al. Toxicol Appl Pharmacol 1989 Mar 1;97(3):406–14

COMPLICATIONS

On the cause of sinusitis in patients with cleft palate [letter; comment] Finkelstein Y, et al. Arch Otolaryngol Head Neck Surg 1990 Apr;116(4):490–1 Comment on: Arch Otolaryngol Head Neck Surg 1989 Apr;115(4):442–6.

A comparative clinical study of Pierre Robin syndrome and isolated cleft palate. Amaratunga NA. Br J Oral Maxillofac Surg 1989 Dec;27(6):451–8

The otologic significance of cleft palate in a Sri Lankan population. Albert DM, et al. Cleft Palate J 1990 Apr; 27(2):155–61; discussion 174–5

Hearing loss and cleft palate: the perspective of time. Gould HJ. Cleft Palate J 1990 Jan;27(1):36–9

Evaluation of craniomandibular dysfunction in children 6 to 10 years of age with unilateral cleft lip or cleft lip and palate: a clinical diagnostic adjunct. Vanderas AP, et al. Cleft Palate J 1989 Oct;26(4):332–7; discussion 337–8

Orthodontic management of the congenital cleft palate patient. Philip C. Dent Clin North Am 1990 Apr; 34(2):343–59 (14 ref.)

Habitual dislocation of the patella. Sharma SV. Int Orthop 1990;14(1):21–3

Choanal atresia as a feature of ectrodactyly–ectodermal dysplasia–clefting (EEC) syndrome: a further case [letter; comment] Tucker K, et al. J Med Genet 1990 Mar;27(3):213 Comment on: J Med Genet 1989 Sep;26(9):586–9.

Congenital intraoral epithelial bands: report of two cases. Bagatin M, et al. J Oral Maxillofac Surg 1990 Mar; 48(3):309–10

The modified tongue–anchor technique as a screening test for velopharyngeal inadequacy: a reassessment. Dalston RM, et al. J Speech Hear Disord 1990 Aug;55(3):510–5

Speech analyses of four children with repaired cleft palates. Powers GR, et al. J Speech Hear Disord 1990 Aug; 55(3):542–9

Persistent buccopharyngeal membrane with cleft palate. A case report. Pillai KG, et al. Oral Surg Oral Med Oral Pathol 1990 Feb;69(2):164–6

[Additional data on the article "Ectrodactylia, ectodermal dysplasia, cleft lip and palate syndrome", by G. Ostorharics–H. and Ildikó Lázár (letter)] Elek C. Orv Hetil 1990 Apr 8;131(14):779 (Hun)

[Ectrodactyly, ectodermal dysplasia, cleft lip and palate syndrome (EEC syndrome)] Ostorharics–Horváth G, et al. Orv Hetil 1989 Oct 8;130(41):2211–2 (Eng. Abstr.) (Hun)

[Van der Woude syndrome] Calzavara Pinton PG, et al. G Ital Dermatol Venereol 1989 Apr;124(4):171–3 (Eng. Abstr.) (Ita)

[Otitis media with effusion in patients with cleft palate and congenital velopharyngeal insufficiency] Yabe R, et al. Nippon Jibiinkoka Gakkai Kaiho 1989 Jul;92(7):1012–20 (Eng. Abstr.) (Jpn)

[Evaluation of the results of the treatment of infections in newborn infants with developmental anomalies of the facial bones] Godula–Stuglik U, et al. Pediatr Pol 1989 Feb; 64(2):93–9 (Eng. Abstr.) (Pol)

DIAGNOSIS

Submucous cleft palate in the differential diagnosis of feeding difficulties. Moss AL, et al. Arch Dis Child 1990 Feb; 65(2):182–4

Prenatal detection and fetal surgery of clefts and craniofacial abnormalities in humans: social and ethical issues. Strauss RP, et al. Cleft Palate J 1990 Apr;27(2):176–82; discussion 182–3

Unknown syndrome: microcephaly, hypoplastic nose, exophthalmos, gum hyperplasia, cleft palate, low set ears, and osteosclerosis. Raine J, et al. J Med Genet 1989 Dec; 26(12):786–8

EMBRYOLOGY

Reduced epithelial surface activity is related to a higher incidence of facial clefting in A/WySn mice. Forbes DP, et al. J Craniofac Genet Dev Biol 1989;9(3):271–83

Effect of sexual differences on the development of cleft palate in the human [letter] Natsume N, et al. Plast Reconstr Surg 1989 Nov;84(5):854–5

Morphological observations in normal primary palate and cleft lip embryos in the Kyoto collection. Diewert VM, et al. Teratology 1990 Jun;41(6):663–77

EPIDEMIOLOGY

Facial clefting in Kuwait and England: a comparative study. Srivastava S, et al. Br J Plast Surg 1990 Jul;43(4):457–62

Incidence and prevalence of cleft lip and palate [letter; comment] Sayetta RB. Cleft Palate J 1990 Apr;27(2):203 Comment on: Cleft Palate J 1989 Jul;26(3):242–7; discussion 247–8.

Congenital heart anomalies in patients with clefts of the lip and/or palate. Wyse RK, et al. Cleft Palate J 1990 Jul; 27(3):258–64; discussion 264–5

Congenital cleft deformities in Rivers state of Nigeria: is there any association with environmental pollution? Datubo–Brown DD, et al. J R Coll Surg Edinb 1989 Dec; 34(6):328–31

Pattern of cleft lip and palate deformities in Rivers State of Nigeria. Datubo–Brown DD, et al. JPMA 1990 Mar; 40(3):64–6

A study of cleft lip and palate in neonates born in a large Malaysian maternity hospital over a 2-year period. Boo NY, et al. Singapore Med J 1990 Feb;31(1):59–62

[Cleft lip and cleft palate in the Craniofacial Center, Chang Gung Memorial Hospital: incidence, sex, seasonality and topographic distribution] Wang SL, et al. Chang Keng I Hsueh 1989 Dec 20;12(4):215–24 (Eng. Abstr.) (Chi)

[The incidence of the development of congenital clefts of the upper lip and palate in relation to blood group among the inhabitants of the provinces of the People's Republic of China] Chzhan SSh, et al. Stomatologiia (Mosk) 1990 Jan–Feb;69(1):71–2 (Eng. Abstr.) (Rus)

[The incidence of congenital anomalies of the oral cavity in neonates in the Banja Luka region] Terzić R. Med Arh 1987;41(6):323–6 (Eng. Abstr.) (Scr)

[Cleft lip and cleft palate in Santiago de Chile: epidemiologic study] Blanco R, et al. Rev Med Chil 1988 Dec; 116(12):1320–6 (Eng. Abstr.) (Spa)

ETIOLOGY

The pathogenesis of cleft palate associated with the Pierre Robin syndrome. An analysis of a seventeen–week human foetus. Latham RA. Br J Plast Surg 1966 Jul;19(3):205–14 (39 ref.)

Staphylococcus aureus inflammation and cleft palate in mice [letter] Tetsuya N, et al. Plast Reconstr Surg 1990 Apr; 85(4):637–8

GENETICS

Oto–palato–digital syndrome [letter] Gorlin RJ. Am J Dis Child 1967 Aug;114(2):215

Linkage of an autosomal dominant cleft lip and palate (Van der Woude) to loci on chromosome 1q. Murray JC, et al. Am J Hum Genet 1990 Mar;46(3):486–91

Re–evaluation of new X–linked syndrome for evidence of CHARGE syndrome or association. Abruzzo MA, et al. Am J Med Genet 1989 Nov;34(3):397–400

Familial congenital diaphragmatic defect and associated midline anomalies: further evidence for an X–linked midline gene? Carmi R, et al. Am J Med Genet 1990 Jul;36(3):313–5

Oral–facial–digital syndrome type VI (Váradi syndrome): further clinical delineation. Münke M, et al. Am J Med Genet 1990 Mar;35(3):360–9

Maxillonasal dysplasia, mandibular retrognathia and cleft palate. Mossey P, et al. Angle Orthod 1989 Winter; 59(4):257–61; discussion 262

X chromosome genes involved in the regulation of facial clefting and spina bifida. Moore GE, et al. Cleft Palate J 1990 Apr;27(2):131–5 (30 ref.)

Macrosomia, microphthalmia, +/– cleft palate and early infant death: a new autosomal recessive syndrome. Teebi AS, et al. Clin Genet 1989 Sep;36(3):174–7

Familial aggregation of epilepsy and clefting disorders: a review of the literature. Hecht JT, et al. Epilepsia 1990 Sep–Oct;31(5):574–7 (27 ref.)

Test of genetic heterogeneity of cleft lip with or without cleft palate as related to race and severity. Chung CS, et al. Genet Epidemiol 1989;6(5):625–31

Dominantly inherited cleft lip and palate [letter] De Paepe A. J Med Genet 1989 Dec;26(12):794

Oto–palato–digital syndrome in an Iranian infant. Farhud DD, et al. Monatsschr Kinderheilkd 1989 Oct;137(10):681–3

[Van der Woude syndrome (lip pits, cleft lip and cleft palate syndrome)] Gao N. Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1989 Jun;5(2):98–9, 157 (Eng. Abstr.) (Chi)

[Genetic analysis of two families with van der Woude's syndrome (lip pits, cleft palate, and cleft lip syndrome)] Burdick AB, et al. I Chuan Hsueh Pao 1988;15(5):396–400 (Eng. Abstr.) (Chi)

[Lip pits and Van der Woude syndrome. Description of a new familial case] Rizzo A, et al. Pediatr Med Chir 1990 Jan–Feb;12(1):99–103 (Eng. Abstr.) (Ita)

[Clinical cytogenetic studies on patients with cleft lip and/or cleft palate—2. Chromosome analysis of twins] Hashimoto K, et al. Kokubyo Gakkai Zasshi 1990 Mar;57(1):12–5 (Eng. Abstr.) (Jpn)

IMMUNOLOGY

[HLA system and lip–jaw clefts] Májský A, et al. Zahn Mund Kieferheilkd 1989;77(6):580–1 (Ger)

PATHOLOGY

Velar–pharyngeal status in cleft palate patients with expected adenoidal involution. Morris HL, et al. Ann Otol Rhinol Laryngol 1990 Jun;99(6 Pt 1):432–7

Pneumatization of the paranasal sinuses (maxillary and frontal) in cleft lip and palate. Francis P, et al. Arch Otolaryngol Head Neck Surg 1990 Aug;116(8):920–2

A study model analysis of adult unoperated Sri Lankans with unilateral cleft lip and palate. McCance AM, et al. Cleft Palate J 1990 Apr;27(2):146–54; discussion 174–5

Response to commentary on the papers from the Sri Lankan Cleft Lip and Palate Project [letter] Mars M, et al. Cleft Palate J 1990 Jul;27(3):321

Asymmetry of the maxilla in children with complete unilateral cleft lip and palate. Mølsted K, et al. Cleft Palate J 1990 Apr;27(2):184–90; discussion 190–2

A study of cephalometric features in cleft lip–cleft palate families. I: Phenotypic heterogeneity and genetic predisposition in parents of sporadic cases. Ward RE, et al. Cleft Palate J 1989 Oct;26(4):318–25; discussion 325–6

Frontal cephalometric study of dentofacial morphology in children with bilateral clefts of lip, alveolus and palate. Athanasiou AE, et al. J Craniomaxillofac Surg 1990 Feb; 18(2):49–54

Duplication of the nose with unilateral complete cleft lip, alveolus, and palate in a male child. Yadava VN. Plast Reconstr Surg 1990 Jun;85(6):953–4

[Mechanical obstruction of the juncture between the eustachian tube and pharynx. Pathogenesis of ear diseases in cleft palate] Godbersen GS. Folia Phoniatr (Basel) 1990; 42(3):105–10 (Eng. Abstr.) (Ger)

[Evaluation of the status of the palatopharyngeal area in children with congenital penetrating cleft palate] Makkamov EU, et al. Stomatologiia (Mosk) 1989 Sep–Oct; 68(5):83–5 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Delayed dental development in children with isolated cleft lip and palate. Harris EF, et al. Arch Oral Biol 1990; 35(6):469–73

A preliminary report on the use of auditory brain–stem response audiometry and the timing of tympanotomy with pressure equalization tube insertion in cleft palate neonates. Pickard RE, et al. Arch Otolaryngol Head Neck Surg 1989 Oct;115(10):1253

Pharyngeal flap and facial growth. Semb G, et al. Cleft Palate J 1990 Jul;27(3):217–24 (21 ref.)

The relationship between nasal airway size and nasal–oral breathing in cleft lip and palate. Warren DW, et al. Cleft Palate J 1990 Jan;27(1):46–51; discussion 51–2

Emergence of the deciduous incisors in CLP children. Kramer GJ, et al. Eur J Orthod 1989 Aug;11(3):265–70

The significance of alveolar bone in periodontal disease. A long–term observation in patients with cleft lip, alveolus and palate. Brägger U, et al. J Clin Periodontol 1990 Jul; 17(6):379–84

Palatopharyngeal activity in cleft palate subjects. Walter JD. J Prosthet Dent 1990 Feb;63(2):187–92

Nasal airflow measurement using a compensated thermistor anemometer. Part 2. Computer signal processing and quantitative analysis. Besar SS, et al. Med Biol Eng Comput 1990 Mar;28(2):127–32

PREVENTION & CONTROL

Protective family regimen in cleft lip and palate. Černý M, et al. Acta Chir Plast 1989;31(2):108–17

Preventive effects of estradiol on cleft lip and/or palate in mice [letter] Miura S, et al. Plast Reconstr Surg 1989 Nov; 84(5):852–3

PSYCHOLOGY

Effects of craniofacial birth defects on maternal functioning postinfancy. Speltz ML, et al. J Pediatr Psychol 1990 Apr; 15(2):177–96

Psychological problems of patients with cleft lip and palate: discussion paper. Lansdown R. J R Soc Med 1990 Jul; 83(7):448–50

[Coping behavior and supplying medical information—a study of mothers having delivered a child with a lip–jaw–palate cleft] Chwalek W, et al. Geburtshilfe Frauenheilkd 1990 Jan;50(1):49–55 (Eng. Abstr.) (Ger)

RADIOGRAPHY

Computed axial tomographic assessment of craniоorbital anatomy in unilateral clefts. Schendel SA, et al. Ann Plast Surg 1986 Aug;17(2):120–4

[Cleft palate and x–ray computed tomography: a multi–dimensional study in children and young adults] Nazat D. Orthod Fr 1986;57 Pt 2:657–66 (Eng. Abstr.) (Fre)

[Analysis of the nasal area in unilateral cleft lip and palate, by means of cephalometric teleradiography] Scaf G, et al. Acta Otorrinolaringol Esp 1989 Jan–Feb;40(1):33–7 (Eng. Abstr.) (Spa)

REHABILITATION

Early rehabilitation of children with cleft palate. Makhkamov EU, et al. **Acta Chir Plast** 1990;32(1):35–9

Speech results following late palatal surgery in previously unoperated Sri Lankan adolescents with cleft palate. Sell DA, et al. **Cleft Palate J** 1990 Apr;27(2):162–8; discussion 174–5

Training assistants in cleft palate speech therapy in the developing world: a report. Wirt A, et al. **Cleft Palate J** 1990 Apr;27(2):169–74; discussion 174–5

Provisional restoration for a patient with cleft lip and palate: a clinical report. DaBreo EL, et al. **J Prosthet Dent** 1990 Feb;63(2):119–21

[Multifactorial stepwise regression analysis of videofluoroscopic measurement and speech function after the repair of cleft palates] Chen N. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Mar;5(1):22–4, 76 (Eng. Abstr.) **(Chi)**

[Speech therapy for patients with left palate] Okasaki K. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):13–5 **(Chi)**

[The combined rehabilitation of patients with congenital clefts of the hard and soft palate] Gerasimenko MIu, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):62–3 (Eng. Abstr.) **(Rus)**

SURGERY

Effects of primary osteoplasty on facial growth in unilateral cleft lip and palate after ten years of follow-up. Müllerová Z, et al. **Acta Chir Plast** 1989;31(3):181–91

A case of congenital factor V deficiency combined with multiple congenital anomalies: successful management of palatoplasty. Tsuda H, et al. **Acta Haematol (Basel)** 1990; 83(1):49–52

Macroglossia causing airway obstruction following cleft palate repair [letter] Patane PS, et al. **Anesthesiology** 1989 Dec;71(6):995–6

Cleft lips and palates. Types, repairs, nursing care. Sauter SK. **AORN J** 1989 Oct;50(4):813–24

An aid to the localisation of the mobilised premaxillary segment. Alexander JK, et al. **Br J Oral Maxillofac Surg** 1990 Feb;28(1):57–8

Assessing blood loss in cleft lip and palate surgery. Herbert KJ, et al. **Br J Plast Surg** 1990 Jul;43(4):497–8

The management of a complete cleft of the lip and palate in a baby with severe classical haemophilia. Hussein MA, et al. **Br J Plast Surg** 1966 Jul;19(3):220–5

Repair of bilateral cleft lip over prominent premaxilla. Kumar PA, et al. **Br J Plast Surg** 1989 Nov;42(6):660–7

Use of a buccal musculomucosal flap to close palatal fistulae after cleft palate repair. Nakakita N, et al. **Br J Plast Surg** 1990 Jul;43(4):452–6

Consonantal intraoral air pressure characteristics in Brazilian postoperative cleft palate speakers with velopharyngeal disorders. Trindade IE, et al. **Braz J Med Biol Res** 1989; 22(6):667–74 (30 ref.)

Anaesthesia in cleft lip and cleft palate surgery of children. Gunawardena RH. **Ceylon Med J** 1990 Jun;35(2):63–6

Surgery of cleft lip and palate in Sri Lanka. Ward CM. **Chirurgie** 1989;115(9):637–9

A preliminary study of facial growth and morphology in unoperated male unilateral cleft lip and palate subjects over 13 years of age. Mars M, et al. **Cleft Palate J** 1990 Jan; 27(1):7–10

An evaluation of calvarial and iliac donor sites in alveolar cleft grafting. Sadove AM, et al. **Cleft Palate J** 1990 Jul; 27(3):225–8; discussion 229

Surgery of 346 patients with unoperated cleft lip and palate in Sri Lanka. Ward CM, et al. **Cleft Palate J** 1990 Jan; 27(1):11–5; discussion 15–7

Maxillofacial osteotomies for patients with cleft lip and palate. Marsh JL, et al. **Clin Plast Surg** 1989 Oct; 16(4):803–14 (53 ref.)

When is enough enough? Secondary surgery for cleft lip and palate patients. Marsh JL. **Clin Plast Surg** 1990 Jan; 17(1):37–47

Speech development. Peterson R, et al. **Clin Plast Surg** 1990 Jan;17(1):23–5

Optimal timing of cleft palate closure. Speech, facial growth, and hearing considerations. Rohrich RJ, et al. **Clin Plast Surg** 1990 Jan;17(1):27–36 (105 ref.)

The influence of bone grafting age on dental abnormalities and alveolar bone height in patients with unilateral cleft lip and palate. Brattström V, et al. **Eur J Orthod** 1989 Nov; 11(4):351–8 (19 ref.)

Late management of secondarily grafted clefts. Stoelinga PJ, et al. **Int J Oral Maxillofac Surg** 1990 Apr;19(2):97–102

Papers of the 4th International Hamburg Symposium on Craniofacial Anomalies and Clefts of Lip, Alveolus, and Palate. August 30–September 4, 1987. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:1–54

Early secondary bone grafting of alveolar cleft defects. A comparison between chin and rib grafts. Borstlap WA, et al. **J Craniomaxillofac Surg** 1990 Jul;18(5):201–5

The tongue and forehead flap in the closure of residual oronasal fistulae. Contreras O, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:39–41

Early secondary osteoplastic closure of the residual alveolar cleft in combination with orthodontic treatment. Freihofer HP, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:26–7

Six years' experience with free septum replantation in cleft nasal correction. Gubisch W, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:31–3

Primary palatorraphy in the adult cleft palate patient. Surgical, prosthetic and logopaedic aspects. Hoppenreijs TJ. **J Craniomaxillofac Surg** 1990 May;18(4):141–6

Evaluation of the result of surgery on cleft lip and palate and skeletal growth determinants of the cranial base. Joos U. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:23–5

Late secondary autogenous bone grafting in cleft patients comparing mandibular (ectomesenchymal) and iliac crest (mesenchymal) grafts. Koole R, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:28–30

Cleft palate fistula repair. Improved results by the addition of bone. Schultz RC. **J Craniomaxillofac Surg** 1989 Dec; 17 Suppl 1:34–6

Oronasal fistulae in repaired cleft palates. Shimizu M, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:37–8

Autogenous rib graft for reconstruction of alveolar bone defects in cleft patients. Long-term follow-up results. Witsenburg B, et al. **J Craniomaxillofac Surg** 1990 Feb; 18(2):55–62

Allogeneic bone for secondary alveolar cleft osteoplasty. Maxson BB, et al. **J Oral Maxillofac Surg** 1990 Sep; 48(9):933–41

Reconstruction of alveolar clefts with mandibular or iliac crest bone grafts: a comparative study. Sindet-Pedersen S, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):554–8; discussion 559–60

Alterations in velopharyngeal function after maxillary advancement in cleft palate patients. Watzke I, et al. **J Oral Maxillofac Surg** 1990 Jul;48(7):685–9

Surgical management of cleft palate: a review. Sommerlad BC. **J R Soc Med** 1989 Nov;82(11):677–8 (7 ref.)

The surgical-prosthetic method of cleft lip and palate care: development of a comprehensive program. Hagerty RF, et al. **J S C Med Assoc** 1989 Dec;85(12):549–53 (10 ref.)

A technique for one stage repair of complete palatal cleft. Ahmad I, et al. **JPMA** 1990 May;40(5):105–7

The management of the cleft lip and palate patient. Lydiatt DD, et al. **Nebr Med J** 1989 Nov;74(11):325–8; discussion 328–9

Skeletal stability after Le Fort I maxillary advancement in patients with unilateral cleft lip and palate. Posnick JC, et al. **Plast Reconstr Surg** 1990 May;85(5):706–10

Rare craniofacial clefts: Tessier no. 4 clefts. Resnick JI, et al. **Plast Reconstr Surg** 1990 Jun;85(6):843–9; discussion 850–2

The role of tissue expansion in the treatment of atypical facial clefting. Toth BA, et al. **Plast Reconstr Surg** 1990 Jul; 86(1):119–22

The effect of palatoplasty on airway patency and growth in infants with clefts and failure to thrive. Milerad J, et al. **Scand J Plast Reconstr Surg Hand Surg** 1989; 23(2):109–14

Paediatric anaesthesia in a developing country. Wisborg T, et al. **Trop Doct** 1990 Apr;20(2):60–2

[A combination method of elevation, retrusion of the palate and reduction of the transverse diameter of the pharyngeal cavity in the repair of cleft palate. Report of 51 cases] Fan ZR. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):255–6 **(Chi)**

[Repair of cleft palate by double reverse Z-plasty of the soft palate] Leng YC. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):109–10, 157 (Eng. Abstr.) **(Chi)**

[Complications of cleft palate repair] Qi KM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Mar;5(1):8–9, 74–5 (Eng. Abstr.) **(Chi)**

[Repair of cleft palate and uplift operation] Song YG. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):19–21 **(Chi)**

[The treatment of cleft palate] Sumiya N. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):10–2 **(Chi)**

[Prosthetic treatment by pushing back part of the hard palate in third-degree cleft palate] Zhou JL. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Nov; 24(6):356–8, 386 (Eng. Abstr.) **(Chi)**

[Closing of central palate defects using a temporal muscle flap] van der Wal KG, et al. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):538–40 (Eng. Abstr.) **(Dut)**

[Time and cleft lip and palate] Chancholle AR. **Ann Chir Plast Esthet** 1990;35(2):91–7 (26 ref.) **(Fre)**

[Anatomy of the naso-labial muscles and the mesethmoid in labiomaxillary cleft. A new surgical approach of cheiloplasty] Anagnostopoulos D, et al. **Bull Assoc Anat (Nancy)** 1989 Dec;73(223):3–7 (Eng. Abstr.) **(Fre)**

[Problems posed to the anesthetist-resuscitator by the surgery of labio-maxillo-palatine clefts] Populaire C, et al. **Cah Anesthesiol** 1989 Jun–Jul;37(4):265–70 **(Fre)**

[Early education of children with surgically treated cleft palate] Mousset MR. **Rev Laryngol Otol Rhinol (Bord)** 1989; 110(4):339–41 (Eng. Abstr.) **(Fre)**

[Surgical correction of the sequellae of unilateral and bilateral labio-alveolo-palatine clefts] Krupp S. **Rev Med Suisse Romande** 1990 Jun;110(6):521–5 **(Fre)**

[Closure of residual clefts of the palate. Indications and technic] Ajacques JC, et al. **Rev Stomatol Chir Maxillofac** 1989;90(6):399–402 (Eng. Abstr.) **(Fre)**

[The 3 palatine fibromucous membranes. Their role in maxillary growth. Therapeutic role in surgery of the palatine shelves] Delaire J, et al. **Rev Stomatol Chir Maxillofac** 1989;90(6):379–90 (Eng. Abstr.) **(Fre)**

[Cleft nose correction in unilateral cleft formation] Gubisch W. HNO 1989 Oct;37(10):415–22 (Eng. Abstr.) **(Ger)**

[Closure of clefts of the hard palate using prostheses anchored with precision attachments] Gegesi Kiss J, et al. **Fogorv Sz** 1988 Oct;81(10):289–94 (Eng. Abstr.) **(Hun)**

[Submucosal cleft of the palate] Belladonna M, et al. **Minerva Pediatr** 1989 Sep;41(9):485–90 (42 ref.) (Eng. Abstr.) **(Ita)**

[Acid-base balance and carbohydrate metabolism after palatoplasty in children with cleft palate] Takuma C. **Fukuoka Igaku Zasshi** 1990 Mar;81(3):135–44 (Eng. Abstr.) **(Jpn)**

[Use of cancellous bone and periosteal transplants in primary and secondary cleft palate during a change in dentition] Nadolna-Gawrych E. **Ann Acad Med Stetin** 1989;35:99–113 (Eng. Abstr.) **(Pol)**

[The importance of the thermometric method for assessing the function of mucoperiosteal flaps in uranostaphyloplasty with/without transection of the neurovascular bundles in the rehabilitation of patients with congenital cleft palate] Bernadskiĭ IuI, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb; 69(1):72–4 (Eng. Abstr.) **(Rus)**

[Organization of services for children with congenital cleft palate and lip and ways to improve them] Kozlov VA. **Vestn Khir** 1989 Apr;142(4):136–9 **(Rus)**

[Breathing through the nose with correct positioning of the oral cavity as the basis for successful treatment of cheilognathopalatoschisis] Oblak P. **Chir Maxillofac Plast** 1988;18(1–3):1–6 (Eng. Abstr.) **(Scr)**

[The effect of immunologic and bacteriologic factors on the surgical outcome in palatoschisis] Hasanbegović-Ferović D. **Med Arh** 1987;41(4):159–61 (Eng. Abstr.) **(Scr)**

[Personal experience in the surgical treatment of congenital clefts of the lip, and the hard and soft palates] Tomić V, et al. **Med Arh** 1986;40(6):283–6 (Eng. Abstr.) **(Scr)**

THERAPY

Current cleft lip and palate management in the United Kingdom. Asher-McDade C, et al. **Br J Plast Surg** 1990 May;43(3):318–21

The New Jersey experience [editorial] Brown AS, et al. **Cleft Palate J** 1990 Jan;27(1):1–2

Presurgical orthopaedic treatment using hard plates. Hochban W, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:2–4

Stabilization of maxillary segments and dental arch after puberty, in cleft lip and palate cases. Holtgrave EA, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:45–8

Orthodontic treatment in adults with cleft lip and palate. Ranta R. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:42–4

Forward traction of the maxilla with cleft lip and palate in mixed and permanent dentitions. Ranta R. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:20–2

Orthopaedic protraction of the midface in the deciduous dentition. Results covering 3 years out of treatment. Tindlund RS. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:17–9

Orthodontic treatment of the primary dentition for patients with clefts of lip, alveolus, and palate following presurgical orthodontics, labioplasty and palatoplasty. Tränkmann GJ. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:5–7

Long-term results of prosthetic therapy in adult cleft lip alveolus and palate patients. von Schwanewede H, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:52–4

The system of prosthetic treatment for CLAP patients. Wegscheider W, et al. **J Craniomaxillofac Surg** 1989 Dec; 17 Suppl 1:49–51

Role of the restorative dentist in the management of cleft palate patients: discussion paper. Kantorowicz GF. **J R Soc Med** 1990 Jan;83(1):29

Current approaches to the orthodontic management of cleft lip and palate. Shaw WC, et al. **J R Soc Med** 1990 Jan; 83(1):30–3

Early pre-surgical treatment of the cleft palate patient. Sullivan PG. **J R Soc Med** 1990 Feb;83(2):90–3

[Syndrome patients within the framework of the early orthodontic treatment of infants with cheilognathopalatoschisis] Bacher M, et al. **Fortschr Kieferorthop** 1989 Dec;50(6):555–64 (Eng. Abstr.) **(Ger)**

[Three-dimensional recording of changes in infant jaws with bilateral lip-maxilla-palate clefts with special reference to the results of preoperative orthodontic therapy] Schenk HJ, et al. **Zahn Mund Kieferheilkd** 1989;77(6):555–60 (Eng. Abstr.) **(Ger)**

CLEFT PALATE PROSTHESIS see **PALATAL OBTURATORS**

CLEIDOCRANIAL DYSOSTOSIS see **CLEIDOCRANIAL DYSPLASIA**

CLEIDOCRANIAL DYSPLASIA

CLASSIFICATION

[The surgical-orthodontic classification of retained and dystopic teeth of the second dentition in dysostosis cleidocranialis] Tränkmann J. **Fortschr Kieferorthop** 1989 Aug;50(4):316–25 (Eng. Abstr.) (Ger)

COMPLICATIONS

Unusual complications of autogenous rib grafts. Hopper C. **Oral Surg Oral Med Oral Pathol** 1990 Jan;69(1):28–30

GENETICS

[3 cases of cleidocranial dysostosis] Zamperoni A, et al. **Chir Organi Mov** 1989 Jul–Dec;74(3–4):127–35 (Eng. Abstr.) (Ita)

PHYSIOPATHOLOGY

Somatic development in cleidocranial dysplasia. Jensen BL. **Am J Med Genet** 1990 Jan;35(1):69–74

Development of the dentition in cleidocranial dysplasia. Jensen BL, et al. **J Oral Pathol Med** 1990 Feb;19(2):89–93

CLEMASTINE see under **PYRROLIDINES**

CLEMIZOLE see under **BENZIMIDAZOLES**

CLENBUTEROL see under **ETHANOLAMINES**

CLERAMBAULT SYNDROME see **ORGANIC MENTAL DISORDERS, PSYCHOTIC**

CLERGY

The Caregiver Information Project: a mechanism to assist religious leaders to help family caregivers. Sheehan NW. **Gerontologist** 1989 Oct;29(5):703–6

Community-based health promotion: a survey of churches, labor unions, supermarkets, and restaurants. Elder JP, et al. **J Community Health** 1989 Fall;14(3):159–68

The role of black churches in supporting compliance with antihypertension regimens. Smith ED. **Public Health Nurs** 1989 Dec;6(4):212–7

PSYCHOLOGY

State prison clergy counselor role self-perceptions. Peretti PO, et al. **Acta Psychiatr Belg** 1988;88(5–6):400–4

Moral beliefs of physicians, medical students, clergy, and lay public concerning AIDS. Francis RA. **J Natl Med Assoc** 1989 Nov;81(11):1141–7

CLETHRIONOMYS see **CRICETIDAE**

CLIENT-CENTERED THERAPY see **NONDIRECTIVE THERAPY**

CLIMACTERIC

A study of the experience of Glasgow women in the climacteric years. Barlow DH, et al. **Br J Obstet Gynaecol** 1989 Oct;96(10):1192–7

Is there an epidemiologic basis for a male climacteric syndrome? The Massachusetts Male Aging Study. McKinlay JB. **Prog Clin Biol Res** 1989;320:163–92 (147 ref.)

[Pathogenesis of the climacteric syndrome] Ye XQ. **Chung Hua Fu Chan Ko Tsa Chih** 1990 Mar;25(2):92–4, 124 (Eng. Abstr.) (Chi)

[Contraception and the climacteric] Fischl F. **Gynakol Rundsch** 1989;29(4):237–40 (Ger)

[Neuroendocrinology of male climacteric] Frajese G, et al. **G Clin Med** 1989 Dec;70(12):767, 771, 773–80 (Ita)

[Digital plethysmogram in women with climacteric disturbance after cold-water challenge test and effect of estrogen] Katoh K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jun;42(6):545–52 (Eng. Abstr.) (Jpn)

[Endocrinological analysis of climacteric symptoms and gonadal dysfunction by CRF test] Yakubo K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jun;42(6):553–60 (Eng. Abstr.) (Jpn)

[Neuroendocrinologic study of depressive disorders—with special reference to gonadal functions] Koshikawa N, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):622–7 (Jpn)

[The characteristics of systemic lupus erythematosus developing in the postclimacteric period] Alekberova ZS, et al. **Ter Arkh** 1989;61(12):95–8 (Rus)

[Clinical and neurohumoral indicators in women-alcoholics of reproductive and climacteric age] Semke VIa, et al. **Zh Nevropatol Psikhiatr** 1990;90(2):71–3 (Eng. Abstr.) (Rus)

BLOOD

[The pre-climacteric patient] Zahradnik HP. **Arch Gynecol Obstet** 1989;245(1–4):977–80 (16 ref.) (Eng. Abstr.) (Ger)

[Indicators of blood viscosity in women during menopause] Kochmański M, et al. **Pol Arch Med Wewn** 1987 Sep; 78(3):139–48 (Eng. Abstr.) (Pol)

[Pathogenetic mechanisms of the development of the cephalgic form of premenstrual syndrome in patients of older age groups] Komarova IuA, et al. **Akush Ginekol (Mosk)** 1989 Oct;(10):37–40 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Comparison of the effects of oral and transdermal oestradiol administration on oestrogen metabolism, protein synthesis, gonadotrophin release, bone turnover and climacteric symptoms in postmenopausal women. Selby P, et al. **Clin Endocrinol (Oxf)** 1989 Mar;30(3):241–9

Hot flushes during Gn-RH analogue administration despite normal serum oestradiol levels. Bider D, et al. **Maturitas** 1989 Sep;11(3):223–8

Carbohydrate metabolism during hormonal substitution therapy. De Cleyn K, et al. **Maturitas** 1989 Sep; 11(3):235–42

Estrogen replacement therapy and the estraderm transdermal system. Youngkin EQ. **Nurse Pract** 1990 May;15(5):19–26, 31

Physiology and treatment of hot flushes. Ravnikar V. **Obstet Gynecol** 1990 Apr;75(4 Suppl):3S–8S; discussion 15S–17S (22 ref.)

Hormonal therapy in climacteric women: compliance and its socioeconomic impact. Notelovitz M. **Public Health Rep** 1989 Sep–Oct;104 Suppl:70–5 (18 ref.)

Effects of conjugated equine oestrogens with and without the addition of cyclical medrogestone on hot flushes, liver function, blood pressure and endocrinological indices. Sonnendecker EW, et al. **S Afr Med J** 1990 Mar 17; 77(6):281–5

[Transcutaneous estradiol treatment in the climacteric] Pedersen OD, et al. **Ugeskr Laeger** 1990 Sep 3; 152(36):2561–4 (Eng. Abstr.) (Dan)

[Prevention of secondary manifestations of menopause. Perspectives and alternatives] Welti HJ. **Arch Gynecol Obstet** 1989;246 Suppl:S92–7 (31 ref.) (Fre)

[The climacteric—physiology or pathology?] Distler W. **Arch Gynecol Obstet** 1989;245(1–4):947–52 (24 ref.) (Eng. Abstr.) (Ger)

[Principles of estrogen therapy] Schneider HP. **Arch Gynecol Obstet** 1989;246 Suppl:S76–84 (17 ref.) (Ger)

[The role of progestins] Wyss HI. **Arch Gynecol Obstet** 1989; 246 Suppl:S85–91 (43 ref.) (Ger)

[Changes in AT-III following hormone therapy of females in the climacteric] Enzelsberger H, et al. **Gynakol Rundsch** 1989;29 Suppl 2:422–4 (Ger)

[Therapeutic possibilities in the climacteric] Huber JC. **Gynakol Rundsch** 1989;29(4):230–2 (Ger)

[The modification of thyroid dysfunction by hormone substitution in the climacteric] Kurz H, et al. **Gynakol Rundsch** 1989;29(4):243–5 (Ger)

[Oral hormone therapy in pre- and postmenopause] Braendle W. **Med Klin** 1990 Apr 15;85(4):200–5 (42 ref.) (Ger)

[Percutaneous estrogen therapy in the post-menopausal period] Keller PJ. **Schweiz Med Wochenschr** 1989 Jul 22; 119(29):999–1004 (Eng. Abstr.) (Ger)

[The effect of oral contraceptives on bone density in climacteric females] Enzelsberger H, et al. **Zentralbl Gynakol** 1989;111(14):967–73 (Eng. Abstr.) (Ger)

[Hypothalamic phospholipid liposomes in the treatment of the climacteric syndrome] Jasonni VM, et al. **Minerva Ginecol** 1989 Apr;41(4):187–93 (Eng. Abstr.) (Ita)

[Estrogen treatment. Effective or dangerous in the climacteric and postmenopausal period?] Iversen OE. **Tidsskr Nor Laegeforen** 1989 Sep 10;109(25):2531–4 (Nor)

[Recommendations from a group of experts: drug therapy of the climacteric syndrome] **Lakartidningen** 1989 Dec 13; 86(50):4447–9 (Swe)

[Treatment in the climacteric. Large or small gestagen dominance?] Beermann B. **Lakartidningen** 1990 Mar 21; 87(12):941 (Swe)

[Uncertainties about the climacteric syndrome] Staland B. **Lakartidningen** 1990 Feb 21;87(8):551 (Swe)

PHYSIOLOGY

Clinical, hormonal and biochemical features of menopausal women in Ibadan, Nigeria. Otolorin EO, et al. **Afr J Med Med Sci** 1989 Dec;18(4):251–5

Hot flushes are induced by thermogenic stimuli. McCallum KA, et al. **Br J Urol** 1989 Nov;64(5):507–10

Circadian rhythms in hot flashes in natural and surgically-induced menopause. Albright DL, et al. **Chronobiol Int** 1989;6(3):279–84

The menopausal hot flash: a procrustean bed of research. Levine-Silverman S. **J Adv Nurs** 1989 Nov;14(11):939–49 (65 ref.)

Hormone replacement before menopause. Is it a good idea? Wells RG. **Postgrad Med** 1989 Nov 1;86(6):61–6, 71

Vasomotor flushes. Walsh B, et al. **Prog Clin Biol Res** 1989; 320:71–87 (40 ref.)

[Prevention of secondary manifestations of menopause. Pathophysiologic principles] Birkhäuser MH. **Arch Gynecol Obstet** 1989;246 Suppl:S67–72 (46 ref.) (Ger)

[Endocrinology of the climacteric] von Holst T, et al. **Arch Gynecol Obstet** 1989;245(1–4):952–7 (11 ref.) (Eng. Abstr.) (Ger)

[Neurophysiologic processes in the production of climacteric hot flushes] Schurz B, et al. **Gynakol Rundsch** 1989; 29(4):241–3 (Ger)

[The climacteric: aging of ovary and objective evaluation of the climacteric symptoms] Sagara Y. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Aug; 41(8):1039–44 (Eng. Abstr.) (Jpn)

[Blood lipids and the clinical state of hormone-treated women during menopause] Dominiczak-Gawrońska M. **Ann Acad Med Stetin** 1989;35:145–66 (Eng. Abstr.) (Pol)

[Effectiveness of diet therapy of obesity in women in the climacteric period] Kowalczyk-Gawrysiak L, et al. **Wiad Lek** 1989 Jan 15;42(2):79–82 (Eng. Abstr.) (Pol)

[Pathogenetic mechanisms of the development of "hot flushes" in patients with climacteric disorders of the sympathetic-adrenal type] Butareva LB, et al. **Akush Ginekol (Mosk)** 1989 Oct;(10):30–3 (Eng. Abstr.) (Rus)

[Characteristics of the clinical course of pathologic climacteric period from the gynecological and neurological viewpoints] Krasnoshchekova LI. **Akush Ginekol (Mosk)** 1989 Oct;(10):27–30 (Eng. Abstr.) (Rus)

[Neurologic disorders in women during the pathologic climacteric period] Krasnoshchekova LI. **Zh Nevropatol Psikhiatr** 1989;89(9):41–4 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Depression and the menopause [letter] Studd JW, et al. **BMJ** 1990 Jun 23;300(6740):1653

The menopausal hot flush: symptom reports and concomitant physiological changes. Swartzman LC, et al. **J Behav Med** 1990 Feb;13(1):15–30

Influences of natural menopause on psychological characteristics and symptoms of middle-aged healthy women. Matthews KA, et al. **J Consult Clin Psychol** 1990 Jun;58(3):345–51

Psychological experience of the climacteric and postmenopause. Hunter MS, et al. **Prog Clin Biol Res** 1989; 320:211–24

Laboratory and ambulatory monitoring of menopausal hot flashes. Freedman RR. **Psychophysiology** 1989 Sep; 26(5):573–9

Psychological and somatic experience of the menopause: a prospective study [corrected] [published erratum appears in Psychosom Med 1990 Jul–Aug;52(4):410] Hunter MS. **Psychosom Med** 1990 May–Jun;52(3):357–67

Social support and life satisfaction of black climacteric women. Jackson BB. **West J Nurs Res** 1990 Feb;12(1):9–23; discussion 23–7

[Psychosocial effects of the onset of menopause and physical symptoms in early postmenopause] Baum E. **Psychother Psychosom Med Psychol** 1990 Jun;40(6):200–6 (Eng. Abstr.) (Ger)

URINE

Urinary excretion of prostacyclin and thromboxane metabolites in climacteric women: effect of estrogen-progestin replacement therapy. Ylikorkala O, et al. **Prostaglandins** 1990 Jan;39(1):33–7

CLIMATE

see related

ACCLIMATIZATION

Atopic dermatitis and the indoor climate. Preventive measures related to the indoor climate. Beck HI, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:131–2

Physiological responses to various kinds of garments in cold, neutral, and warm conditions and their implications for physiological formation of physical characteristics in humans. Tokura H. **Ann Physiol Anthropol** 1988 Jan; 7(1):59–60

Climatic droplet keratopathy and pterygium. Taylor HR. **Aust J Ophthalmol** 1981 Aug;9(3):199–206

Climate, intermittent humidification, and humidifier fever. Anderson K, et al. **Br J Ind Med** 1989 Sep;46(9):671–4

Evaluation of tuberculosis prevalence and of the efficiency of case-finding in several bio-climatic zones of the Ivory Coast. Coulibaly IM, et al. **Bull Int Union Tuberc Lung Dis** 1989 Sep;64(3):18–22

Influence of climatic and edaphic factors on persistence of glyphosate and 2,4-D in forest soils. Torstensson NT, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):230–9

Application of the relative summary climatic indices during work in heat for ergonomic purposes. Hubač M, et al. **Ergonomics** 1989 Jul;32(7):733–50

Climate and bioclimate of the broader region of the spas at Kamena Vourla, Thermopylae, Hypati and Aedipsos and their hydrotherapeutical possibilities. Karagounis MN, et al. **Geogr Med Suppl** 1989;4:7–21

Continentality indices patterns in Greece. Kotinis-Zambakas SJ, et al. **Geogr Med Suppl** 1989;4:23–30

Abstracts of the twenty-seventh meeting of the Japanese Society of Biometeorology. Asahikawa, 31 October–1 November 1988. **Int J Biometeorol** 1989 Oct;33(3):197–204

Climate and physiological heat strain during exercise. de Freitas CR, et al. **Int J Biometeorol** 1989 Oct;33(3):157–64

Climate of the urban biosphere. Landsberg HE. **Int J Biometeorol** 1972;16 Suppl:71–83

Potential health effects of global climatic and environmental changes. Leaf A. **N Engl J Med** 1989 Dec 7; 321(23):1577–83

The environmental half-lives and mean residence times of contaminants in dust for an urban environment: Barrow-in-Furness. Allott RW, et al. **Sci Total Environ** 1990 Apr;93:403–10

Concentrations of air pollutants inside and outside cars driving on highways. Rudolf W. **Sci Total Environ** 1990 Apr;93:263–76

Plant life in cold climates. Körner C, et al. **Symp Soc Exp Biol** 1988;42:25–57

Environmental effects on thermoregulation and nutrition of horses. Cymbaluk NF, et al. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):355–72 (72 ref.)

[Resistance to drought of mollusks of the genus Bulinus, vectors of human and animal trematode infections in Senegal. II. Study under natural conditions in the North-Sudan area. Ecology and resistance to drought of Bulinus umbilicatus and B. senegalensis] Diaw OT, et al. **Rev Elev Med Vet Pays Trop** 1989;42(2):177–87 (Eng. Abstr.) (Fre)

[Respiratory tract diseases in relation to climate, air pollution and city structure] Katzschner L. **Off Gesundheitswes** 1990 Jan;52(1):14–21 (Eng. Abstr.) (Ger)

[Indications and successes of climate therapy of children] Menger W. **Off Gesundheitswes** 1989 Aug–Sep; 51(8–9):470–6 (Eng. Abstr.) (Ger)

[Effect of a stay in the North Sea climate on lymphocyte subpopulations in the peripheral blood of patients with exogenous allergic bronchial asthma and chronic bronchitis] Schmidt-Wolf I, et al. **Pneumologie** 1990 Feb; 44 Suppl 1:241–2 (Eng. Abstr.) (Ger)

[The effect of climatic and meteorologic factors on bronchial hyperreactivity and the course of bronchial asthma diseases and their potential significance in asthma prevention: hypotheses, methodologic approaches and initial results] Slapke J, et al. **Z Erkr Atmungsorgane** 1989;173(2):116–26 (62 ref.) (Eng. Abstr.) (Ger)

[Conclusions from field studies of stress on miners caused by dry-hot climate conditions] Hallmeyer A, et al. **Z Gesamte Hyg** 1990 Jun;36(6):302–4 (Eng. Abstr.) (Ger)

[The stress process of hot-dry climatic conditions in a simulation chamber] Lembke D, et al. **Z Gesamte Hyg** 1990 Jun;36(6):294–302 (Eng. Abstr.) (Ger)

[Work in very hot, dry climates: evaluation of stress and procedures for reducing strain on the human body] Wenzel HG. **Z Gesamte Hyg** 1990 Jun;36(6):382–8 (0 ref.) (Eng. Abstr.) (Ger)

[Biological rhythm in cardiovascular system with special reference to the effect of climate change] Yanaga T, et al. **Kokyu To Junkan** 1990 Jul;38(7):613–20 (Jpn)

[A study on the effect of water intake of umpires during a baseball game in a summer-heat environment] Kurakake S, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1120–7 (Eng. Abstr.) (Jpn)

[Isoprinosine and climatotherapy at the Czerniawa-Zdrój health resort in the treatment of children with recurrent respiratory tract infections] Jankowski A, et al. **Pneumonol Pol** 1989 Mar;57(3):192–5 (Eng. Abstr.) (Pol)

[Effectiveness of local cooling during work with isolating equipment under the conditions of heated microclimate] Taratushka VA. **Gig Sanit** 1990 Jan;(1):41–4 (Eng. Abstr.) (Rus)

[Comparative evaluation of the requirements for optimal microclimate conditions according to CH 7088–83 and ISO 7730–84 standards] Berakha RIa. **Gig Tr Prof Zabol** 1990; (3):31–4 (Eng. Abstr.) (Rus)

[The hygienic characteristics of the manufacturing environment in modern lead production and of the concomitant production processes] Legostaeva EG. **Gig Tr Prof Zabol** 1989;(12):4–7 (Eng. Abstr.) (Rus)

[The combined action of carbon monoxide and a heating microclimate on the human body under extreme conditions] Sedov AV, et al. **Gig Tr Prof Zabol** 1989;(12):1–4 (Eng. Abstr.) (Rus)

[Results of studies on long-term results of the effects of hot microclimate on the body of workers] Shleifman FM, et al. **Gig Tr Prof Zabol** 1990;(5):22–4 (Eng. Abstr.) (Rus)

[Role of hardening in lowering morbidity of pre-school children in hot climate conditions] Chukanin NN, et al. **Pediatriia** 1989;(10):104 (Rus)

[Health problems of thermoregulation in humans in the Far North] Dedenko II, et al. **Vestn Akad Med Nauk SSSR** 1989;(9):16–21 (Eng. Abstr.) (Rus)

[The history of physio- and climatotherapy in the Crimea] Gavrilenko AF. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov-Dec;(6):75–6 (Rus)

[External respiratory function in healthy subjects under joint exposure to conditions of a central highlands and a salt mine microclimate] Khamzamulin RO, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Sep-Oct;(5):22–6 (Eng. Abstr.) (Rus)

[The effect of verapamil on external respiratory function in bronchial asthma patients during high-altitude speleotherapy] Khamzamulin RO, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan-Feb;(1):40–3 (Eng. Abstr.) (Rus)

[Experience with the use of speleotherapy on persons suffering from bronchial asthma and chronic bronchitis subjected to the effect of ionizing radiation] Torokhtin MD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar-Apr; (2):39–41 (Rus)

[Body function and the biological aging of those working under the conditions of a warming microclimate] Shleifman FM, et al. **Vrach Delo** 1990 Mar;(3):111–3 (Eng. Abstr.) (Rus)

[The significance of an alpine climate in the combined treatment of occupational diseases] Tolmach DV, et al. **Vrach Delo** 1989 Oct;(10):109–11 (Eng. Abstr.) (Rus)

[Climate and meteorological factors in Crikvenica] Jurdana S, et al. **Reumatizam** 1988;35(1–6):91–3 (Eng. Abstr.) (Scr)

CLINDAMYCIN

Tetracyclines, macrolides, lincosamides & chloramphenicol. Ruiz NM, et al. **Bol Asoc Med P R** 1990 Jan;82(1):8–17 (23 ref.)

ADMINISTRATION & DOSAGE

Preoperative clindamycin treatment and vaginal drainage in hysterectomy. Munck AM, et al. **Acta Obstet Gynecol Scand** 1989;68(3):241–5

Comparison of parenteral ciprofloxacin with clindamycin-gentamicin in the treatment of pelvic infection. Apuzzio JJ, et al. **Am J Med** 1989 Nov 30; 87(5A):148S–151S

Combination effects of ciprofloxacin, clindamycin, and metronidazole intravenously in volunteers. Deppermann KM, et al. **Am J Med** 1989 Nov 30;87(5A):46S–48S

Clindamycin dosage scheduling for acute pelvic infection [letter] Chatwani A, et al. **Am J Obstet Gynecol** 1990 Jul; 163(1 Pt 1):240

Evaluation of liposome-encapsulated clindamycin in Staphylococcus aureus endophthalmitis. Rao VS, et al. **Int Ophthalmol** 1989 May;13(3):181–5

Prophylactic antibiotics in trauma: the hazards of underdosing. Ericsson CD, et al. **J Trauma** 1989 Oct; 29(10):1356–61

Randomized trial of combination antibiotic therapy in patients with hematological disorders. Hanshin Study Group of Hematopoietic Disorders and Infection. Takemoto Y, et al. **Jpn J Antibiot** 1990 Jan;43(1):63–9

A randomized comparison of gentamicin-clindamycin and cefoxitin-doxycycline in the treatment of acute pelvic inflammatory disease. Walters MD, et al. **Obstet Gynecol** 1990 May;75(5):867–72

[Clinical evaluation of a combination therapy with aztreonam and clindamycin for severe infections in leukemia and related disorders] Tsuda S, et al. **Jpn J Antibiot** 1989 Sep; 42(9):1926–37 (Eng. Abstr.) (Jpn)

[Comparison of a combination of clindamycin/gentamycin with metronidazole/gentamycin in surgery of the head and neck] Gašparović S, et al. **Chir Maxillofac Plast** 1988; 18(1–3):15–20 (Eng. Abstr.) (Scr)

ADVERSE EFFECTS

Doxorubicin hypersensitivity and clindamycin [letter] Arena FP, et al. **Ann Intern Med** 1990 Jan 15;112(2):150

Clindamycin and dentists [letter] Rippon R. **Br Dent J** 1990 May 5;168(9):348

Clindamycin and dentists [letter] Williams M. **Lancet** 1990 Mar 31;335(8692):787

ANALOGS & DERIVATIVES

Bacterial vaginosis: treatment with topical intravaginal clindamycin phosphate. Livengood CH 3d, et al. **Obstet Gynecol** 1990 Jul;76(1):118–23

METABOLISM

Uptake of antibiotics by Plasmodium falciparum in culture. Geary TG, et al. **Am J Trop Med Hyg** 1988 May; 38(3):466–9

PHARMACOKINETICS

Penetration of clindamycin, cefoxitin, and metronidazole into pelvic peritoneal fluid of women undergoing diagnostic laparoscopy [published erratum appears in Antimicrob Agents Chemother 1990 Jun;34(6):1301] Berger SA, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):376–7

Guinea pig model for antibiotic transport across gastric mucosa: inhibitory tissue concentrations of clindamycin against Helicobacter pylori (Campylobacter pylori) following two separate dose regimens. Westblom TU, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):25–8

Absorption kinetics of topical clindamycin preparations. Eller MG, et al. **Biopharm Drug Dispos** 1989 Sep-Oct; 10(5):505–12

Bioavailability of clindamycin during peritoneal dialysis. Eng RH, et al. **Chemotherapy** 1990;36(2):85–90

Penetration of clindamycin and metronidazole into the appendix and peritoneal fluid in children. Nagar H, et al. **Eur J Clin Pharmacol** 1989;37(2):209–10

Clindamycin secretion across human gastric mucosa [letter] Duriex DE, et al. **J Clin Gastroenterol** 1989 Oct;11(5):601–2

Systemic absorption of clindamycin following intravaginal application of clindamycin phosphate 1% cream. Borin MT. **J Clin Pharmacol** 1990 Jan;30(1):33–8

PHARMACOLOGY

In vitro synergy of clindamycin and aminoglycosides against Chlamydia trachomatis. Pearlman MD, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1399–401

Clindamycin and tetracycline as immunomodulating agents: an in vivo study. Corrales I, et al. **Drugs Exp Clin Res** 1989;15(9):409–15

Reduction of wall degradability of clindamycin-treated staphylococci within macrophages. Wecke J, et al. **Infect Immun** 1990 Jan;58(1):197–204

Penicillin and clindamycin alter some group A streptococcal products. Figueiredo AM, et al. **Int J Med Microbiol** 1989 Oct;271(4):475–80

Influence of metronidazole, chloramphenicol, clindamycin and penicillin G on growth and neuraminidase activity of Bacteroides fragilis. Ferreira MC, et al. **J Antimicrob Chemother** 1989 Aug;24(2):157–64

Clindamycin effect on glycocalyx production in experimental viridans streptococcal endocarditis. Dall L, et al. **J Infect Dis** 1990 Jun;161(6):1221–4

Antibiotic inhibition of bacterially induced fetal membrane weakening. McGregor JA, et al. **Obstet Gynecol** 1990 Jul; 76(1):124–8

Tn5030: a conjugative transposon conferring clindamycin resistance in Bacteroides species. Halula M, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 2:S235–42

Effect of antimalarial drugs and of clindamycin on erythrocyte metabolism. A review. Barraviera B. **Rev Inst Med Trop Sao Paulo** 1989 May-Jun;31(3):200–5 (54 ref.)

[Effect of treatment with clindamycin, erythromycin, rifamycin or gentamicin on the ingestion capacity of peritoneal macrophages in mice] Amurrio C, et al. **Pathol Biol (Paris)** 1990 Jan;38(1):13–8 (Eng. Abstr.) (Fre)

[Susceptibility of clinically important Bacteroides species against enoxacin-metronidazole and enoxacin-clindamycin combinations] Heizmann WR, et al. **Infection** 1989;17 Suppl 1:S11–3 (Eng. Abstr.) (Ger)

THERAPEUTIC USE

Successful therapy for Toxoplasma gondii myocarditis in acquired immunodeficiency syndrome. Grange F, et al. **Am Heart J** 1990 Aug;120(2):443–4

Clindamycin therapy for Chlamydia trachomatis in women. Campbell WF, et al. **Am J Obstet Gynecol** 1990 Feb; 162(2):343–7

Bacterial vaginosis: diagnostic and pathogenetic findings during topical clindamycin therapy. Livengood CH 3d, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):515–20

Clostridium difficile diarrhea and colonization after treatment with abdominal infection regimens containing clindamycin or metronidazole. Gerding DN, et al. **Am J Surg** 1990 Feb; 159(2):212–7

Combined topical and systemic antibiotic prophylaxis in acute appendicitis. Seco JL, et al. **Am J Surg** 1990 Feb; 159(2):226–30

Comparative evaluation of cefazolin and clindamycin in the treatment of experimental Staphylococcus aureus osteomyelitis in rabbits. Mader JT, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1760–4

Outpatient management of uncomplicated lower-extremity infections in diabetic patients. Lipsky BA, et al. **Arch Intern Med** 1990 Apr;150(4):790–7

'Antibiotic side effects' [letter; comment] Shaw N. **Br Dent J** 1990 May 5;168(9):349 Comment on: Br Dent J 1990 Apr 7;168(7):277.

Clindamycin versus ampicillin in the treatment of odontogenic infections. Mangundjaja S, et al. **Clin Ther** 1990 May-Jun;12(3):242–9

Clindamycin and cloxacillin compared in the treatment of skin and soft-tissue infections. Pusponegoro EH, et al. **Clin Ther** 1990 May-Jun;12(3):236–41

Cost analysis of two clindamycin dosing regimens. Chin A, et al. **DICP** 1989 Dec;23(12):980–3

Activity of gamma interferon in combination with pyrimethamine or clindamycin in treatment of murine toxoplasmosis. Israelski D, et al. **Eur J Clin Microbiol Infect Dis** 1990 May;9(5):358–60

A clinical trial comparing the safety and efficacy of a topical erythromycin-zinc formulation with a topical clindamycin formulation. Schachner L, et al. **J Am Acad Dermatol** 1990 Mar;22(3):489–95

Comparison of the safety and efficacy of parenteral ticarcillin/clavulanate and clindamycin/gentamicin in serious intra-abdominal infections. Fink MP, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:147–56

Clindamycin in malaria treatment. Kremsner PG. **J Antimicrob Chemother** 1990 Jan;25(1):9–14 (39 ref.)

Clindamycin in the treatment of an outbreak of streptococcal pharyngitis in a kibbutz due to beta-lactamase producing organisms. Raz R, et al. **J Chemother** 1990 Jun;2(3):182–4

Comparative evaluation of clindamycin versus clindamycin plus tobramycin in the treatment of acute pelvic inflammatory disease. Gall SA, et al. **Obstet Gynecol** 1990 Feb;75(2):282–6

Microbiologic efficacy of intravaginal clindamycin cream for the treatment of bacterial vaginosis. Hillier S, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):407–13

Oral clindamycin and ciprofloxacin therapy for diabetic foot infections [retracted by Scheife RT. In: Pharmacotherapy 1990;10(4):261] Sesin GP, et al. **Pharmacotherapy** 1990; 10(2):154–6

Pseudofolliculitis barbae. Chu T. **Practitioner** 1989 Mar 8; 233(1464):307–9

Clindamycin and ibuprofen effects on chlamydial salpingitis in mice. Blanco JD, et al. **Sex Transm Dis** 1989 Oct–Dec; 16(4):192–4

Clindamycin/primaquine therapy and secondary prophylaxis against Pneumocystis carinii pneumonia in patients with AIDS. Kay R, et al. **South Med J** 1990 Apr;83(4):403–4

Ampicillin/sulbactam versus clindamycin in the treatment of postpartum endomyometritis. Martens MG, et al. **South Med J** 1990 Apr;83(4):408–13

A comparison of ampicillin plus sulbactam versus clindamycin and gentamicin for treatment of postpartum infection. McGregor JA, et al. **Suppl Int J Gynaecol Obstet** 1989;2:35–9

Clindamycin is effective against Plasmodium falciparum but not against P. vivax in mixed infections. Kremsner PG, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun; 83(3):332–3

[Presumed toxoplasmic chorioretinitis: comparative study of treatment with pyrimethamine and sulfadiazine or clindamycin] Colin J, et al. **J Fr Ophtalmol** 1989; 12(3):161–5 (Eng. Abstr.) (Fre)

[2 cases of severe human babesiosis treated successfully (letter)] Gorenflot A, et al. **Presse Med** 1990 Feb 24; 19(7):335 (Fre)

[Medical treatment of pelvic inflammatory disease. A clinical study on the therapeutic effectiveness of piperacillin + erythromycin and of piperacillin + clindamycin + gentamycin] Sesti F, et al. **Clin Ter** 1990 Jan 15;132(1):41–4 (Eng. Abstr.) (Ita)

[Antibiotic prophylaxis in major surgery of the neck and head] Margarino G, et al. **Minerva Chir** 1989 Nov 30; 44(22):2341–5 (Eng. Abstr.) (Ita)

CLINICAL CLERKSHIP see under EDUCATION, MEDICAL, UNDERGRADUATE

CLINICAL COMPETENCE

Detecting and correcting for rater-induced differences in standardized patient tests of clinical competence. Abrahamowicz M, et al. **Acad Med** 1990 Sep;65(9 Suppl):S25–6

Clinical education: the legacy of Osler revisited. Dauphinee WD. **Acad Med** 1990 Sep;65(9 Suppl):S68–73

The validity of an essay test of clinical judgment. Day SC, et al. **Acad Med** 1990 Sep;65(9 Suppl):S39–40

Using classic and contemporary visual images in clinical teaching. Edwards JC. **Acad Med** 1990 May;65(5):297–8

On standardized patients and clinical skills assessment [editorial] Kassebaum DG. **Acad Med** 1990 May;65(5):307

Predictive validity of a national examination for medical graduates in the People's Republic of China. Liu BX, et al. **Acad Med** 1990 Aug;65(8):505–11

Order effects in standardized patient examinations. Lloyd JS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S51–2

Humanism in medical education: a study of educational needs perceived by trainees of three Canadian schools. Maheux B, et al. **Acad Med** 1990 Jan;65(1):41–5

The assessment of clinical skills/competence/performance. Miller GE. **Acad Med** 1990 Sep;65(9 Suppl):S63–7

The scoring and reproducibility of an essay test of clinical judgment. Norcini JJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S41–2

Comparison of "fact-recall" with "higher-order" questions in multiple-choice examinations as predictors of clinical performance of medical students. Peitzman SJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S59–60

A methodological framework for the design of research on the evaluation of residents. Risucci DA, et al. **Acad Med** 1990 Jan;65(1):36–41

Evaluating the clinical skills of foreign medical school graduates participating in an internship preparation program. Rothman AI, et al. **Acad Med** 1990 Jun; 65(6):391–5

Evaluating clinical teachers for promotion. Rothman AI, et al. **Acad Med** 1989 Dec;64(12):774–5

A comparison of two methods for facilitating clinical data integration by medical students. Russell IJ, et al. **Acad Med** 1990 May;65(5):333–40

Student fatigue as a variable affecting performance in an objective structured clinical examination. Rutala PJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S53–4

Performances of U.S. osteopathic and Canadian medical school graduates on the American Board of Internal Medicine Certifying Examinations, 1984–1988. Shea JA, et al. **Acad Med** 1990 Aug;65(8):523–6

An assessment of an oral examination format for evaluating clinical competence in emergency medicine. Solomon DJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S43–4

An assessment of the clinical skills of fourth-year students at four New England medical schools. Stillman PL, et al. **Acad Med** 1990 May;65(5):320–6

A comparison of free-response and cued-response diagnosis scores in an evaluation of clinical competence utilizing standardized patients. Stillman PL, et al. **Acad Med** 1990 Sep;65(9 Suppl):S27–8

Results of a survey on the use of standardized patients to teach and evaluate clinical skills. Stillman PL, et al. **Acad Med** 1990 May;65(5):288–92

Generalizability of standardized patients' satisfaction ratings of their clinical encounter with fourth-year medical students. Vu NV, et al. **Acad Med** 1990 Sep;65(9 Suppl):S29–30

Psychological interpretation of labels used to evaluate third-year medical students. Xakellis GC, et al. **Acad Med** 1990 Sep;65(9 Suppl):S57–8

The experience of the person ventilating the lungs does influence postoperative nausea and vomiting. Hovorka J, et al. **Acta Anaesthesiol Scand** 1990 Apr;34(3):203–5

Monitoring the competence of dynamic psychotherapists: a practical demonstration. Svartberg OM. **Acta Psychiatr Scand** 1989 Sep;80(3):292–6

Righteousness in medicine. Who really wins? Cockerell CJ. **Am J Dermatopathol** 1990 Feb;12(1):103

Ten years of graduates evaluate a pediatric residency program. Taras HL, et al. **Am J Dis Child** 1990 Oct; 144(10):1102–5

Mastery in clinical occupational therapy. DePoy E. **Am J Occup Ther** 1990 May;44(5):415–22

Evaluating a Level I fieldwork model for independent living skills. Neistadt ME, et al. **Am J Occup Ther** 1990 Aug; 44(8):692–9

The Level I fieldwork process. Shalik LD. **Am J Occup Ther** 1990 Aug;44(8):700–7

Medical students' knowledge, attitudes, and behavior concerning diet and heart disease. Ammerman A, et al. **Am J Prev Med** 1989 Sep–Oct;5(5):271–8

Transformations in self-understanding in surgeons whose treatment efforts were not successful. Gerber LA. **Am J Psychother** 1990 Jan;44(1):75–84

Reliability and validity of the objective structured clinical examination in assessing surgical residents. Cohen R, et al. **Am J Surg** 1990 Sep;160(3):302–5

My constant quest to maintain my procedural skills [letter; comment] Kaplan H. **Am J Surg** 1990 Mar;159(3):359 Comment on: Am J Surg 1989 Mar;157(3):275.

Surgery interns' experience with surgical procedures as medical students. Nakayama DK, et al. **Am J Surg** 1990 Mar;159(3):341–3; discussion 344

A model for the objective assessment of clinical training programs: the initial application to two pulmonary medicine fellowship programs. Badesch DB, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1136–42

Iatrogenic tibial pseudoaneurysm following below-knee amputation. Bunt TJ, et al. **Am Surg** 1990 Sep;56(9):546–7

Procedural skills of practicing nephrologists. A national survey of 700 members of the American College of Physicians. Tape TG, et al. **Ann Intern Med** 1990 Sep 1; 113(5):392–7

Procedural skills of the general internist. A survey of 2500 physicians. Wigton RS, et al. **Ann Intern Med** 1989 Dec 15;111(12):1023–34

Procedural skills of practicing gastroenterologists. A national survey of 700 members of the American College of Physicians. Wigton RS, et al. **Ann Intern Med** 1990 Oct 1;113(7):540–6

Junior medical staff and the assessment of trauma. Wood PR, et al. **Ann R Coll Surg Engl** 1990 May;72(3):196–8

Electrocardiograph interpretation by junior doctors. Morrison WG, et al. **Arch Emerg Med** 1990 Jun;7(2):108–10

Anaesthetics: a year out [letter] Wilson P. **Arch Emerg Med** 1989 Dec;6(4):285

The knowledge base of certified internists. Relationships to training, practice type, and other physician characteristics. Carline JD, et al. **Arch Intern Med** 1989 Oct;149(10):2311–3

Reliability and validity of an objective structured clinical examination for assessing the clinical performance of residents. Petrusa ER, et al. **Arch Intern Med** 1990 Mar; 150(3):573–7

The rarity—an acceptable stimulant. Colquhoun JP. **Aust Fam Physician** 1989 Sep;18(9):1158–9

Analysis of the RACGP Fellowship examination results. Spike NA, et al. **Aust Fam Physician** 1990 May;19(5):767–9, 771–5

Training in surgery. Dawson JH. **Aust N Z J Surg** 1990 Sep; 60(9):657–60

Resuscitation: experience without feedback increases confidence but not skill. Marteau TM, et al. **BMJ** 1990 Mar 31;300(6728):849–50

Maintenance of competence in radiology. Rankin RN. **Can Assoc Radiol J** 1990 Jun;41(3):121–2

Competencies required for the practice of geriatric medicine as a consultant physician [see comments] Fox RA, et al. **Can Med Assoc J** 1989 Nov 15;141(10):1045–8 Comment in: Can Med Assoc J 1989 Nov 15;141(10):1039.

Robert Still is my favourite patient (and software). Goldman B. **Can Med Assoc J** 1990 Feb 1;142(3):244–6

Let's put the teaching of clinical skills where it belongs [editorial] McSherry J. **Can Med Assoc J** 1990 Feb 15; 142(4):386–7

Serving our patients individually remains basic concept of medicine. Wallace JD. **Can Med Assoc J** 1975 Oct 18; 113(8):770

Certification and recertification. A consumer's view. Glasser MA. **Clin Orthop** 1990 Aug;(257):38–42

Standardized testing of patient management skills. A computer-based method. Volle RL. **Clin Orthop** 1990 Aug; (257):47–51

Expert nurses and expert systems. Research and development issues. Woolery L. **Comput Nurs** 1990 Jan–Feb;8(1):23–8

A comparison of the modified essay question and multiple choice question formats: their relationship to clinical performance. Rabinowitz HK, et al. **Fam Med** 1989 Sep–Oct;21(5):364–7

A study of the ability of physician faculty members to predict resident performance. Taylor C, et al. **Fam Med** 1990 Jul–Aug;22(4):296–8

Inadequacies in the management of diarrhea at the peripheral non-teaching level. Singh T. **Indian J Pediatr** 1990 Jan–Feb;57(1):89–92

The competencies expected of first-line nursing managers—an Australian context. Duffield C. **J Adv Nurs** 1989 Dec;14(12):997–1001

Teaching psychomotor skills in nursing: a randomized control trial. Love B, et al. **J Adv Nurs** 1989 Nov; 14(11):970–5

Clinical competence in hemodynamic monitoring. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. Friesinger GC 2d, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1460–4

Clinical competence in adult echocardiography. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. Popp RL, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1465–8

Clinical competence in percutaneous transluminal coronary angioplasty. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. Ryan TJ, et al. **J Am Coll Cardiol** 1990 Jun; 15(7):1469–74

Breast cancer examination experience of medical students and residents. Kennedy BJ, et al. **J Cancer Educ** 1988;3(4):243–5

Live models for clinical teaching [letter] Ringenberg QS. **J Cancer Educ** 1988;3(2):147

Clinical competence in the performance of fiberoptic laryngoscopy and endotracheal intubation: a study of resident instruction. Johnson C, et al. **J Clin Anesth** 1989; 1(5):344–9

A model for quality assurance in anesthesiology. Vitez TS. **J Clin Anesth** 1990 Jul–Aug;2(4):280–7

Written case simulations: do they predict physicians' behavior? Jones TV, et al. **J Clin Epidemiol** 1990; 43(8):805–15 (93 ref.)

The effectiveness of a leadup activity on performance in an operative preclinic laboratory course. Feil PH, et al. **J Dent Educ** 1989 Oct;53(10):565–8

Standardized patients for the assessment of dental students' clinical skills. Johnson JA, et al. **J Dent Educ** 1990 Jun; 54(6):331–3

Recall by expert medical practitioners and novices as a record of processing attention. Norman GR, et al. **J Exp Psychol [Learn Mem Cogn]** 1989 Nov;15(6):1166–74

On developing competence. Bunch WH. **J Fla Med Assoc** 1989 May;76(5):481–2

Clinical judgment vs cookbook criteria [letter] Snare R. **J Fla Med Assoc** 1989 Jun;76(6):509

Residency training in interviewing skills and the psychosocial domain of medical practice [published erratum appears in J Gen Intern Med 1990 Mar–Apr;5(2):169] Kern DE, et al. **J Gen Intern Med** 1989 Sep–Oct;4(5):421–31

Stapes surgery: implications for training. Moriarty BG. **J Laryngol Otol** 1990 Mar;104(3):203–5

The role of experience in clinical accuracy. Mior SA, et al. **J Manipulative Physiol Ther** 1990 Feb;13(2):68–71

Co-assessment as a unique approach to measuring students' clinical abilities. Anderson E, et al. **J Nurs Educ** 1990 Jan; 29(1):42–3

Needed: a trial of competence [editorial] de Tornyay R. **J Nurs Educ** 1989 Nov;28(9):390

Expanding CCA options for CNMs [editorial] Shah MA. **J Nurse Midwifery** 1989 Nov–Dec;34(6):299–300

Evaluating medical performance in the diagnosis and treatment of occupational health problems: a standardized patient approach. Yassi A, et al. **J Occup Med** 1990 Jul; 32(7):582–5

The head nurse as clinical leader. McClure ML. **J Prof Nurs** 1990 Mar–Apr;6(2):75

Uncovering the experts. Niziolek C, et al. **J Prof Nurs** 1990 Mar–Apr;6(2):68

Expert perinatal practice—making a difference. Poirier J, et al. **J Prof Nurs** 1990 May–Jun;6(3):140, 185

The incorporation of practice into graduate education for public health. Stauffer LD. **J Public Health Policy** 1990 Spring;11(1):16–25

Activity, audit and accountability [editorial] Buckley EG. **J R Coll Gen Pract** 1989 Jan;39(318):3–4

Women's experiences of general practitioner management of miscarriage. Friedman T. **J R Coll Gen Pract** 1989 Nov; 39(328):456–8

Is paediatrics safe in general practitioners' hands? A study in the north of England. Marsh GN, et al. **J R Coll Gen Pract** 1989 Apr;39(321):138–41

The V-word and the four C's [editorial] Bryan CS. **J S C Med Assoc** 1990 Apr;86(4):259–60

Attempting to ensure physician competence. Davis DA, et al. **JAMA** 1990 Apr 18;263(15):2041–2

From the Health Resources and Services Administration. Harmon RG. **JAMA** 1990 Aug 22–29;264(8):945

Influence of clinical knowledge, organizational context, and practice style on transfusion decision making. Implications for practice change strategies. Salem-Schatz SR, et al.

JAMA 1990 Jul 25;264(4):476–83
Suturing techniques of individual surgeons—differences in accuracy and mechanics. Seki S. **Jpn J Surg** 1989 Jul; 19(4):425–31
Informing patients about clinical disagreement [letter; comment] Silverman WA. **Lancet** 1989 Oct 21;2(8669):983 Comment on: Lancet 1989 Sep 23;2(8665):744.
Improving physicians' recognition and treatment of depression in general medical care. Results from a randomized clinical trial. Magruder-Habib K, et al. **Med Care** 1990 Mar;28(3):239–50
The application of basic science concepts to clinical problem-solving. Balla JI, et al. **Med Educ** 1990 Mar; 24(2):137–47
Inquiry: the pedagogical importance of a skill central to clinical practice. Barrows HS. **Med Educ** 1990 Jan;24(1):3–5
Training psychiatrists and family doctors in evaluating interpersonal skills. Des Marchais JE, et al. **Med Educ** 1990 Jul;24(4):376–81
Psychological tests to measure the effects of medical education on students' interpersonal skills. Evans BJ, et al. **Med Educ** 1989 Nov;23(6):492–7
Effects of the vocational training of general practice consultation skills and medical performance. Grol R, et al. **Med Educ** 1989 Nov;23(6):512–21
Assessment of general practice consultations: content validity of a rating scale. Hays RB. **Med Educ** 1990 Mar;24(2):110–6
Teaching psychiatric interview skills to medical students. Lovett LM, et al. **Med Educ** 1990 May;24(3):243–50
A factor analytic study of clinical competence in undergraduate psychiatry. McFarlane AC, et al. **Med Educ** 1989 Sep;23(5):422–8
Clinical inquiry and scientific inquiry. Norman GR, et al. **Med Educ** 1990 Jul;24(4):396–9
Reasoning strategies and the use of biomedical knowledge by medical students. Patel VL, et al. **Med Educ** 1990 Mar; 24(2):129–36
A new method to evaluate clinical performance and critical incidents in anaesthesia: quantification of daily comments by teachers. Rhoton MF. **Med Educ** 1990 May;24(3):280–9
Small-group interactive computer-assisted teaching. Shannon JD. **Med Educ** 1990 Mar;24(2):148–50
Learning within practice. Cox K. **Med J Aust** 1990 Jun 4; 152(11):565–7
Analysis of videotaped consultations to certify competence. Hays RB, et al. **Med J Aust** 1990 Jun 4;152(11):609–11
Teaching the therapeutic value of personality [editorial] Maddocks I. **Med J Aust** 1990 Jan 1;152(1):2–3
Medical information processing skills: guide posts to clinical assessment. Joorabchi B. **Med Teach** 1989;11(3–4):331–7
An assessment of a postgraduate examination of competence in general practice: Part 1—Reliability. Thomson AN. **N Z Med J** 1990 Apr 25;103(888):182–4
Why clinical field study? Pridham KF. **Nurs Outlook** 1990 Jan–Feb;38(1):26–30
Physical assessment skills in undergraduate curricula. Solomon J. **Nurs Outlook** 1990 Jul–Aug;38(4):194–5
A pragmatic researcher responds [letter; comment] Thomas SB. **Nurs Outlook** 1990 May–Jun;38(3):118–9 Comment on: Nurs Outlook 1989 Jul–Aug;37(4):160.
Nurse practitioners: factors affecting role performance. Thibodeau JA, et al. **Nurse Pract** 1989 Dec;14(12):47, 50–2
Teaching clinical thinking. Werner DL. **Optom Vis Sci** 1989 Nov;66(11):788–92
Defining successful performance among pediatric residents. Altmaier EM, et al. **Pediatrics** 1990 Feb;85(2):139–43
The novice versus the experienced clinician: insights into the work of the physical therapist. Jensen GM, et al. **Phys Ther** 1990 May;70(5):314–23
Effect of feedback on learning a vertebral joint mobilization skill. Lee M, et al. **Phys Ther** 1990 Feb;70(2):97–102; discussion 103–4
Effect of station examination item sampling on generalizability of student performance. Stratford PW, et al. **Phys Ther** 1990 Jan;70(1):31–6
Theory: the guide to clinical practice and research. Tammivaara J, et al. **Phys Ther** 1990 Sep;70(9):578–82
Clinical competencies for community health nursing. Kenyon V, et al. **Public Health Nurs** 1990 Mar;7(1):33–9
A study of passage rates: hospital vs. college programs. Foegelle WE, et al. **Radiol Technol** 1990 May–Jun; 61(5):393–5
Development of a procedures laboratory evaluation tool. Key SJ. **Radiol Technol** 1989 Sep–Oct;61(1):57–62
The relationship between task complexity and decision-making consistency. Hughes KK, et al. **Res Nurs Health** 1990 Jun;13(3):189–97
Diagnosing diabetic retinopathy by general practitioners and by a hospital physician. The use of fundus photos. van de Kar W, et al. **Scand J Prim Health Care** 1990 Mar; 8(1):19–23
Detection of endometrial carcinoma: clinical judgement versus histologic examination. Fiorica JV, et al. **South Med J** 1990 Jul;83(7):759–60
Cites role of psychiatrists in impaired physicians program [letter; comment] Scavullo BC. **Va Med** 1989 Aug; 116(8):298, 300 Comment on: Va Med 1989 Jun;116(6):266–9.
Physical diagnosis and the nonexpert physician [letter] Spurlock BW. **West J Med** 1990 Jul;153(1):87
[Work time and quality of the assistant physician in training for specialist (letter)] **Ned Tijdschr Geneeskd** 1989 Oct 7; 133(40):1997–9 **(Dut)**
[Working time and quality of the medical resident in training for specialist (letter)] Leijten JP. **Ned Tijdschr Geneeskd** 1989 Nov 4;133(44):2195–6 **(Dut)**
[Can nearly finished medical students interpret their professional literature?] Stam J, et al. **Ned Tijdschr Geneeskd** 1990 Apr 28;134(17):854–7 (Eng. Abstr.) **(Dut)**
[Should nearly finished medical students be able to interpret the entire professional literature?] Vandenbroucke JP, et al. **Ned Tijdschr Geneeskd** 1990 Apr 28;134(17):843–4 **(Dut)**
[Clinical practice time for and the quality of the medical resident in training as a specialist] van der Meer J. **Ned Tijdschr Geneeskd** 1989 Jul 15;133(28):1385–7 **(Dut)**
[Approaches to cancer] Elomaa I. **Duodecim** 1989; 105(22):1857–9 **(Fin)**
[Comparison of the diagnostic performance of students of the old and new medical curriculum at the Laval University (published erratum appears in Union Med Can 1989 Nov–Dec;118(6):253)] Bordage G, et al. **Union Med Can** 1989 Sep–Oct;118(5):187–8, 191–2, 194–5 (Eng. Abstr.) **(Fre)**
[The physician between the patient and the medical equipment] Aloisi M. **Recenti Prog Med** 1990 Mar; 81(3):166–70 (0 ref.) **(Ita)**
[Methods of developing qualification tests in the evaluation of skills of physicians-therapeutists] Murav'ev MV, et al. **Sov Med** 1990;(6):59–62 **(Rus)**
[Methods of pedagogical assessment of qualifications in postgraduate medical education] Murav'ev MV, et al. **Sov Zdravookhr** 1989;(12):43–8 (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

Suspended doctors: HC(90)9 or the GMC? Brahams D. **Lancet** 1990 May 5;335(8697):1089–90
National Practitioner Data Bank. Weber RD. **Mich Med** 1990 Apr;89(4):24–6
[Legal requirements of continuing education and control] Weissauer W. **Chirurg** 1990 Jan;61(1):suppl 1–3 **(Ger)**
[Behavior in cases of medical damage] Ratzel R. **Gynakologe** 1989 Dec;22(6):406–10 **(Ger)**
[Medical graduate and basic education in Austria: emergency or surplus? Objective evaluation or bureaucratic regimentation?] Barolin GS. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):455–60 (Eng. Abstr.) **(Ger)**

STANDARDS

Goal attainment scaling as a method of clinical service evaluation. Ottenbacher KJ, et al. **Am J Occup Ther** 1990 Jun;44(6):519–25
The patient-therapist relationship in occupational therapy: understanding visions and images. Peloquin SM. **Am J Occup Ther** 1990 Jan;44(1):13–21
Structured single-observer methods of evaluation for the assessment of ward performance on the surgical clerkship. Dunnington G, et al. **Am J Surg** 1990 Apr;159(4):423–6
Good and bad clinicians: supervisors' judgements of trainees' competence. Fordham AS, et al. **Br J Clin Psychol** 1990 Feb;29 (Pt 1):113–4
MRCPsych Parts One and Two: the clinical examinations. Holden NL. **Br J Hosp Med** 1990 Jun;43(6):466–8
MCQs in general internal medicine. Lehner P. **Br J Hosp Med** 1990 Jun;43(6):464–5
Clinical competence in adult echocardiography. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. **Circulation** 1990 Jun; 81(6):2032–5
Clinical competence in hemodynamic monitoring. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiography. **Circulation** 1990 Jun;81(6):2036–40
Clinical competence in percutaneous transluminal coronary angioplasty. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. **Circulation** 1990 Jun;81(6):2041–6
Teaching and training in obstetrics and gynaecology. Pecorari D. **Clin Exp Obstet Gynecol** 1990;17(1):1–4
Computer based evaluation of clinical skills. Schwartz MW. **Indian J Pediatr** 1989 Jan–Feb;56(1):55–61
Teaching technical skills in pediatrics. Selbst SM, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):35–54
Professional responsibility in maternity care: role of medical audit. Bhatt RV. **Int J Gynaecol Obstet** 1989 Sep; 30(1):47–50
What medical graduates need to know but don't learn in medical school. Relman AS. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:49S–53S
Defining and assessing knowledge and skill outcomes in undergraduate pediatric dentistry education. Hanes CM. **J Dent Educ** 1990 Mar;54(3):181–3
Establiahing a quality improvement process for identification of psychosocial problems in a primary care practice. Bingham RL, et al. **J Gen Intern Med** 1990 Jul–Aug; 5(4):342–6
The identification of psychiatric illness by primary care physicians: the effect of patient gender. Cleary PD, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):355–60
An evaluation of residency training in interviewing skills and the psychosocial domain of medical practice. Roter DL, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):347–54
Practice guidelines to reduce testing in the hospital. Wachtel TJ, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):335–41
Knowledge and competency in medicine. Nix JE. **J Miss State Med Assoc** 1990 Jul;31(7):226–7
Comparison of expected and evidenced baccalaureate degree competencies. Joyce-Nagata B, et al. **J Nurs Educ** 1989 Sep;28(7):314–21
On competence and ethicality in psychodiagnostic assessment. Weiner IB. **J Pers Assess** 1989 Winter; 53(4):827–31
Follow-up of Hadassah Nursing School's first seven graduate classes. Ziv L, et al. **J Prof Nurs** 1990 Jul–Aug;6(4):229–34
Colorado Society of Clinical Specialists in Psychiatric Nursing. Ethical guidelines for competence. **J Psychosoc Nurs Ment Health Serv** 1990 May;28(5):38–9
Health Care Quality Improvement Act of 1986: what physicians need to know about the Act. Hay CR. **Kans Med** 1989 Sep;90(9):239–40, 242, 244
Examining examiners [letter; comment] **Lancet** 1990 Mar 24; 335(8691):730–1 Comment on: Lancet 1990 Feb 24;335(8687):443–5.
Examining the examiners [letter; comment] Hatch DJ. **Lancet** 1990 Apr 14;335(8694):916 Comment on: Lancet 1990 Feb 24;335(8687):443–5.
Postgraduate training in Italy [letter] Pedrazzoli P. **Lancet** 1990 Jul 7;336(8706):56
How accurate is computer-aided diagnosis? [see comments] Sutton GC. **Lancet** 1989 Oct 14;2(8668):905–8 Comment in: Lancet 1989 Nov 4;2(8671):1102–3.
Reliability and learning from the objective structured clinical examination. Roberts J, et al. **Med Educ** 1990 May; 24(3):219–23
Teaching clinical decision analysis: implications for nutritional assessment management. Balla JI. **Med J Aust** 1989 Sep 18;151 Suppl:S32–6
Enabling physicians to be nutrition educators and counsellors. Guthrie HA, et al. **Med J Aust** 1989 Sep 18;151 Suppl:S29–32
Skin cancers: diagnostic ability compared with diagnostic accuracy [letter] Rivers JK, et al. **Med J Aust** 1989 Oct 2;151(7):421–2
Clinical performance in a field exercise for the National Disaster Medical System. Holohan TV, et al. **Milit Med** 1989 Dec;154(12):587–9
Cardiopulmonary resuscitation: qualifications and performance of housestaff and trained internists. Donofrio MT, et al. **Mt Sinai J Med** 1989 Sep;56(4):279–84
A standard for ethics committees [letter] [see comments] Leslie PN, et al. **N Z Med J** 1989 Nov 22;102(880):618 Comment in: N Z Med J 1990 Feb 14;103(883):50.
Conduct unbecoming a consultant [letter] Smith L. **N Z Med J** 1990 Mar 14;103(885):108
An assessment of a postgraduate examination of competence in general practice: Part 2: Validity. Thomson AN. **N Z Med J** 1990 May 9;103(889):217–9
Case specificity of performance with simulated patients. Thomson AN. **N Z Med J** 1990 Aug 8;103(895):372–4
Diagnosis as a skill: a clinical perspective. Parrino TA, et al. **Perspect Biol Med** 1989 Autumn;33(1):18–44 (160 ref.)
The relation of medical problem solving and therapeutic errors to disease categories. Weinberg NS. **QRB** 1989 Sep; 15(9):266–72
Pleural effusion: comparison of clinical judgment and Light's criteria in determining the cause. Scheurich JW, et al. **South Med J** 1989 Dec;82(12):1487–91
Ratings of surgical residents by self, supervisors and peers. Risucci DA, et al. **Surg Gynecol Obstet** 1989 Dec; 169(6):519–26
Zero operative mortality rate in 109 consecutive elective aortic operations performed by residents. Sedwitz MM, et al. **Surg Gynecol Obstet** 1990 May;170(5):385–9
[Methods of the evaluation of clinical thinking of a physician-therapist] Golovskol BV, et al. **Klin Med (Mosk)** 1989 Nov;67(11):136–7 **(Rus)**
[Teaching physician's skills at the Chair of internal medicine] Shedov VV, et al. **Klin Med (Mosk)** 1989 Aug;67(8):136–40 **(Rus)**
[Development of clinical thinking of a subintern on the topic "Gastroenterology in children"] Druzhinina EI. **Pediatriia** 1990;(1):89–91 **(Rus)**
[Practical activities of a pediatrician and the tasks of postgraduate training] Tarasova TV. **Pediatriia** 1990; (1):82–5 **(Rus)**
[Acquiring practical skills by subinterns in the early detection and prevention of tuberculosis] Fomicheva NI, et al. **Probl Tuberk** 1990;(1):19–20 (Eng. Abstr.) **(Rus)**
[The state examination in internal diseases at medical schools] Mikhailov AA. **Sov Med** 1990;(3):43–6 **(Rus)**
[The certification examination and its role in assessing the level of professional qualification of the therapist] Murav'ev MV, et al. **Ter Arkh** 1989;61(9):134–5 **(Rus)**
[Improvement in the clinical training of students at medical institutes] Shchulipenko IM. **Vrach Delo** 1989 Sep;(9):117–9 **(Rus)**

STATISTICS & NUMERICAL DATA

Are two (inexperienced) heads better than one (experienced) head? Averaging house officers' prognostic judgments for critically ill patients. Poses RM, et al. **Arch Intern Med** 1990 Sep;150(9):1874–8
Use of an outpatient medical record audit to achieve educational objectives: changes in residents' performances

over six years. Kern DE, et al. **J Gen Intern Med** 1990 May–Jun;5(3):218–24
Evaluating evaluation: assessment of the American Board of Internal Medicine Resident Evaluation Form. Thompson WG, et al. **J Gen Intern Med** 1990 May–Jun;5(3):214–7

CLINICAL ENGINEERING see **BIOMEDICAL ENGINEERING**

CLINICAL EQUIVALENCY see **THERAPEUTIC EQUIVALENCY**

CLINICAL INFORMATICS see **MEDICAL INFORMATICS**

CLINICAL INVESTIGATORS see **RESEARCH PERSONNEL**

CLINICAL LABORATORY INFORMATION SYSTEMS see under **INFORMATION SYSTEMS**

CLINICAL MARKERS see **BIOLOGICAL MARKERS**

CLINICAL MEDICINE

Laboratory medicine—from the bench to the bedside [editorial] Han P, et al. **Ann Acad Med Singapore** 1989 Jul; 18(4):337–8
Pocket programmable computers in clinical practice [letter; comment] Ryan MF, et al. **BMJ** 1990 Apr 7; 300(6729):940–1 Comment on: BMJ 1990 Feb 24;300(6723):538–9.
Enormous challenge, enormous promise: integrating molecular biology into clinical medicine. Spurgeon D. **Can Med Assoc J** 1990 Jun 1;142(11):1304–8
Research and practice: a delicate partnership [editorial] Warren DH. **J Am Optom Assoc** 1990 Jan;61(1):8–10
The social position and internal organization of the medical profession in the Third World: the case of Singapore. Quah SR. **J Health Soc Behav** 1989 Dec;30(4):450–66 (54 ref.)
The Journal of Laboratory and Clinical Medicine: the first decade, 1915–1924 [editorial] Daniel TM. **J Lab Clin Med** 1990 Feb;115(2):139–40
Clinical computing systems: their slow introduction. Young DW. **Postgrad Med J** 1990 May;66(775):333–5
Medicine in Budapest. Schiff AF. **South Med J** 1990 Mar; 83(3):313–4
Presentation of the George M. Kober Medal to Oscar D. Ratnoff. Harris JW. **Trans Assoc Am Physicians** 1988; 101:cxxxiv–cliv
Acceptance of the George M. Kober Medal. Ratnoff OD. **Trans Assoc Am Physicians** 1988;101:clv–clix
The tacit dimension of clinical judgment. Goldman GM. **Yale J Biol Med** 1990 Jan–Feb;63(1):47–61
[Natural science and clinical research (editorial)] Frahm J. **Radiologe** 1989 Oct;29(10):483–5 **(Ger)**
[The value of modern biology for the clinical practice of medicine. Symposium of the Swiss Academy of Medical Sciences. 14–15 September 1989, Basel. Abstracts] **Schweiz Med Wochenschr** 1989 Nov 25;119(47):1673–94 **(Ger)**
[Integral practice of medicine] Gutiérrez–Trujillo G. **Gac Med Mex** 1989 Jan–Feb;125(1–2):55–60 **(Spa)**
[Clinical methods of general medicine] Rudebeck CE. **Lakartidningen** 1989 Dec 13;86(50):4451–6 **(Swe)**

ECONOMICS

Medical Research Council's plans [letter; comment] [see comments] Rees DA. **Lancet** 1989 Nov 4;2(8671):1102 Comment on: Lancet 1989 Oct 14;2(8668):900. Comment in: Lancet 1989 Dec 23–30;2(8678–8679):1529. Comment in: Lancet 1990 Jan 13;335(8681):116.

EDUCATION

Where are the clinical role models? Greganti MA. **Arch Intern Med** 1990 Feb;150(2):259–61
Education for clinical science: experience in Australia and England. Dudley HA. **Aust N Z J Surg** 1989 Dec; 59(12):909–12
Academic surgery and the Bachelor of Medical Science degree [editorial] Ludbrook J. **Aust N Z J Surg** 1989 Dec; 59(12):907–8
An improved course in clinical anatomy for surgical residents. Osuch JR, et al. **Curr Surg** 1990 Mar–Apr; 47(2):98–104
A first-year medical school pilot program for early clinical exposure. Nathanson L, et al. **J Cancer Educ** 1987; 2(2):107–11
Is it worth it? A look at the costs and benefits of an OSCE for second-year medical students. Frye AW, et al. **Med Teach** 1989;11(3–4):291–3
Insights into some aspects of clinical education—I. Clinical practice. Balla JI. **Postgrad Med J** 1990 Mar;66(773):212–7
Insights into some aspects of clinical education—II. A theory for clinical education. Balla JI. **Postgrad Med J** 1990 Apr; 66(774):297–301
Three ways of knowing in clinical medicine. Fletcher RH. **South Med J** 1990 Mar;83(3):308–12
Application of a WHO protocol on medical therapy for oncologic pain in an internal medicine hospital. Goisis A, et al. **Tumori** 1989 Oct 31;75(5):470–2
[Post-education in clinical problems of narcotics abuse] **Fauske S. Tidsskr Nor Laegeforen** 1990 Mar 20;110(8):973–5 (Eng. Abstr.) **(Nor)**
[Evolution of clinical teaching at the medical college of Lisboa (I)] da Costa JC. **Acta Med Port** 1990 Mar–Apr; 3(2):109–14 (Eng. Abstr.) **(Por)**

HISTORY

French influence on the development of medicine in Louisiana. Duffy J. **Biomed Pharmacother** 1990; 44(3):147–52
The founding of the Journal of Laboratory and Clinical Medicine, October 1, 1915. Daniel TM. **J Lab Clin Med** 1990 Jan;115(1):137–8
The seventy-fifth anniversary of the Journal of Laboratory and Clinical Medicine [editorial] Daniel TM. **J Lab Clin Med** 1990 Jan;115(1):1–2
Highlights of the Journal of Laboratory and Clinical Medicine, 1955 through 1964 [editorial] Daughaday WH. **J Lab Clin Med** 1990 Jun;115(6):649–51
My first 50 years at Columbia Hospital [editorial] Pohle HW. **Wis Med J** 1989 Nov;88(11):14–5
[Eulogy to Felix–Pierre Merklen (1901–1988)] Lemaire A. **Bull Acad Natl Med** 1990 Jan;174(1):87–93 **(Fre)**
[Centennial of G. A. Zakhar'in's "Clinical Lectures"] Shul'tsev GP, et al. **Klin Med (Mosk)** 1989 Sep;67(9):142–6 **(Rus)**

MANPOWER

Relatively few clinicians in medical research in Australia: a problem? [letter] Aylward P, et al. **Aust N Z J Med** 1989 Oct;19(5):513–4

METHODS

Biocare: biotechnology in the clinical practice of medicine. Osband ME, et al. **Clin Res** 1990 Jan;38(1):5–9
Plasma catecholamines: laboratory aspects. Nyyssönen K, et al. **Crit Rev Clin Lab Sci** 1989;27(3):211–36 (120 ref.)

ORGANIZATION & ADMINISTRATION

Clinical directorates [letter; comment] Keen H. **BMJ** 1990 Apr 7;300(6729):945–6 Comment on: BMJ 1990 Feb 24;300(6723):488.

STANDARDS

'Cookbook' medicine. A legal perspective. Kapp MB. **Arch Intern Med** 1990 Mar;150(3):496–500
Do practice guidelines guide practice? [letter] Todd JS. **N Engl J Med** 1990 Jun 21;322(25):1822–3
Medicine abroad: II. Glastnost in Moscow, Tbilisi, Baku. Hollowell JW. **Va Med** 1990 Feb;117:60–2
Medicine abroad: I. Hospital #3 in Leningrad. Smith RH. **Va Med** 1990 Feb;117:59–60
[Significance of philosophical aspects of the normal and pathologic state in medical practice] Petlenko VP. **Vestn Khir** 1989 Dec;144(12):3–6 (Eng. Abstr.) **(Rus)**

TRENDS

Change and response to change [editorial] Fulginiti VA. **Am J Dis Child** 1990 Jan;144(1):31
Discovery, recruitment, and public relations—some thoughts on the role and the future of clinical investigation in Canada. Spence MW. **Clin Invest Med** 1990 Apr;13(2):92–7
The vanishing lag from precept to practice. Roth CA, et al. **J Lab Clin Med** 1990 Jun;115(6):656–9
Legislated clinical medicine [editorial] **Lancet** 1990 Apr 28; 335(8696):1004–6 (16 ref.)
[Clinico-anatomical trends at the present stage of the development of medicine] Sarkisov DS. **Klin Med (Mosk)** 1990 Mar;68(3):3–7 **(Rus)**

CLINICAL NURSE SPECIALISTS see **NURSE CLINICIANS**

CLINICAL NURSING RESEARCH see under **NURSING RESEARCH**

CLINICAL PATHOLOGY see **PATHOLOGY, CLINICAL**

CLINICAL PHARMACOLOGY see **PHARMACOLOGY, CLINICAL**

CLINICAL PHARMACY SERVICE see **PHARMACY SERVICE, HOSPITAL**

CLINICAL PRACTICE VARIATIONS see **PHYSICIAN'S PRACTICE PATTERNS**

CLINICAL PROTOCOLS

see related
EPIDEMIOLOGIC METHODS

Proposal for a plan of treatment of congenital dislocation of the hip (Belgian Association of Pediatric Orthopaedics). Fabry G, et al. **Acta Orthop Belg** 1990;56(1 (Pt A)):191–3
Appropriate public health responses to clusters: the art of being responsibly responsive. Bender AP, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S48–52
A public health response to cancer clusters in Missouri. Devier JR, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S23–31
Alternating and intermittent regimens of zidovudine (3'-azido-3'-deoxythymidine) and dideoxycytidine (2',3'-dideoxycytidine) in the treatment of patients with acquired immunodeficiency syndrome (AIDS) and AIDS-related complex. Skowron G, et al. **Am J Med** 1990 May 21;88(5B):20S–23S (11 ref.)
Clinical management of the fetus with markedly diminished umbilical artery end-diastolic flow. Divon MY, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1523–7
Progressive facial paralysis. A management dilemma [letter] **Am J Otol** 1989 Jul;10(4):330–6
Criteria for measurement of dehydration [letter; comment] Poole SR. **Ann Emerg Med** 1990 Jun;19(6):730–1 Comment on: Ann Emerg Med 1989 Jul;18(7):755–7.
Practice guidelines: a new reality in medicine. I. Recent developments. Woolf SH. **Arch Intern Med** 1990 Sep; 150(9):1811–8 (78 ref.)
Management of insulin dependent diabetes. Cohen M. **Aust Fam Physician** 1990 Aug;19(8):1201, 1205–6, 1209–14
A systematic approach to diabetes care. Copeman RC. **Aust Fam Physician** 1990 Aug;19(8):1175–6, 1180–5
Identification of high risk and low risk. Hall MH. **Baillieres Clin Obstet Gynaecol** 1990 Mar;4(1):65–76
Routine testing and prophylaxis. Terry PB. **Baillieres Clin Obstet Gynaecol** 1990 Mar;4(1):25–43 (73 ref.)
Organising clinical research: 2. Writing the protocol. Vickers MD. **Br J Clin Pract** 1989 Feb;43(2):49–51
Anaesthesia and medium-chain acyl CoA dehydrogenase deficiency [letter] Vernon JM, et al. **Br J Hosp Med** 1990 May;43(5):328
Fetal surveillance—update. Druzin ML. **Bull N Y Acad Med** 1990 May–Jun;66(3):246–54
The challenge of geriatric hip fractures. Zuckerman JD, et al. **Bull N Y Acad Med** 1990 May–Jun;66(3):255–65
Clinical research. Genest J. **Can Med Assoc J** 1990 Sep 1; 143(5):383–7 (16 ref.)
Management of subarachnoid hemorrhage in the critical care unit. Whiting DM, et al. **Cleve Clin J Med** 1989 Nov–Dec; 56(8):775–85 (124 ref.)
Rationale and protocol for postoperative anterior cruciate ligament rehabilitation. Podesta L, et al. **Clin Orthop** 1990 Aug;(257):262–73 (94 ref.)
Assessment of management guidelines. Acute iron ingestion. Klein–Schwartz W, et al. **Clin Pediatr (Phila)** 1990 Jun; 29(6):316–21
Error in Cancer Chemotherapy Protocols [letter] Forni P, et al. **Clin Pharm** 1990 Jan;9(1):14
Iron supplementation during pregnancy—experiences of a randomized trial relying on health service personnel. Hemminki E, et al. **Controlled Clin Trials** 1989 Sep; 10(3):290–8
Geriatric emergency clinical pharmacology. Fox FJ, et al. **Emerg Med Clin North Am** 1990 May;8(2):221–39 (90 ref.)
Laboratory values in the elderly. Are they different? Kelso T. **Emerg Med Clin North Am** 1990 May;8(2):241–54 (21 ref.)
Supervised withdrawal of long-term digoxin therapy. Fair JF. **Fam Pract** 1990 Mar;7(1):56–9
New guidelines for the use of semen donor insemination: 1990. The American Fertility Society. **Fertil Steril** 1990 Mar;53(3 Suppl 1):1S–13S
Clinical guidelines for the use of involuntary outpatient treatment. Geller JL. **Hosp Community Psychiatry** 1990 Jul; 41(7):749–55
Clinical problem solving at grand rounds. Kassirer JP, et al. **Hosp Pract [Off]** 1990 Apr 15;25(4):51, 54–5, 58–9, passim
Will clinical care guidelines cut costs in MN? Koska MT. **Hospitals** 1990 Apr 5;64(7):54
Centralized diagnosis and therapy of tumors of the bone and soft tissues. **Ital J Orthop Traumatol** 1989 Sep;15(3):401–3
Congenital dislocation of the hip. A protocol for early diagnosis. Traina GC. **Ital J Orthop Traumatol** 1989 Sep; 15(3):393–9
Clinical judgment and therapeutic decision making. Hlatky MA, et al. **J Am Coll Cardiol** 1990 Jan;15(1):1–14 (151 ref.)
Guidelines for podiatric services in long-term care facilities. Helfand AE. **J Am Podiatr Med Assoc** 1990 Aug; 80(8):448–50
Compliance of physicians and patients with a consensus protocol for treatment of advanced breast cancer. Porzsolt F, et al. **J Cancer Res Clin Oncol** 1989;115(6):564–70
A protocol for outpatient management of asymptomatic human immunodeficiency infection. Walker M. **J Fla Med Assoc** 1989 Dec;76(12):1037–41
Protocol for replantation and revascularization of digits and limbs. Brantley SK, et al. **J Miss State Med Assoc** 1990 Feb;31(2):33–6
The impact of ambulatory glycemic control on the insulin-dependent diabetic gravida. Martin JN Jr, et al. **J Miss State Med Assoc** 1989 Dec;30(12):395–9
Dyspnea management: "to take into the air my quiet breath". Henteleff PD. **J Palliat Care** 1989 Dec;5(4):52–4
Assessment of a treatment plan for managing acute vascular complications associated with supracondylar fractures of the humerus in children. Clement DA. **J Pediatr Orthop** 1990 Jan–Feb;10(1):97–100
Cloacal exstrophy: individualized management through a staged surgical approach. Stolar CH, et al. **J Pediatr Surg** 1990 May;25(5):505–7

Open pelviperineal trauma. Birolini D, et al. **J Trauma** 1990 Apr;30(4):492–5
The hospital trauma team: a model for trauma management. Deane SA, et al. **J Trauma** 1990 Jul;30(7):806–12
Practice guidelines and practicing medicine. Are they compatible? [see comments] Brook RH. **JAMA** 1989 Dec 1;262(21):3027–30 Comment in: JAMA 1990 Jun 13;263(22):3021–2.
Practice policies: where do they come from? Eddy DM. **JAMA** 1990 Mar 2;263(9):1265, 1269, 1272 passim
Clinical decision making: from theory to practice. Practice policies —what are they? Eddy DM. **JAMA** 1990 Feb 9; 263(6):877–8, 880
Optimization of survey protocols for MRI. McVeigh ER, et al. **Magn Reson Med** 1990 Feb;13(2):177–91
Obstetrician: a protocol system for a family practice clinic. Legler JD, et al. **MD Comput** 1990 Mar–Apr;7(2):114–7
The evolution of clinical policies. Dixon AS. **Med Care** 1990 Mar;28(3):201–20 (113 ref.)
Treatment protocols [letter; comment] Durham G. **N Z Med J** 1990 Jun 13;103(891):279 Comment on: N Z Med J 1990 Mar 28;103(886):138.
Presenting the diagnosis of pseudoseizure. Shen W, et al. **Neurology** 1990 May;40(5):756–9
Treatment and recovery for sexual addicts. Manley G. **Nurse Pract** 1990 Jun;15(6):34, 37–41
Encopresis: developmental, behavioral and physiological considerations for treatment. Sprague–McRae JM. **Nurse Pract** 1990 Jun;15(6):8, 11–8, 21–4 (45 ref.)
Clinical experiences: development of a medical surveillance protocol for hazardous waste workers. Favata EA, et al. **Occup Med** 1990 Jan–Mar;5(1):117–25 (17 ref.)
Evaluation of a protocol for transscleral neodymium: YAG cyclophotocoagulation in one hundred patients. Hampton C, et al. **Ophthalmology** 1990 Jul;97(7):910–7
Medical research in infants and children in the eighties: analysis of rejected protocols. Koren G, et al. **Pediatr Res** 1990 May;27(5):432–5
Aid to the evaluation of therapeutic studies. Reisch JS, et al. **Pediatrics** 1989 Nov;84(5):815–27
Clinical practice guidelines at an HMO: development and implementation in a quality improvement model. Gottlieb LK, et al. **QRB** 1990 Feb;16(2):80–6
Thresholds do not imply acceptability of low quality of care [letter] Rodman MH. **QRB** 1990 Jan;16(1):2
Role of epidemiology in vaccine policy. Begg N, et al. **Vaccine** 1990 Jun;8(3):180–9 (65 ref.)
The provisional normal MSAFP screen. Meier P, et al. **Wis Med J** 1989 Nov;88(11):21–4
Cardio–pulmonary resuscitation in a community hospital. Pohlmann GP. **Wis Med J** 1989 Nov;88(11):24–9
[Guidelines in (suspected) pancreas head carcinoma] van Leeuwen DJ, et al. **Ned Tijdschr Geneeskd** 1989 Dec 16; 133(50):2499–504 (35 ref.) (Dut)
[Detection of nosocomial infections: a proposal of a protocol for a prospective study] Gallet E, et al. **Agressologie** 1989 May;30(5):259–62 (Eng. Abstr.) (Fre)
[Clinical trials in general practice. Guidelines for evaluation of trial protocols] Grimsmo A. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2903–4 (Nor)
[Analysis of clinical decisions] Rodríguez Artalejo F, et al. **Med Clin (Barc)** 1990 Mar 10;94(9):348–54 (Spa)

STANDARDS

Comparison of different regimens of prednisone therapy in frequently relapsing nephrotic syndrome. Wingen AM, et al. **Acta Paediatr Scand** 1990 Mar;79(3):305–10
Thrombolysis in myocardial infarction (TIMI) randomized studies versus TIMI open label studies. Knatterud GL. **Controlled Clin Trials** 1989 Dec;10(4 Suppl):245S–256S
Large trials with simple protocols: indications and contraindications. Lubsen J, et al. **Controlled Clin Trials** 1989 Dec;10(4 Suppl):151S–160S
The rate of gastrointestinal bleeding in a general ICU population: a retrospective study. Gurman G, et al. **Intensive Care Med** 1990;16(1):44–9
Maintenance of blood pressure treatment and control after discontinuation of work site follow-up. Erfurt JC, et al. **J Occup Med** 1990 Jun;32(6):513–20
Deformity and disability from treated clubfoot. Aronson J, et al. **J Pediatr Orthop** 1990 Jan–Feb;10(1):109–19
Practice guidelines [letter; comment] **JAMA** 1990 Jun 13; 263(22):3021–2 Comment on: JAMA 1989 Dec 1;262(21):3027–30.
Clinical decision making: from theory to practice. Practice policies—guidelines for methods. Eddy DM. **JAMA** 1990 Apr 4;263(13):1839–41
NIH 'Research Risks Office' reprimands hospital institutional review board [news] Marwick C. **JAMA** 1990 May 9; 263(18):2420
Treatment protocols [letter] [see comments] Mackay M. **N Z Med J** 1990 Mar 28;103(886):138 Comment in: N Z Med J 1990 Jun 13;103(891):279.
Practice guidelines: neurologic evaluation. Report of the Quality Standards Subcommittee of the American Academy of Neurology. **Neurology** 1990 Jun;40(6):871
Cyclosporine administration practices on bone marrow transplant units: a national survey. Caudell KA, et al. **Oncol Nurs Forum** 1990 Jul–Aug;17(4):563–8
An outpatient approach to the delivery of intensive consolidation chemotherapy to adults with acute lymphoblastic leukemia. Palmer P, et al. **Oncol Nurs Forum** 1990 Jul–Aug;17(4):553–8
An elderly care clinic protocol in practice. Ganvir S. **Practitioner** 1989 May 22;233(1469):721–2
Group sequential procedures: calendar versus information time. Demets DL. **Stat Med** 1989 Oct;8(10):1191–8
Vital signs of class I surgical patients. Davis MJ, et al. **West J Nurs Res** 1990 Feb;12(1):28–37; discussion 37–41
[Standardized treatment] Segest E, et al. **Ugeskr Laeger** 1990 Jul 2;152(27):1958–61 (30 ref.) (Eng. Abstr.) (Dan)
[Evaluation of the efficacy of amino 4-quinolones in a chemoresistant zone. Proposals for new therapeutic schemes] Hengy C, et al. **Med Trop (Mars)** 1990 Jan–Mar; 50(1):109–11 (Eng. Abstr.) (Fre)
[Ethical problems in clinical research] Cárdenas M. **Arch Inst Cardiol Mex** 1990 Jan–Feb;60(1):7–9 (Spa)

CLINICAL SKILLS see CLINICAL COMPETENCE

CLINICAL TRIAL OVERVIEWS see META-ANALYSIS

CLINICAL TRIALS

see related
DRUGS, INVESTIGATIONAL

The case of loose inclusion criteria in clinical trials. Buyse ME. **Acta Chir Belg** 1990 May–Jun;90(3):129–31
The design of advanced breast cancer trials. New approaches. Fraser SC, et al. **Acta Oncol** 1990;29(3):397–400 (13 ref.)
NIAID AIDS Clinical Trials Information Service established [news] **AIDS Educ Prev** 1989 Fall;1(3):257–8
The Community Research Initiative of New York [news] Holzemer SP, et al. **AIDS Educ Prev** 1989 Winter; 1(4):346–7
Clinical trials including an update on the Helsinki Heart Study. Brown WV. **Am J Cardiol** 1990 Sep 4; 66(6):11A–15A (9 ref.)
Making clinical studies involving many patients useful to the single patient [editorial] Roberts WC. **Am J Cardiol** 1990 Jun 1;65(20):1408
Students' experience in a phase III clinical trial [letter] Marshall LL, et al. **Am J Hosp Pharm** 1990 May;47(5):1014, 1016
Need for a prospective treatment trial [letter; comment] Harris EN. **Am J Obstet Gynecol** 1990 Apr;162(4):1121 Comment on: Am J Obstet Gynecol 1989 Feb;160(2):439–43.
Combining evidence from clinical trials [editorial; comment] DerSimonian R. **Anesth Analg** 1990 May;70(5):475–6 Comment on: Anesth Analg 1990 May;70(5):477–83.
Informed consent: an unresolved issue [letter] Runge JW. **Ann Emerg Med** 1990 Jul;19(7):841
Fish oil supplementation and plasma cholesterol: the power of a clinical trial [comment] Szatrowski TP. **Ann Intern Med** 1990 Apr 15;112(8):633–4 Comment on: Ann Intern Med 1989 Dec 1;111(11):900–5.
Evaluating drugs in rheumatoid arthritis [letter; comment] Larsen A. **Ann Rheum Dis** 1989 Sep;48(9):790–1 Comment on: Ann Rheum Dis 1989 Mar;48(3):256–61.
Compliance in clinical trials. Pullar T, et al. **Ann Rheum Dis** 1989 Oct;48(10):871–5 (56 ref.)
Muscle relaxants and Bier's block [letter] McGlone R. **Arch Emerg Med** 1989 Sep;6(3):232
Controlled clinical trials in cerebrovascular disease. A misused tool. Marshall J. **Arch Neurol** 1990 Apr;47(4):444–5
Panel discussion. I.II: Who is concerned with patient welfare in research? Bühler FR, et al. **Arzneimittelforschung** 1989 Aug;39(8A):1061–9
The impact of clinical trials on clinical practice. Furberg CD. **Arzneimittelforschung** 1989 Aug;39(8A):986–8
Reduction of risk to patients through optimized planning of clinical drug development. Weihrauch TR, et al. **Arzneimittelforschung** 1989 Aug;39(8A):1054–5; discussion 1056
Rules for drug trials [letter] Doogan DP. **BMJ** 1989 Dec 2;299(6712):1401
Rules for drug trials [letter; comment] Oswald I. **BMJ** 1989 Oct 28;299(6707):1103 Comment on: BMJ 1989 Sep 2;299(6699):580–1.
The role of the research nurse in clinical trials. Cooper J, et al. **Br J Clin Pract** 1989 May;43(5):167–8
Improving cancer treatment by expanding clinical trials [editorial] Lawrence W Jr. **CA** 1990 Mar–Apr;40(2):69–70
AIDS trials, civil liberties and the social control of therapy: should we embrace new drugs with open arms? Salisbury DA, et al. **Can Med Assoc J** 1990 May 15;142(10):1057–62
American Cancer Society Workshop on Clinical Trials. Naples, Florida, September 14–15, 1989. **Cancer** 1990 May 15;65(10 Suppl):2369–417
Clinical trials from the Surgeon's View. Beahrs OH. **Cancer** 1990 May 15;65(10 Suppl):2383–4
Southwest Oncology Group. Coltman CA Jr. **Cancer** 1990 May 15;65(10 Suppl):2385–7
Overview. Current status of clinical trials. Durant JR. **Cancer** 1990 May 15;65(10 Suppl):2371–5 (18 ref.)
Clinical trials for cancer patients. The community practicing physician's perspective. Fleming ID. **Cancer** 1990 May 15; 65(10 Suppl):2388–90
Opportunities in clinical trials. Adjuvant breast cancer. Friedman MA, et al. **Cancer** 1990 Sep 15;66(6 Suppl):1412–5
Breakout III. Concerns of the patient and the public. Letton AH, et al. **Cancer** 1990 May 15;65(10 Suppl):2411–2
Reflections on clinical trials—and tribulations. Loeb V Jr. **Cancer** 1990 Feb 1;65(3 Suppl):845–6
Breakout I. Ethical considerations. McKenna RJ Sr, et al. **Cancer** 1990 May 15;65(10 Suppl):2407–8
Breakout V. Concerns of the clinical investigator. Moertel CG, et al. **Cancer** 1990 May 15;65(10 Suppl):2415–6
Cancer clinical trials. A case for collaboration. Purvis JD. **Cancer** 1990 May 15;65(10 Suppl):2391–3
Type 3 and type 4 errors in the statistical evaluation of clinical trials. Robin ED, et al. **Chest** 1990 Aug;98(2):463–5
Nonfatal myocardial infarction is, by itself, an inappropriate end point in clinical trials in cardiology [editorial] Fleiss JL, et al. **Circulation** 1990 Feb;81(2):684–5
Anticonvulsants for treatment of manic depression. Delucchi GA, et al. **Cleve Clin J Med** 1989 Nov–Dec;56(8):756–61 (53 ref.)
Clinical trials in the elderly. Pivotal points. Kitler ME. **Clin Geriatr Med** 1990 May;6(2):235–55 (119 ref.)
A microcomputer-based clinical trial database incorporated with an 'audit trail' for correction process. Hsu YL, et al. **Comput Methods Programs Biomed** 1989 Dec;30(4):239–48
The relational database model and multiple multicenter clinical trials. Blumenstein BA. **Controlled Clin Trials** 1989 Dec;10(4):386–406
Empirical Bayes estimates of subgroup effects in clinical trials. Davis CE, et al. **Controlled Clin Trials** 1990 Feb; 11(1):37–42
Identification of meta-analyses. The need for standard terminology. Dickersin K, et al. **Controlled Clin Trials** 1990 Feb;11(1):52–66
The conflict between relational databases and the hierarchical structure of clinical trials data. Helms RW, et al. **Controlled Clin Trials** 1990 Feb;11(1):7–23
Projection from previous studies. A caution [letter] Korn EL. **Controlled Clin Trials** 1990 Feb;11(1):67–9
Suspended judgment. The seeds of dualism in medical research. Silverman WA. **Controlled Clin Trials** 1990 Feb; 11(1):4–6
Factors of importance when evaluating quality of life in clinical trials. Wiklund I, et al. **Controlled Clin Trials** 1990 Jun;11(3):169–79
Technology evaluation and clinical trials of magnetic resonance imaging. Beltran J. **Curr Opin Rheumatol** 1990 Apr;2(2):379–83 (24 ref.)
Recent clinical pharmacology and clinical trial reports. Catalano MA, et al. **Curr Opin Rheumatol** 1990 Apr; 2(2):316–9 (11 ref.)
Designing hypersensitivity clinical studies. Clark GE, et al. **Dent Clin North Am** 1990 Jul;34(3):531–44 (26 ref.)
Early presentation of results in clinical trials: an ethical dilemma for medicine and science. Bartelink H, et al. **Eur J Cancer** 1990 Apr;26(4):419–20
Publications on clinical trials with X-ray contrast media: differences in quality between journals and decades. Andrew E, et al. **Eur J Radiol** 1990 Mar–Apr;10(2):92–7
Nedocromil sodium: a review of clinical studies. Ruggieri F, et al. **Eur Respir J Suppl** 1989 Jun;6:568s–571s (19 ref.)
The sore throat: a clinical research challenge for the family physician [editorial] Blake RL Jr. **Fam Med** 1989 Nov–Dec; 21(6):414–5
Methodology of a controlled clinical study for cerebral aging evaluation. Vecchi GP, et al. **Int J Clin Pharmacol Res** 1990;10(1–2):145–52
Clinical trials act and medical research. Feely J. **Ir Med J** 1989 Sep;82(3):101
Clinical cardiovascular research: a role for the private practitioner. Conti CR. **J Am Coll Cardiol** 1990 Jan; 15(1):248–9
Designing and executing randomized clinical trials involving elderly persons. Applegate WB, et al. **J Am Geriatr Soc** 1990 Aug;38(8):943–50
Clinical trials and epidemiology. Senn SJ. **J Clin Epidemiol** 1990;43(6):628–32
Cervix cancer: too many patients [letter; comment] Cohen MH. **J Clin Oncol** 1990 Apr;8(4):755–6 Comment on: J Clin Oncol 1989 Oct;7(10):1462–8.
Split-mouth and cross-over designs in dental research. Antczak-Bouckoms AA, et al. **J Clin Periodontol** 1990 Aug;17(7 Pt 1):446–53 (55 ref.)
A deterministic approach to survival statistics. Mackey MC, et al. **J Math Biol** 1990;28(1):33–48
Earlier end points sought for clinical trials [news] Vanchieri C. **J Natl Cancer Inst** 1990 Feb 7;82(3):172
Quality of life gets equal consideration as a clinical trial end point [news] Vanchieri C. **J Natl Cancer Inst** 1990 Feb 7;82(3):173–4
Clinical trials: the role of the neuroscience nurse. Hodges LC, et al. **J Neurosci Nurs** 1990 Jun;22(3):195–8
Signs of fertility: the personal science of natural birth control [letter] Nofziger M. **J Nurse Midwifery** 1989 Nov–Dec; 34(6):359–60
Call for clinical trial participants [letter] Broadfield L. **J Palliat Care** 1989 Dec;5(4):35
On the importance of clinical trials [editorial] Crawford ED. **J Urol** 1990 Apr;143(4):787
Ethical implications of rejecting patients for clinical trials [letter] **JAMA** 1990 Aug 22–29;264(8):973–4
A cohort study of summary reports of controlled trials. Chalmers I, et al. **JAMA** 1990 Mar 9;263(10):1401–5
Underreporting research is scientific misconduct. Chalmers I. **JAMA** 1990 Mar 9;263(10):1405–8
Meta-analysis of hypertension treatment trials [letter;

comment] **Lancet** 1990 May 5;335(8697):1092–4 Comment on: Lancet 1990 Mar 31;335(8692):765–74.
Finder's fees for research subjects. Lind SE. **N Engl J Med** 1990 Jul 19;323(3):192–5
The peculiar difficulties of therapeutic trials for multiple sclerosis. Myers LW, et al. **Neurol Clin** 1990 Feb; 8(1):119–41 (155 ref.)
Tests of one-sided versus two-sided hypotheses in placebo-controlled clinical trials. Overall JE. **Neuropsychopharmacology** 1990 Aug;3(4):233–5
NCI mounts campaign to increase number of patients in clinical trials. **Oncology (Williston Park)** 1988 Sep;2(9):50, 53, 57
Clinical trials referral resource. Adjuvant therapy of breast cancer. Cheson BD. **Oncology (Williston Park)** 1989 Jun; 3(6):70–1, 74–5, 78
Clinical trials referral resource. Sarcomas. Cheson BD. **Oncology (Williston Park)** 1990 Mar;4(3):42–58
Clinical trials referral resource. Adjuvant treatment of colon cancer. Cheson BD. **Oncology (Williston Park)** 1989 Sep; 3(9):98–101, 106–8
Clinical trials referral resource. Prostate cancer. Cheson BD. **Oncology (Williston Park)** 1989 Nov;3(11):65–6, 71, 74–8
Clinical trials referral resource. Adjuvant therapy for colon cancer. Cheson BD. **Oncology (Williston Park)** 1990 Apr; 4(4):67–9, 74, 79–84
Clinical trials referral resource. Advanced breast cancer. Cheson BD. **Oncology (Williston Park)** 1989 Jul;3(7):113–4, 121–3
Clinical trials referral resource. Non-Hodgkin's lymphoma. Cheson BD. **Oncology (Williston Park)** 1989 Oct; 3(10):37–40, 45–50
Clinical trials referral resource. Non-small-cell lung cancer. Cheson BD. **Oncology (Williston Park)** 1990 Feb;4(2):51–63
Clinical trials referral resource. High-dose chemo for acute myeloid leukemia. Cheson BD. **Oncology (Williston Park)** 1990 Jul;4(7):69–70, 72–4, 77–8 passim
Clinical trials referral resource. Small-cell lung cancer. Cheson BD. **Oncology (Williston Park)** 1990 Jan;4(1):43–56
Prognostic factors and clinical trials. Dixon DO. **Oncology (Williston Park)** 1990 Apr;4(4):116–22; discussion 122, 125–6 (38 ref.)
Monoclonal antibody therapy of lymphoproliferative disorders. Kuzel TM, et al. **Oncology (Williston Park)** 1990 Mar;4(3):77–84; discussion 84, 89–90, 92–3 (24 ref.)
Cost of therapy should be considered in accruing patients into clinical trials [letter] Lawrence G. **Oncology (Williston Park)** 1988 Sep;2(9):17
On hummingbirds, extracorporeal membrane oxygenation, and IBM. Nelson NM. **Pediatrics** 1990 Mar;85(3):374–6
Aid to the evaluation of therapeutic studies. Reisch JS, et al. **Pediatrics** 1989 Nov;84(5):815–27
Clinical trials in elderly subjects. Turner P. **Postgrad Med J** 1989 Apr;65(762):218–20
Successful clinical trials in the private sector: the National Biotherapy Study Group (NBSG) experience. Avent R, et al. **Prog Clin Biol Res** 1990;339:419–23
Clinical trials booklet evaluation. Davis SW, et al. **Prog Clin Biol Res** 1990;339:409–17
Ethical aspects of psychopharmacology. Leon CA. **Prog Neuropsychopharmacol** 1979;3(1–3):297–301
Clinical trials in psychopharmacology: scientific and ethical issues. Sarteschi P, et al. **Prog Neuropsychopharmacol** 1979; 3(1–3):293–6
Statistical significance versus clinical relevance. Part I. The essential role of the power of a statistical test. Luus HG, et al. **S Afr Med J** 1989 Nov 18;76(10):568–70
Statistical significance versus clinical relevance. Part II. The use and interpretation of confidence intervals. Luus HG, et al. **S Afr Med J** 1989 Dec 2;76(11):626–9
Laboratory tests during clinical trials. **Scand J Clin Lab Invest Suppl** 1989;195:16–8
Government ddI trials on trial [news] Palca J. **Science** 1989 Dec 8;246(4935):1244
The importance and nature of cancer prevention trials. Byar DP, et al. **Semin Oncol** 1990 Aug;17(4):413–24 (34 ref.)
Is it any good? The evaluation of therapy by participants in a clinical trial. Wynne A. **Soc Sci Med** 1989; 29(11):1289–97
Correcting for the bias caused by dropouts in hypertension trials [letter; comment] Lewis JA. **Stat Med** 1989 Oct; 8(10):1302–4 Comment on: Stat Med 1988 Sep;7(9):941–6.
The use of baselines in clinical trials of bronchodilators. Senn SJ. **Stat Med** 1989 Nov;8(11):1339–50 (21 ref.)
Clinically useful measures to assess the effectiveness of treatments: hints for a proper choice with special emphasis on cancer research [published erratum appears in Tumori 1990 Jun 30;76(3):299] Boracchi P, et al. **Tumori** 1990 Feb 28;76(1):1–9
[Clinical trials] Teske E. **Tijdschr Diergeneeskd** 1990 Feb 1; 115(3):136–9 (Dut)
[Methods for evaluating anti-angina agents] Weber S, et al. **Arch Mal Coeur** 1989 Dec;82(12):2077–81 (Fre)
[Contribution of new informatics to therapeutic trials] Valleron AJ. **Pathol Biol (Paris)** 1989 Nov;37(9):1053–5 (Fre)
[Estimate of adjusted survival curves] Kramar A, et al. **Rev Epidemiol Sante Publique** 1990;38(2):149–52 (Fre)
[Quality of life assessment in therapeutic trials. Conceptual aspects and presentation of a questionnaire] Gérin P, et al. **Therapie** 1989 Sep-Oct;44(5):355–64 (50 ref.) (Eng. Abstr.) (Fre)
[Medical research and ethics committees] Pfeiffer G, et al. **Med Klin** 1989 Nov 15;84(11):557–61 (32 ref.) (Ger)
[Medical progress and medical ethics] Leithoff H. **Versicherungsmedizin** 1989 Nov 1;41(6):173–4 (Ger)
[Report from the colloquium on long-term clinical trial strategies] Sakamoto J, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):701–8 (Jpn)
[Clinical trials in general practice. Guidelines for evaluation of trial protocols] Grimsmo A. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2903–4 (Nor)
[Ethics and clinical tests] Liestøl K, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3241 (Nor)
[Informed consent and the Clinical Trials Committees (letter)] de Abajo FJ, et al. **Med Clin (Barc)** 1989 Dec 16; 93(20):801 (Spa)
[Should the clinical trial committees be professionalized? (letter)] García Alonso F, et al. **Med Clin (Barc)** 1990 May 12;94(18):717 (Spa)
[New rules for clinical trials in the USA will introduce new drugs on the market earlier] Bergström L. **Lakartidningen** 1989 Dec 13;86(50):4461 (Swe)
[Research information material as a help to all persons active in clinical studies] Krook A. **Lakartidningen** 1990 Jun 13; 87(24):2103 (Swe)
[Overflow of data collected in clinical trials] Taube A. **Lakartidningen** 1990 Jul 11;87(28–29):2367 (Swe)

ECONOMICS

Breakout II. Reimbursement concerns. Henney JE, et al. **Cancer** 1990 May 15;65(10 Suppl):2409–10
Reimbursement issues in cancer clinical trials. McKenna RJ. **Cancer** 1990 May 15;65(10 Suppl):2405–6
Pharmacoeconomic research and clinical trials: concepts and issues. Bootman JL, et al. **DICP** 1989 Sep;23(9):693–7
Weight of financial reward in the decision by medical students and experienced healthy volunteers to participate in clinical trials. Bigorra J, et al. **Eur J Clin Pharmacol** 1990;38(5):443–6
Are clinical trials cost-effective? [letter; comment] **JAMA** 1990 Mar 16;263(11):1491–2 Comment on: JAMA 1989 Oct 6;262(13):1795–800.
Patients, profits, and progress [editorial] Perry MC. **Mo Med** 1989 Jul;86(7):375, 426
Cost-effectiveness and reimbursement in patient care. Antman KH, et al. **Semin Hematol** 1989 Jul;26(3 Suppl 3):32–45

HISTORY

Suspended judgment. Memories of the British Streptomycin Trial in Tuberculosis. The first randomized clinical trial. Hill AB. **Controlled Clin Trials** 1990 Apr;11(2):77–9
Dental research: the clinical trial formula. McCann D. **J Am Dent Assoc** 1990 Apr;120(4):384–92
Fumes from the spleen. **Paediatr Perinat Epidemiol** 1990 Jul; 4(3):255–8

METHODS

The AIDS epidemic and clinical trials. Young FE. **Acad Med** 1989 Nov;64(11):660–1
Can trials of physical treatments be blinded? The example of transcutaneous electrical nerve stimulation for chronic pain. Deyo RA, et al. **Am J Phys Med Rehabil** 1990 Feb; 69(1):6–10
Recruiting young adults in an urban setting: the Chicago CARDIA experience. Orden SR, et al. **Am J Prev Med** 1990 May-Jun;6(3):176–82
Sequential clinical trials in emergency medicine. Lewis RJ, et al. **Ann Emerg Med** 1990 Sep;19(9):1047–53
Clinical trials. A guide to understanding methodology and interpreting results. Ratain JS, et al. **Arthritis Rheum** 1990 Jan;33(1):131–9 (69 ref.)
A quality-of-life-oriented endpoint for comparing therapies. Gelber RD, et al. **Biometrics** 1989 Sep;45(3):781–95
A linear rank test for use when the main interest is in differences in cure rates. Gray RJ, et al. **Biometrics** 1989 Sep;45(3):899–904
Study duration for clinical trials with survival response and early stopping rule. Kim K, et al. **Biometrics** 1990 Mar; 46(1):81–92
Changing frequency of interim analysis in sequential monitoring. Lan KK, et al. **Biometrics** 1989 Sep; 45(3):1017–20
Combining outcome measures: statistical power is irrelevant [comment] Senn S. **Biometrics** 1989 Sep;45(3):1027–8 Comment on: Biometrics 1987 Sep;43(3):487–98.
Estimation and comparison of changes in the presence of informative right censoring: conditional linear model. Wu MC, et al. **Biometrics** 1989 Sep;45(3):939–55
Sample size and power for comparing two or more treatment groups in clinical trials [published erratum appears in BMJ 1989 Oct 21;299(6706):1018] Day SJ, et al. **BMJ** 1989 Sep 9;299(6700):663–5
Organising clinical research: 3. Trial design. Mapleson WW. **Br J Clin Pract** 1989 Mar;43(3):89–93
More on double-blindness [letter] Hughes JR. **Br J Psychiatry** 1990 Jul;157:151–2
Appraising the quality of drug-evaluation research: I. A method of meta-analysis for acute treatment medications. King PR. **Can J Psychiatry** 1990 May;35(4):316–9
Progress in the systemic treatment of cancer. Concepts, trials, drugs, and biologics. Carbone PP. **Cancer** 1990 Feb 1;65(3 Suppl):625–33
A critique of recent research on the two-treatment crossover design. Fleiss JL. **Controlled Clin Trials** 1989 Sep; 10(3):237–43 (20 ref.)
Use of principal components analysis to develop a composite score as a primary outcome variable in a clinical trial. The VA Cooperative Study Group on Cochlear Implantation. Henderson WG, et al. **Controlled Clin Trials** 1990 Jun; 11(3):199–214
Exact, conditional, and predictive power in planning clinical trials. Moussa MA. **Controlled Clin Trials** 1989 Dec; 10(4):378–85
Therapeutic trials in general practice, an unmet need. Hvidberg EF, et al. **Dan Med Bull** 1990 Feb;37(1):84–6 (10 ref.)
Selection of patients with symptomatic diabetic neuropathy for clinical trials. Krentz AJ, et al. **Diabete Metab** 1989 Nov-Dec;15(6):416–9
Measuring quality of life in clinical drug trials. Michalko KJ. **Dimens Health Serv** 1989 Nov;66(8):16–8, 20
Reporting of clinical trials [letter; comment] Pinkel D, et al. **J Clin Oncol** 1990 Jan;8(1):180–2 Comment on: J Clin Oncol 1989 Jul;7(7):979–81.
Do volunteer subjects bias clinical trials? Amori G, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):321–7
Drug studies in women of childbearing age: ethical and methodological considerations. Halbreich U, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):328–33 (63 ref.)
Appraising the quality of drug-evaluation research: II. A methodological review procedure for prophylactic treatment trials. King PR. **J Clin Psychopharmacol** 1990 Feb;10(1):22–6 (32 ref.)
Primary prevention trials in cardiovascular disease. Pocock SJ, et al. **J Epidemiol Community Health** 1990 Mar; 44(1):3–6 (16 ref.)
Controversy grows over parallel track for experimental AIDS drug [news] **N Y State J Med** 1990 Mar;90(3):169
Clinical research: network of centres better than just one [news] Webb B. **Nature** 1989 Nov 2;342(6245):10
Clinical trials. Ellenberg JH. **Neurol Clin** 1990 Feb;8(1):15–30 (29 ref.)
Common methods of analyzing response data in clinical trials. Harrington DP, et al. **Oncology (Williston Park)** 1990 Jan; 4(1):95–106; discussion 106, 111, 113 (25 ref.)
Problems in antiemetic trial design and interpretation. Krasnow SH. **Oncology (Williston Park)** 1989 Aug; 3(8):5–10 (56 ref.)
Designs for efficient clinical trials. Simon R. **Oncology (Williston Park)** 1989 Jul;3(7):43–9; discussion 51–3 (18 ref.)
The advantages of using the clinical trials model for cancer control research. La Chance PA, et al. **Prog Clin Biol Res** 1990;339:383–9
Diagnoses as selection criteria in drug trials. Buller R, et al. **Psychopharmacol Ser** 1990;8:139–54 (54 ref.)
Meta-analysis in the breech [news] Mann C. **Science** 1990 Aug 3;249(4968):476–80
The performance of the two-stage analysis of two-treatment, two-period crossover trials. Freeman PR. **Stat Med** 1989 Dec;8(12):1421–32
Grading of images in a clinical trial. Seigel D, et al. **Stat Med** 1989 Dec;8(12):1433–8
The analysis of relapse clinical trials, with application to a comparison of two ulcer treatments. Whitehead J. **Stat Med** 1989 Dec;8(12):1439–54
[Good clinical practice. Requirements for clinical documentation on the introduction of new drugs] Dirach J. **Ugeskr Laeger** 1990 Apr 2;152(14):992–4 (12 ref.) (Eng. Abstr.) (Dan)
[Justification of the choice of methodology in large scale trials of thrombolytic agents in myocardial infarction] Boissel JP. **Arch Mal Coeur** 1989 Oct;82 Spec No 3:21–5 (Eng. Abstr.) (Fre)
[Methods for evaluating thrombolytic drugs] Castaigne A, et al. **Arch Mal Coeur** 1990 Feb;83 Spec No 1:9–14 (Eng. Abstr.) (Fre)
[Methodology of clinical studies of myorelaxants] Blin O, et al. **Therapie** 1990 May-Jun;45(3):267–71 (Eng. Abstr.) (Fre)
[Ethical and legal aspects of the use of placebos in research and practice] Blanz M. **Fortschr Neurol Psychiatr** 1990 May;58(5):167–74 (70 ref.) (Eng. Abstr.) (Ger)
[Drug trials in clinical practice—aspects of drug safety] Walter-Sack I. **Klin Wochenschr** 1989 Oct 17;67(20):1015–9 (Ger)
[Why do we need controlled clinical studies?] Utell MJ, et al. **Pneumologie** 1990 Feb;44 Suppl 1:399–402 (Eng. Abstr.) (Ger)
[Assessment of group composition in clinical studies with reference to ethical aspects] Hiller E. **Z Arztl Fortbild (Jena)** 1990;84(7):343–5 (Ger)
[Planning clinical trials and observing ethical principles from the biometric viewpoint] Hiller E. **Z Arztl Fortbild (Jena)** 1990;84(6):239–41 (Ger)
[Use of statistical procedures in orthopedics exemplified by several years of an orthopedic specialty journal] Winter T. **Z Orthop** 1989 Jul-Aug;127(4):433–6 (Eng. Abstr.) (Ger)
[The methodology and experience of the controlled clinical experiment] Jahn KR. **Zahn Mund Kieferheilkd** 1990; 78(2):127–30 (Eng. Abstr.) (Ger)

[Methodology problems in Spanish publications on clinical studies of psychopharmaceuticals (letter)] Caballero L, et al. **Med Clin (Barc)** 1990 Mar 3;94(8):318 **(Spa)**

PSYCHOLOGY

Clinical trials. Concerns of the patient and the public. Ganz PA. **Cancer** 1990 May 15;65(10 Suppl):2394–9 (25 ref.)
Breakout IV. Health professional concerns in the practice setting. Gusberg SB, et al. **Cancer** 1990 May 15;65(10 Suppl):2413–4

STANDARDS

Time for changes in the design, analysis, and reporting of rheumatoid arthritis clinical trials. Felson DT, et al. **Arthritis Rheum** 1990 Jan;33(1):140–9 (39 ref.)
Good clinical practice: a way to better drugs [see comments] Hvidberg EF. **BMJ** 1989 Sep 2;299(6699):580–1 Comment in: BMJ 1989 Oct 28;299(6707):1103.
Is your 'double-blind' design truly double-blind? [see comments] Oxtoby A, et al. **Br J Psychiatry** 1989 Nov; 155:700–1 Comment in: Br J Psychiatry 1990 Feb;156:282.
Clinical trials: do they change clinical practice? [editorial] Conti CR. **Clin Cardiol** 1990 Mar;13(3):151–2
CAST: implications for drug development. Woosley RL. **Clin Pharmacol Ther** 1990 May;47(5):553–6
Estimation of the coefficient of variation from laboratory analysis of split specimens for quality control in clinical trials. Connett JE, et al. **Controlled Clin Trials** 1990 Feb; 11(1):24–36
The Mid-Atlantic Oncology Program's comparison of two data collection methods. Jasperse DM, et al. **Controlled Clin Trials** 1989 Sep;10(3):282–9
Maintenance of a nutrient database for clinical trials. Sievert YA, et al. **Controlled Clin Trials** 1989 Dec;10(4):416–25
Informed consent in clinical research with drugs in Spain: perspective of clinical trials committee members. Dal-Ré R. **Eur J Clin Pharmacol** 1990;38(4):319–24
RTOG quality assurance guidelines for clinical trials using hyperthermia. Dewhirst MW, et al. **Int J Radiat Oncol Biol Phys** 1990 May;18(5):1249–59
FDA audits of clinical studies: policy and procedure. Lisook AB. **J Clin Pharmacol** 1990 Apr;30(4):296–302
NIH called to task: women needed in clinical trials [news] Tisevich DA. **J Natl Cancer Inst** 1990 Jul 18;82(14):1181–3
Ethical implications of rejecting patients for clinical trials [editorial; comment] Chalmers TC. **JAMA** 1990 Feb 9; 263(6):865 Comment on: JAMA 1990 Feb 9;263(6):825–30.
Statistics in clinical trials [letter; comment] [see comments] **Lancet** 1990 Mar 10;335(8689):614 Comment on: Lancet 1990 Jan 20;335(8682):149–53. Comment in: Lancet 1990 Jun 16;335(8703):1476.
Clinical trial numbers [letter; comment] **Lancet** 1990 Feb 24; 335(8687):483–4 Comment on: Lancet 1990 Jan 13;335(8681):114.
Supervision of clinical investigations. Report by Royal College of Physicians. **Lancet** 1967 Aug 12;2(7511):357–8
Publication of negative studies [letter; comment] **Lancet** 1990 Feb 17;335(8686):415 Comment on: Lancet 1989 Dec 16;2(8677):1440–2.
Baseline comparisons in clinical trials [letter; comment] Altman DG, et al. **Lancet** 1990 Jun 16;335(8703):1476 Comment on: Lancet 1990 Mar 10;335(8689):614.
Randomisation and baseline characteristics in clinical trials [letter; comment] Moscucci M. **Lancet** 1990 Apr 28; 335(8696):1040–1 Comment on: Lancet 1990 Jan 20;335(8682):149–53.
Tamoxifen to prevent breast cancer [letter] [see comments] Spicer D, et al. **Lancet** 1990 Jun 9;335(8702):1397 Comment in: Lancet 1990 Jul 7;336(8706):48.
The role of the medical monitor. Miller E. **Md Med J** 1989 Dec;38(12):1071
Clinical trials. It's still a man's world [news] Segawa S. **Nature** 1990 Jun 28;345(6278):754
Interim analyses in clinical trials. Emerson SS, et al. **Oncology (Williston Park)** 1990 Mar;4(3):126–33; discussion 134, 136
Consensus Conference on the Methodology of Clinical Trials of "Nootropics", Munich, June 1989. Report of the Consensus Committee. Amaducci L, et al. **Pharmacopsychiatry** 1990 Jul;23(4):171–5 (0 ref.)
Current status of clinical trials of therapeutic modalities for malignant melanoma in Australia. Coates A. **Pigment Cell Res** 1989 Jul-Aug;2(4):370–1 (9 ref.)
Preclinical and phase I studies of monoclonal antibodies in melanoma: application to boron neutron capture therapy of melanoma. Hersey P. **Pigment Cell Res** 1989 Jul-Aug; 2(4):264–72 (80 ref.)
Ethical problems and design of controlled clinical trials. Helmchen H. **Psychopharmacol Ser** 1990;8:82–7
National and international guidelines for the conduct of clinical trials of psychotropic drugs. Müller-Oerlinghausen B. **Psychopharmacol Ser** 1990;8:167–74
OTA peers into cancer therapy fog [news] Marshall E. **Science** 1990 Sep 21;249(4975):1369
Group sequential procedures: calendar versus information time. Demets DL. **Stat Med** 1989 Oct;8(10):1191–8
Adjusting for baseline: change or percentage change? Kaiser L. **Stat Med** 1989 Oct;8(10):1183–90
[Good clinical practice: necessity or fashion?] Keppel Hesselink JM. **Ned Tijdschr Geneeskd** 1989 Oct 28; 133(43):2108–11 **(Dut)**
[Europe 1992: big brother is watching you] Offerhaus L. **Ned Tijdschr Geneeskd** 1989 Oct 28;133(43):2111–2 **(Dut)**
[Sequential analysis of therapeutic trials in hemato-oncology] Benichou J, et al. **Pathol Biol (Paris)** 1989 Nov;37(9):1057–9 **(Fre)**
[Standardization of clinical experimental procedures] Dominici A. **Clin Ter** 1990 Feb 15;132(3):145–50 **(Ita)**
[Drug clinical trials (letter)] Flaten O. **Tidsskr Nor Laegeforen** 1990 Jun 20;110(16):2117–8 **(Nor)**
[The social system and accreditation of clinical trials] Moreno J, et al. **Med Clin (Barc)** 1990 Jan 20;94(2):61–4 **(Spa)**
[Informed consent and clinical trial committees (letter)] Vallano A, et al. **Med Clin (Barc)** 1990 Apr 21;94(15):599 **(Spa)**

STATISTICS & NUMERICAL DATA

Monitoring accumulating data in a clinical trial. Berry DA. **Biometrics** 1989 Dec;45(4):1197–211
Planning and monitoring of equivalence studies. Durrleman S, et al. **Biometrics** 1990 Jun;46(2):329–36 (26 ref.)
National Cancer Institute sponsored cooperative clinical trials. Friedman MA, et al. **Cancer** 1990 May 15;65(10 Suppl):2376–82
A statistical model for the "N-of-1" study. Rochon J. **J Clin Epidemiol** 1990;43(5):499–508
Use of information from clinical trials for an integrated cancer registry. Michaelis J, et al. **Methods Inf Med** 1990 Mar;29(2):92–8
Statistical issues: sample size and dropout. Lavori P. **Psychopharmacol Ser** 1990;8:91–104 (5 ref.)

TRENDS

Whatever happened to the notion of controlled experiments? [editorial] Gurr MI. **Br J Nutr** 1990 Mar;63(2):143–4
Cancer treatment trials—past failures, current progress and future prospects. Peto J, et al. **Cancer Surv** 1989;8(3):511–33 (22 ref.)
Research challenges, new drug development, preclinical and clinical trials in the ageing population. Abernethy DR. **Drug Saf** 1990;5 Suppl 1:71–4 (10 ref.)
Fumes from the spleen. **Paediatr Perinat Epidemiol** 1989 Oct; 3(4):353–5
Clinical trials in Europe and the development of new psychotropics as viewed by European manufacturers. Delini-Stula A. **Pharmacopsychiatry** 1990 Jul;23(4):164–70 (8 ref.)

CLINICAL TRIALS, RANDOMIZED see **RANDOMIZED CONTROLLED TRIALS**

CLINICS, DENTAL see **DENTAL CLINICS**

CLINICS, FREE-STANDING see **AMBULATORY CARE FACILITIES**

CLITORIS

A pilonidal sinus of the clitoris? Werker PM, et al. **Ann Plast Surg** 1990 Jul;25(1):63–4

ABNORMALITIES

Congenital adrenal hyperplasia in monozygotic twins with variable clinical manifestations. Kanjilal D, et al. **Jinrui Idengaku Zasshi** 1989 Sep;34(3):231–4

ANATOMY & HISTOLOGY

Clitoral size in full-term infants. Oberfield SE, et al. **Am J Perinatol** 1989 Oct;6(4):453–4
Identification of anatomic features of the equine clitoris as potential growth sites for Taylorella equigenitalis. McAllister RA, et al. **J Am Vet Med Assoc** 1990 Jun 15; 196(12):1965–6

DRUG EFFECTS

Repeated observations of yawning, clitoral engorgement, and orgasm associated with fluoxetine administration [letter; comment] Klein DF. **J Clin Psychopharmacol** 1989 Oct; 9(5):384 Comment on: J Clin Psychopharmacol 1989 Feb;9(1):63–5.

INNERVATION

Pudendal SEP and bulbocavernosus reflex in women. Vodušek DB. **Electroencephalogr Clin Neurophysiol** 1990 Mar-Apr;77(2):134–6
Sources of the autonomic and afferent fibers to the clitoris in pig. Flieger S, et al. **Folia Morphol (Warsz)** 1988; 47(1-4):83–8

SURGERY

[A change in substitution therapy in patients with congenital adrenogenital syndrome within the scope of surgical interventions] Hoepffner W, et al. **Kinderarztl Prax** 1990 Mar;58(3):151–7 (Eng. Abstr.) **(Ger)**
[Nerve-sparing, feminizing genital reconstruction to correct genital virilism: Experience of 25 children with adrenogenital syndrome] Altwein JE, et al. **Z Kinderchir** 1989 Aug;44(4):228–33 (Eng. Abstr.) **(Ger)**

CLOACA

ABNORMALITIES

Association of congenital vertebral malformations with bladder and cloacal exstrophy. Loder RT, et al. **J Pediatr Orthop** 1990 May-Jun;10(3):389–93
Cloacal exstrophy: individualized management through a staged surgical approach. Stolar CH, et al. **J Pediatr Surg** 1990 May;25(5):505–7
Cloacal exstrophy reconstruction for urinary continence. Mitchell ME, et al. **J Urol** 1990 Aug;144(2 Pt 2):554–8; discussion 562–3
Allantois as the bursa-equivalent in man. Zarabi CM. **Med Hypotheses** 1990 Jun;32(2):137–43
Management of cloacal anomalies: report on three cases. Smith L. **N Z Med J** 1989 Sep 27;102(876):503–4

CYTOLOGY

The significance of intestinal flow in the maturing of B lymphocytes and the chicken antibody response. Dolfi A, et al. **J Anat** 1989 Oct;166:233–42

DRUG EFFECTS

Action of activated 27,000 Mr toxin from Bacillus thuringiensis var. israelensis on Malpighian tubules of the insect, Rhodnius prolixus. Maddrell SH, et al. **J Cell Sci** 1989 Nov;94 (Pt 3):601–8

METABOLISM

Fluid secretion and microvillar ultrastructure in mosquito malpighian tubules. Bradley TJ, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1096–102
Membrane dynamics in insect malpighian tubules. Bradley TJ. **Am J Physiol** 1989 Nov;257(5 Pt 2):R967–72 (21 ref.)
Critical electrolyte concentration of heterochromatin and euchromatin in cells of starved animals. Amaral MJ, et al. **Cytobios** 1989;59(238–239):159–65
Cyclic AMP in the Malpighian tubule fluid and in the urine of Rhodnius prolixus. Montoreano R, et al. **Gen Comp Endocrinol** 1990 Jan;77(1):136–42
Light microscope immunolocation of Bacillus thuringiensis kurstaki delta-endotoxin in the midgut and Malpighian tubules of the tobacco budworm, Heliothis virescens. Ryerse JS, et al. **J Invertebr Pathol** 1990 Jul;56(1):86–90

MICROBIOLOGY

Campylobacter fetus subsp. jejuni in poultry reared under different management systems in Nigeria. Adekeye JO, et al. **Avian Dis** 1989 Oct-Dec;33(4):801–3

PATHOLOGY

Inflammatory cloacogenic polyp of anus: report of three cases. Shih CM, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;45(1):69–74 (12 ref.)
Primary adenocarcinoma of the vagina apparently originating from cloacal remnant. Upadhyaya NB, et al. **J Tenn Med Assoc** 1990 May;83(5):227–9
Genital outflow tract obstruction in an adolescent with cloacal exstrophy. Visnesky PM, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 2):548–51

PHYSIOLOGY

Electrophysiological and cable parameters of perfused beetle malpighian tubules. Isaacson LC, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1190–8
Molecular characterization of the Drosophila melanogaster urate oxidase gene, an ecdysone-repressible gene expressed only in the malpighian tubules. Wallrath LL, et al. **Mol Cell Biol** 1990 Oct;10(10):5114–27
Diuretic hormones and malpighian tubule function. Rafaeli A. **Prog Clin Biol Res** 1990;342:553–8 (32 ref.)

SECRETION

Diuretic and antidiuretic factors which act on the malpighian tubules of the house cricket, Acheta domesticus. Spring JH, et al. **Prog Clin Biol Res** 1990;342:559–64

ULTRASTRUCTURE

Polymorphic organization of the endoplasmic reticulum of the Malpighian tubule. Evidence for a transcellular route. Berthelet F, et al. **Cellule** 1987;74:281–90

CLOACIN see under **BACTERIOCINS**

CLOBETASOL see under **BETAMETHASONE**

CLOFAZIMINE

ADMINISTRATION & DOSAGE

Effect of three-year multidrug therapy in multibacillary leprosy patients. Li W, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1990; 5(1):37–40

ADVERSE EFFECTS

Orange/black discolouration of the bowel (at laparotomy) due to clofazimine. Merrett MN, et al.

Anst N Z J Surg 1990 Aug;60(8):638–9
Clofazimine induced nail changes. Dixit VB, et al. Indian J Lepr 1989 Oct;61(4):476–8
Effect of clofazimine on eye in multibacillary leprosy. Kaur I, et al. Indian J Lepr 1990 Jan–Mar;62(1):87–90
Clofazamine-induced generalized retinal degeneration. Cunningham CA, et al. Retina 1990;10(2):131–4

ANALOGS & DERIVATIVES

Structure-activity relationships of tetramethylpiperidine-substituted phenazines against Mycobacterium leprae in vitro. Franzblau SG, et al. Antimicrob Agents Chemother 1989 Nov;33(11):2004–5

PHARMACOKINETICS

Absorption and analysis of clofazimine and its derivatives. O'Sullivan S, et al. Biochem Soc Trans 1990 Apr; 18(2):346–7

PHARMACOLOGY

Structure-activity relationships of tetramethylpiperidine-substituted phenazines against Mycobacterium leprae in vitro. Franzblau SG, et al. Antimicrob Agents Chemother 1989 Nov;33(11):2004–5
The influence of structural modifications of dihydrophenazines on arachidonic acid mobilization and superoxide generation by human neutrophils. Zeis BM, et al. Lepr Rev 1990 Jun;61(2):163–70
A 25-kDa fraction from Mycobacterium tuberculosis that inhibits leukocyte bactericidal activity: reversal by gamma interferon and clofazimine. Wadee AA. Res Microbiol 1990 Feb;141(2):249–52; discussion 266–7
[Bacteriostatic and bactericidal study of rifabutine and clofazimine in combination against Mycobacterium avium-intracellulare and Mycobacterium xenopi] Gevaudan MJ, et al. Pathol Biol (Paris) 1989 Jun;37(5 Pt 2):585–90 (Eng. Abstr.) (Fre)

THERAPEUTIC USE

Antileishmanial effects of clofazimine and other antimycobacterial agents. Evans AT, et al. Ann Trop Med Parasitol 1989 Oct;83(5):447–54
Clofazimin in the treatment of scleroma. Shehata MA, et al. J Laryngol Otol 1989 Sep;103(9):856–60
Bacillaemia in leprosy and effect of multidrug therapy. Chatterjee G, et al. Lepr Rev 1989 Sep;60(3):197–201
Activity of rifabutin alone and in combination with clofazimine, kanamycin and ethambutol against Mycobacterium intracellulare infections in mice. Saito H, et al. Tubercle 1989 Sep;70(3):201–5
Clofazimine for the treatment of fistulous withers in three horses. Knottenbelt DC, et al. Vet Rec 1989 Nov 11; 125(20):509–10

TOXICITY

Evaluation of genotoxicity of clofazimine, an antileprosy drug, in mice in vivo. I. Chromosome analysis in bone marrow and spermatocytes. Das RK, et al. Mutat Res 1990 Jun;241(2):161–8
Evaluation of genotoxicity of clofazimine, an antileprosy drug, in mice in vivo. II. Micronucleus test in bone marrow and hepatocytes. Roy B, et al. Mutat Res 1990 Jun; 241(2):169–73

CLOFENAPATE see under BUTYRATES

CLOFEZONE see under PHENYLBUTAZONE

CLOFIBRATE

ANALOGS & DERIVATIVES

The effect of Etofibrate (Lipo-Merz) on "in vitro" cellular immune response and on lipid parameters of men with myocardial infarction and with arteriosclerosis obliterans. Horváth M, et al. Allergol Immunopathol (Madr) 1990 Mar–Apr;18(2):95–9
The effect of beclobric acid and clofibric acid on peroxisomal beta-oxidation and peroxisome proliferation in primary cultures of rat, monkey and human hepatocytes. Blaauboer BJ, et al. Biochem Pharmacol 1990 Aug 1;40(3):521–8
In vivo and in vitro peroxisome proliferation properties of selected clofibrate analogues in the rat. Structure-activity relationships. Esbenshade TA, et al. Biochem Pharmacol 1990 Sep 15;40(6):1263–74
Quantitative assessment of enzyme induction by peroxisome proliferators and application to determination of effects on triglyceride biosynthesis in primary cultures of rat hepatocytes. Kocarek TA, et al. Biochem Pharmacol 1989 Dec 1;38(23):4169–76
Characterization of the hepatic responses to the short-term administration of ciprofibrate in several rat strain. Co-induction of microsomal cytochrome P-450 IVA1 and peroxisome proliferation. Makowska JM, et al. Biochem Pharmacol 1990 Sep 1;40(5):1083–93
Species differences in the hepatic response to a potent peroxisome proliferator. Makowska JM, et al. Biochem Soc Trans 1989 Dec;17(6):1072–3
The influence of renal insufficiency and haemodialysis on the kinetics of ciprofibrate. Ferry N, et al. Br J Clin Pharmacol 1989 Dec;28(6):675–81
Relationship between hepatic peroxisome proliferation and 8-hydroxydeoxyguanosine formation in liver DNA of rats following long-term exposure to three peroxisome proliferators; di(2-ethylhexyl) phthalate, aluminium clofibrate and simfibrate. Takagi A, et al. Cancer Lett 1990 Aug;53(1):33–8
Evaluation of liver cell proliferation during ciprofibrate-induced hepatocarcinogenesis. Yeldandi AV, et al. Cancer Lett 1989 Sep 15;47(1–2):21–7
Peroxisome proliferator-induced alterations in the expression and modification of rat hepatocyte plasma membrane proteins. Bartles JR, et al. Cancer Res 1990 Feb 1; 50(3):669–76
Effect of peroxisome proliferators on intrachromosomal and interchromosomal recombination in yeast. Schiestl RH, et al. Carcinogenesis 1990 Jan;11(1):173–6
Palmitoyl-CoA and the acyl-CoA thioester of the carcinogenic peroxisome-proliferator ciprofibrate potentiate diacylglycerol-activated protein kinase C by decreasing the phosphatidylserine requirement of the enzyme. Orellana A, et al. Eur J Biochem 1990 May 31; 190(1):57–61
Peroxisome proliferators enhance linoleic acid metabolism in rat liver. Increased biosynthesis of omega 6 polyunsaturated fatty acids. Kawashima Y, et al. J Biol Chem 1990 Jun 5;265(16):9170–5
Effect of dietary vitamin E on the development of altered hepatic foci and hepatic tumors induced by the peroxisome proliferator ciprofibrate. Glauert HP, et al. J Cancer Res Clin Oncol 1990;116(4):351–6
Biologic properties of romazarit (Ro 31–3948), a potential disease-modifying antirheumatic drug. Bloxham DP, et al. J Pharmacol Exp Ther 1990 Mar;252(3):1331–40
The effect of etofibrate on cholesterol and bile acid metabolism in the hamster. De Fabiani E, et al. Pharmacol Res 1989 Sep–Oct;21(5):567–76
Effect of ciprofibrate, bezafibrate, and LY171883 on peroxisomal beta-oxidation in cultured rat, dog, and rhesus monkey hepatocytes. Foxworthy PS, et al. Toxicol Appl Pharmacol 1990 Jul;104(3):386–94
Induction of peroxisome proliferation in rainbow trout exposed to ciprofibrate. Yang JH, et al. Toxicol Appl Pharmacol 1990 Jul;104(3):476–82
Effect of the peroxisome proliferator ciprofibrate on hepatic DNA synthesis and hepatic composition following partial hepatectomy in rats. Srinivasan SR, et al. Toxicology 1990 Jun;62(3):321–32
Effect of etofibrate on the development and the regression of atheromas in a rabbit model of atherosclerosis. Betz E, et al. Vasa 1990;19(2):157–60
[Etolip and Lipanthyl in the treatment of hyperlipoproteinemia] Celka R, et al. Vnitr Lek 1990 Apr; 36(4):363–7 (Eng. Abstr.) (Cze)
[Toxic myopathy due to hypolipemic agents (letter)] Bourrier P, et al. Therapie 1990 Jul–Aug;45(4):360 (Fre)
[The pharmacokinetics of hypolipemic agents. 6. Is 2-(4-(2,2-dichlorocyclopropyl)-phenoxy)-propane a metabolite of the hypolipemic ciprofibrate?] Oelschläger H, et al. Arch Pharm (Weinheim) 1989 Oct;322(10):629–32 (Eng. Abstr.) (Ger)
[Lipid therapy with etofibrate. Reduction of multiple risk factors with an active substance. Report of an international seminar. 8–11 November 1989, Houston, Texas] Fortschr Med 1990;108 Suppl 85:1–15 (Ger)
[The action of a fibric acid derivative on lipid metabolism] Filip M, et al. Rev Med Chir Soc Med Nat Iasi 1989 Jul–Sep;93(3):573–6 (Eng. Abstr.) (Rum)

PHARMACOLOGY

The effect of clofibrate on platelets. Mustard JF. Am Heart J 1968 Sep;76(3):436
Chain elongation of fatty acids in rat small intestine: subcellular localization and effects of clofibrate and partially hydrogenated fish oil. Thomassen MS, et al. Ann Nutr Metab 1990;34(1):13–20
Different regulation of hepatic peroxisomal beta-oxidation activity in rats treated with clofibrate and partially hydrogenated marine oil. Horie S, et al. Biochem Biophys Res Commun 1990 Jan 30;166(2):780–6
Effect of clofibrate on peroxisomal lignoceroyl-CoA ligase activity. Yoshida Y, et al. Biochem Med Metab Biol 1990 Feb;43(1):22–9
Role of hepatic and renal cytochrome P-450 IVA1 in the metabolism of lipid substrates. Sharma RK, et al. Biochem Pharmacol 1989 Oct 15;38(20):3621–9
Induction of fatty acid binding protein by peroxisome proliferators in primary hepatocyte cultures and its relationship to the induction of peroxisomal beta-oxidation. Brandes R, et al. Biochim Biophys Acta 1990 Apr 23; 1034(1):53–61
Effects of dietary treatment with clofibrate, nafenopin or WY-14.643 on mitochondria and DNA in mouse liver. Lundgren B, et al. Biochim Biophys Acta 1990 Aug 17; 1035(2):132–8
Proliferative response of foetal liver peroxisomes to clofibrate treatment of pregnant rats. A quantitative evaluation. Stefanini S, et al. Biol Cell 1989;67(3):299–305
Clofibrate raises human 24 h intragastric acidity but does not affect plasma gastrin concentration. Gavey CJ, et al. Br J Clin Pharmacol 1990 Apr;29(4):473–7
Modulatory interaction between initial clofibrate treatment and subsequent administration of 2-acetylaminofluorene or sodium phenobarbital on glutathione S-transferase positive lesion development. Mutai M, et al. Cancer Lett 1990 Feb; 49(2):127–32
Effects of hypolipidemic drugs nafenopin and clofibrate on phenotypic expression and cell death (apoptosis) in altered foci of rat liver. Gerbracht U, et al. Carcinogenesis 1990 Apr;11(4):617–24
Modulation of diethylnitrosamine-initiated placental glutathione S-transferase positive preneoplastic and neoplastic lesions by clofibrate, a hepatic peroxisome proliferator. Hosokawa S, et al. Carcinogenesis 1989 Dec; 10(12):2237–41
Effect of peroxisome proliferators on intrachromosomal and interchromosomal recombination in yeast. Schiestl RH, et al. Carcinogenesis 1990 Jan;11(1):173–6
Morphological transformation and catalase activity of Syrian hamster embryo cells treated with hepatic peroxisome proliferators, TPA and nickel sulphate. Mikalsen SO, et al. Cell Biol Toxicol 1990 Jan;6(1):1–13
Differential effects of dehydroepiandrosterone and clofibrate on the binding of 7,12-dimethyl benz(a)anthracene to hepatic DNA in vivo—a preliminary study. Prasanna HR, et al. Drug Chem Toxicol 1989 Sep–Dec;12(3–4):327–35
Beta-oxidation of valproate. II. Effects of fasting, glucose, and clofibrate in rats. Koch KM, et al. Epilepsia 1989 Nov–Dec;30(6):790–6
Effect of chronic ethanol, catalase inhibitor 3-amino-1,2,4-triazole and clofibrate treatment on lipid peroxidation in rat myocardium. Antonenkov VD, et al. Int J Biochem 1989;21(12):1313–8
Peroxisomal and mitochondrial beta-oxidation of monocarboxylyl-CoA, omega-hydroxymonocarboxylyl-CoA and dicarboxylyl-CoA esters in tissues from untreated and clofibrate-treated rats. Vamecq J, et al. J Biochem (Tokyo) 1989 Aug;106(2):216–22
Effects of clofibrate treatment and of starvation on peroxisomes, mitochondria, and lipid droplets in mouse hepatocytes: a morphometric study. Meijer J, et al. J Ultrastruct Mol Struct Res 1989 Apr;102(1):87–94
Effects of clofibrate on the main regulatory enzymes of cholesterogenesis. Castillo M, et al. Life Sci 1990; 46(6):397–403
Sensitization of chronic myeloid leukemia cells to adriamycin cytotoxicity by clofibrate. Parekh H, et al. Tumori 1990 Feb 28;76(1):18–21
Cytochrome P-450 in the housefly: induction, substrate specificity and comparison to three rat hepatic isoenzymes. Clarke SE, et al. Xenobiotica 1989 Oct;19(10):1175–80
Proliferation of peroxisomes and induction of cytosolic and microsomal epoxide hydrolases in different strains of mice and rats after dietary treatment with clofibrate. Lundgren B, et al. Xenobiotica 1989 Aug;19(8):867–81
[Treatment of essential hypercholesterolemia by normolipidemic drugs in children] Boucherle A, et al. Pediatrie 1989;44(8):633–6 (Eng. Abstr.) (Fre)

THERAPEUTIC USE

Clinical trials with gugulipid. A new hypolipidaemic agent. Nityanand S, et al. J Assoc Physicians India 1989 May; 37(5):323–8
Plasma cortisol and testosterone in hypercholesterolaemia treated with clofibrate and lovastatin. Mastroberardino G, et al. J Int Med Res 1989 Jul–Aug;17(4):388–94
The hypolipidemic effects of lovastatin and clofibrate alone and in combination in patients with type III hyperlipoproteinemia. Illingworth DR, et al. Metabolism 1990 Apr;39(4):403–9
Noninvasive assessment of lipid disposition in treated and untreated atherosclerotic rabbits. DeForge LE, et al. Pharm Res 1989 Dec;6(12):1011–6
[Comparison of the lowering effect on blood cholesterol of clofibrate and simvastatin] Gavelli MS, et al. Clin Ter 1990 May 15;133(3):145–50 (Eng. Abstr.) (Ita)
[The effect of nitrates and miskleron on the prostacyclin-thromboxane ratio and on the functional activity of the thrombocytes in stenocardia patients] Volkov VI, et al. Vrach Delo 1989 Nov;(11):60–2 (Eng. Abstr.) (Rus)

TOXICITY

Relationship between hepatic peroxisome proliferation and 8-hydroxydeoxyguanosine formation in liver DNA of rats following long-term exposure to three peroxisome proliferators; di(2-ethylhexyl) phthalate, aluminium clofibrate and simfibrate. Takagi A, et al. Cancer Lett 1990 Aug;53(1):33–8
Comparative study of diethylnitrosamine-initiated two-stage hepatocarcinogenesis in C3H, C57BL and BALB mice promoted by various hepatopromoters. Lee GH, et al. Carcinogenesis 1989 Dec;10(12):2227–30
Hepatotoxicity due to clofibrate is oxygen-dependent in the perfused rat liver. Keller BJ, et al. Toxicol Appl Pharmacol 1990 Jun 15;104(2):259–66
Long-term effects of peroxisome proliferators on the balance between hydrogen peroxide-generating and scavenging capacities in the liver of Fischer-344 rats. Tamura H, et al. Toxicology 1990 Aug;63(2):199–213

CLOFIBRIC ACID see under CLOFIBRATE

CLOMIFEN see CLOMIPHENE

CLOMIPHENE

Biochemical studies following ovulation induction with clomiphene citrate and human menopausal gonadotropin in infertile Indian women. Chaudhuri C, et al. **Int J Fertil** 1990 Jan–Feb;35(1):58–64

ADMINISTRATION & DOSAGE

Quadruplets following cessation of clomiphene citrate. A case of sustained effect. Ben–Shlomo I, et al. **Acta Obstet Gynecol Scand** 1989;68(4):379–80

Comparison of five clomiphene citrate dosage regimens: follicular recruitment and distribution in the human ovary. Shalev J, et al. **Fertil Steril** 1989 Oct;52(4):560–3

[Serum estradiol, testosterone and gonadotropins in clomiphene stimulation of patients in an IVF program] Urbancsek J, et al. **Arch Gynecol Obstet** 1989; 245(1–4):863–5 (Ger)

[Dehydroepiandrosterone sulfate (DHEAS) concentration changes in clomiphene therapy?] van der Weiden RM, et al. **Geburtshilfe Frauenheilkd** 1990 Mar;50(3):212–4 (Eng. Abstr.) (Ger)

[Ovulation induction using clomiphene conversion] Ulrich U, et al. **Zentralbl Gynakol** 1990;112(8):501–3 (Eng. Abstr.) (Ger)

[Evaluation of the treatment of ovarian infertility in women with moderate hyperprolactinemia] Jakowicki J, et al. **Ginekol Pol** 1989 Feb;60(2):73–7 (Eng. Abstr.) (Pol)

ADVERSE EFFECTS

Follicular stimulation and ovarian cancer [letter] Kulkarni R, et al. **BMJ** 1989 Sep 16;299(6701):740

Bilateral simultaneous tubal pregnancies following clomiphene citrate: a case report. Asher UA, et al. **Isr J Med Sci** 1990 Apr;26(4):222–4

The occurrence of ectopic pregnancy with and without clomiphene citrate use in assisted and nonassisted reproductive technology. Dickey RP, et al. **J In Vitro Fert Embryo Transf** 1989 Oct;6(5):294–7

Ovulation induction with clomiphene and the rise in heterotopic pregnancies. A report of two cases. Glassner MJ, et al. **J Reprod Med** 1990 Feb;35(2):175–8 (12 ref.)

Severe ovarian hyperstimulation syndrome and deep venous thrombosis [letter] Kaaja R, et al. **Lancet** 1989 Oct 28; 2(8670):1043

Endometriosis and clomiphene citrate [letter] Svigos JM. **Lancet** 1990 Feb 24;335(8687):475

A rapid evolution mechanism may contribute to changes in sex ratio, multiple birth incidence, frequency of auto–immune disease and frequency of birth defects in Clomid conceptions. Fischer K. **Med Hypotheses** 1990 Jan; 31(1):59–65

[Psychotic illness during treatment with clomifen] Kapfhammer HP, et al. **Dtsch Med Wochenschr** 1990 Jun 15;115(24):936–9 (Eng. Abstr.) (Ger)

DIAGNOSTIC USE

Prediction of individual response to controlled ovarian hyperstimulation by means of a clomiphene citrate challenge test. Loumaye E, et al. **Fertil Steril** 1990 Feb; 53(2):295–301

PHARMACOLOGY

Mechanism of the stimulatory effect of Clomid on aromatization of steroids by human placenta in vitro. Hagerman DD, et al. **Acta Endocrinol (Copenh)** 1966 Apr; 51(4):591–8

Effects of clomiphene on ovarian ascorbic acid and the response to luteinizing hormone. Mayfield JD, et al. **Acta Endocrinol (Copenh)** 1966 Apr;51(4):557–62

The action of clomiphene on hormonal secretions. The endometrial response. Ancla M, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1043–9

Peri–implantation phase endometrial estrogen and progesterone receptors: effect of ovulation induction with clomiphene citrate. Hecht BR, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1688–93

Male sex preselection: swim–up technique and insemination of women after ovulation induction. Check JH, et al. **Arch Androl** 1989;23(2):165–6

Tamoxifen treatment in women with failure of clomiphene citrate therapy. Borenstein R, et al. **Aust N Z J Obstet Gynaecol** 1989 May;29(2):173–5

Clomiphene citrate and ovarian resistance. McKenna KM, et al. **Aust N Z J Obstet Gynaecol** 1989 May;29(2):179–82

Effects of clomiphene and tamoxifen in vivo on the bone–resorbing effects of parathyroid hormone and of high oral doses of calcitriol (1,25(OH)2D3) in rats with intact ovarian function consuming low calcium diet. Goulding A, et al. **Bone Miner** 1990 Mar;8(3):185–93

Further observations on the induction of ovulation with clomiphene. Charles D, et al. **Fertil Steril** 1966 May–Jun; 17(3):351–62

Induction of ovulation with clomiphene citrate. A double–blind study. Cudmore DW, et al. **Fertil Steril** 1966 May–Jun;17(3):363–73

Effects of gonadotropin–releasing hormone agonist and clomiphene citrate on estrogen/progesterone–induced hyperprolactinemia in monkeys. Groff TR, et al. **Fertil Steril** 1990 Feb;53(2):346–50

Effect of clomiphene citrate on endometrial receptivity [letter] Harper MJ. **Fertil Steril** 1990 Sep;54(3):542

Clomiphene citrate directly impairs endometrial receptivity in the mouse. Nelson LM, et al. **Fertil Steril** 1990 Apr; 53(4):727–31

Pulsatility of serum–luteinizing hormone during hyperstimulation with clomiphene citrate and human menopausal gonadotropin for in vitro fertilization. Wolfram J, et al. **Fertil Steril** 1989 Nov;52(5):817–20

Effects of estrogens, clomiphene and castration in a male transsexual with as compared to those without hypersecretion of gonadotropins. Goh HH, et al. **Gynecol Endocrinol** 1990 Jun;4(2):127–41

Effect of clomiphene citrate on oestrogen secretion by human granulosa cells in culture. Bussenot I, et al. **Hum Reprod** 1990 Jul;5(5):533–6

Experience with a new fixed–stimulation protocol without hormone determinations for programmed oocyte retrieval for in–vitro fertilization. Kemeter P, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):53–8

Anti–oestrogenic effect of clomiphene citrate in oestrogen–treated, hypogonadal women. Messinis IE, et al. **Hum Reprod** 1990 Feb;5(2):150–2

Reversal by human chorionic gonadotropin of the inhibitory effect of clomiphene on progesterone production by granulosa–luteal cells in culture. Lavy G, et al. **Int J Fertil** 1989 Sep–Oct;34(5):359–62

Responses of luteinizing hormone and prolactin plasma concentrations to oral administrations of clomiphene citrate in broody turkey hens. Guemene D, et al. **Poult Sci** 1989 Nov;68(11):1592–4

[Pseudopregnancy in the rabbit as a luteal phase model: steroid and proteohormone level following clomiphene citrate treatment] Meyer–Wittkopf M, et al. **Arch Gynecol Obstet** 1989;245(1–4):1030–2 (Ger)

THERAPEUTIC USE

Addition of exogenous estrogens to improve cervical mucus following clomiphene citrate medication. Patient selection. Kokia E, et al. **Acta Obstet Gynecol Scand** 1990; 69(2):139–42

Ovulation following combined therapy with wen–jing–tang and clomiphene citrate therapy in anovulatory women. Yoshimoto Y, et al. **Am J Chin Med** 1989;17(3–4):243–4

Clomid therapy for anovulatory infertility. Kase N, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1037–42

Effect of clomiphene citrate on oligospermia. Mroueh A, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1033–6

The role of chronic anovulation in the polycystic ovary syndrome: normalization of sex–hormone–binding globulin levels after clomiphene–induced ovulation. Eden JA, et al. **Clin Endocrinol (Oxf)** 1989 Mar;30(3):323–32

Comparative trial of luteinizing hormone–releasing hormone analog/human menopausal gonadotropin and clomiphene citrate/human menopausal gonadotropin in an assisted conception program. Abdalla HI, et al. **Fertil Steril** 1990 Mar;53(3):473–8

Pregnancy after transfer of cryopreserved embryos in clomiphene citrate resistant polycystic ovarian syndrome. Dale PO, et al. **Fertil Steril** 1990 Feb;53(2):362–4

Evaluation of leuprolide acetate and gonadotropins versus clomiphene citrate and gonadotropins for in vitro fertilization or gamete intrafallopian transfer. Ferrier A, et al. **Fertil Steril** 1990 Jul;54(1):90–5

Efficacy of clomiphene citrate in the treatment of luteal phase deficiency: quantity versus quality of preovulatory follicles. Guzick DS, et al. **Fertil Steril** 1990 Aug;54(2):206–10

Transient hyperprolactinemia during cycle stimulation and its influence on oocyte retrieval and fertilization rates. Hummel WP, et al. **Fertil Steril** 1990 Apr;53(4):677–81

Treatment of clomiphene citrate–resistant polycystic ovarian syndrome with pure follicle–stimulating hormone or human menopausal gonadotropin. McFaul PB, et al. **Fertil Steril** 1990 May;53(5):792–7

Intrauterine insemination does and clomiphene citrate does not improve fecundity in couples with infertility due to male or idiopathic factors: a prospective, randomized, controlled study. Martinez AR, et al. **Fertil Steril** 1990 May;53(5):847–53

Normoprolactinemic anovulation nonresponsive to clomiphene citrate: ovulation induction with bromocriptine. Porcile A, et al. **Fertil Steril** 1990 Jan; 53(1):50–5

The effect of therapy initiation day on clomiphene citrate therapy. Wu CH, et al. **Fertil Steril** 1989 Oct;52(4):564–8

Clomiphene treatment for women with unexplained infertility: placebo–controlled study of hormonal responses and conception rates. Glazener CM, et al. **Gynecol Endocrinol** 1990 Jun;4(2):75–83

Clomiphene citrate and LH pulsatility in PCO syndrome. Sir T, et al. **Horm Metab Res** 1989 Oct;21(10):583

Preovulatory luteinization during induction of follicular maturation with menotrophin and menotrophin—clomiphene combination. Birkenfeld A, et al. **Hum Reprod** 1990 Jul;5(5):561–4

Low multiple pregnancy rate in combined clomiphene citrate—human menopausal gonadotrophin treatment for ovulation induction or enhancement. Ron–el R, et al. **Hum Reprod** 1989 Jul;4(5):495–500

A short course of menotropin after clomiphene failure in infertile women with luteal phase defects. Wu CH. **J Reprod Med** 1989 Oct;34(10):807–10

Detection of the time of ovulation in clomiphene stimulated cycles with an easily applicable urine test. Lehmann–Willenbrock E, et al. **Zentralbl Gynakol** 1990; 112(5):279–83

[Short–term effect of clomiphene citrate on hypophyseal gonadotrophin release] Eva–Tabitha T, et al. **Arch Gynecol Obstet** 1989;245(1–4):1028–30 (Ger)

[Clomiphene citrate ointment in the local treatment of condylomata acuminata] Fitz R, et al. **Wien Klin Wochenschr** 1990 May 25;102(11):337–8 (Eng. Abstr.) (Ger)

TOXICITY

Pituitary–related weight changes affecting the liver, uterus and adrenal glands of rats treated with hexoestrol and clomiphene in high doses. Hart JE. **Toxicology** 1990 Apr 17;61(2):185–94

CLOMIPRAMINE

Diminished sexual activity in a new animal model of endogenous depression. Neill D, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):73–6

ADMINISTRATION & DOSAGE

Differential drug response of panic and agoraphobic avoidance in a case of panic disorder. Klein E, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):86–7

Intravenous chlorimipramine therapy in obsessive–compulsive disorder. Warneke L. **Can J Psychiatry** 1989 Dec;34(9):853–9

[Introduction of chronopharmacologic therapy of depressive disorders—a double–blind study using clomipramine] Nagayama H, et al. **Seishin Shinkeigaku Zasshi** 1989; 91(9):642–7 (Jpn)

[Treatment of drug–resistant depression by intravenous administration of antidepressants] Kielholz P. **Zh Nevropatol Psikhiatr** 1990;90(4):53–6 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Treatment of clomipramine–induced anorgasmia with yohimbine: a case report. Price J, et al. **J Clin Psychiatry** 1990 Jan;51(1):32–3

Non–narcotic withdrawal syndrome in a neonate due to maternal clomipramine therapy [letter] Singh S, et al. **J Paediatr Child Health** 1990 Apr;26(2):110

Jerk–locked averaging and somatosensory evoked potential in tricyclic–induced myoclonus: a case report. Fukuzako H, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):645–9

Rebound withdrawal reactions due to clomipramine. Diamond BI, et al. **Psychopharmacol Bull** 1989;25(2):209–12

[Kleine–Levin syndrome. The provocation of manic symptoms by an antidepressant and a therapeutic trial of carbamazepine] Wurthmann C, et al. **Dtsch Med Wochenschr** 1989 Oct 6;114(40):1528–31 (Eng. Abstr.) (Ger)

[A manic episode in a female patient with obsessive–compulsive disorder treated with chlorimipramine (letter)] Bernardo M, et al. **Med Clin (Barc)** 1989 Oct 7;93(10):395 (Spa)

ANALOGS & DERIVATIVES

The relationship of plasma clomipramine and N–desmethylclomipramine to response in obsessive–compulsive disorder. Mavissakalian M, et al. **Psychopharmacol Bull** 1990;26(1):119–22

ANALYSIS

Fly larvae: a new toxicological method of investigation in forensic medicine. Kintz P, et al. **J Forensic Sci** 1990 Jan; 35(1):204–7

DIAGNOSTIC USE

Abnormal neuroendocrine responsivity to acute i.v. clomipramine challenge in depressed patients. Golden RN, et al. **Psychiatry Res** 1990 Jan;31(1):39–47

PHARMACOKINETICS

Clomipramine metabolism. Model–based analysis of variability factors from drug monitoring data. Gex–Fabry M, et al. **Clin Pharmacokinet** 1990 Sep;19(3):241–55

Post–mortem drug redistribution—a toxicological nightmare. Pounder DJ, et al. **Forensic Sci Int** 1990 Apr;45(3):253–63

PHARMACOLOGY

Clomipramine and clomipramine–analgesic combinations in rats: antinociceptive activity, behavioral changes, brain serotonin and noradrenaline. Opavský J, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):149–51

The effect of clomipramine treatment on plasma lipoproteins and high density lipoprotein subfractions in healthy subjects. Skinner ER, et al. **Clin Chim Acta** 1989 Sep 29; 184(2):147–54

Clomipramine. An overview of its pharmacological properties and a review of its therapeutic use in obsessive compulsive disorder and panic disorder. McTavish D, et al. **Drugs** 1990 Jan;39(1):136–53 (83 ref.)

Apparent down-regulation of rat brain mu- and kappa-opioid binding sites labelled with [3H]cycloFOXY following chronic administration of the potent 5-hydroxytryptamine reuptake blocker, clomipramine. Benkelfat C, et al. **J Pharm Pharmacol** 1989 Dec; 41(12):865–7

Neuroendocrine response to clomipramine and desipramine—the evidence of partial determination by heredity and sex. Filip V, et al. **Neuropsychobiology** 1989; 21(3):111–6

REM sleep abnormalities in a new animal model of endogenous depression. Vogel G, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):77–83

Both single-dose and repeated administration of clomipramine reduces the behavioural response to intrathecal capsaicin in mice. Rosland JH, et al. **Pharmacol Toxicol** 1989 Sep;65(3):189–91

Evaluation and comparison of the interaction between alcohol and moclobemide or clomipramine in healthy subjects. Berlin I, et al. **Psychopharmacology (Berl)** 1990; 100(1):40–5

THERAPEUTIC USE

Effect of clomipramine on premenstrual syndrome. Eriksson E, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):87–8

The effects of total sleep deprivation and subsequent treatment with clomipramine on depressive symptoms and sleep electroencephalography in patients with a major depressive disorder. Riemann D, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):24–31

The therapeutic efficacy of paroxetine: (a) an open study in patients with major depression not responding to antidepressants; (b) a double-blind comparison with amitriptyline in depressed outpatients. Gagiano CA, et al. **Acta Psychiatr Scand Suppl** 1989;350:130–1

A double-blind, multicentre study of paroxetine versus clomipramine in depressed elderly patients. Guillibert E, et al. **Acta Psychiatr Scand Suppl** 1989;350:132–4

Treatment of obsessive-compulsive disorder with clomipramine and desipramine in children and adolescents. A double-blind crossover comparison. Leonard HL, et al. **Arch Gen Psychiatry** 1989 Dec;46(12):1088–92

Clomipramine efficacy for tics, obsessions, and compulsions in Tourette's syndrome and obsessive-compulsive disorder: a case study. Ratzoni G, et al. **Biol Psychiatry** 1990 Jan 1;27(1):95–8

Obsessive-compulsive rituals [letter] Marks I, et al. **Br J Psychiatry** 1989 Apr;154:565–7

Clomipramine: an antiobsessional tricyclic antidepressant. Peters MD 2d, et al. **Clin Pharm** 1990 Mar;9(3):165–78 (87 ref.)

Clomipramine: a tricyclic antidepressant effective in obsessive compulsive disorder. Kelly MW, et al. **DICP** 1990 Jul–Aug;24(7–8):739–44 (64 ref.)

Clomipramine and mianserin in the treatment of chronic tension headache. A double-blind, controlled study. Langemark M, et al. **Headache** 1990 Feb;30(3):118–21

Paroxetine: a selective serotonin reuptake inhibitor showing better tolerance, but weaker antidepressant effect than clomipramine in a controlled multicenter study. Danish University Antidepressant Group. **J Affective Disord** 1990 Apr;18(4):289–99

Plasma ratio tryptophan/neutral amino acids in relation to clinical response to paroxetine and clomipramine in patients with major depression. Møller SE, et al. **J Affective Disord** 1990 Jan;18(1):59–66

Clomipramine and obsessive compulsive disorder: a placebo-controlled double-blind study of 32 patients. Greist JH, et al. **J Clin Psychiatry** 1990 Jul;51(7):292–7

Worldwide use of clomipramine. Trimble MR. **J Clin Psychiatry** 1990 Aug;51 Suppl:51–4; discussion 55–8 (45 ref.)

Clomipramine versus fluoxetine in obsessive-compulsive disorder: a retrospective comparison of side effects and efficacy. Jenike MA, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):122–4

Absence of placebo response in obsessive-compulsive disorder. Mavissakalian MR, et al. **J Nerv Ment Dis** 1990 Apr;178(4):268–70

Delusional depression responding to clomipramine in Binswanger's disease. Turkington D, et al. **J Nerv Ment Dis** 1990 Jul;178(7):459–60

From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Apr 11;263(14):1896

Effect of clomipramine on myotonia: a placebo-controlled, double-blind, crossover trial. Antonini G, et al. **Neurology** 1990 Sep;40(9):1473–4

Pharmacotherapy of obsessive-compulsive disorder. Jermain DM, et al. **Pharmacotherapy** 1990;10(3):175–98 (103 ref.)

The antiobsessional effects of clomipramine do not require concomitant affective disorder. Katz RJ, et al. **Psychiatry Res** 1990 Feb;31(2):121–9

Clomipramine and EEG sleep in depression. Kupfer DJ, et al. **Psychiatry Res** 1989 Nov;30(2):165–80

Clinical predictors of treatment response in obsessive compulsive disorder: exploratory analyses from multicenter trials of clomipramine. DeVeaugh-Geiss J, et al. **Psychopharmacol Bull** 1990;26(1):54–9

The relationship of plasma clomipramine and N-desmethylclomipramine to response in obsessive-compulsive disorder. Mavissakalian M, et al. **Psychopharmacol Bull** 1990;26(1):119–22

Detection of populations at risk using drug monitoring data. Balant-Gorgia AE, et al. **Psychopharmacol Ser** 1989; 7:228–31

[Theoretical and methodologic bases of systems in psychiatry] Jakubik A. **Psychiatr Pol** 1989 Jan–Feb; 23(1):1–9 **(Pol)**

[Clinical evaluation of Hydiphen in the treatment of endogenous depression] Nowakowska C, et al. **Psychiatr Pol** 1989 Jan–Feb;23(1):10–7 (Eng. Abstr.) **(Pol)**

CLONAZEPAM

ADMINISTRATION & DOSAGE

Potentiation of the anticonvulsant action of clonazepam by phenytoin could be demonstrated in adult as well as young rats. Kubová H, et al. **Act Nerv Super (Praha)** 1989 Oct; 31(3):237

Formulation factors influencing the release of clonazepam from a carbopol hydrogel. Mura P, et al. **Boll Chim Farm** 1989 Nov;128(11):326–31

Adjunctive clonazepam for maintenance treatment of bipolar affective disorder. Sachs GS, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):42–7

Successful therapeutic intervention in a schizophrenic patient with blepharospasm [letter; comment] Ballard CG. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1312 Comment on: J Neurol Neurosurg Psychiatry 1989 Apr;52(4):477–80.

ADVERSE EFFECTS

Sexual dysfunction associated with diazepam but not with clonazepam [letter] Balon R, et al. **Can J Psychiatry** 1989 Dec;34(9):947–8

Seizure in gradual clonazepam withdrawal, Vol. 14, No. 3, September, 1989, p. 484 [letter; comment] Alvarez WA, et al. **Psychiatr J Univ Ott** 1990 Mar;15(1):64 Comment on: Psychiatr J Univ Ott 1989 Sep;14(3):484.

Seizure in gradual clonazepam withdrawal [see comments] Wong T, et al. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):484 Comment in: Psychiatr J Univ Ott 1990 Mar;15(1):64.

BLOOD

[Determination of unchanged clonazepam in plasma by gas-liquid chromatography] Marliac Y, et al. **Ann Biol Clin (Paris)** 1989;47(8):503–6 (Eng. Abstr.) **(Fre)**

PHARMACOKINETICS

Clinical relevance of therapeutic drug level estimation with respect to clonazepam and carbamazepine: preliminary report. Beran RG, et al. **Clin Exp Neurol** 1987;24:91–5

Kinetic and dynamic components of increased benzodiazepine sensitivity in aging animals. Barnhill JG, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1153–61

[Therapeutic drug monitoring of clonazepam, nitrazepam and diazepam] Hishida H. **Nippon Rinsho** 1990 Feb;48 Suppl:1116–9 **(Jpn)**

PHARMACOLOGY

Respiratory and sedative effects of clobazam and clonazepam in volunteers. Wildin JD, et al. **Br J Clin Pharmacol** 1990 Feb;29(2):169–77

Effects of clobazam and clonazepam on saccadic eye movements and other parameters of psychomotor performance. van der Meyden CH, et al. **Eur J Clin Pharmacol** 1989;37(4):365–9

Effects of phenytoin, carbamazepine, and clonazepam on cortex- and amygdala-evoked potentials in partially kindled rats. Burnham WM, et al. **Exp Neurol** 1989 Nov; 106(2):150–5

The antimyoclonic action of clonazepam through a GABA—independent mechanism. Paul V, et al. **Indian J Physiol Pharmacol** 1989 Oct–Dec;33(4):243–6

Effects of carbamazepine, valproate calcium, clonazepam and piracetam on behavioral test methods for evaluation of memory-enhancing drugs. Rostock A, et al. **Methods Find Exp Clin Pharmacol** 1989 Sep;11(9):547–53

Chronic clonazepam administration decreases gamma-aminobutyric acidA receptor function in cultured cortical neurons. Miller LG, et al. **Mol Pharmacol** 1989 Nov;36(5):796–802

Involvement of the "peripheral" benzodiazepine receptor type (omega 3) in the tolerance to the electroencephalographic effects of benzodiazepines in rats: comparison of diazepam and clonazepam. Massotti M, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):933–6

The effect of the NMDA receptor antagonist, MK-801, on the course and outcome of kindling. Mintz M, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):815–21

THERAPEUTIC USE

Hereditary cerebellar degeneration with downbeat nystagmus. A case and it's treatment. McConnell HW, et al. **Acta Neurol Scand** 1990 May;81(5):423–6

Effect of clonazepam on neuroleptic-induced oculogyric crisis. Horiguchi J, et al. **Acta Psychiatr Scand** 1989 Nov; 80(5):521–3

Clonazepam in treatment of bipolar psychotic patients after discontinuation of neuroleptics [letter] Chouinard G. **Am J Psychiatry** 1989 Dec;146(12):1642

Clonazepam treatment of tardive dyskinesia: a practical GABAmimetic strategy. Thaker GK, et al. **Am J Psychiatry** 1990 Apr;147(4):445–51

Intermittent treatment with clonazepam in simple febrile seizures [letter] Arcas Martinez J, et al. **Brain Dev** 1990; 12(2):274–5

Social phobia and clonazepam. Ontiveros A, et al. **Can J Psychiatry** 1990 Jun;35(5):439–41

Clonazepam in juvenile myoclonic epilepsy. Obeid T, et al. **Epilepsia** 1989 Sep–Oct;30(5):603–6

Use of benzodiazepines to improve management of manic agitation [see comments] Santos AB, et al. **Hosp Community Psychiatry** 1989 Oct;40(10):1069–71 Comment in: Hosp Community Psychiatry 1990 Mar;41(3):334.

Clonazepam and lithium—a toxic combination in the treatment of mania? Koczerginski D, et al. **Int Clin Psychopharmacol** 1989 Jul;4(3):195–9

Clonazepam treatment of obsessive compulsive disorder [letter; comment] Bacher NM. **J Clin Psychiatry** 1990 Apr; 51(4):168–9 Comment on: J Clin Psychiatry 1989 Jul;50(7):265–6.

Clonazepam treatment of acute mania in an AIDS patient [letter] Budman CL, et al. **J Clin Psychiatry** 1990 May; 51(5):212

High anxiety in children. Graae F. **J Clin Psychiatry** 1990 May;51 Suppl:18–9; discussion 50–3 (13 ref.)

Clonazepam treatment of obsessions and compulsions. Hewlett WA, et al. **J Clin Psychiatry** 1990 Apr;51(4):158–61

Clonazepam in the treatment of social phobia: a pilot study. Munjack DJ, et al. **J Clin Psychiatry** 1990 May;51 Suppl:35–40; discussion 50–3

Withdrawal from alprazolam dependency using clonazepam: clinical observations. Patterson JF. **J Clin Psychiatry** 1990 May;51 Suppl:47–9; discussion 50–3

Use of clonazepam for bipolar affective disorder. Sachs GS. **J Clin Psychiatry** 1990 May;51 Suppl:31–4; discussion 50–3

Clonazepam and imipramine in the treatment of panic attacks: a double-blind comparison of efficacy and side effects. Svebak S, et al. **J Clin Psychiatry** 1990 May;51 Suppl:14–7; discussion 50–3

Successful clonazepam treatment of neuroleptic-induced akathisia in older adolescents and young adults: a double-blind, placebo-controlled study. Kutcher S, et al. **J Clin Psychopharmacol** 1989 Dec;9(6):403–6

Erythromelalgia in a patient with systemic lupus erythematosus treated with clonazepam. Kraus A. **J Rheumatol** 1990 Jan;17(1):120

Effect of intravenous injection of biperiden and clonazepam in dystonia. Povlsen UJ, et al. **Mov Disord** 1990;5(1):27–31

Clonazepam vs. neuroleptics as adjuncts to lithium maintenance. Sachs GS, et al. **Psychopharmacol Bull** 1990; 26(1):137–43

[Evaluation of antiemetic effect of clonazepam, metoclopramide, dexamethasone and diphenhydramine for prevention of cisplatin-induced vomiting] Hatae M, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 1):1495–9 (Eng. Abstr.) **(Jpn)**

[Subdural empyema successfully treated with medical therapy (letter)] Tomàs MT, et al. **Neurologia** 1989 May; 4(4):149–50 **(Spa)**

CLONE CELLS

Alternative methods of harvesting animal cell clones. Ramanujam P, et al. **Biotechniques** 1988 Jan;6(1):24, 27

The use of anti-CD3 and anti-CD28 monoclonal antibodies to clone and expand human antigen-specific T cells. Riddell SR, et al. **J Immunol Methods** 1990 Apr 17; 128(2):189–201

Cloning of embryos. Prather RS, et al. **J Reprod Fertil Suppl** 1990;40:227–34 (49 ref.)

Independent evidence for a commitment model of clonal attenuation. Angello JC, et al. **Mech Ageing Dev** 1989 Sep; 49(3):281–6

Clonally derived cell lines with altered DNA methylation as models for error correction and mutation in tumours. Diver WP, et al. **Mutagenesis** 1989 Nov;4(6):462–6

Nuclear transplantation as a method for cloning embryos. Prather RS. **Proc Soc Exp Biol Med** 1990 Oct;195(1):7–12 (54 ref.)

Murphy's law of limiting dilution cloning. Staszewski R. **Stat Med** 1990 Apr;9(4):457–61

ENZYMOLOGY

Evidence of clonal proliferation of hepatocytes after carbon-tetrachloride-induced hepatic injury in PGK-1 mosaic mice. Wada Y, et al. **Toxicol Lett** 1990 Jun; 52(1):81–90

IMMUNOLOGY

Cloning of human T cells specific for measles virus haemagglutinin and nucleocapsid. Ilonen J, et al. **Clin Exp Immunol** 1990 Aug;81(2):212–7

Antigen presentation by non-immune B-cell hybridoma clones: presentation of synthetic antigenic sites reveals clones that exhibit no specificity and clones that present only one epitope. Cohly HH, et al. **Immunol Invest** 1989 Oct;18(8):987–92

Molecular analysis of clonal stability and longevity in B cell memory. Dell CL, et al. **J Immunol** 1989 Nov 15; 143(10):3364–70

Differential expression of lymphocyte function–associated antigen 1 (LFA–1) on epidermotropic and non–epidermotropic T–cell clones. Shiohara T, et al. **J Invest Dermatol** 1989 Dec;93(6):804–8

Clonal deletion: a mechanism of tolerance in mixed bone marrow chimeras. Yu JC, et al. **J Surg Res** 1990 Jun; 48(6):517–22

Clonal deletion versus clonal anergy: the role of the thymus in inducing self tolerance. Ramsdell F, et al. **Science** 1990 Jun 15;248(4961):1342–8

A cell culture model for T lymphocyte clonal anergy. Schwartz RH. **Science** 1990 Jun 15;248(4961):1349–56

METABOLISM

Autoreactive T cell clones isolated from normal and autoimmune–susceptible mice exhibit lymphokine secretory and functional properties of both Th1 and Th2 cells. Kakkanaiah VN, et al. **Clin Immunol Immunopathol** 1990 Oct;57(1):148–62

PATHOLOGY

Clonogenicity of mammalian cells in hybrid spheroids: a new assay method. Djordjevic B, et al. **Radiat Environ Biophys** 1990;29(1):31–46

[Two–phenotype and two–clonal leukemia] Robak T. **Acta Haematol Pol** 1989 Jan–Jun;20(1):107–17 (66 ref.) **(Pol)**

RADIATION EFFECTS

[Analysis of cell kinetics after irradiation by flow cytometry (II)—Evaluation of clonogenic potential of G2 block cells after irradiation by cell sorting] Akagi K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Nov 25; 49(11):1420–6 (Eng. Abstr.) **(Jpn)**

CLONIDINE

Intrathecal clonidine in obstetrics: sheep studies. Eisenach JC, et al. **Anesthesiology** 1990 Apr;72(4):663–8

Postoperative analgesia with extradural clonidine. Bonnet F, et al. **Br J Anaesth** 1989 Oct;63(4):465–9

[Duration of analgesia after crural nerve block: effect of the addition of clonidine to xylocaine] Ang ET, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R213 **(Fre)**

[Duration of analgesia after crural nerve block: effect of the addition of clonidine to bupivacaine] Ang ET, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R212 **(Fre)**

[The prolongation of spinal anesthesia with clonidine depends on the mode of administration] Bonnet F, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R209 **(Fre)**

[Spinal anesthesia with a combination of hyperbaric tetracaine and clonidine: dose effect] Brun Buisson V, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R207 **(Fre)**

[The effect of clonidine on resuscitation from anesthesia] Sperandio M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R201 **(Fre)**

[Premedication with clonidine: effects on respiration] Veillette Y, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R202 **(Fre)**

[Klofelin as a component of general anesthesia and a means of postoperative analgesia in cancer surgery] Osipova NA, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):14–8 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Suppression of small intestinal motility and morphine withdrawal diarrhoea by clonidine: peripheral site of action. Thollander M, et al. **Acta Physiol Scand** 1989 Nov; 137(3):385–92

Clonidine–induced analgesia in postoperative patients: epidural versus intramuscular administration. Bonnet F, et al. **Anesthesiology** 1990 Mar;72(3):423–7

Topical clonidine and diabetic gastroparesis [letter] Sacerdote AS. **Ann Intern Med** 1990 May 15;112(10):796

Rapid reduction of severe asymptomatic hypertension. A prospective, controlled trial. Zeller KR, et al. **Arch Intern Med** 1989 Oct;149(10):2186–9

The promise of transdermal drug delivery. Nimmo WS. **Br J Anaesth** 1990 Jan;64(1):7–10 (23 ref.)

Effect of clonidine on post–traumatic memory deficits. McIntyre FL, et al. **Brain Inj** 1990 Apr–Jun;4(2):209–11

Evaluation of clonidine suppression of opiate withdrawal reactions: a multidisciplinary approach. Cuthill JD, et al. **Can J Psychiatry** 1990 Jun;35(5):377–82

The ophthalmic rod—a new drug–delivery system II. Alani SD, et al. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(4):302–4

Oral clonidine: an effective growth hormone provocative test. Singh SK, et al. **Indian Pediatr** 1989 Oct;26(10):1007–9

New indices in the evaluation of clonidine transdermal therapy of hypertension. de Leonardis V, et al. **Int J Clin Pharmacol Res** 1989;9(5):341–5

The clonidine patch and behavior problems [letter] Comings DE, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul; 29(4):667–8

Effect of central cholinergic neurotransmission enhancement by pyridostigmine on the growth hormone secretion elicited by clonidine, arginine, or hypoglycemia in normal and obese subjects. Cordido F, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1361–70

Low–dose clonidine administration in the treatment of mild or moderate essential hypertension: results from a double–blind placebo–controlled study (Clobass). The Clobass Study Group. **J Hypertens** 1990 Jun;8(6):539–46

Osmoregulation of vasopressin during acute lowering of arterial pressure by clonidine in moderate hypertension. Del Bo A, et al. **J Hypertens Suppl** 1989 Dec;7(6):S200–1

Treatment of post–orchiectomy hot flashes with transdermal administration of clonidine. Parra RO, et al. **J Urol** 1990 Apr;143(4):753–4

[An experimental and clinical study of the analgesic action of clofelin when administered epidurally] Ignatov IuD, et al. **Farmakol Toksikol** 1990 Mar–Apr;53(2):17–20 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Clonidine–induced immune complex disease. Petersen HH, et al. **Acta Derm Venereol (Stockh)** 1989;69(6):519–20

Involvement of hypothalamic adrenaline in the clonidine withdrawal syndrome in normotensive and spontaneously hypertensive rats. Lewis SJ, et al. **Clin Exp Pharmacol Physiol** 1988 Oct;15(10):773–80

[Clonidine modifies the hemodynamic profile in coronary bypass: double–blind, randomized study] Brusset A, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R214 **(Fre)**

[Clonidine aggravates the postoperative hemodynamic profile after coronary bypass: randomized, double–blind study] Brusset A, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R215 **(Fre)**

[Side–effects of the clonidine test in 20 children with short stature] Durá Trave T, et al. **An Esp Pediatr** 1989 Jul; 31(1):39–42 (Eng. Abstr.) **(Spa)**

ANALOGS & DERIVATIVES

Hemodynamic effects of alinidine (ST 567) at rest and during exercise in patients with chronic congestive heart failure. Koenig W, et al. **Am Heart J** 1990 Jun;119(6):1348–54

Near syncope and chest tightness after administration of apraclonidine before argon laser iridotomy. King MH, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):308–9

Delayed increased intraocular pressure after Nd:YAG laser posterior capsulotomy in a patient treated with apraclonidine. Nesher R, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):94–5

Cardiovascular and intraocular pressure effects and plasma concentrations of apraclonidine. Coleman AL, et al. **Arch Ophthalmol** 1990 Sep;108(9):1264–7

Use of apraclonidine in the treatment of acute angle closure glaucoma [letter] Krawitz PL, et al. **Arch Ophthalmol** 1990 Sep;108(9):1208–9

The effects of apraclonidine on conjunctival oxygen tension. Serdahl CL, et al. **Arch Ophthalmol** 1989 Dec; 107(12):1777–9

Antiischemic effects of alinidine in paced isolated rat hearts. Streller I, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):71–7

Efficacy and safety of apraclonidine in patients undergoing anterior segment laser surgery. Sridharrao B, et al. **Br J Ophthalmol** 1989 Nov;73(11):884–7

Astrocytes cultured from specific brain regions differ in their expression of adrenergic binding sites. Ernsberger P, et al. **Brain Res** 1990 May 28;517(1–2):202–8

Binding of [3H]p–aminoclonidine to two sites, alpha 2–adrenoceptors and imidazoline binding sites: distribution of imidazoline binding sites in rat brain. Kamisaki Y, et al. **Brain Res** 1990 Apr 23;514(1):15–21

Obesity–prone and –resistant rats differ in their brain [3H]paraminoclonidine binding. Levin BE. **Brain Res** 1990 Mar 26;512(1):54–9

Tizanidine vs. baclofen in the treatment of spasticity in patients with multiple sclerosis. Rice GP. **Can J Neurol Sci** 1989 Nov;16(4):451

Chloroethylclonidine unmasks a non–alpha–adrenoceptor noradrenaline binding site in the rat aorta. Oriowo MA, et al. **Eur J Pharmacol** 1990 Mar 20;178(2):243–6

Apraclonidine effects on ocular responses to YAG laser irradiation to the rabbit iris. Sugiyama K, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):708–14

Thyrotrophin increases the alpha 1b–adrenergic receptors in rat thyroid gland in vivo. Shimura H, et al. **J Endocrinol** 1990 Aug;126(2):317–22

Comparison of the myotonolytic activity of tizanidine, eperisone and afloqualone in mouse and rabbit. Coward DM, et al. **J Int Med Res** 1989 Jul–Aug;17(4):358–62

Modified release tizanidine: a review. Hutchinson DR. **J Int Med Res** 1989 Nov–Dec;17(6):565–73 (25 ref.)

Effects of St–587 on the alpha–adrenoceptors in the bisected rat vas deferens. Badia A, et al. **J Pharm Pharmacol** 1989 Sep;41(9):612–6

Interaction of intrathecal morphine and ST–91 on antinociception in the rat: dose–response analysis, antagonism and clearance. Monasky MS, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):383–92

Species differences in chlorethylclonidine antagonism at vascular alpha–1 adrenergic receptors. Tian WN, et al. **J Pharmacol Exp Ther** 1990 May;253(2):877–83

Pharmacodynamics and pharmacokinetics of the oral antispastic agent tizanidine in patients with spinal cord injury. Mathias CJ, et al. **J Rehabil Res Dev** 1989 Fall; 26(4):9–16

Comparative study of cardiovascular effects of clonidine and alinidine in cross–perfused dog atrial preparations. Chiba S, et al. **Jpn Heart J** 1989 Nov;30(6):895–902

p–[125I]iodoclonidine, a novel radiolabeled agonist for studying central alpha 2–adrenergic receptors. Baron BM, et al. **Mol Pharmacol** 1990 Sep;38(3):348–56

p–[125I]iodoclonidine is a partial agonist at the alpha 2–adrenergic receptor. Gerhardt MA, et al. **Mol Pharmacol** 1990 Aug;38(2):214–21

Elevated 3H–para–aminoclonidine binding to platelet purified plasma membranes from depressed patients. Piletz JE, et al. **Neuropsychopharmacology** 1990 Jun;3(3):201–10

Concomitant depression of locus coeruleus neurons and of flexor reflexes by an alpha 2–adrenergic agonist in rats: a possible mechanism for an alpha 2–mediated muscle relaxation. Palmeri A, et al. **Neuroscience** 1990;34(1):177–87

Effect of intrathecal tizanidine on antinociception and blood pressure in the rat. McCarthy RJ, et al. **Pain** 1990 Mar; 40(3):333–8

The role of apraclonidine hydrochloride in laser therapy for glaucoma. Robin AL. **Trans Am Ophthalmol Soc** 1990; 87:729–61

The role of prostaglandins in the para–aminoclonidine–induced reduction of intraocular pressure. Wang RF, et al. **Trans Am Ophthalmol Soc** 1990; 87:94–104; discussion 104–6

Biological fate of sirdalud in animals and man. Koch P, et al. **Xenobiotica** 1989 Nov;19(11):1255–65

[The effect of muscle relaxants on the function of the vestibulo–ocular reflex arc] Jeřábek J, et al. **Cesk Neurol Neurochir** 1990 Mar;53(2):83–8 (Eng. Abstr.) **(Cze)**

[Tizanidine as treatment of spasticity in patients with hemiplegia caused by a CVA or brain injury] Weynants L, et al. **Acta Belg Med Phys** 1990 Jan–Mar;13(1):19–22 **(Dut)**

[Alindine reduces decreased ventricular conduction induced by large doses of bupivacaine in the anesthetized dog] Bassoul B, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R194 **(Fre)**

ANALYSIS

Spectrophotometric determination of clonidine in dosage forms using bromocresol green. Zivanov–Stakić D, et al. **Farmaco** 1990 Mar;45(3):381–3

ANTAGONISTS & INHIBITORS

Characterization and visualization of clonidine–sensitive imidazole sites in rat kidney which recognize clonidine–displacing substance. Ernsberger P, et al. **Am J Hypertens** 1990 Feb;3(2):90–7

Clonidine–displacing substance is present in peripheral tissues of the rat. Hensley ML, et al. **Am J Hypertens** 1989 Dec; 2(12 Pt 1):917–9

Neuroblastoma–glioma hybrid cells contain clonidine–displacing substance. Ernsberger P, et al. **Eur J Pharmacol** 1989 Dec 12;174(1):135–8

Reversal by ethanol of the hypotensive effect of clonidine in conscious spontaneously hypertensive rats. Abdel–Rahman AA. **Hypertension** 1989 Nov;14(5):531–41

Imidazoline–guanidinium receptive site in renal proximal tubule: asymmetric distribution, regulation by cations and interaction with an endogenous clonidine displacing substance. Coupry I, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):293–9

In vivo assessment of napamezole, an alpha–2 adrenoceptor antagonist and monoamine re–uptake inhibitor. Perrone MH, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):476–83

DIAGNOSTIC USE

Comparison of growth hormone response after clonidine and insulin hypoglycemia in affective illness. Amsterdam JD, et al. **Biol Psychiatry** 1990 Aug 15;28(4):308–14

Alpha 2–adrenoreceptor status in obsessive–compulsive disorder. Lee MA, et al. **Biol Psychiatry** 1990 May 15; 27(10):1083–93

Tricyclic wash–out and growth hormone response to clonidine. Schittecatte M, et al. **Br J Psychiatry** 1989 Jun; 154:858–63

Blunted growth hormone responses to clonidine in adolescent girls with early anorexia nervosa. Evidence for an early hypothalamic defect. Nussbaum MP, et al. **J Adolesc Health Care** 1990 Mar;11(2):145–8

Neuroendocrine investigation in children and adolescents with dysthymic disorders: the DST, TRH and clonidine tests. Brambilla F, et al. **J Affective Disord** 1989 Nov–Dec; 17(3):279–84

Growth hormone response to clonidine in untreated depressed patients. Schittecatte M, et al. **Psychiatry Res** 1989 Aug;29(2):199–206

Premenstrual failure of alpha–adrenergic stimulation on hypothalamus–pituitary responses in menstrual migraine. Facchinetti F, et al. **Psychosom Med** 1989 Sep–Oct; 51(5):550–8

[The use of klofelin for studying somatotropin secretion in children] Antoshkina AN, et al. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):11–4 (Eng. Abstr.) **(Rus)**

METABOLISM

Characterization and visualization of clonidine-sensitive imidazole sites in rat kidney which recognize clonidine-displacing substance. Ernsberger P, et al. **Am J Hypertens** 1990 Feb;3(2):90–7

Detection and characterization of 3H-clonidine binding sites in coated vesicles isolated from bovine brain. Moroi K, et al. **Jpn J Pharmacol** 1989 Sep;51(1):128–31

Functional supersensitivity of antinociceptive spinal cord alpha 2-adrenoceptors, induced by depletion of endogenous noradrenaline, is associated with an enhanced sensitivity for guanine nucleotide regulation of 3H-clonidine binding. Wikberg JE, et al. **Pharmacol Toxicol** 1990 Feb; 66(2):109–14

[The effect of pesticides-CDM and AMZ on inhibition of the binding of 3H-clonidine to alpha 2-adrenoreceptor in rat forebrain tissue] Wu D, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Mar;21(1):17–21 (Eng. Abstr.) **(Chi)**

PHARMACOKINETICS

Comorbidity of panic disorder and major depressive disorder: effects on platelet alpha 2 adrenergic receptors. Grunhaus LJ, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):216–9

Comparison of intravenous and nasal bioavailability of clonidine in rodents. Babhair SA, et al. **Res Commun Chem Pathol Pharmacol** 1990 Feb;67(2):241–8

PHARMACOLOGY

Endothelial role in alpha-adrenergic induced vasoconstriction in rat thoracic aorta. Vinet R, et al. **Acta Cient Venez** 1988;39(4):340–3

Effect of oral clonidine, insulin-induced hypoglycemia and exercise on plasma GHRH levels in short-stature children. Gil-Ad I, et al. **Acta Endocrinol (Copenh)** 1990 Jan; 122(1):89–95

The effects of clonidine on the kidney function in the anesthetized dog. Kövér G, et al. **Acta Physiol Hung** 1989; 74(3–4):229–41

The effects of clonidine hydrochloride versus atenolol monotherapy on serum lipids, lipid subfractions, and apolipoproteins in mild hypertension. Houston MC, et al. **Am Heart J** 1990 Jul;120(1):172–9

Clonidine abolishes exaggerated presaor responses to shaker stress in spontaneously hypertensive rats. Takeda K, et al. **Am J Hypertens** 1990 Jan;3(1):39–44

Effects of clonidine on breathing movements and electrocortical activity in the fetal lamb. Bamford OS, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):661–8

Selective reduction of alpha 2-adrenergic responsiveness in hamster adipose tissue during prolonged starvation. Carpéné C, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):E80–8

Calcium and alpha-adrenergic regulation of Na-Cl(K) cotransport in rabbit tracheal epithelial cells. Liedtke CM. **Am J Physiol** 1990 Aug;259(2 Pt 1):L66–72

Orally administered clonidine as a secretagogue of growth hormone and as a thymotrophic agent in dogs of various ages. Morrison WB, et al. **Am J Vet Res** 1990 Jan; 51(1):65–70

Enhancement of fentanyl analgesia by clonidine plus verapamil in rats. Horváth G, et al. **Anesth Analg** 1990 Mar;70(3):284–8

Effects of intramuscular clonidine on hemodynamic and plasma beta-endorphin responses to gynecologic laparoscopy. Aho M, et al. **Anesthesiology** 1990 May; 72(5):797–802

Effects of intrathecal morphine, clonidine, and midazolam on the somato-sympathoadrenal reflex response in halothane-anesthetized cats. Gaumann DM, et al. **Anesthesiology** 1990 Sep;73(3):425–32

Altered responsiveness of central alpha 2-adrenoceptors in aging. Nistico' G, et al. **Ann Ist Super Sanita** 1990; 26(1):69–74

Effect of clonidine on serum gonadotrophin concentrations [letter] Darendeliler F, et al. **Arch Dis Child** 1989 Sep; 64(9):1343

Interaction of rilmenidine and clonidine with pre- and postjunctional alpha-adrenoceptors in rat and rabbit blood vessels and in rat kidneys. Verbeuren TJ, et al. **Arch Int Pharmacodyn Ther** 1989 Jul-Aug;300:114–39

Aspects of salivary gland radiosensitivity: effects of sialagogues and irradiation. Norberg LE, et al. **Arch Otorhinolaryngol** 1989;246(4):200–4

Comparison of the effects of extradural clonidine with those of morphine on postoperative pain, stress responses, cardiopulmonary function and motor and sensory block. Lund C, et al. **Br J Anaesth** 1989 Nov;63(5):516–9

The cardiovascular actions of clonidine and neuropeptide-Y in the ventrolateral medulla of the rat [published erratum appears in Br J Pharmacol 1989 Dec;98(4):iii] McAuley MA, et al. **Br J Pharmacol** 1989 Aug;97(4):1067–74

The effects of phosphatidylserine on the decreased cardiovascular response to clonidine microinfused into the nucleus tractus solitarii of old rats. Mollace V, et al. **Br J Pharmacol** 1990 Jul;100(3):547–51

Antinociceptive interactions between intrathecally administered alpha noradrenergic agonists and 5'-N-ethylcarboxamide adenosine. Aran S, et al. **Brain Res** 1990 Jun 11;519(1–2):287–93

Importance of spinal noradrenergic pathways in cardiovascular reflexes and central actions of clonidine and alpha-methyldopa in the rabbit. Elghozi JL, et al. **Brain Res** 1989 Oct 9;499(1):39–52

Restoration of cholinomimetic activity by clonidine in cholinergic plus noradrenergic lesioned rats. Haroutunian V, et al. **Brain Res** 1990 Jan 22;507(2):261–6

Hippocampal neuronal responsiveness to different neurotransmitters in the adult rat after neonatal interference with noradrenaline transmission. Gorter JA, et al. **Brain Res Bull** 1989 Oct-Nov;23(4–5):293–7

The paradox of alpha 2 adrenergic regulation of prolactin (PRL) secretion. I. The PRL-releasing action of the alpha 2 receptor agonists. Jurčovičová J, et al. **Brain Res Bull** 1989 Dec;23(6):417–24

Down-regulation of alpha 2-adrenoceptors involved in growth hormone control in the hypothalamus of infant rats receiving short-term clonidine administration. Cella SG, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):151–6

Pressor responses of clonidine injected into some prosencephalic areas of conscious rats. Colombari E, et al. **Braz J Med Biol Res** 1989;22(6):769–71

Hemodynamic effects of a combination of clonidine and propranolol in conscious cirrhotic rats. Roulot D, et al. **Can J Physiol Pharmacol** 1989 Oct;67(10):1369–72

The effects of alpha 2-adrenergic agonism with clonidine on the pulmonary and collateral resistances in the canine lung challenged with histamine. Kao SJ, et al. **Chin J Physiol** 1989;32(1):21–30

Clonidine suppresses digitalis-induced ventricular tachycardia in cats. Liu RH, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;45(1):15–21

Beneficial effects of alpha 2-adrenoceptor activity on ischemic myocardium during coronary hypoperfusion in dogs. Kitakaze M, et al. **Circ Res** 1989 Dec;65(6):1632–45

Interaction of clonidine and GHRH on GH secretion in vivo and in vitro. Alba-Roth J, et al. **Clin Endocrinol (Oxf)** 1989 May;30(5):485–91

Impairment of modulating role of testosterone in growth hormone response to clonidine in essential hypertension. Koshida H, et al. **Clin Exp Hypertens [A]** 1989; 11(8):1595–605

Naloxone-induced ACTH release in man is inhibited by clonidine. Jackson RV, et al. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):179–84

Inhibition of serotonin-induced ACTH release in man by clonidine. Jackson RV, et al. **Clin Exp Pharmacol Physiol** 1988 Apr;15(4):293–8

Cardiovascular effects of rilmenidine, a new alpha 2-adrenoceptor agonist, and clonidine in conscious spontaneously hypertensive rats. Sannajust F, et al. **Clin Exp Pharmacol Physiol** 1989 Nov;16(11):837–48

Lack of an effect of age on the response to clonidine. Klein CE, et al. **Clin Pharmacol Ther** 1990 Jan;47(1):61–7

Inhibitory effects of clonidine and dopamine on adenylate cyclase of rabbit ciliary processes. Cepelík J, et al. **Curr Eye Res** 1990 Feb;9(2):111–20

Regulation of rat ileal water absorption by central alpha 2 adrenergic receptors. Fogel R, et al. **Dig Dis Sci** 1990 Jun; 35(6):737–42

The effect of clonidine and related substances on voluntary ethanol consumption in rats. Opitz K. **Drug Alcohol Depend** 1990 Feb;25(1):43–8

Effects of systemic and intracerebroventricular phenylephrine and clonidine on corticosterone secretion in rats. Gądek-Michalska A, et al. **Endocrinol Exp** 1990 Mar;24(1–2):249–58

Sexually dimorphic characteristics of clonidine-induced growth hormone release and autofeedback. Conway S, et al. **Endocrinology** 1989 Nov;125(5):2475–85

Enhanced natriuretic potency of intravenous clonidine: extrarenal site of action? Blandford DE, et al. **Eur J Pharmacol** 1989 Dec 19;174(2–3):181–8

Clonidine-induced hypoactivity and mydriasis in mice are respectively mediated via pre- and postsynaptic alpha 2-adrenoceptors in the brain. Heal DJ, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):19–28

Clonidine produces mydriasis in conscious mice by activating central alpha 2-adrenoceptors. Heal DJ, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):11–8

Can growth hormone increase, after clonidine administration, predict the dose of human menopausal hormone needed for induction of ovulation? Menashe Y, et al. **Fertil Steril** 1990 Mar;53(3):432–5

Failure of reversal of cardiovascular responses of clonidine by centrally administered naloxone in anaesthetised rats. Srivastava RK, et al. **Indian J Exp Biol** 1989 Jul; 27(7):628–30

Influence of clonidine, methyldopa and propranolol on acute toxicity of fenitrothion in mice. Valecha N, et al. **Indian J Physiol Pharmacol** 1990 Jan;34(1):39–41

Cortical neuron sensitivity to neurotransmitters following neonatal noradrenaline depletion. Mirmiran M, et al. **Int J Dev Neurosci** 1990;8(2):217–21

Clonidine inhibits IgE-mediated and IgE-independent in vitro histamine release from human basophil leukocytes. Miadonna A, et al. **Int J Immunopharmacol** 1989; 11(5):473–7

Effect of clonidine early in life on brain morphofunctional deficits induced by neonatal malnutrition in the rat. Soto-Moyano R, et al. **Int J Neurosci** 1989 Nov; 49(1–2):103–13

Effects of clonidine and dihydralazine on atrial natriuretic factor and cGMP in humans. Wehling M, et al. **J Appl Physiol** 1989 Sep;67(3):938–44

Differences in the central hypotensive actions of alpha-methyldopa and clonidine in the spontaneously hypertensive rat: contribution of neurons arising from the B3 and the C1 areas of the rostral ventrolateral medulla. Drolet G, et al. **J Cardiovasc Pharmacol** 1990 Jan; 15(1):118–23

Effects of swim training alone and in combination with clonidine and rilmenidine on blood pressure, plasma electrolytes, vasopressin, and renin activity in spontaneously hypertensive rats. Ghaemmaghami F, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):68–74

Beta 2-adrenoceptor antagonists intensify clonidine withdrawal syndrome in conscious rats. Jonkman FA, et al. **J Cardiovasc Pharmacol** 1989 Dec;14(6):886–91

Acute hemodynamic effects of medetomidine and clonidine in healthy volunteers: a noninvasive echocardiographic study. Kallio A, et al. **J Cardiovasc Pharmacol** 1990 Jul; 16(1):28–33

Clonidine and other alpha2 adrenergic agonists: strategies for the rational use of these novel anesthetic agents. Maze M, et al. **J Clin Anesth** 1988;1(2):146–57 (81 ref.)

Acute clonidine administration potentiates spontaneous diurnal, but not nocturnal, growth hormone secretion in normal short children. Ghigo E, et al. **J Clin Endocrinol Metab** 1990 Aug;71(2):433–5

Assessment of growth hormone secretion in normal stature children using 24-hour integrated concentration of GH and pharmacological stimulation. Zadik Z, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):932–6

The effects of enalapril on urinary protein excretion in patients with idiopathic membranous nephropathy. Sauter ER, et al. **J Clin Pharmacol** 1990 Feb;30(2):155–8

Changes in protein secretion by rat submandibular glands in response to isoproterenol, alpha-methylnoradrenaline, and clonidine during post-natal development [published erratum appears in J Dent Res 1990 Feb;69(2):504] Tanaka E, et al. **J Dent Res** 1990 Jan;69(1):60–6

Marked locomotor stimulation in monoamine-depleted mice following treatment with atropine in combination with clonidine. Carlsson M, et al. **J Neural Transm Park Dis Dement Sect** 1989;1(4):317–22

Reproducible withdrawal contractions of isolated guinea-pig ileum after brief morphine exposure: effects of clonidine and nifedipine. Valeri P, et al. **J Pharm Pharmacol** 1990 Feb;42(2):115–20

Greater tension is developed at the same level of cytosolic Ca2+ concentration in the presence of clonidine, an adrenergic partial agonist, than in the presence of norepinephrine. Takayanagi I, et al. **J Pharmacobiodyn** 1989 Dec;12(12):781–6

Role of imidazole receptors in the vasodepressor response to clonidine analogs in the rostral ventrolateral medulla. Ernsberger P, et al. **J Pharmacol Exp Ther** 1990 Apr; 253(1):408–18

Effects of clonidine on renal sympathetic nerve activity and norepinephrine spillover. Garty M, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):1068–75

Pharmacological characterization of alpha adrenoceptors involved in the antinociceptive and cardiovascular effects of intrathecally administered clonidine. Solomon RE, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):27–38

Effect of clonidine on myocardial cyclic GMP content in the mouse-activation of central and peripheral alpha adrenoceptors. Vulliemoz Y, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):884–7

Comparative study of cardiovascular effects of clonidine and alinidine in cross-perfused dog atrial preparations. Chiba S, et al. **Jpn Heart J** 1989 Nov;30(6):895–902

Clonidine inhibits fluid absorption in the rabbit proximal convoluted renal tubule. Rouse D, et al. **Kidney Int** 1990 Jul;38(1):80–5

The influence of sodium omission on alpha 2-adrenergic inhibition of insulin release by mouse islets. Bertrand G, et al. **Life Sci** 1990;47(4):299–305

Inhibition of polyphosphoinositide turnover in rat cerebral cortex by clonidine. Dyck LE. **Life Sci** 1989;45(11):993–9

Central administration of neuropeptide Y induces hypothermia in mice. Possible interaction with central noradrenergic systems. Esteban J, et al. **Life Sci** 1989; 45(25):2395–400

Regulation by chronic clonidine of adenylate cyclase and cyclic AMP-dependent protein kinase in the rat locus coeruleus. Nestler EJ, et al. **Life Sci** 1989;45(12):1073–80

Objective assessment of clonidine analgesia in man and influence of naloxone. Porchet HC, et al. **Life Sci** 1990; 46(14):991–8

GABAergic agents and clonidine attenuate footshock-induced aggression in mice. Aley KO, et al. **Methods Find Exp Clin Pharmacol** 1989 Sep;11(9):541–5

An automated method for the evaluation of jumping activity in mice. Effects of clonidine on morphine withdrawal. Alguacil LF, et al. **Methods Find Exp Clin Pharmacol** 1989 Nov;11(11):677–81

Dual action of clonidine on insulin release: suppression, but stimulation when alpha 2-adrenoceptors are blocked. Schulz A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;340(6):712–4

Peripheral presynaptic and central effects of clonidine, yohimbine and rauwolscine on the sympathetic nervous system in rabbits. Szabo B, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;

340(6):648–57

Beta-endorphin mediates clonidine stimulated growth hormone release. Bruhn TO, et al. **Neuroendocrinology** 1989 Oct;50(4):460–3

Loss of the effects of clonidine on the growth hormone release and hypotensive action in long-term castrated rats: the possible role of testosterone on alpha-2-adrenergic mechanisms of clonidine. Kiem DT, et al. **Neuroendocrinology** 1990 Feb;51(2):226–32

Cross-tolerance between morphine and clonidine: a study on motility in rats. Bartoletti M, et al. **Neuropharmacology** 1989 Nov;28(11):1159–62

Clonidine, administered intracerebroventricularly in mice, produces an anti-analgesic effect which may be mediated spinally by dynorphin A (1–17). Fujimoto JM, et al. **Neuropharmacology** 1990 Apr;29(4):351–8

Effects of clonidine and yohimbine, alone and in combination with morphine, on supraspinal analgesia. Izenwasser S, et al. **Neuropharmacology** 1990 Jan;29(1):25–9

Functional and autoradiographic studies to locate the sites at which clonidine acts to cause hyperglycaemia and inhibition of opiate-induced sympathetic outflow. May CN, et al. **Neuropharmacology** 1990 Jun;29(6):545–53

Clonidine attenuates increased brain glucose metabolism during naloxone-precipitated morphine withdrawal. Kimes AS, et al. **Neuroscience** 1990;34(3):633–44

Electrically evoked noradrenaline release in the rat hypothalamic paraventricular nucleus studied by in vivo electrochemistry: autoregulation by alpha-2 receptors. Mermet C, et al. **Neuroscience** 1990;34(2):423–32

Intracerebroventricular (ICV) clonidine produces an antianalgesic effect through spinal dynorphin A(1–17) mediation. Fujimoto JM, et al. **NIDA Res Monogr** 1989; 95:306–7

Diterpene sclareol glycol inhibits clonidine-induced aggressive responses in mice. Georgieva JV. **Pharmacol Biochem Behav** 1989 Nov;34(3):503–5

Possible role of alpha-2 and alpha-1 adrenoceptors in the experimentally-induced depression of the central nervous system. Harsing LG Jr, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):927–32

Differential effects of clonidine analogs on food intake in rabbits and monkeys. Katz NL, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):433–7

Effects of chronic clonidine administration and withdrawal on free-running circadian activity rhythms. Rosenwasser AM. **Pharmacol Biochem Behav** 1989 Jun;33(2):291–7

Free-running circadian activity rhythms during long-term clonidine administration in rats. Rosenwasser AM. **Pharmacol Biochem Behav** 1990 Jan;35(1):35–9

Noradrenergic and serotonergic mediation of the locomotor and antinociceptive effects of clonidine in infant and adult rats. Smythe JW, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):413–8

Influence of desipramine on the contractile responses to noradrenaline, clonidine and to electrical field stimulation in the rat isolated seminal vesicle. Wali FA, et al. **Pharmacol Res** 1990 Mar–Apr;22(2):125–31

The SHR exhibits less "anxiety" but increased sensitivity to the anticonflict effect of clonidine compared to normotensive controls. Söderpalm B. **Pharmacol Toxicol** 1989 Nov;65(5):381–6

Effects of clonidine on self-selection of nutrients. Chafetz MD, et al. **Physiol Behav** 1989 Dec;46(6):999–1002

Are ascending noradrenergic and serotonergic pathways necessary for effects of electroconvulsive treatment? Clonidine hypothermia and forced swim study. Danysz W, et al. **Pol J Pharmacol Pharm** 1989 Jan–Feb;41(1):15–22

The effect of microinjections of clonidine into the locus coeruleus on cortical EEG in rats. Danysz W, et al. **Pol J Pharmacol Pharm** 1989 Jan–Feb;41(1):45–50

Possible involvement of endogenous opioid peptides in prolactin secretion induced by alpha 2-adrenergic stimulation in rats. Koshiyama H, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):105–8

An EEG and behavioural study on the interactions of clonidine with phencyclidine and ketamine in rats. Popoli P, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):237–47

Inositol monophosphate esterase inhibition by lithium in normal human studies using neuroendocrine tests. Part II. HGH, PRL and TSH responses to clonidine. Toutoungi M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):337–45

Dose-response profiles of plasma growth hormone and vasopressin after clonidine challenge in man. Brown GM, et al. **Psychiatry Res** 1990 Mar;31(3):311–20

Sleep, clonidine, and their interactive effect on growth hormone secretion in normal men. Cavallo A, et al. **Psychoneuroendocrinology** 1990;15(1):15–21

Neuroendocrine evidence of deranged noradrenergic activity in chronic migraine. Martignoni E, et al. **Psychoneuroendocrinology** 1989;14(5):357–63

The effects of clonidine and yohimbine on human information processing. Halliday R, et al. **Psychopharmacology (Berl)** 1989;99(4):563–6

Changes in plasma catecholamine levels after the intraperitoneal and intracerebroventricular administration of adenosine analogues and of clonidine in conscious rats. Laborit H, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun;68(3):307–27

Interaction of clonidine and morphine with lidocaine in mice and rats. Garty M, et al. **Toxicol Appl Pharmacol** 1989 Nov; 101(2):255–60

Long-term behavioral and learning abnormalities produced by the irreversible cholinesterase inhibitor soman: effect of a standard pretreatment regimen and clonidine. Buccafusco JJ, et al. **Toxicol Lett** 1990 Aug;52(3):319–29

[Clonidine stimulates central nervous alpha 2 adrenoceptors not mediating Ca2+ channels] Yang Y, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):488–91 (Eng. Abstr.) (Chi)

[Effect of increasing amounts of clonidine during hyperbaric tetracaine spinal anesthesia] Wu CI, et al. **Ma Tsui Hsueh Tsa Chi** 1989 Jun;27(2):117–23 (Eng. Abstr.) (Chi)

[Effect of clonidine on the schedule-controlled performance action of two benzodiazepine receptor agonists] Yang XM, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):11–5 (Eng. Abstr.) (Chi)

[The effect of clonidine on humoral factors in patients with arterial hypertension] Poliak M, et al. **Cas Lek Cesk** 1990 Mar 9;129(10):301–5 (Eng. Abstr.) (Cze)

[Clonidine: from the treatment of hypertension to its use in anesthesia. I. Main effects and mechanism of action of clonidine] Bernard JM, et al. **Ann Fr Anesth Reanim** 1990; 9(1):59–66 (71 ref.) (Fre)

[Effects of the addition of adrenaline and clonidine on the kinetics of bupivacaine in the spinal canal] Boico O, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R210 (Fre)

[Effects of clonidine on tourniquet-induced systemic arterial hypertension in general anesthesia] Erard PY, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R198 (Fre)

[Respiratory effects of clonidine administered in the peridural space] Penon C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R211 (Fre)

[Does clonidine as premedication prevent instability of contractions in carotid surgery?] Pluskwa F, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R197 (Fre)

[Clonidine suppression of sympathetic and circulatory activation in revival from aortic surgery] Roux C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R199 (Fre)

[Naloxone doesn't determine the response of growth hormone to clonidine in obese patients] Satta MA, et al. **C R Soc Biol (Paris)** 1989;183(4):337–41 (Eng. Abstr.) (Fre)

[Hemodynamic effects of clonidine on the fetus and newborn infant] Wingtin LN, et al. **Rev Fr Gynecol Obstet** 1989 Oct; 84(10):695–8 (Eng. Abstr.) (Fre)

[Effects of muscimol on aggressive behaviors induced by clonidine in mice] Kaneyuki H. **Yakubutsu Seishin Kodo** 1989 Sep;9(3):281–7 (Eng. Abstr.) (Jpn)

[Neuropharmacologic analysis and clinical course of ketamine anesthesia during central alpha2-adrenostimulation with clopheline] Tarakanov AV. **Anesteziol Reanimatol** 1990 May–Jun;(3):23–6 (Eng. Abstr.) (Rus)

[Effects of clopheline on impulse activity of neurons in the midbrain and dorsal horn of the spinal cord] Zaĭtsev AA, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):203–5 (Eng. Abstr.) (Rus)

[Changes in tubular reabsorption of sodium after a single dose of clonidine (letter)] Muñiz Grijalvo O, et al. **Med Clin (Barc)** 1989 Nov 4;93(14):558 (Spa)

POISONING

Clonidine poisoning in children [letter] Wedin GP, et al. **Am J Dis Child** 1990 Aug;144(8):853–4

Clonidine poisoning in children. Heidemann SM, et al. **Crit Care Med** 1990 Jun;18(6):618–20

Clonidine poisoning in young children. Wiley JF 2d, et al. **J Pediatr** 1990 Apr;116(4):654–8

Pediatric clonidine intoxications. Bamshad MJ, et al. **Vet Hum Toxicol** 1990 Jun;32(3):220–3

Clonidine intoxication [letter] Wasserman GS. **Vet Hum Toxicol** 1989 Aug;31(4):391

THERAPEUTIC USE

Clonidine in hyperkinetic children. Polák L, et al. **Act Nerv Super (Praha)** 1990 Mar;32(1):66–7

Aortic surgery: effect of clonidine on intraoperative catecholaminergic and circulatory stability. Quintin L, et al. **Acta Anaesthesiol Scand** 1990 Feb;34(2):132–7

Combined administration of physostigmine and clonidine to patients with dementia of the Alzheimer type: a pilot safety study. Davidson M, et al. **Alzheimer Dis Assoc Disord** 1989 Winter;3(4):224–7

Cerebral blood flow during the acute therapy of severe hypertension with oral clonidine. Greene CS, et al. **Am J Emerg Med** 1990 Jul;8(4):293–6

Comparison of clinic and home blood pressure levels and the role of the sympathetic nervous system in clinic–home differences. Saito I, et al. **Am J Hypertens** 1990 Mar; 3(3):219–24

Comparison of epidural sufentanil plus clonidine with sufentanil alone for postoperative pain relief. Vercauteren M, et al. **Anaesthesia** 1990 Jul;45(7):531–4

Epidural clonidine analgesia following surgery: phase I. Eisenach JC, et al. **Anesthesiology** 1989 Nov;71(5):640–6

Epidural clonidine analgesia for intractable cancer pain: phase I. Eisenach JC, et al. **Anesthesiology** 1989 Nov; 71(5):647–52

Clonidine, cortisol, panic disorder, and depression [letter; comment] Toutoungi M. **Biol Psychiatry** 1990 Apr 1; 27(7):802–4 Comment on: Biol Psychiatry 1988 Jul;24(3):322–30.

Inpatient heroin detoxification: a comment [letter; comment] Cook CC. **Br J Addict** 1989 Nov;84(11):1369–71 Comment on: Br J Addict 1989 Jan;84(1):81–7.

Efficacy of clonidine, guanfacine and methadone in the rapid detoxification of heroin addicts: a controlled clinical trial. San L, et al. **Br J Addict** 1990 Jan;85(1):141–7

The haemodynamic and hormonal responses after clonidine occur independently of sedation in essential hypertension. Kooner JS, et al. **Br J Clin Pharmacol** 1989 Sep; 28(3):249–55

Naltrexone and clonidine in heroin withdrawal treatment [letter; comment] Drummond DC, et al. **Br J Psychiatry** 1989 Apr;154:571–2 Comment on: Br J Psychiatry 1988 Sep;153:340–3.

Participation of different brain regions in the anti-narcotic withdrawal action of clonidine in the dependent rat. Buccafusco JJ. **Brain Res** 1990 Apr 9;513(1):8–14

Clonidine impairs recovery of beam-walking after a sensorimotor cortex lesion in the rat. Goldstein LB, et al. **Brain Res** 1990 Feb 5;508(2):305–9

Centrally acting alpha-2 agonists, peripherally acting adrenergic-blocking drugs, and direct vasodilators in the treatment of mild and moderate essential hypertension. Brown J, et al. **Clin Cardiol** 1989 Dec;12(12 Suppl 4):IV78–81

Prevention of cyclosporine-induced nephrotoxicity with transdermal clonidine. Luke J, et al. **Clin Pharm** 1990 Jan; 9(1):49–53

A double-blind comparison of transdermal clonidine and oral captopril in essential hypertension. McMahon FG, et al. **Clin Ther** 1990 Mar–Apr;12(2):88–100

Head injury: clonidine decreases plasma catecholamines. Payen D, et al. **Crit Care Med** 1990 Apr;18(4):392–5

Fetal effects of maternally administered clonidine and angiotensin-converting enzyme inhibitors. Boutroy MJ. **Dev Pharmacol Ther** 1989;13(2–4):199–204 (24 ref.)

Comment: oral clonidine in nicotine withdrawal [letter; comment] Day RG. **DICP** 1989 Dec;23(12):1035–6 Comment on: DICP 1989 Jun;23(6):473–4.

The detoxification of high dose heroin addicts in Pakistan. Gossop M. **Drug Alcohol Depend** 1989 Oct;24(2):143–50

An enhanced diuresis and natriuresis in response to clonidine in spontaneously hypertensive rats. Baranowska B, et al. **Endokrynol Pol** 1989;40(2):79–84

Clonidine as a sedative adjunct in intensive care. Böhrer H, et al. **Intensive Care Med** 1990;16(4):265–6

Management of autonomic dysfunction in severe tetanus: the use of magnesium sulphate and clonidine. Sutton DN, et al. **Intensive Care Med** 1990;16(2):75–80 (50 ref.)

Clinical and biochemical responses to nadolol and clonidine in hyperthyroidism. Herman VS, et al. **J Clin Pharmacol** 1989 Dec;29(12):1117–20

Effectiveness of clonidine in congenital orthostatic hypotension [letter] Acott PD, et al. **J Pediatr** 1990 Apr; 116(4):666–7

Combining clonidine and nicotine replacement for treatment of nicotine withdrawal. Sees KL, et al. **J Psychoactive Drugs** 1989 Jul–Sep;21(3):355–9 (24 ref.)

A trial of clonidine to stop smoking [letter; comment] **JAMA** 1990 May 23–30;263(20):2746–7 Comment on: JAMA 1989 Dec 1;262(21):3011–3.

Randomized, controlled trial of clonidine for smoking cessation in a primary care setting [see comments] Franks P, et al. **JAMA** 1989 Dec 1;262(21):3011–3 Comment in: JAMA 1990 May 23–30;263(20):2746–7.

Treatment of hyperkinetic movement disorders. Bressman SB, et al. **Neurol Clin** 1990 Feb;8(1):51–75 (117 ref.)

A double-blind, placebo-controlled trial of clonidine in the treatment of acute mania. Janicak PG, et al. **Psychopharmacol Bull** 1989;25(2):243–5

[Inhibitory effects of clonidine on edema formation after thermal injury in mice and rats] Jiang DJ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):540–2 (Eng. Abstr.) (Chi)

[Inhibitory action of intracerebroventricular injections of norepinephrine and clonidine on ventricular extrasystoles induced by stimulating hypothalamus in rabbits] Shen GS, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Mar;10(2):144–7 (Eng. Abstr.) (Chi)

[Effects of clonidine on postoperative shivers: a double blind study] Ang ET, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R200 (Fre)

[Postoperative analgesia with intravenous clonidine] Bernard JM, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R196 (Fre)

[Postoperative analgesia induced by clonidine: comparison of peridural and IM administration] Boico O, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R205 (Fre)

[Incidence of tourniquet pain from spinal anesthesia with a combination of bupivacaine and clonidine] Bonnet F, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R208 (Fre)

[Postoperative peridural analgesia with clonidine] Petit J, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R203 (Fre)

[Postoperative analgesia induced with peridural clonidine] Rostaing S, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R204 (Fre)

[Clinical effects of the addition of clonidine with and without adrenaline with peridural administration of lidocaine] Veillette Y, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R206

(Fre)
[Clonidine versus a placebo trial in manic disorder] Hardy-Bayle MC, et al. **Encephale** 1989 Nov-Dec; 15(6):523-6 (Eng. Abstr.) (Fre)
[Analgesic effects of an oral dose of clonidine] Porchet HC, et al. **Schweiz Med Wochenschr** 1989 Dec 2;119(48):1724-6 (Eng. Abstr.) (Fre)
[Treatment of withdrawal symptoms using clonidine during pregnancy] Pohl S, et al. **Anaesthesist** 1989 Sep; 38(9):498-500 (Eng. Abstr.) (Ger)
[Central and peripheral alpha-agonist and antagonist drugs in pharmacology and therapy] Basile V, et al. **Clin Ter** 1989 Dec 31;131(6):363-71 (34 ref.) (Eng. Abstr.) (Ita)
[Clinical use of growth hormone and clonidine in growth disorders] Vinci VS, et al. **Medicina (Firenze)** 1989 Jul-Sep; 9(3):288-91 (Eng. Abstr.) (Ita)
[Plasma levels of beta-endorphin and ACTH and serum levels of cortisol in different stages of arterial hypertension before and after clonidine therapy] Barletta C, et al. **Minerva Med** 1990 May;81(5):363-70 (Eng. Abstr.) (Ita)
[Use of clonidine in the prevention of alcohol withdrawal syndrome] Mondavio M, et al. **Minerva Med** 1989 Nov; 80(11):1233-5 (Eng. Abstr.) (Ita)
[The local use of clofelin in the combined treatment of patients with periodontosis and hypertension] Zanozdra LN. **Vrach Delo** 1990 Feb;(2):13-5 (Eng. Abstr.) (Rus)
[Evaluation of the treatment with clonidine of short stature in children] Casanova Bellido M, et al. **An Esp Pediatr** 1989 Sep;31(3):233-9 (Eng. Abstr.) (Spa)
[Comparative effectiveness of alpha-2 adrenergic agonists (clonidine-guanfacine) in the hospital detoxification of opiate addicts] Muga R, et al. **Med Clin (Barc)** 1990 Feb 10;94(5):169-72 (Eng. Abstr.) (Spa)

TOXICITY

Clonidine suppresses copulatory behavior and erectile reflexes in male rats: lack of effect of naloxone pretreatment. Clark JT, et al. **Neuroendocrinology** 1990 Mar;51(3):357-64

CLONING, MOLECULAR

see related
DNA, RECOMBINANT
cDNA cloning of kininase 1. Gebhard W, et al. **Adv Exp Med Biol** 1989;247B:261-4
Filamentous fusion phage cloning vectors for the study of epitopes and design of vaccines. Parmley SF, et al. **Adv Exp Med Biol** 1989;251:215-8 (10 ref.)
Identification and cloning of a 27-kDa Coxiella burnetii immunoreactive protein. Hendrix LR, et al. **Ann N Y Acad Sci** 1990;590:534-40
Rickettsia prowazekii and ATP/ADP translocase. Analysis of gene fusions encoding beta-galactosidase-ATP/ADP translocase fusion proteins. Piano GV, et al. **Ann N Y Acad Sci** 1990;590:397-407
Tumor necrosis factor analogs: identification of functional domains. Sidhu RS, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1569-76
Identification of three distinct Clostridium thermocellum xylanase genes by molecular cloning. MacKenzie CR, et al. **Arch Microbiol** 1989;152(4):377-81
The right end of MudI(Ap,lac). Zieg J, et al. **Arch Microbiol** 1989;153(1):1-6
Molecular cloning of human submandibular histatins. vanderSpek JC, et al. **Arch Oral Biol** 1990;35(2):137-43
A comparison of different cloned genome segments of epizootic haemorrhagic disease virus as serogroup-specific probes. Nel LH, et al. **Arch Virol** 1990;110(1-2):103-12
Cloning of the potato virus Y genes encoding the capsid protein CP and the nuclear inclusion protein NIb. Wefels E, et al. **Arch Virol** 1989;107(1-2):123-34
Oestrogen sulfotransferase: molecular cloning and sequencing of cDNA for the bovine placental enzyme. Nash AR, et al. **Aust J Biol Sci** 1988;41(4):507-16
Molecular cloning of new human TR2 receptors: a class of steroid receptor with multiple ligand-binding domains. Chang C, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):735-41
Cloning and cDNA sequence of the rat X-chromosome linked phosphoglycerate kinase. Ciccarese S, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1337-44
Molecular cloning and characterization of a novel marsupial milk protein gene. Collet C, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1380-3
cDNA cloning of mouse myelin-associated glycoprotein: a novel alternative splicing pattern. Fujita N, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1162-9
Isolation and characterization of a cDNA clone encoding human aromatic L-amino acid decarboxylase. Ichinose H, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):1024-30
A genomic clone of Zfy-1 from a YDOM mouse strain detects post-meiotic gene expression of Zfy in testes. Kalikin LM, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1286-91
Human complex II (succinate-ubiquinone oxidoreductase): cDNA cloning of iron sulfur (Ip) subunit of liver mitochondria. Kita K, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):101-8
Cloning of the bovine pancreatic cholesterol esterase/lysophospholipase. Kyger EM, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1302-9
Cloning, sequencing and expression of the human thyrotropin (TSH) receptor: evidence for binding of autoantibodies. Libert F, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1250-5
Isolation of a cDNA that hybrid selects antiproliferative mRNA from rat liver. McClung JK, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1316-22
Molecular cloning of the cDNA coding for proline-rich protein (PRP): identity of PRP as C4b-binding protein. Matsuguchi T, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):138-44
Cloning of a hsp70-related gene expressed in mouse spermatids. Matsumoto M, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):43-9
Molecular cloning, sequence and functional expression of the cDNA for the human thyrotropin receptor. Nagayama Y, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):1184-90
cDNA cloning of the hydroxysteroid sulfotransferase STa sharing a strong homology in amino acid sequence with the senescence marker protein SMP-2 in rat livers. Ogura K, et al. **Biochem Biophys Res Commun** 1990 Feb 14; 166(3):1494-500
Production in Escherichia coli of a biologically active subfragment of von Willebrand factor corresponding to the platelet glycoprotein Ib, collagen and heparin binding domains. Piétu G, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1339-47
Complementary DNA for the mouse homolog of the small subunit of human cytochrome b558. Sumimoto H, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):902-6
Molecular cloning of guinea-pig aromatic-L-amino acid decarboxylase cDNA. Taketoshi M, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1229-35
Molecular cloning of a small prostate protein, known as beta-microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcripts in non-genital tissues. Ulvsbäck M, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1310-5
Cloning and sequencing of a cDNA encoding the Rieske iron-sulfur protein of bovine heart mitochondrial ubiquinol-cytochrome c reductase. Usui S, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):575-9
Cloning of human gene encoding prostaglandin endoperoxide synthase and primary structure of the enzyme. Yokoyama C, et al. **Biochem Biophys Res Commun** 1989 Dec 15; 165(2):888-94
Cloning of rodent cDNA coding the poly(ADP-ribose) polymerase catalytic domain and analysis of mRNA levels during the cell cycle. Thibodeau J, et al. **Biochem Cell Biol** 1989 Sep;67(9):653-60
A procedure for cloning restriction fragments of DNA as single inserts in yeast artificial chromosomes. Sgaramella V, et al. **Biochem Int** 1990;20(3):503-10
Cloning and expression of human salivary-gland kallikrein in Escherichia coli. Angermann A, et al. **Biochem J** 1989 Sep 15;262(3):787-93
Cloning of aminoglycoside phosphotransferase (APH) gene from antibiotic-producing strain of Bacillus circulans into a high-expression vector, pKK223-3. Purification, properties and location of the enzyme. Sarwar M, et al. **Biochem J** 1990 Jun 15;268(3):671-7
Production of translatable firefly luciferase mRNA in vitro from cloned cDNA. Sala-Newby G, et al. **Biochem Soc Trans** 1990 Jun;18(3):459-60
Molecular cloning and primary structure of rat alpha 1-antitrypsin. Chao S, et al. **Biochemistry** 1990 Jan 16; 29(2):323-9
Monofunctional chorismate mutase from Bacillus subtilis: purification of the protein, molecular cloning of the gene, and overexpression of the gene product in Escherichia coli. Gray JV, et al. **Biochemistry** 1990 Jan 16;29(2):376-83
Branch migration mediated DNA labeling and cloning. Quartin RS, et al. **Biochemistry** 1989 Oct 31;28(22):8676-82
Subcloning, expression, and purification of the enterobactin biosynthetic enzyme 2,3-dihydroxybenzoate-AMP ligase: demonstration of enzyme-bound (2,3-dihydroxybenzoyl)adenylate product. Rusnak F, et al. **Biochemistry** 1989 Aug 22;28(17):6827-35
Molecular cloning, coding nucleotides and the deduced amino acid sequence of P-450BM-1 from Bacillus megaterium. He JS, et al. **Biochim Biophys Acta** 1989 Dec 22;1009(3):301-3
Molecular cloning and expression of cDNA for rat pancreatic cholesterol esterase. Kissel JA, et al. **Biochim Biophys Acta** 1989 Nov 28;1006(2):227-36
Molecular cloning and expression of a cDNA encoding the membrane-associated rat intestinal alkaline phosphatase. Lowe M, et al. **Biochim Biophys Acta** 1990 Feb 9; 1037(2):170-7
Molecular cloning, sequence analysis and mRNA expression of human ADP-ribosylation factor. Peng ZG, et al. **Biofactors** 1989 Mar;2(1):45-9
Synthesis of bioactive seminalplasmin by expression of a newly constructed fusion gene. Preuss KD, et al. **Biol Chem Hoppe Seyler** 1990 Mar;371(3):215-22
Hybribox: a device for processing numbers of radioactively labeled hybridization filters with a minimum of personal exposure. Cohen LW, et al. **Biotechniques** 1990 Apr; 8(4):362-4
A simple polymerase chain reaction method for detection and cloning of low-abundance transcripts. Fuqua SA, et al. **Biotechniques** 1990 Aug;9(2):206-11
The Gene Construction Kit: a new computer program for manipulating and presenting DNA constructs. Gross RH. **Biotechniques** 1990 Jun;8(6):684-9
Simple biological assay for the error rate upon cloning of synthetic oligodeoxyribonucleotides. Mandecki W, et al. **Biotechniques** 1990 Jul;9(1):56-9
Base composition-independent hybridization in dried agarose gels: screening and recovery for cloning of genomic DNA fragments [published erratum appears in Biotechniques 1988 Nov-Dec;6(10):953] Mather MW. **Biotechniques** 1988 May;6(5):444-7
A Macintosh program for the management of DNA clones generated by combinatorial cassette or saturation mutagenesis. Waye MM, et al. **Biotechniques** 1989 Jun; 7(6):604-6
Molecular cloning of the cys genes (cysC, cysD, cysH, cysI, cysJ, and cysG) responsible for cysteine biosynthesis in Escherichia coli K-12. Tei H, et al. **Biotechnol Appl Biochem** 1990 Apr;12(2):212-6
The impact of molecular genetics on our understanding of the psychoses [see comments] Mullan MJ, et al. **Br J Psychiatry** 1989 May;154:591-5 (36 ref.) Comment in: Br J Psychiatry 1989 Oct;155:564-5.
The expected fraction of clonable genomic DNA. Tang B, et al. **Bull Math Biol** 1990;52(3):455-75
Molecular cloning of complementary DNAs encoding alkaline phosphatase in human colon cancer cells. Gum JR, et al. **Cancer Res** 1990 Feb 15;50(4):1085-91
Cloning and sequencing of a complementary DNA encoding a Mr 70,000 human breast epithelial mucin-associated antigen. Larocca D, et al. **Cancer Res** 1990 Sep 15; 50(18):5925-30
Cloning of the human and murine interleukin-7 receptors: demonstration of a soluble form and homology to a new receptor superfamily. Goodwin RG, et al. **Cell** 1990 Mar 23;60(6):941-51
Molecular cloning and characterization of a human DNA binding factor that represses transcription. Kageyama R, et al. **Cell** 1989 Dec 1;59(5):815-25
The murine interleukin-4 receptor: molecular cloning and characterization of secreted and membrane bound forms. Mosley B, et al. **Cell** 1989 Oct 20;59(2):335-48
Direct expression cloning of vascular cell adhesion molecule 1, a cytokine-induced endothelial protein that binds to lymphocytes. Osborn L, et al. **Cell** 1989 Dec 22; 59(6):1203-11
Genetic transfer of a functional human interferon alpha receptor into mouse cells: cloning and expression of its cDNA. Uzé G, et al. **Cell** 1990 Jan 26;60(2):225-34
Functional expression of microsomal and mitochondrial cytochrome P-450 (d and SCC) in COS-7 cells from cloned cDNA. Minowa O, et al. **Cell Struct Funct** 1990 Feb; 15(1):21-30
Tissue- and species-specific expression of inhibitory guanine nucleotide-binding proteins. Cloning of a full-length complementary DNA from canine heart [published erratum appears in Circ Res 1989 Dec;65(6):1810] Holmer SR, et al. **Circ Res** 1989 Oct;65(4):1136-40
Molecular cloning of gene sequences from rat heart rapidly responsive to pressure overload. Komuro I, et al. **Circ Res** 1990 Apr;66(4):979-85
Molecular cloning and expression of chicken cardiac troponin C. Toyota N, et al. **Circ Res** 1989 Nov;65(5):1241-6
Cloning and characterization of a cDNA encoding alkaline phosphatase in mouse embryonal carcinoma cells. Hahnel AC, et al. **Clin Chim Acta** 1990 Jan 15;186(2):171-4
Cloning and nucleotide sequence of cDNA for Ki antigen, a highly conserved nuclear protein detected with sera from patients with systemic lupus erythematosus. Nikaido T, et al. **Clin Exp Immunol** 1990 Feb;79(2):209-14
cDNA cloning of small nuclear and cytoplasmic RNA-associated proteins. van Dam A, et al. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):20-8 (49 ref.)
Report of the DNA committee and catalogs of cloned and mapped genes and DNA polymorphisms. Kidd KK, et al. **Cytogenet Cell Genet** 1989;51(1-4):622-947 (2441 ref.)
Superpolylinkers in cloning and expression vectors. Brosius J. **DNA** 1989 Dec;8(10):759-77
The IgA heavy-chain gene family in rabbit: cloning and sequence analysis of 13 C alpha genes. Burnett RC, et al. **EMBO J** 1989 Dec 20;8(13):4041-7
Expression cloning of a receptor for human granulocyte-macrophage colony-stimulating factor. Gearing DP, et al. **EMBO J** 1989 Dec 1;8(12):3667-76
cDNA cloning and sequencing of the protein-tyrosine kinase substrate, ezrin, reveals homology to band 4.1. Gould KL, et al. **EMBO J** 1989 Dec 20;8(13):4133-42
Cloning and expression of the receptor for human urokinase plasminogen activator, a central molecule in cell surface, plasmin dependent proteolysis [published erratum appears in EMBO J 1990 May;9(5):1674] Roldan AL, et al. **EMBO J** 1990 Feb;9(2):467-74
The cloned human oestrogen receptor contains a mutation which alters its hormone binding properties. Tora L, et al. **EMBO J** 1989 Jul;8(7):1981-6
Molecular cloning and nucleotide sequence of full-length cDNA for ascorbate oxidase from cultured pumpkin cells. Esaka M, et al. **Eur J Biochem** 1990 Aug 17;191(3):537-41
Glucosephosphate isomerase from Trypanosoma brucei. Cloning and characterization of the gene and analysis of

the enzyme. Marchand M, et al. **Eur J Biochem** 1989 Sep 15;184(2):455–64

Molecular cloning and sequence analysis of the cDNA for rat mitochondrial enoyl-CoA hydratase. Structural and evolutionary relationships linked to the bifunctional enzyme of the peroxisomal beta-oxidation system. Minami-Ishii N, et al. **Eur J Biochem** 1989 Oct 20; 185(1):73–8

Molecular cloning of a cDNA for the smallest nuclear-encoded subunit of sweet potato cytochrome c oxidase. Analysis with the cDNA of the structure and import into mitochondria of the subunit. Nakagawa T, et al. **Eur J Biochem** 1990 Aug 17;191(3):557–61

The 2-oxoglutarate dehydrogenase complex from Azotobacter vinelandii. 1. Molecular cloning and sequence analysis of the gene encoding the 2-oxoglutarate dehydrogenase component. Schulze E, et al. **Eur J Biochem** 1990 Jan 12;187(1):229–34

Molecular cloning of the gene for the E1 alpha subunit of the pyruvate dehydrogenase complex from Saccharomyces cerevisiae. Steensma HY, et al. **Eur J Biochem** 1990 Aug 17;191(3):769–74

Cloning and sequencing of mammalian glutathione reductase cDNA. Tutic M, et al. **Eur J Biochem** 1990 Mar 30; 188(3):523–8

A novel gene member of the human glycophorin A and B gene family. Molecular cloning and expression. Vignal A, et al. **Eur J Biochem** 1990 Aug 17;191(3):619–25

The 2-oxoglutarate dehydrogenase complex from Azotobacter vinelandii. 2. Molecular cloning and sequence analysis of the gene encoding the succinyltransferase component. Westphal AH, et al. **Eur J Biochem** 1990 Jan 12;187(1):235–9

cDNA cloning of cytochrome P-450 related to P-450p-2 from the cDNA library of human placenta. Gene structure and expression. Yokotani N, et al. **Eur J Biochem** 1990 Jan 12;187(1):23–9

Cloning and sequencing of the gene encoding cytochrome c-551 from Pseudomonas aeruginosa. Arai H, et al. **FEBS Lett** 1990 Feb 12;261(1):196–8

Molecular cloning of the Na,K-ATPase alpha-subunit in developing brine shrimp and sequence comparison with higher organisms. Baxter-Lowe LA, et al. **FEBS Lett** 1989 Oct 23;257(1):181–7

The transmembrane topology of the a [corrected] subunit from the ATPase in Escherichia coli analyzed by PhoA protein fusions [published erratum appears in FEBS Lett 1990 Mar 26;262(2):369] Bjørbaek C, et al. **FEBS Lett** 1990 Jan 15;260(1):31–4

Bacterial expression of human cysteine proteinase inhibitor stefin A. Fong D, et al. **FEBS Lett** 1989 Oct 23;257(1):55–8

Purification of the inducible alpha-agglutinin of S. cerevisiae and molecular cloning of the gene. Hauser K, et al. **FEBS Lett** 1989 Sep 25;255(2):290–4

Cloning of gene cluster for sarcotoxin I, antibacterial proteins of Sarcophaga peregrina. Kanai A, et al. **FEBS Lett** 1989 Dec 4;258(2):199–202

Molecular cloning and nucleotide sequence analysis of mRNA for human kidney ornithine aminotransferase. An examination of ornithine aminotransferase isozymes between liver and kidney. Kobayashi T, et al. **FEBS Lett** 1989 Sep 25;255(2):300–4

Expression of enzymatically active cloned strictosidine synthase from the higher plant Rauvolfia serpentina in Escherichia coli. Kutchan TM. **FEBS Lett** 1989 Oct 23; 257(1):127–30

Molecular cloning of cDNA for cholesterol 7 alpha-hydroxylase from rat liver microsomes. Nucleotide sequence and expression. Noshiro M, et al. **FEBS Lett** 1989 Oct 23;257(1):97–100

Cloning of two additional catecholamine receptors from rat brain. O'Dowd BF, et al. **FEBS Lett** 1990 Mar 12; 262(1):8–12

Cloning, sequence analysis and chromosome localization of a Drosophila muscarinic acetylcholine receptor. Onai T, et al. **FEBS Lett** 1989 Sep 25;255(2):219–25

Molecular cloning of an insect pheromone-binding protein. Raming K, et al. **FEBS Lett** 1989 Oct 9;256(1-2):215–8

Molecular cloning and predicted full-length amino acid sequence of the type I beta isozyme of cGMP-dependent protein kinase from human placenta. Tissue distribution and developmental changes in rat. Sandberg M, et al. **FEBS Lett** 1989 Sep 25;255(2):321–9

Expression of the cDNA encoding lipocortin-like 39 kDa protein of guinea pig neutrophils in yeast. Purification and biological characterization. Sato EF, et al. **FEBS Lett** 1989 Sep 25;255(2):231–6

Molecular cloning of cDNA for vitamin D3 25-hydroxylase from rat liver mitochondria. Usui E, et al. **FEBS Lett** 1990 Mar 12;262(1):135–8

Cloning and sequence analysis of cDNA for precursor of a crustacean hyperglycemic hormone. Weidemann W, et al. **FEBS Lett** 1989 Oct 23;257(1):31–4

Cloning and expression of the thermostable alpha-amylase gene from Clostridium thermosulfurogenes (DSM 3896) in Escherichia coli. Haeckel K, et al. **FEMS Microbiol Lett** 1989 Aug;51(3):333–7

Cloning of a DNA sequence encoding a major fragment of the 47 kilodalton stress protein homologue of Candida albicans. Matthews R, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):25–30

Cloning of serum RNA associated with hepatitis C infection suggesting heterogeneity of the agent(s) responsible for the infection. Arima T, et al. **Gastroenterol Jpn** 1989 Dec; 24(6):685–91

Cloning of a cDNA associated with acute and chronic hepatitis C infection generated from patients serum RNA. Arima T, et al. **Gastroenterol Jpn** 1989 Oct;24(5):540–4

A lambda gt11-cDNA clone specific for chronic hepatitis C generated from pooled serum presumably infected by hepatitis C virus. Arima T, et al. **Gastroenterol Jpn** 1989 Oct;24(5):545–8

And now, the molecular cloning of the hepatitis E virus. Koff RS. **Gastroenterology** 1990 Aug;99(2):560–1

Cloning and characterization of the acyl-coenzyme A: 6-aminopenicillanic-acid-acyltransferase gene of Penicillium chrysogenum. Barredo JL, et al. **Gene** 1989 Nov 30;83(2):291–300

Molecular cloning and deletion of the gene encoding aspergillopepsin A from Aspergillus awamori. Berka RM, et al. **Gene** 1990 Feb 14;86(2):153–62

Protoplast fusion in microtiter plates for expression cloning in mammalian cells: demonstration of feasibility using membrane-bound alkaline phosphatase as a reporter enzyme. Caporale LH, et al. **Gene** 1990 Mar 15;87(2):285–9

The molecular cloning, sequence and expression of the hdcB gene from Lactobacillus 30A. Copeland WC, et al. **Gene** 1989 Dec 21;85(1):259–65

Cloning and expression of mouse-brain calmodulin as an activator of Bordetella pertussis adenylate cyclase in Escherichia coli. Danchin A, et al. **Gene** 1989 Aug 1; 80(1):145–9

Bacteriophage T7 RNA polymerase-controlled specific gene expression in Pseudomonas. Davison J, et al. **Gene** 1989 Nov 30;83(2):371–5

Cloning and expression of the Lactococcus lactis subsp. cremoris SK11 gene encoding an extracellular serine proteinase. de Vos WM, et al. **Gene** 1989 Dec 21; 85(1):169–76

Functional expression of a Rhodospirillum rubrum gene encoding dinitrogenase reductase ADP-ribosyltransferase in enteric bacteria. Fu HA, et al. **Gene** 1989 Dec 21; 85(1):153–60

Directional antisense and sense cDNA cloning using Epstein-Barr virus episomal expression vectors [published erratum appears in Gene 1989 Nov 30;83(2):395] Groger RK, et al. **Gene** 1989 Sep 30;81(2):285–94

Cloning and sequencing of two functional rabbit germ-line immunoglobulin V lambda genes. Hayzer DJ, et al. **Gene** 1989 Aug 1;80(1):185–91

Cloning and cDNA sequence of the beta-subunit component of human pyruvate dehydrogenase complex. Ho L, et al. **Gene** 1990 Feb 14;86(2):297–302

Purification of human interleukin-4 produced in Escherichia coli. Jayaram B, et al. **Gene** 1989 Jul 15;79(2):345–54

Expression in Escherichia coli of the major outer capsid protein of infectious pancreatic necrosis virus. Lawrence WR, et al. **Gene** 1989 Jul 15;79(2):369–74

Cloning, sequencing and expression of the L-2-hydroxyisocaproate dehydrogenase-encoding gene of Lactobacillus confusus in Escherichia coli. Lerch HP, et al. **Gene** 1989 Nov 30;83(2):263–70

Efficient cloning of a mutant adenylate-kinase-encoding gene from Escherichia coli. Liang P, et al. **Gene** 1989 Aug 1;80(1):21–8

A short N-proximal region of prochymosin inhibits the secretion of hybrid proteins from Escherichia coli. Little S, et al. **Gene** 1989 Nov 30;83(2):321–9

Cloning and analysis of calbindin-D28K cDNA and its expression in the central nervous system. Lomri N, et al. **Gene** 1989 Aug 1;80(1):87–98

Cloning of the biotin synthetase gene from Bacillus sphaericus and expression in Escherichia coli and Bacilli. Ohsawa I, et al. **Gene** 1989 Aug 1;80(1):39–48

Cloning, expression and sequence homologies of cDNA for human gamma enolase. Oliva D, et al. **Gene** 1989 Jul 15; 79(2):355–60

Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning. Palazzolo MJ, et al. **Gene** 1990 Mar 30;88(1):25–36

Detection and molecular cloning of highly repeated DNA in the sea cucumber sperm. Sainz J, et al. **Gene** 1989 Aug 1;80(1):57–64

Cloning of cDNAs encoding human interphotoreceptor retinoid-binding protein (IRBP) and comparison with bovine IRBP sequences. Si JS, et al. **Gene** 1989 Aug 1; 80(1):99–108

New derivatives of transposon Tn5 suitable for mobilization of replicons, generation of operon fusions and induction of genes in gram-negative bacteria. Simon R, et al. **Gene** 1989 Aug 1;80(1):161–9

Cloning and expression of the major inner capsid protein of SA-11 simian rotavirus in Escherichia coli. Smith RE, et al. **Gene** 1989 Jul 15;79(2):239–48

Synthesis and refolding of human tissue-type plasminogen activator in Bacillus subtilis. Wang LF, et al. **Gene** 1989 Dec 7;84(1):127–33

The application of the polymerase chain reaction to cloning members of the protein tyrosine kinase family. Wilks AF, et al. **Gene** 1989 Dec 21;85(1):67–74

Use of the polymerase chain reaction for the differential cross screening of libraries cloned into phage-lambda-based vectors. Wong P, et al. **Gene** 1989 Dec 21;85(1):59–65

Cloning and sequencing the cDNA encoding pig liver thioltransferase. Yang YF, et al. **Gene** 1989 Nov 30; 83(2):339–46

The large DNA insert cloning workshop. Cook-Deegan RM, et al. **Genomics** 1990 Aug;7(4):654–60

Human glucose-6-phosphate dehydrogenase gene carried on a yeast artificial chromosome encodes active enzyme in monkey cells. D'Urso M, et al. **Genomics** 1990 Aug; 7(4):531–4

Molecular cloning of DNA from specific chromosomal regions by microdissection and sequence-independent amplification of DNA. Johnson DH. **Genomics** 1990 Feb; 6(2):243–51

Molecular cloning and chromosomal assignment of a human perforin (PFP) gene. Shinkai Y, et al. **Immunogenetics** 1989; 30(6):452–7

Cloning, expression, and sequence analysis of the Haemophilus influenzae type b strain M43p+ pilin gene. Gilsdorf JR, et al. **Infect Immun** 1990 Apr;58(4):1065–72

Cloning and expression of functional fragment C of tetanus toxin. Halpern JL, et al. **Infect Immun** 1990 Apr; 58(4):1004–9

Cloning and expression in Escherichia coli of LKP pilus genes from a nontypeable Haemophilus influenzae strain. Kar S, et al. **Infect Immun** 1990 Apr;58(4):903–8

Expression of the cloned gene for enterotoxin STb of Escherichia coli. Lawrence RM, et al. **Infect Immun** 1990 Apr;58(4):970–7

Cloning and expression of the gene for the cross-reactive alpha antigen of Mycobacterium kansasii. Matsuo K, et al. **Infect Immun** 1990 Feb;58(2):550–6

Cloning of the genes for AF/R1 pili from rabbit enteroadherent Escherichia coli RDEC-1 and DNA sequence of the major structural subunit. Wolf MK, et al. **Infect Immun** 1990 Apr;58(4):1124–8

tRNA genes in mycobacteria: organization and molecular cloning. Bhargava S, et al. **J Bacteriol** 1990 Jun; 172(6):2930–4

Bacteriophage T4 deoxynucleotide kinase: gene cloning and enzyme purification. Brush GS, et al. **J Bacteriol** 1990 Jun; 172(6):2935–9

Cloning, disruption, and transcriptional analysis of three RNA polymerase sigma factor genes of Streptomyces coelicolor A3(2). Buttner MJ, et al. **J Bacteriol** 1990 Jun; 172(6):3367–78

Isolation of a Rhodobacter capsulatus bioB mutant and cloning of the bioB gene. Cardin RD, et al. **J Bacteriol** 1990 Apr;172(4):2181–3

Cloning, nucleotide sequence, and expression of the chromate resistance determinant of Pseudomonas aeruginosa plasmid pUM505. Cervantes C, et al. **J Bacteriol** 1990 Jan; 172(1):287–91

Cloning of Pseudomonas aeruginosa algG, which controls alginate structure. Chitnis CE, et al. **J Bacteriol** 1990 Jun; 172(6):2894–900

The cytochrome bc1 complex of Rhodobacter sphaeroides can restore cytochrome c2-independent photosynthetic growth to a Rhodobacter capsulatus mutant lacking cytochrome bc1. Davidson E, et al. **J Bacteriol** 1989 Nov; 171(11):6059–68

mprA, an Escherichia coli gene that reduces growth-phase-dependent synthesis of microcins B17 and C7 and blocks osmoinduction of proU when cloned on a high-copy-number plasmid. del Castillo I, et al. **J Bacteriol** 1990 Jan;172(1):437–45

Cloning of genes responsible for acetic acid resistance in Acetobacter aceti. Fukaya M, et al. **J Bacteriol** 1990 Apr; 172(4):2096–104

Complementation of an Escherichia coli proC mutation by a gene cloned from Treponema pallidum. Gherardini FC, et al. **J Bacteriol** 1990 Jun;172(6):2996–3002

Cloning of the Pseudomonas aeruginosa alkaline protease gene and secretion of the protease into the medium by Escherichia coli. Guzzo J, et al. **J Bacteriol** 1990 Feb; 172(2):942–8

Molecular cloning of the 3' half of the Clostridium perfringens enterotoxin gene and demonstration that this region encodes receptor-binding activity. Hanna PC, et al. **J Bacteriol** 1989 Dec;171(12):6815–20

Cloning and expression of a Bacillus subtilis division initiation gene for which a homolog has not been identified in another organism. Harry EJ, et al. **J Bacteriol** 1989 Dec; 171(12):6835–9

Pseudomonas putida KF715 bphABCD operon encoding biphenyl and polychlorinated biphenyl degradation: cloning, analysis, and expression in soil bacteria. Hayase N, et al. **J Bacteriol** 1990 Feb;172(2):1160–4

DNA cloning and organization of the Staphylococcus aureus gyrA and gyrB genes: close homology among gyrase proteins and implications for 4-quinolone action and resistance. Hopewell R, et al. **J Bacteriol** 1990 Jun; 172(6):3481–4

Cloning and nucleotide sequence of braC, the structural gene for the leucine-, isoleucine-, and valine-binding protein of Pseudomonas aeruginosa PAO. Hoshino T, et al. **J Bacteriol** 1989 Nov;171(11):6300–6

Genetic analysis of the pAD1 hemolysin/bacteriocin determinant in Enterococcus faecalis: Tn917 insertional mutagenesis and cloning. Ike Y, et al. **J Bacteriol** 1990 Jan; 172(1):155–63

Cloning and DNA sequence of the gene coding for the major sigma factor from Myxococcus xanthus. Inouye S.

J Bacteriol 1990 Jan;172(1):80–5
Cloning and nucleotide sequence of the Enterobacter aerogenes signal peptidase II (lsp) gene. Isaki L, et al. J Bacteriol 1990 Jan;172(1):469–72
Cloning and expression of Pseudomonas aeruginosa flagellin in Escherichia coli. Kelly–Wintenberg K, et al. J Bacteriol 1989 Nov;171(11):6357–62
Characterization of the oxygen–dependent promoter of the Vitreoscilla hemoglobin gene in Escherichia coli. Khosla C, et al. J Bacteriol 1989 Nov;171(11):5990–6004
Molecular cloning of a cell wall exo–beta–1,3–glucanase from Saccharomyces cerevisiae. Klebl F, et al. J Bacteriol 1989 Nov;171(11):6259–64
Cloning and sequence analysis of tryptophan synthetase genes of an extreme thermophile, Thermus thermophilus HB27: plasmid transfer from replica–plated Escherichia coli recombinant colonies to competent T. thermophilus cells. Koyama Y, et al. J Bacteriol 1990 Jun;172(6):3490–5
Phosphatidylinositol–specific phospholipase C of Bacillus cereus: cloning, sequencing, and relationship to other phospholipases. Kuppe A, et al. J Bacteriol 1989 Nov; 171(11):6077–83
Analysis of regulation of the ilvGMEDA operon by using leader–attenuator–galK gene fusions. Lawther RP, et al. J Bacteriol 1990 May;172(5):2320–7
Gene fusions with lacZ by duplication insertion in the radioresistant bacterium Deinococcus radiodurans. Lennon E, et al. J Bacteriol 1990 Jun;172(6):2955–61
Topology of the Escherichia coli uhpT sugar–phosphate transporter analyzed by using TnphoA fusions. Lloyd AD, et al. J Bacteriol 1990 Apr;172(4):1688–93
Molecular cloning and characterization of an Erwinia carotovora subsp. carotovora pectin lyase gene that responds to DNA–damaging agents. McEvoy JL, et al. J Bacteriol 1990 Jun;172(6):3284–9
Alkaline phosphatase fusions: sensors of subcellular location. Manoil C, et al. J Bacteriol 1990 Feb;172(2):515–8 (48 ref.)
Cloning and sequencing of a putative Escherichia coli [NiFe] hydrogenase–1 operon containing six open reading frames. Menon NK, et al. J Bacteriol 1990 Apr;172(4):1969–77
Identification of phosphate starvation–inducible genes in Escherichia coli K–12 by DNA sequence analysis of psi::lacZ(Mu d1) transcriptional fusions. Metcalf WW, et al. J Bacteriol 1990 Jun;172(6):3191–200
In vivo cloning and characterization of the gabCTDP gene cluster of Escherichia coli K–12. Metzer E, et al. J Bacteriol 1990 Jun;172(6):3250–6
Analysis of Bordetella pertussis virulence gene regulation by use of transcriptional fusions in Escherichia coli. Miller JF, et al. J Bacteriol 1989 Nov;171(11):6345–8
Molecular cloning and characterization of comC, a late competence gene of Bacillus subtilis. Mohan S, et al. J Bacteriol 1989 Nov;171(11):6043–51
Export of FepA::PhoA fusion proteins to the outer membrane of Escherichia coli K–12. Murphy CK, et al. J Bacteriol 1989 Nov;171(11):5894–900
Cloning and expression of daunorubicin biosynthesis genes from Streptomyces peucetius and S. peucetius subsp. caesius. Otten SL, et al. J Bacteriol 1990 Jun;172(6):3427–34
S–layer protein gene of Acetogenium kivui: cloning and expression in Escherichia coli and determination of the nucleotide sequence. Peters J, et al. J Bacteriol 1989 Nov; 171(11):6307–15
Cloning and nucleotide sequence of bisC, the structural gene for biotin sulfoxide reductase in Escherichia coli. Pierson DE, et al. J Bacteriol 1990 Apr;172(4):2194–8
Role of the CheW protein in bacterial chemotaxis: overexpression is equivalent to absence. Sanders DA, et al. J Bacteriol 1989 Nov;171(11):6271–8
Molecular cloning and sequence analysis of the structural gene of ferredoxin I from the photosynthetic bacterium Rhodobacter capsulatus. Schatt E, et al. J Bacteriol 1989 Nov;171(11):6218–26
Cloning and nucleotide sequence of luxR, a regulatory gene controlling bioluminescence in Vibrio harveyi. Showalter RE, et al. J Bacteriol 1990 Jun;172(6):2946–54
Molecular cloning of the recA analog from the marine fish pathogen Vibrio anguillarum 775. Singer JT. J Bacteriol 1989 Nov;171(11):6367–71
Copper–zinc superoxide dismutase of Caulobacter crescentus: cloning, sequencing, and mapping of the gene and periplasmic location of the enzyme. Steinman HM, et al. J Bacteriol 1990 Jun;172(6):2901–10
Glycerol facilitator of Escherichia coli: cloning of glpF and identification of the glpF product. Sweet G, et al. J Bacteriol 1990 Jan;172(1):424–30
Nucleotide sequence and cloning in Bacillus subtilis of the Bacillus stearothermophilus pleiotropic regulatory gene degT. Takagi M, et al. J Bacteriol 1990 Jan;172(1):411–8
Cloning of the crystalline cell wall protein gene of Bacillus licheniformis NM 105. Tang M, et al. J Bacteriol 1989 Dec; 171(12):6637–48
Cloning of Salmonella typhimurium DNA encoding mutagenic DNA repair. Thomas SM, et al. J Bacteriol 1989 Nov;171(11):5776–82
Cloning and nucleotide sequences of the genes for the subunits of NAD–reducing hydrogenase of Alcaligenes eutrophus H16. Tran–Betcke A, et al. J Bacteriol 1990 Jun; 172(6):2920–9
Cloning of genes governing the deoxysugar portion of the erythromycin biosynthesis pathway in Saccharopolyspora erythraea (Streptomyces erythreus). Vara J, et al. J Bacteriol 1989 Nov;171(11):5872–81
Cloning and sequencing of a gene encoding a glutamate and aspartate carrier of Escherichia coli K–12. Wallace B, et al. J Bacteriol 1990 Jun;172(6):3214–20
Mapping and molecular cloning of the phn (psiD) locus for phosphonate utilization in Escherichia coli. Wanner BL, et al. J Bacteriol 1990 Mar;172(3):1186–96
Molecular cloning of the C–terminal domain of Escherichia coli D–mannitol permease: expression, phosphorylation, and complementation with C–terminal permease deletion proteins. White DW, et al. J Bacteriol 1990 Mar; 172(3):1509–15
Escherichia coli rna gene encoding RNase I: cloning, overexpression, subcellular distribution of the enzyme, and use of an rna deletion to identify additional RNases. Zhu LQ, et al. J Bacteriol 1990 Jun;172(6):3146–51
Transcriptional organization of a cloned chemotaxis locus of Bacillus subtilis. Zuberi AR, et al. J Bacteriol 1990 Apr; 172(4):1870–6
Cloning, expression, and regulation of the Pseudomonas cepacia protocatechuate 3,4–dioxygenase genes. Zylstra GJ, et al. J Bacteriol 1989 Nov;171(11):5907–14
Molecular cloning of a cDNA encoding rat NADH–cytochrome b5 reductase and the corresponding gene. Zenno S, et al. J Biochem (Tokyo) 1990 Jun; 107(6):810–6
Primary structure of human microsomal dipeptidase deduced from molecular cloning. Adachi H, et al. J Biol Chem 1990 Mar 5;265(7):3992–5
Cloning and expression of rat cDNA encoding corticosteroid 11 beta–dehydrogenase. Agarwal AK, et al. J Biol Chem 1989 Nov 15;264(32):18939–43
Cloning of a cDNA encoding adenylosuccinate lyase by functional complementation in Escherichia coli. Aimi J, et al. J Biol Chem 1990 Jun 5;265(16):9011–4
Cloning, functional expression, and mRNA tissue distribution of the rat 5–hydroxytryptamine1A receptor gene. Albert PR, et al. J Biol Chem 1990 Apr 5;265(10):5825–32
Farnesyl diphosphate synthetase. Molecular cloning, sequence, and expression of an essential gene from Saccharomyces cerevisiae. Anderson MS, et al. J Biol Chem 1989 Nov 15;264(32):19176–84
The primary structure of rat liver glycogen synthase deduced by cDNA cloning. Absence of phosphorylation sites 1a and 1b. Bai G, et al. J Biol Chem 1990 May 15; 265(14):7843–8
cDNA cloning and chromosomal assignment of the gene encoding endothelin 3. Bloch KD, et al. J Biol Chem 1989 Oct 25;264(30):18156–61
cDNA cloning, functional expression, and mRNA tissue distribution of a third organellar Ca2+ pump. Burk SE, et al. J Biol Chem 1989 Nov 5;264(31):18561–8
A distinct human testis and brain mu–class glutathione S–transferase. Molecular cloning and characterization of a form present even in individuals lacking hepatic type mu isoenzymes. Campbell E, et al. J Biol Chem 1990 Jun 5;265(16):9188–93
Cloning the polB gene of Escherichia coli and identification of its product. Chen H, et al. J Biol Chem 1989 Dec 5; 264(34):20591–5
Chicken egg white cystatin. Molecular cloning, nucleotide sequence, and tissue distribution. Colella R, et al. J Biol Chem 1989 Oct 15;264(29):17164–9
Molecular cloning and DNA sequence analysis of Escherichia coli topB, the gene encoding topoisomerase III. DiGate RJ, et al. J Biol Chem 1989 Oct 25; 264(30):17924–30
The formylmethanofuran:tetrahydromethanopterin formyltransferase from Methanobacterium thermoautotrophicum delta H. Nucleotide sequence and functional expression of the cloned gene. DiMarco AA, et al. J Biol Chem 1990 Jan 5;265(1):472–6
Cloning and analysis of the Neurospora crassa gene for cytochrome c heme lyase. Drygas ME, et al. J Biol Chem 1989 Oct 25;264(30):17897–906
Molecular cloning of the high affinity calcium–binding protein (calreticulin) of skeletal muscle sarcoplasmic reticulum. Fliegel L, et al. J Biol Chem 1989 Dec 25; 264(36):21522–8
Glucose oxidase from Aspergillus niger. Cloning, gene sequence, secretion from Saccharomyces cerevisiae and kinetic analysis of a yeast–derived enzyme [published erratum appears in J Biol Chem 1990 Jul 5;265(19):11405] Frederick KR, et al. J Biol Chem 1990 Mar 5; 265(7):3793–802
Mouse "protective protein". cDNA cloning, sequence comparison, and expression. Galjart NJ, et al. J Biol Chem 1990 Mar 15;265(8):4678–84
Gastrotropin: not an enterooxyntin but a member of a family of cytoplasmic hydrophobic ligand binding proteins. Gantz I, et al. J Biol Chem 1989 Dec 5;264(34):20248–54
Isolation, characterization, and cDNA cloning of a vampire bat salivary plasminogen activator. Gardell SJ, et al. J Biol Chem 1989 Oct 25;264(30):17947–52
Molecular cloning of a third isoform of the calmodulin–sensitive plasma membrane Ca2+–transporting ATPase that is expressed predominantly in brain and skeletal muscle. Greeb J, et al. J Biol Chem 1989 Nov 5; 264(31):18569–76
Structure, organization, and expression of the rat cardiac myosin light chain–2 gene. Identification of a 250–base pair fragment which confers cardiac–specific expression. Henderson SA, et al. J Biol Chem 1989 Oct 25; 264(30):18142–8
Molecular cloning of a histidine–rich Ca2+–binding protein of sarcoplasmic reticulum that contains highly conserved repeated elements. Hofmann SL, et al. J Biol Chem 1989 Oct 25;264(30):18083–90
Purification and cDNA cloning of ARPP–16, a cAMP–regulated phosphoprotein enriched in basal ganglia, and of a related phosphoprotein, ARPP–19. Horiuchi A, et al. J Biol Chem 1990 Jun 5;265(16):9476–84
Molecular cloning of a novel splice variant of the alpha subunit of the mammalian Go protein. Hsu WH, et al. J Biol Chem 1990 Jul 5;265(19):11220–6
Molecular cloning and expression of ribosome releasing factor. Ichikawa S, et al. J Biol Chem 1989 Nov 25; 264(33):20054–9
Molecular cloning and sequence analysis of cDNA encoding the macrophage lectin specific for galactose and N–acetylgalactosamine. Ii M, et al. J Biol Chem 1990 Jul 5;265(19):11295–8
Concerted evolution of ruminant stomach lysozymes. Characterization of lysozyme cDNA clones from sheep and deer. Irwin DM, et al. J Biol Chem 1990 Mar 25; 265(9):4944–52
Cloning and regulation of cholesterol 7 alpha–hydroxylase, the rate–limiting enzyme in bile acid biosynthesis. Jelinek DF, et al. J Biol Chem 1990 May 15;265(14):8190–7
Molecular cloning, transcriptional characterization, and sequencing of cDNA encoding the H–protein of the mitochondrial glycine decarboxylase complex in peas. Kim Y, et al. J Biol Chem 1990 Jan 15;265(2):848–53
Cloning and characterization of molecular isoforms of the catalytic subunit of calcineurin using nonisotopic methods. Kincaid RL, et al. J Biol Chem 1990 Jul 5;265(19):11312–9
Isolation, cloning, and primary structure of a cationic 16–kDa outer membrane protein of Salmonella typhimurium. Koski P, et al. J Biol Chem 1989 Nov 15;264(32):18973–80
cDNA cloning and tissue distribution of mRNAs for two proteins that are related to the band 3 Cl–/HCO3– exchanger. Kudrycki KE, et al. J Biol Chem 1990 Jan 5; 265(1):462–71
Mitochondrial ATP synthase. cDNA cloning, amino acid sequence, overexpression, and properties of the rat liver alpha subunit. Lee JH, et al. J Biol Chem 1990 Mar 15; 265(8):4664–9
Cloning and characterization of the iron–sulfur subunit gene of succinate dehydrogenase from Saccharomyces cerevisiae. Lombardo A, et al. J Biol Chem 1990 Jun 25; 265(18):10419–23
Cloning and characterization of human pancreatic lipase cDNA. Lowe ME, et al. J Biol Chem 1989 Nov 25; 264(33):20042–8
Cloning, structure, and expression of the gene for a novel regulatory subunit of cAMP–dependent protein kinase in Caenorhabditis elegans. Lu XY, et al. J Biol Chem 1990 Feb 25;265(6):3293–303
Cloning, sequence analysis, and expression of the bacteriophage T4 cd gene. Maley GF, et al. J Biol Chem 1990 Jan 5;265(1):47–51
Candida glabrata metallothioneins. Cloning and sequence of the genes and characterization of proteins. Mehra RK, et al. J Biol Chem 1989 Nov 25;264(33):19747–53
Destrin, a mammalian actin–depolymerizing protein, is closely related to cofilin. Cloning and expression of porcine brain destrin cDNA. Moriyama K, et al. J Biol Chem 1990 Apr 5;265(10):5768–73
Nucleoside diphosphate kinase from Myxococcus xanthus. I. Cloning and sequencing of the gene. Muñoz–Dorado J, et al. J Biol Chem 1990 Feb 15;265(5):2702–6
Cloning and expression of cDNAs for polymorphic and monomorphic arylamine N–acetyltransferases from human liver. Ohsako S, et al. J Biol Chem 1990 Mar 15; 265(8):4630–4
Characterization of recombinant thioesterase and acyl carrier protein domains of chicken fatty acid synthase expressed in Escherichia coli. Pazirandeh M, et al. J Biol Chem 1989 Oct 25;264(30):18195–201
Use of bacterial expression cloning to localize the epitopes for a series of monoclonal antibodies against apolipoprotein B100. Pease RJ, et al. J Biol Chem 1990 Jan 5;265(1):553–68
Phylogenetic conservation of arylsulfatases. cDNA cloning and expression of human arylsulfatase B. Peters C, et al. J Biol Chem 1990 Feb 25;265(6):3374–81
Putidaredoxin reductase and putidaredoxin. Cloning, sequence determination, and heterologous expression of the proteins. Peterson JA, et al. J Biol Chem 1990 Apr 15; 265(11):6066–73
Isolation and molecular cloning of mast cell carboxypeptidase A. A novel member of the carboxypeptidase gene family. Reynolds DS, et al. J Biol Chem 1989 Nov 25; 264(33):20094–9
Cloning and expression of human liver UDP–glucuronosyltransferase in COS–1 cells. 3,4–catechol estrogens and estriol as primary substrates. Ritter JK, et al. J Biol Chem 1990 May 15;265(14):7900–6
Characterization of a cDNA clone encoding a Brassica napus 12 S protein (cruciferin) subunit. Relationship between precursors and mature chains. Rödin J, et al. J Biol Chem 1990 Feb 15;265(5):2720–3
Compartmentalization of mammalian proteins produced in Escherichia coli. Rosenwasser TA, et al. J Biol Chem 1990 Aug 5;265(22):13066–73

Cloning, expression, purification, and biological activity of recombinant native and variant human alpha 1-antichymotrypsins. Rubin H, et al. **J Biol Chem** 1990 Jan 15;265(2):1199-207

cDNA cloning and chromosomal assignment of the human O6-methylguanine-DNA methyltransferase. cDNA expression in Escherichia coli and gene expression in human cells. Rydberg B, et al. **J Biol Chem** 1990 Jun 5; 265(16):9563-9

Molecular cloning and expression of the cDNA for a novel alpha 1-adrenergic receptor subtype. Schwinn DA, et al. **J Biol Chem** 1990 May 15;265(14):8183-9

In vitro expression and site-specific mutagenesis of the cloned human lipoprotein lipase gene. Potential N-linked glycosylation site asparagine 43 is important for both enzyme activity and secretion. Semenkovich CF, et al. **J Biol Chem** 1990 Apr 5;265(10):5429-33

Identification and molecular cloning of a novel mouse mucosal mast cell serine protease. Serafin WE, et al. **J Biol Chem** 1990 Jan 5;265(1):423-9

Expression of cloned human reticulocyte 15-lipoxygenase and immunological evidence that 15-lipoxygenases of different cell types are related. Sigal E, et al. **J Biol Chem** 1990 Mar 25;265(9):5113-20

Purification, characterization, and cDNA cloning of a novel metallothionein-like, cadmium-binding protein from Caenorhabditis elegans. Slice LW, et al. **J Biol Chem** 1990 Jan 5;265(1):256-63

Molecular cloning of a novel mammalian calcium-dependent protease distinct from both m- and mu-types. Specific expression of the mRNA in skeletal muscle. Sorimachi H, et al. **J Biol Chem** 1989 Nov 25;264(33):20106-11

Stop-transfer activity of hydrophobic sequences depends on the translation system. Spiess M, et al. **J Biol Chem** 1989 Nov 15;264(32):19117-24

Molecular cloning and expression of cDNA encoding a peripheral-type benzodiazepine receptor. Sprengel R, et al. **J Biol Chem** 1989 Dec 5;264(34):20415-21

Peptide sequence analysis and molecular cloning reveal two calcium pump isoforms in the human erythrocyte membrane. Strehler EE, et al. **J Biol Chem** 1990 Feb 15; 265(5):2835-42

Cloning and sequencing of the gene for Tetrahymena calcium-binding 25-kDa protein (TCBP-25). Takemasa T, et al. **J Biol Chem** 1989 Nov 15;264(32):19293-301

The third calmodulin family protein in Tetrahymena. Cloning of the cDNA for Tetrahymena calcium-binding protein of 23 kDa (TCBP-23). Takemasa T, et al. **J Biol Chem** 1990 Feb 15;265(5):2514-7

Cloning and functional analysis of a gene encoding a novel muscarinic acetylcholine receptor expressed in chick heart and brain. Tietje KM, et al. **J Biol Chem** 1990 Feb 15; 265(5):2828-34

Tissue-specific expression of four types of rat calmodulin-dependent protein kinase II mRNAs. Tobimatsu T, et al. **J Biol Chem** 1989 Oct 25; 264(30):17907-12

Cloning and expression of the gene encoding Lactobacillus casei folylpoly-gamma-glutamate synthetase in Escherichia coli and determination of its primary structure. Toy J, et al. **J Biol Chem** 1990 Feb 15;265(5):2492-9

Cloning and characterization of cDNA for mitochondrial GTP:AMP phosphotransferase of bovine liver. Yamada M, et al. **J Biol Chem** 1989 Nov 15;264(32):19192-9

Cloning and characterization of DNA complementary to human UDP-GalNAc: Fuc alpha 1——2Gal alpha 1——3GalNAc transferase (histo-blood group A transferase) mRNA. Yamamoto F, et al. **J Biol Chem** 1990 Jan 15;265(2):1146-51

Expression and characterization of calmodulin-dependent protein kinase II from cloned cDNAs in Chinese hamster ovary cells. Yamauchi T, et al. **J Biol Chem** 1989 Nov 15;264(32):19108-16

Molecular characterization of a functional cDNA for rat substance P receptor. Yokota Y, et al. **J Biol Chem** 1989 Oct 25;264(30):17649-52

Synthesis of peptides as cloned ubiquitin extensions. Yoo Y, et al. **J Biol Chem** 1989 Oct 15;264(29):17078-83

Isolation from adult human serum of four insulin-like growth factor (IGF) binding proteins and molecular cloning of one of them that is increased by IGF I administration and in extrapancreatic tumor hypoglycemia. Zapf J, et al. **J Biol Chem** 1990 Sep 5;265(25):14892-8

Cloning and structural characterization of porcine heart aconitase. Zheng L, et al. **J Biol Chem** 1990 Feb 15; 265(5):2814-21

Molecular cloning of cDNA encoding human and rabbit forms of the Ca2+ release channel (ryanodine receptor) of skeletal muscle sarcoplasmic reticulum. Zorzato F, et al. **J Biol Chem** 1990 Feb 5;265(4):2244-56

Fusion of LuxA and LuxB and its expression in E. coli, S. cerevisiae and D. melanogaster. Almashanu S, et al. **J Biolumin Chemilumin** 1990 Apr-Jun;5(2):89-97

Molecular cloning of a human Ca2+-dependent cell-cell adhesion molecule homologous to mouse placental cadherin: its low expression in human placental tissues. Shimoyama Y, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1787-94

Telomere cloning and mammalian chromosome analysis. Brown WR, et al. **J Cell Sci** 1990 Apr;95 (Pt 4):521-6 (51 ref.)

Dystrophin and Duchenne muscular dystrophy: distinguished neuroscientists review the recent revolutionary discoveries of molecular biology [editorial] Brumback RA, et al. **J Child Neurol** 1989 Oct;4(4):238-9 (12 ref.)

Molecular cloning of CD31, a putative intercellular adhesion molecule closely related to carcinoembryonic antigen. Simmons DL, et al. **J Exp Med** 1990 Jun 1;171(6):2147-52

Cloning and expression of Treponema pallidum antigens in Escherichia coli. Bailey MJ, et al. **J Gen Microbiol** 1989 Sep;135 (Pt 9):2365-78

Chloramphenicol resistance in Streptomyces: cloning and characterization of a chloramphenicol hydrolase gene from Streptomyces venezuelae. Mosher RH, et al. **J Gen Microbiol** 1990 Feb;136 (Pt 2):293-301

Insertion of the fusion gene from Newcastle disease virus into a non-essential region in the terminal repeats of fowlpox virus and demonstration of protective immunity induced by the recombinant. Boursnell ME, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):621-8

An investigation of oligopeptides linking domains in protein tertiary structures and possible candidates for general gene fusion. Argos P. **J Mol Biol** 1990 Feb 20;211(4):943-58

Molecular cloning of a cDNA for androgen-regulated proteins secreted by the mouse epididymis. Ghyselinck NB, et al. **J Mol Endocrinol** 1990 Feb;4(1):5-12

Rat brain glutamic acid decarboxylase sequence deduced from a cloned cDNA. Julien JF, et al. **J Neurochem** 1990 Feb;54(2):703-5

Molecular cloning of a human immunoglobulin heavy chain variable (VH) region with anti-myelin-associated glycoprotein activity. Desai R, et al. **J Neuroimmunol** 1990 Jan;26(1):35-41

ARPP-21, a cyclic AMP-regulated phosphoprotein enriched in dopamine-innervated brain regions. II. Molecular cloning and nucleotide sequence. Kurihara T, et al. **J Neurosci** 1989 Oct;9(10):3638-44

Identification of a functional glucocorticoid response element in the phenylethanolamine N-methyltransferase promoter using fusion genes introduced into chromaffin cells in primary culture. Ross ME, et al. **J Neurosci** 1990 Feb; 10(2):520-30

Molecularly cloned simian immunodeficiency virus SIVagm3 is highly divergent from other SIVagm isolates and is biologically active in vitro and in vivo. Baier M, et al. **J Virol** 1989 Dec;63(12):5119-23

A recombinant hepatitis B core antigen polypeptide with the protamine-like domain deleted self-assembles into capsid particles but fails to bind nucleic acids. Gallina A, et al. **J Virol** 1989 Nov;63(11):4645-52

Identification, cloning, and expression of the major capsid protein gene of human herpesvirus 6. Littler E, et al. **J Virol** 1990 Feb;64(2):714-22

A common site for immortalizing proviral integrations in Friend erythroleukemia: molecular cloning and characterization. Paul R, et al. **J Virol** 1989 Nov; 63(11):4958-61

Infectious cDNA clones of the DA strain of Theiler's murine encephalomyelitis virus. Roos RP, et al. **J Virol** 1989 Dec; 63(12):5492-6

Construction of fowlpox virus vectors with intergenic insertions: expression of the beta-galactosidase gene and the measles virus fusion gene. Spehner D, et al. **J Virol** 1990 Feb;64(2):527-33

Molecular cloning, characterization, and expression of the Tipula iridescent virus capsid gene. Tajbakhsh S, et al. **J Virol** 1990 Jan;64(1):125-36

Molecular genetics of the human Na+/glucose cotransporter. Hediger MA, et al. **Klin Wochenschr** 1989 Sep 1;67(17):843-6 (20 ref.)

Expression of engineered antibodies and antibody fragments in microorganisms. Better M, et al. **Methods Enzymol** 1989; 178:476-96

Overexpression of proteins in eukaryotes. Bradley MK. **Methods Enzymol** 1990;182:112-32

Precursor to the major merozoite surface antigen of Plasmodium yoelii: cloning and sequencing of the middle 1.9-kb region. Daly TM, et al. **Mol Biochem Parasitol** 1989 Oct;36(3):283-5

Cloning and analysis of the gene encoding the 230-kilodalton merozoite surface antigen of Plasmodium yoelii. Lewis AP. **Mol Biochem Parasitol** 1989 Oct;36(3):271-82

Molecular cloning of a tissue-specific protein kinase (C gamma) from human testis—representing a third isoform for the catalytic subunit of cAMP-dependent protein kinase. Beebe SJ, et al. **Mol Endocrinol** 1990 Mar; 4(3):465-75

Cloning and expression of ovine placental lactogen. Colosi P, et al. **Mol Endocrinol** 1989 Sep;3(9):1462-9

Molecular cloning of the uteroferrin-associated protein, a major progesterone-induced serpin secreted by the porcine uterus, and the expression of its mRNA during pregnancy. Malathy PV, et al. **Mol Endocrinol** 1990 Mar;4(3):428-40

A low molecular weight insulin-like growth factor binding protein from rat: cDNA cloning and tissue distribution of its messenger RNA. Margot JB, et al. **Mol Endocrinol** 1989 Jul;3(7):1033-60

Cloning and sequence of cDNA for human placental cytokeratin 8. Regulation of the mRNA in trophoblastic cells by cAMP. Yamamoto R, et al. **Mol Endocrinol** 1990 Mar;4(3):370-4

Cloning of human dopamine receptor [news] **Nature** 1990 Sep 6;347(6288):19

Molecular cloning and expression of the gene for a human D1 dopamine receptor. Dearry A, et al. **Nature** 1990 Sep 6;347(6288):72-6

Sequence analysis and acute pathogenicity of molecularly cloned SIVSMM-PBj14 [see comments] Dewhurst S, et al. **Nature** 1990 Jun 14;345(6276):636-40 Comment in: Nature 1990 Jun 14;345(6276):572-3.

Cloning of the T gene required in mesoderm formation in the mouse [see comments] Herrmann BG, et al. **Nature** 1990 Feb 15;343(6259):617-22 Comment in: Nature 1990 Feb 15;343(6259):597-8.

Cloning by functional expression of a member of the glutamate receptor family. Hollmann M, et al. **Nature** 1989 Dec 7;342(6250):643-8

Cloning and structure of a yeast gene encoding a general transcription initiation factor TFIID that binds to the TATA box. Horikoshi M, et al. **Nature** 1989 Sep 28; 341(6240):299-303

Molecular cloning and expression of human hepatocyte growth factor. Nakamura T, et al. **Nature** 1989 Nov 23; 342(6248):440-3

Molecular cloning of the microtubule-associated mechanochemical enzyme dynamin reveals homology with a new family of GTP-binding proteins [see comments] Obar RA, et al. **Nature** 1990 Sep 20;347(6290):256-61 Comment in: Nature 1990 Sep 20;347(6290):229.

Molecular cloning and characterization of a novel dopamine receptor (D3) as a target for neuroleptics. Sokoloff P, et al. **Nature** 1990 Sep 13;347(6289):146-51

Molecular cloning and overexpression of the human FK506-binding protein FKBP. Standaert RF, et al. **Nature** 1990 Aug 16;346(6285):671-4

Neuroscience. A finger on brain receptors [news] Stevens CF. **Nature** 1989 Dec 7;342(6250):620-1

Molecular cloning, expression and regional distribution of rat ciliary neurotrophic factor. Stöckli KA, et al. **Nature** 1989 Dec 21-28;342(6252):920-3

Cloning and expression of human and rat D1 dopamine receptors. Zhou QY, et al. **Nature** 1990 Sep 6; 347(6288):76-80

Cloning and expression of the human and rat m5 muscarinic acetylcholine receptor genes. Bonner TI, et al. **Neuron** 1988 Jul;1(5):403-10

Use of a new strategy to isolate and characterize 436 Drosophila cDNA clones corresponding to RNAs detected in adult heads but not in early embryos. Palazzolo MJ, et al. **Neuron** 1989 Oct;3(4):527-39

Molecular cloning of mouse acetylcholinesterase: tissue distribution of alternatively spliced mRNA species. Rachinsky TL, et al. **Neuron** 1990 Sep;5(3):317-27

Molecular cloning of human neuronal nicotinic receptor alpha 3-subunit. Fornasari D, et al. **Neurosci Lett** 1990 Apr 6;111(3):351-6

Molecular cloning, structure and expression of the yeast proliferating cell nuclear antigen gene. Bauer GA, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):261-5

The characterization of the EBV alkaline deoxyribonuclease cloned and expressed in E. coli. Baylis SA, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7609-22

Cloning and DNA sequence analysis of the cDNA for the common alpha-subunit of the ovine pituitary glycoprotein hormones. Bello PA, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10494

Structure and functional expression of a cloned Xenopus thyroid hormone receptor. Brooks AR, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9395-405

Cloning and characterization of the HpaII methylase gene. Card CO, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1377-83

Structural alterations of the BCR and ABL genes in Ph1 positive acute leukemias with rearrangements in the BCR gene first intron: further evidence implicating Alu sequences in the chromosome translocation. Chen SJ, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7631-42

Direct sequencing of double-stranded DNA PCR products via removing the complementary strand with single-stranded DNA of an M13 clone. Gal S, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1076

An F factor based cloning system for large DNA fragments. Hosoda F, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):3863-9

Purification, cloning and sequence analysis of RsrI DNA methyltransferase: lack of homology between two enzymes, RsrI and EcoRI, that methylate the same nucleotide in identical recognition sequences. Kaszubska W, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10403-25

The basidiomycete Lentinus edodes linear mitochondrial DNA plasmid contains a segment exhibiting a high autonomously replicating sequence activity in Saccharomyces cerevisiae. Katayose Y, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1395-400

Cloning of internal Ca pump from rabbit stomach smooth muscle. Khan I, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):4026

Cloning and characterization of nuclear genes for two mitochondrial ribosomal proteins in Saccharomyces cerevisiae. Kitakawa M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1521-9

Rapid colony screening of YAC libraries by using alginate as matrix support. Lai E, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8008

The molecular cloning of the ovine gamma-interferon cDNA using the polymerase chain reaction. McInnes CJ, et al.

Nucleic Acids Res 1990 Jul 11;18(13):4012

H2A.X. a histone isoprotein with a conserved C-terminal sequence, is encoded by a novel mRNA with both DNA replication type and polyA 3' processing signals. Mannironi C, et al. Nucleic Acids Res 1989 Nov 25;17(22):9113–26

The gram-positive cloning vector pBD64 arose by a 1844 bp deletion of pC194 derived DNA. Minton NP, et al. Nucleic Acids Res 1990 Mar 25;18(6):1651

Structural instability of human tandemly repeated DNA sequences cloned in yeast artificial chromosome vectors. Neil DL, et al. Nucleic Acids Res 1990 Mar 25;18(6):1421–8

Structure and biological activity of the transcriptional initiation sequences of the murine c-myb oncogene. Sobieszczuk PW, et al. Nucleic Acids Res 1989 Dec 11; 17(23):9593–611

Structure of a ribosomal protein gene in Mucor racemosus. Sosa L, et al. Nucleic Acids Res 1989 Nov 25; 17(22):9319–31

D21S194, a jump clone from D21S16. Walker AP, et al. Nucleic Acids Res 1990 Apr 11;18(7):1931

Cloning regions of the Drosophila genome by microdissection of polytene chromosome DNA and PCR with nonspecific primer. Wesley CS, et al. Nucleic Acids Res 1990 Feb 11;18(3):599–603

Cloning and expression of a chicken c-rel cDNA: unlike p59v-rel, p68c-rel is a cytoplasmic protein in chicken embryo fibroblasts. Capobianco AJ, et al. Oncogene 1990 Mar;5(3):257–65

Identification of alternatively spliced transcripts for human c-myb: molecular cloning and sequence analysis of human c-myb exon 9A sequences. Dasgupta P, et al. Oncogene 1989 Dec;4(12):1419–23

Molecular cloning and sequencing of the murine c-fgr gene. King FJ, et al. Oncogene 1990 Mar;5(3):337–44

Rat myogenic c-mos cDNA: cloning sequence analysis and regulation during muscle development. Leibovitch SA, et al. Oncogene 1990 Aug;5(8):1149–57

Direct cloning of leucine zipper proteins: Jun binds cooperatively to the CRE with CRE-BP1. Macgregor PF, et al. Oncogene 1990 Apr;5(4):451–8

The cloning and production of recombinant human erythropoietin. Egrie J. Pharmacotherapy 1990 Mar–Apr; 10(2 (Pt 2)):3S–8S

Modern techniques of differentiating the various phenotypes of phenylketonuria. Guttler F. Postgrad Med J 1989;65 Suppl 2:S2–6

Cloning and identification of a rabbit sperm membrane protein gene. Wang L, et al. Proc Chin Acad Med Sci Peking Union Med Coll 1990; 5(1):4–8

Prolyl 4-hydroxylase: molecular cloning and the primary structure of the alpha subunit from chicken embryo. Bassuk JA, et al. Proc Natl Acad Sci U S A 1989 Oct;86(19):7382–6

Cloning and nucleotide sequence of the gene for protein X from Saccharomyces cerevisiae. Behal RH, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8732–6

Cloning a eukaryotic DNA glycosylase repair gene by the suppression of a DNA repair defect in Escherichia coli. Chen J, et al. Proc Natl Acad Sci U S A 1989 Oct; 86(20):7961–5

Molecular cloning and protein structure of a human blood group Rh polypeptide. Chérif-Zahar B, et al. Proc Natl Acad Sci U S A 1990 Aug;87(16):6243–7

Cloning of a cDNA for a major human protein-tyrosine-phosphatase. Chernoff J, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2735–9

Characterization and immunological identification of cDNA clones encoding two human DNA topoisomerase II isozymes. Chung TD, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9431–5

Molecular cloning of human testicular angiotensin-converting enzyme: the testis isozyme is identical to the C-terminal half of endothelial angiotensin-converting enzyme. Ehlers MR, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):7741–5

Cloning and expression of the delayed-rectifier IsK channel from neonatal rat heart and diethylstilbestrol-primed rat uterus. Folander K, et al. Proc Natl Acad Sci U S A 1990 Apr;87(8):2975–9

Molecular cloning, primary structure, and expression of the human platelet/erythroleukemia cell 12-lipoxygenase. Funk CD, et al. Proc Natl Acad Sci U S A 1990 Aug; 87(15):5638–42

Cloning of the cDNA and gene for a human D2 dopamine receptor. Grandy DK, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9762–6

Cloning and expression of the cDNA for the murine interferon gamma receptor. Gray PW, et al. Proc Natl Acad Sci U S A 1989 Nov;86(21):8497–501

Cloned manganese superoxide dismutase reduces oxidative stress in Escherichia coli and Anacystis nidulans. Gruber MY, et al. Proc Natl Acad Sci U S A 1990 Apr; 87(7):2608–12

Expression cloning of a cDNA encoding the murine interleukin 4 receptor based on ligand binding. Harada N, et al. Proc Natl Acad Sci U S A 1990 Feb;87(3):857–61

Expression of photosynthesis-related gene fusions is restricted by cell type in transgenic plants and in transfected protoplasts. Harkins KR, et al. Proc Natl Acad Sci U S A 1990 Jan;87(2):816–20

Cloning of murine interferon gamma receptor cDNA: expression in human cells mediates high-affinity binding but is not sufficient to confer sensitivity to murine interferon gamma. Hemmi S, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9901–5

Characterization and expression of the complementary DNA encoding rat histidine decarboxylase. Joseph DR, et al. Proc Natl Acad Sci U S A 1990 Jan;87(2):733–7

High-frequency T-DNA-mediated gene tagging in plants. Koncz C, et al. Proc Natl Acad Sci U S A 1989 Nov; 86(21):8467–71

Isolation of a cDNA encoding a murine UDPgalactose:beta-D-galactosyl-1,4-N-acetyl-D-glucosaminide alpha-1,3-galactosyltransferase: expression cloning by gene transfer. Larsen RD, et al. Proc Natl Acad Sci U S A 1989 Nov;86(21):8227–31

Molecular cloning of beta 3 subunit, a third form of the G protein beta-subunit polypeptide. Levine MA, et al. Proc Natl Acad Sci U S A 1990 Mar;87(6):2329–33

Isolation of cDNA clones encoding small nuclear ribonucleoparticle-associated proteins with different tissue specificities. Li S, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9778–82

Developmental and environmental regulation of a phenylalanine ammonia-lyase-beta-glucuronidase gene fusion in transgenic tobacco plants. Liang XW, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9284–8

Molecular cloning and characterization of the ryanodine receptor/junctional channel complex cDNA from skeletal muscle sarcoplasmic reticulum. Marks AR, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8683–7

Cloning and functional expression of a human pancreatic islet glucose-transporter cDNA. Permutt MA, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8688–92

Molecular cloning of a cDNA encoding a major pathogenic domain of the Heymann nephritis antigen gp330. Pietromonaco S, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1811–5

Molecular cloning and sequence analysis of 3-hydroxy-3-methylglutaryl-coenzyme A reductase from the human parasite Schistosoma mansoni. Rajkovic A, et al. Proc Natl Acad Sci U S A 1989 Nov;86(21):8217–21

Cloning and expression of a protective antigen from the cattle tick Boophilus microplus. Rand KN, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9657–61

Cloning of cDNAs that encode human mast cell carboxypeptidase A, and comparison of the protein with mouse mast cell carboxypeptidase A and rat pancreatic carboxypeptidases. Reynolds DS, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9480–4

Molecular cloning of a putative tetrodotoxin-resistant rat heart Na+ channel isoform. Rogart RB, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):8170–4

RTA, a candidate G protein-coupled receptor: cloning, sequencing, and tissue distribution. Ross PC, et al. Proc Natl Acad Sci U S A 1990 Apr;87(8):3052–6

Expression of a cloned streptavidin gene in Escherichia coli. Sano T, et al. Proc Natl Acad Sci U S A 1990 Jan; 87(1):142–6

Evolution of immunoglobulin light chains: cDNA clones specifying sandbar shark constant regions. Schluter SF, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9961–5

Molecular cloning and sequence analysis of chum salmon gonadotropin cDNAs. Sekine S, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8645–9

Cloning of the cDNA encoding the myosin heavy chain of a vertebrate cellular myosin. Shohet RV, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):7726–30

Cloning the interleukin 1 receptor from human T cells. Sims JE, et al. Proc Natl Acad Sci U S A 1989 Nov; 86(22):8946–50

Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs. Sternberg N. Proc Natl Acad Sci U S A 1990 Jan;87(1):103–7

Isolation of a cDNA clone of the 14-kDa subunit of the signal recognition particle by cross-hybridization of differently primed polymerase chain reactions. Strub K, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9747–51

Molecular cloning of human protein 4.2: a major component of the erythrocyte membrane. Sung LA, et al. Proc Natl Acad Sci U S A 1990 Feb;87(3):955–9

Molecular cloning of mevalonate kinase and regulation of its mRNA levels in rat liver. Tanaka RD, et al. Proc Natl Acad Sci U S A 1990 Apr;87(8):2872–6

Molecular cloning and sequencing of a cDNA of rat dopa decarboxylase: partial amino acid homologies with other enzymes synthesizing catecholamines. Tanaka T, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):8142–6

Molecular cloning and sequence of cDNA encoding polyoma medium tumor antigen-associated 61-kDa protein. Walter G, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8669–72

Molecular cloning of a cDNA encoding a human macrophage migration inhibitory factor. Weiser WY, et al. Proc Natl Acad Sci U S A 1989 Oct;86(19):7522–6

Molecular cloning of a plant betaine-aldehyde dehydrogenase, an enzyme implicated in adaptation to salinity and drought. Weretilnyk EA, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2745–9

Molecular cloning of the murine BP-1/6C3 antigen: a member of the zinc-dependent metallopeptidase family. Wu Q, et al. Proc Natl Acad Sci U S A 1990 Feb;87(3):993–7

Structure and function of neuronal nicotinic acetylcholine receptors deduced from cDNA clones. Patrick J, et al. Prog Brain Res 1989;79:27–33

Evidence for the cloning of Deinococcus radiodurans DNA fragments that render Escherichia coli radiation resistant. Barrows LR. Radiat Res 1989 Dec;120(3):537–44

Parathyroid hormone-related protein: isolation, molecular cloning, and mechanism of action. Martin TJ, et al. Recent Prog Horm Res 1989;45:467–502; discussion 502–6 (121 ref.)

Transgenesis: the challenge for the reproductive biologist. Seamark RF. Reprod Fertil Dev 1989;1(4):391–5 (53 ref.)

A reverse genetics approach to Bcg/Ity/Lah gene cloning. Gros P, et al. Res Immunol 1989 Oct;140(8):774–7

Molecular cloning and expression of Bacillus thuringiensis subsp. galleriae insecticidal crystal protein genes in Escherichia coli. Chen Q, et al. Sci China [B] 1989 Jul; 32(7):830–6

Molecular cloning and expression of a complementary DNA for inositol 1,4,5-trisphosphate 3-kinase. Choi KY, et al. Science 1990 Apr 6;248(4951):64–6

One Wilms' tumor gene is cloned; are there more? [news] Hoffman M. Science 1989 Dec 15;246(4936):1387

Cloning of an interleukin-3 receptor gene: a member of a distinct receptor gene family. Itoh N, et al. Science 1990 Jan 19;247(4940):324–7

PECAM-1 (CD31) cloning and relation to adhesion molecules of the immunoglobulin gene superfamily. Newman PJ, et al. Science 1990 Mar 9;247(4947):1219–22

Molecular cloning of the thyrotropin receptor. Parmentier M, et al. Science 1989 Dec 22;246(4937):1620–2

The great clone giveaway [news] Roberts L. Science 1990 May 25;248(4958):956

Staphylococcus carnosus: a new host organism for gene cloning and protein production. Götz F. Soc Appl Bacteriol Symp Ser 1990;19:49S–53S (18 ref.)

Isolation and characterization of human blood platelet mRNA and construction of a cDNA library in lambda gt11. Confirmation of the platelet derivation by identification of GPIb coding mRNA and cloning of a GPIb coding cDNA insert. Wicki AN, et al. Thromb Haemost 1989 Jun 30;61(3):448–53

Cloning and expression of the chicken ovary aromatase P-450: expression of mRNA in tissues of the Sebright and Leghorn chicken. McPhaul MJ, et al. Trans Assoc Am Physicians 1988;101:219–25

Alternative splicing or cloning artefact? [letter] Moss SE, et al. Trends Biochem Sci 1989 Aug;14(8):325

PCR and the cloning of receptor subtype genes. Watson SP, et al. Trends Pharmacol Sci 1989 Sep;10(9):346–8 (8 ref.)

Cloning and expression of the cDNA for bovine granulocyte-macrophage colony-stimulating factor. Leong SR, et al. Vet Immunol Immunopathol 1989 Jul; 21(3–4):261–78

Cloning of the human parvovirus B19 genome and structural analysis of its palindromic termini. Deiss V, et al. Virology 1990 Mar;175(1):247–54

Molecular cloning of DNA sequences from cervical intraepithelial neoplasia that hybridize to human cytomegalovirus DNA. Fletcher K, et al. Virus Genes 1989 Aug;2(4):323–33

[Genetic analysis of Streptomyces erythreus heteroclones. II. Determination of the distances between genetic loci on the map] Pencheva R, et al. Acta Microbiol Bulg 1989; 24:61–8 (Eng. Abstr.) (Bul)

[Cloning and sequencing of hemolysin gene from clinical Aeromonas hydrophila] Liou JJ, et al. Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih 1990 May;23(2):134–46 (Eng. Abstr.) (Chi)

[Effect of transplanted neurotransmitter receptors and ion channels in molecular cloning] Ni Y. Sheng Li Ko Hsueh Chin Chan 1990 Jan;21(1):61–4 (29 ref.) (Chi)

[Cloning and sequence analysis of cDNA of common precursors of three hypothalamic neuropeptides immunologically related to human somatocrinin 1–37, alpha melanotropin and salmon melanin-concentrating hormone] Breton C, et al. C R Acad Sci [III] 1989;309(20):749–54 (Eng. Abstr.) (Fre)

[Cloning of the cDNA, while encoding a hypothalamic neuropeptide in the rat, related to the melanin-concentrating hormone in the salmon] Breton C, et al. C R Soc Biol (Paris) 1989;183(3):216–22 (Eng. Abstr.) (Fre)

[The significance of molecular biology in hypertension research] Ganten D. Fortschr Med 1989 Nov 30; 107(34):725–6 (Ger)

[Prenatal diagnosis] Huber JC. Gynakol Rundsch 1989;29 Suppl 2:248–50 (Ger)

[A new star in the heavens of epidermal proteins: loricrin—what is it?] Hohl D. Hautarzt 1990 Jun; 41(6):299–301 (9 ref.) (Eng. Abstr.) (Ger)

[Molecular immunology in pediatrics] Kaulfersch W. Padiatr Padol 1989;24(3):249–63 (72 ref.) (Eng. Abstr.) (Ger)

[Significance of molecular genetics in leukemia and malignant lymphoma] Bartram CR. Verh Dtsch Ges Inn Med 1989; 95:327–32 (40 ref.) (Ger)

[Genetically-induced liver diseases: molecular basis and therapeutic implications] Eriksson S. Z Gastroenterol [Verh] 1990 Apr;25:6–9 (12 ref.) (Ger)

[Research forum II: Molecular biology research developments in gastroenterology. Introduction] Manns M.

Z Gastroenterol [Verh] 1990 Apr;25:85–6 (23 ref.) (Ger)
[Molecular biology in the differentiation between pathogenic and apathogenic isolates of Entamoeba histolytica] Tannich E, et al. Z Gastroenterol [Verh] 1990 Apr;25:71–4 (Ger)
[Molecular cloning and expression of Mycobacterium tuberculosis strain Aoyama B peptide antigen genes in Escherichia coli—a gene encoding 15 kD antigen (AT 01)] Tanaka T. Kekkaku 1989 May;64(5):351–60 (Eng. Abstr.) (Jpn)
[Gene cloning of an Actinobacillus actinomycetemcomitans Y4 antigen that reacts to peripheral blood sera in advanced destructive periodontitis patients] Arakawa S. Kokubyo Gakkai Zasshi 1989 Dec;56(4):494–512 (Eng. Abstr.) (Jpn)
[cDNA cloning of PGF synthase] Watanabe K. Nippon Rinsho 1990 Jun;48(6):1295–302 (Jpn)
[Motilin and GIP—molecular cloning, chromosomal localization, and tissue specific expression of these genes] Yano H, et al. Nippon Rinsho 1989 Oct;47(10):2260–4 (Jpn)
[Molecular biological approach to orthopaedic research—analysis of cartilage collagens] Kimura T, et al. Nippon Seikeigeka Gakkai Zasshi 1989 Sep;63(9):1132–44 (Jpn)
[Cloning and study of the structure of erythromycin biosynthesis and resistance gene cluster in Streptomyces erythraeus] Danilenko VN, et al. Dokl Akad Nauk SSSR 1990 Jan–Feb;310(1):218–22 (Rus)
[Cloning and gene expression determining phenol breakdown in Pseudomonas putida strains] Kibisaar MA, et al. Dokl Akad Nauk SSSR 1989;309(4):1002–4 (Rus)
[Cloning and expression of chymosin in mammalian cells] Kol'mer MI, et al. Dokl Akad Nauk SSSR 1989 Sep–Oct; 308(1):234–7 (Rus)
[Cloning and expression in Escherichia coli of the pol region of human immunodeficiency virus genome] Shulenin SV, et al. Dokl Akad Nauk SSSR 1990 Jan–Feb;310(1):210–3 (Rus)
[Cloning of cDNA fragment of human brain kainate receptor] Smirnova TM, et al. Dokl Akad Nauk SSSR 1989; 309(3):745–8 (Rus)
[Expression in mouse L cells of mos-related ORAgp5 locus cloned from the human genome] Tret'iakov LO, et al. Genetika 1990 Jan;26(1):12–7 (Eng. Abstr.) (Rus)
[Cloning of the RIB1 gene coding for the enzyme of the first stage of flavinogenesis in the yeast Pichia guilliermondi, GTP cyclohydrolase, in Escherichia coli cells] Zakal'skiĭ AE, et al. Genetika 1990 Apr;26(4):614–20 (Eng. Abstr.) (Rus)
[Topoisomerase I from human placenta. Functional activity of products of expression of cloned cDNA fragments] Bronshteĭn IB, et al. Mol Biol (Mosk) 1989 Nov–Dec; 23(6):1553–7 (Eng. Abstr.) (Rus)
[Cloning of tobacco DNA fragment with promoter properties in a transgenic plant] Domanskiĭ NN, et al. Mol Biol (Mosk) 1989 Sep–Oct;23(5):1391–9 (Eng. Abstr.) (Rus)
[Cloning and regulation of gene expression of EcoRV restriction- modification system] Kravets AN, et al. Mol Biol (Mosk) 1990 Mar–Apr;24(2):438–47 (Eng. Abstr.) (Rus)
[Cloning and structural analysis of genes coding for tumor necrosis factor and lymphotoxin in rabbits] Shakhov AN, et al. Mol Biol (Mosk) 1989 Nov–Dec;23(6):1743–50 (Eng. Abstr.) (Rus)
[A phased poly-linker for cloning and expression of genes] Karpov VA, et al. Mol Gen Mikrobiol Virusol 1989 Sep; (9):28–33 (Eng. Abstr.) (Rus)
[Cloning and structural analysis of cDNA coding for human prointerleukin-1 alpha and prointerleukin-1 beta] Kotenko SV, et al. Mol Gen Mikrobiol Virusol 1989 Dec;(12):13–7 (Eng. Abstr.) (Rus)
[Cloning of alpha-hemolysin gene from Staphylococcus aureus strain 015] Meshveliani DK, et al. Mol Gen Mikrobiol Virusol 1990 Mar;(3):9–11 (Eng. Abstr.) (Rus)
[Cloning of the Streptococcus thermophilus beta-galactosidase gene and its expression in Escherichia coli and Bacillus subtilis cells] Molotov SV, et al. Mol Gen Mikrobiol Virusol 1990 Apr;(4):10–4 (Eng. Abstr.) (Rus)
[Cloning and expression of the determinant for resistance to a new class of tetracycline in Escherichia coli strains] Parfenova OV, et al. Mol Gen Mikrobiol Virusol 1989 Jul; (7):3–7 (Eng. Abstr.) (Rus)
[The use of mini-Mu-replicons for cloning of various structural genes of Yersinia pestis] Rakin AV, et al. Mol Gen Mikrobiol Virusol 1990 May;(5):24–7 (Eng. Abstr.) (Rus)
[Cloning genes, induced by x-ray irradiation in rat liver cells] Timchenko LT, et al. Mol Gen Mikrobiol Virusol 1989 Jul; (7):35–8 (Eng. Abstr.) (Rus)
[Isolation and characteristics of a recombinant pOV13 plasmid as a vector for DNA cloning in a broad range of bacterial hosts] Zakharenko VI, et al. Mol Gen Mikrobiol Virusol 1989 Dec;(12):33–8 (Eng. Abstr.) (Rus)
[Functional properties of the pOV13 plasmid as a vector for DNA cloning in a broad spectrum of gram negative bacteria] Zakharenko VI, et al. Mol Gen Mikrobiol Virusol 1990 Jan;(1):22–6 (Eng. Abstr.) (Rus)

METHODS

Methods for cloning key primary metabolic enzymes and ancillary proteins associated with the acetone-butanol fermentation of Clostridium acetobutylicum. Cary JW, et al. Ann N Y Acad Sci 1990;589:67–81
Differential cloning approaches to the nervous system. Milner RJ. Ann N Y Acad Sci 1990;579:273–80 (38 ref.)
Cloning of the gene for cell-surface protein antigen A from Streptococcus sobrinus (serotype d). Abiko Y, et al. Arch Oral Biol 1989;34(7):571–5
Expression of rat hepatic glucokinase in Escherichia coli. Chien CT, et al. Biochem Biophys Res Commun 1989 Dec 15;165(2):817–25
Expression of human parathyroid hormone in Escherichia coli. Høgset A, et al. Biochem Biophys Res Commun 1990 Jan 15;166(1):50–60
Cloning, sequencing and expression of human TSH receptor. Misrahi M, et al. Biochem Biophys Res Commun 1990 Jan 15;166(1):394–403
Cloning and sequence analysis of a rat liver cDNA encoding hydroxysteroid sulfotransferase. Ogura K, et al. Biochem Biophys Res Commun 1989 Nov 30;165(1):168–74
A new recombinant DNA strategy for the molecular cloning of rare membrane proteins. Brake B, et al. Biochem J 1990 May 1;267(3):631–7
Identification, sequencing and expression of an integral membrane protein of the trans-Golgi network (TGN38). Luzio JP, et al. Biochem J 1990 Aug 15;270(1):97–102
YAC power. Jordan B. Bioessays 1990 Apr;12(4):183–7 (7 ref.)
Short cuts for genomic walking: chromosome microdissection and the polymerase chain reaction. Saunders RD. Bioessays 1990 May;12(5):245–8 (39 ref.)
An adaptor strategy to subclone entire cDNA libraries as single insert recombinants. Böttger EC. Biotechniques 1989 Oct;7(9):925–6, 928–9
Direct cDNA cloning of the rearranged immunoglobulin variable region. Chiang YL, et al. Biotechniques 1989 Apr; 7(4):360–6
Hybribox: a device for processing numbers of radioactively labeled hybridization filters with a minimum of personal exposure. Cohen LW, et al. Biotechniques 1990 Apr; 8(4):362–4
Full-length cDNA cloning utilizing the polymerase chain reaction, a degenerate oligonucleotide sequence and a universal mRNA primer. Cooper DL, et al. Biotechniques 1990 Jul;9(1):60–5
Application of polymerase chain reaction for rapid subcloning of cDNA inserts from lambda gt11 clones. Herrmann J, et al. Biotechniques 1990 Apr;8(4):376–81
Targeted DNA sequencing: rapid identification of DNA clones by sequencing DNA using mixed oligodeoxynucleotide probes as primers. Javed AA, et al. Biotechniques 1990 Jul;9(1):28–32
Rapid cDNA cloning directly from small quantities of total RNA. Kao HT. Biotechniques 1988 May;6(5):419–20
Rapid generation of subclones for DNA sequencing using the reverse cloning procedure. Liu ZJ, et al. Biotechniques 1989 Jul–Aug;7(7):722–8
Use of modified T7 DNA polymerase in low melting point agarose for DNA gap filling and molecular cloning. Majumdar D, et al. Biotechniques 1989 Feb;7(2):188–91
Method for cloning single-stranded oligonucleotides in a plasmid vector [published erratum appears in Biotechniques 1989 Jun;7(6):570] Mounts P, et al. Biotechniques 1989 Apr; 7(4):356–9
Convenient uses of polymerase chain reaction in analyzing recombinant cDNA clones. Nishikawa BK, et al. Biotechniques 1989 Jul–Aug;7(7):730–5
An improvement and simplification in the Gubler-Hoffman method of cDNA synthesis. Polites HG. Biotechniques 1988 Sep;6(8):720–1, 723, 725
Molecular cloning of sequence-specific DNA binding proteins using recognition site probes. Singh H, et al. Biotechniques 1989 Mar;7(3):252–61 (53 ref.)
pSPAT vectors: versatile vectors for in vitro transcription and rapid interconversion of BamHI and EcoRI sites. Wilson B, et al. Biotechniques 1990 Jul;9(1):42, 44–5
A rapid procedure for removal of excess linkers. Wilson VG. Biotechniques 1988 Sep;6(8):733
Bacillus brevis, a host bacterium for efficient extracellular production of useful proteins. Udaka S, et al. Biotechnol Genet Eng Rev 1989;7:113–46 (74 ref.)
Principles of DNA cloning. Miles JS, et al. BMJ 1989 Oct 21;299(6706):1019–22 (14 ref.)
Synthetic peptide antisera: their production and use in the cloning of matrix proteins. Fisher LW, et al. Connect Tissue Res 1989;21(1–4):43–8; discussion 49–50
A rapid procedure for cloning genes from lambda libraries by complementation of E. coli defective mutants: application to the fabE region of the E. coli chromosome. Alix JH. DNA 1989 Dec;8(10):779–89
Immobilization and affinity purification of recombinant proteins using histidine peptide fusions. Ljungquist C, et al. Eur J Biochem 1989 Dec 22;186(3):563–9
Factor Xa cleavage of fusion proteins. Elimination of non-specific cleavage by reversible acylation. Wearne SJ. FEBS Lett 1990 Apr 9;263(1):23–6
A novel cDNA/PCR strategy for efficient cloning of small amounts of undefined RNA. Akowitz A, et al. Gene 1989 Sep 30;81(2):295–306
Insertional mutagenesis using a synthetic lac operator [published erratum appears in Gene 1990 Mar 1;87(1):155] Bautista DS, et al. Gene 1989 Oct 30;82(2):201–8
Cloning of chromosome I DNA from Saccharomyces cerevisiae: mutational analysis of the FUN2 transcribed region. Crowley JC, et al. Gene 1989 Nov 30;83(2):381–5
Recombinant selection by microinjection: a simple cDNA cloning procedure for production of exclusively sense RNA transcripts. Digweed M, et al. Gene 1989 Nov 15; 83(1):147–52
Modified bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Elvin CM, et al. Gene 1990 Mar 1;87(1):123–6
Development of a beta-galactosidase alpha-complementation system for molecular cloning in Bacillus subtilis. Haima P, et al. Gene 1990 Jan 31;86(1):63–9
An MboII/FokI trimming plasmid allowing consecutive cycles of precise 1- to 12-base-pair deletions in cloned DNA. Hasan N, et al. Gene 1989 Oct 30;82(2):305–11
A cassette with seven unique restriction sites, including octanucleotide sequences: extension of multiple-cloning-site plasmids. Honeisel JD. Gene 1989 Aug 1;80(1):151–4
Phage particle-mediated gene transfer of recombinant cosmids to cultured mammalian cells. Ishiura M, et al. Gene 1989 Oct 30;82(2):281–9
Structurally stable Bacillus subtilis cloning vectors. Jannière L, et al. Gene 1990 Mar 1;87(1):53–61
Phagemid VPCS vectors for priming, cloning and sequencing. Krawetz SA, et al. Gene 1989 Oct 30; 82(2):317–20
Sumo15A: a lambda phasmid that permits easy selection for and against cloned inserts. Kurachi S, et al. Gene 1989 Dec 21;85(1):35–43
Escherichia coli recA deletion strains that are highly competent for transformation and for in vivo phage packaging. Kurnit DM. Gene 1989 Oct 30;82(2):313–5
An efficient directional cloning system to construct cDNA libraries containing full-length inserts at high frequency. Miki T, et al. Gene 1989 Nov 15;83(1):137–46
Changes in a mammalian signal sequence required for efficient protein secretion by yeasts. Ngsee JK, et al. Gene 1990 Feb 14;86(2):251–5
Cloning vectors, derived from a naturally occurring plasmid of Pseudomonas savastanoi, specifically tailored for genetic manipulations in Pseudomonas. Nieto C, et al. Gene 1990 Mar 1;87(1):145–9
Cloning and characterisation of the serC and aroA genes of Yersinia enterocolitica, and construction of an aroA mutant. O'Gaora P, et al. Gene 1989 Dec 7;84(1):23–30
Differential screening of a cDNA library with cDNA probes amplified in a heterologous host: isolation of murine GRP78 (BiP) and other serum-regulated low-abundance mRNAs. Parfett CL, et al. Gene 1989 Oct 30;82(2):291–300
A multipurpose vector for the study of transcriptional control. Robbins J, et al. Gene 1989 Dec 28;85(2):541–4
A rapid and efficient cloning method with a solid-phase DNA probe: application for cloning the 5'-flanking region of the gene encoding human fibronectin. Tsurui H, et al. Gene 1990 Apr 16;88(2):233–9
An improved method for yeast 2 microns plasmid curing. Xiao W, et al. Gene 1990 Apr 16;88(2):241–5
Directional cloning of cDNA using a selectable SfiI cassette. Zelenetz AD, et al. Gene 1990 Apr 30;89(1):123–7
Direct cloning of cDNA inserts from lambda gt11 phage DNA into a plasmid vector by a novel and simple method. Chiu IM, et al. Genet Anal 1990 Feb;7(1):18–23
Cloning of sheep and cow embryos. Willadsen SM. Genome 1989;31(2):956–62 (14 ref.)
On the application of molecular cloning to developmental neurobiology. Schrier BK, et al. Int J Neurol 1982–83; 16–17:46–60
Cloning of 1,2-dichloroethane degradation genes of Xanthobacter autotrophicus GJ10 and expression and sequencing of the dhlA gene. Janssen DB, et al. J Bacteriol 1989 Dec;171(12):6791–9
Improved vector system for constructing transcriptional fusions that ensures independent translation of lacZ. Linn T, et al. J Bacteriol 1990 Feb;172(2):1077–84
Analysis of protein localization by use of gene fusions with complementary properties. Manoil C. J Bacteriol 1990 Feb; 172(2):1035–42
Use of a wild-type gene fusion to determine the influence of environmental conditions on expression of the S fimbrial adhesin in an Escherichia coli pathogen. Schmoll T, et al. J Bacteriol 1990 Sep;172(9):5103–11
The use of gene fusions to determine the topology of all of the subunits of the cytochrome o terminal oxidase complex of Escherichia coli. Chepuri V, et al. J Biol Chem 1990 Aug 5;265(22):12978–86
Cloning of murine adipocyte lipid binding protein in Escherichia coli. Its purification, ligand binding properties, and phosphorylation by the adipocyte insulin receptor. Chinander LL, et al. J Biol Chem 1989 Nov 25; 264(33):19564–72
Isolation, characterization, and expression in Escherichia coli of two murine Mu class glutathione S-transferase cDNAs homologous to the rat subunits 3 (Yb1) and 4 (Yb2). Townsend AJ, et al. J Biol Chem 1989 Dec 25; 264(36):21582–90
Two forms of omega-hydroxylase toward prostaglandin A

and laurate. cDNA cloning and their expression. Yokotani N, et al. **J Biol Chem** 1989 Dec 25;264(36):21665–9
Molecular cloning of the cDNA for ligatin. Jakoi ER, et al. **J Cell Sci** 1989 Jun;93 (Pt 2):227–32
Cloning in Escherichia coli of the enterotoxin gene from Clostridium perfringens type A. Iwanejko LA, et al. **J Gen Microbiol** 1989 Apr;135 (Pt 4):903–9
Planning the purification process of active cDNA in expression cloning strategies. Brunden MN, et al. **J Theor Biol** 1990 May 22;144(2):145–54
Ping-pong amplification of a retroviral vector achieves high-level gene expression: human growth hormone production. Kozak SL, et al. **J Virol** 1990 Jul;64(7):3500–8
Development of a retroviral vector for inducible expression of transforming growth factor beta 1. McGeady ML, et al. **J Virol** 1990 Jul;64(7):3527–31
Characterization of the pneumococcal bacteriophage HB-3 amidase: cloning and expression in Escherichia coli. Romero A, et al. **J Virol** 1990 Jan;64(1):137–42
Construction and characterization of an infectious DNA clone and of mutants of simian immunodeficiency virus isolated from the African green monkey. Shibata R, et al. **J Virol** 1990 Jan;64(1):307–12
Encapsulation of cells in agarose beads for use in the construction of human DNA libraries as yeast artificial chromosomes (YAC). Yokoyama K, et al. **Jinrui Idengaku Zasshi** 1990 Jun;35(2):131–43
Design and construction of expression plasmid vectors in Escherichia coli. Balbas P, et al. **Methods Enzymol** 1990; 185:14–37 (99 ref.)
Overproduction of proteins in Escherichia coli: vectors, hosts, and strategies. Das A. **Methods Enzymol** 1990; 182:93–112
Expression of heterologous proteins in Escherichia coli. Gold L. **Methods Enzymol** 1990;185:11–4
Minimizing proteolysis in Escherichia coli: genetic solutions. Gottesman S. **Methods Enzymol** 1990;185:119–29
Recombinant antibodies possessing novel effector functions. Love TW, et al. **Methods Enzymol** 1989;178:515–27
Fusions to staphylococcal protein A. Nilsson B, et al. **Methods Enzymol** 1990;185:144–61
Vector for enhanced translation of foreign genes in Escherichia coli. Olins PO, et al. **Methods Enzymol** 1990; 185:115–9
Expression of functional antibody Fv and Fab fragments in Escherichia coli. Plückthun A, et al. **Methods Enzymol** 1989;178:497–515
Propagation and expression of cloned genes in yeast: 2-microns circle-based vectors. Rose AB, et al. **Methods Enzymol** 1990;185:234–79 (175 ref.)
Use of T7 RNA polymerase to direct expression of cloned genes. Studier FW, et al. **Methods Enzymol** 1990;185:60–89
Gene fusions for purpose of expression: an introduction. Uhlén M, et al. **Methods Enzymol** 1990;185:129–43 (53 ref.)
Using purified protein to clone its gene. Wozney JM. **Methods Enzymol** 1990;182:738–51
Sequencing of Saccharomyces telomeres cloned using T4 DNA polymerase reveals two domains. Wang SS, et al. **Mol Cell Biol** 1990 Aug;10(8):4415–9
Improved single-stranded DNA producing expression vectors for protein manipulation in Escherichia coli. Büttcher V, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1075
Purification of yeast—E. coli shuttle plasmid suitable for high transformation frequency in E. coli. Chow TY. **Nucleic Acids Res** 1989 Oct 25;17(20):8391
A method for the preparative isolation and concentration of intact yeast artificial chromosomes. Couto LB, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8010
A phage screening method to isolate intron-containing genes in the presence of multiple processed pseudogenes. Feo S, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4949–50
Improved efficiency M13 cloning using electroporation. Heery DM, et al. **Nucleic Acids Res** 1989 Oct 11; 17(19):8006
Curing of a plasmid from E.coli using high-voltage electroporation. Heery DM, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10131
Cloning, characterization and heterologous expression of the SmaI restriction-modification system. Heidmann S, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9783–96
A simple method for direct cloning cDNA sequence that flanks a region of known sequence from total RNA by applying the inverse polymerase chain reaction. Huang SH, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1922
Engineered gene for Escherichia coli alkaline phosphatase for the construction of translational fusions. Kohl J, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1069
Improvement of the cloning linker of the bacterial expression vector pEX. Kusters JG, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8007
Vectors with multiple insertion sites for expression of cloned genes by T7 RNA polymerase: expression of a peptide from EBV thymidine kinase (TK). Mackett M, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1082
Yeast vectors for cloning and copper-inducible expression of foreign genes. Macreadie IG. **Nucleic Acids Res** 1990 Feb 25;18(4):1078
The use of two-cistron constructions in improving the expression of a heterologous gene in E. coli. Makoff AJ, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1711–8
PCR amplification of DNA microdissected from a single polytene chromosome band: a comparison with conventional microcloning. Saunders RD, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9027–37
A rapid semi-automated microtiter plate method for analysis and sequencing by PCR from bacterial stocks. Schofield JP, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9498
PCR-induced (ligase-free) subcloning: a rapid reliable method to subclone polymerase chain reaction (PCR) products. Shuldiner AR, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1920
Application for PCR technology to subtractive cDNA cloning: identification of genes expressed specifically in murine plasmacytoma cells. Timblin C, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1587–93
Improved cDNA cloning into bacteriophage lambda gt11. van Doorn LJ, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):9496
A modified CAT expression vector with convenient cloning sites. Wu YL, et al. **Nucleic Acids Res** 1990 Apr 11; 18(7):1919
Host-vector systems. Kingsman SM, et al. **Philos Trans R Soc Lond [Biol]** 1989 Aug 31; 324(1224):477–85 (26 ref.)
Syngeneic monoclonal antimelanoma antibodies and their application for analysis of tumor antigens, gene cloning, and in vitro/in vivo diagnosis. Taniguchi M, et al. **Pigment Cell Res** 1989 Jul-Aug;2(4):254–8 (16 ref.)
Characterization, cloning, curing, and distribution in lactic acid bacteria of pLP1, a plasmid from Lactobacillus plantarum CCM 1904 and its use in shuttle vector construction. Bringel F, et al. **Plasmid** 1989 Nov; 22(3):193–202
Cloning of the gene encoding the yeast protein BTF1Y, which can substitute for the human TATA box-binding factor. Cavallini B, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9803–7
A rapid method of cloning functional variable-region antibody genes in Escherichia coli as single-chain immunotoxins [published erratum appears in Proc Natl Acad Sci U S A 1990 Apr;87(8):3253] Chaudhary VK, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1066–70
Genes for Plasmodium falciparum surface antigens cloned by expression in COS cells. Elliott JF, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6363–7
Rapid cloning of HLA-A,B cDNA by using the polymerase chain reaction: frequency and nature of errors produced in amplification. Ennis PD, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2833–7
Cloning of human calcineurin A: evidence for two isozymes and identification of a polyproline structural domain. Guerini D, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9183–7
Cloning by function: an alternative approach for identifying yeast homologs of genes from other organisms. Kranz JE, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6629–33
Cloning and characterization of band 3, the human erythrocyte anion-exchange protein (AE1). Lux SE, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9089–93
Expression cloning of the murine interferon gamma receptor cDNA. Munro S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9248–52
Cloning of three human multifunctional de novo purine biosynthetic genes by functional complementation of yeast mutations. Schild D, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2916–20
Genomic subtraction for cloning DNA corresponding to deletion mutations. Straus D, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1189–93
A method for difference cloning: gene amplification following subtractive hybridization. Wieland I, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2720–4
Differential cloning of genomic DNA: cloning of DNA with an altered primary structure by in-gel competitive reassociation. Yokota H, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6398–402
Cloning Drosophila repair genes by transposon tagging. Boyd JB, et al. **Prog Clin Biol Res** 1990;340A:205–11
Chromosomal aneuploidy in Saccharomyces cerevisiae. Spencer F, et al. **Prog Clin Biol Res** 1989;318:293–306
Rapid and efficient site-specific mutagenesis. Baldrich M, et al. **Protein Eng** 1990 May;3(6):563
A dual-affinity gene fusion system to express small recombinant proteins in a soluble form: expression and characterization of protein A deletion mutants. Jansson B, et al. **Protein Eng** 1990 May;3(6):555–61
A simple method for subcloning DNA fragments from gel slices. Heery DM, et al. **Trends Genet** 1990 Jun;6(6):173
[Cloning of the cDNA coding for human prointerleukin-1 alpha and prointerleukin-1 beta] Kotenko SV, et al. **Dokl Akad Nauk SSSR** 1989;309(4):1005–8 **(Rus)**
[The cloning and determination of the nucleotide sequence of the RNAse gene in Bacillus intermedius] Nurkiianova KM, et al. **Dokl Akad Nauk SSSR** 1989;309(6):1476–9 **(Rus)**
[The cloning and expression of the Staphylococcus aureus enterotoxin A gene in Escherichia coli cells] Chikindas ML, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Feb; (2):18–20 (Eng. Abstr.) **(Rus)**

CLONING VECTORS see **GENETIC VECTORS**

CLONIXIN see under **NICOTINIC ACIDS**

CLONOGENIC CELL ASSAY see **COLONY-FORMING UNITS ASSAY**

CLONORCHIASIS

COMPLICATIONS

Parasitic causes of obstructive jaundice. Dennis MJ, et al. **Ann Trop Med Parasitol** 1989 Apr;83(2):159–61
Enhancement of dimethylnitrosamine-induced glutathione S-transferase P-positive hepatic foci by Clonorchis sinensis infestation in F344 rats. Jang JJ, et al. **Cancer Lett** 1990 Jul 16;52(2):133–8

DIAGNOSIS

Counterimmunoelectrophoresis test on human Clonorchis sinensis infection. Yen CM, et al. **Southeast Asian J Trop Med Public Health** 1989 Sep; 20(3):433–8
[Immunological screening of clonorchiasis] Lin YL, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Jan;89(1):49–54 (Eng. Abstr.) **(Chi)**
[A case of severe clonorchiasis] Sorokopud OP, et al. **Klin Med (Mosk)** 1990 Jan;68(1):111–2 **(Rus)**

DRUG THERAPY

Experience in the treatment of clonorchiasis by Professor Deng Tietao. Deng ZY, et al. **J Tradit Chin Med** 1982 Jun;2(2):131–4
[Infection by Clonorchis sinensis in Asian immigrants in Brazil. Treatment with praziquantel] Leite OH, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec;31(6):416–22 (Eng. Abstr.) **(Por)**

IMMUNOLOGY

A preliminary study of clinical staging in clonorchiasis. Chen CY, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Aug;22(3):193–200

METABOLISM

[Changes in bile composition in rabbits infected with Clonorchis sinensis] Guo R, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):29–31 (Eng. Abstr.) **(Chi)**

PARASITOLOGY

[Histochemical changes in Clonorchis sinensis after pyquiton treatment] Pang X, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):32–4 (Eng. Abstr.) **(Chi)**
[Clinico-parasitological research in a mixed focus of clonorchiasis and intestinal nematodiasis in Hanamnin Province (the Socialist Republic of Vietnam)] Kieu TL, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):24–6 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 33–1990. A 72-year-old Chinese woman with recent abdominal pain and a right-sided abdominal mass. **N Engl J Med** 1990 Aug 16; 323(7):467–75

RADIOGRAPHY

Clonorchiasis of the pancreas. Lim JH, et al. **Clin Radiol** 1990 Mar;41(3):195–8

CLONORCHIS SINENSIS

IMMUNOLOGY

Immunological analysis of Opisthorchis and Clonorchis antigens. Sirisinha S, et al. **J Helminthol** 1990 Jun; 64(2):133–8

METABOLISM

Evaluation of the mutagenicity and the tumor-promoting activity of parasite extracts: Schistosoma japonicum and Clonorchis sinensis. Ishii A, et al. **Mutat Res** 1989 Oct; 224(2):229–33
[Histochemical changes in Clonorchis sinensis after pyquiton treatment] Pang X, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):32–4 (Eng. Abstr.) **(Chi)**

ULTRASTRUCTURE

[The outer membranes of the eggs of Opisthorchis felineus and Clonorchis sinensis] Salikhova ChR, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):60–2 (Eng. Abstr.) **(Rus)**

CLOPAMIDE

ADMINISTRATION & DOSAGE

[Effect of combined use of pindolol and clopamide on arterial blood pressure and blood and plasma volume in patients with primary arterial hypertension] Wyrzykowski B, et al.

Pol Arch Med Wewn 1987 Jan-Feb;77(1-2):25-30 (Eng. Abstr.) (Pol)
[Effect of combined use of pindolol and clopamide on the renin-angiotensin-aldosterone system, electrolyte metabolism and kidney function in patients with primary arterial hypertension] Wyrzykowski B, et al. Pol Arch Med Wewn 1987 Jan-Feb;77(1-2):31-9 (Eng. Abstr.) (Pol)

THERAPEUTIC USE

Combination of a thiazide, a vasodilator and reserpine compared with methyldopa plus hydrochlorothiazide in the treatment of hypertension in Zimbabwe. Stein CM, et al. S Afr Med J 1990 Mar 3;77(5):243-5

CLOPENTHIXOL see under THIOXANTHENES

CLOPIDOL see under PYRIDINES

CLOPROSTENOL see under PROSTAGLANDINS F, SYNTHETIC

CLORANFENICOL see CHLORAMPHENICOL

CLORAZEPATE DIPOTASSIUM see under BENZODIAZEPINE TRANQUILIZERS

CLORGYLINE see under PROPYLAMINES

CLORPROPAMID see CHLORPROPAMIDE

CLOSED COHORT STUDIES see COHORT STUDIES

CLOSING VOLUME see under LUNG VOLUME MEASUREMENTS

CLOSTRIDIAL NEUROTOXIN see TETANUS TOXIN

CLOSTRIDIOPEPTIDASE A

Disulphide bond assignment in human tissue inhibitor of metalloproteinases (TIMP). Williamson RA, et al. Biochem J 1990 Jun 1;268(2):267-74
Crystallization and preliminary X-ray analysis of porcine synovial collagenase. Lloyd LF, et al. J Mol Biol 1989 Nov 5;210(1):237-8
Collagenase-induced intracerebral hemorrhage in rats. Rosenberg GA, et al. Stroke 1990 May;21(5):801-7
A simple but effective method for the controlled collagenase digestion of the human pancreas. London NJ, et al. Transplant Proc 1990 Apr;22(2):791-2
[Preparation of a suspension of isolated hepatocytes using the Soviet drug collalitin] Toshchakov VIu, et al. Vopr Med Khim 1989 Jul-Aug;35(4):134-7 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Degenerative knee joint lesions in mice after a single intra-articular collagenase injection. A new model of osteoarthritis. van der Kraan PM, et al. J Exp Pathol (Oxford) 1990 Feb;71(1):19-31
Intraductal injection of collagenase solution at the time of harvesting: a possible solution for preservation and collagenase digestion. Ohzato H, et al. Transplant Proc 1990 Apr;22(2):782-3

ANALYSIS

Distribution of collagenase and cell types in sterile ulceration of human corneal grafts. Wagoner MD, et al. Acta Ophthalmol Suppl (Copenh) 1989;192:65-71
Immunolocalization of collagenase and tissue inhibitor of metalloproteinases (TIMP) in mechanically deformed fibrous joints. Green DD, et al. Am J Orthod Dentofacial Orthop 1990 Apr;97(4):281-8
Endotoxin and lysosomal protease activity in acute and chronic otitis media with effusion. Sakakura K, et al. Ann Otol Rhinol Laryngol 1990 May;99(5 Pt 1):379-85
Development and assessment of an immunoassay for mammalian collagenase. Moloney D, et al. Biochem Soc Trans 1990 Apr;18(2):322-3
Partial amino acid sequence of human PMN leukocyte procollagenase. Knäuper V, et al. Biol Chem Hoppe Seyler 1990 May;371 Suppl:295-304
Retinoic acid inhibition of human melanoma cell invasion through a reconstituted basement membrane and its relation to decreases in the expression of proteolytic enzymes and motility factor receptor. Hendrix MJ, et al. Cancer Res 1990 Jul 1;50(13):4121-30
Direct extraction and assay of collagenase from human osteoarthritic articular cartilage. Blanckaert A, et al. Clin Chim Acta 1989 Oct 31;185(1):73-9
Characterization of trypsin-activatable latent collagenases and their inhibitors in rheumatoid arthritis synovial fluid. Tagawa M, et al. Clin Chim Acta 1989 Dec 29; 186(1):119-24
Immunolocalization of collagenase in neoplastic epithelial cells. Whitelock JM, et al. Immunol Cell Biol 1989 Dec; 67 (Pt 6):349-57
Development of a novel substrate capture immunoassay for the detection of a neutral metalloproteinase capable of degrading basement membrane (type IV) collagen. Wacher MP, et al. J Immunol Methods 1990 Feb 9;126(2):239-45
Collagenase-like activity associated to the leukemic WEHI-3B cell line. Fernández M, et al. Leuk Res 1990; 14(7):661-6

ANTAGONISTS & INHIBITORS

Immunolocalization of collagenase and tissue inhibitor of metalloproteinases (TIMP) in mechanically deformed fibrous joints. Green DD, et al. Am J Orthod Dentofacial Orthop 1990 Apr;97(4):281-8
Separation and partial characterization of three forms of collagenase inhibitor from bovine gingiva. Adachi Y, et al. Arch Oral Biol 1989;34(6):431-6
Increased erythroid potentiating activity/tissue inhibitor of metalloproteinases and jun/fos transcription factor complex characterize tumor promoter-induced megakaryoblastic differentiation of K562 leukemia cells. Alitalo R, et al. Blood 1990 May 15;75(10):1974-82
Vertebrate collagenase inhibitor. I. Tripeptidyl hydroxamic acids. Odake S, et al. Chem Pharm Bull (Tokyo) 1990 Apr; 38(4):1007-11
Lung collagenase inhibitors and spontaneous and latent collagenase activity in idiopathic pulmonary fibrosis and hypersensitivity pneumonitis. Montaño M, et al. Chest 1989 Nov;96(5):1115-9
Inhibition of Clostridium histolyticum collagenases by phosphonamide peptide inhibitors. Dive V, et al. Eur J Biochem 1990 Aug 17;191(3):685-93
Inhibition of alkali-induced corneal ulceration and perforation by a thiol peptide. Burns FR, et al. Invest Ophthalmol Vis Sci 1990 Jan;31(1):107-14
Thiol-based inhibitors of mammalian collagenase. Substituted amide and peptide derivatives of the leucine analogue, 2-[(R,S)-mercaptomethyl]-4-methylpentanoic acid. Darlak K, et al. J Biol Chem 1990 Mar 25;265(9):5199-205
Phosphoramidate peptide inhibitors of human skin fibroblast collagenase. Kortylewicz ZP, et al. J Med Chem 1990 Jan; 33(1):263-73
Inhibition of collagenolytic activity and metastasis of tumor cells by a recombinant human tissue inhibitor of metalloproteinases. Alvarez OA, et al. J Natl Cancer Inst 1990 Apr 4;82(7):589-95
Human mesangial cells secrete a GBM-degrading neutral proteinase and a specific inhibitor. Martin J, et al. Kidney Int 1989 Nov;36(5):790-801
Association of collagenase and tissue inhibitor of metalloproteinases (TIMP) with hypertrophic cell enlargement in the growth plate. Dean DD, et al. Matrix 1989 Nov;9(5):366-75

BIOSYNTHESIS

Modulation of IL-1-induced collagenase production in articular chondrocytes by pertussis toxin. Crawford A, et al. Agents Actions 1989 Jun;27(3-4):242-4
Cycloheximide inhibits the induction of collagenase mRNA in chondrocytes exposed to synovial factors or recombinant interleukin-1. Lin CW, et al. Agents Actions 1989 Jun; 27(3-4):445-7
The effect of the anabolic steroid, stanozolol, on the production of procollagenase by human synovial and skin fibroblasts in vitro. Wright JK, et al. Agents Actions 1989 Nov;28(3-4):279-82
Osteopetrotic (grey-lethal) bone produces collagenase and TIMP in organ culture: regulation by vitamin A. Heath JK, et al. Biochem Biophys Res Commun 1990 May 16; 168(3):1171-6
Induction and stimulation of 92-kDa gelatinase/type IV collagenase production in osteosarcoma and fibrosarcoma cell lines by tumor necrosis factor alpha. Okada Y, et al. Biochem Biophys Res Commun 1990 Sep 14;171(2):610-7
Coordinate increase in collagenase mRNA and enzyme levels in human fibroblasts treated with the tumor cell factor, TCSF. Prescott J, et al. Biochem Int 1989 Aug;19(2):257-66
Inverse correlation between tyrosine phosphorylation and collagenase production in chondrocytes. Cruz TF, et al. Biochem J 1990 Aug 1;269(3):717-21
Fetal bovine serum inhibits chondrocyte collagenase production: interleukin 1 reverses this effect. Kandel RA, et al. Biochim Biophys Acta 1990 Jul 12;1053(2-3):130-4
Modulation by interleukin 1 and tumor necrosis factor alpha of production of collagenase, tissue inhibitor of metalloproteinases and collagen types in differentiated and dedifferentiated articular chondrocytes. Lefebvre V, et al. Biochim Biophys Acta 1990 May 22;1052(3):366-78
Production of collagens, collagenase and collagenase inhibitor during the dedifferentiation of articular chondrocytes by serial subcultures. Lefebvre V, et al. Biochim Biophys Acta 1990 Mar 9;1051(3):266-75
Expression of metalloproteinases and metalloproteinase inhibitors by fetal astrocytes and glioma cells. Apodaca G, et al. Cancer Res 1990 Apr 15;50(8):2322-9
Cytoskeletal dynamics in rabbit synovial fibroblasts: II. Reformation of stress fibers in cells rounded by treatment with collagenase-inducing agents. Aggeler J. Cell Motil Cytoskeleton 1990;16(2):121-32
Hypertrophic chondrocytes produce immunoreactive collagenase in vivo [published erratum appears in Connect Tissue Res 1989;23(2-3):following 218] Blair HC, et al. Connect Tissue Res 1989;23(1):65-73
Synthesis of latent collagenase and collagenase inhibitor by bovine aortic medial explants and cultured medial smooth muscle cells. Kishi J, et al. Connect Tissue Res 1989; 19(1):63-76
Collagenase production by early and late passage cultures of human fibroblasts. Millis AJ, et al. Exp Gerontol 1989; 24(5-6):559-75
Collagenase production by guinea pig megakaryocytes in vitro. Leven RM, et al. Exp Hematol 1990 Aug;18(7):743-7
An interleukin 1 inhibitor affects both cell-associated interleukin 1-induced T cell proliferation and PGE2/collagenase production by human dermal fibroblasts and synovial cells. Seckinger P, et al. Immunobiology 1990 Jun;180(4-5):316-27
Short-term keloid treatment in vivo with human interferon alfa-2b results in a selective and persistent normalization of keloidal fibroblast collagen, glycosaminoglycan, and collagenase production in vitro. Berman B, et al. J Am Acad Dermatol 1989 Oct;21(4 Pt 1):694-702
Relaxin modulates synthesis and secretion of procollagenase and collagen by human dermal fibroblasts. Unemori EN, et al. J Biol Chem 1990 Jun 25;265(18):10681-5
Localization of collagenase mRNA in rheumatoid arthritis synovium by in situ hybridization histochemistry. McCachren SS, et al. J Clin Immunol 1990 Jan;10(1):19-27
Inhibition of phospholipase activity in human monocytes by IFN-gamma blocks endogenous prostaglandin E2-dependent collagenase production. Wahl LM, et al. J Immunol 1990 May 1;144(9):3518-22
Retinoic acid inhibits the production of collagenase by human epidermal keratinocytes. Bailly C, et al. J Invest Dermatol 1990 Jan;94(1):47-51
Enhanced synthesis of collagenase by human keratinocytes cultured on type I or type IV collagen. Petersen MJ, et al. J Invest Dermatol 1990 Mar;94(3):341-6
UV-induced DNA damage is an intermediate step in UV-induced expression of human immunodeficiency virus type 1, collagenase, c-fos, and metallothionein. Stein B, et al. Mol Cell Biol 1989 Nov;9(11):5169-81
Identification of an amino acid sequence from the laminin A chain that stimulates metastasis and collagenase IV production. Kanemoto T, et al. Proc Natl Acad Sci U S A 1990 Mar;87(6):2279-83

BLOOD

Tissue kallikrein effectively activates latent matrix degrading metalloenzymes. Tschesche H, et al. Adv Exp Med Biol 1989;247A:545-8
Ligand-dependent release of active neutrophil collagenase. Chatham WW, et al. Arthritis Rheum 1990 Feb; 33(2):228-34
Elevation of serum type IV collagen-degrading enzyme in hepatocellular carcinoma with metastasis. Kimura Y, et al. Clin Biochem 1990 Apr;23(2):135-8
Characterization and activation of procollagenase from human polymorphonuclear leucocytes. N-terminal sequence determination of the proenzyme and various proteolytically activated forms. Knäuper V, et al. Eur J Biochem 1990 Apr 30;189(2):295-300
Inactivation of human plasma alpha 1-proteinase inhibitor by human PMN leucocyte collagenase. Knäuper V, et al. FEBS Lett 1990 Apr 24;263(2):355-7
Human gelatinase/type IV procollagenase is a regular plasma component. Vartio T, et al. FEBS Lett 1989 Sep 25; 255(2):285-9
Non-proteolytic activation of latent human neutrophil collagenase and its role in matrix destruction in periodontal diseases. Sorsa T, et al. Int J Tissue React 1989;11(4):153-9
[Clinical significance of collagenase analysis in biochemical laboratory tests] Yamada S, et al. Nippon Rinsho 1989 Dec; 48 Suppl:288-90 (Jpn)

GENETICS

Regulation of collagenase gene expression in synovial fibroblasts. Brinckerhoff CE, et al. Ann N Y Acad Sci 1990; 580:355-74
Secreted proteases. Regulation of their activity and their possible role in metastasis. Goldberg GI, et al. Ann N Y Acad Sci 1990;580:375-84
Cloning and characterization of human tumor cell interstitial collagenase. Templeton NS, et al. Cancer Res 1990 Sep 1;50(17):5431-7
Antitumor promotion and antiinflammation: down-modulation of AP-1 (Fos/Jun) activity by glucocorticoid hormone. Jonat C, et al. Cell 1990 Sep 21; 62(6):1189-204
A novel function of the transforming domain of E1a: repression of AP-1 activity. Offringa R, et al. Cell 1990 Aug 10;62(3):527-38
Transcriptional interference between c-Jun and the glucocorticoid receptor: mutual inhibition of DNA binding due to direct protein-protein interaction. Yang-Yen HF, et al. Cell 1990 Sep 21;62(6):1205-15
The collagenase gene promoter contains a TPA and oncogene-responsive unit encompassing the PEA3 and AP-1 binding sites. Gutman A, et al. EMBO J 1990 Jul; 9(7):2241-6
Early expression of a collagenase-like hatching enzyme gene in the sea urchin embryo. Lepage T, et al. EMBO J 1990 Sep;9(9):3003-12
Human neutrophil collagenase. A distinct gene product with homology to other matrix metalloproteinases. Hasty KA, et al. J Biol Chem 1990 Jul 15;265(20):11421-4

Structure of the human type IV collagenase gene. Huhtala P, et al. **J Biol Chem** 1990 Jul 5;265(19):11077–82
Interleukin-1 regulation of procollagenase mRNA and protein in periodontal fibroblasts in vitro. Richards D, et al. **J Periodont Res** 1990 Jul;25(4):222–9
Increases in levels of procollagenase mRNA in human fibroblasts induced by interleukin-1, tumor necrosis factor-alpha, or serum follow c-jun expression and are dependent on new protein synthesis. Conca W, et al. **Trans Assoc Am Physicians** 1989;102:195–203

IMMUNOLOGY

Effect of ivermectin treatment on anti-hypodermin C titers of Asturiana cattle naturally infected with Hypoderma lineatum. Prieto M, et al. **Vet Parasitol** 1990 Mar; 35(3):211–8

ISOLATION & PURIFICATION

Characteristics of collagenase in experimental periapical granulomas from the teeth of dogs. Asai K, et al. **Arch Oral Biol** 1989;34(11):923–8
The isolation and properties of collagenolytic proteases from crab hepatopancreas. Klimova OA, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1411–20
Fragments of human fibroblast collagenase. Purification and characterization. Clark IM, et al. **Biochem J** 1989 Oct 1; 263(1):201–6
Extraction of type-IV collagenase/gelatinase from plasma membranes of human cancer cells. Zucker S, et al. **Int J Cancer** 1990 Jun 15;45(6):1137–42
Human mesangial cells secrete a GBM-degrading neutral proteinase and a specific inhibitor. Martin J, et al. **Kidney Int** 1989 Nov;36(5):790–801
Characteristics of neutral proteases present in inflamed human gingiva. Suomalainen K, et al. **Scand J Dent Res** 1989 Aug;97(4):346–54

METABOLISM

Action of elastase, collagenase and other enzymes upon linkages between stereocilia in the guinea-pig cochlea. Osborne MP, et al. **Acta Otolaryngol (Stockh)** 1990 Jul–Aug;110(1–2):37–45
Hypochlorous acid (HOCl) activation of neutrophil collagenase requires cathepsin G. Capodici C, et al. **Agents Actions** 1989 Jun;27(3–4):481–4
Increased immunostaining of collagenase and TIMP in eruptive xanthoma. Childers JW, et al. **Am J Med Sci** 1989 Sep;298(3):172–6
Changes in active and latent collagenase in human placenta around the time of parturition. Rajabi MR, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):499–505
Immunohistochemical distribution of type IV collagenase in normal, benign, and malignant breast tissue. Monteagudo C, et al. **Am J Pathol** 1990 Mar;136(3):585–92
Pulmonary disease progress in sarcoid patients with and without bronchoalveolar lavage collagenase. Ward K, et al. **Am Rev Respir Dis** 1990 Sep;142(3):636–41
Mechanisms of matrix degradation in rheumatoid arthritis. Krane SM, et al. **Ann N Y Acad Sci** 1990;580:340–54 (80 ref.)
Effects of interferon gamma on cultured synovial cells from patients with rheumatoid arthritis: inhibition of cell growth, prostaglandin E2, and collagenase release. Nakajima H, et al. **Ann Rheum Dis** 1990 Jul;49(7):512–6
The effect of pH, temperature, and D2O on the activity of porcine synovial collagenase and gelatinase. Stack MS, et al. **Arch Biochem Biophys** 1990 Sep;281(2):257–63
Regulation of human synovial fibroblast collagenase messenger RNA by interleukin-1. McCachren SS, et al. **Arthritis Rheum** 1989 Dec;32(12):1539–45
Characterization of proteolytic and collagenolytic enzymes from the larvae of Lucilia cuprina, the sheep blowfly. Bowles VM, et al. **Aust J Biol Sci** 1988;41(2):269–78
Identification of a new metalloproteinase inhibitor that forms tight-binding complexes with collagenase. Cawston TE, et al. **Biochem J** 1990 Jul 1;269(1):183–7
Proteolytic activities of human fibroblast collagenase: hydrolysis of a broad range of substrates at a single active site. Fields GB, et al. **Biochemistry** 1990 Jul 17; 29(28):6670–7
Basement membrane collagen-degrading activity from a malignant tumor is inhibited by anthracycline antibiotics. Karakiulakis G, et al. **Biochim Biophys Acta** 1990 Aug 17; 1035(2):218–22
Collagenase activation of latent matrix-degrading proteinases from human plasma fibronectin. Imhoff JM, et al. **Biol Chem Hoppe Seyler** 1990 Feb;371(2):137–44
The role of matrix metalloproteinase 3 in the stepwise activation of human rheumatoid synovial procollagenase. Suzuki K, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:305–10
Influence of hydrazinophthalazines on the activity of collagenase in murine fibroblast culture. Węglarz L, et al. **Biomed Biochim Acta** 1990;49(4):289–91
Procollagenase associated with the noncalcified matrix of bone and its regulation by parathyroid hormone. Jilka RL. **Bone** 1989;10(5):353–8
Matrix metalloproteinases. A review. Emonard H, et al. **Cell Mol Biol** 1990;36(2):131–53 (161 ref.)
Lung collagenase inhibitors and spontaneous and latent collagenase activity in idiopathic pulmonary fibrosis and hypersensitivity pneumonitis. Montaño M, et al. **Chest** 1989 Nov;96(5):1115–9
Transforming growth factor-beta regulation of collagenase, 72 kDa-progelatinase, TIMP and PAI-1 expression in rat bone cell populations and human fibroblasts. Overall CM, et al. **Connect Tissue Res** 1989;20(1–4):289–94
Replicative senescence of human skin fibroblasts correlates with a loss of regulation and overexpression of collagenase activity. West MD, et al. **Exp Cell Res** 1989 Sep; 184(1):138–47
Collagenase activity in the normal rat myocardium. An immunohistochemical method. Chakraborty A, et al. **Histochemistry** 1989;92(5):391–6
Modulation of type-IV collagenase activity and invasive behavior of metastatic human melanoma (A2058) cells in vitro by monoclonal antibodies to type-IV collagenase. Höyhtyä M, et al. **Int J Cancer** 1990 Aug 15;46(2):282–6
Type IV and interstitial collagenolytic activities in normal and malignant trophoblast cells are specifically regulated by the extracellular matrix. Emonard H, et al. **Invasion Metastasis** 1990;10(3):170–7
Processing of precursor interleukin 1 beta and inflammatory disease. Hazuda DJ, et al. **J Biol Chem** 1990 Apr 15; 265(11):6318–22
Differential susceptibility of type X collagen to cleavage by two mammalian interstitial collagenases and 72-kDa type IV collagenase. Welgus HG, et al. **J Biol Chem** 1990 Aug 15;265(23):13521–7
Regulation of collagenase production by steroids in uterine smooth muscle cells: an enzymatic and immunologic study. Jeffrey JJ, et al. **J Cell Physiol** 1990 May;143(2):396–403
Synovial procollagenase activation by human mast cell tryptase dependence upon matrix metalloproteinase 3 activation. Gruber BL, et al. **J Clin Invest** 1989 Nov; 84(5):1657–62
Salivary collagenase. Origin, characteristics and relationship to periodontal health. Uitto VJ, et al. **J Periodont Res** 1990 May;25(3):135–42
Secretion and glycosylation of rabbit macrophage type V collagenase. Mainardi CL, et al. **Matrix** 1990 May; 10(2):84–90
The effect of phenytoin on collagenase and gelatinase activities in UMR 106-01 rat osteoblastic osteosarcoma cells. Vernillo AT, et al. **Matrix** 1990 Mar;10(1):27–32
Human 72-kilodalton type IV collagenase forms a complex with a tissue inhibitor of metalloproteases designated TIMP-2. Goldberg GI, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8207–11
Multiple modes of activation of latent human fibroblast collagenase: evidence for the role of a Cys73 active-site zinc complex in latency and a "cysteine switch" mechanism for activation. Springman EB, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):364–8
Generation of collagenase-resistant collagen by site-directed mutagenesis of murine pro alpha 1(I) collagen gene. Wu H, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5888–92
Prolylhydroxylase and collagenase activities in the healing of acetic acid-induced gastric ulcers in rats and the effects of cimetidine and elcatonin. Okazaki I, et al. **Scand J Gastroenterol Suppl** 1989;162:138–41
Connective tissue breakdown in ovulation. Woessner JF Jr, et al. **Steroids** 1989 Nov;54(5):491–9
A simple method for the release of islets by controlled collagenase digestion of the human pancreas. London NJ, et al. **Transplantation** 1990 Jun;49(6):1109–13
[Activation in vivo of the collagenase of Clostridium histolyticum by erythromycin lactobionate] Warter A, et al. **C R Soc Biol (Paris)** 1989;183(2):153–6 (Eng. Abstr.) (Fre)
[Effects of non-steroidal anti-inflammatory drugs on the enzymatic degradation of osteoarthritic cartilage] Vignon E, et al. **Rev Rhum Mal Osteoartic** 1990 Apr 10;57(3 (Pt 2)):255–9 (Eng. Abstr.) (Fre)
[Epidermolysis bullosa and collagenoses] Cozzani E, et al. **G Ital Dermatol Venereol** 1989 Sep;124(9):397–402 (40 ref.) (Ita)
[New direct assay method of type IV collagenase in tissue homogenate and biochemical role of collagenase against type I, and IV collagens to the invasion of the stomach and lung cancer] Kubochi K. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):174–83 (Eng. Abstr.) (Jpn)
[Effect of RU486 on collagenolytic enzyme activities in immature rat ovary] Shibata S. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Feb;42(2):136–42 (Eng. Abstr.) (Jpn)
[The collagenolytic and general proteolytic activity in synovial fluid cells in rheumatoid arthritis] Solov'eva NI, et al. **Revmatologiia (Mosk)** 1990 Jan–Mar;(1):46–50 (Eng. Abstr.) (Rus)

PHARMACOLOGY

Influences of trypsin and collagenase on acetylcholine responses of physically isolated single neurons of Aplysia californica. Oyama Y, et al. **Cell Mol Neurobiol** 1990 Jun; 10(2):193–205
Scanning electron-microscope observations of the perikaryal projections of rabbit spinal ganglion neurons after enzymatic removal of connective tissue and satellite cells. Pannese E, et al. **Cell Tissue Res** 1990 Apr;260(1):167–73
Enzymatic collagen degradation in the pregnant guinea pig cervix during physiological maturation of the cervix and after local application of prostaglandins. Rath W, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep;32(3):199–204
In vitro secretion of hormones from the islets of pancreas with acinar atrophy—influence of digestion with collagenase. Bodziony J, et al. **Exp Clin Endocrinol** 1989; 94(3):338–44
A 17-kd polypeptide, sensitive to bacterial collagenase, is synthesized by bone marrow macrophages. Ruland LJ 3d, et al. **Exp Hematol** 1990 Oct;18(9):969–73
Action of a bacterial Achromobacter collagenase on the soft carious dentine: an in vitro study with the scanning electron microscope. Goldberg M, et al. **J Biol Buccale** 1989 Dec; 17(4):269–74
Acetylcholinesterase in cocultures of rat myotubes and spinal cord neurons: effects of collagenase and cis-hydroxyproline on molecular forms, intra- and extracellular distribution, and formation of patches at neuromuscular contacts. Vallette FM, et al. **J Neurochem** 1990 Mar;54(3):915–23
Wound collagenase activity correlates directly with collagen glycosylation in diabetic rats. Hennessey PJ, et al. **J Pediatr Surg** 1990 Jan;25(1):75–8
[Methods of isolating hematopoiesis islets from the bone marrow] Gol'dberg ED, et al. **Gematol Transfuziol** 1990 Mar;35(3):20–2 (Eng. Abstr.) (Rus)
[Resistance of heart valve bioprosthesis to the proteolytic effect of collagenase and elastase] Krasovskaia SM, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):31–6 (Eng. Abstr.) (Rus)

PHYSIOLOGY

The role of neutrophils in tissue localized cell-mediated immunologic responses: I. The intensity of contact-type and delayed-type hypersensitivity responses may be influenced by the extent of extracellular matrix degradation by neutrophil proteases. Lee DG, et al. **Reg Immunol** 1988 Nov–Dec;1(3):149–62
[Experimental studies of the inhibition of collagenase activity in the cornea] Toczołowski J. **Klin Oczna** 1988 Dec; 90(12):405–6 (Eng. Abstr.) (Pol)

SECRETION

Synthesis and secretion of plasminogen activators and collagenases in human cells transformed by Kirsten murine sarcoma virus and N-methyl-N'-nitro-N-nitrosoguanidine. Sidhu MK, et al. **Cancer Lett** 1989 Sep 15;47(1–2):45–51
Independent expression and cellular processing of Mr 72,000 type IV collagenase and interstitial collagenase in human tumorigenic cell lines. Brown PD, et al. **Cancer Res** 1990 Oct 1;50(19):6184–91
SV40-transformed human lung fibroblasts secrete a 92-kDa type IV collagenase which is identical to that secreted by normal human macrophages. Wilhelm SM, et al. **J Biol Chem** 1989 Oct 15;264(29):17213–21
Collagenase secretion accompanying changes in cell shape occurs only in the presence of a biologically active cytokine. Kuter I, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):473–85

THERAPEUTIC USE

[Collalysine treatment of intraocular hemorrhages] Cherkasov IS, et al. **Oftalmol Zh** 1989;(5):289–90 (Eng. Abstr.) (Rus)
[The treatment of scleroderma with the enzyme preparation collalysine] Dovzhanskiĭ SI, et al. **Vestn Dermatol Venerol** 1990;(3):58–60 (Eng. Abstr.) (Rus)

CLOSTRIDIUM

Haemagglutination and surface structures in strains of Clostridium spiroforme. Baldassarri L, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):1–4
Activation of phospholipase A2 in rabbit erythrocyte membranes by a novel hemolytic toxin (H-toxin) of Clostridium septicum. Takano S, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):319–22
Enterotoxins from Clostridium difficile; diarrhoegenic potency and morphological effects in the rat intestine. Torres J, et al. **Gut** 1990 Jul;31(7):781–5

ANALYSIS

Production, purification and characterization of Clostridium difficile toxic proteins different from toxin A and from toxin B. Torres JF, et al. **Biochim Biophys Acta** 1989 Oct 5; 998(2):151–7
Characterization of the recombinant Clostridium pasteurianum ferredoxin and comparison of its properties with those of the native protein. Baur JR, et al. **Biofactors** 1990 Jul;2(3):197–203
Chemical characterization of the regularly arranged surface layer glycoprotein of Clostridium thermosaccharolyticum D120-70. Altman E, et al. **Eur J Biochem** 1990 Feb 22; 188(1):73–82
Purification and amino acid sequence of two small, acid-soluble proteins from Clostridium bifermentans spores. Cabrera-Martinez RM, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1–2):139–43
Fast purification of Clostridium sordellii cytotoxin. Baldacini O, et al. **J Chromatogr** 1990 Jun 29;528(2):357–69
Enzyme immunoassay (ELISA) for detection of Clostridium

difficile toxin B in specimens of faeces. Nguyen VK, et al. **J Med Microbiol** 1990 Apr;31(4):251–7

CLASSIFICATION

Observations on phage–typing of Clostridium difficile: preliminary evaluation of a phage panel. Dei R. **Eur J Epidemiol** 1989 Sep;5(3):351–4

Nosocomial Clostridium difficile colonisation and disease. Johnson S, et al. **Lancet** 1990 Jul 14;336(8707):97–100

Epidemiologic markers of Clostridium difficile. Tabaqchali S. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S192–9 (43 ref.)

CYTOLOGY

Bioelectrical conversion in sensors with living cells. Vais H, et al. **Physiologie** 1989 Oct–Dec;26(4):349–53 (11 ref.)

DRUG EFFECTS

Effect of N,N'–bis(alkyldimethyl)–alpha, omega–alkanediammonium dibromides on bacteria of the genus Clostridium. Cigánková V, et al. **Folia Microbiol (Praha)** 1989;34(3):202–8

Antibiotic exposure delays intestinal colonization by Clostridium difficile in the newborn. Holton AF, et al. **J Antimicrob Chemother** 1989 Nov;24(5):811–7

[Sensitivity of the main causative agents of gas gangrene to currently available antibacterial drugs] Sergeeva TI, et al. **Antibiot Khimioter** 1990 Apr;35(4):49–51 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Methods for cloning key primary metabolic enzymes and ancillary proteins associated with the acetone–butanol fermentation of Clostridium acetobutylicum. Cary JW, et al. **Ann N Y Acad Sci** 1990;589:67–81

Purification and characterization of a new beta–lactamase from Clostridium butyricum. Kesado T, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1302–7

Regulation and localization of amylolytic enzymes in Clostridium acetobutylicum ATCC 824. Annous BA, et al. **Appl Environ Microbiol** 1990 Aug;56(8):2559–61

Purification and properties of an endo–1,4–beta–glucanase translated from a Clostridium josui gene in Escherichia coli. Fujino T, et al. **Appl Environ Microbiol** 1990 Apr; 56(4):1175–8

Purification and properties of an acetoacetyl coenzyme A–reacting phosphotransbutyrylase from Clostridium beijerinckii ("Clostridium butylicum") NRRL B593. Thompson DK, et al. **Appl Environ Microbiol** 1990 Mar; 56(3):607–13

Substrate competition and specificity at the active site of amylopullulanase from Clostridium thermohydrosulfuricum. Mathupala S, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):126–32

Xylan degradation by the thermophile Clostridium stercorarium: cloning and expression of xylanase, beta–D–xylosidase, and alpha–L–arabinofuranosidase genes in Escherichia coli. Schwarz WH, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):368–74

Calcium–binding affinity and calcium–enhanced activity of Clostridium thermocellum endoglucanase D. Chauvaux S, et al. **Biochem J** 1990 Jan 1;265(1):261–5

E.p.r.–spectroscopic studies on the molybdenum–iron site of nitrogenase from Clostridium pasteurianum. George GN, et al. **Biochem J** 1989 Aug 15;262(1):349–52

Mechanism of reductive activation of cobalamin–dependent methionine synthase: an electron paramagnetic resonance spectroelectrochemical study. Banerjee RV, et al. **Biochemistry** 1990 Feb 6;29(5):1129–35

Spectroelectrochemical studies of the corrinoid/iron–sulfur protein involved in acetyl coenzyme A synthesis by Clostridium thermoaceticum. Harder SR, et al. **Biochemistry** 1989 Nov 14;28(23):9080–7

Primary structure of the thermostable formyltetrahydrofolate synthetase from Clostridium thermoaceticum. Lovell CR, et al. **Biochemistry** 1990 Jun 19;29(24):5687–94

Chemical modification of the functional arginine residues of carbon monoxide dehydrogenase from Clostridium thermoaceticum. Shanmugasundaram T, et al. **Biochemistry** 1989 Aug 22;28(17):7112–6

Stabilization, purification, and characterization of glutamate synthase from Clostridium pasteurianum. Singhal RK, et al. **Biochemistry** 1989 Sep 19;28(19):7928–35

Phosphatidyltransferase of Clostridium butyricum: specificity for diacylphosphoglycerides. Morii H, et al. **Biochim Biophys Acta** 1990 Jun 14;1044(3):394–8

Phosphorylation of citrate lyase ligase in Clostridium sphenoides and regulation of anaerobic citrate metabolism in other bacteria. Antranikian G, et al. **Biochimie** 1989 Sep–Oct;71(9–10):1029–37 (39 ref.)

Purification and properties of an endo–1,4–xylanase excreted by a hydrolytic thermophilic anaerobe, Clostridium thermolacticum. A proposal for its action mechanism on larchwood 4–O–methylglucuronoxylan. Debeire P, et al. **Eur J Biochem** 1990 Feb 14;187(3):573–80

Inhibition of Clostridium histolyticum collagenases by phosphonamide peptide inhibitors. Dive V, et al. **Eur J Biochem** 1990 Aug 17;191(3):685–93

Characterization of a methyl–specific restriction system in Clostridium acetobutylicum strain N1–4081. Azeddoug H, et al. **FEMS Microbiol Lett** 1989 Dec;53(3):323–6

Production of novel pullulanases at high concentrations by two newly isolated thermophilic clostridia. Klingeberg M, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):145–52

Cellulase system of a free–living, mesophilic clostridium (strain C7). Cavedon K, et al. **J Bacteriol** 1990 Aug; 172(8):4222–30

Characterization of the extracellular cellulase from a mesophilic clostridium (strain C7). Cavedon K, et al. **J Bacteriol** 1990 Aug;172(8):4231–7

Purification and comparative studies of dihydrolipoamide dehydrogenases from the anaerobic, glycine–utilizing bacteria Peptostreptococcus glycinophilus, Clostridium cylindrosporum, and Clostridium sporogenes. Dietrichs D, et al. **J Bacteriol** 1990 Jan;172(1):243–51

CO dehydrogenase from Clostridium thermoaceticum. EPR and electrochemical studies in CO2 and argon atmospheres. Lindahl PA, et al. **J Biol Chem** 1990 Mar 5;265(7):3873–9

Mössbauer study of CO dehydrogenase from Clostridium thermoaceticum. Lindahl PA, et al. **J Biol Chem** 1990 Mar 5;265(7):3880–8

Controlled potential enzymology of methyl transfer reactions involved in acetyl–CoA synthesis by CO dehydrogenase and the corrinoid/iron–sulfur protein from Clostridium thermoaceticum [published erratum appears in J Biol Chem 1990 Sep 5;265(25):15347] Lu WP, et al. **J Biol Chem** 1990 Feb 25;265(6):3124–33

Magnetic circular dichroism and electron paramagnetic resonance studies of hydrogenases I and II from Clostridium pasteurianum. Zambrano IC, et al. **J Biol Chem** 1989 Dec 15;264(35):20974–83

Cloning and expression of the Clostridium thermohydrosulfuricum alpha–amylase–pullulanase gene in Escherichia coli. Melasniemi H, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1755–62

Restriction endonucleases in Clostridium pasteurianum ATCC 6013 and C. thermohydrosulfuricum DSM 568. Richards DF, et al. **J Gen Microbiol** 1988 Dec;134 (Pt 12):3151–7

Hydrolytic enzyme production by Clostridium difficile and its relationship to toxin production and virulence in the hamster model. Seddon SV, et al. **J Med Microbiol** 1990 Mar;31(3):169–74

Clostridial ADP–ribosyltransferases—modification of low molecular weight GTP–binding proteins and of actin by clostridial toxins. Aktories K. **Med Microbiol Immunol (Berl)** 1990;179(3):123–36 (100 ref.)

Essential 170–kDa subunit for degradation of crystalline cellulose by Clostridium cellulovorans cellulase. Shoseyov O, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2192–5

Clostridial glycine reductase: protein C, the acetyl group acceptor, catalyzes the arsenate–dependent decomposition of acetyl phosphate. Stadtman TC. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7853–6

[Activation in vivo of the collagenase of Clostridium histolyticum by erythromycin lactobionate] Warter A, et al. **C R Soc Biol (Paris)** 1989;183(2):153–6 (Eng. Abstr.) **(Fre)**

[Isolation and characteristics of thermostable pullulanase from Clostridium thermohydrosulfuricum produced by Escherichia coli cells] Glushchenko EV, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):744–51 (Eng. Abstr.) **(Rus)**

[Cloning and expression of the gene for thermostable pullulanase from Clostridium thermohydrosulfuricum in Escherichia coli] Kozlov DG, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):736–43 (Eng. Abstr.) **(Rus)**

GENETICS

Hybridization analysis of three chloramphenicol resistance determinants from Clostridium perfringens and Clostridium difficile. Rood JI, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1569–74

Cloning and expression of Clostridium acetobutylicum ATCC 824 acetoacetyl–coenzyme A:acetate/butyrate:coenzyme A–transferase in Escherichia coli. Cary JW, et al. **Appl Environ Microbiol** 1990 Jun; 56(6):1576–83

Isolation of a single–stranded plasmid from Clostridium acetobutylicum NCIB 6444. Kim AY, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1725–8

Cloning of an endo–1,4–beta–D–glucanase gene from Clostridium josui and its expression in Escherichia coli. Ohmiya K, et al. **Appl Environ Microbiol** 1989 Sep; 55(9):2399–402

Identification of three distinct Clostridium thermocellum xylanase genes by molecular cloning. MacKenzie CR, et al. **Arch Microbiol** 1989;152(4):377–81

Cloning of Clostridium thermocellum endoglucanase genes in Escherichia coli [published erratum appears in Biochem Biophys Res Commun 1990 May 16;168(3):1326–7] Bumazkin BK, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1057–64

Cloning of Clostridium cellulovorans endo–1,4–beta–glucanase genes. Shoseyov O, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):667–72

Cloning and expression of Clostridium thermocellum genes coding for thermostable exoglucanases (cellobiohydrolases) in Escherichia coli cells. Tuka K, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1055–60

A nitrogen–fixation gene (nifC) in Clostridium pasteurianum with sequence similarity to chlJ of Escherichia coli. Wang SZ, et al. **Biochem Biophys Res Commun** 1990 Jun 29; 169(3):1122–8

Cloning and expression of the thermostable alpha–amylase gene from Clostridium thermosulfurogenes (DSM 3896) in Escherichia coli. Haeckel K, et al. **FEMS Microbiol Lett** 1989 Aug;51(3):333–7

Nucleotide sequence of Clostridium difficile toxin A gene fragment and detection of toxigenic strains by polymerase chain reaction. Wren BW, et al. **FEMS Microbiol Lett** 1990 Jun 15;58(1):1–6

Recent advances in the genetics of the clostridia. Young M, et al. **FEMS Microbiol Rev** 1989 Dec;5(4):301–25 (196 ref.)

Sequence analysis of the Clostridium cellulolyticum endoglucanase–A–encoding gene, celCCA. Faure E, et al. **Gene** 1989 Dec 7;84(1):39–46

Nucleotide sequence and deletion analysis of the cellulase–encoding gene celH of Clostridium thermocellum. Yagüe E, et al. **Gene** 1990 Apr 30;89(1):61–7

Homology between hydroxybutyryl and hydroxyacyl coenzyme A dehydrogenase enzymes from Clostridium acetobutylicum fermentation and vertebrate fatty acid beta–oxidation pathways. Youngleson JS, et al. **J Bacteriol** 1989 Dec;171(12):6800–7

Nucleotide sequence of the alpha–amylase–pullulanase gene from Clostridium thermohydrosulfuricum. Melasniemi H, et al. **J Gen Microbiol** 1990 Mar;136 (Pt 3):447–54

Cloning, sequencing and expression of a sialidase gene from Clostridium sordellii G12. Rothe B, et al. **J Gen Microbiol** 1989 Nov;135 (Pt 11):3087–96

Conjugative plasmid transfer from Escherichia coli to Clostridium acetobutylicum. Williams DR, et al. **J Gen Microbiol** 1990 May;136 (Pt 5):819–26

Beneficial effects of "jumping PCR" in diagnostic procedures [letter; comment] Wren BW, et al. **Lancet** 1990 Jun 23; 335(8704):1540 Comment on: Lancet 1990 May 19;335(8699):1220.

Host: vector systems for gene cloning in Clostridium. Minton NP, et al. **Microbiol Sci** 1988 Oct;5(10):310–5 (51 ref.)

Nucleotide sequence of Clostridium difficile toxin B gene. Barroso LA, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):4004

Nucleotide sequence of Clostridium difficile toxin A. Sauerborn M, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1629–30

Nucleotide sequence of a Clostridium acetobutylicum P262 xylanase gene (xynB). Zappe H, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2179

Transfer of Tn1545 and Tn916 to Clostridium acetobutylicum. Woolley RC, et al. **Plasmid** 1989 Sep; 22(2):169–74

GROWTH & DEVELOPMENT

The ecology of the human intestine and its consequences for overgrowth by pathogens such as Clostridium difficile. van der Waaij D. **Annu Rev Microbiol** 1989;43:69–87 (108 ref.)

The acetone–butanol–ethanol fermentation: recent progress in technology. Maddox IS. **Biotechnol Genet Eng Rev** 1989; 7:189–220 (125 ref.)

Spoilage of an acid food product by Clostridium perfringens, C. barati and C. butyricum. de Jong J. **Int J Food Microbiol** 1989 May;8(2):121–32

Iron complexation as a tool to direct mixed clostridia–lactobacilli fermentations. Bruyneel B, et al. **J Appl Bacteriol** 1990 Jul;69(1):80–5

Characterization of the H2– and CO–dependent chemolithotrophic potentials of the acetogens Clostridium thermoaceticum and Acetogenium kivui. Daniel SL, et al. **J Bacteriol** 1990 Aug;172(8):4464–71

Enumeration and confirmation of Clostridium tyrobutyricum in silages using neutral red, D–cycloserine, and lactate dehydrogenase activity. Jonsson A. **J Dairy Sci** 1990 Mar; 73(3):719–25

Prevention of Clostridium difficile–induced experimental pseudomembranous colitis by Saccharomyces boulardii: a scanning electron microscopic and microbiological study. Castex F, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1085–9

IMMUNOLOGY

Application of microbiological cancer test to cattle infected with bovine leucosis virus. Wittmann W, et al. **Arch Exp Veterinarmed** 1990;44(2):205–12

The development of an enzyme–linked immunosorbent assay for measuring the potency of vaccines containing Clostridium chauvoei antigens. Crichton R, et al. **Biologicals** 1990 Jan;18(1):49–54

Identification and molecular cloning of a 70 kDa species–specific antigen common to Clostridium difficile. Wren BW, et al. **FEMS Microbiol Immunol** 1988 Dec; 1(3):163–8

Immunoblot analysis of serum immunoglobulin G response to surface proteins of Clostridium difficile in patients with antibiotic–associated diarrhea. Pantosti A, et al. **J Clin Microbiol** 1989 Nov;27(11):2594–7

Demonstration of a surface antigen of Clostridium tyrobutyricum by use of immunoblotting with a monoclonal antibody. Gueguen F, et al. **Microbiol Immunol** 1990;34(1):55–64

Detection of specific antigens for ten serogroups of Clostridium difficile. Delmée M, et al. **Mol Cell Probes** 1990 Feb;4(1):1–10

Enzyme–linked immunosorbent assay for evaluation of

immunity in mice vaccinated with blackleg vaccine. Hamaoka T, et al. **Nippon Juigaku Zasshi** 1990 Feb; 52(1):167–70

ISOLATION & PURIFICATION

Fecal carriage of cytotoxigenic strains of Clostridium difficile by adult Nigerians. Rotimi VO, et al. **East Afr Med J** 1989 May;66(5):319–23

Clostridium aldrichii sp. nov., a cellulolytic mesophile inhabiting a wood-fermenting anaerobic digester. Yang JC, et al. **Int J Syst Bacteriol** 1990 Jul;40(3):268–72

Detection of asymptomatic Clostridium difficile carriage by an alcohol shock procedure. Clabots CR, et al. **J Clin Microbiol** 1989 Oct;27(10):2386–7

Identification of Clostridium difficile in stool specimens by culture-enhanced gas–liquid chromatography. Johnson LL, et al. **J Clin Microbiol** 1989 Oct;27(10):2218–21

Presumptive identification of Clostridium difficile by detection of p-cresol in prepared peptone yeast glucose broth supplemented with p-hydroxyphenylacetic acid. Sivsammye G, et al. **J Clin Microbiol** 1990 Aug; 28(8):1851–3

Identification of toxigenic Clostridium difficile strains by using a toxin A gene-specific probe. Wren BW, et al. **J Clin Microbiol** 1990 Aug;28(8):1808–12

Pleuropulmonary infection due to Clostridium subterminale. Gubler JG, et al. **J Infect** 1989 Nov;19(3):277–80

Rapid identification of toxigenic Clostridium difficile by polymerase chain reaction [letter] Wren B, et al. **Lancet** 1990 Feb 17;335(8686):423

Spontaneous, nontraumatic gangrene due to Clostridium septicum. Stevens DL, et al. **Rev Infect Dis** 1990 Mar–Apr; 12(2):286–96

[A rapid test for detecting Clostridium difficile] Karsch W, et al. **Z Gesamte Hyg** 1989 Oct;35(10):606–7 (Eng. Abstr.) (Ger)

[The occurrence of Clostridium difficile in fecal samples of dogs and cats] Weber A, et al. **Zentralbl Veterinarmed [B]** 1989 Oct;36(8):568–76 (Eng. Abstr.) (Ger)

[The distribution of clostridia in soil samples from Bursa] Senyüz O, et al. **Mikrobiyol Bul** 1989 Jan;23(1):51–7 (Eng. Abstr.) (Tur)

METABOLISM

Protein phosphorylation in response to stress in Clostridium acetobutylicum. Balodimos IA, et al. **Appl Environ Microbiol** 1990 Jul;56(7):2170–3

Effects of propionate and acetate additions on solvent production in batch cultures of Clostridium acetobutylicum. Hüsemann MH, et al. **Appl Environ Microbiol** 1990 May;56(5):1497–500

Degradation of barley straw, ryegrass, and alfalfa cell walls by Clostridium longisporum and Ruminococcus albus. Varel VH, et al. **Appl Environ Microbiol** 1989 Dec; 55(12):3080–4

Electrostatic effects on the spectral and redox properties of Clostridium pasteurianum flavodoxin: effects of salt concentration and polylysine. Cheddar G, et al. **Arch Biochem Biophys** 1990 Apr;278(1):265–8

Pyruvate fermentation by Clostridium acetobutylicum. Janati-Idrissi R, et al. **Biochem Cell Biol** 1989 Oct; 67(10):735–9

Phosphatidylglycerol acetal of plasmenylethanolamine as an intermediate in ether lipid formation in Clostridium butyricum. MacDonald DL, et al. **Biochem Cell Biol** 1990 Jan;68(1):225–30

13C-NMR of Clostridium pasteurianum ferredoxin after reductive methylation of the amines using [13C]formaldehyde. Gluck M, et al. **Biochim Biophys Acta** 1990 Apr 19;1038(2):146–51

Toxigenic clostridia. Hatheway CL. **Clin Microbiol Rev** 1990 Jan;3(1):66–98 (355 ref.)

Amino acid transport in membrane vesicles of Clostridium thermoautotrophicum. Hugenholtz J, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):117–21

Biotransformations of aromatic aldehydes by acetogenic bacteria. Lux MF, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1–2):73–7

Reduction of 2-, 4- and 5-nitroimidazole drugs by hydrogenase 1 in Clostridium pasteurianum. Church DL, et al. **J Antimicrob Chemother** 1990 Jan;25(1):15–23

Structure and function of a menaquinone involved in electron transport in membranes of Clostridium thermoautotrophicum and Clostridium thermoaceticum. Das A, et al. **J Bacteriol** 1989 Nov;171(11):5823–9

Purification of NADPH-dependent electron-transferring flavoproteins and N-terminal protein sequence data of dihydrolipoamide dehydrogenases from anaerobic, glycine-utilizing bacteria. Dietrichs D, et al. **J Bacteriol** 1990 Apr;172(4):2088–95

Biotransformations of carboxylated aromatic compounds by the acetogen Clostridium thermoaceticum: generation of growth-supportive CO2 equivalents under CO2-limited conditions. Hsu T, et al. **J Bacteriol** 1990 Jan;172(1):212–7

Redox properties of several bacterial ferredoxins using square wave voltammetry. Smith ET, et al. **J Biol Chem** 1990 Aug 25;265(24):14371–6

Comparison of the chitinolytic properties of Clostridium sp. strain 9.1 and a chitin-degrading bacterium from the intestinal tract of the plaice, Pleuronectes platessa (L.). Pel R, et al. **J Gen Microbiol** 1990 Apr;136 (Pt 4):695–704

[The refining of liquid swine manure as a substrate for biotechnologic transformation processes] Marx R, et al. **Zentralbl Mikrobiol** 1990;145(4):269–75 (Eng. Abstr.) (Ger)

PATHOGENICITY

Macrophage-dependent stimulation of T cell-depleted spleen cells by Clostridium difficile toxin A and calcium ionophore. Miller PD, et al. **Cell Immunol** 1990 Mar; 126(1):155–63

Polymicrobial septicaemia and Clostridium difficile [letter] Levett PN. **Eur J Clin Microbiol Infect Dis** 1989 Sep; 8(9):801–2

Molecular studies on the epidemiology and pathogenicity of Clostridium difficile. Tabaqchali S. **Gut** 1989 Nov;30 Spec No:44–51

Interrelationships between digestive proteolytic activities and production and quantitation of toxins in pseudomembranous colitis induced by Clostridium difficile in gnotobiotic mice. Corthier G, et al. **Infect Immun** 1989 Dec;57(12):3922–7

Molecular characterization of the Clostridium difficile toxin A gene. Dove CH, et al. **Infect Immun** 1990 Feb;58(2):480–8

Interaction of Clostridium difficile toxin A with cultured cells: cytoskeletal changes and nuclear polarization. Fiorentini C, et al. **Infect Immun** 1990 Jul;58(7):2329–36

Effect of Clostridium difficile enterotoxin A on ultrastructure of Chinese hamster ovary cells. Kushnaryov VM, et al. **Infect Immun** 1989 Dec;57(12):3914–21

Virulence factors of Clostridium difficile. Borriello SP, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S185–91 (47 ref.)

[Epidemiological study of the pathogenicity of Clostridium difficile using a new serogrouping method] Delmée M. **Acta Gastroenterol Belg** 1988 Nov–Dec;51(6):450–8 (Eng. Abstr.) (Fre)

[Clostridium bifermentans serovar malaysia, a new anaerobic bacterium pathogen to mosquito and blackfly larvae] de Barjac H, et al. **C R Acad Sci [III]** 1990;310(9):383–7 (Eng. Abstr.) (Fre)

PHYSIOLOGY

The influence of the normal flora on Clostridium difficile colonisation of the gut. Borriello SP. **Ann Med** 1990 Feb; 22(1):61–7 (47 ref.)

Clostridium difficile: clinical considerations. Bartlett JG. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S243–51 (41 ref.)

[Inhibition of enteropathogens by Clostridium butyricum MIYAIRI 588] Kuroiwa T, et al. **Kansenshogaku Zasshi** 1990 Mar;64(3):257–63 (Eng. Abstr.) (Jpn)

[Spore-forming bacteria in carp and rainbow trout, raised in waste waters from a steam power plant] Kotliar AN, et al. **Mikrobiol Zh** 1984 Mar–Apr;46(2):6–10 (Eng. Abstr.) (Rus)

ULTRASTRUCTURE

Characterization of the surface layer glycoprotein of Clostridium symbiosum HB25. Messner P, et al. **J Bacteriol** 1990 May;172(5):2576–83

CLOSTRIDIUM BOTULINUM

see related
BOTULINUM TOXINS

C. botulinum neurotoxin types A and E: isolated light chain breaks down into two fragments. Comparison of their amino acid sequences with tetanus neurotoxin. DasGupta BR, et al. **Biochimie** 1989 Nov–Dec;71(11–12):1193–200

ANALYSIS

Immunochemical identification of the ADP-ribosyltransferase in botulinum C1 neurotoxin as C3 exoenzyme-like molecule. Morii N, et al. **J Biochem (Tokyo)** 1990 May;107(5):769–75

DRUG EFFECTS

Influence of transition metals added during sporulation on heat resistance of Clostridium botulinum 113B spores. Kihm DJ, et al. **Appl Environ Microbiol** 1990 Mar; 56(3):681–5

Sodium lactate delays toxin production by Clostridium botulinum in cook-in-bag turkey products. Maas MR, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2226–9

ENZYMOLOGY

Botulinum ADP-ribosyltransferase activity as affected by detergents and phospholipids. Machama T, et al. **FEBS Lett** 1990 Apr 24;263(2):376–80

Purification and characterization of a protease from Clostridium botulinum type A that nicks single-chain type A botulinum neurotoxin into the di-chain form. Dekleva ML, et al. **J Bacteriol** 1990 May;172(5):2498–503

GENETICS

The complete amino acid sequence of the Clostridium botulinum type A neurotoxin, deduced by nucleotide sequence analysis of the encoding gene. Thompson DE, et al. **Eur J Biochem** 1990 Apr 20;189(1):73–81

Cloning and complete nucleotide sequence of the gene for the main component of hemagglutinin produced by Clostridium botulinum type C. Tsuzuki K, et al. **Infect Immun** 1990 Oct;58(10):3173–7

Nucleotide sequence of Clostridium botulinum C1 neurotoxin. Hauser D, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4924

DNA sequence of exoenzyme C3, an ADP-ribosyltransferase encoded by Clostridium botulinum C and D phages. Popoff M, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1291

GROWTH & DEVELOPMENT

Growth and toxigenesis of C. botulinum type E in fishes packaged under modified atmospheres. Baker DA, et al. **Int J Food Microbiol** 1990 May;10(3–4):269–89

Outgrowth of naturally occurring Clostridium botulinum in vacuum-packaged fresh fish. Lilly T Jr, et al. **J Assoc Off Anal Chem** 1990 Mar–Apr;73(2):211–2

[Growing Clostridium on nutritional media with polyacrylamide gel] Bil'ko IP. **Mikrobiol Zh** 1986 Jul–Aug; 48(4):88–91 (Eng. Abstr.) (Rus)

IMMUNOLOGY

[The effect of bacterial antigens on lymphocyte immune receptors in mice] Burlakov GV. **Biull Eksp Biol Med** 1989 Dec;108(12):707–10 (Eng. Abstr.) (Rus)

ISOLATION & PURIFICATION

Clostridium botulinum in the soil of Kenya. Yamakawa K, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):201–3

Clostridium botulinum in the soil of Paraguay. Yamakawa K, et al. **Jpn J Med Sci Biol** 1990 Feb;43(1):19–21

First case of type A botulism in zebu (Bos indicus). Schocken-Iturrino RP, et al. **Vet Rec** 1990 Mar 3; 126(9):217–8

[Type D and A Clostridium botulinum in necropsy samples from bovines with "mal de Aguapey"] Fernández RA, et al. **Rev Argent Microbiol** 1989 Apr–Jun;21(2):47–53 (Eng. Abstr.) (Spa)

METABOLISM

Botulinum type F neurotoxin. Large-scale purification and characterization of its binding to rat cerebrocortical synaptosomes. Wadsworth JD, et al. **Biochem J** 1990 May 15;268(1):123–8

PATHOGENICITY

Botulism [published erratum appears in J Infect 1990 May;20(3):273] Dunbar EM. **J Infect** 1990 Jan;20(1):1–3 (8 ref.)

PHYSIOLOGY

Clostridium botulinum toxins. Hauschild AH. **Int J Food Microbiol** 1990 Mar;10(2):113–24 (99 ref.)

CLOSTRIDIUM BOTULINUM TOXINS see BOTULINUM TOXINS

CLOSTRIDIUM ENTEROCOLITIS see ENTEROCOLITIS, PSEUDOMEMBRANOUS

CLOSTRIDIUM INFECTIONS

Abdominal pain, total intravascular hemolysis, and death in a 53-year-old woman [clinical conference] **Am J Med** 1990 Jun;88(6):667–74 (15 ref.)

Maternal deaths associated with Clostridium sordellii infection. McGregor JA, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):987–95

BLOOD

[Polyagglutinability in erythrocytes] Urlep-Salinović V, et al. **Lijec Vjesn** 1989 Dec;111(12):452–3 (Eng. Abstr.) (Scr)

CHEMICALLY INDUCED

Postantibiotic colonization with Clostridium difficile in nursing home patients. Thomas DR, et al. **J Am Geriatr Soc** 1990 Apr;38(4):415–20

Clostridium difficile-associated diarrhea after norfloxacin. Ehrenpreis ED, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):188–9

Clindamycin and dentists [letter] Williams M. **Lancet** 1990 Mar 31;335(8692):787

COMPLICATIONS

Clostridial infection of a locally recurrent renal cell carcinoma with sepsis. Bogucki MS, et al. **Cancer** 1990 Aug 1;66(3):601–3

Occult gastrointestinal carcinoma [letter; comment] Lorente JA, et al. **Dis Colon Rectum** 1990 Jul;33(7):631–2 Comment on: Dis Colon Rectum 1988 Apr;31(4):306–10.

Primary infection of ascitic fluid with Clostridium difficile. de Leeuw P, et al. **J Infect** 1990 Jul;21(1):77–80

Clostridial pleuropulmonary infections: case report and review of the literature. Patel SB, et al. **J Infect** 1990 Jul; 21(1):81–5 (29 ref.)

Fatal hypoglycemia associated with Clostridium perfringens

bacteremia [letter; comment] Gradon JD, et al. **J Infect Dis** 1990 May;161(5):1038 Comment on: J Infect Dis 1989 Dec;160(6):1071–5.

An outbreak of Clostridium difficile associated diarrhoea in urological practice: a potential consequence of excessive antibiotic prophylaxis? Hastie KJ, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):146–8

Clostridium difficile carriage after infection [letter] Issack MI, et al. **Lancet** 1990 Mar 10;335(8689):610–1

Clostridium perfringens septicemia with massive hemolysis. Tsai IK, et al. **Scand J Infect Dis** 1989;21(4):467–71 (18 ref.)

Cl. difficile as possible cause of reactive arthritis [letter] Eastmond CJ. **Scand J Rheumatol** 1989;18(6):443

Necrotising pneumonia and empyema due to Clostridium perfringens complicating pulmonary embolus. Bashir Y, et al. **Thorax** 1990 Jan;45(1):72–3

[Sepsis caused by Clostridium in patients with neoplasms (letter)] Morales Murillo S, et al. **Rev Clin Esp** 1989 Oct; 185(5):270 **(Spa)**

DIAGNOSIS

Clostridium difficile in elderly patients [letter; comment] Bennett RG, et al. **Age Ageing** 1989 Sep;18(5):354–5 Comment on: Age Ageing 1988 Sep;17(5):333–6.

Rapid diagnosis of Clostridium difficile–associated diarrhoea using a latex agglutination test. Jung K, et al. **APMIS** 1990 Jul;98(7):652–4

Cytotoxin–negative Clostridium difficile [letter; comment] Beaman MH, et al. **Aust N Z J Med** 1990 Feb;20(1):99–100 Comment on: Aust N Z J Med 1989 Feb;19(1):31–6.

Detection of asymptomatic Clostridium difficile carriage by an alcohol shock procedure. Clabots CR, et al. **J Clin Microbiol** 1989 Oct;27(10):2386–7

Identification of Clostridium difficile in stool specimens by culture–enhanced gas–liquid chromatography. Johnson LL, et al. **J Clin Microbiol** 1989 Oct;27(10):2218–21

Comparison of a dot immunobinding assay, latex agglutination, and cytotoxin assay for laboratory diagnosis of Clostridium difficile–associated diarrhea. Woods GL, et al. **J Clin Microbiol** 1990 May;28(5):855–7

Infected solitary iliac artery aneurysm [letter] Asplund MW, et al. **J Vasc Surg** 1990 Aug;12(2):219–20

False–positive Clostridium difficile latex agglutination tests [letter] Huovinen P, et al. **Lancet** 1990 Jun 16; 335(8703):1467–8

Rapid identification of toxigenic Clostridium difficile by polymerase chain reaction [letter] Wren B, et al. **Lancet** 1990 Feb 17;335(8686):423

EPIDEMIOLOGY

Incidence of Clostridium difficile in hospitalized children. A prospective study. Tvede M, et al. **Acta Paediatr Scand** 1990 Mar;79(3):292–9

Two outbreaks of Clostridium perfringens food poisoning–Ontario. **Can Dis Wkly Rep** 1990 Mar 3; 16(9):40–1 **(Eng, Fre)**

A cluster of seven cases of Clostridium tertium septicemia in neutropenic patients. Valtonen M, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):40–2

C difficile diarrhea: a common—and overlooked—nursing home infection. Bennett RG, et al. **Geriatrics** 1990 Sep; 45(9):77–8, 83–7

Molecular studies on the epidemiology and pathogenicity of Clostridium difficile. Tabaqchali S. **Gut** 1989 Nov;30 Spec No:44–51

Risk factors for Clostridium difficile carriage and C. difficile–associated diarrhea in a cohort of hospitalized patients. McFarland LV, et al. **J Infect Dis** 1990 Sep; 162(3):678–84

Epidemiologic markers of Clostridium difficile. Tabaqchali S. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S192–9 (43 ref.)

[Hospital epidemic of Clostridium difficile diarrhea: demonstration of cross–infection using a typing technic] Cerquetti M, et al. **Ann Ist Super Sanita** 1989;25(2):327–32 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Clostridium difficile diarrhea and colonization after treatment with abdominal infection regimens containing clindamycin or metronidazole. Gerding DN, et al. **Am J Surg** 1990 Feb; 159(2):212–7

Quantitative study of antibiotic–induced susceptibility to Clostridium difficile enterococcitis in hamsters. Larson HE, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1348–53

Crisis in our hospital kitchens: ancillary staffing levels during an outbreak of food poisoning in a long stay hospital [see comments] Pollock AM, et al. **BMJ** 1990 Feb 10; 300(6721):383–5 Comment in: BMJ 1990 Mar 3;300(6724):612.

Risk factors for Clostridium difficile toxin–associated diarrhea. Brown E, et al. **Infect Control Hosp Epidemiol** 1990 Jun;11(6):283–90

Clostridium difficile infection in orthopaedic patients. Clarke HJ, et al. **J Bone Joint Surg [Am]** 1990 Aug;72(7):1056–9

Klebsiella pneumoniae gastroenteritis masked by Clostridium perfringens. Rennie RP, et al. **J Clin Microbiol** 1990 Feb; 28(2):216–9

Aminoglycosides and C. difficile colitis [letter] Chiou CY, et al. **N Engl J Med** 1990 Feb 1;322(5):338

Medical implications of nosocomial infection with Clostridium difficile. Eriksson S, et al. **Scand J Infect Dis** 1989;21(6):733–4

Clostridial sepsis and malignant disease. Tanabe KK, et al. **Surg Gynecol Obstet** 1989 Nov;169(5):423–8

IMMUNOLOGY

Immunoblot analysis of serum immunoglobulin G response to surface proteins of Clostridium difficile in patients with antibiotic–associated diarrhea. Pantosti A, et al. **J Clin Microbiol** 1989 Nov;27(11):2594–7

Translocation of Clostridium perfringens after administration of OKT3 [letter] Bonventre EV, et al. **Transplantation** 1990 Feb;49(2):481

MICROBIOLOGY

Toxigenic clostridia. Hatheway CL. **Clin Microbiol Rev** 1990 Jan;3(1):66–98 (355 ref.)

Feacal carriage of cytotoxigenic strains of Clostridium difficile by adult Nigerians. Rotimi VO, et al. **East Afr Med J** 1989 May;66(5):319–23

Polymicrobial septicaemia and Clostridium difficile [letter] Levett PN. **Eur J Clin Microbiol Infect Dis** 1989 Sep; 8(9):801–2

Clostridium perfringens toxins involved in food poisoning. Granum PE. **Int J Food Microbiol** 1990 Mar;10(2):101–11 (48 ref.)

Analysis of plasmid profiling as a method for rapid differentiation of food–associated Clostridium perfringens strains. Jones MK, et al. **J Appl Bacteriol** 1989 Sep; 67(3):243–54

Pleuropulmonary infection due to Clostridium subterminale. Gubler JG, et al. **J Infect** 1989 Nov;19(3):277–80

Polyarticular Clostridium perfringens pyoarthritis. Lluberas–Acosta G, et al. **J Rheumatol** 1989 Nov; 16(11):1509–12

Clostridium difficile: clinical considerations. Bartlett JG. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S243–51 (41 ref.)

PREVENTION & CONTROL

Anti–idiotypic antibody–induced protection against Clostridium perfringens type D. Percival DA, et al. **Infect Immun** 1990 Aug;58(8):2487–92

THERAPY

Bacteriotherapy for Clostridium difficile diarrhoea [letter] Tvede M, et al. **Lancet** 1990 Jan 13;335(8681):110

Bacteriotherapy for clostridium difficile colitis [letter; comment] Wilson KH. **Lancet** 1989 Nov 4;2(8671):1096 Comment on: Lancet 1989 May 27;1(8648):1156–60.

TRANSMISSION

Clostridium difficile infection in health–care workers [letter; comment] Delmée M. **Lancet** 1989 Nov 4;2(8671):1095 Comment on: Lancet 1989 Oct 7;2(8667):866–7.

Nosocomial Clostridium difficile colonisation and disease. Johnson S, et al. **Lancet** 1990 Jul 14;336(8707):97–100

Clostridium difficile infection in health–care workers [letter] [see comments] Strimling MO, et al. **Lancet** 1989 Oct 7; 2(8667):866–7 Comment in: Lancet 1989 Nov 4;2(8671):1095.

VETERINARY

Haemoglobinuria due to Clostridium perfringens type A mastitis in a ewe. McDonnell AM, et al. **Br Vet J** 1990 Jul–Aug;146(4):380–1

Fibrosing cholehepatitis in broiler chickens induced by bile duct ligations or inoculation of Clostridium perfringens. Onderka DK, et al. **Can J Vet Res** 1990 Apr;54(2):285–90

The effect of passive immunization on active immunity against Clostridium perfringens type D in lambs. Odendaal MW, et al. **Onderstepoort J Vet Res** 1989 Dec;56(4):251–5

Changes in clinical values of cattle infected with Clostridium chauvoei CH3 strain and a local Kad1 strain. Haematological values. el Sawi Mohamed O, et al. **Rev Elev Med Vet Pays Trop** 1989;42(2):169–72

Chinchilla deaths due to Clostridium perfringens A enterotoxin [letter] Bartoszce M, et al. **Vet Rec** 1990 Apr 7;126(14):341–2

Suspected botulism in cattle associated with poultry litter. Hogg RA, et al. **Vet Rec** 1990 May 12;126(19):476–9

Welfare implications of 'organic' lambs [letter] Sterne M. **Vet Rec** 1990 Jan 13;126(2):46

Testing strains of Clostridium perfringens type A isolated from diarrhoeic piglets for the presence of the enterotoxin gene. van Damme–Jongsten M, et al. **Vet Rec** 1990 Feb 24;126(8):191–2

Leukotoxic activity of Clostridium perfringens of equine origin. Kanoe M, et al. **Zentralbl Veterinarmed [B]** 1990 Jun;37(4):257–60

[Bacteriological studies of the problem "Epidemic losses in hares and deer in habitats with high cultivation of 00–rapeseed"] Böhnel H, et al. **Berl Munch Tierarztl Wochenschr** 1990 May 1; 103(5):167–72 (Eng. Abstr.) **(Ger)**

[The seasonal toxigenicity of different cultured plants for clostridia in relation to so–called wildlife mortality] Böhnel H, et al. **Berl Munch Tierarztl Wochenschr** 1989 Sep 1; 102(9):310–7 (Eng. Abstr.) **(Ger)**

[The occurrence of Clostridium difficile in fecal samples of dogs and cats] Weber A, et al. **Zentralbl Veterinarmed [B]** 1989 Oct;36(8):568–76 (Eng. Abstr.) **(Ger)**

CLOSTRIDIUM PERFRINGENS

Clostridium perfringens toxins involved in food poisoning. Granum PE. **Int J Food Microbiol** 1990 Mar;10(2):101–11 (48 ref.)

DOT–enzyme linked immunosorbent assay for detection of Clostridium perfringens type A enterotoxin. Mehta R, et al. **Int J Food Microbiol** 1989 Aug;9(1):45–50

Chinchilla deaths due to Clostridium perfringens A enterotoxin [letter] Bartoszce M, et al. **Vet Rec** 1990 Apr 7;126(14):341–2

ANALYSIS

Vero cell assay for rapid detection of Clostridium perfringens enterotoxin. Mahony DE, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2141–3

Rubredoxin from Clostridium perfringens: complete amino acid sequence and participation in nitrate reduction. Seki Y, et al. **J Biochem (Tokyo)** 1989 Aug;106(2):336–41

Coat and enterotoxin–related proteins in Clostridium perfringens spores. Ryu S, et al. **J Gen Microbiol** 1989 Nov; 135 (Pt 11):3109–18

CLASSIFICATION

Analysis of plasmid profiling as a method for rapid differentiation of food–associated Clostridium perfringens strains. Jones MK, et al. **J Appl Bacteriol** 1989 Sep; 67(3):243–54

DRUG EFFECTS

Comparative in vitro bactericidal activity of 24 antimicrobial drugs against Clostridium perfringens. Traub WH. **Chemotherapy** 1990;36(2):127–35

Effect of N,N'–bis(alkyldimethyl)–alpha, omega–alkanediammonium dibromides on bacteria of the genus Clostridium. Cigánková V, et al. **Folia Microbiol (Praha)** 1989;34(3):202–8

In vitro activity of chloropolysporin–C, a new glycopeptide–group antibiotic, on Clostridium perfringens isolates and its in vivo activity against C perfringens and other intestinal microflora of the caeca of broiler chickens. Kondo F, et al. **Res Vet Sci** 1990 Mar;48(2):175–9

ENZYMOLOGY

The role of histidine residues in the alpha toxin of Clostridium perfringens. Titball RW, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):261–5

Photoaffinity labeling of a bacterial sialidase with an aryl azide derivative of sialic acid. van der Horst GT, et al. **J Biol Chem** 1990 Jul 5;265(19):10801–4

Endo–beta–galactosidase releasing Gal(alpha 1——3)Gal. Muramatsu T. **Methods Enzymol** 1989;179:496–500

Purification and characterization of neuraminidase from Clostridium perfringens. Chien CH, et al. **Proc Natl Sci Counc Repub China [B]** 1989 Jul;13(3):201–9

Phospholipase C from Clostridium perfringens stimulates phospholipase A2–mediated arachidonic acid release in cultured intestinal epithelial cells (INT 407). Gustafson C, et al. **Scand J Gastroenterol** 1990 Apr;25(4):363–71

[Purification of phospholipase C isoenzyme 1 from Clostridium perfringens and its properties] Rakhimov MM, et al. **Biokhimiia** 1989 Aug;54(8):1315–24 (Eng. Abstr.) **(Rus)**

GENETICS

Hybridization analysis of three chloramphenicol resistance determinants from Clostridium perfringens and Clostridium difficile. Rood JI, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1569–74

Lysogenic phages of Clostridium perfringens: mapping of the chromosomal attachment sites. Canard B, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):323–6

Plasmid transformation of Clostridium perfringens by electroporation methods. Phillips–Jones MK. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):221–6

Cloning and sequencing of the genes encoding acid–soluble spore proteins from Clostridium perfringens. Holck A, et al. **Gene** 1990 Jul 2;91(1):107–11

Electroporation–mediated transformation of lysostaphin–treated Clostridium perfringens. Scott PT, et al. **Gene** 1989 Oct 30;82(2):327–33

Molecular cloning of the 3' half of the Clostridium perfringens enterotoxin gene and demonstration that this region encodes receptor–binding activity. Hanna PC, et al. **J Bacteriol** 1989 Dec;171(12):6815–20

Cloning in Escherichia coli of the enterotoxin gene from Clostridium perfringens type A. Iwanejko LA, et al. **J Gen Microbiol** 1989 Apr;135 (Pt 4):903–9

Gene cloning shows the alpha–toxin of Clostridium perfringens to contain both sphingomyelinase and lecithinase activities. Saint–Joanis B, et al. **Mol Gen Genet** 1989 Nov;219(3):453–60

Testing strains of Clostridium perfringens type A isolated from diarrhoeic piglets for the presence of the enterotoxin gene. van Damme–Jongsten M, et al. **Vet Rec** 1990 Feb 24;126(8):191–2

GROWTH & DEVELOPMENT

Detection of lactobacilli and their interaction with clostridia in human gastrointestinal tracts and in vitro. Chung KT, et al.
Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih 1989 Aug;22(3):163–72

Spoilage of an acid food product by Clostridium perfringens, C. barati and C. butyricum. de Jong J.
Int J Food Microbiol 1989 May;8(2):121–32

The influence of selected tannin–containing plant species on the tenacity of pathogenic bacteria in an in–vitro rumen system. 1. Communication: the influence of selected plant species on the tenacity of Cl. perfringens. Schrägle R, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):181–6

[The possibility of the germination of spores of pathogenic clostridia and bacilli in soil] Volkova VP, et al.
Izv Akad Nauk SSSR [Biol] 1989 Sep–Oct;(5):791–5 (Eng. Abstr.) **(Rus)**

[Growing Clostridium on nutritional media with polyacrylamide gel] Bil'ko IP. **Mikrobiol Zh** 1986 Jul–Aug; 48(4):88–91 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Anti–idiotypic antibody–induced protection against Clostridium perfringens type D. Percival DA, et al.
Infect Immun 1990 Aug;58(8):2487–92

ISOLATION & PURIFICATION

Synthetic DNA probes for detection of enterotoxigenic Clostridium perfringens strains isolated from outbreaks of food poisoning. Van Damme–Jongsten M, et al.
J Clin Microbiol 1990 Jan;28(1):131–3

Use of host modified bacteriophages in development of a phage typing scheme for Clostridium perfringens. Yan WK.
Med Lab Sci 1989 Jul;46(3):186–93

[Rapid diagnosis in Clostridium perfringens wound infections] Schau HP. **Z Gesamte Hyg** 1989 Oct; 35(10):608–10 (Eng. Abstr.) **(Ger)**

[Detection of toxins of Clostridium perfringens type A in infected animals by using the ELISA test] Nowakowska M, et al. **Med Dosw Mikrobiol** 1989;41(3–4):166–9 (Eng. Abstr.) **(Pol)**

[The incidence of enterotoxigenic Escherichia coli, rotavirus and Clostridium perfringens from cases of diarrhea in children, in the region of Campinas, SP, Brazil] Gatti MS, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec; 31(6):392–8 (Eng. Abstr.) **(Por)**

[The isolation of the ribosomal fraction of Clostridium perfringens type A and an evaluation of its protective activity] Bakulin IN, et al.
Zh Mikrobiol Epidemiol Immunobiol 1990 Apr;(4):80–3 (Eng. Abstr.) **(Rus)**

METABOLISM

Cloning and hybridization analysis of ermP, a macrolide–lincosamide–streptogramin B resistance determinant from Clostridium perfringens. Berryman DI, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1346–53

Influence of pH, nutrient availability, and growth rate on amine production by Bacteroides fragilis and Clostridium perfringens. Allison C, et al. **Appl Environ Microbiol** 1989 Nov;55(11):2894–8

Proteolysis of Clostridium perfringens type A enterotoxin during purification. Park KB, et al. **Infect Immun** 1990 Jun; 58(6):1999–2001

[Metabolic effects of anaerobic gas infection toxins] Otdel'nova NN, et al. **Vopr Med Khim** 1990 May–Jun; 36(3):83–5 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Leukotoxic activity of Clostridium perfringens of equine origin. Kanoe M, et al. **Zentralbl Veterinarmed [B]** 1990 Jun;37(4):257–60

[Analyses of pathogenic factors in bacteria—bacterial toxins: clostridial toxins, e.g. C. tetani neurotoxins and C. perfringens type A enterotoxin] Matsuda M.
Nippon Saikingaku Zasshi 1989 Jul;44(4):649–67 (148 ref.) **(Jpn)**

PHYSIOLOGY

Experimental models for studying the microbial ecology in the intestinal tract. Raibaud P.
Acta Gastroenterol Latinoam 1989;19(4):219–26

CLOSTRIDIUM TETANI

see related
TETANUS TOXIN

GENETICS

Expression of tetanus toxin subfragments in vitro and characterization of epitopes. Andersen–Beckh B, et al.
Infect Immun 1989 Nov;57(11):3498–505

GROWTH & DEVELOPMENT

[The possibility of the germination of spores of pathogenic clostridia and bacilli in soil] Volkova VP, et al.
Izv Akad Nauk SSSR [Biol] 1989 Sep–Oct;(5):791–5 (Eng. Abstr.) **(Rus)**

[Growing Clostridium on nutritional media with polyacrylamide gel] Bil'ko IP. **Mikrobiol Zh** 1986 Jul–Aug; 48(4):88–91 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Tetanus immunity in emergency department patients. Stair TO, et al. **Am J Emerg Med** 1989 Nov;7(6):563–6

Rapid evaluation of tetanus immunity by a haemagglutination test in the injured at a hospital emergency unit. Beytout J, et al. **Biomed Pharmacother** 1989;43(8):621–5

Response to tetanus toxoid immunization after allogeneic bone marrow transplantation. Ljungman P, et al.
J Infect Dis 1990 Aug;162(2):496–500

[The effect of bacterial antigens on lymphocyte immune receptors in mice] Burlakov GV. **Biull Eksp Biol Med** 1989 Dec;108(12):707–10 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

[Analyses of pathogenic factors in bacteria—bacterial toxins: clostridial toxins, e.g. C. tetani neurotoxins and C. perfringens type A enterotoxin] Matsuda M.
Nippon Saikingaku Zasshi 1989 Jul;44(4):649–67 (148 ref.) **(Jpn)**

PHYSIOLOGY

[The effect of medium composition and pH value on the spore formation of Clostridium tetani] Volkova VP.
Mikrobiol Zh 1986 Jul–Aug;48(4):24–7 (Eng. Abstr.) **(Rus)**

CLOSTRIDIUM TETANI TOXIN see **TETANUS TOXIN**

CLOSTRIDIUM WELCHII see **CLOSTRIDIUM PERFRINGENS**

CLOT RETRACTION

Effect of clot formation and retraction on spin–echo MR images of blood: an in vitro study. Hayman LA, et al.
AJNR 1989 Nov–Dec;10(6):1155–8

Effect of retraction on the lysis of human clots with fibrin specific and non–fibrin specific plasminogen activators. Sabovic M, et al. **Thromb Haemost** 1989 Dec 29; 62(4):1083–7

CLOTHING

Occlusive clothing and ultraviolet radiation in hip surgery. Sanzén L, et al. **Acta Orthop Scand** 1989 Dec;60(6):664–7

Clothing interests, body satisfaction, and eating behavior of adolescent females: related or independent dimensions? Littrell MA, et al. **Adolescence** 1990 Spring;25(97):77–95

Underwear: contamination by human papillomaviruses. Bergeron C, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):25–9

Effect of ceramic–coated clothing on forearm blood flow during exercise in a cool environment. Katsuura T, et al.
Ann Physiol Anthropol 1989 Jan;8(1):53–5

Studies on the thermal insulation effect of the Korean women's folk clothes. Sung S, et al.
Ann Physiol Anthropol 1989 Oct;8(4):233–7

Physiological responses to various kinds of garments in cold, neutral, and warm conditions and their implications for physiological formation of physical characteristics in humans. Tokura H. **Ann Physiol Anthropol** 1988 Jan; 7(1):59–60

The thermal environment in which 3–4 month old infants sleep at home [letter; comment] Bacon CJ.
Arch Dis Child 1989 Oct;64(10):1515–6 Comment on: Arch Dis Child 1989 Apr;64(4):600–4.

A functional electric stimulation system using an electrode garment. Patterson RP, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):340–2

Influence of clothing and body–fat insulation on thermal adjustments to cold–water stress. Toner MM, et al.
Aviat Space Environ Med 1989 Oct;60(10 Pt 1):957–63

The effect of pressure gradient and thermolactyl control gloves in arthritic patients with swollen hands. Oosterveld FG, et al. **Br J Rheumatol** 1990 Jun;29(3):197–200

Methyl parathion residue retained in fabrics for functional clothing resulting from use of cationic fabric softeners in laundering. Laughlin J, et al.
Bull Environ Contam Toxicol 1990 May;44(5):737–43

Use of experimental padded hosiery to reduce abnormal foot pressures in diabetic neuropathy. Veves A, et al.
Diabetes Care 1989 Oct;12(9):653–5

Studies of experimental hosiery in diabetic neuropathic patients with high foot pressures. Veves A, et al.
Diabetic Med 1990 May;7(4):324–6

The temperature dependence of the emission of perchloroethylene from dry cleaned fabrics. Guo ZS, et al. **Environ Res** 1990 Jun;52(1):107–15

Thermal function of a clothing ensemble during work: dependency on inner clothing layer fit. Nielsen R, et al.
Ergonomics 1989 Dec;32(12):1581–94

Solar heat load: heat balance during exercise in clothed subjects. Nielsen B. **Eur J Appl Physiol** 1990;60(6):452–6

Thermoregulatory responses to intermittent exercise are influenced by knit structure of underwear. Nielsen R, et al. **Eur J Appl Physiol** 1990;60(1):15–25

Prediction of the thermoregulatory response for clothed immersion in cold water. Tikuisis P.
Eur J Appl Physiol 1989;59(5):334–41

The effect of clothing on "diving bradycardia" in man during submersion in cold water. Tipton M.
Eur J Appl Physiol 1989;59(5):360–4

Physicians' attitudes about their professional appearance. Gjerdingen DK, et al. **Fam Pract Res J** 1989 Fall–Winter; 9(1):57–64

A newly designed deodorant pad for urinary incontinence. Fukui J, et al. **J Am Geriatr Soc** 1990 Aug;38(8):889–92

Friction blisters and sock fiber composition. A double–blind study. Herring KM, et al. **J Am Podiatr Med Assoc** 1990 Feb;80(2):63–71

Cooking–related burn injuries in the elderly preventing the "granny gown" burn. Turner DG, et al.
J Burn Care Rehabil 1989 Jul–Aug;10(4):356–9

Acute management of the zipper–entrapped penis. Nolan JF, et al. **J Emerg Med** 1990 May–Jun;8(3):305–7

The belt sign in scleroderma [letter] Fam AG, et al.
J Rheumatol 1990 May;17(5):725–6

Some effects of sex–linked clothing and gender schema on the stereotyping of infants. Leone C, et al.
J Soc Psychol 1989 Oct;129(5):609–19

Improvements in heat tolerance induced by interval running training in the heat and in sweat clothing in cool conditions. Dawson B, et al. **J Sports Sci** 1989 Winter;7(3):189–203

Organophosphate poisoning from wearing a laundered uniform previously contaminated with parathion. Clifford NJ, et al. **JAMA** 1989 Dec 1;262(21):3035–6

Factors associated with hypothermia in patients admitted to a group of inner city hospitals [see comments] Woodhouse P, et al. **Lancet** 1989 Nov 18;2(8673):1201–5 Comment in: Lancet 1990 Jan 27;335(8683):232–3.

Hospital vogue. Athy D. **Ohio Med** 1989 Oct;85(10):768–9

New fabrics to offer increased protection from the sun [news]
Oncology (Williston Park) 1990 Mar;4(3):72

Attire, an influence on perceptions of counselors' characteristics. Heitmeyer JR, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1239–44

The actual insulation of multilayer clothing. Lotens WA.
Scand J Work Environ Health 1989;15 Suppl 1:66–75

[Health problems in the garment industry (letter)] Plum P.
Ugeskr Laeger 1990 Jul 30;152(31):2256 **(Dan)**

[Cutting of clothing while bicycling—artistic performance of a communication–disordered deaf patient suffering from fetishism] Lange E.
Psychiatr Neurol Med Psychol (Leipz) 1989 Sep;41(9):550–2 **(Ger)**

[Work posture and changes in the spine of sewing workers in the clothing industry] Tartaglia R, et al. **Med Lav** 1990 Jan–Feb;81(1):39–44 (Eng. Abstr.) **(Ita)**

[Pain in the lumbosacral region in pelvic congestion syndrome in women working under conditions of limited motor activity] Menkiszak J. **Ann Acad Med Stetin** 1989; 35:167–78 (Eng. Abstr.) **(Pol)**

[Hygienic approach to work standardization of high school students in the program of inter–school educational–industrial combine] Dronov IS, et al.
Gig Sanit 1990 Mar;(3):34–6 (Eng. Abstr.) **(Rus)**

[Status of reproductive function and the development and health of children of female workers in the synthetic leather industry] Ivanova NIu, et al. **Gig Tr Prof Zabol** 1989; (7):28–31 (Eng. Abstr.) **(Rus)**

[Tears in the clothing after being run over by an automobile wheel] Vinokurova SE. **Sud Med Ekspert** 1989 Jul–Sep; 32(3):33–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Swaddling and acute respiratory infections. Yurdakok K, et al. **Am J Public Health** 1990 Jul;80(7):873–5

Nipple discharge in children and adolescents: an irritating cause. Casteels–Van Daele M, et al. **Clin Pediatr (Phila)** 1990 Jan;29(1):53

Analysis of the pressure perturbation due to the introduction of a measuring probe under an elastic garment. Vinckx L, et al. **Med Biol Eng Comput** 1990 Mar;28(2):133–8

STANDARDS

Recommended practices. Surgical attire. **AORN J** 1990 Mar; 51(3):828, 830, 832 passim

Proposed recommended practices. Surgical scrubs.
AORN J 1990 Jan;51(1):226–8, 230–4

Assessment of cold environments in terms of required insulation. Holmér I. **Arctic Med Res** 1988;47 Suppl 1:239–42 (17 ref.)

Do gowns prevent infection in neonatal intensive care units? Haque KN, et al. **J Hosp Infect** 1989 Aug;14(2):159–62

An investigation of occlusive polyester surgical clothing. Whyte W, et al. **J Hosp Infect** 1990 May;15(4):363–74

[Physiologic adaptation of the thermal manikin] Bischof W, et al. **Z Gesamte Hyg** 1989 Dec;35(12):723–5 (Eng. Abstr.) **(Ger)**

[Complex hygienic evaluation of the production and use of artificial amide leather] Bo'shakov AM, et al. **Gig Sanit** 1989 Aug;(8):85–7 **(Rus)**

CLOTIAZEPAM see under **AZEPINES**

CLOTRIMAZOLE see under **IMIDAZOLES**

CLOVE see **CONDIMENTS**

CLOVE OIL see **EUGENOL**

CLOXACILLIN

ADMINISTRATION & DOSAGE

[Efficacy of a modified formula dry cow preparation for dairy cattle containing 600 mg cloxacillin] Sol J, et al. **Tijdschr Diergeneeskd** 1990 Jul 15;115(14):670–3 (Eng. Abstr.) **(Dut)**

[Preventive antibiotics in emergency cesarean section. A prospective comparison of benzylpenicillin and ampicillin plus cloxacillin] Fredriksson A, et al. **Tidsskr Nor Laegeforen** 1990 Jan 30;110(3):348–50 (Eng. Abstr.) **(Nor)**

ADVERSE EFFECTS

Cloxacillin–induced cholestasis in a renal allograft patient with chronic hepatitis [letter] Pascual J, et al. **Am J Gastroenterol** 1990 Mar;85(3):335–6

ANALOGS & DERIVATIVES

Topically applied benzathine cloxacillin for treatment of experimentally induced infectious bovine keratoconjunctivitis. Daigneault J, et al. **Am J Vet Res** 1990 Mar;51(3):376–80

Effects of bovine mammary secretion during the early nonlactating period and antibiotics on polymorphonuclear neutrophil function and morphology. Lintner TJ, et al. **Am J Vet Res** 1990 Apr;51(4):524–32

Flucloxacillin induced delayed cholestatic hepatitis. Miros M, et al. **Aust N Z J Med** 1990 Jun;20(3):251–3

Prolonged hepatic cholestasis after flucloxacillin therapy. Turner IB, et al. **Med J Aust** 1989 Dec 4–18; 151(11–12):701–5

A randomised comparison of ceftazidime and piperacillin, both in combination with flucloxacillin for treatment of febrile episodes in neutropenic children. Finnish Three–Centre Study. Perkkiö M, et al. **Scand J Infect Dis** 1990;22(2):209–18

[Therapy of bacterial pharyngo–tonsillitis in children with piperacillin–flucloxacillin combination] Romano A, et al. **Clin Ter** 1990 Jun 15;133(5):323–7 (Eng. Abstr.) **(Ita)**

PHARMACOKINETICS

Ocular and serum disposition kinetics of cloxacillin after topical administration of benzathine cloxacillin and intravenous administration of sodium cloxacillin to calves. Daigneault J, et al. **Am J Vet Res** 1990 Mar;51(3):381–5

Pharmacokinetic analysis of cloxacillin loss in children undergoing major surgery with massive bleeding. Levy M, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1150–3

PHARMACOLOGY

Paradoxical effect of cloxacillin and benzylpenicillin against clinical isolates in Staphylococcus aureus. Odenholt I, et al. **Chemotherapy** 1989;35(5):345–50

THERAPEUTIC USE

Clindamycin and cloxacillin compared in the treatment of skin and soft–tissue infections. Pusponegoro EH, et al. **Clin Ther** 1990 May–Jun;12(3):236–41

Effect of cloxacillin prophylaxis on the bacterial flora of craniotomy wounds. van Ek B, et al. **Scand J Infect Dis** 1990;22(3):345–52

CLOZAPINE see under **DIBENZAZEPINES**

CLUBBED FINGERS see **OSTEOARTHROPATHY, SECONDARY HYPERTROPHIC**

CLUBFOOT

Congenital clubfoot. Etiology, pathoanatomy, pathogenesis, and the changing spectrum of early management. Drvaric DM, et al. **Orthop Clin North Am** 1989 Oct;20(4):641–7 (60 ref.)

COMPLICATIONS

Sinus tarsi syndrome in a patient with talipes equinovarus. Giorgini RJ, et al. **J Am Podiatr Med Assoc** 1990 Apr; 80(4):218–22

DIAGNOSIS

[Diastrophic dysplasia. A congenital syndrome with remarkable changes of the external ear and stridor] Godbersen GS, et al. **HNO** 1990 Jul;38(7):256–8 (Eng. Abstr.) **(Ger)**

[A case of Ehlers–Danlos syndrome in an orthopedic patient] Krisiuk AP, et al. **Ortop Travmatol Protez** 1989 Dec; (12):54–6 **(Rus)**

[Clinico–radiologic evaluation of deformation of the foot and lower limb in congenital clubfoot] Ustiantsev VI, et al. **Ortop Travmatol Protez** 1989 Aug;(8):35–9 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Development of the foot in prenatal life in relation to idiopathic club foot. Kawashima T, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):232–7

EPIDEMIOLOGY

Congenital talipes equinovarus [editorial] Stephens MM. **Ir Med J** 1990 Jun;83(2):48–9

METABOLISM

Histochemistry of abductor hallucis muscle in children with idiopathic clubfoot and in controls. Sirca A, et al. **J Pediatr Orthop** 1990 Jul–Aug;10(4):477–82

PATHOLOGY

Morphometric study of muscle in congenital idiopathic club foot. Gosztonyi G, et al. **Pathol Res Pract** 1989 Nov; 185(5):790–4

PHYSIOPATHOLOGY

Foot–progression angle in clubfeet. Yngve DA. **J Pediatr Orthop** 1990 Jul–Aug;10(4):467–72

RADIOGRAPHY

Arterial abnormalities in talipes equinovarus as assessed by angiography and the Doppler technique. Sodre H, et al. **J Pediatr Orthop** 1990 Jan–Feb;10(1):101–4

REHABILITATION

Results of physical therapy for idiopathic clubfoot: a long–term follow–up study. Bensahel H, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):189–92

SURGERY

Simultaneous Achilles and tibialis posterior tendon lengthening in cerebral palsy. Uyttendaele D, et al. **Acta Orthop Belg** 1989;55(1):62–6

Clubfoot with supernumerary soleus muscle. Report of 2 cases. Danielsson LG, et al. **Acta Orthop Scand** 1990 Aug; 61(4):371–3

High incidence of poor results in clubfoot surgery [letter] Altchek M. **Clin Orthop** 1990 Sep;(258):310–2

Results of surgical treatment of talipes equinovarus congenita. Lau JH, et al. **Clin Orthop** 1989 Nov;(248):219–26

Necrosis leading to amputation following clubfoot surgery. Hootnick DR, et al. **Foot Ankle** 1990 Jun;10(6):312–6

Split posterior tibial tendon transfer for spastic equinovarus foot deformity. Medina PA, et al. **Foot Ankle** 1989 Oct; 10(2):65–7

Operative treatment of congenital idiopathic club foot [letter] Goldner JL. **J Bone Joint Surg [Am]** 1990 Feb;72(2):307–9

The use of a tissue expander in club–foot surgery. A case report and review. Atar D, et al. **J Bone Joint Surg [Br]** 1990 Jul;72(4):574–7

Clubfoot: a cord retainer. Fahmy WM, et al. **J Pediatr Orthop** 1989 Sep–Oct;9(5):575–8

Role of talocalcaneal osteotomy in clubfoot surgery: results in 31 surgically treated feet. Hjelmstedt A, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):193–7

The cincinnati incision for the split posterior tibial tendon transfer: a technical note. Townsend DR, et al. **J Pediatr Orthop** 1990 Sep–Oct;10(5):667–9

Clubfoot release without wide subtalar release. Yngve DA, et al. **J Pediatr Orthop** 1990 Jul–Aug;10(4):473–6

[Extensive subtalar release in the treatment of congenital pes equinovarus] Dungl P, et al. **Acta Chir Orthop Traumatol Cech** 1990 Apr;57(2):111–26 (Eng. Abstr.) **(Cze)**

[Tendon surgery in equinovarus deformity of the foot in children and adolescents with cerebral palsy] Taussig G, et al. **Rev Chir Orthop** 1990;76(2):128–36 (24 ref.) (Eng. Abstr.) **(Fre)**

[Tibial corrective osteotomy in the treatment of congenital clubfoot] Schuckmann W. **Beitr Orthop Traumatol** 1989 Jul;36(7):332–6 (Eng. Abstr.) **(Ger)**

[Congenital idiopathic clubfoot. Etiology, pathomorphology, therapy and results] Grill F. **Padiatr Padol** 1989; 24(4):279–87 (Eng. Abstr.) **(Ger)**

[The possibilities of osteoplastic measures in mid–foot amputation and osteomyelitis of the tarsus] Gast W, et al. **Unfallchirurg** 1989 Oct;92(10):509–14 (Eng. Abstr.) **(Ger)**

[Treatment of equino–excavato–varus deformity of the feet in adults using a hinge–distraction apparatus] Istomina IS, et al. **Ortop Travmatol Protez** 1990 Mar;(3):19–23 (Eng. Abstr.) **(Rus)**

[Surgical treatment of congenital clubfoot in children] Moroz PF. **Ortop Travmatol Protez** 1990 Mar;(3):16–9 (Eng. Abstr.) **(Rus)**

[Restorative–reconstructive surgery of the sequelae of osteomyelitis of the lower extremities] Akzhigitov GN, et al. **Vestn Khir** 1989 Jun;142(6):63–8 (Eng. Abstr.) **(Rus)**

THERAPY

Treatment of congenital club foot with a modified Denis Browne splint. Yamamoto H, et al. **J Bone Joint Surg [Br]** 1990 May;72(3):460–3

Deformity and disability from treated clubfoot. Aronson J, et al. **J Pediatr Orthop** 1990 Jan–Feb;10(1):109–19

Practical applications in idiopathic clubfoot: a retrospective multicentric study in EPOS. Bensahel H, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):186–8

[Compression–distraction osteosynthesis in the treatment of congenital and acquired deformities in children] Kolontai IuIu, et al. **Vestn Khir** 1989 May;142(5):85–6 **(Rus)**

CLUPEINE see under **PROTAMINES**

CLUSTER ANALYSIS

Clusters or clustering of Henoch–Schönlein purpura [letter; comment] Nielsen HE. **Am J Dis Child** 1990 Jun;144(6):620 Comment on: Am J Dis Child 1989 Jul;143(7):798–803.

National Conference on Clustering of Health Events. Atlanta, Georgia, February 16–17, 1989. **Am J Epidemiol** 1990 Jul; 132(1 Suppl):S1–202

Matching evidence about clustered health events with tort law requirements. Black B. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S79–86

Qualitative and quantitative assessment of geographic clustering of population samples selected using different methods of random digit dialing. Davis S, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S144–55

State health department response to disease cluster reports: a protocol for investigation. Fiore BJ, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S14–22

A statistical method for evaluating suicide clusters and implementing cluster surveillance. Gibbons RD, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S183–91

Counterpoint from a cluster buster. Neutra RR. **Am J Epidemiol** 1990 Jul;132(1):1–8

Controlling for time–varying population distributions in disease clustering studies. Roberson PK. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S131–5

The public health importance of clusters: a note from the Centers for Disease Control. Rothenberg RB, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S3–5

A sobering start for the cluster busters' conference. Rothman KJ. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S6–13

Detecting disease clusters: the importance of statistical power. Wartenberg D, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S156–66

Effects of cluster sampling on epidemiologic analysis in population–based case–control studies. Graubard BI, et al. **Biometrics** 1989 Dec;45(4):1053–71

Asymptotic distribution of an index for disease clustering. Tango T. **Biometrics** 1990 Jun;46(2):351–7

Analysis of clinical trial outcomes: some comments on subgroup analyses. Buyse ME. **Controlled Clin Trials** 1989 Dec;10(4 Suppl):187S–194S

Adjusting for clustering in survey research. Ferguson JA, et al. **DICP** 1990 Mar;24(3):310–3

Cellulase families revealed by hydrophobic cluster analysis. Henrissat B, et al. **Gene** 1989 Sep 1;81(1):83–95

Cluster sampling in hospital surveillance. Burmeister LF. **Infect Control Hosp Epidemiol** 1989 Dec;10(12):573–5

Disease clustering: hide or seek? [editorial] **Lancet** 1990 Sep 22;336(8717):717–8

Guidelines for investigating clusters of health events. **MMWR** 1990 Jul 27;39 RR 11:1–23

Impact of cancer atlases on cancer epidemiology: experience of the Danish Atlas of Cancer Incidence. Carstensen B. **Recent Results Cancer Res** 1989;114:227–39

Italian Atlas of Cancer Mortality. Cislaghi C, et al. **Recent Results Cancer Res** 1989;114:143–53

Danish Cancer Registry 1942–1980: some aspects of cancer registration. Clemmesen J. **Recent Results Cancer Res** 1989; 114:99–102

Geographical patterns of cancer mortality in Spain. Errezola M, et al. **Recent Results Cancer Res** 1989;114:154–62

Atlas of cancer incidence in Norway 1970–1979. Glattre E. **Recent Results Cancer Res** 1989;114:216–26

Cancer Morbidity Atlas of the Saarland: an outline of the model project for the analysis of health and environmental data in the Saarland. Grüger J, et al. **Recent Results Cancer Res** 1989;114:34–40

Historical evolution of disease mapping in general and specifically of cancer mapping. Howe GM. **Recent Results Cancer Res** 1989;114:1–21

Scottish Cancer Incidence Atlas 1985. Kemp I. **Recent Results Cancer Res** 1989;114:137–42

Cancer mapping: overview and conclusions. Muir CS. **Recent Results Cancer Res** 1989;114:269–73

The new United States Cancer Atlas. Pickle LW, et al. **Recent Results Cancer Res** 1989;114:196–207

Cancer maps of Finland: an example of small area–based mapping. Pukkala E. **Recent Results Cancer Res** 1989; 114:208–15

Cancer Mortality Atlas of the European Economic Community. Smans M, et al. **Recent Results Cancer Res** 1989;114:253–68

Analysis of spatial aggregation. Smans M. **Recent Results Cancer Res** 1989;114:83–6

Geographical distribution of cancer in Poland. Zatonski W, et al. **Recent Results Cancer Res** 1989;114:176–95

Changing heritability of nutritional disease: another explanation for clustering. Scriver CR. **World Rev Nutr Diet** 1990;63:60–71 (34 ref.)

[Configuration cluster analysis as an alternative to configuration frequency analysis] Lienert GA, et al. **Z Klin Psychol Psychopathol Psychother** 1989;37(4):451–7

(Eng. Abstr.) (Ger)

CLUSTER HEADACHE see under VASCULAR HEADACHE

CLUSTERING see CLUSTER ANALYSIS

CME-CARBODIIMIDE see under CARBODIIMIDES

CMHC see COMMUNITY MENTAL HEALTH CENTERS

COA see COENZYME A

COA-TRANSFERASES see COENZYME A-TRANSFERASES

COAGULANTS

ADVERSE EFFECTS

Delayed onset of HIV infection in child transfused in Italy in 1978 [letter] [see comments] Guarino A, et al. **Lancet** 1990 Jan 6;335(8680):46 Comment in: Lancet 1990 Feb 17;335(8686):425–6.

PHARMACOLOGY

Effects of procoagulants on wound healing. Ramesh KV, et al. **Indian J Exp Biol** 1990 Jan;28(1):43–5

Bubble versus membrane oxygenation in baboons without anticoagulants. Fletcher JR, et al. **Surg Forum** 1978; 29:290–2

THERAPEUTIC USE

Procoagulant effects of intraocular sodium hyaluronate (Healon) after phakic diabetic vitrectomy. A prospective, randomized study. Packer AJ, et al. **Ophthalmology** 1989 Oct;96(10):1491–4

COAGULASE

ANALYSIS

Percentages and distributions of teicoplanin- and vancomycin-resistant strains among coagulase-negative staphylococci. Goldstein FW, et al. **Antimicrob Agents Chemother** 1990 May;34(5):899–900

In vitro activities of vancomycin and teicoplanin against coagulase-negative staphylococci isolated from neutropenic patients. Maugein J, et al. **Antimicrob Agents Chemother** 1990 May;34(5):901–3

Coagulase testing compared with commercial kits for routinely identifying Staphylococcus aureus. Rossney AS, et al. **J Clin Pathol** 1990 Mar;43(3):246–52

Correlation between beta-lactamase production and MIC values against penicillin with coagulase negative staphylococci. Narayani TV, et al. **J Postgrad Med** 1989 Jul;35(3):147–51

[The biological characteristics of coagulase-positive staphylococci isolated from hamadryas baboons] Dzhikidze EK, et al. **Mikrobiol Zh** 1985 Mar-Apr;47(2):70–4 (Eng. Abstr.) (Rus)

BIOSYNTHESIS

Production of "virulence factors" by "epidemic" methicillin-resistant Staphylococcus aureus in vitro. Jordens JZ, et al. **J Med Microbiol** 1989 Dec;30(4):245–52

Altered virulence of a pleiotropic Staphylococcus aureus mutant with a low producibility of coagulase and other factors in mice. Seki K, et al. **Microbiol Immunol** 1989; 33(12):981–90

Species distribution of coagulase-positive staphylococci isolated from dogs. Woldehiwet Z, et al. **Vet Rec** 1990 May 12;126(19):485

BLOOD

Coagulase-negative staphylococcal bacteremia in neonates: confusion continued [comment] Edwards MS. **Pediatrics** 1990 Aug;86(2):320–2 (19 ref.) Comment on: Pediatrics 1990 Aug;86(2):157–62.

GENETICS

The coagulase of Staphylococcus aureus 8325–4. Sequence analysis and virulence of site-specific coagulase-deficient mutants. Phonimdaeng P, et al. **Mol Microbiol** 1990 Mar; 4(3):393–404

Nucleotide and deduced amino acid sequences of staphylocoagulase gene from Staphylococcus aureus strain 213. Kaida S, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8871

ISOLATION & PURIFICATION

Comparison of the staphylocoagulase activities of Staphylococcus aureus and Staphylococcus intermedius on Chromozym-TH. Raus J, et al. **J Clin Microbiol** 1990 Feb; 28(2):207–10

Distinguishing sepsis from blood culture contamination in young infants with blood cultures growing coagulase-negative staphylococci [see comments] St Geme JW 3d, et al. **Pediatrics** 1990 Aug;86(2):157–62 Comment in: Pediatrics 1990 Aug;86(2):320–2.

METABOLISM

Phage-typing of coagulase-negative staphylococci. Factors influencing typability. Rosdahl VT, et al. **APMIS** 1990 Apr; 98(4):299–304

Coagulase-negative staphylococci: incidence, pathogenicity, and treatment in the 1990s. Bailey EM, et al. **DICP** 1990 Jul-Aug;24(7–8):714–20 (85 ref.)

In vitro activity of netilmicin alone and in combination with azlocillin, mezlocillin and imipenem against 149 coagulase-negative staphylococci. Piccolomini R, et al. **Drugs Exp Clin Res** 1989;15(6–7):303–8

[Correlation of slime production and pathogenicity of coagulase-negative staphylococci] Végh Z, et al. **Orv Hetil** 1990 Feb 4;131(5):231–4 (30 ref.) (Eng. Abstr.) (Hun)

PHARMACOLOGY

Opsonic requirements and surface hydrophobicity of novobiocin-resistant, coagulase-negative staphylococci. Maródi L, et al. **J Med Microbiol** 1990 May;32(1):19–24

COAGULATION FACTORS see BLOOD COAGULATION FACTORS

COAL

Placental transfer of metals of coal fly ash into various fetal organs of rat. Srivastava VK, et al. **Arch Toxicol** 1990; 64(2):153–6

Natural inhalation exposure to coal smoke and wood smoke induces lung cancer in mice and rats. Liang CK, et al. **Biomed Environ Sci** 1988 Jun;1(1):42–50

Ambient and biological monitoring of cokeoven workers: determinants of the internal dose of polycyclic aromatic hydrocarbons. Jongeneelen FJ, et al. **Br J Ind Med** 1990 Jul;47(7):454–61

DNA adducts in human environmentally exposed to aromatic compounds in an industrial area of Poland. Hemminki K, et al. **Carcinogenesis** 1990 Jul;11(7):1229–31

Blood anti-oxidant parameters at different stages of pneumoconiosis in coal workers. Engelen JJ, et al. **Environ Health Perspect** 1990 Mar;84:165–72

Contrasting bronchoalveolar leukocyte responses in rats inhaling coal mine dust, quartz, or titanium dioxide: effects of coal rank, airborne mass concentration, and cessation of exposure. Donaldson K, et al. **Environ Res** 1990 Jun; 52(1):62–76

Modification of pulmonary silicotic reaction in rats exposed to coal fly ash. Kaw JL, et al. **Exp Pathol** 1990;39(1):49–57

Radionuclides in effluent from coal mines, a coal-fired power plant, and a phosphate processing plant in Zasavje, Slovenia (Yugoslavia). Kobal I, et al. **Health Phys** 1990 Jan; 58(1):81–5

Determination of benzo[a]pyrene diol epoxide-DNA adducts in white blood cell DNA from coke-oven workers: the impact of smoking. van Schooten FJ, et al. **J Natl Cancer Inst** 1990 Jun 6;82(11):927–33

Effect of in vivo coal dust exposure on arachidonic acid metabolism in the rat alveolar macrophage. Kuhn DC, et al. **J Toxicol Environ Health** 1990;29(2):157–68

Coal dust and compensation [letter; comment] Morgan WK. **Lancet** 1990 Mar 31;335(8692):786 Comment on: Lancet 1990 Feb 10;335(8685):322–4.

Urinary 1-hydroxypyrene as an indicator of human exposure to ambient polycyclic aromatic hydrocarbons in a coal-burning environment. Zhao ZH, et al. **Sci Total Environ** 1990 Mar;92:145–54

Genotoxic effects of fly ash in bacteria, mammalian cells and animals. Morris DL, et al. **Teratogenesis Carcinog Mutagen** 1989;9(5):297–314

[Dust deposition and elimination in the lung of rats inhaling coal and coalstone dusts] Li CY. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Nov; 23(6):323–5 (Eng. Abstr.) (Chi)

[The immunotoxicological basis for the revision of suspended particulates health standard] Wang J, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Jul;23(4):211–4 (Eng. Abstr.) (Chi)

[Distribution of under-pit noise of coal mining] Yang DC. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Nov; 23(6):326–9 (Eng. Abstr.) (Chi)

[Effective measures to control air pollution from burning coal] Zhang YX. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1990 Jan;24(1):13–5 (Eng. Abstr.) (Chi)

[Levels of metabolites of selected chemical compounds in the urine of workers in pitch coke plant] Bieniek G, et al. **Med Pr** 1989;40(3):183–91 (Eng. Abstr.) (Pol)

[Effect of work in hot shops at the coke-processing plant on the liver and gastrointestinal tract] Pokrzywnicki W, et al. **Med Pr** 1989;40(5):315–20 (Eng. Abstr.) (Pol)

[Characteristics of coke plants. Health and ergonomic conditions] Sroczyński J, et al. **Med Pr** 1990;41(1):44–51 (Eng. Abstr.) (Pol)

[Neutrophil function in the peripheral blood of workers in a coke plant] Misiewicz A, et al. **Przegl Lek** 1990; 47(2):275–7 (Eng. Abstr.) (Pol)

[Various non-specific immunity proteins in the blood serum of workers in the coke-processing industry] Misiewicz A, et al. **Wiad Lek** 1989 Jul 1–15;42(13–15):854–7 (Eng. Abstr.) (Pol)

[Radiation-hygienic significance of gas-aerosol discharge of coal thermoelectric plants (review of the literature)] Novikova NK, et al. **Gig Sanit** 1990 Mar;(3):42–5 (37 ref.) (Rus)

[The health status and nature of the nutrition of workers in the coke chemical industry] Kovalenko AA, et al. **Vopr Pitan** 1990 May-Jun;(3):64–6 (Rus)

ADVERSE EFFECTS

Lignite and the derived steam-activated carbon. The pulmonary response to their dusts. Gross P, et al. **Arch Environ Health** 1967 Mar;14(3):450–60

Coinhibition of viral interferon induction by benzo[a]pyrene in association with occupation-related particles. Hahon N, et al. **Environ Res** 1990 Jun;52(1):83–98

Subacute inhalation toxicity of a medium-boiling coal liquefaction product (154–378 degrees C) in the rat [Part III] Chu I, et al. **J Toxicol Environ Health** 1989; 28(2):195–204

Coal dust and compensation [see comments] **Lancet** 1990 Feb 10;335(8685):322–4 (26 ref.) Comment in: Lancet 1990 Mar 3;335(8688):537–8. Comment in: Lancet 1990 Mar 31;335(8692):786.

Coal dust and compensation [letter; comment] Seaton A. **Lancet** 1990 Mar 3;335(8688):537–8 Comment on: Lancet 1990 Feb 10;335(8685):322–4.

The epidemiology of the morbidity of respiratory system malignant neoplasm in Poland on the background of the increasing atmospheric air pollution by dust and vehicle exhaust emission. Przybylski Z. **Rocz Panstw Zakl Hig** 1989;40(4–6):257–65

[The investigation of the total amount of fluoride intake with correlative dental fluorosis polluted by burn coal in the epidemic fluorosis districts] Wu DL, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1990 Jan;24(1):1–5 (Eng. Abstr.) (Chi)

[Studies of immune system parameters in coke plant workers] Burak W, et al. **Med Pr** 1990;41(1):52–6 (Eng. Abstr.) (Pol)

[Cost estimation of the negative social and economic consequences of polluting the atmospheric air by the products of burning coal mine tailings] Chernykh OV. **Gig Sanit** 1990 Feb;(2):47–9 (Rus)

[Biological effect of brown coal dust on the bronchopulmonary system and immunocompetent organs (experimental morphological study)] Ivanova LG. **Gig Tr Prof Zabol** 1990;(2):21–4 (Eng. Abstr.) (Rus)

[Immunomorphological characteristics of the bronchi and broncho- pulmonary lymphatic system after sensitization of rats with coal allergen] Shkutin AE, et al. **Gig Tr Prof Zabol** 1989;(8):48–50 (Rus)

ANALYSIS

Respirable dust exposures in U.S. surface coal mines (1982–1986). Piacitelli GM, et al. **Arch Environ Health** 1990 Jul-Aug;45(4):202–9

The relationship between mutagenicity and chemical composition of polycyclic aromatic compounds from coal pyrolysis. Wornat MJ, et al. **Environ Health Perspect** 1990 Mar;84:193–201

Assessment of radiological emissions from Spanish coal power plants: radioactive releases and associated risks. Alvarez MC, et al. **Health Phys** 1989 Nov;57(5):765–9

[Use of laser mass spectrometry in the study of the composition and pathogenicity of coal aerosols] Borisenkova RV, et al. **Gig Sanit** 1990 Feb;(2):72–5 (Rus)

COAL MINING

see related

ANTHRACOSILICOSIS

Prevalence of pneumonoconiosis among coal and heavy metal miners in Zimbabwe. Cullen MR, et al. **Am J Ind Med** 1990;17(6):677–82

Prevalence of silicosis at death in underground coal miners. Green FH, et al. **Am J Ind Med** 1989;16(6):605–15

Tailored safety training for miners in small Pennsylvania surface coal mines [news] Passmore D, et al. **Am J Public Health** 1990 Sep;80(9):1134–5

Is regulation effective? A case study of underground coal mining. Weeks JL. **Ann N Y Acad Sci** 1989;572:189–99; discussion 221–3

Fibres in Lower Silesia hard coal mines respirable dusts. Adamus J, et al. **Ann Occup Hyg** 1990 Feb;34(1):91–5

Respirable dust exposures in U.S. surface coal mines (1982–1986). Piacitelli GM, et al. **Arch Environ Health** 1990 Jul-Aug;45(4):202–9

Community chest x-rays for pneumoconiosis prevention. Tanaka S, et al. **Arch Environ Health** 1966 Jan;12(1):10–4

Pulmonary injury in laboratory animals induced by Huai-Nan coal mine respirable dust. Chen BH, et al. **Biomed Environ Sci** 1988 Oct;1(3):247–52

Exercise capacity in coal workers' pneumoconiosis: an analysis using causal modelling [letter] **Br J Ind Med** 1990 Aug;47(8):573–4

Inflammatory responses in lungs of rats inhaling coalmine dust: enhanced proteolysis of fibronectin by bronchoalveolar leukocytes. Brown GM, et al. **Br J Ind Med** 1989 Dec;46(12):866–72

Exercise capacity in coal workers' pneumoconiosis: an

analysis using causal modelling. Cooper JK, et al. **Br J Ind Med** 1990 Jan;47(1):52–7
Occupational risk factors for upper respiratory tract and upper digestive tract cancers. Haguenoer JM, et al. **Br J Ind Med** 1990 Jun;47(6):380–3
Dyspepsia in coalminers and the general population: a comparative study. Harrison JD, et al. **Br J Ind Med** 1989 Jun;46(6):428–9
Factors associated with the development of progressive massive fibrosis in British coalminers: a case-control study. Maclaren WM, et al. **Br J Ind Med** 1989 Sep;46(9):597–607
Smoking and mortality from coalworkers' pneumoconiosis. Sadler RL, et al. **Br J Ind Med** 1990 Feb;47(2):141–2
Coalmining, emphysema, and compensation [editorial] Seaton A. **Br J Ind Med** 1990 Jul;47(7):433–5
Influence of rheumatoid factor in coalminers' pneumoconiosis in the Fujian Shaowu colliery, south China. Yeh YB, et al. **Br J Ind Med** 1990 Feb;47(2):143–4
Recent advances in the pathogenesis and clinical assessment of mineral dust pneumoconioses: asbestosis, silicosis and coal pneumoconiosis. Bégin R, et al. **Eur Respir J** 1989 Nov;2(10):988–1001 (161 ref.)
Molecular epidemiology of coal worker's pneumoconiosis: application to risk assessment of oxidant and monokine generation by mineral dusts. Borm PJ, et al. **Exp Lung Res** 1990 Jan;16(1):57–71
Abnormal secretion of interleukin-1 and tumor necrosis factor alpha by alveolar macrophages in coal worker's pneumoconiosis: comparison between simple pneumoconiosis and progressive massive fibrosis. Lassalle P, et al. **Exp Lung Res** 1990 Jan;16(1):73–80
Lymphocyte modulation by inflammatory bronchoalveolar leukocytes. Kusaka Y, et al. **FEMS Microbiol Immunol** 1990 May;2(1):9–10
Radionuclides in effluent from coal mines, a coal-fired power plant, and a phosphate processing plant in Zasavje, Slovenia (Yugoslavia). Kobal I, et al. **Health Phys** 1990 Jan; 58(1):81–5
Eye injuries in coal mining. Carreck GC. **Injury** 1989 May; 20(3):145–8
Part of the yellow dog: U.S. coal miners' opposition to the company doctor system, 1936–1946. Derickson A. **Int J Health Serv** 1989;19(4):709–20
Sickness absence due to skin disorders in the coal mining industry. Puttick L. **J Soc Occup Med** 1990 Spring; 40(1):23–8
Respiratory infections in coal miners exposed to nitrogen oxides. Jacobsen M, et al. **Res Rep Health Eff Inst** 1988 Jul;(18):1–56
[Ancylostomiasis in the mines. Apropos of 2 cases] Petithory JC, et al. **Bull Soc Pathol Exot Filiales** 1989;82(5):694–700 (Eng. Abstr.) (Fre)
[Rapidly progressive glomerulonephritis in pneumoconiotic coal miners] Dracon M, et al. **Nephrologie** 1990;11(2):61–5 (Eng. Abstr.) (Fre)
[Dust deposits in lung tumors—cause and significance] Fisseler-Eckhoff A, et al. **Pneumologie** 1990 Feb;44 Suppl 1:325–6 (Eng. Abstr.) (Ger)
[Anthracosilicosis changes in abdominal lymph nodes in miners] Lawerenz JU, et al. **Pneumologie** 1990 Feb;44 Suppl 1:254–5 (Eng. Abstr.) (Ger)
[A comparative evaluation of lung ventilation in patients with dust-caused bronchitis and pneumoconiosis using roentgenpneumopolygraphy] Amosov IS, et al. **Radiol Diagn (Berl)** 1990;31(1):49–56 (Eng. Abstr.) (Ger)
[Experience with ambulatory functional x-ray studies of coal mine workers for the early detection of occupational lung diseases] Cyb AF, et al. **Radiol Diagn (Berl)** 1990;31(1):63–9 (Eng. Abstr.) (Ger)
[Radiologic diagnosis of silicotic cicatricial cancer. Incidence and correlation with pathologic-anatomic results] Tschakert H, et al. **Radiologe** 1990 Apr;30(4):172–7 (Eng. Abstr.) (Ger)
[Chemical burns of the eyes. I. Conservative treatment] Gierek-Łapińska A, et al. **Klin Oczna** 1989 Feb-Mar; 91(2–3):55–6 (Eng. Abstr.) (Pol)
[Chemical burns of the eyes. II. Surgical treatment] Gierek-Łapińska A, et al. **Klin Oczna** 1989 Feb-Mar; 91(2–3):57–9 (Eng. Abstr.) (Pol)
[Selected parameters of the immune system in coal miners with pneumoconiosis] Burak W. **Pol Arch Med Wewn** 1989 Oct-Dec;82(4–6):137–46 (Eng. Abstr.) (Pol)
[The assessment of the body functional state in miners by heart rhythm indices] Aleksandrov VI. **Fiziol Cheloveka** 1990 Mar-Apr;16(2):125–34 (Rus)
[Current problems of teaching hygiene to students of vocational coal mining schools] Kharkovenko NM. **Gig Sanit** 1990 Jan;(1):51–4 (Eng. Abstr.) (Rus)
[Identification of the groups of miners requiring ambulatory care using personal computers] Khvastunov RM, et al. **Gig Sanit** 1989 Dec;(12):14–6 (Eng. Abstr.) (Rus)
[Effect of the dust factor on the condition of the pulmonary neural elements in coal miners] Iulish NR. **Gig Tr Prof Zabol** 1990;(2):26–9 (Eng. Abstr.) (Rus)
[Incidence of chronic bronchitis in coal miners] Valutsina VM, et al. **Gig Tr Prof Zabol** 1990;(5):4–7 (Eng. Abstr.) (Rus)
[Morbidity of workers of deep coal mines] Kozhemiakin SV. **Sov Med** 1990;(5):72–3 (Rus)
[Mass screening of coal miners with ischemic heart disease] Malaia LT, et al. **Sov Zdravookhr** 1990;(2):47–50 (Eng. Abstr.) (Rus)
[Morbidity with temporary loss of work capacity in coal miners] Zinger FKh, et al. **Sov Zdravookhr** 1989;(8):30–4 (Rus)
[A case of Caplan's syndrome in a miner] Demidov IuL, et al. **Ter Arkh** 1990;62(1):115–6 (Rus)
[Work conditions and health status of workers in coal mining open pits of the Kansk-Achinsk fuel-energy complex and the Southern Yakutsk coal complex] Borisenkova RV. **Vestn Akad Med Nauk SSSR** 1989;(9):40–7 (Eng. Abstr.) (Rus)
[The seasonality of pyoderma in workers of the Don Basin coal mines] Krashchenko VA. **Vestn Dermatol Venerol** 1989;(10):55–8 (Eng. Abstr.) (Rus)
[Experience with the roentgenodiagnosis of disturbances of respiratory function in coal miners] Shkondin LA. **Vestn Rentgenol Radiol** 1989 May-Jun;(3):56–61 (Eng. Abstr.) (Rus)
[The initial manifestations of cerebral circulatory failure in coal mine workers of the Don Basin] Nazarenko VG, et al. **Vrach Delo** 1990 Feb;(2):95–7 (Eng. Abstr.) (Rus)
[Thermography in the diagnosis of respiratory organ diseases in coal miners] Shelygin SI. **Vrach Delo** 1989 Aug; (8):108–10 (Eng. Abstr.) (Rus)
[Evaluation of the factors providing the oxygen regimen to tissues in miners with vibration disease receiving combined therapy with a course of hyperbaric oxygenation] Soboleva NP. **Vrach Delo** 1989 Jul;(7):106–7 (Eng. Abstr.) (Rus)
[Characteristics of the health status of mine rescue workers] Tarasenko VT, et al. **Vrach Delo** 1989 Dec;(12):87–90 (Eng. Abstr.) (Rus)

HISTORY

[A jubilee to honor Prof. Witold Zahorski] **Med Pr** 1989; 40(4):269–72 (Pol)

INSTRUMENTATION

[Hygienic evaluation of noise from mine ventilators in residential areas] Koshel' IV. **Gig Sanit** 1989 Oct;(10):75–7 (Rus)
[Hygienic and ergonomic analysis of the technology for sinking main and subsidiary mine shafts] Meniailo NI, et al. **Gig Tr Prof Zabol** 1989;(12):7–10 (Eng. Abstr.) (Rus)

STANDARDS

[Characteristics of adaptation of adolescents to different conditions of occupational training in coal mines] Kharkovenko NM, et al. **Gig Sanit** 1990 May;(5):50–4 (Eng. Abstr.) (Rus)
[Hygienic substantiation of the information and energy models of variable noise] Kolganov AV. **Gig Sanit** 1989 Oct;(10):15–8 (Eng. Abstr.) (Rus)
[Methods of medical prevention of borderline conditions and improvement in the work capacity of miners working in deep coal mines] Kobets GP, et al. **Gig Tr Prof Zabol** 1990; (1):17–20 (Rus)
[Work hygiene and physiology in highly mechanized faces of modern coal mines of the Karaganda region] Li VA. **Gig Tr Prof Zabol** 1990;(2):18–21 (Eng. Abstr.) (Rus)
[Effect of working conditions in deep coal mines of the Donetsk region on the course of ischemic heart disease in miners] Malaia LT, et al. **Kardiologiia** 1989 Aug; 29(8):25–8 (Eng. Abstr.) (Rus)

STATISTICS & NUMERICAL DATA

[Causes and types of eye injuries in miners and employees of coal mines] Koraszewska-Matuszewska B, et al. **Klin Oczna** 1989 Feb-Mar;91(2–3):60–2 (Eng. Abstr.) (Pol)
[Study of the functional status of miners working in deep coal mines based on the results of mass screening] Nekhorosheva MA, et al. **Gig Tr Prof Zabol** 1990;(1):14–7 (Eng. Abstr.) (Rus)

COAL TAR

ADMINISTRATION & DOSAGE

Formation of DNA adducts in the skin of psoriasis patients, in human skin in organ culture, and in mouse skin and lung following topical application of coal-tar and juniper tar. Schoket B, et al. **J Invest Dermatol** 1990 Feb; 94(2):241–6
[Carcinogenic and toxic hydrocarbon levels in bitumen oxidized with added coal tar during high temperature carbonization] Serkovskaia GS, et al. **Gig Sanit** 1990 Mar; (3):60–1 (Rus)

ADVERSE EFFECTS

Wood tars allergy, cross-sensitization and coal tar. Roesyanto ID, et al. **Contact Dermatitis** 1990 Feb;22(2):95–8

ANALYSIS

[Fixation of dust samples during photometric analysis of the levels of opaque aerosols] Pogozhev SV, et al. **Gig Sanit** 1989 Sep;(9):49–50 (Rus)

THERAPEUTIC USE

Low concentration dithranol and coal tar (Psorin) in psoriasis: a comparison with alcoholic coal tar extract and allantoin (Alphosyl). Harrington CI. **Br J Clin Pract** 1989 Jan;43(1):27–9
Effectiveness of a new coal tar preparation in the treatment of chronic plaque-type psoriasis. Langner A, et al. **Br J Clin Pract** 1989 Apr;43(4):148–50
A comparative trial of Clinitar versus hydrocortisone cream in the treatment of atopic eczema. Munkvad M. **Br J Dermatol** 1989 Dec;121(6):763–6

TOXICITY

[The rabbit ear model as an acnegenicity test. 2. Effect of coal tar on follicle and sebaceous gland epithelium tumor induction] Zimmermann R. **Dermatol Monatsschr** 1989; 175(11):691–8 (Eng. Abstr.) (Ger)
[The mutagenic activity of coal tar] Lycheva TA, et al. **Eksp Onkol** 1990;12(2):17–20 (Eng. Abstr.) (Rus)

COAT PROTEINS see **CAPSID**

COATED PITS, CELL MEMBRANE

see related
CLATHRIN

COATED PITS, CELL MEMBRANE see under **RECEPTOSOMES**

COBALAMIN see **VITAMIN B 12**

COBALT

Proton–metal distance determination in cobalt(II) stellacyanin by 1H nuclear magnetic resonance relaxation measurements including Curie–spin effects: a proposed structure of the metal–binding region. Dahlin S, et al. **Biochemistry** 1989 Sep 5;28(18):7224–33
The role of the metal ion in the refolding of denatured bovine Co(II)–carbonic anhydrase II. Bergenhem N, et al. **Biochim Biophys Acta** 1989 Oct 19;998(3):277–85
One–electron reduction of the oxy form of cobalt–substituted hemoproteins. Kobayashi K, et al. **Biochim Biophys Acta** 1990 Mar 1;1037(3):297–301
Cobalt probing of structural alternatives for insulin in solution. Thomas B, et al. **Biol Chem Hoppe Seyler** 1989 Dec;370(12):1235–44
Structural and electrostatic effects on binding of trivalent cations to double–stranded and single–stranded poly[d (AT)] Plum GE, et al. **Biopolymers** 1990 Jan;29(1):13–27
Induction of epileptic seizure activity by a specific protein from cobalt–induced epileptogenic cortex of rats. Onozuka M, et al. **Brain Res** 1990 Jan 15;507(1):143–5
Activation of Co released by in–core and ex–core sources. Ocken H. **Health Phys** 1990 Mar;58(3):259–61
Lymphocyte transformation with cobalt in hard metal asthma. Kusaka Y, et al. **Ind Health** 1989;27(4):155–63
Selective cleavage of N–terminal amino acid in a peptide by polymeric cobalt (III) triene complex. Mehra A, et al. **Indian J Biochem Biophys** 1989 Oct;26(5):348–9
Orientation of dioxygen bound to cobalt(II) bleomycin–DNA fibers. Chikira M, et al. **J Biol Chem** 1989 Dec 25; 264(36):21478–80
Interaction of purine nucleotides with inert paramagnetic Cr(III) probes evaluated by NMR relaxation effects. Molecular mechanics calculations on Cr(III) and Co(III) polyphosphate complexes. Cini R, et al. **J Biomol Struct Dyn** 1990 Feb;7(4):859–78
Mapping of insect muscle fibres innervated by the same motoneurone by intracellular injection with cobalt dye. Theophilidis G, et al. **J Neurosci Methods** 1989 Nov; 30(2):147–9
Two–dimensional crystalline arrays of Na,K–ATPase with new subunit interactions induced by cobalt–tetrammine–ATP. Skriver E, et al. **J Ultrastruct Mol Struct Res** 1989 Dec;102(3):189–95
Surface complexes of xanthophyll films with transition metal ions. Tomoaia–Cotişel M, et al. **Physiologie** 1989 Oct–Dec; 26(4):341–7 (11 ref.)
[Data for the assessment of maximum allowable concentration of dust in the air of work zone during production of permanent magnets based on samarium and cobalt] Dubelkovskaia LS, et al. **Gig Tr Prof Zabol** 1990; (5):17–9 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Studies on in vitro synthesis of serum lipoproteins in rats maintained on normal and atherogenic diets: effects of cobalt and manganese supplements at deficient and abundant doses. Basu Mallik AK. **Indian J Exp Biol** 1989 May;27(5):460–3
Duration of effective benefit from administration of graded oral doses of cobalt to sheep. MacPherson A. **Vet Rec** 1989 Dec 9;125(24):594–6

ADVERSE EFFECTS

Rapidly fatal progression of cobalt lung in a diamond polisher. Nemery B, et al. **Am Rev Respir Dis** 1990 May; 141(5 Pt 1):1373–8
The respiratory effects of cobalt. Cugell DW, et al. **Arch Intern Med** 1990 Jan;150(1):177–83
Allergy to nickel or cobalt: tolerance to nickel and cobalt

samples in man and in the guinea pig allergic or sensitized to these metals. Cavelier C, et al. **Contact Dermatitis** 1989 Aug;21(2):72–8

Allergy to chromate, cobalt and nickel in Łódź 1977–1988. Kieć-Swierczynska M. **Contact Dermatitis** 1990 Apr; 22(4):229–31

Ventilatory function of workers exposed to cobalt and diamond containing dust. Gennart JP, et al. **Int Arch Occup Environ Health** 1990;62(4):333–6

Hard metal asthma: cross immunological and respiratory reactivity between cobalt and nickel? Shirakawa T, et al. **Thorax** 1990 Apr;45(4):267–71

[The cobalt lung in diamond cutters: a new disease] Demedts M, et al. **Verh K Acad Geneeskd Belg** 1989;51(6):559–81 (Eng. Abstr.) (Dut)

[Skin diseases and sensitization to metals in construction workers engaged in the production of pre-cast cellular concrete slabs] Kieć-Swierczyńska M, et al. **Med Pr** 1989; 40(3):192–8 (Eng. Abstr.) (Pol)

[Occupational dermatoses among workers in slag separation plants of the low-carbon ferrichrome industry] Podkin IuS, et al. **Gig Tr Prof Zabol** 1990;(1):20–3 (Eng. Abstr.) (Rus)

[Nickel, chromium and cobalt release from a metal prosthesis in metal-sensitive patients] Vilaplana J, et al. **Med Cutan Ibero Lat Am** 1989;17(6):405–8 (Eng. Abstr.) (Spa)

ANALYSIS

17O, 14N and 15N n.m.r. studies of the Co2+ complexes of cyclo(Pro17O-Gly15N) and cyclo(Gly17O-Pro) in aqueous solution. Tritt-Goc J, et al. **Int J Pept Protein Res** 1989 Oct;34(4):299–305

BLOOD

Cobalt substitution studies on bovine erythrocyte superoxide dismutase: evidence for a novel cobalt-superoxide diamutase derivative. Salvato B, et al. **Biochim Biophys Acta** 1989 Sep 14;998(1):14–20

DEFICIENCY

Sequential changes in plasma methylmalonic acid and vitamin B12 in sheep eating cobalt-deficient grass. Rice DA, et al. **Biol Trace Elem Res** 1989 Nov;22(2):153–64

Methylmalonic acid in the diagnosis of cobalt deficiency in barley-fed lambs. O'Harte FP, et al. **Br J Nutr** 1989 Nov; 62(3):729–38

Serum vitamin B12 and methylmalonic acid determinations in the diagnosis of cobalt deficiency in pregnant ewes. Fisher GE, et al. **Br Vet J** 1990 Mar-Apr;146(2):120–8

A comparison of serum vitamin B12 and serum methylmalonic acid as diagnostic measures of cobalt status in cattle. Paterson JE, et al. **Vet Rec** 1990 Apr 7; 126(14):329–32

Comparison of cobalt supplemented anthelmintics and injected vitamin B12 for cobalt-deficient lambs. Suttle NF, et al. **Vet Rec** 1990 Feb 24;126(8):192–3

Development of a specific radioimmunoassay for vitamin B12 and its application in the diagnosis of cobalt deficiency in sheep. Kennedy DG, et al. **Vet Res Commun** 1990; 14(4):255–65

[Iodine, carbohydrate and protein metabolism in rats with iodine, copper and cobalt deficiency] Marsakova NV, et al. **Fiziol Zh** 1990 Jan-Feb;36(1):51–9 (Eng. Abstr.) (Rus)

[Iodine, carbohydrate and protein metabolism in rats with cobalt deficiency] Marsakova NV, et al. **Fiziol Zh** 1990 Mar-Apr;36(2):43–50 (Eng. Abstr.) (Rus)

DIAGNOSTIC USE

A new method based on cobalt for histochemical and cytochemical demonstration of glucose-6-phosphatase activity. Thiéry G, et al. **J Histochem Cytochem** 1990 Oct; 38(10):1503–9

Cobalt as a gastric juice volume marker: comparison of two methods of estimation. Gana TJ, et al. **J Surg Res** 1990 Jan;48(1):78–83

Horseradish peroxidase and cobalt chloride as neuromarkers in the hypoglossal nucleus. Ukabam CU. **Ric Clin Lab** 1989 Jul-Sep;19(3):273–80

IMMUNOLOGY

Influence of topical metal binding substances, vehicles, and corticosteroid creams on the allergic patch test reaction in metal-sensitive patients. Fischer T, et al. **Dermatol Clin** 1990 Jan;8(1):27–31

[Immunotoxicity of cobalt and nickel—experimental study on cytotoxicity of immuno-sensitive metals] Nagai K, et al. **Nippon Eiseigaku Zasshi** 1989 Dec;44(5):1014–20 (Eng. Abstr.) (Jpn)

METABOLISM

In vitro dissolution of uniform cobalt oxide particles by human and canine alveolar macrophages. Kreyling WG, et al. **Am J Respir Cell Mol Biol** 1990 May;2(5):413–22

Cobalt(II)-substituted class III alcohol and sorbitol dehydrogenases from human liver. Maret W. **Biochemistry** 1989 Dec 26;28(26):9944–9

p10 single-stranded nucleic acid binding protein from murine leukemia virus binds metal ions via the peptide sequence Cys26-X2-Cys29-X4-His34-X4-Cys39. Roberts WJ, et al. **Biochemistry** 1989 Dec 26;28(26):10043–7

Uptake of lead, chromium, cadmium and cobalt by Cladophora glomerata. Vymazal J. **Bull Environ Contam Toxicol** 1990 Mar;44(3):468–72

Interaction of water-soluble Cu(II), Ni(II), and Co(III) porphyrins with polynucleotides. Bütje K, et al. **J Inorg Biochem** 1990 May;39(1):75–92

Retroviral nucleocapsid protein-metal ion interactions: folding and sequence variants. Green LM, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6403–7

PHARMACOKINETICS

Toxicokinetics of cobalt and the problems of biological monitoring. Roshchin AV, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4):369–77

PHARMACOLOGY

Suppressive action of cobalt on exocytosis and respiratory burst in neutrophils. Elferink JG, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):C859–64

A comparison of cobalt(II) and iron(II) hydroxyl and superoxide free radical formation. Kadiiska MB, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):98–111

Site-specific DNA damage induced by sulfite in the presence of cobalt(II) ion. Role of sulfate radical. Kawanishi S, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3491–6

Effects of spermidine and hexaamminecobalt(III) on thymine imino proton exchange. Plum GE, et al. **Biochemistry** 1990 Jun 26;29(25):5934–40

Cobalt activates potassium conductance in the plasma membrane of cultured renal epithelioid (MDCK)-cells. Jungwirth A, et al. **Biochim Biophys Acta** 1990 Sep 1; 1054(2):143–8

Mechanism of erythropoietin production by cobaltous chloride. Miller ME, et al. **Blood** 1974 Sep;44(3):339–46

Effect of cobalt on Ca2+-Mg2+ ATPase in rat incisor maturation ameloblasts. Salama AH, et al. **Calcif Tissue Int** 1989 Nov;45(5):298–304

Synergistic induction of rat hepatic ornithine decarboxylase by multiple doses of cobalt chloride. Numazawa S, et al. **Chem Biol Interact** 1989;72(3):157–67

Powerful anti-sperm motility action of cobaltous ion and its recovery by a sulfhydryl compound. Kumar GP, et al. **Contraception** 1990 Jun;41(6):633–9

Cobalt stimulates carotid body chemoreceptors. Di Giulio C, et al. **J Appl Physiol** 1990 May;68(5):1844–9

Trace metal interactions in vivo: inorganic cobalt enhances urinary copper excretion without producing an associated zincuresis in rats. Rosenberg DW, et al. **J Nutr** 1989 Sep; 119(9):1259–68

Membrane currents elicited by divalent cations in Xenopus oocytes. Miledi R, et al. **J Physiol (Lond)** 1989 Oct; 417:173–95

Comparison of Mg, Mn, and Co ions affecting the beta-adrenoceptor-mediated membrane response in the guinea-pig taenia caeci. Maruta K, et al. **Jpn J Physiol** 1989;39(5):659–71

Neural mechanisms of chromatic adaptation in L-type cone horizontal cells of the carp retina. Umino O, et al. **Jpn J Physiol** 1989;39(5):725–42

Gene amplification associated with the dominant cob-354 cobalt resistance trait in Dictyostelium discoideum. Jensen SL, et al. **Mol Gen Genet** 1989 Dec;220(1):25–32

Regulation of food intake and body weight by cobalt porphyrins in animals. Galbraith RA, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7653–7

The effect of cobalt on mitochondrial ATP-production in the rat myocardium and skeletal muscle. Clyne N, et al. **Scand J Clin Lab Invest** 1990 Apr;50(2):153–9

Inhibitory effects of cobalt chloride and cinnamaldehyde on 5-azacytidine-induced digital malformations in rats. Kurishita A, et al. **Teratology** 1990 Feb;41(2):161–6

The influence of ascorbic acid and lactose on the interaction of iron with each of cobalt and zinc during intestinal absorption. el-Shobaki FA, et al. **Z Ernahrungswiss** 1989 Dec;28(4):310–5

[Utilization of CoCl2 for karyological studies in teleosts] Cacchi C, et al. **Boll Soc Ital Biol Sper** 1989 Dec; 65(12):1127–31 (Eng. Abstr.) (Ita)

[The effect of cobalt on the dynamics of membrane-bound calcium in the cerebral cortex structures] Samollov MO, et al. **Biofizika** 1989 Nov-Dec;34(6):1024–7 (Eng. Abstr.) (Rus)

[Stimulation of sodium transport by cobalt ions in the skin of amphibia against a background of aldosterone action] Crabbé J, et al. **Fiziol Zh SSSR** 1989 Aug;75(8):1157–61 (Eng. Abstr.) (Rus)

[Experimental study of the activity of a number of enzyme-substrate systems after inhalation of aluminum-cobalt-molybdenum catalyst] Valishin BSh, et al. **Gig Sanit** 1990 Mar;(3):30–2 (Rus)

POISONING

Therapeutic effectiveness of 2,3,2 tet, cyclam and EDTA in toads exposed to lethal doses of nickel and cobalt. Hilmy AM, et al. **Comp Biochem Physiol [C]** 1990;95(1):79–83

Cobalt poisoning in a 6-year-old [letter] Mucklow ES, et al. **Lancet** 1990 Apr 21;335(8695):981

Deaths in lambs following overdose with a copper/cobalt mixture [letter] Macleod NS, et al. **Vet Rec** 1990 Jun 30; 126(26):648–9

THERAPEUTIC USE

Ovine white-liver disease (OWLD) in Norway: clinical symptoms and preventive measures. Ulvund MJ, et al. **Acta Vet Scand** 1990;31(1):53–62

[Radioprotective properties of a Co(III) biocomplex] Islamov IuN, et al. **Radiobiologiia** 1989 Sep-Oct;29(5):644–7 (Eng. Abstr.) (Rus)

TOXICITY

Chemical degeneration of intestinal nerves. Frantzides CT, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):G848–55

Cobalt exposure and cancer risk. Jensen AA, et al. **Crit Rev Toxicol** 1990;20(6):427–37 (92 ref.)

In vitro cytotoxic effects of cobalt-containing dusts on mouse peritoneal and rat alveolar macrophages. Lison D, et al. **Environ Res** 1990 Aug;52(2):187–98

Cobalt-induced inhibition of growth in cyanobacteria Anabaena doliolum and Anacystis nidulans: interaction with sulphur containing amino acids. Singh S. **Indian J Exp Biol** 1989 Dec;27(12):1092–3

Mutagenicity, carcinogenicity and teratogenicity of cobalt metal and cobalt compounds. Léonard A, et al. **Mutat Res** 1990 Jul;239(1):17–27 (119 ref.)

[Occurrence and intake of cobalt in Baltic Sea fishes in Poland] Falandysz J. **Rocz Panstw Zaki Hig** 1989; 40(2):137–40 (Eng. Abstr.) (Pol)

[Decrease in repair processes in lymphocytes of workers exposed to heavy metals] Chopikashvili LV, et al. **Genetika** 1989 Dec;25(12):2247–50 (Eng. Abstr.) (Rus)

COBALT-CHROMIUM ALLOYS see **CHROMIUM ALLOYS**

COBALT ISOTOPES

[14Co-dimetinur distribution in mice in relation to the stage of the development of tumor process] Ostrovskaia LA, et al. **Eksp Onkol** 1990;12(1):70–4 (Eng. Abstr.) (Rus)

COBALT RADIOISOTOPES

Activation of Co released by in-core and ex-core sources. Ocken H. **Health Phys** 1990 Mar;58(3):259–61

Query to 'Activation of Co ...' by Ocken [letter] Sun JB. **Health Phys** 1990 Oct;59(4):484

Haematocytometrical changes in chicken blood to acute 60Co gamma radiation. Malhotra N, et al. **Indian J Exp Biol** 1989 Dec;27(12):1106–8

Human tooth dosimetry for gamma-rays and dental x-rays using ESR. Shimano T, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1035–8

Production of tyrosine isomers in mice by therapeutic doses of 60Co irradiation [letter] Brown RC, et al. **J Chromatogr** 1989 Dec 29;497:360–2

Determination of primary dose in 60Co gamma beam using a small attenuator. Nizin PS, et al. **Med Phys** 1990 Jan-Feb; 17(1):92–4

Chromosome aberrations induced in vitro in human lymphocytes by monoenergetic 2.5 MeV neutrons and 60Co gamma rays. Hellin H, et al. **Strahlenther Onkol** 1990 Aug;166(8):549–53

[Characteristics of osteosarcomas and morphological changes in the rat thymus during the combined action of gamma-radiation and 239Pu] Bukhtoiarova ZM, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):804–8 (Eng. Abstr.) (Rus)

[The effect of external gamma-irradiation on the distribution of deuterium oxide in the rat body] Puliaevskiĭ AG, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):809–11 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Intracavitary irradiation of endometrial carcinoma using a high-intensity 60Co afterloading method. Sipilä P, et al. **Acta Oncol** 1989;28(4):601–5

Radiosurgery for acoustic neurinomas: early experience. Linskey ME, et al. **Neurosurgery** 1990 May;26(5):736–44; discussion 744–5

Irradiation of the mouse lip mucosa with cobalt-60 gamma rays and d(50)+Be neutrons; combination with bleomycin. Scalliet P, et al. **Strahlenther Onkol** 1990 Jan;166(1):114

Vascular and cellular damage in a murine tumour during fractionated treatment with radiation and hyperthermia. Zywietz F. **Strahlenther Onkol** 1990 Jul;166(7):493–501

Dosimetry of high dose rate intracavitary radiation therapy using Co-60 and Ir-192 sources. Lin FJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):381–6

[Radiation load of patients under maximum dose radiotherapy (Ra226 and Co60) of cervical cancer. Comparison of three techniques of external field irradiation] Kożuch-Gdak W. **Ann Univ Mariae Curie Sklodowska [Med]** 1985;40:67–71 (Eng. Abstr.) (Pol)

[Analysis and optimization of the integral dose in radiotherapy of neoplasms using the "box" technique] Niemierko A, et al. **Nowotwory** 1989 Jan-Mar;39(1):60–4 (Eng. Abstr.) (Pol)

[Ultrastructural changes in neurons of the arcuate nucleus-median eminence complex in rats irradiated with carbon ions and gamma rays] Gitsov LG, et al.

Kosm Biol Aviakosm Med 1990 Jan–Feb;24(1):34–6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Chromosome aberrations in patients treated with telecobalt therapy for glioblastoma. Léonard A, et al. **Strahlenther Onkol** 1990 Jul;166(7):466–9

[Pulmonary complications after radiotherapy in lung cancer] Li YM, et al. **Rinsho Hoshasen** 1989 Jul;34(7):827–30 (Eng. Abstr.) **(Jpn)**

[Esophagotracheal fistula as a complication of radiotherapy of lung cancer] Kwiek A, et al. **Pneumonol Pol** 1990 Jan; 58(1):38–42 (Eng. Abstr.) **(Pol)**

[Use of the greater omentum in the treatment of post–radiation necrosis of the whole thickness of the chest wall] Nagadowska M, et al. **Pol Tyg Lek** 1989 Jan 9–16; 44(2–3):53–4 (Eng. Abstr.) **(Pol)**

DIAGNOSTIC USE

Radioactive metal complexes with affinity for tumors. II. Biodistribution of radioactivity in cellular and subcellular fractions of tumor tissues. Karube Y, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1874–6

A comparison of cobalt (57Co) bleomycin scanning and contrast–enhanced CT scanning for assessment of the mediastinum in lung cancer. Wathen CG, et al. **Chest** 1990 May;97(5):1148–51

STANDARDS

Radioactivity variations in cobalt–57 cyanocobalamin capsules [letter; comment] Silberstein EB. **J Nucl Med** 1990 Jan;31(1):128 Comment on: J Nucl Med 1989 Feb;30(2):265.

THERAPEUTIC USE

Prognosis of endometrial carcinoma stage I in two Swedish regions. A study with special regard to the effects of intracavitary irradiation with high dose–rate afterloading technique or with low dose–rate radium. Sorbe B, et al. **Acta Oncol** 1990;29(1):29–37

Stereotactic radiosurgery. Perry AM, et al. **Australas Phys Eng Sci Med** 1989 Dec;12(4):233–40

Angiosarcoma arising in an irradiated breast. A case report and review of the literature. Givens SS, et al. **Cancer** 1989 Dec 1;64(11):2214–6 (14 ref.)

Treatment planning for gamma knife radiosurgery with multiple isocenters. Flickinger JC, et al. **Int J Radiat Oncol Biol Phys** 1990 Jun;18(6):1495–501

Shielding requirements on–site loading and acceptance testing on the Leksell gamma knife. Maitz AH, et al. **Int J Radiat Oncol Biol Phys** 1990 Feb;18(2):469–76

The role of limited surgery with irradiation in primary treatment of ductal in situ breast cancer. Stotter AT, et al. **Int J Radiat Oncol Biol Phys** 1990 Feb;18(2):283–7

Physics of gamma knife approach on convergent beams in stereotactic radiosurgery. Wu A, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr;18(4):941–9

Gamma knife radiosurgery for intracranial arteriovenous malformations in childhood and adolescence. Altschuler EM, et al. **Pediatr Neurosci** 1989;15(2):53–61

Ocular melanoma: total dose and dose rate effects with Co–60 plaque therapy. Beitler JJ, et al. **Radiology** 1990 Jul; 176(1):275–8

The effect of 3–aminobenzamide in the radiation response of three human cervix carcinoma xenografts. Kelland LR, et al. **Radiother Oncol** 1989 Aug;15(4):363–9

Gamma knife radiosurgery: current status and review. Goodman ML. **South Med J** 1990 May;83(5):551–4 (28 ref.)

Xenografts of five human leiomyosarcomas: radiation response after 60cobalt– and d(14)+Be neutron single doses. Budach V, et al. **Strahlenther Onkol** 1990 Jan; 166(1):14–7

Relative biological effectiveness (RBE) of p(26) + Be neutrons from the King Faisal Specialist Hospital and Research Centre CS–30 cyclotron measured by testis weight loss. Feola JM, et al. **Strahlenther Onkol** 1989 Nov; 165(11):817–23

Remote afterloading transurethral radiotherapy for prostatic cancer. Harada T, et al. **Urol Int** 1990;45(1):41–3

[Comparison of absorbed doses from cobalt irradiation sources] Wagner R, et al. **Cesk Radiol** 1989 Aug; 43(4):267–72 (Eng. Abstr.) **(Cze)**

[Irradiation for the prevention of heterotopic ossification following surgery of the hip and knee joint. Report of initial experiences] Braun W. **Chirurg** 1989 Nov;60(11):795–800 (Eng. Abstr.) **(Ger)**

[Treatment results of 60–cobalt radiotherapy of epipharyngeal tumors 1978 to 1988] Todorov J, et al. **Radiobiol Radiother (Berl)** 1989;30(4):350–3 **(Ger)**

[Cassette–film combinations for the imaging verification of irradiation with 60Co photons up to 42 MV and electrons of 5 to 40 MeV] Kirschner H, et al. **Strahlenther Onkol** 1990 Apr;166(4):285–91 **(Ger)**

[A risk score for surgically treated stage Ib cervix carcinoma and its significance for postoperative irradiation] Kucera H, et al. **Wien Klin Wochenschr** 1990 Aug 3;102(15):432–7 (Eng. Abstr.) **(Ger)**

[Digital radiography with phosphorus memory: verification of the centering of the patient in high–energy radiotherapy] Crespi A, et al. **Radiol Med (Torino)** 1989 Nov;78(5):452–4 (Eng. Abstr.) **(Ita)**

[Radiotherapy of the breast after conservative surgery for primary carcinoma. Irradiation technic with matched fields] Latini P, et al. **Radiol Med (Torino)** 1989 Nov; 78(5):435–40 (Eng. Abstr.) **(Ita)**

[Analysis of prognostic factors in 106 cases of carcinoma of the rhinopharynx treated with cobalt teletherapy] Zini G, et al. **Radiol Med (Torino)** 1989 Nov;78(5):430–4 (Eng. Abstr.) **(Ita)**

[Brachytherapy of prostatic carcinoma, 60Co high dose rate, remote after–loading methods] Kosuda S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Apr 25; 50(4):429–31 (Eng. Abstr.) **(Jpn)**

[Comparison of the effectiveness of different methods of irradiation using metronidazole as a radiation–sensitizing agent in patients with laryngeal cancer. Controlled clinical stud.es] Galecki J, et al. **Nowotwory** 1989 Apr–Jun; 39(2):111–5 (Eng. Abstr.) **(Pol)**

[Results of adjuvant radiotherapy in patients with highly differentiated cerebral astrocytoma after non–radical surgery] Gliński B. **Nowotwory** 1989 Jul–Dec;39(3–4):191–5 (Eng. Abstr.) **(Pol)**

[Investigation of total body irradiation in patients with advanced centrocytic–centroblastic and centroblastic lymphomas. I. Therapeutic technics] Migdal K. **Nowotwory** 1990 Jan–Mar;40(1):27–33 (Eng. Abstr.) **(Pol)**

[Irradiation of patients with ovarian cancer applying the moving strip technique. Preliminary estimation of tolerance and efficacy] Reinfuss M, et al. **Nowotwory** 1989 Jan–Mar; 39(1):53–9 (Eng. Abstr.) **(Pol)**

[Use of the linear–square model for evaluation of the distribution of equivalent doses of electron irradiation] Slosarek K. **Nowotwory** 1989 Apr–Jun;39(2):121–6 (Eng. Abstr.) **(Pol)**

[Radiotherapy of tonsillar neoplasms. Evaluation of treatment results and late complications] Zajonc–Slowakiewicz A, et al. **Nowotwory** 1989 Jan–Mar;39(1):44–52 (Eng. Abstr.) **(Pol)**

[The AGAT–R2, a gamma therapeutic apparatus with programmed control] Mardynskiĭ IuS, et al. **Med Radiol (Mosk)** 1989 Oct;34(10):49–52 (Eng. Abstr.) **(Rus)**

[Intracavitary radiotherapy of uterine cancer under conditions of computerized planning and realization of therapeutic programs on the AGAT–VU apparatus] Titova VA, et al. **Med Radiol (Mosk)** 1989 Sep;34(9):38–49 **(Rus)**

[Individualization of the indications for the postoperative tele–irradiation of patients with I–stage endometrial cancer] Bokhman IaV, et al. **Vopr Onkol** 1989;35(9):1093–7 (Eng. Abstr.) **(Rus)**

[Cobalt therapy in the treatment of Osler–Rendu disease. Apropos of two cases] Escalante A, et al. **Acta Otorrinolaringol Esp** 1988 Jan–Feb;39(1):57–9 (Eng. Abstr.) **(Spa)**

COBAMIDES

Nanosecond transient absorption spectroscopy of coenzyme B12. Quantum yields and spectral dynamics. Chen E, et al. **J Biol Chem** 1990 Aug 5;265(22):12987–94

BIOSYNTHESIS

Mutations affecting regulation of cobinamide biosynthesis in Salmonella typhimurium. Andersson DI, et al. **J Bacteriol** 1989 Dec;171(12):6726–33

Redox regulation of the genes for cobinamide biosynthesis in Salmonella typhimurium. Andersson DI, et al. **J Bacteriol** 1989 Dec;171(12):6734–9

ISOLATION & PURIFICATION

Identification of phenolyl cobamide from the homoacetogenic bacterium Sporomusa ovata. Stupperich E, et al. **Eur J Biochem** 1989 Dec 22;186(3):657–61

METABOLISM

Methylmalonic aciduria due to a new defect in adenosylcobalamin accumulation by cells. Cooper BA, et al. **Am J Hematol** 1990 Jun;34(2):115–20

Cobamide–dependent methyl transferases. Matthews RG, et al. **Biofactors** 1990 Jul;2(3):147–52 (57 ref.)

PHARMACOLOGY

Essential histidine residues in coenzyme B12–dependent diol dehydrase: dye–sensitized photooxidation and ethoxycarbonylation. Kuno S, et al. **Arch Biochem Biophys** 1990 Feb 15;277(1):211–7

Adenosylcobalamin–dependent methylmalonyl–CoA mutase from Propionibacterium shermanii. Active holoenzyme produced from Escherichia coli. McKie N, et al. **Biochem J** 1990 Jul 15;269(2):293–8

COBRA NEUROTOXINS see under **COBRA VENOMS**

COBRA VENOMS

Effect of modification of tyrosine residues in cytotoxin–1 from Indian cobra venom. (Naja naja naja). Kumar TK, et al. **Biochem Int** 1990;20(5):879–85

Role of cationic residues in cytolytic activity: modification of lysine residues in the cardiotoxin from Naja nigricollis venom and correlation between cytolytic and antiplatelet activity. Kini RM, et al. **Biochemistry** 1989 Nov 14; 28(23):9209–15

Amino acid sequences of cytotoxin–like basic proteins derived from cobra venoms. Inoue S, et al. **FEBS Lett** 1989 Nov 6;257(2):319–23

Crystallization and preliminary x–ray diffraction study of neurotoxin–I from Naja naja oxiana venom. Mikhailov AM, et al. **FEBS Lett** 1990 Aug 20;269(1):255–7

Interaction of central Asian cobra (Naja naja oxiana Eichwald) venom cytotoxins with phospholipase D. Khole V. **Indian J Biochem Biophys** 1989 Aug;26(4):275–7

Differing stabilities of snake venom cardiotoxins in acidic aqueous acetonitrile. Osthoff G. **Int J Biochem** 1990; 22(1):7–9

Sequence characterization of venom toxins from Thailand cobra. Chiou SH, et al. **Int J Pept Protein Res** 1989 Aug; 34(2):148–52

Cardiotoxin VII4 from Naja mossambica mossambica. The refined crystal structure. Rees B, et al. **J Mol Biol** 1990 Jul 5;214(1):281–97

Step–wise thermal denaturation of cobrotoxin, a snake venom neurotoxin from Naja naja atra: a proton nuclear magnetic resonance study. Endo T, et al. **J Protein Chem** 1989 Aug; 8(4):575–81

Phospholipase A2 from cobra (Naja naja naja) venom. Primary structure and subspecies variation. Shafqat J, et al. **Protein Seq Data Anal** 1989 Dec;2(6):451–2

ADMINISTRATION & DOSAGE

Enhancement of antigen–induced bronchoconstriction in the guinea pig after intravascular complement activation with cobra venom factor. Regal JF. **Int Arch Allergy Appl Immunol** 1990;91(1):86–94

ANALYSIS

Intercomparison of small biomolecules by gel filtration and small angle scattering. Martel P, et al. **Anal Biochem** 1990 May 1;186(2):350–4

Effect of modification of tyrosine residues in cytotoxin–1 from Indian cobra venom. (Naja naja naja). Kumar TK, et al. **Biochem Int** 1990;20(5):879–85

Isolation and characterization of an unusual form of L–amino acid oxidase from King cobra (Ophiophagus hannah) venom. Tan NH, et al. **Biochem Int** 1989 Oct;19(4):937–44

Studies on the status of lysine residues in phospholipase A2 from Naja naja atra (Taiwan cobra) snake venom. Yang CC, et al. **Biochem J** 1989 Sep 15;262(3):855–60

Amino acid sequence and circular dichroism of Indian cobra (Naja naja naja) venom acidic phospholipase A2. Davidson FF, et al. **Biochim Biophys Acta** 1990 Jan 19;1037(1):7–15

Characterization of a cytotoxin–like basic protein from the cobra (Naja naja naja) venom. Shafqat J, et al. **FEBS Lett** 1990 Feb 26;261(2):245–6

Purification and characterization of two acidic phospholipase A2 enzymes from king cobra (Ophiophagus hannah) snake venom. Tan NH, et al. **Int J Biochem** 1990;22(5):481–7

Binding and inhibition studies on lipocortins using phosphatidylcholine vesicles and phospholipase A2 from snake venom, pancreas, and a macrophage–like cell line. Davidson FF, et al. **J Biol Chem** 1990 Apr 5;265(10):5602–9

The active site and partial sequence of cobra venom acetylcholinesterase. Weise C, et al. **J Protein Chem** 1990 Feb;9(1):53–7

The inhibition of clotting complexes of the extrinsic coagulation cascade by the phospholipase A2 isoenzymes from Naja nigricollis venom. Stefansson S, et al. **Thromb Res** 1989 Aug 15;55(4):481–91

Isolation and characterization of a hemorrhagin from the venom of Ophiophagus hannah (king cobra). Tan NH, et al. **Toxicon** 1990;28(4):385–92

[Major complement inhibiting factors from the venom of the Central Asian cobra Naja naja oxiana] Kozlov LV, et al. **Biokhimiia** 1989 Nov;54(11):1919–26 (Eng. Abstr.) **(Rus)**

[Affinity chromatography for purification of phospholipase A2 from the venom of Central Asian cobra] Salikhova ZT, et al. **Prikl Biokhim Mikrobiol** 1989 Nov–Dec;25(6):747–51 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Effects of divalent cations on snake venom cardiotoxin–induced hemolysis and 3H–deoxyglucose–6–phosphate release from human red blood cells. Jiang MS, et al. **Toxicon** 1989;27(12):1297–305

GENETICS

Amino acid sequence of nerve growth factor purified from the venom of the Formosan cobra Naja naja atra. Oda T, et al. **Biochem Int** 1989 Oct;19(4):909–17

A recombinant snake neurotoxin generated by chemical cleavage of a hybrid protein recovers full biological properties. Boyot P, et al. **FEBS Lett** 1990 Jun 18; 266(1–2):87–90

IMMUNOLOGY

Far–u.v. CD–spectroscopy and immunological properties of synthetic sequential peptides derived from cardiotoxin VII1 of Naja nivea venom: an amphipathic alpha–helix formed by sequence 15–25 of a beta–protein. Osthoff G. **Int J Biochem** 1989;21(12):1365–8

A monoclonal antibody recognizing a conserved epitope in a group of phospholipases A2. Mollier P, et al. **Mol Immunol** 1990 Jan;27(1):7–15

ISOLATION & PURIFICATION

[Complement-inhibiting acidic factors from the venom of Central Asian cobra Naja naja oxiana] Shobonov BB, et al. **Biokhimiia** 1989 Dec;54(12):2054–60 (Eng. Abstr.) **(Rus)**

METABOLISM

Role of Ca2+ in the substrate binding and catalytic functions of snake venom phospholipases A2. Teshima K, et al. **J Biochem (Tokyo)** 1989 Sep;106(3):518–27

Orientation of cobra alpha-toxin on the nicotinic acetylcholine receptor. Fluorescence studies. Johnson DA, et al. **J Biol Chem** 1990 May 5;265(13):7360–8

Recognition of the acetylcholine receptor binding site of a long-chain neurotoxin by toxin-specific monoclonal antibodies. Charpentier I, et al. **J Mol Recognit** 1990 Apr; 3(2):74–81

A monoclonal antibody to a synthetic fragment of rabies virus glycoprotein binds ligands of the nicotinic cholinergic receptor. Rustici M, et al. **J Mol Recognit** 1989 Sep; 2(2):51–5

Topography of toxin-acetylcholine receptor complexes by using photoactivatable toxin derivatives. Chatrenet B, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3378–82

[Binding cytotoxin molecules from the venom of the Central Asian cobra with model membranes] Aripov TF, et al. **Biofizika** 1989 Jul–Aug;34(4):706–8 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Possible involvement of actomyosin ADP complex in regulation of Ca2+ sensitivity in alpha-toxin permeabilized smooth muscle. Nishimura J, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):408–15

The anticoagulant activity of Malayan cobra (Naja naja sputatrix) venom and venom phospholipase A2 enzymes. Tan NH, et al. **Biochem Int** 1989 Oct;19(4):803–10

Inhibition of endotoxic lipopolysaccharide-mediated platelet aggregation by cobra venom anticomplementary factor. Fong JS, et al. **Blood** 1974 Sep;44(3):399–409

In vitro cytotoxicity of Rhodnius prolixus hemolytic factor and mellitin towards different trypanosomatids. Azambuja P, et al. **Braz J Med Biol Res** 1989;22(5):597–9

Central Asian cobra venom cytotoxins-induced aggregation, permeability and fusion of liposomes. Aripov TF, et al. **Gen Physiol Biophys** 1989 Oct;8(5):459–73

Effect of envenomation on enzymes of brain of albino rats. Sahu JK, et al. **Indian J Exp Biol** 1989 Sep;27(9):831–2

Ablation of natural killer cell function by soluble cardiotoxin. Xiao LJ, et al. **Int J Immunopharmacol** 1990;12(3):247–54

Factors in snake venoms that increase capillary permeability. Miller RA, et al. **J Pharm Pharmacol** 1989 Nov; 41(11):792–4

Interactions in red blood cells between fatty acids and either snake venom cardiotoxin or halothane. Fletcher JE, et al. **Toxicon** 1990;28(6):657–67

[The fusogenic properties of the cytotoxins of cobra venom in a model membrane system] Gasanov SE, et al. **Biol Nauki** 1990;(2):42–50 (Eng. Abstr.) **(Rus)**

POISONING

Tourniquet application after cobra bite: delay in the onset of neurotoxicity and the dangers of sudden release. Watt G, et al. **Am J Trop Med Hyg** 1988 May;38(3):618–22

Bites by the white-lipped pit viper (Trimeresurus albolabris) and other species in Hong Kong. A survey of 4 years' experience at the Prince of Wales Hospital. Cockram CS, et al. **J Trop Med Hyg** 1990 Apr;93(2):79–86

Envenoming by the common krait (Bungarus caeruleus) and Sri Lankan cobra (Naja naja naja): efficacy and complications of therapy with Haffkine antivenom. Theakston RD, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):301–8

TOXICITY

Lung injury caused by cobra venom factor is reduced in rats raised on an essential fatty acid–deficient diet. Morganroth ML, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1192–9

On the mode of action of basic phospholipase A2 from Naja nigricollis venom. Chwetzoff S. **Biochim Biophys Acta** 1990 Aug 6;1045(3):285–90

Selective cytolysis by a protein toxin as a consequence of direct interaction with the lymphocyte plasma membrane. Hinman CL, et al. **Toxicol Appl Pharmacol** 1990 Jun 15; 104(2):290–300

COCA

The leaves of Erythroxylon coca [editorial] Aronson SM. **R I Med J** 1990 Jun;73(6):229–30

Coca in the Andes: traditions, functions and problems. Heath DB. **R I Med J** 1990 Jun;73(6):237–41

COCAINE

The "cocaine body packer" syndrome. Case report and review of the literature. Geyskens P, et al. **Acta Chir Belg** 1989 Jul–Aug;89(4):201–3

Cocaine and crack users compared. Ringwalt CL, et al. **Adolescence** 1989 Winter;24(96):851–9

The diagnosis of alcohol and cannabis dependence in cocaine dependence. Miller NS, et al. **Adv Alcohol Subst Abuse** 1990;8(3–4):33–42

CT demonstration of ingested cocaine packets [letter] Vanarthos WJ, et al. **AJR Am J Roentgenol** 1990 Aug; 155(2):419–20

Cocaine update: abuse and therapy. DiGregorio GJ. **Am Fam Physician** 1990 Jan;41(1):247–50 (15 ref.)

Quantitative analysis of amounts of coronary arterial narrowing in cocaine addicts. Dressler FA, et al. **Am J Cardiol** 1990 Feb 1;65(5):303–8

Crack cocaine. A new danger for children [editorial] Heagarty MC. **Am J Dis Child** 1990 Jul;144(7):756–7

Maternal abuse of cocaine and heroin [letter; comment] Maynard EC. **Am J Dis Child** 1990 May;144(5):520–1 Comment on: Am J Dis Child 1989 Aug;143(8):905–10.

Cocaine abuse and violent death. Budd RD. **Am J Drug Alcohol Abuse** 1989;15(4):375–82

Chronic cocaine abuse associated with dilated cardiomyopathy. Hogya PT, et al. **Am J Emerg Med** 1990 May;8(3):203–4

Illicit drug use and the risk of new-onset seizures. Ng SK, et al. **Am J Epidemiol** 1990 Jul;132(1):47–57

Vascular changes in the nasal submucosa of chronic cocaine addicts. Chow JM, et al. **Am J Forensic Med Pathol** 1990 Jun;11(2):136–43

A cocaine body packer with normal abdominal plain radiograms. Value of drug detection in urine and contrast study of the bowel. Gherardi R, et al. **Am J Forensic Med Pathol** 1990 Jun;11(2):154–7

Cocaine-induced ischemic myocardial disease. Roh LS, et al. **Am J Forensic Med Pathol** 1990 Jun;11(2):130–5

Neonatal intestinal perforation: the "crack" connection. Miller BM, et al. **Am J Gastroenterol** 1990 Jun;85(6):767–9

Thrombocytopenic purpura in HIV-seronegative users of intravenous cocaine. Koury MJ. **Am J Hematol** 1990 Oct; 35(2):134–5

Cocaine-related medical problems: consecutive series of 233 patients. Brody SL, et al. **Am J Med** 1990 Apr;88(4):325–31

Cocaine abuse and acquired immunodeficiency syndrome: a tale of two epidemics [editorial] Lerner WD. **Am J Med** 1989 Dec;87(6):661–3

Upper extremity deep venous thrombosis: increased prevalence due to cocaine abuse. Lisse JR, et al. **Am J Med** 1989 Oct;87(4):457–8

Cocaine-associated asthma. Rubin RB, et al. **Am J Med** 1990 Apr;88(4):438–9

Presidential address of the SSCI. Metabolic and social consequences of cocaine abuse. Kokko JP. **Am J Med Sci** 1990 Jun;299(6):361–5

Hemolytic-uremic syndrome following "crack" cocaine inhalation. Tumlin JA, et al. **Am J Med Sci** 1990 Jun; 299(6):366–71

Crack. The nation's emergency. Horrocks MA. **Am J Nurs** 1990 Apr;90(4):42–3

Cocaine. House MA. **Am J Nurs** 1990 Apr;90(4):40–5

Nursing at the front—of the cocaine wars [editorial] Mallison MB. **Am J Nurs** 1990 Apr;90(4):7

Postpartum cardiovascular complications after bromocriptine and cocaine use. Bakht FR, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1065–6

Lack of specific placental abnormality associated with cocaine use. Gilbert WM, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):998–9

Prevalence of use of cocaine and other substances in an obstetric population. Matera C, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):797–801

The relationship of cocaine use to syphilis and human immunodeficiency virus infections among inner city parturient women. Minkoff HL, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):521–6

Cardiac screening for pregnant intravenous drug abusers. Henderson CE, et al. **Am J Perinatol** 1989 Oct;6(4):397–9

Cocaine abuse among schizophrenic patients. Brady K, et al. **Am J Psychiatry** 1990 Sep;147(9):1164–7

Lithium treatment for cocaine abusers with bipolar spectrum disorders. Nunes EV, et al. **Am J Psychiatry** 1990 May; 147(5):655–7

A case in which carbamazepine attenuated cocaine "rush" [letter] Sherer MA, et al. **Am J Psychiatry** 1990 Jul; 147(7):950

Serum prolactin levels during extended cocaine abstinence. Swartz CM, et al. **Am J Psychiatry** 1990 Jun;147(6):777–9

Cocaine and the risk of low birth weight. Petitti DB, et al. **Am J Public Health** 1990 Jan;80(1):25–8

Risk factors for syphilis: cocaine use and prostitution. Rolfs RT, et al. **Am J Public Health** 1990 Jul;80(7):853–7

TAC topical anesthesia produces positive urine tests for cocaine. Altieri M, et al. **Ann Emerg Med** 1990 May; 19(5):577–9

Local anesthesia in pediatric patients: topical TAC versus lidocaine. Anderson AB, et al. **Ann Emerg Med** 1990 May; 19(5):519–22

Investigation of cocaine-related seizures showing unsuspected brain tumors [letter] Seaman M, et al. **Ann Emerg Med** 1990 Jun;19(6):733–4

Acute cocaine abuse associated with cerebral infarction. Seaman ME. **Ann Emerg Med** 1990 Jan;19(1):34–7

Myocardial infarction during cocaine withdrawal [letter; comment] Del Aguila C, et al. **Ann Intern Med** 1990 May 1;112(9):712 Comment on: Ann Intern Med 1989 Dec 1;111(11):876–80.

Complex partial status epilepticus provoked by "crack" cocaine. Ogunyemi AO, et al. **Ann Neurol** 1989 Dec; 26(6):785–6

Acute gastroduodenal perforations associated with use of crack. Lee HS, et al. **Ann Surg** 1990 Jan;211(1):15–7 (18 ref.)

Neurologic consequences of cocaine use. Rowbotham MC, et al. **Annu Rev Med** 1990;41:417–22 (35 ref.)

Changes in mood, craving, and sleep during short-term abstinence reported by male cocaine addicts. A controlled, residential study. Weddington WW, et al. **Arch Gen Psychiatry** 1990 Sep;47(9):861–8

Cocaine and marijuana use by medical students before and during medical school. Schwartz RH, et al. **Arch Intern Med** 1990 Apr;150(4):883–6

Treatment of cocaine abuse with buprenorphine. Kosten TR, et al. **Biol Psychiatry** 1989 Oct;26(6):637–9

Cocaine and crack [letter; comment] Brewer C. **BMJ** 1989 Sep 23;299(6702):792 Comment on: BMJ 1989 Aug 5;299(6695):337–8.

Cocaine and crack [letter] Patel AR, et al. **BMJ** 1989 Sep 30;299(6703):856

Cocaine and crack [see comments]. Strang J, et al. **BMJ** 1989 Aug 5;299(6695):337–8 (21 ref.) Comment in: BMJ 1989 Sep 23;299(6702):792.

The drug market position of cocaine among young adults in Sydney. Homel P, et al. **Br J Addict** 1990 Jul;85(7):891–7

Hypomanic personality trait in cocaine addiction. Lemere F, et al. **Br J Addict** 1990 Apr;85(4):575–6

The diagnosis of alcohol and cannabis dependence in cocaine dependents and alcohol dependence in their families. Miller NS, et al. **Br J Addict** 1989 Dec;84(12):1491–8

Crack and cocaine use in south London drug addicts: 1987–1989. Strang J, et al. **Br J Addict** 1990 Feb;85(2):193–6

Intravenous cocaine abuse and subarachnoid haemorrhage: effect on outcome. Simpson RK Jr, et al. **Br J Neurosurg** 1990;4(1):27–30

Cocaine reinforcement and extracellular dopamine overflow in rat nucleus accumbens: an in vivo microdialysis study. Hurd YL, et al. **Brain Res** 1989 Sep 25;498(1):199–203

Effects of prenatal exposure to cocaine or related drugs on rat developmental and neurological indices. Henderson MG, et al. **Brain Res Bull** 1990 Feb;24(2):207–12

Epidemiology of drug abuse in the United States: a summary of methods and findings. Kozel NJ. **Bull Pan Am Health Organ** 1990;24(1):53–62

Frontiers in cocaine research. Symposium of the Canadian Federation of Biological Societies. Québec, Québec, Canada, June 15, 1988. Proceedings. **Can J Physiol Pharmacol** 1989 Sep;67(9):1153–81 **(Eng, Fre)**

Alloimmunization and intravenous drug abuse [see comments] Chin-Yee I, et al. **Can Med Assoc J** 1989 Dec 1;141(11):1160–1 Comment in: Can Med Assoc J 1990 Mar 1;142(5):439.

Crack users: the new AIDS risk group? Fullilove RE, et al. **Cancer Detect Prev** 1990;14(3):363–8

Pulmonary edema after freebase cocaine smoking—not due to an adulterant. Kline JN, et al. **Chest** 1990 Apr; 97(4):1009–10

Hypodermic needle aspiration in a freebase cocaine abuser [letter] Lacagnina S, et al. **Chest** 1990 May;97(5):1275–6

Pulmonary artery medial hypertrophy in cocaine users without foreign particle microembolization. Murray RJ, et al. **Chest** 1989 Nov;96(5):1050–3

Pulmonary talc granulomatosis in a cocaine sniffer. Oubeid M, et al. **Chest** 1990 Jul;98(1):237–9

Unrecognized left ventricular dysfunction in an apparently healthy cocaine abuse population. Bertolet BD, et al. **Clin Cardiol** 1990 May;13(5):323–8

Adolescent cocaine abuse. Addictive potential, behavioral and psychiatric effects. Estroff TW, et al. **Clin Pediatr (Phila)** 1989 Dec;28(12):550–5

Freebase cocaine and memory. Manschreck TC, et al. **Compr Psychiatry** 1990 Jul–Aug;31(4):369–75

Illicit price of cocaine in two eras: 1908–14 and 1982–89. Musto DF. **Conn Med** 1990 Jun;54(6):321–6

Crack-induced rhabdomyolysis. Steingrub JS, et al. **Crit Care Med** 1989 Oct;17(10):1073–4

Concurrent and simultaneous use of alcohol with cocaine: results of national survey. Grant BF, et al. **Drug Alcohol Depend** 1990 Feb;25(1):97–104

Anxiety and anger among abusers of different substances. Walfish S, et al. **Drug Alcohol Depend** 1990 Jun;25(3):253–6

Cocaine. Mueller PD, et al. **Emerg Med Clin North Am** 1990 Aug;8(3):481–93 (61 ref.)

Endocarditis in intravenous drug abusers. Roberts R, et al. **Emerg Med Clin North Am** 1990 Aug;8(3):665–81 (106 ref.)

Association of cocaine use with sperm concentration, motility, and morphology. Bracken MB, et al. **Fertil Steril** 1990 Feb;53(2):315–22

Successful endoscopic retrieval of a cocaine packet from the stomach. Sherman A, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2):152–4

Street drugs. **Hawaii Med J** 1989 Nov;48(11):448–95

Cocaine abuse and its treatment. Hicks RD. **Hawaii Med J** 1989 Nov;48(11):462, 483–4

Medical complications of the use of cocaine. Wallach SJ.

Hawaii Med J 1989 Nov;48(11):461–2
Acute pleurisy in an intravenous drug abuser. Glatt AE. **Hosp Pract [Off]** 1990 Feb 15;25(2):155, 158, 160–2 (14 ref.)
Client demographics and outcome in outpatient cocaine treatment. Means LB, et al. **Int J Addict** 1989 Aug; 24(8):765–83
A tragedy unfolds. **Iowa Med** 1990 May;80(5):282
Cocaine use and cerebrovascular disease: two cases of ischemic stroke in young adults. Guidotti M, et al. **Ital J Neurol Sci** 1990 Apr;11(2):153–5
Nutritional effects of marijuana, heroin, cocaine, and nicotine. Mohs ME, et al. **J Am Diet Assoc** 1990 Sep;90(9):1261–7 (67 ref.)
Women and crack addiction [letter] Sher J. **J Am Med Wom Assoc** 1989 Nov–Dec;44(6):166
Prolonged presence of metabolite in urine after compulsive cocaine use. Burke WM, et al. **J Clin Psychiatry** 1990 Apr; 51(4):145–8
Validity of the MCMI Drug Abuse Scale with drug abusing and psychiatric samples. Calsyn DA, et al. **J Clin Psychol** 1990 Mar;46(2):244–6
MCMI comparisons of cocaine abusers and heroin addicts. Craig RJ, et al. **J Clin Psychol** 1990 Mar;46(2):230–7
Personality disorders classification and symptoms in cocaine and opioid addicts. Malow RM, et al. **J Consult Clin Psychol** 1989 Dec;57(6):765–7
Severe acid–base abnormalities associated with cocaine abuse. Drake TR, et al. **J Emerg Med** 1990 May–Jun;8(3):331–4
Barotrauma related to inhalational drug abuse. Seaman ME. **J Emerg Med** 1990 Mar–Apr;8(2):141–9
AIDS and cocaine: a deadly combination facing the primary care physician. Weinstein SP, et al. **J Fam Pract** 1990 Sep; 31(3):253–4
Cocaine in Wayne County Medical Examiner's cases. Hood I, et al. **J Forensic Sci** 1990 May;35(3):591–600
The cocaine body–packer syndrome: evaluation of a method of contrast study of the bowel. Marc B, et al. **J Forensic Sci** 1990 Mar;35(2):345–55
Cocaine injection and ethnicity in parenteral drug users during the early years of the human immunodeficiency virus (HIV) epidemic in New York City. Novick DM, et al. **J Med Virol** 1989 Nov;29(3):181–5
Psychopathology among cocaine abusers entering treatment. Kleinman PH, et al. **J Nerv Ment Dis** 1990 Jul;178(7):442–7
Neurobiology of abused drugs. Opioids and stimulants. Kosten TR. **J Nerv Ment Dis** 1990 Apr;178(4):217–27 (128 ref.)
Opsoclonus–myoclonus following the intranasal usage of cocaine [letter] Scharf D. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1447–8
Prenatal cocaine use. Effects on perinatal outcome. Janke JR. **J Nurse Midwifery** 1990 Mar–Apr;35(2):74–7
Cocaine use during pregnancy. Research findings and clinical implications. Lynch M, et al. **J Obstet Gynecol Neonatal Nurs** 1990 Jul–Aug;19(4):285–92 (25 ref.)
Cocaine babies in Oklahoma. Giacoia GP. **J Okla State Med Assoc** 1990 Feb;83(2):64–7
Echoencephalographic findings in neonates associated with maternal cocaine and methamphetamine use: incidence and clinical correlates. Dixon SD, et al. **J Pediatr** 1989 Nov; 115(5 Pt 1):770–8
Validity of self–reporting of marijuana and cocaine use among pregnant adolescents. Zuckerman B, et al. **J Pediatr** 1989 Nov;115(5 Pt 1):812–5
Cocaine and pregnancy—a lethal combination. Pitts KS, et al. **J Perinatol** 1990 Jun;10(2):180–2 (22 ref.)
Neurobehavioral treatment for cocaine dependency. Rawson RA, et al. **J Psychoactive Drugs** 1990 Apr–Jun;22(2):159–71 (25 ref.)
Treating crack cocaine dependence: the critical role of relapse prevention. Wallace BC. **J Psychoactive Drugs** 1990 Apr–Jun;22(2):149–58 (43 ref.)
Abstinence and relapse in outpatient cocaine addicts. Washton AM, et al. **J Psychoactive Drugs** 1990 Apr–Jun; 22(2):135–47 (19 ref.)
Perinatal implications of cocaine exposure. Burkett G, et al. **J Reprod Med** 1990 Jan;35(1):35–42
Nasal cocaine abuse causing an aggressive midline intranasal and pharyngeal destructive process mimicking midline reticulosis and limited Wegener's granulomatosis. Daggett RB, et al. **J Rheumatol** 1990 Jun;17(6):838–40
Medical complications of cocaine and other illicit drug abuse simulating rheumatic disease. Lie JT. **J Rheumatol** 1990 Jun;17(6):736–7
Improvement in psychological functioning among drug abusers: inpatient treatment compared to outpatient methadone maintenance. Craig RJ, et al. **J Subst Abuse Treat** 1990;7(1):11–9
Chemical aversion therapy in the treatment of cocaine dependence as part of a multimodal treatment program: treatment outcome. Frawley PJ, et al. **J Subst Abuse Treat** 1990;7(1):21–9
A treatment crisis: cocaine use by clients in methadone maintenance programs. Kolar AF, et al. **J Subst Abuse Treat** 1990;7(2):101–7
Chasing the dragon: the smoking of heroin and cocaine [letter] Kramer TH, et al. **J Subst Abuse Treat** 1990;7(1):65
Relapse prevention in psychoeducational groups for compulsive crack cocaine smokers. Wallace BC. **J Subst Abuse Treat** 1989;6(4):229–39
Crack cocaine smokers as adult children of alcoholics: the dysfunctional family link. Wallace BC. **J Subst Abuse Treat** 1990;7(2):89–100
Cocaine cardiac toxicity. Rummel TS. **J Tenn Med Assoc** 1989 Oct;82(10):541
Hyponatremia in a neonate of a cocaine abusing mother. Dollberg S, et al. **J Toxicol Clin Toxicol** 1989; 27(4–5):287–92
Patterns of alcohol and drug abuse in an urban trauma center: the increasing role of cocaine abuse. Lindenbaum GA, et al. **J Trauma** 1989 Dec;29(12):1654–8
Priapism associated with intranasal cocaine abuse. Fiorelli RL, et al. **J Urol** 1990 Mar;143(3):584–5
Risk of sexually transmitted disease among black adolescent crack users in Oakland and San Francisco, Calif [see comments] Fullilove RE, et al. **JAMA** 1990 Feb 9; 263(6):851–5 Comment in: **JAMA** 1990 Jul 18;264(3):337.
From the Alcohol, Drug Abuse, and Mental Health Administration. Goodwin FK. **JAMA** 1989 Nov 17; 262(19):2654
From the Alcohol, Drug Abuse, and Mental Health Administration. Goodwin FK. **JAMA** 1990 Mar 23–30; 263(12):1610
Prevalence of recent cocaine use among motor vehicle fatalities in New York City [see comments] Marzuk PM, et al. **JAMA** 1990 Jan 12;263(2):250–6 Comment in: **JAMA** 1990 Jun 6;263(21):2887–8.
Black adolescent crack users in Oakland: no quick fix [letter; comment] Silverman BG. **JAMA** 1990 Jul 18;264(3):337 Comment on: **JAMA** 1990 Feb 9;263(6):851–5.
Cocaine use in pregnancy: physicians urged to look for problem where they least expect it [news] Skolnick A. **JAMA** 1990 Jul 18;264(3):306, 309
Bias against the null hypothesis: the reproductive hazards of cocaine [see comments] Koren G, et al. **Lancet** 1989 Dec 16;2(8677):1440–2 Comment in: Lancet 1990 Feb 17;335(8686):415.
The cocaine threat [letter; comment] Brown F. **MCN** 1989 Sep–Oct;14(5):308 Comment on: MCN 1989 Jan–Feb;14(1):27–31.
The care of infants menaced by cocaine abuse. Lewis KD, et al. **MCN** 1989 Sep–Oct;14(5):324–9
Management of cocaine abuse in methadone maintenance programs. Kolar AF. **Md Med J** 1989 Dec;38(12):1067–8
Patterns of cocaine abuse in an inner city emergency psychiatric service setting. Ghali AY, et al. **Med Law** 1989; 8(2):165–70
Drug–positive homicides in Virginia 1987 through 1989. **Med Leg Bull** 1990 Jan–Feb;39(1):1–9
The callus of crack cocaine [letter] Larkin RF. **N Engl J Med** 1990 Sep 6;323(10):685
The contemporary alcoholic. Miller NS, et al. **N J Med** 1990 Jan;87(1):35–9
Cocaine, rhabdomyolysis and metastatic calcifications [letter] Castelao AM, et al. **Nephrol Dial Transplant** 1989;4(7):675
Acute renal failure and rhabdomyolysis following cocaine abuse [letter; comment] Ahijado F, et al. **Nephron** 1990; 54(3):268 Comment on: Nephron 1989;52(1):76–8.
Biopsy–proven cerebral vasculitis associated with cocaine abuse. Krendel DA, et al. **Neurology** 1990 Jul;40(7):1092–4
Induction and loss of acute tolerance to the cardiac chronotropic effect of cocaine in humans. Ambre JJ, et al. **NIDA Res Monogr** 1989;95:355–6
Desipramine treatment of cocaine abuse in methadone maintenance patients. Arndt I, et al. **NIDA Res Monogr** 1989;95:322–3
Cocaine and heroin use by methadone maintenance patients. Ball JC, et al. **NIDA Res Monogr** 1989;95:328
Urine testing during treatment of cocaine dependence. Burke WM, et al. **NIDA Res Monogr** 1989;95:320–1
Risk behavior of intravenous cocaine users: implications for intervention. Chitwood DD, et al. **NIDA Res Monogr** 1990; 93:120–33
The Cocaine Expectancy Questionnaire (CEQ): its construction and predictive utility. Jaffe AJ, et al. **NIDA Res Monogr** 1989;95:456
Cocaine attenuates opiate withdrawal in human and rat. Kosten TA. **NIDA Res Monogr** 1989;95:361–2
Buprenorphine treatment of cocaine abuse. Kosten TR, et al. **NIDA Res Monogr** 1989;95:461
Inpatient vs. outpatient cocaine abuse treatments. Kosten TR, et al. **NIDA Res Monogr** 1989;95:312–3
A laboratory procedure for evaluation of pharmacotherapy for cocaine dependence. Kranzler H, et al. **NIDA Res Monogr** 1989;95:324–5
Carbamazepine treatment of cocaine dependence in methadone maintenance patients with dual opiate–cocaine addiction. Kuhn KL, et al. **NIDA Res Monogr** 1989; 95:316–7
Desipramine treatment for relapse prevention in cocaine dependence. McElroy SL, et al. **NIDA Res Monogr** 1989; 95:57–63
Evaluation of treatment for cocaine dependence. O'Brien CP, et al. **NIDA Res Monogr** 1989;95:78–84
Differential anxiety symptoms in cocaine vs. alcoholic patients. Pettinati H, et al. **NIDA Res Monogr** 1989; 95:471–2
Characteristics of non–referred cocaine abusing mothers. Smith IE, et al. **NIDA Res Monogr** 1989;95:330
Quantitative urine screening for the diagnosis and treatment of cocaine abuse. Tennant F. **NIDA Res Monogr** 1989; 95:318–9
Outcomes of cocaine–dependence treatment. Tennant F. **NIDA Res Monogr** 1989;95:314–5
The prevalence and self–reported consequences of cocaine use. Trinkoff AM, et al. **NIDA Res Monogr** 1989;95:329
Comparison of amantadine and desipramine combined with psychotherapy for treatment of cocaine dependence. Weddington WW, et al. **NIDA Res Monogr** 1989;95:483–4
The cocaine epidemic: treatment options for cocaine dependence. Chychula NM, et al. **Nurse Pract** 1990 Aug; 15(8):33–40 (7 ref.)
The cocaine epidemic: a comprehensive review of use, abuse and dependence. Chychula NM, et al. **Nurse Pract** 1990 Jul;15(7):31–9 (30 ref.)
Cocaine abuse during pregnancy: correlation between prenatal care and perinatal outcome. MacGregor SN, et al. **Obstet Gynecol** 1989 Dec;74(6):882–5
Perinatal outcome after recent cocaine usage. Mastrogiannis DS, et al. **Obstet Gynecol** 1990 Jul;76(1):8–11
Cocaine: maternal use during pregnancy and its effect on the mother, the fetus, and the infant. Rosenak D, et al. **Obstet Gynecol Surv** 1990 Jun;45(6):348–59 (125 ref.)
Are "sex–for–drugs" exchanges accelerating the risk of AIDS? [news] **Ohio Med** 1990 May;86(5):346
Effects of maternal cocaine abuse on perinatal and infant outcome. Cordero L, et al. **Ohio Med** 1990 May;86(5):410–2
Maternal cocaine use during pregnancy: effect on the newborn infant [letter; comment] Abdeljaber M, et al. **Pediatrics** 1990 Apr;85(4):630 Comment on: Pediatrics 1989 Aug;84(2):205–10.
Between a "rock" and a hard place: perinatal drug abuse. Chavkin W, et al. **Pediatrics** 1990 Feb;85(2):223–5
Increased cerebral blood flow velocity in infants of mothers who abuse cocaine. van de Bor M, et al. **Pediatrics** 1990 May;85(5):733–6
Schedule–induced chlordiazepoxide intake: differential effect of cocaine and ethanol histories. Falk JL, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):393–6
Cocaine abuse and its treatment. Hall WC, et al. **Pharmacotherapy** 1990;10(1):47–65 (110 ref.)
Tetracaine with epinephrine as an alternative to cocaine intranasally [letter] Courtiss EH. **Plast Reconstr Surg** 1990 Jul;86(1):167
The cocaine user: the potential problem patient for rhinoplasty. Slavin SA, et al. **Plast Reconstr Surg** 1990 Sep; 86(3):436–42
Cocaine intoxication. Derlet RW. **Postgrad Med** 1989 Oct; 86(5):245–8, 253 (25 ref.)
Stroke from alcohol and drug abuse. A current social peril. Gorelick PB. **Postgrad Med** 1990 Aug;88(2):171–4, 177–8 (21 ref.)
Crack abuse. Do you known enough about it? Hannan DJ, et al. **Postgrad Med** 1990 Jul;88(1):141–3, 146–7 (24 ref.)
Eye movements in cocaine abusers. Demer JL, et al. **Psychiatry Res** 1989 Aug;29(2):123–36
Family history and diagnosis of alcohol dependence in cocaine dependence. Miller NS, et al. **Psychiatry Res** 1989 Aug;29(2):113–21
Statewide prevalence of cocaine use during the perinatal period. **R I Med J** 1990 Jun;73(6):272
The leaves of Erythroxylon coca [editorial] Aronson SM. **R I Med J** 1990 Jun;73(6):229–30
Cocaine abuse and dependence. Swift RM, et al. **R I Med J** 1990 Jun;73(6):265–70 (47 ref.)
Dopaminergic mechanisms in idiopathic and drug–induced psychoses. Lieberman JA, et al. **Schizophr Bull** 1990; 16(1):97–110 (130 ref.)
Street–wise crack research [news] Holden C. **Science** 1989 Dec 15;246(4936):1376–81
A social worker's agony: working with children affected by crack/cocaine. Priddy D. **Soc Work** 1990 May;35(3):197–9
Local anesthesia with TAC [letter; comment] Cannon CR. **South Med J** 1990 May;83(5):601 Comment on: South Med J 1989 Nov;82(11):1344–6.
Cardiopulmonary abnormalities after smoking cocaine. Christou T, et al. **South Med J** 1990 Mar;83(3):335–8
Spinal cord infarction after cocaine use [letter] Sawaya GR, et al. **South Med J** 1990 May;83(5):601–2
Sickle cell disease and cocaine abuse—a deadly mixture? [letter] Strauss A, et al. **South Med J** 1989 Nov; 82(11):1455–6
Multiple intracerebral hemorrhages after smoking "crack" cocaine. Green RM, et al. **Stroke** 1990 Jun;21(6):957–62 (34 ref.)
Local anaesthesia for fibreoptic bronchoscopy [letter] Teale C, et al. **Thorax** 1990 Aug;45(8):646
Preliminary evidence for a cocaine–induced embryopathy in mice. Finnell RH, et al. **Toxicol Appl Pharmacol** 1990 Apr; 103(2):228–37
Cocaine: recognizing, treating the abuser. Coleman P. **Va Med** 1990 Jun;117(6):251–5 (15 ref.)
Pharmacologic approaches to the treatment of cocaine dependence. Taylor WA, et al. **West J Med** 1990 May; 152(5):573–7 (56 ref.)
Cocaine use during pregnancy: implications for physicians. Aronson RA, et al. **Wis Med J** 1990 Mar;89(3):105–10
[Cocaine and crack (editorial)] Retterstøl N. **Ugeskr Laeger** 1989 Dec 4;151(49):3293–4 **(Dan)**
[Eosinophilic myocarditis and pulmonary hypertension in a drug–addict. Anatomo–clinical study and brief review of the literature] Talebzadeh VC, et al. **Ann Pathol** 1990; 10(1):40–6 (52 ref.) (Eng. Abstr.) **(Fre)**
[The role of calcium homeostasis hormones in the

development of tolerance following drug and alcohol consumption] Balabanova S, et al. **Beitr Gerichtl Med** 1989; 47:379–83 (Eng. Abstr.) **(Ger)**

[Cocaine and cocaine poisoning. Pharmacology, symptoms and treatment] Rossi R. **Dtsch Med Wochenschr** 1990 Jun 1;115(22):868–73 (29 ref.) **(Ger)**

[Perfected, professional body–packing] Wehr K, et al. **Z Rechtsmed** 1989;103(1):63–8 (Eng. Abstr.) **(Ger)**

[Maternal cocaine abuse and effects on the mother, fetus and newborn] Rosenak D, et al. **Harefuah** 1989 Jun 1; 116(11):600–3 **(Heb)**

[Myocardial infarct in young drug addicts. Apropos of 2 clinical cases] Pereira D, et al. **Rev Port Cardiol** 1988 Sep–Oct;7(5):505–9 (Eng. Abstr.) **(Por)**

[Neurologic complications caused by use of cocaine, amphetamines and sympathomimetics] Díez–Tejedor E, et al. **Arch Neurobiol (Madr)** 1989;52 Suppl 1:162–82 (46 ref.) (Eng. Abstr.) **(Spa)**

[Cocaine and pregnancy: effects on the pregnant woman, the fetus and the newborn infant] García Pérez A, et al. **Med Clin (Barc)** 1989 Nov 4;93(14):538–42 (52 ref.) **(Spa)**

[Acute myocardial infarct in a cocaine–addicted young man] Laynez Cerdeña I, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):198–200 (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

TAC use and absorption of cocaine in a pediatric emergency department. Fitzmaurice LS, et al. **Ann Emerg Med** 1990 May;19(5):515–8

The ventral pallidum plays a role in mediating cocaine and heroin self–administration in the rat. Hubner CB, et al. **Brain Res** 1990 Jan 29;508(1):20–9

Multiple, but not acute, infusions of cocaine alter the release of prolactin in male rats. Pilotte NS, et al. **Brain Res** 1990 Mar 26;512(1):107–12

Schedule–induced oral self–administration of cocaine and ethanol solutions: lack of effect of chronic desipramine. Tang M, et al. **Drug Alcohol Depend** 1990 Feb;25(1):21–5

Effects of desipramine maintenance on cocaine self–administration by humans. Fischman MW, et al. **J Pharmacol Exp Ther** 1990 May;253(2):760–70

Buprenorphine and naltrexone effects on cocaine self–administration by rhesus monkeys. Mello NK, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):926–39

Differential effects of the pharmacological manipulation of serotonin systems on cocaine and amphetamine self–administration in rats. Porrino LJ, et al. **Life Sci** 1989; 45(17):1529–35

Bromocriptine produces decreases in cocaine self–administration in the rat. Hubner CB, et al. **Neuropsychopharmacology** 1990 Apr;3(2):101–8

The influence of cocaine self–administration on in vivo dopamine and acetylcholine neurotransmission in rat caudate–putamen. Hurd YL, et al. **Neurosci Lett** 1990 Feb 5;109(1–2):227–33

Effects of the combination of cocaine and marijuana on the task–elicited physiological response. Foltin RW, et al. **NIDA Res Monogr** 1989;95:359–60

Human psychopharmacology of intranasal cocaine. Higgins ST, et al. **NIDA Res Monogr** 1989;95:357–8

Rate altering effects of magnesium on cocaine self–administration. Kantak KM, et al. **NIDA Res Monogr** 1989;95:339–40

Buprenorphine suppresses cocaine self–administration in rhesus monkeys. Mello NK, et al. **NIDA Res Monogr** 1989; 95:333–4

Intravenous cocaine infusions in humans: dose responsivity and correlations of cardiovascular vs. subjective effects. Muntaner C, et al. **NIDA Res Monogr** 1989;95:351

The effects of capsaicin treatment on self–administration of amphetamine vapor in rats. Sharpe LG, et al. **NIDA Res Monogr** 1989;95:539

Influence of topical anesthesia on the sedation of pediatric emergency department patients with lacerations. Pierluisi GJ, et al. **Pediatr Emerg Care** 1989 Dec;5(4):211–5

Influence of housing conditions on the acquisition of intravenous heroin and cocaine self–administration in rats. Bozarth MA, et al. **Pharmacol Biochem Behav** 1989 Aug; 33(4):903–7

Fluoxetine reduces intravenous cocaine self–administration in rats. Carroll ME, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):237–44

Chlordiazepoxide alters intravenous cocaine self–administration in rats. Goeders NE, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):859–66

A method for delivery of precise doses of smoked cocaine–base to humans. Hatsukami D, et al. **Pharmacol Biochem Behav** 1990 May;36(1):1–7

Subjective response during continuous infusion of cocaine. Kumor KM, et al. **Pharmacol Biochem Behav** 1989 Jun; 33(2):443–52

Neurobehavioral and immunological effects of prenatal cocaine exposure in rat. Sobrian SK, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):617–29

Topical TAC (tetracaine, adrenaline, cocaine) solution for local anesthesia in children: prescribing inconsistency and acute toxicity [see comments] Tipton GA, et al. **South Med J** 1989 Nov;82(11):1344–6 Comment in: South Med J 1990 May;83(5):601.

ADVERSE EFFECTS

An angiographic and histologic study of cocaine–induced chest pain. Majid PA, et al. **Am J Cardiol** 1990 Mar 15; 65(11):812–4

Rupture of unscarred uterus in primigravid woman in association with cocaine abuse. Gonsoulin W, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):526–7

Corneal epithelial defects after smoking crack cocaine. McHenry JG, et al. **Am J Ophthalmol** 1989 Dec 15; 108(6):732

Crack lung: an acute pulmonary syndrome with a spectrum of clinical and histopathologic findings. Forrester JM, et al. **Am Rev Respir Dis** 1990 Aug;142(2):462–7

Esmolol in the management of epinephrine– and cocaine–induced cardiovascular toxicity. Pollan S, et al. **Anesth Analg** 1989 Nov;69(5):663–4

Severe thrombocytopenia associated with cocaine use. Leissinger CA. **Ann Intern Med** 1990 May 1;112(9):708–10

Myocardial ischemia during cocaine withdrawal [see comments] Nademanee K, et al. **Ann Intern Med** 1989 Dec 1;111(11):876–80 Comment in: Ann Intern Med 1990 Apr 1;112(7):548–9. Comment in: Ann Intern Med 1990 May 1;112(9):712.

A stroke associated with cocaine use [letter; comment] Deringer PM, et al. **Arch Neurol** 1990 May;47(5):502 Comment on: Arch Neurol 1989 Sep;46(9):989–93.

Cocaine–induced delirium versus delusional disorder [letter; comment] Pearlson GD, et al. **Biol Psychiatry** 1989 Dec; 26(8):847–8 Comment on: Biol Psychiatry 1988 Dec;24(8):865–85.

'Methadone and caries' [letter] Hutchinson S. **Br Dent J** 1990 Jun 9;168(11):430

Cocaine–induced acute aortic dissection. Gadaleta D, et al. **Chest** 1989 Nov;96(5):1203–5

Complications of cocaine use [letter] Emory CE. **Clin Pharm** 1989 Oct;8(10):689–90

Effects of cocaine on the human fetus: a review of clinical studies. Doering PL, et al. **DICP** 1989 Sep;23(9):639–45 (35 ref.)

Histopathology of cocaine hepatotoxicity. Report of four patients. Wanless IR, et al. **Gastroenterology** 1990 Feb; 98(2):497–501

Cocaine–induced liver cell injury: comparison of morphological features in man and in experimental models. Kanel GC, et al. **Hepatology** 1990 Apr;11(4):646–51

Neonatal cocaine–related seizures. Kramer LD, et al. **J Child Neurol** 1990 Jan;5(1):60–4

Possible cocaine predisposition to adverse cerebrovascular and cardiovascular sequelae of bromocriptine administered postpartum. Miller LG, et al. **J Clin Pharmacol** 1989 Sep; 29(9):781–5

Neonatal ultrasound casebook. Antenatal brain injury and maternal cocaine use. Sims ME, et al. **J Perinatol** 1989 Sep;9(3):349–50

Priapism associated with the use of topical cocaine. Rodríguez–Bláquez HM, et al. **J Urol** 1990 Feb;143(2):358

Congenital renal abnormalities in infants with in utero cocaine exposure. Rosenstein BJ, et al. **J Urol** 1990 Jul; 144(1):110–2

Cocaine and traffic accident fatalities in New York City [letter; comment] **JAMA** 1990 Jun 6;263(21):2887–8 Comment on: JAMA 1990 Jan 12;263(2):250–6.

Cocaine and vasospasm [editorial; comment] Isner JM, et al. **N Engl J Med** 1989 Dec 7;321(23):1604–6 Comment on: N Engl J Med 1989 Dec 7;321(23):1557–62.

Cerebrovascular complications of the use of the "crack" form of alkaloidal cocaine. Levine SR, et al. **N Engl J Med** 1990 Sep 13;323(11):699–704

Cocaine [letter; comment] Kaukonen L, et al. **N Y State J Med** 1990 Jan;90(1):39 Comment on: N Y State J Med 1989 Jul;89(7):384–6.

Cocaine withdrawal dystonia [letter; comment] Kumor K. **Neurology** 1990 May;40(5):863–4 Comment on: Neurology 1989 Jul;39(7):996–7.

Cocaine–associated multifocal tics. Pascual–Leone A, et al. **Neurology** 1990 Jun;40(6):999–1000

Evaluation of cognitive skills in ethanol– and cocaine–dependent patients during detoxification using P300 evoked response potentials (ERPs). Amass L, et al. **NIDA Res Monogr** 1989;95:353–4

In utero exposure to cocaine and the risk of SIDS. Lounsbury B, et al. **NIDA Res Monogr** 1989;95:352

Learning handicaps linked to drug exposure [news] **Ohio Med** 1990 Jan;86(1):14

Intracranial hemorrhage in a neonate following prenatal cocaine exposure. Spires MC, et al. **Pediatr Neurol** 1989 Sep–Oct;5(5):324–6

Effect of maternal cocaine use on the fetus and newborn: review of the literature. Roland EH, et al. **Pediatr Neurosci** 1989;15(2):88–94 (58 ref.)

Prenatal cocaine exposure and fetal vascular disruption. Hoyme HE, et al. **Pediatrics** 1990 May;85(5):743–7

Decreased cardiac output in infants of mothers who abused cocaine. van de Bor M, et al. **Pediatrics** 1990 Jan;85(1):30–2

Cocaine use during pregnancy. Coustan DR, et al. **R I Med J** 1990 Jun;73(6):249–52 (26 ref.)

Cerebral abnormalities in cocaine abusers: demonstration by SPECT perfusion brain scintigraphy. Work in progress. Tumeh SS, et al. **Radiology** 1990 Sep;176(3):821–4

The clinical use of cocaine in rhinosurgery: a case–report and a review. Albers FW. **Rhinology** 1990 Mar;28(1):55–9 (25 ref.)

A FASEB sampler. American Societies for Experimental Biology. Williams S. **Science** 1990 Apr 13;248(4952):166

Cocaine in the cradle: a hidden epidemic. Giacoia GP. **South Med J** 1990 Aug;83(8):947–51 (38 ref.)

Cocaine and scleroderma. Kerr HD. **South Med J** 1989 Oct; 82(10):1275–6

Relationship between uterine vascular clamping, vascular disruption syndrome, and cocaine teratogenicity. Brent RL. **Teratology** 1990 Jun;41(6):757–60

Cocaine as a cause of congenital malformations of vascular origin: experimental evidence in the rat. Webster WS, et al. **Teratology** 1990 Jun;41(6):689–97

Association of spontaneous pneumomediastinum with substance abuse. Fajardo LL. **West J Med** 1990 Mar; 152(3):301–4

Cocaine, pregnancy, and the neonate. Chasnoff IJ. **Women Health** 1989;15(3):23–35

[Cardiologic complications related to cocaine] Van Viet H, et al. **Ann Med Interne (Paris)** 1989;140(8):702–8 (69 ref.) **(Fre)**

[Neurologic complications of cocaine abuse] Van Viet H, et al. **Presse Med** 1990 Jun 2;19(22):1045–9 (51 ref.) (Eng. Abstr.) **(Fre)**

[Diaplacental poisoning with narcotics and alcohol in newborn infants] Klöppel A, et al. **Beitr Gerichtl Med** 1989; 47:77–9 (Eng. Abstr.) **(Ger)**

[Cerebral hemorrhage caused by cocaine consumption (letter)] Vicens L, et al. **Rev Clin Esp** 1990 Jan;186(1):43–4 **(Spa)**

ANALOGS & DERIVATIVES

Variations in abundance of the molecular ion of the derivatized cocaine metabolite benzoylecgonine. Bodor G, et al. **Clin Chem** 1990 May;36(5):742–7

Extending the detection limit of the TDx fluorescence polarization immunoassay for benzoylecgonine in urine. de Kanel J, et al. **Clin Chem** 1989 Oct;35(10):2110–2

Direct automated EMIT d.a.u. analysis of N,N–dimethylformamide–modified serum, plasma, and postmortem blood for benzodiazepines, benzoylecgonine, cannabinoids, and opiates. Blum LM, et al. **J Anal Toxicol** 1989 Sep–Oct;13(5):285–8

Limit for qualitative detection of benzoylecgonine in urine using EMIT reagents and the Hitachi 705 automatic analyzer. Hall TD, et al. **J Anal Toxicol** 1989 Nov–Dec; 13(6):371–3

A comprehensive study of the stability of cocaine and its metabolites. Isenschmid DS, et al. **J Anal Toxicol** 1989 Sep–Oct;13(5):250–6

Determination of cocaine and norcocaine in plasma and cell cultures using high–performance liquid chromatography. Bouis P, et al. **J Chromatogr** 1990 Apr 6;526(2):447–59

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylecgonine and benzoylnorecgonine by high–performance liquid chromatography. Sandberg JA, et al. **J Chromatogr** 1990 Jan 26;525(1):113–21

Prolonged presence of metabolite in urine after compulsive cocaine use. Burke WM, et al. **J Clin Psychiatry** 1990 Apr; 51(4):145–8

Prolonged detection period for cocaine and metabolite [letter] Weddington WW. **J Clin Psychiatry** 1990 Aug; 51(8):347

Synthesis of 3–arylecgonine analogues as inhibitors of cocaine binding and dopamine uptake. Kline RH Jr, et al. **J Med Chem** 1990 Jul;33(7):2024–7

Effects of benzoyltropine and tropacocaine on several cholinergic processes in the rat brain. Meyer EM, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):584–90

Cocaine smokers excrete a pyrolysis product, anhydroecgonine methyl ester. Jacob P 3d, et al. **J Toxicol Clin Toxicol** 1990;28(1):121–5

Norcocaine: a pharmacologically active metabolite of cocaine found in brain. Hawks RL, et al. **Life Sci** 1974 Dec 15; 15(12):2189–95

Detection of benzoylecgonine (cocaine metabolite) in urine: a cost–effective low risk immunoassay procedure. Moore FM, et al. **Med Lab Sci** 1990 Apr;47(2):85–9

Cocaine receptors labeled by [3H]2 beta–carbomethoxy–3 beta–(4–fluorophenyl)tropane. Madras BK, et al. **Mol Pharmacol** 1989 Oct;36(4):518–24

Urine testing during treatment of cocaine dependence. Burke WM, et al. **NIDA Res Monogr** 1989;95:320–1

N–modified fluorophenyltropane analogs of cocaine with high affinity for cocaine receptors. Madras BK, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):949–53

Cocaine receptors: in vivo labeling with 3H–(–)cocaine, 3H–WIN 35,065–2, and 3H–WIN 35,428. Scheffel U, et al. **Synapse** 1989;4(4):390–2

Prospective evaluation of "crack–vial" ingestions. Hoffman RS, et al. **Vet Hum Toxicol** 1990 Apr;32(2):164–7

ANALYSIS

The application of derivative spectrophotometry for the simultaneous determination of cocaine and other local anesthetics. Arufe–Martinez MI, et al. **J Anal Toxicol** 1989 Nov–Dec;13(6):337–53

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylecgonine and benzoylnorecgonine by high–performance liquid chromatography. Sandberg JA, et al. **J Chromatogr** 1990 Jan 26;525(1):113–21

Cocaine in body fluids: analysis and interpretation of the drug

abuse specimen. Martin HF. **R I Med J** 1990 Jun; 73(6):243–8

ANTAGONISTS & INHIBITORS

Dihydropyridine calcium antagonists prevent cocaine–, but not amphetamine–, induced dopamine release and motor activity in rats. Rossetti ZL, et al. **Acta Physiol Hung** 1990; 75 Suppl:249–50

Nimodipine inhibits cocaine–induced dopamine release and motor stimulation. Pani L, et al. **Eur J Pharmacol** 1990 Feb 6;176(2):245–6

Tight binding dopamine reuptake inhibitors as cocaine antagonists. A strategy for drug development [published erratum appears in **FEBS Lett** 1990 Jan 15;260(1):152] Rothman RB, et al. **FEBS Lett** 1989 Nov 6;257(2):341–4

Propranolol blocks cocaine–induced potentiation of the contraction in the smooth muscle of the rat vas deferens. Suzuki N, et al. **J Pharmacobiodyn** 1990 Mar;13(3):172–8

High affinity dopamine reuptake inhibitors as potential cocaine antagonists: a strategy for drug development. Rothman RB. **Life Sci** 1990;46(20):PL17–21

The stimulus properties of cocaine: effects of BAY K 8644 and nimodipine. Cunningham KA, et al. **NIDA Res Monogr** 1989;95:500–1

Antagonism of behavioral effects of cocaine by selective dopamine receptor blockers. Spealman RD. **Psychopharmacology (Berl)** 1990;101(1):142–5

BLOOD

Determination of cocaine concentrations in plasma by high–performance liquid chromatography. Jatlow P, et al. **Clin Chem** 1990 Aug;36(8 Pt 1):1436–9

An example of cocaine tolerance in a gunshot wound fatality. Howell SL, et al. **J Anal Toxicol** 1990 Jan–Feb;14(1):60–1

A comprehensive study of the stability of cocaine and its metabolites. Isenschmid DS, et al. **J Anal Toxicol** 1989 Sep–Oct;13(5):250–6

Determination of cocaine and norcocaine in plasma and cell cultures using high–performance liquid chromatography. Bouis P, et al. **J Chromatogr** 1990 Apr 6;526(2):447–59

Determination of cocaine and selected metabolites in canine and human serum by reversed–phase high–performance liquid chromatography on coupled cyanopropyl and silica columns. Lampert BM, et al. **J Chromatogr** 1989 Oct 27; 495:153–65

CHEMICAL SYNTHESIS

Synthesis of 3–arylecgonine analogues as inhibitors of cocaine binding and dopamine uptake. Kline RH Jr, et al. **J Med Chem** 1990 Jul;33(7):2024–7

Contamination of clandestinely prepared drugs with synthetic by–products. Soine WH. **NIDA Res Monogr** 1989;95:44–50 (33 ref.)

DIAGNOSTIC USE

Critical evaluation of the cocaine test in the diagnosis of Horner's syndrome. Kardon RH, et al. **Arch Ophthalmol** 1990 Mar;108(3):384–7

Graphical analysis of reversible radioligand binding from time–activity measurements applied to [N–11C–methyl]–(–)–cocaine PET studies in human subjects. Logan J, et al. **J Cereb Blood Flow Metab** 1990 Sep;10(5):740–7

METABOLISM

Metabolism of cocaine by human placentas: implications for fetal exposure. Roe DA, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):715–8

[3H]cocaine binding and inhibition of [3H]dopamine uptake is similar in both the rat striatum and nucleus accumbens. Boja JW, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):215–7

Prolonged detection period for cocaine and metabolite [letter] Weddington WW. **J Clin Psychiatry** 1990 Aug; 51(8):347

Rapid stereoselective hydrolysis of (+)–cocaine in baboon plasma prevents its uptake in the brain: implications for behavioral studies. Gatley SJ, et al. **J Neurochem** 1990 Feb; 54(2):720–3

Effects of cocaine and related drugs in nonhuman primates. I. [3H]cocaine binding sites in caudate–putamen. Madras BK, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):131–41

Determination of gestational cocaine exposure by hair analysis [see comments] Graham K, et al. **JAMA** 1989 Dec 15;262(23):3328–30 Comment in: **JAMA** 1989 Dec 15;262(23):3331.

Characterization of a cocaine binding protein in human placenta. Ahmed MS, et al. **Life Sci** 1990;46(8):553–61

Norcocaine: a pharmacologically active metabolite of cocaine found in brain. Hawks RL, et al. **Life Sci** 1974 Dec 15; 15(12):2189–95

Cocaine receptors labeled by [3H]2 beta–carbomethoxy–3 beta–(4–fluorophenyl)tropane. Madras BK, et al. **Mol Pharmacol** 1989 Oct;36(4):518–24

Phencyclidine binding to striatal cocaine receptors. Kuhar MJ, et al. **Neuropharmacology** 1990 Mar;29(3):295–7

Mapping cocaine binding sites in human and baboon brain in vivo. Fowler JS, et al. **Synapse** 1989;4(4):371–7

Modulation of cocaine metabolism in primary rat hepatocyte cultures: effects on irreversible binding and protein biosynthesis. Bouis P, et al. **Toxicol Appl Pharmacol** 1990 Jul;104(3):429–39

PHARMACOKINETICS

TAC use and absorption of cocaine in a pediatric emergency department. Fitzmaurice LS, et al. **Ann Emerg Med** 1990 May;19(5):515–8

Cocaine: pharmacokinetics and biotransformation in man. Inaba T. **Can J Physiol Pharmacol** 1989 Sep;67(9):1154–7 (24 ref.)

Mass spectrometric studies of cocaine disposition in animals and humans using stable isotope–labeled analogues. Jindal SP, et al. **J Pharm Sci** 1989 Dec;78(12):1009–14

Cocaine smokers excrete a pyrolysis product, anhydroecgonine methyl ester. Jacob P 3d, et al. **J Toxicol Clin Toxicol** 1990;28(1):121–5

Tissue distribution of cocaine in the pregnant rat. DeVane CL, et al. **Life Sci** 1989;45(14):1271–6

Pharmacokinetics of cocaine: basic studies of route, dosage, pregnancy and lactation. Wiggins RC, et al. **Neurotoxicology** 1989 Fall;10(3):367–81

Binding of [3H]GBR 12935 in the striatum, medial prefrontal cortex, nucleus accumbens and olfactory tubercle of rat. Izenwasser S, et al. **NIDA Res Monogr** 1989;95:341–2

Correlation between cocaine–induced locomotion and cocaine disposition in the brain among four inbred strains of mice. Wiener HL, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):699–701

PHARMACOLOGY

A comparison of the effects of two commonly used vasoconstrictors on nasal mucosal blood flow and nasal airflow. Wight RG, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):137–41

Effects of neurohypophyseal hormones on cocaine–induced behavioral sensitisation. Sarnyai Z, et al. **Acta Physiol Hung** 1990;75 Suppl:255–6

Adverse effects of cocaine on cardiovascular dynamics, myocardial blood flow, and coronary artery diameter in an experimental model. Hale SL, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):927–33

A review of the respiratory effects of smoking cocaine. Ettinger NA, et al. **Am J Med** 1989 Dec;87(6):664–8 (40 ref.)

Effect of magnesium on cocaine–induced, catecholamine–mediated platelet and vascular response in term pregnant ewes. Weaver K, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1331–7

Cocaine inhibits baroreflex control of blood pressure by actions at arterial baroreceptors. Andresen MC, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1244–9

Effects of chronic cocaine abuse on postsynaptic dopamine receptors. Volkow ND, et al. **Am J Psychiatry** 1990 Jun; 147(6):719–24

Pharmacology and therapeutic applications of cocaine. Fleming JA, et al. **Anesthesiology** 1990 Sep;73(3):518–31 (161 ref.)

Can cocaine block the uptake of neurotoxin produced by Trypanosoma cruzi? Reis CC, et al. **Angew Parasitol** 1989 Nov;30(4):239–47

The effect of local anesthetics on bacterial proliferation: TAC versus lidocaine. Martin JR, et al. **Ann Emerg Med** 1990 Sep;19(9):987–90

Potentiation of cocaine–induced coronary vasoconstriction by beta–adrenergic blockade. Lange RA, et al. **Ann Intern Med** 1990 Jun 15;112(12):897–903

Ocular effects and detection in tears of aerosolized intranasal cocaine and fluorescein. Orlick ME, et al. **Ann Ophthalmol** 1990 Jul;22(7):249–54

Cocaine–induced reduction of glucose utilization in human brain. A study using positron emission tomography and [fluorine 18]–fluorodeoxyglucose. London ED, et al. **Arch Gen Psychiatry** 1990 Jun;47(6):567–74

Cardiovascular and lethal effects of cocaine in anesthetized dogs and guinea–pigs. Seifen E, et al. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug;300:241–53

The effects of cocaine on multivariate locomotor behavior and defecation. Zubrycki EM, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):155–9

Cocaine–sensitive, ATP–dependent dopamine uptake into striatal synaptosomes. Cao CJ, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):R9–14

Characterization of cocaine–induced block of cardiac sodium channels. Crumb WJ Jr, et al. **Biophys J** 1990 Mar; 57(3):589–99

pH–dependent binding of local anesthetics in single batrachotoxin–activated Na+ channels. Cocaine vs. quaternary compounds. Nettleton J, et al. **Biophys J** 1990 Jul;58(1):95–106

Actions of cocaine on rat dopaminergic neurones in vitro. Lacey MG, et al. **Br J Pharmacol** 1990 Apr;99(4):731–5

Actions of cocaine on rat nucleus accumbens neurones in vitro. Uchimura N, et al. **Br J Pharmacol** 1990 Apr; 99(4):736–40

Enhanced extracellular dopamine level may be the fundamental neuropharmacological basis of cross–behavioral sensitization between methamphetamine and cocaine—an in vivo dialysis study in freely moving rats. Akimoto K, et al. **Brain Res** 1990 Jan 22;507(2):344–6

The effect of systemic cocaine on spontaneous and nociceptively evoked activity of neurons in the medial and lateral thalamus. Belczynski CR Jr, et al. **Brain Res** 1990 May 28;517(1–2):344–6

Cocaine stimulates rat hypothalamic corticotropin–releasing hormone secretion in vitro. Calogero AE, et al. **Brain Res** 1989 Dec 25;505(1):7–11

Dopaminergic involvement in the cocaine–induced up–regulation of benzodiazepine receptors in the rat caudate nucleus. Goeders N, et al. **Brain Res** 1990 May 7;515(1–2):1–8

Opioid mediation of cocaine–induced hyperactivity and reinforcement. Houdi AA, et al. **Brain Res** 1989 Sep 11; 497(1):195–8

Central action of psychomotor stimulants on glucose utilization in extrapyramidal motor areas of the rat brain. London ED, et al. **Brain Res** 1990 Mar 26;512(1):155–8

Chronic carbamazepine inhibits the development of local anesthetic seizures kindled by cocaine and lidocaine. Weiss SR, et al. **Brain Res** 1989 Sep 11;497(1):72–9

Cocaine enhances medial prefrontal cortex neuron response to ventral tegmental area activation. Peterson SL, et al. **Brain Res Bull** 1990 Feb;24(2):267–73

New perspectives on cocaine addiction: recent findings from animal research. Bozarth MA. **Can J Physiol Pharmacol** 1989 Sep;67(9):1158–67 (101 ref.)

Coronary vasodilation caused by intravenous cocaine in the anesthetized beagle. Friedrichs GS, et al. **Can J Physiol Pharmacol** 1990 Jul;68(7):893–7

Autonomic actions of cocaine. Pitts DK, et al. **Can J Physiol Pharmacol** 1989 Sep;67(9):1168–76 (122 ref.)

Inhibition of rat fibroblast cell proliferation at specific cell cycle stages by cocaine. Di Francesco P, et al. **Cell Biol Int Rep** 1990 Jun;14(6):549–58

Inhibition by cocaine of noradrenaline release from sympathetic nerves in the rabbit ear artery. Parker DA, et al. **Clin Exp Pharmacol Physiol** 1988 Aug;15(8):613–7

Drug–reinforced responding: rapid determination of dose–response functions. Winger G, et al. **Drug Alcohol Depend** 1989 Oct;24(2):135–42

Complex interaction of cocaine with the dopamine uptake carrier. Berger P, et al. **Eur J Pharmacol** 1990 Feb 6; 176(2):251–2

Dose–response inhibition of rat compound nerve action potential by dextropropoxyphene and codeine compared to morphine and cocaine in vitro. Brodin P, et al. **Gen Pharmacol** 1990;21(4):551–3

Cerebral ornithine decarboxylase levels following gestational exposure to cocaine. Bondy SC, et al. **Int J Dev Neurosci** 1990;8(3):337–41

Cocaine or delta 9–tetrahydrocannabinol does not affect cellular cytotoxicity in vitro. Lu F, et al. **Int J Immunopharmacol** 1989;11(7):849–52

Effect of cocaine on coronary artery dimensions in atherosclerotic coronary artery disease: enhanced vasoconstriction at sites of significant stenoses. Flores ED, et al. **J Am Coll Cardiol** 1990 Jul;16(1):74–9

Cocaine effects on pulsatile secretion of anterior pituitary, gonadal, and adrenal hormones. Mendelson JH, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1256–60

Cocaine and its derivatives blunt neutrophil functions without influencing phosphorylation of a 47–kilodalton component of the reduced nicotinamide–adenine dinucleotide phosphate oxidase. Haines KA, et al. **J Immunol** 1990 Jun 15;144(12):4757–64

Expression of a human cocaine–sensitive dopamine transporter in Xenopus laevis oocytes. Bannon MJ, et al. **J Neurochem** 1990 Feb;54(2):706–8

Chronic cocaine treatment decreases levels of the G protein subunits Gi alpha and Go alpha in discrete regions of rat brain. Nestler EJ, et al. **J Neurochem** 1990 Sep; 55(3):1079–82

Extracellular concentrations of cocaine and dopamine are enhanced during chronic cocaine administration. Pettit HO, et al. **J Neurochem** 1990 Sep;55(3):798–804

Microinjection of cocaine into the nucleus accumbens elicits locomotor activation in the rat. Delfs JM, et al. **J Neurosci** 1990 Jan;10(1):303–10

Covalent labeling of the cocaine–sensitive catecholamine transporter. Howard BD, et al. **J Neurosci Res** 1990 Jun; 26(2):149–58

Cocaine: clinical pharmacology and toxicology. Farrar HC, et al. **J Pediatr** 1989 Nov;115(5 Pt 1):665–75 (111 ref.)

The self–administration of MK–801 can depend upon drug–reinforcement history, and its discriminative stimulus properties are phencyclidine–like in rhesus monkeys. Beardsley PM, et al. **J Pharmacol Exp Ther** 1990 Mar; 252(3):953–9

Effects of cocaine and related drugs in nonhuman primates. III. Self–administration by squirrel monkeys. Bergman J, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):150–5

Food deprivation and acquisition of intravenous cocaine self–administration in rats: effect of naltrexone and haloperidol. De Vry J, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):735–40

Electrophysiological effects of cocaine in the mesoaccumbens dopamine system: repeated administration. Henry DJ, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):833–9

Factors determining whether cocaine will potentiate the cardiac effects of neurally released norepinephrine. Jain RK, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):147–53

Pharmacological characterization of the discriminative stimulus effects of cocaine in rhesus monkeys. Kleven MS, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):312–7

Acute effects of cocaine on prolactin and gonadotropins in

female rhesus monkey during the follicular phase of the menstrual cycle. Mello NK, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):815–23

Differential actions of cocaine and amphetamine on dorsal raphe neurons in vitro. Pan ZZ, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):56–62

Persistence of neurochemical changes in dopamine systems after repeated cocaine administration. Peris J, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):38–44

Effects of cocaine on extrapyramidal and limbic dynorphin systems. Smiley PL, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):938–43

Effects of cocaine and related drugs in nonhuman primates. II. Stimulant effects on schedule-controlled behavior. Spealman RD, et al. **J Pharmacol Exp Ther** 1989 Oct; 251(1):142–9

The role of central and autonomic neural mechanisms in the cardiovascular effects of cocaine in conscious squirrel monkeys. Tella SR, et al. **J Pharmacol Exp Ther** 1990 Feb; 252(2):491–9

From the Alcohol, Drug Abuse, and Mental Health Administration. Goodwin FK. **JAMA** 1990 Aug 22–29; 264(8):950

Cocaine inhibition of ligand binding at dopamine, norepinephrine and serotonin transporters: a structure-activity study. Ritz MC, et al. **Life Sci** 1990; 46(9):635–45

Immunomodulation by cocaine—a neuroendocrine mediated response. Watzl B, et al. **Life Sci** 1990;46(19):1319–29 (67 ref.)

Cocaine does not alter cardiac glycogen content at rest or during exercise. Conlee RK, et al. **Metabolism** 1989 Nov; 38(11):1039–41

Cocaine-induced coronary-artery constriction [letter; comment] **N Engl J Med** 1990 Apr 26;322(17):1235–7 Comment on: N Engl J Med 1989 Dec 7;321(23):1557–62.

Cocaine-induced coronary-artery vasoconstriction [see comments] Lange RA, et al. **N Engl J Med** 1989 Dec 7; 321(23):1557–62 Comment in: N Engl J Med 1989 Dec 7;321(23):1604–6. Comment in: N Engl J Med 1990 Apr 26;322(17):1235–7.

The role of oxytocin-dopamine interactions in cocaine-induced locomotor hyperactivity. Kovàcs GL, et al. **Neuropharmacology** 1990 Apr;29(4):365–8

Effects of microiontophoretic application of cocaine, alone and with receptor antagonists, upon the neurons of the medial prefrontal cortex, nucleus accumbens and caudate nucleus of rats. Qiao JT, et al. **Neuropharmacology** 1990 Apr;29(4):379–85

Effects of cocaine on neuromuscular transmission in the lobster. Turkanis SA, et al. **Neuropharmacology** 1989 Sep; 28(9):971–5

Effects of acute and chronic administration of cocaine on striatal uptake, compartmentalization and release of [3H]dopamine. Yi SJ, et al. **Neuropharmacology** 1990 May; 29(5):475–86

Bromocriptine antagonizes behavioral effects of cocaine in the rat. Campbell A, et al. **Neuropsychopharmacology** 1989 Sep;2(3):209–24

The interaction of cocaine with serotonin dorsal raphe neurons. Single-unit extracellular recording studies. Cunningham KA, et al. **Neuropsychopharmacology** 1990 Feb;3(1):41–50

Carbamazepine retards the development of cocaine-kindled seizures but not sensitization to cocaine-induced hyperactivity. Weiss SR, et al. **Neuropsychopharmacology** 1990 Aug;3(4):273–81

Cocaine-induced cerebral vascular damage can be ameliorated by Mg2+ in rat brain. Huang QF, et al. **Neurosci Lett** 1990 Feb 5;109(1–2):113–6

Effect of intravenous infusion and oral self-administration of cocaine on plasma and adrenal catecholamine levels and cardiovascular parameters in the conscious rat. Dixon WR, et al. **NIDA Res Monogr** 1989;95:335–6

Comparison of responses by neuropeptide systems in rat to the psychotropic drugs, methamphetamine, cocaine and PCP. Hanson GR, et al. **NIDA Res Monogr** 1989;95:348

Energy substrate metabolism in testis of rats treated with delta-9-tetrahydrocannabinol (THC) and cocaine (COC). Husain S. **NIDA Res Monogr** 1989;95:509–10

Cocaine increases benzodiazepine receptors labeled in the mouse brain in vivo with [3H]Ro 15-1788. Jung ME, et al. **NIDA Res Monogr** 1989;95:512–3

Behavioral and EEG studies of acute cocaine administration: comparisons with morphine, amphetamine, pentobarbital, nicotine, ethanol and marijuana. Lukas SE, et al. **NIDA Res Monogr** 1989;95:146–51

Cocaine stimulates LH and decreases PRL in female rhesus monkeys. Mello NK, et al. **NIDA Res Monogr** 1989; 95:337–8

Cocaine binding sites related to drug self-administration. Ritz MC, et al. **NIDA Res Monogr** 1989;95:239–46 (20 ref.)

Actions of cocaine on central monoamine neurons: intracellular recordings in vitro. Williams J, et al. **NIDA Res Monogr** 1988;90:234–42

Effect of alpha 1 receptor blockade upon maternal and fetal cardiovascular responses to cocaine. Dolkart LA, et al. **Obstet Gynecol** 1990 May;75(5):745–51

Differential inhibition of synaptosomal accumulation of [3H]-monoamines by cocaine, tropacocaine and amphetamine in four inbred strains of mice. Bosy TZ, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):165–72

Differential sensitivity of long-sleep and short-sleep mice to high doses of cocaine. de Fiebre CM, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):887–93

The acute effects of caffeine, cocaine and d-amphetamine on the repeated acquisition responding of pigeons. Evans EB, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):631–6

Schedule-induced cocaine drinking: choice between cocaine and vehicle. Falk JL, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):187–93

The effects of combinations of intranasal cocaine, smoked marijuana, and task performance on heart rate and blood pressure. Foltin RW, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):311–5

Chronic imipramine does not block cocaine-induced increases in brain stimulation reward. Frank RA, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):725–7

Potentiation of cocaine's discriminative effects by caffeine: a time-effect analysis. Gauvin DV, et al. **Pharmacol Biochem Behav** 1990 May;36(1):195–7

Effects of cocaine and d-amphetamine on sustained and selective attention in rats. Grilly DM, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):733–9

Cocaine and level of arousal: effects on vigilance task performance of rats. Grilly DM, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):269–71

Behavioral interaction between cocaine and caffeine: a drug discrimination analysis in rats. Harland RD, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1017–23

Failure of magnesium to maintain self-administration in cocaine-naive rats. Kantak KM, et al. **Pharmacol Biochem Behav** 1990 May;36(1):9–12

Postcocaine depression and sensitization of brain-stimulation reward: analysis of reinforcement and performance effects. Kokkinidis L, et al. **Pharmacol Biochem Behav** 1990 Jul; 36(3):463–71

Effects of bromocriptine pretreatment on subjective and physiological responses to i.v. cocaine. Kumor K, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):829–37

Postconditioning effects of magnesium on cocaine conditioned place preference in mice. Lawley SI, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):531–8

Orally delivered cocaine as a reinforcer for rhesus monkeys. Meisch RA, et al. **Pharmacol Biochem Behav** 1990 Jan; 35(1):245–9

Cocaine facilitates prefrontal cortex self-stimulation. Moody CA, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):743–6

Intravenous cocaine infusions in humans: dose responsivity and correlations of cardiovascular vs. subjective effects. Muntaner C, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):697–703

Dopamine in the nucleus accumbens during cocaine self-administration as studied by in vivo microdialysis. Pettit HO, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):899–904

Temporal parameters of cathinone, amphetamine and cocaine. Schechter MD. **Pharmacol Biochem Behav** 1989 Oct;34(2):289–92

Situational specificity of tolerance to decreased operant responding by cocaine. Smith JB. **Pharmacol Biochem Behav** 1990 Jul;36(3):473–7

Preference for cocaine by the weight pulling method in rats. Suzuki T, et al. **Pharmacol Biochem Behav** 1990 Jul; 36(3):661–9

Context-dependent cocaine sensitization: differential effect of haloperidol on development versus expression. Weiss SR, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):655–61

Behavioral effects of cocaine and its interaction with d-amphetamine and morphine in rats. Wenger GR, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):595–600

Mediation in the nucleus accumbens of the discriminative stimulus produced by cocaine. Wood DM, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):453–7

Chronic cocaine treatment impairs the regulation of synaptosomal 3H-DA release by D2 autoreceptors. Yi SJ, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):457–61

Discriminative stimulus properties of local anesthetics in d-amphetamine- and pentobarbital-trained pigeons. Zacny JP, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):527–31

The pharmacology of cocaine related to its abuse. Johanson CE, et al. **Pharmacol Rev** 1989 Mar;41(1):3–52 (1550 ref.)

Cocaine-induced arrhythmia in human foetal myocardium in vitro: possible mechanism for foetal death in utero. Richards IS, et al. **Pharmacol Toxicol** 1990 Feb;66(2):150–4

Effect of acute cocaine administration on the cholinergic enzyme levels of specific brain regions in the rat. Claye LH, et al. **Pharmacology** 1990;40(4):218–23

Cocaine and lidocaine interfere with epinephrine-induced changes in intracellular calcium concentration and glucose efflux from rat hepatocytes. Engelking LR, et al. **Pharmacology** 1990;40(3):129–36

Cocaine and body temperature in the rat: effects of ambient temperature. Lomax P, et al. **Pharmacology** 1990; 40(2):103–9

Amphetamine and cocaine induce drug-specific activation of the c-fos gene in striosome-matrix compartments and limbic subdivisions of the striatum. Graybiel AM, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6912–6

Interactions of nimodipine and cocaine on endogenous catecholamines in the squirrel monkey. Trouvé R, et al. **Proc Soc Exp Biol Med** 1990 Mar;193(3):171–5

Effects of cocaine on sensory evoked potentials recorded from hypothalamus and limbic structures. Dafny N, et al. **Prog Neuropsychopharmacol** 1979;3(4):353–60

Intravenous cocaine self-administration in rats is reduced by dietary L-tryptophan. Carroll ME, et al. **Psychopharmacology (Berl)** 1990;100(3):293–300

Acute and chronic effects of cocaine on isolation-induced aggression in mice. Darmani NA, et al. **Psychopharmacology (Berl)** 1990;102(1):37–40

Directional running in mice: effects of cocaine and chlorpromazine. Dews PB. **Psychopharmacology (Berl)** 1990;101(2):190–5

Cocaine produces locomotor stimulation in SS but not LS mice: relationship to dopaminergic function. George FR, et al. **Psychopharmacology (Berl)** 1990;101(1):18–22

Cocaine enhances memory storage in mice. Introini-Collison IB, et al. **Psychopharmacology (Berl)** 1989;99(4):537–41

Effects of bromocriptine and desipramine on behavior maintained by cocaine or food presentation in rhesus monkeys. Kleven MS, et al. **Psychopharmacology (Berl)** 1990;101(2):208–13

Break-points on a progressive ratio schedule reinforced by intravenous cocaine increase following depletion of forebrain serotonin. Loh EA, et al. **Psychopharmacology (Berl)** 1990;101(2):262–6

Bromocriptine self-administration and bromocriptine-reinstatement of cocaine-trained and heroin-trained lever pressing in rats. Wise RA, et al. **Psychopharmacology (Berl)** 1990;100(3):355–60

Cocaine produces low dose locomotor depressant effects in mice. George FR. **Psychopharmacology (Berlin)** 1989; 99(2):147–50

Magnesium alters the potency of cocaine and haloperidol on mouse aggression. Kantak KM. **Psychopharmacology (Berlin)** 1989;99(2):181–8

Placebo responses to cocaine administration in humans: effects of prior administrations and verbal instructions. Muntaner C, et al. **Psychopharmacology (Berlin)** 1989; 99(2):282–6

Regulation of dopamine and serotonin synthesis by acute administration of cocaine. Galloway MP. **Synapse** 1990; 6(1):63–72

Effect of acute and daily cocaine treatment on extracellular dopamine in the nucleus accumbens. Kalivas PW, et al. **Synapse** 1990;5(1):48–58

Neurochemical interactions of cocaine with dopaminergic systems. Galloway MP. **Trends Pharmacol Sci** 1988 Dec; 9(12):451–4

[Cocaine and disturbances of adrenergic neurotransmission] Nahas G, et al. **Bull Acad Natl Med** 1989 Dec; 173(9):1199–206; discussion 1206–8 (29 ref.) (Eng. Abstr.) **(Fre)**

POISONING

Cocaine-induced small-bowel perforation [letter] Endress C, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1346–7

Cocaine toxicity in toddlers. Dinnies JD, et al. **Am J Dis Child** 1990 Jul;144(7):743–4

Respiratory pattern abnormalities and prenatal cocaine exposure [letter] Hunt CE. **Am J Dis Child** 1990 Feb; 144(2):138–9

Application of a model of exertional heatstroke pathophysiology to cocaine intoxication [letter] Armstrong LE, et al. **Am J Emerg Med** 1990 Mar;8(2):178

Severe hyperlactemia and metabolic acidosis following cocaine use and exertion [letter] Bethke RA, et al. **Am J Emerg Med** 1990 Jul;8(4):369–70

Cocaine-related maternal death. Burkett G, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):40–1

Reversible cardiomyopathy associated with cocaine intoxication. Chokshi SK, et al. **Ann Intern Med** 1989 Dec 15;111(12):1039–40

The history of cocaine toxicity. Karch SB. **Hum Pathol** 1989 Nov;20(11):1037–9

Cocaine-associated fetal death in utero. Apple FS, et al. **J Anal Toxicol** 1990 Jul-Aug;14(4):259–60

Vascular lesions in intestinal ischemia induced by cocaine-alcohol abuse: report of a fatal case due to overdose. Garfia A, et al. **J Forensic Sci** 1990 May; 35(3):740–5

The microscopic pathology of the liver in fatal cocaine intoxication. Copeland AR. **J Forensic Sci Soc** 1989 May-Jun;29(3):185–9

Cocaine and sudden cardiac death. Pallasch TJ, et al. **J Oral Maxillofac Surg** 1989 Nov;47(11):1188–91 (44 ref.)

More on rhabdomyolysis associated with cocaine intoxication [letter] Fox AW. **N Engl J Med** 1989 Nov 2;321(18):1271

Cocaine-induced dental erosions [letter] Krutchkoff DJ, et al. **N Engl J Med** 1990 Feb 8;322(6):408

Cocaine-induced seizures. Pascual-Leone A, et al. **Neurology** 1990 Mar;40(3 Pt 1):404–7

Accidental cocaine intoxication in a nine-month-old infant: presentation and treatment. Garland JS, et al. **Pediatr Emerg Care** 1989 Dec;5(4):245–7

Acute toxicity from oral ingestion of crack cocaine: a report of four cases. Riggs D, et al. **Pediatr Emerg Care** 1990 Mar;6(1):24–6

Esophagitis, epiglottitis, and cocaine alkaloid ("crack"): "accidental" poisoning or child abuse? Kharasch S, et al. **Pediatrics** 1990 Jul;86(1):117–9

Generalized seizures in an infant due to environmentally acquired cocaine. Rivkin M, et al. **Pediatrics** 1989 Dec; 84(6):1100–2

[Cocaine poisoning and rhabdomyolysis (letter)] García

Román JM, et al. **Med Clin (Barc)** 1989 Sep 30;93(9):357 **(Spa)**

SUPPLY & DISTRIBUTION

Social impact of crack dealing in the inner-city. Johnson BD, et al. **NIDA Res Monogr** 1989;95:326-7

THERAPEUTIC USE

A comparison of cocaine, lidocaine with epinephrine, and oxymetazoline for prevention of epistaxis on nasotracheal intubation. Katz RI, et al. **J Clin Anesth** 1990 Jan-Feb; 2(1):16-20

TOXICITY

Potentiation of cocaine-mediated hepatotoxicity by acute and chronic ethanol. Boyer CS, et al. **Alcoholism (N Y)** 1990 Feb;14(1):28-31

Pregnancy increases cardiovascular toxicity to cocaine. Woods JR Jr, et al. **Am J Obstet Gynecol** 1990 Feb; 162(2):529-33

Prenatal inhibition of hypothalamic sex steroid uptake by cocaine: effects on neurobehavioral sexual differentiation in male rats. Raum WJ, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):230-6

Electrocardiographic evidence for cocaine cardiotoxicity in cat. Crumb WJ Jr, et al. **Can J Physiol Pharmacol** 1990 May;68(5):622-5

Endocrine and neurochemical actions of cocaine. Di Paolo T, et al. **Can J Physiol Pharmacol** 1989 Sep;67(9):1177-81 (41 ref.)

The carcinogenic potential of cocaine. Rosenkranz HS, et al. **Cancer Lett** 1990 Jul 31;52(3):243-6

Mechanism of cocaine-induced myocardial depression in dogs. Fraker TD Jr, et al. **Circulation** 1990 Mar; 81(3):1012-6

Mechanisms responsible for the cardiotoxic effects of cocaine. Billman GE. **FASEB J** 1990 May;4(8):2469-75 (49 ref.)

Prenatal cocaine exposure fails to modify neurobehavioral responses and the striatal dopaminergic system in newborn rats. Fung YK, et al. **Gen Pharmacol** 1989;20(5):689-93

The effect of haloperidol in cocaine and amphetamine intoxication. Derlet RW, et al. **J Emerg Med** 1989 Nov-Dec;7(6):633-7

Cocaine-mediated impairment of cardiac conduction in the dog: a potential mechanism for sudden death after cocaine. Kabas JS, et al. **J Pharmacol Exp Ther** 1990 Jan; 252(1):185-91

Effect of chronic cocaine administration and cocaine withdrawal on coronary flow rate and heart rate responses to epinephrine and cocaine in isolated perfused rat hearts. Avakian EV, et al. **Life Sci** 1990;46(22):1569-74

Noradrenergic mechanisms appear not to be involved in cocaine-induced seizures and lethality. Jackson HC, et al. **Life Sci** 1990;47(4):353-9

Central mechanisms of action involved in cocaine-induced tachycardia. Jones LF, et al. **Life Sci** 1990;46(10):723-8

Modulation of the lethal effects of cocaine by cholinomimetics. Witkin JM, et al. **Life Sci** 1989; 45(24):2295-301

Development under the influence of cocaine. II. Comparison of the effects of maternal cocaine and associated undernutrition on brain myelin development in the offspring. Wiggins RC, et al. **Metab Brain Dis** 1990 Jun; 5(2):101-9

Development under the influence of cocaine. I. A comparison of the effects of daily cocaine treatment and resultant undernutrition on pregnancy and early growth in a large population of rats. Wiggins RC, et al. **Metab Brain Dis** 1990 Jun;5(2):85-99

Cocaine disrupts estrous cyclicity and alters the reproductive neuroendocrine axis in the rat. King TS, et al. **Neuroendocrinology** 1990 Jan;51(1):15-22

Anticonvulsant modification of cocaine-induced toxicity in the rat. Derlet RW, et al. **Neuropharmacology** 1990 Mar; 29(3):255-9

Prenatal cocaine exposure in the Long-Evans rat: I. Dose-dependent effects on gestation, mortality, and postnatal maturation. Church MW, et al. **Neurotoxicol Teratol** 1990 Jul-Aug;12(4):327-34

Prenatal cocaine exposure in the Long-Evans rat: II. Dose-dependent effects on offspring behavior. Church MW, et al. **Neurotoxicol Teratol** 1990 Jul-Aug;12(4):335-43

Prenatal cocaine exposure in the Long-Evans rat: III. Developmental effects on the brainstem auditory-evoked potential. Church MW, et al. **Neurotoxicol Teratol** 1990 Jul-Aug;12(4):345-51

Paternal behavioral mutagenesis. Abel EL. **Neurotoxicology** 1989 Fall;10(3):335-45

Potential neurotoxic effects of self-administered cocaine on dopamine receptors. Goeders NE, et al. **NIDA Res Monogr** 1989;95:504-5

Amplitude modulated frequency response during acute cocaine intoxication in rabbits. O'Connor S, et al. **NIDA Res Monogr** 1989;95:331-2

Neurobehavioral teratogenicity of gestational cocaine exposure. Spear LP, et al. **NIDA Res Monogr** 1989;95:232-8

Acute cocaine toxicity: antagonism by agents interacting with adrenoceptors. Derlet RW, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):225-31

Developmental expression of cocaine hepatotoxicity in the mouse. Smolen TN, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):333-8

Direct embryotoxicity of cocaine in rats: effects on mitochondrial activity, cardiac function, and growth and development in vitro. Fantel AG, et al. **Teratology** 1990 Jul;42(1):35-43

Cocaine toxicity in cultured rat hepatocytes. Roberts SM, et al. **Toxicol Lett** 1990 Feb;50(2-3):283-8

Cocaine hepatotoxicity in cultured liver slices: a species comparison. Connors S, et al. **Toxicology** 1990 Apr 17; 61(2):171-83

URINE

TAC topical anesthesia produces positive urine tests for cocaine. Altieri M, et al. **Ann Emerg Med** 1990 May; 19(5):577-9

Urinary excretion of cocaine [letter; comment] Burke WM, et al. **Ann Intern Med** 1990 Apr 1;112(7):548-9 Comment on: Ann Intern Med 1989 Dec 1;111(11):876-80.

Variations in abundance of the molecular ion of the derivatized cocaine metabolite benzoylecgonine. Bodor G, et al. **Clin Chem** 1990 May;36(5):742-7

Cocaine metabolism in man: identification of four previously unreported cocaine metabolites in human urine. Zhang JY, et al. **J Anal Toxicol** 1990 Jul-Aug;14(4):201-5

Validity testing of commercial urine cocaine metabolite assays: IV. Evaluation of the EMIT d.a.u. cocaine metabolite assay in a quantitative mode for detection of cocaine metabolite. Cone EJ, et al. **J Forensic Sci** 1990 Jul;35(4):786-91

Discussion of "Validity Testing of Commercial Urine Cocaine Metabolite Assays: Parts I and II" [letter] Spiehler V, et al. **J Forensic Sci** 1990 Mar;35(2):230-2

Topical anesthesia using TAC (tetracaine, adrenalin, and cocaine) produces "dirty urine": a word of caution [letter; comment] Schwartz RH, et al. **Otolaryngol Head Neck Surg** 1990 Feb;102(2):200-1 Comment on: Otolaryngol Head Neck Surg 1989 Jan;100(1):78-9.

Evaluation of the EZ-SCREEN enzyme immunoassay test for detection of cocaine and marijuana metabolites in urine specimens. Schwartz RH, et al. **Pediatr Emerg Care** 1990 Jun;6(2):147-9

COCARBOXYLASE see **THIAMINE PYROPHOSPHATE**

COCARCINOGENESIS

Altered hepatic foci: their role in murine hepatocarcinogenesis. Pitot HC. **Annu Rev Pharmacol Toxicol** 1990;30:465-500 (247 ref.)

Possible antitumor promoter in the glandular stomach: calcium chloride. Furihata C, et al. **Basic Life Sci** 1990; 52:395-400

Suppression of tumor promotion by inhibitors of poly(ADP)ribose formation. Troll W, et al. **Basic Life Sci** 1990;52:225-32 (43 ref.)

Assessment of ornithine decarboxylase (ODC) induction potential of cutting oils over mouse skin. Gupta KP, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):715-20

Enhancement of tumor-initiating activity of DMBA by the carbamate fungicide mancozeb. Mehrotra NK, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):39-45

Promoting effect of basic lead acetate administration on the tumorigenesis of lung in N-nitrosodimethylamine-treated mice. Sakai K, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):707-14

Possible cofactors for the development of AIDS-related neoplasms. Holmberg SD. **Cancer Detect Prev** 1990; 14(3):331-6 (46 ref.)

Synergistic effects of azathioprine and ultraviolet light detected by sister chromatid exchange analysis. Dalton A, et al. **Cancer Genet Cytogenet** 1990 Mar;45(1):93-9

Partial hepatectomy is a promoter of hepatocarcinogenesis in C57BL/6J male mice but not in C3H/HeJ male mice. Hanigan MH, et al. **Carcinogenesis** 1990 Apr;11(4):589-94

Modulation of the co-promoting activity of gamma interferon in SENCAR and C57BL/6 mouse skin by difluoromethylornithine and the scheduling and duration of interferon treatment. Reiners JJ Jr, et al. **Carcinogenesis** 1990 Jan;11(1):129-37

Cocarcinogenesis in vitro using Balb/3T3 cells and aromatic hydrocarbon cocarcinogens. Atchison M, et al. **Cell Biol Toxicol** 1985 Oct;1(4):323-31

Inhibitory effects of flavonol glycosides on 12-O-tetradecanoylphorbol-13-acetate-induced tumor promotion. Yasukawa K, et al. **Chem Pharm Bull (Tokyo)** 1990 Mar;38(3):774-6

Evidence of potential tumour-initiating and tumour-promoting activities of hickory smoke condensate when given alone or with nitrite to rats. Ohshima H, et al. **Food Chem Toxicol** 1989 Aug;27(8):511-6

Two-stage models of carcinogenesis, classification of agents, and design of experiments. Portier CJ, et al. **Fundam Appl Toxicol** 1990 Apr;14(3):444-60

Possible role of acetaldehyde in ethanol-related rectal cocarcinogenesis in the rat. Seitz HK, et al. **Gastroenterology** 1990 Feb;98(2):406-13

Effects of postnatal administration of tumour-promoting barbiturates on the development of tumours initiated by prenatal exposure of fetal rats and mice to N-alkylnitrosoureas. Diwan BA, et al. **IARC Sci Publ** 1989; (96):75-80

Possible role of genetic predisposition in multigeneration carcinogenesis. Mohr U, et al. **IARC Sci Publ** 1989; (96):93-103 (44 ref.)

Role of oncogene activation during prenatal (transplacental) initiation and postnatal promotion of mouse skin tumours. Yamasaki H, et al. **IARC Sci Publ** 1989;(96):221-37 (49 ref.)

Inhibition of soybean lipoxygenase and mouse skin tumor promotion by onion and garlic components. Belman S, et al. **J Biochem Toxicol** 1989 Fall;4(3):151-60

Biological assays for irritant, tumor-initiating and tumor-promoting activities. II. Standardized initiation/promotion protocol and semiquantitative estimation of promoting (or initiating) potencies in skin of NMRI mice. Schmidt R, et al. **J Cancer Res Clin Oncol** 1989;115(6):516-24

Effect of nicotine on 7,12-dimethylbenz[a]anthracene carcinogenesis in hamster cheek pouch. Chen YP, et al. **J Natl Cancer Inst** 1990 May 16;82(10):861-4

Histogenesis of cervical adenocarcinoma with reference to human papillomavirus-18 as a carcinogen. Okagaki T, et al. **J Reprod Med** 1989 Sep;34(9):639-44

Implications of the carcinogenic hazard of low doses of three hepatocarcinogenic N-nitrosamines. Berger MR, et al. **Jpn J Cancer Res** 1990 Jun-Jul;81(6-7):598-606

Herpes simplex virus enhances the 7,12-dimethylbenz[a]anthracene (DMBA)-induced carcinogenesis and amplification and overexpression of c-erb-B-1 proto-oncogene in hamster buccal pouch epithelium. Oh JS, et al. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4):428-35

Genetic and cellular basis of multistep carcinogenesis. Boyd JA, et al. **Pharmacol Ther** 1990;46(3):469-86 (248 ref.)

Strain-dependent effects of phenobarbital on liver tumor promotion in inbred mice. Diwan BA, et al. **Prog Clin Biol Res** 1990;331:69-83 (42 ref.)

Genetic and epigenetic promotion of murine hepatocarcinogenesis. Drinkwater NR, et al. **Prog Clin Biol Res** 1990;331:163-76

The androgen receptor and liver tumor development in mice. Kemp CJ, et al. **Prog Clin Biol Res** 1990;331:203-14

Proto-oncogene activation in multistage murine hepatocarcinogenesis. Pitot HC. **Prog Clin Biol Res** 1990; 331:311-24 (100 ref.)

Cell-to-cell communication: relationship of stem cells to the carcinogenic process. Trosko JE, et al. **Prog Clin Biol Res** 1990;331:259-76 (120 ref.)

Perinatal mouse liver carcinogenesis as a sensitive carcinogenesis model and the role of the sex hormonal environment in tumor development. Vesselinovitch SD. **Prog Clin Biol Res** 1990;331:53-68 (41 ref.)

Liver tumor promoters and other mouse liver carcinogens. Ward JM, et al. **Prog Clin Biol Res** 1990;331:85-108 (81 ref.)

Epigenetic mechanisms of liver tumor promotion. Williams GM. **Prog Clin Biol Res** 1990;331:131-45; discussion 147-8 (73 ref.)

No enhancement by phenobarbital of the hepatocarcinogenicity of a choline-devoid diet in the rat. Saito R, et al. **Res Commun Chem Pathol Pharmacol** 1990 Aug;69(2):197-207

Ciclosporin inhibits phorbol-ester-induced hyperplastic transformation and tumor promotion in mouse skin probably by suppression of Ca2+/calmodulin-dependent processes such as phosphorylation of elongation factor 2. Gschwendt M, et al. **Skin Pharmacol** 1988;1(2):84-92

Chromosomal aberrations as a contributing factor for tumor promotion in the mouse skin. Kaina B. **Teratogenesis Carcinog Mutagen** 1989;9(6):331-48 (88 ref.)

Susceptibility to 1,3-butadiene-induced leukemogenesis correlates with endogenous ecotropic retroviral background in the mouse. Irons RD, et al. **Toxicol Appl Pharmacol** 1989 Oct;101(1):170-6

[Studies on dichlorvos (DDVP). III. Testing of dichlorvos for cocarcinogenic activity in mice] Horn KH, et al. **Arch Geschwulstforsch** 1990;60(2):117-24 (Eng. Abstr.) **(Ger)**

[Induction of urinary bladder urothelial cancers in the rabbit by dibutylnitrosamine with an artificial bladder calculus as cocarcinogen] Bornhof C, et al. **Urologe [A]** 1989 Nov; 28(6):339-43 (Eng. Abstr.) **(Ger)**

[Smoking and occupational pollutants as competing causes of lung diseases] Maintz G, et al. **Z Arztl Fortbild (Jena)** 1989;83(21):1065-9 (25 ref.) **(Ger)**

[Combined effects of tobacco smoking, occupational factors and atmospheric air pollution as risk factors of bronchial carcinoma. Results of retrospective studies in Cracow] Jedrychowski W, et al. **Nowotwory** 1989 Apr-Jun; 39(2):65-75 (Eng. Abstr.) **(Pol)**

[Neuropeptides and neoplasms] Pawlikowski M. **Pol Arch Med Wewn** 1988 Apr;79(4):177-80 **(Pol)**

[Problem of cigarette smoking in the epidemiological studies of lung cancer risks among industrial populations] Szeszenia-Dabrowska N, et al. **Przegl Epidemiol** 1989; 43(3):283-8 (Eng. Abstr.) **(Pol)**

[Multiple primary neoplasms] Poborski W, et al. **Wiad Lek** 1989 Apr 30;42(8):493-7 (Eng. Abstr.) **(Pol)**

[Complexes of phorbol tumor promoters with protein kinase C] Kozhemiakina OV, et al. **Biokhimiia** 1990 Apr; 55(4):595-607 (41 ref.) (Eng. Abstr.) **(Rus)**

[The carcinogenic effect of 5-bromodeoxyuridine and its

amplification by x-rays in rats] Anisimov VN, et al. **Eksp Onkol** 1989;11(5):14–6 (Eng. Abstr.) **(Rus)**

[Modifying effect of the chemical components of dust on the induction of lung tumors by physical and chemical carcinogens (experimental study)] Knizhnikov VA, et al. **Gig Sanit** 1989 Sep;(9):18–21 (Eng. Abstr.) **(Rus)**

[Carcinogenic activity of nickel-containing welding aerosols in relation to their copper and manganese content] Gorba'n LN, et al. **Gig Tr Prof Zabol** 1989;(8):27–31 (Eng. Abstr.) **(Rus)**

COCCIDIA

Cryopreservation of Cryptosporidium sp. oocysts. Rossi P, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):68

ANALYSIS

Identification of isolate-specific sporozoite proteins of Cryptosporidium parvum by two-dimensional gel electrophoresis. Mead JR, et al. **Infect Immun** 1990 Jul; 58(7):2071–5

Identification of outer oocyst wall proteins of three Cryptosporidium (Apicomplexa: Cryptosporidiidae) species by 125I surface labeling. Tilley M, et al. **Infect Immun** 1990 Jan;58(1):252–3

CLASSIFICATION

Current concepts on the biology, evolution and taxonomy of tissue cyst-forming eimeriid coccidia. Tadros W, et al. **Adv Parasitol** 1982;20:293–468 (1031 ref.)

Cryptosporidiosis and immune enteropathy: a review. Ma P. **Curr Clin Top Infect Dis** 1987;8:99–153 (192 ref.)

Phylogenetic relationships of Cryptosporidium determined by ribosomal RNA sequence comparison. Johnson AM, et al. **Int J Parasitol** 1990 Apr;20(2):141–7

Coccidia (Apicomplexa) from heteromyid rodents in the southwestern United States, Baja California, and northern Mexico with three new species from Chaetodipus hispidus. Ford PL, et al. **J Parasitol** 1990 Jun;76(3):325–31

DRUG EFFECTS

Effects of ozone, chlorine dioxide, chlorine, and monochloramine on Cryptosporidium parvum oocyst viability. Korich DG, et al. **Appl Environ Microbiol** 1990 May;56(5):1423–8

GROWTH & DEVELOPMENT

Intestinal and extraintestinal life cycles of eimeriid coccidia. Ball SJ, et al. **Adv Parasitol** 1989;28:1–54 (202 ref.)

Recent advances in the knowledge of the biology of the cyst-forming coccidia. Rommel M. **Angew Parasitol** 1989 Aug;30(3):173–83 (77 ref.)

Experimental cryptosporidiosis in a primate model. Miller RA, et al. **J Infect Dis** 1990 Feb;161(2):312–5

[Cryptosporidiosis. Characterization of a new infection with special regard to water as the source of infection] Exner M, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):13–25 (48 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Immune response to cryptosporidiosis in Philippine children. Laxer MA, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):131–9

Resistance of calves to Cryptosporidium parvum: effects of age and previous exposure. Harp JA, et al. **Infect Immun** 1990 Jul;58(7):2237–40

Kinetics of Cryptosporidium parvum sporozoite neutralization by monoclonal antibodies, immune bovine serum, and immune bovine colostrum. Perryman LE, et al. **Infect Immun** 1990 Jan;58(1):257–9

Cryptosporidium parvum (Apicomplexa: Cryptosporidiidae) oocyst and sporozoite antigens recognized by bovine colostral antibodies. Tilley M, et al. **Infect Immun** 1990 Sep;58(9):2966–71

Cryptosporidium parvum merozoites share neutralization-sensitive epitopes with sporozoites. Bjorneby JM, et al. **J Immunol** 1990 Jul 1;145(1):298–304

In vitro murine lymphocyte blastogenic responses to Cryptosporidium parvum. Whitmire WM, et al. **J Parasitol** 1990 Jun;76(3):450–2

Analysis of the kinetics, isotype and specificity of serum and coproantibody in lambs infected with Cryptosporidium parvum. Hill BD, et al. **Res Vet Sci** 1990 Jan;48(1):76–81

ISOLATION & PURIFICATION

Immunohistochemical diagnosis of Neospora caninum in tissue sections. Lindsay DS, et al. **Am J Vet Res** 1989 Nov; 50(11):1981–3

Evaluation of immunofluorescence techniques for detection of Cryptosporidium oocysts and Giardia cysts from environmental samples. Rose JB, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3189–96

Cryptosporidiosis—oocyst shedding and infection in household contacts. Perera J, et al. **Ceylon Med J** 1990 Mar;35(1):11–4

An unusual localization of developmental stages of Cryptosporidium parvum Tyzzer, 1912 in the cells of small intestine of a gnotobiotic piglet. Koudela B, et al. **Folia Parasitol (Praha)** 1989;36(3):219–22

Occurrence and localization of Cryptosporidium sp. in spontaneously infected pheasants (Phasianus colchicus L.). Pavlásek I, et al. **Folia Parasitol (Praha)** 1989;36(3):287–8

An enzyme immunoassay for detecting Cryptosporidium in faecal and environmental samples. Chapman PA, et al. **J Med Microbiol** 1990 Aug;32(4):233–7

Efficiency of sand filtration for removing cryptosporidium oocysts from water. Chapman PA, et al. **J Med Microbiol** 1990 Aug;32(4):243–5

Caryospora-associated dermatitis in dogs. Dubey JP, et al. **J Parasitol** 1990 Aug;76(4):552–6

An analysis of staining methods for the detection of Cryptosporidium spp. oocysts in water-related samples. Smith HV, et al. **Parasitology** 1989 Dec;99 Pt 3:323–7

[Cryptosporidium and candida in pediatric diarrhea in Abidjan] Koffi-Akoua G, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):451–7 (Eng. Abstr.) **(Fre)**

[Prevalence of cryptosporidiosis in infantile diarrhea in Casablanca (letter)] Guessous-Idrissi N, et al. **Presse Med** 1990 Mar 3;19(8):379 **(Fre)**

[Technics for identifying Cryptosporidium spp. in feces: synthetic review and personal experience on anti-HIV seropositive, AIDS-related complex and AIDS subjects] Ilardi I, et al. **Quad Sclavo Diagn** 1988 Jan–Dec; 24(1–4):133–9 (Eng. Abstr.) **(Ita)**

[Studies on Hepatocystis sp. in rhesus monkeys from Yunnan, China] Takenaka T, et al. **Jikken Dobutsu** 1990 Apr; 39(2):273–9 (Eng. Abstr.) **(Jpn)**

[A comparative study of coprological methods for identifying Cryptosporidium spp. oocysts] Lazăr L, et al. **Rev Ig [Bacteriol]** 1989 Oct–Dec;34(4):361–8 (Eng. Abstr.) **(Rum)**

PATHOGENICITY

The pathogenicity of Cryptosporidium parvum Tyzzer, 1912 and C. Baileyi Current, Upton et Haynes, 1986 for chickens. Palkovič L, et al. **Folia Parasitol (Praha)** 1989;36(3):209–17

Cryptosporidial infections in calves in Kanto District, Japan, and experimental infections in mice. Miyaji S, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):435–7

PHYSIOLOGY

Epidemiological aspects of human cryptosporidiosis. Casemore DP. **Epidemiol Infect** 1990 Feb;104(1):1–28 (203 ref.)

The role of tubificid oligochaetes in the transmission of Goussia carpelli. Steinhagen D, et al. **J Parasitol** 1990 Feb; 76(1):104–7

Destruction of bovine coccidial oocysts in simulated cattle yards by dry tropical winter weather. Parker RJ, et al. **Vet Parasitol** 1990 Mar;35(3):269–72

ULTRASTRUCTURE

Ultrastructural observations on different developmental stages of Goussia sinensis (Chen, 1955), a parasite of the silver carp (Hypophthalmichthys molitrix Valenciennes, 1844). Baska F, et al. **Acta Vet Hung** 1989;37(1–2):81–7

Ultrastructure of tachyzoites, bradyzoites and tissue cysts of Neospora caninum. Speer CA, et al. **J Protozool** 1989 Sep–Oct;36(5):458–63

Ultrastructure of sporozoites and zoites of Hammondia heydorni. Speer CA, et al. **J Protozool** 1989 Sep–Oct; 36(5):488–93

COCCIDIOIDES

DRUG EFFECTS

Activity of cilofungin against Coccidioides immitis: differential in vitro effects on mycelia and spherules correlated with in vivo studies. Galgiani JN, et al. **J Infect Dis** 1990 Oct;162(4):944–8

Killing of Coccidioides immitis by hypochlorous acid or monochloramine. Galgiani JN. **J Med Vet Mycol** 1990; 28(2):173–81

IMMUNOLOGY

Serology of coccidioidomycosis. Pappagianis D, et al. **Clin Microbiol Rev** 1990 Jul;3(3):247–68 (159 ref.)

Composition, serologic reactivity, and immunolocalization of a 120-kilodalton tube precipitin antigen of Coccidioides immitis. Cole GT, et al. **Infect Immun** 1990 Jan;58(1):179–88

Isolation of tube precipitin antibody-reactive fractions of Coccidioides immitis. Kruse D, et al. **Infect Immun** 1990 Jan;58(1):169–78

Purification and amino-terminal sequence analysis of the complement-fixing and precipitin antigens from Coccidioides immitis. Resnick S, et al. **J Clin Microbiol** 1990 Feb;28(2):385–8

ISOLATION & PURIFICATION

Disseminated coccidioidomycosis detected by percutaneous liver biopsy in a liver transplant recipient. Dodd LG, et al. **Am J Clin Pathol** 1990 Jan;93(1):141–4

Isolation of human fungi from soil and identification of two endemic areas of Cryptococcus neoformans and Coccidioides immitis. Rubinstein H, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jan–Feb;31(1):1–6

COCCIDIOIDIN see under **ANTIGENS, FUNGAL**

COCCIDIOIDOMYCOSIS

Coccidioidomycosis: office diagnosis and treatment [published erratum appears in Am Fam Physician 1990 Jul;42(1):44] Hedges E, et al. **Am Fam Physician** 1990 May; 41(5):1499–506

Coccidioides immitis: an unusual presentation. Bried JM, et al. **Orthopedics** 1990 Mar;13(3):345–7

CLASSIFICATION

Tuberculosis and coccidioidomycosis. A working classification of coccidioidal disease related to therapy based on differences between the two diseases. Winn WA. **Am Rev Respir Dis** 1967 Aug;96(2):229–36 (8 ref.)

COMPLICATIONS

Seronegative disseminated coccidioidomycosis in patients with HIV infection. Antoniskis D, et al. **AIDS** 1990 Jul; 4(7):691–3

Coccidioidomycosis of bone: a sequela of desert rheumatism. Bernreuter WK. **Arthritis Rheum** 1989 Dec;32(12):1608–10

DIAGNOSIS

An unusual complication of an open-head injury: coccidioidal meningitis. Morwood DT, et al. **Ann Plast Surg** 1989 Nov;23(5):437–41

Coccidioidal meningitis acquired during holidays in Arizona. Taylor GD, et al. **Can Med Assoc J** 1990 Jun 15; 142(12):1388–90

Pulmonary infiltrates, eosinophilia, and a facial skin nodule. Jacobs SE, et al. **Chest** 1990 Feb;97(2):476–8

Serology of coccidioidomycosis. Pappagianis D, et al. **Clin Microbiol Rev** 1990 Jul;3(3):247–68 (159 ref.)

[Serodiagnosis of blastomycosis and coccidioidomycosis] Ikemoto H. **Nippon Rinsho** 1990 Feb;48 Suppl:427–9 **(Jpn)**

DRUG THERAPY

Itraconazole treatment of coccidioidomycosis. NAIAD Mycoses Study Group. Graybill JR, et al. **Am J Med** 1990 Sep;89(3):282–90

Itraconazole therapy for chronic coccidioidal meningitis. Tucker RM, et al. **Ann Intern Med** 1990 Jan 15; 112(2):108–12

Efficacy of SCH39304 and fluconazole in a murine model of disseminated coccidioidomycosis. Clemons KV, et al. **Antimicrob Agents Chemother** 1990 May;34(5):928–30

Treatment of murine coccidioidal meningitis with SCH39304. Defaveri J, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):663–4

Comparison of fluconazole and SDZ89-485 for therapy of experimental murine coccidioidomycosis. Fierer J, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):13–6

Evaluation of nikkomycins X and Z in murine models of coccidioidomycosis, histoplasmosis, and blastomycosis. Hector RF, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):587–93

Therapeutic effect of the triazole Bay R 3783 in mouse models of coccidioidomycosis, blastomycosis, and histoplasmosis. Pappagianis D, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1132–8

Fluconazole in the treatment of persistent coccidioidomycosis. Catanzaro A, et al. **Chest** 1990 Mar; 97(3):666–9

Activity of cilofungin against Coccidioides immitis: differential in vitro effects on mycelia and spherules correlated with in vivo studies. Galgiani JN, et al. **J Infect Dis** 1990 Oct;162(4):944–8

Treatment of coccidioidal meningitis with fluconazole. Tucker RM, et al. **Rev Infect Dis** 1990 Mar–Apr;12 Suppl 3:S380–9

Cyclophosphamide effect on coccidioidomycosis in the rat. Remesar MC, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec;31(6):423–9

EPIDEMIOLOGY

Skin sensitivity to histolyn, spherulin, and PPD in the People's Republic of China. Baum GL, et al. **Chest** 1990 Jun;97(6):1356–9

Detection of fungi and other pathogens in immunocompromised patients by bronchoalveolar lavage in an area endemic for coccidioidomycosis. Sobonya RE, et al. **Chest** 1990 Jun;97(6):1349–55

Coccidioidomycosis: clinical update. Ampel NM, et al. **Rev Infect Dis** 1989 Nov–Dec;11(6):897–911 (188 ref.)

Isolation of human fungi from soil and identification of two endemic areas of Cryptococcus neoformans and Coccidioides immitis. Rubinstein H, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jan–Feb;31(1):1–6

A skin test survey of valley fever in Tijuana, Mexico. Fredrich BE. **Soc Sci Med** 1989;29(10):1217–27

MICROBIOLOGY

Giant forms of Blastomyces dermatitidis in the pulmonary lesions of blastomycosis. Potential confusion with Coccidioides immitis. Watts JC, et al. **Am J Clin Pathol** 1990 Apr;93(4):575–8

PARASITOLOGY

Disseminated coccidioidomycosis detected by percutaneous liver biopsy in a liver transplant recipient. Dodd LG, et al. **Am J Clin Pathol** 1990 Jan;93(1):141–4

PATHOLOGY

Disseminated coccidioidomycosis. Jitsukawa K, et al. **J Dermatol** 1990 Feb;17(2):120–6

VETERINARY

Disseminated coccidioidomycosis in a horse with osteomyelitis. Kramme PM, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):106–9

Fluconazole therapy for coccidioidomycosis in Japanese macaques. Graybill JR, et al. **Rev Infect Dis** 1990 Mar–Apr; 12 Suppl 3:S286–90

COCCIDIOSIS

[A case from practice (173). AIDS IV C-1 with Isospora belli enteritis. Status following Pneumocystis carinii pneumonia. Bactrim allergy] Hilti P. **Schweiz Rundsch Med Prax** 1990 Apr 17;79(16):505–6 (Ger)

COMPLICATIONS

Novel organism associated with chronic diarrhoea in AIDS [letter] Hart AS, et al. **Lancet** 1990 Jan 20;335(8682):169–70

Isospora belli and the acquired immunodeficiency syndrome [letter; comment] Sorvillo F, et al. **N Engl J Med** 1990 Jan 11;322(2):131–2 Comment on: N Engl J Med 1989 Apr 20;320(16):1044–7.

[Treatment with doxycycline and nifuroxazide of Isospora belli infection in AIDS] Meyohas MC, et al. **Pathol Biol (Paris)** 1990 Jun;38(5 (Pt 2)):589–91 (Eng. Abstr.) (Fre)

DRUG THERAPY

Possible mode of action of toltrazuril: studies on two Eimeria species and mammalian and Ascaris suum enzymes. Harder A, et al. **Parasitol Res** 1989;76(1):8–12

[Treatment with doxycycline and nifuroxazide of Isospora belli infection in AIDS] Meyohas MC, et al. **Pathol Biol (Paris)** 1990 Jun;38(5 (Pt 2)):589–91 (Eng. Abstr.) (Fre)

ENZYMOLOGY

Effects of Eimeria labbeana and E. stiedai infection on the activity of some enzymes in the serum and liver of their hosts. Abdel-Ghaffar F, et al. **Parasitol Res** 1990; 76(5):440–3

ETIOLOGY

Case report—the acquired immunodeficiency syndrome and isospora belli infection. Chew SK, et al. **Singapore Med J** 1989 Aug;30(4):404–5

ATLL complicated by strongyloidiasis and isosporiasis: case report. Massey AC, et al. **Va Med** 1990 Summer; 117(7):311–6

IMMUNOLOGY

Effect of in vivo T-cell depletion on the effector T-cell function of immunity to Eimeria falciformis. Stiff MI, et al. **Infect Immun** 1990 Jun;58(6):1496–9

Cellular immune responses to pathogens in the chicken. Bhogal BS. **Prog Clin Biol Res** 1989;307:81–104

METABOLISM

Serum and liver zinc, copper, and iron in chicks infected with Eimeria acervulina or Eimeria tenella. Richards MP, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:207–19

PARASITOLOGY

Intestinal and extraintestinal life cycles of eimeriid coccidia. Ball SJ, et al. **Adv Parasitol** 1989;28:1–54 (202 ref.)

Current concepts on the biology, evolution and taxonomy of tissue cyst-forming eimeriid coccidia. Tadros W, et al. **Adv Parasitol** 1982;20:293–468 (1031 ref.)

Recent advances in the knowledge of the biology of the cyst-forming coccidia. Rommel M. **Angew Parasitol** 1989 Aug;30(3):173–83 (77 ref.)

Transfer of extraintestinal stages of Eimeria vermiformis in the mouse. Ball SJ, et al. **J Parasitol** 1990 Jun;76(3):424–5

PATHOLOGY

Interaction between Eimeria uzura infection and aflatoxicosis in Japanese quail (Coturnix coturnix japonica). Rao JR, et al. **Vet Parasitol** 1990 Mar;35(3):259–67

PREVENTION & CONTROL

Vaccination of chickens with recombinant E. tenella antigen alone or in combination with a subclinical exposure induces cross protective immunity against coccidiosis. Bhogal BS, et al. **Prog Clin Biol Res** 1989;307:131–46

Application of a novel recombinant Eimeria tenella antigen in a vaccine to protect broiler chickens from coccidiosis. Miller GA, et al. **Prog Clin Biol Res** 1989;307:117–30

TRANSMISSION

Isospora felis: possible evidence for transmission of parasites from chronically infected mother cats to kittens. Omata Y, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):665–6

VETERINARY

Ultrastructural observations on different developmental stages of Goussia sinensis (Chen, 1955), a parasite of the silver carp (Hypophthalmichthys molitrix Valenciennes, 1844). Baska F, et al. **Acta Vet Hung** 1989;37(1–2):81–7

Interaction of T-2 fusariotoxin and monensin in broiler chickens infected with Coccidia. Ványi A, et al. **Acta Vet Hung** 1989;37(4):327–33

Immunohistochemical diagnosis of Neospora caninum in tissue sections. Lindsay DS, et al. **Am J Vet Res** 1989 Nov; 50(11):1981–3

Avian eimeria: invasion in foreign host birds and generation of partial immunity against coccidiosis. Augustine PC, et al. **Avian Dis** 1990 Jan–Mar;34(1):196–202

An outbreak of Eimeria necatrix coccidiosis in breeder pullets: analysis of immediate and possible long-term effects on performance. McDougald LR, et al. **Avian Dis** 1990 Apr–Jun;34(2):485–7

Efficacy of toltrazuril and clazuril against experimental infections with Eimeria labbeana and E. columbarum in racing pigeons. Vercruysse J. **Avian Dis** 1990 Jan–Mar; 34(1):73–9

Some remarks on the prevalence and species composition of hare coccidia. Pakandl M. **Folia Parasitol (Praha)** 1990; 37(1):35–42

Double alteration of the small intestine in conventional and gnotobiotic piglets experimentally infected with the coccidium Isospora suis (Apicomplexa, Eimeriidae). Vítovec J, et al. **Folia Parasitol (Praha)** 1990;37(1):21–33

Observations on the endogenous stages of Eimeria crandallis in domestic lambs (Ovis aries). Gregory MW, et al. **Int J Parasitol** 1989 Dec;19(8):907–14

Endogenous stages of Eimeria arvicanthi infecting the field rat Arvicanthis niloticus niloticus from Egypt. Abdel-Ghaffar F, et al. **J Egypt Soc Parasitol** 1990 Jun; 20(1):281–7

Caryospora-associated dermatitis in dogs. Dubey JP, et al. **J Parasitol** 1990 Aug;76(4):552–6

Anti-coccidial activity of 2-picoline, 6-amino-4-nitro-, 1-oxide. Folz SD, et al. **J Parasitol** 1989 Oct;75(5):696–701

Coccidia (Apicomplexa) from heteromyid rodents in the southwestern United States, Baja California, and northern Mexico with three new species from Chaetodipus hispidus. Ford PL, et al. **J Parasitol** 1990 Jun;76(3):325–31

Description of the oocysts of Eimeria paludosa (Apicomplexa: Eimeriidae) from Fulica americana (Aves: Gruiformes), with comments on synonyms of eimerian species from related birds. McAllister CT, et al. **J Parasitol** 1990 Feb;76(1):27–9

Three new species of Eimeria (Apicomplexa: Eimeriidae) from Apalone spinifera pallidus (Testudines: Trionychidae) in Texas, with a redescription of E. amydae. McAllister CT, et al. **J Parasitol** 1990 Aug;76(4):481–6

Isospora daphnensis n. sp. (Apicomplexa: Eimeriidae) from the medium ground finch (Geospiza fortis) from the Galapagos Islands. McQuistion TE. **J Parasitol** 1990 Feb; 76(1):30–2

The role of tubificid oligochaetes in the transmission of Goussia carpelli. Steinhagen D, et al. **J Parasitol** 1990 Feb; 76(1):104–7

Ultrastructure of tachyzoites, bradyzoites and tissue cysts of Neospora caninum. Speer CA, et al. **J Protozool** 1989 Sep–Oct;36(5):458–63

Ultrastructure of sporozoites and zoites of Hammondia heydorni. Speer CA, et al. **J Protozool** 1989 Sep–Oct; 36(5):488–93

Pulmonary lesions in disseminated visceral coccidiosis of sandhill and whooping cranes. Novilla MN, et al. **J Wildl Dis** 1989 Oct;25(4):527–33

Diagnostic exercise: wasting syndrome in a flock of Japanese quail. Feldman SH, et al. **Lab Anim Sci** 1990 Jul; 40(4):409–10

Prevalence and distribution of bovine coccidia in Japan. Oda K, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):71–7

Selection and characterization of a precocious line of Eimeria intestinalis, an intestinal rabbit coccidium. Licois D, et al. **Parasitol Res** 1990;76(3):192–8

Eimeria tenella, E. acervulina and E. maxima: studies on the development of resistance to diclazuril and other anticoccidial drugs in the chicken. Chapman HD. **Parasitology** 1989 Oct;99 Pt 2:189–92

Genetically engineered antigen confers partial protection against avian coccidial parasites. Danforth HD, et al. **Poult Sci** 1989 Dec;68(12):1643–52

Diclazuril, a new broad-spectrum anticoccidial for chickens. 3. Floor-pen trials. Vanparijs O, et al. **Poult Sci** 1990 Jan; 69(1):60–4

Interactive effects of sodium zeolite A (Ethacal) and monensin in uninfected and Eimeria acervulina-infected chicks. Ward TL, et al. **Poult Sci** 1990 Feb;69(2):276–80

Effect of dietary sodium zeolite A and excess calcium on growth and tibia calcium and phosphorus concentration in uninfected and Eimeria acervulina-infected chicks. Watkins KL, et al. **Poult Sci** 1989 Sep;68(9):1236–40

Anticoccidial effect of monensin against Eimeria mitis and Eimeria dispersa. Watkins KL, et al. **Poult Sci** 1990 Jun; 69(6):1009–11

Dual infections of Eimeria tenella and Escherichia coli in chickens. Nakamura K, et al. **Res Vet Sci** 1990 Jul; 49(1):125–6

Concurrent infection of enterocytes with Eimeria scabra and other enteropathogens in swine. Koudela B, et al. **Vet Parasitol** 1990 Feb;35(1–2):71–7

Extraintestinal stages of Eimeria bovis in calves and attempts to induce relapse of clinical disease. Lindsay DS, et al. **Vet Parasitol** 1990 May;36(1–2):1–9

Prevalence of Eimeria species in cattle in Kenya. Munyua WK, et al. **Vet Parasitol** 1990 Feb;35(1–2):163–8

The use of an enzyme-linked immunosorbent assay for estimation of the immune status of chickens artificially immunized against coccidiosis. Onaga H, et al. **Vet Parasitol** 1989 Oct;33(3–4):199–205

Efficacy of diclazuril in the control of intestinal coccidiosis in rabbits. Vanparijs O, et al. **Vet Parasitol** 1989 Dec; 34(3):185–90

Monensin and ovine toxoplasmosis [letter] Ellis KJ, et al. **Vet Rec** 1990 Jan 27;126(4):92–3

Anticoccidial efficacy of diclazuril in pheasants. Vanparijs O, et al. **Vet Rec** 1990 Apr 7;126(14):332–3

A study of the life cycle of Eimeria praecox, Johnson 1930. Salisch H. **Zentralbl Veterinarmed [B]** 1990 Jul;37(5):363–8

[Mucus synthesis in the goblet cells of the small intestine in experimental infection with the coccidium Isospora suis in piglets] Kudweis M, et al. **Vet Med (Praha)** 1989 Dec; 34(12):727–34 (Eng. Abstr.) (Cze)

[Morphometric analysis of the activity of alkaline phosphatase in the small intestine of piglets infected with the coccidium Isospora suis] Kudweis M, et al. **Vet Med (Praha)** 1990 Apr;35(4):217–29 (Eng. Abstr.) (Cze)

[Activity of mucosubstances and the goblet cell count in the large intestine of piglets infected with the coccidium, Isospora suis] Kudweis M, et al. **Vet Med (Praha)** 1990 Jan;35(1):21–9 (Eng. Abstr.) (Cze)

[Subclinical coccidiosis in broilers and pullets] Salisch H, et al. **DTW Dtsch Tierarztl Wochenschr** 1989 Nov–Dec; 96(10):493–6 (Eng. Abstr.) (Ger)

COCCIDIOSTATS

ADVERSE EFFECTS

Production and egg-quality responses of White Leghorn layers to anticoccidial agents. Jones JE, et al. **Poult Sci** 1990 Mar;69(3):378–87

ISOLATION & PURIFICATION

CP-84,657, a potent polyether anticoccidial related to portmicin and produced by Actinomadura sp. Dirlam JP, et al. **J Antibiot (Tokyo)** 1990 Jun;43(6):668–79

PHARMACOLOGY

Anti-coccidial activity of 2-picoline, 6-amino-4-nitro-, 1-oxide. Folz SD, et al. **J Parasitol** 1989 Oct;75(5):696–701

Evaluation of anti-coccidial drugs' inhibition of Neospora caninum development in cell cultures. Lindsay DS, et al. **J Parasitol** 1989 Dec;75(6):990–2

Possible mode of action of toltrazuril: studies on two Eimeria species and mammalian and Ascaris suum enzymes. Harder A, et al. **Parasitol Res** 1989;76(1):8–12

Eimeria tenella, E. acervulina and E. maxima: studies on the development of resistance to diclazuril and other anticoccidial drugs in the chicken. Chapman HD. **Parasitology** 1989 Oct;99 Pt 2:189–92

Reproduction responses of broiler-breeders to anticoccidial agents. Jones JE, et al. **Poult Sci** 1990 Jan;69(1):27–36

Single and combination effects of administering salinomycin and aflatoxin to broiler chicks. Pearson SA, et al. **Poult Sci** 1990 May;69(5):849–51

[The compatibility of the new ionophore-coccidiostats with other chemotherapeutics in broilers] Laczay P, et al. **DTW Dtsch Tierarztl Wochenschr** 1989 Oct;96(9):449–51 (Eng. Abstr.) (Ger)

POISONING

Salinomycin poisoning in point-of-lay turkeys. Griffiths GL, et al. **Aust Vet J** 1989 Oct;66(10):326–9

[Poisoning due to ionophore anticoccidial drugs in poultry] Braunius WW. **Tijdschr Diergeneeskd** 1989 Sep 15; 114(18):933–8 (Eng. Abstr.) (Dut)

THERAPEUTIC USE

Efficacy of toltrazuril and clazuril against experimental infections with Eimeria labbeana and E. columbarum in racing pigeons. Vercruysse J. **Avian Dis** 1990 Jan–Mar; 34(1):73–9

Immunotherapeutic efficacy of bovine colostral immunoglobulins from a hyperimmunized cow against cryptosporidiosis in neonatal mice. Fayer R, et al. **Infect Immun** 1990 Sep;58(9):2962–5

Therapy of ocular toxoplasmosis. Rothova A, et al. **Int Ophthalmol** 1989 Dec;13(6):415–9

Diclazuril, a new broad-spectrum anticoccidial for chickens. 3. Floor-pen trials. Vanparijs O, et al. **Poult Sci** 1990 Jan; 69(1):60–4

Efficacy of diclazuril in the control of intestinal coccidiosis in rabbits. Vanparijs O, et al. **Vet Parasitol** 1989 Dec;

34(3):185–90
Anticoccidial efficacy of diclazuril in pheasants. Vanparijs O, et al. **Vet Rec** 1990 Apr 7;126(14):332–3

COCCYGEAL REGION see SACROCOCCYGEAL REGION

COCCYX

Synchronous abdominal and transsacral approach for excision of sacrococcygeal chordoma. Michel LA, et al. **Acta Chir Belg** 1989 Nov–Dec;89(6):316–9
Fetus in fetu or not [letter; comment] Hawkins EP. **J Pediatr Surg** 1990 May;25(5):583–4 Comment on: J Pediatr Surg 1989 Sep;24(9):926–7.
[Sacrococcygeal teratoma of newborn infants; a report of two cases] Shinoura N, et al. **No Shinkei Geka** 1990 Jun; 18(6):557–61 (Eng. Abstr.) **(Jpn)**
[Constant electric current and laser irradiation in the complex treatment of complicated epithelial passages and cysts of the coccyx] Alekseenko AV, et al. **Vestn Khir** 1989 Apr; 142(4):116–7 **(Rus)**
[The combined treatment of sacrococcygeal chordomas] Tolstopiatov BA, et al. **Vopr Onkol** 1989;35(11):1371–2 **(Rus)**

ABNORMALITIES

Antenatal diagnosis of sacral agenesis syndrome in a pregnancy complicated by diabetes mellitus. Sonek JD, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):806–8

EMBRYOLOGY

The human vertebral column at the end of the embryonic period proper. 4. The sacrococcygeal region. O'Rahilly R, et al. **J Anat** 1990 Feb;168:95–111

PATHOLOGY

Incidental glomus coccygeum. When a normal structure looks like a tumor. Albrecht S, et al. **Am J Surg Pathol** 1990 Oct;14(10):922–4
Fine-needle aspiration cytology of sacrococcygeal chordoma. Nijhawan VS, et al. **Diagn Cytopathol** 1989; 5(4):404–7

RADIOGRAPHY

Case report 576. Anaplastic sacrococcygeal chordoma (dedifferentiated chordoma). Smith J, et al. **Skeletal Radiol** 1989;18(7):561–4

SURGERY

Giant sacro-coccygeal teratoma. Case report. Arseni C, et al. **Zentralbl Neurochir** 1989;50(3–4):206–9

COCHLEA

The round window ultrasonic technique for treatment of Ménière's disease. Kossoff G, et al. **Arch Otolaryngol** 1967 Nov;86(5):535–42 (14 ref.)
Perilymphatic fistula in the guinea pig. Muchnik C, et al. **Audiology** 1990;29(1):55–60
Effects of acute lead acetate exposure on adult guinea pigs: electrophysiological study of the inner ear. Yamamura K, et al. **Fundam Appl Toxicol** 1989 Oct;13(3):509–15
Pre-operative cochlear implant assessment using a round window ball electrode. Ryan RM. **J Laryngol Otol Suppl** 1989;18:11–3
Recurrent meningitis secondary to perilymph fistula in young children. MacRae DL, et al. **J Otolaryngol** 1990 Jun; 19(3):222–5
Vestibular effects of chronic perilymph fistula in the cat. Bhansali SA, et al. **Otolaryngol Head Neck Surg** 1990 Jun; 102(6):701–8
[Idiopathic perilymph fistula] Lu Y. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1989;24(1):15–6, 62 (Eng. Abstr.) **(Chi)**
[Effects of influenza on the state of vessels in the stria vascularis of the spiral organ (an experimental study)] Lebedev SI. **Vestn Otorinolaringol** 1989 Jul–Aug;(4):29–33 (Eng. Abstr.) **(Rus)**
[Effects of cochlear implant on the morphofunctional state of spiral ganglion neurocytes] Rakhmanova IV, et al. **Vestn Otorinolaringol** 1989 Jul–Aug;(4):23–6 (Eng. Abstr.) **(Rus)**
[The development of stria vascularis in the guinea pig fetus] Gil-Carcedo LM, et al. **An Otorrinolaringol Ibero Am** 1990; 17(2):183–94 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

CSF fistula in a patient with Mondini deformity: demonstration by CT cisternography. Burton EM, et al. **AJNR** 1990 Jan–Feb;11(1):205–7
CT-scanning of the cochlea in Pendred's syndrome. Johnsen T, et al. **Clin Otolaryngol** 1989 Oct;14(5):389–93
Mondini and 'pseudo Mondini' [editorial] Phelps PD. **Clin Otolaryngol** 1990 Apr;15(2):99–101

ANALYSIS

Postnatal development of substance P in the inner ear of the guinea pig. Nowak R, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):147–8
Immunoelectron microscopic localization of neurotransmitters in the cochlea. Eybalin M, et al. **J Electron Microsc Tech** 1990 Jul;15(3):209–24
Effect of EDTA on cytokeratin detection in the inner ear. Tonnaer EL, et al. **J Histochem Cytochem** 1990 Aug; 38(8):1223–7
GABA-like immunoreactivity in the cochlea of the developing mouse. Whitlon DS, et al. **J Neurocytol** 1989 Aug;18(4):505–18

ANATOMY & HISTOLOGY

Morphometry of the apical turn of the guinea pig's cochlea. Kelly JP. **Acta Otolaryngol Suppl (Stockh)** 1989;467:113–22
The cochlea and the carotid canal. Muren C, et al. **Acta Radiol** 1990 Jan;31(1):33–5
Computer-aided 3-D temporal bone anatomy for cochlear implant surgery. Takahashi H, et al. **Laryngoscope** 1990 Apr;100(4):417–21
Computer-aided three-dimensional reconstruction and measurement of the round window and its membrane. Takahashi H, et al. **Otolaryngol Head Neck Surg** 1989 Nov; 101(5):517–21
Cochlear nucleus anatomy related to central electroauditory prosthesis implantation. Terr LI, et al. **Otolaryngol Head Neck Surg** 1990 Jun;102(6):717–21
[Anatomy and physiology of the cochlea] Pujol R. **Arch Int Physiol Biochim** 1989 Aug;97(4):A51–78 (112 ref.) **(Fre)**

BLOOD SUPPLY

Observations of cochlear microcirculation using intravital microscopy. Axelsson A, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):263–70
Cochlear vessel permeability to horseradish peroxidase after diuretic administration in the chinchilla. Duvall AJ 3d, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec; 108(5–6):397–403
Effect of loud sound exposure on the cochlear blood flow. Okamoto A, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun;109(5–6):378–82
Mannitol and dextran increase cochlear blood flow in normotensive and spontaneously hypertensive rats. Quirk WS, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun; 109(5–6):383–8
Effect of arachidonic acid on the inner ear blood flow measured with a laser Doppler flowmeter. Umemura K, et al. **Ann Otol Rhinol Laryngol** 1990 Jun;99(6 Pt 1):491–5
Cochlear microcirculation. Effect of adrenergic agonists on arteriole diameter. Carrasco VN, et al. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):411–7
Cochlear microcirculation in young and old gerbils. Prazma J, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug; 116(8):932–6
Histological evaluation of cochlear blood flow using different fixation methods. Kaseki Y, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):149–50
Cochlear blood flow following temporary occlusion of the cerebellar arteries. Randolf HB, et al. **Eur Arch Otorhinolaryngol** 1990;247(4):226–8
Laser Doppler measurements of cochlear blood flow during loud sound presentation. Scheibe F, et al. **Eur Arch Otorhinolaryngol** 1990;247(2):84–8
Laser light transmission and laser Doppler blood flow measurements on the human, rat and guinea pig cochlea. Scheibe F, et al. **Eur Arch Otorhinolaryngol** 1990; 247(1):20–3
The influence of acute venous congestion on the guinea pig cochlea. Watanabe Y, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):161–4
Influence of experimental ischemia on the acoustic organ of guinea pigs in electron microscopic studies. Olszewski J. **Gegenbaurs Morphol Jahrb** 1990;136(3):243–52
Neural basis for regulation of cochlear blood flow: peptidergic and adrenergic innervation of the spiral modiolar artery of the guinea pig. Carlisle L, et al. **Hear Res** 1990 Jan;43(2–3):107–13
The effects of intracerebroventricularly administered angiotensin II on blood pressure and cochlear blood flow in rats and guinea pigs. Flynn AJ, et al. **Hear Res** 1989 Sep;41(2–3):249–54
Measurement of cochlear blood flow: intravital fluorescence microscopy. Prazma J, et al. **Hear Res** 1989 Nov; 42(2–3):229–36
Cochlear blood flow autoregulation in Wistar-Kyoto rats. Quirk WS, et al. **Hear Res** 1989 Aug;41(1):53–60
Effect of sympathectomy on capillaries of the cochlear lateral wall. Watanabe K, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(4):205–10
A comparison of laser Doppler and intravital microscopic measures of cochlear blood flow. LaRouere MJ, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):375–84
Electrically stimulated increases in cochlear blood flow: II. Evidence of neural mediation. Sillman JS, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):362–74

CYTOLOGY

Melanocytes in the modiolus of the guinea pig cochlea. Franz P, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr; 109(3–4):221–7
Pigmented cells of the stria vascularis and spiral ligament of the chinchilla. Wright CG, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct;108(3–4):190–200
Interpretation of cochlear structures visualized with optical sectioning microscopy. Kelly JP, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:123–9
Dependence of cellular responses on signal level. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989; 467:195–203
Changes in cellular tuning along the length of the cochlea. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989; 467:157–62
Changes in cellular tuning along the radial axis of the cochlea. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989; 467:163–73
Mechanical tuning characteristics of outer hair cells and Hensen's cells. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:139–44
A digital system for the generation of acoustic stimuli and the analysis of cellular vibration data. Lund DT, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:77–89
Changes in the vibratory responses of Hensen's cells with time. Ulfendahl M, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:145–9
Neuronotrophic effect of developing otic vesicle on cochleo-vestibular neurons: evidence for nerve growth factor involvement. Lefebvre PP, et al. **Brain Res** 1990 Jan 22;507(2):254–60
Another role for melanocytes: their importance for normal stria vascularis development in the mammalian inner ear. Steel KP, et al. **Development** 1989 Nov;107(3):453–63
Connections and frequency representation in the auditory brainstem of the mustache bat, Pteronotus parnellii. Zook JM, et al. **J Comp Neurol** 1989 Dec 8;290(2):243–61
Trophic support of the developing cochleovestibular ganglion by its peripheral target in vitro does not depend on neuronal cell division. Hauger SH, et al. **Neuroscience** 1989;33(2):241–51
Microprobe analysis of cryofixed, chemically untreated freeze-dried cochlear hair cells. Anniko M, et al. **ORL J Otorhinolaryngol Relat Spec** 1989;51(5):290–4
[Immunolocalization of parvalbumin in two glutamatergic cell types of the guinea pig cochlea: inner hair cells and spinal ganglion neurons] Eybalin M, et al. **C R Acad Sci [III]** 1990;310(13):639–44 (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

Effect of furosemide upon morphology of hair bundles in guinea pig cochlear hair cells. Comis SD, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):49–56
Dynamic changes following combined treatment with gentamicin and ethacrynic acid with and without acoustic stimulation. Cellular uptake and functional correlates. Hayashida T, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):404–13
Effects of glutaraldehyde and metabolic inhibitors on the vibratory responses in the isolated cochlea. Flock A, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:209–19
Effects of caffeine on the micromechanics of the isolated cochlea. Ulfendahl M, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:221–8
A comparative study of the ototoxicity of tobramycin and gentamicin. Brummett RE, et al. **Arch Otolaryngol** 1972 Dec;96(6):505–12
Ototoxic effects of a pseudodisaccharide aminoglycoside antibiotic, dactimicin, on the inner ears of guinea pigs. Yokota M, et al. **Chemotherapy** 1989;35(6):431–40
The effect of adenylate cyclase stimulation on endocochlear potential in the guinea pig. Doi K, et al. **Eur Arch Otorhinolaryngol** 1990;247(1):16–9
Nimodipine, an L-channel Ca2+ antagonist, reverses the negative summating potential recorded from the guinea pig cochlea. Bobbin RP, et al. **Hear Res** 1990 Jul;46(3):277–87
Organic acids do not alter the cochlear effects of ethacrynic acid. Rybak LP, et al. **Hear Res** 1990 Jun;46(1–2):95–9
Cochlear damage and increased threshold in alpha-difluoromethylornithine (DFMO) treated guinea pigs. Salzer SJ, et al. **Hear Res** 1990 Jun;46(1–2):101–12
Selective damage to cochlear efferents by the choline neurotoxin ethylcholine mustard aziridinium ion (AF64A) in the chinchilla. Smith DW, et al. **Hear Res** 1989 Oct; 42(1):113–7
Structural changes in the round window membrane following exposure to Escherichia coli lipopolysaccharide and hydrocortisone. Spandow O, et al. **Laryngoscope** 1990 Sep; 100(9):995–1000
Salicylate, mefenamate, meclofenamate, and quinine on cochlear potentials. Puel JL, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):66–73
Potential toxicity of aminoglycosides given daily in a single large dose [letter] Ruch W, et al. **Pediatr Infect Dis J** 1989 Oct;8(10):727–8
The effect of PAF in the cochlea of guinea pigs. Ernst A, et al. **Prostaglandins** 1989 Nov;38(5):523–9
Auditory dysfunction and cochlear vascular injury following trimethyltin exposure in the guinea pig. Fechter LD, et al. **Toxicol Appl Pharmacol** 1990 Aug;105(1):133–43

EMBRYOLOGY

Auditory hair cells in human fetuses: synaptogenesis and ciliogenesis. Lavigne-Rebillard M, et al.

J Electron Microsc Tech 1990 Jun;15(2):115–22

ENZYMOLOGY

Quantitative distributions of aspartate aminotransferase and glutaminase activities in the guinea pig cochlea. Wiet GJ, et al. **Ann Otol Rhinol Laryngol** 1990 May;99(5 Pt 1):353–8

A technique for temporal bone sections using non-decalcified frozen guinea pig cochleas: a study of succinic dehydrogenases. Yang FS, et al. **Eur Arch Otorhinolaryngol** 1990;247(5):283–6

Biochemical and morphological differentiation of acetylcholinesterase-positive efferent fibers in the mouse cochlea. Emmerling MR, et al. **J Electron Microsc Tech** 1990 Jun;15(2):123–43

Quantitative immunogold localization of Na+,K(+)-ATPase alpha-subunit in the tympanic wall of rat cochlear duct. Iwano T, et al. **J Histochem Cytochem** 1990 Feb;38(2):225–32

GROWTH & DEVELOPMENT

Another role for melanocytes: their importance for normal stria vascularis development in the mammalian inner ear. Steel KP, et al. **Development** 1989 Nov;107(3):453–63

Direct visualization of death of neurones projecting to specific targets in the developing rat brain. Harvey AR, et al. **Exp Brain Res** 1990;80(1):213–7

Transient expression of neurofilament protein during hair cell development in the mouse cochlea. Hasko JA, et al. **Hear Res** 1990 Apr;45(1–2):63–73

Development of spiral ganglion cells in mammalian cochlea. Romand MR, et al. **J Electron Microsc Tech** 1990 Jun; 15(2):144–54

IMMUNOLOGY

[Application of an immunofluorescent technique on a guinea pig cochlear section for the study of endocochlear pathologies] Mondain M, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(5):501–6 (Eng. Abstr.) **(Fre)**

INJURIES

Inner ear decompression sickness combined with a fistula of the round window. Case report. Adkisson GH, et al. **Ann Otol Rhinol Laryngol** 1990 Sep;99(9 Pt 1):733–7

Long term effects of intense sound on endocochlear DC potential. Ide M, et al. **Auris Nasus Larynx** 1990;17(1):1–10

Possible precursors of regenerated hair cells in the avian cochlea following acoustic trauma. Girod DA, et al. **Hear Res** 1989 Nov;42(2–3):175–94

Hypothermia protects the cochlea from noise damage. Henry KR, et al. **Hear Res** 1984 Dec;16(3):225–30

INNERVATION

Cholinergic and noradrenergic nervous systems in the cynomolgus monkey cochlea. Hozawa K, et al. **Acta Otolaryngol (Stockh)** 1990 Jul–Aug;110(1–2):46–55

NaCl deposition in the vestibule: a simple, safe, and effective method of cochleovestibular deafferentation. Colletti V, et al. **Am J Otol** 1989 Nov;10(6):451–5

Frequency selectivity in the auditory periphery: similarities between damaged and developing ears. Walsh EJ, et al. **Am J Otolaryngol** 1990 Jan–Feb;11(1):23–32

Asymmetric distribution of calbindin-D28K in the ganglia habenulae of an elasmobranch fish. Rodriguez-Moldes I, et al. **Anat Embryol (Berl)** 1990;181(4):389–91

Electrical stimulation of the inferior colliculus at low rates protects the cochlea from auditory desensitization. Rajan R. **Brain Res** 1990 Jan 8;506(2):192–204

Coexistence of calcitonin gene-related peptide and enkephalin in single neurons of the lateral superior olivary nucleus of the guinea pig that project to the cochlea as lateral olivocochlear system. Tohyama Y, et al. **Brain Res** 1990 May 7;515(1–2):312–4

Auditory brainstem of the ferret: bilateral cochlear lesions in infancy do not affect the number of neurons projecting from the cochlear nucleus to the inferior colliculus. Moore DR. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):125–30

The problem of obtaining reproducible quantitative data of the olivocochlear pathway as exemplified in the guinea pig. Stopp PE. **Eur Arch Otorhinolaryngol** 1990;247(1):29–32

The form and distribution of GABAergic synapses on the principal cell types of the ventral cochlear nucleus of the cat. Saint Marie RL, et al. **Hear Res** 1989 Oct;42(1):97–112

Synapses formed by olivocochlear axon branches in the mouse cochlear nucleus. Benson TE, et al. **J Comp Neurol** 1990 May 1;295(1):52–70

Scanning electron microscopy of nerve fibers in human fetal cochlea. Hoshino T. **J Electron Microsc Tech** 1990 Jun; 15(2):104–14

Development of spiral ganglion cells in mammalian cochlea. Romand MR, et al. **J Electron Microsc Tech** 1990 Jun; 15(2):144–54

Serial reconstruction of inner hair cell afferent innervation using semithick sections. Siegel JH. **J Electron Microsc Tech** 1990 Jul;15(3):197–208

METABOLISM

Round window membrane and perilymph in experimental otitis media with effusion. Suzuki M, et al. **Ann Otol Rhinol Laryngol** 1989 Dec;98(12 Pt 1):980–7

Round window membrane permeability during experimental purulent otitis media: altered Cortisporin ototoxicity. Ikeda K, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Jun;148:46–8

Permeability of the round window membrane to middle-sized molecules in purulent otitis media. Ikeda K, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jan;116(1):57–60

A M3 muscarinic receptor coupled to inositol phosphate formation in the rat cochlea? Guiramand J, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1913–9

Immunocytochemical localization of glutamate immunoreactivity in the guinea pig cochlea. Altschuler RA, et al. **Hear Res** 1989 Nov;42(2–3):167–73

Differential susceptibility to gentamicin ototoxicity between albino and pigmented guinea pigs. Conlee JW, et al. **Hear Res** 1989 Aug;41(1):43–51

Immunocytochemical localization of neurofilament subunits in the spiral ganglion of normal and neomycin-treated guinea pigs. Dau J, et al. **Hear Res** 1989 Nov; 42(2–3):253–63

Effects of perinatal hypothyroidism in the carbohydrate composition of cochlear tectorial membrane. Gil-Loyzaga P, et al. **Hear Res** 1990 Apr;45(1–2):151–5

Perilymph composition in scala tympani of the cochlea: influence of cerebrospinal fluid. Hara A, et al. **Hear Res** 1989 Nov;42(2–3):265–71

Visualization and functional testing of acetylcholine receptor-like molecules in cochlear outer hair cells. Plinkert PK, et al. **Hear Res** 1990 Feb;44(1):25–34

Localization of anionic sulfate groups in the tectorial membrane. Prieto JJ, et al. **Hear Res** 1990 May; 45(3):283–93

Autoradiographic studies of selective amino acid uptake by neural and nonneural elements in the gerbil cochlea. Schwartz IR, et al. **J Electron Microsc Tech** 1990 Jul; 15(3):225–44

[Influence of otitis media with effusion on perilymph and round window membrane] Suzuki M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Sep;92(9):1354–8 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Normal and pathologic features of the limbus spiralis and its functional significance. Kimura RS, et al. **Am J Otolaryngol** 1990 Mar–Apr;11(2):99–111

Time-related changes in the guinea pig cochlea after acoustic overstimulation. Fredelius L, et al. **Ann Otol Rhinol Laryngol** 1990 May;99(5 Pt 1):369–78

Changes in the capillaries of the stria vascularis after hemorrhagic shock. Watanabe K, et al. **Ann Otol Rhinol Laryngol** 1990 Aug;99(8):660–5

Role of middle ear endotoxin in inner ear inflammatory response and hydrops: long-term study. Lim DJ, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Jun;148:33–4

Arachnoid villi obstruction in the cochlear aqueduct. Gussen R. **Arch Otolaryngol** 1972 Dec;96(6):565–9

In search of cochlear morphologic correlates for tinnitus. Oliveira CA, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug;116(8):937–9

Recovery of the basilar papilla following intense sound exposure in the chick. Marsh RR, et al. **Hear Res** 1990 Jul;46(3):229–37

Effect of sympathectomy on capillaries of the cochlear lateral wall. Watanabe K, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(4):205–10

Oval and round window changes in otitis media: an experimental study in the cat. Goycoolea MV, et al. **Surg Forum** 1978;29:578–80

PHYSIOLOGY

Impulse patterns of auditory nerve fibres to extra- and intracochlear electrical stimulation. Hartmann R, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:128–34

Models of nonlinear vibration. I. Oscillator with bilinear resistance. Keilson SE, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:241–8

Models of nonlinear vibration. III. Oscillator with bilinear mass. Keilson SE, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:257–64

Comparison of the tuning of outer hair cells and the basilar membrane in the isolated cochlea. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:151–6

Middle ear vibration and sound pressure measurements in the isolated cochlea preparation. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:131–7

Changes in tuning of Reissner's membrane along the radial axis of the cochlea. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:175–81

Models of nonlinear vibration. II. Oscillator with bilinear stiffness. Teich MC, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:249–56

Rectification models in cochlear transduction. Teich MC, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:235–40

Otoacoustic emissions: an overview. Probst R. **Adv Otorhinolaryngol** 1990;44:1–91 (247 ref.)

Use of the bone conduction ABR Wave I response in determination of cochlear reserve. Tucci DL, et al. **Am J Otol** 1990 Mar;11(2):119–24

Evoked vertex and inferior colliculus responses to electrical stimulation of the cochlear nucleus. Shore SE, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):571–6

Distortion product emissions in humans. II. Relations to acoustic immittance and stimulus frequency and spontaneous otoacoustic emissions in normally hearing subjects. Lonsbury-Martin BL, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 May;147:15–29

Distortion product emissions in humans. I. Basic properties in normally hearing subjects. Lonsbury-Martin BL, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 May;147:3–14

Distortion product emissions in humans. III. Influence of sensorineural hearing loss. Martin GK, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 May;147:30–42

An estimate of the prevalence of tinnitus caused by spontaneous otoacoustic emissions. Penner MJ. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):418–23

Fine structure of the intracochlear potential field. I. The silent current. Zidanic M, et al. **Biophys J** 1990 Jun; 57(6):1253–68

Variability of the influence of a visual task on the active micromechanical properties of the cochlea. Froehlich P, et al. **Brain Res** 1990 Feb 5;508(2):286–8

A non-invasive electrophysiological technique for the measurement of 'tuning'. Mason SM, et al. **Clin Otolaryngol** 1990 Feb;15(1):43–8

Evoked otoacoustic emissions in normal-hearing infants and children: emerging data and issues. Norton SJ, et al. **Ear Hear** 1990 Apr;11(2):121–7

Short latency vestibular potentials evoked by electrical round window stimulation in the guinea pig. Bordure P, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov;73(5):464–9

Cochlear potentials and auditory evoked potentials in the caiman (Caiman crocodilus (L.)). Smolders JW, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb; 75(2):97–104

Evoked otoacoustic emissions in guinea pig: basic characteristics. Avan P, et al. **Hear Res** 1990 Mar; 44(2–3):151–60

Effect of contralateral auditory stimuli on active cochlear micro-mechanical properties in human subjects. Collet L, et al. **Hear Res** 1990 Jan;43(2–3):251–61

Can shape deformations of the organ of Corti influence the travelling wave in the cochlea? de Boer E. **Hear Res** 1990 Feb;44(1):83–92

Effects of L-glutamate on auditory afferent activity in view of its proposed excitatory transmitter role in the mammalian cochlea. Gleich O, et al. **Hear Res** 1990 May;45(3):295–311

Estimation of surviving spiral ganglion cells in the deaf rat using the electrically evoked auditory brainstem response. Hall RD. **Hear Res** 1990 Apr;45(1–2):123–36

Rapid force production in the cochlea. Mountain DC, et al. **Hear Res** 1989 Nov;42(2–3):195–202

A possibility of sharp tuning in a linear transversally inhomogeneous cochlear model [published erratum appears in Hear Res 1990 Jun;46(1–2):179–80] Novoselova SM. **Hear Res** 1989 Sep;41(2–3):125–35

Lower boundaries of two-tone suppression regions in the guinea pig. Prijs VF. **Hear Res** 1989 Oct;42(1):73–81

Apical hair cells and hearing. Prosen CA, et al. **Hear Res** 1990 Mar;44(2–3):179–93

The effect of upper pontine transections on normal cochlear responses and on the protective effects of contralateral acoustic stimulation in barbiturate-anaesthetized normal-hearing guinea pigs. Rajan R. **Hear Res** 1990 Apr; 45(1–2):137–44

Absence of tonic activity of the crossed olivocochlear bundle in determining compound action potential thresholds, amplitudes and masking phenomena in anaesthetised guinea pigs with normal hearing sensitivities. Rajan R, et al. **Hear Res** 1990 Mar;44(2–3):195–207

Blood flow changes in chicken brain stem auditory nuclei following cochlea removal. Richardson BE, et al. **Hear Res** 1990 Jun;46(1–2):53–61

A model of threshold for pulsatile electrical stimulation of cochlear implants. Shannon RV. **Hear Res** 1989 Jul; 40(3):197–204

Auditory nerve rate-level functions for two-tone stimuli: possible relation to basilar membrane nonlinearity. Sokolowski BH, et al. **Hear Res** 1989 Sep;41(2–3):115–23

Basilar membrane nonlinearity determines auditory nerve rate-intensity functions and cochlear dynamic range. Yates GK, et al. **Hear Res** 1990 May;45(3):203–19

Cochlear preprocessing in analog models, in digital models and in human inner ear. Zwicker E, et al. **Hear Res** 1990 Mar;44(2–3):209–16

Tectorial membrane. II: Stiffness measurements in vivo. Zwislocki JJ, et al. **Hear Res** 1989 Nov;42(2–3):211–27

On the determination of input sound frequencies by the auditory central processor. Deutsch S. **IEEE Trans Biomed Eng** 1990 Jun;37(6):556–64

Diode pump cochlear audition theory three dimensional model. Crandall WE. **Int J Neurosci** 1989 Aug; 47(3–4):249–77

Nonlinearities in cochlear receptor potentials and their origins. Dallos P, et al. **J Acoust Soc Am** 1989 Nov; 86(5):1790–6

Asynchronous neural activity recorded from the round window. Dolan DF, et al. **J Acoust Soc Am** 1990 Jun; 87(6):2621–7

Characterization of an EPSP-like potential recorded remotely from the round window. Dolan DF, et al. **J Acoust Soc Am** 1989 Dec;86(6):2167–71

A cochlear frequency-position function for several species—29 years later. Greenwood DD. **J Acoust Soc Am** 1990 Jun;87(6):2592–605

Forward masking patterns produced by intracochlear electrical stimulation of one and two electrode pairs in the human cochlea. Lim HH, et al. **J Acoust Soc Am** 1989 Sep;86(3):971–80

Intracellular recordings from supporting cells in the guinea-pig cochlea: AC potentials. Oesterle EC, et al. **J Acoust Soc Am** 1989 Sep;86(3):1013–32

Flow of endolymph in the inner spiral sulcus and the subtectorial space. Raftenberg MN. **J Acoust Soc Am** 1990 Jun;87(6):2606–20

Intermodulation distortion in the cochlea as shown by offset action potential (AP) masking curves [comment] Schmiedt RA. **J Acoust Soc Am** 1990 Mar;87(3):1357–9 Comment on: J Acoust Soc Am 1988 Oct;84(4):1354–62.

Cytochrome oxidase response to cochlea removal in chicken auditory brainstem neurons. Hyde GE, et al. **J Comp Neurol** 1990 Jul 15;297(3):329–39

Distortion product emissions and sensorineural hearing loss. Kimberley BP, et al. **J Otolaryngol** 1989 Dec;18(7):365–9

How the ear's works work. Hudspeth AJ. **Nature** 1989 Oct 5;341(6241):397–404 (113 ref.)

Brainstem acoustic evoked responses: maturational aspects from cochlea to midbrain. Lauffer H, et al. **Neuropediatrics** 1990 May;21(2):59–61

Sealing of the round window reversibly affects auditory brainstem response latencies. Spandow O, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(2):80–5

Neurotransmitters involved in the habenular control of raphe-hippocampal circuit. Michele S, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:39–40

Habenular effect on hippocampal excitability is not cholinergically-mediated. Zagami MT, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:41–2

[A case report of spontaneous otoacoustic emissions] Paaske PB, et al. **Ugeskr Laeger** 1989 Oct 16;151(42):2735–6 (Eng. Abstr.) **(Dan)**

[Effects of body posture on cochlear performance] Salonna I, et al. **Boll Soc Ital Biol Sper** 1990 Feb;66(2):173–80 (Eng. Abstr.) **(Ita)**

[Cochlear dysfunction induced by arterial obstruction in the cat anterior cerebellar artery] Ito H. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Nov;92(11):1863–8 (Eng. Abstr.) **(Jpn)**

[An experimental study on the auditory brainstem response to electrical stimulation of the cochlea] Saito H. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Jan;93(1):93–104 (Eng. Abstr.) **(Jpn)**

[Narrow-band action potentials of the guinea-pig cochlea as compared with the ordinary electrocochleograms under normal and pathological conditions] Shimamoto A. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Apr;93(4):640–50 (Eng. Abstr.) **(Jpn)**

[Sound reception mechanism] Furukawa T. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1085–93 **(Jpn)**

[Oscillations of the internal ear basilar membrane in the sonic and ultrasonic range from the data of mathematical analysis of the hydrodynamic model of the cochlea] Sagalovich BM, et al. **Biofizika** 1990 Jan–Feb;35(1):124–7 (Eng. Abstr.) **(Rus)**

[An electrode for recording bioelectrical activity of the cochlea in chronic experiments] Guselnov NM, et al. **Vestn Otorinolaringol** 1989 Sep–Oct;(5):65–6 **(Rus)**

PHYSIOPATHOLOGY

Tinnitus and otoacoustic emissions: is there a link? Norton SJ, et al. **Ear Hear** 1990 Apr;11(2):159–66

Changes in endocochlear potential during anoxia after intense noise exposure. Wang JA, et al. **Hear Res** 1990 Mar; 44(2–3):143–9

The responses of models of "high-spontaneous" auditory-nerve fibers in a damaged cochlea to speech syllables in noise. Geisler CD. **J Acoust Soc Am** 1989 Dec; 86(6):2192–205

Early alterations of cochlear function in experimental perilymph fistulas. Böhmer A. **Laryngoscope** 1990 Apr; 100(4):389–94

Effect of anoxia on spontaneous discharges of the cochlear single unit in guinea pigs. Kitano H, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(4):211–7

The prognostic value of round window electrical stimulation in cochlear implant patients. Waltzman SB, et al. **Otolaryngol Head Neck Surg** 1990 Jul;103(1):102–6

RADIATION EFFECTS

The influence of prenatal gamma irradiation on the ageing of the cochlea. Hultcrantz M, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):414–23

RADIOGRAPHY

Correlation of high resolution computed tomography and gross anatomic sections of the temporal bone. Part III. Cochlear and vestibular aqueducts. Cooper MH, et al. **Am J Otol** 1989 Jul;10(4):272–6

Imaging for cochlear implants. Phelps PD, et al. **Br J Radiol** 1990 Jul;63(751):512–6

Computed tomography: how accurate a predictor for cochlear implantation? Wiet RJ, et al. **Laryngoscope** 1990 Jul;100(7):687–92

SECRETION

Potassium induced release of GABA and other substances from the guinea pig cochlea. Bobbin RP, et al. **Hear Res** 1990 Jun;46(1–2):83–93

Two different secretion mechanisms in the inner ear's interdental cells. Prieto JJ, et al. **Hear Res** 1990 Apr; 45(1–2):51–61

SURGERY

Cochleostomy. Long term results. Ried E. **Acta Otorhinolaryngol Belg** 1988;42(6):779–83

TRANSPLANTATION

Development of location-specific hair cell stereocilia in denervated embryonic ears. Corwin JT, et al. **J Comp Neurol** 1989 Oct 22;288(4):529–37

ULTRASTRUCTURE

Rotated stereociliary bundles and their relationship with the tectorial membrane in the guinea pig cochlea. Furness DN, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb; 109(1–2):66–75

Post-mortem changes in hair bundles of the guinea pig and human cochlea studied by high-resolution scanning microscopy. Osborne MP, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct;108(3–4):217–26

Morphometric analysis of normal human spiral ganglion cells. Nadol JB Jr, et al. **Ann Otol Rhinol Laryngol** 1990 May; 99(5 Pt 1):340–8

Scanning electron microscopy of the connective tissue along the lateral wall of the mouse cochlear duct with special reference to the external sulcus cells. Küçük B, et al. **Arch Histol Cytol** 1990 Jul;53(3):297–305

Three-dimensional organization of a transcellular tubulocisternal endoplasmic reticulum in epithelial cells of Reissner's membrane in the guinea-pig. Qvortrup K, et al. **Cell Tissue Res** 1990 Aug;261(2):287–99

Observation on Corti's organ of entire cochlea in the guinea pig by scanning electron microscopy. Gu ZP, et al. **Chin Med J [Engl]** 1989 Apr;102(4):251–6

Regional variations in the expression of cytokeratin proteins in the adult human cochlea. Anniko M, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):182–8

Lipofuscin pigments in the spiral ganglion of the rat. Igarashi Y, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):189–93

An ultrastructural study of the guinea pig tectorial membrane 'type A' protofibril. Arima T, et al. **Hear Res** 1990 Jul; 46(3):289–92

Tip-link organization in anomalously-oriented hair cells of the guinea pig cochlea. Comis SD, et al. **Hear Res** 1989 Jul;40(3):205–11

The attachment of the spiral ligament to the cochlear wall: anchoring cells and the creation of tension. Henson MM, et al. **Hear Res** 1984 Dec;16(3):231–42

New structural features of synapses in the anteroventral cochlear nucleus prepared by direct freezing and freeze-substitution. Tatsuoka H, et al. **J Comp Neurol** 1989 Dec 15;290(3):343–57

Ultrastructure of the cochlea, Part I. **J Electron Microsc Tech** 1990 Jun;15(2):103–96

Ultrastructure of the cochlea, Part II. **J Electron Microsc Tech** 1990 Jul;15(3):197–315

Freeze-fracture and immunomorphological analysis of spiral ganglion cells. Anniko M, et al. **J Electron Microsc Tech** 1990 Jun;15(2):155–64

Comparison of demyelination and neural degeneration in spiral and Scarpa's ganglia of C57BL/6 mice. Cohen GM, et al. **J Electron Microsc Tech** 1990 Jun;15(2):165–72

Ultrastructure of proteoglycans in the tectorial membrane. Santi PA, et al. **J Electron Microsc Tech** 1990 Jul; 15(3):293–300

Spiral prominence epithelium. Sim DW. **J Laryngol Otol** 1989 Dec;103(12):1122–4

Ultrastructural studies of the peripheral extensions (dendrites) of type I ganglion cells in the cat. Goycoolea MV, et al. **Laryngoscope** 1990 Feb;100(2 Pt 2 Suppl 50):19–24

Quantitative evaluation of scanning electron microscopy-examined ciliary morphological changes in control and noise exposed guinea pig cochleas. Rydmarker S, et al. **Scanning Microsc** 1989 Dec;3(4):1253–64

[The ultrastructure of the cochlear basilar membrane of the guinea pig] Prokof'eva LI, et al. **Tsitologiia** 1989 Aug; 31(8):887–97 (Eng. Abstr.) **(Rus)**

COCHLEAR AQUEDUCT see under **COCHLEA**

COCHLEAR DISEASES

CHEMICALLY INDUCED

Effect of topical fosfomycin on polymyxin B ototoxicity. Leach JL, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jan;116(1):49–53

Cochleovestibular toxicity related to dichloromethotrexate. Golden L, et al. **Cancer Invest** 1989;7(4):345–8

[A study on the mechanism of ototoxicity of aspirin] Li XQ. **Chung Hua I Hsueh Tsa Chih** 1989 Jul;69(7):403–5 **(Chi)**

COMPLICATIONS

[Clinical observations of acute low-tone sensorineural hearing loss considered as cochlear hydrops] Yamasoba T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Feb; 93(2):219–28 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Intracochlear neurilemmoma. Karlan MS, et al. **Arch Otolaryngol** 1972 Dec;96(6):573–5

The clinical application of acoustic distortion products. Ohlms LA, et al. **Otolaryngol Head Neck Surg** 1990 Jul; 103(1):52–9

The prognostic value of round window electrical stimulation in cochlear implant patients. Waltzman SB, et al. **Otolaryngol Head Neck Surg** 1990 Jul;103(1):102–6

[Idiopathic perilymph fistula] Lu Y. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1989;24(1):15–6, 62 (Eng. Abstr.) **(Chi)**

[Diagnostic and treatment possibilities in cochleovestibular syndromes] Nemeş T, et al. **Rev Chir [Otorinolaringol]** 1989 Apr–Jun;34(2):99–103 (Eng. Abstr.) **(Rum)**

[Cochleovestibular manifestations in hypothyroidism] Ciges M, et al. **Acta Otorrinolaringol Esp** 1989 Dec;40 Suppl 2:232–5 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Electronystagmographic findings and recovery of cochlear and vestibular function in patients suffering from sudden deafness with a special reference to the effect of anticoagulation. Laurikainen E, et al. **Audiology** 1989; 28(5):262–7

[Use of monotreane in the treatment of patients with cochleovestibular disorders] Pal'chun VT, et al. **Vestn Otorinolaringol** 1989 Sep–Oct;(5):20–2 (Eng. Abstr.) **(Rus)**

ETIOLOGY

[Application of an immunofluorescent technique on a guinea pig cochlear section for the study of endocochlear pathologies] Mondain M, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(5):501–6 (Eng. Abstr.) **(Fre)**

[Dynamics of cochleovestibular disorders in patients with early manifestations of cerebral circulation insufficiency] Kuklina EV. **Vestn Otorinolaringol** 1989 Jul–Aug;(4):13–6 (Eng. Abstr.) **(Rus)**

[Cochleovestibular syndrome caused by sphenoiditis] Limanskiĭ SS. **Vestn Otorinolaringol** 1990 Jan–Feb;(1):66–7 (Eng. Abstr.) **(Rus)**

GENETICS

Aberrant frequency tuning and early stereociliary derangement in genetic inner ear disease. Wenngren BI, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr; 109(3–4):202–12

IMMUNOLOGY

[Autoimmune sensorineural hypoacusis] Tamargo Menéndez T, et al. **Acta Otorrinolaringol Esp** 1988 Nov–Dec; 39(6):423–30 **(Spa)**

PATHOLOGY

[Damage caused by endotoxin of the neural components of the organ of Corti] Lin JZ. **Chung Hua I Hsueh Tsa Chih** 1989 Dec;69(12):674–6, 46 (Eng. Abstr.) **(Chi)**

PHYSIOPATHOLOGY

Acoustic reflex thresholds in normal and cochlear-impaired ears: effects of no-response rates on 90th percentiles in a large sample. Gelfand SA, et al. **J Speech Hear Disord** 1990 May;55(2):198–205

[Narrow-band action potentials of the guinea-pig cochlea as compared with the ordinary electrocochleograms under normal and pathological conditions] Shimamoto A. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Apr;93(4):640–50 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Otosclerosis, diagnosis, and differential diagnosis. Swartz JD. **Semin Ultrasound CT MR** 1989 Jun;10(3):251–61 (28 ref.)

SURGERY

Cochlear otosclerosis: does bone formation affect cochlear implant surgery? Fayad J, et al. **Am J Otol** 1990 May; 11(3):196–200 (19 ref.)

COCHLEAR DUCT see under **COCHLEA**

COCHLEAR IMPLANT

Audiological results using single-channel intracochlear implant, vibrotactile aid or acoustic hearing aids. Rihkanen H, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct; 108(3–4):184–9

Multi-channel cochlear implant patients with different open speech understanding show some similar basic psychophysical results. Cazals Y, et al.

Acta Otolaryngol Suppl (Stockh) 1990;469:150–5
Wearable digital speech processor for cochlear implants using a TMS320C25. Dillier N, et al.
Acta Otolaryngol Suppl (Stockh) 1990;469:120–7
Impulse patterns of auditory nerve fibres to extra- and intracochlear electrical stimulation. Hartmann R, et al.
Acta Otolaryngol Suppl (Stockh) 1990;469:128–34
Electrophonic hearing and cochlear implants. Risberg A, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:156–63
Initial results with simultaneous analog and pulsatile stimulation of the cochlea. von Wallenberg EL, et al.
Acta Otolaryngol Suppl (Stockh) 1990;469:140–9
A complex case of cochlear implant electrode placement. Levine SC. **Am J Otol** 1989 Nov;10(6):477–80
Open-set minimum auditory capability scores for House and Nucleus cochlear prostheses. Mangham CA, et al.
Am J Otol 1989 Jul;10(4):263–6
Biocompatibility of the central electroauditory prosthesis and the human cochlear nuclei. Terr LI, et al. **Am J Otol** 1989 Sep;10(5):339–42
Speech perception with the nucleus cochlear implant in children trained with the auditory/verbal approach. Tyler RS. **Am J Otol** 1990 Mar;11(2):99–107
Advantages and disadvantages reported by some of the better cochlear-implant patients. Tyler RS, et al. **Am J Otol** 1990 Jul;11(4):282–9
Cochlear implant revision: effects of reimplantation on the cochlea. Jackler RK, et al. **Ann Otol Rhinol Laryngol** 1989 Oct;98(10):813–20
Surgical implantation and biocompatibility of central nervous system auditory prostheses. Niparko JK, et al.
Ann Otol Rhinol Laryngol 1989 Dec;98(12 Pt 1):965–70
Cochlear prosthetics. Loeb GE. **Annu Rev Neurosci** 1990; 13:357–71 (85 ref.)
Cochlear implant. Clarification offered [letter; comment] Resnick DM. **AORN J** 1989 Nov;50(5):956, 958 Comment on: AORN J 1989 Aug;50(2):299–300, 302–5, 307–9.
Trends in rehabilitation after cochlear implantation. Tucci DL, et al. **Arch Otolaryngol Head Neck Surg** 1990 May; 116(5):571–4
Audiological rehabilitation with cochlear implants and tactile aids. Osberger MJ. **ASHA** 1990 Apr;32(4):38–43 (42 ref.)
Stapedius reflex growth function in cochlear implant patients. Stephan K, et al. **Audiology** 1990;29(1):46–54
Synthetic two-formant vowel perception by some of the better cochlear-implant patients. Tyler RS, et al.
Audiology 1989;28(6):301–15
Sensorineural deafness [editorial] Douek E. **BMJ** 1990 Jul 14;301(6743):74–5
Statistical procedure for the preoperative prediction of the result of cochlear implantation. Fritze W, et al.
Br J Audiol 1989 Nov;23(4):293–7
Measurement of auditory brainstem responses evoked by electrical stimulation with a cochlear implant. Game CJ, et al. **Br J Audiol** 1990 Jun;24(3):145–9
Subjective benefit of communication aids evaluated by postlingually deaf adults. Rihkanen H. **Br J Audiol** 1990 Jun;24(3):161–6
Imaging for cochlear implants. Phelps PD, et al.
Br J Radiol 1990 Jul;63(751):512–6
Electrical stimulation of the round window: a selection procedure for single-channel cochlear implantation. Gray RF, et al. **Clin Otolaryngol** 1990 Feb;15(1):29–34
Consonant recognition as a function of the number of channels of stimulation by patients who use the Symbion cochlear implant. Dorman M, et al. **Ear Hear** 1989 Oct; 10(5):288–91
Electrically evoked auditory brain stem responses (EABR) and middle latency responses (EMLR) obtained from patients with the nucleus multichannel cochlear implant. Shallop JK, et al. **Ear Hear** 1990 Feb;11(1):5–15
Comparison of the F0F2 and F0F1F2 processing strategies for the Cochlear Corporation cochlear implant. Tye-Murray N, et al. **Ear Hear** 1990 Jun;11(3):195–200
Auditory consonant and word recognition skills of cochlear implant users. Tye-Murray N, et al. **Ear Hear** 1989 Oct; 10(5):292–8
Perception of speech pattern contrasts using a multichannel cochlear implant. Waltzman S, et al. **Ear Hear** 1990 Feb; 11(1):50–5
A model of threshold for pulsatile electrical stimulation of cochlear implants. Shannon RV. **Hear Res** 1989 Jul; 40(3):197–204
Discrimination of synthetic vowels by using tactile vocoder and a comparison to that of an eight-channel cochlear implant. Ifukube T. **IEEE Trans Biomed Eng** 1989 Nov; 36(11):1085–91
A package design technique for size reduction of implantable bioelectronic systems. Soma M.
IEEE Trans Biomed Eng 1990 May;37(5):482–8
Results for two children using a multiple-electrode intracochlear implant. Busby PA, et al.
J Acoust Soc Am 1989 Dec;86(6):2088–102
Peak-picking fundamental period estimation for hearing prostheses. Howard DM. **J Acoust Soc Am** 1989 Sep; 86(3):902–10
Forward masking patterns produced by intracochlear electrical stimulation of one and two electrode pairs in the human cochlea. Lim HH, et al. **J Acoust Soc Am** 1989 Sep;86(3):971–80
A computer interface for psychophysical and speech research with the Nucleus cochlear implant. Shannon RV, et al. **J Acoust Soc Am** 1990 Feb;87(2):905–7
Recent advances in cochlear implants. Shannon RV.
J Acoust Soc Am 1990 Jan;87(1):421–2
The speech of a postlingually deafened teenager during the first year of use of a multichannel cochlear implant. Tartter VC, et al. **J Acoust Soc Am** 1989 Dec;86(6):2113–21
The recognition of vowels differing by a single formant by cochlear-implant subjects. Tyler RS, et al.
J Acoust Soc Am 1989 Dec;86(6):2107–12
The University College Hospital/Royal National Institute for the Deaf cochlear implant programme.
J Laryngol Otol Suppl 1989;18:1–57
Comparison of benefit from UCH/RNID single-channel extracochlear implant and tactile acoustic monitor. Aleksy W. **J Laryngol Otol Suppl** 1989;18:55–7
Case study of a post-lingually deafened child with a UCH/RNID single channel cochlear implant. Booth CL, et al. **J Laryngol Otol Suppl** 1989;18:50–4
Design of the UCH/RNID cochlear implant system. Conway MJ, et al. **J Laryngol Otol Suppl** 1989;18:4–10
UCH/RNID single channel extracochlear implant: results in thirty profoundly deafened adults. Cooper HR, et al.
J Laryngol Otol Suppl 1989;18:22–38
The University College Hospital/Royal National Institute for the Deaf cochlear implant programme. Fraser JG.
J Laryngol Otol Suppl 1989;18:1–3
UCH/RNID single channel cochlear implant: surgical technique. Graham JM, et al. **J Laryngol Otol Suppl** 1989; 18:14–9
Electrical tinnitus suppression (ETS) with a single channel cochlear implant. Hazell JW, et al.
J Laryngol Otol Suppl 1989;18:39–44
Improvement in speech production following use of the UCH/RNID cochlear implant. Read TE.
J Laryngol Otol Suppl 1989;18:45–9
Antibiotic prophylaxis in cochlear implantation: current practice. Robinson PJ, et al. **J Laryngol Otol Suppl** 1989; 18:20–1
Pre-operative cochlear implant assessment using a round window ball electrode. Ryan RM.
J Laryngol Otol Suppl 1989;18:11–3
Audio-visual consonant recognition with the 3M/House cochlear implant. Danhauer JL, et al.
J Rehabil Res Dev 1990 Summer;27(3):247–54
Aided auditory thresholds in children [letter; comment] **Laryngoscope** 1990 Jun;100(6):671–3 Comment on: Laryngoscope 1989 Aug;99(8 Pt 1):800–8.
Severe versus profound sensorineural hearing loss in children: implications for cochlear implantation. Brookhouser PE, et al. **Laryngoscope** 1990 Apr;100(4):349–56
A matched-pairs comparison of single and multichannel cochlear implants in children. Chute PM, et al.
Laryngoscope 1990 Jan;100(1):25–8
Demonstration of prosthetic activation of central auditory pathways using [14C]-2-deoxyglucose. Evans DA, et al. **Laryngoscope** 1990 Feb;100(2 Pt 1):128–37
Anatomical perspective, approach, and experience with multichannel intracochlear implantation. Goycoolea MV, et al. **Laryngoscope** 1990 Feb;100(2 Pt 2 Suppl 50):1–18
Promontory stimulation following labyrinthectomy: implications for cochlear implantation. Kartush JM, et al.
Laryngoscope 1990 Jan;100(1):5–9
Longitudinal effects of single-channel cochlear implantation on voice quality. Leder SB, et al. **Laryngoscope** 1990 Apr; 100(4):395–8
Speech recognition ability as a function of duration of deafness in multichannel cochlear implant patients. Shea JJ 3d, et al. **Laryngoscope** 1990 Mar;100(3):223–6
Improvement in speech perception and production abilities in children using a multichannel cochlear implant. Waltzman S, et al. **Laryngoscope** 1990 Mar;100(3):240–3
Computed tomography: how accurate a predictor for cochlear implantation? Wiet RJ, et al. **Laryngoscope** 1990 Jul;100(7):687–92
Investigator differences in the cochlear implantation of children. Berliner KI, et al.
Otolaryngol Head Neck Surg 1990 Jun;102(6):683–9
Auditory brainstem prosthesis: biocompatibility of stimulation. Niparko JK, et al.
Otolaryngol Head Neck Surg 1989 Sep;101(3):344–52
Prognosticating speech performance in multichannel cochlear implant patients. Parkin JL, et al.
Otolaryngol Head Neck Surg 1989 Sep;101(3):314–9
Cochlear nucleus anatomy related to central electroauditory prosthesis implantation. Terr LI, et al.
Otolaryngol Head Neck Surg 1990 Jun;102(6):717–21
The prognostic value of round window electrical stimulation in cochlear implant patients. Waltzman SB, et al.
Otolaryngol Head Neck Surg 1990 Jul;103(1):102–6
Single-channel versus multichannel electrical stimulation. Voicing-frequency and formant-transition difference limens. Kuk FK. **Scand Audiol** 1989;18(3):149–53
Cochlear implants, vibrators and hearing aids in the rehabilitation of postlingual deafness. Rihkanen H, et al.
Scand Audiol 1990;19(2):117–21
Dynamic range of the contralateral stapedius reflex in cochlear implant patients. Stephan K, et al.
Scand Audiol 1990;19(2):111–5
[Cochlear implantation: clinical experience with 50 cases] Gao Y. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1989; 24(1):9–11, 62 (Eng. Abstr.) **(Chi)**
[Initial experience with rehabilitation of patients after cochlear implants] Novák A, et al. **Cesk Otolaryngol** 1989 Jul;38(4):244–51 (Eng. Abstr.) **(Cze)**
[Permanent, percutaneous osseointegrated titanium implants. A review and preliminary results] Bonding P.
Ugeskr Laeger 1990 Mar 5;152(10):664–7 (Eng. Abstr.) **(Dan)**
[Bone-anchored hearing aids. Preliminary results] Bonding P, et al. **Ugeskr Laeger** 1990 Mar 5;152(10):667–70 (Eng. Abstr.) **(Dan)**
[The Audiant Bone Conductor. Clinical experience in 2 patients] De Cock M, et al. **Acta Otorhinolaryngol Belg** 1989;43(2):141–8 (Eng. Abstr.) **(Dut)**
[Breaking through the silence] Admiraal RJ.
Ned Tijdschr Geneeskd 1989 Sep 30;133(39):1913–5 **(Dut)**
[The electronic inner ear prosthesis: for whom and with what kind of results?] Huizing EH. **Ned Tijdschr Geneeskd** 1989 Sep 30;133(39):1915–7 **(Dut)**
[The treatment of deafness] Montandon P.
Schweiz Rundsch Med Prax 1990 Aug 14;79(33):937–8 **(Fre)**
[Cochlear implant: prognosis factors] Lehnhardt E.
Auris Nasus Larynx 1989;16 Suppl 1:S1–8 (19 ref.) (Eng. Abstr.) **(Ger)**
[Cochlear implant—possibilities and limitations] Lehnhardt E. **Fortschr Med** 1990 Jul 30;108(22):433–6 (7 ref.) (Eng. Abstr.) **(Ger)**
[Cochlear Implant Mini-System 22 for the management of deaf preschool children] Lehnhardt E. **HNO** 1990 May; 38(5):161–5 (Eng. Abstr.) **(Ger)**
[Cochlear implants in patients with radical cavity] Schlöndorff G, et al. **HNO** 1989 Oct;37(10):423–5 (Eng. Abstr.) **(Ger)**
[Titanium implants in otorhinolaryngology] Tjellström A.
HNO 1989 Aug;37(8):309–14 (Eng. Abstr.) **(Ger)**
[Single channel cochlear implant: application to three patients] Gyo K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Jul;92(7):1042–8 (Eng. Abstr.) **(Jpn)**
[Modification of speech encoding process of single channel cochlear implant utilizing digital delay circuit] Gyo K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Aug;92(8):1253–8 (Eng. Abstr.) **(Jpn)**
[Effects of cochlear implant on the morphofunctional state of spiral ganglion neurocytes] Rakhmanova IV, et al.
Vestn Otorinolaringol 1989 Jul–Aug;(4):23–6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Loss of residual hearing after cochlear implantation. Boggess WJ, et al. **Laryngoscope** 1989 Oct;99(10 Pt 1):1002–5
Effects of stimulation by cochlear implant on the cochlear nerve. Terr LI, et al. **Laryngoscope** 1989 Nov;99(11):1171–4

PSYCHOLOGY

Place-pitch and vowel-pitch comparisons in cochlear implant patients using the Melbourne-Nucleus cochlear implant. Pauka CK. **J Laryngol Otol Suppl** 1989;19:1–31 (120 ref.)
[Psychological aspects of cochlear implants] Kaprál I.
Cesk Otolaryngol 1989 Jul;38(4):252–5 (Eng. Abstr.) **(Cze)**
[The cochlear implant and its psychosocial effects in 36 patients] Eisenwort B, et al. **Folia Phoniatr (Basel)** 1990; 42(2):71–6 (Eng. Abstr.) **(Ger)**

STANDARDS

Speech perception with a single-channel cochlear implant: a comparison with a single-channel tactile device. Carney AE, et al. **J Speech Hear Res** 1990 Jun;33(2):229–37
Temporal-gap detection by cochlear prosthesis users. Preece JP, et al. **J Speech Hear Res** 1989 Dec;32(4):849–56
Performance of some of the better cochlear-implant patients. Tyler RS, et al. **J Speech Hear Res** 1989 Dec;32(4):887–911

TRENDS

What should be implemented in future cochlear implants? Tyler RS. **Acta Otolaryngol Suppl (Stockh)** 1990;469:268–75
Current status of cochlear implants in adults, children. Lambert PR, et al. **Va Med** 1989 Aug;116(8):318–21

UTILIZATION

The effect of the Medicare prospective payment system on the adoption of new technology. The case of cochlear implants [see comments] Kane NM, et al.
N Engl J Med 1989 Nov 16;321(20):1378–83 Comment in: N Engl J Med 1990 May 3;322(18):1322–3.

COCHLEAR MICROPHONIC POTENTIALS see under **EVOKED POTENTIALS, AUDITORY**

COCHLEAR NERVE

Gd-DTPA-enhanced MR imaging of cochlear schwannoma. Brogan M, et al. **AJNR** 1990 Mar-Apr;11(2):407–8
Biocompatibility of the central electroauditory prosthesis and the human cochlear nuclei. Terr LI, et al. **Am J Otol** 1989 Sep;10(5):339–42
The solitary schwannoma of the eighth cranial nerve. An immunohistochemical study of the cochlear nerve-tumor interface. Marquet JF, et al.

Arch Otolaryngol Head Neck Surg 1990 Sep;116(9):1023–5
Hearing conservation in acoustic neuroma surgery via the posterior fossa. Baldwin DL, et al. **J Laryngol Otol** 1990 Jun;104(6):463–7
[Work hygiene of miners engaged in mining and processing of sand and gravel mixtures] Kiselev GI.
Gig Tr Prof Zabol 1990;(2):29–31 (Eng. Abstr.) **(Rus)**
[Improvement of primary and secondary prevention of occupational cochlear neuritis] Podol'skaia EV.
Vestn Otorinolaringol 1989 Sep–Oct;(5):3–5 (Eng. Abstr.) **(Rus)**
[Acoustic trauma and acute cochlear neuritis in servicemen] Vasil'ev AI, et al. **Voen Med Zh** 1990 Feb;(2):44–5 **(Rus)**

ANATOMY & HISTOLOGY

Saccular afferent fibers to the cochlear nucleus in the guinea pig. Burian M, et al. **Arch Otorhinolaryngol** 1989; 246(5):238–41
Projections from the sacculus to the cochlear nuclei in the Mongolian gerbil. Kevetter GA, et al.
Brain Behav Evol 1989;34(4):193–200
Functional organization of ascending and descending connections of the cochlear nucleus of horseshoe bats. Vater M, et al. **J Comp Neurol** 1990 Feb 15;292(3):373–95

CYTOLOGY

Morphology and physiology of cells in slice preparations of the posteroventral cochlear nucleus of mice. Oertel D, et al. **J Comp Neurol** 1990 May 1;295(1):136–54
Central projections of cochlear nerve fibers in the alligator lizard. Szpir MR, et al. **J Comp Neurol** 1990 May 22; 295(4):530–47
[Quantitative analysis of glia in the facial and vestibulocochlear nerves] Fujii M, et al.
Nippon Jibiinkoka Gakkai Kaiho 1990 May;93(5):723–30 (Eng. Abstr.) **(Jpn)**

EMBRYOLOGY

Morphology of the rat cochlear primary afferents during prenatal development: a Cajal's reduced silver and rapid Golgi study. Angulo A, et al. **J Anat** 1990 Feb;168:241–55
Prenatal development of the cochlear nerve in the albino rat. Angulo A, et al. **J Hirnforsch** 1990;31(1):13–23
[Neuronotrophic interactions in the developing inner ear] Lefebvre PP, et al. **Acta Otorhinolaryngol Belg** 1989; 43(5):403–9 (Eng. Abstr.) **(Fre)**
[Heterochronic maturation of the central and peripheral sections of the auditory system in cetaceans] Zharskaia VD, et al. **Nerv Sist** 1989;28:139–45 **(Rus)**

METABOLISM

Immunocytochemical and lesion studies support the hypothesis that the projection from the medial nucleus of the trapezoid body to the lateral superior olive is glycinergic. Bledsoe SC Jr, et al. **Brain Res** 1990 May 28; 517(1–2):189–94
Immunocytochemical localization of the GABAA/benzodiazepine receptor in the guinea pig cochlear nucleus: evidence for receptor localization heterogeneity. Juiz JM, et al. **Brain Res** 1989 Dec 11; 504(1):173–9
Transient expression of somatostatin mRNA in the auditory system of neonatal rat. Sekitani M, et al.
Brain Res Mol Brain Res 1990 Feb;7(2):177–81
Uptake and retrograde transport of [3H]GABA from the cochlear nucleus to the superior olive in the guinea pig. Ostapoff EM, et al. **J Chem Neuroanat** 1990 Jul–Aug; 3(4):285–95
Retrograde transport of [3H]glycine from the cochlear nucleus to the superior olive in the guinea pig. Benson CG, et al. **J Comp Neurol** 1990 Jun 15;296(3):415–26

PATHOLOGY

Cochlear nerve degeneration coincident with adrenocerebroleukodystrophy. Igarashi M, et al.
Arch Otolaryngol 1976 Dec;102(12):722–6
In search of cochlear morphologic correlates for tinnitus. Oliveira CA, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug;116(8):937–9
Effects of stimulation by cochlear implant on the cochlear nerve. Terr LI, et al. **Laryngoscope** 1989 Nov;99(11):1171–4

PHYSIOLOGY

Frequency selectivity in the auditory periphery: similarities between damaged and developing ears. Walsh EJ, et al. **Am J Otolaryngol** 1990 Jan–Feb;11(1):23–32
Cochlear neuroactive substances. Eybalin M, et al.
Arch Otorhinolaryngol 1989;246(5):228–34 (51 ref.)
Latency and amplitude tuning curves of the N1 and N2 components of the cochlear nerve compound action potential. Henry KR, et al. **Audiology** 1990;29(3):122–34
Cochlear threshold assessment using tone-derived action potentials. Salt AN, et al. **Audiology** 1990;29(3):135–45
Dynamic temporal properties of effective connections in rat dorsal cochlear nucleus. Gochin PM, et al. **Brain Res** 1990 Mar 5;510(2):195–202
Coordinated activity of neuron pairs in anesthetized rat dorsal cochlear nucleus. Gochin PM, et al. **Brain Res** 1989 Sep 11;497(1):1–11
Auditory brainstem of the ferret: bilateral cochlear lesions in infancy do not affect the number of neurons projecting from the cochlear nucleus to the inferior colliculus. Moore DR. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):125–30
Acoustic habituation in cats as a function of stimulus rate and the role of temporal conditioning of the middle ear muscles. Simons LA, et al.
Electroencephalogr Clin Neurophysiol 1966 May; 20(5):485–93
Amino acid uptake and release in the guinea pig cochlear nucleus after inferior colliculus ablation. Bergman M, et al. **Hear Res** 1989 Nov;42(2–3):283–91
Encoding of amplitude modulation in the gerbil cochlear nucleus: II. Possible neural mechanisms. Frisina RD, et al. **Hear Res** 1990 Mar;44(2–3):123–41
Encoding of amplitude modulation in the gerbil cochlear nucleus: I. A hierarchy of enhancement. Frisina RD, et al. **Hear Res** 1990 Mar;44(2–3):99–122
Spectral time-course analysis of firing patterns in the dorsal cochlear nucleus. Kaltenbach JA, et al. **Hear Res** 1989 Sep; 41(2–3):107–14
Does electrical stimulation of the crossed olivo-cochlear bundle produce movement of the organ of Corti? Patuzzi R, et al. **Hear Res** 1990 Apr;45(1–2):15–32
Responses of single units in the anteroventral cochlear nucleus of the guinea pig. Winter IM, et al. **Hear Res** 1990 Mar;44(2–3):161–78
Characterization of an EPSP-like potential recorded remotely from the round window. Dolan DF, et al.
J Acoust Soc Am 1989 Dec;86(6):2167–71
Effect of contralateral sound stimulation on the distortion product 2F1–F2: evidence that the medial efferent system is involved. Puel JL, et al. **J Acoust Soc Am** 1990 Apr; 87(4):1630–5
Middle-ear response in the chinchilla and its relationship to mechanics at the base of the cochlea. Ruggero MA, et al. **J Acoust Soc Am** 1990 Apr;87(4):1612–29
Statistical and receiver operating characteristic analysis of empirical spike-count distributions: quantifying the ability of cochlear nucleus units to signal intensity changes. Shofner WP, et al. **J Acoust Soc Am** 1989 Dec; 86(6):2172–84
Neural coding in the chick cochlear nucleus. Warchol ME, et al. **J Comp Physiol [A]** 1990 Mar;166(5):721–34
Neural response to very low-frequency sound in the avian cochlear nucleus. Warchol ME, et al.
J Comp Physiol [A] 1989 Nov;166(1):83–95
Afferent regulation of neurons in the brain stem auditory system. Rubel EW, et al. **J Neurobiol** 1990 Jan;21(1):169–96 (62 ref.)
Classification of unit types in the anteroventral cochlear nucleus: PST histograms and regularity analysis. Blackburn CC, et al. **J Neurophysiol** 1989 Dec;62(6):1303–29
The representations of the steady-state vowel sound /e/ in the discharge patterns of cat anteroventral cochlear nucleus neurons. Blackburn CC, et al. **J Neurophysiol** 1990 May; 63(5):1191–212
Recordings from cat trapezoid body and HRP labeling of globular bushy cell axons. Spirou GA, et al.
J Neurophysiol 1990 May;63(5):1169–90
Noradrenaline enhances temporal auditory contrast and neuronal timing precision in the cochlear nucleus of the mustached bat. Kössl M, et al. **J Neurosci** 1989 Dec; 9(12):4169–78
Adaptations of synaptic form in an aberrant projection to the avian cochlear nucleus. Parks TN, et al. **J Neurosci** 1990 Mar;10(3):975–84
Delayed, frequency-specific inhibition in the cochlear nuclei of mice: a mechanism for monaural echo suppression. Wickesberg RE, et al. **J Neurosci** 1990 Jun;10(6):1762–8
Voltage-gated and chemically gated ionic channels in the cultured cochlear ganglion neurone of the chick. Yamaguchi K, et al. **J Physiol (Lond)** 1990 Jan;420:185–206
Auditory brainstem prosthesis: biocompatibility of stimulation. Niparko JK, et al.
Otolaryngol Head Neck Surg 1989 Sep;101(3):344–52
Analysis and numerical solution of the dendrite equation with synapses applied to cochlear neurons. Winslow JL.
Prog Neurobiol 1990;34(2):91–105 (51 ref.)
[Activities of single cochlear nerve fibers in rats] Zheng CM, et al. **Sheng Li Hsueh Pao** 1989 Dec;41(6):555–61 (Eng. Abstr.) **(Chi)**
[Response of cochlear nucleus neurons of the cat to complex tone] Mori M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Apr;93(4):572–82 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Jaundiced Gunn rats have increased synaptic delays in the ventral cochlear nucleus. Zhang S, et al. **Brain Res** 1989 Oct 30;501(1):194–7
Changes in endocochlear potential during anoxia after intense noise exposure. Wang JA, et al. **Hear Res** 1990 Mar; 44(2–3):143–9
Tinnitus. I: Auditory mechanisms: a model for tinnitus and hearing impairment. Hazell JW, et al. **J Otolaryngol** 1990 Feb;19(1):1–5 (32 ref.)
Delayed spontaneous return of hearing after acoustic tumor surgery: evidence for cochlear nerve conduction block. Kveton JF. **Laryngoscope** 1990 May;100(5):473–6
[Sudden unilateral deafness and geotropic positional nystagmus—a special form of acute cochleo-vestibular disorders?] Böhmer A. **HNO** 1990 Feb;38(2):59–62 (Eng. Abstr.) **(Ger)**

ULTRASTRUCTURE

Synapses formed by olivocochlear axon branches in the mouse cochlear nucleus. Benson TE, et al.
J Comp Neurol 1990 May 1;295(1):52–70

COCHLEAR PROSTHESIS see **COCHLEAR IMPLANT**

COCHLIOBOLUS see **ASCOMYCETES**

COCKAYNE SYNDROME see under **DWARFISM**

COCKROACHES

Integrated suppression of synanthropic cockroaches. Schal C, et al. **Annu Rev Entomol** 1990;35:521–51 (176 ref.)
Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora cardiaca of the cockroaches Leucophaea maderae, Gromphadorhina portentosa, Blattella germanica and Blatta orientalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardment mass spectrometry. Gäde G, et al.
Biol Chem Hoppe Seyler 1990 Apr;371(4):345–54
Cockroaches (Periplaneta americana) as carriers of agents of bacterial diarrhoea in Accra, Ghana. Agbodaze D, et al. **Cent Afr J Med** 1989 Sep;35(9):484–6
Laboratory and field performance of consumer bait products for German cockroach (Dictyoptera: Blattellidae) control. Appel AG. **J Econ Entomol** 1990 Feb;83(1):153–9
Influence of insecticide treatment on German cockroach (Dictyoptera: Blattellidae) movement and dispersal within apartments. Barcay SJ, et al. **J Econ Entomol** 1990 Feb; 83(1):142–7
Pharmacodynamics of malathion and carbaryl in susceptible and multiresistant German cockroaches (Dictyoptera: Blattellidae). Bull DL, et al. **J Econ Entomol** 1989 Dec; 82(6):1512–9
Efficacy of chitin synthesis inhibitors on nymphal German cockroaches (Dictyoptera: Blattellidae). DeMark JJ, et al. **J Econ Entomol** 1989 Dec;82(6):1633–7
Sublethal effects of chlorpyrifos-methyl on reproduction in female German cockroaches (Dictyoptera: Blattellidae). Hamilton RL, et al. **J Econ Entomol** 1990 Apr;83(2):441–3
Topical and oral toxicity of sulfluramid, a delayed-action insecticide, against the German cockroach (Dictyoptera: Blattellidae). Reid BL, et al. **J Econ Entomol** 1990 Feb; 83(1):148–52
Influence of fenoxycarb on German cockroach (Dictyoptera: Blattellidae) populations in public housing. Reid BL, et al. **J Econ Entomol** 1990 Apr;83(2):444–50
Ovicidal activity of chitin synthesis inhibitors when fed to adult German cockroaches (Dictyoptera: Blattellidae). DeMark JJ, et al. **J Med Entomol** 1990 Jul;27(4):551–5
Comparative sterilizing and ovicidal activity of fenoxycarb and hydroprene in adults and oothecae of the German cockroach (Dictyoptera: Blattellidae). King JE, et al.
J Med Entomol 1990 Jul;27(4):642–5
Apparatus for evaluating vapor-induced dispersal of Blattella germanica (Dictyoptera: Blattellidae). Wooster MT, et al.
J Med Entomol 1990 Jul;27(4):703–5
Concensus chemistry and conformation of an insect neuropeptide family analogous to tachykinins. Nachman RJ, et al. **Prog Clin Biol Res** 1990;342:60–6
[The application of sex pheromones and juvenile hormone analogs on cockroaches] Chow YS, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1990 Jul; 6(7):389–401 (Eng. Abstr.) **(Chi)**
[The appearance of insecticide resistance in Blattella germanica in the German Democratic Republic] Klunker R. **Angew Parasitol** 1990 May;31(2):79–93 (Eng. Abstr.) **(Ger)**

ANALYSIS

Purification and characterization of lipopolysaccharide-binding protein from hemolymph of American cockroach Periplaneta americana. Jomori T, et al. **Eur J Biochem** 1990 May 31;190(1):201–6
Isolation and structure of two gastrin/CCK-like neuropeptides from the American cockroach homologous to the leucosulfakinins. Veenstra JA. **Neuropeptides** 1989 Oct;14(3):145–9
Immunochemistry and comparative insect (neuro) endocrinology. Verhaert P, et al. **Prog Clin Biol Res** 1990; 342:315–22 (23 ref.)

ANATOMY & HISTOLOGY

Evidence for a transcellular cisternal route across the caecal epithelium of an insect. Flores V, et al. **Cell Tissue Res** 1990 Aug;261(2):347–54
GABA-immunohistochemistry as a label for identifying types of local interneurons and their synaptic contacts in the antennal lobes of the American cockroach. Distler P.
Histochemistry 1990;93(6):617–26
Synaptic connections of dopamine-immunoreactive neurons in the antennal lobes of Periplaneta americana. Colocalization with GABA-like immunoreactivity. Distler P. **Histochemistry** 1990;93(4):401–8
Morphometric analysis of corpus allatum cells in adult females of three cockroach species. Chiang AS, et al.
Mol Cell Endocrinol 1989 Dec;67(2–3):179–84

CYTOLOGY

[Cultures in vitro of embryonic cells of cockroaches (Dictyoptera insects)] Landureau JC. **Exp Cell Res** 1966 Mar;41(3):545–56 (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

Pharmacological actions of a new class of neuropeptides, the leucokinins I–IV, on the visceral muscles of Leucophaea maderae. Cook BJ, et al. **Comp Biochem Physiol [C]** 1989; 93(2):257–62

Comparative pharmacological actions of leucokinins V–VIII on the visceral muscles of Leucophaea maderae. Cook BJ, et al. **Comp Biochem Physiol [C]** 1990;95(1):19–24

Effects of paraoxon on spike initiation and conduction block in the giant interneurons of the American cockroach, Periplaneta americana. Heppner TJ, et al. **Comp Biochem Physiol [C]** 1989;94(2):515–9

[Effectiveness of 2,6–dihalogenbenzoyl urea derivatives as potential inhibitors of chitin biosynthesis regarding the house fly Musca domestica L. and cockroach Blatella germanica L.] Styczyńska B, et al. **Rocz Panstw Zakl Hig** 1989;40(1):73–85 (Eng. Abstr.) **(Pol)**

GENETICS

Sexual selection in Nauphoeta cinerea: inherited mating preference? Moore AJ. **Behav Genet** 1989 Sep;19(5):717–24

Genetics of the German cockroach. Ross MH, et al. **Comp Biochem Physiol [A]** 1989;94(4):551–4 (9 ref.)

GROWTH & DEVELOPMENT

[The attractiveness of various heat insulation substrates and their effect on the reproductive rate of the German cockroach and recommendations for preventing cockroaches] Klunker R. **Z Gesamte Hyg** 1989 Sep; 35(9):527–30 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Role of cockroaches in allergy to house dust in Calcutta, India. Tandon N, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):155–7

Shared and specific allergenic and antigenic components in the two sexes of American cockroach—Periplaneta americana. Chaudhry S, et al. **Clin Exp Allergy** 1990 Jan; 20(1):59–65

Cockroach allergy. Kang BC. **Clin Rev Allergy** 1990 Spring; 8(1):87–98 (48 ref.)

Gastrin–cholecystokinin–like and neuroparsin–like immunoreactivities in the brain and retrocerebral neuroendocrine complex of the cockroach Blattella germanica. Tamarelle M, et al. **Histochemistry** 1990; 93(4):433–8

Studies on the cellular defense reactions of the madeira cockroach, Leucophaea maderae: in vitro phagocytosis of different strains of Bacillus cereus and their effect on hemocyte viability. Rahmet–Alla M, et al. **J Invertebr Pathol** 1990 May;55(3):350–6

The reappearance of a developmental stage–specific antigen in adult regenerating neurons of the cockroach. Denburg JL. **J Neurosci** 1989 Oct;9(10):3491–504

METABOLISM

Simulation of the activation of fat body glycogen phosphorylase and trehalose synthesis by peptide hormones in the American cockroach. Veenstra JA. **Biosystems** 1989; 23(1):31–40

Allometry of resting metabolic rate in cockroaches. Coelho JR, et al. **Comp Biochem Physiol [A]** 1989;94(4):587–90

The hypertrehalosaemic peptides of cockroaches: a phylogenetic study. Gäde G. **Gen Comp Endocrinol** 1989 Aug;75(2):287–300

Catecholamines and related o–diphenols in cockroach hemolymph and cuticle during sclerotization and melanization: comparative studies on the order Dictyoptera. Czapla TH, et al. **J Comp Physiol [B]** 1990; 160(2):175–81

Structure–activity relationships on hyperglycemia by representatives of the adipokinetic/hyperglycemic hormone family in Blaberus discoidalis cockroaches. Hayes TK, et al. **J Comp Physiol [B]** 1990;160(2):187–94

Changes in the sensitivity of adult cockroach corpora allata to a brain allatostatin. Pratt GE, et al. **Mol Cell Endocrinol** 1990 Apr 17;70(2):185–95

The metabolic neuropeptides of the corpus cardiacum from the potato beetle and the American cockroach are identical. Gäde G, et al. **Peptides** 1989 Nov–Dec;10(6):1287–9

Role of intracellular messengers in the regulation of juvenile hormone biosynthesis in the cockroach, Diploptera punctata. Tobe SS. **Prog Clin Biol Res** 1990;342:174–9 (16 ref.)

MICROBIOLOGY

Cockroaches as vectors of pathogenic bacteria. Fotedar R, et al. **J Commun Dis** 1989 Dec;21(4):318–22

Bacterial pathogens isolated from cockroaches trapped from paediatric wards in peninsular Malaysia. Oothuman P, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):133–5

[Bacteriologic studies of flies and cockroaches in the residential quarters of refuse disposal sites in Cairo (Mokattam and Ezbeth el Nakhl)] Sixl W, et al. **Geogr Med Suppl** 1989;3:123–6 (Eng. Abstr.) **(Ger)**

[The significance of disinfection in preventing nosocomial infections] Ulewicz K, et al. **Z Gesamte Hyg** 1990 Feb; 36(2):91–2 (Eng. Abstr.) **(Ger)**

[The cockroach as a vector of pathogenic agents] Ramírez Pérez J. **Bol Of Sanit Panam** 1989 Jul;107(1):41–53 (Eng. Abstr.) **(Spa)**

PARASITOLOGY

Effect of Moniliformis moniliformis density on distribution within the definitive host population (Rattus norvegicus). Monks S, et al. **Int J Parasitol** 1989 Dec;19(8):865–74

A study of the protozoa associated with some harmful insects in the local environment. Koura EA, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):105–15

Intermediate host of Mediorhynchus orientalis (Acanthocephala: Gigantorhynchidae). Bolette DP. **J Parasitol** 1990 Aug;76(4):575–7

[The cockroach as a vector of pathogenic agents] Ramírez Pérez J. **Bol Of Sanit Panam** 1989 Jul;107(1):41–53 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Different ionic current patterns of acutely isolated neurons from the terminal ganglion of the cockroach Periplaneta americana L. Gündel J, et al. **Biomed Biochim Acta** 1990; 49(1):75–82

Ouabain selectively affects the slow component of sensory adaptation in an insect mechanoreceptor. French AS. **Brain Res** 1989 Dec 11;504(1):112–4

Diet selection by adult female Parcoblatta fulvescens cockroaches during the oothecal cycle. Lembke HF, et al. **Comp Biochem Physiol [A]** 1990;95(1):195–9

Stimulatory activity of cysteamine on juvenile hormone release in adult females of the cockroach, Blattella germanica. Piulachs MD, et al. **Comp Biochem Physiol [A]** 1989;94(4):795–8

Response of male corpora allata to ovarian stimulation in the cockroach, Diploptera punctata. Stay B, et al. **Gen Comp Endocrinol** 1990 Jan;77(1):127–35

Ultrastructural changes in glial cells during regeneration of cockroach peripheral nerve. Blanco RE. **GLIA** 1990; 3(2):98–109

Effects of light on circadian pacemaker development. I. The freerunning period. Barrett RK, et al. **J Comp Physiol [A]** 1989 Apr;165(1):41–9

Synaptic specificity in the first instar cockroach: patterns of monosynaptic input from filiform hair afferents to giant interneurons. Blagburn JM. **J Comp Physiol [A]** 1989 Nov; 166(1):133–42

The code for stimulus direction in a cell assembly in the cockroach. Camhi JM, et al. **J Comp Physiol [A]** 1989 Apr; 165(1):83–97

A circadian rhythm in neural activity can be recorded from the central nervous system of the cockroach. Colwell CS, et al. **J Comp Physiol [A]** 1990 Mar;166(5):643–9

Multiple feedback loops in the flying cockroach: excitation of the dorsal and inhibition of the ventral giant interneurons. Libersat F, et al. **J Comp Physiol [A]** 1989 Sep;165(5):651–68

Effects of light on circadian pacemaker development. II. Responses to light. Page TL, et al. **J Comp Physiol [A]** 1989 Apr;165(1):51–9

Energetics of ascent: insects on inclines. Full RJ, et al. **J Exp Biol** 1990 Mar;149:307–17

Mechanics of six–legged runners. Full RJ, et al. **J Exp Biol** 1990 Jan;148: 129–46

Nonlinear signal transmission between second– and third–order neurons of cockroach ocelli. Mizunami M. **J Gen Physiol** 1990 Feb;95(2):297–317

Distribution and movement patterns of German cockroaches (Dictyoptera: Blattellidae) within apartment buildings. Runstrom ES, et al. **J Med Entomol** 1990 Jul;27(4):515–8

Localization of the enhanced input to cockroach giant interneurons after partial deafferentation. Volman SF. **J Neurobiol** 1989 Dec;20(8):762–83

COCONUT see under **NUTS**

COD LIVER OIL see under **FISH OILS**

CODEINE

Codeine abuse from co–codaprin [letter; comment] Paterson JR, et al. **Lancet** 1990 Jan 27;335(8683):224 Comment on: Lancet 1989 Nov 25;2(8674):1282.

Codeine abuse [letter] [see comments] Sakol MS, et al. **Lancet** 1989 Nov 25;2(8674):1282 Comment in: Lancet 1990 Jan 27;335(8683):224.

Preferences for opioids by the weight pulling method in rats. Suzuki T, et al. **Pharmacol Biochem Behav** 1990 Feb; 35(2):413–8

A multiinstitutional evaluation of the analgesic efficacy and safety of ketorolac tromethamine, acetaminophen plus codeine, and placebo in cancer pain. Carlson RW, et al. **Pharmacotherapy** 1990;10(3):211–6

[The detection of codeine abuse by hair analysis] Scheller M, et al. **Dtsch Med Wochenschr** 1990 Aug 31; 115(35):1313–5 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Plasma codeine and morphine concentrations after a single oral dose of codeine phosphate. Shah JC, et al. **J Clin Pharmacol** 1990 Aug;30(8):764–6

Double–blind comparison of meclofenamate sodium plus codeine, meclofenamate sodium, codeine, and placebo for relief of pain following surgical removal of third molars. Giglio JA, et al. **J Oral Maxillofac Surg** 1990 Aug; 48(8):785–90

ADVERSE EFFECTS

Multiple–dose safety study of ibuprofen/codeine and aspirin/codeine combinations. Friedman H, et al. **J Clin Pharmacol** 1990 Jan;30(1):65–9

Codeine in analgesic doses does not depress respiration in patients with severe chronic obstructive lung disease. Munck LK, et al. **Pharmacol Toxicol** 1990 May; 66(5):335–40

ANALOGS & DERIVATIVES

Evaluation of two formulations of dihydrocodeine using patient–controlled analgesia. Aitken HA, et al. **Anaesthesia** 1990 Jul;45(7):535–7

Prophylactic analgesia for daycase termination of pregnancy. A double–blind study with controlled release dihydrocodeine. Heath PJ, et al. **Anaesthesia** 1989 Dec; 44(12):991–4

Electroencephalographical analysis of acute drug intoxication—SS Bron solution–W. Tokunaga I, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Dec;24(6):471–9

Metabolism of pholcodine in man. Maurer HH, et al. **Arzneimittelforschung** 1990 May;40(5):564–6

Misuse of dihydrocodeine tartrate (DF 118) among opiate addicts [letter] **BMJ** 1990 Jul 14;301(6743):119

Misuse of dihydrocodeine tartrate (DF 118) among opiate addicts. Swadi H, et al. **BMJ** 1990 May 19;300(6735):1313

Morphine and oxycodone hydrochloride in the management of cancer pain. Kalso E, et al. **Clin Pharmacol Ther** 1990 May;47(5):639–46

The effect of ageing on the pharmacokinetics of dihydrocodeine. Davies KN, et al. **Eur J Clin Pharmacol** 1989;37(4):375–9

Simultaneous determination of codeine, norcodeine and morphine in biological fluids by high–performance liquid chromatography with fluorescence detection. Chen ZR, et al. **J Chromatogr** 1989 Jul 21;491(2):367–78

Direct determination of codeine–6–glucuronide in plasma and urine using solid–phase extraction and high–performance liquid chromatography with fluorescence detection. Chen ZR, et al. **J Chromatogr** 1989 Sep 1;493(2):313–24

New 14–aminomorphinones and codeinones. Lewis J, et al. **NIDA Res Monogr** 1988;90:136–43

Psychomotor, respiratory and neuroendocrinological effects of a mu–opioid receptor agonist (oxycodone) in healthy volunteers. Saarialho–Kere U, et al. **Pharmacol Toxicol** 1989 Oct;65(4):252–7

[Dihydrocodeine in substance dependence] Ulmer A. **Fortschr Med** 1990 Apr 30;108(13):261 **(Ger)**

[Behavioral study on an antitussive and expectorant, and of its constituents. I. Effects on ambulatory activity and discrete lever–press avoidance response in mice] Kuribara H, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Oct; 24(5):417–29 (Eng. Abstr.) **(Jpn)**

[Behavioral study on an antitussive and expectorant, and of its constituents. II. Effects on ambulatory activity after repeated administration, and a modification of the methamphetamine sensitivity in mice] Kuribara H, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Oct;24(5):430–8 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Comparison of derivatives for determination of codeine and morphine by gas chromatography/mass spectrometry. Chen BH, et al. **J Anal Toxicol** 1990 Jan–Feb;14(1):12–7

Testing human hair for drugs of abuse. I. Individual dose and time profiles of morphine and codeine in plasma, saliva, urine, and beard compared to drug–induced effects on pupils and behavior. Cone EJ. **J Anal Toxicol** 1990 Jan–Feb;14(1):1–7

Simultaneous determination of codeine, norcodeine and morphine in biological fluids by high–performance liquid chromatography with fluorescence detection. Chen ZR, et al. **J Chromatogr** 1989 Jul 21;491(2):367–78

Determination of codeine and its metabolites in human blood plasma and in microsomal incubates by high–performance liquid chromatography with ultraviolet detection. Persson K, et al. **J Chromatogr** 1989 Jul 21;491(2):473–80

Presence of endogenous opiate alkaloids. Spector S, et al. **Prog Clin Biol Res** 1990;342:79–80

BLOOD

Plasma codeine and morphine concentrations after a single oral dose of codeine phosphate. Shah JC, et al. **J Clin Pharmacol** 1990 Aug;30(8):764–6

IMMUNOLOGY

Skin prick test responses to codeine, histamine, and ragweed utilizing the Multitest device. Lin RY, et al. **Ann Allergy** 1990 Sep;65(3):222–6

Skin reactivity to codeine and histamine during prolonged

corticosteroid therapy. Olson R, et al.
J Allergy Clin Immunol 1990 Aug;86(2):153–9

METABOLISM

Interindividual and interethnic differences in the demethylation and glucuronidation of codeine. Yue QY, et al. **Br J Clin Pharmacol** 1989 Dec;28(6):629–37

Codeine O-demethylation co-segregates with polymorphic debrisoquine hydroxylation. Yue QY, et al.
Br J Clin Pharmacol 1989 Dec;28(6):639–45

Direct determination of codeine-6-glucuronide in plasma and urine using solid-phase extraction and high-performance liquid chromatography with fluorescence detection. Chen ZR, et al. **J Chromatogr** 1989 Sep 1;493(2):313–24

Morphine formation from codeine in rat brain: a possible mechanism of codeine analgesia. Chen ZR, et al.
Life Sci 1990;46(15):1067–74

Glucuronidation of codeine and morphine in human liver and kidney microsomes: effect of inhibitors. Yue Q, et al.
Pharmacol Toxicol 1990 Mar;66(3):221–6

PHARMACOKINETICS

Polymorphic formation of morphine from codeine in poor and extensive metabolizers of dextromethorphan: relationship to the presence of immunoidentified cytochrome P-450IID1. Mortimer O, et al.
Clin Pharmacol Ther 1990 Jan;47(1):27–35

PHARMACOLOGY

Effect of codeine on the sensations elicited by loaded breathing. Supinski G, et al. **Am Rev Respir Dis** 1990 Jun; 141(6):1516–21

Analgesic effect of Fiorinal with codeine. Madore P, et al.
Anesth Analg 1967 Jul–Aug;46(4):405–9

Cutaneous responses to histamine, compound 48/80 and codeine in patients with hyperthyroidism. Goldberg A, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):179–81

Dose-response inhibition of rat compound nerve action potential by dextropropoxyphene and codeine compared to morphine and cocaine in vitro. Brodin P, et al.
Gen Pharmacol 1990;21(4):551–3

The acute effects of codeine on human aggressive and non-aggressive behavior. Spiga R, et al.
NIDA Res Monogr 1989;95:479–80

Codeine analgesic and morphine hyperalgesic effects on thermal nociception in domestic fowl. Hughes RA.
Pharmacol Biochem Behav 1990 Mar;35(3):567–70

Effect of codeine and oxazepam on afternoon cortisol secretion in men. Garland EJ, et al.
Psychoneuroendocrinology 1989;14(5):397–402

THERAPEUTIC USE

Evaluation of analgesic agents in recurring headache compared with other clinical pain models. Gawel MJ, et al. **Clin Pharmacol Ther** 1990 Apr;47(4):504–8

Fiorinal with codeine in the treatment of tension headache—the contribution of components to the combination drug. Friedman AP, et al. **Clin Ther** 1988; 10(3):303–15

Comparison of flurbiprofen and acetaminophen with codeine in postoperative foot pain. Ottinger ML, et al.
J Am Podiatr Med Assoc 1990 May;80(5):266–70

Evaluation of flurbiprofen, acetaminophen, an acetaminophen-codeine combination, and placebo in postoperative oral surgery pain. Forbes JA, et al.
Pharmacotherapy 1989;9(5):322–30

[Antitussive effects of Bakumondô-tô and codeine in bronchitic guinea-pigs] Miyata T, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1989 Oct; 27(10):1157–62 (Eng. Abstr.) **(Jpn)**

URINE

Simultaneous detection and quantitation of O6-monoacetylmorphine, morphine and codeine in urine by gas chromatography with nitrogen specific and/or flame ionization detection. Vu-Duc T, et al.
Biomed Chromatogr 1990 Mar;4(2):65–9

Simultaneous determination of monoacetylmorphine, morphine, codeine, and other opiates by GC/MS. Bowie LJ, et al. **J Anal Toxicol** 1989 Nov–Dec;13(6):326–9

CODON see under **RNA, MESSENGER**

COELENTERATA

Binding of a radiolabeled sea anemone cytolysin to erythrocyte membranes. Doyle JW, et al.
Biochim Biophys Acta 1989 Dec 28;987(2):181–6

Treatment of a pigmented lesion induced by a Pelagia noctiluca sting. Kokelj F, et al. **Cutis** 1990 Jul;46(1):62–4

Histologic study of delayed reactions to coelenterates. Piérard GE, et al. **J Am Acad Dermatol** 1990 Apr; 22(4):599–601

Solution structure of neurotoxin I from the sea anemone Stichodactyla helianthus. A nuclear magnetic resonance, distance geometry, and restrained molecular dynamics study. Fogh RH, et al. **J Biol Chem** 1990 Aug 5; 265(22):13016–28

Cutaneous reactions caused by experimental exposure to jellyfish, Carybdea rastonii. Ohtaki N, et al. **J Dermatol** 1990 Feb;17(2):108–14

Cold packs: effective topical analgesia in the treatment of painful stings by Physalia and other jellyfish. Exton DR, et al. **Med J Aust** 1989 Dec 4–18;151(11–12):625–6

Successful use of Chironex antivenom by members of the Queensland Ambulance Transport Brigade. Fenner PJ, et al. **Med J Aust** 1989 Dec 4–18;151(11–12):708–10

Cardiac failure following Irukandji envenomation. Martin JC, et al. **Med J Aust** 1990 Aug 6;153(3):164–6

Isolation of L-3-phenyllactyl-Leu-Arg-Asn-NH2 (Antho-RNamide), a sea anemone neuropeptide containing an unusual amino-terminal blocking group.
Grimmelikhuijzen CJ, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5410–4

Three-dimensional structure of the neurotoxin ATX Ia from Anemonia sulcata in aqueous solution determined by nuclear magnetic resonance spectroscopy. Widmer H, et al. **Proteins** 1989;6(4):357–71

[Coral as a substitute for bone in pediatric orthopedics] Pouliquen JC, et al. **Ann Pediatr (Paris)** 1990 Jan; 37(1):59–61 **(Fre)**

[Coral substituted for bone grafting in posterior vertebral arthrodesis in children. Initial results] Pouliquen JC, et al. **Rev Chir Orthop** 1989;75(6):360–9 (Eng. Abstr.) **(Fre)**

[Dermatotoxicity caused by Chrysaora hysoscella. Presentation of a case] Kokelj F, et al.
G Ital Dermatol Venereol 1989 Jun;124(6):297–8 (Eng. Abstr.) **(Ita)**

[Modification of the neurotoxin RTX-III from the sea anemone Radianthus macrodactylus] Makhnyr' VM, et al. **Bioorg Khim** 1990 May;16(5):643–8 (Eng. Abstr.) **(Rus)**

[Disulfide bonds in neurotoxin-III from the sea anenome Radianthus macrodactylus] Zykova TA, et al.
Bioorg Khim 1989 Jul;15(7):904–7 (Eng. Abstr.) **(Rus)**

ANALYSIS

Amino acid sequence of the Ca2(+)-triggered luciferin binding protein of Renilla reniformis. Kumar S, et al.
FEBS Lett 1990 Jul 30;268(1):287–90

A new spermatostatic glycoside from the soft coral Sinularia crispa. Tillekeratne LM, et al. **J Nat Prod** 1989 Sep–Oct; 52(5):1143–5

Biochemical and pharmacological studies of the mechanism of action of tenebrosin-C, a cardiac stimulatory and haemolytic protein from the sea anemone, Actinia tenebrosa. Galettis P, et al. **Toxicon** 1990;28(6):695–706

[Determination of calcium carbonate, trace elements and amino acids in Os Sepiae] Zhao Z, et al.
Chung Kuo Chung Yao Tsa Chih 1990 Jan;15(1):41–3, 64 (Eng. Abstr.) **(Chi)**

ANATOMY & HISTOLOGY

Louis Agassiz and the discovery of the coelenterate nervous system. Mackie GO. **Pubbl Stn Zool Napoli [II]** 1989; 11(1):71–81

GENETICS

Biochemical correlates of genetic variation in marine lower invertebrates. Sole-Cava AM, et al. **Biochem Genet** 1989 Jun;27(5–6):303–12

The 18S ribosomal RNA sequence of the sea anemone Anemonia sulcata and its evolutionary position among other eukaryotes. Hendriks L, et al. **FEBS Lett** 1990 Sep 3;269(2):445–9

Nucleotide sequences of highly repetitive DNA from scleractinian corals. McMillan J, et al. **Gene** 1989 Nov 15; 83(1):185–6

From Luc and Phot genes to the hospital bed. Campbell AK, et al. **J Biolumin Chemilumin** 1990 Apr–Jun;5(2):131–9

IMMUNOLOGY

Acute reactions to coelenterates. Letot B, et al.
Dermatologica 1990;180(4):224–7

[Red soft coral-induced allergic symptoms observed in spiny lobster fishermen] Onizuka R, et al. **Arerugi** 1990 Mar; 39(3):339–47 (Eng. Abstr.) **(Jpn)**

METABOLISM

Sequential 1H-NMR assignments and secondary structure of the sea anemone polypeptide anthopleurin-A. Mabbutt BC, et al. **Eur J Biochem** 1990 Feb 14;187(3):555–63

Complete amino acid sequence of tenebrosin-C, a cardiac stimulatory and haemolytic protein from the sea anemone Actinia tenebrosa. Simpson RJ, et al. **Eur J Biochem** 1990 Jun 20;190(2):319–28

Serotonin-immunoreactive neurons in the cnidarian Renilla koellikeri. Umbriaco D, et al. **J Comp Neurol** 1990 Jan 8;291(2):167–78

3,4-Dihydroxyphenylethylamine, L-3,4-dihydroxyphenylalanine and 3,4,5-trihydroxyphenylalanine: oxidation and binding to membranes. A comparative study of a neurotransmitter, a precursor and a neurotransmitter candidate in primitive nervous systems. Carlberg M.
J Neural Transm Gen Sect 1990;81(2):111–9

Purification and characterisation of proteins with cardiac stimulatory and haemolytic activity from the anemone Actinia tenebrosa. Norton RS, et al. **Toxicon** 1990; 28(1):29–41

[Amino acid sequence of a neurotoxin from the anemone Radianthus macrodactylus] Zykova TA, et al.
Bioorg Khim 1989 Oct;15(10):1301–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Neurones and neuropeptides in coelenterates.
Grimmelikhuijzen CJ, et al. **Arch Histol Cytol** 1989;52 Suppl:265–78 (53 ref.)

Electrophysiology of the swimming system of hydromedusae and the effects of atropine-induced crumpling. Scemes E, et al. **Braz J Med Biol Res** 1989;22(2):189–98

Intercellular signaling as visualized by endogenous calcium-dependent bioluminescence. Brehm P, et al.
Neuron 1989 Aug;3(2):191–8

Eicosanoids in corals and crustaceans: primary metabolites that function as allelochemicals and pheromones. Gerhart DJ, et al. **Prog Clin Biol Res** 1990;342:598–602 (31 ref.)

Marine invertebrate mucus—agglutinating and antibacterial activity, with emphasis on Metridium senile. Astley MR, et al. **Symp Soc Exp Biol** 1989;43:367–77

COELENTERATE VENOMS

Histologic study of delayed reactions to coelenterates. Piérard GE, et al. **J Am Acad Dermatol** 1990 Apr; 22(4):599–601

Solution structure of neurotoxin I from the sea anemone Stichodactyla helianthus. A nuclear magnetic resonance, distance geometry, and restrained molecular dynamics study. Fogh RH, et al. **J Biol Chem** 1990 Aug 5; 265(22):13016–28

Successful use of Chironex antivenom by members of the Queensland Ambulance Transport Brigade. Fenner PJ, et al. **Med J Aust** 1989 Dec 4–18;151(11–12):708–10

Three-dimensional structure of the neurotoxin ATX Ia from Anemonia sulcata in aqueous solution determined by nuclear magnetic resonance spectroscopy. Widmer H, et al. **Proteins** 1989;6(4):357–71

ADVERSE EFFECTS

[Dermatotoxicity caused by Chrysaora hysoscella. Presentation of a case] Kokelj F, et al.
G Ital Dermatol Venereol 1989 Jun;124(6):297–8 (Eng. Abstr.) **(Ita)**

ANALYSIS

Evidence for leukotrienes in animal venoms. Czarnetzki BM, et al. **J Allergy Clin Immunol** 1990 Feb;85(2):505–9

Purification and characterisation of proteins with cardiac stimulatory and haemolytic activity from the anemone Actinia tenebrosa. Norton RS, et al. **Toxicon** 1990; 28(1):29–41

[Disulfide bonds in neurotoxin-III from the sea anenome Radianthus macrodactylus] Zykova TA, et al.
Bioorg Khim 1989 Jul;15(7):904–7 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Chemical synthesis. Scaling molecular Everests [news] Mann J. **Nature** 1989 Nov 16;342(6247):227–8

METABOLISM

[Disulfide bonds in neurotoxin-III from the sea anenome Radianthus macrodactylus] Zykova TA, et al.
Bioorg Khim 1989 Jul;15(7):904–7 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Detection of transient capacitance increase associated with channel formation in lipid bilayers. Chanturiya AN.
Biochim Biophys Acta 1990 Jul 24;1026(2):248–50

The cardiac sodium channel shows a regular substate pattern indicating synchronized activity of several ion pathways instead of one. Schreibmayer W, et al.
Biochim Biophys Acta 1989 Nov 17;986(1):172–86

Effect of palytoxin on the calcium current and the mechanical activity of frog heart muscle. Sauviat MP.
Br J Pharmacol 1989 Nov;98(3):773–80

Structure-activity studies of the nonphorbol tumor promoter palytoxin in Swiss 3T3 cells. Wattenberg EV, et al.
Cancer Res 1989 Nov 1;49(21):5837–42

Effects of a high molecular weight polypeptidic toxin from Physalia physalis (Portuguese man-of-war) on cholinergic responses. Menéndez R, et al.
Comp Biochem Physiol [C] 1990;95(1):63–9

Palytoxin acidifies chick cardiac cells and activates the Na+/H+ antiporter. Frelin C, et al. **FEBS Lett** 1990 May 7;264(1):63–6

Pharmacological actions of tentacle extract of the jellyfish, Acromitus rabanchatu, occurring in the Bay of Bengal. Ghosh TK, et al. **Indian J Exp Biol** 1990 Jan;28(1):39–42

Palytoxin acts through Na+,K+-ATPase. Habermann E. **Toxicon** 1989;27(11):1171–87 (61 ref.)

The nematocyst extract of Hydra attenuata causes single channel events in lipid bilayers. Weber J, et al. **Toxicon** 1990;28(4):403–9

POISONING

Marine envenomations and aquatic dermatology [letter; comment] Parrish DO. **Am Fam Physician** 1990 Apr; 41(4):1092–4, 1099 Comment on: Am Fam Physician 1989 Aug;40(2):97–106.

Cardiac failure following Irukandji envenomation. Martin JC, et al. **Med J Aust** 1990 Aug 6;153(3):164–6
Prolonged blurred vision following coelenterate envenomation. Burnett HW, et al. **Toxicon** 1990;28(6):731–3
Clinical and laboratory findings implicating palytoxin as cause of ciguatera poisoning due to Decapterus macrosoma (mackerel). Kodama AM, et al. **Toxicon** 1989;27(9):1051–3

TOXICITY

Haemolytic and phospholipase A activities of the tentacle extract of Catostylus mosaicus. Azila N, et al. **Biochem Int** 1990;20(2):291–9
Glycaemic effects of tentacle extract of the jellyfish Acromitus rabanchatu (Annandale). Ghosh TK, et al. **Indian J Exp Biol** 1990 May;28(5):441–3
Verapamil potentiation of Chironex (box-jellyfish) antivenom. Burnett JW, et al. **Toxicon** 1990;28(2):242–4
Modification of arginine in sea anemone toxin RTX–III from Radianthus macrodactylus. Mahnir VM, et al. **Toxicon** 1989;27(10):1075–84
[Modification of the neurotoxin RTX–III from the sea anemone Radianthus macrodactylus] Makhnyr' VM, et al. **Bioorg Khim** 1990 May;16(5):643–8 (Eng. Abstr.) **(Rus)**

COENDU see RODENTIA

COENURIASIS see CESTODE INFECTIONS

COENZYME I see NAD

COENZYME II see NADP

COENZYME A

ANALYSIS

4–Thia–trans–2–alkenoyl–CoA derivatives: properties and enzymatic reactions. Lau SM, et al. **Biochemistry** 1989 Oct 3;28(20):8255–62

BLOOD

Enzymes for liberation of pantothenic acid in blood: use of plasma pantetheinase. Wittwer CT, et al. **Am J Clin Nutr** 1989 Nov;50(5):1072–8

METABOLISM

Radioisotopic assays of CoASH and carnitine and their acetylated forms in human skeletal muscle. Cederblad G, et al. **Anal Biochem** 1990 Mar;185(2):274–8
Hepatocytes mediate coenzyme A transfer to specific carbohydrate–derivatized surfaces. Weisz OA, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):67–73
Depletion of mitochondrial coenzyme A and glutathione by 4–dimethylaminophenol and formation of mixed thioethers. Eckert KG, et al. **Biochem Pharmacol** 1989 Oct 1; 38(19):3253–9
The oxidation of dicarboxylic acid CoA esters via peroxisomal fatty acyl–CoA oxidase. Poosch MS, et al. **Biochim Biophys Acta** 1989 Dec 18;1006(3):291–8
Incorporation of retinoic acid into proteins via retinoyl–CoA. Renstrom B, et al. **Biochim Biophys Acta** 1989 Sep 14; 998(1):69–74
Stereoselective arylpropionyl–CoA thioester formation in vitro. Knadler MP, et al. **Chirality** 1990;2(2):67–73
Dependence of mitochondrial coenzyme A uptake on the membrane electrical gradient. Tahiliani AG. **J Biol Chem** 1989 Nov 5;264(31):18426–32
Metabolism of pantothenic acid in hearts of diabetic rats. Beinlich CJ, et al. **J Mol Cell Cardiol** 1989 Jul;21(7):641–9
Coenzyme A metabolism in vitamin B–12–deficient rats. Brass EP, et al. **J Nutr** 1990 Mar;120(3):290–7
An improved high–performance liquid chromatographic assay for the determination of free and esterified carnitine in animal tissues. Arakawa N, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Oct;35(5):475–9
Fatty acid oxidation in soluble systems of mammalian origin: the beginnings. Beinert H. **Prog Clin Biol Res** 1990;321:1–22 (46 ref.)
[Effect of procaine and procaine metabolites on coenzyme A and acetyl coenzyme A concentration in various tissues of the rat] Kietzmann M, et al. **ZFA** 1989 Jul–Aug; 44(4):211–7 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Purification of lysophosphatidylcholine transacylase from bovine heart muscle microsomes and regulation of activity by lipids and coenzyme A. Sanjanwala M, et al. **Biochim Biophys Acta** 1989 Nov 28;1006(2):203–8

PHYSIOLOGY

Very high proportion of disaturated molecular species in rat platelet diacyl–glycerophosphocholine: involvement of CoA–dependent transacylation reactions. Masrar H, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):116–23

COENZYME A SYNTHETASES

ANALYSIS

Topographical localization of peroxisomal acyl–CoA ligases: differential localization of palmitoyl–CoA and lignoceroyl–CoA ligases. Lazo O, et al. **Biochemistry** 1990 Apr 24;29(16):3981–6

ANTAGONISTS & INHIBITORS

Allicin, a naturally occurring antibiotic from garlic, specifically inhibits acetyl–CoA synthetase. Focke M, et al. **FEBS Lett** 1990 Feb 12;261(1):106–8

BIOSYNTHESIS

Carbon catabolite regulation of phenylacetyl–CoA ligase from Pseudomonas putida. Martinez–Blanco H, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):891–7

BLOOD

Primary stimuli of icosanoid release inhibit arachidonoyl–CoA synthetase and lysophospholipid acyltransferase. Mechanism of action of hydrogen peroxide and methyl mercury in platelets. Hornberger W, et al. **Eur J Biochem** 1990 Jan 12;187(1):175–81

GENETICS

Intrinsic fluorescence of succinyl–CoA synthetase and four tryptophan mutants. Tryptophan 76 and tryptophan 248 of the beta–subunit are responsive to CoA binding. Nishimura JS, et al. **Biochemistry** 1990 Jan 30;29(4):862–5
Cloning and nucleotide sequences of the mdh and sucD genes from Thermus aquaticus B. Nicholls DJ, et al. **FEMS Microbiol Lett** 1990 Jun 15;58(1):7–14
Structure and regulation of rat long–chain acyl–CoA synthetase. Suzuki H, et al. **J Biol Chem** 1990 May 25; 265(15):8681–5
Comparison and cross–species expression of the acetyl–CoA synthetase genes of the Ascomycete fungi, Aspergillus nidulans and Neurospora crassa. Connerton IF, et al. **Mol Microbiol** 1990 Mar;4(3):451–60

ISOLATION & PURIFICATION

Purification and properties of acetyl–CoA synthetase from Bradyrhizobium japonicum bacteroids. Preston GG, et al. **Biochem J** 1990 Apr 1;267(1):179–83
Isolation and characterization of acetyl–coenzyme A synthetase from Methanothrix soehngenii. Jetten MS, et al. **J Bacteriol** 1989 Oct;171(10):5430–5
Purification and biochemical characterization of phenylacetyl–CoA ligase from Pseudomonas putida. A specific enzyme for the catabolism of phenylacetic acid. Martínez–Blanco H, et al. **J Biol Chem** 1990 Apr 25; 265(12):7084–90

METABOLISM

Mitochondrial translocation and processing of the precursor to the alpha–subunit of rat liver succinyl–CoA synthetase. Majumdar R, et al. **Biochem Cell Biol** 1990 Jan;68(1):292–9
Effect of clofibrate on peroxisomal lignoceroyl–CoA ligase activity. Yoshida Y, et al. **Biochem Med Metab Biol** 1990 Feb;43(1):22–9
Regulation of eicosanoid synthesis in microvessel endothelium: glucocorticoids do not affect arachidonyl CoA synthetase activity. Gerritsen ME, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):174–9
Purification and characterization of the enzymes of bile acid conjugation from fish liver. Vessey DA, et al. **Comp Biochem Physiol [B]** 1990;95(4):647–52
Transverse–plane topography of long–chain acyl–CoA synthetase in the mitochondrial outer membrane. Hesler CB, et al. **J Biol Chem** 1990 Apr 25;265(12):6600–5
Cellular oxidation of lignoceric acid is regulated by the subcellular localization of lignoceroyl–CoA ligases. Lazo O, et al. **J Lipid Res** 1990 Apr;31(4):583–95
In vitro study of docosahexaenoic acid incorporation into phosphatidylcholine by enzymes of rat heart. Bouroudian M, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):119–28
Phorbol ester induces inhibition of arachidonate incorporation into phospholipids in human neutrophils. Yamazaki H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):51–5

COENZYME A–TRANSFERASES

ANALYSIS

Regulation of succinyl coenzyme A:acetoacetyl coenzyme A transferase in rat hepatoma cell lines. Zhang WW, et al. **Cancer Res** 1990 Sep 15;50(18):5858–62

GENETICS

Cloning and expression of Clostridium acetobutylicum ATCC 824 acetoacetyl–coenzyme A:acetate/butyrate:coenzyme A–transferase in Escherichia coli. Cary JW, et al. **Appl Environ Microbiol** 1990 Jun; 56(6):1576–83

ISOLATION & PURIFICATION

Purification and characterization of formyl–coenzyme A transferase from Oxalobacter formigenes. Baetz AL, et al. **J Bacteriol** 1990 Jul;172(7):3537–40

METABOLISM

Further purification and characterization of the succinyl–CoA:3–hydroxy–3–methylglutarate coenzyme A transferase from rat–liver mitochondria. Francesconi MA, et al. **Biochim Biophys Acta** 1989 Nov 30;999(2):163–70
Glutathione–dependent and ketone body–related enzymes in the selenium–deficient rat. Olsson U. **Int J Vitam Nutr Res** 1990;60(1):89–94

COENZYME Q see UBIQUINONE

COENZYMES

Cobalamin as coenzyme: a twisting trail of research. Beck WS. **Am J Hematol** 1990 Jun;34(2):83–9 (63 ref.)
Coenzyme reorientations in the active sites of vitamin B6–dependent enzymes. Torchinsky YuM, et al. **Ann N Y Acad Sci** 1990;585:68–75 (30 ref.)
The cofactor pyrroloquinoline quinone. Duine JA, et al. **Annu Rev Nutr** 1990;10:297–318 (82 ref.)
Interaction of glyceraldehyde–3–phosphate dehydrogenase with AMP as studied by means of a spin–labeled analog. Karim C, et al. **Biol Chem Hoppe Seyler** 1989 Dec; 370(12):1245–52

ANALYSIS

Interaction between pyridine nucleotide coenzymes and heme proteins as a possible source of error in assay of activities of coenzyme–linked enzyme [see comments] Jeyasingham MD, et al. **Clin Chem** 1989 Oct;35(10):2129–33 Comment in: Clin Chem 1990 Feb;36(2):409.
Evidence that 31P NMR is a sensitive indicator of small conformational changes in the coenzyme of aspartate aminotransferase. Schnackerz KD, et al. **Eur J Biochem** 1989 Nov 20;185(3):525–31
The redox–cycling assay is not suited for the detection of pyrroloquinoline quinone in biological samples [see comments] van der Meer RA, et al. **FEBS Lett** 1990 Feb 12;261(1):131–4 Comment in: FEBS Lett 1990 May 21;264(2):283–4.
PQQ, the elusive coenzyme [see comments] Gallop PM, et al. **Trends Biochem Sci** 1989 Aug;14(8):343–6 (28 ref.) Comment in: Trends Biochem Sci 1990 Mar;15(3):96–7.
[Study of coenzyme reorientation in the active center of tryptophanase by linear dichroism method] Zakomyrdina LN, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1596–602 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Changes in serum copper and zinc during treatment with anticancer drugs interfering with pyridoxal phosphate. Slavik M, et al. **Adv Exp Med Biol** 1989;258:235–42

BIOSYNTHESIS

Paraquat toxicity and pyridine nucleotide coenzyme synthesis: a data correction. Brown OR, et al. **Free Radic Biol Med** 1990;8(2):113–6

GENETICS

Homologous transformation of Cephalosporium acremonium with the nitrate reductase–encoding gene (niaD). Whitehead MP, et al. **Gene** 1990 Jun 15;90(2):193–8

METABOLISM

Folate coenzyme and antifolate transport proteins in normal and neoplastic cells. Freisheim JH, et al. **Adv Enzyme Regul** 1989;29:13–26
Unusual coenzymes of methanogenesis. DiMarco AA, et al. **Annu Rev Biochem** 1990;59:355–94 (202 ref.)
Conformations of the coenzymes and the allosteric activator, ADP, bound to NAD(+)–dependent isocitrate dehydrogenase from pig heart. Ehrlich RS, et al. **Biochemistry** 1990 May 29;29(21):5179–87
Studies of the phosphorylation of Escherichia coli isocitrate dehydrogenase. Recognition of the enzyme by isocitrate dehydrogenase kinase/phosphatase and effects of phosphorylation on its structure and properties. McKee JS, et al. **Biochimie** 1989 Sep–Oct;71(9–10):1059–64
Biogenesis of molybdenum cofactors. Hinton SM, et al. **Crit Rev Microbiol** 1990;17(3):169–88 (131 ref.)
Reduction of aryl–nitroso compounds by pyridine and flavin coenzymes. Leskovac V, et al. **Int J Biochem** 1989; 21(8):825–34
Molybdopterin guanine dinucleotide: a modified form of molybdopterin identified in the molybdenum cofactor of dimethyl sulfoxide reductase from Rhodobacter sphaeroides forma specialis denitrificans. Johnson JL, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3190–4
Pyrroloquinoline quinone: a novel cofactor. Duine JA, et al. **Vitam Horm** 1989;45:223–62 (105 ref.)

PHARMACOLOGY

[The effect of functionally bound vitamins and their coenzyme forms on the activity of 2–oxoacid dehydrogenases in mouse organs] Karpov LM, et al. **Ukr Biokhim Zh** 1989 Jul–Aug;61(4):82–7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Methoxatin (PQQ), coenzyme for copper-dependent amine and mixed-function oxidation in mammalian tissues. Paz MA, et al. **Connect Tissue Res** 1989;20(1-4):251-7 (10 ref.)

THERAPEUTIC USE

[Comparative characteristics of the arrhythmic syndrome and the possibility for its coenzyme correction in dilated and hypertrophic cardiomyopathy] Kubyshkin VF, et al. **Ter Arkh** 1989;61(9):82-5 (Eng. Abstr.) **(Rus)**

COERCION

Some conditions of compliance and resistance among hypnotic subjects. Levitt EE, et al. **Am J Clin Hypn** 1990 Apr;32(4):225-36; discussion 237-49

Psychological and psychiatric aspects of a coerced-internalized false confession. Gudjonsson GH, et al. **J Forensic Sci Soc** 1989 Jul-Aug;29(4):261-9

Coercive sexual behavior among Mexican-American college students. Kiernan JE, et al. **J Sex Marital Ther** 1990 Spring; 16(1):44-50

Rebels with a cause [editorial] **Lancet** 1990 Mar 24; 335(8691):694-5

Conscience and complicity [editorial] **Lancet** 1990 Sep 22; 336(8717):720

Consent, compulsion and confidentiality in relation to testing for HIV infection: the views of WA doctors. Grove DI, et al. **Med J Aust** 1990 Feb 19;152(4):174-8

[Patient advisors and coercion in psychiatry. The situation 3 months after the introduction of the Act on restriction of liberty and other coercive measures in psychiatry] Andersen BB, et al. **Ugeskr Laeger** 1990 Aug 6; 152(32):2292-4 (Eng. Abstr.) **(Dan)**

COFFEA see COFFEE

COFFEE

see related CAFFEINE

Does coffee consumption protect against thyroid disease? Linos A, et al. **Acta Chir Scand** 1989 Jun-Jul; 155(6-7):317-20

Heritability of substance use in the NAS-NRC Twin Registry. Carmelli D, et al. **Acta Genet Med Gemellol (Roma)** 1990;39(1):91-8

Inhibitory effects of chlorogenic acid, reserpine, polyprenoic acid (E-5166), or coffee on hepatocarcinogenesis in rats and hamsters. Tanaka T, et al. **Basic Life Sci** 1990;52:429-40

Coffee drinking and prevalence of bronchial asthma [letter; comment] Annesi I, et al. **Chest** 1990 May;97(5):1268-9 Comment on: Chest 1988 Aug;94(2):386-9.

How to give up smoking by drinking coffee [letter] Lima DR, et al. **Chest** 1990 Jan;97(1):254

Dose-dependency of caffeine metabolism with repeated dosing. Denaro CP, et al. **Clin Pharmacol Ther** 1990 Sep; 48(3):277-85

Coffee, blood pressure and plasma lipids: a randomized controlled trial. Burr ML, et al. **Eur J Clin Nutr** 1989 Jul; 43(7):477-83 (37 ref.)

Effect of cigarette smoking and coffee consumption on apolipoprotein B levels. Periti M, et al. **Eur J Epidemiol** 1990 Mar;6(1):76-9

Inhibition of in vivo genotoxicity by coffee. Abraham SK. **Food Chem Toxicol** 1989 Dec;27(12):787-92

Effect of coffee on distal colon function. Brown SR, et al. **Gut** 1990 Apr;31(4):450-3

Effect of decaffeinated versus regular coffee on blood pressure. A 12-week, double-blind trial. van Dusseldorp M, et al. **Hypertension** 1989 Nov;14(5):563-9

Coffee consumption and blood pressure: a randomized, crossover clinical trial. Rosmarin PC, et al. **J Gen Intern Med** 1990 May-Jun;5(3):211-3

Association between habitual coffee consumption and blood pressure levels. Salvaggio A, et al. **J Hypertens** 1990 Jun; 8(6):585-90

Drinking coffee and carbonated beverages blocks absorption of nicotine from nicotine polacrilex gum. Henningfield JE, et al. **JAMA** 1990 Sep 26;264(12):1560-4

Effect of a lipid-rich fraction from boiled coffee on serum cholesterol. Zock PL, et al. **Lancet** 1990 May 26; 335(8700):1235-7

Physical dependence on and toxicity from caffeine. Hughes JR, et al. **NIDA Res Monogr** 1989;95:437

Influence of coffee on fluoride metabolism in rats. Chan JT, et al. **Proc Soc Exp Biol Med** 1990 May;194(1):43-7

Influence of tea and coffee beverages on prostacyclin synthesis by the rat aorta. el Tahir KE, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):63-6

Blood pressure response to the "second cup of coffee". Goldstein IB, et al. **Psychosom Med** 1990 May-Jun; 52(3):337-45

[Pica caused by the ingestion of coffee beans (letter)] Flores A, et al. **Sangre (Barc)** 1990 Feb;35(1):85-6 **(Spa)**

ADVERSE EFFECTS

Bean hypersensitivity in coffee workers' asthma: a clinical and immunological appraisal. Lehrer SB. **Allergy Proc** 1990 Mar-Apr;11(2):65-6

Coffee stimulation of cholecystokinin release and gallbladder contraction in humans. Douglas BR, et al. **Am J Clin Nutr** 1990 Sep;52(3):553-6

Coffee use prior to myocardial infarction restudied: heavier intake may increase the risk. Klatsky AL, et al. **Am J Epidemiol** 1990 Sep;132(3):479-88

The risks of cancers of the colon and rectum in relation to coffee consumption. Rosenberg L, et al. **Am J Epidemiol** 1989 Nov;130(5):895-903

Coffee consumption and serum lipids: a randomized, crossover clinical trial. Rosmarin PC, et al. **Am J Med** 1990 Apr;88(4):349-56

Coffee consumption as trigger for diabetes in childhood [letter; comment] **BMJ** 1990 Apr 14;300(6730):1012 Comment on: BMJ 1990 Mar 10;300(6725):642-3.

Coffee consumption as trigger for insulin dependent diabetes mellitus in childhood [see comments] Tuomilehto J, et al. **BMJ** 1990 Mar 10;300(6725):642-3 Comment in: BMJ 1990 Apr 14;300(6730):1012.

Coffee consumption and death from coronary heart disease in middle aged Norwegian men and women. Tverdal A, et al. **BMJ** 1990 Mar 3;300(6724):566-9

Headache caused by caffeine withdrawal among moderate coffee drinkers switched from ordinary to decaffeinated coffee: a 12 week double blind trial. van Dusseldorp M, et al. **BMJ** 1990 Jun 16;300(6739):1558-9

Coffee consumption and the risk of breast cancer. A prospective study of 14,593 Norwegian women. Vatten LJ, et al. **Br J Cancer** 1990 Aug;62(2):267-70

Coffee, caffeine, cholesterol, cardiologists and confusion [editorial; comment] Beamish RE. **Can J Cardiol** 1990 Apr; 6(3):93-4 Comment on: Can J Cardiol 1990 Apr;6(3):95-8.

High dose caffeine and ventricular arrhythmias [see comments] Myers MG, et al. **Can J Cardiol** 1990 Apr; 6(3):95-8 Comment in: Can J Cardiol 1990 Apr;6(3):93-4.

Coffee and tea consumption in relation to the risk of large bowel cancer: a review of epidemiologic studies. Rosenberg L. **Cancer Lett** 1990 Jul 31;52(3):163-71 (46 ref.)

LE-like erythema and periungual telangiectasia among coffee plantation workers. Narahari SR, et al. **Contact Dermatitis** 1990 May;22(5):296-7

Cardiovascular reactivity, mood, and task performance in deprived and nondeprived coffee drinkers. Ratliff-Crain J, et al. **Health Psychol** 1989;8(4):427-47

Risk of pancreatic cancer in relation to medical history and the use of tobacco, alcohol and coffee. Farrow DC, et al. **Int J Cancer** 1990 May 15;45(5):816-20

Abstinence from coffee leads to a fall in blood pressure. Bak AA, et al. **J Hypertens Suppl** 1989 Dec;7(6):S260-1

Coffee and delayed conception [letter] Williams MA, et al. **Lancet** 1990 Jun 30;335(8705):1603

The effect on serum cholesterol levels of coffee brewed by filtering or boiling. Bak AA, et al. **N Engl J Med** 1989 Nov 23;321(21):1432-7

Coffee and coronary heart disease: a review. Rosmarin PC. **Prog Cardiovasc Dis** 1989 Nov-Dec;32(3):239-45 (59 ref.)

Coffee drinking in patients with duodenal ulcer and a control population. Eisig JN, et al. **Scand J Gastroenterol** 1989 Sep; 24(7):796-8

[Coffee and serum cholesterol] Strubelt O. **Dtsch Med Wochenschr** 1990 Mar 23;115(12):479 **(Ger)**

[Influence of coffee on plasma lipids] Finocchiaro C, et al. **Minerva Dietol Gastroenterol** 1989 Oct-Dec;35(4):273-6 (Eng. Abstr.) **(Ita)**

[Specific bronchial reactivity in unripe coffee processing workers] Zuškin E, et al. **Arh Hig Rada Toksikol** 1989 Mar; 40(1):3-8 (Eng. Abstr.) **(Scr)**

[Smoking, consumption of alcoholic beverages and coffee as factors associated with the development of cancer of the pancreas] Pfeffer F, et al. **Rev Invest Clin** 1989 Jul-Sep; 41(3):205-8 (Eng. Abstr.) **(Spa)**

ANALYSIS

Analysis of hydrogen peroxide in freshly prepared coffees. Rinkus SJ, et al. **Food Chem Toxicol** 1990 May;28(5):323-31

EPR detection of free radicals in (I) coffee and (II) gamma-ray irradiated foodstuffs. Troup GJ, et al. **Int J Rad Appl Instrum [A]** 1989;40(10-12):1223-6

Caffeine as main interfering compound in radioimmunoassay of aflatoxin B1 in coffee samples. Rauch P, et al. **J Assoc Off Anal Chem** 1989 Nov-Dec;72(6):1015-7

Mass spectrometric confirmation of the presence of N-nitrosopyrrolidine in instant coffee. Sen NP, et al. **J Assoc Off Anal Chem** 1990 Mar-Apr;73(2):325-7

PHYSIOLOGY

A randomized study on coffee and blood pressure. Bak AA, et al. **J Hum Hypertens** 1990 Jun;4(3):259-64

STANDARDS

Quality assessment of coffee beans with ESR and gamma-ray irradiation. Ikeya M, et al. **Int J Rad Appl Instrum [A]** 1989;40(10-12):1219-22

TOXICITY

Coffee and the immune system. Melamed I, et al. **Int J Immunopharmacol** 1990;12(1):129-34

Cytogenetic response to coffee in Chinese hamster ovary AUXB1 cells and human peripheral lymphocytes. Tucker JD, et al. **Mutagenesis** 1989 Sep;4(5):343-8

[Effect of untreated and non-irritating purified coffee and carbonic acid hydroxytryptamides on the gastric mucosa in the rat] Fehlau R, et al. **Z Gastroenterol** 1990 May; 28(5):234-8 (Eng. Abstr.) **(Ger)**

COFORMYCIN

PHARMACOLOGY

Inhibition of the zymosan-induced chemiluminescence of human phagocytes by adenosine, polyadenylic acid and agents influencing adenosine metabolism. Sipka S, et al. **Allergol Immunopathol (Madr)** 1989 Jul-Aug;17(4):209-12

COGNITION

Teaching old dogs new tricks: using cognitive feedback to improve physicians' diagnostic judgments on simulated cases. Wigton RS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S5-6

Sensory-motor and cognitive functioning in children who have undergone bone marrow transplantation. Smedler AC, et al. **Acta Paediatr Scand** 1990 Jun-Jul;79(6-7):613-21

Cognition and mood in relation to the performance of squash tasks. Kerr JH, et al. **Acta Psychol (Amst)** 1990 Mar; 73(2):103-14

Validity, reliability, and factor structure of the Anorectic Cognitions Questionnaire. Mizes JS, et al. **Addict Behav** 1989;14(5):589-94

Social influences on children's cognition: state of the art and future directions. Azmitia M, et al. **Adv Child Dev Behav** 1989;22:89-144 (185 ref.)

The effect of terminology on public consciousness related to the HIV epidemic. Gayle JA. **AIDS Educ Prev** 1989 Fall;1(3):247-50

Cognitive test profile analysis for the identification of dementia of the Alzheimer type. Christensen KJ, et al. **Alzheimer Dis Assoc Disord** 1990 Summer;4(2):96-109

Individual differences in cognitive skills related to reading ability in the deaf. Gibbs KW. **Am Ann Deaf** 1989 Jul; 134(3):214-8

Recombinant human erythropoietin treatment may improve quality of life and cognitive function in chronic hemodialysis patients. Wolcott DL, et al. **Am J Kidney Dis** 1989 Dec;14(6):478-85

Subjective awareness of abnormal involuntary movements in chronic schizophrenic patients. Caracci G, et al. **Am J Psychiatry** 1990 Mar;147(3):295-8

Parents' awareness of children's suicide attempts. Walker M, et al. **Am J Psychiatry** 1990 Oct;147(10):1364-6

Cognitive development, types of logic, and psychoanalytic theory. van den Daele L. **Am J Psychoanal** 1989 Dec; 49(4):281-95 (48 ref.)

On the formation and regulation of anger and aggression. A cognitive-neoassociationistic analysis. Berkowitz L. **Am Psychol** 1990 Apr;45(4):494-503 (39 ref.)

Dynamic operations of thought systems. McGuire WJ. **Am Psychol** 1990 Apr;45(4):504-12

Awake blind nasal intubation: use of a simple whistle [letter] Dyson A, et al. **Anaesthesia** 1990 Jan;45(1):71-2

Awareness and pain during surgery [letter] Henshaw JS. **Anaesthesia** 1990 Jun;45(6):491-2

Isolated forearm technique [letter] Russell IF. **Anaesthesia** 1990 Aug;45(8):687-8

Awareness, caesarean section and the isolated forearm technique [letter] Tunstall ME. **Anaesthesia** 1990 Aug; 45(8):686

Reasoning. Rips LJ. **Annu Rev Psychol** 1990;41:321-53 (290 ref.)

Effects of food snacks on cognitive performance in male college students. Kanarek RB, et al. **Appetite** 1990 Feb; 14(1):15-27

Decline in head growth and cognitive impairment in survivors of acute lymphoblastic leukaemia. Appleton RE, et al. **Arch Dis Child** 1990 May;65(5):530-4

Electrophysiologic comparisons between two groups of patients with Alzheimer's disease. Albert MS, et al. **Arch Neurol** 1990 Aug;47(8):857-63

Regional cerebral blood flow and cognitive function in Huntington's disease and schizophrenia. A comparison of patients matched for performance on a prefrontal-type task. Goldberg TE, et al. **Arch Neurol** 1990 Apr;47(4):418-22

Long-term cognitive sequelae of acyclovir-treated herpes simplex encephalitis. Gordon B, et al. **Arch Neurol** 1990 Jun;47(6):646-7

Cognition and white matter changes on magnetic resonance imaging in dementia. Kertesz A, et al. **Arch Neurol** 1990 Apr;47(4):387-91

Magnetic resonance imaging findings in HIV cognitive impairment. Kieburtz KD, et al. **Arch Neurol** 1990 Jun; 47(6):643-5

Reliability of clinical nurse specialists in the staging of dementia. McCulla MM, et al. **Arch Neurol** 1989 Nov; 46(11):1210-1

Heritability of cognitive performance in aging twins. The National Heart, Lung, and Blood Institute Twin Study. Swan GE, et al. **Arch Neurol** 1990 Mar;47(3):259-62

Cognition in early human immunodeficiency virus infection. Wilkie FL, et al. **Arch Neurol** 1990 Apr;47(4):433-40

Twin resemblances in cognitive abilities in an Egyptian sample. Abdel-Rahim AR, et al. **Behav Genet** 1990 Jan; 20(1):33-43

Awareness of the CS–UCS contingency and classical conditioning of skin conductance responses with olfactory CSs. Marinkovic K, et al. **Biol Psychol** 1989 Aug; 29(1):39–60

Cognitive and functional competence after anaesthesia in patients aged over 60: controlled trial of general and regional anaesthesia for elective hip or knee replacement. Jones MJ, et al. **BMJ** 1990 Jun 30;300(6741):1683–7

May preclinical markers of brain infection by HIV be detected? A cognitive, CSF and neuroradiological investigation. Franciolini B, et al. **Boll Soc Ital Biol Sper** 1989 Oct;65(10):983–8

The effects of imminent minor surgery on the cognitive processing of health and interpersonal threat words. Cook JA, et al. **Br J Clin Psychol** 1989 Sep;28 (Pt 3):281–2

Prediction of survival in dementia by cognitive tests: a six–year follow–up. Gamsu CV, et al. **Br J Clin Psychol** 1990 Feb;29 (Pt 1):99–104

Language–impaired children's comprehension of active versus passive sentences. Precious A, et al. **Br J Disord Commun** 1988 Dec;23(3):229–43

Children's use of counting and guidelines in judging relative number. Cowan R, et al. **Br J Educ Psychol** 1989 Jun;59 (Pt 2):200–10

Content specific information processing and persecutory delusions: an investigation using the emotional Stroop test. Bentall RP, et al. **Br J Med Psychol** 1989 Dec;62 (Pt 4):355–64

Cognitive processing and its relationship to symptoms and social functioning in schizophrenia. Allen H. **Br J Psychiatry** 1990 Feb;156:201–3

Cognitive aspects of panic attacks. Content, course and relationship to laboratory stressors. Zucker D, et al. **Br J Psychiatry** 1989 Jul;155:86–91

Probability mapping: power and coherence analyses of cognitive processes. Rappelsberger P, et al. **Brain Topogr** 1988 Fall;1(1):46–54

Activity in cortical–like neural systems: short–range effects and attention phenomena. Ventriglia F. **Bull Math Biol** 1990;52(3):397–429

Patients' perceived knowledge and learning needs concerning radiation therapy. Campbell–Forsyth L. **Cancer Nurs** 1990 Apr;13(2):81–9

Theory and research in practice: an opportunity group for young children with developmental difficulties. Campion J, et al. **Child Care Health Dev** 1989 Sep–Oct;15(5):343–61

The relation between resource limitations and optional conceptual processing by children and adults. Ackerman BP, et al. **Child Dev** 1989 Oct;60(5):1200–11

Concept availability in the causal inferences of children and adults. Ackerman BP, et al. **Child Dev** 1990 Feb; 61(1):230–46

Developmental changes in children's awareness of strategies for coping with uncontrollable stress. Altshuler JL, et al. **Child Dev** 1989 Dec;60(6):1337–49

The development of text evaluation and revision skills. Beal CR. **Child Dev** 1990 Feb;61(1):247–58

Children's agency beliefs, cognitive performance, and conceptions of effort and ability: individual and developmental differences. Chapman M, et al. **Child Dev** 1989 Oct;60(5):1229–38

Young children's causal inferences. Das Gupta P, et al. **Child Dev** 1989 Oct;60(5):1138–46

Young children's understanding of counting and cardinality. Frye D, et al. **Child Dev** 1989 Oct;60(5):1158–71

Heider's foreseeability level of responsibility attribution: does it come after intentionality? Hook JG. **Child Dev** 1989 Oct; 60(5):1212–7

Cognitive–motivational influences on the task–related help–seeking behavior of black children. Nelson–Le Gall S, et al. **Child Dev** 1990 Apr;61(2):581–9

Adolescents' and parents' reasoning about actual family conflict. Smetana JG. **Child Dev** 1989 Oct;60(5):1052–67

Children's conceptualization of their own psychiatric illness and hospitalization. Szajnberg NM, et al. **Child Psychiatry Hum Dev** 1989 Winter;20(2):87–97

Strengths and weaknesses in the cognitive profile of fra(X) patients. Curfs LM, et al. **Clin Genet** 1989 Dec;36(6):405–10

A new approach to the measurement of cognitive deficits in dementia. Christensen KJ. **Clin Geriatr Med** 1989 Aug; 5(3):519–30 (14 ref.)

The use of the Halstead–Reitan test battery with older adults. Cullum CM, et al. **Clin Geriatr Med** 1989 Aug;5(3):595–610 (50 ref.)

Cognitive mental status examinations. Schmitt FA, et al. **Clin Geriatr Med** 1989 Aug;5(3):545–64 (55 ref.)

Assessment of mood, affect, and personality. Van Gorp WG, et al. **Clin Geriatr Med** 1989 Aug;5(3):441–59 (48 ref.)

Relationship between hyperglycemia and cognitive function in older NIDDM patients. Reaven GM, et al. **Diabetes Care** 1990 Jan;13(1):16–21

Symptomatic awareness of hypoglycaemia: does it change on transfer from animal to human insulin? [letter; comment] Egger M, et al. **Diabetic Med** 1990 Mar–Apr;7(3):269–70 Comment on: Diabetic Med 1989 Sep–Oct;6(7):586–90.

Alcohol causes hypoglycaemic unawareness in healthy volunteers and patients with type 1 (insulin–dependent) diabetes. Kerr D, et al. **Diabetologia** 1990 Apr;33(4):216–21

Some thoughts on the production and utilization of knowledge. **Epidemiol Bull** 1988;9(3):10–1

Visual cognitive disturbance during spike–wave discharges. Sengoku A, et al. **Epilepsia** 1990 Jan–Feb;31(1):47–50

Generation and elaboration in older adults. Hashtroudi S, et al. **Exp Aging Res** 1989 Spring–Summer;15(1–2):73–8

Performance in relation to age and educational level: a monumental research. Pacaud S. **Exp Aging Res** 1989 Autumn–Winter;15(3–4):123–36

The person's conception of the structures of developing intellect: early adolescence to middle age. Demetriou A, et al. **Genet Soc Gen Psychol Monogr** 1989 Aug; 115(3):371–423

Cognitive correlates of headache intensity and duration. Demjen S, et al. **Headache** 1990 Jun;30(7):423–7

Migraine patients cognitively impaired? Leijdekkers ML, et al. **Headache** 1990 May;30(6):352–8

The evolution of challenges to researchers in health psychology. Evans RI. **Health Psychol** 1989;8(6):631–9 (33 ref.)

Negative and positive cognition in depressed and nondepressed chronic–pain patients. Ingram RE, et al. **Health Psychol** 1990;9(3):300–14

Cognition and connectionism. Kassirer JP, et al. **Hosp Pract [Off]** 1990 Feb 15;25(2):15, 23–6

Curve of perceptive intellectual deterioration in hemodialysis patients. Ventura MC, et al. **Int J Artif Organs** 1990 Feb; 13(2):87–92

The role of imagery in hypnosis: an information processing approach. Heyneman NE. **Int J Clin Exp Hypn** 1990 Jan; 38(1):39–59

The effect of subject expectations of "hypnosis" upon vividness of visual imagery. Nilsson KM. **Int J Clin Exp Hypn** 1990 Jan;38(1):17–24

Hypnotizability and the modification of cognitive search strategies. Wallace B. **Int J Clin Exp Hypn** 1990 Jan; 38(1):60–9

Medical illness and the acceptance of suffering. Bates A, et al. **Int J Psychiatry Med** 1989;19(3):269–80 (32 ref.)

Negative hallucinations, other irretrievable experiences and two functions of consciousness. Brakel LW. **Int J Psychoanal** 1989;70 (Pt 3):461–79

A cognitive perspective on object relations, drive development and ego structure in the second and third years of life. Posener JA. **Int J Psychoanal** 1989;70 (Pt 4):627–43

Primitive personality organization as an interpersonally adaptive modification of cognition and affect. Robbins M. **Int J Psychoanal** 1989;70 (Pt 3):443–59

Pupils' knowledge of mental handicap: a study of second year pupils in a British comprehensive school. Quicke JC. **Int J Rehabil Res** 1989;12(1):17–26

Contributions of cognitive science and educational technology to training in radiology. Rubin A. **Invest Radiol** 1989 Sep;24(9):729–32

A prospective study of cognitive and noncognitive selection criteria as predictors of resident performance [see comments] Wood PS, et al. **Invest Radiol** 1990 Jul; 25(7):855–9 Comment in: Invest Radiol 1990 Jul;25(7):761–2.

Childhood depression: a family perspective. Teichman Y. **Isr J Psychiatry Relat Sci** 1989;26(1–2):46–57

Hypnotic blindness, awareness, and attribution. Bryant RA, et al. **J Abnorm Psychol** 1989 Nov;98(4):443–7

Strategies for resolving the heterogeneity of schizophrenics and their relatives using cognitive measures. Chapman LJ, et al. **J Abnorm Psychol** 1989 Nov;98(4):357–66

Cognitive specificity and positive–negative affectivity: complementary or contradictory views on anxiety and depression? Clark DA, et al. **J Abnorm Psychol** 1990 May; 99(2):148–55

Schema congruence and depression: loss of objectivity in self– and other–inferences. Golin S. **J Abnorm Psychol** 1989 Nov;98(4):495–8

Adolescents' thoughts and feelings about AIDS in relation to cognitive maturity. Peterson CC, et al. **J Adolesc** 1990 Jun;13(2):185–7

The reflective practitioner in nursing. Powell JH. **J Adv Nurs** 1989 Oct;14(10):824–32

Nursing diagnosis: exploring the factors which may influence the reasoning process. Woolley N. **J Adv Nurs** 1990 Jan; 15(1):110–7

Asperger's syndrome and autism: neurocognitive aspects. Szatmari P, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jan;29(1):130–6

Cognitive function in patients with symptomatic dilated cardiomyopathy before and after cardiac transplantation. Schall RR, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1666–72

Adverse effects of reality orientation. Dietch JT, et al. **J Am Geriatr Soc** 1989 Oct;37(10):974–6

After reaching retirement age physical activity sustains cerebral perfusion and cognition. Rogers RL, et al. **J Am Geriatr Soc** 1990 Feb;38(2):123–8

Physician awareness of elevated cholesterol. Clearfied MB, et al. **J Am Osteopath Assoc** 1990 Feb;90(2):139–44

Contribution of concrete cognition to emotion: neutral symptoms as elicitors of worry about cancer. Easterling DV, et al. **J Appl Psychol** 1989 Oct;74(5):787–96

Are autistic children "behaviorists"? An examination of their mental–physical and appearance–reality distinctions. Baron–Cohen S. **J Autism Dev Disord** 1989 Dec; 19(4):579–600

Cognitive networking as a learning strategy. Richards J, et al. **J Biocommun** 1990;17(1):9–11

Are there›emotion perception deficits in young autistic children? Ozonoff S, et al. **J Child Psychol Psychiatry** 1990 Mar;31(3):343–61

Insight for impairment in independent living skills in Alzheimer's disease and multi–infarct dementia. DeBettignies BH, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):355–63

Cognitive differences between patients with progressive supranuclear palsy and Alzheimer's disease. Milberg W, et al. **J Clin Exp Neuropsychol** 1989 Oct;11(5):605–14

Toward a cognitive neuropsychology of awareness: implicit knowledge and anosognosia. Schacter DL. **J Clin Exp Neuropsychol** 1990 Jan;12(1):155–78 (95 ref.)

Critical importance of stimulus unawareness for the production of subliminal psychodynamic activation effects: a meta–analytic review. Bornstein RF. **J Clin Psychol** 1990 Mar;46(2):201–10

Worry changes decision making: the effect of negative thoughts on cognitive processing. Metzger RL, et al. **J Clin Psychol** 1990 Jan;46(1):78–88

Cognitive distortions and depression in psychiatrically disturbed adolescent inpatients. Thurber S, et al. **J Clin Psychol** 1990 Jan;46(1):57–60

Cognitive and behavioral correlates of depression in clinical and nonclinical populations. Wierzbicki M, et al. **J Clin Psychol** 1989 Nov;45(6):872–7

Assessment of various auditory perceptual and cognitive skills. Goldman R, et al. **J Commun Disord** 1975 Jun; 8(2):171–80 (18 ref.)

Marital distress, depression, and attributions: is the marital distress–attribution association an artifact of depression? Fincham FD, et al. **J Consult Clin Psychol** 1989 Dec; 57(6):768–71

Pretest expectancies and cognitive impairment in alcoholics. Sander AM, et al. **J Consult Clin Psychol** 1989 Dec; 57(6):705–9

Children's self–statements and adjustment to elective outpatient surgery. Brophy CJ, et al. **J Dev Behav Pediatr** 1990 Feb;11(1):13–6

Place and action in children's representations of stories. Ackerman BP, et al. **J Exp Child Psychol** 1989 Oct; 48(2):246–69

Phonological awareness and spelling in normal children and dyslexics: the case of initial consonant clusters. Bruck M, et al. **J Exp Child Psychol** 1990 Aug;50(1):156–78

Relation of knowledge and performance in boys' tennis: age and expertise. McPherson SL, et al. **J Exp Child Psychol** 1989 Oct;48(2):190–211

Developmental trends in the understanding of perceptual adaptation. Winer GA. **J Exp Child Psychol** 1989 Oct; 48(2):293–314

Depressive deficits in memory: processing initiative and resource allocation [comment] Ellis HC. **J Exp Psychol [Gen]** 1990 Mar;119(1):60–2 Comment on: J Exp Psychol [Gen] 1990 Mar;119(1):45–59.

Mental extrapolation and cognitive penetrability: reply to Ranney and proposals for evaluative criteria [comment] Finke RA, et al. **J Exp Psychol [Gen]** 1989 Dec; 118(4):403–8 Comment on: JAMA 1989 Dec;118(4):399–402.

Remembering with and without awareness in a depressed mood: evidence of deficits in initiative [see comments] Hertel PT, et al. **J Exp Psychol [Gen]** 1990 Mar; 119(1):45–59 Comment in: J Exp Psychol [Gen] 1990 Mar;119(1):60–2.

Internally represented forces may be cognitively penetrable: comment on Freyd, Pantzer, and Cheng (1988) [comment] [see comments] Ranney M. **J Exp Psychol [Gen]** 1989 Dec; 118(4):399–402 Comment on: J Exp Psychol [Gen] 1988 Dec;117(4):395–407. Comment in: J Exp Psychol [Gen] 1989 Dec;118(4):403–8.

Recognition and lexical decision without detection: unconscious perception? Merikle PM, et al. **J Exp Psychol [Hum Percept]** 1990 Aug;16(3):574–83

Implicit memory and test awareness. Bowers JS, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 May;16(3):404–16

Causality and the allocation of attention during comprehension. Fletcher CR, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 Mar;16(2):233–40

Elaborative inferencing as an active or passive process. Garrod S, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 Mar;16(2):250–7

Implicit learning of new verbal associations. Hartman M, et al. **J Exp Psychol [Learn Mem Cogn]** 1989 Nov; 15(6):1070–82

Regression analyses of repeated measures data in cognitive research. Lorch RF Jr, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 Jan;16(1):149–57

Sleep loss and cognitive performance [letter; comment] Granat P. **J Fam Pract** 1990 Jun;30(6):632 Comment on: J Fam Pract 1990 Feb;30(2):223–9.

The effects of sleep loss on cognitive performance of resident physicians [see comments] Jacques CH, et al. **J Fam Pract** 1990 Feb;30(2):223–9 Comment in: J Fam Pract 1990 Jun;30(6):632.

Bicycle safety knowledge and behavior in school age children. Kimmel SR, et al. **J Fam Pract** 1990 Jun; 30(6):677–80

The development of structural complexity in the child's concept of family: the effect of cognitive stage, sex, and intactness of family. Wedemeyer NV, et al. **J Genet Psychol** 1989 Dec;150(4):341–57

The robustness of the terminal decline phenomenon: longitudinal data from the Digit–Span Memory Test.

Johansson B, et al. **J Gerontol** 1989 Nov;44(6):P184–6
Models of aging and neuropsychological test performance decline with aging. Moehle KA, et al. **J Gerontol** 1989 Nov;44(6):P176–7
Age, self–assessed health status, and cognition. Salthouse TA, et al. **J Gerontol** 1990 Jul;45(4):P156–60
Comparison of two cognitive bedside screening instruments in nursing home residents: a factor analytic study. Zillmer EA, et al. **J Gerontol** 1990 Mar;45(2):P69–74
The effects of times of day on cognitive and visuo–motor performance efficiency. Bhattacharya SK, et al. **J Hum Ergol (Tokyo)** 1989 Jun;18(1):23–31
Cognitive match interface design, a base concept for guiding the development of user friendly computer application packages. Coll R, et al. **J Med Syst** 1989 Aug;13(4):227–35
Cognitive processes and their relationship to endogenous and reactive components of depression. Deutscher S, et al. **J Nerv Ment Dis** 1990 Jun;178(6):351–9
The relationship of memory and cognition in Parkinson's disease to lateralisation of motor symptoms [letter] Riklan M, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr; 53(4):359–60
Penetrating head injury in young adulthood exacerbates cognitive decline in later years. Corkin S, et al. **J Neurosci** 1989 Nov;9(11):3876–83
Ethical issues in redefining death. Penticuff JH. **J Neurosci Nurs** 1990 Feb;22(1):48–9
An international nursing student exchange program: an educational experience that enhanced student cognitive development. Frisch NC. **J Nurs Educ** 1990 Jan;29(1):10–2
Metacognition: implications for instruction in nursing education. Worrell PJ. **J Nurs Educ** 1990 Apr;29(4):170–5
Early assessment of sensorimotor and cognitive development in high–risk infants. Bendell–Estroff D, et al. **J Pediatr Psychol** 1989 Dec;14(4):549–57
Effectiveness of maximally different cognitive strategies and expectancy in attenuation of reported pain. Devine DP, et al. **J Pers Soc Psychol** 1990 Apr;58(4):672–8
Functional and dysfunctional impulsivity: personality and cognitive correlates. Dickman SJ. **J Pers Soc Psychol** 1990 Jan;58(1):95–102
Cognitive organization of impressions: effects of incongruency in complex representations. Hamilton DL, et al. **J Pers Soc Psychol** 1989 Dec;57(6):925–39
Interaction between affect and cognition in word perception. Kitayama S. **J Pers Soc Psychol** 1990 Feb;58(2):209–17
From self–conceptions to self–worth: on the sources and structure of global self–esteem. Pelham BW, et al. **J Pers Soc Psychol** 1989 Oct;57(4):672–80
Cognitive representation of conversations about persons. Wyer RS Jr, et al. **J Pers Soc Psychol** 1990 Feb; 58(2):218–38
The Pain Cognitions Questionnaire. Boston K, et al. **J Psychosom Res** 1990;34(1):103–9
On insight and psychosis: discussion paper. David AS. **J R Soc Med** 1990 May;83(5):325–9 (56 ref.)
Cognition and affect in evaluations of stereotyped group members. Jackson LA, et al. **J Soc Psychol** 1989 Oct; 129(5):659–72
Visual evoked potentials: relation to adult speechreading and cognitive function. Rönnberg J, et al. **J Speech Hear Res** 1989 Dec;32(4):725–35
School–age children's metalinguistic awareness of grammaticality in verb form. Sutter JC, et al. **J Speech Hear Res** 1990 Mar;33(1):84–95
The cognitive psychobiology of performance regulation. Fobes JL. **J Sports Med Phys Fitness** 1989 Jun;29(2):202–8 (68 ref.)
Relationships between multidimensional competitive state anxiety and cognitive and motor subcomponents of performance. Jones JG, et al. **J Sports Sci** 1989 Winter; 7(3):229–40
The ABCs of awareness: a multimodal approach to relapse prevention and intervention—the College Hill Medical Center program. Rioux DR, et al. **J Subst Abuse Treat** 1990;7(1):61–3
Insight [letter] Baldwin D, et al. **Lancet** 1990 Sep 29; 336(8718):817
Alcohol consumption awareness in young male drivers [letter] Myers S, et al. **Med J Aust** 1990 May 7;152(9):503
What is . . . concept mapping? Watson GR. **Med Teach** 1989; 11(3–4):265–9
The implications of cognitive psychology for computer–assisted instruction. Walsh SH. **Methods Inf Med** 1989 Nov;28(4):324–6
Cognition in Parkinson's disease [letter; comment] Braham J, et al. **Neurology** 1989 Oct;39(10):1411 Comment on: Neurology 1989 Apr;39(4):557–61.
Cognition in Parkinson's disease [letter; comment] Iwasaki Y, et al. **Neurology** 1990 Jun;40(6):1008–9 Comment on: Neurology 1989 Nov;39(11):1441–5.
HIV–1 infection: no evidence of cognitive decline during the asymptomatic stages. The Multicenter AIDS Cohort Study [see comments] Selnes OA, et al. **Neurology** 1990 Feb;40(2):204–8 Comment in: Neurology 1990 Feb;40(2):323–6.
Behavioural deficits and serotonin depletion in adult rats after transient infant nasal viral infection. Mohammed AK, et al. **Neuroscience** 1990;35(2):355–63
The development of concepts of economic and social inequality. Leahy RL. **New Dir Child Dev** 1990 Winter; (46):107–20
Mood and cognitive style in premenstrual syndrome. Rapkin AJ, et al. **Obstet Gynecol** 1989 Oct;74(4):644–9
Cognitive function in long survivors of childhood acute lymphoblastic leukemia. Schlieper AE, et al. **Pediatr Hematol Oncol** 1989;6(1):1–9
Sport expertise: the cognitive advantage. Garland DJ, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1299–1314 (78 ref.)
Ideational conditioning: bridging the cognitive–behaviourist divide. Griffiths MD, et al. **Percept Mot Skills** 1990 Feb; 70(1):123–8 (31 ref.)
Age differences in cardiovascular and cognitive performance under noise conditions. Harrison DW, et al. **Percept Mot Skills** 1989 Oct;69(2):547–54
Presleep cognitive hyperarousal and affect as factors in objective and subjective insomnia. Kuisk LA, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1219–25
Nonconscious perception, where are you? Larsen JD, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1243–50
Social–psychological environments and cognitive achievement. Randhawa BS, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1075–82
Early Greek theories of cognition: Homer to Hippocrates. Naso WB. **Pharos** 1990 Summer;53(3):23–8
Reasoning on social dilemmas varying in emotional saliency: an adult developmental perspective. Blanchard–Fields F. **Psychol Aging** 1986 Dec;1(4):325–33
Cognitive monitoring and strategy choice in younger and older adults. Brigham MC, et al. **Psychol Aging** 1988 Sep; 3(3):249–57
The role of theories of cognitive aging: comment on Salthouse. Charness N. **Psychol Aging** 1988 Mar;3(1):17–21
Memory performance awareness in younger and older adults. Devolder PA, et al. **Psychol Aging** 1990 Jun;5(2):291–303
Residual effects of cigarette smoking on cognitive performance in normal aging. Hill RD. **Psychol Aging** 1989 Jun;4(2):251–4
Speaking about feelings: conceptions of emotion across the life span. Labouvie–Vief G, et al. **Psychol Aging** 1989 Dec; 4(4):425–37
Improving aerobic capacity in healthy older adults does not necessarily lead to improved cognitive performance. Madden DJ, et al. **Psychol Aging** 1989 Sep;4(3):307–20
Cognitive and social functioning across adulthood: age or student status differences? Parks CW Jr, et al. **Psychol Aging** 1986 Sep;1(3):248–54
Utilization of path–analytic procedures to investigate the role of processing resources in cognitive aging. Salthouse TA, et al. **Psychol Aging** 1988 Jun;3(2):158–66
Investigation of student status, background variables, and feasibility of standard tasks in cognitive aging research. Salthouse TA, et al. **Psychol Aging** 1988 Mar;3(1):29–37
Initiating the formalization of theories of cognitive aging. Salthouse TA. **Psychol Aging** 1988 Mar;3(1):3–16 (59 ref.)
Structure of subjective well–being among the elderly. Stock WA, et al. **Psychol Aging** 1986 Jun;1(2):91–102
Attributions in marriage: review and critique. Bradbury TN, et al. **Psychol Bull** 1990 Jan;107(1):3–33 (150 ref.)
Self–focused attention in clinical disorders: review and a conceptual model. Ingram RE. **Psychol Bull** 1990 Mar; 107(2):156–76 (125 ref.)
Why we still use our heads instead of formulas: toward an integrative approach. Kleinmuntz B. **Psychol Bull** 1990 May;107(3):296–310 (260 ref.)
The Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE): socio–demographic correlates, reliability, validity and some norms. Jorm AF, et al. **Psychol Med** 1989 Nov;19(4):1015–22
The naturalistic fallacy: moral inferences drawn from research with children versus adults. Kierniesky NC, et al. **Psychol Rep** 1989 Oct;65(2):475–9
Cognitive style and alcoholics: a comment on Robertson, et al. Kirton M. **Psychol Rep** 1989 Oct;65(2):456–8
Relationship of therapists' sex, sex–role, and age to awareness of the salience of gender–related concepts in analogue research: a preliminary finding regarding distribution of therapists by sex–role. Livingston MM. **Psychol Rep** 1990 Apr;66(2):432–4
From visual sensations to the seen–now and the seen–from–here. Natsoulas T. **Psychol Res** 1989;51(3):87–92 (8 ref.)
Ordinal structure in the visual perception and cognition of smoothly curved surfaces. Todd JT, et al. **Psychol Rev** 1989 Oct;96(4):643–57
Processing strategies in a phoneme deletion task. Stuart M. **Q J Exp Psychol [A]** 1990 May;42(2):305–27
Under your calvarium. Brown University Program in Medicine 1989 commencement speech. Wachtel TJ. **R I Med J** 1990 Feb;73(2):75–7
Coping resources and selective survival in mental health of the elderly. Haug MR, et al. **Res Aging** 1989 Dec; 11(4):468–91
Neonatal measures of attention and early cognitive status. Becker PT, et al. **Res Nurs Health** 1989 Dec;12(6):381–8
Cognitive, behavioral and psychological issues in the rheumatological care of the elderly. Wegener ST. **Scand J Rheumatol Suppl** 1989;82:39–49 (50 ref.)
Mental models in narrative comprehension. Bower GH, et al. **Science** 1990 Jan 5;247(4938):44–8 (18 ref.)
Cognitive changes in patients with multiple cerebral infarcts. Babikian VL, et al. **Stroke** 1990 Jul;21(7):1013–8
[Visual pattern analysis and reasoning: Ravens' Coloured Progressive Matrices in old–age and very–old–age adults] Diesfeldt HF, et al. **Tijdschr Gerontol Geriatr** 1989 Dec 6;20(6):241–7 (Eng. Abstr.) **(Dut)**
[P 300 wave and additive or self–terminated processes in short–term image recognition] Claverie B, et al. **Neurophysiol Clin** 1989 Aug;19(4):279–89 (Eng. Abstr.) **(Fre)**
[Evoked potentials and the mode of cognitive development in boys 6 to 8 years of age presenting hyperactivity with attention deficit] Robaye P, et al. **Neurophysiol Clin** 1990 Apr;20(1):13–33 (Eng. Abstr.) **(Fre)**
[Intuition at the bedside] Hartmann F. **Med Klin** 1990 Jul 15;85(7):448–53 **(Ger)**
[Training in thinking for beginning students: a new approach to cognitive development] Klauer KJ. **Prax Kinderpsychol Kinderpsychiatr** 1990 May–Jun; 39(5):150–6 (Eng. Abstr.) **(Ger)**
[Recall of positive and negative life events. Studies of mood–inducing effect and production of texts] Abele A. **Z Exp Angew Psychol** 1990;37(2):181–207 (Eng. Abstr.) **(Ger)**
[Life style and the right to clean air in public places (RCA). Part 1. The relationship between life style and legal consciousness on smoking regulations] Hagihara A, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1073–82 (Eng. Abstr.) **(Jpn)**
[Cognitive function, cerebral blood flow and brain atrophy in olivo–ponto–cerebellar atrophy] Kobayashi S, et al. **Rinsho Shinkeigaku** 1990 Feb;30(2):157–63 (Eng. Abstr.) **(Jpn)**
[Neuro–psychological study of Alzheimer's disease—special reference to the visual recognition process analyzed by the vision analyzer] Fujii A, et al. **Seishin Shinkeigaku Zasshi** 1989;91(10):760–9 **(Jpn)**
[The effect of time for rating on a cognitive complexity scores of the Rep test] Sakamoto A, et al. **Shinrigaku Kenkyu** 1989 Dec;60(5):316–9 (Eng. Abstr.) **(Jpn)**
[Cognitive theories of depression. I. Beck's theory and the theory of susceptibility of Brown and Harris] Stach R, et al. **Psychiatr Pol** 1989 May–Jun;23(3):217–23 (16 ref.) **(Pol)**

DRUG EFFECTS

Awareness and general anaesthesia. Desiderio DP, et al. **Acta Anaesthesiol Scand Suppl** 1990;92:48–50; discussion 78
Beyond drug effects and dependent variables: the use of the Poisson–Erlang model to assess the effects of D–amphetamine on information processing. Halliday R, et al. **Acta Psychol (Amst)** 1990 Feb;73(1):35–54
Neuropsychiatric manifestations of altered thyroid state. Denicoff KD, et al. **Am J Psychiatry** 1990 Jan;147(1):94–9
Detecting awareness during general anaesthetic caesarean section. An evaluation of two methods. Bogod DG, et al. **Anaesthesia** 1990 Apr;45(4):279–84
The incidence of awareness during anaesthesia [letter; comment] Jelicic M, et al. **Anaesthesia** 1989 Dec; 44(12):1004–5 Comment on: Anaesthesia 1989 Jun;44(6):504–8.
Awareness with amnesia during total intravenous anaesthesia with propofol [letter] Rupreht J. **Anaesthesia** 1989 Dec; 44(12):1005
The word "awareness": its ambiguous and confusing use in anesthesia literature on memory [letter] Ghoneim MM, et al. **Anesthesiology** 1990 Jul;73(1):193
Memory effects of the new derivative of the p–chlorophenoxyacetic acid adafenoxate compared to the effects of some cognition–enhancing drugs in rats. Petkov VD, et al. **Arzneimittelforschung** 1989 Sep;39(9):1133–6
Anaesthetic awareness [letter] [published erratum appears in BMJ 1990 Apr 21;300(6731):1079] Lunn JN, et al. **BMJ** 1990 Apr 7;300(6729):938
Cognitive and motor deficits in the acquisition of an object retrieval/detour task in MPTP–treated monkeys. Taylor JR, et al. **Brain** 1990 Jun;113 (Pt 3):617–37
Chronic exposure to low doses of MPTP. I. Cognitive deficits in motor asymptomatic monkeys. Schneider JS, et al. **Brain Res** 1990 Jun 11;519(1–2):122–8
Intraoperative awareness due to malfunction of a Siemens 900B ventilator. Slinger PD, et al. **Can J Anaesth** 1990 Mar;37(2):258–61
Event–related potentials and cognitive functions in epileptic treated patients. van Rijckevorsel–Harmant K, et al. **Clin Electroencephalogr** 1990 Apr;21(2):67–73
Glycine adjuvant therapy to conventional neuroleptic treatment in schizophrenia: an open–label, pilot study. Rosse RB, et al. **Clin Neuropharmacol** 1989 Oct; 12(5):416–24
Patient experiences during respirator treatment [letter; comment] Willatts S, et al. **Crit Care Med** 1990 Feb; 18(2):249 Comment on: Crit Care Med 1989 Jan;17(1):22–5.
Effects of removal of phenytoin, carbamazepine, and valproate on cognitive function. Duncan JS, et al. **Epilepsia** 1990 Sep–Oct;31(5):584–91
Cognitive effects of valproate. Gallassi R, et al. **Epilepsy Res** 1990 Mar;5(2):160–4
Effects of adinazolam and diazepam, alone and in combination with ethanol, on psychomotor and cognitive performance and on autonomic nervous system reactivity in healthy volunteers. Linnoila M, et al. **Eur J Clin Pharmacol** 1990;38(4):371–7
Effects of pyridostigmine bromide on in–flight aircrew performance. Gawron VJ, et al. **Hum Factors** 1990 Feb;

32(1):79–94
Treatment of hypertension in the elderly: II. Cognitive and behavioral function. Results of a Department of Veterans Affairs Cooperative Study. Goldstein G, et al. **Hypertension** 1990 Apr;15(4):361–9
Comparison of the effect of two prazepam formulations on psychomotor and cognitive function in healthy volunteers. Girre C, et al. **Int Clin Psychopharmacol** 1990 Jan; 5(1):57–64
Relation of neuroleptic and anticholinergic medication to cognitive functions in schizophrenia. Spohn HE, et al. **J Abnorm Psychol** 1989 Nov;98(4):367–80 (109 ref.)
Does methylphenidate constrict cognitive functioning? [published erratum appears in J Am Acad Child Adolesc Psychiatry 1990 Jan;29(1):156] Solanto MV, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):897–902
Angiotensin II inhibits cortical cholinergic function: implications for cognition. Barnes JM, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):234–8
The neuropsychiatric effects of aspartame in normal volunteers. Lapierre KA, et al. **J Clin Pharmacol** 1990 May; 30(5):454–60
Cognitive function in hypertensives treated with atenolol or propranolol. Palac DM, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):310–8
The effects of moclobemide on cognition. Wesnes KA, et al. **J Neural Transm Suppl** 1989;28:91–102 (38 ref.)
Alterations in cognitive and psychological functioning after organic solvent exposure. Morrow LA, et al. **J Occup Med** 1990 May;32(5):444–50
Effects of in utero exposure to polychlorinated biphenyls and related contaminants on cognitive functioning in young children. Jacobson JL, et al. **J Pediatr** 1990 Jan; 116(1):38–45
Synthesis of valproyl-2-pyrrolidinone and its evaluation as a cognitive drug with the ability to modulate acidic amino acids in the brain. Miyazaki C, et al. **J Pharmacobiodyn** 1990 Jan;13(1):70–5
Acute alcohol intoxication and cognitive functioning. Peterson JB, et al. **J Stud Alcohol** 1990 Mar;51(2):114–22
Sensory and cognitive event related potentials in workers chronically exposed to solvents. Massioui FE, et al. **J Toxicol Clin Toxicol** 1990;28(2):203–19
Effect of vitamin and mineral supplementation on verbal and non-verbal reasoning of schoolchildren [see comments] Crombie IK, et al. **Lancet** 1990 Mar 31;335(8692):744–7 Comment in: Lancet 1990 May 12;335(8698):1158–60.
Comparative cognitive effects of anticonvulsants. Meador KJ, et al. **Neurology** 1990 Mar;40(3 Pt 1):391–4
Improvement in cognitive functioning and mood state after conversion to valproate monotherapy. Prevey ML, et al. **Neurology** 1989 Dec;39(12):1640–1
Cognitive change following MPTP exposure. Stern Y, et al. **Neurology** 1990 Feb;40(2):261–4
Comparison of sensorimotor and cognitive performance of acute schizophrenic inpatients treated with remoxipride or haloperidol. Classen W, et al. **Neuropsychobiology** 1989; 21(3):131–40
Cognitive models and cholinergic drugs. Rusted JM, et al. **Neuropsychobiology** 1989;21(1):31–6 (36 ref.)
The cognitive effects of the administration of narcotic analgesics in patients with cancer pain. Bruera E, et al. **Pain** 1989 Oct;39(1):13–6
Simultaneous modeling of the pharmacokinetic and pharmacodynamic properties of benzodiazepines. II. Triazolam. Gupta SK, et al. **Pharm Res** 1990 Jun;7(6):570–6
The effects of ondansetron, a 5-HT3 receptor antagonist, on cognition in rodents and primates. Barnes JM, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):955–62
The effects of ACE inhibitors captopril and SQ29,852 in rodent tests of cognition. Costall B, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):573–9
Effects of tetrahydrocannabinol content on marijuana smoking behavior, subjective reports, and performance. Heishman SJ, et al. **Pharmacol Biochem Behav** 1989 Sep; 34(1):173–9
Low dose tetrahydroaminoacridine (THA) improves cognitive function but does not affect brain acetylcholine in rats. Hodges H, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):291–8
Fipexide improvement of cognitive functions in rat: behavioural and neurochemical studies. Marino A, et al. **Pharmacol Res** 1990 Mar–Apr;22(2):179–87
Cognition enhancers: from animals to man. Proceedings of the Second International I.T.E.M.-Labo Symposium on Strategies in Psychopharmacology. Paris, October 12–14, 1988. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:29–100
Biochemical strategies in the search for cognition enhancers. Briley M. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:75–80 (61 ref.)
The families of cognition enhancers. Fröstl W, et al. **Pharmacopsychiatry** 1989 Oct;22 Suppl 2:54–100 (1024 ref.)
Early human trials in the assessment of cognition activators. Gamzu ER, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:44–8 (40 ref.)
Early clinical testing of cognition enhancers: prediction of efficacy. Hall ST, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:57–8; discussion 59 (8 ref.)
Problems in the search for cognition enhancers. Hollister LE. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:33–6 (9 ref.)
The development of behavioral tests to assess the effects of cognitive enhancers. Olton DS, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:65–9 (13 ref.)
The relationship between the behavioral effects of cognition-enhancing drugs and brain acetylcholine. Nootropic drugs and brain acetylcholine. Pepeu G, et al. **Pharmacopsychiatry** 1989 Oct;22 Suppl 2:116–9
Psychopharmacological strategies in the search for cognition enhancers. Sanger DJ, et al. **Pharmacopsychiatry** 1990 Feb; 23 Suppl 2:70–4 (26 ref.)
Trends in searching for new cognition enhancing drugs. Merlini L, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S61–75 (99 ref.)
Pre-clinical evaluation of cognition enhancing drugs. Schindler U. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S99–115 (51 ref.)
Cognitive enhancers: potential strategies and experimental results. Wenk GL, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S117–39 (115 ref.)
Effects of smoking context on habituation to a repeated cognitive task. Epstein LH, et al. **Psychopharmacology (Berl)** 1990;100(3):366–71
An hypothesis on the role of glucose in the mechanism of action of cognitive enhancers. Wenk GL. **Psychopharmacology (Berl)** 1989;99(4):431–8 (98 ref.)
Comparison of the effects of four cholinomimetic agents on cognition in primates following disruption by scopolamine or by lists of objects. Rupniak NM, et al. **Psychopharmacology (Berlin)** 1989;99(2):189–95
Lack of sensitive period for lead-induced behavioral impairment on a spatial delayed alternation task in monkeys. Rice DC, et al. **Toxicol Appl Pharmacol** 1990 Apr;103(2):364–73
[Effect of diazepam on cognitive and psychomotor functions in patients with neuroses in relation to various anxiety levels] Borys B. **Psychiatr Pol** 1988 Nov–Dec;22(6):438–43 (Eng. Abstr.) (Pol)
[Cognitive function in alcoholics in a double-blind study of piracetam] Buranji I, et al. **Lijec Vjesn** 1990 Mar–Apr; 112(3–4):111–4 (Eng. Abstr.) (Scr)

PHYSIOLOGY

Temporal mechanisms in the organization of brain/mind activity. Pöppel E. **Act Nerv Super (Praha)** 1990 Mar; 32(1):76–7
Somatostatin and cognitive functions: behavioral, neurochemical and molecular biology studies. Florio T, et al. **Acta Physiol Hung** 1990;75 Suppl:107–8
Longitudinal changes in cognitive performance. Arenberg D. **Adv Neurol** 1990;51:207–9
Positive justice reasoning in deaf and hearing children before and after exposure to cognitive conflict. Peterson CC, et al. **Am Ann Deaf** 1989 Oct;134(4):277–82
Social, psychological and physical factors affecting the nutritional status of elderly subjects: separating cause and effect. Goodwin JS. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1201–9; discussion 1231–5 (70 ref.)
Relationship of cognitive factors to CSF corticotropin-releasing hormone in depression. De Jong JA, et al. **Am J Psychiatry** 1990 Mar;147(3):350–2
Awareness during anaesthesia: what should the patient be told? [editorial] Aitkenhead AR. **Anaesthesia** 1990 May; 45(5):351–2
Detecting awareness during general anaesthesia [letter] Bogod DG. **Anaesthesia** 1990 Jul;45(7):590
Do insects have cognitive maps? Wehner R, et al. **Annu Rev Neurosci** 1990;13:403–14 (67 ref.)
Relation of EEG alpha background to cognitive function, brain atrophy, and cerebral metabolism in Down's syndrome. Age-specific changes. Devinsky O, et al. **Arch Neurol** 1990 Jan;47(1):58–62
Chronic infusion of GABA and saline into the nucleus basalis magnocellularis of rats: II. Cognitive impairments. Majchrzak M, et al. **Behav Brain Res** 1990 Feb 12; 37(1):45–56
Comparative effects of ibotenic acid- and quisqualic acid-induced lesions of the substantia innominata on attentional function in the rat: further implications for the role of the cholinergic neurons of the nucleus basalis in cognitive processes. Robbins TW, et al. **Behav Brain Res** 1989 Dec 1;35(3):221–40
The concept of the unconscious [editorial] Epstein AW. **Biol Psychiatry** 1990 Jun 1;27(11):1185–7
Parietal processing of affect and cognition: cerebral organization in strongly lateralized left-handed subjects. Smith BD, et al. **Biol Psychol** 1989 Aug;29(1):11–26
Self-neglect and frontal lobe dysfunction. Orrell MW, et al. **Br J Psychiatry** 1989 Jul;155:101–5
Neuronal activity in the human medial temporal lobe during recognition memory. Heit G, et al. **Brain** 1990 Aug;113 (Pt 4):1093–112
Unawareness of visual and sensorimotor defects: a hypothesis. Levine DN. **Brain Cogn** 1990 Jul;13(2):233–81
Angiotensin II inhibits acetylcholine release from human temporal cortex: implications for cognition. Barnes JM, et al. **Brain Res** 1990 Jan 22;507(2):341–3
Dynamic functional topography of cognitive tasks. Gevins A. **Brain Topogr** 1989 Fall-Winter;2(1–2):37–56
Mental illness and cognition in relation to age at puberty: a hypothesis. Saugstad LF. **Clin Genet** 1989 Sep; 36(3):156–67 (93 ref.)
Head scan appearances and cognitive function in renal failure. Baker LR, et al. **Clin Nephrol** 1989 Nov;32(5):242–8
Neuropsychological similarities in lateralized parkinsonism. Huber SJ, et al. **Cortex** 1989 Sep;25(3):461–70
Clinical utility of long latency 'cognitive' event-related potentials (P3): the pros. Goodin DS. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):2–5; discussion 1 (18 ref.)
Clinical utility of long latency 'cognitive' event-related potentials (P3): the cons. Pfefferbaum A, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):6–12; discussion 1 (23 ref.)
The influence of diving variables on perceptual and cognitive functions in professional shallow-water (abalone) divers. Williamson AM, et al. **Environ Res** 1989 Oct;50(1):93–102
On the stability with age of anagram forming. Giaquinto S. **Funct Neurol** 1989 Oct–Dec;4(4):369–73
Proximity compatibility and information display: effects of color, space, and object display on information integration. Wickens CD, et al. **Hum Factors** 1990 Feb;32(1):61–77
Hypnosis and lateralized brain functions. Edmonston WE Jr, et al. **Int J Clin Exp Hypn** 1990 Jan;38(1):70–84
Cortical DC-potentials as electrophysiological correlates of hemispheric dominance of higher cognitive functions. Altenmüller E. **Int J Neurosci** 1989 Jul;47(1–2):1–14
Effects of an overnight fluid infusion on cognitive functions in preoperative patients. Bohnen N, et al. **Int J Neurosci** 1989 Oct;48(3–4):233–41
Ultradian rhythms of right and left hemisphere function. Gordon HW, et al. **Int J Neurosci** 1989 Jul;47(1–2):57–65
Hemisphericity and its validity for education, vocation, and cognitive style. Gordon HW. **Int J Neurosci** 1989 Jul; 47(1–2):47–55
Psychophysiological micromapping of the human brain. Bechtereva NP, et al. **Int J Psychophysiol** 1989 Nov; 8(2):107–35
Cognitive versus motivational significance of the cardiac response to intense auditory stimulation. Fernández MC, et al. **Int J Psychophysiol** 1989 Sep;8(1):49–59
Eye movements and blinks: their relationship to higher cognitive processes. Fogarty C, et al. **Int J Psychophysiol** 1989 Sep;8(1):35–42
Longitudinal and cross-sectional comparisons of young children's cognitive ERPs and behavior in a picture-matching task: preliminary findings. Friedman D, et al. **Int J Psychophysiol** 1990 Apr;8(3):213–21
ERP study of the development of the holistic and analytic modes of processing between 6 and 8 years. Robaey P, et al. **Int J Psychophysiol** 1989 Nov;8(2):145–53
Auditive and cognitive factors in speech perception by elderly listeners. I: Development of test battery. van Rooij JC, et al. **J Acoust Soc Am** 1989 Oct;86(4):1294–309
Adrenergic responses to cognitive activity in a cold environment. Thomas JR, et al. **J Appl Physiol** 1990 Mar; 68(3):962–6
Changes in sensory-cognitive input: effects on cerebral blood flow. Cameron OG, et al. **J Cereb Blood Flow Metab** 1990 Jan;10(1):38–42
Longitudinally measured blood pressure, antihypertensive medication use, and cognitive performance: the Framingham Study. Farmer ME, et al. **J Clin Epidemiol** 1990;43(5):475–80
P300 and probability in children. Ladish C, et al. **J Exp Child Psychol** 1989 Oct;48(2):212–23
Cognitive deterioration in Alzheimer's disease: behavioral and health factors. Teri L, et al. **J Gerontol** 1990 Mar; 45(2):P58–63
Time estimation performance before, during, and following physical activity. Vercruyssen M, et al. **J Hum Ergol (Tokyo)** 1989 Dec;18(2):169–79
Treating hypertension in the older person: an evaluation of the association of blood pressure level and its reduction with cognitive performance. Bird AS, et al. **J Hypertens** 1990 Feb;8(2):147–52
Task-dependent field potentials in human hippocampal formation. McCarthy G, et al. **J Neurosci** 1989 Dec; 9(12):4253–68
Mild hypoglycemia associated with deterioration of mental efficiency in children with insulin-dependent diabetes mellitus. Ryan CM, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):32–8
Relapse to substance abuse: empirical findings within a cognitive-social learning approach. Annis HM. **J Psychoactive Drugs** 1990 Apr–Jun;22(2):117–24 (59 ref.)
Knowledge and strategies for processing lexical metaphor after right or left hemisphere brain damage. Tompkins CA. **J Speech Hear Res** 1990 Jun;33(2):307–16
The purpose of survival: is it cognitive development [letter; comment] Staub B. **JAMA** 1989 Nov 10;262(18):2539 Comment on: JAMA 1989 Jun 16;261(23):3439–40.
Temporary peripartal impairment in memory and attention and its possible relation to oxytocin concentration. Silber M, et al. **Life Sci** 1990;47(1):57–65
Age and fitness effects on EEG, ERPs, visual sensitivity, and cognition. Dustman RE, et al. **Neurobiol Aging** 1990 May–Jun;11(3):193–200
Structural-functional organization of thalamic deficiency. Mukhin EI. **Neurosci Behav Physiol** 1990 Jan–Feb; 20(1):46–50
Relationships between pain, cognitive activity and epidural analgesia during labor. Wuitchik M, et al. **Pain** 1990 May;

41(2):125–32
Biochemical models for cognition enhancers. Costall B, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:85–8; discussion 89 (18 ref.)
Electrophysiological models for the study of cognition enhancers. Delacour J, et al. **Pharmacopsychiatry** 1990 Feb; 23 Suppl 2:90–3 (32 ref.)
Neuronotrophic factors in cellular functional and cognitive repair of adult brain. Varon S, et al. **Pharmacopsychiatry** 1989 Oct;22 Suppl 2:120–4 (30 ref.)
Sleep, brain activation and cognition. Dujardin K, et al. **Physiol Behav** 1990 Jun;47(6):1271–8 (176 ref.)
A computational theory of the hippocampal cognitive map. O'Keefe J. **Prog Brain Res** 1990;83:301–12 (26 ref.)
Focused 'arousal and the cognitive 40-Hz event-related potentials: differential diagnosis of Alzheimer's disease. Sheer DE. **Prog Clin Biol Res** 1989;317:79–94 (38 ref.)
Differences in abstraction ability with age. Albert MS, et al. **Psychol Aging** 1990 Mar;5(1):94–100
Training effects on Raven's progressive matrices in young, middle-aged, and elderly adults. Denney NW, et al. **Psychol Aging** 1990 Mar;5(1):144–5
Adult age comparisons in the processing of event frequency information. Sanders RE, et al. **Psychol Aging** 1990 Jun; 5(2):172–7
Learning mnemonics: roles of aging and subtle cognitive impairment. Yesavage JA, et al. **Psychol Aging** 1990 Mar; 5(1):133–7
Estrogen-related variations in human spatial and articulatory-motor skills. Hampson E. **Psychoneuroendocrinology** 1990;15(2):97–111
Brain mechanisms for recognition of faces, facial expression, and gestures: neuropsychological and electroencephalographic studies in normals, brain-lesioned patients, and schizophrenics. Grüsser OJ, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990;67:165–93 (48 ref.)
"Subjective perception" [letter] Libet B. **Science** 1990 Feb 9;247(4943):727
Changes of cerebral blood flow velocity during cognitive activity [letter] Diehl RR, et al. **Stroke** 1990 Aug; 21(8):1236–7
Cognitive function in Parkinson's disease: from description to theory. Brown RG, et al. **Trends Neurosci** 1990 Jan; 13(1):21–9 (83 ref.)
Cognitive expectations, not habits, control anticipatory smooth oculomotor pursuit. Kowler E. **Vision Res** 1989; 29(9):1049–57
[Cognitive processes in unconscious patients? A brain mapping study of the P300 potential] Reuter BM, et al. **Arch Psychol (Frankf)** 1989;141(3):155–73 (Eng. Abstr.) **(Ger)**
[Impact of odor hedonics on sensory odor intensity—physiological intensity and sensory intensity] Osako M, et al. **Nippon Eiseigaku Zasshi** 1989 Dec; 44(5):1002–8 (Eng. Abstr.) **(Jpn)**
[Event-related potentials and cognitive information processing: issues on the studies of selective attention] Okita T. **Shinrigaku Kenkyu** 1989 Dec;60(5):320–35 (110 ref.) (Eng. Abstr.) **(Jpn)**
[Relation of emotional and cognitive processes in endogenous depression (results of the Rorschach test] Dragunskaia LS. **Zh Nevropatol Psikhiatr** 1990;90(4):92–5 (Eng. Abstr.) **(Rus)**
[The significance of unrecognized feedback stimuli in cognitive activity] Kostandov EA, et al. **Zh Vyssh Nerv Deiat** 1990 Jan–Feb;40(1):15–22 (Eng. Abstr.) **(Rus)**

COGNITION DISORDERS

Cognitively impaired subjects. American College of Physicians. **Ann Intern Med** 1989 Nov 15;111(10):843–8 (16 ref.)
Brain wave on the witness stand [letter] Toth EL. **Diabetes Care** 1990 Jul;13(7):817–8
Auditory memory and age-related differences in two-tone frequency discrimination: trace decay and interference. Raz N, et al. **Exp Aging Res** 1989 Spring-Summer;15(1–2):43–7
Thought disorder or allusive thinking in the relatives of schizophrenics? A response to Callahan, Madsen, Saccuzzo, and Romney. McConaghy N. **J Nerv Ment Dis** 1989 Dec; 177(12):729–34
Acquired cognitive disorders of the elderly. Odenheimer GL. **Med Clin North Am** 1989 Nov;73(6):1383–411 (78 ref.)

BLOOD

Glycemic control and neuropsychologic function during hypoglycemia in patients with insulin-dependent diabetes mellitus. Widom B, et al. **Ann Intern Med** 1990 Jun 15; 112(12):904–12
Vitamin B12 and folate status in acute geropsychiatric inpatients: affective and cognitive characteristics of a vitamin nondeficient population. Bell IR, et al. **Biol Psychiatry** 1990 Jan 15;27(2):125–37
The relationship between cognitive impairment plasma cortisol levels and HPA responsibility to dexamethasone in dementia. Gurevitch D, et al. **Prog Clin Biol Res** 1989; 317:175–87

CEREBROSPINAL FLUID

Reproducibility of monoamine metabolite measurements in human cerebrospinal fluid. Hildebrand J, et al. **Acta Neurol Scand** 1990 May;81(5):427–30

CHEMICALLY INDUCED

Drug-related cognitive impairment: current progress and recurrent problems. Morrison RL, et al. **Ann Rev Gerontol Geriatr** 1989;9:232–79 (270 ref.)
Chronic solvent abuse. 1. Cognitive sequelae. Zur J, et al. **Child Care Health Dev** 1990 Jan–Feb;16(1):1–20
[Chronic poisoning due to salicylic acid compounds: frequently not diagnosed or treated wrong] de Groen PC. **Ned Tijdschr Geneeskd** 1989 Jul 29;133(30):1481–5 **(Dut)**
[Overdose of anticholinergic agents and confusional syndrome] Choulot JJ, et al. **Ann Pediatr (Paris)** 1989 Dec; 36(10):714 (Eng. Abstr.) **(Fre)**
[Renal and neurological toxicity of acyclovir. Apropos of a case] Fischer A, et al. **Schweiz Med Wochenschr** 1990 Aug 18;120(33):1200–3 (Eng. Abstr.) **(Fre)**
[Confusion induced by the combination cimetidine-benzodiazepine; apropos of a case report] Bouden A, et al. **Tunis Med** 1990 Jan;68(1):63–4 (Eng. Abstr.) **(Fre)**
[Consciousness disorders in the aged due to therapeutic drugs] Watanabe R. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):475–9 **(Jpn)**

CLASSIFICATION

[A proposal for a new classification of mental confusion syndromes] Olivennes A. **Ann Med Psychol (Paris)** 1989 Aug;147(6):679–83; discussion 684 **(Fre)**

COMPLICATIONS

Abnormal involuntary movements and chronic schizophrenic disorders. Manschreck TC, et al. **Biol Psychiatry** 1990 Jan 15;27(2):150–8
Cognitive variables as predictors of progress in grammar: a longitudinal study of unintelligible children. Amorosa H, et al. **Folia Phoniatr (Basel)** 1990;42(2):53–9
The importance of confounding factors in the evaluation of neuropsychological changes in patients infected with human immunodeficiency virus. Wilkins JW, et al. **J Acquir Immune Defic Syndr** 1990;3(10):938–42
Dysfunctional cognitions, attributional style, and depression in bulimia. Goebel M, et al. **J Psychosom Res** 1989; 33(6):747–52
Emotional and cognitive dysfunction associated with medical disorders. vonAmmon Cavanaugh S, et al. **J Psychosom Res** 1989;33(4):505–14
Cognitive impairment and its relationship to gait rehabilitation in the elderly. Friedman PJ, et al. **N Z Med J** 1989 Nov 22;102(880):603–6
Dementia and agitation in nursing home residents: how are they related? Cohen-Mansfield J, et al. **Psychol Aging** 1990 Mar;5(1):3–8
[A case of dementia and periodic consciousness disorder (clinical conference)] **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):508–19 **(Jpn)**

DIAGNOSIS

Magnetic resonance imaging of the brain in alcoholics: cerebral atrophy, lifetime alcohol consumption, and cognitive deficits. Chick JD, et al. **Alcoholism (N Y)** 1989 Aug;13(4):512–8
Cognitive features of borderline personality disorder. Zanarini MC, et al. **Am J Psychiatry** 1990 Jan;147(1):57–63
Screening for cognitive impairment in multiple sclerosis. An evaluation of the Mini-Mental State Examination. Beatty WW, et al. **Arch Neurol** 1990 Mar;47(3):297–301
Clinical and demographic predictors of cognitive performance in multiple sclerosis. Do diagnostic type, disease duration, and disability matter? Beatty WW, et al. **Arch Neurol** 1990 Mar;47(3):305–8
Cognitive deficits and emotional dysfunction in multiple sclerosis [editorial] Herndon RM. **Arch Neurol** 1990 Jan; 47(1):18
Synopsis of the many phases of H.I.V. infection [letter] Katchen MS. **Aviat Space Environ Med** 1990 Aug; 61(8):763–4
Cognitive impairment and cerebral structure by MRI in bipolar disorder. Coffman JA, et al. **Biol Psychiatry** 1990 Jun 1;27(11):1188–96
CSF 5-HIAA, serum cortisol, and age differentially predict vegetative and cognitive symptoms in depression. Faustman WO, et al. **Biol Psychiatry** 1990 Feb 1; 27(3):311–8
The cognitive effects of alcohol abuse: a controlled study. Williams CM, et al. **Br J Addict** 1990 Jul;85(7):911–7
Instability of performance on cognitive tests in infants and young children with Down's syndrome. Wishart JG, et al. **Br J Educ Psychol** 1990 Feb;60 (Pt 1):10–22
Clinical assessment of pediatric disorders of higher cerebral function. Klein SK, et al. **Curr Probl Pediatr** 1990 Jan; 20(1):1–60 (112 ref.)
Rapid bedside assessment of postoperative confusion in older patients. Pousada L, et al. **Geriatrics** 1990 May;45(5):59–64, 66 (16 ref.)
Cognitive impairment among geropsychiatric outpatients. Balster GA, et al. **Hosp Community Psychiatry** 1990 May; 41(5):556–8
Re: Wade DT et al. Selective Cognitive Losses After Stroke: Frequency Recovery and Prognostic Importance [letter; comment] Ebrahim S. **Int Disabil Stud** 1989 Jul–Sep; 11(3):141 Comment on: Int Disabil Stud 1989;11(1):34–9.
Detection of brain damage: neuropsychological assessment in a Spanish speaking population. Ostrosky-Solis F, et al. **Int J Neurosci** 1989 Dec;49(3–4):141–9
Strategies for resolving the heterogeneity of schizophrenics and their relatives using cognitive measures. Chapman LJ, et al. **J Abnorm Psychol** 1989 Nov;98(4):357–66
Cognitive impairment and length of hospital stay in older persons. Binder EF, et al. **J Am Geriatr Soc** 1990 Jul; 38(7):759–66
The mental efficiency of the elderly person with type II diabetes mellitus. U'Ren RC, et al. **J Am Geriatr Soc** 1990 May;38(5):505–10
The clinical significance of neurocognitive impairments among children with psychiatric disorders: diagnosis and situational specificity. Szatmari P, et al. **J Child Psychol Psychiatry** 1990 Jan;31(2):287–99
Gross intellectual impairment among non-institutionalized elderly: difficulties in assessment and risk factors. Pilpel D, et al. **J Community Health** 1990 Jun;15(3):209–23
Evaluation of cognitive impairment in the elderly. Ramsdell JW, et al. **J Gen Intern Med** 1990 Jan–Feb;5(1):55–64 (44 ref.)
Validity of the Mini-Mental State examination as a screening instrument for cognitive impairment and dementia in French elderly community residents. Gagnon M, et al. **Neuroepidemiology** 1990;9(3):143–50
A confused elderly lady. Jones G, et al. **Practitioner** 1990 Apr 22;234(1487):383–5
Thought disorder: current assessment, techniques, and future trends. McCarty T, et al. **Psychiatr J Univ Ott** 1989 Nov; 14(4):520–8
Ventricular size, cognitive and psychomotor performance, and laterality in schizophrenia. Classen W, et al. **Psychiatry Res** 1989 Sep;29(3):267–9
Separating cognitive impairment in neurologically asymptomatic alcoholism from Wernicke-Korsakoff syndrome: is the neuropsychological distinction justified? Bowden SC. **Psychol Bull** 1990 May;107(3):355–66 (120 ref.)
Cognitive functioning and symptomatology in chronic schizophrenia. Nelson HE, et al. **Psychol Med** 1990 May; 20(2):357–65
[Formal thinking, logical-discursive operations and schizophrenia: experimental study of a clinical case] de Bonis M, et al. **Can J Psychiatry** 1990 Feb;35(1):64–70 (Eng. Abstr.) **(Fre)**
[Neuropsychological findings following whiplash injury of the cervical spine] Radanov BP, et al. **Schweiz Med Wochenschr** 1990 May 12;120(19):704–8 (Eng. Abstr.) **(Ger)**
[Rudimentary psychomotor seizures and their differential diagnosis] Karbowski K. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):772–6 (Eng. Abstr.) **(Ger)**
[Diffuse bilateral periventricular hyperintensity of unknown origin on MRI spin-echo sequence. Cognitive function and regional cerebral blood flow] Lee S. **Nippon Ika Daigaku Zasshi** 1990 Jun;57(3):244–52 (Eng. Abstr.) **(Jpn)**
[Diagnostic process in consciousness disorders] **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):440–5 **(Jpn)**
[Evaluation of severity in consciousness disorders] Otogi H. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):430–4 **(Jpn)**
[Symptomatology of chronic and acute marijuana poisoning] Marmajewska G. **Psychiatr Pol** 1988 Nov-Dec; 22(6):474–82 (28 ref.) **(Pol)**
[Objective evaluation of the severity and prognosis of the outcome of trauma] Pashkovskil EV, et al. **Vestn Khir** 1989 Jul;143(7):127–32 (37 ref.) **(Rus)**
[Prognosis of mild dementia based on catamnestic study of the population] Gavrilova SI, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):73–8 (Eng. Abstr.) **(Rus)**
[Clinical picture of initial manifestations and the characteristics of the subsequent course of senile dementia] Kalyn IaB. **Zh Nevropatol Psikhiatr** 1989;89(9):78–85 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Cognition-enhancing effects of moclobemide, a reversible MAO inhibitor, in humans. Anand R, et al. **Adv Neurol** 1990;51:261–8
Amitriptyline treatment of agitation associated with anoxic encephalopathy. Szlabowicz JW, et al. **Arch Phys Med Rehabil** 1990 Jul;71(8):612–3
Treatment of the classical manifestations of dementia and confusion. Whalley LJ, et al. **Br Med Bull** 1990 Jan; 46(1):169–80 (41 ref.)
Role of acetyl-L-carnitine in the treatment of cognitive deficit in chronic alcoholism. Tempesta E, et al. **Int J Clin Pharmacol Res** 1990;10(1–2):101–7
(+-)-cis-2-methyl-spiro(1,3-oxathiolane-5,3') quinuclidine (AF102B): a new M1 agonist attenuates cognitive dysfunctions in AF64A-treated rats. Fisher A, et al. **Neurosci Lett** 1989 Jul 31;102(2–3):325–31
Therapeutic target for cognition enhancers: diagnosis and clinical phenomenology. Allain H, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:49–51 (14 ref.)

The families of cognition enhancers. Fröstl W, et al. **Pharmacopsychiatry** 1989 Oct;22 Suppl 2:54–100 (1024 ref.)
Early human trials in the assessment of cognition activators. Gamzu ER, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:44–8 (40 ref.)
Early clinical testing of cognition enhancers: prediction of efficacy. Hall ST, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:57–8; discussion 59 (8 ref.)
Late clinical testing of cognition enhancers: demonstration of efficacy. Schwartz G, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:60–2; discussion 63–4 (4 ref.)
Trends in searching for new cognition enhancing drugs. Merlini L, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S61–75 (99 ref.)
[An autopsied case of type II citrullinemia—transient effectiveness with either citrate or benzoate to the consciousness disturbance] Ujihira N, et al. **Rinsho Shinkeigaku** 1989 Apr;29(4):436–41 (26 ref.) (Eng. Abstr.) (Jpn)
[Neuroleptic drugs in geriatric psychiatry] Krzymiński S. **Psychiatr Pol** 1989 Jan–Feb;23(1):36–43 (Pol)

EPIDEMIOLOGY

The prevalence of cognitive impairment in an elderly Canadian population. Robertson D, et al. **Acta Psychiatr Scand** 1989 Oct;80(4):303–9
Specific cognitive impairment in sons of early onset alcoholics. Tarter RE, et al. **Alcoholism (N Y)** 1989 Dec; 13(6):786–9
The Guy's/Age Concern survey. Prevalence rates of cognitive impairment, depression and anxiety in an urban elderly community. Lindesay J, et al. **Br J Psychiatry** 1989 Sep;155:317–29
Sensitivity and specificity of standardized screens of cognitive impairment and dementia among elderly black and white community residents. Fillenbaum G, et al. **J Clin Epidemiol** 1990;43(7):651–60
Thought disorder in the relatives of schizophrenics. A meta-analytic review of selected published studies. Romney DM. **J Nerv Ment Dis** 1990 Aug;178(8):481–6
Changes in resident mix in nursing homes: cognitive and sensory data from a (redesigned) sampling plan. Abraham IL, et al. **Psychol Rep** 1990 Apr;66(2):547–50
[Epidemiologic study of a geriatric population in an isolated community: La Graciosa (Canary islands)] Crespo D, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1990 Mar–Apr;18(2):111–9 (Eng. Abstr.) (Spa)

ETIOLOGY

Swingshift encephalopathy [comment] Wagner M. **Acad Med** 1989 Oct;64(10):584 Comment on: Acad Med 1989 Jan;64(1):29–32.
Spatial impairment following right hemisphere transient ischaemic attacks in patients without carotid artery stenosis. Brådvik B, et al. **Acta Neurol Scand** 1989 Nov;80(5):411–8
Cognitive impairment in amyotrophic lateral sclerosis and its relation to motor disabilities. Iwasaki Y, et al. **Acta Neurol Scand** 1990 Feb;81(2):141–3
Cognitive functioning after subarachnoid haemorrhage of unknown origin. Sonesson B, et al. **Acta Neurol Scand** 1989 Nov;80(5):400–10
The contribution of computerized tomography to the differential diagnosis of confusion in elderly patients. Roberts MA, et al. **Age Ageing** 1990 Jan;19(1):50–6
Effects of social drinking and familial alcoholism risk on cognitive functioning: null findings. Alterman AI, et al. **Alcoholism (N Y)** 1989 Dec;13(6):799–803
Cognitive impairment after head injury. McSherry JA. **Am Fam Physician** 1989 Oct;40(4):186–90
Age-related cognitive recovery after general anesthesia. Chung F, et al. **Anesth Analg** 1990 Sep;71(3):217–24
Cognitive deficiency induced by the acute stress in rats: a possible role of brain catecholaminergic systems. Rayevsky KS, et al. **Ann Ist Super Sanita** 1990;26(1):25–9
Long latency event-related potentials in patients infected with human immunodeficiency virus. Goodin DS, et al. **Ann Neurol** 1990 Apr;27(4):414–9
Peduncular hallucinosis associated with isolated infarction of the substantia nigra pars reticulata. McKee AC, et al. **Ann Neurol** 1990 May;27(5):500–4
Cognitive disturbances in patients with relapsing remitting multiple sclerosis. Beatty WW, et al. **Arch Neurol** 1989 Oct; 46(10):1113–9
Rehabilitation inpatient screening of early cognitive recovery. Barry P, et al. **Arch Phys Med Rehabil** 1989 Dec; 70(13):902–6
Cognitive dysfunction in spinal cord injury patients: sensitivity of the Functional Independence Measure subscales vs neuropsychologic assessment. Davidoff GN, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):326–9
Alcohol and conscious level. Cartlidge D, et al. **Biomed Pharmacother** 1990;44(4):205–8
Petit mal status: an unusual cause of confusion. Boyd O, et al. **Br J Hosp Med** 1990 Mar;43(3):230–1
Cognitive functioning in lead workers. Stollery BT, et al. **Br J Ind Med** 1989 Oct;46(10):698–707
Depression and cognitive impairment in Parkinson's disease. Starkstein SE, et al. **Brain** 1989 Oct;112 (Pt 5):1141–53
Medulloblastoma in childhood: progressive intellectual deterioration. Hoppe-Hirsch E, et al. **Childs Nerv Syst** 1990 Mar;6(2):60–5
A prospective study of the predictive value of electroencephalographic abnormalities for epileptic loss of consciousness. Collins S, et al. **Clin Exp Neurol** 1988; 25:103–8
Paramedian thalamic and midbrain infarction: the 'mesencephalothalamic syndrome'. Waterston JA, et al. **Clin Exp Neurol** 1987;24:45–53
On-line detection of transient neuropsychological disturbances during EEG discharges in children with epilepsy. Kasteleijn-Nolst Trenité DG, et al. **Dev Med Child Neurol** 1990 Jan;32(1):46–50
CNS irradiation and memory deficit [letter] Morrow J, et al. **Dev Med Child Neurol** 1989 Oct;31(5):690–1
Hypoglycemic thresholds for cognitive dysfunction in humans. Blackman JD, et al. **Diabetes** 1990 Jul;39(7):828–35
Semi-late onset and rapidly progressive case of Lafora's disease with predominant cognitive symptoms. Genton P, et al. **Eur Neurol** 1989;29(6):333–8
Neuropsychological correlates of subclinical paroxysmal EEG activity in children with epilepsy. 1: Qualitative features (generalized and focal abnormalities). Brinciotti M, et al. **Funct Neurol** 1989 Jul–Sep;4(3):235–9
Neuropsychological correlates of subclinical paroxysmal EEG activity in children with epilepsy. 2: Quantitative aspects. Matricardi M, et al. **Funct Neurol** 1989 Jul–Sep; 4(3):241–6
Cognitive function in multiple sclerosis and its relation to functional abilities. Iwasaki Y, et al. **Int J Neurosci** 1989 Oct;48(3–4):219–23
Cognitive function in Parkinson's disease: in relation to motor symptoms. Iwasaki Y, et al. **Int J Neurosci** 1989 Aug; 47(3–4):295–300
Incidence and evolution of the hemineglect disorder in chronic patients with unilateral right brain damage. Zoccolotti P, et al. **Int J Neurosci** 1989 Aug;47(3–4):209–16
Psychic akinesia following bilateral pallidal lesions. Starkstein SE, et al. **Int J Psychiatry Med** 1989;19(2):155–64 (37 ref.)
Neuropsychological investigation of patients with AIDS and ARC. Perdices M, et al. **J Acquir Immune Defic Syndr** 1990;3(6):555–64
Psychosocial aspects of diabetes mellitus in older persons [editorial] Morley JE, et al. **J Am Geriatr Soc** 1990 May; 38(5):605–6
The selective attention deficit in schizophrenia. Limited resources or cognitive fatigue? Everett J, et al. **J Nerv Ment Dis** 1989 Dec;177(12):735–8
Intellectual impairment and cognitive evoked potentials in myotonic dystrophy. Perini GI, et al. **J Nerv Ment Dis** 1989 Dec;177(12):750–4
Cognitive abnormalities in schizophrenic patients and schizotypal college students. Spaulding W, et al. **J Nerv Ment Dis** 1989 Dec;177(12):717–28
Cognitive impairment in Parkinson's disease: amyloid plaques, neurofibrillary tangles, and neuropil threads in the cerebral cortex. Braak H, et al. **J Neural Transm Park Dis Dement Sect** 1990;2(1):45–57
Recency-primacy recognition in Parkinson's disease. Fischer P, et al. **J Neural Transm Park Dis Dement Sect** 1990; 2(1):71–7
Performances of multiple sclerosis patients in tasks requiring language and visuoconstruction. Assessment of outpatients in quiescent disease stages. Jennekens-Schinkel A, et al. **J Neurol Sci** 1990 Jan;95(1):89–103
Penetrating head injury in young adulthood exacerbates cognitive decline in later years. Corkin S, et al. **J Neurosci** 1989 Nov;9(11):3876–83
A controlled trial of piracetam in intellectually impaired patients with Parkinson's disease. Sano M, et al. **Mov Disord** 1990;5(3):230–4
Social outcome related to cognitive performance and computed tomographic findings after surgery for a ruptured intracranial aneurysm. Vilkki J, et al. **Neurosurgery** 1990 Apr;26(4):579–84; discussion 584–5
Early detection and diagnosis of neurobehavioral disorders associated with cancer and its treatment. Meyers CA, et al. **Oncology (Williston Park)** 1990 Jul;4(7):115–22; discussion 122, 126–7, 130
A controlled study of neuropsychological deficits in acute spinal cord injury patients. Roth E, et al. **Paraplegia** 1989 Dec;27(6):480–9
Epilepsy in children with attention deficit disorder: cognitive, behavioral, and neuroanatomic indices. Kinney RO, et al. **Pediatr Neurol** 1990 Jan–Feb;6(1):31–7
Etiology of intellectual impairment in Duchenne muscular dystrophy. al-Qudah AA, et al. **Pediatr Neurol** 1990 Jan–Feb;6(1):57–9
Cognitive and behavioral sequelae of mild head injury in children. Bijur PE, et al. **Pediatrics** 1990 Sep;86(3):337–44
[Cognitive and behavioral disorders in disseminated sclerosis] Jønsson A, et al. **Ugeskr Laeger** 1990 Jun 4;152(23):1681 (Dan)
[Confusion in primary hyperparathyroidism. An uncommon manifestation in the elderly. 3 cases] Salomez-Granier F, et al. **Rev Med Interne** 1989 Jul–Aug;10(4):319–22 (28 ref.) (Eng. Abstr.) (Fre)
[Symptoms of confusion in the elderly—differential diagnostic considerations] Schax M, et al. **Med Klin** 1989 Aug 15;84(8):411–3 (Ger)
[Acute confusional states in the framework of internal medicine disorders] Frossard E. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):782–3 (Eng. Abstr.) (Ger)
[Non-epileptic impaired consciousness in neurologic diseases] Hess CW. **Schweiz Rundsch Med Prax** 1989 Jul 18; 78(29–30):808–11 (15 ref.) (Eng. Abstr.) (Ger)
[Epileptic impaired consciousness in adults] Karbowski K. **Schweiz Rundsch Med Prax** 1989 Jul 18;78(29–30):802–7 (39 ref.) (Eng. Abstr.) (Ger)
[Differential diagnosis of impaired consciousness in the child] Vassella F. **Schweiz Rundsch Med Prax** 1989 Jul 18; 78(29–30):799–801 (4 ref.) (Eng. Abstr.) (Ger)
[A case of hypereosinophilic syndrome associated with consciousness disorder and hemiparesis] Haraoka H, et al. **Nippon Naika Gakkai Zasshi** 1990 Feb 10;79(2):233–4 (Jpn)
[Endocrine diseases and consciousness disorders in the aged] Nagataki S, et al. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):463–7 (Jpn)
[Water-electrolyte imbalance and consciousness disorders in the aged] Saito T. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):457–62 (Jpn)
[Consciousness disorders in cerebrovascular diseases] Terashi A. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):446–51 (Jpn)
[Consciousness disorders due to hypoxia in the aged] Yokoyama T. **Nippon Naika Gakkai Zasshi** 1990 Apr 10; 79(4):452–6 (Jpn)
[Neurologic and mental disorders in infectious endocarditis] Chekneva NS, et al. **Sov Med** 1989;(10):99–103 (Rus)
[Surgical treatment of patients with cranio-cerebral trauma and the role of neurological symptoms in the prognosis of its outcomes] Mamadaliev AM, et al. **Vestn Khir** 1989 May;142(5):68–72 (Eng. Abstr.) (Rus)
[Clinical aspects of paroxysmal states in children with depression] Mamtseva VN. **Zh Nevropatol Psikhiatr** 1989; 89(8):85–90 (Eng. Abstr.) (Rus)
[Cognition disorders in schizophrenia: evaluation using the Frankfurt psychopathologic inventory (FBF-3). Initial results] Peralta Martín V, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Jul–Aug;17(4):255–62 (Eng. Abstr.) (Spa)
[Neuropsychological deterioration in Huntington chorea] Junqué C, et al. **Neurologia** 1987 May–Jun;2(3):109–13 (Eng. Abstr.) (Spa)
[Psychiatric manifestations as the presenting form of primary cerebral tumor (letter)] Fornés L, et al. **Rev Clin Esp** 1990 Mar;186(4):194–5 (Spa)

GENETICS

Cognitive subclinical markers in autism. Smalley SL, et al. **J Autism Dev Disord** 1990 Jun;20(2):271–8

IMMUNOLOGY

Serum lymphocytotoxic antibodies and neurocognitive function in systemic lupus erythematosus. Long AA, et al. **Ann Rheum Dis** 1990 Apr;49(4):249–53

MICROBIOLOGY

Intellectual ability of children after perinatal cytomegalovirus infection. Gentile MA, et al. **Dev Med Child Neurol** 1989 Dec;31(6):782–6

MORTALITY

Cognitive impairment and mortality: a study of possible confounders. Liu IY, et al. **Am J Epidemiol** 1990 Jul; 132(1):136–43
Cognitive impairment and early death in the elderly [letter; comment] **BMJ** 1990 Mar 10;300(6725):681–2 Comment on: BMJ 1990 Jan 27;300(6719):239–40.
Relation between cognitive impairment and early death in the elderly [see comments] Eagles JM, et al. **BMJ** 1990 Jan 27;300(6719):239–40 Comment in: BMJ 1990 Feb 24;300(6723):535–6. Comment in: BMJ 1990 Mar 10;300(6725):681–2.
Cognitive impairment and death in the elderly [letter; comment] Ramsay R, et al. **BMJ** 1990 Feb 24; 300(6723):535–6 Comment on: BMJ 1990 Jan 27;300(6719):239–40.

NURSING

Complexities of acute confusion. Foreman MD. **Geriatr Nurs (New York)** 1990 May–Jun;11(3):136–9
Price of no restraints [editorial] Huey FL. **Geriatr Nurs (New York)** 1990 Mar–Apr;11(2):57
Post-operative confusion in the elderly—a literature review. Platzer H. **Int J Nurs Stud** 1989;26(4):369–79 (47 ref.)
Caregivers' perception of aggressive behavior in cognitively impaired nursing home residents. Beck C, et al. **J Neurosci Nurs** 1990 Jun;22(3):169–72

PATHOLOGY

[Mental confusion in hemorrhage of the gastrointestinal tract caused by erosion of the gastric mucosa] Adebahr G, et al. **Beitr Gerichtl Med** 1989;47:341–3 (Eng. Abstr.) (Ger)

PHYSIOPATHOLOGY

Oculomotor and electrophysiological signs of distractibility in schizophrenics. Paus T, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):147–8
Cognitive effects of corticosteroids. Wolkowitz OM, et al.

Am J Psychiatry 1990 Oct;147(10):1297–303
Cerebral tissue oxygen status and psychomotor performance during lower body negative pressure (LBNP). Glaister DH, et al. **Aviat Space Environ Med** 1990 Feb;61(2):99–105
Hypofrontality and cognitive impairment in schizophrenia: dynamic single–photon tomography and neuropsychological assessment of schizophrenic brain function. Paulman RG, et al. **Biol Psychiatry** 1990 Feb 15; 27(4):377–99
Cognitive inflexibility and pre–frontal dysfunction in schizophrenia and mania. Morice R. **Br J Psychiatry** 1990 Jul;157:50–4
Cognitive processing deficits in reading disabilities: a prefrontal cortical hypothesis. Kelly MS, et al. **Brain Cogn** 1989 Nov;11(2):275–93
Cholinergic cell loss and cognitive impairments following intraventricular or intradentate injection of colchicine. Emerich DF, et al. **Brain Res** 1990 May 28;517(1–2):157–67
A study of the cardiopressor effects of lisuride in the treatment of parkinsonism and pathological aging brain. Micieli G, et al. **Clin Neuropharmacol** 1989 Oct; 12(5):404–15
Relationship between neurodevelopmental status of very preterm infants at one and four years. Stewart AL, et al. **Dev Med Child Neurol** 1989 Dec;31(6):756–65
Relationship of neurological and psychological signs to physical and metabolic risk factors in elderly persons living in retirement facilities: a multidisciplinary approach. Sinisi L, et al. **Funct Neurol** 1989 Jul–Sep;4(3):277–82
Cognitive event–related potentials and reaction time in presenile subjects with initial mild cognitive decline or probable Alzheimer–type dementia. Zappoli R, et al. **Ital J Neurol Sci** 1990 Apr;11(2):113–30
Relation of cognitive status and abnormal behaviors in Alzheimer's disease. Cooper JK, et al. **J Am Geriatr Soc** 1990 Aug;38(8):867–70
Lateralisation of cortical function during cognitive tasks: regional cerebral blood flow studies of normal individuals and patients with schizophrenia. Berman KF, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):150–60
Prolonged postictal encephalopathy. Biton V, et al. **Neurology** 1990 Jun;40(6):963–6
Can the pattern of neuropsychological improvement obtained with cholinergic drugs be used to infer a cholinergic mechanism in other nootropic drugs? Gainotti G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S47–59
HPA axis responsivity to dexamethasone and cognitive impairment in dementia. Gurevich D, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):297–308
Brain electrical mapping of cognitive functions for psychiatry: functional micro–states. Lehmann D. **Psychiatry Res** 1989 Sep;29(3):385–6
Electrode placement in ECT: cognitive effects. Lawson JS, et al. **Psychol Med** 1990 May;20(2):335–44
Abnormalities of the nervous system in Lyme disease: response to antimicrobial therapy [published erratum appears in Rev Infect Dis 1990 May–Jun;12(3):566] Halperin JJ. **Rev Infect Dis** 1989 Sep–Oct;11 Suppl 6:S1499–504 (14 ref.)
Does the melody linger on? Music cognition in Alzheimer's disease. Swartz KP, et al. **Semin Neurol** 1989 Jun;9(2):152–8 (36 ref.)
Category–related recognition defects as a clue to the neural substrates of knowledge. Damasio AR. **Trends Neurosci** 1990 Mar;13(3):95–8 (18 ref.)
[Comments on the contribution by S. Biedert et al. Acute and subacute organic psychoses with consciousness disorder. Nervenarzt (1989) 60: 344–348 (letter)] Grisold W. **Nervenarzt** 1990 May;61(5):317 **(Ger)**
[Physiopathology and etiology of consciousness disorders] Takahashi A. **Nippon Naika Gakkai Zasshi** 1990 Apr 10; 79(4):425–9 **(Jpn)**

PREVENTION & CONTROL

Continuous observation for psychiatric inpatients: a critical evaluation. Shugar G, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):48–55
[Risk of postoperative consciousness disorders in the aged and countermeasures] Ozawa T. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):486–90 **(Jpn)**

PSYCHOLOGY

Information processing: a new model for understanding cognitive disturbances in psychiatric patients. Rund BR, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):305–16 (110 ref.)
Rigidity in mentally retarded and nonretarded children. Kreitler S, et al. **Am J Ment Retard** 1990 Mar;94(5):550–62
Cognitive play of mentally retarded preschoolers: observations in the home and school. Malone DM, et al. **Am J Ment Retard** 1990 Mar;94(5):475–87
Parkinson's disease: a conceptualization of neuropsychological deficits within an information–processing framework. Karayanidis F. **Biol Psychol** 1989 Oct;29(2):149–79 (150 ref.)
Unilateral sensorineural hearing loss in children: cognitive abilities with respect to right/left ear differences. Hartvig Jensen J, et al. **Br J Audiol** 1989 Aug;23(3):215–20
ASC and water intoxication [letter; comment] Lee S. **Br J Psychiatry** 1989 Dec;155:866–7 Comment on: Br J Psychiatry 1989 Aug;155:266.
Changes in cognitive and social functioning of diabetic patients following initiation of insulin infusion therapy. Connis RT, et al. **Exp Aging Res** 1989 Spring–Summer; 15(1–2):51–60
Impacts associated with special care units in long–term care facilities. Holmes D, et al. **Gerontologist** 1990 Apr; 30(2):178–83
Cognitive failure and chronic pain. Dufton BD. **Int J Psychiatry Med** 1989;19(3):291–7
Cognitive functioning in depressed children and adolescents. Sohlberg SC. **Isr J Psychiatry Relat Sci** 1989;26(1–2):37–45 (38 ref.)
Cognitive deficit or cognitive distortion in childhood depression. Kendall PC, et al. **J Abnorm Child Psychol** 1990 Jun;18(3):255–70
Functional status and cognitive impairment in Alzheimer's patients with and without depression. Pearson JL, et al. **J Am Geriatr Soc** 1989 Dec;37(12):1117–21
Presidents Test performance in varieties of diffuse and unilateral cerebral disease. Roberts RJ, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):195–208
Cognitive functioning in depression. Sweeney JA, et al. **J Clin Psychol** 1989 Nov;45(6):836–42
Selective deficits in cognition and memory in high–functioning parkinsonian patients. Mohr E, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):603–6
Cognitive impairments and depression in Parkinson's disease: a follow up study. Starkstein SE, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):597–602
Left–right spatial agnosia and other mental defects that characterize clinical researchers. Allen AD. **Med Hypotheses** 1990 Feb;31(2):115–20
Age–induced cognitive disturbances in Parkinson's disease. Dubois B, et al. **Neurology** 1990 Jan;40(1):38–41
Self–report of right–left confusion in college men and women. Hannay HJ, et al. **Percept Mot Skills** 1990 Apr; 70(2):451–7
Information processing deficits of schizophrenic children with formal thought disorder. Caplan R, et al. **Psychiatry Res** 1990 Feb;31(2):169–77
Impaired effortful cognition in depression. Tancer ME, et al. **Psychiatry Res** 1990 Feb;31(2):161–8
An Orientation questionnaire. Hutzell RR, et al. **Psychol Aging** 1987 Sep;2(3):211–6
The effects of interference tasks on recency in the free recall of action events. Cohen RL. **Psychol Res** 1989;51(4):176–80
Prospects for a cognitive neuropsychology of autism: Hobson's choice [comment] Leslie AM, et al. **Psychol Rev** 1990 Jan;97(1):122–31 Comment on: Psychol Rev 1990 Jan;97(1):114–21.
First person account: a pit of confusion. **Schizophr Bull** 1990; 16(2):355–9
Cognitive deficits and thought disorder: II. An 8–month followup study. Harvey PD, et al. **Schizophr Bull** 1990; 16(1):147–56
Cognitive impairments in abstinent alcoholics. Fein G, et al. **West J Med** 1990 May;152(5):531–7 (106 ref.)
[Cognitive and psychological disorders following whiplash injury: 2 case reports concerning the controversy between the organic versus the psychogenic etiology of symptoms] Ettlin T, et al. **Schweiz Rundsch Med Prax** 1989 Sep 5; 78(36):967–9 (Eng. Abstr.) **(Ger)**
[Psychogenic impaired consciousness] Heim E. **Schweiz Rundsch Med Prax** 1989 Jul 18;78(29–30):812–5 (4 ref.) (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Confusional state and cerebral infarcts. García–Albea E. **Postgrad Med J** 1989 May;65(763):286–90

RADIONUCLIDE IMAGING

Assessing utility of single photon emission computed tomography (SPECT) scan in Alzheimer disease: correlation with cognitive severity. DeKosky ST, et al. **Alzheimer Dis Assoc Disord** 1990;4(1):14–23

REHABILITATION

Teaching the patient with cognitive deficits to use a computer. Batt RC, et al. **Am J Occup Ther** 1990 Apr; 44(4):364–7
Issues in cognitive rehabilitation. Berrol S. **Arch Neurol** 1990 Feb;47(2):219–20 (14 ref.)
Cognitive rehabilitation. Unproved but promising. Levin HS. **Arch Neurol** 1990 Feb;47(2):223–4
The efficacy of cognitive rehabilitation in patients with traumatic brain injury. Volpe BT, et al. **Arch Neurol** 1990 Feb;47(2):220–2 (39 ref.)
Neurocognitive deficits of alcoholism: an intervention. Wetzig DL, et al. **J Clin Psychol** 1990 Mar;46(2):219–29
[The limits of cognitive training methods in long–term schizophrenic patients] Funke B, et al. **Nervenarzt** 1989 Dec;60(12):750–6 **(Ger)**
[Cognitive deficits, vitamin status and controlled thiamine substitution in alcohol dependent patients in withdrawal treatment] Vischer A, et al. **Nervenarzt** 1989 Oct; 60(10):633–40 (Eng. Abstr.) **(Ger)**

THERAPY

Response prompting and fading methods: a review. Demchak M. **Am J Ment Retard** 1990 May;94(6):603–15 (63 ref.)
The treatment of basic psychological dysfunctions from a systemic point of view. Brenner HD. **Br J Psychiatry Suppl** 1989 Jul;(5):74–83 (56 ref.)
The logical and psychometric prerequisites for cognitive therapy of schizophrenia. Spaulding W, et al. **Br J Psychiatry Suppl** 1989 Jul;(5):69–73
Treatment response of high cognitive dysfunction depressed inpatients. Miller IW, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):62–71
Reduction of schizophrenic deficits by cognitive training: an evaluative study. Olbrich R, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):366–9
[Emergency treatment of consciousness disorders] Kowa H. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):435–9 **(Jpn)**

COGNITIVE DISSONANCE

Perceptions of immunity to disease in adult smokers. Lee C. **J Behav Med** 1989 Jun;12(3):267–77

COGNITIVE THERAPY

Heterogeneity of clinical presentation among obese individuals seeking treatment. Fitzgibbon ML, et al. **Addict Behav** 1990;15(3):291–5
The effects of marital status and partner support on rape trauma. Moss M, et al. **Am J Orthopsychiatry** 1990 Jul; 60(3):379–91
Antidepressant and cognitive behavior therapy for an AIDS patient [letter] Bhugra D, et al. **Am J Psychiatry** 1990 Feb; 147(2):256
Adequacy of pharmacological treatment [letter; comment] Bradwejn J, et al. **Am J Psychiatry** 1990 Jul;147(7):953–4 Comment on: Am J Psychiatry 1989 Oct;146(10):1274–9.
Cognitive–behavioural factors and the persistence of intrusive thoughts in obsessional problems. Salkovskis PM. **Behav Res Ther** 1989;27(6):677–82; discussion 683–4
The management and treatment of personality–disordered patients. The use of sequential diagrammatic reformulation. Beard H, et al. **Br J Psychiatry** 1990 Apr;156:541–5
A controlled evaluation of the addition of cognitive therapy to a home–based biofeedback and relaxation treatment of vascular headache. Blanchard EB, et al. **Headache** 1990 May;30(6):371–6
Factors influencing utilization of postdischarge cognitive rehabilitation programs. Gummow LJ, et al. **Health Serv Res** 1990 Apr;25(1 Pt 2):197–211
The frequency and effect on outcome of different types of interpretation in psychodynamic and cognitive–behavioral group psychotherapy. Flowers JV, et al. **Int J Group Psychother** 1990 Apr;40(2):203–14
A pilot study of a modified Balint group using cognitive approaches to physician attitudes about somatoform disorder patients. Hartmann PM. **Int J Psychosom** 1989; 36(1–4):86–9
Relationship of client participation to psychotherapy. Nelson RA, et al. **J Behav Ther Exp Psychiatry** 1989 Jun; 20(2):155–62
Inpatient social–cognitive skills training groups with conduct disordered and attention deficit disordered children. Kolko DJ, et al. **J Child Psychol Psychiatry** 1990 Jul;31(5):737–48
Improvement after evaluation in psychotherapy of depression: evidence of a placebo effect? Beckham EE. **J Clin Psychol** 1989 Nov;45(6):945–50
Cognitive–behavioral treatment with and without exposure plus response prevention in the treatment of bulimia nervosa: a reply to Leitenberg and Rosen. Agras WS, et al. **J Consult Clin Psychol** 1989 Dec;57(6):778–9
Mode–specific effects among three treatments for depression. Imber SD, et al. **J Consult Clin Psychol** 1990 Jun; 58(3):352–9
Cognitive–behavioral therapy with and without exposure plus response prevention in treatment of bulimia nervosa: comment on Agras, Schneider, Arnow, Raeburn, and Telch. Leitenberg H, et al. **J Consult Clin Psychol** 1989 Dec;57(6):776–7
Cognitive therapy of panic disorder. A nonpharmacological alternative. Sokol L, et al. **J Nerv Ment Dis** 1989 Dec; 177(12):711–6
Cognitive–behavioral therapy for primary fibromyalgia. Bradley LA. **J Rheumatol Suppl** 1989 Nov;19:131–6 (45 ref.)
Increased relapse of duodenal ulcers in patients treated with cognitive psychotherapy [letter] Wilhelmsen I, et al. **Lancet** 1990 Aug 4;336(8710):307
Ephedrine–induced thermogenesis as an adjunct to cognitive restructuring and covert conditioning: a proposal for treatment of obese individuals. Zgourides GD, et al. **Percept Mot Skills** 1989 Oct;69(2):563–72
Bulimia nervosa: a four– to six–year follow–up study. Hsu LK, et al. **Psychol Med** 1989 Nov;19(4):1035–8
Effects and limitations of cognitive behavior therapy in bulimia inpatients. Bossert S, et al. **Psychother Psychosom** 1989;51(2):77–82
[Cognitive therapy of depressive disorders] Inoue K. **Seishin Shinkeigaku Zasshi** 1989;91(9):647–54 **(Jpn)**
[Cognitive therapy. Methods and applications] Wilhelmsen I, et al. **Tidsskr Nor Laegeforen** 1990 May 20;

110(13):1669–72 (19 ref.) (Eng. Abstr.) (Nor)
[Cognitive theories of depression. I. Beck's theory and the theory of susceptibility of Brown and Harris] Stach R, et al. **Psychiatr Pol** 1989 May–Jun;23(3):217–23 (16 ref.) (Pol)

INSTRUMENTATION

A computerized approach to cognitive behavioural assessment: an introduction to CBA–2.0 primary scales. Bertolotti G, et al. **J Behav Ther Exp Psychiatry** 1990 Mar; 21(1):21–7

METHODS

A cognitive–behavioral approach to substance abuse prevention: one–year follow–up. Botvin GJ, et al. **Addict Behav** 1990;15(1):47–63
A cognitive/affective empathy training program as a function of ego development in aggressive adolescent females. Pecukonis EV. **Adolescence** 1990 Spring;25(97):59–76
Treating bulimia. Thornton LP, et al. **Adolescence** 1989 Fall; 24(95):631–7
Computer–administered cognitive–behavioral therapy for depression. Selmi PM, et al. **Am J Psychiatry** 1990 Jan; 147(1):51–6
Experiential aspects of bulimia nervosa. Implications for cognitive behavioral therapy. Hsu LK. **Behav Modif** 1990 Jan;14(1):50–65
A controlled trial of cognitive–behavioural and behavioural treatment of anorexia nervosa. Channon S, et al. **Behav Res Ther** 1989;27(5):529–35
Salkovskis on obsessional–compulsive neurosis: a critique. Jakes I. **Behav Res Ther** 1989;27(6):673–5
Psychophysiological outcome of cognitive, behavioral and psychophysiologically–based treatments of agoraphobia. Michelson L, et al. **Behav Res Ther** 1990;28(2):127–39
Panic disorder: cognitive–behavioral treatment. Michelson L, et al. **Behav Res Ther** 1990;28(2):141–51
Brief didactic treatment for alcohol and drug–related problems: an approach based on client choice. Sanchez–Craig M. **Br J Addict** 1990 Feb;85(2):169–77
Cognitive therapy vs. self–management training in the treatment of chronic headaches. Martin PR, et al. **Br J Clin Psychol** 1989 Nov;28 (Pt 4):347–61
A preliminary study of psychological therapy in the management of atopic eczema. Horne DJ, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):241–8
An uncontrolled study of cognitive therapy for morbid jealousy. Bishay NR, et al. **Br J Psychiatry** 1989 Mar; 154:386–9
Treatment of depressed in–patients. Cognitive therapy plus medication, relaxation plus medication, and medication alone. Bowers WA. **Br J Psychiatry** 1990 Jan;156:73–8
The question of therapists' differential effectiveness. A Sheffield Psychotherapy Project addendum. Shapiro DA, et al. **Br J Psychiatry** 1989 Mar;154:383–5
The logical and psychometric prerequisites for cognitive therapy of schizophrenia. Spaulding W, et al. **Br J Psychiatry Suppl** 1989 Jul;(5):69–73
Visual imagery as a cognitive means of compensation for brain injury. Stern JM, et al. **Brain Inj** 1989 Oct–Dec; 3(4):413–9
Treatment response of high cognitive dysfunction depressed inpatients. Miller IW, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):62–71
Reduction of schizophrenic deficits by cognitive training: an evaluative study. Olbrich R, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):366–9
Utilizing cognitive therapy on the short–term psychiatric inpatient unit. Davis MH, et al. **Gen Hosp Psychiatry** 1990 May;12(3):170–6
Medical illness and the acceptance of suffering. Bates A, et al. **Int J Psychiatry Med** 1989;19(3):269–80 (32 ref.)
An evaluation of tailored psychological treatment of insomnia. Espie CA, et al. **J Behav Ther Exp Psychiatry** 1989 Jun;20(2):143–53
Treatment of an adolescent with obsessive–compulsive disorder by alternating response prevention and cognitive therapy: an empirical analysis. Kearney CA, et al. **J Behav Ther Exp Psychiatry** 1990 Mar;21(1):39–47
Cognitive impulsivity training: the effects of peer teaching. Nelson WM 3d, et al. **J Behav Ther Exp Psychiatry** 1989 Dec;20(4):303–9
Effectiveness of matched, mismatched, and package treatments of depression. Nelson–Gray RO, et al. **J Behav Ther Exp Psychiatry** 1989 Dec;20(4):281–94
Treatment of recurrent nightmares by the dream reorganization approach. Palace EM, et al. **J Behav Ther Exp Psychiatry** 1989 Sep;20(3):219–26
Menstruation phobia treated by cognitive correction: a case report. Shaw J. **J Behav Ther Exp Psychiatry** 1990 Mar; 21(1):49–51
Neurocognitive deficits of alcoholism: an intervention. Wetzig DL, et al. **J Clin Psychol** 1990 Mar;46(2):219–29
Placebo–controlled evaluation of abbreviated progressive muscle relaxation and of relaxation combined with cognitive therapy in the treatment of tension headache. Blanchard EB, et al. **J Consult Clin Psychol** 1990 Apr; 58(2):210–5
A controlled evaluation of thermal biofeedback and thermal biofeedback combined with cognitive therapy in the treatment of vascular headache. Blanchard EB, et al. **J Consult Clin Psychol** 1990 Apr;58(2):216–24
A comparison of meditation–relaxation and cognitive/behavioral techniques for reducing anxiety and depression in a geriatric population. Deberry S, et al. **J Geriatr Psychiatry** 1989;22(2):231–47
The evaluation of a cognitive behavioural treatment programme in outpatients with chronic pain. Skinner JB, et al. **J Psychosom Res** 1990;34(1):13–9
A cognitive–behavioural approach to hypochondriasis and health anxiety. Warwick HM. **J Psychosom Res** 1989; 33(6):705–11
Communication skills training, communication skills training with family and cognitive behavioral mood management training for alcoholics. Monti PM, et al. **J Stud Alcohol** 1990 May;51(3):263–70
Psychological intervention can partly alter P300–amplitude abnormalities in schizophrenics. Fukuda M, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):633–8
Behavioural treatment of epilepsy. Fenwick PB. **Postgrad Med J** 1990 May;66(775):336–8 (29 ref.)
Age analysis of cognitive–behavioral group therapy for chronic pain outpatients. Puder RS. **Psychol Aging** 1988 Jun;3(2):204–7
[The limits of cognitive training methods in long–term schizophrenic patients] Funke B, et al. **Nervenarzt** 1989 Dec;60(12):750–6 (Ger)
[Initial experiences with cognitive therapy of schizophrenic patients] Peter K, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Aug; 41(8):485–91 (Eng. Abstr.) (Ger)
[Possibilities of cognitive behavior therapy in general practice] Pfeifer S. **Ther Umsch** 1990 Mar;47(3):214–20 (31 ref.) (Eng. Abstr.) (Ger)

STANDARDS

Generalization of tolerance to motion environments. Dobie TG, et al. **Aviat Space Environ Med** 1990 Aug;61(8):707–11

COHORT ANALYSIS see COHORT STUDIES

COHORT STUDIES

Matching and efficiency in cohort studies. Greenland S, et al. **Am J Epidemiol** 1990 Jan;131(1):151–9
Nested case–control and case–cohort methods of sampling from a cohort: a critical comparison. Langholz B, et al. **Am J Epidemiol** 1990 Jan;131(1):169–76
On power and sample size for studying features of the relative odds of disease. Lubin JH, et al. **Am J Epidemiol** 1990 Mar; 131(3):552–66
A note on the estimate of the relative risk when sample sizes are small [letter] Lui KJ. **Biometrics** 1989 Sep;45(3):1030–2
Designs for synthetic case–control studies in open cohorts. Robins JM, et al. **Biometrics** 1989 Dec;45(4):1103–16
Cohort studies: what editors want from authors and peer reviewers [editorial] Squires BP, et al. **Can Med Assoc J** 1990 Aug 1;143(3):179–80
A SAS program for evaluating person–years of risk in cohort studies. Yaari S, et al. **Comput Biol Med** 1989;19(5):353–9
Bias on withdrawing lost subjects from the analysis at the time of loss, in cohort mortality studies, and in follow–up methods. Johnson ES. **J Occup Med** 1990 Mar;32(3):250–4
Risk analysis in cohort studies with heterogeneous strata. A global chi2–test for dose–response relationship, generalizing the Mantel–Haenszel procedure. Ahlborn W, et al. **Methods Inf Med** 1990 Mar;29(2):113–21
The Pelotas (Brazil) birth cohort study 1982–1987: strategies for following up 6,000 children in a developing country. Barros FC, et al. **Paediatr Perinat Epidemiol** 1990 Apr; 4(2):205–20
A comparison of maximum likelihood and Jewell's estimators of the odds ratio and relative risk in single 2 x 2 tables. Becker S. **Stat Med** 1989 Aug;8(8):987–96
Empirical comparisons of proportional hazards and logistic regression models [letter; comment] Mock P. **Stat Med** 1990 Apr;9(4):463–4 Comment on: Stat Med 1989 May;8(5):525–38.
Analysis of epidemiologic case–base studies for binary data. Nurminen M. **Stat Med** 1989 Oct;8(10):1241–54
Further results on covariate measurement errors in cohort studies with time to response data. Pepe MS, et al. **Stat Med** 1989 Sep;8(9):1167–78; discussion 1179
Efficiency gains from the addition of controls to matched sets in cohort studies. Raboud J, et al. **Stat Med** 1989 Aug; 8(8):977–85

COIN LESION, PULMONARY

The pulmonary nodule. Zerhouni EA, et al. **Semin Ultrasound CT MR** 1988 Feb;9(1):67–78 (14 ref.)

DIAGNOSIS

Solitary uncommon pulmonary nodule in a child. Singh P, et al. **Indian J Chest Dis Allied Sci** 1989 Apr–Jun; 31(2):109–12
An integrated approach to evaluation of the solitary pulmonary nodule. Swensen SJ, et al. **Mayo Clin Proc** 1990 Feb;65(2):173–86 (79 ref.)
Sarcoidosis with pleural involvement mimicking a coin lesion. Bergström CE, et al. **Sarcoidosis** 1990 Mar;7(1):78–9
[Diagnosis of spherical shadows in the lungs] Biriukov IuV, et al. **Grud Serdechnososudistala Khir** 1990;(5):41–4 (Eng. Abstr.) (Rus)
[Comparative evaluation of invasive methods of examination of pulmonary coin lesions] Ablitsov IuA, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):48–51 (Eng. Abstr.) (Rus)

PARASITOLOGY

Pulmonary coin lesions caused by Dirofilaria immitis. Bailey TS, et al. **J Surg Oncol** 1990 Aug;44(4):268–72 (36 ref.)

PATHOLOGY

Small cell lung cancer presenting as a solitary pulmonary nodule. Quoix E, et al. **Cancer** 1990 Aug 1;66(3):577–82
Transthoracic needle aspiration biopsy in inflammatory pseudotumors of the lung. Machicao CN, et al. **Diagn Cytopathol** 1989;5(4):400–3
[The isolated pulmonary nodule. Biopsy guided by x–ray computed tomography] Bruneton JN, et al. **J Radiol** 1989; 70(4):249–51 (Eng. Abstr.) (Fre)
[Prevalence of malignancy in preoperatively undetermined solid round lesions] Wallner G, et al. **Pneumologie** 1990 Feb;44 Suppl 1:616–7 (Eng. Abstr.) (Ger)

RADIOGRAPHY

Radiologic evaluation of the solitary pulmonary nodule. Webb WR. **AJR Am J Roentgenol** 1990 Apr;154(4):701–8 (38 ref.)
The impact of thoracic computed tomography in clinically staged T1, N0, M0 chest lesions. Becker GL, et al. **Arch Intern Med** 1990 Mar;150(3):557–9
Case from the aerospace medicine resident's teaching file. 34. An aviator with a solitary pulmonary nodule [clinical conference] Rectenwald RW 2d. **Aviat Space Environ Med** 1989 Dec;60(12):1222–4
Nodular pulmonary opacities in patients with rheumatoid arthritis. A diagnostic dilemma. Jolles H, et al. **Chest** 1989 Nov;96(5):1022–5
Computerized tomographic densitometry of the solitary pulmonary nodule using a nodule phantom. Jones FA, et al. **Chest** 1989 Oct;96(4):779–83
New chest imaging methods for nodule detection and evaluation. Frank MS. **Curr Opin Radiol** 1990 Jun; 2(3):374–80 (15 ref.)
Computed tomography of the solitary pulmonary nodule and focal pulmonary disease. Templeton PA, et al. **Curr Opin Radiol** 1989 Jun;1(1):25–30 (9 ref.)
Computer–displayed eye position as a visual aid to pulmonary nodule interpretation. Kundel HL, et al. **Invest Radiol** 1990 Aug;25(8):890–6
Computer–simulated lung nodules in digital chest radiographs for detection studies. Yocky DA, et al. **Invest Radiol** 1990 Aug;25(8):902–7
Round pneumonia. Lossos IS, et al. **Isr J Med Sci** 1989 Dec; 25(12):713–4
Analysis of the solitary pulmonary nodule by means of digital techniques. Chiles C, et al. **J Thorac Imaging** 1990 Jan; 5(1):55–60
Pulmonary nodules: computer–aided detection in digital chest images. Giger ML, et al. **Radiographics** 1990 Jan; 10(1):41–51
Current evaluation of the solitary pulmonary nodule. Caskey CI, et al. **Radiol Clin North Am** 1990 May;28(3):511–20 (30 ref.)
The impact of phantom CT scanning on surgery for the solitary pulmonary nodule. Ward HB, et al. **Surgery** 1989 Oct;106(4):734–8; discussion 738–9
[CT diagnosis of pulmonary solitary nodule—a correlative study of CT, X–ray and pathology] Li TY. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Dec;23(6):346–9 (Eng. Abstr.) (Chi)
[A gastric tumor and pulmonary nodule] Bervar JF, et al. **Rev Mal Respir** 1989;6(6):559–60 (Fre)
[A comparison of digital luminescence radiography and the conventional film–screen technic in pulmonary coin lesions—a clinical study] Schwermer B, et al. **ROFO** 1990 Aug;153(2):161–6 (Eng. Abstr.) (Ger)
[Pulmonary cryptococcosis—a rare differential diagnosis of intrapulmonary coin lesions] Gaa J, et al. **Rontgenblatter** 1990 Jan;43(1):30–3 (Eng. Abstr.) (Ger)
[Pulmonary nodule detection of chest phantom with CRT images—comparison with conventional radiography (film–screen system) and FCR (Fuji Computed Radiography) hardcopy] Magota S. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Aug 25; 49(8):1038–46 (Eng. Abstr.) (Jpn)
[Pulmonary nodule confirmed by rib consolidation on thoracic computed tomography] Tsuda T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Jun;27(6):754–9 (Eng. Abstr.) (Jpn)
[2 cases of nodular pneumonia] Blachowska M, et al. **Pediatr Pol** 1989 Feb;64(2):107–11 (Pol)
[Diagnostic difficulties in patients with primary lung cancer and pulmonary tuberculosis] Danilczuk R, et al. **Pneumonol Pol** 1989 Mar;57(3):170–6 (Eng. Abstr.) (Pol)
[Difficulties in the diagnosis of primary malignant histiocytoma of the lung] Wiatr E, et al. **Pneumonol Pol** 1990 Apr–May;58(4–5):228–33 (Eng. Abstr.) (Pol)

SURGERY

Left atrial air embolism during intraoperative needle biopsy of a deep pulmonary lesion. Worth ER, et al. **Anesthesiology** 1990 Aug;73(2):342–5

Decision analysis for management of solitary pulmonary nodules [letter] Lillington GA. **Mayo Clin Proc** 1990 Jul; 65(7):1029–30

[Peripheral round lesion of the lung: diagnosis, therapy, prognosis] Eigel P, et al. **Pneumologie** 1990 Feb;44 Suppl 1:265–6 (Eng. Abstr.) (Ger)

[Results of early thoracotomy in the treatment of non-calcified solitary pulmonary nodules. Analysis of 19 cases] Saad Júnior R, et al. **AMB Rev Assoc Med Bras** 1989 Jan–Feb;35(1):23–8 (Eng. Abstr.) (Por)

[Standardization of integrated roentgenological, surgical and cytological examinations of patients with round formations in the lungs] Rodzaevskiĭ SA, et al. **Klin Khir** 1989;(10):47–8 (Rus)

COINSURANCE see DEDUCTIBLES AND COINSURANCE

COITUS

The validity of the postcoital test. Griffith CS, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):615–20

Onset of fertility-related events during adolescence: a prospective comparison of Mexican American and non-Hispanic white females. Aneshensel CS, et al. **Am J Public Health** 1990 Aug;80(8):959–63

Sexual activity after a myocardial infarction. Tardif GS. **Arch Phys Med Rehabil** 1989 Oct;70(10):763–6

Guilt reactions to sexual fantasies during intercourse. Cado S, et al. **Arch Sex Behav** 1990 Feb;19(1):49–63

Age of partners at first intercourse among Danish males and females. Wielandt H, et al. **Arch Sex Behav** 1989 Oct; 18(5):449–54

Coital urinary incontinence in an Australian population. Korda A, et al. **Asia Oceania J Obstet Gynaecol** 1989 Dec; 15(4):313–5

Connubial contact dermatitis from nifuratel. Di Prima TM, et al. **Contact Dermatitis** 1990 Feb;22(2):117–8

The sting—the annoying IUD thread [letter] Weinraub Z, et al. **Contraception** 1990 Mar;41(3):341–3

Immunological aspects of the reproductive organs and implications of intercourse. Anderson DJ, et al. **Curr Opin Immunol** 1989 Aug;1(6):1119–24 (26 ref.)

Sexual activity, condom use and AIDS awareness among adolescent males. Sonenstein FL, et al. **Fam Plann Perspect** 1989 Jul–Aug;21(4):152–8

Child sexual abuse and premarital intercourse among high-risk adolescents. Polit DF, et al. **J Adolesc Health Care** 1990 May;11(3):231–4

Sexual function among male hemiparetic post-CVA patients [letter] Habot B, et al. **J Am Geriatr Soc** 1989 Oct; 37(10):1003–4

Coital frequency and twinning. Bønnelykke B, et al. **J Biosoc Sci** 1990 Apr;22(2):191–6

Frequency of intercourse and contraceptive choice. Glor JE, et al. **J Biosoc Sci** 1990 Apr;22(2):231–7

Health behavior and urinary tract infection in college-aged women. Foxman B, et al. **J Clin Epidemiol** 1990; 43(4):329–37

Vaginal swabs: endogenous and postcoital components. Bryson CK, et al. **J Forensic Sci Soc** 1989 May–Jun; 29(3):157–71

An enzyme immunoassay for prostate-specific p30 antigen detection in the postcoital vaginal tract. Kamenev L, et al. **J Forensic Sci Soc** 1989 Jul–Aug;29(4):233–41

The effect of number of exposures on the risk of heterosexual HIV transmission. Padian NS, et al. **J Infect Dis** 1990 May; 161(5):883–7

Heterosexual transmission of HIV [news] Goldberg D. **J R Coll Gen Pract** 1989 Feb;39(319):83

Cervical intraepithelial neoplasia. The role of age at first coitus in its etiology. Edebiri AA. **J Reprod Med** 1990 Mar; 35(3):256–9

Coitus during menses. Its effect on endometriosis and pelvic inflammatory disease. Filer RB, et al. **J Reprod Med** 1989 Nov;34(11):887–90

Effective prophylaxis of recurrent urinary tract infections in premenopausal women by postcoital administration of cephalexin. Pfau A, et al. **J Urol** 1989 Nov;142(5):1276–8

Hepatitis, acquired immunodeficiency syndrome, and intercourse during menstruation [letter; comment] Brown DW. **JAMA** 1990 Jan 26;263(4):518 Comment on: **JAMA** 1989 Sep 1;262(9):1201–5.

Intercourse during menstruation among prostitutes [letter] Green ST, et al. **JAMA** 1990 Jul 18;264(3):333

Postcoital antimicrobial prophylaxis for recurrent urinary tract infection. A randomized, double-blind, placebo-controlled trial. Stapleton A, et al. **JAMA** 1990 Aug 8;264(6):703–6

First coitus before menarche and risk of sexually transmitted disease. Duncan ME, et al. **Lancet** 1990 Feb 10; 335(8685):338–40

Investigating the biocultural dimensions of human sexual behavior. Mascie-Lees FE, et al. **Med Anthropol** 1989 Jul; 11(4):367–83 (48 ref.)

Susceptibility of postmenopausal women to infection with HIV during vaginal intercourse [letter] Dwyer JM, et al. **Med J Aust** 1990 Sep 3;153(5):299

A new manifestation of seminal fluid hypersensitivity. Mike N, et al. **Q J Med** 1990 Apr;75(276):371–6

An "epidemic" model of sexual intercourse prevalences for black and white adolescents. Rowe DC, et al. **Soc Biol** 1989 Fall–Winter;36(3–4):127–45

[Sexual development and life of obese women] Daneš L, et al. **Cesk Gynekol** 1990 Apr;55(3):173–8 (Eng. Abstr.) (Cze)

[Fibrosis of the cavernous body caused by inveterate rupture of the penis] Pachman A, et al. **Wiad Lek** 1989 Feb 1; 42(3):184–7 (Eng. Abstr.) (Pol)

PHYSIOLOGY

Female ejaculation: perceived origins, the Grafenberg spot/area, and sexual responsiveness. Darling CA, et al. **Arch Sex Behav** 1990 Feb;19(1):29–47

Return of sexual functioning following penile replant surgery. Szasz G, et al. **Arch Sex Behav** 1990 Aug;19(4):343–8

Exertional headaches with multiple triggers. Katchen MS. **Aviat Space Environ Med** 1990 Jan;61(1):49–51

Persistent segmental cerebral artery constrictions in coital cephalgia [letter] Kapoor R, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):266–7

PSYCHOLOGY

Sexual activity and the postcoronary patient. Hellerstein HK, et al. **Arch Intern Med** 1970 Jun;125(6):987–99

COITUS INTERRUPTUS

[Scrotal and perineal pain following coitus interruptus] Arruza A, et al. **Arch Esp Urol** 1990 May;43(4):408 (Eng. Abstr.) (Spa)

COKE see under COAL

COLCHICINE

The carboxy terminus of the alpha subunit of tubulin regulates its interaction with colchicine. Mukhopadhyay K, et al. **Biochemistry** 1990 Jul 24;29(29):6845–50

Neurotoxic lesions of the nucleus basalis induced by colchicine: effects on spatial navigation in the water maze. Mundy WR, et al. **Brain Res** 1990 Apr 2;512(2):221–8

aS,7S-absolute configuration of natural (–)-colchicine and allo-congeners. Brossi A, et al. **FEBS Lett** 1990 Mar 12; 262(1):5–7

Large-scale purification of bovine brain lactate dehydrogenase by affinity chromatography on immobilized colchicine. Kocha T, et al. **J Biochem (Tokyo)** 1990 Jan; 107(1):138–43

[Characteristics of crossed resistance of neoplastic cells with high level of colchicine resistance] Abdriashitov RI, et al. **Biull Eksp Biol Med** 1989 Oct;108(10):490–2 (Eng. Abstr.) (Rus)

[Changes in amino acid metabolism at the onset of colchicine resistance in Dzungarian hamster fibroblast cell culture] Moroz LV, et al. **Biull Eksp Biol Med** 1989 Oct; 108(10):484–6 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

The effects of glycerol on vestibular function and the endolymphatic sac after pre-treatment with colchicine. Takumida M, et al. **Acta Otolaryngol Suppl (Stockh)** 1989; 468:59–63

Continuous delivery of colchicine in the rat brain with osmotic pumps for inhibition of rabies virus transport. Ceccaldi PE, et al. **J Virol Methods** 1990 Apr;28(1):79–83

ADVERSE EFFECTS

Is myopathy in renal transplant patients induced by cyclosporin or colchicine? [letter; comment] Rumpf KW, et al. **Lancet** 1990 Mar 31;335(8692):800–1 Comment on: Lancet 1990 Jan 20;335(8682):177.

Colchicine neuromyopathy after renal transplantation. Rieger EH, et al. **Transplantation** 1990 Jun;49(6):1196–8

[Colchicine in the first trimester of pregnancy and vertebral malformations (letter)] Dudin A, et al. **Arch Fr Pediatr** 1989 Oct;46(8):627–8 (Fre)

ANALOGS & DERIVATIVES

Structures of colchicine analogues. I. Allocolchicine. Mackay MF, et al. **Acta Crystallogr C** 1989 May 15;45 (Pt 5):795–9

Binding of colchiceine to tubulin. Mechanisms of ligand association with tubulin. Hastie SB, et al. **Biochem Pharmacol** 1990 Apr 15;39(8):1271–6

Effect of tubulin binding and self-association on the near-ultraviolet circular dichroic spectra of colchicine and analogues. Chabin RM, et al. **Biochemistry** 1990 Feb 20; 29(7):1869–75

Photoaffinity labeling of tubulin with (2-nitro-4-azidophenyl)deacetylcolchicine: direct evidence for two colchicine binding sites. Floyd LJ, et al. **Biochemistry** 1989 Oct 17;28(21):8515–25

N-acetylcolchinol O-methyl ether and thiocolchicine, potent analogs of colchicine modified in the C ring. Evaluation of the mechanistic basis for their enhanced biological properties. Kang GJ, et al. **J Biol Chem** 1990 Jun 25; 265(18):10255–9

Determination of the antimitotic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine. Ko RJ, et al. **J Chromatogr** 1990 Feb 23;525(2):411–8

Evidence that plasma membrane fluidity of isolated hepatocytes is modified by exposure to microtubule-depolymerizing drugs. Benedetti A, et al. **J Hepatol** 1990 Mar;10(2):144–8

Alfred Burger award address. Bioactive alkaloids. 4. Results of recent investigations with colchicine and physostigmine. Brossi A. **J Med Chem** 1990 Sep;33(9):2311–9 (70 ref.)

Antitubulin effects of derivatives of 3-demethylthiocolchicine, methylthio ethers of natural colchicinoids, and thioketones derived from thiocolchicine. Comparison with colchicinoids. Muzaffar A, et al. **J Med Chem** 1990 Feb;33(2):567–71

Protective effect of colchiceine against acute liver damage. Mourelle M, et al. **Life Sci** 1989;45(10):891–900

Gout medication analogue being tested against advanced solid tumors [news] **Oncology (Williston Park)** 1988 May; 2(5):12

[Evaluation of thiocolchicoside as monotherapy in low back pain. Results of a randomized study versus placebo] Marcel C, et al. **Presse Med** 1990 Jun 16;19(24):1133–6 (Eng. Abstr.) (Fre)

ANALYSIS

Determination of the antimitotic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine. Ko RJ, et al. **J Chromatogr** 1990 Feb 23;525(2):411–8

HISTORY

[The centennial of the discovery of the antimitotic properties of colchicine] Dustin P. **Rev Med Brux** 1989 Nov; 10(9):385–90 (Eng. Abstr.) (Fre)

METABOLISM

Effect of tubulin binding and self-association on the near-ultraviolet circular dichroic spectra of colchicine and analogues. Chabin RM, et al. **Biochemistry** 1990 Feb 20; 29(7):1869–75

Photoaffinity labeling of tubulin with (2-nitro-4-azidophenyl)deacetylcolchicine: direct evidence for two colchicine binding sites. Floyd LJ, et al. **Biochemistry** 1989 Oct 17;28(21):8515–25

Antimitotic natural products combretastatin A-4 and combretastatin A-2: studies on the mechanism of their inhibition of the binding of colchicine to tubulin. Lin CM, et al. **Biochemistry** 1989 Aug 22;28(17):6984–91

Colchicine binding in the free-living nematode Caenorhabditis elegans. Russell GJ, et al. **Biochim Biophys Acta** 1989 Dec 8;993(2–3):233–9

N-acetylcolchinol O-methyl ether and thiocolchicine, potent analogs of colchicine modified in the C ring. Evaluation of the mechanistic basis for their enhanced biological properties. Kang GJ, et al. **J Biol Chem** 1990 Jun 25; 265(18):10255–9

Immunocytochemical localization of angiotensinogen and cathepsins B, H, and L in rat hepatocytes, with special reference to degradation of angiotensinogen in lysosomes after colchicine. Watanabe T, et al. **J Histochem Cytochem** 1989 Dec;37(12):1899–911

PHARMACOKINETICS

Spectroscopic and kinetic features of allocolchicine binding to tubulin. Hastie SB. **Biochemistry** 1989 Sep 19; 28(19):7753–60

Zero-order absorption and linear disposition of oral colchicine in healthy volunteers. Thomas G, et al. **Eur J Clin Pharmacol** 1989;37(1):79–84

Pharmacokinetics/bioavailability of colchicine in healthy male volunteers. Achtert G, et al. **Eur J Drug Metab Pharmacokinet** 1989 Oct–Dec; 14(4):317–22

Uptake of [3H]colchicine from silastic implants by mammalian nerves and muscles. Kauffman FC, et al. **Exp Neurol** 1974 Sep;44(3):404–16

Model-independent pharmacokinetics of colchicine after oral administration to healthy volunteers. Girre C, et al. **Fundam Clin Pharmacol** 1989;3(5):537–43

The effect of liver dysfunction on colchicine pharmacokinetics in the rat. Leighton JA, et al. **Hepatology** 1990 Feb;11(2):210–5

PHARMACOLOGY

Colchicine-induced inhibition of fat globule development in hepatocytes of rats injected with ethionine. Nishimura T, et al. **Acta Pathol Jpn** 1989 May;39(5):281–8

Urine retention induced in rats by intra-spinal cord injection of colchicine as a tool to find new pharmacological treatments. Baraldi M, et al. **Acta Physiol Hung** 1990;75 Suppl:23–4

Colchicine inhibits the effects of secretin on pancreatic duct cell tubulovesicles and HCO3- secretion in the pig. Veel T, et al. **Acta Physiol Scand** 1990 Apr;138(4):487–95

Effects of adenosine on neutrophil polarization induced by N-formyl-methionyl-leucyl-phenylalanine, sodium propionate and colchicine. Iannone MA, et al. **Agents Actions** 1989 Jun;27(3–4):403–6

Effect of colchicine on the clearance of ferritin in vivo.

Ramm GA, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G707–13

Colchicine–induced alterations of reference memory in rats: role of spatial versus non–spatial task components. Nanry KP, et al. **Behav Brain Res** 1989 Oct 1;35(1):45–53

Concanavalin A affects beta–tubulin mRNA expression during neuritic processes of mouse neuroblastoma N18TG2 cells in a different manner from colchicine. Katayama N, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1348–54

Effect of trifluoperazine and colchicine on smooth muscle cellular proliferative and secretory activity induced by hypercholesterolemic medium in vitro. Mehta UM, et al. **Biochem Int** 1990;21(1):107–16

Differential effects of leupeptin, monensin and colchicine on ligand degradation mediated by the two asialoglycoprotein receptor pathways in isolated rat hepatocytes. Clarke BL, et al. **Biochem J** 1989 Aug 15;262(1):277–84

Effect of colchicine and vincristine on DNA synthesis in regenerating rat liver. Tsukamoto I, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):191–3

In vitro effects of colchicine and nocodazole on ciliogenesis in quail oviduct. Boisvieux–Ulrich E, et al. **Biol Cell** 1989; 67(1):67–79

Colchicine lesions of ventral, but not dorsal, dentate granule cells attenuate wet dog shakes elicited by perforant path stimulation. Barnes MI, et al. **Brain Res** 1990 Mar 26; 512(1):159–63

Effect of optic nerve lesions and intraocular colchicine on cell proliferation in the germinal zone of the optic tectum and in the torus longitudinalis in the goldfish. Davis RE. **Brain Res** 1990 Mar 26;512(1):46–53

Intrafimbrial colchicine produces transient impairment of radial–arm maze performance correlated with morphologic abnormalities of septohippocampal neurons expressing cholinergic markers and nerve growth factor receptor. Di Patre PL, et al. **Brain Res** 1990 Jul 23;523(2):316–20

Colchicine prevents recovery of nerve conduction at chronic demyelination. Liverant S, et al. **Brain Res** 1990 Jun 11; 519(1–2):50–6

Effects of colchicine on hexokinase activity in the paraventricular and supraoptic nuclei of spontaneously hypertensive and normotensive rats. Krukoff TL, et al. **Brain Res Bull** 1989 Jul–Aug;23(1–2):47–51

Effect of colchicine on the intracellular transport of secretory proteins in rat liver parenchymal cells. Immunocytochemical observations. Yokota S. **Cell Struct Funct** 1989 Oct;14(5):545–59

The maintenance of colchicine–arrested metaphases in plants requires protein synthesis. Sans J, et al. **Cell Tissue Kinet** 1989 Jul;22(4):319–31

Influence of colchicine on the addition of a sugar to the enamel protein in secretory ameloblasts of cultured germs of rat molar tooth by 3H–galactose radioautography. Matsuo S, et al. **Cell Tissue Res** 1990 May;260(3):521–8

Effect of colchicine on lysosomal structures in maturation–ameloblasts of the rat incisor. Salama AH, et al. **Cell Tissue Res** 1990 May;260(3):565–73

Mechanism of action of colchicine. VI: Effect of colchicine on generation of leukotriene B4 by human polymorphonuclear leukocytes. Ouyang Y, et al. **Clin Exp Rheumatol** 1989 Jul–Aug;7(4):397–402

Microtubular response to colchicine in adult and fetal rat hepatocytes. Kaufman SS, et al. **Comp Biochem Physiol [A]** 1990;95(2):281–90

Effects of colchicine treatment on the cholinergic septohippocampal system. Represa A, et al. **Experientia Suppl** 1989;57:288–94

Effect of colchicine and pilocarpine on the secretory activity of rat type II alveolar cells: an ultrastructural study. Pokrovskaya MS, et al. **Folia Morphol (Praha)** 1989; 37(4):351–5

In vivo prevention and reversal by the antimitotic colchicine and other related compounds of some porphyrinogenic drug action on heme pathway. Afonso SG, et al. **Gen Pharmacol** 1990;21(4):423–6

Effect of colchicine on lymphocyte and monocyte function and its relation to fibroblast proliferation in primary biliary cirrhosis. Kershenobich D, et al. **Hepatology** 1990 Feb; 11(2):205–9

Organelle distribution in chick neuroepithelial cells: effects of colchicine and cytochalasin B. Fernández Alvarez JG, et al. **Int J Dev Biol** 1989 Jun;33(2):317–23

RPE–mediated collagen gel contraction. Inhibition by colchicine and stimulation by TGF–beta. Raymond MC, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1079–86

Disruption of cytoskeletal structures results in the induction of the urokinase–type plasminogen activator gene expression. Botteri FM, et al. **J Biol Chem** 1990 Aug 5; 265(22):13327–34

The surface activity of the same subpopulation of galactosyl receptors on isolated rat hepatocytes is modulated by colchicine, monensin, ATP depletion, and chloroquine. McAbee DD, et al. **J Biol Chem** 1990 Jan 15;265(2):629–35

Evidence that plasma membrane fluidity of isolated hepatocytes is modified by exposure to microtubule–depolymerizing drugs. Benedetti A, et al. **J Hepatol** 1990 Mar;10(2):144–8

Cytochemical localization of calcium and Ca2+,Mg2(+)–adenosine triphosphatase in colchicine–altered rat incisor ameloblasts. Eisenmann DR, et al. **J Histochem Cytochem** 1990 Oct;38(10):1469–78

Effects of inhibitors of protein synthesis and intracellular transport on the gamma–aminobutyric acid agonist–induced functional differentiation of cultured cerebellar granule cells. Belhage B, et al. **J Neurochem** 1990 Oct;55(4):1107–13

Inhibition of the transport of rabies virus in the central nervous system. Ceccaldi PE, et al. **J Neuropathol Exp Neurol** 1989 Nov;48(6):620–30

System approach to the transepithelial transport across rat jejunal enterocytes: effect of cytochalasin B, colchicine, and ethylenediaminetetraacetic acid on butyric acid transport. Kreydiyyeh SI, et al. **J Pharm Sci** 1990 Jun; 79(6):494–9

Further evidence for the origin of circulating calcitonin gene–related peptide in the rat. Emson PC, et al. **J Physiol (Lond)** 1989 May;412:297–308

Cytoplasmic microtubules in human neutrophil degranulation: reversible inhibition by the colchicine analogue 2–methoxy–5–(2',3',4'–trimethoxyphenyl)–2,4,6–cycloheptatrien–1– one. Mollinedo F, et al. **Mol Pharmacol** 1989 Oct;36(4):547–55

Short–term administration of colchicine to haemodialysis patients: plasma beta–2–microglobulin and phagocyte oxidative response. Ureña P, et al. **Nephron** 1990; 55(3):348–50

Selective axonal transport in a single cholinergic axon of Aplysia—role of colchicine–resistant microtubules. Koike H, et al. **Neuroscience** 1989;32(2):539–55

Dissociation between changes in glutamate receptor binding sites and their coupling to phosphatidylinositol metabolism following intrahippocampal colchicine injection. Nakagawa Y, et al. **Neuroscience** 1989;32(2):363–9

Distribution of nerve growth factor receptor–like immunoreactivity in the adult rat central nervous system. Effect of colchicine and correlation with the cholinergic system—I. Forebrain. Pioro EP, et al. **Neuroscience** 1990; 34(1):57–87

Distribution of nerve growth factor receptor–like immunoreactivity in the adult rat central nervous system. Effect of colchicine and correlation with the cholinergic system—II. Brainstem, cerebellum and spinal cord. Pioro EP, et al. **Neuroscience** 1990;34(1):89–110

Molecular basis of preferential resistance to colchicine in multidrug–resistant human cells conferred by Gly–185——Val–185 substitution in P–glycoprotein. Safa AR, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7225–9

Potentiation of colchicine–induced collagenolysis. Labandter H, et al. **Surg Forum** 1978;29:592–4

Influence of antimicrotubular drugs on the Golgi apparatus of stomach secretory mucoid cells and small intestine absorptive cells. Sterle M, et al. **Virchows Arch [B]** 1990; 58(4):317–22

[Effect of alloxans on pancreatic B–cells with special regard to the alloxan–metal–complex theory. I. Effects of alloxan, alloxan–zinc chelates, dilauric acid and colchicine on blood sugar and rate of mitosis of B–cell Langerhans islets] Schmidt R, et al. **Acta Histochem (Jena)** 1990;88(1):29–46 (Eng. Abstr.) **(Ger)**

[Normalization of the phenotype of transformed Djungarian hamster cells during selection for colchicine resistance] Abdriashitov RI, et al. **Eksp Onkol** 1989;11(5):26–30 (Eng. Abstr.) **(Rus)**

[The effect of colchicine and its derivatives on the activity of enzyme markers of T–lymphocytes] Mikulíková D, et al. **Cas Lek Cesk** 1989 Aug 25;128(35):1094–7 (Eng. Abstr.) **(Slo)**

POISONING

Accidental overdose of insufflated colchicine. Baldwin LR, et al. **Drug Saf** 1990 Jul–Aug;5(4):305–12

Fatal colchicine overdose. Garden AL, et al. **N Z Med J** 1990 Aug 22;103(896):402

Colchicine cardiotoxicity following ingestion of Gloriosa superba tubers. Mendis S. **Postgrad Med J** 1989 Oct; 65(768):752–5 (26 ref.)

Influence of goat colchicine specific antibodies on murine colchicine disposition. Terrien N, et al. **Toxicology** 1989 Nov;59(1):11–22

Colchicine toxicity: a case report. Wells SR, et al. **Vet Hum Toxicol** 1989 Aug;31(4):313–6

[Multi–organ failure caused by colchicine poisoning] Schut NH, et al. **Ned Tijdschr Geneeskd** 1990 Aug 4; 134(31):1508–10 (Eng. Abstr.) **(Dut)**

[Acute colchicine poisoning. Value of intra–erythrocyte assay (letter)] Vehier–Mounier C, et al. **Presse Med** 1989 Oct 28;18(35):1755 **(Fre)**

[Meadow saffron (Colchicum autumnale) in hay and colic in horses] Kamphues J, et al. **Tierarztl Prax** 1990 Jun; 18(3):273–5 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Prevention of myelinolysis in rats by dexamethasone or colchicine. Oh MS, et al. **Am J Nephrol** 1990;10(2):158–61

A controlled trial of colchicine to reduce the elastase load in the lungs of cigarette smokers with chronic obstructive pulmonary disease. Cohen AB, et al. **Am Rev Respir Dis** 1990 Jul;142(1):63–72

Amyloidosis in rheumatic diseases [letter; comment] Barash J. **Ann Rheum Dis** 1990 May;49(5):337 Comment on: Ann Rheum Dis 1989 Aug;48(8):696–701.

Colchicine and leukocytoclastic vasculitis [letter] Piotnick S, et al. **Arthritis Rheum** 1989 Nov;32(11):1489–90

Old drugs with new uses. Colchicine for treatment of recurrent pericarditis [editorial; comment] Adolph RJ. **Circulation** 1990 Oct;82(4):1505–6 Comment on: Circulation 1990 Oct;82(4):1117–20.

Recurrent pericarditis. Relief with colchicine [see comments] Guindo J, et al. **Circulation** 1990 Oct;82(4):1117–20 Comment in: Circulation 1990 Oct;82(4):1505–6.

Erythema elevatum diutinum—a case successfully treated with colchicine. Henriksson R, et al. **Clin Exp Dermatol** 1989 Nov;14(6):451–3

Colchicine therapy in Behçet's syndrome—a report of five cases. Muzulu SI, et al. **Clin Exp Dermatol** 1989 Jul; 14(4):298–9

Disappearance of cryoglobulinemia with improvement in other immune parameters in a case of primary biliary cirrhosis treated with colchicine [letter] Delpré G, et al. **Gastroenterol Clin Biol** 1990;14(2):182–3

Failure of colchicine to improve short–term survival in patients with alcoholic hepatitis. Akriviadis EA, et al. **Gastroenterology** 1990 Sep;99(3):811–8

A clinical and immunologic study of colchicine in asthma. Schwarz YA, et al. **J Allergy Clin Immunol** 1990 Mar; 85(3):578–82

Long–term colchicine prophylaxis in children with familial Mediterranean fever (recurrent hereditary polyserositis). Majeed HA, et al. **J Pediatr** 1990 Jun;116(6):997–9

Colchicine therapy in primary amyloidosis of the bladder: a case report. Livingstone RR, et al. **J Urol** 1989 Dec; 142(6):1570–1

[Treatment of intervertebral disk displacement with colchicine] Mu ZY. **Chung Hua Wai Ko Tsa Chih** 1989 Dec;27(12):768–9 (18 ref.) **(Chi)**

[Colchicine in the treatment of cirrhosis of the liver (editorial)] Scapa E, et al. **Harefuah** 1989 Dec 1; 117(11):409–10 **(Heb)**

[Treatment of Behçet's syndrome with colchicine] Pacor ML, et al. **Riv Eur Sci Med Farmacol** 1989 Jun;11(3):257–61 (Eng. Abstr.) **(Ita)**

[The evaluation of colchicine treatment in certain forms of moderately active chronic hepatitis] Geavlete A, et al. **Rev Med Interna [Med Interna]** 1989 May–Jun;41(3):283–7 **(Rum)**

[The possibilities of using colchicine in rheumatoid arthritis and amyloidosis] Chegaeva TV, et al. **Ter Arkh** 1990; 62(5):120–4 **(Rus)**

[Efficacy of colchicine therapy in patients with periodic disease and amyloidosis according to repeated biopsies of the rectal mucosa] Serov VV, et al. **Ter Arkh** 1989; 61(6):38–45 (Eng. Abstr.) **(Rus)**

TOXICITY

Cholinergic cell loss and cognitive impairments following intraventricular or intradentate injection of colchicine. Emerich DF, et al. **Brain Res** 1990 May 28;517(1–2):157–67

Induction of micronuclei by mitomycin C and colchicine in the marine mussel Mytilus galloprovincialis. Majone F, et al. **Mutat Res** 1990 Jun;244(2):147–51

Comparison of colchicine toxicity on different dysmyelinating mutant models. Urtizberea M, et al. **Neurotoxicology** 1989 Summer;10(2):211–7

Reversal of advanced colchicine toxicity in mice with goat colchicine–specific antibodies. Terrien N, et al. **Toxicol Appl Pharmacol** 1990 Jul;104(3):504–10

COLCHICUM see under **PLANTS, MEDICINAL**

COLD

see related
CRYOSURGERY
FROSTBITE
HYPOTHERMIA
HYPOTHERMIA, INDUCED
REFRIGERATION
SHIVERING
TRENCH FOOT

Human epidermal Langerhans' cells are sensitive to rapid cooling by ethyl chloride. Warfvinge K, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):436–8

Cold stress during scotophase elicited differential responses in quail pineal, retinal, and serum melatonin levels. Lee PP, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):535–9

Influence of environmental temperature and photoperiod on temporal structure of sleep in corvids. Szymczak JT. **Acta Neurobiol Exp (Warsz)** 1989;49(6):359–66

An internally cooled saw blade for bone cuts. Lower temperatures in 30 knee arthroplasties. Toksvig–Larsen S, et al. **Acta Orthop Scand** 1990 Aug;61(4):321–3

Comparison between the effects of tetrodotoxin and of cooling on guinea–pig ileum contractions induced by various agents. Gaion RM, et al. **Acta Physiol Hung** 1990; 75 Suppl:121–2

Influence of the temperature on hypoxanthine transport through human erythrocyte membranes. Salerno C, et al. **Adv Exp Med Biol** 1989;253B:539–42

The golden hour in heat stroke: use of iced peritoneal lavage. Horowitz BZ. **Am J Emerg Med** 1989 Nov;7(6):616–9

Effectiveness of the cryosupernatant fraction of plasma in the treatment of refractory thrombotic thrombocytopenic purpura. Byrnes JJ, et al. **Am J Hematol** 1990 Jul; 34(3):169–74

Hypertonic cryohemolysis: a diagnostic test for hereditary spherocytosis. Streichman S, et al. **Am J Hematol** 1990 Oct;35(2):104–9

Acute effects of exposure to cold on blood pressure, platelet function and sympathetic nervous activity in humans. Kawahara J, et al. **Am J Hypertens** 1989 Sep;2(9):724–6

Epidemiology of symptomatic hypotension in hemodialysis: is cool dialysate beneficial for all patients? Orofino L, et al. **Am J Nephrol** 1990;10(3):177–80

Influence of taxol on the response of platelets to chilling. White JG. **Am J Pathol** 1982 Aug;108(2):184–95

Diazepam inhibits stimulating effect of cooling preoptic area on antibody production. Banet M, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R393–7

Increase in cytochrome oxidase capacity of BAT and other tissues in cold-acclimated gerbils. Bourhim M, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1291–8

Muscle temperature of mammals: cooling impairs most functional properties. Faulkner JA, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):R259–65

Rapid cooling contractures as an index of sarcoplasmic reticulum calcium content in rabbit ventricular myocytes. Hryshko LV, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1369–77

Short photoperiod and cold activate brown fat lipoprotein lipase in the Djungarian hamster. Klingenspor M, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1123–7

Regulation of glycolysis in the pectoralis muscles of seasonally acclimatized American goldfinches exposed to cold. Marsh RL, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):R711–7

Neuronal regulation of substrate cycle between glucose 6-phosphate and glucose in brown adipose tissues of cold-exposed mice. Suzuki H, et al. **Anat Rec** 1990 Mar; 226(3):314–9

Effect of precooling on heat tolerance of resting men in a hot environment: comparison with seasonal effect on it. Iwanaga K, et al. **Ann Physiol Anthropol** 1989 Jul; 8(3):151–4

Effect of ceramic-coated clothing on forearm blood flow during exercise in a cool environment. Katsuura T, et al. **Ann Physiol Anthropol** 1989 Jan;8(1):53–5

Effects of head cooling on circadian variations of thermoregulatory responses in man. Okada A, et al. **Ann Physiol Anthropol** 1989 Jul;8(3):165–7

Effects of repeated cold exposures on thermal responses of man. Tochihara Y, et al. **Ann Physiol Anthropol** 1989 Jul; 8(3):169–71

Influence of muscle cooling on the viscoelastic response of the human ankle to sinusoidal displacements. Price R, et al. **Arch Phys Med Rehabil** 1990 Sep;71(10):745–8

Arctic adaptation in whale hemoglobin: interplay of carbon dioxide and temperature in the oxygen unloading. Giardina B, et al. **Arctic Med Res** 1990 Apr;49(2):93–7

Some endocrine responses to sauna, shower and ice water immersion. Kauppinen K, et al. **Arctic Med Res** 1989 Jul; 48(3):131–9

Glycoprotein specificity of cold-reactive IgM antilymphocyte autoantibodies in systemic lupus erythematosus. Mimura T, et al. **Arthritis Rheum** 1990 Aug; 33(8):1226–32

Influence of attitude and expectation on moods and symptoms during cold weather military training. Johnson RF, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1157–62

Insidious hypothermia during raft use. Kaufman JW, et al. **Aviat Space Environ Med** 1990 Jun;61(6):569–75

Heat loss caused by immersing the hands in water. Livingstone SD, et al. **Aviat Space Environ Med** 1989 Dec; 60(12):1166–71

Influence of clothing and body-fat insulation on thermal adjustments to cold-water stress. Toner MM, et al. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 1):957–63

Moderate cold exposure shortens evoked potential latencies in humans. Van Orden KF, et al. **Aviat Space Environ Med** 1990 Jul;61(7):636–9

Raised plasma endothelin-I concentration following cold pressor test. Fyhrquist F, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):217–21

Decrease of oxidative activities in brown adipose tissue mitochondria of cold acclimated rats on short term exposure to heat stress. Gaikwad AS, et al. **Biochim Biophys Acta** 1990 Jun 26;1017(3):242–50

Effects of exercise stress and cold stress on glutathione and gamma-glutamyltransferase in rat liver. Ohno H, et al. **Biochim Biophys Acta** 1990 Jan 29;1033(1):19–22

Wild mice in the cold: some findings on adaptation. Barnett SA, et al. **Biol Rev Camb Philos Soc** 1989 Nov;64(4):317–40 (117 ref.)

Housing and health: Temperature and humidity [see comments] Lowry S. **BMJ** 1989 Nov 25;299(6711):1326–8 Comment in: BMJ 1990 Jan 6;300(6716):45–6.

The effect of a low-protein diet and a cold environment on calorie intake and body composition in the rat. Schmidt P, et al. **Br J Nutr** 1967;21(2):457–65

Influence of mild cold on 24 h energy expenditure in 'normally' clothed adults. Warwick PM, et al. **Br J Nutr** 1990 May;63(3):481–8

Influence of two beta-adrenoceptor antagonists, propranolol and pindolol, on cold adaptation in the rat. Kortelainen ML, et al. **Br J Pharmacol** 1990 Apr;99(4):673–8

Modulation of the reactivity of the guinea-pig isolated trachealis by respiratory epithelium: effects of cooling. Lamport SJ, et al. **Br J Pharmacol** 1990 Feb;99(2):369–73

Regeneration of cold, warmth and heat-pain sensibility in human skin grafts. Waris T, et al. **Br J Plast Surg** 1989 Sep;42(5):576–80

Release of cold-induced burning pain by block of cold-specific afferent input. Yarnitsky D, et al. **Brain** 1990 Aug;113 (Pt 4):893–902

Paradoxical effect of hypothermia on survival of lesioned and uninjured mammalian spinal neurons. Lucas JH, et al. **Brain Res** 1990 May 28;517(1–2):354–7

Antinociception in the rat induced by a cold environment. Osgood PF, et al. **Brain Res** 1990 Jan 15;507(1):11–6

Effects of cooling parietal cortex on prefrontal units in delay tasks. Quintana J, et al. **Brain Res** 1989 Nov 27; 503(1):100–10

Analysis of avian cold receptor function. Schäfer K, et al. **Brain Res** 1989 Oct 30;501(1):66–72

Do adenosine antagonists improve cold tolerance by reducing hypothalamic adenosine activity in rats? Wang XL, et al. **Brain Res Bull** 1990 Mar;24(3):389–93

Isolation of a rat adrenal cDNA clone encoding phenylethanolamine N-methyltransferase and cold-induced alterations in adrenal PNMT mRNA and protein. Weisberg EP, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2–3):159–66

Reversibility of cold-induced hypertension after removal of rats from cold. Shechtman O, et al. **Can J Physiol Pharmacol** 1990 Jul;68(7):830–5

Cold-sensitive responses in the Paramecium membrane. Inoue T, et al. **Cell Struct Funct** 1990 Apr;15(2):107–12

Cold agglutinins: specificity, idiotypy and structural analysis. Silverman GJ, et al. **Chem Immunol** 1990;48:109–25 (63 ref.)

The effect of sympathetic blockade and cooling in Raynaud's phenomenon. Engelhart M. **Clin Physiol** 1990 Mar; 10(2):131–6

Sympathetic activation during the cold pressor test: influence of stimulus area. Seals DR. **Clin Physiol** 1990 Mar; 10(2):123–9

The initial responses to cold-water immersion in man. Tipton MJ. **Clin Sci** 1989 Dec;77(6):581–8 (89 ref.)

Effects of inhibition of thyroid function and of cold on melatonin synthesis and porphyrin content in the Harderian glands of male Syrian hamsters, Mesocricetus auratus. Buzzell GR, et al. **Comp Biochem Physiol [A]** 1989; 94(3):427–9

Comparative metabolic responses to prolonged cooling in precocial duck (Anas domestica) and altricial pigeon (Columba domestica) embryos. Kuroda O, et al. **Comp Biochem Physiol [A]** 1990;95(3):407–10

Effects of cooling on smooth muscle contraction. Nasu T. **Comp Biochem Physiol [A]** 1990;95(2):201–7 (66 ref.)

Effects of acute cold exposure at night on pineal N-acetyltransferase activity and melatonin content in white-footed mice, Peromyscus leucopus. Tannenbaum MG, et al. **Comp Biochem Physiol [A]** 1990;95(3):363–6

Hypothermic perfusion of rabbit livers: effect of perfusate composition (Ca and lactobionate) on enzyme release and tissue swelling. Lindell S, et al. **Cryobiology** 1989 Oct; 26(5):407–12

Hypothermic preservation of hepatocytes. I. Role of cell swelling. Marsh DC, et al. **Cryobiology** 1989 Dec; 26(6):524–34

Cultured Chinese hamster cells undergo apoptosis after exposure to cold but nonfreezing temperatures. Nagle WA, et al. **Cryobiology** 1990 Aug;27(4):439–51

Factors influencing survival of mammalian cells exposed to hypothermia. IV. Effects of iron chelation. Zieger MA, et al. **Cryobiology** 1990 Aug;27(4):452–64

Role of oxyradicals in cold water immersion restraint-induced gastric mucosal injury in the rat. Tarnasky PR, et al. **Dig Dis Sci** 1990 Feb;35(2):173–7

The role of insulin in norepinephrine turnover and thermogenesis in brown adipose tissue after acute cold-exposure. Yoshioka K, et al. **Endocrinol Jpn** 1989 Aug;36(4):491–9

Inhibition of 5'-deiodination of thyroxine suppresses the cold-induced increase in brown adipose tissue messenger ribonucleic acid for mitochondrial uncoupling protein without influencing lipoprotein lipase activity. Reiter RJ, et al. **Endocrinology** 1990 May;126(5):2550–4

Cytochemical studies of responses of corticotropes and thyrotropes to cold and novel environment stress. Sasaki F, et al. **Endocrinology** 1990 Jul;127(1):285–97

Pulmonary function in normal subjects following exercise at cold ambient temperatures. Chapman KR, et al. **Eur J Appl Physiol** 1990;60(3):228–32

Thermoregulatory responses to exercise at low ambient temperature performed after precooling or preheating procedures. Kruk B, et al. **Eur J Appl Physiol** 1990; 59(6):416–20

Finger and forearm vasodilatatory changes after local cold acclimation. Leftheriotis G, et al. **Eur J Appl Physiol** 1990; 60(1):49–53

Complex actions of serotonergic agonists on cold-stimulated TSH secretion in male rats. Toivonen M, et al. **Eur J Pharmacol** 1990 May 3;180(1):91–102

Abnormal centrosomes in cold-treated Drosophila embryos. Callaini G, et al. **Exp Cell Res** 1989 Oct;184(2):367–74

Effects of cold shock treatment on lampbrush chromosomes of amphibian oocytes. N'Da E, et al. **Exp Cell Res** 1990 Jul;189(1):118–32

Physiological state of the rabbit cornea following 4 degrees C moist chamber storage. Doughty MJ. **Exp Eye Res** 1989 Nov;49(5):807–27

The influence of cold or isolation stress on resistance of mice to West Nile virus encephalitis. Ben-Nathan D, et al. **Experientia** 1990 Mar 15;46(3):285–90

Calcium-dependent DNA fragmentation in human synovial cells exposed to cold shock. Perotti M, et al. **FEBS Lett** 1990 Jan 1;259(2):331–4

Transient cooling to room temperature can cause irreversible disruption of the meiotic spindle in the human oocyte. Pickering SJ, et al. **Fertil Steril** 1990 Jul;54(1):102–8

Inheritance of cold shock tolerance in hybrids of Drosophila virilis and Drosophila lummei. Heino R, et al. **Genetica** 1989;79(1):17–25

Hypothermia protects the cochlea from noise damage. Henry KR, et al. **Hear Res** 1984 Dec;16(3):225–30

Cardiovascular reactivity to the cold pressor test as a predictor of hypertension. Menkes MS, et al. **Hypertension** 1989 Nov;14(5):524–30

Effect of post-hypoxic acclimatization on extremity temperature during exposure to acute cold stress in man. Nair CS, et al. **Indian J Med Res** 1989 Oct;90:341–5

Certain immunological parameters in subacute cold stress. Sundaresan G, et al. **Indian J Physiol Pharmacol** 1990 Jan; 34(1):57–60

Washout of the pig liver with Haemaccel after hypothermic preservation. Arias J, et al. **Int Surg** 1990 Apr-Jun; 75(2):78–83

Conductive and convective heat flows of exercising humans in cold water. Ferretti G, et al. **J Appl Physiol** 1989 Dec; 67(6):2473–80

Free fatty acid availability and temperature regulation in cold water. Martineau L, et al. **J Appl Physiol** 1989 Dec; 67(6):2466–72

Metabolic effects of exposure to hypoxia plus cold at rest and during exercise in humans [published errata appear in J Appl Physiol 1990 May;68(5):preceding 1777 and 1990 Jun;68(6):following 2701] Robinson KA, et al. **J Appl Physiol** 1990 Feb;68(2):720–5

Neural regulation of vascular tone and cold induced vasoconstriction in human finger skin. Lindblad LE, et al. **J Auton Nerv Syst** 1990 Jun;30(2):169–73

Effect of moderate cooling on endogenous noradrenaline release from the mesenteric vasculature of rats. Yamamoto R, et al. **J Auton Pharmacol** 1989 Oct;9(5):347–55

Effects of low-dose nifedipine on a cold provocation test in patients with Raynaud's disease. Weber A, et al. **J Cardiovasc Pharmacol** 1990 May;15(5):853–5

Thermal dependence of serotonergic modulation of neural activity in the hamster. Horrigan DJ, et al. **J Comp Physiol [A]** 1990 May;167(1):79–88

Cold tolerance mechanisms of the free-living stages of Trichostrongylus colubriformis (Nematoda). Wharton DA, et al. **J Exp Biol** 1989 Sep;145:353–69

Lower serum magnesium level after exposure to cold in women with primary Raynaud's phenomenon. Leppert J, et al. **J Intern Med** 1990 Sep;228(3):235–9

Effects of cold exposure on rat adrenal tyrosine hydroxylase: an analysis of RNA, protein, enzyme activity, and cofactor levels. Baruchin A, et al. **J Neurochem** 1990 May; 54(5):1769–75

Microtubule nucleation and organization in teleost photoreceptors: microtubule recovery after elimination by cold. Troutt LL, et al. **J Neurocytol** 1990 Apr;19(2):213–23

Reversible neural inactivation by cooling in anesthetized and freely behaving rats. Campeau S, et al. **J Neurosci Methods** 1990 Apr;32(1):25–35

Stimulation of the medullary reticular formation in cold-injured brain. Nagao S, et al. **J Neurotrauma** 1989 Winter;6(4):279–87

Quantitative analysis of cold stress performance after digital replantation. Nunley JA, et al. **J Orthop Res** 1990 Jan; 8(1):94–100

Intracellular Ca2+ transients during rapid cooling contractures in guinea-pig ventricular myocytes. Bers DM, et al. **J Physiol (Lond)** 1989 Oct;417:537–53

Long-latency stretch reflexes of two intrinsic muscles of the human hand analysed by cooling the arm. Matthews PB. **J Physiol (Lond)** 1989 Dec;419:519–38

Energetic recovery from hypothermic preservation in the rat liver. Tsukamoto K, et al. **J Surg Res** 1990 Jan; 48(1):46–50

Transfusion of fresh whole blood stored (4 degrees C) for short period fails to improve platelet aggregation on extracellular matrix and clinical hemostasis after cardiopulmonary bypass. Golan M, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):354–60

Are temperatures attained by donor hearts during transport too cold? Hendry PJ, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):517–22

Epididymal white adipose tissue after cold stress in rats. I. Nonmitochondrial changes. Lončar D, et al. **J Ultrastruct Mol Struct Res** 1988 Nov-Dec; 101(2–3):109–22

Epididymal white adipose tissue after cold stress in rats. II. Mitochondrial changes. Lončar D, et al. **J Ultrastruct Mol Struct Res** 1988 Nov-Dec; 101(2–3):199–209

The effects of cooling on human saphenous vein reactivity to adrenergic agonists. Harker CT, et al. **J Vasc Surg** 1990 Jul;12(1):45–9

Alteration in pulmonary blood flow induced by cold

exposure to the hand in progressive systemic sclerosis. Yamauchi K, et al. **Jpn J Med** 1989 Jul–Aug;28(4):506–9

Effects of exercise, cold, and immobilization stresses on gamma–glutamyltransferase activity in rat kidney. Ohno H, et al. **Jpn J Physiol** 1989;39(6):949–55

Influence of food intake on cold–induced vasodilatation of finger. Takano N, et al. **Jpn J Physiol** 1989;39(5):755–65

Skin blood flow in diabetic patients during cold loading. Hatanaka H, et al. **Kobe J Med Sci** 1989 Jun;35(3):131–6

Hormonal responses to cold exposure in subjects with vibration syndrome. Harada N, et al. **Kurume Med J** 1990; 37 Suppl:S45–52

Emergency treatment of exertional heatstroke and comparison of whole body cooling techniques. Costrini A. **Med Sci Sports Exerc** 1990 Feb;22(1):15–8 (29 ref.)

Growth at reduced temperatures increases the virulence of Listeria monocytogenes for intravenously but not intragastrically inoculated mice. Czuprynski CJ, et al. **Microb Pathog** 1989 Sep;7(3):213–23

Capillary blood cell velocity in finger nailfold: characteristics and reproducibility of the local cold response. Gasser P. **Microvasc Res** 1990 Jul;40(1):29–35

Increase in hepatic microsomal lipid peroxidation mediated by alpha–adrenergic system under cold stress and noradrenaline treatment. Sekhar BS, et al. **Mol Cell Biochem** 1990 Apr 18;94(1):61–70

Effects of cold shock and phospholipase A2 on intact boar spermatozoa and sperm head plasma membranes. Robertson L, et al. **Mol Reprod Dev** 1990 Jun;26(2):143–9

How do Christchurch parents keep young babies warm on cold nights? Cowan SF. **N Z Med J** 1990 Feb 28; 103(884):71–3

Empty MHC class I molecules come out in the cold. Ljunggren HG, et al. **Nature** 1990 Aug 2;346(6283):476–80

Enhancement of chilling tolerance of a cyanobacterium by genetic manipulation of fatty acid desaturation. Wada H, et al. **Nature** 1990 Sep 13;347(6289):200–3

Effects of cool dialysate in dialysis–related symptoms [letter] Marcen R, et al. **Nephron** 1990;54(4):356–7

Site–dependent action of intracerebroventricular 5–hydroxytryptamine on the cold–stimulated thyrotropin secretion in male rats. Toivonen M, et al. **Neuroendocrinology** 1990 Jan;51(1):45–50

Antagonism of morphine analgesia by nonopioid cold–water swim analgesia: direct evidence for collateral inhibition. Steinman JL, et al. **Neurosci Biobehav Rev** 1990 Spring; 14(1):1–7

Effect of cold stress on cholinergic receptors in the rat adrenal gland. Miner LL, et al. **Neurosci Lett** 1989 Dec 4;106(3):339–44

Regional spinal cord blood flow during local cooling. Sakamoto T, et al. **Neurosurgery** 1990 Jun;26(6):958–62

The effects of distraction on responses to cold pressor pain. Hodes RL, et al. **Pain** 1990 Apr;41(1):109–14

Analgesic effects of different frequencies of transcutaneous electrical nerve stimulation on cold–induced pain in normal subjects. Johnson MI, et al. **Pain** 1989 Nov;39(2):231–6

Central suppression of cold–induced C fibre pain by myelinated fibre input. Wahren LK, et al. **Pain** 1989 Sep; 38(3):313–9

Cold–induced and diet–induced thermogenesis in progesterone–treated rats. Nava MP, et al. **Pflugers Arch** 1990 Mar;415(6):747–50

Enhancement of freezing behaviour by metoclopramide: implications for neuroleptic–induced avoidance deficits. Blackburn JR, et al. **Pharmacol Biochem Behav** 1990 Mar; 35(3):685–91

Effects of dexfenfluramine on the feeding behavior of rats foraging in the cold for palatable bait. Cabanac M, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1025–31

Effect of cold–restraint stress on glutathione and lipid peroxide levels in the liver and glandular stomach of rats. Yeğen B, et al. **Pharmacol Res** 1990 Jan–Feb;22(1):45–8

Life at low temperatures. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;326(1237):515–692

Water, temperature and life. Franks F, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1237):517–31; discussion 531–3 (46 ref.)

Cold adaptation in marine organisms. Johnston IA. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1237):655–66, discussion 666–7 (59 ref.)

Cold adaptation of microorganisms. Russell NJ. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1237):595–608, discussion 608–11 (73 ref.)

Cold–induced lipid phase transitions. Williams WP. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1237):555–67; discussion 567–70 (52 ref.)

Water clusters and polyhydrates of nucleotide bases at low temperatures. Mass–spectrometric data. Teplitsky AB, et al. **Physiologie** 1989 Oct–Dec;26(4):335–9

Ribosomes as sensors of heat and cold shock in Escherichia coli. VanBogelen RA, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5589–93

Analysis of human long–latency reflexes by cooling the peripheral conduction pathway; which afferents are involved? Matthews PB. **Prog Brain Res** 1989;80:103–12; discussion 57–60

The effects of very low fat diets enriched with fish or kangaroo meat on cold–induced vasoconstriction and platelet function. Butcher LA, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Mar; 39(3):221–6

The action of caffeine on X–irradiated HeLa cells. IX. Hypothermic effects. Tolmach LJ, et al. **Radiat Res** 1990 Jun;122(3):280–7

Effects of focal cooling in the ventrolateral medulla on chemoresponsiveness in dogs. Chonan T, et al. **Respir Physiol** 1990 Apr;80(1):45–54

Moderate cold exposure in the Faroe fishing industry. Lundqvist GR, et al. **Scand J Work Environ Health** 1990 Aug;16(4):278–83

Evidence for a cold–induced aldosterone stimulation in the rat. Delost P, et al. **Steroids** 1989 Jul;54(1):55–69

Effects of low temperature on the respiratory metabolism of carbohydrates by plants. ap Rees T, et al. **Symp Soc Exp Biol** 1988;42:377–93

Plant life in cold climates. Körner C, et al. **Symp Soc Exp Biol** 1988;42:25–57

Low temperature and the growth of plants. Pollock CJ, et al. **Symp Soc Exp Biol** 1988;42:157–80 (96 ref.)

The effect of controlled reperfusion in porcine hearts submitted to three hours of cold global ischemia. Haverich A, et al. **Transpl Int** 1989 Aug;2(2):78–83

[Cold sensitivity after median or ulnar nerve injury based on a series of 82 cases] Lenoble E, et al. **Ann Chir Main Memb Super** 1990;9(1):9–14 (Eng. Abstr.) **(Fre)**

[Comparison of humeral blood flow during rewarming and recooling of the hand in normal subjects or presenting Raynaud's phenomenon] Savin E, et al. **J Mal Vasc** 1989; 14(4):312–9 (Eng. Abstr.) **(Fre)**

[Action of nifedipine on the post–ischemic cold hyperemia reaction in Raynaud's phenomenon] Vayssairat M, et al. **J Mal Vasc** 1989;14(4):299–302 (Eng. Abstr.) **(Fre)**

[The effect of ganglionectomy and cold exposure on the ventromedial hypothalamic nucleus, blood glucose and liver glycogen in regard to circadian rhythms] Peschke D, et al. **Anat Anz** 1990;170(3–4):237–55 (Eng. Abstr.) **(Ger)**

[Role of prostaglandins in the cooling–induced constriction of the iris sphincter] Suzuki R, et al. **Nippon Ganka Gakkai Zasshi** 1989 May;93(5):529–32 (Eng. Abstr.) **(Jpn)**

[Ultrastructural aspects of the atrial cardiac myocytes in albino rats subjected to the effects of cold] Borrotchin L, et al. **Arq Bras Cardiol** 1989 Jul;53(1):19–22 (Eng. Abstr.) **(Por)**

[Cold denaturation of staphylococcal nuclease] Griko IuV, et al. **Biofizika** 1989 Nov–Dec;34(6):940–5 (Eng. Abstr.) **(Rus)**

[Structural reorganizations of the lipids and proteins of erythrocyte membranes under the action of low temperatures] Gulevskiĭ AK, et al. **Biol Nauki** 1990; (5):29–36 (Eng. Abstr.) **(Rus)**

[Characteristics of specific adaptation to cold and their relation to aggressive behavior and the stress level in house mice] Moshkin MP, et al. **Biull Eksp Biol Med** 1989 Sep; 108(9):345–8 (Eng. Abstr.) **(Rus)**

[Atypical miniature end plate currents in neuromuscular synapses of the rat under normal conditions, after acetylcholinesterase inhibition and cooling] Vinogradova IM, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):523–5 (Eng. Abstr.) **(Rus)**

[The effect of adaptation to cold on external respiration indices in hypercapnia] Iakimenko MA, et al. **Fiziol Cheloveka** 1989 Sep–Oct;15(5):148–51 **(Rus)**

[Quantitative evaluation of the function of the presynaptic apparatus of the rat in cold adaptation] Shtan'ko SA. **Fiziol Zh SSSR** 1989 Jun;75(6):857–62 (Eng. Abstr.) **(Rus)**

[The effect of cooling on the characteristics of a single skeletal muscle contraction in cold–adapted rats] Uspenskiĭ AN, et al. **Fiziol Zh SSSR** 1990 Mar;76(3):414–7 (Eng. Abstr.) **(Rus)**

[Neurotropic effects in local exposure to heat and cold (physiology, pathology and therapy)] Likhtenshteĭn VA. **Klin Med (Mosk)** 1990 Apr;68(4):149–51 **(Rus)**

[Effectiveness and mechanisms of the protective action of sidnocarb in experimental weightlessness and cooling] Lakota NG, et al. **Kosm Biol Aviakosm Med** 1990 Mar–Apr; 24(2):41–6 (Eng. Abstr.) **(Rus)**

[The static and dynamic activity of the cold receptors of the skin during noradrenaline infusion] Kozyreva TV. **Neirofiziologiia** 1990;22(1):69–75 (Eng. Abstr.) **(Rus)**

[Rational body hardening: determination of a cold biodose using distant thermochronography] Lukoianov IuE. **Pediatriia** 1989;(12):82–3 **(Rus)**

[Erythrocyte membrane proteins during exposure to moderately low temperatures] Riazantsev VV, et al. **Ukr Biokhim Zh** 1990 Jan–Feb;62(1):94–7 (Eng. Abstr.) **(Rus)**

[The effect of low temperatures on fatty acid composition of plasmalogen and diacyl phospholipids from the rat liver] Ternovoĭ VA, et al. **Vopr Med Khim** 1989 Sep–Oct; 35(5):58–61 (Eng. Abstr.) **(Rus)**

[Lipid peroxidation and oxidative phosphorylation in the heart and skeletal muscles of chickens developing under conditions of short–term cooling] Stepanian RA, et al. **Zh Evol Biokhim Fiziol** 1990 Jan–Feb;26(1):73–7 (Eng. Abstr.) **(Rus)**

[Cryobiology: a new science] García López J, et al. **Med Clin (Barc)** 1990 Jan 20;94(2):65–8 (37 ref.) **(Spa)**

ADVERSE EFFECTS

Morphological estimation of brain extracellular fluid dynamics in cold–induced edema from the aspect of cerebrospinal fluid–extracellular fluid communication. Hattori H, et al. **Acta Pathol Jpn** 1990 May;40(5):314–21

Glycerol dehydrates traumatic and cold–lesioned brain edema as well as normal brain. Chen JL, et al. **Adv Neurol** 1990;52:550

Positron emission tomography study of 11C–acetoacetate uptake in a freezing lesion in cat brain, as correlated with 11C–tyrosine and 18F–fluorodeoxyglucose uptake, and with proton magnetic resonance imaging. Go KG, et al. **Adv Neurol** 1990;52:525–8

Effect of superoxide dismutase in cats with cold–induced edema. Ikeda Y, et al. **Adv Neurol** 1990;52:203–10

Intravenous glutamate enhances edema formation after a freezing lesion. Kempski O, et al. **Adv Neurol** 1990; 52:219–23

Pharmacokinetics of glucosteroids in severe head injury. Experimental studies in rat brain after cold lesion. Kostron H, et al. **Adv Neurol** 1990;52:289–94

Hydrostatic pressure versus osmotic pressure in the development of vasogenic brain edema induced by cold injury. Kuroiwa T, et al. **Adv Neurol** 1990;52:11–9

Relation between epileptic activities and edema formation after cryogenic injury in the rabbit. Loiseau H, et al. **Adv Neurol** 1990;52:257–67

Dose–response relation for dexamethasone in cold lesion–induced brain edema in rats. Meinig G, et al. **Adv Neurol** 1990;52:295–300

Dexamethasone effects on the distribution of water and albumin in cold–injury cerebral edema. Nakata H, et al. **Adv Neurol** 1990;52:335–42

Cold–induced corneal edema as an isolated feature of trigeminal neuropathy. Jacobson DM, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):484–6

Cold urticaria in Saudi Arabia. Moreno JN, et al. **Ann Allergy** 1989 Oct;63(4):331–4

Effect of terfenadine on pulmonary function, histamine release, and bronchial challenges with nebulized water and cold–air hyperventilation. Townley RG, et al. **Ann Allergy** 1989 Nov;63(5):455–60

Technique and strain comparisons in stress ulcer. Paré WP. **Ann N Y Acad Sci** 1990;597:223–30

The effects of cold upon bone growth: a preliminary study. Bierens de Haan B, et al. **Ann Plast Surg** 1986 Jun; 16(6):509–15

On chilling [editorial] Boucot KR. **Arch Environ Health** 1967 Mar;14(3):379

Hyperventilation response to cold water immersion: reduction by staged entry. Hayward JS, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1163–5

Oxygen saturation of brachial venous blood correlates with fingertip temperatures between 11 and 39 degrees C. Reed HL, et al. **Aviat Space Environ Med** 1989 Nov; 60(11):1068–71

Repeated exposure to moderate cold impairs matching–to–sample performance. Thomas JR, et al. **Aviat Space Environ Med** 1989 Nov;60(11):1063–7

Cold injury from liquid propane. James NK, et al. **BMJ** 1989 Oct 14;299(6705):950–1

Factors affecting chicken thrombocyte morphology and the relationship with heterophil:lymphocyte ratios. Gross WB. **Br Poult Sci** 1989 Dec;30(4):919–25

A timed study of the histopathology, direct immunofluorescence and ultrastructural findings in idiopathic cold–contact urticaria over a 24–h period. Lawlor F, et al. **Clin Exp Dermatol** 1989 Nov;14(6):416–20

Paroxysmal cold hemoglobinuria. Djaldetti M. **CRC Crit Rev Clin Lab Sci** 1978;9(1):49–83 (101 ref.)

Occurrence of cold urticaria during venom desensitization [letter] Anfosso–Capra F, et al. **Dermatologica** 1990; 180(4):276

Gastroduodenal motility during the delayed gastric emptying induced by cold stress. Fone DR, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1155–61

Potentiation of aspirin–induced gastric lesions by exposure to cold in rats. Role of acid secretion, mucosal blood flow, and gastric mucosal prostanoid content. Robert A, et al. **Gastroenterology** 1989 Nov;97(5):1147–58

Effect of cold shock on age–related changes in the glucose uptake of brain slices of male garden lizard. Dash BD, et al. **Gerontology** 1989;35(2–3):95–9

Cold and heat injury. Kumari S, et al. **Indian Pediatr** 1988 Oct;25 Suppl:112–20

Responses of sympathetic nervous system to cold exposure in vibration syndrome subjects and age–matched healthy controls. Nakamoto M. **Int Arch Occup Environ Health** 1990;62(2):177–81

Metabolic and hormonal responses during exercise at 20 degrees, 0 degrees and –20 degrees C. Quirion A, et al. **Int J Biometeorol** 1989 Dec;33(4):227–32

Peripheral nervous control of cold–induced reduction in the respiratory quotient of the rat. Refinetti R. **Int J Biometeorol** 1990 May;34(1):24–7

Effects of repeated short–term cold exposures on cold induced thermogenesis of women. Silami–Garcia E, et al. **Int J Biometeorol** 1989 Dec;33(4):222–6

Humoral regulation during cold–induced coronary arterial spasm. Stefenelli T, et al. **Int J Cardiol** 1989 Nov; 25(2):199–205

Effect of inhaled furosemide on the bronchial response to

methacholine and cold-air hyperventilation challenges. Grubbe RE, et al. **J Allergy Clin Immunol** 1990 May; 85(5):881-4

Systemic cold-induced urticaria—clinical and laboratory characterization. Kivity S, et al.
J Allergy Clin Immunol 1990 Jan;85(1 Pt 1):52-4

Regional expression of cold urticaria. Kurtz AS, et al.
J Allergy Clin Immunol 1990 Aug;86(2):272-3

Cold urticaria syndromes: historical background, diagnostic classification, clinical and laboratory characteristics, pathogenesis, and management. Wanderer AA.
J Allergy Clin Immunol 1990 Jun;85(6):965-81 (174 ref.)

Essential acquired cold urticaria [letter; comment] Wanderer AA. **J Allergy Clin Immunol** 1990 Feb;85(2):531-2 Comment on: J Allergy Clin Immunol 1988 Nov;82(5 Pt 1):758-63.

Influence of caffeine on metabolic responses of men at rest in 28 and 5 degrees C. MacNaughton KW, et al.
J Appl Physiol 1990 May;68(5):1889-95

Adrenergic responses to cognitive activity in a cold environment. Thomas JR, et al. **J Appl Physiol** 1990 Mar; 68(3):962-6

Gastrointestinal blood flow and oxygen delivery during environmental cold stress: effect of anaemia. Mayfield SR, et al. **J Dev Physiol** 1989 Oct;12(4):219-23

Effect of low temperatures on glucose-induced insulin secretion and glucose metabolism in isolated pancreatic islets of the rat. Escolar JC, et al. **J Endocrinol** 1990 Apr; 125(1):45-51

Aerosol spray can induced cold injury in a patient with Raynaud's phenomenon. Olive KE. **J Rheumatol** 1990 Apr; 17(4):556-7

Biological thresholds of cold-induced phrenic nerve injury. Robicsek F, et al. **J Thorac Cardiovasc Surg** 1990 Jan; 99(1):167-70

Effect of acute cold-exposure on norepinephrine turnover and thermogenesis in brown adipose tissue and metabolic rate in MSG-induced obese mice. Yoshioka K, et al.
Jpn J Physiol 1989;39(6):957-62

Winter's skin [editorial] **Lancet** 1990 Feb 3;335(8684):266

Heat, cold, noise, and vibration. Horvath SM, et al.
Med Clin North Am 1990 Mar;74(2):515-25 (38 ref.)

Influence of cold pain in the hand on skin impedance, heart rate and skin temperature. Hampf G. **Physiol Behav** 1990 Jan;47(1):217-8

Cold-induced skin disorders. Goodfield M. **Practitioner** 1989 Dec 15;233(1480):1616, 1618-20

Dermatology. Millard L. **Practitioner** 1989 Dec 15; 233(1480):1615

Proceedings of the Third International Conference on Environmental Ergonomics. Helsinki, 8-12 August 1988. **Scand J Work Environ Health** 1989;15 Suppl 1:1-94

Ergonomic aspects of cold stress and cold adaptation. Budd GM. **Scand J Work Environ Health** 1989;15 Suppl 1:15-26 (71 ref.)

Effects of thermal stress on human performance. Enander AE. **Scand J Work Environ Health** 1989;15 Suppl 1:27-33 (63 ref.)

Depression of glutathione by cold-restraint in mice. Simmons HF, et al. **Toxicology** 1990 Mar 30;61(1):59-71

Deaths in winter in Northern Ireland: the role of low temperature. McKee CM. **Ulster Med J** 1990 Apr; 59(1):17-22

[The effects of cold on facial nerve function] Schadel A. **Laryngorhinootologie** 1990 May;69(5):242-5 (Eng. Abstr.) **(Ger)**

[Paroxysmal cold hemoglobinuria in a 2-year-old boy] Bohnhorst B, et al. **Monatsschr Kinderheilkd** 1989 Dec; 137(12):785-6 (Eng. Abstr.) **(Ger)**

[Dose- and time-dependent dexamethasone effects in cold lesion-induced brain edema in the rat. Experimental research accompanying the German Ultrahigh Dexamethasone Head Injury Study (GUDHIS)] Deisenroth K, et al. **Neurochirurgia (Stuttg)** 1990 Jan; 33(1):1-7 (Eng. Abstr.) **(Ger)**

[Contact plate thermography with cold provocation tests for the diagnosis of Raynaud's phenomenon] Happersberger R, et al. **Vasa** 1990;19(2):112-8 (Eng. Abstr.) **(Ger)**

[Cold injury—prevention, diagnosis and treatment] Seidman DS, et al. **Harefuah** 1990 Jan 1;118(1):43-5 **(Heb)**

[The role of stimulation of the medullary reticular formation on intracranial pressure in cold injured brain] Nagao S, et al. **No Shinkei Geka** 1990 Feb;18(2):153-9 (Eng. Abstr.) **(Jpn)**

[Effect of stimulation of the medullary reticular formation on brain water content in cold injured brain] Ogawa T. **No To Shinkei** 1990 Mar;42(3):261-8 (Eng. Abstr.) **(Jpn)**

[Endocrine and lymphoid interrelations in rats with hereditary arterial hypertension] Shorin IuP, et al.
Arkh Anat Gistol Embriol 1990 Apr;98(4):57-61 (Eng. Abstr.) **(Rus)**

[Changes in pain reactions and 3H-naloxone binding to opiate receptors of the hypothalamus and midbrain in rats after repeated swimming in cold water] Bragin EO, et al.
Biull Eksp Biol Med 1989 Sep;108(9):292-4 (Eng. Abstr.) **(Rus)**

[The effect of the delta-sleep peptide on the homocarnosine content of the brain in rats under the action of cold stress] Bondarenko TI, et al. **Fiziol Zh SSSR** 1989 Dec; 75(12):1788-90 **(Rus)**

[Autonomic cold-induced polyneuropathies in fishermen] Ludianskil EA, et al. **Gig Tr Prof Zabol** 1989;(7):41 **(Rus)**

[Protection of the respiratory organs while working in the cold] Naumenko IM, et al. **Gig Tr Prof Zabol** 1989; (10):28-31 (Eng. Abstr.) **(Rus)**

[The content of catecholamines in the adrenergic plexuses of the spleen and intestines during cold and emotional stresses] Dib J, et al. **Neirofiziologiia** 1990;22(3):347-54 (Eng. Abstr.) **(Rus)**

[The morphological changes in the pulmonary vessels in death from freezing] Os'minkin VA. **Sud Med Ekspert** 1990 Jan-Mar;33(1):28-30 (Eng. Abstr.) **(Rus)**

[Diseases of the cardiovascular system and the function of the endocrine glands in veterans of Soviet Antarctic expeditions] Iakovlev VA, et al. **Ter Arkh** 1990;62(4):47-51 (Eng. Abstr.) **(Rus)**

[A case of the adult respiratory distress syndrome during extreme total body cooling and the aspiration of cold fresh water] Iakovlev VN, et al. **Ter Arkh** 1990;62(1):116-8 **(Rus)**

[Interactions between the body and harmful substances in cold conditions] Chashchin VP, et al.
Vestn Akad Med Nauk SSSR 1989;(9):21-6 (Eng. Abstr.) **(Rus)**

[Classification of Raynaud's phenomenon] Ratner GL, et al. **Vestn Khir** 1989 Sep;143(9):62-3 **(Rus)**

[The organization of medical care for the victims of the accident on the Komsomolets nuclear submarine] Ivashkin VT, et al. **Voen Med Zh** 1989 Nov;(11):28-32 **(Rus)**

DIAGNOSTIC USE

The cold pressor test: effects on sympathetic nerve activity in human muscle and skin nerve fascicles. Fagius J, et al. **Acta Physiol Scand** 1989 Nov;137(3):325-34

Effect of cold pressor test on the internal diameter of the radial artery. Perret F, et al. **Am J Hypertens** 1989 Sep; 2(9):727-8

Studies on the relationships between sensitivity to cold, dry air, hyperosmolal solutions, and histamine in the adult nose. Togias A, et al. **Am Rev Respir Dis** 1990 Jun;141(6):1428-33

Cyanosis and Raynaud's phenomenon: the relation to underlying disease and venous abnormalities. Engelhart M, et al. **Angiology** 1990 Jun;41(6):432-8

Cold air challenge and platinum skin reactivity in platinum refinery workers. Bronchial reactivity precedes skin prick response. Brooks SM, et al. **Chest** 1990 Jun;97(6):1401-7

The cold face test (diving reflex) in clinical autonomic assessment: methodological considerations and repeatability of responses. Heath ME, et al. **Clin Sci** 1990 Feb; 78(2):139-47

Influence of the duration of inhalation of cold dry air on the resulting bronchoconstriction in asthmatic subjects. Caire N, et al. **Eur Respir J** 1989 Sep;2(8):741-5

Use of isolated cold stress testing in determining normal lower extremity thermoregulation. Pollock FE Jr, et al. **Foot Ankle** 1990 Feb;10(4):229-34

Family history of hypertension and cardiovascular reactivity to forehead cold stimulation in black male children. Musante L, et al. **J Psychosom Res** 1990;34(1):111-6

Suggested new methods of testing thermal sensation during field work [letter] Kartikeyan S, et al. **Lepr Rev** 1990 Jun; 61(2):192

Racial differences in hemodynamic responses to the cold face stimulus in children and adults. Treiber FA, et al.
Psychosom Med 1990 May-Jun;52(3):286-96

Effect of cold pressor test on carbon monoxide diffusing capacity in normal subjects. Kuwahira I, et al.
Respiration 1989;56(1-2):87-93

Local cooling test for clinical capillaroscopy in Raynaud's phenomenon, unstable angina, and vasospastic visual disorders. Mahler F, et al. **Vasa** 1989;18(3):201-4

Local cooling test for clinical capillaroscopy in Raynaud's phenomenon. Mahler F, et al. **Vasa Suppl** 1989;27:27-8

[Significance of cold pressor on identifying individuals susceptible to primary hypertension] Wu J.
Chung Hua I Hsueh Tsa Chih 1990 Mar;70(3):125-7, 10 (Eng. Abstr.) **(Chi)**

[Limitations of cold tests in Raynaud's disease] Vayssairat M, et al. **J Mal Vasc** 1990;15(1):82-5 (25 ref.) (Eng. Abstr.) **(Fre)**

[Cold pressor test in the evaluation of autonomic neuropathy] Palatini P, et al. **Cardiologia** 1989 Nov;34(11):939-43 (Eng. Abstr.) **(Ita)**

[Angiopathy caused by vibrating tools: cold test and prostaglandin balance] Taccola A, et al. **Med Lav** 1990 Jan-Feb;81(1):45-9 (Eng. Abstr.) **(Ita)**

[The echocardiographic examination associated with the cold pressor test or the isometric force test in the evaluation of ischemic heart disease] Canale C, et al.
Minerva Cardioangiol 1989 Jul-Aug;37(7-8):341-9 (Eng. Abstr.) **(Ita)**

[Evaluation of increasing digital blood flow during early period of air-cooled cold test] Yamada M, et al.
Kokyu To Junkan 1990 Jun;38(6):571-6 (Eng. Abstr.) **(Jpn)**

[Digital plethysmogram in women with climacteric disturbance after cold-water challenge test and effect of estrogen] Katoh K, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1990 Jun;42(6):545-52 (Eng. Abstr.) **(Jpn)**

[Evaluation of the skin sympathetic function by the decrease of skin temperature at the finger tip immersed into cold water] Kunimoto M. **Rinsho Shinkeigaku** 1989 Aug; 29(8):1004-8 (Eng. Abstr.) **(Jpn)**

[Vibratory and cooling detection thresholds in diabetes mellitus] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):207-14 (Eng. Abstr.) **(Jpn)**

[A method for evaluating a diagnostic inflammatory focus by using the "cold test"] Pigarevskii VE, et al.
Arkh Patol 1989;51(12):66-9 (Eng. Abstr.) **(Rus)**

[Electrocardiographic loading tests in persons with various ECG changes (findings of epidemiological studies)] Nikitin IuP, et al. **Kardiologiia** 1989 Dec;29(12):77-81 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Effect of head cooling on man at rest and during exercise under heat stress. Katsuura T, et al.
Ann Physiol Anthropol 1989 Jan;8(1):49-50

Cryoanalgesia for postthoracotomy pain [letter] Berrisford RG, et al. **Ann Thorac Surg** 1990 Mar;49(3):509-10

Head cooling is desirable but not essential for preventing heat strain in pilots. Frim J. **Aviat Space Environ Med** 1989 Nov;60(11):1056-62

Cryotherapy for headache. Robbins LD. **Headache** 1989 Oct; 29(9):598-600

Postepisiotomy pain: warm versus cold sitz bath [see comments] LaFoy J, et al.
J Obstet Gynecol Neonatal Nurs 1989 Sep-Oct; 18(5):399-403 Comment in: J Obstet Gynecol Neonatal Nurs 1990 Jan-Feb;19(1):13.

Cold packs: effective topical analgesia in the treatment of painful stings by Physalia and other jellyfish. Exton DR, et al. **Med J Aust** 1989 Dec 4-18;151(11-12):625-6

Effect of a practical neck cooling device on core temperature during exercise. Gordon NF, et al.
Med Sci Sports Exerc 1990 Apr;22(2):245-9

[Immediate cooling with water: emergency treatment of burns] Latarjet J. **Pediatrie** 1990;45(4):237-9 (8 ref.) (Eng. Abstr.) **(Fre)**

[Regional cold therapy in rheumatoid arthritis] Nobunaga T. **Ryumachi** 1989 Jun;29(3):231 **(Jpn)**

[Tourniquet and cold isolation of the extremity in the complex treatment of long-term crush syndrome] Tkachenko SS, et al. **Ortop Travmatol Protez** 1990 Apr; (4):35-7 **(Rus)**

COLD AGGLUTININ DISEASE see **ANEMIA, HEMOLYTIC, AUTOIMMUNE**

COLD CLIMATE

The militarization of Labrador: will research alter the course. Baikie M, et al. **Arctic Med Res** 1988;47 Suppl 1:90-3

Public health aspects of stray dogs in Barrow, Alaska. Dalton LM, et al. **Arctic Med Res** 1988;47 Suppl 1:83-9

Recent changes in methylmercury exposure of the James Bay Cree of Quebec. Dumont C, et al. **Arctic Med Res** 1988; 47 Suppl 1:168-74

Empirical healing among the Alaska Natives. An historical perspective. Fortuine R. **Arctic Med Res** 1988;47 Suppl 1:296-302

Change of liver function during adaptation of man to northern conditions. Gichev JuP. **Arctic Med Res** 1990 Apr;49(2):68-73

The food and nutrient intake of a Swedish Saami population. Håglin L. **Arctic Med Res** 1988;47 Suppl 1:139-44

Blood mercury concentrations in birthgiving Greenlandic women. Hansen JC. **Arctic Med Res** 1988;47 Suppl 1:175-8

Nordic personality. Heine C. **Arctic Med Res** 1988;47 Suppl 1:209-12 (57 ref.)

The shaman and medical care. The case of the Saami Noaidi. Hultkrantz A. **Arctic Med Res** 1988;47 Suppl 1:290-5

Community profiles/Indian housing in Yukon Territory. Lawrence R, et al. **Arctic Med Res** 1988;47 Suppl 1:149-54

Medical care and human biological research in the British Antarctic Survey Medical Unit. Norman JN.
Arctic Med Res 1989 Jul;48(3):103-16

Seasonal allergic pollenosis. Reddoch A, et al.
Arctic Med Res 1988;47 Suppl 1:105-9

Missionaries, medicine and shamanism in the Canadian Eastern Arctic. Sampath HM. **Arctic Med Res** 1988;47 Suppl 1:303-7

Use of country foods by native Canadians in the Taiga. Wein EE, et al. **Arctic Med Res** 1988;47 Suppl 1:134-8

Methylmercury in the Canadian Arctic environment past and present—natural or industrial? Wheatley B, et al.
Arctic Med Res 1988;47 Suppl 1:163-7

A Cree healer attempts to improve the competitive position of native medicine. Young DE, et al. **Arctic Med Res** 1988; 47 Suppl 1:313-6

The human experience in Antarctica: applications to life in space. Harrison AA, et al. **Behav Sci** 1989 Oct;34(4):253-71 (110 ref.)

Cold-induced vasodilatation of finger and maximal oxygen consumption of young female athletes born in Hokkaido. Moriya K, et al. **Int J Biometeorol** 1990 May;34(1):15-9

Changes in serum triiodothyronine (T3) kinetics after prolonged Antarctic residence: the polar T3 syndrome. Reed HL, et al. **J Clin Endocrinol Metab** 1990 Apr; 70(4):965-74

Psychological factors in the antarctic. Rothblum ED.
J Psychol 1990 May;124(3):253-73 (90 ref.)

[Morphokinetics of lymph node structures in subextreme and extreme conditions] Gorchakov VN.
Arkh Anat Gistol Embriol 1989 Sep;97(9):64-7 (Eng. Abstr.)

(Rus)
[The age-related pathomorphology of the thyroid in inhabitants of the European North] Sukhanov SG, et al. **Arkh Patol** 1990;52(2):52-5 (Eng. Abstr.) (Rus)
[Interhemispheric asymmetry as a factor in human adaptation to northern conditions] Arshavskiĭ VV, et al. **Fiziol Cheloveka** 1989 Sep-Oct;15(5):142-7 (Rus)
[The physiological aspects of adaptive modifications to biomembrane lipids in man in the north] Marachev AG, et al. **Fiziol Cheloveka** 1989 Nov-Dec;15(6):46-55 (Rus)
[The hormonal mechanisms of human long-term adaptation to northern conditions] Shvareva NV. **Fiziol Cheloveka** 1990 Mar-Apr;16(2):90-7 (Rus)
[Health aspects of the use of low-calorie rations enriched with wild plants] Novoselov VG. **Kosm Biol Aviakosm Med** 1990 May-Jun;24(3):45-7 (Eng. Abstr.) (Rus)
[Helminthic zoonoses in the Far North of the USSR] Artamoshin AS, et al. **Med Parazitol (Mosk)** 1990 Mar-Apr;(2):52-4 (35 ref.) (Eng. Abstr.) (Rus)
[Prophylactic mass examination for tuberculosis in an epidemiologically unfavorable region of the Far North] Tyrylgin MA. **Probl Tuberk** 1989;(11):10-4 (Eng. Abstr.) (Rus)
[Diseases of the cardiovascular system and the function of the endocrine glands in veterans of Soviet Antarctic expeditions] Iakovlev VA, et al. **Ter Arkh** 1990;62(4):47-51 (Eng. Abstr.) (Rus)
[Classification and psychological prevention of pre-nosological forms of borderline conditions occurring in the Northern Siberia] Semke VIa, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):78-84 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

The effect of climate on fractures and deaths due to falls among white women. Hemenway D, et al. **Accid Anal Prev** 1990 Feb;22(1):59-65
Circumpolar health 87. Proceedings of the 7th International Congress. Umeå, Sweden, June 8-12, 1987. **Arctic Med Res** 1988;47 Suppl 1:19-722
Arctic health research—what—why—how? Albrecht CE. **Arctic Med Res** 1988;47 Suppl 1:24-7
Angina pectoris in the cold. Areskog NH, et al. **Arctic Med Res** 1988;47 Suppl 1:269-71
Child health in circumpolar areas. Bain HW. **Arctic Med Res** 1988;47 Suppl 1:504-9
Seasonal and bright light changes of the phase position of the human melatonin rhythm in Antarctica. Broadway JW, et al. **Arctic Med Res** 1988;47 Suppl 1:201-3
Evaluation of prenosologic states in man in the Arctic. Davidenko VI. **Arctic Med Res** 1988;47 Suppl 1:246-8
Biogeophysical aspects of population health at high latitudes. Deryapa NR. **Arctic Med Res** 1988;47 Suppl 1:79-82 (17 ref.)
Scurvy and its influence on early Alaskan history. Fortuine R. **Arctic Med Res** 1988;47 Suppl 1:308-12
Treatment and prevention of cold injuries by ancient peoples indigenous to Arctic and subarctic regions. Foutch RG, et al. **Arctic Med Res** 1988;47 Suppl 1:286-9
Environment, society and health. Quality of life issues in the contemporary north. Freeman MM. **Arctic Med Res** 1988;47 Suppl 1:53-9 (20 ref.)
Cold injuries. Granberg PO. **Arctic Med Res** 1988;47 Suppl 1:39-41
Snowmobile injuries in northern Newfoundland and Labrador 1985-86 winter season. Hamdy CR, et al. **Arctic Med Res** 1988;47 Suppl 1:406-8
Breakup of an isolate. Harvald B. **Arctic Med Res** 1988;47 Suppl 1:41-2
Distinctive features of occupational health in the Arctic. Hassi J. **Arctic Med Res** 1988;47 Suppl 1:226-8
Assessment of cold environments in terms of required insulation. Holmér I. **Arctic Med Res** 1988;47 Suppl 1:239-42 (17 ref.)
Juvenile alcohol use and self-destructive behaviour in northern populations. A cross-cultural comparison. Jilek-Aall L. **Arctic Med Res** 1988;47 Suppl 1:604-10 (34 ref.)
A sample of personality profiles of frostbite patients in Alaska 1980-86. Kappes BM, et al. **Arctic Med Res** 1988;47 Suppl 1:243-5
Infrared hand temperature measurements during the 1986 and 1987 330km Iditaski Cross-Country Ski Race. Kappes BM, et al. **Arctic Med Res** 1988;47 Suppl 1:257-60
Cold exposure and liver NADPH generating enzymes in genetically obese (ob/ob) mice. Karvonen I, et al. **Arctic Med Res** 1988;47 Suppl 1:265-8
Alcohol problems in conditions of the North. Korolenko CP. **Arctic Med Res** 1988;47 Suppl 1:593-5
The peculiarities of alcoholism in the north. Korolenko CP. **Arctic Med Res** 1988;47 Suppl 1:36-7
Antarctica—lessons for health care planning and delivery to circumpolar populations. Lugg DJ. **Arctic Med Res** 1988;47 Suppl 1:360-4
Mental health for all in the year 2000—also in the Arctic. Lynge I. **Arctic Med Res** 1988;47 Suppl 1:571-5 (20 ref.)
The University of Alaska—Siberian medical agreement. Its history, philosophy and implications for northern medicine. Mala TA, et al. **Arctic Med Res** 1988;47 Suppl 1:43-6
Recommendations for future Arctic health research. Middaugh JP. **Arctic Med Res** 1988;47 Suppl 1:27-30
Cutaneous immune responses in Antarctica. A reflection of immune status? Muller HK, et al. **Arctic Med Res** 1988;47 Suppl 1:249-51
Fat loss during moderate exercise in cold environments in relation to fitness level. Murray SJ, et al. **Arctic Med Res** 1988;47 Suppl 1:277-9
Chronic noncommunicable diseases in native residents and newcoming populations of circumpolar areas. Nikitin YuP. **Arctic Med Res** 1988;47 Suppl 1:426-33
Problems concerning native and migrant populations, their nutrition, the physical environment, ecology and methodology of research. Nikitin YuP. **Arctic Med Res** 1988;47 Suppl 1:38-9
The establishment of an occupational health service for the British Antarctic Survey. Norman JN, et al. **Arctic Med Res** 1988;47 Suppl 1:365-7
Perception of airway comfort in cold air increased by means of mouth-held breathing aid. Ostberg ON, et al. **Arctic Med Res** 1988;47 Suppl 1:252-6
Health and nutrition in circumpolar regions. Panin LE. **Arctic Med Res** 1988;47 Suppl 1:121-7
Circumpolar system safety engineering. Pascal S. **Arctic Med Res** 1988;47 Suppl 1:390-3
The transfer of control of northern research to Canada's native people. Postl BD. **Arctic Med Res** 1988;47 Suppl 1:34-5
Thermoinfusion—a system for giving warm intravenous infusion. Renström B. **Arctic Med Res** 1988;47 Suppl 1:388-9
The metabolic cost of exercising in cold air (-20 degrees C). Romet TT, et al. **Arctic Med Res** 1988;47 Suppl 1:280-5
The effects of breathing warm air during cold exposure. Romet TT, et al. **Arctic Med Res** 1988;47 Suppl 1:272-6
Contribution to the panel on Arctic health research. Schaefer O. **Arctic Med Res** 1988;47 Suppl 1:31-3
Cold adaptation and energy balance. Shephard RJ, et al. **Arctic Med Res** 1988;47 Suppl 1:231-8 (39 ref.)
Cold exposure and xenobiotic metabolism. Stengård JH, et al. **Arctic Med Res** 1988;47 Suppl 1:261-4
Swedish polar research. Theutenberg HE. **Arctic Med Res** 1988;47 Suppl 1:47-9
Environmental health considerations in the Arctic. Waddington JI. **Arctic Med Res** 1988;47 Suppl 1:145-8
Working in arctic and sub-arctic conditions: mental health issues. Cochrane JJ, et al. **Can J Psychiatry** 1989 Dec; 34(9):884-90
Temperature and cardiovascular deaths in Montreal. Auliciems A, et al. **Int J Biometeorol** 1989 Oct;33(3):151-6
Hematological variations at rest and during maximal and submaximal exercise in a cold (0 degree C) environment. Vogelaere P, et al. **Int J Biometeorol** 1990 May;34(1):1-14
[Polar medical research from the viewpoint of public health] Schrader G. **Z Gesamte Hyg** 1989 Dec;35(12):721-3 (Eng. Abstr.) (Ger)
[Hygienic significance of low humidity under the conditions of Extreme North (review of the literature)] Dedenko II, et al. **Gig Sanit** 1990 Mar;(3):7-10 (35 ref.) (Rus)
[Individual typological characteristics of the cardiovascular reaction to partial body cooling in workers on field-watch assignments] Divert GM, et al. **Gig Tr Prof Zabol** 1989; (10):25-8 (Eng. Abstr.) (Rus)

COLD, COMMON see **COMMON COLD**

COLD-INSOLUBLE GLOBULINS see **FIBRONECTINS**

COLECTOMY

Surgical treatment of ulcerative colitis in Stockholm county. Leijonmarck CE. **Acta Chir Scand Suppl** 1990;554:1-56
Massive rectal hemorrhage 3 years after subtotal colectomy for acute ulcerative colitis [letter] May GR, et al. **Am J Gastroenterol** 1990 Aug;85(8):1046-7
Surgical treatment for refractory constipation—more hard data about hard stools? Wald A. **Am J Gastroenterol** 1990 Jun;85(6):759-60
Cancerous colonic polyps. "Hands on" or "hands off?". Wolff WL, et al. **Am Surg** 1990 Mar;56(3):148-52 (45 ref.)
Ulcerative colitis and colon cancer: the role of surveillance. Broström O. **Ann Med** 1989 Aug;21(4):309-11 (19 ref.)
Closure of loop ileostomy after restorative proctocolectomy. Lewis P, et al. **Ann R Coll Surg Engl** 1990 Jul;72(4):263-5
Low-dose growth hormone and hypocaloric nutrition attenuate the protein-catabolic response after major operation. Jiang ZM, et al. **Ann Surg** 1989 Oct; 210(4):513-24; discussion 524-5
Effects of age and body composition on the metabolic responses to elective colon resection. Watters JM, et al. **Ann Surg** 1990 Aug;212(2):213-20
Subtotal colectomy for familial polyposis. A clinical series and review of the literature. Skinner MA, et al. **Arch Surg** 1990 May;125(5):621-4 (31 ref.)
Adaptive changes in ileal mucosal nutrient transport following colectomy and endorectal ileal pull-through with ileal reservoir. Stelzner M, et al. **Arch Surg** 1990 May; 125(5):586-90
Constipation: another indication for restorative proctocolectomy. Hosie KB, et al. **Br J Surg** 1990 Jul; 77(7):801-2
Totally stapled abdominal restorative proctocolectomy [letter; comment] Lehur PA, et al. **Br J Surg** 1990 May; 77(5):594 Comment on: Br J Surg 1989 Sep;76(9):961-4.
Pouch size: the important functional determinant after restorative proctocolectomy. Oresland T, et al. **Br J Surg** 1990 Mar;77(3):265-9
Restorative proctocolectomy is the first choice elective surgical treatment for ulcerative colitis. Williams NS. **Br J Surg** 1989 Nov;76(11):1109-10 (12 ref.)
Intraoperative disseminated intravascular coagulation in a patient with ulcerative colitis. Wong TZ, et al. **Conn Med** 1989 Oct;53(10):577-8
Clinical relapse of Crohn's disease under standardized conservative treatment and after excisional surgery. Dirks E, et al. **Dig Dis Sci** 1989 Dec;34(12):1832-40
Ileal adenomas in postcolectomy patients with familial adenomatosis coli/Gardner's syndrome. Incidence and endoscopic appearance. Iida M, et al. **Dis Colon Rectum** 1989 Dec;32(12):1034-8
Internal anal sphincter function after total abdominal colectomy and stapled ileal pouch-anal anastomosis without mucosal proctectomy. Lavery IC, et al. **Dis Colon Rectum** 1989 Nov;32(11):950-3
Anal manometry with microtransducer technique before and after restorative proctocolectomy. Sphincter function and clinical correlations. Lindquist K. **Dis Colon Rectum** 1990 Feb;33(2):91-7; discussion 97-8
A multicenter trial of the use of the proteolytic enzyme inhibitor aprotinin in colorectal surgery. Sheridan WG, et al. **Dis Colon Rectum** 1989 Jun;32(6):505-8
Pouchitis. Shepherd NA, et al. **Int J Colorectal Dis** 1989 Dec;4(4):205-29 (58 ref.)
Colectomy for necrotizing amebic pancolitis in early childhood with survival. Lami JL, et al. **J Pediatr Surg** 1989 Nov;24(11):1174-6 (17 ref.)
Prophylactic colectomy in Ehlers-Danlos syndrome with colonic ectasia. Shi EC, et al. **J Pediatr Surg** 1989 Nov; 24(11):1187-8
Obstructing carcinoma of the left colon managed by subtotal colectomy [letter; comment] Byrne DJ. **J R Coll Surg Edinb** 1989 Dec;34(6):340 Comment on: J R Coll Surg Edinb 1989 Feb;34(1):25-6.
Early effects of colectomy and endorectal pullthrough operation on biliary lipid composition. Kelly RE Jr, et al. **J Surg Res** 1990 Aug;49(2):111-5
Nephrolithiasis and urine ion changes in ulcerative colitis patients undergoing colectomy and endorectal ileal pullthrough. Stelzner M, et al. **J Surg Res** 1990 Jun; 48(6):552-6
The function of the intestinal microflora in patients with ulcerative colitis before and after colectomy. Leijonmarck CE, et al. **Scand J Gastroenterol** 1990 Jun;25(6):585-93
Segmental colonic resection is an appropriate operation for short skip lesions due to Crohn's disease in the colon. Allan A, et al. **World J Surg** 1989 Sep-Oct;13(5):611-4; discussion 615-6
[Subtotal colectomy in the treatment of obstructive tumors in the left half of the colon] Suchý T, et al. **Rozhl Chir** 1990 Mar;69(3):153-8 (Eng. Abstr.) (Cze)
[Rectal micropolyps after total colectomy in familial polyposis. Efficacy of sulindac] Charneau J, et al. **Gastroenterol Clin Biol** 1990;14(2):153-7 (Eng. Abstr.) (Fre)
[Peri-appendiceal inflammatory granuloma. An abscessed pseudocancer of the cecum. Value of echography and partial right colectomy (letter)] Steiner E, et al. **J Chir (Paris)** 1990 Jan;127(1):45-6 (Fre)
[Early postoperative intestinal motility following abdominal surgery in an animal experiment] Schippers E, et al. **Langenbecks Arch Chir** 1990;375(3):175-80 (Eng. Abstr.) (Ger)
[Rectum prolapse: resection or abdominal rectopexy] Nöll B, et al. **Leber Magen Darm** 1989 Jul;19(4):180-9 (Eng. Abstr.) (Ger)
[Crohn disease and ulcerative colitis from the surgical viewpoint] Paskuda P, et al. **Versicherungsmedizin** 1989 Sep 1;41(5):168-71 (Eng. Abstr.) (Ger)
[Ulcerative colitis and primary sclerosing cholangitis—does proctocolectomy have a therapeutic effect?] Dirks E, et al. **Z Gastroenterol** 1990 Apr;28(4):222-4 (Ger)
[Proctocolectomy and ileo-anal reservoir in the treatment of ulcerous rectocolitis and diffuse colonic polyposis. A report on the Italian registry and on a new model of the 3-loop reservoir] Pescatori M. **Minerva Chir** 1989 Aug 31; 44(15-16):1875-7 (Ita)
[Mesenteric desmoid found after surgery of familial polyposis coli; a case report] Tarui Y, et al. **Rinsho Hoshasen** 1990 Jun;35(6):749-52 (Eng. Abstr.) (Jpn)
[Successful induction chemotherapy after colectomy in a case of acute lymphoblastic leukemia associated with obstructive ileus caused by sigmoid colon carcinoma] Shimamoto T, et al. **Rinsho Ketsueki** 1990 Feb;31(2):249-53 (Eng. Abstr.) (Jpn)
[Indications for temporary diversions and for primary resections in emergency colon surgery] Mogoş D, et al. **Rev Chir [Chir]** 1989 Nov-Dec;38(6):431-6 (Eng. Abstr.) (Rum)
[Restoration of intestinal continuity 12 years after subtotal colectomy] Mustiats AP, et al. **Klin Khir** 1990;(2):62 (Rus)
[Dilatation of the rectal stump in anal stricture and rectal fistula after subtotal colectomy for nonspecific ulcerative colitis] Mustiats AP, et al. **Klin Khir** 1990;(2):64 (Rus)

ADVERSE EFFECTS

Severe posthemicolectomy diarrhea: evaluation and treatment with SMS 201-995. Sharkey MF, et al. **Gastroenterology** 1990 Oct;99(4):1144-8

Gynaecological problems related to anatomical changes after conventional proctocolectomy and ileostomy. Wikland M, et al. **Int J Colorectal Dis** 1990 Feb;5(1):49-52

Adenocarcinoma of the ileostomy: the latent risk of cancer after colectomy for ulcerative colitis and familial polyposis. Gadacz TR, et al. **Surgery** 1990 Jun;107(6):698-703 (25 ref.)

Enteroliths in association with right hemicolectomy for cecal carcinoma. Gordin SJ, et al. **W V Med J** 1990 Jul; 86(7):292-3

[Resection of colon carcinoma; conventional or no-touch isolation technic?] Oldhoff J. **Ned Tijdschr Geneeskd** 1989 Jul 22;133(29):1436-8 (Dut)

[Fistula following emergency total colectomy: an efficient method of treatment] Sammarco G, et al. **Minerva Chir** 1990 Apr 30;45(8):599-602 (Eng. Abstr.) (Ita)

[Endolymphatic administration of antibiotics in the complex treatment of patients with postoperative infiltrate in the abdominal cavity] Zubarev PN, et al. **Klin Khir** 1990; (1):42-3 (Eng. Abstr.) (Rus)

HISTORY

Anal ileostomy with sphincter preservation in patients requiring total colectomy for benign conditions. 1948 [classical article] Ravitch MM. **Dis Colon Rectum** 1990 Jun; 33(6):529-38

INSTRUMENTATION

[A technic of peranal anastomosis] Putzki H. **Chirurg** 1990 Feb;61(2):133 (Ger)

METHODS

Conversion of malfunctioning J pouch to Kock's pouch. Case report. Kusunoki M, et al. **Acta Chir Scand** 1990 Feb; 156(2):179-81

Surgical management of the acutely obstructed colon [letter; comment] Flynn CL. **Am J Surg** 1990 Feb;159(2):269-70 Comment on: Am J Surg 1988 Sep;156(3 Pt 1):163-8.

Totally stapled abdominal restorative proctocolectomy [see comments] Kmiot WA, et al. **Br J Surg** 1989 Sep; 76(9):961-4 Comment in: Br J Surg 1990 May;77(5):594.

Videoproctographic assessment after restorative proctocolectomy. Kmiot WA, et al. **Dis Colon Rectum** 1990 Jul;33(7):566-72

Adaptative changes in terminal ileum after total colectomy, mucosal proctectomy and straight ileo-anal anastomosis in chronic ulcerative colitis. Naik SR, et al. **Indian J Gastroenterol** 1990 Jan;9(1):69-72

Functioning neorectum. Rangabashyam N, et al. **Indian J Gastroenterol** 1990 Jan;9(1):35-6

Conservative proctocolectomy with low transection of the anorectum is a poor alternative to conventional proctocolectomy in inflammatory bowel disease. Winslet MC, et al. **Int J Colorectal Dis** 1990 May;5(2):117-9

Proctocolectomy and ileostomy for ulcerative colitis: the longer term story. Phillips RK, et al. **J R Soc Med** 1989 Jul;82(7):386-7

Colonic resection in the treatment of complete rectal prolapse. Solla JA, et al. **Neth J Surg** 1989 Dec;41(6):132-5 (24 ref.)

Restorative proctocolectomy with ileal reservoir: indications and results. Nicholls RJ. **Schweiz Med Wochenschr** 1990 Apr 7;120(14):485-8

[Creating a pelvic reservoir in the surgical treatment of ulcerative colitis and familial polyposis of the colon] Damgaard B, et al. **Ugeskr Laeger** 1990 Jan 8;152(2):103-5 (Eng. Abstr.) (Dan)

['Restorative' proctocolectomy: first-choice surgery in ulcerative colitis] van Vroonhoven TJ, et al. **Ned Tijdschr Geneeskd** 1990 Jun 30;134(26):1244-6 (Dut)

[One-stage subtotal colectomy in the emergency treatment of occlusive left colonic neoplasms] Alle JL, et al. **Acta Chir Belg** 1990 May-Jun;90(3):86-8 (Eng. Abstr.) (Fre)

[Multiple cancers of the colon. Cancers and polyps. Should total colectomy be performed?] Gallot D. **Ann Chir** 1989; 43(9):709-13; discussion 713-5 (Fre)

[Restorative protocolectomy with a reservoir in familial rectocolonic polyposis] Nicholls RJ. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):178-80 (Fre)

[Single-stage excision anastomosis of left colonic obstruction excision treated as an emergency] Ambrosetti P, et al. **Chirurgie** 1989;115 Suppl 2:I-VII (Eng. Abstr.) (Fre)

[The direct ileum pouch-anal anastomosis. Clinical and functional continence results] Braun J, et al. **Chirurg** 1989 Sep;60(9):578-83 (Ger)

[Experiences with the endorectal ileal pull-through operation with lateral ileal reservoir following colectomy in ulcerative colitis and colonic polyps] Fonkalsrud EW, et al. **Chirurg** 1989 Sep;60(9):573-7 (Ger)

[Primary wound healing of the sacral cavity following rectum amputation, also a comment on the discussion contribution by G. Jatzko and D. Schlapper, Chirurg (1988) 59: 855] Hüskes KP, et al. **Chirurg** 1989 Dec;60(12):878-80; discussion 880-1 (Eng. Abstr.) (Ger)

[Longitudinal myotomy as an alternative to conventional pouch procedures following proctocolectomy] Imhof M, et al. **Chirurg** 1989 Sep;60(9):584-8 (Ger)

[Radical surgery in severe ulcerative colitis. A 3-stage procedure without permanent ileostomy] Utsunomiya J, et al. **Chirurg** 1989 Sep;60(9):565-72 (Ger)

[Securing colon anastomoses by surrounding it with a polyglycolic acid filament net. An animal experiment study] Kreischer HP, et al. **Langenbecks Arch Chir** 1990; 375(4):200-4 (Eng. Abstr.) (Ger)

[Differential surgical treatment of ileus of the large intestine] Gebhardt C, et al. **Zentralbl Chir** 1990;115(2):77-88 (Eng. Abstr.) (Ger)

[Current principles in surgical therapy of rectal cancer] Saviano MS. **Minerva Med** 1989 Oct;80(10):1097-101 (27 ref.) (Eng. Abstr.) (Ita)

[Endoscopic polypectomy in children] Rasiński A, et al. **Pediatr Pol** 1989 Feb;64(2):117-22 (Pol)

[Practical aspects of intracolonoscopic polypectomy] Regula J, et al. **Wiad Lek** 1989 Aug 15-Sep 15;42(16-18):996-9 (Eng. Abstr.) (Pol)

[Surgical tactics in cancer of the colon complicated by intestinal obstruction] Tetdoev AM, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):64-7 (Eng. Abstr.) (Rus)

[Simultaneous resection with the creation of 2 anastomoses in synchronous multiple primary cancer of the large intestine] Tsariuk VF, et al. **Khirurgiia (Mosk)** 1990 Apr; (4):61-4 (Eng. Abstr.) (Rus)

[Restoration of intestinal continuity after right-side hemicolectomy] Dumanskii IuV, et al. **Klin Khir** 1990; (2):28-30 (Eng. Abstr.) (Rus)

[Left-side hemiproctocolectomy with inversion ileotransverso-anastomosis and lowering of the terminal segment of the ileum to the anal sphincter] Egiazarian VT, et al. **Vestn Khir** 1989 Nov;143(11):127-8 (Rus)

[Selection of the anastomosis in right-side hemicolectomy] Ivanov MA. **Vestn Khir** 1989 Jun;142(6):144-7 (44 ref.) (Rus)

[End-to-end anastomosis in right-sided hemicolectomy] Kariakin AM, et al. **Vestn Khir** 1989 Dec;144(12):21-6 (Eng. Abstr.) (Rus)

[Diagnosis and treatment of acute intestinal obstruction in cancer of the colon] Topuzov EG. **Vestn Khir** 1989 Dec; 144(12):76-8 (Rus)

[Surgical treatment of dolichosigmoid and its torsion] Zemlianoĭ AG, et al. **Vestn Khir** 1989 Nov;143(11):28-30 (Rus)

[Immediate and late results of exclusion of the colon in diverticulosis] Zemlianoĭ IuA, et al. **Vestn Khir** 1989 Jun; 142(6):32-5 (Eng. Abstr.) (Rus)

[Total colectomy in necrotizing enterocolitis] Vilariño Mosquera A, et al. **An Esp Pediatr** 1989 Dec;31(6):542-4 (Eng. Abstr.) (Spa)

[Reservoir surgery in ulcerative colitis is performed with best results at county hospitals] Hellers G, et al. **Lakartidningen** 1990 Jan 17;87(3):104 (Swe)

STATISTICS & NUMERICAL DATA

Factors affecting colectomy rate in ulcerative colitis: an epidemiologic study. Leijonmarck CE, et al. **Gut** 1990 Mar; 31(3):329-33

Trends in the surgical management of inflammatory disease of the colon at the University of Nebraska Medical Center. Blatchford GJ, et al. **Nebr Med J** 1989 Oct;74(10):299-302

VETERINARY

Large intestinal capacity, retention times, and turnover rates of particulate ingesta associated with extensive large-colon resection in horses. Bertone AL, et al. **Am J Vet Res** 1989 Sep;50(9):1621-7

Fiber digestion and voluntary intake in horses after adaptation to extensive large-colon resection. Bertone AL, et al. **Am J Vet Res** 1989 Sep;50(9):1628-32

Treatment of right dorsal ulcerative colitis in a horse. Simmons TR, et al. **J Am Vet Med Assoc** 1990 Feb 1; 196(3):455-8

Enteric function in cats after subtotal colectomy for treatment of megacolon. Gregory CR, et al. **Vet Surg** 1990 May-Jun;19(3):216-20

COLEONOL see **FORSKOLIN**

COLEOPTERA

Effects of pesticides on filth fly predators (Coleoptera: Histeridae, Staphylinidae; Acarina: Macrochelidae, Uropodidae) in caged layer poultry manure. Wills LE, et al. **J Econ Entomol** 1990 Apr;83(2):451-7

Injuries from Coleoptera. Southcott RV. **Med J Aust** 1989 Dec 4-18;151(11-12):654-9

[Blister dermatitis caused by Epicauta flagellaria (Erichson) (Coleoptera: Meloidae) species] Méndez E, et al. **Rev Med Panama** 1989 Sep;14(3):139-44 (Eng. Abstr.) (Spa)

ANALYSIS

[Ultraviolet spectrophotometric determination of cantharidin in Mylabris] Liu L, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jul;14(7):424-5, 447 (Eng. Abstr.) (Chi)

GENETICS

Karyotypes of Bembidion quadrimaculatum (L.) and Clivina fossor (L.) (Coleoptera: Carabidae). Rożek M. **Folia Biol (Krakow)** 1989;37(3-4):151-4

METABOLISM

Seasonal changes of cadmium and copper levels in stem-boring larvae of Agapanthia villosoviridescens (Coleoptera) on salt marshes of the Westerschelde Estuary. Hemminga MA, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):747-54

Characterisation of neuropeptides of the AKH/RPCH-family from corpora cardiaca of Coleoptera. Gäde G. **J Comp Physiol [B]** 1989;159(5):589-96

Evidence for the expression of a glucuronic acid-containing epitope in the central nervous system of two insects (Calliphora vicina, Diptera; Tenebrio molitor, Coleoptera). Breidbach O, et al. **Neurosci Lett** 1990 Feb 16;109(3):265-70

PARASITOLOGY

A study on the life-cycle and epidemiology of Pseudanoplocephala crawfordi Baylis, 1927. Jiang TJ, et al. **J Helminthol** 1990 Mar;64(1):54-61

Dung beetles, Onthophagus spp., as potential transport hosts of feline coccidia. Saitoh Y, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):293-7

PHYSIOLOGY

Spectral sensitivity of the compound eyes in two day-active fireflies (Coleoptera: Lampyridae: Lucidota). Lall AB, et al. **J Comp Physiol [A]** 1989 Dec;166(2):257-60

Parasites and predators associated with blow flies and flesh flies in Cairo region. Shaumar NF, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):123-32

COLESTIPOL see under **POLYAMINES**

COLESTYRAMIN see **CHOLESTYRAMINE**

COLIC

Infants' colic and belly massage. Larsen JH. **Practitioner** 1990 Apr 22;234(1487):396-7

BLOOD

Motilin and infantile colic. A prospective study. Lothe L, et al. **Acta Paediatr Scand** 1990 Apr;79(4):410-6

CHEMICALLY INDUCED

Familial occurrence of opioid-induced biliary colic [letter] Orstavik KH. **Lancet** 1989 Oct 7;2(8667):874-5

[Drug-induced nephropathy and hemorrhagic cystitis as an adverse reaction to kanamycin] Fushtel IM, et al. **Klin Med (Mosk)** 1989 Aug;67(8):105 (Rus)

DIAGNOSIS

Polarized light microscopic examination of human bile in the diagnosis of microlithiasis of the gallbladder. Gogna A, et al. **Trop Gastroenterol** 1989 Jul-Sep;10(3):167-72

[Colic-like pains. A benign tumor of the small intestine accompanied by invagination] Kirchner B, et al. **Radiologe** 1990 Jan;30(1):39-41 (Ger)

[Rotated, exceedingly movable kidney vascularized by four atypically branched arteries as a cause of periodic urinary retention in the pyelo-caliceal system and masked by biliary colic] Bujak M. **Pol Tyg Lek** 1989 May 1-8;44(18-19):433-5 (Eng. Abstr.) (Pol)

DIET THERAPY

Colic and the effect of changing formulas: a double-blind, multiple-crossover study. Forsyth BW. **J Pediatr** 1989 Oct; 115(4):521-6

Dietary treatment of infant colic: a double-blind study. Campbell JP. **J R Coll Gen Pract** 1989 Jan;39(318):11-4

DRUG THERAPY

Unreliable effect of nifedipine in relieving renal colic [letter] Lheureux P, et al. **Ann Emerg Med** 1990 Jul;19(7):841-2

Rectal diclofenac compared with pethidine injection in acute renal colic. Thompson JF, et al. **BMJ** 1989 Nov 4; 299(6708):1140-1

Treatment of ureteric colic. Intravenous versus rectal administration of indomethacin. Nissen I, et al. **Br J Urol** 1990 Jun;65(6):576-9

Mylicon drops in the treatment of infant colic. Becker N, et al. **Clin Ther** 1988;10(4):401-5

Intramuscular diclofenac sodium versus intravenous Baralgin in the treatment of renal colic. Sanahuja J, et al. **DICP** 1990 Apr;24(4):361-4

Treatment of biliary colic and acute cholecystitis with prostaglandin synthetase inhibitors [letter; comment] Svanvik J, et al. **Dig Dis Sci** 1990 Feb;35(2):284 Comment on: Dig Dis Sci 1989 Jun;34(6):809-11.

Preventing a hot gallbladder: promising new application of a new drug. Borum M, et al. **Gastroenterology** 1990 Jan; 98(1):240-1

Lysine acetyl salicylic acid in acute renal pain. Youssef HA, et al. **Int Urol Nephrol** 1989;21(3):245-9

A double-blind single dose comparison of intramuscular ketorolac tromethamine and pethidine in the treatment of renal colic. Oosterlinck W, et al. **J Clin Pharmacol** 1990 Apr;30(4):336–41

Effect of yeast lactase enzyme on "colic" in infants fed human milk. Miller JJ, et al. **J Pediatr** 1990 Aug;117(2 Pt 1):261–3

Nifedipine in intestinal colic [letter] al-Waili NS. **JAMA** 1990 Jun 27;263(24):3258

Indomethacin in the treatment of ureteral colic. Holmlund DE, et al. **Surg Forum** 1978;29:639–41

[Effect of cimetropium bromide in the treatment of colic in the first 3 months of life. Randomized study] Gomirato G, et al. **Minerva Pediatr** 1989 May;41(5):259–62 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Acute hemolytic anemia and biliary colic as presenting manifestations of Wilson's disease. Jain S, et al. **Am J Gastroenterol** 1990 Apr;85(4):476–8

Carcinoma of the appendix presenting as biliary colic. Straughn JC, et al. **Am J Gastroenterol** 1989 Oct; 84(10):1334–5

Villous adenoma of the ampulla of Vater. An unusual cause of biliary colic and obstructive jaundice. Sobol S, et al. **Gastroenterology** 1978 Jul;75(1):107–9 (38 ref.)

Infantile colic and food allergy: fact or fiction? [editorial] Sampson HA. **J Pediatr** 1989 Oct;115(4):583–4

Enterobius vermicularis: a possible cause of intestinal colic? [letter] Brewster DH. **J R Coll Gen Pract** 1989 Sep; 39(326):387–8

Hepatobiliary and pancreatic ascariasis in India. Khuroo MS, et al. **Lancet** 1990 Jun 23;335(8704):1503–6

Cow's milk formula and infantile colic [letter] Carey WB. **Pediatrics** 1989 Dec;84(6):1124–5

Colic or milk allergy [letter; comment] Taubman B. **Pediatrics** 1989 Nov;84(5):938–9 Comment on: Pediatrics 1989 Feb;83(2):262–6.

[Ureteral stenosis of appendicular origin, observations apropos of the value of imaging] Goffin C, et al. **Acta Urol Belg** 1989;57(4):811–6 (Eng. Abstr.) **(Fre)**

[Low-fat milk as a cause of infantile colic and failure-to-thrive in the breast-fed baby (editorial)] Dinari G, et al. **Harefuah** 1989 Dec 15;117(12):464–6 **(Heb)**

[Causes of recurrence of pain in patients after cholecystectomy and its treatment] Kochnev OS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):46–51 (Eng. Abstr.) **(Rus)**

[Congenital obstruction of the pyelo-ureteral junction as a cause of recurrent abdominal pain] García Algar O, et al. **An Esp Pediatr** 1990 Feb;32(2):183–5 **(Spa)**

[Bladder instability and abdominal pain in children] García Nieto V, et al. **An Esp Pediatr** 1990 Feb;32(2):159–62 (Eng. Abstr.) **(Spa)**

METABOLISM

Macromolecular absorption in infants with infantile colic. Lothe L, et al. **Acta Paediatr Scand** 1990 Apr;79(4):417–21

Breath hydrogen excretion in infants with colic [letter] Miller JJ, et al. **Arch Dis Child** 1990 Feb;65(2):248

Type II errors [letter; comment] Mauro RD. **J Pediatr** 1990 May;116(5):837–8 Comment on: J Pediatr 1989 Oct;115(4):592–4.

PHYSIOPATHOLOGY

Colic. Colon AR, et al. **Am Fam Physician** 1989 Dec; 40(6):122–4

The circadian rhythm of biliary colic. Rigas B, et al. **J Clin Gastroenterol** 1990 Aug;12(4):409–14

Colonic hydrogen production in infants with colic [see comments] Hyams JS, et al. **J Pediatr** 1989 Oct; 115(4):592–4 Comment in: J Pediatr 1990 May;116(5):837–8.

PREVENTION & CONTROL

Colic [letter] Schnur W. **Am Fam Physician** 1990 Sep; 42(3):586, 588

Re: Indomethacin as prophylaxis against ureteral colic following extracorporeal shock wave lithotripsy [letter; comment] Gleeson MJ. **J Urol** 1990 Mar;143(3):586 Comment on: J Urol 1989 Jan;141(1):9–12.

Use of indomethacin suppositories in the prophylaxis of recurrent ureteral colic. Kapoor DA, et al. **J Urol** 1989 Dec;142(6):1428–30

PSYCHOLOGY

Infantile colic and transient developmental lag in the first year of life. Sloman J, et al. **Child Psychiatry Hum Dev** 1990 Fall;21(1):25–36

[Psychophysiologic analysis of painful emotional stress in children with abdominal pain syndrome] D'iachkova GI, et al. **Anesteziol Reanimatol** 1989 Jul-Aug;(4):42–4 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Urography during renal colic. Smith I. **Br J Surg** 1966 Feb; 53(2):93–102

RADIONUCLIDE IMAGING

Nuclear scintigraphy in the evaluation of renal colic. Brown RK, et al. **Clin Nucl Med** 1990 Jan;15(1):11–5

SURGERY

Cholecystectomy provides long-term symptom relief in patients with acalculous gallbladders. Gilliland TM, et al. **Am J Surg** 1990 May;159(5):489–92

THERAPY

The effects of contingent music and differential reinforcement on infantile colic. Larson K, et al. **Behav Res Ther** 1990; 28(2):119–25

Infantile colic treated by chiropractors: a prospective study of 316 cases [letter] Charlton K. **J Manipulative Physiol Ther** 1990 Jun;13(5):288

Analgesic effect of acupuncture on acute intestinal colic in 190 cases. Jiang R. **J Tradit Chin Med** 1990 Mar;10(1):20–1

Acupuncture treatment of 182 cases of abdominal colic due to calculi in the urinary system. Yang DL. **J Tradit Chin Med** 1989 Dec;9(4):247–8

VETERINARY

Equine myenteric ganglionitis: a case of chronic intestinal pseudo-obstruction. Burns GA, et al. **Cornell Vet** 1990 Jan; 80(1):53–63

Enteric pythiosis in a horse. Allison N, et al. **J Am Vet Med Assoc** 1990 Feb 1;196(3):462–4

Blood viscosity in horses with colic. Andrews FM, et al. **J Vet Intern Med** 1990 Jul-Aug;4(4):183–6

Serum lipids and lipoproteins in equine colic and grass sickness. Milne EM, et al. **Res Vet Sci** 1990 Mar;48(2):170–4

Caecal intussusception in two ponies. Milne EM, et al. **Vet Rec** 1989 Aug 12;125(7):148–50

[Meadow saffron (Colchicum autumnale) in hay and colic in horses] Kamphues J, et al. **Tierarztl Prax** 1990 Jun; 18(3):273–5 (Eng. Abstr.) **(Ger)**

COLICIN FACTORS see under **PLASMIDS**

COLICINES see **COLICINS**

COLICINS

Application of molecular dynamics in the crystallographic refinement of colicin A. Postma JP, et al. **Acta Crystallogr A** 1989 Jul 1;45 (Pt 7):471–7

Solution NMR studies of colicin E1 C-terminal thermolytic peptide. Structural comparison with colicin A and the effects of pH changes. Wormald MR, et al. **Eur J Biochem** 1990 Jul 20;191(1):155–61

Nucleotide sequences of the tolA and tolB genes and localization of their products, components of a multistep translocation system in Escherichia coli. Levengood SK, et al. **J Bacteriol** 1989 Dec;171(12):6600–9

Virulence-related genes in ColV plasmids of Escherichia coli isolated from human blood and intestines. Fernandez-Beros ME, et al. **J Clin Microbiol** 1990 Apr;28(4):742–6

Site-directed mutagenesis of colicin E1 provides specific attachment sites for spin labels whose spectra are sensitive to local conformation. Todd AP, et al. **Proteins** 1989; 6(3):294–305

ANALYSIS

Interaction of the pore-forming domain of colicin A with phospholipid vesicles. Massotte D, et al. **Biochemistry** 1989 Sep 19;28(19):7713–9

ANTAGONISTS & INHIBITORS

Molecular structure and immunity specificity of colicin E6, an evolutionary intermediate between E-group colicins and cloacin DF13. Akutsu A, et al. **J Bacteriol** 1989 Dec; 171(12):6430–6

Crystallization and preliminary x-ray investigation of colicin E3 in complex with its immunity protein. Frolow F, et al. **J Biol Chem** 1990 Jun 25;265(18):10196–7

BIOSYNTHESIS

[Spontaneous synthesis of colicin] Rekesh AN, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):231–43 (Eng. Abstr.) **(Rus)**

[Colicinogenotypes of Shigella sonnei strains isolated in the West Slovakian Region 1983–1988] Majtánová L. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jun;39(3):161–5 (Eng. Abstr.) **(Slo)**

GENETICS

Assembly of colicin genes from a few DNA fragments. Nucleotide sequence of colicin D. Roos U, et al. **Mol Microbiol** 1989 Jul;3(7):891–902

METABOLISM

Release of penicillinase by Escherichia coli HB101 (pEAP31) accompanying the simultaneous release of outer-membrane components by Kil peptide. Aono R. **Biochem J** 1989 Oct 1;263(1):65–71

Uptake across the cell envelope and insertion into the inner membrane of ion channel-forming colicins in E coli. Baty D, et al. **Biochimie** 1990 Feb-Mar;72(2-3):123–30 (60 ref.)

Complex formed by complementary RNA stem-loops and its stabilization by a protein: function of ColE1 Rom protein. Eguchi Y, et al. **Cell** 1990 Jan 26;60(2):199–209

Colicin N forms voltage- and pH-dependent channels in planar lipid bilayer membranes. Wilmsen HU, et al. **Eur Biophys J** 1990;18(3):149–58

A 136-amino-acid-residue COOH-terminal fragment of colicin A is endowed with ionophoric activity. Baty D, et al. **Eur J Biochem** 1990 Apr 30;189(2):409–13

Colicins: prokaryotic killer-pores. Pattus F, et al. **Experientia** 1990 Feb 15;46(2):180–92 (98 ref.)

Synthesis and sequence-specific proteolysis of a hybrid protein (colicin A::growth hormone releasing factor) produced in Escherichia coli. Geli V, et al. **Gene** 1989 Aug 1;80(1):129–36

Colicin cleavage by OmpT protease during both entry into and release from Escherichia coli cells. Cavard D, et al. **J Bacteriol** 1990 Feb;172(2):648–52

Activation of expression of the Escherichia coli cir gene by an iron-independent regulatory mechanism involving cyclic AMP-cyclic AMP receptor protein complex. Griggs DW, et al. **J Bacteriol** 1990 Jun;172(6):3529–33

Alteration of the pH-dependent ion selectivity of the colicin E1 channel by site-directed mutagenesis. Jakes KS, et al. **J Biol Chem** 1990 Apr 25;265(12):6984–91

Localization of the site of cleavage of ribosomal RNA by colicin E3. Placement on the small ribosomal subunit by electron microscopy of antibody—complementary oligodeoxynucleotide complexes. Lasater LS, et al. **J Biol Chem** 1989 Dec 25;264(36):21798–805

The 3' terminal colicin fragment of Escherichia coli 16S ribosomal RNA. Conformational details revealed by enzymic and chemical probing. Heus HA, et al. **J Biomol Struct Dyn** 1988 Feb;5(4):951–63

Formation of ion channels by colicin B in planar lipid bilayers [published erratum appears in J Membr Biol 1990 Jun;116(2):185] Bullock JO, et al. **J Membr Biol** 1990 Mar; 114(1):79–95

Insights into membrane insertion based on studies of colicins. Parker MW, et al. **Trends Biochem Sci** 1990 Apr;15(4):126–9 (27 ref.)

PHARMACOKINETICS

Comparison of the uptake systems for the entry of various BtuB group colicins into Escherichia coli. Benedetti H, et al. **J Gen Microbiol** 1989 Dec;135 (Pt 12):3413–20

PHARMACOLOGY

Lack of inhibition by colicin M suggests bactoprenol independence of MDO biosynthesis. Harkness RE, et al. **FEBS Lett** 1990 Mar 26;262(2):245–8

Colicin N and its thermolytic fragment induce phospholipid vesicle fusion. Massotte D, et al. **FEBS Lett** 1989 Nov 6; 257(2):447–50

Immunoprotective oral whole cell vaccine for enterotoxigenic Escherichia coli diarrhea prepared by in situ destruction of chromosomal and plasmid DNA with colicin E2. Evans DJ Jr, et al. **FEMS Microbiol Immunol** 1988 Jan;1(1):9–18

The structurally related exbB and tolQ genes are interchangeable in conferring tonB-dependent colicin, bacteriophage, and albomycin sensitivity. Braun V. **J Bacteriol** 1989 Nov;171(11):6387–90

Characterization of ompF domains involved in Escherichia coli K-12 sensitivity to colicins A and N. Fourel D, et al. **J Bacteriol** 1990 Jul;172(7):3675–80

In vitro peptidoglycan synthesis by envelopes from Escherichia coli tolM mutants is inhibited by colicin M. Harkness RE, et al. **J Bacteriol** 1990 Jan;172(1):498–500

In vivo properties of colicin A: channel activity is voltage dependent but translocation may be voltage independent. Bourdineaud JP, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1037–41

COLIFORM BACILLI see **ENTEROBACTERIACEAE**

COLINUS see under **QUAIL**

COLIPASES see under **PROTEINS**

COLIPHAGE LAMBDA see **PHAGE LAMBDA**

COLIPHAGE MU see **PHAGE MU**

COLIPHAGE PHI X 174 see **PHAGE PHI X 174**

COLIPHAGES

Analysis of time-resolved fluorescence anisotropy in lipid-protein systems. I. Application to the lipid probe octadecyl rhodamine B in interaction with bacteriophage M13 coat protein incorporated in phospholipid bilayers. Peng K, et al. **Eur Biophys J** 1990;18(5):277–83

Analysis of time-resolved fluorescence anisotropy in lipid-protein systems. II. Application to tryptophan fluorescence of bacteriophage M13 coat protein incorporated in phospholipid bilayers. Peng K, et al. **Eur Biophys J** 1990;18(5):285–93

ANALYSIS

Environmental modulation of M13 coat protein tryptophan fluorescence dynamics. Johnson ID, et al. **Biochemistry** 1989 Jul 25;28(15):6392–400

DRUG EFFECTS

[Quantitative evaluation of comparative resistance of various phages and viruses to monochloramine-B] Liarskiĭ PP, et al. **Gig Sanit** 1990 Mar;(3):22-5 **(Rus)**

ENZYMOLOGY

Bacteriophage-associated glycan hydrolases specific for Escherichia coli capsular serotype K12. Altmann F, et al. **Eur J Biochem** 1990 Apr 30;189(2):307-12

Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase. Dale EC, et al. **Gene** 1990 Jul 2;91(1):79-85

Sequence similarity of bacteriophage SP02 DNA polymerase with E. coli DNA polymerase I. Iwabe N, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8866

The highly conserved amino acid sequence motif Tyr-Gly-Asp-Thr-Asp-Ser in alpha-like DNA polymerases is required by phage phi 29 DNA polymerase for protein-primed initiation and polymerization. Bernad A, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4610-4

GENETICS

Secondary structural features of the bacteriophage Mu-encoded A and B transposition proteins. Chaconas G, et al. **Biochem J** 1989 Oct 1;263(1):19-23

Properties of the bacteriophage alpha 3 mutants with deletion and/or insertion in the complementary strand origin. Nakano K, et al. **Biochim Biophys Acta** 1990 Jan 30; 1048(1):43-9

The o4 repressors of bacteriophages P1 and P7 are antisense RNAs. Citron M, et al. **Cell** 1990 Aug 10;62(3):591-8

Initial steps in protein membrane insertion. Bacteriophage M13 procoat protein binds to the membrane surface by electrostatic interaction. Gallusser A, et al. **EMBO J** 1990 Sep;9(9):2723-9

Efficient translocation of positively charged residues of M13 procoat protein across the membrane excludes electrophoresis as the primary force for membrane insertion. Kuhn A, et al. **EMBO J** 1990 Aug;9(8):2385-8, 2429

Translational regulation of M13 gene II protein by its cognate single-stranded DNA binding protein. Zaman GJ, et al. **Eur J Biochem** 1990 Apr 20;189(1):119-24

The P2 phage old gene: sequence, transcription and translational control. Haggård-Ljungquist E, et al. **Gene** 1989 Dec 21;85(1):25-33

Phage Trojan horses: a conditional expression system for lethal genes. Heitman J, et al. **Gene** 1989 Dec 21;85(1):193-7

Distinct functional contributions of three potential secondary structures in the phage G4 origin of complementary DNA strand synthesis. Hiasa H, et al. **Gene** 1989 Dec 7; 84(1):17-22

Mutational analysis of the primer RNA template region in the replication origin (oric) of bacteriophage G4: priming signal recognition by Escherichia coli primase. Hiasa H, et al. **Gene** 1989 Dec 7;84(1):9-16

Specificity of Escherichia coli mutD and mutL mutator strains. Wu TH, et al. **Gene** 1990 Mar 1;87(1):1-5

The structurally related exbB and tolQ genes are interchangeable in conferring tonB-dependent colicin, bacteriophage, and albomycin sensitivity. Braun V. **J Bacteriol** 1989 Nov;171(11):6387-90

A mutation of the transactivation gene of satellite bacteriophage P4 that suppresses the rpoA109 mutation of Escherichia coli. Halling C, et al. **J Bacteriol** 1990 Jul; 172(7):3541-8

Bacteriophage P2 ogr and P4 delta genes act independently and are essential for P4 multiplication. Halling C, et al. **J Bacteriol** 1990 Jul;172(7):3549-58

Methyl-directed repair of frameshift heteroduplexes in cell extracts from Escherichia coli. Learn BA, et al. **J Bacteriol** 1989 Dec;171(12):6473-81

Sequence analysis of conserved regA and variable orf43.1 genes in T4-like bacteriophages. Miller ES, et al. **J Bacteriol** 1990 Sep;172(9):5180-6

Location of a P1 plasmid replication inhibitor determinant within the initiator gene. Muraiso K, et al. **J Bacteriol** 1990 Aug;172(8):4441-7

New bacteriophage vectors for the large scale production of single stranded insert DNA. Biernat J, et al. **J Biochem Biophys Methods** 1989 Aug-Sep;19(2-3):155-67

Recognition and cleavage signals for mRNA processing lie within local domains of the phage f1 RNA precursors. Blumer KJ, et al. **J Biol Chem** 1989 Dec 5;264(34):20770-7

Mutagenesis by single site-specific arylamine-DNA adducts. Induction of mutations at multiple sites. Gupta PK, et al. **J Biol Chem** 1989 Nov 25;264(33):20120-30

Purification and properties of the bacteriophage P2 ogr gene product. A prokaryotic zinc-binding transcriptional activator. Lee TC, et al. **J Biol Chem** 1990 May 5; 265(13):7472-7

Comparison of Vero-cytotoxin-encoding phages from Escherichia coli of human and bovine origin. Rietra PJ, et al. **J Gen Microbiol** 1989 Aug;135 (Pt 8):2307-18

N4 RNA polymerase II sites of transcription initiation. Abravaya K, et al. **J Mol Biol** 1990 Jan 20;211(2):359-72

Secretion and membrane integration of a filamentous phage-encoded morphogenetic protein. Brissette JL, et al. **J Mol Biol** 1990 Feb 5;211(3):565-80

Control of gene expression in the temperate coliphage 186. VIII. Control of lysis and lysogeny by a transcriptional switch involving face-to-face promoters. Dodd IB, et al. **J Mol Biol** 1990 Jul 5;214(1):27-37

Sequences required for antitermination by phage 82 Q protein. Goliger JA, et al. **J Mol Biol** 1989 Dec 5; 210(3):461-71

Replication enhancer-independent mutation increases the co-operativity with which an initiator protein binds its origin. Greenstein D, et al. **J Mol Biol** 1990 Jan 5; 211(1):91-101

Bacteriophage P1 tail-fibre and dar operons are expressed from homologous phage-specific late promoter sequences. Guidolin A, et al. **J Mol Biol** 1989 Aug 20;208(4):615-22

Organization of the immunity region imm1 of bacteriophage P1 and synthesis of the P1 antirepressor. Heisig A, et al. **J Mol Biol** 1989 Oct 20;209(4):525-38

Plasmid-partition functions of the P7 prophage. Ludtke DN, et al. **J Mol Biol** 1989 Oct 5;209(3):393-406

DNA replication studies with coliphage 186. III. A single phage gene is required for phage 186 replication. Sivaprasad AV, et al. **J Mol Biol** 1990 Jun 5;213(3):449-63

Secondary structure of the central region of bacteriophage MS2 RNA. Conservation and biological significance. Skripkin EA, et al. **J Mol Biol** 1990 Jan 20;211(2):447-63

Specificity and mechanism of antitermination by Q proteins of bacteriophages lambda and 82. Yang XJ, et al. **J Mol Biol** 1989 Dec 5;210(3):453-60

Nonessential region of bacteriophage P4: DNA sequence, transcription, gene products, and functions [published erratum appears in J Virol 1990 Apr;64(4):1878] Ghisotti D, et al. **J Virol** 1990 Jan;64(1):24-36

Q beta RNA bacteriophage: mapping cis-acting elements within an RNA genome. Mills DR, et al. **J Virol** 1990 Aug; 64(8):3872-81

High-level translation initiation. Gold L, et al. **Methods Enzymol** 1990;185:89-93

Saturation mutagenesis using mixed oligonucleotides and M13 templates containing uracil. Horwitz BH, et al. **Methods Enzymol** 1990;185:599-611

Site-directed insertion mutagenesis with cloned fragments in Escherichia coli by P1 phage transduction. Izuhara M, et al. **Mol Gen Genet** 1990 Jan;220(2):339-40

Nucleotide sequence of the region encompassing the int gene of a cryptic prophage and the dna Y gene flanked by a curved DNA sequence of Escherichia coli K12. Muramatsu S, et al. **Mol Gen Genet** 1990 Jan;220(2):325-8

Specificity of spontaneous mutation in the lacI gene cloned into bacteriophage M13. Yatagai F, et al. **Mutat Res** 1990 Jan;243(1):21-8

Database pollution [letter] Stanford DR, et al. **Nature** 1989 Nov 2;342(6245):24

Direct sequencing of double-stranded DNA PCR products via removing the complementary strand with single-stranded DNA of an M13 clone. Gal S, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1076

DNA sequence of satellite bacteriophage P4. Halling C, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1649

The c1 repressor of bacteriophage P1 operator-repressor interaction of wild-type and mutant repressor proteins. Heinrich J, et al. **Nucleic Acids Res** 1989 Oct 11; 17(19):7681-92

Readthrough transcription occurs at the rho dependent signal F1 TIV in suppressor cells. La Farina M, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):865-70

In vitro binding of the bacteriophage f1 gene V protein to the gene II RNA-operator and its DNA analog. Michel B, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7333-44

The c1 genes of P1 and P7. Osborne FA, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7671-80

The genomic DNA phi Fd103 probe is sensitive marker for detection of human hypervariable genomic regions. Rogaev EI, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1081

A phasmid shuttle vector for the cloning of complex operons in Salmonella. Gutmann L, et al. **Plasmid** 1990 Jan; 23(1):42-58

A yeast-Escherichia coli shuttle vector containing the M13 origin of replication. Rhodes N, et al. **Plasmid** 1990 Mar; 23(2):159-62

Genetic effects of thymine glycol: site-specific mutagenesis and molecular modeling studies. Basu AK, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7677-81

Peptides on phage: a vast library of peptides for identifying ligands. Cwirla SE, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6378-82

Improved genetic selection for screening bacteriophage libraries by homologous recombination in vivo. Kurnit DM, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3166-9

Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs. Sternberg N. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):103-7

Three Escherichia coli heat shock proteins are required for P1 plasmid DNA replication: formation of an active complex between E. coli DnaJ protein and the P1 initiator protein. Wickner SH. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2690-4

The sim gene of Escherichia coli phage P1: nucleotide sequence and purification of the processed protein. Maillou J, et al. **Virology** 1990 Apr;175(2):500-7

Identity of genes A2 and A3 of bacteriophage BF23. Rose JD, et al. **Virology** 1990 Aug;177(2):753-5

Characterization of preearly genes in the terminal repetition of bacteriophage BF23 DNA by nucleotide sequencing and restriction mapping. Wiest JS, et al. **Virology** 1990 Aug; 177(2):745-54

[Production of a viable variant of the M13 phage with a foreign peptide inserted into the basic coat protein] Il'ichev AA, et al. **Dokl Akad Nauk SSSR** 1989;307(2):481-3 **(Rus)**

[Integration of phage mu into the RP4::D3112A-plasmid in Escherichia coli cells] Kaplan AM, et al. **Genetika** 1989 Aug;25(8):1384-90 (Eng. Abstr.) **(Rus)**

[Nonisotope variant of genomic fingerprinting based on the phage M13 DNA in kinship studies in man] Prosniak MI, et al. **Genetika** 1990 Jan;26(1):134-7 (Eng. Abstr.) **(Rus)**

[Increase in stability of the recombinant phage M13 carrying Escherichia coli genes rpIJL by reducing expression of cloned genes] Vudmaska MI, et al. **Genetika** 1990 Mar; 26(3):557-9 (Eng. Abstr.) **(Rus)**

[The use of filamentous phage M13 in protein engineering] Il'ichev AA, et al. **Mol Biol (Mosk)** 1990 Mar-Apr; 24(2):530-5 (Eng. Abstr.) **(Rus)**

[UNG-dependent correction of molecular heteroduplexes of M13 phage DNA in Escherichia coli cells] Golubovskaia VM, et al. **Mol Gen Mikrobiol Virusol** 1989 Jul;(7):24-9 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Polymorphonuclear leukocyte stimulation measured by phage inactivation. Ferrini U, et al. **Int Arch Allergy Appl Immunol** 1989;90(3):207-12

[The virological supervision of drinking water quality—a review] Schulze E. **Zentralbl Mikrobiol** 1990;145(2):135-43 (42 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

A phage-linked immunoabsorbant system for the detection of pathologically relevant antigens. Block T, et al. **Biotechniques** 1989 Jul-Aug;7(7):756-61

ISOLATION & PURIFICATION

Tissue distribution of a coliphage and Escherichia coli in mussels after contamination and depuration. Power UF, et al. **Appl Environ Microbiol** 1990 Mar;56(3):803-7

F-specific RNA bacteriophages and sensitive host strains in faeces and wastewater of human and animal origin. Havelaar AH, et al. **J Appl Bacteriol** 1990 Jul;69(1):30-7

Isolation of an Lc-specific Escherichia coli bacteriophage. Fralick JA, et al. **J Bacteriol** 1990 Mar;172(3):1660-2

[Comparative evaluation of Escherichia coli strains as markers for the study of bacteriophages] Liberti R, et al. **Boll Soc Ital Biol Sper** 1990 May;66(5):479-85 (Eng. Abstr.) **(Ita)**

[Enterophages as indicators of the contamination of sewage and water reservoirs by bacteria of the genera Escherichia and Salmonella] Kas'ianenko AM, et al. **Mikrobiol Zh** 1986 May-Jun;48(3):54-8 (Eng. Abstr.) **(Rus)**

[Demonstration of Escherichia coli phages in the seashore zone and the use of this index in microbiological monitoring] Kovaleva NV, et al. **Mikrobiol Zh** 1985 May-Jun;47(3):88-91 (Eng. Abstr.) **(Rus)**

METABOLISM

Pore-forming properties of the adsorption protein of filamentous phage fd. Glaser-Wuttke G, et al. **Biochim Biophys Acta** 1989 Nov 3;985(3):239-47

Interaction between phage G13 and its oligosaccharide receptor studied by equilibrium dialysis. Bruse GW, et al. **J Mol Recognit** 1989 Jul;2(1):18-24

Definition of the phage G13 receptor as structural domains of trisaccharides in Salmonella and Escherichia coli core oligosaccharides. Wollin R, et al. **J Mol Recognit** 1989 Jul; 2(1):37-43

Phage shock protein, a stress protein of Escherichia coli. Brissette JL, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):862-6

[Energy of cooperative transitions in bacteriophage SD] Mrevlishvili GM, et al. **Biofizika** 1990 Mar-Apr; 35(2):263-8 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Escherichia coli tolQ mutants are resistant to filamentous bacteriophages that adsorb to the tips, not the shafts, of conjugative pili. Bradley DE, et al. **J Gen Microbiol** 1989 Jul;135 (Pt 7):1857-63

Dissection of functional domains in phage fd adsorption protein. Discrimination between attachment and penetration sites. Stengele I, et al. **J Mol Biol** 1990 Mar 5;212(1):143-9

Integration host factor is necessary for lysogenization of Escherichia coli by bacteriophage P2. Saha S, et al. **Mol Microbiol** 1990 Jan;4(1):3-11

ULTRASTRUCTURE

ESR of spin-labeled bacteriophage M13 coat protein in mixed phospholipid bilayers. de Jongh HH, et al. **Biochim Biophys Acta** 1990 May 9;1024(1):82-8

The three-dimensional structure of the bacterial virus MS2. Valegård K, et al. **Nature** 1990 May 3;345(6270):36-41

COLIPHAGES T see T-PHAGES

COLISTIN

ANALOGS & DERIVATIVES

Placental transmission of colistimethate. MacAulay MA, et al. **Clin Pharmacol Ther** 1967 Jul–Aug;8(4):578–86

Combination of pipemidic acid, colistin sodium methanesulfonate and nystatin may be less effective than nystatin alone for prevention of infection during chemotherapy-induced granulocytopenia in acute leukemia. Sampi K, et al. **Med Oncol Tumor Pharmacother** 1989;6(4):291–6

THERAPEUTIC USE

Prevention of infection in the neutropenic patient. Verhoef J, et al. **Rev Infect Dis** 1989 Nov–Dec;11 Suppl 7:S1545–50

COLITIS

Colitis cystica profunda. Review of the literature. Guest CB, et al. **Dis Colon Rectum** 1989 Nov;32(11):983–8 (84 ref.)

[A new reliable model for ischemic colitis: preliminary report] Ichihara T, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):295 **(Jpn)**

BLOOD

[Plasma levels of endogenous opioid peptides in patients with chronic colitis] Shafer NP. **Klin Med (Mosk)** 1989 Oct; 67(10):101–3 (Eng. Abstr.) **(Rus)**

[Cyclic nucleotides and serotonin in the blood of patients with functional and inflammatory diseases of the large intestine] Makarian AP, et al. **Lab Delo** 1989;(10):53–6 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

The effect of leukotriene–B4 receptor antagonist, SC–41930, on acetic acid–induced colonic inflammation. Fretland DJ, et al. **Agents Actions** 1989 Jun;27(3–4):395–7

An epidemiologic postmarketing surveillance study of prescription acne medications. Facklam DP, et al. **Am J Public Health** 1990 Jan;80(1):50–3

Collagenous colitis in setting of nonsteroidal antiinflammatory drugs and antibiotics. Giardiello FM, et al. **Dig Dis Sci** 1990 Feb;35(2):257–60

Leukotriene B4 potentiates colonic ulceration in the rat. Wallace JL, et al. **Dig Dis Sci** 1990 May;35(5):622–9

Chemotactic peptide–induced acute colitis in rabbits. LeDuc LE, et al. **Gastroenterology** 1990 Apr;98(4):929–35

Hydrogen peroxide enteritis: the "snow white" sign. Bilotta JJ, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):428–30

The "snow white" sign [letter; comment] Waye JD, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):581–2 Comment on: Gastrointest Endosc 1989 Mar–Apr;35(2)93–4.

Penicillamine–associated total colitis. Houghton AD, et al. **Hepatogastroenterology** 1989 Aug;36(4):198

Colonic inflammation in the rabbit induced by phorbol–12–myristate–13–acetate. Fretland DJ, et al. **Inflammation** 1990 Apr;14(2):143–50

Short chain fatty acid–induced colitis in mice. McCafferty DM, et al. **Int J Tissue React** 1989;11(4):165–8

Non–steroidal anti–inflammatory drugs and the bowel [letter] **Lancet** 1989 Oct 28;2(8670):1047–8

[A case of acute hemorrhagic colitis after oral ingestion of Augmentin (letter)] Klotz F, et al. **Ann Med Interne (Paris)** 1990;141(3):276 **(Fre)**

[Digitalis poisoning with severe ischemic colitis: a favorable course after treatment with specific antibodies (letter)] Bourhis F, et al. **Gastroenterol Clin Biol** 1990;14(1):95 **(Fre)**

[Ischemic colitis as a localized manifestation of ergotism?] Sorf M, et al. **Vnitr Lek** 1990 Feb;36(2):177–9 (Eng. Abstr.) **(Slo)**

COMPLICATIONS

Herpes simplex virus type 1 colitis: an unusual cause of diarrhea. Colemont LJ, et al. **Am J Gastroenterol** 1990 Sep; 85(9):1182–5

Small bowel obstruction due to epiploic appendagitis [letter] Lee MP. **Am J Gastroenterol** 1990 Jun;85(6):771–2

Thrombotic thrombocytopenic purpura following hemorrhagic colitis due to Escherichia coli 0157:H7. Kovacs MJ, et al. **Am J Med** 1990 Feb;88(2):177–9

Intra–epidermal neutrophilic IgA dermatosis with colitis. Wright S, et al. **Br J Dermatol** 1989 Jan;120(1):113–9

Ischemic colitis as a cause of massive lower gastrointestinal bleeding and peritonitis. Report of five cases. Chou YH, et al. **Dis Colon Rectum** 1989 Dec;32(12):1065–70

Microscopic colitis: a new cause of chronic diarrhea in children? Maahako MN, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):21–6

Collagenous colitis, enteropathic arthritis, and autoimmune diseases: results of a patient survey. Roubenoff R, et al. **J Rheumatol** 1989 Sep;16(9):1229–32

Collagenous colitis as a cause of chronic diarrhea [see comments] Bott SJ. **J S C Med Assoc** 1990 Feb;86(2):85–7 Comment in: J S C Med Assoc 1990 Feb;86(2):115–6.

Collagenous colitis [editorial; comment] Vasudeva R. **J S C Med Assoc** 1990 Feb;86(2):115–6 Comment on: J S C Med Assoc 1990 Feb;86(2):85–7.

Unusual combination of an appendicolith in a leukemic patient with typhlitis—ultrasound diagnosis. Rodgers B, et al. **JCU** 1990 Mar–Apr;18(3):191–3

Coeliac disease and collagenous colitis. O'Mahony S, et al. **Postgrad Med J** 1990 Mar;66(773):238–41

[A case of obstructive colitis associated with colon cancer] Chou YH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar; 88(3):302–5 **(Chi)**

[Digestive mastocytosis, allergy to diesel oil and collagen colitis: a rare association? (letter)] Hanslik B, et al. **Gastroenterol Clin Biol** 1990;14(1):98–9 **(Fre)**

[Erythema nodosum in Campylobacter jejuni colitis] Fröhli P, et al. **Schweiz Med Wochenschr** 1990 Jun 23; 120(25):946–7 (Eng. Abstr.) **(Ger)**

[Ischemic colitis as a cause of colon–engendered diarrhea] Huber FB. **Schweiz Rundsch Med Prax** 1990 Jul 17; 79(29–30):882–4 (Eng. Abstr.) **(Ger)**

[Massive lower digestive hemorrhage secondary to cytomegalovirus colitis in a patient with acquired immunodeficiency syndrome (letter)] Pedreira JD, et al. **Med Clin (Barc)** 1989 Sep 16;93(7):276 **(Spa)**

DIAGNOSIS

Shigella colitis with radiological and endoscopic correlation: case report. Zalev AH, et al. **Can Assoc Radiol J** 1989 Dec;40(6):328–30

Can sonography diagnose acute colonic diverticulitis in patients with acute intestinal inflammation? A prospective study. Verbanck J, et al. **JCU** 1989 Nov–Dec;17(9):661–6

Differential diagnosis of colitis. Haggitt RC. **Monogr Pathol** 1990;(31):325–55 (97 ref.)

Kool–Aid colitis [letter] Sack J. **N Engl J Med** 1990 Apr 5;322(14):1012

Colitis: problems in definition and diagnosis. Whitehead R. **Virchows Arch [A]** 1990;417(3):187–90 (48 ref.)

[Ischemic and inflammatory colitis in elderly subjects over 70] Blazquez M, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Oct;25(5):215–9 (Eng. Abstr.) **(Fre)**

[Imaging in ischemic colitis] de La Lande P. **Ann Gastroenteroi Hepatol (Paris)** 1990 Jan–Feb;26(1):15–6 **(Fre)**

[Iconographic rubric.Acute lymphoblastic leukemia] Bourlière–Najean B, et al. **Arch Fr Pediatr** 1989 Dec; 46(10):749–50 **(Fre)**

[Controversy. Apropos of the article by R. Pierrugues et al.: "Collagen colitis. Reflections on 40 patients." Collagen colitis. A difficult diagnosis... (letter)] **Gastroenterol Clin Biol** 1990;14(5):507–9 **(Fre)**

[Ischemic colitis. Clinical, coloscopic and biopsy findings illustrated by 10 cases] Rygh J, et al. **Tidsskr Nor Laegeforen** 1990 May 30;110(14):1825–7 (Eng. Abstr.) **(Nor)**

[Fiber–optic endoscopy of the lower gastrointestinal tract in children] Rasiński A, et al. **Pediatr Pol** 1989 May; 64(5):281–7 (Eng. Abstr.) **(Pol)**

[A case of actinomycosis of the sigmoid in a 41–year–old woman with a clinical appearance of cancer] Milach J, et al. **Wiad Lek** 1989 Jul 1–15;42(13–15):895–8 (Eng. Abstr.) **(Pol)**

[Diseases of the appendiceal epiploica] Abdulzhavadov IM. **Klin Khir** 1990;(4):73–4 **(Rus)**

[Fibrocolonoscopy in patients with intestinal amebiasis] Ivanov KS, et al. **Klin Med (Mosk)** 1989 Oct;67(10):116–8 (Eng. Abstr.) **(Rus)**

[Clinico–morphological criteria of diagnosis of dysentery and Salmonella infections] Shuvalova EP, et al. **Klin Med (Mosk)** 1989 Nov;67(11):112–7 (Eng. Abstr.) **(Rus)**

[Chronic colitis in children] Levin MD. **Pediatriia** 1989; (9):69–73 **(Rus)**

[Acute pansigmoiditis] Magomedov AZ, et al. **Vestn Khir** 1989 Aug;144(8):65–7 **(Rus)**

[A 38–year–old male with abdominal pain, fever and bloody diarrhea (clinical conference)] Díez A, et al. **Med Clin (Barc)** 1990 Apr 14;94(14):548–56 **(Spa)**

[Pneumatosis coli vs. deep cystic colitis] Ruiz–Cabello M, et al. **Rev Esp Enferm Apar Dig** 1989 Oct;76(4):401–4 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Pirenzepine as anti–inflammatory drug in a model of experimental colitis in rat. Bustos–Fernández L, et al. **Acta Physiol Pharmacol Latinoam** 1987;37(4):415–22

Effect of prostaglandin E2 in experimental colitis [letter; comment] Rhodes J, et al. **Gastroenterology** 1989 Nov; 97(5):1356–7 Comment on: Gastroenterology 1989 May;96(5 Pt 1):1290–300.

Treatment with ciprofloxacin of Aeromonas hydrophila associated colitis in a male with antibodies to the human immunodeficiency virus. Liao WC, et al. **J Clin Gastroenterol** 1989 Oct;11(5):552–4

Cyclosporine treatment of fulminant colitis. Hyams JS, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):383–7

Treatment of mucous membrane diseases of the digestive tract with jing jie lian qiao tang—therapeutic effect in 168 cases. Jiang GT, et al. **J Tradit Chin Med** 1989 Dec; 9(4):287–9

Mesalazine (5–aminosalicylic acid) suppositories in the treatment of ulcerative proctitis or distal proctosigmoiditis. A randomized controlled trial. Campieri M, et al. **Scand J Gastroenterol** 1990 Jul;25(7):663–8

[Treatment of radiogenic colitis with a rectal foam containing cortisol. Clinical and pharmacologic data] Szepesi S, et al. **Strahlenther Onkol** 1990 Apr;166(4):271–4 (Eng. Abstr.) **(Ger)**

[Clinical effect of norfloxacin in pediatric field] Ishikawa J, et al. **Jpn J Antibiot** 1990 May;43(5):877–83 (Eng. Abstr.) **(Jpn)**

[Maraslavin in the treatment of chronic colitis] Kazanbiev NK, et al. **Sov Med** 1990;(4):71–3 **(Rus)**

EPIDEMIOLOGY

A christening party outbreak of haemorrhagic colitis and haemolytic uraemic syndrome associated with Escherichia coli O 157.H7. Salmon RL, et al. **Epidemiol Infect** 1989 Oct;103(2):249–54

Inflammatory bowel disease in the elderly. Grimm IS, et al. **Gastroenterol Clin North Am** 1990 Jun;19(2):361–89 (148 ref.)

ETIOLOGY

Acute colitis in renal transplant recipients. Indudhara R, et al. **Am J Gastroenterol** 1990 Aug;85(8):964–8

Ischemic colitis and acalculous necrotizing cholecystitis as rare manifestations of cholesterol emboli in the same patient. Moolenaar W, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1421–2

Colitis caused by food allergy in infants. Hill SM, et al. **Arch Dis Child** 1990 Jan;65(1):132–3

Severe cow's milk induced colitis in an exclusively breast–fed neonate. Case report and clinical review of cow's milk allergy. Wilson NW, et al. **Clin Pediatr (Phila)** 1990 Feb; 29(2):77–80 (24 ref.)

Participation of thromboxane and other eicosanoid synthesis in the course of experimental inflammatory colitis. Vilaseca J, et al. **Gastroenterology** 1990 Feb;98(2):269–77

Chronic colitis after Aeromonas infection [letter; comment] Dickinson RJ, et al. **Gut** 1989 Oct;30(10):1436–7 Comment on: Gut 1989 May;30(5):686–90.

Peculiar acute toxic colitis after ingestion of colocynth: a clinicopathological study of three cases. Goldfain D, et al. **Gut** 1989 Oct;30(10):1412–8

Colonic mucus and colitis [letter] Jass JR. **Gut** 1990 Jun; 31(6):730

Colonic mucus and mucosal glycoproteins: the key to colitis and cancer? Rhodes JM. **Gut** 1989 Dec;30(12):1660–6 (35 ref.)

Rabbit model to evaluate enterovirulence of Bacteroides fragilis. Myers LL, et al. **J Clin Microbiol** 1990 Jul; 28(7):1658–60

Cow's milk protein–induced colitis in the breast–fed infant. Pittschieler K. **J Pediatr Gastroenterol Nutr** 1990 May; 10(4):548–9

Toxigenic Escherichia coli in haemolytic–uraemic syndrome [letter] Pryor W, et al. **Med J Aust** 1990 Feb 19; 152(4):221–2

Aminoglycosides and C. difficile colitis [letter] Chiou CY, et al. **N Engl J Med** 1990 Feb 1;322(5):338

Diversion colitis: a nutritional deficiency syndrome? Agarwal VP, et al. **Nutr Rev** 1989 Sep;47(9):257–61 (28 ref.)

Is human immunodeficiency virus (HIV) rather than cytomegalovirus the cause of retinitis and colitis in HIV–infected patients? Morris DJ. **Rev Infect Dis** 1990 May–Jun;12(3):557–9

Escherichia coli 0157:H7 haemorrhagic colitis. Report of the first South African case. Browning NG, et al. **S Afr J Surg** 1990 Mar;28(1):28–9

Enterohaemorrhagic Escherichia coli. Cryan B. **Scand J Infect Dis** 1990;22(1):1–4 (28 ref.)

[Volvulus of the sigmoid colon and ischemic colitis in Parkinson's disease: the same complication? (letter)] Delpre G, et al. **Gastroenterol Clin Biol** 1990;14(3):286 **(Fre)**

[Etiology of "microscopic colitis" (letter)] Bielefeldt K, et al. **Dtsch Med Wochenschr** 1989 Dec 8;114(49):1940–1 **(Ger)**

[Hospital epidemic of Clostridium difficile diarrhea: demonstration of cross–infection using a typing technic] Cerquetti M, et al. **Ann Ist Super Sanita** 1989;25(2):327–32 (Eng. Abstr.) **(Ita)**

[A case of Salmonella colitis occurred in ulcerative colitis] Takeuchi N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):248–51 **(Jpn)**

[Colitis caused by radiation: 20 years' experience] Monserat R, et al. **GEN** 1989 Jan–Mar;43(1):46–8 (Eng. Abstr.) **(Spa)**

GENETICS

Familial occurrence of collagenous colitis. A report of two families. van Tilburg AJ, et al. **J Clin Gastroenterol** 1990 Jun;12(3):279–85

IMMUNOLOGY

IgG subclass–containing cells in the human large bowel of normal controls, non–IBD colitis, and ulcerative colitis. Iizuka M. **Gastroenterol Jpn** 1990 Feb;25(1):24–31

Antibodies to Escherichia coli 0157 in patients with haemorrhagic colitis and haemolytic uraemic syndrome. Chart H, et al. **J Clin Pathol** 1989 Sep;42(9):973–6

Antireticulin antibodies in collagenous and lymphocytic (microscopic) colitis. Greenson JK, et al. **Mod Pathol** 1990 May;3(3):259–60

Allergy–related proctocolitis in infants: diagnostic usefulness

of rectal biopsy. Winter HS, et al. **Mod Pathol** 1990 Jan; 3(1):5–10

METABOLISM

Role of reactive oxygen metabolites in experimental colitis. Keshavarzian A, et al. **Gut** 1990 Jul;31(7):786–90
Culture of normal and inflamed rabbit colonic explants. Medium–term prostaglandin profile. Nygård G, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1135–44

MICROBIOLOGY

Cytotoxic component(s) of Klebsiella oxytoca on HEp–2 cells. Higaki M, et al. **Microbiol Immunol** 1990;34(2):147–51
Clostridium difficile: clinical considerations. Bartlett JG. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S243–51 (41 ref.)
[Infections by enterohemorrhagic Escherichia coli (EHEC): a clinical and microbiologic problem and a challenge for the public health service] Karch H, et al. **Immun Infekt** 1989 Dec;17(6):206–11 (32 ref.) (Eng. Abstr.) (Ger)

MORTALITY

Mortality from ischemic colitis. Guttormson NL, et al. **Dis Colon Rectum** 1989 Jun;32(6):469–72

PARASITOLOGY

Invasive balantidiasis presented as chronic colitis and lung involvement. Ladas SD, et al. **Dig Dis Sci** 1989 Oct; 34(10):1621–3

PATHOLOGY

Clinical appearances in severe ischaemic colitis. Case report. Magnusson I, et al. **Acta Chir Scand** 1990 Mar;156(3):241–5
Microscopic (collagenous) colitis. Glick SN, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):995–6
The colonic pathology of Escherichia coli 0157:H7 infection. Kelly J, et al. **Am J Surg Pathol** 1990 Jan;14(1):87–92
Histologic spectrum of diversion colitis. Komorowski RA. **Am J Surg Pathol** 1990 Jun;14(6):548–54
Obstructive colitis. Ulceroinflammatory lesions occurring proximal to colonic obstruction. Toner M, et al. **Am J Surg Pathol** 1990 Aug;14(8):719–28
Correlation of in situ hybridization with histology and viral culture in patients with acquired immunodeficiency syndrome with cytomegalovirus colitis [see comments] Clayton F, et al. **Arch Pathol Lab Med** 1989 Oct; 113(10):1124–6 Comment in: Arch Pathol Lab Med 1990 Jul;114(7):639.
Three cases of gangrenous ischaemic colitis. Haleem MA. **Br J Clin Pract** 1989 Jan;43(1):41–2
Collagenous colitis. Bogomoletz WV. **Curr Top Pathol** 1990; 81:219–27 (37 ref.)
Ischaemic colitis. Price AB. **Curr Top Pathol** 1990;81:229–46 (50 ref.)
Lymphocytic (microscopic) colitis. Clinicopathologic study of 18 patients and comparison to collagenous colitis. Giardiello FM, et al. **Dig Dis Sci** 1989 Nov;34(11):1730–8
Microscopic colitis, collagenous colitis, and mast cells [letter] Molas GJ, et al. **Dig Dis Sci** 1990 Jul;35(7):920–1
Pitfalls in the diagnosis of collagenous colitis: experience with 75 cases from a registry of collagenous colitis at the Johns Hopkins Hospital. Lazenby AJ, et al. **Hum Pathol** 1990 Sep;21(9):905–10
Diversion colitis: a clinicopathologic study of 21 cases. Ma CK, et al. **Hum Pathol** 1990 Apr;21(4):429–36
Studies on the mechanisms of mucous cell depletion in experimental colitis. Kaftan SM, et al. **J Pathol** 1989 Sep; 159(1):75–85
Evolution of the concept of proctosigmoiditis: clinical observation. Farmer RG. **Med Clin North Am** 1990 Jan; 74(1):91–102 (53 ref.)
Collagenous colitis with protracted course and fatal evolution. Report of a case. Widgren S, et al. **Pathol Res Pract** 1990 Apr;186(2):303–6; discussion 306–8
[Ischemic colitis: viewpoint of the anatomo–pathologist] Balaton AJ. **Ann Gastroenterol Hepatol (Paris)** 1990 Jan–Feb;26(1):17–8; discussion 19 (Fre)
[Collagen colitis. Reflections apropos of 40 patients] Pierrugues R, et al. **Gastroenterol Clin Biol** 1989 Oct; 13(10):811–5 (Eng. Abstr.) (Fre)
[Diffuse eosinophilic gastroenteropathy] Mastragelopulos N, et al. **Leber Magen Darm** 1990 Mar;2(2):92–5 (Eng. Abstr.) (Ger)
[Collagenous colitis. Studies on the differentiation and incidence of the syndrome] Möhrmann C, et al. **Med Klin** 1989 Sep 15;84(9):434–8 (Eng. Abstr.) (Ger)
[Collagenous colitis] Güller R. **Schweiz Rundsch Med Prax** 1990 Jun 26;79(26):841–3 (Eng. Abstr.) (Ger)
[Cholesterol crystal embolization, a rare cause of postoperative ischemic colitis] Pfeifer M, et al. **Vasa** 1990; 19(1):54–8 (Eng. Abstr.) (Ger)
[Three cases of recurrent ischemic colitis] Hayashi S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1217–22 (14 ref.) (Jpn)

PHYSIOPATHOLOGY

Evidence of free radical (FR) involvement in ischemic colitis. Douglas DM, et al. **Agents Actions** 1989 Jun;27(3–4):435–7
Interleukin 1 (IL–1) gene expression, synthesis, and effect of specific IL–1 receptor blockade in rabbit immune complex colitis. Cominelli F, et al. **J Clin Invest** 1990 Sep; 86(3):972–80
Influence of capsaicin–sensitive fibres on experimentally–induced colitis in rats. Evangelista S, et al. **J Pharm Pharmacol** 1989 Aug;41(8):574–5
Effect of liquid formula diets supplemented with citrus pectin on intestinal structure and function. Rombeau JL, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:27–30

RADIOGRAPHY

Diverting ileostomy for colonic Crohn's disease. Part 2: Radiological findings in the colon following diversion. Friedland GW, et al. **Clin Radiol** 1973 Oct;24(4):435–9
Radiologic findings in hemorrhagic colitis due to Escherichia coli 0157:H7. Shortsleeve MJ, et al. **Gastrointest Radiol** 1989 Fall;14(4):341–4
Lymphoid follicular hyperplasia in excluded colonic segments: a radiologic sign of diversion colitis. Lechner GL, et al. **Radiology** 1990 Jul;176(1):135–6

RADIONUCLIDE IMAGING

[Radionuclide study of the hepatobiliary system in patients with nonspecific ulcerative colitis] Topchiĭ TV. **Vrach Delo** 1990 Mar;(3):89–91 (Rus)

SURGERY

Prognosis after surgery for colonic Crohn's disease. Andrews HA, et al. **Br J Surg** 1989 Nov;76(11):1184–90
Surgical aspects of inflammatory bowel disease. Alexander–Williams J. **Scand J Gastroenterol Suppl** 1990; 172:39–42
[Ischemic colitis in surgery] Cormier JM, et al. **Ann Gastroenterol Hepatol (Paris)** 1990 Jan–Feb;26(1):9–13; discussion 13–4 (23 ref.) (Fre)
[Ischemic colitis] Guivarc'h M. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):181–3 (Fre)

THERAPY

Diversion colitis [letter] Spector P. **J Clin Gastroenterol** 1990 Aug;12(4):480
Interleukin 1 suppresses inflammation in rabbit colitis. Mediation by endogenous prostaglandins. Cominelli F, et al. **J Clin Invest** 1990 Feb;85(2):582–6
Bacteriotherapy for clostridium difficile colitis [letter; comment] Wilson KH. **Lancet** 1989 Nov 4;2(8671):1096 Comment on: Lancet 1989 May 27;1(8648):1156–60.
[Conservative therapy of radiation colitis] Heilmann HP. **Dtsch Med Wochenschr** 1989 Sep 22;114(38):1466 (Ger)
[The treatment of irradiation injuries of the colon and rectum] Goto A, et al. **Nippon Geka Hokan** 1988 Nov 1;57(6):540–4 (Eng. Abstr.) (Jpn)
[Laser therapy of chronic proctosigmoiditis at the Morshin health resort] Matsiak IuA, et al. **Klin Khir** 1990;(2):37–8 (Eng. Abstr.) (Rus)
[The clinical efficacy of aerosol drug agents and dried dairy enteral feeding formulae in chronic nonulcerative colitis] Voloshin AI, et al. **Ter Arkh** 1989;61(11):143–5 (Eng. Abstr.) (Rus)
[The differential use of cavitary pelomagnetotherapy in various forms of chronic proctosigmoiditis] Serebrin VN. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Sep–Oct; (5):38–41 (Rus)

VETERINARY

Resistance to development of equine ehrlichial colitis in experimentally inoculated horses and ponies. Palmer JE, et al. **Am J Vet Res** 1990 May;51(5):763–5
Generalised protothecosis in a collie dog. Thomas JB, et al. **Aust Vet J** 1990 Jan;67(1):25–7
Plasmacytic lymphocytic colitis in the dog. Leib MS, et al. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):241–6
Proliferative colitis in ferrets: epithelial dysplasia and translocation. Fox JG, et al. **Vet Pathol** 1989 Nov; 26(6):515–7
Erosive colitis in experimental canine Leishmaniasis. González JL, et al. **Zentralbl Veterinarmed [B]** 1990 Jul; 37(5):377–82
[Two cases of colitis cystica profunda in dogs] Kraft W, et al. **Tierarztl Prax** 1989;17(3):299–302 (Eng. Abstr.) (Ger)

COLITIS, AMEBIC see **DYSENTERY, AMEBIC**

COLITIS, GRANULOMATOUS see **CROHN DISEASE**

COLITIS, MUCOUS see **COLONIC DISEASES, FUNCTIONAL**

COLITIS, PSEUDOMEMBRANOUS see **ENTEROCOLITIS, PSEUDOMEMBRANOUS**

COLITIS, ULCERATIVE

Pathogenesis and management of ulcerative colitis [published erratum appears in Hepatogastroenterology 1990 Feb;37(1):154] Purrmann J, et al. **Hepatogastroenterology** 1989 Aug;36(4):209–12 (21 ref.)
Ulcerative colitis: recent developments. Tytgat KH, et al. **Hepatogastroenterology** 1989 Aug;36(4):179–81 (42 ref.)
Hair loss with ulcerative colitis [letter] Windsor DA. **J R Soc Med** 1990 May;83(5):342
Aetiology and pathogenesis of ulcerative colitis and Crohn's disease. Jewell DP. **Postgrad Med J** 1989 Oct;65(768):718–9 (23 ref.)
[Chronic inflammatory stomach disorders (Crohn disease—ulcerative colitis)] **Internist (Berl)** 1989 Mar;30(3 Suppl [CHRONIS]):1–16 (Ger)

BLOOD

A comparison of serum mucoprotein with serum alpha 1 acid glycoprotein, haptoglobin, and alpha 1 antitrypsin assays in monitoring inflammatory bowel disease. Lubega J, et al. **Clin Chim Acta** 1990 Apr 13;188(1):59–69
Serum selenium concentration in patients with ulcerative colitis. Mortensen PB, et al. **Dan Med Bull** 1989 Dec; 36(6):568–70
Vasoactive intestinal peptide as a laboratory supplement to clinical activity index in inflammatory bowel disease. Duffy LC, et al. **Dig Dis Sci** 1989 Oct;34(10):1528–35
Erythropoietin/haemoglobin relationship in leukaemia and ulcerative colitis. Johannsen H, et al. **Eur J Haematol** 1989 Sep;43(3):201–6
Lack of sex dependence of the serum level of immunoreactive erythropoietin in chronic anemia. Jelkmann W, et al. **Klin Wochenschr** 1989 Dec 4;67(23):1218
Impaired fibrinolytic capacity in patients with inflammatory bowel disease. Gris JC, et al. **Thromb Haemost** 1990 Jun 28;63(3):472–5
[Plasma levels of endogenous opioid peptides in patients with chronic colitis] Shafer NP. **Klin Med (Mosk)** 1989 Oct; 67(10):101–3 (Eng. Abstr.) (Rus)
[The metabolic and phagocytic activities of the neutrophilic granulocytes in patients with nonspecific ulcerative colitis nd Crohn's disease] Blazhenko IL, et al. **Vrach Delo** 1990 Jun;(6):61–2 (Eng. Abstr.) (Rus)

CHEMICALLY INDUCED

Lack of association between oral contraceptive use and ulcerative colitis. Lashner BA, et al. **Gastroenterology** 1990 Oct;99(4):1032–6
A novel method in the induction of reliable experimental acute and chronic ulcerative colitis in mice. Okayasu I, et al. **Gastroenterology** 1990 Mar;98(3):694–702

CLASSIFICATION

Ulcerative colitis and Crohn's disease—one or two diseases? [comment] Mafatka Z. **J Clin Gastroenterol** 1989 Dec; 11(6):712–4 Comment on: J Clin Gastroenterol 1989 Feb;11(1):8–9.

COMPLICATIONS

Gastrojejunocolic fistula and ulcerative colitis. Report of a case. Reaves LE 3d, et al. **Am J Dig Dis** 1966 Mar; 11(3):213–6
Polycythemia rubra vera and ulcerative colitis [letter] Ching CK, et al. **Am J Gastroenterol** 1990 Sep;85(9):1203–4
Balantidiasis complicating a case of ulcerative colitis. Kamberoglou D, et al. **Am J Gastroenterol** 1990 Jun; 85(6):765–6
Colon cancer surveillance in chronic ulcerative colitis: historical cohort study. Lashner BA, et al. **Am J Gastroenterol** 1990 Sep;85(9):1083–7
Reverse correlation between extent of colon involvement and number of affected joints in patients with ulcerative colitis and arthritis [letter] Scarpa R, et al. **Am J Gastroenterol** 1990 Mar;85(3):331–2
Listeria septicemia after colonoscopy in an ulcerative colitis patient receiving ACTH [letter] Shemesh O, et al. **Am J Gastroenterol** 1990 Feb;85(2):216
Coexistence of thyreotoxicosis and exacerbation of ulcerative colitis [letter] Triantafillidis JK, et al. **Am J Gastroenterol** 1990 Jul;85(7):908–10
Management of severe hemorrhage in ulcerative colitis. Robert JH, et al. **Am J Surg** 1990 Jun;159(6):550–5
Ulcerative colitis and colon cancer: the role of surveillance. Broström O. **Ann Med** 1989 Aug;21(4):309–11 (19 ref.)
Anorexia nervosa complicating inflammatory bowel disease. Mallett P, et al. **Arch Dis Child** 1990 Mar;65(3):298–300
Cutaneous gangrene secondary to focal thrombosis—an important cutaneous manifestation of ulcerative colitis. Stapleton SR, et al. **Clin Exp Dermatol** 1989 Sep; 14(5):387–9
Dysplasia and cancer complicating strictures in ulcerative colitis. Lashner BA, et al. **Dig Dis Sci** 1990 Mar; 35(3):349–52
Hazard rates for dysplasia and cancer in ulcerative colitis. Results from a surveillance program. Lashner BA, et al. **Dig Dis Sci** 1989 Oct;34(10):1536–41
Malignant lymphoma in ulcerative colitis. Report of a case. Abulafi AM, et al. **Dis Colon Rectum** 1990 Jul;33(7):615–8 (20 ref.)
Giant inflammatory polyps associated with idiopathic inflammatory bowel disease. An ultrastructural study of five cases. Balázs M. **Dis Colon Rectum** 1990 Sep; 33(9):773–7
Cholelithiasis in inflammatory bowel disease. A case–control study. Lorusso D, et al. **Dis Colon Rectum** 1990 Sep; 33(9):791–4
Increased risk of preterm birth for women with inflammatory bowel disease. Baird DD, et al. **Gastroenterology** 1990 Oct;

99(4):987–94

First manifestation of ulcerative colitis in a patient with HIV infection [letter; comment] Franke M, et al. **Gastroenterology** 1990 Feb;98(2):544–5 Comment on: Gastroenterology 1988 Dec;95(6):1667–9.

Legionella infection in ulcerative colitis [letter] Schmidt T, et al. **Gastroenterology** 1990 Apr;98(4):1107

Carcinoid tumor complicating ulcerative colitis [letter] Farr CM, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):315–6 (10 ref.)

Precancer and cancer in extensive ulcerative colitis: findings among 401 patients over 22 years. Lennard-Jones JE, et al. **Gut** 1990 Jul;31(7):800–6

Takayasu's arteritis associated with idiopathic ulcerative colitis. Sakhuja V, et al. **Gut** 1990 Jul;31(7):831–3

Dysplasia and cancer in ulcerative colitis. Desaint B, et al. **Hepatogastroenterology** 1989 Aug;36(4):219–26 (60 ref.)

Severe ulcerative colitis: a personal point of view. Prantera C, et al. **Hepatogastroenterology** 1989 Aug;36(4):240–3 (25 ref.)

Pancreatitis could be one of the extra-intestinal manifestations of IBD [letter; comment] Veloso T. **Hepatogastroenterology** 1990 Feb;37(1):152 Comment on: Hepatogastroenterology 1989 Jun;36(3):175–7.

Development of colon cancer after liver transplantation for primary sclerosing cholangitis associated with ulcerative colitis. Higashi H, et al. **Hepatology** 1990 Mar;11(3):477–80

Does primary sclerosing cholangitis occurring in association with inflammatory bowel disease differ from that occurring in the absence of inflammatory bowel disease? A study of sixty-six subjects. Rabinovitz M, et al. **Hepatology** 1990 Jan;11(1):7–11

The appendix as a 'skip lesion' in ulcerative colitis. Davison AM, et al. **Histopathology** 1990 Jan;16(1):93–5

Small cell neuroendocrine carcinoma of the rectum associated with chronic ulcerative colitis. Rubin A, et al. **Histopathology** 1990 Jan;16(1):95–7

Lichen planus and ulcerative colitis—is there a relationship? Dhawan SS, et al. **Int J Dermatol** 1989 Oct;28(8):534

Giant inflammatory polyposis in ulcerative colitis presenting with protein losing enteropathy [letter] Bryan RL, et al. **J Clin Pathol** 1990 Apr;43(4):346–7

Obstructive jaundice in a patient with ulcerative colitis, Sjögren's syndrome and sarcoidosis. Johnson CD. **J R Soc Med** 1989 Jun;82(6):362

Inflammatory bowel disease and chronic diffuse hair loss [letter; comment] Marley J. **J R Soc Med** 1989 Dec; 82(12):776 Comment on: J R Soc Med 1989 May;82(5):303–4.

An overlapping case of ulcerative colitis and polymyositis [letter] Kaneoka H, et al. **J Rheumatol** 1990 Feb;17(2):274–6

Ulcerative colitis associated chronic uveitis. Parasitization of intraocular leucocytes by mollicute-like organisms. Wirostko E, et al. **J Submicrosc Cytol Pathol** 1990 Apr; 22(2):231–9

Nephrolithiasis and urine ion changes in ulcerative colitis patients undergoing colectomy and endorectal ileal pullthrough. Stelzner M, et al. **J Surg Res** 1990 Jun; 48(6):552–6

A case of ulcerative colitis with amyloidosis presenting as fever of unknown origin. Khan JA, et al. **JPMA** 1990 May; 40(5):112–3

Cancer in inflammatory bowel disease. Greenstein AJ, et al. **Jpn J Surg** 1989 Nov;19(6):633–44 (95 ref.)

Haemolytic-uraemic syndrome in adults [letter] Hollenbeck M, et al. **Lancet** 1990 Aug 11;336(8711):380

Streptokinase therapy for extensive venous thromboses in a patient with severe ulcerative colitis. Van Woert JH, et al. **Mayo Clin Proc** 1990 Aug;65(8):1144–9

IgA nephropathy complicated by ulcerative colitis. Iida H, et al. **Nephron** 1989;53(3):285–6

Folate, colitis, dysplasia, and cancer. Mason JB. **Nutr Rev** 1989 Oct;47(10):314–7

Inflammatory bowel disease: nutritional implications and treatment. Silk DB, et al. **Proc Nutr Soc** 1989 Sep; 48(3):355–61 (52 ref.)

The association of autoimmune disorders with inflammatory bowel disease. Snook JA, et al. **Q J Med** 1989 Sep; 72(269):835–40

Inflammatory bowel disease and cancer surveillance [editorial] Farmer RG. **Singapore Med J** 1989 Dec; 30(6):517–8

[The course of illness in ulcerative colitis] Perenboom RM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 3;134(9):438–42 (Eng. Abstr.) (Dut)

[Indications for total colo-proctectomy in severe ocular complications of ulcero-hemorrhagic rectocolitis (letter)] Blanc P, et al. **Gastroenterol Clin Biol** 1990;14(2):193–4 (Fre)

[Distal ulcerative colitis with proximal segmental inflammation (letter)] Heidt H, et al. **Dtsch Med Wochenschr** 1989 Sep 29;114(39):1506 (Ger)

[Aortocaval fistula in ulcerative colitis and primary sclerosing cholangitis] Bozkurt T, et al. **Internist (Berl)** 1989 Dec; 30(12):827–9 (Ger)

[A 28-year-old patient with chronic diarrhea, liver disease, pericarditis and polyarthritis. A case report with special reference to the differential diagnosis of arthritis] Hundegger K, et al. **Internist (Berl)** 1990 Mar;31(3):245–8 (Ger)

[Enteropathic arthritis] Klein G, et al. **Internist (Berl)** 1989 Oct;30(10):673–7 (41 ref.) (Ger)

[Cardiac involvement in inflammatory bowel disease] Birnbaum Y, et al. **Harefuah** 1989 Nov 1;117(9):235–7 (Eng. Abstr.) (Heb)

[A rare complication of ulcerative colitis: Bowen's disease in perianal condyloma acuminatum] Balázs M. **Orv Hetil** 1989 Dec 10;130(50):2693–5 (32 ref.) (Eng. Abstr.) (Hun)

[A case of malignant carcinoid arising in chronic ulcerative colitis] Provera P, et al. **Pathologica** 1989 Jul–Aug; 81(1074):447–52 (Eng. Abstr.) (Ita)

[Carcinoma complicating ulcerative colitis. Analysis of 8 Japanese cases] Imamura S. **Fukuoka Igaku Zasshi** 1990 Jan;81(1):5–19 (Eng. Abstr.) (Jpn)

[A case of secondary amyloidosis complicated with ulcerative colitis] Ikezaki N, et al. **Nippon Jinzo Gakkai Shi** 1990 Apr; 32(4):435–9 (Eng. Abstr.) (Jpn)

[A case of Turner's syndrome with ulcerative colitis] Haga H, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct; 78(10):1486–7 (Jpn)

[A case of the patient with ulcerative colitis associated with dilated cardiomyopathy] Fukushima K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jul;86(7):1529–33 (Jpn)

[A case of Salmonella colitis occurred in ulcerative colitis] Takeuchi N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):248–51 (Jpn)

[Ulcerative colitis with localized clustered inflammatory polyposis; report of a case] Suekane H, et al. **Rinsho Hoshasen** 1990 May;35(5):653–6 (Eng. Abstr.) (Jpn)

[A case of myopathy with ulcerative colitis] Hasegawa H, et al. **Rinsho Shinkeigaku** 1990 Feb;30(2):184–8 (Eng. Abstr.) (Jpn)

[Primary sclerosing cholangitis and inflammatory bowel disease] Schrumpf E, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1212–6 (Eng. Abstr.) (Nor)

[Evaluation of blood loss volume and the degree of activity of nonspecific ulcerative colitis by using Cr51-labeled erythrocytes] Kirkin BV, et al. **Khirurgiia (Mosk)** 1990 Mar; (3):57–61 (Eng. Abstr.) (Rus)

[Clinico-radiologic features of the kidneys in patients with nonspecific colitis] Topchiĭ TV, et al. **Klin Khir** 1990; (2):13–6 (Eng. Abstr.) (Rus)

[Perforation of the sigmoid colon during atypical course of nonspecific ulcerative colitis] Tsiurina SD, et al. **Klin Khir** 1990;(2):61–2 (Rus)

[Endogenous toxemia in nonspecific colitis] Golovenko OV, et al. **Sov Med** 1990;(1):67–9 (Rus)

[Vesiculopustular eruption and Sweet syndrome associated with 2 exacerbations of ulcerous colitis in a 76-year-old woman] Villanueva C, et al. **Med Clin (Barc)** 1989 Sep 23;93(8):298–300 (Eng. Abstr.) (Spa)

[Polymyositis and ulcerative colitis. A new form of association? (letter)] Hernández MA, et al. **Neurologia** 1986 May–Jun;1(3):134–5 (Spa)

[Sternal osteomyelitis associated with a severe attack of ulcerative colitis with multiple extra-intestinal manifestations] González Gamarra A, et al. **Rev Clin Esp** 1989 Sep;185(4):191–4 (Eng. Abstr.) (Spa)

DIAGNOSIS

Clinical disease activity and inflammatory activity in the rectum in relation to mucosal inflammation assessed by colonoscopy. A study of children and adolescents with chronic inflammatory bowel disease. Holmquist L, et al. **Acta Paediatr Scand** 1990 May;79(5):527–34

Crohn's disease in ileal J-pouch [letter; comment] Sakanoue Y, et al. **Dis Colon Rectum** 1990 Feb;33(2):167–8 Comment on: Dis Colon Rectum 1989 Aug;32(8):653–8.

Crohn's disease in ileal J-pouch [letter; comment] Sakanoue Y, et al. **Dis Colon Rectum** 1990 Jun;33(6):541 Comment on: Dis Colon Rectum 1989 Aug;32(8):653–8.

Glomerulonephritis associated with inflammatory bowel disease. Report of a patient with chronic ulcerative colitis, sclerosing cholangitis, and acute glomerulonephritis. Wilcox GM, et al. **Gastroenterology** 1990 Mar;98(3):786–91 (37 ref.)

Prognostic value of rectal biopsies in idiopathic ulcerative colitis. Vadera V, et al. **Indian J Gastroenterol** 1989 Oct; 8(4):241–3

Pulmonary functions in ulcerative colitis. Tiwary RS, et al. **J Assoc Physicians India** 1989 Dec;37(12):773–4

Endoscopy: a patient's view. Lydeard S. **Practitioner** 1989 May 8;233(1468):696, 699

Criteria of case definition in Crohn's disease and ulcerative colitis. O'Morain C, et al. **Scand J Gastroenterol Suppl** 1989; 170:7–11; discussion 16–9

Endoscopy in inflammatory bowel disease. Rutgeerts P, et al. **Scand J Gastroenterol Suppl** 1989;170:12–5; discussion 16–9

[Pregnancy in Crohn disease and ulcerative colitis. Maternal and fetal risks] Haverkamp F, et al. **Geburtshilfe Frauenheilkd** 1990 May;50(5):339–43 (35 ref.) (Eng. Abstr.) (Ger)

[Ulcerative colitis or amebic colitis—a case report] Koppatz K, et al. **Z Gesamte Inn Med** 1990 Jan 1;45(1):25–7 (Eng. Abstr.) (Ger)

[Faecal lactate as a disease activity index of ulcerative colitis: application to assessment of efficacy in the treatment with total parenteral nutrition] Nakamura M. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug;86(8):1627–37 (Eng. Abstr.) (Jpn)

[Significance of clinico-morphological and immunological parameters in diagnosing and assessing the intensity of a process in nonspecific ulcerative colitis] Larchenko NT, et al. **Klin Med (Mosk)** 1990 Mar;68(3):116–20 (Rus)

[The determination of the creatine kinase content of the blood in patients with nonspecific ulcerative colitis as a supplementary diagnostic test] Chuvaev IV, et al. **Ter Arkh** 1990;62(2):68–9 (Eng. Abstr.) (Rus)

[A combination of nonspecific ulcerative colitis and fungal lesion] Dekhkan-Khodzhaeva NA, et al. **Ter Arkh** 1990; 62(2):146–7 (Rus)

[The characteristics of the clinical picture and treatment of nonspecific ulcerative colitis and Crohn's disease] Ryss ES, et al. **Ter Arkh** 1990;62(2):150–3 (25 ref.) (Rus)

[Differential diagnosis of nonspecific ulcerative colitis and Crohn disease of the colon] Valtaltis IuV, et al. **Vestn Khir** 1989 Nov;143(11):115–8 (Rus)

[A 38-year-old male with abdominal pain, fever and bloody diarrhea (clinical conference)] Díez A, et al. **Med Clin (Barc)** 1990 Apr 14;94(14):548–56 (Spa)

DIET THERAPY

The 'near-balanced' diet for ulcerative colitis [letter] Bailey N. **S Afr Med J** 1990 Aug 18;78(4):221–2

DRUG THERAPY

Antiinflammatory effects of various drugs on acetic acid induced colitis in the rat. Fitzpatrick LR, et al. **Agents Actions** 1990 Jun;30(3–4):393–402

The therapeutic efficacy of 6-mercaptopurine in refractory ulcerative colitis. Adler DJ, et al. **Am J Gastroenterol** 1990 Jun;85(6):717–22

Double-blind placebo-controlled study of olsalazine in the treatment of ulcerative colitis. Zinberg J, et al. **Am J Gastroenterol** 1990 May;85(5):562–6

An orally active inhibitor of leukotriene synthesis accelerates healing in a rat model of colitis. Wallace JL, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):G527–34

6-Mercaptopurine in the management of inflammatory bowel disease: short- and long-term toxicity. Present DH, et al. **Ann Intern Med** 1989 Oct 15;111(8):641–9

Mechanism of action of 5-aminosalicylic acid and its derivatives. Ireland A, et al. **Clin Sci** 1990 Feb;78(2):119–25 (98 ref.)

Modern treatment of ulcerative colitis. Miner PB Jr, et al. **Compr Ther** 1989 Sep;15(9):38–44 (14 ref.)

Acute pancreatitis during oral 5-aminosalicylic acid therapy. Fiorentini MT, et al. **Dig Dis Sci** 1990 Sep;35(9):1180–2

Active moiety of sulfasalazine [letter] Greenwell BE. **Dig Dis Sci** 1989 Nov;34(11):1804–5

Testing nicotine gum for ulcerative colitis patients. Experience with single-patient trials. Lashner BA, et al. **Dig Dis Sci** 1990 Jul;35(7):827–32

Intermittent therapy with high-dose 5-aminosalicylic acid enemas for maintaining remission in ulcerative proctosigmoiditis. d'Albasio G, et al. **Dis Colon Rectum** 1990 May;33(5):394–7

Sucralfate enema in ulcerative rectosigmoid lesions. Kochhar R, et al. **Dis Colon Rectum** 1990 Jan;33(1):49–51

The role of azathioprine in the management of ulcerative colitis. Lobo AJ, et al. **Dis Colon Rectum** 1990 May; 33(5):374–7

Long-term use of mesalamine enemas to induce remission in ulcerative colitis. Biddle WL, et al. **Gastroenterology** 1990 Jul;99(1):113–8

Pentasa in maintenance treatment of ulcerative colitis [letter; comment] Gionchetti P, et al. **Gastroenterology** 1990 Jan; 98(1):251 Comment on: Gastroenterology 1988 Dec;95(6):1449–53.

Folate supplementation in ulcerative colitis [letter; comment] Ransohoff DF. **Gastroenterology** 1990 Feb;98(2):544 Comment on: Gastroenterology 1989 Aug;97(2):255–9.

Cytoprotection against neutrophil derived hypochlorous acid: a potential mechanism for the therapeutic action of 5-aminosalicylic acid in ulcerative colitis. Dallegri F, et al. **Gut** 1990 Feb;31(2):184–6

Olsalazine versus placebo in the treatment of mild to moderate ulcerative colitis: a randomised double blind trial. Feurle GE, et al. **Gut** 1989 Oct;30(10):1354–61

Topical treatment with 5-aminosalicylic in distal ulcerative colitis by using a new suppository preparation. A double-blind placebo controlled trial. Campieri M, et al. **Int J Colorectal Dis** 1990 May;5(2):79–81

Comparable efficacy of oral 5-aminosalicylic acid (Mesasal) and sulfasalazine in maintaining ulcerative colitis in remission. Eliakim R, et al. **Isr J Med Sci** 1990 Jan; 26(1):47–9

Corticosteroids in ulcerative colitis [letter] Meyers S. **J Clin Gastroenterol** 1990 Aug;12(4):479–80

High-dose methylprednisolone in the treatment of active ulcerative colitis. Rosenberg W, et al. **J Clin Gastroenterol** 1990 Feb;12(1):40–1

Treatment of ulcerative colitis with fish oil n—3-omega-fatty acid: an open trial. Salomon P, et al. **J Clin Gastroenterol** 1990 Apr;12(2):157–61

Azathioprine therapy in chronic ulcerative colitis. Steinhart AH, et al. **J Clin Gastroenterol** 1990 Jun;12(3):271–5

Ulmus macrocarpa hance for the treatment of ulcerative colitis—a report of 36 cases. Ye G, et al. **J Tradit Chin Med** 1990 Jun;10(2):97–8

Selective 5-lipoxygenase inhibition in ulcerative colitis.

Laursen LS, et al. **Lancet** 1990 Mar 24;335(8691):683–5
Preliminary report: cyclosporin in treatment of severe active ulcerative colitis. Lichtiger S, et al. **Lancet** 1990 Jul 7; 336(8706):16–9
Cyclosporin treatment for severe active ulcerative colitis [letter] Porro GB, et al. **Lancet** 1990 Aug 18;336(8712):439
Topical treatment of ulcerative colitis. Sutherland LR. **Med Clin North Am** 1990 Jan;74(1):119–31 (41 ref.)
Sulfapyridine and sulfones decrease glycosaminoglycans viscosity in dermatitis herpetiformis, ulcerative colitis, and pyoderma gangrenosum. Stone OJ. **Med Hypotheses** 1990 Feb;31(2):99–103 (46 ref.)
Assessment of salicylate derivatives for potential use in ulcerative colitis: proposal for a new action of 5-aminosalicylic acid? Roediger WE, et al. **Pharmacology** 1989;39(1):39–45
New salicylate therapies for ulcerative colitis. Bruckstein AH. **Postgrad Med** 1990 Sep 1;88(3):79–82, 84, 89 (19 ref.)
Characteristics of immune-complex-induced chronic experimental colitis in rats with a therapeutic effect of sulphasalazine. Axelsson LG, et al. **Scand J Gastroenterol** 1990 Mar;25(3):203–9
Effects of mesalazine substitution on salicylazosulfapyridine-induced seminal abnormalities in men with ulcerative colitis. Kjaergaard N, et al. **Scand J Gastroenterol** 1989 Sep;24(7):891–6
A comparison of sucralfate and prednisolone enemas in the treatment of active distal ulcerative colitis. Riley SA, et al. **Scand J Gastroenterol** 1989 Oct;24(8):1014–8
Gastrointestinal transit and release of mesalazine tablets in patients with inflammatory bowel disease. Healey JN. **Scand J Gastroenterol Suppl** 1990;172:47–51
[Treatment of ulcerative colitis by traditional Chinese medicine and dynamic study of immune functions] Guo Q, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug; 9(8):472–4, 452 (Eng. Abstr.) **(Chi)**
[Clinical and experimental studies of yiqi huoxue principles in treating ulcerative colitis] Zhao H, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep;9(9):529–32, 515 (Eng. Abstr.) **(Chi)**
[Therapeutic effect of methyl 5-aminosalicylate on experimental ulcerative colitis in rabbits] Liao YZ, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):54–6 (Eng. Abstr.) **(Chi)**
[Azathioprine, 6-mercaptopurine, and inflammatory diseases of the intestine] Beaugerie L, et al. **Gastroenterol Clin Biol** 1990;14(3):230–40 (85 ref.) **(Fre)**
[Individualized sulfasalazine treatment of ulcerative colitis and monitoring of patient compliance by determining sulfapyridine serum concentration] Klugmann HJ, et al. **Gastroenterol J** 1990;49(4):160–4 (Eng. Abstr.) **(Ger)**
[Inflammatory bowel diseases and the course of pregnancy] Rasenack J, et al. **Gynakologe** 1990 Feb;23(1):11–7 (85 ref.) **(Ger)**
[Prevention of recurrence of chronic inflammatory bowel diseases] Dölle W, et al. **Verh Dtsch Ges Inn Med** 1989; 95:322–6 (19 ref.) **(Ger)**
[New developments in the treatment of inflammatory bowel diseases. What is certain?] Feurle GE. **Z Gastroenterol [Verh]** 1990 Apr;25:150–2 (30 ref.) **(Ger)**
[Ulcerative colitis and pregnancy] Flechsig U, et al. **Zentralbl Gynakol** 1989;111(16):1128–31 (Eng. Abstr.) **(Ger)**
[Efficacy and tolerability of 5-aminosalicylic acid in the short-term treatment of ulcerative rectocolitis during the mild or moderate stage] Breaci G, et al. **Minerva Dietol Gastroenterol** 1990 Jan–Mar;36(1):31–3 (Eng. Abstr.) **(Ita)**
[New treatments for ulcerative colitis and Crohn's disease] Jewell DP. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep; 86(9):2323–62 **(Jpn)**
[A case of depression in the treatment of nonspecific ulcerative colitis with sulfasalazine] Rebrov VG, et al. **Klin Med (Mosk)** 1989 Aug;67(8):106 **(Rus)**
[Effectiveness of immunostimulants in nonspecific ulcerative colitis] Pereder'i VG, et al. **Sov Med** 1990;(4):17–9 (Eng. Abstr.) **(Rus)**
[Immunocorrective therapy of chronic nonspecific inflammatory diseases of the intestines (a review of the literature)] Tkach SM, et al. **Vrach Delo** 1989 Sep;(9):58–62 (39 ref.) **(Rus)**

ENZYMOLOGY

Diamine oxidase activities in the large bowel mucosa of ulcerative colitis patients. Mennigen R, et al. **Agents Actions** 1990 Apr;30(1–2):264–6
Na,K-ATPase activity in rectal mucosa of children with ulcerative colitis and Crohn's disease. Ejderhamn J, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1121–5
[Immunocytochemical characterization of the DNA-polymerase alpha-positive colonic mucosal epithelial cells in patients with ulcerative colitis] Matsumoto T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug;86(8):1611–6 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Extracolonic diagnoses in ulcerative colitis: an epidemiological study. Monsén U, et al. **Am J Gastroenterol** 1990 Jun;85(6):711–6
Epidemiology of ulcerative colitis in the Jewish population of central Israel 1970–1980. Grossman A, et al. **Hepatogastroenterology** 1989 Aug;36(4):193–7
Clinical features, morbidity and mortality of Scottish children with inflammatory bowel disease. Barton JR, et al. **Q J Med** 1990 May;75(277):423–39
Incidence of colonic cancer in inflammatory bowel disease. Binder V. **Scand J Gastroenterol Suppl** 1989;170:78; discussion 81–2
Inflammatory bowel disease in Iceland during a 30-year period, 1950–1979. Björnsson S. **Scand J Gastroenterol Suppl** 1989;170:47–9; discussion 50–5
Incidence of inflammatory bowel disease in northwestern France. Preliminary results in region Nord-Pas-de-Calais. Colombel JF, et al. **Scand J Gastroenterol Suppl** 1989; 170:22–4; discussion 50–5
Epidemiology of inflammatory bowel disease in the county of Tübingen (West Germany). Daiss W, et al. **Scand J Gastroenterol Suppl** 1989;170:39–43; discussion 50–5
Cancer risk in ulcerative colitis. Farmer RG. **Scand J Gastroenterol Suppl** 1989;170:75–7; discussion 81–2
Cancer in inflammatory bowel disease. Gyde SN. **Scand J Gastroenterol Suppl** 1989;170:79–80; discussion 79–80
Risk of cancer in inflammatory bowel disease: why are the results in the reviewed literature so varied? Hordijk ML, et al. **Scand J Gastroenterol Suppl** 1989;170:70–4; discussion 81–2 (22 ref.)
Ulcerative colitis in Greece. Epidemiologic and clinical data. Manousos ON, et al. **Scand J Gastroenterol Suppl** 1989; 170:25–6; discussion 50–5
The development of a standardized protocol for a prospective study of inflammatory bowel disease in Europe. Mayberry JF. **Scand J Gastroenterol Suppl** 1989;170:84–5; discussion 86–8
Inflammatory bowel disease in migrant and native Jewish populations of southern Israel. Odes HS, et al. **Scand J Gastroenterol Suppl** 1989;170:36–8; discussion 50–5
Risk factors in inflammatory bowel disease. O'Morain C, et al. **Scand J Gastroenterol Suppl** 1989;170:58–60; discussion 66–8
Inflammatory bowel disease of the Faroe Islands, 1981–1988. A prospective epidemiologic study: primary report. Róin F, et al. **Scand J Gastroenterol Suppl** 1989;170:44–6; discussion 50–5
Inflammatory bowel disease in Oporto. A prospective hospital study. Tavarela Veloso F, et al. **Scand J Gastroenterol Suppl** 1989;170:32–5; discussion 50–5
[Clinico-epidemiologic study on the relation of ulcerative colitis and colonic cancer] Wang JY, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):563–4 (14 ref.) **(Chi)**
[Chronic intestinal inflammatory disease. Review of our case load] Pérez Mota A, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):572–3 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Phagocytes, toxic oxygen metabolites and inflammatory bowel disease: implications for treatment. Williams JG. **Ann R Coll Surg Engl** 1990 Jul;72(4):253–62 (118 ref.)
New directions in the aetiology of ulcerative colitis. Roediger WE. **Aust N Z J Surg** 1990 Mar;60(3):167–9 (22 ref.)
Toxic megacolon and perforation caused by Salmonella [letter; comment] Davson J, et al. **Br J Surg** 1990 Jan; 77(1):117 Comment on: Br J Surg 1989 Aug;76(8):796.
Toxic megacolon and perforation caused by Shigella [letter] Upadhyay AK, et al. **Br J Surg** 1989 Nov;76(11):1217
A meta-analysis of the role of smoking in inflammatory bowel disease. Calkins BM. **Dig Dis Sci** 1989 Dec; 34(12):1841–54
Ulcerative colitis in remission: it is possible to predict the risk of relapse? Leo S, et al. **Digestion** 1989;44(4):217–21
Megacolon in rats. Oliveira JS, et al. **Digestion** 1990; 45(3):166–71
Expression of immune sensitization to epithelial cell-associated components in the cotton-top tamarin: a model of chronic ulcerative colitis. Winter HS, et al. **Gastroenterology** 1989 Nov;97(5):1075–82
Cigarette smoking and ulcerative colitis. A case control study. Lorusso D, et al. **Hepatogastroenterology** 1989 Aug; 36(4):202–4
Salmonellosis: a cause of toxic megacolon [letter] Deppisch LM, et al. **J Clin Gastroenterol** 1990 Aug;12(4):483–5
Ulcerative colitis in a renal transplant patient on azathioprine. Rivera M, et al. **Nephron** 1990;54(3):266–7
Does a common pathophysiological basis exist in the association of ulcerative colitis and Takayasu's aortitis? Report of a case. Ikenaga H, et al. **Postgrad Med J** 1989 Oct;65(768):761–4 (23 ref.)
Platelet-activating factor—a possible mediator in the pathogenesis of ulcerative colitis. Rachmilewitz D, et al. **Scand J Gastroenterol Suppl** 1990;172:19–21
[Chronic atrophic polychondritis associated with psoriasis and ulcero-hemorrhagic rectocolitis (letter)] Veran JL, et al. **Rev Rhum Mal Osteoartic** 1990 May;57(5):442–3 **(Fre)**
[Smoking and inflammatory bowel diseases] Katschinski B, et al. **Z Gastroenterol** 1989 Oct;27(10):614–8 (Eng. Abstr.) **(Ger)**
[Diffuse ulcerative lesions in the colon with intestinal Behçet's disease] Mori S, et al. **Ryumachi** 1989 Jun; 29(3):172–7 (Eng. Abstr.) **(Jpn)**
[The role of the fibrinolysis system in the pathogenesis of various diseases of the digestive tract] Stadnicki A. **Pol Arch Med Wewn** 1987 Dec;78(6):347–54 (0 ref.) **(Pol)**
[Outbreak of ulcerative colitis superinfected with cytomegalovirus. Presentation of a case (letter)] Baliellas C, et al. **Med Clin (Barc)** 1990 Apr 7;94(13):515 **(Spa)**
[Toxic megacolon and intestinal perforation caused by Salmonella enteritidis] Castells A, et al. **Rev Clin Esp** 1990 Apr;186(7):332–4 (14 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

Discordance for ulcerative colitis in identical twins concordant for cholestatic liver disease. Report of 2 cases. Gregg JA, et al. **Am J Dig Dis** 1970 Jul;15(7):667–71
Activation of c-Ki-ras in human gastrointestinal dysplasias determined by direct sequencing of polymerase chain reaction products. Meltzer SJ, et al. **Cancer Res** 1990 Jun 15;50(12):3627–30
HLA-DR, DQ and T cell antigen receptor constant beta genes in Japanese patients with ulcerative colitis. Kobayashi K, et al. **Clin Exp Immunol** 1990 Jun;80(3):400–3
Evidence for a major additive gene in ulcerative colitis. Monsén U, et al. **Clin Genet** 1989 Dec;36(6):411–4
Tissue-specific expression of c-Ha-ras in premalignant gastrointestinal mucosae. Meltzer SJ, et al. **Exp Mol Pathol** 1989 Dec;51(3):264–74
c-Ki-ras mutations in chronic ulcerative colitis and sporadic colon carcinoma. Burmer GC, et al. **Gastroenterology** 1990 Aug;99(2):416–20
Ulcerative colitis and T-cell receptor alpha-chain polymorphisms [letter; comment] Kagnoff MF. **Gastroenterology** 1990 Jul;99(1):288–90 Comment on: Gastroenterology 1989 Nov;97(5):1115–20.
Lack of an association between polymorphisms of the T-cell receptor alpha-chain and ulcerative colitis [see comments] Randolph LM, et al. **Gastroenterology** 1989 Nov; 97(5):1115–20 Comment in: Gastroenterology 1990 Jul;99(1):288–90.
Comparative DNA analyses in longstanding ulcerative colitis with aneuploidy. Löfberg R, et al. **Gut** 1989 Dec; 30(12):1731–6
DNA content in ulcerative colitis. Rutegård J, et al. **Hepatogastroenterology** 1989 Aug;36(4):205–8 (45 ref.)
Study of family history among patients with inflammatory bowel disease. Farmer RG. **Scand J Gastroenterol Suppl** 1989;170:64–5; discussion 66–8
[Wiskott-Aldrich syndrome in an infant with a family history of ulcerative colitis] Holtorp-Tyszkiewiczowa J. **Pediatr Pol** 1989 Mar;64(3):177–80 **(Pol)**

HISTORY

A new type of ileostomy for chronic ulcerative colitis. 1939 [classical article] Catteil RB. **Dis Colon Rectum** 1990 Sep; 33(9):810–3
Anal ileostomy with sphincter preservation in patients requiring total colectomy for benign conditions. 1948 [classical article] Ravitch MM. **Dis Colon Rectum** 1990 Jun; 33(6):529–38

IMMUNOLOGY

Inflammatory bowel disease and ankylosing spondylitis associated with cutaneous vasculitis, glomerulonephritis, and circulating IgA immune complexes. Peeters AJ, et al. **Ann Rheum Dis** 1990 Aug;49(8):638–40
Possible role of vascular endothelial cells in immune responses in colonic mucosa examined immunocytochemically in subjects with and without ulcerative colitis. Matsumoto T, et al. **Clin Exp Immunol** 1989 Dec;78(3):424–30
Effect of human intestinal macrophages on immunoglobulin production by human intestinal mononuclear cells isolated from patients with inflammatory bowel disease. Wu KC, et al. **Clin Exp Immunol** 1990 Jan;79(1):35–40
Immunoglobulin production by isolated intestinal mononuclear cells from patients with ulcerative colitis and Crohn's disease. Wu KC, et al. **Clin Exp Immunol** 1989 Oct;78(1):37–41
IgG subclass-containing cells in the human large bowel of normal controls, non-IBD colitis, and ulcerative colitis. Iizuka M. **Gastroenterol Jpn** 1990 Feb;25(1):24–31
A cell-mediated immune model of inflammatory bowel disease in the rabbit. Rabin BS, et al. **Gastroenterology** 1978 Jul;75(1):29–33
Inflammatory bowel disease: T lymphocytes may be the culprits. Streilein JW. **Gastroenterology** 1978 Jul; 75(1):150–2
Agalactosyl IgG in inflammatory bowel disease: correlation with C-reactive protein. Dubé R, et al. **Gut** 1990 Apr; 31(4):431–4
Histamine release from gut mast cells from patients with inflammatory bowel diseases. Nolte H, et al. **Gut** 1990 Jul; 31(7):791–4
T-cellular immune reactions (in macrophage inhibition factor assay) against Mycobacterium paratuberculosis, Mycobacterium kansasii, Mycobacterium tuberculosis, Mycobacterium avium in patients with chronic inflammatory bowel disease. Seldenrijk CA, et al. **Gut** 1990 May;31(5):529–35
Immunological findings in whole and parotid saliva of patients with ulcerative colitis and healthy controls. Crama-Bohbouth G, et al. **Hepatogastroenterology** 1989

Aug;36(4):185–7

Determination and kinetics of antibody response to Candida albicans in ulcerative colitis. Nagy F, et al. **Hepatogastroenterology** 1989 Aug;36(4):182–4

Immunology of ulcerative colitis. Raedler A, et al. **Hepatogastroenterology** 1989 Aug;36(4):213–8 (20 ref.)

Immunopathology of ulcerative colitis: a review. von Herbay A, et al. **Hepatogastroenterology** 1990 Feb;37(1):99–107 (87 ref.)

Serum antibodies to cow's milk folate-binding protein in patients with chronic inflammatory bowel disease. Høier-Madsen M, et al. **Int J Tissue React** 1989; 11(6):327–32

In vitro cellular cytotoxicity in Crohn's disease and ulcerative colitis: relation with disease activity and treatment, and the effect of recombinant gamma-interferon. Aparició-Pagés MN, et al. **J Clin Lab Immunol** 1989 Jul; 29(3):119–24

Serum bactericidal resistance of faecal Escherichia coli and bactericidal competence of serum from patients with ulcerative colitis. Burke DA, et al. **J Clin Pathol** 1990 Apr; 43(4):316–9

Smoking and inflammatory bowel disease: comparison with systemic lupus erythematosus. A case-control study. Benoni C, et al. **Scand J Gastroenterol** 1990 Jul;25(7):751–5

The immunology of inflammatory bowel disease. Lowes JR, et al. **Springer Semin Immunopathol** 1990;12(2–3):251–68 (104 ref.)

The in vitro effect of corticosteroids on T-lymphocyte subpopulations in patients with ulcerative colitis. Nikolopoulou VN, et al. **Z Gastroenterol** 1990 Feb; 28(2):101–3

[Molecular genetic detection of polyclonal immune response in autoimmune thyroiditis and inflammatory bowel diseases] Kaulfersch W, et al. **Monatsschr Kinderheilkd** 1989 Sep;137(9):610–5 (Eng. Abstr.) **(Ger)**

[A case of ulcerative colitis with positive alkaline phosphatase-linked immunoglobulin] Horie Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1326–30 **(Jpn)**

[Immunohistochemical studies of ulcerative colitis—expression of HLA-DR antigen by colonic epithelium and the role of dendritic cells in the lamina propria] Kimura M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):187–94 (Eng. Abstr.) **(Jpn)**

[Characteristics of lymphoid subpopulations isolated from healthy subjects and those suffering from nonspecific ulcerative colitis] Burmistrova AL, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):318–20 (Eng. Abstr.) **(Rus)**

METABOLISM

Tissue origin of peptide responsive eicosanoid production in rabbit intestine. Leduc LE, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G879–86

Comparison of the single dose pharmacokinetics of sulphasalazine in rheumatoid arthritis and inflammatory bowel disease. Astbury C, et al. **Ann Rheum Dis** 1990 Aug; 49(8):587–90

Fecal anions and lactate in severe ulcerative colitis [letter] Roediger WE. **Dig Dis Sci** 1989 Nov;34(11):1801–2

Chemiluminescence by polymorphonuclear leucocyte subpopulations in chronic inflammatory bowel disease. Influence of the cell separation procedure. Kelleher D, et al. **Digestion** 1990;45(3):158–65

Oxygen-derived free radical generating capacity of polymorphonuclear cells in patients with ulcerative colitis. Shiratora Y, et al. **Digestion** 1989;44(3):163–71

Immunohistological studies of surface antigen on colonic lymphoid cells in normal and inflamed mucosa. Comparison of follicular and lamina propria lymphocytes. Allison MC, et al. **Gastroenterology** 1990 Aug;99(2):421–30

Enhancement of human intestinal mast cell mediator release in active ulcerative colitis. Fox CC, et al. **Gastroenterology** 1990 Jul;99(1):119–24

Epithelial deposition of immunoglobulin G1 and activated complement (C3b and terminal complement complex) in ulcerative colitis. Halstensen TS, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1264–71

Cellular basis for defective electrolyte transport in inflamed human colon. Sandle GI, et al. **Gastroenterology** 1990 Jul; 99(1):97–105

Role of interleukin 1 in inflammatory bowel disease—enhanced production during active disease. Ligumsky M, et al. **Gut** 1990 Jun;31(6):686–9

Toxic oxygen metabolite production by circulating phagocytic cells in inflammatory bowel disease. Williams JG, et al. **Gut** 1990 Feb;31(2):187–93

Smoking, eicosanoids and ulcerative colitis. Motley RJ, et al. **J Pharm Pharmacol** 1990 Apr;42(4):288–9

Cyclic nucleotide concentrations of rectal mucosa in ulcerative colitis. Zlatkina AR, et al. **Scand J Gastroenterol** 1990 Apr;25(4):341–4

[Microspectrophotometric DNA analysis in ulcerative colitis with special reference to its application for cancer and dysplasia diagnosis] Suzuki K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2196–203 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Acute ulcerative proctocolitis associated with primary cytomegalovirus infection. Diepersloot RJ, et al. **Arch Intern Med** 1990 Aug;150(8):1749–51

Chlamydia trachomatis and inflammatory bowel disease—a coincidence? Orda R, et al. **J R Soc Med** 1990 Jan; 83(1):15–7

Hemorrhagic colitis and Escherichia coli O157:H7—identifying a messenger while pursuing the message [comment] Harris AA. **Mayo Clin Proc** 1990 Jun; 65(6):884–8 Comment on: Mayo Clin Proc 1990 Jun;65(6):787–92.

The function of the intestinal microflora in patients with ulcerative colitis before and after colectomy. Leijonmarck CE, et al. **Scand J Gastroenterol** 1990 Jun;25(6):585–93

[Intestinal microflora in patients operated on for nonspecific inflammatory diseases of the colon] Korneva TK, et al. **Klin Med (Mosk)** 1990 Jan;68(1):92–5 **(Rus)**

PATHOLOGY

Studies in longstanding ulcerative colitis with special reference to malignant transformation of the colorectal mucosa. Löfberg R. **Acta Chir Scand Suppl** 1989;552:1–45

Ulcerative colitis and Crohn's disease of the colon. Is there a macroscopic difference? Palnaes Hansen C, et al. **Ann Chir Gynaecol** 1990;79(2):78–81

Anal canal mucosa in restorative proctocolectomy for ulcerative colitis. King DW, et al. **Br J Surg** 1989 Sep; 76(9):970–2

Incidence of dysplasia in the anorectal mucosa in patients having restorative proctocolectomy. Tsunoda A, et al. **Br J Surg** 1990 May;77(5):506–8

Quantitative cytochemical detection of malignant and potentially malignant cells in the colon. Best AJ, et al. **Cancer Res** 1990 Aug 15;50(16):5112–8

Rectal cell proliferation and colon cancer risk in ulcerative colitis. Biasco G, et al. **Cancer Res** 1990 Feb 15;50(4):1156–9

DNA content and mucosal dysplasia in ulcerative colitis. Flow cytometric analysis in patients with dysplastic or indefinite morphologic changes in the colorectal mucosa. Rutegård J, et al. **Dis Colon Rectum** 1989 Dec; 32(12):1055–9

Escherichia coli 0157:H7-associated colitis. A clinical and histological study of 11 cases. Griffin PM, et al. **Gastroenterology** 1990 Jul;99(1):142–9

Colonoscopic surveillance in long-standing total ulcerative colitis—a 15-year follow-up study. Löfberg R, et al. **Gastroenterology** 1990 Oct;99(4):1021–31

Squamous cell metaplasia without dysplasia of the colonic mucosa in ulcerative colitis. Maruoka T, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):65–6

Liver histology and follow up of 68 patients with ulcerative colitis and normal liver function tests. Broomé U, et al. **Gut** 1990 Apr;31(4):468–72

Ulcerative colitis: one disease or two? (Quantitative histological differences between distal and extensive disease). Jenkins D, et al. **Gut** 1990 Apr;31(4):426–30

Diagnosis of ulcerative colitis in endoscopic biopsies. Geboes K, et al. **Hepatogastroenterology** 1989 Aug;36(4):188–92

Observer study of the grading of dysplasia in ulcerative colitis: comparison with clinical outcome. Melville DM, et al. **Hum Pathol** 1989 Oct;20(10):1008–14

Lamina propria eosinophils and mast cells in ulcerative colitis: comparison between Asians and Caucasians. Benfield GF, et al. **J Clin Pathol** 1990 Jan;43(1):27–31

Lamina propria mast cells in ulcerative colitis [letter] Benfield GF, et al. **J Clin Pathol** 1990 Jul;43(7):611

Mucin depletion in inflammatory bowel disease. McCormick DA, et al. **J Clin Pathol** 1990 Feb;43(2):143–6

Relationship between results of laboratory tests and inflammatory activity assessed by colonoscopy in children and adolescents with ulcerative colitis and Crohn's colitis. Holmquist L, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug; 9(2):187–93

Activated eosinophils in chronic inflammatory bowel disease [letter] Choy MY, et al. **Lancet** 1990 Jul 14;336(8707):126–7

Ulcerative colitis in Malaysians: a review of 23 patients. Thein-Htut, et al. **Singapore Med J** 1989 Aug;30(4):385–7

Colonoscopy, mucosal biopsy and brush cytology in the assessment of patients with colorectal inflammatory bowel disease. Isbister WH, et al. **Surg Endosc** 1989;3(3):159–63

Mast cells in ulcerative colitis. Quantitative and ultrastructural studies. Balázs M, et al. **Virchows Arch [B]** 1989;57(6):353–60

[Inflammatory colitis in Tunisian children (apropos of 19 cases)] Ayach R, et al. **Tunis Med** 1989 May;67(5):329–33 (Eng. Abstr.) **(Fre)**

[Mast cells in ulcerative colitis] Balázs M, et al. **Morphol Igazsagugyi Orv Sz** 1989 Jul;29(3):161–9 (Eng. Abstr.) **(Hun)**

[Two cases of ulcerative colitis with colon cancer: immunoperoxidase staining using monoclonal antibodies against gastrointestinal tumor and mucin staining] Okuzumi J, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb; 87(2):181–6 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Growth and development in chronic inflammatory bowel disease. Kirschner BS. **Acta Paediatr Scand Suppl** 1990; 366:98–104; discussion 105 (47 ref.)

Ambulatory anorectal physiology in patients following restorative proctocolectomy for ulcerative colitis: comparison with normal controls. Miller R, et al. **Br J Surg** 1990 Aug;77(8):895–7

Why do patients with ulcerative colitis relapse? Riley SA, et al. **Gut** 1990 Feb;31(2):179–83

Prognosis in ulcerative colitis. Broström O. **Med Clin North Am** 1990 Jan;74(1):201–18 (50 ref.)

Gastrointestinal motility in patients with ulcerative colitis. Rao SS, et al. **Scand J Gastroenterol Suppl** 1990;172:22–8

[Recent knowledge of the pathophysiology of inflammation in Crohn disease and ulcerative colitis: possible sequelae for future treatment concepts] Allgayer H, et al. **Z Gastroenterol** 1990 Feb;28(2):117–20 (61 ref.) (Eng. Abstr.) **(Ger)**

[Digestive and transport processes of the small intestine in ulcerative colitis] Zlatkina AR, et al. **Sov Med** 1990;(1):6–9 **(Rus)**

PREVENTION & CONTROL

Misoprostol provides a colonic mucosal protective effect during acetic acid-induced colitis in rats. Fedorak RN, et al. **Gastroenterology** 1990 Mar;98(3):615–25

Does smoking improve colitis? Rudra T, et al. **Scand J Gastroenterol Suppl** 1989;170:61–3; discussion 66–8

PSYCHOLOGY

The relation of ulcerative colitis to psychiatric factors: a review of findings and methods. North CS, et al. **Am J Psychiatry** 1990 Aug;147(8):974–81 (71 ref.)

Why do patients with ulcerative colitis relapse? [letter] Paulley JW. **Gut** 1990 Aug;31(8):959–60

Determinants of depression in recent onset pediatric inflammatory bowel disease. Burke P, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):608–10

[Questions at the general hospital. Ulcerative colitis and Crohn disease in the light of a discussion on the body and soul] Küppers B. **Psyche (Stuttg)** 1990 Apr;44(4):343–55 (Eng. Abstr.) **(Ger)**

[Treatment of the neurotic syndrome in intestinal pathology] Reshetova TV. **Sov Med** 1989;(10):103–4 **(Rus)**

RADIOGRAPHY

[Radiologic evaluation of ileal reservoirs. Our experience] Genovese MG, et al. **Minerva Chir** 1990 Mar 15;45(5):241–5 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Quantitative distribution of radiolabeled 5-aminosalicylic acid enemas in patients with left-sided ulcerative colitis. Vitti RA, et al. **Dig Dis Sci** 1989 Nov;34(11):1792–7

99mTc-sucralfate scintigraphy in inflammatory bowel disease. Mortensen PB, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1126–8

[Gammagraphy with 111In-labelled leukocytes in an acute outbreak of inflammatory intestinal disease. Evaluation of the localization, extension and degree of activity] Daumal J, et al. **Med Clin (Barc)** 1989 Sep 30;93(9):325–30 (Eng. Abstr.) **(Spa)**

SURGERY

Early outcome after emergency and elective surgery for ulcerative colitis. Frykholm G, et al. **Acta Chir Scand** 1989 Nov–Dec;155(11–12):601–5

Conversion of malfunctioning J pouch to Kock's pouch. Case report. Kusunoki M, et al. **Acta Chir Scand** 1990 Feb; 156(2):179–81

Surgical treatment of ulcerative colitis in Stockholm county. Leijonmarck CE. **Acta Chir Scand Suppl** 1990;554:1–56

Sphincter saving operations for chronic ulcerative colitis. Beart RW Jr. **Adv Surg** 1990;23:195–209 (40 ref.)

Recent studies on ulcerative colitis in Czechoslovakia. Maratka Z. **Am J Gastroenterol** 1966 Jun;45(6):460–72

Massive rectal hemorrhage 3 years after subtotal colectomy for acute ulcerative colitis [letter] May GR, et al. **Am J Gastroenterol** 1990 Aug;85(8):1046–7

Reconstruction of malfunctioning ileoanal pouch procedures as an alternative to permanent ileostomy. Fonkalsrud EW, et al. **Am J Surg** 1990 Sep;160(3):245–51

Colonic metaplasia of ileostomies. Biological significance for ulcerative colitis patients following total colectomy. Berman JJ, et al. **Am J Surg Pathol** 1989 Nov;13(11):955–60

Closure of loop ileostomy after restorative proctocolectomy. Lewis P, et al. **Ann R Coll Surg Engl** 1990 Jul;72(4):263–5

Ileal pouch-anal anastomosis: comparison of results in familial adenomatous polyposis and chronic ulcerative colitis [letter; comment] Braslow L. **Ann Surg** 1990 Jul; 212(1):120–1 Comment on: Ann Surg 1989 Sep;210(3):268–71; discussion 272–3.

Acute ileus from steroid withdrawal simulating intestinal obstruction after surgery for ulcerative colitis. Stelzner M, et al. **Arch Surg** 1990 Jul;125(7):914–7

Quality of life after restorative proctocolectomy. Anseline PF. **Aust N Z J Surg** 1990 Sep;60(9):683–8

Results of 50 ileoanal J pouch operations. Curran FT, et al. **Aust N Z J Surg** 1990 Aug;60(8):579–83

Metabolism of body water and electrolytes after surgery for ulcerative colitis: conventional ileostomy versus J pouch. Christie PM, et al. **Br J Surg** 1990 Feb;77(2):149–51

Pouch size: the important functional determinant after restorative proctocolectomy. Oresland T, et al.

Br J Surg 1990 Mar;77(3):265–9
Function after ileal pouch and stapled pouch-anal anastomosis for ulcerative colitis. Williams NS, et al. Br J Surg 1989 Nov;76(11):1168–71
Restorative proctocolectomy is the first choice elective surgical treatment for ulcerative colitis. Williams NS. Br J Surg 1989 Nov;76(11):1109–10 (12 ref.)
Postoperative pain management in patients with inflammatory bowel disease. Pillow KJ, et al. Can J Anaesth 1990 May;37(4 Pt 2):S63
Intraoperative disseminated intravascular coagulation in a patient with ulcerative colitis. Wong TZ, et al. Conn Med 1989 Oct;53(10):577–8
Stomas in colorectal surgery: options and alternatives. Nasmyth DG. Dig Dis 1990;8(4):240–52 (60 ref.)
Return to normal body composition after ileoanal J-pouch anastomosis for ulcerative colitis. Christie PM, et al. Dis Colon Rectum 1990 Jul;33(7):584–6
Harry E. Bacon oration. Evolution of surgical management of ulcerative colitis. Khubchandani IT. Dis Colon Rectum 1989 Nov;32(11):911–7
Long-term results of ileorectal anastomosis in ulcerative colitis in Stockholm County. Leijonmarck CE, et al. Dis Colon Rectum 1990 Mar;33(3):195–200
Surgical treatment of ulcerative colitis in Stockholm County, 1955 to 1984. Leijonmarck CE, et al. Dis Colon Rectum 1989 Nov;32(11):918–26
Ileoanal anastomosis without covering ileostomy. Matikainen M, et al. Dis Colon Rectum 1990 May;33(5):384–8
Improvement of anal sensation with preservation of the anal transition zone after ileoanal anastomosis for ulcerative colitis. Miller R, et al. Dis Colon Rectum 1990 May; 33(5):414–8
The 'ileal brake' after ileal pouch-anal anastomosis. Soper NJ, et al. Gastroenterology 1990 Jan;98(1):111–6
Endoscopic assessment of acute inflammation of the ileal reservoir after restorative ileo-anal anastomosis. Di Febo G, et al. Gastrointest Endosc 1990 Jan–Feb;36(1):6–9
Gut hormone responses after reconstructive surgery for ulcerative colitis. Greenberg GR, et al. Gut 1989 Dec; 30(12):1721–30
Factors affecting colectomy rate in ulcerative colitis: an epidemiologic study. Leijonmarck CE, et al. Gut 1990 Mar; 31(3):329–33
Surgical treatment of chronic ulcerative colitis. Dozois RR. Hepatogastroenterology 1989 Aug;36(4):227–34 (16 ref.)
Comparative clinical results of ileal-pouch anal anastomosis and ileorectal anastomosis in ulcerative colitis. Parc R, et al. Hepatogastroenterology 1989 Aug;36(4):235–9 (29 ref.)
Adaptative changes in terminal ileum after total colectomy, mucosal proctectomy and straight ileo-anal anastomosis in chronic ulcerative colitis. Naik SR, et al. Indian J Gastroenterol 1990 Jan;9(1):69–72
Functioning neorectum. Rangabashyam N, et al. Indian J Gastroenterol 1990 Jan;9(1):35–6
Restorative proctocolectomy: a procedure for the district general hospital? Davidson BR, et al. Int J Colorectal Dis 1990 Feb;5(1):41–3
Mason Brown lecture, May 1988. Surgery of inflammatory bowel disease in children, with reference to Crohn's disease. Doig CM. J R Coll Surg Edinb 1989 Aug; 34(4):189–96
Proctocolectomy and ileostomy for ulcerative colitis: the longer term story. Phillips RK, et al. J R Soc Med 1989 Jul;82(7):386–7
Surgical alternatives for ulcerative colitis. Jagelman DG. Med Clin North Am 1990 Jan;74(1):155–67 (13 ref.)
Trends in the surgical management of inflammatory disease of the colon at the University of Nebraska Medical Center. Blatchford GJ, et al. Nebr Med J 1989 Oct;74(10):299–302
Restorative proctocolectomy with ileal reservoir: indications and results. Nicholls RJ. Schweiz Med Wochenschr 1990 Apr 7;120(14):485–8
Adenocarcinoma of the ileostomy: the latent risk of cancer after colectomy for ulcerative colitis and familial polyposis. Gadacz TR, et al. Surgery 1990 Jun;107(6):698–703 (25 ref.)
Assessment of anorectal function after mucosal proctectomy and endorectal ileal pullthrough for ulcerative colitis. Stelzner M, et al. Surgery 1990 Feb;107(2):201–8
[Chronic nonspecific intestinal inflammation in older patients and its surgical treatment] Soudek K. Rozhl Chir 1990 Apr; 69(4):316–21 (Eng. Abstr.) (Cze)
[Creating a pelvic reservoir in the surgical treatment of ulcerative colitis and familial polyposis of the colon] Damgaard B, et al. Ugeskr Laeger 1990 Jan 8;152(2):103–5 (Eng. Abstr.) (Dan)
[Ileo-anal anastomosis with ileum reservoir] Slors JF, et al. Ned Tijdschr Geneeskd 1990 Feb 17;134(7):334–7 (Eng. Abstr.) (Dut)
['Restorative' proctocolectomy: first-choice surgery in ulcerative colitis] van Vroonhoven TJ, et al. Ned Tijdschr Geneeskd 1990 Jun 30;134(26):1244–6 (Dut)
[The direct ileum pouch-anal anastomosis. Clinical and functional continence results] Braun J, et al. Chirurg 1989 Sep;60(9):578–83 (Ger)
[Experiences with the endorectal ileal pull-through operation with lateral ileal reservoir following colectomy in ulcerative colitis and colonic polyps] Fonkalsrud EW, et al. Chirurg 1989 Sep;60(9):573–7 (Ger)
[Longitudinal myotomy as an alternative to conventional pouch procedures following proctocolectomy] Imhof M, et al. Chirurg 1989 Sep;60(9):584–8 (Ger)
[Radical surgery in severe ulcerative colitis. A 3-stage procedure without permanent ileostomy] Utsunomiya J, et al. Chirurg 1989 Sep;60(9):565–72 (Ger)
[Crohn disease and ulcerative colitis from the surgical viewpoint] Paskuda P, et al. Versicherungsmedizin 1989 Sep 1;41(5):168–71 (Eng. Abstr.) (Ger)
[Ulcerative colitis and primary sclerosing cholangitis—does proctocolectomy have a therapeutic effect?] Dirks E, et al. Z Gastroenterol 1990 Apr;28(4):222–4 (Ger)
[Toxic megacolon: physiopathologic mechanism and surgical choices] Bucci L, et al. G Chir 1989 Jul–Aug; 10(7–8):379–82 (Eng. Abstr.) (Ita)
[Indications and surgical tactics in ulcerative rectocolitis. Our experience] Pesce G, et al. Minerva Chir 1990 Mar 31; 45(6):343–7 (Eng. Abstr.) (Ita)
[Fistula following emergency total colectomy: an efficient method of treatment] Sammarco G, et al. Minerva Chir 1990 Apr 30;45(8):599–602 (Eng. Abstr.) (Ita)
[Severe ulcerative colitis] Aspenvall L, et al. Tidsskr Nor Laegeforen 1990 May 10;110(12):1520–2 (Eng. Abstr.) (Nor)
[Reconstructive surgery in patients with nonspecific ulcerative colitis and Crohn disease] Fedorov VD, et al. Khirurgiia (Mosk) 1989 Oct;(10):74–7 (Eng. Abstr.) (Rus)
[Prevention of postoperative suppurative complications in patients with inflammatory diseases of the large intestine] Bashankaev NA, et al. Klin Khir 1990;(2):31–2 (Eng. Abstr.) (Rus)
[Reservoir surgery in ulcerative colitis is performed with best results at county hospitals] Hellers G, et al. Lakartidningen 1990 Jan 17;87(3):104 (Swe)
[It is wise to centralize advanced reservoir surgery] Hultén L. Lakartidningen 1990 Jan 24;87(4):190 (Swe)

THERAPY

Ulcerative colitis and marijuana [letter] Baron JA, et al. Ann Intern Med 1990 Mar 15;112(6):471
Ultrasonic mucosal proctectomy in patients with ulcerative colitis. Heimann TM, et al. Ann Surg 1989 Dec; 210(6):787–91
Considerations of surveillance, dysplasia, and carcinoma of the colon in the management of ulcerative colitis and Crohn's disease. Korelitz BI. Med Clin North Am 1990 Jan; 74(1):189–99 (35 ref.)
[The disease course of ulcerative colitis (letter)] Schreve RH, et al. Ned Tijdschr Geneeskd 1990 May 12;134(19):972–3 (Dut)
[Ambulatory treatment of patients with ulcerative colitis] Zlatkina AR, et al. Sov Med 1989;(11):89–92 (Rus)

VETERINARY

Treatment of right dorsal ulcerative colitis in a horse. Simmons TR, et al. J Am Vet Med Assoc 1990 Feb 1; 196(3):455–8

COLLAGEN

Collagen-omental graft in experimental spinal cord transection. de la Torre JC, et al. Acta Neurochir (Wien) 1990;102(3–4):152–63
Clinical use of Zyplast in correction of age- and disease-related contour deficiencies of the face. Matti BA, et al. Aesthetic Plast Surg 1990 Summer;14(3):227–34
Myocardial collagen and mechanics after preventing hypertrophy in hypertensive rats. Narayan S, et al. Am J Hypertens 1989 Sep;2(9):675–82
Type II collagen-induced inner ear disease: critical evaluation of the guinea pig model. Soliman AM. Am J Otol 1990 Jan;11(1):27–32
Structure, molecular biology, and pathology of collagen. Ann N Y Acad Sci 1990;580:1–592
Volume augmentation of the anophthalmic orbit with cross-linked collagen (Zyplast). Cahill KV, et al. Arch Ophthalmol 1989 Nov;107(11):1684–6
Bovine retinal explants cultured in collagen gels. A model system for the study of proliferative retinopathy. Forrester JV, et al. Arch Ophthalmol 1990 Mar;108(3):415–20
Long-term results of a new antithrombogenic cardiac wall substitute. Okoshi T, et al. ASAIO Trans 1989 Jul–Sep; 35(3):391–5
High-resolution solid-state nuclear magnetic resonance spectra of dentin collagen. Fujisawa R, et al. Biochem Biophys Res Commun 1990 Mar 16;167(2):761–6
Monomer and oligomer of type I collagen: molecular properties and fibril assembly. Na GC. Biochemistry 1989 Sep 5;28(18):7161–7
Cross-linking and fluorescence changes of collagen by glycation and oxidation. Fujimori E. Biochim Biophys Acta 1989 Oct 5;998(2):105–10
Comparative analysis of collagens solubilized from human foetal, and normal and osteoarthritic adult articular cartilage, with emphasis on type VI collagen. Ronzière MC, et al. Biochim Biophys Acta 1990 Apr 19; 1038(2):222–30
Liquid crystalline phases of sonicated type I collagen. Giraud-Guille MM. Biol Cell 1989;67(1):97–101
In vivo biocompatibility of collagen-poly(hydroxyethyl methacrylate) hydrogels. Jeyanthi R, et al. Biomaterials 1990 May;11(4):238–43
Formation of continuous collagen fibres: evaluation of biocompatibility and mechanical properties. Kato YP, et al. Biomaterials 1990 Apr;11(3):169–75
Fabrication and reorganization of dermal equivalents suitable for skin grafting after major cutaneous injury. Rowling PJ, et al. Biomaterials 1990 Apr;11(3):181–5
In vivo evaluation and comparison of collagen, acetylated collagen and collagen/glycosaminoglycan composite films and sponges as candidate biomaterials. Srivastava S, et al. Biomaterials 1990 Apr;11(3):155–61
The attachment and growth of an established cell line on collagen, chemically modified collagen, and collagen composite surfaces. Srivastava S, et al. Biomaterials 1990 Apr;11(3):162–8
Energetics of intrachain salt-linkage formation in collagen. Katz EP, et al. Biopolymers 1990 Mar–Apr;29(4–5):791–8
Microwave dielectric study on hydration of moist collagen. Shinyashiki N, et al. Biopolymers 1990 Jul–Aug 5; 29(8–9):1185–91
The relative contribution of electrostatic interactions to stabilization of collagen fibrils. Wallace DG. Biopolymers 1990 May–Jun;29(6–7):1015–26
Crosslinked fibrous collagen for use as a dermal implant: control of the cytotoxic effects of glutaraldehyde and dimethylsuberimidate. Hey KB, et al. Biotechnol Appl Biochem 1990 Feb;12(1):85–93
Low expression of collagen receptors in moderate and poorly differentiated colorectal adenocarcinomas. Pignatelli M, et al. Br J Cancer 1990 Apr;61(4):636–8
Clinical evaluation of a new bilayer "artificial skin" composed of collagen sponge and silicone layer. Suzuki S, et al. Br J Plast Surg 1990 Jan;43(1):47–54
Evaluation of blood vessel and neurite growth into a collagen matrix placed within a surgically created gap in rat spinal cord. Gelderd JB. Brain Res 1990 Mar 12;511(1):80–92
Morphology of fibroblasts in collagen gels: a study using 400 keV electron microscopy and computer graphics. Heath JP, et al. Cell Motil Cytoskeleton 1989;14(3):382–92
Influence of sulfasalazine on established collagen arthritis in rats. Fener P, et al. Clin Exp Rheumatol 1990 Mar–Apr; 8(2):167–70
The chemistry and biology of mineralized tissues: Part II. Proceedings of the third international conference. Chatham, Massachusetts, October 16–21, 1988. Connect Tissue Res 1989;21(1–4):1–296
The chemistry and biology of mineralized tissues. Part I. Proceedings of the third international conference. Chatham, Massachusetts, October 16–21, 1988. Connect Tissue Res 1989;20(1–4):1–329
The effects of noncollagenous matrix proteins on hydroxyapatite formation and proliferation in a collagen gel system. Boskey A, et al. Connect Tissue Res 1989; 21(1–4):171–6; discussion 177–8
Molecular models illustrating the possible distributions of 'holes' in simple systematically staggered arrays of type I collagen molecules in native-type fibrils. Hodge AJ. Connect Tissue Res 1989;21(1–4):137–47
The structure of mineralized collagen fibrils. Katz EP, et al. Connect Tissue Res 1989;21(1–4):149–54; discussion 155–8
BAPN dose dependence of mature crosslinking in bone matrix collagen of rabbit compact bone: corresponding variation of sonic velocity and equatorial diffraction spacing. Lees S, et al. Connect Tissue Res 1990;24(2):95–105
Cross-linking and stereospecific structure of collagen in mineralized and nonmineralized skeletal tissues. Yamauchi M, et al. Connect Tissue Res 1989;21(1–4):159–67; discussion 168–9
The collagen shield. A new vehicle for delivery of cyclosporin A to the eye. Reidy JJ, et al. Cornea 1990 Jul;9(3):196–9
Collagens and elastin: structure and interactions. Tanzer ML. Curr Opin Cell Biol 1989 Oct;1(5):968–73 (29 ref.)
In vivo elimination of T cells expressing specific T-cell receptor V beta chains in mice susceptible to collagen-induced arthritis. Goldschmidt TJ, et al. Immunology 1990 Apr;69(4):508–14
Subcutaneous implantation of hydroxylapatite/collagen in induced diabetic and non-diabetic rats. el Deeb M, et al. Int J Oral Maxillofac Surg 1990 Apr;19(2):113–9
Occurrence in chick embryo vitreous humor of a type IX collagen proteoglycan with an extraordinarily large chondroitin sulfate chain and short alpha 1 polypeptide. Yada T, et al. J Biol Chem 1990 Apr 25;265(12):6992–9
Tissue reaction to subcutaneous implantation of a collagen sponge. A histological, ultrastructural, and immunological study. Anselme K, et al. J Biomed Mater Res 1990 Jun; 24(6):689–703
In vitro properties of crosslinked, reconstituted collagen sheets. Morykwas MJ. J Biomed Mater Res 1990 Aug; 24(8):1105–10
Use of the acyl azide method for cross-linking collagen-rich tissues such as pericardium. Petite H, et al. J Biomed Mater Res 1990 Feb;24(2):179–87
Development and testing of a human collagen graft material. Quteish D, et al. J Biomed Mater Res 1990 Jun;24(6):749–60
A 1H and 13C NMR study on the role of salt-bridges in the formation of a type I beta-turn in

N-acetyl-L-Asp-L-Glu-L-Lys-L-Ser-NH2. Otter A, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):455-76

Familial occurrence of collagenous colitis. A report of two families. van Tilburg AJ, et al. **J Clin Gastroenterol** 1990 Jun;12(3):279-85

The glue protein of ribbed mussels (Geukensia demissa): a natural adhesive with some features of collagen. Waite JH, et al. **J Comp Physiol [B]** 1989;159(5):517-25

Parallel arrangement, growth inhibition and cell cycle phase analysis of human dermal fibroblasts cultured in collagen lattice. Kono T, et al. **J Dermatol** 1990 Jan;17(1):2-10

A new method for culturing human hair follicle cells on floating mixed collagen membranes. Kuwana R, et al. **J Dermatol** 1990 Jan;17(1):11-5

Human leukocyte C1q receptor binds other soluble proteins with collagen domains. Malhotra R, et al. **J Exp Med** 1990 Sep 1;172(3):955-9

Epithelial regeneration in collagen-coated and uncoated patch grafts implanted into dog tracheas. Hirai K, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):51-62

A CD4 cell is capable of transferring suppression of collagen-induced arthritis. Myers LK, et al. **J Immunol** 1989 Dec 15;143(12):3976-80

Long-term culture of fibroblasts in contracted collagen gels: effects on cell growth and biosynthetic activity. Nakagawa S, et al. **J Invest Dermatol** 1989 Dec;93(6):792-8

Human keratinocytes adhere to a unique heparin-binding peptide sequence within the triple helical region of type IV collagen. Wilke MS, et al. **J Invest Dermatol** 1990 Sep; 95(3):264-70

Crystals of the NC1 domain of human type IV collagen. Stubbs M, et al. **J Mol Biol** 1990 Feb 20;211(4):683-4

Cross-linkage sites in type I collagen fibrils studied by neutron diffraction. Wess TJ, et al. **J Mol Biol** 1990 May 5;213(1):1-5

Identification of a cell-surface protein involved in PC12 cell-substratum adhesion and neurite outgrowth on laminin and collagen. Turner DC, et al. **J Neurosci** 1989 Sep; 9(9):3287-96

The use of collagen membrane barriers in conjunction with combined demineralized bone-collagen gel implants in human infrabony defects. Blumenthal N, et al. **J Periodontol** 1990 Jun;61(6):319-27

Biphasic calcium phosphate ceramic combined with fibrillar collagen with and without citric acid conditioning in the treatment of periodontal osseous defects. Nery EB, et al. **J Periodontol** 1990 Mar;61(3):166-72

Intralesional cis-diamminedichloroplatinum and purified collagen treatment of human metastatic malignancies: a feasibility study. Krag DN, et al. **J Surg Oncol** 1990 Feb; 43(2):83-7

Collagen gel cultures for detection of spared hematopoietic progenitors in Asta Z 7557 purged human marrows. Praloran V, et al. **Leukemia** 1990 Apr;4(4):282-6

Interaction of type I collagen fibrils with phospholipid vesicles. Martinez del Pozo A, et al. **Matrix** 1989 Nov; 9(5):405-10

Collagenous proteins multiply [letter] Bamford DH, et al. **Nature** 1990 Apr 5;344(6266):497

Cerebrospinal fluid factors following subarachnoid haemorrhage accelerate collagen lattice contraction by fibroblasts. Smith RR, et al. **Neurol Res** 1990 Mar; 12(1):41-4

The combined use of endosseous dental implants and collagen/hydroxylapatite augmentation procedures for reconstruction/augmentation of the edentulous and atrophic mandible: a preliminary report. Marshall SG. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4 Pt 2):517-25; discussion 525-6

Collagen/hydroxylapatite implant for augmenting deficient alveolar ridges: a 24-month clinical and histologic summary. Mehlisch DR. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4 Pt 2):505-14, discussion 514-6

Adhesion and spreading of corneal endothelial cells on collagens type I and IV in vitro: a model to study mechanisms of endothelial repair. Rixen H, et al. **Res Exp Med (Berl)** 1990;190(3):203-11

Scanning electron microscope observations on collagen fibers in human dentin and pulp. Sögaard-Pedersen B, et al. **Scand J Dent Res** 1990 Apr;98(2):89-95

Achilles tendon replacement by a collagen fiber prosthesis: morphological evaluation of neotendon formation. Wasserman AJ, et al. **Scanning Microsc** 1989 Dec; 3(4):1183-97; discussion 1197-200

Reduction of vinblastine neurotoxicity in mice utilizing a collagen matrix carrier. Sutton R, et al. **Sel Cancer Ther** 1990 Spring;6(1):35-49

Microfibrillar collagen model of canine cerebral infarction. Purdy PD, et al. **Stroke** 1989 Oct;20(10):1361-7

Coverage of full-thickness burns with bilayered skin equivalents: a preliminary clinical trial. Hull BE, et al. **Surgery** 1990 May;107(5):496-502

Epiglottic augmentation in the horse. Tulleners E, et al. **Vet Surg** 1990 May-Jun;19(3):181-90

Experimental evaluation of the net "Dallop" covered with collagen as the dural substitute. Harat M, et al. **Zentralbl Neurochir** 1989;50(3-4):145-8

[Histological study of hydroxylapatite mixed with collagen as osseous implant in mandible] Kao SY, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Oct;44(4):229-34 (Eng. Abstr.) (Chi)

[Collagen as a biomaterial] Adam M, et al. **Cas Lek Cesk** 1989 Oct 13;128(42):1313-7 (Eng. Abstr.) (Cze)

[Experimental models of arthritis induced by various cartilage collagen type] Novotná J, et al. **Cas Lek Cesk** 1989 Jan 27;128(5):139-45 (Eng. Abstr.) (Cze)

[Use of human placental type IV collagen in tympanoplasty. Results of initial animal experimentation] Truy E, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(3):209-13 (Eng. Abstr.) (Fre)

[Controversy. Apropos of the article by R. Pierrugues et al.: "Collagen colitis. Reflections on 40 patients." Collagen colitis. A difficult diagnosis... (letter)] **Gastroenterol Clin Biol** 1990;14(5):507-9 (Fre)

[An animal experiment study using the Gore-Tex soft tissue patch as a replacement for lyophilized dura mater] Schadel A. **HNO** 1990 Mar;38(3):95-8 (Eng. Abstr.) (Ger)

[A new material for closure of traumatic perforation of the tympanic membrane] Hamann KF. **Laryngorhinootologie** 1990 Mar;69(3):173 (Ger)

[Histologic reactions following implantation of a "lyodura-soft" band--animal experiment studies of an abdomino-vaginal sling operation] Kirschbaum M, et al. **Zentralbl Gynakol** 1989;111(15):1049-54 (Eng. Abstr.) (Ger)

[Repair of rabbit articular surfaces with allografts of chondrocytes embedded in collagen gels] Wakitani S, et al. **Nippon Seikeigeka Gakkai Zasshi** 1989 May;63(5):529-38 (Eng. Abstr.) (Jpn)

[Collagen adhesion-aggregation abnormality (2nd report)--congenital platelet membrane glycoprotein VI deficiency] Shinmyozu K, et al. **Rinsho Ketsueki** 1990 May; 31(5):660-4 (Eng. Abstr.) (Jpn)

[The role of thrombocyte prostanoids and products secreted by dense granules in the platelet attachment, spreading and aggregation on collagen substrates] Leitin VL, et al. **Biokhimiia** 1989 Nov;54(11):1804-14 (Eng. Abstr.) (Rus)

[Isolation and purification of biopolymers using an affinity chromatography method. IX. Preparation, properties and use of affinity adsorbents with immobilized polypeptide fragments of collagen] Mitina VKh, et al. **Bioorg Khim** 1989 Nov;15(11):1468-73 (Eng. Abstr.) (Rus)

[Use of collagen sponge in penetrating scleral wounds in diverse parts of the eyeball] Pestova EA, et al. **Vestn Oftalmol** 1990 May-Jun;106(3):63-4 (Rus)

[Collagen plastic surgery in progressive myopia] Svirin AV, et al. **Vestn Oftalmol** 1989 Jul-Aug;105(4):20-5 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Correction of glottic insufficiency by collagen injection. Remacle M, et al. **Ann Otol Rhinol Laryngol** 1990 Jun;99(6 Pt 1):438-44

Initial long-term results of collagen injection for vocal and laryngeal rehabilitation. Remacle M, et al. **Arch Otorhinolaryngol** 1989;246(5):403-6

Collagen sheeting implants in cosmetic and reconstructive surgery. Panje WR, et al. **J Dermatol Surg Oncol** 1990 Sep; 16(9):861-5

Burn wound closure with cultured autologous keratinocytes and fibroblasts attached to a collagen-glycosaminoglycan substrate. Hansbrough JF, et al. **JAMA** 1989 Oct 20; 262(15):2125-30

Gax-collagen injection to correct aspiration problems after subtotal laryngectomy. Remacle M, et al. **Laryngoscope** 1990 Jun;100(6):663-9

Enhanced bioavailability of subcutaneously injected insulin coadministered with collagen in rats and humans. Hori R, et al. **Pharm Res** 1989 Sep;6(9):813-6

[Clinical aspects and pharmacokinetics of collagen-gentamicin as adjuvant local therapy of osseous infections] von Hasselbach C. **Unfallchirurg** 1989 Sep; 92(9):459-70 (Eng. Abstr.) (Ger)

[The morphological justification for the use of collagenoplasty in progressive myopia] Milovanova ZP, et al. **Arkh Patol** 1990;52(1):53-7 (Eng. Abstr.) (Rus)

[Comparative characteristics of the exudate elements of suppurative wounds in their treatment and stimulation of the reparative process with a powder-like composition with collagen base] Mamedov IM, et al. **Klin Khir** 1990; (1):8-10 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Adverse reactions to collagen implants. Zeide DA. **Clin Dermatol** 1986 Jan-Mar;4(1):176-82 (24 ref.)

Use of gelatin matrix implant in patients hypersensitive to bovine collagen. Rosen T, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):848-9

Collagen skin testing [letter] Baral J. **J Dermatol Surg Oncol** 1990 Jan;16(1):70

Local tissue reaction to the subureteral injection of glutaraldehyde cross-linked bovine collagen in humans. Leonard MP, et al. **J Urol** 1990 Jun;143(6):1209-12

[Peculiar computed tomographic images after intracranial use of microfibrillar collagen hemostat: report of three cases] Gondo G, et al. **No Shinkei Geka** 1989 Nov;17(11):1067-71 (Eng. Abstr.) (Jpn)

ANALOGS & DERIVATIVES

The attachment and growth of an established cell line on collagen, chemically modified collagen, and collagen composite surfaces. Srivastava S, et al. **Biomaterials** 1990 Apr;11(3):162-8

The effect of non-enzymatically glycosylated collagen on normal human platelets [letter] Yarat A, et al. **Clin Chim Acta** 1989 Nov;185(2):203-5

Increased non-enzymatic glycosylation and reduced solubility of skin collagen in insulin-dependent diabetic patients. Salmela PI, et al. **Diabetes Res** 1989 Jul; 11(3):115-20

ANALYSIS

Monoclonal antibodies to collagens for immunofluorescent examination of human skin. Werkmeister JA, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):399-402

Immunohistochemical localization of collagen types I, II, III, and IV in pterygium tissues. Dake Y, et al. **Acta Histochem (Jena)** 1989;87(1):71-4

Immunoelectron microscopic localization of human type III collagen in human gastrointestinal carcinomas. Ohtani H, et al. **Acta Pathol Jpn** 1990 May;40(5):327-34

Diameter increase of collagen fibrils of the mouse endometrium during decidualization. Alberto-Rincon MC, et al. **Am J Anat** 1989 Dec;186(4):417-29

Expression of novel basement membrane components in the developing human kidney and eye. Kleppel MM, et al. **Am J Anat** 1990 Feb;187(2):165-74

A new lethal brittle bone syndrome with increased amount of type V collagen in a patient. Bonaventure J, et al. **Am J Med Genet** 1989 Jul;33(3):299-310

Analysis of cultured chorionic villi in a case of osteogenesis imperfecta type II: implications for prenatal diagnosis. Grange DK, et al. **Am J Med Genet** 1990 Jun;36(2):256-64

Type II collagen screening in the human chondrodysplasias. Horton WA, et al. **Am J Med Genet** 1989 Dec;34(4):579-83

Type II collagen distribution in the monkey ear. Ishibe T, et al. **Am J Otol** 1990 Jan;11(1):33-8

Lung surfactant-associated proteins and type IV collagen share common epitopes. An immunocytochemical demonstration. Coulombe PA, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1040-4

Collagen cross-linking in adult patients with acute and chronic fibrotic lung disease. Molecular markers for fibrotic collagen. Last JA, et al. **Am Rev Respir Dis** 1990 Feb; 141(2):307-13

Types of collagen in breast capsules. Marshall WR, et al. **Ann Plast Surg** 1989 Nov;23(5):401-5

Microfibrillar meshwork of the synovial lining and associated broad banded collagen: a clue to identity. Levick JR, et al. **Ann Rheum Dis** 1990 Jan;49(1):31-6

Collagen crosslinks and their relationship to the thermal properties of calf tendons. Horgan DJ, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):21-6

Presence of type III collagen in disc attachments of human temporomandibular joints. Gage JP, et al. **Arch Oral Biol** 1990;35(4):283-8

Site-specific variations in the biochemical composition of healthy sheep periodontium. Kirkham J, et al. **Arch Oral Biol** 1989;34(6):405-11

Bovine dental pulp collagens: characterization of types III and V collagen. Tsuzaki M, et al. **Arch Oral Biol** 1990; 35(3):195-200

Collagen species in various sized human arteries and their changes with intimal proliferation. Murata K, et al. **Artery** 1990;17(2):96-106

Immunohistologic demonstration of type II collagen in synovial fluid phagocytes of osteoarthritis and rheumatoid arthritis patients. Moreland LW, et al. **Arthritis Rheum** 1989 Nov;32(11):1458-64

The comparative chemical morphology of the mammalian cornea. Scott JE, et al. **Basic Appl Histochem** 1990; 34(1):35-42

The collagenous protein with elastin crosslinks from Descemet's membrane is not related to type VIII collagen. Davis PF, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):260-5

Glomerular basement membrane: evidence for collagenous domain of the alpha 3 and alpha 4 chains of collagen IV. Fagg WR, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):322-7

Bovine cartilage types VI and IX collagens. Characterization of their forms in vivo. Ayad S, et al. **Biochem J** 1989 Sep 15;262(3):753-61

A comparative biochemical and ultrastructural study of proteoglycan-collagen interactions in corneal stroma. Functional and metabolic implications. Scott JE, et al. **Biochem J** 1990 Sep 1;270(2):491-7

Simultaneous determination of the reducible and nonreducible cross-links of connective tissue. Analysis of mineralized and nonmineralized bone collagen. Graham L, et al. **Biochemistry** 1989 Sep 19;28(19):7889-95

Solution conformation of the type I collagen alpha-1 chain N-telopeptide studied by 1H NMR spectroscopy. Otter A, et al. **Biochemistry** 1989 Oct 3;28(20):8003-10

Identification of furoyl-containing advanced glycation products in collagen samples from diabetic and healthy rats. Lapolla A, et al. **Biochim Biophys Acta** 1990 Jan 29; 1033(1):13-8

Biochemical and immunological characterization of collagen molecules from echinothurioid sea urchin Asthenosoma ijimai. Shimizu K, et al. **Biochim Biophys Acta** 1990 Mar 29;1038(1):39-46

Fibril-associated collagens. van der Rest M, et al. **Biomaterials** 1990 Jul;11:28-31 (28 ref.)

Changes in the connective tissue of corpus and cervix uteri during ripening and labour in term pregnancy. Granström L, et al. **Br J Obstet Gynaecol** 1989 Oct;96(10):1198–202

The effect of anorexia nervosa on skin thickness, skin collagen and bone density. Savvas M, et al. **Br J Obstet Gynaecol** 1989 Dec;96(12):1392–4

Quantitative analysis of collagen content and amino acids in trabecular meshwork. Finkelstein I, et al. **Br J Ophthalmol** 1990 May;74(5):280–2

Ultrastructural distribution of collagen types I–VI in aging human retinal vessels. Marshall GE, et al. **Br J Ophthalmol** 1990 Apr;74(4):228–32

Immunohistochemical localization of type II collagen in cartilage-forming tumors [published erratum appears in Bull Hosp Jt Dis Orthop Inst 1990 Spring;50(1):69] Huang GQ, et al. **Bull Hosp Jt Dis Orthop Inst** 1989 Spring; 49(1):94–102

Myocardial stiffness and reparative fibrosis following coronary embolisation in the rat Carroll EP, et al. **Cardiovasc Res** 1989 Aug;23(8):655–61

Immunohistochemical localization of type IV collagen fibronectin and laminin in the juxtaglomerular apparatus of the rat kidney. Blanc-Brunat N, et al. **Cell Mol Biol** 1989;35(4):469–84

Immunohistochemical study of types I, III and IV collagen in diseased human gingiva of patients with rapidly progressive periodontitis: a light and electron microscopic study. Chavrier C, et al. **Cell Mol Biol** 1989;35(4):457–67

Dermal elastin and collagen in systemic sclerosis. Effect of D-penicillamine treatment. Pasquali Ronchetti I, et al. **Clin Exp Rheumatol** 1989 Jul–Aug;7(4):373–83

Abnormally thin glomerular basement membrane and the Goodpasture epitope. Pettersaon E, et al. **Clin Nephrol** 1990 Mar;33(3):105–9

The three-dimensional 'knit' of collagen fibrils in articular cartilage. Broom ND, et al. **Connect Tissue Res** 1989; 23(4):261–77

Localization of gamma-glutamyl-phosphate residues to the alpha 2CB3-5 peptide of type I chicken bone collagen. Landais JC, et al. **Connect Tissue Res** 1989;19(1):1–9

Studies of compact hard tissues and collagen by means of Brillouin light scattering. Lees S, et al. **Connect Tissue Res** 1990;24(3–4):187–205

Bone type V collagen: chain composition and location of a trypsin cleavage site. Niyibizi C, et al. **Connect Tissue Res** 1989;20(1–4):247–50

Chains of matrix-derived type X collagen: size and aggregation properties. Schmid TM, et al. **Connect Tissue Res** 1989;20(1–4):215–22

Isolation, purification and partial characterization of novel fluorophores from aging human insoluble collagen-rich tissue. Sell DR, et al. **Connect Tissue Res** 1989;19(1):77–92

Alterations in biochemistry of laser-fused vascular tissue. Guthrie CR, et al. **Curr Surg** 1990 Jul–Aug;47(4):258–62

Increased collagen-linked fluorescence in skin of young patients with type I diabetes mellitus. Dominiczak MH, et al. **Diabetes Care** 1990 May;13(5):468–72

Quantitative estimation of the collagen content in normal and pathologic pancreas tissue. Bedossa P, et al. **Digestion** 1989;44(1):7–13

Short-chain basement membrane collagen. Further characterization and its biosynthesis by F-9 embryonal carcinoma cells. Dixit SN. **Eur J Biochem** 1989 Dec 8; 186(1–2):411–4

Electrophoretic analysis of type I collagen from bovine Achilles tendon: comparison between the extracted raw material and the freeze-dried product. Menicagli C, et al. **Farmaco** 1990 Jan;45(1):93–9

Collagenous gastritis. Colletti RB, et al. **Gastroenterology** 1989 Dec;97(6):1552–5

Immunocytochemical localisation of collagens (I–V) in the human iris. Konstas AG, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(2):180–6

Are the polarization colors of picrosirius red-stained collagen determined only by the diameter of the fibers? Dayan D, et al. **Histochemistry** 1989;93(1):27–9

Immunolocalization of type IV collagen and laminin during rat gonadal morphogenesis and postnatal development of the testis and epididymis. Gelly JL, et al. **Histochemistry** 1989;93(1):31–7

An immunohistochemical study of localization of type I and type II collagens in mandibular condylar cartilage compared with tibial growth plate. Mizoguchi I, et al. **Histochemistry** 1990;93(6):593–9

Collagen profile in the transplanted heart. Tazelaar HD, et al. **Hum Pathol** 1990 Apr;21(4):424–8

Collagen types I and III and fibronectin in healing anterior cruciate ligament after reconstruction with carbon fibre. Mäkisalo SE, et al. **Injury** 1989 Mar;20(2):72–6

Early modifications of outgrowth and metallo-endopeptidase activity in fibroblasts from rat cutaneous explants after local gamma-irradiation: dermis cellularity and collagen fibre alterations. Lombard-Vignon N, et al. **Int J Radiat Biol** 1990 Aug;58(2):325–40

Immunolocalization of type VI collagen in developing and healing rabbit cornea. Cho HI, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1096–102

Tissue determinants of nuclear magnetic resonance relaxation times. Effect of water and collagen content in muscle and tendon. Scholz TD, et al. **Invest Radiol** 1989 Nov; 24(11):893–8

Marfan syndrome: a collagen disorder? Zanaboni G, et al. **Ital J Biochem** 1989 Jul–Aug;38(4):288A–289A

Intramuscular collagen and serum hydroxyproline as related to implanted testosterone, dihydrotestosterone and estradiol-17 beta in growing wethers. Miller LF, et al. **J Anim Sci** 1990 Apr;68(4):1044–8

Incomplete normalization of dog gracilis muscle grafts with neurovascular repair despite long-term recovery. Martin TP, et al. **J Appl Physiol** 1990 Feb;68(2):687–92

Distribution of elastin and collagen in canine lung alveolar parenchyma. Oldmixon EH, et al. **J Appl Physiol** 1989 Nov; 67(5):1941–9

Colorimetric determination of hydroxyproline as measure of collagen content in meat and meat products: NMKL collaborative study. Kolar K. **J Assoc Off Anal Chem** 1990 Jan–Feb;73(1):54–7

Partial characterization of an unusual 185 kDa protein synthesized by dermal fibroblasts from patients with Marfan syndrome: identification of the protein as type IV collagen. Murakami A, et al. **J Biochem (Tokyo)** 1989 Sep; 106(3):490–4

Glomerular basement membrane. Identification of a fourth chain, alpha 4, of type IV collagen. Gunwar S, et al. **J Biol Chem** 1990 Apr 5;265(10):5466–9

The spatial organization of Descemet's membrane-associated type IV collagen in the avian cornea. Fitch JM, et al. **J Cell Biol** 1990 Apr;110(4):1457–68

Origin of type I collagen localized within oviduct epithelium of quail hyperstimulated by progesterone. Perche O, et al. **J Cell Sci** 1990 Jan;95 (Pt 1):85–95

Type IV collagen and laminin staining patterns in benign and malignant cutaneous lesions. Mackie RM, et al. **J Clin Pathol** 1989 Nov;42(11):1173–7

Evidence for uptake of basement membrane by differentiating ameloblasts in the rat incisor enamel organ. Sawada T, et al. **J Dent Res** 1990 Aug;69(8):1508–11

The subbasement membrane distribution of type IV collagen in normal human skin. Kobayashi H, et al. **J Dermatol** 1989 Dec;16(6):458–63

Avian vasculogenesis and the distribution of collagens I, IV, laminin, and fibronectin in the heart primordia. Drake CJ, et al. **J Exp Zool** 1990 Sep;255(3):309–22

The presence of a type IV collagen skeleton associated with periductal elastosis in breast cancer. Verhoeven D, et al. **J Histochem Cytochem** 1990 Feb;38(2):245–55

Dentin dysplasia type II: absence of type III collagen in dentin. Ranta H, et al. **J Oral Pathol Med** 1990 Apr; 19(4):160–5

Distribution of factor XIIIa-containing cells and collagenous components in radicular cysts: histochemic and immunohistochemic studies. Toida M, et al. **J Oral Pathol Med** 1990 Apr;19(4):155–9

Differential immunohistochemical localization of cytokeratins and collagen types I and III in experimentally-induced cirrhosis. Al Adnani MS. **J Pathol** 1989 Oct;159(2):151–8

Studies of type I collagen in osteogenesis imperfecta. Edwards MJ, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):67–72

Connective tissue-associated proteins in crevicular fluid: potential markers for periodontal diseases. Bowers MR, et al. **J Periodontol** 1989 Aug;60(8):448–51

Organization of intermediate filaments and their association with collagen-containing phagosomes in mouse decidual cells. Zorn TM, et al. **J Struct Biol** 1990 Mar;103(1):23–33

Localization of collagen types in regional segments of the fetal bovine aorta. Howard PS, et al. **Lab Invest** 1989 Nov; 61(5):548–55

Aldehyde dehydrogenase-2 deficiency and articular collagen [letter] Lewis WH, et al. **Lancet** 1989 Oct 21;2(8669):984

Characterization of the site dependency of normal canine arterial fluorescence. Garrand TJ, et al. **Lasers Surg Med** 1990;10(4):375–83

Sirius red histophotometry and spectrophotometry of sections in the assessment of the collagen content of liver tissue and its application in growing rat liver. James J, et al. **Liver** 1990 Feb;10(1):1–5

Human skin and post-burn scar hyaluronan: demonstration of the association with collagen and other proteins. Burd DA, et al. **Matrix** 1989 Aug;9(4):322–7

Characterization of mammalian type IX collagen fragments from limited pepsin digests of a transplantable swarm rat chondrosarcoma. Furuto DK, et al. **Matrix** 1989 Nov; 9(5):353–65

Effect of collagen crosslinking on collagen-water interactions (a DSC investigation). Kopp J, et al. **Matrix** 1990 Jan;9(6):443–50

Anomalous cysteine in type I collagen. Localisation by chemical cleavage of the protein using 2-nitro-5-thiocyanobenzoic acid and by mismatch analysis of cDNA heteroduplexes. Tenni R, et al. **Matrix** 1990 Mar; 10(1):20–6

Phosphorus, calcium and lead distribution in collagen in lead induced soft tissue calcification. An ultrastructural and X-ray microanalytical study. Vandeputte DF, et al. **Matrix** 1990 Mar;10(1):33–7

Distribution of Goodpasture antigens within various human basement membranes. Weber M, et al. **Nephrol Dial Transplant** 1990;5(2):87–93

Collagenous colitis with protracted course and fatal evolution. Report of a case. Widgren S, et al. **Pathol Res Pract** 1990 Apr;186(2):303–6; discussion 306–8

A new enzyme-linked immunosorbent assay for urine and serum concentrations of the carboxyterminal domain (NCI) of collagen. IV. Application in type I (insulin-dependent) diabetes. Torffvit O, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):431–9

Use of histochemical techniques in the characterisation of osteochondroses affecting pigs. Hill MA, et al. **Vet Rec** 1990 Jul 14;127(2):29–37

[Relationship between collagen type IV fraction in the capillary wall and its diameter observed in normal skin and in chronic venous insufficiency] van den Broek MJ et al. **Phlebologie** 1990 Jan–Mar;43(1):31–3 **(Fre)**

[Connective tissue of the human fallopian tube mucosa—polarization microscopic detection of collagen using Solamin-sol 40] Schultka R, et al. **Acta Histochem (Jena)** 1989;86(2):159–66 (Eng. Abstr.) **(Ger)**

[Immunohistochemical studies of the human lens capsule] Hettlich HJ, et al. **Fortschr Ophthalmol** 1990;87(2):147–9 (Eng. Abstr.) **(Ger)**

[Existence of a superposition for negative and positive staining of collagen fibrils] Ortolani F, et al. **Boll Soc Ital Biol Sper** 1988 Oct;64(10):915–22 (Eng. Abstr.) **(Ita)**

[Electron microscopic and immunohistological studies of a case of Ehlers-Danlos syndrome type IV] Matsuta M, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Apr;99(5):601–7 (Eng. Abstr.) **(Jpn)**

[Molecular polymorphism of collagen: collagen types VI–XII] Bańkowski E, et al. **Postepy Biochem** 1989; 35(3):397–413 (102 ref.) **(Pol)**

[Orientational analysis of the ultrastructural architecture of the fibrous base of human articular cartilage] Ome lianenko NP. **Arkh Anat Gistol Embriol** 1989 Jul;97(7):39–47 (Eng. Abstr.) **(Rus)**

[Calorimetric study of the glass transition of denatured collagen] Tsereteli GI, et al. **Biofizika** 1990 Mar–Apr; 35(2):217–21 (Eng. Abstr.) **(Rus)**

[Structural characteristics of collagens from the skin and rib cartilage of patients with Ehlers-Danlos syndrome type II] Sokolov BP, et al. **Vopr Med Khim** 1990 Jan–Feb; 36(1):90–3 (Eng. Abstr.) **(Rus)**

[Changes in the structure of type I collagen and cross-links between type I and type III collagen chains in a patient with funnel chest] Sokolov BP, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):91–102 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Inhibition of collagen- and ADP-induced platelet aggregation by substance P in vivo: involvement of endothelium-derived relaxing factor. Humphries RG, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):292–7

Modulation of endothelial cell phenotype by cyclic stretch: inhibition of collagen production. Sumpio BE, et al. **J Surg Res** 1990 May;48(5):415–20

Inhibition of thrombin- and collagen-induced phosphoinositides breakdown in rabbit platelets by a PAF antagonist—denudatin B, an isomer of kadsurenone. Teng CM, et al. **Thromb Res** 1990 Jul 1;59(1):121–30

BIOSYNTHESIS

Collagen synthesis by cultured arterial smooth muscle cells during spontaneous phenotypic modulation. Okada Y, et al. **Acta Pathol Jpn** 1990 Mar;40(3):157–64

The effects of remobilization and exercise on collagen biosynthesis in rat tendon. Karpakka J, et al. **Acta Physiol Scand** 1990 May;139(1):139–45

Effects of epidermal growth factor on collagen synthesis by an epithelioid cell line derived from normal rat kidney. Creely JJ, et al. **Am J Pathol** 1990 Jun;136(6):1247–57

Collagen biosynthesis in rabbit intraarticular patellar tendon transplants. Fulkerson JP, et al. **Am J Sports Med** 1990 May–Jun;18(3):249–53

Polysulfated glycosaminoglycan accelerates net synthesis of collagen and glycosaminoglycans by arthritic equine cartilage tissues and chondrocytes. Glade MJ. **Am J Vet Res** 1990 May;51(5):779–85

Regulation of collagen production by medial smooth muscle cells in hypoxic pulmonary hypertension. Crouch EC, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1045–51

Collagen synthesis during lung development and during hyaline membrane disease in the nonhuman primate. Jackson JC, et al. **Am Rev Respir Dis** 1990 Apr;141(4 Pt 1):846–53

Application of high-pressure liquid chromatography to studies of collagen production by isolated cells in culture. Campa JS, et al. **Anal Biochem** 1990 May 1;186(2):257–63

A microassay to quantitate collagen synthesis by cells in culture. Diegelmann RF, et al. **Anal Biochem** 1990 May 1;186(2):296–300

Development of diffuse fasciitis with eosinophilia during L-tryptophan treatment: demonstration of elevated type I collagen gene expression in affected tissues. A clinicopathologic study of four patients. Varga J, et al. **Ann Intern Med** 1990 Mar 1;112(5):344–51

Regulation of human lung fibroblast collagen production by recombinant interleukin-1, tumor necrosis factor, and interferon-gamma. Elias JA, et al. **Ann N Y Acad Sci** 1990; 580:233–44

Type VIII collagen in murine development. Association with capillary formation in vitro. Sage H, et al. **Ann N Y Acad Sci** 1990;580:17–31

Retinoids affect collagen synthesis through inhibition of

ascorbate-induced lipid peroxidation in cultured human dermal fibroblasts. Geesin JC, et al. **Arch Biochem Biophys** 1990 May 1;278(2):358-3

Scorbutic and fasted guinea pig sera contain an insulin-like growth factor I-reversible inhibitor of proteoglycan and collagen synthesis in chick embryo chondrocytes and adult human skin fibroblasts. Oyamada I, et al. **Arch Biochem Biophys** 1990 Jan;276(1):85-93

Eosinophilic fasciitis. Increased collagen production and type I procollagen messenger RNA levels in fibroblasts cultured from involved skin. Kähäri VM, et al. **Arch Dermatol** 1990 May;126(5):613-7

Epidermal growth factor and insulin act synergistically during diabetic healing. Hennessey PJ, et al. **Arch Surg** 1990 Jul;125(7):926-9

In vitro identification of a subpopulation of fibroblasts that produces high levels of collagen in scleroderma patients. Needleman BW, et al. **Arthritis Rheum** 1990 Jun; 33(6):842-52

Collagen synthesis by cultured rabbit aortic smooth-muscle cells. Alteration with phenotype. Ang AH, et al. **Biochem J** 1990 Jan 15;265(2):461-9

Biosyntheses of interstitial collagens and fibronectin by porcine aorta smooth muscle cells. Modulation by low-molecular-weight heparin fragments. Asselot-Chapel C, et al. **Biochim Biophys Acta** 1989 Dec 8;993(2-3):240-4

Modulation by interleukin 1 and tumor necrosis factor alpha of production of collagenase, tissue inhibitor of metalloproteinases and collagen types in differentiated and dedifferentiated articular chondrocytes. Lefebvre V, et al. **Biochim Biophys Acta** 1990 May 22;1052(3):366-78

Production of collagens, collagenase and collagenase inhibitor during the dedifferentiation of articular chondrocytes by serial subcultures. Lefebvre V, et al. **Biochim Biophys Acta** 1990 Mar 9;1051(3):266-75

Growth-dependent modulation of type I collagen production and mRNA levels in cultured human skin fibroblasts. Mäkelä JK, et al. **Biochim Biophys Acta** 1990 Jun 21; 1049(2):171-6

Collagen synthesis in explants from rat intestine. Martens MF, et al. **Biochim Biophys Acta** 1989 Dec 8;993(2-3):252-8

Effect of proteoglycans on type I collagen fibre formation. Garg AK, et al. **Biomaterials** 1989 Aug;10(6):413-9

Effects of ethanol and acetaldehyde on collagen synthesis, prostaglandin release and resorption of fetal rat bone in organ culture. Hurley MM, et al. **Bone** 1990;11(1):47-51

Cyclic AMP-dependent inhibition of collagen synthesis in avian epiphyseal cartilage cells: effect of chicken and human parathyroid hormone and parathyroid hormone-related peptide. Pines M, et al. **Bone Miner** 1990 Apr;9(1):23-33

An acidic fibroblast growth factor stimulates DNA synthesis, inhibits collagen and alkaline phosphatase synthesis and induces resorption in bone. Shen V, et al. **Bone Miner** 1989 Nov;7(3):205-19

Collagens synthesized by healing fractures. Ashhurst DE. **Clin Orthop** 1990 Jun;(255):273-83 (37 ref.)

Collagen biosynthesis anomalies in prolidase deficiency: effect of glycyl-L-proline on the degradation of newly synthesized collagen. Chamson A, et al. **Clin Physiol Biochem** 1989;7(3-4):128-36

Stimulation of collagen synthesis in fibroblast cultures by a triterpene extracted from Centella asiatica. Maquart FX, et al. **Connect Tissue Res** 1990;24(2):107-20

The effects of argon laser on bovine aortic endothelial and smooth muscle cell proliferation and collagen production. Graham DJ, et al. **Curr Surg** 1990 Jan-Feb;47(1):27-30

Effects of various cytokines on collagen synthesis by normal rat hepatocytes in primary cultures and fibroblasts. Tsutsumi Y, et al. **Digestion** 1989;44(4):191-9

Anastomotic healing after resection of left-colon stenosis: effect on collagen metabolism and anastomotic strength. An experimental study in the rat. Törnqvist A, et al. **Dis Colon Rectum** 1990 Mar;33(3):217-21

Differential effects of continuous and transient treatment with parathyroid hormone related peptide (PTHrp) on bone collagen synthesis. Canalis E, et al. **Endocrinology** 1990 Apr;126(4):1806-12

Hormonal control of bone collagen synthesis in vitro. Effects of insulin and glucagon. Canalis EM, et al. **Endocrinology** 1977 Mar;100(3):668-74

Cortisol enhances the anabolic effects of insulin-like growth factor I on collagen synthesis and procollagen messenger ribonucleic acid levels in cultured 21-day fetal rat calvariae. Kream BE, et al. **Endocrinology** 1990 Mar; 126(3):1576-83

Effects of fibroblast growth factors on deoxyribonucleic acid and collagen synthesis in rat parietal bone cells. McCarthy TL, et al. **Endocrinology** 1989 Oct;125(4):2118-26

Effects of atrial natriuretic factor on cyclic nucleotides, bone resorption, collagen and deoxyribonucleic acid synthesis, and prostaglandin E2 production in fetal rat bone cultures. Vargas SJ, et al. **Endocrinology** 1989 Nov;125(5):2527-31

Radiological "metamorphosis" in a patient with severe congenital osteogenesis imperfecta. Pendola F, et al. **Eur J Pediatr** 1990 Mar;149(6):403-5

The synthesis and secretion of collagen by cultured sea urchin micromeres. Benson S, et al. **Exp Cell Res** 1990 May; 188(1):141-6

Ascorbic acid phosphate stimulates type IV collagen synthesis and accelerates adipose conversion of 3T3-L1 cells. Ono M, et al. **Exp Cell Res** 1990 Apr;187(2):309-14

Aortic media explants. Cell proliferation and production of mucopolysaccharides, collagen, and elastic tissue. Jarmolych J, et al. **Exp Mol Pathol** 1968 Oct;9(2):171-88

Effect of transforming growth factor beta on fibroblasts in three-dimensional lattice cultures. Coustry F, et al. **FEBS Lett** 1990 Mar 26;262(2):339-41

Transforming growth factor beta 1 selectively augments collagen synthesis by human intestinal smooth muscle cells. Graham MF, et al. **Gastroenterology** 1990 Aug;99(2):447-53

Gamma-interferon treatment inhibits collagen deposition in murine schistosomiasis. Czaja MJ, et al. **Hepatology** 1989 Nov;10(5):795-800

Stimulation of hepatic lipocyte collagen production by Kupffer cell-derived transforming growth factor beta: implication for a pathogenetic role in alcoholic liver fibrogenesis. Matsuoka M, et al. **Hepatology** 1990 Apr; 11(4):599-605

Biosynthesis of collagen crosslinks. Last JA, et al. **Int J Biochem** 1990;22(6):559-64 (42 ref.)

Expression of genes encoding two chains of the collagen type VI molecule during human fetal heart development. Duff K, et al. **Int J Cardiol** 1990 Apr;27(1):128-9

Production of fibronectin and collagen types I and III by chick embryo dermal cells cultured on extracellular matrix substrates. Robert J, et al. **Int J Dev Biol** 1989 Jun; 33(2):267-75

Effects of associated cytokines (IL-1, TNF-alpha, IFN-gamma and TGF-beta) on collagen and glycosaminoglycan production by cultured human synovial cells. Daireaux M, et al. **Int J Tissue React** 1990;12(1):21-31

Extracellular matrices of the developing chick retina and cornea. Localization of mRNAs for collagen types II and IX by in situ hybridization. Linsenmayer TF, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1271-6

Collagen expression in quail embryo chondrocytes treated with retinoic acid. Sanchez M, et al. **Ital J Biochem** 1990 May-Jun;39(3):153A-156A

Short-term keloid treatment in vivo with human interferon alfa-2b results in a selective and persistent normalization of keloidal fibroblast collagen, glycosaminoglycan, and collagenase production in vitro. Berman B, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):694-702

Variation of corticosteroid-induced inhibition of collagen synthesis at equivalent anti-inflammatory doses. Cutroneo KR, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1007-10

The importance of parathyroid hormone in inhibition of collagen synthesis and mitogenesis of osteoblastic cell. Pun KK. **J Biochem (Tokyo)** 1989 Dec;106(6):1090-3

The differential effect of prostaglandin E2 on transforming growth factor-beta and insulin-induced collagen formation in lung fibroblasts. Fine A, et al. **J Biol Chem** 1989 Oct 15;264(29):16988-91

Specific inactivation of prolyl 4-hydroxylase and inhibition of collagen synthesis by oxaproline-containing peptides in cultured human skin fibroblasts. Karvonen K, et al. **J Biol Chem** 1990 May 25;265(15):8415-9

Ascorbic acid induces alkaline phosphatase, type X collagen, and calcium deposition in cultured chick chondrocytes. Leboy PS, et al. **J Biol Chem** 1989 Oct 15;264(29):17281-6

Relaxin modulates synthesis and secretion of procollagenase and collagen by human dermal fibroblasts. Unemori EN, et al. **J Biol Chem** 1990 Jun 25;265(18):10681-5

Comparative studies of type X collagen expression in normal and rachitic chicken epiphyseal cartilage. Kwan AP, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1849-56

Type V collagen synthesis and deposition by chicken embryo corneal fibroblasts in vitro. McLaughlin JS, et al. **J Cell Sci** 1989 Oct;94 (Pt 2):371-9

Determination of collagen and protein turnover by high-performance liquid chromatography. Stratford MR, et al. **J Chromatogr** 1990 Apr 6;526(2):383-95

Activation of cultured rat hepatic lipocytes by Kupffer cell conditioned medium. Direct enhancement of matrix synthesis and stimulation of cell proliferation via induction of platelet-derived growth factor receptors. Friedman SL, et al. **J Clin Invest** 1989 Dec;84(6):1780-5

Heterogeneity in hormone responses and patterns of collagen synthesis in cloned dermal fibroblasts. Goldring SR, et al. **J Clin Invest** 1990 Mar;85(3):798-803

Effect of force level on synthesis of type III and type I collagen in mouse interparietal suture. Yen EH, et al. **J Dent Res** 1989 Dec;68(12):1746-51

The effect of sutural growth rate on collagen phenotype synthesis. Yen EH, et al. **J Dent Res** 1989 Jun;68(6):1058-63

Effects of magnetic resonance imaging (MRI) on the formation of mouse dentin and bone. Kwong-Hing A, et al. **J Exp Zool** 1989 Oct;252(1):53-9

Increased collagen synthesis accompanying elevated m-RNA levels in cultured Werner's syndrome fibroblasts. Arakawa M, et al. **J Invest Dermatol** 1990 Feb;94(2):187-90

Effectiveness of isoascorbate versus ascorbate as an inducer of collagen synthesis in primary avian tendon cells. Kipp DE, et al. **J Nutr** 1990 Feb;120(2):185-9

The effects of mechanical strain on osteoblasts in vitro. Buckley MJ, et al. **J Oral Maxillofac Surg** 1990 Mar; 48(3):276-82; discussion 282-3

Collagen synthesis during primate flexor tendon repair in vitro. Russell JE, et al. **J Orthop Res** 1990 Jan;8(1):13-20

Effect of cell donor age on the synthetic properties of fibroblasts obtained from phenytoin-induced gingival hyperplasia. Johnson BD, et al. **J Periodont Res** 1990 Mar; 25(2):74-80

Antiangiogenic action of heparin plus cortisone is associated with decreased collagenous protein synthesis in the chick chorioallantoic membrane system. Maragoudakis ME, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):679-82

Effects of NSAID on collagen and proteoglycan synthesis of cultured chondrocytes. Fujii K, et al. **J Rheumatol Suppl** 1989 Aug;18:28-31

Modulatory activities of wound fluid on fibroblast proliferation and collagen synthesis. Pricolo VE, et al. **J Surg Res** 1990 Jun;48(6):534-8

Expression of type II and type XI collagens in canine mammary mixed tumors and demonstration of collagen production by tumor cells in collagen gel culture. Arai K, et al. **Jpn J Cancer Res** 1989 Sep;80(9):840-7

Collagen synthesis and deposition in cultured fibroblasts from subcutaneous radiation-induced fibrosis. Modification as a function of cell aging. el Nabout R, et al. **Matrix** 1989 Nov;9(5):411-20

Minocycline-treatment of diabetic rats normalizes skin collagen production and mass: possible causative mechanisms. Schneir M, et al. **Matrix** 1990 May; 10(2):112-23

Correction of altered collagen metabolism in diabetic animals with insulin therapy. Umpierrez GE, et al. **Matrix** 1989 Aug;9(4):336-42

Interleukin-1 alpha and phorbol ester inhibit collagen synthesis in osteoblastic MC3T3-E1 cells by a transcriptional mechanism. Harrison JR, et al. **Mol Endocrinol** 1990 Feb;4(2):184-90

Metabolism of articular cartilage chondrocytes. Kuettner KE, et al. **Nippon Seikeigeka Gakkai Zasshi** 1989 May; 63(5):621-9

The effect of oxygen tension on collagen synthesis and calcium uptake in newborn rats' calvaria in vitro. Miwa T, et al. **Nippon Seikeigeka Gakkai Zasshi** 1990 Jan; 64(1):76-81

In vivo stimulation of lung collagen synthesis by collagen derived peptides. Pacini A, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr; 68(1):89-101

Preliminary characterization of platelet factor (s) which exert stimulatory effect on collagen biosynthesis in Balb c/3T3 cells. Galewska Z, et al. **Rocz Akad Med Bialymstoku** 1986-87;31-32:153-61

Elevated collagen synthesis in dimethylbenz(a)-anthracene rat breast tumors and the effect of beta-amino propionitrile on tumor growth. Diegelmann RF, et al. **Surg Forum** 1978; 29:176-8

Collagen synthesis and prostaglandin inhibition in burns. Salomon JC, et al. **Surg Forum** 1978;29:601-3

Impact of bacteria on metabolism of collagen in colonic obstruction in rats. Törnqvist A, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):5-8

Collagen secretion granules in reactive stromal myofibroblasts, with preliminary observations on their occurrence in spindle cell tumours [published erratum appears in Virchows Arch [A] 1990;416(3):280] Eyden BP. **Virchows Arch** [A] 1989;415(5):437-45

[The effect of hydrocortisone aceponate on proliferation, total protein synthesis and collagen synthesis in human skin fibroblasts in vitro] Görmar FE, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):192-6 (Eng. Abstr.) **(Ger)**

[Collagenous colitis. Studies on the differentiation and incidence of the syndrome] Möhrmann C, et al. **Med Klin** 1989 Sep 15;84(9):434-8 (Eng. Abstr.) **(Ger)**

[Metabolism of ornithine in human gingival tissue] Pinna GG, et al. **Boll Soc Ital Biol Sper** 1989 Nov;65(11):1025-9 (Eng. Abstr.) **(Ita)**

[The Ehlers-Danlos syndrome and its surgical implications] Naclerio S, et al. **Clin Ter** 1990 Feb 28;132(4):235-48 (19 ref.) (Eng. Abstr.) **(Ita)**

[Alterations in collagen synthesis after transection of peripheral nerves] Tsuji M. **Nippon Seikeigeka Gakkai Zasshi** 1989 Aug;63(8):860-70 (Eng. Abstr.) **(Jpn)**

BLOOD

Procollagen type III aminoterminal peptide in serum in idiopathic myelofibrosis and allied conditions: relation to disease activity and effect of chemotherapy. Hasselbalch H, et al. **Am J Hematol** 1990 Jan;33(1):18-26

Blood-borne collagenous debris complexes with plasma fibronectin after thermal injury. La Celle P, et al. **Blood** 1990 Jan 15;75(2):470-8

Radioimmunoassay of type I collagen that mainly detects degradation products in serum: application to patients with liver diseases. Hartmann DJ, et al. **Clin Chem** 1990 Mar; 36(3):421-6

Serum type IV collagen concentrations in diabetic patients with microangiopathy as determined by enzyme immunoassay with monoclonal antibodies. Matsumoto E, et al. **Diabetes** 1990 Aug;39(8):885-90

Markers of fibrogenesis and basement membrane formation in alcoholic liver disease. Relation to severity, presence of hepatitis, and alcohol intake. Niemelä O, et al. **Gastroenterology** 1990 Jun;98(6):1612-9

Carbonic anhydrase III and collagen markers in serum following cross-country skiing. Takala TE, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):593-7

DEFICIENCY

Familial cerebral aneurysms and type III collagen deficiency [letter; comment] Pope FM, et al. **J Neurosurg** 1990 Jan; 72(1):156–8 Comment on: J Neurosurg 1989 Jun;70(6):837–40.

DIAGNOSTIC USE

Co-immobilization and interaction of heparin and plasmin on collageno-elastic tubes. Shankar H, et al. **Biomater Artif Cells Artif Organs** 1990;18(1):59–73

[Use of reconstituted basal membranes for the study of invasion of human tumor cells: current status and future prospects] Visconti P, et al. **Boll Soc Ital Biol Sper** 1990 Apr;66(4):365–72 (12 ref.) (Eng. Abstr.) **(Ita)**

DRUG EFFECTS

Influence of glycosaminoglycans on the collagen sponge component of a bilayer artificial skin. Matsuda K, et al. **Biomaterials** 1990 Jul;11(5):351–5

Studies on the inhibitory effect of tetrandrine on silica-induced fibrogenesis in vitro. Li YR, et al. **Biomed Environ Sci** 1988 Aug;1(2):125–9

Acetaldehyde selectively stimulates collagen production in cultured rat liver fat-storing cells but not in hepatocytes. Moshage H, et al. **Hepatology** 1990 Sep;12(3 Pt 1):511–8

EGF increases short-term type I collagen accumulation during wound healing in diabetic rats. Hennessey PJ, et al. **J Pediatr Surg** 1990 Aug;25(8):893–7

Effect of lathyrogen on collagen of methylcholanthrene-induced sarcoma of rat. Bańkowski E, et al. **Zentralbl Allg Pathol** 1990;136(3):247–53

GENETICS

Spondyloepiphyseal dysplasia congenita: genetic linkage to type II collagen (COL2A1). Anderson IJ, et al. **Am J Hum Genet** 1990 May;46(5):896–901

Recurrence of lethal osteogenesis imperfecta due to parental mosaicism for a dominant mutation in a human type I collagen gene (COL1A1). Cohn DH, et al. **Am J Hum Genet** 1990 Mar;46(3):591–601

Genetic linkage analysis of hereditary arthro-ophthalmopathy (Stickler syndrome) and the type II procollagen gene. Knowlton RG, et al. **Am J Hum Genet** 1989 Nov;45(5):681–8

Molecular cloning of alpha 5(IV) collagen and assignment of the gene to the region of the X chromosome containing the Alport syndrome locus. Myers JC, et al. **Am J Hum Genet** 1990 Jun;46(6):1024–33

Linkage disequilibrium between two restriction sites in the COL2A1 gene [letter] Schwartz RC, et al. **Am J Hum Genet** 1990 Jun;46(6):1214–5

Consistent linkage of dominantly inherited osteogenesis imperfecta to the type I collagen loci: COL1A1 and COL1A2. Sykes B, et al. **Am J Hum Genet** 1990 Feb; 46(2):293–307

A likelihood-based analysis of consistent linkage of a disease locus to two nonsyntenic marker loci: osteogenesis imperfecta versus COL1A1 and COL1A2 [letter] Weeks DE. **Am J Hum Genet** 1990 Sep;47(3):592–4

Inherited disorders of collagen gene structure and expression. Byers PH. **Am J Med Genet** 1989 Sep;34(1):72–80 (92 ref.)

Regional heterogeneity of elastin and collagen gene expression in intralobar arteries in response to hypoxic pulmonary hypertension as demonstrated by in situ hybridization. Prosser IW, et al. **Am J Pathol** 1989 Dec; 135(6):1073–88

Collagen gene expression. Adams SL. **Am J Respir Cell Mol Biol** 1989 Sep;1(3):161–8 (56 ref.)

The gene for the alpha 2 chain of the human fibrillar collagen type XI (COL11A2) assigned to the short arm of chromosome 6. Law ML, et al. **Ann Hum Genet** 1990 Jan; 54 (Pt 1):23–9

The study of collagen structure and function by site-directed mutagenesis of collagen genes. Bateman JF, et al. **Ann N Y Acad Sci** 1990;580:324–9

The structure of type VI collagen. Chu ML, et al. **Ann N Y Acad Sci** 1990;580:55–63

Transcriptional mechanisms controlling types I and III collagen genes. De Crombrugghe B, et al. **Ann N Y Acad Sci** 1990;580:88–96

The structure of type XII collagen. Gordon MK, et al. **Ann N Y Acad Sci** 1990;580:8–16 (15 ref.)

The regulation of the expression of genes encoding basement membrane proteins during the retinoic acid-associated differentiation of murine teratocarcinoma cells. Gudas LJ, et al. **Ann N Y Acad Sci** 1990;580:245–51

Collagen and fibronectin gene expression in cultured endothelial cells. Myers JC, et al. **Ann N Y Acad Sci** 1990; 580:120–31

Tissue-specific expression of type IX collagen. Nishimura I, et al. **Ann N Y Acad Sci** 1990;580:112–9 (20 ref.)

Regulation of divergent transcription of the genes coding for basement membrane type IV collagen. Pollner R, et al. **Ann N Y Acad Sci** 1990;580:44–54

Fibrillar collagen genes. Structure and expression in normal and diseased states. Ramirez F, et al. **Ann N Y Acad Sci** 1990;580:74–80 (42 ref.)

The structure and macromolecular organization of type IX collagen in cartilage. Shimokomaki M, et al. **Ann N Y Acad Sci** 1990;580:1–7 (17 ref.)

Mapping collagen gene mutations. Sykes B. **Ann N Y Acad Sci** 1990;580:385–9 (10 ref.)

Structure of the human type IV collagen genes. Tryggvason K, et al. **Ann N Y Acad Sci** 1990;580:97–111 (57 ref.)

Regulation of the collagen II gene in vitro and in transgenic mice. Yamada Y, et al. **Ann N Y Acad Sci** 1990;580:81–7

The family of collagen genes. Vuorio E, et al. **Annu Rev Biochem** 1990;59:837–72 (206 ref.)

Genes for MHC, TCR and MIs determine susceptibility to collagen induced arthritis. David CS. **APMIS** 1990 Jul; 98(7):575–84

Codon usage pattern in alpha 2(I) chain domain of chicken type I collagen and its implications for the secondary structure of the mRNA and the synthesis pauses of the collagen. Zama M. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):772–6

Transcriptional control of the alpha 1(I) collagen gene involves orientation- and position-specific intronic sequences. Sherwood AL, et al. **Biochem J** 1990 Feb 1; 265(3):895–7

Structural and functional features of the alpha 3 chain indicate a bridging role for chicken collagen VI in connective tissues. Bonaldo P, et al. **Biochemistry** 1990 Feb 6;29(5):1245–54

Characterization of two genetically distinct type I-like collagens from lamprey (Entosphenus japonicus). Matsui R, et al. **Comp Biochem Physiol [B]** 1990;95(4):669–75

Effects of cell shape on type X collagen gene expression in hypertrophic chondrocytes. Adams SL, et al. **Connect Tissue Res** 1989;20(1–4):223–32

Collagen protein abnormalities produced by site-directed mutagenesis of the pro alpha 1(I) gene. Bateman JF, et al. **Connect Tissue Res** 1989;20(1–4):205–12; discussion 261–3

Hormonal regulation of collagen gene expression in osteoblastic cell–overview and new findings. Kream B, et al. **Connect Tissue Res** 1989;20(1–4):187–92 (32 ref.)

Molecular pathobiology of human collagens. Ramirez F, et al. **Connect Tissue Res** 1989;21(1–4):79–88; discussion 89 (38 ref.)

Osteoporosis and familial idiopathic scoliosis: association with an abnormal alpha 2(I) collagen. Shapiro JR, et al. **Connect Tissue Res** 1989;21(1–4):117–23; discussion 124

Assignment of the gene coding for the alpha 1 chain of collagen type XIII (COL13A1) to human chromosome region 10q11——qter. Pajunen L, et al. **Cytogenet Cell Genet** 1989;52(3–4):190–3

Transcription of a mutant collagen I gene is a cell type and stage-specific marker for odontoblast and osteoblast differentiation. Schwarz M, et al. **Development** 1990 Apr; 108(4):717–26

Proteoglycan core protein and type II collagen gene expressions are not correlated with cell shape changes during low density chondrocyte cultures. Mallein-Gerin F, et al. **Differentiation** 1990 Jun;43(3):204–11

Sequence analysis of alpha 1(VI) and alpha 2(VI) chains of human type VI collagen reveals internal triplication of globular domains similar to the A domains of von Willebrand factor and two alpha 2(VI) chain variants that differ in the carboxy terminus. Chu ML, et al. **EMBO J** 1989 Jul;8(7):1939–46

Mosaic structure of globular domains in the human type VI collagen alpha 3 chain: similarity to von Willebrand factor, fibronectin, actin, salivary proteins and aprotinin type protease inhibitors. Chu ML, et al. **EMBO J** 1990 Feb; 9(2):385–93

Leukemia inhibitory factor suppresses proliferation, alkaline phosphatase activity, and type I collagen messenger ribonucleic acid level and enhances osteopontin mRNA level in murine osteoblast-like (MC3T3E1) cells. Noda M, et al. **Endocrinology** 1990 Jul;127(1):185–90

Cloning and sequencing of a Porifera partial cDNA coding for a short-chain collagen. Exposito JY, et al. **Eur J Biochem** 1990 Jun 20;190(2):401–6

Haemonchus contortus: evidence that the 3A3 collagen gene is a member of an evolutionarily conserved family of nematode cuticle collagens. Cox GN, et al. **Exp Parasitol** 1990 Feb;70(2):175–85

Complex and diversified regulatory programs control the expression of vertebrate collagen genes. Ramirez F, et al. **FASEB J** 1990 Apr 1;4(6):1616–23 (43 ref.)

Expression of mRNAs for collagens and other matrix components in dedifferentiating and redifferentiating human chondrocytes in culture. Elima K, et al. **FEBS Lett** 1989 Dec 4;258(2):195–8

Albumin and collagen gene regulation in alcohol- and virus-induced human liver disease. Annoni G, et al. **Gastroenterology** 1990 Jan;98(1):197–202

Cloning and expression of a collagen-analog-encoding synthetic gene in Escherichia coli. Goldberg I, et al. **Gene** 1989 Aug 15;80(2):305–14

Structural and functional analysis of the first intron of the human alpha 2(I) collagen-encoding gene. Sherwood AL, et al. **Gene** 1990 May 14;89(2):239–44

The human alpha 2(XI) collagen gene (COL11A2) maps to the centromeric border of the major histocompatibility complex on chromosome 6. Hanson IM, et al. **Genomics** 1989 Nov;5(4):925–31

Owl monkey gene map: evidence for a homologous human chromosome 7q region near the cystic fibrosis locus. Ma NS, et al. **Genomics** 1989 Oct;5(3):389–96

Ito-cell gene expression and collagen regulation. Weiner FR, et al. **Hepatology** 1990 Jan;11(1):111–7

Haplotype frequencies of the collagen type-I genes in the Italian population. Mottes M, et al. **Hum Genet** 1989 Nov; 83(4):369–72

Identification of a cartilage-specific promoter within intron 2 of the chick alpha 2(I) collagen gene. Bennett VD, et al. **J Biol Chem** 1990 Feb 5;265(4):2223–30

Functional analysis of cis-acting DNA sequences controlling transcription of the human type I collagen genes. Boast S, et al. **J Biol Chem** 1990 Aug 5;265(22):13351–6

An intron mutation in the human alpha 1(I) collagen gene alters the efficiency of pre-mRNA splicing and is associated with osteogenesis imperfecta type II. Bonadio J, et al. **J Biol Chem** 1990 Feb 5;265(4):2262–8

The carboxyl terminus of the chicken alpha 3 chain of collagen VI is a unique mosaic structure with glycoprotein Ib-like, fibronectin type III, and Kunitz modules. Bonaldo P, et al. **J Biol Chem** 1989 Dec 5;264(34):20235–9

Subpopulations of rat lung fibroblasts with different amounts of type I and type III collagen mRNAs. Breen E, et al. **J Biol Chem** 1990 Apr 15;265(11):6286–90

DNA methylation and collagen IV gene expression in F9 teratocarcinoma cells. Burbelo PD, et al. **J Biol Chem** 1990 Mar 25;265(9):4839–43

Cloning of a fibrillar collagen gene expressed in the mesenchymal cells of the developing sea urchin embryo. D'Alessio M, et al. **J Biol Chem** 1990 Apr 25;265(12):7050–4

Regulation of alpha 1 (I)-collagen gene expression in response to cell adhesion in Swiss 3T3 fibroblasts. Dhawan J, et al. **J Biol Chem** 1990 Jun 5;265(16):9015–21

Stabilization of the mRNA follows transcriptional activation of type II collagen gene in differentiating chicken chondrocyte. Dozin B, et al. **J Biol Chem** 1990 May 5; 265(13):7216–20

Phorbol ester-induced inhibition of collagen accumulation by human lung fibroblasts. Goldstein RH, et al. **J Biol Chem** 1990 Aug 15;265(23):13623–8

Type XII collagen. A large multidomain molecule with partial homology to type IX collagen. Gordon MK, et al. **J Biol Chem** 1989 Nov 25;264(33):19772–8

The two Caenorhabditis elegans basement membrane (type IV) collagen genes are located on separate chromosomes. Guo XD, et al. **J Biol Chem** 1989 Oct 15;264(29):17574–82

The triple-helical domain of alpha 2(VI) collagen is encoded by 19 short exons that are multiples of 9 base pairs. Hayman AR, et al. **J Biol Chem** 1990 Jun 15;265(17):9865–8

Cell adhesion to collagen and decreased myogenic gene expression implicated in the control of myogenesis by transforming growth factor beta. Heino J, et al. **J Biol Chem** 1990 Jun 25;265(18):10181–4

Increases in mRNA concentrations of the alpha and beta subunits of prolyl 4-hydroxylase accompany increased gene expression of type IV collagen during differentiation of mouse F9 cells. Helaakoski T, et al. **J Biol Chem** 1990 Jul 15;265(20):11413–6

Two different negative and one positive regulatory factors interact with a short promoter segment of the alpha 1 (I) collagen gene. Karsenty G, et al. **J Biol Chem** 1990 Jun 15;265(17):9934–42

Tissue-specific forms of type IX collagen-proteoglycan arise from the use of two widely separated promoters. Nishimura I, et al. **J Biol Chem** 1989 Nov 25;264(33):20033–41

Complete primary structure of the triple-helical region and the carboxyl-terminal domain of a new type IV collagen chain, alpha 5(IV). Pihlajaniemi T, et al. **J Biol Chem** 1990 Aug 15;265(23):13758–66

Mutations that alter the primary structure of type I collagen. The perils of a system for generating large structures by the principle of nucleated growth. Prockop DJ. **J Biol Chem** 1990 Sep 15;265(26):15349–52 (34 ref.)

Opposing effects of fibroblast growth factor and pertussis toxin on alkaline phosphatase, osteopontin, osteocalcin, and type I collagen mRNA levels in ROS 17/2.8 cells. Rodan SB, et al. **J Biol Chem** 1989 Nov 25;264(33):19934–41

Alternative splicing of the human alpha 2(VI) collagen gene generates multiple mRNA transcripts which predict three protein variants with distinct carboxyl termini. Saitta B, et al. **J Biol Chem** 1990 Apr 15;265(11):6473–80

Two silencers regulate the tissue-specific expression of the collagen II gene. Savagner P, et al. **J Biol Chem** 1990 Apr 25;265(12):6669–74

In vivo and in vitro noncovalent association of excised alpha 1 (I) amino-terminal propeptides with mutant pN alpha 2(I) collagen chains in native mutant collagen in a case of Ehlers-Danlos syndrome, type VII. Wirtz MK, et al. **J Biol Chem** 1990 Apr 15;265(11):6312–7

In vitro development of hypertrophic chondrocytes starting from selected clones of dedifferentiated cells. Quarto R, et al. **J Cell Biol** 1990 Apr;110(4):1379–86

Type IV collagen mRNA accumulates in the mesenchymal compartment at early stages of murine developing intestine. Simon-Assmann P, et al. **J Cell Biol** 1990 Mar; 110(3):849–57

Modulation of type X collagen gene expression by calcium beta-glycerophosphate and levamisole: implications for a possible role for type X collagen in endochondral bone formation. Thomas JT, et al. **J Cell Sci** 1990 Apr;95 (Pt 4):639–48

Osteogenesis imperfecta. The position of substitution for glycine by cysteine in the triple helical domain of the pro alpha 1(I) chains of type I collagen determines the clinical phenotype. Starman BJ, et al. **J Clin Invest** 1989 Oct;

84(4):1206–14

Frameshift mutation near the 3' end of the COL1A1 gene of type I collagen predicts an elongated Pro alpha 1(I) chain and results in osteogenesis imperfecta type I [published erratum appears in J Clin Invest 1990 Apr;85(4):following 1338] Willing MC, et al. **J Clin Invest** 1990 Jan;85(1):282–90

Liver collagen mRNA and serum amino–terminal peptide of type III procollagen (PIIINP) levels in patients with alcoholic liver disease. Leblond–Francillard M, et al. **J Hepatol** 1989 Nov;9(3):351–8

Localization of cytoplasmic collagen mRNA in human aortic coarctation: mRNA enhancement in high blood pressure–induced intimal and medial thickening. Jaeger E, et al. **J Histochem Cytochem** 1990 Sep;38(9):1365–75

Albumin and collagen mRNA expression in normal and analbuminemic rodent liver: analysis by in situ hybridization using biotinylated probes. Saber MA, et al. **J Histochem Cytochem** 1990 Feb;38(2):199–207

Prenatal diagnosis and prevention of inherited abnormalities of collagen. Pope FM, et al. **J Inherited Metab Dis** 1989; 12 Suppl 1:135–73 (75 ref.)

Exclusion of COL2A1 as a candidate gene in a family with Wagner–Stickler syndrome. Fryer AE, et al. **J Med Genet** 1990 Feb;27(2):91–3

Segregation analysis of dominant osteogenesis imperfecta in Italy. Mottes M, et al. **J Med Genet** 1990 Jun;27(6):367–70

Tandemly duplicated Caenorhabditis elegans collagen genes differ in their modes of splicing. Park YS, et al. **J Mol Biol** 1990 Jan 20;211(2):395–406

Evolution of collagen IV genes from a 54–base pair exon: a role for introns in gene evolution. Butticè G, et al. **J Mol Evol** 1990 Jun;30(6):479–88

Phenol red mimics biological actions of estradiol: enhancement of osteoblast proliferation in vitro and of type I collagen gene expression in bone and uterus of rats in vivo. Ernst M, et al. **J Steroid Biochem** 1989 Nov; 33(5):907–14

Expression of collagenlike sequences by a tumor virus, herpesvirus saimiri. Geck P, et al. **J Virol** 1990 Jul; 64(7):3509–15

Human type II collagen gene (COL2A1) assigned to chromosome 12q13.1–q13.2 by in situ hybridization with biotinylated DNA probe. Takahashi E, et al. **Jinrui Idengaku Zasshi** 1989 Dec;34(4):307–11

Identification of variant Alport phenotypes using an Alport–specific antibody probe. Kashtan CE, et al. **Kidney Int** 1989 Oct;36(4):669–74

Transforming growth factor–beta 1 and type I procollagen transcripts during regeneration and early fibrosis of rat liver. Nakatsukasa H, et al. **Lab Invest** 1990 Aug; 63(2):171–80

Type VI collagen. In situ hybridizations and immunohistochemistry reveal abundant mRNA and protein levels in human neurofibroma, schwannoma and normal peripheral nerve tissues. Peltonen J, et al. **Lab Invest** 1990 Apr;62(4):487–92

Transforming growth factor–beta stimulates wound healing and modulates extracellular matrix gene expression in pig skin. I. Excisional wound model. Quaglino D Jr, et al. **Lab Invest** 1990 Sep;63(3):307–19

Segmental amplification of the entire helical and telopeptide regions of the cDNA for human alpha 1 (I) collagen. Labhard ME, et al. **Matrix** 1990 May;10(2):124–30

Expression of chloramphenicol acetyltransferase (CAT) from rodent type I collagen promoters in transfected osteosarcoma cells in vivo. Zernik J, et al. **Matrix** 1989 Nov;9(5):376–81

Comparison of collagen gene sequences in Ascaris suum and Caenorhabditis elegans. Kingston IB, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):137–46

Cuticle collagen genes of Haemonchus contortus and Caenorhabditis elegans are highly conserved. Shamansky LM, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):73–85

Expression of collagen genes in the liver. Brenner DA, et al. **Mol Biol Med** 1990 Apr;7(2):105–15

The Caenorhabditis elegans rol–6 gene, which interacts with the sqt–1 collagen gene to determine organismal morphology, encodes a collagen. Kramer JM, et al. **Mol Cell Biol** 1990 May;10(5):2081–9

Human–mouse interspecies collagen I heterotrimer is functional during embryonic development of Mov13 mutant mouse embryos. Wu H, et al. **Mol Cell Biol** 1990 Apr;10(4):1452–60

Autosomal dominant spondyloarthropathy: no linkage to the type II collagen gene [letter] Superti–Furga A, et al. **N Engl J Med** 1990 Feb 22;322(8):552–3

A stuI RFLP in the human COL11A2 gene. Cheah KS, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4964

An EcoRI RFLP in the human alpha 2 (XI) (COL 11A2) gene. Cheah KS, et al. **Nucleic Acids Res** 1990 Jan 25; 18(2):387

Detection of point mutations in type I collagen by RNase digestion of RNA/RNA hybrids. Grange DK, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4227–36

A Bam H1 RFLP in the human alpha 2 (X1) (COL 11A2) gene. Priestley LM, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):689

Human collagen, type II, alpha 1, (COL2A1) gene: VNTR polymorphism detected by gene amplification. Wu S, et al. **Nucleic Acids Res** 1990 May 25;18(10):3102

Transgenic mouse model of the mild dominant form of osteogenesis imperfecta. Bonadio J, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7145–9

Structure and developmental expression of a sea urchin fibrillar collagen gene. D'Alessio M, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9303–7

Characterization of a fibrillar collagen gene in sponges reveals the early evolutionary appearance of two collagen gene families. Exposito JY, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6669–73

Identification of a distinct type IV collagen alpha chain with restricted kidney distribution and assignment of its gene to the locus of X chromosome–linked Alport syndrome. Hostikka SL, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(4):1606–10

The alpha 1 (IX) collagen gene gives rise to two different transcripts in both mouse embryonic and human fetal RNA. Muragaki Y, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2400–4

Tandem duplication within a type II collagen gene (COL2A1) exon in an individual with spondyloepiphyseal dysplasia. Tiller GE, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3889–93

New insights into the molecular pathology of osteogenesis imperfecta. Cole WG, et al. **Q J Med** 1989 Jan;70(261):1–4 (13 ref.)

Modulation of sulfated proteoglycan synthesis and collagen gene expression by chondrocytes grown in the presence of bFGF alone or combined with IGF1. Nataf V, et al. **Reprod Nutr Dev** 1990;30(3):331–42

Control of type I collagen genes in scleroderma and normal fibroblasts. de Crombrugghe B, et al. **Rheum Dis Clin North Am** 1990 Feb;16(1):109–23 (26 ref.)

Identification of mutations in the COL4A5 collagen gene in Alport syndrome. Barker DF, et al. **Science** 1990 Jun 8;248(4960):1224–7

Type III collagen mutations and cerebra. .eurysms [letter; comment] Pope FM. **Stroke** 1989 Oct;20(10):1432–3 Comment on: Stroke 1989 Apr;20(4):561.

Molecular characterization of a type II collagen defect in spondyloepiphyseal dysplasia. Lee B, et al. **Trans Assoc Am Physicians** 1989;102:20–9

[The effects of transforming growth factor beta 1 on mouse osteoblastic cell line MC3T3–E1—especially on gene expression of differentiation markers] Nifuji A. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):106–15 (Eng. Abstr.) **(Jpn)**

[Clinical significance of collagen gene expression in biochemical tests] Motomura M, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:123–7 **(Jpn)**

[Molecular biological approach to orthopaedic research—analysis of cartilage collagens] Kimura T, et al. **Nippon Seikeigeka Gakkai Zasshi** 1989 Sep;63(9):1132–44 **(Jpn)**

[Collagen metabolic disorders—Ehlers–Danlos syndrome and osteogenesis imperfecta] Nagai Y. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):801–4 **(Jpn)**

IMMUNOLOGY

Evidence of delayed mesangial transport of human IgA in glomeruli of ddY mice pretreated with sheep anti–type IV collagen serum. Masuda Y, et al. **Acta Pathol Jpn** 1989 May;39(5):289–95

Effects of indomethacin, cyclosporin, cyclophosphamide, and placebo on collagen–induced arthritis of mice. Cannon GW, et al. **Agents Actions** 1990 Mar;29(3–4):315–23

Chronic inflammation induced by type I collagen in rats. Franch MA, et al. **Allergol Immunopathol (Madr)** 1989 May–Jun;17(3):171–5

Phagocytosis of collagen by mouse decidual cells. Zorn TM, et al. **Anat Rec** 1989 Oct;225(2):96–100

Lack of serum antibodies to native type II collagen in leprosy [letter] Clague RB, et al. **Ann Rheum Dis** 1990 Jan;49(1):67

What do anti–collagen antibodies mean? Morgan K. **Ann Rheum Dis** 1990 Jan;49(1):62–5 (63 ref.)

Associations between HLA and antibodies to collagen in rheumatoid arthritis. Rowley MJ, et al. **Ann Rheum Dis** 1990 Aug;49(8):578–81

The effect of fixatives and paraffin embedding on the histochemical reactivity of a monoclonal antibody against human type IV collagen (JK–199). Adachi E, et al. **Arch Histol Cytol** 1989 Dec;52(5):477–83

Arthritogenicity of minor cartilage collagens (types IX and XI) in mice. Boissier MC, et al. **Arthritis Rheum** 1990 Jan; 33(1):1–8

Homologous type II collagen–induced arthritis in rats. Characterization of the disease and demonstration of clinically distinct forms of arthritis in two strains of rats after immunization with the same collagen preparation. Larsson P, et al. **Arthritis Rheum** 1990 May;33(5):693–701

IgG subclasses of antibodies to the collagen–like region of C1q in patients with systemic lupus erythematosus. Uwatoko S, et al. **Arthritis Rheum** 1989 Dec;32(12):1601–3

Immunogenicity of collagenous implants. Meade KR, et al. **Biomaterials** 1990 Apr;11(3):176–80

Epidermolysis bullosa acquisita antigen and the carboxy terminus of type VII collagen have a common immunolocalization to anchoring fibrils and lamina densa of basement membrane. Shimizu H, et al. **Br J Dermatol** 1990 May;122(5):577–85

Anti–type II collagen antibody in naturally occurring canine joint diseases. Bari AS, et al. **Br J Rheumatol** 1989 Dec; 28(6):480–6

Diversity of antibodies to type II collagen in patients with rheumatoid arthritis: detection by binding to alpha–chains and to cyanogen bromide peptides. Buckee C, et al. **Br J Rheumatol** 1990 Aug;29(4):254–8

Characterization of the antibody response against the type II collagen induced by anti–idiotypic antibody. Iribe H, et al. **Cell Immunol** 1990 Jul;128(2):400–11

Methylacetylenic putrescine (MAP), an inhibitor of polyamine biosynthesis, prevents the development of collagen–induced arthritis. Wolos JA, et al. **Cell Immunol** 1990 Feb;125(2):498–507

Collagen–induced arthritis in mice. VI. Synovial cells from collagen arthritic mice activate autologous lymphocytes in vitro. Wooley PH, et al. **Cell Immunol** 1989 Dec; 124(2):227–38

Immunological properties of type IV collagen from mouse kidney. Oikawa T, et al. **Chem Pharm Bull (Tokyo)** 1990 Jan;38(1):172–5

Linomide, a new immunomodulatory drug, shows different effects on homologous versus heterologous collagen–induced arthritis in rats. Kleinau S, et al. **Clin Exp Immunol** 1989 Oct;78(1):138–42

The effect of treatment with interferon–gamma on type II collagen–induced arthritis. Nakajima H, et al. **Clin Exp Immunol** 1990 Sep;81(3):441–5

Cross–reactivity between the EBNA–1 p107 peptide, collagen, and keratin: implications for the pathogenesis of rheumatoid arthritis. Birkenfeld P, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):14–25

Biocompatibility of human collagen type IV intracorneal implants. Dupont D, et al. **Cornea** 1989 Dec;8(4):251–8

Characterisation of a monoclonal antibody against native human type I collagen. Werkmeister JA, et al. **Eur J Biochem** 1990 Jan 26;187(2):439–43

Analysis of type II collagen–reactive T cells in the mouse. I. Different regulation of autoreactive vs. non–autoreactive anti–type II collagen T cells in the DBA/1 mouse. Andersson M, et al. **Eur J Immunol** 1990 May;20(5):1061–6

Type II collagen–specific human T cell lines established from healthy donors. Lacour M, et al. **Eur J Immunol** 1990 Apr; 20(4):931–4

Immune response to collagen impregnated Dacron double velour grafts for aortic and aorto–femoral reconstructions. Norgren L, et al. **Eur J Vasc Surg** 1990 Aug;4(4):379–84

Antibodies to type II collagen in SLE: a role in the pathogenesis of deforming arthritis? Choi EK, et al. **Immunol Cell Biol** 1990 Feb;68 (Pt 1):27–31

Inhibition of collagen II–induced arthritis in mice—a comparison of the effects of Sch 24937, immunosuppressants and nonsteroidal antiinflammatory drugs on the clinical expression of disease. Smith SR, et al. **Int J Immunopharmacol** 1990;12(2):165–73

The monoclonal antibody GRC1 produced against human cornea recognizes a common determinant of collagen. Lopez Nevot MA, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):290–3

Reactions to a bovine collagen implant. Clinical and immunologic study in 705 patients. Charriere G, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1203–8

T–cell receptor V beta genes repertoire in mice. Possible role in resistance and susceptibility to type II collagen–induced arthritis. Haqqi TM, et al. **J Autoimmun** 1990 Apr;3(2):113–21 (28 ref.)

Development of monoclonal antibodies to collagens for assessing host–implant interactions. Werkmeister JA, et al. **J Biomed Mater Res** 1989 Dec;23(A3 Suppl):273–83

Immunologic study of artificial skin used in the treatment of thermal injuries. Michaeli D, et al. **J Burn Care Rehabil** 1990 Jan–Feb;11(1):21–6

Immunogenicity of injectable collagen implants [letter; comment] Hartmann DJ, et al. **J Dermatol Surg Oncol** 1990 Apr;16(4):394 Comment on: J Dermatol Surg Oncol 1987 Nov;13(11):1199–202.

Identification of an immunosuppressive epitope of type II collagen that confers protection against collagen–induced arthritis. Myers LK, et al. **J Exp Med** 1989 Dec 1; 170(6):1999–2010

T cell regulation of collagen–induced arthritis in mice. I. Isolation of Type II collagen–reactive T cell hybridomas with specific cytotoxic function. Chiocchia G, et al. **J Immunol** 1990 Jul 15;145(2):519–25

Distribution of antibodies against denatured collagen in AIDS risk groups and homosexual AIDS patients suggests a link between autoimmunity and the immunopathogenesis of AIDS. Grant MD, et al. **J Immunol** 1990 Feb 15; 144(4):1241–50

CD4–CD8– T cells from mice with collagen arthritis display aberrant expression of type 1 K+ channels. Grissmer S, et al. **J Immunol** 1990 Oct 1;145(7):2105–9

An improved enzyme–linked immunosorbent assay of anti–collagen antibodies in human serum. Fujii K, et al. **J Immunol Methods** 1989 Nov 13;124(1):63–70

Constant darkness enhances autoimmunity to type II collagen and exaggerates development of collagen–induced arthritis in DBA/1 mice. Hansson I, et al. **J Neuroimmunol** 1990 Apr;27(1):79–84

A comparison of antibodies to type VII and type IV collagen laminin and amnion as epidermal basement membrane markers. Kirkham N, et al. **J Pathol** 1989 Sep;159(1):5–6

Antibody to collagen type I in gingival crevicular fluid. Refaie A, et al. **J Periodontol** 1990 May;61(5):289–92

Type II collagen induced arthritis in mice. V. The role of

the spleen cell response in the immune and arthritogenic reaction to type II collagen. Wooley PH, et al. **J Rheumatol** 1989 Sep;16(9):1192–6

Collagenous structures present in brain contain epitopes shared by collagen and microtubule–associated protein tau. Montejo de Garcini E, et al. **J Struct Biol** 1990 Mar; 103(1):34–9

Type II collagen–induced murine arthritis. II. Genetic control of arthritis induction is expressed on L3T4+ T cells required for humoral as well as cell–mediated immune responses to type II collagen. Seki N, et al. **Reg Immunol** 1989 Jul–Aug;2(4):203–12

Experimental immune mediated arthritis in rhesus monkeys. A model for human rheumatoid arthritis? Bakker NP, et al. **Rheumatol Int** 1990;10(1):21–9

Arthritis in DBA/1 mice induced with passively transferred type II collagen immune serum. Immunohistopathology and serum levels of anti–type II collagen auto–antibodies. Holmdahl R, et al. **Scand J Immunol** 1990 Feb;31(2):147–57

[Monoclonal antibodies against human type IV collagen: preparation and its application in IgA nephropathy] Yu L. **Chung Hua I Hsueh Tsa Chih** 1990 Apr;70(4):205–7, 16 (Eng. Abstr.) **(Chi)**

[Clinical and experimental anticollagen autoimmunity] Boissier MC, et al. **C R Soc Biol (Paris)** 1989;183(4):293–306 (39 ref.) **(Fre)**

[Histopathological study of arthritic lesions induced by immunization with type II collagen in DBA/1J mouse] Imaizumi K, et al. **Jikken Dobutsu** 1990 Jan;39(1):27–34 (Eng. Abstr.) **(Jpa)**

[Autoimmunity to collagen in arthritis] Fujii K. **Nippon Seikeigeka Gakkai Zasshi** 1990 Jan;64(1):112–21 (10 ref.) **(Jpa)**

[A method of immunoelectron microscopy using water–soluble resins and colloid gold–labeled antibodies] Nanaev AK, et al. **Arkh Anat Gistol Embriol** 1990 Jan; 98(1):82–5 **(Rus)**

[Antibodies to type I and II collagen in rheumatoid arthritis and chronic cicatricial stenosis of the larynx and trachea in children] Shuster AM, et al. **Sov Med** 1989;(9):32–5 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Characterization of two possible forms of type IV collagen from human kidney cortex. Oikawa T, et al. **Biochem Int** 1989 Sep;19(3):615–24

Isolation of bovine type X collagen and immunolocalization in growth–plate cartilage. Kirsch T, et al. **Biochem J** 1990 Jan 15;265(2):453–9

Human type VI collagen: isolation and characterization of alpha 1 and alpha 2 chains by two–dimensional preparative gel electrophoresis. Wegrowski J, et al. **Biochim Biophys Acta** 1990 Jun 19;1039(2):189–96

Collagens of normal and cirrhotic human liver. Aycock RS, et al. **Connect Tissue Res** 1989;23(1):19–31

Diamines and aminoalcohols: neutral solvents for native collagen. Davison PF. **Connect Tissue Res** 1990; 24(2):129–41

Comparison of non–collagenous type IV collagen subunits in human glomerular basement membrane, alveolar basement membrane, and placenta. Shen GQ, et al. **Connect Tissue Res** 1990;24(3–4):289–301

Unusual dissociative behavior of the noncollagenous domain (hexamer) of basement membrane collagen during electrophoresis and chromatofocusing. Timoneda J, et al. **Connect Tissue Res** 1990;24(3–4):169–86

Characteristics and in vivo occurrence of type VIII collagen. Jander R, et al. **Eur J Biochem** 1990 May 20;189(3):601–7

Undulin, an extracellular matrix glycoprotein associated with collagen fibrils. Schuppan D, et al. **J Biol Chem** 1990 May 25;265(15):8823–32

Separation of collagens by capillary zone electrophoresis. Deyl Z, et al. **J Chromatogr** 1989 Oct 20;480:371–8

Characterization of type IV collagen NC1 monomers and Goodpasture antigen in human renal basement membranes. Butkowski RJ, et al. **J Lab Clin Med** 1990 Mar; 115(3):365–73

[Isolation and purification of collagen proteins using biospecific chromatography on a sorbent with collagen–binding fragment of fibronectin] Bychkova VV, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):129–33 (Eng. Abstr.) **(Rus)**

METABOLISM

Collagen degradation and mucosal mast cell in endometrium of mouse uterus during early postpartum period. Miyoshi K, et al. **Acta Anat (Basel)** 1990;137(1):86–92

Immunofluorescence–microscopic localization of collagen type IV and VI, laminin and nidogen in the livers of Callithrix jacchus during pre– and postnatal development. Xu DQ, et al. **Acta Anat (Basel)** 1990;138(3):212–9

Connective–tissue macromolecules in Golgi chicken tendon organs and at their interface with muscle fibers and adjoining tendinous structures. Maier A, et al. **Am J Anat** 1990 Jul;188(3):239–48

Distribution of type IV collagen, laminin, and fibronectin during maxillary process formation in the chick embryo. Xu ZL, et al. **Am J Anat** 1990 Mar;187(3):232–46

Myocardial collagen remodeling in pressure overload hypertrophy. A case for interstitial heart disease. Weber KT, et al. **Am J Hypertens** 1989 Dec;2(12 Pt 1):931–40 (64 ref.)

Morphologic study of changes of collagenous tissue in the amnion and cervix during prostaglandin–induced abortion and delivery. Manabe Y, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):52–6

Different characteristics of amniotic and cervical collagenous tissue during pregnancy and delivery: a morphologic study. Yoshida Y, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):190–3

Origin of basement membrane type IV collagen in xenografted human epithelial tumor cell lines. Cleutjens JP, et al. **Am J Pathol** 1990 May;136(5):1165–72

Progressive interstitial collagen deposition in Coxsackievirus B3–induced murine myocarditis. Leslie KO, et al. **Am J Pathol** 1990 Mar;136(3):683–93

Biosynthesis of collagen crosslinks. III. In vivo labeling and stability of lung collagen in rats with bleomycin–induced pulmonary fibrosis. Last JA, et al. **Am J Respir Cell Mol Biol** 1989 Aug;1(2):111–7

Hydroxylation of collagen by lungs of rats administered bleomycin. Last JA, et al. **Am J Respir Cell Mol Biol** 1990 Jun;2(6):543–8

Neutrophils show chemotaxis to type IV collagen and its 7S domain and contain a 67 kD type IV collagen binding protein with lectin properties. Senior RM, et al. **Am J Respir Cell Mol Biol** 1989 Dec;1(6):479–87

Changes in the composition and metabolism of arterial collagens during the development of pulmonary hypertension in rabbits. Bishop JE, et al. **Am Rev Respir Dis** 1990 Feb;141(2):450–5

Remodeling of the lung in bleomycin–induced pulmonary fibrosis in the rat. An immunohistochemical study of laminin, type IV collagen, and fibronectin. Lazenby AJ, et al. **Am Rev Respir Dis** 1990 Jul;142(1):206–14

Determination of platelet adhesion to collagen and the associated formation of phosphatidic acid and calcium mobilization. Smith JB, et al. **Anal Biochem** 1990 May 15; 187(1):173–8

A nonradioactive assay for type IV collagen degradation. Wilkinson MJ, et al. **Anal Biochem** 1990 Mar;185(2):294–6

Immunohistochemical localization of type X collagen in the proximal tibiotarsi of broiler chickens and turkeys. Haynes JS. **Anat Rec** 1990 Jul;227(3):307–13

Elastic and collagenous fibers in the temporomandibular joint capsule of the rabbit and their functional relevance. Savalle WP, et al. **Anat Rec** 1990 Jun;227(2):159–66

Assembly of type I collagen fibrils de novo by the specific enzymic cleavage of pC collagen. The fibrils formed at about 37 degrees C are similar in diameter, roundness, and apparent flexibility to the collagen fibrils seen in connective tissue. Kadler KE, et al. **Ann N Y Acad Sci** 1990;580:214–24

Hypertrophic cartilage matrix. Type X collagen, supramolecular assembly, and calcification. Schmid TM, et al. **Ann N Y Acad Sci** 1990;580:64–73 (29 ref.)

Ammonium chloride inhibits basal degradation of newly synthesized collagen in human fetal lung fibroblasts. Barile FA, et al. **Arch Biochem Biophys** 1990 Jan;276(1):125–31

Collagen turnover in regenerating barbels of a catfish. Whitear M. **Arch Histol Cytol** 1990 Jul;53(3):283–6

Collagen phagocytosis by cementoblasts at the periodontal ligament–cementum interface. Yajima T, et al. **Arch Histol Cytol** 1989 Dec;52(5):521–8

Collagenolytic activity of the extracellular vesicles of Bacteroides gingivalis W50 and an avirulent variant W50/BE1. Smalley JW, et al. **Arch Oral Biol** 1989; 34(7):579–83

Collagen and elastin in the liver of rats intoxicated with mercuric chloride. Olczyk K, et al. **Arh Hig Rada Toksikol** 1990 Mar;41(1):1–6

An alpha 1/beta 1–like integrin receptor on rat aortic smooth muscle cells mediates adhesion to laminin and collagen types I and IV. Clyman RI, et al. **Arteriosclerosis** 1990 May–Jun;10(3):402–9

Collagen type III induced ex vivo thrombogenesis in humans. Role of platelets and leukocytes in deposition of fibrin. Sakariassen KS, et al. **Arteriosclerosis** 1990 Mar–Apr; 10(2):276–84

Lysis of fibrillar collagen by neutrophils in synovial fluid. A role for surface–bound immunoglobulins. Chatham WW, et al. **Arthritis Rheum** 1990 Sep;33(9):1333–9

Effect of calcium dobesilate on the inhibition of collagen fibrillogenesis by glucose in vitro. Schmut O. **Arzneimittelforschung** 1989 Dec;39(12):1555–7

Collagen degradation in I–cells is normal. Bienkowski RS, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):479–84

Production in Escherichia coli of a biologically active subfragment of von Willebrand factor corresponding to the platelet glycoprotein Ib, collagen and heparin binding domains. Piétu G, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1339–47

A novel mechanism for oxidative cleavage of prolyl peptides induced by the hydroxyl radical. Uchida K, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):265–71

Influence of collagen lattice on the metabolism of small proteoglycan II by cultured fibroblasts. Greve H, et al. **Biochem J** 1990 Jul 1;269(1):149–55

Changes in collagen and elastin in rabbit right–ventricular pressure overload. Low RB, et al. **Biochem J** 1989 Nov 1;263(3):709–13

Collagen degradation in ischaemic rat hearts. Takahashi S, et al. **Biochem J** 1990 Jan 1;265(1):233–41

A 48 kDa collagen–binding phosphoprotein isolated from bovine aortic endothelial cells interacts with the collagenous domain, but not the globular domain, of collagen type IV. Yannariello–Brown J, et al. **Biochem J** 1990 Jan 15;265(2):383–92

Influence of monosaccharides on the fibrillogenesis of type I collagen. Rathi AN, et al. **Biochem Med Metab Biol** 1989 Dec;42(3):209–15

Measurement of fibroblast collagen synthesis and degradation by reverse–phase high–pressure liquid chromatography. Campa JS, et al. **Biochem Soc Trans** 1989 Dec;17(6):1127–8

Proteoglycan–collagen interactions and sub–fibrillar structure in collagen fibrils: implications in the development and remodelling of connective tissues. Scott JE. **Biochem Soc Trans** 1990 Jun;18(3):489–90

In vitro collagen fibril assembly: thermodynamic studies. Na GC, et al. **Biochemistry** 1989 Sep 5;28(18):7153–61

Collagen, proteoglycan and hyaluronidase activity in cultures from normal and scoliotic chicken fibroblasts. Lien YH, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):318–25

Type I collagen degradation by mouse calvarial osteoblasts stimulated with 1,25–dihydroxyvitamin D–3: evidence for a plasminogen–plasmin–metalloproteinase activation cascade. Thomson BM, et al. **Biochim Biophys Acta** 1989 Nov 20;1014(2):125–32

Primary structure of the heparin–binding site of type V collagen. Yaoi Y, et al. **Biochim Biophys Acta** 1990 Aug 17;1035(2):139–45

Use of experimental models for the study of collagen degradation by macrophages. Bird IN, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:265–70

Collagenase activation of latent matrix–degrading proteinases from human plasma fibronectin. Imhoff JM, et al. **Biol Chem Hoppe Seyler** 1990 Feb;371(2):137–44

Changes in the proportion of type I and type III collagen in the developing and retained bovine placentome. Sharpe KL, et al. **Biol Reprod** 1990 Aug;43(2):229–35

Cellular invasion and breakdown of three different collagen films in the lumbar muscle of the rat. Gorham SD, et al. **Biomaterials** 1990 Mar;11(2):113–8

Stromal cell progeny of murine bone marrow fibroblast colony–forming units are clonal endothelial–like cells that express collagen IV and laminin. Perkins S, et al. **Blood** 1990 Feb 1;75(3):620–5

Metabolism of collagen in bone of adjuvant induced arthritic rat. Reddy GK, et al. **Bone** 1989;10(6):439–45

Type VII collagen is expressed but anchoring fibrils are defective in dystrophic epidermolysis bullosa inversa. Bruckner–Tuderman L, et al. **Br J Dermatol** 1990 Mar; 122(3):383–90

Collagen cross–link synthesis in cultured vascular endothelium. Levene CI, et al. **Br J Exp Pathol** 1989 Dec; 70(6):621–6

Co–operation between interleukin–1 and the fibrinolytic system in the degradation of collagen by articular chondrocytes. Cruwys SC, et al. **Br J Pharmacol** 1990 Jul; 100(3):631–5

Increased deposition of types III and V collagen in neurofibroma tissue from patients with von Recklinghausen disease. Konomi H, et al. **Brain Dev** 1989;11(6):378–83

Effect of autografting on the diameter of collagen fibrils in human postburn wounds. Takayanagi K, et al. **Burns** 1989 Oct;15(5):287–90

Swelling of cartilage and expansion of the collagen network [letter] Brown RA, et al. **Calcif Tissue Int** 1989 Oct; 45(4):260–1

Immunoelectron microscopy of osteonectin and type I collagen in osteoblasts and bone matrix. Romanowski R, et al. **Calcif Tissue Int** 1990 Jun;46(6):353–60

Iminodipeptiduria: a genetic defect in recycling collagen; a method for determining prolidase in erythrocytes. Jackson SH, et al. **Can Med Assoc J** 1975 Oct 18;113(8):759, 762–3

Basement membrane type IV collagen degradation: evidence for the involvement of a proteolytic cascade independent of metalloproteinases. Mackay AR, et al. **Cancer Res** 1990 Sep 15;50(18):5997–6001

Analysis of integrin receptors for laminin and type IV collagen on metastatic B16 melanoma cells. Ramos DM, et al. **Cancer Res** 1990 Feb 1;50(3):728–34

Collagen accumulation in heart ventricles as a function of growth and aging. Eghbali M, et al. **Cardiovasc Res** 1989 Aug;23(8):723–9

Age–dependent changes in collagen metabolism and response to hypertonic culture conditions of rat aortic smooth muscle cells and skin fibroblasts. Hata R. **Cell Biol Int Rep** 1990 Jan;14(1):25–33

A chondrogenic cell line derived from a differentiating culture of AT805 teratocarcinoma cells. Atsumi T, et al. **Cell Differ Dev** 1990 May;30(2):109–16

Collagen type IV of Drosophila is stockpiled in the growing oocyte and differentially located during early stages of embryogenesis. Knibiehler B, et al. **Cell Differ Dev** 1990 May;30(2):147–57

Histogenesis of the semilunar valves: an immunohistochemical analysis of tenascin and type–I collagen distribution in developing chick heart valves. Garcia–Martinez V, et al. **Cell Tissue Res** 1990 Feb; 259(2):299–304

Type–VI collagen in the human iris and ciliary body. Rittig M, et al. **Cell Tissue Res** 1990 Feb;259(2):305–12

Integrin receptors on aortic smooth muscle cells mediate adhesion to fibronectin, laminin, and collagen. Clyman RI,

et al. **Circ Res** 1990 Jul;67(1):175–86

Alterations in elastin and collagen related to the mechanism of progressive pulmonary venous obstruction in a piglet model. A hemodynamic, ultrastructural, and biochemical study. LaBourene JI, et al. **Circ Res** 1990 Feb;66(2):438–56

Collagen and elastin metabolism in hypertensive pulmonary arteries of rats. Poiani GJ, et al. **Circ Res** 1990 Apr; 66(4):968–78

Fibrillar collagen and remodeling of dilated canine left ventricle. Weber KT, et al. **Circulation** 1990 Oct; 82(4):1387–401

Markers of collagen metabolism in sera of patients with various rheumatic diseases. Myllylä R, et al. **Clin Chim Acta** 1989 Aug 31;183(3):243–52

Primary glomerular fibrosis: a new nephropathy caused by diffuse intra-glomerular increase in atypical type III collagen fibers. Ikeda K, et al. **Clin Nephrol** 1990 Apr; 33(4):155–9

An estimate of the mean length of collagen fibrils in rat tail-tendon as a function of age. Craig AS, et al. **Connect Tissue Res** 1989;19(1):51–62

The effect of complexing phosphoproteins to decalcified collagen on in vitro calcification. Endo A, et al. **Connect Tissue Res** 1989;21(1–4):179–90; discussion 191–6

The accumulation of type I collagen mRNAs in human embryonic lung fibroblasts stimulated by transforming growth factor-beta. Fine A, et al. **Connect Tissue Res** 1990; 24(3–4):237–47

Electron microscopic quantification of collagen fibril diameters in the rabbit medial collateral ligament: a baseline for comparison. Frank C, et al. **Connect Tissue Res** 1989; 19(1):11–25

Distribution of type VIII collagen in tissues: an immunohistochemical study. Kittelberger R, et al. **Connect Tissue Res** 1990;24(3–4):303–18

Vesicle- and collagen-mediated calcification in the turkey leg tendon. Landis WJ, et al. **Connect Tissue Res** 1989; 22(1–4):35–42; discussion 53–61

Matrix collagen of devitalized bone is resistant to osteoclastic bone resorption. Shimizu H, et al. **Connect Tissue Res** 1989; 20(1–4):169–75

Collagen metabolism in human colon adenocarcinoma. Turnay J, et al. **Connect Tissue Res** 1989;23(4):251–60

Covalent interactions of type IX collagen in cartilage. Wu JJ, et al. **Connect Tissue Res** 1989;20(1–4):241–6

Macular corneal dystrophy: reduction in both corneal thickness and collagen interfibrillar spacing. Quantock AJ, et al. **Curr Eye Res** 1990 Apr;9(4):393–8

Association between collagen and glycosaminoglycans is altered in dermal extracellular matrix of fetal Steel (Sld/Sld) mice. Morrison-Graham K, et al. **Dev Biol** 1990 Jun;139(2):308–13

Independent deposition of collagen types II and IX at epithelial–mesenchymal interfaces. Fitch JM, et al. **Development** 1989 Jan;105(1):85–95

Prevention of diabetes-increased aging effect on rat collagen-linked fluorescence by aminoguanidine and rutin. Odetti PR, et al. **Diabetes** 1990 Jul;39(7):796–801

Increased non-enzymatic glycosylation and reduced solubility of skin collagen in insulin-dependent diabetic patients. Salmela PI, et al. **Diabetes Res** 1989 Jul; 11(3):115–20

Collagenous colitis in setting of nonsteroidal antiinflammatory drugs and antibiotics. Giardiello FM, et al. **Dig Dis Sci** 1990 Feb;35(2):257–60

Crypt alterations and collagen deposition in hyperplastic polyps of colorectum. Grondin MV, et al. **Dig Dis Sci** 1990 Jan;35(1):12–9

A critical crosslink region in human-bone-derived collagen type I. Specific cleavage site at residue Leu95. Bätge B, et al. **Eur J Biochem** 1990 Aug 28;192(1):153–9

Direct adhesion to type I and homotrimer collagens by breast carcinoma and embryonic epithelial cells in culture: a comparative study. Ghersi G, et al. **Eur J Cell Biol** 1989 Dec;50(2):279–84

Altered collagen metabolism in osteogenesis imperfecta fibroblasts: a study on 33 patients with diverse forms. Brenner RE, et al. **Eur J Clin Invest** 1990 Feb;20(1):8–14

Piroxicam affects collagen changes around experimental intestinal anastomoses. Mastboom WJ, et al. **Eur Surg Res** 1989;21(6):305–12

Changes in collagen synthesis by human bone marrow fibroblasts with progressive subcultivation. Fernandez M, et al. **Exp Cell Biol** 1989;57(5):257–63

Mg2+ mediates the cell-substratum interaction of Arg-Gly-Asp-dependent HeLa cell collagen receptors. Beacham DA, et al. **Exp Cell Res** 1990 Jul;189(1):69–80

Beta 1 integrin-mediated collagen gel contraction is stimulated by PDGF. Gullberg D, et al. **Exp Cell Res** 1990 Feb;186(2):264–72

Heymann antigen GP330 demonstrates affinity for fibronectin, laminin, and type I collagen and mediates rat proximal tubule epithelial cell adherence to such matrices in vitro. Mendrick DL, et al. **Exp Cell Res** 1990 May; 188(1):23–35

Increases in collagen type IV and laminin in galactose-induced retinal capillary basement membrane thickening—prevention by an aldose reductase inhibitor. Das A, et al. **Exp Eye Res** 1990 Mar;50(3):269–80

Heparin fragments modulate the collagen phenotype of fibroblasts from radiation-induced subcutaneous fibrosis. el Nabout R, et al. **Exp Mol Pathol** 1989 Oct;51(2):111–22

Type VI collagen in experimental atherosclerosis. Kittelberger R, et al. **Experientia** 1990 Mar 15;46(3):264–7

Secretion and intracellular degradation of collagen in cultures of normal and SV-40-transformed human fibroblasts. Berman AE, et al. **FEBS Lett** 1990 Apr 24;263(2):285–8

A novel TIMP-insensitive type IV collagen-degrading metalloproteinase from murine metastatic sarcoma cells. Kato Y, et al. **FEBS Lett** 1990 Jul 30;268(1):39–42

Susceptibility of the cartilage collagens types II, IX and XI to degradation by the cysteine proteinases, cathepsins B and L. Maciewicz RA, et al. **FEBS Lett** 1990 Aug 20; 269(1):189–93

Degradation of type I and II collagen by human activated C1-s. Yamaguchi K, et al. **FEBS Lett** 1990 Jul 30; 268(1):206–8

Binding of type-I and type-II collagens to Staphylococcus aureus strains isolated from patients with toxic shock syndrome compared to other staphylococcal infections. Naidu AS, et al. **FEMS Microbiol Immunol** 1989 Mar; 1(4):219–27

Vitronectin and type-I collagen binding by Staphylococcus aureus and coagulase-negative staphylococci. Paulsson M, et al. **FEMS Microbiol Immunol** 1990 May;2(1):55–62

Interaction of retinal glial cells with collagen matrices: implications for pathogenesis of cell-mediated vitreous traction. de Juan E Jr, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(5):494–8

Collagen type I and III occur together in hybrid fibrils in the space of Disse of normal rat liver. Geerts A, et al. **Hepatology** 1990 Aug;12(2):233–41

The integrated value of serum procollagen III peptide over time predicts hepatic hydroxyproline content and stainable collagen in a model of dietary cirrhosis in the rat [see comments] Ruwart MJ, et al. **Hepatology** 1989 Nov; 10(5):801–6 Comment in: Hepatology 1990 May;11(5):904–5.

Ultrastructural localization of extracellular matrix proteins in liver biopsies using ultracryomicrotomy and immuno-gold labelling. Burt AD, et al. **Histopathology** 1990 Jan;16(1):53–8

Basement membrane components in lymphoid follicles: immunohistochemical demonstration and relationship to the follicular dendritic cell network. Gloghini A, et al. **Hum Pathol** 1989 Oct;20(10):1001–7

Pitfalls in the diagnosis of collagenous colitis: experience with 75 cases from a registry of collagenous colitis at the Johns Hopkins Hospital. Lazenby AJ, et al. **Hum Pathol** 1990 Sep;21(9):905–10

In vitro interaction of bleomycin with collagen—equilibrium dialysis technique. Ramesh DV, et al. **Indian J Biochem Biophys** 1989 Jun;26(3):196–8

Molecular characteristics of soluble arthritic collagens. Reddy GK, et al. **Indian J Biochem Biophys** 1990 Feb; 27(1):33–8

Binding of collagens to an enterotoxigenic strain of Escherichia coli. Visai L, et al. **Infect Immun** 1990 Feb; 58(2):449–55

Laminin, type IV collagen, and fibronectin in normal and cryptorchid human testes. An immunohistochemical study. Santamaria L, et al. **Int J Androl** 1990 Apr;13(2):135–46

Collagen cross-linking. Ricard-Blum S, et al. **Int J Biochem** 1989;21(11):1185–9 (16 ref.)

Modulation of type-IV collagenase activity and invasive behavior of metastatic human melanoma (A2058) cells in vitro by monoclonal antibodies to type-IV collagenase. Höyhtyä M, et al. **Int J Cancer** 1990 Aug 15;46(2):282–6

Correlation between collagenolytic activity and grade of histological differentiation in colorectal tumors. van der Stappen JW, et al. **Int J Cancer** 1990 Jun 15;45(6):1071–8

Type I and IV collagen and fibrinogen binding to Aeromonas species isolated from various infections. Ascencio F, et al. **Int J Med Microbiol** 1990 Jun;273(2):186–94

Adaptation of tendon collagen to exercise. Michna H, et al. **Int Orthop** 1989;13(3):161–5

Type IV and interstitial collagenolytic activities in normal and malignant trophoblast cells are specifically regulated by the extracellular matrix. Emonard H, et al. **Invasion Metastasis** 1990;10(3):170–7

Retinoids and butyrate modulate fibroblast growth and contraction of collagen matrices. Kim RY, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1183–6

RPE-mediated collagen gel contraction. Inhibition by colchicine and stimulation by TGF-beta. Raymond MC, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1079–86

Intraepidermal type VII collagen. Evidence for abnormal intracytoplasmic processing of a major basement membrane protein in rare patients with dominant and possibly localized recessive forms of dystrophic epidermolysis bullosa. Fine JD, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):188–95

Appearance of laminin, heparan sulphate proteoglycan and collagen type IV during initial stages of vascularisation of the neuroepithelium of the mouse embryo. Herken R, et al. **J Anat** 1990 Apr;169:189–95

The collagen content of the gubernaculum during testicular descent in the pig fetus. Heyns CF, et al. **J Anat** 1989 Dec; 167:161–6

Proteoglycan:collagen interactions and subfibrillar structure in collagen fibrils. Implications in the development and ageing of connective tissues. Scott JE. **J Anat** 1990 Apr; 169:23–35

Binding to collagen by Yersinia enterocolitica and Yersinia pseudotuberculosis: evidence for yopA-mediated and chromosomally encoded mechanisms. Emödy L, et al. **J Bacteriol** 1989 Dec;171(12):6674–9

Changes in collagen cross-linking in bleomycin-induced pulmonary fibrosis. Reiser KM, et al. **J Biochem Toxicol** 1986 Mar;1(1):83–91

The relationship of the biophysical and biochemical characteristics of type VII collagen to the function of anchoring fibrils. Bächinger HP, et al. **J Biol Chem** 1990 Jun 15;265(17):10095–101

Changes in solubility, non-enzymatic glycation, and fluorescence of collagen in tail tendons from diabetic rats. Brennan M. **J Biol Chem** 1989 Dec 15;264(35):20947–52

Isolation of the von Willebrand factor domain interacting with platelet glycoprotein Ib, heparin, and collagen and characterization of its three distinct functional sites. Mohri H, et al. **J Biol Chem** 1989 Oct 15;264(29):17361–7

Unfolding intermediates in the triple helix to coil transition of bovine type XI collagen and human type V collagens alpha 1(2) alpha 2 and alpha 1 alpha 2 alpha 3. Morris NP, et al. **J Biol Chem** 1990 Jun 15;265(17):10081–7

Transformation of BALB/3T3 cells by simian virus 40 causes a decreased synthesis of a collagen-binding heat-shock protein (hsp47). Nakai A, et al. **J Biol Chem** 1990 Jan 15; 265(2):992–9

Structure elucidation of a senescence cross-link from human extracellular matrix. Implication of pentoses in the aging process. Sell DR, et al. **J Biol Chem** 1989 Dec 25; 264(36):21597–602

The alpha 2 beta 1 integrin cell surface collagen receptor binds to the alpha 1 (I)-CB3 peptide of collagen. Staatz WD, et al. **J Biol Chem** 1990 Mar 25;265(9):4778–81

Differential susceptibility of type X collagen to cleavage by two mammalian interstitial collagenases and 72-kDa type IV collagenase. Welgus HG, et al. **J Biol Chem** 1990 Aug 15;265(23):13521–7

Induction of mineral deposition by primary cultures of chicken growth plate chondrocytes in ascorbate-containing media. Evidence of an association between matrix vesicles and collagen. Wu LN, et al. **J Biol Chem** 1989 Dec 15; 264(35):21346–55

Establishment of a neovascular bed in a collagen-impregnated polyurethane sponge. Lipsky MH, et al. **J Biomed Mater Res** 1989 Dec;23(12):1441–52

In vitro and in vivo studies of heparinized-collageno-elastic tubes. Senatore F, et al. **J Biomed Mater Res** 1990 Jul; 24(7):939–57

Changes with age in the urinary excretion of lysyl- and hydroxylysylpyridinoline, two new markers of bone collagen turnover. Beardsworth LJ, et al. **J Bone Miner Res** 1990 Jul;5(7):671–6

The partial degradation of osteonectin by a bone-derived metalloprotease enhances binding to type I collagen. Tyree B. **J Bone Miner Res** 1989 Dec;4(6):877–83

Isolation of a novel integrin receptor mediating Arg-Gly-Asp-directed cell adhesion to fibronectin and type I collagen from human neuroblastoma cells. Association of a novel beta 1-related subunit with alpha v. Dedhar S, et al. **J Cell Biol** 1990 Jun;110(6):2185–93

Effects of D-threo-PDMP, an inhibitor of glucosylceramide synthetase, on expression of cell surface glycolipid antigen and binding to adhesive proteins by B16 melanoma cells. Inokuchi J, et al. **J Cell Physiol** 1989 Dec;141(3):573–83

Collagen fibrillogenesis in vitro: interaction of types I and V collagen regulates fibril diameter. Birk DE, et al. **J Cell Sci** 1990 Apr;95 (Pt 4):649–57

Laminin interactions with ductal pancreatic adenocarcinoma cells: identification of laminin- and collagen-binding proteins. Mai M, et al. **J Cell Sci** 1990 Jan;95 (Pt 1):65–74

Lipocytes from normal rat liver release a neutral metalloproteinase that degrades basement membrane (type IV) collagen. Arthur MJ, et al. **J Clin Invest** 1989 Oct; 84(4):1076–85

End-stage renal disease and diabetes catalyze the formation of a pentose-derived crosslink from aging human collagen. Sell DR, et al. **J Clin Invest** 1990 Feb;85(2):380–4

Collagen binding, elastase production, and slime production associated with coagulase-negative staphylococci isolated from bovine intramammary infections. Watts JL, et al. **J Clin Microbiol** 1990 Mar;28(3):580–3

Not all spindled-shaped cells embedded in a collagenous stroma are fibroblasts: recognition of the "collagen-associated dendrophage" [letter] Nickoloff BJ, et al. **J Cutan Pathol** 1990 Aug;17(4):252–4

Type VII collagen is a component of cylindroma basement membrane zone. Pfaltz M, et al. **J Cutan Pathol** 1989 Dec; 16(6):388–95

Connective tissue diseases in the skin—from molecules to symptoms. Krieg T, et al. **J Dermatol** 1990 Feb;17(2):67–84 (191 ref.)

The effect of ultrasound on the healing of repaired cockerel tendon: is collagen cross-linkage a factor? Turner SM, et al. **J Hand Surg [Br]** 1989 Nov;14(4):428–33

Immunochemical and immunocytochemical studies of the C-propeptide of type II procollagen in chondrocytes of the growth plate. Lee ER, et al. **J Histochem Cytochem** 1990 May;38(5):659–73

Organization of the cytoskeleton and the focal contacts of bovine aortic endothelial cells cultured on type I and III collagen. Semich R, et al. **J Histochem Cytochem** 1990 Jan; 38(1):59–67

Development of a novel substrate capture immunoassay for

the detection of a neutral metalloproteinase capable of degrading basement membrane (type IV) collagen. Wacher MP, et al. **J Immunol Methods** 1990 Feb 9;126(2):239–45
Marfan syndrome: absence of type I or III collagen structural defects in 25 patients. Harley VR, et al.
J Inherited Metab Dis 1990;13(2):219–26
Collagen metabolism in ultraviolet irradiated hairless mouse skin and its correlation to histochemical observations [letter; comment] **J Invest Dermatol** 1990 Jun;94(6):827–9
Comment on: J Invest Dermatol 1989 Aug;93(2):210–4.
Hemidesmosomes, collagen VII, and intermediate filaments in basal cell carcinoma. Jones JC, et al.
J Invest Dermatol 1989 Nov;93(5):662–71
Intra-epidermal retention of type VII collagen in a patient with recessive dystrophic epidermolysis bullosa. Smith LT, et al. **J Invest Dermatol** 1990 Feb;94(2):261–4
Production of collagen type I by mouse peritoneal macrophages. Vaage J, et al. **J Leukoc Biol** 1990 Sep; 48(3):274–80
Expression of proteolytic activity by cultures of Trichophyton rubrum. Apodaca G, et al.
J Med Vet Mycol 1990;28(2):159–71
Binding properties of the neural cell adhesion molecule to different components of the extracellular matrix. Probstmeier R, et al. **J Neurochem** 1989 Dec;53(6):1794–801
Is there a characteristic dermal involvement in amyotrophic lateral sclerosis? [letter] Mapelli G. **J Neurol Sci** 1990 Feb; 95(2):231–4
Distribution of collagen type IV in brain tumors: an immunohistochemical study. Ogawa K, et al.
J Neurooncol 1989 Nov;7(4):357–66
Purification of antigen B from Taenia solium cysticerci by affinity to mammalian collagen. Laclette JP, et al.
J Parasitol 1990 Apr;76(2):273–5
Wound collagenase activity correlates directly with collagen glycosylation in diabetic rats. Hennessey PJ, et al.
J Pediatr Surg 1990 Jan;25(1):75–8
Studies in fetal wound healing, VI. Second and early third trimester fetal wounds demonstrate rapid collagen deposition without scar formation. Longaker MT, et al.
J Pediatr Surg 1990 Jan;25(1):63–8; discussion 68–9
Collagen types and matrix protein content in human abdominal aortic aneurysms. Rizzo RJ, et al.
J Vasc Surg 1989 Oct;10(4):365–73
The effect of fructose on collagen glycation. Oimomi M, et al. **Kobe J Med Sci** 1989 Aug;35(4):195–200
Another mechanism for the defect in type III collagen accumulation in Ehlers-Danlos syndrome type IV: increased intracellular degradation of the procollagen. Utani A, et al. **Lab Invest** 1990 Aug;63(2):181–8
Pregnancy loss and fathers with Ehlers-Danlos syndrome [letter] Levick K. **Lancet** 1989 Nov 11;2(8672):1151
Crosslinking of extracellular matrix proteins: a preliminary report on a possible mechanism of argon laser welding. Murray LW, et al. **Lasers Surg Med** 1989;9(5):490–6
Localization of collagen in the rat lung: biochemical quantitation of types I and III collagen in small airways, vessels, and parenchyma. Kelley J, et al. **Lung** 1989; 167(5):313–22
Nuclear magnetic resonance relaxometry of the normal heart: relationship between collagen content and relaxation times of the four chambers. Scholz TD, et al.
Magn Reson Imaging 1989 Nov-Dec;7(6):643–8
Immunolocalisation of extracellular matrix macromolecules in the rat spinal cord. Azzi G, et al. **Matrix** 1990 Jan; 9(6):479–85
Identification of the cleavage sites by a hemorrhagic metalloproteinase in type IV collagen. Baramova EN, et al. **Matrix** 1990 May;10(2):91–7
Characteristics of the in vitro interaction of a small proteoglycan (PG II) of bovine tendon with type I collagen. Brown DC, et al. **Matrix** 1990 Jan;9(6):468–78
Metalloproteinases are not involved in the phagocytosis of collagen fibrils by fibroblasts. Everts V, et al. **Matrix** 1989 Aug;9(4):266–76
Diastrophic dysplasia: evidence against a defect of type II collagen. Murray LW, et al. **Matrix** 1990 Jan;9(6):459–67
Increased glycation and pigmentation of collagen in aged and young parabiotic rats and mice. Deyl Z, et al.
Mech Ageing Dev 1990 Jul;55(1):39–47
Correlation between laminin and type IV collagen distribution in breast carcinomas, and estrogen receptors expression, lymph node and vascular involvement. Charpin C, et al. **Med Oncol Tumor Pharmacother** 1990;7(1):43–54
Virulent Escherichia coli strains for chicks bind fibronectin and type II collagen. Gonzalez EA, et al. **Microbios** 1990; 62(251):113–27
Immunoreactivity in malignant mesotheliomas with antibodies to basement membrane components and their receptors. Kallianpur AR, et al. **Mod Pathol** 1990 Jan; 3(1):11–8
Reduction with tetracyclines of excessive collagen degradation in periodontal and other diseases. Golub LM. **N Y State Dent J** 1990 May;56(5):24–6 (12 ref.)
Interactions of oxidized lipids with protein. Part XVI. Interactions of oxidized ethyl linoleate with collagen. Pokorný J, et al. **Nahrung** 1990;34(2):159–69
Collagen metabolism in premature rupture of amniotic membranes. Vadillo-Ortega F, et al. **Obstet Gynecol** 1990 Jan;75(1):84–8
The structure of the normal human glomerular basement membrane. Ultrastructural localization of type IV collagen and laminin. Smith PS, et al. **Pathology** 1989 Oct; 21(4):254–8
Generation of collagenase-resistant collagen by site-directed mutagenesis of murine pro alpha 1(I) collagen gene. Wu H, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5888–92
The effects of copper deficiency on the pyridinium crosslinks of mature collagen in the rat skeleton and cardiovascular system. Farquharson C, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):166–71
Anchorin CII, a collagen-binding chondrocyte surface protein of the calpactin family. Pfäffle M, et al.
Prog Clin Biol Res 1990;349:147–57 (16 ref.)
Development of interstitial lung fibrosis by long-term treatment with collagen breakdown products in rabbits. Gardi C, et al. **Res Commun Chem Pathol Pharmacol** 1990 May;68(2):235–50
Nonenzymatic glycosylation of vitreous proteins in vitro and in the streptozotocin-treated diabetic rat. Shires TK, et al. **Retina** 1990;10(2):153–8
Intracellular degradation of newly synthesized collagen. Bienkowski RS. **Revis Biol Celular** 1989;21:423–43 (72 ref.)
Type IV collagen and laminin in the synovial intimal layer: an immunohistochemical study. Pollock LE, et al.
Rheumatol Int 1990;9(6):277–80
Non-specific cleavage of collagen by proteinases in the presence of sodium dodecyl sulfate. Bleeg HS.
Scand J Dent Res 1990 Jun;98(3):235–41
Cellular sources of collagen and regulation of collagen production in liver. Friedman SL. **Semin Liver Dis** 1990 Feb;10(1):20–9 (94 ref.)
Doubled fourth-day colorectal anastomotic strength with complete retention of intestinal mature wound collagen and accelerated deposition following immediate full enteral nutrition. Greenstein A, et al. **Surg Forum** 1978;29:78–81
Potentiation of colchicine-induced collagenolysis. Labandter H, et al. **Surg Forum** 1978;29:592–4
Evidence for protein oedema, neutrophil influx, and enhanced collagen production in lungs of patients with systemic sclerosis. Harrison NK, et al. **Thorax** 1990 Aug; 45(8):606–10
The interaction of fibronectin (fn) with native, polymeric collagen (collagen fibres): comparison with von Willebrand factor (vWf)-binding by collagen. Cockburn CG, et al.
Thromb Haemost 1989 Jun 30;61(3):378–85
Critical role of the carbohydrate moiety in human von Willebrand factor protein for interactions with type I collagen. Kessler CM, et al. **Thromb Res** 1990 Jan 1; 57(1):59–76
Degradation of metal-labeled collagen implants: ultrastructural and X-ray microanalysis. Anselme K, et al.
Tissue Cell 1990;22(1):81–91
Factor XIII is not involved in human platelet-collagen interaction. Aihara M, et al. **Tohoku J Exp Med** 1989 Sep; 159(1):37–44
Modern aspects of articular cartilage biochemistry. Kuettner KE, et al. **Verh Dtsch Ges Inn Med** 1989;95:436–47 (48 ref.)
Left ventriculotomy of the heart: tissue repair and localization of collagen types I, II, III, IV, V, VI and fibronectin. Kawahara E, et al. **Virchows Arch [A]** 1990; 417(3):229–36
A study by immunofluorescence microscopy of the NC1 domain of collagen type IV in glomerular basement membranes of two patients with hereditary nephritis. Thorner PS, et al. **Virchows Arch [A]** 1990;416(3):205–12
Immunohistochemical and biochemical studies on the collagenous proteins of human osteosarcomas. Ueda Y, et al. **Virchows Arch [B]** 1989;58(1):79–88
[A study of changes in the ratio of collagen types in skin after long-term treatment with topical glucocorticoids] Kuo KW, et al.
Kuo Hsiung I Hsueh Ko Hsueh Tsa Chih 1990 May; 6(5):224–30 (Eng. Abstr.) **(Chi)**
[The development of osteoarthrosis and the role of collagen in the pathophysiology of its development] Adam M, et al. **Acta Chir Orthop Traumatol Cech** 1989 Oct;56(5):377–90 (Eng. Abstr.) **(Cze)**
[Binding affinity of ibuprofen to collagen and other connective tissue components] Menzel EJ, et al.
Arzneimittelforschung 1990 Apr;40(4):481–3 (Eng. Abstr.) **(Ger)**
[Biochemical and molecular biologic aspects of early detection of human arthroses] von der Mark K, et al.
Orthopade 1990 Feb;19(1):2–15 (177 ref.) (Eng. Abstr.) **(Ger)**
[Collagenous colitis] Güller R.
Schweiz Rundsch Med Prax 1990 Jun 26;79(26):841–3 (Eng. Abstr.) **(Ger)**
[Benign prostatic hyperplasia: a stromal disease] Bartsch G, et al. **Urologe [A]** 1989 Nov;28(6):321–8 (34 ref.) (Eng. Abstr.) **(Ger)**
[Immunohistochemical localization of various components of the basal membrane and interstitial collagen in diabetic nephropathy] Nerlich A, et al. **Verh Dtsch Ges Pathol** 1989; 73:133–8 (Eng. Abstr.) **(Ger)**
[Immunohistochemical studies of collagen types I, III and IV distribution and the expression of procollagen III peptide in papillary carcinomas of the thyroid] Katoh R, et al. **Gan No Rinsho** 1990 Aug;36(9):967–72 (Eng. Abstr.) **(Jpn)**
[Peculiar mitral periannular cardiac muscle lesion in rabbits with experimentally-induced mitral regurgitation by vagus stimulation: investigation of a collagen increase and a myosin heavy chain isozyme change] Naito S, et al.
J Cardiol Suppl 1990;23:31–45; discussion 46 (Eng. Abstr.) **(Jpn)**
[New direct assay method of type IV collagenase in tissue homogenate and biochemical role of collagenase against type I, and IV collagens to the invasion of the stomach and lung cancer] Kubochi K.
Nippon Geka Gakkai Zasshi 1990 Feb;91(2):174–83 (Eng. Abstr.) **(Jpn)**
[Renal distribution of collagen types III, IV and V in various glomerular diseases] Inaba S. **Nippon Jinzo Gakkai Shi** 1989 Aug;31(8):839–49 (Eng. Abstr.) **(Jpn)**
[Biochemistry of the lung interstitium] Munakata H, et al.
Nippon Rinsho 1990 Mar;48(3):450–4 **(Jpn)**
[Effect of human recombinant interleukin-1 alpha on glycosaminoglycan and collagen metabolism in cultured human chorionic cells] Katsura M.
Nippon Sanka Fujinka Gakkai Zasshi 1989 Dec; 41(12):1943–50 (Eng. Abstr.) **(Jpn)**
[Metabolism of the connective tissue in generalized scleroderma] Kucharz EJ, et al.
Postepy Hig Med Dosw 1989;43(1):93–102 (73 ref.) (Eng. Abstr.) **(Pol)**
[Stimulation of spreading and aggregation of platelets on immobilized type V collagen: mechanisms depending on Ca2+ and protein kinase C] Leĭtin VL, et al.
Biokhimiia 1989 Sep;54(9):1565–70 (Eng. Abstr.) **(Rus)**
[Interaction of platelets with 125I-labelled collagen type III. The necessity for forming a fibrillary structure] Mazurov AV, et al. **Biokhimiia** 1989 Aug;54(8):1280–9 (Eng. Abstr.) **(Rus)**
[Various characteristics of collagen metabolism in patients with chronic diseases of the liver] Gelvandova NI, et al.
Klin Med (Mosk) 1989 Nov;67(11):59–62 (Eng. Abstr.) **(Rus)**
[The collagenolytic activity of bacteria of the genus Bacillus isolated from different ecological sources] Slabospitskaia AT, et al. **Mikrobiol Zh** 1989 Nov-Dec;51(6):54–6 (Eng. Abstr.) **(Rus)**
[Properties and conditions of formation of the fibronectin-collagen complex in a culture of human embryo fibroblasts] Belkin VM, et al. **Mol Biol (Mosk)** 1989 Sep-Oct;23(5):1364–72 (Eng. Abstr.) **(Rus)**
[Pathogenesis of arthrosis deformans of the knee joint] Pliatsko VV, et al. **Ortop Travmatol Protez** 1990 Mar; (3):45–9 (Eng. Abstr.) **(Rus)**
[The ratio of collagens type I and III in cultures of human fibroblasts with diploid and aberrant chromosome complement] Kukharenko VI, et al. **Vopr Med Khim** 1989 Sep-Oct;35(5):94–6 (Eng. Abstr.) **(Rus)**
[The interrelation of collagen metabolism and fibrosis formation in patients with disseminated processes of the lungs] Kaminskaia GO, et al. **Vrach Delo** 1990 Jan;(1):44–6 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Rapid release of gentamicin from collagen sponge. In vitro comparison with plastic beads. Sørensen TS, et al.
Acta Orthop Scand 1990 Aug;61(4):353–6
Immunohistochemical localization of SPARC (osteonectin) and denatured collagen and their relationship to remodelling in rat dental tissues. Salonen J, et al.
Arch Oral Biol 1990;35(5):337–46

PHARMACOLOGY

Effects of laminin and collagen type I on the morphology and secretion of proteins in human hepatoblastoma and hepatoma cell lines. Tokiwa T, et al.
Acta Med Okayama 1990 Apr;44(2):71–7
Altered response to dacarbazine by murine melanoma cells cultured in type I collagen gel. Furukawa M, et al.
Arch Dermatol Res 1990;282(4):278–9
Cell cycle analysis of human dermal fibroblasts cultured on or in hydrated type I collagen lattices. Kono T, et al.
Arch Dermatol Res 1990;282(4):258–62
Enhanced melanogenesis of murine melanoma cells cultured on or in collagen gel. Kono T, et al.
Arch Dermatol Res 1990;282(4):263–6
Cooperativity between platelet-activating factor and collagen in aggregation of bovine platelets, II. Kojima S, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1292–6
Role of calcium on protein phosphorylation in collagen-stimulated platelets. Effect of a new dihydropyridine derivative. Catalán RE, et al.
Biochem Int 1989 Oct;19(4):919–28
Collagen-induced platelet activation mainly involves the protein kinase C pathway. Karniguian A, et al.
Biochem J 1990 Jun 1;268(2):325–31
Activation of human neutrophils by type I collagen. Requirement of two different sequences. Monboisse JC, et al. **Biochem J** 1990 Sep 1;270(2):459–62
Aggregation and/or oxygenated products of arachidonic acid are not required for collagen-induced deacylation of phosphatidylcholine in human platelets. Piché LA, et al.
Biochem J 1989 Oct 1;263(1):143–8
Stimulation of human platelets by collagen occurs by a Na+/H+ exchanger independent mechanism. Joseph S, et al. **Biochim Biophys Acta** 1990 Aug 13;1054(1):26–32
A role for intracellular histamine in collagen-induced platelet

aggregation. Saxena SP, et al. **Blood** 1990 Jan 15; 75(2):407–14

5-Hydroxytryptamine and arachidonic acid metabolites modulate extensive platelet activation induced by collagen in cats in vivo. De Clerck F, et al. **Br J Pharmacol** 1990 Apr;99(4):631–6

Collagen–mediated dispersion of NBT–II rat bladder carcinoma cells. Tucker GC, et al. **Cancer Res** 1990 Jan 1;50(1):129–37

Effects of substrata on the polarization of bovine endometrial epithelial cells in vitro. Munson L, et al. **Cell Tissue Res** 1990 Jul;261(1):155–61

Effects of collagen matrix on proliferation and differentiation of vascular smooth muscle cells in vitro. Sakata N, et al. **Exp Mol Pathol** 1990 Apr;52(2):179–91

Membrane–associated 41–kDa GTP–binding protein in collagen–induced platelet activation. Walker G, et al. **FASEB J** 1990 Aug;4(11):2925–33

Cooperativity between platelet–activating factor and collagen in aggregation of bovine platelets III. Kojima S, et al. **FEBS Lett** 1990 Jul 16;267(2):226–8

Attempts to standardize platelet aggregation measurements: simplified screening tests. Kirchhof B, et al. **Haemostasis** 1990;20(3):169–80

Effect of retinoic acid on adenosine diphosphate and collagen–induced alterations in enzymes of GSH–linked antioxidant defence system of human blood platelets in vitro. Mukherjee G, et al. **Indian J Exp Biol** 1990 Jun; 28(6):550–2

A longitudinal comparative histometric study of the biocompatibility of three local hemostatic agents. Mattsson T, et al. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):47–50

Inhibition of normal rat kidney cell growth by transforming growth factor–beta is mediated by collagen. Nugent MA, et al. **J Biol Chem** 1989 Oct 25;264(30):18060–7

Characterization of a synthetic peptide from type IV collagen that promotes melanoma cell adhesion, spreading, and motility. Chelberg MK, et al. **J Cell Biol** 1990 Jul; 111(1):261–70

A patient with platelets deficient in glycoprotein VI that lack both collagen–induced aggregation and adhesion. Moroi M, et al. **J Clin Invest** 1989 Nov;84(5):1440–5

Enhanced synthesis of collagenase by human keratinocytes cultured on type I or type IV collagen. Petersen MJ, et al. **J Invest Dermatol** 1990 Mar;94(3):341–6

Type IV collagen and fibronectin enhance human keratinocyte thymidine incorporation and spreading in the absence of soluble growth factors. Woodley DT, et al. **J Invest Dermatol** 1990 Jan;94(1):139–43

Effects on wound healing of tricalcium phosphate–collagen complex implants in periodontal osseous defects in the dog. Sugaya A, et al. **J Periodont Res** 1990 Jan;25(1):60–3

Limited proliferative response to type II collagen in rheumatoid arthritis. Desai BV, et al. **J Rheumatol** 1989 Oct;16(10):1310–4

Albumin–bound docosahexaenoic acid and collagen–induced human platelet reactivity. Gaudette DC, et al. **Lipids** 1990 Mar;25(3):166–9

Modulation of human endometrial stromal cell morphology and cell growth on various types of collagen substrates in vitro. Negami AI, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Mar;42(3):287–8

Deficient collagen–induced activation in the newborn platelet. Israels SJ, et al. **Pediatr Res** 1990 Apr;27(4 Pt 1):337–43

Aggregation to thrombin and collagen of platelets from a Glanzmann thrombasthenic patient lacking glycoproteins IIb and IIIa. McGregor L, et al. **Thromb Haemost** 1989 Nov 24;62(3):962–7

Association of reduced factor VIII with impaired platelet reactivity to adrenalin and collagen after total thyroidectomy. Palareti G, et al. **Thromb Haemost** 1989 Dec 29;62(4):1053–6

Effect of angiotensin II on collagen–induced platelet activation in normotensive subjects. Swartz SL, et al. **Thromb Haemost** 1990 Feb 19;63(1):87–90

Further observations on in–vitro aggregation of rat platelets with different collagens. Evans GO, et al. **Thromb Res** 1990 Jan 15;57(2):301–3

Effect of albumin–bound DHA on phosphoinositide phosphorylation in collagen stimulated human platelets. Gaudette DC, et al. **Thromb Res** 1990 May 15;58(4):435–44

A new index for collagen induced platelet aggregation. Kakishita E, et al. **Thromb Res** 1989 Nov 1;56(3):465–75

Elucidation of a role of plasma albumin during collagen–induced aggregation of bovine platelets. Sekiya F, et al. **Thromb Res** 1989 Nov 1;56(3):407–15

PHYSIOLOGY

Changes in the connective tissue composition of the submucosal layer of colonic anastomosis. An immunohistologic study in rats. Brasken P, et al. **Acta Chir Scand** 1989 Aug;155(8):413–9

Contraction phenomenon of type I collagen gel by melanoma cells. Kono T, et al. **Acta Derm Venereol (Stockh)** 1990; 70(3):185–8

Correlation between ageing and collagen gel contractility of human fibroblasts. Kono T, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):241–4

Fibronectin, laminin, and collagen types I, III, IV and V in the healing rat colon anastomosis [see comments] Brasken P, et al. **Ann Chir Gynaecol** 1990;79(2):65–71 Comment in: Ann Chir Gynaecol 1990;79(2):63–4.

The structure and function of type VII collagen. Burgeson RE, et al. **Ann N Y Acad Sci** 1990;580:32–43 (27 ref.)

In vitro mineralization of a three–dimensional collagen matrix by human dental pulp cells in the presence of chondroitin sulphate. Bouvier M, et al. **Arch Oral Biol** 1990;35(4):301–9

Collagen fibrils in vitro grow from pointed tips in the C– to N–terminal direction. Kadler KE, et al. **Biochem J** 1990 Jun 1;268(2):339–43

Platelet adhesion to collagen. Factors affecting Mg2(+)–dependent and bivalent–cation–independent adhesion. Zijenah LS, et al. **Biochem J** 1990 Jun 1; 268(2):481–6

The possible role of collagen fibrils and collagen–phosphoprotein complexes in the calcification of bone in vitro and in vivo. Glimcher MJ. **Biomaterials** 1990 Jul;11:7–10 (37 ref.)

Alterations in collagen cross–linking impair myocardial contractility in the mouse heart. Capasso JM, et al. **Circ Res** 1989 Dec;65(6):1657–64

Association of the C–propeptide of type II collagen with mineralization of embryonic chick long bone and sternal development. Kujawa MJ, et al. **Connect Tissue Res** 1989; 23(2–3):179–99

Extracellular matrix involvement in epithelial branching morphogenesis. Spooner BS, et al. **Dev Biol (N Y 1985)** 1986;3:225–60 (80 ref.)

Collagen fibril bundles: a branching assembly unit in tendon morphogenesis. Birk DE, et al. **Development** 1989 Nov; 107(3):437–43

Type IV collagen in developing human lung: a comparison between normal and hypoplastic fetal lungs. Haidar A, et al. **Early Hum Dev** 1990 Mar;21(3):175–80

Adhesion, growth and cytoskeletal characteristics of 8701–BC breast carcinoma cells cultured in the presence of type V collagen. Luparello C, et al. **Eur J Cancer** 1990 Mar;26(3):231–40

Enzymatic collagen degradation in the pregnant guinea pig cervix during physiological maturation of the cervix and after local application of prostaglandins. Rath W, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep;32(3):199–204

Persistent spreading of ligament cells on osteopontin/bone sialoprotein–I or collagen enhances tolerance to heat shock. Sauk JJ, et al. **Exp Cell Res** 1990 May;188(1):105–10

Cohesive strength of corneal lamellae. Maurice DM, et al. **Exp Eye Res** 1990 Jan;50(1):59–63

Extracellular matrix. Labat–Robert J, et al. **FEBS Lett** 1990 Aug 1;268(2):386–93 (94 ref.)

Basement membrane components are potent promoters of rat intestinal epithelial cell differentiation in vitro. Hahn U, et al. **Gastroenterology** 1990 Feb;98(2):322–35

Contraction of collagen by human fibroblasts and keratinocytes. Souren JM, et al. **In Vitro Cell Dev Biol** 1989 Nov;25(11):1039–45

A thermodynamically consistent constitutive equation for the elastic force–length relation of soft biological materials. Maes M, et al. **J Biomech** 1989;22(11–12):1203–8

Ethyl–3,4–dihydroxybenzoate inhibits myoblast differentiation: evidence for an essential role of collagen. Nandan D, et al. **J Cell Biol** 1990 May;110(5):1673–9

Characterization of a maternal type VI collagen in Xenopus embryos suggests a role for collagen in gastrulation. Otte AP, et al. **J Cell Biol** 1990 Jul;111(1):271–8

Temporal relationships of F–actin bundle formation, collagen and fibronectin matrix assembly, and fibronectin receptor expression to wound contraction. Welch MP, et al. **J Cell Biol** 1990 Jan;110(1):133–45

Fibroblasts from wounds of different stages of repair vary in their ability to contract a collagen gel in response to growth factors. Finesmith TH, et al. **J Cell Physiol** 1990 Jul;144(1):99–107

Serum enhancement of human endothelial cell attachment to and spreading on collagens I and IV does not require serum fibronectin or vitronectin. Norris WD, et al. **J Cell Sci** 1990 Feb;95 (Pt 2):255–62

Mechanism of endotoxin inhibition of human gingival fibroblast attachment to type I collagen. Pitaru S, et al. **J Dent Res** 1990 Sep;69(9):1602–6

Proliferative potential of murine melanoma cells cultured in or on collagen gel. Furukawa M, et al. **J Dermatol** 1990 May;17(5):297–302

Modulation of platelet responses to collagen by Clq receptors. Peerschke EI, et al. **J Immunol** 1990 Jan 1; 144(1):221–5

Collagenous colitis as a cause of chronic diarrhea [see comments] Bott SJ. **J S C Med Assoc** 1990 Feb;86(2):85–7 Comment in: J S C Med Assoc 1990 Feb;86(2):115–6.

Biochemical, biomechanical, and physical changes in the skin in an experimental animal model of therapeutic tissue expansion. Beauchene JG, et al. **J Surg Res** 1989 Dec; 47(6):507–14

Type I and type IV collagen promote adherence and spreading of human type II pneumocytes in vitro. Papadopoulos T, et al. **Lab Invest** 1990 May;62(5):562–9

Stress in collagen fibrils of articular cartilage calculated from their measured orientations. Aspden RM, et al. **Matrix** 1990 Jan;9(6):486–8

Cells transmit spatial information by orienting collagen fibers. Klebe RJ, et al. **Matrix** 1990 Jan;9(6):451–8

Type VI collagen in healing rabbit corneal wounds. Murata Y, et al. **Ophthalmic Res** 1990;22(3):144–51

Collagen, the circulation and positioning of lymphocytes: a unifying clue? De Sousa M, et al. **Scand J Immunol** 1990 Mar;31(3):249–56 (49 ref.)

Albumin in plasma potentiates platelet aggregation induced by collagen—a study with an albumin deficient rat. Sekiya F, et al. **Thromb Res** 1990 Jun 15;58(6):657–62

[Significance of thrombocyte–collagen interaction in arterial laceration] Scola E, et al. **Unfallchirurg** 1990 Feb;93(2):45–8 (22 ref.) (Eng. Abstr.) **(Ger)**

[Changes in collagen connective tissue and fibroblasts in aging] Kulozik M, et al. **Z Hautkr** 1989 Nov 15; 64(11):1003–4, 1007–9 (25 ref.) (Eng. Abstr.) **(Ger)**

[Adrenal regeneration hypertension—effects of vascular connective tissue protein and plasma corticosterone on hypertension in rats with adrenal regeneration hypertension] Nakada T, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Jan;81(1):49–53 (Eng. Abstr.) **(Jpn)**

[Cell attachment factors and its medical use] Nagamine K, et al. **Nippon Rinsho** 1989 Dec;47(12):2831–8 (20 ref.) **(Jpn)**

[Interaction of thrombocytes with immobilized collagen in the vascular wall (a model for step–by–step study of formation of parietal thrombi)] Leitin VL, et al. **Kardiologiia** 1989 Sep;29(9):74–7 (Eng. Abstr.) **(Rus)**

[The biological role of the structural–deformable properties of the cartilage and of the synovial fluid in the reduction of intra– articular friction] Kupchinov BI, et al. **Ortop Travmatol Protez** 1989 Oct;(10):7–11 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Insolubilization of apatite–collagen composites by UV irradiation. Okazaki M, et al. **Biomaterials** 1989 Oct; 10(8):564–8

The growth of human fibroblasts and A431 epidermoid carcinoma cells on gamma–irradiated human amnion collagen substrata. Liu B, et al. **Experientia** 1989 Oct 15; 45(10):1002–6

The effect of gamma–irradiation on collagen molecules, isolated alpha–chains, and crosalinked native fibers. Cheung DT, et al. **J Biomed Mater Res** 1990 May;24(5):581–9

Effect of irradiation on collagen solutions in relation to biomedical applications. Pietrucha K. **Polim Med** 1989; 19(1–2):3–18

SECRETION

Effect of trifluoperazine and colchicine on smooth muscle cellular proliferative and secretory activity induced by hypercholesterolemic medium in vitro. Mehta UM, et al. **Biochem Int** 1990;21(1):107–16

Coalignment of microtubules, cytokeratin intermediate filaments, and collagen fibrils in a collagen–secreting cell system. McBeath E, et al. **Eur J Cell Biol** 1989 Dec; 50(2):510–21

Vectorial secretion of extracellular matrix proteins, matrix–degrading proteinases, and tissue inhibitor of metalloproteinases by endothelial cells. Unemori EN, et al. **J Biol Chem** 1990 Jan 5;265(1):445–51

The collagens and glycosaminoglycans of the extracellular matrices secreted by bone marrow stromal cells cultured in vivo in diffusion chambers. Ashhurst DE, et al. **J Orthop Res** 1990 Sep;8(5):741–9

C5b–8 and C5b–9 modulate the collagen release of human glomerular epithelial cells. Torbohm I, et al. **Kidney Int** 1990 Apr;37(4):1098–104

THERAPEUTIC USE

The effect of collagen shields on epithelial wound healing in rabbits. Frantz JM, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):524–8

Injectable autogenous corium: technique development in the rat model. Andersen BP, et al. **Ann Plast Surg** 1990 Jul; 25(1):32–5; discussion 35–6

Collagen shield heparin delivery for prevention of postoperative fibrin. Murray TG, et al. **Arch Ophthalmol** 1990 Jan;108(1):104–6

Experimental tympanic membrane closure with collagen film. Patterson ME. **Arch Otolaryngol** 1967 Nov;86(5):486–9

Collagen sealed Dacron. Implantation for congenital and acquired cardiac defects. McGrath LB, et al. **ASAIO Trans** 1989 Oct–Dec;35(4):816–9

Prospective trial of ossein–hydroxyapatite compound in surgically induced postmenopausal women. Stěpán JJ, et al. **Bone** 1989;10(3):179–85

Porcine collagen corneal shield treatment of persistent epithelial defects following penetrating keratoplasty. Groden LR, et al. **CLAO J** 1990 Apr–Jun;16(2):95–7

Soluble collagen disks for the treatment of dry eye syndrome. Shaker GJ, et al. **CLAO J** 1989 Oct–Dec;15(4):298–304

Endoscopic treatment of vesicoureteric reflux with bovine collagen. Lipsky H. **Eur Urol** 1990;18(1):52–5

Craniofacial osseous restoration with osteoinductive proteins in a collagenous delivery system. Moore JC, et al. **Int J Oral Maxillofac Surg** 1990 Jun;19(3):172–6

The effect of collagen shields on rabbit corneal reepithelialization after chemical debridement. Robin JB, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1294–300

Effect of exogenous collagen I on tissue repair in the rabbit ear and regeneration of the rat liver. Whyte K. **Ir J Med Sci** 1989 Nov;158(11):278–9

Reduction in blood loss in total hip arthroplasty using topical

Colgen. Wittmann FW, et al. **J Arthroplasty** 1989 Sep; 4(3):253–6

Collagen corneal shields enhance penetration of topical prednisolone acetate. Sawusch MR, et al. **J Cataract Refract Surg** 1989 Nov;15(6):625–8

Partial dermal regeneration is induced by biodegradable collagen–glycosaminoglycan grafts. Murphy GF, et al. **Lab Invest** 1990 Mar;62(3):305–13

The use of injectable collagen to correct velopharyngeal insufficiency. Remacle M, et al. **Laryngoscope** 1990 Mar; 100(3):269–74

Corneal spatula for sterile insertion of collagen corneal shield. Hawk TP, et al. **Ophthalmic Surg** 1990 Mar;21(3):162

ACP and Surgicel in bone hemostasis. A comparative experimental and histologic study. Mattsson T, et al. **Swed Dent J** 1990;14(2):57–62

[Behavior on de-epidermized human skin of unspecified reconstituted collagen tissue] Chamson A, et al. **Ann Dermatol Venereol** 1990;117(5):359–62 (Eng. Abstr.) **(Fre)**

[Viscous human collagen IV. Physical properties and experimental tolerance] Charleux J, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):308–11 (Eng. Abstr.) **(Fre)**

[The use of kombutek 2 in treating patients with radiation damages to the skin] Selezneva LG, et al. **Med Radiol (Mosk)** 1990 Jul;35(7):33–4 (Eng. Abstr.) **(Rus)**

[The microsurgical treatment of penetrating wounds of the cornea with the use of collagenous materials] Lebekhov PI, et al. **Oftalmol Zh** 1989;(7):409–11 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Collagen fiber arrangement of the human shoulder joint capsule—an anatomical study. Steiner D, et al. **Acta Anat (Basel)** 1989;136(4):300–2

Collagen fibrillogenesis in situ. Discontinuous segmental assembly in extracellular compartments. Birk DE, et al. **Ann N Y Acad Sci** 1990;580:176–94

Type I and type III collagen interactions during fibrillogenesis. Fleischmajer R, et al. **Ann N Y Acad Sci** 1990;580:161–75

Heterotypic collagen fibrils and stabilizing collagens. Controlling elements in corneal morphogenesis? Linsenmayer TF, et al. **Ann N Y Acad Sci** 1990;580:143–60 (39 ref.)

Matrix macromolecules: spatial relationships in two dimensions. Trelstad RL. **Ann N Y Acad Sci** 1990; 580:391–420

Assembly of basement membranes. Yurchenco PD. **Ann N Y Acad Sci** 1990;580:195–213 (61 ref.)

Collagen fiber alignment in the human preauricular dermis before and after rhytidectomy—a scanning electron microscopy study. Govrin-Yehudain J, et al. **Ann Plast Surg** 1986 Mar;16(3):200–3

The quantitative study of the orientation of collagen in compact bone slices. Boyde A, et al. **Bone** 1990;11(1):35–9

Ultrastructural changes of collagen and elastin in human gingiva during orthodontic tooth movement. Franchi M, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(3):139–43

Collagen and proteoglycan in a sea urchin ligament with mutable mechanical properties. Trotter JA, et al. **Cell Tissue Res** 1989 Dec;258(3):527–39

Three-dimensional organization of the collagen fibrils in the rat sciatic nerve as revealed by transmission- and scanning electron microscopy. Ushiki T, et al. **Cell Tissue Res** 1990 Apr;260(1):175–84

The three-dimensional spatial relationship between the collagen fibrils and the inorganic calcium-phosphate crystals of pickerel and herring fish bone. Lee DD, et al. **Connect Tissue Res** 1989;21(1–4):247–57

Immunoelectron microscopy of type X collagen: supramolecular forms within embryonic chick cartilage. Schmid TM, et al. **Dev Biol** 1990 Mar;138(1):53–62

Deposition and ultrastructural organization of collagen and proteoglycans in the extracellular matrix of gel-cultured fibroblasts. Schlumberger W, et al. **Eur J Cell Biol** 1989 Oct;50(1):100–10

Comparison of two methods for evaluation of the length of collagen molecules. Miterová L, et al. **Folia Morphol (Praha)** 1989;37(2):228–35

Cell-mediated contraction of collagen lattices in serum-free medium: effect of serum and nonserum factors. Anderson SN, et al. **In Vitro Cell Dev Biol** 1990 Jan;26(1):61–6

Immunoelectron microscopic studies of type X collagen in endochondral ossification. Poole AR, et al. **J Cell Biol** 1989 Nov;109(5):2547–54

Characterization of the collagen in the hexagonal lattice of Descemet's membrane: its relation to type VIII collagen. Sawada H, et al. **J Cell Biol** 1990 Jan;110(1):219–27

Immunoelectron microscopic localization of the core protein of decorin near the d and e bands of tendon collagen fibrils by use of monoclonal antibodies. Pringle GA, et al. **J Histochem Cytochem** 1990 Oct;38(10):1405–11

Pleomorphism in type I collagen fibrils produced by persistence of the procollagen N-propeptide. Hulmes DJ, et al. **J Mol Biol** 1989 Nov 20;210(2):337–45

Ultrastructure of the predentinal-dentinal border zone of human teeth exposed to basic chromium (III) sulfate. A method for contrasting of collagen fibrils. Koçkapan C. **J Nihon Univ Sch Dent** 1989 Dec;31(4):570–6

Collagen in submucous fibrosis: an electron-microscopic study. van Wyk CW, et al. **J Oral Pathol Med** 1990 Apr; 19(4):182–7

Initial attachment of principal fibers to the root dentin surface in rat molars. Yamamoto T, et al. **J Periodont Res** 1990 Mar;25(2):113–9

Anchoring fibrils and type VII collagen in human breast. Eyden BP, et al. **J Submicrosc Cytol Pathol** 1990 Jul; 22(3):477–9

The head cartilage of cephalopods. II. Ultrastructure of isolated native collagen fibrils and of polymeric aggregates obtained in vitro: comparison with the cartilage of mammals. Bairati A, et al. **J Ultrastruct Mol Struct Res** 1989 Aug;102(2):132–8

Proteoglycan: collagen interactions in dermatosparactic skin and tendon. An electron histochemical study using cupromeronic blue in a critical electrolyte concentration method. Scott JE, et al. **Matrix** 1990 Jan;9(6):437–42

A scanning electron microscopic study of rabbit ligaments under strain. Yahia L, et al. **Matrix** 1990 Mar;10(1):58–64

Collagen dysplasia in idiopathic carpal tunnel syndrome. Stransky G, et al. **Pathol Res Pract** 1989 Nov;185(5):795–8

Three-dimensional ordered distribution of crystals in turkey tendon collagen fibers. Traub W, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9822–6

Structure of the extracellular matrix in normal and fibrotic liver: collagens and glycoproteins. Schuppan D. **Semin Liver Dis** 1990 Feb;10(1):1–10 (84 ref.)

A connective tissue defect in two rabbits similar to the Ehlers–Danlos syndrome. Harvey RG, et al. **Vet Rec** 1990 Feb 10;126(6):130–2

[Electron microscopy studies of the collagen fiber structure of the human tympanic membrane in an adhesive process] Hartwein J, et al. **Laryngorhinootologie** 1990 Jun; 69(6):333–6 (Eng. Abstr.) **(Ger)**

[Ultrastructural analysis of collagen fibers in the conductive and working myocardium of the sinoatrial region of the human heart] Pavlovich ER. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):48–52 (Eng. Abstr.) **(Rus)**

URINE

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography. James IT, et al. **J Chromatogr** 1990 Jan 26;525(1):43–57

COLLAGEN DISEASES

see related

ANTIBODIES, ANTINUCLEAR

[Reflections on non-differentiated collagenosis or non-differentiated autoimmune syndrome] Szegedi G, et al. **Orv Hetil** 1990 Aug 12;131(32):1735–9 (Eng. Abstr.) **(Hun)**

[33d meeting of the Japan Rheumatism Association. Tokyo, 25–27 May 1989. Abstracts] **Ryumachi** 1989 Dec; 29(6):397–650 **(Jpn)**

BLOOD

Elevated plasma levels of alpha 2-plasmin inhibitor-plasmin complex in patients with rheumatic diseases. Possible role of fibrinolytic mechanism in vasculitis. Kawakami M, et al. **Arthritis Rheum** 1989 Nov;32(11):1427–33

Prolyl hydroxylase and procollagen III peptide levels in the sera from patients with collagen diseases and psoriasis. Sasaki T, et al. **J Dermatol** 1989 Jun;16(3):207–11

Elevation of a tumor associated antigen CA 19-9 levels in patients with rheumatic diseases. Shimomura C, et al. **J Rheumatol** 1989 Nov;16(11):1410–5

Depressed plasma fibrinolytic activity in a group of patients with connective tissue diseases. Munkvad S, et al. **Scand J Rheumatol** 1989;18(5):277–82

[HTLV-I in patients from Barcelona with connective tissue diseases, neurologic demyelinating diseases and lymphoproliferative syndromes] Soriano V, et al. **Med Clin (Barc)** 1990 May 19;94(19):730–2 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Non-steroidal anti-inflammatory drugs and the bowel [letter] **Lancet** 1989 Oct 28;2(8670):1047–8

CLASSIFICATION

[Working classification and nomenclature of rheumatic diseases] Nasonova VA, et al. **Revmatologiia (Moskva)** 1989 Apr–Jun;(2):3–10 **(Rus)**

COMPLICATIONS

Thibierge-Weissenbach syndrome. Rozhold O, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;121:323–30

Pulmonary manifestations of the collagen vascular diseases. Wiedemann HP, et al. **Clin Chest Med** 1989 Dec; 10(4):677–722 (318 ref.)

Pulmonary disorders in the collagen vascular diseases [editorial] Askin FB. **Hum Pathol** 1990 May;21(5):465–6

Collagen vascular disease and irradiation [letter] Matthews RH. **Int J Radiat Oncol Biol Phys** 1989 Nov;17(5):1123–4

Collagenous colitis, enteropathic arthritis, and autoimmune diseases: results of a patient survey. Roubenoff R, et al. **J Rheumatol** 1989 Sep;16(9):1229–32

Intraarticular lipoma in Stickler syndrome. Chambers HG, et al. **Orthopedics** 1990 May;13(5):565–7

[Incidence of goiter and thyroiditis in chronic inflammatory rheumatism] Herrmann F, et al. **Z Gesamte Inn Med** 1990 Jan 15;45(2):52–5 (Eng. Abstr.) **(Ger)**

[Microangiopathy in collagen diseases] Hashimoto H. **Kokyu To Junkan** 1989 Jul;37(7):741–7 **(Jpn)**

[An autopsy case of a patient with myasthenia gravis who showed various symptoms of collagen diseases and complicated with malignant thymoma] Funabashi H, et al. **Ryumachi** 1989 Jun;29(3):185–91 (Eng. Abstr.) **(Jpn)**

[Denopamine responsive pulmonary hypertension in a patient with collagen disease] Yamada H, et al. **Ryumachi** 1989 Oct;29(5):371–6, discussion 376–8 (Eng. Abstr.) **(Jpn)**

[Cardiological symptoms in collagen diseases] Wójtowicz B. **Pol Arch Med Wewn** 1987 Mar;77(3):112–5 (18 ref.) **(Pol)**

DIAGNOSIS

Scleroderma overlap syndromes. Bennett RM. **Rheum Dis Clin North Am** 1990 Feb;16(1):185–98 (94 ref.)

[Lung involvement in collagen diseases] Meier-Sydow J. **Pneumologie** 1990 Feb;44 Suppl 1:127–30 (16 ref.) (Eng. Abstr.) **(Ger)**

[Immunoserological area—with special reference to the current topics on antinuclear antibodies] Moteki S, et al. **Rinsho Byori** 1990 Jul;38(7):765–72 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

[Corticosteroids in rheumatology] Ott H. **Rev Med Suisse Romande** 1990 Apr;110(4):327–9 **(Fre)**

[The effect of collagen-normalizing therapy on the incidence and severity of anesthetic and postoperative complications in children with connective tissue syndromes] Rudakov SS, et al. **Anesteziol Reanimatol** 1990 May–Jun;(3):16–20 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Phagocyte enzymes in bronchoalveolar lavage from patients with pulmonary sarcoidosis and collagen vascular disorders [published erratum appears in Eur Respir J 1990 May;3(5):609] Sibille Y, et al. **Eur Respir J** 1990 Mar; 3(3):249–56

GENETICS

Inherited disorders of collagen gene structure and expression. Byers PH. **Am J Med Genet** 1989 Sep;34(1):72–80 (92 ref.)

IMMUNOLOGY

Maternal autoantibodies and fetal disease. Gross KR, et al. **Clin Exp Rheumatol** 1989 Nov–Dec;7(6):651–7

Severe immune thrombocytopenia and the development of skin infarctions in a patient with an overlap syndrome. Dessein PH, et al. **J Rheumatol** 1989 Nov;16(11):1494–6

IgG and IgM anti-endothelial cell antibodies in patients with collagen-vascular disorders. Quadros NP, et al. **Rheumatol Int** 1990;10(3):113–9

[Methods for determining antinuclear antibodies and their clinical significance] Aeschlimann A, et al. **Schweiz Med Wochenschr** 1989 Dec 2;119(48):1701–12 (43 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

[Fibrin-fibrinogen degradation products in connective tissue diseases] Shchepotin BM, et al. **Revmatologiia (Moskva)** 1989 Apr–Jun;(2):64–8 (48 ref.) **(Rus)**

PATHOLOGY

Collagenous colitis. Bogomoletz WV. **Curr Top Pathol** 1990; 81:219–27 (37 ref.)

Marfan syndrome: absence of type I or III collagen structural defects in 25 patients. Harley VR, et al. **J Inherited Metab Dis** 1990;13(2):219–26

[Collagen colitis. Reflections apropos of 40 patients] Pierrugues R, et al. **Gastroenterol Clin Biol** 1989 Oct; 13(10):811–5 (Eng. Abstr.) **(Fre)**

[Collagenous colitis. Studies on the differentiation and incidence of the syndrome] Möhrmann C, et al. **Med Klin** 1989 Sep 15;84(9):434–8 (Eng. Abstr.) **(Ger)**

URINE

[A study of microproteinuria in patients with collagen disease] Ishii K, et al. **Nippon Jinzo Gakkai Shi** 1989 Aug; 31(8):827–37 (Eng. Abstr.) **(Jpn)**

VETERINARY

[New, Arthroluxyl? (letter)] Poll PH. **Tijdschr Diergeneeskd** 1989 Oct 15;114(20):1066–7 **(Dut)**

COLLAGEN TYPE I see **COLLAGEN**

COLLAGEN TYPE II see **COLLAGEN**

COLLAGEN TYPE III see **COLLAGEN**

COLLAGEN TYPE IV see **COLLAGEN**

COLLAGEN TYPE V see **COLLAGEN**

COLLAGEN TYPE VI see COLLAGEN

COLLAGEN TYPE VII see COLLAGEN

COLLAGEN TYPE VIII see COLLAGEN

COLLAGEN TYPE IX see COLLAGEN

COLLAGEN TYPE X see COLLAGEN

COLLAGENASE see CLOSTRIDIOPEPTIDASE A

COLLAPSE THERAPY

[The morbidity risk for breast cancer in persons treated by collapse therapy for tuberculosis] Tekkel MIu. **Probl Tuberk** 1989;(12):61–3 **(Rus)**

[Surgical atelectasis of the lung after trans-sternal trans-pericardial occlusion of the main bronchus] Naumov VN, et al. **Vestn Khir** 1989 May;142(5):46–7 **(Rus)**

ADVERSE EFFECTS

Treatment of late complications of plombage by simultaneous removal of plomb and decortication. Moran A, et al. **Thorax** 1989 Dec;44(12):1051–2

[Oleothorax 40 years later] Haberkorn U, et al. **Pneumologie** 1989 Dec;43(12):715–8 (Eng. Abstr.) **(Ger)**

METHODS

[Therapeutic choices in spontaneous pneumothorax] Kutushev FKh, et al. **Vestn Khir** 1990 Jan;144(1):32–4 (Eng. Abstr.) **(Rus)**

COLLATERAL CIRCULATION

Retrograde flow detection in the radial artery as a means to assess palmar collateral circulation in newborn infants. Hack WW, et al. **Acta Anaesthesiol Belg** 1990;41(2):145–50

Balloon test occlusion of the internal carotid artery with monitoring of compressed spectral arrays (CSAs) of electroencephalogram. Morioka T, et al. **Acta Neurochir (Wien)** 1989;101(1–2):29–34

Myocardial stunning in dogs: preconditioning effect and influence of coronary collateral flow. Cohen MV, et al. **Am Heart J** 1990 Aug;120(2):282–91

Coronary collaterals in acute myocardial infarction without underlying coronary stenosis. Edwards RR, et al. **Am Heart J** 1990 Aug;120(2):424–7

Effects of heparin treatment on collateral development and regional myocardial function in acute myocardial infarction. Ejiri M, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):248–53

Significance of collateral circulation in reversible left ventricular asynergy by nitroglycerin in patients with relatively recent myocardial infarction. Fujita M, et al. **Am Heart J** 1990 Sep;120(3):521–8

Detection of human collateral circulation by vasodilation-thallium-201 tomography. Nienaber CA, et al. **Am J Cardiol** 1990 Apr 15;65(15):991–8

Intraoperative demonstration of coronary collateral flow using myocardial contrast two-dimensional echocardiography. Spotnitz WD, et al. **Am J Cardiol** 1990 May 15;65(18):1259–61

Beta-adrenergic receptors on canine coronary collateral vessels: characterization and function. Feldman RD, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1634–9

Studies of collateral perfusion to canine middle cerebral artery territory. Loftus CM, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 2):H560–6

Intramural coronary collateral flow in dogs. Scheel KW, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H679–82

Functional anatomical site of intramural collaterals in dogs. Scheel KW, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H706–11

The Finapres and collateral circulation in the hand [letter; comment] Armstrong P, et al. **Anaesthesia** 1990 May; 45(5):419 Comment on: Anaesthesia 1989 Jul;44(7):594–5.

Stenosis in a coronary collateral artery—a case report. Van den Heuvel P, et al. **Angiology** 1990 Jun;41(6):498–501

Microvascular and collateral adaptation in swine hearts following progressive coronary artery stenosis. Görge G, et al. **Basic Res Cardiol** 1989 Sep–Oct;84(5):524–35

Protective effect of collateral vessels during coronary angioplasty. Norell MS, et al. **Br Heart J** 1989 Oct; 62(4):241–5

Radiological definition of a new model of portal diversion in the rat. Jaffe V, et al. **Br J Radiol** 1990 Aug; 63(752):615–9

Magnetic resonance imaging evaluation of spontaneous portosystemic collaterals. Rafal RB, et al. **Cardiovasc Intervent Radiol** 1990 Feb–Mar;13(1):40–3

Collateral bronchopulmonary circulation after spontaneous recanalisation of pulmonary thromboemboli in the dog. Jandik J, et al. **Cardiovasc Res** 1990 Jun;24(6):485–92

Inability of chronic chemical sympathectomy to induce coronary collateral growth or development: studies in the rat heart in vivo. Maxwell MP, et al. **Cardiovasc Res** 1989 Sep;23(9):820–4

Spontaneous reversal of flow through jeopardized collateral vessels during non-Q wave myocardial infarction. Klutstein MW, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):103–7

Systemic to pulmonary venous shunting in superior vena cava obstruction. Unusual myocardial and thyroid visualization. Gale B, et al. **Clin Nucl Med** 1990 Apr;15(4):246–50

Shunt between right subclavian vein and the left heart in superior vena cava obstruction due to lung cancer. Taki J, et al. **Clin Nucl Med** 1990 Apr;15(4):251–3

Portal hypertension and spleno-renal shunting without splenomegaly [letter; comment] Charig MJ, et al. **Clin Radiol** 1990 Mar;41(3):217–8 Comment on: Clin Radiol 1989 Jul;40(4):431–3.

Portal venous collateral drainage in IVC obstruction. Hayward SJ. **Clin Radiol** 1990 Mar;41(3):206–8

The effect of coronary collateral recruitment on ventricular recovery after brief coronary occlusion in dogs and pigs. Hanan SA, et al. **Curr Surg** 1990 Jan–Feb;47(1):23–5

Per rectal thallium scintigraphy for the assessment of portosystemic shunt: an experimental study in the bile duct ligated rats. Van Maldergem L, et al. **Eur J Nucl Med** 1989;15(9):587–90

Collateral circulation to the diagonal artery from the infundibular coronary artery in obstructive coronary arterial disease. Sharma S, et al. **Int J Cardiol** 1989 Oct; 25(1):134–6

Thoracic collateral venous channels: normal and pathologic CT findings. Trigaux JP, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):769–73

Transhepatic portosystemic collateral pathway via an accessory left gastric vein. Ohtomo K, et al. **Radiat Med** 1989 Jul–Aug;7(4):176–7

CT-angiographic correlation of collateral venous pathways in isolated splenic vein occlusion: new observations. Marn CS, et al. **Radiology** 1990 May;175(2):375–80

Portosystemic collaterals running through the medial segment of the liver connecting with the paraumbilical vein in portal hypertension. Itai Y, et al. **ROFO** 1990 Mar; 152(3):357–8

Collateral development after carotid artery occlusion in Fischer 344 rats. Coyle P, et al. **Stroke** 1990 Feb; 21(2):316–21

Collateral pathways in portal hypertension. Moll R, et al. **Surg Radiol Anat** 1990;12(2):127–33

Collateral circulatory development in skeletal muscle. Ying D, et al. **Surg Radiol Anat** 1989;11(3):227–31

[Photoplethysmography evaluation of collateral blood flow before puncture of the dorsalis pedis artery] Bund M, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):309–11 (Eng. Abstr.) **(Ger)**

[The behavior of collaterals during percutaneous transluminal angioplasty] Zocholl G, et al. **ROFO** 1990 May; 152(5):559–64 (Eng. Abstr.) **(Ger)**

[Preoperative therapeutic embolization for massive hemoptysis from bronchial collaterals in tetralogy of Fallot—a case report successfully treated by total correction] Suzuki Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar;38(3):472–6 (Eng. Abstr.) **(Jpn)**

[Study of complications after endoscopic sclerotherapy for esophageal varices—particularly 3 cases caused by the increase of collateral blood flow] Kasai Y, et al. **Nippon Rinsho** 1990 Apr;48(4):825–9 **(Jpn)**

DRUG EFFECTS

Effects of persantin and nitroglycerin on myocardial blood flow during temporary coronary occlusions in dogs. Linder E, et al. **Angiologica** 1967;4(5):225–55

Effects of dipyridamole on collateral flow and regional myocardial function in conscious dogs with newly developed collaterals. Fujita M, et al. **Basic Res Cardiol** 1990 Mar–Apr;85(2):142–52

Effect of atrial natriuretic peptide on coronary collateral blood flow. Foreman B, et al. **Circ Res** 1989 Dec; 65(6):1671–8

Collateral circulation in skeletal muscles: effect of pentoxifylline and torbafylline. Hudlicka O, et al. **J Med** 1990;21(3–4):165–80

Hyperosmotic mannitol and collateral blood flow to ischemic myocardium. Vlahakes GJ, et al. **J Surg Res** 1989 Nov; 47(5):438–46

Effect of prostaglandin E1 upon collateral vessels in peripheral occlusive arterial disease. Rudofsky G, et al. **Prog Clin Biol Res** 1989;301:407–9

Regional variability in the response of collateral resistance to histamine in the dog: effects of cyclooxygenase inhibition. Ludwig MS, et al. **Respir Physiol** 1989 Dec; 78(3):297–308

[The effect of intravenous nifedipine administration on coronary occlusion during coronary angioplasty on ischemia tolerance and collateral function] Ischinger T, et al. **Z Kardiol** 1990 Mar;79(3):166–75 (Eng. Abstr.) **(Ger)**

[Role of the collateral coronary circulation in the mechanism of action of verapamil and diltiazem on the ischemic myocardium] Kirsanova GIu, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):33–7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Role of previous angina pectoris and collateral flow to preserve left ventricular function in the presence or absence of myocardial infarction in isolated total occlusion of the left anterior descending coronary artery. Juillière Y, et al. **Am J Cardiol** 1990 Feb 1;65(5):277–81

Microvascular occlusions promote coronary collateral growth. Chilian WM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1103–11

Coronary collateral regression in conscious dogs. Fujita M, et al. **Angiology** 1990 Aug;41(8):621–30

Improvement of ST segment depression by gradual recruitment of collateral circulation. Tanaka K, et al. **Cardiology** 1990;77(1):17–24

Training in dogs with normal coronary arteries: lack of effect on collateral development. Cohen MV. **Cardiovasc Res** 1990 Feb;24(2):121–8

Importance of myocardial ischaemia for recruitment of coronary collateral circulation in dogs. Yamanishi K, et al. **Cardiovasc Res** 1990 Apr;24(4):271–7

Endothelial modulation of the coronary vasculature in vessels perfused via mature collaterals. Sellke FW, et al. **Circulation** 1990 Jun;81(6):1938–47

Effects of haemorrhage and volume expansion on portal-systemic collateral vascular resistance in conscious portal hypertensive rats. Koshy A, et al. **Clin Sci** 1990 Feb; 78(2):193–7

Propranolol decreases portal pressure without changing portocollateral resistance in cirrhotic rats. Pizcueta MP, et al. **Hepatology** 1989 Dec;10(6):953–7

Importance of myocardial ischemia for coronary collateral development in conscious dogs. Fujita M, et al. **Int J Cardiol** 1990 May;27(2):179–86

A prospective angiographic study of the coronary collateral circulation in coronary arterial disease. Vyssoulis G, et al. **Int J Cardiol** 1990 May;27(2):187–91

Molecular biologic concepts of coronary anastomoses. Schaper W, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):513–8 (31 ref.)

Evaluation of the palmar circulation by pulse oximetry [letter; comment] Striebel HW, et al. **J Clin Monit** 1989 Oct; 5(4):287 Comment on: J Clin Monit 1989 Jan;5(1):1–3.

Noninvasive assessment of coronary collaterals in man by PET perfusion imaging [see comments] Demer LL, et al. **J Nucl Med** 1990 Mar;31(3):259–70 Comment in: J Nucl Med 1990 Mar;31(3):271–3.

Noninvasive quantification of regional myocardial blood flow: assessment of myocardial perfusion reserve and collateral circulation [comment] Schelbert HR, et al. **J Nucl Med** 1990 Mar;31(3):271–3 Comment on: J Nucl Med 1990 Mar;31(3):255–8. Comment on: J Nucl Med 1990 Mar;31(3):259–70.

The clinical role of the cerebral collateral circulation in carotid occlusion. Norris JW, et al. **J Vasc Surg** 1990 Aug; 12(2):113–8

Right carotid artery ligation in neonates: classification of collateral flow with color Doppler imaging. Mitchell DG, et al. **Radiology** 1990 Apr;175(1):117–23

Esophageal varices evaluated by endoscopic ultrasonography: observation of collateral circulation during non-shunting operations. Nakamura H, et al. **Surg Endosc** 1990;4(2):69–74; discussion 75

The occipital-vertebral anastomosis as a collateral pathway: hemodynamic patterns—case report. Miyachi S, et al. **Surg Neurol** 1989 Nov;32(5):350–5 (25 ref.)

Distribution of arterial lesions and collateral pathways in the pulmonary hypertension of congenital heart disease: a computer aided reconstruction study. Yaginuma G, et al. **Thorax** 1990 Aug;45(8):586–90

[Neovascularization of the myocutaneous rectus abdominis island flap in the rat] Tilgner A, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(5):302–7 (Eng. Abstr.) **(Ger)**

[Protective function of collaterals in percutaneous transluminal coronary angioplasty] Reifart N, et al. **Z Kardiol** 1990 Jun;79(6):446–9 (Eng. Abstr.) **(Ger)**

[Changes in hepatic circulation after hepatic arterial embolization—an analysis of factors affecting the development of collaterals] Kodama T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jul 25; 49(7):892–8 (Eng. Abstr.) **(Jpn)**

[Indices of left ventricular diastole in patients with unstable angina and angiographically documented collateral circulation] Witkowski A. **Kardiol Pol** 1989;32(1):19–26 (Eng. Abstr.) **(Pol)**

[Characteristics of the reconstruction of collateral pathways after surgical decompression of the portal system] Galvoronskii IV. **Arkh Anat Gistol Embriol** 1989 Oct; 97(10):39–47 (Eng. Abstr.) **(Rus)**

[The effect of mud and magnetic therapy in the early periods after vascular injury on the recovery of the collateral blood flow pathways (experimental research)] Akhmedov NK, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):55–7 **(Rus)**

COLLECTIVE BARGAINING

State nurses' associations, not trade unions, should represent nurses at the bargaining table [editorial] Palmer PN. **AORN J** 1990 Apr;51(4):941–2

Collective negotiation and antitrust: Part 2. What can physicians and medical societies do? **J Miss State Med Assoc** 1990 Jan;31(1):17–8

LEGISLATION & JURISPRUDENCE

Rule making and the National Labor Relations Board: implications for the health care industry. Gullett CR, et al. **Health Care Manage Rev** 1990 Spring;15(2):61–5

Union organizing will be divisive and costly. Stickler KB. **Hospitals** 1990 Jul 5;64(13):68–70

New NLRB rules on collective bargaining units in the health care industry. Milot LP. **J Leg Med** 1989 Dec;10(4):739–54 (106 ref.)
From the Office of the General Counsel. Collective negotiation and physician unions. Ile ML. **JAMA** 1989 Nov 3;262(17):2444
Separate bargaining units in the health care industry: crisis for professional nurses in the USA. Popp PW. **Med Law** 1989;8(1):83–100

TRENDS

Union election activity in the hospital industry. Scott C, et al. **Health Care Manage Rev** 1989 Fall;14(4):21–8

COLLEGE ADMISSION TEST see under **EDUCATIONAL MEASUREMENT**

COLLES' FRACTURE see under **RADIUS FRACTURES**

COLLICULUS, INFERIOR see **INFERIOR COLLICULUS**

COLLICULUS, SUPERIOR see **SUPERIOR COLLICULUS**

COLLODION

Ultrastructural characterization of otospongiotic lesions in re-embedded celloidin sections. McKenna M, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun;109(5–6):397–405
Histochemical localization of cysteine-rich proteins by tissue printing on nitrocellulose. Pont-Lezica RF, et al. **Anal Biochem** 1989 Nov 1;182(2):334–7
A new western blotting variant. Hutchins J. **Biotechniques** 1989 Mar;7(3):248–51
Parameters affecting hybridization of nucleic acids blotted onto nylon or nitrocellulose membranes. Twomey TA, et al. **Biotechniques** 1990 May;8(5):478–82
Affinity blotting: polyvinyldifluoride (PVDF) is superior to nitrocellulose. Callaghan S, et al. **Clin Chem** 1990 Jul; 36(7):1377
Important parameters in semi-dry electrophoretic transfer. Jacobson G, et al. **Electrophoresis** 1990 Jan;11(1):46–52
Rapid detection of proteins by enzyme-linked immunofiltration assay after transfer onto nitrocellulose membranes. Pinon JM, et al. **Electrophoresis** 1990 Jan; 11(1):41–5
Subcutaneous immunization of rabbits with nitrocellulose paper strips impregnated with microgram quantities of protein. Coghlan LG, et al. **J Immunol Methods** 1990 May 8;129(1):135–8
Glutaraldehyde fixation of the primary antibody-antigen complex on nitrocellulose paper increases the overall sensitivity of immunoblot assay. Ikegaki N, et al. **J Immunol Methods** 1989 Nov 30;124(2):205–10
A nitrocellulose-enzyme immunoassay method for the detection of hepatitis A virus. Nadala EC Jr, et al. **J Virol Methods** 1990 May;28(2):155–63

METABOLISM

[Collodion baby. A report of a new case] Ruiz de Larrea Pérez MC, et al. **An Esp Pediatr** 1990 Mar;32(3):259–61 **(Spa)**

COLLOIDES see **ACINETOBACTER**

COLLOIDS

Activation of protein kinase C by short chain phospholipid micelles. Walker JM, et al. **Adv Exp Med Biol** 1989; 255:29–36
Analysis of colloidal gold probes by isoelectric focusing in agarose gels. Elliott E, et al. **Anal Biochem** 1990 Apr; 186(1):53–9
Fluorescence detection of enzymatically formed hydrogen peroxide in aqueous solution and in reversed micelles. Sanchez Ferrer A, et al. **Anal Biochem** 1990 May 15; 187(1):129–32
Surface-enhanced Raman analysis of sulfa drugs on colloidal silver dispersion. Sutherland WS, et al. **Anal Chem** 1990 Apr 1;62(7):689–93
Blood clearance of radiolabeled gold colloid by the turkey mononuclear phagocytic system. McEntee MF, et al. **Avian Dis** 1990 Apr–Jun;34(2):393–7
Antigen–antibody binding in reverse micelles: interaction of monoclonal antibodies with a myelin basic protein peptide. Groome NP, et al. **Biochem Int** 1990;21(1):1–7
The effect of substrate partitioning on the kinetics of enzymes acting in reverse micelles. Bru R, et al. **Biochem J** 1990 Jun 15;268(3):679–84
Temperature dependence of the vesicle-micelle transition of egg phosphatidylcholine and octyl glucoside. da Graça Miguel M, et al. **Biochemistry** 1989 Oct 31;28(22):8921–8
Characterization of phospholipid transfer between mixed phospholipid–bile salt micelles. Fullington DA, et al. **Biochemistry** 1990 Jan 30;29(4):879–86
Effect of micelle diameter on tryptophan dynamics in an amphipathic helical peptide in phosphatidylcholine. McLean LR, et al. **Biochemistry** 1989 Oct 17; 28(21):8403–10
Interactions of myelin basic protein with mixed dodecylphosphocholine/palmitoyllysophosphatidic acid micelles. Mendz GL, et al. **Biochemistry** 1990 Mar 6; 29(9):2304–11
Hydrophobic interaction of lysophospholipids and bile salts at submicellar concentrations. Shoemaker DG, et al. **Biochemistry** 1990 Jun 19;29(24):5837–42
Purification of octyl beta-D-glucopyranoside and re-estimation of its micellar size. Lorber B, et al. **Biochim Biophys Acta** 1990 Apr 13;1023(2):254–65
Miscibility of octyl glucoside-phosphatidylcholine micellar solutions. Partition of the nicotinic acetylcholine receptor into the surfactant-rich phase. Schürholz T, et al. **Biochim Biophys Acta** 1989 Nov 27;986(2):225–33
The bacteriology of chronic venous ulcers treated with occlusive hydrocolloid dressings. Gilchrist B, et al. **Br J Dermatol** 1989 Sep;121(3):337–44
Phospholipid-based reverse micelles. Walde P, et al. **Chem Phys Lipids** 1990 Mar;53(4):265–88 (133 ref.)
Protein-decorated micelle structure of sodium-dodecyl-sulfate—protein complexes as determined by neutron scattering. Ibel K, et al. **Eur J Biochem** 1990 Jun 20;190(2):311–8
Kinetic theory of enzymatic reactions in reversed micellar systems. Application of the pseudophase approach for partitioning substrates. Khmelnitsky YL, et al. **Eur J Biochem** 1990 May 31;190(1):155–9
The behavior of proteases in lecithin reverse micelles. Peng QQ, et al. **Eur J Biochem** 1990 Mar 10;188(2):471–80
Enzyme kinetics in reversed micelles. 3. Behaviour of 20 beta-hydroxysteroid dehydrogenase. Tyrakowska B, et al. **Eur J Biochem** 1990 Jan 12;187(1):81–8
Enzyme kinetics in reversed micelles. 2. Behaviour of enoate reductase. Verhaert RM, et al. **Eur J Biochem** 1990 Jan 12;187(1):73–9
Description of enzyme kinetics in reversed micelles. 1. Theory. Verhaert RM, et al. **Eur J Biochem** 1990 Jan 12; 187(1):59–72
Protein transfer from an aqueous phase into reversed micelles. The effect of protein size and charge distribution. Wolbert RB, et al. **Eur J Biochem** 1989 Oct 1;184(3):627–33
Purging of T-lymphocytes with magnetic affinity colloid. Yau JC, et al. **Exp Hematol** 1990 Mar;18(3):219–22
The effects of a hydrocolloid dressing on bacterial growth and the healing process of leg ulcers. Annoni F, et al. **Int Angiol** 1989 Oct–Dec;8(4):224–8
Dimensional stability of reversible hydrocolloid impressions immersed in selected disinfectant solutions. Merchant VA, et al. **J Am Dent Assoc** 1989 Oct;119(4):533–5
Kinetic analysis of yeast phosphatidate phosphatase toward Triton X-100/phosphatidate mixed micelles. Lin YP, et al. **J Biol Chem** 1990 Jan 5;265(1):166–70
Applications of freeze-fracture replication to problems in materials and colloid science. Zasadzinski JA, et al. **J Electron Microsc Tech** 1989 Dec;13(4):309–34 (147 ref.)
Increase of plasma nonesterified fatty acid concentration and decrease of albumin binding affinity after intravenous injection of glycocholate-lecithin mixed micelles. Guentert TW, et al. **J Lab Clin Med** 1990 Jul;116(1):66–75
Use of 1H-NMR to determine the distribution of lecithin between the micellar and vesicular phases in model bile. Groen AK, et al. **J Lipid Res** 1990 Jul;31(7):1315–21
Subunit structure of casein micelles from small-angle neutron-scattering. Stothart PH. **J Mol Biol** 1989 Aug 20; 208(4):635–8
Effect of structural variations of non-ionic surfactants on micellar properties and solubilization: surfactants with semi-polar hydrophobes. Attwood D, et al. **J Pharm Pharmacol** 1989 Sep;41(9):585–9
The effect of powder/water ratio of irreversible hydrocolloid on the bond strength of irreversible hydrocolloid and agar combinations. Lewinstein I, et al. **J Prosthet Dent** 1989 Oct;62(4):412–6
Preliminary results from disinfection of irreversible hydrocolloid impressions. Look JO, et al. **J Prosthet Dent** 1990 Jun;63(6):701–7
Occlusal accuracy of casts made and articulated differently. Peregrina A, et al. **J Prosthet Dent** 1990 Apr;63(4):422–5
Linear distortion and compatibility of an antimicrobial irreversible hydrocolloid impression material and improved dental stones. Sevedge SR, et al. **J Prosthet Dent** 1989 Nov; 62(5):612–5
The effect of dust-suppressant additives on the physical properties of an irreversible hydrocolloid. Veres E, et al. **J Prosthet Dent** 1990 Jan;63(1):90–4
Preliminary observations on clotting under three hydrocolloid dressings. Mulder GD, et al. **J R Soc Med** 1989 Dec;82(12):739–40
Organic and inorganic components in estuarine colloids: implications for sorption and transport of pollutants. Sigleo AC, et al. **Rev Environ Contam Toxicol** 1990;112:123–47 (84 ref.)
Factors affecting efficiency of colloidal gold staining: pH-dependent stability of protein-gold conjugates. Park K. **Scanning Microsc Suppl** 1989;3:15–24; discussion 24–5
Studies on bio-antioxidants—micellar effects on the reduction of nitroxides by vitamin C. Liu YC, et al. **Sci China [B]** 1989 Aug;32(8):937–47
[Interconnection between activity and conformational mobility of alpha-chymotrypsin in reverse micelle systems] Kliachko NL, et al. **Biokhimiia** 1989 Jul;54(7):1224–30 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

A randomized comparison of poly-hema and hydrocolloid dressings for treatment of pressure sores [letter] Brod M, et al. **Arch Dermatol** 1990 Jul;126(7):969–70

ADVERSE EFFECTS

Adverse effects on diabetic foot ulcers of highly adhesive hydrocolloid occlusive dressing [letter] Lithner F. **Diabetes Care** 1990 Jul;13(7):814–5

ANALYSIS

Occurrence of colloid-containing follicles and ciliated cysts in the hypophysial pars tuberalis from guinea pigs of various ages. Kameda Y. **Am J Anat** 1990 Jun;188(2):185–98
Effect of colloidal soil components on the adsorption of mevinphos. Sánchez-Camazano M, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):106–13
On the origin of colloid droplets in thyroid follicle cells. Seljelid R. **Exp Cell Res** 1966 Mar;41(3):688–91
New method for the preparation of cyanoacrylic nanoparticles with improved colloidal properties. Lenaerts V, et al. **J Pharm Sci** 1989 Dec;78(12):1051–2
[Increase in the number of colloidal droplets in the hypothalamus of Natrix maura caused by dehydration] Fernández-Llebrez P, et al. **Rev Esp Fisiol** 1989 Dec; 45(4):385–9 (Eng. Abstr.) **(Spa)**

DIAGNOSTIC USE

Radiolabeled colloids and macromolecules in the lymphatic system. Strand SE, et al. **Crit Rev Ther Drug Carrier Syst** 1989;6(3):211–38 (136 ref.)

METABOLISM

[Mathematical model of radioactive colloid transport in the evaluation of the functional state of the reticuloendothelial system] Bondareva IB, et al. **Med Radiol (Mosk)** 1990 Apr; 35(4):52–5 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Microencapsulation of human diploid fibroblasts in cationic polyacrylates. Mallabone CL, et al. **Biomaterials** 1989 Aug; 10(6):380–6
An in vitro study of the antibacterial and antifungal properties of an irreversible hydrocollcid impression material impregnated with disinfectant. Tobias RS, et al. **J Prosthet Dent** 1989 Nov;62(5):601–5

STANDARDS

Autocorrelation spectroscopy for particle sizing and stability tests of radiolabelled colloids. Bergqvist L, et al. **Eur J Nucl Med** 1989;15(10):641–5

THERAPEUTIC USE

A randomized trial of two occlusive dressings in the treatment of leg ulcers. Brandrup F, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):231–5
Care of pressure sores: a controlled study of the use of a hydrocolloid dressing compared with wet saline gauze compresses. Alm A, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;149:1–10
Treatment of chronic leg ulcers with a hydrocolloid dressing. Gamborg Nielsen P, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;152:1–12
Design of a new hydrocolloid dressing. Nangia A, et al. **Burns** 1989 Dec;15(6):385–8
Management of radiation-induced moist skin desquamation using hydrocolloid dressing. Margolin SG, et al. **Cancer Nurs** 1990 Apr;13(2):71–80
Comparison of a hydrocolloid dressing and silver sulfadiazine cream in the outpatient management of second-degree burns. Wyatt D, et al. **J Trauma** 1990 Jul;30(7):857–65
Effects of crystalloid and colloid infusions on intracranial pressure [letter; comment] Todd M, et al. **Neurosurgery** 1990 Mar;26(3):546–8 Comment on: Neurosurgery 1989 Aug;25(2):173–8; discussion 178–9.
Tips of the trade #26. Treatment of amputation residual limb ulcers with a hydroactive dressing and continued weight bearing. Pinzur MS, et al. **Orthop Rev** 1990 Jul;19(7):638–40
[Clinical significance of duoderm in venous ulcer and clot dissolution in experimental deep wounds] Hutchinson J, et al. **Phlebologie** 1990 Jan–Mar;43(1):107–9 **(Fre)**
[The use of DuoDerm in the surgical wound after surgical treatment of pilonidal fistulae using the open method] Estienne G, et al. **Minerva Chir** 1989 Oct 15;44(19):2089–92 (Eng. Abstr.) **(Ita)**

COLOBOMA

Nager anomaly with severe facial involvement, microcephaly, and mental retardation. Palomeque A, et al. **Am J Med Genet** 1990 Jul;36(3):356–7
Alobar holoprosencephaly, diabetes insipidus and coloboma without craniofacial abnormalities: a case report. Van Gool S, et al. **Eur J Pediatr** 1990 Jun;149(9):621–2
Rieger anomaly and uveal coloboma with associated anomalies. Third observation of a rare oculo-palato-osseous syndrome—the Abruzzo-Erikson syndrome. Verloes A, et al. **Ophthalmic Paediatr Genet** 1990 Mar;11(1):41–7

COMPLICATIONS

Congenital macular coloboma in Down syndrome. Yamaguchi K, et al. **Ann Ophthalmol** 1990 Jun;22(6):222–3

Microphthalmos with colobomatous orbital cyst: clinical, histological, immunohistological, and electronmicroscopic findings. Lieb W, et al. **Br J Ophthalmol** 1990 Jan; 74(1):59–62

The eye in the CHARGE association. Russell-Eggitt IM, et al. **Br J Ophthalmol** 1990 Jul;74(7):421–6

Bilateral macular colobomas in Leber's congenital amaurosis. Murayama K, et al. **Doc Ophthalmol** 1989 Jun;72(2):181–8

Bilateral optic disc colobomas with orbital cysts and hypoplastic optic nerves and chiasm. Slamovits TL, et al. **J Clin Neuro Ophthalmol** 1989 Sep;9(3):172–7

The Morning Glory syndrome associated with sphenoethmoidal encephalocele. Hope-Ross M, et al. **Ophthalmic Paediatr Genet** 1990 Jun;11(2):147–53 (18 ref.)

Glioneuroma associated with colobomatous dysplasia of the anterior uvea and retina. A case simulating medulloepithelioma. Kivelä T, et al. **Ophthalmology** 1989 Dec;96(12):1799–808

[Optic disk and choroidal coloboma] Gotsis S, et al. **J Fr Ophtalmol** 1989;12(10):683–5 (Eng. Abstr.) (Fre)

[The CHARGE association] Allouche C, et al. **Pediatrie** 1989;44(5):391–5 (12 ref.) (Eng. Abstr.) (Fre)

DIAGNOSIS

Coloboma: evaluation with real-time sonography. Munk PL. **AJR Am J Roentgenol** 1990 Feb;154(2):391–2

Retinochoroidal coloboma: varieties of clinical presentations. Steahly LP. **Ann Ophthalmol** 1990 Jan;22(1):9–14

Macular coloboma. Primo SA. **J Am Optom Assoc** 1990 May; 61(5):373–7

Colobomas of the optic area. Giuffrè G. **Metab Pediatr Syst Ophthalmol** 1989;12(4):100–2

GENETICS

Re-evaluation of new X-linked syndrome for evidence of CHARGE syndrome or association. Abruzzo MA, et al. **Am J Med Genet** 1989 Nov;34(3):397–400

A hereditary bisatellite-dicentric supernumerary chromosome in a case of cat-eye syndrome. Lüleci G, et al. **Hereditas** 1989;111(1):7–10

Cat eye syndrome associated with aganglionosis of the small and large intestine. Ward J, et al. **J Med Genet** 1989 Oct; 26(10):647–8

Dominant macular colobomata. Satorre J, et al. **J Pediatr Ophthalmol Strabismus** 1990 May-Jun; 27(3):148–52

Trisomy 4q with morning glory disc anomaly. Nucci P, et al. **Ophthalmic Paediatr Genet** 1990 Jun;11(2):143–5

[An analysis of 193 cases of congenital intraocular colobomas] Lu BX. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):357–9 (Eng. Abstr.) (Chi)

[Macular coloboma and alternating diffuse chorio-retinal dysplasia] Lisch K. **Fortschr Ophthalmol** 1989;86(5):469–71 (Eng. Abstr.) (Ger)

[The interaction of the coloboma and aphakia mutant genes in mice] Koniukhov BV, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov-Dec;(6):805–12 (Eng. Abstr.) (Rus)

PATHOLOGY

[Morning glory syndrome] Haut J, et al. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):373–4 (Fre)

[Morning Glory syndrome] Langlois J, et al. **Bull Soc Ophtalmol Fr** 1989 Nov;89(11):1229–30, 1233 (Fre)

[An unusual polymalformation syndrome: "CHARGE association" with unilateral "morning glory syndrome"] Risse JF, et al. **Ophtalmologie** 1989 Jun-Aug;3(3):196–8 (Eng. Abstr.) (Fre)

SURGERY

The oblique facial cleft: a 20-year follow-up. Boo-Chai K. **Br J Plast Surg** 1990 May;43(3):355–8

Abortive cryptophthalmos: a case report and a review of cryptophthalmos. Walton WT, et al. **J Pediatr Ophthalmol Strabismus** 1990 May-Jun; 27(3):129–32 (20 ref.)

[A method of closed iridoplasty in transparent crystalline lens] Kariagin VF. **Vestn Oftalmol** 1990 Mar-Apr; 106(2):11–4 (Eng. Abstr.) (Rus)

THERAPY

[Optic nerve pits: clinical and therapeutic review of 21 cases] Montenegro M, et al. **J Fr Ophtalmol** 1989;12(6-7):411–9 (30 ref.) (Eng. Abstr.) (Fre)

COLOBUS see under **CERCOPITHECIDAE**

COLON

see related COLOSTOMY

Evaluation of rapid colon preparation with Golytely. Chen CF, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Jul;44(1):45–56

Determining the minimal interval between cleansing water enema and double-contrast barium enema examination. Lee SH, et al. **Clin Radiol** 1990 May;41(5):331–2

Pediatric bowel evacuation with a polyethylene glycol and iso-osmolar electrolyte solution. Goodale EP, et al. **DICP** 1989 Dec;23(12):1008–9

Intraoperative cleansing of the impacted colon using an endotracheal tube. Shimotsuma M, et al. **Dis Colon Rectum** 1990 Mar;33(3):241–2

Comparison of three colon cleansing methods: evaluation of a randomized clinical trial with 300 ambulatory patients. Hangartner PJ, et al. **Endoscopy** 1989 Nov;21(6):272–5

Preparation of the bowel before elective surgery using a polyethylene glycol solution at home and in hospital compared with conventional preparation using magnesium sulphate. Huddy SP, et al. **J R Coll Surg Edinb** 1990 Feb; 35(1):16–20

[Evaluation of rapid colon preparation by oral intake of dulcolax for colorectal surgery] Liou TY, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Aug;44(2):103–8 (Eng. Abstr.) (Chi)

[Comparative evaluation of a new colon preparation method prior to a double-contrast barium enema: toward discontinuation of the cleansing enema] Mahieu PH. **J Belge Radiol** 1989 Dec;72(6):475–9 (Eng. Abstr.) (Fre)

[Value of a new simple mechanical large intestine preparation in comparison with PEG lavage] Hölbling N, et al. **Z Gastroenterol** 1990 Feb;28(2):97–100 (Eng. Abstr.) (Ger)

[Heterotopy of colonic mucous membrane in the navel skin of a 1.5 year old child] Rejmanowski T, et al. **Pediatr Pol** 1989 Mar;64(3):187–8 (Pol)

[Free intra-abdominal body] Abdulzhavadov IM. **Klin Med (Mosk)** 1989 Sep;67(9):110–1 (Rus)

[Foreign bodies of the retroperitoneal space and its organs] Zhukov MD, et al. **Vestn Khir** 1989 Nov;143(11):59 (Rus)

ABNORMALITIES

Dolichocolon: an incidental finding on gallium scintigraphy. Liu RS, et al. **Clin Nucl Med** 1990 May;15(5):356

Suprahepatic interposition of colon (Chilaiditi syndrome) and congenital hemihypertrophy. An unusual association. Singh H, et al. **Clin Pediatr (Phila)** 1989 Nov;28(11):541–2

Autonomic innervation of the intestine from a baby with megacystis microcolon intestinal hypoperistalsis syndrome: II. Electrophysiological study. Kubota M, et al. **J Pediatr Surg** 1989 Dec;24(12):1267–70

Autonomic innervation of the intestine from a baby with megacystis microcolon intestinal hypoperistalsis syndrome: I. Immunohistochemical study. Taguchi T, et al. **J Pediatr Surg** 1989 Dec;24(12):1264–6

A complex case of jejunoileocolic atresias. Weiss RG, et al. **J Pediatr Surg** 1990 May;25(5):560–1

Association of imperforate anus with short colon: a report of eight cases. Wu YJ, et al. **J Pediatr Surg** 1990 Feb; 25(2):282–4 (9 ref.)

Colonic atresia: current results of treatment. Davenport M, et al. **J R Coll Surg Edinb** 1990 Feb;35(1):25–8

Vascular dysplasia of arteries in neurocristopathies: a lesson for neurofibromatosis. Lassmann G. **Neurofibromatosis** 1988;1(5-6):281–93

[Chilaiditi's syndrome as a surgical problem] Galdarski R, et al. **Khirurgiia (Sofiia)** 1989;42(5):94–5 (Bul)

[Colonic atresia. Apropos of 2 type I cases treated by surgical enlargement] Ugassi M, et al. **Chir Pediatr** 1990;31(1):5–8 (Eng. Abstr.) (Fre)

[Intestinal duplications in adulthood as a rare cause of acute abdomen] Zuber B, et al. **Zentralbl Chir** 1989; 114(20):1363–6 (Ger)

[Mesenteric venous hypertension in an adolescent with common ileocolic mesentery] Barbano PR, et al. **Minerva Chir** 1989 Oct 31;44(20):2197–201 (Eng. Abstr.) (Ita)

ANALYSIS

Trypsine-like esteroproteases, kinin and kininases in submandibular gland, colon and pulmonary lavage fluid of mouse model for human cystic fibrosis (CF). Catanzaro OL, et al. **Adv Exp Med Biol** 1989;247B:639–42

Specific receptors for 1,25-dihydroxyvitamin D3 (1,25-DR) and human colorectal carcinogenesis. Lointier P, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1921–4

Calbindin D28k is essentially located in the colonic part of the toad intestine. Parmentier M. **Biol Cell** 1990;68(1):43–9

Polyamines in colorectal cancer. Evaluation of polyamine concentrations in the colon tissue, serum, and urine of 50 patients with colorectal cancer. Löser C, et al. **Cancer** 1990 Feb 15;65(4):958–66

Intracellular free amino acid patterns in duodenal and colonic mucosa. Ollenschläger G, et al. **Clin Chem** 1990 Feb; 36(2):378–81

Increased colonic mucosal angiotensin I and II concentrations in Crohn's colitis. Jaszewski R, et al. **Gastroenterology** 1990 Jun;98(6):1543–8

Short-chain fatty acids in the colon [letter; comment] Lawson MJ. **Gastroenterology** 1990 Jun;98(6):1727–8 Comment on: Gastroenterology 1989 Nov;97(5):1090–6.

Expression of two types of receptor for insulinlike growth factors in human colonic epithelium. Rouyer-Fessard C, et al. **Gastroenterology** 1990 Mar;98(3):703–7

ABO blood type predicts the cytolocalization of anti-P-glycoprotein monoclonal antibody reactivity in human colon and ureter. Weinstein RS, et al. **Hum Pathol** 1990 Sep;21(9):949–58

Effect of dietary fat composition on rat colon plasma membranes and fecal lipids. Awad AB, et al. **J Nutr** 1989 Oct;119(10):1376–82 (36 ref.)

Multiple types of voltage-dependent Ca channels in mammalian intestinal smooth muscle cells. Yoshino M, et al. **Pflugers Arch** 1989 Aug;414(4):401–9

ANATOMY & HISTOLOGY

Silicone-foam molding of the canine ileocolonic junctional zone. Kelley ML Jr, et al. **Am J Dig Dis** 1967 Aug; 12(8):813–22

Normal histology of the colon. Levine DS, et al. **Am J Surg Pathol** 1989 Nov;13(11):966–84 (128 ref.)

The three-dimensional microstructure of intramural lymphatics in the canine large intestine. Hirai T, et al. **Gastroenterol Jpn** 1990 Apr;25(2):169–74

Characteristics of submucosal lymphoid tissue located in the proximal colon of the rat. Crouse DA, et al. **J Anat** 1989 Feb;162:53–65

The effect of simethicone on colonic visibility after night-prior colonic lavage. A double-blind randomized study. McNally PR, et al. **J Clin Gastroenterol** 1989 Dec; 11(6):650–2

BLOOD SUPPLY

Accessory arteries supplying the human transverse colon. Koizumi M, et al. **Acta Anat (Basel)** 1990;137(3):246–51

Clinical appearances in severe ischaemic colitis. Case report. Magnusson I, et al. **Acta Chir Scand** 1990 Mar;156(3):241–5

Evidence of free radical (FR) involvement in ischemic colitis. Douglas DM, et al. **Agents Actions** 1989 Jun;27(3-4):435–7

1989 David H. Sun lecture. Colonic ischemia—25 years later. Boley SJ. **Am J Gastroenterol** 1990 Aug;85(8):931–4

Ischemic colitis and acalculous necrotizing cholecystitis as rare manifestations of cholesterol emboli in the same patient. Moolenaar W, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1421–2

VIP antagonist [N-Ac-Tyr1,D-Phe2]-GRF-(1-29)-NH2: an inhibitor of vasodilation in the feline colon. Blank MA, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G252–7

Microvascular circulation of the ascending colon in horses. Snyder JR, et al. **Am J Vet Res** 1989 Dec;50(12):2075–83

The right colon as a target organ of nonocclusive mesenteric ischemia. Case report and review of the literature. Landreneau RJ, et al. **Arch Surg** 1990 May;125(5):591–4

Peroperative observation of marginal artery bleeding: a predictor of anastomotic leakage. Novell JR, et al. **Br J Surg** 1990 Feb;77(2):137–8

Angiographic demonstration of bleeding in a unusually located Meckel's diverticulum simulating colonic bleeding. Oglevie SB, et al. **Cardiovasc Intervent Radiol** 1989 Jul-Aug;12(4):210–2

Ischaemic colitis. Price AB. **Curr Top Pathol** 1990;81:229–46 (50 ref.)

Ischemic colitis as a cause of massive lower gastrointestinal bleeding and peritonitis. Report of five cases. Chou YH, et al. **Dis Colon Rectum** 1989 Dec;32(12):1065–70

Mortality from ischemic colitis. Guttormson NL, et al. **Dis Colon Rectum** 1989 Jun;32(6):469–72

Colonic varices. Report of a case. Isbister WH, et al. **Dis Colon Rectum** 1989 Jun;32(6):524–7

Failure to demonstrate reperfusion injury following ischaemia of the equine large colon using dimethyl sulphoxide. Reeves MJ, et al. **Equine Vet J** 1990 Mar; 22(2):126–32

Ischaemic disease of the colon and rectum after surgery for abdominal aortic aneurysm: a prospective study of the incidence and risk factors. Bast TJ, et al. **Eur J Vasc Surg** 1990 Jun;4(3):253–7

Spontaneously ruptured middle colic artery aneurysm in a patient with Marfan's syndrome. Srinivasan R, et al. **Eur J Vasc Surg** 1990 Jun;4(3):317–8

Endoscopic treatment of colonic angiodysplasia: the procedure was a success, but.... Thirlby RC. **Gastroenterology** 1990 May;98(5 Pt 1):1386–7

Endoscopic tonometric assessment of intestinal perfusion in a canine model. Schonholz S, et al. **Gastrointest Endosc** 1989 Sep-Oct;35(5):425–7

Leukocytoclastic vasculitis of the colon. Bisceglia M, et al. **Ital J Surg Sci** 1989;19(3):269–72

Pericolostomy varices. Stansby G, et al. **J R Coll Surg Edinb** 1990 Apr;35(2):109–10

A prospective study of clinically and endoscopically documented colonic ischemia in 100 patients undergoing aortic reconstructive surgery with aggressive colonic and direct pelvic revascularization, compared with historic controls. Zelenock GB, et al. **Surgery** 1989 Oct; 106(4):771–9; discussion 779–80

[Clinical study of colic vessels with respect to their significance in the replacement of the esophagus by the colon] Cheng BC. **Chung Hua Wai Ko Tsa Chih** 1989 Sep; 27(9):566–8, 575–6 (Eng. Abstr.) (Chi)

[Imaging in ischemic colitis] de La Lande P. **Ann Gastroenterol Hepatol (Paris)** 1990 Jan-Feb;26(1):15–6 (Fre)

[Ischemic colitis] Guivarc'h M. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):181–3 (Fre)

[Digestive amyloidosis with ischemic ulcer of the colon in a chronic hemodialysis patient] Saguem MH, et al.

Ann Pathol 1990;10(3):187–90 (Eng. Abstr.) (Fre)
[Digestive hemorrhages in the elderly and angiodysplasias] Le Bodic L, et al. Rev Med Suisse Romande 1990 Jun; 110(6):497–8 (Fre)
[The arterial blood supply of the ascending colon] Kaufmann HP. Chirurg 1989 Aug;60(8):517–20 (Eng. Abstr.) (Ger)
[Extensive angiodysplasia of the colon and rectum as a cause of recurrent lower intestinal hemorrhage] Vogt P, et al. Chirurg 1990 Jul;61(7):545–7 (Ger)
[Disorders of microcirculation in colon anastomoses and their significance for the pathogenesis of suture dehiscence] Schäfer K, et al. Langenbecks Arch Chir 1990;375(1):24–32 (Eng. Abstr.) (Ger)
[Cholesterol crystal embolization, a rare cause of postoperative ischemic colitis] Pfeifer M, et al. Vasa 1990; 19(1):54–8 (Eng. Abstr.) (Ger)
[Prevention of colonic ischemia during surgery of the aorta] Piccinini E, et al. Angiologia 1990 May–Jun;42(3):112–4 (Eng. Abstr.) (Ita)
[Three cases of recurrent ischemic colitis] Hayashi S, et al. Nippon Shokakibyo Gakkai Zasshi 1990 May;87(5):1217–22 (14 ref.) (Jpn)
[Ischemic colitis as a localized manifestation of ergotism?] Sorf M, et al. Vnitr Lek 1990 Feb;36(2):177–9 (Eng. Abstr.) (Slo)
[Vascular ectasia of the colon in Turner's syndrome: an endoscopic study] Monserat R, et al. GEN 1988 Apr–Jun; 42(2):54–5 (Eng. Abstr.) (Spa)
[Angiodysplasia of the colon. Apropos of 2 cases] Jiménez García A, et al. Rev Esp Enferm Apar Dig 1989 Dec;76(6 Pt 2):677–80 (Eng. Abstr.) (Spa)
[Angiodysplasia of the colon. Experience in 60 cases] Sebastián Domingo JJ, et al. Rev Esp Enferm Dig 1990 Feb;77(2):125–8 (Eng. Abstr.) (Spa)

CYTOLOGY

Morphometrical and cell kinetic studies of normal human colorectal mucosa. Comparison between the proximal and the distal large intestine. Arai T, et al. Acta Pathol Jpn 1989 Nov;39(11):725–30
Histochemical analysis of goblet cell mucins in the chick embryo colon. Gheri G, et al. Arch Ital Anat Embriol 1989 Jan–Mar;94(1):71–83
Crypt restricted heterogeneity of goblet cell mucus glycoprotein in histologically normal human colonic mucosa: a potential marker of somatic mutation. Fuller CE, et al. Br J Cancer 1990 Mar;61(3):382–4
Explant organ culture of hamster alimentary tract epithelium. Resau JH, et al. Cell Biol Toxicol 1986 Sep;2(3):401–15
Quantitative contribution of factors regulating rat colonic crypt epithelium: role of parenteral and enteral feeding, caloric intake, dietary cellulose level and the colon carcinogen DMH. Cameron IL, et al. Cell Tissue Kinet 1990 May;23(3):227–35
Flavone acetic acid suppresses human peripheral blood lymphocyte and human colonic lamina propria lymphocyte DNA synthesis. Elitsur Y, et al. Clin Immunol Immunopathol 1990 Oct;57(1):96–104
Modulation of human colonic lamina propria lymphocyte proliferation. Effect of bile acids and oxidized fatty acids. Elitsur Y, et al. Dig Dis Sci 1990 Feb;35(2):212–20
Colonic lymphoid cell subsets and epithelial HLA-DR antigens in familial polyposis coli. Horie Y, et al. Gastroenterol Jpn 1989 Dec;24(6):632–9
Synergism between vasoactive intestinal polypeptide and carbachol-mediated responses in a human mucus-secreting colonic epithelial cell line. Barrett KE, et al. Gastroenterology 1989 Nov;97(5):1345–6
Enteroendocrine cells in the developing opossum small intestine and colon. Krause WJ, et al. J Anat 1989 Feb; 162:83–96
Ca2+ and cAMP activate K+ channels in the basolateral membrane of crypt cells isolated from rabbit distal colon. Loo DD, et al. J Membr Biol 1989 Aug;110(1):19–28
Consumption of raw potato starch alters intestinal function and colonic cell proliferation in the rat. Calvert RJ, et al. J Nutr 1989 Nov;119(11):1610–6
The effect of early caloric restriction on colonic cellular growth in rats. Albanes D, et al. Nutr Cancer 1990; 13(1–2):73–80
The effect of elevated selenium intake on colonic cellular growth in rats. Salbe AD, et al. Nutr Cancer 1990; 13(1–2):81–7
Goblet cell mucin in human foetal colon, its composition and susceptibility to enzyme degradation: a histochemical study. Filipe MI, et al. Symp Soc Exp Biol 1989;43:249–58
[The occurrence and behavior of the goblet cells in the intestinal canal of swine] Michel G. Anat Anz 1989; 169(3):169–74 (Eng. Abstr.) (Ger)

DRUG EFFECTS

Differential motor effects of lidocaine on the circular muscle of proximal and distal rat colon. Niklasson LG, et al. Acta Physiol Scand 1990 Jun;139(2):391–2
Studies of cholera toxin-induced changes of alkaline secretion and transepithelial potential difference in the rat intestine in vivo. Tantisira MH, et al. Acta Physiol Scand 1990 Jan;138(1):75–84
Cisapride accelerates colonic transit in constipated patients with colonic inertia [letter; comment] Fink S, et al. Am J Gastroenterol 1990 Feb;85(2):216–7 Comment on: Am J Gastroenterol 1989 Aug;84(8):882–7.
Aldosterone induces apical vesicles in rat distal colon. Perrone RD, et al. Am J Physiol 1990 Jul;259(1 Pt 2):F65–71
Depressant effect of very low levels of aflatoxin B1 on mouse glyoxylase-I activity and methylglyoxal disposal. Ankrah NA, et al. Biochem Pharmacol 1990 Apr 1;39(7):1261–3
Effects of a 5-hydroxytryptamine3 receptor antagonist (ICS 205–930) on colonic motor activity in healthy men. Stacher G, et al. Br J Clin Pharmacol 1989 Sep;28(3):315–22
Effect of DDE on ionic and fluid movement in rat colon in vitro. Iturri SJ, et al. Comp Biochem Physiol [C] 1989; 94(1):173–6
Motor responsiveness of proximal and distal human colonic muscle layers to acetylcholine, noradrenaline, and vasoactive intestinal peptide. Burleigh DE. Dig Dis Sci 1990 May;35(5):617–21
GR 38032F (ondansetron), a selective 5HT3 receptor antagonist, slows colonic transit in healthy man. Talley NJ, et al. Dig Dis Sci 1990 Apr;35(4):477–80
The effects of enterotoxins and short-chain fatty acids on water and electrolyte fluxes in ileal and colonic loops in vivo in the rat. Ramakrishna BS, et al. Digestion 1990; 45(2):93–101
Effects induced by chronic treatment with selective D1 or D2 antagonists on open-field behavior and colonic temperature. Maldonado R, et al. Fundam Clin Pharmacol 1990;4(3):341–56
Misoprostol provides a colonic mucosal protective effect during acetic acid-induced colitis in rats. Fedorak RN, et al. Gastroenterology 1990 Mar;98(3):615–25
Selective stimulation of colonic motor response to a meal by sigma ligands in dogs. Junien JL, et al. Gastroenterology 1990 Sep;99(3):684–9
Enterotoxins from Clostridium difficile; diarrhoeogenic potency and morphological effects in the rat intestine. Torres J, et al. Gut 1990 Jul;31(7):781–5
1,25(OH)2 vitamin D3 stimulates membrane phosphoinositide turnover, activates protein kinase C, and increases cytosolic calcium in rat colonic epithelium. Wali RK, et al. J Clin Invest 1990 Apr;85(4):1296–303
Effects of sodium sulfate on fecal pH and proliferation of colonic mucosa in patients at high risk for colon cancer. Kashtan H, et al. J Natl Cancer Inst 1990 Jun 6;82(11):950–2
Potassium secretion in response to taurodeoxycholic acid in the newborn rabbit colon. Potter GD, et al. J Pediatr Gastroenterol Nutr 1989 Oct;9(3):365–70
Cholinergic and adrenergic contractile properties of the canine ileocolonic junction. Pelckmans PA, et al. J Pharmacol Exp Ther 1990 Jul;254(1):158–64
Effect of Phe-D-Met-Arg-Phe-NH2 and other Phe-Met-Arg-Phe-NH2-related peptides on mouse colonic propulsive motility: a structure-activity relationship study. Raffa RB, et al. J Pharmacol Exp Ther 1990 Sep;254(3):809–14
Epithelial and mucosal preparations from canine colon: responses to substance P. Rangachari PK, et al. J Pharmacol Exp Ther 1990 Sep;254(3):1076–83
Characterization of Ile,Ser-bradykinin-induced changes in short-circuit current across rat colon. Tien XY, et al. J Pharmacol Exp Ther 1990 Sep;254(3):1063–7
The effect of dietary sodium and potassium intake on potassium secretion and kinetics in rat distal colon. Edmonds CJ, et al. J Physiol (Lond) 1990 May;424:317–27
Mechanism of action of neurotensin at the ileocecal sphincter region. Rothstein RD, et al. Life Sci 1989;45(16):1475–82
A-18-famide and F-8-famide, endogenous mammalian equivalents of the molluscan neuropeptide FMRFamide (Phe-Met-Arg-Phe-NH2), inhibit colonic bead expulsion time in mice. Raffa RB, et al. Peptides 1989 Jul–Aug; 10(4):873–5
Relaxation response to pinacidil and diazoxide in the mouse isolated distal colon. Lebrun P, et al. Pharmacology 1990; 40(1):21–6
[Electromyography of the human colon] Müller-Lissner S. Z Gastroenterol 1990 Feb;28(2):121–2 (Ger)

EMBRYOLOGY

Morphogenesis as a parallel of invasion: the epithelial–mesenchymal boundary and basal lamina in foetal rat colon. Chrusch C, et al. Clin Exp Metastasis 1990 Mar–Apr;8(2):121–7
Membrane domains of intestinal epithelial cells: distribution of Na+,K+-ATPase and the membrane skeleton in adult rat intestine during fetal development and after epithelial isolation. Amerongen HM, et al. J Cell Biol 1989 Nov; 109(5):2129–38
Differential effects of epidermal growth factor and hydrocortisone in human fetal colon. Ménard D, et al. J Pediatr Gastroenterol Nutr 1990 Jan;10(1):13–20
On the development of the chick embryo colon: a computerized morphometric study. Bryk SG, et al. Z Mikrosk Anat Forsch 1990;104(1):97–118
[Various aspects of organogenesis of the colon in Gallus domesticus: morphologic observation] Gheri G, et al. Arch Ital Anat Embriol 1989 Apr–Jun;94(2):153–71 (Eng. Abstr.) (Ita)

ENZYMOLOGY

Ouabain-sensitive K(+)-ATPase in epithelial cells from guinea pig distal colon. Suzuki Y, et al. Acta Vet Scand Suppl 1989;86:192–4
The effects of diabetes and insulin on colonic tissue kallikrein. Jaffa AA, et al. Adv Exp Med Biol 1989;247B:669–73
Ouabain-sensitive K(+)-ATPase in epithelial cells from guinea pig distal colon. Watanabe T, et al. Am J Physiol 1990 Apr;258(4 Pt 1):G506–11
Immunohistochemical localization of sodium-potassium-stimulated adenosine triphosphatase and carbonic anhydrase in human colon and colonic neoplasms. Gramlich TL, et al. Arch Pathol Lab Med 1990 Apr; 114(4):415–9
An attempt to determine the tissue origin of equine serum alkaline phosphatase by isoelectric focusing. Ellison RS, et al. Can J Vet Res 1990 Jan;54(1):119–25
Cytochrome P450 activity and distribution in the human colon mucosa. Stralka DJ, et al. Cancer 1989 Nov 15; 64(10):2111–6
Enzyme-altered foci in colons of carcinogen-treated rats. Barrow BJ, et al. Cancer Res 1990 Mar 15;50(6):1911–6
Expression of mitochondrial cytochrome c oxidase in human colonic cell differentiation, transformation, and risk for colonic cancer. Heerdt BG, et al. Cancer Res 1990 Mar 1;50(5):1596–600
Expression of UDP-GalNAc:NeuAc alpha 2,3Gal beta-R beta 1,4(GalNAc to Gal) N-acetylgalactosaminyltransferase involved in the synthesis of Sda antigen in human large intestine and colorectal carcinomas. Malagolini N, et al. Cancer Res 1989 Dec 1;49(23):6466–70
Glutathione S-transferases in normal and cancerous human colon tissue. Peters WH, et al. Carcinogenesis 1989 Dec; 10(12):2371–4
Induction of cytochrome P450IA1 in rat colon and liver by indole-3-carbinol and 5,6-benzoflavone. Vang O, et al. Carcinogenesis 1990 Aug;11(8):1259–63
Effect of epidermal growth factor on the expression of digestive hydrolases in the jejunum and colon of newborn rats. Foltzer-Jourdainne C, et al. Endocrinology 1990 Oct; 127(4):1763–9
Colonic sodium-potassium adenosine triphosphate subunit gene expression: ontogeny and regulation by adrenocortical steroids. Fuller PJ, et al. Endocrinology 1990 Jul; 127(1):32–8
Detection and characterization of sucrase-isomaltase in adult human colon and in colonic polyps. Beaulieu JF, et al. Gastroenterology 1990 Jun;98(6):1467–77
Acetylation of 5-aminosalicylate by hamster colon arylamine N-acetyltransferase. Tucker MA, et al. J Appl Toxicol 1990 Feb;10(1):73–4
Absence of effect of supplemental oral calcium on ornithine decarboxylase (ODC) activity in colonic mucosae of healthy individuals with a family history of colorectal cancer. Love RR, et al. J Surg Oncol 1990 Feb;43(2):79–82
Prevalence of nucleoside diphosphate kinase autophosphorylation in human colon carcinoma versus normal colon homogenates. Francis B, et al. Mol Carcinog 1989;2(3):168–78
Suckling rat colon synthesizes and processes active lactase-phlorizin hydrolase immunologically identical to that from jejunum. Büller HA, et al. Pediatr Res 1989 Sep; 26(3):232–6
[Proteolytic activities of colonic mucosa] Hütter HJ, et al. Z Med Lab Diagn 1990;31(1):27–31 (Eng. Abstr.) (Ger)
[Immunocytochemical characterization of the DNA-polymerase alpha-positive colonic mucosal epithelial cells in patients with ulcerative colitis] Matsumoto T, et al. Nippon Shokakibyo Gakkai Zasshi 1989 Aug;86(8):1611–6 (Eng. Abstr.) (Jpn)

GROWTH & DEVELOPMENT

Perinatal expression of brush-border hydrolases in rat colon: hormonal and tissue regulations. Foltzer-Jourdainne C, et al. Am J Physiol 1989 Oct;257(4 Pt 1):G496–503
Ontogenetic development of nutrient transporters in bullfrog intestine. Toloza EM, et al. Am J Physiol 1990 May;258(5 Pt 1):G760–9
Ontogenetic development of transporter regulation in bullfrog intestine. Toloza EM, et al. Am J Physiol 1990 May;258(5 Pt 1):G770–3
Postnatal development of rat colon epithelial cells is associated with changes in the expression of the beta 1,4-N-acetylgalactosaminyltransferase involved in the synthesis of Sda antigen of alpha 2,6-sialyltransferase activity towards N-acetyl-lactosamine. Dall'Olio F, et al. Biochem J 1990 Sep 1;270(2):519–24
Specific expression of lactase in the jejunum and colon during postnatal development and hormone treatments in the rat. Freund JN, et al. Biochem J 1990 May 15;268(1):99–103
Age-related variations in jejunum and distal colon contractile response to thyrotropin-releasing hormone in vitro. Heitkemper MM, et al. Biol Neonate 1990;58(1):8–15

IMMUNOLOGY

Characterization of monoclonal antihuman small bowel and colon specific mucin antibodies. Prindiville TP, et al. Am J Clin Pathol 1990 May;93(5):621–30
Monoclonal antibody recognizing a carcinoembryonic antigen epitope differentially expressed in human colonic carcinoma versus normal adult colon tissues. Zhang HZ, et al. Cancer Res 1989 Oct 15;49(20):5766–73
Possible role of vascular endothelial cells in immune

responses in colonic mucosa examined immunocytochemically in subjects with and without ulcerative colitis. Matsumoto T, et al. **Clin Exp Immunol** 1989 Dec;78(3):424–30

IgG subclass–containing cells in the human large bowel of normal controls, non–IBD colitis, and ulcerative colitis. Iizuka M. **Gastroenterol Jpn** 1990 Feb;25(1):24–31

A shared and unique epitope(s) on human colon, skin, and biliary epithelium detected by a monoclonal antibody. Das KM, et al. **Gastroenterology** 1990 Feb;98(2):464–9

Ability of human colonic epithelium to express the 4F2 antigen, the common acute lymphoblastic leukemia antigen, and the transferrin receptor. Studies in inflammatory bowel disease and after in vitro exposure to different stimuli. Fais S, et al. **Gastroenterology** 1989 Dec;97(6):1435–41

Expression of immune sensitization to epithelial cell–associated components in the cotton–top tamarin: a model of chronic ulcerative colitis. Winter HS, et al. **Gastroenterology** 1989 Nov;97(5):1075–82

Colonic epithelium reactive monoclonal antibodies. Identification and immunohistochemical localization of the target epitopes. Verstijnen CP, et al. **Histochemistry** 1989; 92(5):397

Distribution of lymphocyte subsets in the large intestinal lymphoid follicles of lambs. Aleksandersen M, et al. **Immunology** 1990 Jul;70(3):391–7

Expression of TAG–72 in normal colon, transitional mucosa, and colon cancer. Xu M, et al. **Int J Cancer** 1989 Dec 15;44(6):985–9

Autoantibodies to colonic cells and subcellular fractions in inflammatory bowel disease: do they exist? Cantrell M, et al. **J Autoimmun** 1990 Jun;3(3):307–20

Three antibodies to human intestinal brush border membrane are characterized as anti–Le(a). Dickson L, et al. **J Immunogenet** 1989 Jun;16(3):193–202

Studies on the structure of the organ–specific determinant of human colonic mucin. Gold DV, et al. **Mol Immunol** 1989 Aug;26(8):769–77

Antibody production by the pig colon during infection with Treponema hyodysenteriae. Rees AS, et al. **Res Vet Sci** 1989 Sep;47(2):263–9

The effect of parenteral immunisation on antibody production in the pig colon. Rees AS, et al. **Vet Immunol Immunopathol** 1989 Nov 30;23(1–2):171–8

[Immunohistochemical studies of ulcerative colitis—expression of HLA–DR antigen by colonic epithelium and the role of dendritic cells in the lamina propria] Kimura M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):187–94 (Eng. Abstr.) **(Jpn)**

INJURIES

Colonic perforation following mild trauma in a patient with Crohn's disease. Johnson GA, et al. **Am J Emerg Med** 1990 Jul;8(4):340–1

Wounds of the colon and their treatment [letter; comment] Sommer GN Jr. **Ann Surg** 1990 Jul;212(1):118 Comment on: Ann Surg 1989 Jun;209(6):728–33; 733–4.

Colon wound management and prograde colonic lavage in large bowel trauma. Baker LW, et al. **Br J Surg** 1990 Aug; 77(8):872–6

Primary repair vs. colostomy for the treatment of penetrating colon injuries [see comments] Ridgeway CA, et al. **Dis Colon Rectum** 1989 Dec;32(12):1046–9 Comment in: Dis Colon Rectum 1990 Apr;33(4):354.

Primary repair vs. colostomy for the treatment of colon injuries [letter; comment] Voeller GR, et al. **Dis Colon Rectum** 1990 Apr;33(4):354 Comment on: Dis Colon Rectum 1989 Dec;32(12):1046–9.

Spontaneous dissection of air into the transverse mesocolon during double–contrast barium enema. Cho KC, et al. **Gastrointest Radiol** 1990 Winter;15(1):76–7

Blunt abdominal trauma causing a 'degloving injury' to the colon. Ho YH, et al. **Injury** 1990 Mar;21(2):119–20

Indications for barium enema preceding colostomy closure in trauma patients. Atweh NA, et al. **J Trauma** 1989 Dec; 29(12):1641–2

Management of the injured colon: evolving practice at an urban trauma center. Levison MA, et al. **J Trauma** 1990 Mar;30(3):247–51; discussion 251–3

Management of colon injuries. Huber PJ Jr, et al. **Surg Clin North Am** 1990 Jun;70(3):561–73 (42 ref.)

Intestinal perforation by peritoneal shunt tubing: report of two cases. Hornig GW, et al. **Surg Neurol** 1990 Apr; 33(4):288–90 (17 ref.)

[Colon and rectal trauma] Huang CJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 May; 6(5):244–50 (Eng. Abstr.) **(Chi)**

[Colonic perforation after renal transplantation] Billard JL, et al. **Nephrologie** 1990;11(2):95–6 (Eng. Abstr.) **(Fre)**

[Colonic perforation following blunt abdominal trauma] Inderbitzi R, et al. **Schweiz Med Wochenschr** 1990 Jan 27; 120(4):105–8 (35 ref.) (Eng. Abstr.) **(Ger)**

[Perforation of the colon] Valle M, et al. **Minerva Chir** 1990 May 15;45(9):645–51 (Eng. Abstr.) **(Ita)**

[Conservative treatment of perforation of the transverse colon caused by a catheter for continuous peritoneal dialysis. A case report] Grzegorzewska A, et al. **Pol Arch Med Wewn** 1989 Jun;81(6):368–72 (Eng. Abstr.) **(Pol)**

[Traumatic injuries of the colon: primary suture or colostomy?] Costa OL, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Jan–Feb;44(1):25–8 (Eng. Abstr.) **(Por)**

[Diagnostic difficulties in perforation of the intestine with fish bone] Bugaev AI, et al. **Vestn Khir** 1990 Mar; 144(3):41–2 **(Rus)**

[Reconstructive treatment of sequelae of injuries of the large intestine] Fedun AA, et al. **Vestn Khir** 1989 Jun; 142(6):59–63 (Eng. Abstr.) **(Rus)**

[Necrotic retroperitoneal phlegmon after injury of the colon] Opushnev VA, et al. **Vestn Khir** 1989 May;142(5):75 **(Rus)**

[Rupture of the diaphragm in combined trauma] Ostrovskiĭ VP, et al. **Vestn Khir** 1990 Jan;144(1):73–4 **(Rus)**

[Surgical tactics in gunshot wounds of the colon] Zubarev PN. **Vestn Khir** 1990 Mar;144(3):76–9 (Eng. Abstr.) **(Rus)**

[Barium peritonitis caused by perforation of the colon and rectum] Potić D, et al. **Srp Arh Celok Lek** 1989 Jul–Aug; 117(7–8):513–8 (Eng. Abstr.) **(Scc)**

[Hematoma of the right and left retroperitoneal colon as the potential site of perforation] Petričević P, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:171–2 **(Scr)**

[Traumatic and disease–related destruction of the retroperitoneal colon] Tomanović A, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:161–3 (Eng. Abstr.) **(Scr)**

INNERVATION

Volume–sensitive synaptic input to neurons in guinea pig inferior mesenteric ganglion. Anthony TL, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G490–7

Regional cholinergic differences between distal and proximal colonic myenteric plexus. Hasler WL, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G404–10

Autonomic neurons and paraneurons (SIF cells) in the sympathetic ganglia regulating guinea pig proximal colon: immunohistochemical studies. Chiba T, et al. **Arch Histol Cytol** 1989;52 Suppl:343–50 (54 ref.)

Innervation of interstitial cells of Cajal by vasoactive intestinal polypeptide containing nerves in canine colon. Berezin I, et al. **Can J Physiol Pharmacol** 1990 Jul; 68(7):922–32

Inhibitory innervation of colonic smooth muscle cells and interstitial cells of Cajal. Huizinga JD, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):447–54

An in vitro study of the projections of enteric vasoactive intestinal polypeptide–immunoreactive neurons in the human colon. Domoto T, et al. **Gastroenterology** 1990 Apr; 98(4):819–27

Fine structure of neurons synthesizing vasoactive intestinal peptide in the human colon from patients with Hirschsprung's disease. Tsuto T, et al. **Histochemistry** 1989; 93(1):1–8

Immunohistochemical characterization of pelvic neurons which project to the bladder, colon, or penis in rats. Keast JR, et al. **J Comp Neurol** 1989 Oct 15;288(3):387–400

Distribution of hyaluronic acid and chondroitin sulfate proteoglycans in the presumptive aganglionic terminal bowel of ls/ls fetal mice: an ultrastructural analysis. Tennyson VM, et al. **J Comp Neurol** 1990 Jan 15; 291(3):345–62

Immunocytochemical characterization of supporting cells in the enteric nervous system in Hirschsprung's disease. Kato H, et al. **J Pediatr Surg** 1990 May;25(5):514–9

Origin, course, and endings of abnormal enteric nerve fibres in Hirschsprung's disease defined by whole–mount immunohistochemistry. Tam PK, et al. **J Pediatr Surg** 1990 Apr;25(4):457–61

Choline is an inhibitory modulator of cholinergic nerve function in guinea–pig colon. Trout SJ, et al. **J Pharm Pharmacol** 1990 Mar;42(3):211–3

Central neurotensin nerves modulate colo–colonic reflex activity in the guinea–pig inferior mesenteric ganglion. Stapelfeldt WH, et al. **J Physiol (Lond)** 1989 Apr; 411:347–65

Is the reduction of VIP the clue to the pathophysiology of Hirschsprung's disease? Larsson LT, et al. **Z Kinderchir** 1990 Jun;45(3):164–6

METABOLISM

Laxatives and the production of kinins by rat colon. Autore G, et al. **Acta Physiol Hung** 1990;75 Suppl:17–8

Actions of the Cl– channel blocker NPPB on absorptive and secretory transport processes of Na+ and Cl– in rat descending colon. Diener M, et al. **Acta Physiol Scand** 1989 Oct;137(2):215–22

Differential effects of corticosteroids on active electrolyte transport in the mammalian distal colon. Binder HJ, et al. **Acta Vet Scand Suppl** 1989;86:174–80

Unidirectional sodium fluxes in the proximal and in the distal colon of pigs. Breves G, et al. **Acta Vet Scand Suppl** 1989; 86:181–2

Diarrhea and short–chain fatty acids in disaccharide malabsorption; regulation of colonic fermentation. Holtug K, et al. **Acta Vet Scand Suppl** 1989;86:143–5

Mechanisms of absorption of short chain fatty acids—coupling to intracellular pH regulation. Holtug K. **Acta Vet Scand Suppl** 1989;86:126–33 (21 ref.)

Regulation of electrolyte transport in frog colon. Krattenmacher R, et al. **Acta Vet Scand Suppl** 1989; 86:168–73

Short chain fatty acids as metabolic regulators of ion absorption in the colon. Roediger WE. **Acta Vet Scand Suppl** 1989;86:116–25 (50 ref.)

Colonic fermentation and absorption of SCFA in man. Soergel KH, et al. **Acta Vet Scand Suppl** 1989;86:107–15

Two types of Ca channels in smooth muscle cells isolated from guinea–pig taenia coli. Yabu H, et al. **Adv Exp Med Biol** 1989;255:129–34

Deoxycholate–stimulated release of peptide YY from the isolated perfused rabbit left colon. Ballantyne GH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G715–24

Na+–H+ antiporter of rat colonic basolateral membrane vesicles. Dudeja PK, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):G624–32

H+ and HCO3– flux across apical surface of rat distal colon. Feldman GM, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):C35–40

Tissue origin of peptide–responsive eicosanoid production in rabbit intestine. Leduc LE, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G879–86

Apical plasma membrane vesicles formed from organ donor colon demonstrate Na+ and H+ conductances and Na+/H+ exchange. Harig JM, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):438–43

Toxicity of methylglyoxal towards rat enterocytes and colonocytes. Baskaran S, et al. **Biochem Int** 1990; 21(1):165–74

Water handling in the human distal colon in vitro: role of Na+, Cl– and HCO3–. Escobar E, et al. **Biochim Biophys Acta** 1990 Sep 7;1027(3):257–63

Effects of alpha– and beta–calcitonin gene–related peptides upon ion transport in rat descending colon. Cox HM, et al. **Br J Pharmacol** 1989 Aug;97(4):996–8

Soluble factor in normal tissues that stimulates high–molecular–weight sialoglycoprotein production by human colon carcinoma cells. Irimura T, et al. **Cancer Res** 1990 Jun 1;50(11):3331–8

A comparison of different nutrient media and supplementation with dexamethasone for mouse colon organ culture. Reiss B, et al. **Cell Biol Toxicol** 1984 Oct; 1(1):11–9

Localization of cholesterol in the colonic epithelium of the guinea pig: regional differences and functional implications. Luciano L, et al. **Cell Tissue Res** 1989 Nov;258(2):339–47

Storage of glycogen in rat colonic epithelium during induction of secretion and absorption in vitro. Mestres P, et al. **Cell Tissue Res** 1990 Jul;261(1):195–203

Electrolyte transport in rat colon: comparative effects of intestinal resections and bypass. Carreras O, et al. **Clin Physiol Biochem** 1990;8(1):23–9

Acetylation of 5–aminosalicylic acid by isolated human colonic epithelial cells. Ireland A, et al. **Clin Sci** 1990 Jan; 78(1):105–11

Metabolism of 15N–labelled urea in the functioning and defunctioned human colon. Moran BJ, et al. **Clin Sci** 1990 Sep;79(3):253–8

Ciprofloxacin prior to colon surgery. Dörner A, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):177–9

Magnesium transport across colon ascendens of the rat. Karbach U. **Dig Dis Sci** 1989 Dec;34(12):1825–31

Video enhanced imaging of the fluorescent Na+ probe SBFI indicates that colonic crypts absorb fluid by generating a hypertonic interstitial fluid. Naftalin RJ, et al. **FEBS Lett** 1990 Jan 29;260(2):187–94

Free radical generating mechanisms in the colon: their role in the induction and promotion of colorectal cancer? Blakeborough MH, et al. **Free Radic Res Commun** 1989; 6(6):359–67

Atrial natriuretic factor and cyclic guanosine monophosphate: ion transport in rat colon in vitro and in vivo. Barros GJ, et al. **Gastroenterology** 1990 Oct; 99(4):1153–6

Regulation of eicosanoid production in rabbit colon by interleukin–1. Cominelli F, et al. **Gastroenterology** 1989 Dec;97(6):1400–5

Polyethylene glycol 400 penetration of the colonic epithelial barrier of the rat. Krugliak P, et al. **Gastroenterology** 1990 Oct;99(4):1001–7

Role of prostaglandins and calcium in the effects of Entamoeba histolytica on colonic electrolyte transport. McGowan K, et al. **Gastroenterology** 1990 Apr; 98(4):873–80

Short–chain fatty acids in bowel contents after intestinal surgery [see comments] Mortensen PB, et al. **Gastroenterology** 1989 Nov;97(5):1090–6 Comment in: Gastroenterology 1990 Jun;98(6):1727–8.

The degradation of amino acids, proteins, and blood to short–chain fatty acids in colon is prevented by lactulose. Mortensen PB, et al. **Gastroenterology** 1990 Feb; 98(2):353–60

Short–chain fatty acid absorption in rabbit colon in vitro. Sellin JH, et al. **Gastroenterology** 1990 Sep;99(3):676–83

Binding of proteolytically–degraded human colonic mucin glycoproteins to the Gal/GalNAc adherence lectin of Entamoeba histolytica. Chadee K, et al. **Gut** 1990 Aug; 31(8):890–5

Alternative pathways for hydrogen disposal during fermentation in the human colon. Gibson GR, et al. **Gut** 1990 Jun;31(6):679–83

Development of colonic sodium transport in early childhood and its regulation by aldosterone. Jenkins HR, et al. **Gut** 1990 Feb;31(2):194–7

Factors affecting the potassium concentration at the mucosal surface of the proximal and the distal colon of guinea pig. Kück-Biere U, et al. **Gut** 1990 Jan;31(1):64–9

15N-urea metabolism in the functioning human colon: luminal hydrolysis and mucosal permeability. Moran BJ, et al. **Gut** 1990 Apr;31(4):454–7

Immunohistochemical analysis of the binding of human IgM to secretory component present in normal adult colon epithelia, but not in colon cancer and fetal colon epithelia. Ditzel H, et al. **Histochemistry** 1990;94(1):95–9

Immunoreactivity of tumor-associated glycoprotein (TAG-72) in normal, hyperplastic, and neoplastic colon. Listrom MB, et al. **Hum Pathol** 1989 Oct;20(10):994–1000

Characterization of Na–H exchange in apical membrane vesicles of rat colon. Rajendran VM, et al. **J Biol Chem** 1990 May 25;265(15):8408–14

Aldosterone induction of electrogenic sodium transport in the apical membrane vesicles of rat distal colon. Rajendran VM, et al. **J Biol Chem** 1989 Nov 5;264(31):18638–44

Quantification of protein transcytosis in the human colon carcinoma cell line CaCo-2. Heyman M, et al. **J Cell Physiol** 1990 May;143(2):391–5

Hydrogen peroxide stimulates rat colonic prostaglandin production and alters electrolyte transport. Karayalcin SS, et al. **J Clin Invest** 1990 Jul;86(1):60–8

Regulation of active sodium and potassium transport in the distal colon of the rat. Role of the aldosterone and glucocorticoid receptors. Turnamian SG, et al. **J Clin Invest** 1989 Dec;84(6):1924–9

Ca-sensitive sodium absorption in the colon of Xenopus laevis. Krattenmacher R, et al. **J Comp Physiol [B]** 1990; 160(2):161–5

Aldosterone and thyroid hormone interaction on the sodium and potassium transport pathways of rat colonic epithelium. Edmonds CJ, et al. **J Endocrinol** 1990 Jan;124(1):47–52

Transport of water and food particles through the avian ceca and colon. Björnhag G. **J Exp Zool Suppl** 1989;3:32–7 (24 ref.)

Relationship of cecal and colonic motility to diet, habitat, and cecal anatomy in several avian species. Duke GE. **J Exp Zool Suppl** 1989;3:38–47

Active Ca2+ transport systems in basolateral membranes from rabbit distal colon. Wiener H, et al. **J Intern Med Suppl** 1990;732:119–24

Fate of oleate in the colon of the rat. Segal L, et al. **J Lab Clin Med** 1990 Feb;115(2):249–53

Reconstitution of a calcium-activated potassium channel in basolateral membranes of rabbit colonocytes into planar lipid bilayers. Turnheim K, et al. **J Membr Biol** 1989 Dec; 112(3):247–54

Rabbit distal colon epithelium: II. Characterization of (Na+,K+,Cl–)-cotransport and [3H]-bumetanide binding. Wiener H, et al. **J Membr Biol** 1989 Sep;110(2):163–74

Colonic fermentation of carbohydrate in the premature infant: possible relevance to necrotizing enterocolitis. Kien CL. **J Pediatr** 1990 Jul;117(1 Pt 2):S32–8 (65 ref.)

Excitatory effect of morphine and opioid peptides in the rat isolated colon. Laniyonu A, et al. **J Pharm Pharmacol** 1989 Nov;41(11):751–6

[3H]acetylcholine release from the guinea-pig distal colon: comparison with ileal [3H]acetylcholine release and effect of adrenoceptor stimulation. Marcoli M, et al. **J Pharm Pharmacol** 1989 Dec;41(12):824–8

Effects of corticosteroid hormones on the electrophysiology of rat distal colon: implications for Na+ and K+ transport. Binder HJ, et al. **J Physiol (Lond)** 1989 Mar;410:425–41

Active potassium absorption in rat distal colon. Sweiry JH, et al. **J Physiol (Lond)** 1990 Apr;423:155–70

Red and blue distinctive mucin-histochemical types of Japanese colorectal mucosa. Yanagisawa A, et al. **Jpn J Cancer Res** 1990 Apr;81(4):372–5

Lectin-binding sites in neoplastic and non-neoplastic colonic mucosa of 1,2-dimethylhydrazine-treated rats. Calderó J, et al. **Lab Invest** 1989 Dec;61(6):670–6

Effect of dietary fat on the lipid composition and utilization of short-chain fatty acids by rat colonocytes. Awad AB, et al. **Lipids** 1990 Jun;25(6):316–20

Diversion colitis: a nutritional deficiency syndrome? Agarwal VP, et al. **Nutr Rev** 1989 Sep;47(9):257–61 (28 ref.)

Segmental heterogeneity of basal and aldosterone-induced electrogenic Na transport in human colon. Sandle GI. **Pflugers Arch** 1989 Sep;414(6):706–12

Macromolecular prodrugs. XV. Colon-targeted delivery—bioavailability of naproxen from orally administered dextran-naproxen ester prodrugs varying in molecular size in the pig. Harboe E, et al. **Pharm Res** 1989 Nov;6(11):919–23

Macromolecular prodrugs. XVI. Colon-targeted delivery—comparison of the rate of release of naproxen from dextran ester prodrugs in homogenates of various segments of the pig gastrointestinal (GI) tract. Larsen C, et al. **Pharm Res** 1989 Dec;6(12):995–9

Absorption of dissociated and undissociated short-chain fatty acids across the colonic epithelium of guinea-pig. Rönnau K, et al. **Q J Exp Physiol** 1989 Jul;74(4):511–9

Water absorption from the pig proximal colon: relations with feeding and flow of digesta. Theodorou V, et al. **Q J Exp Physiol** 1989 Jul;74(4):521–9

Culture of normal and inflamed rabbit colonic explants. Medium-term prostaglandin profile. Nygård G, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1135–44

Expression of epidermal growth factor receptor in normal colorectal mucosa, adenoma, and carcinoma. Koretz K, et al. **Virchows Arch [A]** 1990;416(4):343–9

[Intestinal malabsorption of starch and gas production in the colon] Flourié B, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Oct;25(5):229–33 (Eng. Abstr.) (Fre)

[Oxalates and the digestive tract] Gendre JP. **Ann Gastroenterol Hepatol (Paris)** 1990 Mar-Apr; 26(2):81–4 (12 ref.) (Fre)

MICROBIOLOGY

The influence of colonizing micro-organisms on development of crypt architecture in the neonatal mouse colon. Hill RR, et al. **Acta Anat (Basel)** 1990;137(2):137–40

Intracolonic bacterial metabolism. Bustos Fernández L, et al. **Acta Gastroenterol Latinoam** 1989;19(4):187–96 (61 ref.)

Effect of chronic ingestion of a fermented dairy product containing Lactobacillus acidophilus and Bifidobacterium bifidum on metabolic activities of the colonic flora in humans. Marteau P, et al. **Am J Clin Nutr** 1990 Oct; 52(4):685–8

Growth of Ehrlichia risticii in human colonic epithelial cells. Rikihisa Y. **Ann N Y Acad Sci** 1990;590:104–10

Ciprofloxacin concentrations and impact of the colon microflora in patients undergoing colorectal surgery. Brismar B, et al. **Antimicrob Agents Chemother** 1990 Mar; 34(3):481–3

Increase in colonic methanogens and total anaerobes in aging rats. Maczulak AE, et al. **Appl Environ Microbiol** 1989 Oct; 55(10):2468–73

Effects of commonly used bowel preparations on the large bowel mucosal-associated and luminal microflora in the rat model. Lindsey JT, et al. **Dis Colon Rectum** 1990 Jul; 33(7):554–60

Influence of colonizing micro-flora on the mucin histochemistry of the neonatal mouse colon. Hill RR, et al. **Histochem J** 1990 Feb;22(2):102–5

Adhesion of colonization factor antigen II-positive enterotoxigenic Escherichia coli strains to human enterocytelike differentiated HT-29 cells: a basis for host-pathogen interactions in the gut. Neeser JR, et al. **Infect Immun** 1989 Dec;57(12):3727–34

Influence of retention time on degradation of pancreatic enzymes by human colonic bacteria grown in a 3-stage continuous culture system. Macfarlane GT, et al. **J Appl Bacteriol** 1989 Nov;67(5):520–7

Metabolism of dietary genotoxins by the human colonic microflora; the fecapentaenes and heterocyclic amines. Van Tassell RL, et al. **Mutat Res** 1990 May;238(3):209–21 (86 ref.)

Dietary genotoxins and the human colonic microflora. Van Tassell RL, et al. **Prog Clin Biol Res** 1990;340E:149–58 (27 ref.)

In vitro and in vivo effects of three bismuth compounds on fermentation by colonic bacteria. León-Barúa R, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 1:S24–9

Effect of erythromycin acistrate and erythromycin stearate on human colonic microflora. Kaukoranta-Tolvanen SS, et al. **Scand J Infect Dis** 1989;21(6):717–20

Influence of ciprofloxacin on the colonic microflora in young and elderly volunteers: no impact of the altered drug absorption. Ljungberg B, et al. **Scand J Infect Dis** 1990; 22(2):205–8

Impact of bacteria on metabolism of collagen in colonic obstruction in rats. Törnqvist A, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):5–8

[Intestinal microflora in patients operated on for nonspecific inflammatory diseases of the colon] Korneva TK, et al. **Klin Med (Mosk)** 1990 Jan;68(1):92–5 (Rus)

PATHOLOGY

Colonic lesions associated with Henoch-Schonlein purpura. Cappell MS, et al. **Am J Gastroenterol** 1990 Sep; 85(9):1186–8

Colonic aberrant crypts in azoxymethane-treated F344 rats have decreased hexosaminidase activity. Pretlow TP, et al. **Am J Pathol** 1990 Jan;136(1):13–6

The colonic pathology of Escherichia coli 0157:H7 infection. Kelly J, et al. **Am J Surg Pathol** 1990 Jan;14(1):87–92

Ulcerative colitis and Crohn's disease of the colon. Is there a macroscopic difference? Palnaes Hansen C, et al. **Ann Chir Gynaecol** 1990;79(2):78–81

Sodium polystyrene-sorbitol enemas [letter; comment] Burnett RJ. **Ann Intern Med** 1990 Feb 15;112(4):311–2 Comment on: Ann Intern Med 1989 Dec 1;111(11):947–9.

Cleansing enemas after sodium polystyrene sulfonate enemas [letter] Shepard KV. **Ann Intern Med** 1990 May 1; 112(9):711

Colonic necrosis with Kayexalate-sorbitol enemas after renal transplantation [see comments] Wootton FT, et al. **Ann Intern Med** 1989 Dec 1;111(11):947–9 Comment in: Ann Intern Med 1990 Feb 15;112(4):311–2.

Growth-related enzyme activities in crypt compartments during rat colon carcinogenesis. Lamprecht SA, et al. **Anticancer Res** 1990 May-Jun;10(3):773–8

The effect of iron on experimental colorectal carcinogenesis. Nelson RL, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1477–82

Inhibition of 1,2-dimethylhydrazine-induced nuclear damage in rat colonic epithelium by chlorophyllin. Robins EW, et al. **Anticancer Res** 1989 Jul-Aug;9(4):981–5

A rapid and simple in vitro method for evaluating human colorectal epithelial proliferation. Darmon E, et al. **Arch Pathol Lab Med** 1990 Aug;114(8):855–7

Transitional mucosa of colon. A morphological, histochemical, and immunohistochemical study. Robey-Cafferty SS, et al. **Arch Pathol Lab Med** 1990 Jan; 114(1):72–5

On the clonal origin of tumours—lessons from studies of intestinal epithelium. Schmidt GH, et al. **Bioessays** 1990 Jan;12(1):37–40 (16 ref.)

Three cases of gangrenous ischaemic colitis. Haleem MA. **Br J Clin Pract** 1989 Jan;43(1):41–2

Quantitative cytochemical detection of malignant and potentially malignant cells in the colon. Best AJ, et al. **Cancer Res** 1990 Aug 15;50(16):5112–8

Karyometric marker features in normal-appearing glands adjacent to human colonic adenocarcinoma. Bibbo M, et al. **Cancer Res** 1990 Jan 1;50(1):147–51

Effect of a calcium-enriched diet on the colonic epithelial hyperproliferation induced by N-methyl-N'-nitro-N-nitrosoguanidine in rats on a low calcium and fat diet. Reshef R, et al. **Cancer Res** 1990 Mar 15;50(6):1764–7

The colon. Gelfand D. **Curr Opin Radiol** 1990 Jun; 2(3):407–12 (27 ref.)

Restoration of colorectal continuity reverses atrophy in human rectal mucosa. Deruyter L, et al. **Dig Dis Sci** 1990 Apr;35(4):488–94

Dysplasia and cancer complicating strictures in ulcerative colitis. Lashner BA, et al. **Dig Dis Sci** 1990 Mar; 35(3):349–52

Microscopic colitis, collagenous colitis, and mast cells [letter] Molas GJ, et al. **Dig Dis Sci** 1990 Jul;35(7):920–1

DNA content and mucosal dysplasia in ulcerative colitis. Flow cytometric analysis in patients with dysplastic or indefinite morphologic changes in the colorectal mucosa. Rutegård J, et al. **Dis Colon Rectum** 1989 Dec; 32(12):1055–9

Endoscopic appearance of the colon and small intestine of a patient with hemorrhagic enteric graft-vs.-host disease. Saito H, et al. **Dis Colon Rectum** 1990 Aug;33(8):695–7

Segmental dilatation of the colon. Report of a case and review of the literature. al-Salem AH, et al. **Dis Colon Rectum** 1990 Jun;33(6):515–8 (20 ref.)

Ileocolonoscopy in patients with spondylarthritis and/or asymmetric oligoarthritis [letter; comment] Bedert LC, et al. **Gastroenterology** 1990 Apr;98(4):1105–6 Comment on: Gastroenterology 1989 Feb;96(2 Pt 1):339–44.

Escherichia coli 0157:H7-associated colitis. A clinical and histological study of 11 cases. Griffin PM, et al. **Gastroenterology** 1990 Jul;99(1):142–9

Colonoscopic surveillance in long-standing total ulcerative colitis—a 15-year follow-up study. Löfberg R, et al. **Gastroenterology** 1990 Oct;99(4):1021–31

The National Polyp Study. Patient and polyp characteristics associated with high-grade dysplasia in colorectal adenomas. O'Brien MJ, et al. **Gastroenterology** 1990 Feb; 98(2):371–9

Endoscopic features of villous tumors of the colon: correlation with histological findings. Iida M, et al. **Hepatogastroenterology** 1990 Jun;37(3):342–4

Proliferation rate of colonic mucosa in normal subjects and patients with colonic neoplasms: a refined immunohistochemical method. Welberg JW, et al. **J Clin Pathol** 1990 Jun;43(6):453–6

Pneumatosis cystoides intestinalis and intramural intestinal gas. Keene JG. **J Emerg Med** 1989 Nov-Dec;7(6):645–50 (31 ref.)

Sono-enterocolonography by oral water administration. Hirooka N, et al. **JCU** 1989 Oct;17(8):585–9

Sonographic features of colonic Crohn's disease: comparison of in vivo and in vitro studies. Limberg B. **JCU** 1990 Mar-Apr;18(3):161–6

Measurement of the proliferative status of colonic epithelium as a risk marker for colon carcinogenesis: effect of bile acid and dietary fiber. Robblee NM, et al. **Nutr Cancer** 1989;12(4):301–10

The immunopathology of Schistosoma mansoni granulomas in human colonic schistosomiasis. Geboes K, et al. **Virchows Arch [A]** 1990;416(6):527–34

Colonic mucosal changes in nude mice associated with orthotopic xenografts of human colon cancer cells. Sekikawa K, et al. **Virchows Arch [A]** 1990;416(5):393–6

Erosive colitis in experimental canine Leishmaniasis. González JL, et al. **Zentralbl Veterinarmed [B]** 1990 Jul; 37(5):377–82

[Cytologic examination of colonic hypertrophic lesions using ultrasound-guided fine-needle aspiration] Luo FC. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;69(11):639–41 (Chi)

[Activity of mucosubstances and the goblet cell count in the large intestine of piglets infected with the coccidium, Isospora suis] Kudweis M, et al. **Vet Med (Praha)** 1990 Jan;35(1):21–9 (Eng. Abstr.) (Cze)

[Ischemic colitis: viewpoint of the anatomo-pathologist] Balaton AJ. **Ann Gastroenterol Hepatol (Paris)** 1990 Jan-Feb;26(1):17–8; discussion 19 (Fre)

[Collagen colitis. Reflections apropos of 40 patients] Pierrugues R, et al. **Gastroenterol Clin Biol** 1989 Oct; 13(10):811–5 (Eng. Abstr.) (Fre)

[Etiology of "microscopic colitis" (letter)] Bielefeldt K, et al. **Dtsch Med Wochenschr** 1989 Dec 8;114(49):1940–1 (Ger)

[Acute ischemic myelomalacia and colon necrosis in infrarenal aortic aneurysm] Lang W, et al. **Dtsch Med Wochenschr** 1990 Jan 12;115(2):57–62 (Eng. Abstr.) **(Ger)**

[A clinicopathological study on colonic carcinomas arising from right side colon] Don XX, et al. **Gan No Rinsho** 1989 Oct;35(12):1421–8 (Eng. Abstr.) **(Jpn)**

[Prominent leukemic infiltration in the lower gastrointestinal tract in a patient with chronic myelogenous leukemia (CML)] Iida S, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):850–1 **(Jpn)**

[Development of metachronous tumors of the colon] Strekalovskiĭ VP, et al. **Klin Med (Mosk)** 1990 Jan; 68(1):95–100 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Sufficient fermentation and rapid passage of digesta. A problem of adaptation in the hindgut. Björnhag G. **Acta Vet Scand Suppl** 1989;86:204–11 (31 ref.)

The link between colon fermentation and systemic disease [comment] Jenkins DJ. **Am J Gastroenterol** 1989 Nov; 84(11):1362–4 Comment on: Am J Gastroenterol 1989 Nov;84(11):1365–70.

Pacemaker activity recorded in interstitial cells of Cajal of the gastrointestinal tract. Barajas-López C, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):C830–5

Low-dose glucocorticoids stimulate electroneutral NaCl absorption in rat colon. Bastl CP, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):F1027–38

Effects of tetrodotoxin on chloride secretion in rabbit distal colon: tissue and cellular studies. Biagi B, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G223–30

Hypertonic fluid absorption from rabbit descending colon in vitro. Bleakman D, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G377–90

Comparison of the effects of leukotrienes B4 and D4 on distal colonic motility in the rabbit in vivo. Burakoff R, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G860–4

Effects of PGF2 alpha and of indomethacin on rabbit small and large intestinal motility in vivo. Burakoff R, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G231–7

Effects of ouabain on background and voltage-dependent currents in canine colonic myocytes. Burke EP, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):C402–8

NaCl transport across equine proximal colon and the effect of endogenous prostanoids. Clarke LL, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G62–9

Pathways of slow-wave propagation in proximal colon of cats. Conklin JL, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):G894–903

Intracellular pH and membrane potassium conductance in rabbit distal colon. Duffey ME, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):C336–43

Base secretion in rat distal colon: ionic requirements. Feldman GM, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):G825–32

Colonic motor response to eating [letter] Fioramonti J, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G155–6

Contribution of Cl(-)–OH- exchange to electroneutral NaCl absorption in rat distal colon. Foster ES, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G261–7

Effects of morphine on colonic myoelectric and motor activity in subhuman primates. Frantzides CT, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G247–52

Mechanical aspects of rabbit fecal dehydration. McKie AT, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G391–4

Differential modulation of Ca2(+)-activated K+ channels by substance P. Mayer EA, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 1):G887–97

Postnatal development of colonic electrolyte transport in rabbits. O'Loughlin EV, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G447–53

Transit of solids through the human colon: regional quantification in the unprepared bowel. Proano M, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):G856–62

Ileocecal sphincter contraction to colonic distension: a tachykinin-mediated spinal reflex. Rothstein RD, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):G585–90

Electrical and mechanical interactions between the muscle layers of canine proximal colon. Sabourin PJ, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G484–91

Slow waves actively propagate at submucosal surface of circular layer in canine colon. Sanders KM, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G258–63

Colonic motor response to a meal in dogs. Sarna SK, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G830–5

Prolonged ambulant monitoring of human colonic motility. Soffer EE, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):G601–6

Aldosterone and glucocorticoid receptor-specific agonists regulate ion transport in rat proximal colon. Turnamian SG, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G492–8

H2 receptors mediate cyclical chloride secretion in guinea pig distal colon. Wang YZ, et al. **Am J Physiol** 1990 Jun; 258(6 Pt 1):G887–93

Histamine augments colonic secretion in guinea pig distal colon. Wang YZ, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G432–9

Pacemaker activity in septal structures of canine colonic circular muscle. Ward SM, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 1):G264–73

Myoelectric activity of the ileum, cecum, and right ventral colon in ponies during interdigestive, nonfeeding, and digestive periods. Ross MW, et al. **Am J Vet Res** 1990 Apr;51(4):561–6

Quinine inhibits chloride and nonselective cation channels in isolated rat distal colon cells. Gögelein H, et al. **Biochim Biophys Acta** 1990 Aug 24;1027(2):191–8

Effect of defunction on cytokinetics and cancer at colonic suture lines. Appleton GV, et al. **Br J Surg** 1990 Jul; 77(7):768–72

Intramural pH: a quantitative measurement for predicting colorectal anastomotic healing [published erratum appears in Dis Colon Rectum 1990 Jul;33(7):632] Senagore A, et al. **Dis Colon Rectum** 1990 Mar;33(3):175–9

Anastomotic healing after resection of left-colon stenosis: effect on collagen metabolism and anastomotic strength. An experimental study in the rat. Törnqvist A, et al. **Dis Colon Rectum** 1990 Mar;33(3):217–21

Distension-induced secretion in the rat colon: mediation by prostaglandins and submucosal neurons. Diener M, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):47–57

Failure of (+)-naloxone to accelerate feline colonic transit. Krevsky B, et al. **Experientia** 1990 Feb 15;46(2):217–9

Effects of stimulation of vesical afferents on colonic motility in cats. Bouvier M, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1148–54

Effects of liquid versus solid diet on colonic transit in humans. Evaluation by standard colonic transit scintigraphy. Kaufman PN, et al. **Gastroenterology** 1990 Jan;98(1):73–81

Is the human colon an endocrine organ? Moxey PC. **Gastroenterology** 1978 Jul;75(1):147–9

Colonic capacitance and transit in man: modulation by luminal contents and drugs. Kamath PS, et al. **Gut** 1990 Apr;31(4):443–9

Simultaneous measurement of electrical activity from two colonic smooth muscle layers using a dual sucrose gap apparatus. Sabourin PJ, et al. **IEEE Trans Biomed Eng** 1990 May;37(5):509–14

Origin of slow waves in the isolated proximal colon of the cat. Du CA, et al. **J Auton Nerv Syst** 1989 Nov;28(2):167–77

Remote Control Systems' Radiotelemetry Receiver 7060: its use in clinical colonic motility measurement. Thorburn HA, et al. **J Med Eng Technol** 1989 Sep–Oct;13(5):252–6

Action potentials and membrane currents of isolated single smooth muscle cells of cat and rabbit colon. Bielefeld DR, et al. **Pflugers Arch** 1990 Mar;415(6):678–87

Time-dependent effects of aldosterone on sodium transport and cell membrane resistances in rabbit distal colon. Hoffmann B, et al. **Pflugers Arch** 1989 Nov;415(2):156–64

Resistance to acid of canine kidney (MDCK) and human colonic (T84) and ileo-caecal (HCT-8) adenocarcinoma epithelial cell monolayers in vitro. Chan AB, et al. **Q J Exp Physiol** 1989 Jul;74(4):553–6

Liquid flow and capacity of the caecum and colon of the horse. Simmons HA, et al. **Res Vet Sci** 1990 Mar; 48(2):265–6

Enteric function in cats after subtotal colectomy for treatment of megacolon. Gregory CR, et al. **Vet Surg** 1990 May–Jun;19(3):216–20

[Experimental study on continuity of colonic motility in conscious fasting dogs] Ishikawa H, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Oct;25(5):229–31 **(Jpn)**

[Study of human colonic motility and secretion during mechanical stimulation by recording the intraluminal pressure and potential difference] Itasaka T, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Oct;25(5):195–8 **(Jpn)**

[Diurnal changes in colonic motility in conscious dogs] Matsushima Y, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Apr;25(2):47–54 (Eng. Abstr.) **(Jpn)**

[Studies on colonic motor correlates of spontaneous defecation in conscious dogs] Matsushima Y. **Nippon Heikatsukin Gakkai Zasshi** 1989 Aug;25(4):137–46 (Eng. Abstr.) **(Jpn)**

[Motility of the colon: electric and manometric description of the mass movement] García Olmo D, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):113–9 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Cold-restraint stress increases rat fecal pellet output and colonic transit. Barone FC, et al. **Am J Physiol** 1990 Mar; 258(3 Pt 1):G329–37

Response to faecal challenge in defunctioned colonic Crohn's disease: prediction of long-term course. Fasoli R, et al. **Br J Surg** 1990 Jun;77(6):616–7

Strength of the colon wall in diverticular disease. Watters DA, et al. **Br J Surg** 1990 Mar;77(3):257–9 (34 ref.)

Slow transit of the colon associated with severe constipation after the Ripstein operation. A clinical and physiologic study. Dolk A, et al. **Dis Colon Rectum** 1990 Sep; 33(9):786–90

Constipation and fecal incontinence in the elderly. Wald A. **Gastroenterol Clin North Am** 1990 Jun;19(2):405–18 (52 ref.)

Postprandial colonic transit and motor activity in chronic constipation. Bazzocchi G, et al. **Gastroenterology** 1990 Mar;98(3):686–93

Ileocolonic transfer of solid chyme in small intestinal neuropathies and myopathies. Greydanus MP, et al. **Gastroenterology** 1990 Jul;99(1):158–64

Mechanical properties of obstructed colon in a Hirschsprung's model. Hillemeier C, et al. **Gastroenterology** 1990 Oct;99(4):995–1000

Colonic transit in spinal cord-injured patients. Nino-Murcia M, et al. **Invest Radiol** 1990 Feb;25(2):109–12

Motility effects of anterior resection of the rectum performed for diverticular disease. Cortesini C, et al. **Ital J Surg Sci** 1989;19(4):369–73

Colonic hydrogen production in infants with colic [see comments] Hyams JS, et al. **J Pediatr** 1989 Oct; 115(4):592–4 Comment in: J Pediatr 1990 May;116(5):837–8.

Irritable bowel syndrome [letter; comment] Campbell J. **J R Soc Med** 1990 Mar;83(3):198 Comment on: J R Soc Med 1989 Oct;82(10):613–4.

Myoelectric and manometric patterns of human rectosigmoid colon in irritable bowel syndrome and diverticulosis. Katschinski M, et al. **Scand J Gastroenterol** 1990 Jul; 25(7):761–8

[Care and rehabilitation of colostomized patients] Di Mauro S, et al. **Ann Ital Chir** 1989 Sep–Oct;60(5):423–7 (10 ref.) (Eng. Abstr.) **(Ita)**

[Effects of stress on colon in the canine] Ochiai T. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr;87(4):965–72 (Eng. Abstr.) **(Jpn)**

[Functional state of the cecal–colonic regulatory system in idiopathic megacolon] Iaremchuk AIa, et al. **Klin Khir** 1990;(2):60 **(Rus)**

[A new method of diagnosis of functional megacolon] Sitkovskiĭ NB, et al. **Vestn Khir** 1989 Nov;143(11):128–9 **(Rus)**

RADIATION EFFECTS

Continuous laser radiation effect at 1.06 microns on gastrointestinal tract. Korolyov VA, et al. **Lasers Surg Med** 1990;10(2):185–8

[Enteral tube feeding using Cosilat in the complex therapy of patients with late radiation injuries of the colon] Sloventantor VJ, et al. **Radiobiol Radiother (Berl)** 1990; 31(1):93–6 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Double-contrast enema: a simplified method for filling the colon [see comments] Gelfand DW, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):279–80 Comment in: AJR Am J Roentgenol 1990 Jul;155(1):195.

Pumps in double-contrast enemas [letter; comment] Hall FM. **AJR Am J Roentgenol** 1990 Jul;155(1):195 Comment on: AJR Am J Roentgenol 1990 Feb;154(2):279–80.

"Jejunized colon" in a patient with colonic carcinoid [letter] Li KC, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1314

Epigastric hernia and perforation during air-contrast barium examinations [letter] Rai AM, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):420

Tenia coli on double-contrast studies [letter] Shah P, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):1100–1

CT demonstration of ingested cocaine packets [letter] Vanarthos WJ, et al. **AJR Am J Roentgenol** 1990 Aug; 155(2):419–20

Peroral pneumo colon—a double contrast technique to evaluate distal ileum and proximal colon. Mittal A, et al. **Australas Radiol** 1990 Feb;34(1):72–4

Radiological appearances of colonic ring staple anastomoses [letter; comment] Chan TY, et al. **Br J Radiol** 1989 Nov; 62(743):1034 Comment on: Br J Radiol 1989 Mar;62(735):256–9.

Cytomegalovirus infection masquerading as colonic neoplasia. Lewis-Jones HG, et al. **Br J Radiol** 1990 Jul; 63(751):573–4

Diverting ileostomy for colonic Crohn's disease. Part 2: Radiological findings in the colon following diversion. Friedland GW, et al. **Clin Radiol** 1973 Oct;24(4):435–9

Diverting ileostomy for colonic Crohn's disease. Part I: Significance of ulcers 5 mm in depth or deeper on the preoperative barium enema. Friedland GW, et al. **Clin Radiol** 1973 Oct;24(4):427–34

A study of the variation of colonic positioning in the pararenal space as shown by computed tomography. Prassopoulos P, et al. **Eur J Radiol** 1990 Jan–Feb;10(1):44–7

Computed tomography of the large bowel and appendix. Johnson CD, et al. **Mayo Clin Proc** 1989 Oct; 64(10):1276–83 (27 ref.)

Lymphoid follicular hyperplasia in excluded colonic segments: a radiologic sign of diversion colitis. Lechner GL, et al. **Radiology** 1990 Jul;176(1):135–6

Air-contrast barium enema studies after flexible proctosigmoidoscopy: randomized controlled clinical trial. Marshall JB, et al. **Radiology** 1990 Aug;176(2):549–51

[Comment on the paper "Initial experiences with the mechanically controlled colon contrast enema"] Petrik R. **Radiol Diagn (Berl)** 1990;31(1):87–9 **(Ger)**

[A comparative study of methods of preparing the colon for a double-contrast study: Prepacol versus ricinus capsules with a cleansing enema] Mundinger A, et al. **Radiologe** 1990 Jan;30(1):34–8 (Eng. Abstr.) **(Ger)**

[Colonic contrast enema in digital luminescent radiography (DLR) and conventional x-ray technic] Krug B, et al. **ROFO** 1990 Feb;152(2):131–6 (Eng. Abstr.) **(Ger)**

[Perfected, professional body-packing] Wehr K, et al. **Z Rechtsmed** 1989;103(1):63–8 (Eng. Abstr.) **(Ger)**

[Possibility of radiology in the study of defection disorders] Sandrone M, et al. **Minerva Chir** 1989 Sep 15;44(17):1911–6 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

New etiology for intestinal uptake of thallium-201. Morrison M, et al. **Clin Nucl Med** 1989 Oct;14(10):764–6

Retrograde spread of therapeutic enemas in patients with inflammatory bowel disease. van Buul MM, et al. **Hepatogastroenterology** 1989 Aug;36(4):199–201

Use of transcolonic 99mtechnetium-pertechnetate as a screening test for portoasystemic shunts in dogs. Koblik PD, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):925–30

Colon transit scintigraphy in health and constipation using oral iodine-131-cellulose. McLean RG, et al. **J Nucl Med** 1990 Jun;31(6):985–9

SECRETION

Pirenzepine as anti-inflammatory drug in a model of experimental colitis in rat. Bustos-Fernández L, et al. **Acta Physiol Pharmacol Latinoam** 1987;37(4):415–22

Cholinergic-mediated secretion in the rat colon: neuronal and epithelial muscarinic responses. Diener M, et al. **Eur J Pharmacol** 1989 Sep 13;168(2):219–29

Tachykinin-induced anion secretion in guinea pig distal colon: role of neural and inflammatory mediators. Kuwahara A, et al. **J Pharmacol Exp Ther** 1990 Jan; 252(1):1–7

SURGERY

Changes in the connective tissue composition of the submucosal layer of colonic anastomosis. An immunohistologic study in rats. Brasken P, et al. **Acta Chir Scand** 1989 Aug;155(8):413–9

Colo-anal sleeve resection for rectal hemangioma. Case report. Luukkonen P, et al. **Acta Chir Scand** 1989 Nov-Dec; 155(11-12):613–6

Colonic anastomosis in calves: an experimental study. Singh H, et al. **Acta Vet Hung** 1989;37(1-2):167–77

Clinical application of a new compression anastomotic device for colorectal surgery. Rebuffat C, et al. **Am J Surg** 1990 Mar;159(3):330–5

Alteration in intestinal morphologic features associated with extensive large-colon resection in horses. Bertone AL, et al. **Am J Vet Res** 1990 Sep;51(9):1471–5

A new technique for sutureless intestinal anastomosis. A prospective, randomized, clinical trial. Dyess DL, et al. **Am Surg** 1990 Feb;56(2):71–5

Fibronectin, laminin, and collagen types I, III, IV and V in the healing rat colon anastomosis [see comments] Brasken P, et al. **Ann Chir Gynaecol** 1990;79(2):65–71 Comment in: Ann Chir Gynaecol 1990;79(2):63–4.

Intraoperative testing of the integrity of left-sided colorectal anastomoses: a technique of value to the surgeon in training [letter] Barker SG, et al. **Ann R Coll Surg Engl** 1989 Sep; 71(5):338

Intraoperative testing of the integrity of left-sided colorectal anastomoses: a technique of value to the surgeon in training [letter] Dickson GH. **Ann R Coll Surg Engl** 1990 Jan; 72(1):66

Antibiotics in colorectal surgery. Eykyn SJ. **Ann R Coll Surg Engl** 1990 May;72(3):163–4 (7 ref.)

Esophagocoloplasty in the management of postcorrosive strictures of the esophagus. Gerzic ZB, et al. **Ann Surg** 1990 Mar;211(3):329–36

The double stapling technique for low anterior resection. Results, modifications, and observations. Griffen FD, et al. **Ann Surg** 1990 Jun;211(6):745–51; discussion 751–2

Tissue plasminogen activator reverses the deleterious effect of infection on colonic wound healing. Houston KA, et al. **Ann Surg** 1990 Feb;211(2):130–5

Addition of parenteral cefoxitin to regimen of oral antibiotics for elective colorectal operations. A randomized prospective study. Schoetz DJ Jr, et al. **Ann Surg** 1990 Aug;212(2):209–12

Ciprofloxacin concentrations and impact of the colon microflora in patients undergoing colorectal surgery. Brismar B, et al. **Antimicrob Agents Chemother** 1990 Mar; 34(3):481–3

Experimental colonic anastomosis in bovines—and angiographic study. Singh H, et al. **Arch Exp Veterinarmed** 1989;43(4):559–66

Single dose prophylaxis in colonic surgery [letter; comment] **BMJ** 1990 Feb 17;300(6722):464 Comment on: BMJ 1990 Jan 6;300(6716):18–22.

Single dose cefotaxime plus metronidazole versus three dose cefuroxime plus metronidazole as prophylaxis against wound infection in colorectal surgery: multicentre prospective randomised study [see comments] Rowe-Jones DC, et al. **BMJ** 1990 Jan 6;300(6716):18–22 Comment in: BMJ 1990 Feb 17;300(6722):464.

Peroperative nitrous oxide delays bowel function after colonic surgery. Scheinin B, et al. **Br J Anaesth** 1990 Feb; 64(2):154–8

Epidural analgesia in colonic surgery: results of a randomized prospective study. Bredtmann RD, et al. **Br J Surg** 1990 Jun;77(6):638–42

Restorative proctocolectomy without temporary ileostomy. Everett WG, et al. **Br J Surg** 1990 Jun;77(6):621–2

Peroperative observation of marginal artery bleeding; a predictor of anastomotic leakage [letter] Grace R. **Br J Surg** 1990 Jun;77(6):714

Comparison of one dose versus three doses of prophylactic antibiotics, and the influence of blood transfusion, on infectious complications in acute and elective colorectal surgery. Jensen LS, et al. **Br J Surg** 1990 May;77(5):513–8

The long-term sequelae of ileocolic anastomosis in childhood: a retrospective survey. Parashar K, et al. **Br J Surg** 1990 Jun;77(6):645–6

Sutured posterior abdominal rectopexy with sigmoidectomy compared with Marlex rectopexy for rectal prolapse. Sayfan J, et al. **Br J Surg** 1990 Feb;77(2):143–5

Extramucosal endorectal pull through. Soave F. **Curr Probl Surg** 1978 Jun;15(6):77–93 (11 ref.)

Ciprofloxacin as single-dose antibiotic prophylaxis in colorectal surgery. Results of a randomized, double-blind trial. Görtz G, et al. **Diagn Microbiol Infect Dis** 1990 Mar-Apr;13(2):181–5

A comparison of single-dose systemic Timentin with mezlocillin for prophylaxis of wound infection in elective colorectal surgery. University of Melbourne Colorectal Group. **Dis Colon Rectum** 1989 Nov;32(11):940–3

The entrapped EEA stapler. Backing out with ease. Adams DB. **Dis Colon Rectum** 1989 Nov;32(11):998–9

Proctectomy and coloanal reconstruction for rectal cancer. Cohen AM, et al. **Dis Colon Rectum** 1990 Jan;33(1):40–3

Experience with the biofragmentable anastomotic ring (BAR) in bowel preoperatively irradiated with 6000 rad. Croston JK, et al. **Dis Colon Rectum** 1990 Mar;33(3):222–6

Instrument for dilatation of stenotic colorectal anastomosis. Duce AM, et al. **Dis Colon Rectum** 1990 Feb;33(2):160–1

Simple method for stapled low colorectal or coloanal anastomosis. Illuminati G, et al. **Dis Colon Rectum** 1990 Apr;33(4):351–2

The triple-stapled colonic anastomosis. Julian TB, et al. **Dis Colon Rectum** 1989 Nov;32(11):989–95

An adapter for stapling of a colorectal anastomosis. Kumashiro R, et al. **Dis Colon Rectum** 1990 Mar; 33(3):243–4

Anastomotic compression button: a new mechanical device for sutureless bowel anastomosis. Malthaner RA, et al. **Dis Colon Rectum** 1990 Apr;33(4):291–7

Ileostomy using an interposed ileal segment to function as a 'neocolon'. Nakahara S, et al. **Dis Colon Rectum** 1990 Jun;33(6):463–8

Colonic anastomotic leakages [letter] Ravo B. **Dis Colon Rectum** 1990 Feb;33(2):168–9

Clean sweep of the colon. The use of intraoperative colonoscopy. Saclarides TJ, et al. **Dis Colon Rectum** 1989 Oct;32(10):864–6

Prophylactic ureteric catheters in colon surgery—how safe are they? Report of three cases. Sheikh FA, et al. **Dis Colon Rectum** 1990 Jun;33(6):508–10

The effect of prostaglandin E1 on colonic anastomotic healing. A comparison study. Terzioglu T, et al. **Dis Colon Rectum** 1990 Jan;33(1):44–8

Revised model for the study of colonic anastomotic healing in protein malnourished rats. Law NW, et al. **Eur Surg Res** 1989;21(3-4):218–23

Piroxicam affects collagen changes around experimental intestinal anastomoses. Mastboom WJ, et al. **Eur Surg Res** 1989;21(6):305–12

1,2-Dimethylhydrazine-induced carcinogenesis influenced by different colonic anastomoses in rats. Rokitansky A, et al. **Eur Surg Res** 1989;21(3-4):184–9

Eicosanoid profile of healing colon anastomosis and peritoneal macrophages in the rat. van der Ham AC, et al. **Gut** 1990 Jul;31(7):807–11

Rectal J pouch reservoir to decrease the frequency of tenesmus and defecation in low coloproctostomy. Wheeless CR Jr, et al. **Gynecol Oncol** 1989 Nov;35(2):136–8

A comparative study of polydioxanone (PDS) and polyglactin 910 (Vicryl) in colonic anastomoses in rats. Andersen E, et al. **Int J Colorectal Dis** 1989 Dec;4(4):251–4

A retrospective study of colostomies, leaks and strictures after colorectal anastomosis. Tuson JR, et al. **Int J Colorectal Dis** 1990 Feb;5(1):44–8

Combined colonic and biliary surgery: assessment of risk in elderly patients. Michel LA, et al. **Int Surg** 1989 Oct-Dec; 74(4):244–6

Augmentation of existing ileal and colonic conduits and stomal revision. Ramon J, et al. **Isr J Med Sci** 1990 Jul; 26(7):395–8

A randomized trial to compare amoxycillin/clavulanate with metronidazole plus gentamicin in prophylaxis in elective colorectal surgery. Hall C, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:195–202

A comparison of aztreonam/metronidazole and cefotaxime/metronidazole in elective colorectal surgery: antimicrobial prophylaxis must include gram-positive cover. Morris DL, et al. **J Antimicrob Chemother** 1990 Apr; 25(4):673–8

Comparative multicenter study on efficacy and safety of aztreonam and gentamicin in prophylaxis of high-risk colorectal surgery. Dionigi R, et al. **J Chemother** 1989 May; 1 Suppl 2:22–7

Colonic interposition after esophagogastrectomy in a child with Zollinger-Ellison syndrome [see comments] Furuta GT, et al. **J Pediatr Surg** 1989 Nov;24(11):1146–8 Comment in: J Pediatr Surg 1990 May;25(5):585.

Excellent surgical result in a difficult problem [letter; comment] Shaw A. **J Pediatr Surg** 1990 May;25(5):585 Comment on: J Pediatr Surg 1989 Nov;24(11):1146–8.

Acquired aganglionosis: a rare occurrence following pull-through procedures for Hirschsprung's disease. West KW, et al. **J Pediatr Surg** 1990 Jan;25(1):104–8; discussion 108–9

Bowel preparation or not for elective colorectal surgery. Duthie GS, et al. **J R Coll Surg Edinb** 1990 Jun;35(3):169–71

Intraoperative testing of anastomotic integrity after stapled anterior resection for cancer. Griffith CD, et al. **J R Coll Surg Edinb** 1990 Apr;35(2):106–8

Prospective comparative study of cefotetan with piperacillin for prophylaxis against infection in elective colorectal surgery. Hershman MJ, et al. **J R Coll Surg Edinb** 1990 Feb;35(1):29–32

Is a drain necessary after colonic anastomosis? Johnson CD, et al. **J R Soc Med** 1989 Nov;82(11):661–4

Experimental studies on the healing of colonic anastomoses. Koruda MJ, et al. **J Surg Res** 1990 May;48(5):504–15 (94 ref.)

Nontunneled ureterocolonic anastomosis: an alternate to the tunneled implantation. Bejany D, et al. **J Urol** 1989 Oct; 142(4):961–3

Urinary solute transport by intestinal segments: a comparative study of ileum and colon in rats. Koch MO, et al. **J Urol** 1990 Jun;143(6):1275–9

Effect of early postoperative nutritional support on skin wound and colon anastomosis healing. Delany HM, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul-Aug;14(4):357–61

Feeding the rat intravenously with ketone bodies following colon anastomosis. Nagayama M, et al. **JPEN J Parenter Enteral Nutr** 1990 May-Jun;14(3):245–9

Total replacement of the bladder with an intestinal pouch for normal micturition after cystectomy. Kakizoe T, et al. **Jpn J Clin Oncol** 1989 Sep;19(3):276–82

Sutureless colonic anastomoses. Zederfeldt B, et al. **Langenbecks Arch Chir** 1990;375(3):181–5

Deep anterior resection with circular stapled anastomosis of congenital megacolon: clinical results. Dohrmann P, et al. **Prog Pediatr Surg** 1990;25:97–102

Motility of the anorectum after the Soave-Denda operation. Morikawa Y, et al. **Prog Pediatr Surg** 1989;24:67–76

Ileocolectomy enhances the regenerative response after partial hepatectomy in the pig. Kahn D, et al. **S Afr J Surg** 1990 Mar;28(1):11–3

Ceftriaxone as prophylaxis for elective abdominal and colorectal surgery. Studies in the Departments of Surgery at the Universities of the Orange Free State, Natal and Pretoria. Nel CJ. **S Afr J Surg** 1989 Sep;Suppl:6

Canine colonic anastomoses reinforced with dye-enhanced fibrinogen and a diode laser. Libutti SK, et al. **Surg Endosc** 1990;4(2):97–9

Endoscopic dilation of colonic postoperative strictures. Pietropaolo V, et al. **Surg Endosc** 1990;4(1):26–30

Doubled fourth-day colorectal anastomotic strength with complete retention of intestinal mature wound collagen and accelerated deposition following immediate full enteral nutrition. Greenstein A, et al. **Surg Forum** 1978;29:78–81

The construction and reconstruction of the vagina with the colocecum. Turner-Warwick R, et al. **Surg Gynecol Obstet** 1990 Feb;170(2):132–6

The effect of parenteral nutrition on the healing of abdominal wall wounds and colonic anastomoses in protein-malnourished rats. Law NW, et al. **Surgery** 1990 Apr;107(4):449–54

Colocalicostomy. A solution to an obliterated renal pelvis. Libby CE, et al. **Urology** 1990 Feb;35(2):171–4

[Simultaneous cholecystectomy with colon surgery] Tsai JD, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Apr;43(4):261–3 (Eng. Abstr.) **(Chi)**

[Colo-anal anastomosis, a strong competitor of preternatural anus] Verhagen PF. **Ned Tijdschr Geneeskd** 1990 May 12; 134(19):949–52 (Eng. Abstr.) **(Dut)**

[Single-stage excision anastomosis of left colonic obstruction excision treated as an emergency] Ambrosetti P, et al. **Chirurgie** 1989;115 Suppl 2:I–VII (Eng. Abstr.) **(Fre)**

[The left colon surgically treated as an emergency] Clotteau JE, et al. **Chirurgie** 1989;115 Suppl 2:130–2 **(Fre)**

[Colorectal anastomoses with a Steichen-type rectoplasty adapted by Dubois. Analysis of a series of 46 patients] Cubertafond P, et al. **Chirurgie** 1989;115(3):238–43; discussion 244 (Eng. Abstr.) **(Fre)**

[Conservative coloproctectomy: the advantages of a circular trans-suture staple anastomosis after linear stapling of the everted rectum. Preliminary results] Lehur PA, et al. **Chirurgie** 1989;115(6):387–92 (Eng. Abstr.) **(Fre)**

[Tissue penetration of single-dose cefotetan used for antibiotic prophylaxis in colorectal surgery] Martin C, et al. **Pathol Biol (Paris)** 1990 Jun;38(5 (Pt 2)):500–3 (Eng. Abstr.) **(Fre)**

[Colo-rectal anastomosis. Early postoperative course] Chazelet C, et al. **Presse Med** 1990 Mar 31;19(12):553–5 (Eng. Abstr.) **(Fre)**

[Study of gastric elimination of ornidazole after intravenous administration in patients undergoing digestive surgery] Diquet B, et al. **Therapie** 1990 Jul-Aug;45(4):307–10 (Eng. Abstr.) **(Fre)**

[Sutureless compression anastomosis of the distal colon and rectum. An expanded report of experiences with a total of 140 patients] Gross E, et al. **Chirurg** 1989 Sep; 60(9):589–93 (Eng. Abstr.) **(Ger)**

[Indications for primary anastomosis following resection of acute diverticulitis of the large intestine] Dinstl K, et al. **Zentralbl Chir** 1989;114(13):836–9 (Eng. Abstr.) **(Ger)**

[Optimal preparation of the colon for elective surgery. A personal proposal] Picardi N. **Ann Ital Chir** 1989; 60(3):157–62 (21 ref.) (Eng. Abstr.) **(Ita)**

[Pre- and postoperative management in experimental surgery:

our experience] Cotogni P, et al. **Chir Patol Sper** 1987 Apr; 35(2):49–58 (Eng. Abstr.) **(Ita)**

[Y–V plasty for the treatment of stenosis of cutaneous stomas] Chessa PP, et al. **Minerva Chir** 1990 Jan;45(1–2):45–6 (Eng. Abstr.) **(Ita)**

[Emergency surgical treatment of acute perforation of the colon] D'Agostino G, et al. **Minerva Chir** 1990 Feb; 45(3–4):145–6 (Eng. Abstr.) **(Ita)**

[Mechanical staplers in colorectal surgery] De Cesare A, et al. **Minerva Chir** 1990 Jun 15;45(11):765–71 (26 ref.) (Eng. Abstr.) **(Ita)**

[Antibiotic prophylaxis with sulbactam/ampicillin in colon surgery] Gui D, et al. **Minerva Chir** 1990 Apr 15; 45(7):499–502 (Eng. Abstr.) **(Ita)**

[Preventive antibiotics in elective colorectal surgery] Danielsen S, et al. **Nord Med** 1989;104(10):247–9, 255 (Eng. Abstr.) **(Nor)**

[Causes of unfavorable results of the surgical treatment of Hirschsprung disease in children] Atakulov DO, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):29–32 (Eng. Abstr.) **(Rus)**

[Unusual variants of proctoplasty in Hirschsprung disease] Chepurnoĭ GI, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):25–8 (Eng. Abstr.) **(Rus)**

[Formation of a smooth-muscle cuff around perineal colostomy after extirpation of the rectum] Fedorov VD, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):128–31 **(Rus)**

[Diagnosis and treatment of Hirschsprung disease in young children] Krivchenia DIu, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):33–6 (Eng. Abstr.) **(Rus)**

[Treatment of patients with postoperative fistulas of the colon] Zhabanovskiĭ VE, et al. **Khirurgiia (Mosk)** 1990 Feb; (2):119–23 (Eng. Abstr.) **(Rus)**

[Combined resection of the bladder and restoration of continuity of the large intestine after Hartmann's operation] Basheev VKh, et al. **Klin Khir** 1990;(2):63 **(Rus)**

[Restoration of intestinal continuity 12 years after subtotal colectomy] Mustiats AP, et al. **Klin Khir** 1990;(2):62 **(Rus)**

[Prevention and treatment of necrosis of the downward transposed intestine following abdomino-anal resection of cancer] Bondar' GV, et al. **Vestn Khir** 1989 Oct; 143(10):84–7 (Eng. Abstr.) **(Rus)**

[Left-side hemiproctocolectomy with inversion ileotransverso-anastomosis and lowering of the terminal segment of the ileum to the anal sphincter] Egiazarian VT, et al. **Vestn Khir** 1989 Nov;143(11):127–8 **(Rus)**

[Selection of the anastomosis in right-side hemicolectomy] Ivanov MA. **Vestn Khir** 1989 Jun;142(6):144–7 (44 ref.) **(Rus)**

[End-to-end anastomosis in right-sided hemicolectomy] Kariakin AM, et al. **Vestn Khir** 1989 Dec;144(12):21–6 (Eng. Abstr.) **(Rus)**

[Possibilities of the anterior extra-sphincter lowering of the colon (comparative characteristics of restorative surgery after resection of the rectum using the Hartmann method)] Sakhautdinov VG, et al. **Vestn Khir** 1990 Jan;144(1):115–8 (Eng. Abstr.) **(Rus)**

[A method of closing the colostomy to restore the continuity of the colon] Zinevich VP. **Vestn Khir** 1989 Aug; 144(8):140–2 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

Reconstruction with free bowel autografts after pharyngoesophageal or laryngopharyngoesophageal resection. Flynn MB, et al. **Am J Surg** 1989 Oct; 158(4):333–6

Long-term results of visceral esophageal substitutes. Hanna EA, et al. **Ann Thorac Surg** 1967 Feb;3(2):111–8

Reconstruction of the esophagus with the left colon. Huang MH, et al. **Ann Thorac Surg** 1989 Nov;48(5):660–4

Replacement of the esophagus by a segment of colon provided with an antireflux valve. Larsson S, et al. **Ann Thorac Surg** 1989 Nov;48(5):677–82

Coloplasty and free intestinal transplants in the treatment of extensive cancers of the pharyngo–oesophageal junction. Pessey JJ, et al. **Arch Otorhinolaryngol** 1989;246(5):384–7

Late perforation of a mediastinal oesophagocoloplasty. Bianchi A, et al. **Br J Surg** 1989 Sep;76(9):917

Colo-pericardial and colo-caval fistula. Late complication of colon interposition. Parmar JM, et al. **Eur J Cardiothorac Surg** 1989;3(4):371–2

Esophageal replacement in the dog by microvascular colon transfer. Kuzma AB, et al. **Vet Surg** 1989 Nov–Dec; 18(6):439–45

Further look at colon-patch oesophagoplasty in benign strictures of oesophagus in children. Mehrabi V, et al. **Z Kinderchir** 1989 Aug;44(4):221–7

[Long segment esophageal atresia and possibilities of esophageal replacement] Lochbühler H. **Monatsschr Kinderheilkd** 1990 Feb;138(2):50–5 (31 ref.) (Eng. Abstr.) **(Ger)**

[30-year experience with performing esophagoplasty using the large intestine] Zavgorodniĭ LG, et al. **Klin Khir** 1989; (10):27–9 (Eng. Abstr.) **(Rus)**

[Experimental plastic surgery of the cervical part of the esophagus using autologous free large-intestinal transplant] Zuev AS, et al. **Klin Khir** 1989;(10):33–5 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Comparison of osmium/sonication and EDTA/sonication microdissection techniques in exposing the adepithelial basal lamina surface of developing rat colon. McCarthy KJ, et al. **J Electron Microsc Tech** 1990 Apr;14(4):367–72

Rabbit distal colon epithelium: I. Isolation and characterization of basolateral plasma membrane vesicles from surface and crypt cells. Wiener H, et al. **J Membr Biol** 1989 Sep;110(2):147–62

COLON AND RECTAL SURGERY (SPECIALTY)

Current preoperative bowel cleansing methods. Results of a survey. Beck DE, et al. **Dis Colon Rectum** 1990 Jan; 33(1):12–5

The Moscow Institute of Proctology and the A.V. Vishnevsky Institute of Surgery [letter] Khubchandani IT. **Dis Colon Rectum** 1989 Nov;32(11):1001–2

Preoperative bowel preparation. A survey of colon and rectal surgeons. Solla JA, et al. **Dis Colon Rectum** 1990 Feb; 33(2):154–9 (41 ref.)

ASCRS Research Foundation comes of age [letter] Spaulding TG. **Dis Colon Rectum** 1990 Mar;33(3):259–60

Prophylactic antibiotics for colorectal surgery [letter] Lang SD. **N Z Med J** 1990 Mar 14;103(885):108–9

Auckland ceftriaxone prophylaxis trial [letter] Smith JM. **N Z Med J** 1990 Apr 11;103(887):164

EDUCATION

Residency training survey [letter] Khubchandani IT. **Dis Colon Rectum** 1990 Jan;33(1):83

Coloproctology teaching day in Colchester. Wilson JP. **J R Soc Med** 1990 Jul;83(7):474–5

HISTORY

[The past and future of proctology] Marti MC. **Schweiz Rundsch Med Prax** 1990 Jul 17;79(29–30):889–91 (Eng. Abstr.) **(Fre)**

INSTRUMENTATION

A new 'enterocompressor' to facilitate rectal anastomosis. Barraza RP. **Dis Colon Rectum** 1990 Feb;33(2):162–4

METHODS

[Surgical treatment of solitary rectal ulcer syndrome] Costalat G, et al. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):171–5 **(Fre)**

[Treatment of isolated rectal ulcer syndrome] Suduca P. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):167–9 (Eng. Abstr.) **(Fre)**

ORGANIZATION & ADMINISTRATION

[Sexually transmitted diseases and proctology: organization of the daily routine of specimen collection] Lemozy J. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):176–7 **(Fre)**

TRENDS

United we stand. Abcarian H. **Dis Colon Rectum** 1989 Dec; 32(12):1013–5

COLON, IRRITABLE see **COLONIC DISEASES, FUNCTIONAL**

COLONIALISM see **POLITICAL SYSTEMS**

COLONIC DISEASES

Spontaneous closure of benign duodenocolic fistula. Sikora SS, et al. **J Indian Med Assoc** 1989 Oct;87(10):242

[Nephro-colic fistula: a clinical case] Badiali G, et al. **G Chir** 1989 Jul–Aug;10(7–8):389–90 (Eng. Abstr.) **(Ita)**

[Ulcer of the ascending colon with fistula into the duodenum] Shmurun RI. **Klin Med (Mosk)** 1989 Sep;67(9):108–10 **(Rus)**

[Reno-colic fistula] Zabala-Egurrola JA, et al. **Arch Esp Urol** 1989 Jul–Aug;42(6):569–71 (Eng. Abstr.) **(Spa)**

BLOOD

[The content of middle molecules in the blood plasma of patients with proctologic diseases] Davtian OIa, et al. **Vrach Delo** 1989 Sep;(9):69–71 **(Rus)**

CHEMICALLY INDUCED

Nimodipine: evidence for clinically significant gastrointestinal side-effects. Hund E, et al. **Acta Neurochir (Wien)** 1990;102(1–2):73–5

Mebeverine-induced perforated colon in distal intestinal syndrome of cystic fibrosis [letter; comment] Hassan W, et al. **Lancet** 1990 May 19;335(8699):1225 Comment on: Lancet 1990 Mar 3;335(8688):552.

NSAIDs and gut damage [letter; comment] Sheers R, et al. **Lancet** 1989 Nov 11;2(8672):1154 Comment on: Lancet 1989 Sep 9;2(8663):600.

Colonic ulceration and bleeding during diclofenac therapy [letter] Carson J, et al. **N Engl J Med** 1990 Jul 12;323(2):135

[Validity of ano-rectal manometry in the diagnosis of cathartic colon as a cause of chronic pseudo-obstruction of the colon. Considerations on a case] Uggeri G, et al. **Ann Ital Chir** 1989;60(2):115–21; discussion 121–2 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Malacoplakia of the colon in association with colonic adenocarcinoma. Moran CA, et al. **Am J Gastroenterol** 1989 Dec;84(12):1580–2

Obstructed intestine as a reservoir for systemic infection. Deitch EA, et al. **Am J Surg** 1990 Apr;159(4):394–401

The triad of Streptococcus bovis bacteremia, colonic pathology, and liver disease. Zarkin BA, et al. **Ann Surg** 1990 Jun;211(6):786–91; discussion 791–2

Management of patients with intraabdominal infection due to colonic perforation. Tally FP, et al. **Curr Clin Top Infect Dis** 1987;8:266–95 (123 ref.)

Colo-pleural fistula. Olesen LL, et al. **Eur Respir J** 1989 Sep;2(8):792–3

Colonic disease in cirrhosis. An endoscopic evaluation in 412 patients. Rabinovitz M, et al. **Gastroenterology** 1990 Jul; 99(1):195–9

Neonatal colonic perforation with low anorectal anomaly—(a case report). Khope S, et al. **J Postgrad Med** 1989 Oct; 35(4):226–7

Colopleural fistula due to strangulated Bochdalek hernia in an adult. Sinha M, et al. **Thorax** 1989 Sep;44(9):762–3

[Recurrent sub-obstruction due to intermittent hiatal herniation of the transverse colon with intrathoracic stomach torsion] Janzing H, et al. **Acta Chir Belg** 1989 Nov–Dec;89(6):329–32 (Eng. Abstr.) **(Dut)**

[Severe lower gastrointestinal tract hemorrhage in adults. Apropos of 38 cases] Peillon C, et al. **J Chir (Paris)** 1989 Dec;126(12):687–94 (Eng. Abstr.) **(Fre)**

[Acute intestinal hemorrhage in a pancreatic pseudocyst-colic fistula] Triller J, et al. **ROFO** 1989 Nov; 151(5):527–31 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Colonic anisakiasis simulating carcinoma of the colon [letter] Shirahama M, et al. **AJR Am J Roentgenol** 1990 Oct; 155(4):895

Endoscopic examination of the colon and rectum distal to a colostomy. Haas PA, et al. **Am J Gastroenterol** 1990 Jul; 85(7):850–4

Clinical investigation of acute lower gastrointestinal haemorrhage. McMahon AJ, et al. **Br J Clin Pract** 1989 Sep;43(9):334–8

Pneumatosis coli: a source of diagnostic confusion. Spigelman AD, et al. **Br J Surg** 1990 Feb;77(2):155

Faecal occult blood testing in symptomatic patients: comparison of three tests. Tate JJ, et al. **Br J Surg** 1990 May;77(5):523–6

African histoplasmosis masquerading as carcinoma of the colon. Report of a case and review of literature. Khalil M, et al. **Dis Colon Rectum** 1989 Jun;32(6):518–20 (14 ref.)

Colorectal disease in spinal cord patients. An occult diagnosis. Longo WE, et al. **Dis Colon Rectum** 1990 Feb; 33(2):131–4

The colon in shigellosis: serial colonoscopic appearances in Shigella dysenteriae I. Khuroo MS, et al. **Endoscopy** 1990 Jan;22(1):35–8

Role of colonoscopy in gallstone ileus:—a case report. Patel SA, et al. **Endoscopy** 1989 Nov;21(6):291–2

Same-day versus separate-day sigmoidoscopy and double contrast barium enema: a randomized controlled study. Eckardt VF, et al. **Gastrointest Endosc** 1989 Nov–Dec; 35(6):512–5

The endoscopic diagnosis of colonic enterobiasis. Goldenberg SP, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):309–10

Acute cholecystocolic fistula detected by colonoscopy [letter] Sakurai Y, et al. **Gastrointest Endosc** 1990 Mar–Apr; 36(2):163–4

Diagnosis of rectal and colon disease by the primary care physician. Ferguson JA. **J Fla Med Assoc** 1989 Oct; 76(10):861–2

Intraluminal colonic calcifications associated with anorectal atresia. Prenatal sonographic detection. Grant T, et al. **J Ultrasound Med** 1990 Jul;9(7):411–3

Ultrasound in intussusception: a false cystic lead point. Kenney IJ. **Pediatr Radiol** 1990;20(5):348

Sigmoidoscopy in the practice. Evans P. **Practitioner** 1989 May 8;233(1468):679–80, 682–3

Transient functional obstruction of the colon in neonates: examination of its development by manometry and biopsies. Lassmann G, et al. **Prog Pediatr Surg** 1989;24:202–16

Adult intussusception with an appendiceal mucocele diagnosed by CT and ultrasonography. Takehara Y, et al. **Radiat Med** 1989 May–Jun;7(3):139–42

Proctologic management of the HIV-positive patient. Beck DE, et al. **South Med J** 1990 Aug;83(8):900–3

Colonoscopy in Jamaica—a 12-year experience. Lee MG, et al. **West Indian Med J** 1989 Dec;38(4):213–6

Paediatric colonoscopy—an experience of 102 cases. Tam PK. **Z Kinderchir** 1988 Sep;43 Suppl 1:60–1

[Contribution of coloscopy to the diagnosis and treatment of hemorrhage in the colorectal area] Smejkal K, et al. **Rozhl Chir** 1990 Apr;69(4):334–8 (Eng. Abstr.) **(Cze)**

[Megabladder. Microcolon. Prenatal ultrasonic diagnosis and a review of the literature. Apropos of a case] de

Vaux-Boitouzet V, et al.
J Gynecol Obstet Biol Reprod (Paris) 1990;19(3):327–32 (22 ref.) (Eng. Abstr.) (Fre)
[Abdominal echography in colonic diseases] Schmutz G, et al. **J Radiol** 1990 Feb;71(2):85–92 (Eng. Abstr.) (Fre)
[Colonoscopy: indications, procedure, results] Behrens R, et al. **Monatsschr Kinderheilkd** 1989 Dec;137(12):796–8 (Eng. Abstr.) (Ger)
[Idiopathic intussusception in adults] Kretzschmar U, et al. **Rontgenblatter** 1989 Nov;42(11):484–6 (Eng. Abstr.) (Ger)
[The role of emergency colonoscopy in colorectal hemorrhage] Giorgio P, et al.
Minerva Dietol Gastroenterol 1990 Jan–Mar;36(1):19–22 (Eng. Abstr.) (Ita)
[Peroral emptying of the colon. A randomized comparison of 4 and 1.5 liter regimens] Lind E, et al.
Tidsskr Nor Laegeforen 1990 Apr 30;110(11):1357–8 (Eng. Abstr.) (Nor)
[Diseases of the appendiceal epiploica] Abdulzhavadov IM. **Klin Khir** 1990;(4):73–4 (Rus)
[The diagnosis and treatment of intestinal obstruction in colonic cancer] Briskin BS, et al. **Vestn Khir** 1989 Oct; 143(10):123–5 (Rus)
[Visceral form of xanthomatosis in an adult male] Ippolitov GN, et al. **Vestn Khir** 1989 May;142(5):48–50 (Rus)
[The role of specialized proctologic examinations in primary medical testing of young people] Fedun AA, et al.
Voen Med Zh 1989 Jun;(6):57 (Rus)
[Malacoplakia of the colon, rectum and kidney: presentation of a case] Castillo Salinas F, et al. **An Esp Pediatr** 1989 Dec;31(6):593–5 (Spa)
[A 25-year-old man with pulmonary lesions, fever and diarrhea of long duration (clinical conference)] Valdovinos Díaz MA, et al. **Rev Invest Clin** 1989 Jul–Sep;41(3):287–95 (Spa)

DRUG THERAPY

Treatment of acute colonic pseudoobstruction (Ogilvie's syndrome) with cisapride. MacColl C, et al.
Gastroenterology 1990 Mar;98(3):773–6

EPIDEMIOLOGY

Caecocolic intussusception in Ibadan. Cole GJ. **Br J Surg** 1966 May;53(5):415–9

ETIOLOGY

Ruptured abdominal aortic aneurysm presenting as an obstruction of the left colon. Politoske EJ.
Am J Gastroenterol 1990 Jun;85(6):745–7
Churg-Strauss syndrome (allergic granulomatous angiitis) with peculiar multiple colonic ulcers. Shimamoto C, et al.
Am J Gastroenterol 1990 Mar;85(3):316–9 (28 ref.)
Cholecysto-duodenocolic fistula—a case report [letter] Leong S. **Ann Acad Med Singapore** 1990 May;19(3):421
Nonobstructing colonic dilatation and colon perforations following renal transplantation. Koneru B, et al.
Arch Surg 1990 May;125(5):610–3
Gastrocolic fistula as a complication of benign gastric ulcer: report of four cases and update of the literature. Soybel DI, et al. **Br J Surg** 1989 Dec;76(12):1298–300 (25 ref.)
Toxic megacolon and perforation caused by Shigella [letter] Upadhyay AK, et al. **Br J Surg** 1989 Nov;76(11):1217
Colonic pseudoobstruction associated with patient-controlled analgesia after total joint arthroplasty. Chambers HG, et al. **Clin Orthop** 1990 May;(254):255–60
Bowel perforation associated with intraperitoneal chromic phosphate instillation. Proctor J, et al. **Gynecol Oncol** 1990 Jan;36(1):125–7
Colonic hyperplasia and hyperproliferation induced by a nutritional stress diet with four components of Western-style diet. Newmark HL, et al.
J Natl Cancer Inst 1990 Mar 21;82(6):491–6
Abdominal pain, colomegaly, and jaundice from heart failure related to mitral stenosis. Baumgartner F, et al.
J Natl Med Assoc 1989 Oct;81(10):1091–3
Colonic intussusception secondary to a calcium phosphate bezoar in a child receiving calcium carbonate for hyperphosphatemia. Fildes RD, et al. **J Pediatr Surg** 1989 Nov;24(11):1195–7
Spontaneous rupture of the rectum and colon [letter; comment] Arora PK, et al. **J R Coll Surg Edinb** 1989 Oct; 34(5):285 Comment on: J R Coll Surg Edinb 1988 Dec;33(6):322–4.
Colonic perforation with a phosphate enema. Bell AM.
J R Soc Med 1990 Jan;83(1):54–5
Faecoptysis as the presenting symptom of colonic carcinoma. Winocour PH, et al. **J R Soc Med** 1989 Jul;82(7):441
Cologastric fistula as a complication of percutaneous endoscopic gastrostomy. Stefan MM, et al.
JPEN J Parenter Enteral Nutr 1989 Sep–Oct;13(5):554–6
Perforation of colon in distal intestinal syndrome of cystic fibrosis [letter] Whitehead AM. **Lancet** 1990 Aug 18; 336(8712):446
Cytomegalovirus vasculitis and colon perforation in a patient with the acquired immunodeficiency syndrome. Tatum ET, et al. **Pathology** 1989 Oct;21(4):235–8
Percutaneous transcolonic puncture of retained Foley balloon catheter. Lloyd SN, et al. **Postgrad Med J** 1989 Nov; 65(769):845–6
Colonic stricture complicating degenerative leiomyopathy. A case report. Jena GP. **S Afr J Surg** 1989 Sep;27(4):143–4
Gastrocolic fistula resulting from chronic pancreatitis. Hansen CP, et al. **South Med J** 1989 Oct;82(10):1309–10
Stercoraceous perforation of the colon. Wang YH, et al.
Taiwan I Hsueh Hui Tsa Chih 1989 May;88(5):517–9
Simultaneous gastropleural and gastrocolic fistulae in a quadriplegic male. Gaziano JM, et al. **W V Med J** 1990 May;86(5):203–5
[Acute intestinal invagination in a nursing infant facilitated by mesenterium commune] Dimitrov D, et al.
Khirurgiia (Sofiia) 1989;42(3):80–2 (Bul)
[Carbohydrate digestion and intestinal function disorders] Beaugerie L. **Ann Gastroenterol Hepatol (Paris)** 1990 Mar–Apr;26(2):67–70 (15 ref.) (Fre)
[Digestive amyloidosis with ischemic ulcer of the colon in a chronic hemodialysis patient] Saguem MH, et al.
Ann Pathol 1990;10(3):187–90 (Eng. Abstr.) (Fre)
[Obstructive colonic cancer. Apropos of 148 cases of G.E.R.C.V.] Dromer M, et al. **Chirurgie** 1989;115 Suppl 2:127–9 (Fre)
[Stenosis of the lowered colon after coloanal anastomosis and postoperative radiotherapy of cancer of the rectum (letter)] Lehur PA, et al. **Gastroenterol Clin Biol** 1990; 14(3):287–8 (Fre)
[Colonic stenosis caused by acute recurrent pancreatitis] Fabian W. **Med Klin** 1989 Dec 15;84(12):607–8 (Ger)
[Postoperative fistulas of the small intestine, colon and rectum] Rodolico A. **Chir Patol Sper** 1986 Oct–Dec; 34(5–6):67–80 (19 ref.) (Ita)
[Lipoma of the large intestine] Voghera P, et al.
Minerva Chir 1990 Mar 31;45(6):425–7 (Eng. Abstr.) (Ita)
[Lesions of the colon caused by pancreatitis] Zappa A, et al. **Minerva Chir** 1990 May 15;45(9):691–4 (14 ref.) (Eng. Abstr.) (Ita)
[Renocolic fistula caused by xanthogranulomatous pyelonephritis: a case report] Yamaguchi T, et al.
Hinyokika Kiyo 1990 Jan;36(1):63–7 (16 ref.) (Eng. Abstr.) (Jpn)
[A successfully treated case of fulminating amebic dysentery associated with multiple perforation of the large intestine] Hashimura H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 May;86(5):1149–53 (23 ref.) (Jpn)
[A case of fistula of the colon in non-Hodgkin's lymphoma of the spleen] Katayama K, et al.
Nippon Shokakibyo Gakkai Zasshi 1990 Jan;87(1):122–5 (Jpn)
[Tumor-induced colonic invagination in adults] Berge V.
Tidsskr Nor Laegeforen 1989 Sep 20;109(26):2655–6 (Eng. Abstr.) (Nor)
[Multiple foreign bodies in the stomach associated with peptic ulcer and gastro-colonic fistula] Suetin GN, et al.
Khirurgiia (Mosk) 1990 Mar;(3):103 (Rus)
[Cholecysto-colonic fistula as a complication of cholelithiasis] Chalkovskiĭ Iula, et al. **Vestn Khir** 1989 Apr; 142(4):46 (Rus)
[Cholelithiasis complicated by cholecysto-colonic fistula] Kadyrov ZL. **Vestn Khir** 1989 Apr;142(4):47 (Rus)
[An infrequent etiologic agent of vesicointestinal fistula] García López F, et al. **Actas Urol Esp** 1989 Nov–Dec; 13(6):454–6 (Eng. Abstr.) (Spa)
[Toxic megacolon and intestinal perforation caused by Salmonella enteritidis] Castells A, et al. **Rev Clin Esp** 1990 Apr;186(7):332–4 (14 ref.) (Eng. Abstr.) (Spa)
[Massive lower digestive hemorrhage caused by typhoid fever] Dobón Rascón MA, et al.
Rev Esp Enferm Apar Dig 1989 Nov;76(5):491–3 (Eng. Abstr.) (Spa)
[Duodenocolonic fistula caused by carcinoma of the cecum] García Rodríguez JF, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):79–81 (11 ref.) (Eng. Abstr.) (Spa)
[Hemangiomatous lesions with lymphangiectasias in the large intestine] Abad Hernández MM, et al.
Rev Esp Enferm Dig 1990 Mar;77(3):221–3 (10 ref.) (Eng. Abstr.) (Spa)
[Colonic perforation in patients with kidney transplant] Morcillo Rodenas MA, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):49–51 (Eng. Abstr.) (Spa)
[Benign coloduodenal fistula caused by inflammatory pseudotumor of the colon] Ruiz Jaureguizuria JC, et al.
Rev Esp Enferm Dig 1990 Jan;77(1):59–63 (Eng. Abstr.) (Spa)
[Cholelithiasis and cholecysto-colonic fistula: a rare form of biliary ileus] Serrano R, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):55–7 (Eng. Abstr.) (Spa)

GENETICS

Multiple gastrointestinal atresias with intraluminal calcifications. Gahukamble DB. **Indian J Pediatr** 1989 Jul–Aug;56(4):529–31

METABOLISM

Cholecystocolonic fistula: malabsorptive consequences of lost bile acids. Benage D, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):192–4
Impact of bacteria on metabolism of collagen in colonic obstruction in rats. Törnqvist A, et al.
Surg Gynecol Obstet 1990 Jul;171(1):5–8
Melanosis coli—histochemical and immunohistochemical comparison of the pigments of melanosis coli and Dubin-Johnson syndrome. Park C, et al. **Yonsei Med J** 1990 Mar;31(1):27–32
[A study on the triglyceride clearance in the perioperative period] Li YY. **Chung Hua Wai Ko Tsa Chih** 1989 May; 27(5):294–6, 317–8 (Eng. Abstr.) (Chi)
[Colonic fermentation: physiological review and role in digestive pathology] Rambaud JC, et al.
Schweiz Med Wochenschr 1990 Apr 7;120(14):489–95 (26 ref.) (Eng. Abstr.) (Fre)

MICROBIOLOGY

Yersinia pseudotuberculosis: report of a case with endoscopic findings. Rich EJ, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):413–5

PATHOLOGY

Rare case of internal hernia with a new type of hepatodiaphragmatic interposition of the stomach and colon. Fukuchi Y, et al. **Am J Gastroenterol** 1989 Oct; 84(10):1322–4
Colonic diverticulitis-related exuberant granulomatous reaction in a patient with sarcoidosis. Naschitz JE, et al.
Dig Dis Sci 1990 Apr;35(4):533–8 (29 ref.)
Ileocolonic lesions in patients with seronegative spondylarthropathy [letter] Van Gossum A, et al.
Gastroenterology 1990 Jun;98(6):1730
Schistosomal colonic disease. Mohamed AR, et al. **Gut** 1990 Apr;31(4):439–42
Acquired aganglionosis: a rare occurrence following pull-through procedures for Hirschsprung's disease. West KW, et al. **J Pediatr Surg** 1990 Jan;25(1):104–8; discussion 108–9
[Cytologic examination of colonic hypertrophic lesions using ultrasound-guided fine-needle aspiration] Luo FC.
Chung Hua I Hsueh Tsa Chih 1989 Nov;69(11):639–41 (Chi)
[A case of Crohn's disease associated with an intramural sinus tract of the transverse colon demonstrated pathohistology] Segawa K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):243–7 (Jpn)
[Traumatic and disease-related destruction of the retroperitoneal colon] Tomanović A, et al.
Acta Chir Iugosl 1989;36 Suppl 1:161–3 (Eng. Abstr.) (Scr)

PHYSIOPATHOLOGY

Gastrocolic fistula presenting as acute diarrhea. Russell LJ, et al. **Am Fam Physician** 1989 Oct;40(4):223–5

RADIOGRAPHY

Cytomegalovirus infection masquerading as colonic neoplasia. Lewis-Jones HG, et al. **Br J Radiol** 1990 Jul; 63(751):573–4
The computed tomographic appearances and clinical significance of intussusception in adults with malignant neoplasms. Lorigan JG, et al. **Br J Radiol** 1990 Apr; 63(748):257–62
Case of the month. The forgotten incident. Tran TL, et al.
Br J Radiol 1990 Aug;63(752):659–60
Vaginography: an easy and safe technique for diagnosis of colovaginal fistulas. Arnold MW, et al.
Dis Colon Rectum 1990 Apr;33(4):344–5
An unusual case of obstruction of the colon. Nguyen KT, et al. **Eur J Radiol** 1990 Mar–Apr;10(2):154–5
CT findings in primary amyloidosis of the colon. Dey C, et al. **J Comput Assist Tomogr** 1989 Nov–Dec;13(6):1094–5
A case of pancreatico-colo-cutaneous fistula; management guided by endoscopic retrograde cholangio-pancreatography. Chung JB, et al.
J Korean Med Sci 1989 Mar;4(1):23–7
Radiology case of the month. CT scan quiz. Diverticulitis, with pericolic abscess and fistula. Rohrbach MA, et al.
J Tenn Med Assoc 1989 Nov;82(11):601–2
Double-contrast barium enema studies: effect of multiple reading on perception error. Markus JB, et al.
Radiology 1990 Apr;175(1):155–6
Cholecystocolic fistula: an unusual presentation and diagnosis by endoscopic retrograde cholangiopancreatography. Sing RF, et al. **Surg Endosc** 1990;4(1):39–40
[Colorectal invagination in adults following removal of a sigmoid polyp] Wallner B, et al. **Rontgenblatter** 1990 Feb; 43(2):78–9 (Eng. Abstr.) (Ger)
[Indications for roentgenologic diagnosis of the colon in gynecology] Natho W, et al. **Zentralbl Gynakol** 1990; 112(2):61–74 (Eng. Abstr.) (Ger)
[Penetration of the abdominal drainage catheter of a ventriculo-abdominal shunt into the descending colon] Rieger A, et al. **Zentralbl Neurochir** 1989;50(1):55–6 (Eng. Abstr.) (Ger)
[A case of mesenteric panniculitis of the transverse colon] Tanaka N, et al. **Rinsho Hoshasen** 1990 Mar;35(3):415–8 (Eng. Abstr.) (Jpn)
[Deformity and retraction of the ascending colon] de Diego Rey P, et al. **Rev Clin Esp** 1989 Oct;185(6):330–2 (Spa)

RADIONUCLIDE IMAGING

A case of factitious colonic bleeding. McIntyre AS, et al.
J R Soc Med 1990 Jul;83(7):465–6

SURGERY

The significance of timing of metronidazole prophylaxis and

addition of fosfomycin in colorectal surgery. An experimental study in rats. Kling PA, et al. **Acta Chir Scand** 1990 Jan;156(1):105–10

Surgical management of the acutely obstructed colon [letter; comment] Flynn CL. **Am J Surg** 1990 Feb;159(2):269–70 Comment on: Am J Surg 1988 Sep;156(3 Pt 1):163–8.

Antibiotics in elective colon surgery. A randomized trial of oral, systemic, and oral/systemic antibiotics for prophylaxis. Stellato TA, et al. **Am Surg** 1990 Apr; 56(4):251–4

Massive colonic haemorrhage—the case for right hemicolectomy [letter; comment] **Ann R Coll Surg Engl** 1989 Nov;71(6):409–10 Comment on: Ann R Coll Surg Engl 1989 Jul;71(4):253–9.

A personal experience with 100 consecutive total colectomies and straight ileoanal endorectal pull-throughs for benign disease of the colon and rectum in children and adults. Coran AG. **Ann Surg** 1990 Sep;212(3):242–7; discussion 247–8

Gastrointestinal end-to-end anastomosis. Using staples to secure the procedure. LeBlanc KA, et al. **AORN J** 1990 Apr;51(4):986–8, 990–3

Male homosexuality, HIV infection and colorectal surgery. Scholefield JH, et al. **Br J Surg** 1990 May;77(5):493–6 (74 ref.)

Intraoperative cleansing of the impacted colon using an endotracheal tube. Shimotsuma M, et al. **Dis Colon Rectum** 1990 Mar;33(3):241–2

Effectiveness of a long intestinal tube in a one-stage operation for obstructing carcinoma of the left colon. Terasaka R, et al. **Dis Colon Rectum** 1990 Mar;33(3):245–8

Anastomotic healing after resection of left-colon stenosis: effect on collagen metabolism and anastomotic strength. An experimental study in the rat. Törnqvist A, et al. **Dis Colon Rectum** 1990 Mar;33(3):217–21

Use of Nd-Yag laser ablation in colorectal obstruction and palliation in high-risk patients. Walfisch S, et al. **Dis Colon Rectum** 1989 Dec;32(12):1060–4

Endoscopic treatment of colonic angiodysplasia: the procedure was a success, but.... Thirlby RC. **Gastroenterology** 1990 May;98(5 Pt 1):1386–7

Hazards of contact tip use of Nd:YAG laser in treatment of colonic lesions [letter; comment] Fraiberg EN, et al. **Gastrointest Endosc** 1989 Sep-Oct;35(5):468 Comment on: Gastrointest Endosc 1989 Jan-Feb;35(1):16–21.

Tracheo-colonic fistula: an exceptional complication after total replacement of an esophagus injured by acid. Moreno González E, et al. **Hepatogastroenterology** 1990 Apr; 37(2):212–4

Iliac aneurysmo-colonic fistula. A case report and review of literature. Lal N, et al. **Int Angiol** 1989 Jul-Sep; 8(3):151–3 (8 ref.)

Prophylactic colectomy in Ehlers-Danlos syndrome with colonic ectasia. Shi EC, et al. **J Pediatr Surg** 1989 Nov; 24(11):1187–8

Preparation of the bowel before elective surgery using a polyethylene glycol solution at home and in hospital compared with conventional preparation using magnesium sulphate. Huddy SP, et al. **J R Coll Surg Edinb** 1990 Feb; 35(1):16–20

Comparison of two prophylactic single-dose intravenous antibiotic regimes in the treatment of patients undergoing elective colorectal surgery in a district general hospital. Kingston RD, et al. **J R Coll Surg Edinb** 1989 Aug; 34(4):208–11

Is a drain necessary after colonic anastomosis? Johnson CD, et al. **J R Soc Med** 1989 Nov;82(11):661–4

Single dose prophylaxis in colorectal surgery. Bissett IP, et al. **N Z Med J** 1990 Sep 12;103(897):428–9

Endoscopic alternatives in the management of colonic strictures. Oz MC, et al. **Surgery** 1990 Sep;108(3):513–9

[Acute states in colorectal surgery] Vysloužil K, et al. **Cas Lek Cesk** 1989 Oct 13;128(42):1325–7 (Eng. Abstr.) **(Cze)**

[One-stage subtotal colectomy in the emergency treatment of occlusive left colonic neoplasms] Alle JL, et al. **Acta Chir Belg** 1990 May-Jun;90(3):86–8 (Eng. Abstr.) **(Fre)**

[Single-stage excision anastomosis of left colonic obstruction excision treated as an emergency] Ambrosetti P, et al. **Chirurgie** 1989;115 Suppl 2:I–VII (Eng. Abstr.) **(Fre)**

[Treatment of acute left colonic occlusion. 30 cases (1985–1988)] Arsac M, et al. **Chirurgie** 1989;115 Suppl 2:117–8 **(Fre)**

[Acute left colonic obstruction of neoplastic origin. Study of a series of 128 cases] Barth X, et al. **Chirurgie** 1989;115 Suppl 2:133–41 (Eng. Abstr.) **(Fre)**

[Result of the surgical treatment of acute intestinal obstruction of the left colon surgically treated in the first 24 hours of their hospitalization] Gautier-Benoit C, et al. **Chirurgie** 1989;115 Suppl 2:148–50 **(Fre)**

[Emergency surgery of acute obstruction due to left colonic cancer. Conclusions of the Academy] Guivarc'h M. **Chirurgie** 1989;115 Suppl 2:151–2 **(Fre)**

[Emergency surgery of left colonic occlusion] Guivarc'h M, et al. **Chirurgie** 1989;115 Suppl 2:101–5 (Eng. Abstr.) **(Fre)**

[Treatment of acute obstruction due to left colonic cancer] Malafosse M, et al. **Chirurgie** 1989;115 Suppl 2:123–6 (Eng. Abstr.) **(Fre)**

[Colonic occlusion. Apropos of a surgical series of 63 cases] Meyer C, et al. **Chirurgie** 1989;115 Suppl 2:106–11 (Eng. Abstr.) **(Fre)**

[Must we reject primary colostomy in left colonic obstruction caused by cancer?] Parc R, et al. **Chirurgie** 1989;115 Suppl 2:112–6 (Eng. Abstr.) **(Fre)**

[Obstructive left colonic cancer. Retrospective analysis of the therapeutic attitude in a series of 40 recent cases] Patel JC, et al. **Chirurgie** 1989;115 Suppl 2:119–22 (Eng. Abstr.) **(Fre)**

[Left colonic obstruction surgically treated as an emergency. Reflection apropos of 52 obstructive left colonic cancers surgically treated] Testas P, et al. **Chirurgie** 1989;115 Suppl 2:145–7 **(Fre)**

[Emergency surgery of left colonic obstruction] Vayre P, et al. **Chirurgie** 1989;115 Suppl 2:142–4 **(Fre)**

[Left colonic occlusion. Can it be treated in one-stage as an emergency?] Verhaeghe P, et al. **Chirurgie** 1989;115 Suppl 2:99–100 (Eng. Abstr.) **(Fre)**

[Perforations of the colon. Apropos of 74 cases] Meyer C, et al. **J Chir (Paris)** 1989 Oct;126(10):501–6 (Eng. Abstr.) **(Fre)**

[Discontinuity resection of the colon. Indications and results] Hermanek P Jr, et al. **Chirurg** 1990 Jan;61(1):49–52 (Eng. Abstr.) **(Ger)**

[Experiences with a subcutaneous, fully resorbable bridge in construction a double loop ileo- and colostomy] Wedell J, et al. **Chirurg** 1990 Jan;61(1):36–8 (Eng. Abstr.) **(Ger)**

[Enteral nutrition in patients in intensive care and the early postoperative phase] Wiedeck H. **Z Gastroenterol** 1989 Jun; 27 Suppl 2:49–52 **(Ger)**

[Differential surgical treatment of ileus of the large intestine] Gebhardt C, et al. **Zentralbl Chir** 1990;115(2):77–88 (Eng. Abstr.) **(Ger)**

[Ileus caused by epithelioid leiomyoblastoma of the large intestine] Hopfer F, et al. **Zentralbl Chir** 1989;114(14):950–3 **(Ger)**

[Enteral nutrition in colo-rectal surgery] Cavallaro A, et al. **Chir Patol Sper** 1988 Feb;36(1):37–45 (Eng. Abstr.) **(Ita)**

[Emergency surgical treatment of acute perforation of the colon] D'Agostino G, et al. **Minerva Chir** 1990 Feb; 45(3–4):145–6 (Eng. Abstr.) **(Ita)**

[Non-traumatic colic perforation in free peritoneum. Apropos of 61 cases] di Natale I, et al. **Minerva Chir** 1989 Sep 30;44(18):1981–4 (Eng. Abstr.) **(Ita)**

[Considerations on the pre- and peri-operative preparations in surgery of the colon] Pira L. **Minerva Chir** 1989 Aug 31;44(15–16):1825–9 (17 ref.) (Eng. Abstr.) **(Ita)**

[Perforation of the colon] Valle M, et al. **Minerva Chir** 1990 May 15;45(9):645–51 (Eng. Abstr.) **(Ita)**

[Combined surgery of the large intestine and biliary tract] Fedorov VD, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):3–6 (Eng. Abstr.) **(Rus)**

[Errors and complications associated with the use of the AKA-2 apparatus in operations on the large intestine] Khamidov AI. **Khirurgiia (Mosk)** 1989 Jul;(7):103–5 **(Rus)**

[Treatment of patients with postoperative fistulas of the colon] Zhabanovskiĭ VE, et al. **Khirurgiia (Mosk)** 1990 Feb; (2):119–23 (Eng. Abstr.) **(Rus)**

[Anesthesiologic management in surgery of diseases of the omental processes of the colon] Abdulzhavadov IM. **Klin Khir** 1989;(12):56–7 **(Rus)**

[Reconstructive treatment of sequelae of injuries of the large intestine] Fedun AA, et al. **Vestn Khir** 1989 Jun; 142(6):59–63 (Eng. Abstr.) **(Rus)**

[Selection of the anastomosis in right-side hemicolectomy] Ivanov MA. **Vestn Khir** 1989 Jun;142(6):144–7 (44 ref.) **(Rus)**

[End-to-end anastomosis in right-sided hemicolectomy] Kariakin AM, et al. **Vestn Khir** 1989 Dec;144(12):21–6 (Eng. Abstr.) **(Rus)**

[Immunologic parameters of blood after extensive intestinal resection] Lud NG, et al. **Vestn Khir** 1990 Feb;144(2):37–42 (Eng. Abstr.) **(Rus)**

[Relaparotomy after operations on the rectum and colon] Myshkin KI, et al. **Vestn Khir** 1989 Sep;143(9):5–9 (Eng. Abstr.) **(Rus)**

[Problems of closure of two-passage colostomy] Voro bev GI, et al. **Vestn Khir** 1989 May;142(5):134–8 (44 ref.) **(Rus)**

[Surgical treatment of dolichosigmoid and its torsion] Zemlianoĭ AG, et al. **Vestn Khir** 1989 Nov;143(11):28–30 **(Rus)**

[High colonic-vaginal fistulas] Ivanišević M, et al. **Lijec Vjesn** 1990 Jan-Feb;112(1–2):22–5 (Eng. Abstr.) **(Scr)**

[Colonic surgery in the elderly. Comparative study with other age groups] Elorza Orúe JL, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):243–7 (Eng. Abstr.) **(Spa)**

[Spontaneous biliodigestive fistula] Palomar de Luis M, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):33–8 (30 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Endoscopic treatment of biliary enteric fistula. Marshall T, et al. **BMJ** 1990 May 5;300(6733):1176

Large bowel problems. Smith RG. **Br Med Bull** 1990 Jan; 46(1):246–61 (28 ref.)

Bedside modified latex tube colopexy for the treatment of colostomy prolapse in children. Mogilner JG, et al. **Isr J Med Sci** 1990 Jul;26(7):410–1

What's new in colorectal surgery. Cooke TG, et al. **J R Coll Surg Edinb** 1990 Apr;35(2):69–70

Colonoscopic removal of a gallstone obstructing the sigmoid colon. Roberts SR, et al. **J Tenn Med Assoc** 1990 Jan; 83(1):18–9

The medical, nutritional and surgical treatment of fistulae in Crohn's disease. Yamazaki Y, et al. **Jpn J Surg** 1990 Jul;20(4):376–83 (33 ref.)

Management of colonic dysplasia and adenomas. Riddell RH. **Monogr Pathol** 1990;(31):356–75 (36 ref.)

Significance of age, duration, obstruction and the dissection sign in intussusception. Barr LL, et al. **Pediatr Radiol** 1990; 20(6):454–6

Intussusception: clinical and radiographic factors influencing reducibility. Stephenson CA, et al. **Pediatr Radiol** 1989; 20(1–2):57–60

Colonoscopic decompression of pseudo-obstruction and volvulus. Strodel WE, et al. **Surg Clin North Am** 1989 Dec; 69(6):1327–35 (63 ref.)

Childhood intussusception. Skipper RP, et al. **Surg Gynecol Obstet** 1990 Aug;171(2):151–3

[Endo-urologic treatment of the uretero-intestinal stenoses in patients subjected to diversion] Hidalgo Togores L, et al. **Arch Esp Urol** 1990 Jun;43(5):551–6 (Eng. Abstr.) **(Spa)**

[Colonoscopic approach in the therapy of sigmoid volvulus] Clemente Ricote G, et al. **Rev Esp Enferm Dig** 1990 Feb; 77(2):129–32 (Eng. Abstr.) **(Spa)**

VETERINARY

Further experiences with non-surgical correction of nephrosplenic entrapment of the left colon in the horse. Kalsbeek HC. **Equine Vet J** 1989 Nov;21(6):442–3

Evaluation of a colonic lavage solution to prepare the colon of the dog for colonoscopy. Burrows CF. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1719–21

Attaching and effacing Escherichia coli infection as a cause of diarrhea in young calves. Janke BH, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):897–901

Strangulating volvulus of the ascending colon in horses. Snyder JR, et al. **J Am Vet Med Assoc** 1989 Sep 15; 195(6):757–64

Surgery of the bovine large intestine. Fubini SL. **Vet Clin North Am Food Anim Pract** 1990 Jul;6(2):461–71 (20 ref.)

[What is your diagnosis? Which treatment do you suggest? Colonic obstruction in a calf] Steiner A, et al. **Schweiz Arch Tierheilkd** 1989;131(9):577–8 **(Ger)**

COLONIC DISEASES, FUNCTIONAL

Patient education. The irritable bowel. Murtagh J. **Aust Fam Physician** 1989 Oct;18(10):1289

[Functional intestinal dyspepsia] Benýšek L. **Zdrav Aktual** 1983;204:109–12 **(Cze)**

BLOOD

[Cyclic nucleotides and serotonin in the blood of patients with functional and inflammatory diseases of the large intestine] Makarian AP, et al. **Lab Delo** 1989;(10):53–6 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

[Irritable colon syndrome in intolerance to food additives] Antico A, et al. **Minerva Dietol Gastroenterol** 1989 Oct-Dec;35(4):219–24 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Hypothyroidism and functional bowel disease. Lake-Bakaar G. **Am J Med** 1990 Mar;88(3):312–3

The extracolonic manifestations of the irritable bowel syndrome [editorial] Tilbe K, et al. **Can Med Assoc J** 1990 Mar 15;142(6):539–40 (26 ref.)

The efficacy of amineptine in the treatment of depressive patients with irritable bowel syndrome. Alevizos B, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S66–76

Inflammatory bowel disease and irritable bowel syndrome. Bayless TM, et al. **Med Clin North Am** 1990 Jan;74(1):21–8 (14 ref.)

[Dyskinesia of the large intestine and hemorrhoids in pregnancy] Shekhtman MM. **Akush Ginekol (Mosk)** 1989 Aug;(8):70–4 **(Rus)**

DIAGNOSIS

Accuracy of clinical impressions: experience with patients previously diagnosed to have functional bowel syndrome [letter] Tabibian N. **Am J Gastroenterol** 1990 May; 85(5):622–3

Irritable bowel syndrome and psychiatric illness. Walker EA, et al. **Am J Psychiatry** 1990 May;147(5):565–72 (96 ref.)

A questionnaire for functional bowel disorders. Drosman DA. **Ann Intern Med** 1989 Oct 15;111(8):627–9

A patient questionnaire to identify bowel disease. Talley NJ, et al. **Ann Intern Med** 1989 Oct 15;111(8):671–4

Pelvic pain—pelvic congestion or the irritable bowel syndrome? Farquhar CM, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Oct;37(1):71–5

Diagnostic value of the Manning criteria in irritable bowel syndrome. Talley NJ, et al. **Gut** 1990 Jan;31(1):77–81

Diagnosis and management of irritable bowel syndrome: discussion paper [see comments] Whorwell PJ.

J R Soc Med 1989 Oct;82(10):613–4 (28 ref.) Comment in: J R Soc Med 1990 Mar;83(3):198.
Irritable bowel syndrome—making the diagnosis. Jones R. Practitioner 1989 May 8;233(1468):684–6
Functional colonic ultrasonography: normal findings of colonic motility and follow-up in neuronal intestinal dysplasia. Pistor G. Prog Pediatr Surg 1989;24:155–64
Myoelectric and manometric patterns of human rectosigmoid colon in irritable bowel syndrome and diverticulosis. Katschinski M, et al. Scand J Gastroenterol 1990 Jul; 25(7):761–8
[Irritable bowel syndrome] Tytgat GN. Ned Tijdschr Geneeskd 1989 Nov 18;133(46):2283–5 (14 ref.) (Dut)
[Lactose malabsorption disguised as "irritable colon"] Berges W, et al. Dtsch Med Wochenschr 1990 Feb 2;115(5):196–7 (15 ref.) (Ger)
[Functional megacolon in children] Levin MD. Pediatriia 1989;(8):22–7 (Eng. Abstr.) (Rus)
[A new method of diagnosis of functional megacolon] Sitkovskil NB, et al. Vestn Khir 1989 Nov;143(11):128–9 (Rus)

DIET THERAPY

Nutritional therapy of irritable bowel syndrome. Friedman G. Gastroenterol Clin North Am 1989 Sep;18(3):513–24 (35 ref.)
Effect of dietary fiber on symptoms and rectosigmoid motility in patients with irritable bowel syndrome. A controlled, crossover study. Cook IJ, et al. Gastroenterology 1990 Jan; 98(1):66–72

DRUG THERAPY

Single doses of ritodrine delay orocaecal transit in patients with irritable bowel syndrome. Basilisco G, et al. Br J Clin Pharmacol 1990 Mar;29(3):355–8
Effect of oral nicardipine on anorectal function in normal human volunteers and patients with irritable bowel syndrome. Sun WM, et al. Dig Dis Sci 1990 Jul;35(7):885–90
Longterm treatment of irritable bowel syndrome with cimetropium bromide: a double blind placebo controlled clinical trial. Dobrilla G, et al. Gut 1990 Mar;31(3):355–8
Irritable bowel syndrome: therapeutic evaluation of indigenous drugs. Yadav SK, et al. Indian J Med Res 1989 Dec;90:496–503
The non-effect of pirenzepine in dietary resistant irritable bowel syndrome. Gilvarry J, et al. Ir J Med Sci 1989 Oct; 158(10):262
Advances in understanding the irritable bowel syndrome [letter; comment] Khardori R. Med J Aust 1990 Jan 15; 152(2):112 Comment on: Med J Aust 1989 Jul 17;151(2):92, 95–9.
Long-term treatment of irritable bowel syndrome: results of a randomized controlled trial. Misra SP, et al. Q J Med 1989 Oct;73(270):931–9
[Treatment with antidepressants in biliary dyskinesia and irritable colon] Birt M, et al. Rev Med Interna [Med Interna] 1989 May–Jun;41(3):277–82 (Rum)
[Prognosis of patients with irritable intestine syndrome. A prospective study with 1 year follow-up] Linares Rodríguez A, et al. Rev Esp Enferm Dig 1990 Jan; 77(1):18–23 (Eng. Abstr.) (Spa)

EPIDEMIOLOGY

Irritable bowel syndrome in the gynecological clinic. Survey of 798 new referrals. Prior A, et al. Dig Dis Sci 1989 Dec; 34(12):1820–4
Epidemiology of irritable bowel syndrome in the United States. Sandler RS. Gastroenterology 1990 Aug; 99(2):409–15
Existence of irritable bowel syndrome supported by factor analysis of symptoms in two community samples. Whitehead WE, et al. Gastroenterology 1990 Feb; 98(2):336–40
Functional gastrointestinal symptoms in a Wellington community sample. Welch GW, et al. N Z Med J 1990 Sep 12;103(897):418–20

ETIOLOGY

Motility disorders and stress. Camilleri M, et al. Dig Dis Sci 1989 Nov;34(11):1777–86 (62 ref.)
Role of fructose-sorbitol malabsorption in the irritable bowel syndrome. Nelis GF, et al. Gastroenterology 1990 Oct; 99(4):1016–20
Prevalence of lactose malabsorption among patients with functional bowel disorders. Enck P, et al. Z Gastroenterol 1990 May;28(5):239–41
[What is your diagnosis? secondary colon involvement in severe pancreatitis] Campana L. Schweiz Rundsch Med Prax 1990 Jun 12;79(24):749–50 (Ger)

IMMUNOLOGY

Modifications of intestinal permeability during food provocation procedures in pediatric irritable bowel syndrome. Barau E, et al. J Pediatr Gastroenterol Nutr 1990 Jul;11(1):72–7

METABOLISM

Intestinal permeability in irritable bowel syndrome. Effect of diet and sodium cromoglycate administration. Paganelli R, et al. Ann Allergy 1990 Apr;64(4):377–80

PHYSIOPATHOLOGY

Detection of pseudodiarrhoea by simple clinical assessment of intestinal transit rate. O'Donnell LJ, et al. BMJ 1990 Feb 17;300(6722):439–40
Prolonged ambulant recordings of small bowel motility demonstrate abnormalities in the irritable bowel syndrome. Kellow JE, et al. Gastroenterology 1990 May;98(5 Pt 1):1208–18
Evidence for exacerbation of irritable bowel syndrome during menses. Whitehead WE, et al. Gastroenterology 1990 Jun;98(6):1485–9
Tolerance for rectosigmoid distention in irritable bowel syndrome. Whitehead WE, et al. Gastroenterology 1990 May;98(5 Pt 1):1187–92
Stress and oesophageal motility in normal subjects and patients with irritable bowel syndrome. Ayres RC, et al. Gut 1989 Nov;30(11):1540–3
Changes in rectal sensitivity after hypnotherapy in patients with irritable bowel syndrome. Prior A, et al. Gut 1990 Aug;31(8):896–8
Anorectal manometry in irritable bowel syndrome: differences between diarrhoea and constipation predominant subjects. Prior A, et al. Gut 1990 Apr; 31(4):458–62
Irritable bowel syndrome [letter; comment] Campbell J. J R Soc Med 1990 Mar;83(3):198 Comment on: J R Soc Med 1989 Oct;82(10):613–4.
[Irritable bowel syndrome (letter)] Ned Tijdschr Geneeskd 1989 Dec 30;133(52):2629–30 (Dut)
[Motility of the sigmoid in irritable bowel syndrome and colonic diverticulosis] Ritsema GH, et al. Ned Tijdschr Geneeskd 1990 Jul 21;134(29):1398–401 (Eng. Abstr.) (Dut)
[Irritable colon and colonic disease due to laxatives] Wienbeck M, et al. Schweiz Rundsch Med Prax 1990 Jul 17;79(29–30):885–8 (Eng. Abstr.) (Ger)

PSYCHOLOGY

Hand temperature norms for headache, hypertension, and irritable bowel syndrome. Blanchard EB, et al. Biofeedback Self Regul 1989 Dec;14(4):319–31
Ranking of symptoms by patients with the irritable bowel syndrome. Maxton DG, et al. BMJ 1989 Nov 4; 299(6708):1138
Psychological factors in irritable bowel syndrome. Toner BB, et al. Can J Psychiatry 1990 Mar;35(2):158–61
Role of psychological factors in the irritable bowel syndrome. Kumar D, et al. Digestion 1990;45(2):80–7
Psychosocial factors are associated with health care seeking rather than diagnosis in irritable bowel syndrome. Smith RC, et al. Gastroenterology 1990 Feb;98(2):293–301
Relation among personality and symptoms in nonulcer dyspepsia and the irritable bowel syndrome. Talley NJ, et al. Gastroenterology 1990 Aug;99(2):327–33
Neuroticism in patients with irritable bowel syndrome. Yadav SK, et al. Indian J Gastroenterol 1990 Jan;9(1):29–31
Self-schema in irritable bowel syndrome and depression. Toner BB, et al. Psychosom Med 1990 Mar–Apr; 52(2):149–55
[Clinical conference at the Brazilian Institute for Studies and Research in Gastroenterology] Arq Gastroenterol 1989 Jan–Jun;26(1–2):33–41 (Por)
[Register of observations of clinical research at the Brazilian Institute for Studies and Research in Gastroenterology] Arq Gastroenterol 1989 Jul–Sep;26(3):84–92 (Por)
[Psychosomatic disorders of the colon] Korkina MV, et al. Zh Nevropatol Psikhiatr 1989;89(11):96–100 (Eng. Abstr.) (Rus)

THERAPY

A 1- and 2-year follow-up study of bowel sound biofeedback as a treatment for irritable bowel syndrome. Radnitz CL, et al. Biofeedback Self Regul 1989 Dec;14(4):333–8
Hypnotherapy for selected gastrointestinal disorders. Whorwell PJ. Dig Dis 1990;8(4):223–5
Psychological treatments of the irritable bowel syndrome: a review. Creed F, et al. Gut 1989 Nov;30(11):1601–9 (24 ref.)
Diagnosis and management of irritable bowel syndrome: discussion paper [see comments] Whorwell PJ. J R Soc Med 1989 Oct;82(10):613–4 (28 ref.) Comment in: J R Soc Med 1990 Mar;83(3):198.
Complementary therapies for common conditions. Lewith G. Practitioner 1990 Feb 8;234(1482):123–5
Psychodrama group therapy for patients with functional gastrointestinal disorders—a controlled long-term follow-up study. Arn I, et al. Psychother Psychosom 1989; 51(3):113–9

COLONIC NEOPLASMS

Carcinoid tumor of the transverse colon [letter] Shah P, et al. Am J Gastroenterol 1989 Oct;84(10):1337
Colon, rectum, and anus. Beart RW Jr. Cancer 1990 Feb 1;65(3 Suppl):684–8 (32 ref.)
Cancer of colon and rectum. Fry RD, et al. Clin Symp 1989; 41(5):2–32 (23 ref.)
Cutaneous metastases of colonic adenocarcinoma. Gmitter TL, et al. Cutis 1990 Jul;46(1):66–8 (15 ref.)
Leiomyosarcoma of the transverse colon. Report of a case with discussion. Nuessle WR, et al. Dis Colon Rectum 1990 Apr;33(4):323–6 (19 ref.)
Angiosarcoma of the colon. Report of a case with long-term survival. Smith JA, et al. Dis Colon Rectum 1990 Apr; 33(4):330–3 (8 ref.)
"True" histiocytic lymphoma of the stomach associated with colonic cancer and complicated by chronic myeloid leukemia [letter] Melato M, et al. Haematologica (Pavia) 1989 Sep–Oct;74(5):521–2
Cancer of distant primary site relapsing in the nasopharynx: a report of two cases and review of the literature. McKay MJ, et al. Head Neck 1989 Nov–Dec;11(6):534–7 (10 ref.)
Incorporation of iododeoxyuridine into neoplastic DNA: a fraudulent magic bullet? Calabresi P, et al. Hepatology 1990 Jan;11(1):145–6
Radioimmunolocation of metastases from adenocarcinoma of the colon: using a hepatoma antibody. Divgi CR, et al. Hepatology 1990 May;11(5):891–2
Metastatic liver adenocarcinoma. Van Tussenbroek F, et al. J Belge Radiol 1989 Dec;72(6):540–1
A peculiar form of epidermotropism in cutaneous metastatic carcinoma. Oku T, et al. J Dermatol 1990 Jan;17(1):59–61
Turcot's syndrome: a diagnostic consideration in a child with primary adenocarcinoma of the colon. Tithecott GA, et al. J Pediatr Surg 1989 Nov;24(11):1189–91
Calcified liver lesions. Jacoby JH, et al. N J Med 1990 Aug; 87(8):651–2
Colorectal adenocarcinoma in childhood and adolescent. Report of 11 cases and review of the literature. Lamego CM, et al. Pediatr Radiol 1989;19(8):504–8 (13 ref.)
Surgical decision making for large bowel cancer metastatic to the liver. Sugarbaker PH. Radiology 1990 Mar;174(3 Pt 1):621–6 (10 ref.)
[Obstruction of the sigmoid colon due to an ovarian metastasis of colonic origin] Catteau A, et al. J Belge Radiol 1989 Aug;72(4):289–91 (Eng. Abstr.) (Fre)
[Requirements for the randomized trial of i.a. vs. i.v. administration to reveal the impact of hepatic arterial infusion on survival in the treatment of liver metastases] Arai Y, et al. Gan To Kagaku Ryoho 1990 Aug;17(8 Pt 2):1674–7 (Eng. Abstr.) (Jpn)
[Surgical treatment of metastatic tumor of the lungs] Biriukov IuV, et al. Khirurgiia (Mosk) 1990 Apr;(4):8–14 (Eng. Abstr.) (Rus)
[Intra-arterial chemotherapy in metastases of cancer of the colon and rectum to the liver] Shatikhin VA, et al. Sov Med 1989;(6):36–40 (44 ref.) (Rus)
[Surgical problems in metastatic cancer of the liver] Zhuravlev VA. Vestn Khir 1990 Feb;144(2):148–50 (41 ref.) (Rus)
[Malignant tumors of the colon and rectum] Bilenjki D. Med Arh 1988;42(5–6):277–80 (Eng. Abstr.) (Scr)
[Synchronous multiple carcinomas of the colon and rectum. Presentation of 18 cases and review of the literature] Gómez Iglesias S, et al. Rev Esp Enferm Apar Dig 1989 Oct;76(4):316–20 (20 ref.) (Eng. Abstr.) (Spa)

ANALYSIS

Specific receptors for 1,25-dihydroxyvitamin D3 (1,25-DR) and human colorectal carcinogenesis. Lointier P, et al. Anticancer Res 1989 Nov–Dec;9(6):1921–4
Immunohistochemical detection of epidermal growth factor receptors on human colonic carcinomas. Steele RJ, et al. Br J Cancer 1990 Feb;61(2):325–6
Human chorionic gonadotropin in colorectal cancer and its relationship to prognosis. Yamaguchi A, et al. Br J Cancer 1989 Sep;60(3):382–4
Tissue carcinoembryonic antigen and DNA aneuploidy in precancerous and cancerous colorectal lesions. Fischbach W, et al. Cancer 1990 Apr 15;65(8):1820–4
Polyamines in colorectal cancer. Evaluation of polyamine concentrations in the colon tissue, serum, and urine of 50 patients with colorectal cancer. Löser C, et al. Cancer 1990 Feb 15;65(4):958–66
Cell surface sialoprotein alterations in metastatic murine colon cancer cell lines selected in an animal model for colon cancer metastasis. Bresalier RS, et al. Cancer Res 1990 Feb 15;50(4):1299–307
Generation of a monoclonal antibody (G9) reactive with an organ-specific, tumor-associated epitope of human colon carcinoma. Gold DV, et al. Cancer Res 1989 Nov 15; 49(22):6412–8
Characterization of the shed form of the human tumor-associated glycoprotein (TAG-72) from serous effusions of patients with different types of carcinomas. Katari RS, et al. Cancer Res 1990 Aug 15;50(16):4885–90
Expression of a Mr 32,000 laminin-binding protein messenger RNA in human colon carcinoma correlates with disease progression. Mafune K, et al. Cancer Res 1990 Jul 1; 50(13):3888–91
The carbohydrate composition of mucin in colonic cancer. Boland CR, et al. Gastroenterology 1990 May;98(5 Pt 1):1170–7
Identification of laminin binding proteins in cell membranes of a human colon adenocarcinoma cell line. Stallmach A, et al. Gut 1990 Jan;31(1):70–6
Methane production in patients with colorectal carcinoma.

Kashtan H, et al. **Isr J Med Sci** 1989 Nov;25(11):614–6

Oestrogen receptors in colorectal carcinoma. Dawson PM, et al. **J Clin Pathol** 1990 Feb;43(2):149–51

A simple immunofiltration assay for mucins secreted by a human colonic epithelial cell line. Roumagnac I, et al. **J Immunol Methods** 1989 Sep 1;122(2):265–71

Expression of the c-erbB-2 gene product (p185) at different stages of neoplastic progression in the colon. D'Emilia J, et al. **Oncogene** 1989 Oct;4(10):1233–9

Increase in peripheral benzodiazepine binding sites in colonic adenocarcinoma. Katz Y, et al. **Oncology** 1990;47(2):139–42

Procoagulant activity of human stomach and colon cancers. Mielicki W, et al. **Oncology** 1990;47(4):299–302

Flow cytometric analysis of intracellular hematoporphyrin derivative in human tumor cells and multicellular spheroids. West CM, et al. **Photochem Photobiol** 1989 Nov; 50(5):665–9

Enzyme patterns and flow cytometric DNA measurements in colorectal hyperplastic polyps and tubular adenomas less than five millimeters. Vatn MH, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1031–8

Indirect activation of blood coagulation in colon cancer. Wojtukiewicz MZ, et al. **Thromb Haemost** 1989 Dec 29; 62(4):1062–6

A comparative study of the localization of plasminogen and apolipoprotein(a) in human carcinomas. Correc P, et al. **Thromb Res** 1990 May 1;58(3):213–20

[Demonstration of an interferon alpha receptor in human colonic cancer cells in culture] Boissard C, et al. **C R Acad Sci [III]** 1989;309(11):485–92 (Eng. Abstr.) **(Fre)**

BLOOD

The reactive cellular population and expression of blood group substance in human colorectal cancer. Sakamoto H. **Acta Pathol Jpn** 1989 May;39(5):313–20

Th polyagglutination with fatal outcome in a patient with massive intravascular hemolysis and perforated tumor of colon. Levene NA, et al. **Am J Hematol** 1990 Oct; 35(2):127–8

Inactivation and clearance of an anti-CEA carboxypeptidase G2 conjugate in blood after localisation in a xenograft model. Sharma SK, et al. **Br J Cancer** 1990 May; 61(5):659–62

Studies on components of the contact phase system in patients with advanced gastrointestinal cancer. Roeise O, et al. **Cancer** 1990 Mar 15;65(6):1355–9

Influence of dose of [6RS]leucovorin on reduced folate pools and 5-fluorouracil-mediated thymidylate synthase inhibition in human colon adenocarcinoma xenografts. Houghton JA, et al. **Cancer Res** 1990 Jul 1;50(13):3940–6

Blood group antigen synthesis and degradation in normal and cancerous colonic tissues. Itzkowitz SH, et al. **Gastroenterology** 1990 Aug;99(2):431–42

Coagulation disturbances in cancer of the breast and colon measured with specific monoclonal antibody enzyme immunoassay for fibrin-fibrinogen degradation products. McCulloch P, et al. **Haemostasis** 1990;20(2):73–80

Serum 25-hydroxyvitamin D and colon cancer [letter; comment] Dunnigan MG, et al. **Lancet** 1990 Jan 13; 335(8681):111–2 Comment on: Lancet 1989 Nov 18;2(8673):1176–8.

Serum 25-hydroxyvitamin D and colon cancer: eight-year prospective study [see comments] Garland CF, et al. **Lancet** 1989 Nov 18;2(8673):1176–8 Comment in: Lancet 1990 Jan 13;335(8681):111–2.

Pre- and postsurgery activation of blood coagulation in gastric and large bowel cancers: diagnostic, therapeutic and prognostic hints. Abbasciano V, et al. **Oncology** 1990; 47(3):261–6

Serial determinations of serum CEA in monitoring management of patients with colorectal carcinoma. Behbehani AI, et al. **Oncology** 1990;47(4):303–7

Surveillance strategies after resection of carcinoma of the colon and rectum. Fantini GA, et al. **Surg Gynecol Obstet** 1990 Sep;171(3):267–73 (58 ref.)

Prospective monitoring trial for carcinoma of colon and rectum after surgical resection. Wanebo HJ, et al. **Surg Gynecol Obstet** 1989 Dec;169(6):479–87

[Blood cholesterol in patients with cancer] Abeatici S, et al. **Minerva Med** 1989 Oct;80(10):1085–90 (Eng. Abstr.) **(Ita)**

[Serum cholesterol and triglycerides in patients with benign and malignant tumors of the colon and rectum] Kostić N, et al. **Srp Arh Celok Lek** 1989 May-Jun;117(5–6):325–34 (Eng. Abstr.) **(Sec)**

BLOOD SUPPLY

Role of tumor necrosis factor in flavone acetic acid-induced tumor vasculature shutdown. Mahadevan V, et al. **Cancer Res** 1990 Sep 1;50(17):5537–42

Microvascular architecture of experimental colon tumors in the rat. Skinner SA, et al. **Cancer Res** 1990 Apr 15; 50(8):2411–7

[Studies on the microcirculatory architecture in five colonic neoplasms] Sun XF. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Jun;19(2):133–5 (Eng. Abstr.) **(Chi)**

CHEMICALLY INDUCED

Re: "Fried foods and the risk of colon cancer" [letter; comment] Schiffman MH, et al. **Am J Epidemiol** 1990 Feb; 131(2):376–8 Comment on: Am J Epidemiol 1988 Nov;128(5):1000–6.

Growth-related enzyme activities in crypt compartments during rat colon carcinogenesis. Lamprecht SA, et al. **Anticancer Res** 1990 May-Jun;10(3):773–8

The effect of endotoxin on 1,2-dimethylhydrazine-induced colonic tumors in rats. Chen MF, et al. **Cancer** 1990 Apr 15;65(8):1748–52

Dietary butyrate (tributyrin) does not enhance AOM-induced colon tumorigenesis. Deschner EE, et al. **Cancer Lett** 1990 Jun 30;52(1):79–82

Lack of modifying effects of linolic acid hydroperoxides and their secondary oxidative products on combined 7,12-dimethylbenz[a]anthracene and 1,2-dimethylhydrazine-initiated mammary gland, ear duct and colon carcinogenesis in female Sprague-Dawley rats. Hirose M, et al. **Cancer Lett** 1989 Sep 15;47(1-2):141–7

Effect of dietary cellulose on cell proliferation and progression of 1,2-dimethylhydrazine-induced colon carcinogenesis in rats. Heitman DW, et al. **Cancer Res** 1989 Oct 15;49(20):5581–5

Effects of dietary perilla oil, soybean oil and safflower oil on 7,12-dimethylbenz[a]anthracene (DMBA) and 1,2-dimethyl-hydrazine (DMH)-induced mammary gland and colon carcinogenesis in female SD rats. Hirose M, et al. **Carcinogenesis** 1990 May;11(5):731–5

1,2-Dimethylhydrazine-induced carcinogenesis influenced by different colonic anastomoses in rats. Rokitansky A, et al. **Eur Surg Res** 1989;21(3–4):184–9

Studies on experimental colon tumorigenesis in rats. 1. Strain differences in incidence, location and tumor types of 1, 2-dimethylhydrazine-induced tumors. Naito Y. **Hiroshima J Med Sci** 1981 Dec;30(4):355–62

Tissue norepinephrine depletion as a mechanism for cysteamine inhibition of colon carcinogenesis induced by azoxymethane in Wistar rats. Tatsuta M, et al. **Int J Cancer** 1989 Dec 15;44(6):1008–11

The influence of dietary levels of vitamin A and fat on colon cancer. Newberne PM, et al. **Nutr Cancer** 1990;13(4):235–42

[Does hypolipemic treatment predispose to colonic cancer?] Harvengt C, et al. **Acta Gastroenterol Belg** 1988 Nov-Dec; 51(6):521–4 (18 ref.) (Eng. Abstr.) **(Fre)**

CLASSIFICATION

Small, nonpolypoid colonic neoplasms [letter] Smyrk TC, et al. **Dis Colon Rectum** 1990 Sep;33(9):814–5

COMPLICATIONS

Streptococcus bovis brain abscess associated with an occult colonic villous adenoma. Emiliani VJ, et al. **Am J Gastroenterol** 1990 Jan;85(1):78–80 (9 ref.)

Malacoplakia of the colon in association with colonic adenocarcinoma. Moran CA, et al. **Am J Gastroenterol** 1989 Dec;84(12):1580–2

Primary adenocarcinoma arising at an ileostomy site: an unusual cause of bowel obstruction. Ewing HP, et al. **Aust N Z J Surg** 1989 Nov;59(11):898–9

Streptococcus bovis bacteraemia: its significance for the colorectal surgeon. Grieve DA, et al. **Aust N Z J Surg** 1990 Jul;60(7):550–2

Cyclical rectal bleeding in colorectal endometriosis. Levitt MD, et al. **Aust N Z J Surg** 1989 Dec;59(12):941–3

A case of rectal bleeding in infancy. Leighton DM, et al. **Australas Radiol** 1990 Feb;34(1):89–90

Management of obstructed and perforated large bowel carcinoma. Matheson NA. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):671–97 (89 ref.)

Carcinoma of colon in inguinal hernial sacs. Lees W. **Br J Surg** 1966 May;53(5):473–4

Colon cancer and polyps in acromegaly: increased risk associated with family history of colon cancer. Brunner JE, et al. **Clin Endocrinol (Oxf)** 1990 Jan;32(1):65–71

Dysplasia and cancer complicating strictures in ulcerative colitis. Lashner BA, et al. **Dig Dis Sci** 1990 Mar; 35(3):349–52

Is there an association between gastric polyps and colonic neoplasms? Shemesh E, et al. **Digestion** 1989;42(4):212–6

Colonic leiomyoma—an unusual cause of gastrointestinal hemorrhage in childhood. Report of a case. Cummings SP, et al. **Dis Colon Rectum** 1990 Jun;33(6):511–4

Spontaneous bacterial peritonitis in malignant ascites. Gupta R, et al. **Indian J Gastroenterol** 1990 Jul;9(3):239

Perforated adenocarcinoma of the colon during pregnancy. Jaffe R, et al. **Int J Gynaecol Obstet** 1989 Dec;30(4):371–3

Unusual varicella zoster virus infection in a patient with colon carcinoma and Evans syndrome—delayed virus shedding generalized recurrent necrotic herpes zoster. Hata S, et al. **J Dermatol** 1990 May;17(5):326–8

Leiomyosarcoma of the transverse colon in a neonate: a rare cause of meconium peritonitis. Nagaya M, et al. **J Pediatr Surg** 1989 Nov;24(11):1177–80 (13 ref.)

Faecoptysis as the presenting symptom of colonic carcinoma. Winocour PH, et al. **J R Soc Med** 1989 Jul;82(7):441

Cerebral venous thrombosis as the presenting feature of colonic adenocarcinoma [letter] Ryan J, et al. **Med J Aust** 1990 Aug 20;153(4):234

Cancer in inguinal hernias. Knecht JW. **N J Med** 1990 Jun; 87(6):485–7

Carcinoma of the colon associated with systemic sclerosis. Marino C, et al. **N Y State J Med** 1990 Feb;90(2):73–4

Acute renal failure associated with dermatomyositis and colon cancer. Park SK, et al. **Nephron** 1990;55(2):225–6

Nonfamilial turcot syndrome presenting with astrocytoma—case report. Takayama H, et al. **Neurol Med Chir (Tokyo)** 1989 Jul;29(7):606–9

Prognostic and therapeutic observations of manifestations in the genitourinary tract of adenocarcinoma of the colon and rectum. Lee PH, et al. **Surg Gynecol Obstet** 1989 Dec; 169(6):511–8

Severe hypotension in disseminated colon cancer due to a possible decreased dopamine brain content: a case report. Lissoni P, et al. **Tumori** 1990 Aug 31;76(4):398–9

[Acute left colonic obstruction of neoplastic origin. Study of a series of 128 cases] Barth X, et al. **Chirurgie** 1989;115 Suppl 2:133–41 (Eng. Abstr.) **(Fre)**

[Obstructive colonic cancer. Apropos of 148 cases of G.E.R.C.V.] Dromer M, et al. **Chirurgie** 1989;115 Suppl 2:127–9 **(Fre)**

[Emergency surgery of acute obstruction due to left colonic cancer. Conclusions of the Academy] Guivarc'h M. **Chirurgie** 1989;115 Suppl 2:151–2 **(Fre)**

[Treatment of acute obstruction due to left colonic cancer] Malafosse M, et al. **Chirurgie** 1989;115 Suppl 2:123–6 (Eng. Abstr.) **(Fre)**

[Must we reject primary colostomy in left colonic obstruction caused by cancer?] Parc R, et al. **Chirurgie** 1989;115 Suppl 2:112–6 (Eng. Abstr.) **(Fre)**

[Obstructive left colonic cancer. Retrospective analysis of the therapeutic attitude in a series of 40 recent cases] Patel JC, et al. **Chirurgie** 1989;115 Suppl 2:119–22 (Eng. Abstr.) **(Fre)**

[Left colonic obstruction surgically treated as an emergency. Reflection apropos of 52 obstructive left colonic cancers surgically treated] Testas P, et al. **Chirurgie** 1989;115 Suppl 2:145–7 **(Fre)**

[Colonic cancer disclosed by eosinophil pneumopathy (letter)] Bacq Y, et al. **Gastroenterol Clin Biol** 1989 Oct; 13(10):849 **(Fre)**

[Symptoms of confusion in the elderly—differential diagnostic considerations] Schax M, et al. **Med Klin** 1989 Aug 15;84(8):411–3 **(Ger)**

[Ileus caused by epithelioid leiomyoblastoma of the large intestine] Hopfer F, et al. **Zentralbl Chir** 1989;114(14):950–3 **(Ger)**

[Primary resection in occlusions caused by cancer of the left colon] De Petris U, et al. **G Chir** 1989 Jul-Aug; 10(7-8):391–4 (Eng. Abstr.) **(Ita)**

[Neoplastic occlusion of the right colon] Corbucci Vitolo G, et al. **Minerva Chir** 1990 Apr 15;45(7):461–2 (Eng. Abstr.) **(Ita)**

[A case of colo-colic (transverse colon) invagination of voluminous polypoid lipoma in an adult] De Mattei GF, et al. **Minerva Chir** 1990 Apr 15;45(7):517–22 (Eng. Abstr.) **(Ita)**

[Intestinal invagination caused by submucous pedunculated lipoma of the large intestine] Falcetto G, et al. **Minerva Chir** 1990 Apr 15;45(7):523–6 (Eng. Abstr.) **(Ita)**

[Lipoma of the large intestine] Voghera P, et al. **Minerva Chir** 1990 Mar 31;45(6):425–7 (Eng. Abstr.) **(Ita)**

[A case of malignant carcinoid arising in chronic ulcerative colitis] Provera P, et al. **Pathologica** 1989 Jul-Aug; 81(1074):447–52 (Eng. Abstr.) **(Ita)**

[Carcinoma complicating ulcerative colitis. Analysis of 8 Japanese cases] Imamura S. **Fukuoka Igaku Zasshi** 1990 Jan;81(1):5–19 (Eng. Abstr.) **(Jpn)**

[Infectious endocarditis due to Streptococcus bovis with suspected relationship with colon cancer] Sogo T, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):835–9 **(Jpn)**

[A case of pseudotumor cerebri associated with colon cancer] Takenaka N, et al. **No To Shinkei** 1989 Aug;41(8):825–9 (Eng. Abstr.) **(Jpn)**

[Advanced abdominal cancer. Treatment of complications] Grimsgaard S, et al. **Tidsskr Nor Laegeforen** 1990 Feb 20; 110(5):587–9 (Eng. Abstr.) **(Nor)**

[Intralymphatic antibiotic therapy of inflammatory complications in colonic cancer] Bondar' GB, et al. **Klin Khir** 1990;(2):32–3 (Eng. Abstr.) **(Rus)**

[Tissue polypeptide antigen in the early diagnosis of suppurative-inflammatory complications in patients with surgically treated colon cancer] Evtushenko OI, et al. **Vrach Delo** 1990 Mar;(3):93–5 (Eng. Abstr.) **(Rus)**

[Kaposi's pseudosarcoma with leiomyoma of the large intestine] Janković D, et al. **Vojnosanit Pregl** 1989 Nov-Dec;46(6):467–9 **(Scr)**

[Obstructive uropathy in Gardner's syndrome. Intra-abdominal desmoid tumor] Olivier Gómez CM, et al. **Actas Urol Esp** 1989 Sep-Oct;13(5):329–38 (39 ref.) (Eng. Abstr.) **(Spa)**

[Neoplasm of the colon and Barrett esophagus (editorial)] De Arzúa Zulaica E. **Rev Esp Enferm Apar Dig** 1989 Sep; 76(3):253–4 **(Spa)**

[Hemangiomatous lesions with lymphangiectasias in the large intestine] Abad Hernández MM, et al. **Rev Esp Enferm Dig** 1990 Mar;77(3):221–3 (10 ref.) (Eng. Abstr.) **(Spa)**

[Cancer of the colon and hypernephroma: an association not so infrequent (letter)] Bianchi A, et al. **Rev Esp Enferm Dig** 1990 May;77(5):386 **(Spa)**

[Myxoglobulosis of the cecal appendix] Guionmet N, et al. **Rev Esp Enferm Dig** 1990 May;77(5):365–7 (Eng. Abstr.)

(Spa)

[Benign coloduodenal fistula caused by inflammatory pseudotumor of the colon] Ruiz Jauregui zuria JC, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):59–63 (Eng. Abstr.) (Spa)

[Multiple familial polyposis. Report of 4 cases and association with mucinous adenocarcinoma of the colon] Velázquez-Macías RF, et al. **Rev Gastroenterol Mex** 1989 Oct–Dec;54(4):231–7 (Eng. Abstr.) (Spa)

DIAGNOSIS

Synchronous and early metachronous carcinomas of the colon and rectum. Greig JD, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):287–9

Diagnosis of thyroid metastasis of colonic adenocarcinoma by fine needle aspiration biopsy. Cristallini EG, et al. **Acta Cytol** 1990 May–Jun;34(3):363–5

Colonic anisakiasis simulating carcinoma of the colon [letter] Shirahama M, et al. **AJR Am J Roentgenol** 1990 Oct; 155(4):895

Ornithine decarboxylase: an unreliable marker for the identification of population groups at risk for colonic neoplasia. Braverman DZ, et al. **Am J Gastroenterol** 1990 Jun;85(6):723–6

Colon cancer surveillance in chronic ulcerative colitis: historical cohort study. Lashner BA, et al. **Am J Gastroenterol** 1990 Sep;85(9):1083–7

Inguinal herniation justifies sigmoidoscopy. Lovett J, et al. **Am J Surg** 1989 Dec;158(6):615–6; discussion 616–7

Endometriosis of the colon. Its diagnosis and management. Collin GR, et al. **Am Surg** 1990 May;56(5):275–9

A rapid and simple in vitro method for evaluating human colorectal epithelial proliferation. Darmon E, et al. **Arch Pathol Lab Med** 1990 Aug;114(8):855–7

Colon-cancer screening in dialysis patients. Ajam M, et al. **Artif Organs** 1990 Apr;14(2):95–7

General practitioners' awareness of colorectal cancer: a 10 year review. Dixon AR, et al. **BMJ** 1990 Jul 21; 301(6744):152–3

Magnetic resonance spectroscopy in cancer research. Smith IC, et al. **Can Assoc Radiol J** 1990 Feb;41(1):32–8 (21 ref.)

Inguinal herniation justifies sigmoidoscopy. Read RC. **Curr Surg** 1990 Jul–Aug;47(4):278–9

Endoscopic diagnosis of small flat carcinoma of the colon. Report of three cases. Hunt DR, et al. **Dis Colon Rectum** 1990 Feb;33(2):143–7

Cecocolic intussusception in multiple lymphomatous polyposis of the gastrointestinal tract. Report of a case. Jalleh RP, et al. **Dis Colon Rectum** 1990 May;33(5):424–6

African histoplasmosis masquerading as carcinoma of the colon. Report of a case and review of literature. Khalil M, et al. **Dis Colon Rectum** 1989 Jun;32(6):518–20 (14 ref.)

Endoscopic ultrasonography in the evaluation of colon and rectal disease. Rösch T, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2 Suppl):S33–9 (35 ref.)

Fecal occult blood test—the importance of proper evaluation. Niv Y. **J Clin Gastroenterol** 1990 Aug;12(4):393–5

Lymphangioma of the ascending colon [letter] Yamamoto J, et al. **J Clin Gastroenterol** 1989 Oct;11(5):598–9

Reasons for participation and nonparticipation in a colorectal cancer screening program for a cohort of high risk polypropylene workers. Vernon SW, et al. **J Occup Med** 1990 Jan;32(1):46–51

Colon carcinoma complicating pregnancy. A report of two cases. Van Voorhis B, et al. **J Reprod Med** 1989 Nov; 34(11):923–7 (25 ref.)

Detection and surveillance of colorectal cancer [letter; comment] Ragozzino MW. **JAMA** 1990 Jan 19; 263(3):374–5 Comment on: JAMA 1989 Jan 27;261(4):580–5.

Colonic sonography [letter; comment] **Lancet** 1990 Jun 16; 335(8703):1457–8 Comment on: Lancet 1990 Jan 20;335(8682):144–6.

Diagnosis of large bowel tumours by colonic sonography [see comments] Limberg B. **Lancet** 1990 Jan 20; 335(8682):144–6 Comment in: Lancet 1990 Jun 16;335(8703):1457–8.

Cancer of the colon: medicolegal considerations. Shafer N, et al. **Leg Med** 1989;:113–24 (30 ref.)

Colonic lipomas. Endoscopic and radiologic characteristics. Marin GA, et al. **N J Med** 1990 Apr;87(4):301–3

Advanced colon cancer: staging and prognosis by CEA test. Barone C, et al. **Oncology** 1990;47(2):128–32

Screening for colorectal cancer [letter; comment] Rodney WM. **Postgrad Med** 1990 Feb 1;87(2):29–30 Comment on: Postgrad Med 1989 Aug;86(2):213–20, 223–4.

Colonic polyps and cancer. Jauregui HO, et al. **R I Med J** 1989 Sep;72(9):317–22 (29 ref.)

Ultrasound and CT evaluation of pedunculated gastrointestinal lipomas. Skaane P, et al. **Radiologe** 1990 Jan;30(1):12–4

The diagnosis of colorectal cancer—experiences from the community of Kungsbacka, Sweden. Månsson J. **Scand J Prim Health Care** 1990 Mar;8(1):31–5

Inflammatory bowel disease and cancer surveillance [editorial] Farmer RG. **Singapore Med J** 1989 Dec; 30(6):517–8

Early diagnosis of cancers of colon, pancreas, stomach, and lung by automated tube leukocyte adherence inhibition assay. Tataryn DN, et al. **Surg Forum** 1978;29:130–2

Colonoscopy in Jamaica—a 12-year experience. Lee MG, et al. **West Indian Med J** 1989 Dec;38(4):213–6

[Study of the tissue localization of carcinoembryonic antigen in tumors of the colonic mucosa] Markova E, et al. **Eksp Med Morfol** 1989;28(4):12–6 (Eng. Abstr.) (Bul)

[Is synchronous hemorrhoidectomy with colonoscopy a worthwhile procedure?] Hung YJ, et al. **Chung Hua I Hsueh Tsa Chih** 1989 May;43(5):317–20 (Eng. Abstr.) (Chi)

[Carcinoembryonal antigen and the follow up of patients after resection of colon carcinoma with curative intent: a Markov process in decision analysis] Kievit J, et al. **Ned Tijdschr Geneeskd** 1989 Sep 9;133(36):1784–9 (Eng. Abstr.) (Dut)

[Abdominal echography in colonic diseases] Schmutz G, et al. **J Radiol** 1990 Feb;71(2):85–92 (Eng. Abstr.) (Fre)

[Soft skin fibromas: study of their importance and diagnostic significance for colonic neoplasms] Ochsendorf FR, et al. **Hautarzt** 1990 Apr;41(4):207–11 (Eng. Abstr.) (Ger)

[Colon endosonography. Initial experiences in clinical use] Lorenz R, et al. **Med Klin** 1990 Feb 15;85(2):57–60 (Eng. Abstr.) (Ger)

[Non-Hodgkin's lymphoma of the descending colon in a 6-year-old girl] Sigmund G, et al. **Monatsschr Kinderheilkd** 1989 Dec;137(12):787–90 (Eng. Abstr.) (Ger)

[Febrile status (clinical conference)] Barandun J, et al. **Schweiz Rundsch Med Prax** 1989 Oct 24;78(43):1197–9 (Eng. Abstr.) (Ger)

[Diagnosis of tumors of the large intestine by colonic ultrasound] Limberg B. **Ultraschall Med** 1990 Jun; 11(3):127–31 (Eng. Abstr.) (Ger)

[Tumor markers in colorectal neoplasm pathology: our experience of the diagnostic and prognostic importance of CEA antigen] Tessera G, et al. **Chir Ital** 1988 Dec; 40(6):377–87 (Eng. Abstr.) (Ita)

[Microspectrophotometric DNA analysis in ulcerative colitis with special reference to its application for cancer and dysplasia diagnosis] Suzuki K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2196–203 (Eng. Abstr.) (Jpn)

[Determination of the level of carcinoembryonic antigen—a prognostic test of the effectiveness of radical treatment in cancer of the large intestine] Moroz GS, et al. **Klin Khir** 1990;(5):41–2 (Rus)

[A case of post-traumatic diaphragmatic hernia diagnosed as colonic cancer] Ognerubov NA, et al. **Klin Khir** 1989; (10):54–5 (Rus)

[Characteristics of the clinical course and difficulties in the diagnosis of cancer of the right half of the colon] Knysh VI, et al. **Klin Med (Mosk)** 1989 Nov;67(11):85–9 (Rus)

[The diagnosis and treatment of intestinal obstruction in colonic cancer] Briskin BS, et al. **Vestn Khir** 1989 Oct; 143(10):123–5 (Rus)

[Luminescent laparoscopic diagnosis of disseminated cancer of the colon] Polsachev VI, et al. **Vestn Khir** 1990 Feb; 144(2):124–6 (Rus)

[Colonoscopy as primary procedure in the diagnosis of colonic neoplasms] Monserat R, et al. **GEN** 1989 Apr–Jun; 43(2):97–9 (Eng. Abstr.) (Spa)

DIET THERAPY

Effects of dietary wheat bran fiber on rectal epithelial cell proliferation in patients with resection for colorectal cancers. Alberts DS, et al. **J Natl Cancer Inst** 1990 Aug 1;82(15):1280–5

DRUG THERAPY

In vitro and in vivo inhibition of thymidylate synthase of human colon cancer by 5-fluorouracil. Peters GJ, et al. **Adv Exp Med Biol** 1989;253A:439–45

A phase II study of carboplatin and CHIP in patients with metastatic colon carcinoma. Asbury RF, et al. **Am J Clin Oncol** 1989 Oct;12(5):416–9

Phase II trial of 10-Edam in patients with advanced colorectal carcinoma. Kemeny N, et al. **Am J Clin Oncol** 1990 Feb;13(1):42–4

Sulfasalazine alters the character of dimethylhydrazine-induced colorectal carcinoma in rats. Andrianopoulos GD, et al. **Anticancer Res** 1989 Nov–Dec; 9(6):1725–8

5-Fluorouracil plus leucovorin as adjuvant treatment of an experimental liver tumor in rats. Carlsson G, et al. **Anticancer Res** 1990 May–Jun;10(3):813–6

Serum concentrations of amiodarone required for an in vivo modulation of anthracycline resistance. Genne P, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1655–9

Differential effects of 2,2'-anhydro-5-ethyluridine, a uridine phosphorylase inhibitor, on the antitumor activity of 5-fluorouridine and 5-fluoro-2'-deoxyuridine. Iigo M, et al. **Biochem Pharmacol** 1990 Apr 1;39(7):1247–53

Effect of 5-fluorouracil combination therapy on RNA processing in human colonic carcinoma cells. Greenhalgh DA, et al. **Br J Cancer** 1990 Mar;61(3):415–9

Synergism between 5-fluorouracil and N-methylformamide in HT29 human colon cancer line. Laudonio N, et al. **Br J Cancer** 1990 Mar;61(3):377–81

Granulocyte-macrophage colony stimulating factor (GM-CSF) after high-dose melphalan in patients with advanced colon cancer. Steward WP, et al. **Br J Cancer** 1990 May;61(5):749–54

Photodynamic therapy for colorectal cancer: a quantitative pilot study. Barr H, et al. **Br J Surg** 1990 Jan;77(1):93–6

Characterization of the anti-tumour activity against solid tumours of a new nitrosoureido sugar: Cy 233. Atassi G, et al. **Cancer Chemother Pharmacol** 1989;25(3):205–9

Effects of 5-fluorouracil on cytotoxicity and RNA metabolism in human colonic carcinoma cells. Greenhalgh DA, et al. **Cancer Chemother Pharmacol** 1989;25(1):37–44

Extremely prolonged continuous intraperitoneal infusion of cytosine arabinoside. Kirmani S, et al. **Cancer Chemother Pharmacol** 1990;25(6):454–8

The influence of Na+,K(+)-pump blockade on doxorubicin-mediated cytotoxicity and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Cancer Chemother Pharmacol** 1990;26(3):163–7

Biochemical modulation of 5-fluoropyrimidine toxicity by dehydroepiandrosterone in human colonic adenocarcinoma cells. Nyce J, et al. **Cancer Commun** 1990;2(6):213–7

Effects of methotrexate-carcinoembryonic-antigen-antibody immunoconjugates on GW-39 human tumors in nude mice. Shih LB, et al. **Cancer Immunol Immunother** 1990; 31(4):197–201

Potentiation of natural killer cell activity and tumor immunity by diacetylputrescine. Bowlin TL, et al. **Cancer Res** 1990 Sep 1;50(17):5460–3

Antitumor efficacy of PD115934 (NSC 366140) against solid tumors of mice. LoRusso P, et al. **Cancer Res** 1990 Aug 15;50(16):4900–5

Antitumor activity of indomethacin in mice bearing advanced colon 26 carcinoma compared with those with early transplants. Tanaka Y, et al. **Cancer Res** 1989 Nov 1; 49(21):5935–9

Reduced folates and fluoropyrimidine antitumor efficacy. Houghton JA, et al. **Cancer Treat Res** 1989;42:23–43 (116 ref.)

Combination therapy of ACNU and ifosfamide in tumor bearing mice with M2661 breast cancer, B16 malignant melanoma or C38 colon cancer. Silbermann MH, et al. **Eur J Cancer** 1990 Mar;26(3):321–5

Phase I–II trial of doxifluridine (5'DFUR) administered as long-term continuous infusion using a portable infusion pump for advanced colorectal cancer. Schuster D, et al. **Eur J Cancer Clin Oncol** 1989 Nov;25(11):1543–8

Selective necrosis in dimethylhydrazine-induced rat colon tumors using phthalocyanine photodynamic therapy. Barr H, et al. **Gastroenterology** 1990 Jun;98(6):1532–7

5-Fluorouracil plus levamisole: effective adjuvant treatment for colon cancer. Hamilton JM, et al. **Important Adv Oncol** 1990;:115–30 (149 ref.)

Heavy water enhances the antineoplastic effect of 5-fluoro-uracil and bleomycin in nude mice bearing human carcinoma. Altermatt HJ, et al. **Int J Cancer** 1990 Mar 15;45(3):475–80

Selection of a DTPA chelate conjugate for monoclonal antibody targeting to a human colonic tumor in nude mice. Sharkey RM, et al. **Int J Cancer** 1990 Jul 15;46(1):79–85

Primary and metastatic liver lesions of clinical colorectal cancer differ in chemosensitivity. Maehara Y, et al. **Int J Colorectal Dis** 1990 May;5(2):87–9

Acute myocardiotoxicity during 5-fluorouracil therapy. Misset B, et al. **Intensive Care Med** 1990;16(3):210–1

Schedule-dependency of in vivo modulation of 5-fluorouracil by leucovorin and uridine in murine colon carcinoma. Nadal JC, et al. **Invest New Drugs** 1989 Jul; 7(2–3):163–72

2-Deoxy-D-glucose inhibits the antitumor effects of alpha-difluoromethylornithine on the growth of colon cancer in vivo. Saydjari R, et al. **Invest New Drugs** 1989 Jul;7(2–3):131–8

Efficacy and toxicity of 5-fluorouracil and folates in advanced colon cancer. Cortesi E, et al. **J Chemother** 1990 Feb;2 Suppl 1:47–50

Levamisole toxicity [letter] [published erratum appears in J Clin Oncol 1990 May;8(5):943] DeLorenzo L, et al. **J Clin Oncol** 1990 Feb;8(2):365

Prospective randomized comparison of fluorouracil versus fluorouracil and high-dose continuous infusion leucovorin calcium for the treatment of advanced measurable colorectal cancer in patients previously unexposed to chemotherapy. Doroshow JH, et al. **J Clin Oncol** 1990 Mar; 8(3):491–501

Fluorouracil, interferon-alpha, and colon cancer: rational pursuit of synergism between antimetabolites and biologicals [editorial; comment] Ernstoff MS, et al. **J Clin Oncol** 1989 Dec;7(12):1764–5 Comment on: J Clin Oncol 1989 Dec;7(12):1769–75.

Phase I trial of murine monoclonal antibody L6 in breast, colon, ovarian, and lung cancer. Goodman GE, et al. **J Clin Oncol** 1990 Jun;8(6):1083–92

Is portal-vein fluorouracil hepatic infusion effective colon cancer surgical adjuvant therapy? [comment] O'Connell MJ. **J Clin Oncol** 1990 Sep;8(9):1454–6 Comment on: J Clin Oncol 1990 Sep;8(9):1466–75.

Adjuvant therapy of Dukes' A, B, and C adenocarcinoma of the colon with portal-vein fluorouracil hepatic infusion: preliminary results of National Surgical Adjuvant Breast and Bowel Project Protocol C-02 [see comments] Wolmark N, et al. **J Clin Oncol** 1990 Sep;8(9):1466–75 Comment in: J Clin Oncol 1990 Sep;8(9):1454–6.

Adjuvant therapy benefits Dukes' C colon cancer patients [news] Smigel K. **J Natl Cancer Inst** 1989 Nov 1; 81(21):1605–7

Colon cancer update triggers changes in practice [news] Vanchieri C. **J Natl Cancer Inst** 1990 Jun 6;82(11):898

Combination therapy of colon carcinoma 26 in mice with recombinant human interleukin-2 and interferon-alpha A/D: occurrence of large granular cells in the tumor. Sakura Y, et al. **Jpn J Cancer Res** 1989 Sep;80(9):895–903

The effect of UFTM therapy on primary and metastatic colon cancer from the same human xenotransplanted into nude mice. Takahashi Y, et al. **Jpn J Surg** 1990 Jul;20(4):406–10

Influence of adenosine cyclic nucleotide analogs on growth of human colon tumor cell lines. Saba MV, et al. **Life Sci** 1990;47(4):307–11

Superior vena cava syndrome associated with a Hickman catheter. Kerr HD. **N Y State J Med** 1990 Apr;90(4):208–10

Adriamycin response of two human tumor xenografts using a double-radiolabel organ culture method. Sullivan JL, et al. **Neoplasma** 1989;36(6):685–90

From NCCTG, Mayo: two characteristics that identify poor-prognosis B2 colon cancer patients who might benefit from adjuvant chemotherapy [news] **Oncology (Williston Park)** 1990 Jul;4(7):138–9

Clinical trials referral resource. Adjuvant treatment of colon cancer. Cheson BD. **Oncology (Williston Park)** 1989 Sep; 3(9):98–101, 106–8

Clinical trials referral resource. Adjuvant therapy for colon cancer. Cheson BD. **Oncology (Williston Park)** 1990 Apr; 4(4):67–9, 74, 79–84

Pros and cons of infusional 5-FU as adjuvant therapy for colon cancer [letter] Macdonald JS. **Oncology (Williston Park)** 1990 Jan;4(1):67

DNA topoisomerase I—targeted chemotherapy of human colon cancer in xenografts. Giovanella BC, et al. **Science** 1989 Nov 24;246(4933):1046–8

The role of drug sequence in therapeutic selectivity of the combination of 5-fluorouracil and cis-platin. Palmeri S, et al. **Sel Cancer Ther** 1989 Winter;5(4):169–77

Intraperitoneal 5-fluorouracil infusion for treatment of both peritoneal and liver micrometastases. Archer S, et al. **Surgery** 1990 Sep;108(3):502–7

[Current status of chemotherapy for colonic, rectal and anal carcinoma] Herrmann R. **Schweiz Rundsch Med Prax** 1990 Jul 17;79(29–30):896–8 (Eng. Abstr.) **(Ger)**

[Treatment with UFT as surgical adjuvant chemotherapy in carcinoma of large intestine. Cooperative Study Group of Surgical Adjuvant Chemotherapy for Colorectal Cancer in Japan] Kikuchi K, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):663–70 (Eng. Abstr.) **(Jpn)**

[Cooperative study of surgical adjuvant chemotherapy of colorectal carcinoma (second study): a preliminary report. Cooperative Study Group of Surgical Adjuvant Chemotherapy of Colorectal Cancer in Japan] Kodaira S, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3399–408 (Eng. Abstr.) **(Jpn)**

[Cooperative study of surgical adjuvant chemotherapy of colorectal carcinoma (second study): 3-year survival after surgery of non-curatively resected patients. Cooperative Study Group of Surgical Adjuvant Chemotherapy of Colorectal Cancer in Japan] Kunitomo K, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3409–15 (Eng. Abstr.) **(Jpn)**

[Antitumor activity and cell cycle effects of delta 12-PGJ2 in vivo] Nishimura G. **Nippon Gan Chiryo Gakkai Shi** 1990 Mar 20;25(3):632–9 (Eng. Abstr.) **(Jpn)**

[Antitumor effect of alpha-difluoromethylornithine (DFMO) changes in ornithine decarboxylase (ODC) activity and polyamine (PA) levels in human tumor transplanted into nude mice] Umemoto S. **Nippon Geka Gakkai Zasshi** 1989 May;90(5):650–60 (Eng. Abstr.) **(Jpn)**

[The selective toxicity of 5-hydroxymethyldeoxyuridine for the cells of human adenocarcinoma of the large intestine] Lockshin A, et al. **Vopr Onkol** 1989;35(11):1327–32 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Utilization of kininase activities as indicators of malignant disease. Amato A, et al. **Adv Exp Med Biol** 1989;247B:483–4

The targeting of agmatine-liganded mitomycin C to an enzyme on the surface of tumour cells. Steven FS, et al. **Anticancer Res** 1990 May-Jun;10(3):583–9

Enzymatic conversion of 5-fluoro-2'-deoxyuridine to 5-fluorouracil or 5-fluoro-2'-deoxyuridine 5'-monophosphate in human tissues. Uchida M, et al. **Anticancer Res** 1990 May-Jun;10(3):779–83

Immunohistochemical localization of sodium-potassium-stimulated adenosine triphosphatase and carbonic anhydrase in human colon and colonic neoplasms. Gramlich TL, et al. **Arch Pathol Lab Med** 1990 Apr; 114(4):415–9

Phosphofructokinase 2 and glycolysis in HT29 human colon adenocarcinoma cell line. Regulation by insulin and phorbol esters. Denis-Pouxviel C, et al. **Biochem J** 1990 Jun 1;268(2):465–70

Modulation of alkaline phosphatases in LoVo, a human colon carcinoma cell line. Herz F, et al. **Biochim Biophys Acta** 1989 Oct 9;1013(3):259–65

Adenocarcinoma, adenomas and polyps of the colon. Histochemical study. Czernobilsky B, et al. **Cancer** 1968 Feb;21(2):165–77

Depletion of O6-alkylguanine-DNA alkyltransferase activity in mammalian tissues and human tumor xenografts in nude mice by treatment with O6-methylguanine. Dolan ME, et al. **Cancer Chemother Pharmacol** 1989;25(2):103–8

1,2-Dimethylhydrazine-induced alterations in protein kinase C activity in the rat preneoplastic colon. Baum CL, et al. **Cancer Res** 1990 Jul 1;50(13):3915–20

Expression of mitochondrial cytochrome c oxidase in human colonic cell differentiation, transformation, and risk for colonic cancer. Heerdt BG, et al. **Cancer Res** 1990 Mar 1;50(5):1596–600

Urokinase secretion from human colon carcinomas induced by endogenous diglycerides. Marian B, et al. **Cancer Res** 1990 Apr 15;50(8):2245–50

Glutathione S-transferases in normal and cancerous human colon tissue. Peters WH, et al. **Carcinogenesis** 1989 Dec; 10(12):2371–4

Biosynthesis of alkaline phosphatase during differentiation of the human colon cancer cell line Caco-2. Matsumoto H, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1199–207

Prevalence of nucleoside diphosphate kinase autophosphorylation in human colon carcinoma versus normal colon homogenates. Francis B, et al. **Mol Carcinog** 1989;2(3):168–78

Human colon tumor cell line LS174T drug metabolizing system. Hammond DK, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):95–105

[Polyamine metabolism errors in colorectal polyps and adenocarcinoma of human origin (letter)] Lointier P, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):946–7 **(Fre)**

[A study of ornithine decarboxylase activity in tumor tissue and rectal mucosa in patients with colorectal cancer or adenoma] Murakami S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1260–5 (Eng. Abstr.) **(Jpn)**

[Activity of proteolytic enzymes and their inhibitors in large intestine tumors] Varbanets VF. **Vopr Med Khim** 1990 Mar-Apr;36(2):33–5 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

A prospective study of the prevalence of colonic neoplasms in asymptomatic patients with an age-related risk. Johnson DA, et al. **Am J Gastroenterol** 1990 Aug;85(8):969–74

Reproductive factors and colon cancers. Peters RK, et al. **Br J Cancer** 1990 May;61(5):741–8

The risk of subsequent primary malignant diseases after cancers of the colon and rectum. A nationwide cohort study. Enblad P, et al. **Cancer** 1990 May 1;65(9):2091–100

Coffee and tea consumption in relation to the risk of large bowel cancer: a review of epidemiologic studies. Rosenberg L. **Cancer Lett** 1990 Jul 31;52(3):163–71 (46 ref.)

Large-bowel cancer in the young: a national survival study. Isbister WH, et al. **Dis Colon Rectum** 1990 May;33(5):363–6

The influence of dairy and nondairy calcium on subsite large-bowel cancer risk. Stemmermann GN, et al. **Dis Colon Rectum** 1990 Mar;33(3):190–4

Incidence of colo-rectal cancer in Moscow. Zaridze DG, et al. **Int J Cancer** 1990 Mar 15;45(3):583–5

Diet and survival of patients with colon cancer in Utah: is there an association? Slattery ML, et al. **Int J Epidemiol** 1989 Dec;18(4):792–7

Colorectal cancer incidence among Chinese in North America and the People's Republic of China: variation with sex, age and anatomical site. Whittemore AS. **Int J Epidemiol** 1989 Sep;18(3):563–8

Influence of age on the surgical treatment of cancer of the colon. Păunescu V, et al. **Med Interne** 1989 Apr-Jun; 27(2):107–13

Colon cancer in the active duty population. Ruffin WK. **Milit Med** 1990 Feb;155(2):47–9

Calcium, dairy products, and colorectal cancer. Negri E, et al. **Nutr Cancer** 1990;13(4):255–62

Incidence of colonic cancer in inflammatory bowel disease. Binder V. **Scand J Gastroenterol Suppl** 1989;170:78; discussion 81–2

Analysis of case-control data with covariate measurement error: application to diet and colon cancer. Armstrong BG, et al. **Stat Med** 1989 Sep;8(9):1151–63; discussion 1165–6

[Trends in the incidence of colorectal cancer at the Department of Côte-d'Or between 1976 and 1985] Pillon D, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):860–4 (Eng. Abstr.) **(Fre)**

[Descriptive epidemiology of malignant tumors of the colon and rectum] La Rosa F, et al. **Ann Ig** 1989 Sep-Oct; 1(5):899–922 (Eng. Abstr.) **(Ita)**

[Multiple primary cancers associated with gynecologic malignancies] Shinohara M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jun;42(6):561–6 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Clinico-anatomical study of juvenile polyps in Asturias] García García D, et al. **An Esp Pediatr** 1989 Dec; 31(6):589–90 (Eng. Abstr.) **(Spa)**

[Epidemiology of cancer of the colon and the rectum in Asturias (1977–1981)] De Llano Rodríguez I, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 2):660–8 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Studies in longstanding ulcerative colitis with special reference to malignant transformation of the colorectal mucosa. Löfberg R. **Acta Chir Scand Suppl** 1989;552:1–45

Shift from a mixed to a lactovegetarian diet: influence on acidic lipids in fecal water—a potential risk factor for colon cancer. Allinger UG, et al. **Am J Clin Nutr** 1989 Nov; 50(5):992–6

The risks of cancers of the colon and rectum in relation to coffee consumption. Rosenberg L, et al. **Am J Epidemiol** 1989 Nov;130(5):895–903

Dietary intake and colon cancer: sex- and anatomic site-specific associations. West DW, et al. **Am J Epidemiol** 1989 Nov;130(5):883–94

Cholecystectomy and colon cancer. Berkel J, et al. **Am J Gastroenterol** 1990 Jan;85(1):61–4

Colonic metaplasia of ileostomies. Biological significance for ulcerative colitis patients following total colectomy. Berman JJ, et al. **Am J Surg Pathol** 1989 Nov;13(11):955–60

Juvenile polyposis: a premalignant condition? Platell C, et al. **Aust N Z J Surg** 1990 Jun;60(6):481–2

Experimental colonic carcinogenesis after gastric surgery. Houghton PW, et al. **Br J Surg** 1990 Jul;77(7):774–8

Modification of DNA by bile acids: a possible factor in the etiology of colon cancer. Cheah PY, et al. **Cancer Lett** 1990 Mar;49(3):207–10

Risks associated with source of fiber and fiber components in cancer of the colon and rectum. Freudenheim JL, et al. **Cancer Res** 1990 Jun 1;50(11):3295–300

Effect of different levels of calorie restriction on azoxymethane-induced colon carcinogenesis in male F344 rats. Kumar SP, et al. **Cancer Res** 1990 Sep 15;50(18):5761–6

Interactive effects of dietary wheat bran and lard on N-methyl-N'-nitro-N-nitrosoguanidine-induced colon carcinogenesis in rats. Sinkeldam EJ, et al. **Cancer Res** 1990 Feb 15;50(4):1092–6

Hazard rates for dysplasia and cancer in ulcerative colitis. Results from a surveillance program. Lashner BA, et al. **Dig Dis Sci** 1989 Oct;34(10):1536–41

Effect of change of fecal bile acid excretion achieved by operative procedures on 1,2-dimethylhydrazine-induced colon cancer in rats. Morvay K, et al. **Dis Colon Rectum** 1989 Oct;32(10):860–3

Free radicals and the etiology of colon cancer. Babbs CF. **Free Radic Biol Med** 1990;8(2):191–200 (90 ref.)

Colonic mucus and mucosal glycoproteins: the key to colitis and cancer? Rhodes JM. **Gut** 1989 Dec;30(12):1660–6 (35 ref.)

Dysplasia and cancer in ulcerative colitis. Desaint B, et al. **Hepatogastroenterology** 1989 Aug;36(4):219–26 (60 ref.)

Summary report of the sixth symposium on cancer registries and epidemiology in the Pacific Basin. Henderson BE. **J Natl Cancer Inst** 1990 Jul 18;82(14):1186–90

Effects of sodium sulfate on fecal pH and proliferation of colonic mucosa in patients at high risk for colon cancer. Kashtan H, et al. **J Natl Cancer Inst** 1990 Jun 6;82(11):950–2

Industrial exposure and colorectal cancer [letter] Lashner BA, et al. **J Natl Cancer Inst** 1990 Oct 3;82(19):1579

Mucosal proliferation characteristics in ureterosigmoidostomy: effect of calcium supplement. Weber T, et al. **J Pediatr Surg** 1990 Jan;25(1):130–2; discussion 133

Considerations of surveillance, dysplasia, and carcinoma of the colon in the management of ulcerative colitis and Crohn's disease. Korelitz BI. **Med Clin North Am** 1990 Jan; 74(1):189–99 (35 ref.)

The influence of pre- and postnatal caloric intake on colon carcinogenesis. Newberne PM, et al. **Nutr Cancer** 1990; 13(3):165–73

Folate, colitis, dysplasia, and cancer. Mason JB. **Nutr Rev** 1989 Oct;47(10):314–7

The intestinal microflora and the colon cancer connection. Gorbach SL, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 2:S252–61 (74 ref.)

Intestinal transit time as an important factor in the pathogenesis of dimethyl-hydrazine-induced rat colon cancer. Baker AR, et al. **Surg Forum** 1978;29:491–2

The role of nitrate, nitrite and N-nitrosamines in carcinogenesis of colon tumours following ureterosigmoidostomy. Kälble T, et al. **Urol Res** 1990; 18(2):123–9

[Blood transfusion and prognosis of colorectal canmcer] Mecklin JP, et al. **Duodecim** 1989;105(19):1602–6 (22 ref.) **(Fin)**

[Is there a relationship between cholecystectomy and colonic cancer?] Heller FR. **Acta Gastroenterol Belg** 1988 Nov-Dec;51(6):517–20 (25 ref.) (Eng. Abstr.) **(Fre)**

[Dietary lipids and experimental colonic carcinogenesis. Critical review of the literature] Wilpart M. **Acta Gastroenterol Belg** 1989 Jul-Oct;51(4–5):357–64 (25 ref.) (Eng. Abstr.) **(Fre)**

[The natural history of tumors in cancerogenesis after ureterosigmoidostomy. III. Hypotheses on cancerogenesis after ureterocolic implantations] Daher N, et al. **J Urol (Paris)** 1989;95(4):195–8 (65 ref.) **(Fre)**

[Colonic neoplasms and skin fibromas: common determinants and their significance] Leopolder-Ochsendorf A, et al. **Klin Wochenschr** 1990 Jan 19;68(2):83–8 (Eng. Abstr.) **(Ger)**

[The role of bile in the development of colon cancer induced by 1,2-dimethyl hydrazine in rats] Morvay K, et al. **Orv Hetil** 1989 Sep 17;130(38):2033–5 (Eng. Abstr.) **(Hun)**

[Cancer of the colon and cholelithiasis: bile bacteria, composition of the stones and the bile] Gafà M, et al. **Ann Ital Chir** 1989 Jul-Aug;60(4):283–90 (Eng. Abstr.) **(Ita)**

[The role of bile acids with physiological concentration in colon carcinogenesis] Ugajin H. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug;86(8):1617–26 (Eng. Abstr.) **(Jpn)**

[Dietary factors and risk of colon cancer] Skraastad O.

Tidsskr Nor Laegeforen 1990 Jan 10;110(1):32–4 (Eng. Abstr.) (Nor)
[Megas and cancer. Cancer of the large intestine in chagasic patients with megacolon] Meneses AC, et al. Arq Gastroenterol 1989 Jan–Jun;26(1–2):13–6 (31 ref.) (Eng. Abstr.) (Por)
[Development of metachronous tumors of the colon] Strekalovskiĭ VP, et al. Klin Med (Mosk) 1990 Jan; 68(1):95–100 (Eng. Abstr.) (Rus)
[Adenocarcinoma of the colon. Occurrence on colonocystoplasty] Llarena Ibarguren R, et al. Arch Esp Urol 1989 Jun;42(5):459–61 (Eng. Abstr.) (Spa)
[Changing to lactovegetarian food decreases the level of certain cancer related agents in feces] Johansson G, et al. Lakartidningen 1989 Dec 27;86(52):4628–30 (Swe)

GENETICS

Simulation of recessive transmission in the combined data of polyposis coli and cancer of the colon [letter] Sit KH. Am J Hum Genet 1990 Jan;46(1):179–82
PCR cloning and sequence of gastrin mRNA from carcinoma cell lines. Baldwin GS, et al. Biochem Biophys Res Commun 1990 Jul 31;170(2):691–7
Independent prognostic value of ploidy in colorectal cancer. A prospective study using image cytometry. Albe X, et al. Cancer 1990 Sep 15;66(6):1168–75
Characteristics of familial colon cancer in a large population data base. Cannon–Albright LA, et al. Cancer 1989 Nov 1;64(9):1971–5
An immunohistochemical analysis of ras oncogene expression in epithelial neoplasms of the colon. Jansson DS, et al. Cancer 1990 Mar 15;65(6):1329–37
Detection of chromosome aberrations in interphase tumor nuclei by nonradioactive in situ hybridization. Nederlof PM, et al. Cancer Genet Cytogenet 1989 Oct 1;42(1):87–98
Rectal epithelial proliferation characteristics of first degree relatives of sporadic colon cancer patients. Rozen P, et al. Cancer Lett 1990 May 30;51(2):127–32
Molecular cloning of complementary DNAs encoding alkaline phosphatase in human colon cancer cells. Gum JR, et al. Cancer Res 1990 Feb 15;50(4):1085–91
Investigation of cytokine gene expression in human colorectal cancer. Naylor MS, et al. Cancer Res 1990 Jul 15; 50(14):4436–40
Colonoscopy in patients with a primary family history of colon cancer [letter] McConnell JC. Dis Colon Rectum 1990 Mar;33(3):259
Colonoscopy in patients with a primary family history of colon cancer. McConnell JC, et al. Dis Colon Rectum 1990 Feb;33(2):105–7
c-Ki-ras mutations in chronic ulcerative colitis and sporadic colon carcinoma. Burmer GC, et al. Gastroenterology 1990 Aug;99(2):416–20
Subtraction hybridization cDNA libraries from colon carcinoma and hepatic cancer. Schweinfest CW, et al. Genet Anal Tech Appl 1990 May;7(3):64–70
K-ras mutations (codon 12) are not involved in down-regulation of MHC class-I genes in colon carcinomas. Oliva MR, et al. Int J Cancer 1990 Sep 15; 46(3):426–31
Expression of the ErbA-beta class of thyroid hormone receptors is selectively lost in human colon carcinoma. Markowitz S, et al. J Clin Invest 1989 Nov;84(5):1683–7
Widespread radiopacity of jaw bones in familial adenomatosis coli. Kubo K, et al. J Craniomaxillofac Surg 1989 Nov; 17(8):350–3
Human eosinophils express transforming growth factor alpha. Wong DT, et al. J Exp Med 1990 Sep 1;172(3):673–81
Ras gene activation and epidermal growth factor receptor expression in human colon cancer. Ravikumar TS, et al. J Surg Res 1989 Nov;47(5):418–22
A study of colonic adenocarcinoma, with comparison of histopathology, DNA flow cytometric data, and number of nucleolar organizer regions (NORs). Kram N, et al. Mod Pathol 1989 Sep;2(5):468–72
Increased levels of phorbin, c-myc, and ornithine decarboxylase RNAs in human colon cancer. Guillem JG, et al. Mol Carcinog 1990;3(2):68–74
Genetic analysis of an inherited predisposition to colon cancer in a family with a variable number of adenomatous polyps. Leppert M, et al. N Engl J Med 1990 Mar 29; 322(13):904–8
The Lynch syndrome; a high-risk factor for colorectal carcinoma. Biert J, et al. Neth J Surg 1989 Oct;41(5):108–10
Detection of minority point mutations by modified PCR technique: a new approach for a sensitive diagnosis of tumor-progression markers. Haliassos A, et al. Nucleic Acids Res 1989 Oct 25;17(20):8093–9
DNA ploidy, tumour site, and prognosis in colorectal cancer. A flow cytometric study of paraffin-embedded tissue. Halvorsen TB, et al. Scand J Gastroenterol 1990 Feb; 25(2):141–8
Southern and dot blot analysis of DNA from formalin-fixed, paraffin-embedded tissue samples from colonic carcinomas. Moerkerk PT, et al. Virchows Arch [B] 1990;58(5):351–5
[Nuclear DNA content in tumors of the colon and rectum. Relationship between ploidy and site of the neoplasm] Larghero GC, et al. Minerva Chir 1990 Mar 15;45(5):247–50 (Eng. Abstr.) (Ita)
[Gene analysis of polyposis and colonic carcinoma] Sasazuki T, et al. Gan No Rinsho 1989 May;Spec No:137–44 (15 ref.) (Jpn)
[Chromosome analysis of adenomatosis coli and colon carcinoma] Ikeuchi T, et al. Rinsho Byori 1989 Feb;Spec No 80:258–67 (Jpn)
[Loss of heterozygosity in human tumors] Sasaki M, et al. Rinsho Byori 1989 Feb;Spec No 80:47–57 (Jpn)
[Chromosomes and cancer of the colon (editorial)] De Juan Martín M. Rev Esp Enferm Apar Dig 1989 Nov;76(5):473 (Spa)

IMMUNOLOGY

Tumour adjacent macrophage function in experimental tumours. Holmberg SB, et al. Anticancer Res 1990 Mar–Apr;10(2A):407–9
Induction of the expression of differentiation-related antigens on human colon carcinoma cells by stimulating protein kinase C. Baron PL, et al. Arch Surg 1990 Mar; 125(3):344–50
Metastatic potential of colon carcinoma. Expression of ABO/Lewis-related antigens. Hoff SD, et al. Arch Surg 1990 Feb;125(2):206–9
A monoclonal antibody directed to Tn antigen. Numata Y, et al. Biochem Biophys Res Commun 1990 Aug 16; 170(3):981–5
A new conjugating agent for radioiodination of proteins: low in vivo deiodination of a radiolabeled antibody in a tumor model. Srivastava PC, et al. Biotechniques 1990 May; 8(5):536–45
Expression of MHC class II, interleukin 2 receptor and CD45 antigens on tumour-associated T lymphocytes in colonic carcinoma. Norazmi MN, et al. Br J Cancer 1989 Nov; 60(5):685–7
Preliminary observations on the microdistribution of labelled antibodies in human colonic adenocarcinoma xenografts: relevance to microdosimetry. Pedley RB, et al. Br J Cancer 1990 Feb;61(2):218–20
Human IgM monoclonal antibody 16.88: pharmacokinetics and distribution in mouse and man. Haisma HJ, et al. Br J Cancer Suppl 1990 Jul;10:40–3
An analysis of immunocomplexes for the detection of the early stages of colon cancer. Chester SJ, et al. Cancer 1990 Mar 15;65(6):1338–44
Utility and cost of carcinoembryonic antigen monitoring in colon cancer follow-up evaluation. A Markov analysis. Kievit J, et al. Cancer 1990 Jun 1;65(11):2580–7
Lymphokine-activated killer cell induction in tumor-infiltrating leukocytes from colon cancer patients. Staren ED, et al. Cancer 1989 Dec 1;64(11):2238–42
The effects of adverse growth conditions on the shedding of carcinoembryonic antigen from cultured LS180 colon cancer cells. Adams GL, et al. Cancer Commun 1990; 2(2):73–80
Homogeneous penetration but heterogeneous binding of antibodies to carcinoembryonic antigen in human colon carcinoma HT-29 spheroids. Carlsson J, et al. Cancer Immunol Immunother 1989;30(5):269–76
Biological characterization of a chimeric mouse-human IgM antibody directed against the 17-1A antigen. Fogler WE, et al. Cancer Immunol Immunother 1989;30(1):43–50
Rat serum antibodies binding to high-molecular-weight glycoprotein(s) on syngeneic colon carcinomas, demonstrated by competition with rat monoclonal antibody. Jansson B, et al. Cancer Immunol Immunother 1989;30(2):105–12
Selective immunosuppressive action of a factor produced by colon cancer cells. Ebert EC, et al. Cancer Res 1990 Oct 1;50(19):6158–61
Murine monoclonal antibodies to colon-specific antigen p. Gold DV, et al. Cancer Res 1990 Oct 1;50(19):6405–9
Enhancement of monoclonal antibody uptake in human colon tumor xenografts following irradiation. Kalofonos H, et al. Cancer Res 1990 Jan 1;50(1):159–63
Comparative pharmacokinetics of a murine monoclonal antibody to a rat colon tumor in rats and nude mice. Laborda J, et al. Cancer Res 1990 Feb 1;50(3 Suppl):873s–876s
Human IgG3 monoclonal antibody directed to an unbranched repeating type 2 chain (Gal beta 1——4GlcNAc beta 1——3Gal beta 1——4GlcNAc beta 1——3Gal beta 1——R) which is highly expressed in colonic and hepatocellular carcinoma. Miyake M, et al. Cancer Res 1989 Oct 15;49(20):5689–95
Tumor-associated antigens common to humans and chemically induced colonic tumors of the rat. Shetye JD, et al. Cancer Res 1990 Oct 1;50(19):6358–63
Monoclonal antibody recognizing a carcinoembryonic antigen epitope differentially expressed in human colonic carcinoma versus normal adult colon tissues. Zhang HZ, et al. Cancer Res 1989 Oct 15;49(20):5766–73
Interleukin-2 production by tumor cells bypasses T helper function in the generation of an antitumor response. Fearon ER, et al. Cell 1990 Feb 9;60(3):397–403
Comparative study of carcinoembryonic antigen and epithelial membrane antigen expression in normal colon, adenomas and adenocarcinomas of the colon and rectum. Davidson BR, et al. Gut 1989 Sep;30(9):1260–5
Colonic epithelium reactive monoclonal antibodies. Identification and immunohistochemical localization of the target epitopes. Verstijnen CP, et al. Histochemistry 1989; 92(5):397
Recognition of a high molecular weight glycoprotein (HMW-GP) associated with rat colon cancer cells by rat monoclonal antibodies. Jansson B, et al. Hybridoma 1989 Oct;8(5):493–505
Density and phenotype of tumour-associated mononuclear cells in colonic carcinomas determined by computer-assisted video image analysis. Norazmi MN, et al. Immunology 1990 Feb;69(2):282–6
Influence of animal host and tumor implantation site on radio-antibody uptake in the GW-39 human colonic cancer xenograft. Blumenthal RD, et al. Int J Cancer 1989 Dec 15;44(6):1041–7
Biodistribution and histological localization of anti-human colon cancer monoclonal antibody (MAb) 1A3: the influence of administered MAb dose on tumor uptake. Fenwick JR, et al. Int J Cancer 1989 Dec 15;44(6):1017–27
Expression of TAG-72 in normal colon, transitional mucosa, and colon cancer. Xu M, et al. Int J Cancer 1989 Dec 15;44(6):985–9
Antigenic modulation and internalization of monoclonal antibody to human colonic carcinoma cells detected by enzyme-linked immunosorbent assay. Yokota T, et al. Int J Cancer 1989 Dec 15;44(6):1095–9
A series of disialogangliosides with binary 2——3 sialosyllactosamine structure, defined by monoclonal antibody NUH2, are oncodevelopmentally regulated antigens. Nudelman ED, et al. J Biol Chem 1989 Nov 5; 264(31):18719–25
Quantitation of the host cell infiltration kinetics of the nonimmunogenic colon 26 tumor by multiparameter flow cytometry. Sneed RA, et al. J Leukoc Biol 1989 Dec; 46(6):547–55
Immunohistochemical demonstration of human papilloma virus antigen in human colon neoplasms. Kirgan D, et al. J Surg Res 1990 May;48(5):397–402
Griffonia simplicifolia agglutinin-2-binding glycoprotein as a novel carbohydrate antigen of human colonic carcinoma. Nakayama J, et al. Jpn J Cancer Res 1990 Apr;81(4):388–95
Leukocyte antigen CD34 is expressed by a subset of cultured endothelial cells and on endothelial abluminal microprocesses in the tumor stroma. Schlingemann RO, et al. Lab Invest 1990 Jun;62(6):690–6
Expression of MHC class I and class II antigens in colonic carcinomas. Norazmi M, et al. Pathology 1989 Oct; 21(4):248–53
99mTc-labeled monoclonal anti-carcinoembryonic antigen antibody (BW 431/26). Clinical results in the detection of colorectal carcinomas and recurrences. Lind P, et al. Scand J Gastroenterol 1989 Dec;24(10):1205–11
T-cell recognition of HLA class II molecules induced by gamma-interferon on a colonic adenocarcinoma cell line (HT29). Lundin KE, et al. Scand J Immunol 1990 Apr; 31(4):469–75
Modulation of cancer patients' immune responses by administration of anti-idiotypic antibodies. Herlyn D, et al. Viral Immunol 1989 Winter;2(4):271–6
[Expression of CA 19-9 in tubular and tubulovillous adenomas of the descending and sigmoid colon and the rectum with respect to morphologic differentiation characteristics and the adenoma-carcinoma sequence] Capek P, et al. Sb Lek 1990 May;92(5):129–34 (Eng. Abstr.) (Cze)
[Sensitivity and specificity of CEA, Ca 15-3 and MCA levels in visceral breast carcinoma metastasis] Delbrück H, et al. Strahlenther Onkol 1990 Jul;166(7):457–9 (Eng. Abstr.) (Ger)
[Immunohistochemical study of the localization and distributional patterns of CA 19-9 and CEA in primary and metastatic nodal lesions of gastrointestinal cancer] Deguchi H, et al. Gan No Rinsho 1990 Jul;36(8):890–4 (Eng. Abstr.) (Jpn)

METABOLISM

Glycosylation in human colorectal mucosa during tumor development studied by lectins. Kolář Z, et al. Acta Univ Palacki Olomuc Fac Med 1989;122:127–36
Fluoropyrimidine metabolism in human head and neck cancer xenografts and murine colon tumors. Laurensse EJ, et al. Adv Exp Med Biol 1989;253B:327–34
Fodrin as a differentiation marker. Redistributions in colonic neoplasia. Younes M, et al. Am J Pathol 1989 Dec; 135(6):1197–212
Regulation of distribution, amount and ligand affinity of sugar receptors in human colon carcinoma cells by treatment with sodium butyrate, retinoic acid and phorbol ester. Gabius S, et al. Anticancer Res 1990 Jul–Aug;10(4):1005–12
CEA in colonic adenocarcinomas and precancerous lesions. An immunohistochemical study with a novel monoclonal antibody. Tormo BR, et al. APMIS 1989 Dec; 97(12):1073–80
Biosynthesis of fucose containing lacto-series glycolipids in human colonic adenocarcinoma Colo 205 cells. Holmes EH, et al. Arch Biochem Biophys 1989 Nov 1;274(2):633–47
The presence of a 33–40 KDa gastrin binding protein on human and mouse colon cancer. Chicone L, et al. Biochem Biophys Res Commun 1989 Oct 16;164(1):512–9
Direct demonstration of the active salvage of preformed purines by murine tumors. Johnson DL, et al. Biochem Biophys Res Commun 1990 Aug 16;170(3):1164–9
Agonist-induced desensitization of cholinergically stimulated phosphoinositide breakdown is independent of endogenously activated protein kinase C in HT-29 human colon carcinoma cells. Kopp R, et al. Biochem J 1990 Jul 1;269(1):73–8

Comparison of intracellular drug retention, DNA damage and cytotoxicity of derivatives of doxorubicin and daunorubicin in a human colon adenocarcinoma cell line (LoVo). Belvedere G, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3713–21

Studies on the cellular pharmacology of N-(4-methylphenylsulfonyl)-N'-(4-chlorophenyl)-urea. Houghton PJ, et al. **Biochem Pharmacol** 1990 Apr 1; 39(7):1187–92

Retention of in vivo antipyrimidine effects of Brequinar sodium (DUP-785; NSC 368390) in murine liver, bone marrow and colon cancer. Peters GJ, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):135–44

Persistent intracellular binding of mitoxantrone in a human colon carcinoma cell line. Roberts RA, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4283–90

Rapid and steady-state amino acid transport in perfused human fibroblasts and colon adenocarcinoma cells: effects of methotrexate. Perán S, et al. **Biochim Biophys Acta** 1990 May 24;1024(2):233–40

Metabolic changes in undifferentiated and differentiated human colon adenocarcinoma cells studied by multinuclear magnetic resonance spectroscopy. Galons JP, et al. **Biochimie** 1989 Aug;71(8):949–61

Accumulation characteristics of human colon carcinomas after monoclonal antibody ex vivo perfusion. Löhde E, et al. **Br J Cancer Suppl** 1990 Jul;10:12–4

Comparative metabolism and pharmacokinetics of doxorubicin and 4'-epidoxorubicin in plasma, heart and tumor of tumor-bearing mice. van der Vijgh WJ, et al. **Cancer Chemother Pharmacol** 1990;26(1):9–12

Tissue distribution of [18F]-5-fluorouracil in mice: effects of route of administration, strain, tumour and dose. Visser GW, et al. **Cancer Chemother Pharmacol** 1990;26(3):205–9

Comparison of the conversion of 5-formyltetrahydrofolate and 5-methyltetrahydrofolate to 5,10-methylenetetrahydrofolates and tetrahydrofolates in human colon tumors. Houghton JA, et al. **Cancer Commun** 1989;1(3):167–74

Insensitivity of laminin degradation directed by receptor bound urokinase to PAI-1 in cultured colon cancer. Schlechte JW, et al. **Cancer Commun** 1990;2(8):261–9

5-Fluorouracil enhances azidothymidine cytotoxicity: in vitro, in vivo, and biochemical studies. Brunetti I, et al. **Cancer Res** 1990 Jul 1;50(13):4026–31

Effect of sulfonation on the cell and tissue distribution of the photosensitizer aluminum phthalocyanine. Chan WS, et al. **Cancer Res** 1990 Aug 1;50(15):4533–8

Evidence for deficiency of low density lipoprotein receptor on human colonic carcinoma cell lines. Fabricant M, et al. **Cancer Res** 1990 Feb 1;50(3):632–6

Effect of liposome composition and other factors on the targeting of liposomes to experimental tumors: biodistribution and imaging studies. Gabizon A, et al. **Cancer Res** 1990 Oct 1;50(19):6371–8

Relationship between dose rate of [6RS]Leucovorin administration, plasma concentrations of reduced folates, and pools of 5,10-methylenetetrahydrofolates and tetrahydrofolates in human colon adenocarcinoma xenografts. Houghton JA, et al. **Cancer Res** 1990 Jun 15; 50(12):3493–502

Evidence for mitochondrial localization of N-(4-methylphenylsulfonyl)-N'-(4-chlorophenyl)urea in human colon adenocarcinoma cells. Houghton PJ, et al. **Cancer Res** 1990 Feb 1;50(3):664–8

Soluble factor in normal tissues that stimulates high-molecular-weight sialoglycoprotein production by human colon carcinoma cells. Irimura T, et al. **Cancer Res** 1990 Jun 1;50(11):3331–8

31P magnetic resonance spectroscopy of human colon cancer. Kasimos JN, et al. **Cancer Res** 1990 Feb 1; 50(3):527–32

Absence of preferential uptake of [125I]iododihydrorhodamine 123 by four human tumor xenografts. Kinsey BM, et al. **Cancer Res** 1989 Nov 1; 49(21):5986–8

Role for cytosolic folate-binding proteins in the compartmentation of endogenous tetrahydrofolates and the 5-formyl tetrahydrofolate-mediated enhancement of 5-fluoro-2'-deoxyuridine antitumor activity in vitro. Matherly LH, et al. **Cancer Res** 1990 Jun 1;50(11):3262–9

Examination of the role of the urokinase receptor in human colon cancer mediated laminin degradation. Schlechte W, et al. **Cancer Res** 1989 Nov 1;49(21):6064–9

Biodistribution and radiation dose estimates for yttrium- and iodine-labeled monoclonal antibody IgG and fragments in nude mice bearing human colonic tumor xenografts. Sharkey RM, et al. **Cancer Res** 1990 Apr 15;50(8):2330–6

Biological characterization of multidrug-resistant human colon carcinoma sublines induced/selected by two methods. Yang LY, et al. **Cancer Res** 1990 Jun 1; 50(11):3218–25

Decrease in polylactosaminoglycans associated with lysosomal membrane glycoproteins during differentiation of CaCo-2 human colonic adenocarcinoma cells. Youakim A, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6889–95

DNA synthetic activity in tumor-bearing mice. Waldrop RD, et al. **Chronobiol Int** 1989;6(3):237–43

Disposition of a murine monoclonal antibody vinca conjugate (KS1/4-DAVLB) in patients with adenocarcinomas. Schneck D, et al. **Clin Pharmacol Ther** 1990 Jan;47(1):36–41

Collagen metabolism in human colon adenocarcinoma. Turnay J, et al. **Connect Tissue Res** 1989;23(4):251–60

Methane excretion and experimental colonic carcinogenesis. Flick JA, et al. **Dig Dis Sci** 1990 Feb;35(2):221–4

Human HT-29 colon carcinoma cells contain muscarinic M3 receptors coupled to phosphoinositide metabolism. Kopp R, et al. **Eur J Pharmacol** 1989 Oct 17;172(4–5):397–405

Increased cell surface EGF receptor expression during the butyrate-induced differentiation of human HCT-116 colon tumor cell clones. Nathan DF, et al. **Exp Cell Res** 1990 Sep;190(1):76–84

Uncoupling of sodium chloride transport in premalignant mouse colon. Davies RJ, et al. **Gastroenterology** 1990 Jun; 98(6):1502–8

The transport of vitamin B12 through polarized monolayers of Caco-2 cells. Dix CJ, et al. **Gastroenterology** 1990 May; 98(5 Pt 1):1272–9

CEA as a cell adhesion molecule. Lance MP. **Gastroenterology** 1990 Jul;99(1):277–8

Sialylation and metastatic colon cancer. Lance MP. **Gastroenterology** 1990 Aug;99(2):564–5

Immunohistochemical analysis of the binding of human IgM to secretory component present in normal adult colon epithelia, but not in colon cancer and fetal colon epithelia. Ditzel H, et al. **Histochemistry** 1990;94(1):95–9

Secretory glycoconjugates of a mucin-synthesizing human colonic adenocarcinoma cell line. Analysis using double labeling with lectins. Phillips TE, et al. **Histochemistry** 1990;93(3):311–7

Immunoreactivity of tumor-associated glycoprotein (TAG-72) in normal, hyperplastic, and neoplastic colon. Listrom MB, et al. **Hum Pathol** 1989 Oct;20(10):994–1000

Biochemical and NMR studies on structure and release conditions of RNA-containing vesicles shed by human colon adenocarcinoma cells. Ceccarini M, et al. **Int J Cancer** 1989 Oct 15;44(4):714–21

Effect of VIP on the glycogen metabolism of human colon adenocarcinoma cells studied by 13C nuclear magnetic resonance spectroscopy. Galons JP, et al. **Int J Cancer** 1990 Jan 15;45(1):168–73

Inhibitory effect of quercetin on the synthesis of a possibly cell-cycle-related 17-kDa protein, in human colon cancer cells. Hosokawa N, et al. **Int J Cancer** 1990 Jun 15; 45(6):1119–24

Metabolism of low-density lipoprotein in differentiated and undifferentiated HT29 colon cancer cells. Viallard V, et al. **Int J Cancer** 1990 Aug 15;46(2):320–5

Altered expression of chondroitin sulfate proteoglycan in the stroma of human colon carcinoma. Hypomethylation of PG-40 gene correlates with increased PG-40 content and mRNA levels. Adany R, et al. **J Biol Chem** 1990 Jul 5; 265(19):11389–96

Inhibition of mucin glycosylation by aryl-N-acetyl-alpha-galactosaminides in human colon cancer cells. Kuan SF, et al. **J Biol Chem** 1989 Nov 15; 264(32):19271–7

Sialic acid histochemistry and the adenoma-carcinoma sequence in colorectum. Agawa S, et al. **J Clin Pathol** 1990 Jul;43(7):527–32

Computer analysis of double labeling: ultrastructural distribution of vasoactive intestinal peptide and transferrin in human colon cancer cells. Lefevre C, et al. **J Histochem Cytochem** 1990 Sep;38(9):1257–66

In vivo tumor targeting of a recombinant single-chain antigen-binding protein. Colcher D, et al. **J Natl Cancer Inst** 1990 Jul 18;82(14):1191–7

Pharmacokinetic studies of mouse monoclonal antibodies to a rat colon carcinoma: I. Comparison of biodistribution in normal rats, syngeneic tumor-bearing rats, or tumor-bearing nude mice. Laborda J, et al. **J Nucl Med** 1990 Jun;31(6):1028–34

Intracellular glutathione levels in human colon cancer cells naturally resistant to cross-linking agents. Ozawa S, et al. **J Pharmacobiodyn** 1989 Jul;12(7):378–83

Evidence for a nutritional need for glutamine in catabolic patients. Fürst P, et al. **Kidney Int Suppl** 1989 Nov; 27:S287–92 (44 ref.)

Lectin-binding sites in neoplastic and non-neoplastic colonic mucosa of 1,2-dimethylhydrazine-treated rats. Calderó J, et al. **Lab Invest** 1989 Dec;61(6):670–6

Receptors for and bioresponses to 1,25-dihydroxyvitamin D in a human colon carcinoma cell line (HT-29). Harper KD, et al. **Metabolism** 1989 Nov;38(11):1062–9

Phenolic and tyrosyl ring iodothyronine deiodination by the Caco-2 human colon carcinoma cell line. Lee JK, et al. **Metabolism** 1989 Dec;38(12):1154–61

Changes in intestinal function of rats initiated with DMH and fed varying levels of butterfat, calcium, and magnesium. Behling AR, et al. **Nutr Cancer** 1990; 13(3):189–99

Pharmacokinetics of a mouse/human chimeric monoclonal antibody (C-17-1A) in metastatic adenocarcinoma patients. Trang JM, et al. **Pharm Res** 1990 Jun;7(6):587–92

Plasminogen-activator inhibitor type 1 is a potent natural inhibitor of extracellular matrix degradation by fibrosarcoma and colon carcinoma cells. Cajot JF, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):6939–43

Tumor trapping of 5-fluorouracil: in vivo 19F NMR spectroscopic pharmacokinetics in tumor-bearing humans and rabbits. Wolf W, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):492–6

Sucrase-isomaltase: a marker associated with the progression of adenomatous polyps to adenocarcinomas. Wiltz O, et al. **Surgery** 1990 Aug;108(2):269–75; discussion 275–6

[Expression of O-glycans during enterocytic differentiation of HT-29 cells] Ogier-Denis E, et al. **C R Acad Sci [III]** 1989;310(3):41–7 (Eng. Abstr.) **(Fre)**

[Study of tissue drug concentration of fluorinated pyrimidine anticancer drugs—comparison of 5'DFUR and UFT] Fukamura T, et al. **Gan To Kagaku Ryoho** 1990 Sep; 17(9):1887–92 (Eng. Abstr.) **(Jpn)**

[Host factors that changes the distribution of immunotoxin] Yamaguchi T, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):570–4 (11 ref.) (Eng. Abstr.) **(Jpn)**

[The influence of theophylline on polyamine metabolism and colonic carcinogenesis induced by 1.2-dimethylhydrazine in mice] Umemoto S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2379–86 (Eng. Abstr.) **(Jpn)**

[The content of bile acids in the feces of patients with cancer of the large intestine] Nemsadze GG, et al. **Lab Delo** 1990; (4):52–4 **(Rus)**

MICROBIOLOGY

Association of human papillomavirus and colon neoplasms. Kirgan D, et al. **Arch Surg** 1990 Jul;125(7):862–5

[Fecal intestinal flora in patients with colon adenoma and colon cancer] Kubota Y. **Nippon Shokakibyo Gakkai Zasshi** 1990 Mar;87(3):771–9 (Eng. Abstr.) **(Jpn)**

MORTALITY

Relationship between age and survival in cancer of the colon and rectum with special reference to patients less than 40 years of age. Enblad G, et al. **Br J Surg** 1990 Jun; 77(6):611–6

Outcome-based equity in the treatment of colon cancer patients in Finland. Hakama M, et al. **Int J Technol Assess Health Care** 1989;5(4):619–30

Colon cancer mortality among amputees [letter] Page WF, et al. **J Natl Cancer Inst** 1990 Jan 17;82(2):154–5

Epidermal growth factor prolongs survival time of tumor-bearing mice. Amagase H, et al. **Jpn J Cancer Res** 1990 May;81(5):495–500

[Significant correlations of mortality due to stomach and colonic cancer in Rosario with other neoplastic sites] Poletto LC, et al. **Acta Gastroenterol Latinoam** 1989; 19(1):35–40 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Demonstration of two ovarian tumor-associated antigens in primary and metastatic breast, gastric, and colonic tumors. McGuckin MA, et al. **Am J Clin Pathol** 1990 Aug; 94(2):137–41

Generalized juvenile polyposis with carcinoma. Bentley E, et al. **Am J Gastroenterol** 1989 Nov;84(11):1456–9 (25 ref.)

Heterotopic gastric and pancreatic tissue in large bowel. Duphare H, et al. **Am J Gastroenterol** 1990 Jan;85(1):68–71 (24 ref.)

Pseudoinvasion with high-grade dysplasia in a colonic adenoma. Distinction from adenocarcinoma. Pascal RR, et al. **Am J Surg Pathol** 1990 Jul;14(7):694–7

Neuroendocrine differentiation in "poorly differentiated" colon carcinomas. Staren ED, et al. **Am Surg** 1990 Jul; 56(7):412–9

Growth of human colorectal carcinoma implants in the mouse subrenal capsule assay. Kouri M, et al. **Ann Chir Gynaecol** 1989;78(2):110–4

Ulcerative colitis and colon cancer: the role of surveillance. Broström O. **Ann Med** 1989 Aug;21(4):309–11 (19 ref.)

Colorectal adenomas: clinical and morphological aspects. A review of 166 polyps from 124 Dutch patients. Griffioen G, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1685–9

Epidermal growth factor receptors in colorectal carcinoma. Moorghen M, et al. **Anticancer Res** 1990 May-Jun; 10(3):605–11

The effect of iron on experimental colorectal carcinogenesis. Nelson RL, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1477–82

Analysis of monoclonal antibodies for identification of antigens associated with tumours of the gastrointestinal tract. Yang GY, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1707–12

Transitional mucosa of colon. A morphological, histochemical, and immunohistochemical study. Robey-Cafferty SS, et al. **Arch Pathol Lab Med** 1990 Jan; 114(1):72–5

Patterns of human tumor-infiltrating lymphocytes in 120 human cancers. Balch CM, et al. **Arch Surg** 1990 Feb; 125(2):200–5

Sialic acid dependent cell adhesion to collagen IV correlates with in vivo tumorigenicity of the human colon carcinoma sublines HCT116, HCT116a and HCT116b. Morgenthaler J, et al. **Biochem Biophys Res Commun** 1990 Sep 14; 171(2):860–6

Cellular pharmacology of 5-fluorouracil in a human colon adenocarcinoma cell line selected for thymidine kinase deficiency. Radparvar S, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1759–65

Carboxypeptidase G2 and trimetrexate cause growth delay of human colonic cancer cells in vitro. Searle F, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1787–91

Enhancement of butyrate-induced differentiation of HT-29 human colon carcinoma cells by 1,25-dihydroxyvitamin

D3. Tanaka Y, et al. **Biochem Pharmacol** 1989 Nov 1; 38(21):3859–65

On the clonal origin of tumours—lessons from studies of intestinal epithelium. Schmidt GH, et al. **Bioessays** 1990 Jan;12(1):37–40 (16 ref.)

Effect of selenium on the growth of three human colon cancer cell lines. Nano JL, et al. **Biol Trace Elem Res** 1989 Apr–May;20(1–2):31–43

Using analytical morphometry to distinguish severe dysplasia and large bowel carcinoma. Bufo P, et al. **Boll Soc Ital Biol Sper** 1990 Feb;66(2):143–50

Effects of androgen manipulations on chemically induced colonic tumours and on macroscopically normal colonic mucosa in male Sprague–Dawley rats. Izbicki JR, et al. **Br J Cancer** 1990 Feb;61(2):235–40

Detection of the growth fraction in colorectal tumours by a monoclonal antibody against DNA polymerase alpha. Yamaguchi A, et al. **Br J Cancer** 1990 Mar;61(3):390–3

An unusual presentation of colorectal carcinoma. Gray M, et al. **Br J Clin Pract** 1989 Sep;43(9):344–5

Rectal and colonic carcinoids. A clinicopathologic study of 84 cases. Federspiel BH, et al. **Cancer** 1990 Jan 1; 65(1):135–40

Diffuse leiomyosarcomatosis of the colon. Zornig C, et al. **Cancer** 1990 Feb 1;65(3):570–2

Proteins excreted by primary human colon carcinoma cells (SW 480) promote spreading and growth of metastatic human colon carcinoma cells (SW 620) in serum–free medium. Grimmond HE, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):353–64

DNA damage and cytotoxicity of mitoxantrone and doxorubicin in doxorubicin–sensitive and –resistant human colon carcinoma cells. Capolongo L, et al. **Cancer Chemother Pharmacol** 1990;25(6):430–4

Clonal stimulation or inhibition of human colon carcinomas and human renal carcinomas mediated by transforming growth factor–beta 1. Fan D, et al. **Cancer Commun** 1989; 1(2):117–25

Effect on in vivo tumorigenicity of lengthy exposure of human colon cancer cells to the differentiation agent hexamethylene bisacetamide. Schroy P, et al. **Cancer Lett** 1989 Nov 15;48(1):53–8

Tumor localization by combinations of monoclonal antibodies in a new human colon carcinoma cell line (LIM1899). Andrew SM, et al. **Cancer Res** 1990 Sep 1;50(17):5225–30

Quantitative cytochemical detection of malignant and potentially malignant cells in the colon. Best AJ, et al. **Cancer Res** 1990 Aug 15;50(16):5112–8

Rectal cell proliferation and colon cancer risk in ulcerative colitis. Biasco G, et al. **Cancer Res** 1990 Feb 15;50(4):1156–9

Karyometric marker features in normal–appearing glands adjacent to human colonic adenocarcinoma. Bibbo M, et al. **Cancer Res** 1990 Jan 1;50(1):147–51

Interaction of gamma interferon and 5–fluorouracil in the H630 human colon carcinoma cell line. Chu E, et al. **Cancer Res** 1990 Sep 15;50(18):5834–40

An exponential–Gompertzian description of LoVo cell tumor growth from in vivo and in vitro data. Demicheli R, et al. **Cancer Res** 1989 Dec 1;49(23):6543–6

Proliferation of the human colon carcinoma cell line HT29: autocrine growth and deregulated expression of the c–myc oncogene. Forgue–Lafitte ME, et al. **Cancer Res** 1989 Dec 1;49(23):6566–71

In vitro assessment of the effects of granulocyte–macrophage colony–stimulating factor on primary human tumors and derived lines. Foulke RS, et al. **Cancer Res** 1990 Oct 1; 50(19):6264–7 (20 ref.)

N–(5–indanylsulfonyl)–N'–(4–chlorophenyl)urea, a novel agent equally cytotoxic to nonproliferating human colon adenocarcinoma cells. Houghton PJ, et al. **Cancer Res** 1990 Jan 15;50(2):318–22

Serological mapping of the TAG–72 tumor–associated antigen using 19 distinct monoclonal antibodies. Kuroki M, et al. **Cancer Res** 1990 Aug 15;50(16):4872–9

Growth adaptation to methotrexate of HT–29 human colon carcinoma cells is associated with their ability to differentiate into columnar absorptive and mucus–secreting cells. Lesuffleur T, et al. **Cancer Res** 1990 Oct 1; 50(19):6334–43

Correlation of stromal cells by morphometric analysis with metastatic behavior of human colonic carcinoma. McGinnis MC, et al. **Cancer Res** 1989 Nov 1;49(21):5989–93

Effects of calcium and bile acid feeding on colon tumors in the rat. McSherry CK, et al. **Cancer Res** 1989 Nov 1; 49(21):6039–43

Role of transforming growth factor beta 1 in induction of colon carcinoma differentiation by hexamethylene bisacetamide. Schroy P, et al. **Cancer Res** 1990 Jan 15; 50(2):261–5

Enhancement by interleukin 4 of interleukin 2– or antibody–induced proliferation of lymphocytes from interleukin 2–treated cancer patients. Treisman J, et al. **Cancer Res** 1990 Feb 15;50(4):1160–4

Neoplastic transformation of a human colonic epithelial cell line: in vitro evidence for the adenoma to carcinoma sequence. Williams AC, et al. **Cancer Res** 1990 Aug 1; 50(15):4724–30

Aberrant crypts, putative precancerous lesions, in the study of the role of diet in the aetiology of colon cancer. Bird RP, et al. **Cancer Surv** 1989;8(1):189–200 (25 ref.)

Neoplastic invasion in experimental carcinoma of the colon: abnormal differentiation and release of mucus. Carr I, et al. **Clin Exp Metastasis** 1990 Jul–Aug;8(4):299–304

Carcinoma in adenoma of the ampulla of Vater synchronous with cancer of the sigmoid colon. Yoshida J, et al. **Dig Dis Sci** 1990 Feb;35(2):271–5 (27 ref.)

Depressed adenoma in the large intestine. Endoscopic features. Kuramoto S, et al. **Dis Colon Rectum** 1990 Feb; 33(2):108–12

Effect of indomethacin in autotransplanted colonic tumors. Rubio CA, et al. **Dis Colon Rectum** 1989 Jun;32(6):488–91

Pulmonary resection for metastatic colon and upper rectum cancer. Is it useful? Scheele J, et al. **Dis Colon Rectum** 1990 Sep;33(9):745–52

Multiple sebaceous neoplasms and visceral carcinomas: Torre's syndrome. Wyman A, et al. **Eur J Surg Oncol** 1990 Feb;16(1):74–6

Suramin–induced differentiation of the human colic adenocarcinoma cell clone HT29–D4 in serum–free medium. Fantini J, et al. **Exp Cell Res** 1990 Jul; 189(1):109–17

Differential effects of sodium butyrate and hyperosmolality on the modulation of alkaline phosphatases of LoVo cells. Herz F, et al. **Exp Cell Res** 1990 May;188(1):50–4

Evidence for autocrine growth stimulation of cultured colon tumor cells by a gastrin/cholecystokinin–like peptide. Hoosein NM, et al. **Exp Cell Res** 1990 Jan;186(1):15–21

Tumor–infiltrating lymphocytes from human colon carcinomas. Functional and phenotypic characteristics after long–term culture in recombinant interleukin 2 [see comments] Yoo YK, et al. **Gastroenterology** 1990 Feb; 98(2):259–68 Comment in: Gastroenterology 1990 Feb;98(2):531–4.

Cytologic study of colonic lavage effluent in colonic adenocarcinoma [letter] Brandt LJ, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):584–5

Small cell undifferentiated ('neuroendocrine') carcinoma of the colon. Sarsfield P, et al. **Histopathology** 1990 Apr; 16(4):357–63

Effect of polarity and differentiation on antibody localization in multicellular tumour spheroid and xenograft models and its potential importance for in vivo immunotargeting. Pervez S, et al. **Int J Cancer** 1989 Nov 15;44(5):940–7

Establishment of highly metastatic variants of murine colon adenocarcinoma 26 under serum–free conditions. Sugimoto Y, et al. **Int J Cancer** 1990 Jul 15;46(1):118–24

Enhancement of azoxymethane–induced colon carcinogenesis in spontaneously hypertensive rats. Tatsuta M, et al. **Int J Cancer** 1990 May 15;45(5):957–60

Characterization of the synergistic effect of insulin and transferrin and the regulation of their receptors on a human colon carcinoma cell line. Watkins LF, et al. **Int J Cancer** 1990 Feb 15;45(2):372–5

Effects of disseminative route on the liver– and lung–colonizing efficiencies of B16 melanoma and colon–26 carcinoma in mice. Weiss L, et al. **Int J Cancer** 1989 Dec 15;44(6):1104–7

Late cytokinetic abnormalities in irradiated rectal mucosa. Risio M, et al. **Int J Colorectal Dis** 1990 May;5(2):98–102

Production of insulin–like growth factor II (IGF–II) and different forms of IGF–binding proteins by HT–29 human colon carcinoma cell line. Culouscou JM, et al. **J Cell Physiol** 1990 Jun;143(3):405–15

Impaired carcinoembryonic antigen release during the process of suramin–induced differentiation of the human colonic adenocarcinoma cell clone HT29–D4. Fantini J, et al. **J Cell Physiol** 1990 Jun;143(3):468–74

Small intestinal differentiation in human colon carcinoma HT29 cells has distinct effects on the lateral diffusion of lipids (ganglioside GM1) and proteins (HLA class 1, HLA class 2, and neoplastic epithelial antigens) in the apical cell membrane. Magnusson KE, et al. **J Cell Physiol** 1990 May; 143(2):381–90

Reversible forskolin–induced impairment of sucrase–isomaltase mRNA levels, biosynthesis, and transport to the brush border membrane in Caco–2 cells. Rousset M, et al. **J Cell Physiol** 1989 Dec;141(3):627–35

Aggressive behavior of carcinoma of the colon associated with nonsecreting plasma cell myeloma. A case report. Yermiahu T, et al. **J Clin Gastroenterol** 1989 Oct; 11(5):565–7

Growth stimulation by coexpression of transforming growth factor–alpha and epidermal growth factor–receptor in normal and adenomatous human colon epithelium. Markowitz SD, et al. **J Clin Invest** 1990 Jul;86(1):356–62

Prognostic variables in large bowel cancer [letter] Jass JR. **J Clin Pathol** 1989 Sep;42(9):1006–7

Proliferation rate of colonic mucosa in normal subjects and patients with colonic neoplasms: a refined immunohistochemical method. Welberg JW, et al. **J Clin Pathol** 1990 Jun;43(6):453–6

Role of nucleolar organiser regions in differentiating malignant from benign tumours of the colon. Yang P, et al. **J Clin Pathol** 1990 Mar;43(3):235–8

Growth inhibition of murine melanoma and human colon carcinoma by recombinant human platelet factor 4. Sharpe RJ, et al. **J Natl Cancer Inst** 1990 May 16;82(10):848–53

Metastatic intracranial carcinoid with immunohistochemical observation. Case report. Ozawa T, et al. **J Neurosurg** 1990 Jul;73(1):130–4

Iodine–125–NRLU–10 kinetic studies and bismuth–212–NRLU–10 toxicity in LS174T multicell spheroids. Langmuir VK, et al. **J Nucl Med** 1990 Sep; 31(9):1527–33

Colorectal polyps in an Australian population. A histological and immunohistochemical study. Hughes NR, et al. **J Pathol** 1990 Jan;160(1):41–50

Association of juvenile and adenomatous polyposis with pulmonary arteriovenous malformation and hypertrophic osteoarthropathy. Prieto G, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):133–7

Spontaneous expulsion of a large submucosal colonic lipoma. Stebbings WS, et al. **J R Soc Med** 1989 Oct;82(10):624–5

Anti–tumor x anti–CD3 heteroconjugates direct human peripheral blood lymphocytes to lyse colon tumor cells. Nelson H, et al. **J Surg Res** 1990 Apr;48(4):284–90

Signet ring cell carcinoma in adenomatous polyp at site of ureterosigmoidostomy 16 years after conversion to ileal conduit. Sohn M, et al. **J Urol** 1990 Apr;143(4):805–7 (29 ref.)

A case of adenomatosis coli complicated with malignant lymphoma of the spleen. Nakajima H, et al. **Jpn J Surg** 1990 May;20(3):351–5

Primary linitis plastica of the descending colon: a case report. Yamashita H, et al. **Jpn J Surg** 1990 Mar;20(2):229–33

Chemosensitivity tests in colorectal cancer patients. Yanagawa E, et al. **Jpn J Surg** 1989 Jul;19(4):432–8

9.4–T NMR microimaging studies of hepatic metastases of human colorectal tumors in nude mice. Sarkar SK, et al. **Magn Reson Med** 1989 Nov;12(2):268–73

Induction of carcinoembryonic antigen and its crossreactive gene products in human colonic adenomas and carcinomas by transforming growth factor–beta. Chakrabarty S, et al. **Mol Biother** 1990 Mar;2(1):27–31

Overexpression of protein kinase C in HT29 colon cancer cells causes growth inhibition and tumor suppression. Choi PM, et al. **Mol Cell Biol** 1990 Sep;10(9):4650–7

Measurement of the proliferative status of colonic epithelium as a risk marker for colon carcinogenesis: effect of bile acid and dietary fiber. Robblee NM, et al. **Nutr Cancer** 1989;12(4):301–10

Dysplastic and malignant areas in hyperplastic polyps of the large intestine. Teoh HH, et al. **Pathology** 1989 Apr; 21(2):138–42

Activation of the pp60c–src protein kinase is an early event in colonic carcinogenesis. Cartwright CA, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):558–62

N–glycosylation modification of proteins is an early marker of the enterocytic differentiation process of HT–29 cells. Ogier–Denis E, et al. **Reprod Nutr Dev** 1990;30(3):325–30

Polyps of the large intestine in Aarhus, Denmark. An autopsy study. Johannsen LG, et al. **Scand J Gastroenterol** 1989 Sep;24(7):799–806

Synchronous colonic adenocarcinoma and extragenital malignant mixed mesodermal tumour. el–Jabbour JN, et al. **Scott Med J** 1989 Dec;34(6):567–8

Colonic filiform polyposis and a malignant adenomatous polyp. Raila FA, et al. **South Med J** 1989 Nov; 82(11):1448–9

Human Kupffer cells are cytotoxic against human colon adenocarcinoma. Roh MS, et al. **Surgery** 1990 Aug; 108(2):400–4; discussion 404–5

Colonic pericryptal fibroblasts. Differentiation pattern in embryogenesis and phenotypic modulation in epithelial proliferative lesions. Sappino AP, et al. **Virchows Arch [A]** 1989;415(6):551–7

Colonic mucosal changes in nude mice associated with orthotopic xenografts of human colon cancer cells. Sekikawa K, et al. **Virchows Arch [A]** 1990;416(5):393–6

[Cytologic examination of colonic hypertrophic lesions using ultrasound–guided fine–needle aspiration] Luo FC. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;69(11):639–41 **(Chi)**

[Immunocytochemical study of enterochromaffin cells in carcinoma of the large intestine] Chen PH. **Chung–hua Ping Li Hsueh Tsa Chih** 1990 Jun;19(2):86–9 (Eng. Abstr.) **(Chi)**

[Stereological study of the goblet–cell in colon with special reference to carcinoma] Xu XZ. **Chung–hua Ping Li Hsueh Tsa Chih** 1990 Mar;19(1):57–60 (Eng. Abstr.) **(Chi)**

[Light and electron microscopic studies of relationship between colon carcinoma and schistosomiasis] Li GR. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):295–8 (Eng. Abstr.) **(Chi)**

[Polyps with an invasive degenerated focus] Taton G, et al. **Acta Gastroenterol Belg** 1989 Jul–Oct;51(4–5):397–402 (Eng. Abstr.) **(Fre)**

[Mucosal pseudo–lipomatosis of the colon. Apropos of a case with a review of the literature] Ben Rejeb A, et al. **Arch Anat Cytol Pathol** 1989;37(5–6):254–7 (7 ref.) (Eng. Abstr.) **(Fre)**

[Vasoactive intestinal peptide induces 2',5'–oligoadenylate synthetase and antiviral state in cells of HT–29 colonic cancer] Chelbi–Alix MK, et al. **C R Acad Sci [III]** 1990; 310(5):147–53 (Eng. Abstr.) **(Fre)**

[Basal lamina and metastatic potential of two tumorigenic clones from a human colonic adenocarcinoma cell line] Remy L, et al. **C R Acad Sci [III]** 1990;310(9):389–95 (Eng. Abstr.) **(Fre)**

[Anal metastases from cancer of the colon] Roullet Audy JC, et al. **Presse Med** 1990 Jun 30;19(26):1221–2 (Eng. Abstr.) **(Fre)**

[Ascites in metastatic neuroendocrine tumor of the intestine. Cytologic and immunocytochemistry diagnosis] Dirsch O, et al. **Leber Magen Darm** 1990 Mar;2(2):76, 78, 81 (Eng.

Abstr.) (Ger)
[Multiple primary cancer of the colon and rectum] Bartha I, et al. **Orv Hetil** 1989 Sep 24;130(39):2077–80 (40 ref.) (Eng. Abstr.) (Hun)
[Intestinal polyposis in children. Description and differential diagnosis of 2 cases] Bonamico M, et al. **Minerva Pediatr** 1989 Aug;41(8):431–8 (Eng. Abstr.) (Ita)
[A clinicopathological study on colonic carcinomas arising from right side colon] Don XX, et al. **Gan No Rinsho** 1989 Oct;35(12):1421–8 (Eng. Abstr.) (Jpn)
[Two cases of primary, diffusely infiltrating carcinoma (linitis plastica) of the colon] Kunieda K, et al. **Gan No Rinsho** 1990 Apr;36(5):657–62 (Eng. Abstr.) (Jpn)
[A case of adrenal myelolipoma with colonic cancer and gallstones] Kunieda Y, et al. **Gan No Rinsho** 1990 Jul; 36(8):949–54 (Eng. Abstr.) (Jpn)
[A case of Borrmann type 4 colon cancer with a metastasis into hepatoma] Maruyama C, et al. **Gan No Rinsho** 1990 Aug;36(9):1047–52 (Eng. Abstr.) (Jpn)
[An early cancer of the descending colon, histologically showing a poorly differentiated adenocarcinoma] Nishimori T, et al. **Gan No Rinsho** 1990 Jun;36(7):854–6 (Eng. Abstr.) (Jpn)
[Analysis of the mechanism of increased antitumor activity of UFT after combined treatment with CDDP] Oie S, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1321–6 (Eng. Abstr.) (Jpn)
[MNNG-carcinogenesis in the interposed ileum into the colon of rats] Kato M. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):851–8 (Eng. Abstr.) (Jpn)
[The persistence and proliferation of tumor-xenografts implanted under the renal capsule of immunocompetent mice, cyclosporin A-treated mice and nude mice] Kusuyama T, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar; 91(3):303–12 (Eng. Abstr.) (Jpn)
[A clinical study of 76 cases in carcinoma of the colon and rectum with metastasis to the peri-aortic lymph nodes. With particular reference to the skip metastasis in carcinoma of the sigmoid colon to the peri-aortic lymph nodes] Machiki Y, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):844–50 (Eng. Abstr.) (Jpn)
[Growth rate of experimental colonic cancer in rats] Tsunoda A, et al. **Nippon Geka Gakkai Zasshi** 1990 May;91(5):581–7 (Eng. Abstr.) (Jpn)
[Histology and immunopathology of colonic carcinoma] Usami S, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun; 91(6):667–76 (Eng. Abstr.) (Jpn)
[Expression of malignant potential of human colon cancer in nude mice: preliminary report] Yamada Y, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):787 (Jpn)
[Clinico-pathological studies on Is, Ip polyps and flat elevations in the large intestine] Kida M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1154–9 (Eng. Abstr.) (Jpn)
[Two cases of ulcerative colitis with colon cancer: immunoperoxidase staining using monoclonal antibodies against gastrointestinal tumor and mucin staining] Okuzumi J, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb; 87(2):181–6 (Eng. Abstr.) (Jpn)
[A case of large colon cavernous hemangioma in childhood] Saito Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May; 87(5):1232–5 (8 ref.) (Jpn)
[Giant abdominal myeloblastoma preceding overt acute myelogenous leukemia] Komiya I, et al. **Rinsho Ketsueki** 1990 Apr;31(4):479–83 (Eng. Abstr.) (Jpn)
[The effect of lymphocytes on the growth of transplanted adenocarcinoma of the colon in mice] Dontsov VI. **Eksp Onkol** 1989;11(5):48–51 (Eng. Abstr.) (Rus)
[Simultaneous identical malignant tumors in the small and large intestine in the same person] Sehović S, et al. **Med Arh** 1984;38(6):301–3 (Eng. Abstr.) (Scr)
[Lymphangioma of the ascending colon] Salvador Añez M, et al. **GEN** 1987 Oct-Dec;41(4):167–70 (16 ref.) (Eng. Abstr.) (Spa)
[Pseudotumoral endometriosis of the colon] Martini RB, et al. **Rev Esp Enferm Dig** 1990 Apr;77(4):290–4 (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

Anticachectic activity of 5'-deoxy-5-fluorouridine in a murine tumor cachexia model, colon 26 adenocarcinoma. Tanaka Y, et al. **Cancer Res** 1990 Aug 1;50(15):4528–32
Experimental cancer cachexia induced by transplantable colon 26 adenocarcinoma in mice. Tanaka Y, et al. **Cancer Res** 1990 Apr 15;50(8):2290–5
Inhibition of weight loss by omega-3 fatty acids in an experimental cachexia model. Tisdale MJ, et al. **Cancer Res** 1990 Aug 15;50(16):5022–6
Isolation of human colon carcinoma cells for resistance to a single interferon associated with cross-resistance to multiple recombinant interferons: alpha, beta, and gamma. Morikawa K, et al. **J Natl Cancer Inst** 1990 Mar 21; 82(6):517–22
Influence of caloric restriction and exercise on tumorigenesis in rats. Kritchevsky D. **Proc Soc Exp Biol Med** 1990 Jan; 193(1):35–8

PREVENTION & CONTROL

Re: Physical activity, diet, and risk of colon cancer in Utah [letter; comment] **Am J Epidemiol** 1990 Mar;131(3):567–70 Comment on: Am J Epidemiol 1988 Nov;128(5):989–99.
Colon cancer screening. The dilemma of positive screening tests. Lieberman DA. **Arch Intern Med** 1990 Apr; 150(4):740–4 (46 ref.)
Effect of DL-buthionine-S,R-sulfoximine on 1,2-dimethyl-hydrazine-induced colonic tumors in rats. Chen MF, et al. **Cancer Lett** 1990 Mar;49(3):237–42
Inhibition of the promotional phase of azoxymethane-induced colon carcinogenesis in the F344 rat by calcium lactate: effect of simulating two human nutrient density levels. Wargovich MJ, et al. **Cancer Lett** 1990 Aug;53(1):17–25
Role of asialo-GM1 positive liver cells from athymic nude or polyinosinic-polycytidylic acid-treated mice in suppressing colon-derived experimental hepatic metastasis. Cohen SA, et al. **Cancer Res** 1990 Mar 15;50(6):1834–40
Chemoprevention of colon carcinogenesis by concurrent administration of piroxicam, a nonsteroidal antiinflammatory drug with D,L-alpha-difluoromethylornithine, an ornithine decarboxylase inhibitor, in diet. Reddy BS, et al. **Cancer Res** 1990 May 1;50(9):2562–8
Chemoprevention of 1,2-dimethylhydrazine-induced colon cancer in mice by naturally occurring organosulfur compounds. Sumiyoshi H, et al. **Cancer Res** 1990 Aug 15; 50(16):5084–7
Chemoprevention of mouse colon tumors with difluoromethylornithine during and after carcinogen treatment. Tempero MA, et al. **Cancer Res** 1989 Nov 1; 49(21):5793–7
Protease inhibitor suppression of colon and anal gland carcinogenesis induced by dimethylhydrazine. Billings PC, et al. **Carcinogenesis** 1990 Jul;11(7):1083–6
The role of sigmoidoscopy for asymptomatic patients. Results of three annual screening sigmoidoscopies, polypectomy, and subsequent surveillance colonoscopy in a primary-care setting. Riff ER, et al. **Cleve Clin J Med** 1990 Mar-Apr; 57(2):131–6
Mediterranean diet and cancer. Berrino F, et al. **Eur J Clin Nutr** 1989;43 Suppl 2:49–55 (58 ref.)
An evaluation of Fecatwin/Feca EIA; a faecal occult blood test for detecting colonic neoplasia. Py[illegible] G, et al. **Eur J Surg Oncol** 1989 Oct;15(5):446–8
Is there a preference for different ways of performing faecal occult blood tests? Kettner JD, et al. **Int J Colorectal Dis** 1990 May;5(2):82–6
Physical activity and colon cancer risk [letter; comment] Gorham ED, et al. **Int J Epidemiol** 1989 Sep;18(3):728–9 Comment on: Int J Epidemiol 1988 Dec;17(4):743–6.
Public response to Reagan's colon cancer [news] Fenner W. **J Natl Cancer Inst** 1989 Nov 15;81(22):1694–5
Reduction of colon cancer risk by dietary cellulose supplementation [letter; comment] Heitman DW, et al. **J Natl Cancer Inst** 1990 Jul 4;82(13):1154–5 Comment on: J Natl Cancer Inst 1989 Sep 6;81(17):1290–7.
Dietary fiber, vegetables, and colon cancer: critical review and meta-analyses of the epidemiologic evidence. Trock B, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):650–61 (71 ref.)
Colon cancer and dietary fiber: cellulose inhibits the DNA-damaging ability of bile acids. Cheah PY, et al. **Nutr Cancer** 1990;13(1-2):51–7
Effect of wheat fiber and vitamins C and E supplements on rectal polyps in patients at high risk for colon cancer. **Nutr Rev** 1990 May;48(5):218–20
Screening for large bowel cancer. Barnes R. **Practitioner** 1989 May 8;233(1468):691–4
High fiber diet and colon cancer: a critical review. Trock BJ, et al. **Prog Clin Biol Res** 1990;346:145–57
Colorectal cancer prevention. In search of risk factors and increased effectiveness of surveillance programs. Vatn MH, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1025–30
Long-term effects of dietary calcium on risk markers for colon cancer in patients with familial polyposis. Stern HS, et al. **Surgery** 1990 Sep;108(3):528–33
Dietary milk proteins inhibit the development of dimethylhydrazine-induced malignancy. Papenburg R, et al. **Tumour Biol** 1990;11(3):129–36
[Evaluation of RPHA fecal occult blood test in screening for colorectal cancer] Yu H. **Chung Hua Chung Liu Tsa Chih** 1990 Mar;12(2):108–10 (Eng. Abstr.) (Chi)
[Endoscopic study on the effect of dietary fiber against 1,2-dimethylhydrazine-induced colonic carcinogenesis in rats] Iwane S. **Nippon Shokakibyo Gakkai Zasshi** 1989 Dec; 86(12):2713–20 (Eng. Abstr.) (Jpn)
[Effects of indomethacin and prostaglandin E2 administered intrarectally on colon carcinogenesis induced by azoxymethane (AOM) in rats] Yamashita I, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jul;86(7):1438–47 (Eng. Abstr.) (Jpn)

RADIOGRAPHY

"Jejunized colon" in a patient with colonic carcinoid [letter] Li KC, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1314
Synchronous colon and renal cancers: six cases of a clinical entity. O'Boyle KP, et al. **Am J Med** 1989 Dec;87(6):691–3 (27 ref.)
Clear cell carcinoma of the sigmoid mesocolon: a tumor of the secondary müllerian system. Evans H, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):161–3
Neoplasia of the colon over a long segment. Greenbaum EI, et al. **Clin Radiol** 1973 Oct;24(4):416–26
The colon. Gelfand DW. **Curr Opin Radiol** 1989 Jun; 1(1):66–70 (11 ref.)
Linitis plastica of the colon: computed tomography findings. Howell EJ, et al. **Gastrointest Radiol** 1990 Winter; 15(1):69–71
Bowel obstruction and an apple-core lesion in an 18-year-old man. Peterson IM, et al. **J Fam Pract** 1990 Jul;31(1):85–8
Inguinal hernia and colon cancer [letter] Roubein DR, et al. **South Med J** 1990 Jul;83(7):855
[Cancer of the colon? Chronic intestinal pseudo-obstruction] Götz GF, et al. **Radiologe** 1989 Dec;29(12):624–5 (Ger)
[Methodologic optimization of computerized tomography diagnosis of the large intestine] Gaa J, et al. **Rontgenblatter** 1990 Feb;43(2):80–2 (Eng. Abstr.) (Ger)
[Indications for roentgenologic diagnosis of the colon in gynecology] Natho W, et al. **Zentralbl Gynakol** 1990; 112(2):61–74 (Eng. Abstr.) (Ger)
[Radiologic aspects of metastasis to the colon. Description of 4 cases] Boccardi A, et al. **Minerva Dietol Gastroenterol** 1989 Jul-Sep;35(3):205–10 (Eng. Abstr.) (Ita)

RADIONUCLIDE IMAGING

Colorectal carcinoma. Using a gamma counter to find recurrent tumors. Ricker LE, et al. **AORN J** 1989 Nov; 50(5):1046–9, 1051–5
Indium 111 ZCE-025 immunoscintigraphy in occult recurrent colorectal cancer with elevated carcinoembryonic antigen level. Doerr RJ, et al. **Arch Surg** 1990 Feb;125(2):226–9
Presurgical imaging with indium-labeled anti-carcinoembryonic antigen for colon cancer staging. Beatty JD, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):922s–926s
Bone scan of recurrent colon carcinoma involving the sacrum and urinary bladder. Stewart CA, et al. **Clin Nucl Med** 1990 Jul;15(7):513–4
Preclinical and clinical testing of radiolabelled monoclonal antibodies for immunoscintigraphy. Steinsträsser A, et al. **Dev Biol Stand** 1990;71:137–45 (6 ref.)
Influence of circulating antigen on the biodistribution and tumour localization of radiolabelled monoclonal antibody in a human tumour: nude mouse xenograft model. Pimm MV, et al. **Eur J Cancer Clin Oncol** 1989 Sep;25(9):1325–32
Tissue distribution of 131I radiolabeled transferrin in the athymic nude mouse: localization of a human colon adenocarcinoma HT-29 xenograft. Prost AC, et al. **Int J Rad Appl Instrum [B]** 1990;17(2):209–16
Immunoscintigraphy of human tumors transplanted in nude mice with radiolabeled anti-ras p21 monoclonal antibodies. Katoh Y, et al. **J Nucl Med** 1990 Sep;31(9):1520–6
Metabolism of indium-111-labeled murine monoclonal antibody in tumor and normal tissue of the athymic mouse. Motta-Hennessy C, et al. **J Nucl Med** 1990 Sep; 31(9):1510–9
Localization of intraperitoneal xenografts of human colon cancer by radiolabeled anti-CEA antibodies. Duda RB, et al. **J Surg Oncol** 1990 Jun;44(2):73–7
In-111-labeled monoclonal antibody immunoscintigraphy in colorectal carcinoma: safety, sensitivity, and preliminary clinical results. Abdel-Nabi H, et al. **Radiology** 1990 Apr; 175(1):163–71
[Imaging and biodistribution of 111In-labeled anti-carcinoembryonic antigen monoclonal antibodies in nude mice bearing human colon cancer xenografts] Wu H. **Chung Hua Chung Liu Tsa Chih** 1989 Jul;11(4):254–6 (Eng. Abstr.) (Chi)
[Immunoscintigraphy or intraoperative isotopic detection of colorectal neoplastic lesions using labelled monoclonal anibodies. Preliminary study. 20 cases] Proye C, et al. **Chirurgie** 1989;115(9):640–5 (Eng. Abstr.) (Fre)
[Positron emission tomography following brief infusion of 5-[18F]uracil: linear model for the kinetics of 18F radioactivity in tumors] Port RE, et al. **Onkologie** 1989 Aug;12 Suppl 1:51–2 (Eng. Abstr.) (Ger)
[Experimental visualization of human colon cancer using 131I-antibodies to intestinal beta 1 MA antigen] Fidler LM, et al. **Med Radiol (Mosk)** 1989 Oct;34(10):53–7 (Eng. Abstr.) (Rus)
[Scintigraphy with tumoritropic radiopharmaceutical preparations in the diagnosis of cancer of the large intestine] Zaĭtseva TI, et al. **Med Radiol (Mosk)** 1989 Dec;34(12):21–4 (Eng. Abstr.) (Rus)
[Clinical application of radioimmunolocalization in colorectal cancer] Germà JR, et al. **Med Clin (Barc)** 1990 Mar 10; 94(9):325–8 (Eng. Abstr.) (Spa)

RADIOTHERAPY

Radioimmunotherapy of human colon cancer in nude mice. Buras RR, et al. **Arch Surg** 1990 May;125(5):660–4
Antibody distribution and dosimetry in patients receiving radiolabelled antibody therapy for colorectal cancer. Begent RH, et al. **Br J Cancer** 1989 Sep;60(3):406–12
A comparison of 131I-labeled monoclonal antibody 17-1A treatment to external beam irradiation on the growth of LS174T human colon carcinoma xenografts. Buchsbaum

DJ, et al. **Int J Radiat Oncol Biol Phys** 1990 May; 18(5):1033–41

Iodine–131–labeled MAb F(ab')2 fragments are more efficient and less toxic than intact anti–CEA antibodies in radioimmunotherapy of large human colon carcinoma grafted in nude mice [see comments] Buchegger F, et al. **J Nucl Med** 1990 Jun;31(6):1035–44 Comment in: J Nucl Med 1990 Jun;31(6):1045–7.

F(ab')2 fragments versus intact antibody—an isodose comparison [comment] Humm JL, et al. **J Nucl Med** 1990 Jun;31(6):1045–7 (18 ref.) Comment on: J Nucl Med 1990 Jun;31(6):1035–44.

Indications for adjuvant radiotherapy in extrapelvic colonic carcinoma. Willett CG, et al. **Oncology (Williston Park)** 1989 Jul;3(7):25–31; discussion 32–3

[Palliative treatment of colonic tumors with laser and afterloading irradiation] Semler P. **Dtsch Med Wochenschr** 1990 Mar 2;115(9):328–31 (Eng. Abstr.) **(Ger)**

SECONDARY

Secondary carcinoma from the cervix involving the large bowel. Fraser AM, et al. **Br J Surg** 1969 Apr;56(4):317–8

Gastric linitis plastica with metastases to the colon: a mimic of Crohn's disease. Katon RM, et al. **J Clin Gastroenterol** 1989 Oct;11(5):555–60

Randomized study of continuous infusion fluorouracil versus fluorouracil plus cisplatin in patients with metastatic colorectal cancer. Kemeny N, et al. **J Clin Oncol** 1990 Feb;8(2):313–8 (27 ref.)

[Stomach cancer metastasizing into a solitary adenomatous colonic polyp] Tiszlavicz L. **Orv Hetil** 1990 Jun 10; 131(23):1259–61 (Eng. Abstr.) **(Hun)**

[Clinical course and surgical treatment of intestinal endometriosis] Tsvelev IuV, et al. **Vestn Khir** 1989 Sep; 143(9):10–3 (Eng. Abstr.) **(Rus)**

SURGERY

Effect of preoperative colonoscopy on the incidence of synchronous and metachronous neoplasms. Barillari P, et al. **Acta Chir Scand** 1990 Feb;156(2):163–6

Advantages and disadvantages of mechanical vs. manual anastomosis in colorectal surgery. A prospective study. Cajozzo M, et al. **Acta Chir Scand** 1990 Feb;156(2):167–9

Surgical management of the acutely obstructed colon [letter; comment] Flynn CL. **Am J Surg** 1990 Feb;159(2):269–70 Comment on: Am J Surg 1988 Sep;156(3 Pt 1):163–8.

Postoperative surveillance of patients with carcinoma of the colon and rectum. Rocklin MS, et al. **Am Surg** 1990 Jan; 56(1):22–7

Colonoscopic surveillance after diagnosis of carcinoma of the colon and rectum. Michael Z, et al. **Ann Chir** 1989; 43(7):568–9

Large bowel cancer: the effect of perioperative blood transfusion on outcome. Cheslyn–Curtis S, et al. **Ann R Coll Surg Engl** 1990 Jan;72(1):53–9

Synchronous and metachronous carcinoma of the colon and rectum. Heald RJ. **Ann R Coll Surg Engl** 1990 May; 72(3):172–4 (19 ref.)

Asepsis in large–bowel surgery. Hughes ES. **Ann R Coll Surg Engl** 1972 Dec;51(6):347–56

The double stapling technique for low anterior resection. Results, modifications, and observations. Griffen FD, et al. **Ann Surg** 1990 Jun;211(6):745–51; discussion 751–2

Surgical implications of primary gastrointestinal lymphoma of childhood. Fleming ID, et al. **Arch Surg** 1990 Feb; 125(2):252–6

Prospective study of colorectal cancer in the west of Scotland: 10–year follow–up. McArdle CS, et al. **Br J Surg** 1990 Mar;77(3):280–2

Peroperative observation of marginal artery bleeding: a predictor of anastomotic leakage. Novell JR, et al. **Br J Surg** 1990 Feb;77(2):137–8

Obstructing carcinomas of the colon. Serpell JW, et al. **Br J Surg** 1989 Sep;76(9):965–9

Hidden loop colostomy. Walfisch S, et al. **Can J Surg** 1989 Nov;32(6):401–2

Management of patients with invasive carcinoma removed by colonoscopic polypectomy. Sugihara K, et al. **Dis Colon Rectum** 1989 Oct;32(10):829–34

Usefulness of performing colonoscopy one year after endoscopic polypectomy. Woolfson IK, et al. **Dis Colon Rectum** 1990 May;33(5):389–93

Extended operations for extracolic invasion by colon cancer. Puccio F, et al. **G Chir** 1989 Oct;10(10):545–8

The "snow white" sign [letter; comment] Waye JD, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):581–2 Comment on: Gastrointest Endosc 1989 Mar–Apr;35(2)93–4.

Effect of balanced amino acid solution on protein metabolism after surgery. A clinical study. Figueras J, et al. **Infusionstherapie** 1990 Apr;17(2):100–3

Surgery for carcinoma of the colon in people aged 75 years and older. Ozoux JP, et al. **Int J Colorectal Dis** 1990 Feb; 5(1):25–30 (22 ref.)

Postoperative surveillance of colorectal cancer according to risk category. Secco GB, et al. **Ital J Surg Sci** 1989; 19(3):239–45

The laser and the lower gastrointestinal tract. Peters O, et al. **J Belge Radiol** 1989 Oct;72(5):419–20

Obstructing carcinoma of the left colon managed by subtotal colectomy [letter; comment] Byrne DJ. **J R Coll Surg Edinb** 1989 Dec;34(6):340 Comment on: J R Coll Surg Edinb 1989 Feb;34(1):25–6.

Hartmann's procedure for carcinoma of rectum and distal sigmoid colon: 5–year audit. Dixon AR, et al. **J R Coll Surg Edinb** 1990 Jun;35(3):166–8

Nude mouse resists hepatic metastasis of the allogeneic tumor, colon–26. Arisawa Y, et al. **Jpn J Surg** 1990 Jul; 20(4):487–90

Ablation of recurrent and metastatic intraabdominal tumor with the CO2 laser. Chevinsky AH, et al. **Lasers Surg Med** 1990;10(1):5–11

The effect of perioperative blood transfusions on long–term survival of colon cancer patients. Waymack JP, et al. **Milit Med** 1989 Oct;154(10):515–7

Synchronous adenocarcinomas of jejunum and cecum following transverse colon carcinoma. A case study. Reddy VB, et al. **Mt Sinai J Med** 1990 Jan;57(1):34–6

Cancer recurrent at stapled colon incision. Davidson JT, et al. **N J Med** 1990 Apr;87(4):297–8

Screening and the costs of treating colorectal cancer: some preliminary results. Tuck J, et al. **Public Health** 1989 Nov; 103(6):413–9

Perioperative blood transfusion and recurrence and death after resection for cancer of the colon and rectum. Jakobsen EB, et al. **Scand J Gastroenterol** 1990 May;25(5):435–42

Repeat hepatic resections for colorectal metastases. Griffith KD, et al. **Surgery** 1990 Jan;107(1):101–4

Orthotopic liver transplantation for secondary malignancies of the liver. Mühlbacher F, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2396–8

Use of resectoscope for colon cancer. Vaccaro JA, et al. **Urol Clin North Am** 1990 Feb;17(1):63–6

[Surgical treatment of acute intestinal obstruction caused by large bowel carcinoma] Yu BM. **Chung Hua Wai Ko Tsa Chih** 1989 Jul;27(7):285–6, 443 (Eng. Abstr.) **(Chi)**

[Reoperation for recurrent carcinoma of the large intestine and rectum] Mašek J, et al. **Rozhl Chir** 1990 Mar; 69(3):175–9 (Eng. Abstr.) **(Cze)**

[Subtotal colectomy in the treatment of obstructive tumors in the left half of the colon] Suchý T, et al. **Rozhl Chir** 1990 Mar;69(3):153–8 (Eng. Abstr.) **(Cze)**

[Cecostomy can not be recommended as a routine method in the treatment of acute left–sided obstructive colon cancer] Kristiansen VB, et al. **Ugeskr Laeger** 1990 Jan 8; 152(2):101–3 (Eng. Abstr.) **(Dan)**

[Surgical therapy of colon carcinoma with local invasion: a useful treatment?] Kroneman H, et al. **Ned Tijdschr Geneeskd** 1989 Dec 2;133(48):2396–8 (Eng. Abstr.) **(Dut)**

[Resection of colon carcinoma; conventional or no–touch isolation technic?] Oldhoff J. **Ned Tijdschr Geneeskd** 1989 Jul 22;133(29):1436–8 **(Dut)**

[Periampullary carcinoma as a second primary tumor following a previously treated adenocarcinoma of the colon] Trum JW, et al. **Ned Tijdschr Geneeskd** 1989 Sep 16;133(37):1844–7 (Eng. Abstr.) **(Dut)**

[One–stage subtotal colectomy in the emergency treatment of occlusive left colonic neoplasms] Alle JL, et al. **Acta Chir Belg** 1990 May–Jun;90(3):86–8 (Eng. Abstr.) **(Fre)**

[Gastrocolonic excision of cancer. Retrospective analysis of the immediate postoperative course and long–term survival in 18 patients] Delpero JR, et al. **Ann Chir** 1989;43(7):530–6 (Eng. Abstr.) **(Fre)**

[Multiple cancers of the colon. Cancers and polyps. Should total colectomy be performed?] Gallot D. **Ann Chir** 1989; 43(9):709–13; discussion 713–5 **(Fre)**

[Cancer of the colon: results of the surgical treatment in 1000 patients] Moreaux J. **Ann Gastroenterol Hepatol (Paris)** 1990 Mar–Apr;26(2):85–6; discussion 87 (Eng. Abstr.) **(Fre)**

[Cancer of the colon. Survival and prognosis after surgical treatment in a series of 1000 patients] Moreaux J. **Bull Acad Natl Med** 1989 Jun;173(6):777–80; discussion 781–2 (Eng. Abstr.) **(Fre)**

[Can the prognosis of patients treated surgically in cancer of the rectum or colon be improved by follow–up? Prospective study of 909 patients] Adloff M, et al. **Chirurgie** 1989;115(3):228–36; discussion 236–7 (Eng. Abstr.) **(Fre)**

[Colonic cancer. Indications and results apropos of a continuous series of 223 patients] Dumeige F, et al. **Chirurgie** 1989;115(4–5):260–71 (Eng. Abstr.) **(Fre)**

[Treatment of local recurrence of colonic and rectal cancer initially treated by resection–anastomosis] Houry S, et al. **Gastroenterol Clin Biol** 1990;14(1):28–32 (28 ref.) (Eng. Abstr.) **(Fre)**

[Stenosis of the lowered colon after coloanal anastomosis and postoperative radiotherapy of cancer of the rectum (letter)] Lehur PA, et al. **Gastroenterol Clin Biol** 1990; 14(3):287–8 **(Fre)**

[Colonic cancer. Results of elective surgery] Huguet C. **Rev Med Suisse Romande** 1990 Jun;110(6):507–9 **(Fre)**

[Lipoma of the colon: apropos of a surgically treated case] Ben Slimane T, et al. **Tunis Med** 1990 Apr;68(4):309–11 (Eng. Abstr.) **(Fre)**

[Sutureless compression anastomosis of the distal colon and rectum. An expanded report of experiences with a total of 140 patients] Gross E, et al. **Chirurg** 1989 Sep; 60(9):589–93 (Eng. Abstr.) **(Ger)**

[Uses and risks of drainage following elective colon resection. A prospective, randomized and controlled clinical study] Hagmüller E, et al. **Chirurg** 1990 Apr;61(4):266–71 (Eng. Abstr.) **(Ger)**

[Discontinuity resection of the colon. Indications and results] Hermanek P Jr, et al. **Chirurg** 1990 Jan;61(1):49–52 (Eng. Abstr.) **(Ger)**

[Experiences with a subcutaneous, fully resorbable bridge in construction a double loop ileo– and colostomy] Wedell J, et al. **Chirurg** 1990 Jan;61(1):36–8 (Eng. Abstr.) **(Ger)**

[Combined musculocutaneous tensor fasciae latae and rectus femoris flaps for covering an extensive abdominal wall defect] Piza–Katzer H, et al. **Handchir Mikrochir Plast Chir** 1989 Nov;21(6):315–7 (Eng. Abstr.) **(Ger)**

[Duration of the preventive use of antibiotics in colorectal surgery—single administration versus short–term prevention] Bittner R, et al. **Langenbecks Arch Chir** 1989; 374(5):272–9 (Eng. Abstr.) **(Ger)**

[Differential surgical treatment of ileus of the large intestine] Gebhardt C, et al. **Zentralbl Chir** 1990;115(2):77–88 (Eng. Abstr.) **(Ger)**

[Colorectal cancer: prognosis after curative surgical treatment without extended elective lymphadenectomy in patients in Dukes C stage] Secco GB, et al. **G Chir** 1989 Oct;10(10):557–61 (Eng. Abstr.) **(Ita)**

[Colorectal neoplasms in young patients] Abbo L, et al. **Minerva Chir** 1989 Oct 15;44(19):2081–4 (Eng. Abstr.) **(Ita)**

[The role of lymphadenectomy in the surgical treatment of cancer of the left colon and rectum] Briccoli A, et al. **Minerva Chir** 1990 Feb;45(3–4):141–3 (Eng. Abstr.) **(Ita)**

[Early postoperative enteral nutrition and total parenteral nutrition. Technics compared in patients undergoing radical surgery for carcinoma of the large intestine. Preliminary report] Grilli P, et al. **Minerva Chir** 1989 Sep 15;44(17):1901–3 (Eng. Abstr.) **(Ita)**

[Manual and mechanic anastomosis. Comparison in oncologic surgery of the colon and rectum] Piccolomini A, et al. **Minerva Chir** 1990 Mar 15;45(5):237–40 (Eng. Abstr.) **(Ita)**

[On lymph node excision in malignant neoplasms of the splenocolic fold] Podestà A, et al. **Minerva Chir** 1990 Mar 31;45(6):349–59 (37 ref.) (Eng. Abstr.) **(Ita)**

[Screening for liver metastases of colorectal carcinoma by the routine use of intraoperative echography] Russo A, et al. **Minerva Chir** 1989 Sep 15;44(17):1893–900 (Eng. Abstr.) **(Ita)**

[Sexual dysfunction following radical operation for cancer of the rectum and colon] Shirai M. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):822–8 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Ph1 positive acute lymphoblastic leukemia with DIC after operation of colon and lung cancer] Yashige H, et al. **Rinsho Ketsueki** 1989 Jul;30(7):1074–8 (Eng. Abstr.) **(Jpn)**

[Blood transfusion in cancer of the colon and rectum. Blood transfusion and immunology (letter)] Sundal E. **Tidsskr Nor Laegeforen** 1990 May 20;110(13):1745–6 **(Nor)**

[Blood transfusion in cancer of the colon and rectum. Friend or foe of the surgeon? A review] Wiig JN. **Tidsskr Nor Laegeforen** 1990 Feb 10;110(4):503–7 (31 ref.) (Eng. Abstr.) **(Nor)**

[Comparative clinico–evolutive and therapeutic aspects in cancer of the right and left colon] Constantinoiu S, et al. **Rev Chir [Chir]** 1989 Jul–Aug;38(4):275–82 (Eng. Abstr.) **(Rum)**

[Pharmacokinetics of dioxidine in oncological patients in the postoperative period] Ponomareva TR, et al. **Antibiot Khimioter** 1989 Sep;34(9):684–7 (Eng. Abstr.) **(Rus)**

[Submucosal lipomas of the colon] Iukhtin VI, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):33–5 (Eng. Abstr.) **(Rus)**

[Surgical treatment of cancer of the colon and factors determining its effectiveness] Mel'nikov RA, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):29–33 (Eng. Abstr.) **(Rus)**

[Ways of reducing postoperative mortality and the incidence of suppurative complications in tumors of the large intestine] Pomelov VS, et al. **Khirurgiia (Mosk)** 1990 Apr; (4):98–101 **(Rus)**

[Surgical tactics in cancer of the colon complicated by intestinal obstruction] Tetdoev AM, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):64–7 (Eng. Abstr.) **(Rus)**

[Simultaneous resection with the creation of 2 anastomoses in synchronous multiple primary cancer of the large intestine] Tsariuk VF, et al. **Khirurgiia (Mosk)** 1990 Apr; (4):61–4 (Eng. Abstr.) **(Rus)**

[Treatment of colonic cancer with metastases to the lungs] Vladanov IP, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):70–4 (Eng. Abstr.) **(Rus)**

[Clinico–morphological aspects and treatment of polyps associated with cancer of the large intestine] Linchenko IF, et al. **Klin Khir** 1990;(5):5–7 (Eng. Abstr.) **(Rus)**

[Bacteriologic studies during surgery of the large intestine] Abolmasov EI, et al. **Lab Delo** 1990;(4):67–8 **(Rus)**

[Surgical tactics in multiple cancer of the large intestine] Dolgorukov MI. **Vestn Khir** 1989 Sep;143(9):57 **(Rus)**

[Diagnosis and treatment of acute intestinal obstruction in cancer of the colon] Topuzov EG. **Vestn Khir** 1989 Dec; 144(12):76–8 **(Rus)**

[A method of closing the colostomy to restore the continuity of the colon] Zinevich VP. **Vestn Khir** 1989 Aug; 144(8):140–2 (Eng. Abstr.) **(Rus)**

THERAPY

Adjuvant therapy for colon carcinoma [clinical conference] Pazdur R. **Am J Clin Oncol** 1989 Dec;12(6):537–40

Adjuvant therapy in colorectal cancer. Gerard A, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1033–5 (23 ref.)

Gastrointestinal malignancies as a complication of chronic myeloid leukaemia. Slade R, et al. **Br J Clin Pract** 1990 Feb;44(2):76–8

Design of combined treatment trials [letter] Aref A. **Can Assoc Radiol J** 1990 Apr;41(2):109

Adoptive immunotherapy of a mouse colon carcinoma with recombinant interleukin-2 alone or combined with lymphokine-activated killer cells or tumor-immune lymphocytes. Survival benefit of adjuvant post-surgical treatments and comparison with experimental metastases model. Rodolfo M, et al. **Cancer Immunol Immunother** 1990; 31(1):28–36

Phase I study of monoclonal antibody-ricin A chain immunotoxin XomaZyme-791 in patients with metastatic colon cancer. Byers VS, et al. **Cancer Res** 1989 Nov 1; 49(21):6153–60

Pharmacokinetics of the mouse monoclonal antibody 17-1A in cancer patients receiving various treatment schedules. Frödin JE, et al. **Cancer Res** 1990 Aug 15;50(16):4866–71

Comparison of cellular immunotherapies and anti-CD3 in the treatment of MCA-38-LD experimental hepatic metastases in C57BL/6 mice. Gallinger S, et al. **Cancer Res** 1990 Apr 15;50(8):2476–80

Role of bone marrow transplantation in 90Y antibody therapy of colon cancer xenografts in nude mice. Morton BA, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):1008s–1010s

Adjuvant therapy for colon and rectal cancer. NIH Consensus Development Conference. Metzger U. **Eur J Cancer** 1990;26(6):753–5 (10 ref.)

Consensus developed for colon/rectal cancer [news] Jacobs-Perkins A. **J Natl Cancer Inst** 1990 May 16; 82(10):820

NIH consensus conference. Adjuvant therapy for patients with colon and rectal cancer. **JAMA** 1990 Sep 19; 264(11):1444–50 (0 ref.)

From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Aug 8;264(6):677

Differential effects of parenteral nutrition on tumor growth and erythrocyte polyamine levels in the rat. Grossie VB Jr, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov-Dec; 13(6):590–5

The effect of recombinant interleukin 2 in combination with mitomycin C on advanced cancer. Akiyoshi T, et al. **Jpn J Surg** 1990 May;20(3):365–8

Management of colonic dysplasia and adenomas. Riddell RH. **Monogr Pathol** 1990;(31):356–75 (36 ref.)

Levamisole and fluorouracil for adjuvant therapy of resected colon carcinoma [letter; comment] **N Engl J Med** 1990 Jul 19;323(3):197–8 Comment on: N Engl J Med 1990 Feb 8;322(6):352–8.

Does adjuvant therapy work in colon cancer? [editorial; comment] Mayer RJ. **N Engl J Med** 1990 Feb 8; 322(6):399–401 Comment on: N Engl J Med 1990 Feb 8;322(6):352–8.

Levamisole and fluorouracil for adjuvant therapy of resected colon carcinoma [see comments] Moertel CG, et al. **N Engl J Med** 1990 Feb 8;322(6):352–8 Comment in: N Engl J Med 1990 Feb 8;322(6):399–401. Comment in: N Engl J Med 1990 Jul 19;323(3):197–8.

Clinical status of monoclonal antibodies in the treatment of colorectal carcinoma. Mellstedt H, et al. **Oncology (Williston Park)** 1989 Dec;3(12):25–32; discussion 37–9, 42 (32 ref.)

Manipulation of oxygenation in a human tumour xenograft with BW12C or hydralazine: effects on responses to radiation and to the bioreductive cytotoxicity of misonidazole or RSU-1069. Cole S, et al. **Radiother Oncol** 1989 Nov;16(3):235–43

Association of non-Hodgkin's lymphoma of stomach, and colonic carcinoma; practical implications for management. Neilly IJ, et al. **Scott Med J** 1990 Apr;35(2):44–5

Active immunotherapy in colorectal cancer. Hoover HC Jr, et al. **Semin Surg Oncol** 1989;5(6):436–40

Active specific immunotherapy with antiidiotypic antibodies in patients with solid tumors. O'Connell MJ, et al. **Semin Surg Oncol** 1989;5(6):441–7 (32 ref.)

The role of pre-resectional laser recanalization for obstructing carcinomas of the colon and rectum. Eckhauser ML, et al. **Surgery** 1989 Oct;106(4):710–6; discussion 716–7

Tumor recurrence after liver transplantation followed by high-dose cyclophosphamide, total body irradiation, and autologous bone marrow transplantation for treatment of metastatic liver disease. Margreiter R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2403–4

The blood transfusion effect and colorectal cancer recurrence. Parrott NR, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1475

[Injection treatment with polidocanol for tumor shrinkage of a metastatic tumor of the bile ducts] Brambs HJ. **ROFO** 1990 Jan;152(1):109 **(Ger)**

[Immunoresponses and efficacy after arterial infusion of immunoconjugate A7-NCS in patients with colon cancer] Honda M, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1811–4 (Eng. Abstr.) **(Jpn)**

[Effects of hyperthermochemotherapy on activities of DNA-synthesizing enzymes in 1, 2-dimethylhydrazine (DMH)-induced colon carcinomas in rats] Sakamoto S, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Jun 20; 25(6):1190–6 (Eng. Abstr.) **(Jpn)**

[Adjuvant chemotherapy to gastric cancer and colonic cancer. Association with immunotherapy and carcinoembryonic antigen] Sachira, et al. **Nippon Ika Daigaku Zasshi** 1989 Dec;56(6):622–4 **(Jpn)**

ULTRASTRUCTURE

Frequent expression of receptors for granulocyte-macrophage colony-stimulating factor on human nonhematopoietic tumor cell lines. Miyagawa K, et al. **J Cell Physiol** 1990 Jun;143(3):483–7

[Stereomorphological relationship between colonic adenomas and peri-adenomatous mucosa in scanning electron microscopy. Histogenetic correlations] Diebold MD, et al. **Acta Gastroenterol Belg** 1989 Jul-Oct;51(4-5):375–81 (Eng. Abstr.) **(Fre)**

[Inflammatory giant polyps of the colon] Balázs M, et al. **Orv Hetil** 1989 Oct 22;130(43):2305–8 (29 ref.) (Eng. Abstr.) **(Hun)**

VETERINARY

Electron microscopy of intestinal adenomatosis in the blue fox, Alopex lagopus. Eriksen K, et al. **J Comp Pathol** 1990 Apr;102(3):279–90

COLONIC POLYPS

The association of multiple colonic adenomatous polyps with cancer of the colon. Schuman BM, et al. **Am J Gastroenterol** 1990 Jul;85(7):846–9

Primary rectal lymphoma and malignant lymphomatous polyposis. Two cases illustrating current methods in diagnosis and management. Ohri SK, et al. **Dis Colon Rectum** 1989 Dec;32(12):1071–4

The adenoma to carcinoma sequence. Tierney RP, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):81–94 (116 ref.)

[Ampullar, peri-ampullar and colonic tumors: an association not to be disregarded? Apropos of 3 cases (letter)] Kunkel D, et al. **Gastroenterol Clin Biol** 1990;14(5):512–3 **(Fre)**

[Diffuse gastric polyposis associated with colonic polyposis (letter)] Roche M, et al. **J Chir (Paris)** 1989 Aug-Sep; 126(8–9):477–9 **(Fre)**

[Submucosal polyps of the large intestine. Observations on 2 cases and review of the literature] Manfrini R, et al. **Minerva Dietol Gastroenterol** 1990 Jan-Mar;36(1):43–5 (Eng. Abstr.) **(Ita)**

ANALYSIS

[Mucin histochemical changes in various colo-rectal polyps in relation to carcinoma of the large bowel] Yu JY. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Jun;18(2):121–4 (Eng. Abstr.) **(Chi)**

COMPLICATIONS

Finger clubbing in gastrointestinal polyposis [letter] Lysy J, et al. **Am J Gastroenterol** 1990 Jan;85(1):106–7

Colon cancer and polyps in acromegaly: increased risk associated with family history of colon cancer. Brunner JE, et al. **Clin Endocrinol (Oxf)** 1990 Jan;32(1):65–71

Giant inflammatory polyps associated with idiopathic inflammatory bowel disease. An ultrastructural study of five cases. Balázs M. **Dis Colon Rectum** 1990 Sep; 33(9):773–7

Skin tags—a marker for colon polyps? Varma JR. **J Am Board Fam Pract** 1990 Jul-Sep;3(3):175–80

Clinical quiz. Severe intravascular haemolysis plus haemangiomatous polyp in the colon in a G-6-PD deficient subject. Srivastava RN, et al. **Pediatr Nephrol** 1990 May; 4(3):301–2

[Ulcerative colitis with localized clustered inflammatory polyposis; report of a case] Suekane H, et al. **Rinsho Hoshasen** 1990 May;35(5):653–6 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Lectin histochemistry of adenomatous polyps. Not a predictor of metachronous lesions. McGarrity TJ, et al. **Cancer** 1989 Oct 15;64(8):1708–13

The colonoscopist and the Lynch syndromes. Lanspa SJ, et al. **Gastrointest Endosc** 1990 Mar-Apr;36(2):156–8

Endoscopic features of villous tumors of the colon: correlation with histological findings. Iida M, et al. **Hepatogastroenterology** 1990 Jun;37(3):342–4

Skin tags: markers for colonic polyps? Graffeo M, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 1):1029–30

Adenomatous polyp in a four-year-old child. Tolia V, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):262–4

Small adenomas detected during fecal occult blood test screening for colorectal cancer. The impact of serendipity [see comments] Ransohoff DF, et al. **JAMA** 1990 Jul 4; 264(1):76–8 Comment in: JAMA 1990 Jul 4;264(1):84–5.

Colonic polyps, occult blood, and chance [editorial; comment] Simon JB. **JAMA** 1990 Jul 4;264(1):84–5 Comment on: JAMA 1990 Jul 4;264(1):76–8.

Colonoscopic management of polypoid lesions. Forde KA. **Surg Clin North Am** 1989 Dec;69(6):1287–308

Paediatric colonoscopy—an experience of 102 cases. Tam PK. **Z Kinderchir** 1988 Sep;43 Suppl 1:60–1

[Soft skin fibromas: study of their importance and diagnostic significance for colonic neoplasms] Ochsendorf FR, et al. **Hautarzt** 1990 Apr;41(4):207–11 (Eng. Abstr.) **(Ger)**

[Colon endosonography. Initial experiences in clinical use] Lorenz R, et al. **Med Klin** 1990 Feb 15;85(2):57–60 (Eng. Abstr.) **(Ger)**

[Diagnosis of tumors of the large intestine by colonic ultrasound] Limberg B. **Ultraschall Med** 1990 Jun; 11(3):127–31 (Eng. Abstr.) **(Ger)**

[Fiber-optic endoscopy of the lower gastrointestinal tract in children] Rasiński A, et al. **Pediatr Pol** 1989 May; 64(5):281–7 (Eng. Abstr.) **(Pol)**

[Multiple juvenile polyposis in children] Torres Alvarez P, et al. **GEN** 1988 Apr-Jun;42(2):48–53 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Adenocarcinoma, adenomas and polyps of the colon. Histochemical study. Czernobilsky B, et al. **Cancer** 1968 Feb;21(2):165–77

Detection and characterization of sucrase-isomaltase in adult human colon and in colonic polyps. Beaulieu JF, et al. **Gastroenterology** 1990 Jun;98(6):1467–77

EPIDEMIOLOGY

The National Polyp Study. Patient and polyp characteristics associated with high-grade dysplasia in colorectal adenomas. O'Brien MJ, et al. **Gastroenterology** 1990 Feb; 98(2):371–9

Natural history of colorectal polyps and the effect of polypectomy on occurrence of subsequent cancer. Murakami R, et al. **Int J Cancer** 1990 Aug 15;46(2):159–64

Current status of tumor of the bowel following ureterosigmoidostomy: a review. Husmann DA, et al. **J Urol** 1990 Sep;144(3):607–10 (28 ref.)

The benefit of colonoscopy. Brenna E, et al. **Scand J Gastroenterol** 1990 Jan;25(1):81–8

[The association of skin fibromas and intestinal polyps: an age-related effect] Leopolder-Ochsendorf A, et al. **Dtsch Med Wochenschr** 1990 Feb 9;115(6):208–11 (Eng. Abstr.) **(Ger)**

[Multiple primary cancer of the large intestine in patients with diffuse polyposis] Nikitin AM, et al. **Vopr Onkol** 1990; 36(7):826–31 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Interactive effects of dietary wheat bran and lard on N-methyl-N'-nitro-N-nitrosoguanidine-induced colon carcinogenesis in rats. Sinkeldam EJ, et al. **Cancer Res** 1990 Feb 15;50(4):1092–6

[Colonic neoplasms and skin fibromas: common determinants and their significance] Leopolder-Ochsendorf A, et al. **Klin Wochenschr** 1990 Jan 19;68(2):83–8 (Eng. Abstr.) **(Ger)**

GENETICS

Phenotypic variation in colorectal adenoma/cancer expression in two families. Hereditary flat adenoma syndrome. Lynch HT, et al. **Cancer** 1990 Sep 1;66(5):909–15

Two chromosomal locations for human ornithine decarboxylase gene sequences and elevated expression in colorectal neoplasia. Radford DM, et al. **Cancer Res** 1990 Oct 1;50(19):6146–53

Hepatoblastoma and polyposis coli (familial adenomatous polyposis) [clinical conference] Phillips M, et al. **Med Pediatr Oncol** 1989;17(5):441–7

[Familial polyposis: epidemiology] Crosignani P, et al. **Minerva Chir** 1989 Aug 31;44(15–16):1841–3 **(Ita)**

IMMUNOLOGY

Increased expression of a putative adenoma-associated antigen in pre-colonoscopic effluent of patients with colorectal cancer. Tobi M, et al. **Cancer Lett** 1990 May 15;51(1):21–5

The expression of carcinoembryonic antigen and secretory component in adenomas of the human colon and rectum. Griffioen G, et al. **Dis Colon Rectum** 1989 Nov;32(11):954–9

Contents of tissue CEA and CA19-9 in colonic polyp and colorectal cancer, and their clinical significance. Imamura Y, et al. **Gastroenterol Jpn** 1990 Apr;25(2):186–92

METABOLISM

Abnormalities of lectin histochemistry in familial polyposis coli and hereditary nonpolyposis colorectal cancer. Sams JS, et al. **Cancer** 1990 Aug 1;66(3):502–8 (50 ref.)

PATHOLOGY

"Juvenile" retention polyps of the colon and rectum. Silverberg SG. **Am J Dig Dis** 1970 Jul;15(7):617–25

Generalized juvenile polyposis with carcinoma. Bentley E, et al. **Am J Gastroenterol** 1989 Nov;84(11):1456–9 (25 ref.)

Pathologist agreement in the interpretation of colorectal polyps. Demers RY, et al. **Am J Gastroenterol** 1990 Apr; 85(4):417–21

Mixed hyperplastic adenomatous polyps/serrated adenomas. A distinct form of colorectal neoplasia. Longacre TA, et

al. Am J Surg Pathol 1990 Jun;14(6):524–37 (36 ref.)
A clinico-pathological profile of colonic polyps in Brunei Darussalam—a study of 25 cases treated by colonoscopic polypectomy. Alexander MJ, et al.
Ann Acad Med Singapore 1990 May;19(3):357–8
Characterization of human colorectal mucosa, polyps, and cancers by means of computerized morphonuclear image analyses. Verhest A, et al. Cancer 1990 May 1;65(9):2047–54
Fibrofolliculomas, tricodiscomas and acrochordons (Birt–Hogg–Dubé) associated with intestinal polyposis. Rongioletti F, et al. Clin Exp Dermatol 1989 Jan;14(1):72–4
Crypt alterations and collagen deposition in hyperplastic polyps of colorectum. Grondin MV, et al. Dig Dis Sci 1990 Jan;35(1):12–9
Laser-induced fluorescence spectroscopy of human colonic mucosa. Detection of adenomatous transformation. Kapadia CR, et al. Gastroenterology 1990 Jul;99(1):150–7
Cytologic study of colonic lavage effluent in colonic adenocarcinoma [letter] Brandt LJ, et al.
Gastrointest Endosc 1989 Nov–Dec;35(6):584–5
Delayed, massive hemorrhage following electrocoagulating biopsy ("hot biopsy") of a diminutive colonic polyp. Quigley EM, et al. Gastrointest Endosc 1989 Nov–Dec; 35(6):559–63
Significance of venous and lymphatic invasion in malignant polyps of the colon and rectum. Muller S, et al. Gut 1989 Oct;30(10):1385–91
Signet ring cell carcinoma in adenomatous polyp at site of ureterosigmoidostomy 16 years after conversion to ileal conduit. Sohn M, et al. J Urol 1990 Apr;143(4):805–7 (29 ref.)
Natural history and current management of colorectal polyps. Hornsby-Lewis L, et al. Oncology (Williston Park) 1990 Apr;4(4):139–44; discussion 144, 147–8 (36 ref.)
Dysplastic and malignant areas in hyperplastic polyps of the large intestine. Teoh HH, et al. Pathology 1989 Apr; 21(2):138–42
Activation of the pp60c-src protein kinase is an early event in colonic carcinogenesis. Cartwright CA, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(2):558–62
[Histological classification of schistosome egg polyp and its clinical significance: an analysis of 272 cases] Yu XR.
Chung-hua Ping Li Hsueh Tsa Chih 1989 Dec;18(4):274–7 (Eng. Abstr.) (Chi)
[Histology of colonic polyps] Delos M, et al.
Acta Gastroenterol Belg 1989 Jul–Oct;51(4–5):366–74 (32 ref.) (Eng. Abstr.) (Fre)
[Inverse polypoid hamartoma of the rectum with colonic extension of the lesions and deep cystic colitis with rectal involvement. Apropos of an anatomo-clinical case report] Hoang C, et al. Acta Gastroenterol Belg 1989 Jul–Oct; 51(4–5):338–45 (Eng. Abstr.) (Fre)
[Polyps with an invasive degenerated focus] Taton G, et al.
Acta Gastroenterol Belg 1989 Jul–Oct;51(4–5):397–402 (Eng. Abstr.) (Fre)
[Flow cytometry of polypoid neoplasms of the colon resected by endoscopy] Beuvon F, et al. Gastroenterol Clin Biol 1989 Aug–Sep;13(8–9):671–5 (Eng. Abstr.) (Fre)
[Clinico-pathological studies on Is, Ip polyps and flat elevations in the large intestine] Kida M, et al.
Nippon Shokakibyo Gakkai Zasshi 1990 May;87(5):1154–9 (Eng. Abstr.) (Jpn)
[Hyperplastic polyp of the colon] Serras C, et al.
Acta Med Port 1989 Aug–Oct;2(4–5):234–6 (Eng. Abstr.) (Por)
[Multiple adenomatous polyposis of the colon with malignant changes] Petrović S, et al. Srp Arh Celok Lek 1987 May–Jun;115(5–6):615–21 (Eng. Abstr.) (Sec)

PREVENTION & CONTROL

The role of sigmoidoscopy for asymptomatic patients. Results of three annual screening sigmoidoscopies, polypectomy, and subsequent surveillance colonoscopy in a primary-care setting. Riff ER, et al. Cleve Clin J Med 1990 Mar–Apr; 57(2):131–6
Effect of wheat fiber and vitamins C and E supplements on rectal polyps in patients at high risk for colon cancer. Nutr Rev 1990 May;48(5):218–20

RADIOGRAPHY

Atypical hyperplastic polyps at double-contrast barium enema examination. Levine MS, et al. Radiology 1990 Jun; 175(3):691–4
Bowler-hat sign: a simple principle for differentiating polyps from diverticula. Miller WT Jr, et al. Radiology 1989 Dec; 173(3):615–7
[The radiologic picture of multiple adenomatosis of the colon: correlation with the natural history] Severini A.
Minerva Chir 1989 Aug 31;44(15–16):1859–60 (Ita)
[Radio-Geometric consideration of basal indentation using phantoms and specimens] Sato T, et al.
Rinsho Hoshasen 1989 Dec;34(13):1555–61 (Eng. Abstr.) (Jpn)

SECONDARY

[Metastasis of a stomach carcinoma in a solitary adenomatous cecal polyp] Tiszlavicz L. Zentralbl Allg Pathol 1990; 136(3):277–82 (Eng. Abstr.) (Ger)
[Stomach cancer metastasizing into a solitary adenomatous colonic polyp] Tiszlavicz L. Orv Hetil 1990 Jun 10; 131(23):1259–61 (Eng. Abstr.) (Hun)

SURGERY

Effect of preoperative colonoscopy on the incidence of synchronous and metachronous neoplasms. Barillari P, et al. Acta Chir Scand 1990 Feb;156(2):163–6
[Adequacy of hot biopsy for the treatment of diminutive colonic polyps. Response to Dr. Vanagunas [letter; comment]. Hoffmann SM. Am J Gastroenterol 1989 Nov; 84(11):1468–9 Comment on: Am J Gastroenterol 1989 Apr;84(4):383–5.
Cancerous colonic polyps. "Hands on" or "hands off?". Wolff WL, et al. Am Surg 1990 Mar;56(3):148–52 (45 ref.)
Stomas in colorectal surgery: options and alternatives. Nasmyth DG. Dig Dis 1990;8(4):240–52 (60 ref.)
Usefulness of performing colonoscopy one year after endoscopic polypectomy. Woolfson IK, et al.
Dis Colon Rectum 1990 May;33(5):389–93
Hazards of contact tip use of Nd:YAG laser in treatment of colonic lesions [letter; comment] Fraiberg EN, et al. Gastrointest Endosc 1989 Sep–Oct;35(5):468 Comment on: Gastrointest Endosc 1989 Jan–Feb;35(1):16–21.
The importance of polypectomy prior to laser therapy in broad-based villous adenomas [letter] Sander R, et al.
Gastrointest Endosc 1990 May–Jun;36(3):318
Eradication of diminutive polyps: a prospective evaluation of bipolar coagulation versus conventional biopsy removal. Woods A, et al. Gastrointest Endosc 1989 Nov–Dec; 35(6):536–40
Colonoscopic polypectomy. North Indian experience. Kumar N, et al. J Assoc Physicians India 1990 Apr;38(4):272–4
Invasive colorectal adenomas: surgery versus colonoscopic polypectomy. Pines A, et al. J Surg Oncol 1990 Jan; 43(1):53–5
[The Nd: YAG laser in the treatment of colonic polyps] Shan L. Chung Hua Wai Ko Tsa Chih 1989 Jul;27(7):392–3, 443 (Eng. Abstr.) (Chi)
[Risk of recurrence of colorectal polyps following endoscopic resection] Van Wymersch T, et al.
Acta Gastroenterol Belg 1989 Jul–Oct;51(4–5):391–6 (Eng. Abstr.) (Fre)
[Multiple cancers of the colon. Cancers and polyps. Should total colectomy be performed?] Gallot D. Ann Chir 1989; 43(9):709–13; discussion 713–5 (Fre)
[Endoscopic laser treatment of neoplasm and tubulovillous adenoma of the rectosigmoid. Initial experiences and review of the literature] Eitner K, et al.
Gastroenterol J 1990;50(1):38–42 (43 ref.) (Eng. Abstr.) (Ger)
[Indications, technics and complications in endoscopic removal of polyps of the large intestine] Rabast U.
Med Klin 1990 Apr 15;85(4):194–9 (19 ref.) (Ger)
[Colorectal invagination in adults following removal of a sigmoid polyp] Wallner B, et al. Rontgenblatter 1990 Feb; 43(2):78–9 (Eng. Abstr.) (Ger)
[Therapy concepts in large colorectal polyps] Junginger T, et al. Z Gastroenterol [Verh] 1990 Apr;25:115–6 (Ger)
[Laser therapy of colorectal tumors] Schultheis KH, et al. Zentralbl Chir 1990;115(7):419–32 (Eng. Abstr.) (Ger)
[Proctocolectomy and ileo-anal reservoir in the treatment of ulcerous rectocolitis and diffuse colonic polyposis. A report on the Italian registry and on a new model of the 3-loop reservoir] Pescatori M. Minerva Chir 1989 Aug 31; 44(15–16):1875–7 (Ita)
[Endoscopic treatment of colorectal polyps in children] Spinelli P, et al. Pediatr Med Chir 1989 May–Jun; 11(3):341–2 (Eng. Abstr.) (Ita)
[Endoscopic polypectomy in children] Rasiński A, et al.
Pediatr Pol 1989 Feb;64(2):117–22 (Pol)
[Practical aspects of intracolonoscopic polypectomy] Regula J, et al. Wiad Lek 1989 Aug 15–Sep 15;42(16–18):996–9 (Eng. Abstr.) (Pol)
[Colonoscopy in the diagnosis and treatment of small colonic polyps] Kazarian GA, et al. Khirurgiia (Mosk) 1990 Apr; (4):67–9 (Eng. Abstr.) (Rus)

COLONIC PSEUDO-OBSTRUCTION see under **INTESTINAL PSEUDO-OBSTRUCTION**

COLONOSCOPY

Effect of preoperative colonoscopy on the incidence of synchronous and metachronous neoplasms. Barillari P, et al. Acta Chir Scand 1990 Feb;156(2):163–6
Clinical disease activity and inflammatory activity in the rectum in relation to mucosal inflammation assessed by colonoscopy. A study of children and adolescents with chronic inflammatory bowel disease. Holmquist L, et al. Acta Paediatr Scand 1990 May;79(5):527–34
The value of barium enema and colonoscopy in patients infected with HIV. Connolly GM, et al. AIDS 1990 Jul; 4(7):687–9
Controversies, dilemmas, and dialogues. A hyperplastic polyp is discovered on flexible sigmoidoscopy. Is a full colonoscopy indicated? Achkar E, et al.
Am J Gastroenterol 1990 Apr;85(4):367–70
Controversies, dilemmas and dialogues. Is there a need to perform full colonoscopy in a middle-age person with episodic bright red blood per rectum and internal hemorrhoids? Forde KA, et al. Am J Gastroenterol 1989 Oct;84(10):1227–8
A randomized prospective trial comparing oral sodium phosphate with standard polyethylene glycol-based lavage solution (Golytely) in the preparation of patients for colonoscopy. Vanner SJ, et al. Am J Gastroenterol 1990 Apr;85(4):422–7
The effect of preoperative endoscopy on recurrence and survival following surgery for colorectal carcinoma. Howard ML, et al. Am Surg 1990 Mar;56(3):124–7
Fluoroscopy in colonoscopy. Who is using it and why? Rauh SM, et al. Am Surg 1989 Nov;55(11):669–74
Colonoscopic surveillance after diagnosis of carcinoma of the colon and rectum. Michael Z, et al. Ann Chir 1989; 43(7):568–9
Informed consent for colonoscopy. A prospective study. Mark JS, et al. Arch Intern Med 1990 Apr;150(4):777–80
Safety of Picolax in inflammatory bowel disease [letter; comment] Evans M, et al. BMJ 1989 Oct 28; 299(6707):1101–2 Comment on: BMJ 1989 Sep 23;299(6702):776–7.
Whole gut irrigation and Prepacol laxative preparation for colonoscopy: a comparison. Köhler L, et al. Br J Surg 1990 May;77(5):527–9
Shigella colitis with radiological and endoscopic correlation: case report. Zalev AH, et al. Can Assoc Radiol J 1989 Dec;40(6):328–30
Prospective and retrospective analysis of colonoscopy findings in patients with a history of colorectal carcinoma in first-degree relatives. Brzezinski W, et al.
Can J Surg 1990 Aug;33(4):314–6
Diagnosis of colorectal carcinoma—is colonoscopy superior to barium enema? Co E, et al.
Chung Hua I Hsueh Tsa Chih 1990 Jan;45(1):60–3
Through the colonoscope—a radiologist's view. Rawlinson J, et al. Clin Radiol 1990 Apr;41(4):253–7
Avoidance of sedation during total colonoscopy [see comments] Herman FN. Dis Colon Rectum 1990 Jan; 33(1):70–2 Comment in: Dis Colon Rectum 1990 Jun;33(6):540–1.
Colonoscopy in patients with a primary family history of colon cancer [letter] McConnell JC. Dis Colon Rectum 1990 Mar;33(3):259
Colonoscopy in patients with a primary family history of colon cancer. McConnell JC, et al. Dis Colon Rectum 1990 Feb;33(2):105–7
Office colonoscopy—a safe procedure in selected patients. Perry RE, et al. Dis Colon Rectum 1989 Dec;32(12):1031–3
Clean sweep of the colon. The use of intraoperative colonoscopy. Saclarides TJ, et al. Dis Colon Rectum 1989 Oct;32(10):864–6
Colonoscopy or flexible proctosigmoidoscopy [letter] Stephenson BM, et al. Dis Colon Rectum 1990 Aug; 33(8):722
Management of patients with invasive carcinoma removed by colonoscopic polypectomy. Sugihara K, et al.
Dis Colon Rectum 1989 Oct;32(10):829–34
Usefulness of performing colonoscopy one year after endoscopic polypectomy. Woolfson IK, et al.
Dis Colon Rectum 1990 May;33(5):389–93
The value of Haemoccult [letter; comment] Adamsen S.
Endoscopy 1990 Mar;22(2):90 Comment on: Endoscopy 1989 May;21(3):136–40.
Comparison of three colon cleansing methods: evaluation of a randomized clinical trial with 300 ambulatory patients. Hangartner PJ, et al. Endoscopy 1989 Nov;21(6):272–5
The colon in shigellosis: serial colonoscopic appearances in Shigella dysenteriae I. Khuroo MS, et al. Endoscopy 1990 Jan;22(1):35–8
Endoscopic removal of inverted sigmoid diverticulum—is it a dangerous procedure? [letter] Ladas SD, et al.
Endoscopy 1989 Sep;21(5):243–4
Role of colonoscopy in gallstone ileus:—a case report. Patel SA, et al. Endoscopy 1989 Nov;21(6):291–2
Negative Haemoccult test in malignant and premalignant lesions of the colon, validation of the Haemoccult test with total colonoscopy [letter; comment] Windeler J.
Endoscopy 1990 Mar;22(2):88–9 Comment on: Endoscopy 1989 May;21(3):136–40.
Colorectal adenomas in the Lynch syndromes. Results of a colonoscopy screening program. Lanspa SJ, et al.
Gastroenterology 1990 May;98(5 Pt 1):1117–22
Isolated cytomegalovirus ileitis detected by colonoscopy. Lepinski SM, et al. Gastroenterology 1990 Jun;98(6):1704–6
Flexible sigmoidoscopy plus air contrast barium enema versus colonoscopy for suspected lower gastrointestinal bleeding. Rex DK, et al. Gastroenterology 1990 Apr;98(4):855–61
Cytologic study of colonic lavage effluent in colonic adenocarcinoma [letter] Brandt LJ, et al.
Gastrointest Endosc 1989 Nov–Dec;35(6):584–5
Comparison of a new sulfate-free polyethylene glycol electrolyte lavage solution versus a standard solution for colonoscopy cleansing. DiPalma JA, et al.
Gastrointest Endosc 1990 May–Jun;36(3):285–9
Beware of the incarcerated hernia [letter] Fulp SR, et al.
Gastrointest Endosc 1990 May–Jun;36(3):318–9
Nasal oxygen alleviates hypoxemia in colonoscopy patients sedated with midazolam and meperidine. Gross JB, et al.
Gastrointest Endosc 1990 Jan–Feb;36(1):26–9
The colonoscopist and the Lynch syndromes. Lanspa SJ, et al. Gastrointest Endosc 1990 Mar–Apr;36(2):156–8
Endoscopic ultrasonography in the evaluation of colon and rectal disease. Rösch T, et al. Gastrointest Endosc 1990 Mar–Apr;36(2 Suppl):S33–9 (35 ref.)
Blood-red residual after cherry-flavored magnesium citrate [letter] Slimak G, et al. Gastrointest Endosc 1990 Jan–Feb; 36(1):79–80

The "snow white" sign [letter; comment] Waye JD, et al. **Gastrointest Endosc** 1989 Nov-Dec;35(6):581-2 Comment on: Gastrointest Endosc 1989 Mar-Apr;35(2)93-4.
Colonoscopic diagnosis of paraprosthetic-enteric fistula [letter] Wilcox CM, et al. **Gastrointest Endosc** 1990 Mar-Apr;36(2):166-7
Teaching gastrointestinal endoscopy by computer simulation: a prototype for colonoscopy and ERCP. Williams CB, et al. **Gastrointest Endosc** 1990 Jan-Feb;36(1):49-54
Endoscopic features of villous tumors of the colon: correlation with histological findings. Iida M, et al. **Hepatogastroenterology** 1990 Jun;37(3):342-4
The effect of simethicone on colonic visibility after night-prior colonic lavage. A double-blind randomized study. McNally PR, et al. **J Clin Gastroenterol** 1989 Dec; 11(6):650-2
Colonoscopy in the pediatric patient. Steffen RM, et al. **J Pediatr** 1989 Oct;115(4):507-14 (75 ref.)
Colonoscopy in the management of upper respiratory infection [letter] Perkel MS. **N Engl J Med** 1990 May 17; 322(20):1471
Colonoscopic diagnosis of ileocolic intussusception in an adult. A case report. Chang FY, et al. **S Afr Med J** 1990 Mar 17;77(6):313-4
The benefit of colonoscopy. Brenna E, et al. **Scand J Gastroenterol** 1990 Jan;25(1):81-8
Endoscopy in inflammatory bowel disease. Rutgeerts P, et al. **Scand J Gastroenterol Suppl** 1989;170:12-5; discussion 16-9
Surveillance colonoscopy after resection for colon carcinoma. Brady PG, et al. **South Med J** 1990 Jul; 83(7):765-8
Colonoscopic management of polypoid lesions. Forde KA. **Surg Clin North Am** 1989 Dec;69(6):1287-308
Colonoscopic diagnosis and treatment of lower gastrointestinal bleeding. Schrock TR. **Surg Clin North Am** 1989 Dec;69(6):1309-25
Colonoscopic decompression of pseudo-obstruction and volvulus. Strodel WE, et al. **Surg Clin North Am** 1989 Dec; 69(6):1327-35 (63 ref.)
Colonoscopy, mucosal biopsy and brush cytology in the assessment of patients with colorectal inflammatory bowel disease. Isbister WH, et al. **Surg Endosc** 1989;3(3):159-63
Endoscopic dilation of colonic postoperative strictures. Pietropaolo V, et al. **Surg Endosc** 1990;4(1):26-30
Endoscopic alternatives in the management of colonic strictures. Oz MC, et al. **Surgery** 1990 Sep;108(3):513-9
Colonoscopy in Jamaica--a 12-year experience. Lee MG, et al. **West Indian Med J** 1989 Dec;38(4):213-6
Six-year results of annual colonoscopy after resection of colorectal cancer. Juhl G, et al. **World J Surg** 1990 Mar-Apr;14(2):255-60; discussion 260-1
[Comparative fiber colonoscopic and x-ray studies in diseases of the large intestine] Kotsev I, et al. **Vutr Boles** 1989; 28(5):80-4 (Eng. Abstr.) **(Bul)**
[Results of colonoscopic examination 2 years after polypectomy of an intestinal adenoma] Zoubek V. **Cas Lek Cesk** 1989 Oct 27;128(43-44):1382-4 (Eng. Abstr.) **(Cze)**
[Contribution of coloscopy to the diagnosis and treatment of hemorrhage in the colorectal area] Smejkal K, et al. **Rozhl Chir** 1990 Apr;69(4):334-8 (Eng. Abstr.) **(Cze)**
[The utility of monitoring oxygen saturation in coloscopy under propofol anesthesia] Quinet F, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R33 **(Fre)**
[Endoscopy and histology in the diagnosis of inflammatory intestinal diseases] Peeters JP, et al. **Rev Med Brux** 1989 Dec;10(10):414-8 (Eng. Abstr.) **(Fre)**
[Preparation for colonoscopy using Golytely--a sure method? Comparative histological and clinical study between lavage and saline laxatives] Phillip J, et al. **Med Klin** 1990 Jul 15;85(7):415-20 (Eng. Abstr.) **(Ger)**
[Endoscopic resolutions of volvulus of the sigmoid colon] Marino BM, et al. **Minerva Chir** 1990 Apr 15;45(7):463-7 (Eng. Abstr.) **(Ita)**
[The role of emergency colonoscopy in colorectal hemorrhage] Giorgio P, et al. **Minerva Dietol Gastroenterol** 1990 Jan-Mar;36(1):19-22 (Eng. Abstr.) **(Ita)**
[Efficacy of the disinfection of fiber endoscopes] Casale V, et al. **Minerva Med** 1990 Jan-Feb;81(1-2):75-8 (Eng. Abstr.) **(Ita)**
[Colonoscopy as primary procedure in the diagnosis of colonic neoplasms] Monserat R, et al. **GEN** 1989 Apr-Jun; 43(2):97-9 (Eng. Abstr.) **(Spa)**
[Colonoscopic approach in the therapy of sigmoid volvulus] Clemente Ricote G, et al. **Rev Esp Enferm Dig** 1990 Feb; 77(2):129-32 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Delayed splenic rupture after colonoscopy [letter] Merchant AA, et al. **Am J Gastroenterol** 1990 Jul;85(7):906-7
Listeria septicemia after colonoscopy in an ulcerative colitis patient receiving ACTH [letter] Shemesh O, et al. **Am J Gastroenterol** 1990 Feb;85(2):216
Ileus as a complication of colonoscopy [letter] Stermer E, et al. **Am J Gastroenterol** 1990 Mar;85(3):333-4
Perforation of the large bowel during colonoscopy in Singapore. Soon JC, et al. **Am Surg** 1990 May;56(5):285-8
Pain relief for outpatient colonoscopy: a comparison of alfentanil with fentanyl. Holloway AM, et al. **Anaesth Intensive Care** 1990 May;18(2):210-3
Splenic injury during colonoscopy. Gores PF, et al. **Arch Surg** 1989 Nov;124(11):1342
Oxygen desaturation and changes in breathing pattern in patients undergoing colonoscopy and gastroscopy. Barkin JS, et al. **Gastrointest Endosc** 1989 Nov-Dec;35(6):526-30
Arterial oxygen desaturation during ambulatory colonoscopy: predictability, incidence, and clinical insignificance. Bilotta JJ, et al. **Gastrointest Endosc** 1990 May-Jun;36(3 Suppl):S5-8
Physiologic changes during colonoscopy. Fennerty MB, et al. **Gastrointest Endosc** 1990 Jan-Feb;36(1):22-5
Air, air, everywhere: pneumatosis cystoides coli after colonoscopy [letter] McCollister DL, et al. **Gastrointest Endosc** 1990 Jan-Feb;36(1):75-6
Splenic injury following colonoscopy. Rockey DC, et al. **Gastrointest Endosc** 1990 May-Jun;36(3):306-9
[Heart rhythm disorders in endoscopic examinations. Report of a case with asystole and literature review] Harloff M, et al. **Med Klin** 1990 May 15;85(5):347-9 (25 ref.) **(Ger)**
[Arrhythmia during endoscopic retrograde cholangiopancreatography (ERCP) and colonoscopy] Wierzbicka-Paczos E. **Pol Arch Med Wewn** 1989 May; 81(5):295-302 (Eng. Abstr.) **(Pol)**

ECONOMICS

Evaluation and therapy of the patient with fecal occult blood loss: a decision analysis. Lashner BA, et al. **Am J Gastroenterol** 1990 Sep;85(9):1088-95

INSTRUMENTATION

A practical aid in colonoscopy. Eusebio EB. **Dis Colon Rectum** 1989 Nov;32(11):996-7
Colonoscopic polypectomy. North Indian experience. Kumar N, et al. **J Assoc Physicians India** 1990 Apr;38(4):272-4
Endoscopic criteria of Crohn's disease in childhood and adolescence. Burdelski M, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:61-2
Paediatric colonoscopy--an experience of 102 cases. Tam PK. **Z Kinderchir** 1988 Sep;43 Suppl 1:60-1
[The video-colonoscope: evaluation of its optic qualities] Ducrotté P. **Gastroenterol Clin Biol** 1990;14(2):195-6 **(Fre)**
[Colon endosonography. Initial experiences in clinical use] Lorenz R, et al. **Med Klin** 1990 Feb 15;85(2):57-60 (Eng. Abstr.) **(Ger)**
[Retrograde ileography. Contrast imaging of the terminal ileum by colonoscopy] Halvorsen FA, et al. **Tidsskr Nor Laegeforen** 1990 Mar 30;110(9):1111-2 (Eng. Abstr.) **(Nor)**

METHODS

Evaluation of the occult blood test in screening for colorectal neoplasms. A prospective study using flexible endoscopy. Reilly JM, et al. **Am Surg** 1990 Mar;56(3):119-23
Single session panendoscopy. Indications and expectations for yield. Unger SW, et al. **Am Surg** 1990 Mar;56(3):144-7
Avoidance of sedation [letter; comment] O'Connor JJ. **Dis Colon Rectum** 1990 Jun;33(6):540-1 Comment on: Dis Colon Rectum 1990 Jan;33(1):70-2.
Help the patient comply with the colonic prep [letter] London FA. **Gastroenterology** 1990 May;98(5 Pt 1):1393
Endoscopic treatment of colonic angiodysplasia: the procedure was a success, but.... Thirlby RC. **Gastroenterology** 1990 May;98(5 Pt 1):1386-7
Colonoscopy with fluoroscopy [editorial] Rogers BH. **Gastrointest Endosc** 1990 Jan-Feb;36(1):71-2
Colonoscopy without fluoroscopy [editorial] Waye JD. **Gastrointest Endosc** 1990 Jan-Feb;36(1):72-3
Randomized clinical trial of two colonoscopy preparation methods for elderly patients. Lashner BA, et al. **J Clin Gastroenterol** 1990 Aug;12(4):405-8
[Clinical experiences with early colonoscopic decompression in acute pseudo-obstruction of the colon] Martin WR, et al. **Med Klin** 1990 Apr 15;85(4):187-90 (Eng. Abstr.) **(Ger)**
[Indications, technics and complications in endoscopic removal of polyps of the large intestine] Rabast U. **Med Klin** 1990 Apr 15;85(4):194-9 (19 ref.) **(Ger)**
[Colonoscopy: indications, procedure, results] Behrens R, et al. **Monatsschr Kinderheilkd** 1989 Dec;137(12):796-8 (Eng. Abstr.) **(Ger)**
[Value of a new simple mechanical large intestine preparation in comparison with PEG lavage] Hölbling N, et al. **Z Gastroenterol** 1990 Feb;28(2):97-100 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Endoscopy: a patient's view. Lydeard S. **Practitioner** 1989 May 8;233(1468):696, 699

STANDARDS

Reliability of colonoscopy. Byrd RL, et al. **Dis Colon Rectum** 1989 Dec;32(12):1023-5

VETERINARY

Evaluation of a colonic lavage solution to prepare the colon of the dog for colonoscopy. Burrows CF. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1719-21
Comparison of an orally administered gastrointestinal lavage solution with traditional enema administration as preparation for colonoscopy in dogs. Richter KP, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1727-31

COLONY COUNT, MICROBIAL

Effect of chlorhexidine scrub on postoperative bacterial counts. Dahl J, et al. **Am J Surg** 1990 May;159(5):486-8
Effect of povidone-iodine and saline soaking on bacterial counts in acute, traumatic, contaminated wounds. Lammers RL, et al. **Ann Emerg Med** 1990 Jun;19(6):709-14
Most-probable-number procedures for enumerating ruminal bacteria, including the simultaneous estimation of total and cellulolytic numbers in one medium. Dehority BA, et al. **Appl Environ Microbiol** 1989 Nov;55(11):2789-92
Ultrafiltration of dialysis fluid for hemodialysis. Bambauer R, et al. **ASAIO Trans** 1989 Jul-Sep;35(3):516-9
Microbiologic survey of prosthetic blood pumps presterilization and poststerilization and at explant retrieval. Pantalos GM, et al. **ASAIO Trans** 1989 Jul-Sep;35(3):702-5
Improved ATP methodology for biomass assays. Schram E, et al. **J Biolumin Chemilumin** 1989 Jul;4(1):390-8
A review of bioluminescent ATP techniques in rapid microbiology. Stanley PE. **J Biolumin Chemilumin** 1989 Jul;4(1):375-80 (22 ref.)
New method for quantitating yeasts in clinical specimens. Koch HA, et al. **Mycoses** 1989 Oct;32(10):524-6
[Effect of rokitamycin on bacterial flora in human feces] Motohiro T, et al. **Jpn J Antibiot** 1990 Feb;43(2):285-317 (Eng. Abstr.) **(Jpn)**
[Effect of sisomicin on intestinal microflora and colonization resistance in rats and their offspring] Anufrieva RG, et al. **Antibiot Khimioter** 1989 Aug;34(8):596-601 (Eng. Abstr.) **(Rus)**
[Effect of storage conditions on population variability and activity of Streptomyces recifensis var. lyticus] Babenko IuS, et al. **Antibiot Khimioter** 1989 Aug;34(8):563-6 (Eng. Abstr.) **(Rus)**
[Gnotobiotic studies to determine the colonization resistance of the intestines] Gorskaia EM. **Antibiot Khimioter** 1989 Aug;34(8):601-6 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

A medium for the detection of yeasts using a conductimetric method. Connolly P, et al. **Int J Food Microbiol** 1988 Aug; 7(1):31-40

METHODS

Evaluation of the Autoanalysis Colilert test for detection and enumeration of total coliforms. Covert TC, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2443-7
Validation of flow cytometry for rapid enumeration of bacterial concentrations in pure cultures. Pinder AC, et al. **J Appl Bacteriol** 1990 Jul;69(1):92-100
Suggested mechanism by which a film of agar gel purifies and concentrates rotavirus from a faecal suspension before electron microscopy [letter] Coiro JR, et al. **J Diarrhoeal Dis Res** 1989 Sep-Dec;7(3-4):95

STANDARDS

Standardization of yeast inocula with an electronic impedance counter. Eng C, et al. **J Clin Microbiol** 1989 Oct;27(10):2397-9

VETERINARY

[Determination of virus concentration using a minicomputer] Smola T, et al. **Arch Exp Veterinarmed** 1990;44(2):311-7 (Eng. Abstr.) **(Ger)**

COLONY-FORMING UNITS see STEM CELLS

COLONY-FORMING UNITS ASSAY

T-cell colony formation in healthy homosexual men without anti-human immunodeficiency virus antibody. Wakabayashi Y, et al. **Acta Haematol (Basel)** 1989; 82(4):187-92
Evidence that multiple myeloma may be regulated by homeostatic control mechanisms: correlation of changes in the number of clonogenic myeloma cells in vitro with clinical response. Maitland JA, et al. **Br J Cancer** 1990 Mar;61(3):429-33
Ganglioside composition of human melanoma and response to antitumor treatment. Kono K, et al. **Cancer Invest** 1990; 8(2):161-7
In vitro assessment of the effects of granulocyte-macrophage colony-stimulating factor on primary human tumors and derived lines. Foulke RS, et al. **Cancer Res** 1990 Oct 1; 50(19):6264-7 (20 ref.)
In vitro purging of human rhabdomyosarcoma cells using 4-hydroperoxycyclophosphamide. Ozkaynak MF, et al. **Cancer Res** 1990 Mar 1;50(5):1455-8
Selective killing of malignant cells from leukemic patients by alkyl-lysophospholipid. Verdonck LF, et al. **Cancer Res** 1990 Jul 1;50(13):4020-5
Rapid in vitro bromodeoxyuridine labeling method for monitoring of therapy response in solid human tumors. Hemmer J. **Cytometry** 1990;11(5):603-9
Chemoprotection by 9-aminoacridine derivatives against the cytotoxicity of topoisomerase II-directed drugs. Finlay GJ, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1695-701
Chemosensitivity and DNA content as prognostic factors in

ovarian cancer: preliminary results. Prosperi Porta R, et al. **Eur J Gynaecol Oncol** 1990;11(2):91–6
Ovarian cancer: relationship between in vitro chemosensitivity and clinical response. Carenza L, et al. **Gynaecol Oncol** 1990 Jan;36(1):13–8
Effects of Toxocara canis infection on hemopoietic stem cells and hemopoietic factors in mice. Higa A, et al. **Int Arch Allergy Appl Immunol** 1990;91(3):239–43
The use of clonogenic assays in assessing the response of human lung cancer cell lines to alpha and gamma interferons alone or in combination with adriamycin. Jabbar SA, et al. **Int J Cancer** 1990 Sep 15;46(3):546–51
An aid to the selection of chemotherapy regimens for oral cavity carcinomas. Early results of a study of 5-year survival based on antioncogram selection of anti-cancer drugs. Metelmann HR, et al. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):44–6
A colony assay system that detects B cell progenitors in fresh and cultured bone marrow. Dorshkind K, et al. **J Immunol Methods** 1989 Sep 29;123(1):93–101
Modification of the clonogenic assay for the detection of lymphokine activated killer cell activity. Scuderi P, et al. **J Immunol Methods** 1990 Mar 27;128(1):119–26
Selection of cancer chemotherapy for a patient by an in vitro assay versus a clinician [see comments] Von Hoff DD, et al. **J Natl Cancer Inst** 1990 Jan 17;82(2):110–6 Comment in: J Natl Cancer Inst 1990 Jan 17;82(2):82–3.
Characteristics of granulocyte-macrophage colony formation in chronic myelomonocytic leukemia: a comparative study with other myelodysplastic and myeloproliferative disorders. Yeo A, et al. **Jpn J Cancer Res** 1990 Aug; 81(8):820–6
Effect of GM-CSF on circulating granulocyte-monocyte progenitors in autologous bone marrow transplantation [letter] Nemunaitis J, et al. **Lancet** 1989 Dec 9; 2(8676):1405–6
Effect of haem arginate on colony formation by haematopoietic progenitors in vitro. Partanen S, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):497–9
Correlation of in vitro chemosensitivity and clinical responses to anticancer drugs in primary adenocarcinoma of the lung. Yang SC. **Taiwan I Hsueh Hui Tsa Chih** 1990 Mar; 89(3):214–9
[Leukemic clonogenic assay and drug sensitivity test of homoharringtonine and cytarabine in acute myeloid leukemia] Ma FS, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec;28(12):737–40, 769 (Eng. Abstr.) **(Chi)**
[Testing bronchogenic carcinoma cells for sensitivity to cytostatics in vitro and in cell cultures] Zatloukal P, et al. **Sb Lek** 1990 Apr;92(4):118–22 (Eng. Abstr.) **(Cze)**
[The conditions and clinical feasibility of technics of bone marrow stem cell culture] Müller A. **Folia Haematol (Leipz)** 1989;116(5):731–43 (48 ref.) (Eng. Abstr.) **(Ger)**
[Study on chemosensitivity of colony forming cells] Morimitsu H. **Nippon Hinyokika Gakkai Zasshi** 1990 Feb; 81(2):215–20 (Eng. Abstr.) **(Jpn)**
[Clinical use of cultured clonogenic leukemia cells in vitro in acute myeloid leukemia with particular reference to drug sensitivity] Piotrowska-Wrzesień A, et al. **Acta Haematol Pol** 1989 Jul-Dec;20(2):241–8 (47 ref.) **(Pol)**
[Principles of the maximum development of the reserve potentialities of the bone marrow CFUf system following exposure to ionizing radiation] Gruzdev GP, et al. **Radiobiologiia** 1989 Sep-Oct;29(5):615–20 (Eng. Abstr.) **(Rus)**
[Study of leukemic colony-forming units (CFU-L) in non-lymphoblastic malignant hemopathies] Almeida J, et al. **Sangre (Barc)** 1989 Dec;34(6):467–70 (Eng. Abstr.) **(Spa)**

METHODS

Cell-mediated suppression of human hematopoiesis: evaluation by limiting-dilution analysis of hematopoietic progenitors. Takaue Y, et al. **Am J Hematol** 1989 Nov; 32(3):205–11
Comparison of in vitro drug sensitivity by inhibition of tritium release from [5-3H]-2'-deoxyuridine and a clonogenic assay. Aschele C, et al. **Anticancer Res** 1990 May-Jun;10(3):759–64
A serum-free culture method for myeloma progenitors in vitro: proliferative and immunophenotypic characteristics. Rhodes EG, et al. **Exp Hematol** 1990 Feb;18(2):79–83
A new serum-free culture system for leukemic colony assay. Takanashi M, et al. **Exp Hematol** 1990 Sep;18(8):868–72
A microcytofluorometric method for quantitative and qualitative evaluation of CFU-E and BFU-E colonies. Maruo N, et al. **Histochemistry** 1990;94(3):257–62
On the determination of hemopoietic stem cell proliferation. Blackett NM, et al. **Int J Cell Cloning** 1990 May;8(3):209–13
Stimulation of myeloid colony growth from peripheral blood by medium with an initially low osmolality. Tennant GB. **Int J Cell Cloning** 1990 Mar;8(2):123–9
Simple method for granulocyte-macrophage cell culture and staining in soft agar: comparison with a standard research technique. Hyde K, et al. **J Clin Pathol** 1989 Dec; 42(12):1302–8
Collagen gel cultures for detection of spared hematopoietic progenitors in Asta Z 7557 purged human marrows. Praloran V, et al. **Leukemia** 1990 Apr;4(4):282–6
Clonal growth of bladder cancer cells in a double layer soft agar assay: needles addition of multiple culture supplements. Lee K, et al. **Urol Res** 1990;18(3):197–200
[Basic study on identification of CFU-E colonies using porphyrin fluorescence] Maruo N, et al. **Rinsho Byori** 1989 Jun;37(6):727–30 **(Jpn)**

STANDARDS

Reduced variation in the clonogenic assay obtained by standardization of the cell culture conditions prior to drug testing on human small cell lung cancer cell lines. Jensen PB, et al. **Invest New Drugs** 1989 Nov;7(4):307–15

COLONY-FORMING UNITS ASSAY, MICROBIAL see **COLONY COUNT, MICROBIAL**

COLONY-FORMING UNITS, ERYTHROID see **ERYTHROID PROGENITOR CELLS**

COLONY-FORMING UNITS, HEMATOPOIETIC see **HEMATOPOIETIC STEM CELLS**

COLONY-FORMING UNITS, NEOPLASTIC see **TUMOR STEM CELLS**

COLONY-STIMULATING FACTOR, MAST CELL see **INTERLEUKIN-3**

COLONY-STIMULATING FACTOR, MULTIPOTENTIAL see **INTERLEUKIN-3**

COLONY-STIMULATING FACTOR 2 ALPHA see **INTERLEUKIN-3**

COLONY-STIMULATING FACTORS

Colony-stimulating factors. A panel discussion. McGuire WL, et al. **Breast Cancer Res Treat** 1989 Nov;14(2):193–200
Comparison of factors which induce differentiation of the murine myeloid leukaemic cell line M1. Gearing DP. **Hamatol Bluttransfus** 1989;32:208–13 (32 ref.)
The mononuclear phagocyte colony-stimulating factor (CSF-1, M-CSF). Rettenmier CW, et al. **Hematol Oncol Clin North Am** 1989 Sep;3(3):479–93 (103 ref.)
Hematopoietic growth factors. Vellenga E, et al. **Int J Artif Organs** 1990 Jul;13(7):407–8
Blood cell growth factors: their biology and clinical applications. Second International Capri Conference. October 8–12, 1989. Proceedings. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:1–400
Molecular modeling of human granulocyte-macrophage colony-stimulating factor. Kaushansky K, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:26–33; discussion 33–4
O-linked sugar chain of human granulocyte colony-stimulating factor protects it against polymerization and denaturation allowing it to retain its biological activity. Oh-eda M, et al. **J Biol Chem** 1990 Jul 15;265(20):11432–5
Crystallization and preliminary x-ray investigation of recombinant human granulocyte-macrophage colony-stimulating factor. Reichert P, et al. **J Biol Chem** 1990 Jan 5;265(1):452–3
Crystallization and preliminary diffraction studies of recombinant human granulocyte-stimulating factor (KW2228). Nagahara Y, et al. **J Mol Biol** 1990 Jul 5; 214(1):25–6
Macrophage growth and stimulating factor, M-CSF. Ralph P, et al. **Prog Clin Biol Res** 1990;338:43–63 (94 ref.)
[Advances in research on colony-stimulating factors] Shi YK, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Sep; 69(9):536–8 (21 ref.) **(Chi)**
[T-lymphocyte colony enhancing factor] Barda-Saad M, et al. **Harefuah** 1990 Jan 15;118(2):92–5 (21 ref.) **(Heb)**
[Hematopoietic growth factors and their clinical application] Estrov Z, et al. **Harefuah** 1990 Jan 15;118(2):111–7 (58 ref.) **(Heb)**

ADMINISTRATION & DOSAGE

AIDS file. GM-CSF may boost WBC counts [news] Conover AC. **Am J Nurs** 1990 Apr;90(4):29
Improved survival and leukocyte reconstitution without detrimental effects on engraftment in murine recipients of human recombinant granulocyte colony-stimulating factor after transplantation of T-cell-depleted histoincompatible bone marrow. Blazar BR, et al. **Blood** 1989 Nov 1; 74(6):2264–9
Tumor necrosis factor-alpha strongly potentiates interleukin-3 and granulocyte-macrophage colony-stimulating factor-induced proliferation of human CD34+ hematopoietic progenitor cells. Caux C, et al. **Blood** 1990 Jun 15;75(12):2292–8
Recombinant human interleukin-3 expands the pool of circulating hematopoietic progenitor cells in primates--synergism with recombinant human granulocyte/macrophage colony-stimulating factor. Geissler K, et al. **Blood** 1990 Jun 15;75(12):2305–10
GM-CSF in combination with cytotoxic chemotherapy in AML patients. Bettelheim P, et al. **Bone Marrow Transplant** 1990 Jul;6 Suppl 1:127–30
Recombinant human GM-CSF following chemotherapy in high-risk AML. Buechner T, et al. **Bone Marrow Transplant** 1990 Jul;6 Suppl 1:131–4
Low-dose Ara-C plus granulocyte/macrophage colony-stimulating factor for the treatment of myelodysplastic syndromes. EORTC Leukemia Group. Gerhartz HH, et al. **Bone Marrow Transplant** 1989 Dec; 4 Suppl 3:36–7
Phase I study of intravenously administered bacterially synthesized granulocyte-macrophage colony-stimulating factor and comparison with subcutaneous administration. Lieschke GJ, et al. **Cancer Res** 1990 Feb 1;50(3):606–14
Effects of long-term in vivo treatment of mice with purified murine recombinant GM-CSF. Pojda Z, et al. **Exp Hematol** 1989 Dec;17(11):1100–4
Escalated therapy for refractory urothelial tumors: methotrexate-vinblastine-doxorubicin-cisplatin plus unglycosylated recombinant human granulocyte-macrophage colony-stimulating factor. Logothetis CJ, et al. **J Natl Cancer Inst** 1990 Apr 18; 82(8):667–72
GM-CSF and ganciclovir for cytomegalovirus infection after autologous bone-marrow transplantation [letter] Fouillard L, et al. **Lancet** 1989 Nov 25;2(8674):1273
GM-CSF: intravenous versus subcutaneous treatment. Aglietta M, et al. **Leukemia** 1990 Jul;4(7):523
Recombinant human granulocyte-macrophage colony-stimulating factor and low-dose cytosine-arabinoside in the treatment of patients with myelodysplastic syndromes. A phase II study. Höffken K, et al. **Onkologie** 1990 Feb;13(1):33–7

ADVERSE EFFECTS

Necrotizing vasculitis at granulocyte-macrophage-colony-stimulating factor injection sites [letter] Farmer KL, et al. **Arch Dermatol** 1990 Sep;126(9):1243–4
Characterization of the clinical effects after the first dose of bacterially synthesized recombinant human granulocyte-macrophage colony-stimulating factor. Lieschke GJ, et al. **Blood** 1989 Dec;74(8):2634–43
Failure to immortalise human AML cells using human recombinant GMCSF in vitro and in vivo. Clutterbuck R, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 4:40–1
Transient cyclic neutropenia following GM-CSF in a patient with chronic granulocytic leukemia transplanted with HLA-identical T cell-depleted donor bone marrow. Gluckman E, et al. **Bone Marrow Transplant** 1989 Sep; 4(5):591–2
Leucocytoclastic vasculitis during GM-CSF therapy. Kluin-Nelemans JC, et al. **Br J Haematol** 1989 Nov; 73(3):419–20
Disease states induced by hemopoietic growth factor excess: their implications in medicine. Metcalf D. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:374–87; discussion 387–90 (45 ref.)
Splenic hematopoiesis following GM-CSF therapy in a patient with hairy cell leukemia [letter] Lindemann A, et al. **Leukemia** 1990 Aug;4(8):606–7
Perforation of an unsuspected cecal granulocytic sarcoma during therapy with granulocyte-macrophage colony-stimulating factor [letter] Evans C, et al. **N Engl J Med** 1990 Feb 1;322(5):337–8

ANALYSIS

Synergistic activity for high-proliferative-potential colony-forming cell (HPP-CFC) development, stable to trypsin digestion, present in pregnant mouse uterus and placenta extract. Zangheri EO, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):315–23
Colony-stimulating factor in middle ear cholesteatoma. Huang T, et al. **Am J Otolaryngol** 1989 Nov-Dec; 10(6):393–8
Ovarian adenocarcinomas express fms-complementary transcripts and fms antigen, often with coexpression of CSF-1. Kacinski BM, et al. **Am J Pathol** 1990 Jul; 137(1):135–47
Measurement of human granulocyte-macrophage colony-stimulating factor (GM-CSF) by enzyme-linked immunosorbent assay. Omori F, et al. **Biotherapy** 1989; 1(3):161–7
Quantitative in vivo assay of human granulocyte colony-stimulating factor using cyclophosphamide-induced neutropenic mice. Hattori K, et al. **Blood** 1990 Mar 15;75(6):1228–33
Tissue sources of murine megakaryocyte potentiator: biochemical and immunological studies. Banu N, et al. **Br J Haematol** 1990 Jul;75(3):313–8
Granulocyte-macrophage colony-stimulating factor in psoriasis. Takematsu H, et al. **Dermatologica** 1990; 181(1):16–20
Structural characterization of natural and recombinant human granulocyte colony-stimulating factors. Kubota N, et al. **J Biochem (Tokyo)** 1990 Mar;107(3):486–92
Analysis of thymic stromal cell subpopulations grown in vitro on extracellular matrix in defined medium. II. Cytokine activities in murine thymic epithelial and mesenchymal cell culture supernatants. Eshel I, et al. **J Immunol** 1990 Mar 1;144(5):1563–70
A sandwich enzyme-linked immunoadsorbent assay for detection of murine macrophage colony-stimulating factor (CSF-1). Lokeshwar BL, et al. **J Immunol Methods** 1989 Sep 29;123(1):123–9

Production of polyclonal and monoclonal antibodies to human granulocyte colony-stimulating factor (GCSF) and development of immunoassays. Wadhwa M, et al. **J Immunol Methods** 1990 Apr 17;128(2):211-7

Colony stimulating factor occurs in both inflammatory and noninflammatory synovial fluids. Smith JB, et al. **Rheumatol Int** 1990;10(3):131-4

BIOSYNTHESIS

T lymphocyte-derived colony-stimulating factors. Kelso A, et al. **Adv Immunol** 1990;48:69-105 (206 ref.)

Rat mesangial cells produce granulocyte-macrophage colony-stimulating factor. Budde K, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):F1065-78

Rat tracheal epithelial cells produce granulocyte/macrophage colony-stimulating factor. Smith SM, et al. **Am J Respir Cell Mol Biol** 1990 Jan;2(1):59-68

Stimulation of macrophages by muroctasin to produce colony-stimulating factors. Akahane K, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):179-83

Production of granulocyte/macrophage colony-stimulating factor by cultured astrocytes. Ohno K, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):719-24

Interleukin-1 alpha also induces granulocyte-macrophage colony-stimulating factor in immature normal bone marrow cells. Bot FJ, et al. **Blood** 1990 Jul 15;76(2):307-11

Interleukin-1 synergizes with granulocyte-macrophage colony-stimulating factor on granulocytic colony formation by intermediate production of granulocyte colony-stimulating factor. Schaafsma MR, et al. **Blood** 1989 Nov 15;74(7):2398-404

Interleukin-6 is not involved in the interleukin-1-induced production of colony-stimulating factors by human bone marrow stromal cells and fibroblasts. Schaafsma MR, et al. **Blood** 1989 Dec;74(8):2619-23

Lactoferrin decreases monocyte-induced fibroblast production of myeloid colony-stimulating activity by suppressing monocyte release of interleukin-1. Zucali JR, et al. **Blood** 1989 Oct;74(5):1531-6

Production of granulopoiesis-stimulating and -inhibiting activities by T cells associated with malignant cells in lymphomas. Piccinni MP, et al. **Br J Haematol** 1990 Apr; 74(4):432-8

Effects of cytokines on human thymic epithelial cells in culture. II. Recombinant IL 1 stimulates thymic epithelial cells to produce IL6 and GM-CSF. Galy AH, et al. **Cell Immunol** 1990 Aug;129(1):161-75

Placental CSF-like activity. Meagher R, et al. **Exp Hematol** 1990 Jun;18(5):448-51

Dissecting the hematopoietic microenvironment. VII. The production of an autostimulatory factor as well as a CSF by unstimulated murine marrow fibroblasts. Yan ZJ, et al. **Exp Hematol** 1990 May;18(4):348-54

The role of protein kinase C in interleukin 1 and tumor necrosis factor alpha induction of fibroblasts to produce and release granulocyte-macrophage colony-stimulating activity. Zucali JR, et al. **Exp Hematol** 1990 Sep; 18(8):888-92

GM-CSF expression is preferential to multi-CSF (IL-3) expression in murine T lymphocyte clones. Gough NM, et al. **Growth Factors** 1989;1(4):287-98

Differential inhibition by cyclosporin A reveals two pathways for activation of lymphokine synthesis in T cells. Kelso A, et al. **Growth Factors** 1989;1(2):165-77

Relationship between colony-stimulating activity and interferon production during infection. Egan P, et al. **Immunology** 1990 Jun;70(2):191-6

The regulatory effects of macrophages on colony stimulating factor-1 (CSF-1) production. Wu J, et al. **Int J Biochem** 1990;22(5):513-7

Regulation of haematopoietic stem cell proliferation by stimulatory factors produced by murine fetal and adult liver. Dawood KA, et al. **J Anat** 1990 Feb;168:209-16

Impairment of macrophage colony-stimulating factor production and lack of resident bone marrow macrophages in the osteopetrotic op/op mouse. Felix R, et al. **J Bone Miner Res** 1990 Jul;5(7):781-9

The colony-stimulating factor 1 (CSF-1) receptor (c-fms proto-oncogene product) and its ligand. Rettenmier CW, et al. **J Cell Sci Suppl** 1988;9:27-44 (89 ref.)

Post-transcriptional regulation of granulocyte-macrophage colony-stimulating factor synthesis in murine T cells. Bickel M, et al. **J Immunol** 1990 Aug 1;145(3):840-5

Muramyl dipeptide induces production of hemopoietic growth factors in vivo by a mechanism independent of tumor necrosis factor. Broudy VC, et al. **J Immunol** 1990 May 15;144(10):3789-94

Macrophage colony-stimulating factor production by murine and human keratinocytes. Enhancement by bacterial lipopolysaccharide. Chodakewitz JA, et al. **J Immunol** 1990 Mar 15;144(6):2190-6

Anti-proliferative effect of IFN-gamma in immune regulation. IV. Murine CTL clones produce IL-3 and GM-CSF, the activity of which is masked by the inhibitory action of secreted IFN-gamma. Gajewski TF, et al. **J Immunol** 1990 Jan 15;144(2):548-56

Control of granulocyte-macrophage colony-stimulating factor production in normal endothelial cells by positive and negative regulatory elements. Kaushansky K. **J Immunol** 1989 Oct 15;143(8):2525-9

Production of hemopoietic colony-stimulating factors by astrocytes. Malipiero UV, et al. **J Immunol** 1990 May 15; 144(10):3816-21

Mouse mesangial cells produce colony-stimulating factor-1 (CSF-1) and express the CSF-1 receptor. Mori T, et al. **J Immunol** 1990 Jun 15;144(12):4697-702

Monokine modulation of human astroglial cell production of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor. I. Effects of IL-1 alpha and IL-beta. Tweardy DJ, et al. **J Immunol** 1990 Mar 15;144(6):2233-41

Differential expression of M-CSF, G-CSF, and GM-CSF by human monocytes. Lee MT, et al. **J Leukoc Biol** 1990 Mar;47(3):275-82

Medulloblastoma cells constitutively produce granulocyte colony-stimulating factor. Pietsch T, et al. **Klin Padiatr** 1990 Jul-Aug;202(4):235-9

Role for cyclic AMP in the postreceptor control of cytokine-stimulated stromal cell growth factor production. Derigs HG, et al. **Leukemia** 1990 Jul;4(7):471-9

Inducible production of macrophage colony-stimulating factor (CSF-1) by malignant and normal human T cells. Praloran V, et al. **Leukemia** 1990 Jun;4(6):411-4

Response of murine cell lines to an IL-1/IL-2-induced factor in a rat/mouse T hybridoma (PC60): differential induction of cytokines by human IL-1 alpha and IL-1 beta and partial amino acid sequence of rat GM-CSF. Vandenabeele P, et al. **Lymphokine Res** 1990 Fall;9(3):381-9

Stimulation of human T cell colony growth by a lymphocyte colony enhancement factor derived from lymphocyte subpopulations. Lenz R, et al. **Nat Immun Cell Growth Regul** 1990;9(3):228-36

Control of hematopoietic growth factors. Akashi M, et al. **Prog Clin Biol Res** 1990;352:257-67 (25 ref.)

Interleukin-1 stimulation stabilizes GM-CSF mRNA in human vascular endothelial cells: preliminary studies on the role of the 3' AU rich motif. Bagby GC, et al. **Prog Clin Biol Res** 1990;352:233-9

Human granulocyte-macrophage colony-stimulating factor (GM-CSF): regulation of expression. Gasson JC, et al. **Prog Clin Biol Res** 1990;338:27-41 (27 ref.)

Cellular interaction regulating the production of colony-stimulating factors. Griffin JD, et al. **Prog Clin Biol Res** 1990;338:129-41 (49 ref.)

Phorbol esters, lipopolysaccharides and colony stimulating factor production. Pluznik DH, et al. **Prog Clin Biol Res** 1990;352:205-13 (32 ref.)

Tumor necrosis factor, macrophage colony-stimulating factor, and interleukin 1 production within sponge matrix allografts. Ford HR, et al. **Transplantation** 1990 Sep; 50(3):460-6

Alterations in T cell-derived colony-stimulating factors associated with GVH-induced immune deficiency. Hakim FT, et al. **Transplantation** 1990 Apr;49(4):773-81

Deficient T cell granulocyte-macrophage colony stimulating factor production in allogeneic bone marrow transplant recipients. Thomas S, et al. **Transplantation** 1990 Apr; 49(4):703-8

[A correlation between the abilities of tumor cells to produce GM-CSF and form metastasis] Kumagai K, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3367-73 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Granulocyte colony stimulating factor (G-CSF) production of human decidual cells obtained from early stage of pregnancy] Kawabata M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Apr;42(4):361-2 **(Jpn)**

BLOOD

Comparative studies of erythroid growth factors. Juaristi JA, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(2):133-44

The consequences of excess levels of haemopoietic growth factors. Metcalf D. **Br J Haematol** 1990 May;75(1):1-3 (18 ref.)

Myelopoietic reconstitution following autologous bone marrow transplantation. Henke M, et al. **Hamatol Bluttransfus** 1990;33:702-6

Induction of serum colony-stimulating activity (CSA) following dimethylnitrosamine (DMN) exposure: effects on macrophage differentiation. Myers MJ, et al. **Immunopharmacology** 1989 Sep-Oct;18(2):125-34

High levels of granulocyte and granulocyte-macrophage colony-stimulating factors in cord blood of normal full-term neonates. Laver J, et al. **J Pediatr** 1990 Apr; 116(4):627-32

Presence of an activity indispensable for the granulocyte/macrophage colony-stimulating activity of interleukin 3 in bovine serum albumin. Sugimoto K, et al. **Leuk Res** 1990;14(2):139-44

Increase in colony stimulating factor (CSF) in serum and augmentation of CSF responsiveness of lymphoid mononuclear cells by acute Trypanosoma cruzi infection in mice. Takasu N, et al. **Tohoku J Exp Med** 1990 Jan; 160(1):67-79

[Plasma colony-stimulating factor analysis and the clinical significance] Motoyoshi K. **Nippon Rinsho** 1990 Feb;48 Suppl:130-3 **(Jpn)**

CEREBROSPINAL FLUID

Macrophage-derived cytokines in the cerebrospinal fluid of HIV-1-infected patients. Gallo P, et al. **Acta Neurol (Napoli)** 1990 Feb;12(1):62-5

CLASSIFICATION

Colony-stimulating factors. Pimentel E. **Ann Clin Lab Sci** 1990 Jan-Feb;20(1):36-55 (153 ref.)

DIAGNOSTIC USE

G-CSF for chromosome analysis of myeloid leukemias and MDS [letter] Tsuchiya H, et al. **Cancer Genet Cytogenet** 1990 Jul 15;47(2):277-9

Phagocytosis of tumor cells by human monocytes cultured in recombinant macrophage colony-stimulating factor. Munn DH, et al. **J Exp Med** 1990 Jul 1;172(1):231-7

GENETICS

Structure of the granulocyte macrophage colony-stimulating factor gene in patients with the myelodysplastic syndromes. Boultwood J, et al. **Am J Hematol** 1990 Jun;34(2):157-8

Expression of granulocyte-macrophage colony-stimulating factor mRNA by inflammatory cells in the sarcoid lung. Itoh A, et al. **Am J Respir Cell Mol Biol** 1990 Sep; 3(3):245-9

Deletion of carboxy-terminal residues of murine granulocyte-macrophage colony-stimulating factor results in a loss of biologic activity and altered glycosylation. LaBranche CC, et al. **Arch Biochem Biophys** 1990 Jan; 276(1):153-9

Lymphotoxin: stimulation and regulation of colony-stimulating factors in fibroblasts. Akashi M, et al. **Blood** 1989 Nov 15;74(7):2383-90

Granulocyte-macrophage colony-stimulating factor and interleukin-3 mRNAs are produced by a small fraction of blood mononuclear cells. Wimperis JZ, et al. **Blood** 1989 Oct;74(5):1525-30

Constitutive and induced expression of growth factors in normal and chronic phase chronic myelogenous leukemia Ph1 bone marrow stroma. Wetzler M, et al. **Cancer Res** 1990 Sep 15;50(18):5801-5

In vivo transformation of factor-dependent hemopoietic cells: role of intracisternal A-particle transposition for growth factor gene activation. Dührsen U, et al. **EMBO J** 1990 Apr;9(4):1087-96

Activated but not resting T cells or thymocytes express colony-stimulating factor 1 mRNA without co-expressing c-fms mRNA. Cerdan C, et al. **Eur J Immunol** 1990 Feb; 20(2):331-5

Macrophage products IL-1 alpha, TNF alpha and bFGF may mediate multiple cytopathic effects in the developing eyes of GM-CSF transgenic mice. Cuthbertson RA, et al. **Exp Eye Res** 1990 Sep;51(3):335-44

Translation of poly(A)+ mRNA encoding CFU-S proliferation stimulator of human fetal liver origin in Xenopus laevis oocytes. Wei QS, et al. **Exp Hematol** 1989 Nov;17(10):1044-6

Expression of human granulocyte-macrophage colony-stimulating factor gene in insect cells by a baculovirus vector. Chiou CJ, et al. **FEBS Lett** 1990 Jan 1;259(2):249-53

Localization of the murine macrophage colony-stimulating factor gene to chromosome 3 using interspecific backcross analysis. Buchberg AM, et al. **Genomics** 1989 Aug; 5(2):363-7

Fine-structure mapping of the murine IL-3 and GM-CSF genes by pulsed-field gel electrophoreais and molecular cloning. Lee JS, et al. **Genomics** 1989 Aug;5(2):359-62

Close localization of the genes for GM-CSF and IL3 in human genome. Frolova EI, et al. **Hamatol Bluttransfus** 1989;32:390-2

Isolation of revertants from a factor-independent myeloid cell line. Kawai M, et al. **Hamatol Bluttransfus** 1989; 32:206-7

Aberrant expression of the multi-CSF gene in hematopoietic precursor and stem cell lines initiates leukemogenic progression. Laker C, et al. **Hamatol Bluttransfus** 1989; 32:188-96

Multiple elements in the promoter of granulocyte colony-stimulating factor gene regulate its constitutive expression in human carcinoma cells. Nishizawa M, et al. **J Biol Chem** 1990 Apr 5;265(10):5897-902

Recombinant retrovirus-mediated gene transfer to normal haemopoietic cells. Johnson GR. **J Cell Sci Suppl** 1988; 10:131-44

Transcriptional and posttranscriptional regulation of macrophage-specific colony stimulating factor gene expression by tumor necrosis factor. Involvement of arachidonic acid metabolites [published erratum appears in J Clin Invest 1990 Apr;85(4):following 1338] Sherman ML, et al. **J Clin Invest** 1990 Feb;85(2):442-7

Synthesis of granulocyte colony-stimulating factor and its requirement for terminal divisions in chronic myelogenous leukemia. Klein H, et al. **J Exp Med** 1990 May 1; 171(5):1785-90

Gene-expression and release of macrophage-colony stimulating factor in quiescent and proliferating fibroblasts. Effects of serum, fibroblast growth-promoting factors, and IL-1. Falkenburg JH, et al. **J Immunol** 1990 Jun 15; 144(12):4657-62

Expression of a novel 3.5-kb macrophage colony-stimulating factor transcript in human myeloma cells. Nakamura M, et al. **J Immunol** 1989 Dec 1;143(11):3543-7

Expression of macrophage colony-stimulating factor gene in the mouse brain during development. Théry C, et al. **J Neurosci Res** 1990 May;26(1):129-33

M-CSF and M-CSF-receptor gene expression in acute myelomonocytic leukemias. Parwaresch MR, et al. **Leuk Res** 1990;14(1):27-37

Mechanisms of growth factor expression in acute myeloid leukemia (AML). Fiedler W, et al. **Leukemia** 1990 Jul; 4(7):459-61

Regulation of the genes for interleukin-6 and granulocyte-macrophage colony stimulating factor by different inducers of differentiation in myeloid leukemic cells. Shabo Y, et al. **Leukemia** 1989 Dec;3(12):859-65

Lack of involvement of the G-CSF gene by chromosomal translocation t(15;17) in acute promyelocytic leukemia. Tanaka S, et al. **Leukemia** 1990 Jul;4(7):494-6

trans activation of granulocyte-macrophage colony-stimulating factor and the interleukin-2 receptor in transgenic mice carrying the human T-lymphotropic virus type 1 tax gene. Green JE, et al. **Mol Cell Biol** 1989 Nov;9(11):4731-7

Effect of myogenic and adipogenic differentiation on expression of colony-stimulating factor genes. Harrington MA, et al. **Mol Cell Biol** 1990 Sep;10(9):4948-52

Rates of mutation to growth factor autonomy and tumorigenicity differ in hematopoietic stem and precursor cells expressing the multilineage colony-stimulating factor gene. Laker C, et al. **Mol Cell Biol** 1989 Dec;9(12):5746-9

Regulatory elements responsible for inducible expression of the granulocyte colony-stimulating factor gene in macrophages. Nishizawa M, et al. **Mol Cell Biol** 1990 May; 10(5):2002-11

NF-kappa B as inducible transcriptional activator of the granulocyte-macrophage colony-stimulating factor gene. Schreck R, et al. **Mol Cell Biol** 1990 Mar;10(3):1281-6

A novel tumor necrosis factor-responsive transcription factor which recognizes a regulatory element in hemopoietic growth factor genes. Shannon MF, et al. **Mol Cell Biol** 1990 Jun;10(6):2950-9

Induction of endothelial cell expression of granulocyte and macrophage colony-stimulating factors by modified low-density lipoproteins. Rajavashisth TB, et al. **Nature** 1990 Mar 15;344(6263):254-7

The murine mutation osteopetrosis is in the coding region of the macrophage colony stimulating factor gene. Yoshida H, et al. **Nature** 1990 May 31;345(6274):442-4

A StuI polymorphism in the human granulocyte colony-stimulating factor gene. Tani K, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7544

Temporal expression and location of colony-stimulating factor 1 (CSF-1) and its receptor in the female reproductive tract are consistent with CSF-1-regulated placental development. Arceci RJ, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8818-22

Analysis of cytokine mRNA and DNA: detection and quantitation by competitive polymerase chain reaction. Gilliland G, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2725-9

T-cell nuclei contain a protein that binds upstream of the murine granulocyte-macrophage colony-stimulating factor gene. James R, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(19):7392-6

FMS mutations in myelodysplastic, leukemic, and normal subjects. Ridge SA, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1377-80

Membrane bound forms of human macrophage colony stimulating factor (M-CSF, CSF-1). Cerretti DP, et al. **Prog Clin Biol Res** 1990;352:63-70

5' region of zeta-globin and GMCSF genes share binding site for nuclear proteins. Howard OM, et al. **Trans Assoc Am Physicians** 1988;101:180-4

Cloning and expression of the cDNA for bovine granulocyte-macrophage colony-stimulating factor. Leong SR, et al. **Vet Immunol Immunopathol** 1989 Jul; 21(3-4):261-78

IMMUNOLOGY

Enhancement of monoclonal antibody dependent cell mediated cytotoxicity by IL2 and GM-CSF. Bianchi AC, et al. **Br J Haematol** 1989 Dec;73(4):468-74

The effects of recombinant granulocyte-macrophage colony-stimulating factor (GM-CSF) and interleukin-3 on the secretory capacity of human blood eosinophils. Tai PC, et al. **Clin Exp Immunol** 1990 Jun;80(3):426-34

Monoclonal antibodies that specifically inhibit GM-CSF- and IL-3-dependent growth of human monocytic leukemia cells. Taniyama T, et al. **Growth Factors** 1989;1(3):263-70

Establishment of specific monoclonal antibodies against recombinant human granulocyte colony-stimulating factor (hG-CSF) and their application for immunoperoxidase staining of paraffin-embedded sections. Shimamura K, et al. **J Histochem Cytochem** 1990 Feb;38(2):283-6

Two neutralizing monoclonal antibodies against human granulocyte-macrophage colony-stimulating factor recognize the receptor binding domain of the molecule. Brown CB, et al. **J Immunol** 1990 Mar 15;144(6):2184-9

Granulocyte-macrophage colony-stimulating factor augments human monocyte fungicidal activity for Candida albicans. Smith PD, et al. **J Infect Dis** 1990 May; 161(5):999-1005

Antibodies to GM-CSF [letter; comment] Gillis S, et al. **Lancet** 1990 May 19;335(8699):1217 Comment on: Lancet 1990 Feb 24;335(8687):434-7.

Development of antibodies to unprotected glycosylation sites on recombinant human GM-CSF [see comments] Gribben JG, et al. **Lancet** 1990 Feb 24;335(8687):434-7 Comment in: Lancet 1990 May 19;335(8699):1217.

Lymphokines: enhancement by granulocyte-macrophage and granulocyte colony-stimulating factors of neonatal myeloid kinetics and functional activation of polymorphonuclear leukocytes. Cairo MS, et al. **Rev Infect Dis** 1990 May-Jun; 12 Suppl 4:S492-7 (38 ref.)

ISOLATION & PURIFICATION

Towards large-scale purification of natural CSF-1 from human placenta tissue extracts. Martin-Thouvenin V, et al. **Biotechnol Appl Biochem** 1990 Apr;12(2):176-87

METABOLISM

Some properties of the plasma membrane receptor for granulocyte colony-stimulating factor. McGuckin CP, et al. **Biochem Soc Trans** 1990 Apr;18(2):290

Human granulocyte colony-stimulating factor: biologic activities and receptor characterization on hematopoietic cells and small cell lung cancer cell lines. Avalos BR, et al. **Blood** 1990 Feb 15;75(4):851-7

Common binding structure for granulocyte macrophage colony-stimulating factor and interleukin-3 on human acute myeloid leukemia cells and monocytes. Budel LM, et al. **Blood** 1990 Apr 1;75(7):1439-45

Granulocyte colony-stimulating factor receptors in human acute myelocytic leukemia. Budel LM, et al. **Blood** 1989 Dec;74(8):2668-73

Binding of G-CSF, GM-CSF, tumor necrosis factor-alpha, and gamma-interferon to cell surface receptors on human myeloid leukemia cells triggers rapid tyrosine and serine phosphorylation of a 75-Kd protein. Evans JP, et al. **Blood** 1990 Jan 1;75(1):88-95

Identification through chemical cross-linking of distinct granulocyte-macrophage colony-stimulating factor and interleukin-3 receptors on myeloid leukemic cells, KG-1. Gesner T, et al. **Blood** 1989 Dec;74(8):2652-6

Human granulocyte colony-stimulating factor specifically binds to murine myeloblastic NFS-60 cells and activates their guanosine triphosphate binding proteins/adenylate cyclase system. Matsuda S, et al. **Blood** 1989 Nov 15; 74(7):2343-8

Characterization of granulocyte-macrophage colony-stimulating factor receptor on the blast cells of acute myeloblastic leukemia. Onetto-Pothier N, et al. **Blood** 1990 Jan 1;75(1):59-66

Granulocyte-macrophage colony-stimulating factor binding sites and oxidative metabolism in human granulocytes. Häder M, et al. **Blut** 1989 Dec;59(6):486-92

Expression of the macrophage growth factor, CSF-1 and its receptor c-fms by a Hodgkin's disease-derived cell line and its variants. Paietta E, et al. **Cancer Res** 1990 Apr 1; 50(7):2049-55

Receptor binding of human granulocyte colony-stimulating factor to the blast cells of myeloid leukemia. Piao YF, et al. **Cancer Res** 1990 Mar 15;50(6):1671-4

Mechanism of diethyldithiocarbamate modulation of murine bone marrow toxicity. Schmalbach TK, et al. **Cancer Res** 1990 Oct 1;50(19):6218-21

The bovine papillomavirus E5 transforming protein can stimulate the transforming activity of EGF and CSF-1 receptors. Martin P, et al. **Cell** 1989 Oct 6;59(1):21-32

Expression cloning of a receptor for human granulocyte-macrophage colony-stimulating factor. Gearing DP, et al. **EMBO J** 1989 Dec 1;8(12):3667-76

Structural features of the colony-stimulating factor 1 receptor that affect its association with phosphatidylinositol 3-kinase. Shurtleff SA, et al. **EMBO J** 1990 Aug; 9(8):2415-21

In vivo and in vitro production of haemopoietic colony-stimulating activity by murine cell lines of different origin: a frequent finding. Nicoletti G, et al. **Eur J Cancer Clin Oncol** 1989 Sep;25(9):1281-6

Cellular processing of murine colony-stimulating factor (Multi-CSF, GM-CSF, G-CSF) receptors by normal hemopoietic cells and cell lines. Nicola NA, et al. **Growth Factors** 1988;1(1):41-9

Specific binding of human interleukin-3 and granulocyte-macrophage colony-stimulating factor to human basophils. Lopez AF, et al. **J Allergy Clin Immunol** 1990 Jan;85(1 Pt 1):99-102

Differentiation-associated expression of two functionally distinct classes of granulocyte-macrophage colony-stimulating factor receptors by human myeloid cells. Cannistra SA, et al. **J Biol Chem** 1990 Jul 25; 265(21):12656-63

Granulocyte-macrophage colony stimulating factor from human lymphocytes. The effect of glycosylation on receptor binding and biological activity. Cebon J, et al. **J Biol Chem** 1990 Mar 15;265(8):4483-91

Purification and characterization of the receptor for murine granulocyte colony-stimulating factor. Fukunaga R, et al. **J Biol Chem** 1990 Aug 15;265(23):14008-15

Bone marrow myelopoiesis in rats after 10%, 20%, or 30% thermal injury. Gruber DF, et al. **J Burn Care Rehabil** 1989 Sep-Oct;10(5):410-7

Modulation of colony-stimulating factor-1 receptors on macrophages by tumor necrosis factor. Shieh JH, et al. **J Immunol** 1989 Oct 15;143(8):2534-9

Proliferation, macrophage colony-stimulating factor, and macrophage colony-stimulating factor-receptor expression of alveolar macrophages in active sarcoidosis. Kreipe H, et al. **Lab Invest** 1990 Jun;62(6):697-703

Characterization and molecular features of the cell surface receptor for human granulocyte-macrophage colony-stimulating factor. Chiba S, et al. **Leukemia** 1990 Jan;4(1):29-36

IL-3 inhibits the binding of GM-CSF to AML blasts, but the two cytokines act synergistically in supporting blast proliferation. Onetto-Pothier N, et al. **Leukemia** 1990 May; 4(5):329-36

Induction of the granulocyte-macrophage colony-stimulating factor (CSF) receptor by granulocyte CSF increases the differentiative options of a murine hematopoietic progenitor cell. Kreider BL, et al. **Mol Cell Biol** 1990 Sep;10(9):4846-53

Ligand-induced phosphorylation of the colony-stimulating factor 1 receptor can occur through an intermolecular reaction that triggers receptor down modulation. Ohtsuka M, et al. **Mol Cell Biol** 1990 Apr;10(4):1664-71

Regulation of surface expression of the granulocyte/macrophage colony-stimulating factor receptor in normal human myeloid cells. Cannistra SA, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):93-7

Mechanism of kinase activation in the receptor for colony-stimulating factor 1. Lee AW, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7270-4

Low-affinity placenta-derived receptors for human granulocyte-macrophage colony-stimulating factor can deliver a proliferative signal to murine hemopoietic cells. Metcalf D, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4670-4

Identification and characterization of receptors for granulocyte colony-stimulating factor on human placenta and trophoblastic cells. Uzumaki H, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9323-6

Total absence of colony-stimulating factor 1 in the macrophage-deficient osteopetrotic (op/op) mouse. Wiktor-Jedrzejczak W, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4828-32

Characterization of hematopoietic growth factor receptors. Park LS, et al. **Prog Clin Biol Res** 1990;352:189-96 (7 ref.)

Overview of myeloid growth factors. Golde DW. **Semin Hematol** 1990 Jul;27(3 Suppl 3):1-7 (42 ref.)

Factors contributing to the decrease in concanavalin A-induced colony-stimulating factors in acute suppressive graft-versus-host disorder. Hakim FT, et al. **Transplantation** 1990 Apr;49(4):781-7

[Effect of humoral factors produced by lymphocytes on hematopoietic progenitor cells--productive ability of colony stimulating activities and interferon-gamma by blood mononuclear cells in patients with aplastic anemia] Kawano Y. **Rinsho Ketsueki** 1990 May;31(5):655-9 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Pharmacokinetics and pharmacodynamics of recombinant human granulocyte-colony stimulating factor after intravenous and subcutaneous administration in the rat. Tanaka H, et al. **J Pharmacol Exp Ther** 1989 Dec; 251(3):1199-203

PHARMACOLOGY

Enhancement of human neutrophil leukotriene synthesis by human granulocyte-macrophage colony-stimulating factor. McColl SR, et al. **Agents Actions** 1989 Jun; 27(3-4):465-8

Granulocyte-macrophage colony-stimulating factor (GM-CSF) and opsonization synergistically enhance leukotriene B4 (LTB4) synthesis induced by phagocytosis in human neutrophils. Poubelle PE, et al. **Agents Actions** 1989 Jun;27(3-4):388-90

Effects of histamine, granulocyte colony-stimulating factor and db-cAMP on the differentiation of HL-60 cells. Tasaka K, et al. **Agents Actions** 1990 Apr;30(1-2):240-2

Lack of effect of colony-stimulating factors, interleukins, interferons, and tumor necrosis factor on the growth and differentiation of cultured Reed-Sternberg cells. Comparison with effects of phorbol ester and retinoic acid. Hsu SM, et al. **Am J Pathol** 1990 Jan;136(1):181-9

Hematologic effects of recombinant murine granulocyte-macrophage colony-stimulating factor on the peripheral blood and bone marrow. Ulich TR, et al. **Am J Pathol** 1990 Aug;137(2):369-76

Colony-stimulating factor induction of protooncogene expression in rat alveolar macrophages. Schaberg T, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):L144-50

Bovine recombinant granulocyte-macrophage colony-stimulating factor enhancement of bovine neutrophil functions in vitro. Reddy PG, et al. **Am J Vet Res** 1990 Sep;51(9):1395-9

Identification of an alveolar macrophage-derived activity in bronchial asthma that enhances leukotriene C4 generation by human eosinophils stimulated by ionophore A23187 as a granulocyte-macrophage colony-stimulating factor. Howell CJ, et al. **Am Rev Respir Dis** 1989 Nov; 140(5):1340-7

Regulation of protein kinases and gene expression by immunocytokines. Farrar WL, et al. **Ann N Y Acad Sci** 1990;594:240-52

Plasma cholesterol-lowering activity of monocyte colony-stimulating factor (M-CSF). Shimano H, et al.

Ann N Y Acad Sci 1990;587:362–70
The effects of cytosine arabinoside and GM–CSF in leukemic cells in vitro. Gao XZ, et al. **Anticancer Res** 1989 Jul–Aug; 9(4):1053–5
Proliferative responses of peripheral blood mononuclear cells from psoriatic patients to T lymphocyte–stimulating cytokines (IL–2, IL–3, IL–4, and granulocyte–macrophage colony–stimulating factor) and OK–432. Aiba S, et al. **Arch Dermatol Res** 1989;281(5):310–5
MB–02 cells undergo fetal to adult globin gene switching in response to erythropoietin. Perrine SP, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):857–62
Changes in the expression of elastase and cathepsin B with differentiation of U937 promonocytes by GMCSF. Ward CJ, et al. **Biochem Biophys Res Commun** 1990 Mar 16; 167(2):659–64
Studies on the mechanism of platelet–activating factor production in GM–CSF primed neutrophils: involvement of protein synthesis and phospholipase A2 activation. Wirthmueller U, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):556–62
Stimulation and priming of human neutrophils by granulocyte colony–stimulating factor and granulocyte–macrophage colony–stimulating factor: qualitative and quantitative differences. Yuo A, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):491–7
Synergistic activation of 2–deoxy–D–glucose uptake in rat and murine peritoneal macrophages by human macrophage colony–stimulating factor–stimulated coupling between transport and hexokinase activity and phorbol–dependent stimulation of pentose phosphate–shunt activity. Rist RJ, et al. **Biochem J** 1990 Jan 1;265(1):243–9
Granulocyte–macrophage colony–stimulating factor can stimulate macrophage proliferation via persistent activation of Na+/H+ antiport. Evidence for two distinct roles for Na+/H+ antiport activation. Vallance SJ, et al. **Biochem J** 1990 Jan 15;265(2):359–64
Granulocyte– and granulocyte–macrophage colony–stimulating factors enhance neutrophil cytotoxicity toward HIV–infected cells. Baldwin GC, et al. **Blood** 1989 Oct;74(5):1673–7
Enhanced resistance of bone marrow transplanted mice to bacterial infection induced by recombinant granulocyte–macrophage colony–stimulating factor. Bleiberg I, et al. **Blood** 1990 Mar 15;75(6):1262–6
Enhanced stimulation of human bone marrow macrophage colony formation in vitro by recombinant human macrophage colony–stimulating factor in agarose medium and at low oxygen tension. Broxmeyer HE, et al. **Blood** 1990 Jul 15;76(2):323–9
Recombinant tumor necrosis factor enhances the proliferative responsiveness of murine peripheral macrophages to macrophage colony–stimulating factor but inhibits their proliferative responsiveness to granulocyte–macrophage colony–stimulating factor. Chen BD, et al. **Blood** 1990 Apr 15;75(8):1627–32
Effects of recombinant human granulocyte colony–stimulating factor (CSF), human granulocyte macrophage–CSF, and gibbon interleukin–3 on hematopoiesis in human long–term bone marrow culture. Coutinho LH, et al. **Blood** 1990 Jun 1;75(11):2118–29
Recombinant human interleukin–3 and granulocyte–macrophage colony–stimulating factor show common biological effects and binding characteristics on human monocytes. Elliott MJ, et al. **Blood** 1989 Nov 15; 74(7):2349–59
Interleukin–6 and granulocyte–macrophage colony–stimulating factor are candidate growth factors for chronic myelomonocytic leukemia cells. Everson MP, et al. **Blood** 1989 Oct;74(5):1472–6
Granulocyte–macrophage colony–stimulating factor reactivates fetal hemoglobin synthesis in erythroblast clones from normal adults. Gabbianelli M, et al. **Blood** 1989 Dec; 74(8):2657–67
Effect of zidovudine and granulocyte–macrophage colony–stimulating factor on human immunodeficiency virus replication in alveolar macrophages. Hammer SM, et al. **Blood** 1990 Mar 15;75(6):1215–9
A comparison of treatment of canine cyclic hematopoiesis with recombinant human granulocyte–macrophage colony–stimulating factor (GM–CSF), G–CSF interleukin–3, and canine G–CSF. Hammond WP, et al. **Blood** 1990 Aug 1;76(3):523–32
Activation of lymphocytes induced by recombinant human granulocyte–macrophage colony–stimulating factor in patients with malignant lymphoma. Ho AD, et al. **Blood** 1990 Jan 1;75(1):203–12
Effect of recombinant granulocyte–macrophage colony–stimulating factor on murine thrombocytopoiesis in vitro and in vivo. Ishibashi T, et al. **Blood** 1990 Apr 1;75(7):1433–8
Human colony–stimulating factor 1 (CSF–1) receptor confers CSF–1 responsiveness to interleukin–3–dependent 32DC13 mouse myeloid cells and abrogates differentiation in response to granulocyte CSF. Kato J, et al. **Blood** 1990 May 1;75(9):1780–7
Isoquinolinesulfonamide protein kinase inhibitors H7 and H8 enhance the effects of granulocyte–macrophage colony–stimulating factor (GM–CSE) on neutrophil function and inhibit GM–CSF receptor internalization. Khwaja A, et al. **Blood** 1990 Sep 1;76(5):996–1003
Abnormal responses of myeloid progenitor cells to recombinant human colony–stimulating factors in congenital neutropenia. Kobayashi M, et al. **Blood** 1990 Jun 1;75(11):2143–9
Hematologic effects of recombinant human granulocyte colony–stimulating factor in patients with malignancy. Lindemann A, et al. **Blood** 1989 Dec;74(8):2644–51
Human serum megakaryocyte colony–stimulating activity appears to be distinct from interleukin–3, granulocyte–macrophage colony–stimulating factor, and lymphocyte–conditioned medium. Mazur EM, et al. **Blood** 1990 Jul 15;76(2):290–7
Influence of recombinant hematopoietins and of fetal bovine serum on the globin synthetic pattern of human BFUe. Migliaccio AR, et al. **Blood** 1990 Sep 15;76(6):1150–7
Recombinant human granulocyte colony–stimulating factor increases circulating burst forming unit–erythron and red blood cell production in patients with severe human immunodeficiency virus infection. Miles SA, et al. **Blood** 1990 Jun 1;75(11):2137–42
A comparison of hematopoiesis in normal and splenectomized mice treated with granulocyte colony–stimulating factor. Molineux G, et al. **Blood** 1990 Feb 1;75(3):563–9
Effects of parenteral recombinant human macrophage colony–stimulating factor on monocyte number, phenotype, and antitumor cytotoxicity in nonhuman primates. Munn DH, et al. **Blood** 1990 May 15; 75(10):2042–8
In vitro and in vivo hematopoietic effect of mutant human granulocyte colony–stimulating factor. Okabe M, et al. **Blood** 1990 May 1;75(9):1788–93
Modulation of spontaneous outgrowth of Epstein–Barr virus immortalized B–cell clones by granulocyte–macrophage colony–stimulating factor and interleukin–3. Paul CC, et al. **Blood** 1990 Jan 1;75(1):54–8
Recombinant human granulocyte colony–stimulating factor accelerates hematopoietic recovery after DLA–identical littermate marrow transplants in dogs. Schuening FG, et al. **Blood** 1990 Aug 1;76(3):636–40
Granulocyte colony–stimulating factor stimulates human mature neutrophilic granulocytes to produce interferon–alpha. Shirafuji N, et al. **Blood** 1990 Jan 1; 75(1):17–9
Effects of recombinant human G–CSF, GM–CSF, IL–3, and IL–1 alpha on the growth of purified human peripheral blood progenitors. Takaue Y, et al. **Blood** 1990 Jul 15; 76(2):330–5
Effects of recombinant human granulocyte colony–stimulating factor on the hematologic recovery and survival of irradiated mice. Tanikawa S, et al. **Blood** 1990 Aug 1;76(3):445–9
In vivo radioprotective effects of recombinant human granulocyte colony–stimulating factor in lethally irradiated mice. Uckun FM, et al. **Blood** 1990 Feb 1;75(3):638–45
Acute and subacute hematologic effects of multi–colony stimulating factor in combination with granulocyte colony–stimulating factor in vivo. Ulich TR, et al. **Blood** 1990 Jan 1;75(1):48–53
In vivo hematologic effects of recombinant human macrophage colony–stimulating factor. Ulich TR, et al. **Blood** 1990 Feb 15;75(4):846–50
Divergent effects of interleukin–4 (IL–4) on the granulocyte colony–stimulating factor and IL–3–supported myeloid colony formation from normal and leukemic bone marrow cells. Vellenga E, et al. **Blood** 1990 Feb 1;75(3):633–7
Recombinant human granulocyte colony–stimulating factor as an activator of human granulocytes: potentiation of responses triggered by receptor–mediated agonists and stimulation of C3bi receptor expression and adherence. Yuo A, et al. **Blood** 1989 Nov 1;74(6):2144–9
Recombinant human colony stimulating factor–granulocyte/macrophage and –granulocyte, but not macrophage induce the development of a respiratory burst in primary human myeloid leukemic cells in vitro. Geissler K, et al. **Blut** 1989 Sep;59(3):226–30
Karyotype and in vitro–response to GM–CSF. Analysis of bone marrow cultures in leukemia, myelodysplasia and aplastic anemia. Haase D, et al. **Blut** 1990 Mar;60(3):192–7
Effects of various recombinant human hemopoietic growth factors (rhEpo, rhG–CSF, rhGM–CSF, rhIl–3) on the growth of peripheral blood progenitor cells (BFU–E, CFU–GM). Serke S, et al. **Blut** 1990 Jul;61(1):25–9
The use of recombinant cytokines for enhancing immunohematopoietic reconstitution following bone marrow transplantation. II. The influence of lymphokines on CFU–GM colonies from human untreated, ASTA–Z or Campath–1M treated bone marrow. Mumcuoglu M, et al. **Bone Marrow Transplant** 1990 Mar;5(3):153–8
The use of recombinant cytokines for enhancing immunohematopoietic reconstitution following bone marrow transplantation. I. Effects of in vitro culturing with IL–3 and GM–CSF on human and mouse bone marrow cells purged with mafosfamide (ASTA–Z). Slavin S, et al. **Bone Marrow Transplant** 1989 Sep;4(5):459–64
In vivo priming of human normal neutrophils by granulocyte–macrophage colony stimulating factor: effect on the production of platelet activating factor. Aglietta M, et al. **Br J Haematol** 1990 Jul;75(3):333–9
The effects of interleukin 3 (IL–3) on cells responsive to macrophage colony–stimulating factor (CSF–1) in liquid murine bone marrow culture. Breen FN, et al. **Br J Haematol** 1990 Feb;74(2):138–45
Secretion of neutrophil secondary granules occurs during granulocyte–macrophage colony stimulating factor induced margination. Devereux S, et al. **Br J Haematol** 1990 Jan; 74(1):17–23
In vitro priming of human bone marrow with recombinant GM–CSF [letter] Korthout M, et al. **Br J Haematol** 1990 Mar;74(3):376–7
Interleukin 3 alone does not support the proliferation of bone marrow cells from A/J mice: a novel system for studying the synergistic activities of IL–3. Morris CF, et al. **Br J Haematol** 1990 Feb;74(2):131–7
Myelodysplastic syndrome (MDS)–associated inhibitory activity on haemopoietic progenitor cells. Ohmori M, et al. **Br J Haematol** 1990 Feb;74(2):179–84
Pretreatment with rh–GMCSF, but not rh–IL3, enhances PAF–induced eosinophil accumulation in guinea–pig airways. Sanjar S, et al. **Br J Pharmacol** 1990 Jul; 100(3):399–400
Activation and proliferation of the isolated microglia by colony stimulating factor–1 and possible involvement of protein kinase C. Sawada M, et al. **Brain Res** 1990 Feb 12;509(1):119–24
Modulation of in vitro antitumor immunity in response to the biological activators interleukin–2, gamma interferon, and granulocyte monocyte–colony stimulating factor in the peripheral blood of cancer patients receiving cytotoxic chemotherapy. Harris JE, et al. **Bull N Y Acad Med** 1989 Jan;65(1):16–25
In vitro cytogenetic effects of recombinant human hematopoietic growth factors on cells derived from myelodysplastic syndromes. Ohyashiki K, et al. **Cancer Genet Cytogenet** 1990 Sep;48(2):169–78
Granulocyte–monocyte colony–stimulating–factor augments the interleukin–2–induced cytotoxic activity of human lymphocytes in the absence and presence of mouse or chimeric monoclonal antibodies (mAb 17–1A). Masucci G, et al. **Cancer Immunol Immunother** 1990;31(4):231–5
Stimulation of colony formation of various human carcinoma cell lines by rhGM–CSF and rhIL–3. Nachbaur D, et al. **Cancer Lett** 1990 Apr 30;50(3):197–201
In vitro assessment of the effects of granulocyte–macrophage colony–stimulating factor on primary human tumors and derived lines. Foulke RS, et al. **Cancer Res** 1990 Oct 1; 50(19):6264–7 (20 ref.)
Differences in in vitro proliferative responsiveness to granulocyte colony–stimulating factor and interleukin 2 of bone marrow cells from mice treated with chemotherapeutic drugs. Mizushima Y, et al. **Cancer Res** 1990 Mar 15;50(6):1847–52
Prevention of hematotoxic side effects of cytostatic drugs in mice by a synthetic hemoregulatory peptide. Paukovits WR, et al. **Cancer Res** 1990 Jan 15;50(2):328–32
Opposite effect of tumor necrosis factor alpha on granulocyte colony–stimulating factor and granulocyte–macrophage colony–stimulating factor–dependent growth of normal and leukemic hemopoietic progenitors. Piacibello W, et al. **Cancer Res** 1990 Aug 15;50(16):5065–71
Growth regulation of multi–factor–dependent myeloid cell lines: IL–4, TGF–beta and pertussis toxin modulate IL–3– or GM–CSF–induced growth by controlling cell cycle length. Koyasu S, et al. **Cell Struct Funct** 1989 Aug; 14(4):459–71
Responses of neutrophils to myeloid growth factors. Golde DW, et al. **Ciba Found Symp** 1990;148:62–71; discussion 71–5 (23 ref.)
Colony–stimulating factors and interferon–gamma differentially affect cell surface molecules shared by monocytes and neutrophils. Buckle AM, et al. **Clin Exp Immunol** 1990 Aug;81(2):339–45
Differential augmentation of in vivo natural killer cytotoxicity in normal primates with recombinant human interleukin–1 and granulocyte–macrophage colony–stimulating factor. Davis TA, et al. **Clin Exp Immunol** 1990 Mar;79(3):436–42
Granulocyte–macrophage colony–stimulating factor: more than a hemopoietin. Monroy RL, et al. **Clin Immunol Immunopathol** 1990 Mar;54(3):333–46 (92 ref.)
Recombinant GM–CSF in patients with poor graft function after bone marrow transplantation. Klingemann HG, et al. **Clin Invest Med** 1990 Apr;13(2):77–81
Flow cytometric analysis of recombinant murine GM–CSF (rmuGM–CSF) induced changes in the distribution of specific cell populations in vivo. Pennline KJ, et al. **Cytometry** 1990;11(2):283–91
Identification of a common signal associated with cellular proliferation stimulated by four haemopoietic growth factors in a highly enriched population of granulocyte/macrophage colony–forming cells. Cook N, et al. **EMBO J** 1989 Oct;8(10):2967–74
Phospholipase C–gamma, a substrate for PDGF receptor kinase, is not phosphorylated on tyrosine during the mitogenic response to CSF–1. Downing JR, et al. **EMBO J** 1989 Nov;8(11):3345–50
Colony–stimulating factor 1 activates protein kinase C in human monocytes. Imamura K, et al. **EMBO J** 1990 Aug; 9(8):2423–8, 2389
Effect of N–methionine–free, bacterially synthesized recombinant human granulocyte–macrophage colony–stimulating factor in a primate model. Akashi K, et al. **Eur J Haematol** 1990 Feb;44(2):100–5
Antibody to Mol abrogates the increase in neutrophil phagocytosis and degranulation induced by

granulocyte-macrophage colony-stimulating factor. Kletter Y, et al. **Eur J Haematol** 1989 Nov;43(5):389–96

Interleukin 1 and/or tumor necrosis factor-alpha synergize with granulocyte-macrophage colony-stimulating factor to enhance histamine synthesis in hematopoietic cells: role of prostaglandin E2. Piquet-Pellorce C, et al. **Eur J Immunol** 1989 Nov;19(11):1999–2003

Variable effect of recombinant human granulocyte-macrophage colony-stimulating factor on bone marrow fibrosis in patients with myelodysplasia. Antin JH, et al. **Exp Hematol** 1990 May;18(4):266–70

Heterogeneity of recombinant granulocyte-macrophage colony-stimulating factor-mediated enhancement of neutrophil adherence to endothelium. Gamble JR, et al. **Exp Hematol** 1990 Sep;18(8):897–902

Successful autologous transplantation of blood stem cells mobilized with recombinant human granulocyte-macrophage colony-stimulating factor. Haas R, et al. **Exp Hematol** 1990 Feb;18(2):94–8

Human granulocyte colony formation in serum-free cultures stimulated with purified recombinant granulocyte colony-stimulating factor. Ieki R, et al. **Exp Hematol** 1990 Sep;18(8):883–7

Antagonistic effects of interleukin 6 and G-CSF in the later stage of human granulopoiesis in vitro. Katayama K, et al. **Exp Hematol** 1990 Jun;18(5):390–4

In vitro and in vivo activity of human recombinant granulocyte-macrophage colony-stimulating factor in dogs. Mayer P, et al. **Exp Hematol** 1990 Oct;18(9):1026–33

Evidence that G-CSF is a fibroblast growth factor that induces granulocytes to increase phagocytosis and to present a mature morphology, and that macrophages secrete 45-kd molecules with these activities as well as with G-CSF-like activity. Mendoza JF, et al. **Exp Hematol** 1990 Sep;18(8):903–10

Indomethacin augments granulocyte-macrophage colony-stimulating factor-induced hematopoiesis following 5-FU treatment. O'Reilly M, et al. **Exp Hematol** 1990 Oct; 18(9):974–8

Survival enhancement and hemopoietic regeneration following radiation exposure: therapeutic approach using glucan and granulocyte colony-stimulating factor. Patchen ML, et al. **Exp Hematol** 1990 Oct;18(9):1042–8

Hemopoietic effects of short-term in vivo treatment of mice with various doses of rhG-CSF. Pojda Z, et al. **Exp Hematol** 1990 Jan;18(1):27–31

Modulation of tartrate-resistant acid phosphatase expression by calcitriol in CSF-induced macrophage colonies. Povolny B, et al. **Exp Hematol** 1990 May;18(4):283–8

A new serum-free culture system for leukemic colony assay. Takanashi M, et al. **Exp Hematol** 1990 Sep;18(8):868–72

Granulocyte-macrophage colony-stimulating factor suppresses induction of neutrophil alkaline phosphatase synthesis by granulocyte colony-stimulating factor. Teshima T, et al. **Exp Hematol** 1990 May;18(4):316–21

Hematopoiesis in limiting dilution cultures: influence of cytokines on human hematopoietic progenitor cells. Ventura GJ, et al. **Exp Hematol** 1990 Sep;18(8):878–82

Stimulation of immune-suppressive bone marrow cells by colony-stimulating factors. Young MR, et al. **Exp Hematol** 1990 Aug;18(7):806–11

Granulocyte-macrophage colony-stimulating factor (GM-CSF) primes the respiratory burst and stimulates protein biosynthesis in human neutrophils. Edwards SW, et al. **FEBS Lett** 1989 Oct 9;256(1-2):62–6

Granulocyte/macrophage colony-stimulating factor primes human neutrophils for increased diacylglycerol generation in response to chemoattractant. Tyagi SR, et al. **FEBS Lett** 1989 Oct 23;257(1):188–90

Functional expression of the human receptor for colony-stimulating factor 1 (CSF-1) in hamster fibroblasts: CSF-1 stimulates Na+/H+ exchange and DNA-synthesis in the absence of phosphoinositide breakdown. Hartmann T, et al. **Growth Factors** 1990;2(4):289–300

Growth factor-induced phosphorylation of c-ras p21 in normal hemopoietic progenitor cells. Stanley IJ, et al. **Growth Factors** 1989;2(1):53–9

The effect of human recombinant granulocyte-macrophage colony stimulating factor on the proliferation and differentiation of myeloid progenitors in congenital agranulocytosis marrow cells. Hassan HT, et al. **Haematologia (Budap)** 1989;22(4):233–8

Role of recombinant human granulocyte-macrophage colony stimulating factor for large scale collection of peripheral blood stem cells for autologous transplantation. Ravagnani F, et al. **Haematologica** 1990 Jan-Feb;75 Suppl 1:22–5

Colony-stimulating factors (rhG-CSF, rhGM-CSF, rhIL-3, and BCGF) recruit myeloblastic and lymphoblastic leukemic cells and enhance the cytotoxic effects of cytosine-arabinoside. Andreeff M, et al. **Hamatol Bluttransfus** 1990;33:747–62

In vitro growth kinetics of myeloid progenitor cells of myelodysplastic patients in response to granulocyte-macrophage colony-stimulating factor and interleukin-3. Schipperus MR, et al. **Hamatol Bluttransfus** 1990;33:98–102

In vitro effects of G-CSF, GM-CSF, and IL-3 on leukemic cells of children with acute nonlymphoblastic leukemia. Schrader C, et al. **Hamatol Bluttransfus** 1990;33:95–7

Effects of hemopoietic growth factors on stem cells in vitro. Ogawa M. **Hematol Oncol Clin North Am** 1989 Sep; 3(3):453–64 (87 ref.)

Differential effect of continuous versus cyclic maintenance chemotherapy on cytokine-induced myeloid colony growth. Ridgway D, et al. **Hematol Pathol** 1990;4(2):87–92

Murine recombinant GM-CSF-driven rat bone marrow cell differentiation and factors suppressing cell proliferation. Wiltschke C, et al. **Immunobiology** 1989 Jun; 179(2-3):145–58

Granulocyte-macrophage colony-stimulating factor restricts growth of tubercle bacilli in human macrophages. Denis M, et al. **Immunol Lett** 1990 Jun;24(3):203–6

CSF-1 induces resorption of embryos in mice. Tartakovsky B. **Immunol Lett** 1989 Nov;23(1):65–9

Properties of lymph-borne (veiled) dendritic cells in culture. I. Modulation of phenotype, survival and function: partial dependence on GM-CSF. MacPherson GG. **Immunology** 1989 Sep;68(1):102–7

Properties of lymph-borne (veiled) dendritic cells in culture. II. Expression of the IL-2 receptor: role of GM-CSF. MacPherson GG, et al. **Immunology** 1989 Sep;68(1):108–13

Granulocyte-macrophage colony-stimulating factor and interleukin-3 induce surface expression of interleukin-2 receptor p55-chain and CD4 by human eosinophils. Riedel D, et al. **Immunology** 1990 Jun;70(2):258–61

Inhibition of chemotactic migration of human neutrophilic granulocytes by recombinant human granulocyte-macrophage colony-stimulating factor. Kownatzki E, et al. **Immunopharmacology** 1990 Mar-Apr; 19(2):139–43

Recombinant granulocyte colony-stimulating factor and lipopolysaccharide maintain the phenotype of and superoxide anion generation by neutrophils. Ichinose Y, et al. **Infect Immun** 1990 Jun;58(6):1647–52

Recombinant human granulocyte-macrophage colony-stimulating factor induces granule exocytosis from human polymorphonuclear neutrophils. Smith RJ, et al. **Inflammation** 1990 Feb;14(1):83–92

Enhanced suppression of human myeloid leukemic cell lines by combinations of IL-6, LIF, GM-CSF and G-CSF. Maekawa T, et al. **Int J Cancer** 1990 Feb 15;45(2):353–8

Response of leukemic cells to the sequential combination of GM-CSF and G-CSF. Inoue C, et al. **Int J Cell Cloning** 1990 Jan;8(1):54–62

CSF in vivo: effects on hematopoiesis. Souza L. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:227; discussion 227–8

Stimulation of the Na+/H+ exchanger in human endothelial cells activated by granulocyte- and granulocyte-macrophage-colony-stimulating factor. Evidence for a role in proliferation and migration. Bussolino F, et al. **J Biol Chem** 1989 Nov 5;264(31):18284–7

Thrombin binds to murine bone marrow-derived macrophages and enhances colony-stimulating factor-1-driven mitogenesis. Clohisy DR, et al. **J Biol Chem** 1990 May 15;265(14):7729–32

Monocyte colony-stimulating factor enhances uptake and degradation of acetylated low density lipoproteins and cholesterol esterification in human monocyte-derived macrophages. Ishibashi S, et al. **J Biol Chem** 1990 Aug 25;265(24):14109–17

Prostaglandin E2 inhibition of growth in a colony-stimulating factor 1-dependent macrophage cell line. Jackowski S, et al. **J Biol Chem** 1990 Apr 25; 265(12):6611–6

Human monocyte colony-stimulating factor enhances the clearance of lipoproteins containing apolipoprotein B-100 via both low density lipoprotein receptor-dependent and -independent pathways in rabbits. Shimano H, et al. **J Biol Chem** 1990 Aug 5;265(22):12869–75

Inhibition of the signaling pathways for macrophage proliferation by cyclic AMP. Lack of effect on early responses to colony stimulating factor-1. Vairo G, et al. **J Biol Chem** 1990 Feb 15;265(5):2692–701

Modulation of human alveolar macrophage tumoricidal activity by recombinant macrophage colony-stimulating factor. Thomassen MJ, et al. **J Biol Response Mod** 1990 Feb;9(1):87–91

Induction of tumor necrosis factor by macrophage colony-stimulating factor in vivo. Zhu D, et al. **J Biol Response Mod** 1990 Jun;9(3):339–42

Role of Na+/H+ exchange in the granulocyte-macrophage colony-stimulating factor-dependent growth of a leukemic cell line. Caracciolo D, et al. **J Cell Physiol** 1990 Apr; 143(1):133–9

Effects of interleukin 3 and of granulocyte-macrophage and macrophage colony stimulating factors on osteoclast differentiation from mouse hemopoietic tissue. Hattersley G, et al. **J Cell Physiol** 1990 Jan;142(1):201–9

Colony stimulating factor-1 is a negative regulator of the macrophage respiratory burst. Phillips WA, et al. **J Cell Physiol** 1990 Aug;144(2):190–6

Macrophage-colony-stimulating factor (CSF-1) modulates a differentiation-specific inward-rectifying potassium current in human leukemic (HL-60) cells. Wieland SJ, et al. **J Cell Physiol** 1990 Mar;142(3):643–51

Colony-stimulating factor-1 induces rapid behavioural responses in the mouse macrophage cell line, BAC1.2F5. Boocock CA, et al. **J Cell Sci** 1989 Jul;93 (Pt 3):447–56

Cytokine-dependent long-term culture of highly enriched precursors of hematopoietic progenitor cells from human bone marrow. Brandt J, et al. **J Clin Invest** 1990 Sep; 86(3):932–41

Long-term exposure to retrovirally expressed granulocyte-colony-stimulating factor induces a nonneoplastic granulocytic and progenitor cell hyperplasia without tissue damage in mice. Chang JM, et al. **J Clin Invest** 1989 Nov;84(5):1488–96

Granulocyte-macrophage colony-stimulating factor promotes differentiation and survival of human peripheral blood dendritic cells in vitro. Markowicz S, et al. **J Clin Invest** 1990 Mar;85(3):955–61

Involvement of a phospholipase D in the mechanism of action of granulocyte-macrophage colony-stimulating factor (GM-CSF): priming of human neutrophils in vitro with GM-CSF is associated with accumulation of phosphatidic acid and diradylglycerol. Bourgoin S, et al. **J Exp Med** 1990 Sep 1;172(3):767–77

Tumor necrosis factor alpha maintains the viability of murine epidermal Langerhans cells in culture, but in contrast to granulocyte/macrophage colony-stimulating factor, without inducing their functional maturation. Koch F, et al. **J Exp Med** 1990 Jan 1;171(1):159–71

Macrophage colony-stimulating factor (rM-CSF) stimulates pinocytosis in bone marrow-derived macrophages. Racoosin EL, et al. **J Exp Med** 1989 Nov 1;170(5):1635–48

Regulation of MHC class II gene expression in macrophages by hematopoietic colony-stimulating factors (CSF). Induction by granulocyte/macrophage CSF and inhibition by CSF-1. Willman CL, et al. **J Exp Med** 1989 Nov 1; 170(5):1559–67

Recombinant granulocyte-macrophage colony-stimulating factor increases adenylate cyclase activity in murine peritoneal macrophages. Coleman DL, et al. **J Immunol** 1989 Dec 15;143(12):4134–40

IL-3 and granulocyte-macrophage colony-stimulating factor stimulate two distinct phases of adhesion in human monocytes. Elliott MJ, et al. **J Immunol** 1990 Jul 1; 145(1):167–76

Regulatory effect of cytokines on eosinophil degranulation. Fujisawa T, et al. **J Immunol** 1990 Jan 15;144(2):642–6

IL-4 and granulocyte-macrophage colony-stimulating factor selectively increase HLA-DR and HLA-DP antigens but not HLA-DQ antigens on human monocytes. Gerrard TL, et al. **J Immunol** 1990 Jun 15;144(12):4670–4

Granulocyte-macrophage colony-stimulating factor and other cytokines regulate surface expression of the leukocyte adhesion molecule-1 on human neutrophils, monocytes, and their precursors. Griffin JD, et al. **J Immunol** 1990 Jul 15;145(2):576–84

Human granulocyte-macrophage colony-stimulating factor plus phorbol myristate acetate stimulate a promyelocytic cell line to produce an IL-1 inhibitor. Mazzei GJ, et al. **J Immunol** 1990 Jul 15;145(2):585–91

Bradykinin sensitization of colony-stimulating factor-1-responsive murine marrow progenitors to prostaglandin E. A property of the amino-terminal tetrapeptide fragment. Moore RN, et al. **J Immunol** 1990 Jan 15;144(2):667–70

Induction of immediate early response genes by macrophage colony-stimulating factor in normal human monocytes. Mufson RA. **J Immunol** 1990 Oct 1;145(7):2333–9

Differentiation of the IL-3-dependent NFS-60 cell line and adaption to growth in macrophage colony-stimulating factor. Nakoinz I, et al. **J Immunol** 1990 Aug 1;145(3):860–4

Recombinant granulocyte-macrophage colony-stimulating factor restores deficient immune responses in mice with chronic Trypanosoma cruzi infections. Reed SG, et al. **J Immunol** 1990 Sep 1;145(5):1564–70

Eosinophils and immune mechanisms. VI. The synergistic combination of granulocyte-macrophage colony-stimulating factor and IL-5 accounts for eosinophil-stimulation promoter activity in Schistosoma mansoni-infected mice. Secor WE, et al. **J Immunol** 1990 Feb 15;144(4):1484–9

Granulocyte-macrophage colony-stimulating factor stimulates human monocyte accessory cell function. Smith PD, et al. **J Immunol** 1990 May 15;144(10):3829–34

Granulocyte-macrophage colony-stimulating factor enhances cationic antimicrobial protein synthesis by human neutrophils. Waksman Y, et al. **J Immunol** 1990 May 1; 144(9):3437–43

Comparison of the effects of IL-3, granulocyte-macrophage colony-stimulating factor, and macrophage colony-stimulating factor in supporting monocyte differentiation in culture. Analysis of macrophage antibody-dependent cellular cytotoxicity. Young DA, et al. **J Immunol** 1990 Jul 15;145(2):607–15

Comparative studies on lipid and colony-stimulating factor-induced macrophage growth. Yui S, et al. **J Immunol** 1990 Feb 15;144(4):1461–5

Granulocyte-macrophage and macrophage colony-stimulating factors activate intramacrophage killing of Leishmania mexicana amazonensis. Ho JL, et al. **J Infect Dis** 1990 Jul;162(1):224–30

Granulocyte macrophage—colony-stimulating factor (GM-CSF) decreases CD1a expression by human Langerhans cells and increases proliferation in the mixed epidermal cell-lymphocyte reaction (MELR). Kolenik S, et al. **J Invest Dermatol** 1990 Sep;95(3):359–62

Recombinant granulocyte-macrophage colony-stimulating factor activates human macrophages to inhibit growth or kill Mycobacterium avium complex. Bermudez LE, et al. **J Leukoc Biol** 1990 Jul;48(1):67–73

Differential production of IFN-alpha/beta by CSF-1- and GM-CSF-derived macrophages. Falk LA, et al. **J Leukoc Biol** 1990 Jul;48(1):43–9

Heterogeneity in responses of human blood monocytes to granulocyte–macrophage colony-stimulating factor. Inamura N, et al. **J Leukoc Biol** 1990 Jun;47(6):528–34

Fc gamma RII–mediated superoxide production by phagocytes is augmented by GM–CSF without a change in Fc gamma RII expression. Roberts PJ, et al. **J Leukoc Biol** 1990 Sep;48(3):247–57

Hematologic effects of interleukin–1 beta, granulocyte colony-stimulating factor, and granulocyte–macrophage colony–stimulating factor in tumor–bearing mice treated with fluorouracil. Moore MA, et al. **J Natl Cancer Inst** 1990 Jun 20;82(12):1031–7

Granulocyte–colony stimulating factor and retinoic acid cooperatively induce granulocyte differentiation of acute promyelocytic leukemia cells in vitro. Nakamaki T, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1077–82

Granulocyte colony–stimulating factor–dependent growth of an acute myeloblastic leukemia cell line. Nara N, et al. **Jpn J Cancer Res** 1990 Jun–Jul;81(6–7):625–31

Binding properties and proliferative effects of human recombinant granulocyte–macrophage colony–stimulating factor in primary leukemia and lymphoma. Piao YF, et al. **Jpn J Cancer Res** 1989 Sep;80(9):887–94

Killing of alveolar macrophages and of monocytes that have responded to granulocyte–macrophage colony–stimulating factor by human lymphokine–activated killer cells. Sone S, et al. **Jpn J Cancer Res** 1989 Jul;80(7):662–9

Enhancement of the antibody–dependent tumoricidal activity of human monocytes by human monocytic colony–stimulating factor. Suzu S, et al. **Jpn J Cancer Res** 1990 Jan;81(1):79–84

Effect of human macrophage colony–stimulating factor on granulopoiesis and survival in bone–marrow–transplanted mice. Yanai N, et al. **Jpn J Cancer Res** 1990 Apr; 81(4):355–62

Granulocyte colony–stimulating factor and neutrophil recovery after high–dose chemotherapy and autologous bone marrow transplantation. Sheridan WP, et al. **Lancet** 1989 Oct 14;2(8668):891–5

A monoclonal antibody that inhibits the action of GM–CSF on normal but not leukaemic progenitors. Ashman LK, et al. **Leuk Res** 1990;14(7):637–44

Clonal growth of haemopoietic progenitor cells from myelodysplastic marrow in response to recombinant haemopoietins. Baines P, et al. **Leuk Res** 1990;14(3):247–53

In vitro growth response to G–CSF and GM–CSF by bone marrow cells of patients with acute myeloid leukemia. Jinnai I. **Leuk Res** 1990;14(3):227–40

Usefulness of neutral red uptake method for investigation of the effects of recombinant hemopoietic growth factors on leukemic blasts proliferation. Misago M, et al. **Leuk Res** 1990;14(6):559–65

Susceptibility of acute myeloid leukemia (AML) cells from clinically resistant and sensitive patients to daunomycin (DNR): assessment in vitro after stimulation with colony stimulating factors (CSFs). Santini V, et al. **Leuk Res** 1990; 14(4):377–80

Induction of differentiation in HL–60 cells by retinoic acid and lymphocyte–derived differentiation–inducing factor but not by recombinant G–CSF and GM–CSF. Wang SY, et al. **Leuk Res** 1989;13(12):1091–7

Synergistic effects between GM–CSF and G–CSF or M–CSF on highly enriched human marrow progenitor cells. Bot FJ, et al. **Leukemia** 1990 May;4(5):325–8

Hemopoietin–1 activity of interleukin–1 (IL–1) on acute myeloid leukemia colony–forming cells (AML–CFU) in vitro: IL–1 induces production of tumor necrosis factor–alpha which synergizes with IL–3 or granulocyte–macrophage colony–stimulating factor. Delwel R, et al. **Leukemia** 1990 Aug;4(8):557–60

Dissociation of the proliferation and differentiation stimuli of granulocyte colony–stimulating factor (G–CSF). Irvine AE, et al. **Leukemia** 1990 Mar;4(3):203–9

Effects of rhGM–CSF on intracellular ara–C pharmacology in vitro in acute myelocytic leukemia: comparability with drug–induced humoral stimulatory activity. Karp JE, et al. **Leukemia** 1990 Aug;4(8):553–6

Effects of recombinant human granulocyte colony stimulating factor and granulocyte–monocyte colony stimulating factor on in vitro hemopoiesis in the myelodysplastic syndromes. Nagler A, et al. **Leukemia** 1990 Mar;4(3):193–202

Modulation of colony stimulating factor–(CSF) dependent growth of acute myeloid leukemia by tumor necrosis factor. Salem M, et al. **Leukemia** 1990 Jan;4(1):37–43

The effects of interleukin–3, GM–CSF, and G–CSF on the growth kinetics of colony–forming cells in myelodysplastic syndromes. Schipperus M, et al. **Leukemia** 1990 Apr; 4(4):267–72

Effects of recombinant human granulocyte colony stimulating factor (rG–CSF) on murine myeloid leukemia: stimulation of proliferation of leukemic cells in vitro and inhibition of development of leukemia in vivo. Tamura M, et al. **Leukemia** 1989 Dec;3(12):853–8

Human recombinant macrophage colony stimulating factor activates murine Kupffer cells to a cytotoxic state. Curley SA, et al. **Lymphokine Res** 1990 Fall;9(3):355–63

Potentiating effect of granulocyte–macrophage colony–stimulating factor on interleukin–1–induced thymocyte proliferation: evidence for an interleukin–2 and tumor necrosis factor–independent pathway. Herbelin A, et al. **Lymphokine Res** 1990 Summer;9(2):155–65

Induction of the granulocyte–macrophage colony–stimulating factor (CSF) receptor by granulocyte CSF increases the differentiative options of a murine hematopoietic progenitor cell. Kreider BL, et al. **Mol Cell Biol** 1990 Sep;10(9):4846–53

Induction of macrophage colony–stimulating factor–dependent growth and differentiation after introduction of the murine c–fms gene into FDC–P1 cells. Rohrschneider LR, et al. **Mol Cell Biol** 1989 Nov; 9(11):5081–92

Macrophage colony–stimulating factor–induced tyrosine phosphorylation of c–fms proteins expressed in FDC–P1 and BALB/c 3T3 cells. Tapley P, et al. **Mol Cell Biol** 1990 Jun;10(6):2528–38

Identification of tyrosine 706 in the kinase insert as the major colony–stimulating factor 1 (CSF–1)–stimulated autophosphorylation site in the CSF–1 receptor in a murine macrophage cell line. van der Geer P, et al. **Mol Cell Biol** 1990 Jun;10(6):2991–3002

Haemopoietic colony stimulating factors promote cell survival by suppressing apoptosis. Williams GT, et al. **Nature** 1990 Jan 4;343(6253):76–9

Effects of recombinant human G–CSF and GM–CSF on primary human leukemic cells. Itoh K, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Sep;52(6):988–95

Colony stimulating factor–1 induced growth stimulation of v–fms transformed fibroblasts. Lyman SD, et al. **Oncogene** 1988 Oct;3(4):391–5

Identification of a series of differentiation–associated gene sequences from GM–CSF stimulated bone marrow. Moscinski LC, et al. **Oncogene** 1990 Jan;5(1):31–7

Stimulation of pp60c–src kinase activity in FDC–P1 cells by polyoma middle–T antigen and hematopoietic growth factors. Muser J, et al. **Oncogene** 1989 Dec;4(12):1433–9

Recombinant human granulocyte–macrophage colony–stimulating factor primes neonatal granulocytes for enhanced oxidative metabolism and chemotaxis. Cairo MS, et al. **Pediatr Res** 1989 Nov;26(5):395–9

Prophylactic or simultaneous administration of recombinant human granulocyte colony stimulating factor in the treatment of group B streptococcal sepsis in neonatal rats. Cairo MS, et al. **Pediatr Res** 1990 Jun;27(6):612–6

The induction and inhibition of differentiation in normal and leukaemic cells. Metcalf D. **Philos Trans R Soc Lond [Biol]** 1990 Mar 12; 327(1239):99–109 (42 ref.)

Interleukin 3 and granulocyte/macrophage–colony–stimulating factor render human basophils responsive to low concentrations of complement component C3a. Bischoff SC, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6813–7

Low–affinity placenta–derived receptors for human granulocyte–macrophage colony–stimulating factor can deliver a proliferative signal to murine hemopoietic cells. Metcalf D, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4670–4

Macrophage–colony–stimulating factor (CSF–1) induces proliferation, chemotaxis, and reversible monocytic differentiation in myeloid progenitor cells transfected with the human c–fms/CSF–1 receptor cDNA. Pierce JH, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5613–7

Mouse NIH 3T3 cells expressing human colony–stimulating factor 1 (CSF–1) receptors overgrow in serum–free medium containing human CSF–1 as their only growth factor. Roussel MF, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7924–7

Target cells for GM–CSF and kinetics of response. Aglietta M, et al. **Prog Clin Biol Res** 1990;352:519–30 (46 ref.)

Lymphohematopoietic factors and biological control mechanisms. Farrar WL, et al. **Prog Clin Biol Res** 1990; 352:269–76

Growth factors controlling the development of hemopoietic cells. Lee F. **Prog Clin Biol Res** 1990;352:385–90 (14 ref.)

Kinetic response of haemopoietic cell lineages to growth factors in vivo: their relationship to the microarchitecture of the tissue and its microenvironment. Lord BI. **Prog Clin Biol Res** 1990;352:391–407 (47 ref.)

Manipulation of HbF production with hematopoietic growth factors. McDonagh KT, et al. **Prog Clin Biol Res** 1989; 316B:307–15

Biological effects of recombinant human GM–CSF. Shadduck RK, et al. **Prog Clin Biol Res** 1990;352:365–74

Direct action of human granulocyte colony–stimulating factor on mature human neutrophils: flow–cytometric analysis. Kondo S, et al. **Res Commun Chem Pathol Pharmacol** 1990 Feb; 67(2):249–57

Granulocyte–macrophage colony–stimulating factor: pleiotropic cytokine with potential clinical usefulness. Ruef C, et al. **Rev Infect Dis** 1990 Jan–Feb;12(1):41–62 (248 ref.)

Effect of interleukin–4 on the growth of granulocyte–macrophage progenitor cells stimulated by hematopoietic growth factors. Sato T, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):163–74

In vitro development of bone–marrow–derived macrophages. Influence of mouse genotype on response to colony–stimulating factors and autocrine interferon induction. Kruse A, et al. **Scand J Immunol** 1989 Dec; 30(6):731–40

Effects of granulocyte–macrophage colony–stimulating factor in iatrogenic myelosuppression, bone marrow failure, and regulation of host defense. Gutterman J, et al. **Semin Hematol** 1990 Jul;27(3 Suppl 3):15–24 (28 ref.)

Combinations of purified recombinant colony–stimulating factors are required for optimal hematopoietic differentiation. Sieff CA, et al. **Trans Assoc Am Physicians** 1988;101:282–7

Granulocyte–macrophage colony–stimulating factor diminishes interferon–gamma–induced class I major histocompatibility complex antigen expression by endothelium with prostacyclin as intermediary. Leszczynski D, et al. **Transplant Proc** 1990 Feb;22(1):132

In vitro induction of swine peripheral blood monocyte proliferation by the fibroblast–derived murine hematopoietic growth factor CSF–1. Genovesi EV, et al. **Vet Immunol Immunopathol** 1989 Dec;23(3–4):223–44

Ovine haemopoiesis: the development of bone marrow–derived colony–forming cells in vitro in the presence of factors derived from lymphoid cells and helper T–cells. Haig DM, et al. **Vet Immunol Immunopathol** 1990 Jun;25(2):125–37

[The present and future of G–CSF] Solal–Celigny P. **Pathol Biol (Paris)** 1989 Nov;37(9):1014–5 **(Fre)**

[Characterization of cultivated rat bone marrow cells modified by CSF–1 with lectins. A soybean agglutinin binding 30–kDa glycoprotein as a marker of mature macrophages] Krugluger W. **Wien Klin Wochenschr** 1989 Oct 27;101(20):710–4 **(Ger)**

[GM–CSF: target cells and their response kinetics] Aglietta M, et al. **Haematologica (Pavia)** 1989 Oct;74(5 Suppl):478–88 (43 ref.) **(Ita)**

[Clonal response of murine myelomonocytic leukemia cells (WEHI–3B–Y1) to purified recombinant human hemopoietic factors in serum–free culture] Kajigaya Y, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Aug;52(5):835–41 (Eng. Abstr.) **(Jpn)**

[Effect of recombinant human granulocyte colony–stimulating factor on white blood cell count and neutrophil functions in patients with malignant lymphoma] Ashida T, et al. **Rinsho Ketsueki** 1989 Oct;30(10):1778–82 (Eng. Abstr.) **(Jpn)**

[Changes in neutrophil counts and functions after the administration of recombinant human granulocyte colony–stimulating factor in a patient with chronic idiopathic neutropenia] Sai M, et al. **Rinsho Ketsueki** 1990 Apr;31(4):484–6 (Eng. Abstr.) **(Jpn)**

[The induction of differentiation of myeloid antigen positive acute lymphoblastic leukemia by phorbol ester (TPA) or GM–CSF] Takeuchi H, et al. **Rinsho Ketsueki** 1990 May; 31(5):639–46 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Human lung fibroblast–derived granulocyte–macrophage colony stimulating factor (GM–CSF) mediates eosinophil survival in vitro [see comments] Vancheri C, et al. **Am J Respir Cell Mol Biol** 1989 Oct;1(4):289–95 Comment in: Am J Respir Cell Mol Biol 1989 Oct;1(4):267–8.

Biology and clinical aspects of the hematopoietic growth factors. Sieff CA. **Annu Rev Med** 1990;41:483–96 (83 ref.)

Haemopoietic growth factors and haematological malignancies. Testa NG, et al. **Baillieres Clin Endocrinol Metab** 1990 Mar;4(1):177–89 (63 ref.)

Haemopoietic growth factor control of normal and neoplastic cellular proliferation. Burgess AW, et al. **Biochem Soc Symp** 1989;55:57–68

Granulocyte–macrophage colony–stimulating factor is an endogenous regulator of cell proliferation in juvenile chronic myelogenous leukemia. Gualtieri RJ, et al. **Blood** 1989 Nov 15;74(7):2360–7

Establishment and characterization of a granulocyte–macrophage colony–stimulating factor–dependent human myeloid cell line. Oez S, et al. **Blood** 1990 Aug 1;76(3):578–82

The effects of rhGM–CSF on the neutrophil respiratory burst when studied in whole blood. Jaswon MS, et al. **Br J Haematol** 1990 Jun;75(2):181–7

Haemopoietic growth factors: their role in acute myeloblastic leukaemia. Testa NG, et al. **Br Med Bull** 1989 Apr; 45(2):582–9 (28 ref.)

The colony stimulating factors. Discovery, development, and clinical applications. Metcalf D. **Cancer** 1990 May 15; 65(10):2185–95 (105 ref.)

Expansion of immunoregulatory macrophages by granulocyte–macrophage colony–stimulating factor derived from a murine mammary tumor. Fu YX, et al. **Cancer Res** 1990 Jan 15;50(2):227–34

Stimulation of tumor necrosis factor release from monocytic cells by the A375 human melanoma via granulocyte–macrophage colony–stimulating factor. Sabatini M, et al. **Cancer Res** 1990 May 1;50(9):2673–8

Enhancing effect of human monocytic colony–stimulating factor on monocyte tumoricidal activity. Suzu S, et al. **Cancer Res** 1989 Nov 1;49(21):5913–7

1,25 Dihydroxyvitamin D3–dependent inhibition of growth or killing of Mycobacterium avium complex in human macrophages is mediated by TNF and GM–CSF. Bermudez LE, et al. **Cell Immunol** 1990 May;127(2):432–41

Hematopoietic growth factors and in vitro growth of human acute myeloblastic leukemia. Löwenberg B, et al. **Crit Rev Oncol Hematol** 1990;10(1):1–8 (101 ref.)

Colony–stimulating factors, cytokines and hematopoiesis. Nakayama N, et al. **Curr Opin Immunol** 1989 Oct;2(1):68–77 (46 ref.)

Cytofluorometric and cytomorphologic analysis of human bone marrow cells derived from stromal cultures stimulated by granulocyte-macrophage colony-stimulating factor, interferon-gamma and splenopentin pentapeptide. Maciejewski J, et al. **Eur J Immunol** 1990 Jun;20(6):1209-13

The biology of hematopoietic growth factors: studies in vitro under serum-deprived conditions. Migliaccio G, et al. **Exp Hematol** 1990 Oct;18(9):1049-55 (88 ref.)

Proliferation of single hemopoietic progenitor cells in the absence of colony-stimulating factors and serum. Péléraux A, et al. **Exp Hematol** 1989 Nov;17(10):1032-7

Injection of dextran sulphate enhances in mice the stimulatory influence of serum on growth of haemopoietic tissue colonies (GM-CFC) in vitro. Vacek A, et al. **Folia Biol (Praha)** 1989;35(4):261-5

Role of the colony-stimulating factor-1 receptor (c-fms) and its ligand in oncogenesis. Rettenmier CW. **Hematol Bluttransfus** 1989;32:263-7 (21 ref.)

Megakaryocyte colony-stimulating factor and thrombopoiesis. Murphy MJ Jr. **Hematol Oncol Clin North Am** 1989 Sep;3(3):465-78 (135 ref.)

Physiology of granulocyte and macrophage colony-stimulating factors in host defense. Weisbart RH, et al. **Hematol Oncol Clin North Am** 1989 Sep;3(3):401-9 (60 ref.)

Effect of granulocyte-macrophage colony stimulating factor on endothelial antigenicity. Leszczynski D, et al. **Hum Immunol** 1990 Jun;28(2):175-8

Conditioned medium from activated rat macrophages and the recombinant factors, IL-1 beta and GM-CSF, enhance the accessory activity of dendritic cells. Bowers WE, et al. **Immunobiology** 1990 Jun;180(4-5):362-84

The biology of GM-CSF: regulation of production and interaction with its receptor. Griffin JD, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:35-44; discussion 44-5 (40 ref.)

Regulation of mononuclear phagocyte proliferation by colony-stimulating factor-1. Sherr CJ. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:46-60; discussion 60-2 (109 ref.)

The role of colony-stimulating factors in acute leukemia. Herrmann F, et al. **J Cancer Res Clin Oncol** 1990; 116(3):275-82 (76 ref.)

Regulation of systemic macrophage IL-1 gene transcription: the involvement of tumor-derived macrophage growth factor, CSF-1. Evans R, et al. **J Leukoc Biol** 1989 Nov; 46(5):428-33

Biology and clinical use of GM-CSF in lung cancer. Drings P, et al. **Lung** 1990;168 Suppl:1059-68 (30 ref.)

Granulocyte-macrophage colony-stimulating factor and tetradecanoyl phorbol acetate induce a distinct, restricted subset of primary-response TIS genes in both proliferating and terminally differentiated myeloid cells. Varnum BC, et al. **Mol Cell Biol** 1989 Aug;9(8):3580-3

Hematopoietic growth factors. Biology and clinical applications. Groopman JE, et al. **N Engl J Med** 1989 Nov 23;321(21):1449-59 (184 ref.)

Haematopoietic growth factors. Fibbe WE, et al. **Neth J Med** 1989 Oct;35(3-4):151-68 (102 ref.)

Temporal expression and location of colony-stimulating factor 1 (CSF-1) and its receptor in the female reproductive tract are consistent with CSF-1-regulated placental development. Arceci RJ, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8818-22

The biology of human granulocyte-macrophage colony-stimulating factor (GM-CSF). Gasson JC, et al. **Prog Clin Biol Res** 1990;352:375-84 (17 ref.)

Human colony-stimulating factors and stromal cell function. Sieff CA, et al. **Soc Gen Physiol Ser** 1988;43:47-55 (23 ref.)

Dual function of monocytes on the regulation of granulopoiesis. Wang SY, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun;88(6):545-50

Biological activities of interleukins and colony-stimulating factors. Kitagawa S, et al. **Tokai J Exp Clin Med** 1988 Dec;13(6):307-11 (39 ref.)

The biology and clinical potential of growth factors that regulate myeloid cell production. Whetton AD. **Trends Pharmacol Sci** 1990 Jul;11(7):285-9 (36 ref.)

[Human granulocyte-macrophage colony-stimulating factors] Yao ZJ. **Sheng Li Ke Hsueh Chin Chan** 1989 Apr; 20(2):171-3 (12 ref.) (Chi)

[Epidermal cytokines, interleukins and the skin] Delaporte E, et al. **Ann Dermatol Venereol** 1989;116(6-7):511-7 (Fre)

[Studies on defence effects of recombinant human granulocyte colony-stimulating factor (G-CSF) to infections. I. Induction of neutrophil polarization by G-CSF] Hirota M, et al. **Kansenshogaku Zasshi** 1990 Apr; 64(4):425-9 (Eng. Abstr.) (Jpn)

[Studies on defense effects of recombinant human granulocyte colony-stimulating factor (G-CSF) to infections. II. Priming effect for superoxide production by human neutrophil] Kadota J, et al. **Kansenshogaku Zasshi** 1990 Apr;64(4):430-5 (Eng. Abstr.) (Jpn)

[Hemopoietic stem cells] Miura Y. **Nippon Naika Gakkai Zasshi** 1989 Dec;78(12):1721-5 (Jpn)

[Hematopoietic stem cells: stochastic differentiation and humoral control of their proliferation] Ogava M. **Gematol Transfuziol** 1990 Feb;35(2):24-30 (112 ref.) (Rus)

SECRETION

Murine T helper cell clones secrete granulocyte-macrophage colony-stimulating factor (GmCSF) by both interleukin-2-dependent and interleukin-2-independent pathways. Wong RL, et al. **Cell Immunol** 1989 Oct 15; 123(2):445-55

Release of colony-stimulating activity by resting and activated monocytes, T cells and B cells. Chen LY, et al. **Chung Hua I Hsueh Tsa Chih** 1989 May;43(5):277-84

Functional and molecular changes in colony stimulating factor secretion by osteoblasts. Horowitz MC, et al. **Connect Tissue Res** 1989;20(1-4):159-68

Establishment of a G-CSF and GM-CSF producing cell line from human large cell carcinoma of the lung [letter] Shibuya T. **Eur J Haematol** 1989 Aug;43(2):182-3

Osteotropic agents induce the differential secretion of granulocyte-macrophage colony-stimulating factor by the osteoblast cell line MC3T3-E1. Horowitz MC, et al. **J Bone Miner Res** 1989 Dec;4(6):911-21

Endogenous interleukin-1 can regulate the autonomous growth of the blast cells of acute myeloblastic leukemia by inducing autocrine secretion of GM-CSF. Bradbury D, et al. **Leukemia** 1990 Jan;4(1):44-7

THERAPEUTIC USE

GM-CSF and G-CSF in hematology and oncology. Offner FC, et al. **Acta Clin Belg** 1989;44(5):318-25 (36 ref.)

The role of recombinant hematopoietic growth factors in blood diseases. Jimenez JJ, et al. **Adv Intern Med** 1990; 35:393-414 (140 ref.)

Recurrent spleen enlargement during cyclic granulocyte-macrophage colony-stimulating factor therapy for myelodysplastic syndrome. Delmer A, et al. **Am J Hematol** 1990 May;34(1):73-4

Stimulation of myelopoiesis in chronic lymphocytic leukemia and in other lymphoproliferative disorders by recombinant human granulocyte-macrophage colony-stimulating factor. Vadhan-Raj S, et al. **Am J Hematol** 1990 Mar; 33(3):189-97

Colony-stimulating factors and tomorrow's pharmacy: why we must be ready. Yee GC. **Am J Hosp Pharm** 1989 Nov; 46(11 Suppl 2):S24-9 (23 ref.)

Effect of granulocyte-macrophage colony-stimulating factor on neutropenia and related morbidity induced by myelotoxic chemotherapy. Herrmann F, et al. **Am J Med** 1990 Jun;88(6):619-24

Successful use of granulocyte-macrophage colony-stimulating factor in patients with acute lymphocytic leukemia. Smith T, et al. **Am J Med** 1990 Sep; 89(3):384-6

Congenital neutropenia: a case study. Daghistani D, et al. **Am J Pediatr Hematol Oncol** 1990 Summer;12(2):210-4

The effect of recombinant human granulocyte-macrophage colony-stimulating factor on neutropenia and related morbidity in chronic severe neutropenia. Ganser A, et al. **Ann Intern Med** 1989 Dec 1;111(11):887-92

Candidal endocarditis and treatment with fluconazole and granulocyte-macrophage colony-stimulating factor [letter] Martino P, et al. **Ann Intern Med** 1990 Jun 15;112(12):966-7

Granulocyte-macrophage colony-stimulating factor (GM-CSF), hypocalcemia, and hypomagnesemia [letter] Potter MN, et al. **Ann Intern Med** 1990 May 1;112(9):715

Protective effect of recombinant human granulocyte colony-stimulating factor against pneumococcal infections in splenectomized mice. Hebert JC, et al. **Arch Surg** 1990 Aug;125(8):1075-8

Hematopoietic growth factors in the treatment of patients with HIV infection. Mitsuyasu RT. **Biotherapy** 1990; 2(2):173-81 (44 ref.)

High-dose melphalan and granulocyte-macrophage colony-stimulating factor for refractory multiple myeloma. Barlogie B, et al. **Blood** 1990 Aug 15;76(4):677-80

Treatment of poor-prognosis, newly diagnosed acute myeloid leukemia with ara-C and recombinant human granulocyte-macrophage colony-stimulating factor. Estey EH, et al. **Blood** 1990 May 1;75(9):1766-9

A phase I/II trial of recombinant granulocyte-macrophage colony-stimulating factor for children with aplastic anemia. Guinan EC, et al. **Blood** 1990 Sep 15;76(6):1077-82

Correction of granulocytopenia in Felty's syndrome by granulocyte-macrophage colony-stimulating factor. Simultaneous induction of interleukin-6 release and flare-up of the arthritis. Hazenberg BP, et al. **Blood** 1989 Dec;74(8):2769-70

GM-CSF administration after transplantation of purged autologous marrow [letter; comment] Januszewicz EH. **Blood** 1990 Jan 1;75(1):319-20 Comment on: Blood 1989 Feb 15;73(3):849-57.

Maintenance treatment of patients with myelodysplastic syndromes using recombinant human granulocyte colony-stimulating factor. Negrin RS, et al. **Blood** 1990 Jul 1;76(1):36-43

Use of recombinant human granulocyte-macrophage colony-stimulating factor in graft failure after bone marrow transplantation. Nemunaitis J, et al. **Blood** 1990 Jul 1; 76(1):245-53

In vivo activation of human neutrophil functions by administration of recombinant human granulocyte colony-stimulating factor in patients with malignant lymphoma. Ohsaka A, et al. **Blood** 1989 Dec;74(8):2743-8

Subcutaneous recombinant granulocyte-macrophage colony-stimulating factor used as a single agent and in an alternating regimen with azidothymidine in leukopenic patients with severe human immunodeficiency virus infection. Pluda JM, et al. **Blood** 1990 Aug 1;76(3):463-72

Circulation of CD34+ hematopoietic stem cells in the peripheral blood of high-dose cyclophosphamide-treated patients: enhancement by intravenous recombinant human granulocyte-macrophage colony-stimulating factor. Siena S, et al. **Blood** 1989 Nov 1;74(6):1905-14

Serum levels of tumor necrosis factor alpha in patients treated with granulocyte-macrophage colony-stimulating factor [letter; comment] Stehle B, et al. **Blood** 1990 May 1; 75(9):1895-6 Comment on: Blood 1988 Oct;72(4):1368-74.

Stimulation of nonclonal hematopoiesis and suppression of the neoplastic clone after treatment with recombinant human granulocyte-macrophage colony-stimulating factor in a patient with therapy-related myelodysplastic syndrome. Vadhan-Raj S, et al. **Blood** 1989 Oct; 74(5):1491-8

Stimulation of myelopoiesis in a patient with congenital neutropenia: biology and nature of response to recombinant human granulocyte-macrophage colony-stimulating factor. Vadhan-Raj S, et al. **Blood** 1990 Feb 15;75(4):858-64

Differential effects of granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor in children with severe congenital neutropenia. Welte K, et al. **Blood** 1990 Mar 1;75(5):1056-63

Effects of CSFs in preleukemia. Greenberg PL, et al. **Bone Marrow Transplant** 1990 Jul;6 Suppl 1:121-6 (34 ref.)

Theoretical and practical issues concerning the use of rhGM-CSF and rhIL-3: present status. Jones TC. **Bone Marrow Transplant** 1990 Jan;5 Suppl 1:36-7

Childhood cyclic neutropenia treated with recombinant human granulocyte colony stimulating factor. Hanada T, et al. **Br J Haematol** 1990 May;75(1):135-7

Agranulocytosis associated with granular lymphocyte leukaemia: improvement of peripheral blood granulocyte count with human recombinant granulocyte colony-stimulating factor (G-CSF) [letter] Kaneko T, et al. **Br J Haematol** 1990 Jan;74(1):121-2

The impact of colony stimulating factors on cancer chemotherapy. Morstyn G. **Br J Haematol** 1990 Jul; 75(3):303-7 (52 ref.)

Effect of recombinant human granulocyte-macrophage colony stimulating factor on progenitor cells in patients with advanced malignancies. Villeval JL, et al. **Br J Haematol** 1990 Jan;74(1):36-44

Hematopoietic growth factors in cancer. Moore MA. **Cancer** 1990 Feb 1;65(3 Suppl):836-44 (49 ref.)

Biological effects and clinical applications of human colony stimulating factors. Gabrilove JL. **Cancer Chemother Biol Response Modif** 1988;10:492-506 (89 ref.)

Granulocyte colony-stimulating factor. **Cancer Invest** 1989; 7(5):525

Biology and clinical applications of human recombinant granulocyte colony-stimulating factor. Gabrilove JL. **Cancer Invest** 1990;8(2):295-7

Early clinical trials with colony-stimulating factors. Morstyn G, et al. **Cancer Invest** 1989;7(5):443-56 (66 ref.)

Therapeutic uses of macrophage colony-stimulating factor. Nadler PI. **Cancer Invest** 1990;8(2):299-300

Use of hematopoietic growth factors to control myelosuppression caused by radioimmunotherapy. Blumenthal RD, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):1003s-1007s

Growth factor-assisted chemotherapy—the Manchester experience. Crowther D, et al. **Ciba Found Symp** 1990; 148:201-10; discussion 211-4 (16 ref.)

Large-scale collection of circulating haematopoietic progenitors in cancer patients treated with high-dose cyclophosphamide and recombinant human GM-CSF. Ravagnani F, et al. **Eur J Cancer** 1990;26(5):562-4

GM-CSF expands the eosinophilic compartment in chronic idiopathic neutropenia [letter] Andersson R, et al. **Eur J Haematol** 1990 May;44(5):315-6

Use of recombinant human granulocyte-macrophage colony stimulating factor in T-lymphocytosis with granulocytopenia. Krieger G, et al. **Eur J Haematol** 1990 Mar;44(3):205-6

Effect in vivo of recombinant GM-CSF on neutropenia and survival in mice treated by high-dose melphalan. Sagi O, et al. **Eur J Haematol** 1989 Sep;43(3):240-4

Recombinant human granulocyte colony-stimulating factor in allogeneic bone marrow transplantation. Masaoka T, et al. **Exp Hematol** 1989 Nov;17(10):1047-50

Acceleration of autologous hematopoietic recovery by GM-CSF after allograft rejection [letter] Bandini G, et al. **Haematologica** 1989 Nov-Dec;74(6):627-8

High-dose cyclophosphamide in patients with operable breast cancer: recombinant human GM-CSF ameliorates drug-induced leukopenia and thrombocytopenia. Bregni M, et al. **Haematologica** 1990 Jan-Feb;75 Suppl 1:95-8

GM-CSF-exposed peripheral blood progenitors as sole source of stem cells for autologous transplantation in two patients with multiple myeloma. Pileri A, et al. **Haematologica** 1990 Jan-Feb;75 Suppl 1:79-82

Use of recombinant human granulocyte macrophage colony-stimulating factor to speed engraftment and treat graft failure following marrow transplantation in man. Appelbaum FR, et al. **Hamatol Bluttransfus** 1990;33:736-40

Recombinant human granulocyte-macrophage colony-stimulating factor after chemotherapy for acute leukemias at higher age or after relapse. Büchner T, et al. **Hamatol Bluttransfus** 1990;33:724–31

Treatment of poor-prognosis, newly diagnosed acute myelogenous leukemia with high-dose cytosine arabinoside (Ara-C) and rHUGM-CSF. Estey EH, et al. **Hamatol Bluttransfus** 1990;33:732–6

Effect of granulocyte-macrophage colony-stimulating factor on neutropenia and related morbidity induced by myelotoxic chemotherapy. Herrmann F, et al. **Hamatol Bluttransfus** 1990;33:717–23

Effect of treatment with rhGM-CSF and low-dose cytosine arabinoside on leukemic blast cells in patients with myelodysplastic syndromes. Hoelzer D, et al. **Hamatol Bluttransfus** 1990;33:763–9

Regeneration of granulopoiesis with recombinant human granulocyte-macrophage colony-stimulating factor after bone marrow transplantation. Link H, et al. **Hamatol Bluttransfus** 1990;33:741–6

Interactions between hematopoietic growth factors: the clinical role of combination biotherapy. Moore MA. **Hamatol Bluttransfus** 1989;32:11–21 (22 ref.)

Granulocyte colony-stimulating factor: preclinical and clinical studies. Gabrilove JL, et al. **Hematol Oncol Clin North Am** 1989 Sep;3(3):427–40 (65 ref.)

Clinical promise of new hematopoietic growth factors: M-CSF, IL-3, IL-6. Garnick MB, et al. **Hematol Oncol Clin North Am** 1989 Sep;3(3):495–509 (19 ref.)

Clinical role of granulocyte-macrophage colony-stimulating factor. Mitsuyasu RT, et al. **Hematol Oncol Clin North Am** 1989 Sep;3(3):411–25 (46 ref.)

Bone marrow changes in patients with refractory aplastic anemia treated by recombinant GM-CSF. Naeim F, et al. **Hematol Pathol** 1990;4(2):79–85

Alteration of the functional effects of granulocyte-macrophage colony-stimulating factor on polymorphonuclear leukocytes by membrane-fluidizing agents. Buescher ES, et al. **Infect Immun** 1990 Sep; 58(9):3002–8

Therapeutic efficacy of granulocyte colony-stimulating factor alone and in combination with antibiotics against Pseudomonas aeruginosa infections in mice. Yasuda H, et al. **Infect Immun** 1990 Aug;58(8):2502–9

Human GM-CSF in vivo: identification of the target cells and of their kinetics of response. Aglietta M, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:283–90; discussion 290–2

Clinical use of GM-CSF in autologous bone marrow transplantation. Carella AM, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:279–82 (19 ref.)

Preclinical and clinical evaluation of recombinant human macrophage colony-stimulating factor (rhM-CSF). Garnick MB, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:356–71; discussion 371–3 (40 ref.)

Effects of prolonged treatment of myelodysplastic syndromes with recombinant human granulocyte colony-stimulating factor. Greenberg P, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:293–300; discussion 300–2

Therapeutic administration of recombinant human granulocyte colony-stimulating factor accelerates hemopoietic regeneration and enhances survival in a murine model of radiation-induced myelosuppression. Patchen ML, et al. **Int J Cell Cloning** 1990 Mar;8(2):107–22

Hematopoietic growth factors: in vitro and in vivo studies in bone marrow transplantation. Rizzoli V, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:270–7; discussion 277–8 (16 ref.)

Use of granulocyte-macrophage colony-stimulating factor in patients with malignancy and bone marrow failure. Shadduck RK, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:303–12; discussion 312–3

Use of recombinant human hematopoietic growth factors and autologous bone marrow transplantation to attenuate the neutropenic trough of high-dose therapy. Spitzer G, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:249–59; discussion 259–61

Clinical studies with recombinant human granulocyte-macrophage colony-stimulating factor. Steward WP, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:335–46

Therapeutic use of recombinant human G-CSF (rhG-CSF) in a canine model of sublethal and lethal whole-body irradiation. MacVittie TJ, et al. **Int J Radiat Biol** 1990 Apr; 57(4):723–36

Effect of recombinant human granulocyte colony-stimulating factor on granulocytopenia in mice induced by irradiation. Fushiki M, et al. **Int J Radiat Oncol Biol Phys** 1990 Feb; 18(2):353–7

Hematopoietic growth factors and high-dose chemotherapy: will grams succeed where milligrams fail? [comment] Demetri GD, et al. **J Clin Oncol** 1990 May;8(5):761–4 Comment on: J Clin Oncol 1990 May;8(5):768–78.

Recombinant human granulocyte-macrophage colony-stimulating factor reduces hematologic toxicity and widens clinical applicability of high-dose cyclophosphamide treatment in breast cancer and non-Hodgkin's lymphoma [see comments] Gianni AM, et al. **J Clin Oncol** 1990 May;8(5):768–78 Comment in: J Clin Oncol 1990 May;8(5):761–4.

Granulocyte colony-stimulating factor stimulates recovery of granulocytes in patients receiving dose-intensive chemotherapy without bone marrow transplantation. Neidhart J, et al. **J Clin Oncol** 1989 Nov;7(11):1685–92

Recombinant human granulocyte colony-stimulating factor hastens granulocyte recovery after high-dose chemotherapy and autologous bone marrow transplantation in Hodgkin's disease [published erratum appears in J Clin Oncol 1990 Mar;8(3):567] Taylor KM, et al. **J Clin Oncol** 1989 Dec;7(12):1791–9

Effects of recombinant granulocyte colony-stimulating factor on Staphylococcus aureus mastitis in lactating dairy cows. Nickerson SC, et al. **J Dairy Sci** 1989 Dec;72(12):3286–94

Interleukin 3 perfusion prevents death due to acute anemia induced by monoclonal antierythrocyte autoantibody. Shibata T, et al. **J Exp Med** 1990 May 1;171(5):1809–14

GM-CSF administration augments the survival of ity-resistant A/J mice, but not ity-susceptible C57BL/6 mice, to a lethal challenge with Salmonella typhimurium. Morrissey PJ, et al. **J Immunol** 1990 Jan 15;144(2):557–61

The ability of recombinant murine granulocyte-macrophage colony-stimulating factor to protect neonatal rats from septic death due to Staphylococcus aureus. Frenck RW, et al. **J Infect Dis** 1990 Jul;162(1):109–14

Recombinant human granulocyte-macrophage colony-stimulating factor in patients with advanced malignancy: a phase Ib trial. Steis RG, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):697–703

Hematologic and cytogenetic findings in myelodysplastic syndromes treated with recombinant human granulocyte colony-stimulating factor. Ohyashiki K, et al. **Jpn J Cancer Res** 1989 Sep;80(9):848–54

Granulocyte colony-stimulating factor in allogeneic bone marrow transplantation. Kitayama H, et al. **Jpn J Clin Oncol** 1989 Dec;19(4):367–72

Differential effect of GM-CSF and G-CSF in cyclic neutropenia [letter] Freund MR, et al. **Lancet** 1990 Aug 4;336(8710):313

Effect of GM-CSF on circulating granulocyte-monocyte progenitors in autologous bone marrow transplantation [letter] Nemunaitis J, et al. **Lancet** 1989 Dec 9; 2(8676):1405–6

Treatment of neutropenia associated with dyskeratosis congenita with granulocyte-macrophage colony-stimulating factor [letter] Russo CL, et al. **Lancet** 1990 Sep 22;336(8717):751–2

Prolonged survival of mice with myeloid leukemia by subcutaneous injection of recombinant human G-CSF. Bessho M, et al. **Leuk Res** 1989;13(11):1001–7

Changing response of clonogenic myeloid leukemia blasts to granulocyte-macrophage colony-stimulating factor (GM-CSF) during anti-leukemic therapy—a case report on the basis of a clinical phase II trial. Hiddemann W, et al. **Leuk Res** 1990;14(4):347–52

Hematopoietic growth factors: biology and clinical application. Gabrilove JL, et al. **Monogr Natl Cancer Inst** 1990;(10):73–7 (12 ref.)

Cyclosporine and recombinant granulocyte colony-stimulating factor in severe aplastic anemia [letter] Kojima S, et al. **N Engl J Med** 1990 Sep 27;323(13):920–1

Effect of granulocyte colony-stimulating factor after intensive induction therapy in relapsed or refractory acute leukemia. Ohno R, et al. **N Engl J Med** 1990 Sep 27; 323(13):871–7

GM-CSF boosts survival rate in marrow transplant failures [news] **Oncology (Williston Park)** 1990 Apr;4(4):137

G-CSF improves white blood count in preleukemic patients [news] **Oncology (Williston Park)** 1989 Oct;3(10):52

GM-CSF may hasten patient recovery while reducing costs [news] **Oncology (Williston Park)** 1989 Jul;3(7):56, 59

Clinical applications of colony-stimulating factors. Griffin JD. **Oncology (Williston Park)** 1988 Jan;2(1):15–23 (41 ref.)

Colony-stimulating factors in the treatment of HIV-associated non-Hodgkin's lymphoma. Walsh C. **Oncology (Williston Park)** 1989 Oct;3(10):79–83; discussion 84–6 (26 ref.)

The kinetics of human granulopoiesis following treatment with granulocyte colony-stimulating factor in vivo. Lord BI, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9499–503

Effects of recombinant human granulocyte-macrophage colony-stimulating factor as treatment for aplastic anemia and agranulocytosis. Champlin RE, et al. **Prog Clin Biol Res** 1990;338:143–50

Effects of treatment of myelodysplastic syndromes with recombinant human granulocyte colony stimulating factor. Greenberg P, et al. **Prog Clin Biol Res** 1990;338:151–61

Hematopoietic growth factors in bone marrow transplantation for hematologic malignancies. Lazarus HM. **Prog Clin Biol Res** 1990;352:531–8 (32 ref.)

The use of recombinant human granulocyte-macrophage colony-stimulating factor in autologous bone marrow transplantation. Peters WP, et al. **Prog Clin Biol Res** 1990; 338:121–8

Granulocyte macrophage colony stimulating factor (GM-CSF) in AIDS. Scadden DT. **Prog Clin Biol Res** 1990;338:163–76 (23 ref.)

Clinical perspectives on colony-stimulating factors. Proceedings of a symposium in conjunction with the 31st annual meeting of the American Society of Hematology. December 1, 1989, Atlanta, Georgia. **Semin Hematol** 1990 Jul;27(3 Suppl 3):1–31

The clinical use of hematopoietic growth factors. Appelbaum FR. **Semin Hematol** 1989 Jul;26(3 Suppl 3):7–14 (32 ref.)

Granulocyte-macrophage colony-stimulating factor in human immunodeficiency virus disease. Groopman JE. **Semin Hematol** 1990 Jul;27(3 Suppl 3):8–14 (28 ref.)

Status of colony-stimulating factors in cancer and AIDS. Groopman JE. **Semin Oncol** 1990 Feb;17(1 Suppl 1):31–7; discussion 38–41 (18 ref.)

[Agranulocytosis treatment with rhGM-CSF (letter)] Rosien U, et al. **Dtsch Med Wochenschr** 1989 Nov 24;114(47):1861 **(Ger)**

[Colony-stimulating factors] Uhl D. **Med Monatsschr Pharm** 1990 Jun;13(6):162–4 **(Ger)**

[Combined GM-CSF and erythropoietin therapy in myelodysplastic syndrome] Egli F, et al. **Schweiz Med Wochenschr** 1989 Dec 9;119(49):1777–80 (Eng. Abstr.) **(Ger)**

[Use of colony-stimulating factors as possible therapeutic agents] Testa U. **Ann Ist Super Sanita** 1989;25(2):363–7 (11 ref.) (Eng. Abstr.) **(Ita)**

[Use of recombinant hematopoietic growth factors after chemotherapy and high-dose chemo-radiotherapy] Gianni AM, et al. **Haematologica (Pavia)** 1989 Oct;74(5 Suppl):511–26 (37 ref.) **(Ita)**

[GM-CSF: its clinical administration; the treatment of aplasia] Rossi Ferrini P, et al. **Haematologica (Pavia)** 1989 Oct;74(5 Suppl):489–500 (27 ref.) **(Ita)**

[GM-CSF: its use in onco-hematologic diseases] Visani G, et al. **Haematologica (Pavia)** 1989 Oct;74(5 Suppl):501–10 (35 ref.) **(Ita)**

[Stem cell-colony stimulating factors] Urabe A, et al. **Gan No Rinsho** 1989 May;Spec No:287–93 (17 ref.) **(Jpn)**

[Clinical effect of recombinant human granulocyte colony-stimulating factor in bone marrow transplantation. The Japan rhG-CSF Clinical Study Group] Asano S, et al. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1201–9 (Eng. Abstr.) **(Jpn)**

[Clinical trial of KRN 8601 in patients with neutropenia induced by chemotherapy for lung cancer] Kimura I, et al. **Gan To Kagaku Ryoho** 1990 May;17(5):999–1003 (Eng. Abstr.) **(Jpn)**

[Indication of BMT and/or CSF for the recovery of radiation-injured hematopoietic stem cells] Kuramoto A. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):919–21 (5 ref.) **(Jpn)**

[Granulocyte colony stimulating factor for bone marrow transplantation] Masaoka T. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3543–9 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Human monocytic colony-stimulating factor] Motoyoshi K. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3531–6 (10 ref.) (Eng. Abstr.) **(Jpn)**

[A phase III study of KRN 8601 (rhG-CSF) on neutropenia induced by chemotherapy for malignant lymphoma—a multi-institutional placebo controlled double-blind comparative study] Ogawa M, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):365–73 (Eng. Abstr.) **(Jpn)**

[Phase I, II studies of recombinant granulocyte colony stimulating factor (gamma hG-CSF)] Ogawa M. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3537–42 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of recombinant human granulocyte colony-stimulating factor (rG-CSF) on chemotherapy-induced neutropenia in patients with lung cancer] Ohnoshi T, et al. **Gan To Kagaku Ryoho** 1990 Apr; 17(4 Pt 2):911–8 (Eng. Abstr.) **(Jpn)**

[Effects of recombinant human granulocyte colony stimulating factor following high-dose cytosine arabinoside therapy in children with malignancy] Osugi Y, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1379–82 **(Jpn)**

[Clinical effect of recombinant human G-CSF on neutropenia induced by chemotherapy for lung cancer. rG.CSF Cooperation Study Group] Ota K, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):65–71 (Eng. Abstr.) **(Jpn)**

[Colony stimulating factor] Takaku F. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3550–3 (Eng. Abstr.) **(Jpn)**

[Study of the prophylactic effect of human granulocyte-colony stimulating factor (G-CSF) on experimental pyelonephritis induced by Pseudomonas aeruginosa in diabetic mice] Yokoo A, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):738–47 (Eng. Abstr.) **(Jpn)**

[Recent progress in the treatment of hematological malignancies. III. Acute leukemia—treatment with cytokines] Urushizaki I, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):781–4 **(Jpn)**

[High dose chemotherapy in malignant gliomas using autologous bone marrow transplantation and GM-CSF: granulocyte-macrophage colony stimulating factors] Yamashita J, et al. **No Shinkei Geka** 1990 Apr;18(4):329–38 (71 ref.) **(Jpn)**

[Chronic idiopathic neutropenia improved by recombinant granulocyte colony stimulating factor] Kojima H, et al. **Rinsho Ketsueki** 1990 Feb;31(2):189–93 (Eng. Abstr.) **(Jpn)**

[Sweet's syndrome in patient with refractory anemia during recombinant human granulocyte colony stimulating factor therapy] Sai M, et al. **Rinsho Ketsueki** 1990 Feb;31(2):245–8

(Eng. Abstr.) (Jpn)
[Clinical application of recombinant human colony-stimulating factor (rhG-CSF) in bone marrow transplantation] Takahashi S, et al. **Rinsho Ketsueki** 1990 May;31(5):589-96 (Eng. Abstr.) (Jpn)
[Hematopoietic growth factors (editorial)] Zamora Auñón P, et al. **Med Clin (Barc)** 1990 Jan 27;94(3):98-9 (Spa)
[GM-CSF: granulocyte and macrophage colony stimulating factor. A biologic agent with a great therapeutic potential in oncology] Cortes-Funes H. **Rev Clin Esp** 1990 Mar; 186(4):173-4 (12 ref.) (Spa)

URINE

Alterations of granulopoiesis following chemotherapy. Greenberg P, et al. **Blood** 1974 Sep;44(3):375-83
Partial purification and characterization of human megakaryocyte colony-stimulating factor (Meg-CSF). Ogata K, et al. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:103-20

COLOR

Degradation of colour temperature characteristic of thermographic sheets of Czechoslovak provenance provoked by UV radiation. Pospíšil E, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;123:313-21
'What colour are your disasters?' [letter] Hodgson RA. **Anaesth Intensive Care** 1990 May;18(2):274
Intravenous cannulae colour coding. A perennial source of confusion. Tordoff SG, et al. **Anaesthesia** 1990 May; 45(5):399-400
Azure lunulae due to argyria. Koplon BS. **Arch Dermatol** 1966 Sep;94(3):333-4 (10 ref.)
Crystalline and amorphous gold in chrysiasis. Benn HP, et al. **Arch Dermatol Res** 1990;282(3):172-8
Growth of cultured RPE and endothelial cells is inhibited by blue light but not green or red light. Dorey CK, et al. **Curr Eye Res** 1990 Jun;9(6):549-59
Red glasses and visual function in retinitis pigmentosa. Van den Berg TJ. **Doc Ophthalmol** 1989 Nov;73(3):255-74
Proximity compatibility and information display: effects of color, space, and object display on information integration. Wickens CD, et al. **Hum Factors** 1990 Feb;32(1):61-77
Performance assessment of colorimetric devices on dental porcelains. Seghi RR, et al. **J Dent Res** 1989 Dec; 68(12):1755-9
Visual and instrumental colorimetric assessments of small color differences on translucent dental porcelain. Seghi RR, et al. **J Dent Res** 1989 Dec;68(12):1760-4
The 35-mm slide—is blue better? [letter] Heudebert GR, et al. **J Gen Intern Med** 1990 May-Jun;5(3):273
Amplitude and phase of responses of macaque retinal ganglion cells to flickering stimuli. Lee BB, et al. **J Physiol (Lond)** 1989 Jul;414:245-63
Sensitivity of macaque retinal ganglion cells to chromatic and luminance flicker. Lee BB, et al. **J Physiol (Lond)** 1989 Jul;414:223-43
Shade selection by color vision-defective dental personnel. Davison SP, et al. **J Prosthet Dent** 1990 Jan;63(1):97-101
The influence of condensation method on porosity and shade of body porcelain. Evans DB, et al. **J Prosthet Dent** 1990 Apr;63(4):380-9
A comparison of new and conventional methods for quantification of tooth color. van der Burgt TP, et al. **J Prosthet Dent** 1990 Feb;63(2):155-62
Differences in color preferences of school-age children in varying stages of health: a preliminary study. Fleming JW, et al. **Matern Child Nurs J** 1988 Fall;17(3):173-89
Povidone iodine as a cause of factitious hematuria and abnormal urine coloration in the pediatric emergency department. Baker MD, et al. **Pediatr Emerg Care** 1989 Dec;5(4):240-1
Clear PMMA versus yellow intraocular lens material. An electrophysiologic study on pigmented rabbits regarding "the blue light hazard". Nilsson SE, et al. **Prog Clin Biol Res** 1989;314:539-53
Color stability of three composite resins used in the inlay/onlay technique. Peutzfeldt A, et al. **Scand J Dent Res** 1990 Jun;98(3):257-60
[The red blob of the artist Larrieu] Peyresblanques J. **Bull Soc Ophtalmol Fr** 1989 Apr;89(4):523-4 (Fre)
[Re-coloration of pathological preparations exhibited in museums] Krutsay M. **Morphol Igazsagugyi Orv Sz** 1989 Jul;29(3):204-6 (Eng. Abstr.) (Hun)
[The color of drugs: a preliminary survey] Sebellico A. **Boll Soc Ital Biol Sper** 1989 Jul;65(7):685-7 (Eng. Abstr.) (Ita)
[Characteristics of color selection in the Luscher test as indicators of a typical emotional status of pilots] Kuznetsov ON, et al. **Kosm Biol Aviakosm Med** 1990 Mar-Apr; 24(2):15-8 (Eng. Abstr.) (Rus)

COLOR BLINDNESS see COLOR VISION DEFECTS

COLOR PERCEPTION

see related
COLOR VISION DEFECTS

Colour vision in a family with Sorsby's dystrophy. Atchison DA. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):617-24
Effect of conflicting cues on information processing: the 'Stroop effect' vs. the 'Simon effect'. Simon JR, et al. **Acta Psychol (Amst)** 1990 Mar;73(2):159-70
Verbal coding and the elimination of Stroop interference in a matching task. Mascolo MF, et al. **Am J Psychol** 1990 Summer;103(2):195-215
Emotional Stroop performance and the manic defence. Bentall RP, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):235-7
Visual search along the colour dimension. Moraglia G, et al. **Can J Psychol** 1989 Mar;43(1):1-12
Priorities in children's expectations about object label reference: form over color. Baldwin DA. **Child Dev** 1989 Dec;60(6):1291-306
Infants' detection of correlations among feature categories. Younger B. **Child Dev** 1990 Jun;61(3):614-20
Testing the use of color in a long-term care setting. Cooper B, et al. **Dimens Health Serv** 1989 Sep;66(6):22, 24-6
Visual performance and subjective discomfort in prolonged viewing of chromatic displays. Matthews ML, et al. **Hum Factors** 1989 Jun;31(3):259-71
Glaucomatous visual loss: field, color, and contrast. Drake MV. **Int Ophthalmol Clin** 1990 Summer;30(3):169-76 (48 ref.)
Chromatic, spatial, and temporal losses of sensitivity in multiple sclerosis. Dain SJ, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):548-58
Glaucomatous visual field damage. Luminance and color-contrast sensitivities. Hart WM Jr, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):359-67
The effect of stimulus color on naming performance of aphasic adults. Towne RL, et al. **J Commun Disord** 1989 Dec;22(6):397-405
Choice behavior in transition: development of preference for the higher probability of reinforcement. Bailey JT, et al. **J Exp Anal Behav** 1990 May;53(3):409-22
On the limits of the matching concept in monkeys (Cebus apella). D'Amato MR, et al. **J Exp Anal Behav** 1989 Nov; 52(3):225-36
Alternative reinforcement increases resistance to change: Pavlovian or operant contingencies? Nevin JA, et al. **J Exp Anal Behav** 1990 May;53(3):359-79
Conditioned reinforcement versus time to reinforcement in chain schedules. Williams BA, et al. **J Exp Anal Behav** 1990 May;53(3):381-93
Element and compound matching-to-sample performance in pigeons: the roles of information load and training history. Brown MF, et al. **J Exp Psychol [Anim Behav]** 1990 Apr; 16(2):185-92
Transparent layer constancy. Gerbino W, et al. **J Exp Psychol [Hum Percept]** 1990 Feb;16(1):3-20
Neon colors illuminate reading units. Prinzmetal W. **J Exp Psychol [Hum Percept]** 1990 Aug;16(3):584-97
Judgments of proportions. Varey CA, et al. **J Exp Psychol [Hum Percept]** 1990 Aug;16(3):613-25
Color affects perceived odor intensity. Zellner DA, et al. **J Exp Psychol [Hum Percept]** 1990 May;16(2):391-7
Some variables in the blue (red) phenomenon. Wiegersma S, et al. **J Gen Psychol** 1989 Jul;116(3):259-69
Color and contrast sensitivity in the lateral geniculate body and primary visual cortex of the macaque monkey. Hubel DH, et al. **J Neurosci** 1990 Jul;10(7):2223-37
Redetermination of colors for uniform scales. MacAdam DL. **J Opt Soc Am [A]** 1990 Jan;7(1):113-5
Predictions about chromatic receptive fields assuming random cone connections. Young RA, et al. **J Theor Biol** 1989 Nov 8;141(1):23-40
Segregation of color and form. Intact spatial wavelength discrimination in strabismic amblyopia. Hilz R, et al. **Naturwissenschaften** 1989 Oct;76(10):479-80
Accommodation performance for chromatic displays [comment] Charman WN. **Ophthalmic Physiol Opt** 1989 Oct;9(4):459-63 Comment on: Ophthalmic Physiol Opt 1988;8(4):443-9.
Are colour vision standards justified for the transport industry? Vingrys AJ, et al. **Ophthalmic Physiol Opt** 1988; 8(3):257-74
Effect of short wavelength absorbing filters on Farnsworth-Munsell 100 Hue test and hue identification task performance. Kuyk TK, et al. **Optom Vis Sci** 1990 Jul;67(7):522-31
Orbeli's experimental work on color discrimination in dogs. Windholz G. **Pavlov J Biol Sci** 1989 Oct-Dec;24(4):133-7
Note on color preference and color vision test performance. Buckalew LW, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):1039-42
Research methodology in color research with textiles and clothing applications. Francis SK. **Percept Mot Skills** 1989 Oct;69(2):690
Time perception and the Stroop task. Marshall MJ, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1159-62
Mechanisms involved in the Münsterberg "shifted chequerboard" illusion: an empirical test. Purghé F, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1179-86
Effect of auditory presentation of words on color naming: the intermodal Stroop effect. Shimada H. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1155-61
Simultaneous achromatic contrast as viewed in a bidimensional system: an examination of the binocular matching method. Uemura Y. **Percept Mot Skills** 1990 Jun; 70(3 Pt 2):1074
Auditory and visual effects on solutions to computerized mathematics problems as a function of rate of digit presentation. Vitulli WF, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1127-30
Boundary conditions on parallel processing in human vision. Duncan J. **Perception** 1989;18(4):457-69
Aging, selective attention, and feature integration. Plude DJ, et al. **Psychol Aging** 1989 Mar;4(1):98-105
Response effects in the perception of conjunctions of colour and form. Chmiel N. **Psychol Res** 1989;51(3):117-22
Mental representation and hypothetico-deductive reasoning: the case of the THOG problem. Girotto V, et al. **Psychol Res** 1989;51(3):129-35
On the control of automatic processes: a parallel distributed processing account of the Stroop effect. Cohen JD, et al. **Psychol Rev** 1990 Jul;97(3):332-61 (73 ref.)
Event-related potentials during memory search and selective attention to letter size and conjunctions of letter size and color. Wijers AA, et al. **Psychophysiology** 1989 Sep; 26(5):529-47
The structure of memory: evidence concerning the recall of surface and background color of shapes. Wilton RN. **Q J Exp Psychol [A]** 1989 Aug;41(3):579-98
Consistency in synesthetic experience to vowels and consonants: five case studies. Svartdal F, et al. **Scand J Psychol** 1989;30(3):220-7
[Changes in color perception during the use of the Vacumcolor 50% tinted glasses in normal trichromatic individuals] Hlinomazová Z, et al. **Cesk Oftalmol** 1990 Mar; 46(2):145-9 (Eng. Abstr.) (Cze)
[Processing of a speech signal and thereby necessary attention: a contribution to dual performance] Lazarus-Mainka G, et al. **Z Psychol** 1989;197(2):171-85 (Eng. Abstr.) (Ger)
[Theoretical patterns of the panel D-15 test in congenital red-green dichromats as a function of the chromaticity coordinate of the convergence points] Okabe T, et al. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1160-6 (Eng. Abstr.) (Jpn)

GENETICS

Nonspecific imprintability of quail to colors: response to artificial selection. Kovach J. **Behav Genet** 1990 Jan; 20(1):91-6
A 195-kb cosmid walk encompassing the human Xq28 color vision pigment genes. Feil R, et al. **Genomics** 1990 Feb; 6(2):367-73
Molecular genetics of X chromosome-linked color vision among populations of African and Japanese ancestry: high frequency of a shortened red pigment gene among Afro-Americans. Jørgensen AL, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6512-6
Genetic studies of variation in Rayleigh and photometric matches in normal trichromats. Lutze M, et al. **Vision Res** 1990;30(1):149-62
Isolation, DNA sequence and evolution of a color visual pigment gene of the blind cave fish Astyanax fasciatus. Yokoyama R, et al. **Vision Res** 1990;30(6):807-16

PHYSIOLOGY

Effects of yellow, orange and red filter glasses on the thresholds of a dark-adapted human eye. Aarnisalo E, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):168-74
Effect of spectral flash on readaptation time. Wang L, et al. **Aviat Space Environ Med** 1990 Feb;61(2):125-31
Key pecking operant conditioning in detelencephalated pigeons (Columba livia). De Souza CM, et al. **Behav Brain Res** 1990 May 28;38(3):223-31
Medial versus lateral hyperstriatal lesions in pigeons: effects on autoshaping, non-matching-to-sample and spatial discrimination learning at short and long intertrial intervals. Macphail EM, et al. **Behav Brain Res** 1989 Oct 1; 35(1):63-73
Development of feature detectors by self-organization. A network model. Rubner J, et al. **Biol Cybern** 1990; 62(3):193-9
An electrophysiological investigation of the spatial distribution of attention to colored stimuli in focused and divided attention conditions. Wijers AA, et al. **Biol Psychol** 1989 Dec;29(3):213-45
Neural, optical, and search performance in prolonged viewing of chromatic displays. Lovasik JV, et al. **Hum Factors** 1989 Jun;31(3):273-89
Identification of pedicles of putative blue-sensitive cones in the human retina. Ahnelt P, et al. **J Comp Neurol** 1990 Mar 1;293(1):39-53
Carbohydrate components recognized by the cone-specific monoclonal antibody CSA-1 and by peanut agglutinin are associated with red and green-sensitive cone photoreceptors. Röhlich P, et al. **J Comp Neurol** 1989 Nov 15;289(3):395-400
Learning and discrimination of coloured papers in the walking blowfly, Lucilia cuprina. Fukushi T. **J Comp Physiol [A]** 1989 Nov;166(1):57-64
Spectral sensitivity of the compound eyes in two day-active fireflies (Coleoptera: Lampyridae: Lucidota). Lall AB, et al. **J Comp Physiol [A]** 1989 Dec;166(2):257-60
"Tho' she kneel'd in that place where they grew..." The uses and origins of primate colour vision. Mollon JD. **J Exp Biol** 1989 Sep;146:21-38 (72 ref.)
Spatiospectral properties of goldfish retinal ganglion cells. Bilotta J, et al. **J Neurophysiol** 1989 Nov;62(5):1140-8
Chromatic mechanisms in striate cortex of macaque. Lennie P, et al. **J Neurosci** 1990 Feb;10(2):649-69
Visual interactions with luminance and chromatic stimuli.

Cole GR, et al. **J Opt Soc Am [A]** 1990 Jan;7(1):128–40
Opponent-color receptive-field profiles determined from large-area psychophysical measurements. Kelly DH. **J Opt Soc Am [A]** 1989 Nov;6(11):1784–93
Wavelength discrimination at detection threshold. Mullen KT, et al. **J Opt Soc Am [A]** 1990 Apr;7(4):733–42
Critical color differences determined with a visual search task. Nagy AL, et al. **J Opt Soc Am [A]** 1990 Jul; 7(7):1209–17
Task-dependent color discrimination. Poirson AB, et al. **J Opt Soc Am [A]** 1990 Apr;7(4):776–82
Surface characterizations of color thresholds. Poirson AB, et al. **J Opt Soc Am [A]** 1990 Apr;7(4):783–9
Loci of spectral unique hues throughout the life span. Schefrin BE, et al. **J Opt Soc Am [A]** 1990 Feb;7(2):305–11
Motion nulls for white versus isochromatic gratings in infants and adults. Teller DY, et al. **J Opt Soc Am [A]** 1989 Dec; 6(12):1945–54
Additivity of spatially induced blackness. Volbrecht VJ, et al. **J Opt Soc Am [A]** 1990 Jan;7(1):106–12
Orientation and spatial-frequency discrimination for luminance and chromatic gratings. Webster MA, et al. **J Opt Soc Am [A]** 1990 Jun;7(6):1034–49
Functions of the colour-opponent and broad-band channels of the visual system [see comments] Schiller PH, et al. **Nature** 1990 Jan 4;343(6253):68–70 Comment in: Nature 1990 Jan 4;343(6253):16–7.
Cerebral correlates of imagining colours, faces and a map—I. SPECT of regional cerebral blood flow. Goldenberg G, et al. **Neuropsychologia** 1989;27(11–12):1315–28
Cerebral correlates of imagining colours, faces and a map—II. Negative cortical DC potentials. Uhl F, et al. **Neuropsychologia** 1990;28(1):81–93
Do visibility and colour recognition isopters relate to the distribution of P alpha and P beta ganglion cells of the human retina? Drasdo N, et al. **Ophthalmic Physiol Opt** 1989 Oct;9(4):447–50
The role of small-field tritanopia in two measures of colour vision. Tuck JP, et al. **Ophthalmic Physiol Opt** 1990 Apr; 10(2):195–9
Lateralization differences for color-naming and color-matching in men and women. Tokar DM, et al. **Percept Mot Skills** 1989 Oct;69(2):651–6
The analogy between stereo depth and brightness. Brookes A, et al. **Perception** 1989;18(5):601–14
Adaptation of suprathreshold contrast and luminance stimuli. de Vries MJ, et al. **Perception** 1989;18(5):615–25
Telencephalic function implicated in food-reinforced color discrimination learning in the goldfish. Ohnishi K. **Physiol Behav** 1989 Oct;46(4):707–12
A functional theory of the McCollough effect. Dodwell PC, et al. **Psychol Rev** 1990 Jan;97(1):78–89 (90 ref.)
Perceptual deficits and the activity of the color-opponent and broad-band pathways at isoluminance. Logothetis NK, et al. **Science** 1990 Jan 12;247(4939):214–7
Dependence of the chromatic valence function on chromatic standards. Ayama M, et al. **Vision Res** 1989;29(9):1233–44
Effects of isoluminant-background color on metacontrast and stroboscopic motion: interactions between sustained (P) and transient (M) channels. Breitmeyer BG, et al. **Vision Res** 1990;30(7):1069–75
Development of visual sensitivity to light and color vision in human infants: a critical review. Brown AM. **Vision Res** 1990;30(8):1159–88 (96 ref.)
The gap effect revisited: slow changes in chromatic sensitivity as affected by luminance and chromatic borders. Eskew RT Jr. **Vision Res** 1989;29(6):717–29
Sites of sensitivity control within a long-wavelength cone pathway. Finkelstein MA, et al. **Vision Res** 1990; 30(8):1145–58
Independent orientation-selective mechanisms for the cardinal directions of colour space. Flanagan P, et al. **Vision Res** 1990;30(5):769–78
Color and brightness fade-out in the Ganzfeld is wavelength dependent. Gur M. **Vision Res** 1989;29(10):1335–41
Peripheral field stimulation affects foveal flicker, but not color, sensitivity. He ZJ, et al. **Vision Res** 1990; 30(7):1107–10
Discrimination of luminance and chromaticity differences by dichromatic and trichromatic monkeys. Jacobs GH. **Vision Res** 1990;30(3):387–97
The minimum motion technique applied to determine isoluminance in psychophysical experiments with monkeys. Logothetis NK, et al. **Vision Res** 1990;30(6):829–38
Texture segregation with luminance and chromatic contrast. McIlhagga W, et al. **Vision Res** 1990;30(3):489–95
The slope of the psychometric function at different wavelengths. Maloney LT. **Vision Res** 1990;30(1):129–36
Polymorphism in normal human color vision and its mechanism. Neitz J, et al. **Vision Res** 1990;30(4):621–36
Tetrachromatic color vision in the goldfish becomes trichromatic under white adaptation light of moderate intensity. Neumeyer C, et al. **Vision Res** 1989; 29(12):1719–27
Color mixing in the pigeon. A psychophysical determination in the longwave spectral range. Palacios A, et al. **Vision Res** 1990;30(4):587–96
Spatial properties of rod-cone interactions in flicker and hue detection. Peachey NS, et al. **Vision Res** 1990;30(8):1205–10
The ellipsoidal representation of spectral sensitivity. Poirson AB, et al. **Vision Res** 1990;30(4):647–52
On neural signals that mediate induced blackness. Shevell SK. **Vision Res** 1989;29(7):891–900
Temporal summation in a rod monochromat: response to Sharpe, Fach and Nordby [letter] Skottun BC. **Vision Res** 1989;29(12):1831–4
Influence of achromatic surrounds on categorical perception of surface colors. Uchikawa H, et al. **Vision Res** 1989; 29(7):881–90
"Colour constancy" in Mondrian patterns: a partial cancellation of physical chromaticity shifts by simultaneous contrast. Valberg A, et al. **Vision Res** 1990;30(3):371–80
Temporal induction of blackness—II. Spectral efficiency and tests of additivity. Volbrecht VJ, et al. **Vision Res** 1989; 29(10):1437–55
Temporal induction of blackness—I. Color appearance. Volbrecht VJ, et al. **Vision Res** 1989;29(10):1425–36
Improved color fundamentals offer a new view on photometric additivity. Vos JJ, et al. **Vision Res** 1990; 30(6):937–43
Isolation of scotopic human electroretinograms using color adaptation and pattern reversal stimuli. Wu SA, et al. **Vision Res** 1989;29(10):1277–83
[Color vision in patients with juvenile onset diabetes mellitus] Gerkowicz M. **Klin Oczna** 1989 Jul-Sep;91(7–9):194 (Eng. Abstr.) **(Pol)**
[Protective sunglasses and color discriminating ability] Trusiewicz D, et al. **Klin Oczna** 1989 Feb-Mar;91(2–3):37–9 (Eng. Abstr.) **(Pol)**
[Colors containing a black component] Bertulis AV, et al. **Fiziol Cheloveka** 1989 May-Jun;15(3):158–63 **(Rus)**
[Color preference as an index of emotional-personality characteristics (research under conditions of transient depression of the right or left hemisphere)] Nikolaenko NN, et al. **Fiziol Cheloveka** 1989 Jul-Aug;15(4):11–5 **(Rus)**
[The results of research on visual fatigue in children by determining the perception time of a sequential color contrast] Serdiuchenko VI. **Oftalmol Zh** 1989;(5):275–8 (Eng. Abstr.) **(Rus)**
[Characteristics of the acquisition of conditioned food reflexes to color stimuli in cats] Kuraev GA, et al. **Zh Vyssh Nerv Deiat** 1990 Jan-Feb;40(1):169–72 **(Rus)**
[The learning capacity of crows and pigeons: the formation of a system of color stimulus discrimination with an increasing number of reinforcements] Zorina ZA, et al. **Zh Vyssh Nerv Deiat** 1989 Jul-Aug;39(4):660–6 **(Rus)**

COLOR PERCEPTION TESTS

The flight of colours test. Its value as an indicator of dysfunction of the visual pathways. Hamilton-Bruce MA, et al. **Clin Exp Neurol** 1988;25:97–102
Color vision characteristics of visually impaired children. Kalloniatis M, et al. **Optom Vis Sci** 1990 Mar;67(3):166–8
Note on color preference and color vision test performance. Buckalew LW, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):1039–42
[Theoretical patterns of the panel D-15 test in congenital dichromatic color vision defects] Kandatsu A, et al. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1154–9 (Eng. Abstr.) **(Jpn)**
[Theoretical patterns of the panel D-15 test in congenital red-green dichromats as a function of the chromaticity coordinate of the convergence points] Okabe T, et al. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1160–6 (Eng. Abstr.) **(Jpn)**

HISTORY

[Final clarification of Goethe's findings in the examination of color blind patients] Jaeger W. **Klin Monatsbl Augenheilkd** 1989 Dec;195(6):382–7 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Application of a LaserJet printer to plot the Farnsworth-Munsell 100-hue color test. Cooper H, et al. **Optom Vis Sci** 1990 May;67(5):372–6
[The tritan plates of the Ergovision apparatus: evaluation] Lanthony P. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):17–20 (Eng. Abstr.) **(Fre)**
[Recent trends and developments in the clinical study of color vision—the 2-comparison method] Roth A, et al. **Fortschr Ophthalmol** 1989;86(4):374–9 (Eng. Abstr.) **(Ger)**
[Early diagnosis of congenital disorders of color vision with the Velhagen "Pflügerhaken Color Charts for evaluating color perception" in 3,375 preschool children] Marré M, et al. **Klin Monatsbl Augenheilkd** 1990 Jan;196(1):21–5 (Eng. Abstr.) **(Ger)**

METHODS

Heterochromatic modulation photometry. Pokorny J, et al. **J Opt Soc Am [A]** 1989 Oct;6(10):1618–23
[The Ohkuma's test: an evaluation] Lanthony P. **Ophthalmologica** 1990;200(2):84–8 (Eng. Abstr.) **(Fre)**
[The value of the red-green test] Körner H. **Klin Monatsbl Augenheilkd** 1990 Jul;197(1):68–71 (Eng. Abstr.) **(Ger)**
[Anomaloscope measurement using the method of constant stimuli] Hukami K. **Nippon Ganka Gakkai Zasshi** 1990 Feb; 94(2):203–10 (Eng. Abstr.) **(Jpn)**
[Computer-assisted testing of the sense of color] Popescu MP, et al. **Rev Chir [Oftalmol]** 1989 Oct-Dec;33(4):259–63 (Eng. Abstr.) **(Rum)**

STANDARDS

The role of small-field tritanopia in two measures of colour vision. Tuck JP, et al. **Ophthalmic Physiol Opt** 1990 Apr; 10(2):195–9

COLOR VISION see COLOR PERCEPTION

COLOR VISION DEFECTS

A disorder of lightness discrimination in a case of visual form agnosia. Milner AD, et al. **Cortex** 1989 Sep;25(3):489–94

BLOOD

[The reliability of the blood glucose test strip "Glucosignal" in self monitoring of blood glucose by diabetic patients with diabetic retinopathy and acquired color vision disorders] Pilz D, et al. **Z Arztl Fortbild (Jena)** 1989; 83(23):1175–8 **(Ger)**

CHEMICALLY INDUCED

Dyschromatopsia in heroin addicts. Dias PL. **Br J Addict** 1990 Feb;85(2):241–4
[Erythropsia following exposure to toluene] Prünte-Głowazki A. **Klin Monatsbl Augenheilkd** 1990 May; 196(5):421–2 (Eng. Abstr.) **(Ger)**
[Disorders of color vision in employees of the Masovian Refining and Petrochemical Industries in Płock] Trzciński J, et al. **Klin Oczna** 1989 Feb-Mar;91(2–3):43–4 (Eng. Abstr.) **(Pol)**

CONGENITAL

Use of the Farnsworth-Munsell 100-Hue test in the examination of congenital colour vision defects. Birch J. **Ophthalmic Physiol Opt** 1989 Apr;9(2):156–62
Comparison of the standard and Adams desaturated D-15 tests with congenital colour vision deficiencies. Dain SJ, et al. **Ophthalmic Physiol Opt** 1990 Jan;10(1):40–5

DIAGNOSIS

Color vision characteristics of visually impaired children. Kalloniatis M, et al. **Optom Vis Sci** 1990 Mar;67(3):166–8
[Color vision in glaucoma] Bartoš D. **Cesk Oftalmol** 1990 May;46(3):194–207 (Eng. Abstr.) **(Cze)**
[The tritan plates of the Ergovision apparatus: evaluation] Lanthony P. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):17–20 (Eng. Abstr.) **(Fre)**
[The Ohkuma's test: an evaluation] Lanthony P. **Ophthalmologica** 1990;200(2):84–8 (Eng. Abstr.) **(Fre)**
[Recent trends and developments in the clinical study of color vision—the 2-comparison method] Roth A, et al. **Fortschr Ophthalmol** 1989;86(4):374–9 (Eng. Abstr.) **(Ger)**
[Theoretical patterns of the panel D-15 test in congenital dichromatic color vision defects] Kandatsu A, et al. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1154–9 (Eng. Abstr.) **(Jpn)**
[The use of the panel D-15 test in estimating the convergence points for deuteranopia] Okabe T, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jan;94(1):74–9 (Eng. Abstr.) **(Jpn)**
[Theoretical patterns of the panel D-15 test in congenital red-green dichromats as a function of the chromaticity coordinate of the convergence points] Okabe T, et al. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1160–6 (Eng. Abstr.) **(Jpn)**
[Evaluation of color pattern VECP in deutan] Tsukamoto M, et al. **Nippon Ganka Gakkai Zasshi** 1989 Oct; 93(10):993–1001 (Eng. Abstr.) **(Jpn)**
[Color vision in patients with juvenile onset diabetes mellitus] Gerkowicz M. **Klin Oczna** 1989 Jul-Sep;91(7–9):194 (Eng. Abstr.) **(Pol)**

EPIDEMIOLOGY

Incidence of red-green color blindness in the Basque population. Rebato E, et al. **Anthropol Anz** 1990 Jun; 48(2):145–8
Gene frequency and type of colour blindness in Ethiopians. Zein ZA. **Ethiop Med J** 1990 Apr;28(2):73–5
The incidence of congenital color deficiency among Koreans. Kim HB, et al. **J Korean Med Sci** 1989 Sep;4(3):117–20

ETIOLOGY

Using argon laser blue light reduces ophthalmologists' color contrast sensitivity. Argon blue and surgeons' vision. Berninger TA, et al. **Arch Ophthalmol** 1989 Oct; 107(10):1453–8
Temporary chromatopsia and alternate umbropsia in multiple sclerosis. Cendrowski W. **Schweiz Arch Neurol Psychiatr** 1990;141(1):17–20
[Errors in the reading of self-monitoring reagent strips in diabetics with dyschromatopsia (letter)] Doucet J, et al. **Presse Med** 1989 Oct 28;18(35):1756 **(Fre)**
[Color vision defects in chronic open angle glaucoma] Jonas JB, et al. **Fortschr Ophthalmol** 1990;87(3):255–9 (Eng. Abstr.) **(Ger)**

GENETICS

The red–green visual pigment gene region in adrenoleukodystrophy. Aubourg P, et al. **Am J Hum Genet** 1990 Mar;46(3):459–69

A contiguous, 3–Mb physical map of Xq28 extending from the colorblindness locus to DXS15. Kenwrick S, et al. **Am J Hum Genet** 1989 Dec;45(6):873–82

Visual pigments, blue cone monochromasy, and retinitis pigmentosa [editorial] Wong F. **Arch Ophthalmol** 1990 Jul; 108(7):935–6

Genes and colour blindness [editorial] **Lancet** 1990 Feb 3; 335(8684):263–4

Analysis of fusion gene and encoded photopigment of colour–blind humans. Neitz J, et al. **Nature** 1989 Dec 7; 342(6250):679–82

[The progeny of the two protan and deutan families described by Franceschetti and Klein (1949, 1956), one generation later. Genealogy, color vision and genomic DNA] Roth A, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):275–8 (Eng. Abstr.) (Fre)

[Molecular genetics of human color vision] Tsuzuki T, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):1033–6 (Jpn)

HISTORY

[Final clarification of Goethe's findings in the examination of color blind patients] Jaeger W. **Klin Monatsbl Augenheilkd** 1989 Dec;195(6):382–7 (Eng. Abstr.) (Ger)

PATHOLOGY

Chromatopsia. Pinckers A, et al. **Doc Ophthalmol** 1989 Aug; 72(3–4):385–90

The density of cones in the fovea centralis of the human dichromat. Cicerone CM, et al. **Vision Res** 1989; 29(11):1587–95

PHYSIOPATHOLOGY

Cone interaction and color substitution as revealed by pattern ERG. Niepel G, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(3):264–9

Hue discrimination and S cone pathway sensitivity in early diabetic retinopathy. Greenstein V, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1008–14

Heterochromatic modulation photometry. Pokorny J, et al. **J Opt Soc Am [A]** 1989 Oct;6(10):1618–23

The photoreceptors in atypical achromatopsia. Hess RF, et al. **J Physiol (Lond)** 1989 Oct;417:123–49

Shade selection by color vision–defective dental personnel. Davison SP, et al. **J Prosthet Dent** 1990 Jan;63(1):97–101

Differences in the responses of heterozygous carriers of colorblindness and normal controls to briefly presented stimuli. Cohn SA, et al. **Vision Res** 1989;29(2):255–62

LWS cone effects on rod threshold and saturation in achromats with residual cone function. Schneck ME, et al. **Vision Res** 1990;30(7):973–83

[Congenital large field color vision defects] Hanabusa A, et al. **Nippon Ganka Gakkai Zasshi** 1990 Mar;94(3):294–9 (Eng. Abstr.) (Jpn)

PREVENTION & CONTROL

[Screening of early color vision loss in diabetic patients] Peduzzi M, et al. **J Fr Ophtalmol** 1989;12(11):791–6 (Eng. Abstr.) (Fre)

[Early diagnosis of congenital disorders of color vision with the Velhagen "Pflügerhaken Color Charts for evaluating color perception" in 3,375 preschool children] Marré M, et al. **Klin Monatsbl Augenheilkd** 1990 Jan;196(1):21–5 (Eng. Abstr.) (Ger)

PSYCHOLOGY

Note on color preference and color vision test performance. Buckalew LW, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):1039–42

COLORADO TICK FEVER see under **REOVIRUS INFECTIONS**

COLORADO TICK FEVER VIRUS see under **REOVIRIDAE**

COLORECTAL NEOPLASMS

The association of multiple colonic adenomatous polyps with cancer of the colon. Schuman BM, et al. **Am J Gastroenterol** 1990 Jul;85(7):846–9

Resection of liver metastases from a colorectal carcinoma does not benefit the patient. Hunt TM, et al. **Ann R Coll Surg Engl** 1990 May;72(3):199–205 (51 ref.)

Colorectal cancer. **Baillieres Clin Gastroenterol** 1989 Jul; 3(3):511–742

The pharmacokinetics of 5–fluorouracil administered by arterial infusion in advanced colorectal hepatic metastases. Goldberg JA, et al. **Br J Cancer** 1990 Jun;61(6):913–5

Hepatic resection for colorectal secondaries. Karanjia ND, et al. **Br J Surg** 1990 Jan;77(1):27–9

Hepatic resection for colorectal secondaries [letter] Taylor I. **Br J Surg** 1990 Jul;77(7):834

Intrahepatic mitomycin C as a salvage treatment for patieats with hepatic metastases from colorectal carcinoma. Schneider A, et al. **Cancer** 1989 Dec 1;64(11):2203–6

Regional chemotherapy in liver metastases of colorectal carcinoma: monitoring with arterial computed tomography. Safi F, et al. **Cancer Invest** 1990;8(2):123–34

Colorectal cancer. **Cancer Surv** 1989;8(1):1–203

Animal models in the study of colorectal cancer. Galloway DJ. **Cancer Surv** 1989;8(1):169–88 (146 ref.)

The role of chemotherapy in the treatment and prophylaxis of colorectal liver metastases. Hunt TM, et al. **Cancer Surv** 1989;8(1):71–90 (113 ref.)

Colorectal cancer—the Cinderella disease. Northover J. **Cancer Surv** 1989;8(1):1–6

Colorectal cancer in patients younger than 40 years of age. Smith C, et al. **Dis Colon Rectum** 1989 Oct;32(10):843–6

Treatment of liver metastases from colorectal cancer with continuous high dose intra–arterial floxuridine (FUDR) and systemic fluorouracil: a phase II study. Planting AS, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1887–8

Temporary chemoembolization of colorectal liver metastases with degradable starch microspheres. Lorenz M, et al. **Eur J Surg Oncol** 1989 Oct;15(5):453–62

Detection of colorectal liver metastases: which imaging technique is best? Miller TA. **Gastroenterology** 1989 Dec; 97(6):1589–91

Clinical diagnosis and therapy of colo–rectal cancer: state of the art. Bucci L, et al. **Int J Rad Appl Instrum [B]** 1989; 16(6):617–9 (14 ref.)

Small cell carcinoma of the large intestine presenting as central nervous systems signs and symptoms. Two case reports with literature review. Hussein AM, et al. **J Neurooncol** 1990 Jun;8(3):269–74 (17 ref.)

Risk of colorectal cancer among automotive pattern and model makers. Tilley BC, et al. **J Occup Med** 1990 Jun; 32(6):541–6

Should liver metastasis from colorectal cancers be treated surgically? [letter] Benhamou G, et al. **Lancet** 1990 Feb 24;335(8687):482–3

Colorectal carcinoma metastases: detection with In–111–labeled monoclonal antibody CCR 086. Abdel–Nabi HH, et al. **Radiology** 1990 Jul;176(1):117–22

The adenoma to carcinoma sequence. Tierney RP, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):81–94 (116 ref.)

[Liver metastases: a death sentence? (letter)] Boerma EJ. **Ned Tijdschr Geneeskd** 1990 Mar 10;134(10):504–5 (Dut)

[Surgical treatment of liver metastases from colorectal carcinoma] Mentges B, et al. **Dtsch Med Wochenschr** 1989 Oct 13;114(41):1557–61 (Eng. Abstr.) (Ger)

[Regional chemotherapy of liver metastases in colorectal carcinoma. Intra–arterial vs intravenous plus intra–arterial therapy] Safi F, et al. **Dtsch Med Wochenschr** 1989 Sep 29;114(39):1478–83 (Eng. Abstr.) (Ger)

[Current results and prospects of intra–arterial chemotherapy in hepatic metastases of carcinoma of the colorectum] Angelini F, et al. **Clin Ter** 1989 Sep 30;130(6):303–17 (90 ref.) (Eng. Abstr.) (Ita)

[Surgical therapy of liver metastases secondary to colorectal neoplasms] Capretti PG, et al. **Minerva Chir** 1990 Jun 15; 45(11):773–7 (Eng. Abstr.) (Ita)

[Radical surgery and loco–regional chemotherapy in the treatment of liver metastases of stomach and colorectal cancer] Di Giorgio A, et al. **Minerva Chir** 1989 Oct 15; 44(19):2065–71 (Eng. Abstr.) (Ita)

[Analysis of a series of cases of liver metastasis of colorectal carcinoma] Lasagna B, et al. **Minerva Chir** 1989 Nov 30; 44(22):2315–9 (Eng. Abstr.) (Ita)

[Surgical treatment of liver metastases of colorectal carcinoma. Our experience and review of the literature] Zanetti PP, et al. **Minerva Chir** 1990 Jun 15;45(11):779–84 (Eng. Abstr.) (Ita)

[Evaluation of reservoir inserted for the prevention of liver metastasis of colorectal cancer] Amino K, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1828–31 (Eng. Abstr.) (Jpn)

[Continuous hepatic arterial infusion chemotherapy using implantable reservoir in liver metastases from colorectal cancer] Iijima K, et al. **Gan To Kagaku Ryoho** 1990 Aug; 17(8 Pt 2):1820–3 (Eng. Abstr.) (Jpn)

[Efficacy of intra–arterial infusion chemotherapy in colorectal cancer with liver metastasis] Kakizaki K, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1665–8 (Eng. Abstr.) (Jpn)

[Results of prophylactic intra–arterial infusion chemotherapy after hepatic resection in colorectal metastases] Kawano N, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1824–7 (Eng. Abstr.) (Jpn)

[Clinical evaluation and problem of intra–arterial infusion chemotherapy of liver metastasis from digestive organ cancer] Ohya T, et al. **Gan To Kagaku Ryoho** 1990 Aug; 17(8 Pt 2):1808–10 (Eng. Abstr.) (Jpn)

[Chemoembolization for liver metastasis from colorectal cancer] Sasaki Y, et al. **Gan To Kagaku Ryoho** 1990 Aug; 17(8 Pt 2):1661–4 (Eng. Abstr.) (Jpn)

[A study of low–dose intermittent intra–arterial infusion chemotherapy for liver metastasis in colorectal cancer] Yasuda D, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1670–3 (Eng. Abstr.) (Jpn)

[Hepatic arterial infusion chemotherapy using implantable reservoir in colorectal liver metastasis] Yasuda S, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1815–9 (Eng. Abstr.) (Jpn)

[Etiological factors and possibilities of early diagnosis in colorectal cancer] Teploukhova IM, et al. **Vopr Onkol** 1990; 36(1):101–7 (Rus)

[Colorectal cancer: are diagnostic delay, degree of spread and survival related? Clinical analysis of 307 cases followed up for more than 4 years] García Olmo D, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):239–42 (Eng. Abstr.) (Spa)

[Colorectal carcinoma in young adults. Our experience] García Olmo D, et al. **Rev Esp Enferm Apar Dig** 1989 Aug; 76(2):125–31 (17 ref.) (Eng. Abstr.) (Spa)

ANALYSIS

Immunoelectron microscopic localization of human type III collagen in human gastrointestinal carcinomas. Ohtani H, et al. **Acta Pathol Jpn** 1990 May;40(5):327–34

Two–color multiparametric method for flow cytometric DNA analysis of carcinomas using staining for cytokeratin and leukocyte–common antigen. Zarbo RJ, et al. **Anal Quant Cytol Histol** 1989 Dec;11(6):391–402

Low expression of collagen receptors in moderate and poorly differentiated colorectal adenocarcinomas. Pignatelli M, et al. **Br J Cancer** 1990 Apr;61(4):636–8

Lectins and immunohistochemistry of colorectal cancer, its recurrences and metastases. Hohenberger P, et al. **Eur J Surg Oncol** 1990 Aug;16(4):289–97

Prognostic significance of alpha–1–antitrypsin in early stage of colorectal carcinomas. Karashima S, et al. **Int J Cancer** 1990 Feb 15;45(2):244–50

Immunohistochemical demonstration of altered intracellular localization of the C–Myc oncogene product in human colorectal neoplasms. Williams AR, et al. **J Pathol** 1990 Apr;160(4):287–93

[Fibronectin in gastrointestinal tumors and its relation to biological characteristics of tumor] Yin YX. **Chung–hua Ping Li Hsueh Tsa Chih** 1989 Jun;18(2):125–7 (Eng. Abstr.) (Chi)

[Immunohistochemical study on colorectal carcinoma] Tseng HH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Sep; 88(9):945–9 (Chi)

[Oncogene products and mRNA in colorectal carcinoma and adenoma] Monden T, et al. **Gan No Rinsho** 1989 May;Spec No:127–36 (Jpn)

[The significance of determination of urinary trypsin inhibitor related antigen in patients with cancer of the digestive organs] Nishino N. **Nippon Gan Chiryo Gakkai Shi** 1990 Mar 20;25(3):603–12 (Eng. Abstr.) (Jpn)

[Flow cytometric DNA analysis in colorectal cancer] Ando Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1571–5 (Eng. Abstr.) (Jpn)

[Effect of UFT on nuclear DNA distribution of gastric and colorectal carcinomas] Kosaka T, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):1955–8 (Eng. Abstr.) (Jpn)

[Flow cytometric analysis of DNA ploidy in esophageal and colorectal cancers—in relation to prognosis, pathologic findings, or family history of cancer] Yamazaki K. **Nippon Geka Gakkai Zasshi** 1989 Aug;90(8):1186–95 (Eng. Abstr.) (Jpn)

[A microspectrophotometric study of 'cancer in adenoma' of the colorectum] Masaki T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):283 (Jpn)

BLOOD

Erythrocyte membrane stearic acid: oleic acid ratios in colorectal cancer using tube capillary column gas liquid chromatography. Neoptolemos JP, et al. **Ann Clin Biochem** 1990 Jan;27 (Pt 1):38–43

Value of serum acute–phase reactant proteins and carcinoembryonic antigen in the preoperative staging of colorectal cancer. A multivariate analysis. Stamatiadis AP, et al. **Cancer** 1990 May 1;65(9):2055–7

An enzyme–linked immunosorbent assay for cancer procoagulant and its potential as a new tumor marker. Gordon SG, et al. **Cancer Res** 1990 Oct 1;50(19):6229–34

Blood levels of reduced and oxidized glutathione in malignant and non–malignant human colorectal lesions. Boisio ML, et al. **Eur J Cancer** 1990 Feb;26(2):89–91

Serum lipids and colorectal adenoma among male self–defence officials in northern Kyushu, Japan. Kono S, et al. **Int J Epidemiol** 1990 Jun;19(2):274–8

Prognostic significance of immunosuppressive substance in the sera of colorectal cancer patients [letter] Suzuki H, et al. **J Clin Gastroenterol** 1989 Oct;11(5):597–8

Declining serum cholesterol levels prior to diagnosis of colon cancer. A time–trend, case–control study. Winawer SJ, et al. **JAMA** 1990 Apr 18;263(15):2083–5

Comparison of serum assays for TAG–72, CA19–9 and CEA in gastrointestinal carcinoma patients. Ohuchi N, et al. **Jpn J Clin Oncol** 1989 Sep;19(3):242–8

A proposal of indices to describe the carcinoembryonic antigen time course in in order to assess the effects of treating recurrent colo–rectal carcinoma. Iwama T, et al. **Jpn J Surg** 1990 Jan;20(1):123–6

Plasma glutamate—a prognostic marker of cancer and of other immunodeficiency syndromes? Ollenschläger G, et al. **Scand J Clin Lab Invest** 1989 Dec;49(8):773–7

BLOOD SUPPLY

[Clinicopathologic study on venous invasion of colo–rectal cancer: a prospective study] Shirouzu K, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar;91(3):373–85 (Eng.

Abstr.) (Jpn)

CLASSIFICATION

Evidence for the existence of different types of large bowel tumor: suggestions from the clinical data of a population-based registry. Ponz de Leon M, et al. **J Surg Oncol** 1990 May;44(1):35-43

[Prognostic factors of colorectal cancer] Salmon RJ. **Pathol Biol (Paris)** 1989 Nov;37(9):987 (Fre)

COMPLICATIONS

Controversies, dilemmas and dialogues. Is there a need to perform full colonoscopy in a middle-age person with episodic bright red blood per rectum and internal hemorrhoids? Forde KA, et al. **Am J Gastroenterol** 1989 Oct;84(10):1227-8

Pernicious anemia and colorectal cancer [letter; comment] **Ann Intern Med** 1990 Apr 15;112(8):630-1 Comment on: Ann Intern Med 1989 Nov 1;111(9):738-42.

Surgical therapy for recurrent liver metastases from colorectal cancer. Stone MD, et al. **Arch Surg** 1990 Jun; 125(6):718-21; discussion 722

Surgical resection for colorectal hepatic metastases. Coppa GF. **Bull N Y Acad Med** 1990 May-Jun;66(3):211-20

Cutaneous candidosis in a non drug addict cancer patient [letter] Lopez-Gomez S, et al. **Clin Exp Dermatol** 1989 Jan;14(1):93-4

Is there an association between gastric polyps and colonic neoplasms? Shemesh E, et al. **Digestion** 1989;42(4):212-6

Primary aortoenteric fistula due to recurrent colorectal cancer. Report of a case. Armitage NC, et al. **Dis Colon Rectum** 1990 Feb;33(2):148-9

Gastrointestinal malignancies in Crohn's disease. A 20-year experience. Savoca PE, et al. **Dis Colon Rectum** 1990 Jan; 33(1):7-11

Use of Nd-Yag laser ablation in colorectal obstruction and palliation in high-risk patients. Walfisch S, et al. **Dis Colon Rectum** 1989 Dec;32(12):1060-4

[Familial colonic cancer (Lynch's syndrome) and bile duct cancer. Study of 2 cases] Vilotte J, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1072-4 (Eng. Abstr.) (Fre)

[Evaluation of intraperitoneal cancer chemotherapy using an implantable reservoir in patients with peritonitis carcinomatosa] Tsuji Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1607-11 (Eng. Abstr.) (Jpn)

DIAGNOSIS

A cost analysis of screening methodology for family members of colorectal cancer patients. Rozen P, et al. **Am J Gastroenterol** 1989 Dec;84(12):1548-51

Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells. McGowan PF, et al. **Am J Surg** 1990 Jan;159(1):172-6; discussion 176-7

Evaluation of the occult blood test in screening for colorectal neoplasms. A prospective study using flexible endoscopy. Reilly JM, et al. **Am Surg** 1990 Mar;56(3):119-23

Early diagnosis in colorectal cancer still no benefit? Ratcliffe R, et al. **Ann Chir** 1989;43(7):570-4

Hemoccult screening and colorectal neoplasms [letter; comment] **Ann Intern Med** 1990 Jun 1;112(11):880-1 Comment on: Ann Intern Med 1990 Mar 1;112(5):328-33.

Hemoccult screening in detecting colorectal neoplasm: sensitivity, specificity, and predictive value. Long-term follow-up in a large group practice setting [see comments] Allison JE, et al. **Ann Intern Med** 1990 Mar 1;112(5):328-33 Comment in: Ann Intern Med 1990 Jun 1;112(11):880-1.

Screening for colorectal cancer: need for controlled trials [editorial; comment] Bond JH. **Ann Intern Med** 1990 Sep 1;113(5):338-40 Comment on: Ann Intern Med 1990 Sep 1;113(5):373-84.

Screening for colorectal cancer [see comments] Eddy DM. **Ann Intern Med** 1990 Sep 1;113(5):373-84 (39 ref.) Comment in: Ann Intern Med 1990 Sep 1;113(5):338-40.

Colorectal cancer detection in the practice setting. Impact of fecal blood testing [see comments] Ahlquist DA, et al. **Arch Intern Med** 1990 May;150(5):1041-5 Comment in: Arch Intern Med 1990 May;150(5):945-6.

Massive screening for colorectal cancer. A single institution's public commitment. Petrelli NJ, et al. **Arch Surg** 1990 Aug; 125(8):1049-51

The use of tumour markers in clinical practice. Cooke T, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):713-25 (43 ref.)

Rectal endosonography. Hildebrandt U, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):531-41 (23 ref.)

Colonoscopic management of focal and early colorectal carcinoma. Sawada T, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):627-45 (33 ref.)

Comparison of anti-fetal colonic microvillus and anti-CEA antibodies in peroperative radioimmunolocalisation of colorectal cancer. Blair SD, et al. **Br J Cancer** 1990 Jun; 61(6):891-4

Development of an ELISA to detect early local relapse of colorectal cancer. Durrant LG, et al. **Br J Cancer** 1989 Oct;60(4):533-7

Use of MoAb D612 in combination with a panel of MoAb for the immunocytochemical identification of metastases from colon-rectum carcinoma. Mottolese M, et al. **Br J Cancer** 1990 Apr;61(4):626-30

Double contrast barium enema and flexible rectosigmoidoscopy: a reliable diagnostic combination for detection of colorectal neoplasm. Jensen J, et al. **Br J Surg** 1990 Mar;77(3):270-2

Comparison of Coloscreen Self-Test and Haemoccult faecal occult blood tests in the detection of colorectal cancer in symptomatic patients. Pye G, et al. **Br J Surg** 1990 Jun; 77(6):630-1

Role of dietary restriction in Haemoccult screening for colorectal cancer. Thomas WM, et al. **Br J Surg** 1989 Sep; 76(9):976-8

DNA content of rectal scrapings from individuals at low and high risk for the development of colorectal cancer. A feasibility study. Staiano-Coico L, et al. **Cancer** 1989 Dec 15;64(12):2579-84

Localization of hematoporphyrin. Derivative to human colorectal cancer. Wooten RS, et al. **Cancer** 1989 Oct 15; 64(8):1569-76

Presence of villin, a tissue-specific cytoskeletal protein, in sera of patients and an initial clinical evaluation of its value for the diagnosis and follow-up of colorectal cancers. Dudouet B, et al. **Cancer Res** 1990 Jan 15;50(2):438-43

The prospects for mass population screening in colorectal cancer. Hardcastle JD. **Cancer Surv** 1989;8(1):123-38 (45 ref.)

Diagnosis of colorectal carcinoma--is colonoscopy superior to barium enema? Co E, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;45(1):60-3

The clinical significance of a new monoclonal antibody defined antigen CA195 as a tumor marker in colorectal cancer. Shiue JW, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Oct;44(4):223-8

Through the colonoscope--a radiologist's view. Rawlinson J, et al. **Clin Radiol** 1990 Apr;41(4):253-7

Colorectal carcinoma: causes, diagnosis, and prevention. Bedine MS. **Compr Ther** 1990 Jan;16(1):14-8 (12 ref.)

Advances in the detection and treatment of colorectal carcinoma. Curley SA, et al. **Compr Ther** 1990 Jan; 16(1):19-24 (16 ref.)

In-hospital undiscovered colorectal cancers [letter] Avni A, et al. **Dis Colon Rectum** 1990 Sep;33(9):816

Reliability of colonoscopy. Byrd RL, et al. **Dis Colon Rectum** 1989 Dec;32(12):1023-5

Serum sialic acid and carcinoembryonic levels in the detection and monitoring of colorectal cancer. Verazin G, et al. **Dis Colon Rectum** 1990 Feb;33(2):139-42

The value of Haemoccult [letter; comment] Adamsen S. **Endoscopy** 1990 Mar;22(2):90 Comment on: Endoscopy 1989 May;21(3):136-40.

Use of endoscopic ultrasonography for the diagnosis of colorectal tumors. Shimizu S, et al. **Endoscopy** 1990 Jan; 22(1):31-4

Negative Haemoccult test in malignant and premalignant lesions of the colon, validation of the Haemoccult test with total colonoscopy [letter; comment] Windeler J. **Endoscopy** 1990 Mar;22(2):88-9 Comment on: Endoscopy 1989 May;21(3):136-40.

Limitations of combined flexible sigmoidoscopy and double contrast barium enema in patients with rectal bleeding. Hixson LJ, et al. **Eur J Radiol** 1989 Nov;9(4):254-7

Hemoccult test in screening for colorectal cancers [letter; comment] McDonald JW. **Gastroenterology** 1990 Mar; 98(3):806 Comment on: Gastroenterology 1989 Sep;97(3):597-600.

Comparison of serum CA 19-9 and CEA levels in a population at high risk for colorectal cancer. Goldberg EM, et al. **Hybridoma** 1989 Oct;8(5):569-75

The role of CEA, TPA and CA 19-9 in the early detection of recurrent colorectal cancer. Barillari P, et al. **Int J Colorectal Dis** 1989 Dec;4(4):230-3

Colorectal cancer in patients aged less than 40 years. Varma JR, et al. **J Am Board Fam Pract** 1990 Jan-Mar;3(1):54-9 (41 ref.)

Imaging of colorectal carcinoma. Freson M, et al. **J Belge Radiol** 1989 Oct;72(5):389-96

Early diagnosis in colorectal cancer. Still no benefit? Ratcliffe R, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):152-5

Small adenomas detected during fecal occult blood test screening for colorectal cancer. The impact of serendipity [see comments] Ransohoff DF, et al. **JAMA** 1990 Jul 4; 264(1):76-8 Comment in: JAMA 1990 Jul 4;264(1):84-5.

Colonic polyps, occult blood, and chance [editorial; comment] Simon JB. **JAMA** 1990 Jul 4;264(1):84-5 Comment on: JAMA 1990 Jul 4;264(1):76-8.

Detection of increased fecal carcinoembryonic antigen and its characterization as a membrane-bound form in colorectal carcinoma and other gastrointestinal disorders. Sugano K, et al. **Jpn J Cancer Res** 1989 Dec;80(12):1156-60

Early detection of colorectal cancer. Preliminary report on the prospective value of a combined screening method for occult rectal bleeding. Ottó S, et al. **Oncology** 1990; 47(3):209-14

Screening for colorectal cancer. Armitage N, et al. **Practitioner** 1989 Jun 8;233(1470):830, 832-3

HMO versus fee for service practice: a four-year retrospective analysis of colorectal cancer diagnosis and treatment. Is there a difference in quality of care? Vernon SW, et al. **Prog Clin Biol Res** 1990;339:341-50

Imaging of colorectal carcinoma [letter; comment] Charnley RM. **Radiology** 1990 Jan;174(1):283 Comment on: Radiology 1989 Feb;170(2):308-10.

Surveillance colonoscopy after resection for colon carcinoma. Brady PG, et al. **South Med J** 1990 Jul; 83(7):765-8

Carcinoma of the colon and rectum in patients less than 20 years of age. Lewis CT, et al. **South Med J** 1990 Apr; 83(4):383-5 (21 ref.)

Radioimmunoguided surgery in recurrent colorectal cancer: the role of carcinoembryonic antigen, computerized tomography, and physical examination. Sardi A, et al. **South Med J** 1989 Oct;82(10):1235-44

Enzyme immunoassay for occult faecal blood. Cervantes C, et al. **Z Med Lab Diagn** 1989;30(8):431-6

[The immunoscintigraphic diagnosis of the metastases of colorectal cancer by using monoclonal antibodies] Peking A, et al. **Khirurgiia (Sofiia)** 1989;42(6):19-23 (Eng. Abstr.) (Bul)

[Clinical significance of serum CEA determination in the diagnosis of colo-rectal cancer] Jiang R. **Chung Hua Chung Liu Tsa Chih** 1989 Sep;11(5):348-51 (Eng. Abstr.) (Chi)

[[Evaluation of various methods of studying fecal occult blood] Vandenbroucke A, et al. **Acta Gastroenterol Belg** 1989 Jul-Oct;51(4-5):383-90 (54 ref.) (Eng. Abstr.) (Fre)

[The Hemocult test in screening of colo-rectal cancer: sensitivity, specificity, and positive predictive value] Feydy P. **Gastroenterol Clin Biol** 1990;14(3):296-7 (Fre)

[Colonic endoscopic screening and familial antecedent of sporadic rectocolonic cancer. Controlled prospective study] Ink O, et al. **Gastroenterol Clin Biol** 1989 Dec; 13(12):1060-4 (Eng. Abstr.) (Fre)

[Screening in colorectal cancer: soon to be a reality?] Faivre J, et al. **Rev Med Suisse Romande** 1990 Jun;110(6):501-6 (Fre)

[Periodic physical examination: 1989 update. Early detection of colorectal cancer] Goldbloom R, et al. **Union Med Can** 1989 Nov-Dec;118(6):242, 245-8 (Fre)

[The importance of Krypto-Haem in the detection of colorectal carcinoma] Axmann K, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:273-7 (Ger)

[Pre- and postoperative ultrasonic studies in stomach carcinoma and in colonic carcinoma] Allmendinger G, et al. **Schweiz Rundsch Med Prax** 1990 Feb 6;79(6):125-8 (Eng. Abstr.) (Ger)

[Retinol-binding protein, haptoglobin and ceruloplasmin--tumor markers in colorectal cancer?] Putzki H, et al. **Z Gesamte Inn Med** 1990 Jan 15;45(2):50-2 (Eng. Abstr.) (Ger)

[Diagnosis and therapy of metastatic and recurrent colorectal tumors] Köves I, et al. **Orv Hetil** 1990 Mar 18; 131(11):559-62 (39 ref.) (Eng. Abstr.) (Hun)

[Assessment of CEA values in patients with malignant neoplasms] Alkilani M, et al. **Minerva Med** 1989 Aug; 80(8):923-5 (Ita)

[Diagnosis of cancer using lymphocyte electrophoresis (3): Electrophoretic mobility, interleukin 1 and prostaglandin E2 productions of monocytes in peripheral blood of cancer patients] Shimizu M, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):639-43 (Eng. Abstr.) (Jpn)

[Clinical significance of cancer serum index (serum alpha 1 acid glycoprotein to prealbumin ratio) in colorectal cancer: preliminary report] Fujimori M, et al. **Nippon Geka Gakkai Zasshi** 1990 Apr;91(4):533 (Jpn)

[Immunohistochemical studies on the expression of epidermal growth factor (EGF) in human colorectal cancers] Takemura K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1160-7 (Eng. Abstr.) (Jpn)

[Recent advances in diagnosis and treatment of colorectal cancer] Tada M. **Rinsho Byori** 1990 Apr;38(4):403-6 (3 ref.) (Eng. Abstr.) (Jpn)

DIET THERAPY

Basic and clinical investigations of dietary calcium in the prevention of colorectal cancer. Wargovich MJ, et al. **Prev Med** 1989 Sep;18(5):672-9 (55 ref.)

DRUG THERAPY

Randomized multicenter trial of adjuvant intraportal chemotherapy for colorectal cancer (SAKK 40/81). An interim report. Metzger U, et al. **Acta Chir Scand** 1990 Jun-Jul;156(6-7):467-74

A phase II trial of carbetimer for the treatment of colorectal cancer. A trial of the Northern California Oncology Group. Audeh MW, et al. **Am J Clin Oncol** 1990 Aug;13(4):324-6

Intrahepatic 5-FU retreatment of liver metastases of colorectal cancer that were progressive under previous systemic chemotherapy. Hohenberger P, et al. **Am J Clin Oncol** 1989 Oct;12(5):447-52

Low-dose continuous infusion 5-fluorouracil and cisplatin: phase II evaluation in advanced colorectal carcinoma. LoRusso P, et al. **Am J Clin Oncol** 1989 Dec;12(6):486-90 (34 ref.)

Benzylidene-glucose: no effect after all? Tanum G, et al. **Am J Clin Oncol** 1990 Apr;13(2):161-3

A phase I/II trial of 5-fluorouracil and etoposide in metastatic colorectal carcinoma. Zelkowitz RS, et al. **Am J Clin Oncol** 1989 Dec;12(6):491-3

Treatment of advanced colorectal cancer. Bleiberg H. **Anticancer Res** 1989 Jul-Aug;9(4):1013-5 (30 ref.)

Adjuvant therapy for resectable colorectal carcinoma with fluorouracil administered by portal vein infusion. A study of the Mayo Clinic and the North Central Cancer

Treatment Group. Beart RW Jr, et al. **Arch Surg** 1990 Jul; 125(7):897–901

Monitoring of tumor necrosis factor therapy with neopterin. Peters KM, et al. **Arzneimittelforschung** 1990 Apr; 40(4):508–10

Cytotoxic drugs for gastric and colorectal cancer. Cunningham D. **BMJ** 1989 Dec 16;299(6714):1479–80 (22 ref.)

Phase II trials of flavone acetic acid in advanced malignant melanoma and colorectal carcinoma. Kerr DJ, et al. **Br J Cancer** 1989 Jul;60(1):104–6

Oral tegafur in the treatment of gastrointestinal tract cancers: a phase II study. Palmeri S, et al. **Br J Cancer** 1990 Mar; 61(3):475–8

A phase II trial of recombinant tumor necrosis factor in patients with advanced colorectal carcinoma. Kemeny N, et al. **Cancer** 1990 Aug 15;66(4):659–63

Continuous intrahepatic infusion of floxuridine and leucovorin through an implantable pump for the treatment of hepatic metastases from colorectal carcinoma. Kemeny N, et al. **Cancer** 1990 Jun 1;65(11):2446–50

Adjuvant portal liver infusion in colorectal cancer with 5-fluorouracil/heparin versus urokinase versus control. Results of a prospective randomized clinical trial (colorectal adenocarcinoma trial I). Wereldsma JC, et al. **Cancer** 1990 Feb 1;65(3):425–32

A clinical trial of biochemical modulation of 5-fluorouracil with N-phosphonoacetyl-L-aspartate and thymidine in advanced gastric and anaplastic colorectal cancer. Windschitl HE, et al. **Cancer** 1990 Sep 1;66(5):853–6

Levamisole as a therapeutic agent for colorectal carcinoma. Grem JL. **Cancer Cells** 1990 May;2(5):131–7 (50 ref.)

Cancers of the large bowel, pancreas and hepatobiliary tract. Woolley PV 3d, et al. **Cancer Chemother Biol Response Modif** 1988;10:250–64 (89 ref.)

Evaluation of continuous-infusion alpha-difluoromethylornithine therapy for colorectal carcinoma. Ajani JA, et al. **Cancer Chemother Pharmacol** 1990;26(3):223–6

Effect of dipyridamole on fluorodeoxyuridine cytotoxicity in vitro and in cancer patients. Buzaid AC, et al. **Cancer Chemother Pharmacol** 1989;25(2):124–30

Response of human HT-29 colorectal tumor cells to extended exposure to bromodeoxyuridine. Maybaum J, et al. **Cancer Chemother Pharmacol** 1989;25(1):45–50

Phase II study of tallysomycin S10b in patients with advanced colorectal cancer. Nicaise C, et al. **Cancer Chemother Pharmacol** 1990;26(3):221–2

Significant prolongation of disease-free period gained by oral polysaccharide K (PSK) administration after curative surgical operation of colorectal cancer. Torisu M, et al. **Cancer Immunol Immunother** 1990;31(5):261–8

Biochemical modulation of 5-fluorouracil by PALA. O'Dwyer PJ. **Cancer Invest** 1990;8(2):261–2

Phase I trial of 5-fluorouracil and recombinant alpha 2a-interferon in patients with advanced colorectal carcinoma. Wadler S, et al. **Cancer Res** 1990 Apr 1; 50(7):2056–9

Potential and pitfalls of randomized clinical trials in cancer research. Buyse ME. **Cancer Surv** 1989;8(1):91–105

Treatment of metastatic colorectal adenocarcinoma with fluorouracil and high-dose leucovorin: a pilot study. Hsieh RK, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Mar; 43(3):159–64

Consensus panel considers adjuvant therapy for colon and rectal cancer, identifies levamisole—fluorouracil as standard in colon cancer [news] **Clin Pharm** 1990 Jul; 9(7):493, 501–2 (1 ref.)

Endoscopic photodynamic therapy with hematoporphyrin derivative for primary treatment of gastrointestinal neoplasms in inoperable patients. Patrice T, et al. **Dig Dis Sci** 1990 May;35(5):545–52

Weekly high-dose infusion of 5-fluorouracil in advanced colorectal cancer. Diaz-Rubio E, et al. **Eur J Cancer** 1990; 26(6):727–9

Modification of 5-fluorouracil activity by high-dose methotrexate or leucovorin in advanced colorectal carcinoma. Sinnige HA, et al. **Eur J Cancer** 1990; 26(5):625–8

A phase I study of immunostimulation and toxicity in patients with colorectal carcinoma using the immunomodulator 3,6-bis(2-piperidinoethoxy) acridine trihydrochloride (CL 246738). Lennard TW, et al. **Eur J Cancer Clin Oncol** 1989 Nov;25(11):1571–6

Anti-proliferative effects of tumor necrosis factor, gamma interferon and 5-fluorouracil on human colorectal carcinoma cell lines. Schiller JH, et al. **Int J Cancer** 1990 Jul 15;46(1):61–6

Phase II trial of intravenous melphalan for metastatic colorectal carcinoma. A Southwest Oncology Group study. Knight WA 3d, et al. **Invest New Drugs** 1990;8 Suppl 1:S87–9

An evaluation of combination 5-fluorouracil and spirogermanium in the treatment of advanced colorectal carcinoma. McMaster ML, et al. **Invest New Drugs** 1990 Feb;8(1):87–92

VM-26 in colorectal carcinoma: a Southwest Oncology Group study. Oishi N, et al. **Invest New Drugs** 1990 Feb; 8(1):93–5

Phase II study of recombinant human tumor necrosis factor in colorectal carcinoma. Schaadt M, et al. **J Biol Response Mod** 1990 Apr;9(2):247–50

Fluorouracil and leucovorin for metastatic colorectal cancer. Erlichman C. **J Chemother** 1990 Feb;2 Suppl 1:38–40

A phase I–II study on the toxicity and therapeutic efficacy of 5-fluorouracil in combination with leucovorin and cisplatinum in patients with advanced colorectal carcinoma. Palmeri S, et al. **J Chemother** 1990 Feb;2 Suppl 1:28–32

Multimodal biochemical modulation of 5-fluorouracil activity in advanced colorectal cancer with allopurinol, folinic acid and dipyridamol. Tsavaris N, et al. **J Chemother** 1990 Apr;2(2):123–6

A randomized trial of continuous intravenous versus hepatic intraarterial floxuridine in patients with colorectal cancer metastatic to the liver: the Northern California Oncology Group trial. Hohn DC, et al. **J Clin Oncol** 1989 Nov; 7(11):1646–54

Phase II study of biochemical modulation of fluorouracil by low-dose PALA in patients with colorectal cancer. O'Dwyer PJ, et al. **J Clin Oncol** 1990 Sep;8(9):1497–503

Fluorouracil and recombinant alfa-2a-interferon: an active regimen against advanced colorectal carcinoma [see comments] Wadler S, et al. **J Clin Oncol** 1989 Dec; 7(12):1769–75 Comment in: J Clin Oncol 1989 Dec;7(12):1764–5.

Phase I trial of semustine plus weekly fluorouracil and high-dose leucovorin calcium in patients with advanced colorectal cancer. Abbruzzese JL, et al. **J Natl Cancer Inst** 1989 Dec 6;81(23):1840–2

Regional chemotherapy for hepatic metastases from colorectal carcinoma [news] Didolkar MS. **Md Med J** 1989 Oct;38(10):861

Adjuvant chemotherapy improves survival for colorectal cancer patients [news] **Oncology (Williston Park)** 1988 Nov; 2(11):14

Another effective chemotherapy combination for colorectal cancer [news] **Oncology (Williston Park)** 1988 Nov;2(11):68

Sequential high dose methotrexate, 5-fluorouracil and folinic acid does not improve response rates in advanced colorectal cancer. Heim ME, et al. **Onkologie** 1989 Aug; 12(4):161–3

Treatment of metastatic colorectal carcinoma. Recent advances in use of fluorouracil. Treat J, et al. **Postgrad Med** 1989 Nov 1;86(6):81, 84

A study of the pineal hormone melatonin as a second line therapy in metastatic colorectal cancer resistant to fluorouracil plus folates. Barni S, et al. **Tumori** 1990 Feb 28;76(1):58–60

[Adjuvant chemotherapy of colorectal cancer: what can be learned from meta-analysis?] Buyse M, et al. **Bull Cancer (Paris)** 1989;76(9):1021–8 (37 ref.) (Fre)

[Are there indications for adjuvant chemotherapy after excision of colorectal cancer?] Gérard A. **Pathol Biol (Paris)** 1989 Nov;37(9):990 (Fre)

[Intra-arterial and intravenous chemotherapy in the treatment of hepatic metastases of colorectal origin: review of the literature and preliminary results] Mazy V, et al. **Rev Med Liege** 1990 Mar;45(3):105–16 (46 ref.) (Fre)

[Following curative resection of colorectal cancer, portal chemotherapy especially benefits non-transfused patients] Harder F, et al. **Chirurg** 1990 Apr;61(4):280–5 (Eng. Abstr.) (Ger)

[Initial results of adjuvant portal liver infusion following radical surgery of colorectal cancer (Swiss Study Group for Epidemiologic and Clinical Cancer Research Study 40/81)] Metzger U, et al. **Helv Chir Acta** 1989 Dec; 56(4):455–60 (Eng. Abstr.) (Ger)

[Primary and metastatic liver tumors—evaluation of tumor regression and response with regional cytostatic drug therapy by sonography and fine needle puncture histology] Krakamp B, et al. **Leber Magen Darm** 1990 May; 20(3):138–44 (Eng. Abstr.) (Ger)

[Chemotherapy of colorectal cancer] Heike M, et al. **Z Gastroenterol** 1989 Sep;27(9):459–64 (56 ref.) (Eng. Abstr.) (Ger)

[Antitumor activities of ME 2303 on human gastrointestinal cancer xenografted to nude mice] Fujita F, et al. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1143–50 (Eng. Abstr.) (Jpn)

[A study on preoperative administration of doxifluridine in carcinoma of the colon and rectum] Sakatoku M, et al. **Gan To Kagaku Ryoho** 1990 May;17(5):1039–43 (Eng. Abstr.) (Jpn)

[The relation between serum carcinoembryonic antigen (CEA) and response to chemotherapy in patients with advanced colorectal cancer] Shimano T, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):423–8 (Eng. Abstr.) (Jpn)

[Perioperative adjuvant chemotherapy in the treatment of lymph node metastases of colorectal cancer] Kojima S. **Nippon Geka Gakkai Zasshi** 1989 May;90(5):686–94 (Eng. Abstr.) (Jpn)

[Advances in the treatment of advanced colorectal cancer] Díaz-Rubio E. **Rev Clin Esp** 1990 Apr;186(6):292–300 (126 ref.) (Spa)

ECONOMICS

Management of colorectal cancer in Medicare health maintenance organizations [see comments] Retchin SM, et al. **J Gen Intern Med** 1990 Mar-Apr;5(2):110–4 Comment in: J Gen Intern Med 1990 Mar-Apr;5(2):178–9.

ENZYMOLOGY

Properties of ornithine decarboxylase in human colorectal adenocarcinomas. Hietala OA, et al. **Cancer Res** 1990 Apr 1;50(7):2088–94

Expression of UDP-GalNAc:NeuAc alpha 2,3Gal beta-R beta 1,4(GalNAc to Gal) N-acetylgalactosaminyltransferase involved in the synthesis of Sda antigen in human large intestine and colorectal carcinomas. Malagolini N, et al. **Cancer Res** 1989 Dec 1;49(23):6466–70

Casein kinase II is elevated in solid human tumours and rapidly proliferating non-neoplastic tissue. Münstermann U, et al. **Eur J Biochem** 1990 Apr 30;189(2):251–7

Correlation between collagenolytic activity and grade of histological differentiation in colorectal tumors. van der Stappen JW, et al. **Int J Cancer** 1990 Jun 15;45(6):1071–8

Significance of alkaline phosphatase isozymes in the monitoring of patients with colorectal carcinoma. Harmenberg U, et al. **Tumour Biol** 1989;10(5):225–31

EPIDEMIOLOGY

Re: "The relations of alcoholic beverage use to colon and rectal cancer" [letter] Paganini-Hill A, et al. **Am J Epidemiol** 1990 Aug;132(2):394

Screening for colorectal cancer [letter] Schulman K. **Ann Intern Med** 1990 Aug 15;113(4):333–4

Risk for colorectal adenocarcinoma in pernicious anemia. A population-based cohort study [see comments] Talley NJ, et al. **Ann Intern Med** 1989 Nov 1;111(9):738–42 Comment in: Ann Intern Med 1990 Apr 15;112(8):630–1.

Oral contraceptive use does not protect against large bowel cancer. Kune GA, et al. **Contraception** 1990 Jan;41(1):19–25

Gastrointestinal cancer among cement workers. A case-referent study. Jakobsson K, et al. **Int Arch Occup Environ Health** 1990;62(4):337–40

A population-based case-control study of colorectal cancer in Majorca. I. Dietary factors. Benito E, et al. **Int J Cancer** 1990 Jan 15;45(1):69–76

Aromatic amine acetyltransferase as a marker for colorectal cancer: environmental and demographic associations. Wohlleb JC, et al. **Int J Cancer** 1990 Jul 15;46(1):22–30

Industrial risk factors for colorectal cancer. Lashner BA, et al. **Int J Health Serv** 1990;20(3):459–83 (143 ref.)

Colorectal cancer in young patients. Barillari P, et al. **Int Surg** 1989 Oct-Dec;74(4):240–3

Epidemiological evidence for distinguishing subsites of colorectal cancer. Faivre J, et al. **J Epidemiol Community Health** 1989 Dec;43(4):356–61

Sex and race are risk factors for colorectal cancer within reach of the sigmoidoscope. Hahn DL. **J Fam Pract** 1990 Apr;30(4):409–16

Assessment of colorectal cancer incidence among polypropylene pilot plant employees. Acquavella JF, et al. **J Occup Med** 1990 Feb;32(2):127–30

From the Centers for Disease Control. Trends in colorectal cancer incidence—United States, 1973–1986. **JAMA** 1989 Nov 17;262(19):2664, 2666

Trends in colorectal cancer incidence—United States, 1973–1986. **MMWR** 1989 Oct 27;38(42):728–31

Epidemiologic studies of fecal mutagenicity, cooked meat ingestion, and risk of colorectal cancer. Schiffman MH, et al. **Prog Clin Biol Res** 1990;340E:205–14

Time trends and international geographic variations related to diet and cancer. Zaridze DG. **Prog Clin Biol Res** 1990; 346:21–34 (15 ref.)

Colorectal cancer in young blacks. An epidemic in Gazankulu? Skalsky J, et al. **S Afr Med J** 1989 Dec 2; 76(11):602–4

Colorectal cancer in blacks [letter] van der Merwe CF. **S Afr Med J** 1990 Mar 3;77(5):267

The benefit of colonoscopy. Brenna E, et al. **Scand J Gastroenterol** 1990 Jan;25(1):81–8

Screening for hereditary colorectal carcinoma. Järvinen HJ, et al. **Scand J Gastroenterol** 1989 Dec;24(10):1153–8 (43 ref.)

Cancer risk in ulcerative colitis. Farmer RG. **Scand J Gastroenterol Suppl** 1989;170:75–7; discussion 81–2

Cancer in inflammatory bowel disease. Gyde SN. **Scand J Gastroenterol Suppl** 1989;170:79–80; discussion 79–80

Risk of cancer in inflammatory bowel disease: why are the results in the reviewed literature so varied? Hordijk ML, et al. **Scand J Gastroenterol Suppl** 1989;170:70–4; discussion 81–2 (22 ref.)

Colorectal cancer in young black patients. Skalsky JA. **Trop Doct** 1989 Oct;19(4):185

Colorectal cancer in tropics [editorial] Kaushik SP. **Trop Gastroenterol** 1989 Oct-Dec;10(4):191–3

Six-year results of annual colonoscopy after resection of colorectal cancer. Juhl G, et al. **World J Surg** 1990 Mar-Apr;14(2):255–60; discussion 260–1

[Preliminary results of a mass screening program for colorectal cancer] Bedenne L, et al. **Gastroenterol Clin Biol** 1990;14(2):140–5 (Eng. Abstr.) (Fre)

[Trends in the incidence of colorectal cancer at the Department of Côte-d'Or between 1976 and 1985] Pillon D, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):860–4 (Eng. Abstr.) (Fre)

[Importance of the definition of urban zones in the study of cancer risk factors] Pottier D, et al.

Rev Epidemiol Sante Publique 1989;37(4):391-5 (Eng. Abstr.) (Fre)

[Descriptive epidemiology of malignant tumors of the colon and rectum] La Rosa F, et al. Ann Ig 1989 Sep-Oct; 1(5):899-922 (Eng. Abstr.) (Ita)

[An epidemiological study on relationship between life style and colorectal cancer] Fujiyoshi T, et al. Gan No Rinsho 1990 Feb;Spec No:334-43 (Eng. Abstr.) (Jpn)

[Colorectal cancer in patients younger than 40 years of age] Kudriashov VK, et al. Vopr Onkol 1990;36(4):488-9 (Rus)

[Dynamics of occurrence and mortality in colorectal carcinoma in the community around Osijek] Ebling Z, et al. Acta Med Iugosl 1989;43(5):315-25 (Eng. Abstr.) (Scr)

ETIOLOGY

Colorectal carcinogenesis. Payne JE. Aust N Z J Surg 1990 Jan;60(1):11-8 (84 ref.)

Aetiology of colorectal cancer: current concepts. Hill MJ. Baillieres Clin Gastroenterol 1989 Jul;3(3):567-92 (57 ref.)

Colorectal cancer and cholecystectomy [letter] Bundred NJ. Br J Surg 1989 Oct;76(10):1099

Risk assessment of diet in a community-based study. Chang HJ, et al. Chung Hua I Hsueh Tsa Chih 1989 Jul;44(1):15-8

A prospective cohort study on the development of colorectal cancer after gastrectomy. Mizusawa K, et al. Dis Colon Rectum 1990 Apr;33(4):298-301

Free radical generating mechanisms in the colon: their role in the induction and promotion of colorectal cancer? Blakeborough MH, et al. Free Radic Res Commun 1989; 6(6):359-67

Asbestos and colorectal cancer. Weiss W. Gastroenterology 1990 Sep;99(3):876-84 (54 ref.)

Precancer and cancer in extensive ulcerative colitis: findings among 401 patients over 22 years. Lennard-Jones JE, et al. Gut 1990 Jul;31(7):800-6

Development of colon cancer after liver transplantation for primary sclerosing cholangitis associated with ulcerative colitis. Higashi H, et al. Hepatology 1990 Mar;11(3):477-80

Cholecystectomy and colorectal cancer: an improbable correlation. Li Destri G, et al. Ital J Surg Sci 1989; 19(4):355-9

An international search for causative factors of colorectal cancer [editorial] Nomura A. J Natl Cancer Inst 1990 Jun 6;82(11):894-5

Diet, physical activity, and colorectal cancer among Chinese in North America and China. Whittemore AS, et al. J Natl Cancer Inst 1990 Jun 6;82(11):915-26

Colorectal carcinoma in patients under the age of 30 years: a review of 11 cases [letter; comment] Loefler IJ. J R Coll Surg Edinb 1989 Jun;34(3):169 Comment on: J R Coll Surg Edinb 1988 Oct;33(5):277-9.

Diet and large bowel cancer. Bingham SA. J R Soc Med 1990 Jul;83(7):420-2 (50 ref.)

A case-control study of male colorectal cancer in Aichi Prefecture, Japan: with special reference to occupational activity level, drinking habits and family history. Kato I, et al. Jpn J Cancer Res 1990 Feb;81(2):115-21

Cancer in inflammatory bowel disease. Greenstein AJ, et al. Jpn J Surg 1989 Nov;19(6):633-44 (95 ref.)

The value of mucin histochemistry, autoradiography and analysis of cellular DNA content for cancer surveillance in patients with ulcerative colitis. Suzuki H, et al. Jpn J Surg 1989 Jul;19(4):387-91 (28 ref.)

Increased risk of large-bowel cancer in Crohn's disease with colonic involvement. Ekbom A, et al. Lancet 1990 Aug 11;336(8711):357-9

Bile flow and colon cancer. Hill MJ. Mutat Res 1990 May; 238(3):313-20 (47 ref.)

Hypotheses for the etiology of colorectal cancer—an overview. Cheah PY. Nutr Cancer 1990;14(1):5-13 (101 ref.)

Body weight and physical activity as predictors of colorectal cancer risk. Kune GA, et al. Nutr Cancer 1990;13(1-2):9-17

Dietary sodium and potassium intake and colorectal cancer risk. Kune GA, et al. Nutr Cancer 1989;12(4):351-9

Effects of dietary fat and protein on DMH-induced tumor development and immune responses. Nutter RL, et al. Nutr Cancer 1990;13(3):141-52

Colorectal cancer: environmental risks linked to specific sub-sites [news] Oncology (Williston Park) 1990 Apr;4(4):85

[Are there certain epidemiologic relations between diet and colorectal cancer] Faivre J. Pathol Biol (Paris) 1989 Nov; 37(9):983 (Fre)

[Epidemiology and etiopathogenesis of colorectal cancer. The role of an western diet] Amato A, et al. Chir Patol Sper 1988 Apr;36(2):69-77 (18 ref.) (Eng. Abstr.) (Ita)

[Development of a cancer of the large bowel following radiotherapy for cancer of the uterine cervix] Tomoda H, et al. Gan No Rinsho 1989 Dec;35(15):1749-52 (Eng. Abstr.) (Jpn)

GENETICS

DNA quantification in colorectal carcinoma using flow and image analysis cytometry. Fausel RE, et al. Anal Quant Cytol Histol 1990 Feb;12(1):21-7

c-myc Oncogene expression in colorectal cancer: its use in prognosis and role in colorectal carcinogenesis. Goh HS, et al. Ann Acad Med Singapore 1990 Mar;19(2):139-41

Prognostic significance of DNA content abnormalities in young patients with colorectal cancer. Heimann TM, et al. Ann Surg 1989 Dec;210(6):792-5

Manifestations of hereditary colorectal cancer. Weber W, et al. Anticancer Res 1990 Mar-Apr;10(2B):543-6

The surgeon and colorectal cancer genetics. Case identification, surveillance, and management strategies. Lynch HT. Arch Surg 1990 Jun;125(6):698-701

Alterations of gene expression in human colorectal cancer. Biological implications. Steele GD Jr, et al. Arch Surg 1990 Apr;125(4):493-7

Familial colorectal cancer and familial adenomatous polyposis. Northover JM, et al. Baillieres Clin Gastroenterol 1989 Jul;3(3):593-613 (98 ref.)

Identification of a human ribosomal protein mRNA with increased expression in colorectal tumours. Chester KA, et al. Biochim Biophys Acta 1989 Dec 22;1009(3):297-300

Screening and genetic counselling for relatives of patients with colorectal cancer in a family cancer clinic. Houlston RS, et al. BMJ 1990 Aug 18-25;301(6748):366-8

Molecular genetics of colorectal carcinoma. Kerr IB. BMJ 1989 Sep 9;299(6700):637-8 (40 ref.)

Inheritance of colorectal cancer susceptibility [comment] Dunlop MG. Br J Surg 1990 Mar;77(3):245 Comment on: Br J Surg 1990 Mar;77(3):273-6.

Prognostic value of nucleolar organizer regions and ploidy values in advanced colorectal cancer. Moran K, et al. Br J Surg 1989 Nov;76(11):1152-5

Prospective and retrospective analysis of colonoscopy findings in patients with a history of colorectal carcinoma in first-degree relatives. Brzezinski W, et al. Can J Surg 1990 Aug;33(4):314-6

Abnormal DNA ploidy and proliferative patterns in superficial colonic epithelium adjacent to colorectal cancer. Ngoi SS, et al. Cancer 1990 Sep 1;66(5):953-9

K-ras activation in colorectal tumors from patients with familial polyposis coli. Sasaki M, et al. Cancer 1990 Jun 1;65(11):2576-9

Absence of detectable deletions in the mitochondrial genome of human colon tumors. Heerdt BG, et al. Cancer Commun 1990;2(3):109-11

Cytogenetics of colorectal adenocarcinomas. Muleris M, et al. Cancer Genet Cytogenet 1990 Jun;46(2):143-56

Cytogenetic and molecular approaches of polyploidization in colorectal adenocarcinomas. Muleris M, et al. Cancer Genet Cytogenet 1990 Jan;44(1):107-18

Chromosome studies in eleven colorectal tumors. Yaseen NY, et al. Cancer Genet Cytogenet 1990 Jan;44(1):83-97

c-Ha-ras-1 oncogene-induced differentiation and natural killer cell resistance in a human colorectal carcinoma cell line. Bagli DJ, et al. Cancer Res 1990 Apr 15;50(8):2518-23

Two chromosomal locations for human ornithine decarboxylase gene sequences and elevated expression in colorectal neoplasia. Radford DM, et al. Cancer Res 1990 Oct 1;50(19):6146-53

Inherited disorders associated with colorectal cancer. Murday V, et al. Cancer Surv 1989;8(1):139-57 (65 ref.)

A genetic model for colorectal tumorigenesis. Fearon ER, et al. Cell 1990 Jun 1;61(5):759-67 (77 ref.)

Heredity and colorectal cancer. A prospective, community-based, endoscopic study. Orrom WJ, et al. Dis Colon Rectum 1990 Jun;33(6):490-3

Inherited susceptibility to colorectal cancer. Burt RW. Hosp Pract [Off] 1989 Nov 15;24(11):43-51

Tumor progression by DNA flow cytometry in human colorectal cancer. Giaretti W, et al. Int J Cancer 1990 Apr 15;45(4):597-603

Abnormal expression and structural modification of the insulin-like growth-factor-II gene in human colorectal tumors. Lambert S, et al. Int J Cancer 1990 Sep 15; 46(3):405-10

Preservation of chromosome and DNA characteristics of human colorectal adenocarcinomas after passage in nude mice. Lefrançois D, et al. Int J Cancer 1989 Nov 15; 44(5):871-8

K-ras mutations (codon 12) are not involved in down-regulation of MHC class-I genes in colon carcinomas. Oliva MR, et al. Int J Cancer 1990 Sep 15; 46(3):426-31

Simultaneous monitoring of P53 protein and DNA content of colorectal adenocarcinomas by flow cytometry. Remvikos Y, et al. Int J Cancer 1990 Mar 15;45(3):450-6

c-myc overexpression is a tumor-specific phenomenon in a subset of human colorectal carcinomas. Viel A, et al. J Cancer Res Clin Oncol 1990;116(3):288-94

Increased expression of the retinoblastoma gene in human colorectal carcinomas relative to normal colonic mucosa. Gope R, et al. J Natl Cancer Inst 1990 Feb 21;82(4):310-4

Chemosensitivity patterns and expression of human multidrug resistance-associated MDR1 gene by human gastric and colorectal carcinoma cell lines. Park JG, et al. J Natl Cancer Inst 1990 Feb 7;82(3):193-8

Changes in the DNA ploidy patterns of human colorectal carcinomas, subsequent to culture or xenografting. Foster HM, et al. J Surg Oncol 1990 Sep;45(1):4-9

Genes and carcinogens [letter; comment] Spigelman AD, et al. Lancet 1989 Nov 18;2(8673):1210 Comment on: Lancet 1989 Oct 7;2(8667):840-2.

Telomere reduction in human colorectal carcinoma and with ageing. Hastie ND, et al. Nature 1990 Aug 30; 346(6287):866-8

Molecular genetics. Colorectal cancer genes [news] Solomon E. Nature 1990 Feb 1;343(6257):412-4

High frequency of APC loss in sporadic colorectal carcinoma due to breaks clustered in 5q21-22. Ashton-Rickardt PG, et al. Oncogene 1989 Oct;4(10):1169-74

DNA flow cytometry of endoscopically examined colorectal adenocarcinomas. Giaretti W, et al. Pathol Res Pract 1989 Nov;185(5):589-93

Alteration and enhanced expression of the c-myc oncogene in human colorectal carcinomas. Matsumura T, et al. Pathol Res Pract 1990 Apr;186(2):205-11

Association between tumor DNA aneuploidy and in vitro tetraploidy of skin fibroblasts in patients with colorectal neoplasms. Svendsen LB, et al. Scand J Gastroenterol 1989 Aug;24(6):755-60

Identification of a chromosome 18q gene that is altered in colorectal cancers. Fearon ER, et al. Science 1990 Jan 5; 247(4938):49-56

Identifying tumor suppressor genes in human colorectal cancer. Stanbridge EJ. Science 1990 Jan 5;247(4938):12-3 (17 ref.)

Flow cytometry and prognostic implications in patients with solid tumors. Williams NN, et al. Surg Gynecol Obstet 1990 Sep;171(3):257-66 (107 ref.)

[Cytogenetic study on a human colorectal carcinoma cell line (HR-8348)] Li SD. Chung Hua Chung Liu Tsa Chih 1989 Nov;11(6):410-2 (Eng. Abstr.) (Chi)

[A joint study of mutation of the Ki-ras oncogene and overexpression of the Tp53 oncogene in colorectal cancer] Laurent-Puig P, et al. Gastroenterol Clin Biol 1990; 14(4):347-51 (Eng. Abstr.) (Fre)

[Genetic factors in colorectal cancer] Dutrillaux B. Pathol Biol (Paris) 1989 Nov;37(9):981-2 (Fre)

[Ras p-21 expression in colorectal neoplasia: preliminary report] Ishijima N, et al. Nippon Geka Gakkai Zasshi 1989 Jul;90(7):1128 (Jpn)

IMMUNOLOGY

Carcinoembryonic antigen enhances metastatic potential of human colorectal carcinoma. Hostetter RB, et al. Arch Surg 1990 Mar;125(3):300-4

Value of tissue carcinoembryonic antigen in patients with colorectal carcinoma. Suwanagool P, et al. Asian Pac J Allergy Immunol 1990 Jun;8(1):33-7

Enhanced recognition of human colorectal tumour cells using combinations of monoclonal antibodies. Durrant LG, et al. Br J Cancer 1989 Dec;60(6):855-60

Tumour-associated proliferative responses in vitro of regional lymph nodes draining solid cancers in man. Mainou-Fowler T, et al. Cancer Immunol Immunother 1989;30(5):300-6

Increased expression of a putative adenoma-associated antigen in pre-colonoscopic effluent of patients with colorectal cancer. Tobi M, et al. Cancer Lett 1990 May 15;51(1):21-5

Increased expression of sialyl-dimeric LeX antigen in liver metastases of human colorectal carcinoma. Hoff SD, et al. Cancer Res 1989 Dec 15;49(24 Pt 1):6883-8

Enhanced tumor binding using immunohistochemical analyses by second generation anti-tumor-associated glycoprotein 72 monoclonal antibodies versus monoclonal antibody B72.3 in human tissue. Molinolo A, et al. Cancer Res 1990 Feb 15;50(4):1291-8

Comparison of tumor targeting in nude mice by murine monoclonal antibodies directed against different human colorectal cancer antigens. Sharkey RM, et al. Cancer Res 1990 Feb 1;50(3 Suppl):828s-834s

Tumour markers: from carcinoembryonic antigen to products of hybridoma technology. Begent R, et al. Cancer Surv 1989;8(1):107-21 (68 ref.)

T-cell subpopulations and colorectal cancer [comment] Ferrara A, et al. Dis Colon Rectum 1990 May;33(5):367-9 Comment on: Dis Colon Rectum 1990 Apr;33(4):302-4.

Immunologic conditions and infectious complications in colon and rectal surgery for neoplasms [see comments] Fragapane P, et al. Dis Colon Rectum 1990 Apr;33(4):302-4 Comment in: Dis Colon Rectum 1990 May;33(5):367-9.

Class I and II HLA antigen distribution in normal mucosa, adenoma and colon carcinoma: relation with malignancy and invasiveness. Gutierrez J, et al. Exp Clin Immunogenet 1987;4(3):144-52

Contents of tissue CEA and CA19-9 in colonic polyp and colorectal cancer, and their clinical significance. Imamura Y, et al. Gastroenterol Jpn 1990 Apr;25(2):186-92

Time course of changes in phenotypes of cultured tumor-infiltrating lymphocytes isolated from human colorectal cancer. Shimazaki M, et al. Gastroenterol Jpn 1990 Apr;25(2):180-5

Circulating antibodies against c-myc oncogene product in sera of colorectal cancer patients. Ben-Mahrez K, et al. Int J Cancer 1990 Jul 15;46(1):35-8

Rat monoclonal antibodies produced against rat colorectal adenocarcinomas define tumor- and colon-associated, auto-immunogenic antigens. Brodin NT, et al. Int J Cancer 1990 May 15;45(5):902-10

O-linked mucin-type glycoproteins in normal and malignant colon mucosa: lack of T-antigen expression and accumulation of Tn and sialosyl-Tn antigens in carcinomas. Orntoft TF, et al. Int J Cancer 1990 Apr 15;45(4):666-72

Prognostic factors in colorectal carcinoma: significance of peripheral T lymphocytes. Yamaguchi K, et al.

Int Surg 1989 Oct-Dec;74(4):232-9
Tumor markers in colorectal cancer. de Thibault de Boesinghe L. J Belge Radiol 1989 Oct;72(5):415-7
D-14 monoclonal antibody to carcinoembryonic antigen: immunohistochemical analysis of formalin-fixed, paraffin-embedded human colorectal carcinoma, tumors of non-colorectal origin and normal tissues. Pavelic ZP, et al. J Cancer Res Clin Oncol 1990;116(1):51-6
Toxicity, immunogenicity, and tumor radioimmunodetecting ability of two human monoclonal antibodies in patients with metastatic colorectal carcinoma. Steis RG, et al. J Clin Oncol 1990 Mar;8(3):476-90
Carcinoembryonic antigen as a selective enhancer of colorectal cancer metastasis. Hostetter RB, et al. J Natl Cancer Inst 1990 Mar 7;82(5):380-5
Detection of the tumor-associated glycoprotein antigen (TAG-72) in premalignant lesions of the colon. Wolf BC, et al. J Natl Cancer Inst 1989 Dec 20;81(24):1913-7
Immunoreactivity of patient with colorectal cancer metastasis after immunisation with anti-idiotypes [letter] Loibner H, et al. Lancet 1990 Jan 20;335(8682):171
Variation of HLA-ABC surface antigen expression on adenocarcinoma of the colon in correlation with the degree of differentiation. Eyal A, et al. Nat Immun Cell Growth Regul 1990;9(3):222-7
Alterations in monoclonal antibody affinity and antigenic receptor site expression on mycoplasma-infected human colorectal cancer cells. Oredipe OA, et al. Proc Soc Exp Biol Med 1990 Sep;194(4):301-7
Proliferation, interleukin-2 production and receptor expression in peripheral blood mononuclear cells from colorectal cancer patients. Chang KJ, et al. Taiwan I Hsueh Hui Tsa Chih 1990 Mar;89(3):205-13
HLA antigens on colorectal adenoma and cancer cells. Horie Y, et al. Tohoku J Exp Med 1990 Apr;160(4):311-22
[The postoperative changes in the cellular immune response in vivo in patients with colorectal carcinoma after preoperative acute normovolemic hemodilution--a randomized, prospective and comparative study] Nikolov K. Khirurgiia (Sofiia) 1990;43(1):23-30 (Eng. Abstr.) (Bul)
[The expression of Tn and S-Tn antigens in cancer and pre-malignant lesion of colorectal tissues by enzyme immunohistochemical method] Yuan M. Chung-hua Ping Li Hsueh Tsa Chih 1989 Sep;18(3):211-3 (Eng. Abstr.) (Chi)
[The immune resistance of patients with colorectal cancer] Nagy A. Arch Geschwulstforsch 1989;59(4):265-70 (Eng. Abstr.) (Ger)
[CEA levels of draining venous blood and draining-peripheral CEA gradient in colorectal cancer patients: correlation with postoperative survival] Deguchi H, et al. Nippon Geka Gakkai Zasshi 1990 May;91(5):575-80 (Eng. Abstr.) (Jpn)
[An immunohistological study of local immunity of colorectal cancer] Kikuchi S. Nippon Geka Gakkai Zasshi 1989 Aug; 90(8):1213-25 (Eng. Abstr.) (Jpn)
[Effect of anti-CD3 monoclonal antibody OKT3 on LAK cells generated from TIL of colorectal cancer: preliminary report] Ohta T, et al. Nippon Geka Gakkai Zasshi 1990 Jun;91(6):788 (Jpn)
[Value of SLX and CA19-9 in the serum and tissue in colorectal cancer including the relation to Lewis blood type] Igarashi K. Nippon Shokakibyo Gakkai Zasshi 1989 Oct;86(10):2394-403 (Eng. Abstr.) (Jpn)

METABOLISM

Regulation of carcinoembryonic antigen expression in different human colorectal tumor cells by interferon-gamma. Guadagni F, et al. Cancer Res 1990 Oct 1;50(19):6248-55
Relationship of hepatic glucose production to growth hormone and severity of malnutrition in a population with colorectal carcinoma. Tayek JA, et al. Cancer Res 1990 Apr 1;50(7):2119-22
Expression of A-type PDGF receptor in cytoplasm of tumor cell lines synthesizing PDGF. Rakowicz-Szulczynska EM, et al. Exp Mol Pathol 1989 Oct;51(2):171-8
Changes in glycosaminoglycan synthesis and in heparan sulfate deposition in human colorectal adenocarcinomas. Bouziges F, et al. Int J Cancer 1990 Aug 15;46(2):189-97
In vitro activity of 4'-iodo-4'-deoxydoxorubicin on human colo-rectal cancer as measured by a short-term antimetabolic assay. Villa R, et al. Invest New Drugs 1990 May;8(2):143-4
Detection of a mucin marker for the adenoma-carcinoma sequence inhuman colonic mucosa by monoclonal antibody AM-3. Hanski C, et al. J Clin Pathol 1990 May; 43(5):379-84
In vivo fate of monoclonal antibody B72.3 in patients with colorectal cancer [see comments] Colcher D, et al. J Nucl Med 1990 Jul;31(7):1133-42 Comment in: J Nucl Med 1990 Jul;31(7):1143-6.
In vivo fate of monoclonal antibody B72.3 [comment] Halpern SE. J Nucl Med 1990 Jul;31(7):1143-6 Comment on: J Nucl Med 1990 Jul;31(7):1133-42.
Evidence of 1,25-dihydroxyvitamin D3-receptors in human digestive mucosa and carcinoma tissue biopsies taken at different levels of the digestive tract, in 152 patients. Meggouh F, et al. J Steroid Biochem 1990 Jun; 36(1-2):143-7
Glucose metabolism and colorectal carcinoma. Long CL, et al. Metabolism 1990 May;39(5):494-501
Expression of epidermal growth factor receptor in normal colorectal mucosa, adenoma, and carcinoma. Koretz K, et al. Virchows Arch [A] 1990;416(4):343-9

MICROBIOLOGY

Isolation of Inoue-Melnick virus from human colorectal carcinoma cell lines. Inoue YK, et al. J Med Virol 1989 Nov;29(3):157-9

MORTALITY

Primary colorectal sarcoma. A retrospective review and prognostic factor study of 50 consecutive patients. Meijer S, et al. Arch Surg 1990 Sep;125(9):1163-8
Prospective randomized controlled trial of hepatic arterial embolization or infusion chemotherapy with 5-fluorouracil and degradable starch microspheres for colorectal liver metastases. Hunt TM, et al. Br J Surg 1990 Jul;77(7):779-82
Blood transfusion and prognosis in Dukes' B and C colorectal cancer. Bentzen SM, et al. Eur J Cancer 1990 Apr; 26(4):457-63
Influence of blood transfusions on tumor recurrence and survival rate in colorectal carcinoma. Liewald F, et al. Eur J Cancer 1990 Mar;26(3):327-35
Relationship of symptom duration and survival in patients with colorectal carcinoma. Barillari P, et al. Eur J Surg Oncol 1989 Oct;15(5):441-5
Screening sigmoidoscopy and colorectal cancer mortality [letter; comment] Selby JV, et al. J Gen Intern Med 1990 Mar-Apr;5(2):181 Comment on: J Gen Intern Med 1989 May-Jun;4(3):209-15.
Histopathologic evaluation of survival time in patients with colorectal carcinoma. Adachi Y, et al. J Surg Oncol 1989 Dec;42(4):219-24
Improved survival after pulmonary resection of metastatic colorectal carcinoma. Sauter ER, et al. J Surg Oncol 1990 Mar;43(3):135-8
From the Centers for Disease Control. Chronic disease reports: deaths from colorectal cancer--United States, 1986. JAMA 1989 Nov 17;262(19):2666
Chronic disease reports: deaths from colorectal cancer--United States, 1986. MMWR 1989 Oct 27; 38(42):725-8
Risk factors and survival from colorectal cancer in black patients in Soweto, South Africa. Walker AR, et al. Trop Gastroenterol 1989 Oct-Dec;10(4):220-4
Comparison of deoxyribonucleic acid ploidy and nuclear expressed p62 c-myc oncogene in the prognosis of colorectal cancer. Rowley S, et al. World J Surg 1990 Jul-Aug;14(4):545-50; discussion 551
[Colorectal cancers in young adults: the reasons for poor prognosis] Domergue J, et al. Ann Chir 1989;43(6):439-42 (Eng. Abstr.) (Fre)
[The prognostic relevance of tumor localization in colorectal cancer. A multivariate analysis] Coenen C, et al. Z Gastroenterol 1989 Nov;27(11):683-5 (Eng. Abstr.) (Ger)
[Prognostic factors in colorectal cancer] Elorza Orúe JL, et al. Rev Esp Enferm Apar Dig 1989 Dec;76(6 Pt 2):654-9 (Eng. Abstr.) (Spa)
[Blood transfusion worsens the prognosis in colorectal cancer. Preliminary study in a series of 717 cases] Pellicer Franco EM, et al. Rev Esp Enferm Dig 1990 Mar; 77(3):189-92 (Eng. Abstr.) (Spa)

PATHOLOGY

Deoxyribonucleic acid ploidy and cell cycle analysis of colorectal carcinoma by flow cytometry. A prospective study of 137 cases using fresh whole cell suspensions. Hood DL, et al. Am J Clin Pathol 1990 May;93(5):615-20
Prognostic value of the immunocytochemical detection of extramural venous invasion in Dukes' C colorectal adenocarcinomas. A preliminary study. Lapertosa G, et al. Am J Pathol 1989 Nov;135(5):939-45
Mixed hyperplastic adenomatous polyps/serrated adenomas. A distinct form of colorectal neoplasia. Longacre TA, et al. Am J Surg Pathol 1990 Jun;14(6):524-37 (36 ref.)
Carcinoembryonic antigen directed multiple surgical procedures for recurrent colon cancer confined to the liver. Sardi A, et al. Am Surg 1990 Apr;56(4):255-9
Absolute and relative activities of 4'-iodo-4'-deoxydoxorubicin against human colo-rectal tumors, as evaluated by a short-term in vitro assay. Villa R, et al. Anticancer Res 1990 Jan-Feb;10(1):105-8
Intra-arterial floxuridine vs systemic fluorouracil for hepatic metastases from colorectal cancer. A randomized trial. Martin JK Jr, et al. Arch Surg 1990 Aug;125(8):1022-7
Current perspectives in staging large bowel cancer. Chapuis PH, et al. Aust N Z J Surg 1990 Apr;60(4):261-5
Colorectal carcinoma: histopathological diagnosis and staging. Hermanek P. Baillieres Clin Gastroenterol 1989 Jul; 3(3):511-29 (51 ref.)
Detection of lymph node metastases in colorectal carcinoma before and after fat clearance. Scott KW, et al. Br J Surg 1989 Nov;76(11):1165-7
Prognostic index for the development of liver metastases in patients with colorectal cancer. Taylor I, et al. Br J Surg 1990 May;77(5):499-501
Colorectal adenomas containing invasive carcinoma. Pathologic assessment of lymph node metastatic potential. Coverlizza S, et al. Cancer 1989 Nov 1;64(9):1937-47 (69 ref.)
Detection of occult nodal metastases in patients with colorectal carcinoma. Davidson BR, et al. Cancer 1990 Feb 15;65(4):967-70
Tumor acquisition, propagation, and preservation. The culture of human colorectal cancer. Lewko WM, et al. Cancer 1989 Oct 15;64(8):1600-7
Assessment of cell proliferation in colorectal carcinomas using the monoclonal antibody Ki-67. Correlation with pathohistologic criteria and influence of irradiation. Porschen R, et al. Cancer 1989 Dec 15;64(12):2501-5
Characterization of human colorectal mucosa, polyps, and cancers by means of computerized morphonuclear image analyses. Verhest A, et al. Cancer 1990 May 1;65(9):2047-54
Metastatic potential of human colorectal carcinomas implanted into nude mice: prediction of clinical outcome in patients operated upon for cure. Jessup JM, et al. Cancer Res 1989 Dec 15;49(24 Pt 1):6906-10
Pathological staging--new methods and practical applications. Jass JR. Cancer Surv 1989;8(1):7-26 (83 ref.)
Endobronchial metastases due to colorectal carcinoma. Carlin BW, et al. Chest 1989 Nov;96(5):1110-4
Metastasis to skeletal muscle from colorectal carcinoma. A case report. Lampenfeld ME, et al. Clin Orthop 1990 Jul; (256):193-6
Prognostic factors in colorectal cancer. Jass JR. Curr Top Pathol 1990;81:295-322 (68 ref.)
Clinicopathologic impact of colloid in colorectal carcinoma. Minsky BD. Dis Colon Rectum 1990 Aug;33(8):714-9 (17 ref.)
Transitional mucosa in human colorectal lesions. Mori M, et al. Dis Colon Rectum 1990 Jun;33(6):498-501
Morbidity and mortality of hepatic resection for metastatic colorectal carcinoma. Vetto JT, et al. Dis Colon Rectum 1990 May;33(5):408-13
A study on the effects of estradiol and estramustine on gastrointestinal cell lines. Harrison JD, et al. Eur J Surg Oncol 1990 Apr;16(2):116-20
Resection of liver metastases in colorectal cancer--competitive analysis of treatment results in synchronous versus metachronous metastases. Schlag P, et al. Eur J Surg Oncol 1990 Aug;16(4):360-5
Hepatic arterial infusion (HAI) chemotherapy for liver metastases of colorectal cancer using 5-FU. Schlag P, et al. Eur J Surg Oncol 1990 Apr;16(2):99-104
Prevention of extrahepatic disease during intraarterial floxuridine of colorectal liver metastases by simultaneous systemic 5-fluorouracil treatment? A prospective multicenter study. Lorenz M, et al. Gan To Kagaku Ryoho 1989 Dec;16(12):3662-71
Dynamic CT of hepatic masses using intraarterial enhancement: advantages and pitfalls. Dolenz KB, et al. Gastrointest Radiol 1990 Summer;15(3):241-4
Use of a laser diffraction particle sizer for the measurement of mean diameter of multicellular tumor spheroids. Boothby CD, et al. In Vitro Cell Dev Biol 1989 Oct; 25(10):946-50
The isolation and description of LIF-10: a human tumor cell line derived from a colorectal adenocarcinoma. Huschtscha L, et al. In Vitro Cell Dev Biol 1990 Aug;26(8):743-5
Colorectal cancer in patients 40 years of age and younger. Bossola M, et al. Ital J Surg Sci 1989;19(4):361-7
Effect of steroid hormones on human colorectal adenocarcinoma xenografts, of known steroid-receptor status, in nude mice. Stebbings WS, et al. J Cancer Res Clin Oncol 1989;115(5):439-44
Epithelial tumor cells in bone marrow of patients with colorectal cancer: immunocytochemical detection, phenotypic characterization, and prognostic significance. Schlimok G, et al. J Clin Oncol 1990 May;8(5):831-7
Is there any justification for the routine examination of bowel resection margins in colorectal adenocarcinoma? Cross SS, et al. J Clin Pathol 1989 Oct;42(10):1040-2
Observer reproducibility in grading dysplasia in colorectal adenomas: comparison between two different grading systems. Fenger C, et al. J Clin Pathol 1990 Apr; 43(4):320-4
Experimental colorectal liver metastases. Influence of sex, immunological status and liver regeneration. Panis Y, et al. J Hepatol 1990 Jul;11(1):53-7
Characteristics of invasive and noninvasive human colorectal adenocarcinoma cells. Aznavoorian S, et al. J Natl Cancer Inst 1990 Sep 19;82(18):1485-92
Characterization of four newly established human colorectal adenocarcinoma cell lines from Chinese patients. Cheng JY, et al. J Surg Oncol 1990 Aug;44(4):260-7
Tumor recurrence and options for further treatment after resection of liver metastases in patients with colorectal cancer. Hohenberger P, et al. J Surg Oncol 1990 Aug; 44(4):245-51
Immunohistochemical analysis of the relationship between CEA localization and mononuclear cell infiltration in human colorectal carcinoma. Tanaka K, et al. J Surg Oncol 1990 Feb;43(2):106-16
Clinicopathologic characteristics in colorectal adenocarcinoma and their relationship to survival. Juang YF, et al. Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1990 Jan;6(1):45-57
Crohn's-like lymphoid reaction and colorectal carcinoma: a potential histologic prognosticator. Graham DM, et al. Mod Pathol 1990 May;3(3):332-5
Histologic parameters and DNA ploidy as predictors of

survival in stage B adenocarcinoma of colon and rectum. Robey-Cafferty SS, et al. **Mod Pathol** 1990 May;3(3):261–6

Regional chemotherapy for colorectal cancer metastatic to the liver. Venook AP, et al. **Oncology (Williston Park)** 1988 Mar;2(3):19–26 (27 ref.)

Two programmes for examination of regional lymph nodes in colorectal carcinoma with regard to the new pN classification. Hermanek P, et al. **Pathol Res Pract** 1989 Dec;185(6):867–73

Histological inhomogeneity of colorectal adenocarcinomas. Donhuijsen K, et al. **Zentralbl Allg Pathol** 1989; 135(5):425–36

[Morphometric analysis of colorectal carcinoma and its clinical significance] Zhou WG. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Mar;19(1):61–3 (Eng. Abstr.) **(Chi)**

[In vitro prompt killing by chlorhexidine of human colorectal carcinoma cell lines] Xu SH. **Chung Hua Wai Ko Tsa Chih** 1990 Jan;28(1):40–2, 62 (Eng. Abstr.) **(Chi)**

[Hepatic metastases of colorectal cancer. Which hepatic anatomic elements contraindicate resection?] Launois B. **Ann Chir** 1990;44(3):193–6; discussion 196–201 **(Fre)**

[Early adjuvant intraportal chemotherapy with 5-fluorouracil after hepatic resection of colorectal metastasis: a preliminary clinical and pharmacokinetic study] Seitz JF, et al. **Bull Cancer (Paris)** 1989; 76(10):1127–32 (Eng. Abstr.) **(Fre)**

[Treatment of minor hepatic tumors with ultrasonically guided percutaneous injection of absolute alcohol. Results in 8 patients] Giovannini M, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):974–7 (Eng. Abstr.) **(Fre)**

[150 hepatic resections of malignant tumors. Technical aspects] Elias D, et al. **J Chir (Paris)** 1990 Jan;127(1):27–34 (Eng. Abstr.) **(Fre)**

[Colorectal neoplasms. 3. Staging classification by the TNM system, 4th edition] Hermanek P. **Fortschr Med** 1989 Dec 10;107(35):760–2 **(Ger)**

[Steroid hormone receptor status of colorectal cancers] Mentges B, et al. **Onkologie** 1990 Feb;13(1):21–3 (Eng. Abstr.) **(Ger)**

[Precancerous and early stage colorectal carcinoma: clinico-pathological implications] Gebbers JO, et al. **Schweiz Rundsch Med Prax** 1990 Jan 30;79(5):89–100 (108 ref.) (Eng. Abstr.) **(Ger)**

[Surgical treatment of pulmonary metastases of colorectal tumors] Köves I, et al. **Orv Hetil** 1990 May 20; 131(20):1067–8, 1071–4 (28 ref.) (Eng. Abstr.) **(Hun)**

[Resection of liver metastasis of colo-rectal cancer] Nordlinger B, et al. **G Chir** 1989 Jul-Aug;10(7–8):399–403 (26 ref.) (Eng. Abstr.) **(Ita)**

[Hepatic metastases of colorectal carcinoma. Case reports] Goletti O, et al. **Minerva Chir** 1989 Aug 31; 44(15–16):1803–8 (Eng. Abstr.) **(Ita)**

[Neurotoxicity of intra-arterial cis-platinum (CDDP) in the locoregional treatment of diffuse liver metastasis of carcinoma of the colon and rectum] Gori A, et al. **Minerva Chir** 1990 May 15;45(9):663–8 (Eng. Abstr.) **(Ita)**

[Cellular kinetics and the nuclear ploidy pattern in relation to the gross pathological classification and location of advanced colorectal cancers as analyzed by DNA-RNA cytofluorometry] Hashimoto T, et al. **Gan No Rinsho** 1990 May;36(6):704–10 (Eng. Abstr.) **(Jpn)**

[Relationship between antitumor activity and the inhibition of thymidylate synthase after oral administration of UFT in nude mice bearing human tumor] Fujita M, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):627–32 (Eng. Abstr.) **(Jpn)**

[Management and prognosis of patients with early colorectal cancer] Matsuda T, et al. **Gan To Kagaku Ryoho** 1990 Jan; 17(1):22–30 (Eng. Abstr.) **(Jpn)**

[Mitotic activity of cancer in the colorectum: correlation with histopathologic variables and survival] Kawasaki H, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):837–43 (Eng. Abstr.) **(Jpn)**

[A study of growth and malignancy grading of stomach and colorectal cancers by serial serum carcinoembryonic antigen levels analysis] Umehara Y, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):661–6 (Eng. Abstr.) **(Jpn)**

[Clinical pathological studies on colo-rectal cancer with a diameter of 1.5 cm or less] Kan T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1254–9 (Eng. Abstr.) **(Jpn)**

[Advances of immunohistochemistry and its application to histopathology—studies on liver metastasis of colorectal carcinoma—venous basement membrane laminin] Shimokawa K, et al. **Rinsho Byori** 1990 Feb;38(2):115–23 (Eng. Abstr.) **(Jpn)**

[Tissue carcinoembryonic antigen: a screening test for increased cell proliferation?] Rosandić-Pilaš M, et al. **Lijec Vjesn** 1989 Aug;111(8):249–53 (Eng. Abstr.) **(Ser)**

PHYSIOPATHOLOGY

Reproductive and menstrual factors and risk of colorectal cancer. Negri E, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7158–61

Hypoxia enhances the lethality of mitomycin C and carboquone against human malignant tumor cells in vitro. Kusumoto T, et al. **Eur Surg Res** 1989;21(3–4):224–31

Colony-forming ability in vitro and clonology of colorectal cancer. Tanigawa N, et al. **Jpn J Cancer Res** 1990 Jun-Jul; 81(6–7):687–91

[The pH and acidity of feces in colorectal neoplasms] Bech K, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):161–2 (Eng. Abstr.) **(Dan)**

[Metastasis and its relation to cell kinetics in human colorectal cancers] Ooyama S, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):677–82 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Screening for colorectal cancer. The U.S. Preventive Services Task Force, Washington, D.C. **Am Fam Physician** 1989 Nov;40(5):119–26 (84 ref.)

Results of a repeat television-advertised mass screening program for colorectal cancer using fecal occult blood tests. McGarrity TJ, et al. **Am J Gastroenterol** 1990 Mar; 85(3):266–70

Faecal occult blood testing for colorectal cancer: luxury or necessity? Agrez M, et al. **Aust N Z J Surg** 1990 Jun; 60(6):451–4

Feasibility of sigmoidoscopic screening for colorectal cancer in the Hunter Region. Agrez MV, et al. **Aust N Z J Surg** 1990 Feb;60(2):87–92

Will colorectal cancer screening be too costly? [editorial] St John DJ. **Aust N Z J Surg** 1990 Jun;60(6):415–7

Screening an asymptomatic population for colorectal cancer. Hardcastle JD, et al. **Baillieres Clin Gastroenterol** 1989 Jul; 3(3):543–66 (94 ref.)

Is screening for colorectal cancer worthwhile? Chamberlain J. **Br J Cancer** 1990 Jul;62(1):1–3

Faecal occult blood screening for colorectal neoplasia: a randomized trial of three days or six days of tests. Thomas WM, et al. **Br J Surg** 1990 Mar;77(3):277–9

Primary prevention of colorectal cancer. The WHO Collaborating Centre for the Prevention of Colorectal Cancer. Shike M, et al. **Bull World Health Organ** 1990; 68(3):377–85 (93 ref.)

International collaboration for the prevention of colorectal cancer. Winawer SJ. **Bull World Health Organ** 1990; 68(3):373–5

Sigmoidoscopy and the periodic health examination [letter; comment] Kandel G. **Can Med Assoc J** 1989 Nov 15; 141(10):1032–4 Comment on: Can Med Assoc J 1989 Aug 1;141(3):209–16.

Colonoscopy or flexible proctosigmoidoscopy [letter] Stephenson BM, et al. **Dis Colon Rectum** 1990 Aug; 33(8):722

Hemoccult test and colorectal cancer [letter] **Gastroenterology** 1990 Aug;99(2):607–9

The impact of an educational workshop on colorectal screening practices. Fang WL, et al. **J Cancer Educ** 1987; 2(1):27–30

Mass screening for colorectal cancer—the Philadelphia experience. Frazier TG, et al. **J Cancer Educ** 1987;2(1):31–3

Screening for colorectal cancer: an annotated bibliography for clinicians and educators—Part I. McPhee SJ, et al. **J Cancer Educ** 1987;2(1):35–49

Screening for colorectal cancer: an annotated bibliography for clinicians and educators—Part II. McPhee SJ, et al. **J Cancer Educ** 1987;2(2):113–27

Assessment of colorectal cancer screening outcomes among workers involved in polypropylene manufacture. Acquavella JF, et al. **J Occup Med** 1989 Sep;31(9):785–91

Compliance with colorectal cancer screening in a high-risk occupational group. Neale AV, et al. **J Occup Med** 1989 Dec;31(12):1007–12

Evaluation of a 'DIY' test for the detection of colorectal cancer. Tate JJ, et al. **J R Soc Med** 1989 Jul;82(7):388–90

Absence of effect of supplemental oral calcium on ornithine decarboxylase (ODC) activity in colonic mucosae of healthy individuals with a family history of colorectal cancer. Love RR, et al. **J Surg Oncol** 1990 Feb;43(2):79–82

The prevention of colorectal cancer in Australia and the advent of registers for familial adenomatous polyposis [editorial; comment] Giles GG. **Med J Aust** 1989 Nov 20; 151(10):546–8 Comment on: Med J Aust 1989 Nov 20;151(10):552–7. Comment on: Med J Aust 1989 Nov 20;151(10):557–8, 560.

Colorectal cancer: implications of mass screening for public health. Woodward A, et al. **Med J Aust** 1990 Jul 16; 153(2):81–2, 85–8 (30 ref.)

Wheat bran diet protects against recurrence of colorectal cancer [news] **Oncology (Williston Park)** 1990 Jul;4(7):139

Knowledge of colorectal cancer and use of screening tests in persons 40–74 years of age. Polednak AP. **Prev Med** 1990 Mar;19(2):213–26

Utilizing television to promote a community colon cancer screening program. Bloch S, et al. **Prog Clin Biol Res** 1990; 339:311–23

The pros and cons of a mass-media colorectal screening program. Cole RE, et al. **Prog Clin Biol Res** 1990; 339:325–30

Evaluation of a colorectal cancer screening program. Ehleben CM, et al. **Prog Clin Biol Res** 1990;339:351–60

The importance of screening methods and familial risk factors in colorectal cancer. Griffiths EK, et al. **Prog Clin Biol Res** 1990;339:331–9

Approaches to colorectal cancer screening and evaluation. Myers RE. **Prog Clin Biol Res** 1990;339:305–9 (21 ref.)

[Acceptability of the Hemoccult test in general medical practice. Results of a pilot study] Archambault F, et al. **Bull Cancer (Paris)** 1989;76(10):1071–5 (Eng. Abstr.) **(Fre)**

[What is involved in the prevention and screening of colorectal cancer?] Bader JP. **Pathol Biol (Paris)** 1989 Nov; 37(9):984–6 **(Fre)**

[Screening for colorectal neoplasms: comparison of Hemdetect and Haemoccult] Hammes PH, et al. **Z Gastroenterol** 1989 Oct;27(10):611–3 (Eng. Abstr.) **(Ger)**

[Screening for colorectal neoplasms] Shani A, et al. **Harefuah** 1990 Jan 15;118(2):66–70 (Eng. Abstr.) **(Heb)**

[A new screening method for colorectal cancer as a replacement for the hemoccult blood test] Sakamoto K, et al. **Gan No Rinsho** 1990 Jul;36(8):865–70 (Eng. Abstr.) **(Jpn)**

[Mass survey for colorectal cancer] Ida T. **Nippon Geka Hokan** 1988 Nov 1;57(6):485–6 **(Jpn)**

[Immunological fecal occult blood test] Uchida K, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:1276–85 **(Jpn)**

[The role of and suitability of the occult fecal blood test in a preventive program for colorectal carcinoma] Ebling Z, et al. **Lijec Vjesn** 1989 Dec;111(12):432–6 (Eng. Abstr.) **(Ser)**

RADIOGRAPHY

The efficacy of preoperative computed tomography in patients with colorectal carcinoma. Fisher KS, et al. **Am Surg** 1990 Jun;56(6):339–42

Radioimmune localization of occult carcinoma. Duda RB, et al. **Arch Surg** 1990 Jul;125(7):866–70

The colon. Gelfand DW. **Curr Opin Radiol** 1989 Jun; 1(1):66–70 (11 ref.)

Lowering death rates from colorectal cancer: challenge for the 1990s. Rice RP. **Radiology** 1990 Aug;176(2):297–301

[Perception errors in detecting advanced colorectal cancers using a double-contrast enema] Grellet J, et al. **J Radiol** 1989 Jun-Jul;70(6–7):399–409 (Eng. Abstr.) **(Fre)**

[The computed tomography of colorectal tumors with water as the contrast medium] Gaa J, et al. **ROFO** 1990 Jun; 152(6):723–6 (Eng. Abstr.) **(Ger)**

[Preoperative angiography of colorectal cancer] Fujita M. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 May 25; 49(5):583–92 (Eng. Abstr.) **(Jpn)**

[Three adult intussusception cases with colorectal cancer; CT diagnosis and its characteristic findings] Miyama H, et al. **Rinsho Hoshasen** 1990 Apr;35(4):509–12 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

99mTc radioimmunoscintigraphy of colorectal cancer. Granowska M, et al. **Br J Cancer Suppl** 1990 Jul;10:30–3

Immunoscintigraphy using a technetium-99m labelled monoclonal anti-CEA antibody in the follow-up of colorectal cancer and other tumours producing CEA. Hertel A, et al. **Br J Cancer Suppl** 1990 Jul;10:34–6

Production of a human monoclonal antibody recognising a determinant on mouse IgG2b from a patient receiving mouse monoclonal antibody for diagnostic imaging. Durrant LG, et al. **Cancer Immunol Immunother** 1990; 31(4):226–30

Immunoscintigraphy of colorectal cancer with an antibody to epithelial membrane antigen (EMA). Yiu CY, et al. **Dis Colon Rectum** 1990 Feb;33(2):122–6

Current status of immunoscintigraphy in colorectal cancer—results of 5 years' clinical experiences. Hölting T, et al. **Eur J Surg Oncol** 1990 Aug;16(4):312–8

A comparison of 131I-labeled antibodies, 2-deoxy-2-[18F]fluoro-D-glucose and 68Ga-EDTA in the imaging of human tumor xenografts in nude mice. Brownell AL, et al. **Int J Rad Appl Instrum [B]** 1990; 17(3):281–6

Imaging with indium111-labeled anticarcinoembryonic antigen monoclonal antibody ZCE-025 of recurrent colorectal or carcinoembryonic antigen-producing cancer in patients with rising serum carcinoembryonic antigen levels and occult metastases. Patt YZ, et al. **J Clin Oncol** 1990 Jul;8(7):1246–54

Clinical value of immunoscintigraphy in colorectal carcinoma patients: a prospective study. Bischof-Delaloye A, et al. **J Nucl Med** 1989 Oct;30(10):1646–56

Immunoscintigraphy of colorectal carcinomas and recurrences with a technetium-99m-labeled monoclonal anti-CEA-antibody (MAB XBW 431/26) [letter] Lind P. **J Nucl Med** 1990 Apr;31(4):535–6

Hepatic perfusion index in the diagnosis of overt metastatic colorectal cancer. Ballantyne KC, et al. **Nucl Med Commun** 1990 Jan;11(1):23–8

Imaging of colorectal cancer using an 111-indium labelled monoclonal antibody. Young H, et al. **Radiogr Today** 1989 Nov;55(630):10–1

Imaging of colorectal carcinoma with radiolabeled antibodies. Goldenberg DM, et al. **Semin Nucl Med** 1989 Oct;19(4):262–81 (100 ref.)

[Does immunoscintigraphy improve early diagnosis of metastatic or recurrent cancer?] Hölting T, et al. **Onkologie** 1989 Aug;12 Suppl 1:20–5 (Eng. Abstr.) **(Ger)**

[Radioimmunodetection of colorectal cancer, using anti-CEA monoclonal antibodies] Murayama H, et al. **Nippon Geka Gakkai Zasshi** 1989 Oct;90(10):1732–41 (Eng.

Abstr.) (Jpn)
[67Ga-scintigraphic finding of colorectal carcinoma; the basis of clinicopathologic viewpoint] Sumi Y, et al. **Rinsho Hoshasen** 1989 Dec;34(13):1563-9 (Eng. Abstr.) (Jpn)

RADIOTHERAPY

The value of radiotherapy for rectal cancer. James RD, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):647-69 (82 ref.)
Estimation of monoclonal antibody-associated 90Y activity needed to achieve certain tumor radiation doses in colorectal cancer patients. Williams LE, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):1029s-1030s
Postoperative radiation therapy for incompletely resected colorectal carcinoma. Allee PE, et al. **Int J Radiat Oncol Biol Phys** 1989 Dec;17(6):1171-6
Preoperative versus postoperative adjuvant radiotherapy for surgically curable carcinoma of the rectum and distal sigmoid colon. Rahman SM, et al. **South Med J** 1990 Jul; 83(7):774-7
Photon-neutron therapy for recurrent colorectal cancer—follow up and preliminary results. Engenhart R, et al. **Strahlenther Onkol** 1990 Jan;166(1):95-8
[Radiotherapy in colorectal cancer] Brown C. **Pathol Biol (Paris)** 1989 Nov;37(9):991 (Fre)
[Clinical evaluation of radiotherapy in recurrent colorectal cancer] Okawa T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 May 25; 49(5):607-13 (Eng. Abstr.) (Jpn)

SECONDARY

Fluorouracil and leucovorin for metastatic colorectal cancer. Erlichman C. **J Chemother** 1990 Feb;2 Suppl 1:38-40
Metastatic colorectal cancer: radioimmunoscintigraphy with a stabilized In-111-labeled F(ab')2 fragment of an anti-CEA monoclonal antibody. Lamki LM, et al. **Radiology** 1990 Jan;174(1):147-51
Operative ultrasound establishes resectability of metastases by major hepatic resection. Brower ST, et al. **World J Surg** 1989 Sep-Oct;13(5):649-57
[Intestinal metastasis and surgery in ovarian cancer: analysis of 62 cases] Wu BZ. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Jul;24(4):224-7, 253 (Eng. Abstr.) (Chi)

SURGERY

Serum and tissue pharmacokinetics of intravenous metronidazole in surgical patients. Kling PA, et al. **Acta Chir Scand** 1989 Jun-Jul;155(6-7):347-50
Prophylactic single-dose fosfomycin and metronidazole compared with neomycin, bacitracin, metronidazole and ampicillin in elective colorectal operations. Nøhr M, et al. **Acta Chir Scand** 1990 Mar;156(3):223-30
The efficacy of whole gut irrigation with polyethylene glycol electrolyte solution in elective colorectal surgery for cancer. Sakanoue Y, et al. **Acta Chir Scand** 1990 Jun-Jul; 156(6-7):463-6
Surgical alternatives to ileostomy or colostomy. Ambroze WL Jr, et al. **Adv Intern Med** 1990;35:375-91 (52 ref.)
Outcomes of surgery for colorectal cancer in patients age 80 years and older. Agarwal N, et al. **Am J Gastroenterol** 1990 Sep;85(9):1096-101
Colorectal cancer in a small rural hospital. Callaghan J. **Am J Surg** 1990 Mar;159(3):277-80; discussion 281
Follow-up of patients operated on for colorectal carcinoma. Ovaska J, et al. **Am J Surg** 1990 Jun;159(6):593-6
The effect of preoperative endoscopy on recurrence and survival following surgery for colorectal carcinoma. Howard ML, et al. **Am Surg** 1990 Mar;56(3):124-7
Endoscopic Nd-YAG laser treatment of colorectal neoplasms. A four-year longitudinal study. Unger SW, et al. **Am Surg** 1990 Mar;56(3):153-7
Colonoscopic surveillance after diagnosis of carcinoma of the colon and rectum. Michael Z, et al. **Ann Chir** 1989; 43(7):568-9
Selective salvage surgery in gastrointestinal and gynaecological cancer. Allum WH, et al. **Ann R Coll Surg Engl** 1990 Jan;72(1):2-5
Elective and emergency surgery for colorectal cancer in a district general hospital: impact of surgical training on patient survival. Chester J, et al. **Ann R Coll Surg Engl** 1989 Nov;71(6):370-4
Surgery for recurrent colorectal carcinoma—is it worthwhile? Pollard SG, et al. **Ann R Coll Surg Engl** 1989 Sep;71(5):293-8
Relationship between colorectal liver metastases and CEA levels in gallbladder bile. Yeatman TJ, et al. **Ann Surg** 1989 Oct;210(4):505-12
Basingstoke revisited. Isbister WH. **Aust N Z J Surg** 1990 Apr;60(4):243-6
Lasers in rectosigmoid cancers: factors affecting immediate and long-term results. Brunetaud JM, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):615-26 (20 ref.)
Local excision for selected colorectal carcinomas. Lawrence MA, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):727-37 (67 ref.)
Recurrent and advanced primary colorectal cancer: therapeutic implications of new concepts of gastrointestinal tumour biology. Sugarbaker PH. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):699-712 (15 ref.)
Metachronous colorectal carcinoma. Bülow S, et al. **Br J Surg** 1990 May;77(5):502-5
Association between transfusion with plasma and the recurrence of colorectal carcinoma. Marsh J, et al. **Br J Surg** 1990 Jun;77(6):623-6
Palliative treatment of advanced colorectal carcinoma with the YAG laser. Nagy AG. **Can J Surg** 1990 Aug; 33(4):261-4
New surgical treatments for recurrent colorectal cancer. Steele G Jr, et al. **Cancer** 1990 Feb 1;65(3 Suppl):723-30 (16 ref.)
Theoretical and practical limits of surgery in colorectal cancer. Beart RW Jr. **Cancer Surv** 1989;8(1):27-32 (11 ref.)
Colorectal carcinoma: presentation and immediate results of surgery at Mpilo Central Hospital. Muguti GI, et al. **Cent Afr J Med** 1989 Aug;35(8):448-51
Stomas in colorectal surgery: options and alternatives. Nasmyth DG. **Dig Dis** 1990;8(4):240-52 (60 ref.)
Perioperative blood transfusion increases the risk of recurrence in colorectal cancer. Beynon J, et al. **Dis Colon Rectum** 1989 Nov;32(11):975-9
Immunologic conditions and infectious complications in colon and rectal surgery for neoplasms [see comments] Fragapane P, et al. **Dis Colon Rectum** 1990 Apr;33(4):302-4 Comment in: Dis Colon Rectum 1990 May;33(5):367-9.
Recurrence of colorectal cancer and perioperative blood transfusion. Is blood storage time important? Hoh H, et al. **Dis Colon Rectum** 1990 Feb;33(2):127-30
Re-operation for recurrent colorectal cancer: the importance of early diagnosis for resectability and survival. Quentmeier A, et al. **Eur J Surg Oncol** 1990 Aug;16(4):319-25
Surgical treatment of symptomatic colorectal endometriosis. Coronado C, et al. **Fertil Steril** 1990 Mar;53(3):411-6
Effects of dietary wheat bran fiber on rectal epithelial cell proliferation in patients with resection for colorectal cancers. Alberts DS, et al. **J Natl Cancer Inst** 1990 Aug 1;82(15):1280-5
Invasive colorectal adenomas: surgery versus colonoscopic polypectomy. Pines A, et al. **J Surg Oncol** 1990 Jan; 43(1):53-5
Role of intraoperative ultrasound in the screening of liver metastases from colorectal carcinoma: initial experiences. Russo A, et al. **J Surg Oncol** 1989 Dec;42(4):249-55
Resection of hepatic metastases of colorectal carcinoma. Minton JP, et al. **Ohio Med** 1990 Mar;86(3):191
Better palliation of colorectal carcinoma with laser therapy. Faintuch JS. **Oncology (Williston Park)** 1988 Jul;2(7):33-8
Management of invasive carcinoma in pedunculated colorectal polyps. Gordon MS, et al. **Oncology (Williston Park)** 1989 Jul;3(7):99-104; discussion 104-5
The role of partial liver resection for metastatic cancer. Shiu MH. **Oncology (Williston Park)** 1987 Mar;1(1):38-47
General surgery. Taylor I. **Postgrad Med J** 1990 May; 66(775):339-55 (174 ref.)
[A modified technic of preoperative acute normovolemic hemodilution—the advantages and economic effect of its use in planned colorectal surgery] Nikolov K, et al. **Khirurgiia (Sofiia)** 1990;43(1):30-7 (Eng. Abstr.) (Bul)
[Therapeutic methods of digestive tract endoscopy in older persons] Frič P, et al. **Cas Lek Cesk** 1989 Dec 1; 128(49):1550-3 (Eng. Abstr.) (Cze)
[Reoperation in colorectal surgery] Michek J, et al. **Rozhl Chir** 1990 Feb;69(2):91-5 (Eng. Abstr.) (Cze)
[Intraoperative colonic irrigation in emergency colorectal surgery] Lehur PA, et al. **Ann Chir** 1990;44(5):348-51 (Eng. Abstr.) (Fre)
[Synchronous hepatic metastases of colorectal adenocarcinoma: what is the course? Apropos of 36 cases] de Quay N, et al. **Helv Chir Acta** 1989 Dec;56(4):447-54 (Eng. Abstr.) (Fre)
[Liver resection in 157 patients with colorectal metastases] Ringe B, et al. **Chirurg** 1990 Apr;61(4):272-9 (Eng. Abstr.) (Ger)
[Methods for measuring postoperative quality of life] Schwarz R, et al. **Chirurg** 1989 Jul;60(7):441-4 (Ger)
[Quality of life following colorectal surgery] Schwemmle K, et al. **Chirurg** 1989 Jul;60(7):454-7 (Ger)
[Lymphadenectomy in stomach and colorectal carcinoma] Siewert JR, et al. **Dtsch Med Wochenschr** 1990 Mar 9; 115(10):391-4 (31 ref.) (Ger)
[Blood transfusions and prognosis following curative resection of colorectal cancer: is there an association?] Laffer U, et al. **Helv Chir Acta** 1989 Dec;56(4):461-4 (Eng. Abstr.) (Ger)
[Intraoperative sonography for the detection of occult liver metastases in colorectal cancer] Hölscher AH, et al. **Langenbecks Arch Chir** 1989;374(6):363-9 (Eng. Abstr.) (Ger)
[Therapy concepts in large colorectal polyps] Junginger T, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:115-6 (Ger)
[Experiences with endoscopic recanalization using the Nd-YAG laser in tumor ileus and inoperable rectal cancer] Harnoss BM, et al. **Zentralbl Chir** 1989;114(18):1231-4 (Eng. Abstr.) (Ger)
[Laser therapy of colorectal tumors] Schultheis KH, et al. **Zentralbl Chir** 1990;115(7):419-32 (Eng. Abstr.) (Ger)
[Surgical complications in colorectal tumors] Köves I, et al. **Orv Hetil** 1990 Mar 25;131(12):623-6 (Eng. Abstr.) (Hun)
[The role of blood transfusion on the postoperative morbidity of tumors of the colon and rectum] Leardi S, et al. **Ann Ital Chir** 1989 Nov-Dec;60(6):537-41; discussion 541-2 (Eng. Abstr.) (Ita)
[Recent experience in: saving the inferior mesenteric artery during anterior resection of the rectum (letter)] Borioni R, et al. **Minerva Chir** 1989 Oct 15;44(19):2123 (Ita)
[New approaches in the diagnosis of pelvic recurrence after the Miles intervention] Carriero A, et al. **Minerva Chir** 1990 Mar 15;45(5):233-6 (Eng. Abstr.) (Ita)
[Mechanical staplers in colorectal surgery] De Cesare A, et al. **Minerva Chir** 1990 Jun 15;45(11):765-71 (26 ref.) (Eng. Abstr.) (Ita)
[Surgery for far-advanced colorectal cancer—extension of surgical indication and its results] Hojo K. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1428-31 (Eng. Abstr.) (Jpn)
[Effect of blood transfusion on prognosis of colorectal cancer patients] Onodera H, et al. **Nippon Geka Gakkai Zasshi** 1989 Nov;90(11):1890-8 (Eng. Abstr.) (Jpn)
[Extended surgery for advanced colo-rectal carcinoma (stage IV and V)] Takagi H, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1425-7 (Eng. Abstr.) (Jpn)
[Large bowel cancer: prognostic factors, surgical treatments and their results] Maetani S, et al. **Rinsho Byori** 1990 Apr; 38(4):407-10 (9 ref.) (Eng. Abstr.) (Jpn)
[Blood transfusion in cancer of the colon and rectum. Friend or foe of the surgeon? A review] Wiig JN. **Tidsskr Nor Laegeforen** 1990 Feb 10;110(4):503-7 (31 ref.) (Eng. Abstr.) (Nor)
[Emergency operations in colorectal cancer] Funariu G, et al. **Rev Chir [Chir]** 1989 Sep-Oct;38(5):347-56 (Eng. Abstr.) (Rum)
[Combined operations in colorectal cancer with bladder resection] Bondar' GV, et al. **Vopr Onkol** 1990;36(7):875-8 (Eng. Abstr.) (Rus)
[Neoplasms of the rectum. A presentation of 588 cases and review of the literature] Gómez Iglesias S, et al. **Rev Esp Enferm Apar Dig** 1989 Aug;76(2):132-7 (42 ref.) (Eng. Abstr.) (Spa)

THERAPY

The influence of patient age on the diagnosis and treatment of lung and colorectal cancer. Guadagnoli E, et al. **Arch Intern Med** 1990 Jul;150(7):1485-90
A randomized study of combined 5-fluorouracil and plasma perfusion over protein A-sepharose in human advanced colorectal carcinoma. Faradji A, et al. **Biotherapy** 1990; 2(1):87-94
Reactivation of rheumatoid arthritis during continuous infusion of interleukin 2: evidence of lymphocytic control of rheumatoid disease. Lavelle-Jones M, et al. **BMJ** 1990 Jul 14;301(6743):97
Adjuvant therapy in colorectal cancer: the need for a mega-trial [editorial] Taylor I, et al. **Br J Surg** 1990 Aug; 77(8):841-2
Cancers of the large bowel and hepatobiliary system. Treat J, et al. **Cancer Chemother Biol Response Modif** 1987; 9:264-70 (40 ref.)
5-Fluorouracil and levamisole in colorectal carcinoma. Grem JL. **Cancer Invest** 1990;8(2):283-4
Tumor-specific BCG therapy in colon cancer. Hoover HC Jr, et al. **Cancer Invest** 1990;8(2):281-2
An evaluation of the toxicity, immunogenicity, and tumor radioimmunodetecting ability of two human monoclonal antibodies in patients with metastatic colorectal carcinoma. Steis RG. **Cancer Invest** 1990;8(2):291-2
Radioimmunotherapy of human colorectal carcinoma xenografts using 90Y-labeled monoclonal antibody CO17-1A prepared by two bifunctional chelate techniques. Lee YC, et al. **Cancer Res** 1990 Aug 1;50(15):4546-51
Colorectal metastases to the liver: present status of management. Lise M, et al. **Dis Colon Rectum** 1990 Aug; 33(8):688-94
A gamma camera method to monitor the use of degradable starch microspheres in hepatic arterial chemotherapy. Britten A, et al. **Eur J Nucl Med** 1989;15(10):649-54
Treatment of patients with advanced cancer using multiple long-term cultured lymphokine-activated killer (LAK) cell infusions and recombinant human interleukin-2. Mittelman A, et al. **J Biol Response Mod** 1989 Oct;8(5):468-78
Adjuvant therapy of colorectal cancer: where do we stand? Macdonald JS. **Oncology (Williston Park)** 1989 Jun; 3(6):87-92; discussion 93-6, 98 (25 ref.)
Clinical update on the role of fluorouracil and recombinant interferon alfa-2a in the treatment of colorectal carcinoma. Wadler S, et al. **Semin Oncol** 1990 Feb;17(1 Suppl 1):16-21; discussion 38-41
Results of treatment of colorectal cancer in Singapore—can we do better? [editorial] Goh HS. **Singapore Med J** 1989 Dec;30(6):519-21
Quality of care of colorectal cancer patients in general hospitals: diffusion and impact of management guidelines. Apolone G, et al. **Tumori** 1990 Jun 30;76(3):261-9
Alpha-2 interferon and 5-fluorouracil in advanced colorectal cancer. Fornasiero A, et al. **Tumori** 1990 Aug 31; 76(4):385-8
[Blood transfusion, short perioperative intraportal chemotherapy and recurrence of colorectal cancer] Harder F, et al. **Chirurgie** 1989;115(10):759-65; discussion 765-6 (Eng. Abstr.) (Fre)
[Neopterin as a marker of aspecific immunostimulation with Propionibacterium avidum KP-40 in patients with gastrointestinal tumors. A prospective randomized study]

Peters KM, et al. **Med Klin** 1990 Jul 15;85(7):421–4 (Eng. Abstr.) (Ger)
[Adjuvant therapy in colorectal carcinoma] Metzger U. **Schweiz Med Wochenschr** 1990 Aug 7;120(31–32):1149–58 (64 ref.) (Eng. Abstr.) (Ger)
[Missile therapy of colorectal and pancreatic cancers—clinical trial of monoclonal antibody, A7–NCS, in 73 patients with colorectal and pancreatic cancers] Takahashi T, et al. **Gan To Kagaku Ryoho** 1990 Jun; 17(6):1111–9 (Eng. Abstr.) (Jpn)
[Treatment of liver metastases from colorectal cancer—major hepatic resection and continuous hepatic arterial infusion chemotherapy] Yasui K, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):777–81 (Eng. Abstr.) (Jpn)
[Metastasis of large intestinal cancer to the liver. Current suggested management] Meyza J. **Nowotwory** 1990 Jan–Mar;40(1):21–6 (10 ref.) (Eng. Abstr.) (Pol)

ULTRASTRUCTURE

Nuclear morphometry as a prognostic indicator in colorectal carcinoma resected for cure. Ambros RA, et al. **Anal Quant Cytol Histol** 1990 Jun;12(3):172–6
Fibrillary cytoplasmic inclusions in neoplastic Paneth cells. Watson PH. **Histopathology** 1990 Jan;16(1):69–74

VETERINARY

Colorectal ganglioneuromatosis in a young female dog (Lhasa Apso). Fairley RA, et al. **Vet Pathol** 1990 May;27(3):206–7

COLORECTAL NEOPLASMS, HEREDITARY NONPOLYPOSIS

Hereditary nonpolyposis colorectal carcinoma: cancer family syndrome. Mecklin JP. **Ann Med** 1989 Aug;21(4):313–6
Familial colorectal cancer and familial adenomatous polyposis. Northover JM, et al. **Baillieres Clin Gastroenterol** 1989 Jul;3(3):593–613 (98 ref.)
Adenocarcinoma of the small bowel in lynch syndrome II. Lynch HT, et al. **Cancer** 1989 Nov 15;64(10):2178–83

DIAGNOSIS

The colonoscopist and the Lynch syndromes. Lanspa SJ, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2):156–8

EPIDEMIOLOGY

The tumour spectrum in hereditary non–polyposis colorectal cancer: a study of 24 kindreds in the Netherlands. Vasen HF, et al. **Int J Cancer** 1990 Jul 15;46(1):31–4

GENETICS

Diploid predominance in hereditary nonpolyposis colorectal carcinoma evaluated by flow cytometry. Kouri M, et al. **Cancer** 1990 Apr 15;65(8):1825–9
Phenotypic variation in colorectal adenoma/cancer expression in two families. Hereditary flat adenoma syndrome. Lynch HT, et al. **Cancer** 1990 Sep 1;66(5):909–15
The Lynch syndrome; a high–risk factor for colorectal carcinoma. Biert J, et al. **Neth J Surg** 1989 Oct;41(5):108–10
Hereditary non–polyposis colorectal cancer in a Namaqualand kindred. Goldblatt J, et al. **S Afr Med J** 1990 Jan 6;77(1):42–4
[Hereditary site–specific colon cancer—report of two families] Shao YF. **Chung Hua Chung Liu Tsa Chih** 1990 Jan;12(1):46–8 (Eng. Abstr.) (Chi)

METABOLISM

Abnormalities of lectin histochemistry in familial polyposis coli and hereditary nonpolyposis colorectal cancer. Sams JS, et al. **Cancer** 1990 Aug 1;66(3):502–8 (50 ref.)

PATHOLOGY

The Lynch syndrome II and urological malignancies. Lynch HT, et al. **J Urol** 1990 Jan;143(1):24–8

PREVENTION & CONTROL

Colorectal adenomas in the Lynch syndromes. Results of a colonoscopy screening program. Lanspa SJ, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1117–22

COLORIMETRY

A sensitive, direct colorimetric assay of serum copper using 5–Br–PSAA. Makino T. **Clin Chim Acta** 1989 Oct 31; 185(1):7–16

INSTRUMENTATION

Test of a noninvasive instrument for measuring hemoglobin concentration. Sanchez–Carrillo CI, et al. **Int J Technol Assess Health Care** 1989;5(4):659–67
Effects of instrument–measuring geometry on colorimetric assessments of dental porcelains. Seghi RR. **J Dent Res** 1990 May;69(5):1180–3
Performance assessment of colorimetric devices on dental porcelains. Seghi RR, et al. **J Dent Res** 1989 Dec; 68(12):1755–9
A comparison of new and conventional methods for quantification of tooth color. van der Burgt TP, et al. **J Prosthet Dent** 1990 Feb;63(2):155–62
New colorimetric test for rapid diagnosis of streptococcal pharyngitis: a warning. Gerber MA, et al. **Pediatrics** 1990 Sep;86(3):457–9
A method to determine the end point of decalcification of hard tissue and bone. Müller S, et al. **Stain Technol** 1990; 65(2):77–83

METHODS

Continuous–flow quantitation of Na+ and K+ in nanoliter samples using chromogenic macrocyclic ionophores. Terada Y, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):F893–8
A colorimetric method for the enzymatic analysis of gases: the determination of ethanol and formaldehyde vapors using solid alcohol oxidase. Barzana E, et al. **Anal Biochem** 1989 Oct;182(1):109–15
Colorimetric micromethods for glutaraldehyde determination by means of phenol and sulfuric acid or phenol and perchloric acid. Boratyński J, et al. **Anal Biochem** 1990 Feb 1;184(2):259–62
A microtiter plate assay for aspartate transcarbamylase. Else AJ, et al. **Anal Biochem** 1990 May 1;186(2):219–21
Automated continuous–flow colorimetric determination of glutathione peroxidase with dichloroindophenol. Hawkes WC, et al. **Anal Biochem** 1990 Apr;186(1):46–52
Colorimetric assay for cellular transglutaminase. Jeon WM, et al. **Anal Biochem** 1989 Oct;182(1):170–5
A colorimetric assay specific for gamma–carboxyglutamic acid–containing proteins: its utility in protein purification procedures. Nishimoto SK. **Anal Biochem** 1990 May 1; 186(2):273–9
A quantitative colorimetric assay for semialdehydes. Small WC, et al. **Anal Biochem** 1990 Feb 15;185(1):156–9
Colorimetric assay for pluronic F–68 as measured in isolated rat liver perfusion systems. Tercyak AM, et al. **Anal Biochem** 1990 May 15;187(1):54–5
Chemiluminescent assay for determination of viable cell density of yeast, mammalian, and plant cells. Yamashoji S, et al. **Anal Biochem** 1989 Aug 15;181(1):149–52
Influence of monoclonal immunoglobulins in three different methods for inorganic phosphorus. Bakker AJ, et al. **Ann Clin Biochem** 1990 May;27 (Pt 3):227–31
Colorimetric growth assay for epidermal cell cultures by their crystal violet binding capacity. Bonnekoh B, et al. **Arch Dermatol Res** 1989;281(7):487–90
A simple method for rapid and precise estimation of the protamine dose required for clinical heparin reversal. Yang VC. **ASAIO Trans** 1989 Jul–Sep;35(3):274–7
Clinical evaluation of a direct colorimetric method for determination of amniotic phospholipids. Nishino E, et al. **Asia Oceania J Obstet Gynaecol** 1990 Mar;16(1):63–71
DNA sequencing with direct blotting electrophoresis and colorimetric detection. Richterich P, et al. **Biotechniques** 1989 Jan;7(1):52–9
The MTT assay underestimates the growth inhibitory effects of interferons. Jabbar SA, et al. **Br J Cancer** 1989 Oct; 60(4):523–8
Evaluation of tetrazolium–based semiautomatic colorimetric assay for measurement of human antitumor cytotoxicity. Heo DS, et al. **Cancer Res** 1990 Jun 15;50(12):3681–90
Antiproliferative drugs and human ocular fibroblasts: colorimetric vs. cell counting assays. Givens KT, et al. **Curr Eye Res** 1990 Jun;9(6):599–606
Evaluation of a colorimetric method for vitamin A estimation. Panth M, et al. **Indian J Exp Biol** 1989 Dec; 27(12):1044–7
A new quantitative nitroblue tetrazolium reduction assay based on kinetic colorimetry. Virella G, et al. **J Clin Lab Anal** 1990;4(2):86–9
Visual and instrumental colorimetric assessments of small color differences on translucent dental porcelain. Seghi RR, et al. **J Dent Res** 1989 Dec;68(12):1760–4
A modified colorimetric assay of macrophage activation for intracellular cytotoxicity against Leishmania parasites. Kiderlen AF, et al. **J Immunol Methods** 1990 Feb 20; 127(1):11–8
A simple and rapid method to determine hematopoietic growth factor activity. Kotnik V, et al. **J Immunol Methods** 1990 May 8;129(1):23–30
New colorimetric cytotoxicity assay for anticancer–drug screening. Skehan P, et al. **J Natl Cancer Inst** 1990 Jul 4;82(13):1107–12
A modified method for the determination of aluminium–gel in vaccine. Doi M, et al. **Kitasato Arch Exp Med** 1989 Dec; 62(4):171–80
[Qualitative and quantitative diagnostic possibilities of papillary colorimetry] Weder W. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):135–40 (Eng. Abstr.) (Ger)
[Age dependence, sex independence and reference values of serum fructosamine determined using a new colorimetry method] Henny J, et al. **Wien Klin Wochenschr Suppl** 1990; 180:48–52; discussion 57–9 (Eng. Abstr.) (Ger)
[Significance of tetrazolium salt based colorimetric assay (MTT assay) for isolated rabbit parietal cell] Yoshida Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May; 87(5):1263 (Jpn)
[Comparative evaluation of various methods of analyzing sodium and potassium hydroxides in the air of galvanic shops] Karelin ON, et al. **Gig Sanit** 1989 Sep;(9):44–5 (Rus)
[The use of a microcolorimeter in microbiological practice] Papanova EV, et al. **Med Tekh** 1989 Jul–Aug;(4):47–8 (Eng. Abstr.) (Rus)
[The information value of a colorimetric method for studying surfactant in acute pneumonia] Khasina MA, et al. **Voen Med Zh** 1989 Jul;(7):43–4 (Rus)

COLORING AGENTS see DYES

COLORING AGENTS, FOOD see FOOD COLORING AGENTS

COLOSTOMY

Surgical alternatives to ileostomy or colostomy. Ambroze WL Jr, et al. **Adv Intern Med** 1990;35:375–91 (52 ref.)
Endoscopic examination of the colon and rectum distal to a colostomy. Haas PA, et al. **Am J Gastroenterol** 1990 Jul; 85(7):850–4
Colostomy as treatment for complications of spinal cord injury. Stone JM, et al. **Arch Phys Med Rehabil** 1990 Jun; 71(7):514–8
Délorme operation for prolapsed colostomy. Abulafi AM, et al. **Br J Surg** 1989 Dec;76(12):1321–2
Percutaneous drainage of a diverticular abscess can make colostomy unnecessary in selected cases. Sparks FC, et al. **Conn Med** 1990 Jun;54(6):305–7
Stomas in colorectal surgery: options and alternatives. Nasmyth DG. **Dig Dis** 1990;8(4):240–52 (60 ref.)
Primary repair vs. colostomy for the treatment of penetrating colon injuries [see comments] Ridgeway CA, et al. **Dis Colon Rectum** 1989 Dec;32(12):1046–9 Comment in: Dis Colon Rectum 1990 Apr;33(4):354.
Bleeding stomal varices. The role of local treatment. Roberts PL, et al. **Dis Colon Rectum** 1990 Jul;33(7):547–9
Primary repair vs. colostomy for the treatment of colon injuries [letter; comment] Voeller GR, et al. **Dis Colon Rectum** 1990 Apr;33(4):354 Comment on: Dis Colon Rectum 1989 Dec;32(12):1046–9.
Rectal J pouch reservoir to decrease the frequency of tenesmus and defecation in low coloproctostomy. Wheeless CR Jr, et al. **Gynecol Oncol** 1989 Nov;35(2):136–8
Ostomy prolapse in paraplegic patients: etiology, prevention, and treatment. Arun H, et al. **J Am Paraplegia Soc** 1990 Apr;13(2):7–9
The efficacy of colostomy as a bowel management alternative in selected spinal cord injury patients. Saltzstein RJ, et al. **J Am Paraplegia Soc** 1990 Apr;13(2):9–13
Effect of colostomy on nitrogen nutrition in the chicken fed a low protein diet plus urea. Karasawa Y. **J Nutr** 1989 Oct;119(10):1388–91
Use of the umbilical site for temporary ostomy: review of 47 cases. Fitzgerald PG, et al. **J Pediatr Surg** 1989 Oct; 24(10):973
Indications for barium enema preceding colostomy closure in trauma patients. Atweh NA, et al. **J Trauma** 1989 Dec; 29(12):1641–2
Effects of suture selection and local and distant sepsis on colonic wound healing. Berman IR, et al. **Surg Forum** 1978; 29:18–9
[Traumatic injuries of the colon: primary suture or colostomy?] Costa OL, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Jan–Feb;44(1):25–8 (Eng. Abstr.) (Por)
[Indications for temporary diversions and for primary resections in emergency colon surgery] Mogoş D, et al. **Rev Chir [Chir]** 1989 Nov–Dec;38(6):431–6 (Eng. Abstr.) (Rum)
[Surgical tactics in cancer of the colon complicated by intestinal obstruction] Tetdoev AM, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):64–7 (Eng. Abstr.) (Rus)
[Combined resection of the bladder and restoration of continuity of the large intestine after Hartmann's operation] Basheev VKh, et al. **Klin Khir** 1990;(2):63 (Rus)
[Use of a manual intestinal suture in elimination of colostomy] Bodnaruk II, et al. **Klin Khir** 1990;(2):27–8 (Eng. Abstr.) (Rus)
[Motility of the colon: electric and manometric description of the mass movement] García Olmo D, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):113–9 (Eng. Abstr.) (Spa)
[It is wise to centralize advanced reservoir surgery] Hultén L. **Lakartidningen** 1990 Jan 24;87(4):190 (Swe)

ADVERSE EFFECTS

A case of diversion rectitis. Nobels F, et al. **Acta Clin Belg** 1989;44(3):202–4
Acquired partial nasolacrimal obstruction due to a suture stent following esophagocolostomy [letter] Bartley GB, et al. **Arch Ophthalmol** 1990 Aug;108(8):1074
Some factors influencing the outcome of stoma surgery. Leenen LP, et al. **Dis Colon Rectum** 1989 Jun;32(6):500–4
A retrospective study of colostomies, leaks and strictures after colorectal anastomosis. Tuson JR, et al. **Int J Colorectal Dis** 1990 Feb;5(1):44–8
Dermatologic complications in colostomy and ileostomy patients. Hellman J, et al. **Int J Dermatol** 1990 Mar; 29(2):129–33 (17 ref.)
Bedside modified latex tube colopexy for the treatment of colostomy prolapse in children. Mogilner JG, et al. **Isr J Med Sci** 1990 Jul;26(7):410–1
Pericolostomy varices. Stansby G, et al. **J R Coll Surg Edinb** 1990 Apr;35(2):109–10
Diversion colitis: a nutritional deficiency syndrome? Agarwal

VP, et al. **Nutr Rev** 1989 Sep;47(9):257–61 (28 ref.)
Lymphoid follicular hyperplasia in excluded colonic segments: a radiologic sign of diversion colitis. Lechner GL, et al. **Radiology** 1990 Jul;176(1):135–6
Rates of morbidity and mortality after closure of loop and end colostomy. Mileski WJ, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):17–21
Parastomal hernias. Pearl RK. **World J Surg** 1989 Sep–Oct; 13(5):569–72
[Complications of colostomies and colostomy closure] Hwang YF, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1990 Jun; 6(6):276–82 (Eng. Abstr.) **(Chi)**
[Surgical complications in colorectal tumors] Köves I, et al. **Orv Hetil** 1990 Mar 25;131(12):623–6 (Eng. Abstr.) **(Hun)**
[Y–V plasty for the treatment of stenosis of cutaneous stomas] Chessa PP, et al. **Minerva Chir** 1990 Jan;45(1–2):45–6 (Eng. Abstr.) **(Ita)**
[Causes of complications of reconstructive operations in patients after resection of the rectum by the Hartmann method leaving a short stump. The ways of reducing the incidence of complications] Sakhautdinov VG, et al. **Vestn Khir** 1990 Mar;144(3):31–5 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

The Conseal continent colostomy appliance: Southmead Hospital experience. Down G, et al.
Bristol Med Chir J 1989 May;104(2):59–60
A simple device for prolapsing loop colostomies. Fucini C. **Dis Colon Rectum** 1989 Jun;32(6):534–5
The rigid rectoscope in the colostomy [letter] Delpre G, et al. **Endoscopy** 1989 Nov;21(6):296
Achievement of stomal continence in one–third of colostomies by use of a new disposable plug. Clague MB, et al. **Surg Gynecol Obstet** 1990 May;170(5):390–4
[Colostomy devices for the extracorporeal organ] Shindo K. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):813–8 (8 ref.) (Eng. Abstr.) **(Jpn)**
[Experimental stand for the obturator of colostomy] Gaponov VV. **Klin Khir** 1990;(5):55 **(Rus)**
[A device for control of colostomy] Gaponov VV, et al. **Klin Khir** 1990;(2):69–70 **(Rus)**

METHODS

Hidden loop colostomy. Walfisch S, et al. **Can J Surg** 1989 Nov;32(6):401–2
Perineal colostomy and electrostimulated gracilis "neosphincter" after abdomino–perineal resection of the colon and anorectum: a surgical experience and follow–up study in 47 cases. Cavina E, et al. **Int J Colorectal Dis** 1990 Feb;5(1):6–11
Hartmann's procedure for carcinoma of rectum and distal sigmoid colon: 5–year audit. Dixon AR, et al.
J R Coll Surg Edinb 1990 Jun;35(3):166–8
Construction of the intestinal stoma with an intraluminal stapling device. Donovan JF, et al. **J Urol** 1989 Nov; 142(5):1279–81
Technical aids in surgery. Completely defunctioning loop colostomy. Ngakane H, et al. **S Afr J Surg** 1989 Sep; 27(4):145–6
Modified technique of colostomy bridging. Bergren CT, et al. **Surg Gynecol Obstet** 1990 May;170(5):453–4
[The use of a new plastic method for consolidating a preternatural anus as prevention in paracolostomy hernias] Dimitrov V, et al. **Khirurgiia (Sofiia)** 1990;43(2):82–6 (Eng. Abstr.) **(Bul)**
[Anal sphincter reconstruction by interposition of an ileo–colonic segment and transposition of musculi glutaeus maximus bundles after resection of anorectal carcinoma] Ge LZ. **Chung Hua Wai Ko Tsa Chih** 1989 Jul;27(7):387–9, 443 (Eng. Abstr.) **(Chi)**
[Transpositioning of an abdominal colostomy to the perineum to form an intussuscepted artificial anus] Xi ZY.
Chung Hua Wai Ko Tsa Chih 1989 Jul;27(7):390–1, 443 (Eng. Abstr.) **(Chi)**
[Must we reject primary colostomy in left colonic obstruction caused by cancer?] Parc R, et al. **Chirurgie** 1989;115 Suppl 2:112–6 (Eng. Abstr.) **(Fre)**
[Discontinuity resection of the colon. Indications and results] Hermanek P Jr, et al. **Chirurg** 1990 Jan;61(1):49–52 (Eng. Abstr.) **(Ger)**
[Experiences with a subcutaneous, fully resorbable bridge in construction a double loop ileo– and colostomy] Wedell J, et al. **Chirurg** 1990 Jan;61(1):36–8 (Eng. Abstr.) **(Ger)**
[Our experience in tailoring definitive terminal colostomies and in the follow–up of such patients] Clerico D, et al. **Minerva Chir** 1989 Oct 15;44(19):2077–9 (Eng. Abstr.) **(Ita)**
[The technical details of the definitive terminal colostomy] Rădulescu D, et al. **Rev Chir [Chir]** 1989 Sep–Oct; 38(5):365–70 (Eng. Abstr.) **(Rum)**
[Changes in the circulatory bed of the muscles of the hindlimb after their transplantation to the perineum and the formation of the anal sphincter] Tatianchenko VK, et al. **Arkh Anat Gistol Embriol** 1990 Jan;98(1):54–60 (Eng. Abstr.) **(Rus)**
[Formation of a smooth–muscle cuff around perineal colostomy after extirpation of the rectum] Fedorov VD, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):128–31 **(Rus)**
[End–to–end anastomosis in right–sided hemicolectomy] Kariakin AM, et al. **Vestn Khir** 1989 Dec;144(12):21–6 (Eng. Abstr.) **(Rus)**
[Possibilities of the anterior extra–sphincter lowering of the colon (comparative characteristics of restorative surgery after resection of the rectum using the Hartmann method)] Sakhautdinov VG, et al. **Vestn Khir** 1990 Jan;144(1):115–8 (Eng. Abstr.) **(Rus)**
[Diagnosis and treatment of acute intestinal obstruction in cancer of the colon] Topuzov EG. **Vestn Khir** 1989 Dec; 144(12):76–8 **(Rus)**
[Surgical treatment of dolichosigmoid and its torsion] Zemlianoĭ AG, et al. **Vestn Khir** 1989 Nov;143(11):28–30 **(Rus)**

MORTALITY

Protective colostomy closure: the hazards of a "minor" operation. Altomare DF, et al. **Int J Colorectal Dis** 1990 May;5(2):73–8

PSYCHOLOGY

Colostomy: past and present. Devlin HB.
Ann R Coll Surg Engl 1990 May;72(3):175–6
[Quality of life following colorectal surgery] Schwemmle K, et al. **Chirurg** 1989 Jul;60(7):454–7 **(Ger)**
[The colostomized patient: a study on his self–image and on his surgeon's image] Daini S, et al. **Chir Patol Sper** 1987 Feb;35(1):19–28 (Eng. Abstr.) **(Ita)**
[Psychological sequelae of abdominal stoma and the value of informing the patients and their families] Fryc–Martyńska J. **Pol Tyg Lek** 1989 May 15;44(20):469–71 (Eng. Abstr.) **(Pol)**

REHABILITATION

Coping with stoma care in the community. Elcoat C.
Practitioner 1989 May 22;233(1469):776–9
[Care and rehabilitation of colostomized patients] Di Mauro S, et al. **Ann Ital Chir** 1989 Sep–Oct;60(5):423–7 (10 ref.) (Eng. Abstr.) **(Ita)**
[Problems of closure of two–passage colostomy] Voro bev GI, et al. **Vestn Khir** 1989 May;142(5):134–8 (44 ref.) **(Rus)**
[A method of closing the colostomy to restore the continuity of the colon] Zinevich VP. **Vestn Khir** 1989 Aug; 144(8):140–2 (Eng. Abstr.) **(Rus)**

COLOSTRAL IGA see **IGA, SECRETORY**

COLOSTRUM

Cryptosporidiosis and acute leukemia [letter] Heaton P.
Arch Dis Child 1990 Jul;65(7):813–4
Cessation of Cryptosporidium–associated diarrhea in an acquired immunodeficiency syndrome patient after treatment with hyperimmune bovine colostrum. Ungar BL, et al. **Gastroenterology** 1990 Feb;98(2):486–9
Initiating breastfeeding: a world survey of the timing of postpartum breastfeeding. Morse JM, et al.
Int J Nurs Stud 1990;27(3):303–13 (152 ref.)
Passive oral immunisation of children [letter; comment] Boesman–Finkelstein M, et al. **Lancet** 1989 Dec 2; 2(8675):1336 Comment on: Lancet 1989 Sep 23;2(8665):709–12.

ANALYSIS

The effect of late pregnancy feed allowance on the milk composition of the sow's colostrum and milk. Göransson L. **Acta Vet Scand** 1990;31(1):109–15
Colostrum appears void of HIV nucleic acid [news]
Am Fam Physician 1990 Sep;42(3):771–2
Time–course levels of alpha 2–macroglobulin and albumin in cow colostrum and milk and alpha 2–macroglobulin levels in mastitic cow milk. Perez MD, et al.
Ann Rech Vet 1989;20(3):251–8
Rapid purification of porcine colostral whey lactoferrin by affinity chromatography on single–stranded DNA–agarose. Characterization, amino acid composition and N–terminal amino acid sequence. Hutchens TW, et al.
Biochim Biophys Acta 1989 Dec 21;999(3):323–9
Structure determination of three neutral oligosaccharides obtained from horse colostrum. Urashima T, et al.
Carbohydr Res 1989 Dec 1;194:280–7
Synthesis and evolution of concentration of beta–lactoglobulin and alpha–lactalbumin from cow and sheep colostrum and milk throughout early lactation. Perez MD, et al. **Cell Mol Biol** 1990;36(2):205–12
Insulin–like growth factor–I, GH, insulin and glucagon concentrations in bovine colostrum and in plasma of dairy cows and neonatal calves around parturition. Oda S, et al. **Comp Biochem Physiol [A]** 1989;94(4):805–8
Comparison of lactoferrin content in colostrum between different cattle breeds. Tsuji S, et al. **J Dairy Sci** 1990 Jan; 73(1):125–8
Casein and casein subunits in preterm milk, colostrum, and mature human milk. Kunz C, et al.
J Pediatr Gastroenterol Nutr 1990 May;10(4):454–61
Carotenoids of human colostrum. Patton S, et al. **Lipids** 1990 Mar;25(3):159–65
Purification and characterization of a bovine colostrum–derived growth factor. Shing Y, et al.
Mol Endocrinol 1987 May;1(5):335–8
Gonadotropin–releasing hormone–associated peptide immunoreactivity in bovine colostrum. Zhang T, et al.
Proc Soc Exp Biol Med 1990 Jul;194(3):270–3
Lipid composition of human colostrum in mothers having followed a diet devoid of either butter or margarine during pregnancy. Korybut–Woroniecka MI, et al.
Prostaglandins Leukot Essent Fatty Acids 1990 Jun; 40(2):161

CYTOLOGY

Phagocytic activity of human colostrum macrophages. Vassão RC, et al. **Braz J Med Biol Res** 1989;22(4):457–64
[Review article: colostral leukocytes and their significance for the immune system of newborns] Riedel–Caspari G, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Apr; 97(4):180–6 (112 ref.) (Eng. Abstr.) **(Ger)**
[Immunologic aspects of the macrophages in the milk of preterm mothers] Rodríguez Rodríguez MC, et al.
An Esp Pediatr 1989 Jul;31(1):36–8 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

An attempt to determine the tissue origin of equine serum alkaline phosphatase by isoelectric focusing. Ellison RS, et al. **Can J Vet Res** 1990 Jan;54(1):119–25
Identification of a soluble UDP–Gal: Gal (beta 1–4)Glc (or GlcNAc) (alpha 1–3) galactosyltransferase of bovine colostrum. Hosomi O, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):961–8

IMMUNOLOGY

Treatment with bovine hyperimmune colostrum of cryptosporidial diarrhea in AIDS patients. Nord J, et al.
AIDS 1990 Jun;4(6):581–4
Effects of colostral antibody on susceptibility of calves to Cryptosporidium parvum infection [published erratum appears in Am J Vet Res 1990 Jul;51(7):1155] Harp JA, et al. **Am J Vet Res** 1989 Dec;50(12):2117–9
Maternal–neonatal immunoregulation: suppression of de novo synthesis of IgG and IgA, but not IgM, in neonatal pigs by bovine colostrum, is lost upon storage. Klobasa F, et al. **Am J Vet Res** 1990 Sep;51(9):1407–12
Complement activity and selected hematologic variables in newborn foals fed bovine colostrum. Lavoie JP, et al.
Am J Vet Res 1989 Sep;50(9):1532–6
Rotavirus replication in colostrum–fed and colostrum–deprived pigs. Shaw DP, et al.
Am J Vet Res 1989 Nov;50(11):1966–70
Protection of colostral antibodies against bovine leukemia virus infection in calves on a California dairy. Lassauzet ML, et al. **Can J Vet Res** 1989 Oct;53(4):424–30
IgA subclasses of human colostral antibodies specific for microbial and food antigens. Ladjeva I, et al.
Clin Exp Immunol 1989 Oct;78(1):85–90
Human milk contains proteins that stimulate and suppress T lymphocyte proliferation. Mincheva–Nilsson L, et al.
Clin Exp Immunol 1990 Mar;79(3):463–9
Relationships of total protein, specific gravity, viscosity, refractive index and latex agglutination to immunoglobulin G concentration in mare colostrum. Waelchli RO, et al.
Equine Vet J 1990 Jan;22(1):39–42
Immunization against bovine rotaviral infection. Castrucci G, et al. **Eur J Epidemiol** 1989 Sep;5(3):279–84
Eliciting antibodies in chickens to human dimeric IgA removal of factors from human colostrum depressing anti IgA antibody production. Polson A, et al.
Immunol Invest 1989 Aug;18(7):853–77
Distribution of IgG subclasses in human colostrum and milk. Mehta PD, et al. **Immunol Lett** 1989 Sep;22(3):235–8
Decreased colostral immunoglobulin absorption in calves with postnatal respiratory acidosis. Besser TE, et al.
J Am Vet Med Assoc 1990 Apr 15;196(8):1239–43
Antibodies from colostrum in oral immunotherapy. Stephan W, et al. **J Clin Chem Clin Biochem** 1990 Jan;28(1):19–23
Milk intake before first colostrum in newborn dairy calves. Effect on intestinal transmission of macromolecules. Michanek P, et al. **J Dairy Sci** 1990 Feb;73(2):480–3
Secretory IgA, IgG, and IgM immunoglobulins isolated simultaneously from colostral whey by selective thiophilic adsorption. Hutchens TW, et al. **J Immunol Methods** 1990 Mar 27;128(1):89–99
Protective potential of colostrum and early milk against prospective influenza viruses. Shortridge KF, et al.
J Trop Pediatr 1990 Apr;36(2):94–5
Selective removal, recovery, and characterization of immunoglobulins from human colostrum. Hutchens TW, et al. **Pediatr Res** 1989 Dec;26(6):623–8
[The importance of immunologic properties of colostrum in the nutrition of neonates] Culík J, et al. **Cesk Pediatr** 1989 Sep;44(9):521–4 (Eng. Abstr.) **(Cze)**
[Neonatal hemolytic icterus in foals. A study of antibodies in colostrum and serum] van Haeringen H.
Tijdschr Diergeneeskd 1989 Nov 15;114(22):1141–8 (Eng. Abstr.) **(Dut)**
[Udder immunization for the protection of calves from salmonella infections. 2. Estimation of serological findings of colostrum with regard to its protective activity] Staak C, et al. **Zentralbl Veterinarmed [B]** 1990 Jun;37(4):283–9 (Eng. Abstr.) **(Ger)**
[Immunoglobulin components and anti–viral activities in bovine colostrum] Ushijima H, et al.
Kansenshogaku Zasshi 1990 Mar;64(3):274–9 (Eng. Abstr.) **(Jpn)**

[Bovine leukemia virus antibody levels in the blood and mammary gland secretion in cows in the perinatal period] Kuźmak J. **Pol Arch Weter** 1988;28(1-2):63-73 (Eng. Abstr.) **(Pol)**

METABOLISM

Safety and efficacy of two sustained-release intrareticular selenium supplements and the associated placental and colostral transfer of selenium in beef cattle. Campbell DT, et al. **Am J Vet Res** 1990 May;51(5):813-7

Effect of colostrum feeding on protein metabolism in the small intestine of newborn lambs. Patureau Mirand P, et al. **Biol Neonate** 1990;57(1):30-6

Characterization and measurement of immunoglobulins in the grey seal (Halichoerus grypus). Carter SD, et al. **J Comp Pathol** 1990 Jan;102(1):13-23

MICROBIOLOGY

[Expression of visna-maedi virus in the mammary secretions of a seropositive ewe during gestation and then an artificial induction of lactation] Ouzrout R, et al. **Ann Rech Vet** 1990; 21(1):69-73 (Eng. Abstr.) **(Fre)**

[Bacteriological comparison of colostrum and mature human milk] Atalay S, et al. **Mikrobiyol Bul** 1989 Apr;23(2):127-32 (Eng. Abstr.) **(Tur)**

COLPOSCOPY

Colposcopy and computer graphics [letter; comment] Fegerl HE. **Am J Obstet Gynecol** 1990 May;162(5):1347-8 Comment on: Am J Obstet Gynecol 1989 Mar;160(3):535-8.

Colposcopy in diethylstilbestrol-exposed offspring [letter] Gimbel GL. **Am J Obstet Gynecol** 1990 Aug;163(2):703

Is routine colposcopic assessment necessary following laser ablation of cervical intraepithelial neoplasia? Lopes A, et al. **Br J Obstet Gynaecol** 1990 Feb;97(2):175-7

Test of immunopotentialization in colposcopy—a clinical evaluation. Balajewicz M, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Dec;33(3):253-7

Colposcopy in teenagers [letter] Sivakumar K, et al. **Genitourin Med** 1990 Jun;66(3):228

20-year experience of follow-up of the abnormal smear with colposcopy and histology and treatment by conization or cryosurgery. Hellberg D, et al. **Gynecol Oncol** 1990 Aug; 38(2):166-9

The relative significance of colposcopic descriptive appearances in the diagnosis of cervical intraepithelial neoplasia. Edebiri AA. **Int J Gynaecol Obstet** 1990 Sep; 33(1):23-9

Response to use of the word colposcopic [letter] Caplan RM. **J Am Acad Dermatol** 1990 Jan;22(1):147-8

Teaching colposcopy and androscopy in family practice residencies. Newkirk GR, et al. **J Fam Pract** 1990 Aug; 31(2):171-8

The Colposcopy Clinic Data System. Cartwright PS. **J Reprod Med** 1989 Sep;34(9):645-6

Necessity for endocervical curettage in elderly women undergoing colposcopy. Dinh TA, et al. **J Reprod Med** 1989 Sep;34(9):621-4

Microcolposcopy vs. cone histology in evaluation of the endocervix in women with inadequate colposcopy or positive endocervical curettage. Hunter V, et al. **J Reprod Med** 1989 Sep;34(9):625-8

The place of colposcopy and related systems in gynecological practice and research [letter; comment] Jones HW 3d, et al. **J Reprod Med** 1989 Nov;34(11):75 Comment on: J Reprod Med 1988 Sep;33(9):737-8.

Cervical conization findings in women with dysplastic cervical cytology and normal colposcopy. Ramirez EJ, et al. **J Reprod Med** 1990 Apr;35(4):359-61

Human papillomavirus detection in cervical lesions nondiagnostic for cervical intraepithelial neoplasia: correlation with Papanicolaou smear, colposcopy, and occurrence of cervical intraepithelial neoplasia. Nuovo GJ, et al. **Obstet Gynecol** 1990 Jun;75(6):1006-11

Colposcopic biopsy in pregnant teenagers [letter] Bloch B. **S Afr Med J** 1990 Sep 1;78(5):285-6

Colposcopic biopsy in pregnant teenagers detects cervical lesions missed by cytology. de Villiers VP, et al. **S Afr Med J** 1990 Jun 2;77(11):555-6

The 'Pap' or cervical smear and the role of colposcopy in screening for carcinoma of the cervix. Singh P, et al. **Singapore Med J** 1989 Jun;30(3):302-5 (9 ref.)

[Teenage pregnancy and routine colposcopy] de Villiers VP. **S Afr Med J** 1989 Dec 16;76(12):668-9 (23 ref.) (Eng. Abstr.) **(Afr)**

[Problems in colposcopic diagnosis of human papillomavirus infection] Holub Z, et al. **Cesk Gynekol** 1990 Apr; 55(3):200-3 **(Cze)**

[Does colposcopic and/or cytologic detection of HPV infection without signs of dysplasia require treatment, for example by cryotherapy, laser or trichloroacetic acid (Masviya et al.)?] Schneider A. **Zentralbl Gynakol** 1989; 111(14):1004-9 **(Ger)**

[Proposal for a data collection system for colposcopy services] Vegliò PC, et al. **Minerva Ginecol** 1990 Apr; 42(4):139-42 (Eng. Abstr.) **(Ita)**

[Cervicography—a useful method for the early detection of changes in the uterine cervix] Kesić V, et al. **Jugoal Ginekol Perinatol** 1989 May-Aug;29(3-4):107-11 (Eng. Abstr.) **(Ser)**

INSTRUMENTATION

The computerized digital imaging colposcope: future directions. Crisp WE, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1491-7; discussion 1497-8

Endoscopic localization of the squamocolumnar junction before cervical cone biopsy in 284 patients. Saunders N, et al. **Cancer** 1990 Mar 15;65(6):1312-7

Choosing equipment for colposcopy in genitourinary medicine. Hare MJ. **Genitourin Med** 1990 Aug; 66(4):297-301

Endocervical curettage by Vabra aspiration as part of colposcopic evaluation. Helmerhorst TJ, et al. **Gynecol Oncol** 1990 Mar;36(3):312-6

Female urologic diagnostic techniques. Redman JF. **Urol Clin North Am** 1990 Feb;17(1):5-8

[Indications and the process of vaginoscopy in children] Terruhn V. **Padiatr Padol** 1989;24(3):215-25 (Eng. Abstr.) **(Ger)**

METHODS

Preventing cervical conization by achieving satisfactory colposcopy with hygroscopic cervical dilators. Stern JL, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):176-7

A new way to expose endocervical lesions at colposcopy. Johnson N, et al. **Gynecol Oncol** 1990 Feb;36(2):217-8

Assessment of endocervical curettage in colposcopy. Linasmita V, et al. **J Med Assoc Thai** 1990 Feb;73 Suppl 1:28-32

Microcolpohysteroscopic tailoring of cervical conization. Gilbert L, et al. **Obstet Gynecol** 1990 Jul;76(1):101-5

Use of the colposcope in childhood sexual abuse examinations. McCann J. **Pediatr Clin North Am** 1990 Aug; 37(4):863-80 (36 ref.)

[Vaginoscopy—a modern method in pediatric-adolescent gynecology] Sirakov M, et al. **Akush Ginekol (Sofiia)** 1989; 28(3):67-70 (Eng. Abstr.) **(Bul)**

[Cervical screening and cervicography] Doyen J. **Rev Med Liege** 1990 Mar;45(3):135-8 **(Fre)**

PSYCHOLOGY

Preference for information and involvement, information seeking and emotional responses of women undergoing colposcopy. Barsevick AM, et al. **Res Nurs Health** 1990 Feb;13(1):1-7

STANDARDS

Colposcopy services in the West Midlands region [see comments] Woodman CB, et al. **BMJ** 1989 Oct 7; 299(6704):899-901 Comment in: BMJ 1989 Nov 11;299(6709):1221.

Detection of conditions related to human papillomavirus. Comparison of cytology, colposcopy, histology and hybridization. Spitzer M, et al. **J Reprod Med** 1990 Jul; 35(7):697-703

COLUMBIA-SK VIRUSES see **ENCEPHALOMYOCARDITIS VIRUSES**

COMA

Life, death, and the American College of Physicians: the Cruzan case [editorial] Snyder L. **Ann Intern Med** 1990 Jun 1;112(11):802-4

Helping to die [editorial; comment] Safar P, et al. **Crit Care Med** 1990 Jul;18(7):788-9 Comment on: Crit Care Med 1990 Jul;18(7):790-1.

Allowing to die [editorial] [see comments] Truog RD. **Crit Care Med** 1990 Jul;18(7):790-1 Comment in: Crit Care Med 1990 Jul;18(7):788-9.

Conservatorship of Morrison. Barkow JM. **Issues Law Med** 1989 Fall;5(2):239-41

Should nutrition and hydration be provided to permanently unconscious and other mentally disabled persons? O'Rourke K. **Issues Law Med** 1989 Fall;5(2):181-96

Bacterial gangrene on the cheek of a comatose patient—necrotizing fasciitis or noma. Kikuchi I, et al. **J Dermatol** 1989 Jun;16(3):251-2

Persistent vegetative state and the decision to withdraw or withhold life support. Council on Scientific Affairs and Council on Ethical and Judicial Affairs. **JAMA** 1990 Jan 19;263(3):426-30 (49 ref.)

Persistent vegetative state [letter; comment] **Neurology** 1990 Feb;40(2):384-6 Comment on: Neurology 1989 Jan;39(1):125-6.

[Persistent alpha-vegetative state] Oliveira-Souza R, et al. **Arq Neuropsiquiatr** 1989 Jun;47(2):212-23 (111 ref.) (Eng. Abstr.) **(Por)**

[Clinical aspects and prognosis in comatose states in postpartum eclampsia] Leskova NN, et al. **Sov Med** 1989; (12):117-9 **(Rus)**

CEREBROSPINAL FLUID

Beta-endorphin-immunoreactivity in the ventricular CSF and plasma of comatose patients. Hamel E, et al. **Neurosurg Rev** 1989;12 Suppl 1:416-9

CHEMICALLY INDUCED

Effects of opioid receptor antagonists on morphine-induced stupor in rabbits. Fišerová M, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):131-2

Differential diagnostic value and influence on EEG of Anexate (Flumazenil, Ro 15-1788) in benzodiazepine-intoxication. A case report. Gijsenbergh FP, et al. **Acta Anaesthesiol Belg** 1989;40(2):127-9

Alpha coma and barbiturate poisoning [see comments] de Boer WB, et al. **Anaesth Intensive Care** 1989 Nov; 17(4):503-4 Comment in: Anaesth Intensive Care 1990 May;18(2):278-9.

Alpha coma—comment [letter; comment] Sutton D. **Anaesth Intensive Care** 1990 May;18(2):278-9 Comment on: Anaesth Intensive Care 1989 Nov;17(4):503-4.

The diagnostic utility of flumazenil (a benzodiazepine antagonist) in coma of unknown etiology. Burkhart KK, et al. **Ann Emerg Med** 1990 Mar;19(3):319-21

Nonsteroidal anti-inflammatory drugs and coma: a case report of fenoprofen overdose. Kolodzik JM, et al. **Ann Emerg Med** 1990 Apr;19(4):378-81

Methanol poisoning: factors associated with neurologic complications. Anderson TJ, et al. **Can J Neurol Sci** 1989 Nov;16(4):432-5

Early blindness and coma during intrathecal chemotherapy for meningeal carcinomatosis. Boogerd W, et al. **Cancer** 1990 Feb 1;65(3):452-7

The respiratory response to CO2 and O2 in patients with coma due to voluntary intoxication with barbiturates and carbamates. Launois S, et al. **Eur Respir J** 1990 May; 3(5):566-72

The transition between apnoea and spontaneous ventilation in patients with coma due to voluntary intoxication with barbiturates and carbamates. Launois S, et al. **Eur Respir J** 1990 May;3(5):573-8

Cerebral embolization and coma after hysterosalpingography with oil-soluble contrast medium. Dan U, et al. **Fertil Steril** 1990 May;53(5):939-40

Collapse and coma. el-Harasis A, et al. **Hosp Pract [Off]** 1990 May 15;25(5):16-7

Largactil in pyogenic meningitis (relapse case) [letter] Singh BJ. **J Assoc Physicians India** 1989 Jul;37(7):475

Lithium toxicity and myxedema coma in an elderly woman. Santiago R, et al. **J Emerg Med** 1990 Jan-Feb;8(1):63-6 (33 ref.)

Delayed postoperative neurological deterioration from prolonged sodium nitroprusside administration. Case report. Ram Z, et al. **J Neurosurg** 1989 Oct;71(4):605-7

Severe self-poisoning with oxetorone: report of one case. Galerneau V, et al. **J Toxicol Clin Toxicol** 1990;28(1):111-6

Ingestion of cannabis: a cause of coma in children. Macnab A, et al. **Pediatr Emerg Care** 1989 Dec;5(4):238-9

Efficacy of barbiturates in the treatment of resistant intracranial hypertension in severely head-injured children. Pittman T, et al. **Pediatr Neurosci** 1989;15(1):13-7

[Acute cyanide poisoning in an infant] Haasnoot K, et al. **Ned Tijdschr Geneeskd** 1989 Sep 2;133(35):1753-6 (Eng. Abstr.) **(Dut)**

[Hypocalcemic hypomagnesemic coma after carboplatin (letter)] Beuzeboc P, et al. **Presse Med** 1989 Sep 2-9; 18(27):1343-4 **(Fre)**

[Reversible coma after bronchoscopy attributed to lidocaine overdose] Normand de La Tranchade M, et al. **Rev Pneumol Clin** 1990;46(1):44-5 **(Fre)**

[Coma—accidental poisoning occurring in the isoniazid + rifampicin treatment of a 7-year-old child] Murgoci G. **Rev Ig [Pneumoftiziol]** 1989 Apr-Jun;38(2):149-56 **(Rum)**

[Flunitrazepam: a cause of coma with brainstem dysfunction simulating structural damage (letter)] Ascensión A, et al. **Rev Clin Esp** 1989 Nov;185(7):379 **(Spa)**

COMPLICATIONS

Abdominal CT in children with neurological impairment following blunt trauma—abdominal CT in comatose children [letter; comment] Poggetti R, et al. **Ann Surg** 1990 Jul;212(1):118-20 Comment on: Ann Surg 1989 Aug;210(2):229-33.

Audit of transfer of unconscious head-injured patients to a neurosurgical unit [published erratum appears in Lancet 1990 Mar 3;335(8688):554] [see comments] Gentleman D, et al. **Lancet** 1990 Feb 10;335(8685):330-4 Comment in: Lancet 1990 Mar 10;335(8689):608.

Multiple injuries: coma and fractures of the extremities. Sanker P, et al. **Neurosurg Rev** 1989;12 Suppl 1:51-4

[Heterotopic ossification and ulnar nerve compression syndrome of the elbow. A report of two cases] Della Santa DR, et al. **Ann Chir Main Memb Super** 1990;9(1):38-41 (Eng. Abstr.) **(Fre)**

[Reversal of postanoxia coma by flumazenil (letter)] Nguyen Ngoc Qui, et al. **Presse Med** 1990 Jul 7-14;19(27):1284-5 **(Fre)**

[Disseminated polyneuropathy after coma] Grahmann F, et al. **Dtsch Med Wochenschr** 1989 Oct 27;114(43):1658-61 (Eng. Abstr.) **(Ger)**

[Diffuse traumatic cerebral injuries in children] Sganzerla EP, et al. **Minerva Anestesiol** 1989 Apr;55(4):177-81 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Coma scales in pediatric practice. Yager JY, et al. **Am J Dis Child** 1990 Oct;144(10):1088-91

Brain death and the persistent vegetative state: similarities and contrasts. Young B, et al. **Can J Neurol Sci** 1989 Nov; 16(4):388-93 (61 ref.)

Early prognosis in anoxic coma: an analysis of the major

clinical criteria. DeGiorgio CM, et al. **Issues Law Med** 1989 Fall;5(2):141–64

Cerebral malaria: what is unarousable coma? [letter] [see comments] Leaver RJ, et al. **Lancet** 1990 Jan 6; 335(8680):44–5 Comment in: Lancet 1990 Feb 24;335(8687):472.

Cerebral malaria: what is unarousable coma? [letter; comment] Newton CR, et al. **Lancet** 1990 Feb 24; 335(8687):472 Comment on: Lancet 1990 Jan 6;335(8680):44–5.

The clinical features of cerebral malaria in children. Molyneux ME. **Med Trop (Mars)** 1990 Jan–Mar;50(1):65–8

Rapid evaluation of comatose patients. Alguire PC. **Postgrad Med** 1990 May 1;87(6):223–8, 233

[A post-traumatic locked-in syndrome with delayed onset] Orenstein M, et al. **Cah Anesthesiol** 1990 Mar;38(2):87–90 (Eng. Abstr.) (Fre)

[The use of flumazenil at a pediatric surgical resuscitation unit] Sfez M, et al. **Cah Anesthesiol** 1989 Oct;37(6):439–41 (Fre)

[An aggressive surgical approach in comatose patients. Analysis of data from a newly created neurotraumatology department] Simunović VJ, et al. **Med Arh** 1988;42(3):113–8 (Eng. Abstr.) (Scr)

DRUG THERAPY

50% dextrose: antidote or toxin? Browning RG, et al. **Ann Emerg Med** 1990 Jun;19(6):683–7 (45 ref.)

Reversal of prolonged isoniazid-induced coma by pyridoxine. Brent J, et al. **Arch Intern Med** 1990 Aug;150(8):1751–3

Coma blisters: report and review. Dunn C, et al. **Cutis** 1990 Jun;45(6):423–6

EPIDEMIOLOGY

The risk of intracranial complications in pediatric head injury. Results of multivariate analysis. Chan KH, et al. **Childs Nerv Syst** 1990 Jan;6(1):27–9

ETIOLOGY

Hyperglycemic acidosis with mortality in Kearns–Sayre syndrome [letter] Welch E, et al. **Am J Dis Child** 1989 Oct;143(10):1135–6

Systemic Torulopsis glabrata infection causing shock, fever and coma. Katz D, et al. **Am J Med** 1967 Jul;43(1):151–2

Methemoglobinemia as a cause of coma. Caudill L, et al. **Ann Emerg Med** 1990 Jun;19(6):677–9

Comatose patients smelling of alcohol [letter; comment] **BMJ** 1989 Sep 2;299(6699):621 Comment on: BMJ 1989 Aug 12;299(6696):410.

Comatose patients smelling of alcohol [letter; comment] **BMJ** 1989 Sep 23;299(6702):790–1 Comment on: BMJ 1989 Aug 12;299(6696):410.

Comatose patients smelling of alcohol [editorial] [see comments] Quaghebeur G, et al. **BMJ** 1989 Aug 12; 299(6696):410 Comment in: BMJ 1989 Sep 2;299(6699):621. Comment in: BMJ 1989 Sep 23;299(6702):790–1.

Intraventricular haematoma: management of comatose patients with valve regulated external ventricular drainage. Chan KH, et al. **Br J Neurosurg** 1988;2(4):465–9

Thyroid disease in the emergency department. Thyroid function tests and hypothyroidism and myxedema coma. Mitchell JM. **Emerg Med Clin North Am** 1989 Nov; 7(4):885–902 (75 ref.)

Recovery from coma that results as a complication of cardiac arrest followed by cardiopulmonary bypass. Hall LT. **Heart Lung** 1989 Nov;18(6):559–64

Characterization of axonal injury produced by controlled cortical impact. Lighthall JW, et al. **J Neurotrauma** 1990 Summer;7(2):65–76

Dangerous synergism between sedatives and a hyponatraemic state. Lichtigfeld FJ, et al. **J R Soc Med** 1990 Mar;83(3):185

Metabolic coma [clinical conference] Kleeman CR. **Kidney Int** 1989 Dec;36(6):1142–58 (77 ref.)

Hyperammonemia in women with a mutation at the ornithine carbamoyltransferase locus. A cause of postpartum coma [see comments] Arn PH, et al. **N Engl J Med** 1990 Jun 7;322(23):1652–5 Comment in: N Engl J Med 1990 Jun 7;322(23):1668–70.

CPR—do we sometimes try too hard? Curtis LR. **Postgrad Med** 1990 Jul;88(1):42–4

Hyperammonaemic coma in ureterosigmoid urinary diversion. Oliver RM, et al. **Postgrad Med J** 1989 Jul; 65(765):502–4

Clinical features and prognostic indicators in paediatric cerebral malaria: a study of 131 comatose Malawian children [see comments] Molyneux ME, et al. **Q J Med** 1989 May;71(265):441–59 Comment in: Q J Med 1989 May;71(265):369–71.

[Anoxic coma after circulatory arrest: prospective study of intracranial pressure and cerebral perfusion pressure (apropos of 84 cases)] Gueugniaud PY, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R39 (Fre)

[Contribution of the EEG and evoked potentials in the prognosis of post-anoxic comas in children] Parain D, et al. **Neurophysiol Clin** 1989 Dec;19(6):489–94 (Eng. Abstr.) (Fre)

[Recurrent non-diabetic acido-ketotic coma. Apropos of a case] Lemouchi D, et al. **Pediatrie** 1989;44(4):335–7 (Eng. Abstr.) (Fre)

[A full-term pregnancy at an intensive care unit after rupture of an intracranial aneurysm complicated by coma and meningitis (letter)] Salord F, et al. **Presse Med** 1989 Nov 25;18(39):1931 (Fre)

[Unconsciousness—coma—apallic syndrome. 1: Diagnosis and differential diagnosis] von Albert HH. **Fortschr Med** 1990 Jan 30;108(3):45–6 (Ger)

[Hypomagnesemic coma in heart failure: description of a case] Voci P, et al. **Cardiologia** 1990 Jan;35(1):79–81 (Eng. Abstr.) (Ita)

[Suppurative meningitis and meningoencephalitis in patients over 60 years of age] Kępa L, et al. **Przegl Epidemiol** 1989; 43(3):301–6 (Eng. Abstr.) (Pol)

[Surgical treatment of patients with cranio-cerebral trauma and the role of neurological symptoms in the prognosis of its outcomes] Mamadaliev AM, et al. **Vestn Khir** 1989 May;142(5):68–72 (Eng. Abstr.) (Rus)

GENETICS

Familial migraine coma: a case study. Münte TF, et al. **J Neurol** 1990 Feb;237(1):59–61

METABOLISM

Relationship of early cerebral blood flow and metabolism to outcome in acute head injury. Jaggi JL, et al. **J Neurosurg** 1990 Feb;72(2):176–82

[Study of cerebral energy metabolism and development of postanoxia coma] Génestal M, et al. **Ann Fr Anesth Reanim** 1990;9(3):220–6 (Eng. Abstr.) (Fre)

MORTALITY

Value of a revised EEG coma scale for prognosis after cerebral anoxia and diffuse head injury. Synek VM. **Clin Electroencephalogr** 1990 Jan;21(1):25–30

NURSING

The biology of the persistent vegetative state, legal and ethical implications for transplantation: viewpoints from nursing. Keatings M. **Transplant Proc** 1990 Jun;22(3):997–9

PHYSIOPATHOLOGY

Inspection of the oral cavity [letter] Watson D. **Arch Emerg Med** 1989 Sep;6(3):234

Triphasic waves in endocarditis. Ghanem Q, et al. **Clin Electroencephalogr** 1990 Jan;21(1):37–41

Periodic complexes and alternating rotatory nystagmus with cyclic pupillary changes. Jacome DE. **Clin Electroencephalogr** 1989 Oct;20(4):262–5

Unreactive EEG: pattern in locked-in syndrome. Jacome DE, et al. **Clin Electroencephalogr** 1990 Jan;21(1):31–6

Spindle coma: observations and thoughts. Nogueira de Melo A, et al. **Clin Electroencephalogr** 1990 Jul;21(3):151–61

Transition from alpha to theta pattern coma in fatal cerebral anoxia. Synek VM, et al. **Clin Exp Neurol** 1988;25:109–13

Validity of a revised EEG coma scale for predicting survival in anoxic encephalopathy. Synek VM. **Clin Exp Neurol** 1989;26:119–27

Effects of long-term amantadine treatment on clinical symptoms and EEG of a patient in a vegetative state. Horiguchi J, et al. **Clin Neuropharmacol** 1990 Feb; 13(1):84–8

Effects of auditory stimuli on comatose patients with head injury. Sisson R. **Heart Lung** 1990 Jul;19(4):373–8

Rhythmic coma in children. Horton EJ, et al. **J Child Neurol** 1990 Jul;5(3):242–7

Your questions. Maiti B. **J Indian Med Assoc** 1990 Jan; 88(1):27–8

Estimation of CBF by cerebral venous oxygen difference [letter; comment] Gilbert J. **J Neurosurg** 1989 Nov;71(5 Pt 1):790–1 Comment on: J Neurosurg 1989 Feb;70(2):222–30.

Outcome in 134 patients with prolonged posttraumatic unawareness. Part 2: Functional outcome of 72 patients recovering consciousness. Groswasser Z, et al. **J Neurosurg** 1990 Jan;72(1):81–4

Outcome in 134 patients with prolonged posttraumatic unawareness. Part 1: Parameters determining late recovery of consciousness. Sazbon L, et al. **J Neurosurg** 1990 Jan; 72(1):75–80

Early prognosis in anoxic coma. Reliability and rationale. Shewmon DA, et al. **Neurol Clin** 1989 Nov;7(4):823–43

Regional cerebral blood flow in the persistent vegetative state. Sato M, et al. **Neurol Med Chir (Tokyo)** 1989 May; 29(5):389–94

Multiple injuries: follow-up. auf der Haar K, et al. **Neurosurg Rev** 1989;12 Suppl 1:139–42

Chronic vegetative state after severe head injury: clinical study; electrophysiological investigations and CT scan in 15 cases. Danze F, et al. **Neurosurg Rev** 1989;12 Suppl 1:477–99

Multimodality evoked potentials and early prognosis in comatose patients. Firsching R, et al. **Neurosurg Rev** 1990; 13(2):141–6 (27 ref.)

Evoked potentials in post-traumatic coma. Lorenz M, et al. **Neurosurg Rev** 1989;12 Suppl 1:322–7

Multiple injuries in children. Seliger B, et al. **Neurosurg Rev** 1989;12 Suppl 1:59–62

Normal somatosensory evoked potentials in a child in persistent coma. Tsao CY, et al. **Pediatr Neurol** 1989 Jul–Aug;5(4):257–8

Physical and intellectual recovery following prolonged hypoxic coma. Falk RH. **Postgrad Med J** 1990 May; 66(775):384–6

Cerebrovascular reactivity to CO2 in patients with hepatic or septic encephalopathy. Sari A, et al. **Resuscitation** 1990 Apr;19(2):125–34

The biology of the persistent vegetative state: legal, ethical, and philosophical implications for transplantation. Downie J. **Transplant Proc** 1990 Jun;22(3):995–6

The persistent vegetative state. Ivan LP. **Transplant Proc** 1990 Jun;22(3):993–4

[Early somatosensory and auditory evoked potentials in anoxic coma. Role in evaluating and prognostic value] Sonnet ML, et al. **Presse Med** 1990 Feb 3;19(4):166–9 (Eng. Abstr.) (Fre)

[Cognitive processes in unconscious patients? A brain mapping study of the P300 potential] Reuter BM, et al. **Arch Psychol (Frankf)** 1989;141(3):155–73 (Eng. Abstr.) (Ger)

[Multimodal evoked potentials and heart rate variability in comatose patients. 3. Electrophysiologic findings in inflammatory diseases of the brain] Schwarz G, et al. **EEG EMG** 1990 Mar;21(1):35–41 (Eng. Abstr.) (Ger)

[5 patients in irreversible coma in which it was not possible to remove the organs for therapeutic transplant] Ballaris MA, et al. **Minerva Anestesiol** 1989 Oct;55(10):403–7 (Eng. Abstr.) (Ita)

[Anterior pituitary function in the vegetative state] Yoshimoto H, et al. **Neurol Med Chir (Tokyo)** 1989 Jun; 29(6):490–5 (Eng. Abstr.) (Jpn)

[Hanging survivor showing alpha coma—a case report] Satoh J, et al. **Rinsho Shinkeigaku** 1989 May;29(5):612–6 (Eng. Abstr.) (Jpn)

[Changes in the electrocardiogram in patients with coma due to poisoning] Duraković Z, et al. **Acta Med Iugosl** 1989; 43(4):287–94 (Eng. Abstr.) (Scr)

["Alpha" coma. A clinico-electroencephalographic review] Pérez Cid JL, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Nov–Dec;17(6):417–8 (Eng. Abstr.) (Spa)

[Flat electroencephalogram with pupillary miosis (letter)] Ramírez Pérez A, et al. **Neurologia** 1989 Jan–Feb;4(1):31–2 (Spa)

[Evaluation of post-traumatic coma using evoked potentials (published erratum appears in Rev Esp Anestesiol Reanim 1990 Mar–Apr;37(2):66)] Vilalta J, et al. **Rev Esp Anestesiol Reanim** 1989 Sep–Oct;36(5):255–9 (Eng. Abstr.) (Spa)

PSYCHOLOGY

Exile and PVS. Schneiderman LJ. **Hastings Cent Rep** 1990 May–Jun;20(3):5

The concept of self in the context of crisis: a study of families of the severely brain-injured. Mwaria CB. **Soc Sci Med** 1990;30(8):889–93

[A different approach to the comatose patient] Pheline C, et al. **Agressologie** 1989 Nov–Dec;30(11–12):567–70 (Eng. Abstr.) (Fre)

RADIOGRAPHY

Computed tomography in the assessment of raised intracranial pressure in non-traumatic coma. Tasker RC, et al. **Neuropediatrics** 1990 May;21(2):91–4

[Computerized tomography and clinical findings in severe cerebral hypoxidoses. On the differential diagnosis of cerebral and extracerebral coma] Krüger GG. **Nervenarzt** 1989 Nov;60(11):693–9 (Ger)

RADIONUCLIDE IMAGING

Effect of cervical spinal cord stimulation (cSCS) on cerebral glucose metabolism and blood flow in a vegetative patient assessed by positron emission tomography (PET) and single photon emission computed tomography (SPECT). Momose T, et al. **Radiat Med** 1989 Sep–Oct;7(5):243–6

REHABILITATION

Coma arousal procedure: a therapeutic intervention in the treatment of head injury. Mitchell S, et al. **Brain Inj** 1990 Jul–Sep;4(3):273–9

The effectiveness of coma arousal intervention. Pierce JP, et al. **Brain Inj** 1990 Apr–Jun;4(2):191–7

Spark of life. Jones CP. **Geriatr Nurs (New York)** 1990 Jul–Aug;11(4):194–6

THERAPY

US Supreme Court to hear first 'right-to-die' case. Murphy EK. **AORN J** 1990 May;51(5):1391–4

No decision on Cruzan? [news] Gauri V. **Hastings Cent Rep** 1990 Mar–Apr;20(2):2–3

PVS: persistent vegetative state [editorial] Reppun JI. **Hawaii Med J** 1990 May;49(5):149, 151

The Nancy Cruzan case. Weir R. **Iowa Med** 1990 Mar; 80(3):136

Should nutrition and hydration be provided to permanently unconscious and other mentally disabled persons? Grisez G. **Issues Law Med** 1989 Fall;5(2):165–79

Behavioral treatment of children after severe head injury: a pilot study. Pruneti CA, et al. **Ital J Neurol Sci** 1989 Oct;10(5):491–8

The case of Ms. Nancy Cruzan and the care of the elderly. Glover JJ. **J Am Geriatr Soc** 1990 May;38(5):588–93

Where am I? Music therapy applied to coma patients [editorial] Aldridge D, et al. **J R Soc Med** 1990 Jun; 83(6):345–6

[Clinical actions in patients in a chronic coma; a contribution from nursing home medicine] Lavrijsen JC, et al. **Ned Tijdschr Geneeskd** 1990 Aug 11;134(32):1529–32 **(Dut)**

[Unconsciousness—coma—apallic syndrome. 2: Principles of therapy] von Albert HH. **Fortschr Med** 1990 Feb 10; 108(4):67–8 **(Ger)**

[Effects and indications of spinal cord stimulation on the vegetative syndrome] Funahashi K, et al. **No Shinkei Geka** 1989 Oct;17(10):917–23 (Eng. Abstr.) **(Jpn)**

[Treatment of vegetative status with dorsum column stimulation] Yokoyama T, et al. **No Shinkei Geka** 1990 Jan; 18(1):39–45 (Eng. Abstr.) **(Jpn)**

VETERINARY

Intracranial dysfunctions: stupor and coma. Dayrell-Hart B, et al. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1209–22 (14 ref.)

COMB AND WATTLES

ANALYSIS

Glycosaminoglycans from the rooster comb and wattle. Nakano T, et al. **Poult Sci** 1989 Sep;68(9):1303–6

COMBAT DISORDERS see under **STRESS DISORDERS, POST-TRAUMATIC**

COMBINATION CHEMOTHERAPY see **DRUG THERAPY, COMBINATION**

COMBINATIONS, ANTIBIOTIC see **ANTIBIOTICS, COMBINED**

COMBINED CARBOXYLASE DEFICIENCY see **MULTIPLE CARBOXYLASE DEFICIENCY**

COMBINED MODALITY THERAPY

Concomitant continuous infusion chemotherapy and radiation. Rotman M, et al. **Cancer** 1990 Feb 1;65(3 Suppl):823–35 (102 ref.)

[Goals, results and limitations of multimodal tumor therapy] Brunner KW. **Schweiz Med Wochenschr** 1990 Aug 7; 120(31–32):1129–34 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Impact on second malignancy risk of the combined use of radiation and chemotherapy for lymphomas. Lavey RS, et al. **Cancer** 1990 Jul 1;66(1):80–8

COMBINING SITE see **BINDING SITES**

COMMERCE

International aspects of the control of animal listeriosis. Bind JL. **Acta Microbiol Hung** 1989;36(2–3):91–4

Tuberculosis in commerce and industry in a Western Cape suburb, South Africa, 1987. Kistnasamy B, et al. **Am J Ind Med** 1990;18(1):87–93

Impact of the working environment upon the state of health of the dockers handling dusty materials (with a special regard to respiratory and circulatory system). Renke W. **Bull Inst Marit Trop Med Gdynia** 1988;39(3–4):165–9

Pharmacists and tobacco: dollars before duty. Gibson B. **Can Med Assoc J** 1990 Mar 15;142(6):621–2

Boycotting pharmacies that sell tobacco products [letter] Pinsky N. **Can Med Assoc J** 1990 Jan 15;142(2):97

Cigarette sales to minors in Colorado. Young W, et al. **Colo Med** 1990 Jul;87(7):181–2

Neck and shoulder muscle activity during work with different cash register systems. Lannersten L, et al. **Ergonomics** 1990 Jan;33(1):49–65

National health insurance gains new ally: business. Droste T. **Hospitals** 1989 Dec 20;63(24):54

Are hospitals becoming too businesslike? Seaver D. **Hospitals** 1990 Feb 20;64(4):86

Baxter sews up market with needle-free system. Souhrada L. **Hospitals** 1990 Mar 5;64(5):48

The pitfalls of free enterprise health care. Williams W. **Hospitals** 1990 Jul 20;64(14):64

Availability of tobacco products to minors. Hoppock KC, et al. **J Fam Pract** 1990 Feb;30(2):174–6

The illegal sale of cigarettes to minors in Oregon. Thomson B, et al. **J Fam Pract** 1990 Aug;31(2):206–8

Providing experimental therapies as a commercial venture fails [news] McIntosh H. **J Natl Cancer Inst** 1990 Jan 17; 82(2):84–7

Preliminary report: isolation of Ebola virus from monkeys imported to USA. Jahrling PB, et al. **Lancet** 1990 Mar 3; 335(8688):502–5

Is Aedes albopictus in Australia? Kay BH, et al. **Med J Aust** 1990 Jul 2;153(1):31–4

Physicians and entrepreneurship [letter; comment] **N Engl J Med** 1989 Oct 26;321(17):1192–4 Comment on: N Engl J Med 1989 May 11;320(19):1275–8.

Industrial marketing and medical ethics [letter; comment] **N Engl J Med** 1990 Jan 4;322(1):64 Comment on: N Engl J Med 1989 Jun 22;320(25):1690–2.

Biotechnology. Little apparent interest in Celltech sell-off. Aldhous P. **Nature** 1990 May 10;345(6271):102

Biotechnology. Mixed reactions to merger [news] Gershon D. **Nature** 1990 Feb 22;343(6260):681

Swiss company takes a 60 per cent stake in Genentech [news] Gershon D. **Nature** 1990 Feb 8;343(6258):495

Genentech shares. Allegation of insider dealing [news] Gershon D. **Nature** 1990 May 10;345(6271):102

Eat for health: a nutrition and cancer control supermarket intervention. Light L, et al. **Public Health Rep** 1989 Sep–Oct;104(5):443–50

Trade implications of international differences in toxicological regulations [editorial] Carr CJ, et al. **Regul Toxicol Pharmacol** 1989 Dec;10(3):203

Biotechnology on the auction block [news] Barinaga M. **Science** 1990 Feb 23;247(4945):906–8

The underwriter/medical director relationship. Johnson DR. **Trans Assoc Life Insur Med Dir Am** 1990;73:134–7

Medical director/underwriter relationship in a large company. Woodman HA Jr. **Trans Assoc Life Insur Med Dir Am** 1990;73:138–43

Ethics and commerce in live donor renal transplantation: classification of the issues. Daar AS, et al. **Transplant Proc** 1990 Jun;22(3):922–4

[Consequences of free trade in live animals] van der Meijs CC. **Tijdschr Diergeneeskd** 1990 Jan 1;115(1):10–5 **(Dut)**

[Consequences of free trade in food stuff of animal origin] van Hoogstraten S. **Tijdschr Diergeneeskd** 1990 Jan 1; 115(1):16–21 **(Dut)**

[Mammon's realm or Pluto's reign—is it commercialism or random decisions that determines the distribution of physicians?] Olsen B. **Tidsskr Nor Laegeforen** 1990 Jun 30; 110(17):2182–3 **(Nor)**

ECONOMICS

Business leaders bring their clout to Washington. Burke M. **Hospitals** 1990 Apr 20;64(8):32–6, 38, 40–2

Why the tobacco industry fears the passive smoking issue. Chapman S, et al. **Int J Health Serv** 1990;20(3):417–27

High mortality among recipients of bought living-unrelated donor kidneys. Salahudeen AK, et al. **Lancet** 1990 Sep 22; 336(8717):725–8

EDUCATION

Business and nursing programs combine. **J Nurs Adm** 1990 May;20(5):32, 40

HISTORY

[Sociological and psychological aspects of commercial exchange transactions in the Auschwitz-Birkenau concentration camp] Kłodziński S, et al. **Przegl Lek** 1990; 47(1):50–77 **(Pol)**

LEGISLATION & JURISPRUDENCE

Ministerial madness avoided [news] Aldhous P. **Nature** 1990 Jun 14;345(6276):566

Conflict of interest: PHS readies new rules [news] Palca J. **Science** 1990 Sep 14;249(4974):1237

Commercialization in human organs: a middle eastern perspective. Abouna GM, et al. **Transplant Proc** 1990 Jun; 22(3):918–21

The commercial use of cultivated human cells. Bell E, et al. **Transplant Proc** 1990 Jun;22(3):971–4

Values sacrificed and values gained by the commerce of organs: the Argentine experience. Cantarovich F. **Transplant Proc** 1990 Jun;22(3):925–7

Human rights and commerce in health care. Dickens BM. **Transplant Proc** 1990 Jun;22(3):904–5

Organ commerce: ethics and expediency. Sells RA. **Transplant Proc** 1990 Jun;22(3):931–2

The practice of unconventional renal transplantation (UCRT) at a single centre in India. Thiagarajan CM, et al. **Transplant Proc** 1990 Jun;22(3):912–4

ORGANIZATION & ADMINISTRATION

Occupational risks of chemical use may be greater in small businesses. Bex TA. **Occup Health Saf** 1990 Feb; 59(2):39–43, 60

TRENDS

The opium wars revisited as US forces tobacco exports in Asia. Chen TT, et al. **Am J Public Health** 1990 Jun; 80(6):659–62

Vendor shakeups may rock hospital systems. Hard R. **Hospitals** 1990 Apr 5;64(7):57

Countdown to millennium—balancing the professionalism and business of medicine. Medicine's Rocking Horse [editorial] Lundberg GD. **JAMA** 1990 Jan 5;263(1):86–7

Values gained and lost in live unrelated renal transplantation. Johny KV, et al. **Transplant Proc** 1990 Jun;22(3):915–7

Unconventional renal transplantation in India. Reddy KC, et al. **Transplant Proc** 1990 Jun;22(3):910–1

Transplantation as a health priority in India. Yadav RV. **Transplant Proc** 1990 Jun;22(3):908–9

COMMERCIAL OILS see **INDUSTRIAL OILS**

COMMISSION ON PROFESSIONAL AND HOSPITAL ACTIVITIES see under **MEDICAL AUDIT**

COMMITMENT OF MENTALLY ILL

see related
PATIENT ADVOCACY

Risk factors for aggressive behaviour are of limited value in predicting the violent behaviour of acute involuntarily admitted patients. Palmstierna T, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):152–5

The involvement of Soviet psychiatry in the persecution of dissenters. Koryagin A. **Br J Psychiatry** 1989 Mar; 154:336–40; discussion 339–40

Community care and the difficult and offender patient. Scannell TD. **Br J Psychiatry** 1989 May;154:615–9 (39 ref.)

The prediction of violent behavior during short-term civil commitment. Kirk A. **Bull Am Acad Psychiatry Law** 1989; 17(4):345–53

Stigma is in the eye of the beholder: a hospital outreach program for treating homeless mentally ill people. Cohen NL. **Bull Menninger Clin** 1990 Spring;54(2):253–8

AIDS: clinical and ethical issues on a psychiatric unit. Hoffman BF, et al. **Can J Psychiatry** 1989 Dec;34(9):847–52

Voluntary and involuntary schizophrenic patient admissions on the same general hospital psychiatric unit. Arcuni OJ, et al. **Gen Hosp Psychiatry** 1989 Nov;11(6):393–6

Smokers' civil rights [letter; comment] Coleman T. **Hosp Community Psychiatry** 1990 Feb;41(2):198–9 Comment on: Hosp Community Psychiatry 1989 May;40(5):525–7.

Team use of the Global Assessment Scale for inpatient planning and evaluation. Kuhlman TL, et al. **Hosp Community Psychiatry** 1990 Apr;41(4):416–9

The challenge of therapy in the public sector. Wile JR. **Hosp Community Psychiatry** 1989 Sep;40(9):963–4

Psychiatric commitment of the elderly. Blank K, et al. **J Geriatr Psychiatry Neurol** 1989 Jul–Sep;2(3):140–4

Social disability and clinical symptomatology in schizophrenia: their impact on compulsory admission. Rossi A, et al. **Psychopathology** 1989;22(4):177–81

A study of police referrals to Woodbridge Hospital. Sim LP, et al. **Singapore Med J** 1990 Apr;31(2):131–4

[Hospitalization of the mentally ill without their consent in the USSR] Baštecký J. **Cesk Psychiatr** 1990 Apr; 86(2):108–12 (Eng. Abstr.) **(Cze)**

[Admission of patients with dementia to a psychiatric hospital. Social circumstances, circumstances of admission, treatment and further referral] Jørgensen O, et al. **Ugeskr Laeger** 1990 Jan 22;152(4):232–5 (Eng. Abstr.) **(Dan)**

[Long-term clinical follow-up (2 years) of 78 patients hospitalized in a crisis situation] Andreoli A, et al. **Schweiz Arch Neurol Psychiatr** 1989;140(5):439–58 **(Eng. Abstr.)** **(Fre)**

[Inpatient psychiatric treatment of borderline patients] Pfitzer F, et al. **Nervenarzt** 1990 May;61(5):294–300 **(Ger)**

[Psychiatric security hospitals] Béliveau L. **Seishin Shinkeigaku Zasshi** 1988;90(3):259–62 **(Jpn)**

[Procedures in connection with admission to psychiatric hospitals/departments] Gunby B. **Tidsskr Nor Laegeforen** 1990 Jun 10;110(15):1963–4 **(Nor)**

[The law of compulsory treatment of psychotic, somatically ill patients with HIV-1 infections] Alexius B, et al. **Lakartidningen** 1989 Nov 15;86(46):4020 **(Swe)**

[Medical ethics. Social medicine and moral philosophy—an analysis of mandatory psychiatric care] Nilstun T, et al. **Lakartidningen** 1990 Apr 25;87(17):1486–90 **(Swe)**

[Forensic psychiatry, compulsory care and ethics] Ojesjö L. **Lakartidningen** 1990 Jun 20;87(25):2192–3 **(Swe)**

HISTORY

O'Connorite Bedlam: Feargus and his grand-nephew, Arthur. Geary LM. **Med Hist** 1990 Apr;34(2):125–43

Madness at the crossroads: John Home's letters from the Royal Edinburgh Asylum, 1886–87. Barfoot M, et al. **Psychol Med** 1990 May;20(2):263–84

LEGISLATION & JURISPRUDENCE

Psychiatric evidence: a study of psychological issues. Guðjónsson GH, et al. **Acta Psychiatr Scand** 1989 Aug; 80(2):165–9

Relationship between involuntary admission and the therapeutic process in a closed ward functioning as a therapeutic community. Isohanni M, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):240–4

Some ethical considerations in defensive psychiatry: a case study. Brown J, et al. **Am J Orthopsychiatry** 1989 Oct; 59(4):534–41

Avoiding negligent release: contemporary clinical and risk management strategies. Poythress NG Jr. **Am J Psychiatry** 1990 Aug;147(8):994–7

Screening and evaluating individuals held in protective custody under Title 47 in southwestern Alaska. Hite VL. **Arctic Med Res** 1988;47 Suppl 1:585–7

The madness of Mental Health Acts. Ellard J. **Aust N Z J Psychiatry** 1990 Jun;24(2):167–74

Community treatment orders [letter; comment] Rees N. **Aust N Z J Psychiatry** 1989 Sep;23(3):313–4 Comment on: Aust N Z J Psychiatry 1989 Jun;23(2):162–3.

Mental Health Act 1983: guardianship order and definition of mental impairment [letter] Singh TH. **BMJ** 1989 Nov 18;299(6710):1284

A transition period in psychiatric care in Italy ten years after the reform. Crepet P. **Br J Psychiatry** 1990 Jan;156:27–36

Psychiatric justice [see comments] Szasz T.
Br J Psychiatry 1989 Jun;154:864–9 Comment in: Br J Psychiatry 1989 Jun;154:870–1.

Szasz on psychiatric justice [comment] West DJ.
Br J Psychiatry 1989 Jun;154:870–1 Comment on: Br J Psychiatry 1989 Jun;154:864–9.

Right to refuse treatment: impact of Rivers v. Katz. Ciccone JR, et al. **Bull Am Acad Psychiatry Law** 1990;18(2):203–15

Civil commitment: a range of patient attitudes. Edelsohn GA, et al. **Bull Am Acad Psychiatry Law** 1990;18(1):65–77

American forensic psychiatrists who work in state institutions. Harry B, et al.
Bull Am Acad Psychiatry Law 1990;18(1):99–106

DSM-III diagnoses and offenses in committed female juvenile delinquents. Myers WC, et al.
Bull Am Acad Psychiatry Law 1990;18(1):47–54

The attitudes toward committal of patients hospitalized in a psychiatric facility for the first time. Conlon P, et al. **Can J Psychiatry** 1990 May;35(4):324–7

Competence to consent to treatment: a guide for the psychiatrist. Draper RJ, et al. **Can J Psychiatry** 1990 May; 35(4):285–9

The impact of the amended Ontario Mental Health Act (Bill 7) on patients discharging themselves from hospital against medical advice (AMA): a preliminary study. Fernando ML, et al. **Can J Psychiatry** 1990 Feb;35(1):77–9

Double standards of practice? [letter; comment] Finlayson R. **Can J Psychiatry** 1990 May;35(4):365 Comment on: Can J Psychiatry 1989 Oct;34(7):746–7.

Appointment of patient's representative: double standards of practice? [see comments] Manchanda R.
Can J Psychiatry 1989 Oct;34(7):746–7 Comment in: Can J Psychiatry 1990 May;35(4):365.

The ethics of involuntary hospitalization and treatment of mentally ill persons [letter] Matas M. **Can J Psychiatry** 1989 Dec;34(9):945–7

The validity of commitment certificates in British Columbia. Paredes J, et al. **Can J Psychiatry** 1990 May;35(4):305–10

Appointment of patient's representative [letter; comment] Rapp MS. **Can J Psychiatry** 1990 May;35(4):365 Comment on: Can J Psychiatry 1989 Oct;34(7):746–7.

Characteristics of women receiving mandated treatment for alcohol or polysubstance dependence in Massachusetts. Lex BW, et al. **Drug Alcohol Depend** 1990 Feb;25(1):13–20

The operation of the Mental Health (Scotland) Act 1984 in one psychiatric hospital. McCreadie RG.
Health Bull (Edinb) 1989 Jul;47(4):204–6

The dangerousness standard [letter; comment] Fariello DF. **Hosp Community Psychiatry** 1989 Sep;40(9):964–5 Comment on: Hosp Community Psychiatry 1989 Mar;40(3):266–71.

Advocacy in Wisconsin [letter; comment] Greenley D.
Hosp Community Psychiatry 1989 Nov;40(11):1198–9 Comment on: Hosp Community Psychiatry 1989 May;40(5):453.

Family members' opinions about civil commitment. McFarland BH, et al. **Hosp Community Psychiatry** 1990 May;41(5):537–40

Treating patients "doing time": a forensic perspective. Miller RK, et al. **Hosp Community Psychiatry** 1989 Sep; 40(9):960–2

The law and the nonlegal professionals: on decision-making by medical doctors and social workers. Andenaes K.
Int J Law Psychiatry 1989;12(4):263–74

Mental illness and rationality: a critique. Pols J.
Int J Law Psychiatry 1989;12(1):71–9

Depression, the insanity defense, and civil commitment: foundations in autonomy and responsibility. Schopp RF.
Int J Law Psychiatry 1989;12(1):81–98

Sentencing the partly mad and the partly bad: the case of the hospital order in England and Wales. Verdun-Jones SN. **Int J Law Psychiatry** 1989;12(1):1–27 (105 ref.)

One year under Rivers: drug refusal in a New York State psychiatric facility. Zito JM, et al.
Int J Law Psychiatry 1989;12(4):295–306

The mentally disordered criminal offender: a description based on demographic, clinical, and MMPI data. Roman DD, et al. **J Clin Psychol** 1989 Nov;45(6):983–90

View from the nation's courts. Freishtat HW.
J Clin Psychopharmacol 1989 Dec;9(6):436–7

Compulsory admission to hospital of an alcoholic patient under the mental health act [letter] [see comments] McGhee MF. **J R Coll Gen Pract** 1989 Jul;39(324):301 Comment in: J R Coll Gen Pract 1989 Oct;39(327):434.

Compulsory admission to hospital [letter; comment] O'Connell NJ. **J R Coll Gen Pract** 1989 Oct;39(327):434 Comment on: J R Coll Gen Pract 1989 Jul;39(324):301.

The district psychiatrist: a merger of psychiatric and legal authority. Bar-El Y, et al. **Med Law** 1989;8(4):369–74

The District Psychiatrist Institution: a criticism. Levy A.
Med Law 1989;8(1):15–20

Can men who abuse children change? Saphira M.
Med Law 1989;8(2):125–9

Compulsory hospital admissions: dangerous decisions? Soothill K, et al. **Med Sci Law** 1990 Jan;30(1):17–25

The Georgia Court Competency Test: the base-rate problem. Wildman RW 2d, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):1055–8

Judicial discharge of involuntary patients. Leong GB, et al. **Psychiatr Q** 1990 Summer;61(2):135–41

Involuntary commitments to public mental institutions: issues involving the overrepresentation of blacks and assessment of relevant functioning. Lindsey KP, et al. **Psychol Bull** 1989 Sep;106(2):171–83 (160 ref.)

Automatism, medicine and the law. Fenwick P.
Psychol Med Monogr Suppl 1990;17:1–27 (102 ref.)

The role of Addington v Texas on involuntary civil commitment. Hays JR. **Psychol Rep** 1989 Dec;65(3 Pt 2):1211–5

Report of the U.S. Delegation to assess recent changes in Soviet psychiatry. **Schizophr Bull** 1989;15(4 Suppl):1–219 (Eng, Rus)

Dangerousness and commitment of the mentally disordered in the United States. Monahan J, et al. **Schizophr Bull** 1989; 15(4):541–53 (70 ref.)

On social dangerousness of mental patients. Shostakovich BV. **Schizophr Bull** 1989;15(4):555–8

[The new law on loss of liberty and other restraints in psychiatry] Reisby N. **Ugeskr Laeger** 1989 Sep 25; 151(39):2535–8 (Dan)

[Legislative draft amendments regarding psychiatry] Deniker P. **Bull Acad Natl Med** 1990 Mar;174(3):381–5; discussion 385 (Eng. Abstr.) (Fre)

[The law of informed consent and its impasses in psychiatry] Garneau Y, et al. **Can J Psychiatry** 1989 Nov;34(8):759–64 (Eng. Abstr.) (Fre)

[The doctrine of free and informed consent: its ethical and legal foundations and its applications in research and practice of psychiatry] Grunberg F. **Can J Psychiatry** 1990 Jun;35(5):443–50 (46 ref.) (Eng. Abstr.) (Fre)

[Persons with mental disorders. Genesis of a project of Genevan law] Szokoloczy-Grobet A.
Rev Med Suisse Romande 1990 Jun;110(6):575–8 (Fre)

[Comment on the recommendations of the expert commission of the federal government on the reform of treatment in the psychiatric and psychotherapeutic/psychosomatic field (letter)] Odenbach E. **Nervenarzt** 1989 Aug;60(8):518 (Ger)

[Alternatives to institutionalization in accordance with the Institutionalization Law: problems, recommendations for a solution and medical anthropologic interpretations] Effelsberg W. **Off Gesundheitswes** 1989 Dec;51(12):760–3 (Eng. Abstr.) (Ger)

[Compulsory hospitalization of psychiatric patients today—a part of emergency management] Körmendy E.
Off Gesundheitswes 1990 Jun;52(6):273–6 (Eng. Abstr.) (Ger)

[Compulsory admission and detention at psychiatric hospitals in Tirol—a frequency analysis of 11 years] Stuppäck CH, et al. **Wien Klin Wochenschr** 1990 Jun 22;102(13):378–83 (Eng. Abstr.) (Ger)

[Responsibilities of the district physician in managing severely ill psychiatric patients at institutions] Anke R, et al. **Z Gesamte Hyg** 1990 Jan;36(1):22–4 (Eng. Abstr.) (Ger)

[Follow-up of adolescent homicide perpetrators committed in accordance with section 63 of the federal penal code: 4 case reports] Strehlow U. **Z Kinder Jugenpsychiatr** 1989 Dec;17(4):211–5 (Eng. Abstr.) (Ger)

[When are personnel obliged to warn of dangerous psychiatric patients?] Alexius B. **Lakartidningen** 1990 Jun 20;87(25):2193–4 (Swe)

STATISTICS & NUMERICAL DATA

Police admissions to a psychiatric hospital. Demographic and clinical differences between ethnic groups. Dunn J, et al.
Br J Psychiatry 1990 Mar;156:373–8

Survey of certification practices for patients admitted to Sterkfontein Hospital. Kaliski SZ, et al. **S Afr Med J** 1990 Jan 6;77(1):37–40

[Increased use of resources at psychiatric departments after the introduction of legislation on limitation of liberty and other forms of restriction in psychiatry. A prospective 3-month study] Aggernaes KH, et al. **Ugeskr Laeger** 1990 Jul 30;152(31):2237–8 (Eng. Abstr.) (Dan)

[Compulsory admissions] Engberg M. **Ugeskr Laeger** 1990 Feb 12;152(7):484 (Dan)

[Frequency of psychiatric admissions from recently built satellite areas (concrete buildings) in the western district of Copenhagen] Klahn JU, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):148–50 (Eng. Abstr.) (Dan)

COMMON BILE DUCT

Use of the Hawkins-Hunter rocket wire in the biliary system. Shaw DW, et al. **AJR Am J Roentgenol** 1990 May; 154(5):1101–2

Choledochoscopy via the cystic duct: evaluation of a new ultrathin disposable choledochoscope [see comments] Dennis MJ, et al. **Ann R Coll Surg Engl** 1989 Sep; 71(5):320–1 Comment in: Ann R Coll Surg Engl 1990 Mar;72(2):147–8.

Choledochoscopy via the cystic duct: evaluation of a new ultrathin disposable choledochoscope [letter; comment] Tinckler LF. **Ann R Coll Surg Engl** 1990 Mar;72(2):147–8 Comment on: Ann R Coll Surg Engl 1989 Sep;71(5):320–1.

Endoscopic management of an unusual intrabiliary foreign body. Banez VP, et al. **Br J Surg** 1990 Aug;77(8):882

Removal of impacted endoscopic basket and stone from the common bile duct by extracorporeal shock waves [letter] Merrett M, et al. **Endoscopy** 1990 Mar;22(2):92

Endoscopic removal of an atypical common bile duct foreign body [letter] Sakai P, et al. **Endoscopy** 1990 Mar;22(2):93

Intraoperative and postoperative biliary endoscopy (choledochoscopy). Berci G. **Surg Clin North Am** 1989 Dec;69(6):1275–86

A simple technique of T-tube insertion in transplantation of the liver. Ayalon A, et al. **Surg Gynecol Obstet** 1990 Mar; 170(3):249

[Spontaneous termination of iatrogenic icterus caused by complete ligation of the choledochus (letter)] el Fares F, et al. **J Chir (Paris)** 1990 Feb;127(2):118–9 (Fre)

[Endoscopic and percutaneous implantation of self-expanding endoprostheses in biliary stenosis] Neuhaus H, et al. **Dtsch Med Wochenschr** 1990 Aug 31; 115(35):1299–306 (Eng. Abstr.) (Ger)

[Tomato skin in the common bile duct after endoscopic sphincterotomy] Szántó I, et al. **Orv Hetil** 1990 Apr 8; 131(14):749–51 (Eng. Abstr.) (Hun)

[Postcholecystectomy syndrome caused by inflammation of the terminal choledochus and papilla] Zennaro F.
Ann Ital Chir 1989;60(3):127–31 (31 ref.) (Ita)

[Choledochoscopy through the cystic duct] Sinëv IuV, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):122 (Rus)

ABNORMALITIES

Surgical significance of persistent cholecystohepatic ducts. Ortiz VN, et al. **Bol Asoc Med P R** 1989 Sep;81(9):355–8

Liver disease and biliary tract abnormalities in cystic fibrosis [letter; comment] Bilton D, et al. **Lancet** 1990 Feb 10; 335(8685):357 Comment on: Lancet 1989 Dec 16;2(8677):1422–5.

[A double cancer of the gallbladder and common bile duct associated with an anomalous arrangement of the choledocho-pancreatic ductal junction—a case report and a review of the literature] Uetsuji S, et al.
Gan No Rinsho 1990 May;36(6):752–7 (13 ref.) (Eng. Abstr.) (Jpn)

[Cystic anomalies of the external bile ducts in children] Ergashev NSh. **Vestn Khir** 1989 Dec;144(12):33–6 (Eng. Abstr.) (Rus)

[Anomaly of the biliopancreatic junction, choledocal cyst and pancreatic lithiasis. Endoscopic possibilities] Martín L, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 2):685–8 (Eng. Abstr.) (Spa)

ANATOMY & HISTOLOGY

Changes of the ductus hepatocholedochus after gastric stimulant. Results of early functional sonography. Heistermann P, et al. **Surg Endosc** 1989;3(3):134–6

BLOOD SUPPLY

[Cavernous transformation of the portal vein. A rare cause of mechanical obstructive jaundice] Henne-Bruns D, et al. **Chirurg** 1989 Oct;60(10):704–6 (Ger)

DRUG EFFECTS

Narcotic analgesic, its antagonists and common bile duct pressure. Gao YH, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S143

INJURIES

Bile duct perforation: a complication of large caliber endoprosthesis. Cohen ME, et al. **Gastrointest Endosc** 1989 Sep-Oct;35(5):456–8

Isolated complete transection of the common bile duct due to blunt trauma in a child, and review of the literature. Bourque MD, et al. **J Pediatr Surg** 1989 Oct;24(10):1068–70 (16 ref.)

Spontaneous perforation of the common bile duct in children [letter] Balsam D, et al. **Radiology** 1990 Feb;174(2):578

[Long-term results of corrective surgery of iatrogenic bile duct injuries] Böttger T, et al. **Chirurg** 1990 May; 61(5):396–401 (Eng. Abstr.) (Ger)

[Definition and epidemiology of the post-cholecystectomy syndrome] Germiniani R. **Ann Ital Chir** 1989;60(3):107–12 (45 ref.) (Ita)

[Large calculus of the gallbladder penetrating into the common bile duct through the cystic duct] Kogan AS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):131–2 (Rus)

INNERVATION

Nerve-mediated contractile and electrical activity of the guinea-pig choledocho-duodenal junction. Vongalis F, et al. **J Auton Nerv Syst** 1989 Dec 30;29(1):19–28

PARASITOLOGY

[Method for treatment of opisthorchiasis-induced cholangitis] A'lperovich BI, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):112–4 (Rus)

PATHOLOGY

Common bile duct biopsy with the Simpson atherectomy catheter. Kim D, et al. **AJR Am J Roentgenol** 1990 Jun; 154(6):1213–5

Choledochoscopy and common bile duct exploration. Wheeler BR, et al. **Am Surg** 1990 Mar;56(3):182–4 (14 ref.)

Choledochoscopy. A cost-minimization analysis. Nagorney

DM, et al. **Ann Surg** 1990 Mar;211(3):354–9

Congenital biliary dilatation: a spectrum of disease detailed by ultrasound. Young W, et al. **Br J Radiol** 1990 May; 63(749):333–6

Bile duct size after cholecystectomy: an endoscopic retrograde cholangiopancreatographic study. Chung SC, et al. **Br J Surg** 1990 May;77(5):534–5

Changes in bile duct diameter after cholecystectomy: a 5-year prospective study. Hunt DR, et al. **Gastroenterology** 1989 Dec;97(6):1485–8

Early carcinoma of the extrahepatic bile duct. Tsunoda T, et al. **Jpn J Surg** 1989 Nov;19(6):691–8

[Comparative measurement of the pedicle common bile duct by echography and endoscopic retrograde cholangiography in chronic calcifying pancreatitis (letter)] Bastid C, et al. **Gastroenterol Clin Biol** 1990;14(4):402 **(Fre)**

[The diagnostic value of so-called "post-cholecystectomy bile duct dilatation"] Ecsedy G, et al. **Chirurg** 1990 May; 61(5):387–91 (Eng. Abstr.) **(Ger)**

[The retrograde endoscopically implantable, self-expanding endoprosthesis (stent) in malignant choledochal stenoses] Foerster EC, et al. **Dtsch Med Wochenschr** 1990 Apr 27; 115(17):648–52 (Eng. Abstr.) **(Ger)**

[A case of hyperplastic polypoid lesion in the common bile duct hard to differentiate from early bile duct carcinoma] Ohashi A, et al. **Rinsho Hoshasen** 1990 Jun;35(6):765–8 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Functional and morphological relationships between the feline main pancreatic and bile duct sphincters. Thune A, et al. **Gastroenterology** 1990 Mar;98(3):758–65

PHYSIOPATHOLOGY

Immediate effects of the endoscopic sphincterotomy on the motility of the sphincter of Oddi. Romanello LM, et al. **Arq Gastroenterol** 1988 Oct–Dec;25(4):193–7

Studies on intestinal motility and mechanism of cholangitis after biliary reconstruction [published erratum appears in J Pediatr Surg 1990 Mar;25(3):377] Takano K, et al. **J Pediatr Surg** 1989 Dec;24(12):1225–31

RADIOGRAPHY

Balloon dilatation of the ampulla of Vater. An experimental study in the rabbit. Riesenfeld V, et al. **Acta Radiol** 1990 Mar;31(2):222–4

Common channel ectasia in choledochal cyst [letter] Brunelle F. **AJR Am J Roentgenol** 1990 Aug;155(2):421

Cholangiographic study of the pancreaticobiliary ductal junction in biliary atresia. Chiba T, et al. **J Pediatr Surg** 1990 Jun;25(6):609–12

[Analysis of the causes of errors in the interpretation of intraoperative cholangiography] Malek G, et al. **Pol Przegl Radiol** 1988 Nov–Dec;52(6):299–301 (Eng. Abstr.) **(Pol)**

[A device for measuring the width of the common bile duct on cholangiograms] Ostrovskiĭ VP, et al. **Klin Khir** 1989; (9):64 **(Rus)**

[Intraoperative diagnosis of complications of cholelithiasis during its surgical treatment] Danilov MV, et al. **Vestn Khir** 1990 Mar;144(3):53–5 **(Rus)**

[Concerning surgical cholangiography] Nikovskiĭ DL. **Vestn Khir** 1990 Mar;144(3):61–4 **(Rus)**

[Extent of diagnostic manipulations for evaluation of the status of the hepatic and common bile ducts] Trunin MA, et al. **Vestn Khir** 1990 Mar;144(3):64–5 **(Rus)**

RADIONUCLIDE IMAGING

99mTc-labelled HIDA scintigraphy in assessment of bile leakage after removal of T tube from the common bile duct. Ryttov N, et al. **Br J Surg** 1989 Dec;76(12):1319

SURGERY

Choledochotomy: primary closure versus T-tube. A prospective trial. De Roover D, et al. **Acta Chir Belg** 1989 Nov–Dec;89(6):320–4

Choledochotomy for biliary lithiasis: is routine T-tube drainage necessary? A prospective controlled trial. Sheen-Chen SM, et al. **Acta Chir Scand** 1990 May; 156(5):387–90

100 consecutive common duct explorations without mortality. Pappas TN, et al. **Ann Surg** 1990 Mar; 211(3):260–2

Endoscopic placement of biliary endoprostheses in patients with endoscopically unextractable common bile duct stones. A long-term follow up study of 26 patients. Soomers AJ, et al. **Endoscopy** 1990 Jan;22(1):24–6

The clogged biliary endoprosthesis: help on the way. Levine JG, et al. **Gastroenterology** 1990 Jul;99(1):281–2

Effect of bile drainage from the choledochus on bacterial concentration. Chaimoff C, et al. **Isr J Med Sci** 1989 Dec; 25(12):723–5

A quantitative analysis of the liver following ligation of the common bile duct. Gall JA, et al. **Liver** 1990 Apr; 10(2):116–25

Assessing the role of routine choledochoscopy during exploration of the bile duct. Scher KS, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):9–12

Medium and long-term complications of endoscopic sphincterotomy for choledocholithiasis. Whitehead HM, et al. **Ulster Med J** 1989 Oct;58(2):119–23

[A device for transcholedochal-transduodenal operations on the terminal choledochus] Atanasov D, et al. **Khirurgiia (Sofiia)** 1990;43(1):93–7 **(Bul)**

[Results of bilio-digestive anastomoses in benign diseases excluding intra-hepatic lithiasis] Zaouche A, et al. **Tunis Med** 1990 Apr;68(4):259–66 (25 ref.) (Eng. Abstr.) **(Fre)**

[Is simultaneous cholecystectomy and choledochal exploration obsolete?] Förster R, et al. **Dtsch Med Wochenschr** 1990 Apr 13;115(15):563–9 (Eng. Abstr.) **(Ger)**

[Bilio-digestive anastomosis (our experience)] Vigoni A, et al. **Chir Ital** 1989 Aug–Dec;41(4–6):232–8 (Eng. Abstr.) **(Ita)**

[Two-step removal of Kehr's drain from the common bile duct] Bielecki K. **Wiad Lek** 1989 Mar 1;42(5):292–4 (Eng. Abstr.) **(Pol)**

[Indications for choledochotomy and methods for its performance] Baskakov VA, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):54–7 (Eng. Abstr.) **(Rus)**

[Transhepatic endoprosthesis of the bile ducts] Prokubovskiĭ VI, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):18–23 (Eng. Abstr.) **(Rus)**

[Late results of the surgical treatment of patients with biliary calculi] Rodionov VV, et al. **Khirurgiia (Mosk)** 1990 Jan; (1):14–8 (Eng. Abstr.) **(Rus)**

[Comparative evaluation of the results of traditional and laser papillosphincterotomy] Skobelkin OK, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):24–6 (Eng. Abstr.) **(Rus)**

[Transduodenal papillosphincterotomy in the treatment of nontumorous lesions of the terminal portion of the common bile duct] Shaposhnikov AV, et al. **Klin Khir** 1989;(9):39–41 (Eng. Abstr.) **(Rus)**

[A method for draining the common bile duct] Tatarshaov MKh, et al. **Klin Khir** 1989;(9):64–5 **(Rus)**

[Evaluation of the methods of completion of surgical procedures of the biliary tract] Feofilov GL, et al. **Vestn Khir** 1990 Jan;144(1):104–7 **(Rus)**

[Surgery of extrahepatic bile ducts] Filimonov MI, et al. **Vestn Khir** 1990 Mar;144(3):47–51 **(Rus)**

[Diagnostic possibilities of intraoperative examination of bile ducts] Kochnev OS. **Vestn Khir** 1990 Mar;144(3):56–7 **(Rus)**

[Various problems of biliary tract surgery] Krakovskiĭ AI. **Vestn Khir** 1990 Mar;144(3):57–8 **(Rus)**

COMMON BILE DUCT CALCULI

ESWL for bile duct stones: making waves in established therapy. Auteri AG, et al. **Gastroenterology** 1990 Feb; 98(2):537–8

Choledocholithiasis [clinical conference] Wilson ID, et al. **Gastroenterology** 1978 Jul;75(1):120–8 (61 ref.)

Intrahepatic biliary lithiasis: its findings and current problems. Sugahara K, et al. **Trop Gastroenterol** 1989 Oct–Dec; 10(4):201–10 (23 ref.)

ANALYSIS

Differences in gallstone structure in primary common bile duct lithiasis and gallbladder lithiasis. Garcia Ontiveros A, et al. **Klin Wochenschr** 1990 May 17;68(10):496–502

COMPLICATIONS

Mirizzi's syndrome. An uncommon cause of biliary obstruction. Didlake R, et al. **Am Surg** 1990 Apr; 56(4):268–9

The theory of 'persisting' common bile duct stones in severe gallstone pancreatitis. Neoptolemos JP. **Ann R Coll Surg Engl** 1989 Sep;71(5):326–31

The use of endoscopy to treat bronchobiliary fistula caused by choledocholithiasis. Brem H, et al. **Gastroenterology** 1990 Feb;98(2):490–2

Endoscopic sphincterotomy in acute cholangitis due to choledocholithiasis. Ditzel H, et al. **Hepatogastroenterology** 1990 Apr;37(2):204–7

Ultrasound in obstructive jaundice. Khandelwal N, et al. **Indian J Gastroenterol** 1990 Jan;9(1):51–3

[The treatment of cholangiogenic liver abscesses by the use of hemosorption and extracorporeal membrane oxygenation] Kukosh MV, et al. **Klin Khir** 1989;(9):60–1 **(Rus)**

[Pathogenesis of jaundice in acute cholecystitis] Grinev MV, et al. **Vestn Khir** 1989 Jul;143(7):3–7 (Eng. Abstr.) **(Rus)**

[Extreme hyperbilirubinemia associated with spherocytosis and choledocholithiasis] Peralta-Zagal JA, et al. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):43–7 (Eng. Abstr.) **(Spa)**

[Oriental cholangiohepatitis] Lauretta RP, et al. **GEN** 1987 Oct–Dec;41(4):171–3 (Eng. Abstr.) **(Spa)**

[Bronchobiliary fistula (letter)] Fernández de la Puebla RA, et al. **Med Clin (Barc)** 1990 May 5;94(17):678–9 **(Spa)**

[Extrahepatic biloma secondary to choledocholithiasis] Fernández Fernández L, et al. **Rev Esp Enferm Apar Dig** 1989 Oct;76(4):385–8 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Preoperative ultrasonic of common bile duct stones and its importance to surgical management—result of a prospective controlled trial. Birkigt HG, et al. **Acta Chir Hung** 1989;30(3):171–7

Endoscopic retrograde cholangioscopy. An adjunct to endoscopic exploration of the common bile duct. Ponsky JL, et al. **Am Surg** 1990 Apr;56(4):235–7 (6 ref.)

Choledochoscopy. A cost-minimization analysis. Nagorney DM, et al. **Ann Surg** 1990 Mar;211(3):354–9

Ultrasonography. Intraoperative diagnoses of choledocholithiasis. Thompson S. **AORN J** 1990 Apr; 51(4):983–5

Ultrasound imaging of pancreas and biliary tract. Lindsell DR. **Lancet** 1990 Feb 17;335(8686):390–3

Assessing the role of routine choledochoscopy during exploration of the bile duct. Scher KS, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):9–12

[Ultrasonic defectoscopy combined with laparoscopy in the diagnosis of the liver and biliary tract] Dalgat DM, et al. **Klin Med (Mosk)** 1989 Aug;67(8):80–3 (Eng. Abstr.) **(Rus)**

[Echosonography and retrograde cholangiopancreatography in selecting surgical tactics in mechanical jaundice] Kanorskiĭ ID, et al. **Sov Med** 1989;(10):35–7 (Eng. Abstr.) **(Rus)**

[Diagnostic procedures during surgical treatment of cholecystitis] Al'perovich BI. **Vestn Khir** 1990 Mar; 144(3):52–3 **(Rus)**

[Possibilities of ultrasonic examination in mechanical jaundice] Gadiev SI, et al. **Vestn Khir** 1989 Jul;143(7):9–11 (Eng. Abstr.) **(Rus)**

[Acute pancreatitis and diagnostic and therapeutic endoscopic retrograde cholangiopancreatography] Aparcero M, et al. **GEN** 1989 Jan–Mar;43(1):39–45 (Eng. Abstr.) **(Spa)**

[Diagnosis of choledocholithiasis and residual lithiasis. Ultrasonic postcholecystectomy] Segura JM, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 2):627–30 (Eng. Abstr.) **(Spa)**

[Ultrasonics in the diagnosis of choledocholithiasis] Busel D, et al. **Rev Med Chil** 1989 Jan;117(1):40–1 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Dissolution and retrieval of retained common duct stones. Patterson HC, et al. **Am Surg** 1975 Jan;41(1):48–53

Methyl tert butyl ether dissolution therapy for common bile duct stones. Kaye GL, et al. **J Hepatol** 1990 May; 10(3):337–40

ENZYMOLOGY

[Lysozyme-forming function of the liver in complicated acute cholecystitis] Lokhvitskiĭ SV, et al. **Vestn Khir** 1989 May;142(5):29–30 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Post-choledochoenterostomy 'sump syndrome'. Miros M, et al. **Aust N Z J Surg** 1990 Feb;60(2):109–12

Periampullary diverticula predispose to primary rather than secondary stones in the common bile duct. Hall RI, et al. **Endoscopy** 1990 May;22(3):127–8

An iatrogenic gallstone with pancreatitis [letter] Farr CM, et al. **J Clin Gastroenterol** 1989 Oct;11(5):596–7

Gallstone ileus following endoscopic sphincterotomy. Prackup GM, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):230–2

[Juxtapapillary diverticula and biliary lithiasis: a causal relation?] Legoux JJ. **Gastroenterol Clin Biol** 1990; 14(2):196–7 **(Fre)**

[Definition and epidemiology of the post-cholecystectomy syndrome] Germiniani R. **Ann Ital Chir** 1989;60(3):107–12 (45 ref.) **(Ita)**

[Large calculus of the gallbladder penetrating into the common bile duct through the cystic duct] Kogan AS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):131–2 **(Rus)**

[Mechanical jaundice in cholangitis] Khachatrian RG, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):87–90 (Eng. Abstr.) **(Rus)**

GENETICS

[Complicated cholecysto-choledocholithiasis in a patient with atypical glucose-6-phosphate dehydrogenase enzyme defect] Herzig M, et al. **Zentralbl Chir** 1989;114(22):1473–7 **(Ger)**

IMMUNOLOGY

Anergy in patients with biliary lithiasis [letter; comment] Monson JR. **Br J Surg** 1989 Sep;76(9):988 Comment on: Br J Surg 1989 Feb;76(2):169–72.

[Immunologic reactivity of patients with obstructive jaundice of non-neoplastic etiology] Agaev BA, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):69–72 (Eng. Abstr.) **(Rus)**

MORTALITY

[Postoperative mortality in surgery of cholelithiasis: a retrospective analysis from the years 1972–1980] Herzog U, et al. **Schweiz Rundsch Med Prax** 1990 Mar 6; 79(10):287–90 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Intraoperative and postoperative biliary endoscopy

(choledochoscopy). Berci G. **Endoscopy** 1989 Dec;21 Suppl 1:330–2

PHYSIOPATHOLOGY

Spontaneous passage of large common bile duct calculus [letter] Nande AG. **Am J Gastroenterol** 1989 Nov; 84(11):1465

The pathogenesis of acute biliary pancreatitis: a controversial issue. Part II: The concepts of duodenopancreatic reflux and of obstruction of pancreatic exocrine secretion. Arendt T. **Gastroenterol J** 1989;49(3):98–101 (44 ref.)

The pathogenesis of acute biliary pancreatitis: a controversial issue. Part I. The concept of biliopancreatic reflux. Arendt T. **Gastroenterol J** 1989;49(2):50–3 (40 ref.)

[Changes in homeostasis after elimination of the cause of mechanical jaundice of non-neoplastic etiology by endoscopic methods] Shulutko AM, et al. **Vestn Khir** 1990 Jan;144(1):45–8 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Operative cholangiography. Shively EH, et al. **Am J Surg** 1990 Apr;159(4):380–4; discussion 385

Operative cholangiography in elective cholecystectomy. Pernthaler H, et al. **Br J Surg** 1990 Apr;77(4):399–400

Multiple choledochal cysts with stones (a case report with review of literature). Bhagvat SR, et al. **J Assoc Physicians India** 1989 Nov;37(11):719–20

Duodenal pseudotumour: a silent impacted common bile duct calculus. Finch PJ, et al. **Postgrad Med J** 1989 Oct; 65(768):794–6

[Analysis of the causes of errors in the interpretation of intraoperative cholangiography] Malek G, et al. **Pol Przegl Radiol** 1988 Nov–Dec;52(6):299–301 (Eng. Abstr.) **(Pol)**

[Intraoperative cholangiography] Kuzin MI, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):10–4 (Eng. Abstr.) **(Rus)**

[Intraoperative diagnosis of complications of cholelithiasis during its surgical treatment] Danilov MV, et al. **Vestn Khir** 1990 Mar;144(3):53–5 **(Rus)**

[Concerning surgical cholangiography] Nikovskiĭ DL. **Vestn Khir** 1990 Mar;144(3):61–4 **(Rus)**

SURGERY

Choledochotomy: primary closure versus T-tube. A prospective trial. De Roover D, et al. **Acta Chir Belg** 1989 Nov–Dec;89(6):320–4

Biliary tract surgery: a bacteriologic and epidemiologic study. Hambraeus A, et al. **Acta Chir Scand** 1990 Feb; 156(2):155–62

Choledochotomy for biliary lithiasis: is routine T-tube drainage necessary? A prospective controlled trial. Sheen-Chen SM, et al. **Acta Chir Scand** 1990 May; 156(5):387–90

Endoscopic sphincterotomy is an effective method in the treatment of common bile duct stones [letter] Tulassay Z, et al. **Am J Surg** 1990 Jan;159(1):186

Intraoperative flexible videocholedochoscopy. An improved technique for evaluating the common duct. Apelgren KN, et al. **Am Surg** 1990 Mar;56(3):178–81

Current management of choledocholithiasis. Miller JS, et al. **Am Surg** 1990 Feb;56(2):66–70

Early postoperative endoscopic sphincterotomy for retained common duct stones. Askew AR, et al. **Ann R Coll Surg Engl** 1989 Nov;71(6):359–60

Early postoperative endoscopic sphincterotomy for retained biliary stones [letter; comment] Martin D, et al. **Ann R Coll Surg Engl** 1989 May;71(3):205 Comment on: Ann R Coll Surg Engl 1988 Nov;70(6):350–1.

100 consecutive common duct explorations without mortality. Pappas TN, et al. **Ann Surg** 1990 Mar; 211(3):260–2

The surgical management of impacted common bile duct stones without sphincter ablation. Thompson JE Jr, et al. **Arch Surg** 1989 Oct;124(10):1216–9; discussion 1219–20

Immediate effects of the endoscopic sphincterotomy on the motility of the sphincter of Oddi. Romanello LM, et al. **Arq Gastroenterol** 1988 Oct–Dec;25(4):193–7

Surgical audit of patients undergoing common bile duct exploration for stone. McEntee GP, et al. **Br J Surg** 1989 Nov;76(11):1136–8

Endoscopic placement of biliary endoprostheses in patients with endoscopically unextractable common bile duct stones. A long-term follow up study of 26 patients. Soomers AJ, et al. **Endoscopy** 1990 Jan;22(1):24–6

Precut papillotomy—a risky technique for experts only [editorial; comment] Cotton PB. **Gastrointest Endosc** 1989 Nov–Dec;35(6):578–9 Comment on: Gastrointest Endosc 1989 Nov–Dec;35(6):499–503.

Endoscopic sphincterotomy in outpatients. Podolsky I, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):372–6

The needle knife: a valuable tool in diagnostic and therapeutic ERCP [see comments] Siegel JH, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):499–503 Comment in: Gastrointest Endosc 1989 Nov–Dec;35(6):578–9.

Percutaneous choledochoscopic choledocholithotomy in Caroli's disease. King J, et al. **Gastrointest Radiol** 1990 Spring;15(2):137–8

Endoscopic removal of retained bile duct calculi via T-tube tract. Mathur SK, et al. **Indian J Gastroenterol** 1990 Apr; 9(2):123–5

Endoscopic sphincterotomy—experience with 110 patients. Misra SP, et al. **Indian J Gastroenterol** 1989 Oct;8(4):253–5

Intraoperative and postoperative biliary endoscopy (choledochoscopy). Berci G. **Surg Clin North Am** 1989 Dec;69(6):1275–86

Medium and long-term complications of endoscopic sphincterotomy for choledocholithiasis. Whitehead HM, et al. **Ulster Med J** 1989 Oct;58(2):119–23

[Endoscopic papillosphincterotomy in the treatment of stenosing papillitis and choledocholithiasis] Khlebarov I. **Vutr Boles** 1989;28(5):71–4 (Eng. Abstr.) **(Bul)**

[Endoscopic papillotomy without cholecystectomy for the treatment of patients with choledocholithiasis?] Rijk MC, et al. **Ned Tijdschr Geneeskd** 1989 Sep 30;133(39):1919–22 (27 ref.) **(Dut)**

[A simplified surgical approach in choledochal lithiasis reducing the complexity and severity of this surgery. Study of a series of 153 cases] Dubois F, et al. **Ann Chir** 1990; 44(1):19–23 (Eng. Abstr.) **(Fre)**

[Long-term results of corrective surgery of iatrogenic bile duct injuries] Böttger T, et al. **Chirurg** 1990 May; 61(5):396–401 (Eng. Abstr.) **(Ger)**

[The diagnostic value of so-called "post-cholecystectomy bile duct dilatation"] Ecsedy G, et al. **Chirurg** 1990 May; 61(5):387–91 (Eng. Abstr.) **(Ger)**

[Retroduodenal perforation following endoscopic papillotomy] Gögler H, et al. **Chirurg** 1989 Jul;60(7):492–4 **(Ger)**

[How great is the risk in surgical treatment of choledocholithiasis?] Lennert KA, et al. **Chirurg** 1990 May; 61(5):376–9; discussion 379–81 (Eng. Abstr.) **(Ger)**

[A rare complication following endoscopic papillotomy—gallstone ileus] Schleusner V. **Chirurg** 1989 Dec;60(12):909–11 **(Ger)**

[Surgical treatment of cholelithiasis] Rückauer KD, et al. **Fortschr Med** 1989 Nov 10;107(32):688–91 (20 ref.) (Eng. Abstr.) **(Ger)**

[Selective intraoperative cholangiography] Famos M, et al. **Helv Chir Acta** 1990 Apr;56(6):897–901 (Eng. Abstr.) **(Ger)**

[Endoscopic papillotomy as an early measure in acute pancreatitis—a critical classification of indications] Lankisch PG, et al. **Internist (Berl)** 1989 Nov;30(11):725–9 (44 ref.) **(Ger)**

[A massively dilated ductus choledochus in choledocholithiasis following cholecystectomy and choledochojejunostomy] Petri H, et al. **ROFO** 1989 Oct; 151(4):496–7 **(Ger)**

[Choledocholithiasis: risk factors and their significance for pre- and intraoperative diagnosis] Mickley V, et al. **Zentralbl Chir** 1990;115(2):89–94 (Eng. Abstr.) **(Ger)**

[Tomato skin in the common bile duct after endoscopic sphincterotomy] Szántó I, et al. **Orv Hetil** 1990 Apr 8; 131(14):749–51 (Eng. Abstr.) **(Hun)**

[Surgical papillosphincterotomy: indications and limits] Cangemi V, et al. **G Chir** 1989 Jul–Aug;10(7–8):431–7 (80 ref.) **(Ita)**

[Partial papillosphincterotomy: specification on indications and technical notes] De Antoni E, et al. **G Chir** 1989 Jul–Aug;10(7–8):427–9 (5 ref.) **(Ita)**

[Indications and results of 977 cases of papillosphincterostomy] Fedele E. **G Chir** 1989 Jul–Aug; 10(7–8):415–9 **(Ita)**

[Treatment of recurrent or residual calculosis of the choledochus. A comparison of the technics] Ferraris R, et al. **Minerva Chir** 1990 Mar 15;45(5):215–26 (Eng. Abstr.) **(Ita)**

[Results of endoscopic treatment of choledochal calculosis and cicatricial stenosis of the papilla] Fornaro R, et al. **Minerva Chir** 1989 Nov 30;44(22):2295–301 (19 ref.) (Eng. Abstr.) **(Ita)**

[Spontaneous bilio-digestive fistula of lithiasic origin] Marzocca G, et al. **Minerva Chir** 1990 Feb;45(3–4):177–81 (20 ref.) (Eng. Abstr.) **(Ita)**

[Surgical treatment of lithiasis of the common bile duct: our experience] Pecis C, et al. **Minerva Chir** 1990 May 31; 45(10):711–3 (Eng. Abstr.) **(Ita)**

[Use of intraoperative transcystic choledoscopy in calculosis of the main bile duct] Rossi R, et al. **Minerva Chir** 1989 Nov 30;44(22):2303–5 (Eng. Abstr.) **(Ita)**

[Common bile duct calculi after biliary surgery. Postoperative endoscopic papillotomy is the solution] Bruheim I, et al. **Tidsskr Nor Laegeforen** 1989 Sep 20; 109(26):2683–4 (Eng. Abstr.) **(Nor)**

[A modified method of hepaticocholedochojejunal anastomosis] Atanasov D, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):28–31 (Eng. Abstr.) **(Rus)**

[Endoscopic methods in the diagnosis and treatment of mechanical jaundice of non-neoplastic etiology] Ermolov AS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):58–61 (Eng. Abstr.) **(Rus)**

[Endoscopic papillosphincterotomy in patients with acute cholecystitis and lesions of the common bile duct] Krenda I AP, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):62–6 (Eng. Abstr.) **(Rus)**

[Diagnosis and treatment of mechanical jaundice] Lukichev OD, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):10–4 (Eng. Abstr.) **(Rus)**

[Choledochoduodenostomy in choledocholithiasis and benign strictures of the common bile duct] Nikolaev No, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):11–4 (Eng. Abstr.) **(Rus)**

[Repeated operations on the extrahepatic bile ducts] Potashov LV, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):42–5 (Eng. Abstr.) **(Rus)**

[Late results of the surgical treatment of patients with biliary calculi] Rodionov VV, et al. **Khirurgiia (Mosk)** 1990 Jan; (1):14–8 (Eng. Abstr.) **(Rus)**

[Characteristics and results of the treatment of cholelithiasis in elderly patients] Shchigel B, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):18–22 (Eng. Abstr.) **(Rus)**

[Nasobiliary drainage in choledocholithiasis and benign strictures of the common bile duct] Reviakin VI, et al. **Sov Med** 1989;(8):103–6 **(Rus)**

[Stage-by-stage endoscopic papillosphincterotomy in choledocholithiasis] Sinev IuV, et al. **Sov Med** 1990; (4):85–7 **(Rus)**

[Surgery of extrahepatic bile ducts] Filimonov MI, et al. **Vestn Khir** 1990 Mar;144(3):47–51 **(Rus)**

[An extractor for removal of calculi from the bile ducts] Kirichenko MN. **Vestn Khir** 1989 Apr;142(4):98–9 **(Rus)**

[Various problems of biliary tract surgery] Krakovskiĭ AI. **Vestn Khir** 1990 Mar;144(3):57–8 **(Rus)**

[Evaluation of the status of bile ducts and the patency of the terminal part of the common bile duct] Nechaĭ AI, et al. **Vestn Khir** 1990 Mar;144(3):60–1 **(Rus)**

[Methods of surgical treatment of common bile duct obstruction] Nurmukhamedov RM, et al. **Vestn Khir** 1989 Dec;144(12):19–21 **(Rus)**

[A method of intraoperative location of the major duodenal papilla using fiber-optic illuminators] Pozdniakov BV, et al. **Vestn Khir** 1989 Sep;143(9):119 **(Rus)**

[Late results of endoscopic papillosphincterotomy in patients with non-neoplastic diseases of the common bile duct] Rodionov VV, et al. **Vestn Khir** 1989 Jul;143(7):11–3 (Eng. Abstr.) **(Rus)**

[Extent of diagnostic manipulations for evaluation of the status of the hepatic and common bile ducts] Trunin MA, et al. **Vestn Khir** 1990 Mar;144(3):64–5 **(Rus)**

[The importance of interventional endoscopy in biliary tract surgery] Černý J, et al. **Rozhl Chir** 1990 Mar;69(3):144–7 (Eng. Abstr.) **(Slo)**

[Choledocholithiasis in non-cholecystectomized patients: endoscopic sphincterotomy and afterwards ... cholecystectomy?] Moreira Vicente VF, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):215–21 (73 ref.) (Eng. Abstr.) **(Spa)**

[Choledocholithiasis in non-cholecystectomized patients (gallbladder in situ): a therapeutic dilemma] Moreira VF, et al. **Rev Esp Enferm Dig** 1990 May;77(5):345–55 (126 ref.) **(Spa)**

[Significance of peroperative cholangiography in elective geriatric surgery of the bile ducts] Planells Roig MV, et al. **Rev Esp Enferm Dig** 1990 May;77(5):333–6 (Eng. Abstr.) **(Spa)**

THERAPY

The flushing treatment of residual CBD stones. (RS). Ehtuish FA. **Acta Chir Iugosl** 1989;36 Suppl 2:771–5

Extracorporeal shock-wave lithotripsy of bile-duct stones. Initial Swedish experience. Ihse I, et al. **Acta Chir Scand** 1990 Jan;156(1):87–90

Retained bile duct stones: T-tube in place, percutaneous or endoscopic management? Cotton PB. **Am J Gastroenterol** 1990 Sep;85(9):1075–8 (43 ref.)

Endoscopic stenting for biliary stones after Billroth II gastrectomy [letter] Dill JE. **Am J Gastroenterol** 1989 Dec; 84(12):1591–2

Precut (needle knife) papillotomy for impacted common bile duct stone at the ampulla. Leung JW, et al. **Am J Gastroenterol** 1990 Aug;85(8):991–3

A new mechanical lithotripter for the treatment of large common bile duct stones. Shaw MJ, et al. **Am J Gastroenterol** 1990 Jul;85(7):796–8

Management of retained common bile duct stones in patients with T-tube in situ: role of endoscopic sphincterotomy. Tandon RK, et al. **Am J Gastroenterol** 1990 Sep; 85(9):1126–31

Electrohydraulic lithotripsy (EHL) for the treatment of large retained common duct stones. Josephs LG, et al. **Am Surg** 1990 Apr;56(4):232–4

Impaction of the endoscopic basket. An important consideration in the trans-sphincteric management of choledocholithiasis. Landreneau RJ, et al. **Am Surg** 1990 Jun;56(6):388–93

Management of unextractable bile duct stones by endoscopic stenting. Nordback I. **Ann Chir Gynaecol** 1989;78(4):290–2

The challenge of the bile duct in 1990. Peel AL. **Ann R Coll Surg Engl** 1990 May;72(3):165–7 (16 ref.)

Choledochoscopic electrohydraulic lithotripsy and lithotomy for stones in the common bile duct, intrahepatic ducts, and gallbladder. Yoshimoto H, et al. **Ann Surg** 1989 Nov; 210(5):576–82

Electrohydraulic lithotripsy with peroral choledochoscopy. Leung JW, et al. **BMJ** 1989 Sep 2;299(6699):595–8

Removal of retained bile-duct calculus without operation. A case report. Magarey CJ. **Br J Surg** 1969 Apr;56(4):312–4

Technical problem: impacted retained distal common duct stone. Malone DE, et al. **Clin Radiol** 1990 Feb;41(2):130–3

Removal of impacted endoscopic basket and stone from the common bile duct by extracorporeal shock waves [letter] Merrett M, et al. **Endoscopy** 1990 Mar;22(2):92

ESWL for bile duct stones: making waves in established therapy [corrected and republished article originally printed in Gastroenterology 1990 Feb;98(2):537–8] Auteri

AG, et al. **Gastroenterology** 1990 Apr;98(4):1096–7

Common bile duct laser lithotripsy. Berci G, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2):137–8

Endoscopic removal of prolene sutures from the common bile duct during endoscopic retrograde cholangiography. Hearne SE, et al. **Gastrointest Endosc** 1990 May–Jun; 36(3):301–3

Wire-guided basket extraction of common bile duct stones. Schwartz HM, et al. **Gastrointest Endosc** 1990 May–Jun; 36(3):296–8

Endoscopic electrohydraulic lithotripsy. Siegel JH, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2):134–6

Common duct exploration with the balloon-tipped biliary catheter: a review. Drumm J, et al. **J R Soc Med** 1989 Sep;82(9):542–4 (9 ref.)

Common duct stone push-through. Goco IR, et al. **South Med J** 1990 Sep;83(9):1033–5

Endoscopic management of choledocholithiasis during pregnancy. Baillie J, et al. **Surg Gynecol Obstet** 1990 Jul; 171(1):1–4

Limitations of percutaneous transhepatic cholangioscopy in the removal of complicated biliary calculi. Jeng KS, et al. **World J Surg** 1989 Sep–Oct;13(5):603–10 (43 ref.)

[Shock-wave lithotripsy in the treatment of 12 patients with choledocholithiasis using an apparatus manufactured in Czechoslovakia] Beneš J, et al. **Cas Lek Cesk** 1990 Jan 12;129(2):43–6 (Eng. Abstr.) (Cze)

[Extracorporeal shockwave treatment of the deep biliary tract (letter)] Mogensen P, et al. **Ugeskr Laeger** 1990 Aug 20;152(34):2446 (Dan)

[Immediate and long-term results of endoscopic or surgical Oddi sphincterotomy in the treatment of lithiasis of the common bile duct] Ratto GB, et al. **J Chir (Paris)** 1990 Jan;127(1):17–21 (22 ref.) (Eng. Abstr.) (Fre)

[Cholelithiasis—non-surgical intervention. Definitive and combined use] Salm R, et al. **Fortschr Med** 1989 Nov 10; 107(32):683–7 (31 ref.) (Eng. Abstr.) (Ger)

["Sense and nonsense in non-surgical gallstone treatment" (editorial)] Arnold W. **Leber Magen Darm** 1990 Mar; 2(2):57–8 (Ger)

[Gallstone treatment using extracorporeal shockwave lithotripsy and adjuvant oral lysis: status and perspective] Staritz M. **Schweiz Rundsch Med Prax** 1990 Mar 27; 79(13):400–2 (Eng. Abstr.) (Ger)

[Clinical relevance of extracorporeal shockwave lithotripsy (ESWL) in choledocholithiasis] Weiss W, et al. **Wien Klin Wochenschr** 1989 Sep 29;101(18):629–31 (Eng. Abstr.) (Ger)

[Endoscopic treatment of gallstones: new technics] Riemann JF. **Z Gesamte Inn Med** 1989 Oct 15;44(20):605–9 (29 ref.) (Eng. Abstr.) (Ger)

[Endoscopic papillotomy in the treatment of choledocholithiasis—technic, indications, results] Schulz HJ. **Z Gesamte Inn Med** 1989 Oct 15;44(20):609–12 (Eng. Abstr.) (Ger)

[Extracorporeal shock-wave lithotripsy for gallbladder and bile duct stones—position, condition, rate of fragmentation and complete disappearance] Kato H, et al. **Nippon Rinsho** 1989 Dec;47(12):2753–7 (Jpn)

[The clinical study on the utility of endoscopic electrohydraulic lithotripsy of common bile duct stone] Yamada T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jul;86(7):1505–12 (Eng. Abstr.) (Jpn)

[Clinical use of the mechanical lithotriptor for crushing calculi in the common bile duct] Hnidec O, et al. **Wiad Lek** 1989 Jan 15;42(2):57–60 (Eng. Abstr.) (Pol)

VETERINARY

Successful choledocholithotomy in a horse. Green DS, et al. **Equine Vet J** 1989 Nov;21(6):464–7

COMMON BILE DUCT CYST see **CHOLEDOCHAL CYST**

COMMON BILE DUCT DISEASES

Choledochal cyst. A case report. Burkhalter E. **Am Surg** 1990 Jun;56(6):377–9 (13 ref.)

Serum diatrizoate level during intraoperative cholangiography in patients without choledochal obstructions. Sakahira K, et al. **Dig Dis Sci** 1990 Sep; 35(9):1085–8

COMPLICATIONS

[Biliary ascariasis as complication after cholecystectomy for cholelithiasis] Smits AB, et al. **Ned Tijdschr Geneeskd** 1990 Jul 14;134(28):1369–71 (Eng. Abstr.) (Dut)

[Cholestasis caused by ulcerative Vater's papillitis in a child with AIDS] de'Angelis GL, et al. **Arch Fr Pediatr** 1990 Jan;47(1):37–8 (Eng. Abstr.) (Fre)

[Gallbladder empyema caused by common bile duct compression by primary cysts of the pancreas. A clinical case] Cossavella D, et al. **Minerva Chir** 1989 Nov 15; 44(21):2267–9 (Eng. Abstr.) (Ita)

[Causes of recurrence of pain in patients after cholecystectomy and its treatment] Kochnev OS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):46–51 (Eng. Abstr.) (Rus)

[Adenocarcinoma in a choledochal cyst. Report of a case and review of the literature] Herrera Cabezón J, et al. **Rev Esp Enferm Apar Dig** 1989 Oct;76(4):381–4 (27 ref.) (Eng. Abstr.) (Spa)

CONGENITAL

Familial occurrence of congenital bile duct dilatation. Iwafuchi M, et al. **J Pediatr Surg** 1990 Mar;25(3):353–5 (7 ref.)

[Intraduodenal development of diverticula of the lower choledochus. Apropos of 2 cases] Bona S, et al. **Ann Chir** 1989;43(7):542–6 (Eng. Abstr.) (Fre)

DIAGNOSIS

Peroral cholangioscopy—an improved method in the diagnosis of common bile duct diseases. Riemann JF, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):435–7

Sphincter of Oddi dysfunction. Dynamic cholescintigraphy and endoscopic retrograde cholangiopancreatography with papillotomy in diagnosis, treatment, and follow-up study. Farup PG, et al. **Scand J Gastroenterol** 1989 Oct; 24(8):956–60

[Choledochal cyst] Mozziconacci JG, et al. **Pediatrie** 1990; 45(3):197–201 (21 ref.) (Eng. Abstr.) (Fre)

[Roentgenologic and endoscopic procedures in the diagnosis and treatment of benign diseases of the biliary tract (review of the literature)] Efendiev VM, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):145–9 (80 ref.) (Rus)

[Mechanical jaundice: laparotomy or endoscopy?] Kochnev OS, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):26–32 (Eng. Abstr.) (Rus)

[Stenosis of the major duodenal papilla] Sinev IuV, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):22–4 (Eng. Abstr.) (Rus)

[A case of severe clonorchiasis] Sorokopud OP, et al. **Klin Med (Mosk)** 1990 Jan;68(1):111–2 (Rus)

[Mirizzi's syndrome] Shapova Iiants SG, et al. **Sov Med** 1989; (6):97–100 (Rus)

[Detection of lesions of the bile ducts] Milonov OB, et al. **Vestn Khir** 1990 Mar;144(3):58–60 (Rus)

[Usefulness of endoscopic retrograde cholangiopancreatography in diagnosis of choledochal cysts in children] Guelrud M, et al. **GEN** 1989 Jan–Mar; 43(1):9–12 (Eng. Abstr.) (Spa)

DRUG THERAPY

Bile plug syndrome: successful management with a mucolytic agent. Brown DM. **J Pediatr Surg** 1990 Mar;25(3):351–2

ETIOLOGY

The spectrum and natural history of common bile duct stenosis in chronic alcohol-induced pancreatitis. Kalvaria I, et al. **Ann Surg** 1989 Nov;210(5):608–13

Parasitic causes of obstructive jaundice. Dennis MJ, et al. **Ann Trop Med Parasitol** 1989 Apr;83(2):159–61

Postendoscopic sphincterotomy stenosis [see comments] Galdermans D, et al. **Endoscopy** 1989 Sep;21(5):237–9 Comment in: Endoscopy 1990 Mar;22(2):98.

Early postendoscopic sphincterotomy stenosis [letter; comment] Richieri JP. **Endoscopy** 1990 Mar;22(2):98 Comment on: Endoscopy 1989 Sep;21(5):237–9.

A case of the pathogenesis of choledochocele in relation to dysfunction of the sphincter of Oddi. Ide M, et al. **Gastroenterol Jpn** 1989 Oct;24(5):561–6

Distal common bile duct stenosis secondary to benign duodenal ulceration: report of a case. Van Steenbergen W, et al. **Gastrointest Radiol** 1990 Summer;15(3):215–7

Choledocho-duodenal fistula due to tuberculosis. Chaudhary A, et al. **Indian J Gastroenterol** 1989 Oct;8(4):293–4

Thermal laser-induced stenosis of the common bile duct. An alternative model for experimental research. Vorwerk D, et al. **Invest Radiol** 1989 Oct;24(10):758–61

Heterotopic pancreas: a rare cause of bile duct dilatation—report of a case and review of the literature. Tsunoda T, et al. **Jpn J Surg** 1990 Mar;20(2):217–20 (9 ref.)

Treatment of chronic pancreatitis complicated by obstruction of the common bile duct or duodenum. Frey CF, et al. **World J Surg** 1990 Jan–Feb;14(1):59–69 (43 ref.)

[Choledocho-gastric fistula. A rare complication of a cholangiocarcinoma] Beck A, et al. **Radiologe** 1989 Aug; 29(8):391–3 (Eng. Abstr.) (Ger)

[A massively dilated ductus choledochus in choledocholithiasis following cholecystectomy and choledochojejunostomy] Petri H, et al. **ROFO** 1989 Oct; 151(4):496–7 (Ger)

[Hemosuccus pancreaticus following rupture of a hepatic artery aneurysm] De Mas R, et al. **Z Gastroenterol** 1989 Dec;27(12):736–8 (Eng. Abstr.) (Ger)

[Chronic duodenal compression by the mesenteric artery complicated by mechanical jaundice] Gushcha AL, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):82–3 (Rus)

[Malignant strictures of the bile ducts] Blagovidov DF, et al. **Klin Med (Mosk)** 1989 Oct;67(10):23–8 (31 ref.) (Rus)

[The role of opisthorchiasis in the development of mechanical jaundice and its treatment] Egizarian VT, et al. **Vestn Khir** 1989 Apr;142(4):110–3 (Rus)

[Duodenal ulcer and duodenocholedochal fistula] Manuel Palazuelos C, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):53–4 (Eng. Abstr.) (Spa)

METABOLISM

Increased secondary bile acids in a choledochal cyst. Possible role in biliary metaplasia and carcinoma. Reveille RM, et al. **Gastroenterology** 1990 Aug;99(2):525–7

Bronze baby syndrome: an animal model. Jori G, et al. **Pediatr Res** 1990 Jan;27(1):22–5

PATHOLOGY

Pathology of common bile duct stenosis in cystic fibrosis. Bilton D, et al. **Gut** 1990 Feb;31(2):236–8

[Diagnosis of the nature of biliary stenoses: role of exfoliative cytology by external biliary drainage] Raule M, et al. **Ann Chir** 1989;43(6):425–8 (Eng. Abstr.) (Fre)

[A case of common bile duct cyst] Tkachenko VP, et al. **Klin Khir** 1989;(9):57 (Rus)

PHYSIOPATHOLOGY

Sphincter of Oddi motility. Funch-Jensen P. **Acta Chir Scand Suppl** 1990;553:1–35 (210 ref.)

PREVENTION & CONTROL

[Biliary peritonitis following bile duct revision with T-drainage implantation—problems of choosing the right material] Walz M, et al. **Chirurg** 1990 May;61(5):409–10 (Ger)

RADIOGRAPHY

Computed tomography evaluation of high-density bile in the gallbladder. Ueda J, et al. **Gastrointest Radiol** 1990 Winter; 15(1):22–6

[Diverticulosis of the distal end of the choledochus demonstrated by retrograde endoscopic cholangiopancreatography. Apropos of 5 case reports] Bastid C, et al. **Acta Gastroenterol Belg** 1989 Jan–Apr; 52(1–2):33–8 (Eng. Abstr.) (Fre)

[Duodenoscopic cholangiopancreatography (ERCP) in the diagnosis of iatrogenic lesions of the common bile duct] Orsitto E, et al. **Radiol Med (Torino)** 1989 Sep;78(3):196–9 (Eng. Abstr.) (Ita)

[A new method of diagnosing the extent of stenosis of the terminal common bile duct and a major duodenal papilla] Iangibaev Z. **Vestn Khir** 1990 Jan;144(1):121–2 (Rus)

RADIONUCLIDE IMAGING

Scintigraphic cholecystokinin-induced bile reflux named as Krishnamurthy-Bobba sign [letter; comment] Brar HS. **J Nucl Med** 1990 Feb;31(2):248–9 Comment on: J Nucl Med 1989 Jul;30(7):1192–7.

SURGERY

Surgical treatment of chronic pancreatic cholangiopathy. Pereira-Lima L, et al. **Br J Surg** 1989 Nov;76(11):1129–31

Endoscopic implantation of large-bore self-expanding biliary mesh stent. Domschke W, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):55–7

Endoscopic sphincterotomy in outpatients. Podolsky I, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):372–6

Sphincter of Oddi response to caerulein after endoscopic sphincterotomy for papillary stenosis. Yasui A, et al. **Surg Endosc** 1989;3(4):216–9

Operative strategy in Mirizzi syndrome. Dewar G, et al. **Surg Gynecol Obstet** 1990 Aug;171(2):157–9

[Therapeutic methods of digestive tract endoscopy in older persons] Frič P, et al. **Cas Lek Cesk** 1989 Dec 1; 128(49):1550–3 (Eng. Abstr.) (Cze)

[Results of bilio-digestive anastomoses in benign diseases excluding intra-hepatic lithiasis] Zaouche A, et al. **Tunis Med** 1990 Apr;68(4):259–66 (25 ref.) (Eng. Abstr.) (Fre)

[Cavernous transformation of the portal vein. A rare cause of mechanical obstructive „jaundice] Henne-Bruns D, et al. **Chirurg** 1989 Oct;60(10):704–6 (Ger)

[Bilio-digestive anastomosis (our experience)] Vigoni A, et al. **Chir Ital** 1989 Aug–Dec;41(4–6):232–8 (Eng. Abstr.) (Ita)

[Surgery of a cicatricial stenosis of the common bile duct] Possati L. **Chir Patol Sper** 1985 Dec;33(6):183–90 (20 ref.) (Ita)

[Is hyperbilirubinemia a risk factor in biliary surgery?] Conti A, et al. **G Chir** 1989 Oct;10(10):553–6 (Eng. Abstr.) (Ita)

[Papillostomy: indication, surgical technic and results] Montesani C, et al. **G Chir** 1989 Jul–Aug;10(7–8):421–6 (Ita)

[Method for treatment of opisthorchiasis-induced cholangitis] A'perovich BI, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):112–4 (Rus)

[Indications for choledochotomy and methods for its performance] Baskakov VA, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):54–7 (Eng. Abstr.) (Rus)

[Treatment of acute cholecystitis complicated by mechanical jaundice] Gilenko IA. **Khirurgiia (Mosk)** 1989 Jul;(7):36–9 (Eng. Abstr.) (Rus)

[Diagnosis and treatment of post-cholecystectomy syndrome] Gostishchev, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):8–11 (Eng. Abstr.) (Rus)

[Use of mechanical devices in biliary tract surgery] Gusarev VF, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):114–9 (Rus)

[Surgical treatment of complex external biliary fistula] Masalin MM, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):132 (Rus)

[Surgical tactics in mechanical jaundice] Nesterenko IuA, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):14–7 (Eng. Abstr.) (Rus)

[Transhepatic endoprosthesis of the bile ducts] Prokubovskiĭ VI, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):18–23 (Eng. Abstr.) (Rus)
[Acute cholecystitis and its complications] Rodionov VV, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):31–6 (Eng. Abstr.) (Rus)
[Comparative evaluation of the results of traditional and laser papillosphincterotomy] Skobelkin OK, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):24–6 (Eng. Abstr.) (Rus)
[Diagnosis and surgical treatment of common bile duct cysts in children] Krivchenia DIu, et al. **Klin Khir** 1990;(6):10–2 (Eng. Abstr.) (Rus)
[Diagnosis and treatment of cicatricial strictures of the extrahepatic bile ducts] Shalimov SA, et al. **Klin Khir** 1989;(11):17–9 (Eng. Abstr.) (Rus)
[Transduodenal papillosphincterotomy in the treatment of nontumorous lesions of the terminal portion of the common bile duct] Shaposhnikov AV, et al. **Klin Khir** 1989;(9):39–41 (Eng. Abstr.) (Rus)
[Endoscopic papillosphincterotomy and nasobiliary drainage in the surgery of the organs of the hepato–pancreato–duodenal zone] Lutsevich EV, et al. **Sov Med** 1990;(4):87–90 (Rus)
[Nasobiliary drainage in choledocholithiasis and benign strictures of the common bile duct] Reviakin VI, et al. **Sov Med** 1989;(8):103–6 (Rus)
[Diagnostic possibilities of intraoperative examination of bile ducts] Kochnev OS. **Vestn Khir** 1990 Mar;144(3):56–7 (Rus)
[Increasing the effectiveness of lymphosorption in patients with mechanical jaundice] Veronskiĭ GI, et al. **Vestn Khir** 1989 Aug;144(8):29–33 (Eng. Abstr.) (Rus)

THERAPY

Bile duct stricture in an infant with gastroschisis treated by percutaneous transhepatic drainage, biliary stenting, and balloon dilation. Hancock BJ, et al. **J Pediatr Surg** 1989 Oct;24(10):1071–3
[Intubation of proximal biliary stenoses using a new surgical endoprosthesis] Sezeur A, et al. **Ann Chir** 1989;43(6):421–4 (Eng. Abstr.) (Fre)
[Bacteremia in therapeutic endoscopy] Stöppel G, et al. **Fortschr Med** 1990 Feb 28;108(6):100, 101–2 (Eng. Abstr.) (Ger)

COMMON BILE DUCT NEOPLASMS

Adenomyoma of the common bile duct. Legakis NC, et al. **Arch Surg** 1990 Apr;125(4):543
Ampullary neoplasia: an endoscopic approach. Levine JG, et al. **Gastroenterology** 1990 Feb;98(2):539–41
Pancreatic head carcinoma. Lygidakis NJ, et al. **Hepatogastroenterology** 1989 Dec;36(6):409–11 (32 ref.)
[Ampullar, peri–ampullar and colonic tumors: an association not to be disregarded? Apropos of 3 cases (letter)] Kunkel D, et al. **Gastroenterol Clin Biol** 1990;14(5):512–3 (Fre)
[Malignant somatostatinoma of the papilla major and minor] Heidt H, et al. **Dtsch Med Wochenschr** 1989 Nov 10;114(45):1740–3 (Eng. Abstr.) (Ger)

COMPLICATIONS

Villous adenoma of the ampulla of Vater. An unusual cause of biliary colic and obstructive jaundice. Sobol S, et al. **Gastroenterology** 1978 Jul;75(1):107–9 (38 ref.)
Intermittent biliary obstruction secondary to a mobile ampullary adenoma. Goldberg RI, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):574–6
Carcinoid tumour of the common bile duct—a novel complication of von Hippel–Lindau syndrome. Fellows IW, et al. **Gut** 1990 Jun;31(6):728–9
Adenocarcinoma of the ampulla of vater associated with neurofibromatosis [letter] Colarian J, et al. **J Clin Gastroenterol** 1990 Feb;12(1):118–9
Recurrent acute pancreatitis caused by ampullary villous adenoma. Guzzardo G, et al. **J Clin Gastroenterol** 1990 Apr;12(2):200–2 (10 ref.)
Spontaneous cutaneous biliary fistula: a rare complication of cholangiocarcinoma. Kuo YC, et al. **J Clin Gastroenterol** 1990 Aug;12(4):451–3
Heterotopic pancreas: a rare cause of bile duct dilatation—report of a case and review of the literature. Tsunoda T, et al. **Jpn J Surg** 1990 Mar;20(2):217–20 (9 ref.)
Von Recklinghausen neurofibromatosis with carcinoid tumor and submucous leiomyomas of the duodenum. Fernández MT, et al. **Neurofibromatosis** 1988;1(5–6):294–8
[Adenomyoma of the distal common bile duct. An uncommon cause of stenosis of the extrahepatic bile duct] Thomas P, et al. **Gastroenterol Clin Biol** 1990;14(3):283–5 (15 ref.) (Eng. Abstr.) (Fre)
[Malignant transformation of ectopic pancreas. An unusual cause of acquired duodenal stenosis with cholestasis in a 26–year–old patient] Franke U, et al. **Internist (Berlin)** 1989 Aug;30(8):525–7 (Ger)
[A case of carcinoma of the papilla Vater associated with multiple intramural bile duct cysts and polycystic disease] Kamiya Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug;86(8):1705–9 (Jpn)
[Carcinoma of the papilla of Vater associated with pancreatolithiasis—a case report] Ogiso S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2456–9 (Jpn)
[Hemangioendothelioma of the pancreas and choledochus, as a cause of cholestatic neonatal and Kasabach–Merrit syndromes] Villegas–Alvarez F, et al. **Bol Med Hosp Infant Mex** 1989 Oct;46(10):672–5 (Eng. Abstr.) (Spa)
[Adenocarcinoma in a choledochal cyst. Report of a case and review of the literature] Herrera Cabezón J, et al. **Rev Esp Enferm Apar Dig** 1989 Oct;76(4):381–4 (27 ref.) (Eng. Abstr.) (Spa)

DIAGNOSIS

Brush cytology evaluation of lesions encountered during ERCP. Scudera PL, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):281–4
[The diagnosis and surgical treatment of cancer of the major duodenal papilla] Ignatov D, et al. **Khirurgiia (Sofiia)** 1990;43(2):30–2 (Eng. Abstr.) (Bul)
[The diagnosis and treatment of cancer of the papilla of Vater] Tsankov N. **Khirurgiia (Sofiia)** 1990;43(1):42–4 (Eng. Abstr.) (Bul)
[Comparative efficacy of sonography, computed tomography, ERCP and angiography in the diagnosis of primary papillary carcinomas] Crone–Münzebrock W, et al. **Rontgenblatter** 1990 Jun;43(6):266–9 (Eng. Abstr.) (Ger)
[Adenocarcinoma (Klatskin tumor) of the hepatic duct simulating viral hepatitis] Debreceni L, et al. **Orv Hetil** 1990 Jun 24;131(25):1367–9 (Eng. Abstr.) (Hun)
[A case of double primary carcinomas of the pancreatic head and intrapancreatic bile duct, hardly diagnosed preoperatively] Yoshii K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2260–4 (Jpn)
[A case of hyperplastic polypoid lesion in the common bile duct hard to differentiate from early bile duct carcinoma] Ohashi A, et al. **Rinsho Hoshasen** 1990 Jun;35(6):765–8 (Eng. Abstr.) (Jpn)
[Endoscopic diagnosis and treatment of tumors of the major duodenal papilla] Balalykin AS, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):56–61 (Eng. Abstr.) (Rus)
[Cancer of the ampullar region] Grases PJ, et al. **GEN** 1989 Apr–Jun;43(2):104–11 (37 ref.) (Eng. Abstr.) (Spa)

DRUG THERAPY

Tamoxifen therapy in unresectable adenocarcinoma of the pancreas and the papilla of Vater. Bakkevold KE, et al. **Br J Surg** 1990 Jul;77(7):725–30
[Biliary and pancreatic excretion of methotrexate (MTX) and 5–FU on the MTX/5–FU sequential therapy] Suda Y, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1357–63 (Eng. Abstr.) (Jpn)

ETIOLOGY

Increased secondary bile acids in a choledochal cyst. Possible role in biliary metaplasia and carcinoma. Reveille RM, et al. **Gastroenterology** 1990 Aug;99(2):525–7
Periampullary neoplasms in von Recklinghausen's disease. Klein A, et al. **Surgery** 1989 Nov;106(5):815–9 (37 ref.)

GENETICS

Chromosome 5 allele loss in human gastric, ampullary and pancreatic carcinomas. Michelassi F, et al. **Ital J Surg Sci** 1989;19(4):341–4
DNA ploidy and cell–cycle analysis in pancreatic and ampullary carcinoma: flow cytometric study of formalin–fixed paraffin–embedded tissue. Baisch H, et al. **Virchows Arch [A]** 1990;417(2):145–50
[A case of familial colonic polyposis with metachronous duodenal cancer] Müller H, et al. **Med Klin** 1990 Mar;85 Suppl 1:144–6 (Ger)

IMMUNOLOGY

Non–invasive adenomatous component in carcinoma of papilla of Vater: an immunohistochemical study of carbohydrate antigen, CA19–9. Yamauchi H, et al. **Tohoku J Exp Med** 1989 Sep;159(1):81–2

METABOLISM

Do periampullary carcinomas produce mucin? [letter; comment] Malik AK, et al. **Am J Gastroenterol** 1989 Oct;84(10):1331–2 Comment on: Am J Gastroenterol 1988 Oct;83(10):1118–23.

MORTALITY

Non–icteric ampullary carcinoma with a favorable prognosis. Yamaguchi K, et al. **Am J Gastroenterol** 1990 Aug;85(8):994–9
Pathological factors influencing survival of carcinoma of the ampulla of Vater. Mori K, et al. **Eur J Surg Oncol** 1990 Jun;16(3):183–8

PATHOLOGY

Obstructing villous adenoma and papillary adenomatosis of the bile ducts. Harshfield DL, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1217–8
Significance of tumor spread in adenocarcinoma of the ampulla of Vater. Delcore R Jr, et al. **Am J Surg** 1989 Dec;158(6):593–6; discussion 596–7
Small–cell neuroendocrine carcinoma of the ampullary region. A clinicopathologic, immunohistochemical, and ultrastructural study of three cases. Zamboni G, et al. **Am J Surg Pathol** 1990 Aug;14(8):703–13
Duodenal and peri–ampullary adenomas. Qizilbash AH. **Curr Top Pathol** 1990;81:77–90 (32 ref.)
Carcinoma in adenoma of the ampulla of Vater synchronous with cancer of the sigmoid colon. Yoshida J, et al. **Dig Dis Sci** 1990 Feb;35(2):271–5 (27 ref.)
Small cell neuroendocrine (oat cell) tumour of the common bile duct. van der Wal AC, et al. **Histopathology** 1990 Apr;16(4):398–400
Ampullopancreatic carcinoma: preoperative TNM classification with endosonography. Tio TL, et al. **Radiology** 1990 May;175(2):455–61
Carcinoma of the hepatic confluence 25 years after Klatskin's description: diagnosis and endoscopic management. Van Leeuwen DJ, et al. **Semin Liver Dis** 1990 May;10(2):102–13 (60 ref.)
Heterotopic gastric mucosa in the common bile duct. Evans MM, et al. **Surgery** 1990 Jul;108(1):96–100 (16 ref.)
[Cardiac metastasis secondary to digestive adenocarcinoma. A case report] Joundi A, et al. **Arch Anat Cytol Pathol** 1990;38(3):111–3 (Eng. Abstr.) (Fre)
[The significance of papillary biopsy in obstruction of Vater's papilla] Schulz JE, et al. **Leber Magen Darm** 1990 Mar;2(2):71–5 (Eng. Abstr.) (Ger)
[Endoscopy and biopsy of the pancreatic duct—a new method of pancreas diagnosis] Stömmer P, et al. **Leber Magen Darm** 1989 Dec;19(6):311–8 (Eng. Abstr.) (Ger)
[Papilla carcinoma and adenoma—diagnosis and therapy] Bosseckert H, et al. **Schweiz Rundsch Med Prax** 1990 Apr 24;79(17):530–2 (Eng. Abstr.) (Ger)
[Psammomatous somatostatinoma of Vater's papilla. A case report] Opocher E, et al. **Minerva Med** 1989 Aug;80(8):879–81 (Ita)
[A double cancer of the gallbladder and common bile duct associated with an anomalous arrangement of the choledocho–pancreatic ductal junction—a case report and a review of the literature] Uetsuji S, et al. **Gan No Rinsho** 1990 May;36(6):752–7 (13 ref.) (Eng. Abstr.) (Jpn)
[Clinical study on five cases of carcinoma of the papilla of Vater confined to the mucosa] Fujita N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2444–50 (Jpn)
[Degenerated papillomatosis of the bile duct] De Castro Gutiérrez J, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):51–4 (20 ref.) (Eng. Abstr.) (Spa)

RADIOGRAPHY

Is preoperative angiography useful in patients with periampullary tumors? Dooley WC, et al. **Ann Surg** 1990 Jun;211(6):649–54; discussion 654–5
Case of the month. Digging for a diagnosis. Gardner's syndrome complicated by a periampullary carcinoma. Jäger HR, et al. **Br J Radiol** 1990 Feb;63(746):143–4
Tumors of the ampulla diagnosed by CT hypotonic duodenography. Pandolfo I, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):199–200
[Periampullary carcinoma as a second primary tumor following a previously treated adenocarcinoma of the colon] Trum JW, et al. **Ned Tijdschr Geneeskd** 1989 Sep 16;133(37):1844–7 (Eng. Abstr.) (Dut)

SECONDARY

Late presentation of metastatic renal cell carcinoma as a bleeding ampullary mass. Robertson GS, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):304–6
Biliary tract melanoma. Cohen AJ, et al. **Milit Med** 1990 Jan;155(1):5–8

SURGERY

Local resection of tumors of the ampulla of Vater. Sharp KW, et al. **Am Surg** 1990 Apr;56(4):214–7 (18 ref.)
Experience with 647 consecutive tumors of the duodenum, ampulla, head of the pancreas, and distal common bile duct. Michelassi F, et al. **Ann Surg** 1989 Oct;210(4):544–54; discussion 554–6 (68 ref.)
Pancreaticoduodenectomy and the celiac artery compression syndrome. Kohler TR, et al. **Ann Vasc Surg** 1990 Jan;4(1):77–80
Endoscopic sphincterotomy for the palliation of ampullary carcinoma. Bickerstaff KI, et al. **Br J Surg** 1990 Feb;77(2):160–2
Pancreatic exocrine function after a sutureless pancreatico–jejunostomy following pancreaticoduodenectomy. Hall RI, et al. **Br J Surg** 1990 Jan;77(1):83–5
Intraoperative fiberoptic choledochoscopy for malignant biliary tract obstruction. Chen MF, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):545–7
Endoscopic sphincterotomy in outpatients. Podolsky I, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):372–6
A placebo–controlled study on the efficacy of aspirin and doxycycline in preventing clogging of biliary endoprostheses. Smit JM, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):485–9
Diagnosis and treatment of malignant oddian tumors. Suter M, et al. **Helv Chir Acta** 1989 Dec;56(4):471–9

Pancreaticoduodenal resection for pancreatic or periampullary tumors—a ten-year experience. Ceuterick M, et al. **Hepatogastroenterology** 1989 Dec;36(6):467–73

Current status of pancreaticoduodenectomy for periampullary carcinoma. Crist DW, et al. **Hepatogastroenterology** 1989 Dec;36(6):478–85

Results of pancreatoduodenectomy for carcinoma of the head of the pancreas. Kairaluoma MI, et al. **Hepatogastroenterology** 1989 Dec;36(6):412–8

Reconstruction after subtotal duodenopancreatectomy in patients with pancreatic duct, distal bile duct and ampullary carcinoma: further experience with a personal technique. Lygidakis NJ, et al. **Hepatogastroenterology** 1989 Dec; 36(6):486–9

Meningioma as an incidental finding in an intensive care unit. Tighe SQ, et al. **J R Nav Med Serv** 1989 Winter; 75(3):147–50

Whipple operation revisited. Spain DA, et al. **N J Med** 1990 Jan;87(1):41–4

Endoscopic sphincterotomy and endoscopic fulguration in the management of adenoma of the papilla of Vater. Shemesh E, et al. **Surg Gynecol Obstet** 1989 Nov; 169(5):445–8

Experience with pylorus-preserving pancreatoduodenectomies [letter; comment] Ramesh H, et al. **Surgery** 1990 Jun;107(6):715–6 Comment on: Surgery 1989 May;105(5):645–53.

[Analysis of the surgical treatment of pancreas head and peri-ampullary carcinoma in 236 patients] Jeekel J, et al. **Ned Tijdschr Geneeskd** 1989 Dec 16;133(50):2509–14 (Eng. Abstr.) **(Dut)**

[Prognostically relevant factors in cancer of Vater's ampulla] Böttger T, et al. **Langenbecks Arch Chir** 1989;374(6):358–62 (Eng. Abstr.) **(Ger)**

[Technic of papilloduodenectomy] Gertsch P, et al. **Langenbecks Arch Chir** 1990;375(4):246–50 (25 ref.) (Eng. Abstr.) **(Ger)**

[Duodenopancreatectomy as the treatment of primary duodenal cancer] Rintala E, et al. **Zentralbl Chir** 1989; 114(14):919–23 (Eng. Abstr.) **(Ger)**

[Correlation of tumor site and tumor volume in radical surgery of cancer of the peripapillary area] Sellner F, et al. **Zentralbl Chir** 1990;115(1):43–50 (Eng. Abstr.) **(Ger)**

[Duodenopancreatectomy with conservation of the pylorus] Lombardi M, et al. **Minerva Chir** 1989 Oct 31; 44(20):2137–41 (Eng. Abstr.) **(Ita)**

[Conservative intervention in tumors of the papilla of Vater. Apropos of 2 new cases] Orecchia C, et al. **Minerva Chir** 1989 Sep 15;44(17):1949–52 (Eng. Abstr.) **(Ita)**

[Cancer of the major duodenal papilla in a pregnant woman] Izraelashvili MSh, et al. **Khirurgiia (Mosk)** 1989 Jul; (7):135–6 **(Rus)**

[A method of gastropancreatoduodenal resection] Patiutko IuI, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):133–5 **(Rus)**

[External drainage of the pancreatic duct after pancreatoduodenal resection] Seidov VD, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):134–5 **(Rus)**

[Diagnosis and treatment of cancer of the major duodenal papilla] Zykov IuA, et al. **Khirurgiia (Mosk)** 1989 Jul; (7):25–8 (Eng. Abstr.) **(Rus)**

[Tumors of Vater's ampulla. Review of 25 cases] Benito Ruiz J, et al. **Rev Esp Enferm Apar Dig** 1989 Aug;76(2):144–50 (24 ref.) (Eng. Abstr.) **(Spa)**

[Villous adenoma of the duodenum. Presentation of a case] Benito C, et al. **Rev Esp Enferm Dig** 1990 May;77(5):357–9 (Eng. Abstr.) **(Spa)**

[Nutritional status and cephalic duodenopancreatectomy in neoplasm treatment] Capellá G, et al. **Rev Esp Enferm Dig** 1990 May;77(5):341–4 (Eng. Abstr.) **(Spa)**

THERAPY

Endoscopic fistulotomy and biliary drainage as the ultimate palliative treatment for obstruction due to malignant tumors of the papilla of Vater. Feretis C, et al. **Surg Endosc** 1990; 4(2):88–90

[Clinical aspects, diagnosis and therapy of cancer of Vater's ampulla] Erdmann K, et al. **Z Gesamte Inn Med** 1989 Oct 15;44(20):617–21 (20 ref.) (Eng. Abstr.) **(Ger)**

[Transpapillary endoprostheses in malignant and benign bile duct diseases] Liebe S, et al. **Z Gesamte Inn Med** 1989 Oct 15;44(20):612–7 (Eng. Abstr.) **(Ger)**

[Endoscopic papillotomy in the treatment of choledocholithiasis—technic, indications, results] Schulz HJ. **Z Gesamte Inn Med** 1989 Oct 15;44(20):609–12 (Eng. Abstr.) **(Ger)**

COMMON COLD

What's new on the common cold. Tyrrell D. **Practitioner** 1990 Apr 22;234(1487):391–2, 395

BLOOD

Modulation of thymosin alpha 1 and thymosin beta 4 levels and peripheral blood mononuclear cell subsets during experimental rhinovirus colds. Hsia J, et al. **Lymphokine Res** 1989 Winter;8(4):383–91

COMPLICATIONS

Snoring in children: association with respiratory symptoms and passive smoking [published erratum appears in BMJ 1990 Jan 27;300(6719):226] Corbo GM, et al. **BMJ** 1989 Dec 16;299(6714):1491–4

DIAGNOSIS

Evaluation of a new enzyme-linked immunosorbent assay (ELISA) in the diagnosis of rhinovirus infection. al-Nakib W, et al. **J Med Virol** 1989 Dec;29(4):268–72

DRUG THERAPY

The effectiveness of the nonsedating antihistamine loratadine plus pseudoephedrine in the symptomatic management of the common cold. Berkowitz RB, et al. **Ann Allergy** 1989 Oct;63(4):336–9

Aspirin-containing analgesics and cold preparations [letter] Davidson CL, et al. **Ann Allergy** 1989 Nov;63(5):471–2

Organic affective psychosis associated with the routine use of non-prescription cold preparations. Brown TM, et al. **Br J Psychiatry** 1990 Apr;156:572–5

Immune modulation by aspirin during experimental rhinovirus colds. Hsia J, et al. **Bull N Y Acad Med** 1989 Jan;65(1):45–56

Evaluation of an alpha agonist alone and in combination with a nonsteroidal antiinflammatory agent in the treatment of experimental rhinovirus colds. Sperber SJ, et al. **Bull N Y Acad Med** 1989 Jan;65(1):145–60

Nonprescription cough and cold remedies [letter] Lexchin J. **Can Med Assoc J** 1990 Aug 1;143(3):175

Nonprescription cough and cold remedies [letter] Rathbun FJ. **Can Med Assoc J** 1990 Apr 15;142(8):801

The effect of intranasal nedocromil sodium on viral upper respiratory tract infections in human volunteers. Barrow GI, et al. **Clin Exp Allergy** 1990 Jan;20(1):45–51

The effects of menthol on reaction time and nasal sensation of airflow in subjects suffering from the common cold. Eccles R, et al. **Clin Otolaryngol** 1990 Feb;15(1):39–42

Zinc gluconate lozenges for common cold. A double-blind clinical trial. Weismann K, et al. **Dan Med Bull** 1990 Jun; 37(3):279–81

Separation and determination of the ingredients of a cold medicine by micellar electrokinetic chromatography with bile salts. Nishi H, et al. **J Chromatogr** 1990 Jan 12; 498(2):313–23

Effectiveness of antihistamines in common cold. Sakchainanont B, et al. **J Med Assoc Thai** 1990 Feb; 73(2):96–101

Erythromycin-induced carbamazepine intoxication in two epileptic children. Tagawa T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):513–4

The microchip microbe hunters [news] Alper J. **Science** 1990 Feb 16;247(4944):804–6

[Receptors and common colds] Hof S. **Med Monatsschr Pharm** 1990 Aug;13(8):234–5 **(Ger)**

[Therapeutic value of flavonoids in Rhinovirus infections] Szmeja Z, et al. **Otolaryngol Pol** 1989;43(3):180–4 (Eng. Abstr.) **(Pol)**

HISTORY

Adventures among viruses. III. The puzzle of the common cold. 1950 [classical article] Andrewes CH. **Rev Infect Dis** 1989 Nov–Dec;11(6):1022–8

The Medical Research Council Common Cold Unit, Harvard Hospital, Salisbury, Wilts, England. Jackson GG. **Rev Infect Dis** 1989 Nov–Dec;11(6):1020–1

IMMUNOLOGY

The time course of the humoral immune response to rhinovirus infection. Barclay WS, et al. **Epidemiol Infect** 1989 Dec;103(3):659–69

Peripheral blood mononuclear cell interleukin-2 and interferon-gamma production, cytotoxicity, and antigen-stimulated blastogenesis during experimental rhinovirus infection. Hsia J, et al. **J Infect Dis** 1990 Sep; 162(3):591–7

METABOLISM

Kinins are generated in nasal secretions during natural rhinovirus colds. Proud D, et al. **J Infect Dis** 1990 Jan; 161(1):120–3

Receptors and the common cold. Enna SJ, et al. **Trends Pharmacol Sci** 1989 Oct;10(10):387–8 (16 ref.)

PATHOLOGY

Rhinovirus infections in hospitalized children. Provocative bacterial interrelationships. Cherry JD, et al. **Arch Environ Health** 1967 Mar;14(3):390–6

PHYSIOPATHOLOGY

Recent studies on the rule of kinins in inflammatory diseases of human airways. Proud D, et al. **Adv Exp Med Biol** 1989; 247A:117–23

Effect of inhaling heated vapor on symptoms of the common cold. Macknin ML, et al. **JAMA** 1990 Aug 22–29; 264(8):989–91

PREVENTION & CONTROL

Ineffectiveness of recombinant interferon-beta serine nasal drops for prophylaxis of natural colds. Sperber SJ, et al. **J Infect Dis** 1989 Oct;160(4):700–5

Pernasal vitamin C and the common cold [letter] Gotzsche AL. **Lancet** 1989 Oct 28;2(8670):1039

Saunas can prevent the common cold. **Practitioner** 1989 Nov 22;233(1479):1520

[Vitamin C and the common cold; review of a megadosis literature] Kleijnen J, et al. **Ned Tijdschr Geneeskd** 1989 Aug 5;133(31):1532–5 (73 ref.) **(Dut)**

PSYCHOLOGY

Effects and after-effects of the common cold and influenza on human performance. Smith AP, et al. **Neuropsychobiology** 1989;21(2):90–3

THERAPY

The origins of the Common Cold Unit. Tyrrell D. **J R Coll Physicians Lond** 1990 Apr;24(2):137–40

COMMON COLD VIRUS see **RHINOVIRUSES**

COMMON HEPATIC DUCT see **HEPATIC DUCT, COMMON**

COMMON MARKET see **EUROPEAN ECONOMIC COMMUNITY**

COMMUNICABLE DISEASE CONTROL

see related
DISEASE RESERVOIRS
DISEASE VECTORS

Human behavior and the communicable diseases of childhood. Dunn FL. **Am J Public Health** 1990 Feb; 80(2):141–2 (21 ref.)

Medical schools and immunization policies: missed opportunities for disease prevention. Poland GA, et al. **Ann Intern Med** 1990 Oct 15;113(8):628–31

Putting biomedical knowledge to use in the Third World. Grant JP. **Ann N Y Acad Sci** 1989;569:xi–xvii

World Health Organization Expanded Programme on Immunization: progress and evaluation report. Henderson RH. **Ann N Y Acad Sci** 1989;569:45–68

Perspectives on research and diseases of the Tropics: an Asian view. Ramalingaswami V. **Ann N Y Acad Sci** 1989; 569:25–35 (11 ref.)

Social science and the improvement of tropical disease control programs. Singer B. **Ann N Y Acad Sci** 1989; 569:275–87 (34 ref.)

Biomedical science and the third world. Under the volcano. Epidemiologic problems and prospects. Smith PG. **Ann N Y Acad Sci** 1989;569:219–30 (6 ref.)

'Cross infection control—a challenge for Europe' [letter] Rothwell PS. **Br Dent J** 1990 Jan 20;168(2):51

The use of evaluation to improve the Expanded Programme on Immunization in Mozambique. Cutts F, et al. **Bull World Health Organ** 1990;68(2):199–208

Annual summer program in epidemiology and biostatistics. **Can Dis Wkly Rep** 1990 Jan 27;16(4):18–9, 22 **(Eng, Fre)**

CDSC: from Cox to Acheson. Galbraith NS. **Community Med** 1989 Aug;11(3):187–99

Controversies in infection control. Molinari JA, et al. **Dent Clin North Am** 1990 Jan;34(1):55–69 (58 ref.)

AIDS [editorial] Reppun JI. **Hawaii Med J** 1990 Jul; 49(7):224, 227

Role of veterinary department in the control of zoonotic diseases. Rao KH. **Indian J Public Health** 1988 Apr–Jun; 32(2):65–9

Control of communicable diseases & child survival. Tiwari IC. **Indian J Public Health** 1988 Apr–Jun;32(2):57–60

Current challenges and future opportunities. Bentley DW. **Infect Control Hosp Epidemiol** 1989 Oct;10(10):481–3 (29 ref.)

'Puzzled' by letters: a double standard? [letter] Bonang DM. **J Can Dent Assoc** 1990 Apr;56(4):301–2

An update on the human immunodeficiency virus and infection control. Hardie J. **J Can Dent Assoc** 1990 May; 56(5):423–6

Use of non-sterile gloves in clinical practice. Burke FJ. **J Dent** 1990 Apr;18(2):79–89 (124 ref.)

Infection control in dental offices [letter] Cottone JA. **J Dent Educ** 1990 Aug;54(8):498

A comparison of in-service teaching methods on clinic aspesis for dental personnel. Fotos PG, et al. **J Dent Educ** 1990 Apr;54(4):248–9

Continuing progress in infection control in U.S. dental schools. Merchant VA, et al. **J Dent Educ** 1990 Aug; 54(8):521–6

Dentists, infections and clinical waste from the dental surgery. Hawkes AJ. **J R Soc Health** 1989 Oct;109(5):153–5

From the Centers for Disease Control. International Task Force for Disease Eradication. **JAMA** 1990 May 2; 263(17):2294, 2296

Infection control guidelines for CPR providers [editorial] Cummins RD. **JAMA** 1989 Nov 17;262(19):2732–3

Working with African nations to improve the health of their children. Combatting childhood communicable diseases. Foster SO, et al. **JAMA** 1990 Jun 27;263(24):3303–5

Preventing disease and promoting health [news] Goldsmith MF. **JAMA** 1990 May 16;263(19):2593, 2596

It's peacetime, but war against disease continues [news]

Marwick C. JAMA 1990 Aug 22-29;264(8):944
International Task Force for Disease Eradication. MMWR 1990 Apr 6;39(13):209–12, 217–8
[Principles in the fight against communicable diseases. II] Zusková D. Zdrav Aktual 1986;210:1–175 (Cse)
[Principles in the fight against communicable diseases] Zusková D. Zdrav Aktual 1984;203:1–179 (Cse)
[Prophylactic inoculations for travels abroad] Höfler W. Dtsch Med Wochenschr 1990 Jun 29;115(26):1023–5 (Ger)
[Endemic disease control in the area around the Tucurui Power Plant] Langanke KH. Rev Bras Malariol Doencas Trop 1986;38:129–35 (Eng. Abstr.) (Por)
[Evaluation of the quality of planning of anti-epidemic measures by the sanitary-epidemiological stations of the Ukraine] Proklina TL, et al. Gig Sanit 1989 Jul;(7):58–60 (Rus)
[Experience in organizing epidemic control work in catastrophes] Perepelkin VS, et al. Voen Med Zh 1990 Apr;(4):56–9 (Eng. Abstr.) (Rus)
[Morbidity from zoonotic and natural-focus infections and the problems of their prevention in the USSR] Kondrusev AI, et al. Zh Mikrobiol Epidemiol Immunobiol 1989 Dec;(12):106–8 (Rus)

ECONOMICS

Cost-effectiveness of routine and campaign vaccination strategies in Ecuador. Shepard DS, et al. Bull World Health Organ 1989;67(6):649–62
The government's response to AIDS. Palmer C. J Am Dent Assoc 1989 Oct;119(4):507–12

HISTORY

Gordon memorial lecture. Vaccines and vaccination—past, present and future. Biggs PM. Br Poult Sci 1990 Mar;31(1):3–22
Personal reflections on nosocomial staphylococcal infections and the development of hospital surveillance [published erratum appears in Rev Infect Dis 1990 Mar-Apr;12(2):373] Wise RI, et al. Rev Infect Dis 1989 Nov-Dec;11(6):1005–19
[Cholera in 1831. Challenges for science and the federal government] Stamm-Kuhlmann T. Sudhoffs Arch 1989;73(2):176–89 (Eng. Abstr.) (Ger)
[On the thirtieth anniversary of the act for tuberculosis control in Poland] Moskwa Z. Wiad Lek 1989 Nov 15-Dec 15;42(22–24):1163–6 (Pol)
[Sanitary Committee of the City of Warsaw (1915)] Więckowska E. Wiad Lek 1989 Oct 1-Nov 1;42(19–21):1092–5 (Pol)
[The history of the development of sanitary and epidemiologic services in the Ivano-Frankovsk district] Kiriiak AP, et al. Gig Sanit 1989 Sep;(9):32–4 (Rus)
[The experience of World War II and the organization of epidemic control protection for a restricted contingent of Soviet troops in the Republic of Afghanistan] Perepelkin VS, et al. Voen Med Zh 1990 May;(5):73–7 (Rus)

INSTRUMENTATION

[The disinfection apparatus DA-4] Smantser BK, et al. Med Tekh 1989 Sep-Oct;(5):53–4 (Eng. Abstr.) (Rus)
[The cold chain: its role and significance in fighting infections controllable by specific prophylactic agents] Litvinov SK, et al. Zh Mikrobiol Epidemiol Immunobiol 1989 Nov;(11):88–95 (33 ref.) (Rus)

LEGISLATION & JURISPRUDENCE

Infectious disease control. Galbraith NS. BMJ 1990 Jun 9;300(6738):1477–8 (4 ref.)
Disposal of infectious waste. Colo Med 1989 Dec;86(18):386–7
AIDS and women in the sex industry—legal approaches to public health. Neave M. Community Health Stud 1989;13(4):423–30
The legal response to AIDS in Australia. Tahmindjis P. Community Health Stud 1989;13(4):410–22
Arkansas physician in national spotlight regarding AIDS epidemic. J Arkansas Med Soc 1990 Jul;87(2):92–3
Legal rights and communicable disease: AIDS, the police power, and individual liberty. Parmet WE. J Health Polit Policy Law 1989 Winter;14(4):741–71
Legal implications of OSHA and CDC regulations. Kaminski RA, et al. J Prosthet Dent 1990 Jun;63(6):707–12 (21 ref.)
Mandatory reporting of infectious diseases by clinicians. Chorba TL, et al. JAMA 1989 Dec 1;262(21):3018–26
The AIDS litigation project. A national review of court and human rights commission decisions, Part II: Discrimination. Gostin LO. JAMA 1990 Apr 18;263(15):2086–93 (201 ref.)
Infectious waste disposal. The rules just got tighter. Feldman MK. Minn Med 1989 Sep;72(9):510–5
Mandatory reporting of infectious diseases by clinicians. Chorba TL, et al. MMWR 1990 Jun 22;39 RR 9:1–17
Legal and ethical matters. Palmer K. Practitioner 1989 Apr 8;233(1466):500–1
Contact tracing of AIDS, HIV-infected persons approved [news] Tex Med 1990 Jul;86(7):39
[The federal health office on viral hepatitis: incidence reporting responsibility and preventive vaccination] Moll H. Monatsschr Kinderheilkd 1989 Sep;137(9):623 (Ger)
[Epidemiologic responsibilities of the public health service] Müller W, et al. Off Gesundheitswes 1989 Aug-Sep;51(8–9):454–60 (Eng. Abstr.) (Ger)
[Refuse disposal at the hospital] Knoll KH. Z Gesamte Hyg 1990 Feb;36(2):104–5 (Eng. Abstr.) (Ger)
[Wild domestic pigeons—a public health problem of increasing significance in East Germany] Schuster W, et al. Z Gesamte Hyg 1989 Sep;35(9):514–8 (42 ref.) (Eng. Abstr.) (Ger)
[Food-related diseases. Registration within the existing system of control of infectious diseases in Poland] Przybylska A. Przegl Epidemiol 1989;43(2):172–6 (Eng. Abstr.) (Pol)
[Repeal compulsory care ordered by the law for protection against communicable diseases. A threat against legal security] Stiernstedt G. Lakartidningen 1990 Jul 25;87(30–31):2405–6 (Swe)

METHODS

Childhood immunizations. U.S. Preventive Services Task Force. Am Fam Physician 1989 Oct;40(4):115–8
Infection control in public health: a new perspective. Hayden DC. Am J Infect Control 1990 Feb;18(1):47–9
Implementing and evaluating a system of generic infection precautions: body substance isolation. Lynch P, et al. Am J Infect Control 1990 Feb;18(1):1–12
Infectious disease control in a long-term refugee camp: the role of epidemiologic surveillance and investigation. Elias CJ, et al. Am J Public Health 1990 Jul;80(7):824–8
Tuberculosis in developing countries: burden, intervention and cost. Murray CJ, et al. Bull Int Union Tuberc Lung Dis 1990 Mar;65(1):6–24 (71 ref.)
Plan to eliminate indigenous transmission of measles in the English-speaking Caribbean countries. Bull Pan Am Health Organ 1990;24(2):240–6
Oral immunization of foxes against rabies: practical experiences of a field trial in the Federal Republic of Germany. Wilhelm U, et al. Bull World Health Organ 1990;68(1):87–92
Effectiveness of BCG vaccination against tuberculous meningitis: a case-control study in São Paulo, Brazil. Wünsch Filho V, et al. Bull World Health Organ 1990;68(1):69–74
Statement on vaccination of children with inadequate immunization records. Can Med Assoc J 1990 Aug 15;143(4):291–2
The use of mail reminders in STD contact tracing in Ibadan, Nigeria. Asuzu MC, et al. East Afr Med J 1990 Feb;67(2):75–8
Mandatory testing [letter] Thorburn KM. Hawaii Med J 1990 Jul;49(7):229–30, 266–7
Implementation of universal immunization programme in two districts. Kapil U, et al. Indian Pediatr 1989 Aug;26(8):817–20
Surveillance for quality assessment: I. Surveillance in infection control success reviewed. Credé W, et al. Infect Control Hosp Epidemiol 1989 Oct;10(10):470–4 (28 ref.)
Brief report: a scheme to review infection control guidelines for the purpose of implementation in the hospital. Seto WH, et al. Infect Control Hosp Epidemiol 1990 May;11(5):255–7
Problems of global control of tuberculosis. Glittenberg JE. J Prof Nurs 1990 Mar-Apr;6(2):73, 129
Control of foodborne and waterborne diseases: position paper for Scotland. Forbes GI. J R Soc Health 1990 Apr;110(2):70–4 (40 ref.)
Inoculation practices of infants in Southall, Middlesex. Qureshi B, et al. J R Soc Health 1989 Aug;109(4):115–7
CDC ponders new HIV guidelines [news] Goldsmith MF. JAMA 1990 Sep 5;264(9):1079
Partner notification for HIV in Sweden [letter] Giesecke J, et al. Lancet 1990 Aug 25;336(8713):508
Communication of notifiable diseases [letter; comment] Rubin GL, et al. Med J Aust 1989 Sep 18;151(6):358 Comment on: Med J Aust 1989 Jun 19;150(12):723–4.
Immunization: injection/protection. N C Med J 1990 Jan;51(1):31–4
MMR vaccine—one year on. Walker D. Practitioner 1990 May 22;234(1489):550–2
Schistosomiasis control in Saudi Arabia with special reference to the period 1983–1988. al-Madani AA. Public Health 1990 Jul;104(4):261–6
Contact tracing for human immunodeficiency virus (HIV) infection. Ramstedt K, et al. Sex Transm Dis 1990 Jan-Mar;17(1):37–41
The continuity of vaccination programmes: reflections and a case from Gujarat, India. Streefland PH. Soc Sci Med 1989;29(9):1091–8
Prenatal laboratory screening. Rathbun ED, et al. Tex Med 1990 Mar;86(3):52–7 (54 ref.)
Ebola virus. Wkly Epidemiol Rec 1990 Feb 16;65(7):45–7 (Eng, Fre)
Expanded programme on immunization. Global Advisory Group. Part I. Wkly Epidemiol Rec 1990 Jan 12;65(2):5–11 (Eng, Fre)
Dracunculiasis. Wkly Epidemiol Rec 1990 May 18;65(20):149–51 (Eng, Fre)
Diarrhoeal diseases control programme. Wkly Epidemiol Rec 1990 May 11;65(19):143–6 (Eng, Fre)
Efficiency of leprosy control programmes [letter] Dagnew MB. World Health Forum 1989;10(3–4):433–4
[Infectious disease control; even today (still) a challenge (published erratum appears in Ned Tijdschr Geneeskd 1989 Nov 25;133(47):2368)] Huisman J. Ned Tijdschr Geneeskd 1989 Nov 11;133(45):2216–20 (24 ref.) (Dut)
[Prevention of malaria in travellers and expatriates] Bourgeade A, et al. Med Trop (Mars) 1990 Jan-Mar;50(1):125–31 (Eng. Abstr.) (Fre)
[Strategies for prevention of human malaria. Some proposals for central Africa] Louis JP, et al. Med Trop (Mars) 1990 Jan-Mar;50(1):133–6 (Eng. Abstr.) (Fre)
[Importation of important infectious diseases and consequences for preventive immunization before foreign travel] Steffen R. Internist (Berl) 1990 Jun;31(6):373–7 (24 ref.) (Ger)
[Implementation of preventive measures recommended by the federal public health office and acceptance of advice by managers of commercial solaria—studies by the public health office of the Ammerland district] Dahmen HG. Off Gesundheitswes 1990 Jun;52(6):282–6 (Eng. Abstr.) (Ger)
[Performing surface and room disinfection in the hospital] Rehork B, et al. Off Gesundheitswes 1990 Jan;52(1):36–45 (Eng. Abstr.) (Ger)
[Preventive health care in travel, especially vaccinations] Volkmer KJ. Off Gesundheitswes 1989 Aug-Sep;51(8–9):442–4 (Eng. Abstr.) (Ger)
[Which preventive vaccinations are recommended for foreign travel?] Höfler W. Verh Dtsch Ges Inn Med 1989;95:616–21 (Ger)
[The significance of disinfection in control of veterinary communicable diseases] Jovtschev E. Z Gesamte Hyg 1990 Feb;36(2):106 (Eng. Abstr.) (Ger)
[Public health aspects of the hands] Rotter M. Z Gesamte Hyg 1990 Feb;36(2):77–9 (Eng. Abstr.) (Ger)
[Work experience under optimal conditions in the structure of a district sanitary-epidemiologic station in Minsk] Chelnov VM, et al. Gig Sanit 1989 Dec;(12):34–6 (Rus)
[Extended use of sodium hypochlorite as a disinfectant] Vinogradova LI, et al. Gig Sanit 1989 Sep;(9):66–8 (Rus)

STATISTICS & NUMERICAL DATA

Infection control practitioners and committees in skilled nursing facilities in Connecticut. Pearson DA, et al. Am J Infect Control 1990 Jun;18(3):167–75
New infection control strategies in acute care. Birnbaum D, et al. Dimens Health Serv 1990 May;67(4):26–9
Protective measures in dental treatment. Cade JE, et al. J Am Coll Dent 1990 Spring;57(1):7–11
Do dentists have sufficient information about their patients to control infection? Hazelkorn HM. J Dent Educ 1990 Feb;54(2):149–52
Towards better immunisation rates [editorial] Peckham C, et al. Practitioner 1989 Oct 22;233(1477):1343–4

TRENDS

The infection control practitioner: an action plan for the 1990s. McGowan JE Jr. Am J Infect Control 1990 Feb;18(1):29–39
Recommendations for future Arctic health research. Middaugh JP. Arctic Med Res 1988;47 Suppl 1:27–30
Changing trends in infection control and hospital epidemiology. Decker MD, et al. Infect Dis Clin North Am 1989 Dec;3(4):671–82 (13 ref.)
[The need for preventive vaccination of children and adolescents in highly civilized industrial countries] Scheier R. Off Gesundheitswes 1989 Aug-Sep;51(8–9):483–7 (Eng. Abstr.) (Ger)
[Comments on the contribution by H. M. Bader (Off. Gesundh. Wes. 51 (1989) 352): "Degree of vaccination of children and adolescents in Schleswig-Holstein"] Scholz D. Off Gesundheitswes 1989 Oct;51(10):635 (Ger)
[The expanded WHO vaccination program and the vaccination strategy in East Germany] Dittmann S, et al. Z Gesamte Hyg 1990 Apr;36(4):186–91 (Eng. Abstr.) (Ger)

COMMUNICABLE DISEASES

More on legal implications of infectious disease [letter] Michaud EC. Am J Orthod Dentofacial Orthop 1989 Nov;96(5):22A
Whither the specialist in infection? [letter; comment] Williams JD. J Infect 1990 Jan;20(1):89–90 Comment on: J Infect 1989 Jan;18(1):25–7.
The Infectious Diseases Society of America and the elimination of tuberculosis [letter] Ruben FL. J Infect Dis 1990 Oct;162(4):993–4
Health aspects of resettlement in Ethiopia. Kloos H. Soc Sci Med 1990;30(6):643–56 (123 ref.)
[Difficulties in the diagnosis of brain abscess at an infectious disease hospital] Lisukova TE, et al. Ter Arkh 1989;61(11):28–31 (Rus)
[Ways of further improving the organization of medical aid to infectious patients] Ivanov KS. Voen Med Zh 1989 Jun;(6):3–8 (Rus)

BLOOD

Significance of a high erythrocyte sedimentation rate in

general practice. Kirkeby OJ, et al. **Br J Clin Pract** 1989 Jul;43(7):252–4

Should autologous blood that tests positive for infectious diseases be used or discarded? A decision analysis approach. Dzik WH, et al. **Transfusion** 1989 Oct;29(8):743–5

CLASSIFICATION

[The classification of infectious diseases in the light of new data on the subject of epidemiology] Kovaleva EP. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Oct;(10):40–3 **(Rus)**

[Ecologico–epidemiologic principles of the classification of human infectious diseases] Shliakhov EN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):109–14 (24 ref.) **(Rus)**

COMPLICATIONS

Infections with FK 506 immunosuppression: preliminary results with primary therapy. Alessiani M, et al. **Transplant Proc** 1990 Feb;22(1):44–6

[The multiple–organ failure syndrome in intra–abdominal infections] Minchev M. **Khirurgiia (Sofiia)** 1990;43(1):20–4 (Eng. Abstr.) **(Bul)**

DIAGNOSIS

Immunoserology of infectious diseases. James K. **Clin Microbiol Rev** 1990 Apr;3(2):132–52 (100 ref.)

Immunoassays for diagnosis of infectious diseases. Yolken RH. **Methods Enzymol** 1990;184:529–37

The returning traveller. Holden J, et al. **Practitioner** 1990 Jun 8;234(1490):571–4

[The diagnosis and forensic psychiatric expertise in infectious cerebral arachnoiditis] Lukacher GIa, et al. **Sud Med Ekspert** 1990 Apr–Jun;33(2):40–2 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Antibiotic therapy of life–threatening infectious diseases in the emergency department. Lauter CB. **Ann Emerg Med** 1989 Dec;18(12):1339–43

Infectious diseases. Douglas RG Jr. **JAMA** 1990 May 16; 263(19):2648–9

From watchful waiting to antibiotics. Kampmeier RH. **JAMA** 1989 Nov 3;262(17):2433–6

[Clinical and experimental study of the effect of compound five–shen herbal drink in the treatment of acute febrile diseases with damage to the yin and reddened tongue syndrome] Ma BS, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):583–6, 579 (Eng. Abstr.) **(Chi)**

EPIDEMIOLOGY

Decreased absence due to infectious diseases in children at two day care centres over an eight–year interval. Söderström M, et al. **Acta Paediatr Scand** 1990 Apr; 79(4):454–60

Infectious conditions in day care: there is more than enteritis and rhinitis [letter] Fosarelli P. **Am J Dis Child** 1990 Sep; 144(9):955–6

Re: "Use of Modeling in Infectious Disease Epidemiology" [letter; comment] Klar N. **Am J Epidemiol** 1990 May; 131(5):942–3 Comment on: Am J Epidemiol 1988 Nov;128(5):949–61.

Infections in child day care centers as they relate to internal medicine. Reves RR, et al. **Annu Rev Med** 1990;41:383–91 (35 ref.)

National surveillance of dialysis–associated diseases in the United States, 1988. Alter MJ, et al. **ASAIO Trans** 1990 Apr–Jun;36(2):107–18

Epidemiological transition in Asian countries and related health policy issues. Phoon WO. **Asia Pac J Public Health** 1989;3(2):139–44

Hospital admissions for infections of aboriginal and non–aboriginal infants and children in Western Australia, 1981–86. Gracey M, et al. **Aust Paediatr J** 1989 Aug; 25(4):230–5

The Lexington addicts, 1971–1972: demographic characteristics, drug use patterns, and selected infectious disease experience. Lange WR, et al. **Int J Addict** 1989 Jul;24(7):609–26

On the course of epidemics of some infectious diseases. En'ko PD. **Int J Epidemiol** 1989 Dec;18(4):749–55

Epidemiology in search of infectious diseases: methods in outbreak investigation. Palmer SR. **J Epidemiol Community Health** 1989 Dec;43(4):311–4 (26 ref.)

Communicable disease report July to September 1989. The PHLS Communicable Disease Surveillance Centre. **J Public Health Med** 1990 Feb;12(1):81–6

Communication of notifiable diseases [letter; comment] Rubin GL, et al. **Med J Aust** 1989 Sep 18;151(6):358 Comment on: Med J Aust 1989 Jun 19;150(12):723–4.

Summary of notifiable diseases, United States, 1988. **MMWR** 1989 Oct 6;37(54):1–57

Foodborne disease outbreaks, 5–year summary, 1983–1987. Bean NH, et al. **MMWR CDC Surveill Summ** 1990 Mar; 39(1):15–57

Waterborne disease outbreaks, 1986–1988. Levine WC, et al. **MMWR CDC Surveill Summ** 1990 Mar;39(1):1–13

A prospective study of infectious morbidity and antibiotic consumption among children in different forms of municipal day–care. Petersson C, et al. **Scand J Infect Dis** 1989;21(4):449–57

Endemic disease in host populations with fully specified demography. John AM. **Theor Popul Biol** 1990 Jun; 37(3):455–71

Estimating the initial relative infection rate for a stochastic epidemic model. Yip P. **Theor Popul Biol** 1989 Oct; 36(2):202–13

Communicable diseases in 1989. **Wkly Epidemiol Rec** 1990 Jun 15;65(24):184–5 **(Eng, Fre)**

Epidemiological surveillance. Sentinella notification system new topics. **Wkly Epidemiol Rec** 1990 Jul 27;65(30):236 **(Eng, Fre)**

[Reported patients with infectious diseases in 1988] Bijkerk H, et al. **Ned Tijdschr Geneeskd** 1989 Aug 12; 133(32):1598–602 (Eng. Abstr.) **(Dut)**

[Reported patients with infectious diseases in 1989] Postema CA. **Ned Tijdschr Geneeskd** 1990 Jul 28;134(30):1450–4 (Eng. Abstr.) **(Dut)**

[Environment and occurrence of epidemics] Mayr A. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):1–12 (16 ref.) (Eng. Abstr.) **(Ger)**

[Infective diseases in the urban districts of Cagliari in 1980–1985] Contu P, et al. **Ann Ig** 1989 May–Aug; 1(3–4):539–50 (Eng. Abstr.) **(Ita)**

[Utilization of beds for monitoring infectious diseases in a hospital department not adapted for treating patients with infectious diseases] Mazurowska–Magdzik W, et al. **Przegl Epidemiol** 1989;43(4):438–42 (Eng. Abstr.) **(Pol)**

[Morbidity from zoonotic and natural–focus infections and the problems of their prevention in the USSR] Kondrusev AI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec; (12):106–8 **(Rus)**

[Quantitative research on the cyclic fluctuations of the epidemic process in a number of infectious diseases in Bulgaria] Ranchov GK. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):59–62 (Eng. Abstr.) **(Rus)**

[The use of different statistical methods in epidemiological analysis to assess the seasonality and territorial spread of infectious diseases] Shakhanina IL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):43–7 (Eng. Abstr.) **(Rus)**

[Conducting epidemiologic surveillance of infectious diseases in Great Britain] Sokhin AA. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):49–53 **(Rus)**

[Estimate of the incidence rates of chronic parasitosis and infections based on the prevalence: Chagas disease in Latin America] Hayes RJ, et al. **Bol Of Sanit Panam** 1990 Apr; 108(4):308–16 (Eng. Abstr.) **(Spa)**

[Ecologic dynamics of infectious diseases. I. Seasonal variations] Canals M, et al. **Rev Med Chil** 1989 Jan; 117(1):87–94 (Eng. Abstr.) **(Spa)**

[Ecologic dynamics of infectious diseases. II. Periodic recurrence of epidemics] Canals M, et al. **Rev Med Chil** 1989 Jan;117(1):95–100 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

The reporting of race and ethnicity in the National Notifiable Diseases Surveillance System [see comments] Buehler JW, et al. **Public Health Rep** 1989 Sep–Oct;104(5):457–65 Comment in: Public Health Rep 1990 Jan–Feb;105(1):102–3.

ETIOLOGY

Source of health problems in childhood: biological aspects. Behrman RE. **Bull N Y Acad Med** 1989 Mar;65(3):278–84 (14 ref.)

Other infectious complications in intravenous drug users. The compromised host. Shepherd SM, et al. **Emerg Med Clin North Am** 1990 Aug;8(3):683–92 (42 ref.)

Occupational risks for child–care providers and teachers [editorial; comment] Pickering LK, et al. JAMA 1990 Apr 18;263(15):2096–7 Comment on: JAMA 1990 Apr 18;263(15):2061–5.

Infectious diseases of geriatric inmates. Glaser JB, et al. **Rev Infect Dis** 1990 Jul–Aug;12(4):683–92 (118 ref.)

[Kidney involvement in infectious diseases] Michalk D. **Monatsschr Kinderheilkd** 1989 Oct;137(10):632–7 (26 ref.) (Eng. Abstr.) **(Ger)**

[Does leisure time cause illness? Leisure time behavior and its sequelae] Opaschowski HW. **Off Gesundheitswes** 1989 Aug–Sep;51(8–9):445–50 (Eng. Abstr.) **(Ger)**

[Infective complications of the central nervous system (CNS) in addicts to parenterally administered drugs] Garcés JM. **Arch Neurobiol (Madr)** 1989;52 Suppl 1:149–54 (30 ref.) (Eng. Abstr.) **(Spa)**

[Lupus and immunodepression (editorial)] Bosch Gil JA. **Med Clin (Barc)** 1990 Apr 28;94(16):619–21 **(Spa)**

GENETICS

Metabolic polymorphisms and the role of infectious diseases in human evolution. 1960 [classical article] Motulsky AG. **Hum Biol** 1989 Oct–Dec;61(5–6):835–69; discussion 870–7

HISTORY

Health and settlement 1788–95: life and death in the colony's early years. Watt J. **Aust N Z J Surg** 1989 Nov; 59(11):845–54

Health and settlement 1788–95: surgeons and the environment. Watt J. **Aust N Z J Surg** 1989 Dec; 59(12):923–31

Remembrances [letter] Glick SS. **Md Med J** 1989 Dec; 38(12):1009

Epidemiologic classics. Woodward TE. **Md Med J** 1990 Mar; 39(3):267–71

Infectious diseases and the last 100 years in the American Pediatric Society. Denny FW Jr. **Pediatr Res** 1990 Jun;27(6 Suppl):S49–54

[The history of the development of sanitary and epidemiologic services in the Ivano–Frankovsk district] Kiriiak AP, et al. **Gig Sanit** 1989 Sep;(9):32–4 **(Rus)**

[Georgii Pavlovich Rudnev (1899–1970)] Pokrovskii VI, et al. **Klin Med (Mosk)** 1990 Jan;68(1):148–9 **(Rus)**

[Experience with diagnosis and treatment of infectious diseases in extreme conditions (on the 45th anniversary of victory in World War II)] Ugriumov BL. **Klin Med (Mosk)** 1990 May;68(5):14–9 **(Rus)**

[The 50th anniversary of the theory of natural foci of human diseases] Kucheruk VV. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):3–4 **(Rus)**

[Medico–geographical orientation of the works of Z.P. Solov'ev] Belov SI. **Sov Zdravookhr** 1990;(1):74–7 **(Rus)**

[The contribution of the Research Institute of Microbiology of the Ministry of Defense of the USSR to the development of the problems of infectious immunology] Lebedinskii VA, et al. **Voen Med Zh** 1989 Aug;(8):67–71 **(Rus)**

IMMUNOLOGY

Chemotaxis of mononuclear cells in patients with community acquired pneumonia. Riyami BM, et al. **FEMS Microbiol Immunol** 1989 Apr;1(5):301

Nutrition is an important determinant of immunity in old age. Chandra RK. **Prog Clin Biol Res** 1990;326:321–34 (30 ref.)

The delayed immunization of children of migrant farm workers in South Carolina. Lee CV, et al. **Public Health Rep** 1990 May–Jun;105(3):317–20

MICROBIOLOGY

[The typing of the causative agents of infectious diseases today] Beliakov VD, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Mar;(3):98–103 (50 ref.) **(Rus)**

MORTALITY

Mortality from infectious diseases among New Mexico's American Indians, Hispanic whites, and other whites, 1958–87. Becker TM, et al. **Am J Public Health** 1990 Mar; 80(3):320–3

Siblings of opposite sex as a risk factor for child mortality. Aaby P, et al. **BMJ** 1990 Jul 21;301(6744):143–5

Control of communicable diseases & child survival. Tiwari IC. **Indian J Public Health** 1988 Apr–Jun;32(2):57–60

Pattern of preventable diseases in Afghanistan: suggestions to reduce the morbidity and mortality at IGICH. Choudhry VP, et al. **Indian Pediatr** 1989 Jul;26(7):654–9

Disease regulation of age–structured host populations. Andreasen V. **Theor Popul Biol** 1989 Oct;36(2):214–39

REHABILITATION

Rehabilitation of the infected hand. Mancini LH, et al. **Hand Clin** 1989 Nov;5(4):635–41

THERAPY

Deep space infections. Burkhalter WE. **Hand Clin** 1989 Nov; 5(4):553–9

Immunotherapy for infectious diseases. Pennington JE. **West J Med** 1990 Apr;152(4):401–5

[Hyperbaric oxygenation in the combined treatment of patients with diabetes mellitus complicated by a suppurative–septic infection] Sinitsyn PD, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):21–3 (Eng. Abstr.) **(Rus)**

[Analysis of hospitalization of an urban population] Medik VA. **Sov Med** 1989;(9):65–8 **(Rus)**

TRANSMISSION

International spread of disease by air travel. Royal L, et al. **Am Fam Physician** 1989 Nov;40(5):129–36 (22 ref.)

Human behavior and the communicable diseases of childhood. Dunn FL. **Am J Public Health** 1990 Feb; 80(2):141–2 (21 ref.)

Models for the spread of universally fatal diseases. Brauer F. **J Math Biol** 1990;28(4):451–62

Parameter estimation in a special reaction–diffusion system modelling man–environment diseases. Kunisch K, et al. **J Math Biol** 1989;27(6):633–65

Evaluation of a sick child day care program: lack of detected increased risk of subsequent infections. MacDonald KL, et al. **Pediatr Infect Dis J** 1990 Jan;9(1):15–20

Risks associated with indoor infectious aerosols. Burge HA. **Toxicol Ind Health** 1990 Mar;6(2):263–74 (44 ref.)

[He who travels far...; various imported diseases] Kager PA. **Ned Tijdschr Geneeskd** 1989 Sep 9;133(36):1771–3 **(Dut)**

[Is the 1st year in day care so bad?] Costa Bou X. **An Esp Pediatr** 1989 Nov;31(5):449–54 (Eng. Abstr.) **(Spa)**

VETERINARY
[Tropical animal diseases] Uilenberg G.
Tijdschr Diergeneeskd 1989 Jul 15;114(14):800-4 (Dut)

COMMUNICATION

see related
LITERATURE
English proficiency in multiple-choice questions [letter] Dissanayake AS, et al. Acad Med 1990 Feb;65(2):101
Simultaneous depression. Holte A, et al.
Acta Psychiatr Scand 1990 May;81(5):463-7
Confirmatory and disconfirmatory feedback in families of schizophrenics, pathological controls and normals. Holte A, et al. Acta Psychiatr Scand 1990 May;81(5):477-82
Parent-child sexual discussion: perceived communicator style and subsequent behavior. Mueller KE, et al.
Adolescence 1990 Summer;25(98):469-82
Perceived credibility of channels and sources of AIDS information among Hispanics. Marin G, et al.
AIDS Educ Prev 1990 Summer;2(2):154-61
Targeting AIDS through information, education, and communications programs: implications for Africa and the Caribbean. Ward WB. AIDS Educ Prev 1989 Summer; 1(2):154-62
The radiologic hedge [letter] Hall FM, et al.
AJR Am J Roentgenol 1990 Apr;154(4):903-4
Narrative abilities in hearing-impaired children: propositions and cohesion. Griffith PL, et al. Am Ann Deaf 1990 Spring; 135(1):14-21
Can SEE-2 children understand ASL-using adults? Luetke-Stahlman B. Am Ann Deaf 1990 Spring;135(1):7-8
The crisis in communication—help from nutrition? [editorial] Davidson CS. Am J Clin Nutr 1966 Feb;18(2):77-8
Community psychology into the 1990s: capitalizing opportunity and promoting innovation. Linney JA.
Am J Community Psychol 1990 Feb;18(1):1-17
And the children shall teach us ... [letter] Asnes RS.
Am J Dis Child 1990 Aug;144(8):849
How to stay in touch with all your staff. Katz R.
Am J Nurs 1990 May;90(5):28A, 28F
Straight talk. Plowman FT. Am J Nurs 1990 Aug;90(8):40-1
My trips over the language barrier. Wilson DA.
Am J Nurs 1989 Dec;89(12):1718
Networking: a successful linkage for community occupational therapists. Hurff JM, et al. Am J Occup Ther 1990 May; 44(5):424-30
Precautions to be taken during press interviews [letter] Repicci AJ. Am J Orthod 1974 Nov;66(5):576-7
Participatory matching [letter] Friedman EH.
Am J Psychiatry 1989 Dec;146(12):1650
Effect of distraction on communication failures in schizophrenic patients. Hotchkiss AP, et al.
Am J Psychiatry 1990 Apr;147(4):513-5
Spanish version of the Nottingham Health Profile: translation and preliminary validity. Alonso J, et al.
Am J Public Health 1990 Jun;80(6):704-8
Are patients talking to their physicians about AIDS? Gerbert B, et al. Am J Public Health 1990 Apr;80(4):467-8
Routine communication in sexually transmitted disease clinics: an observational study. Roter DL, et al.
Am J Public Health 1990 May;80(5):605-6
Facilitation of communication through uniform requirements [editorial] Sly RM. Ann Allergy 1990 Jan;64(1):1-2
Patients and their families shouldn't need 'translators' in their own country [editorial] Palmer PN. AORN J 1990 Jun; 51(6):1481-2
Transcultural nursing. Overcoming obstacles to effective communication. Rothenburger RL. AORN J 1990 May; 51(5):1349-54, 1357-63
Transferring patients from the OR. What the postanesthesia room nurse needs to know. Welter ER, et al. AORN J 1989 Dec;50(6):1248-50, 1252
How do parents of babies interpret qualitative expressions of probability? Shaw NJ, et al. Arch Dis Child 1990 May; 65(5):520-3
Effectiveness of the call-out system for a London Coronary Ambulance service. McLauchlan CA, et al.
Arch Emerg Med 1989 Sep;6(3):193-8
Life problems of deaf people. Prevention and treatment. Switzer ME, et al. Arch Environ Health 1967 Aug; 15(2):249-56
Communication of affect in family therapy. Berman G.
Arch Gen Psychiatry 1967 Aug;17(2):154-8
Experiment with abnormal families. Testing done in a restricted communication setting. Haley J.
Arch Gen Psychiatry 1967 Jul;17(1):53-63
Health communication problems in Canadian Inuit communities. O'Neil JD, et al. Arctic Med Res 1988;47 Suppl 1:374-8
A Cree healer attempts to improve the competitive position of native medicine. Young DE, et al. Arctic Med Res 1988; 47 Suppl 1:313-6
In defence of casualty departments [letter] Forster P.
Aust Fam Physician 1990 Aug;19(8):1301-2
On screens and screening [letter] Ravet J.
Aust Fam Physician 1989 Nov;18(11):1452
What the aircrew automated escape system and aircrew life support system equipment designers need from the investigating medical officer and pathologist. Guill FC.
Aviat Space Environ Med 1989 Oct;60(10 Pt 2):B1-10
The influence of alcohol and aging on radio communication during flight. Morrow D, et al.
Aviat Space Environ Med 1990 Jan;61(1):12-20
Hearing loss and radiotelephony intelligibility in civilian airline pilots. van Deelen GW, et al.
Aviat Space Environ Med 1990 Jan;61(1):52-5
Communicating with Asian patients [letter; comment] BMJ 1989 Nov 11;299(6709):1220 Comment on: BMJ 1989 Oct 7;299(6704):905-6.
Not the way to settle disputes. Dixon B. BMJ 1990 Jun 30; 300(6741):1715-6
Communicating with Asian patients [see comments] Stevens KA, et al. BMJ 1989 Oct 7;299(6704):905-6 Comment in: BMJ 1989 Nov 11;299(6709):1220.
Press misrepresentation [letter] Br Dent J 1989 Nov 11; 167(9):302
'Communication with deaf people in the surgery setting' [letter; comment] Crabb JJ. Br Dent J 1990 Feb 10; 168(3):93 Comment on: Br Dent J 1989 Nov 25;167(10):350-2.
Communication with deaf people in the surgery setting [see comments] Hector S, et al. Br Dent J 1989 Nov 25; 167(10):350-2 Comment in: Br Dent J 1990 Feb 10;168(3):93.
Family cohesion, expressiveness and conflict in alcoholic families. Barry KL, et al. Br J Addict 1990 Jan;85(1):81-7
Does communication between investigators improve the conduct of the multicentre study? Marley JE, et al.
Br J Clin Pract 1989 May;43(5):158-60
What colour are the alligators? A critical look at methods used to assess communication skills in adults with learning difficulties. Dormandy K, et al. Br J Disord Commun 1989 Dec;24(3):265-79
A new look at language and communication in autism. Frith U. Br J Disord Commun 1989 Aug;24(2):123-50 (107 ref.)
Changing approaches to communication training with autistic children. Howlin P. Br J Disord Commun 1989 Aug; 24(2):151-68 (120 ref.)
Can communication skills be taught? Maguire P.
Br J Hosp Med 1990 Mar;43(3):215-6
How to minimize litigation [editorial] Orr CJ.
Br J Hosp Med 1989 Dec;42(6):439
Inadequacies in emergency admission communications [letter; comment] Rothwell P. Br J Hosp Med 1989 Oct;42(4):340 Comment on: Br J Hosp Med 1989 Jul;42(1):59-61.
Family management programmes for schizophrenic patients. Prevention of relapse and modification of familial communication patterns. Hahlweg K, et al.
Br J Psychiatry Suppl 1989 Jul;(5):112-6
Family discourse: physiological correlates of different degrees of stress. Käsermann ML, et al.
Br J Psychiatry Suppl 1989 Jul;(5):136-43
Patient-environment relationships in schizophrenia. Information processing, communication deviance, autonomic arousal, and stressful life events. Nuechterlein KH, et al. Br J Psychiatry Suppl 1989 Jul;(5):84-9
Remembering our history: the roots of knowledge. McClure LW. Bull Med Libr Assoc 1990 Jan;78(1):66-8
Jargon [editorial] Pizer IH. Bull Med Libr Assoc 1990 Jul; 78(3):318-9
Health communication in the Caribbean.
Bull Pan Am Health Organ 1989;23(3):347-9
From puppet shows to teleconferencing: communicating health in the Americas. Bull Pan Am Health Organ 1989; 23(3):343-6
"The person with cancer" [letter; comment] Goldberg AT. CA 1989 Nov-Dec;39(6):398-9 Comment on: CA 1989 Jul-Aug;39(4):197-200.
Facial and verbal congruency: effects on perceived verbal and emotional coaching feedback [see comments] Crocker PR. Can J Sport Sci 1990 Mar;15(1):17-22 Comment in: Can J Sport Sci 1990 Mar;15(1):3-4.
Verbal and non-verbal feedback from coaches [editorial; comment] Leith LM. Can J Sport Sci 1990 Mar;15(1):3-4 Comment on: Can J Sport Sci 1990 Mar;15(1):17-22.
"Disinformation" from pharmaceutical company representatives [letter] Gordon M. Can Med Assoc J 1990 Jun 1;142(11):1177-8
Continuity of care. Development and implementation of a shared patient data base. Case CL, et al. Cancer Nurs 1989 Dec;12(6):332-8
Communicating an evolutionary diagnosis of disability to parents. Cottrell DJ, et al. Child Care Health Dev 1990 Jul-Aug;16(4):211-8
The development of message evaluation skills in young children. Beal CR, et al. Child Dev 1990 Jun;61(3):705-12
Achieving parent-child coordination through convention: fixed- and variable-sequence conventions. Duncan S Jr, et al. Child Dev 1990 Jun;61(3):742-53
Intonation and communicative intent in mothers' speech to infants: is the melody the message? Fernald A.
Child Dev 1989 Dec;60(6):1497-510
Practical approaches to scientific presentation. Lin YC.
Chin J Physiol 1989;32(2):71-80
Improving the quality of community health surveys and community health promotion campaigns by feedback from the community: experience from the Wallsend community and health project. Clarke RM, et al.
Community Health Stud 1990;14(1):27-34
Keep the nurse in nursing informatics! A comment on 'guidelines for reporting innovations in computer-based information systems for nursing'. Brennan PF.
Comput Nurs 1989 Sep-Oct;7(5):239-40
Factors influencing the development and use of interactive video in nursing education. A Delphi study. Rizzolo MA.
Comput Nurs 1990 Jul-Aug;8(4):151-9
Innovation. The promise and the perils for nursing and information technology. Romano CA. Comput Nurs 1990 May-Jun;8(3):99-104
Guidelines for reporting innovations in computer-based information systems for nursing. Zielstorff RD, et al.
Comput Nurs 1989 Sep-Oct;7(5):203-8
Using FACS vs. communication scores to measure spontaneous facial expression of emotion in brain-damaged patients: a reply to Mammucari et al. (1988). Buck R.
Cortex 1990 Jun;26(2):275-80; discussion 281-9
Means for verbal communication in endotracheally intubated patients [letter] White KS, et al. Crit Care Med 1990 Jun; 18(6):685
Impact of a drug bulletin on the knowledge, perception of drug utility, and prescribing behavior of physicians. Denig P, et al. DICP 1990 Jan;24(1):87-93
Communication of verbal information by community pharmacists. Laurier C, et al. DICP 1989 Nov;23(11):862-8
Triazolam—an "abused drug" by the lay press? Schneider PJ, et al. DICP 1990 Apr;24(4):389-92 (30 ref.)
Relative effectiveness of three repair strategies on the visual-identification of misperceived words. Gagné JP, et al. Ear Hear 1989 Dec;10(6):368-74
A critical reevaluation of the Quantified Denver Scale of Communication Function. Tuley MR, et al. Ear Hear 1990 Feb;11(1):56-61
Poor English ... [editorial] Kulbertus HE. Eur Heart J 1990 Jun;11(6):482-3
Patient-centredness in the consultation. 2: Does it really make a difference? Henbest RJ, et al. Fam Pract 1990 Mar; 7(1):28-33
Patient-centredness in the consultation. 1: A method for measurement. Henbest RJ, et al. Fam Pract 1989 Dec; 6(4):249-53
The impact of discussion of non-medical problems in the physician's office. Martin FJ, et al. Fam Pract 1989 Dec; 6(4):254-8
Can communication deviance be measured in a family problem-solving interaction? Velligan DI, et al.
Fam Process 1990 Jun;29(2):213-26
Information processing, cognition, attention, and communication following closed-head injury. Adamovich BB. Folia Phoniatr (Basel) 1990;42(1):11-23
Interfacing biotech in industry and universities. Smith DA.
Genome 1989;31(2):1123-4
The next step. Hagan WB, et al.
Geriatr Nurs (New York) 1989 Sep-Oct;10(5):241
What do you mean? Jackson MM.
Geriatr Nurs (New York) 1989 Sep-Oct;10(5):244-5
Milestoning: evoking memories for resocialization through group reminiscence. Lowenthal RI, et al. Gerontologist 1990 Apr;30(2):269-72 (19 ref.)
The second opinion [editorial] Reppun JI. Hawaii Med J 1990 Jan;49(1):3
Dissemination of research findings: who wants what? Russell E, et al. Health Bull (Edinb) 1990 Mar;48(2):91-6
Patient-oriented interventions to improve communication in a medical office visit. Thompson SC, et al.
Health Psychol 1990;9(4):390-404
Health education and promotion: communication and youth [editorial] Yarham C. Hygie 1990 Jun;9(2):3 (Eng, Fre)
An immunization: a least adopted practice. Kaur G, et al.
Indian J Public Health 1988 Oct-Dec;32(4):199-204
Improving communications can prevent malpractice.
Indiana Med 1990 Apr;83(4):272-3
Duplicate publication of a manuscript [editorial] Wenzel RP, et al. Infect Control Hosp Epidemiol 1990 Jul;11(7):341-2
Transfer of innovation for advancement in dentistry: a case study on pit and fissure sealants' use in Japan. Nakata M, et al. Int Dent J 1989 Dec;39(4):263-8
Communicating with each other. Silversin J. Int Dent J 1989 Dec;39(4):258-62
A critical theory of medical discourse: how patients and health professionals deal with social problems. Waitzkin H, et al. Int J Health Serv 1989;19(4):577-97
A severe form of breakdown in communication in the psychoanalysis of an ill adolescent. Kennedy R.
Int J Psychoanal 1990;71 (Pt 2):309-19
Mentally retarded adolescents: evaluation of communication strategies in different settings. Bolognini M, et al.
Int J Rehabil Res 1988;11(4):369-78
Parental communication and psychological distress in children of Holocaust survivors: a comparison between the U.S. and Israel. Okner DF, et al. Int J Soc Psychiatry 1989 Autumn;35(3):265-73
Technology transfer and cost constraints in medicine. Hendee WR. Invest Radiol 1990 Jun;25(6):745-7
Communication skills training in undergraduate medicine. Doherty E, et al. Ir Med J 1990 Jun;83(2):54-6
Parental communication deviance and schizophrenia: a cross-cultural comparison of Mexican- and Anglo-Americans. Doane JA, et al. J Abnorm Psychol 1989 Nov;98(4):487-90
Targets of communication during adolescence. Hortaçsu N. J Adolesc 1989 Sep;12(3):253-63
A systematic comparison of feedback and staff discussion in changing the ward atmosphere. James I, et al.
J Adv Nurs 1990 Mar;15(3):329-36
Debate: a strategy for increasing interaction in audio

teleconferencing. Wuest J. J Adv Nurs 1989 Oct; 14(10):847–52

Parent–child effects on performance, thinking, and communication in families of normal and schizophrenic sons. Fort DC. J Am Acad Psychoanal 1990 Spring; 18(1):73–98

Listening with the big ear: a Laingian approach to psychotic families. Frank JA. J Am Acad Psychoanal 1990 Spring; 18(1):131–44

Easy questions, difficult answers [editorial] Stephens GG. J Am Board Fam Pract 1990 Jul–Sep;3(3):224–6

Information transfer in dentistry: opportunities and concerns. Eighth Annual Dunning Memorial Symposium. April 29, 1988, New York. Proceedings. J Am Coll Dent 1989 Fall; 56(3):21–54

Information transfer to the public: print media. Altman LK. J Am Coll Dent 1989 Fall;56(3):33–7

Responses of the health professions to information: dilemmas and contradictions. Colombotos JL. J Am Coll Dent 1989 Fall;56(3):50–4

Information transfer in dentistry: opportunities and concerns. Trouble right here in River City: can we ignore it? Levy BM. J Am Coll Dent 1989 Fall;56(3):28–32

The role of the ADA in information transfer to the public. McMullen D. J Am Coll Dent 1989 Fall;56(3):41–4

Information transfer in dentistry: opportunities and concerns. Television. Schiller RK. J Am Coll Dent 1989 Fall; 56(3):38–40

Information transfer to the profession: opportunities and concerns. Simonsen RJ. J Am Coll Dent 1989 Fall; 56(3):25–7

Information transfer in dentistry: opportunities and concerns. The role of the professional journal. Wathen WF. J Am Coll Dent 1989 Fall;56(3):23–4

Intercultural communication in assessing dietary habits: Liberia as an example. Jarosz LA. J Am Diet Assoc 1990 Aug;90(8):1094–8

Communicating the concepts of good nutrition in the 1990s. O'Neil C. J Am Diet Assoc 1990 Mar;90(3):373–4

Dissenting opinions regarding telephone communication [letter; comment] J Am Geriatr Soc 1990 Apr;38(4):489–90 Comment on: J Am Geriatr Soc 1989 Mar;37(3):289–90.

Communication between primary physicians and staff of long–term care facilities [letter] Ouslander J, et al. J Am Geriatr Soc 1990 Apr;38(4):490–2

The hazards of multidisciplinary care [letter] Ouslander JG. J Am Geriatr Soc 1990 May;38(5):608

Physicians need to hear deaf patients' needs [letter; comment] Ross H. J Am Osteopath Assoc 1989 Oct;89(10):1241, 1245 Comment on: J Am Osteopath Assoc 1989 Jun;89(6):780–2.

Communication—the key to success. Hubbard ER. J Am Podiatr Med Assoc 1990 Apr;80(4):227

Communication. Hubbard ER. J Am Podiatr Med Assoc 1990 May;80(5):283–4

Abbreviations and other shortcuts in communication [letter; comment] J Am Vet Med Assoc 1990 Apr 15;196(8):1200–1 Comment on: J Am Vet Med Assoc 1990 Feb 15;196(4):570–2.

Answering clients' difficult questions. Antelyes J. J Am Vet Med Assoc 1990 Jul 15;197(2):197–9

Doctor/staff communication: practice bedrock. Antelyes J. J Am Vet Med Assoc 1990 Jun 15;196(12):1938–40

Abbreviations and neologisms in clinical veterinary medical education: does everyone understand what we are saying? [see comments] Jortner BS, et al. J Am Vet Med Assoc 1990 Feb 15;196(4):570–2 Comment in: J Am Vet Med Assoc 1990 Apr 15;196(8):1200–1.

Communication and sensorimotor functioning in children with autism. Abrahamsen EP, et al. J Autism Dev Disord 1990 Mar;20(1):75–85

Functional equivalence of autistic leading and communicative pointing: analysis and treatment. Carr EG, et al. J Autism Dev Disord 1989 Dec;19(4):561–78

The health sciences communicator as faculty developer. Battles JB, et al. J Biocommun 1989;16(3):2–8

The implementation and maintenance of the HeSCA Code of Ethics. Hollway JA. J Biocommun 1990;17(2):22–7

The media and the AIDS crisis. A conference of Oregon journalists. Crawshaw R. J Clin Epidemiol 1990;43(5):523–6

Cruel cacophony, boisterous beeper. Lee RV. J Clin Epidemiol 1990;43(3):311–2

The press does not like us [editorial] Lacsamana RG. J Fla Med Assoc 1989 Dec;76(12):1009

Write, write, write! [letter; comment] LaPorta MA. J Fla Med Assoc 1989 Dec;76(12):1013–4 Comment on: J Fla Med Assoc 1989 Jul;76(7):573–4.

An evaluation of residency training in interviewing skills and the psychosocial domain of medical practice. Roter DL, et al. J Gen Intern Med 1990 Jul–Aug;5(4):347–54

Medicine and dialogue. Zaner RM. J Med Philos 1990 Jun; 15(3):303–25

Scientists navigate Bermuda triangle of technology transfer [news] Jacobs–Perkins A. J Natl Cancer Inst 1990 Apr 4; 82(7):546–8

Assessing communication in organizations. Farley MJ. J Nurs Adm 1989 Dec;19(12):27–31

The effective use of influence. Wolf GA. J Nurs Adm 1989 Nov;19(11):8–9

Diffusion of associate degree nursing programs among U.S. community colleges. Geis MJ. J Nurs Educ 1990 Apr; 29(4):176–82

Therapeutic communication demystified. Severtsen BM. J Nurs Educ 1990 Apr;29(4):190–2

Witness through time. Sourkes BM. J Palliat Care 1990 Spring;6(1):55–6

Multiple audience problem: a strategic communication perspective on social perception. Fleming JH, et al. J Pers Soc Psychol 1990 Apr;58(4):593–609

Social and linguistic factors influencing adaptation in children's speech. Street RL Jr, et al. J Psycholinguist Res 1989 Sep;18(5):497–519

Helping or hurting? Interacting in the psychiatric milieu. Emrich K. J Psychosoc Nurs Ment Health Serv 1989 Dec; 27(12):26–9

Medical screening of 1500 patients in a dental surgery: a prospective study. Doyle YG, et al. J R Coll Gen Pract 1989 Oct;39(327):415–7

Words or numbers? The evaluation of probability expressions in general practice. O'Brien BJ. J R Coll Gen Pract 1989 Mar;39(320):98–100

Study of the effect of time availability on the consultation [comment] Ridsdale L, et al. J R Coll Gen Pract 1989 Dec; 39(329):488–91 Comment on: J R Coll Gen Pract 1989 Dec;39(329):485–6.

Study of written communication between general practitioners and a community physiotherapist. Scaffardi RA. J R Coll Gen Pract 1989 Sep;39(326):375–6

Music, communication and medicine: discussion paper. Aldridge D. J R Soc Med 1989 Dec;82(12):743–6

Psychiatric referrals within the hospital—the communication process. Leonard I, et al. J R Soc Med 1990 Apr; 83(4):241–4

Closing the gaps: ensuring the application of available knowledge in the promotion of health and the prevention of disease. Foege WH. J Sch Health 1990 Apr;60(4):130–2

Factor structure of the communication profile for the hearing impaired. Demorest ME, et al. J Speech Hear Disord 1989 Nov;54(4):541–9

The meaning of communication to a group of deaf college students: a multidimensional perspective. Foster S, et al. J Speech Hear Disord 1989 Nov;54(4):558–69

Functional communication in Alzheimer's disease. Fromm D, et al. J Speech Hear Disord 1989 Nov;54(4):535–40

Communication mode use of two hearing–impaired adolescents in conversation. Gallagher TM, et al. J Speech Hear Disord 1989 Nov;54(4):570–5

A request for clarification of Huh?, What?, and I didn't understand that [letter; comment] Meline TJ. J Speech Hear Disord 1990 Feb;55(1):171–2 Comment on: J Speech Hear Disord 1988 Nov;53(4):383–91.

Comprehension of social–action games in prelinguistic children: levels of participation and effect of adult structure. Platt J, et al. J Speech Hear Disord 1990 May; 55(2):315–26

Peer–related communicative competence of preschool children: developmental and adaptive characteristics. Guralnick MJ, et al. J Speech Hear Res 1989 Dec; 32(4):930–43

Conversational topics of 4–year–olds. Schober–Peterson D, et al. J Speech Hear Res 1989 Dec;32(4):857–70

Communication skills training, communication skills training with family and cognitive behavioral mood management training for alcoholics. Monti PM, et al. J Stud Alcohol 1990 May;51(3):263–70

Reach for the moon: the TMA–TBA code of cooperation. Lord D. J Tenn Med Assoc 1990 Jan;83(1):25–6

Transplantation of knowledge. Fontan F. J Thorac Cardiovasc Surg 1990 Mar;99(3):387–95

The price of poor communication. Brahams D. Lancet 1990 Jun 16;335(8703):1452

Blood tests before elective surgery on patients who cannot communicate [news] Brahams D. Lancet 1990 Jun 9; 335(8702):1394

Noise pollution in the operating theatre. Hodge B, et al. Lancet 1990 Apr 14;335(8694):891–4

Clinical research planning [letter; comment] Pelosi AJ, et al. Lancet 1989 Dec 23–30;2(8678–8679):1529 Comment on: Lancet 1989 Nov 4;2(8671):1102.

The relief of communication. Pickering WG. Lancet 1989 Oct 14;2(8668):911

Informing patients [letter] Rylance G. Lancet 1989 Oct 14; 2(8668):922

Common ground in asking and understanding questions. Gibbs RW Jr, et al. Lang Speech 1988 Oct–Dec;31 (Pt 4):321–35

Interaction involvement and the use of referential and formal anaphora in conversation. Villaume WA. Lang Speech 1988 Oct–Dec;31 (Pt 4):357–74

Intergenerational education in human sexuality. Lowry LW, et al. MCN 1989 Sep–Oct;14(5):341–5

Privileged communication—talking with a dying adolescent. Pazola KJ, et al. MCN 1990 Jan–Feb;15(1):16–21

Patient information–seeking behaviors when communicating with doctors. Beisecker AE, et al. Med Care 1990 Jan; 28(1):19–28

On studying the discourse of medical encounters. A critique of quantitative and qualitative methods and a proposal for reasonable compromise. Waitzkin H. Med Care 1990 Jun; 28(6):473–88

The effectiveness of microtraining in developing pharmacists' communication skills: a study of personality and attitudes. Hargie OD, et al. Med Teach 1989;11(2):195–203

"Excuse me: I'll have...": teaching appropriate attention–getting behavior to young children with severe handicaps. Cipani E. Ment Retard 1990 Feb;28(1):29–33

Experts offer advice on dealing with the media. Skubick T, et al. Mich Med 1990 Apr;89(4):19–20

The pharmaceutical industry and CME. Heller R. N J Med 1989 Sep;86(9):715–6

Case specificity of performance with simulated patients. Thomson AN. N Z Med J 1990 Aug 8;103(895):372–4

The pictographic molecular paradigm. Pictorial communication in the chemical and biological sciences. Luisi PL, et al. Naturwissenschaften 1990 Feb;77(2):67–74

Open communication and internal working models: their role in the development of attachment relationships. Bretherton I. Nebr Symp Motiv 1988;36:57–113 (163 ref.)

Symbolic expressions of dying patients: communications, not hallucinations. Dugan DO. Nurs Forum 1989;24(2):18–27

Appalling presentations [letter] Matthews J. Nurs Outlook 1989 Nov–Dec;37(6):256

A Spanish language version of the Health–Promoting Lifestyle Profile. Walker SN, et al. Nurs Res 1990 Sep–Oct; 39(5):268–73

Balance communication, protection to solve industrial noise problem. Michael K. Occup Health Saf 1989 Nov;58(12):16, 21–4

Communicating before ... and after ... a bad outcome. Ohio Med 1990 Jan;86(1):62–3

So what? Furtively phoning. Gaffin J. Paediatr Perinat Epidemiol 1989 Oct;3(4):355–6

Use of subjective information in scientific psychology: VI. The inability to speak a foreign language experienced as a disability. Bruhn JG. Percept Mot Skills 1990 Jun;70(3 Pt 2):1111–22

Joint authorship in the physician–patient interaction. Vaughan SC. Pharos 1990 Summer;53(3):38–42

Heralding of break–throughs [editorial] Rothstein JM. Phys Ther 1990 Jan;70(1):1–2

How to communicate with foreign–speaking patients. Koscove E. Postgrad Med 1989 Nov 1;86(6):88

Communication in medical practice across ethnic boundaries. Crisp AH, et al. Postgrad Med J 1989 Mar;65(761):150–5

Communicating with cancer patients. Buckman R. Practitioner 1989 Oct 22;233(1477):1393–4, 1396

How to give a scientific talk. Meshnick SR, et al. Prog Clin Biol Res 1989;319:663–4

The future role of communications in psychopharmacological research and practice. Forster EF. Prog Neuropsychopharmacol 1979;3(1–3):133–6

The future of communication in psychopharmacotherapy. Leeds AA. Prog Neuropsychopharmacol 1979;3(1–3):125–31

Regaining innovation in community mental health. Surles RC. Psychiatr Q 1990 Spring;61(1):11–9

Communication disturbances and hyperactive/conduct–disturbed behavior. David OJ, et al. Psychiatry 1989 Nov;52(4):379–92

Emotion communication skills in young, middle–aged, and older women. Malatesta CZ, et al. Psychol Aging 1987 Jun; 2(2):193–203

Family interaction and child outcome in a high–risk sample. Greenwald DF. Psychol Rep 1990 Apr;66(2):675–88

Is there a hard–to–reach audience? Freimuth VS, et al. Public Health Rep 1990 May–Jun;105(3):232–8

Communication for better health [editorial] McGinnis JM. Public Health Rep 1990 May–Jun;105(3):217–8

Presentation skills—a self development guide. Hammick M. Radiogr Today 1990 Feb;56(633):9–10

Simple preparations make for good speakers. Hulse SF. Radiol Technol 1990 May–Jun;61(5):407–8

re: Registry. Can we talk? Reid JB. Radiol Technol 1990 Mar–Apr;61(4):307–8

Communication problems after mammographic screening [letter; comment] Edelstein G. Radiology 1989 Dec; 173(3):879 Comment on: Radiology 1989 Aug;172(2):443–4.

Communication problems after mammographic screening [letter; comment] Monsees B, et al. Radiology 1990 Jun; 175(3):877–8 Comment on: Radiology 1989 Aug;172(2):443–4.

The holistic paradigm in nursing: the diffusion of an innovation. Johnson MB. Res Nurs Health 1990 Apr; 13(2):129–39

Lung cancer and communication. Partridge MR. Respir Med 1989 Sep;83(5):379–80

A preliminary investigation of the pragmatic abilities of a group of language disordered children. Rosen L, et al. S Afr J Commun Disord 1989;36:43–51

Communicative competence in a group of visually impaired children. Simpson M, et al. S Afr J Commun Disord 1989; 36:23–8

Communication in medical practice [editorial] Van Demark RE Sr. S D J Med 1989 Dec;42(12):13

Diffusion and adoption of state–of–the–art therapy. Ford L, et al. Semin Oncol 1990 Aug;17(4):485–94 (44 ref.)

Collaborative practice and provider styles of delivering health care. Campbell JD, et al. Soc Sci Med 1990; 30(12):1359–65

Conversation during surgery [letter; comment] Albert W. South Med J 1990 May;83(5):602 Comment on: South Med J 1989 Oct;82(10):1220–3.

Research in cost–effectiveness [letter] Shulkin DJ. South Med J 1989 Dec;82(12):1587

Physician–patient communication about breast cancer. A challenge for the 1990s. Schain WS. Surg Clin North Am 1990 Aug;70(4):917–36

The use of probability theory to improve communication

and underwrite medical impairments. Iacovino JR. **Trans Assoc Life Insur Med Dir Am** 1990;73:87–96

Combating poster fatigue: how to use visual grammar and analysis to effect better visual communications. Woolsey JD. **Trends Neurosci** 1989 Sep;12(9):325–32

[The predictive test in Huntington's chorea and the request not to be informed; an ethical problems with indications for the future] Hertogh CM, et al. **Ned Tijdschr Geneeskd** 1990 Apr 7;134(14):714–7 **(Dut)**

[Eurothemes. The more mutual communication, the fewer chances of a 'soft' diagnosis?] Spanjer JM. **Ned Tijdschr Geneeskd** 1990 Aug 4;134(31):1511–2 **(Dut)**

[Theraplay—a direct communication play therapy] Franke U. **Prax Kinderpsychol Kinderpsychiatr** 1990 Jan;39(1):12–7 (Eng. Abstr.) **(Ger)**

[Aspects of communication and understanding in psychoanalytic treatment technics] Boothe B. **Psychother Psychosom Med Psychol** 1989 Nov;39(11):423–8 (27 ref.) (Eng. Abstr.) **(Ger)**

[Problems in information relationships between insurance providers and insurance subscribers (editorial)] Müller W. **Versicherungsmedizin** 1990 Jun 1;42(3):69–70 **(Ger)**

[Mothers and infants as initiators of interaction in several mother/child pairs (2–4 months)] Genta ML, et al. **Minerva Pediatr** 1989 Jun;41(6):305–10 (Eng. Abstr.) **(Ita)**

[A study of factors affecting the communication ability of aphasics] Arai K. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Feb;93(2):282–9 (Eng. Abstr.) **(Jpn)**

[Interpersonal decentration in studies of schizophrenia] Pawlik B. **Psychiatr Pol** 1989 May–Jun;23(3):190–3 (Eng. Abstr.) **(Pol)**

[The status of dermatovenereology and ways to accelerate the introduction of research results into practice] Skripkin IuK, et al. **Vestn Dermatol Venerol** 1989;(8):4–6 **(Rus)**

[Therapeutic power of misunderstandings. Does communication function through cultural barriers?] Sachs L. **Lakartidningen** 1990 Jan 17;87(3):133–6 **(Swe)**

COMMUNICATION AIDS FOR HANDICAPPED see under **SELF-HELP DEVICES**

COMMUNICATION BARRIERS see under **COMMUNICATION**

COMMUNICATION METHODS, TOTAL see under **REHABILITATION**

COMMUNICATIVE DISORDERS

Communication disorders: a power analytic assessment of recent research. Kroll RM, et al. **J Commun Disord** 1975 Sep;8(3):237–47 (24 ref.)

Single case experimental designs: an essential service in communicatively disabled care. Uys IC. **S Afr J Commun Disord** 1989;36:53–9

COMPLICATIONS

The incidence of communication disorders in dysphagic patients. Martin BJ, et al. **J Speech Hear Disord** 1990 Feb; 55(1):28–32

DIAGNOSIS

[Communicative disorders and voluntary regulation of activity in children with schizophrenia] Zakharova NV. **Zh Nevropatol Psikhiatr** 1990;90(1):94–100 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Autism: current understanding and management. Le Couteur A. **Br J Hosp Med** 1990 Jun;43(6):448–52 (75 ref.)

[Psychological analysis and correction of early childhood autism of schizophrenic etiology] Goncharova LV, et al. **Zh Nevropatol Psikhiatr** 1990;90(1):88–93 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Potential impact of magnetic resonance imaging on the field of communication disorders. Frumkin NL, et al. **ASHA** 1989 Aug;31(8):95–9 (46 ref.)

PSYCHOLOGY

Pragmatics, socially speaking. **ASHA** 1990 Jan;32(1):53

Communication disorders and emotional/behavioral disorders in children and adolescents. Prizant BM, et al. **J Speech Hear Disord** 1990 May;55(2):179–92 (55 ref.)

The relationship between psychopathology and speech and language disorders in neurologic patients. Sapir S, et al. **J Speech Hear Disord** 1990 Aug;55(3):503–9 (115 ref.)

REHABILITATION

The contribution of the speech-language pathologist. **ASHA** 1989 Aug;31(8):84

Self-help for communication disorders. Diggs CC. **ASHA** 1990 Jan;32(1):32–4

THERAPY

Guidelines for speech-language pathologists serving persons with language, socio-communicative, and/or cognitive-communicative impairments. **ASHA** 1990 Jun–Jul;32(6–7):85–91

Treatment efficacy research: a path to quality assurance. Olswang LB. **ASHA** 1990 Jan;32(1):45–7

Correcting the record [letter] Sparks SN. **ASHA** 1989 Nov; 31(11):5–6

Communication disorders: planning a service to meet the needs. Enderby P, et al. **Br J Disord Commun** 1989 Dec; 24(3):301–31

Communication deficits in stroke survivors. An overview of classification and treatment. Wertz RT. **Stroke** 1990 Sep; 21(9 Suppl):II16–8

COMMUNISM

The ethics of science: its problems and the sphere of research. Frolov IT. **J Med Philos** 1989 Jun;14(3):235–42

Medical ethics in the German Democratic Republic. Luther E. **J Med Philos** 1989 Jun;14(3):289–99

Czechoslovak medicine, a battered child [letter] Vasicka AI, et al. **JAMA** 1990 Jun 27;263(24):3257

[At the borders of perestroika] Kapitanenko AM. **Voen Med Zh** 1989 Jun;(6):9–13 **(Rus)**

[The CPSU—the innovator and moving force of perestroika] Khrobostov VP. **Voen Med Zh** 1990 Mar;(3):3–7 **(Rus)**

HISTORY

[Carl Wunibalt Otto—communist, pharmacist and chemist] Bach I. **Pharmazie** 1989 Nov;44(11):787–9 (Eng. Abstr.) **(Ger)**

[Medical care of October events in Petrograd and Moscow in 1917] Stochik AM. **Sov Zdravookhr** 1989;(11):45–9 **(Rus)**

[Party political work in medical institutions] Berezhnian AP. **Voen Med Zh** 1990 May;(5):20–5 **(Rus)**

TRENDS

The political and economic changes in central and eastern Europe: possible macro-psychosociologic implications [editorial] Lesse S. **Am J Psychother** 1990 Apr;44(2):157–9

The involvement of Soviet psychiatry in the persecution of dissenters. Koryagin A. **Br J Psychiatry** 1989 Mar; 154:336–40; discussion 339–40

COMMUNITY ACTION see **CONSUMER PARTICIPATION**

COMMUNITY DENTISTRY see under **PUBLIC HEALTH DENTISTRY**

COMMUNITY HEALTH AIDES

Use of illiterate volunteer workers for malaria case detection and treatment. Ruebush TK 2d, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):119–25

The "travelling dentist" system of delivering dental care in Newfoundland and Labrador. Perceptions and observations. Messer JG. **Arctic Med Res** 1988;47 Suppl 1:568–70

A procedure for the selection of nonprofessional workers. Goldstein AD, et al. **HSMHA Health Rep** 1971 Jun; 86(6):533–6

Knowledge and attitude among child development project officers towards breast feeding. Kapil U, et al. **Indian J Pediatr** 1989 Nov–Dec;56(6):771–4

Time allocation pattern of multi purpose workers. Talwalkar MA. **Indian J Public Health** 1988 Jul–Sep;32(3):127–33

A community-based rehabilitation programme for pre-school disabled children in Guyana. O'Toole B. **Int J Rehabil Res** 1988;11(4):323–34

Distribution of ivermectin by health workers [letter] Pond B. **Lancet** 1990 Jun 23;335(8704):1539

Village health-workers and GOBI-FFF. An evaluation of a rural programme. Kuhn L, et al. **S Afr Med J** 1990 May 5;77(9):471–5

Community health workers in Bolivia: adapting to traditional roles in the Andean community. Bastien JW. **Soc Sci Med** 1990;30(3):281–7

An assessment of a rural health programme on child and maternal care: the Ogbomoso Community Health Care Programme (CHCP), Oyo State, Nigeria. Iyun F. **Soc Sci Med** 1989;29(8):933–8

Are large-scale volunteer community health worker programmes feasible? The case of Sri Lanka. Walt G, et al. **Soc Sci Med** 1989;29(5):599–608

[Health education and people's participation in health in Nicaragua: research on the profile, role and function of the "brigadistas populares" in health] Leonardi L, et al. **Ann Ig** 1989 May–Aug;1(3–4):717–27 (Eng. Abstr.) **(Ita)**

EDUCATION

Supervision of primary health care workers in Alaska. One approach. Caldera DL. **Arctic Med Res** 1988;47 Suppl 1:357–9

Training for primary eye care in leprosy. Courtright P, et al. **Bull World Health Organ** 1990;68(3):347–51

The Alaskan community health aide scheme. A successful rural health program. Haraldson SS. **N Y State J Med** 1990 Feb;90(2):61–3

Training of village health workers in Tanzania; a comparison of two approaches. Mayombana C, et al. **Trop Doct** 1990 Apr;20(2):63–7

Survey of community health aides in Jamaica (1987–1988). Ennever O, et al. **West Indian Med J** 1990 Jun;39(2):100–8

A correspondence course in primary health care [letter] Mei RL, et al. **World Health Forum** 1989;10(2):237–8

STANDARDS

Community health workers in a Peruvian slum area: an evaluation of their impact on health behavior. Christensen PB, et al. **Bull Pan Am Health Organ** 1990;24(2):183–96

National community health worker programs: how can they be strengthened? Gilson L, et al. **J Public Health Policy** 1989 Winter;10(4):518–32

The relative influence of the community and the health system on work performance: a case study of community health workers in Colombia. Robinson SA, et al. **Soc Sci Med** 1990;30(10):1041–8

A village health worker programme in Nigeria. Bamisaiye A, et al. **World Health Forum** 1989;10(3–4):386–92

TRENDS

The role of Canadian native health workers in achieving self-government. Paul E, et al. **Arctic Med Res** 1988;47 Suppl 1:66–9

Factors associated with the decline of the Cooperative Medical System and barefoot doctors in rural China. Zhu NS, et al. **Bull World Health Organ** 1989;67(4):431–41

UTILIZATION

Feasibility of controlling lymphatic filarial diseases through primary health care system. Patnaik SK, et al. **J Commun Dis** 1989 Jun;21(2):107–10

Acceptability of the Village Health Guides Scheme by the community. Patnaik SK. **J Commun Dis** 1989 Mar; 21(1):46–51

Low utilization of community health workers: results from a household interview survey in Burkina Faso. Sauerborn R, et al. **Soc Sci Med** 1989;29(10):1163–74

Community health workers in national programmes: the case of the family welfare educators of Botswana. Walt G, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):49–55

Participatory nursing research. A promising methodology in Third World countries. Kirkpatrick SM. **West J Nurs Res** 1990 Jun;12(3):282–92

COMMUNITY HEALTH CARE see **COMMUNITY HEALTH SERVICES**

COMMUNITY HEALTH CENTERS

Current recommendations for breast-feeding in cystic fibrosis centers. Luder E, et al. **Am J Dis Child** 1990 Oct; 144(10):1153–6

Results of an intervention to improve compliance with referrals for evaluation of suspected malignancies at neighborhood public health centers. Manfredi C, et al. **Am J Public Health** 1990 Jan;80(1):85–7

Clinical and demographic factors associated with high levels of depression symptoms. Williamson HA Jr. **Fam Med** 1989 Nov–Dec;21(6):428–32

Correlates of senior center participation: a national analysis. Krout JA, et al. **Gerontologist** 1990 Feb;30(1):72–9

Impact of AIDS on a local health department. Rehfield PL. **J Am Osteopath Assoc** 1989 Oct;89(10):1303–4, 1307–8

Poisoning by common kraits and its treatment with polyvalent antivenin [letter] Panda D, et al. **J Indian Med Assoc** 1990 Jan;88(1):22–3

The Waitangirua health centre [letter] Glennie HR. **N Z Med J** 1990 Apr 11;103(887):165

Screening for cervical cancer in emergency centers and sexually transmitted disease clinics. Marcus AC, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):453–5

The mechanism of an osteoporosis center. Galsworthy TD. **Orthop Clin North Am** 1990 Jan;21(1):163–9

A family planning clinic in general practice. Hamilton P. **Practitioner** 1989 Feb 8;233(1462):140, 142, 144

An urban community-based cancer prevention screening and health education intervention in Chicago. Lacey LP, et al. **Public Health Rep** 1989 Nov–Dec;104(6):536–41

Comparison of metabolic control among diabetic subjects at two clinics. O'Connor PJ, et al. **Public Health Rep** 1989 Sep–Oct;104(5):478–82

[Epidemiologic monitoring and decentralized planification: the use of sentinel sites in Guerrero] Andersson N, et al. **Salud Publica Mex** 1989 Jul–Aug;31(4):493–502 (Eng. Abstr.) **(Spa)**

ECONOMICS

Preventive care and practice funding [letter; comment] Frankford R. **Can Med Assoc J** 1990 Jun 15;142(12):1363 Comment on: Can Med Assoc J 1990 Mar 15;142(6):575–81.

HISTORY

Deloisteen Brown, MD. And the neighborhood health clinic—a model for low-cost care. Lamberts MA. **Mich Med** 1990 Apr;89(4):33

LEGISLATION & JURISPRUDENCE

A health examination trial among males in northern Finland.

Näyhä S, et al. **Arctic Med Res** 1988;47 Suppl 1:442–4

MANPOWER

[Primary care in Québec: a comparison between private practitioners and physicians working in public community health centers] Maheux B, et al. **Can J Public Health** 1990 Jan–Feb;81(1):27–31 (Eng. Abstr.) (Fre)

ORGANIZATION & ADMINISTRATION

Do health service organizations and community health centres have higher disease prevention and health promotion levels than fee-for-service practices? [see comments] Abelson J, et al. **Can Med Assoc J** 1990 Mar 15;142(6):575–81 Comment in: Can Med Assoc J 1990 Jun 15;142(12):1363.

Professional responses to alcohol related problems—a study of a health centre. Sanderson KD. **Health Bull (Edinb)** 1989 Nov;47(6):315–9

Hospitals join with public agencies to serve the elderly. Eubanks P. **Hospitals** 1990 Sep 20;64(18):65–70

Pattern of health activity study. Lake JT. **Indian J Public Health** 1988 Oct–Dec;32(4):174–5

Primary Health Centre staff time utilization pattern. Satpathy SK, et al. **Indian J Public Health** 1988 Oct–Dec; 32(4):177–84

A diagnostic centre for general practitioners: results of individual feedback on diagnostic actions. Pop P, et al. **J R Coll Gen Pract** 1989 Dec;39(329):507–8

What this city needs is more mom-and-pops. Masson V. **Nurs Outlook** 1990 Sep–Oct;38(5):247

Health centre efficiency. First results of an organizational analysis of four Finnish health centres. Kekki P, et al. **Scand J Prim Health Care** 1989 Oct;7(3):143–7

Conceptions of space and community in British health policy. Moon G. **Soc Sci Med** 1990;30(1):165–71

[The integrated family health center of Ath. Current approach in the organization of health services] Delvoye P, et al. **Arch Belg** 1989;47(1–4):161–4 (Fre)

[The Center for Family Problems. Organization and the methods of work] Kornatowska I, et al. **Pediatr Pol** 1989 Oct–Dec;64(10–12):631–4 (Eng. Abstr.) (Pol)

[Results of 1 year's activities of the AIDS Serological Laboratory of the District Dermato-Venereological Clinic in Szczecin] Małysa H. **Przegl Dermatol** 1989 Jul–Aug; 76(4):322–5 (Eng. Abstr.) (Pol)

[Notes on 10-year activities of the Center for the Treatment of Pain] Dobrogowski J, et al. **Przegl Lek** 1989;46(12):830–2 (Pol)

[Experience with using computers in sanitary-epidemiological stations for automatic control of laboratory data] Chelnov VM, et al. **Gig Sanit** 1989 Jul; (7):65–6 (Rus)

[Work experience under optimal conditions in the structure of a district sanitary-epidemiologic station in Minsk] Chelnov VM, et al. **Gig Sanit** 1989 Dec;(12):34–6 (Rus)

[Providing and improving information services in the public health and bacteriologic laboratories of the urban sanitary and epidemiologic stations] Kutsenko GI, et al. **Gig Sanit** 1989 Aug;(8):26–9 (Rus)

[Experience with the organizational activities of the regional sanitary-epidemiologic station regarding the prevention of enterobiasis among the population] Lysyĭ AE, et al. **Gig Sanit** 1989 Dec;(12):77–8 (Rus)

[Evaluation of the quality of planning of anti-epidemic measures by the sanitary-epidemiological stations of the Ukraine] Proklina TL, et al. **Gig Sanit** 1989 Jul;(7):58–60 (Rus)

[Improving the design of departments of radiation hygiene at sanitary-epidemiologic stations] Tuchkevich EA, et al. **Gig Sanit** 1989 Sep;(9):68–71 (Rus)

[Work experience of sanitary and epidemiological stations of Kazakhstan in conducting the monitoring of the electromagnetic field sources] Voronina TV, et al. **Gig Sanit** 1990 Mar;(3):81–3 (Rus)

[The role of the consultation-diagnostic centers in rendering therapeutic services in Moscow] Kudriavtsev IuN, et al. **Sov Med** 1989;(10):51–4 (Rus)

[Activities of a district sanitary-epidemiologic station of a large city in providing ecological welfare] Lysyĭ AE. **Sov Zdravookhr** 1989;(7):34–5 (Rus)

[Current problems in the planning of public health institutions] Shubin BF. **Sov Zdravookhr** 1990;(1):6–10 (Rus)

[Experience in using computer technology in the work of a city epidemiological health station] Kurzanov AM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):122–3 (Rus)

STANDARDS

Quality assurance programmes in primary health care in Spain. Saturno PJ, et al. **Aust Clin Rev** 1989;9(2):81–5

District diabetes centres [letter] Knight AH. **Diabetic Med** 1989 Dec;6(9):830

Non-pharmacological treatment of hypertension: differences between health centres in patients' blood pressure and success at withdrawal from drugs. Tibblin G, et al. **Fam Pract** 1990 Mar;7(1):47–51

Hypertension control in a rural community. An assessment of community-oriented primary care. O'Connor PJ, et al. **J Fam Pract** 1990 Apr;30(4):420–4

A place to hea'. Masson V. **Nurs Outlook** 1990 May–Jun; 38(3):113

Managing tuberculosis at the clinic level [letter] Westaway MS. **S Afr Med J** 1990 May 19;77(10):539–40

[Work experience of the Moldavian sanitary and epidemiologic stations concerning the standardization and metrological provision of laboratory control] Bébéléu VP, et al. **Gig Sanit** 1989 Aug;(8):69–71 (Rus)

STATISTICS & NUMERICAL DATA

A nationwide survey of urinalysis practices of methadone maintenance clinics. Utilization of laboratory services. Saxon AJ, et al. **Arch Pathol Lab Med** 1990 Jan; 114(1):94–100

SUPPLY & DISTRIBUTION

AIDS. The latest. Edwards KS. **Ohio Med** 1990 Jan; 86(1):46–53

TRENDS

GPs and the community [letter; comment] Copeman D. **Aust Fam Physician** 1990 Mar;19(3):418–9 Comment on: Aust Fam Physician 1989 Oct;18(10):1179, 1181.

Family medicine and community health centers: a natural alliance [editorial] Engebretsen BJ. **Fam Med** 1989 Nov–Dec;21(6):417–8

UTILIZATION

Substance abuse and mental health status of homeless and domiciled low-income users of a medical clinic. Linn LS, et al. **Hosp Community Psychiatry** 1990 Mar;41(3):306–10

A descriptive analysis of emergency visits to an inner city family practice center. Birrer RB, et al. **J Community Health** 1989 Winter;14(4):197–204

Social class differences in coping with a physicians' strike in Israel. Carmel S, et al. **J Community Health** 1990 Feb; 15(1):45–57

Family practice obstetric ultrasound in an urban community health center. Birth outcomes and examination accuracy of the initial 227 cases. Rodney WM, et al. **J Fam Pract** 1990 Feb;30(2):163–8

Need your doctor be so bed-less? [editorial] Marson B. **Practitioner** 1989 Feb 8;233(1462):109–10

[Family health center follow-up in preschool children] Bendel J, et al. **Harefuah** 1990 Jun 15;118(12):681–4 (Eng. Abstr.) (Heb)

COMMUNITY HEALTH EDUCATION see HEALTH EDUCATION

COMMUNITY HEALTH NURSING

Nurses provide high-risk AIDS outreach. **Am J Nurs** 1990 Jan;90(1):42

Resuscitation status begins at home. Brown LM, et al. **Am J Nurs** 1990 Apr;90(4):24–6

Phone follow-ups are not VNA substitutes [letter; comment] Hirt EM. **Am J Nurs** 1990 Jan;90(1):35 Comment on: Am J Nurs 1989 Jul;89(7):942–3.

Nursing our neighbors. Jamieson MK. **Am J Nurs** 1989 Oct; 89(10):1290–1

Screening for sensorineural deafness by health visitors. The Steering Committee, Oxford Region Child Development Project. Johnson A, et al. **Arch Dis Child** 1990 Aug; 65(8):841–5

Screening elderly patients [see comments] MacLennan WJ. **BMJ** 1990 Mar 17;300(6726):694–5 (17 ref.) Comment in: BMJ 1990 Apr 21;300(6731):1074.

Immunisation: failure and success [letter; comment] Ramaiah RS. **BMJ** 1989 Nov 11;299(6709):1220 Comment on: BMJ 1989 Sep 30;299(6703):808–12.

'Fluoride supplements' [letter] Rigby J. **Br Dent J** 1990 Jan 6;168(1):6

Hospital liaison public health nurses in Ontario: a cross-sectional survey. Edwards NC, et al. **Can J Public Health** 1989 Jul–Aug;80(4):299–300

The incidence of unplanned and unwanted pregnancies among live births from health visitor records. While AE. **Child Care Health Dev** 1990 Jul–Aug;16(4):219–26

Nursing outside hospitals: the working experience of community nurses. Educational characteristics and job perceptions. Temple-Smith MJ, et al. **Community Health Stud** 1989;13(3):306–15

HIV infection, AIDS and community nursing staff in Scotland. Tierney AJ, et al. **Health Bull (Edinb)** 1990 May; 48(3):114–23

Health visiting: a withering profession? Fatchett AB. **J Adv Nurs** 1990 Feb;15(2):216–22

Addressing the needs of informal carers: a neglected area of nursing practice. Nolan MR, et al. **J Adv Nurs** 1989 Nov;14(11):950–61

What do health visitors contribute to the care of children? A study in the north of England. Marsh GN, et al. **J R Coll Gen Pract** 1989 May;39(322):201–5

Community health nurses. Their most significant ethical decision-making problems. Aroskar MA. **Nurs Clin North Am** 1989 Dec;24(4):967–75

Home visitors and child health: analysis of selected programs. Chapman J, et al. **Pediatrics** 1990 Jun;85(6):1059–68

[The community health nurse as health educator in the schools in Finland] Hultin H, et al. **Off Gesundheitswes** 1990 Jul;52(7):339–41 (Ger)

[Ambulatory care of patients with indwelling catheters] Spichty ML. **Ther Umsch** 1989 Oct;46(10):722–6 (Eng. Abstr.) (Ger)

[Tasks of the community nurse in fluoride prevention] Castordai S. **Fogorv Sz** 1990 Jun;83(6):179–80 (Eng. Abstr.) (Hun)

ECONOMICS

A Bristol experience: benefits and cost of an 'asthma nurse' visiting the homes of asthmatic children. Carswell F, et al. **Bristol Med Chir J** 1989 Feb;104(1):11–2

EDUCATION

Nurses as a key PHC link in Papua New Guinea. Spear SF, et al. **Int Nurs Rev** 1990 Jan–Feb;37(1):207–10

Community health practicum with an oncology nursing focus. Coleman EA, et al. **J Cancer Educ** 1986;1(2):95–102

Inter-university collaboration in the development of a distance education course in community health nursing. De Jonge J, et al. **J Nurs Educ** 1989 Sep;28(7):325–7

Community health nursing practice for students in an outreach BSN program in rural North Carolina. Havens BB, et al. **J Nurs Educ** 1989 Oct;28(8):384–6

Experiences of nursing joint appointments in a teaching health unit. Black M, et al. **Public Health Nurs** 1989 Sep; 6(3):135–40

HISTORY

The cost of caring: the Metropolitan Life Insurance Company's Visiting Nurse Service, 1909–1953. Hamilton D. **Bull Hist Med** 1989 Fall;63(3):414–34

MANPOWER

Novel role for specialist nurses in managing diabetes in the community. MacKinnon M, et al. **BMJ** 1989 Aug 26; 299(6698):552–4

[The effect of visits by community nurses on families with small children—a survey of two population groups with normal and reduced number of visits] Guldager E. **Ugeskr Laeger** 1990 Jul 2;152(27):1972–7 (Eng. Abstr.) (Dan)

METHODS

A death in the family. Stephany TM. **Am J Nurs** 1990 Apr; 90(4):54–6

HIV infection and AIDS in England: the experience, knowledge and intentions of community nursing staff. Bond S, et al. **J Adv Nurs** 1990 Mar;15(3):249–55

Health visitors as educators. Foster MC, et al. **J Adv Nurs** 1990 Mar;15(3):286–92

Gaining access to clients: the case of health visiting. Luker KA, et al. **J Adv Nurs** 1990 Jan;15(1):74–82

Postnatal depression: what can a health visitor do? Taylor E. **J Adv Nurs** 1989 Oct;14(10):877–86

An epidemiological approach to community assessment. Finnegan L, et al. **Public Health Nurs** 1989 Sep;6(3):147–51

The life span perspective: a developmental approach to community health nursing. McCool WF, et al. **Public Health Nurs** 1990 Mar;7(1):13–21

Psychosocial aspects of genital herpes: a review of the literature. Swanson JM, et al. **Public Health Nurs** 1990 Jun; 7(2):96–104 (63 ref.)

ORGANIZATION & ADMINISTRATION

Effects of an experimental program on post-hospital adjustment of early discharged patients. Wong J, et al. **Int J Nurs Stud** 1990;27(1):7–20

Linking nursing service and education for student scholarships. Koerner B. **J Prof Nurs** 1989 Sep–Oct; 5(5):243, 293

Coping with stoma care in the community. Elcoat C. **Practitioner** 1989 May 22;233(1469):776–9

STANDARDS

Evaluation of a primary health care project in Nigeria. Onyejiaku EE, et al. **Int Nurs Rev** 1990 May–Jun; 37(3):265–70

Clinical competencies for community health nursing. Kenyon V, et al. **Public Health Nurs** 1990 Mar;7(1):33–9

TRENDS

The future for practice nurses [editorial] Robinson G. **Br J Gen Pract** 1990 Apr;40(333):132–3

The role of the community psychiatric nurse. Tyrer P, et al. **Br J Hosp Med** 1990 Jun;43(6):439–42

Community nursing in The Netherlands. Jonkergouw PH, et al. **Int Nurs Rev** 1990 Jan–Feb;37(1):211–3

Education. Redefining community. Hegyvary ST. **J Prof Nurs** 1990 Jan–Feb;6(1):7

COMMUNITY HEALTH SERVICES

see related

HOSPITALS

San Francisco AIDS Foundation offers consulting programs [news] Bart M. **AIDS Educ Prev** 1989 Summer;1(2):164

AIDS and drug use: breaking the link. Citizens Commission on AIDS for New York City and northern New Jersey. Levin C. **AIDS Educ Prev** 1989 Fall;1(3):231–46

Networking: a successful linkage for community occupational therapists. Hurff JM, et al. **Am J Occup Ther** 1990 May; 44(5):424–30

Medical care in the community for adults with mental retardation [editorial; comment] Crocker AC. **Am J Public Health** 1990 Sep;80(9):1037–8 Comment on: Am J Public Health 1990 Sep;80(9):1043–8.

Meeting the needs for health services of persons with mental retardation living in the community [see comments] Minihan PM, et al. **Am J Public Health** 1990 Sep; 80(9):1043–8 Comment in: Am J Public Health 1990 Sep;80(9):1037–8.

Policy and program options in community-oriented long-term care. Capitman JA. **Ann Rev Gerontol Geriatr** 1989;9:357–88 (90 ref.)

Impact of a pilot acute respiratory infection (ARI) control programme in a rural community of the hill region of Nepal. Pandey MR, et al. **Ann Trop Paediatr** 1989 Dec; 9(4):212–20

Research in community child health [see comments] Polnay L. **Arch Dis Child** 1989 Jul;64(7):981–3 Comment in: Arch Dis Child 1990 Jan;65(1):158.

Physician reaction to a local community cholesterol screening program. Buchta WG, et al. **Arch Intern Med** 1989 Nov;149(11):2479–81

Some characteristics of the community practice of pathology in the United States. National Manpower Survey of 1987. Smith RD, et al. **Arch Pathol Lab Med** 1989 Dec; 113(12):1335–42

The role of non-aboriginal physician consultants to aboriginal people. Sarsfield P, et al. **Arctic Med Res** 1988;47 Suppl 1:385–7

Prof. Kazue K. McLaren Leadership Achievement Award: citation. **Asia Pac J Public Health** 1989;3(4):273

Mental health patients in primary health care services in Nepal. Wright C, et al. **Asia Pac J Public Health** 1989; 3(3):224–30

Screening and surveillance of school aged children. Tuke JW. **BMJ** 1990 May 5;300(6733):1180–2

Provision of hearing aids in the community [letter] Bunn MN, et al. **Br J Gen Pract** 1990 Apr;40(333):166–7

Community health centre-based occupational health services for the small workplace: an Ontario study of employer acceptability. Spiegel J, et al. **Can J Public Health** 1989 Sep–Oct;80(5):355–8

Community programs. Breast cancer detection awareness. Fink DJ. **Cancer** 1989 Dec 15;64(12 Suppl):2674–81

Medical practitioners and health promotion: results from a community survey in Sydney's western suburbs. Cumming RG, et al. **Community Health Stud** 1989;13(3):294–300

Community care for elderly diabetics: the Fredericia Survey of diabetic and fasting hyperglycaemic subjects aged 60–74 years. Damsgaard EM, et al. **Dan Med Bull** 1989 Dec; 36(6):565–8

Report of the Working Group on Research into Health Care in the Community. Watt GC. **Health Bull (Edinb)** 1989 May;47(3):150–7

Community participation in health programmes. Dyal Chand A. **Indian Pediatr** 1989 Nov;26(11):1109–14

Perspectives of people with learning difficulties on relocation and community care. Booth T, et al. **Int J Rehabil Res** 1989;12(2):167–74

Training in community ophthalmology. Johnson GJ, et al. **Int Ophthalmol** 1990 May;14(3):221–6

Working together. **Iowa Med** 1990 Apr;80(4):213–4

Community notification of child sexual abuse. Hynes M, et al. **Ir Med J** 1989 Sep;82(3):115–7

Community reintegration program. Goggins M, et al. **J Burn Care Rehabil** 1990 Jul–Aug;11(4):343–6

A steep decline of death in a shigellosis epidemic in Bangladesh by a community—participated intervention. Islam Q, et al. **J Diarrhoeal Dis Res** 1988 Sep–Dec; 6(3–4):215–20

Community care for the elderly [letter] Wheatley KA. **J R Coll Gen Pract** 1989 Mar;39(320):122

Outreach education among intravenous drug users: use CHOWs [letter] Newmeyer J. **JAMA** 1989 Dec 8; 262(22):3130–1

A comparison of hospital and community case management programs for persons with AIDS. Piette J, et al. **Med Care** 1990 Aug;28(8):746–55

State programs for the elderly. Villane AM Jr. **N J Med** 1989 Oct;86(10):795–6

Solo v group general practice [letter; comment] Booth B. **N Z Med J** 1990 Apr 11;103(887):164 Comment on: N Z Med J 1990 Feb 28;103(884):81.

AIDS and intravenous drug use: future directions for community-based prevention research. **NIDA Res Monogr** 1990;93:1–299

Community prevention efforts to reduce the spread of AIDS associated with intravenous drug abuse. Battjes RJ, et al. **NIDA Res Monogr** 1990;93:288–99

HIV-related disorders, needle users, and the social services. Shulman LC, et al. **NIDA Res Monogr** 1990;93:254–76

Political subversion on Ninth and P? Masson V. **Nurs Outlook** 1990 Mar–Apr;38(2):57

Local health departments: the medical community's best-kept secret? Edwards KS. **Ohio Med** 1989 Sep;85(9):686–8

Community services for children with mental retardation. Nelson RP. **Pediatr Ann** 1989 Oct;18(10):615–21

Utilizing television to promote a community colon cancer screening program. Bloch S, et al. **Prog Clin Biol Res** 1990; 339:311–23

Familial cancer genetic evaluation: introduction into a community cancer screening program. Knell E, et al. **Prog Clin Biol Res** 1990;339:361–6

The effect of health education for diabetics in the community. Chuang LM, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Nov–Dec;88(11–12):1143–6

Know your community [letter] Aslam A, et al. **World Health Forum** 1989;10(2):239–40

Community-based rehabilitation for disabled children in rural Guyana [letter] O'Toole B. **World Health Forum** 1989; 10(2):238–9

[Handbook for the district physician. I] Snajdr J, et al. **Zdrav Aktual** 1986;209:1–288 **(Cze)**

[HIV transmission and risk behavior among drug addicts at a treatment institution in Copenhagen (Klub 47)] Ege PP. **Ugeskr Laeger** 1989 Dec 18;151(51):3482–4 (Eng. Abstr.) **(Dan)**

[Management of HIV infected and AIDS patients in Hesse] Schaefer OP. **Verh Dtsch Ges Inn Med** 1989;95:423–32 **(Ger)**

[Child health in a developing population with changing patterns of belief (Gaza 1973–1983)] Lasch EE. **Harefuah** 1990 May 1;118(9):522–5 (Eng. Abstr.) **(Heb)**

[Possibilities of improving the community health care system in cooperation with the hospitals/polyclinics] Sonderlich J. **Cesk Zdrav** 1990 Jun;38(5):232–5 (Eng. Abstr.) **(Slo)**

[Application of the negotiated process method to primary health care for women] Reeves J, et al. **Bol Of Sanit Panam** 1989 Aug;107(2):93–100 (Eng. Abstr.) **(Spa)**

[Integral practice of medicine] Gutiérrez-Trujillo G. **Gac Med Mex** 1989 Jan–Feb;125(1–2):55–60 **(Spa)**

ECONOMICS

The Independent Living Fund [letter] Black D. **BMJ** 1990 Aug 18–25;301(6748):385

Charge the community but delay its care. Groves T. **BMJ** 1990 Jul 28;301(6745):192

Prolonging life at home: what is the cost? Donaldson C, et al. **Community Med** 1989 Aug;11(3):200–9

Costing a community based screening programme for the detection of glaucoma. Jones SJ, et al. **Eye** 1990;4 (Pt 1):98–102

A foundation's approach to assessing community needs. Hoerlin BY, et al. **Health Aff (Millwood)** 1989 Fall; 8(3):212–20

Costs of community care for disabled elderly persons: the policy implications. Liu K, et al. **Inquiry** 1990 Spring; 27(1):61–72

Economics of health in South Africa: past, present and future. Benatar SR. **Med Law** 1989;8(2):111–7 (12 ref.)

Design, implementation, and evaluation of a community financing scheme for hospital care in developing countries: a pre-paid health plan in the Bwamanda health zone, Zaire. Moens F. **Soc Sci Med** 1990;30(12):1319–27

[Approach to the acceptability of the capitation fee system by the population in 3 integrated health centers of the Liège region] Driesma P. **Arch Belg** 1989;47(1–4):170–3 (Eng. Abstr.) **(Fre)**

[New economic mechanisms in the management of health services based on economic methods] Burdin NN, et al. **Sov Med** 1989;(9):3–10 **(Rus)**

HISTORY

[Medical services for migrants in the western regions of Kazakhstan] Dushmanov SKh. **Sov Zdravookhr** 1989; (10):75–7 **(Rus)**

LEGISLATION & JURISPRUDENCE

A community response to elder abuse. Foelker GA Jr, et al. **Gerontologist** 1990 Aug;30(4):560–2

The medical home and PL 99–457 in Hawaii. Sia CC, et al. **Hawaii Med J** 1989 Dec;48(12):529, 531–2, 534–5

MANPOWER

Characteristics of volunteers who deliver health education and promotion: a comparison with organization members and program participants. Wells BL, et al. **Health Educ Q** 1990 Spring;17(1):23–35

A procedure for the selection of nonprofessional workers. Goldstein AD, et al. **HSMHA Health Rep** 1971 Jun; 86(6):533–6

Acceptability of the Village Health Guides Scheme by the community. Patnaik SK. **J Commun Dis** 1989 Mar; 21(1):46–51

Community health workers in national programmes: the case of the family welfare educators of Botswana. Walt G, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):49–55

METHODS

Improvement in rural neonatal mortality: a case study of medical community intervention. Marquardt DN. **Fam Med** 1990 Jul–Aug;22(4):269–74

ORGANIZATION & ADMINISTRATION

Teaching preventive cardiology through community programs. Davidson DM. **Am J Prev Med** 1990;6(2 Suppl):93–7

Population-based and community-oriented approaches to preventive health care. Mullan F, et al. **Am J Prev Med** 1988;4(4 Suppl):141–54; discussion 155–7 (29 ref.)

AIDS prevention for i.v. drug users and their sexual partners in Philadelphia [news] Liebman J, et al. **Am J Public Health** 1990 May;80(5):615–6

Vermont International Travel Clinic: group or individual appointments [news] Stevenson JS, et al. **Am J Public Health** 1990 May;80(5):616–7

The impact of DRGs on community-based service providers: implications for the elderly. Wood JB, et al. **Am J Public Health** 1990 Jul;80(7):840–3

Designing services for the elderly. Berger S, et al. **AORN J** 1990 Feb;51(2):448, 450, 452–4

Reaching the unreached. Ariyaratne AT. **Asia Pac J Public Health** 1989;3(4):268–72

Posyandu: a community based vehicle to improve child survival and development. Leimena SL. **Asia Pac J Public Health** 1989;3(4):264–7

Community care [see comments] Ashley-Miller M. **BMJ** 1990 Feb 24;300(6723):487–8 Comment in: BMJ 1990 Apr 7;300(6729):942–3.

Community care [letter; comment] Beauchamp M. **BMJ** 1990 Apr 7;300(6729):942–3 Comment on: BMJ 1990 Feb 24;300(6723):487–8.

Integrating tuberculosis control activities into the primary health care system at district level. Chaulet P. **Bull Int Union Tuberc Lung Dis** 1989 Jun;64(2):33–5

Involvement of a properly structured network of primary health care in the management of tuberculous patients during a community survey in 45 health districts in Algeria. Zidouni N. **Bull Int Union Tuberc Lung Dis** 1989 Jun; 64(2):36–8

The East of Scotland Diabetes Group. Clarke B. **Diabetic Med** 1990 Feb;7(2):173–4

An inner city district diabetic care scheme. Kopelman P, et al. **Diabetic Med** 1990 Jul;7(6):558–60

Primary health care (PHC) in eastern Africa. Bennett FJ. **East Afr Med J** 1990 Feb;67(2):61–4

Family planning in rural Africa: can it work? Murray SA. **Fam Pract** 1990 Mar;7(1):5–8

Community of caring. Smith GR. **Geriatr Nurs (New York)** 1989 Sep–Oct;10(5):248–9

Psychological and cognitive effects of an exercise program for community-residing older adults. Emery CF, et al. **Gerontologist** 1990 Apr;30(2):184–8

The no-care zone: availability, accessibility, and acceptability in community-based long-term care. Wallace SP. **Gerontologist** 1990 Apr;30(2):254–61

Community-based case management for persons with AIDS. Mor V, et al. **Health Aff (Millwood)** 1989 Winter; 8(4):139–53

Allocative efficiency of case managers for the elderly. Davidson G, et al. **Health Serv Res** 1989 Oct;24(4):539–54

Primary care: hospitals begin to target community needs. Koska MT. **Hospitals** 1990 Apr 5;64(7):24–8

Community-based rehabilitation in the Philippines. Periquet AO. **Int Disabil Stud** 1989 Apr–Jun;11(2):95–6

Extending college health service to the community. Tagg PI, et al. **J Am Coll Health** 1990 May;38(6):285–7

Community-based diabetes programs. Barker CO, et al. **J Med Assoc Ga** 1989 Nov;78(11):753–5

Aspects of community-based nutritional intervention. Pongpaew P, et al. **J Med Assoc Thai** 1990 Apr;73(4):223–7

Evaluating organizational design to assure technology transfer: the case of the Community Clinical Oncology Program. Kaluzny AD, et al. **J Natl Cancer Inst** 1989 Nov 15;81(22):1717–25

Primary and community health services in Newcastle upon Tyne—a joint statement of intent. Brown C, et al. **J R Coll Gen Pract** 1989 Apr;39(321):164–5

Comprehensive school health and the larger community: issues and a possible scenario. Kirby D. **J Sch Health** 1990 Apr;60(4):170–7

Reduction in pneumonia mortality and total childhood mortality by means of community-based intervention trial in Gadchiroli, India. Bang AT, et al. **Lancet** 1990 Jul 28; 336(8709):201–6

Rape treatment programmes: delivering innovative services to survivors. DiNotto DM, et al. **Med Law** 1989;8(1):21–30

Sexual Assault Centre, Auckland, New Zealand. Goodyear F. **Med Law** 1989;8(3):297–302

Reflections on community health education. A program that is working. Carrera MA. **Mt Sinai J Med** 1989 Nov; 56(6):472–7

Chatham Islands: 1981–83. Alchin J. **N Z Med J** 1989 Nov 22;102(880):615–7

Bringing support groups to the community. Booth KE. **Oncol Nurs Forum** 1990 Jul–Aug;17(4):619

Organizing cancer control research in the community setting. Winn RJ. **Prog Clin Biol Res** 1990;339:369–72

The community gatekeeper training model for reducing alcohol abuse and alcohol-related injury. Harrington CR, et al. **R I Med J** 1989 Dec;72(12):459–63

Neighbourhoods for health service administration. Kivell PT, et al. **Soc Sci Med** 1990;30(6):701–11

International politics and primary health care in Costa Rica. Morgan LM. **Soc Sci Med** 1990;30(2):211–9

Community participation in national family planning programs: some organizational issues. Askew I, et al. **Stud Fam Plann** 1990 May–Jun;21(3):127–42

Strengthening health care systems to improve infant health

in rural Nepal. Costello AM.
Trans R Soc Trop Med Hyg 1989 Jan-Feb;83(1):19-22
Survey of community health aides in Jamaica (1987-1988). Ennever O, et al. **West Indian Med J** 1990 Jun;39(2):100-8
[Solving the health and hygienic problems in the Strandzha-Sakar district] Chuchkova M. **Probl Khig** 1989; 14:3-10 (Eng. Abstr.) (Bul)
[Health care and social care cooperation?] Almind G. **Ugeskr Laeger** 1990 Aug 27;152(35):2472 (Dan)
[Management and organization of ambulatory medical care in a district] Schneider K, et al. **Z Gesamte Hyg** 1990 Jan; 36(1):27-9 (Eng. Abstr.) (Ger)
[Consumer participation in health programs] Dias JC. **Rev Bras Malariol Doencas Trop** 1986;38:103-10 (Eng. Abstr.) (Por)
[Tasks of present-day coagulology] Gavrilov OK. **Gematol Transfuziol** 1989 Jun;34(6):3-7 (Eng. Abstr.) (Rus)
[The Alma-Ata Declaration and the development of sanitary and epidemiologic services in Kazakhstan] Klebanov IaA, et al. **Gig Sanit** 1989 Jun;(6):31-4 (Rus)
[Regional systems of city sanitation] Raznoshchik VV, et al. **Gig Sanit** 1989 Aug;(8):80-1 (Rus)
[The role of the consultation-diagnostic centers in rendering therapeutic services in Moscow] Kudriavtsev IuN, et al. **Sov Med** 1989;(10):51-4 (Rus)
[General and family practice abroad] Pomerantsev VP. **Sov Med** 1989;(9):59-62 (14 ref.) (Rus)

STANDARDS

Rural health care [letter] La Nauze J, et al. **Aust N Z J Ophthalmol** 1990 May;18(2):228
Health promotion activities in Quebec hospitals: a comparison of DSC and non-DSC hospitals. Pineault R, et al. **Can J Public Health** 1990 May-Jun;81(3):199-203
Improving the quality of community health surveys and community health promotion campaigns by feedback from the community: experience from the Wallsend community and health project. Clarke RM, et al. **Community Health Stud** 1990;14(1):27-34
A three-year evaluation of the quality of diabetes care in the Norwich community care scheme. Williams DR, et al. **Diabetic Med** 1990 Jan;7(1):74-9
Patients' needs after radiotherapy, the role of the general practitioner. Eardley A. **Fam Pract** 1990 Mar;7(1):39-42
Edinburgh's community drug problem service--a pilot evaluation of methadone substitution. Chalmers JW. **Health Bull (Edinb)** 1990 Mar;48(2):62-72
A new deal for diabetes. Bending J, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):251-4 (28 ref.)
Opportunities for occupational health services. Kogi K. **J Soc Occup Med** 1990 Summer;40(2):45-6
Ethical concerns in caring for older women in the community. McElmurry BJ, et al. **Nurs Clin North Am** 1989 Dec;24(4):1041-50 (45 ref.)
The health needs of the majority versus the health needs of the individual: the reorganization of medical education in Colombia. Bender DE. **Theor Med** 1989 Sep;10(3):239-49
Obstacles to community participation in health care [letter] Chaturvedi RM, et al. **World Health Forum** 1989; 10(3-4):434-5
On course for better health care. Fu YY. **World Health Forum** 1989;10(3-4):384-5
[Handbook for the district physician. I] Snajdr J, et al. **Zdrav Aktual** 1986;209:1-288 (Cze)

STATISTICS & NUMERICAL DATA

An analysis of community service activities in U.S. dental schools. Williams JN, et al. **J Dent Educ** 1990 Mar; 54(3):207-9

SUPPLY & DISTRIBUTION

Maternal health in the Third World. Bullough CH. **BMJ** 1989 Aug 26;299(6698):525-6
Health for all by the year 2000 [letter] Fiander A. **BMJ** 1989 Nov 11;299(6709):1223
AIDS patients need more long-term care options. Eubanks P. **Hospitals** 1989 Nov 5;63(21):64

TRENDS

Preliminary results of an evaluation of Canada's Northern Health Services. A longitudinal review of selected mortality rates. Lehtiniemi L, et al. **Arctic Med Res** 1988; 47 Suppl 1:341-5
New health initiatives for Canada's Native people. Nicholson JD. **Arctic Med Res** 1988;47 Suppl 1:323-6
Evolution of health care system in the James Bay area. Ouellet MB, et al. **Arctic Med Res** 1988;47 Suppl 1:330-3
The role of Canadian native health workers in achieving self-government. Paul E, et al. **Arctic Med Res** 1988;47 Suppl 1:66-9
A plan for the transfer of control of health services to Indian communities in Manitoba. Postl BD, et al. **Arctic Med Res** 1988;47 Suppl 1:346-9
Medical reasons for a change in the management of health services for Canadian Indian and Inuit communities. Shedden DA. **Arctic Med Res** 1988;47 Suppl 1:334-7
The changing role of health program managers during a period of transfer of responsibility for health services to Indian people. Tupper CE. **Arctic Med Res** 1988;47 Suppl 1:338-40
Strategies for involving Native people in the operation and control of health services. Whitmore RG, et al. **Arctic Med Res** 1988;47 Suppl 1:350-3
Community empowerment: reflections on the Australian situation. Labonte R. **Community Health Stud** 1989; 13(3):347-9
Peer review among district health officers in Maharashtra, India. Srinivasan V. **Int J Gynaecol Obstet** 1989 Sep; 30(1):33-6
The future of community and residential care. Payne M. **J R Coll Gen Pract** 1988 Dec;38(317):536-7
Phases of community care in health and social services. Payne M. **J R Soc Health** 1990 Apr;110(2):54-9
The community as the patient. Manahan WD. **Mian Med** 1989 Dec;72(12):703-4, 716
Curing and caring: from two to eighteen. Marshall WJ. **Ohio Med** 1989 Oct;85(10):749-50
Medicalization, public policy and the elderly: social services in jeopardy? Binney EA, et al. **Soc Sci Med** 1990; 30(7):761-71
Commentary on a community-based approach to reproductive health care. Society for Education, Action and Research in Community Health Team. Bang R, et al. **Suppl Int J Gynecol Obstet** 1989;3:125-9
[Possibilities for transforming community health reports into action exemplified by Herne city] Konegen N, et al. **Off Gesundheitswes** 1990 Jun;52(6):267-72 (Eng. Abstr.) (Ger)

UTILIZATION

Psychiatric morbidity and physical illness in health centres. Vázquez-Barquero JL, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):335-9
Males' use of public health department family planning services. Glasser M. **Am J Public Health** 1990 May; 80(5):611-2
Resort to folk healers in a Manitoba Ojibwa community. Garro LC. **Arctic Med Res** 1988;47 Suppl 1:317-20
Mothers' dental attendance patterns and their children's dental attendance and dental health. Gratrix D, et al. **Br Dent J** 1990 Jun 9;168(11):441-3
Use of community support services by elderly patients discharged from general medical and geriatric medical wards. Jackson MF. **J Adv Nurs** 1990 Feb;15(2):167-75
Factors affecting the use of medical, mental health, alcohol, and drug treatment services by homeless adults. Padgett D, et al. **Med Care** 1990 Sep;28(9):805-21
Mental health needs of the chronically mentally ill elderly. Meeks S, et al. **Psychol Aging** 1990 Jun;5(2):163-71
A successful measles campaign as a model for achieving high uptakes of MMR. Hodes DT, et al. **Public Health** 1990 Jan;104(1):27-31
Community health services and health care utilization in rural Bangladesh. Amin R, et al. **Soc Sci Med** 1989;29(12):1343-9
Infant mortality and health care in Mexican communities. Holian J. **Soc Sci Med** 1989;29(5):677-9
The prevalence of health insurance in a Jamaican suburb and its correlations with service utilisation. Paul TJ, et al. **West Indian Med J** 1989 Dec;38(4):238-40

COMMUNITY-INSTITUTIONAL RELATIONS

People against the mentally ill: community opposition to residential treatment facilities. Cheung FM. **Community Ment Health J** 1990 Apr;26(2):205-12
Who really profits from not-for-profits? Arrington B, et al. **Health Serv Res** 1990 Jun;25(2):291-304
Community concerns stall hospital closure. Johnsson J. **Hospitals** 1989 Dec 5;63(23):18, 20-2
1990 Foster McGaw winner: community comes first. Johnsson J. **Hospitals** 1990 Sep 20;64(18):52, 54, 56
Hospital executives face the public eye. Moran EJ. **Hospitals** 1990 Sep 5;64(17):97
The marketplace should not decide who survives [interview by Emily Friedman] Rothstein R. **Hospitals** 1989 Nov 5; 63(21):60-1
Communicating hospital goals fosters support, says exec. Souhrada L. **Hospitals** 1990 Aug 20;64(16):47
An analysis of community service activities in U.S. dental schools. Williams JN, et al. **J Dent Educ** 1990 Mar; 54(3):207-9
Itinerant surgery in the guise of outreach surgery [editorial] Jurkiewicz MJ. **J Med Assoc Ga** 1989 Dec;78(12):805-6
The perceptions of one department of preventive medicine about its obligations to the larger community. Louria DB. **J Public Health Policy** 1989 Autumn;10(3):285-98
Scientifically astute activists seek common ground with clinicians on testing new AIDS drugs [news] Cotton P. **JAMA** 1990 Aug 8;264(6):666, 669-70, 673

ECONOMICS

The effect of group homes for the mentally ill on residential property values. Boydell KM, et al. **Hosp Community Psychiatry** 1989 Sep;40(9):957-8

TRENDS

Providers link health with human service. Johnsson J. **Hospitals** 1990 Jan 5;64(1):34-9

COMMUNITY MEDICINE

Canada's native MDs: small in number, big on helping their community. Gilmore A. **Can Med Assoc J** 1990 Jan 1; 142(1):52-4
Clinical trials for cancer patients. The community practicing physician's perspective. Fleming ID. **Cancer** 1990 May 15; 65(10 Suppl):2388-90
A community-oriented primary care project in a rural population: reducing cardiovascular risk. Gold MR, et al. **J Fam Pract** 1990 Jun;30(6):639-44
Community-oriented primary care. Researchable questions for family practice. Nutting PA. **J Fam Pract** 1990 Jun; 30(6):633-5
The head-injured outpatient: presentations and rehabilitation. DeFazio A, et al. **Md Med J** 1989 Dec;38(12):1035-41
Social work: an important component of community medicine at Mount Sinai School of Medicine. Bosch SJ, et al. **Mt Sinai J Med** 1989 Nov;56(6):459-67
Introducing the concept "community prevention". Amsel Z. **NIDA Res Monogr** 1990;93:vii-xiv
Training specialists in community medicine in Norway. Brekke D. **Scand J Prim Health Care** 1989 Jun;7(2):119-21
[Starting points for the Italian actualization derived from the experience of community medicine in developing countries] Fara GM, et al. **Ann Ig** 1989 Sep-Oct;1(5):853-65 (Eng. Abstr.) (Ita)
[We need a renaissance of the community physician] Klimo F. **Cesk Zdrav** 1989 Nov;37(11):485-92 (Eng. Abstr.) (Slo)

EDUCATION

Community health and departments of preventive medicine. Bakst HJ. **Arch Environ Health** 1967 Jul;15(1):102-6
Twenty years of MECO in Iowa. Caplan RM, et al. **Iowa Med** 1990 Apr;80(4):185-7
Community-based medical education in the Philippines. Lepreau FJ, et al. **JAMA** 1990 Mar 23-30;263(12):1624-5
Teaching nutrition to medical students: a community-based problem-solving approach. Bhattacharji S, et al. **Med Educ** 1990 Jan;24(1):32-6
Training doctors for the year 2000. Hussey RM, et al. **Med Educ** 1990 Jan;24(1):11-3
Setting educational priorities for learning the concepts of population health. MacDonald PJ, et al. **Med Educ** 1989 Sep;23(5):429-39
Family and community health in a new medical school. Musgrove JP. **Med Educ** 1990 Mar;24(2):124-8
Training trainers: a new approach for community medicine [see comments] Evans B, et al. **Public Health** 1990 Jan; 104(1):3-8 Comment in: Public Health 1990 Jan;104(1):1-2.
The health needs of the majority versus the health needs of the individual: the reorganization of medical education in Colombia. Bender DE. **Theor Med** 1989 Sep;10(3):239-49

HISTORY

[Community physicians in the Moscow area (A. P. Chekhov, V. I. Iakovenko, V. A. Pavlovskaia)] Belov AV. **Klin Med (Mosk)** 1989 Jul;67(7):141-6 (Rus)
[Medical science in the Central Volga region during the period of feudalism] Alekseev GA. **Sov Zdravookhr** 1989; (7):70-2 (Rus)

METHODS

Will community physicians participate in rigorous studies of cancer control? The methodology and recruitment of a randomized trial of physician practices. Dietrich AJ, et al. **Prog Clin Biol Res** 1990;339:373-81

ORGANIZATION & ADMINISTRATION

The community hospice doctor in Perth, Western Australia. Reid DB. **J Palliat Care** 1989 Dec;5(4):32-4

TRENDS

The changing face of public health [editorial] Donaldson LF. **Br J Hosp Med** 1990 Feb;43(2):103

COMMUNITY MENTAL HEALTH CENTERS

Transitional programming [letter] Appleby L, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):680-1
AIDS risk and prevention for the chronic mentally ill. Carmen E, et al. **Hosp Community Psychiatry** 1990 Jun; 41(6):652-7
Childhood sexual abuse [letter] Curry JR. **Hosp Community Psychiatry** 1990 Jul;41(7):807
Errors in arrest rates [letter] Harry B. **Hosp Community Psychiatry** 1989 Dec;40(12):1303
A collaborative approach to AIDS education [news] Peet M, et al. **Hosp Community Psychiatry** 1989 Nov;40(11):1216
A study of psychiatrically normal children in a hospital based child guidance clinic. Ahuja N, et al. **Indian Pediatr** 1989 Jul;26(7):641-6
Is hepatitis B confined to residential mental handicap centres? [letter] [see comments] Scanlon S. **Ir Med J** 1989 Dec; 82(4):180 Comment in: Ir Med J 1990 Mar;83(1):40.
A two-year follow-up of time limited therapy in a community mental health center in Jerusalem. Witztum E, et al. **Isr J Psychiatry Relat Sci** 1989;26(4):244-58

Clinical approaches to families in early intervention. Zeanah CH, et al. **Semin Perinatol** 1989 Dec;13(6):513–22 (68 ref.)
[Actions and results in the framework of community therapy of adolescents] Meyer A. **Rev Med Suisse Romande** 1989 Oct;109(10):791–7 **(Fre)**
[How did things go? Results and conclusions of follow-up of one year's clients] Zürn H, et al.
Prax Kinderpsychol Kinderpsychiatr 1990 May–Jun; 39(5):185–90 (Eng. Abstr.) **(Ger)**
[Registration of cases at the mental health services in Asturias: its establishment and use for the evaluation of health care] García González J, et al.
Rev Sanid Hig Publica (Madr) 1988 May–Aug; 62(5–8):1469–82 **(Spa)**

ECONOMICS

CMHC emergency services in the 1980's: effects of funding changes. Scherl EK, et al. **Community Ment Health J** 1989 Winter;25(4):267–75

MANPOWER

Trends in the rural community mental health work force: a case study. Stuve P, et al.
Hosp Community Psychiatry 1989 Sep;40(9):932–6
Impact of the AHEC mental health initiative on rural areas. Grode SS. **N C Med J** 1989 Dec;50(12):710–2

ORGANIZATION & ADMINISTRATION

Screening CMHC outpatients for physical illness. Bartsch DA, et al. **Hosp Community Psychiatry** 1990 Jul; 41(7):786–90
The new after-care clinic: treating individuals rather than masses. Ricci MS. **J Psychosoc Nurs Ment Health Serv** 1990 Aug;28(8):18–21
A multimodality approach to the treatment of children and families. Schreier HA. **New Dir Ment Health Serv** 1990 Summer;(46):75–80
[Consultations for infants in an infant-juvenile psychiatric service. Catamnestic study based on 28 cases. Evaluation of therapeutic interventions performed and results obtained as a function of the family psychodynamic organization] Macias M. **Rev Med Suisse Romande** 1990 Feb; 110(2):161–72 **(Fre)**
[Ukrainian Psychiatric Consultation Center— a new organizational form of outpatient psychiatric services for the population] Churkin AA, et al.
Zh Nevropatol Psikhiatr 1989;89(10):102–5 (Eng. Abstr.) **(Rus)**
[2 organizational forms of facilities for mentally ill patients who lost their family care] Litvinenko VI.
Zh Nevropatol Psikhiatr 1989;89(10):105–8 (Eng. Abstr.) **(Rus)**
[Analysis of the activities of psychoneurological dispensaries rendering the services to patients with borderline conditions] Rumiantseva GM, et al.
Zh Nevropatol Psikhiatr 1989;89(11):87–92 (Eng. Abstr.) **(Rus)**

STANDARDS

Clinical guidelines for the use of involuntary outpatient treatment. Geller JL. **Hosp Community Psychiatry** 1990 Jul; 41(7):749–55
Patient satisfaction [letter] Wellington TA, et al.
Hosp Community Psychiatry 1990 Jun;41(6):681
Assuring quality in community mental health centers. The need for psychiatric practice guidelines. Clark GH Jr.
Psychiatr Clin North Am 1990 Mar;13(1):113–25 (48 ref.)

STATISTICS & NUMERICAL DATA

Mortality and aggressiveness in a 30-year follow-up study in child guidance clinics in Stockholm. de Château P.
Acta Psychiatr Scand 1990 May;81(5):472–6
Measuring the treatment environment of a psychiatric ward and a community mental health center after the Italian reform. Burti L, et al. **Community Ment Health J** 1990 Apr;26(2):193–204

TRENDS

The role of the community mental health center in prevention of infant, child and adolescent disorders: retrospect and prospect. Berlin IN. **Community Ment Health J** 1990 Feb; 26(1):89–106 (34 ref.)
Survey shows majority of housing programs for mentally disabled developed since 1980 [news]
Hosp Community Psychiatry 1989 Sep;40(9):971–3
Comprehensive sexual health centers: is it time? Levine SB.
J Sex Marital Ther 1989 Fall;15(3):215–24

UTILIZATION

The effect of enrollment in a prepaid health plan on utilization of a community crisis intervention center by chronically mentally ill individuals. Dobmeyer TW, et al. **Community Ment Health J** 1990 Apr;26(2):129–37
Characteristics of homeless mentally ill inpatients. Arana JD.
Hosp Community Psychiatry 1990 Jun;41(6):674–6
What happens to patients after five years of intensive case management stops? McRae J, et al.
Hosp Community Psychiatry 1990 Feb;41(2):175–9
Continuity and intensity of case management activity in three CMHCs. Shaw RE, et al. **Hosp Community Psychiatry** 1990 Mar;41(3):323–6
Psychiatric service utilization differences by sex and locale. Gift TE, et al. **Int J Soc Psychiatry** 1990 Spring;36(1):11–7
[Are child guidance centers oriented to the middle class? Consequences for psychosocial planning] Ehrhardt KJ.
Prax Kinderpsychol Kinderpsychiatr 1989 Nov;38(9):329–35 (Eng. Abstr.) **(Ger)**
[Waiting periods in Bavarian child rearing, adolescent and family counseling centers—results of a 1988 study] Gerlicher K, et al. **Prax Kinderpsychol Kinderpsychiatr** 1990 Feb;39(2):55–60 (Eng. Abstr.) **(Ger)**

COMMUNITY MENTAL HEALTH SERVICES

see related
REHABILITATION

Ranking of needs: a new method of assessment for use with chronic psychiatric patients. Waismann LC, et al.
Acta Psychiatr Scand 1989 Sep;80(3):260–6
Ethical dilemmas in community intervention. Heller K.
Am J Community Psychol 1989 Jun;17(3):367–78
Collaborative treatment of juvenile firesetters: assessment and outreach. Webb NB, et al. **Am J Orthopsychiatry** 1990 Apr; 60(2):305–10
An evaluation of a mental health program for homeless men. Caton CL, et al. **Am J Psychiatry** 1990 Mar;147(3):286–9
Social and community intervention. Heller K.
Annu Rev Psychol 1990;41:141–68 (150 ref.)
An outline of preventive psychiatric programs for children. Bolman WM. **Arch Gen Psychiatry** 1967 Jul;17(1):5–8
After the asylums: The local picture. Groves T. **BMJ** 1990 Apr 28;300(6732):1128–30
After the asylums: the role of the GP [letter] Horder E.
BMJ 1990 Jun 30;300(6741):1723
Primary care of patients with mental disorder in the community. Shepherd M. **BMJ** 1989 Sep 9;299(6700):666–9
Community management of schizophrenia. Falloon IR, et al. **Br J Hosp Med** 1990 Jan;43(1):62–6 (53 ref.)
Day-hospital and community treatment for acute psychiatric illness. A critical appraisal. Creed F, et al.
Br J Psychiatry 1989 Mar;154:300–10 (53 ref.)
Some observations on the supervision of dangerous offender patients. Prins H. **Br J Psychiatry** 1990 Feb;156:157–62 (55 ref.)
Community management of schizophrenia. A two-year follow-up of a behavioural intervention with families [see comments] Tarrier N, et al. **Br J Psychiatry** 1989 May; 154:625–8 Comment in: Br J Psychiatry 1989 Sep;155:419–20.
Returning the not guilty by reason of insanity to the community: a new scale to determine readiness. Eisner HR.
Bull Am Acad Psychiatry Law 1989;17(4):401–13
Some factors relating to satisfactory post-discharge community maintenance of chronic psychotic patients. Fernando ML, et al. **Can J Psychiatry** 1990 Feb;35(1):71–3
Community mental health's role in the AIDS crisis. Knox MD. **Community Ment Health J** 1989 Fall;25(3):185–96 (32 ref.)
Defining case management [letter; comment]
Hosp Community Psychiatry 1990 Apr;41(4):453–4 Comment on: Hosp Community Psychiatry 1989 Sep;40(9):883–4.
Decentralized planning [letter; comment] Blackman S.
Hosp Community Psychiatry 1990 Jan;41(1):95–6 Comment on: Hosp Community Psychiatry 1989 Sep;40(9):916–20.
From theory to practice: the planned treatment of drug users [interview by Stanley Einstein] Brown B. **Int J Addict** 1989 Sep;24(9):897–927
From theory to practice: the planned treatment of drug users [interview by Stanley Einstein] Lief N. **Int J Addict** 1989 Oct;24(10):1011–34
Evaluation of a community treatment program for young adult schizophrenics. McClary S, et al. **J Clin Psychol** 1989 Sep;45(5):806–8
The development of factor-based level of functioning scales from a level of care instrument. Massey OT, et al.
J Clin Psychol 1989 Nov;45(6):903–9
Caring for the mentally handicapped in the community [letter] McKinlay WJ. **J R Coll Gen Pract** 1989 Mar; 39(320):125–6
Schizophrenia: promising new directions in South Carolina. Santos AB Jr, et al. **J S C Med Assoc** 1989 Nov; 85(11):509–14
Community treatment orders for mental illness [letter] McLaren S, et al. **Lancet** 1989 Dec 16;2(8677):1457
Using psychodynamic principles in public mental health.
New Dir Ment Health Serv 1990 Summer;(46):1–111
State data systems and research opportunities. Bigelow DA.
New Dir Ment Health Serv 1989 Winter;(44):73–82
Psychotherapy with the elderly in public mental health settings. Cohen CI. **New Dir Ment Health Serv** 1990 Summer;(46):81–92
Overview of mental health services research. McFarland BH.
New Dir Ment Health Serv 1989 Winter;(44):55–63 (20 ref.)
Mental health services research with forensic populations. Williams MH, et al. **New Dir Ment Health Serv** 1989 Winter;(44):83–95
Treating combined alcohol and drug abuse in community-based programs. Hubbard RL.
Recent Dev Alcohol 1990;8:273–83 (32 ref.)
Structured outpatient treatment of alcohol vs. drug dependencies. Washton AM. **Recent Dev Alcohol** 1990; 8:285–304
Gender differences of young adults with schizophrenic disorders in community care. Test MA, et al.
Schizophr Bull 1990;16(2):331–44
[Frequency of psychiatric admissions from recently built satellite areas (concrete buildings) in the western district of Copenhagen] Klahn JU, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):148–50 (Eng. Abstr.) **(Dan)**
[Geriatric psychiatry in the regimen of community psychiatry. 2. Psychiatric consultation service at a primary care community nursing home for the physically handicapped] Maarbjerg KW, et al. **Ugeskr Laeger** 1990 Jan 29;152(5):305–8 (Eng. Abstr.) **(Dan)**
[Social background and the importance of organized, voluntary neighborhood support] Meyer-Fehr P, et al.
Off Gesundheitswes 1990 Feb;52(2):69–76 (Eng. Abstr.) **(Ger)**
[Mental health services and community support system—from the experiences in a community workshop] Tada N, et al. **Seishin Shinkeigaku Zasshi** 1990;92(1):59–67 **(Jpn)**
[Home care as a tool of community psychiatry] Juárez Laher E, et al. **Arch Neurobiol (Madr)** 1989 Sep–Oct;52(5):225–7 (Eng. Abstr.) **(Spa)**

ECONOMICS

Taking on the roles of educator and mediator: two means of preventing ethical conflicts for community psychologists when financial resources are scarce. Reinharz S.
Am J Community Psychol 1989 Jun;17(3):391–6
Managed care, managed people, and community mental health [editorial] Dumont MP. **Am J Orthopsychiatry** 1990 Apr;60(2):166–7
Capitation payment systems and public mental health care: implications for psychotherapy with the seriously mentally ill. McGovern MP, et al. **Am J Orthopsychiatry** 1990 Apr; 60(2):298–304
The evaluation of mental health care systems [letter; comment] Checinski K, et al. **Br J Psychiatry** 1990 Jan; 156:129–31 Comment on: Br J Psychiatry 1989 Jul;155:12–7.
The evaluation of mental health care systems [see comments] Häfner H, et al. **Br J Psychiatry** 1989 Jul;155:12–7 Comment in: Br J Psychiatry 1990 Jan;156:129–31.
Economic evaluations in the Canadian Mental Health System. I: Theory behind economic evaluation [see comments] Fried BJ, et al. **Can J Psychiatry** 1989 Oct;34(7):633–6 Comment in: Can J Psychiatry 1989 Oct;34(7):631–2.
Economic evaluations in the Canadian Mental Health System. II: From theory to practice in mental health care [see comments] Fried BJ, et al. **Can J Psychiatry** 1989 Oct; 34(7):637–40 Comment in: Can J Psychiatry 1989 Oct;34(7):631–2.
The importance of economic evaluations [editorial; comment] Wasylenki DA. **Can J Psychiatry** 1989 Oct;34(7):631–2 Comment on: Can J Psychiatry 1989 Oct;34(7):633–6. Comment on: Can J Psychiatry 1989 Oct;34(7):637–40.
Opportunities and risks in Philadelphia's capitation financing of public psychiatric services. Schinnar AP, et al.
Community Ment Health J 1989 Winter;25(4):255–66
Costs of managing insanity acquittees under a psychiatric security review board system. Bigelow DA, et al.
Hosp Community Psychiatry 1990 Jun;41(6):613–4
Funding in California [letter; comment] Fuchs AM.
Hosp Community Psychiatry 1989 Dec;40(12):1303 Comment on: Hosp Community Psychiatry 1989 Aug;40(8):799–804.
Treatment of homosexual alcoholics in government-funded agencies: provider training and attitudes. Hellman RE, et al. **Hosp Community Psychiatry** 1989 Nov;40(11):1163–8
Mental illness services in Britain: counting the costs, weighing the benefits [letter] Shanks J.
Hosp Community Psychiatry 1989 Sep;40(9):878–9
Economic barriers to widespread implementation of model programs for the seriously mentally ill. Torrey EF.
Hosp Community Psychiatry 1990 May;41(5):526–31
Community care or the underclass? [letter] Flowerdew JA.
Lancet 1990 Jun 23;335(8704):1530
Rochester: a comprehensive capitation experiment. Babigian HM, et al. **New Dir Ment Health Serv** 1989 Fall;(43):43–54
Public therapy in the nineties: too tough cases, too few resources, too little time. Kupers TA.
New Dir Ment Health Serv 1990 Summer;(46):101–11
Rhode Island: an early effort at managed care. Mauch D.
New Dir Ment Health Serv 1989 Fall;(43):55–64
Wisconsin's system of mental health financing. Stein LI.
New Dir Ment Health Serv 1989 Fall;(43):29–41
The economics of anxiety. Edlund MJ. **Psychiatr Med** 1990; 8(2):15–26 (43 ref.)
Using fiscal data to identify heavy service users. Hadley TR, et al. **Psychiatr Q** 1990 Spring;61(1):41–8
The value and cost-effectiveness of a home-visiting programme for psychiatric patients. Gillis LS, et al.
S Afr Med J 1990 Mar 17;77(6):309–10
Barriers to the care of persons with dual diagnoses: organizational and financing issues. Ridgely MS, et al.
Schizophr Bull 1990;16(1):123–32 (45 ref.)
Meeting production: the economics of contracting mental illness. Baldwin DM. **Soc Sci Med** 1990;30(9):961–8
[Attempt on cost-benefit analysis of the community care in

mental health activity] Nakamoto H, et al. **Seishin Shinkeigaku Zasshi** 1990;92(1):68–71 **(Jpn)**

HISTORY

Reflections prompted by the Community Mental Health Journal. Roen SR. **Community Ment Health J** 1990 Feb; 26(1):9–14

A historical review of the Madison model of community care. Thompson KS, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):625–34; discussion 649–51 (63 ref.)

Joseph Hersey Pratt's cost–effective class method and its contemporary application: some problems in biopsychosocial innovation. Sabin JE. **Psychiatry** 1990 May;53(2):169–84

LEGISLATION & JURISPRUDENCE

Research and action [letter; comment] Judd LL. **Am J Orthopsychiatry** 1990 Apr;60(2):311–2 Comment on: Am J Orthopsychiatry 1989 Oct;59(4):482.

Unique problems encountered in the delivery of mental health services to a Native Alaskan population. Hite VL. **Arctic Med Res** 1988;47 Suppl 1:581–4

Community treatment orders [letter; comment] Rees N. **Aust N Z J Psychiatry** 1989 Sep;23(3):313–4 Comment on: Aust N Z J Psychiatry 1989 Jun;23(2):162–3.

A transition period in psychiatric care in Italy ten years after the reform. Crepet P. **Br J Psychiatry** 1990 Jan;156:27–36

Managing mental health services: some comments for the overdue debate in psychology. Bloom BL. **Community Ment Health J** 1990 Feb;26(1):107–24

Politicians and scientists in the combat against drug abuse. Gunne LM. **Drug Alcohol Depend** 1990 Apr;25(2):241–4

Advocacy in Wisconsin [letter; comment] Greenley D. **Hosp Community Psychiatry** 1989 Nov;40(11):1198–9 Comment on: Hosp Community Psychiatry 1989 May;40(5):453.

Community care of the severely mentally ill: is social control a "necessary evil" in policy–making considerations? Aviram U. **Psychiatr Q** 1990 Summer;61(2):77–86

[Comment on the recommendations of the expert commission of the federal government on the reform of treatment in the psychiatric and psychotherapeutic/psychosomatic field (letter)] Odenbach E. **Nervenarzt** 1989 Aug;60(8):518 **(Ger)**

MANPOWER

The role of the community psychiatric nurse. Tyrer P, et al. **Br J Hosp Med** 1990 Jun;43(6):439–42

Decentralised responsibility—a way forward for 'homeland' mental health care? Freeman M. **S Afr Med J** 1990 May 5;77(9):478–80

Community psychiatry in Bahrain [letter] al–Haddad MK. **World Health Forum** 1989;10(3–4):432

ORGANIZATION & ADMINISTRATION

Creating a new drug service in Edinburgh. Greenwood J. **BMJ** 1990 Mar 3;300(6724):587–9

Who needs long term psychiatric care? Groves T. **BMJ** 1990 Apr 14;300(6730):999–1001

After the asylums: Can the community care? [published erratum appears in BMJ 1990 May 26;300(6736):1394] Groves T. **BMJ** 1990 May 5;300(6733):1186–8

Emotionally handicapped youth in transition: issues and principles for program development. Modrcin MJ. **Community Ment Health J** 1989 Fall;25(3):219–27

Administrative planning in community mental health. Polcin DL. **Community Ment Health J** 1990 Apr;26(2):181–92

A precis of administration. Schwartz DA. **Community Ment Health J** 1989 Fall;25(3):229–44

Mental health and primary care in Africa. Abiodun OA. **East Afr Med J** 1990 Apr;67(4):273–8

Organizational determinants of efficiency and effectiveness in mental health partial care programs. Schinnar AP, et al. **Health Serv Res** 1990 Jun;25(2):387–420

Community housing for chronically mentally ill people. Kerson TS. **Health Soc Work** 1989 Nov;14(4):293–4

Case management: toward a shared definition [see comments] Bachrach LL. **Hosp Community Psychiatry** 1989 Sep; 40(9):883–4 Comment in: Hosp Community Psychiatry 1990 Apr;41(4):453–4.

Promoting family involvement in community residences for chronic mentally ill persons. Bernheim KF. **Hosp Community Psychiatry** 1990 Jun;41(6):668–70

Gold Award. Integrating training and research with clinical services in a community setting. Breakey WR. **Hosp Community Psychiatry** 1989 Nov;40(11):1175–9

Perspectives on homeless mentally ill women. Harris M, et al. **Hosp Community Psychiatry** 1990 Mar;41(3):253–4

Development and validation of a level–of–care instrument for predicting residential placement. Kramer HB, et al. **Hosp Community Psychiatry** 1990 Apr;41(4):407–12

Strategies for improving services for the chronic mentally ill [see comments] Lehman AF. **Hosp Community Psychiatry** 1989 Sep;40(9):916–20 (23 ref.) Comment in: Hosp Community Psychiatry 1990 Jan;41(1):95–6.

A bridge to the community for extended–care state hospital patients. Seling MJ, et al. **Hosp Community Psychiatry** 1990 Feb;41(2):180–3

A demonstration program for chronic recidivists of criminal justice, health, and social service agencies. Corrado RR, et al. **Int J Law Psychiatry** 1989;12(2–3):211–29

Nursing case management: holistic care for the deinstitutionalized chronically mentally ill. Pittman DC. **J Psychosoc Nurs Ment Health Serv** 1989 Nov;27(11):23, 26–7

The Worcester development project: general practitioner satisfaction with a new community psychiatric service. Bennett C. **J R Coll Gen Pract** 1989 Mar;39(320):106–9

Developments in the care of 'new' long–stay inpatients in the United Kingdom—implications for Japanese psychiatry. Iseda T, et al. **Jpn J Psychiatry Neurol** 1990 Mar;44(1):65–72 (18 ref.)

Taking mental health services to the people: the effects of referral to traditional psychiatric facilities. Walker F, et al. **N Z Med J** 1989 Sep 27;102(876):504–6

The uses of therapy in case management. Bryan CM. **New Dir Ment Health Serv** 1990 Summer;(46):19–27

Oregon's state–university collaboration in a national context. Faulkner LR. **New Dir Ment Health Serv** 1989 Winter; (44):29–39

Public psychiatry in Oregon and Colorado: programs with common roots. Neligh G, et al. **New Dir Ment Health Serv** 1989 Winter;(44):41–52

Collaboration between providers and client–consumers in public mental health programs. Silva EL. **New Dir Ment Health Serv** 1990 Summer;(46):57–63

How to help families with mental handicap. Gath A. **Practitioner** 1989 Apr 22;233(1467):565–7

Italian psychiatry in 1978. Balestrieri A. **Psychiatr Pol** 1988 Nov–Dec;22(6):469–73 (8 ref.)

[The nurse in psychiatry and in public health in an ambulatory psychiatric service] Ciana ML, et al. **Rev Med Suisse Romande** 1990 Jan;110(1):43–4 **(Fre)**

[Observations on the collaboration between the Psychosocial Service and the Cantonal Office of Minors derived from common situations] Wildhaber L. **Rev Med Suisse Romande** 1990 Jan;110(1):49–52 **(Fre)**

[Concept and services provided by a mobile pediatric and adolescent psychiatric service in a rural area] Remschmidt H, et al. **Psychiatr Prax** 1990 May;17(3):99–106 (Eng. Abstr.) **(Ger)**

[Ukrainian Psychiatric Consultation Center— a new organizational form of outpatient psychiatric services for the population] Churkin AA, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):102–5 (Eng. Abstr.) **(Rus)**

[Neuroses among the rural population (data of the epidemiological study) and the organization of therapeutic and rehabilitation measures] Filyk VS. **Zh Nevropatol Psikhiatr** 1989;89(11):93–5 (Eng. Abstr.) **(Rus)**

[2 organizational forms of facilities for mentally ill patients who lost their family care] Litvinenko VI. **Zh Nevropatol Psikhiatr** 1989;89(10):105–8 (Eng. Abstr.) **(Rus)**

[Effect of psychiatric service resources on detection of mentally ill patients in Siberia and Far East (correlation–regression analysis)] Potapov AI, et al. **Zh Nevropatol Psikhiatr** 1990;90(3):103–7 (Eng. Abstr.) **(Rus)**

[Analysis of the activities of psychoneurological dispensaries rendering the services to patients with borderline conditions] Rumiantseva GM, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):87–92 (Eng. Abstr.) **(Rus)**

[Classification and psychological prevention of pre–nosological forms of borderline conditions occurring in the Northern Siberia] Semke VIa, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):78–84 (Eng. Abstr.) **(Rus)**

[Prevention of the initial forms of neurotic disorders] Trifonov BA, et al. **Zh Nevropatol Psikhiatr** 1989; 89(11):84–7 (Eng. Abstr.) **(Rus)**

[Current problems of mental health: its status and prospects] Vartanian ME. **Zh Nevropatol Psikhiatr** 1989;89(10):3–12 **(Rus)**

STANDARDS

Standards of care for area mental health services. Rosen A, et al. **Aust N Z J Psychiatry** 1989 Sep;23(3):379–95

Community psychiatry: are we coping? [letter; comment] Tyrer P. **Br J Hosp Med** 1989 Nov;42(5):426 Comment on: Br J Hosp Med 1989 Aug;42(2):101.

Community care for the seriously mentally ill [letter; comment] Westall J. **Br J Hosp Med** 1989 Dec;42(6):510 Comment on: Br J Hosp Med 1989 Aug;42(2):101.

Operation outreach: intensive case management for severely psychiatrically disabled adults. Bush CT, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):647–9; discussion 649–51

Services for the homeless [letter] Koshes RJ, et al. **Hosp Community Psychiatry** 1990 Mar;41(3):331–2

Assertive community treatment: an evaluation of the experimental evidence. Olfson M. **Hosp Community Psychiatry** 1990 Jun;41(6):634–41; discussion 649–51 (27 ref.)

Towards better psychiatric care in the community [editorial] Wolff S, et al. **J R Soc Med** 1990 Apr;83(4):207–8

STATISTICS & NUMERICAL DATA

Consumer satisfaction with institutional and community care. Corrigan PW. **Community Ment Health J** 1990 Apr; 26(2):151–65 (53 ref.)

What do police officers really want from the mental health system? Gillig PM, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):663–5

SUPPLY & DISTRIBUTION

Psychiatric services in South Africa [letter; comment] Levin A. **Am J Psychiatry** 1990 Jun;147(6):821 Comment on: Am J Psychiatry 1989 Jun;146(6):708–16.

A survey of native mental health needs in Manitoba. Rodgers DD, et al. **Arctic Med Res** 1988;47 Suppl 1:576–80

What does community care mean now? Groves T. **BMJ** 1990 Apr 21;300(6731):1060–2

A systems approach to estimating the required capacity of alcohol treatment services. Rush B. **Br J Addict** 1990 Jan; 85(1):49–59

TRENDS

Patterns of psychiatric care in south Verona and Groningen. A case–register follow–up study. Balestrieri M, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):437–44

Self–help groups at the turning point: emerging egalitarian alliances with the formal health care system? Borkman T. **Am J Community Psychol** 1990 Apr;18(2):321–32 (35 ref.)

Community psychology into the 1990s: capitalizing opportunity and promoting innovation. Linney JA. **Am J Community Psychol** 1990 Feb;18(1):1–17

Families caring for a young adult with mental retardation: service needs and urgency of community living requests. Black MM, et al. **Am J Ment Retard** 1990 Jul;95(1):32–9

Community trauma and community interventions. Macedo H. **Arctic Med Res** 1988;47 Suppl 1:94–6

Psychiatry in the community. **Aust N Z J Psychiatry** 1989 Sep;23(3):302–7

The effectiveness of services and treatment in psychogeriatrics. Draper B. **Aust N Z J Psychiatry** 1990 Jun;24(2):238–51 (121 ref.)

The future of Britain's mental hospitals [letter; comment] **BMJ** 1989 Dec 16;299(6714):1524–5 Comment on: BMJ 1989 Nov 18;299(6710):1237–8.

The future of community care. Groves T. **BMJ** 1990 Apr 7;300(6729):923–4

Specialized addictions assessment/referral services in Ontario: a review of their characteristics and roles in the addiction treatment system. Ogborne AC, et al. **Br J Addict** 1990 Feb;85(2):197–204 (19 ref.)

Physical health of the long–term mentally ill in the community. Is there unmet need? Brugha TS, et al. **Br J Psychiatry** 1989 Dec;155:777–81

The Glasgow rehabilitation survey [see comments] Livingston MG, et al. **Br J Psychiatry** 1989 May;154:620–4 Comment in: Br J Psychiatry 1989 Oct;155:565–6.

Community care and the difficult and offender patient. Scannell TD. **Br J Psychiatry** 1989 May;154:615–9 (59 ref.)

Deinstitutionalisation—from hospital closure to service development. Thornicroft G, et al. **Br J Psychiatry** 1989 Dec;155:739–53 (190 ref.)

Issues in the evaluation of a community psychogeriatric service. Harris AG, et al. **Can J Psychiatry** 1990 Apr; 35(3):215–22

Community care of the seriously mentally ill: continuing problems and current issues. Aviram U. **Community Ment Health J** 1990 Feb;26(1):69–88 (79 ref.)

The community as milieu—a memoir. Cumming J. **Community Ment Health J** 1990 Feb;26(1):15–25

Big ideas, and little ones. Kupers TA. **Community Ment Health J** 1990 Jun;26(3):217–20

Community mental health and information underload. Leighton AH. **Community Ment Health J** 1990 Feb; 26(1):49–67

Geriatric services: community mental health center boon or bane? Swan JH, et al. **Community Ment Health J** 1989 Winter;25(4):327–40

Children's mental health services: a parent perspective. Tarico VS, et al. **Community Ment Health J** 1989 Winter; 25(4):313–26

Georgia looks to the future. DuBois CC, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):606–7

New directions in research on assertive community treatment. Taube CA, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):642–7; discussion 649–51

Characteristics of a rural area community mental health programme County Caroni. Maharaj K, et al. **Int J Soc Psychiatry** 1989 Autumn;35(3):280–4

Overview of a research programme designed to address key issues in the planning and delivery of services for people with mental handicap. Griffin J. **J Ment Defic Res** 1989 Dec;33 (Pt 6):477–85

Community first [editorial] Rowitz L, et al. **Ment Retard** 1990 Jun;28(3):iii–iv

Rural America. Surmounting the obstacles to mental health care. Meyer H. **Minn Med** 1990 Aug;73(8):24–31

Psychotherapy and community support: community mental health systems in transition. Bataille GG. **New Dir Ment Health Serv** 1990 Summer;(46):9–18

Integrating a research agenda into a new psychosocial rehabilitation program. Hansburg F, et al.

New Dir Ment Health Serv 1990 Spring;(45):91–102
Mathematical models in mental health services research. McFarland BH. New Dir Ment Health Serv 1989 Winter; (44):65–72
Developing a regional psychiatric rehabilitation service. Draper R, et al. Psychiatr J Univ Ottawa 1989 Sep; 14(3):467–72
Redesigning a public mental health system. Psychiatr Q 1990 Spring;61(1):1–74
State-academic-research liaisons. Pardes H. Psychiatr Q 1990 Spring;61(1):69–74
Regaining innovation in community mental health. Surles RC. Psychiatr Q 1990 Spring;61(1):11–9
Dictionary of mental health programs: a response to a fragmented mental health system. Waizer J. Psychiatr Q 1990 Spring;61(1):21–39
Meeting the needs of people with psychiatric disorders. Wing JK. Soc Psychiatry Psychiatr Epidemiol 1990 Jan;25(1):2–8 (54 ref.)
[Social renewal (editorial)] Munnichs JM. Tijdschr Gerontol Geriatr 1990 Apr;21(2):49 (Dut)
[Psychiatric planning in Schleswig-Holstein] Müller-Lucks B. Off Gesundheitswes 1989 Aug–Sep;51(8–9):529–32 (Eng. Abstr.) (Ger)
[Psychiatric-psychosocial activities in West Germany: old and new responsibilities] Mitzlaff S. Psychiatr Neurol Med Psychol (Leipz) 1990 Jun; 42(6):348–55 (Eng. Abstr.) (Ger)
[Community psychiatry in Offenbach—a short-cut for local psychiatric service] Bauer M, et al. Psychiatr Prax 1990 Mar;17(2):51–8 (Eng. Abstr.) (Ger)
[Reduction of complete inpatient treatment by a system of partial hospitalization, ambulatory and complementary services] Bolm W, et al. Psychiatr Prax 1989 Nov; 16(6):199–206 (Eng. Abstr.) (Ger)
[Social psychiatry as practical application of epidemiology] Christ J, et al. Schweiz Arch Neurol Psychiatr 1989; 140(6):495–509 (Eng. Abstr.) (Ger)
[The mentally retarded in the local community—occurrence, causes, medical treatment and follow-up] Grimsmo A. Tidsskr Nor Laegeforen 1990 May 20;110(13):1648–50 (Eng. Abstr.) (Nor)
[The mentally retarded in the local community—living conditions, family situation, school attendance, work, leisure and aid activities] Løhre A, et al. Tidsskr Nor Laegeforen 1990 May 20;110(13):1651–4 (Eng. Abstr.) (Nor)

UTILIZATION

Need for mental health services of the adult population in Finland: results from the Mini Finland Health Survey. Lehtinen V, et al. Acta Psychiatr Scand 1990 May; 81(5):426–31
Liaison psychiatry in general practice: the comprehensive collaborative model. Tyrer P, et al. Acta Psychiatr Scand 1990 Apr;81(4):359–63
Economic predictors of mental health service utilization: a time-series analysis. Kiernan M, et al. Am J Community Psychol 1989 Dec;17(6):801–20
Second-generation deinstitutionalization, II: The impact of Brewster v. Dukakis on correlates of community and hospital utilization. Geller JL, et al. Am J Psychiatry 1990 Aug;147(8):988–93
Drug problems and patterns of service use amongst illicit drug users in Edinburgh. Morrison V, et al. Br J Addict 1990 Apr;85(4):547–54
Health care utilization for emotional problems: results from a community survey. Bland RC, et al. Can J Psychiatry 1990 Jun;35(5):397–400
Community mental health and ethnic minority populations. Cheung FK, et al. Community Ment Health J 1990 Jun; 26(3):277–91
Therapist efficiency and clinic accessibility with the Mental Health Research Institute brief therapy model. Chubb H, et al. Community Ment Health J 1990 Apr;26(2):139–49
Patterns of outpatient mental health care over time: some implications for estimates of demand and for benefit design. Wells KB, et al. Health Serv Res 1990 Feb;24(6):773–89
Follow-up of community placement of the chronic mentally ill in New South Wales. Andrews G, et al. Hosp Community Psychiatry 1990 Feb;41(2):184–8
Utilization patterns of community support program clients in New York State. Pulice RT, et al. Hosp Community Psychiatry 1989 Nov;40(11):1192–3
General practitioners' use of community psychiatric nursing services: a preliminary survey. Briscoe M, et al. J R Coll Gen Pract 1989 Oct;39(327):412–4
Delivery of psychiatric care. Strathdee G. J R Soc Med 1990 Apr;83(4):222–5
Factors affecting the use of medical, mental health, alcohol, and drug treatment services by homeless adults. Padgett D, et al. Med Care 1990 Sep;28(9):805–21
Christchurch psychiatric epidemiology study: use of mental health services. Hornblow AR, et al. N Z Med J 1990 Sep 12;103(897):415–7
Long term active psychiatric illness in a Canadian urban region. Hasselback P, et al. Psychiatr Q 1990 Summer; 61(2):105–19
Comprehensive psychiatric emergency services. Oldham JM, et al. Psychiatr Q 1990 Spring;61(1):57–67
A standardized assessment of patients referred to primary care and hospital psychiatric clinics. Struthdee G, et al. Psychol Med 1990 Feb;20(1):219–24
[Utilization of psychiatric services by the total population. Results of an epidemiologic longitudinal study] Meller I, et al. Nervenarzt 1989 Aug;60(8):462–71 (Ger)
[Evaluation of the management of psychiatrically disordered and ill children and adolescents in 3 rural districts. Data of a nearly complete consultation population] Remschmidt H, et al. Nervenarzt 1990 Jan;61(1):34–45 (Ger)
[Analysis of the demands for care at a mental health center] Vincente Muelas N, et al. Arch Neurobiol (Madr) 1990 Jan–Feb;53(1):13–7 (Eng. Abstr.) (Spa)

COMMUNITY PHARMACIES see PHARMACIES

COMMUNITY PHARMACY SERVICES

Value of pharmacy services: perceptions of consumers, physicians, and third party prescription plan administrators [see comments] Hirsch JD, et al. Am Pharm 1990 Mar; NS30(3):20–5 Comment in: Am Pharm 1990 Jul;NS30(7):4.
Mail order and community pharmacy prices are similar, study finds. Martin S. Am Pharm 1990 Jul;NS30(7):23–5
OTC counseling for the pediatric patient: an opportunity for pharmacist involvement. Nykamp D, et al. Am Pharm 1990 May;NS30(5):38–46
Communication of verbal information by community pharmacists. Laurier C, et al. DICP 1989 Nov;23(11):862–8
Role of the community pharmacist [letter; comment] J R Coll Gen Pract 1989 May;39(322):214, 216–7 Comment on: J R Coll Gen Pract 1988 Dec;38(317):563–4.
Pharmacies in health centres [letter] Harding G, et al. J R Coll Gen Pract 1988 Dec;38(317):566–7
The community pharmacist: over qualified dispenser or health professional? Taylor K, et al. J R Coll Gen Pract 1989 May;39(322):209–10
Pharmacists against drug abuse. Cruikshank D. Med Law 1989;8(6):641–4
Pharmacy dispensing practices for Sudanese children with diarrhoea. Berih AA, et al. Public Health 1989 Nov; 103(6):455–8

ECONOMICS

Financial management: a case study in community pharmacy practice. Boyd JA, et al. Am Pharm 1990 Jul;NS30(7):52–6
Teaching pharmacists to provide and bill for clinical services. Martin S. Am Pharm 1990 May;NS30(5):24–6

ORGANIZATION & ADMINISTRATION

Pharmacists in the physician's office [letter; comment] [see comments] Am Pharm 1990 Mar;NS30(3):10 Comment on: Am Pharm 1989 Dec;NS29(12):17–9. Comment in: Am Pharm 1990 Jul;NS30(7):5.
Clinical pharmacy services improve patient care and reduce costs [published erratum appears in Am Pharm 1990 May;NS30(5):7] Bloom MZ. Am Pharm 1990 Apr; NS30(4):17–8
A community pharmacist's perspective on the PharmD issue. Knowlton CH. Am Pharm 1990 Jun;NS30(6):30–1
Making cholesterol screening work in small-town America. Martin S. Am Pharm 1990 Aug;30(8):42–3
Traditional values, innovative practices: pharmacists who provide cognitive services. Martin S. Am Pharm 1990 Apr; NS30(4):22–7
AARP study results not properly explained [letter] Wernik D. Am Pharm 1989 Nov;NS29(11):6
Community pharmacies and prevention of AIDS among injecting drug users [letter] Sloan DS. BMJ 1989 Dec 16; 299(6714):1525–6
Measuring blood pressure in an inner city pharmacy: an attempt at coordination with general practice. Hampton A, et al. Fam Pract 1990 Mar;7(1):52–5

STANDARDS

Controlled study of the impact of educational home visits by pharmacists to high-risk older patients. Sidel VW, et al. J Community Health 1990 Jun;15(3):163–74
Practical benefits achieved by a district diabetic prescribing policy. Kopelman PG, et al. J R Coll Physicians Lond 1989 Oct;23(4):248–50

TRENDS

Changing pharmacy's image [letter] Brown PC. Am Pharm 1989 Nov;NS29(11):6
Dispensing by the community pharmacist: an unstoppable decline? [see comments] Roberts D. J R Coll Gen Pract 1988 Dec;38(317):563–4 Comment in: J R Coll Gen Pract 1989 May;39(322):214, 216–7. Comment in: J R Coll Gen Pract 1989 Aug;39(325):349.

COMMUNITY PSYCHIATRY

The community psychiatrist and political action. Freed HM. Arch Gen Psychiatry 1967 Aug;17(2):129–34
Community psychiatry: are we coping? [letter; comment] Tyrer P. Br J Hosp Med 1989 Nov;42(5):426 Comment on: Br J Hosp Med 1989 Aug;42(2):101.
Highlights of the 41st Institute on Hospital and Community Psychiatry. Wagner J, et al. Hosp Community Psychiatry 1990 Jan;41(1):19–24
General practitioners' use of community psychiatric nursing services: a preliminary survey. Briscoe M, et al. J R Coll Gen Pract 1989 Oct;39(327):412–4
The management of psychiatric disorders in the community. The research magnificent. Shepherd M. J R Soc Med 1990 Apr;83(4):219–22 (31 ref.)
The psychiatrist as administrator and organizational leader. An application of social psychiatry. Daniels AS, et al. Soc Psychiatry Psychiatr Epidemiol 1989 Nov; 24(6):295–300
[Liaison psychiatry: a triangular model] De Andres M, et al. Rev Med Suisse Romande 1990 Feb;110(2):173–80 (Fre)
[Health education in psychiatry] Okkenhaug JL. Tidsskr Nor Laegeforen 1990 Mar 30;110(9):1088–90 (Eng. Abstr.) (Nor)
[Health education and cooperation with the mass media. Experiences from a set up at the Telemark Central Hospital, psychiatric department] Okkenhaug JL. Tidsskr Nor Laegeforen 1990 Mar 30;110(9):1091–3 (Eng. Abstr.) (Nor)
[Child psychiatry at a general hospital. The aims of preventive "liaison child psychiatry"] Wilkinson SR. Tidsskr Nor Laegeforen 1989 Nov 30;109(33):3443–5 (Eng. Abstr.) (Nor)

EDUCATION

Training primary care medical officers in mental health care: an evaluation using a multiple-choice questionnaire. Sriram TG, et al. Acta Psychiatr Scand 1990 May;81(5):414–7
Gold Award. Integrating training and research with clinical services in a community setting. Breakey WR. Hosp Community Psychiatry 1989 Nov;40(11):1175–9
A description of clients nursed by community psychiatric nurses whilst attending English National Board Clinical Course No. 811: clarification of current role? Brooker CG. J Adv Nurs 1990 Feb;15(2):155–66
Public child psychiatry training. Angell RH. New Dir Ment Health Serv 1989 Winter;(44):17–26
The evolution of Oregon's Public Psychiatry Training Program. Bloom JD, et al. New Dir Ment Health Serv 1989 Winter;(44):113–22
Education and training in public psychiatry. Godard SL, et al. New Dir Ment Health Serv 1989 Winter;(44):5–16

METHODS

[Technics in community psychiatry. I: Preliminary study of the community] Levav I, et al. Rev Sanid Hig Publica (Madr) 1988 Jan–Apr; 62(1–4):1339–52 (23 ref.) (Eng. Abstr.) (Spa)

ORGANIZATION & ADMINISTRATION

Public psychiatry in Oregon and Colorado: programs with common roots. Neligh G, et al. New Dir Ment Health Serv 1989 Winter;(44):41–52
[District psychiatry in the Naestved region. Consequences of a reorganization] Jørgensen S, et al. Ugeskr Laeger 1990 Apr 2;152(14):997–1000 (Eng. Abstr.) (Dan)
[Geriatric psychiatry in the regimen of community psychiatry. 1. Community psychiatric services for patients living at home] Kørner EA, et al. Ugeskr Laeger 1990 Jan 29;152(5):303–5 (Eng. Abstr.) (Dan)
[Geriatric psychiatry in the regimen of community psychiatry. 2. Psychiatric consultation service at a primary care community nursing home for the physically handicapped] Maarbjerg KW, et al. Ugeskr Laeger 1990 Jan 29;152(5):305–8 (Eng. Abstr.) (Dan)

TRENDS

Social psychiatry—an overview. Fleck S. Soc Psychiatry Psychiatr Epidemiol 1990 Jan;25(1):48–55 (66 ref.)
[Social psychiatry as practical application of epidemiology] Christ J, et al. Schweiz Arch Neurol Psychiatr 1989; 140(6):495–509 (Eng. Abstr.) (Ger)
[From war psychiatry to disaster and crisis psychiatry] Weisaeth L. Nord Med 1990;105(6–7):177–8 (Eng. Abstr.) (Nor)

COMORBIDITY

The effect of co-morbidity and penetrance estimation on the outcome of linkage analysis in a bipolar family. Wesner RB, et al. Biol Psychiatry 1990 Jan 15;27(2):241–4
Risk adjustment in claims-based research: the search for efficient approaches. Roos LL, et al. J Clin Epidemiol 1989; 42(12):1193–206
Pediatric patients, DRG hospital payment, and comorbidities. Munoz E, et al. J Pediatr 1989 Oct;115(4):545–8
From the Centers for Disease Control. Comorbidity of chronic conditions and disability among older persons—United States, 1984. JAMA 1990 Jan 12; 263(2):209–10
Comorbidity and its impact on disability. Verbrugge LM, et al. Milbank Q 1989;67(3–4):450–84

COMPARTMENT SYNDROMES

see related
NERVE COMPRESSION SYNDROMES

Compartment syndromes of the foot: current concepts. Manoli A 2d. Foot Ankle 1990 Jun;10(6):340–4 (45 ref.)
Lower limb compartment syndrome following lumbar

discectomy in the knee-chest position. Aschoff A, et al. **Neurosurg Rev** 1990;13(2):155–9 (35 ref.)
Acute and recurrent effort-related compartment syndrome in sports. Martens MA, et al. **Sports Med** 1990 Jan;9(1):62–8 (32 ref.)

CHEMICALLY INDUCED

Acute compartment syndrome secondary to theophylline overdose [letter] Lloyd DM, et al. **Lancet** 1990 Aug 4; 336(8710):312

DIAGNOSIS

The use of magnetic resonance imaging in exertional compartment syndromes. Amendola A, et al. **Am J Sports Med** 1990 Jan–Feb;18(1):29–34
Modified criteria for the objective diagnosis of chronic compartment syndrome of the leg. Pedowitz RA, et al. **Am J Sports Med** 1990 Jan–Feb;18(1):35–40
Ultrasound catheter placement for deep posterior compartment pressure measurements in chronic compartment syndrome. Wiley JP, et al. **Am J Sports Med** 1990 Jan–Feb;18(1):74–9
Compartment syndromes in athletes. Black KP, et al. **Clin Sports Med** 1990 Apr;9(2):471–87 (46 ref.)
Acute compartment syndrome following a minor athletic injury. Egan TD, et al. **J Emerg Med** 1989 Jul–Aug; 7(4):353–7
Rupture of the lateral head of the gastrocnemius muscle at the musculotendinous junction mimicking a compartment syndrome. Patton GW, et al. **J Foot Surg** 1989 Sep–Oct; 28(5):433–7
The significance of intracompartmental pressures in the diagnosis of chronic exertional compartment syndrome. Mannarino F, et al. **Orthopedics** 1989 Nov;12(11):1415–8
Diagnosis and treatment of compartment syndrome of the foot. Myerson M. **Orthopedics** 1990 Jul;13(7):711–7 (24 ref.)
[Gluteal compartment syndrome] Lund N, et al. **Ugeskr Laeger** 1990 Feb 26;152(9):610–1 (Eng. Abstr.) **(Dan)**

ETIOLOGY

Bilateral compartment syndrome after a long gynecologic operation in the lithotomy position. Adler LM, et al. **Am J Obstet Gynecol** 1990 May;162(5):1271–2
Superficial compartment syndrome of the foot after infiltration of intravenous fluid. Handler EG. **Arch Phys Med Rehabil** 1990 Jan;71(1):58–9
Compartment syndrome: a cautionary tale. Stoodley NG, et al. **Br J Surg** 1989 Dec;76(12):1297
Lower extremity compartmental syndrome following snake-bite envenomation—one case report. Hsu KY, et al. **Chang Keng I Hsueh** 1990 Mar 20;13(1):54–8
Streptococcal toxic shocklike syndrome leading to bilateral lower extremity compartment syndrome and renal failure. Report of a case. Knezevich S, et al. **Clin Orthop** 1990 May;(254):247–50
Pseudoaneurysm of the radial artery as a cause of a late compartment syndrome. A case report. Rimoldi RL, et al. **Clin Orthop** 1990 Feb;(251):263–5
Compartment syndrome in a five-year-old child following femoral cannulation for cardiopulmonary bypass. Williams PH, et al. **Eur J Cardiothorac Surg** 1989;3(5):474–5
Compartment syndrome following forearm fracture in children. Royle SG. **Injury** 1990 Mar;21(2):73–6
Compartment syndrome after prolonged surgery with leg supports. Bergqvist D, et al. **Int J Colorectal Dis** 1990 Feb; 5(1):1–5 (13 ref.)
Traumatic rupture of the superior gluteal artery, without fracture of the pelvis, causing compartment syndrome of the buttock. A case report. Brumback RJ. **J Bone Joint Surg [Am]** 1990 Jan;72(1):134–7
Compartment syndrome complicating use of the hemi-lithotomy position during femoral nailing. A report of two cases. Dugdale TW, et al. **J Bone Joint Surg [Am]** 1989 Dec;71(10):1556–7
Recurrent compartment syndrome and Volkmann contracture associated with chronic osteomyelitis of the ulna. A case report. Goldie BS, et al. **J Bone Joint Surg [Am]** 1990 Jan;72(1):131–3
Compartment syndrome in the foot after an inversion injury to the ankle. A case report. Kym MR, et al. **J Bone Joint Surg [Am]** 1990 Jan;72(1):138–9
Compartment syndrome after intramedullary nailing of the tibia. Tischenko GJ, et al. **J Bone Joint Surg [Am]** 1990 Jan;72(1):41–4
Compartment syndrome of the foot. Goldman FD, et al. **J Foot Surg** 1990 Jan–Feb;29(1):37–43 (33 ref.)
Transient compartment syndrome of the forearm resulting from venous congestion from a tourniquet. O'Neil D, et al. **J Hand Surg [Am]** 1989 Sep;14(5):894–6
Compartment syndrome as a late complication of eosinophilic fasciitis. Niskanen L, et al. **J Rheumatol** 1989 Oct; 16(10):1364–5
Acute compartment syndrome of the thigh: case report. Foster RD, et al. **J Trauma** 1990 Jan;30(1):108–10
The spectrum of heat related injury with compartment syndrome. Amundson DE. **Milit Med** 1989 Sep; 154(9):450–2
Acute anterior thigh compartment syndrome complicating quadriceps hematoma. Two case reports and review of the literature. Klasson SC, et al. **Orthop Rev** 1990 May; 19(5):421–7 (28 ref.)
Compartment syndrome of the triceps as a complication of thrombolytic therapy. Segal LS, et al. **Orthopedics** 1990 Jan;13(1):90–2
[Ischemic retraction of the intrinsic muscles of the hand in leprosy (a trial of physiopathologic and therapeutic re-evaluation)] Carayon A. **Acta Leprol** 1988 Apr–Dec; 6(5):57–65 (13 ref.) (Eng. Abstr.) **(Fre)**
[Is there a compartment syndrome in dermatology?] Möller R. **Z Hautkr** 1989 Oct 15;64(10):835–6 (16 ref.) (Eng. Abstr.) **(Ger)**
[Gluteal compartment syndrome with normal interstitial pressure in a drug addict (letter)] Nogués X, et al. **Med Clin (Barc)** 1990 Mar 3;94(8):316–7 **(Spa)**

PATHOLOGY

Anatomic dissection of the tibialis posterior muscle and its correlation to medial tibial stress syndrome. Saxena A, et al. **J Foot Surg** 1990 Mar–Apr;29(2):105–8

PHYSIOPATHOLOGY

Posteromedial pain in the lower leg. Melberg PE, et al. **Am J Sports Med** 1989 Nov–Dec;17(6):747–50
Compartment pressures after intramedullary nailing of the tibia. McQueen MM, et al. **J Bone Joint Surg [Br]** 1990 May;72(3):395–7
Current concepts in pathophysiology and diagnosis of compartment syndromes. Moore RE 3d, et al. **J Emerg Med** 1989 Nov–Dec;7(6):657–62 (32 ref.)
Compartment syndrome of the upper extremity. Burgess RC, et al. **J Ky Med Assoc** 1990 Mar;88(3):126–8
Effects of elevation on nerve function in an acute upper extremity nerve compression model. Chidgey LK, et al. **J Orthop Res** 1989;7(6):783–91
Kappa Delta Award paper. Tissue fluid pressures: from basic research tools to clinical applications. Hargens AR, et al. **J Orthop Res** 1989;7(6):902–9 (47 ref.)
Evaluation of injection techniques in recording of intramuscular pressure. Styf J. **J Orthop Res** 1989; 7(6):812–6
Tips of the trade #19. An intraoperative technique for measuring compartmental pressures. Smith MD. **Orthop Rev** 1989 Dec;18(12):1316–8
Noninvasive evaluation and correlation of hemodynamics in "compartment syndrome". Gall WE, et al. **Surg Forum** 1978;29:222–4
[Pressure conditions in adjoining spaces in a provoked compartment syndrome] Zick U, et al. **Beitr Orthop Traumatol** 1990 May;37(5):281–4 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Prophylactic fasciotomy of the legs following acute arterial occlusion procedures. Papalambros EL, et al. **Int Angiol** 1989 Jul–Sep;8(3):120–4
Inhibition of the compartment syndrome by the ablation of free radical-mediated reperfusion injury. Perler BA, et al. **Surgery** 1990 Jul;108(1):40–7

RADIOGRAPHY

The use of CT scan in evaluating Volkmann's syndrome in the limbs. Landi A, et al. **Ital J Orthop Traumatol** 1989 Dec;15(4):521–33

RADIONUCLIDE IMAGING

[A case of rhabdomyolysis demonstrated by Tc-99m methylene diphosphate scintigraphy] Kawamura Y, et al. **Kaku Igaku** 1990 Mar;27(3):267–71 (Eng. Abstr.) **(Jpn)**

SURGERY

Acute compartment syndrome in forearm fractures. Broström LA, et al. **Acta Orthop Scand** 1990 Feb;61(1):50–3
Chronic compartment syndrome. An unusual cause for claudication. Turnipseed W, et al. **Ann Surg** 1989 Oct; 210(4):557–62; discussion 562–3
Immediate care of crush injuries and compartment syndromes with the split-thickness skin excision. Ziv I, et al. **Clin Orthop** 1990 Jul;(256):224–8
Fasciotomy of the foot: an anatomical study with special reference to release of the calcaneal compartment. Manoli A 2d, et al. **Foot Ankle** 1990 Apr;10(5):267–75
Compartment syndromes of the foot. Shereff MJ. **Instr Course Lect** 1990;39:127–32 (17 ref.)
Assessment of a treatment plan for managing acute vascular complications associated with supracondylar fractures of the humerus in children. Clement DA. **J Pediatr Orthop** 1990 Jan–Feb;10(1):97–100
Treatment of compartment syndrome in children. Willis RB, et al. **Orthop Clin North Am** 1990 Apr;21(2):401–12 (95 ref.)
Surgical release for exertional compartment syndrome: don't be too hasty [editorial] D'Ambrosia R. **Orthopedics** 1989 Nov;12(11):1413
[Compartment syndrome in fractures of the shin] Kolman J, et al. **Acta Chir Orthop Traumatol Cech** 1990 Apr; 57(2):127–37 (Eng. Abstr.) **(Cze)**
[Impingement syndrome of the shoulder. 50 cases treated by Neer's anterior acromioplasty] Saragaglia D, et al. **J Chir (Paris)** 1989 Nov;126(11):591–5 (Eng. Abstr.) **(Fre)**
[A rare cause of compartment syndrome of the forearm and hand following snake bite injury] Schnecker K. **Unfallchirurgie** 1990 Jun;16(3):158–9 (Eng. Abstr.) **(Ger)**

THERAPY

Stenosing flexor tenosynovitis. Kraemer BA, et al. **South Med J** 1990 Jul;83(7):806–11 (42 ref.)
Axillary compression syndrome [letter] Lee RE. **Surgery** 1990 Mar;107(3):357–8
[The use of novocaine blocks in the combined treatment of the piriform muscle syndrome] Prokhorchik NM. **Voen Med Zh** 1989 Oct;(10):53–4 **(Rus)**

COMPETENCE, CLINICAL see **CLINICAL COMPETENCE**

COMPETENCE, IMMUNOLOGIC see **IMMUNOCOMPETENCE**

COMPETENCE, PROFESSIONAL see **PROFESSIONAL COMPETENCE**

COMPETENCY-BASED EDUCATION see under **CURRICULUM**

COMPETITIVE BEHAVIOR

Sports competition and its influence on self-esteem development. Hines S, et al. **Adolescence** 1989 Winter; 24(96):861–9
Competition for sucrose-pellets in triads of male Wistar rats: disinhibitory effect of individual housing in poor-performing rats. Gentsch C, et al. **Behav Brain Res** 1990 Apr 16;38(1):19–24
The effects of mastery and competitive conditions on self-assessment at different ages. Butler R. **Child Dev** 1990 Feb;61(1):201–10
Children's understanding of cognitive cuing: how to manipulate cues to fool a competitor. Sodian B, et al. **Child Dev** 1990 Jun;61(3):697–704
Analysis of dominance for competitive ability in Drosophila melanogaster. de Miranda JR, et al. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):221–9
Effects of competition on video-task performance in monkeys (Macaca mulatta). Washburn DA, et al. **J Comp Psychol** 1990 Jun;104(2):115–21
Interpersonal competition can cause individuating processes. Ruscher JB, et al. **J Pers Soc Psychol** 1990 May; 58(5):832–43
Of auctions, dilemmas, and blood-letting: models of escalation behaviour [editorial] **Lancet** 1989 Dec 23–30; 2(8678–8679):1487–8
Competition/cooperation in worksite smoking cessation using nicotine gum. Maheu MM, et al. **Prev Med** 1989 Nov; 18(6):867–76
Weight loss competitions at the worksite: how they work and how well. Stunkard AJ, et al. **Prev Med** 1989 Jul; 18(4):460–74
Adult age differences in the ability to cope with situations of high arousal in a precision sport. Bäckman L, et al. **Psychol Aging** 1986 Jun;1(2):133–9
Effects of adult age and level of skill on the ability to cope with high-stress conditions in a precision sport. Bäckman L, et al. **Psychol Aging** 1986 Dec;1(4):334–6
Type A behavior, competitive achievement-striving, and cheating among college students. Perry AR, et al. **Psychol Rep** 1990 Apr;66(2):459–65

DRUG EFFECTS

Testosterone supports hormone-dependent aggression in female rats. Albert DJ, et al. **Physiol Behav** 1989 Aug; 46(2):185–9
Competition for sucrose-pellets in triads of male Wistar rats: effects of acute and subchronic chlordiazepoxide. Gentsch C, et al. **Psychopharmacology (Berl)** 1990;100(4):530–4
8-OH-DPAT specifically enhances feeding behaviour in mice: evidence from behavioural competition. Shepherd JK, et al. **Psychopharmacology (Berl)** 1990;101(3):408–13

PHYSIOLOGY

Testosterone, and winning and losing in human competition. Booth A, et al. **Horm Behav** 1989 Dec;23(4):556–71
Female rats in a competitive situation: medial hypothalamic lesions increase and ovariectomy decreases success and aggression. Albert DJ, et al. **Physiol Behav** 1989 Sep; 46(3):379–86
Aggression by ovariectomized female rats with testosterone implants: competitive experience activates aggression toward unfamiliar females. Albert DJ, et al. **Physiol Behav** 1990 Apr;47(4):699–703
[The behavior of tamarin monkeys during the learning and realization of instrumental food habits in a competitive situation] Maliukova IV, et al. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr;26(2):221–9 (Eng. Abstr.) **(Rus)**

COMPETITIVE BIDDING see under **FINANCIAL MANAGEMENT**

COMPETITIVE BINDING see **BINDING, COMPETITIVE**

COMPLEMENT

Appearance of slow-reacting, complement-requiring hemagglutination-inhibiting antibody in swine infected with pseudorabies virus. Inaba Y, et al. **Arch Virol** 1990; 113(1-2):115-24

3rd European Meeting on Complement in Human Disease. September 15-17, 1990, Bratislava, CSFR. Abstracts. **Complement Inflamm** 1990;7(3):112-68

Complement-like activity in the sea star, Asterias forbesi. Leonard LA, et al. **Dev Comp Immunol** 1990 Winter; 14(1):19-30

Complement: a brief review. Frank MM. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 1):411-20 (61 ref.)

ADVERSE EFFECTS

Mechanisms by which the erythrocyte protects itself from complement damage. Nicholson-Weller A, et al. **Prog Clin Biol Res** 1989;297:263-70; discussion 270-1

ANALYSIS

Effect of continuous normalization of serum complement levels on clinically evident lupus nephritis [letter; comment] Nossent HC, et al. **Am J Med** 1990 Jul;89(1):125 Comment on: Am J Med 1989 Aug;87(2):132-8.

IgA and complement immunofluorescent pattern in sebaceous gland carcinoma of the eyelid. Grossniklaus HE, et al. **Am J Ophthalmol** 1990 Mar 15;109(3):353-5

Histopathological and immunofluorescence study of the choroid plexus in hepatosplenic schistosomiasis mansoni. Pittella JE, et al. **Am J Trop Med Hyg** 1989 Nov; 41(5):548-52

Complement activity and selected hematologic variables in newborn foals fed bovine colostrum. Lavoie JP, et al. **Am J Vet Res** 1989 Sep;50(9):1532-6

The terminal complement complex (sC5b-9) is not specifically associated with the development of the adult respiratory distress syndrome. Parsons PE, et al. **Am Rev Respir Dis** 1990 Jan;141(1):98-103

Complement components in Nigerians with bronchial asthma. Onyemelukwe GC. **Ann Allergy** 1989 Oct;63(4):309-12

Biochemical values, complement levels, and hemostatic data in septic leukoerythroblastosis. Krauss JS, et al. **Ann Clin Lab Sci** 1989 Nov-Dec;19(6):422-8

Immunoglobulins and complement in splenectomised and autotransplanted subjects. Ge Y, et al. **Ann Med** 1989 Aug; 21(4):265-7

Serum complement values in healthy subjects determined by immunohemolysis and radial immunodiffusion. Gologan R, et al. **Arch Roum Pathol Exp Microbiol** 1979 Jul-Dec; 38(3-4):353-8

The complement system in ischemic heart disease. Yasuda M, et al. **Circulation** 1990 Jan;81(1):156-63

Immunoturbidimetry of serum proteins with the Behring Turbitimer. Harkness D, et al. **Clin Chem** 1989 Oct; 35(10):2144

Complement activation in psoriasis. Rosenberg EW, et al. **Clin Exp Dermatol** 1990 Jan;15(1):16-20

Quantitative measurement of SC5b-9 and C5b-9(m) in infarcted areas of human myocardium. Hugo F, et al. **Clin Exp Immunol** 1990 Jul;81(1):132-6

Alterations in the terminal complement pathway in leukopenic children with malignant diseases during episodes with evidence of infection. Mollnes TE, et al. **Complement Inflamm** 1989;6(6):460-9

Complement levels in patients with hepatic dysfunction. Ellison RT 3d, et al. **Dig Dis Sci** 1990 Feb;35(2):231-5

Effect of amnionitis on the complement system of preterm infants. Kitajima H, et al. **Early Hum Dev** 1990 Jan; 21(1):59-69

Complotyping and subtyping of MHC class I gene products in haplotype determination for bone marrow transplantation. Doxiadis I, et al. **Hamatol Bluttransfus** 1990;33:709-11

Effectiveness of testing for anti-DNA and the complement components iC3b, Bb, and C4 in the assessment of activity of systemic lupus erythematosus. Clough JD, et al. **J Clin Lab Anal** 1990;4(4):268-73

A knowledge-based system for automatic interpretation of an analytical profile of complement factors. Wiener F, et al. **J Clin Lab Anal** 1989;3(5):287-95

Immunofluorescence of immunoglobulins and complement in kidneys taken at necropsy. Varis J, et al. **J Clin Pathol** 1989 Nov;42(11):1211-4

Isolation and characterization of a complement-activating lipid extracted from human atherosclerotic lesions. Seifert PS, et al. **J Exp Med** 1990 Aug 1;172(2):547-57

Assay of complement activity in human serum using large unilamellar liposomes. Masaki T, et al. **J Immunol Methods** 1989 Sep 29;123(1):19-24

Quantitation of C4 nephritic factor by an enzyme-linked immunosorbent assay. Seino J, et al. **J Immunol Methods** 1990 Mar 27;128(1):101-8

Effects of plasmapheresis and autotransfusion on complement recovery in dogs. Ross M, et al. **J Surg Res** 1990 Jul; 49(1):30-3

Multivariate and Boolean factor analysis of immune complex/complement deposits and their effects on renal blood flow during allograft rejection. Shabtai M, et al. **J Urol** 1990 Feb;143(2):237-8

Assembly of terminal SC5b-9 complement complexes: a new index of blood-membrane interaction. Schaefer RM, et al. **Miner Electrolyte Metab** 1990;16(1):73-6

Participation of complement components in glomerular deposition in IgA nephropathy. Suzuki S. **Nippon Jinzo Gakkai Shi** 1989 Oct;31(10):1029-37

Study on pruritus in hemodialysis patients and the antipruritic effect of neurotropin: plasma levels of C3a, C5a, bradykinin and lipid peroxides. Yago H, et al. **Nippon Jinzo Gakkai Shi** 1989 Oct;31(10):1061-7

What is the risk of developing glomerulonephritis in a child with facial lipodystrophy and hypocomplementemia? West CD. **Pediatr Nephrol** 1989 Apr;3(2):174

Can one predict the prognosis in patients with IgA nephropathy from the analysis of serum complement? Wyatt RJ. **Pediatr Nephrol** 1989 Oct;3(4):467

Immune deposits in articular cartilage of patients with rheumatoid arthritis have a granular pattern not seen in osteoarthritis. Vetto AA, et al. **Rheumatol Int** 1990; 10(1):13-9

Complement and immunoglobulin studies in 15 cases of chronic meningococcemia: properdin deficiency and hypoimmunoglobulinemia. Nielsen HE, et al. **Scand J Infect Dis** 1990;22(1):31-6

Immune function in adult highland Papua New Guinea patients with pneumonia. Witt CS, et al. **Trans R Soc Trop Med Hyg** 1989 Mar-Apr;83(2):269-74

A hemolytic assay for the measurement of equine complement. Reis KJ. **Vet Immunol Immunopathol** 1989 Nov 30;23(1-2):129-37

A new hemolytic assay for bovine serum complement and its application during experimental bovine anaplasmosis. Soler-Rodríguez AM, et al. **Vet Immunol Immunopathol** 1990 Apr;24(4):347-60

[Determination of the concentration of immunoglobulins G, A and M and of the complement activity in patients with erysipelas] Docheva Iu, et al. **Vutr Boles** 1989;28(4):139-40 **(Bul)**

[Serum complement composition of myasthenia gravis] Hao ZS. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Jun;22(3):141-3, 190 (Eng. Abstr.) **(Chi)**

[Parapemphigus and variants; clinical and immunological aspects] Laeijendecker R, et al. **Ned Tijdschr Geneeskd** 1989 Sep 2;133(35):1741-4 (Eng. Abstr.) **(Dut)**

[Serum complement levels in patients with rheumatoid arthritis and vasculitis] Tomooka K. **Fukuoka Igaku Zasshi** 1989 Oct;80(10):456-66 (Eng. Abstr.) **(Jpn)**

[Clinical signification of localization of S protein and late components in the skin from lupus patients] Ogawa M, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Apr;99(4):435-41 (Eng. Abstr.) **(Jpn)**

[Changes in complement breakdown products and terminal complement complex in patients with acute glomerulonephritis] Kojima H, et al. **Nippon Jinzo Gakkai Shi** 1989 Sep;31(9):925-31 (Eng. Abstr.) **(Jpn)**

[Clinical significance of the estimations of complement and immune complexes] Yoshida H, et al. **Rinsho Byori** 1989 Dec;37(12):1317-23 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Various indicators of humoral immunity in the population of Moldavian SSR] Gromova II, et al. **Gematol Transfuziol** 1989 Oct;34(10):27-9 (Eng. Abstr.) **(Rus)**

[Study of the complement system and the inhibitors of plasma proteolytic enzymes in the erythrocytes during blood preservation] Krizhevskaia IuV, et al. **Gematol Transfuziol** 1990 May;35(5):18-21 (Eng. Abstr.) **(Rus)**

[Use of immunoenzyme analysis for determining proteins in the complement system and their fragments] Trofimov AV, et al. **Tr Inst Pastera** 1988;64:103-7 **(Rus)**

[Complement and immunoglobulin levels in pregnant women with EPH gestosis] Rosić B, et al. **Srp Arh Celok Lek** 1989 Jul-Aug;117(7-8):459-64 (Eng. Abstr.) **(Scc)**

[The immunologic processes of the etiopathogenesis of Sjögren's syndrome] Oğüt MS, et al. **Mikrobiyol Bul** 1988 Jan;22(1):30-5 (Eng. Abstr.) **(Tur)**

BIOSYNTHESIS

Complement biosynthesis in human synovial tissue. Moffat GJ, et al. **Clin Exp Immunol** 1989 Oct;78(1):54-60

The spleen is not a major synthetic site of alternative pathway components. Truedsson L, et al. **Complement Inflamm** 1990; 7(1):52-6

Regulation of complement biosynthesis by tissue-specific and hormonal factors. Falus A. **Immunol Lett** 1990 Jul; 24(4):227-30; discussion 231-2 (33 ref.)

Enhanced local production of complement components in the small intestines of patients with Crohn's disease. Ahrenstedt O, et al. **N Engl J Med** 1990 May 10; 322(19):1345-9

Synthesis of complement by alveolar macrophages from patients with sarcoidosis. Pettersen HB, et al. **Scand J Immunol** 1990 Jan;31(1):15-23

Serum haemolytic complement activity and C3 levels in bovine trypanosomosis under natural conditions of challenge--early indications of individual susceptibility to disease. Authié E, et al. **Vet Parasitol** 1990 Feb; 35(1-2):43-59

DEFICIENCY

Complement deficiency and the pathogenesis of autoimmune immune complex disease. Lachmann PJ. **Chem Immunol** 1990;49:245-63 (27 ref.)

Complement deficiency: predisposing factor to autoimmune syndromes. Atkinson JP. **Clin Exp Rheumatol** 1989 Sep-Oct;7 Suppl 3:S95-101 (30 ref.)

Alternative complement pathway in hypocomplementemic/normal C1s-C1 inhibitor complex patients with SLE. Levy RA, et al. **Clin Exp Rheumatol** 1990 Jan-Feb;8(1):11-5

Disorders of cells of the myelo-monocyte cell lineage and of the complement system: molecular basis and clinical aspects. Zegers BJ, et al. **Curr Opin Immunol** 1989 Feb; 1(3):490-6 (21 ref.)

Molecular basis of complement deficiencies. Perlmutter DH, et al. **Immunodefic Rev** 1989;1(2):105-33 (242 ref.)

Inherited deficiencies of the late-acting complement components other than C9 found among healthy blood donors. Inai S, et al. **Int Arch Allergy Appl Immunol** 1989; 90(3):274-9

Deposition of complement activation products on plastic-adsorbed immunoglobulins. A simple ELISA technique for the detection of defined complement deficiencies. Zwirner J, et al. **J Immunol Methods** 1989 Nov 13;124(1):121-9

Mononuclear phagocyte system function in BALB/c mice: kinetic analysis of antibody-sensitized erythrocyte clearance in complement-depleted animals. Meryhew NL, et al. **J Lab Clin Med** 1990 Jun;115(6):719-28

Complement deficiency and neutrophil dysfunction as risk factors for bacterial infection in newborns and the role of granulocyte transfusion in therapy. Berger M. **Rev Infect Dis** 1990 May-Jun;12 Suppl 4:S401-9 (47 ref.)

Complement deficiencies in selected groups of patients with meningococcal disease. Nielsen HE, et al. **Scand J Infect Dis** 1989;21(4):389-96

DRUG EFFECTS

Anti-inflammatory drugs and the complement system. A condensation product of metacresolsulfonic acid and formaldehyde prevents instantly the complement activation in vitro. Gancevici GG, et al. **Arch Roum Pathol Exp Microbiol** 1989 Apr-Jun; 48(2):157-62

Isolation of two hemorrhagic toxins from Crotalus basiliscus basiliscus (Mexican west coast rattlesnake) venom and their effect on blood clotting and complement. Molina O, et al. **Int J Biochem** 1990;22(3):253-61

[Effect of intravenous contrast media used in urography on the complement system and blood calcium] Korzec-Grzegorczyk I. **Pol Tyg Lek** 1989 May 1-8; 44(18-19):423-6 (Eng. Abstr.) **(Pol)**

GENETICS

Complement polymorphism in Greece. Triantaphyllidis CD, et al. **Ann Hum Biol** 1989 Sep-Oct;16(5):443-8

Modulation by interferons of the expression of monocyte complement genes. Lappin DF, et al. **Biochem J** 1990 Jun 1;268(2):387-92

The functional role of complement genes in systemic lupus erythematosus and Sjögren's syndrome. Liszewski MK, et al. **Curr Opin Rheumatol** 1989 Oct;1(3):347-52 (20 ref.)

Genetics of complement. **Exp Clin Immmunogenet** 1988; 5(2-3):68-164

Structural superfamilies of the complement system. Bentley DR. **Exp Clin Immmunogenet** 1988;5(2-3):69-80 (80 ref.)

Molecular mapping of the HLA-linked complement genes and the RCA linkage group. Campbell RD, et al. **Exp Clin Immmunogenet** 1988;5(2-3):81-98 (113 ref.)

Hereditary factors in Takayasu disease. III. Polymorphism of human complements. Numano F, et al. **Exp Clin Immmunogenet** 1989;6(3):236-44

Genetic polymorphisms of animal complement components. Whitehouse DB. **Exp Clin Immmunogenet** 1988; 5(2-3):143-64 (82 ref.)

Complement phenotypes in patients with psoriasis. Wyatt RJ, et al. **Hum Hered** 1989;39(6):327-32

Complotypes in pemphigus vulgaris: differences between Jewish and non-Jewish patients. Ahmed AR, et al. **Hum Immunol** 1990 Apr;27(4):298-304

Conservation of the central MHC genome: PFGE mapping and RFLP analysis of complement, HSP70, and TNF genes in the goat. Cameron PU, et al. **Immunogenetics** 1990; 31(4):253-64

Complotypes in individuals of African origin: frequencies and possible extended MHC haplotypes. Fraser PA, et al. **Immunogenetics** 1990;31(2):89-93

Complexity of MHC class III genes and complement polymorphism. Rittner C, et al. **Immunol Today** 1989 Dec; 10(12):401-3

Complete primary structure and functional characterization of the sixth component of the human complement system. Identification of the C5b-binding domain in complement C6. Haefliger JA, et al. **J Biol Chem** 1989 Oct 25; 264(30):18041-51

Transcription, not synthesis, of interleukin-1 and tumor necrosis factor by complement. Schindler R, et al. **Kidney Int** 1990 Jan;37(1):85-93

Human major histocompatibility complex contains a minimum of 19 genes between the complement cluster and

HLA-B. Spies T, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8955–8

IMMUNOLOGY

Complement resistance in Actinobacillus (Haemophilus) pleuropneumoniae infection of swine. Rycroft AN, et al. **Am J Vet Res** 1990 Sep;51(9):1449–53

In vitro effects of complement inactivation upon burn-associated cell-mediated immunosuppression. Ferrara JJ, et al. **Am Surg** 1990 Sep;56(9):571–4

In vitro suppressor T lymphocyte dysfunction in autoimmune thrombocytopenic purpura associated with a complement-fixing antibody. Hymes KB, et al. **Br J Haematol** 1990 Mar;74(3):330–5

Studies on the sensitivity to complement-mediated lysis of erythrocytes (Inab phenotype) with a deficiency of DAF (decay accelerating factor). Merry AH, et al. **Br J Haematol** 1989 Oct;73(2):248–53

Autologous bone marrow transplantation in acute leukemia and lymphoma following ex vivo treatment with monoclonal antibodies and complement. Freedman AS, et al. **Cancer Treat Res** 1988;38:265–83 (83 ref.)

Erythrocytes of patients with paroxysmal nocturnal haemoglobinuria acquire resistance to complement attack by purified 20-kD homologous restriction factor. Okada N, et al. **Clin Exp Immunol** 1990 Apr;80(1):109–13

Reduced immune adherence of antigen/antibody complexes formed in the presence of complement in vivo and in vitro. Paccaud JP, et al. **Complement Inflamm** 1989;6(6):470–9

Effective purging of bone marrow by a combination of immunorosette depletion and complement lysis. Slaper-Cortenbach IC, et al. **Exp Hematol** 1990 Jan; 18(1):49–54

Complement research. Dierich MP, et al. **Immunol Today** 1989 Aug;10(8):S18–20

Homologous species restriction of the complement-mediated killing of nucleated cells. Yamamoto H, et al. **Immunology** 1990 Aug;70(4):422–6

Immunization with Treponema pallidum endoflagella alters the course of experimental rabbit syphilis. Champion CI, et al. **Infect Immun** 1990 Sep;58(9):3158–61

Modulation of sensitivity of blood forms of Trypanosoma cruzi to antibody-mediated, complement-dependent lysis. Kierszenbaum F, et al. **Infect Immun** 1990 Jan;58(1):119–23

Immune mechanisms: IgE, complement, and mucosal immunity. Infante AJ. **J Allergy Clin Immunol** 1989 Dec; 84(6 Pt 2):1015–8

Mechanism of therapeutic effect of high-dose intravenous immunoglobulin. Attenuation of acute, complement-dependent immune damage in a guinea pig model. Basta M, et al. **J Clin Invest** 1989 Dec;84(6):1974–81

Human protectin (CD59), an 18–20-kD homologous complement restriction factor, does not restrict perforin-mediated lysis. Meri S, et al. **J Exp Med** 1990 Jul 1;172(1):367–70

Increased susceptibility of tumor cells and chicken erythrocytes to lysis by antibody and complement after treatment with aminoethylisothiouronium bromide hydrobromide (AET). Langone JJ, et al. **J Immunopharmacol** 1978–79;1(1):43–59

Influence of subinhibitory concentrations of cephalosporins on the serum sensitivity of Pseudomonas aeruginosa. Darveau RP, et al. **J Infect Dis** 1990 Oct;162(4):914–21

Complement mediated serum cytotoxicity against oligodendrocytes: a comparison with other cells of the oligodendrocyte-type 2 astrocyte lineage. Scolding NJ, et al. **J Neurol Sci** 1990 Jul;97(2–3):155–62

Monoclonal antibodies with cytotoxic reactivities against human gliomas. Nanda A, et al. **J Neurosurg** 1989 Dec; 71(6):892–7

Complement-mediated, infection-enhancing antibodies in plasma from vaccinated macaques before and after inoculation with live simian immunodeficiency virus. Montefiori DC, et al. **J Virol** 1990 Oct;64(10):5223–5

The use of a hybridization assay for the study of host defences against herpes simplex virus. Fluit AC, et al. **J Virol Methods** 1989 Dec;26(3):269–78

Anti-GBM nephritis in the mouse: role of granulocytes in the heterologous phase. Schrijver G, et al. **Kidney Int** 1990 Jul;38(1):86–95

Comparative activities of rabbit complements of different ages using an in-vitro marrow purging model. Roy DC, et al. **Leuk Res** 1990;14(5):407–16

Complement-mediated demyelination in patients with IgM monoclonal gammopathy and polyneuropathy. Monaco S, et al. **N Engl J Med** 1990 Mar 8;322(10):649–52

Enhancement of neutralizing activity of anti-feline herpesvirus type 1 sera by complement supplementation. Horimoto T, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):1025–7

Immunological abnormality of the serological tests in bilateral sensorineural hearing loss. Ikeda K, et al. **ORL J Otorhinolaryngol Relat Spec** 1989;51(5):268–75

Repair of Hymenolepis diminuta after complement-mediated damage. Andreassen J, et al. **Parasitology** 1989 Dec;99 Pt 3:437–43

Use of two-colour flow cytometry to assess killing of Giardia muris trophozoites by antibody and complement. Heyworth MF, et al. **Parasitology** 1989 Oct;99 Pt 2:199–203

Purging in auto- and allografts: monoclonal antibodies which use human complement and other natural effector mechanisms. Cobbold SP, et al. **Prog Clin Biol Res** 1990; 333:139–51; discussion 152–4

Interaction of immunoglobulin A with complement and phagocytic cells. Daha MR, et al. **Prog Clin Biol Res** 1989; 297:247–60; discussion 260–1

Immunoregulatory functions of complement: structural and functional studies of complement receptor type 1 (CR1; CD35) and type 2 (CR2; CD21). Fearon DT, et al. **Prog Clin Biol Res** 1989;297:211–20

Immunosuppression by anti-interleukin-2 receptor antibody but not anti-L3T4 requires terminal complement components. Kelley VE, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 1):617

Complement-mediated antibody-dependent enhancement of HIV-1 infection requires CD4 and complement receptors. Robinson WE Jr, et al. **Virology** 1990 Apr;175(2):600–4

The membrane attack pathway of complement. Esser AF. **Year Immunol** 1989–90;6:229–44 (82 ref.)

[Relation of the effect of human complement in the cytotoxic test to the origin of the HLA serum] Májský A. **Vnitr Lek** 1989 Nov;35(11):1102–5 (Eng. Abstr.) (Cze)

[Protective immunity against infections] Nomoto K. **Tanpakushitsu Kakusan Koso** 1990 Jul;35(9):1585–91 (Jpn)

[Analysis serum complement activity in infants during their first year of life] Grigorek Kh, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):38–40 (Rus)

[Status of nonspecific defense factors in patients with chronic myeloproliferative diseases] Shardakov VI, et al. **Gematol Transfuziol** 1990 Jun;35(6):22–4 (Eng. Abstr.) (Rus)

METABOLISM

Changes in complement components after intravascular application of contrast media. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247B:585–9

Complement in pericardial fluid of lupus erythematosus. Studies in two patients. Hunder GG, et al. **Ann Intern Med** 1974 Apr;80(4):453–8

Correlations between serum lipids and complement components in adults without demonstrated atherosclerotic disease. Muscari A, et al. **Atherosclerosis** 1990 Mar; 81(2):111–8

Functional properties of membrane cofactor protein of complement. Seya T, et al. **Biochem J** 1989 Dec 1; 264(2):581–8

The effects of capsaicin denervation on leucocyte and complement components of the inflammatory response. Helme RD, et al. **Clin Exp Neurol** 1987;24:207–11

Complement and complement receptors. Ross GD. **Curr Opin Immunol** 1989 Oct;2(1):50–62 (84 ref.)

Several epitopes on native human complement C9 are involved in interaction with the C5b-8 complex and other C9 molecules. Kontermann R, et al. **Eur J Immunol** 1990 Mar;20(3):623–8

Distribution of complement in the sclera. Brawman-Mintzer O, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2240–4

Regulatory control of complement on blood platelets. Modulation of platelet procoagulant responses by a membrane inhibitor of the C5b-9 complex. Sims PJ, et al. **J Biol Chem** 1989 Nov 15;264(32):19228–35

The complement SC5b-9 complex mediates cell adhesion through a vitronectin receptor. Biesecker G. **J Immunol** 1990 Jul 1;145(1):209–14

Activation of the complement system during immunotherapy with recombinant IL-2. Relation to the development of side effects. Thijs LG, et al. **J Immunol** 1990 Mar 15; 144(6):2419–24

Strong interaction of lipopolysaccharides possessing the mannose homopolysaccharides with complement and its relation to adjuvant action. Yokochi T, et al. **J Immunol** 1990 Apr 15;144(8):3106–10

Accumulation of anaphylatoxins and terminal complement complexes in inflammatory fluids. Bengtsson A, et al. **J Intern Med** 1990 Aug;228(2):173–6

The complement system in the acute phase of myocardial infarction. Yasuda M, et al. **Jpn Circ J** 1989 Sep; 53(9):1017–22

Serum complement activity and serum enzymes in rats after a subcutaneous injection of toxin prepared from Pasteurella multocida type D. Thurston JR, et al. **Vet Immunol Immunopathol** 1989 Dec;23(3–4):385–8

[Plasma levels of complement fragments during hemodialysis in patients with chronic renal failure] Ueda M, et al. **Nippon Jinzo Gakkai Shi** 1990 Jan;32(1):19–24 (Eng. Abstr.) (Jpn)

[Sequential changes in serum complement after aneurysmal subarachnoid hemorrhage] Kawano T, et al. **No Shinkei Geka** 1990 Feb;18(2):145–52 (Eng. Abstr.) (Jpn)

[Changes in lymphocyte subsets, neutrophil function and complement levels in patients with complications following open heart surgery] Sakai H, et al. **Rinsho Byori** 1990 Mar; 38(3):295–300 (Eng. Abstr.) (Jpn)

[The biophysical chemistry of complement-fixing DNA-anti-DNA immune complexes] Taylor RP. **Ter Arkh** 1990;62(5):27–32 (12 ref.) (Rus)

PHARMACOLOGY

Effect of decay-accelerating factor on the assembly of the classical and alternative pathway C3 convertases in the presence of C4 or C3 nephritic factor. Ito S, et al. **Immunology** 1989 Dec;68(4):449–52

Effect of the late complement components C5b-9 and of platelet-derived growth factor on the prostaglandin release of human synovial fibroblast-like cells. von Kempis J, et al. **Int Arch Allergy Appl Immunol** 1989;90(3):248–55

Fluid phase generation of terminal complement complex as a novel index of bioincompatibility. Deppisch R, et al. **Kidney Int** 1990 Feb;37(2):696–706 (51 ref.)

C5b-8 and C5b-9 modulate the collagen release of human glomerular epithelial cells. Torbohm I, et al. **Kidney Int** 1990 Apr;37(4):1098–104

Aplastic anemia: lack of increase of in vitro colony formation after T cell depletion with monoclonal antibodies and complement. Kojima S, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Sep;52(6):965–71

Oligodendrocytes and oligodendrocyte/type-2 astrocyte progenitor cells of adult rats are specifically susceptible to the lytic effects of complement in absence of antibody. Wren DR, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):9025–9

PHYSIOLOGY

Inhibition of leukocyte chemotaxis by serum factor in diabetes mellitus: selective depression of cell responses mediated by complement-derived chemoattractants. Sannomiya P, et al. **Agents Actions** 1990 Jun;30(3–4):369–76

Complement C5b-9 complex activates phospholipases in glomerular epithelial cells. Cybulsky AV, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):F826–36

Functions and relevance of the terminal complement sequence. Bhakdi S, et al. **Blut** 1990 Jun;60(6):309–18 (64 ref.)

Does non-enzymatic glycosylation affect complement function in diabetes? Peake PW, et al. **Diabetes Res** 1989 Jul;11(3):109–14

Role of serum complement, immunoglobulins, and cell-mediated immune system in the pathogenesis of spontaneous bacterial peritonitis (SBP). Rabinovitz M, et al. **Dig Dis Sci** 1989 Oct;34(10):1547–52

Complement-dependent antibody-mediated cytotoxicity in the spontaneously diabetic BB/OK rat: association with beta cell volume density. Hehmke B, et al. **Eur J Immunol** 1990 May;20(5):1091–6

Complement regulation on the surface of cultured schistosomula and adult worms of Schistosoma mansoni. Marikovsky M, et al. **Eur J Immunol** 1990 Jan;20(1):221–7

The role of the complement system in shock and tissue injury induced by tumour necrosis factor and endotoxin. Hsueh W, et al. **Immunology** 1990 Jul;70(3):309–14

Resistance of highly pathogenic Naegleria fowleri amoebae to complement-mediated lysis. Whiteman LY, et al. **Infect Immun** 1989 Dec;57(12):3869–75

Alterations in complement-induced shape change and stimulus-specific superoxide anion generation by neonatal calf neutrophils. Holden W, et al. **Inflammation** 1989 Dec; 13(6):607–20

Anti-IgE- and complement-induced histamine release from peripheral leukocytes in normals and atopics. Stephan V, et al. **Int Arch Allergy Appl Immunol** 1989;90(4):326–30

Heat-labile, complement-like factor(s) of animal sera prevent(s) HIV-1 infectivity in vitro. Hosoi S, et al. **J Acquir Immune Defic Syndr** 1990;3(4):366–71

Platelet-activating factor enhances complement-dependent phagocytosis of diamide-treated erythrocytes by human monocytes through activation of protein kinase C and phosphorylation of complement receptor type one (CR1). Bussolino F, et al. **J Biol Chem** 1989 Dec 25; 264(36):21711–9

Role of complement in mouse macrophage binding of Haemophilus influenzae type b. Noel GJ, et al. **J Clin Invest** 1990 Jan;85(1):208–18

Mouse strains with typical mammalian levels of complement activity. Ong GL, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):147–58

Phototoxic erythema following PUVA treatment: independence of complement. Rauterberg AD, et al. **J Invest Dermatol** 1990 Jan;94(1):144–9

Effects of complement depletion on glomerular eicosanoid production and renal hemodynamics in rat nephrotoxic serum nephritis. Garcia-Estan J, et al. **J Lab Clin Med** 1989 Oct;114(4):389–93

Ammonia-complement interaction in the pathogenesis of progressive renal injury. Nath KA, et al. **Kidney Int Suppl** 1989 Nov;27:S52–4

What's new in the role of complement in diseases? Kay PH, et al. **Pathol Res Pract** 1990 Jun;186(3):410–4 (33 ref.)

Stimulation of arachidonate metabolism by endotoxin and the terminal complement complex C5b-8. Suttorp N, et al. **Prog Clin Biol Res** 1989;301:217–21

Biochemistry and biology of the complement system in domestic animals. Linscott WD. **Prog Vet Microbiol Immunol** 1986;2:54–77 (125 ref.)

The role of complement in immunohematology. Giles CM. **Transfusion** 1989 Nov–Dec;29(9):803–11 (74 ref.)

[Functions and relevance of the terminal complement sequence] Bhakdi S, et al. **Immun Infekt** 1990 Jun;18(3):71–9 (64 ref.) (Eng. Abstr.) (Ger)

[The complement system—a fascinating biological cascade. 1—physiologic aspects] Mollnes TE. **Tidsskr Nor Laegeforen** 1989 Sep 30;109(27):2782–8 (Eng. Abstr.) (Nor)

[The complement system—a fascinating biological cascade.

2--clinical aspects] Mollnes TE. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2891–6 (Eng. Abstr.) **(Nor)**
[Evaluation of the functional state of the complement and fibrinolysis systems] Tiutrin II, et al. **Lab Delo** 1989; (12):43–5 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Monoclonal antibody 55 (CD10) and complement used for purging autologous bone marrow in common acute lymphoblastic leukemia. Bai Y, et al.
Chin Med J [Engl] 1990 May;103(5):385–90
Efficacy of bone marrow purging in AML using monoclonal antibodies and complement. Mills LE, et al.
Prog Clin Biol Res 1990;333:165–70
Elimination of chemoresistant myeloma clonogenic cells from human bone marrow by monoclonal antibody and complement. Tong AW, et al. **Prog Clin Biol Res** 1990; 333:155–64

ULTRASTRUCTURE

Comparison of channels formed by poly C9, C5b–8 and the membrane attack complex of complement. Zalman LS, et al. **Mol Immunol** 1990 Jun;27(6):533–7

COMPLEMENT 1

C1. The first component of complement: the subcomponents of C1q, C1r, C1s, C1-inhibitor, C1q-receptors. Dedicated to Prof. Paul G. Klein. **Behring Inst Mitt** 1989 Jul; (84):1–254
Histories and mysteries about C1. Borsos T.
Behring Inst Mitt 1989 Jul;(84):1–7 (72 ref.)
Models for C1. Tools or toys? The real biological challenge. Colomb MG, et al. **Behring Inst Mitt** 1989 Jul;(84):121–8 (34 ref.)
Models for the C1 complex determined by physical techniques. Perkins SJ. **Behring Inst Mitt** 1989 Jul; (84):129–41 (28 ref.)

ANALYSIS

C1q and C1 subcomponent complexes in otitis-prone and non-otitis-prone children. A prospective study of children during their first years of life. Prellner K, et al.
Acta Paediatr Scand 1989 Nov;78(6):911–7
Specific, sensitive, precise, and rapid functional chromogenic assay of activated first complement component (C1) in plasma. Munkvad S, et al. **Clin Chem** 1990 Jul;36(7):1305–11

BIOSYNTHESIS

Identification of a human non-interferon lymphokine activating monocyte complement biosynthesis. Drouet C, et al. **Biochem J** 1989 Oct 1;263(1):157–64

DEFICIENCY

Deficiency of the first component of human complement. Reid KB. **Immunodefic Rev** 1989;1(3):247–60 (60 ref.)

GENETICS

Duplication and divergence of the amino-terminal coding region of the complement receptor 1 (CR1) gene. An example of concerted (horizontal) evolution within a gene. Hourcade D, et al. **J Biol Chem** 1990 Jan 15;265(2):974–80

METABOLISM

Interaction of fluid phase C1/C1q and macrophage membrane-associated C1q with gram-negative bacteria. Clas F, et al. **Behring Inst Mitt** 1989 Jul;(84):236–54 (71 ref.)
Spontaneous activation of reconstituted and serum C1 and the role of C1-inhibitor. Schumaker VN, et al.
Behring Inst Mitt 1989 Jul;(84):102–10
NH2-terminal calcium-binding domain of human complement C1s- mediates the interaction of C1r- with C1q. Busby TF, et al. **Biochemistry** 1990 May 15; 29(19):4613–8
C1 binding by mouse IgM. The effect of abnormal glycosylation at position 402 resulting from a serine to asparagine exchange at residue 406 of the mu-chain. Wright JF, et al. **J Biol Chem** 1990 Jun 25;265(18):10506–13
Acceleration of site-to-site transfer of C1- by a monoclonal antibody to C1-s. Matsumoto M, et al. **Mol Immunol** 1989 Aug;26(8):697–703
[Stepwise dissociation of subcomponents of C1, the first component of human complement, upon activation on an affinity sorbent] Kozlov LV, et al. **Biokhimiia** 1989 Oct; 54(10):1745–51 (Eng. Abstr.) **(Rus)**

COMPLEMENT 1 ESTERASE see COMPLEMENT 1S

COMPLEMENT 1 INACTIVATORS

Structure and function of C1 inhibitor. Davis AE 3d.
Behring Inst Mitt 1989 Jul;(84):142–50 (91 ref.)
Two-domain structure of the native and reactive centre cleaved forms of C1 inhibitor of human complement by neutron scattering. Perkins SJ, et al. **J Mol Biol** 1990 Aug 5;214(3):751–63

ANALYSIS

A new analytical system for the proteases and antiproteases assessment. Boulanger J, et al. **Adv Exp Med Biol** 1989; 247B:255–9
Binding of a monoclonal anti-human plasma prekallikrein antibody to the complexes of kallikrein with C1-inhibitor and alpha 2-macroglobulin analyzed by immunoblot and "sandwich" assays. Veloso D, et al. **Adv Exp Med Biol** 1989;247A:499–505
Studies on components of the contact phase system in patients with advanced gastrointestinal cancer. Roeise O, et al.
Cancer 1990 Mar 15;65(6):1355–9
Functional determination of C1 esterase inhibitor in fractions derived from plasma. Benny AG, et al.
Haematologia (Budap) 1989;22(3):189–93
Plasma levels of C1- inhibitor complexes and cleaved C1-inhibitor in patients with hereditary angioneurotic edema. Cugno M, et al. **J Clin Invest** 1990 Apr;85(4):1215–20
Trimer and tetramer complexes containing C1 esterase inhibitor, C1r and C1s, in serum and synovial fluid of patients with rheumatic disease. Laurell AB, et al.
J Immunol Methods 1990 May 8;129(1):55–61
Methylprednisolone induces activation of the contact system in a dose-dependent manner. An in vitro study. Roeise O, et al. **Thromb Res** 1990 Mar 15;57(6):877–88
[Clinical significance of C6, C7, C9 and C1-INH analysis] Akagaki Y, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:662–5 **(Jpn)**
[Clinical significance of C1-esterase inhibitor analysis in biochemical laboratory tests] Uchida K, et al.
Nippon Rinsho 1989 Dec;48 Suppl:240–2 **(Jpn)**

BIOSYNTHESIS

Regulation of C1-inhibitor synthesis by interferons and other agents. Lappin D, et al. **Behring Inst Mitt** 1989 Jul; (84):180–92 (87 ref.)
Synthesis and expression of C1 inhibitor by human umbilical vein endothelial cells. Schmaier AH, et al. **J Biol Chem** 1989 Oct 25;264(30):18173–9
Regulation of the hepatic synthesis of C1 inhibitor by the hepatocyte stimulating factors interleukin 6 and interferon gamma. Zuraw BL, et al. **J Biol Chem** 1990 Jul 25; 265(21):12664–70
Hormonal regulation of complement biosynthesis in human cell lines--I. Androgens and gamma-interferon stimulate the biosynthesis and gene expression of C1 inhibitor in human cell lines U937 and HepG2. Falus A, et al.
Mol Immunol 1990 Feb;27(2):191–5
Hormonal regulation of complement biosynthesis in human cell lines--II. Upregulation of the biosynthesis of complement components C3, factor B and C1 inhibitor by interleukin-6 and interleukin-1 in human hepatoma cell line. Falus A, et al. **Mol Immunol** 1990 Feb;27(2):197–201

BLOOD

Serum C1-esterase inhibitor, an essential and independent prognosticator of gastric carcinoma. Janssen CW Jr, et al.
Br J Cancer 1989 Oct;60(4):589–91

DEFICIENCY

The acquired C1-INH deficiencies with autoantibodies (AAE type II). Alsenz J, et al. **Behring Inst Mitt** 1989 Jul;(84):165–72 (31 ref.)
C1-inhibitor in hereditary angioneurotic edema: types I and II. Donaldson VH. **Behring Inst Mitt** 1989 Jul;(84):151–60 (46 ref.)
Acquired C1-inhibitor deficiency. Frank M.
Behring Inst Mitt 1989 Jul;(84):161–4 (24 ref.)
Molecular defects of the C1-inhibitor gene in hereditary angioedema. Tosi M, et al. **Behring Inst Mitt** 1989 Jul; (84):173–9 (24 ref.)
Lymphocytic lymphoma and acquired C1 esterase inhibitor deficiency. Richardson SG, et al. **Br J Dermatol** 1989 Jan; 120(1):121–4
Acquired C1 inhibitor deficiency: postmortem diagnosis. Fivenson DP, et al. **Dermatologica** 1990;180(3):133–5
Hereditary and acquired deficiencies of C1 inhibitor. Davis AE 3d. **Immunodefic Rev** 1989;1(3):207–26 (171 ref.)
Angioedema with acquired deficiency of the C1 inhibitor: a constellation of syndromes. Frigas E. **Mayo Clin Proc** 1989 Oct;64(10):1269–75 (32 ref.)
Hereditary angioedema due to deficit of C1 esterase inhibitor. Zeana C. **Med Interne** 1989 Apr-Jun;27(2):143–7
Hereditary angioedema: diagnosis and management. Chng HH, et al. **Singapore Med J** 1990 Apr;31(2):177–9
[Hereditary angioedema] Sabbah A, et al.
Allerg Immunol (Paris) 1989 Oct;21(8):297–300 (Eng. Abstr.) **(Fre)**
[Hereditary angioedema due to C1-esterase inhibitor deficiency] Zeană C. **Rev Med Interna [Med Interna]** 1989 Sep-Oct;41(5):467–71 (Eng. Abstr.) **(Rum)**

GENETICS

Modulation by interferons of the expression of monocyte complement genes. Lappin DF, et al. **Biochem J** 1990 Jun 1;268(2):387–92
Identification of a new P1 residue mutation (444Arg——Ser) in a dysfunctional C1 inhibitor protein contained in a type II hereditary angioedema plasma. Aulak KS, et al.
FEBS Lett 1990 Jun 18;266(1-2):13–6
Regional assignment of the human C1-inhibitor gene to 11q11-q13.1. Theriault A, et al. **Hum Genet** 1990 Apr; 84(5):477–9
Type II hereditary angioneurotic edema that may result from a single nucleotide change in the codon for alanine-436 in the C1 inhibitor gene. Levy NJ, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(1):265–8
Dysfunctional C1 inhibitor Ta: deletion of Lys-251 results in acquisition of an N-glycosylation site. Parad RB, et al.
Proc Natl Acad Sci U S A 1990 Sep;87(17):6786–90
Clusters of intragenic Alu repeats predispose the human C1 inhibitor locus to deleterious rearrangements.
Stoppa-Lyonnet D, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1551–5

IMMUNOLOGY

Antigenic structure of human C1 esterase inhibitor, factor H and factor B. Bauer K. **Exp Clin Immmunogenet** 1986; 3(4):224–9

METABOLISM

Complexing of tissue plasminogen activator with PAI-1, alpha 2-macroglobulin, and C1-inhibitor: studies in patients with defibrination and a fibrinolytic state after electroshock or complicated labor. Bennett B, et al. **Blood** 1990 Feb 1;75(3):671–6
Interactions of C1(-)-inhibitors from normal persons and patients with type II hereditary angioneurotic edema with purified activated Hageman factor (factor XIIa). Donaldson VH, et al. **Blood** 1990 Feb 15;75(4):911–21
Interferon gamma increases in vitro and in vivo expression of C1 inhibitor. Heda GD, et al. **Blood** 1990 Jun 15; 75(12):2401–7
Limited proteolysis of C1-inhibitor by chymotrypsin-like proteinases. Schoenberger OL, et al. **FEBS Lett** 1989 Dec 18;259(1):165–7
Alterations in C1 inhibitor and clotting factor concentrations in primary biliary cirrhosis and other chronic liver diseases. Danielsson A, et al. **Scand J Gastroenterol** 1990 Feb; 25(2):149–54
Methylprednisolone affects inhibitors of the complement and the contact systems; functional and immunochemical studies on alpha 2-macroglobulin and C1 inhibitor. Roeise O, et al. **Thromb Res** 1989 Dec 15;56(6):697–708

PHYSIOLOGY

In vivo function of C1-inhibitor and pathophysiology of edema attack in patients with hereditary angioneurotic edema. Kodama J, et al. **Adv Exp Med Biol** 1989; 247B:79–86
Spontaneous activation of reconstituted and serum C1 and the role of C1-inhibitor. Schumaker VN, et al.
Behring Inst Mitt 1989 Jul;(84):102–10
[A case of hereditary angioneurotic edema provoked by functional insufficiency of C1-inactivator] Didkovskil NA, et al. **Ter Arkh** 1989;61(6):116–9 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Elastase release in plasma with increased C1-inhibition capacity during recirculation of blood. Heller W, et al.
Adv Exp Med Biol 1989;247B:579–84
Use of purified C1 esterase inhibitor in patients with hereditary angioedema [letter; comment] Laxenaire MC, et al. **Anesthesiology** 1990 May;72(5):956–7 Comment on: Anesthesiology 1989 Aug;71(2):309–11.
[Hereditary angioedema--substitution therapy with C1-inhibitor concentrate] Wüthrich B. **Hautarzt** 1989 Oct; 40(10):651 **(Ger)**
[New possibilities of treating acute angioedema caused by C1-inhibitor deficiency] Obtułowicz K, et al.
Pol Tyg Lek 1989 Jul 3;44(27):646–8 (Eng. Abstr.) **(Pol)**

COMPLEMENT 1 INHIBITORS see COMPLEMENT 1 INACTIVATORS

COMPLEMENT 1Q

Characterization of the human C1q receptor. Erdei A, et al. **Behring Inst Mitt** 1989 Jul;(84):216–9 (12 ref.)
Carbodiimide crosslinking of human C1q and rabbit IgG. Wines BD, et al. **Mol Immunol** 1990 Mar;27(3):221–6

ANALYSIS

C1q and C1 subcomponent complexes in otitis-prone and non-otitis-prone children. A prospective study of children during their first years of life. Prellner K, et al.
Acta Paediatr Scand 1989 Nov;78(6):911–7
Circulating immune complexes in sickle cell-beta zero thalassemia. Donadi EA, et al. **Braz J Med Biol Res** 1989; 22(10):1255–7
[Clinical significance of C1q assay] Sasaki T, et al.
Nippon Rinsho 1990 Feb;48 Suppl:637–40 **(Jpn)**
[Use of solid-phase C1q-ELISA for detecting circulating immune complexes in human diseases] Aleshkin VA, et al. **Ter Arkh** 1989;61(6):113–6 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

The biosynthesis of C1q, the collagen-like and Fc-recognizing molecule of the complement system. Loos M, et al. **Behring Inst Mitt** 1989 Jul;(84):32–41 (49 ref.)

DEFICIENCY

Family study of natural killer cell activity in C1q-deficient patients with systemic lupus erythematosus-like syndrome: association between impaired natural killer cell function and C1q deficiency. Tóth J, et al. **Immunobiology** 1989 Nov; 180(1):47-54

DIAGNOSTIC USE

Rapid identification and typing of herpes simplex virus by a new enzyme immunoassay with peroxidase-labeled complement C1q. Lee SM, et al. **Arch Virol** 1989; 108(3-4):247-57

GENETICS

Chemistry and molecular genetics of C1q. Reid KB. **Behring Inst Mitt** 1989 Jul;(84):8-19 (50 ref.)

Molecular cloning and characterization of the complementary DNA coding for the B-chain of murine Clq. Petry F, et al. **FEBS Lett** 1989 Nov 20;258(1):89-93

IMMUNOLOGY

Interaction of bacterial endotoxin (LPS) with fluid phase and macrophage membrane associated C1Q. The FC-recognizing component of the complement system. Loos M, et al. **Adv Exp Med Biol** 1990;256:301-17

IgG subclasses of antibodies to the collagen-like region of C1q in patients with systemic lupus erythematosus. Uwatoko S, et al. **Arthritis Rheum** 1989 Dec;32(12):1601-3

Significance of C1q-binding macromolecules within the head and neck cancer patient. Schantz SP, et al. **Cancer Res** 1990 Jul 15;50(14):4349-54

Monoclonal antibodies to complement components without the need of their prior purification. I. Antibodies to mouse C1q. Wasiliu M, et al. **Hybridoma** 1989 Dec;8(6):615-22

Transplantation tolerance following conditioning with C1q-affinity anti-Thy-1 monoclonal antibodies. Thierfelder S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):459-61

[Clinical significance of anti-C1q antibody] Ohtani H. **Nippon Rinsho** 1990 Feb;48 Suppl:485-6 **(Jpn)**

METABOLISM

Complement components in neonatal sepsis. Singh RP, et al. **Ann Trop Paediatr** 1990 Mar;10(1):35-7

Elevation by muroctasin of the serum level of the complement subcomponent C1q in mice and of its biosynthesis by cultured mouse peritoneal macrophages. Endo N, et al. **Arzneimittelforschung** 1990 Jan;40(1):58-61

Interaction of fluid phase C1/C1q and macrophage membrane-associated C1q with gram-negative bacteria. Clas F, et al. **Behring Inst Mitt** 1989 Jul;(84):236-54 (71 ref.)

Possible mechanisms of degradation of C1q in vivo and in vitro: role of macrophages. Daha MR. **Behring Inst Mitt** 1989 Jul;(84):42-6 (15 ref.)

C1q interactions with cell surface receptors. Tenner AJ. **Behring Inst Mitt** 1989 Jul;(84):220-9 (53 ref.)

Complement activation by immunoglobulin does not depend solely on C1q binding. Bindon CI, et al. **Eur J Immunol** 1990 Feb;20(2):277-81

Substitution of asparagine324 with aspartic acid in the Fc portion of mouse antibodies reduces their capacity for C1q binding. Nose M, et al. **Eur J Immunol** 1989 Nov; 19(11):2179-81

C1q binding to chimeric monoclonal IgG3 antibodies consisting of mouse variable regions and human constant regions with shortened hinge containing 15 to 47 amino acids. Sandlie I, et al. **Eur J Immunol** 1989 Sep; 19(9):1599-603

C1q binding to human vascular smooth muscle cells mediates immune complex deposition and superoxide generation. Shingu M, et al. **Inflammation** 1989 Oct;13(5):561-9

Protective and inactivating effects of neutrophil myeloperoxidase on C1q activity. Zabucchi G, et al. **Inflammation** 1990 Feb;14(1):41-53

C3, C4, and the terminal complement complex differ from C1q by binding predominantly to the antigenic part of solid phase immune complexes. Garred P, et al. **J Immunol** 1990 Jan 1;144(1):198-203

Binding of the pentamer/hexamer forms of mannan-binding protein to zymosan activates the proenzyme C1r2C1s2 complex, of the classical pathway of complement, without involvement of C1q. Lu JH, et al. **J Immunol** 1990 Mar 15;144(6):2287-94

The location of binding sites on C1q for DNA. Uwatoko S, et al. **J Immunol** 1990 May 1;144(9):3484-8

Single-step purification of immunoglobulin M on C1q-Sepharose [published erratum appears in J Immunol Methods 1990 Jul 3;130(2):287] Nethery A, et al. **J Immunol Methods** 1990 Jan 24;126(1):57-60

Influence of the hinge region on complement activation, C1q binding, and segmental flexibility in chimeric human immunoglobulins. Tan LK, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):162-6

[Clinical significance of C1q binding assay] Amano T, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:689-92 **(Jpn)**

PHARMACOLOGY

Enhancing effect of C1q on IgG monoclonal antibody binding to hapten. Hamada A, et al. **Int Arch Allergy Appl Immunol** 1990;91(1):103-7

Enhanced Ig production by human peripheral lymphocytes induced by aggregated C1q. Daha MR, et al. **J Immunol** 1990 Feb 15;144(4):1227-32

Exogenous C1q reconstitutes resident but not inflammatory mouse peritoneal macrophages for Fc receptor-dependent cellular cytotoxicity and phagocytosis. Relationship to endogenous C1q availability. Leu RW, et al. **J Immunol** 1989 Nov 15;143(10):3250-7

PHYSIOLOGY

Functions associated with the C1q receptor. Ghebrehiwet B. **Behring Inst Mitt** 1989 Jul;(84):204-15 (50 ref.)

Biological functions of C1q expressed by conformational changes. Heinz HP. **Behring Inst Mitt** 1989 Jul;(84):20-31 (18 ref.)

Interaction of C1q with its receptor on cultured cell lines induces an anti-proliferative response. Ghebrehiwet B, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):148-60

Complement component C1q enhances invasion of human mononuclear phagocytes and fibroblasts by Trypanosoma cruzi trypomastigotes. Rimoldi MT, et al. **J Clin Invest** 1989 Dec;84(6):1982-9

Inhibitors of C1q biosynthesis suppress activation of murine macrophages for both antibody-independent and antibody-dependent tumor cytotoxicity. Leu RW, et al. **J Immunol** 1990 Mar 15;144(6):2281-6

URINE

Significance of urinary complement components in various glomerular diseases. Sakakibara K, et al. **Thromb Res** 1990 Feb 15;57(4):625-37

COMPLEMENT 1R

The structures of human C1r and C1s and their relationship to other serine proteases. Fothergill J, et al. **Behring Inst Mitt** 1989 Jul;(84):72-9 (28 ref.)

The quaternary structure in solution of human complement subcomponent C1r2C1s2. Perkins SJ, et al. **Biochem J** 1989 Oct 15;263(2):463-9

ANALYSIS

An improved method for complement subcomponent C1R typing. Kamboh MI, et al. **J Forensic Sci** 1990 Jan; 35(1):190-2

Trimer and tetramer complexes containing C1 esterase inhibitor, C1r and C1s, in serum and synovial fluid of patients with rheumatic disease. Laurell AB, et al. **J Immunol Methods** 1990 May 8;129(1):55-61

BIOSYNTHESIS

Biosynthesis of C1r and C1s subcomponents. Drouet C, et al. **Behring Inst Mitt** 1989 Jul;(84):80-8 (26 ref.)

GENETICS

Structure and function of C1r and C1s: current concepts. Arlaud GJ, et al. **Behring Inst Mitt** 1989 Jul;(84):56-64 (52 ref.)

Human complement C1r and C1s proteins and genes: studies with molecular probes. Tosi M, et al. **Behring Inst Mitt** 1989 Jul;(84):65-71 (21 ref.)

Ecdysteroids increase the yield of recombinant protein produced in baculovirus insect cell expression system. Sárvári M, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1154-61

Complement genes C1r and C1s feature an intronless serine protease domain closely related to haptoglobin. Tosi M, et al. **J Mol Biol** 1989 Aug 20;208(4):709-14

METABOLISM

Ca2+ binding properties and Ca2(+)-dependent interactions of the isolated NH2-terminal alpha fragments of human complement proteases C1-r and C1-s. Thielens NM, et al. **J Biol Chem** 1990 Aug 25;265(24):14469-75

Binding of the pentamer/hexamer forms of mannan-binding protein to zymosan activates the proenzyme C1r2C1s2 complex, of the classical pathway of complement, without involvement of C1q. Lu JH, et al. **J Immunol** 1990 Mar 15;144(6):2287-94

PHYSIOLOGY

Expression of hemolytically active human complement component C1r proenzyme in insect cells using a baculovirus vector. Gál P, et al. **Complement Inflamm** 1989; 6(6):433-41

ULTRASTRUCTURE

Neutron scattering study of the (gamma-B) catalytic domains of complement proteases activated C1r and C1s. Zaccaï G, et al. **FEBS Lett** 1990 Aug 20;269(1):19-22

COMPLEMENT 1S

The structures of human C1r and C1s and their relationship to other serine proteases. Fothergill J, et al. **Behring Inst Mitt** 1989 Jul;(84):72-9 (28 ref.)

The quaternary structure in solution of human complement subcomponent C1r2C1s2. Perkins SJ, et al. **Biochem J** 1989 Oct 15;263(2):463-9

ANALYSIS

Trimer and tetramer complexes containing C1 esterase inhibitor, C1r and C1s, in serum and synovial fluid of patients with rheumatic disease. Laurell AB, et al. **J Immunol Methods** 1990 May 8;129(1):55-61

ANTAGONISTS & INHIBITORS

Studies on the inhibition of plasma kallikrein, C1-esterase and beta-FXIIa in the presence and the absence of heparins. Fuhrer G, et al. **Adv Exp Med Biol** 1989;247B:61-6

Hereditary angioedema: therapeutic effect of danazol on C4 and C1 esterase inhibitors. Fabiani JE, et al. **Ann Allergy** 1990 Apr;64(4):388-92

Effects of methylamine and heparin on a rapid chromogenic assay of C1-esterase inhibitor in plasma. Munkvad S, et al. **Clin Chem** 1990 May;36(5):737-41

Functional determination of C1 esterase inhibitor in fractions derived from plasma. Benny AG, et al. **Haematologia (Budap)** 1989;22(3):189-93

Acquired C1 esterase inhibitor deficiency as manifestation of T-cell lymphoproliferative disorder [letter] Grace RJ, et al. **Lancet** 1990 Jul 14;336(8707):118

[Hereditary angioedema] Sabbah A, et al. **Allerg Immunol (Paris)** 1989 Oct;21(8):297-300 (Eng. Abstr.) **(Fre)**

[Hereditary angioedema due to C1-esterase inhibitor deficiency] Zeană C. **Rev Med Interna [Med Interna]** 1989 Sep-Oct;41(5):467-71 (Eng. Abstr.) **(Rum)**

BIOSYNTHESIS

Biosynthesis of C1r and C1s subcomponents. Drouet C, et al. **Behring Inst Mitt** 1989 Jul;(84):80-8 (26 ref.)

DEFICIENCY

Acquired C1 esterase inhibitor deficiency as manifestation of T-cell lymphoproliferative disorder [letter] Grace RJ, et al. **Lancet** 1990 Jul 14;336(8707):118

GENETICS

Structure and function of C1r and C1s: current concepts. Arlaud GJ, et al. **Behring Inst Mitt** 1989 Jul;(84):56-64 (52 ref.)

Human complement C1r and C1s proteins and genes: studies with molecular probes. Tosi M, et al. **Behring Inst Mitt** 1989 Jul;(84):65-71 (21 ref.)

Chemical and functional characterization of a fragment of C1-s containing the epidermal growth factor homology region. Thielens NM, et al. **Biochemistry** 1990 Apr 10; 29(14):3570-8

Complement genes C1r and C1s feature an intronless serine protease domain closely related to haptoglobin. Tosi M, et al. **J Mol Biol** 1989 Aug 20;208(4):709-14

METABOLISM

Alternative complement pathway in hypocomplementemic/normal C1s-C1 inhibitor complex patients with SLE. Levy RA, et al. **Clin Exp Rheumatol** 1990 Jan-Feb;8(1):11-5

Limited proteolysis of beta 2-microglobulin at Lys-58 by complement component C1s. Nissen MH, et al. **Eur J Biochem** 1990 Apr 30;189(2):423-9

Degradation of type I and II collagen by human activated C1-s. Yamaguchi K, et al. **FEBS Lett** 1990 Jul 30; 268(1):206-8

Ca2+ binding properties and Ca2(+)-dependent interactions of the isolated NH2-terminal alpha fragments of human complement proteases C1-r and C1-s. Thielens NM, et al. **J Biol Chem** 1990 Aug 25;265(24):14469-75

Binding of the pentamer/hexamer forms of mannan-binding protein to zymosan activates the proenzyme C1r2C1s2 complex, of the classical pathway of complement, without involvement of C1q. Lu JH, et al. **J Immunol** 1990 Mar 15;144(6):2287-94

PHARMACOLOGY

Proteolysis of the heavy chain of major histocompatibility complex class I antigens by complement component C1s. Eriksson H, et al. **Biochim Biophys Acta** 1990 Feb 9; 1037(2):209-15

ULTRASTRUCTURE

Neutron scattering study of the (gamma-B) catalytic domains of complement proteases activated C1r and C1s. Zaccaï G, et al. **FEBS Lett** 1990 Aug 20;269(1):19-22

COMPLEMENT 2

ANALYSIS

Serum complement C2 levels in patients suffering from cystic fibrosis (CF). László A, et al. **Acta Paediatr Hung** 1988-89; 29(3-4):289-92

Synthetic factor VIII peptides with amino acid sequences contained within the C2 domain of factor VIII inhibit factor VIII binding to phosphatidylserine. Foster PA, et al. **Blood** 1990 May 15;75(10):1999-2004

[Clinical significance of the second component of

complement assay] Takemura S. **Nippon Rinsho** 1990 Feb; 48 Suppl:647–9 (Jpn)

DEFICIENCY

Increased amounts of C4–containing immune complexes and inefficient activation of C3 and the terminal complement pathway in a patient with homozygous C2 deficiency and systemic lupus erythematosus. Garred P, et al. **Scand J Immunol** 1990 Jan;31(1):59–64

[Fatal pneumococcal meningitis in a 1–year–old child with homozygous C2 deficiency] Glöckel U, et al. **Monatsschr Kinderheilkd** 1990 Jul;138(7):399–402 (Eng. Abstr.) (Ger)

GENETICS

Allelic associations of multiple RFLPs of the gene encoding complement protein C2. Zhu ZB, et al. **Am J Hum Genet** 1990 May;46(5):956–62

Studies of a C2 DNA polymorphism in RA, Felty's and normal subjects. Clarkson R, et al. **Exp Clin Immunogenet** 1990;7(1):64–8

DNA polymorphism of the C2 and factor B gene. Cross SJ, et al. **Exp Clin Immunogenet** 1990;7(1):53–63

Enhanced resolution of the SstI polymorphic variants of the C2 locus: description of a new size class. Ratanachaiyavong S, et al. **Hum Immunol** 1989 Dec;26(4):310–20

Restriction fragment length polymorphism analysis of factor B and C2 genes in H–2 recombinant mouse strains. Lafuse WP, et al. **Immunogenetics** 1990;31(4):275–7

Complement C2, C3, C4 and factor B allele distribution in the Gipsy population in Hungary. Kramer J, et al. **Immunol Lett** 1990 Mar–Apr;24(1):11–2

Translational regulation of complement protein C2 expression by differential utilization of the 5'–untranslated region of mRNA. Horiuchi T, et al. **J Biol Chem** 1990 Apr 25; 265(12):6521–4

Genetic polymorphism of MHC class III and GLO in Chinese Yao nationality. Wang C, et al. **J Tongji Med Univ** 1990;10(1):37–42

[Genetic polymorphism of the second component of human complement (C2) in the Han Nationality in Wuhan district of China] Tian YW, et al. **I Chuan Hsueh Pao** 1989; 16(3):226–9 (Eng. Abstr.) (Chi)

COMPLEMENT 3

Adsorption of unactivated complement proteins by hemodialysis membranes. Cheung AK. **Am J Kidney Dis** 1989 Dec;14(6):472–7

The third component of complement. Chemistry and biology. **Curr Top Microbiol Immunol** 1990;153:1–251

Molecular modelling of C3 and its ligands. Sim RB, et al. **Curr Top Microbiol Immunol** 1990;153:209–22 (44 ref.)

ANALYSIS

Plasma C3c changes in myasthenia gravis patients receiving high–dose intravenous immunoglobulin during crisis. Kamolvarin N, et al. **Acta Neurol Scand** 1989 Oct; 80(4):324–6

Lymphocyte mitogenesis, immunoglobulin and complement levels in depressed patients and normal controls. Kronfol Z, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):142–7

Cholestatic hepatitis, cutaneous vasculitis, and vascular deposits of immunoglobulin M and complement associated with hepatitis A virus infection. Dan M, et al. **Am J Med** 1990 Jul;89(1):103–4

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of patients with premalignant and malignant lesions of the oral cavity. Rajendran R, et al. **Ann Dent** 1990 Summer;49(1):36–8, 51

C3 activation products correlate with antibodies to lipid A in pauciarticular juvenile arthritis. Olds LC, et al. **Arthritis Rheum** 1990 Apr;33(4):520–4

A study of the complement system in psychiatric patients. Spivak B, et al. **Biol Psychiatry** 1989 Oct;26(6):640–2

Correlations between quantitative assay of red cell–bound C3, serologic reactions, and hemolytic anemia. Fischer JT, et al. **Blood** 1974 Sep;44(3):359–73

Complement C3 proteins in psoriasis. Acevedo F, et al. **Br J Dermatol** 1989 Sep;121(3):329–35

Deposition of C3, C9 neoantigen and vitronectin (S–protein of complement) in lichen planus pemphigoides. Hintner H, et al. **Br J Dermatol** 1990 Jul;123(1):39–47

The complements and immunoglobulins in different media of healthy pregnant women and in pregnant women with increased blood pressure. Rosić B, et al. **Clin Exp Obstet Gynecol** 1990;17(1):31–5

Direct immunofluorescence testing of normal feline nasal planum and footpad. Kalaher KM, et al. **Cornell Vet** 1990 Jan;80(1):105–9

Does non–enzymatic glycosylation affect complement function in diabetes? Peake PW, et al. **Diabetes Res** 1989 Jul;11(3):109–14

Electron microscopic demonstration of a common structural motif in human complement factor C3 and rat alpha 1–inhibitor 3 (murinoglobulin). Ikai A, et al. **FEBS Lett** 1990 Jan 29;260(2):291–3

Relationship of serum alpha–fetoprotein to circulating immune complexes and complements in patients with hepatitis B surface antigen–positive hepatocellular carcinoma. Tsai JF, et al. **Gastroenterol Jpn** 1990 Jun; 25(3):388–93

Relationship of C3 & C4 levels with filarial immune complexes in bancroftian filariasis. Prasad GB, et al. **Indian J Med Res** 1989 Sep;89:322–5

Serum immunoglobulins and complement in patients suffering from amoebic liver abscess. Ahmed L. **J Egypt Soc Parasitol** 1990 Jun;20(1):23–8

Correlation between circulating schistosomal antigen, schistosomal complement C3 and intensity of infection. Rashed SM, et al. **J Egypt Soc Parasitol** 1990 Jun; 20(1):133–9

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of diabetic patients with periodontitis. Anil S, et al. **J Periodontol** 1990 Jan;61(1):27–9

Cutaneous immunofluorescence in ankylosing spondylitis. Absence of correlation with disease activity. Peeters AJ, et al. **J Rheumatol** 1990 Feb;17(2):234–7

Diagnostic significance of IgG, C3, and C9 at the limb muscle motor end–plate in minimal myasthenia gravis. Tsujihata M, et al. **Neurology** 1989 Oct;39(10):1359–63

C3–containing serum immune complexes in patients with systemic lupus erythematosus: correlation to disease activity and comparison with other rheumatic diseases. Huber C, et al. **Rheumatol Int** 1989;9(2):59–64

Changes in complement C3 levels following treatment of patients with Brugia malayi infection. Yadav M. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):183–7

[Immunologic findings in the newborn infant. II. Studies of humoral immunity, reference values of immunologic studies in the newborn infant] Weinmann G, et al. **Kinderarztl Prax** 1989 Jul;57(7):327–33 (Eng. Abstr.) (Ger)

[Recurrent post–infectious immune complex glomerulonephritis with persistent activation of the alternative complement pathway] Arslan–Kirchner M, et al. **Monatsschr Kinderheilkd** 1990 Feb;138(2):81–4 (Eng. Abstr.) (Ger)

[Changes of complement in immune complex glomerulonephritis induced by cationized antigen] Fukuda W, et al. **Nippon Jinzo Gakkai Shi** 1989 Sep;31(9):897–903 (Eng. Abstr.) (Jpn)

[Clinical significance of the third component of complement assay] Takemura S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:650–3 (Jpn)

[ELISA for platelet–associated IgG, IgM, and C3, and their clinical application] Enokido C, et al. **Rinsho Byori** 1989 Aug;37(8):923–8 (Eng. Abstr.) (Jpn)

[Various non–specific immunity proteins in the blood serum of workers in the coke–processing industry] Misiewicz A, et al. **Wiad Lek** 1989 Jul 1–15;42(13–15):854–7 (Eng. Abstr.) (Pol)

[Level of the C3–component of complement in the blood serum of sick children] Podosinnikov IS, et al. **Lab Delo** 1989;(7):57–8 (Eng. Abstr.) (Rus)

[Plasmapheresis and the immune system in heart surgery patients] Shevchenko IuL, et al. **Vestn Khir** 1990 Feb; 144(2):89–91 (Eng. Abstr.) (Rus)

BIOSYNTHESIS

Biosynthesis and genetics of C3. Barnum SR, et al. **Curr Top Microbiol Immunol** 1990;153:23–43 (127 ref.)

Glucocorticoid and progestin regulation of eosinophil chemotactic factor and complement C3 in the estrogen–treated rat uterus. Howe RS, et al. **Endocrinology** 1990 Jun;126(6):3193–9

Endometrial synthesis and secretion of complement component–3 by patients with and without endometriosis. Isaacson KB, et al. **Fertil Steril** 1990 May;53(5):836–41

Production and secretion of complement component 3 by endometriotic tissue. Isaacson KB, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1003–9

Differential regulation of complement factor H and C3 production in human umbilical vein endothelial cells by IFN–gamma and IL–1. Brooimans RA, et al. **J Immunol** 1990 May 15;144(10):3835–40

Cytokine regulation of C3 and C5 production by the human type II pneumocyte cell line, A549. Rothman BL, et al. **J Immunol** 1990 Jul 15;145(2):592–8

Antagonism of estrogen– and antiestrogen–induced uterine complement component C3 expression by ICI 164,384. Galman MS, et al. **J Steroid Biochem** 1990 Jul 4;36(4):281–6

Hormonal regulation of complement biosynthesis in human cell lines—II. Upregulation of the biosynthesis of complement components C3, factor B and C1 inhibitor by interleukin–6 and interleukin–1 in human hepatoma cell line. Falus A, et al. **Mol Immunol** 1990 Feb;27(2):197–201

Synthesis of the third component of complement (C3) by lectin–activated and HTLV–infected human T–cells. Pantazis P, et al. **Mol Immunol** 1990 Mar;27(3):283–9

Serum haemolytic complement activity and C3 levels in bovine trypanosomosis under natural conditions of challenge—early indications of individual susceptibility to disease. Authié E, et al. **Vet Parasitol** 1990 Feb; 35(1–2):43–59

DEFICIENCY

Low serum complement levels in anorexia nervosa [letter; comment] Sigal LH, et al. **Am J Dis Child** 1989 Dec; 143(12):1391–2 Comment on: Am J Dis Child 1989 May;143(5):595–602.

Complement deficiency in Sweet's syndrome [letter] Weiss RM, et al. **Br J Dermatol** 1989 Sep;121(3):413–5

C3 deficiencies. Bitter–Suermann D, et al. **Curr Top Microbiol Immunol** 1990;153:223–33 (42 ref.)

Molecular basis of complement C3 deficiency in guinea pigs. Auerbach HS, et al. **J Clin Invest** 1990 Jul;86(1):96–106

[Perihepatitis and C2 deficiency. Relation to lupic disease? (letter)] Cherin P, et al. **Rev Med Interne** 1990 Jan–Feb; 11(1):91–2 (Fre)

GENETICS

Population data and a fourth allele for equine complement component 3 (C3). Bowling AT, et al. **Anim Genet** 1990; 21(1):83–6

Genes associated with rheumatoid arthritis and mild inflammatory arthritis. II. Association of HLA with complement C3 and immunoglobulin Gm allotypes. Puttick AH, et al. **Ann Rheum Dis** 1990 Apr;49(4):225–8

Genetic polymorphism of C3 in the Veneto population, Italy. Crestani C, et al. **Anthropol Anz** 1989 Dec;47(4):299–303

Structural homologies of component C5 of human complement with components C3 and C4 by neutron scattering. Perkins SJ, et al. **Biochemistry** 1990 Feb 6; 29(5):175–80

The stimulation of uterine complement component C3 gene expression by antiestrogens. Sundstrom SA, et al. **Endocrinology** 1990 Mar;126(3):1449–56

Restriction fragment length polymorphism of the human C3 complement gene. Dandieu S, et al. **Exp Clin Immunogenet** 1986;3(1):34–7

Polymorphism of the complement C3 gene in the Lebanese population. Ghanem N, et al. **Exp Clin Immunogenet** 1987; 4(4):222–6

Genomic organization of human complement component C3. Fong KY, et al. **Genomics** 1990 Aug;7(4):579–86

Complement C2, C3, C4 and factor B allele distribution in the Gipsy population in Hungary. Kramer J, et al. **Immunol Lett** 1990 Mar–Apr;24(1):11–2

The difference between human C3F and C3S results from a single amino acid change from an asparagine to an aspartate residue at position 1216 on the alpha chain of the complement component, C3 [letter] Poznansky MC, et al. **J Immunol** 1989 Dec 1;143(11):3860–2

Functional consequences of the genetic polymorphism of the third component of complement. Welch TR, et al. **J Pediatr** 1990 May;116(5):S92–7

EcoRI polymorphism in the human third complement component (C3) gene. Botto M, et al. **Nucleic Acids Res** 1990 May 11;18(9):2833

Nucleotide and deduced amino acid sequence of rat complement C3. Misumi Y, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2178

[Characteristics of polymorphic variants of the 3d component od the complement system. Association of C3F with various diseases] Rak K. **Pol Arch Med Wewn** 1988 Jul; 80(1):28–35 (40 ref.) (Pol)

IMMUNOLOGY

Modulation of Fc gamma receptors in the membrane of human monocytes: effect on monocyte functions. Mannhalter JW, et al. **Acta Paediatr Hung** 1990; 30(1):143–54

Complement abnormalities in multiple myeloma. Zurlo JJ, et al. **Am J Med** 1989 Oct;87(4):411–20 (35 ref.)

Immune complex binding to erythrocyte–CR1 (CD 35), CR1 expression and levels of erythrocyte–fixed C3 fragments in SLE outpatients. Jepsen HH, et al. **APMIS** 1990 Jul; 98(7):637–44

Neoantigens in complement component C3 as detected by monoclonal antibodies. Mapping of the recognized epitopes by synthetic peptides. Nilsson B, et al. **Biochem J** 1990 May 15;268(1):55–61

Structural and functional analysis of C3 using monoclonal antibodies. Alsenz J, et al. **Curr Top Microbiol Immunol** 1990;153:235–48 (76 ref.)

Immunoglobulin G, complement factor C3 and lymphocytes in proliferative intraocular disorders. Weller M, et al. **Int Ophthalmol** 1990 Jul;14(4):277–83

Phagocytosis of leprosy bacilli is mediated by complement receptors CR1 and CR3 on human monocytes and complement component C3 in serum. Schlesinger LS, et al. **J Clin Invest** 1990 Apr;85(4):1304–14

A new method for identification of antigen specificity of monoclonal antibodies against soluble antigens. Immunoenzymatic staining of precipitin lines in agarose gel [letter] Okuda T. **J Immunol Methods** 1989 Nov 30; 124(2):287–8

Role of humoral factors in host resistance to the Bacteroides fragilis group. Bjornson AB. **Rev Infect Dis** 1990 Jan–Feb; 12 Suppl 2:S161–8 (30 ref.)

[Therapeutic implication of plasma C3 rich fraction against bacterial infection in surgical patients] Inoue S. **Nippon Geka Gakkai Zasshi** 1989 Jul;90(7):988–98 (Eng. Abstr.) (Jpn)

[Expression of HLA–D antigens, FcIgG and C3 receptors on peripheral blood monocytes in patients with chronic glomerulonephritis] Szewczyk Z, et al. **Pol Arch Med Wewn** 1988 Nov;80(5):255–60 (Eng. Abstr.) (Pol)

[Selected immunologic parameters and infections in children in over 1 year after completion of the treatment of acute

lymphoblastic leukemia] Rytwiński K, et al. **Pol Tyg Lek** 1989 Apr 3;44(14):320–2 (Eng. Abstr.) **(Pol)**

ISOLATION & PURIFICATION

Isolation and characterization of the third complement component of axolotl (Ambystoma mexicanum). Avila D, et al. **Comp Biochem Physiol [B]** 1990;95(4):839–45

Purification of chicken C3 and a structural and functional characterization. Laursen I, et al. **Scand J Immunol** 1989 Nov;30(5):529–38

[Components of human complement system. Testing and isolation of C3 and C5] Kosiak AV, et al. **Biokhimiia** 1990 Feb;55(2):276–84 (Eng. Abstr.) **(Rus)**

METABOLISM

Intracellular processing of complement pro–C3 and proalbumin is inhibited by rat alpha 1–protease inhibitor variant (Met352——Arg) in transfected cells. Misumi Y, et al. **Biochem Biophys Res Commun** 1990 Aug 31; 171(1):236–42

Phosphorylation of complement factor C3 in vivo. Martin SC. **Biochem J** 1989 Aug 1;261(3):1051–4

Binding of recombinant interleukin–1 beta to the third complement component and alpha 2–macroglobulin after activation of serum by immune complexes. Borth W, et al. **Blood** 1990 Jun 15;75(12):2388–95

Peptide inhibitors of C3 breakdown. Peake P, et al. **Clin Exp Immunol** 1990 Mar;79(3):454–8

Aqueous humor protein and complement in pseudophakic eyes. Tuberville AW, et al. **Cornea** 1990 Jul;9(3):249–53

C3 binding proteins of foreign origin. Dierich MP, et al. **Curr Top Microbiol Immunol** 1990;153:163–80 (106 ref.)

The thioester bond of C3. Levine RP, et al. **Curr Top Microbiol Immunol** 1990;153:73–82 (48 ref.)

Human complement factor H: an additional gene product of 43 kDa isolated from human plasma shows cofactor activity for the cleavage of the third component of complement. Misasi R, et al. **Eur J Immunol** 1989 Sep; 19(9):1765–8

Activation of C3 and binding to Aspergillus fumigatus conidia and hyphae. Kozel TR, et al. **Infect Immun** 1989 Nov;57(11):3412–7

Structural requirements for C3d,g/Epstein–Barr virus receptor (CR2/CD21) ligand binding, internalization, and viral infection. Carel JC, et al. **J Biol Chem** 1990 Jul 25; 265(21):12293–9

In vitro phosphorylation of human complement factor C3 by protein kinase A and protein kinase C. Effects on the classical and alternative pathways. Forsberg PO, et al. **J Biol Chem** 1990 Feb 15;265(5):2941–6

C3, C4, and the terminal complement complex differ from C1q by binding predominantly to the antigenic part of solid phase immune complexes. Garred P, et al. **J Immunol** 1990 Jan 1;144(1):198–203

C3–cleaving membrane proteinase. A new complement regulatory protein of human melanoma cells. Ollert MW, et al. **J Immunol** 1990 May 15;144(10):3862–7

Binding and release of C3 from Leishmania donovani promastigotes during incubation in normal human serum. Puentes SM, et al. **J Immunol** 1989 Dec 1;143(11):3743–9

Quantitative analysis of membrane cofactor protein (MCP) of complement. High expression of MCP on human leukemia cell lines, which is down–regulated during cell differentiation. Seya T, et al. **J Immunol** 1990 Jul 1; 145(1):238–45

Activation of complement on the surface of cells infected by human immunodeficiency virus. Spear GT, et al. **J Immunol** 1990 Feb 15;144(4):1490–6

Accelerated nonproteolytic cleavage of C3 in plasma from patients with primary biliary cirrhosis. Lindgren S. **J Lab Clin Med** 1989 Dec;114(6):655–61

Complement C3 deposition onto bacteria by neonatal serum is not enhanced after the infusion of intravenous immunoglobulin. Lassiter HA, et al. **J Perinatol** 1990 Mar; 10(1):27–31

Third component of human complement: C3. Berger M. **Methods Enzymol** 1990;184:619–28

The effect of antibody isotype on the activation of C3 and C4 by immune complexes formed in the presence of serum: correlation with the prevention of immune precipitation. Stewart WW, et al. **Mol Immunol** 1990 May;27(5):423–8

Increased amounts of C4–containing immune complexes and inefficient activation of C3 and the terminal complement pathway in a patient with homozygous C2 deficiency and systemic lupus erythematosus. Garred P, et al. **Scand J Immunol** 1990 Jan;31(1):59–64

[Complement–mediated solubilization of immune complexes in immune complex nephritis] Amano T, et al. **Nippon Jinzo Gakkai Shi** 1989 Aug;31(8):807–13 (Eng. Abstr.) **(Jpn)**

[Concentration of complement C3 and C4 in sera containing monoclonal IgA or IgG] Bartelik S. **Przegl Lek** 1990; 47(2):265–7 (Eng. Abstr.) **(Pol)**

PHARMACOLOGY

Influence of complement on sperm motility. Vogelpoel FR, et al. **Int J Androl** 1990 Apr;13(2):81–6

PHYSIOLOGY

An affinity for complement C3 as a possible reason for the potency of naturally occurring antibodies in mediating tissue homeostasis. Lutz HU, et al. **Beitr Infusionther** 1989; 24:193–9 (23 ref.)

Inhibition of endotoxic lipopolysaccharide–mediated platelet aggregation by cobra venom anticomplementary factor. Fong JS, et al. **Blood** 1974 Sep;44(3):399–409

Molecular aspects of C3 interactions and structural/functional analysis of C3 from different species. Becherer JD, et al. **Curr Top Microbiol Immunol** 1990; 153:45–72 (169 ref.)

Participation of C3 and its ligands in complement activation. Volanakis JE. **Curr Top Microbiol Immunol** 1990;153:1–21 (124 ref.)

Methylprednisolone in high doses gives different effects on the early and the late part of complement. Roeise O, et al. **Eur Surg Res** 1990;22(1):41–9

The role of C3 and its fragments in the control of S phase entry of activated mouse B lymphocytes via the complement receptor type 2. Lernhardt W, et al. **Exp Clin Immunogenet** 1988;5(2–3):115–22 (37 ref.)

Phagocytosis of Mycobacterium tuberculosis is mediated by human monocyte complement receptors and complement component C3. Schlesinger LS, et al. **J Immunol** 1990 Apr 1;144(7):2771–80

Factor C3f is a spasmogenic fragment released from C3b by factors I and H: the heptadeca–peptide C3f was synthesized and characterized. Ganu VS, et al. **Mol Immunol** 1989 Oct;26(10):939–48

Structure and function of C3. Barnum SR, et al. **Year Immunol** 1989–90;6:208–28 (103 ref.)

ULTRASTRUCTURE

Demonstration in human plasma of a form of C3 that has the conformation of "C3b–like C3". Hack CE, et al. **J Immunol** 1990 Jun 1;144(11):4249–55

URINE

Significance of urinary complement components in various glomerular diseases. Sakakibara K, et al. **Thromb Res** 1990 Feb 15;57(4):625–37

COMPLEMENT 3 CONVERTASE see under COMPLEMENT ACTIVATING ENZYMES

COMPLEMENT 3 NEPHRITIC FACTOR see under COMPLEMENT INACTIVATORS

COMPLEMENT 3A

Activation of complement by hemodialysis membranes: polyacrylonitrile binds more C3a than cuprophan. Cheung AK, et al. **Kidney Int** 1990 Apr;37(4):1055–9

ANALYSIS

Anaphylatoxins and terminal complement complexes in pancreatitis. Evidence of complement activation in plasma and ascites fluid of patients with acute pancreatitis. Roxvall LI, et al. **Arch Surg** 1990 Jul;125(7):918–21

Complement activation and the prognostic value of C3a in patients at risk of adult respiratory distress syndrome. Zilow G, et al. **Clin Exp Immunol** 1990 Feb;79(2):151–7

Anaphylatoxins C3a and C5a adsorption on acrylonitrile membrane of hollow–fiber and plate dialyzer—an in vivo study. Kandus A, et al. **Int J Artif Organs** 1990 Mar; 13(3):176–80

Assays for plasma complement activation by x–ray contrast media. Eaton S, et al. **Invest Radiol** 1990 Jul;25(7):789–92

BIOSYNTHESIS

The effect of FUT–175 (Nafamstat Mesilate) on C3a, C4a and C5a generation in vitro and inflammatory reactions in vivo. Issekutz AC, et al. **Int J Immunopharmacol** 1990; 12(1):1–9

CEREBROSPINAL FLUID

Activated complement components C3a and C4a in cerebrospinal fluid and plasma following subarachnoid hemorrhage. Kasuya H, et al. **J Neurosurg** 1989 Nov;71(5 Pt 1):741–6

METABOLISM

Aqueous humor protein and complement in pseudophakic eyes. Tuberville AW, et al. **Cornea** 1990 Jul;9(3):249–53

Binding of human C3a and the synthetic nonapeptide C3a (tyr–70–77) to rat peritoneal mast cells. Gervasoni JE Jr, et al. **Prog Clin Biol Res** 1989;297:221–31; discussion 231–2

[Effects of nicotine and cigarette smoke extracts on plasma level of complement C3a and C5a, thromboxane B2 and 6–keto PGF1 alpha in rabbits] Kihira Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Dec; 27(12):1495–501 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

C3a57–77, a C–terminal peptide, causes thromboxane–dependent pulmonary vascular constriction in isolated perfused rat lungs. Morganroth ML, et al. **Am Rev Respir Dis** 1990 Feb;141(2):296–300

Interleukin 3 and granulocyte/macrophage–colony–stimulating factor render human basophils responsive to low concentrations of complement component C3a. Bischoff SC, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6813–7

PHYSIOLOGY

Structure and function of C3a anaphylatoxin. Hugli TE. **Curr Top Microbiol Immunol** 1990;153:181–208 (111 ref.)

Reevaluation of the C3a active site using short synthetic C3a analogues. Köhl J, et al. **Eur J Immunol** 1990 Jul; 20(7):1463–8

COMPLEMENT 3B

Regulatory system of guinea–pig complement C3b: two factor I–cofactor proteins on guinea–pig peritoneal granulocytes. Seya T, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):504–12

ANALYSIS

Quantitative analyses of C3b capture and immune adherence of IgM antibody/dsDNA immune complexes. Taylor RP, et al. **J Immunol** 1989 Dec 1;143(11):3626–31

Detection of C3bBb–stabilizing activity (C3 nephritic factor) in the serum from patients with membranoproliferative glomerulonephritis. Ohi H, et al. **J Immunol Methods** 1990 Jul 20;131(1):71–6

DEFICIENCY

Association of low levels of mannan–binding protein with a common defect of opsonisation. Super M, et al. **Lancet** 1989 Nov 25;2(8674):1236–9

IMMUNOLOGY

The clinical significance of iC3b neoantigen expression in plasma from patients with systemic lupus erythematosus. Negoro N, et al. **Arthritis Rheum** 1989 Oct;32(10):1233–42

How naturally occurring anti–band 3 antibodies stimulate C3b deposition to senescent and oxidatively stressed red blood cells. Lutz HU, et al. **Biomed Biochim Acta** 1990; 49(2–3):S224–9

Potentiation of NK cytotoxicity by antibody–C3b/iC3b heteroconjugates. Yefenof E, et al. **J Immunol** 1990 Feb 15;144(4):1538–43

Glycoprotein C of herpes simplex virus type 1 prevents complement–mediated cell lysis and virus neutralization. Harris SL, et al. **J Infect Dis** 1990 Aug;162(2):331–7

Complement fragments C3b and iC3b coupled to latex induce a respiratory burst in human neutrophils. Hoogerwerf M, et al. **Mol Immunol** 1990 Feb;27(2):159–67

In–vitro lysis of sensitized Trypanosoma cruzi by platelets: role of C3b receptors. Umekita LF, et al. **Parasite Immunol** 1989 Sep;11(5):561–6

[C3b–mediated chemiluminescence of human lymphocytes] Maianskiĭ AN, et al. **Biull Eksp Biol Med** 1989 Nov; 108(11):587–9 (Eng. Abstr.) **(Rus)**

[The effect of staphylococci on the manifestation of opsonic cooperation in the complement system] Konyshkina TM. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Nov;(11):67–71 (Eng. Abstr.) **(Rus)**

METABOLISM

Polymerization of factor B of the alternative complement pathway via disulfide bond(s) in the presence of Cu2+ and stimulation by C3b, the major fragment of C3. Matsushita M, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):101–5

Recombinant human granulocyte colony–stimulating factor as an activator of human granulocytes: potentiation of responses triggered by receptor–mediated agonists and stimulation of C3bi receptor expression and adherence. Yuo A, et al. **Blood** 1989 Nov 1;74(6):2144–9

Degradation of aggregates of activated C3 (C3b) by monocytes of patients with rheumatoid arthritis is related to vasculitis. Heurkens AH, et al. **Clin Exp Immunol** 1990 May;80(2):177–80

Competition for binding sites on C3b by CR1, CR2, MCP, factor B and Factor H. Farries TC, et al. **Complement Inflamm** 1990;7(1):30–41

Analysis of the binding of human C3b to glycoproteins on rabbit and sheep erythrocytes. Parker CJ, et al. **Complement Inflamm** 1990;7(1):1–17

Regulation of the human alternative complement pathway: formation of a ternary complex between factor H, surface–bound C3b and chemical groups on nonactivating surfaces. Carreno MP, et al. **Eur J Immunol** 1989 Nov; 19(11):2145–50

Epithelial deposition of immunoglobulin G1 and activated complement (C3b and terminal complement complex) in ulcerative colitis. Halstensen TS, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1264–71

Reduced expression of the functionally active complement receptor for iC3b but not for C3d on an avirulent mutant of Candida albicans. Ollert MW, et al. **Infect Immun** 1990 Apr;58(4):909–13

Localization of the covalent C3b–binding site on C4b within the complement classical pathway C5 convertase, C4b2a3b. Kozono H, et al. **J Biol Chem** 1990 Aug 25;265(24):14444–9

Neutrophil elastase cleaves C3bi on opsonized pseudomonas

as well as CR1 on neutrophils to create a functionally important opsonin receptor mismatch. Tosi MF, et al. **J Clin Invest** 1990 Jul;86(1):300–8

Inhibition of factor I by diisopropylfluorophosphate. Evidence of conformational changes in factor I induced by C3b and additional studies on the specificity of factor I. Ekdahl KN, et al. **J Immunol** 1990 Jun 1;144(11):4269–74

Potentiation of NK cytotoxicity by antibody–C3b/iC3b heteroconjugates. Yefenof E, et al. **J Immunol** 1990 Feb 15;144(4):1538–43

The iC3b receptor on Candida albicans: subcellular localization and modulation of receptor expression by glucose. Hostetter MK, et al. **J Infect Dis** 1990 Apr; 161(4):761–8

Studies of C3d,g in normal human epidermal basement membrane. Yancey KB, et al. **J Invest Dermatol** 1990 Jun; 94(6 Suppl):122S–127S (30 ref.)

Peripheral nerve CR1 express in situ cofactor activity for degradation of C3b. Vedeler CA, et al. **J Neuroimmunol** 1990 Jan;26(1):51–6

Evaluation of the complement split product C3dg in synovial fluid as a possible diagnostic guide in inflammatory arthropathies. Michel BA, et al. **J Rheumatol** 1989 Sep; 16(9):1201–4

Identification of C3b-binding regions on herpes simplex virus type 2 glycoprotein C. Seidel-Dugan C, et al. **J Virol** 1990 May;64(5):1897–906

Factor C3f is a spasmogenic fragment released from C3b by factors I and H: the heptadeca-peptide C3f was synthesized and characterized. Ganu VS, et al. **Mol Immunol** 1989 Oct;26(10):939–48

Discrimination between activators and nonactivators of the alternative pathway of complement: regulation via a sialic acid/polyanion binding site on factor H. Meri S, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3982–6

Zinc ions inhibit factor I-mediated release of CR1-bound immune complexes and degradation of cell-bound complement factors C3b and C4b. Jepsen HH, et al. **Scand J Immunol** 1990 Apr;31(4):397–403

[Distribution of C3b receptors on polymorphonuclear leukocytes from normal healthy adults by scanning immunoelectron microscopy] Saga T, et al. **Nippon Ganka Gakkai Zasshi** 1989 Nov;93(11):1019–24 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

An affinity for complement C3 as a possible reason for the potency of naturally occurring antibodies in mediating tissue homeostasis. Lutz HU, et al. **Beitr Infusionther** 1989; 24:193–9 (23 ref.)

Activation of bovine monocytes and neutrophils by the Bb fragment of complement factor B: demonstration by the uptake of 3H-deoxyglucose. Sethi MS, et al. **Can J Vet Res** 1990 Jan;54(1):106–12

ULTRASTRUCTURE

Demonstration in human plasma of a form of C3 that has the conformation of "C3b-like C3". Hack CE, et al. **J Immunol** 1990 Jun 1;144(11):4249–55

COMPLEMENT 3B INACTIVATORS

BIOSYNTHESIS

Differential regulation of complement factor H and C3 production in human umbilical vein endothelial cells by IFN-gamma and IL-1. Brooimans RA, et al. **J Immunol** 1990 May 15;144(10):3835–40

DEFICIENCY

Hereditary, complete deficiency of complement factor H associated with recurrent meningococcal disease. Nielsen HE, et al. **Scand J Immunol** 1989 Dec;30(6):711–8

[Factor I deficiency, a regulator protein of complement (letter)] Maillet F, et al. **Presse Med** 1990 Apr 21;19(16):762 **(Fre)**

GENETICS

Genetic polymorphism of complement factor H in cattle. Tabel H, et al. **Anim Genet** 1990;21(2):123–8

Analysis of complement factor H mRNA expression: dexamethasone and IFN-gamma increase the level of H in L cells. Muñoz-Cánoves P, et al. **Biochemistry** 1989 Dec 26;28(26):9891–7

Physical linkage of the human genes coding for complement factor H and coagulation factor XIII B subunit. Rey-Campos J, et al. **Genomics** 1990 Aug;7(4):644–6

Genetic polymorphism of human factor H (beta 1H globulin). Nakamura S, et al. **Hum Hered** 1990;40(3):121–6

Factor H polymorphism, typing by isoelectrofocusing and immunoblotting: no association with rheumatoid arthritis. Zhou M, et al. **Hum Hered** 1990;40(1):55–7

Prevalence of the 1.8 kb complement factor H mRNA in human lung. Demares MJ, et al. **Immunology** 1990 Jun; 70(2):150–4

Identification and sequence analysis of four complement factor H-related transcripts in mouse liver. Vik DP, et al. **J Biol Chem** 1990 Feb 25;265(6):3193–201

Demonstration of an unusual allelic variation of mouse factor H by the complete cDNA sequence of the H.2 allotype. Natsuume-Sakai S, et al. **J Immunol** 1990 Jan 1; 144(1):358–62

IMMUNOLOGY

Antigenic structure of human C1 esterase inhibitor, factor H and factor B. Bauer K. **Exp Clin Immunogenet** 1986; 3(4):224–9

METABOLISM

Competition for binding sites on C3b by CR1, CR2, MCP, factor B and Factor H. Farries TC, et al. **Complement Inflamm** 1990;7(1):30–41

Regulation of the human alternative complement pathway: formation of a ternary complex between factor H, surface-bound C3b and chemical groups on nonactivating surfaces. Carreno MP, et al. **Eur J Immunol** 1989 Nov; 19(11):2145–50

Discrimination between activators and nonactivators of the alternative pathway of complement: regulation via a sialic acid/polyanion binding site on factor H. Meri S, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3982–6

PHARMACOLOGY

Factor C3f is a spasmogenic fragment released from C3b by factors I and H: the heptadeca-peptide C3f was synthesized and characterized. Ganu VS, et al. **Mol Immunol** 1989 Oct;26(10):939–48

PHYSIOLOGY

Factor H. Vik DP, et al. **Curr Top Microbiol Immunol** 1990; 153:147–62 (90 ref.)

Human complement factor H: an additional gene product of 43 kDa isolated from human plasma shows cofactor activity for the cleavage of the third component of complement. Misasi R, et al. **Eur J Immunol** 1989 Sep; 19(9):1765–8

COMPLEMENT 3B INHIBITORS see **COMPLEMENT 3B INACTIVATORS**

COMPLEMENT 3C

ANALYSIS

Serum immunoglobulins, complement levels and lymphocyte subpopulations in phenytoin-treated epileptic patients. Başaran N, et al. **Immunopharmacol Immunotoxicol** 1989; 11(2–3):335–46

[Correlation of immunoglobulins, the complement system and inflammatory mediators with reference to the pathogenesis of serous otitis media] Jeep S. **Laryngorhinootologie** 1990 Apr;69(4):201–7 (Eng. Abstr.) **(Ger)**

[An indirect hemagglutination study of total IgE and complement fractions C3c and C4 in patients with hepatic hydatidosis and undergoing therapy] Orlando R, et al. **Minerva Med** 1989 Dec;80(12):1289–92 (Eng. Abstr.) **(Ita)**

[Immunoelectron microscopic observation of membranous nephropathy in children using protein A–gold complex method] Kawahara S, et al. **Nippon Jinzo Gakkai Shi** 1989 Nov;31(11):1143–9 (Eng. Abstr.) **(Jpn)**

[Serum levels of acid alpha 1-glycoprotein, haptoglobin, C 3c component of the complement and immunoglobulins IgG, IgA and IgM in liver damage in patients with chronic renal failure treated by repeated hemodialysis] Bartelik S, et al. **Wiad Lek** 1989 Apr 30;42(8):520–4 (Eng. Abstr.) **(Pol)**

BIOSYNTHESIS

Progesterone regulation of estradiol-induced rat uterine secretory protein, complement C3. Brown EO, et al. **Biol Reprod** 1990 Apr;42(4):713–9

IMMUNOLOGY

[Platelet immunoglobulins and complement in idiopathic thrombocytopenic purpura. Specificity to the IIb/IIIa membrane complex] del Real Llorente M, et al. **An Esp Pediatr** 1990 Apr;32(4):293–8 (34 ref.) (Eng. Abstr.) **(Spa)**

METABOLISM

Complement components in neonatal sepsis. Singh RP, et al. **Ann Trop Paediatr** 1990 Mar;10(1):35–7

Enhancing effect of antitumor polysaccharide from Astragalus or Radix hedysarum on C3 cleavage production of macrophages in mice. Wang J, et al. **Jpn J Pharmacol** 1989 Nov;51(3):432–4

COMPLEMENT 3D

ANALYSIS

ELISA methods for the estimation of C3d [letter; comment] Senaldi G, et al. **J Immunol Methods** 1989 Nov 30; 124(2):283–6 Comment on: J Immunol Methods 1989 Jun 21;120(2):207–14.

Comparative study of assays detecting complement activation. Complement-split product C3d (rocket immuno-electrophoresis) and C3d neodeterminants (ELISA). Espersen GT, et al. **Scand J Clin Lab Invest** 1990 Jun;50(4):389–93

IMMUNOLOGY

Specificities of monoclonal antibodies against the complement C3d split product. Lund ED, et al. **Complement Inflamm** 1990;7(1):18–29

Monoclonal anti-human C3d antibodies: stabilization of the alternative pathway C3 convertase. Tanuma Y, et al. **Immunology** 1989 Dec;68(4):445–8

METABOLISM

Stable expression and function of EBV/C3d receptor following genomic transfection into murine fibroblast L cells. Cantaloube JF, et al. **Eur J Immunol** 1990 Feb; 20(2):409–16

Reduced expression of the functionally active complement receptor for iC3b but not for C3d on an avirulent mutant of Candida albicans. Ollert MW, et al. **Infect Immun** 1990 Apr;58(4):909–13

Purification and characterization of the extracellular C3d-binding protein of Candida albicans. Saxena A, et al. **Infect Immun** 1990 Feb;58(2):309–14

Structural requirements for C3d,g/Epstein-Barr virus receptor (CR2/CD21) ligand binding, internalization, and viral infection. Carel JC, et al. **J Biol Chem** 1990 Jul 25; 265(21):12293–9

Hydrodynamic, electron microscopic, and ligand-binding analysis of the Epstein-Barr virus/C3dg receptor (CR2). Moore MD, et al. **J Biol Chem** 1989 Dec 5; 264(34):20576–82

Complement-activated oligodendroglia: a new pathogenic entity identified by immunostaining with antibodies to human complement proteins C3d and C4d. Yamada T, et al. **Neurosci Lett** 1990 May 4;112(2–3):161–6

Epstein-Barr virus/complement fragment C3d receptor (CR2) reacts with p53, a cellular antioncogene-encoded membrane phosphoprotein: detection by polyclonal anti-idiotypic anti-CR2 antibodies. Barel M, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10054–8

COMPLEMENT 4

Molecular modeling of human complement component C4 and its fragments by X-ray and neutron solution scattering. Perkins SJ, et al. **Biochemistry** 1990 Feb 6;29(5):1167–75

ANALYSIS

Lymphocyte mitogenesis, immunoglobulin and complement levels in depressed patients and normal controls. Kronfol Z, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):142–7

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of patients with premalignant and malignant lesions of the oral cavity. Rajendran R, et al. **Ann Dent** 1990 Summer;49(1):36–8, 51

A study of the complement system in psychiatric patients. Spivak B, et al. **Biol Psychiatry** 1989 Oct;26(6):640–2

The complements and immunoglobulins in different media of healthy pregnant women and in pregnant women with increased blood pressure. Rosić B, et al. **Clin Exp Obstet Gynecol** 1990;17(1):31–5

HLA, C4, Bf, Gm and autoantibodies in rheumatoid arthritis. Warlow RS, et al. **Exp Clin Immunogenet** 1988; 5(2–3):133–42

Relationship of serum alpha-fetoprotein to circulating immune complexes and complements in patients with hepatitis B surface antigen-positive hepatocellular carcinoma. Tsai JF, et al. **Gastroenterol Jpn** 1990 Jun; 25(3):388–93

Quantitative variation of C4 variant proteins associated with many MHC haplotypes. Truedsson L, et al. **Immunogenetics** 1989;30(6):414–21

Relationship of C3 & C4 levels with filarial immune complexes in bancroftian filariasis. Prasad GB, et al. **Indian J Med Res** 1989 Sep;89:322–5

Sandwich enzyme-linked immunosorbent assays for the quantification of the C4 isotypes (C4A and C4B) in human plasma. Chrispeels J, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):5–12

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of diabetic patients with periodontitis. Anil S, et al. **J Periodontol** 1990 Jan;61(1):27–9

[Immunologic findings in the newborn infant. II. Studies of humoral immunity, reference values of immunologic studies in the newborn infant] Weinmann G, et al. **Kinderarztl Prax** 1989 Jul;57(7):327–33 (Eng. Abstr.) **(Ger)**

[An indirect hemagglutination study of total IgE and complement fractions C3c and C4 in patients with hepatic hydatidosis and undergoing therapy] Orlando R, et al. **Minerva Med** 1989 Dec;80(12):1289–92 (Eng. Abstr.) **(Ita)**

[Clinical significance of the fourth component of complement assay] Takemura S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:654–6 **(Jpn)**

[Levels of the C 4 component of the complement, lactoferrin and leukocytic thermostabile alpha glycoprotein during the treatment of patients with systemic rheumatic diseases] Bareikene IP, et al. **Revmatologiia (Moskva)** 1989 Apr–Jun; (2):41–5 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Hereditary angioedema: therapeutic effect of danazol on C4 and C1 esterase inhibitors. Fabiani JE, et al. **Ann Allergy** 1990 Apr;64(4):388–92

DEFICIENCY

Low serum complement levels in anorexia nervosa [letter; comment] Sigal LH, et al. **Am J Dis Child** 1989 Dec; 143(12):1391–2 Comment on: Am J Dis Child 1989 May;143(5):595–602.

Combined complete C5 and partial C4 deficiency in humans: clinical consequences and complement–mediated functions in vitro. Gianella–Borradori A, et al. **Clin Immunol Immunopathol** 1990 Apr;55(1):41–55

Experimental neonatal syphilis in a susceptible (C4D) and a resistant (Albany) strain of guinea pig. Wicher V, et al. **Clin Immunol Immunopathol** 1990 Apr;55(1):23–40

Possible association of sudden infant death with partial complement C4 deficiency revealed by post–mortem DNA typing of HLA class II and III genes. Schneider PM, et al. **Eur J Pediatr** 1989 Dec;149(3):170–4

Molecular analysis of the IGHA and MHC class III region genes in one family with IgA and C4 deficiencies. Keyeux G, et al. **Exp Clin Immunogenet** 1990;7(3):170–80

Molecular genetics of C4B deficiency in IgA nephropathy. Welch TR, et al. **Hum Immunol** 1989 Dec;26(4):353–63

Inherited deficiency of the fourth component of human complement. Hauptmann G, et al. **Immunodefic Rev** 1988; 1(1):3–22 (87 ref.)

Uniparental isodisomy 6 associated with deficiency of the fourth component of complement. Welch TR, et al. **J Clin Invest** 1990 Aug;86(2):675–8

[Familial pulmonary hemorrhage and lupus syndrome with C4 deficiency] Boccon–Gibod L, et al. **Arch Anat Cytol Pathol** 1989;37(4):177–80 (Eng. Abstr.) **(Fre)**

GENETICS

Study on the origin of major histocompatibility complex (MHC) genes in recombinant mouse strains by detection of polymorphic variants of MHC class III gene, complement C4. Falus A, et al. **Acta Biochim Biophys Hung** 1989;24(1–2):165–70

Bf and C4 phenotypes in patients with psoriasis. Wyatt RJ, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:211–3

Genetic analysis of C4 polymorphism by use of DNA amplification (PCR), allele–specific oligonucleotide probes and allele–specific restriction enzymes. Berg ES, et al. **Ann Hum Genet** 1989 Jul;53 (Pt 3):221–7

Structural homologies of component C5 of human complement with components C3 and C4 by neutron scattering. Perkins SJ, et al. **Biochemistry** 1990 Feb 6; 29(5):175–80

Transfected cDNA directs expression of hemolytically active murine C4 in cultured mouse and monkey cells. Picchi MA, et al. **Complement Inflamm** 1989;6(6):442–52

Organization of the chimpanzee C4–CYP21 region: implications for the evolution of human genes. Kawaguchi H, et al. **Eur J Immunol** 1990 Apr;20(4):739–45

C4 from C4–high and C4–low mouse strains have identical sequences in the region corresponding to the isotype–specific segment of human C4. Ogata RT, et al. **Eur J Immunol** 1990 Jul;20(7):1607–10

Polymorphism of the human complement component C4. Campbell RD, et al. **Exp Clin Immmunogenet** 1990; 7(1):69–84 (73 ref.)

Determination of deletion sizes in the MHC–linked complement C4 and steroid 21–hydroxylase genes by pulsed–field gel electrophoresis. Partanen J, et al. **Genomics** 1989 Aug;5(2):345–9

Restriction fragment analysis of H–2 recombinant mouse strains with crossovers between E alpha and C4 genes. Lafuse WP, et al. **Immunogenetics** 1989;30(5):387–9

Post–transcriptional regulation of complement C4 in low C4–producing strain of mouse. Nakayama K, et al. **Immunogenetics** 1990;31(5–6):361–7

Restriction fragment analysis of non–deleted complement C4 null genes suggests point mutations in C4A null alleles, but gene conversions in C4B null alleles. Partanen J, et al. **Immunogenetics** 1989;30(6):520–3

Analysis of the C4 genes in baleen whales using a human cDNA probe. Spilliaert R, et al. **Immunogenetics** 1990; 32(2):73–6

Complement C2, C3, C4 and factor B allele distribution in the Gipsy population in Hungary. Kramer J, et al. **Immunol Lett** 1990 Mar–Apr;24(1):11–2

Counterregulatory effects of interferon–gamma and endotoxin on expression of the human C4 genes. Kulics J, et al. **J Clin Invest** 1990 Mar;85(3):943–9

C4 and Bf phenotypes in black and Caucasian patients with childhood onset insulin dependent diabetes mellitus. Wang C, et al. **J Clin Lab Immunol** 1989 Dec;30(4):183–90

Null alleles of human complement C4. Evidence for pseudogenes at the C4A locus and for gene conversion at the C4B locus. Braun L, et al. **J Exp Med** 1990 Jan 1;171(1):129–40

Conversion of the C4d.2 serologic allotype of murine complement component C4 to the C4d.1 allotype by site–specific mutagenesis. Mathias P, et al. **J Immunol** 1990 Jan 15;144(2):607–9

Regional variation in C4 phenotype in patients with IgA nephropathy. Wyatt RJ, et al. **J Pediatr** 1990 May; 116(5):S72–7

C4 null genes in American whites and blacks with myositis. Moulds JM, et al. **J Rheumatol** 1990 Mar;17(3):331–4

Biosynthesis of complement C4 messenger RNA in normal human kidney. Feucht HE, et al. **Nephron** 1989; 53(4):338–42

TaqI RFLP polymorphism of the ovine complement component C4 gene. Groth DM, et al. **Nucleic Acids Res** 1990 May 25;18(10):3102

EcoRI and BamHI RFLP polymorphism of bovine complement C4 gene. Groth DM, et al. **Nucleic Acids Res** 1990 May 25;18(10):3107

Allele–specific occurrence of multiple C4 and Slp mRNAs. Bruisten SM, et al. **Tissue Antigens** 1989 Oct;34(4):242–9

Restriction fragment length polymorphism of complement C4 in Japanese patients with rheumatoid arthritis and normal Japanese. Mimori A, et al. **Tissue Antigens** 1990 May;35(5):197–202

An estimate on the frequency of duplicated haplotypes and silent alleles of human C4 protein polymorphism. I. Investigations in healthy Caucasoid families. Steuer M, et al. **Tissue Antigens** 1989 May;33(5):501–10

IMMUNOLOGY

Antigenic determinants of human C4, Rodgers and Chido. Giles CM. **Exp Clin Immmunogenet** 1988;5(2–3):99–114 (73 ref.)

An epitope on C4 beta light (L) chains detected by human anti–Rg; its relationship with beta chain polymorphism and MHC associations. Robson T, et al. **Immunogenetics** 1989; 30(5):344–9

[In–vivo activation of the 4th component of the complement system (C4) in premature and term infants with generalized bacterial infections] Nürnberger W, et al. **Klin Padiatr** 1990 May–Jun;202(3):141–6 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Isolation and observation of the phenotype of feline fourth component of complement. Furukawa T, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):843–6

[Components of human complement system. Testing and isolation of C4] Chikh VP, et al. **Biokhimiia** 1990 Mar; 55(3):404–7 (Eng. Abstr.) **(Rus)**

METABOLISM

The complement component C4 of mammals. Dodds AW, et al. **Biochem J** 1990 Jan 15;265(2):495–502

Differences in the metabolism of C4 isotypes in patients with complement activation. Peake PW, et al. **Clin Exp Immunol** 1989 Oct;78(1):49–53

Characterization of a synthetic peptide that inhibits the interaction between protein S and C4b–binding protein. Walker FJ. **J Biol Chem** 1989 Oct 25;264(30):17645–8

C3, C4, and the terminal complement complex differ from C1q by binding predominantly to the antigenic part of solid phase immune complexes. Garred P, et al. **J Immunol** 1990 Jan 1;144(1):198–203

The binding site of human C4b–binding protein on complement C4 is localized in the alpha'–chain. Hessing M, et al. **J Immunol** 1990 Apr 1;144(7):2632–7

The effect of antibody isotype on the activation of C3 and C4 by immune complexes formed in the presence of serum: correlation with the prevention of immune precipitation. Stewart WW, et al. **Mol Immunol** 1990 May;27(5):423–8

Complement–activated oligodendroglia: a new pathogenic entity identified by immunostaining with antibodies to human complement proteins C3d and C4d. Yamada T, et al. **Neurosci Lett** 1990 May 4;112(2–3):161–6

Binding of cystatin C to C4: the importance of sense–antisense peptides in their interaction. Ghiso J, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1288–91

Increased amounts of C4–containing immune complexes and inefficient activation of C3 and the terminal complement pathway in a patient with homozygous C2 deficiency and systemic lupus erythematosus. Garred P, et al. **Scand J Immunol** 1990 Jan;31(1):59–64

[Concentration of complement C3 and C4 in sera containing monoclonal IgA or IgG] Bartelik S. **Przegl Lek** 1990; 47(2):265–7 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

The low C5 convertase activity of the C4A6 allotype of human complement component C4. Kinoshita T, et al. **Biochem J** 1989 Aug 1;261(3):743–8

The molecular basis of the low hemolytic activity of C4 molecules from low–C4 mice with IgM–coated erythrocytes. Dieli F, et al. **Eur J Immunol** 1989 Sep; 19(9):1613–8

COMPLEMENT 4A

ANALYSIS

Complement C4 allotypes and psoriasis. Cvorišćec D, et al. **Clin Chem** 1989 Oct;35(10):2142

C4a anaphylatoxin levels as an indicator of disease activity in systemic lupus erythematosus. Wild G, et al. **Clin Exp Immunol** 1990 May;80(2):167–70

BIOSYNTHESIS

The effect of FUT–175 (Nafamstat Mesilate) on C3a, C4a and C5a generation in vitro and inflammatory reactions in vivo. Issekutz AC, et al. **Int J Immunopharmacol** 1990; 12(1):1–9

CEREBROSPINAL FLUID

Activated complement components C3a and C4a in cerebrospinal fluid and plasma following subarachnoid hemorrhage. Kasuya H, et al. **J Neurosurg** 1989 Nov;71(5 Pt 1):741–6

GENETICS

Trichorhinophalangeal syndrome type I and systemic lupus erythematosus with complement C4A homozygous null alleles in the same family. Dahlqvist SR, et al. **Ann Rheum Dis** 1989 Sep;48(9):760–4

Can C4AQO decreased frequency be considered a genetic marker for vitiligo and familial melanoma? [letter] Orecchia G, et al. **Dermatologica** 1990;181(1):77–8

Polymorphism of the human complement component C4. Campbell RD, et al. **Exp Clin Immmunogenet** 1990; 7(1):69–84 (73 ref.)

Unequal expression of complement C4A and C4B genes in rheumatoid synovial cells, human monocytoid and hepatoma–derived cell lines. Falus A, et al. **Immunology** 1989 Sep;68(1):133–6

Substitution of a single amino acid (aspartic acid for histidine) converts the functional activity of human complement C4B to C4A. Carroll MC, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6868–72

Characterization of two hybrid C4 allotypes (C4A*12 and C4B*3) by electrophoretic, serological and restriction fragment length polymorphism analyses. McLean RH, et al. **Tissue Antigens** 1990 Feb;35(2):75–81

IMMUNOLOGY

Differences between C4A and C4B in the handling of immune complexes: the enhancement of CR1 binding is more important than the inhibition of immunoprecipitation. Gatenby PA, et al. **Clin Exp Immunol** 1990 Feb; 79(2):158–63

COMPLEMENT 4B

ANALYSIS

Complement C4 allotypes and psoriasis. Cvorišćec D, et al. **Clin Chem** 1989 Oct;35(10):2142

Hypomorphic C4B* 15 variant of the fourth component of complement. Christenson MJ, et al. **FEBS Lett** 1990 Jan 29;260(2):183–6

Sandwich enzyme–linked immunosorbent assays for the quantification of the C4 isotypes (C4A and C4B) in human plasma. Chrispeels J, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):5–12

DEFICIENCY

C4B deficiency in two siblings with IgA nephropathy. Wyatt RJ, et al. **Am J Kidney Dis** 1990 Jan;15(1):66–71

C4B deficiency: a risk factor for bacteremia with encapsulated organisms. Bishof NA, et al. **J Infect Dis** 1990 Jul;162(1):248–50

From the National Institutes of Health. Raub W. **JAMA** 1989 Dec 1;262(21):2978

GENETICS

Polymorphism of the human complement component C4. Campbell RD, et al. **Exp Clin Immmunogenet** 1990; 7(1):69–84 (73 ref.)

Unequal expression of complement C4A and C4B genes in rheumatoid synovial cells, human monocytoid and hepatoma–derived cell lines. Falus A, et al. **Immunology** 1989 Sep;68(1):133–6

Substitution of a single amino acid (aspartic acid for histidine) converts the functional activity of human complement C4B to C4A. Carroll MC, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6868–72

Marked shortage of C4B DNA polymorphism among insulin–dependent diabetic patients. Marcelli–Barge A, et al. **Res Immunol** 1990 Feb;141(2):117–28

The absence of 21–OH A and C4 B genes is a constant characteristic of the "Sardinian" HLA extended haplotype A30 Cw5 B18 BfF1 DR3 DRw52 DQw?. Carcassi C, et al. **Tissue Antigens** 1989 Aug;34(2):85–9

A new duplication C4B*1,12 at the C4B locus associated with BF*S07 in a Tunisian population. Gorgi Y, et al. **Tissue Antigens** 1990 May;35(5):217–9

Characterization of two hybrid C4 allotypes (C4A*12 and C4B*3) by electrophoretic, serological and restriction fragment length polymorphism analyses. McLean RH, et al. **Tissue Antigens** 1990 Feb;35(2):75–81

IMMUNOLOGY

Differences between C4A and C4B in the handling of immune complexes: the enhancement of CR1 binding is more important than the inhibition of immunoprecipitation. Gatenby PA, et al. **Clin Exp Immunol** 1990 Feb; 79(2):158–63

METABOLISM

The ontogenesis of Fc gamma receptors and complement receptors CR1 in human peripheral nerve. Vedeler CA, et al. **Acta Neuropathol (Berl)** 1990;80(1):35–40

Evidence that C4b–binding protein is an acute phase protein. Saeki T, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1446–51

Molecular analysis of the murine C4b–binding protein gene. Chromosome assignment and partial gene organization. Barnum SR, et al. **Biochemistry** 1989 Oct 17;28(21):8312–7

High affinity interaction between C4b–binding protein and vitamin K–dependent protein S in the presence of calcium. Suggestion of a third component in blood regulating the interaction. Dahlbäck B, et al. **J Biol Chem** 1990 Sep 25; 265(27):16082–7

Localization of the covalent C3b–binding site on C4b within the complement classical pathway C5 convertase, C4b2a3b. Kozono H, et al. **J Biol Chem** 1990 Aug 25;265(24):14444–9

Assembly of protein S and C4b–binding protein on membranes. Schwalbe R, et al. **J Biol Chem** 1990 Sep 25; 265(27):16074–81

The binding site of human C4b–binding protein on complement C4 is localized in the alpha'–chain. Hessing M, et al. **J Immunol** 1990 Apr 1;144(7):2632–7

The localization of heparin–binding fragments on human C4b–binding protein. Hessing M, et al. **J Immunol** 1990 Jan 1;144(1):204–8

Zinc ions inhibit factor I–mediated release of CR1–bound immune complexes and degradation of cell–bound complement factors C3b and C4b. Jepsen HH, et al. **Scand J Immunol** 1990 Apr;31(4):397–403

COMPLEMENT 5

Adsorption of unactivated complement proteins by hemodialysis membranes. Cheung AK. **Am J Kidney Dis** 1989 Dec;14(6):472–7

ANALYSIS

[Immunohistochemical C5b–9–complement complex demonstration in early stages of myocardial necroses using paraffin sections] Thomsen H, et al. **Z Rechtsmed** 1990; 103(3):199–206 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

H19, a surface membrane molecule involved in T–cell activation, inhibits channel formation by human complement. Whitlow MB, et al. **Cell Immunol** 1990 Mar; 126(1):176–84

BIOSYNTHESIS

Synthesis of complement component C5 by human B and T lymphoblastoid cell lines. Reed W, et al. **Immunogenetics** 1990;31(3):145–51

Cytokine regulation of C3 and C5 production by the human type II pneumocyte cell line, A549. Rothman BL, et al. **J Immunol** 1990 Jul 15;145(2):592–8

DEFICIENCY

Combined complete C5 and partial C4 deficiency in humans: clinical consequences and complement–mediated functions in vitro. Gianella–Borradori A, et al. **Clin Immunol Immunopathol** 1990 Apr;55(1):41–55

Tritiated thymidine incorporation and the development of an interstitial lesion in the bronchiolar–alveolar regions of the lungs of normal and complement deficient mice after inhalation of chrysotile asbestos. McGavran PD, et al. **J Environ Pathol Toxicol Oncol** 1989 Dec;9(5–6):377–91

Renal injury in DOCA–salt hypertensive C5–sufficient and C5–deficient mice. Raij L, et al. **Kidney Int** 1989 Oct; 36(4):582–92

[2 families with meningococcal infection and a hereditary disorder of the 5th component of the complement system] Fijen CA, et al. **Ned Tijdschr Geneeskd** 1989 Sep 9; 133(36):1796–800 (35 ref.) (Eng. Abstr.) **(Dut)**

DRUG EFFECTS

Non–enzymic activation of the fifth component of human complement, by oxygen radicals. Some properties of the activation product, C5b–like C5. Vogt W, et al. **Mol Immunol** 1989 Dec;26(12):1133–42

GENETICS

Structural homologies of component C5 of human complement with components C3 and C4 by neutron scattering. Perkins SJ, et al. **Biochemistry** 1990 Feb 6; 29(5):175–80

Deficiency of the murine fifth complement component (C5). A 2–base pair gene deletion in a 5'–exon. Wetsel RA, et al. **J Biol Chem** 1990 Feb 15;265(5):2435–40

ISOLATION & PURIFICATION

Isolation of the fifth component of the bovine complement system. Aston WP, et al. **Vet Immunol Immunopathol** 1990 Apr;24(4):301–12

[Components of human complement system. Testing and isolation of C3 and C5] Kosiak AV, et al. **Biokhimiia** 1990 Feb;55(2):276–84 (Eng. Abstr.) **(Rus)**

METABOLISM

Demonstration of neutrophil chemotactic anaphylatoxins in human dandruff. Kikuchi T, et al. **Arch Dermatol Res** 1989; 281(7):482–6

Complete primary structure and functional characterization of the sixth component of the human complement system. Identification of the C5b–binding domain in complement C6. Haefliger JA, et al. **J Biol Chem** 1989 Oct 25; 264(30):18041–51

[Clinical significance of the fifth component of complement analysis] Takemura S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:659–61 **(Jpn)**

PHYSIOLOGY

Role of IgG and complement component C5 in the initial course of experimental cryptococcosis. Dromer F, et al. **Clin Exp Immunol** 1989 Dec;78(3):412–7

Mediator–induced activation of xanthine oxidase in endothelial cells. Friedl HP, et al. **FASEB J** 1989 Nov; 3(13):2512–8

Functional properties of the asialo–fifth component of human complement. Schultz DR, et al. **J Immunol** 1990 Jul 15; 145(2):655–61

Modulation of alveolar macrophage leukotriene B4 released by complement component C5. Robbins RA, et al. **J Lab Clin Med** 1990 Apr;115(4):497–503

Terminal complement complex and endothelial cells. Suttorp N, et al. **Z Kardiol** 1989;78 Suppl 6:140–2

COMPLEMENT 5A

ANALYSIS

Anaphylatoxins and terminal complement complexes in pancreatitis. Evidence of complement activation in plasma and ascites fluid of patients with acute pancreatitis. Roxvall LI, et al. **Arch Surg** 1990 Jul;125(7):918–21

Anaphylatoxins C3a and C5a adsorption on acrylonitrile membrane of hollow–fiber and plate dialyzer—an in vivo study. Kandus A, et al. **Int J Artif Organs** 1990 Mar; 13(3):176–80

ANTAGONISTS & INHIBITORS

Proposed mechanism of the inflammatory attacks in familial Mediterranean fever. Matzner Y, et al. **Arch Intern Med** 1990 Jun;150(6):1289–91

Partial characterization of a C5a–inhibitor in peritoneal fluid. Ayesh SK, et al. **J Immunol** 1990 Apr 15;144(8):3066–70

BIOSYNTHESIS

The effect of FUT–175 (Nafamstat Mesilate) on C3a, C4a and C5a generation in vitro and inflammatory reactions in vivo. Issekutz AC, et al. **Int J Immunopharmacol** 1990; 12(1):1–9

CEREBROSPINAL FLUID

Inhibition of complement–factor–5a–induced inflammatory reactions by prostaglandin E2 in experimental meningitis. Kadurugamuwa JL, et al. **J Infect Dis** 1989 Oct; 160(4):715–9

IMMUNOLOGY

Inflammatory properties of human C5a and C5a des Arg in mast cell–depleted human skin [letter; comment] Lehmann P. **J Invest Dermatol** 1990 Apr;94(4):499 Comment on: J Invest Dermatol 1989 Sep;93(3):417–22.

METABOLISM

Inactivation of chemotactic activity of C5a by the serratial 56–kilodalton protease. Oda T, et al. **Infect Immun** 1990 May;58(5):1269–72

Chemotactic factor inactivator interaction with Gc–globulin (vitamin D–binding protein). A mechanism of modulating the chemotactic activity of C5a. Robbins RA, et al. **J Immunol** 1990 Mar 15;144(6):2371–6

Regulation of C5a and formyl peptide receptor expression on human polymorphonuclear leukocytes. Van Epps DE, et al. **J Immunol** 1990 Feb 1;144(3):1062–8

Relationship of chemotactic receptors for formyl peptide and C5a to CR1, CR3, and Fc receptors on human neutrophils. Van Epps DE, et al. **J Leukoc Biol** 1990 Jun;47(6):519–27

Mechanism of polymorphonuclear leukocytes accumulation examined using inhibitors of complement and arachidonic acid cascade in rats treated with OK–432. Kato H, et al. **Nat Immun Cell Growth Regul** 1989;8(5):290–300

[Effects of nicotine and cigarette smoke extracts on plasma level of complement C3a and C5a, thromboxane B2 and 6–keto PGF1 alpha in rabbits] Kihira Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Dec; 27(12):1495–501 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Comparison of LTB4– and C5a–stimulated chemotaxis of isolated human neutrophils: difference revealed by cell migration in thick filters using the multiwell cap procedure. Psychoyos S, et al. **Agents Actions** 1989 Jun;27(3–4):380–4

C5a–induced neutrophilia. A primary humoral mechanism for recruitment of neutrophils. Kajita T, et al. **Am J Pathol** 1990 Aug;137(2):467–77

Activation of human platelets by C5a–stimulated neutrophils: a role for cathepsin G. Ferrer–Lopez P, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):C1100–7

Quantitative relationships between single–cell and cell–population model parameters for chemosensory migration responses of alveolar macrophages to C5a. Farrell BE, et al. **Cell Motil Cytoskeleton** 1990;16(4):279–93

Thromboxane is produced in response to intracoronary infusions of complement C5a in pigs. Cyclooxygenase blockade does not reduce the myocardial ischemia and leukocyte accumulation. Ito BR, et al. **Circ Res** 1989 Nov; 65(5):1220–32

Role of thromboxane A2 in the cardiovascular response to intracoronary C5a. Stahl GL, et al. **Circ Res** 1990 Apr; 66(4):1103–11

Recombinant C5a enhances interleukin 1 and tumor necrosis factor release by lipopolysaccharide–stimulated monocytes and macrophages. Cavaillon JM, et al. **Eur J Immunol** 1990 Feb;20(2):253–7

Agonist–sensitive binding of a photoreactive GTP analog to a G–protein alpha–subunit in membranes of HL–60 cells. Offermans S, et al. **FEBS Lett** 1990 Jan 15;260(1):14–8

Complement C5a activation of phospholipase D in human neutrophils. A major route to the production of phosphatidates and diglycerides. Mullmann TJ, et al. **J Immunol** 1990 Mar 1;144(5):1901–8

PHYSIOLOGY

Regulation of the human autologous T cell proliferation by endogenously generated C5a. Montz H, et al. **Cell Immunol** 1990 May;127(2):337–51

C5a/C5ades–Arg–induced increase in blood pressure in the guinea pig: role of thromboxane. Fraser DG, et al. **Immunopharmacology** 1990 Jan–Feb;19(1):59–68

Calcium mobilization in C5a–stimulated adult and newborn bovine neutrophils. Doré M, et al. **Inflammation** 1990 Feb; 14(1):71–82

Histamine and sulfidoleukotriene release from human basophils: different effects of antigen, anti–IgE, C5a, f–Met–Leu–Phe and the novel neutrophil–activating peptide NAF. Dahinden CA, et al. **Int Arch Allergy Appl Immunol** 1989;90(2):113–8

Effects of anti–C5a antibodies on human polymorphonuclear leukocyte function: chemotaxis, chemiluminescence, and lysosomal enzyme release. Hatherill JR, et al. **J Biol Response Mod** 1989 Dec;8(6):614–24

Role of C5a in the induction of tumoricidal activity in C3H/HeJ (Lpsd) and C3H/OuJ (Lpsn) macrophages. Hogan MM, et al. **J Leukoc Biol** 1989 Dec;46(6):565–70

TOXICITY

Cardiac dysfunction caused by recombinant human C5A anaphylatoxin: mediation by histamine, adenosine and cyclooxygenase arachidonate metabolites. del Balzo U, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):171–9

COMPLEMENT 5A, DES–ARGININE

Three–dimensional structure of porcine C5adesArg from 1H nuclear magnetic resonance data. Williamson MP, et al. **Biochemistry** 1990 Mar 27;29(12):2895–905

IMMUNOLOGY

Inflammatory properties of human C5a and C5a des Arg in mast cell–depleted human skin [letter; comment] Lehmann P. **J Invest Dermatol** 1990 Apr;94(4):499 Comment on: J Invest Dermatol 1989 Sep;93(3):417–22.

PHARMACOLOGY

Rabbit leukocytes activated by C5a des Arg and N–formyl–methionyl–leucyl–phenylalanine promote endothelial prostacyclin production. Evidence for a role of hydrogen peroxide. Rampart M, et al. **Eicosanoids** 1989; 2(2):109–15

Identification of the C5a des Arg cochemotaxin. Perez HD, et al. **Trans Assoc Am Physicians** 1988;101:242–9

PHYSIOLOGY

C5a/C5ades–Arg–induced increase in blood pressure in the guinea pig: role of thromboxane. Fraser DG, et al. **Immunopharmacology** 1990 Jan–Feb;19(1):59–68

[The effect of zymosan activated blood plasma (products of the activation of complement system) on heart function] Shebeko VI, et al. **Dokl Akad Nauk SSSR** 1989; 309(3):753–6 **(Rus)**

COMPLEMENT 6

ANALYSIS

[Clinical significance of C6, C7, C9 and C1–INH analysis] Akagaki Y, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:662–5 **(Jpn)**

DEFICIENCY

Prophylaxis against Neisseria meningitidis infections and antibody responses in patients with deficiency of the sixth component of complement. Potter PC, et al. **J Infect Dis** 1990 May;161(5):932–7

GENETICS

The assignment of the genes coding for human complement components C6 and C7 to chromosome 5. Jeremiah SJ, et al. **Ann Hum Genet** 1990 May;54 (Pt 2):141-7

Complement C6 and C7 polymorphisms in Japanese patients with chronic glomerulonephritis. Nishimukai H, et al. **Hum Hered** 1989;39(3):150-5

Complete primary structure and functional characterization of the sixth component of the human complement system. Identification of the C5b-binding domain in complement C6. Haefliger JA, et al. **J Biol Chem** 1989 Oct 25; 264(30):18041-51

[Genetic polymorphism of complement component C6 in four Chinese populations in Guangdong province: three new variants] Lu B, et al. **I Chuan Hsueh Pao** 1988; 15(6):455-61 (Eng. Abstr.) (Chi)

PHYSIOLOGY

Relative contributions of chemo-attractant and terminal components of complement to anti-glomerular basement membrane (GBM) glomerulonephritis. Tipping PG, et al. **Clin Exp Immunol** 1989 Dec;78(3):444-8

COMPLEMENT 7

ANALYSIS

[Clinical significance of C6, C7, C9 and C1-INH analysis] Akagaki Y, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:662-5 (Jpn)

DEFICIENCY

Prevalence of hereditary properdin, C7 and C8 deficiencies in patients with meningococcal infections. Schlesinger M, et al. **Clin Exp Immunol** 1990 Sep;81(3):423-7

Familial deficiency of the seventh component of complement associated with recurrent meningococcal infections. Nürnberger W, et al. **Eur J Pediatr** 1989 Aug;148(8):758-60

DNA polymorphism of the human complement component C7 gene in familial deficiencies. Coto E, et al. **Hum Genet** 1990 Jul;85(2):251-2

Post-trauma meningococcemia in C7 deficiency [letter] Malnick SD, et al. **Isr J Med Sci** 1990 Aug;26(8):479

Post-traumatic meningococcemia in a patient with deficiency of the C7 complement component. Molad Y, et al. **Isr J Med Sci** 1990 Feb;26(2):90-2

GENETICS

The assignment of the genes coding for human complement components C6 and C7 to chromosome 5. Jeremiah SJ, et al. **Ann Hum Genet** 1990 May;54 (Pt 2):141-7

Complement C6 and C7 polymorphisms in Japanese patients with chronic glomerulonephritis. Nishimukai H, et al. **Hum Hered** 1989;39(3):150-5

TaqI polymorphism in the complement component C7 gene. Coto E, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1929

COMPLEMENT 8

ANTAGONISTS & INHIBITORS

Inhibition of the formation of the complement membrane-attack complex by a monoclonal antibody to the complement component C8 alpha subunit. Abraha A, et al. **Biochem J** 1989 Dec 15;264(3):933-6

DEFICIENCY

Prevalence of hereditary properdin, C7 and C8 deficiencies in patients with meningococcal infections. Schlesinger M, et al. **Clin Exp Immunol** 1990 Sep;81(3):423-7

Two distinct abnormalities in patients with C8 alpha-gamma deficiency. Low level of C8 beta chain and presence of dysfunctional C8 alpha-gamma subunit. Tedesco F, et al. **J Clin Invest** 1990 Sep;86(3):884-8

Identification of the heterozygotes for deficiency of the beta-subunit of the eighth component of complement by reduced levels of C8 beta and increased amounts of free C8 alpha-gamma. Nürnberger W, et al. **Pediatr Res** 1990 Mar;27(3):234-8

GENETICS

Chromosomal assignment of genes encoding the alpha, beta, and gamma subunits of human complement protein C8: identification of a close physical linkage between the alpha and the beta loci. Kaufman KM, et al. **Genomics** 1989 Oct; 5(3):475-80

DNA polymorphism of the human complement C8 beta gene: formal genetics and intragenic localization. Herrmann D, et al. **Immunogenetics** 1989;30(4):291-5

IMMUNOLOGY

The homologous restriction factor is immunologically related to complement components C8 and C9 and to lymphocyte pore-forming protein perforin through cysteine-rich domains. Young JD, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):648-52

Anti-idiotypic antibodies derived against C8, C9 and perforin bind homologous restriction factor. Young JD, et al. **J Immunol Methods** 1990 Mar 27;128(1):133-42

ISOLATION & PURIFICATION

Purification of C8 and C9 from rat serum. Jones J, et al. **Complement Inflamm** 1990;7(1):42-51

METABOLISM

Regulation of the membrane attack complex of complement. Evidence that C8 gamma is not the target of homologous restriction factors. Davé SJ, et al. **J Immunol** 1990 Apr 15;144(8):3087-90

COMPLEMENT 9

ANALYSIS

[Clinical significance of C6, C7, C9 and C1-INH analysis] Akagaki Y, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:662-5 (Jpn)

ANTAGONISTS & INHIBITORS

H19, a surface membrane molecule involved in T-cell activation, inhibits channel formation by human complement. Whitlow MB, et al. **Cell Immunol** 1990 Mar; 126(1):176-84

BIOSYNTHESIS

Quantification of non-activated (native) complement component C9 synthesized by alveolar macrophages from patients with sarcoidosis. Pettersen HB, et al. **Scand J Immunol** 1990 May;31(5):657-63

CEREBROSPINAL FLUID

Terminal component of complement C9 in CSF and plasma of patients with MS and aseptic meningitis. Halawa I, et al. **Acta Neurol Scand** 1989 Aug;80(2):130-5

Terminal component of complement (C9) in the cerebrospinal fluid of patients with multiple sclerosis and neurologic controls. Rodriguez M, et al. **Neurology** 1990 May; 40(5):855-7

DEFICIENCY

Paroxysmal nocturnal haemoglobinuria with coexisting deficiency of the ninth component of complement: lack of massive haemolytic attack. Yonemura Y, et al. **Br J Haematol** 1990 Jan;74(1):108-13

High-incidence of C9 deficiency throughout Japan: there are no significant differences in incidence among eight areas of Japan. Hayama K, et al. **Int Arch Allergy Appl Immunol** 1989;90(4):400-4

GENETICS

Multiple RFLPs of human complement component nine (C9) detected by TaqI. Rogne S, et al. **Nucleic Acids Res** 1990 May 25;18(10):3112

IMMUNOLOGY

The homologous restriction factor is immunologically related to complement components C8 and C9 and to lymphocyte pore-forming protein perforin through cysteine-rich domains. Young JD, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):648-52

Deposition of C3, C9 neoantigen and vitronectin (S-protein of complement) in lichen planus pemphigoides. Hintner H, et al. **Br J Dermatol** 1990 Jul;123(1):39-47

Several epitopes on native human complement C9 are involved in interaction with the C5b-8 complex and other C9 molecules. Kontermann R, et al. **Eur J Immunol** 1990 Mar;20(3):623-8

Anti-idiotypic antibodies derived against C8, C9 and perforin bind homologous restriction factor. Young JD, et al. **J Immunol Methods** 1990 Mar 27;128(1):133-42

N-deglycosylation of human complement component C9 reduces its hemolytic activity. Kontermann R, et al. **Mol Immunol** 1989 Dec;26(12):1125-32

ISOLATION & PURIFICATION

Purification of C8 and C9 from rat serum. Jones J, et al. **Complement Inflamm** 1990;7(1):42-51

METABOLISM

Immunohistochemical localisation of terminal complement component C9 in experimental allergic encephalomyelitis. Linington C, et al. **Acta Neuropathol (Berl)** 1989;79(1):78-85

C9 and factor B as acute phase proteins and their diagnostic and prognostic value in disease. Adinolfi M, et al. **Exp Clin Immunogenet** 1988;5(2-3):123-32 (19 ref.)

The complement-inhibitory activity of CD59 resides in its capacity to block incorporation of C9 into membrane C5b-9. Rollins SA, et al. **J Immunol** 1990 May 1; 144(9):3478-83

ULTRASTRUCTURE

Localization and molecular modelling of the membrane-inserted domain of the ninth component of human complement and perforin. Peitsch MC, et al. **Mol Immunol** 1990 Jul;27(7):589-602

Comparison of channels formed by poly C9, C5b-8 and the membrane attack complex of complement. Zalman LS, et al. **Mol Immunol** 1990 Jun;27(6):533-7

COMPLEMENT ACTIVATING ENZYMES

ANTAGONISTS & INHIBITORS

Peptide inhibitors of C3 breakdown. Peake P, et al. **Clin Exp Immunol** 1990 Mar;79(3):454-8

Regulation of C5 convertase activity by properdin, factors B and H. Weiler JM. **Immunol Res** 1989;8(4):305-15

Inhibition of the alternative C3 convertase and classical C5 convertase of complement by group A streptococcal M protein. Hong K, et al. **Infect Immun** 1990 Aug; 58(8):2535-41

DEFICIENCY

Complete and partial deficiencies of complement factor D in a Dutch family. Hiemstra PS, et al. **J Clin Invest** 1989 Dec;84(6):1957-61

IMMUNOLOGY

Human anti-idiotypic antibody responses to autoantibody against the alternative pathway C3 convertase. Spitzer RE, et al. **Clin Immunol Immunopathol** 1990 Oct;57(1):19-31

Monoclonal anti-human C3d antibodies: stabilization of the alternative pathway C3 convertase. Tanuma Y, et al. **Immunology** 1989 Dec;68(4):445-8

A monoclonal antibody which blocks the function of factor D of human complement. Pascual M, et al. **J Immunol Methods** 1990 Mar 9;127(2):263-9

Evidence that production of autoantibody to the alternative pathway C3 convertase is a normal physiologic event. Spitzer RE, et al. **J Pediatr** 1990 May;116(5):S103-8

Autoantibody to complement neoantigens in membranoproliferative glomerulonephritis. Strife CF, et al. **J Pediatr** 1990 May;116(5):S98-102

METABOLISM

The low C5 convertase activity of the C4A6 allotype of human complement component C4. Kinoshita T, et al. **Biochem J** 1989 Aug 1;261(3):743-8

Effect of decay-accelerating factor on the assembly of the classical and alternative pathway C3 convertases in the presence of C4 or C3 nephritic factor. Ito S, et al. **Immunology** 1989 Dec;68(4):449-52

Murine membrane inhibitor of complement which accelerates decay of human C3 convertase. Kameyoshi Y, et al. **Immunology** 1989 Dec;68(4):439-44

Localization of the covalent C3b-binding site on C4b within the complement classical pathway C5 convertase, C4b2a3b. Kozono H, et al. **J Biol Chem** 1990 Aug 25;265(24):14444-9

URINE

Molecular and functional identification and purification of complement component factor D from urine of patients with chronic renal failure. Miyata T, et al. **Mol Immunol** 1990 Jul;27(7):637-44

COMPLEMENT ACTIVATION

Different activation patterns in the plasma kallikrein-kinin and complement systems during coronary bypass surgery. Kongsgaard UE, et al. **Acta Anaesthesiol Scand** 1989 Jul; 33(5):343-7

Mechanisms and consequences of complement activation during hemodialysis. Kazatchkine MD, et al. **Adv Exp Med Biol** 1989;260:19-26

Complement activation and white cell sequestration in postischemic skeletal muscle. Rubin BB, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H525-31

Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting. Videm V, et al. **Ann Thorac Surg** 1990 Sep;50(3):387-91

The psoriasis-associated antigen, pso p27, participates in the formation of complement activating immune-complexes in psoriatic scale. Asbakk K, et al. **APMIS** 1990 Feb; 98(2):143-9

Anaphylatoxins and terminal complement complexes in pancreatitis. Evidence of complement activation in plasma and ascites fluid of patients with acute pancreatitis. Roxvall LI, et al. **Arch Surg** 1990 Jul;125(7):918-21

Activation of the complement system in systemic sclerosis. Relationship to clinical severity. Senaldi G, et al. **Arthritis Rheum** 1989 Oct;32(10):1262-7

Heparin-coated equipment reduces complement activation during cardiopulmonary bypass in the pig. Nilsson L, et al. **Artif Organs** 1990 Feb;14(1):46-8

Heparin free hemodialysis does not cause fibrin consumptive coagulopathy and maintains alternate pathway complement activation. Liboro R, et al. **ASAIO Trans** 1990 Apr-Jun; 36(2):86-9

Limulus amebocyte lysate reactivity, complement activation, and patients' symptoms. Comparison of dialyzer membranes. Moss AH, et al. **ASAIO Trans** 1989 Oct-Dec; 35(4):812-5

Immune complex mediated activation of the classical complement pathway. Borsos T. **Behring Inst Mitt** 1989 Jul;(84):93-101 (44 ref.)

Spontaneous activation of reconstituted and serum C1 and the role of C1-inhibitor. Schumaker VN, et al. **Behring Inst Mitt** 1989 Jul;(84):102-10

Control of immune complexes by the classical pathway. Whaley K, et al. **Behring Inst Mitt** 1989 Jul;(84):111–20 (55 ref.)

Identification of a human non–interferon lymphokine activating monocyte complement biosynthesis. Drouet C, et al. **Biochem J** 1989 Oct 1;263(1):157–64

How naturally occurring anti–band 3 antibodies stimulate C3b deposition to senescent and oxidatively stressed red blood cells. Lutz HU, et al. **Biomed Biochim Acta** 1990; 49(2–3):S224–9

Polymorphonuclear oxygen free radical production and complement activation induced by dialysis membranes as assayed in an experimental model. Cappelli G, et al. **Blood Purif** 1989;7(6):293–300

Immune system response in Alzheimer's disease. McGeer PL, et al. **Can J Neurol Sci** 1989 Nov;16(4 Suppl):516–27

Complement activation in Brazilian pemphigus foliaceus. de Messias IT, et al. **Clin Exp Dermatol** 1989 Jan;14(1):51–5

S protein binds to serum–treated agarose beads independently of complement activation and the formation of the terminal complement complex on the beads. Hetland G, et al. **Clin Exp Immunol** 1990 Mar;79(3):459–62

Differences in the metabolism of C4 isotypes in patients with complement activation. Peake PW, et al. **Clin Exp Immunol** 1989 Oct;78(1):49–53

Complement activation and the prognostic value of C3a in patients at risk of adult respiratory distress syndrome. Zilow G, et al. **Clin Exp Immunol** 1990 Feb;79(2):151–7

Alternative complement pathway in hypocomplementemic/normal C1s–C1 inhibitor complex patients with SLE. Levy RA, et al. **Clin Exp Rheumatol** 1990 Jan–Feb;8(1):11–5

Complement activation by immunoglobulin does not depend solely on C1q binding. Bindon CI, et al. **Eur J Immunol** 1990 Feb;20(2):277–81

Regulation of the human alternative complement pathway: formation of a ternary complex between factor H, surface–bound C3b and chemical groups on nonactivating surfaces. Carreno MP, et al. **Eur J Immunol** 1989 Nov; 19(11):2145–50

Complement regulation on the surface of cultured schistosomula and adult worms of Schistosoma mansoni. Marikovsky M, et al. **Eur J Immunol** 1990 Jan;20(1):221–7

Human complement factor H: an additional gene product of 43 kDa isolated from human plasma shows cofactor activity for the cleavage of the third component of complement. Misasi R, et al. **Eur J Immunol** 1989 Sep; 19(9):1765–8

Anti–inflammatory activity of human IgA antibodies and their Fab alpha fragments: inhibition of IgG–mediated complement activation. Russell MW, et al. **Eur J Immunol** 1989 Dec;19(12):2243–9

Activation of the complement system in primary sclerosing cholangitis. Senaldi G, et al. **Gastroenterology** 1989 Dec; 97(6):1430–4

Interaction of Campylobacter pylori... [letter; comment] Crabtree JE, et al. **Gut** 1989 Dec;30(12):1795 Comment on: Gut 1989 Jul;30(7):906–11.

Complement activation within the coeliac small intestine is localised to Brunner's glands [see comments] Gallagher RB, et al. **Gut** 1989 Nov;30(11):1568–73 Comment in: Gut 1990 May;31(5):583–4.

Expression of HRF20, a regulatory molecule of complement activation, on peripheral blood mononuclear cells. Hideshima T, et al. **Immunology** 1990 Mar;69(3):396–401

Monoclonal anti–human C3d antibodies: stabilization of the alternative pathway C3 convertase. Tanuma Y, et al. **Immunology** 1989 Dec;68(4):445–8

Antibody enhances killing of Tritrichomonas foetus by the alternative bovine complement pathway. Aydintug MK, et al. **Infect Immun** 1990 Apr;58(4):944–8

Trypanosoma cruzi–induced suppression of human peripheral blood lymphocytes activated via the alternative (CD2) pathway. Beltz LA, et al. **Infect Immun** 1990 Apr; 58(4):1114–6

Activation of C3 and binding to Aspergillus fumigatus conidia and hyphae. Kozel TR, et al. **Infect Immun** 1989 Nov;57(11):3412–7

Enhancement of antigen–induced bronchoconstriction in the guinea pig after intravascular complement activation with cobra venom factor. Regal JF. **Int Arch Allergy Appl Immunol** 1990;91(1):86–94

Biological and immunological properties of Sugi basic protein–pullulan conjugate. II. Is the reduced ability to elicit the Arthus reaction based on the poor activation of complement by immune complex consisting of anti–Sugi basic protein and Sugi basic protein–pullulan? Usui M, et al. **Int Arch Allergy Appl Immunol** 1990;91(1):74–9

Complement activated leucopenia during hemodialysis: effect of pulse methyl–prednisolone. Enia G, et al. **Int J Artif Organs** 1990 Feb;13(2):98–102

Value of C–reactive protein in reflecting the magnitude of complement activation in children undergoing open heart surgery. Aronen M, et al. **Intensive Care Med** 1990; 16(2):128–32

In vitro phosphorylation of human complement factor C3 by protein kinase A and protein kinase C. Effects on the classical and alternative pathways. Forsberg PO, et al. **J Biol Chem** 1990 Feb 15;265(5):2941–6

Localization of the covalent C3b–binding site on C4b within the complement classical pathway C5 convertase, C4b2a3b. Kozono H, et al. **J Biol Chem** 1990 Aug 25;265(24):14444–9

The mechanism of carbohydrate–mediated complement activation by the serum mannan–binding protein. Ohta M, et al. **J Biol Chem** 1990 Feb 5;265(4):1980–4

Complement activation during hemodialysis. Agostoni A, et al. **J Biomater Appl** 1989 Oct;4(2):102–22 (88 ref.)

A knowledge–based system for automatic interpretation of an analytical profile of complement factors. Wiener F, et al. **J Clin Lab Anal** 1989;3(5):287–95

Review: assessment of complement activation in clinical immunology laboratories: time for reappraisal? Peakman M, et al. **J Clin Pathol** 1989 Oct;42(10):1018–25 (102 ref.)

Isolation and characterization of a complement–activating lipid extracted from human atherosclerotic lesions. Seifert PS, et al. **J Exp Med** 1990 Aug 1;172(2):547–57

Complement activation limits the rate of in vitro treponemicidal activity and correlates with antibody–mediated aggregation of Treponema pallidum rare outer membrane protein. Blanco DR, et al. **J Immunol** 1990 Mar 1;144(5):1914–21

Purification of 1F5 antigen that prevents complement attack on homologous cell membranes. Harada R, et al. **J Immunol** 1990 Mar 1;144(5):1823–8

Binding of the pentamer/hexamer forms of mannan–binding protein to zymosan activates the proenzyme C1r2C1s2 complex, of the classical pathway of complement, without involvement of C1q. Lu JH, et al. **J Immunol** 1990 Mar 15;144(6):2287–94

Complement activation induced by human C–reactive protein in mildly acidic conditions. Miyazawa K, et al. **J Immunol** 1990 Jul 15;145(2):650–4

Host–specific evasion of the alternative complement pathway by schistosomes correlates with the presence of a phospholipase C–sensitive surface molecule resembling human decay accelerating factor. Pearce EJ, et al. **J Immunol** 1990 Apr 1;144(7):2751–6

Binding and release of C3 from Leishmania donovani promastigotes during incubation in normal human serum. Puentes SM, et al. **J Immunol** 1989 Dec 1;143(11):3743–9

Activation of the alternative pathway of complement by twelve different rabbit–mouse chimeric transfectoma IgA isotypes. Schneiderman RD, et al. **J Immunol** 1990 Jul 1; 145(1):233–7

Activation of complement on the surface of cells infected by human immunodeficiency virus. Spear GT, et al. **J Immunol** 1990 Feb 15;144(4):1490–6

Activation of the complement system during immunotherapy with recombinant IL–2. Relation to the development of side effects. Thijs LG, et al. **J Immunol** 1990 Mar 15; 144(6):2419–24

Anaphylactoid reactions mediated by autoantibodies to cholesterol in miniature pigs. Wassef NM, et al. **J Immunol** 1989 Nov 1;143(9):2990–5

Intra–assay complement activation may falsely indicate the presence of chemotactic factors in a test plasma or serum [letter] Bergh K, et al. **J Immunol Methods** 1989 Sep 29; 123(1):147–8

Assay of complement activation in mouse serum by ELISA. Morrison LJ, et al. **J Immunol Methods** 1990 Feb 9; 126(2):191–7

A monoclonal antibody which blocks the function of factor D of human complement. Pascual M, et al. **J Immunol Methods** 1990 Mar 9;127(2):263–9

Complement activation by pulsed tunable dye laser in normal skin and hemangioma. Gay–Crosier F, et al. **J Invest Dermatol** 1990 Apr;94(4):426–31

Evacuation of microscopic air bubbles from Dacron reduces complement activation and platelet aggregation. Kalman PG, et al. **J Vasc Surg** 1990 Apr;11(4):591–8

Tumor cells treated with vaccinia virus can activate the alternative pathway of mouse complement. Wakamiya N, et al. **Jpn J Cancer Res** 1989 Aug;80(8):765–70

Complement activation and neutrophil dysfunction in burned patients with sepsis—a study of two cases. Utoh J, et al. **Jpn J Surg** 1989 Jul;19(4):462–7

Activation of complement by hemodialysis membranes: polyacrylonitrile binds more C3a than cuprophan. Cheung AK, et al. **Kidney Int** 1990 Apr;37(4):1055–9

Effects of systemic complement activation and neutrophil–mediated pulmonary injury on the retention and metastasis of circulating cancer cells in mouse lungs. Orr FW, et al. **Lab Invest** 1990 Mar;62(3):331–8

Lipid peroxidation and lung ultrastructural changes in an experimental model of leukocyte–mediated pulmonary injury. Borrelli E, et al. **Lung** 1990;168(1):35–42

The design of cellulosic based membranes that do not activate complement. Johnson RJ. **Med Prog Technol** 1989; 15(1–2):77–81

Complement activation mediates cellular adhesion to synthetic biomaterials. Ward CA, et al. **Med Prog Technol** 1989;15(1–2):63–75 (38 ref.)

Participation of the complement system in ischemia/reperfusion injury. Rubin B, et al. **Microcirc Endothelium Lymphatics** 1989 Jun–Oct; 5(3–5):207–21

Acceleration of site–to–site transfer of C1– by a monoclonal antibody to C1–s. Matsumoto M, et al. **Mol Immunol** 1989 Aug;26(8):697–703

Hypersensitivity reactions during haemodialysis: role of complement fragments and ethylene oxide antibodies. Lemke HD, et al. **Nephrol Dial Transplant** 1990;5(4):264–9

The influence of the geometry of the dialyzer and the composition of the dialysate in activating the complement system. Miranda VM, et al. **Nephron** 1990;54(1):26–31

Discrimination between activators and nonactivators of the alternative pathway of complement: regulation via a sialic acid/polyanion binding site on factor H. Meri S, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3982–6

Complement activation by biomaterials. Johnson RJ. **Prog Clin Biol Res** 1990;337:507–12

Post–centrifugal plasma filtration and complement activation. Smith JW, et al. **Prog Clin Biol Res** 1990;337:387–9

Comparative study of assays detecting complement activation. Complement–split product C3d (rocket immuno–electrophoresis) and C3d neodeterminants (ELISA). Espersen GT, et al. **Scand J Clin Lab Invest** 1990 Jun;50(4):389–93

The role of complement in immunohematology. Giles CM. **Transfusion** 1989 Nov–Dec;29(9):803–11 (74 ref.)

Complement: to be or not to be? [letter] Letendre P. **Transfusion** 1990 Jun;30(5):478–9

Studies on activation and levels of haemolytic complement of buffalo (Bubalus bubalis). 1. Classical complement pathway. Jain A, et al. **Vet Immunol Immunopathol** 1989 Dec;23(3–4):267–77

Activation of complement by bovine respiratory syncytial virus–infected cells. Kimman TG, et al. **Vet Immunol Immunopathol** 1989 Jul;21(3–4):311–25

Complement is not activated in AB0–hemolytic disease of the newborn: further support [letter] Carreras Vescio LA, et al. **Vox Sang** 1990;58(3):231

[Serum complement activation pathways and circulating anti–streptolysin–0 antibodies: diagnostic value in glomerulonephritis in children] Rabhi H, et al. **Arch Inst Pasteur Alger** 1986;55:99–105 (Eng. Abstr.) **(Fre)**

[Anemia of central origin and complement activation during Mycoplasma pneumoniae infection (letter)] Hamidou M, et al. **Presse Med** 1990 Jun 9;19(23):1104 **(Fre)**

[In–vivo activation of the 4th component of the complement system (C4) in premature and term infants with generalized bacterial infections] Nürnberger W, et al. **Klin Padiatr** 1990 May–Jun;202(3):141–6 (Eng. Abstr.) **(Ger)**

[Complement activation by killed polyvalent bacterial vaccine on the pleurodesis] Yoshio T, et al. **Arerugi** 1990 Apr;39(4):424–31 (Eng. Abstr.) **(Jpn)**

[Complement activation during cardiopulmonary bypass: mechanism and prevention] Togashi K, et al. **Kyobu Geka** 1989 Jul;42(7):529–32 (Eng. Abstr.) **(Jpn)**

[Improvement of extracorporeal circulation on the basis of anaphylatoxin levels, with special reference to oxygenation mechanisms and plasma denaturation by oxygen bubbling] Maeo Y. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct; 37(10):2166–74 (Eng. Abstr.) **(Jpn)**

[Complement activation and arachidonic acid metabolism] Takahashi K. **Nippon Rinsho** 1990 Jun;48(6):1310–5 **(Jpn)**

[Clinical significance of factors of the alternative pathway] Takemura S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:630–3 **(Jpn)**

[Clinical significance of hemolytic complement activity via classical pathway] Takemura S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:634–6 **(Jpn)**

[An experimental study on the severe type of alcoholic liver disease—a pathogenetic role of potentiated activation of complement system by endotoxin after chronic ethanol consumption] Arai M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 May;86(5):1089–95 (Eng. Abstr.) **(Jpn)**

[Stepwise dissociation of subcomponents of C1, the first component of human complement, upon activation on an affinity sorbent] Kozlov LV, et al. **Biokhimiia** 1989 Oct; 54(10):1745–51 (Eng. Abstr.) **(Rus)**

[A method of determining the kinetics of activation of the complement system] Leonova ES, et al. **Lab Delo** 1989; (12):21–3 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Reduction of complement activation during bypass by prime manipulation. Bonser RS, et al. **Ann Thorac Surg** 1990 Feb; 49(2):279–83

Anti–inflammatory drugs and the complement system. A condensation product of metacresolsulfonic acid and formaldehyde prevents instantly the complement activation in vitro. Gancevici GG, et al. **Arch Roum Pathol Exp Microbiol** 1989 Apr–Jun; 48(2):157–62

Effects of homologous and heterologous stroma–free hemoglobin and polyhemoglobin on complement activation, leucocytes and platelets. Ning J, et al. **Biomater Artif Cells Artif Organs** 1990;18(2):219–32

Oxygen mediated complement activation: an in–vitro study. Siriwardhana SA, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S116

Methylprednisolone in high doses gives different effects on the early and the late part of complement. Roeise O, et al. **Eur Surg Res** 1990;22(1):41–9

Mechanism of action of an inhibitor of complement–mediated prevention of immune precipitation. Ahmed AE, et al. **Immunology** 1990 Jun;70(2):139–44

Comparison of two hemodialysis membranes, polyacrylonitrile and cellulose acetate, on complement and coagulation systems. Moll S, et al. **Int J Artif Organs** 1990 May;13(5):273–9

Assays for plasma complement activation by x–ray contrast

media. Eaton S, et al. **Invest Radiol** 1990 Jul;25(7):789–92

Antiinflammatory effects of polypeptide growth factors. Platelet-derived growth factor, epidermal growth factor, and fibroblast growth factor inhibit the cytokine-induced expression of the alternative complement pathway activator factor B in human fibroblasts. Circolo A, et al. **J Biol Chem** 1990 Mar 25;265(9):5066–71

Human mannose-binding protein activates the alternative complement pathway and enhances serum bactericidal activity on a mannose-rich isolate of Salmonella. Schweinle JE, et al. **J Clin Invest** 1989 Dec;84(6):1821–9

Inhibitory activity of Jatropha multifida latex on classical complement pathway activity in human serum mediated by a calcium-binding proanthocyanidin. Kosasi S, et al. **J Ethnopharmacol** 1989 Nov;27(1–2):81–9

Complement activation by polystarch and gelatine volume expanders [letter] Watkins J, et al. **Lancet** 1990 Jan 27; 335(8683):233

Non-enzymic activation of the fifth component of human complement, by oxygen radicals. Some properties of the activation product, C5b-like C5. Vogt W, et al. **Mol Immunol** 1989 Dec;26(12):1133–42

Effects of hypoxia and complement activation on lung hemodynamics and fluid exchanges in unanesthetized goats. Xie ZL, et al. **Respiration** 1989;56(3–4):147–53

[In vivo study of the inhibitory effect of sodium selenite on mouse complement activation] Hou JC. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):250–3 (Eng. Abstr.) **(Chi)**

[The effect of zymosan activated blood plasma (products of the activation of complement system) on heart function] Shebeko VI, et al. **Dokl Akad Nauk SSSR** 1989; 309(3):753–6 **(Rus)**

GENETICS

Molecular mapping of the HLA-linked complement genes and the RCA linkage group. Campbell RD, et al. **Exp Clin Immunogenet** 1988;5(2–3):81–98 (113 ref.)

Evolutionary implications of a new bypass activation pathway of the complement system. Farries TC, et al. **Immunol Today** 1990 Mar;11(3):78–80 (30 ref.)

Exclusion of unassigned blood group system loci from the regulator of complement activation gene cluster on chromosome 1q32. Lewis M, et al. **Vox Sang** 1989; 57(3):210–2

IMMUNOLOGY

Patterns of complement activation in idiopathic membranoproliferative glomerulonephritis, types I, II, and III. Varade WS, et al. **Am J Kidney Dis** 1990 Sep; 16(3):196–206

Complement abnormalities in multiple myeloma. Zurlo JJ, et al. **Am J Med** 1989 Oct;87(4):411–20 (35 ref.)

Immunoglobulin G-dependent classical complement pathway activation in neutrophil-mediated cytotoxicity to infective larvae of Angiostrongylus cantonensis. Shaio MF, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):185–91

Factor B activation products in patients with systemic lupus erythematosus. A marker of severe disease activity. Kerr LD, et al. **Arthritis Rheum** 1989 Nov;32(11):1406–13

An affinity for complement C3 as a possible reason for the potency of naturally occurring antibodies in mediating tissue homeostasis. Lutz HU, et al. **Beitr Infusionther** 1989; 24:193–9 (23 ref.)

Complement activation before, during and after cardiopulmonary bypass. Bonser RS, et al. **Eur J Cardiothorac Surg** 1990;4(6):291–6

Activation of complement by circulating immune complexes isolated from leprosy patients. Tyagi P, et al. **Int J Lepr Other Mycobact Dis** 1990 Mar;58(1):31–8

Deposition of complement activation products on plastic-adsorbed immunoglobulins. A simple ELISA technique for the detection of defined complement deficiencies. Zwirner J, et al. **J Immunol Methods** 1989 Nov 13;124(1):121–9

Classical pathway of complement activation in normal and diseased human glomeruli. Zwirner J, et al. **Kidney Int** 1989 Dec;36(6):1069–77

Complement activation by individual and combinations of monoclonal antibodies to Actinomyces viscosus T14V fimbriae: a probe for epitope distribution on these polymeric proteins. Sandberg AL, et al. **Mol Immunol** 1990 Aug;27(8):787–94

The effect of antibody isotype on the activation of C3 and C4 by immune complexes formed in the presence of serum: correlation with the prevention of immune precipitation. Stewart WW, et al. **Mol Immunol** 1990 May;27(5):423–8

Activation of the classical complement pathway in brain tissue of Alzheimer patients. McGeer PL, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):341–6

Complement activation by infectious bursal disease virus and its relevance to virus growth in the lymphoid cells. Komine K, et al. **Nippon Juigaku Zasshi** 1989 Dec;51(6):1259–62

Role of humoral factors in host resistance to the Bacteroides fragilis group. Bjornson AB. **Rev Infect Dis** 1990 Jan–Feb; 12 Suppl 2:S161–8 (30 ref.)

Increased amounts of C4-containing immune complexes and inefficient activation of C3 and the terminal complement pathway in a patient with homozygous C2 deficiency and systemic lupus erythematosus. Garred P, et al. **Scand J Immunol** 1990 Jan;31(1):59–64

Classical and alternative pathway haemolytic activities of ovine complement: variations with age and sex. Oswald IP, et al. **Vet Immunol Immunopathol** 1990 Mar; 24(3):259–66

[Recurrent post-infectious immune complex glomerulonephritis with persistent activation of the alternative complement pathway] Arslan-Kirchner M, et al. **Monatsschr Kinderheilkd** 1990 Feb;138(2):81–4 (Eng. Abstr.) **(Ger)**

[Correlation of complement activation, cytokine liberation and beta 2 microglobulin in the use of various dialysis and hemofiltration membranes] Falkenhagen D, et al. **Z Urol Nephrol** 1989 Oct;82(10):541–50 (Eng. Abstr.) **(Ger)**

[Analysis serum complement activity in infants during their first year of life] Grigorek Kh, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):38–40 **(Rus)**

PHYSIOLOGY

Serum haemolytic classical and alternative pathways of complement in infancy: age-related changes. Ferriani VP, et al. **Acta Paediatr Scand** 1990 Mar;79(3):322–7

Plasma levels of main granulocyte components during hemodialysis. Comparison of new and reused dialyzers. Hörl WH, et al. **Am J Nephrol** 1990;10(1):53–7

Role of the terminal complement pathway in accelerated autologous anti-glomerular basement membrane nephritis. Groggel GC, et al. **Am J Pathol** 1990 Mar;136(3):533–40

Complement activation and reinfusion of wound drainage blood. Bengtson JP, et al. **Anesthesiology** 1990 Sep; 73(3):376–80

Periodic elevation of complement activation products in peritoneal dialysis effluent. Holmes CJ, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):587–9

Methylprednisolone inhibits granulocytopenia induced by infusion of complement-activated serum but not of complement-activated plasma in rabbits. Jansen NJ, et al. **Biomaterials** 1989 Nov;10(9):617–21

Consecutive enzyme cascades: complement activation at the cell surface triggers increased tissue factor activity. Carson SD, et al. **Blood** 1990 Jul 15;76(2):361–7

Complement activation in psoriasis. Rosenberg EW, et al. **Clin Exp Dermatol** 1990 Jan;15(1):16–20

The spleen is not a major synthetic site of alternative pathway components. Truedsson L, et al. **Complement Inflamm** 1990; 7(1):52–6

Participation of C3 and its ligands in complement activation. Volanakis JE. **Curr Top Microbiol Immunol** 1990;153:1–21 (124 ref.)

Immune complex modulation by plasma proteins. With special reference to the complement system and autoimmune diseases. Baatrup G. **Dan Med Bull** 1989 Oct; 36(5):443–63 (233 ref.)

Epithelial deposition of immunoglobulin G1 and activated complement (C3b and terminal complement complex) in ulcerative colitis. Halstensen TS, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1264–71

Lack of responsiveness to glucose of microencapsulated islets of Langerhans after three weeks' implantation in the rat—influence of the complement. Gin H, et al. **J Microencapsul** 1990 Jul–Sep;7(3):341–6

Evidence that production of autoantibody to the alternative pathway C3 convertase is a normal physiologic event. Spitzer RE, et al. **J Pediatr** 1990 May;116(5):S103–8

Suppression of complement activation in hemodialysis patients. Ohi H, et al. **Nephron** 1990;54(3):269–70

Complement activation involvement in decompression sickness of rabbits. Ward CA, et al. **Undersea Biomed Res** 1990 Jan;17(1):51–66

["Membrane attack complex" formation in hemodialysis treatment] Hauser AC, et al. **Wien Klin Wochenschr** 1990 Mar 2;102(5):140–2 (Eng. Abstr.) **(Ger)**

[Interaction of immune complexes and their leukocyte receptors: regulation by the complement system and by cyclophosphamide] Isturiz MA, et al. **Medicina (B Aires)** 1989;49(2):140–6 (Eng. Abstr.) **(Spa)**

COMPLEMENT FIXATION TESTS

Characterization of complement-fixing antibodies to peripheral nerve myelin in Guillain-Barré syndrome. Koski CL. **Ann Neurol** 1990;27 Suppl:S44–7 (15 ref.)

Complement fixation test for the diagnosis of Lyme disease. Artsob H, et al. **J Clin Microbiol** 1990 Mar;28(3):637–8

Evaluation of a modified complement fixation test and an indirect hemagglutination test for the serodiagnosis of melioidosis in pigs. Thomas AD, et al. **J Clin Microbiol** 1990 Aug;28(8):1874–5

Improvements in complement fixation testing [letter] Bell TA, et al. **Med Lab Sci** 1990 Apr;47(2):138

[Xenodiagnosis, hemoculture and the complement mediated lysis test, as criteria in selecting chronic chagasic patients for chemotherapy] Pereira VL, et al. **Rev Inst Med Trop Sao Paulo** 1989 Sep–Oct;31(5):301–7 (Eng. Abstr.) **(Por)**

METHODS

[Value of immunofixation for the typing of serum and urine monoclonal proteins] Boucaud-Maitre Y, et al. **Ann Biol Clin (Paris)** 1990;48(3):173–5 (Eng. Abstr.) **(Fre)**

[Immunoenzyme analysis and complement fixation test used for detection of antibodies to neuraminidase in patients with systemic lupus erythematosus] Rezalkina AV, et al. **Lab Delo** 1989;(10):62–4 (Eng. Abstr.) **(Rus)**

[The importance of the complement consumption reaction for the differential diagnosis of diseases of the hepatobiliary system] Chernous ES, et al. **Vrach Delo** 1990 May;(5):16–8 (Eng. Abstr.) **(Rus)**

VETERINARY

Comparison of the complement-fixation and agar gel immunodiffusion tests for diagnosis of subclinical bovine paratuberculosis. Sherman DM, et al. **Am J Vet Res** 1990 Mar;51(3):461–5

Comparison of three serological tests for Brucella ovis infection of rams using different antigenic extracts. Marín CM, et al. **Vet Rec** 1989 Nov 11;125(20):504–8

COMPLEMENT H50 see COMPLEMENT HEMOLYTIC ACTIVITY ASSAY

COMPLEMENT HEMOLYTIC ACTIVITY ASSAY

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of patients with premalignant and malignant lesions of the oral cavity. Rajendran R, et al. **Ann Dent** 1990 Summer;49(1):36–8, 51

A study of the complement system in psychiatric patients. Spivak B, et al. **Biol Psychiatry** 1989 Oct;26(6):640–2

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of diabetic patients with periodontitis. Anil S, et al. **J Periodontol** 1990 Jan;61(1):27–9

[Clinical significance of hemolytic complement activity via classical pathway] Takemura S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:634–6 **(Jpn)**

METHODS

Whole complement hemolytic activity (CH50) following infusion of stroma-free and polyhemoglobin solutions in rats. Ning J, et al. **Biomater Artif Cells Artif Organs** 1990; 18(2):203–17

Development and evaluation of a rapid, semi-automatic micro-method for CH50 estimation using a computer program. Blann AD, et al. **Immunol Invest** 1990 Apr; 19(2):109–18

A hemolytic assay for the measurement of equine complement. Reis KJ. **Vet Immunol Immunopathol** 1989 Nov 30;23(1–2):129–37

[The determination of the antibodies and the somatic O-antigen of Salmonella group B by using the complement-bound lysis of liposomes] Skopinskaia SN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr;(4):84–8 (Eng. Abstr.) **(Rus)**

COMPLEMENT INACTIVATORS

Further structural studies of anti-complementary acidic heteroglycans from the leaves of Panax ginseng C.A. Meyer. Gao QP, et al. **Carbohydr Res** 1990 Feb 25; 196:111–25

Structure and anticomplementary activity of an acidic polysaccharide from the leaves of Malva sylvestris var. mauritiana. Gonda R, et al. **Carbohydr Res** 1990 May 1; 198(2):323–9

Structure of an anti-complementary arabinogalactan from the root of Angelica acutiloba Kitagawa. Kiyohara H, et al. **Carbohydr Res** 1989 Oct 31;193:173–92

Relationship between structure and activity of an anti-complementary arabinogalactan from the roots of Angelica acutiloba Kitagawa. Kiyohara H, et al. **Carbohydr Res** 1989 Oct 31;193:193–200

Relationship between structure and activity of the "ramified" region in anti-complementary pectic polysaccharides from Angelica acutiloba Kitagawa. Kiyohara H, et al. **Carbohydr Res** 1989 Oct 31;193:201–14

Anticomplementary and hypoglycemic activity of okra and hibiscus mucilages. Tomoda M, et al. **Carbohydr Res** 1989 Jul 15;190(2):323–8

Plant mucilages. XLII. An anti-complementary mucilage from the leaves of Malva sylvestris var. mauritiana. Tomoda M, et al. **Chem Pharm Bull (Tokyo)** 1989 Nov; 37(11):3029–32

Characterization of anti-complement compounds from Azadirachta indica. van der Nat JM, et al. **J Ethnopharmacol** 1989 Nov;27(1–2):15–24

Strong interaction of lipopolysaccharides possessing the mannose homopolysaccharides with complement and its relation to adjuvant action. Yokochi T, et al. **J Immunol** 1990 Apr 15;144(8):3106–10

Pharmacological studies on 6-amidino-2-naphthyl[4-(4,5-dihydro-1H-imidazol-2-yl)amino] benzoate dimethane sulfonate (FUT-187). I: Inhibitory activities on various kinds of enzymes in vitro and anticomplement activity in vivo. Oda M, et al. **Jpn J Pharmacol** 1990 Jan;52(1):23–34

ANALYSIS

Two types of C3 nephritic factor: properdin-dependent C3NeF and properdin-independent C3NeF. Tanuma Y, et al. **Clin Immunol Immunopathol** 1990 Aug;56(2):226–38

Detection of C3bBb-stabilizing activity (C3 nephritic factor) in the serum from patients with membranoproliferative glomerulonephritis. Ohi H, et al. **J Immunol Methods** 1990 Jul 20;131(1):71–6

Localization of decay accelerating factor in normal and diseased kidneys. Cosio FG, et al. **Kidney Int** 1989 Jul; 36(1):100–7

[Major complement inhibiting factors from the venom of the Central Asian cobra Naja naja oxiana] Kozlov LV, et al. **Biokhimiia** 1989 Nov;54(11):1919–26 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Synthesis of aberrant decay-accelerating factor proteins by affected paroxysmal nocturnal hemoglobinuria leukocytes. Carothers DJ, et al. **J Clin Invest** 1990 Jan;85(1):47–54

[Production of C3 nephritic factor by cultured lymphocytes derived from glomerulonephritic patients] Yamada A, et al. **Nippon Jinzo Gakkai Shi** 1990 Apr;32(4):373–8 (Eng. Abstr.) **(Jpn)**

DEFICIENCY

A case of paroxysmal nocturnal hemoglobinuria without deficiency of decay-accelerating factor on erythrocytes [letter] Oho H, et al. **Blood** 1990 Apr 15;75(8):1746–7

Deficiency of glycosyl-phosphatidylinositol anchored proteins on paroxysmal nocturnal haemoglobinuria (PNH) neutrophils and monocytes: heterogeneous deficiency of decay-accelerating factor (DAF) and CD16 on PNH neutrophils. Kawakami Z, et al. **Br J Haematol** 1990 Apr; 74(4):508–13

Studies on the sensitivity to complement-mediated lysis of erythrocytes (Inab phenotype) with a deficiency of DAF (decay accelerating factor). Merry AH, et al. **Br J Haematol** 1989 Oct;73(2):248–53

GENETICS

Familial incidence of C3 nephritic factor, partial lipodystrophy and membranoproliferative glomerulonephritis. Power DA, et al. **Q J Med** 1990 Apr; 75(276):387–98

IMMUNOLOGY

Chronic urticaria and moderate leukocytoclastic vasculitis associated with C3 nephritic factor activity [letter] Borradori L, et al. **Arch Dermatol** 1989 Nov; 125(11):1589–90

Production of IgG and IgM autoantibody to the alternative pathway C3 convertase in normal individuals and patients with membranoproliferative glomerulonephritis. Spitzer RE, et al. **Clin Immunol Immunopathol** 1990 Oct;57(1):10–8

ISOLATION & PURIFICATION

Murine membrane inhibitor of complement which accelerates decay of human C3 convertase. Kameyoshi Y, et al. **Immunology** 1989 Dec;68(4):439–44

An anti-complementary polysaccharide with immunological adjuvant activity from the leaf parenchyma gel of Aloe vera. t'Hart LA, et al. **Planta Med** 1989 Dec;55(6):509–12

Anti-complementary and hypoglycemic activities of the glycans from the seeds of Malva verticillata. Tomoda M, et al. **Planta Med** 1990 Apr;56(2):168–70

[Complement-inhibiting acidic factors from the venom of Central Asian cobra Naja naja oxiana] Shobonov BB, et al. **Biokhimiia** 1989 Dec;54(12):2054–60 (Eng. Abstr.) **(Rus)**

METABOLISM

Preferential expression of the complement regulatory protein decay accelerating factor at the fetomaternal interface during human pregnancy. Holmes CH, et al. **J Immunol** 1990 Apr 15;144(8):3099–105

Proteolytic elimination of decay-accelerating factor (DAF): lytic abnormality coincides with removal of DAF in papain-treated human erythrocytes. Seya T, et al. **Mol Immunol** 1990 Jan;27(1):69–78

PHARMACOLOGY

Anti-inflammatory drugs and the complement system. A condensation product of metacresolsulfonic acid and formaldehyde prevents instantly the complement activation in vitro. Gancevici GG, et al. **Arch Roum Pathol Exp Microbiol** 1989 Apr-Jun; 48(2):157–62

Effect of decay-accelerating factor on the assembly of the classical and alternative pathway C3 convertases in the presence of C4 or C3 nephritic factor. Ito S, et al. **Immunology** 1989 Dec;68(4):449–52

The effect of FUT-175 (Nafamstat Mesilate) on C3a, C4a and C5a generation in vitro and inflammatory reactions in vivo. Isskutz AC, et al. **Int J Immunopharmacol** 1990; 12(1):1–9

Mechanism of polymorphonuclear leukocytes accumulation examined using inhibitors of complement and arachidonic acid cascade in rats treated with OK-432. Kato H, et al. **Nat Immun Cell Growth Regul** 1989;8(5):290–300

Soluble human complement receptor type 1: in vivo inhibitor of complement suppressing post-ischemic myocardial inflammation and necrosis. Weisman HF, et al. **Science** 1990 Jul 13;249(4965):146–51

PHYSIOLOGY

H19, a surface membrane molecule involved in T-cell activation, inhibits channel formation by human complement. Whitlow MB, et al. **Cell Immunol** 1990 Mar; 126(1):176–84

Host-specific evasion of the alternative complement pathway by schistosomes correlates with the presence of a phospholipase C-sensitive surface molecule resembling human decay accelerating factor. Pearce EJ, et al. **J Immunol** 1990 Apr 1;144(7):2751–6

THERAPEUTIC USE

Nafamstat mesilate attenuates pulmonary hypertension in heparin-protamine reactions. Kreil E, et al. **J Appl Physiol** 1989 Oct;67(4):1463–71

COMPLEMENT INHIBITORS see **COMPLEMENT INACTIVATORS**

COMPLEMENT MEMBRANE ATTACK COMPLEX

ANALYSIS

Anaphylatoxin and terminal complement complexes in red cell salvage. Bengtsson A, et al. **Acta Anaesthesiol Scand** 1990 Jul;34(5):339–41

Membrane attack complex of complement in Henoch-Schönlein purpura skin and nephritis. Kawana S, et al. **Arch Dermatol Res** 1990;282(3):183–7

Quantitative measurement of SC5b-9 and C5b-9(m) in infarcted areas of human myocardium. Hugo F, et al. **Clin Exp Immunol** 1990 Jul;81(1):132–6

Immunohistochemical detection of terminal complement complex and S protein in normal and pre-eclamptic placentae. Tedesco F, et al. **Clin Exp Immunol** 1990 May; 80(2):236–40

[Terminal complement complex (TTC) levels in plasma and urine from glomerular diseases: enzyme-linked immunosorbent assay (ELISA) using monoclonal antibody against neoantigens of TCC] Kusunoki Y. **Hokkaido Igaku Zasshi** 1990 Jan;65(1):74–85 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Inhibition of the formation of the complement membrane-attack complex by a monoclonal antibody to the complement component C8 alpha subunit. Abraha A, et al. **Biochem J** 1989 Dec 15;264(3):933–6

Isolation and characterization of a membrane-attack-complex-inhibiting protein present in human serum and other biological fluids. Watts MJ, et al. **Biochem J** 1990 Jan 15;265(2):471–7

Amino-terminal amino acid sequence and chemical and functional properties of a membrane attack complex-inhibitory factor from human erythrocyte membranes. Sugita Y, et al. **J Biochem (Tokyo)** 1989 Oct; 106(4):589–92

Regulatory control of complement on blood platelets. Modulation of platelet procoagulant responses by a membrane inhibitor of the C5b-9 complex. Sims PJ, et al. **J Biol Chem** 1989 Nov 15;264(32):19228–35

BIOSYNTHESIS

Tissue distribution of HRF20, a novel factor preventing the membrane attack of homologous complement, and its predominant expression on endothelial cells in vivo. Nose M, et al. **Immunology** 1990 Jun;70(2):145–9

Molecular cloning and characterization of MACIF, an inhibitor of membrane channel formation of complement. Sugita Y, et al. **J Biochem (Tokyo)** 1989 Oct;106(4):555–7

A serum protein SP40,40 modulates the formation of membrane attack complex of complement on erythrocytes. Choi NH, et al. **Mol Immunol** 1989 Sep;26(9):835–40

[Assembly of the membrane attack complex of complement in pemphigus vulgaris skin] Kawana S, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Jun;99(7):833–6 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Involvement of membrane attack complex of complement in UV-B-induced acantholysis in pemphigus. Kawana S, et al. **Arch Dermatol** 1990 May;126(5):623–6

Killing of gram-negative bacteria by complement. Fractionation of cell membranes after complement C5b-9 deposition on to the surface of Salmonella minnesota Re595. Tomlinson S, et al. **Biochem J** 1989 Oct 15; 263(2):505–11

Restriction factors of homologous complement: a new candidate? Ojcius DM, et al. **Immunol Today** 1990 Feb; 11(2):47–9 (24 ref.)

Stimulation of human rheumatoid synovial cells by non-lethal complement membrane attack. Daniels RH, et al. **Immunology** 1990 Feb;69(2):237–42

The membrane attack pathway of complement. Esser AF. **Year Immunol** 1989–90;6:229–44 (82 ref.)

METABOLISM

Immunohistochemical localisation of terminal complement component C9 in experimental allergic encephalomyelitis. Linington C, et al. **Acta Neuropathol (Berl)** 1989;79(1):78–85

Microvascular changes in early and advanced dermatomyositis: a quantitative study. Emslie-Smith AM, et al. **Ann Neurol** 1990 Apr;27(4):343–56

Membrane sorting during vesicle shedding from neutrophils during sublytic complement attack. Stein JM, et al. **Biochem Soc Trans** 1989 Dec;17(6):1082–3

Transfer of preformed terminal C5b-9 complement complexes into the outer membrane of viable gram-negative bacteria: effect on viability and integrity. Tomlinson S, et al. **Biochemistry** 1990 Feb 20;29(7):1852–60

Complement proteins C5b-9 induce transbilayer migration of membrane phospholipids. Van der Meer BW, et al. **Biophys J** 1989 Nov;56(5):935–46

Erythrocyte membrane inhibitor of reactive lysis: effects of phosphatidylinositol-specific phospholipase C on the isolated and cell-associated protein. Holguin MH, et al. **Blood** 1990 Jan 1;75(1):284–9

S protein binds to serum-treated agarose beads independently of complement activation and the formation of the terminal complement complex on the beads. Hetland G, et al. **Clin Exp Immunol** 1990 Mar;79(3):459–62

Epithelial deposition of immunoglobulin G1 and activated complement (C3b and terminal complement complex) in ulcerative colitis. Halstensen TS, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1264–71

Regulation of the membrane attack complex of complement. Evidence that C8 gamma is not the target of homologous restriction factors. Davé SJ, et al. **J Immunol** 1990 Apr 15;144(8):3087–90

Evaluation of antisperm complement-dependent immune mediators in human ovarian follicular fluid. D'Cruz OJ, et al. **J Immunol** 1990 May 15;144(10):3841–8

C3, C4, and the terminal complement complex differ from C1q by binding predominantly to the antigenic part of solid phase immune complexes. Garred P, et al. **J Immunol** 1990 Jan 1;144(1):198–203

The complement-inhibitory activity of CD59 resides in its capacity to block incorporation of C9 into membrane C5b-9. Rollins SA, et al. **J Immunol** 1990 May 1; 144(9):3478–83

Early ultrastructural alterations in adult dermatomyositis. Capillary abnormalities precede other structural changes in muscle. De Visser M, et al. **J Neurol Sci** 1989 Dec; 94(1-3):181–92

Localization of terminal complement components S-protein and SP-40,40 in renal biopsies. Murphy BF, et al. **Pathology** 1989 Oct;21(4):275–8

[Evaluation of the bactericidal effect of the membrane attack complex of serum complement] Ponard D, et al. **Pathol Biol (Paris)** 1990 Feb;38(2):89–92 (Eng. Abstr.) **(Fre)**

["Membrane attack complex" formation in hemodialysis treatment] Hauser AC, et al. **Wien Klin Wochenschr** 1990 Mar 2;102(5):140–2 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

C5b-8 and C5b-9 modulate the collagen release of human glomerular epithelial cells. Torbohm I, et al. **Kidney Int** 1990 Apr;37(4):1098–104

PHYSIOLOGY

Complement membrane attack on nucleated cells: resistance, recovery and non-lethal effects. Morgan BP. **Biochem J** 1989 Nov 15;264(1):1–14 (163 ref.)

Role of calcium and calpain in complement-induced vesiculation of the platelet plasma membrane and in the exposure of the platelet factor Va receptor. Wiedmer T, et al. **Biochemistry** 1990 Jan 23;29(3):623–32

Relative contributions of chemo-attractant and terminal components of complement to anti-glomerular basement membrane (GBM) glomerulonephritis. Tipping PG, et al. **Clin Exp Immunol** 1989 Dec;78(3):444–8

Complement proteins C5b-9 induce vesiculation of the endothelial plasma membrane and expose catalytic surface for assembly of the prothrombinase enzyme complex. Hamilton KK, et al. **J Biol Chem** 1990 Mar 5; 265(7):3809–14

Multiple signal messengers generated by terminal complement complexes and their role in terminal complement complex elimination. Carney DF, et al. **J Immunol** 1990 Jul 15;145(2):623–9

ULTRASTRUCTURE

Comparison of channels formed by poly C9, C5b-8 and the membrane attack complex of complement. Zalman LS, et al. **Mol Immunol** 1990 Jun;27(6):533–7

URINE

Urinary excretion of C5b-9 reflects disease activity in passive Heymann nephritis. Pruchno CJ, et al. **Kidney Int** 1989 Jul;36(1):65–71

COMPLEMENT PATHWAY, ALTERNATIVE see under **COMPLEMENT ACTIVATION**

COMPLEMENT PATHWAY, CLASSICAL see under **COMPLEMENT ACTIVATION**

COMPLEMENT PROTEINS see COMPLEMENT

COMPLEMENT RECEPTORS see RECEPTORS, COMPLEMENT

COMPLEMENTARITY-DETERMINING REGION see IMMUNOGLOBULIN VARIABLE REGION

COMPLEMENTARY DNA see DNA

COMPLEX III see UBIQUINOL-CYTOCHROME C REDUCTASE

COMPLEXONS see CHELATING AGENTS

COMPLIANCE see under ELASTICITY

COMPLIANT BEHAVIOR see COOPERATIVE BEHAVIOR

COMPOSITE RESINS

A 2-year follow-up study of titanium crowns. Bergman B, et al. **Acta Odontol Scand** 1990 Apr;48(2):113-7

Three-year study of cervical erosions restored with resin and dentin-bonding agent. Hansen EK. **Acta Odontol Scand** 1989 Oct;47(5):301-6

An evaluation of the radiopacity of composite restorative materials used in Class I and Class II cavities. van Dijken JW, et al. **Acta Odontol Scand** 1989 Dec;47(6):401-7

Proximo-occlusal composite restorations in primary molars: marginal adaptation, bacterial penetration, and pulpal reactions. Varpio M, et al. **Acta Odontol Scand** 1990 Jun; 48(3):161-7

Shear bond strength of four orthodontic bonding systems. Coreil MN, et al. **Am J Orthod Dentofacial Orthop** 1990 Feb;97(2):126-9

The shear bond strengths of stainless steel orthodontic brackets bonded to teeth with orthodontic composite resin and various fissure sealants. Joseph VP, et al. **Am J Orthod Dentofacial Orthop** 1990 Jul;98(1):66-71

Effects of phosphoric acid concentration and etch duration on the shear bond strength of an orthodontic bonding resin to enamel. An in vitro study. Legler LR, et al. **Am J Orthod Dentofacial Orthop** 1989 Dec;96(6):485-92

The development of a composite restorative system. Henderson LJ, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):569-72

Time required for placement of composite versus amalgam restorations. Dilley DC, et al. **ASDC J Dent Child** 1990 May-Jun;57(3):177-83

Posterior composite resin: use for anterior restorations. Donly KJ. **ASDC J Dent Child** 1990 Jul-Aug;57(4):260-2

A clinical review of preventive resin restorations. Walker JD, et al. **ASDC J Dent Child** 1990 Jul-Aug;57(4):257-9 (10 ref.)

Some factors influencing the depth of cure of visible light-activated composite resins. Atmadja G, et al. **Aust Dent J** 1990 Jun;35(3):213-8

The influence of mixing ratio on the working time, strength and wear of composites. de Gee AJ, et al. **Aust Dent J** 1989 Oct;34(5):466-9

Clinical evaluation of three dentine bonding agents [see comments] Tyas MJ. **Aust Dent J** 1989 Dec;34(6):559-62 Comment in: Aust Dent J 1990 Apr;35(2):185.

Correlation between fracture properties and clinical performance of composite resins in Class IV cavities. Tyas MJ. **Aust Dent J** 1990 Feb;35(1):46-9

Water sorption and mechanical properties of dental composites. Bastioli C, et al. **Biomaterials** 1990 Apr; 11(3):219-23

Influence of chemical structure on the fracture behaviour of dimethacrylate composite resins. Cook WD, et al. **Biomaterials** 1990 May;11(4):272-6

Effect of temperature and ageing on the mechanical properties of dental polymeric composite materials. Kandil SH, et al. **Biomaterials** 1989 Oct;10(8):540-4

Fee scales [letter] Jones CS. **Br Dent J** 1989 Oct 21;167(8):266

Controversies in posterior composite resin restorations. Wilson EG, et al. **Dent Clin North Am** 1990 Jan;34(1):27-44 (40 ref.)

Clinical biocompatibility of an experimental dentine-enamel adhesive for composites. Bowen RL, et al. **Int Dent J** 1989 Dec;39(4):247-52

Bonding to dentine with a simplified Gluma system. de Araujo PA, et al. **Int Dent J** 1989 Dec;39(4):253-7

Aesthetic limits of light-cured composite resins in anterior teeth. Lambrechts P, et al. **Int Dent J** 1990 Jun;40(3):149-58

Effect of surface penetrating sealant on wear rate of posterior composite resins. Dickinson GL, et al. **J Am Dent Assoc** 1990 Aug;121(2):251-5

An evaluation of different composite resin systems finished with various abrasives. Herrgott AM, et al. **J Am Dent Assoc** 1989 Dec;119(6):729-32

Restoring a tooth with massive internal resorption to form and function: report of case. Herrin HK, et al. **J Am Dent Assoc** 1990 Aug;121(2):271-2, 274

Composite resin short-post technique for primary anterior teeth. Judd PL, et al. **J Am Dent Assoc** 1990 May; 120(5):553-5

Optimal etching time of glass ionomer cement for maximum bond of composite resin. Mangum FI, et al. **J Am Dent Assoc** 1990 May;120(5):535-8

Composite resin esthetic dentistry survey in New England. Reinhardt JW, et al. **J Am Dent Assoc** 1990 May; 120(5):541-4

Glass ionomer-composite sandwich technique. Suzuki M, et al. **J Am Dent Assoc** 1990 Jan;120(1):55-7

The clinical evaluation of heat-treated composite resin inlays. Wendt SL Jr, et al. **J Am Dent Assoc** 1990 Feb; 120(2):177-81

Mechanical properties of BIS-GMA resin short glass fiber composites. Krause WR, et al. **J Biomed Mater Res** 1989 Oct;23(10):1195-211

The effect of placement technique upon the compressive strength and porosity of a composite resin. Chadwick RG, et al. **J Dent** 1989 Oct;17(5):230-3

Resin bonded bridgework: a review. Saunders WP. **J Dent** 1989 Dec;17(6):255-65 (170 ref.)

Effect of fatigue upon the interfacial bond strength of repaired composite resins. Saunders WP. **J Dent** 1990 Jun; 18(3):158-62

The nature and effects of composite finishing pastes. Whitehead SA, et al. **J Dent** 1989 Oct;17(5):234-40

Adherence of oral streptococci to composite resin restorative materials. Yamamoto K, et al. **J Dent** 1989 Oct;17(5):225-9

In vitro evaluation of a fluoride-releasing orthodontic resin. Chan DC, et al. **J Dent Res** 1990 Sep;69(9):1576-9

The relationship between composition and properties of posterior resin composites. Chung KH. **J Dent Res** 1990 Mar;69(3):852-6

Fracture-mechanics parameters of the composite-enamel bond. de Groot R, et al. **J Dent Res** 1990 Jan;69(1):31-5

An in vitro investigation of the effects of glass inserts on the effective composite resin polymerization shrinkage. Donly KJ, et al. **J Dent Res** 1989 Aug;68(8):1234-7

Relaxation of polymerization contraction shear stress by hygroscopic expansion. Feilzer AJ, et al. **J Dent Res** 1990 Jan;69(1):36-9

Complete marginal seal of Class V resin composite restorations effected by increased flexibility. Kemp-Scholte CM, et al. **J Dent Res** 1990 Jun;69(6):1240-3

Prevalence and need for replacement of amalgam and composite restorations in Dutch adults. Kroeze HJ, et al. **J Dent Res** 1990 Jun;69(6):1270-4

Output from visible-light activation units and depth of cure of light-activated composites. McCabe JF, et al. **J Dent Res** 1989 Nov;68(11):1534-9

Effect of etching glass-ionomer cements on bond strength to composite resin. Sheth JJ, et al. **J Dent Res** 1989 Jun; 68(6):1082-7

Cyclopolymerizable monomers for use in dental resin composites. Stansbury JW. **J Dent Res** 1990 Mar; 69(3):844-8

Mutans streptococci in plaque from margins of amalgam, composite, and glass-ionomer restorations. Svanberg M, et al. **J Dent Res** 1990 Mar;69(3):861-4

A confocal microscopic study of some factors affecting the adaptation of a light-cured glass ionomer to tooth tissue. Watson TF. **J Dent Res** 1990 Aug;69(8):1531-8

Clinical performance of resin-bonded bridges: a 5-year prospective study. I. Design of the study and influence of experimental variables. Creugers NH, et al. **J Oral Rehabil** 1989 Sep;16(5):427-36

Sensitivity to ambient light of visible light-cured composites. Dionysopoulos P, et al. **J Oral Rehabil** 1990 Jan;17(1):9-13

Wear of prosthodontic materials—an in vivo study. Ekfeldt A, et al. **J Oral Rehabil** 1990 Mar;17(2):117-29

Wear of composite resin in vitro: a testing machine with rubber plate. Preliminary results. Hengchang X, et al. **J Oral Rehabil** 1990 Jan;17(1):107-15

The effect of posterior composite restorations on the resistance of cavity walls to vertically applied occlusal loads. Liberman R, et al. **J Oral Rehabil** 1990 Jan; 17(1):99-105

Etched glass ionomer liners: surface properties and interfacial profile with composite resins. Papagiannoulis L, et al. **J Oral Rehabil** 1990 Jan;17(1):25-36

Clinical evaluation of two posterior composite resins: two-year results. Stangel I, et al. **J Oral Rehabil** 1990 May; 17(3):257-68

Radiographic inhomogeneity of posterior composites. Watts DC, et al. **J Oral Rehabil** 1990 Mar;17(2):151-5

Finishing composite restorative materials. Wilson F, et al. **J Oral Rehabil** 1990 Jan;17(1):79-87

A study of surfaces developed on composite resins in vivo during 4.5 years; observations by SEM. Xu HC, et al. **J Oral Rehabil** 1989 Jul;16(4):407-16

Direct composite resin inlay. Biederman JD. **J Prosthet Dent** 1989 Sep;62(3):249-53

Influence of ceramic thickness on the polymerization of light-cured resin cement. Blackman R, et al. **J Prosthet Dent** 1990 Mar;63(3):295-300

Effectiveness of a method used in bonding resins to metal. Caeg C, et al. **J Prosthet Dent** 1990 Jul;64(1):37-41

A combined amalgam and composite resin restoration. Cardash HS, et al. **J Prosthet Dent** 1990 May;63(5):502-5

Reducing marginal leakage of posterior composite resin restorations: a review of clinical techniques. Cheung GS. **J Prosthet Dent** 1990 Mar;63(3):286-8 (41 ref.)

A light-cured interim obturator prosthesis. A clinical report. DaBreo EL. **J Prosthet Dent** 1990 Apr;63(4):371-3

Bond durability between dentinal bonding agents and tooth structure. Davis EL, et al. **J Prosthet Dent** 1989 Sep; 62(3):253-6

A lining system for composite resin fillings. Derand T. **J Prosthet Dent** 1990 Feb;63(2):134-7

An evaluation of the bond strengths of four organosilane materials in response to thermal stress. Diaz-Arnold AM, et al. **J Prosthet Dent** 1989 Sep;62(3):257-60

Thermal removal of composite resin: effect on rebonding etched metal. Haywood VB, et al. **J Prosthet Dent** 1990 Mar;63(3):289-91

Correlation between air-drying duration and bond strength of composite resins to teeth. Ichiki K, et al. **J Prosthet Dent** 1990 May;63(5):525-9

Marginal accuracy of provisional restorative materials. Koumjian JH, et al. **J Prosthet Dent** 1990 Jun;63(6):639-42

Marginal leakage in class V composite resin restorations with glass ionomer liners in vitro. Mathis RS, et al. **J Prosthet Dent** 1990 May;63(5):522-5

The effects of rinse volumes and air and water pressures on enamel-composite resin bond strength. Mixson JM, et al. **J Prosthet Dent** 1989 Nov;62(5):522-6

Comparative study of luting agents with composite resin cores. Moody CR, et al. **J Prosthet Dent** 1989 Nov; 62(5):527-9

A medicated polycarboxylate cement to prevent complications in composite resin therapy. Okamoto Y, et al. **J Prosthet Dent** 1990 Jan;63(1):37-40

Microleakage of extended and nonextended Class I composite resin and sealant restorations. Penning C, et al. **J Prosthet Dent** 1990 Aug;64(2):131-4

Clinical evaluation of two posterior composite resins retained with bonding agents. Shintani H, et al. **J Prosthet Dent** 1989 Dec;62(6):627-32

Wear of materials used in dentistry: a review of the literature. Sulong MZ, et al. **J Prosthet Dent** 1990 Mar;63(3):342-9 (90 ref.)

Quantitative evaluation of proximal contacts in posterior composite restorations. Part I. Methodology. Wang JC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Jul; 5(7):404-8

Sealing ability of intermediate restorations and cavity design used in endodontics. Barkhordar RA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jan;69(1):99-101

Short- and long-term fluoride release from glass ionomers and other fluoride-containing filling materials in vitro. Forsten L. **Scand J Dent Res** 1990 Apr;98(2):179-85

Enzymatic degradation of BISOMA/TEGDMA-polymers causing decreased microhardness and greater wear in vitro. Freund M, et al. **Scand J Dent Res** 1990 Aug;98(4):351-5

Strength of bond with Comspan Opaque to three silicoated alloys and titanium. Hansson O. **Scand J Dent Res** 1990 Jun;98(3):248-56

Glass ionomer and resin-based fissure sealants: a clinical study. Mejàre I, et al. **Scand J Dent Res** 1990 Aug; 98(4):345-50

Enzymatic hydrolysis of (di)methacrylates and their polymers. Munksgaard EC, et al. **Scand J Dent Res** 1990 Jun;98(3):261-7

Microleakage in fissures sealed with resin or glass ionomer cement. Övrebö RC, et al. **Scand J Dent Res** 1990 Feb; 98(1):66-9

Color stability of three composite resins used in the inlay/onlay technique. Peutzfeldt A, et al. **Scand J Dent Res** 1990 Jun;98(3):257-60

Filler leachability during water storage of six composite materials. Söderholm KJ. **Scand J Dent Res** 1990 Feb; 98(1):82-8

A 3-year evaluation of Gluma and Gluma/Scotchbond for restoration of cervical erosions. van Dijken JW. **Scand J Dent Res** 1990 Aug;98(4):341-4

Class I and II composite resin restorations: 4-year clinical follow up. Lundin SA, et al. **Swed Dent J** 1989;13(6):217-27

[Evaluation of the effect of glass ionomer liner on microleakage of light-curing composite resin restoration] Huang SK, et al. **Chang Keng I Hsueh** 1989 Sep 20; 12(3):156-60 (Eng. Abstr.) **(Chi)**

[Effect of the resin system on dentin bond strength] Wang T. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan; 25(1):15-7, 60 (Eng. Abstr.) **(Chi)**

[Effects of various photoreducers on the properties of visible-light-cured resin] Wang T. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Jul; 24(4):230-2 **(Chi)**

[A study and clinical appliance of super-strength composite resins] Yu ZS. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep;24(5):276-9 **(Chi)**

[Bond strength of etched enamel to direct composite resins, to indirect composite resins and to etched and silanized porcelain] Prévost AP, et al. **J Can Dent Assoc** 1990 Jul; 56(7):631-5 (Eng. Abstr.) **(Fre)**

[Curing ability of polymerization lights for composite materials] Hotz PR, et al. **Schweiz Monatsschr Zahnmed** 1989;99(10):1122-6 (Eng. Abstr.) **(Ger)**

[Water absorption and resistance to wear of 2 newly invented composite resins] Beltrame A, et al. **Minerva Stomatol** 1989 Jul;38(7):763-7 (Eng. Abstr.) **(Ita)**

[Visco-elastic properties of various composites for the front teeth] Pettini PL, et al. **Minerva Stomatol** 1989 Jul; 38(7):753-6 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

[Histological study of the pulp-damaging effect of composite filling materials in dog teeth] Urbizo Vélez J, et al.

Fogorv Sz 1988 Oct;81(10):301–5 (18 ref.) (Eng. Abstr.) (Hun)

CHEMICAL SYNTHESIS

Stiffness and strength tailoring of a hip prosthesis made of advanced composite materials. Chang FK, et al. J Biomed Mater Res 1990 Jul;24(7):873–99

PHARMACOKINETICS

Pulp response to a composite resin inserted in deep cavities with and without a surface seal. Fuks AB, et al. J Prosthet Dent 1990 Feb;63(2):129–34

PHARMACOLOGY

[A comparison of the adhesive strength of unaged and aged metal–resin bonding systems. An in vitro study] Mathey Y, et al. Schweiz Monatsschr Zahnmed 1990;100(4):401–7 (Eng. Abstr.) (Ger)

[The polymerization shrinkage of composites] Matschinske U, et al. Zahn Mund Kieferheilkd 1989;77(8):783–9 (Eng. Abstr.) (Ger)

[Clinical and ultramicroscopic research to evaluate a light–hardened composite] Ritter G, et al. Zahn Mund Kieferheilkd 1990;78(1):29–30 (Ger)

[Possibilities of testing the biological acceptability of composite filling materials, with special reference to the microscopic test for pulp vitality. Review of the literature] Nyárasdy I. Fogorv Sz 1990 Aug;83(8):247–52 (Eng. Abstr.) (Hun)

STANDARDS

Cyclic fatigue of composite restorative materials. Drummond JL. J Oral Rehabil 1989 Sep;16(5):509–20

Quality evaluation of anterior restorations in private practice. Allander L, et al. Swed Dent J 1989;13(4):141–50

THERAPEUTIC USE

[The border seal in restorations of class–V lesions with glass ionomer cement and composite (the sandwich filling)] Hänggi D, et al. Schweiz Monatsschr Zahnmed 1990; 100(1):29–37 (Eng. Abstr.) (Ger)

[Fissure sealing. A report on our experience of fissure sealing using Helioseal with a retention time of up to 96 months] Trummler A, et al. Schweiz Monatsschr Zahnmed 1990; 100(1):60–5 (Ger, Fre)

TOXICITY

Glass ionomer and composite resin cements: effects on oral cells. Caughman WF, et al. J Prosthet Dent 1990 May; 63(5):513–21

[Exposit in a biological test] Hoyer I, et al. Zahn Mund Kieferheilkd 1989;77(8):775–82 (Eng. Abstr.) (Ger)

[Histological studies of the pulpal reaction in an animal experiment following the application of a light–hardening resin] Stein M, et al. Zahn Mund Kieferheilkd 1990; 78(2):139–40 (Ger)

COMPOUND Q see TRICHOSANTHIN

COMPOUND 48–80

ADMINISTRATION & DOSAGE

Determination of the interval during which one application of compound 48/80 to the rat conjunctiva influences the response to a second application. Allansmith MR, et al. Ophthalmic Res 1990;22(3):137–43

PHARMACOKINETICS

The effect of indomethacin on the kinetics of histamine, 48/80 and antigen wealing. Humphreys F, et al. Br J Clin Pharmacol 1990 Feb;29(2):195–9

PHARMACOLOGY

Compound 48/80–induced secretion of histamine from rat peritoneal mast cells depends on a tryptase controlled step also leading to chymase activity. Vassimon CS, et al. Agents Actions 1990 Apr;30(1–2):150–2

A mast cell secretagogue, compound 48/80, prevents the accumulation of hyaluronan in lung tissue injured by ionizing irradiation. Nilsson K, et al. Am J Respir Cell Mol Biol 1990 Feb;2(2):199–205

Cutaneous responses to histamine, compound 48/80 and codeine in patients with hyperthyroidism. Goldberg A, et al. Ann Allergy 1990 Feb;64(2 Pt 1):179–81

Effects of compound 48/80 on the Ca2+ release by reversal of the Ca2+ pump and by the Ca2+ channel of sarcoplasmic reticulum membranes. Vale MG. Arch Biochem Biophys 1990 Jun;279(2):275–80

Ruthenium red and compound 48/80 inhibit the smooth–muscle plasma–membrane Ca2+ pump via interaction with associated polyphosphoinositides. Missiaen L, et al. Biochim Biophys Acta 1990 Apr 30;1023(3):449–54

Anti–inflammatory activity of bee venom peptide 401 (mast cell degranulating peptide) and compound 48/80 results from mast cell degranulation in vivo. Banks BE, et al. Br J Pharmacol 1990 Feb;99(2):350–4

Central lesion abolishes the beneficial effect of hypertonic saline on circulatory shock produced by compound 48/80 in rats. Giraldelo CM, et al. Braz J Med Biol Res 1989; 22(8):1029–32

Hyperthyroid–like metabolic changes induced by chronic administration of compound BW 48/80. Nunes MT, et al. Braz J Med Biol Res 1989;22(3):417–20

Histological evaluation of mast cells in rat gastric mucosal lesions induced by compound 48/80. Arisawa T, et al. Digestion 1989;43(1–2):87–97

Direct activation of GTP–binding regulatory proteins (G–proteins) by substance P and compound 48/80. Mousli M, et al. FEBS Lett 1990 Jan 1;259(2):260–2

Roles of peripheral and central angiotensin–converting enzyme (ACE) in hypovolemic thirst induced by compound 48/80 in rats. Izumi H, et al. Jpn J Pharmacol 1990 Jul;53(3):367–74

Comparison of histamine release induced by synthetic polycations with that by compound 48/80 from rat mast cells. Yoshino Y, et al. Jpn J Pharmacol 1990 Mar; 52(3):387–95

Response of rat conjunctival mast cells to multiple versus single applications of compound 48/80. Allansmith MR, et al. Ophthalmic Res 1989;21(5):392–400

Role of lipid peroxidation and oxygen radicals in compound 48/80–induced gastric mucosal injury in rats. Takemura T, et al. Scand J Gastroenterol Suppl 1989;162:51–4

TOXICITY

Ocular anaphylaxis induced in the rat by topical application of compound 48/80. Dose response and time course study. Allansmith MR, et al. Acta Ophthalmol Suppl (Copenh) 1989;192:145–53

Time course of human conjunctival mast cell degranulation in response to compound 48/80. Udell IJ, et al. Acta Ophthalmol Suppl (Copenh) 1989;192:154–61

Effect of H1 and H2 receptor blockers on mobilization of myocardial carnosine to histamine during compound 48/80–induced shock in young rats. Fitzpatrick JC, et al. Circ Shock 1990 Feb;30(2):145–53

COMPREHENSIVE DENTAL CARE

Unity in dentistry [letter; comment] Atkinson HF. Aust Dent J 1989 Oct;34(5):487 Comment on: Aust Dent J 1989 Feb;34(1):69–74.

Total child patient care—aspects of paediatric dentistry and orthodontics. Wei SH, et al. Int Dent J 1989 Sep; 39(3):163–70 (14 ref.)

COMPREHENSIVE HEALTH CARE

Models of clinical care. Pinching AJ. AIDS 1989;3 Suppl 1:S209–13 (4 ref.)

Comprehensive primary health care. A letter to a medical student. Ershler I. Arch Intern Med 1989 Nov; 149(11):2404–6

Effects of a comprehensive program for teenage parents: five years after project redirection. Polit DF. Fam Plann Perspect 1989 Jul–Aug;21(4):164–9, 187

The impoverishment of native Hawaiians and the social work challenge. Mokuau N. Health Soc Work 1990 Aug; 15(3):235–42 (39 ref.)

[Suggestions for comprehensive rehabilitative care in cerebrovascular disorders within the framework of the cerebrovascular program (discussion)] Zdichynec B. Cesk Neurol Neurochir 1989 Sep;52(5):348–50 (Cze)

[Continuing care of pediatric patients with tumors] Pičman J. Cesk Pediatr 1989 Oct;44(10):626–7 (Cze)

[Treatment of non–insulin–dependent diabetes mellitus: a plea for comprehensive care] Heine RJ. Ned Tijdschr Geneeskd 1990 Feb 10;134(6):267–70 (23 ref.) (Dut)

[Treatment of non–insulin–dependent diabetes mellitus: a plea for comprehensive care (letter)] Zuidweg J. Ned Tijdschr Geneeskd 1990 Apr 7;134(14):725–6 (Dut)

ECONOMICS

AIDS projects [news] Minn Med 1990 Apr;73(4):51

METHODS

The surgical–prosthetic method of cleft lip and palate care: development of a comprehensive program. Hagerty RF, et al. J S C Med Assoc 1989 Dec;85(12):549–53 (10 ref.)

Summary of patient data from a multidisciplinary neurofibromatosis clinic. Schorry EK, et al. Neurofibromatosis 1989;2(2):129–34

Pediatric AIDS: systematic approach to patient management. Mangos JA, et al. Tex Med 1990 Apr;86(4):40–2

ORGANIZATION & ADMINISTRATION

The Broward network for comprehensive care for AIDS: a public health response. Konigsberg C Jr. J Fla Med Assoc 1989 Apr;76(4):395–8

Guidelines for organizing a comprehensive neurofibromatosis program. Riccardi VM. Neurofibromatosis 1988; 1(2):105–19

TRENDS

Comprehensive sexual health centers: is it time? Levine SB. J Sex Marital Ther 1989 Fall;15(3):215–24

Primary medical care for IVDU's: a model for future care. Schottenfeld RS, et al. NIDA Res Monogr 1989;95:403–4

[Principles and experiences with comprehensive management strategies of patients with alcohol abuse and dependence] von Keyserlingk H. Z Arztl Fortbild (Jena) 1989; 83(16):811–3 (Ger)

UTILIZATION

Help–seeking and referrals in a needle exchange: a comprehensive service to injecting drug users. Carvell AM, et al. Br J Addict 1990 Feb;85(2):235–40

COMPREHENSIVE HEALTH INSURANCE see INSURANCE, MAJOR MEDICAL

COMPREHENSIVE HEALTH PLANNING see REGIONAL HEALTH PLANNING

COMPREHENSIVE HEALTH PLANS, STATE see STATE HEALTH PLANS

COMPULSIVE BEHAVIOR

see related OBSESSIVE–COMPULSIVE DISORDER

Recognizing the psychiatric water intoxicator. Stanley–Tilt CA. Am J Nurs 1989 Dec;89(12):1636–7

The compulsive veterinarian—dedicated or obsessed? Antelyes J. J Am Vet Med Assoc 1989 Dec 15; 195(12):1696–8

COMPLICATIONS

Altered state of consciousness in a compulsive water drinker [see comments] Lee S, et al. Br J Psychiatry 1989 Apr; 154:556–8 Comment in: Br J Psychiatry 1989 Aug;155:266.

PSYCHOLOGY

Compulsive water drinkers [letter; comment] [see comments] Cooney JA. Br J Psychiatry 1989 Aug;155:266 Comment on: Br J Psychiatry 1989 Apr;154:556–8. Comment in: Br J Psychiatry 1989 Dec;155:866–7.

Interepisodic morbidity in Kleine–Levin syndrome. Sagar RS, et al. Br J Psychiatry 1990 Jul;157:139–41

The compulsion to repeat in action: a developmental perspective. Busch F. Int J Psychoanal 1989;70 (Pt 3):535–44

Depression, episodic behavioral dyscontrol, and polydipsia following right temporal lobe damage. Rubenstein JL, et al. J Am Acad Child Adolesc Psychiatry 1990 May; 29(3):472–4

From one addiction to another: life after alcohol and drug abuse. Hatcher AS. Nurse Pract 1989 Nov;14(11):13–4, 16–7, 20

[Repetition and its psychic function] Angelergues R. Psychiatr Enfant 1989;32(1):15–29 (6 ref.) (Eng. Abstr.) (Fre)

THERAPY

Therapy and chronicity. Bloom R. New Dir Ment Health Serv 1990 Summer;(46):29–36

[Treatment of the neurotic syndrome in intestinal pathology] Reshetova TV. Sov Med 1989;(10):103–4 (Rus)

COMPULSIVE PERSONALITY DISORDER see under PERSONALITY DISORDERS

COMPUTED TOMOGRAPHY SCANNERS, X–RAY see TOMOGRAPHY SCANNERS, X–RAY COMPUTED

COMPUTER ARCHITECTURE see COMPUTER SYSTEMS

COMPUTER–ASSISTED DECISION MAKING see DECISION MAKING, COMPUTER–ASSISTED

COMPUTER–ASSISTED DIAGNOSIS see DIAGNOSIS, COMPUTER ASSISTED

COMPUTER–ASSISTED IMAGE PROCESSING see IMAGE PROCESSING, COMPUTER–ASSISTED

COMPUTER ASSISTED INSTRUCTION

Medical informatics for the other ninety percent: the Dartmouth experience. Beck JR, et al. Acad Med 1990 May; 65(5):298–301

Computer databases as an educational tool in the basic sciences. Friedman CP, et al. Acad Med 1990 Jan;65(1):15–6

The case for hypermedia. Frisse ME. Acad Med 1990 Jan; 65(1):17–9

A field test of the TIME patient simulation model. Harless WG, et al. Acad Med 1990 May;65(5):327–33

Evaluating preclinical medical students by using computer–based problem–solving examinations. Stevens RH, et al. Acad Med 1989 Nov;64(11):685–7

Evaluation by second–year medical students of their computer–aided instruction. Xakellis GC, et al. Acad Med 1990 Jan;65(1):23–6

The Anesthesia Simulator–Recorder: a device to train and

evaluate anesthesiologists' responses to critical incidents. Schwid HA, et al. **Anesthesiology** 1990 Jan;72(1):191–7

Evaluation of computer case simulations for teaching clinical pathology to second-year medical students. Wu AH, et al. **Ann Clin Lab Sci** 1990 Mar–Apr;20(2):154–60

Structural modifications of higher level computer languages for elementary education. Levinson H, et al. **Ann N Y Acad Sci** 1989;576:292–7

Mutant insulins: a case-study for computer-assisted learning. Lockhart IN, et al. **Biochem Soc Trans** 1990 Apr; 18(2):250–1

Metabolic mosaics: a computer-assisted learning package for metabolism. McCallion K, et al. **Biochem Soc Trans** 1990 Apr;18(2):249–50

Robert Still is my favourite patient (and software). Goldman B. **Can Med Assoc J** 1990 Feb 1;142(3):244–6

Clinical skill-building simulations in cardiology: HeartLab and EkgLab. Bergeron BP, et al. **Comput Methods Programs Biomed** 1989 Oct–Nov; 30(2–3):111–26

Case-based tutoring from a medical knowledge base. Chin HL, et al. **Comput Methods Programs Biomed** 1989 Oct–Nov;30(2–3):185–98

Community health behavior change through computer network health promotion: preliminary findings from Stanford Health-Net. Robinson TN. **Comput Methods Programs Biomed** 1989 Oct–Nov; 30(2–3):137–44

IBM, education, and you. An interview with Herb Cotter, Director of Academic Computing for IBM [interview] Cotter H. **Comput Nurs** 1989 Nov–Dec;7(6):273–7

Authoring options for computer assisted nursing instruction. Gerheim SM. **Comput Nurs** 1990 Jan–Feb;8(1):29–33

The development of a computer-based tutorial for an introductory course on nursing research. Holzemer WL, et al. **Comput Nurs** 1989 Nov–Dec;7(6):258–65

Learning mnemonics: a preliminary evaluation of a computer-aided instruction package for the elderly. Finkel SI, et al. **Exp Aging Res** 1989 Autumn–Winter; 15(3–4):199–201

Endoscopic simulation for training [editorial] Barde CJ. **Gastrointest Endosc** 1989 Sep–Oct;35(5):462–3

Computer-assisted teaching and learning in medicine. Klar R, et al. **Int J Biomed Comput** 1990 Jul;26(1–2):7–27 (37 ref.)

PC-based training system for clinical use of a lung ventilator. Frey W, et al. **Int J Clin Monit Comput** 1990 Jan;7(1):15–9

A computer-assisted, interactive radiology learning program. Goldberg HI, et al. **Invest Radiol** 1990 Aug;25(8):947–51

A survey of computer education in coordinated undergraduate programs. Perkin JE, et al. **J Am Diet Assoc** 1989 Oct;89(10):1500–2

Computer graphics in the teaching and learning of anatomy. Rajendran K, et al. **J Audiov Media Med** 1990 Apr; 13(2):49–52

HyperCard: teaching technology for successful learning. Spencer KA. **J Audiov Media Med** 1990 Jan;13(1):25–30

Cognitive networking as a learning strategy. Richards J, et al. **J Biocommun** 1990;17(1):9–11

CHEMLEARN: microcomputer-based training for CHEMLINE, an alternative to formal classroom training. Spann ML, et al. **J Chem Inf Comput Sci** 1990 Feb; 30(1):48–52

Use of computer-assisted instruction in the prevention of alcohol abuse. Meier ST, et al. **J Drug Educ** 1989; 19(3):245–56 (41 ref.)

Medical education and the role of computers—as seen through the eyes of a medical student. West SA. **J Med Syst** 1989 Oct;13(5):237–41

Adult learning styles and attitudes toward computer assisted instruction. Brudenell I, et al. **J Nurs Educ** 1990 Feb; 29(2):79–83

Nursing students' preferences in the use of computer assisted learning. Koch EW, et al. **J Nurs Educ** 1990 Mar; 29(3):122–6

Learning theory and knowledge structures in computer-aided instruction. Jelovsek FR, et al. **MD Comput** 1990 Mar–Apr;7(2):98–103

Computer-assisted learning in morbid anatomy. A stimulation of autopsy procedures and death certification. Cross SS, et al. **Med Sci Law** 1990 Apr;30(2):115–8

New media in medical education. Ackerman MJ. **Methods Inf Med** 1989 Nov;28(4):327–31

Computer-based exercises in anemia diagnosis (PlanAlyzer). Beck JR, et al. **Methods Inf Med** 1989 Nov;28(4):364–9

Interactive videodisc as an instructional tool in medical education. Culbert AJ Jr, et al. **Methods Inf Med** 1989 Nov; 28(4):357–9

Interactive computer-video modules for health sciences education. McArthur JR, et al. **Methods Inf Med** 1989 Nov; 28(4):360–3

Use of the Quick Medical Reference (QMR) program as a tool for medical education. Miller RA, et al. **Methods Inf Med** 1989 Nov;28(4):340–5

Creation of realistic appearing simulated patient cases using the INTERNIST-1/QMR knowledge base and interrelationship properties of manifestations. Parker RC, et al. **Methods Inf Med** 1989 Nov;28(4):346–51

Computers in a human perspective: an alternative way of teaching informatics to health professionals. Schneider W. **Methods Inf Med** 1989 Nov;28(4):313–20

The implications of cognitive psychology for computer-assisted instruction. Walsh SH. **Methods Inf Med** 1989 Nov;28(4):324–6

Iliad: moving medical decision-making into new frontiers. Warner HR Jr. **Methods Inf Med** 1989 Nov;28(4):370–2

The microcomputer in biomedical education. Booth AG, et al. **Prog Med Chem** 1989;26:323–54 (31 ref.)

The English National Board Computer Assisted Learning Project—an update. Massie S. **Radiogr Today** 1989 Apr; 55(623):28

Is computer assisted instruction for you? Hulse SF. **Radiol Technol** 1990 Jan–Feb;61(3):227–9

The effectiveness of a computer-assisted instruction program upon learning the X-ray machine circuit. Rowe JL. **Radiol Technol** 1989 Nov–Dec;61(2):115–8

Hypermedia techniques for diagnostic imaging instruction [letter; comment] Bramble JM. **Radiology** 1989 Dec; 173(3):878–9 Comment on: Radiology 1989 May;171(2):475–80.

[Experiences with computer simulation of (ENT) patients (published erratum appears in Ned Tijdschr Geneeskd 1990 May 12;134(19):984)] van Rijn AJ, et al. **Ned Tijdschr Geneeskd** 1990 Apr 14;134(15):772–5 **(Dut)**

[Interactive Microcomputer Method of Lipreading (MIMILLE): an interactive microcomputerized method of lipreading] Benguerel AP, et al. **Audiology** 1989; 28(5):284–94 (Eng. Abstr.) **(Fre)**

[Graphic informatics and medical education. Computer assisted education. Application to the teaching of sphenoid bone anatomy] Constantin B, et al. **Bull Assoc Anat (Nancy)** 1989 Dec;73(223):15–7 (Eng. Abstr.) **(Fre)**

[Using computers with autistic handicapped children] Bernard-Opitz V, et al. **Z Kinder Jugendpsychiatr** 1989 Sep; 17(3):125–30 (Eng. Abstr.) **(Ger)**

[Control of students' knowledge of histology, cytology and embryology using a computerized test system] Iurina NA, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):92–4 **(Rus)**

[The use of the class of KUVT–86 computers for examination of pathologic anatomy] Ptashekas RS, et al. **Arkh Patol** 1989;51(9):67–9 (Eng. Abstr.) **(Rus)**

[First experimental experience in using three-dimensional images in computer-assisted teaching of students] Posazhennikov AP, et al. **Vestn Oftalmol** 1989 Nov–Dec; 105(6):45–6 (Eng. Abstr.) **(Rus)**

[Experience in the health education of workers in public nutrition and commerce by full-time and correspondence methods using computerized control of the learning] Gavrilenko EV, et al. **Vopr Pitan** 1989 May–Jun;(3):73–4 **(Rus)**

[Demonstration of several functions of motoneurons using microcomputers] Lima FE, et al. **Acta Physiol Pharmacol Latinoam** 1988;38(3):309–17 (Eng. Abstr.) **(Spa)**

ECONOMICS

A low-cost computer-assisted teaching package for kidney dialysis: a preliminary report. Hampelé C, et al. **J Med Eng Technol** 1990 Jul–Aug;14(4):158–61

INSTRUMENTATION

[A model for the design of a checking and teaching program using the Elektronika D3–28 microcomputer] Blinova LL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug; (8):111–4 **(Rus)**

METHODS

Computer-aided self-instruction training with hearing-impaired impulsive students. Campbell DS, et al. **Am Ann Deaf** 1989 Jul;134(3):227–31

The efficiency and effectiveness of an interactive videodisc system to teach sign language vocabulary. Slike SB, et al. **Am Ann Deaf** 1989 Oct;134(4):288–90

Aptitude by treatment interactions in computer-assisted word learning by mentally retarded students. Conners FA. **Am J Ment Retard** 1990 Jan;94(4):387–97

The computer as teacher. Arnold JM. **Am J Nurs** 1990 Apr; 90(4):106

A computer program for enhancing visuomotor skills. Farrell W, et al. **Am J Occup Ther** 1990 Jun;44(6):557–9

A microcomputer application curriculum for emergency medicine residents using computer-assisted instruction. Overton DT. **Ann Emerg Med** 1990 May;19(5):584–6

Rehearsing decisions may help teenagers: an evaluation of a simulation game. Alemi F, et al. **Comput Biol Med** 1989; 19(4):283–90 (20 ref.)

MR-tutor: a program for teaching the interdependence of factors which influence signal intensity in magnetic resonance imaging. Posteraro RH, et al. **Comput Med Imaging Graph** 1989 Sep–Oct;13(5):393–406

Automated continuing education and patient education. Masten Y, et al. **Comput Nurs** 1990 Jul–Aug;8(4):144–50

Computer-assisted patient education [letter] Sumner W 2d. **Fam Med** 1990 Mar–Apr;22(2):92–3

Computer-assisted instruction in cancer for third-year medical students using the Physician Data Query (PDQ) system. Ringenberg QS, et al. **J Cancer Educ** 1989;4(1):11–5

Catching information technology by the tail for problem-based learning. Vickers JD. **J Dent Educ** 1990 Sep;54(9):557–9

Computer based instruction of diabetic children and adolescents. Techniques and results. Dammacco F, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):141–2

Use of interactive videodisc for teaching of pathology laboratory cases. Kumar K, et al. **J Pathol** 1990 Feb; 160(2):145–9

Computer-assisted drug prevention. Barber JG. **J Subst Abuse Treat** 1990;7(2):125–31

Computer games to enhance adolescent sex education. Starn J, et al. **MCN** 1990 Jul–Aug;15(4):250–3

Small-group interactive computer-assisted teaching. Shannon JD. **Med Educ** 1990 Mar;24(2):148–50

Computer applications for staff development and patient education. Hannah KJ, et al. **Methods Inf Med** 1989 Nov; 28(4):261–6 (50 ref.)

Use of computer-assisted instruction in the health sciences. Lassan R. **Nurs Forum** 1989;24(2):13–7

[Use of computers in the training of medical students in medical statistics] Miniaev VA, et al. **Sov Zdravookhr** 1990; (2):63–5 **(Rus)**

[Use of computers in the advanced training of public health administrators] Nizamov IG, et al. **Sov Zdravookhr** 1990; (2):62–3 (Eng. Abstr.) **(Rus)**

STANDARDS

[Hygienic substantiation of the system of education based on information science and technology in senior classes using computers] Mordvinov AG. **Gig Sanit** 1989 Sep; (9):8–10 (Eng. Abstr.) **(Rus)**

TRENDS

Newer methods in education: computer assisted instruction. Fahl J. **Bull N Y Acad Med** 1989 Nov;65(9):998–1003

Factors influencing the development and use of interactive video in nursing education. A Delphi study. Rizzolo MA. **Comput Nurs** 1990 Jul–Aug;8(4):151–9

Computer training in nurse education: a bird's eye view across the UK. Chambers M, et al. **J Adv Nurs** 1990 Jan; 15(1):16–21

Computers—problems and the future [editorial] **Med Teach** 1989;11(2):135–7

Factors affecting computer-mediated instruction in medical education. Levy AH. **Methods Inf Med** 1989 Nov; 28(4):215–22

COMPUTER-ASSISTED RADIOTHERAPY see **RADIOTHERAPY, COMPUTER-ASSISTED**

COMPUTER-ASSISTED THERAPY see **THERAPY, COMPUTER-ASSISTED**

COMPUTER COMMUNICATION NETWORKS see under **COMPUTER SYSTEMS**

COMPUTER DATA PROCESSING see **AUTOMATIC DATA PROCESSING**

COMPUTER GRAPHICS

Computer-aided three-dimensional reconstruction of the inner hair cells and their nerve endings in the guinea pig cochlea. Hashimoto S, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):228–34

3-D components of a biological neural network visualized in computer generated imagery. I. Macular receptive field organization. Ross MD, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):83–92

3-D components of a biological neural network visualized in computer generated imagery. II. Macular neural network organization. Ross MD, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):235–44

Colposcopy and computer graphics [letter; comment] Fegerl HE. **Am J Obstet Gynecol** 1990 May;162(5):1347–8 Comment on: Am J Obstet Gynecol 1989 Mar;160(3):535–8.

Comparison of color flow and 3D image by computer graphics for the evaluation of carotid disease. Houi K, et al. **Angiology** 1990 Apr;41(4):305–12

Three-dimensional anatomy of the human endolymphatic sac. Bagger-Sjöbäck D, et al. **Arch Otolaryngol Head Neck Surg** 1990 Mar;116(3):345–9

Graph theoretic analysis of compartmental models. With applications to thyroid hormone metabolic systems. Feng D. **Biomed Sci Instrum** 1990;26:193–200

Spatial reconstruction of coronary arteries from biplane coronary angiograms. Guggenheim N, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:70–1

Graphic representation of long DNA sequences by the method of H curves—current results and future aspects. Hamori E. **Biotechniques** 1989 Jul–Aug;7(7):710–20 (34 ref.)

Three-dimensional computergraphic analysis of apraxia. Neural representations of learned movement. Poizner H, et al. **Brain** 1990 Feb;113 (Pt 1):85–101

Software to analyze regional left ventricular function. Kay JC, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S74

Computer-aided design and computer-aided manufacturing (CAD/CAM) in prosthetics. Topper AK, et al. **Clin Orthop** 1990 Jul;(256):39–43

Dataface: a suggested method for visual data reduction for pattern recognition. Birnholz JC, et al. **Clin Phys Physiol Meas** 1981 Nov;2(4):293–8

(PLOT79): a comprehensive portable Fortran scientific line graphics system, as applied to biomedical research. Beebe

NH, et al. Comput Biol Med 1989;19(6):385–402
A new method for three-dimensional reconstruction from serial sections by computer graphics using "meta-balls": reconstruction of "hepatoskeletal system" formed by Ito cells in the cod liver. Tatsumi H, et al.
Comput Biomed Res 1990 Feb;23(1):37–45
Three-dimensional computer model of the heart: fibrillation induced by extrastimulation. Thakor NV, et al.
Comput Biomed Res 1989 Dec;22(6):532–45
Pseudocolor display of regional organ blood flow determined by means of the radioactive microsphere technique. Gross W, et al. Comput Med Imaging Graph 1990 Jan–Feb; 14(1):1–11
Three-dimensional surface reconstructions using a general purpose image processing system. Hoffmeister JW, et al. Comput Med Imaging Graph 1990 Jan–Feb;14(1):35–42
How to draw irregular radiation beams in 3-D treatment plans. Jacky JP, et al. Comput Med Imaging Graph 1990 Mar–Apr;14(2):97–105
Computer-aided three-dimensional reconstructions of biological objects using simple facilities. Spaček J, et al. Folia Biol (Praha) 1989;35(5):329–37
Imaging workstations for computer-aided primatology: promises and pitfalls. Vannier MW, et al.
Folia Primatol (Basel) 1989;53(1–4):7–21
Proximity compatibility and information display: effects of color, space, and object display on information integration. Wickens CD, et al. Hum Factors 1990 Feb;32(1):61–77
Limits of fusion and depth judgment in stereoscopic color displays. Yeh YY, et al. Hum Factors 1990 Feb;32(1):45–60
Graphical representation of cancer incidence data: Chernoff faces. Rahu M. Int J Epidemiol 1989 Dec;18(4):763–7
Graphical analysis of topographical trends (GATT) in automated perimetry. Weber J, et al. Int Ophthalmol 1989 Sep;13(5):351–6
The personalized hip prosthesis. Aldinger G, et al.
Ital J Orthop Traumatol 1988 Dec;14(4):429–33
Three-dimensional reconstruction of the foot from computed tomography scans. Hirsch BE, et al.
J Am Podiatr Med Assoc 1989 Aug;79(8):384–94
Painting with pixels. Kyte S. J Audiov Media Med 1989 Apr; 12(2):76–9
Computer graphics in the teaching and learning of anatomy. Rajendran K, et al. J Audiov Media Med 1990 Apr; 13(2):49–52
Adverse reactions of imidazole antifungal agents: computer graphic studies of cytochrome P-450 interactions. Lewis DF, et al. J Biochem Toxicol 1989 Winter;4(4):231–4
The Imaging Center Concept: its place in a medical media center. Giannavola S. J Biol Photogr 1990 Apr;58(2):61–3
Prediction of total knee motion using a three-dimensional computer-graphics model. Garg A, et al. J Biomech 1990; 23(1):45–58
Analysis of intentional head gestures to assist computer access by physically disabled people. Harwin WS, et al.
J Biomed Eng 1990 May;12(3):193–8
GEOM: a new tool for molecular modelling based on distance geometry calculations with NMR data. Sanner M, et al. J Comput Aided Mol Des 1989 Sep;3(3):195–210
Morphogenesis of the brain as studied by 3-D computer graphics simulation. Fujita S. J Microsc 1990 Mar;157 (Pt 3):259–69
Three-dimensional magnetic resonance images of the brain: application to neurosurgical planning. Hu XP, et al.
J Neurosurg 1990 Mar;72(3):433–40
A computergraphic investigation into the pharmacological role of the THC-cannabinoid phenolic moiety. Semus SF, et al. Life Sci 1990;46(24):1781–5
Use of spreadsheets to manipulate field scanning data. Nikesch W. Med Dosim 1990 Jun;15(2):71–5
Three-dimensional computer reconstruction of a temporal bone. Lutz C, et al. Otolaryngol Head Neck Surg 1989 Nov; 101(5):522–6
Computer-aided three-dimensional reconstruction and measurement of the round window and its membrane. Takahashi H, et al. Otolaryngol Head Neck Surg 1989 Nov; 101(5):517–21
Computed simulationgraphy: concept and method of clinical application. Ogino T, et al. Radiat Med 1990 Jan–Feb; 8(1):29–33
The lower esophageal sphincter shown by a computerized representation. Bemelman WA, et al.
Scand J Gastroenterol 1990 Jun;25(6):601–8
The reign of trial and error draws to a close [news] Waldrop MM. Science 1990 Jan 5;247(4938):28–9
Evaluation of endoscopic ultrasonography for gastric tumors and presentation of three-dimensional display of endoscopic ultrasonography. Hashimoto H, et al.
Surg Endosc 1989;3(4):173–81
Distribution of arterial lesions and collateral pathways in the pulmonary hypertension of congenital heart disease: a computer aided reconstruction study. Yaginuma G, et al. Thorax 1990 Aug;45(8):586–90
Ultrasonographic anatomy of normal prostate gland: reconstruction by computer graphics. Kaye KW, et al. Urology 1990 Jan;35(1):12–7
[Graphic informatics and medical education. Computer assisted education. Application to the teaching of sphenoid bone anatomy] Constantin B, et al.
Bull Assoc Anat (Nancy) 1989 Dec;73(223):15–7 (Eng. Abstr.) (Fre)
[Topography of hypoxia-induced cerebral extravasations] Kirschbaum M, et al. Arch Gynecol Obstet 1989; 245(1–4):348–50 (Ger)
[Hypertext—a new text and data processing system] Claus I, et al. Beitr Gerichtl Med 1989;47:571–2 (Eng. Abstr.) (Ger)
[Digital image processing in medicine. Texture analysis and 3D reconstruction] Ameling W. Biomed Tech (Berlin) 1989; 34 Suppl:1–7 (Ger)
[A computer-assisted noninvasive monitoring system with graphic display of online determination of cardiovascular parameters] Castor G, et al. Biomed Tech (Berlin) 1989 Nov;34(11):262–7 (Eng. Abstr.) (Ger)
[Movement analysis in the cat—use of roentgen technics for the description of movements of the distal extremities in space] Häussler J, et al. Biomed Tech (Berlin) 1989;34 Suppl:148–9 (Ger)
["Aachen 3-D-finger". Development of a 3-D-digitizer for use in dental, oral and maxillary treatment] Schmitt W, et al. Biomed Tech (Berlin) 1990 Apr;35(4):69–71 (Eng. Abstr.) (Ger)
[Transesophageal echo computer tomography (ECHO-CT): a new method of dynamic 3-D reconstruction of the heart] Wollschläger H, et al. Biomed Tech (Berlin) 1989;34 Suppl:10–1 (Ger)
[Graphic assessment of retinal findings by computer] Effert R, et al. Fortschr Ophthalmol 1989;86(6):611–3 (Eng. Abstr.) (Ger)
[The computer-assisted spatial reconstruction of the hip acetabulum] Korall H, et al. Gegenbaurs Morphol Jahrb 1989;135(5):727–40 (Eng. Abstr.) (Ger)
[Continuous profile perimetry] Schubart P.
Klin Monatsbl Augenheilkd 1990 Feb;196(2):94–100 (Eng. Abstr.) (Ger)
[Graphic analysis of topographic trends in perimetry follow-up of glaucoma] Weber J, et al.
Klin Monatsbl Augenheilkd 1989 Nov;195(5):319–22 (Eng. Abstr.) (Ger)
[Distortion of progressive addition lenses and its physiologic evaluation] Wehmeyer K, et al.
Klin Monatsbl Augenheilkd 1989 Jul;195(1):44–7 (Eng. Abstr.) (Ger)
[3-D reconstruction in radiotherapy] Leitner H.
Radiobiol Radiother (Berl) 1990;31(2):185–8 (Eng. Abstr.) (Ger)
[Possibilities of 3-dimensional ultrasound imaging] Sohn C, et al. Ultraschall Med 1989 Dec;10(6):307–13 (Eng. Abstr.) (Ger)
[Spatial and numerical representations in art and cardiology] Heintzen P. Z Kardiol 1989;78 Suppl 7:1–18 (Ger)
[Let's study exponential function related to anesthesiology by using computer graphics—Part II: Wash-in exponential function] Ueda W. Masui 1989 Aug;38(8):1068–71 (Eng. Abstr.) (Jpn)
[Let's study exponential function related to anesthesiology by using computer graphics—Part I: Wash-out exponential function] Ueda W. Masui 1989 Jul;38(7):927–31 (Eng. Abstr.) (Jpn)
[Let's study pharmacokinetics related to anesthesiology by using computer graphics: intravenous drugs] Ueda W, et al. Masui 1989 Oct;38(10):1349–54 (Eng. Abstr.) (Jpn)
[Let's study pharmacokinetics related to anesthesiology by using computer graphics: inhalation anesthetics] Ueda W, et al. Masui 1990 Jan;39(1):85–92 (Eng. Abstr.) (Jpn)
[The mechanism of blood outflow from the cavernous tissue of human penis by computer graphics] Takanami M.
Nippon Hinyokika Gakkai Zasshi 1989 Sep;80(9):1302–9 (Eng. Abstr.) (Jpn)
[Graphical methods to analyze overall pathophysiological data structure from laboratory database: selective approach to search uncommon or borderline abnormalities] Ichihara K, et al. Rinsho Byori 1990 Jan;Spec No 83:39–53 (Jpn)
[Graphic presentation of data and automatic analysis] Matsuda N, et al. Rinsho Byori 1988 May;Spec No 77:31–42 (Jpn)
[Graphic display of laboratory informations on pathophysiology] Niwa M, et al. Rinsho Byori 1990 Jan; Spec No 83:92–111 (Jpn)
[A polymetric procedure for assessing the functional state of the human using graphic methods for recognizing patterns] Dmitrieva NV, et al. Fiziol Cheloveka 1989 Jul–Aug;15(4):103–12 (Rus)
[Use of computer technics for solving hygienic problems based on the principles of biokinetics] Pavlov VN, et al. Gig Sanit 1989 Jun;(6):18–20 (Rus)
[Use of centigrade nomograms for evaluating the physical development of children] Tashbaev OS, et al. Gig Sanit 1989 Aug;(8):37–8 (Rus)
[A raster method for the analysis of the periodic structure of biorhythms] Alpatov AM. Kosm Biol Aviakosm Med 1989 Sep–Oct;23(5):83–5 (Rus)
[A method of graphic image of the amplitude of hand movements] Bizhko IP, et al. Ortop Travmatol Protez 1990 May;(5):56–8 (Rus)

STANDARDS

Automating the recording and improving the presentation of the anesthesia record. Ream AK. J Clin Monit 1989 Oct;5(4):270–83
Video image digitizers revisited. McDonald CJ.
MD Comput 1989 Nov–Dec;6(6):326–8

COMPUTER HARDWARE see COMPUTERS

COMPUTER LITERACY

Increasing computer literacy in speech-language pathology students. Paul R. ASHA 1990 Apr;32(4):63–4
Computers and the presentation skills of students [letter] Levy F. Aust N Z J Psychiatry 1990 Jun;24(2):165

COMPUTER MODELS see COMPUTER SIMULATION

COMPUTER PROGRAMS see SOFTWARE

COMPUTER REASONING see ARTIFICIAL INTELLIGENCE

COMPUTER SIMULATION

see related
MODELS, THEORETICAL
A field test of the TIME patient simulation model. Harless WG, et al. Acad Med 1990 May;65(5):327–33
Electric current distribution in tissues upon electrotherapy. Lambert H, et al. Acta Belg Med Phys 1989 Apr–Jun; 12(2):31–40
Model structure of a fragment of biological knowledge (cell motility). Doroszewski J, et al. Acta Biotheor (Leiden) 1988; 37(3–4):237–66
A simulated annealing approach to the search problem of protein crystallography. Subbiah S, et al.
Acta Crystallogr A 1989 May 1;45 (Pt 5):337–42
Changes in the histograms of nerves resulting from growth and various modalities of damage. A computer simulation. Bunker E, et al. Acta Neuropathol (Berl) 1989;78(5):521–7
Laryngostroboscopy and glottic dysrhythmia's. Dejonckere PH, et al. Acta Otorhinolaryngol Belg 1989;43(1):19–29
Thalamocortical reverberation circuit simulation using the simula language. Faber J, et al.
Acta Univ Carol [Med] (Praha) 1988;34(3–4):149–248
Evolutional approach to extremization of vector criteria of simulation models. Weinberger J.
Acta Univ Carol [Med] (Praha) 1988;34(3–4):249–57
A model of cigarette smoke particle deposition. Muller WJ, et al. Am Ind Hyg Assoc J 1990 May;51(5):245–56
Computer simulation in the design of local exhaust hoods for shielded metal arc welding [published erratum appears in Am Ind Hyg Assoc J 1990 Jun;51(6):325] Tum Suden KD, et al. Am Ind Hyg Assoc J 1990 Mar;51(3):115–26
Concurrent compliance reduction and increased peripheral resistance in the manifestation of isolated systolic hypertension. Berger DS, et al. Am J Cardiol 1990 Jan 1;65(1):67–71
Nosocomial infections: validation of surveillance and computer modeling to identify patients at risk. Broderick A, et al. Am J Epidemiol 1990 Apr;131(4):734–42
Monte Carlo comparison of preliminary methods for ordering multiple genetic loci. Olson JM, et al.
Am J Hum Genet 1990 Sep;47(3):470–82
Social mechanisms in the population genetics of Tay–Sachs and other lethal autosomal recessive diseases: a computer simulation model. McKusick KB, et al.
Am J Med Genet 1990 Jun;36(2):178–82
A computer model for the evaluation of the effect of corneal topography on optical performance. Camp JJ, et al.
Am J Ophthalmol 1990 Apr 15;109(4):379–86
Microprocessor-based analysis of sympathetic nerve traffic. Brown DR, et al. Am J Physiol 1989 Oct;257(4 Pt 2):R958–63
Unappreciation of a priori identifiability in software packages causes ambiguities in numerical estimates [letter] Cobelli C, et al. Am J Physiol 1990 Jun;258(6 Pt 1):E1058–9
Parameter estimation: local identifiability of parameters. Jacquez JA, et al. Am J Physiol 1990 Apr;258(4 Pt 1):E727–36
Mechanism of Wenckebach periods: hypothesis based on computer modeling experiments. Malik M, et al.
Am J Physiol 1989 Oct;257(4 Pt 2):H1263–74
Delayed detection of hypoxic events by pulse oximeters: computer simulations. Verhoeff F, et al. Anaesthesia 1990 Feb;45(2):103–9
Computer simulation (based on a linear-elution-strength approximation) as an aid for optimizing separations by programmed-temperature gas chromatography. Bautz DE, et al. Anal Chem 1990 Aug 1;62(15):1560–7
Comparative tissue concentration profiles of fentanyl and alfentanil in humans predicted from tissue/blood partition data obtained in rats. Björkman S, et al. Anesthesiology 1990 May;72(5):865–73
Understanding pharmacokinetics and pharmacodynamics through computer stimulation: I. The comparative clinical profiles of fentanyl and alfentanil. Ebling WF, et al.
Anesthesiology 1990 Apr;72(4):650–8
How far can we go with compartmental models? [comment] Hull CJ. Anesthesiology 1990 Mar;72(3):399–402 Comment on: Anesthesiology 1990 Mar;72(3):403–11. Comment on: Anesthesiology 1990 Mar;72(3):412–22.
The Anesthesia Simulator-Recorder: a device to train and evaluate anesthesiologists' responses to critical incidents. Schwid HA, et al. Anesthesiology 1990 Jan;72(1):191–7
Pharmacokinetic modeling of ethyl loflazepate (Victan) and its main active metabolites. Ba BB, et al.
Ann Biomed Eng 1989;17(6):633–46
Computer simulation of the mechanically-assisted failing canine circulation. Barnea O, et al. Ann Biomed Eng 1990;

18(3):263–83
Correcting for the thermodynamic characteristics of a body plethysmograph. Bates JH. **Ann Biomed Eng** 1989; 17(6):647–55
A dynamic nonlinear lumped parameter model for skeletal muscle circulation. Braakman R, et al. **Ann Biomed Eng** 1989;17(6):593–616
Simulation of airway closure during forced vital capacity. Elad D, et al. **Ann Biomed Eng** 1989;17(6):617–31
Central venous blood temperature fluctuations and thermodilution signal processing in dogs. Johnson RW, et al. **Ann Biomed Eng** 1989;17(6):657–69
An orthogonal ARMA identifier with automatic order estimation for biological modeling. Korenberg MJ, et al. **Ann Biomed Eng** 1989;17(6):571–92
Solid state line scan cameras for measuring strain in soft tissues and implants. Stewart SF, et al. **Ann Biomed Eng** 1989;17(6):671–84
Computer modeling of emergency medical system performance. Valenzuela TD, et al. **Ann Emerg Med** 1990 Aug;19(8):898–901
Load and go versus stay and play: analysis of prehospital i.v. fluid therapy by computer simulation. Wears RL, et al. **Ann Emerg Med** 1990 Feb;19(2):163–8
Gradient elution in preparative liquid chromatography. Antia FD, et al. **Ann N Y Acad Sci** 1990;589:172–81
Optimal induction of protein synthesis in recombinant bacterial cultures. Bentley WE, et al. **Ann N Y Acad Sci** 1990;589:121–38
Testing cleavage mechanisms by comparing computer simulations to actual experimental results. Harris AK. **Ann N Y Acad Sci** 1990;582:60–77 (19 ref.)
A highly structured model for simulation of batch and continuous cultures of B. subtilis and examination of cellular differentiation. Jeong J, et al. **Ann N Y Acad Sci** 1990;589:82–90
Fractal analysis of vasomotion. Yamashiro SM, et al. **Ann N Y Acad Sci** 1990;591:410–6
Application of modeling to lactate kinetics in exercise. Fukuba Y. **Ann Physiol Anthropol** 1990 Apr;9(2):203–11 (37 ref.)
Workshop on Modelling Sleeping Sickness Epidemiology and Control. Antwerp, 25–29 January 1988. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:1–256
Problems of field testing theoretical models: a case study. Dransfield RD, et al. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:147–54; discussion 212–4
Understanding infectious diseases: modelling approaches for the trypanosomiases. Gettinby G. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:21–30; discussion 144
Utility of epidemiologic simulation models in the planning of trypanosomiasis control programs. Habtemariam T. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:109–24; discussion 144
Three-dimensional image reconstruction for planning of a complex cardiovascular procedure. Edwards FH, et al. **Ann Thorac Surg** 1990 Mar;49(3):486–8
Use of artificial intelligence for the preoperative diagnosis of pulmonary lesions. Edwards FH, et al. **Ann Thorac Surg** 1989 Oct;48(4):556–9
Computer simulations of globular protein folding and tertiary structure. Skolnick J, et al. **Annu Rev Phys Chem** 1989; 40:207–35 (126 ref.)
Can oligonucleoside methylphosphonates form a stable triplet with a double DNA helix? Hausheer FH, et al. **Anticancer Drug Des** 1990 May;5(2):159–67
Modeling of the electrostatic potential field of plastocyanin. Durell SR, et al. **Arch Biochem Biophys** 1990 Mar; 277(2):241–54
Kinetic assembling of the biologically active secondary structure for CAR, the target sequence for the Rev protein of HIV–1. Fernández A. **Arch Biochem Biophys** 1990 Aug 1;280(2):421–4
Kinetic modeling of intradialytic and interdialytic pH shifts during and after acetate and bicarbonate hemodialysis. Monti JP, et al. **Artif Organs** 1990 Jun;14(3):191–5
Computer model of ventricular interaction during left ventricular circulatory support. Woodard JC, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):439–41
Diagnostic x-ray spectra simulation, verification and application to the clinical environment. McLean D. **Australas Phys Eng Sci Med** 1989 Sep;12(3):164–71
The time course of postflight simulator sickness symptoms. Baltzley DR, et al. **Aviat Space Environ Med** 1989 Nov; 60(11):1043–8
Control of simulator sickness in an AH–64 aviator [see comments] Kroll JD. **Aviat Space Environ Med** 1989 Dec; 60(12):1202–3 Comment in: Aviat Space Environ Med 1990 Jun;61(6):584–5.
Double-stranded DNA binding protein HU. Wilson K, et al. **Basic Life Sci** 1989;51:133–40
A computer model of human ventricular myocardium for simulation of ECG, MCG, and activation sequence including reentry rhythms. Wach P, et al. **Basic Res Cardiol** 1989 Jul–Aug;84(4):404–13
A simple method of model fitting for adoption data. Coon H, et al. **Behav Genet** 1990 May;20(3):385–404
On the existence of limit cycles in motion field. Aicardi F. **Biol Cybern** 1989;62(2):99–106
Analysis of the Lynch–Granger model for olfactory cortex. Barnard E. **Biol Cybern** 1989;62(2):151–5
Neural network implementation of a three-phase model of respiratory rhythm generation. Botros SM, et al. **Biol Cybern** 1990;63(2):143–53
Changes with background in the linear model of the transient visual system. den Brinker AC. **Biol Cybern** 1990; 62(5):441–51
Visual perception of surface curvature. The spin variation and its physiological implications. Droulez J, et al. **Biol Cybern** 1990;62(3):211–24
Stereo and eye movement. Geiger D, et al. **Biol Cybern** 1989; 62(2):117–28
Trajectory formation of arm movement by cascade neural network model based on minimum torque-change criterion. Kawato M, et al. **Biol Cybern** 1990;62(4):275–88
Modeling the olfactory bulb and its neural oscillatory processings. Li Z, et al. **Biol Cybern** 1989;61(5):379–92
Adaptively timed conditioned responses and the cerebellum: a neural network approach. Moore JW, et al. **Biol Cybern** 1989;62(1):17–28
Development of feature detectors by self-organization. A network model. Rubner J, et al. **Biol Cybern** 1990; 62(3):193–9
Conduction along myelinated and demyelinated nerve fibres during the recovery cycle: model investigations. Stephanova DI. **Biol Cybern** 1989;62(1):83–7
Structure-from-motion by tracking occlusion boundaries. Thompson WB. **Biol Cybern** 1989;62(2):113–6
Autoregression models of EEG. Results compared with expectations for a multilinear near-equilibrium biophysical process. Wright JJ, et al. **Biol Cybern** 1990;62(3):201–10
Postural dynamics in the standing human. Yang JF, et al. **Biol Cybern** 1990;62(4):309–20
Postural dynamics of walking in humans. Yang JF, et al. **Biol Cybern** 1990;62(4):321–30
Optimization of an isocratic reversed phase liquid chromatographic system for the separation of fourteen steroids using factorial design and computer simulation. Wei JQ, et al. **Biomed Chromatogr** 1990 Jan;4(1):34–8
A neural network simulation of simultaneous single-unit activity recorded from the dragonfly ganglia. Faller WE, et al. **Biomed Sci Instrum** 1990;26:201–8
Graph theoretic analysis of compartmental models. With applications to thyroid hormone metabolic systems. Feng D. **Biomed Sci Instrum** 1990;26:193–200
The improvements to a network flow approach to reconstruction of the vascular cross sections from two orthogonal projections. Bao YJ. **Biomed Tech (Berlin)** 1989; 34 Suppl:72–4
Spatial reconstruction of coronary arteries from biplane coronary angiograms. Guggenheim N, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:70–1
A computer simulation of the food effect: transient changes in hepatic blood flow and Michaelis–Menten parameters as mediators of hepatic first pass metabolism and bioavailability of propranolol. Semple HA, et al. **Biopharm Drug Dispos** 1990 Jan–Feb;11(1):61–76
Mathematical analysis of mural thrombogenesis. Concentration profiles of platelet-activating agents and effects of viscous shear flow. Folie BJ, et al. **Biophys J** 1989 Dec;56(6):1121–41
A Monte Carlo simulation study of the aqueous hydration of r(GpC)2: comparison with crystallographic ordered water sites. Subramanian PS, et al. **Biopolymers** 1990 Mar–Apr;29(4–5):771–83
A new technique in computer modeling of molecules with transparency effect, due to partially stripped surfaces. Balasubramanian R, et al. **Biosystems** 1989;23(1):15–9
Simulated evolution and artificial selection. Gibson JM. **Biosystems** 1989;23(2–3):219–28; discussion 229
Simplicity and complexity in MIRROR universes. Hogeweg P. **Biosystems** 1989;23(2–3):231–44; discussion 245–6
The effect of the yield expression on the existence of oscillatory behavior in a three-variable model of a continuous fermentation system subject to product inhibition. Lenbury YW, et al. **Biosystems** 1989;22(4):273–8
Dynamic pattern processing with adaptive excitable media. Zülicke C, et al. **Biosystems** 1989;22(4):261–72
The development of computer simulations of the geometries and thermodynamics of biological molecules. Froimowitz M. **Biotechniques** 1990 Jun;8(6):640–4, 649–52 (80 ref.)
A computer program for modeling the kinetics of gene expression. Hargrove JL, et al. **Biotechniques** 1990 Jun; 8(6):654–9
A three-dimensional reconstruction of metastatic adenocarcinoma in lymph node. Siderits RH, et al. **Biotechniques** 1990 Jun;8(6):670–2
An overview of computer algorithms for deconvolution-based assessment of in vivo neuroendocrine secretory events. Veldhuis JD, et al. **Biotechniques** 1990 Jun;8(6):634–9 (27 ref.)
Prediction of infusion rates: validation of a computer simulation using vecuronium. Harrison MJ. **Br J Anaesth** 1990 Mar;64(3):287–93
Computer simulation of respiratory impedance and flow transfer functions during high frequency oscillations. Peslin R. **Br J Anaesth** 1989;63(7 Suppl 1):91S–94S
Computer simulation of the patient for training in audiometry. Haughton PM. **Br J Audiol** 1990 Feb; 24(1):45–50
Asymmetric field arc rotations. Palta JR, et al. **Br J Radiol** 1989 Oct;62(742):927–31
Assessment of feature size abnormalities using receiver operating characteristic analysis. Warren RC, et al. **Br J Radiol** 1989 Sep;62(741):817–23
Neuronal loss and neuronal atrophy. Computer simulation in connection with Alzheimer's disease. Duyckaerts C, et al. **Brain Res** 1989 Dec 11;504(1):94–100
Effects of uniform and non-uniform synaptic 'activation-distributions' on the cable properties of modeled cortical pyramidal neurons. Holmes WR, et al. **Brain Res** 1989 Dec 25;505(1):12–22
The reference problem and mapping of coherence: a simulation study. Rappelsberger P. **Brain Topogr** 1989 Fall–Winter;2(1–2):63–72
Prediction of the left ventricular ejection fraction response to doxorubicin using a multiple linear regression model. Rabinovitch M, et al. **Can J Cardiol** 1989 Nov–Dec; 5(8):382–8
Model studies of the contribution of ventricular interdependence to the transient changes in ventricular function with respiratory efforts [published erratum appears in Cardiovasc Res 1989 Nov;23(11):992] Amoore JN, et al. **Cardiovasc Res** 1989 Aug;23(8):683–94
Theoretical calculations on calcium channel drugs: is electron transfer involved mechanistically? Kovacic P, et al. **Chem Biol Interact** 1990;75(1):61–70
Intravegetation antimicrobial distribution in aortic endocarditis analyzed by computer-generated model. Implications for treatment. Bayer AS, et al. **Chest** 1990 Mar;97(3):611–7
Programmed electrical stimulation at potential ventricular reentry circuit sites. Comparison of observations in humans with predictions from computer simulations. Stevenson WG, et al. **Circulation** 1989 Oct;80(4):793–806
Standardized testing of patient management skills. A computer-based method. Volle RL. **Clin Orthop** 1990 Aug; (257):47–51
Gas-mixing efficiency in a mathematical model of the lung. Fuller GC, et al. **Clin Phys Physiol Meas** 1990 May; 11(2):149–58
A computer model for evaluating the costs of cholecystectomy or ursodiol treatment in the management of cholelithiasis. Crain K. **Clin Ther** 1990 May–Jun; 12(3):250–62
On the analysis of microbiological processes by Monte Carlo simulation techniques. Bermúdez J, et al. **Comput Appl Biosci** 1989 Oct;5(4):305–12
A computer model of re-entry in cardiac tissue. Bailie AH, et al. **Comput Biol Med** 1990;20(1):47–54
Applied muscle modelling: implementation of muscle-specific models. Caldwell GE, et al. **Comput Biol Med** 1989;19(6):417–34
A mathematical simulation of the AIDS patient and extracorporeal detoxification. Kapadvanjwala M, et al. **Comput Biol Med** 1989;19(6):461–70
Computer program for the reservoir model of metabolic crossroads. Ribeiro JM, et al. **Comput Biol Med** 1990; 20(1):35–46
LINKERS: a simulation programming system for generating populations with genetic structure. Yang JJ, et al. **Comput Biol Med** 1990;20(2):135–44
The dynamics of HIV spread: a computer simulation model. Leslie WD, et al. **Comput Biomed Res** 1990 Aug; 23(4):380–401
A model of the pulmonary arterial bed in adults and infants. McIlroy MB, et al. **Comput Biomed Res** 1990 Apr; 23(2):130–8
Three-dimensional computer model of the heart: fibrillation induced by extrastimulation. Thakor NV, et al. **Comput Biomed Res** 1989 Dec;22(6):532–45
A method for comparing semi-parametric models with parametric models in competing risks analysis. Wan J. **Comput Biomed Res** 1989 Dec;22(6):565–74
Expected pressure-volume heterogeneity within the lung. Wiener F, et al. **Comput Biomed Res** 1989 Dec;22(6):588–98
Clinical skill-building simulations in cardiology: HeartLab and EkgLab. Bergeron BP, et al. **Comput Methods Programs Biomed** 1989 Oct-Nov; 30(2–3):111–26
Statistical tests of the IBM PC pseudorandom number generator. Gleason JM. **Comput Methods Programs Biomed** 1989 Sep;30(1):43–6
Nonlinear waveform generation. Goldstein LJ, et al. **Comput Methods Programs Biomed** 1990 Mar–Apr; 31(3–4):185–93
Monte Carlo simulation of the power of a test for the exponential distribution of survival times. Holland B. **Comput Methods Programs Biomed** 1989 Aug;29(4):245–50
Computer simulation of oral fluoride clearance. Lagerlöf F, et al. **Comput Methods Programs Biomed** 1990 Feb; 31(2):97–104
A new therapeutic parameter and computer control to approach optimal haemodialysis. Lee CJ, et al. **Comput Methods Programs Biomed** 1989 Sep;30(1):33–42
A Monte Carlo program for the simulation of scintillation camera characteristics. Ljungberg M, et al. **Comput Methods Programs Biomed** 1989 Aug;29(4):257–72
Fuzzy model of inexact reasoning in medicine. Piá P, et al. **Comput Methods Programs Biomed** 1989 Sep;30(1):1–8
ONCHOSIM: a model and computer simulation program for the transmission and control of onchocerciasis. Plaisier AP, et al. **Comput Methods Programs Biomed** 1990 Jan; 31(1):43–56
Cell cycle simulation for flow cytometry. Ubezio P.

Comput Methods Programs Biomed 1990 Mar-Apr; 31(3-4):255-66

The mechanical basis of cell rearrangement. I. Epithelial morphogenesis during Fundulus epiboly. Weliky M, et al. **Development** 1990 Jun;109(2):373-86

Blood or urine glucose-based insulin therapy and control of glycemia. Computer-simulation study. Albisser AM, et al. **Diabetes Care** 1990 Apr;13(4):393-400

Computer simulation of plasma insulin and glucose dynamics after subcutaneous insulin injection. Berger M, et al. **Diabetes Care** 1989 Nov-Dec;12(10):725-36

Impact of computer simulation on diabetes research and practice [editorial] Bergman RN, et al. **Diabetes Care** 1989 Nov-Dec;12(10):748-9

Computer-assisted development of modified-release dosage forms. Caramella C, et al. **Drug Metab Rev** 1989; 21(2):335-49 (10 ref.)

MLTIDOSE: a multiple-dose simulation program for linear systems characterized by exponential functions. Thompson GA, et al. **Drug Metab Rev** 1989-90;21(3):463-9

Locating accuracy of a current source of neuromagnetic responses: simulation study for a single current dipole in a spherical conductor. Kuriki S, et al. **Electroencephalogr Clin Neurophysiol** 1989 Dec; 73(6):499-506

Wave form decomposition of 'giant SEP' and its computer model for scalp topography. Shibasaki H, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul-Aug; 77(4):286-94

Computer-assisted evaluation of polydisperse two-dimensional gel patterns of polysaccharide-protein conjugate preparations with regard to size and net charge. Tietz D, et al. **Electrophoresis** 1989 Oct;10(10):667-80

Fault management in process control: eye movements and action. Moray N, et al. **Ergonomics** 1989 Nov; 32(11):1319-42

Structural features of neutral protease from Bacillus subtilis deduced from model-building and limited proteolysis experiments. Signor G, et al. **Eur J Biochem** 1990 Apr 30; 189(2):221-7

A computer model of antenatal care: relationship between the distribution of obstetric risk factors in simulated cases and in a real population. Chard T, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Apr;35(1):51-61

Kinetic analysis and simulation of glucose transport in plasma membrane vesicles of glucose-repressed and derepressed Saccharomyces cerevisiae cells. Fuhrmann GF, et al. **Experientia** 1989 Dec 1;45(11-12):1018-23

Computer simulation of arcuate and radial incisions involving the corneoscleral limbus. Hanna KD, et al. **Eye** 1989;3 (Pt 2):227-39

Imaging workstations for computer-aided primatology: promises and pitfalls. Vannier MW, et al. **Folia Primatol (Basel)** 1989;53(1-4):7-21

Application of simulation modeling to lipid peroxidation processes. Tappel AL, et al. **Free Radic Biol Med** 1989; 7(4):361-8

Teaching gastrointestinal endoscopy by computer simulation: a prototype for colonoscopy and ERCP. Williams CB, et al. **Gastrointest Endosc** 1990 Jan-Feb;36(1):49-54

The 'effective number of codons' used in a gene. Wright F. **Gene** 1990 Mar 1;87(1):23-9

Equivalence of the mixed and regressive models for genetic analysis. I. Continuous traits [published erratum appears in Genet Epidemiol 1990;7(1):103] Demenais FM, et al. **Genet Epidemiol** 1989;6(5):597-617

Time for spreading of compensatory mutations under gene duplication. Ohta T. **Genetics** 1989 Nov;123(3):579-84

A cladistic measure of gene flow inferred from the phylogenies of alleles. Slatkin M, et al. **Genetics** 1989 Nov; 123(3):603-13

Statistical method for testing the neutral mutation hypothesis by DNA polymorphism. Tajima F. **Genetics** 1989 Nov; 123(3):585-95

26th Hanford Life Sciences Symposium. Modeling for scaling to man: biology, dosimetry, and response. **Health Phys** 1989;57 Suppl 1:1-466

Simulation of angular and energy distributions of the PTB beta secondary standard. Faw RE, et al. **Health Phys** 1990 Sep;59(3):311-24

A resource facility for kinetic analysis: modeling using the SAAM computer programs. Foster DM, et al. **Health Phys** 1989;57 Suppl 1:457-66

What is too much variation? The null hypothesis in small-area analysis. Diehr P, et al. **Health Serv Res** 1990 Feb;24(6):741-71

Maximum likelihood estimation of linkage between a marker gene and a quantitative locus. Luo ZW, et al. **Heredity (Edinburgh)** 1989 Dec;63 (Pt 3):401-8

Simulation of the diffusion of the beta-globin variants in the Old World. Livingstone FB. **Hum Biol** 1989 Jun; 61(3):297-309

Theoretical basis for controlling minimal tumor temperature during interstitial conductive heat therapy. Babbs CF, et al. **IEEE Trans Biomed Eng** 1990 Jul;37(7):662-72

Cardiac energy considerations during intraaortic balloon pumping. Barnea O, et al. **IEEE Trans Biomed Eng** 1990 Feb;37(2):170-81

Pulsed Doppler accuracy assessment due to frequency-dependent attenuation and Rayleigh scattering error sources. Embree PM, et al. **IEEE Trans Biomed Eng** 1990 Mar;37(3):322-6

An extended soluble gas exchange model for estimating pulmonary perfusion—II: Simulation results. Jenkins JS, et al. **IEEE Trans Biomed Eng** 1989 Nov;36(11):1105-12

Left atrial pressure controller design for an artificial heart. Kitamura T. **IEEE Trans Biomed Eng** 1990 Feb;37(2):164-9

A new glucose-clamp algorithm—theoretical considerations and computer simulations. Palazzo P, et al. **IEEE Trans Biomed Eng** 1990 May;37(5):535-43

Estimation of fractional changes in peak gNa, -gNa, ENa, and h infinity (V) of cardiac cells from Vmax of the propagating action potential. Roberge FA, et al. **IEEE Trans Biomed Eng** 1990 May;37(5):489-99

Exploring the meaning of connectivity in the immune network. Stewart J, et al. **Immunol Rev** 1989 Aug;110:37-61 (25 ref.)

Is there a generally valid, minimum acceptable hemoglobin level? Lundsgaard-Hansen P, et al. **Infusionstherapie** 1989 Aug;16(4):167-75

Computer simulation of ciprofloxacin pharmacokinetics in patients on CAPD. Mrhar A, et al. **Int J Artif Organs** 1990 Mar;13(3):169-75

Computer simulation of the neural discharge carried by the abducens nerve during eye fixation in the cat. Gómez C, et al. **Int J Biomed Comput** 1989 Sep;24(3):207-15

Modeling dissolved and free phase gas dynamics under decompression. Wienke BR. **Int J Biomed Comput** 1990 Apr;25(2-3):193-205

A model-based analysis of the HIP project for breast cancer screening. van Oortmarssen GJ, et al. **Int J Cancer** 1990 Aug 15;46(2):207-13

Analysis of the household distribution of trachoma in a Gambian village using a Monte Carlo simulation procedure. Bailey R, et al. **Int J Epidemiol** 1989 Dec;18(4):944-51

Comparison of a food frequency questionnaire with a diet record. Margetts BM, et al. **Int J Epidemiol** 1989 Dec; 18(4):868-73

The behaviour of common measures of association used to assess a vaccination programme under complex disease transmission patterns—a computer simulation study of malaria vaccines. Struchiner CJ, et al. **Int J Epidemiol** 1990 Mar;19(1):187-96

Errors between two- and three-dimensional thermal model predictions of hyperthermia treatments. Chen ZP, et al. **Int J Hyperthermia** 1990 Jan-Feb;6(1):175-91

Comparison of numerical calculations with phantom experiments and clinical measurements. Paulsen KD, et al. **Int J Hyperthermia** 1990 Mar-Apr;6(2):333-49

Comparison of two-dimensional numerical approximation and measurement of SAR in a muscle equivalent phantom exposed to a 915 MHz slab-loaded waveguide. Rine GP, et al. **Int J Hyperthermia** 1990 Jan-Feb;6(1):213-25

Selection of MDT strategies through epidemiometric modeling. Lechat MF, et al. **Int J Lepr Other Mycobact Dis** 1990 Jun;58(2):296-301

Diode pump cochlear audition theory three dimensional model. Crandall WE. **Int J Neurosci** 1989 Aug; 47(3-4):249-77

CT simulator: a new 3-D planning and simulating system for radiotherapy: Part 2. Clinical application [see comments] Nagata Y, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):505-13 Comment in: Int J Radiat Oncol Biol Phys 1990 Mar;18(3):701-3.

CT simulator: a new 3-D planning and simulating system for radiotherapy: Part 1. Description of system [see comments] Nishidai T, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):499-504 Comment in: Int J Radiat Oncol Biol Phys 1990 Mar;18(3):701-3.

Computer-assisted assessment of the kinetic function of disk-type artificial heart valves. Formanek AG, et al. **Invest Radiol** 1990 Jan;25(1):24-30

Computer-simulated lung nodules in digital chest radiographs for detection studies. Yocky DA, et al. **Invest Radiol** 1990 Aug;25(8):902-7

The responses of models of "high-spontaneous" auditory-nerve fibers in a damaged cochlea to speech syllables in noise. Geisler CD. **J Acoust Soc Am** 1989 Dec; 86(6):2192-205

Stimulus selection in adaptive psychophysical procedures. Green DM. **J Acoust Soc Am** 1990 Jun;87(6):2662-74

A generalized approach to random noise synthesis: theory and computer simulation. Hsueh KD, et al. **J Acoust Soc Am** 1990 Mar;87(3):1207-17

Stereausis: binaural processing without neural delays. Shamma SA, et al. **J Acoust Soc Am** 1989 Sep; 86(3):989-1006

Phoneme discrimination using connectionist networks. Watrous RL. **J Acoust Soc Am** 1990 Apr;87(4):1753-72

Model-based optimization of infectivity parameters: a study of the early epidemic in San Francisco. Ahlgren DJ, et al. **J Acquir Immune Defic Syndr** 1990;3(6):631-43

Analysis of the secondary structure of the human immunodeficiency virus (HIV) proteins p17, gp120, and gp41 by computer modeling based on neural network methods. Andreassen H, et al. **J Acquir Immune Defic Syndr** 1990;3(6):615-22

Aortic regurgitation shortens Doppler pressure half-time in mitral stenosis: clinical evidence, in vitro simulation and theoretic analysis. Flachskampf FA, et al. **J Am Coll Cardiol** 1990 Aug;16(2):396-404

Analysis of the early transmitral Doppler velocity curve: effect of primary physiologic changes and compensatory preload adjustment. Thomas JD, et al. **J Am Coll Cardiol** 1990 Sep;16(3):644-55

A simulation model of water depth in mangrove basin forests. Ritchie SA. **J Am Mosq Control Assoc** 1990 Jun;6(2):213-22

Pressure half-time in aortic regurgitation: evaluation with Doppler in a cardiovascular hydromechanical simulator and in a computer model. Slø[…]dahl SA, et al. **J Am Soc Echocardiogr** 1990 Jan-Feb;3(1):46-53

The functional significance of the position of the centre of rotation for jaw opening and closing in the rabbit. Weijs WA, et al. **J Anat** 1989 Feb;162:133-48

Two methods for parameter estimation using multiple-trait models and beef cattle field data. Bertrand JK, et al. **J Anim Sci** 1990 Aug;68(8):2310-8

Computer modeling of sheep reproduction: II. Accelerated reproduction in sheep. Dzakuma JM, et al. **J Anim Sci** 1989 Sep;67(9):2212-21

Computer modeling of sheep reproduction: I. An algorithm for quantifying anestrous cycles in ewes. Dzakuma JM, et al. **J Anim Sci** 1989 Sep;67(9):2197-211

Right ventricular function and three-dimensional modeling using computer-aided design. Spinale FG, et al. **J Appl Physiol** 1990 Apr;68(4):1707-16

Robustness of a model of exercise. Hays RD. **J Behav Med** 1989 Dec;12(6):599-603

Fractionation of macromolecules in an alternating transverse electric field: simulation of the method. Stevens FJ. **J Biochem Biophys Methods** 1990 Apr-May;20(4):275-92

Computer simulation of blood flow in the human arm. Balar SD, et al. **J Biomech** 1989;22(6-7):691-7

Femoral head apparent density distribution predicted from bone stresses. Fyhrie DP, et al. **J Biomech** 1990;23(1):1-10

Prediction of total knee motion using a three-dimensional computer-graphics model. Garg A, et al. **J Biomech** 1990; 23(1):45-58

Computer aided stress analysis of long bones utilizing computed tomography. Marom SA, et al. **J Biomech** 1990; 23(5):399-404

Modelling of the biomechanics of posture and balance. Riley PO, et al. **J Biomech** 1990;23(5):503-6

The simulation of aerial movement—IV. A computer simulation model. Yeadon MR, et al. **J Biomech** 1990; 23(1):85-9

Three-dimensional analysis of orthodontic tooth movement. Middleton J, et al. **J Biomed Eng** 1990 Jul;12(4):319-27

Numerical 3D-stimulation of pulsatile wall shear stress in an arterial T-bifurcation model. Perktold K, et al. **J Biomed Eng** 1990 Jan;12(1):2-12

Computer model of an inhomogeneous human torso. Sui WQ, et al. **J Biomed Eng** 1990 Mar;12(2):124-8

Effect of interface conditions on the behaviour of a Freeman hip endoprosthesis. Yettram AL. **J Biomed Eng** 1989 Nov; 11(6):520-4

Dual energy radiography using X-ray films and intensifying screens. Zananiri FA, et al. **J Biomed Eng** 1990 May; 12(3):239-47

New methodology for computer-aided modelling of biomolecular structure and dynamics. 2. Local deformations and cycles. Abagyan RA, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):833-45

Monte Carlo simulation of myoglobin primary to helical structure. Anastasiou N, et al. **J Biomol Struct Dyn** 1985 Feb;2(5):871-8

Secondary structures of Tetrahymena thermophila rRNA IVS sequence involved in its self-splicing reactions: a new computer analysis. Benedetti G, et al. **J Biomol Struct Dyn** 1990 Jun;7(6):1269-77

New methodology for computer-aided modelling of biomolecular structure and dynamics. 1. Non-cyclic structures. Mazur AK, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):815-32

A hydrogen bonded chain in bacteriorhodopsin by computer modelling approach. Sankara-Ramakrishnan R, et al. **J Biomol Struct Dyn** 1989 Aug;7(1):187-205

X-ray studies on crystalline complexes involving amino acids and peptides. Part XX. Crystal structures of DL-arginine acetate monohydrate and DL-lysine acetate and a comparison with the corresponding L-amino acid complexes. Soman J, et al. **J Biomol Struct Dyn** 1989 Oct; 7(2):269-77

A computer modelling approach to study the mode of binding of L-lyxoflavin-5'-monophosphate to flavodoxin. Vinayaka CR, et al. **J Biomol Struct Dyn** 1987 Jun; 4(6):1095-103

Computer simulation of fluid resuscitation in trauma. First pragmatic validation in thermal injury. Arturson G, et al. **J Burn Care Rehabil** 1989 Jul-Aug;10(4):292-9

A model for astral stimulation of cytokinesis in animal cells. Devore JJ, et al. **J Cell Biol** 1989 Nov;109(5):2225-32

Simulation testing of mechanisms for inducing the formation of the contractile ring in cytokinesis. Harris AK, et al. **J Cell Biol** 1989 Nov;109(5):2215-23

Quantitative analysis of membrane and secretory protein processing and intracellular transport. Noe DA, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):449-59

Computer-assisted method development in chromatography. **J Chromatogr** 1989 Dec 27;485:1-675

DryLab computer simulation for high-performance liquid chromatographic method development. II. Gradient elution. Dolan JW, et al. **J Chromatogr** 1989 Dec 27; 485:91-112 (21 ref.)

Reversed-phase chromatographic method development for peptide separations using the computer simulation program ProDigest-LC. Mant CT, et al. **J Chromatogr** 1989 Dec 27;485:365–82

Modeling and control. Forbes AD. **J Clin Monit** 1990 Jul; 6(3):227–35

A simulation of neuromuscular function and heart rate during induction, maintenance, and reversal of neuromuscular blockade. Jaklitsch RR, et al. **J Clin Monit** 1990 Jan; 6(1):24–38 (79 ref.)

Engineering implications of closed-loop control during cardiac surgery. Sebald AV, et al. **J Clin Monit** 1990 Jul; 6(3):241–8

Computer-assisted three-dimensional reconstructions of [14C]-2-deoxy-D-glucose metabolism in cat lumbosacral spinal cord following cutaneous stimulation of the hindfoot. Crockett DP, et al. **J Comp Neurol** 1989 Oct 8; 288(2):326–38

Atomistic lattice simulation of high Tc oxides. Allan NL, et al. **J Comput Aided Mol Des** 1989 Dec;3(4):299–309 (34 ref.)

Computer simulation of liquid crystals. Allen MP, et al. **J Comput Aided Mol Des** 1989 Dec;3(4):335–53 (54 ref.)

Molecular dynamics simulations of halide glasses. Parker JM. **J Comput Aided Mol Des** 1989 Dec;3(4):327–34 (14 ref.)

Molecular dynamics simulation as a complement to diffraction in the study of disorder in crystals. Thomas JO, et al. **J Comput Aided Mol Des** 1989 Dec;3(4):311–25

Three-dimensional analysis of facial morphology before and after orthognathic surgery. Kobayashi T, et al. **J Craniomaxillofac Surg** 1990 Feb;18(2):68–73

Estimation of additive maternal and cytoplasmic genetic variances in animal models. Southwood OI, et al. **J Dairy Sci** 1989 Nov;72(11):3006–12

Plaque fluid and diffusion: study of the cariogenic challenge by computer modeling. Dibdin GH. **J Dent Res** 1990 Jun; 69(6):1324–31

Clinical application of electrocardiographic computer model. Harumi K, et al. **J Electrocardiol** 1989;22 Suppl:54–63

Computer simulation of supraventricular tachycardia with the Wolff-Parkinson-White syndrome using three-dimensional heart models. Wei DM, et al. **J Electrocardiol** 1990 Jul;23(3):261–73

Study of upper extremity growth and development using human embryos and computer-reconstructed models. Seyfer AE, et al. **J Hand Surg [Am]** 1989 Nov;14(6):927–32

Quantitative investigation of copper(II) and zinc(II) complexes with S-carboxymethyl-L-cysteine and computer-simulated appraisal of their potential significance in vivo. Brumas V, et al. **J Inorg Biochem** 1989 Dec; 37(4):309–23

Synthetic and computer-assisted analyses of the pharmacophore for the benzodiazepine receptor inverse agonist site. Allen MS, et al. **J Med Chem** 1990 Sep; 33(9):2343–57

Computer-aided molecular modeling of a thromboxane receptor antagonist S-145 and its related compounds. Ezumi K, et al. **J Med Chem** 1990 Apr;33(4):1117–22

Design of peptidomimetic delta opioid receptor antagonists using the message-address concept. Portoghese PS, et al. **J Med Chem** 1990 Jun;33(6):1714–20

A model for the antagonist binding site on the adenosine A1 receptor, based on steric, electrostatic, and hydrophobic properties. van Galen PJ, et al. **J Med Chem** 1990 Jun; 33(6):1708–13

Computer simulation of Rocky Mountain spotted fever transmission by the American dog tick (Acari: Ixodidae). Cooksey LM, et al. **J Med Entomol** 1990 Jul;27(4):671–80

Computer simulation of management strategies for American dog ticks (Acari: Ixodidae) and Rocky Mountain spotted fever. Haile DG, et al. **J Med Entomol** 1990 Jul; 27(4):686–96

Analysis of ion channels by modeling the osmotic effects of weak acids and bases. Hempling HG. **J Membr Biol** 1989 Sep;110(2):127–37

Nafarelin controlled release injectable: theoretical clinical plasma profiles from multiple dosing and from mixtures of microspheres containing 2 per cent, 4 per cent and 7 per cent nafarelin. Burns RA Jr, et al. **J Microencapsul** 1990 Jul–Sep;7(3):397–413

Morphogenesis of the brain as studied by 3-D computer graphics simulation. Fujita S. **J Microsc** 1990 Mar;157 (Pt 3):259–69

Calculation of conformational ensembles from potentials of mean force. An approach to the knowledge-based prediction of local structures in globular proteins. Sippl MJ. **J Mol Biol** 1990 Jun 20;213(4):859–83

Average values of a dissimilarity measure not requiring sequence alignment are twice the averages of conventional mismatch counts requiring sequence alignment for a computer-generated model system. Blaisdell BE. **J Mol Evol** 1989 Dec;29(6):538–47

Computer study of presynaptic inhibition controlling the spread of action potentials into axonal terminals. Segev I. **J Neurophysiol** 1990 May;63(5):987–98

Integration of distributed cortical systems by reentry: a computer simulation of interactive functionally segregated visual areas. Finkel LH, et al. **J Neurosci** 1989 Sep; 9(9):3188–208

Model-based quantification of myocardial perfusion images from SPECT. Nuyts J, et al. **J Nucl Med** 1989 Dec; 30(12):1992–2001

Calculations of the distribution of zinc in a computer model of human serum. Harris WR, et al. **J Nutr** 1989 Nov; 119(11):1677–82

An approach for time-dependent bone modeling and remodeling-application: a preliminary remodeling simulation. Beaupré GS, et al. **J Orthop Res** 1990 Sep; 8(5):662–70

Mathematically directed single-cut osteotomy for correction of tibial malunion. Sangeorzan BJ, et al. **J Orthop Trauma** 1989;3(4):267–75

Glomus bodies in the temporal bone. Rockley TJ, et al. **J Otolaryngol** 1990 Feb;19(1):50–6

Modeling intestinal absorption and other nutrition-related processes using PSPICE and STELLA. Mikulecky DC. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):7–20 (46 ref.)

Periodic haematological diseases: mystical entities or dynamical disorders? Milton JG, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):236–41 (48 ref.)

Probabilistic division systems modeling the generation of mosaic fields [published erratum appears in J Theor Biol 1990 Mar 22;143(2):285] Iannaccone PM, et al. **J Theor Biol** 1989 Dec 7;141(3):363–77

A model of dynamic behavior of a parasite species assemblage. Janovy J Jr, et al. **J Theor Biol** 1990 Feb 22; 142(4):517–29

Percolation thresholds in square-lattice Kauffman model. Stauffer D. **J Theor Biol** 1988 Nov 21;135(2):255–61

Computer simulation of the hydrostatic skeleton. The physical equivalent, mathematics and application to worm-like forms. Wadepuhl M, et al. **J Theor Biol** 1989 Feb 22;136(4):379–402

Structure characteristics of QMSOC and the relevant operators. Bao HF. **J Tongji Med Univ** 1989;9(4):235–8

The new functions of quantitatively medicine simulating and operating by computer (QMSOC). Bao HF. **J Tongji Med Univ** 1990;10(1):52–6

Effect of student loan indebtedness and repayment on resident physicians' cash flow. An analytic model. Hernried J, et al. **JAMA** 1990 Feb 23;263(8):1102–5

Reentrant arrhythmias generated by a computer-based model of the modulated parasystole in an open-chest dog. Hoshino K, et al. **Jpn Heart J** 1989 Nov;30(6):885–94

Ventricular aneurysms: a geometrical-dynamical model. Castagnino HE, et al. **Jpn J Exp Med** 1989 Jun;59(3):89–102

Influence of plaque configuration and stress distribution on fissuring of coronary atherosclerotic plaques [see comments] Richardson PD, et al. **Lancet** 1989 Oct 21; 2(8669):941–4 Comment in: Lancet 1989 Dec 16;2(8677):1462–3.

Computer-aided 3-D temporal bone anatomy for cochlear implant surgery. Takahashi H, et al. **Laryngoscope** 1990 Apr;100(4):417–21

A computergraphic investigation into the pharmacological role of the THC-cannabinoid phenolic moiety. Semus SF, et al. **Life Sci** 1990;46(24):1781–5

Simulation of the influence of magnetic field inhomogeneity and distortion correction in MR imaging. Weis J, et al. **Magn Reson Imaging** 1990;8(4):483–9

A computerized simulator for critical-care training: new technology for medical education. Saliterman SS. **Mayo Clin Proc** 1990 Jul;65(7):968–78

Maryland MIRRORS/II: a connectionist model simulator. D'Autrechy CL, et al. **MD Comput** 1990 Jan–Feb; 7(1):12–24, 58

Whole body heat balance during the human thoracic hyperthermia. Lou Z, et al. **Med Biol Eng Comput** 1990 Mar;28(2):171–81

Receiver operator characteristic (ROC) analysis without truth. Henkelman RM, et al. **Med Decis Making** 1990 Jan–Mar;10(1):24–9

Potential effectiveness of quality assurance screening using large but imperfect databases. Pine MB, et al. **Med Decis Making** 1990 Apr–Jun;10(2):126–34

A mathematical representation of the expert panel's guidelines for high blood cholesterol case-finding and treatment. Weissfeld JL, et al. **Med Decis Making** 1990 Apr–Jun;10(2):135–46

An evaluation of the effectiveness of a computer simulation of anaesthetic uptake and distribution as a teaching tool. Garfield JM, et al. **Med Educ** 1989 Sep;23(5):457–62

Neural networks in radiology: an introduction and evaluation in a signal detection task. Boone JM, et al. **Med Phys** 1990 Mar–Apr;17(2):234–41

Transillumination imaging performance: spatial resolution simulation studies. Hebden JC, et al. **Med Phys** 1990 Jan–Feb;17(1):41–7

Collimator scatter in modeling radiation beam profiles. Rosen II, et al. **Med Phys** 1990 May–Jun;17(3):422–8

EGS4 Monte Carlo determination of the beta dose kernel in water. Simpkin DJ, et al. **Med Phys** 1990 Mar–Apr; 17(2):179–86

Characterization of passive electrical properties of excitable cells using optimization methods. Bardakjian BL. **Med Prog Technol** 1990 May;16(1–2):11–7

A circulatory model for combined nitroprusside-dopamine therapy in acute heart failure. Yu C, et al. **Med Prog Technol** 1990 May;16(1–2):77–88

Computer-assisted learning in morbid anatomy. A stimulation of autopsy procedures and death certification. Cross SS, et al. **Med Sci Law** 1990 Apr;30(2):115–8

Computer-assisted resonance assignments. Billeter M. **Methods Enzymol** 1989;177:150–8

Computer modeling and display of RNA secondary and tertiary structures. Gautheret D, et al. **Methods Enzymol** 1990;183:318–30

Predicting optimal and suboptimal secondary structure for RNA. Jaeger JA, et al. **Methods Enzymol** 1990;183:281–306

Distance geometry. Kuntz ID, et al. **Methods Enzymol** 1989; 177:159–204

Generation of steady-state rate equations for enzyme and carrier-transport mechanisms: a microcomputer program. Runyan KR, et al. **Methods Enzymol** 1989;171:164–90

Computer prediction of RNA structure. Zuker M. **Methods Enzymol** 1989;180:262–88

Creation of realistic appearing simulated patient cases using the INTERNIST-1/QMR knowledge base and interrelationship properties of manifestations. Parker RC, et al. **Methods Inf Med** 1989 Nov;28(4):346–51

Modeling the benzodiazepine receptor binding site by the general three-dimensional structure-directed quantitative structure-activity relationship method REMOTEDISC. Ghose AK, et al. **Mol Pharmacol** 1990 May;37(5):725–34

Potential applications of computational fluid dynamics to biofluid analysis. Kwak D, et al. **Monogr Atheroscler** 1990; 15:261–72

Creative computing [news] **Nature** 1989 Oct 5; 341(6241):466–9

Modelling in peptide design [news] Jameson BA. **Nature** 1989 Oct 5;341(6241):465–6

Holography in artificial neural networks. Psaltis D, et al. **Nature** 1990 Jan 25;343(6256):325–30

Sensitivity in the World Dynamics Model. Salerno J. **Nature** 1973 Aug 24;244(5417):488–92

A new line in 'neurocomputers' [news] Webb B. **Nature** 1989 Oct 12;341(6242):478

A simulation approach for estimating the loss of womanyears due to cervical cancer and probability of developing cervical cancer. Sreenivas V, et al. **Neoplasma** 1989; 36(5):623–7

A two-dimensional, finite element analysis of vasogenic brain edema. Nagashima T, et al. **Neurol Med Chir (Tokyo)** 1990 Jan;30(1):1–9

Natural and surgically imposed anastomoses of the circle of Willis. Clark ME, et al. **Neurol Res** 1989 Dec;11(4):217–30

Effect of background activity of a net of excitatory neuron-like elements on conduction of excitation. Shuvgina GI, et al. **Neurosci Behav Physiol** 1989 Jul–Aug;19(4):301–9

Prediction of RNA secondary structure, including pseudoknotting, by computer simulation. Abrahams JP, et al. **Nucleic Acids Res** 1990 May 25;18(10):3035–44

A highly conserved RNA folding region coincident with the Rev response element of primate immunodeficiency viruses. Le SY, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1613–23

Modelling oblique astigmatism in eyes with known peripheral refraction and optical dimensions. Dunne MC, et al. **Ophthalmic Physiol Opt** 1990 Jan;10(1):46–8

Three-dimensional computer reconstruction of a temporal bone. Lutz C, et al. **Otolaryngol Head Neck Surg** 1989 Nov; 101(5):522–6

Computer-aided three-dimensional reconstruction and measurement of the round window and its membrane. Takahashi H, et al. **Otolaryngol Head Neck Surg** 1989 Nov; 101(5):517–21

Problems of the third dimension. Whimster WF. **Pathol Res Pract** 1989 Nov;185(5):594–7

Use of a computer simulation to evaluate a seminar on child abuse. Kost S, et al. **Pediatr Emerg Care** 1989 Sep; 5(3):202–3

Ultrasonic propagation in mammalian cell suspensions based on a shell model. Anson LW, et al. **Phys Med Biol** 1989 Sep;34(9):1153–67

Positron emission tomographic measurement of blood-to-brain and blood-to-tumour transport of 82Rb. I: Error analysis and computer simulations. Dhawan V, et al. **Phys Med Biol** 1989 Dec;34(12):1773–84

Probability modelling of a surgical probe for tumour detection. Hickernell TS, et al. **Phys Med Biol** 1990 Apr; 35(4):539–59

Monte Carlo simulation of extracellular diffusion in brain tissues. Lipinski HG. **Phys Med Biol** 1990 Mar;35(3):441–7

Use of Gaussian beam model in predicting SAR distributions from current sheet applicators. Lumori ML, et al. **Phys Med Biol** 1990 Mar;35(3):387–97

Monte Carlo calculations of scatter to primary ratios for normalisation of primary and scatter dose. Rice RK, et al. **Phys Med Biol** 1990 Mar;35(3):333–8

Simulation of steady cardiovascular flow in the presence of stenosis using a finite element method. Sud VK, et al. **Phys Med Biol** 1990 Jul;35(7):947–59

Optimisation of conformal radiotherapy dose distributions by simulated annealing [published erratum appears in Phys Med Biol 1990 Feb;35(2):297] Webb S. **Phys Med Biol** 1989 Oct;34(10):1349–70 (39 ref.)

Improved predictions of secondary structures for RNA. Jaeger JA, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(20):7706–10

Silicon modeling of pitch perception. Lazzaro J, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9597–601

A model of the single atrial cell: relation between calcium current and calcium release. Earm YE, et al. **Proc R Soc Lond [Biol]** 1990 May 22;240(1297):83–96

A model of quantitative traits under frequency-dependent balancing selection. Mani GS, et al.

Proc R Soc Lond [Biol] 1990 May 22;240(1297):15–28
Linkage analysis for a disease with a complex mode of inheritance in a simulated data set. Lehner T, et al. Prog Clin Biol Res 1989;329:141–6
Methods for detecting linkage using simulated data. Maestri NE, et al. Prog Clin Biol Res 1989;329:147–52
Gene mapping of a simulated complex disease. Newman B, et al. Prog Clin Biol Res 1989;329:171–6
Computer model of human erythrocyte metabolism. Palsson BO, et al. Prog Clin Biol Res 1989;319:133–50; discussion 151–4 (33 ref.)
Smooth muscle energetics: testing theories of crossbridge regulation. Paul RJ, et al. Prog Clin Biol Res 1990; 327:29–38
Linkage analysis with fixed prevalence: application to simulated data. Rice J, et al. Prog Clin Biol Res 1989; 329:165–70
Computer-assisted analysis of chromosomal locations and transcriptional directions of Escherichia coli genes. Watanabe H, et al. Protein Seq Data Anal 1990 Jun; 3(2):149–56
The building of protein structures from alpha-carbon coordinates. Correa PE. Proteins 1990;7(4):366–77
The effects of truncating long-range forces on protein dynamics. Loncharich RJ, et al. Proteins 1989;6(1):32–45
Evaluation of homology modeling of HIV protease. Weber IT. Proteins 1990;7(2):172–84
How are dreams made? Towards a computational model. Baylor GW, et al. Psychiatr J Univ Ott 1989 Nov; 14(4):566–71
Cortical pruning and the development of schizophrenia: a computer model. Hoffman RE, et al. Schizophr Bull 1989; 15(3):477–90
A cellular automation model of excitable media including curvature and dispersion. Gerhardt M, et al. Science 1990 Mar 30;247(4950):1563–6
A two-dimensional analog VLSI circuit for detecting discontinuities in early vision. Harris JG, et al. Science 1990 Jun 8;248(4960):1209–11
A comparison of radiographic and computer-assisted measurements of thoracic and thoracolumbar sagittal curvature. Singer KP, et al. Skeletal Radiol 1990;19(1):21–6
Bootstrapped confidence intervals for the Cox model using a linear relative risk form. Barlow WE, et al. Stat Med 1989 Aug;8(8):927–35
Exponential survival trees. Davis RB, et al. Stat Med 1989 Aug;8(8):947–61
Group sequential procedures: calendar versus information time. Demets DL. Stat Med 1989 Oct;8(10):1191–8
A note on confidence limits for quartiles with right censored data. Elashoff RM, et al. Stat Med 1989 Oct;8(10):1269–76
Adjusting for baseline: change or percentage change? Kaiser L. Stat Med 1989 Oct;8(10):1183–90
Long-term response to artificial selection with multiple alleles—study by simulations. Zeng ZB, et al. Theor Popul Biol 1990 Feb;37(1):254–72
Improving toxicology testing protocols using computer simulations. Clewell HJ 3d, et al. Toxicol Lett 1989 Dec; 49(2–3):139–58 (50 ref.)
From comparisons of protein sequences and structures to protein modelling and design. Sali A, et al. Trends Biochem Sci 1990 Jun;15(6):235–40 (30 ref.)
Simulated livestock dynamics—effects of pastoral offtake practices and drift on cattle wealth. Baptist R. Trop Anim Health Prod 1990 May;22(2):67–76
Effects of physical parameters on high temperature ultrasound hyperthermia. Billard BE, et al. Ultrasound Med Biol 1990;16(4):409–20
Tissue response to mechanical vibrations for "sonoelasticity imaging". Parker KJ, et al. Ultrasound Med Biol 1990; 16(3):241–6
Effect of selective tissue attenuation of pulsed Doppler frequency. Powis RL. Ultrasound Med Biol 1990; 16(3):317–20
Correction of refraction and other angle errors in beam tracking speed of sound estimations using multiple tracking transducers. Shattuck DP, et al. Ultrasound Med Biol 1989; 15(7):673–81
Reserve capacity of the elderly in aging sensitive tests of fluid intelligence: a reanalysis via a structural equation modelling approach. Rsykov T. Z Psychol 1989; 197(3):263–82
[Design and application of a computer program for comprehensive segregation analysis] Hu Y, et al. I Chuan Hsueh Pao 1989;16(3):244–50 (Eng. Abstr.) (Chi)
[Effects of longterm selection on the genetic structure of populations—a simulation study. I. Simulation models and selection responses] Wu ZX, et al. I Chuan Hsueh Pao 1989; 16(3):197–205 (Eng. Abstr.) (Chi)
[Analysis of dynamic changes in glycosylated blood proteins using a computer model] Svačina S, et al. Cas Lek Cesk 1990 Feb 16;129(7):204–7 (Eng. Abstr.) (Cze)
[Testing student knowledge of emergency care at the Charles University School of General Medicine and the processing of certain conditions in primary emergency care into computerized educational training models] Souček P, et al. Cesk Zdrav 1990 Jan;38(1):24–9 (Eng. Abstr.) (Cze)
[Experiences with computer simulation of (ENT) patients (published erratum appears in Ned Tijdschr Geneeskd 1990 May 12;134(19):984)] van Rijn AJ, et al. Ned Tijdschr Geneeskd 1990 Apr 14;134(15):772–5 (Dut)
[An attempt to quantify myocardial ischemia by selective coronary arteriography: determination of a new score. An initial study] Amiel M, et al. Arch Mal Coeur 1990 Jan; 83(1):69–75 (Eng. Abstr.) (Fre)
[Modelling of the displacement of the occlusal plane in multi-bracket therapy] Faure J, et al. Orthod Fr 1988;59 Pt 2:539–46 (Eng. Abstr.) (Fre)
[A simulation method for studying scintillation camera collimators] Gantet P, et al. Phys Med Biol 1990 May; 35(5):659–69 (Eng. Abstr.) (Fre)
[Computer-assisted coronary dilatation and model presentations] Albrecht J, et al. Biomed Tech (Berlin) 1989; 34 Suppl:75–6 (Ger)
[Digital image processing in medicine. Texture analysis and 3D reconstruction] Ameling W. Biomed Tech (Berlin) 1989; 34 Suppl:1–7 (Ger)
[Classification and texture attributed 3D reconstruction of breast tumors from ultrasound image sequences] Grotepass J, et al. Biomed Tech (Berlin) 1989;34 Suppl:138–9 (Ger)
[Use of evolution strategy as a control algorithm in functional electrostimulation] Helgason T, et al. Biomed Tech (Berlin) 1989;34 Suppl:159–60 (Ger)
[Roentgen pseudo-projections of a parametric model of the left ventricular myocardium] Lindenau JH, et al. Biomed Tech (Berlin) 1989;34 Suppl:257–8 (Ger)
[Simulation of signals of the ultrasound color Doppler effect in flow through artificial heart valves] Malaviya A, et al. Biomed Tech (Berlin) 1989;34 Suppl:115–6 (Ger)
[The biomechanics of the human locomotor system] Möller DP. Biomed Tech (Berlin) 1989;34 Suppl:155–6 (Ger)
[Use of an interactive cardiovascular model in the development of a knowledge-based system in anesthesiology] Popp HJ, et al. Biomed Tech (Berlin) 1989; 34 Suppl:261–2 (Ger)
[Simulation of cardiac arrhythmias using a microcomputer] Richter P. Biomed Tech (Berlin) 1989;34 Suppl:263–4 (Ger)
[Development of a system for model-based decision support for determining the bicarbonate concentration needed for acute dialysis] Thews O, et al. Biomed Tech (Berlin) 1989; 34 Suppl:89–90 (Ger)
[Model studies of the development of arterial hypoxia in various forms of hemodialysis] Thews O, et al. Biomed Tech (Berlin) 1989;34 Suppl:91–2 (Ger)
[Design of partial pelvic replacement with calculation of stresses on the pelvic bone using the finite element method] Wittler G, et al. Biomed Tech (Berlin) 1989 Dec; 34(12):301–7 (Eng. Abstr.) (Ger)
[Transesophageal echo computer tomography (ECHO-CT): a new method of dynamic 3-D reconstruction of the heart] Wollschläger H, et al. Biomed Tech (Berlin) 1989;34 Suppl:10–1 (Ger)
[3-dimensional reconstructions of the skull, axial and extremity skeleton] Langer M, et al. Digitale Bilddiagn 1989 Sep;9(3):89–96 (Eng. Abstr.) (Ger)
[Heat diffusion of the temporal bone and caloric nystagmus] Lothaller R, et al. HNO 1989 Aug;37(8):320–2 (Eng. Abstr.) (Ger)
[Distortion of progressive addition lenses and its physiologic evaluation] Wehmeyer K, et al. Klin Monatsbl Augenheilkd 1989 Jul;195(1):44–7 (Eng. Abstr.) (Ger)
[A new method of 3-dimensional reconstruction of the head and neck] Grevers G, et al. Laryngorhinootologie 1990 Apr; 69(4):187–90 (Eng. Abstr.) (Ger)
[Current problems of topometric irradiation planning] Merkle K. Radiobiol Radiother (Berl) 1990;31(2):165–71 (Eng. Abstr.) (Ger)
[An in vitro test procedure for evaluating dental restoration systems. 1. A computer-controlled mastication simulator] Krejci I, et al. Schweiz Monatsschr Zahnmed 1990; 100(8):953–60 (Eng. Abstr.) (Ger)
[Possibilities of 3-dimensional ultrasound imaging] Sohn C, et al. Ultraschall Med 1989 Dec;10(6):307–13 (Eng. Abstr.) (Ger)
[On-line evaluation of the radioimmunoassay using the microcomputer KC 85/2] Blobel J. Z Med Lab Diagn 1989; 30(7):399–402 (Ger)
[Stability analysis of various forms of fusion of the lumbar vertebrae using a computer simulation model] Nitzschke E, et al. Z Orthop 1989 Sep–Oct;127(5):597–601 (Eng. Abstr.) (Ger)
[Computerized determination of pharmacokinetic constants in a biocompartmental model aimed at the optimal clinical use of drugs] Zatelli R, et al. Boll Soc Ital Biol Sper 1989 Jun;65(6):529–34 (Eng. Abstr.) (Ita)
[Estimation of the long-term risks of death from smoking—application to public health education] Nakamura M, et al. Gan No Rinsho 1990 Feb;Spec No:319–28 (Eng. Abstr.) (Jpn)
[Bone drilling simulation by three-dimensional imaging] Suto Y, et al. Iyodenshi To Seitai Kogaku 1989 Jun;27(2):61–9 (Eng. Abstr.) (Jpn)
[Let's study exponential function related to anesthesiology by using computer graphics—Part I: Wash-out exponential function] Ueda W. Masui 1989 Jul;38(7):927–31 (Eng. Abstr.) (Jpn)
[Analysis of the retinal blood flow by means of the blue field entoptic phenomenon and simulation of entoptic leucocytes with a personal-computer system] Nakahashi K, et al. Nippon Ganka Gakkai Zasshi 1989 May;93(5):533–9 (Eng. Abstr.) (Jpn)
[Simulation of cardiovascular control system and models of hypertension] Iriuchijima J. Nippon Rinsho 1989 Sep; 47(9):1901–6 (Jpn)
[Basic study on criteria for the reactivity of non-stress tests by means of computer simulation] Kubo T, et al. Nippon Sanka Fujinka Gakkai Zasshi 1990 Jun;42(6):593–8 (Eng. Abstr.) (Jpn)
[A physiologically based pharmacokinetic model to describe the transfer of organic solvents in the human body. Simulation of kinetic behavior of trichloroethylene using a spreadsheet program] Endoh K, et al. Sangyo Igaku 1989 Sep;31(5):335–41 (Eng. Abstr.) (Jpn)
[The relationship between external and internal doses of trichloroethylene. A simulation study using a physiological pharmacokinetic model] Kaneko T, et al. Sangyo Igaku 1989 Sep;31(5):342–7 (Eng. Abstr.) (Jpn)
[Individual differences in the kinetic behavior of trichloroethylene. A simulation study using a physiological pharmacokinetic model] Sato A, et al. Sangyo Igaku 1989 Sep;31(5):348–54 (Eng. Abstr.) (Jpn)
[Creating models of the development of a computer-assisted system of cardiovascular services] Baran-Jarosz B, et al. Kardiol Pol 1989;32 Suppl 2:71–82 (14 ref.) (Eng. Abstr.) (Pol)
[Gene geography of human population: computer-generated regional genogeographic atlas] Balanovskaia EV, et al. Genetika 1990 May;26(5):925–35 (Eng. Abstr.) (Rus)
[Genogeography of human populations: computer mapping of population genetics data] Rychkov IuG, et al. Genetika 1990 Feb;26(2):332–40 (Eng. Abstr.) (Rus)
[Biometric modeling in the optimization of the treatment of patients with gastric cancer] Kshivets OM, et al. Klin Khir 1990;(5):9–10 (Eng. Abstr.) (Rus)
[Predicting the effect on man of linear and angular impact accelerations] Mazurin IuV, et al. Kosm Biol Aviakosm Med 1989 Aug–Sep;23(4):79–83 (Rus)
[A comparison of statistical methods for quantal analysis in computer and physiological experiments] Voronin LL, et al. Neirofiziologiia 1990;22(2):206–15 (Eng. Abstr.) (Rus)
[Methodologic provisions for developing models of individual prognoses of pregnancy outcome] Abdulkerimov SA, et al. Vestn Akad Med Nauk SSSR 1990;(5):15–7 (Eng. Abstr.) (Rus)
[Computer model for prognosis of incidence of aseptic meningitis] Spynu KI, et al. Vopr Virusol 1989 Nov–Dec; 34(6):704–10 (Eng. Abstr.) (Rus)
[Stochastic simulation of the instrumental reflex in probability learning] Saltykov AB, et al. Zh Vyssh Nerv Deiat 1989 Sep–Oct;39(5):974–8 (Eng. Abstr.) (Rus)
[A new proposal on the neural component of the control system of renal blood flow. Analysis using digital simulation] Roa LM, et al. Rev Esp Fisiol 1989 Sep; 45(3):221–6 (Eng. Abstr.) (Spa)

TRENDS

Computer modelling: future directions. Stoneham AM. J Comput Aided Mol Des 1989 Dec;3(4):355–61

COMPUTER SOFTWARE see **SOFTWARE**

COMPUTER SYSTEM EVALUATION see **COMPUTER SYSTEMS**

COMPUTER SYSTEMS

First year's experience of the MAClinical Computer Workstations Project. Stair TO, et al. Acad Med 1990 Jan; 65(1):20–2
Facial skin complaints and work at visual display units. A histopathological study. Berg M, et al. Acta Derm Venereol (Stockh) 1990;70(3):216–20
Facial skin complaints and work at visual display units. Epidemiological, clinical and histopathological studies. Berg M. Acta Derm Venereol Suppl (Stockh) 1989;150:1–40
Real-time signal processing in speech recognition and its potential use within the development of hearing aids. Dalsgaard P, et al. Acta Otolaryngol Suppl (Stockh) 1990; 469:108–16
A digital system for the generation of acoustic stimuli and the analysis of cellular vibration data. Lund DT, et al. Acta Otolaryngol Suppl (Stockh) 1989;467:77–89
Radiologic image communication methods. Huang HK, et al. AJR Am J Roentgenol 1990 Jul;155(1):183–6 (5 ref.)
Interactive video for bilingual ASL/English instruction of deaf children. Hanson VL, et al. Am Ann Deaf 1989 Jul; 134(3):209–13
Knowledge-based computer systems for radiotherapy planning. Kalet IJ, et al. Am J Clin Oncol 1990 Aug; 13(4):344–51 (31 ref.)
Benefits of an integrated hospital information system [letter] Clutcher BB, et al. Am J Hosp Pharm 1990 Apr; 47(4):779–80
Microcomputer-assisted monitoring of medication-dispensing errors. Hayman JN. Am J Hosp Pharm 1989 Sep;46(9):1806–9
Influencing prescribing behavior by adapting computerized order-entry pathways. Kawahara NE, et al. Am J Hosp Pharm 1989 Sep;46(9):1798–801
Computerized ambulatory-care pharmacy information system for direct order entry by prescribers. Serpa MD,

et al. **Am J Hosp Pharm** 1990 Feb;47(2):361–3
Improving access to computer-based library and drug information services in patient-care areas. Tobia RC, et al. **Am J Hosp Pharm** 1990 Jan;47(1):137–42
Monitoring the safety of childhood immunizations: methods of linking and augmenting computerized data bases for epidemiologic studies. Griffin MR, et al.
Am J Prev Med 1988;4(2 Suppl):5–13
Validation of an automatic crackle (rale) counter. Murphy RL Jr, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1017–20
Construction of the diagnostic encyclopedia workstation. Computerizing pathology for the pathologist. Jansen W, et al. **Anal Quant Cytol Histol** 1989 Dec;11(6):447–50
A bulletin board service for residents [letter] Kaplan J, et al. **Ann Intern Med** 1990 Jan 15;112(2):151
Choosing the right system; communicating between mainframe and personal computers; performing backups. Schmaus DC. **AORN J** 1990 Jan;51(1):236–7, 239
Imaging techniques: state and future. Rockstroh G.
Arch Geschwulstforsch 1990;60(4):323–8 (19 ref.)
Integrating information systems in hospitals. Bringing the outside inside. Friedman BA, et al.
Arch Pathol Lab Med 1990 Jan;114(1):13–6
Risk identification by register epidemiology—a Swedish experience. Malker H. **Arh Hig Rada Toksikol** 1988 Dec; 39(4):477–87
Patient recall. North J. **Aust Fam Physician** 1989 Oct; 18(10):1272, 1276–8
Automating the flight surgeon's report, simplifying the investigative-reportage task, and enhancing the data quality and depth: a concept. Guill FD.
Aviat Space Environ Med 1989 Oct;60(10 Pt 2):B89–105
Computer search for ballistocardiographic indices of cardiovascular disease. Tolles WE. **Bibl Cardiol** 1967; (19):126–35
Telematics: a new tool for epidemiological surveillance of diarrhoeal diseases in the Aquitaine sentinel network. Maurice S, et al. **BMJ** 1990 Feb 24;300(6723):514–6
The Macintosh in dentistry [letter] Page J. **Br Dent J** 1990 Jan 20;168(2):51
GPASS [letter] Irving JM, et al. **Br J Gen Pract** 1990 May; 40(334):218
Computers in radiology departments. Sutherland GR.
Br J Radiol 1990 Feb;63(746):89–96 (25 ref.)
Adapting IAIMS to a hospital library level. Klein MS.
Bull Med Libr Assoc 1989 Oct;77(4):357–65
Further explanations about potential of EDI system [interview by Ralph Crawford] Dolansky B.
Can Dent Assoc J 1989 Dec;55(12):939–42
A computer controlled infusion of propofol for induction and maintenance of anaesthesia in children. Marsh BJ, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S97
VDTs and health: many studies, few answers. Lowry F.
Can Med Assoc J 1989 Nov 1;141(9):974–7
Optimal display of the coronary arterial tree with an upscan 1,023-line video display system. Holmes DR Jr, et al.
Cathet Cardiovasc Diagn 1989 Nov;18(3):175–80
Real time processing and analysis of fetal phonocardiographic signals. Bassil HE, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:67–74
Description of a real-time system to extract the fetal electrocardiogram. Callaerts D, et al.
Clin Phys Physiol Meas 1989;10 Suppl B:7–10
Automated performance checking of infusion equipment. Tam YC. **Clin Phys Physiol Meas** 1989 Nov;10(4):311–8
Computer linked apparatus for upper limb therapy: a new system of resistive exercise. Ward EG, et al.
Clin Phys Physiol Meas 1989 Nov;10(4):343–52
Programs for radioimmunoassays and radioreceptorassays using SPSS-X. Amador AG, et al. **Comput Biol Med** 1989; 19(5):343–51
Real time analysis of Valsalva's maneuver. Bingger W, et al. **Comput Biol Med** 1989;19(5):319–29
CARDIO—a Lotus 1-2-3 based computer program for rapid calculation of cardiac output from dye or thermal dilution curves. Brill RW, et al. **Comput Biol Med** 1989;19(5):361–6
TRACK: a FORTRAN program for calculating the Foulkes-Davis tracking index. Dallal GE.
Comput Biol Med 1989;19(5):367–71
Determination of functional aerobic capacity using the microcomputer. Francis K. **Comput Biol Med** 1989; 19(5):331–5
The use of the ventilatory anaerobic threshold for the development of exercise guidelines. Francis K.
Comput Biol Med 1989;19(5):307–17 (25 ref.)
A SAS program for evaluating person-years of risk in cohort studies. Yaari S, et al. **Comput Biol Med** 1989;19(5):353–9
Supercomputers and biological sequence comparison algorithms. Core NG, et al. **Comput Biomed Res** 1989 Dec; 22(6):497–515
Community health behavior change through computer network health promotion: preliminary findings from Stanford Health-Net. Robinson TN.
Comput Methods Programs Biomed 1989 Oct-Nov; 30(2-3):137–44
The implementation of the first graduate program in nursing informatics. Heller BR, et al. **Comput Nurs** 1989 Sep-Oct; 7(5):209–13
Automated continuing education and patient education. Masten Y, et al. **Comput Nurs** 1990 Jul-Aug;8(4):144–50
Criteria for the selection of a bedside information system for acute care units. Paganelli BE. **Comput Nurs** 1989 Sep-Oct;7(5):214–21
A process for introducing computerized information systems into long-term care facilities. Pulliam L, et al.
Comput Nurs 1989 Nov-Dec;7(6):251–7
Guidelines for reporting innovations in computer-based information systems for nursing. Zielstorff RD, et al.
Comput Nurs 1989 Sep-Oct;7(5):203–8
Evaluation of a questionnaire for facial skin complaints related to work at visual display units. Berg M, et al.
Contact Dermatitis 1990 Feb;22(2):71–7
Applications platforms: choosing the right one. Ingham B.
Dimens Health Serv 1990 Apr;67(3):15–7
IBM and York Central: evolution of a partnership. Ruth A.
Dimens Health Serv 1990 Apr;67(3):20–1
Puptrak 1.0—a new semiautomated system for pupillometry with the Octopus perimeter: a preliminary report. Fankhauser F 2d, et al. **Doc Ophthalmol** 1989 Nov; 73(3):235–48
Synergistic induction of polypeptides by tumor necrosis factor and interferon-gamma in cells sensitive or resistant to tumor necrosis factor: assessment by computer based analysis of two-dimensional gels using the PDQUEST system. Beresini MH, et al. **Electrophoresis** 1990 Mar; 11(3):232–41
Assessing the impact of computer workload on operator stress: the role of system controllability. Hockey GR, et al. **Ergonomics** 1989 Nov;32(11):1401–18 (76 ref.)
The effects of VDT work on the regulation of hemodynamics compared with aging. Tanaka T, et al. **Ergonomics** 1989 Dec;32(12):1595–605
How display polarity and lighting conditions affect the pupil size of VDT operators. Taptagaporn S, et al.
Ergonomics 1990 Feb;33(2):201–8
Cardiovascular malformations and maternal exposure to video display terminals during pregnancy. Tikkanen J, et al. **Eur J Epidemiol** 1990 Mar;6(1):61–6
ImNet: a fibre optic LAN for digital image communication. Meyer-Ebrecht D, et al. **Eur J Radiol** 1990 May-Jun; 10(3):230–3
Analysis of r and s disorders in Finnish by using a laboratory computer. Räsänen T, et al. **Folia Phoniatr (Basel)** 1990; 42(3):135–43
Standardized assessment as a means rather than an end [editorial] Kane RL. **Gerontologist** 1990 Jun;30(3):291–2
A system for general practice computing in Scotland. Ryan MP. **Health Bull (Edinb)** 1989 May;47(3):110–9
A resource facility for kinetic analysis: modeling using the SAAM computer programs. Foster DM, et al.
Health Phys 1989;57 Suppl 1:457–66
Monitoring patient outcome following discharge: a computerized geriatric case-management system.
Wimberley ET, et al. **Health Soc Work** 1989 Nov; 14(4):269–76
Fatigue caused by visual display terminal work: an experimental investigation. Tanaka J.
Hiroshima J Med Sci 1989 Jun;38(2):69–74
Visual performance on CRT screens and hard-copy displays. Harpster JL, et al. **Hum Factors** 1989 Jun;31(3):247–57
Neural, optical, and search performance in prolonged viewing of chromatic displays. Lovasik JV, et al.
Hum Factors 1989 Jun;31(3):273–89
Visual performance and subjective discomfort in prolonged viewing of chromatic displays. Matthews ML, et al.
Hum Factors 1989 Jun;31(3):259–71
Use of computers in pediatrics: basic aspects. Raju TN.
Indian J Pediatr 1989 Sep-Oct;56(5):613–23
Ensuring quality in a computerized database system: a perinatal network. Rosenberg D, et al. **Indian J Pediatr** 1990 Jan-Feb;57(1):63–71
Stress-related changes of saliva cortisol in VDU operators. Schreinicke G, et al. **Int Arch Occup Environ Health** 1990; 62(4):319–21
Criteria for the design of fetal heart rate analysis systems. Dawes GS, et al. **Int J Biomed Comput** 1990 May; 25(4):287–94
A 2-year assessment of a microcomputer based local-area network system for managing perinatal medical information. Koyanagi T, et al. **Int J Biomed Comput** 1989 Dec;24(4):257–68
Effective staff communications in a large I.C.U. Booth FV.
Int J Clin Monit Comput 1989 Apr;6(2):81–6
Medical information bus: the key to future integrated monitoring [comment] Gardner RM, et al.
Int J Clin Monit Comput 1989 Dec;6(4):205–9 Comment on: Int J Clin Monit Comput 1989 Dec;6(4):197–204.
Integrated computerized databases for medical data management beyond the bedside. Leyerle BJ, et al.
Int J Clin Monit Comput 1990 Apr;7(2):83–9
Application of automated human voice delivery to warning devices in an intensive care unit: a laboratory study. McIntyre JW, et al. **Int J Clin Monit Comput** 1989 Dec; 6(4):255–62
Standardized acquisition of bedside data: the IEEE P1073 medical information bus [see comments] Shabot MM.
Int J Clin Monit Comput 1989 Dec;6(4):197–204 Comment in: Int J Clin Monit Comput 1989 Dec;6(4):205–9.
A computer network-based system for local storage and nationwide processing of autopsy diagnoses. Matturri L, et al. **Int J Epidemiol** 1989 Sep;18(3):720–2
CT simulator: a new 3-D planning and simulating system for radiotherapy: Part 2. Clinical application [see comments] Nagata Y, et al.
Int J Radiat Oncol Biol Phys 1990 Mar;18(3):505–13 Comment in: Int J Radiat Oncol Biol Phys 1990 Mar;18(3):701–3.
CT simulator: a new 3-D planning and simulating system for radiotherapy: Part 1. Description of system [see comments] Nishidai T, et al.
Int J Radiat Oncol Biol Phys 1990 Mar;18(3):499–504 Comment in: Int J Radiat Oncol Biol Phys 1990 Mar;18(3):701–3.
A European and global strategy for a nursing information network. Farrell M, et al. **Int Nurs Rev** 1990 May-Jun; 37(3):271–3, 279
Computerized volume measurement of brain structure. Ashtari M, et al. **Invest Radiol** 1990 Jul;25(7):798–805
Structured approach in PLC (programmable logic controller) programming for water/wastewater applications. Keskar PY. **ISA Trans** 1990;29(2):47–56
Facial skin complaints and work at visual display units. An epidemiologic study of office employees. Berg M, et al.
J Am Acad Dermatol 1990 Apr;22(4):621–5
CAD-CAM ceramic inlays and onlays: a case report after 3 years in place. Mormann WH, et al.
J Am Dent Assoc 1990 May;120(5):517–20
Development of an evaluation model for computer foodservice management systems. Bender JR, et al.
J Am Diet Assoc 1989 Oct;89(10):1465–72
A computerized system that uses high-frequency data for analysis of myocardial contrast echocardiograms. de Jong N, et al. **J Am Soc Echocardiogr** 1990 Mar-Apr;3(2):99–105
Development of a robot arm and workstation for the disabled. Hillman MR, et al. **J Biomed Eng** 1990 May;12(3):199–204
Computer system for equipment management. Whelpton D, et al. **J Biomed Eng** 1990 May;12(3):248–52
Automatic anesthesia record keeping. Block FE Jr.
J Clin Monit 1989 Oct;5(4):284–6
The present and future medicolegal importance of record keeping in anesthesia and intensive care: the case for automation. Gibbs RF. **J Clin Monit** 1989 Oct;5(4):251–5
Automating the recording and improving the presentation of the anesthesia record. Ream AK. **J Clin Monit** 1989 Oct;5(4):270–83
A cardiac potential mapping system. Thomas CW, et al.
J Electrocardiol 1989;22 Suppl:64–71
Microcomputer-assisted transmission of disaster data by cellular telephone. Wigder HN, et al. **J Emerg Med** 1989 Nov-Dec;7(6):651–5
Epidemiological surveillance of suicides and attempted suicides in Aquitaine, south-west France, using an original computer network of sentinel general practitioners. Maurice S, et al. **J Epidemiol Community Health** 1989 Sep; 43(3):290–2
Addressing the issue of cataloging and making accessible chiropractic literature: Part II. Pilot software development program. Curl DD, et al. **J Manipulative Physiol Ther** 1990 Jul-Aug;13(6):309–15
On the development of an integrated computer system for cephalometric analyses. Bidanda B, et al. **J Med Syst** 1990 Apr;14(1-2):1–16
The benefits and perils of system integration. Duke JR, et al. **J Med Syst** 1990 Apr;14(1-2):43–8
Defining the application portfolio for an integrated hospital information system: a tutorial. Zviran M. **J Med Syst** 1990 Apr;14(1-2):31–41
Work with visual display terminals: psychosocial aspects and health. Report on a World Health Organization meeting.
J Occup Med 1989 Dec;31(12):957–68 (101 ref.)
Realization of general nondiffracting beams with computer-generated holograms. Vasara A, et al.
J Opt Soc Am [A] 1989 Nov;6(11):1748–54
Design and testing of artifact-suppressed adaptive histogram equalization: a contrast-enhancement technique for display of digital chest radiographs. Rehm K, et al.
J Thorac Imaging 1990 Jan;5(1):85–91
Composed dynamic topography for spike and sharp wave. Kowada M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):369–72
Selling patients' data [letter; comment] **Lancet** 1989 Dec 2; 2(8675):1340 Comment on: Lancet 1989 Nov 4;2(8671):1078.
Should you buy an office computer? Cushing M Jr.
MD Comput 1990 May-Jun;7(3):161–4
Distributed computer system for capture, analysis and display of biological data. Marlow SP, et al.
Med Biol Eng Comput 1989 Jul;27(4):371–8
Microprocessor-controlled vector scan display system for generation of real-time visual stimuli. Schuling FH, et al.
Med Biol Eng Comput 1989 May;27(3):246–53
Medical imaging workstation: a software environment. Hofland PL, et al. **Med Inf (Lond)** 1990 Jan-Mar;15(1):15–9
Telematics and sentinel health information system with general practitioners in Aquitaine, southwest France. Maurice S, et al. **Med Inf (Lond)** 1989 Oct-Dec;14(4):281–6
Testing of a medical linear accelerator's computer-control system. Weinhous MS, et al. **Med Phys** 1990 Jan-Feb; 17(1):95–102
Clinical application of closed-loop postoperative autotransfusion. Blankenship HB, et al.
Med Prog Technol 1990 May;16(1-2):89–93
Image management and communication systems: a new challenge in radiology. Levine B, et al.
Med Prog Technol 1989;15(3-4):199–216
Twelve tips for designing instructional text using desktop

publishing. Laidlaw JM. **Med Teach** 1989;11(2):139–43
The integration of computer conferencing into the medical school curriculum. Ten Haken JD, et al. **Med Teach** 1989; 11(2):213–20
SatelLife. Partnerships in global communication for health. Clements C. **Med War** 1990 Jan–Mar;6(1):37–8
Data-screening and retrieval of medical data by the system WAREL. Dorda WG. **Methods Inf Med** 1990 Jan; 29(1):3–11
Clinical trial of remote radiologist services for a military installation. Mendel J, et al. **Milit Med** 1990 Feb; 155(2):52–4
Surveillance of influenza-like diseases through a national computer network—France, 1984–1989. **MMWR** 1989 Dec 15;38(49):855–7
Laser-printer rhinitis [letter] Skoner DP, et al. **N Engl J Med** 1990 May 3;322(18):1323
Down-to-earth medical education. Goodstein RK. **N J Med** 1989 Sep;86(9):709–11
The computer connection. Marcus S. **N J Med** 1989 Sep; 86(9):713–4
Computer viruses: hacker trial under way [news] Anderson GC. **Nature** 1990 Jan 18;343(6255):200
Are video terminals dangerous? [news] Shulman S. **Nature** 1989 Oct 5;341(6241):374
A standard protocol for the exchange of nuclear medicine image files [see comments] Cradduck TD, et al. **Nucl Med Commun** 1989 Oct;10(10):703–13 Comment in: Nucl Med Commun 1990 Apr;11(4):332–3.
Drug wars and drugstores. Athy D. **Ohio Med** 1989 Oct; 85(10):803–4
Homo quintadus, computers and ROOMS (repetitive ocular orthopedic motion stress). Grant AH. **Optom Vis Sci** 1990 Apr;67(4):297–305 (36 ref.)
An automatic microcomputer system for analysis of monophasic action potentials. Kanaan N, et al. **PACE** 1990 Feb;13(2):196–206
Use of a touch sensitive screen and computer assisted image analysis for quantitation of developmental changes in pulmonary structure. Deoras KS, et al. **Pediatr Pulmonol** 1990;9(2):109–18
Development of an automated human sperm quality system. Chan MK, et al. **Phys Med Biol** 1990 Mar;35(3):413–22
Visual display units. Mackay C. **Practitioner** 1989 Nov 8; 233(1478):1496–8
Effects of physical environment and technological stressors among stock brokers: a preliminary investigation. Burke RJ. **Psychol Rep** 1990 Jun;66(3 Pt 1):951–9
Developing a radiology computer system. Marsh AJ. **Radiogr Today** 1989 Mar;55(622):20–2
Computed radiography: photostimulable phosphor image plate technology. Long BW. **Radiol Technol** 1989 Nov–Dec;61(2):107–11
The digital imaging workstation. Arenson RL, et al. **Radiology** 1990 Aug;176(2):303–15
Teleradiology: an assessment. Batnitzky S, et al. **Radiology** 1990 Oct;177(1):11–7 (75 ref.)
Visual display terminals and pregnancy outcome—a review of epidemiological studies. McDonald A. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):143–7 (12 ref.)
Getting together bit by bit [news] Palca J. **Science** 1990 Apr 13;248(4952):160–2
Learning to drink from a fire hose [news] Waldrop MM. **Science** 1990 May 11;248(4956):674–5
Hospital-wide distribution of nuclear medicine studies through a broadband digital network. Miller TR, et al. **Semin Nucl Med** 1990 Jul;20(3):270–5
Influenza-like diseases. Surveillance of influenza-like diseases through a national computer network, 1984–1989. **Wkly Epidemiol Rec** 1990 Apr 6;65(14):103–4 **(Eng, Fre)**
[Computerized study of the functional results of a 2nd toe transfer in finger mutilation] Foucher G. **Chirurgie** 1989; 115(8):572–6 (Eng. Abstr.) **(Fre)**
[The use of automated technics and computers in orthodontics] Reed EW, et al. **Orthod Fr** 1986;57 Pt 2:651–5 (Eng. Abstr.) **(Fre)**
[The use of computers in the Urgent Medical Aid Unit—preparation and planning] Schumacher M, et al. **Anaesthesiol Reanim** 1990;15(1):19–24 (Eng. Abstr.) **(Ger)**
[Analysis of data management in anesthesia from an ergonomic viewpoint (see comments)] Friesdorf W, et al. **Anasth Intensivther Notfallmed** 1990 Apr;25(2):121–8 (53 ref.) (Eng. Abstr.) Comment in: Anasth Intensivther Notfallmed 1990 Apr;25(2):119–20. **(Ger)**
[Progress in high-tech anesthesiology? (editorial; comment)] Schwilden H, et al. **Anasth Intensivther Notfallmed** 1990 Apr;25(2):119–20 Comment on: Anasth Intensivther Notfallmed 1990 Apr;25(2):121–8. **(Ger)**
[Computer-assisted recording and evaluation of electromyography signals] Baur S, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:235–6 **(Ger)**
[Current status of opto-electronic movement analysis—systems and their use within the scope of gait image studies] Boenick U, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:153–4 **(Ger)**
[Production of variable high pressure pulses in the area of therapeutic ultrasound] Knoblach W. **Biomed Tech (Berlin)** 1989;34 Suppl:146–7 **(Ger)**
[A real-time color image analysis system for medical diagnosis] Köhler HW, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:26–7 **(Ger)**
[Kinematic analysis of shoulder abduction in dynamic conditions. A study with a roentgen system] Michiels I, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:150–2 **(Ger)**
[A heart rate data port. A digital system for mobile heart rate storage] Tiesler G. **Biomed Tech (Berlin)** 1989;34 Suppl:221–2 **(Ger)**
[Multi-parameter classification exemplified by left ventricular angiograms] Waltenspiel R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:50–1 **(Ger)**
[A display and analysis system for bioelectrical signals with LCD] Yang YX, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:40–1 **(Ger)**
[A microcomputer system for video-intensitometry evaluation of contrast echocardiograms for evaluating myocardial perfusion in real time] Zotz R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:123–4 **(Ger)**
[Electronic data processing storage and analysis of allergologic data with reference to epidemiologic and occupational dermatologic aspects] Diepgen TL, et al. **Dermatol Beruf Umwelt** 1989 Sep–Oct;37(5):163–7 (Eng. Abstr.) **(Ger)**
[Electronic data processing at the clinic] Lang GK, et al. **Fortschr Ophthalmol** 1990;87(1):80–4 (Eng. Abstr.) **(Ger)**
[Video fluorescence angiography for studying the hemodynamics of the eye] Reim M, et al. **Fortschr Ophthalmol** 1989;86(6):744–50 (Eng. Abstr.) **(Ger)**
[Data processing at the special diabetes ambulatory center of the Innsbruck Ophthalmology University Clinic—electronic data processing in ophthalmology] Kieselbach G, et al. **Klin Monatsbl Augenheilkd** 1990 Mar; 196(3):179–81 (Eng. Abstr.) **(Ger)**
[Experiences with the electronic data processing system "Teamdata" in pathology] Hackl H. **Pathologe** 1990 Mar; 11(2):107–10 **(Ger)**
[Possibilities for the use of administrative electronic data processing in clinical pathology] Oberholzer M, et al. **Pathologe** 1990 Jul;11(4):229–35 **(Ger)**
[An installation control and documentation system for teletherapy equipment. Preliminary information] Brasching HP, et al. **Radiobiol Radiother (Berl)** 1990;31(2):193–5 (Eng. Abstr.) **(Ger)**
[Working at video display terminals] Krueger H. **Ther Umsch** 1989 Nov;46(11):775–9 (12 ref.) (Eng. Abstr.) **(Ger)**
[Intra-operative digital subtraction angiography with a surgical image enhancer] Stelzer G, et al. **Vasa Suppl** 1989; 27:382–4 **(Ger)**
[Constituents of an information system for administration and planning in public health and social service] Panzer D. **Z Arztl Fortbild (Jena)** 1990;84(4):173–7 **(Ger)**
[Rest position of the eyes and its effect on viewing distance and visual fatigue in computer display work] Heuer H, et al. **Z Exp Angew Psychol** 1989;36(4):538–66 (Eng. Abstr.) **(Ger)**
[Viewpoints on preparations for integrating data processing systems in routine microbiology diagnosis] Lorenz H, et al. **Z Gesamte Hyg** 1990 Apr;36(4):199–201 (Eng. Abstr.) **(Ger)**
[Experience with computer-assisted documentation at the casualty ward of the surgery clinic in the Suhl district hospital] Recknagel F, et al. **Zentralbl Chir** 1989; 114(15):1019–24 (Eng. Abstr.) **(Ger)**
[A standard computer system for management of production] Camurati P. **Boll Chim Farm** 1987 Jan;126(1):25–31 (Eng. Abstr.) **(Ita)**
[The definition and realization of a computerized archive for radiological data of scientific interest] Ukovich W, et al. **Radiol Med (Torino)** 1990 Mar;79(3):233–8 (Eng. Abstr.) **(Ita)**
[Clinical evaluation on the diagnosis of chest disease using CRT units] Fukuhisa K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Mar; 27(3):249–55 (Eng. Abstr.) **(Jpn)**
[Automated image processing by PACS as a simple tool for designing craniotomy; synthesis of sagittal reconstructed CT images and cerebral angiograms] Kikuchi K, et al. **No Shinkei Geka** 1990 Apr;18(4):355–60 (Eng. Abstr.) **(Jpn)**
[Development of a user-friendly laboratory information system] Nishibori M, et al. **Rinsho Byori** 1990 Mar; 38(3):273–81 (Eng. Abstr.) **(Jpn)**
[An inquiry into the factors affecting the complaints of subjective symptoms in VDT operators] Tarumi K, et al. **Sangyo Igaku** 1990 Mar;32(2):77–88 (Eng. Abstr.) **(Jpn)**
[Evaluation of a Holter electrocardiography system with real-time analysis] Bordalo e Sá AL, et al. **Rev Port Cardiol** 1988 Mar–Apr;7(2):133–42 (Eng. Abstr.) **(Por)**
[A computer system for analysis and presentation of the results of studies of the immune status of patients with a profile of resuscitation] Semenov VN, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):47–9 (Eng. Abstr.) **(Rus)**
[An analysis of biopotentials in the neuromuscular junction using a computer] Beliaev VA, et al. **Fiziol Zh SSSR** 1989 Sep;75(9):1282–5 **(Rus)**
[Hygienic evaluation of artificial lighting in the classroom for studying information science and computer technics in secondary schools] Doskin VA, et al. **Gig Sanit** 1989 Jun;(6):27–30 (Eng. Abstr.) **(Rus)**
[Sanitary-hygienic evaluation of working conditions of female telephone operators working with video display terminals] Rud' GG, et al. **Gig Sanit** 1990 May;(5):31–3 **(Rus)**
[A physiologic hygiene assessment of the work of female telephone operators at a city directory-information service while working with display terminals] Rud' GG, et al. **Gig Tr Prof Zabol** 1989;(10):7–10 (Eng. Abstr.) **(Rus)**
[A formalized patient history—a new form of medical documentation] Shalimov AA, et al. **Klin Khir** 1990; (3):35–6 (Eng. Abstr.) **(Rus)**
[Organizational and methodologic approaches to the design of information systems for the general hospital] Krylov NL, et al. **Voen Med Zh** 1989 Sep;(9):8–11 **(Rus)**
[An automated hospital system for collecting and processing of medical information] Krylov NL, et al. **Voen Med Zh** 1989 Oct;(10):7–9 **(Rus)**
[Lacrimal hyposecretion in women working with video terminals] Frković A, et al. **Arh Hig Rada Toksikol** 1989 Sep;40(3):291–6 (Eng. Abstr.) **(Scr)**
[The shoulder "moment" and work on video terminals] Sarić A. **Arh Hig Rada Toksikol** 1989 Dec;40(4):399–404 (Eng. Abstr.) **(Scr)**
[Quality of the data in a patient registry] Almer S, et al. **Lakartidningen** 1990 Apr 18;87(16):1335–8 **(Swe)**
[Expert opinion: There is no prove of increased risk of skin diseases or flicker problems in working with video terminals] Ehinger B. **Lakartidningen** 1989 Sep 6; 86(36):2970 **(Swe)**
[Physiologic origin of skin damage and systemic symptoms caused by visual display screens?] Lidén S, et al. **Lakartidningen** 1990 Apr 18;87(16):1346–8 **(Swe)**
[Do video screens cause skin damage?] Swanbeck G. **Lakartidningen** 1990 Apr 18;87(16):1343 **(Swe)**

ECONOMICS

Facilitating computer interfaces with the Health Level Seven standard [letter] Poikonen J. **Am J Hosp Pharm** 1990 Mar; 47(3):520

LEGISLATION & JURISPRUDENCE

Current issues in data protection. Barber B. **Med Inf (Lond)** 1989 Jul–Sep;14(3):207–9

STANDARDS

Methodology to evaluate a computer-based system for surveillance of hospital-acquired infections. Gaynes R, et al. **Am J Infect Control** 1990 Feb;18(1):40–6
The Medical Information Bus. Figler AA, et al. **Biomed Instrum Technol** 1990 Mar–Apr;24(2):101–11
The missing link: multimedia communications. Bélanger G. **Dimens Health Serv** 1990 Mar;67(2):18–21
Enhancement and compression of digital chest radiographs. Cohn M, et al. **J Thorac Imaging** 1990 Jan;5(1):92–5
Clinical computing in two teaching hospitals [letter] **MD Comput** 1989 Nov–Dec;6(6):323–4
[Hygienic principles of the optimal arrangement of working place for students during the training in computer use] Doskin VA, et al. **Gig Sanit** 1990 Mar;(3):36–9 (Eng. Abstr.) **(Rus)**
[Hygienic problems of the organization of work places using video display terminals] Navakatikian AO, et al. **Gig Sanit** 1989 Sep;(9):60–3 (26 ref.) **(Rus)**
[The relation of indices of the functional status of computer operators to the quality of the image on display terminals] Doskin VA, et al. **Gig Tr Prof Zabol** 1989;(10):1–4 **(Rus)**
[Hygienic assessment of working conditions for schoolchildren at video terminals during their academic studies] Gel'fishcheva EA, et al. **Gig Tr Prof Zabol** 1989; (10):4–7 (Eng. Abstr.) **(Rus)**
[The complex adjustment system for the microprocessor units] Vil'ner GA, et al. **Med Tekh** 1990 Mar–Apr;(2):32–4 (Eng. Abstr.) **(Rus)**

SUPPLY & DISTRIBUTION

Computer networks in medicine [letter; comment] **Lancet** 1989 Dec 16;2(8677):1456 Comment on: Lancet 1989 Nov 4;2(8671):1087–9.
Clinical computing in two teaching hospitals [letter] **MD Comput** 1989 Nov–Dec;6(6):323–4

TRENDS

Telecommunication. Strategy: communication links with physicians. Souhrada L. **Hospitals** 1990 May 20; 64(10):55–7, 60, 62
[Informatics in psychiatry—myths and reality] Kiejna A, et al. **Psychiatr Pol** 1988 Nov–Dec;22(6):491–8 **(Pol)**
[The status and prospects for the use of electronic computer technology in the medical stores support system] Voronkov OV. **Voen Med Zh** 1990 Jan;(1):58–60 **(Rus)**

UTILIZATION

More hospitals automate their pharmacies. Packer C. **Hospitals** 1989 Oct 5;63(19):77
Catastrophic might mean more computer purchases. Souhrada L. **Hospitals** 1989 Oct 5;63(19):52

COMPUTER SYSTEMS DEVELOPMENT see **COMPUTER SYSTEMS**

COMPUTER SYSTEMS ORGANIZATION see **COMPUTER SYSTEMS**

COMPUTER TERMINALS see **COMPUTER SYSTEMS**

COMPUTER USER TRAINING

End-user searching in a medical school curriculum: an evaluated modular approach. **Bradigan PS, et al. Bull Med Libr Assoc** 1989 Oct;77(4):348–56

Nursing, teaching and computers—my experiences. Cooper MH. **Comput Nurs** 1990 Mar–Apr;8(2):51, 79

IBM, education, and you [interview] Cotter H. **Comput Nurs** 1990 Jan–Feb;8(1):34–5

Computer use and education in radiology residency programs. Jones KM, et al. **Invest Radiol** 1990 May; 25(5):596–8

Grateful Med [letter; comment] **J Am Board Fam Pract** 1990 Apr–Jun;3(2):141 Comment on: J Am Board Fam Pract 1990 Jan–Mar;3(1):35–8.

Grateful Med: getting started [see comments] Shearer B, et al. **J Am Board Fam Pract** 1990 Jan–Mar;3(1):35–8 Comment in: J Am Board Fam Pract 1990 Apr–Jun;3(2):141.

Is PDQ still only a partially developed quantity in cancer education? [editorial] **J Cancer Educ** 1989;4(1):1–2

Microcomputer elective for senior dental students. Feldman CA. **J Dent Educ** 1990 Sep;54(9):570–5

Psychology of computer use: XVI. Effect of computer-pointing devices on children's processing rate. Jones T. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1259–63

[Hygienic evaluation of artificial lighting in the classroom for studying information science and computer technics in secondary schools] Doskin VA, et al. **Gig Sanit** 1989 Jun;(6):27–30 (Eng. Abstr.) **(Rus)**

STANDARDS

[Hygienic principles of the optimal arrangement of working place for students during the training in computer use] Doskin VA, et al. **Gig Sanit** 1990 Mar;(3):36–9 (Eng. Abstr.) **(Rus)**

TRENDS

Computer training in nurse education: a bird's eye view across the UK. Chambers M, et al. **J Adv Nurs** 1990 Jan; 15(1):16–21

COMPUTER VISION SYSTEMS see **ARTIFICIAL INTELLIGENCE**

COMPUTERIZED EMISSION TOMOGRAPHY see **TOMOGRAPHY, EMISSION-COMPUTED**

COMPUTERIZED TOMOGRAPHY, X-RAY see **TOMOGRAPHY, X-RAY COMPUTED**

COMPUTERS

see related
ATTITUDE TO COMPUTERS

Status report on the NBME's computer-based testing. Clyman SG, et al. **Acad Med** 1990 Apr;65(4):235–41

A survey of the personal computer laboratory facilities and policies at U.S. medical schools. Gunzburger LK, et al. **Acad Med** 1990 Aug;65(8):540–1

Computerised evaluation of the electrocardiogram during and for a short period after gall bladder surgery. Jakobsson J, et al. **Acta Anaesthesiol Scand** 1989 Aug;33(6):474–7

Computerized recording of itch in patients on maintenance hemodialysis. Ståhle-Bäckdahl M, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):410–4

Ink jet printing of digital radiographs. Johansson T, et al. **Acta Radiol** 1990 Jan;31(1):108–10

Computerized follow-up of abnormalities detected at mammography screening. Monticciolo DL, et al. **AJR Am J Roentgenol** 1990 Oct;155(4):751–3

Validation of a new computerized technique for quantitating individual dietary intake: the Nutrition Evaluation Scale System (NESSy) vs the weighed food record. Kretsch MJ, et al. **Am J Clin Nutr** 1990 Mar;51(3):477–84

Guidelines for computer-related articles [editorial] Catrou PG, et al. **Am J Clin Pathol** 1990 May;93(5):712

Selecting computer systems in augmentative communication [letter; comment] Angelo J, et al. **Am J Occup Ther** 1990 Feb;44(2):181 Comment on: Am J Occup Ther 1989 Aug;43(8):529–34.

Teaching the patient with cognitive deficits to use a computer. Batt RC, et al. **Am J Occup Ther** 1990 Apr; 44(4):364–7

A comparison, for teaching purposes, of three data-acquisition systems for the Macintosh. Swanson HD. **Am J Physiol** 1990 Jun;258(6 Pt 3):S17–23

Prompting physicians for preventive procedures: a five-year study of manual and computer reminders. Harris RP, et al. **Am J Prev Med** 1990 May–Jun;6(3):145–52

A simple pocket calculator approach to predict anesthetic drug concentrations from pharmacokinetic data. Maitre PO, et al. **Anesthesiology** 1990 Aug;73(2):332–6

On screens and screening [letter] Ravet J. **Aust Fam Physician** 1989 Nov;18(11):1452

Medical history on computer [letter] Downie NA. **Aust N Z J Ophthalmol** 1989 Nov;17(4):453–4

Provision of biosciences information in the academic environment: compact disc-read only memory. Kimber N. **Biochem Soc Trans** 1989 Oct;17(5):835–7

Medical credit cards [letter; comment] Hall MS, et al. **BMJ** 1989 Sep 30;299(6703):859–60 Comment on: BMJ 1989 Aug 19;299(6697):472.

Use of a computer in the calibration of dye dilution curves by a dynamic method. Hamer J, et al. **Br Heart J** 1966 Mar;28(2):147–51

Prediction of infusion rates: computer study. Harrison MJ. **Br J Anaesth** 1990 Mar;64(3):283–6

Computers in general practice: patients' views [letter] Tooley PJ. **Br J Gen Pract** 1990 Apr;40(333):167

Nutritional assessment: a computer-based dietary analysis. Thompson GW, et al. **Can Dent Assoc J** 1989 Sep; 55(9):709–12

Anaesthetic data logging using a Psion pocket computer [letter] Taylor RH, et al. **Can J Anaesth** 1990 Apr; 37(3):386–7

Surviving a crash landing: a software review. Goldman B. **Can Med Assoc J** 1990 May 1;142(9):990–1

Medical computing in the '90s: get ready for a Big Mac attack. Goldman B. **Can Med Assoc J** 1990 Apr 15; 142(8):858–60

Sterile "cable drape" reduces contamination [letter] Roth R. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):198

Computers in the medical workplace. Drury B. **Colo Med** 1989 Nov;86(17):335–8

Pilot study on the feasibility of a computerized speech recognition charting system. Feldman CA, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):213–5

Computer integrated measurement of respiratory compliance. Taylor NA. **Comput Biol Med** 1990;20(1):55–64

The automation of routine calculations and graphing for alkaline filter elution analysis on a computer-controlled liquid scintillation analyzer. Sognier MA, et al. **Comput Methods Programs Biomed** 1989 Aug;29(4):235–43

Computer acquisition and analysis of skin temperature and heat flow data from heat flux transducers. Vallerand AL, et al. **Comput Methods Programs Biomed** 1989 Dec; 30(4):279–82

Transferring out of nursing and into information services [letter; comment] Woolery L. **Comput Nurs** 1989 Sep–Oct; 7(5):197 Comment on: Comput Nurs 1989 Mar–Apr;7(2):55–7.

Applications of computers in surgery. Cohen BJ, et al. **Curr Surg** 1990 Mar–Apr;47(2):104–9

IPGMAKER: a program for IBM-compatible personal computers to create and test recipes for immobilized pH gradients. Altland K. **Electrophoresis** 1990 Feb;11(2):140–7

Computerization of data bases for genetic stock collections. Curtiss R 3d. **Genome** 1989;31(2):1102–3

Computers: the best friends a human genome ever had. Kelly MJ. **Genome** 1989;31(2):1027–33 (3 ref.)

The pathologist as student and educator [editorial] Gorstein F, et al. **Hum Pathol** 1990 Jan;21(1):1–3

The theoretical development of a multichannel time-series myoprocessor for simultaneous limb function detection and muscle force estimation. Triolo RJ, et al. **IEEE Trans Biomed Eng** 1989 Oct;36(10):1004–17

The experimental demonstration of a multichannel time-series myoprocessor: system testing and evaluation. Triolo RJ, et al. **IEEE Trans Biomed Eng** 1989 Oct; 36(10):1018–27

Computer based evaluation of clinical skills. Schwartz MW. **Indian J Pediatr** 1989 Jan–Feb;56(1):55–61

Comparison of plateletapheresis with two cell separators using identical donors. Bertholf MF, et al. **Infusionstherapie** 1989 Aug;16 Suppl 2:45 **(Eng, Ger)**

Simulated plasma exchange procedures with the COBE Spectra apheresis system using healthy donors. Chapman R, et al. **Infusionstherapie** 1989 Aug;16 Suppl 2:47 **(Eng, Ger)**

Lymphocytopheresis for killer cell generation and in patients with chronic lymphocytic leukemia: comparison of the COBE 2997 and the COBE Spectra. Dutcher JP, et al. **Infusionstherapie** 1989 Aug;16 Suppl 2:49 **(Eng, Ger)**

Use of the COBE Spectra System (CSS) for platelet pheresis (PP) and intensive plasma exchange (IPE). Kevy SV, et al. **Infusionstherapie** 1989 Aug;16 Suppl 2:46 **(Eng, Ger)**

Further results with the COBE Spectra system. Platelet collection using the COBE Spectra. Price TH, et al. **Infusionstherapie** 1989 Aug;16 Suppl 2:44 **(Eng, Ger)**

COBE Spectra Apheresis System: designs, protocols and results. Urdahl SG. **Infusionstherapie** 1989 Aug;16 Suppl 2:30–43 **(Eng, Ger)**

The CellSoft computerized semen analysis system: sperm image sizes and velocity measurements, and the consequences for internal running conditions. Aanesen A, et al. **Int J Androl** 1990 Aug;13(4):278–86

Summary of: the Tenth Annual Conference on Computers in Anesthesia. New Orleans, LA, U.S.A. October 18–21, 1989. Cohn AI. **Int J Clin Monit Comput** 1990 Jan;7(1):41–4

Summary of the 10th Annual International Symposium on Computers in Critical Care, Pulmonary Medicine, and Anesthesia. Sittig DF, et al. **Int J Clin Monit Comput** 1990 Jan;7(1):33–9

Automated cardiovascular analysis and treatment (ACAT). Vincent JL, et al. **Int J Clin Monit Comput** 1989 Jul; 6(3):181–3

Central station data displays: an experimental evaluation of observer performance. Part 2: Factors affecting performance, and a comparison of analogue and digital data. Crew AD, et al. **Intensive Care Med** 1989;15(6):379–84

The technique of gait analysis using a Coda-3 motion analysis system. O'Brien T, et al. **Ir Med J** 1990 Jun;83(2):79–80

A computer interface for psychophysical and speech research with the Nucleus cochlear implant. Shannon RV, et al. **J Acoust Soc Am** 1990 Feb;87(2):905–7

Mainframe computer screens for drug/nutrient interactions [news] **J Am Diet Assoc** 1990 Jul;90(7):927, 930–1

Nutrition Evaluation Scale System reduces time and labor in recording quantitative dietary intake. Fong AK, et al. **J Am Diet Assoc** 1990 May;90(5):664–70

An introduction to interactive hypermedia. Lynch PJ, et al. **J Biocommun** 1990;17(1):2–8

Computer-assisted method development in chromatography. **J Chromatogr** 1989 Dec 27;485:1–675

Should the complete medical record be computerized in family practice? An opposing view. Rodnick JE. **J Fam Pract** 1990 Apr;30(4):460–4

Should the complete medical record be computerized in family practice? An affirmative view. Spann SJ. **J Fam Pract** 1990 Apr;30(4):457–60

Dental characteristics of a large military population useful for identification. Friedman RB, et al. **J Forensic Sci** 1989 Nov;34(6):1357–64

Computer-aided headspace gas chromatography applied to blood-alcohol analysis: importance of online process control. Jones AW, et al. **J Forensic Sci** 1989 Sep; 34(5):1116–27

Personal computer based teletherapy CT-RT treatment planning system (TSG-RADPLAN). Sharma VK, et al. **J Med Syst** 1990 Apr;14(1–2):49–57

A fast, high precision and inexpensive analog to digital board for PC-AT or compatible. Manis PB, et al. **J Neurosci Methods** 1989 Oct;30(1):41–54

Current applications of computers in nuclear medicine. Ghosh PR. **J Nucl Med** 1990 Feb;31(2):20A–22A, 25A, 28A

The Second World Symposium: Computers in the care of the mother, fetus and newborn. Kyoto, Japan, October 23–26, 1989. Abstracts. **J Perinat Med** 1989;17 Suppl 1:1–229

Computer-aided design in wheelchair seating. St-Georges M, et al. **J Rehabil Res Dev** 1989 Fall;26(4):23–30

Computers in medicine. Barnett O. **JAMA** 1990 May 16; 263(19):2631–3

Computerized ordering of experimental animals and test authorization. Maerki U, et al. **Lab Anim** 1990 Jan; 24(1):25–31

USSR: theft of Chernobyl data [news] Rich V. **Lancet** 1990 Sep 22;336(8717):736

Versatile digital data logger: storage of gastrointestinal motility data. Barnett TG, et al. **Med Biol Eng Comput** 1990 Mar;28(2):187–92

The use of computerized risk assessment for personal instruction in the primary prevention of ischaemic heart disease in a Japanese Automated Multiphasic Health Testing and Services Center. Hinohara S, et al. **Med Inf (Lond)** 1990 Jan–Mar;15(1):1–9

Informatics in professional education. Ball MJ, et al. **Methods Inf Med** 1989 Nov;28(4):250–4

Computer-assisted elaboration of job histories. Martin JM, et al. **Methods Inf Med** 1990 Mar;29(2):146–52

Computers in cardiology [letter; comment] Cheng TO. **N Z Med J** 1989 Jul 26;102(872):390 Comment on: N Z Med J 1989 Apr 12;102(865):154–5.

Information skills still in demand [news] Pearson R. **Nature** 1989 Oct 5;341(6241):470

Holography in artificial neural networks. Psaltis D, et al. **Nature** 1990 Jan 25;343(6256):325–30

Estimation of 140S particles in foot-and-mouth disease virus (FMDV) vaccine by using the computer analyzing system. Shirai J, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):621–30

Reproducibility and comparability of a computerized, self-administered food frequency questionnaire. Engle A, et al. **Nutr Cancer** 1990;13(4):281–92

Obstetrical applications of computer technology. Pinette MG, et al. **Obstet Gynecol Clin North Am** 1990 Mar; 17(1):249–67 (24 ref.)

Comparison between digital and analog image analysis of Scheimpflug photographs. Meinel UR. **Ophthalmic Res** 1990;22 Suppl 1:71–3

Thyroid cancer: a computer-assisted review of 5287 cases. Jensen MH, et al. **Otolaryngol Head Neck Surg** 1990 Jan; 102(1):51–65 (24 ref.)

A computerized device for long-term measurements of the contraction frequency of cultured rat heart cells under stable incubating conditions. Rohr S. **Pflugers Arch** 1990 Apr;416(1–2):201–6

Computerized analysis of anorectal manometry. Sakaniwa M, et al. **Prog Pediatr Surg** 1989;24:21–32

Whither radiology? Wither radiology? [letter] Jackson FI. **Radiology** 1990 Mar;174(3 Pt 1):894

Net result: folded protein. A neural network deciphers the structure of protein [news] Kinoshita J. **Sci Am** 1990 Apr; 262(4):24–6

Wiring the campuses [editorial] Atkinson RC, et al. **Science** 1990 May 4;248(4955):529

Humanity 2, computers 0 [news] Waldrop MM. **Science** 1989 Nov 3;246(4930):572–3

Computerization of academic vascular surgery. Flanigan DP.

Surgery 1989 Nov;106(5):911–9
The use of computers in dairy practice. Klingborg DJ. Vet Clin North Am Food Anim Pract 1989 Nov;5(3):583–9
[Eurothemes. Informatics, who registers what for whom and why?] Spanjer JM. Ned Tijdschr Geneeskd 1990 Mar 3; 134(9):449–52 (Dut)
[Electronic and digital imaging in ophthalmology. Analysis and prospects of future development] Kokel JL, et al. Bull Soc Ophtalmol Fr 1988 Dec;88(12):1465–9 (Eng. Abstr.) (Fre)
[Determination of virus concentration using a minicomputer] Smola T, et al. Arch Exp Veterinarmed 1990;44(2):311–7 (Eng. Abstr.) (Ger)
[Computer-assisted infrared thermometry in orthopedics] Blumtritt J. Beitr Orthop Traumatol 1990 Jun;37(6):334–7 (Eng. Abstr.) (Ger)
[Physiologic adaptation of the thermal manikin] Bischof W, et al. Z Gesamte Hyg 1989 Dec;35(12):723–5 (Eng. Abstr.) (Ger)
[Evaluation of activities in computer-supported work places from the viewpoint of occupational physiology] Schreinicke G, et al. Z Gesamte Hyg 1989;35(8):454–6 (Eng. Abstr.) (Ger)
[Experiences with computer-assisted occupational hygiene monitoring in ore mining] Vogel H, et al. Z Gesamte Hyg 1990 Mar;36(3):168–70 (Eng. Abstr.) (Ger)
[Computers in emergency medicine] Aguglia F, et al. Medicina (Firenze) 1990 Jan–Mar;10(1):53–8 (Eng. Abstr.) (Ita)
[Fuzzy inference and its application in the biomedical field] Saito T, et al. Nippon Rinsho 1989 Aug;47(8):1880–6 (6 ref.) (Jpn)
[Computer-aided diagnosis—from the era of application of statistical theories to the neuro-computer age] Furukawa T. Rinsho Byori 1990 Jan;Spec No 83:11–8 (Jpn)
[Utility of optical card on patient information] Shina S, et al. Rinsho Byori 1990 Apr;Spec No 84:12–21 (Jpn)
[Rationalization of the recording of case histories using a modular system] Ramstad G, et al. Tidsskr Nor Laegeforen 1990 Mar 30;110(9):1117–8 (Eng. Abstr.) (Nor)
[Automatic calculation, using a programmed calculator, of basic central hemodynamic parameters determined by impedance plethysmography] Kamenskaia VN, et al. Anesteziol Reanimatol 1989 May–Jun;(3):46–9 (Eng. Abstr.) (Rus)
[Input and output channels of quantum biocomputers] Minina SV, et al. Biofizika 1990 Jan–Feb;35(1):132–6 (Eng. Abstr.) (Rus)
[Experience with using computers in sanitary-epidemiological stations for automatic control of laboratory data] Chelnov VM, et al. Gig Sanit 1989 Jul; (7):65–6 (Rus)
[An automated control system for the state of health of rural residents] Bluzhas IN, et al. Klin Med (Mosk) 1989 Jul; 67(7):30–3 (Rus)
[The use of computers in hematologic cytologic studies] Kozinets GI, et al. Lab Delo 1990;(3):21–5 (16 ref.) (Eng. Abstr.) (Rus)
[The use of programmed microcalculators for automation of leukocyte count] Plykin DL. Lab Delo 1989;(9):41–4 (Eng. Abstr.) (Rus)
[The ophthalmic ergonomic characteristics of the visual apparatus of workers engaged in the assembly of computer memory elements on ferrites] Kovalenko VV, et al. Oftalmol Zh 1989;(4):225–7 (Eng. Abstr.) (Rus)
[Use of computer technics during mass screening of the population] Chernykh VE. Sov Med 1989;(10):54–6 (Rus)
[Introduction of computers in public health services of the Novgorod region] Medik VA, et al. Sov Zdravookhr 1989; (11):11–3 (Rus)
[Experience and perspectives of automatization of work in a polyclinic] Zubarev GP, et al. Sov Zdravookhr 1989; (11):14–7 (Eng. Abstr.) (Rus)
[CD-ROM in the retrieval of information: new means for the same end] Guardiola E, et al. Med Clin (Barc) 1990 May 5;94(17):666–71 (Spa)
[The computer sabotage of AIDS research: it is easy to clear a contaminated computer. Still not known who caused the coup] Lennbolm B. Lakartidningen 1990 Feb 7;87(6):350–1 (Swe)

ECONOMICS

The sixth annual medical hardware and software buyers' guide. Hoffman T. MD Comput 1989 Nov–Dec; 6(6):334–477

STANDARDS

Laboratory evaluation and use of the Engström metabolic computer in the clinical setting. Regan CJ, et al. Crit Care Med 1990 Aug;18(8):871–7

TRENDS

Advances in computerized practice management. Reinke TW, et al. Pa Med 1990 Apr;93(4):48–9

COMPUTERS, ANALOG

Comparison between digital and analog image analysis of Scheimpflug photographs. Meinel UR. Ophthalmic Res 1990;22 Suppl 1:71–3

COMPUTERS, DIGITAL see COMPUTERS

COMPUTERS, MAINFRAME see under COMPUTERS

CONALBUMIN see under EGG PROTEINS

CONCANAVALIN A

Structure of the major concanavalin A reactive oligosaccharides of the extracellular matrix component laminin. Knibbs RN, et al. Biochemistry 1989 Jul 25; 28(15):6379–92
Evidence from X-ray absorption fine structure spectroscopy for significant differences in the structure of concanavalin A in solution and in the crystal. Lin SL, et al. Biochemistry 1990 Apr 17;29(15):3599–603
Concanavalin A crossed affinity immunoelectrophoresis and image analysis for semiquantitative evaluation of microheterogeneity profiles of human serum transferrin from alcoholics and normal individuals. Heegaard NH, et al. Electrophoresis 1989 Dec;10(12):836–40
Lectin histochemical study of lipopigments with special regard to neuronal ceroid–lipofuscinosis. Results with concanavalin A. Elleder M. Histochemistry 1989; 93(2):197–205
Determination of distances of sugar protons from Mn2+ in concanavalin A. Divakar S. Indian J Biochem Biophys 1989 Jun;26(3):190–5
Con A–nonreactive human alpha 1–acid glycoprotein (AGP) is more effective in modulation of lymphocyte proliferation than Con A–reactive AGP serum variants. Pos O, et al. Inflammation 1990 Apr;14(2):133–41
Glial-conditioned medium and attachment to ConA are essential for long-term culture of cortical neurons. Bauer HC, et al. Int J Dev Neurosci 1990;8(2):151–8
Metal ion binding and conformational transitions in concanavalin A: a structure–function study. Brewer CF, et al. J Biomol Struct Dyn 1983 Dec;1(4):961–97
The modes of binding methyl-alpha (and beta)-D-glucopyranosides and some of their derivatives to concanavalin A—a theoretical approach. Sekharudu YC, et al. J Biomol Struct Dyn 1984 Aug;2(1):41–54
Concanavalin-A, lentil, and ricin lectin affinity binding characteristics of human thyrotropin: differences in the sialylation of thyrotropin in sera of euthyroid, primary, and central hypothyroid patients. Miura Y, et al. J Clin Endocrinol Metab 1989 Nov;69(5):985–95
A novel enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies to HIV-1 envelope glycoproteins based on immobilization of viral glycoproteins in microtiter wells coated with concanavalin A. Robinson JE, et al. J Immunol Methods 1990 Aug 28; 132(1):63–71
Diagnostic of precipitant for biomacromolecule crystallization by quasi-elastic light-scattering. Mikol V, et al. J Mol Biol 1990 May 5;213(1):187–95
A comparison of the in vitro and in vivo immunologic activities of concanavalin A and its succinylated derivative. Morris RE, et al. Transplant Proc 1987 Feb;19(1 Pt 1):626–7

ANALOGS & DERIVATIVES

Interaction of concanavalin A and a divalent derivative with lymphocytes and reconstituted lymphocyte membrane glycoproteins. Sharom FJ, et al. Membr Biochem 1989; 8(3):147–63
A comparison of the in vitro and in vivo immunologic activities of concanavalin A and its succinylated derivative. Morris RE, et al. Transplant Proc 1987 Feb;19(1 Pt 1):626–7

ANALYSIS

Estimation of biotinylated lectin by isoelectric focusing. Harada H, et al. Electrophoresis 1990 Jun;11(6):505–6
The structure of the saccharide–binding site of concanavalin A. Derewenda Z, et al. EMBO J 1989 Aug;8(8):2189–93
Concanavalin A binding sites in fetal, adult, transitional, and malignant rectosigmoid mucosa. Caccamo D, et al. Hum Pathol 1989 Dec;20(12):1186–92
A Ca2(+)-sensitive glycoprotein, GP90, associated with the cytoskeleton from brain and gizzard. Moss DJ, et al. J Cell Sci 1989 May;93 (Pt 1):85–94
Isoelectric focusing studies of concanavalin A and the lentil lectin. Bhattacharyya L, et al. J Chromatogr 1990 Feb 21; 502(1):131–42

ANTAGONISTS & INHIBITORS

Immunomodulatory properties of platelet factor 4: prevention of concanavalin A suppressor-induction in vitro and augmentation of an antigen-specific delayed-type hypersensitivity response in vivo. Gregg EO, et al. Immunology 1990 Jun;70(2):230–4

DIAGNOSTIC USE

Fluorescein-conjugated lectin visualization of fungi and acanthamoebae in infectious keratitis. Robin JB, et al. Ophthalmology 1989 Aug;96(8):1198–202

GENETICS

Structure of the gene encoding concanavalin A from Canavalia gladiata and its expression in Escherichia coli cells. Yamauchi D, et al. FEBS Lett 1990 Jan 15; 260(1):127–30

IMMUNOLOGY

Immunoblotting analysis of concanavalin A–isolated allergens of Candida albicans. Savolainen J, et al. Allergy 1990 Jan;45(1):40–6
[Acute experimental glomerulonephritis induced by the glomerular deposition of circulating polymeric IgA–concanavalin A complexes] Davin JC, et al. Nephrologie 1989;10(3):151–5 (Eng. Abstr.) (Fre)

ISOLATION & PURIFICATION

Structure of the gene encoding concanavalin A from Canavalia gladiata and its expression in Escherichia coli cells. Yamauchi D, et al. FEBS Lett 1990 Jan 15; 260(1):127–30
Carbohydrates as a tool for oriented immobilization of antigens and antibodies. Turková J, et al. J Chromatogr 1990 Feb 2;500:585–93

METABOLISM

The CD11c antigen couples concanavalin A binding to generation of superoxide anion in human phagocytes. Lacal PM, et al. Biochem J 1990 Jun 15;268(3):707–12
Flow cytometric analysis of cell surface carbohydrates in metastatic human breast cancer. Alam SM, et al. Br J Cancer 1990 Aug;62(2):238–42
Changes in concanavalin A–reactive proteins in inflammatory disorders. Silvestrini B, et al. Clin Chem 1989 Nov; 35(11):2207–11
Lectin binding characteristics of a cholesterol nucleation promoting protein. Harvey PR, et al. Clin Chim Acta 1989 Nov;185(2):185–9
Con A affinity of rat alpha 1–acid glycoprotein (rAGP): changes during inflammation, dexamethasone or phenobarbital treatment as detected by crossed affino immunoelectrophoresis (CAIE) are not only a reflection of biantennary glycan content. Pos O, et al. Clin Chim Acta 1989 Sep 29;184(2):121–31
Increased affinity to concanavalin A and enhanced secretion of alpha 1–acid glycoprotein by hepatocytes isolated from turpentine–treated rats. Drechou A, et al. Eur J Cell Biol 1989 Oct;50(1):111–6
Distribution of electric charges and concanavalin A binding sites on autophagic vacuoles and lysosomes in mouse hepatocytes. Sakai M, et al. Exp Cell Res 1989 Nov; 185(1):143–53
Light and electron microscopical demonstration of concanavalin A and wheat-germ agglutinin binding sites by use of antibodies against the lectin or its label (peroxidase). Peruzzo B, et al. Histochemistry 1989; 92(6):505–13
Modulation of glycogen stores in epithelial cells during airway development in Syrian golden hamsters: a histochemical study comparing concanavalin A binding with the periodic acid–Schiff reaction. Ito T, et al. J Histochem Cytochem 1990 May;38(5):691–7
Modulation of the binding and endocytosis of concanavalin A by guinea pig keratinocytes: reversible antagonistic effects of cholesterol and phospholipid–liposomes. Callaghan TM, et al. J Invest Dermatol 1990 Jan; 94(1):58–64
Binding of lanthanum and gadolinium ions to concanavalin A studied calorimetrically at 25 degrees C. Barone G, et al. J Mol Recognit 1989 Dec;2(4):147–51
Identification and isolation of an axonal plasma membrane enriched fraction from cerebellar granule cell neurites. Mason PW, et al. J Neurosci Res 1990 Apr;25(4):511–23
Interaction of concanavalin A and a divalent derivative with lymphocytes and reconstituted lymphocyte membrane glycoproteins. Sharom FJ, et al. Membr Biochem 1989; 8(3):147–63
Binding of serum prostate antigen to concanavalin A in patients with cancer or hyperplasia of the prostate. Barak M, et al. Oncology 1989;46(6):375–7
Involvement of the lysine-binding sites of plasminogen on its interaction with concanavalin A. Arias M, et al. Thromb Res 1989 Dec 15;56(6):709–18
The distributions of phytohemagglutinin–P and concanavalin A binding sites on equine, bovine and canine peripheral blood lymphocytes. Tajima M, et al. Zentralbl Veterinarmed [B] 1990 Jun;37(4):290–6

PHARMACOLOGY

Overlap of concanavalin–A and insulin imprinting in rat thymocytes. Csaba G, et al. Acta Physiol Hung 1990; 75(2):107–10
Cell reaction to concanavalin A in cancer patients. Knejzlíková H, et al. Acta Univ Palacki Olomuc Fac Med 1989;123:123–30
The effect of beta-adrenoceptor blocking drugs on histamine liberation, prostaglandin synthesis and phospholipid turnover in isolated mast cells stimulated with concanavalin A. Drábiková K, et al. Agents Actions 1990 Apr; 30(1–2):77–80
Does intracellular histamine mediate mast cell histamine

release? Brandes LJ, et al.
Biochem Biophys Res Commun 1990 Mar 16;167(2):665–72

Concanavalin A affects beta-tubulin mRNA expression during neuritic processes of mouse neuroblastoma N18TG2 cells in a different manner from colchicine. Katayama N, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1348–54

Concanavalin A stimulates the Rolipram-sensitive isoforms of cyclic nucleotide phosphodiesterase in rat thymic lymphocytes. Valette L, et al.
Biochem Biophys Res Commun 1990 Jun 29;169(3):864–72

Concanavalin A reveals olfactory receptors which discriminate between alkane odorants on the basis of size. Polak EH, et al. **Biochem J** 1989 Sep 1;262(2):475–8

Concanavalin A–induced receptor aggregation stimulates the tyrosine kinase activity of the insulin receptor in intact cells. Shiba T, et al. **Biochem J** 1990 May 1;267(3):787–94

AY9944 inhibits early activation of phosphatidylinositol metabolism in concanavalin A–stimulated lymphocytes. Rampini C. **Biochem Pharmacol** 1990 Sep 15;40(6):1417–9

Fatty acid inhibition of concanavalin A–stimulated lymphocyte proliferation. Calder PC, et al.
Biochem Soc Trans 1989 Dec;17(6):1042–3

The relationship between mitogen-induced changes in the cytoplasmic pH and free Ca2+ concentration in rat thymocytes. Gukovskaya AS, et al.
Biochim Biophys Acta 1990 Mar 9;1051(3):242–9

Selective inhibition by vasocortin of histamine release induced by dextran and concanavalin-A from rat peritoneal cells. Carnuccio R, et al. **Br J Pharmacol** 1989 Sep; 98(1):32–4

Exercise stress alters the percentage of splenic lymphocyte subsets in response to mitogen but not in response to interleukin-1. Randall Simpson JA, et al.
Brain Behav Immun 1989 Jun;3(2):119–28

Spontaneous and evoked transmitter releases after concanavalin A treatment are affected differently by hypertonic low calcium solutions at frog neuromuscular junction. Narita K, et al. **Brain Res** 1990 Mar 26;512(1):33–9

Rates of pyruvate utilization and lactate formation by lymphocytes from young and aged rats. Serrano MA, et al. **Braz J Med Biol Res** 1989;22(5):555–9 (20 ref.)

Concanavalin A affects glycosaminoglycans cellular and extracellular accumulation in cultured embryonic fibroblasts. Locci P, et al. **Cell Biol Int Rep** 1990 Jul; 14(7):641–8

The role of increased calcium influx rate in receptor mediated function of differentiating HL-60 cells. Aviram A, et al. **Cell Calcium** 1990 Apr;11(4):269–74

The use of concanavalin A to competitively inhibit Pseudomonas aeruginosa adherence to rabbit corneal epithelium. Blaylock WK, et al. **CLAO J** 1990 Jul–Sep; 16(3):223–7

Analysis of plasma membrane protein changes in Dictyostelium discoideum during concanavalin A induced receptor redistribution using two-dimensional gel electrophoresis. Patton WF, et al. **Electrophoresis** 1990 Jan; 11(1):79–85

Effect of the lectin concanavalin-A on calcium-regulated adenosine 3',5'-monophosphate accumulation in bovine parathyroid cells. el-Hajj Fuleihan G, et al.
Endocrinology 1990 Apr;126(4):1996–2002

Concanavalin A potentiates NMDA-evoked responses in the Xenopus oocyte expression system. Geoffroy M, et al.
Eur J Pharmacol 1989 Jul 18;166(2):355–6

Oxalyl thiolester concentrations decreased in lectin and phorbol ester-stimulated lymphocytes. Skorczynski SS, et al. **FASEB J** 1989 Oct;3(12):2415–9

Treatment of human peripheral lymphocytes with concanavalin A activates expression of glutathione reductase. Arnold HH, et al. **FEBS Lett** 1990 Jul 16; 267(2):189–92

Wheat germ agglutinin but not concanavalin A modulates protein kinase C-mediated phosphorylation of red cell skeletal proteins. Danilov YN, et al. **FEBS Lett** 1989 Nov 6;257(2):431–4

Stereocilia bundle stiffness: effects of neomycin sulphate, A23187 and concanavalin A. Kössl M, et al. **Hear Res** 1990 Mar;44(2–3):217–29

Mitogen-induced initiation of DNA synthesis by lymphocytes cultured in serum-free media [letter] Li W, et al. **Immunol Lett** 1990 Jan;23(3):235–6

Conditioned medium from concanavalin A–stimulated spleen cells inhibits the IgE-dependent sensitization of murine peritoneal mast cells in vitro. Coleman JW. **Immunology** 1990 Jan;69(1):150–4

Protein kinase C inhibitors enhance concanavalin A cap formation in polymorphonuclear leukocytes. Sato A, et al.
Int J Immunopharmacol 1990;12(1):121–5

Influence of some carbohydrates and concanavalin A on the adherence of Candida albicans in vitro to buccal epithelial cells. Macura AB, et al. **Int J Med Microbiol** 1989 Dec; 272(2):196–201

Effect of wheat germ agglutinin and concanavalin A on insulin binding and response by Madin-Darby canine kidney cells. Lotan RM, et al. **Isr J Med Sci** 1990 Jan; 26(1):5–11

A reverse effect of in vitro and in vivo concanavalin A–induced spleen cells on anti-sheep red blood cells response detected with a new method based on flow cytometry. Shimizu M, et al.
J Biochem Biophys Methods 1990 Apr–May;20(4):335–43

Rapid induction of thymosin beta 4 in concanavalin A–stimulated thymocytes by translational control. Schöbitz B, et al. **J Biol Chem** 1990 Sep 15;265(26):15387–91

Stimulation by concanavalin A of cartilage-matrix proteoglycan synthesis in chondrocyte cultures. Yan WQ, et al. **J Biol Chem** 1990 Jun 15;265(17):10125–31

Concanavalin A– and fetal-calf-serum–induced rounding and myosin light chain phosphorylation in cultured smooth muscle cells. Sasaki Y, et al. **J Cell Physiol** 1990 Aug; 144(2):183–9

Aging-related deficiency in intracellular calcium response to anti-CD3 or concanavalin A in murine T-cell subsets. Grossmann A, et al. **J Gerontol** 1990 May;45(3):B81–6

Quantification of proliferative and suppressive responses of human T lymphocytes following ConA stimulation. Nikš M, et al. **J Immunol Methods** 1990 Feb 9;126(2):263–71

The effects of 16,16-dimethyl PGE2 and phosphodiesterase inhibitors on Con A blastogenic responses and NK cytotoxic activity of mouse spleen cells. Ellis NK, et al.
J Leukoc Biol 1990 Apr;47(4):371–7

Morphological and quantitative aspects of the development of cytoplasmic granules in concanavalin A–stimulated normal human lymphocytes. McGirl A, et al.
J Leukoc Biol 1990 Jun;47(6):514–8

Conditioned medium from activated splenocytes increases substance P in sympathetic ganglia. Jonakait GM, et al.
J Neurosci Res 1990 May;26(1):24–30

Modulation of c-myc gene expression by extracellular stimuli in rat hepatoma cells. Morimura S, et al.
Jpn J Exp Med 1990 Apr;60(2):51–6

Effect of concanavalin A on serotonin transport into blood platelets: possible involvement of protein kinase C. Jikoh Y, et al. **Jpn J Pharmacol** 1990 Jul;53(3):403–10

Concanavalin A induces a cytoskeletal association of T200 molecules in T lymphocytes. Taffs RE, et al.
Mol Immunol 1989 Oct;26(10):925–37

Changes in distribution of electric charges in the surface membrane of rat ascites hepatocarcinoma cells induced by con A. Yamada T, et al. **Nature** 1973 Aug 3;244(5414):297–9

Glutamate receptor channels in rat DRG neurons: activation by kainate and quisqualate and blockade of desensitization by Con A. Huettner JE. **Neuron** 1990 Sep;5(3):255–66

Concanavalin A modulates a potassium channel in cultured Aplysia neurons. Lin SS, et al. **Neuron** 1989 Jul;3(1):95–102

Suppression of Con A response of mouse lymphocytes with unique M. leprae glycolipid. Nomaguchi H, et al.
Nippon Rai Gakkai Zasshi 1989 Jul–Sep;58(3):191–6

Concanavalin A promotes adherence of Salmonella typhimurium to small intestinal mucosa of rats. Abud RL, et al. **Proc Soc Exp Biol Med** 1989 Oct;192(1):81–6

Differential migration of lymphoblasts and small lymphocytes induced by mitogens in culture: characteristics of lymphoid cells. Tseng J, et al. **Reg Immunol** 1989 Jan–Feb;2(1):50–9

Carrier effect of concanavalin A–reactive and –non–reactive material in tuberculin PPD. Harboe M, et al.
Scand J Immunol 1990 Sep;32(3):263–71

Effect of concanavalin A on mouse islet cell transplantation. Zhu XY, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):954–6

Structure of the plasmalemma of human spermatozoa after treatment with antispermatozoa serum and concanavalin A. Ichev K, et al. **Z Mikrosk Anat Forsch** 1989; 103(4):547–54

[Characteristics of Con A induced cells and their inhibitory activities in patients with lymphoma] Wu Y.
Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1990 Apr; 12(2):131–6 (Eng. Abstr.) **(Chi)**

[Cellular immune dysfunction in the NOD mouse: suppression of concanavalin A–induced responses in spleen cells by activated macrophages] Kawase Y, et al.
Nippon Naibunpi Gakkai Zasshi 1989 Jul 20;65(7):674–85 (Eng. Abstr.) **(Jpn)**

[Increasing the sensitivity of murine splenic cells to interleukin-2 after in vivo exposure to lipopolysaccharide, muramyl dipeptide and concanavalin A] Rakhmilevich AL, et al. **Antibiot Khimioter** 1989 Nov;34(11):839–41 (Eng. Abstr.) **(Rus)**

[The role of protein phosphorylation in mast cell secretion, stimulated by concanavalin A. Connection to the cytoskeleton] Dulin NO, et al. **Biokhimiia** 1989 Sep; 54(9):1428–33 (Eng. Abstr.) **(Rus)**

[Photodynamic effects of a concanavalin A–chlorin e6 conjugate on human fibroblasts] Akhlynina TV, et al.
Biull Eksp Biol Med 1990 Feb;109(2):150–2 (Eng. Abstr.) **(Rus)**

[Degree of proliferative response to concanavalin A of spleen cells of mice of different strains and production of interleukin-2] Pukhal'skiĭ AL, et al.
Biull Eksp Biol Med 1989 Aug;108(8):238–40 (Eng. Abstr.) **(Rus)**

[The metabolic pathways of concanavalin A action on the chemosensitivity of the neuronal membrane] Arvanov VL, et al. **Neirofiziologiia** 1989;21(5):667–75 (Eng. Abstr.) **(Rus)**

[The morphofunctional characteristics of lymphoma NK/LY cells treated with concanavalin A and Vibrio cholerae neuraminidase] Bratus' GG, et al. **Tsitologiia** 1990; 32(1):67–73 (Eng. Abstr.) **(Rus)**

[The effect of glucagon and concanavalin A on cholesterol accumulation in mouse peritoneal macrophages and human aorta intima cells] Vasil'ev AV, et al. **Vopr Med Khim** 1989 Sep–Oct;35(5):90–3 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Improvement of pancreas allograft survival by donor and/or graft pretreatment with CyA and concanavalin A. Guerra E, et al. **Transplant Proc** 1990 Apr;22(2):716

CONCANAVALIN A BINDING SITES see **RECEPTORS, CONCANAVALIN A**

CONCANAVALIN A RECEPTORS see **RECEPTORS, CONCANAVALIN A**

CONCENTRATION see **ATTENTION**

CONCENTRATION CAMPS see under **PRISONS**

CONCEPT FORMATION

Information processing: a new model for understanding cognitive disturbances in psychiatric patients. Rund BR, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):305–16 (110 ref.)

The development of representation in young children. DeLoache JS. **Adv Child Dev Behav** 1989;22:1–39

Children's understanding of mental phenomena. Estes D, et al. **Adv Child Dev Behav** 1989;22:41–87

Understanding maps as symbols: the development of map concepts in children. Liben LS, et al.
Adv Child Dev Behav 1989;22:145–201 (75 ref.)

Verbal and nonverbal right hemisphere processing by chronic alcoholics. Cermak LS, et al. **Alcoholism (N Y)** 1989 Oct; 13(5):611–6

Strategy knowledge and strategy change in skilled performance: a study of the game Othello. Billman D, et al. **Am J Psychol** 1990 Summer;103(2):145–66

The ecological approach to perception: the place of perceptual content. Natsoulas T. **Am J Psychol** 1989 Winter;102(4):443–76 (44 ref.)

Concepts and conceptual structure. Medin DL.
Am Psychol 1989 Dec;44(12):1469–81 (102 ref.)

Reasoning. Rips LJ. **Annu Rev Psychol** 1990;41:321–53 (290 ref.)

To link, to infer, to understand. Kock H.
Arch Psychol (Frankf) 1989;141(3):175–93

Response feedback, certitude and learning from text. Kulhavy RW, et al. **Br J Educ Psychol** 1990 Jun;60 (Pt 2):161–70

The development of conservation concepts in children with visual impairment. Lister C, et al. **Br J Educ Psychol** 1989 Jun;59 (Pt 2):211–9

The construction and assessment of mental maps. Gordon AD, et al. **Br J Math Stat Psychol** 1989 Nov;42 (Pt 2):169–82

Abstract letter identities and developmental dyslexia. Bigsby P. **Br J Psychol** 1990 May;81 (Pt 2):227–63

Working memory, comprehension ability and the resolution of text anomaly. Yuill N, et al. **Br J Psychol** 1989 Aug; 80 (Pt 3):351–61

The role of causal sequence in the meaning of actions. Read SJ, et al. **Br J Soc Psychol** 1989 Dec;28 (Pt 4):341–51

Implicit access to semantic information. Young AW, et al.
Brain Cogn 1989 Nov;11(2):186–209

Narrative comprehension in adults with right and left hemisphere brain-damage: theme organization. Hough MS.
Brain Lang 1990 Feb;38(2):253–77

Kung infancy: the social context of object exploration. Bakeman R, et al. **Child Dev** 1990 Jun;61(3):794–809

Priorities in children's expectations about object label reference: form over color. Baldwin DA. **Child Dev** 1989 Dec;60(6):1291–306

The development of message evaluation skills in young children. Beal CR, et al. **Child Dev** 1990 Jun;61(3):705–12

Preschoolers' use of number words to denote one-to-one correspondence. Becker J. **Child Dev** 1989 Oct; 60(5):1147–57

The development of verb concepts: children's use of verbs to label familiar and novel events. Behrend DA.
Child Dev 1990 Jun;61(3):681–96

Small-scale deceit: deception as a marker of two-, three-, and four-year-olds' early theories of mind. Chandler M, et al. **Child Dev** 1989 Dec;60(6):1263–77

Children's agency beliefs, cognitive performance, and conceptions of effort and ability: individual and developmental differences. Chapman M, et al.
Child Dev 1989 Oct;60(5):1229–38

Beginning school math competence: minority and majority comparisons. Entwisle DR, et al. **Child Dev** 1990 Apr; 61(2):454–71

Developing theories of the mind: children's and adults' concepts of mental activities. Fabricius WV, et al.
Child Dev 1989 Dec;60(6):1278–90

A global developmental trend in cognitive processing speed. Hale S. **Child Dev** 1990 Jun;61(3):653–63

When experimental findings conflict with everyday observations: reflections on children's category learning [comment] [see comments] Kemler Nelson DG.
Child Dev 1990 Jun;61(3):606–10 Comment on: Child Dev 1990 Jun;61(3):593–605. Comment in: Child Dev 1990 Jun;61(3):611–3.

Young children's preference for mental state versus behavioral descriptions of human action. Lillard AS, et al. **Child Dev** 1990 Jun;61(3):731–41

Children's beliefs about listening: is it enough to be still and quiet? McDevitt TM, et al. **Child Dev** 1990 Jun;61(3):713–21

Conceptual development in infancy: the understanding of containment. MacLean DJ, et al. **Child Dev** 1989 Oct; 60(5):1126–37

Children's understanding of the modal expression of speaker certainty and uncertainty and its relation to the development of a representational theory of mind. Moore C, et al. **Child Dev** 1990 Jun;61(3):722–30

Infant chimpanzees spontaneously perceive both concrete and abstract same/different relations. Oden DL, et al. **Child Dev** 1990 Jun;61(3):621–31

Visiting the wizard: children's memory for a recurring event. Price DW, et al. **Child Dev** 1990 Jun;61(3):664–80

Children's understanding of cognitive cuing: how to manipulate cues to fool a competitor. Sodian B, et al. **Child Dev** 1990 Jun;61(3):697–704

Further comments on the attribute availability hypothesis of children's category learning [comment] Ward TB. **Child Dev** 1990 Jun;61(3):611–3 Comment on: Child Dev 1990 Jun;61(3):606–10.

Children and adults learn family-resemblance categories analytically [see comments] Ward TB, et al. **Child Dev** 1990 Jun;61(3):593–605 Comment in: Child Dev 1990 Jun;61(3):606–10.

Conceptions of athletic excellence among children and adolescents. Watkins B, et al. **Child Dev** 1989 Dec; 60(6):1362–72

Infants' detection of correlations among feature categories. Younger B. **Child Dev** 1990 Jun;61(3):614–20

Concepts of potency and resistance in causal prediction. Zelazo PD, et al. **Child Dev** 1989 Dec;60(6):1307–15

Conceptual learning in capuchin monkeys. Adams-Curtis LE. **Folia Primatol (Basel)** 1990;54(3–4):129–37 (37 ref.)

The person's conception of the structures of developing intellect: early adolescence to middle age. Demetriou A, et al. **Genet Soc Gen Psychol Monogr** 1989 Aug; 115(3):371–423

Probability learning and Piagetian probability conceptions in children 5 to 12 years old. Kreitler S, et al. **Genet Soc Gen Psychol Monogr** 1989 Nov;115(4):505–33

Information integration by children: the identification of rules by an alternative method. Lohaus A, et al. **Genet Soc Gen Psychol Monogr** 1989 Aug;115(3):329–47

Planning abilities in alcoholics, process and reactive schizophrenics, and normals. Murphy TJ, et al. **Int J Addict** 1989 May;24(5):435–44

Comprehension of concrete and abstract words in autistic children. Eskes GA, et al. **J Autism Dev Disord** 1990 Mar; 20(1):61–73

Emotion-related and abstract concepts in autistic people: evidence from the British Picture Vocabulary Scale. Hobson RP, et al. **J Autism Dev Disord** 1989 Dec; 19(4):601–23

Autistic children's knowledge of thinking and feeling states in other people. Prior M, et al. **J Child Psychol Psychiatry** 1990 May;31(4):587–601

Tinker toy test performance and vocational outcome in patients with closed-head injuries. Bayless JD, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):913–7

Transcending death during early adulthood: symbolic immortality, death anxiety, and purpose in life. Drolet JL. **J Clin Psychol** 1990 Mar;46(2):148–60

Performance of university students on the Fullerton subtest of idioms. Brasseur J, et al. **J Commun Disord** 1989 Oct; 22(5):351–9

On the limits of the matching concept in monkeys (Cebus apella). D'Amato MR, et al. **J Exp Anal Behav** 1989 Nov; 52(3):225–36

Short-term memory for responses: the "choose-small" effect. Fetterman JG, et al. **J Exp Anal Behav** 1989 Nov; 52(3):311–24

The effects of nodality on the formation of equivalence classes. Fields L, et al. **J Exp Anal Behav** 1990 May; 53(3):345–58

Instructional control of generalized relational matching to sample in children. Lowenkron B. **J Exp Anal Behav** 1989 Nov;52(3):293–309

Global increase in response latencies by early middle age: complexity effects in individual performances. Myerson J, et al. **J Exp Anal Behav** 1989 Nov;52(3):353–62

Preference for starting and finishing behavior patterns. Shimp CP, et al. **J Exp Anal Behav** 1989 Nov;52(3):341–52

An ecological analysis of knowing by wielding. Turvey MT, et al. **J Exp Anal Behav** 1989 Nov;52(3):387–407

Relational and absolute stimulus learning by monkeys in a memory task. Wright AA, et al. **J Exp Anal Behav** 1989 Nov;52(3):237–48

The relation between item identification difficulty and elaborative conceptual processing for children and adults. Ackerman BP, et al. **J Exp Child Psychol** 1990 Jun; 49(3):399–427

Problems brought about by "reading" a sequence of pictures. Bornens MT. **J Exp Child Psychol** 1990 Apr;49(2):189–226

Form categorization in 10-month-olds. Colombo J, et al. **J Exp Child Psychol** 1990 Apr;49(2):173–88

The rule learning behavior of reading disabled and normal children as a function of task characteristics and instruction. Fletcher CM, et al. **J Exp Child Psychol** 1990 Aug; 50(1):39–58

The development of spatial relation representations: evidence from studies of cerebral lateralization. Koenig O, et al. **J Exp Child Psychol** 1990 Aug;50(1):119–30

When do children overestimate their knowledge of unfamiliar targets? Mitchell P, et al. **J Exp Child Psychol** 1990 Aug; 50(1):81–101

Developmental differences in visual processing: strategy versus structure. Ruskin EM, et al. **J Exp Child Psychol** 1990 Aug;50(1):1–24

The role of symmetrical and asymmetrical social conflict in cognitive change. Russell J, et al. **J Exp Child Psychol** 1990 Feb;49(1):58–78

Complementary versus contrastive classification in preschool children. Waxman SR, et al. **J Exp Child Psychol** 1989 Dec;48(3):410–22

Infant categorization: memory for category-level and specific item information. Younger B. **J Exp Child Psychol** 1990 Aug;50(1):131–55

Rule abstraction, item memory, and chunking in rat serial-pattern tracking. Fountain SB. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):96–105

Self-perpetuating development of encoding biases. Lewicki P, et al. **J Exp Psychol [Gen]** 1989 Dec;118(4):323–37

Comparable measurement scales in task-comparison experiments [comment] Nelson TO. **J Exp Psychol [Gen]** 1990 Mar;119(1):25–9 Comment on: J Exp Psychol [Gen] 1990 Mar;119(1):5–24.

Implicit memory for unfamiliar objects depends on access to structural descriptions [see comments] Schacter DL, et al. **J Exp Psychol [Gen]** 1990 Mar;119(1):5–24 Comment in: J Exp Psychol [Gen] 1990 Mar;119(1):25–9.

Perceptual and conceptual factors in distortions in memory for graphs and maps. Tversky B, et al. **J Exp Psychol [Gen]** 1989 Dec;118(4):387–98

Evidence for two types of spatial representations: hemispheric specialization for categorical and coordinate relations. Kosslyn SM, et al. **J Exp Psychol [Hum Percept]** 1989 Nov;15(4):723–35

Intelligent temporal subsampling of American Sign Language using event boundaries. Parish DH, et al. **J Exp Psychol [Hum Percept]** 1990 May;16(2):282–94

Investigating differences in general comprehension skill. Gernsbacher MA, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 May;16(3):430–45

Effects of item-specific and relational information on hypermnesic recall. Klein SB, et al. **J Exp Psychol [Learn Mem Cogn]** 1989 Nov;15(6):1192–7

On learning complex procedural knowledge. Stadler MA. **J Exp Psychol [Learn Mem Cogn]** 1989 Nov;15(6):1061–9

On the development of procedural knowledge. Willingham DB, et al. **J Exp Psychol [Learn Mem Cogn]** 1989 Nov; 15(6):1047–60

Retrieval and comparison processes in part—whole decisions. Chaffin R, et al. **J Gen Psychol** 1989 Oct;116(4):393–406

Form characteristics of category-retrieval relationships in children and adults. Lange G, et al. **J Gen Psychol** 1990 Jan;117(1):5–14

Development of the concept of family in elementary school children. Borduin CM, et al. **J Genet Psychol** 1990 Mar; 151(1):33–43

The development of attribute dominance in the knowledge base. Lindberg MA. **J Genet Psychol** 1989 Sep; 150(3):269–80

The balance-scale dilemma: either the subject or the experimenter muddles through. Normandeau S, et al. **J Genet Psychol** 1989 Sep;150(3):237–50

The infant's concept of agency: the distinction between social and nonsocial objects. Poulin-Dubois D, et al. **J Genet Psychol** 1990 Mar;151(1):77–90

The developmental progression of children's knowledge constructions for heating and cooling. Slone M, et al. **J Genet Psychol** 1990 Jun;151(2):255–66

The development of structural complexity in the child's concept of family: the effect of cognitive stage, sex, and intactness of family. Wedemeyer NV, et al. **J Genet Psychol** 1989 Dec;150(4):341–57

Body image and comprehension of body part names. Benedet MJ, et al. **J Psycholinguist Res** 1989 Sep;18(5):485–96

Why boys will be boys and girls will be girls: understanding colloquial tautologies. Gibbs RW Jr, et al. **J Psycholinguist Res** 1990 Mar;19(2):125–45

A measure of semantic complexity among predications. Wiener M, et al. **J Psycholinguist Res** 1990 Mar; 19(2):103–23

Common ground in asking and understanding questions. Gibbs RW Jr, et al. **Lang Speech** 1988 Oct-Dec;31 (Pt 4):321–35

Comprehension of temporal terms by good and poor readers. Macaruso P, et al. **Lang Speech** 1989 Jan-Mar;32 (Pt 1):45–67

Conceptual tempo and resolution of social conflict by children. Boyer WN, et al. **Percept Mot Skills** 1990 Feb; 70(1):225–6

Comparison of narrative recall in 11-yr.-old children and adults. Cornish IM. **Percept Mot Skills** 1990 Feb;70(1):162

Beginning kindergarteners' perception of number. Fischer FE, et al. **Percept Mot Skills** 1990 Apr;70(2):419–25

Differences in comprehension processes as a function of hemisphericity. Gadzella BM, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):783–6

A study of humor and the right hemisphere. Johnson AM. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):995–1002

Number concepts of preschool children. Leder GC. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):1048–50

Effects of schematic organization on scientific contents learned by eight-year-old children. Pelegrina M, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1315–9

Comparison of paragraph comprehension test scores with reading versus listening-reading and multiple-choice versus nominal recall administration techniques: justification for the bypass approach. Weinberg WA, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1131–5

Alternative mechanisms for improvements in fluid ability performance among older adults. Hayslip B Jr. **Psychol Aging** 1989 Mar;4(1):122–4

Specific exemplar retention and prototype abstraction in young and old adults. Hess TM, et al. **Psychol Aging** 1986 Sep;1(3):202–7

Structural and operational capacities in integrative spatial ability. Salthouse TA, et al. **Psychol Aging** 1989 Mar; 4(1):18–25

Utilization of path-analytic procedures to investigate the role of processing resources in cognitive aging. Salthouse TA, et al. **Psychol Aging** 1988 Jun;3(2):158–66

The role of representations in age differences in analogical reasoning. Salthouse TA. **Psychol Aging** 1987 Dec; 2(4):357–62

Inferences about age impairments in inferential reasoning. Salthouse TA, et al. **Psychol Aging** 1987 Mar;2(1):43–51

Effects of cognitive training on primary mental ability structure. Schaie KW, et al. **Psychol Aging** 1987 Sep; 2(3):233–42

Effects of thematic information on script memory in young and old adults. Zelinski EM, et al. **Psychol Aging** 1988 Sep; 3(3):292–9

Using the longitudinal Guttman simplex as a basis for measuring growth. Collins LM, et al. **Psychol Bull** 1990 Jul;108(1):128–34 (19 ref.)

Effect of taxonomic examples on free-classification among subjects with two levels of formal schooling. Arevalo JS, et al. **Psychol Rep** 1990 Apr;66(2):603–13

Applying neopiagetian theory to the moral reasoning process. Glover RJ, et al. **Psychol Rep** 1990 Jun;66(3 Pt 2):1259–72

Differential importance of hierarchical learning, abstractness, and imagery. Hauck WE, et al. **Psychol Rep** 1990 Feb; 66(1):187–93

Some developmental trends in children's information-processing strategies. Molloy GN, et al. **Psychol Rep** 1990 Apr;66(2):443–8

Relationship between using conceptual comprehension of academic material and thinking abstractly about global life issues. Westman AS, et al. **Psychol Rep** 1990 Apr; 66(2):387–90

The impact of cognitive interference on performance during prolonged sleep loss. Mikulincer M, et al. **Psychol Res** 1990; 52(1):80–6

What one intelligence test measures: a theoretical account of the processing in the Raven Progressive Matrices Test. Carpenter PA, et al. **Psychol Rev** 1990 Jul;97(3):404–31

Connectionism and the learning of probabilistic concepts. Shanks DR. **Q J Exp Psychol [A]** 1990 May;42(2):209–37

Concept formation in non-verbal categorization tasks in brain-damaged patients with and without aphasia. Hjelmquist EK. **Scand J Psychol** 1989;30(4):243–54

The concept of disease: its evolution in medical students. Stefan MD, et al. **Soc Sci Med** 1989;29(7):791–2

[A closer look at 'Reciprocal concept formation of older and younger subjects' (letter)] Knipescheer CP, et al. **Tijdschr Gerontol Geriatr** 1990 Apr;21(2):85–6 **(Dut)**

[Attention and concept formation in Parkinson disease] Spatt J. **Wien Klin Wochenschr** 1990 Jul 13;102(14):413–5 **(Ger)**

DRUG EFFECTS

Reduced performance in tests of memory and visual abstraction in seamen exposed to industrial solvents. Moen BE, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):114–9

Analogical reasoning abilities of recovering alcoholics. Gardner MK, et al. **Alcoholism (N Y)** 1989 Aug; 13(4):508–11

The effects of repeating a recognition test in lorazepam-induced amnesia: evidence for impaired contextual memory as a cause of amnesia. Brown J, et al. **Q J Exp Psychol [A]** 1990 May;42(2):279–90

PHYSIOLOGY

Impaired verbal reasoning and constructional apraxia in subjects with right hemisphere damage. Benowitz LI, et al. **Neuropsychologia** 1990;28(3):231–41

[A study on the formation and application of thought concepts among schizophrenics] Jiang CQ. **Chuag Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Jun; 22(3):171–3, backcover (Eng. Abstr.) **(Chi)**

[Changes in the EEG frequency spectrum in various phases of mental stress] Mecklinger A, et al. **Z Exp Angew Psychol** 1989;36(3):453–75 (Eng. Abstr.) **(Ger)**

CONCEPTION see **FERTILIZATION**

CONCHAE NASALES see **TURBINATES**

CONCURRENT REVIEW see under **UTILIZATION REVIEW**

CONCURRENT STUDIES see **COHORT STUDIES**

CONDIMENTS

see related
GINSENG

Tumour reducing and anticarcinogenic activity of selected spices. Unnikrishnan MC, et al. **Cancer Lett** 1990 May 15; 51(1):85–9

Cinnamon oil: kids use it to get high [letter; comment] Schwartz RH. **Clin Pediatr (Phila)** 1990 Mar;29(3):196 Comment on: Clin Pediatr (Phila) 1989 Jun;28(6):276.

Patch tests with some spices. Bruynzeel DP, et al. **Dermatol Clin** 1990 Jan;8(1):85–7

Utilization of tropical foods: sugars, spices and stimulants. **FAO Food Nutr Pap** 1989;47(6):1–62

Influence of spices and spice principles on hepatic mixed function oxygenase system in rats. Sambaiah K, et al. **Indian J Biochem Biophys** 1989 Aug;26(4):254–8

Inhibitory effects of selected Turkish spices and oregano components on some foodborne fungi. Akgül A, et al. **Int J Food Microbiol** 1988 May;6(3):263–8

Study of the Bacillus flora of Nigerian spices. Antai SP. **Int J Food Microbiol** 1988 May;6(3):259–61

Inhibition of cytotoxic drug-induced vomiting in suncus by a ginger constituent. Yamahara J, et al. **J Ethnopharmacol** 1989 Dec;27(3):353–5

Sugar and spice: similarities and sensory attributes. Blank DM, et al. **Nurs Res** 1990 Sep–Oct;39(5):290–3

Can sodium contents of foods be reduced by adding flavors? Studies with beef broth. Tuorila H, et al. **Physiol Behav** 1990 Apr;47(4):709–12

Spices: antiplatelet activity and prostanoid metabolism. Srivastava KC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Dec; 38(4):255–66 (94 ref.)

Cinnamon oil abuse by adolescents. Perry PA, et al. **Vet Hum Toxicol** 1990 Apr;32(2):162–4

[Comparison of bacteriostatic ability of oleum of Perilla frutescens (L.) Britt., Cinnamomum cassia Presl and Nipagin A] Zhang Z, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb;15(2):95–7, 126–7 (Eng. Abstr.) **(Chi)**

[Spices as medicine. Part 1: Ethereal oils] Zimmermann W. **Fortschr Med** 1990 Apr 30;108(13):22, 24 **(Ger)**

[Personal experiences with naturopathy. Spices as medicine. 2: Mustard oil drugs] Zimmermann W. **Fortschr Med** 1990 May 20;108(15):20–2 **(Ger)**

ADVERSE EFFECTS

Bay leaf impaction [letter] Belitsos NJ. **Ann Intern Med** 1990 Sep 15;113(6):483–4

Bay leaf impaction in the esophagus and hypopharynx. Buto SK, et al. **Ann Intern Med** 1990 Jul 1;113(1):82–3

Sensitivity reaction to the cinnamonaldehyde component of toothpaste. Lamey PJ, et al. **Br Dent J** 1990 Feb 10; 168(3):115–8

Communicable disease report. April to June 1989. The PHLS Communicable Disease Surveillance Centre. **Community Med** 1989 Nov;11(4):376–83

Contact allergy to spices. van den Akker TW, et al. **Contact Dermatitis** 1990 May;22(5):267–72

Contact and systemic contact-type dermatitis to spices. Dooms-Goossens A, et al. **Dermatol Clin** 1990 Jan; 8(1):89–93

[Spices and the stomach] Wolff G. **Z Arztl Fortbild (Jena)** 1990;84(3):75–6 (13 ref.) **(Ger)**

ANALYSIS

Antitumor-promoting activity of sesquiterpene isolated from an herbal spice. Matsumoto T, et al. **Basic Life Sci** 1990; 52:423–7

Inorganic chemical approaches to pharmacognosy. V. X-ray fluorescence spectrometric studies on the inorganic constituents of crude drugs. (3). On the cinnamomi cortex. Mino Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Mar; 38(3):709–13

Gastrointestinal motility enhancing effect of ginger and its active constituents. Yamahara J, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb;38(2):430–1

Nutmeg oil: identification and quantitation of its most active constituents as inhibitors of platelet aggregation. Janssens J, et al. **J Ethnopharmacol** 1990 May;29(2):179–88

Concentration of selected heavy metals in spices, dry fruits and plant nuts. Sattar A, et al. **Plant Foods Hum Nutr** 1989 Sep;39(3):279–86

POISONING

Spice as a variety of death—black pepper can be lethal. Mack RB. **N C Med J** 1989 Nov;50(11):627–9

RADIATION EFFECTS

Identification of irradiated pepper with the level of hydrogen gas as a probe. Dohmaru T, et al. **Radiat Res** 1989 Dec; 120(3):552–5

STANDARDS

Methods for detection of irradiation of spices. Sjöberg AM, et al. **Z Lebensm Unters Forsch** 1990 Feb;190(2):99–103

TOXICITY

Clastogenic effects produced by black pepper in mitotic cells of Vicia faba. Abraham S, et al. **Mutat Res** 1989 Oct; 224(2):281–5

CONDITIONING (PSYCHOLOGY)

Conditioning: a new approach to immunotherapy. Ghanta VK, et al. **Cancer Res** 1990 Jul 15;50(14):4295–9

Conditioned taste aversion in lesser bandicoot rat, Bandicota bengalensis. Parshad VR. **Indian J Exp Biol** 1989 Nov; 27(11):980–2

Observational conditioning of fear to fear-relevant versus fear-irrelevant stimuli in rhesus monkeys. Cook M, et al. **J Abnorm Psychol** 1989 Nov;98(4):448–59

Food aversion learning in sheep: persistence of conditioned taste aversions to palatable shrubs (Cercocarpus montanus and Amelanchier alnifolia). Burritt EA, et al. **J Anim Sci** 1990 Apr;68(4):1003–7

Unification of models for choice between delayed reinforcers. Killeen PR, et al. **J Exp Anal Behav** 1990 Jan;53(1):189–200

Behavioral inspiratory inhibition: inactivated and activated respiratory cells. Orem J. **J Neurophysiol** 1989 Nov; 62(5):1069–78

Midazolam induces amnesia in a simple, one-trial, maze-learning task in young chicks. Gilbert DB, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):439–42

A contingent, conditioned suppression of eating following chronic benzodiazepine-induced hyperphagia. Hunt T, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):373–8

Conditioned flavor preferences in young children. Birch LL, et al. **Physiol Behav** 1990 Mar;47(3):501–5

Behavioral determination of critical flicker fusion in dogs. Coile DC, et al. **Physiol Behav** 1989 Jun;45(6):1087–92

Investigating the impact of deconditioning anxiety on weight loss. Nagler W, et al. **Psychol Rep** 1990 Apr;66(2):595–600

DRUG EFFECTS

Effects of HR-592, a new derivative of indole, on conditioned behavior. Ichimaru Y, et al. **Acta Med Okayama** 1990 Feb;44(1):35–9

Conditioning and experiential factors affecting the development of sensitization to apomorphine. Mattingly BA, et al. **Behav Neurosci** 1989 Dec;103(6):1311–7

Enhanced sensitivity to behavioral effects of naltrexone in rats. Schindler CW, et al. **J Pharmacol Exp Ther** 1990 Jan; 252(1):8–14

Disruption of performance under a titrating matching-to-sample schedule of reinforcement by drugs of abuse. Wenger GR, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):258–69

Enhancement of naloxone-induced analgesia by pretreatment with morphine. Cappell H, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):425–7

Postconditioning effects of magnesium on cocaine conditioned place preference in mice. Lawley SI, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):531–8

Magnesium-induced conditioned place preference in mice. Lawley SI, et al. **Pharmacol Biochem Behav** 1990 Jul; 36(3):539–45

Nicotine-induced conditioned taste aversions are enhanced in rats with lesions of the area postrema. Ossenkopp KP, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):625–30

Pimozide enhances the aversiveness of quinine solution. Parker LA, et al. **Pharmacol Biochem Behav** 1990 Jul; 36(3):653–9

Isodirectional conditioning effects of d-amphetamine and pentobarbital on schedule-controlled operant behavior in pigeons. Watanabe S. **Pharmacol Biochem Behav** 1990 May; 36(1):157–61

Effects of non-psychotropic drugs on conditioned behavior of cats. Yen-Koo HC, et al. **Toxicol Ind Health** 1989 Dec; 5(6):949–52

PHYSIOLOGY

Stimulus modality effects on transformations of conditioned enhancement and conditioned suppression in rats. Walasek G, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(5):215–38

Conditioned taste aversion elicited by intracerebral administration of drugs. Bureš J, et al. **Acta Physiol Hung** 1989;74(1):77–93 (85 ref.)

The biology of conditioning. Zieliński K. **Acta Physiol Pol** 1989 Mar–Apr;40(2):145–55 (34 ref.)

Premotor cortex and conditional motor learning in man. Halsband U, et al. **Brain** 1990 Feb;113 (Pt 1):207–22

The Pavlovian conditioning of IL-1-induced glucocorticoid secretion. Dyck DG, et al. **Brain Behav Immun** 1990 Jun; 4(2):93–104

Conditioned enhancement of skin allografts in mice. Gorczynski RM. **Brain Behav Immun** 1990 Jun;4(2):85–92

The tegmental pedunculopontine nucleus: a brain-stem output of the limbic system critical for the conditioned place preferences produced by morphine and amphetamine. Bechara A, et al. **J Neurosci** 1989 Oct;9(10):3400–9

Synaptic plasticity in fear conditioning circuits: induction of LTP in the lateral nucleus of the amygdala by stimulation of the medial geniculate body. Clugnet MC, et al. **J Neurosci** 1990 Aug;10(8):2818–24

The amygdala central nucleus and appetitive Pavlovian conditioning: lesions impair one class of conditioned behavior. Gallagher M, et al. **J Neurosci** 1990 Jun; 10(6):1906–11

Enhanced behavioral conditioning to context and impaired behavioral and neuroendocrine responses to conditioned stimuli following ceruleocortical noradrenergic lesions: support for an attentional hypothesis of central noradrenergic function. Selden NR, et al. **J Neurosci** 1990 Feb;10(2):531–9

Blocking of acquisition but not expression of conditioned fear-potentiated startle by NMDA antagonists in the amygdala. Miserendino MJ, et al. **Nature** 1990 Jun 21; 345(6277):716–8

Receptor subtype-specific dopaminergic agents and conditioned behavior. Beninger RJ, et al. **Neurosci Biobehav Rev** 1989 Summer–Fall;13(2–3):113–22 (82 ref.)

Evidence for the rewarding effects of ethanol using the conditioned place preference method. Bozarth MA. **Pharmacol Biochem Behav** 1990 Feb;35(2):485–7

Blockade by diazepam of conditioned fear-induced activation of rat mesoprefrontal dopamine neurons. Ida Y, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):477–9

Entrainment of activity to multiple feeding times in rats with suprachiasmatic lesions. Stephan FK. **Physiol Behav** 1989 Sep;46(3):489–97

Circadian behavioral rhythms during various light-intensity cycles in rats. Usui S, et al. **Physiol Behav** 1989 Sep; 46(3):521–8

[Effect of electroshock on learning-dependent long-term potentiation in rat hippocampal CA3 area] Yu CY, et al. **Sheng Li Hsueh Pao** 1990 Apr;42(2):194–7 (Eng. Abstr.) **(Chi)**

CONDITIONING, CLASSICAL

The application of learning theory to driving confidence: the effect of age and the impact of random breath testing. Job RF. **Accid Anal Prev** 1990 Apr;22(2):97–107

Reactivity to alcohol cues and induced moods in alcoholics. Litt MD, et al. **Addict Behav** 1990;15(2):137–46

Conditioned opponent responses: effects of placebo challenge in alcoholic subjects. McCaul ME, et al. **Alcoholism (N Y)** 1989 Oct;13(5):631–5

Goal-tracking behavior in the pond snail, Lymnaea stagnalis. Kemenes G, et al. **Behav Neural Biol** 1989 Sep;52(2):260–70

Spatial contiguity, not cue-to-consequence, is the issue in taste-potentiated noise-illness associations: comment on Holder, Bermudez-Rattoni, and Garcia (1988). Ellins SR, et al. **Behav Neurosci** 1990 Feb;104(1):230–2

The conditioned stimulus-unconditioned stimulus-feedback feeding sequence: reply to Ellins, von Kluge, and Cramer (1990). Holder MD, et al. **Behav Neurosci** 1990 Feb; 104(1):233–4

Reflex facilitation of the rabbit nictitating membrane response by an auditory stimulus as a function of interstimulus interval. Weisz DJ, et al. **Behav Neurosci** 1990 Feb; 104(1):11–20

An associative process maintains reflex facilitation of the unconditioned nictitating membrane response during the early stages of training. Weisz DJ, et al. **Behav Neurosci** 1990 Feb;104(1):21–7

UCS revaluation and conditioning models of acquired fears. Davey GC. **Behav Res Ther** 1989;27(5):521–8 (50 ref.)

The effects of cued UCS rehearsal on the retention of differential 'fear' conditioning: an experimental analogue of the 'worry' process. Jones T, et al. **Behav Res Ther** 1990; 28(2):159–64

Conditioning experiences and phobias. Merckelbach H, et al. **Behav Res Ther** 1989;27(6):657–62

Classical conditioning model of panic disorder: response to Wolpe and Rowan [comment] Sanderson WC, et al. **Behav Res Ther** 1989;27(5):581–4 Comment on: Behav Res Ther 1988;26(6):441–50.

Adaptively timed conditioned responses and the cerebellum: a neural network approach. Moore JW, et al. **Biol Cybern** 1989;62(1):17–28

Awareness of the CS-UCS contingency and classical conditioning of skin conductance responses with olfactory CSs. Marinkovic K, et al. **Biol Psychol** 1989 Aug; 29(1):39–60

Conditioned learning in alcohol dependence: implications for cue exposure treatment. Drummond DC, et al. **Br J Addict** 1990 Jun;85(6):725–43 (110 ref.)

The Kamin blocking effect, incidental learning and psychoticism. Jones SH, et al. **Br J Psychol** 1990 Feb;81 (Pt 1):95–109

Antiparkinsonian effects of caffeine depend upon pavlovian drug conditioning processes. Carey RJ. **Brain Res** 1990 Jun 4;518(1–2):186–92

Nausea in bulimic women in response to a palatable food. Broberg DJ, et al. **J Abnorm Psychol** 1990 May;99(2):183–8

Fear imagery and the startle-probe reflex. Vrana SR, et al. **J Abnorm Psychol** 1990 May;99(2):189–97

Conditioned diminution of brain stimulation hyperphagia. Siegel SF. **J Am Coll Nutr** 1989 Dec;8(6):602–7

Classical conditioning of meaning—II. A replication and triplet associative extension. Cicero SD, et al. **J Behav Ther Exp Psychiatry** 1989 Sep;20(3):197–202

The treatment of persistent vomiting through shaping and contingency management. Dahlquist LM. **J Behav Ther Exp Psychiatry** 1990 Mar;21(1):77–80

Classical conditioning of meaning—I. A replication and higher-order extension. Tryon WW, et al. **J Behav Ther Exp Psychiatry** 1989 Jun;20(2):137–42

Social blockade of taste-aversion learning in Norway rats

(Rattus norvegicus): is it a social phenomenon? Heyes CM, et al. **J Comp Psychol** 1990 Mar;104(1):82–7
Development of defensive burying in Rattus norvegicus: experience and defensive responses. Pinel JP, et al. **J Comp Psychol** 1989 Dec;103(4):359–65
Timeout from concurrent schedules. Dunn R. **J Exp Anal Behav** 1990 Jan;53(1):163–74
Choice with uncertain outcomes: conditioned reinforcement effects. Dunn R, et al. **J Exp Anal Behav** 1990 Mar; 53(2):201–18
Choice between delayed reinforcers and fixed–ratio schedules requiring forceful responding. Mazur JE, et al. **J Exp Anal Behav** 1990 Jan;53(1):175–87
Alternative reinforcement increases resistance to change: Pavlovian or operant contingencies? Nevin JA, et al. **J Exp Anal Behav** 1990 May;53(3):359–79
Responding of pigeons under variable–interval schedules of signaled–delayed reinforcement: effects of delay–signal duration. Schaal DW, et al. **J Exp Anal Behav** 1990 Jan; 53(1):103–21
Suboptimal choice in a percentage–reinforcement procedure: effects of signal condition and terminal–link length. Spetch ML, et al. **J Exp Anal Behav** 1990 Mar;53(2):219–34
Odor from rats tasting a signal of illness. Batsell WR Jr, et al. **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):193–9
Duration of signals for intertrial reinforcement and nonreinforcement in random control procedures. Cooper LD, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):14–26
Temporal specificity of fear conditioning: effects of different conditioned stimulus–unconditioned stimulus intervals on the fear–potentiated startle effect. Davis M, et al. **J Exp Psychol [Anim Behav]** 1989 Oct;15(4):295–310
Context–specific conditioning in the conditioned–emotional–response procedure. Hall G, et al. **J Exp Psychol [Anim Behav]** 1990 Jul;16(3):271–8
Transfer of negative occasion setting and conditioned inhibition across conditioned and unconditioned stimuli. Holland PC. **J Exp Psychol [Anim Behav]** 1989 Oct; 15(4):311–28
Stimulus generalization as a function of stimulus novelty and familiarity in rats. Honey RC. **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):178–84
Potentiation of the acoustic startle response by a conditioned stimulus paired with acoustic startle stimulus in rats. Leaton RN, et al. **J Exp Psychol [Anim Behav]** 1990 Jul; 16(3):279–87
Role of fear in mediating shuttle escape learning deficit produced by inescapable shock. Maier SF. **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):137–49
Modeling signal features of escape response: effects of cessation conditioning in "learned helplessness" paradigm. Minor TR, et al. **J Exp Psychol [Anim Behav]** 1990 Apr; 16(2):123–36
Configural associations in discrimination learning. Pearce JM, et al. **J Exp Psychol [Anim Behav]** 1990 Jul;16(3):250–61
The role of information about the response–outcome relation in instrumental discrimination learning. Reacorla RA. **J Exp Psychol [Anim Behav]** 1990 Jul;16(3):262–70
Preference as a function of absolute response durations. Shimp CP, et al. **J Exp Psychol [Anim Behav]** 1990 Jul; 16(3):288–97
Expectancies of reinforcer location and quality as cues for a conditional discrimination in pigeons. Williams DA, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):3–13
Pavlov and the Pavlovians in the laboratory. Windholz G. **J Hist Behav Sci** 1990 Jan;26(1):64–74
Can an immune response be conditioned? [news] Newman ME. **J Natl Cancer Inst** 1990 Oct 3;82(19):1534–5
Norepinephrine and learning–induced plasticity in infant rat olfactory system. Sullivan RM, et al. **J Neurosci** 1989 Nov; 9(11):3998–4006
Observation, objectivity, and the conflict of ideas. Furedy JJ. **Pavlov J Biol Sci** 1990 Jan–Mar;25(1):29–31
Analysis of thought dissociation in schizophrenia on the basis of Wedensky–Pavlov phasic states. Zaimov K. **Pavlov J Biol Sci** 1989 Oct–Dec;24(4):138–42
Neuropsychological analysis of some dynamic aspects of the sexual drive in men and women. Zaimov K. **Pavlov J Biol Sci** 1990 Jan–Mar;25(1):14–9
Reciprocal unconditional–conditional organization of the fundamental emotions and paraadaptive personality reactions. Zaimov K. **Pavlov J Biol Sci** 1989 Oct–Dec; 24(4):143–9
Ideational conditioning: bridging the cognitive–behaviourist divide. Griffiths MD, et al. **Percept Mot Skills** 1990 Feb; 70(1):123–8 (31 ref.)
Reinstatement by caffeine of an extinguished conditioned dopaminergic drug response. Carey RJ. **Pharmacol Biochem Behav** 1990 May;36(1):127–32
Discontinuation of diazepam and sensitivity to a shock signal: fear conditioning prior to drug treatment. Davidson TL. **Pharmacol Biochem Behav** 1990 Jul;36(3):691–4
The long–term effects of diazepam and pentylenetetrazol on the potentiated startle response. Hijzen TH, et al. **Pharmacol Biochem Behav** 1990 May;36(1):35–8
Effect of reserpine on retention of the conditioned NK cell response. Hiramoto R, et al. **Pharmacol Biochem Behav** 1990 May;36(1):51–6
Preference conditioning by concurrent diets with delayed proportional reinforcement. Baker BJ, et al. **Physiol Behav** 1989 Oct;46(4):585–90
Conditioned reversal of reactions to normally avoided tastes. Breslin PA, et al. **Physiol Behav** 1990 Mar;47(3):535–8
Flavor preferences conditioned by intragastric polycose infusions: a detailed analysis using an electronic esophagus preparation. Elizalde G, et al. **Physiol Behav** 1990 Jan; 47(1):63–77
Contraction of neuronal branching volume: an anatomic correlate of Pavlovian conditioning. Alkon DL, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1611–4
Classical conditioning of the Aplysia siphon–withdrawal reflex exhibits response specificity. Hawkins RD, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7620–4
Transformation of siphon responses during conditioning of Aplysia suggests a model of primitive stimulus–response association. Walters ET. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7616–9
Apomorphine–like effect evoked by exposure to environmental cues associated with drug administration. Jodogne MC. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(1):113–20
Post training REMs coincident auditory stimulation enhances memory in humans. Smith C, et al. **Psychiatr J Univ Ott** 1990 Jun;15(2):85–90
Classically conditioned cardiac responses in "old" and "young" Fischer 344 rats. Buchanan SL, et al. **Psychol Aging** 1988 Mar;3(1):51–8
The role of contingency in classical conditioning. Papini MR, et al. **Psychol Rev** 1990 Jul;97(3):396–403 (90 ref.)
Inhibitory discriminative control is specific to both the response and the reinforcer. Bonardi C. **Q J Exp Psychol [B]** 1989 Aug;41(3):225–42
Auditory food cue conditioning: effects of spatial contiguity and taste quality. Ellins SR, et al. **Q J Exp Psychol [B]** 1990 Feb;42(1):73–86
A change of context can enhance performance of an aversive but not of an appetitive conditioned response. Kaye H, et al. **Q J Exp Psychol [B]** 1990 May;42(2):113–34
A role for stimulus generalization in conditional discrimination learning. Wilson PN, et al. **Q J Exp Psychol [B]** 1989 Aug;41(3):243–73
Selective transfer of responding in conditional discriminations. Wilson PN, et al. **Q J Exp Psychol [B]** 1990 Feb;42(1):41–58

DRUG EFFECTS

Effects of ethanol and physostigmine on reproduction of conditioned alimentary motor reflexes in cats—interaction with stress. Stodulka J. **Acta Univ Palacki Olomuc Fac Med** 1989;121:277–88
Central aromatic amines and behavior. III. Correlative analysis of conditioned approach behavior and brain levels of serotonin and catecholamines in monkeys. Wada JA, et al. **Arch Neurol** 1966 Feb;14(2):129–42
6–Hydroxydopamine lesions of the olfactory tubercle do not alter (+)–amphetamine–conditioned place preference. Clarke PB, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):185–8
Modulation of tolerance to the GABAA agonist THIP by environmental cues. Jodogne C, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):33–40
Behavioral analysis of the effects of benzodiazepine receptor ligands in the conditioned burying paradigm. Rohmer JG, et al. **Behav Brain Res** 1990 Apr 16;38(1):45–54
Delay–dependent impairment of reversal learning in rats treated with trimethyltin. Bushnell PJ. **Behav Neural Biol** 1990 Jul;54(1):75–89
Post–training systemic and intra–amygdala administration of the GABA–B agonist baclofen impairs retention. Castellano C, et al. **Behav Neural Biol** 1989 Sep;52(2):170–9
Is blockade of conditioned flavor aversions by chlorpheniramine the result of state dependency? Green KF. **Behav Neural Biol** 1990 Jul;54(1):56–62
Ontogenetic differences in the association of gustatory and tactile cues with lithium chloride and footshock. Hoffmann H, et al. **Behav Neural Biol** 1990 May;53(3):441–50
Characterization of a dose–response curve for nicotine–induced conditioned taste aversion in rats: relationship to elevation of plasma beta–endorphin concentration. Jensen RA, et al. **Behav Neural Biol** 1990 May;53(3):428–40
Effects of dose, interdose interval, and drug–signal parameters on morphine analgesic tolerance: implications for current theories of tolerance. Dafters R, et al. **Behav Neurosci** 1989 Oct;103(5):1082–90
Picrotoxin enhances latent extinction of conditioned fear. McGaugh JL, et al. **Behav Neurosci** 1990 Apr;104(2):264–7
Cholecystokinin conditioning in rats: ontogenetic determinants. Weller A, et al. **Behav Neurosci** 1990 Feb; 104(1):199–206
Tolerance to morphine "anorexia" is not contingent on experience with food while in the drugged state. Wolgin DL, et al. **Behav Neurosci** 1990 Jun;104(3):441–8
Effect of lithium chloride–induced aversion on appetitive and consummatory behavior. Wolgin DL, et al. **Behav Neurosci** 1990 Jun;104(3):438–40
High–dose oral naltrexone: aversive response in drug–naive rat. Mucha RF. **Biol Psychiatry** 1990 Mar 1;27(5):543–5
Suppression of conditioned avoidance behavior by the local application of (–)sulpiride into the ventral, but not the dorsal, striatum of the rat. Wadenberg ML, et al. **Biol Psychiatry** 1990 Aug 15;28(4):297–307
Pavlovian conditioning of pain regulation: insights from pharmacological conditioning with morphine and naloxone. Greeley J. **Biol Psychol** 1989 Feb;28(1):41–65 (85 ref.)
The influence of dexamethasone on behaviorally conditioned immunomodulation and plasma corticosterone. Kusnecov AW, et al. **Brain Behav Immun** 1990 Mar;4(1):50–66
Naltrexone blocks the expression of the conditioned elevation of natural killer cell activity in BALB/c mice. Solvason HB, et al. **Brain Behav Immun** 1989 Sep;3(3):247–62
The reserpine–sensitive dopamine pool mediates (+)–amphetamine–conditioned reward in the place preference paradigm. Hiroi N, et al. **Brain Res** 1990 Feb 26;510(1):33–42
Dissociating the effects of altered dopaminergic function on performance and learning. Beninger RJ. **Brain Res Bull** 1989 Oct–Nov;23(4–5):365–71 (35 ref.)
The use of place conditioning in studying the neuropharmacology of drug reinforcement. Hoffman DC. **Brain Res Bull** 1989 Oct–Nov;23(4–5):373–87
Dopamine antagonists produce an age–dependent increase in the responding of the young chick. Zolman JF, et al. **Dev Psychobiol** 1990 Mar;23(2):141–55
Effects of d–amphetamine, diazepam, and pentobarbital on the schedule–controlled pecking and locomotor activity of pigeons. Bordi F, et al. **J Exp Anal Behav** 1990 Jan; 53(1):87–102
Discriminative properties of morphine that modulate associations between tastes and lithium chloride. Martin GM, et al. **J Exp Psychol [Anim Behav]** 1990 Jan; 16(1):56–68
Conditioning of morphine–induced locomotor activity and stereotyped behaviour in rats. Walter S, et al. **J Neural Transm Gen Sect** 1989;78(3):231–47
Conditioned place preference in the corral: a procedure for measuring reinforcing properties of drugs. Hasenöhrl RU, et al. **J Neurosci Methods** 1989 Nov;30(2):141–6
The influence of an enkephalin derivative, DAGO, on the behavior and activity of neurons of the neocortex and hippocampus of rabbits during the development of defensive and inhibitory conditioned reflexes. Shul'gina GI, et al. **Neurosci Behav Physiol** 1990 Mar–Apr;20(2):156–66
Characterization of dynorphin A(1–17)–induced place preference in rats. Iwamoto ET. **NIDA Res Monogr** 1989; 95:308–9
Pavlovian conditioning to morphine in opiate abusers. Newlin DB, et al. **NIDA Res Monogr** 1989;95:390–1
Discrimination of the benzodiazepine receptor antagonist Ro 15–1788 using the conditioned taste aversion procedure. Rowan GA, et al. **NIDA Res Monogr** 1989;95:536
Atropine abolishes the differential heart responses to conditional stimuli of various foods. Kostarczyk E. **Pavlov J Biol Sci** 1989 Oct–Dec;24(4):156–9
Studies on D1 and D2 dopamine receptor involvement in conditioned taste aversions. Asin KE, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1033–41
Conditioned aversion after delay place conditioning with amphetamine. Fudala PJ, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):89–92
The effects of selective dopamine D1 or D2 receptor antagonists on the establishment of agonist–induced place conditioning in rats. Hoffman DC, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):273–9
Pretest beta–endorphin and epinephrine, but not oxotremorine, reverse retrograde interference of a conditioned emotional response in mice. Izquierdo I, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):545–8
PCP and conditioned place preferences. Marglin SH, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):281–3
Interaction of haloperidol and area postrema lesions in the disruption of amphetamine–induced conditioned taste aversion learning in rats. Rabin BM, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):847–51
Effects of agonists and antagonists at the GABA/benzodiazepine receptor on conditioned suppression in rats. Shephard RA, et al. **Pharmacol Biochem Behav** 1990 May;36(1):39–43
One trial conditioning with apomorphine is blocked by cycloheximide. Silverman PB, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):663–4
Conditioned taste avoidance induced by lactose ingestion in adult rats. DiBattista D. **Physiol Behav** 1990 Feb; 47(2):253–7
Flavor preferences conditioned by intragastric fat infusions in rats. Lucas F, et al. **Physiol Behav** 1989 Sep;46(3):403–12
The long–term effects of diazepam, lorazepam, and buspirone on behavioral suppression by a shock signal. Davidson TL. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):223–36
Role of D–1 and D–2 receptor stimulation in sensitization to amphetamine–induced circling behavior and in expression and extinction of the Pavlovian conditioned response. Drew KL, et al. **Psychopharmacology (Berl)** 1990; 101(4):465–71
Conditioned stimulus control of morphine hyperthermia. Schwarz KS, et al. **Psychopharmacology (Berl)** 1990; 101(1):77–84
[Experimental study of behavior and cerebral morphology of rat pups generated by fluorotic female rat] Liu WX. **Chung–hua Ping Li Hsueh Tsa Chih** 1989 Dec;18(4):290–2 (Eng. Abstr.) **(Chi)**
[The effect of alpha–tocopherol on conditioned reflex activity in adrenaline–induced myocardial dystrophy in rats] Bekbolotova AK, et al. **Biull Eksp Biol Med** 1990 Mar;

109(3):211–3 (Eng. Abstr.) (Rus)
[The effect of piracetam and nicergoline on conditioned-reflex memory under conditions of extreme exposure] Pragina LL, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):8–10 (Eng. Abstr.) (Rus)
[Avoidance conditioned-reflex behavior in rats chronically administered leucine enkephalin and its synthetic tetrapeptide analog into the neostriatum] Suvorov NF, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):745–51 (Eng. Abstr.) (Rus)
[The effect of acetylcholine and cholinergic transmission blockers on the neuronal impulse activity of the cat motor cortex in a conditioned reflex] Storozhuk VM, et al. **Neirofiziologiia** 1989;21(5):579–89 (Eng. Abstr.) (Rus)
[The effect of a peptide-containing extract of the right hemispheric cortex on the recovery of conditioned reflex activity and on the level of neuromediators in the brain structures of rats after a unilateral frontal lobectomy] Romanova GA, et al. **Patol Fiziol Eksp Ter** 1990 May–Jun; (3):8–11 (Eng. Abstr.) (Rus)
[The effect of a beta-endorphin conjugate on conditioned reflex activity in cats (letter)] Protsenko AL. **Zh Evol Biokhim Fiziol** 1989 Sep–Oct;25(5):684–6 (Rus)
[Differences in the effect of diazepam on realized and non-realized conditioned emotional reactions] Kostandov EA, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):103–8 (Eng. Abstr.) (Rus)
[A comparison of the effects of single and chronic microinjections of GABA and picrotoxin into the caudate nucleus on the conditioned reflexes of dogs] Iakimovskiĭ AF. **Zh Vyssh Nerv Deiat** 1990 May–Jun;40(3):435–42 (Eng. Abstr.) (Rus)
[The effect of quinolinic acid, an endogenous neurotoxin, on the conditioned passive-avoidance reflex in rats] Kozlovskiĭ VL, et al. **Zh Vyssh Nerv Deiat** 1990 Jan–Feb; 40(1):66–70 (Rus)
[Effect of the microiontophoretic application of acetylcholine on the formation of conditioned reactions in motor cortex neurons] Mednikova IuS. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug;39(4):691–8 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Effect of after-discharge EEG patterns on performance and latency of the conditioned avoidance response in hippocampally kindled cats. Majkowski J, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(6):327–36
Conditioned meal initiation in young children. Birch LL, et al. **Appetite** 1989 Oct;13(2):105–13
Discriminative long-term retention of rapidly induced multiunit changes in the hippocampus, medial geniculate and auditory cortex. Edeline JM, et al. **Behav Brain Res** 1990 Jul 9;39(2):145–55
Classical conditioning of the eyeblink reflex in the decerebrate-decerebellate rabbit. Kelly TM, et al. **Behav Brain Res** 1990 Apr 16;38(1):7–18
Conditioned orienting (alpha) and delayed behavioral and evoked neural responses during classical conditioning. Korhonen T, et al. **Behav Brain Res** 1989 Sep 1; 34(3):179–97
Deficits in conditioned heart rate and taste aversion in area postrema-lesioned rats. Kosten T, et al. **Behav Brain Res** 1989 Oct 1;35(1):9–21
The interstimulus interval and classical conditioning in the marine snail Hermissenda crassicornis. Lederhendler II, et al. **Behav Brain Res** 1989 Oct 1;35(1):75–80
Forebrain monoamines and associative learning: III. The US pre-exposure effect. Rickert EJ, et al. **Behav Brain Res** 1989 Nov 1;35(2):147–52
Undernutrition during the brain growth period of the rat significantly delays the development of processes mediating Pavlovian trace conditioning. Rudy JW, et al. **Behav Neural Biol** 1990 May;53(3):307–20
Learning of physiological responses: I. Habituation, sensitization, and classical conditioning. Dworkin BR, et al. **Behav Neurosci** 1990 Apr;104(2):298–319
Associative learning and memory for an antinociceptive response in the spinalized rat. Grau JW, et al. **Behav Neurosci** 1990 Jun;104(3):489–94
Behavioral and neural characteristics of short-latency and long-latency conditioned responses in cats. Korhonen T, et al. **Behav Neurosci** 1989 Oct;103(5):944–55
Electrical stimulation of brainstem nuclei: elicitation, modification, and conditioning of the rabbit nictitating membrane response. Nowak AJ, et al. **Behav Neurosci** 1990 Feb;104(1):4–10
Correlations between paradoxical sleep and shuttle-box conditioning in rats. Portell-Cortés I, et al. **Behav Neurosci** 1989 Oct;103(5):984–90
Conditional stimulus probability and activity of hippocampal, cingulate cortical, and limbic thalamic neurons during avoidance conditioning in rabbits. Stolar N, et al. **Behav Neurosci** 1989 Oct;103(5):919–34
Immunomodulation by behavioural conditioning. Kusnecov A, et al. **Biol Psychol** 1989 Feb;28(1):25–39 (75 ref.)
Dopamine receptors mediate drug-induced but not Pavlovian conditioned contralateral rotation in the unilateral 6-OHDA animal model. Carey RJ. **Brain Res** 1990 May 7;515(1–2):292–8
Monoaminergic activity at the level of the hypothalamus and striatum: relationship to anticipated feeding and pancreatic insulin responses. Holmes LJ, et al. **Brain Res** 1989 Sep 4;496(1–2):204–10
Lesions of the cerebellar interpositus nucleus abolish both nictitating membrane and eyelid EMG conditioned responses. Lavond DG, et al. **Brain Res** 1990 Apr 30; 514(2):238–48
Cerebellar vermis: essential for classically conditioned bradycardia in the rat. Supple WF Jr, et al. **Brain Res** 1990 Feb 12;509(1):17–23
Olfactory associative conditioning in infant rats with brain stimulation as reward. I. Neurobehavioral consequences. Wilson DA, et al. **Brain Res Dev Brain Res** 1990 May 1; 53(2):215–21
Effect of brain lesions on conditioned cortical electropotentials. Chow KL, et al. **Electroencephalogr Clin Neurophysiol** 1966 Apr; 20(4):357–69
Learning-induced afterhyperpolarization reductions in hippocampus are specific for cell type and potassium conductance. de Jonge MC, et al. **Exp Brain Res** 1990; 80(3):456–62
Retention of a backward classically conditioned reflex response in spinal cat. Hoover JE, et al. **Exp Brain Res** 1989;77(3):621–7
Pre- and post-training lesions of the intermediate medial hyperstriatum ventrale and passive avoidance learning in the chick. Patterson TA, et al. **Exp Brain Res** 1990; 80(1):189–95
Fear conditioning, meaning, and belongingness: a selective association analysis. Hamm AO, et al. **J Abnorm Psychol** 1989 Nov;98(4):395–406
Identified facilitator neurons L29 and L28 are excited by cutaneous stimuli used in dishabituation, sensitization, and classical conditioning of Aplysia. Hawkins RD, et al. **J Neurosci** 1989 Dec;9(12):4236–45
The lateral amygdaloid nucleus: sensory interface of the amygdala in fear conditioning. LeDoux JE, et al. **J Neurosci** 1990 Apr;10(4):1062–9
Formation of new cortico-rubral synapses as a possible mechanism for classical conditioning mediated by the red nucleus in cat. Oda Y, et al. **J Physiol (Paris)** 1988–89; 83(3):207–16
The role of ependymin in the development of long lasting synaptic changes. Shashoua VE. **J Physiol (Paris)** 1988–89; 83(3):232–9
Model of classical conditioning on the isolated mollusk CNS. Babkina NV, et al. **Neurosci Behav Physiol** 1990 Jan–Feb; 20(1):1–4
Movement as a signal during elaboration of classical conditioned reflexes. Davydova EK. **Neurosci Behav Physiol** 1989 Jul–Aug;19(4):271–9
Functional conjugation of cerebral cortex neurons and signal meaning of the stimulus (based on hypothesis of informational switching-over of conditioned activity). Komissarov VI. **Neurosci Behav Physiol** 1989 Nov–Dec; 19(6):475–80
Influence of destruction of the septum pellucidum on time interval estimation. Mering TA. **Neurosci Behav Physiol** 1989 Jul–Aug;19(4):287–93
Conditioned-reflex activity during the aging process in white rats. Mering TA. **Neurosci Behav Physiol** 1989 Jul–Aug; 19(4):294–300
Structural-functional organization of thalamic deficiency. Mukhin EI. **Neurosci Behav Physiol** 1990 Jan–Feb; 20(1):46–50
Optimization of reinforcing current parameters in motor-defensive conditioning in rats. Serebryanov OV, et al. **Neurosci Behav Physiol** 1989 Nov–Dec;19(6):480–2
Alimentary conditioned reflexes in dogs on activation and blockage of the cholinoreactive amygdaloid system. Shefer SI. **Neurosci Behav Physiol** 1989 Nov–Dec;19(6):459–65
Analysis of neuronal processes in activating systems of rat brain during development of the instrumental defense reflex. Slezin VI, et al. **Neurosci Behav Physiol** 1990 Mar–Apr;20(2):143–8
Sequential changes of potassium currents in Hermissenda type B photoreceptor during early stages of classical conditioning. Lederhendler II, et al. **Neurosci Lett** 1990 Mar 2;110(1–2):28–33
Brain neuron gene expression in the organization of innate and acquired behaviors. Sudakov KV. **Pavlov J Biol Sci** 1989 Oct–Dec;24(4):127–32
Sensitization to and conditioning with apomorphine in pigeons. Burg B, et al. **Pharmacol Biochem Behav** 1989 Sep; 34(1):59–64
Facilitation of sexual behaviors in the male rat in the presence of stimuli previously paired with systemic injections of morphine. Mitchell JB, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):367–72
Learned fear: a cause of arrhythmia onset in the presence of digitalis. Natelson BH, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):431–4
Animal models of anxiety based on classical conditioning: the conditioned emotional response (CER) and the fear-potentiated startle effect. Davis M. **Pharmacol Ther** 1990;47(2):147–65 (173 ref.)
Effects of medullary afferent vagal axotomy and area postrema lesions on short-term and long-term NaCl-induced taste aversion learning. Arnedo M, et al. **Physiol Behav** 1990 Jun;47(6):1067–74
Role of the cerebellum in an avoidance conditioning task in the rat. Dahhaoui M, et al. **Physiol Behav** 1990 Jun; 47(6):1175–80
Environment-specific conditioning produced by electrical stimulation of the lateral hypothalamus. Healey PA, et al. **Physiol Behav** 1989 Nov;46(5):907–12
Motion sickness in guinea pigs (Cavia porcellus) indexed by body rotation-induced conditioned taste aversions. Ossenkopp KP, et al. **Physiol Behav** 1990 Mar;47(3):467–70
Conditioned rotation: a behavioral analysis. Richards JB, et al. **Physiol Behav** 1990 Jun;47(6):1083–7
Increases in glutamate release and phosphoinositide metabolism associated with long-term potentiation and classical conditioning. Lynch MA, et al. **Prog Brain Res** 1990;83:251–6 (28 ref.)
No evidence of interference of hypocapnia/respiratory alkalosis with classical conditioning of electrodermal responses. van den Hout MA, et al. **Psychosom Med** 1990 Mar–Apr;52(2):143–8
Long-term synaptic changes produced by a cellular analog of classical conditioning in Aplysia. Buonomano DV, et al. **Science** 1990 Jul 27;249(4967):420–3
[Generalized nocifensive reflexes. I. Methodologic bases] Kmietzyk HJ. **EEG EMG** 1990 Mar;21(1):7–12 (Eng. Abstr.) (Ger)
[Effect of conditioned-reflex bilateral avoidance learning on lipid components of the rat brain] Bukbulatova LS, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):315–6 (Eng. Abstr.) (Rus)
[Analysis of the process of learning in the formation of the conditioned reflex of avoidance in rats] Chaichenko GM, et al. **Fiziol Zh** 1990 Mar–Apr;36(2):77–83 (Eng. Abstr.) (Rus)
[The participation of the amygdaloid complex in the conditioned reflex learning of dogs] Danilova LK. **Fiziol Zh SSSR** 1989 Dec;75(12):1664–71 (Eng. Abstr.) (Rus)
[An analysis of the participation of the microtubular apparatus of the neurons in the edible snail in forming a conditioned reflex analog] Kostin AI, et al. **Fiziol Zh SSSR** 1989 Oct;75(10):1459–62 (Rus)
[The modification of the licking pattern under classical conditioning conditions] Mamedov ZG, et al. **Fiziol Zh SSSR** 1990 Jan;76(1):121–4 (Rus)
[A comparative neurophysiological analysis of the trace processes in delayed spatial choice and in a trace conditioned reflex in rhesus macaques] Moiseeva LA. **Fiziol Zh SSSR** 1990 Mar;76(3):295–303 (Eng. Abstr.) (Rus)
[A method of experimental study of conditioned reflexes] Goncharov SI, et al. **Gig Sanit** 1989 Sep;(9):55–6 (Rus)
[Conditioned-reflex methods for the study of neurotoxic effects of environmental factors] Tairov OP, et al. **Gig Sanit** 1989 Jul;(7):42–5 (36 ref.) (Rus)
[The role of typological differences in animal behavior during the process of adaptation to extreme situations] Shlyk GG, et al. **Kosm Biol Aviakosm Med** 1990 Mar–Apr;24(2):38–41 (Eng. Abstr.) (Rus)
[The inhibitory effect of the presentation of extraneous stimuli on the neuronal impulse reactions of the cat parietal cortex in a conditioned reflex] Busel' BI, et al. **Neirofiziologiia** 1990;22(2):147–55 (Eng. Abstr.) (Rus)
[The evolutionary aspects of the dynamic acquisition of simple conditioned reflexes] Lokhov MI, et al. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr;26(2):213–20 (Eng. Abstr.) (Rus)
[The effect of estivation and hibernation on conditioned defensive reflexes in the suslik Citellus fulvus] Nuritdinov EN. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):559–60 (Rus)
[Electrophysiologic analysis of the conditioned reflex activity of cats against a background of thirst] Batuev AS, et al. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug;39(4):609–17 (Eng. Abstr.) (Rus)
[The role of signal and motivational links of a conditioned reflex in the initiation of instrumental movements in dogs] Chilingarian LI, et al. **Zh Vyssh Nerv Deiat** 1989 Sep–Oct; 39(5):851–60 (Eng. Abstr.) (Rus)
[Multineuronal cortical activity in dogs with a defensive instrumental conditioned reflex] Dolbakian EE, et al. **Zh Vyssh Nerv Deiat** 1989 Sep–Oct;39(5):898–905 (Eng. Abstr.) (Rus)
[Spectral-correlative characteristics of the EEG reactions preceding conditioned reflex motor reactions in dogs] Dumenko VN, et al. **Zh Vyssh Nerv Deiat** 1989 May–Jun; 39(3):458–68 (Eng. Abstr.) (Rus)
[Characteristics of the systemic organization of the cortical neurons in various forms of the manifestation of the conditioned reflex to time] Galashina AG, et al. **Zh Vyssh Nerv Deiat** 1989 May–Jun;39(3):469–77 (Eng. Abstr.) (Rus)
[The formation of a conditioned response on the electroexcitable membrane of the isolated LPa2 neuron] Grechenko TN. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug; 39(4):777–9 (Rus)
[Characteristics of the formation of conditioned responses in the isolated LPa3 neuron of the edible snail] Grechenko TN. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec;39(6):1170–2 (Rus)
[The phenomenon of conditioned suppression of the generation of action potentials in isolated neurons of the edible snail] Grechenko TN. **Zh Vyssh Nerv Deiat** 1989 Sep–Oct;39(5):949–57 (Eng. Abstr.) (Rus)
[Characteristics of the acquisition of conditioned food reflexes to color stimuli in cats] Kuraev GA, et al. **Zh Vyssh Nerv Deiat** 1990 Jan–Feb;40(1):169–72 (Rus)

[Conditioned food reflexes acquired on the basis of a dominant] Pavlygina RA, et al. **Zh Vysh Nerv Deiat** 1989 May-Jun;39(3):478-87 (Eng. Abstr.) **(Rus)**

[The dependence of hippocampal electrical activity on the probability of the reinforcement of a conditioned food stimulus] Preobrazhenskaia LA. **Zh Vysh Nerv Deiat** 1990 May-Jun;40(3):443-50 (Eng. Abstr.) **(Rus)**

[Regression analysis of an instrumental conditioned tentacular reflex in the edible snail] Stepanov II, et al. **Zh Vysh Nerv Deiat** 1989 Sep-Oct;39(5):890-7 (Eng. Abstr.) **(Rus)**

[The problems of the inheritance of conditioned reflexes in the school of I. P. Pavlov] Suvorov NF, et al. **Zh Vysh Nerv Deiat** 1990 Jan-Feb;40(1):3-14 (38 ref.) **(Rus)**

[Effect of extirpation of the sensorimotor cortex on the formation of conditioned reflexes to a complex signal in the ontogeny of the cat] Zotova EG, et al. **Zh Vysh Nerv Deiat** 1989 Jul-Aug;39(4):618-26 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Gamma radiation-induced conditioned taste aversions in rats: a comparison of the protective effects of area postrema lesions with differing doses of radiation. Ossenkopp KP, et al. **Physiol Behav** 1989 Oct;46(4):747-50

[The modification of the conditioned reflex activity in rats by millimeter radiation] Khromova SV, et al. **Zh Vysh Nerv Deiat** 1990 Mar-Apr;40(2):377-9 **(Rus)**

CONDITIONING, EYELID

Acquisition of the classically conditioned eyeblink response in humans over the life span. Solomon PR, et al. **Psychol Aging** 1989 Mar;4(1):34-41

Classical conditioning of the eyeblink response in the delay paradigm in adults aged 18-83 years. Woodruff-Pak DS, et al. **Psychol Aging** 1988 Sep;3(3):219-29

PHYSIOLOGY

Classical conditioning of the eyeblink reflex in the decerebrate-decerebellate rabbit. Kelly TM, et al. **Behav Brain Res** 1990 Apr 16;38(1):7-18

Classical nictitating membrane conditioning in rabbits with varying interstimulus intervals and direct activation of cerebellar mossy fibers as the CS. Steinmetz JE. **Behav Brain Res** 1990 May 7;38(2):97-108

Hippocampal lesions impair memory of short-delay conditioned eye blink in rabbits. Akase E, et al. **Behav Neurosci** 1989 Oct;103(5):935-43

Hippocampectomy disrupts trace eye-blink conditioning in rabbits. Moyer JR Jr, et al. **Behav Neurosci** 1990 Apr; 104(2):243-52

Response characteristics of neurons in the medial component of the medial geniculate nucleus during Pavlovian differential fear conditioning in rabbits. Supple WF Jr, et al. **Behav Neurosci** 1989 Dec;103(6):1276-86

CONDITIONING, OPERANT

Goal-tracking behavior in the pond snail, Lymnaea stagnalis. Kemenes G, et al. **Behav Neural Biol** 1989 Sep;52(2):260-70

Social contingency effects on subsequent perceptual-cognitive tasks in young infants. Dunham P, et al. **Child Dev** 1989 Dec;60(6):1486-96

The use of conditioned cues associated with air hunger as reinforcers: a case report. Wright L. **J Behav Med** 1990 Feb;13(1):103-9

Operant hoarding: a new paradigm for the study of self-control. Cole MR. **J Exp Anal Behav** 1990 Mar; 53(2):247-61

A functional analysis of another individual's behavior as discriminative stimulus for a monkey. Fushimi T. **J Exp Anal Behav** 1990 Mar;53(2):285-91

The origins of environment-based psychological theory. Hineline PN. **J Exp Anal Behav** 1990 Mar;53(2):305-20 (28 ref.)

Operant conditioning of behavioral variability using a percentile reinforcement schedule. Machado A. **J Exp Anal Behav** 1989 Sep;52(2):155-66

Alternative reinforcement increases resistance to change: Pavlovian or operant contingencies? Nevin JA, et al. **J Exp Anal Behav** 1990 May;53(3):359-79

Temporal differentiation of response duration in children of different ages: developmental changes in relations between verbal and nonverbal behavior. Pouthas V, et al. **J Exp Anal Behav** 1990 Jan;53(1):21-31

The effects of reinforcement frequency and response requirements on the maintenance of behavior. Rider DP, et al. **J Exp Anal Behav** 1990 Jan;53(1):141-53

Effect of reinforcer devaluation on discriminative control of instrumental behavior. Colwill RM, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):40-7

Response acquisition with delayed reinforcement. Lattal KA, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):27-39

Context extinction following conditioning with delayed reward enhances subsequent instrumental responding. Reed P, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):48-55

Local patterns in human operant behavior and a behaving model to interrelate animal and human performances [see comments] Shimp CP, et al. **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):200-12 Comment in: **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):213-6; discussion 217-21.

Enduring problems for molecular accounts of operant behavior [comment] Williams BA. **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):213-6; discussion 217-21 Comment on: **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):200-12.

Effects of ratio reinforcement schedules on choice behavior. Huang IN, et al. **J Gen Psychol** 1990 Jan;117(1):99-106

Elementary processes of response selection mediated by distinct regions of the striatum. Brown VJ, et al. **J Neurosci** 1989 Nov;9(11):3760-5

Preserved spatial coding in hippocampal CA1 pyramidal cells during reversible suppression of CA3c output: evidence for pattern completion in hippocampus. Mizumori SJ, et al. **J Neurosci** 1989 Nov;9(11):3915-28

Measuring threshold of reinforcing brain stimulation by the method of constant stimuli. Buscher W, et al. **J Neurosci Methods** 1990 Mar;31(3):225-34

Delayed postnatal behavioral development in spontaneously epileptic rats and tremor rats, and poor operant performance in spontaneously epileptic rats. Asano Y, et al. **Jikken Dobutsu** 1990 Jan;39(1):69-74

Behavioral control of visual field screening using a microcomputer. French CN, et al. **Optom Vis Sci** 1989 Dec; 66(12):871-6

Effects of corticotropin releasing factor, desipramine and haloperidol on a DRL schedule of reinforcement. Britton KT, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):967-70

A simple method for studying intravenous drug reinforcement in a runaway. Geist TD, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):703-6

Drug effects on an effortful operant: pentobarbital and amphetamine. Newland MC, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):381-7

Unilateral dopamine depletion causes bilateral deficits in conditioned rotation in rats. Richards JB, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):217-23

Efficiency and persistence of licking in rats. Buxton A, et al. **Physiol Behav** 1990 Feb;47(2):239-47

Application of operant procedures in a group of institutionalized aggressive geriatric patients. Vaccaro FJ. **Psychol Aging** 1988 Mar;3(1):22-8

Difficulty and instrumentality of imminent behavior as determinants of cardiovascular response and self-reported energy. Wright RA, et al. **Psychophysiology** 1989 Sep; 26(5):586-92

Resistance to extinction following habituation to behaviourally disruptive novel stimuli. Haggbloom SJ, et al. **Q J Exp Psychol [B]** 1989 Nov;41(4):369-80

Marking effects in instrumental performance on DRH schedules. Reed P. **Q J Exp Psychol [B]** 1989 Nov; 41(4):337-53

Shaping of rule-governed behaviour. Svartdal F. **Scand J Psychol** 1989;30(4):304-14

[Schedule sensitivity in human operant behavior: instructed versus shaped verbal behavior] Kimoto K, et al. **Shinrigaku Kenkyu** 1989 Dec;60(5):290-6 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Some effects of desmethylimipramine and amitriptyline on the schedule-controlled behavior of pigeons and rats. Lamb RJ, et al. **Arch Int Pharmacodyn Ther** 1989 Nov-Dec; 302:49-67

Intra-habenular injection of 6-hydroxydopamine produces impaired acquisition of DRL operant behavior. Thornton EW, et al. **Behav Neural Biol** 1990 Mar;53(2):291-7

Involvement of central mu and delta opioid receptors in mediating the reinforcing effects of beta-endorphin in the rat. Bals-Kubik R, et al. **Eur J Pharmacol** 1990 Jan 3; 175(1):63-9

Differential cross-tolerance to opioid agonists in morphine-tolerant squirrel monkeys responding under a schedule of food presentation. Doty P, et al. **Eur J Pharmacol** 1989 Dec 19;174(2-3):171-80

Effects of azaprophen, scopolamine and trihexyphenidyl on schedule-controlled behavior, before and after chronic physostigmine [published erratum appears in Eur J Pharmacol 1990 Apr 25;179(3):485] Genovese RF. **Eur J Pharmacol** 1990 Feb 13;176(3):271-9

Effects of GBR 12909, a selective dopamine uptake inhibitor, on motor activity and operant behavior in the rat. Kelley AE, et al. **Eur J Pharmacol** 1989 Aug 29;167(3):385-95

The action of corticosterone on schedule-induced wheelrunning. Lin WJ, et al. **Eur J Pharmacol** 1989 Nov 14;171(1):9-15

Ethanol self-administration in long sleep and short sleep mice indicates reinforcement is not inversely related to neurosensitivity. Elmer GI, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):1054-62

Discriminative stimulus effects of opioid agonists in morphine-dependent pigeons. France CP, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):626-32

Operant acquisition of alcohol by women. Mello NK, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):237-45

Behavioral effects of beta adrenergic agonists and antidepressant drugs after down-regulation of beta-2 adrenergic receptors by clenbuterol. O'Donnell JM. **J Pharmacol Exp Ther** 1990 Jul;254(1):147-57

Effects of buspirone and related compounds on suppressed operant responding in rats. Sanger DJ. **J Pharmacol Exp Ther** 1990 Aug;254(2):420-6

Short-term effects of paraoxon and atropine on schedule-controlled behavior in rats. Chambers JE, et al. **Neurotoxicol Teratol** 1989 Sep-Oct;11(5):427-32

Effects of repeated administration of soman on schedule-controlled behavior and brain in the rat. Hymowitz N, et al. **Neurotoxicol Teratol** 1990 Jan-Feb; 12(1):47-56

Effects of carbon monoxide in combination with behaviorally active drugs on fixed-ratio performance in the mouse. Knisely JS, et al. **Neurotoxicol Teratol** 1989 Sep-Oct; 11(5):447-52

Disruption of schedule-controlled behavior during abstinence from phencyclidine and tetrahydrocannabinol. Balster RL. **NIDA Res Monogr** 1989;95:124-6

Effects of controlled nicotine doses upon punished and non-punished responding in humans. Bennett RH, et al. **NIDA Res Monogr** 1989;95:438-9

Human aggressive and non-aggressive responding during acute tobacco abstinence. Cherek DR, et al. **NIDA Res Monogr** 1989;95:435-6

Evidence of pharmacological tolerance to nicotine. Villanueva HF, et al. **NIDA Res Monogr** 1989;95:349-50

Effects of corticotropin-releasing factor (CRF), tuftsin and dermorphin on behavior of squirrel monkeys maintained by different events. Nader MA, et al. **Peptides** 1989 Nov-Dec;10(6):1199-204

Time-dependent generalization of morphine stimulus properties to meperidine: antagonism by naloxone. Bartoletti M, et al. **Pharmacol Biochem Behav** 1989 Oct; 34(2):429-31

Effects of Ro 15-4513 on schedule-controlled responding of pigeons. Delaney D, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):777-80

Haloperidol prevents the reinstatement of amphetamine-rewarded runway responding in rats. Ettenberg A. **Pharmacol Biochem Behav** 1990 Jul; 36(3):635-8

T-maze performance in rats following chronic neuroleptic treatment. Ferré S, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):481-4

Cocaine and level of arousal: effects on vigilance task performance of rats. Grilly DM, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):269-71

Reduction in oral ethanol self-administration in the rat by the 5-HT uptake blocker fluoxetine. Haraguchi M, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):259-62

Preferential stimulation of D1 or D2 receptors disrupts food-rewarded operant responding in rats. Hoffman DC, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):923-5

Parallel development of ethanol tolerance and operant compensatory behaviors in rats. Holloway FA, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):855-61

Differential attenuation of water intake and water-rewarded operant responding by repeated administration of haloperidol and SCH 23390 in the rat. Ljungberg T. **Pharmacol Biochem Behav** 1990 Jan;35(1):111-5

Effects of the dopamine D-1 antagonist SCH 23390 on water intake, water-rewarded operant responding and apomorphine-induced decrease of water intake in rats. Ljungberg T. **Pharmacol Biochem Behav** 1989 Jul; 33(3):709-12

Effects of serotonin agonists on operant behavior in the squirrel monkey: quipazine, MK-212, trifluoromethylphenylpiperazine, and chlorophenylpiperazine. McKearney JW. **Pharmacol Biochem Behav** 1990 Jan;35(1):181-5

Effects of terminating chronic phencyclidine on schedule-controlled behavior in rats. Massey BW, et al. **Pharmacol Biochem Behav** 1990 May;36(1):117-21

The selective dopamine D1 receptor agonist SK&F 38393: its effects on palatability- and deprivation-induced feeding, and operant responding for food. Rusk IN, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):17-22

Temporal parameters of cathinone, amphetamine and cocaine. Schechter MD. **Pharmacol Biochem Behav** 1989 Oct;34(2):289-92

Multiple behavioral effects of diazepam in rhesus monkeys. Schulze GE, et al. **Pharmacol Biochem Behav** 1989 Sep; 34(1):29-35

Acute effects of d-amphetamine in a monkey operant behavioral test battery. Schulze GE, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):759-65

Disruption of FR-40 by 5-HT agonists. I. Effects of chronic imipramine or trazodone. Shukla R, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):275-81

Disruption of FR-40 by 5-HT agonists. II. Effects of chronic phenelzine or isocarboxazid. Shukla R, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):283-7

Situational specificity of tolerance to decreased operant responding by cocaine. Smith JB. **Pharmacol Biochem Behav** 1990 Jul;36(3):473-7

Time-response effects of pimozide on operant behavior and schedule-induced polydipsia. Snodgrass SH, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):949-55

Effect of anxiolytics and antidepressants on extinction and negative contrast. Flaherty CF. **Pharmacol Ther** 1990; 46(2):309-20 (125 ref.)

Effects of drugs on punished behavior: pre-clinical test for anxiolytics. Pollard GT, et al. **Pharmacol Ther** 1990; 45(3):403-24 (197 ref.)

Amperozide and conditioned behaviour in rats: potentiation

by classical neuroleptics and alpha-methylparatyrosine. Egbe P, et al. **Pharmacol Toxicol** 1990;66 Suppl 1:18–21

Nicotine-induced tolerance and dependence in rats and mice: studies involving schedule-controlled behavior. Rosecrans JA, et al. **Prog Brain Res** 1989;79:239–48

Bombesin improves rats' operant responding maintained by a differential-reinforcement-of-low-rates schedule of food reinforcement. Bowers RL, et al. **Psychol Rep** 1990 Feb; 66(1):131–8

Blockade of acquisition of drug-conditioned place aversion by 5HT3 antagonists. Acquas E, et al. **Psychopharmacology (Berl)** 1990;100(4):459–63

Tolerance and dependence after continuous morphine infusion from osmotic pumps measured by operant responding in rats. Adams JU, et al. **Psychopharmacology (Berl)** 1990;100(4):451–8

MDMA produces stimulant-like conditioned locomotor activity. Gold LH, et al. **Psychopharmacology (Berl)** 1989; 99(3):352–6

Tolerance to ethanol's disruptive effects on operant behavior in rats. Holloway FA, et al. **Psychopharmacology (Berl)** 1989;99(4):479–85

Aversion instead of preference learning indicated by nicotine place conditioning in rats. Jorenby DE, et al. **Psychopharmacology (Berl)** 1990;101(4):533–8

Effects of bromocriptine and desipramine on behavior maintained by cocaine or food presentation in rhesus monkeys. Kleven MS, et al. **Psychopharmacology (Berl)** 1990;101(2):208–13

Diazepam and decision making in the rat: negative evidence for reduced tolerance to reward delay. Ljungberg T. **Psychopharmacology (Berl)** 1990;102(1):117–21

Effects of alcohol on reinforced repetitions and reinforced variations in rats. McElroy E, et al. **Psychopharmacology (Berl)** 1990;102(1):49–55

Naloxone disrupts the expression but not the acquisition by male rats of a conditioned place preference response for an oestrous female. Mehrara BJ, et al. **Psychopharmacology (Berl)** 1990;101(1):118–25

Conditioning of morphine-induced taste aversion and analgesia. Miller JS, et al. **Psychopharmacology (Berl)** 1990; 101(4):472–80

Naloxone enhances the expression of morphine-induced conditioned place preference. Neisewander JL, et al. **Psychopharmacology (Berl)** 1990;100(2):201–5

Reinforcing effects of peripherally administered substance P and its C-terminal sequence pGlu6-SP6-11 in the rat. Oitzl MS, et al. **Psychopharmacology (Berl)** 1990; 100(3):308–15

Infusions of cholecystokinin octapeptide into the ventral tegmental area potentiate amphetamine conditioned place preferences. Pettit HO, et al. **Psychopharmacology (Berl)** 1989;99(3):423–6

Opposing effects of vasopressin on matching versus non-matching to position: further evidence for response, not memory, modulation. Sahgal A, et al. **Psychopharmacology (Berl)** 1990;102(1):130–5

Administration of leu-enkephalin impairs the acquisition of preference for ethanol. Sandi C, et al. **Psychopharmacology (Berl)** 1990;100(3):350–4

Super-reactivity to amphetamine toxicity induced by schedule of reinforcement. Valencia-Flores M, et al. **Psychopharmacology (Berl)** 1990;102(1):136–44

On the possible involvement of glutamate receptors in conditioning of behavioural effects of apomorphine. Welsch-Kunze S, et al. **Psychopharmacology (Berl)** 1990; 101(3):421–8

Bromocriptine self-administration and bromocriptine-reinstatement of cocaine-trained and heroin-trained lever pressing in rats. Wise RA, et al. **Psychopharmacology (Berl)** 1990;100(3):355–60

Tolerance to morphine stimulus control: role of morphine maintenance dose. Young AM, et al. **Psychopharmacology (Berl)** 1990;102(1):59–67

Dose-dependent and baseline-dependent conditioning with d-amphetamine in the place conditioning paradigm. Costello NL, et al. **Psychopharmacology (Berlin)** 1989; 99(2):244–7

The role of response-contingent incentives in lithium chloride-mediated suppression of an operant response. Meachum CL. **Q J Exp Psychol [B]** 1990 May;42(2):175–95

Overshadowing of a context aversion by a novel incentive in operant conditioning. Meachum CL. **Q J Exp Psychol [B]** 1990 May;42(2):197–210

The behavioral pharmacology of alcohol and other drugs. Emerging issues. Carroll ME, et al. **Recent Dev Alcohol** 1990;8:5–46 (294 ref.)

Evaluation of the pharmacological similarities between phenylpropanolamine and amphetamine: effects on schedule-controlled behavior. Wagner GC, et al. **Synapse** 1990;6(1):101–5

[Effect of clonidine on the schedule-controlled performance action of two benzodiazepine receptor agonists] Yang XM, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):11–5 (Eng. Abstr.) **(Chi)**

[Assessment of drug effects on memory by delayed discrimination responses in rats] Hironaka N, et al. **Nippon Yakurigaku Zasshi** 1990 Jun;95(6):309–18 (Eng. Abstr.) **(Jpn)**

[Sex difference in operant behavior following single exposure to carbon monoxide in adult rats] Aikawa H, et al. **Sangyo Igaku** 1990 Jan;32(1):26–32 (Eng. Abstr.) **(Jpn)**

[The assessment of the action of pharmacological agents based on a new computer program for analysing animal operant behavior] Garibova TL, et al. **Farmakol Toksikol** 1990 Jan-Feb;53(1):67–70 (Eng. Abstr.) **(Rus)**

[Changes in the neuronal activity of the ventrolateral thalamic nucleus and in the motor components of an instrumental reaction in cats following the systemic administration of N-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)] Zelenskaia VS, et al. **Neirofiziologiia** 1990;22(3):291–300 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Learned control of systolic blood pressure raising and lowering in rhesus monkeys. Bárdos G, et al. **Acta Physiol Hung** 1989;73(4):433–46

Brain mechanisms underlying motor skill learning in the rat. Thompson R, et al. **Am J Phys Med Rehabil** 1990 Aug; 69(4):191–7

Key pecking operant conditioning in detelencephalated pigeons (Columba livia). De Souza CM, et al. **Behav Brain Res** 1990 May 28;38(3):223–31

Interhemispheric transfer of visuomotor conditional learning via the anterior corpus callosum of monkeys. Eacott MJ, et al. **Behav Brain Res** 1990 May 7;38(2):109–16

Task difficulty increases thresholds of rewarding brain stimulation. Fouriezos G, et al. **Behav Brain Res** 1990 Feb 12;37(1):1–7

Medial versus lateral hyperstriatal lesions in pigeons: effects on autoshaping, non-matching-to-sample and spatial discrimination learning at short and long intertrial intervals. Macphail EM, et al. **Behav Brain Res** 1989 Oct 1; 35(1):63–73

Patterned (single) alternation in infant rats after combined or separate lesions of hippocampus and amygdala. Lobaugh NJ, et al. **Behav Neurosci** 1989 Dec;103(6):1159–67

Applied psychophysiology and biofeedback of event-related potentials (brain waves): historical perspective, review, future directions. Rosenfeld JP. **Biofeedback Self Regul** 1990 Jun;15(2):99–119 (36 ref.)

Long-term potentiation and postconditioning potentiation—the same mechanism? Krug M, et al. **Biomed Biochim Acta** 1990;49(4):273–9

Sensory-motor deficit and recovery from thrombotic infarction of the vibrissal barrel-field cortex. Hurwitz BE, et al. **Brain Res** 1990 Apr 2;512(2):210–20

Conditioned diastolic blood pressure: the effects of magnitude of acquired response and feedback schedules on resistance to extinction. Gamble EH, et al. **Int J Psychophysiol** 1990 Jul;9(1):13–20

Operant conditioning of head-waving in Aplysia. I. Identified muscles involved in the operant response. Cook DG, et al. **J Neurosci** 1989 Sep;9(9):3097–106

Operant conditioning of head-waving in Aplysia. III. Cellular analysis of possible reinforcement pathways. Cook DG, et al. **J Neurosci** 1989 Sep;9(9):3115–22

Operant conditioning of head-waving in Aplysia. II. Contingent modification of electromyographic activity in identified muscles. Cook DG, et al. **J Neurosci** 1989 Sep; 9(9):3107–14

Operant conditioning of H-reflex in freely moving monkeys. Wolpaw JR, et al. **J Neurosci Methods** 1990 Feb; 31(2):145–52

Unilateral periarcuate and posterior parietal lesions impair conditional position discrimination learning in the monkey. Crowne DP, et al. **Neuropsychologia** 1989;27(9):1119–27

Failure to acquire an inhibitory task following seizure-induced brain damage. Harrigan T, et al. **Percept Mot Skills** 1990 Feb;70(1):268–70

Amino acids and memory consolidation in the cricket. I: Changes in the titer of free amino acids in nervous tissue after learning. Jaffe K, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):127–31

Dynamics of plasma catecholamine and corticosterone concentrations during reinforced and extinguished operant behavior in rats. de Boer SF, et al. **Physiol Behav** 1990 Apr;47(4):691–8

Intertrial interval dependent effect of lateral hypothalamic stimulation on spontaneous alternation behavior in a T-maze. Durantou F, et al. **Physiol Behav** 1989 Aug; 46(2):253–8

Telencephalic function implicated in food-reinforced color discrimination learning in the goldfish. Ohnishi K. **Physiol Behav** 1989 Oct;46(4):707–12

Set-related activity in the premotor cortex of rhesus monkeys: effect of triggering cues and relatively long delay intervals. Wise SP, et al. **Somatosens Mot Res** 1989; 6(5-6):455–76

[Use of the self-stimulation method in evaluating the physical work capacity of laboratory animals] Rushkevich IuE, et al. **Fiziol Zh** 1990 Mar-Apr;36(2):107–9 (Eng. Abstr.) **(Rus)**

[The neuronal reactions of the parietal associative cortex (area 5) in the cat during internal inhibition of the instrumental food reflex] Afonskil AS, et al. **Neirofiziologiia** 1989;21(6):841–5 (Eng. Abstr.) **(Rus)**

[Neuronal reactions of the substantia innominata in the cat during an instrumental conditioned reflex] Storozhuk VM, et al. **Neirofiziologiia** 1989;21(6):796–804 (Eng. Abstr.) **(Rus)**

[The behavior of tamarin monkeys during the learning and realization of instrumental food habits in a competitive situation] Maliukova IV, et al. **Zh Evol Biokhim Fiziol** 1990 Mar-Apr;26(2):221–9 (Eng. Abstr.) **(Rus)**

[The role of signal and motivational links of a conditioned reflex in the initiation of instrumental movements in dogs] Chilingarian LI, et al. **Zh Vysh Nerv Deiat** 1989 Sep-Oct; 39(5):851–60 (Eng. Abstr.) **(Rus)**

[Multineuronal cortical activity in dogs with a defensive instrumental conditioned reflex] Dolbakian EE, et al. **Zh Vysh Nerv Deiat** 1989 Sep-Oct;39(5):898–905 (Eng. Abstr.) **(Rus)**

[The role of the basal ganglia in the reproducibility of instrumental reactions acquired to electrostimulation of the hippocampus] Grigor'ian GA, et al. **Zh Vysh Nerv Deiat** 1990 Mar-Apr;40(2):263–72 (Eng. Abstr.) **(Rus)**

[Influence of the probability of the random performance of an acquired reaction on the rate of the formation of an instrumental reflex] Saltykov AB, et al. **Zh Vysh Nerv Deiat** 1989 Jul-Aug;39(4):654–9 (Eng. Abstr.) **(Rus)**

[Stochastic simulation of the instrumental reflex in probability learning] Saltykov AB, et al. **Zh Vysh Nerv Deiat** 1989 Sep-Oct;39(5):974–8 (Eng. Abstr.) **(Rus)**

[A kinematic analysis of the formation of precise instrumental movements in cats] Sidorov BM. **Zh Vysh Nerv Deiat** 1990 Mar-Apr;40(2):283–90 (Eng. Abstr.) **(Rus)**

[An automated system for research on the neuronal mechanisms of precise instrumental movements in cats] Sidorov BM, et al. **Zh Vysh Nerv Deiat** 1989 Jul-Aug; 39(4):780–2 **(Rus)**

[Regression analysis of an instrumental conditioned tentacular reflex in the edible snail] Stepanov II, et al. **Zh Vysh Nerv Deiat** 1989 Sep-Oct;39(5):890–7 (Eng. Abstr.) **(Rus)**

[Behavioral instrumental reactions and the heart rhythm in chimpanzees with different rates of approach to a natural food stimulus] Syrenskiĭ VI, et al. **Zh Vysh Nerv Deiat** 1990 Mar-Apr;40(2):369–71 **(Rus)**

RADIATION EFFECTS

[Use of the parameters of the locomotor activity of animals in experimental and hygienic studies of microwave radiation] Navakatikian MA, et al. **Gig Sanit** 1989 Oct; (10):82–5 **(Rus)**

CONDITIONING THERAPY see **BEHAVIOR THERAPY**

CONDOMS see **CONTRACEPTIVE DEVICES, MALE**

CONDUCT DISORDERS, CHILD see **CHILD BEHAVIOR DISORDERS**

CONDUCTION BLOCKING ANESTHETICS see **ANESTHETICS, LOCAL**

CONDUCTOMETRY

A medium for the detection of yeasts using a conductimetric method. Connolly P, et al. **Int J Food Microbiol** 1988 Aug; 7(1):31–40

METHODS

[Low-frequency conductometry of the tissues and organs of undefined geometrical form] Ibragimov RSh, et al. **Med Tekh** 1990 Mar-Apr;(2):8–11 (Eng. Abstr.) **(Rus)**

[An evaluation of conductometric methods for determining circulating blood volume] Singaevskiĭ SB, et al. **Vestn Khir** 1989 Oct;143(10):97–100 (Eng. Abstr.) **(Rus)**

CONDYLOMATA ACUMINATA

Condylomata acuminata in the pediatric population. Boyd AS. **Am J Dis Child** 1990 Jul;144(7):817–24 (84 ref.)

Penile condylomata acuminata in a male child: a case report [letter] Kumar B, et al. **Genitourin Med** 1990 Jun; 66(3):226–7

Human xenografts. A model system for human papillomavirus infection. Howett MK, et al. **Intervirology** 1990;31(2–4):109–15

Genitoanal papillomavirus infection—a diagnostic and therapeutic dilemma. Oriel JD. **Semin Dermatol** 1990 Jun; 9(2):141–7 (40 ref.)

[Genital condyloma acuminata: report of 63 cases] Tian YQ. **Chung Hua Wai Ko Tsa Chih** 1990 Mar;28(3):176–7, 190–1 (Eng. Abstr.) **(Chi)**

[Cervix uteri and human papillomavirus infections. Current approach] Broso P, et al. **Minerva Ginecol** 1990 Mar; 42(3):65–8 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Genital warts: need to screen for coinfection [see comments] Carne CA, et al. **BMJ** 1990 Feb 17;300(6722):459 Comment in: BMJ 1990 Apr 14;300(6730):1013–4.

Genital warts [letter] Stack WC. **BMJ** 1990 May 19; 300(6735):1339–40

Flat condylomata of the penis presenting as patchy balanoposthitis. Arumainayagam JT, et al. **Genitourin Med** 1990 Aug;66(4):251–3

Genital warts and the need for screening [letter] Crawshaw SC, et al. **Genitourin Med** 1990 Jun;66(3):228–9

Genital warts and the need for screening [letter] Griffiths M. **Genitourin Med** 1989 Dec;65(6):399
Genital warts and the need for screening [letter] Jayaweera DT, et al. **Genitourin Med** 1990 Aug;66(4):305
Clinical course of anogenital warts in men infected with human immunodeficiency virus. McMillan A, et al. **Genitourin Med** 1989 Aug;65(4):225–8
Malignant change in perianal condylomata acuminata [letter; comment] Scholefield JH, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):169–70 Comment on: J R Coll Surg Edinb 1988 Oct;33(5):282.
Genital papillomavirus infections: current knowledge and future prospects. Koutsky LA, et al. **Obstet Gynecol Clin North Am** 1989 Sep;16(3):541–64 (162 ref.)
[Büschke–Loewenstein tumor during pregnancy. Apropos of 2 cases] Picaud A, et al. **Rev Fr Gynecol Obstet** 1990 Jun; 85(6):375–8 (Eng. Abstr.) (Fre)
[Condylomata acuminata of the external genitalia and dysplasia of the uterine cervix] Galasso F, et al. **G Ital Dermatol Venereol** 1989 May;124(5):207–10 (Eng. Abstr.) (Ita)
[Infection of Chlamydia trachomatis and dysplasia lesions of the cervix uteri (CIN)] Alberico S, et al. **Minerva Ginecol** 1989 Jul;41(7):343–7 (Eng. Abstr.) (Ita)

CONGENITAL

Congenital condylomata acuminata with meconium staining of amniotic fluid and fetal hydrocephalus: case report. Rogo KO, et al. **East Afr Med J** 1989 Jun;66(6):411–3

DIAGNOSIS

Genital human papillomavirus infections. Douglas JM Jr, et al. **Clin Lab Med** 1989 Sep;9(3):421–44 (172 ref.)
Prolonged application of acetic acid for detection of flat vulval warts. Larsen J, et al. **Dan Med Bull** 1990 Jun; 37(3):286–7
Vinegar elucidation of warts [letter; comment] Rapaport M. **J Am Acad Dermatol** 1990 Jan;22(1):147 Comment on: J Am Acad Dermatol 1988 Aug;19(2 Pt 1):372–3.
Utility of ViraPap remains to be established [news] Corliss J. **J Natl Cancer Inst** 1990 Feb 21;82(4):252–3
Symptoms of chronic vaginal infection and microscopic condyloma in women. Deitch KV, et al. **J Obstet Gynecol Neonatal Nurs** 1990 Mar–Apr;19(2):133–8 (17 ref.)
Misdiagnosis of coronal papillae [letter] Evans D, et al. **Med J Aust** 1990 Jan 15;152(2):109
Venereal warts. Rapini RP. **Prim Care** 1990 Mar;17(1):127–44 (55 ref.)
[Diagnosis of papillomavirus infection of the female genital system] Blanc B. **Rev Fr Gynecol Obstet** 1989 Mar 25;84(3 Pt 2):231–2; discussion 240–4 (Eng. Abstr.) (Fre)

DRUG THERAPY

Double-blind randomized clinical trial of self-administered podofilox solution versus vehicle in the treatment of genital warts. Kirby P, et al. **Am J Med** 1990 May;88(5):465–9
Topical idoxuridine for treatment of genital warts in males. A double-blind comparative study of 0.25% and 0.5% cream. Happonen HP, et al. **Genitourin Med** 1990 Aug; 66(4):254–6
Treatment of large lower genital tract condylomata acuminata with topical 5-fluorouracil. Pride GL. **J Reprod Med** 1990 Apr;35(4):384–7
Current status of podophyllotoxin for the treatment of genital warts. Beutner KR, et al. **Semin Dermatol** 1990 Jun; 9(2):148–51 (24 ref.)
Treatment of extensive vulvar condylomata acuminata with topical 5-fluorouracil. Krebs HB. **South Med J** 1990 Jul; 83(7):761–4
[The therapeutic aspect and management in condyloma acuminata] Simeonova L, et al. **Akush Ginekol (Sofiia)** 1990; 29(1):67–70 (25 ref.) (Bul)
[Clomiphene citrate ointment in the local treatment of condylomata acuminata] Fitz R, et al. **Wien Klin Wochenschr** 1990 May 25;102(11):337–8 (Eng. Abstr.) (Ger)

EPIDEMIOLOGY

Genital warts [letter; comment] **BMJ** 1990 Apr 14; 300(6730):1013–4 Comment on: **BMJ** 1990 Feb 17;300(6722):459.
[Condylomata acuminata in children] Andersen LF, et al. **Ugeskr Laeger** 1990 Jul 2;152(27):1977–80 (Eng. Abstr.) (Dan)
[Epidemiology of human papillomavirus genital infections in women] Brémond A. **Rev Fr Gynecol Obstet** 1989 Mar 25;84(3 Pt 2):229–30; discussion 240–4 (Eng. Abstr.) (Fre)
[Condyloma acuminata in teenage patients] Kageyama Y, et al. **Hinyokika Kiyo** 1989 Jun;35(6):993–6 (Eng. Abstr.) (Jpn)

ETIOLOGY

Genital human papillomavirus infections in the male sexual partners of 45 female patients with papillomavirus infection. Laurikka J, et al. **Ann Chir Gynaecol** 1990;79(1):54–7
Human papillomaviruses in anogenital warts in children [letter] Forster GE, et al. **BMJ** 1990 Aug 18–25; 301(6748):388
Detection of human papilloma virus DNA in semen from patients with intrameatal penile warts [letter] Griffiths M. **Genitourin Med** 1990 Jun;66(3):229–30
Sexual abuse and human papillomavirus infection [letter; comment] Gutman LT. **J Pediatr** 1990 Mar;116(3):495–6 Comment on: J Pediatr 1989 Jul;115(1):1–9.
Pork intake and human papillomavirus-related disease. Schneider A, et al. **Nutr Cancer** 1990;13(4):209–11
Vaginal condylomata acuminata after McIndoe neovagina creation. Haney AF. **Sex Transm Dis** 1990 Apr–Jun; 17(2):102–5
[Risk factors for condylomata. A case control study] Brémond A, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989;18(6):701–6 (Eng. Abstr.) (Fre)
[A rare complication of ulcerative colitis: Bowen's disease in perianal condyloma acuminatum] Balázs M. **Orv Hetil** 1989 Dec 10;130(50):2693–5 (32 ref.) (Eng. Abstr.) (Hun)
[Human papillomaviruses and malignant neoplasms] Jabłońska S. **Przegl Dermatol** 1989 May–Jun;76(3):208–14 (Pol)
[Variability of the clinical picture and the course of infection of the genital organs an anus by human papillomaviruses] Mazurkiewicz W. **Przegl Dermatol** 1989 May–Jun; 76(3):234–40 (Pol)

GENETICS

Detection of human papillomavirus DNA in penile lesions histologically negative for condylomata. Analysis by in situ hybridization and the polymerase chain reaction. Nuovo GJ, et al. **Am J Surg Pathol** 1990 Sep;14(9):829–36
Human papillomavirus DNA in genital tract lesions histologically negative for condylomata. Analysis by in situ, Southern blot hybridization and the polymerase chain reaction. Nuovo GJ. **Am J Surg Pathol** 1990 Jul; 14(7):643–51
Influence of human papillomavirus on DNA ploidy determination in genital condylomas. Chacho MS, et al. **Cancer** 1990 May 15;65(10):2291–4
Detection of human papillomavirus DNA in genital condylomata in women and their male partners by using in situ hybridization with digoxygenin labeled probes. Konno R, et al. **Tohoku J Exp Med** 1990 Apr;160(4):383–90
Coexpression of the human papillomavirus type 16 E4 and L1 open reading frames in early cervical neoplasia. Crum CP, et al. **Virology** 1990 Sep;178(1):238–46

IMMUNOLOGY

Immunological status to Epstein–Barr virus and cytomegalovirus in patients with genital condylomata. Zerbini M, et al. **Eur J Epidemiol** 1989 Sep;5(3):343–7
An immunohistological study of spontaneous regression of condylomata acuminata. Bishop PE, et al. **Genitourin Med** 1990 Apr;66(2):79–81
Genital warts: molecular biology and immunology. Tindle R. **Immunol Cell Biol** 1990 Feb;68 (Pt 1):71–4
[Condylomata acuminata: immunological evaluation and interferon therapy] Donofrio P, et al. **G Ital Dermatol Venereol** 1989 Jul–Aug;124(7–8):375–7 (Eng. Abstr.) (Ita)

MICROBIOLOGY

Anal cancer. Microscopic condyloma and tissue demonstration of human papillomavirus capsid antigen and viral DNA. Taxy JB, et al. **Arch Pathol Lab Med** 1989 Oct;113(10):1127–31
Longitudinal study of human papillomavirus infection of the female urogenital tract by in situ hybridization. Wilson RW, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):155–9
Human papillomaviruses in anogenital warts in children [letter] Lacey CJ, et al. **BMJ** 1990 Jul 28;301(6745):241
Human papillomaviruses in anogenital warts in children: typing by in situ hybridisation. Padel AF, et al. **BMJ** 1990 Jun 9;300(6738):1491–4
Detection of human papillomavirus DNA in semen from patients with intrameatal penile warts. Green J, et al. **Genitourin Med** 1989 Dec;65(6):357–60
Two new human papillomavirus types (HPV54 and 55) characterized from genital tumours illustrate the plurality of genital HPVs. Favre M, et al. **Int J Cancer** 1990 Jan 15;45(1):40–6
Human papillomavirus types in anogenital warts of children. Gibson PE, et al. **J Med Virol** 1990 Feb;30(2):142–5
Human papillomavirus types and recurrent cervical warts. Nuovo GJ, et al. **JAMA** 1990 Mar 2;263(9):1223–6

NURSING

Cervical dysplasia and condyloma as risks for carcinoma. Two case studies. Toole KA, et al. **MCN** 1990 May–Jun; 15(3):170–5 (8 ref.)

PATHOLOGY

Cervical signs of HPV infection in PAP-smear negative women with external genital warts. Petersen CS, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):454–6
A penile-tunnel 'pop up wart': an unusual complication of penile adhesions [letter] Bart BJ, et al. **Arch Dermatol** 1990 Jun;126(6):828–9
Perianal condylomata acuminata [letter; comment] Smedley FH, et al. **Br J Surg** 1990 Apr;77(4):474 Comment on: Br J Surg 1989 Oct;76(10):1067–8.
Immunohistology of genital warts in different stages of regression after therapy with interferon gamma. Fierlbeck G, et al. **Dermatologica** 1989;179(4):191–5
Malignant transformation of anorectal giant condyloma acuminatum (Buschke–Loewenstein tumor). Creasman C, et al. **Dis Colon Rectum** 1989 Jun;32(6):481–7
Anal condylomas in men. 1. Histopathological and virological assessment. Syrjänen SM, et al. **Genitourin Med** 1989 Aug;65(4):216–24
Spatula/cytobrush vs. spatula/cotton swab detection of cervical condylomatous lesions. Selvaggi SM. **J Reprod Med** 1989 Sep;34(9):629–33
Clinical and molecular evaluation of acetowhite genital lesions in men. Schultz RE, et al. **J Urol** 1990 May; 143(5):920–3
[Cervical dysplasia and condylomatous lesions. Experience of Cameroon] Mbakop A, et al. **Ann Pathol** 1990;10(3):206 (Fre)
[Cancer of the anus arising within condylomata acuminata. Apropos of 2 cases. Review of the literature] Solovei G, et al. **J Chir (Paris)** 1989 Nov;126(11):603–7 (24 ref.) (Eng. Abstr.) (Fre)
[Colposcopic, cyto- and histologic signs of papilloma virus infection in precancerous and early stages of cervix cancer] Barten G, et al. **Zentralbl Gynakol** 1990;112(1):23–31 (Eng. Abstr.) (Ger)
[Ultrastructural papilloma virus detection in precancerous and early stages of cervix cancer] Barten G. **Zentralbl Gynakol** 1990;112(1):33–8 (Eng. Abstr.) (Ger)
[Follow-up in cervix intra-epithelial neoplasia and condylomatous lesions of the uterine cervix] Barten G. **Zentralbl Gynakol** 1990;112(2):99–108 (Eng. Abstr.) (Ger)
[A case of condyloma accuminatum around the anus in a married man] Takai K, et al. **Hinyokika Kiyo** 1990 May; 36(5):631–3 (Eng. Abstr.) (Jpn)
[Possibilities of cytologic and histologic methods of diagnosing flat condyloma of the cervix uteri] Andreev AI. **Akush Ginekol (Mosk)** 1990 Feb;(2):35–8 (Eng. Abstr.) (Rus)
[Co-existence of intraepithelial neoplasms of the uterine cervix and condyloma latum. Analysis of diagnostic distortions induced by condylomas] Norambuena L, et al. **Rev Chil Obstet Ginecol** 1988;53(1):57–63 (Eng. Abstr.) (Spa)

RADIOGRAPHY

Condylomata acuminata of the bladder: a rare cause of intraluminal-filling defects. Murphy WD, et al. **Urol Radiol** 1990;12(1):34–6

RADIOTHERAPY

[Current aspects of the treatment of condylomata acuminata] Beliaeva TL, et al. **Vestn Dermatol Venerol** 1989;(7):58–60 (Eng. Abstr.) (Rus)

SURGERY

Cryotherapy during pregnancy. Matányi S. **Acta Chir Hung** 1989;30(4):325–31
Cryotherapy and CO2-laser vaporization in the treatment of cervical and vaginal human papillomavirus (HPV) infections. Yliskoski M, et al. **Acta Obstet Gynecol Scand** 1989;68(7):619–25
Podophyllin versus scissor excision in the treatment of perianal condylomata acuminata: a prospective study [see comments] Khawaja HT. **Br J Surg** 1989 Oct;76(10):1067–8 Comment in: Br J Surg 1990 Apr;77(4):474.
Long-term results of carbon dioxide laser treatment of meatal condylomata acuminata. Krogh J, et al. **Br J Urol** 1990 Jun;65(6):621–3
The patient with refractory genital warts in the STD-clinic. Treatment failure with CO2-laser. Larsen J, et al. **Dan Med Bull** 1990 Apr;37(2):194–5
Surgical management of anal condylomata in the HIV-positive patient. Beck DE, et al. **Dis Colon Rectum** 1990 Mar;33(3):180–3
Risk of papillomavirus infection in carbon dioxide laser treatment of genital lesions. Andre P, et al. **J Am Acad Dermatol** 1990 Jan;22(1):131–2
Human papillomavirus DNA in CO2 laser-generated plume of smoke and its consequences to the surgeon. Ferenczy A, et al. **Obstet Gynecol** 1990 Jan;75(1):114–8
Local anesthesia of the genital mucosa with a lidocaine/prilocaine cream (EMLA) for laser treatment of condylomata acuminata: a placebo-controlled study. Rylander E, et al. **Obstet Gynecol** 1990 Feb;75(2):302–6
Genital warts [letter] Clofine RJ. **Postgrad Med** 1989 Nov 1;86(6):29–30
[Treatment of condylomata acuminata: efficacy of the carbon dioxide laser] Ruffieux C, et al. **Ann Dermatol Venereol** 1990;117(2):97–101 (35 ref.) (Eng. Abstr.) (Fre)
[Laser therapy of condylomata of the female genitals] Heim K, et al. **Gynakol Rundsch** 1989;29 Suppl 2:96–100 (Ger)
[Buschke–Löwenstein tumor] Danuser H, et al. **Urologe [A]** 1989 Sep;28(5):300–2; discussion 302–3 (Eng. Abstr.) (Ger)
[Lasers and genital (cervico-vulvo-vaginal) pathology]

Giannone E, et al. **Minerva Ginecol** 1989 Oct;41(10):489–91 (Eng. Abstr.) **(Ita)**

[Intraurethral condyloma acuminatum: report of a case] Tanaka S, et al. **Hinyokika Kiyo** 1990 Feb;36(2):171–2 (Eng. Abstr.) **(Jpn)**

[Use of CO2 laser in the treatment of condylomata acuminata of the vulva in women] Rzempołuch J, et al. **Przegl Dermatol** 1989 Mar–Apr;76(2):141–5 (Eng. Abstr.) **(Pol)**

[Selection of the method of surgical treatment of perianal condylomata] Il'ianov VI, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):76–8 (Eng. Abstr.) **(Rus)**

[Condyloma acuminatum in children: treatment with the CO2 laser] López Alvarez–Buhilla P, et al. **An Esp Pediatr** 1990 Mar;32(3):271–2 **(Spa)**

THERAPY

Intralesional interferon alfa–2b for the treatment of genital warts. Welander CE, et al. **Am J Obstet Gynecol** 1990 Feb; 162(2):348–54

Treatment of external genital warts: a randomised clinical trial comparing podophyllin, cryotherapy, and electrodesiccation. Stone KM, et al. **Genitourin Med** 1990 Feb;66(1):16–9

A randomized trial of combination therapy with intralesional interferon alpha 2b and podophyllin versus podophyllin alone for the therapy of anogenital warts. Douglas JM Jr, et al. **J Infect Dis** 1990 Jul;162(1):52–9

Condyloma acuminata in men: the role of the urologist. Knoll LD, et al. **J Tenn Med Assoc** 1990 May;83(5):230–2

Management of genital infection caused by human papillomavirus. Kraus SJ, et al. **Rev Infect Dis** 1990 Jul–Aug;12 Suppl 6:S620–32 (65 ref.)

Combination therapy for penile giant Buschke–Löwenstein condyloma. Gilbert P, et al. **Urol Int** 1990;45(2):122–4

[Buschke–Lowenstein tumor of the anal area] Oberlin P, et al. **Ann Dermatol Venereol** 1989;116(11):871–3 **(Fre)**

[Treatment of condylomata acuminata (editorial)] Thivolet J. **Ann Dermatol Venereol** 1990;117(2):95–6 **(Fre)**

[Papilloma of the anus. Management] Marti MC. **Ann Gastroenterol Hepatol (Paris)** 1989 Dec;25(7):307–8 **(Fre)**

[Management of infection caused by HPV in pregnancy] Bergeron C. **J Gynecol Obstet Biol Reprod (Paris)** 1989; 18(7):895–8 (17 ref.) (Eng. Abstr.) **(Fre)**

[Interferon in the treatment of condylomata acuminata] Zwiorek L, et al. **Geburtshilfe Frauenheilkd** 1989 Nov; 49(11):1001–5 (Eng. Abstr.) **(Ger)**

[Recombinant alpha and/or gamma interferon in the treatment of 45 patients with condylomata acuminata] Reichel R, et al. **Gynakol Rundsch** 1989;29 Suppl 2:350–1 **(Ger)**

[Condylomata acuminata gigantea with detection of HPV–6–DNA. A case report with adjuvant systemic IFN–gamma therapy] Fierlbeck G, et al. **Hautarzt** 1989 Dec;40(12):767–70 (Eng. Abstr.) **(Ger)**

[Adjuvant systemic interferon alpha–2B treatment in treatment refractory anogenital Condylomata acuminata] Erpenbach K, et al. **Urologe [A]** 1990 Jan;29(1):43–5 (Eng. Abstr.) **(Ger)**

[Genital condylomatosis in women] D'Anna A, et al. **Riv Eur Sci Med Farmacol** 1989 Aug;11(4):341–3 (Eng. Abstr.) **(Ita)**

[The use of leukocyte interferon in the combined therapy of condylomata acuminata of the genitals] Sycheva LG, et al. **Vestn Dermatol Venerol** 1990;(1):58–60 (Eng. Abstr.) **(Rus)**

[Effective treatment of genital papilloma virus infections is lacking] Rylander E, et al. **Lakartidningen** 1990 May 9; 87(19):1665–7 **(Swe)**

CONFERENCES see **CONGRESSES**

CONFIDENCE INTERVALS see under **STATISTICS**

CONFIDENTIALITY

Many people who seek anonymous HIV–antibody testing would avoid it under other circumstances. Kegeles SM, et al. **AIDS** 1990 Jun;4(6):585–8

Physician breach of patient confidentiality among individuals with human immunodeficiency virus (HIV) infection: patterns of decision. Schwartzbaum JA, et al. **Am J Public Health** 1990 Jul;80(7):829–34

Identification of patients [letter] **Ann Intern Med** 1974 Apr; 80(4):559

"Personal perspective" too personal? [letter; comment] **ASHA** 1990 May;32(5):3 Comment on: ASHA 1990 Jan;32(1):41–4.

A question of responsibility [letter] Lewis RH, et al. **Aust Fam Physician** 1990 Mar;19(3):417–8

Cancer Registry data [letter] Thornton–Jones H. **Br J Cancer** 1990 Jun;61(6):942

Double agent. Noakes J. **Br J Gen Pract** 1990 Mar; 40(332):92–3

Confidentiality, competing manuscripts and correspondence columns. International Committee of Medical Journal Editors [editorial] **Can Med Assoc J** 1989 Dec 1; 141(11):1131–2

Have you heard? [letter] McCormick WO. **Can Med Assoc J** 1989 Nov 1;141(9):875

Complete disclosure? [letter] Proctor SD. **Chest** 1990 May; 97(5):1279–80

Anonymous testing for HIV infection [letter] Stevens A, et al. **Community Med** 1989 Aug;11(3):260–1

Handling of confidentiality in general practice: a survey among general practitioners in The Netherlands. Lako CJ, et al. **Fam Pract** 1990 Mar;7(1):34–8

Summary of Hawaii law relating to HIV. **Hawaii Med J** 1990 Jul;49(7):236

APA opposes reporting names in cases of HIV [news] **Hosp Community Psychiatry** 1990 Feb;41(2):209

Voluntarily informing others of positive HIV test results: patterns of notification by infected gay men. Perry S, et al. **Hosp Community Psychiatry** 1990 May;41(5):549–51

Computers help keep patient files confidential. Hard R. **Hospitals** 1990 Aug 20;64(16):49–50

The role of confidential enquiries in the reduction of maternal mortality and alternatives to this approach. Cook R. **Int J Gynaecol Obstet** 1989 Sep;30(1):41–5

Why teenagers put rocks in their ears. Hidden drugs and confidentiality. Morris RE. **J Adolesc Health Care** 1989 Nov;10(6):548–50

Condom sense and privacy. Auth JB, et al. **J Am Coll Health** 1990 Jul;39(1):45–6

Confidentiality on the small campus: a counseling center perspective. Rockett GM. **J Am Coll Health** 1989 Nov; 38(3):148–50

Doctor–patient confidentiality and the adolescent patient. Chiodo GT, et al. **J Am Dent Assoc** 1990 Feb;120(2):126

Doctor–patient confidentiality and the potentially HIV–positive patient. Chiodo GT, et al. **J Am Dent Assoc** 1989 Nov;119(5):652–4

Confidentiality of veterinary medical records. Stanfill MH. **J Am Vet Med Assoc** 1990 Jul 1;197(1):48–9

Confidentiality in medical practice. Lako CJ, et al. **J Fam Pract** 1990 Aug;31(2):167–70

Confidants and companions in later life: the place of family and friends. Connidis IA, et al. **J Gerontol** 1990 Jul; 45(4):S141–9

When keeping secrets may cause harm. Ridsdale L. **J Med Ethics** 1990 Jun;16(2):81–2

Ethical guidelines for confidentiality. Colorado Society of Clinical Specialists in Psychiatric Nursing. **J Psychosoc Nurs Ment Health Serv** 1990 Mar;28(3):43–4

Needs of elderly people in residential homes [letter; comment] Coleman RD. **J R Coll Gen Pract** 1989 Oct; 39(327):434–5 Comment on: J R Coll Gen Pract 1989 Aug;39(325):335–7.

Reporting of HIV testing [letter] Harkess JR, et al. **JAMA** 1990 Jan 5;263(1):36–7

Medical records [letter] Olmstead CG. **Kans Med** 1989 Dec; 90(12):344

Examining the Royal Colleges' examiners [editorial] [see comments] **Lancet** 1990 Feb 24;335(8687):443–5 Comment in: Lancet 1990 Mar 24;335(8691):730–1. Comment in: Lancet 1990 Apr 14;335(8694):916. Comment in: Lancet 1990 Apr 28;335(8696):1040.

Anonymous HIV testing [editorial] **Lancet** 1990 Mar 10; 335(8689):575–6

The selling of patients' data [editorial] [see comments] **Lancet** 1989 Nov 4;2(8671):1078 Comment in: Lancet 1989 Dec 2;2(8675):1340.

Secrecy and product liability litigation. Brahams D. **Lancet** 1990 Sep 22;336(8717):737–8

Anonymous testing for HIV infection [letter] Mawson S, et al. **Lancet** 1990 Apr 7;335(8693):858–9

Prevalence of maternal HIV infection based on unlinked anonymous testing of newborn babies. Peckham CS, et al. **Lancet** 1990 Mar 3;335(8688):516–9

Who is the patient? A moral problem. Wachbroit R. **Md Med J** 1989 Nov;38(11):957–9 (7 ref.)

Practical issues and examples of data protection. Bakker AR. **Med Inf (Lond)** 1989 Jul–Sep;14(3):215–8

Security threats and trends in society. Roger FH. **Med Inf (Lond)** 1989 Jul–Sep;14(3):219–25

The hippocratic irrelevance variable (HIV). Dwyer JM. **Med J Aust** 1990 Feb 19;152(4):169–70

Confidential Tay–Sachs carrier screening [letter; comment] Rosner F. **N Y State J Med** 1989 Oct;89(10):585 Comment on: N Y State J Med 1989 Jun;89(6):317–9.

Openness and the Medical Council [letter] Anyon CP, et al. **N Z Med J** 1990 Aug 8;103(895):380–1

Cancer registration working group [letter] Cooke KR, et al. **N Z Med J** 1989 Sep 27;102(876):515

Truth telling, confidentiality, and the dying patient: new dilemmas for the nurse. High DM. **Nurs Forum** 1989; 24(1):5–10

AIDS and confidentiality. Kirkman MB, et al. **Nurs Forum** 1989;24(3–4):47–51

Confidentiality in medicine [editorial] Benatar SR. **S Afr Med J** 1990 Jul 7;78(1):1–2

AIDS and confidentiality [editorial] Lee NC. **S Afr Med J** 1990 Feb 17;77(4):176

AIDS and confidentiality [letter] Naude J. **S Afr Med J** 1990 Jul 7;78(1):43–4

Privacy between physicians and patients: more than a matter of confidentiality. Parrott R, et al. **Soc Sci Med** 1989; 29(12):1381–5

AIDS and UK respiratory physicians: attitudes to confidentiality, infection control, and management. Church S, et al. **Thorax** 1990 Jan;45(1):49–51

Questionable efficacy of confidential unit exclusion [letter] Busch MP, et al. **Transfusion** 1990 Sep;30(7):668–9

Confidential versus anonymous human immunodeficiency virus antibody testing [letter] [see comments] Hoffman RE, et al. **West J Med** 1990 Jan;152(1):75 Comment in: West J Med 1990 Jun;152(6):723–4.

Confidential and anonymous testing [letter; comment] Krajeski JP. **West J Med** 1990 Jun;152(6):723–4 Comment on: West J Med 1990 Jan;152(1):75.

[Limits of physicians' professional secrecy. Physicians' responsibility] Mogensen K. **Ugeskr Laeger** 1989 Oct 16; 151(42):2751 **(Dan)**

[Experience in conducting a health education program to prevent venereal and skin diseases over a confidential telephone line] Torbin ON. **Vestn Dermatol Venerol** 1989; (8):27–9 (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

AAFP issues joint guidelines on adolescent health care privacy. **Am Fam Physician** 1989 May;39(5):382

AIDS testing—prisoners—Dunn v. White. **Am J Law Med** 1989;15(4):522–4

Brief for bioethicists for privacy as amicus curiae supporting appellees. Annas GJ, et al. **Am J Law Med** 1989; 15(2–3):169–77

New extension of the Tarasoff decision [letter] Goldstein RL. **Am J Psychiatry** 1990 Sep;147(9):1250–1

AIDS and confidentiality: legal concept and its application in psychotherapy [letter] Perry S. **Am J Psychother** 1989 Jul;43(3):462

Confidentiality and informed consent and the acquired immunodeficiency syndrome epidemic. Lentz SL. **Arch Pathol Lab Med** 1990 Mar;114(3):304–8 (19 ref.)

Data protection in health information systems (HIS). Griesser G. **Biomed Tech (Berlin)** 1989;34 Suppl:16–9

Spying on psychiatrists: surreptitious surveillance of the forensic psychiatric examination by the patient himself. Goldstein RL. **Bull Am Acad Psychiatry Law** 1989; 17(4):367–72

Legislation proposed to protect physician "whistle blowers". Marvinney CA. **Colo Med** 1990 May;87(5):144–5

Medical records—sometimes you need to let go. Thompson MP. **Colo Med** 1990 Jan 1;87(1):11–3

AIDS related testing and confidentiality: Connecticut's new legislation. Schreiber JC. **Conn Med** 1989 Sep;53(9):515–9

Confidentiality of a patient [letter] Platt D. **Del Med J** 1989 Aug;61(8):429

Tarasoff in the therapeutic setting. Treadway J. **Hosp Community Psychiatry** 1990 Jan;41(1):88–9

Liability for medical record disclosure is real but rare. Weisman E. **Hospitals** 1990 Aug 20;64(16):28, 32

Legal authority for HIV testing of adolescents. North RL. **J Adolesc Health Care** 1990 Mar;11(2):176–87 (53 ref.)

Duty to warn: when should confidentiality be breached? Oppenheimer K, et al. **J Fam Pract** 1990 Feb;30(2):179–84 (22 ref.)

Patient confidentiality: legal ramifications. Caldwell JR. **J Fla Med Assoc** 1989 Jun;76(6):541–2

A proposed exception to the AIDS confidentiality laws for psychiatric patients. Botello TE, et al. **J Forensic Sci** 1990 May;35(3):653–60

The physician–patient privilege: the practical necessity of a written patient waiver. Biggs RA 3d, et al. **J Miss State Med Assoc** 1990 Apr;31(4):127–30

Ethics and ex parte discussions [editorial] Hawk JC 3d. **J S C Med Assoc** 1990 Mar;86(3):172–3

AIDS: the legal ramifications of nonconsensual, mandatory testing. Overlock ME. **J Tenn Med Assoc** 1990 Jul; 83(7):356–7

1990 AIDS legislation. Wheelen C. **Kans Med** 1990 Mar; 91(3):60, 78

Who owns patients' data? [see comments] Brahams. **Lancet** 1990 Jan 6;335(8680):39–40 Comment in: Lancet 1990 Feb 3;335(8684):296.

Two cases of HIV infection [news] Brahams D. **Lancet** 1990 Jan 13;335(8681):102

Confidentiality and the dangerous psychiatric patient. Brahams D. **Lancet** 1989 Dec 16;2(8677):1465

Confidential documents in HIV/haemophilia litigation. Brahams D. **Lancet** 1990 Sep 29;336(8718):805

Court–ordered secrecy and public health. Davis DL. **Lancet** 1990 Jul 21;336(8708):168

Current issues in data protection. Barber B. **Med Inf (Lond)** 1989 Jul–Sep;14(3):207–9

Computerization of medical records in hospitals: legal aspects. Iversen I, et al. **Med Inf (Lond)** 1989 Jul–Sep; 14(3):243–5

Data protection and automated medical records in Belgium. Roger FH. **Med Inf (Lond)** 1989 Jul–Sep;14(3):227–8

Current issues in data protection as they affect nursing both in the United Kingdom and generally. Scholes M. **Med Inf (Lond)** 1989 Jul–Sep;14(3):247–9

Council of Europe Convention on automatic data processing. Selmer KS. **Med Inf (Lond)** 1989 Jul–Sep;14(3):211–4

Australian standards for privacy and confidentiality of health records in research: implications of the Commonwealth Privacy Act. Berglund CA. **Med J Aust** 1990 Jun 18; 152(12):664–9

Incest: psychological, legal and ethical considerations. Rabinor J, et al. **Med Law** 1989;8(5):499–506 (23 ref.)

Dangerous patients. Third party safety and psychiatrists' duties—walking the Tarasoff tightrope. Mackay RD. **Med Sci Law** 1990 Jan;30(1):52–6

Drug use during pregnancy. New Minnesota law requires

doctors to test and report. Fortney DM. **Minn Med** 1990 Apr;73(4):41–3
Pregnancy & drugs. Physicians face new testing and reporting law. Jopke T. **Minn Med** 1990 Apr;73(4):29–32
Blood donor must answer questions. **N J Med** 1989 Aug; 86(8):592–3
Bad luck insurance [editorial] **Nature** 1990 Sep 20; 347(6290):214
Law to keep labels off genes [news] Davies K, et al. **Nature** 1990 Sep 20;347(6290):221
'Duty to warn' vs. 'patient confidentiality': the ethical dilemmas in caring for HIV-infected clients. Melroe NH. **Nurse Pract** 1990 Feb;15(2):58, 60, 65 passim
Drug screening, AIDS in work place among prominent issues at 1990 AOHC. Tanner M. **Occup Health Saf** 1990 Apr; 59(4):51
AIDS confidentiality bill closer to signing [news] **Pa Med** 1990 May;93(5):10
The ethics of informed consent: an overview. Plaut EA. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):435–8
Clinical flexibility and confidentiality: effects of reporting laws. Weinstock R, et al. **Psychiatr Q** 1989 Fall; 60(3):195–214
The rule of medical confidentiality v. the moral duty to warn an endangered third party. Taitz J. **S Afr Med J** 1990 Jul 7;78(1):29–33
Genetic privacy makes strange bedfellows [news] Miller SK. **Science** 1990 Sep 21;249(4975):1368
1989 SMA lecture. Rule on confidentiality and evidence in court. Coomaraswamy P. **Singapore Med J** 1989 Oct; 30(5):433–5
[Physician provides information to lawyer and Council for Child Protection without consent of person involved] **Ned Tijdschr Geneeskd** 1989 Aug 19;133(33):1658–9 **(Dut)**
[HIV testing and the medical obligation of confidentiality in the treatment of minors] Rieger HJ. **Dtsch Med Wochenschr** 1989 Nov 10;114(45):1765–6 **(Ger)**
[The physician's obligation of confidentiality and HIV infection. Consent of the patient for informing the consultant is required] Koch HG, et al. **Fortschr Med** 1990 Feb 28;108(6):110 **(Ger)**
[The medical forensic witness as an expert in criminal procedures] Hübner M. **Z Arztl Fortbild (Jena)** 1989; 83(23):1199–201 **(Ger)**
[Legal and ethical aspects related to AIDS] Bayer R, et al. **Bol Of Sanit Panam** 1990 May–Jun;108(5–6):473–88 (30 ref.) (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Patients' right to know [letter; comment] Rylance G. **BMJ** 1990 Mar 3;300(6724):608–9 Comment on: BMJ 1990 Jan 13;300(6717):118.
Filiation and secrecy in artificial insemination with donor. Matot JP, et al. **Hum Reprod** 1990 Jul;5(5):632–3
The secret side of AIDS. Guerrero S. **J Am Coll Health** 1990 Jul;39(1):49
Secrecy-related problems in AIDS management. Bor R, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):264–7
Two procedures to reduce response bias in reports of alcohol consumption. Werch CE. **J Stud Alcohol** 1990 Jul; 51(4):327–30
Consent, compulsion and confidentiality in relation to testing for HIV infection: the views of WA doctors. Grove DI, et al. **Med J Aust** 1990 Feb 19;152(4):174–8
Addict beliefs about access to HIV test results. Calsyn DA, et al. **NIDA Res Monogr** 1989;95:417
From the CDC. Partner notification and confidentiality of the index patient: its role in preventing HIV. Cates W Jr, et al. **Sex Transm Dis** 1990 Apr–Jun;17(2):113–4
Keeping secrets: social workers and AIDS. Abramson M. **Soc Work** 1990 Mar;35(2):169–73
Intimacy and confidentiality in psychotherapeutic relationships [see comments] Lipkin R. **Theor Med** 1989 Dec;10(4):311–30 Comment in: Theor Med 1989 Dec;10(4):331–7.

CONFLICT (PSYCHOLOGY)

Moral dilemmas in medical school admission. Self DJ. **Acad Med** 1990 Mar;65(3):179–83
Effect of angiotensin II on the Vogel conflict paradigm and on the content of dopamine and noradrenaline in rat brain. Georgiev V, et al. **Acta Physiol Pharmacol Bulg** 1990; 16(1):32–7
Effect of conflicting cues on information processing: the 'Stroop effect' vs. the 'Simon effect'. Simon JR, et al. **Acta Psychol (Amst)** 1990 Mar;73(2):159–70
Ethanol and chronic diazepam interactions on conflict behavior in rats. Dalterio SL, et al. **Alcohol** 1989 Sep–Oct; 6(5):409–14
A conflict procedure not requiring deprivation: evidence that chronic ethanol treatment induces tolerance to the anticonflict action of ethanol and chlordiazepoxide. Criswell HE, et al. **Alcoholism (N Y)** 1989 Oct;13(5):680–5
Positive justice reasoning in deaf and hearing children before and after exposure to cognitive conflict. Peterson CC, et al. **Am Ann Deaf** 1989 Oct;134(4):277–82
Supportive and problematic social interactions: a social network analysis. Brenner GF, et al. **Am J Community Psychol** 1989 Dec;17(6):831–6
Ongoing postdivorce conflict: effects on children of joint custody and frequent access. Johnston JR, et al. **Am J Orthopsychiatry** 1989 Oct;59(4):576–92
From conflict to suicide: the inner turmoil of Quentin Compson. Butery KA. **Am J Psychoanal** 1989 Sep; 49(3):211–24
Anticonflict effect of caffeine: investigation by punishment and hypertonic NaCl solution procedures in mice. Kuribara H, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Jun; 24(3):144–53
Family cohesion, expressiveness and conflict in alcoholic families. Barry KL, et al. **Br J Addict** 1990 Jan;85(1):81–7
Moral balance: the effect of prior behaviour on decision in moral conflict. Nisan M, et al. **Br J Soc Psychol** 1990 Mar; 29 (Pt 1):29–42
Reaching to a rewarded visual stimulus: interhemispheric conflict and hand use in monkeys with forebrain commissurotomy. Eacott MJ, et al. **Brain** 1989 Oct;112 (Pt 5):1215–30
Family-staff conflict in the rehabilitation setting: causes, consequences, and implications. Shaw LR, et al. **Brain Inj** 1990 Jan–Mar;4(1):87–93 (49 ref.)
A study of families in high-conflict custody disputes: effects of psychiatric evaluation. Simons VA, et al. **Bull Am Acad Psychiatry Law** 1990;18(1):85–97
Motion sickness: a synthesis and evaluation of the sensory conflict theory. Oman CM. **Can J Physiol Pharmacol** 1990 Feb;68(2):294–303 (51 ref.)
The effect of hospital control strategies on physician satisfaction and physician–hospital conflict. Burns LR, et al. **Health Serv Res** 1990 Aug;25(3):527–60
A case of administrative conflict: observations on the dynamic framework. Thienhaus OJ. **Hillside J Clin Psychiatry** 1989;11(1):69–79
Cognitive strategies in hypnosis: toward resolving the hypnotic conflict. Bartis SP, et al. **Int J Clin Exp Hypn** 1990 Jul;38(3):168–82
Female genital anxieties, conflicts and typical mastery modes. Bernstein D. **Int J Psychoanal** 1990;71 (Pt 1):151–65
An examination of the differential relationship of marital discord to parents' discipline strategies for boys and girls. Dadds MR, et al. **J Abnorm Child Psychol** 1990 Apr; 18(2):121–9
Marital discord and child behavior problems: a meta-analysis. Reid WJ, et al. **J Abnorm Child Psychol** 1990 Feb; 18(1):105–17
Psychosomatic avoidance of conflict in back pain. Coen SJ, et al. **J Am Acad Psychoanal** 1989 Fall;17(3):359–76
Intolerance of responsibility for internal conflict. Coen SJ. **J Am Psychoanal Assoc** 1989;37(4):943–64
Alpha 1- and beta-adrenoceptor stimulation potentiate the anticonflict effect of a benzodiazepine. Söderpalm B, et al. **J Neural Transm Gen Sect** 1990;79(3):155–67
Using structured controversy to promote ethical decision making [published erratum appears in J Nurs Educ 1990 May;29(5):240] Pederson C, et al. **J Nurs Educ** 1990 Apr; 29(4):150–7
Is parent-offspring conflict sex-linked? Freudian and Darwinian models. Daly M, et al. **J Pers** 1990 Mar; 58(1):163–89 (140 ref.)
Conflict over emotional expression: psychological and physical correlates. King LA, et al. **J Pers Soc Psychol** 1990 May;58(5):864–77
Differential effects of the CCK antagonist, MK-329, on analgesia induced by morphine, social conflict (opioid) and defeat experience (non-opioid) in male mice. Hendrie CA, et al. **Neuropharmacology** 1989 Oct;28(10):1025–32
Conflict behavior and dynamics of monoamines of various brain nuclei in rats. Sakurai-Yamashita Y, et al. **Neuropharmacology** 1989 Oct;28(10):1067–73
Neuroanatomical substrates regulating rat conflict behavior evidenced by brain lesioning. Yamashita K, et al. **Neurosci Lett** 1989 Sep 25;104(1–2):195–200
Observation, objectivity, and the conflict of ideas. Furedy JJ. **Pavlov J Biol Sci** 1990 Jan–Mar;25(1):29–31
Screening adolescents for depression and parent-teenager conflict in an ambulatory medical setting: a preliminary investigation. Schubiner H, et al. **Pediatrics** 1990 May; 85(5):813–8
Conceptual tempo and resolution of social conflict by children. Boyer WN, et al. **Percept Mot Skills** 1990 Feb; 70(1):225–6
Effect of auditory presentation of words on color naming: the intermodal Stroop effect. Shimada H. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1155–61
Effects of dexfenfluramine on the feeding behavior of rats foraging in the cold for palatable bait. Cabanac M, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1025–31
Proconflict effect of ACTH1-24: interaction with benzodiazepines. Corda MG, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):631–4
Latency to enter a mirrored chamber: a novel behavioral assay for anxiolytic agents. Toubas PL, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):121–6
The SHR exhibits less "anxiety" but increased sensitivity to the anticonflict effect of clonidine compared to normotensive controls. Söderpalm B. **Pharmacol Toxicol** 1989 Nov;65(5):381–6
Coping with social conflict, and short-term changes of plasma cortisol titers in familiar and unfamiliar environments. Haemisch A. **Physiol Behav** 1990 Jun; 47(6):1265–70
Revolving the conflict of training and therapy in psychiatry. O'Reilly RL, et al. **Psychiatr J Univ Ott** 1990 Mar; 15(1):28–31
Coping with conflict situations: middle-aged and elderly men. Feifel H, et al. **Psychol Aging** 1989 Mar;4(1):26–33
Violent tactics in family conflict relative to familial and economic factors. Cantrell PJ, et al. **Psychol Rep** 1990 Jun; 66(3 Pt 1):823–8
Measures of shame and conflict tactics: effects of questionnaire order. Faulkner KK, et al. **Psychol Rep** 1990 Jun;66(3 Pt 2):1217–8
Effects of acute or chronic carbamazepine on experimentally-induced conflict in the rat. Almeida RN, et al. **Psychopharmacology (Berl)** 1990;100(2):227–9
Benzodiazepine anti-conflict effects in Maudsley reactive (MR/Har) and non-reactive (MNRA/Har) rats. Commissaris RL, et al. **Psychopharmacology (Berl)** 1990; 100(3):287–92
Anti-conflict efficacy of buspirone following acute versus chronic treatment. Schefke DM, et al. **Psychopharmacology (Berl)** 1989;99(3):427–9
'I beg to differ': conflict in the interdisciplinary team. Sands RG, et al. **Soc Work Health Care** 1990;14(3):55–72
[A psychopathologic conflict in the 18th century in the East Indies Squadron] Alliez J, et al. **Ann Med Psychol (Paris)** 1989 Nov;147(9):915–33 (Eng. Abstr.) **(Fre)**
[Maximization of pleasure, the answer to a conflict of motivations] Cabanac M. **C R Acad Sci [III]** 1989; 309(10):397–402 (Eng. Abstr.) **(Fre)**
[Change in the central relationship conflict by short-term therapy] Kächele H, et al. **Psychother Psychosom Med Psychol** 1990 May;40(5):178–85 (Eng. Abstr.) **(Ger)**
[Change in conflict management in inpatient psychotherapy. A psychometric study of defense behavior] Liedtke R, et al. **Z Psychosom Med Psychoanal** 1990;36(1):79–88 (Eng. Abstr.) **(Ger)**
[The structure and patterns of support in the encounters of the brown macaque (Macaca arctoides)] Butovskaia ML, et al. **Biol Nauki** 1989;(10):64–70 (Eng. Abstr.) **(Rus)**
[Effects of heptapeptide of the tuftsin group with nootropic components of action and piracetam on formation of escape reaction in normal conditions and in conflict situation] Inozemtsev AN, et al. **Biull Eksp Biol Med** 1990 May; 109(5):445–6 (Eng. Abstr.) **(Rus)**
[The structure of the temporal organization of respiration in rabbits under conditions of a conflict situation] Kromin AA, et al. **Zh Vysh Nerv Deiat** 1989 May–Jun;39(3):558–60 **(Rus)**

CONFORMITY, SOCIAL see **SOCIAL CONFORMITY**

CONFOUNDING FACTORS (EPIDEMIOLOGY)

A flexible approach for the decomposition of rate differences. Liao TF. **Demography** 1989 Nov;26(4):717–26
An alternative purging method: controlling the composition-dependent interaction in an analysis of rates. Xie Y. **Demography** 1989 Nov;26(4):711–6
The effect of measurement errors in confounders on adjustment [letter] Nagelkerke NJ, et al. **Int J Epidemiol** 1989 Sep;18(3):732–3
Covariance analysis in generalized linear measurement error models [letter; comment] Senn S. **Stat Med** 1990 May; 9(5):583–6 Comment on: Stat Med 1989 Sep;8(9):1075–93; discussion 1107–8.

CONFUSION see under **COGNITION DISORDERS**

CONGENITAL DEFECTS see **ABNORMALITIES**

CONGESTIVE CARDIOMYOPATHY see **CARDIOMYOPATHY, CONGESTIVE**

CONGLUTINATION REACTION see under **COMPLEMENT FIXATION TESTS**

CONGLUTINOGEN ACTIVATING FACTORS see **COMPLEMENT 3B INACTIVATORS**

CONGO RED

DIAGNOSTIC USE

Use of endoscopic Congo red test in the evaluation of ulcer recurrence risks after proximal gastric vagotomy. A new interpretive method. de Miranda MP, et al. **Surg Endosc** 1989;3(4):182–5

METABOLISM

A 101-kilodalton heme-binding protein associated with congo red binding and virulence of Shigella flexneri and enteroinvasive Escherichia coli strains. Stugard CE, et al. **Infect Immun** 1989 Nov;57(11):3534–9

CONGO VIRUS see under **BUNYAVIRIDAE**

CONGO VIRUS INFECTION see **HEMORRHAGIC FEVER, CRIMEAN**

CONGRESSES

Investigation into the educational process of cancer case conferences. Nyquist JG, et al. **Acad Med** 1990 Sep;65(9 Suppl):S35–6

Medical seminar in Ghana [letter] Gyamfi YA. **Am J Hosp Pharm** 1990 Jul;47(7):1529–30

International conferences: are they any use? [editorial] Wright V. **Ann Rheum Dis** 1990 Jun;49(6):344–5

European Charter on Environment and Health (First European Conference on Environment and Health, Frankfurt, 7–8 December 1989). **Arch Environ Health** 1990 Jul–Aug;45(4):199–201

European countries discuss environmental health [editorial] Grandjean P. **Arch Environ Health** 1990 Jul–Aug;45(4):198

Opportunities unexplored. The tumor conference [editorial] Henson DE. **Arch Pathol Lab Med** 1990 Jun;114(6):565

Soviet symposium on speech pathology. Yairi E. **ASHA** 1990 May;32(5):43

US relaxes visa restrictions [news] Groves T. **BMJ** 1990 May 5;300(6733):1156

Travel to a conference (obtaining funding). Tan KC, et al. **BMJ** 1989 Dec 9;299(6713):1450–1

Meeting on AIDs in the Americas [news] **Bull Pan Am Health Organ** 1989;23(3):305

1989 guidelines for the management of mild hypertension: memorandum from a WHO/ISH meeting. **Bull World Health Organ** 1989;67(5):493–8

The ethics of accepting "free" gifts at conventions [editorial] Rosner F. **Cancer Invest** 1989;7(3):295–6

Practical approaches to scientific presentation. Lin YC. **Chin J Physiol** 1989;32(2):71–80

Why so many congresses? Do we really have to go to this one? [editorial] Hugenholtz PG. **Eur Heart J** 1990 May; 11(5):378–9

To publish or not to publish. Flanagin A. **Hastings Cent Rep** 1989 Sep–Oct;19(5):2–3

The conference proceedings: a white elephant. Schwartz RS. **Immunol Today** 1990 Apr;11(4):112–3

Why so many congresses? Do we really have to go to this one? [editorial] Hugenholtz PG. **Int J Cardiol** 1990 Aug; 28(2):137–8

WHO: getting teachers involved in AIDS prevention [news] **Int Nurs Rev** 1990 Mar–Apr;37(2):227

France: AIDS and the workplace [news] **Int Nurs Rev** 1990 May–Jun;37(3):256–7

ICN: African NNAs prepare for AIDS campaign [news] **Int Nurs Rev** 1990 Mar–Apr;37(2):224

WHO: World AIDS Day to focus on women [news] **Int Nurs Rev** 1990 Mar–Apr;37(2):226

International experts study AIDS and human rights [news] **Int Nurs Rev** 1990 Mar–Apr;37(2):224

The changing challenges of critical care [editorial] Knaus WA. **Intensive Care Med** 1989;15(7):415–6

The clinico–pathological conference. Evans DJ. **Invest Cell Pathol** 1978 Apr–Jun;1(2):119–21

Current report—HIV 1989 International Conference on AIDS—Montreal. Goldschmidt RH. **J Am Board Fam Pract** 1989 Oct–Dec;2(4):283–6

The Sixth International Conference on AIDS [news] **J Am Osteopath Assoc** 1990 Aug;90(8):676

Third International Conference on Surgical Rehabilitation of the Upper Limb in Tetraplegia (quadriplegia). Moberg E, et al. **J Hand Surg [Am]** 1989 Nov;14(6):1064–6

The Sixth International AIDS Conference: a week of hope and protest [news] Mahaney FX Jr. **J Natl Cancer Inst** 1990 Aug 1;82(15):1240–2

The first international conference on the Palliative Care of the Elderly: an overview. Ryan DP, et al. **J Palliat Care** 1989 Dec;5(4):40–2

Do educational conferences educate? [editorial] Stone S. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):197–8

Milestones in nursing history. Donahue MP. **J Prof Nurs** 1990 Mar–Apr;6(2):72

Topics of nursing research as presented at two international conferences. Glittenbereg JE. **J Prof Nurs** 1990 Jan–Feb; 6(1):8, 64

Fixing splits [editorial] Smoyak SA. **J Psychosoc Nurs Ment Health Serv** 1990 Aug;28(8):3

Scientific surgical meetings: why do we need them? Stiles QR. **J Thorac Cardiovasc Surg** 1990 Apr;99(4):577–80

My personal thoughts on the recent joint U.S./Japan cancer meeting in Honolulu, Hawaii [letter] Loeb LA. **Jpn J Cancer Res** 1989 Oct;80(10):1014–5

Reprieve for AIDS conference. **Lancet** 1990 May 5; 335(8697):1090

Notes from Egypt [editorial] Sessions DG. **Mo Med** 1990 May;87(5):279–80

Continuous cell lines as substrates for biologicals: report of a joint meeting of WHO, IABS (cell Culture Committee Subsection), and ESACT. Spier RE. **Mol Biother** 1988; 1(2):114–5

International AIDS conference [news] **N Z Med J** 1990 Jul 25;103(894):358

More AIDS turmoil [editorial] **Nature** 1990 Mar 29; 344(6265):365–6

AIDS conferences. US eases controversial visa restrictions [news] Anderson GC. **Nature** 1990 Apr 19;344(6268):694

AIDS conference. European Parliament backs boycott [news] Coles P. **Nature** 1990 Jan 25;343(6256):297

Conferences. Meetings in north and south [news] Ewing T, et al. **Nature** 1990 Feb 22;343(6260):683

Soviet doors opening up [news] Robertson M. **Nature** 1990 May 24;345(6273):281

AIDS meeting: visas [news] **Science** 1990 Apr 20; 248(4953):306

Researchers look ahead to AIDS meeting [news] Barinaga M. **Science** 1990 Jun 8;248(4960):1180–2

Will protests derail AIDS meeting? [news] Cherfas J. **Science** 1990 Apr 6;248(4951):26

[International Convention on Children's Rights] Mozziconacci P. **Ann Pediatr (Paris)** 1990 Jan;37(1):7–8 (Fre)

[German AIDS congress, Berlin (West), 23 to 24 January 1989] Baumgarten R. **Z Arztl Fortbild (Jena)** 1989; 83(15):793–6 (Ger)

[The 6th International AIDS Congress in Montreal 4–9 June 1989] Bendick C, et al. **Z Hautkr** 1989 Sep 15;64(9):734 (Eng. Abstr.) (Ger)

[Report of the IV international conference on the subject of AIDS, Stockholm June 12–16, 1988] **Przegl Dermatol** 1989 Jan–Mar;76(1):3 (Pol)

ECONOMICS

Sponsorship [letter] Smith PA. **Br Dent J** 1990 Feb 24; 168(4):137

HISTORY

A brief history of IALP. International Association of Logopedics and Phoniatrics. de Montfort M. **ASHA** 1990 May;32(5):33–5

[Lichen planus and lichenoid eruptions. The 1889 Congress] Grosshans E. **Ann Dermatol Venereol** 1989;116(12):925–9 (Fre)

[History of the Travelling Congress of Hungarian Physicians and Naturalists in the city of Pécs] Süle T. **Orv Hetil** 1990 Jan 14;131(2):81–3 (Hun)

[Surgeons' congresses and the journal "Vestnik khirurgii"] **Vestn Khir** 1990 Jan;144(1):3–6 (Rus)

ORGANIZATION & ADMINISTRATION

Look after a visiting speaker. Hoyte P. **BMJ** 1989 Oct 14; 299(6705):963–4

How to organise a medical symposium for general practitioners. Wright DJ. **BMJ** 1990 Mar 24; 300(6727):799–801

Third World reporters a new feature of international AIDS conferences. Hale J. **Can Med Assoc J** 1989 Nov 15; 141(10):1085–6

Boycott casts shadow over San Francisco AIDS conference. Orkin A. **Can Med Assoc J** 1990 Jun 15;142(12):1411–3

AIDS, San Francisco [news] Gelmon K. **Lancet** 1990 Jun 30;335(8705):1581–2

Congress content [letter] Drummond F. **Vet Rec** 1989 Sep 23;125(13):356

[Prospective for nursing congresses] Fernández Undiano A. **Rev Sanid Hig Publica (Madr)** 1989 May–Jun;63(5–6):91–8 (Eng. Abstr.) (Spa)

STANDARDS

1989 International Association of Oral and Maxillofacial Surgeons Meeting in Jerusalem [letter] Piecuch JF. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):54

Too much marketing of new products [letter] Gongloff RK. **Oral Surg Oral Med Oral Pathol** 1990 May;69(5):563

STATISTICS & NUMERICAL DATA

Results of a national survey of characteristics of hospital tumor conferences. Henson DE, et al. **Surg Gynecol Obstet** 1990 Jan;170(1):1–6

[Conferences of the inter-regional neurosurgical centers of the RSFSR] Kondakov EN, et al. **Zh Vopr Neirokhir** 1990 Mar–Apr;(2):35–6 (Rus)

CONJUGATION, GENETIC

Genetic properties of plasmids isolated from pathogenic strain of Citrobacter freundii. Morzejko E, et al. **Acta Microbiol Pol** 1989;38(2):159–70

Mobilization of R387 Inc K conjugative plasmid by the conjugative plasmid R64 Inc I. Rem–Czosnyka R, et al. **Acta Microbiol Pol** 1989;38(2):107–15

Methods for studying bacterial gene transfer in soil by conjugation and transduction. Stotzky G, et al. **Adv Appl Microbiol** 1990;35:57–169 (194 ref.)

The conjugative plasmid pTR2030 encodes two bacteriophage defense mechanisms in lactococci, restriction modification (R+/M+) and abortive infection (Hsp+). Hill C, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2416–9

DNA–DNA homology among lactose- and sucrose-fermenting transconjugants from Lactococcus lactis strains exhibiting reduced bacteriophage sensitivity. Steele JL, et al. **Appl Environ Microbiol** 1989 Sep; 55(9):2410–3

Rapid Hfr mapping of Mu dlac fusions. Peruski LF Jr. **Biotechniques** 1990 Jul;9(1):40, 42

Excision and insertion of the conjugative transposon Tn916 involves a novel recombination mechanism. Caparon MG, et al. **Cell** 1989 Dec 22;59(6):1027–34

FUS3 encodes a cdc2+/CDC28-related kinase required for the transition from mitosis into conjugation. Elion EA, et al. **Cell** 1990 Feb 23;60(4):649–64

Relationship of staphylococcal conjugative plasmids to large gentamicin-resistance nonconjugative plasmids in clinical isolates of Staphylococcus epidermidis. Rogolsky M, et al. **Diagn Microbiol Infect Dis** 1990 May–Jun;13(3):227–34

Movable genetic elements and antibiotic resistance in enterococci. Clewell DB. **Eur J Clin Microbiol Infect Dis** 1990 Feb;9(2):90–102 (142 ref.)

Cytochemical studies of conjugation in Paramecium aurelia. Woodard J, et al. **Exp Cell Res** 1966 Jan;41(1):55–63

Amino acid sequence of pheromone-inducible surface protein in Enterococcus faecalis, that is encoded on the conjugative plasmid pPD1. Nakayama J, et al. **FEBS Lett** 1990 Jul 2; 267(1):81–4

Plasmid-mediated conjugative transfer of Klebsiella sp. rcs genesable to induce colanic acid capsular polysaccharide biosynthesis in Escherichia coli. Allen PM, et al. **FEMS Microbiol Immunol** 1988 Jan;1(1):19–25

Conjugative transfer of a shuttle plasmid for Escherichia coli to Mycobacterium smegmatis. Lazraq R, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):135–8

Transfer and expression of the tetracycline resistance transposon Tn925 in Acetobacterium woodii. Strätz M, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1–2):171–6

Molecular genetic analysis of bacterial plasmid promiscuity. Krishnapillai V. **FEMS Microbiol Rev** 1988 Sep;4(3):223–37 (85 ref.)

Development of a shuttle vector and a conjugative transfer system for Actinobacillus pleuropneumoniae. Lalonde G, et al. **Gene** 1989 Dec 21;85(1):243–6

Conjugal transfer of gonococcal beta-lactamase and conjugative plasmids to Neisseria meningitidis. Brett MS. **J Antimicrob Chemother** 1989 Dec;24(6):875–9

Ti plasmid-controlled chromosome transfer in Agrobacterium tumefaciens. Dessaux Y, et al. **J Bacteriol** 1989 Nov;171(11):6363–6

Properties of new Escherichia coli Hfr strains constructed by integration of pSC101-derived conjugative plasmids. François V, et al. **J Bacteriol** 1990 Mar;172(3):1436–40

vir genes influence conjugal transfer of the Ti plasmid of Agrobacterium tumefaciens. Gelvin SB, et al. **J Bacteriol** 1990 Mar;172(3):1600–8

Structure and function of conjugative pili: monoclonal antibodies as probes for structural variants of F pili. Grossman TH, et al. **J Bacteriol** 1990 Mar;172(3):1174–9

Detection of conjugal transfer systems in oral, black-pigmented Bacteroides spp. Guiney DG, et al. **J Bacteriol** 1990 Jan;172(1):495–7

Transfer region of IncI1 plasmid R64 and role of shufflon in R64 transfer. Komano T, et al. **J Bacteriol** 1990 May; 172(5):2230–5

Genetic analysis of the conjugal transfer determinants encoded by the streptococcal broad-host-range plasmid pIP501. Krah ER 3d, et al. **J Bacteriol** 1989 Nov; 171(11):6005–12

Genetic exchange of transposon and integrative plasmid markers in Mycoplasma pulmonis. Mahairas GG, et al. **J Bacteriol** 1990 May;172(5):2267–72

Characterization of the F-plasmid conjugative transfer gene traU. Moore D, et al. **J Bacteriol** 1990 Aug;172(8):4263–70

High-frequency conjugal plasmid transfer from gram-negative Escherichia coli to various gram-positive coryneform bacteria. Schäfer A, et al. **J Bacteriol** 1990 Mar;172(3):1663–6

Mobilization of closely related plasmids pUB110 and pBC16 by Bacillus plasmid pXO503 requires trans-acting open reading frame beta. Selinger LB, et al. **J Bacteriol** 1990 Jun;172(6):3290–7

A cryptic 65-kilobase-pair transposonlike element isolated from Bacteroides uniformis has homology with Bacteroides conjugal tetracycline resistance elements. Shoemaker NB, et al. **J Bacteriol** 1990 Apr;172(4):1694–702

Virulence genes promote conjugative transfer of the Ti plasmid between Agrobacterium strains. Steck TR, et al. **J Bacteriol** 1990 Apr;172(4):2191–3

The region of a Bacteroides conjugal chromosomal tetracycline resistance element which is responsible for production of plasmidlike forms from unlinked chromosomal DNA might also be involved in transfer of the element. Stevens AM, et al. **J Bacteriol** 1990 Aug; 172(8):4271–9

Conjugal mobilization of streptococcal plasmid pMV158 between strains of Lactococcus lactis subsp. lactis. van der Lelie D, et al. **J Bacteriol** 1990 Jan;172(1):47–52

Role of outer-membrane proteins and lipopolysaccharide in conjugation between Neisseria gonorrhoeae and Neisseria cinerea. Genco CA, et al. **J Gen Microbiol** 1988 Dec;134 (Pt 12):3285–94

Factors affecting conjugal transfer of plasmids encoding mercury resistance from pure cultures and mixed natural suspensions of epilithic bacteria. Rochelle PA, et al. **J Gen Microbiol** 1989 Feb;135 (Pt 2):409–24

Dynamics of plasmid transfer on surfaces. Simonsen L. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1001–7

Conjugative plasmid transfer from Escherichia coli to Clostridium acetobutylicum. Williams DR, et al. **J Gen Microbiol** 1990 May;136 (Pt 5):819–26

The deconjugation ability of bacteria isolated from the jejunal fluids in the blind loop syndrome with high 14CO2 excretion—using the breath analysis technique and thin-layer chromatography. Shindo K, et al. **Life Sci** 1989; 45(24):2275–83

Assessing the risks of releasing recombinant Streptomyces in soil. Rafii F, et al. **Microbiol Sci** 1988 Dec;5(12):358–62 (31 ref.)
Isolation of a high frequency donor of Rhodobacter capsulatus by integration of the plasmid pMT1000 into the chromosome. Bianco G, et al. **Microbiologia** 1989 Jun; 5(1):57–60
Stability of conjugative and non–conjugative R–plasmids from Serratia marcescens to gyrase inhibitors. Llanes C, et al. **Microbiologica** 1990 Apr;13(2):157–9
Influence of several experimental parameters on inter and intra specific mating process efficiency. Sambri V, et al. **Microbiologica** 1989 Oct;12(4):323–8
Nucleotide sequence of the leading region adjacent to the origin of transfer on plasmid F and its conservation among conjugative plasmids. Loh S, et al. **Mol Gen Genet** 1989 Oct;219(1–2):177–86
Genetic functions and cell–cell interactions in the pheromone–inducible plasmid transfer system of Enterococcus faecalis. Dunny GM. **Mol Microbiol** 1990 May;4(5):689–96 (38 ref.)
Recombination between directly repeated origins of conjugative transfer cloned in M13 bacteriophage DNA models ligation of the transferred plasmid strand. Barlett MM, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3579–86
Nucleotide sequence of the erythromycin resistance gene of the conjugative transposon Tn1545. Trieu–Cuot P, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3660
A gene from S. pombe with homology to E. coli RNAse III blocks conjugation and sporulation when overexpressed in wild type cells. Xu HP, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5304
Transfer of Tn1545 and Tn916 to Clostridium acetobutylicum. Woolley RC, et al. **Plasmid** 1989 Sep; 22(2):169–74
Initiation of DNA synthesis in the transfer origin region of RK2 by the plasmid–encoded primase: detection using defective M13 phage. Yakobson E, et al. **Plasmid** 1990 Jan; 23(1):80–4
In vitro assembly of relaxosomes at the transfer origin of plasmid RP4. Pansegrau W, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6555–9
Conjugation system of IncC plasmid RA1, and the interaction of RA1 pili with specific RNA phage C–1. Bradley DE. **Res Microbiol** 1989 Sep;140(7):439–46
Tn5030: a conjugative transposon conferring clindamycin resistance in Bacteroides species. Halula M, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S235–42
Kissing cousins. A DNA repair system stops species from interbreeding. Rennie J. **Sci Am** 1990 Feb;262(2):22–3
Acquisition of beta–lactamase and TetM–containing conjugative plasmids by phenotypically different strains of Neisseria gonorrhoeae. Sarafian SK, et al. **Sex Transm Dis** 1990 Apr–Jun;17(2):67–71
[The conjugative transfer of beta–hemolysin plasmid in Enterococcus faecalis to Enterococcus faecium] Ohno A. **Kansenshogaku Zasshi** 1990 Apr;64(4):436–43 (Eng. Abstr.) **(Jpn)**
[Membrane potential of E. coli recipient cells determines the rate of linear transport of DNA during conjugation] Berzhinskene IaA, et al. **Biokhimiia** 1989 Sep;54(9):1520–5 (Eng. Abstr.) **(Rus)**
[The effect of mating conditions on the effectiveness of transmitting RP4 plasmids in Pseudomonas mallei] Ageeva NP, et al. **Mikrobiol Zh** 1986 Sep–Oct;48(5):3–6 (Eng. Abstr.) **(Rus)**
[Conjugation transfer of the pAMbeta1 plasmid to Bacillus anthracis] Puzanova OB, et al. **Mol Gen Mikrobiol Virusol** 1990 Apr;(4):19–21 (Eng. Abstr.) **(Rus)**
[Transduction and conjugation transfer of the pXO2 plasmid in Bacillus anthracis] Stepanov AS, et al. **Mol Gen Mikrobiol Virusol** 1989 Dec;(12):39–43 (Eng. Abstr.) **(Rus)**

GENETICS

Conjugational cotransfer of IncFI and IncI conjugative plasmids forming aggregate in a pathogenic Citrobacter freundii strain. Morzejko E, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1–2):7–11
[The conjugational transfer of plasmids to Legionella strains] Marakusha BI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Feb;(2):20–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Asymmetrical cell division in Blepharisma japonicum: difference between daughter cells in mating–type expression. Miyake A, et al. **Exp Cell Res** 1990 Sep; 190(1):65–8
Transfer of beta–lactamase plasmids by conjugation in Neisseria gonorrhoeae. Ison CA, et al. **Genitourin Med** 1990 Apr;66(2):82–6
Nucleotide sequence of the promoter–distal region of the tra operon of plasmid R100, including traI (DNA helicase I) and traD genes. Yoshioka Y, et al. **J Mol Biol** 1990 Jul 5;214(1):39–53
Transferable plasmid–mediated antibiotic resistance in Listeria monocytogenes. Poyart–Salmeron C, et al. **Lancet** 1990 Jun 16;335(8703):1422–6
[Conjugation in group A streptococci] Ravdonikas LE. **Vestn Akad Med Nauk SSSR** 1989;(11):49–54 (Eng. Abstr.) **(Rus)**

CONJUNCTIVA

Repair of a leaking bleb with fibrin glue. Kajiwara K. **Am J Ophthalmol** 1990 May 15;109(5):599–601

ABNORMALITIES

Winglets of the eye: dominant transmission of early adult pterygium of the conjunctiva. Hecht F, et al. **J Med Genet** 1990 Jun;27(6):392–4

ANALYSIS

Neoglycoprotein binding distinguishes distinct zones in the epithelia of the porcine eye. Lange W, et al. **J Anat** 1989 Oct;166:243–52
Conjunctival cell glycoprotein pattern of healthy persons and of patients with primary Sjögren's syndrome—light microscopical investigation using lectin probes. Prause JU, et al. **J Autoimmun** 1989 Aug;2(4):495–500

BLOOD SUPPLY

Hemorheologic abnormalities in patients with human immunodeficiency virus infection and ophthalmic microvasculopathy. Engstrom RE Jr, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):153–61
Use of conjunctival oxygen index for evaluation of cardiac output in dogs. Faulkner JE, et al. **Am J Vet Res** 1989 Sep;50(9):1516–9
Transconjunctival oxygen index in healthy awake dogs. Faulkner JE, et al. **Am J Vet Res** 1989 Sep;50(9):1520–2
Prediction of changing cerebral blood flow by use of the conjunctival oxygen tension/arterial oxygen tension index [published erratum appears in Crit Care Med 1990 Jun;18(6):688] Rutherford WF, et al. **Crit Care Med** 1989 Dec;17(12):1328–32
A primate model of anterior segment ischemia after strabismus surgery. The role of the conjunctival circulation. Fishman PH, et al. **Ophthalmology** 1990 Apr;97(4):456–61
[The function of the microcirculatory bed of the bulbar conjunctiva in patients who have had a minor stroke against a background of the labile form of arterial hypertension] Bardin AI. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):58–60 **(Rus)**
[Relation between microcirculatory disorders and coronary circulation in patients with a history of myocardial infarction (clinico– angiographic study)] Tepliakov AT, et al. **Kardiologiia** 1990 Apr;30(4):18–22 (Eng. Abstr.) **(Rus)**
[The use of conjunctival biomicroscopy and liquid–crystal thermography in diabetes mellitus in children and adolescents] Krishchenko OP, et al. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):37–40 (Eng. Abstr.) **(Rus)**
[Disorders of blood coagulation and microcirculation in diabetics] Titova SI, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):3–7 (Eng. Abstr.) **(Rus)**
[Microcirculatory function in various clinical forms of HB and HD viral infections] Nikiforov ND, et al. **Ter Arkh** 1989;61(11):31–4 (Eng. Abstr.) **(Rus)**
[Dynamic microcirculatory disorders in patients with nonspecific lung diseases during the autotransfusion of ultraviolet–irradiated blood] Kravtsova NA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Jul–Aug;(4):21–3 (Eng. Abstr.) **(Rus)**
[Disorders of microcirculation and myocardial function in primary pulmonary hypertension and Eisenmenger's syndrome] Konopleva LF, et al. **Vrach Delo** 1989 Aug; (8):9–11 (Eng. Abstr.) **(Rus)**
[Cardiohemodynamics and microcirculation in patients with ischemic heart disease undergoing beta–adrenergic receptor stimulation and blockade] Piatak OA, et al. **Vrach Delo** 1990 Feb;(2):19–22 (Eng. Abstr.) **(Rus)**
[Microcirculatory disorders in patients with long–term nonhealing stomach ulcers] Preobrazhenskiĭ VN, et al. **Vrach Delo** 1989 Oct;(10):39–41 (Eng. Abstr.) **(Rus)**
[Characteristics of blood microcirculatory disorders during the formation of chronic cor pulmonale (a review of the literature)] Sakharchuk II, et al. **Vrach Delo** 1990 Jan; (1):53–9 (88 ref.) **(Rus)**
[The microcirculatory bed and the blood rheological properties in the acute period of severe craniocerebral trauma] Valeev EK, et al. **Zh Vopr Neirokhir** 1989 May–Jun;(3):24–8 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Conjunctival brush cytology. Tsubota K, et al. **Acta Cytol** 1990 Mar–Apr;34(2):233–5
Eosinophils and mast cell homogeneity of the guinea pig eyelid skin, conjunctiva, and ileum. Stock EL, et al. **Am J Anat** 1989 Dec;186(4):359–68
Optimal surface for impression cytology [letter] Refaat RF, et al. **Br J Ophthalmol** 1990 Apr;74(4):254
Platelet–activating factor causes goblet cell depletion in the conjunctiva. Woodward DF, et al. **Eur J Pharmacol** 1989 Sep 1;168(1):23–30
Differential staining of ocular goblet cells. Adams GG, et al. **Eye** 1989;3 (Pt 6):840–4
Pharmacological modulation of human subconjunctival fibroblast behavior in vitro. Damji KF, et al. **Ophthalmic Surg** 1990 Jan;21(1):31–43
Cyclic changes in conjunctival smears from menstruating females. Kramer P, et al. **Ophthalmology** 1990 Mar; 97(3):303–7
[Determination of the conjunctival goblet cell density in 43 normal subjects] Qi LP. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):161–2 (Eng. Abstr.) **(Chi)**
[Experimental and clinical study of conjunctivo–scleral tolerance of PTFE (Goretex) sutures compared to polyglactine (Vicryl). Adenis JP, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):231–2 (Eng. Abstr.) **(Fre)**
[Morphological and histochemical studies on the development of human conjunctival goblet cells] Miyashita K, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jan;94(1):49–53 (Eng. Abstr.) **(Jpn)**
[Brush cytology for the evaluation of dry–eye] Tsubota K, et al. **Nippon Ganka Gakkai Zasshi** 1990 Feb;94(2):224–30 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Time course of human conjunctival mast cell degranulation in response to compound 48/80. Udell IJ, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:154–61
The effects of apraclonidine on conjunctival oxygen tension. Serdahl CL, et al. **Arch Ophthalmol** 1989 Dec; 107(12):1777–9
Subconjunctival injections of antibiotics are used increasingly at the conclusion of intraocular and extraocular procedures. Morris RJ, et al. **Eye** 1989;3 (Pt 6):860–1
Otrivine–antistin–pupil, corneal and conjunctival responses to topical administration. Trew DR, et al. **Eye** 1989;3 (Pt 3):294–7
The ophthalmic rod: a new ophthalmic drug delivery system I. Alani SD. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(4):297–301
Effect of postoperative subconjunctival 5–fluorouracil injections on the surgical outcome of trabeculectomy in the Japanese. Nakano Y, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(6):569–74
The effect of platelet–activating factor (PAF), histamine, and ethanol on vascular permeability of the guinea pig conjunctiva. Stock EL, et al. **Invest Ophthalmol Vis Sci** 1990 May;31(5):987–92
Intraocular penetration of cytosine arabinoside following subconjunctival administration in primates. Graham ML, et al. **J Ocul Pharmacol** 1989 Fall;5(3):255–9
Conjunctival goblet cell response to vasoconstrictor use. Shellans S, et al. **J Ocul Pharmacol** 1989 Fall;5(3):217–20
Response of rat conjunctival mast cells to multiple versus single applications of compound 48/80. Allansmith MR, et al. **Ophthalmic Res** 1989;21(5):392–400
Determination of the interval during which one application of compound 48/80 to the rat conjunctiva influences the response to a second application. Allansmith MR, et al. **Ophthalmic Res** 1990;22(3):137–43
Characteristics of the cellular response of the rat conjunctiva to topically applied leukotriene B4. Trocmé SD, et al. **Ophthalmic Res** 1989;21(4):297–302
[Experimental study on doxorubicin as an adjunct to glaucoma surgery] Ren JM. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):351–4 (Eng. Abstr.) **(Chi)**
[Evaluation of the histopathologic effects following subconjunctival injection of corticoids in immediate– and retard–action forms] Noye JF, et al. **J Fr Ophtalmol** 1989; 12(8–9):587–94 (Eng. Abstr.) **(Fre)**
[Intra– and postoperative effect of different hydroxyethyl starch solutions on the flow properties of the blood and on the oxygen partial pressure of the conjunctiva] Tormann T, et al. **Anasethesist** 1990 Mar;39(3):166–72 (Eng. Abstr.) **(Ger)**
[The effect of molsidomine on the conjunctival microcirculation in patients with ischemic heart disease] Brovko EA, et al. **Vrach Delo** 1989 Nov;(11):49–51 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Cyclooxygenase and lipoxygenase pathways in anterior uvea and conjunctiva. Kulkarni PS, et al. **Prog Clin Biol Res** 1989;312:39–52 (44 ref.)

IMMUNOLOGY

Conjunctival allergen challenge. A clinical approach to studying allergic conjunctivitis. Abelson MB, et al. **Arch Ophthalmol** 1990 Jan;108(1):84–8
Conjunctival allergenicity–supporting factor (CASF) in DIIIa as the sea squirt antigen capable of inducing asthmatic attack and conjunctival reaction in sea squirt asthma. Shigeta S, et al. **Arerugi** 1990 Jan;39(1):28–35
Immunohistologic features predict clinical behavior of orbital and conjunctival lymphoid infiltrates. Medeiros LJ, et al. **Blood** 1989 Nov 1;74(6):2121–9
The lupus band test in oral mucosa, conjunctiva and skin. Burge SM, et al. **Br J Dermatol** 1989 Dec;121(6):743–52
Immediate hypersensitivity reactions in the guinea–pig conjunctiva: studies with a second–generation leukotriene D4 receptor antagonist, MK–571. Chan CC, et al. **Can J Physiol Pharmacol** 1989 Aug;67(8):845–50
Immunopathology of ocular onchocerciasis. I. Inflammatory cells infiltrating the anterior segment. Chan CC, et al.

Clin Exp Immunol 1989 Sep;77(3):367–72

Modulation of HLA antigen expression on conjunctival fibroblasts by gamma-interferon. Harrison SA, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):163–7

Penetrating the conjunctival barrier. The role of molecular weight. Kahn M, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):258–61

Changes in conjunctival scrapings after provocation [letter; comment] Feinberg G. **J Allergy Clin Immunol** 1990 Jan; 85(1 Pt 1):141–2 Comment on: J Allergy Clin Immunol 1988 Sep;82(3 Pt 1):462–9.

Experimental allergic conjunctivitis: production of different isotypes of antibody by conjunctival-associated lymphoid tissue in culture. Haldar JP, et al. **Reg Immunol** 1988 Sep-Oct;1(2):92–9

INJURIES

Traumatic transconjunctival orbital emphysema. Stroh EM, et al. **Br J Ophthalmol** 1990 Jun;74(6):380–1

METABOLISM

Estrogen and progesterone receptors and human conjunctiva. Gans LA, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):474–7

Tear volume in relation to contact lens wear and age. Hamano T, et al. **CLAO J** 1990 Jan-Mar;16(1):57–61

Liposome-encapsulated 3H-5FU in rabbits. Fishman P, et al. **Int Ophthalmol** 1989 Sep;13(5):361–5

Insulin absorption from conjunctiva studied in normal and diabetic dogs. Nomura M, et al. **J Pharm Pharmacol** 1990 Apr;42(4):292–4

The use of a liposome-encapsulated 5-fluoroorotate for glaucoma surgery: I. Animal studies. Alvarado JA. **Trans Am Ophthalmol Soc** 1990;87:489–514

[Conjunctival oxygen partial pressure, hemorheology and circulatory parameters in acute cerebral infarct before and following infusion of 6 percent low molecular hydroxyethyl starch] Kortsik CS, et al. **Infusionstherapie** 1990 Apr;17(2):79–82 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Bacterial contamination of intraocular and extraocular fluids during extracapsular cataract extraction. Sherwood DR, et al. **Eye** 1989;3 (Pt 3):308–12

Different species of corynebacteria in human investigations in Cairo. Sixl W, et al. **Geogr Med Suppl** 1989;5:117–34 (82 ref.)

Conjunctival microbial flora in leprosy. Garg SP, et al. **Indian J Lepr** 1990 Jan-Mar;62(1):39–44

A study of microbial flora of conjunctival sac in newborns. Lee PW, et al. **Korean J Ophthalmol** 1989 Jun;3(1):38–41

[Preoperative disinfection of the conjunctiva with PVP-iodine] Maeck CR, et al. **Fortschr Ophthalmol** 1990; 87(3):320–3 (Eng. Abstr.) **(Ger)**

[Detection of mycoplasmas in eye swab specimens of cattle] Schöttker-Wegner HH, et al. **Zentralbl Veterinarmed [B]** 1990 Aug;37(6):436–41 (Eng. Abstr.) **(Ger)**

[Monoclonal antibodies in the diagnosis of paratrachoma] Budagovskaia SN, et al. **Vestn Oftalmol** 1990 Mar-Apr; 106(2):56–8 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Ophthalmic dirofilariasis. D'Heurle D, et al. **Ann Ophthalmol** 1990 Jul;22(7):273–5

PATHOLOGY

Immunohistochemical localization of collagen types I, II, III, and IV in pterygium tissues. Dake Y, et al. **Acta Histochem (Jena)** 1989;87(1):71–4

Clinicopathological correlation of hard contact lens related changes in tarsal conjunctiva by impression cytology. Saini JS, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):65–70

Conjunctival involvement in familial amyloidotic polyneuropathy. Sandgren O, et al. **Acta Ophthalmol (Copenh)** 1990 Jun;68(3):292–6

Conjunctival impression cytology for assessment of vitamin A status. Reddy V, et al. **Am J Clin Nutr** 1989 Oct; 50(4):814–7

Is conjunctival biopsy useful for diagnosis of neuroaxonal dystrophy? [letter] Crisci C, et al. **Ann Neurol** 1989 Nov; 26(5):691

A new method of obtaining cells from the cornea and conjunctiva for cytologic study [letter] Mader TH, et al. **Arch Ophthalmol** 1990 May;108(5):639

Staining of the conjunctiva and conjunctival tear film. Eliason JA, et al. **Br J Ophthalmol** 1990 Sep;74(9):519–22

Conjunctival biopsy in the diagnosis of sarcoidosis. Spaide RF, et al. **Br J Ophthalmol** 1990 Aug;74(8):469–71

Corneal and conjunctival changes in congenital erythropoietic porphyria. Ueda S, et al. **Cornea** 1989 Dec; 8(4):286–94

The eye in dystrophic epidermolysis bullosa: clinical and immunopathological findings. McDonnell PJ, et al. **Eye** 1989;3 (Pt 1):79–83

Human conjunctival mast cells: distribution of MCT and MCTC in vernal conjunctivitis and giant papillary conjunctivitis. Irani AM, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):34–40

Early detection of vitamin A deficiency in children with persistent diarrhoea [letter] Usha N, et al. **Lancet** 1990 Feb 17;335(8686):422

Conjunctival cytologic features of primary Sjögren's syndrome. Pflugfelder SC, et al. **Ophthalmology** 1990 Aug; 97(8):985–91

PHYSIOLOGY

[Conjunctival oxygen tension. Testing oxygen tension measurement of the conjunctiva] Gellett SC, et al. **Ugeskr Laeger** 1990 Jul 9;152(28):2050–2 (Eng. Abstr.) **(Dan)**

PHYSIOPATHOLOGY

[Changes in canine conjunctival and cerebral oxygen tension during hemorrhagic hypotension] Kikuta Y. **Masui** 1989 Nov;38(11):1421–6 (Eng. Abstr.) **(Jpn)**

SURGERY

Complications of malpositioned Jones tubes. Bartley GB, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):66–9

Limbal-based vs fornix-based conjunctival flaps in combined extracapsular cataract surgery and glaucoma filtering procedure. Murchison JF Jr, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):709–15

A 16-year study of conjunctival dacryocystorhinostomy. Steinsapir KD, et al. **Am J Ophthalmol** 1990 Apr 15; 109(4):387–93

Is there still a place for conjunctival-approach ptosis surgery? Collin R, et al. **Int Ophthalmol Clin** 1989 Winter; 29(4):219–25

Repair of anomalous nasolacrimal duct in a bull by use of conjunctivorhinostomy. Wilkie DA, et al. **J Am Vet Med Assoc** 1990 May 15;196(10):1647–50

Cutaneous approaches to the orbital skeleton and periorbital structures. Eppley BL, et al. **J Oral Maxillofac Surg** 1990 Aug;48(8):842–54 (45 ref.)

Flap reconstruction techniques in conjunctivorhinostomy. Arden RL, et al. **Otolaryngol Head Neck Surg** 1990 Feb; 102(2):150–5

[Surgical treatment of postburn cicatricial inversions of the lower eyelids with involvement of the lid edge and conjunctival ectopia] Grishkevich VM, et al. **Vestn Oftalmol** 1989 Jul-Aug;105(4):33–8 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

Conjunctival flap-cosmetic shell-ptosis procedure. Treatment of blepharoptosis in severe keratopathy. Putterman AM. **Arch Ophthalmol** 1989 Dec;107(12):1816–8

Chlamydial infection of subcutaneous conjunctival transplants in guinea pigs. Pham RT, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1367–73

A randomized trial of conjunctival autografting for pterygium in the tropics [see comments] Lewallen S. **Ophthalmology** 1989 Nov;96(11):1612–4 Comment in: Ophthalmology 1990 May;97(5):542–3.

Pterygium in the tropics [letter; comment] Singh G. **Ophthalmology** 1990 May;97(5):542–3 Comment on: Ophthalmology 1989 Nov;96(11):1612–4.

Comparison of limbal and conjunctival autograft transplantation in corneal surface reconstruction in rabbits. Tsai RJ, et al. **Ophthalmology** 1990 Apr;97(4):446–55

[Preliminary results of the pterygium excision technic with conjunctival autograft] Simona F, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):295–7 (Eng. Abstr.) **(Fre)**

[The effect of the method for forming the conjunctival flap in glaucoma fistulizing operations on the development of a stable acquired ptosis of the upper eyelid] Nesterov AP, et al. **Vestn Oftalmol** 1989 Sep-Oct;105(5):49–52 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Mucus alteration and eye dryness. A possible relationship. Versura P, et al. **Acta Ophthalmol (Copenh)** 1989 Aug; 67(4):455–64

Conjunctival pterygia. Mechanism of corneal topographic changes. Oldenburg JB, et al. **Cornea** 1990 Jul;9(3):200–4

Ultrastructure of M cells in the conjunctival epithelium of the guinea pig. Latkovic S. **Curr Eye Res** 1989 Aug; 8(8):751–5

Ultrastructure of the conjunctival epithelium. Steuhl KP. **Dev Ophthalmol** 1989;19:1–104 (210 ref.)

[Electron microscopic study of the iris and bulbar conjunctiva of Werner's syndrome] Shiotani N, et al. **Nippon Ganka Gakkai Zasshi** 1989 Oct;93(10):986–92 (Eng. Abstr.) **(Jpn)**

[Karyometric characteristics of the accessory apparatus of the eye in embryonal histogenesis] Brusilovskii AI, et al. **Arkh Anat Gistol Embriol** 1989 Jul;97(7):32–9 (Eng. Abstr.) **(Rus)**

CONJUNCTIVAL DISEASES

COMPLICATIONS

Hemorheologic abnormalities in patients with human immunodeficiency virus infection and ophthalmic microvasculopathy. Engstrom RE Jr, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):153–61

Tuberculosis of the conjunctiva occurring in association with a neighbouring lupus vulgaris lesion. Cook CD, et al. **Br J Ophthalmol** 1990 May;74(5):315–6

Conjunctival chemosis in eosinophilic fasciitis [letter] Leatherbarrow B, et al. **Eye** 1989;3 (Pt 4):484–5

[Retinal detachment and sarcoidosis] Straub W, et al. **Bull Soc Ophtalmol Fr** 1989 Aug-Sep;89(8–9):1013–5 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Invasive conjunctival tumor with keratoacanthoma features. Grossniklaus HE, et al. **Am J Ophthalmol** 1990 Jun 15; 109(6):736–8

Amyloidosis of the conjunctiva. Jain NS, et al. **Br J Ophthalmol** 1966 Feb;50(2):102–4

Postsurgical hematic cyst simulating a conjunctival melanoma. Lieb WE, et al. **Retina** 1990;10(1):63–7

DRUG THERAPY

Medical postoperative management of massive conjunctival prolapse: a case report. Serrano FG, et al. **Ophthalmic Surg** 1990 Mar;21(3):209–10

ENZYMOLOGY

Plasminogen activator activity and plasminogen independent amidolytic activity in tear fluid from healthy persons and patients with anterior segment inflammation. Tözsér J, et al. **Clin Chim Acta** 1989 Aug 31;183(3):323–31

ETIOLOGY

Clinicopathological correlation of hard contact lens related changes in tarsal conjunctiva by impression cytology. Saini JS, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):65–70

Contact lens complications. Turturro MA, et al. **Am J Emerg Med** 1990 May;8(3):228–33 (22 ref.)

Episcleritis and symblepharon associated with Lyme keratitis. Zaidman GW. **Am J Ophthalmol** 1990 Apr 15;109(4):487–8

Infections with the therapeutic soft lens. Brown SI, et al. **Arch Ophthalmol** 1974 Apr;91(4):275–7

Bungy jumping [letter] Hanbury PH. **Aust N Z J Ophthalmol** 1990 May;18(2):229

External ocular pigmentation secondary to perforating eye injury. Benson MT, et al. **Br J Ophthalmol** 1990 Apr; 74(4):251–3

Nyctalopia and conjunctival xerosis indicating vitamin A deficiency in cystic fibrosis. Neugebauer MA, et al. **Eye** 1989;3 (Pt 3):360–4

Tuberculoma of the conjunctiva. Singh I, et al. **J Indian Med Assoc** 1989 Nov;87(11):265–6

Causes of subconjunctival hemorrhage. Fukuyama J, et al. **Ophthalmologica** 1990;200(2):63–7

IMMUNOLOGY

Immunopathology of ocular sarcoidosis. Angi MR, et al. **Int Ophthalmol** 1990 Jan;14(1):1–11

Clinical patterns of ocular anaphylaxis in guinea pigs passively sensitized with IgG1 antibody. Leonardi A, et al. **Ophthalmic Res** 1990;22(2):95–105

PARASITOLOGY

Nodules in the conjunctiva, bung-eye, and bulge-eye in Africa caused by Mansonella perstans. Baird JK, et al. **Am J Trop Med Hyg** 1988 May;38(3):553–7

PATHOLOGY

Conjunctival lesion in a patient with a history of glaucoma. Filtering conjunctival blebs. Stough DB, et al. **Arch Dermatol** 1990 Sep;126(9):1225–6, 1228–9

Conjunctival concretions. Polarized microscopic, histopathologic, and ultrastructural studies. Chang SW, et al. **Arch Ophthalmol** 1990 Mar;108(3):405–7

Pterygium and pinguecula: electron microscopic study. Hogan MJ, et al. **Arch Ophthalmol** 1967 Aug;78(2):174–86

Immunohistologic features predict clinical behavior of orbital and conjunctival lymphoid infiltrates. Medeiros LJ, et al. **Blood** 1989 Nov 1;74(6):2121–9

Conjunctival biopsy in the diagnosis of sarcoidosis. Spaide RF, et al. **Br J Ophthalmol** 1990 Aug;74(8):469–71

Cyst of ectopic (choristomatous) lacrimal gland. Rao VA, et al. **Indian J Ophthalmol** 1989 Oct-Dec;37(4):189–90

Conjunctival surface damage distribution in keratoconjunctivitis sicca. An impression cytology study. Rolando M, et al. **Ophthalmologica** 1990;200(4):170–6

Traumatic chemosis. **Practitioner** 1989 Feb 8;233(1462):179

[Rhinosporidiosis: presentation of 4 cases] González Núñez MA, et al. **Med Clin (Barc)** 1990 May 12;94(18):689–92 (Eng. Abstr.) **(Spa)**

SURGERY

Surgical treatment of chemotic conjunctival prolapse following vitreoretinal surgery. Malone TJ, et al. **Arch Ophthalmol** 1990 Jun;108(6):890–1

Conjunctivochalasis: a surgical technique. Serrano F, et al. **Ophthalmic Surg** 1989 Dec;20(12):883–4

Autologous nasal mucosa transplantation in severe bilateral conjunctival mucus deficiency syndrome. Naumann GO, et al. **Ophthalmology** 1990 Aug;97(8):1011–7

CONJUNCTIVAL NEOPLASMS

Malignant melanomas of the conjunctiva, nasal cavity, and paranasal sinuses. Robertson DM, et al. **Am J Ophthalmol** 1989 Oct 15;108(4):440–2

Malignant melanomas of eyelid skin [letter; comment] Rodriguez-Sains RS. **Plast Reconstr Surg** 1990 Jun; 85(6):1000–1 Comment on: Plast Reconstr Surg 1989 Jun;83(6):994–6.

[Malignant melanoma of the conjunctiva] Vlková E, et al. **Cesk Oftalmol** 1990 Jul;46(4):285–92 (Eng. Abstr.) (Cze)

COMPLICATIONS

Necrotizing scleritis secondary to conjunctival squamous cell carcinoma in acquired immunodeficiency syndrome. Kim RY, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):231–3

Recurrent conjunctival papilloma causing nasolacrimal duct obstruction. Migliori ME, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):17–22 (8 ref.)

Squamous cell carcinoma of the conjunctiva associated with benign mucous membrane pemphigoid. Sivalingam V, et al. **Ann Ophthalmol** 1990 Mar;22(3):106–9

Spontaneous regression of a conjunctival intraepithelial neoplastic tumor. Morsman CD. **Arch Ophthalmol** 1989 Oct;107(10):1490–1

HIV and conjunctival malignancies [letter] Kestelyn P, et al. **Lancet** 1990 Jul 7;336(8706):51–2

[The association of primary acquired conjunctival melanosis, malignant melanoma and Parinaud's dermoepithelioma] Rossazza C, et al. **Bull Soc Ophtalmol Fr** 1989 Aug–Sep; 89(8–9):985–7 (Eng. Abstr.) (Fre)

CONGENITAL

Epibulbar complex choristoma involving the bulbar conjunctiva and cornea. Hayasaka S, et al. **J Pediatr Ophthalmol Strabismus** 1989 Sep–Oct;26(5):251–3

DIAGNOSIS

Invasive conjunctival tumor with keratoacanthoma features. Grossniklaus HE, et al. **Am J Ophthalmol** 1990 Jun 15; 109(6):736–8

Solitary conjunctival extramedullary plasmacytoma. Kremer I, et al. **Ann Ophthalmol** 1990 Apr;22(4):126–30

Spindle cell carcinoma of cornea and conjunctiva with pseudosarcomatous metaplasia. Light microscopic, electron microscopic and immunohistochemical findings in 2 patients. Ni C, et al. **Chin Med J [Engl]** 1989 May; 102(5):387–91

Diagnosis and management of conjunctival papillomas [published erratum appears in J Am Optom Assoc 1990 Aug;61(8):597–8] Bailey RN, et al. **J Am Optom Assoc** 1990 May;61(5):405–12

Postsurgical hematic cyst simulating a conjunctival melanoma. Lieb WE, et al. **Retina** 1990;10(1):63–7

[Melanoma of the conjunctiva and its treatment] Zografos L, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):285–9 (Eng. Abstr.) (Fre)

[Melanocytic tumors of the conjunctiva—a diagnostic and therapeutic problem] Kremer I, et al. **Harefuah** 1990 Apr 15;118(8):475–9 (24 ref.) (Heb)

EPIDEMIOLOGY

Factors associated with conjunctival intraepithelial neoplasia: a case control study. Napora C, et al. **Ophthalmic Surg** 1990 Jan;21(1):27–30

ETIOLOGY

[Diagnostic and therapeutic problems posed by a conjunctival site of Kaposi's disease in AIDS] Mandérieux N, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1121–2 (Fre)

GENETICS

Detection of human papillomavirus type 11 DNA in a conjunctival squamous cell papilloma by in situ hybridization with biotinylated probes. Mäntyjärvi M, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):425–9

IMMUNOLOGY

HMB-45 antibody reactivity in pigmented lesions of the conjunctiva. Glasgow BJ, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):696–700

MICROBIOLOGY

Particles resembling retrovirus and conjunctival Kaposi's sarcoma. Dugel PU, et al. **Am J Ophthalmol** 1990 Jul 15; 110(1):86–7

Human papillomavirus type 18 in conjunctival intraepithelial neoplasia. Lauer SA, et al. **Am J Ophthalmol** 1990 Jul 15; 110(1):23–7

PATHOLOGY

Intraepithelial neoplasia of the conjunctiva with mucoepidermoid differentiation. Margo CE, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):600–1

Pigmentation of the eyelid margin accompanying conjunctival melanoma. Robertson DM, et al. **Am J Ophthalmol** 1989 Oct 15;108(4):435–9

Lymphocytic lymphoma of intermediate differentiation. Morphologic and immunophenotypic spectrum and clinical correlations. Lardelli P, et al. **Am J Surg Pathol** 1990 Aug; 14(8):752–63

Lymphangioma circumscriptum of the eyelids and conjunctiva. Goble RR, et al. **Br J Ophthalmol** 1990 Sep; 74(9):574–5

Amelanotic malignant melanoma of the conjunctiva with local metastasis to the eyelid. Jordan DR, et al. **Can J Ophthalmol** 1990 Feb;25(1):34–7

Clinical course and pathologic features of conjunctival non-Hodgkin's lymphoma. A report of six cases. Khalil HA, et al. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(3):246–51

Cavernous haemangioma of conjunctiva (a case report). Rao MR, et al. **Indian J Ophthalmol** 1989 Jan–Mar;37(1):37–8

Deeply invasive squamous cell carcinoma of the conjunctiva: case report. De Felice GP, et al. **Int Ophthalmol** 1990 Jul; 14(4):241–4

An overview of ocular adnexal lymphoid tumors. Jakobiec FA, et al. **Trans Am Ophthalmol Soc** 1990;87:420–42; discussion 442–4

[Squamous cell carcinoma of the conjunctiva] Yuan NF. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):343–5 (Eng. Abstr.) (Chi)

[Malignant melanoma of the conjunctiva: histopathologic study] Uffer S. **Klin Monatsbl Augenheilkd** 1990 May; 196(5):290–4 (Eng. Abstr.) (Fre)

[Acquired ocular melanosis] Heine J. **Klin Monatsbl Augenheilkd** 1989 Dec;195(6):379–81 (Eng. Abstr.) (Ger)

[Virus-induced papilloma of the conjunctiva. Detection of HPV 6a DNA] Fierlbeck G, et al. **Z Hautkr** 1990 May; 65(5):497–9 (Eng. Abstr.) (Ger)

RADIOTHERAPY

Conjunctival lymphoma: results and treatment with a single anterior electron field. A lens sparing approach. Dunbar SF, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug; 19(2):249–57

Conjunctival intraepithelial and invasive squamous cell carcinomas treated with strontium-90. Cerezo L, et al. **Radiother Oncol** 1990 Mar;17(3):191–7

[Radiotherapy in the treatment of melanoma of the conjunctiva] Oguz Y, et al. **Bull Soc Ophtalmol Fr** 1989 Aug–Sep;89(8–9):949–52 (Fre)

[Optimization of methodology and extension of indications for beta therapy of neoplasms of the eyelids, conjunctiva and cornea] Fokin VP, et al. **Oftalmol Zh** 1989;(4):209–13 (Eng. Abstr.) (Rus)

SURGERY

Clinical features and surgical management of dermolipomas. McNab AA, et al. **Aust N Z J Ophthalmol** 1990 May; 18(2):159–62

Lamellar sclerokeratoplasty of epibulbar tumor in xeroderma pigmentosum. Arora R, et al. **J Pediatr Ophthalmol Strabismus** 1990 Mar–Apr;27(2):80–3

[Complications of dermolipoma ablation] François P, et al. **Bull Soc Ophtalmol Fr** 1989 Feb;89(2):289–90 (Eng. Abstr.) (Fre)

[CO2 laser vaporization of papilloma of the conjunctiva and eyelids] Jean B, et al. **Fortschr Ophthalmol** 1989;86(6):672–5 (Eng. Abstr.) (Ger)

[Lymphogenic dissemination of an epibulbar melanoma] Arocker-Mettinger E, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):89–91 (Eng. Abstr.) (Ger)

ULTRASTRUCTURE

Spindle cell carcinoma of the conjunctiva. An immunohistochemical and ultrastructural study of six cases. Huntington AC, et al. **Ophthalmology** 1990 Jun;97(6):711–7

CONJUNCTIVITIS

A systematic approach to the diagnosis and treatment of chronic conjunctivitis. Rapoza PA, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):138–42

Chlamydial infection of subcutaneous conjunctival transplants in guinea pigs. Pham RT, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1367–73

Common ocular problems in children: conjunctivitis and tear duct obstructions. King RA. **Pediatrician** 1990;17(3):142–51 (23 ref.)

[Inflammations of the conjunctiva] Boguszaková J. **Zdrav Aktual** 1983;204:197–9 (Cze)

CHEMICALLY INDUCED

[Corneal toxicity of cytarabine. Apropos of a case] Bursztyn J, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):229–30 (Eng. Abstr.) (Fre)

COMPLICATIONS

Ligneous conjunctivitis: an ophthalmic disease with potentially fatal tracheobronchial obstruction. Laryngeal and tracheobronchial features. Cohen SR. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):509–12 (14 ref.)

Ligneous conjunctivitis with ear involvement. Marcus DM, et al. **Arch Ophthalmol** 1990 Apr;108(4):514–9

[The exfoliation syndrome in Tunisia] Ayed S, et al. **Tunis Med** 1990 Jan;68(1):19–22 (Eng. Abstr.) (Fre)

DIAGNOSIS

A systemic approach to the diagnosis of chronic conjunctivitis [letter] Francis IC. **Am J Ophthalmol** 1990 Aug 15;110(2):213–4

[Mucosynechial conjunctivitis and bilateral corneal ulcers in Lyell's syndrome] Talea L. **Rev Chir [Oftalmol]** 1989 Oct–Dec;33(4):299–303 (Eng. Abstr.) (Rum)

[Monoclonal antibodies in the diagnosis of paratrachoma] Budagovskaia SN, et al. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):56–8 (Eng. Abstr.) (Rus)

DRUG THERAPY

Ligneous conjunctivitis involving the cervix. Case report [letter; comment] Buck DC, et al. **Br J Obstet Gynaecol** 1990 Feb;97(2):193 Comment on: Br J Obstet Gynaecol 1989 Oct;96(10):1228–30.

[Nystatin in the treatment of candidal conjunctivitis] Haicl P. **Cesk Oftalmol** 1990 Feb;46(1):42–6 (Eng. Abstr.) (Cze)

[Randomized study of cefatrizine versus cefaclor in conjunctivitis otitis syndrome] Cohen R, et al. **Pathol Biol (Paris)** 1990 Jun;38(5 (Pt 2)):517–20 (Eng. Abstr.) (Fre)

ENZYMOLOGY

Blood histaminase in phlyctenulosis. Verma NP, et al. **Indian J Ophthalmol** 1989 Jul–Sep;37(3):155–6

EPIDEMIOLOGY

Ocular infections and the industrial use of microscopes. Paul M, et al. **J Occup Med** 1989 Sep;31(9):763–6

ETIOLOGY

Microbiological studies in conjunctivitis. Boralkar AN, et al. **Indian J Ophthalmol** 1989 Apr–Jun;37(2):94–5

Diphtheritic conjunctivitis. A rare case report in Indian literature [letter] Boralkar AN. **Indian J Ophthalmol** 1989 Jan–Mar;37(1):49–50

Investigation of an outbreak of conjunctivitis in Pune during 1986. Gogate SS, et al. **J Commun Dis** 1988 Dec;20(4):360–1

Lacrimal gland ductule stones. Baker RH, et al. **Ophthalmology** 1990 Apr;97(4):531–4

Episcleritis, conjunctivitis, and keratitis as ocular manifestations of Lyme disease. Flach AJ, et al. **Ophthalmology** 1990 Aug;97(8):973–5

[Floppy eyelid syndrome. 5 cases] Da Prá A, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):314 (Eng. Abstr.) (Fre)

[Chronic conjunctivitis] Marquardt R. **Fortschr Med** 1990 May 30;108(16):319–22 (0 ref.) (Eng. Abstr.) (Ger)

IMMUNOLOGY

Antibasement membrane antibody-mediated experimental conjunctivitis. Roat MI, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):168–75

Reply to the letter of Dr. Feinberg in J Allergy Clin Immunol 1990; 85:141–2 [letter] Bonini S, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):139–40

[The practice of electrophoresis of lacrimal proteins in routine ophthalmology] Lalangue JC, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):211–3 (Eng. Abstr.) (Fre)

PATHOLOGY

Ligneous conjunctivitis involving the cervix. Case report [see comments] Rubin A, et al. **Br J Obstet Gynaecol** 1989 Oct; 96(10):1228–30 Comment in: Br J Obstet Gynaecol 1990 Feb;97(2):193.

Ligneous conjunctivitis. **Lancet** 1990 Jan 13;335(8681):84 (13 ref.)

THERAPY

Double-blind, placebo-controlled immunotherapy with mixed grass-pollen allergoids. III. Efficacy and safety of unfractionated and high-molecular-weight preparations in rhinoconjunctivitis and asthma. Bousquet J, et al. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 1):546–56

VETERINARY

Haematological and biochemical investigations of diseased koalas (Phascolarctos cinereus). Canfield PJ, et al. **Aust Vet J** 1989 Sep;66(9):269–72

CONJUNCTIVITIS, ACUTE HEMORRHAGIC

DIAGNOSIS

[Study on rapid diagnosis of acute hemorrhagic conjunctivitis caused by Coxsackievirus A24 variant] Mu GF. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Jun; 11(3):154–5 (Eng. Abstr.) (Chi)

EPIDEMIOLOGY

An epidemic of acute hemorrhagic conjunctivitis in American Samoa caused by coxsackievirus A24 variant.

Sawyer LA, et al. **Am J Epidemiol** 1989 Dec;130(6):1187–98

An outbreak of acute haemorrhagic conjunctivitis in Kaduna, Nigeria. Babalola OE, et al. **Br J Ophthalmol** 1990 Feb; 74(2):89–92

Study of an outbreak of epidemic conjunctivitis in Delhi in 1986. Kishore J, et al. **Indian J Pathol Microbiol** 1989 Oct; 32(4):266–9

Acute haemorrhagic conjunctivitis: seroepidemiology of coxsackievirus A24 variant and enterovirus 70 in Singapore. Goh KT, et al. **J Med Virol** 1990 Jul;31(3):245–7

[Acute hemorrhagic conjunctivitis caused by a variant of coxsackievirus A24, in Belém, Pará, Brazil, 1987] Santos E de O, et al. **Rev Inst Med Trop Sao Paulo** 1989 May–Jun; 31(3):183–7 (Eng. Abstr.) **(Por)**

MICROBIOLOGY

Coxsackie virus A 24 variant as the etiological agent of the acute haemorrhagic conjunctivitis epidemic at Vellore, in 1986. Ponnuraj EM, et al. **Indian J Med Res** 1989 Sep; 89:283–6

Isolation of enterovirus 70 (EV70) from patients with acute haemorrhagic conjunctivitis in two areas of Saudi Arabia. Ramia S, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb; 84(1):139–40

CONJUNCTIVITIS, ALLERGIC

Urticaria and allergic conjunctivitis. Mathews KP. **Curr Opin Immunol** 1989–90 Apr;2(4):535–41 (27 ref.)

Vernal ulcer. Srinivasan M, et al. **Indian J Ophthalmol** 1990 Jan–Mar;38(1):33–4

Giant papillary conjunctivitis. Allansmith MR. **J Am Optom Assoc** 1990 Jun;61(6 Suppl):S42–6 (13 ref.)

Limbal vernal keratoconjunctivitis in the tropics. Resnikoff S, et al. **Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique** 1988;65(3–4):21–72 (56 ref.) **(Eng, Fre)**

[Refitting with disposable lenses of patients with giant papillary conjunctivitis. First results] Coursaux G, et al. **Bull Soc Ophtalmol Fr** 1989 Dec;89(12):1371–2 (Eng. Abstr.) **(Fre)**

[Allergic conjunctivitis. Treatment and course] Machado Pinto C, et al. **Rev Alerg Mex** 1990 Jan–Feb;37(1):23–6 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Corneal ectasia in vernal keratoconjunctivitis. Cameron JA, et al. **Ophthalmology** 1989 Nov;96(11):1615–23

Atopic keratoconjunctivitis. Foster CS, et al. **Ophthalmology** 1990 Aug;97(8):992–1000

DIAGNOSIS

Evaluation of the conjunctival provocation test in allergy diagnosis. García-Ortega P, et al. **Clin Exp Allergy** 1989 Sep;19(5):529–32

Assessment of changes in eye redness by a photographic method and the relation to sensory eye irritation. Kjaergaard SK, et al. **Int Arch Occup Environ Health** 1990; 62(2):133–7

Conjunctival provocation tests in suspected allergic conjunctivitis: a clinical study. Giovannini M, et al. **Ophthalmologica** 1990;201(1):1–4

DRUG THERAPY

Topical levocabastine versus sodium cromoglycate in allergic conjunctivitis. Odelram H, et al. **Allergy** 1989 Aug; 44(6):432–6

Topical levocabastine protects better than sodium cromoglycate and placebo in conjunctival provocation tests. Rimås M, et al. **Allergy** 1990 Jan;45(1):18–21

Levocabastine versus cromolyn sodium in the treatment of pollen-induced conjunctivitis. Ciprandi G, et al. **Ann Allergy** 1990 Aug;65(2):156–8

Double-blind group comparative study of 2% nedocromil sodium eye drops with placebo eye drops in the treatment of seasonal allergic conjunctivitis. Leino M, et al. **Ann Allergy** 1990 Apr;64(4):398–402

Efficacy of cetirizine in the treatment of seasonal allergic rhinoconjunctivitis. Panayotopoulos SM, et al. **Ann Allergy** 1990 Aug;65(2):146–8

Effects of Vasocon-A in the allergen challenge model of acute allergic conjunctivitis. Abelson MB, et al. **Arch Ophthalmol** 1990 Apr;108(4):520–4

An open multiple dose study of Optrex Eye Lotion in eye irritation due to hayfever. Clark MJ, et al. **Br J Clin Pract** 1989 Oct;43(10):357–9

Effect of cetirizine in a conjunctival provocation test with allergens. Schoeneich M, et al. **Clin Exp Allergy** 1990 Mar; 20(2):171–4

Pharmacologic modulation of vascular permeability in ocular allergy in the rat. Calonge MC, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):176–80

Comparison of the efficacy and side effects of aqueous steroid nasal spray (budesonide) and allergen-injection therapy (Pollinex-R) in the treatment of seasonal allergic rhinoconjunctivitis. Juniper EF, et al. **J Allergy Clin Immunol** 1990 Mar;85(3):606–11

Adjuvant therapy of aspirin and cromoglycate 2% eye drops in vernal conjunctivitis. Srinivas C. **Korean J Ophthalmol** 1989 Jun;3(1):42–6

[A new generation of antihistaminics (H1)] Tarchalska B, et al. **Pol Tyg Lek** 1988 Dec 19–26;43(51–52):1672–5 **(Pol)**

[Experience with the treatment of various allergic diseases using a new histamine and serotonin antagonist bicarphene] Goriachkina LA, et al. **Klin Med (Mosk)** 1990 May; 68(5):84–7 **(Rus)**

EPIDEMIOLOGY

Association of giant papillary conjunctivitis with seasonal allergies. Begley CG, et al. **Optom Vis Sci** 1990 Mar; 67(3):192–5

ETIOLOGY

Allergy to Artemisia vulgaris in the region of Warsaw. May KL. **Allergol Immunopathol (Madr)** 1990 Jan–Feb; 18(1):57–60

Allergic conjunctivitis to chamomile tea. Subiza J, et al. **Ann Allergy** 1990 Aug;65(2):127–32

Immunoglobulin deposition on soft contact lenses: relationship to hydrogel structure and mode of use and giant papillary conjunctivitis. Jones B, et al. **CLAO J** 1990 Jan–Mar;16(1):43–8

Inflammatory mediator release on conjunctival provocation of allergic subjects with allergen. Proud D, et al. **J Allergy Clin Immunol** 1990 May;85(5):896–905

Conjunctival provocative tests: a model of human ocular allergy. Friedlaender MH. **Trans Am Ophthalmol Soc** 1990; 87:577–97

[Comparative studies of the effects of fly ash, soil dust and clay on selected structures of the visual system of female albino rats] Toczolowski J, et al. **Klin Oczna** 1989 Apr; 91(4):82–4 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Conjunctival allergen challenge. A clinical approach to studying allergic conjunctivitis. Abelson MB, et al. **Arch Ophthalmol** 1990 Jan;108(1):84–8

Allergy and asthma: distinguishing the causes from the triggers. An eye model for the study of inflammatory events following allergen challenge. Bonini S, et al. **Eur Respir J Suppl** 1989 Jun;6:497s–501s

Limbal vernal keratoconjunctivitis: clinical characteristics and immunoglobulin E expression compared with palpebral vernal. Tuft SJ, et al. **Eye** 1989;3 (Pt 4):420–7

Experimental allergic conjunctivitis: production of different isotypes of antibody by conjunctival-associated lymphoid tissue in culture. Haldar JP, et al. **Reg Immunol** 1988 Sep–Oct;1(2):92–9

New immunological findings in vernal conjunctivitis. Vérin P, et al. **Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique** 1988;65(3–4):73–6, 79–82 **(Eng, Fre)**

[Cellular immunity in pollinosis patients] Batarchukov AV, et al. **Vrach Delo** 1990 May;(5):88–90 (Eng. Abstr.) **(Rus)**

METABOLISM

Eosinophil granule major basic protein in contact lenses of patients with giant papillary conjunctivitis. Trocme SD, et al. **CLAO J** 1990 Jul–Sep;16(3):219–22

HPLC analysis of tear proteins in giant papillary conjunctivitis. Suttorp-Schulten MS, et al. **Doc Ophthalmol** 1989 Aug;72(3–4):235–40

PATHOLOGY

Human conjunctival mast cells: distribution of MCT and MCTC in vernal conjunctivitis and giant papillary conjunctivitis. Irani AM, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):34–40

THERAPY

Immunotherapy with alginate-conjugated two grass pollen extract in patients with allergic rhinoconjunctivitis. Tari MG, et al. **Allergol Immunopathol (Madr)** 1990 Jan–Feb; 18(1):35–40

Oral immunotherapy with grass pollen in enterosoluble capsules. A prospective study of the clinical and immunological response. Urbanek R, et al. **Eur J Pediatr** 1990 May;149(8):545–50

CONJUNCTIVITIS, ATOPIC see **CONJUNCTIVITIS, ALLERGIC**

CONJUNCTIVITIS, BACTERIAL

COMPLICATIONS

Infective conjunctivitis and corneal scarring in three brothers with sex linked hypogammaglobulinaemia (Bruton's disease). Hansel TT, et al. **Br J Ophthalmol** 1990 Feb; 74(2):118–20

DIAGNOSIS

Comparison of Kodak Surecell Chlamydia Test Kit with culture for the diagnosis of chlamydial conjunctivitis in infants. Hammerschlag MR, et al. **J Clin Microbiol** 1990 Jun;28(6):1441–2

[Ocular findings in infection-linked immune phenomena and secondary diseases (the so-called Reiter's syndrome)] Bialasiewic AA, et al. **Klin Monatsbl Augenheilkd** 1990 Apr; 196(4):196–201 (Eng. Abstr.) **(Ger)**

[Chlamydia infection in obstetrics and gynecology] Liseeva ZA. **Akush Ginekol (Mosk)** 1989 Oct;(10):8–11 (51 ref.) **(Rus)**

DRUG THERAPY

Norfloxacin ophthalmic versus chloramphenicol in bacterial conjunctivitis and blepharoconjunctivitis [letter] Avisar R, et al. **DICP** 1990 Jun;24(6):640–1

Lack of efficacy of fusidic acid in the treatment of chlamydial conjunctivitis [letter] Stenberg K, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):57–8

Ocular infection investigations in Cairo's waste disposal sites. PVP-iodine treatment trials. Schabus V, et al. **Geogr Med Suppl** 1989;3:103–12

Trimethoprim–polymyxin B for bacterial conjunctivitis. **Med Lett Drugs Ther** 1990 Jul 27;32(823):71–2

Gonococcal conjunctivitis [letter] O'Farrell N, et al. **S Afr Med J** 1989 Nov 18;76(10):580

[A multicenter randomized study of fusidic acid ophthalmic gel and rifamycine eyedrops in acute conjunctivitis] Adenis JP, et al. **J Fr Ophtalmol** 1989;12(4):317–22 (Eng. Abstr.) **(Fre)**

[Conjunctivitis of bacterial origin in children. Local antibiotic treatment with tobramycin collyrium] Fioretti GM, et al. **Pediatr Med Chir** 1989 Jul–Aug;11(4):421–3 (Eng. Abstr.) **(Ita)**

EPIDEMIOLOGY

Conjunctivitis associated with methicillin-resistant Staphylococcus aureus in a long-term-care facility. Brennen C, et al. **Am J Med** 1990 May;88(5N):14N–17N

Incidence and etiology of conjunctivitis in Navy recruits. Heggie AD. **Milit Med** 1990 Jan;155(1):1–3

Epidemiology and diagnosis of acute conjunctivitis at an inner-city hospital. Fitch CP, et al. **Ophthalmology** 1989 Aug;96(8):1215–20

Outbreak of erythromycin-resistant staphylococcal conjunctivitis in a newborn nursery. Hedberg K, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):268–73

ETIOLOGY

Neisseria cinerea acute purulent conjunctivitis. Au YK, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):96–7

Invasive meningococcal conjunctivitis [letter] Moraga FA, et al. **JAMA** 1990 Jul 18;264(3):333–4

Child sexual abuse and gonococcal conjunctivitis. A case report. O'Farrell N, et al. **S Afr Med J** 1990 Jun 16; 77(12):647–8

[Mycoplasma conjunctivitis: myth or reality?] Liotet S, et al. **Bull Soc Ophtalmol Fr** 1989 Aug–Sep;89(8–9):931–3 **(Fre)**

GENETICS

Multiple tandem promoters of the major outer membrane protein gene (ompI) of Chlamydia psittaci. Yuan Y, et al. **Infect Immun** 1990 Sep;58(9):2850–5

MICROBIOLOGY

Gonococcal conjunctivitis in prepubertal children. Lewis LS, et al. **Am J Dis Child** 1990 May;144(5):546–8

Identification of a conjunctivitis-associated gene locus from the virulence plasmid of Yersinia enterocolitica. Miliotis MD, et al. **Infect Immun** 1990 Aug;58(8):2470–7

Primary meningococcal conjunctivitis [letter] Curran JP, et al. **N Y State J Med** 1989 Nov;89(11):634–5

[The significance of detecting Corynebacterium equi in the conjunctiva of children in Cairo] Sixl W, et al. **Geogr Med Suppl** 1989;3:85–92 (Eng. Abstr.) **(Ger)**

[The pathogen spectrum of the conjunctiva of inhabitants of refuse disposal sites in Cairo. I] Sixl W, et al. **Geogr Med Suppl** 1989;3:97–102 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Prophylaxis of chlamydial conjunctivitis [letter; comment] Combs JT. **Pediatr Infect Dis J** 1990 Mar;9(3):225 Comment on: Pediatr Infect Dis J 1989 Aug;8(8):491–5.

CONJUNCTIVITIS, GIANT PAPILLARY see **CONJUNCTIVITIS, ALLERGIC**

CONJUNCTIVITIS, INCLUSION

[The role of the ophthalmologist in detecting sexually transmitted diseases caused by Chlamydia trachomatis—apropos of 194 cases] Belloir-Furet F. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):403–12, 415–6 (25 ref.) **(Fre)**

[The patient, the doctor, Chlamydia law and reality] Stenberg K. **Lakartidningen** 1990 Feb 7;87(6):367 **(Swe)**

COMPLICATIONS

Chlamydial conjunctivitis and genital gonorrhea in pregnancy. Pamel GJ, et al. **Arch Ophthalmol** 1990 Mar; 108(3):327

DIAGNOSIS

Culture, ELISA and immunofluorescence tests for the

diagnosis of conjunctivitis caused by Chlamydia trachomatis in neonates and adults. Stenberg K, et al. **APMIS** 1990 Jun;98(6):514–20

Diagnosis of neonatal chlamydial conjunctivitis. Phillips G, et al. **Arch Dis Child** 1990 Aug;65(8):894–5

Use of blocking reagent to confirm enzyme immunoassay results in chlamydial conjunctivitis. Mårdh PA, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):292–3

Comparison of two enzyme immunoassays to culture for the diagnosis of chlamydial conjunctivitis and respiratory infections in infants. Hammerschlag MR, et al. **J Clin Microbiol** 1990 Aug;28(8):1725–7

EPIDEMIOLOGY

[Role of Chlamydia trachomatis in the etiology of bacterial conjunctivitis in Dakar (preliminary results)] Cisse MF, et al. **Dakar Med** 1988;33(1–4):75–8 (Eng. Abstr.) **(Fre)**

PREVENTION & CONTROL

[Chlamydia infection and pregnancy—routine screening and treatment of 3,561 pregnant patients] Bülau A, et al. **Gynakol Rundsch** 1989;29(3):180–2 **(Ger)**

TRANSMISSION

[Chlamydia trachomatis infection in a newborn infant delivered by cesarean section] Sato S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Mar;42(3):295–8 (9 ref.) **(Jpn)**

VETERINARY

Monoclonal antibodies to Chlamydia psittaci guinea pig inclusion conjunctivitis (GPIC) strain. Cherian PV, et al. **Vet Microbiol** 1990 Mar;22(1):43–51

CONJUNCTIVITIS, MUCOPURULENT see **CONJUNCTIVITIS, BACTERIAL**

CONJUNCTIVITIS, PURULENT see **CONJUNCTIVITIS, BACTERIAL**

CONJUNCTIVITIS, VERNAL see **CONJUNCTIVITIS, ALLERGIC**

CONJUNCTIVITIS, VIRAL

DIAGNOSIS

Diagnosis and management of conjunctival papillomas [published erratum appears in J Am Optom Assoc 1990 Aug;61(8):597–8] Bailey RN, et al. **J Am Optom Assoc** 1990 May;61(5):405–12

[Rapid diagnosis of adenoviral conjunctivitis] Aoki K, et al. **Nippon Ganka Gakkai Zasshi** 1989 Aug;93(8):865–9 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

An outbreak of infectious conjunctivitis spread by microscopes. Doyle L, et al. **J Occup Med** 1989 Sep; 31(9):758–62

Epidemiology and diagnosis of acute conjunctivitis at an inner-city hospital. Fitch CP, et al. **Ophthalmology** 1989 Aug;96(8):1215–20

An epidemic of adenovirus type 1 conjunctivitis. Chomel JJ, et al. **Pediatr Infect Dis J** 1989 Dec;8(12):884–6

MICROBIOLOGY

Acute non-haemorrhagic conjunctivitis due to coxsackievirus A24. Brooks AM, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):399–403

VETERINARY

Isolation of a poxvirus from a sparrow (Passer domesticus). Herbst W, et al. **Zentralbl Veterinarmed [B]** 1989 Aug; 36(6):477–9

CONNECTING PEPTIDE see **C-PEPTIDE**

CONNECTIVE TISSUE

see related
COLLAGEN

Hydrodynamic properties of connective-tissue polysaccharides. Comper WD, et al. **Biochem J** 1990 Aug 1;269(3):561–4

Monte Carlo modeling of light propagation in highly scattering tissues—II: Comparison with measurements in phantoms. Flock ST, et al. **IEEE Trans Biomed Eng** 1989 Dec;36(12):1169–73

The recovery characteristics of soft tissues following repeated loading. Bader DL. **J Rehabil Res Dev** 1990 Spring;27(2):141–50

[An allograft for stimulation of regeneration of the connective tissue] Pekarskiĭ VV, et al. **Klin Khir** 1990; (2):67–8 **(Rus)**

ANALYSIS

Studies of human pulmonary connective tissue. III. Chemical changes in structural proteins with emphysema. Fitzpatrick M. **Am Rev Respir Dis** 1967 Aug;96(2):254–65

Simultaneous determination of the reducible and nonreducible cross-links of connective tissue. Analysis of mineralized and nonmineralized bone collagen. Graham L, et al. **Biochemistry** 1989 Sep 19;28(19):7889–95

Induction of connective tissue by various alloplastic materials: an experimental study in rats. Mäkisalo SE. **Biomaterials** 1989 Sep;10(7):499–502

Changes in the connective tissue of corpus and cervix uteri during ripening and labour in term pregnancy. Granström L, et al. **Br J Obstet Gynaecol** 1989 Oct;96(10):1198–202

Isolation, purification and partial characterization of novel fluorophores from aging human insoluble collagen-rich tissue. Sell DR, et al. **Connect Tissue Res** 1989;19(1):77–92

Hydrogen/fluorine retuning tomography. Applications to 1H image-guided volume-selective 19F spectroscopy and relaxometry of perfluorocarbon emulsions in tissue. Schnur G, et al. **Magn Reson Med** 1990 Mar;13(3):478–89

Analysis of ecdysteroids in Onchocerca gibsoni, O. volvulus and nodule tissues. Mercer JG, et al. **Trop Med Parasitol** 1989 Dec;40(4):434–9

[Existence of a superposition for negative and positive staining of collagen fibrils] Ortolani F, et al. **Boll Soc Ital Biol Sper** 1988 Oct;64(10):915–22 (Eng. Abstr.) **(Ita)**

ANATOMY & HISTOLOGY

Morphology of the lingual apparatus of the domestic chicken, Gallus gallus, with special attention to the structure of the fasciae. Homberger DG, et al. **Am J Anat** 1989 Nov; 186(3):217–57

Different characteristics of amniotic and cervical collagenous tissue during pregnancy and delivery: a morphologic study. Yoshida Y, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):190–3

The elastic tissue of Bruch's membrane. Connections to choroidal elastic tissue and the ciliary epithelium of the rabbit and human eyes. Korte GE, et al. **Arch Ophthalmol** 1989 Nov;107(11):1654–8

Tissue response to percutaneous implants in rabbits. Jansen JA, et al. **J Biomed Mater Res** 1990 Mar;24(3):295–307

Anatomy of the juncturae tendinum of the hand. von Schroeder HP, et al. **J Hand Surg [Am]** 1990 Jul; 15(4):595–602

[Morphofunctional study of the fibromuscular architecture of the ampullar portion of the human ductus deferens] Biazotto W, et al. **Rev Paul Med** 1988 Nov-Dec; 106(6):323–6 (Eng. Abstr.) **(Por)**

[A method for the differential staining of muscle and connective tissues from organs and their complexes] Kernesiuk NL, et al. **Arkh Patol** 1990;52(5):59–60 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

Relationship of endoneurial capillary abnormalities to type and severity of diabetic polyneuropathy. Britland ST, et al. **Diabetes** 1990 Aug;39(8):909–13

CYTOLOGY

Quantitative study of circadian variations in mast cell number in different regions of the mouse. Chen XJ, et al. **Acta Anat (Basel)** 1989;136(3):222–5

Blood vascular architecture of the rat lingual papillae with special reference to their relations to the connective tissue papillae and surface structures: a light and scanning electron microscope study. Ohshima H, et al. **Acta Anat (Basel)** 1990;137(3):213–21

Cervical connective tissue in relation to pregnancy, labour, and treatment with prostaglandin E2. Uldbjerg N. **Acta Obstet Gynecol Scand Suppl** 1989;148:1–40

Extracellular matrix and cell surface as determinants of connective tissue differentiation. Solursh M. **Am J Med Genet** 1989 Sep;34(1):30–4 (30 ref.)

Effects of interleukin-3 and interleukin-4 on the development of "connective tissue-type" mast cells: interleukin-3 supports their survival and interleukin-4 triggers and supports their proliferation synergistically with interleukin-3. Tsuji K, et al. **Blood** 1990 Jan 15;75(2):421–7

Resurfacing hip arthroplasty. Classification of loosening and the role of prosthesis wear particles. Howie DW, et al. **Clin Orthop** 1990 Jun;(255):144–59

Differences in irradiation susceptibility and turnover between mucosal and connective tissue-type mast cells of mice. Fukuzumi T, et al. **Exp Hematol** 1990 Aug;18(7):843–7

In vitro induction of the fat-storing phenotype in a liver connective tissue cell line-GRX. Borojevic R, et al. **In Vitro Cell Dev Biol** 1990 Apr;26(4):361–8

Characterization of the tissue macrophage and the interstitial dendritic cell as distinct leukocytes normally resident in the connective tissue of rat heart. Spencer SC, et al. **J Exp Med** 1990 Jun 1;171(6):1841–51

Interaction of immune and connective tissue cells: I. The effect of lymphokines and monokines on fibroblast growth. Thornton SC, et al. **J Leukoc Biol** 1990 Apr;47(4):312–20

Characterization of the interstitial cellular infiltrate in experimental chronic cyclosporine nephropathy. Gillum DM, et al. **Transplantation** 1990 Apr;49(4):793–7

[Morphologic studies of the reaction of the subcutaneous connective tissue in rats to implantation of porous ceramics] Kotz J, et al. **Polim Med** 1989;19(3–4):119–25 (Eng. Abstr.) **(Pol)**

DRUG EFFECTS

The effect of Gd-dimeglumine on subcutaneous tissues: a study with rats. McAlister WH, et al. **AJNR** 1990 Mar-Apr;11(2):325–7

Various connective-tissue reactions as influenced by dextrans of different molecular weight. Selye H, et al. **Ann Allergy** 1968 Jan;26(1):1–9

Scanning electron-microscope observations of the perikaryal projections of rabbit spinal ganglion neurons after enzymatic removal of connective tissue and satellite cells. Pannese E, et al. **Cell Tissue Res** 1990 Apr;260(1):167–73

Evaluation of connective tissue cell responses to orthopaedic implant materials. Goldring SR, et al. **Connect Tissue Res** 1990;24(1):77–81

[Connective tissue changes during longterm anticonvulsive therapy] Rothmeier J, et al. **Fortschr Med** 1989 Dec 10; 107(35):743–7 (61 ref.) (Eng. Abstr.) **(Ger)**

[Ultrastructural changes in the histohematic barrier of the liver in the early period after endotoxin administration] Barshteĭn IuA, et al. **Biull Eksp Biol Med** 1989 Sep; 108(9):365–9 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

The behaviour of cells from the distal tips of quail wing buds when grafted back into chick wings after micromass culture. Cottrill CP, et al. **Cell Differ Dev** 1990 Jan; 29(1):67–80

The regulation of primary mesenchyme cell patterning. Ettensohn CA. **Dev Biol** 1990 Aug;140(2):261–71

A comparison of fibronectin, laminin, and galactosyltransferase adhesion mechanisms during embryonic cardiac mesenchymal cell migration in vitro. Loeber CP, et al. **Dev Biol** 1990 Aug;140(2):401–12

ENZYMOLOGY

Connective tissue breakdown in ovulation. Woessner JF Jr, et al. **Steroids** 1989 Nov;54(5):491–9

[The components reflecting the function of the connective tissue and of the protease-antiprotease system in lung pathology] Kochegura TL. **Ter Arkh** 1990;62(3):143–6 (44 ref.) **(Rus)**

GROWTH & DEVELOPMENT

Proteoglycan-collagen interactions and sub-fibrillar structure in collagen fibrils: implications in the development and remodelling of connective tissues. Scott JE. **Biochem Soc Trans** 1990 Jun;18(3):489–90

Study of soft tissue ingrowth into canine porous coated femoral implants designed for osteosarcomas management. LaBerge M, et al. **J Biomed Mater Res** 1990 Jul; 24(7):959–71

IMMUNOLOGY

Changes in the antigenic properties of connective tissue in the skin of embryonic rats during development. Scott DG, et al. **Ann Rheum Dis** 1967 Jul;26(4):319–27

Antigen-induced antigen endocytosis in primitive reticular cells of connective tissue of innervated and denervated skeletal muscle from the allergized guinea pig. Alonso-deFlorida F, et al. **Bol Estud Med Biol** 1989 Jan-Jun;37(1–2):36–41

Autoreactivity to the cardiac myocyte, connective tissue and the extracellular matrix in heart disease and postcardiac injury. Maisch B. **Springer Semin Immunopathol** 1989; 11(4):369–95 (130 ref.)

[Heterogeneity of the immune response to antigens of the muscular and interstitial connective tissue of the heart in patients with rheumatic diseases. I. Age factors and specificity to alpha-galactose] Motovilov AA, et al. **Vestn Akad Med Nauk SSSR** 1989;(7):50–6 (Eng. Abstr.) **(Rus)**

[Heterogenicity of the immune response to antigens of muscular and interstitial connective tissue of the heart in patients with rheumatic diseases. II. Association with ABO antigens] Motovilov AA. **Vestn Akad Med Nauk SSSR** 1989;(9):80–5 (Eng. Abstr.) **(Rus)**

INJURIES

Results of a multicenter trial using an intensive active exercise program for the treatment of acute soft tissue and back injuries. Mitchell RI, et al. **Spine** 1990 Jun;15(6):514–21

METABOLISM

Connective-tissue macromolecules in Golgi chicken tendon organs and at their interface with muscle fibers and adjoining tendinous structures. Maier A, et al. **Am J Anat** 1990 Jul;188(3):239–48

Fibronectin in the ruptured human Achilles tendon and its paratenon. An immunoperoxidase study [see comments] Lehto M, et al. **Ann Chir Gynaecol** 1990;79(2):72–7 Comment in: Ann Chir Gynaecol 1990;79(2):63–4.

Assembly of type I collagen fibrils de novo by the specific enzymic cleavage of pC collagen. The fibrils formed at about 37 degrees C are similar in diameter, roundness, and apparent flexibility to the collagen fibrils seen in connective tissue. Kadler KE, et al. **Ann N Y Acad Sci** 1990;580:214–24

The value of local 99mTc(Sn)-MDP bone to soft tissue uptake ratio in osteoporosis, before and during fluoride therapy. Raymakers JA, et al. **Eur J Nucl Med** 1990;

16(3):157–60

Altered expression of chondroitin sulfate proteoglycan in the stroma of human colon carcinoma. Hypomethylation of PG-40 gene correlates with increased PG-40 content and mRNA levels. Adany R, et al. **J Biol Chem** 1990 Jul 5; 265(19):11389–96

Hormonal regulation of hyaluronate synthesis in cultured human fibroblasts: evidence for differences between retroocular and dermal fibroblasts. Smith TJ, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1019–23

Differential localization of type I and type III procollagen messenger ribonucleic acids in inflamed periodontal and periapical connective tissues by in situ hybridization. Larjava H, et al. **Lab Invest** 1990 Jan;62(1):96–103

Connective tissue metabolism in children with chronic renal failure. Klujber L, et al. **Pediatr Nephrol** 1989 Apr; 3(2):179–85

Physiological potential of ascorbate, beta-carotene and alpha-tocopherol individually and in combination in the prevention of tissue damage, carcinogenesis and immune dysfunction mediated by phagocyte-derived reactive oxidants. Anderson R, et al. **World Rev Nutr Diet** 1990; 62:27–58 (127 ref.)

[Binding affinity of ibuprofen to collagen and other connective tissue components] Menzel EJ, et al. **Arzneimittelforschung** 1990 Apr;40(4):481–3 (Eng. Abstr.) **(Ger)**

[Adrenal regeneration hypertension—effects of vascular connective tissue protein and plasma corticosterone on hypertension in rats with adrenal regeneration hypertension] Nakada T, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Jan;81(1):49–53 (Eng. Abstr.) **(Jpn)**

[Ceruloplasmin and the development of emphysema—facts or hypothesis?] Nowak D, et al. **Pneumonol Pol** 1990 Apr–May;58(4–5):258–62 **(Pol)**

[Metabolism of the connective tissue in generalized scleroderma] Kucharz EJ, et al. **Postepy Hig Med Dosw** 1989;43(1):93–102 (73 ref.) (Eng. Abstr.) **(Pol)**

[3H-thymidine incorporation by interstitial myocardial cells in the rat with a single administration of the label] Zamaraeva EV. **Biull Eksp Biol Med** 1989 Dec; 108(12):739–41 (Eng. Abstr.) **(Rus)**

[The correction of disorders in transcapillary metabolism in children with rheumatoid arthritis by using health resort therapy] Ivanova MV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec; (6):27–30 (Eng. Abstr.) **(Rus)**

[Biochemical changes in the connective tissue components of malignant tumors and lungs in mice during metastatic spreading and chemotherapy] Chubinskaia SG, et al. **Vopr Med Khim** 1989 Sep–Oct;35(5):30–4 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Isolation of Onchocerca gibsoni tissue from frozen nodules for biochemical use. Semprevivo LH, et al. **Int J Parasitol** 1989 Dec;19(8):957–9

PATHOLOGY

Etretinate reduces connective tissue degeneration in lichen sclerosus et atrophicus. Niinimäki A, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):439–42

Quantitative alterations of intramuscular connective tissue in calf muscles of the rat during combined hypoxia and hypokinesia. Józsa L, et al. **Acta Physiol Hung** 1989; 73(4):393–401

Soft tissue cysticercosis. Diagnosis by fine-needle aspiration. Kung IT, et al. **Am J Clin Pathol** 1989 Dec;92(6):834–5

An immunohistochemical study of architectural remodeling and connective tissue synthesis in pulmonary fibrosis. Kuhn C 3d, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1693–703

The interaction between host-supplied connective tissue and xenografted human tumor cells. Köpf-Maier P, et al. **Anticancer Res** 1990 Jan–Feb;10(1):161–71

Effects of interferon on tumor tissue content in liver metastases of human carcinoid tumors. Andersson T, et al. **Cancer Res** 1990 Jun 1;50(11):3413–5

Connective tissue biology and hepatic fibrosis: report of a conference. Bissell DM, et al. **Hepatology** 1990 Mar; 11(3):488–98 (106 ref.)

Lesions produced by splinters of wood in soft tissues and bone. Middha VP, et al. **Int Orthop** 1990;14(1):47–8

Angiogenic histogenesis of non-hematopoietic mesenchymal hyperplasias and tumors [letter] Beranek JT. **J Cutan Pathol** 1990 Jun;17(3):189–90

Role of pericytes and endothelial cells in tissue repair and related pathological processes [letter] Díaz-Flores L, et al. **J Cutan Pathol** 1990 Jun;17(3):191–2

Not all spindled-shaped cells embedded in a collagenous stroma are fibroblasts: recognition of the "collagen-associated dendrophage" [letter] Nickoloff BJ, et al. **J Cutan Pathol** 1990 Aug;17(4):252–4

Inhibition of connective tissue formation in dermal wounds covered with synthetic, moisture vapor-permeable dressings and its reversal by transforming growth factor-beta. Ksander GA, et al. **J Invest Dermatol** 1990 Aug;95(2):195–201

Stromal changes in early invasive breast carcinoma. An immunohistochemical, histoenzymological and ultrastructural study. Chomette G, et al. **Pathol Res Pract** 1990 Feb;186(1):70–9

Nonarticular soft tissues. Wilson AJ. **Top Magn Reson Imaging** 1989 Sep;1(4):1–16 (41 ref.)

The connective tissue and contractile response of the myocardium to the development and regression of hypertrophy. Williams JF Jr, et al. **Trans Am Clin Climatol Assoc** 1988;100:107–14

[Acceptance of polytetrafluoroethylene by subcutaneous connective tissue] Richter EJ. **Biomed Tech (Berlin)** 1989 Oct;34(10):243–7 (Eng. Abstr.) **(Ger)**

[The effect of housing on the development of calluses and subcutaneous mucus cysts on the limbs of swine (published erratum appears in DTW Dtsch Tierarztl Wochenschr 1990 May;97(5):following 215)] Probst D, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):11–4 (Eng. Abstr.) **(Ger)**

[Morphological features of milky spots of the rat omentum in inflammation] Kremli SM, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):616–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Taxol-induced neuropathy after nerve crush: long-term effects on Schwann and endoneurial cells. Vuorinen VS, et al. **Acta Neuropathol (Berl)** 1990;79(6):653–62

Transforming growth factors-beta 1 and beta 2 enhance connective tissue formation in animal models of dermal wound healing by secondary intent. Ksander GA, et al. **Ann N Y Acad Sci** 1990;593:135–47

Exogenous transforming growth factor-beta 2 enhances connective tissue formation and wound strength in guinea pig dermal wounds healing by secondary intent. Ksander GA, et al. **Ann Surg** 1990 Mar;211(3):288–94

Heating produced by ultrasound in bone and soft tissue. Lehmann JF, et al. **Arch Phys Med Rehabil** 1967 Aug; 48(8):397–401

In-vitro formation of a collagenous matrix upon previously diseased and experimentally treated cemental root surfaces. Bernstein AB, et al. **Cell Tissue Res** 1990 Mar;259(3):603–6

Organization of connective tissue patterns by dermal fibroblasts in the regenerating axolotl limb. Holder N. **Development** 1989 Mar;105(3):585–93

Comparison of models for flow induced deformation of soft biological tissue. Barry SI, et al. **J Biomech** 1990; 23(7):647–54

Epithelium-dependent extracellular matrix synthesis in transforming growth factor-beta 1-growth-inhibited mouse mammary gland. Silberstein GB, et al. **J Cell Biol** 1990 Jun;110(6):2209–19

Epithelial growth by rat vibrissae follicles in vitro requires mesenchymal contact via native extracellular matrix. Link RE, et al. **J Invest Dermatol** 1990 Aug;95(2):202–7

The potential of adult human perichondrium to form hyalin cartilage in vitro. Bulstra SK, et al. **J Orthop Res** 1990 May;8(3):328–35

Histologic evaluation of new attachment apparatus formation in humans. Part I. Bowers GM, et al. **J Periodontol** 1989 Dec;60(12):664–74

Histologic evaluation of new attachment apparatus formation in humans. Part II. Bowers GM, et al. **J Periodontol** 1989 Dec;60(12):675–82

Histologic evaluation of new attachment apparatus formation in humans. Part III. Bowers GM, et al. **J Periodontol** 1989 Dec;60(12):683–93

Evaluation of guided tissue regeneration in Class II furcation defects. A clinical re-entry study. Lekovic V, et al. **J Periodontol** 1989 Dec;60(12):694–8

A correlative study of axonal and perineurial regenerations after crush nerve injury in rat sciatic nerve. Hirasawa Y, et al. **Nippon Geka Hokan** 1988 Nov 1;57(6):493–505

Achilles tendon replacement by a collagen fiber prosthesis: morphological evaluation of neotendon formation. Wasserman AJ, et al. **Scanning Microsc** 1989 Dec; 3(4):1183–97; discussion 1197–200

Biological and pharmacological modulations of fibroblast functions. Heckmann M, et al. **Skin Pharmacol** 1989; 2(3):125–37 (127 ref.)

Electrical charge properties of connective tissue in the insect central nervous system, with regard to ionic homeostasis of the nerve cell environment. Schofield PK. **Symp Soc Exp Biol** 1989;43:379–88 (38 ref.)

[Tissue interactions as a factor of structure formation in ontogenesis and phylogenesis of vertebrates] Studitskiĭ AN. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):81–6 (62 ref.) **(Rus)**

[Low frequency mechanical properties of human hand soft tissue] Kazakov VV, et al. **Biofizika** 1989 Jul–Aug; 34(4):688–92 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Biorheology of swelling tissue [letter] Mow VC, et al. **Biorheology** 1990;27(1):110–9

Physiological changes in the sciatic nerve endoneurium of lead-intoxicated rats: a model of endoneurial homeostasis. Weerasuriya A, et al. **Brain Res** 1990 May 28;517(1–2):1–6

RADIATION EFFECTS

Transforming growth factor beta: a promotor of late connective tissue injury following radiotherapy? Canney PA, et al. **Br J Radiol** 1990 Aug;63(752):620–3

SURGERY

Recognising aponeurotic ptosis. Deady JP, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):996–8

TRANSPLANTATION

Host-supplied connective tissue as a guide for proliferating tumor cells in human tumor xenografts. Köpf-Maier P, et al. **Acta Anat (Basel)** 1989;135(4):289–95

Cartilage resurfacing of the rabbit knee. The use of an allogeneic demineralized bone matrix-autogeneic perichondrium composite implant. Billings E Jr, et al. **Acta Orthop Scand** 1990 Jun;61(3):201–6

Localized alveolar ridge augmentation using a connective tissue graft. Case report. Kitchings SK. **Aust Dent J** 1990 Feb;35(1):38–41

The survival and nature of the immune response to soft-tissue and composite-tissue allografts in rats treated with low-dose cyclosporine. Sobrado L, et al. **Transplantation** 1990 Sep;50(3):381–5

ULTRASTRUCTURE

Scanning electron microscopy of the connective tissue along the lateral wall of the mouse cochlear duct with special reference to the external sulcus cells. Küçük B, et al. **Arch Histol Cytol** 1990 Jul;53(3):297–305

Do connective tissue components induce plasma activation in vivo? Baccaro MR, et al. **Braz J Med Biol Res** 1989; 22(4):485–9

Coalignment of microtubules, cytokeratin intermediate filaments, and collagen fibrils in a collagen-secreting cell system. McBeath E, et al. **Eur J Cell Biol** 1989 Dec; 50(2):510–21

The biological evolution of the Leeds-Keio ligament in the human knee. A histological and ultrastructural study. Mollica Q, et al. **Ital J Orthop Traumatol** 1988 Dec; 14(4):501–12

Matrix-associated heparan sulfate proteoglycan: core protein-specific monoclonal antibodies decorate the pericellular matrix of connective tissue cells and the stromal side of basement membranes. Heremans A, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):3199–211

Collagen fibrillogenesis in vitro: interaction of types I and V collagen regulates fibril diameter. Birk DE, et al. **J Cell Sci** 1990 Apr;95 (Pt 4):649–57

Connective tissue diseases in the skin—from molecules to symptoms. Krieg T, et al. **J Dermatol** 1990 Feb;17(2):67–84 (191 ref.)

Pleomorphism in type I collagen fibrils produced by persistence of the procollagen N-propeptide. Hulmes DJ, et al. **J Mol Biol** 1989 Nov 20;210(2):337–45

Natural-Y Même polyurethane versus smooth silicone: analysis of the soft-tissue interaction from 3 days to 1 year in the rat animal model. Picha GJ, et al. **Plast Reconstr Surg** 1990 Jun;85(6):903–16

[The microtexture of amnion and chorion connective tissue] Klima G, et al. **Anat Anz** 1989;168(5):395–400 (Eng. Abstr.) **(Ger)**

[Three-dimensional architecture of the connective tissue papillae of the mouse tongue as viewed by scanning electron microscopy] Kobayashi K, et al. **Kaibogaku Zasshi** 1989 Dec;64(6):523–38 (Eng. Abstr.) **(Jpn)**

CONNECTIVE TISSUE DISEASE, MIXED see **MIXED CONNECTIVE TISSUE DISEASE**

CONNECTIVE TISSUE DISEASES

see related
BONE DISEASES, DEVELOPMENTAL

Cutaneous and ocular manifestations of Down syndrome. Scherbenske JM, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 2):933–8 (22 ref.)

Striae and systemic abnormalities of connective tissue [letter; comment] Pottkotter L. **JAMA** 1989 Dec 8;262(22):3132 Comment on: JAMA 1989 Jul 28;262(4):523–8.

[An overview of connective tissue disorders] Nagai Y. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):798–800 **(Jpn)**

CHEMICALLY INDUCED

Eosinophilic neuritis, perimyositis, and vasculitis associated with ingestion of L-tryptophan. Kaufman LD, et al. **J Rheumatol** 1990 Jun;17(6):795–800

Tryptophan-associated eosinophilic connective-tissue disease. A new clinical entity? Clauw DJ, et al. **JAMA** 1990 Mar 16;263(11):1502–6

[Drug-induced syndromes of the locomotor system] Keitel W, et al. **Z Arztl Fortbild (Jena)** 1989;83(24):1227–9 (15 ref.) **(Ger)**

CLASSIFICATION

Connective tissue diseases: classification, clinical features and diagnostic imaging. Di Maggio C, et al. **Rays** 1989 Jul–Sep; 14(3):265–80 (31 ref.)

COMPLICATIONS

Cyanosis and Raynaud's phenomenon: the relation to underlying disease and venous abnormalities. Engelhart M, et al. **Angiology** 1990 Jun;41(6):432–8

'The hypermobility syndrome'. Grahame R. **Ann Rheum Dis** 1990 Mar;49(3):199–200 (19 ref.)

Spontaneous rupture of the internal elastic lamina in the rat: the manifestation of a genetically determined factor which may be linked to vascular fragility. Capdeville M, et al. **Blood Vessels** 1989;26(4):197–212

Pulmonary hypertension in connective tissue disease [editorial; comment] Demedts M. **Clin Rheumatol** 1990 Mar;9(1):20–1 Comment on: Clin Rheumatol 1990 Mar;9(1):56–62.

Pulmonary hypertension in connective tissue disease. Clinical analysis of sixty patients in multi-institutional study [see comments] Kazukawa R, et al. **Clin Rheumatol** 1990 Mar; 9(1):56–62 Comment in: Clin Rheumatol 1990 Mar;9(1):20–1.

Trigeminal sensory neuropathy associated with connective tissue diseases. Hagen NA, et al. **Neurology** 1990 Jun; 40(6):891–6

Corneal thinning as the sole manifestation of active undifferentiated connective tissue disease. Colon LE, et al. **South Med J** 1990 Jan;83(1):48–50

[Idiopathic portal hypertension associated with connective tissue disease similar to systemic lupus erythematosus (see comments)] Drouhin F, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):829–33 (33 ref.) (Eng. Abstr.) Comment in: Gastroenterol Clin Biol 1989 Oct;13(10):761–2. **(Fre)**

[Vasculitis associated with connectivitis] Merazzi D, et al. **Pediatr Med Chir** 1989 Mar–Apr;11 Suppl 1:43–55 (79 ref.) (Eng. Abstr.) **(Ita)**

[Cardiac manifestations of connective tissue diseases] Dutschmann L, et al. **Acta Med Port** 1989 Mar–Apr; 2(2):103–10 (104 ref.) (Eng. Abstr.) **(Por)**

[Elastosis perforans serpiginosa associated with Down's syndrome and sex-linked ichthyosis. Treatment with 13-cis-retinoic acid] Diaz F, et al. **Med Cutan Ibero Lat Am** 1989;17(4):209–14 (Eng. Abstr.) **(Spa)**

[Double rheumatologic disease in a woman: ankylopoietic spondylitis associated with connective tissue pathology (letter)] Echániz A, et al. **Rev Clin Esp** 1989 Oct; 185(5):270–1 **(Spa)**

DIAGNOSIS

Use of recombinant RNP peptides 70K and A in an ELISA for measurement of antibodies in mixed connective tissue disease: a longitudinal follow up of 18 patients. de Rooij DJ, et al. **Ann Rheum Dis** 1990 Jun;49(6):391–5

Clinical considerations in Buschke-Ollendorff syndrome. Walpole IR, et al. **Clin Genet** 1990 Jan;37(1):59–63

The diagnostic value of several immunological tests for anti-nuclear antibody in predicting the development of connective tissue disease in patients presenting with Raynaud's phenomenon. Wollersheim H, et al. **Eur J Clin Invest** 1989 Dec;19(6):535–41

Autoantibodies as diagnostic tool in juvenile connective tissue diseases. Egeskjold EM. **Indian J Pediatr** 1989 May–Jun;56(3):335–42

Soft tissue abscess caused by Mycobacterium fortuitum. Westmoreland D, et al. **J Infect** 1990 May;20(3):223–5

Early detection of connective tissue disease in patients with Raynaud's phenomenon. Kallenberg CG. **Rheum Dis Clin North Am** 1990 Feb;16(1):11–30 (80 ref.)

Nonarticular soft tissues. Wilson AJ. **Top Magn Reson Imaging** 1989 Sep;1(4):1–16 (41 ref.)

[Primary fibromyalgia (fibrositis) syndrome (PFS)] Stojan B. **Schweiz Rundsch Med Prax** 1990 Mar 13;79(11):311–3 (31 ref.) **(Ger)**

[An atypical case of infantile vasculitis] Murgescu T, et al. **Rev Pediatr Obstet Ginecol [Pediatr]** 1989 Apr–Jun; 38(2):181–3 **(Rum)**

DRUG THERAPY

Methotrexate in rheumatoid arthritis and related diseases. Mason DH Jr, et al. **Curr Opin Rheumatol** 1989 Jun; 1(1):44–51 (28 ref.)

Injections for joint and soft tissue disorders: when and how to use them. Zuckerman JD, et al. **Geriatrics** 1990 Apr; 45(4):45–52, 55 (23 ref.)

Prednisolone purpura. Singhvi GR, et al. **J Assoc Physicians India** 1989 Aug;37(8):541–2

ENZYMOLOGY

Anionic salivary proteins associated with connective tissue disorders: sialated tissue kallikreins. Greaves D, et al. **Ann Rheum Dis** 1989 Sep;48(9):753–9

ETIOLOGY

snRNPs and scRNPs as autoantigens: clues to the etiology of the connective tissue diseases. Craft J, et al. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):10–8 (24 ref.)

Orthopaedic aspects of fragile-X syndrome. Davids JR, et al. **J Bone Joint Surg [Am]** 1990 Jul;72(6):889–96 (37 ref.)

[Infections of soft tissues by bacterial synergism] Fichelle A, et al. **Ann Fr Anesth Reanim** 1990;9(3):269–74 (Eng. Abstr.) **(Fre)**

GENETICS

20th anniversary, Clinical Genetics Conference. Heritable disorders of connective tissue and skeletal dysplasias. July 10–13, 1988, Baltimore, Maryland. Proceedings. **Am J Med Genet** 1989 Sep;34(1):1–147

Type I procollagen: the gene–protein system that harbors most of the mutations causing osteogenesis imperfecta and probably more common heritable disorders of connective tissue. Prockop DJ, et al. **Am J Med Genet** 1989 Sep; 34(1):60–7 (68 ref.)

A Polish variant of isolated dentinogenesis imperfecta with a generalised connective tissue defect. Komorowska A, et al. **Br Dent J** 1989 Oct 7;167(7):239–43

IMMUNOLOGY

In vivo antinuclear antibody of the skin: diagnostic significance and association with selective antinuclear antibodies. Velthuis PJ, et al. **Ann Rheum Dis** 1990 Mar; 49(3):163–7

Human autoantibodies against the 70-kd polypeptide of U1 small nuclear RNP are associated with HLA-DR4 among connective tissue disease patients. Hoffman RW, et al. **Arthritis Rheum** 1990 May;33(5):666–73

Antibodies to extractable nuclear antigens in connective tissue disorders in India: prevalence and clinical correlations. Singh RR, et al. **Asian Pac J Allergy Immunol** 1989 Dec;7(2):107–12

Factor VIII related antigen in connective tissue disease patients and relatives. James JP, et al. **Br J Rheumatol** 1990 Feb;29(1):6–9

Development of an enzyme-linked immunosorbent assay with a monoclonal antibody prepared against alpha 1-antitrypsin for diagnostic screening of inflammatory disorders. Silvestrini B, et al. **Clin Chem** 1990 Feb; 36(2):277–82

Small nuclear RNA associated proteins: autoantigens in connective tissue diseases. Van Venrooij WJ, et al. **Clin Exp Rheumatol** 1989 Nov–Dec;7(6):635–45 (73 ref.)

Second European Symposium on Anti-nuclear and Anti-cytoplasmic Antibodies in Inflammatory Connective Diseases. Leuven, Belgium, May 25–27, 1989. Proceedings. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):1–140

Autoantibody production against the U small nuclear ribonucleoprotein particle proteins E, F and G in patients with connective tissue diseases. Reuter R, et al. **Eur J Immunol** 1990 Feb;20(2):437–40

Immunological features of diffuse connective tissue diseases. Burgio GR, et al. **Eur J Pediatr** 1990 Jan;149(4):224–31 (59 ref.)

Heterogeneity of ribosomal autoantibodies from human, murine and canine connective tissue diseases. Absi M, et al. **Immunol Lett** 1989 Nov;23(1):35–41

[Preliminary report on the clinical application of anti-Jo-1 antibody] Dong Y, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jun;28(6):368–9, 383 (Eng. Abstr.) **(Chi)**

[Herpes zoster in immunosuppressed patients with immuno-inflammatory disease] Schou M, et al. **Ugeskr Laeger** 1989 Nov 27;151(48):3239–41 (Eng. Abstr.) **(Dan)**

[Detection and antigenic characterization of antinuclear antibodies in connective tissue inflammation] de Marneffe P, et al. **Rev Med Liege** 1989 Oct 1;44(19):577–91 (80 ref.) **(Fre)**

[Significance of anticardiolipin antibodies in connective tissue diseases] Scagliusi P, et al. **Minerva Med** 1989 Oct; 80(10):1059–68 (Eng. Abstr.) **(Ita)**

[Progress in laboratory tests of connective tissue diseases] Yamane K, et al. **Rinsho Byori** 1989 Dec;37(12):1311–6 (Eng. Abstr.) **(Jpn)**

[Immunologic anomalies in inflammatory diseases of connective tissue in children] Popescu V, et al. **Rev Pediatr Obstet Ginecol [Pediatr]** 1989 Apr–Jun; 38(2):161–72 (Eng. Abstr.) **(Rum)**

[Positive immunofluorescence reaction in cell nuclei in the undamaged skin of patients with systemic connective tissue diseases] Pleško vnik M, et al. **Reumatizam** 1988;35(1–6):7–17 (Eng. Abstr.) **(Scr)**

METABOLISM

Fibrillin immunoreactive fibers constitute a unique network in the human dermis: immunohistochemical comparison of the distributions of fibrillin, vitronectin, amyloid P component, and orcein stainable structures in normal skin and elastosis. Dahlbäck K, et al. **J Invest Dermatol** 1990 Mar;94(3):284–91

MICROBIOLOGY

Soft-tissue Pasteurella multocida infection caused by a fish bone puncture [letter] Corredoira JC, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):55–6

PATHOLOGY

Bone marrow findings in connective tissue disease. Rosenthal NS, et al. **Am J Clin Pathol** 1989 Nov;92(5):650–4

Skin is a window on heritable disorders of connective tissue. Holbrook KA, et al. **Am J Med Genet** 1989 Sep; 34(1):105–21 (89 ref.)

The genetics of otosclerosis: a review. Gordon MA. **Am J Otol** 1989 Nov;10(6):426–38 (76 ref.)

Fibrous-adipose replacement in skeletal muscle biopsy. Mora M. **Eur Heart J** 1989 Sep;10 Suppl D:103–4

Connective tissue diseases in the skin—from molecules to symptoms. Krieg T, et al. **J Dermatol** 1990 Feb;17(2):67–84 (191 ref.)

[Capillary microscopy, electron microscopy and immunohistologic studies in the diagnosis of collagen diseases] Leyhe A, et al. **Vasa Suppl** 1989;27:72 **(Ger)**

[Atrophic panniculitis of connective tissue. Report of a case] Miralles Adárraga T, et al. **An Esp Pediatr** 1990 Jan; 32(1):83–4 **(Spa)**

PHYSIOPATHOLOGY

[Hemodynamic and lung function analytic findings in so-called collagen diseases] Doppl W, et al. **Pneumologie** 1990 Feb;44 Suppl 1:542–3 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Abdominal lymphographic pattern in connective tissue diseases is quite similar to that observed in lymphocytic lymphoma [letter] Bertolino G, et al. **Blut** 1989 Oct; 59(4):398–9

SURGERY

The surgical management of atypical mycobacterial soft-tissue infections. Rappaport W, et al. **Surgery** 1990 Jul; 108(1):36–9

THERAPY

[Rehabilitation treatment of children in ambulatory-polyclinical conditions] Grebesheva II, et al. **Pediatriia** 1989;(9):85–9 **(Rus)**

CONN'S DISEASE see **HYPERALDOSTERONISM**

CONRADI-HUNERMANN SYNDROME see **CHONDRODYSPLASIA PUNCTATA**

CONSANGUINITY

Human genetic studies in areas of high natural radiation. VIII. Genetic load not related to radiation. Freire-Maia A, et al. **Am J Hum Genet** 1975 May;27(3):385–93

Fibular hypoplasia and complex brachydactyly (Du Pan syndrome) in an inbred Pakistani kindred. Ahmad M, et al. **Am J Med Genet** 1990 Jul;36(3):292–6

Fraser syndrome with renal agenesis in two consanguineous Turkish families. Francannet C, et al. **Am J Med Genet** 1990 Aug;36(4):477–9

Genetic effects in Brazilian populations due to consanguineous marriages. Freire-Maia N. **Am J Med Genet** 1990 Jan;35(1):115–7

Five landmarks in inbreeding studies. Freire-Maia N. **Am J Med Genet** 1990 Jan;35(1):118–20 (17 ref.)

Genetics of conotruncal malformations: review of the literature and report of a consanguineous kindred with various conotruncal malformations. Rein AJ, et al. **Am J Med Genet** 1990 Jul;36(3):353–5 (17 ref.)

Inbreeding effects on fetal growth in Beirut, Lebanon. Khlat M. **Am J Phys Anthropol** 1989 Dec;80(4):481–4

Inbreeding effects on bilateral asymmetry of dermatoglyphic patterns. Mukherjee A. **Am J Phys Anthropol** 1990 Jan; 81(1):77–89

Factors influencing the growth of Bahraini school-children [letter; comment] Bittles AH. **Ann Hum Biol** 1989 Nov-Dec;16(6):553–5 Comment on: Ann Hum Biol 1989 Mar-Apr;16(2):155–67.

Consanguinity, spousal age at marriage and fertility in seven Pakistani Punjab cities. Shami SA, et al. **Ann Hum Biol** 1990 Mar-Apr;17(2):97–105

Inbreeding in the Utah Mormons: an evaluation of estimates based on pedigrees, isonymy, and migration matrices. Jorde LB. **Ann Hum Genet** 1989 Oct;53 (Pt 4):339–55

Surname versus gene structure of a small isolate. Presciuttini S, et al. **Ann Hum Genet** 1990 Jan;54 (Pt 1):79–90

Consanguinity among parents of hearing-impaired children in relation to ethnic groups in the Jewish population of Jerusalem. Feinmesser M, et al. **Audiology** 1989; 28(5):268–71

Consanguineous marriage [letter] Morar N. **BMJ** 1990 Aug 18–25;301(6748):389–90

The use of genetic markers for personal identification and the analysis of family relationships. Debenham P. **Ciba Found Symp** 1990;149:37–43; discussion 43–7

Real effects of consanguinity [letter] Başaran N. **Clin Genet** 1990 Jun;37(6):493

The effect of consanguinity on the reproductive wastage in the Turkish population [see comments] Başaran N, et al. **Clin Genet** 1989 Sep;36(3):168–73 Comment in: Clin Genet 1990 May;37(5):415.

Consanguinity and the genetic control of Down syndrome. Hamamy HA, et al. **Clin Genet** 1990 Jan;37(1):24–9

Consanguinity and confounding [letter; comment] Jeppesen EZ, et al. **Clin Genet** 1990 May;37(5):415 Comment on: Clin Genet 1989 Sep;36(3):168–73.

Effects of consanguineous matings on anthropometric measurements of Saudi newborn infants. Saedi-Wong S, et al. **Fam Pract** 1989 Sep;6(3):217–20

The frequency and medical effects of consanguineous marriages in Antalya, Turkey. Güz K, et al. **Hereditas** 1989; 111(1):79–83

Inbreeding as measured by isonymy in two Venezuelan populations and its relationship to other variables. Castro de Guerra D, et al. **Hum Biol** 1990 Apr;62(2):269–78

The estimation of inbreeding from isonymy. 1980 [classical

article] Crow JF. **Hum Biol** 1989 Oct–Dec;61(5–6):935–48; discussion 949–54

Examining population structure through the use of surname matrices: methodology for visualizing nonrandom mating. Kosten M, et al. **Hum Biol** 1990 Jun;62(3):319–35

Are there anthropometric differences between the offspring of endogamous and exogamous matings? Lasker G, et al. **Hum Biol** 1990 Apr;62(2):247–9

Comparison of two Venezuelan populations using the coefficient of relationship by isonymy. Pinto-Cisternas J, et al. **Hum Biol** 1990 Jun;62(3):413–9

Inbreeding coefficients of the Ramah Navaho population. 1953. [classical article] Spuhler JN, et al. **Hum Biol** 1989 Oct–Dec;61(5–6):703–25; discussion 726–30

Consanguinity and reproductive health in Iraq. Hamamy HA, et al. **Hum Hered** 1989;39(5):271–5

Inbreeding effects on reproductive outcome in a Sudanese population. Saha N, et al. **Hum Hered** 1990;40(4):208–12

Endogamy among the Dogon of Boni, Mali. Cazes MH. **J Biosoc Sci** 1990 Jan;22(1):85–99

Race, consanguinity and social features in Birmingham babies: a basis for prospective study. Bundey S, et al. **J Epidemiol Community Health** 1990 Jun;44(2):130–5

Hurler–Scheie phenotype associated with consanguinity. Davies DL, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:365–8

On the classification of regular systems of inbreeding. Boucher W, et al. **J Math Biol** 1990;28(3):293–305

Consanguinity and its effect on fetal growth and development: a south Indian study. Kulkarni ML, et al. **J Med Genet** 1990 Jun;27(6):348–52

Inbreeding effects on average heterozygosity in the Sudan. Saha N, et al. **Jinrui Idengaku Zasshi** 1989 Sep;34(3):225–9

Parallel cousin marriages in Madras, Tamil Nadu: new trends in Dravidian kinship. Ramesh A, et al. **Soc Biol** 1989 Fall–Winter;36(3–4):248–54

Epidemiological observations of consanguinity and retinoblastoma in Arabia. A retrospective study. Bahakim HM, et al. **Trop Geogr Med** 1989 Oct;41(4):361–4

[Genetic study of congenital afibrinogenemia: apropos of 7 families] Meddeb B, et al. **Tunis Med** 1989 May;67(5):315–9 (Eng. Abstr.) **(Fre)**

[Inbreeding coefficient in carriers of Schistosoma mansoni] Tavares-Neto J, et al. **Rev Soc Bras Med Trop** 1989 Jan–Mar;22(1):45–9 (Eng. Abstr.) **(Por)**

[Epistatic interactions of genes in the descendants of distant marriages among the Russian population] Dubrova IuE, et al. **Dokl Akad Nauk SSSR** 1989 Nov–Dec;309(1):211–4 **(Rus)**

[Clinico-genealogical characteristics of hemophilia A in a large inbred kindred] Kozlova SI, et al. **Genetika** 1989 Nov; 25(11):2090–5 (Eng. Abstr.) **(Rus)**

CONSCIENCE see under **MORALS**

CONSCIOUSNESS

see related
UNCONSCIOUSNESS

Hypnotizability testing and clinical hypnosis [letter; comment] McCue FA. **Am J Clin Hypn** 1990 Apr; 32(4):294–5 Comment on: Am J Clin Hypn 1989 Jul;32(1):2–3.

The hypnotic relationship and the holographic paradigm. Smith A. **Am J Clin Hypn** 1990 Jan;32(3):183–93

Hypnotic susceptibility in kavadi carriers in Singapore. Kok LP. **Ann Acad Med Singapore** 1989 Nov;18(6):655–7

CPR-dependent consciousness: evidence for cardiac compression causing forward flow. Lewinter JR, et al. **Ann Emerg Med** 1989 Oct;18(10):1111–5

Sleepwalking, night terrors, and consciousness. Crisp AH, et al. **BMJ** 1990 Feb 10;300(6721):360–2

Negative hallucinations, other irretrievable experiences and two functions of consciousness. Brakel LW. **Int J Psychoanal** 1989;70 (Pt 3):461–79

Drive theory and the metapsychology of experience. Opatow B. **Int J Psychoanal** 1989;70 (Pt 4):645–60

Brain shift, level of consciousness, and restoration of consciousness in patients with acute intracranial hematoma. Ross DA, et al. **J Neurosurg** 1989 Oct;71(4):498–502

Transcendental meditation, mindfulness, and longevity: an experimental study with the elderly. Alexander CN, et al. **J Pers Soc Psychol** 1989 Dec;57(6):950–64

A case of death due to dragging by a car: establishment of a homicide because of conscious negligence. Fukushima H, et al. **Nippon Hoigaku Zasshi** 1990 Apr;44(2):186–90

[Life style and right to clean air in public places (RCA) (Part 2). The relationship between life style and the aspect of knowledge level of the consciousness towards smoking regulations among employees] Hagihara A, et al. **Sangyo Igaku** 1990 Mar;32(2):125–34 (Eng. Abstr.) **(Jpn)**

[Schizophrenic ego-dysfunction as a problem of the consciousness act] Nakajima S. **Seishin Shinkeigaku Zasshi** 1989;91(7):475–99 **(Jpn)**

[The effects of conscious and subconscious processing of hostility- or friendliness-related words on the personality impression of others] Ikegami T, et al. **Shinrigaku Kenkyu** 1989 Apr;60(1):38–44 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

[The action of dilantin on the state of consciousness] Spivak DL. **Fiziol Cheloveka** 1989 Jul–Aug;15(4):16–23 **(Rus)**

PHYSIOLOGY

Renal responses to graded hemorrhage in conscious pig. Sondeen JL, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):R119–25

A new method for hemodynamic and echocardiographic assessment of conscious dogs: comparison with thiopental–morphine anaesthesia. Howard RJ, et al. **Clin Invest Med** 1990 Feb;13(1):6–10

Field model of consciousness: EEG coherence changes as indicators of field effects. Travis FT, et al. **Int J Neurosci** 1989 Dec;49(3–4):203–11

Preservation of consciousness in a decerebrating head injured patient. Mahapatra AK, et al. **J Assoc Physicians India** 1990 Apr;38(4):305–6

Outcome in 134 patients with prolonged posttraumatic unawareness. Part 2: Functional outcome of 72 patients recovering consciousness. Groswasser Z, et al. **J Neurosurg** 1990 Jan;72(1):81–4

Patients may not recall disclosure of risk of death: implications for informed consent. Wade TC. **Med Sci Law** 1990 Jul;30(3):259–62

Cardiovascular effects of flesinoxan in anaesthetized and conscious dogs. Grohs JG, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 May; 341(5):472–5

CONSCIOUSNESS DISORDERS see under **COGNITION DISORDERS**

CONSENSUS DEVELOPMENT CONFERENCES

Management of asthma: a consensus statement [letter; comment] Godfrey S. **Arch Dis Child** 1989 Dec; 64(12):1760–1 Comment on: Arch Dis Child 1989 Jul;64(7):1065–79.

Nursing classification systems—discussion and future directions. Introduction. Loomis ME, et al. **J Prof Nurs** 1990 May–Jun;6(3):141–2

Consensus conferences [letter] Costain D. **Lancet** 1990 Jul 14;336(8707):120

Nonsensus consensus. Skrabanek P. **Lancet** 1990 Jun 16; 335(8703):1446–7 (2 ref.)

[Consensus about consensus. A critical consideration of the procedure of the CBO-consensus development (Central Support Organ for Peer Review)] Grol RP, et al. **Ned Tijdschr Geneeskd** 1990 Jun 16;134(24):1186–9 (8 ref.) **(Dut)**

[Expert committees and their intellectual abridgements] Pilet F. **Rev Med Suisse Romande** 1989 Dec;109(12):1051–2 **(Fre)**

[Consensus conferences: a form of rationalizing medical intervention (editorial)] Honorato J. **Rev Clin Esp** 1990 Mar;186(5):199–200 **(Spa)**

[The consensus conferences come to our country. A rational instrument for evaluating and disseminating medical technology] Banegas JR. **Rev Sanid Hig Publica (Madr)** 1989 May–Jun;63(5–6):7–14 (38 ref.) **(Spa)**

CONSENSUS WORKSHOPS see **CONSENSUS DEVELOPMENT CONFERENCES**

CONSERVATION OF ENERGY RESOURCES see under **CONSERVATION OF NATURAL RESOURCES**

CONSERVATION OF NATURAL RESOURCES

see related
ECOLOGY

Gastrointestinal effects of water reuse for public park irrigation. Durand R, et al. **Am J Public Health** 1989 Dec; 79(12):1659–60

The pharmacist's role in rain-forest conservation. Wagner DT. **Am Pharm** 1989 Sep;NS29(9):39–40

Anaesthesia and the Amazon [letter] Oyston J. **Can J Anaesth** 1990 May;37(4 Pt 1):490–1

Trypanotolerance and the value of conserving livestock genetic resources. Trail JC, et al. **Genome** 1989;31(2):805–12

Hypothermia and energy conservation: a tradeoff for elderly persons? Macey SM. **Int J Aging Hum Dev** 1989; 29(2):151–61

Rediscovering respect for nature: an imperative for ecological policy and sustainable development. Hoyte HD. **Nutr Health** 1990;6(4):165–71

Medicine's stake in preserving the tropical rain forest [editorial] Bentz GD. **South Med J** 1990 May;83(5):491–2

[The plant resource of genus Fraxinus from Sichuan] Wu JL. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):451–2, 509 (Eng. Abstr.) **(Chi)**

[A preliminary report on the investigation of medicinal plant resources in the Liupan Mountains of Ningxia Hui Autonomous Region] Zhang Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb;15(2):69–70, 125 (Eng. Abstr.) **(Chi)**

[On the establishment and development of a resource of Chinese medicinal materials] Zhou R. **Chung Kuo Chung Yao Tsa Chih** 1990 Jan;15(1):3–6, 61 (Eng. Abstr.) **(Chi)**

[Studies on actinomycete flora and resources in the plateau lakes in Yunnan] Jiang CL, et al. **Wei Sheng Wu Hsueh Pao** 1989 Feb;29(1):7–14 (Eng. Abstr.) **(Chi)**

[Ecological problems and natural therapeutic resources] Adilov VB, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):1–4 **(Rus)**

LEGISLATION & JURISPRUDENCE

[Preservation, protection and control of medicinal springs with special reference to federally recognized medicinal springs] Artz J. **Off Gesundheitswes** 1989 Aug–Sep; 51(8–9):428–34 (Eng. Abstr.) **(Ger)**

TRENDS

Low level radioactive waste: an environmentalist's response. Osborne D. **Bull N Y Acad Med** 1989 Apr–May;65(4):522–6

Realism or cynicism? [letter; comment] Emson HE. **Dimens Health Serv** 1989 Sep;66(6):7 Comment on: Dimens Health Serv 1989 Jun;66(5):12–3.

[The environment and health. Of the difficulty of reconciling environmental and health standards in cultural nature] Mittelstrass J. **Wien Klin Wochenschr** 1989 Sep 15; 101(17):563–71 (27 ref.) (Eng. Abstr.) **(Ger)**

CONSERVED SEQUENCE see **BASE SEQUENCE**

CONSTANT REGION, IG see **IMMUNOGLOBULIN CONSTANT REGION**

CONSTIPATION

Constipation: endemic in the elderly? Gerontopathophysiology, evaluation, and management. Castle SC. **Med Clin North Am** 1989 Nov;73(6):1497–509 (33 ref.)

[Constipation] Benýšek L. **Zdrav Aktual** 1983;204:113–6 **(Cze)**

[Constipation in childhood] Nevoral J. **Zdrav Aktual** 1985; 205:49–54 **(Cze)**

[Diagnosis and treatment of chronic constipation] Corazziari E, et al. **Medicina (Firenze)** 1989 Oct–Dec;9(4):387–92 (6 ref.) (Eng. Abstr.) **(Ita)**

CHEMICALLY INDUCED

Oral naloxone treatment of narcotic induced constipation: dose response. Culpepper-Morgan JA, et al. **NIDA Res Monogr** 1989;95:399–400

CLASSIFICATION

[Which forms of constipation could benefit from motility-active drugs?] Müller-Lissner S. **Z Gastroenterol** 1990 Apr;28 Suppl 1:89–91; discussion 94–5 (22 ref.) **(Ger)**

COMPLICATIONS

Prevalence of digital arches in children with abdominal pain and constipation. Staiano A, et al. **J Pediatr** 1990 Sep; 117(3):435–6

Spontaneous rupture of the rectum and colon [letter; comment] Arora PK, et al. **J R Coll Surg Edinb** 1989 Oct; 34(5):285 Comment on: J R Coll Surg Edinb 1988 Dec;33(6):322–4.

[Ureteral compression. A little-known complication of constipation (letter)] Lapillonne A, et al. **Presse Med** 1989 Sep 2–9;18(27):1340 **(Fre)**

[Functional megacolon in children] Romańczuk W. **Pol Tyg Lek** 1989 Jan 23;44(4):89–91 (Eng. Abstr.) **(Pol)**

[Dyskinesia of the large intestine and hemorrhoids in pregnancy] Shekhtman MM. **Akush Ginekol (Mosk)** 1989 Aug;(8):70–4 **(Rus)**

DIAGNOSIS

Application of the colorectal laboratory in diagnosis and treatment of functional constipation. Kuijpers HC. **Dis Colon Rectum** 1990 Jan;33(1):35–9

Ultrasonography shows no abnormality of pelvic structures in women with severe idiopathic constipation. Kamm MA, et al. **Gut** 1989 Sep;30(9):1241–3

Breath methane production in children with constipation and encopresis. Fiedorek SC, et al. **J Pediatr Gastroenterol Nutr** 1990 May;10(4):473–7

[Diagnostic proceedings in obstipation] Ewe K. **Dtsch Med Wochenschr** 1989 Dec 1;114(48):1885–8 (13 ref.) **(Ger)**

[Diagnosis and therapy of constipation (letter)] Köpp W. **Dtsch Med Wochenschr** 1990 Mar 16;115(11):436–7 **(Ger)**

[Chronic constipation and its treatment] Smagin VG, et al. **Ter Arkh** 1989;61(8):110–2 (Eng. Abstr.) **(Rus)**

DIET THERAPY

Management of constipation [letter] Ardron ME, et al. **BMJ** 1990 May 26;300(6736):1400

Management of constipation. 1. High fibre diets work. Taylor R. **BMJ** 1990 Apr 21;300(6731):1063–4

Dietary fibre added to very low calorie diet reduces hunger and alleviates constipation. Astrup A, et al. **Int J Obes** 1990;14(2):105–12

[Infantile constipation and Allomin-lactulose. Treatment of infantile obstipation in infants fed with breast milk substitutes. A controlled clinical trial of 2 per cent and 4 per cent Allomin-lactulose] Hejl M, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1819-22 (Eng. Abstr.) **(Dan)**

[Role of diet in the treatment of constipation. Review of the literature] Finocchiaro C, et al. **Minerva Dietol Gastroenterol** 1989 Jul-Sep;35(3):165-70 (20 ref.) (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Cisapride accelerates colonic transit in constipated patients with colonic inertia [letter; comment] Fink S, et al. **Am J Gastroenterol** 1990 Feb;85(2):216-7 Comment on: Am J Gastroenterol 1989 Aug;84(8):882-7.

Laxative induced magnesium poisoning in a 6 week old infant. Alison LH, et al. **BMJ** 1990 Jan 13;300(6717):125

The effect of methylcellulose on symptoms of constipation. Snape WJ Jr. **Clin Ther** 1989 Sep-Oct;11(5):572-9

A calcium salt of an insoluble synthetic bulking laxative in elderly bedridden nursing home residents. Mamtani R, et al. **J Am Coll Nutr** 1989 Dec;8(6):554-6

Dietary fiber, bowel behavior, and constipation [letter] Walker AR, et al. **J Clin Gastroenterol** 1990 Aug; 12(4):478-9

Comparison of the effects of magnesium hydroxide and a bulk laxative on lipids, carbohydrates, vitamins A and E, and minerals in geriatric hospital patients in the treatment of constipation. Kinnunen O, et al. **J Int Med Res** 1989 Sep-Oct;17(5):442-54

[Lactulose] Prat F, et al. **Gastroenterol Clin Biol** 1990; 14(6-7):567-75 **(Fre)**

[Electromyography of the human colon] Müller-Lissner S. **Z Gastroenterol** 1990 Feb;28(2):121-2 **(Ger)**

EPIDEMIOLOGY

Prevalence of bowel dysfunction in multiple sclerosis. A population survey. Hinds JP, et al. **Gastroenterology** 1990 Jun;98(6):1538-42

The prevalence of hemorrhoids and chronic constipation. An epidemiologic study. Johanson JF, et al. **Gastroenterology** 1990 Feb;98(2):380-6

Clinical epidemiology of chronic constipation. Johanson JF, et al. **J Clin Gastroenterol** 1989 Oct;11(5):525-36 (57 ref.)

Treatment of complete rectal prolapse with foreign material. Leenen LP, et al. **Neth J Surg** 1989 Dec;41(6):129-31

ETIOLOGY

Demographic and dietary determinants of constipation in the US population. Sandler RS, et al. **Am J Public Health** 1990 Feb;80(2):185-9

Anal sphincter dysfunction in Parkinson's disease. Mathers SE, et al. **Arch Neurol** 1989 Oct;46(10):1061-4

Triad of anorectal stenosis, sacral anomaly and presacral mass: a remediable cause of severe constipation. Heij HA, et al. **Br J Surg** 1990 Jan;77(1):102-4

Effect of abdominal Ivalon rectopexy on bowel habit and rectal wall. Allen-Mersh TG, et al. **Dis Colon Rectum** 1990 Jul;33(7):550-3

Constipation and fecal incontinence in the elderly. Wald A. **Gastroenterol Clin North Am** 1990 Jun;19(2):405-18 (52 ref.)

Constipation with a surprising cause. Lukkarinen OA, et al. **Geriatrics** 1990 Jun;45(6):85-6

Chronic constipation: causes and management. Tremaine WJ. **Hosp Pract [Off]** 1990 Apr 30;25(4A):89-92, 95-6, 99-100

Neuronal dysplasia. Considerations for the pathogenesis and treatment of primary chronic constipation in adults. Stoss F. **Int J Colorectal Dis** 1990 May;5(2):106-12

Multiple endocrine neoplasia IIb: an unusual cause of chronic constipation. Griffiths AM, et al. **J Pediatr** 1990 Feb; 116(2):285-8

A horrifying television commercial that led to constipation. Pilapil VR. **Pediatrics** 1990 Apr;85(4):592-3

[Constipation symptoms studied by a standard questionnaire and anorectal manometry before and after promontory rectopexy (Orr-Loygue technic) in 25 female patients] Denis P, et al. **Gastroenterol Clin Biol** 1990;14(4):328-33 (Eng. Abstr.) **(Fre)**

[Do disorders of anorectal function after rectopexy reflect on the current management of rectal prolapse syndrome?] Lehur PA, et al. **Gastroenterol Clin Biol** 1990;14(4):325-7 **(Fre)**

[Chronic constipation in children. Guidelines of the Constipation in Children Study Group of the Society of Pediatric Gastroenterology and Nutrition] Grosse KP, et al. **Monatsschr Kinderheilkd** 1990 Apr;138(4):231-3 **(Ger)**

[The spastic pelvic floor syndrome] Bielefeldt K, et al. **ROFO** 1990 Jan;152(1):105-6 **(Ger)**

[Proctologic forms of constipation] Müller-Lissner S. **Z Gastroenterol [Verh]** 1990 Apr;25:127-8 **(Ger)**

[Anatomical causes of functional failures after surgery of anorectal malformations] Smirnov AN, et al. **Vestn Khir** 1990 Feb;144(2):78-81 (Eng. Abstr.) **(Rus)**

METABOLISM

Serotonin and 5-hydroxyindoleacetic acid are increased in the sigmoid colon in severe idiopathic constipation. Lincoln J, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1219-25

Vasoactive intestinal polypeptide levels in sigmoid colon in idiopathic constipation and diverticular disease. Milner P, et al. **Gastroenterology** 1990 Sep;99(3):666-75

Na+-dependent bile acid transport in the ileum: the balance between diarrhea and constipation. van Tilburg AJ, et al. **Gastroenterology** 1990 Jan;98(1):25-32

NURSING

Gentler bowel fitness with fiber. Brown MK, et al. **Geriatr Nurs (New York)** 1990 Jan-Feb;11(1):26-7

PATHOLOGY

[Variability of clinical symptoms in neuronal intestinal dysplasia] Bussmann H, et al. **Monatsschr Kinderheilkd** 1990 May;138(5):284-7 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Slow transit of the colon associated with severe constipation after the Ripstein operation. A clinical and physiologic study. Dolk A, et al. **Dis Colon Rectum** 1990 Sep; 33(9):786-90

Rectal mucosal electrosensory testing--evidence for a rectal sensory neuropathy in idiopathic constipation. Kamm MA, et al. **Dis Colon Rectum** 1990 May;33(5):419-23

Postprandial colonic transit and motor activity in chronic constipation. Bazzocchi G, et al. **Gastroenterology** 1990 Mar;98(3):686-93

Anorectal manometry in irritable bowel syndrome: differences between diarrhoea and constipation predominant subjects. Prior A, et al. **Gut** 1990 Apr; 31(4):458-62

Constipation and fecal incontinence and motility disturbances of the gut. **Prog Pediatr Surg** 1989;24:1-231

Continence and reflex pressure profile after surgery to correct the imperforate anus. Ishihara M, et al. **Prog Pediatr Surg** 1989;24:86-96

Management of defecation in spina bifida. Maie M, et al. **Prog Pediatr Surg** 1989;24:97-104

[Methods of functional exploration of chronic idiopathic constipation in adults] Chaussade S, et al. **Gastroenterol Clin Biol** 1990;14(2):163-70 (81 ref.) **(Fre)**

[Apropos of the article by M. Veyrac and colleagues (letter)] Chaussade S, et al. **Gastroenterol Clin Biol** 1989 Aug-Sep; 13(8-9):749-50 **(Fre)**

[Anorectal manometry--indications and value] Eckardt VF. **Z Gastroenterol [Verh]** 1990 Apr;25:120-2 (18 ref.) **(Ger)**

[Defecometry: determination of objective parameters of defecation] Lestár B, et al. **Orv Hetil** 1990 Apr 14; 131(15):797-8, 801-2 (28 ref.) (Eng. Abstr.) **(Hun)**

PREVENTION & CONTROL

[Dietary fiber added to a very-low caloric diet reduces hunger and alleviates constipation] Quaade F, et al. **Ugeskr Laeger** 1990 Jan 8;152(2):95-8 (Eng. Abstr.) **(Dan)**

[Bulk-forming agents as laxatives in geriatric patients] Meier P, et al. **Schweiz Med Wochenschr** 1990 Mar 3;120(9):314-7 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Frequency of constipation in major depression: relationship to other clinical variables. Garvey M, et al. **Psychosomatics** 1990 Spring;31(2):204-6

RADIOGRAPHY

The relationship between digital rectal examination and abdominal radiographs in elderly patients. Smith RG, et al. **Age Ageing** 1990 Mar;19(2):142-3

The erroneous use by an accident and emergency department of plain abdominal radiographs in the diagnosis of constipation. Bewley A, et al. **Arch Emerg Med** 1989 Dec; 6(4):257-8

Contributions of evacuation proctography and anorectal manometry to evaluation of adults with constipation and defecatory difficulty. Wald A, et al. **Dig Dis Sci** 1990 Apr; 35(4):481-7

Role of proctography in severe constipation. Infantino A, et al. **Dis Colon Rectum** 1990 Aug;33(8):707-12

Anorectal function in patients with defecation disorders and asymptomatic subjects: evaluation with defecography. Goei R. **Radiology** 1990 Jan;174(1):121-3

Caution in upper gastrointestinal X-ray study in constipated parkinsonian patients [letter] Umeki S. **South Med J** 1989 Dec;82(12):1589

RADIONUCLIDE IMAGING

Colon transit scintigraphy in health and constipation using oral iodine-131-cellulose. McLean RG, et al. **J Nucl Med** 1990 Jun;31(6):985-9

SURGERY

Surgical treatment for refractory constipation--more hard data about hard stools? Wald A. **Am J Gastroenterol** 1990 Jun;85(6):759-60

Constipation: another indication for restorative proctocolectomy. Hosie KB, et al. **Br J Surg** 1990 Jul; 77(7):801-2

Long term results of anorectal myectomy for chronic constipation. Pinho M, et al. **Br J Surg** 1989 Nov; 76(11):1163-4

Long-term results of anorectal myectomy for chronic constipation. Pinho M, et al. **Dis Colon Rectum** 1990 Sep; 33(9):795-7

[Puborectalis syndrome: a cause of obstinate constipation] Yu DH. **Chung Hua Wai Ko Tsa Chih** 1989 May; 27(5):267-8, 316 (Eng. Abstr.) **(Chi)**

[Surgical treatment of severe constipation] Christiansen J. **Ugeskr Laeger** 1989 Oct 16;151(42):2706-8 (26 ref.) (Eng. Abstr.) **(Dan)**

[The role of colorectal resection in severe constipation after promontory rectopexy] Tenière P, et al. **Ann Chir** 1990; 44(3):207-11 (Eng. Abstr.) **(Fre)**

[Surgical therapy of severe idiopathic constipation] Wehrli H, et al. **Schweiz Med Wochenschr** 1990 Apr 7; 120(14):496-8 (15 ref.) (Eng. Abstr.) **(Ger)**

[Rectal myectomy in the treatment of chronic constipation in children] Krivchenia DIu, et al. **Klin Khir** 1990;(6):24-6 (Eng. Abstr.) **(Rus)**

[Postoperative rehabilitation of children with Hirschsprung disease] Leniushkin AI, et al. **Vestn Khir** 1989 Aug; 144(8):87-91 (Eng. Abstr.) **(Rus)**

THERAPY

Colonic lavage solution (polyethylene glycol electrolyte lavage solution) as a treatment for chronic constipation: a double-blind, placebo-controlled study. Andorsky RI, et al. **Am J Gastroenterol** 1990 Mar;85(3):261-5

Severe magnesium toxicity after magnesium sulphate enema in a chronically constipated child. Ashton MR, et al. **BMJ** 1990 Feb 24;300(6723):541

Constipation in childhood. Clayden GS. **BMJ** 1989 Nov 4; 299(6708):1116-7 (9 ref.)

Management of constipation. 2. When fibre fails. Spiller R. **BMJ** 1990 Apr 21;300(6731):1064-5; discussion 1063

Application of the colorectal laboratory in diagnosis and treatment of functional constipation. Kuijpers HC. **Dis Colon Rectum** 1990 Jan;33(1):35-9

Randomized controlled trial of Cassia alata Linn. for constipation. Thamlikitkul V, et al. **J Med Assoc Thai** 1990 Apr;73(4):217-22

Modulation of abnormal defecation dynamics by biofeedback treatment in chronically constipated children with encopresis. Loening-Baucke V. **J Pediatr** 1990 Feb; 116(2):214-22

Clinical observations on 50 cases of obstipation treated with acupuncture. Shi XM. **J Tradit Chin Med** 1982 Jun;2(2):162

Chronic constipation in adults. How far should evaluation and treatment go? Marshall JB. **Postgrad Med** 1990 Sep 1;88(3):49-51, 54, 57-9, 63 (21 ref.)

[Therapy of obstipation] Ewe K. **Dtsch Med Wochenschr** 1989 Dec 8;114(49):1924-6 (17 ref.) **(Ger)**

[The conservative therapy of chronic colostasis] Iaremchuk AIa, et al. **Vrach Delo** 1989 Nov;(11):28-31 (Eng. Abstr.) **(Rus)**

VETERINARY

Constipation: pathophysiology, diagnostic approach, and treatment. Dimski DS. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):247-54 (35 ref.)

CONSTITUTION AND BYLAWS see under **ORGANIZATION AND ADMINISTRATION**

CONSTRICTION, PATHOLOGIC

EPIDEMIOLOGY

[Chronology and incidence of restenosis after coronary angioplasty. Comparison of patients with stable and unstable angina] Luijten HE, et al. **Arch Mal Coeur** 1990 Mar;83(3):305-12 (Eng. Abstr.) **(Fre)**

ETIOLOGY

[Iatrogenic coronary stenosis after angioplasty] Quiret JC, et al. **Arch Mal Coeur** 1990 Mar;83(3):385-91 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Hemodynamic changes with arterial stenosis experimentally created using the sliding calipers method. Yamashita H, et al. **Jpn J Surg** 1990 Jan;20(1):83-8

THERAPY

Instrument for dilatation of stenotic colorectal anastomosis. Duce AM, et al. **Dis Colon Rectum** 1990 Feb;33(2):160-1

CONSTRICTIVE PERICARDITIS see **PERICARDITIS, CONSTRICTIVE**

CONSTRUCTION MATERIALS

Surface characteristics of asbestos fibers released from asbestos- cement products. Helsen JA, et al. **Am Ind Hyg Assoc J** 1989 Dec;50(12):655-63

Asbestos-dust exposures at various levels and mortality. Enterline PE, et al. **Arch Environ Health** 1967 Aug; 15(2):181-6

Practical high-density shielding materials for medical linear accelerator rooms. Barish RJ. **Health Phys** 1990 Jan;

58(1):37–9
Alpha 1–antitrypsin and lung function in cement workers. Gomzi M, et al. **Med Lav** 1989 Jul–Aug;80(4):301–6
Chamber testing of organic emission from building and furnishing materials. Colombo A, et al. **Sci Total Environ** 1990 Feb;91:237–49
[The attractiveness of various heat insulation substrates and their effect on the reproductive rate of the German cockroach and recommendations for preventing cockroaches] Klunker R. **Z Gesamte Hyg** 1989 Sep; 35(9):527–30 (Eng. Abstr.) **(Ger)**
[Morphologic studies of asbestos–cement surfaces] Krause J, et al. **Z Gesamte Hyg** 1989 Jun;35(6):323–5 (Eng. Abstr.) **(Ger)**
[Condition of the oral mucosa in cement plant workers] Strużak–Wysokińska M, et al. **Wiad Lek** 1989 May 15; 42(10):641–4 (Eng. Abstr.) **(Pol)**
[Use of mycelial waste from the drug industry] Ponomareva LV, et al. **Antibiot Khimioter** 1990 Feb;35(2):43–6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Self–leveling mortar as a possible cause of symptoms associated with "sick building syndrome". Lundholm M, et al. **Arch Environ Health** 1990 May–Jun;45(3):135–40
Investigations into the effect on rats of volatile organic compounds released from the set of building and finishing materials. Wiglusz R, et al. **Bull Inst Marit Trop Med Gdynia** 1988;39(3–4):205–14
The nickel content of moulded bricks as building material. Hegyi E, et al. **Contact Dermatitis** 1989 Jul;21(1):63
Occupational dermatoses and allergy to metals in Polish construction workers manufacturing prefabricated building units. Kieć–Swierczyńska M. **Contact Dermatitis** 1990 Jul; 23(1):27–32
Skin burns due to transit–mixed Portland cement. Tosti A, et al. **Contact Dermatitis** 1989 Jul;21(1):58
Neuropsychiatric disorders among solvent–exposed workers. First results from a Dutch case–control study. van Vliet C, et al. **Int Arch Occup Environ Health** 1990;62(2):127–32
Long–term exposure to cement dust and later hospitalization due to respiratory disease. Vestbo J, et al. **Int Arch Occup Environ Health** 1990;62(3):217–20
Lead poisoning during home renovation [letter; comment] Sedlis MM. **N Y State J Med** 1990 Apr;90(4):215 Comment on: N Y State J Med 1989 Dec;89(12):679–80.
Serious unintentional injuries associated with architectural glass. Johnston SE, et al. **N Z Med J** 1990 Mar 28; 103(886):117–9
[Evaluation of occupational risk for workers producing polyvinyl chloride resin pipes, profiles and fixtures] Nosko M, et al. **Probl Khig** 1989;14:103–8 (Eng. Abstr.) **(Bul)**
[The risk of silicosis from building site dust] Brendstrup T, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1882–6 (30 ref.) (Eng. Abstr.) **(Dan)**
[Corneal sensitivity in workers in contact with petroleum products] Orzel H, et al. **Klin Oczna** 1989 Feb–Mar; 91(2–3):45–6 (Eng. Abstr.) **(Pol)**
[Occupational skin diseases and hypersensitivity to metals, especially chromium, cobalt and nickel among construction workers] Kieć–Swierczyńska M. **Med Pr** 1989;40(4):265–8 **(Pol)**
[Skin diseases and sensitization to metals in construction workers engaged in the production of pre–cast cellular concrete slabs] Kieć–Swierczyńska M, et al. **Med Pr** 1989; 40(3):192–8 (Eng. Abstr.) **(Pol)**
[Biological effects of artificial mineral fibers] Woźniak H. **Med Pr** 1989;40(4):238–45 (52 ref.) (Eng. Abstr.) **(Pol)**
[Waste volatile ashes, a new source of hypersensitivity to metals] Kieć–Swierczyńska M. **Przegl Dermatol** 1989 Sep–Dec;76(5–6):410–5 (Eng. Abstr.) **(Pol)**
[Hygienic assessment of sealing and waterproofing mastics used in construction] Petrusha VG, et al. **Gig Sanit** 1990 Feb;(2):37–9 **(Rus)**
[The role of construction materials as secondary sources of the air pollution of manufacturing premises with dicyclopentadiene] Mironova NP, et al. **Gig Tr Prof Zabol** 1989;(12):37–9 (Eng. Abstr.) **(Rus)**
[Interstitial pulmonary disease in plaster workers] Pérez Arellano JL, et al. **Rev Clin Esp** 1989 Jul–Aug; 185(3):136–40 (Eng. Abstr.) **(Spa)**

STANDARDS

[Effect of carbohydrates on possible utilization of wastes from antibiotic–manufacturing plants in the construction industry] Tarakanov OV, et al. **Antibiot Khimioter** 1989 Aug;34(8):606–9 (Eng. Abstr.) **(Rus)**
[Dust factors in the processing of asbestos–containing components] Iatsenko AS, et al. **Gig Tr Prof Zabol** 1989; (7):51–2 **(Rus)**

TOXICITY

[Hygienic aspects of the use of liquid wastes from oil–refining and chemical plants] Tikhomirov IuP, et al. **Gig Sanit** 1989 Aug;(8):13–5 (Eng. Abstr.) **(Rus)**

CONSULTANTS

Management consultant review of three departments of pharmacy to identify cost–reduction opportunities. Scott BE, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1779–83
Effect of psychiatric liaison nurse specialist consultation on the care of medical–surgical patients with sitters. Talley S, et al. **Arch Psychiatr Nurs** 1990 Apr;4(2):114–23
A revised consultant contract [editorial] Havard J. **BMJ** 1990 May 12;300(6734):1221–2
Are we achieving a balance: time to reconsider? [editorial] Angela S, et al. **Br J Hosp Med** 1989 Nov;42(5):354
The shortage of consultant posts [letter] [see comments] **Br J Oral Maxillofac Surg** 1989 Oct;27(5):435–7 Comment in: Br J Oral Maxillofac Surg 1990 Feb;28(1):67.
The no–code patient and the infectious diseases consultant. Kaye JM, et al. **Bull N Y Acad Med** 1990 May–Jun; 66(3):201–10
Competencies required for the practice of geriatric medicine as a consultant physician [see comments] Fox RA, et al. **Can Med Assoc J** 1989 Nov 15;141(10):1045–8 Comment in: Can Med Assoc J 1989 Nov 15;141(10):1039.
Transferring out of nursing and into information services [letter] Woolery L. **Comput Nurs** 1990 Jul–Aug;8(4):138–9
Consultant eases hospitals' staff relations conflicts. Eubanks P. **Hospitals** 1990 Mar 5;64(5):46–7
HBE offers economical building alternatives. Souhrada L. **Hospitals** 1990 Oct 5;64(19):70
HMO liable for the negligence of a non–HMO consulting physician. Rymer TA. **Indiana Med** 1990 Feb;83(2):130–1
JONA's Semiannual Directory of Consultants to Nursing Administration. **J Nurs Adm** 1990 Jul–Aug;20(7–8):53–104
JONA's semiannual directory of consultants to nursing administration. **J Nurs Adm** 1990 Feb;20(2):43–81
And the beat goes on. Carter MA. **J Prof Nurs** 1989 Nov–Dec;5(6):299
Legal and ethical issues. Law and ethics consultation. Kjervik DK. **J Prof Nurs** 1990 Jul–Aug;6(4):193, 246
Psychiatric nursing consultation: a different choice for nursing homes. Smith M, et al. **J Psychosoc Nurs Ment Health Serv** 1990 Mar;28(3):22–8
A Scottish lament [editorial] [see comments] **Lancet** 1990 May 5;335(8697):1066–7 Comment in: Lancet 1990 May 26;335(8700):1284.
NHS reforms: doctor's legal challenge fails [news] Brahams D. **Lancet** 1990 Mar 3;335(8688):528–9
Illegal acts of Scottish Health Minister [letter; comment] [see comments] Crawford JW. **Lancet** 1990 Mar 10; 335(8689):609 Comment on: Lancet 1990 Feb 17;335(8686):414. Comment in: Lancet 1990 Apr 14;335(8694):917.
Illegal acts of Scottish Health Minister [letter] [see comments] Hunter D. **Lancet** 1990 Feb 17;335(8686):414 Comment in: Lancet 1990 Mar 10;335(8689):609.
The relief of communication. Pickering WG. **Lancet** 1989 Oct 14;2(8668):911
Informing patients [letter] Rylance G. **Lancet** 1989 Oct 14; 2(8668):922
The consultation of traditional healers by Malay patients. Salleh MR. **Med J Malaysia** 1989 Mar;44(1):3–13
Conduct unbecoming a consultant [letter] Smith L. **N Z Med J** 1990 Mar 14;103(885):108
Selection committees for consultant posts in the National Health Service. Cohen BJ. **Postgrad Med J** 1990 Jan; 66(771):44–6
Nontraditional opportunities for dairy practitioners. Johnson AP. **Vet Clin North Am Food Anim Pract** 1989 Nov; 5(3):575–81
[A report on the central hospital in Rogaland. An example of consultant aid in health care] Myhre HO. **Tidsskr Nor Laegeforen** 1989 Sep 10;109(25):2581–2 **(Nor)**

STATISTICS & NUMERICAL DATA

Survey: legal and strategic consulting most in demand. Anderson HJ. **Hospitals** 1990 Jul 5;64(13):22–7

CONSULTATION see **REFERRAL AND CONSULTATION**

CONSUMER ADVOCACY

The worker's place in enforcing OSHA. Mazzocchi A. **Ann N Y Acad Sci** 1989;572:155–6; discussion 163–5
The right to know in the workplace. The moral dimension. Millar JD. **Ann N Y Acad Sci** 1989;572:113–21; disc. 121–3, 142–3
Learning from our consumers. Koenigsknecht RA. **ASHA** 1990 Jun–Jul;32(6–7):33–4
Public reaction to toxic waste contamination: analysis of a social movement. Masterson–Allen S, et al. **Int J Health Serv** 1990;20(3):485–500
Ncab wants federal cigarette excise tax increased [news] **J Natl Cancer Inst** 1989 Nov 15;81(22):1693
Sharing visions and voices: oral health advocacy in the future. Niessen LC. **J Public Health Dent** 1990 Spring; 50(3):195–8
An exchange of letters. Between Dr. Linda C. Niessen, president, American Association of Public Health Dentistry, and Dr. Arthur A. Dugoni, president, American Dental Association [letter] Niessen LC. **J Public Health Dent** 1989 Fall;49(4):189–91
Tobacco foes attack ads that target women, minorities, teens, and the poor [news] Cotton P. **JAMA** 1990 Sep 26; 264(12):1505–6
Consumer advocacy, elective surgery, and the "golden era of medicine". Reiter RC, et al. **Obstet Gynecol** 1989 Nov; 74(5):815–7
Activism for medical geographers: American, British and Canadian viewpoints. Greenberg MR, et al. **Soc Sci Med** 1990;30(1):173–7
Advocacy for healthy births. Williams LM, et al. **Women Health** 1989;15(3):101–5
[Problems in information relationships between insurance providers and insurance subscribers (editorial)] Müller W. **Versicherungsmedizin** 1990 Jun 1;42(3):69–70 **(Ger)**

LEGISLATION & JURISPRUDENCE

Empowering people with physical disabilities through advocacy skills training. Balcazar FE, et al. **Am J Community Psychol** 1990 Apr;18(2):281–96
AMA enjoined from boycotting chiropractors. Berg RN. **J Med Assoc Ga** 1990 Jun;79(6):391–3

CONSUMER INVOLVEMENT see **CONSUMER PARTICIPATION**

CONSUMER ORGANIZATIONS

STATISTICS & NUMERICAL DATA

Organizational structure and client advocacy: lessons from the 1980s. Reisch M. **Soc Work** 1990 Jan;35(1):73–4

CONSUMER PARTICIPATION

see related

ATTITUDE TO HEALTH

How black and Latino community organizations respond to the AIDS epidemic: a case study in one New York City neighborhood. Freudenberg N, et al. **AIDS Educ Prev** 1989 Spring;1(1):12–21
The Community Research Initiative of New York [news] Holzemer SP, et al. **AIDS Educ Prev** 1989 Winter; 1(4):346–7
An RBRVS dissent [editorial] Conner SL. **Ala Med** 1990 Jan;59(7):3–4
A public health response to cancer clusters in Missouri. Devier JR, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S23–31
Counterpoint from a cluster buster. Neutra RR. **Am J Epidemiol** 1990 Jul;132(1):1–8
Responding to community–identified suicide clusters: statistical verification of the cluster is not the primary issue. O'Carroll PW, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S196–202
Democratization of health care: challenge for nursing. Watts RJ. **ANS** 1990 Jan;12(2):37–46
Brief didactic treatment for alcohol and drug–related problems: an approach based on client choice. Sanchez–Craig M. **Br J Addict** 1990 Feb;85(2):169–77
AIDS: the community–based response. Clausson NI. **Can J Public Health** 1989 May–Jun;80 Suppl 1:S18–20 **(Eng, Fre)**
Assessing environmental health: some problems and strategies. Auer J. **Community Health Stud** 1989;13(4):441–7
Developing a mandate for change: planning as a political process. Broadhead P, et al. **Community Health Stud** 1989; 13(3):243–57
Improving the quality of community health surveys and community health promotion campaigns by feedback from the community: experience from the Wallsend community and health project. Clarke RM, et al. **Community Health Stud** 1990;14(1):27–34
Community empowerment: reflections on the Australian situation. Labonte R. **Community Health Stud** 1989; 13(3):347–9
Preventing alcohol problems: local action and licensing law—a case study. Lockwood A. **Community Health Stud** 1989;13(4):456–62
Practical solutions. Midgley M. **Hastings Cent Rep** 1989 Nov–Dec;19(6):44–5
Civil disobedience in time of AIDS. Novick A. **Hastings Cent Rep** 1989 Nov–Dec;19(6):35–6
Grassroots opposition to animal exploitation. Siegel S. **Hastings Cent Rep** 1989 Nov–Dec;19(6):39–41
Promoting health at the grass roots. Couto RA. **Health Aff (Millwood)** 1990 Summer;9(2):144–51
Sharpening the focus on health system reform. Jeppson DH. **Health Aff (Millwood)** 1990 Spring;9(1):114–6
Maintaining employee participation in workplace health promotion programs. Lovato CY, et al. **Health Educ Q** 1990 Spring;17(1):73–88 (49 ref.)
The patient as expert [letter; comment] Blaska B. **Hosp Community Psychiatry** 1990 May;41(5):564–5 Comment on: Hosp Community Psychiatry 1989 Nov;40(11):1109.
Executives learn (sometimes the hard way) how to handle public referendums. Hudson T. **Hospitals** 1990 Jan 5; 64(1):44–7
Community participation in health programmes. Dyal Chand A. **Indian Pediatr** 1989 Nov;26(11):1109–14
Use of focus groups to explore consumers' preferences for content and graphic design of nutrition publications. Shepherd SK, et al. **J Am Diet Assoc** 1989 Nov; 89(11):1612–4
Community–based health promotion: a survey of churches, labor unions, supermarkets, and restaurants. Elder JP, et al. **J Community Health** 1989 Fall;14(3):159–68

Identification of community leadership in the development of public health education programs. Michielutte R, et al. **J Community Health** 1990 Feb;15(1):59–68

The assessment of parent–led prevention programs: a national descriptive study. Klitzner M, et al. **J Drug Educ** 1990; 20(2):111–25

Regulatory policy and information deficiencies in the market for mental health services. Frank RG. **J Health Polit Policy Law** 1989 Fall;14(3):477–501 (59 ref.)

AIDS lobby earns respect from cancer leaders [news] McIntosh H. **J Natl Cancer Inst** 1990 May 2;82(9):730–2

Snowballing hypothermia alert system or rural noseyness? [letter] Barber SG, et al. **J R Coll Gen Pract** 1989 Dec; 39(329):518

School nurses: saving an endangered species. Whited F, et al. **J Sch Health** 1989 Dec;59(10):446–7

Rationing and other perils for providers and consumers. Silver GA. **Lancet** 1989 Oct 7;2(8667):857–8

Minister of health. Carlson GE. **MCN** 1989 Sep–Oct; 14(5):305–6

A buddy system to improve prenatal care. Helton AS. **MCN** 1990 Jul–Aug;15(4):234–7

Report on the Public Participation Hearings, National Cancer Advisory Board. **Oncology (Williston Park)** 1989 Mar; 3(3):121–5, 129

Taxpayers on the ward. Quality improvement through the Citizen Monitoring Program. Uttermohlen DM. **Psychiatr Clin North Am** 1990 Mar;13(1):49–59

International politics and primary health care in Costa Rica. Morgan LM. **Soc Sci Med** 1990;30(2):211–9

Community participation in national family planning programs: some organizational issues. Askew I, et al. **Stud Fam Plann** 1990 May–Jun;21(3):127–42

Community participation in the control of tsetse flies. Large scale trials using the pyramid trap in the Congo. Gouteux JP, et al. **Trop Med Parasitol** 1990 Mar;41(1):49–55

Participatory nursing research. A promising methodology in Third World countries. Kirkpatrick SM. **West J Nurs Res** 1990 Jun;12(3):282–92

Know your community [letter] Aslam A, et al. **World Health Forum** 1989;10(2):239–40

Towards the measurement of community participation. Bichmann W, et al. **World Health Forum** 1989; 10(3–4):467–72

Obstacles to community participation in health care [letter] Chaturvedi RM, et al. **World Health Forum** 1989; 10(3–4):434–5

Conflict in health systems. Deeny J. **World Health Forum** 1989;10(3–4):403–7

Community–based rehabilitation for disabled children in rural Guyana [letter] O'Toole B. **World Health Forum** 1989; 10(2):238–9

More power to the people. Reilly Q. **World Health Forum** 1989;10(3–4):473–6

Towards community involvement in health development [letter] Vatsyayann S, et al. **World Health Forum** 1989; 10(3–4):431–2

Planning services together with disabled people: the importance of a common language. Finkelstein V. **World Health Stat Q** 1989;42(3):177–9

[An experience of intersector and community action in the framework of health education at O.N.E (Office of Childbirth and Infancy)] Misson G, et al. **Arch Belg** 1988; 46(11–12):496–500 **(Fre)**

[Community participation in health promotion. Introductory address] Sabouraud. **Arch Belg** 1988;46(11–12):465–75 **(Fre)**

[Neighborhood areas for urban facilities] Sato H, et al. **Ann Physiol Anthropol** 1989 Apr;8(2):89–93 **(Jpa)**

[Consumer participation in health programs] Dias JC. **Rev Bras Malariol Doencas Trop** 1986;38:103–10 (Eng. Abstr.) **(Por)**

[Intestinal helminthiasis. III. A program of education and health in helminthiasis] Pedrazzani ES, et al. **Rev Saude Publica** 1989 Jun;23(3):189–95 (Eng. Abstr.) **(Por)**

ECONOMICS

The patient as consumer [editorial] Campbell AV. **Br J Gen Pract** 1990 Apr;40(333):131–2

Can multiple choice be managed to constrain health care costs? Jones SB. **Health Aff (Millwood)** 1989 Fall;8(3):51–9

The pitfalls of free enterprise health care. Williams W. **Hospitals** 1990 Jul 20;64(14):64

Multiple choice health insurance: the lessons and challenge to private insurers. Jones SB. **Inquiry** 1990 Summer; 27(2):161–6

LEGISLATION & JURISPRUDENCE

The right to know: citizen action for the protection of the environment. Ellis HM. **Public Health Rev** 1988; 16(3–4):265–71

METHODS

The use of key informant networks in assessment of community health. Gregor S, et al. **Fam Med** 1990 Mar–Apr;22(2):118–21

Participation effect from water projects on EPI. Eng E, et al. **Soc Sci Med** 1990;30(12):1349–58

PSYCHOLOGY

Product lines in a complex marketplace: matching organizational strategy to buyer behavior. Zelman WN, et al. **Health Care Manage Rev** 1990 Spring;15(2):9–14

STATISTICS & NUMERICAL DATA

Quality and provider choice: a multinomial logit–least–squares model with selectivity. Haas–Wilson D, et al. **Health Serv Res** 1990 Feb;24(6):791–809

The role of health practices in HMO selection bias: a confirmatory study. Feldman R, et al. **Inquiry** 1989 Fall; 26(3):381–7

TRENDS

Public participation in health planning agencies: promise and practice. Checkoway B. **J Health Polit Policy Law** 1982 Fall;7(3):723–33

The delivery of health care alternatives: discussion paper. Aldridge D. **J R Soc Med** 1990 Mar;83(3):179–82

CONSUMER PRICE INDEX see ECONOMICS

CONSUMER PRODUCT SAFETY

Generic drug scandals raise questions about safety. FDA reorganizes to increase surveillance, prevent fraud. Martin S. **Am Pharm** 1989 Oct;NS29(10):23–4

Type of closure prevents microbial contamination of cosmetics during consumer use. Brannan DK, et al. **Appl Environ Microbiol** 1990 May;56(5):1476–9

Post marketing surveillance of new drugs. Patient safety in the hands of GPs. Marley JE. **Aust Fam Physician** 1989 Sep;18(9):1133–5

Vaccines, cells and nucleic acids. Zuckerman AJ, et al. **Bull World Health Organ** 1990;68(2):139–41

Consequences of the Cardiac Arrhythmia Suppression Trial: calamity or clarity? [editorial] Maloney JD. **Cleve Clin J Med** 1989 Sep;56(6):649–53

Consumer product–related tooth injuries treated in hospital emergency rooms: United States, 1979–87. Bhat M, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):133–8

Consumer safe products. **Iowa Med** 1989 Oct;79(10):495–6

Pesticide monitoring results indicate food is safe [news] **J Am Vet Med Assoc** 1990 Mar 15;196(6):851

Food animal practitioners and food safety. Herrick JB. **J Am Vet Med Assoc** 1990 Mar 15;196(6):872–3

Third generation cephalosporins: safety profiles after 10 years of clinical use. Neu HC. **J Clin Pharmacol** 1990 May; 30(5):396–403 (59 ref.)

The role of experimental toxicology in safety evaluation: challenges facing the pharmaceutical industry. Kapeghian JC, et al. **Med Res Rev** 1990 Apr–Jun;10(2):271–80

Guidelines for the testing of chemicals for mutagenicity. Committee on Mutagenicity of Chemicals in Food, Consumer Products and the Environment. **Rep Health Soc Subj (Lond)** 1989;35:1–99

Increasing consumer confidence [letter] Miller DJ. **Vet Rec** 1989 Dec 9;125(24):608

[The disposable contact lens (letter)] Rutten HJ. **Ned Tijdschr Geneeskd** 1989 Oct 14;133(41):2042 **(Dut)**

[Information on the composition of chemical preparations for sale on the Belgian market] **Arch Belg** 1988; 46(7–8):389–95 **(Fre)**

LEGISLATION & JURISPRUDENCE

The pharmacist, the law, and self–testing products. Coons SJ, et al. **Am Pharm** 1989 Nov;NS29(11):35–8

Prevention of aspiration in infants and young children: federal regulations. Reilly JS. **Ann Otol Rhinol Laryngol** 1990 Apr; 99(4 Pt 1):273–6

Britain bans oral snuff. Raw M, et al. **BMJ** 1990 Jan 13; 300(6717):65–6

Devices act would cause documentation burden. Hudson T. **Hospitals** 1989 Nov 20;63(22):76

Editorial misconduct in Science. Epstein SS. **Int J Health Serv** 1990;20(2):349–52

Product liability aspects of bioengineering. Grant LJ. **J Biomed Eng** 1990 May;12(3):262–6

Liability for medical expert systems: an introduction to the legal implications. Cannataci JA. **Med Inf (Lond)** 1989 Jul–Sep;14(3):229–41

Food safety: the case for an integrated view. Miller SA. **Vet Hum Toxicol** 1990 Jun;32(3):262

[Analysis of toys: 1. Lead, cadmium and barium migration. 2. Migration of coloring agents in artificial saliva] Iliano B, et al. **Arch Belg** 1988;46(7–8):336–46 (Eng. Abstr.) **(Dut)**

STANDARDS

Aerosolised pentamidine and public health [letter] [see comments] McDiarmid MA, et al. **Lancet** 1989 Oct 7; 2(8667):863–4 Comment in: Lancet 1989 Nov 25;2(8674):1284–5.

CONSUMER SATISFACTION

How reorganizing a general medicine clinic affected residents' and patients' satisfaction. Lofgren RP, et al. **Acad Med** 1990 Sep;65(9):604–8

Generalizability of standardized patients' satisfaction ratings of their clinical encounter with fourth–year medical students. Vu NV, et al. **Acad Med** 1990 Sep;65(9 Suppl):S29–30

Alleviation of labor pain in Norway. An interview investigation in 1969 and 1986. Lind B, et al. **Acta Obstet Gynecol Scand** 1989;68(2):125–9

Ranking of needs: a new method of assessment for use with chronic psychiatric patients. Waismann LC, et al. **Acta Psychiatr Scand** 1989 Sep;80(3):260–6

An RBRVS dissent [editorial] Conner SL. **Ala Med** 1990 Jan;59(7):3–4

Impact of family physicians' cessation of obstetric care. Crump WJ, et al. **Ala Med** 1990 Jun;59(12):26, 28, 30

Outpatient pharmacy redesign to improve work flow, waiting time, and patient satisfaction. Pierce RA 2d, et al. **Am J Hosp Pharm** 1990 Feb;47(2):351–6

Determinants of family treatment choice and satisfaction in psychiatric emergencies. Morgan SL. **Am J Orthopsychiatry** 1990 Jan;60(1):96–107

Advantages and disadvantages reported by some of the better cochlear–implant patients. Tyler RS, et al. **Am J Otol** 1990 Jul;11(4):282–9

The female condom [letter] Sakondhavat C. **Am J Public Health** 1990 Apr;80(4):498

National Inuit women health concern. Sillett M. **Arctic Med Res** 1988;47 Suppl 1:102–3

Consumer opinion in quality assurance: Spanish model. Pacheco MV, et al. **Aust Clin Rev** 1989;9(2):91–7

Patients want more information about the drugs they take [letter] Cook NJ, et al. **Aust N Z J Med** 1990 Feb;20(1):104

Outpatient penetrating keratoplasty. Collie DM. **Aust N Z J Ophthalmol** 1989 Nov;17(4):373–7

Patient preferences and randomised clinical trials [letter; comment] **BMJ** 1989 Sep 9;299(6700):684–5 Comment on: BMJ 1989 Jul 29;299(6694):313–5.

Audit of terminal care in a general practice. Blyth AC. **BMJ** 1990 Apr 14;300(6730):983–6

Consultations in general practice [letter; comment] Cornwall L. **BMJ** 1989 Dec 9;299(6713):1466 Comment on: BMJ 1989 Oct 21;299(6706):1015–6.

The NHS boot. Platts RG. **BMJ** 1989 Oct 14;299(6705):932–3

Consultations in general practice: a comparison of patients' and doctors' satisfaction [see comments] Rashid A, et al. **BMJ** 1989 Oct 21;299(6706):1015–6 Comment in: BMJ 1989 Dec 9;299(6713):1466.

Patients' and general practitioners' satisfaction with information given on discharge from hospital: audit of a new information card. Sandler DA, et al. **BMJ** 1989 Dec 16;299(6714):1511–3

Surgical footwear [letter; comment] Soorikumaran S. **BMJ** 1989 Oct 14;299(6705):976 Comment on: BMJ 1989 Sep 9;299(6700):657.

The benefit of dental care to an elderly population assessed using a sociodental measure of oral handicap. Fiske J, et al. **Br Dent J** 1990 Feb 24;168(4):153–6

Desmond Greer Walker Award. Rubber dam acceptance [see comments] Gergely EJ. **Br Dent J** 1989 Oct 7;167(7):249–52 Comment in: Br Dent J 1989 Nov 11;167(9):304.

Dental services for children with mental handicaps: policy changes and parental choices [see comments] Manley MC, et al. **Br Dent J** 1989 Sep 9;167(5):163–7 Comment in: Br Dent J 1989 Oct 21;167(8):266. Comment in: Br Dent J 1990 Feb 10;168(3):93.

Relationship between earmould venting, comfort and feedback. MacKenzie K, et al. **Br J Audiol** 1989 Nov; 23(4):335–7

Subjective benefit of communication aids evaluated by postlingually deaf adults. Rihkanen H. **Br J Audiol** 1990 Jun;24(3):161–6

Group anxiety management: effectiveness, perceived helpfulness and follow–up. Cadbury S, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):245–7

Long term use of benzodiazepines: the views of patients. King MB, et al. **Br J Gen Pract** 1990 May;40(334):194–6

Computers in general practice: patients' views [letter] Tooley PJ. **Br J Gen Pract** 1990 Apr;40(333):167

A study of the experience of Glasgow women in the climacteric years. Barlow DH, et al. **Br J Obstet Gynaecol** 1989 Oct;96(10):1192–7

Mothers', midwives' and obstetricians' views on the features of obstetric care which influence satisfaction with childbirth. Drew NC, et al. **Br J Obstet Gynaecol** 1989 Sep;96(9):1084–8

Resettlement of old long–stay psychiatric patients: the use of the private sector. Perkins RE, et al. **Br J Psychiatry** 1989 Aug;155:233–8

The attitudes toward committal of patients hospitalized in a psychiatric facility for the first time. Conlon P, et al. **Can J Psychiatry** 1990 May;35(4):324–7

The patient–doctor relationship [letter; comment] Holland R. **Can Med Assoc J** 1990 Jul 15;143(2):91 Comment on: Can Med Assoc J 1990 Apr 1;142(7):758.

Comparison of parents' expectations and importance ratings for specific aspects of childbirth. Morcos FH, et al. **Can Med Assoc J** 1989 Nov 1;141(9):909–14

Physician behaviors, patient perceptions, and patient characteristics as predictors of satisfaction of hospitalized adult cancer patients. Blanchard CG, et al. **Cancer** 1990 Jan 1;65(1):186–92

Cancer patient satisfaction with care. Wiggers JH, et al. **Cancer** 1990 Aug 1;66(3):610–6

Effects of information on recently diagnosed cancer patients'

and spouses' satisfaction with care. Derdiarian AK. **Cancer Nurs** 1989 Oct;12(5):285–92

Chronic psoriasis and repeat admissions—do we do enough for our patients? [letter] Harrison PV, et al. **Clin Exp Dermatol** 1989 Sep;14(5):405

Evaluation of "your pregnancy"—a New Zealand health information booklet for pregnant women. Durham G. **Community Health Stud** 1989;13(3):281–8

The contraceptive sponge: factors in initiation and discontinuation of use. Beckman LJ, et al. **Contraception** 1989 Oct;40(4):481–96

Assessment of patients' experience of discomforts during respirator therapy. Bergbom-Engberg I, et al. **Crit Care Med** 1989 Oct;17(10):1068–72

Quo vadis, doc? [editorial] Rafal HS. **Del Med J** 1989 Oct; 61(10):568–9

Measures of psychological well-being and treatment satisfaction developed from the responses of people with tablet-treated diabetes. Bradley C, et al. **Diabetic Med** 1990 Jun;7(5):445–51

Establishing an effective residents' council. Elliott JM. **Dimens Health Serv** 1989 Sep;66(6):32–3

Development of a citric acid aerosol as a smoking cessation aid. Levin ED, et al. **Drug Alcohol Depend** 1990 Jun; 25(3):273–9

Adaptation to discomfort in personal protective devices: an example with safety helmets. Abeysekera JD, et al. **Ergonomics** 1990 Feb;33(2):137–45

Patient satisfaction with in-hospital psychiatric care. A study of a 1-year population of patients hospitalized in a sectorized care organization. Hansson L. **Eur Arch Psychiatry Neurol Sci** 1989;239(2):93–100

Long term feasibility of multiple daily injections with insulin pens in children and adolescents with diabetes. Tubiana-Rufi N, et al. **Eur J Pediatr** 1989 Nov;149(2):80–3

The unraveling of a treatment paradigm: a followup study of the Milan approach to family therapy. Mashal M, et al. **Fam Process** 1989 Dec;28(4):457–70

General practitioner minor surgery facilitated by a Fife District General Hospital. Evaluation of a pilot project. Coid DR. **Health Bull (Edinb)** 1990 May;48(3):132–6

The chief scientist reports ... the consumer's voice: learning how to listen. Jones LM. **Health Bull (Edinb)** 1989 Sep; 47(5):258–63

Family satisfaction [letter; comment] Rees C. **Hosp Community Psychiatry** 1990 Feb;41(2):201–2 Comment on: Hosp Community Psychiatry 1989 Aug;40(8):831–5.

Patient satisfaction [letter] Wellington TA, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):681

Retiring CEO: satisfy needs of customers, especially MDs. Anderson HJ. **Hospitals** 1990 Oct 5;64(19):67

Outcomes management stresses patient input. Koska MT. **Hospitals** 1989 Nov 5;63(21):32

Is there a preference for different ways of performing faecal occult blood tests? Kettner JD, et al. **Int J Colorectal Dis** 1990 May;5(2):82–6

Psychiatric day care: the users' perspective. Holloway F. **Int J Soc Psychiatry** 1989 Autumn;35(3):252–64

The geriatric market. Gaines S. **Iowa Med** 1990 Feb;80(2):88

Effects of information to patients undergoing intravenous pyelography: an intervention study. Hjelm-Karlsson K. **J Adv Nurs** 1989 Oct;14(10):853–62

College health service and the fast-food value system. Christmas WA. **J Am Coll Health** 1990 Jul;39(1):51–2

An evaluation of a community based mosquito abatement program: residents' satisfaction, economic benefits and correlates of support. Farmer FL, et al. **J Am Mosq Control Assoc** 1989 Sep;5(3):335–8

Using importance-performance analysis to assess patients' decisions to seek care in a dental school clinic. Cunningham MA, et al. **J Dent Educ** 1989 Oct;53(10):584–6

Tarsal tunnel syndrome: a review of 15 surgical procedures. Stern DS, et al. **J Foot Surg** 1989 Jul-Aug;28(4):290–4

Long distance travel by children for tonsillectomy: experience of the ORL department at Princess Alexandra Hospital (PAH), Royal Air Force, Wroughton, Swindon. Nofal F, et al. **J Laryngol Otol** 1990 May;104(5):417–8

Parental satisfaction with neonatal intensive care services. Shellenberger S, et al. **J Med Assoc Ga** 1989 Dec; 78(12):821–4

Help seeking and satisfaction with care in 641 women with eating disorders. I. Patterns of utilization, attributed change, and perceived efficacy of treatment. Yager J, et al. **J Nerv Ment Dis** 1989 Oct;177(10):632–7

Self-confidence as a critical factor in breast self-examination. Olson RL, et al. **J Obstet Gynecol Neonatal Nurs** 1989 Nov-Dec;18(6):476–81

Patient preference for waxed or unwaxed dental floss. Beaumont RH. **J Periodontol** 1990 Feb;61(2):123–5

Dental implants: a survey of patients' attitudes. Grogono AL, et al. **J Prosthet Dent** 1989 Nov;62(5):573–6

A comparison of self-assessed satisfaction among wearers of dentures, hearing aids, and eyeglasses. Smedley TC, et al. **J Prosthet Dent** 1989 Dec;62(6):654–61

Consumer satisfaction with breast screening: a pilot study. Elkind A, et al. **J Public Health Med** 1990 Feb;12(1):15–8

Patient satisfaction [letter; comment] **J R Coll Gen Pract** 1989 Oct;39(327):432–3 Comment on: J R Coll Gen Pract 1989 Jul;39(324):269–70.

Patient satisfaction [letter; comment] **J R Coll Gen Pract** 1989 Nov;39(328):479–80 Comment on: J R Coll Gen Pract 1989 Jul;39(324):269–70.

Women's experiences of general practitioner management of miscarriage. Friedman T. **J R Coll Gen Pract** 1989 Nov; 39(328):456–8

Satisfaction with the NHS: what is it and can we measure it? [editorial] [see comments] Keeble B, et al. **J R Coll Gen Pract** 1989 Jul;39(324):269–70 Comment in: J R Coll Gen Pract 1989 Oct;39(327):432–3. Comment in: J R Coll Gen Pract 1989 Nov;39(328):479–80.

Patients' satisfaction with general practitioner services: a survey by a community health council. Williamson V. **J R Coll Gen Pract** 1989 Nov;39(328):452–5

Customer weight as a variable in salespersons' response time. Pauley LL. **J Soc Psychol** 1989 Oct;129(5):713–4

Followup observations of operated male-to-female transsexuals. Stein M, et al. **J Urol** 1990 Jun;143(6):1188–92

The surgical treatment of snoring: a patient's perspective. Katsantonis GP, et al. **Laryngoscope** 1990 Feb;100(2 Pt 1):138–40

Impact of geriatric nurse practitioners on nursing-home residents' functional status, satisfaction, and discharge outcomes. Garrard J, et al. **Med Care** 1990 Mar; 28(3):271–83

Older patients' health status and satisfaction with medical care in an HMO population. Hall JA, et al. **Med Care** 1990 Mar;28(3):261–70

Patient satisfaction survey instrument for use in health maintenance organizations. Weiss BD, et al. **Med Care** 1990 May;28(5):434–45

A crisis team for the mentally ill: the effect on patients, relatives and admissions. Reynolds I, et al. **Med J Aust** 1990 Jun 18;152(12):646–52

Day surgery: a consumer survey. Read D. **N Z Med J** 1990 Aug 8;103(895):369–71

Long-term venous access with a Hickman catheter: complications and patient satisfaction. Claessen KA, et al. **Neth J Surg** 1990 Apr;42(2):47–9

Image, niceness and the illusion of quality [editorial] Kelly LS. **Nurs Outlook** 1989 Nov-Dec;37(6):259

Analysis of a progressive addition lens population. Sullivan CM, et al. **Ophthalmic Physiol Opt** 1989 Apr;9(2):163–70

Patient satisfaction in oculoplastic surgery. Putterman AM. **Ophthalmic Surg** 1990 Jan;21(1):15–21

How good are our breast reconstructions? [editorial] Goldwyn RM. **Plast Reconstr Surg** 1990 Sep;86(3):548–9

Consumer-sensitive medicine. Palmer K. **Practitioner** 1990 Jan 15;234(1481):37–9

Effects of moderating variables on product managers behavior. Lysonski S, et al. **Psychol Rep** 1990 Feb; 66(1):295–306

A comparison of disabled adults' perceived quality of life in nursing facility and home settings. Hulsman B, et al. **Public Health Nurs** 1989 Sep;6(3):141–6

Compendium of instruments measuring patient satisfaction with nursing care. McDaniel C, et al. **QRB** 1990 May; 16(5):182–8

Medicaid maternal and child health care: prepaid plans vs. private fee-for-service. Reis J. **Res Nurs Health** 1990 Jun; 13(3):163–71

Bleeding patterns and acceptability among Norplant users in Singapore. Singh K, et al. **Singapore Med J** 1989 Apr; 30(2):145–7

Housing satisfaction, preference and need among the chronically mentally disabled in Hamilton, Ontario. Elliott SJ, et al. **Soc Sci Med** 1990;30(1):95–102

Patient sociodemographic characteristics as predictors of satisfaction with medical care: a meta-analysis [published erratum appears in Soc Sci Med 1990;30(12):following 1368] Hall JA, et al. **Soc Sci Med** 1990;30(7):811–8 (26 ref.)

Is it any good? The evaluation of therapy by participants in a clinical trial. Wynne A. **Soc Sci Med** 1989; 29(11):1289–97

Assessing the acceptability of NORPLANT implants in four countries: findings from focus group research. Zimmerman M, et al. **Stud Fam Plann** 1990 Mar-Apr;21(2):92–103

Alternative health care. Fox ER. **West J Med** 1989 Dec; 151(6):679–80

Nursing organizing systems: a comparative study. Clark MF, et al. **West J Nurs Res** 1989 Dec;11(6):757–64

Nurse-patient interactive styles. Power, control, and satisfaction. Krouse HJ, et al. **West J Nurs Res** 1989 Dec; 11(6):717–25

[Liver transplantation: patients' experiences] Heyink JW, et al. **Ned Tijdschr Geneeskd** 1989 Jul 15;133(28):1414–8 (Eng. Abstr.) **(Dut)**

[The cochlear implant and its psychosocial effects in 36 patients] Eisenwort B, et al. **Folia Phoniatr (Basel)** 1990; 42(2):71–6 (Eng. Abstr.) **(Ger)**

[Psychological effects of previous treatment experiences with neuroleptics] Bossert S, et al. **Nervenarzt** 1990 May; 61(5):301–5 (Eng. Abstr.) **(Ger)**

[Historical, social and psychiatric aspects of the "querulous patient"] Möllhoff G. **Off Gesundheitswes** 1990 Mar; 52(3):123–7 (Eng. Abstr.) **(Ger)**

[The quality of life of patients with cardiac arrhythmia undergoing surgical treatment] de Carvalho TA, et al. **Arq Bras Cardiol** 1989 Sep;53(3):147–50 (Eng. Abstr.) **(Por)**

[Formation of patients' opinion regarding their satisfaction with hospital care] Ovcharov VK, et al. **Sov Zdravookhr** 1990;(5):3–6 (Eng. Abstr.) **(Rus)**

[Assessment by industrial workers of their satisfaction with medical care] Rozenfel'd LG, et al. **Sov Zdravookhr** 1990; (5):11–5 (Eng. Abstr.) **(Rus)**

[An analysis of the suggestions, statements and complaints of citizens as a study of the social effectiveness of public health] Ponomarenko VM, et al. **Vrach Delo** 1989 Jul; (7):115–7 **(Rus)**

[Evaluation of the medical care quality. Expectations of the patients and the workers of the medical units] Aguirre-Gas H. **Salud Publica Mex** 1990 Mar-Apr;32(2):170–80 (42 ref.) (Eng. Abstr.) **(Spa)**

LEGISLATION & JURISPRUDENCE

Indicators of impact of services on persons with developmental disabilities: issues concerning data-collection mandates in P.L. 100-146. Davidson PW, et al. **Ment Retard** 1989 Oct;27(5):297–304

STATISTICS & NUMERICAL DATA

Patients' preferences for appointment times. Cartwright N, et al. **BMJ** 1990 Mar 31;300(6728):848

Long distance travel for routine elective surgery: questionnaire survey of patients' attitudes. Howell GP, et al. **BMJ** 1990 May 5;300(6733):1171–3

Relationship between consonant recognition and subjective ratings of hearing aids. Kuk FK, et al. **Br J Audiol** 1990 Jun;24(3):171–7

Patients' complaints and satisfaction 3 years after complete denture treatment. Kalk W, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):27–31

Consumer satisfaction with institutional and community care. Corrigan PW. **Community Ment Health J** 1990 Apr; 26(2):151–65 (53 ref.)

Satisfaction with health systems in ten nations. Blendon RJ, et al. **Health Aff (Millwood)** 1990 Summer;9(2):185–92

The role of birthing centers in hospital marketing. Kohler DL, et al. **Health Care Manage Rev** 1990 Summer; 15(3):71–7

Follow-up of community placement of the chronic mentally ill in New South Wales. Andrews G, et al. **Hosp Community Psychiatry** 1990 Feb;41(2):184–8

What consumers want in a family practitioner. **Hospitals** 1990 Oct 5;64(19):16

Ambulatory surgery gets high marks from the elderly. Koska MT. **Hospitals** 1990 Apr 5;64(7):55

Sex of physician: patients' preferences and stereotypes. Fennema K, et al. **J Fam Pract** 1990 Apr;30(4):441–6

Malpractice: a case-control study of claimants. Miller RH, et al. **J Gen Intern Med** 1990 May-Jun;5(3):244–8

The influence of clinical variables on patients' satisfaction with complete dentures. van Waas MA. **J Prosthet Dent** 1990 Mar;63(3):307–10

The relationship between patients' satisfaction with their physicians and perceptions about interventions they desired and received. Brody DS, et al. **Med Care** 1989 Nov; 27(11):1027–35

Participation in alternative care: relationship to anxiety, depression, and hostility. Littlefield VM, et al. **Res Nurs Health** 1990 Feb;13(1):17–25

Mothers' satisfaction with the cost of children's care: the role of practice settings and actual expenses. Dutton D, et al. **Soc Sci Med** 1990;30(12):1297–311

Ability of practitioners to estimate client acceptance of single-subject evaluation procedures. Campbell JA. **Soc Work** 1990 Jan;35(1):9–14

TRENDS

Use of alternative medicine by patients attending a gastroenterology clinic [see comments] Verhoef MJ, et al. **Can Med Assoc J** 1990 Jan 15;142(2):121–5 Comment in: Can Med Assoc J 1990 Jan 15:142(2):105–6.

[Success in medicine and criticism of medicine. Modern man as the princess on the pea] Marquard O. **Gynakologe** 1989 Dec;22(6):339–42 **(Ger)**

[The future of hospitals—hospitals of the future] Westphal E. **Med Klin** 1990 Apr 15;85(4):216–9 **(Ger)**

CONSUMMATORY BEHAVIOR

Linguistic analogies and behavior: the finite-state behavioral grammar of food-hoarding in hamsters. Jones CH, et al. **Behav Brain Res** 1990 Jan 22;36(3):189–97

DRUG EFFECTS

Effect of lithium chloride-induced aversion on appetitive and consummatory behavior. Wolgin DL, et al. **Behav Neurosci** 1990 Jun;104(3):438–40

CONSUMPTION COAGULOPATHY see **DISSEMINATED INTRAVASCULAR COAGULATION**

CONTACT DERMATITIS see **DERMATITIS, CONTACT**

CONTACT INHIBITION

"Contact inhibition" of alpha-fetoprotein synthesis and junctional communication in adult mouse hepatocyte culture. Gleiberman AS, et al. **Exp Cell Res** 1989 Sep; 184(1):228–34

C17, a retrovirally immortalized neuronal cell line, inhibits the proliferation of astrocytes and astrocytoma cells by a contact-mediated mechanism. Weinstein DE, et al.

GLIA 1990;3(2):130–9
[Variation of the rate of phosphorus incorporation in cells as a function of their concentration and contact inhibition] Bladé E, et al. **Exp Cell Res** 1966 Mar;41(3):473–82 (Eng. Abstr.) (Fre)

DRUG EFFECTS

Induction by herbimycin A of contact inhibition in v-src-expressed cells. Suzukake-Tsuchiya K, et al. **J Antibiot (Tokyo)** 1989 Dec;42(12):1831–7

PHYSIOLOGY

A mycoplasmal protein influences tumour cell invasiveness and contact inhibition in vitro. Schmidhauser C, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):499–506

CONTACT LENSES

Tear buffering in contact lens wearers. Carney LG, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):75–9
Development of the gas-permeable impression-moulded scleral contact lens. A preliminary report. Lyons CJ, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:162–4
Contact lens disinfection by ultraviolet light. Dolman PJ, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):665–9
Saline for contact lens ophthalmoscopy and photocoagulation. Gass JD. **Am J Ophthalmol** 1989 Dec 15;108(6):742
A gas-permeable scleral contact lens for visual rehabilitation. Schein OD, et al. **Am J Ophthalmol** 1990 Mar 15; 109(3):318–22
A contact lens for transscleral Nd:YAG cyclophotocoagulation. Shields MB, et al. **Am J Ophthalmol** 1989 Oct 15;108(4):457–8
Comparison of transscleral neodymium:YAG cyclophotocoagulation with and without a contact lens in human autopsy eyes. Simmons RB, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):174–9
Artificial tears or lens cleaner. To K. **Am J Ophthalmol** 1989 Nov 15;108(5):610
Microbial contamination of contact lens storage cases and solutions. Wilson LA, et al. **Am J Ophthalmol** 1990 Aug 15;110(2):193–8
Interactions of benzalkonium chloride with soft and hard contact lenses. Chapman JM, et al. **Arch Ophthalmol** 1990 Feb;108(2):244–6
Contamination of contact lens storage cases. Dart J. **Br J Ophthalmol** 1990 Mar;74(3):129–30 (18 ref.)
Corneal oxygenation: blink frequency as a variable in rigid contact lens wear. Fink BA, et al. **Br J Ophthalmol** 1990 Mar;74(3):168–71
Contamination of contact lens storage cases by Acanthamoeba and bacteria. Larkin DF, et al. **Br J Ophthalmol** 1990 Mar;74(3):133–5
Retinal laser lenses: magnification, spot size, and field of view. Mainster MA, et al. **Br J Ophthalmol** 1990 Mar; 74(3):177–9
The living contact lens [editorial] Smith R. **Br J Ophthalmol** 1990 Feb;74(2):65
Hydrogen peroxide in anterior segment physiology and contact lens care: a 20th anniversary roundtable. September 17, 1989. Proceedings. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S1–68
Tear volume in relation to contact lens wear and age. Hamano T, et al. **CLAO J** 1990 Jan–Mar;16(1):57–61
A report card on hydrogen peroxide for contact lens disinfection. Holden B. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S61–4 (22 ref.)
Origin and development of hydrogen peroxide disinfection systems. Janoff LE. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S36–42
Disposable contact lenses vs. contact lens maintenance for extended wear. Josephson JE, et al. **CLAO J** 1990 Jul–Sep; 16(3):184–8
Rigid gas permeable contact lenses. Lembach RG. **CLAO J** 1990 Apr–Jun;16(2):129–34 (32 ref.)
Contact lens fitting in keratoconus. Mannis MJ, et al. **CLAO J** 1989 Oct–Dec;15(4):282–9 (73 ref.)
More on index of refraction [letter; comment] Mitchell MG. **CLAO J** 1989 Oct–Dec;15(4):240 Comment on: CLAO J 1989 Jan–Mar;15(1):8.
A study of patient compliance in a contact lens–wearing population. Sokol JL, et al. **CLAO J** 1990 Jul–Sep; 16(3):209–13
The management of presbyopia with contact lenses: a review. Stein HA. **CLAO J** 1990 Jan–Mar;16(1):33–8 (21 ref.)
Contact lens disinfection systems: 1989 [editorial] [corrected and republished article originally printed in CLAO J 1990 Jan–Mar;16(1 Suppl):S1–68] Stulting RD. **CLAO J** 1990 Apr–Jun;16(2):82–3
Rigid gas permeable lenses and patient management. Terry R, et al. **CLAO J** 1989 Oct–Dec;15(4):305–9 (27 ref.)
Eosinophil granule major basic protein in contact lenses of patients with giant papillary conjunctivitis. Trocme SD, et al. **CLAO J** 1990 Jul–Sep;16(3):219–22
Clinical evaluation of three bifocal contact lenses. Van Meter WS, et al. **CLAO J** 1990 Jul–Sep;16(3):203–7
Safety alert on homemade solutions for contact lens care. **Clin Pediatr (Phila)** 1990 Apr;29(4):233
Contact lens—challenges, controversies, and opportunities. Proceedings of a symposium. Keystone, Colorado, August 5–6, 1989. **Cornea** 1990;9 Suppl 1:S1–71
Is the quality of vision with contact lenses adequate? Not only adequate but often superior. Carney LG. **Cornea** 1990; 9 Suppl 1:S16–9; discussion S23–4 (10 ref.)
Is your office safe? Yes. Cohen EJ. **Cornea** 1990;9 Suppl 1:S41–3; discussion S47 (6 ref.)
Is your office safe? No. Farris RL. **Cornea** 1990;9 Suppl 1:S44–6; discussion S47 (7 ref.)
Perspectives on the future of contact lens wear: summary. Holden BA. **Cornea** 1990;9 Suppl 1:S69–71 (12 ref.)
Is the quality of vision with contact lenses adequate? Not in all instances. Kastl PR. **Cornea** 1990;9 Suppl 1:S20–2; discussion S23–4 (2 ref.)
Are hard lenses superior to soft? Arguments in favor of hard lenses. Key JE 2d. **Cornea** 1990;9 Suppl 1:S9–11; discussion S15 (7 ref.)
Are hard lenses superior to soft? The advantages of soft lenses. Yamane SJ. **Cornea** 1990;9 Suppl 1:S12–4; discussion S15 (1 ref.)
The pH in the precorneal tear film and under a contact lens measured with a fluorescent probe. Chen FS, et al. **Exp Eye Res** 1990 Mar;50(3):251–9
The use of contact lenses to correct aphakia in a clinical trial of cataract management. Oxford Cataract Treatment and Evaluation Team (OCTET). **Eye** 1990;4 (Pt 1):138–44
Glare and contrast sensitivity in contact lens corrected aphakia, epikeratophakia and pseudophakia. Harper RA, et al. **Eye** 1989;3 (Pt 5):562–70
The application of hard contact lenses in patients with congenital nystagmus. Golubović S, et al. **Fortschr Ophthalmol** 1989;86(5):535–9
"Present state of management of aphakia. Future of spectacles and contact lenses" [editorial] Alpar J. **Indian J Ophthalmol** 1989 Apr–Jun;37(2):54–7
Pitfalls in aphakic contact lens fitting. Dada VK, et al. **Indian J Ophthalmol** 1990 Jan–Mar;38(1):27–9
The effect of collagen shields on rabbit corneal reepithelialization after chemical debridement. Robin JB, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1294–300
33rd annual contact lens issue. **J Am Optom Assoc** 1990 Mar; 61(3):155–214
Evaluation of extended wear soft and rigid contact lens use by Army aviators. Bachman WG. **J Am Optom Assoc** 1990 Mar;61(3):203–10
Clinical findings correlated with contact angles on rigid gas permeable contact lens surfaces in vivo. Bourassa S, et al. **J Am Optom Assoc** 1989 Aug;60(8):584–90
pH consistency and stability of contact lens solutions. Demas GN. **J Am Optom Assoc** 1989 Oct;60(10):732–4
Microbiological evaluation of MiraFlow. Ghajar M, et al. **J Am Optom Assoc** 1989 Aug;60(8):592–5
An alternative gonioscopy and fundus contact lens protocol. Semes L. **J Am Optom Assoc** 1990 Aug;61(8):619–22
Rigid contact lens base curve constancy between wet and dry lens storage conditions. Snyder C, et al. **J Am Optom Assoc** 1990 Mar;61(3):184–7
Eye-irrigating lens more effective if applied seconds after accident. Poe CA. **Occup Health Saf** 1990 Jan;59(1):43, 47
The spectral transmittance of hydrogel contact lens filters. Abadi RV, et al. **Ophthalmic Physiol Opt** 1989 Oct; 9(4):360–7
Alternatives to toric contact lens fitting—for regular and irregular astigmatism. Astin CL. **Ophthalmic Physiol Opt** 1989 Jul;9(3):243–6 (20 ref.)
Contrast sensitivity with contact lens corrections for presbyopia. Collins MJ, et al. **Ophthalmic Physiol Opt** 1989 Apr;9(2):133–8
The measurement of the corneal ellipse for the contact lens practitioner. Douthwaite WA, et al. **Ophthalmic Physiol Opt** 1989 Jul;9(3):239–42
Reduced aniseikonia in axial anisometropia with contact lens correction. Winn B, et al. **Ophthalmic Physiol Opt** 1988; 8(3):341–4
The Nylon Suture Lens [letter] Schirmer KE. **Ophthalmic Surg** 1990 Apr;21(4):299
Children benefit from contact lens fitting after corneal laceration repair [letter; comment] LaRoche GR. **Ophthalmology** 1989 Nov;96(11):1679 Comment on: Ophthalmology 1989 Mar;96(3):293–8.
The effect of currently available contact lens disinfection systems on Acanthamoeba castellanii and Acanthamoeba polyphaga. Silvany RE, et al. **Ophthalmology** 1990 Mar; 97(3):286–90
Therapeutic contact lenses. Smiddy WE, et al. **Ophthalmology** 1990 Mar;97(3):291–5
Specular microscopy of hard contact lens wearers II. Yamauchi K, et al. **Ophthalmology** 1989 Aug;96(8):1176–9
Acanthamoeba culbertsoni and contact lens disinfection systems. Connor CG, et al. **Optom Vis Sci** 1989 Oct; 66(10):690–3
Theoretical calculation of the longitudinal spherical aberration of rigid and soft contact lenses. Cox I. **Optom Vis Sci** 1990 Apr;67(4):277–82
Corneal hypoxia and hypercapnia during contact lens wear. Efron N, et al. **Optom Vis Sci** 1990 Jul;67(7):512–21
Visual function with presbyopic contact lens correction. Erickson P, et al. **Optom Vis Sci** 1990 Jan;67(1):22–8 (58 ref.)
Position statement: Cornea and Contact Lens Section. Farkas B. **Optom Vis Sci** 1990 Jul;67(7):500
Influence of palpebral aperture height on tear pump efficiency. Fink BA, et al. **Optom Vis Sci** 1990 Apr; 67(4):287–90
The Dk project: an interlaboratory comparison of Dk/L measurements. Holden BA, et al. **Optom Vis Sci** 1990 Jun; 67(6):476–81
Visual performance with aspheric rigid contact lenses. Oxenberg LD, et al. **Optom Vis Sci** 1989 Dec;66(12):818–21
Kalt, keratoconus, and the contact lens. Pearson RM. **Optom Vis Sci** 1989 Sep;66(9):643–6
Rigid lens base curve stability upon hydrogen peroxide disinfection. Piccolo MG, et al. **Optom Vis Sci** 1990 Jan; 67(1):19–21
Contact lens warning in relation to Acanthamoeba [letter] Markus MB, et al. **S Afr Med J** 1990 Sep 1;78(5):286
Visual rehabilitation of aphakic children. II. Contact lenses. Baker JD. **Surv Ophthalmol** 1990 Mar–Apr;34(5):366–71 (66 ref.)
[Comparison of the status of binocular function in corrected mononuclear aphakia and pseudophakia] Látalová O, et al. **Cesk Oftalmol** 1989 Sep;45(5):350–5 (Eng. Abstr.) (Cze)
[Current viewpoints concerning contact lenses] Urvoy M, et al. **Annee Ther Clin Ophtalmol** 1988;39:93–102; discussion 141–53 (38 ref.) (Fre)
[Possibility of the survival of free-living amoebae which cause keratitis in decontamination solutions used for the maintenance of contact lenses] Georges P, et al. **Bull Acad Natl Med** 1989 Apr;173(4):421–4; discussion 424–7 (Eng. Abstr.) (Fre)
[Refitting with disposable lenses of patients with giant papillary conjunctivitis. First results] Coursaux G, et al. **Bull Soc Ophtalmol Fr** 1989 Dec;89(12):1371–2 (Eng. Abstr.) (Fre)
[A protocol for contact lenses adaptation in aphakia and myopia in children; surveillance and follow-up] Evain B, et al. **Bull Soc Ophtalmol Fr** 1989 Feb;89(2):233–6 (Eng. Abstr.) (Fre)
[Problems in the disinfection of contact lenses] Liotet S, et al. **Bull Soc Ophtalmol Fr** 1989 Dec;89(12):1365–6, 1369–70 (Fre)
[New systems of cleaning contact lenses and the security of the wearer] Malbrel P, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1475–8 (Eng. Abstr.) (Fre)
[Endothelial function in contact lens–induced deep corneal opacities] Göbbels M, et al. **Fortschr Ophthalmol** 1989; 86(5):448–50 (Eng. Abstr.) (Ger)
[Multifocal diffraction contact lens as an indicator of subjective tolerance of a multifocal diffraction intraocular lens] Haefliger E, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):312–3 (Eng. Abstr.) (Ger)
[Argon laser treatment of filtering bleb insufficiency] Hoskins HD, et al. **Klin Monatsbl Augenheilkd** 1989 Nov; 195(5):328–9 (Eng. Abstr.) (Ger)
[New heterocentric, aplanatic surgical contact lenses for the anterior eye segment] Reis W. **Klin Monatsbl Augenheilkd** 1990 Jul;197(1):63–7 (Eng. Abstr.) (Ger)
[Contact lenses] Høvding G. **Tidsskr Nor Laegeforen** 1990 Feb 20;110(5):579–80 (Nor)
[Modified argon laser discission of secondary cataracts with the use of Abrakham's contact lens] Bakutkin VV, et al. **Oftalmol Zh** 1989;(6):378–9 (Rus)
[Contact lenses permeable to gas. Literature review] Livshiys VS, et al. **Polim Med** 1989;19(1–2):49–63 (64 ref.) (Eng. Abstr.) (Rus)
[The design characteristics of bifocal contact lenses] Nikol'skaia TN, et al. **Vestn Oftalmol** 1989 Sep–Oct; 105(5):36–40 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Clinicopathological correlation of hard contact lens related changes in tarsal conjunctiva by impression cytology. Saini JS, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):65–70
Keratopathy of the rabbit cornea following complete eyelid closure. Koch JM, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:108–14
Contact lens complications. Turturro MA, et al. **Am J Emerg Med** 1990 May;8(3):228–33 (22 ref.)
Acanthamoeba keratitis occurring with disposable contact lens wear. Ficker L, et al. **Am J Ophthalmol** 1989 Oct 15; 108(4):453
Time course of experimental Pseudomonas aeruginosa keratitis in contact lens overwear. Lawin-Brüssel CA, et al. **Arch Ophthalmol** 1990 Jul;108(7):1012–9
Development of keratoconus after contact lens wear. Patient characteristics. Macsai MS, et al. **Arch Ophthalmol** 1990 Apr;108(4):534–8
Hydrogen peroxide damage to human corneal epithelial cells in vitro. Implications for contact lens disinfection systems [see comments] Tripathi BJ, et al. **Arch Ophthalmol** 1989 Oct;107(10):1516–9 Comment in: Arch Ophthalmol 1990 Jul;108(7):913–4.
Pseudomonas aeruginosa corneal infection associated with disposable contact lens use [letter] Glastonbury J, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):451
Electric arcing and contact lenses [letter] [published erratum appears in BMJ 1990 Apr 14;300(6730):1018] Buckley RJ. **BMJ** 1990 Mar 24;300(6727):816–7
Contact lens related corneal ulcers at the Ohio State University Hospitals 1983–1987. Derick RJ, et al. **CLAO J** 1989 Oct–Dec;15(4):268–70
Swelling and deswelling of rabbit corneas in response to rigid gas permeable, hydrogel and elastomer contact lens wear.

Hideji I, et al. **CLAO J** 1989 Oct-Dec;15(4):290-7
Ulcerative keratitis and the future of contact lens wear [editorial] Minor RH. **CLAO J** 1990 Jan-Mar;16(1):8
Rigid contact lens decentration: a risk factor for corneal warpage. Wilson SE, et al. **CLAO J** 1990 Jul-Sep; 16(3):177-82
A review of relative risks associated with four types of contact lenses. Bailey CS. **Cornea** 1990;9 Suppl 1:S59-61; discussion S62-3
Is the dry eye contact lens wearer at risk? Not usually. Finnemore VM. **Cornea** 1990;9 Suppl 1:S51-3; discussion S54 (7 ref.)
Is the dry eye contact lens wearer at risk? Yes. Lemp MA. **Cornea** 1990;9 Suppl 1:S48-50; discussion S54 (10 ref.)
Ultrastructural features of contact lens-induced deep corneal neovascularization and associated stromal leukocytes. Madigan MC, et al. **Cornea** 1990 Apr;9(2):144-51
Acanthamoeba keratitis and contact lens wear: the patient is at fault. Moore MB. **Cornea** 1990;9 Suppl 1:S33-5; discussion S39-40 (8 ref.)
Microbiology of contact lens-related keratitis. Schein OD, et al. **Cornea** 1989 Dec;8(4):281-5
Ulcerative keratitis in contact lens wearers. Incidence and risk factors. Schein OD, et al. **Cornea** 1990;9 Suppl 1:S55-8; discussion S62-3
Pseudomonas keratitis and contact lens wear: the lens/eye is at fault. Stern GA. **Cornea** 1990;9 Suppl 1:S36-8; discussion S39-40 (11 ref.)
Hard contact lens-induced metabolic changes in rabbit corneas. Tsubota K, et al. **Exp Eye Res** 1989 Nov; 49(5):769-75
'Sterile' corneal infiltrates in contact lens wearers. Bates AK, et al. **Eye** 1989;3 (Pt 6):803-10
Specular microscopy of unilateral hard contact lens wearers. Dada VK, et al. **Indian J Ophthalmol** 1989 Jan-Mar; 37(1):17-9
Hazards of contact lenses used by workers. Loriot J, et al. **Int Arch Occup Environ Health** 1990;62(2):105-8 (17 ref.)
Contact lens induced severe epithelial disruption. A case report. Pinckers A, et al. **Int Ophthalmol** 1989 May; 13(3):229-32
Contact lens-induced edema in vitro. Ion transport and metabolic considerations. Huff JW. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1288-93
Hypoxic effects on corneal morphology and function. Polse KA, et al. **Invest Ophthalmol Vis Sci** 1990 Aug; 31(8):1542-54
Contact lens compliance [editorial] Bartlett JD. **J Am Optom Assoc** 1990 Mar;61(3):159-60
Contact lens fusion to corneas by welding arcs: a hoax revisited [editorial] Giroux AR, et al. **J Am Optom Assoc** 1990 Mar;61(3):162-4
Acanthamoeba keratitis in Tennessee: a growing problem in patients wearing contact lenses. Johns KJ, et al. **J Tenn Med Assoc** 1989 Nov;82(11):584-8
Contact lens related corneal ulcers. Noecker RJ, et al. **N C Med J** 1990 Jun;51(6):269-71
Meibomian gland dysfunction: some clinical, biochemical and physical observations. Ong BL, et al. **Ophthalmic Physiol Opt** 1990 Apr;10(2):144-8
Deep corneal stromal opacities in long-term contact lens wear. Remeijer L, et al. **Ophthalmology** 1990 Mar; 97(3):281-5
Topographic changes in contact lens-induced corneal warpage. Wilson SE, et al. **Ophthalmology** 1990 Jun; 97(6):734-44
Association of giant papillary conjunctivitis with seasonal allergies. Begley CG, et al. **Optom Vis Sci** 1990 Mar; 67(3):192-5
Symptomatology of HEMA contact lens wear. Brennan NA, et al. **Optom Vis Sci** 1989 Dec;66(12):834-8
Recovery from contact lens-induced edema is prolonged in the diabetic rabbit cornea. Herse PR. **Optom Vis Sci** 1990 Jun;67(6):466-70
The Glenn A. Fry Award lecture 1988: the ocular response to contact lens wear. Holden BA. **Optom Vis Sci** 1989 Nov; 66(11):717-33 (155 ref.)
Corneal endothelial response to refitting polymethyl methacrylate wearers with rigid gas-permeable lenses. McLaughlin R, et al. **Optom Vis Sci** 1990 May;67(5):346-51
Corneal pathophysiology with contact lens wear. Bruce AS, et al. **Surv Ophthalmol** 1990 Jul-Aug;35(1):25-58 (355 ref.)
Embedded hard contact lens: reports of a case. Kao CS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Mar;89(3):234-6
[Intolerance to collyria and contact lens storage solutions] Lumbroso P, et al. **Annee Ther Clin Ophtalmol** 1988; 39:103-12; discussion 141-153 **(Fre)**
[Contact lenses and their problems] Epstein D. **Fortschr Ophthalmol** 1990;87(1):90-4 (20 ref.) (Eng. Abstr.) **(Ger)**
[Acute keratitis and contamination of contact lens care systems with Bacillus cereus] van Setten GB, et al. **Klin Monatsbl Augenheilkd** 1989 Jul;195(1):28-31 (Eng. Abstr.) **(Ger)**
[The encapsulation of a contact lens] Sharun VI. **Oftalmol Zh** 1989;(6):384 **(Rus)**

HISTORY

Hundredth anniversary of August Müller's inaugural dissertation on contact lenses. Pearson RM, et al. **Surv Ophthalmol** 1989 Sep-Oct;34(2):133-41

STANDARDS

How important are lens oxygen ratings? They are one of many performance factors. Bennett ES. **Cornea** 1990;9 Suppl 1:S4-7; discussion S8 (14 ref.)
How important are lens oxygen ratings? Performance predictors for the concerned practitioner. Hill RM. **Cornea** 1990;9 Suppl 1:S1-3; discussion S8 (5 ref.)
The FDA role in contact lens development and safety. Lippman RE. **Cornea** 1990;9 Suppl 1:S64-7; discussion S68 (24 ref.)
Bifocal contact lenses [letter; comment] Josephson JE. **Optom Vis Sci** 1990 Mar;67(3):235-6 Comment on: Optom Vis Sci 1989 Aug;66(8):518-25.
Ultraviolet-absorbing spectacle lenses, contact lenses, and intraocular lenses. Pitts DG. **Optom Vis Sci** 1990 Jun; 67(6):435-40 (33 ref.)
Simultaneous vision bifocal contact lenses: a comparative assessment of the in vitro optical performance. Young G, et al. **Optom Vis Sci** 1990 May;67(5):339-45
[The disposable contact lens (letter)] Rutten HJ. **Ned Tijdschr Geneeskd** 1989 Oct 14;133(41):2042 **(Dut)**

CONTACT LENSES, EXTENDED-WEAR

Extended wear rigid gas permeable lenses used for correction of aphakia. Garcia GE, et al. **CLAO J** 1990 Jul-Sep; 16(3):195-9
Disposable contact lenses vs. contact lens maintenance for extended wear. Josephson JE, et al. **CLAO J** 1990 Jul-Sep; 16(3):184-8
Fluoroperm extended wear RGP contact lenses: II. Front toric fitting. Kastl PR, et al. **CLAO J** 1990 Jan-Mar; 16(1):53-6
Effect of silicone elastomer contact lens wear on endothelial cell morphology in aphakic eyes. Carlson KH, et al. **Cornea** 1990 Jan;9(1):45-7
Is daily wear better than extended wear? A rational approach to extended wear. Freeman MI. **Cornea** 1990;9 Suppl 1:S28-30; discussion S31-2 (8 ref.)
Perspectives on the future of contact lens wear: summary. Holden BA. **Cornea** 1990;9 Suppl 1:S69-71 (12 ref.)
Is daily wear better than extended wear? Arguments in favor of daily wear. Weissman BA, et al. **Cornea** 1990;9 Suppl 1:S25-7; discussion S31-2 (23 ref.)
Evaluation of extended wear soft and rigid contact lens use by Army aviators. Bachman WG. **J Am Optom Assoc** 1990 Mar;61(3):203-10
Legal consequences of the FDA's 7-day extended wear letter. Dister RE, et al. **J Am Optom Assoc** 1990 Mar; 61(3):212-4
Hydrogel lens wettability during overnight wear. Guillon M, et al. **Ophthalmic Physiol Opt** 1989 Oct;9(4):355-9
Bacterial adherence to extended wear soft contact lenses. Aswad MI, et al. **Ophthalmology** 1990 Mar;97(3):296-302
[Cataract surgery in children. Immediate postoperative equipment. Technical note] Hermann M, et al. **Bull Soc Ophtalmol Fr** 1989 May;89(5):711-3 **(Fre)**

ADVERSE EFFECTS

Granular epithelial keratopathy as an unusual manifestation of Pseudomonas keratitis associated with extended-wear soft contact lenses. Rosenfeld SI, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):17-22
Immunologic effects of extended-wear contact lenses. Allansmith MR. **Ann Ophthalmol** 1989 Dec;21(12):465-7, 474 (14 ref.)
Effect of lid closure on contact lens-associated Pseudomonas keratitis. Aswad MI, et al. **Arch Ophthalmol** 1989 Nov; 107(11):1667-70
Pseudomonas keratitis and extended-wear soft contact lenses [editorial] Baum J, et al. **Arch Ophthalmol** 1990 May; 108(5):663-4
Extended wear lenses [editorial] Cohen EJ. **CLAO J** 1989 Oct-Dec;15(4):238
Contact lens wear enhances adherence of Pseudomonas aeruginosa and binding of lectins to the cornea. Klotz SA, et al. **Cornea** 1990 Jul;9(3):266-70
Lens wearers risk infection [news] **Occup Health Saf** 1989 Nov;58(12):8, 10

STANDARDS

[Semi-rigid permeable contact lenses. Our experience with extended wear] Pedrotti M, et al. **Ophtalmologie** 1989 Sep-Dec;3(4):260-1 (Eng. Abstr.) **(Fre)**

CONTACT LENSES, HYDROPHILIC

Tear buffering in contact lens wearers. Carney LG, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):75-9
The interaction between hydrogel lenses and sodium fluorescein. Theoretical and practical considerations. Hardman Lea SJ, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):441-6
Use of the Megasoft Bandage Lens for treatment of complications after trabeculectomy. Blok MD, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):264-8
Adherence of Acanthamoeba castellanii cysts and trophozoites to unworn soft contact lenses. John T, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):658-64
Tono-Pen estimation of intraocular pressure through bandage contact lenses. Khan JA, et al. **Am J Ophthalmol** 1989 Oct 15;108(4):422-5
Intraocular pressure measurement with the Tono-Pen through soft contact lenses. Panek WC, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):62-5
Oxygen permeability of disposable soft contact lenses. Weissman BA, et al. **Am J Ophthalmol** 1990 Sep 15; 110(3):269-73
Long-term effects of hydrophilic contact lenses on myopia. Andreo LK. **Ann Ophthalmol** 1990 Jun;22(6):224-7, 229
Interactions of benzalkonium chloride with soft and hard contact lenses. Chapman JM, et al. **Arch Ophthalmol** 1990 Feb;108(2):244-6
Contact lenses for infant aphakia. Amaya LG, et al. **Br J Ophthalmol** 1990 Mar;74(3):150-4
The effects of ophthalmic solutions on the transmission of light through hydrogel lenses. Bergen G, et al. **CLAO J** 1990 Apr-Jun;16(2):114-6
Scanning electron microscopy of deposits remaining in soft contact lens polishing marks after cleaning. Fowler SA, et al. **CLAO J** 1990 Jul-Sep;16(3):214-8
Practical considerations in the use of hydrogen peroxide disinfection systems. Harris MG. **CLAO J** 1990 Jan-Mar; 16(1 Suppl):S53-60 (10 ref.)
Therapeutic contact lenses. Hayworth NA, et al. **CLAO J** 1990 Apr-Jun;16(2):137-42 (43 ref.)
Soft contact lens damage: a one-year study in Caracas, Venezuela. Magran BL, et al. **CLAO J** 1989 Oct-Dec; 15(4):274-8
Comparative antimicrobial efficacy of soft and rigid gas permeable contact lens solutions against Acanthamoeba. Penley CA, et al. **CLAO J** 1989 Oct-Dec;15(4):257-60
Comparative evaluation of surface deposits on high water content hydrogel contact lens polymers. Tomlinson A, et al. **CLAO J** 1990 Apr-Jun;16(2):121-7
Bacterial adherence to soft contact lenses [letter] Barza M, et al. **Cornea** 1990 Jul;9(3):273
Is daily wear better than extended wear? A rational approach to extended wear. Freeman MI. **Cornea** 1990;9 Suppl 1:S28-30; discussion S31-2 (8 ref.)
Are hard lenses superior to soft? Arguments in favor of hard lenses. Key JE 2d. **Cornea** 1990;9 Suppl 1:S9-11; discussion S15 (7 ref.)
Is daily wear better than extended wear? Arguments in favor of daily wear. Weissman BA, et al. **Cornea** 1990;9 Suppl 1:S25-7; discussion S31-2 (23 ref.)
Are hard lenses superior to soft? The advantages of soft lenses. Yamane SJ. **Cornea** 1990;9 Suppl 1:S12-4; discussion S15 (1 ref.)
Effects of soft contacts of differing thickness on corneal wound healing in rabbits. Friedlander P, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2138-47
An analysis of contact lens enzyme cleaners. Begley CG, et al. **J Am Optom Assoc** 1990 Mar;61(3):190-4
Hydration of hydrogel contact lenses during hydrogen peroxide disinfection [see comments] Bruce AS. **J Am Optom Assoc** 1989 Aug;60(8):581-2 Comment in: J Am Optom Assoc 1990 Apr;61(4):278.
Rotational characteristics and stability of soft toric lenses. Castellano CF, et al. **J Am Optom Assoc** 1990 Mar; 61(3):167-70
Hydration of soft contact lenses [letter; comment] Edwards G. **J Am Optom Assoc** 1990 Apr;61(4):278 Comment on: J Am Optom Assoc 1989 Aug;60(8):581-2.
The pH of hydrogen peroxide disinfection systems over time. Harris MG, et al. **J Am Optom Assoc** 1990 Mar;61(3):171-4
Masking of astigmatism with selected spherical soft contact lenses. Snyder C, et al. **J Am Optom Assoc** 1989 Oct; 60(10):728-31
Hysterical bitemporal hemianopia "cured" with contact lenses [letter] Fish RH, et al. **J Clin Neuro Ophthalmol** 1990 Mar;10(1):76-8
Soft contact lenses. **Med Lett Drugs Ther** 1990 Jul 27; 32(823):69-70
A critical appraisal of contact lens disinfection. Starr MB. **N Y State J Med** 1990 Jan;90(1):12-6 (19 ref.)
The bandage lens in bullous keratopathy. Andrew NC, et al. **Ophthalmic Physiol Opt** 1989 Jan;9(1):66-8
Dehydration of hydrogen contact lenses in vitro and in vivo. Efron N, et al. **Ophthalmic Physiol Opt** 1988;8(3):253-6
Apparent changes in the refractive index of hydrogel lenses [published erratum appears in Ophthalmic Physiol Opt 1989 Oct;9(4):476] Patel S. **Ophthalmic Physiol Opt** 1989 Apr; 9(2):222-5
Theoretical calculation of the longitudinal spherical aberration of rigid and soft contact lenses. Cox I. **Optom Vis Sci** 1990 Apr;67(4):277-82
The pH of over-the-counter hydrogen peroxide in soft lens disinfection systems. Harris MG, et al. **Optom Vis Sci** 1989 Dec;66(12):839-42
In-office microwave disinfection of soft contact lenses. Harris MG, et al. **Optom Vis Sci** 1990 Feb;67(2):129-32
Initial in vivo tear protein deposition on individual hydrogel contact lenses. Leahy CD, et al. **Optom Vis Sci** 1990 Jul; 67(7):504-11
Lens rotation and spherocylindrical over-refraction as predictors for soft toric lens evaluation. Myers RI, et al. **Optom Vis Sci** 1989 Sep;66(9):573-8
Disposable soft contact lenses. Driebe WT Jr. **Surv Ophthalmol** 1989 Jul-Aug;34(1):44-6 (17 ref.)
[Anisomyopia] Brunová B. **Cesk Oftalmol** 1989 Sep; 45(5):341-4 (Eng. Abstr.) **(Cze)**

[Use of contact lenses during general anesthesia] Hrazdirová V, et al. **Cesk Oftalmol** 1990 May;46(3):223–9 (Eng. Abstr.) **(Cze)**

[Correction of presbyopia with soft multivision lenses] Coursaux G, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul; 89(6–7):831–3 **(Fre)**

[Combination hydrophilic contact lenses in keratitis neuroparalytica] Leo M. **Klin Monatsbl Augenheilkd** 1990 Jan;196(1):38–9 (Eng. Abstr.) **(Ger)**

[Correction of keratoconus with soft contact lenses] Koos D, et al. **Rev Chir [Oftalmol]** 1989 Jul–Sep;33(3):217–21 (Eng. Abstr.) **(Rum)**

[The first results of the contact lens correction of aphakia in young infants] Avetisov SE, et al. **Vestn Oftalmol** 1989 Sep–Oct;105(5):27–32 (Eng. Abstr.) **(Rus)**

[The role of early contact lens correction in the rehabilitation of nursing infants with aphakia] Aznabaev MT, et al. **Vestn Oftalmol** 1989 Sep–Oct;105(5):33–6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Long–term effects of hydrophilic contact lenses on myopia. Andreo LK. **Ann Ophthalmol** 1990 Jun;22(6):224–7, 229

Infections with the therapeutic soft lens. Brown SI, et al. **Arch Ophthalmol** 1974 Apr;91(4):275–7

Acanthamoeba keratitis in a soft–contact–lens wearer. Rabinovitch J, et al. **Can J Ophthalmol** 1990 Feb;25(1):25–8

Biocompatibility of hydrogen peroxide in soft contact lens disinfection: antimicrobial activity vs. biocompatibility—the balance. Chandler JW. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S43–5

Swelling and deswelling of rabbit corneas in response to rigid gas permeable, hydrogel and elastomer contact lens wear. Hideji I, et al. **CLAO J** 1989 Oct–Dec;15(4):290–7

Immunoglobulin deposition on soft contact lenses: relationship to hydrogel structure and mode of use and giant papillary conjunctivitis. Jones B, et al. **CLAO J** 1990 Jan–Mar;16(1):43–8

Pseudomonas corneal ulcer associated with disposable soft contact lenses. Kent HD, et al. **CLAO J** 1989 Oct–Dec; 15(4):264–5

Microbial keratitis and corneal ulceration associated with therapeutic soft contact lenses. Kent HD, et al. **CLAO J** 1990 Jan–Mar;16(1):49–52

Achromobacter xylosoxidans corneal ulcer in a therapeutic soft contact lens wearer. Fiscella R, et al. **Cornea** 1989 Dec; 8(4):267–9

Is there a better "comfort drop"? Caffery BE, et al. **J Am Optom Assoc** 1990 Mar;61(3):178–82

Ulcerative keratitis among users of contact lenses [letter] **N Engl J Med** 1990 Mar 8;322(10):700–1

Disability glare and hydrogel lens wear—revisited. Applegate RA, et al. **Optom Vis Sci** 1989 Nov;66(11):756–9

Soft lens lubricants and prelens tear film stability. Golding TR, et al. **Optom Vis Sci** 1990 Jun;67(6):461–5

[Comparison of tolerance to hydrophilic contact lenses made of Hema (37% H2O) and Hema–Degma (55%, 65% H2O) in the rabbit eye. II. Changes in corneal transparency due profound degenerative processes] Cejková J, et al. **Cesk Oftalmol** 1989 Nov;45(6):408–11 (Eng. Abstr.) **(Cze)**

[Comparison of tolerance to hydrophilic contact lenses made of Hema (37% H2O) and Hema–Degma (55%, 65% H2O) in the rabbit eye. I. Changes in corneal transparency due to disturbed hydration] Cejková J, et al. **Cesk Oftalmol** 1989 Nov;45(6):401–7 (Eng. Abstr.) **(Cze)**

[Ulcerative keratitis as a complication of contact lenses] Nilsson SE. **Lakartidningen** 1990 Jun 27;87(26–27):2245–7 **(Swe)**

STANDARDS

In vivo dehydration of disposable (Acuvue) contact lenses. Brennan NA, et al. **Optom Vis Sci** 1990 Mar;67(3):201–3

[The disposable contact lens (letter)] Rosenbrand RM. **Ned Tijdschr Geneeskd** 1989 Jul 15;133(28):1424–5 **(Dut)**

CONTAGIOUS PUSTULAR DERMATITIS see **ECTHYMA, CONTAGIOUS**

CONTAINMENT OF BIOHAZARDS

Evolutionary principles and the regulation of engineered bacteria. Davis BD. **Genome** 1989;31(2):864–9 (4 ref.)

Biosafety considerations in industries with production methods based on the use of recombinant deoxyribonucleic acid. Andrup L, et al. **Scand J Work Environ Health** 1990 Apr;16(2):85–95 (46 ref.)

[Problems of laundry hygiene] Signorelli C, et al. **Ann Ig** 1989 Jan–Apr;1(1–2):81–6 (Eng. Abstr.) **(Ita)**

METHODS

AIDS and the lung. 1—AIDS, aprons, and elbow grease: preventing the nosocomial spread of human immunodeficiency virus and associated organisms. Hanson PJ, et al. **Thorax** 1989 Oct;44(10):778–83 (45 ref.)

STANDARDS

The epidemiology of HIV transmission among paid plasma donors, Mexico City, Mexico. Avila C, et al. **AIDS** 1989 Oct;3(10):631–3

Review of biosafety guidelines. Biosafety Task Force, Parenteral Drug Association. **J Parenter Sci Technol** 1989 Nov–Dec;43(6):252–8

CONTINGENT NEGATIVE VARIATION see under **ELECTROPHYSIOLOGY**

CONTINUING CARE RETIREMENT CENTERS see **HOMES FOR THE AGED**

CONTINUITY OF PATIENT CARE see under **PRIMARY HEALTH CARE**

CONTINUOUS PASSIVE MOTION THERAPY see **MOTION THERAPY, CONTINUOUS PASSIVE**

CONTOUR PERCEPTION see **FORM PERCEPTION**

CONTRACEPTION

see related
FAMILY PLANNING

The correlation between Chlamydia antigen, antibody, vaginal colonization and contraceptive method in young unmarried women. Blum M, et al. **Adv Contracept** 1990 Mar;6(1):41–5

Adolescent contraceptive use and parental notification. Demetriou E, et al. **Am J Dis Child** 1989 Oct; 143(10):1166–72

Cervical cancer: role for progesterone during pregnancy and contraception? [letter] Stendahl U, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):685–6

Analysis of menstrual records of women immunized with anti–hCG vaccines inducing antibodies partially cross–reactive with hLH. Kharat I, et al. **Contraception** 1990 Mar;41(3):293–9

Microdose intravaginal levonorgestrel contraception: a multicentre clinical trial. II. Expulsions and removals. World Health Organization. Task Force on Long–Acting Systemic Agents for Fertility Regulation. Koetsawang S, et al. **Contraception** 1990 Feb;41(2):125–41

Phase I clinical trials with three formulations of anti–human chorionic gonadotropin vaccine. Talwar GP, et al. **Contraception** 1990 Mar;41(3):301–16

Natural and induced immunological infertility. Alexander NJ. **Curr Opin Immunol** 1989 Aug;1(6):1125–30 (19 ref.)

Sexual behaviour, contraceptive practice and knowledge of reproductive biology among adolescent secondary school girls in Nairobi, Kenya. Lema VM. **East Afr Med J** 1990 Feb;67(2):86–94

The contraception/abortion issue: should we get involved? [editorial] Hollingsworth DR, et al. **Endocrinology** 1990 Oct;127(4):1559–60

Contraceptive development: why the snail's pace? Kaeser L. **Fam Plann Perspect** 1990 May–Jun;22(3):131–3

Antibody response and characteristics of antibodies in women immunized with three contraceptive vaccines inducing antibodies against human chorionic gonadotropin. Singh O, et al. **Fertil Steril** 1989 Nov;52(5):739–44

Development of antisperm contraceptive vaccine for humans: why and how? Naz R, et al. **Hum Reprod** 1990 Jul; 5(5):511–8 (77 ref.)

Alternative approaches to delivery of perinatal and neonatal care in rural communities: the experience of the Comprehensive Labour Welfare Scheme of UPASI. Rahmathullah V. **Indian Pediatr** 1989 Nov;26(11):1106–8

Birth control vaccines and immunological approaches to the therapy of noninfectious diseases. Stevens VC. **Infect Dis Clin North Am** 1990 Jun;4(2):343–54

Purification of an acrosomal antigen recognized by a monoclonal antibody and antifertility effects of isoimmune serum [published erratum appears in Int J Androl 1990 Apr;13(2):168] Liu MS, et al. **Int J Androl** 1989 Dec; 12(6):451–63

Induction of infertility in female rats after active immunization with 24 kD antigens from rat testes. Shaha C, et al. **Int J Androl** 1990 Feb;13(1):17–25

Maximizing the clinical benefits of steroidal contraception: an international outlook. Proceedings of a symposium. New York City, October 22, 1988, and Rio de Janeiro, October 26, 1988. **Int J Fertil** 1989;34 Suppl:1–98

Family planning through private practitioners: characteristics of Kenyan contraceptive acceptors. Rogo KO. **Int J Gynaecol Obstet** 1990 Jan;31(1):47–55

Fertility change in Costa Rica 1960–84: analysis of retrospective lifetime reproductive histories. Rosero–Bixby L, et al. **J Biosoc Sci** 1989 Oct;21(4):419–32

Fertility on the US–Mexico border. Warren CW, et al. **J Biosoc Sci** 1989 Oct;21(4):409–17

Sexually transmitted diseases and Chlamydia trachomatis in women consulting for contraception. Avonts D, et al. **J R Coll Gen Pract** 1989 Oct;39(327):418–20

Immunoinhibition of human fertilization in vitro by antibodies to the cumulus oophorus intercellular matrix. Tesařík J. **J Reprod Fertil** 1989 Sep;87(1):193–8

Immunological approaches to contraception in dogs. Gonzalez A, et al. **J Reprod Fertil Suppl** 1989;39:189–98 (45 ref.)

Reproductive and endocrine changes in ewes actively immunized against luteinizing hormone. Roberts AJ, et al. **J Reprod Immunol** 1989 Nov;16(2):187–97

Functional morphology of testis and its excurrent ducts in rats immunized with synthetic luteinizing hormone releasing hormone conjugated to tetanus toxoid. Upadhyay SN, et al. **J Reprod Immunol** 1989 Nov;16(2):151–63

Immunology, contraception, and preeclampsia [editorial; comment] Beer AE. **JAMA** 1989 Dec 8;262(22):3184 Comment on: JAMA 1989 Dec 8;262(22):3143–7.

Contraception in the adolescent. Preparation for the 1990s. Greydanus DE, et al. **Med Clin North Am** 1990 Sep; 74(5):1205–24 (50 ref.)

Molecular cloning of an acrosomal sperm antigen gene and the production of its recombinant proteiñ for immunocontraceptive vaccine. Liu MS, et al. **Mol Reprod Dev** 1990 Mar;25(3):302–8

Contraceptive use for planned parenthood patients. Savel LE. **N J Med** 1990 Jun;87(6):493–5

Contraception and irregular menses. Hopayian K, et al. **Practitioner** 1989 Mar 22;233(1465):387–90

Contraception for women over forty. Fortney JA. **Prog Clin Biol Res** 1989;320:41–52 (21 ref.)

A study of the menopause, smoking, and contraception in women with Crohn's disease. Lichtarowicz A, et al. **Q J Med** 1989 Jul;72(267):623–31

Vaccination with a synthetic zona pellucida peptide produces long–term contraception in female mice. Millar SE, et al. **Science** 1989 Nov 17;246(4932):935–8

Mali 1987: results from the Demographic and Health Survey. **Stud Fam Plann** 1989 Nov–Dec;20(6 Pt 1):360–4

Natural fertility regulation: ethical considerations. Sgreccia E. **Suppl Int J Gynecol Obstet** 1989;1:153–6

Childbearing beliefs among Cambodian refugee women. Kulig JC. **West J Nurs Res** 1990 Feb;12(1):108–18

[Contraception and the climacteric] Fischl F. **Gynakol Rundsch** 1989;29(4):237–40 **(Ger)**

[Social–hygienic characteristics of adolescent girls and assessment of their reproductive behavior] Grebesheva II, et al. **Sov Zdravookhr** 1990;(5):31–4 (Eng. Abstr.) **(Rus)**

HISTORY

Advances in contraception. Zatuchni GI. **Adv Contracept** 1989 Dec;5(4):193–6

METHODS

A follow–up study of methods of contraception, sexual activity, and rates of trichomoniasis, candidiasis, and bacterial vaginosis. Barbone F, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):510–4

Selected aspects of the contraceptive practices of unmarried university students. Bauman KE. **Am J Obstet Gynecol** 1970 Sep 15;108(2):203–9

Active immunization against LHRH: I. Effects of conjugation site and dose. Ladd A, et al. **Am J Reprod Immunol** 1990 Jan–Feb;22(1–2):56–63

Effect of varying dosages and adjuvants on antibody response in squirrel monkeys (Saimiri sciureus) immunized with the porcine zona pellucida Mr = 55,000 glycoprotein (ZP3). Sacco AG, et al. **Am J Reprod Immunol** 1989 Sep;21(1):1–8

Contraceptive methods in the McCune–Albright syndrome. Maccari S, et al. **Clin Exp Obstet Gynecol** 1989;16(4):129–30

Adolescent contraceptive method choices. Kahn JR, et al. **Demography** 1990 Aug;27(3):323–35

Contraception: short–term vs. long–term failure rates. Ross JA. **Fam Plann Perspect** 1989 Nov–Dec;21(6):275–7

A peep into knowledge attitude and practice of family planning among naval sailors family residing in Bombay. Gupta KK, et al. **Indian J Public Health** 1988 Jul–Sep; 32(3):154–5

Long–acting steroidal contraception: an update. Bardin CW. **Int J Fertil** 1989;34 Suppl:88–95 (25 ref.)

The current and future contraceptive needs of Japanese women. Kobayashi T. **Int J Fertil** 1989;34 Suppl:14–7

An epidemiologic study of contraception and preeclampsia [see comments] Klonoff–Cohen HS, et al. **JAMA** 1989 Dec 8;262(22):3143–7 Comment in: JAMA 1989 Dec 8;262(22):3184.

Barriers and boundaries [editorial] **Lancet** 1990 Jun 23; 335(8704):1497–8

The prevalence of abnormal cervical cytology in a group of New Zealand women using contraception: a preliminary report. The New Zealand Contraception and Health Study Group. **N Z Med J** 1989 Jul 26;102(872):369–71

Encouraging pharmacists to do more. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):11–20

IUDs are contraceptives, not abortifacients: a comment on research and belief. Sivin I. **Stud Fam Plann** 1989 Nov–Dec; 20(6 Pt 1):355–9

[Immunocontraception—current research status] von Ditfurth M, et al. **Gynakologe** 1990 Jun;23(3):178–83 (35 ref.) **(Ger)**

[What is the role of cigarette smoking and various methods of contraception in the development of cervix cancer and its precancerous conditions?] Barten G. **Zentralbl Gynakol** 1990;112(7):437–43 (Eng. Abstr.) **(Ger)**

[The diaphragm—it's role at the end of the 1980's (editorial)] Borenstein R, et al. **Harefuah** 1989 Nov 15;117(10):338–40 **(Heb)**

[Sociologic problems of contraception in the opinion of women from urban and rural areas] Dubowska A, et al. **Ginekol Pol** 1989 Feb;60(2):78–85 (Eng. Abstr.) **(Pol)**

[Contraception in adolescents] Kramarosky C, et al. **Rev Chil Obstet Ginecol** 1988;53(1):15–26 (45 ref.) (Eng. Abstr.) **(Spa)**

[Don't underestimate the information given by midwives about contraception] Rådestad I, et al. **Lakartidningen** 1990 Feb 14;87(7):461 **(Swe)**

PSYCHOLOGY

Factors influencing the initial decision to use an intrauterine device. Goldstuck ND. **Br J Clin Pract** 1989 May; 43(5):173–6

[Psychological aspects of contraception] Santamaría Martinez J. **Ginecol Obstet Mex** 1977 Aug;42(250):97–108 (47 ref.) (Eng. Abstr.) **(Spa)**

TRENDS

The future of intrauterine contraception. Audebert AJ. **Acta Eur Fertil** 1989 Sep–Oct;20(5):263–7 (33 ref.)

Aggregate and lifetime contraceptive failure in the United States. Trussell J, et al. **Fam Plann Perspect** 1989 Sep–Oct; 21(5):224–6

The worldwide use of steroidal contraception. Diczfalusy E. **Int J Fertil** 1989;34 Suppl:56–63 (22 ref.)

Contraceptive social marketing in Nepal: consumer and retailer knowledge, needs and experience. Shrestha A, et al. **J Biosoc Sci** 1990 Jul;22(3):305–22

UTILIZATION

Use of contraception and family planning services in the United States, 1988. Mosher WD, et al. **Am J Public Health** 1990 Sep;80(9):1132–3

VETERINARY

Inhibition of pregnancy in heifers, using a repositol formulation of melengestrol acetate. Floyd JG Jr, et al. **Am J Vet Res** 1989 Sep;50(9):1493–5

Fertility control in female white-tailed deer. Plotka ED, et al. **J Wildl Dis** 1989 Oct;25(4):643–6

CONTRACEPTION BEHAVIOR

Sexual behavior, contraception and unintended pregnancy among young females. Wielandt H, et al. **Acta Obstet Gynecol Scand** 1989;68(3):255–9

Infertility by choice or by nature. Stewart DE, et al. **Can J Psychiatry** 1989 Dec;34(9):866–71 (23 ref.)

Health care provider and contraceptive care setting: the relationship to contraceptive behavior. Harvey SM, et al. **Contraception** 1989 Dec;40(6):715–29

Pelvic inflammatory disease: the influence of contraceptive, sexual, and social life events. Lidegaard O, et al. **Contraception** 1990 May;41(5):475–83

Contraception: short-term vs. long-term failure rates. Ross JA. **Fam Plann Perspect** 1989 Nov–Dec;21(6):275–7

Successful contraceptive behavior among adolescent mothers: are there predictors? Adams BN, et al. **J Adolesc Health Care** 1990 Jul;11(4):319–25

Risk of contraceptive discontinuation among adolescents. Balassone ML. **J Adolesc Health Care** 1989 Nov; 10(6):527–33

Contraceptive and sexual behavior of black female adolescents. A test of a social-psychological theoretical model. Durant RH, et al. **J Adolesc Health Care** 1990 Jul; 11(4):326–34

School-based clinic use and other factors affecting adolescent contraceptive behavior. Galavotti C, et al. **J Adolesc Health Care** 1989 Nov;10(6):506–12

Coming of age in the era of AIDS: puberty, sexuality, and contraception. Brooks-Gunn J, et al. **Milbank Q** 1990;68 Suppl 1:59–84

American Academy of Pediatrics Committee on Adolescence: Contraception and adolescents. **Pediatrics** 1990 Jul;86(1):134–8

Adolescent health. Adolescent reproductive behaviour. **Wkly Epidemiol Rec** 1990 Mar 16;65(11):77–81 **(Eng, Fre)**

[Adolescents and prevention—use of contraception by Norwegian adolescents during the most recent intercourse and during casual sex] Kraft P, et al. **Tidsskr Nor Laegeforen** 1990 May 10;110(12):1486–9 (Eng. Abstr.) **(Nor)**

[AIDS and contraception—increased use of condoms at the time of first intercourse among Norwegian adolescents] Kraft P, et al. **Tidsskr Nor Laegeforen** 1990 May 10; 110(12):1490–2 (Eng. Abstr.) **(Nor)**

[Attitude towards use of condoms among Norwegian adolescents] Traeen B, et al. **Tidsskr Nor Laegeforen** 1990 May 10;110(12):1493–6 (Eng. Abstr.) **(Nor)**

[Socio-hygienic aspects of performance of mini-abortion in women's consultation clinics] Katkova IP, et al. **Sov Zdravookhr** 1989;(9):53–7 (Eng. Abstr.) **(Rus)**

[Contraception in adolescents] Kramarosky C, et al. **Rev Chil Obstet Ginecol** 1988;53(1):15–26 (45 ref.) (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Attitudes toward tubal ligation among acceptors, potential candidates, and husbands in Zaire. Chibalonza K, et al. **Stud Fam Plann** 1989 Sep–Oct;20(5):273–80

PSYCHOLOGY

Depo Provera: a profile of current users. Jarman H, et al. **Aust N Z J Obstet Gynaecol** 1990 Feb;30(1):74–6

Sex, contraception and pregnancy among adolescents in foster care. Polit DF, et al. **Fam Plann Perspect** 1989 Sep–Oct;21(5):203–8

Factors influencing selected heterosexual male college students' condom use. Baffi CR, et al. **J Am Coll Health** 1989 Nov;38(3):137–41

Analysis of motivation to contraceptive use applying the weighting procedure. Chowdhury AI, et al. **Soc Biol** 1989 Fall–Winter;36(3–4):279–83

Fertility and family planning in Jordan: results from the 1985 Jordan Husbands' Fertility Survey. Warren CW, et al. **Stud Fam Plann** 1990 Jan–Feb;21(1):33–9

[Resistance to contraception] Eudier F, et al. **Rev Fr Gynecol Obstet** 1990 Apr;85(4):251–4 (2 ref.) (Eng. Abstr.) **(Fre)**

[The role of the male partner in contraception and the decision for abortion. A questionnaire study among women applying for abortion and their male partners] Graff-Iversen S, et al. **Tidsskr Nor Laegeforen** 1990 May 10;110(12):1497–500 (Eng. Abstr.) **(Nor)**

STATISTICS & NUMERICAL DATA

Selected aspects of the contraceptive practices of unmarried university students. Bauman KE. **Am J Obstet Gynecol** 1970 Sep 15;108(2):203–9

Condom machines on college campuses. Lee PA, et al. **J Adolesc Health Care** 1989 Nov;10(6):582–4

Contraceptive practice of Irish married and single first-time mothers. Greene SM, et al. **J Biosoc Sci** 1989 Oct; 21(4):379–85

Adolescent contraceptive behavior: an assessment of decision processes. Adler NE, et al. **J Pediatr** 1990 Mar; 116(3):463–71

Guatemala 1987: results from the demographic and health survey. **Stud Fam Plann** 1990 Jan–Feb;21(1):55–9

Indonesia 1987: results from the Demographic and Health Survey. **Stud Fam Plann** 1989 Sep–Oct;20(5):289–93

[Contraception in Austria] Vytiska-Binstorfer E, et al. **Wien Med Wochenschr** 1990 Jul 15;140(13):357–60 (Eng. Abstr.) **(Ger)**

TRENDS

Patterns of oral contraceptive use in the United States. Annegers JF. **Br J Rheumatol** 1989;28 Suppl 1:48–50

Patterns of oral contraceptive use in the United Kingdom. Vessey MP, et al. **Br J Rheumatol** 1989;28 Suppl 1:46–7

The new morality [letter] **Lancet** 1990 Apr 28; 335(8696):1041–2

Family planning in Rwanda: status and prospects. May JF, et al. **Stud Fam Plann** 1990 Jan–Feb;21(1):20–32

CONTRACEPTION, IMMUNOLOGIC see under **CONTRACEPTION**

CONTRACEPTIVE AGENTS

Contraceptive development lags in U.S. Meade V. **Am Pharm** 1990 May;NS30(5):22–3

Antifertility effect of andrographis paniculata in mice. Zoha MS, et al. **Bangladesh Med Res Counc Bull** 1989 Jun; 15(1):34–7

Antifertility activity of striga lutea—Part I. Hiremath SP, et al. **Indian J Physiol Pharmacol** 1990 Jan;34(1):23–5

Use of potent LHRH analogues for chronic contraception and pregnancy termination in dogs. Vickery BH, et al. **J Reprod Fertil Suppl** 1989;39:175–87

Development of contraceptives—obstacles and opportunities. Mastroianni L Jr, et al. **N Engl J Med** 1990 Feb 15; 322(7):482–4

A guide to interpreting contraceptive efficacy studies. Trussell J, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 2):558–67 (31 ref.)

Contraceptive failure in the United States: an update. Trussell J, et al. **Stud Fam Plann** 1990 Jan–Feb;21(1):51–4

ADVERSE EFFECTS

Reproductive mortality and its relation to different methods of birth control. Högberg U, et al. **J Biosoc Sci** 1990 Jul; 22(3):323–31

PHARMACOLOGY

Multicentred clinical study of the metabolic effect of the monthly injectable contraceptive containing dihydroxyprogesterone acetophenide 150 mg + estradiol enanthate 10 mg. Wiemeyer JC, et al. **Contraception** 1990 Jul;42(1):13–28

Emerging concepts towards the development of contraceptive agents. Srivastava RP, et al. **Prog Drug Res** 1989;33:267–315 (283 ref.)

CONTRACEPTIVE AGENTS, FEMALE

see related
VAGINAL CREAMS, FOAMS AND JELLIES

A three-year clinical evaluation of Norplant in Singaporean acceptors. Singh K, et al. **Adv Contracept** 1990 Mar;6(1):1–9

Long-acting progestins—an update. Singh K, et al. **Adv Contracept** 1989 Dec;5(4):241–51 (68 ref.)

A three-year clinical evaluation of Norplant-2 rods in Singapore. Singh K, et al. **Adv Contracept** 1990 Jun; 6(2):63–9

Potential acceptors of Norplant implants in comparison with recently sterilized women in Sri Lanka. Thapa S, et al. **Adv Contracept** 1989 Sep;5(3):147–62

The adolescent heterosexual relationship and its association with the sexual and contraceptive behavior of black females. DuRant RH, et al. **Am J Dis Child** 1989 Dec; 143(12):1467–72

A comparative study of the safety, effectiveness and acceptability of two foaming vaginal tablets (nonoxynol-9 versus menfegol) in Thai women. Chompootaweep S, et al. **Contraception** 1990 May;41(5):507–17

Contraceptive efficacy of tamoxifen in female hamsters [published erratum appears in Contraception 1990 Apr;41(4):451] Majumdar N, et al. **Contraception** 1990 Jan; 41(1):93–103

Heidelberg International Symposium on New Aspects in Female Contraception: Update and Trends. Abstracts. Heidelberg (West Germany), June 13th–16th, 1987. **Gynecol Endocrinol** 1987;1 Suppl 2:1–94

Combretodendron Africanum bark extract as an antifertility agent. I: Estrogenic effects in vivo and LH release by cultured gonadotrope cells. Benie T, et al. **J Ethnopharmacol** 1990 Apr;29(1):13–23

Use of contraceptive and related plants by the Kayapo Indians (Brazil). Elisabetsky E, et al. **J Ethnopharmacol** 1989 Oct;26(3):299–316

Acceptance and perceptions of NORPLANT among users in San Francisco, USA. Darney PD, et al. **Stud Fam Plann** 1990 May–Jun;21(3):152–60

Assessing the acceptability of NORPLANT implants in four countries: findings from focus group research. Zimmerman M, et al. **Stud Fam Plann** 1990 Mar–Apr;21(2):92–103

[Acceptability of norplant implantation in China] Gu SJ. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Sep;24(5):291–4, 317–8 (Eng. Abstr.) **(Chi)**

[Psychological aspects of contraception] Santamaría Martinez J. **Ginecol Obstet Mex** 1977 Aug;42(250):97–108 (47 ref.) (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Intranasal LHRH agonist combined periodically with a progestogen for contraception. Lemay A. **Adv Contracept** 1989 Dec;5(4):253–62

Inhibition of pregnancy in heifers, using a repositol formulation of melengestrol acetate. Floyd JG Jr, et al. **Am J Vet Res** 1989 Sep;50(9):1493–5

Levonorgestrel-releasing intrauterine device. Luukkainen T, et al. **Ann Med** 1990 Apr;22(2):85–90 (22 ref.)

Levonorgestrel-releasing intrauterine device in the treatment of menorrhagia. Andersson JK, et al. **Br J Obstet Gynaecol** 1990 Aug;97(8):690–4

Attitudes towards contraceptive implants and injectables among present and former users in Singapore. Singh K, et al. **J Biosoc Sci** 1990 Jan;22(1):1–11

Luteinizing hormone releasing hormone agonist for contraception in breast feeding women. Fraser HM, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):996–1002

Transdermal dual-controlled delivery of contraceptive drugs: formulation development, in vitro and in vivo evaluations, and clinical performance. Chien YW, et al. **Pharm Res** 1989 Dec;6(12):1000–10

Transdermal delivery of levonorgestrel. V. Preparation of devices and evaluation in vitro. Friend DR, et al. **Pharm Res** 1989 Nov;6(11):938–44

[Norplant] Hamerlynck JV. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):516–7 **(Dut)**

[Doctors and injectable contraception. Analysis of the logistics of prescribing in accordance with the views expressed by doctors] Herachkorn P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990;19(2):228–36 (Eng. Abstr.) **(Fre)**

[Current methods of birth control] Kaykasidze GA, et al. **Akush Ginekol (Mosk)** 1989 Jul;(7):10–3 (33 ref.) **(Rus)**

ADVERSE EFFECTS

Therapy of patients at risk. Skidmore FD. **Ann N Y Acad Sci** 1990;586:284–7

Depot medroxyprogesterone and risk of breast cancer [letter; comment] Gray RH. **BMJ** 1989 Oct 28;299(6707):1099 Comment on: BMJ 1989 Sep 23;299(6702):759–62.

Depot medroxyprogesterone (Depo-Provera) and risk of breast cancer [see comments] Paul C, et al. **BMJ** 1989 Sep 23;299(6702):759–62 Comment in: BMJ 1989 Oct 28;299(6707):1099.

A longitudinal study on cortisol, prolactin and thyroid hormones in users of Norplant subdermal implants or a copper T device. Díaz S, et al. **Contraception** 1989 Oct; 40(4):505–17

Insertion site complications during the first year of NORPLANT use. Klavon SL, et al. **Contraception** 1990 Jan;41(1):27–37

Contraceptive steroids as a risk factor for hepatocellular carcinoma: a case/control study in South African black women. Kew MC, et al. **Hepatology** 1990 Feb; 11(2):298–302

Injectable contraceptives and risk of invasive cervical cancer: evidence of an association. Herrero R, et al. **Int J Cancer** 1990 Jul 15;46(1):5–7

Medroxyprogesterone (Depo Provera) and breast cancer [letter] McCowan L. **N Z Med J** 1990 May 9; 103(889):225–6

[Contraception and the risk of genital infections in women] Serfaty D. **Rev Fr Gynecol Obstet** 1989 Mar 25;84(3 Pt 2):233–6; discussion 240–4 (Eng. Abstr.) **(Fre)**

BLOOD

Radioimmunological determination of levonorgestrel and ethinylestradiol. Li QG, et al. **J Tongji Med Univ** 1989; 9(2):65–73

PHARMACOLOGY

A three–year evaluation of metabolic changes in Singaporean Norplant–2 rod acceptors. Singh K, et al. **Adv Contracept** 1990 Jun;6(2):71–80

Norplant–2 rods contraceptive subdermal implants: two–year experience in Singapore. Singh K, et al. **Adv Contracept** 1989 Jun;5(2):91–9

A three–year evaluation of metabolic changes in Singaporean Norplant acceptors. Singh K, et al. **Adv Contracept** 1990 Mar;6(1):11–21

A three–year evaluation of hemostatic function in Singaporean Norplant–2 rod acceptors. Singh K, et al. **Adv Contracept** 1990 Jun;6(2):81–9

A three–year evaluation of hemostatic function in Singaporean Norplant acceptors. Singh K, et al. **Adv Contracept** 1990 Mar;6(1):23–32

Ovarian function during use of a levonorgestrel–releasing IUD. Barbosa I, et al. **Contraception** 1990 Jul;42(1):51–66

Ovarian endocrine function through five years of continuous treatment with NORPLANT subdermal contraceptive implants. Brache V, et al. **Contraception** 1990 Feb; 41(2):169–77

Clinical assessment of treatments for prolonged bleeding in users of Norplant implants. Díaz S, et al. **Contraception** 1990 Jul;42(1):97–109

A study of the vaginal contraceptive sponge used with and without the fertility awareness method. Kass–Annese B, et al. **Contraception** 1989 Dec;40(6):701–14

Levonorgestrel and norethindrone alter insulin action on skeletal muscle of the female rat. Hager SR, et al. **Horm Metab Res** 1990 May;22(5):265–8

Correlation of contraceptive activity of norethisterone and levonorgestrel esters with VR(w) values and hydrolysis rates. Karunanithy R, et al. **J Pharmacobiodyn** 1989 Aug; 12(8):468–75

Fertility control in female white–tailed deer. Plotka ED, et al. **J Wildl Dis** 1989 Oct;25(4):643–6

The effects of depo–medroxyprogesterone acetate (DMPA) on copulation–related and agonistic behaviors in an island colony of stumptail macaques (Macaca arctoides). Linn GS, et al. **Physiol Behav** 1990 Mar;47(3):403–8

[Norplant in The Netherlands] Braat DD, et al. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):543–4 **(Dut)**

THERAPEUTIC USE

Depo Provera: a profile of current users. Jarman H, et al. **Aust N Z J Obstet Gynaecol** 1990 Feb;30(1):74–6

[The use of the triphasic contraceptive preparation trisiston for therapeutic purposes] Vasilev D, et al. **Akush Ginekol (Sofiia)** 1990;29(1):79–83 (Eng. Abstr.) **(Bul)**

CONTRACEPTIVE AGENTS, MALE

Male contraception. Bain J. **Adv Contracept** 1989 Dec; 5(4):263–9 (21 ref.)

Effect of depot medroxyprogesterone acetate and testosterone oenanthate on serum lipoproteins in man. Wallace EM, et al. **Contraception** 1990 Jan;41(1):63–71

Anti–spermatogenic activity of malvidin chloride in langur monkeys (Presbytis entellus entellus Dufresne). Bhargava SK. **Int J Androl** 1990 Jun;13(3):207–15

Pyrimethamine: an approach to the development of a male contraceptive. Cosentino MJ, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1431–5

CHEMICAL SYNTHESIS

Long–acting contraceptive agents: testosterone esters of unsaturated acids. Francisco CG, et al. **Steroids** 1990 Jan; 55(1):36–9

[Synthesis and antifertility actions of gossypol derivatives and phenol aldehydes] Wu GP, et al. **Yao Hsueh Hsueh Pao** 1989;24(7):502–11 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Effect of alpha–chlorohydrin on in situ pH in rat testis and epididymis. Caflisch CR, et al. **Contraception** 1990 Feb; 41(2):207–12

Limitations in developing gossypol acetic acid as a male contraceptive. Lohiya NK, et al. **Contraception** 1990 May; 41(5):519–32

Histological changes in the vas deferens of rats after injection of a new male antifertility agent "SMA" and its reversibility. Sethi N, et al. **Contraception** 1990 Mar; 41(3):333–9

An overview of the clinical pharmacology and therapeutic potential of gossypol as a male contraceptive agent and in gynaecological disease. Wu D. **Drugs** 1989 Sep; 38(3):333–41 (64 ref.)

CONTRACEPTIVE DEVICES

Contraceptive development lags in U.S. Meade V. **Am Pharm** 1990 May;NS30(5):22–3

Choices: contraception, pregnancy, birth, and abortion. Klein L. **J Med Assoc Ga** 1990 Jan;79(1):31–3

Development of contraceptives—obstacles and opportunities. Mastroianni L Jr, et al. **N Engl J Med** 1990 Feb 15; 322(7):482–4

A guide to interpreting contraceptive efficacy studies. Trussell J, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 2):558–67 (31 ref.)

Contraceptive failure in the United States: an update. Trussell J, et al. **Stud Fam Plann** 1990 Jan–Feb;21(1):51–4

[Psychological aspects of contraception] Santamaría Martínez J. **Ginecol Obstet Mex** 1977 Aug;42(250):97–108 (47 ref.) (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Barrier methods of contraception and the risk of cervical neoplasia. Parazzini F, et al. **Contraception** 1989 Nov; 40(5):519–30 (17 ref.)

CONTRACEPTIVE DEVICES, FEMALE

Barrier contraception. Devlin MC, et al. **Adv Contracept** 1989 Dec;5(4):197–204 (27 ref.)

The female condom [letter] Sakondhavat C. **Am J Public Health** 1990 Apr;80(4):498

Fitting a diaphragm. Kovacs GT. **Aust Fam Physician** 1990 May;19(5):713, 716

A new type of sanitary tampon, (Gynaeseal) that can also be used as an alternative diaphragm has been developed [letter] Cattanach J. **Aust N Z J Obstet Gynaecol** 1989 Aug; 29(3 Pt 1):275

The in vivo release characteristics of a multi–compartment vaginal ring releasing 3–keto–desogestrel. Jackson R, et al. **Contraception** 1989 Nov;40(5):615–21

A study of the vaginal contraceptive sponge used with and without the fertility awareness method. Kass–Annese B, et al. **Contraception** 1989 Dec;40(6):701–14

Microdose intravaginal levonorgestrel contraception: a multicentre clinical trial. I. Contraceptive efficacy and side effects. World Health Organization. Task Force on Long–Acting Systemic Agents for Fertility Regulation. Koetsawang S, et al. **Contraception** 1990 Feb;41(2):105–24

Microdose intravaginal levonorgestrel contraception: a multicentre clinical trial. II. Expulsions and removals. World Health Organization. Task Force on Long–Acting Systemic Agents for Fertility Regulation. Koetsawang S, et al. **Contraception** 1990 Feb;41(2):125–41

Microdose intravaginal levonorgestrel contraception: a multicentre clinical trial. III. The relationship between pregnancy rate and body weight. World Health Organization. Task Force on Long–Acting Systemic Agents for Fertility Regulation. Koetsawang S, et al. **Contraception** 1990 Feb;41(2):143–50

A contraceptive vaginal ring releasing ethinyl estradiol and the progestin ST–1435: bleeding control, serum steroid concentrations, serum lipids and serum chemistry. Laurikka–Routti M, et al. **Contraception** 1990 Jul; 42(1):111–20

Factors associated with use of the contraceptive sponge. Harvey SM, et al. **Fam Plann Perspect** 1989 Jul–Aug; 21(4):179–83

Heidelberg International Symposium on New Aspects in Female Contraception: Update and Trends. Abstracts. Heidelberg (West Germany), June 13th–16th, 1987. **Gynecol Endocrinol** 1987;1 Suppl 2:1–94

Frequency of use, knowledge, and attitudes toward the contraceptive sponge among inner–city black and Hispanic adolescent females. Diaz A, et al. **J Adolesc Health Care** 1990 Mar;11(2):125–7

The Gynaeseal diaphragm tampon [letter] Cattanach JF. **Med J Aust** 1990 Jan 1;152(1):52–3

Effectiveness of the cavity–rim cervical cap: results of a large clinical study [letter; comment] Forrest JD. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):469–70 Comment on: Obstet Gynecol 1989 Aug;74(2):143–8.

[Benzalkonium chloride for vaginal contraception—the vaginal sponge] Meyer U, et al. **Geburtshilfe Frauenheilkd** 1990 Jul;50(7):542–7 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Microdose intravaginal levonorgestrel contraception: a multicentre clinical trial. IV. Bleeding patterns. World Health Organization. Task Force on Long–Acting Systemic Agents for Fertility Regulation. Koetsawang S, et al. **Contraception** 1990 Feb;41(2):151–67

Health behavior and urinary tract infection in college–aged women. Foxman B, et al. **J Clin Epidemiol** 1990; 43(4):329–37

STANDARDS

Preliminary evaluation of REALITY, a condom for women to wear. Leeper MA, et al. **Adv Contracept** 1989 Dec; 5(4):229–35

Vaginal diaphragm rings in the treatment of stress urinary incontinence. Realini JP, et al. **J Am Board Fam Pract** 1990 Apr–Jun;3(2):99–103

Evaluation of the virus permeability of a new condom for women. Drew WL, et al. **Sex Transm Dis** 1990 Apr–Jun; 17(2):110–2

UTILIZATION

The contraceptive sponge: factors in initiation and discontinuation of use. Beckman LJ, et al. **Contraception** 1989 Oct;40(4):481–96

The vaginal contraceptive diaphragm and the condom—a reevaluation and comparison of two barrier methods with the rhythm method. Dicker D, et al. **Contraception** 1989 Oct;40(4):497–504

CONTRACEPTIVE DEVICES, INTRAUTERINE see **INTRAUTERINE DEVICES**

CONTRACEPTIVE DEVICES, MALE

Condoms for the prevention of HIV transmission: cultural dimensions. Potts M, et al. **AIDS** 1989;3 Suppl 1:S259–63 (33 ref.)

French public opinion regarding the diversification of retail outlets for condoms [letter] Spencer BE, et al. **AIDS** 1990 Jun;4(6):597–8

Designing interventions to prevent HIV–1 infection by promoting use of condoms and spermicides among intravenous drug abusers and their sexual partners. Stone AJ, et al. **AIDS Educ Prev** 1989 Fall;1(3):171–83

Natural membrane condoms still no barrier to STDs [news] Scherer P. **Am J Nurs** 1989 Oct;89(10):1266

The female condom [letter] Sakondhavat C. **Am J Public Health** 1990 Apr;80(4):498

Condom advice in rubber urticaria [letter; comment] Fisher AA. **Contact Dermatitis** 1989 Nov;21(5):354 Comment on: Contact Dermatitis 1989 May;20(5):360–4.

High speed cinematography of the initial break–point of latex condoms during the air burst test. Stube R, et al. **Contraception** 1990 Jun;41(6):591–603

Sexual activity, condom use and AIDS awareness among adolescent males. Sonenstein FL, et al. **Fam Plann Perspect** 1989 Jul–Aug;21(4):152–8

HIV risk difference between condom users and nonusers among U.S. heterosexual women. Perlman JA, et al. **J Acquir Immune Defic Syndr** 1990;3(2):155–65

Free condoms in youth clubs in Copenhagen. Segest E, et al. **J Adolesc** 1990 Mar;13(1):17–24

Condom machines on college campuses. Lee PA, et al. **J Adolesc Health Care** 1989 Nov;10(6):582–4

Condom sense and privacy. Auth JB, et al. **J Am Coll Health** 1990 Jul;39(1):45–6

Prompting bar patrons with signs to take free condoms. Honnen TJ, et al. **J Appl Behav Anal** 1990 Summer; 23(2):215–7

Factors related to the use of condoms among French–Canadian university students. Hébert Y, et al. **J Soc Psychol** 1989 Oct;129(5):707–9

Problems with condom catheters [letter] **JAMA** 1990 Jun 20;263(23):3148–9

From the Alcohol, Drug Abuse, and Mental Health Administration. Goodwin FK. **JAMA** 1990 Sep 19; 264(11):1389

From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Sep 12;264(10):1239

Attitudes of French–Canadian university students toward use of condoms: a structural analysis. Bernard J, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):851–4

The postAIDS structure of students' attitudes to condoms: age, sex and experience of use. Sheeran P, et al. **Psychol Rep** 1990 Apr;66(2):614

Condom use and use–effectiveness in high–risk populations. Darrow WW. **Sex Transm Dis** 1989 Jul–Sep;16(3):157–60

Sexual decision–making and AIDS: why condom promotion among vulnerable women is likely to fail. Worth D. **Stud Fam Plann** 1989 Nov–Dec;20(6 Pt 1):297–307

[Attitudes of women and men toward condoms] Zvěřina J, et al. **Cesk Gynekol** 1989 Jul;54(6):411–5 (Eng. Abstr.) **(Cze)**

[Condoms and adolescents. A prospective study of a new method of teaching] Hansen ML, et al. **Ugeskr Laeger** 1990 Aug 27;152(35):2478–80 (Eng. Abstr.) **(Dan)**

[How can the male protect himself from HIV infection?] Raab W. **Fortschr Med** 1989 Aug 20;107(24):512–4 (13 ref.) (Eng. Abstr.) **(Ger)**

[The problem of the effectiveness of condoms against HIV infection] April K, et al. **Schweiz Med Wochenschr** 1990 Jun 30;120(26):972–8 (48 ref.) (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Allergic reactions to rubber condoms [letter] Turjanmaa K, et al. **Genitourin Med** 1989 Dec;65(6):402–3

[Rubber gloves and condoms cause immediate hypersensitivity] Turjanmaa K. **Duodecim** 1989; 105(23–24):1905–8 (17 ref.) **(Fin)**

HISTORY

[History of the condom] Dolev E. **Harefuah** 1989 Jun 15; 116(12):656–7 **(Heb)**

STANDARDS

Reading ability and the use of condoms [letter] Mullins RM. **Med J Aust** 1989 Sep 18;151(6):358–9

Evaluation of the virus permeability of a new condom for women. Drew WL, et al. **Sex Transm Dis** 1990 Apr–Jun; 17(2):110–2

Virus leakage through natural membrane condoms. Lytle CD, et al. **Sex Transm Dis** 1990 Apr–Jun;17(2):58–62

[A simple and rapid method to test the permeability of condoms to viruses] Beytout D, et al. **Presse Med** 1989 Oct 14;18(33):1651–3 (Eng. Abstr.) (Fre)

STATISTICS & NUMERICAL DATA

[Use of condoms in relation to risk behavior among the heterosexual population in Norway] Sundet JM, et al. **Tidsskr Nor Laegeforen** 1989 Nov 20;109(32):3341–3 (Eng. Abstr.) (Nor)

SUPPLY & DISTRIBUTION

Males' use of public health department family planning services. Glasser M. **Am J Public Health** 1990 May; 80(5):611–2

Irish condom ruling [news] Nowlan D. **BMJ** 1990 Jun 2; 300(6737):1420–1

Condom vending machines in Canada's secondary schools. Kerr DL. **J Sch Health** 1990 Mar;60(3):114–5

UTILIZATION

The HIV epidemic and changes in the use of contraception among Norwegian adolescents. Kraft P, et al. **AIDS** 1990 Jul;4(7):673–8

The utility of multiple strategies for understanding complex behaviors [comment] Adler NE, et al. **Am J Public Health** 1990 Oct;80(10):1180–2 Comment on: Am J Public Health 1990 Oct;80(10):1174–9.

Prior condom use and the risk of tubal pregnancy. Li DK, et al. **Am J Public Health** 1990 Aug;80(8):964–6

Variables influencing condom use among intravenous drug users. Magura S, et al. **Am J Public Health** 1990 Jan; 80(1):82–4

Increase in condom sales following AIDS education and publicity, United States. Moran JS, et al. **Am J Public Health** 1990 May;80(5):607–8

The attitude/behavior discrepancy as a methodological artifact: comment on 'sexually active adolescents and condoms' [see comments] Nickerson CA. **Am J Public Health** 1990 Oct;80(10):1174–9 Comment in: Am J Public Health 1990 Oct;80(10):1180–2.

Condom use low despite increase [news] **Am Pharm** 1990 Jun;NS30(6):14–5

Condom use and acceptance: a survey of male Zimbabweans. Mbizvo MT, et al. **Cent Afr J Med** 1989 Nov;35(11):519–23

The vaginal contraceptive diaphragm and the condom—a reevaluation and comparison of two barrier methods with the rhythm method. Dicker D, et al. **Contraception** 1989 Oct;40(4):497–504

Condom use by heterosexuals attending a department of GUM: attitudes and behaviour in the light of HIV infection. Sonnex C, et al. **Genitourin Med** 1989 Aug;65(4):248–51

Factors influencing selected heterosexual male college students' condom use. Baffi CR, et al. **J Am Coll Health** 1989 Nov;38(3):137–41

Sexual practices and condom usage in a cohort of homosexual men in relation to human immunodeficiency virus status. Tindall B, et al. **Med J Aust** 1989 Sep 18;151(6):318–22

Heterosexual behaviors and factors that influence condom use among patients attending a sexually transmitted disease clinic—San Francisco. **MMWR** 1990 Oct 5;39(39):685–9

[AIDS and contraception—increased use of condoms at the time of first intercourse among Norwegian adolescents] Kraft P, et al. **Tidsskr Nor Laegeforen** 1990 May 10; 110(12):1490–2 (Eng. Abstr.) (Nor)

[Attitude towards use of condoms among Norwegian adolescents] Traeen B, et al. **Tidsskr Nor Laegeforen** 1990 May 10;110(12):1493–6 (Eng. Abstr.) (Nor)

CONTRACEPTIVES, ORAL

The next generation of oral contraceptives in clinical practice. Derman RJ. **Acta Obstet Gynecol Scand Suppl** 1990;152:45–6

Oral contraception: risks and benefits. Steinberg WM. **Adv Contracept** 1989 Dec;5(4):219–28 (44 ref.)

Optimizing contraceptive decisions: clinical implications of the triphasic randomized clinical trial. Proceedings of a symposium. Tucson, Arizona, January 21, 1989. **Am J Obstet Gynecol** 1989 Nov;161(5):1385–415

Oral contraceptives and infection rates [letter; comment] Grimes DA, et al. **Am J Obstet Gynecol** 1990 Apr; 162(4):1121–2 Comment on: Am J Obstet Gynecol 1989 Feb;160(2):396–402.

The pill, parity, and rheumatoid arthritis. Spector TD, et al. **Arthritis Rheum** 1990 Jun;33(6):782–9

Oral contraceptive use, human papillomavirus infection, and risk of early cytological abnormalities of the cervix. Negrini BP, et al. **Cancer Res** 1990 Aug 1;50(15):4670–5

Serum lipids in Chinese patients using oral contraceptive pills. Ho PC, et al. **Contraception** 1990 Jan;41(1):55–61

Oral contraceptive use does not protect against large bowel cancer. Kune GA, et al. **Contraception** 1990 Jan;41(1):19–25

Factors associated with use of the contraceptive sponge. Harvey SM, et al. **Fam Plann Perspect** 1989 Jul–Aug; 21(4):179–83

Review of lipids, cardiovascular disease, and oral contraceptives [letter] Corson SL. **Fertil Steril** 1990 Aug; 54(2):363–4

Interference with ovulation by sequential treatment with the antiprogesterone RU486 and synthetic progestin. Kekkonen R, et al. **Fertil Steril** 1990 Apr;53(4):747–50

Heidelberg International Symposium on New Aspects in Female Contraception: Update and Trends. Abstracts. Heidelberg (West Germany), June 13th–16th, 1987. **Gynecol Endocrinol** 1987;1 Suppl 2:1–94

Association of oral contraceptive use and human papillomaviruses in invasive cervical cancers. Hildesheim A, et al. **Int J Cancer** 1990 May 15;45(5):860–4

Maximizing the clinical benefits of steroidal contraception: an international outlook. Proceedings of a symposium. New York City, October 22, 1988, and Rio de Janeiro, October 26, 1988. **Int J Fertil** 1989;34 Suppl:1–98

Is there an increased risk of twinning after discontinuation of the oral contraceptive pill? Murphy MF, et al. **J Epidemiol Community Health** 1989 Sep;43(3):275–9

Decreased risk of symptomatic chlamydial pelvic inflammatory disease associated with oral contraceptive use. Wølner-Hanssen P, et al. **JAMA** 1990 Jan 5; 263(1):54–9

Kickback kickoff [editorial] Gray DE. **Kans Med** 1989 Dec; 90(12):328

Pregnancies in reliable pill takers. Sparrow MJ. **N Z Med J** 1989 Nov 8;102(879):575–7

Buying contraceptives at the pharmacy. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):3–11

The relationship between menarche and sexual, contraceptive, and reproductive life events. Helm P, et al. **Scand J Prim Health Care** 1990 Mar;8(1):59–63

Is blood testing necessary before OC prescription in Africa? Buekens P, et al. **Stud Fam Plann** 1990 May–Jun; 21(3):178–80

A boost for family planning. Pearce-Biney J. **World Health Forum** 1989;10(2):200–2

[Contraception in the diabetic woman] Basdevant A. **Diabete Metab** 1990;16(2 Pt 2):113–9 (30 ref.) (Eng. Abstr.) (Fre)

[Contraception counseling. Cooperation between physicians and midwives is valuable even in the future] Rådestad I, et al. **Lakartidningen** 1990 Apr 4;87(14):1145 (Swe)

ADMINISTRATION & DOSAGE

Patterns of oral contraceptive use in the United States. Annegers JF. **Br J Rheumatol** 1989;28 Suppl 1:48–50

Patterns of oral contraceptive use in the United Kingdom. Vessey MP, et al. **Br J Rheumatol** 1989;28 Suppl 1:46–7

Reconsidering the age limits on pill use. Kaeser L. **Fam Plann Perspect** 1989 Nov–Dec;21(6):273–4

Ovarian follicles during oral contraceptive cycles: their potential for ovulation. Killick SR. **Fertil Steril** 1989 Oct; 52(4):580–2

Effect of low-dose oral contraceptive on gonadotropins, androgens, and sex hormone binding globulin in nonhirsute women. Murphy A, et al. **Fertil Steril** 1990 Jan;53(1):35–9

Clinical use of oral contraceptives administered vaginally: a case report. Sullivan-Nelson M, et al. **Fertil Steril** 1989 Nov;52(5):864–6

Relative bioavailability of ethinyl estradiol from two different oral contraceptive formulations after single oral administration to 18 women in an intraindividual cross-over design. Kuhnz W, et al. **Horm Res** 1990; 33(1):40–4

Long-acting steroidal contraception: an update. Bardin CW. **Int J Fertil** 1989;34 Suppl:88–95 (25 ref.)

A comparative study of Norinyl 1/35 versus Lo-Ovral in Ile-Ife Nigeria. Ayangade O, et al. **Int J Gynaecol Obstet** 1989 Oct;30(2):165–70

Attenuation of mild hyperandrogenic activity in postpubertal acne by a triphasic oral contraceptive containing low doses of ethynyl estradiol and d,l-norgestrel [see comments] Lemay A, et al. **J Clin Endocrinol Metab** 1990 Jul; 71(1):8–14 Comment in: J Clin Endocrinol Metab 1990 Jul;71(1):5–7.

Relevance of biological properties of progestogen of oral contraceptives in treatment of androgen excess symptoms [comment] Pang S. **J Clin Endocrinol Metab** 1990 Jul; 71(1):5–7 Comment on: J Clin Endocrinol Metab 1990 Jul;71(1):8–14.

Pregnancy, breast feeding, and oral contraceptives and the risk of epithelial ovarian cancer. Gwinn ML, et al. **J Clin Epidemiol** 1990;43(6):559–68

Auditory sensitivity and tone-sequence reproduction in oral contraceptive users and nonusers. Grieze-Jurgelevicius DM, et al. **Percept Mot Skills** 1990 Feb;70(1):271–8

Relationship between premenstrual symptoms and oral contraceptive use: a controlled study. Walker A, et al. **Psychosom Med** 1990 Jan–Feb;52(1):86–96

[Control of the pill evaluated at its true value; standard oral contraception (letter)] Doppenberg H, et al. **Ned Tijdschr Geneeskd** 1989 Aug 26;133(34):1706–7 (Dut)

[Recommendations of the "Zürich Conference" on oral contraception] Keller PJ. **Gynakol Rundsch** 1990;30(1):65–6 (Ger)

[Recommendations of the 4th Work Meeting of the Discussion Group of Zürich (letter)] **Zentralbl Gynakol** 1990;112(8):517–9 (Ger)

[Experimental use of the new generation of Tri-Step contraceptive agents in 20 treated cases] Spasojević M. **Med Arh** 1984;38(2):83–4 (Scr)

ADVERSE EFFECTS

Oral contraceptives and breast cancer. A review. Olsson H. **Acta Oncol** 1989;28(6):849–63 (160 ref.)

Re: "Breast cancer before age 45 and oral contraceptive use: new findings" [letter; comment] **Am J Epidemiol** 1989 Dec; 130(6):1254–7 Comment on: Am J Epidemiol 1989 Feb;129(2):269–80.

Re: "Potential for bias in case-control studies of oral contraceptives and breast cancer" [letter; comment] Lund E. **Am J Epidemiol** 1989 Nov;130(5):1066–8 Comment on: Am J Epidemiol 1988 Feb;127(2):205–12.

Oral contraceptive use and liver cancer. Palmer JR, et al. **Am J Epidemiol** 1989 Nov;130(5):878–82

Oral contraceptive use and the risk of myocardial infarction. Rosenberg L, et al. **Am J Epidemiol** 1990 Jun; 131(6):1009–16

Syndrome of anovulation following the oral contraceptives. Dodek OI Jr, et al. **Am J Obstet Gynecol** 1967 Aug 15; 98(8):1065–70

Triphasic Randomized Clinical Trial: comparative frequency of intermenstrual bleeding. Droegemueller W, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1407–11

The patient's reaction to side effects of oral contraceptives. Hillard PJ. **Am J Obstet Gynecol** 1989 Nov;161(5):1412–5

Correcting misconceptions about oral contraceptives. Mishell DR Jr. **Am J Obstet Gynecol** 1989 Nov;161(5):1385–9 (30 ref.)

Gestational trophoblastic disease and use of oral contraceptives [letter] Rosenberg L, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):1087–8

Rhabdomyosarcoma of the liver associated with long-term oral contraceptive use. Possible role of estrogens in the genesis of embryologically distinct liver tumors. Cote RJ, et al. **Am J Surg Pathol** 1990 Aug;14(8):784–90

Ruptured hepatic adenoma. A spectrum of presentation and treatment. Flowers BF, et al. **Am Surg** 1990 Jun;56(6):380–3

Mortality among oral contraceptive users [letter; comment] **BMJ** 1990 Feb 3;300(6720):330–1 Comment on: BMJ 1989 Dec 16;299(6714):1487–91.

Oral contraceptives and diabetes mellitus [see comments] Hannaford PC, et al. **BMJ** 1989 Nov 25;299(6711):1315–6 Comment in: BMJ 1990 Jan 20;300(6718):196.

Oral contraceptives and breast cancer. Chilvers CE, et al. **Br J Cancer** 1990 Jan;61(1):1–4 (33 ref.)

Oral contraceptives and breast cancer: results from an expanded case-control study. Stanford JL, et al. **Br J Cancer** 1989 Sep;60(3):375–81

Cardiovascular disease and use of oral contraceptives. WHO Collaborative Study. **Bull World Health Organ** 1989; 67(4):417–23

Effects of sex steroid hormones on lipoprotein levels in pre- and post menopausal women. Knopp RH. **Can J Cardiol** 1990 May;6 Suppl B:31B–35B (18 ref.)

Alteration of cephalin-cholesterol flocculation in patients taking oral contraceptive agents [letter] Keidan H. **Can Med Assoc J** 1966 May 7;94(19):1014

Conference highlights trends and controversies in oral contraceptive use [news] Check WA. **Clin Pharm** 1989 Nov;8(11):752, 755, 758 passim

Antiestrogen antibodies, oral contraception and systemic lupus erythematosus. Beaumont V, et al. **Clin Physiol Biochem** 1989;7(5):263–8

Hemorheological effects of oral contraceptives. Ernst E, et al. **Contraception** 1989 Nov;40(5):571–80

Hereditary angioedema and oral contraception [letter] Borradori L, et al. **Dermatologica** 1990;181(1):78–9

Oral contraceptives use and liver tumours: a review. Kenya PR. **East Afr Med J** 1990 Mar;67(3):146–53 (18 ref.)

Oral contraceptives and vascular disease. Stolley PD, et al. **Epidemiol Rev** 1989;11:241–3 (9 ref.)

Lipids, cardiovascular disease, and oral contraceptives: a practical perspective. Upton GV. **Fertil Steril** 1990 Jan; 53(1):1–12 (65 ref.)

Lack of association between oral contraceptive use and ulcerative colitis. Lashner BA, et al. **Gastroenterology** 1990 Oct;99(4):1032–6

Lack of association between oral contraceptive use and Crohn's disease: a community-based matched case-control study. Lashner BA, et al. **Gastroenterology** 1989 Dec; 97(6):1442–7

Myocardial infarction in young women with reference to oral contraceptive use. Ananijević-Pandey J, et al. **Int J Epidemiol** 1989 Sep;18(3):585–8

Oral contraceptive use and risk of invasive cervical cancer. Brinton LA, et al. **Int J Epidemiol** 1990 Mar;19(1):4–11

Oral contraceptives and breast cancer risk: a case-control study. Harris RE, et al. **Int J Epidemiol** 1990 Jun; 19(2):240–6

Oral contraceptive use and premenopausal breast cancer in Sweden and Norway: possible effects of different pattern of use. Lund E, et al. **Int J Epidemiol** 1989 Sep;18(3):527–32

Oral contraceptive use and invasive cervical cancer. Parazzini F, et al. **Int J Epidemiol** 1990 Jun;19(2):259–63

Results of oral contraceptive epidemiologic studies regarding neoplastic and cardiovascular effects. Grimes DA. **Int J Fertil** 1989;34 Suppl:27–33 (8 ref.)

Cardiovascular effects of oral contraceptives: a review. Stubblefield PG. **Int J Fertil** 1989;34 Suppl:40–9 (53 ref.)

Oral contraceptives, insulin resistance and ischemic vascular disease. Eschwège E, et al. **Int J Gynaecol Obstet** 1990

Mar;31(3):263–9
Chlamydia trachomatis cervical infection and oral contraceptive use among adolescent girls. Oh MK, et al. **J Adolesc Health Care** 1989 Sep;10(5):376–81
The validity of different control groups in a case–control study. Oral contraceptive use and breast cancer in young women. Lund E. **J Clin Epidemiol** 1989;42(10):987–93
Oral contraceptives and human immunodeficiency virus infection [letter; comment] Amstey MS. **J Infect Dis** 1990 Jul;162(1):274 Comment on: J Infect Dis 1989 Jul;160(1):116–25.
Oral contraceptives and intestinal ischaemia [letter] Greig JD. **J R Coll Gen Pract** 1989 Feb;39(319):76
Oral contraception for women in their 40s [clinical conference] Mishell DR Jr, et al. **J Reprod Med** 1990 Apr; 35(4 Suppl):447–81 (40 ref.)
Oral contraceptive use and breast cancer risk in young women: subgroup analyses. UK National Case–Control Study Group. **Lancet** 1990 Jun 23;335(8704):1507–9
Oral contraceptives, breast cancer, and lactation [letter; comment] Harlap S, et al. **Lancet** 1989 Nov 11; 2(8672):1163–4 Comment on: Lancet 1989 May 6;1(8645):973–82.
Update on cancer risk and oral contraceptives. Engel NS. **MCN** 1990 Jan–Feb;15(1):37
Risk for malignant tumors after oral contraceptive use: is it related to organ size while taking the pill? Olsson H. **Med Oncol Tumor Pharmacother** 1990;7(1):61–4 (62 ref.)
Renal vein thrombosis in a dehydrated patient on an oral contraceptive agent. Böhler J, et al. **Nephrol Dial Transplant** 1989;4(11):993–5
Oral contraception and congenital malformations in offspring: a review and meta-analysis of the prospective studies. Bracken MB. **Obstet Gynecol** 1990 Sep;76(3 Pt 2):552–7
Oral contraceptives and breast cancer: a case–control study with hospital and community controls. Schildkraut JM, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):395–402
Over 40 and "the pill" [news] **Ohio Med** 1990 Feb;86(2):95
Symptomatology of HEMA contact lens wear. Brennan NA, et al. **Optom Vis Sci** 1989 Dec;66(12):834–8
Oral contraceptives and cardiovascular risk. Taking a safe course of action. Derman RJ. **Postgrad Med** 1990 Sep 15; 88(4):119–22 (21 ref.)
Incidence of uncomplicated genital infections in women using oral contraception or an intrauterine device: a prospective study. Avonts D, et al. **Sex Transm Dis** 1990 Jan–Mar; 17(1):23–9
Attempts with lipanthyl to improve lipid metabolism during the adaptation period of women taking oral contraceptives. Pilishegyi J. **Ther Hung** 1989;37(4):225–9
Some further consideration on the role of oral contraceptives in breast carcinogenesis. La Vecchia C, et al. **Tumori** 1990 Jun 30;76(3):220–4
[Oral contraceptive agents and antithrombin III] Kamenov V, et al. **Akush Ginekol (Sofiia)** 1990;29(1):60–3 (Eng. Abstr.) **(Bul)**
[Oral contraceptive agents and the fibrinolytic system] Nalbanski B, et al. **Akush Ginekol (Sofiia)** 1989;28(6):51–5 (Eng. Abstr.) **(Bul)**
[Breast carcinoma and the pill: a puzzle with missing pieces] van Leeuwen FE. **Ned Tijdschr Geneeskd** 1989 Nov 18; 133(46):2300–3 (11 ref.) **(Dut)**
[Pill monitoring rated at its true value; the standard 'oral contraceptive'] van Weel C. **Ned Tijdschr Geneeskd** 1989 Jul 8;133(27):1349–50 **(Dut)**
[Myocardial infarction and anti–ethinylestradiol antibody. Apropos of a case in an 18–year–old woman] Beigbeder JY, et al. **Arch Mal Coeur** 1990 Jun;83(7):1015–8 (Eng. Abstr.) **(Fre)**
[The pill and cancer of the breast] Gest J. **Bull Cancer (Paris)** 1990;77(1):1–3 **(Fre)**
[Jaundice caused by oral contraceptives, pregnancy cholestasis and elevation of transaminases (letter)] Ancey P, et al. **Presse Med** 1989 Sep 30;18(30):1480 **(Fre)**
[Arterial hypertension and oral contraceptives] Stryjenski B, et al. **Schweiz Rundsch Med Prax** 1990 May 15;79(20):617–9 (20 ref.) **(Fre)**
[Use of oral contraceptives in East Germany by middle–aged females] Hirsch U, et al. **Geburtshilfe Frauenheilkd** 1990 Jul;50(7):538–41 (Eng. Abstr.) **(Ger)**
[Oral contraceptives and cancer] Ludwig H. **Schweiz Rundsch Med Prax** 1989 Nov 14;78(46):1273–5 **(Ger)**
[Side effects of oral contraceptives in internal medicine—a current problem] Piper C, et al. **Verh Dtsch Ges Inn Med** 1989;95:706–12 **(Ger)**
[Methods of influencing life style and risk factors] Mancini M, et al. **G Ital Cardiol** 1989 Sep;19(9):787–99; discussion 811–9 **(Ita)**
[Oral contraceptives and arterial hypertension] Pinheiro RL, et al. **Rev Port Cardiol** 1988 May–Jun;7(3):333–43 (20 ref.) (Eng. Abstr.) **(Por)**
[Prolonged or early use of oral contraceptives—which one is the greatest risk for the development of breast cancer?] Olsson H, et al. **Lakartidningen** 1989 Dec 20;86(51):4509–11 **(Swe)**

ANTAGONISTS & INHIBITORS

The effect of antibiotics on the efficacy of oral contraceptives. A controversy revisited. Fleischer AB Jr, et al. **Arch Dermatol** 1989 Nov;125(11):1562–4

CHEMICAL SYNTHESIS

11 beta–nitrate estrane analogues: potent estrogens. Peters RH, et al. **J Med Chem** 1989 Oct;32(10):2306–10

HISTORY

The evolution of oral contraceptives. Maximizing efficacy, minimizing risks. Hedon B. **Acta Obstet Gynecol Scand Suppl** 1990;152:7–12 (27 ref.)

METABOLISM

Heparin cofactor II activity in plasma during pregnancy and oral contraceptive use. Massouh M, et al. **J Lab Clin Med** 1989 Dec;114(6):697–9

PHARMACOKINETICS

Pharmacokinetic drug interactions with oral contraceptives. Back DJ, et al. **Clin Pharmacokinet** 1990 Jun;18(6):472–84 (108 ref.)
Potency and pharmacokinetics of gestagens. Fotherby K. **Contraception** 1990 May;41(5):533–50

PHARMACOLOGY

Effects of two triphasic oral contraceptives containing ethinylestradiol plus levonorgestrel or gestodene on blood coagulation and fibrinolysis. Omajęs IH, et al. **Acta Obstet Gynecol Scand** 1989;68(1):27–30
The next generation of oral contraceptives. Proceedings of a symposium held at the XII World Congress of the International Federation of Gynecology and Obstetrics. Rio de Janeiro, October 26, 1988. **Acta Obstet Gynecol Scand Suppl** 1990;152:1–46
A study comparing a gestoden triphasic formulation with a fixed combination OC. Agoestina T, et al. **Adv Contracept** 1989 Jun;5(2):71–84
Carbohydrate studies in women using a norethindrone triphasic oral contraceptive for eighteen months. Spellacy WN, et al. **Adv Contracept** 1989 Jun;5(2):85–90
Triphasic Randomized Clinical Trial: Comparison of effects on carbohydrate metabolism. Bowes WA Jr, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1402–7
Study design for the Triphasic Randomized Clinical Trial. Dickerson JK. **Am J Obstet Gynecol** 1989 Nov; 161(5):1392–6
Longitudinal ultrasonographic study of the ovarian suppressive activity of a low–dose triphasic oral contraceptive during correct and incorrect pill intake. Hamilton CJ, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1159–62
Effects of smoking and oral contraception on plasma beta–carotene levels in healthy women. Palan PR, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):881–5
Oncogenic transformation by human papillomavirus type 16 deoxyribonucleic acid in the presence of progesterone or progestins from oral contraceptives. Pater A, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1099–103
The effect of triphasic oral contraceptives on plasma lipids and lipoproteins. Patsch W, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1396–401
Effect of menstrual cycle phase and oral contraceptive use on serum lithium levels after a loading dose of lithium in normal women. Chamberlain S, et al. **Am J Psychiatry** 1990 Jul;147(7):907–9
Carotid artery atherosclerosis in cholesterol–fed female cynomolgus monkeys. Effects of oral contraceptive treatment, social factors, and regional adiposity. Shively CA, et al. **Arteriosclerosis** 1990 May–Jun;10(3):358–66
Reduction of the risk of rheumatoid arthritis among women who take oral contraceptives. Hazes JM, et al. **Arthritis Rheum** 1990 Feb;33(2):173–9
Exogenous sex hormones and the risk of rheumatoid arthritis. Hernandez–Avila M, et al. **Arthritis Rheum** 1990 Jul; 33(7):947–53
Contraceptive potentiality of STS–557—a feasibility study in male bonnet monkey (Macaca radiata). Majumdar SS, et al. **Contraception** 1990 Jun;41(6):641–53
Conception delay after oral contraceptive use: the effect of estrogen dose. Bracken MB, et al. **Fertil Steril** 1990 Jan; 53(1):21–7
Influence of a triphasic oral contraceptive preparation on plasma lipids and lipoproteins. Lussier–Cacan S, et al. **Fertil Steril** 1990 Jan;53(1):28–34
An investigation of mood states in women taking oral contraceptives. Murawski BJ, et al. **Fertil Steril** 1968 Jan–Feb;19(1):50–63
Oral contraceptive use influences resting breast proliferation. Anderson TJ, et al. **Hum Pathol** 1989 Dec;20(12):1139–44
Endometrial cancer trends in England and Wales: a possible protective effect of oral contraception. Villard L, et al. **Int J Epidemiol** 1990 Jun;19(2):255–8
Effects of oral contraceptives on circulating lipids and lipoproteins: maximizing benefit, minimizing risk. LaRosa JC. **Int J Fertil** 1989;34 Suppl:71–84 (21 ref.)
The pharmacologic and metabolic effects of oral contraceptives. Mishell DR Jr. **Int J Fertil** 1989;34 Suppl:21–6 (28 ref.)
Noncontraceptive health benefits and risks of steroidal contraception. Pasquale SA. **Int J Fertil** 1989;34 Suppl:85–7 (10 ref.)
The effects of oral contraceptives on reproduction. Speroff L. **Int J Fertil** 1989;34 Suppl:34–9 (43 ref.)
Epidemiologic studies of oral contraception. Vessey MP. **Int J Fertil** 1989;34 Suppl:64–70 (35 ref.)
Glucose and insulin levels after six months of treatment with a triphasic oral contraceptive containing ethinyl estradiol and norethindrone. Spellacy WN, et al. **J Reprod Med** 1989 Aug;34(8):540–2
The Journal of the American Medical Association, Volume 226, 1973: Megaloblastic changes in cervical epithelium. Association with oral contraceptive therapy and reversal with folic acid [classical article] Whitehead N, et al. **Nutr Rev** 1989 Oct;47(10):318–21
Interactions between carbamazepine and birth control pills [letter] Rapport DJ, et al. **Psychosomatics** 1989 Fall; 30(4):462–4
Influence of oral contraception on the occurrence of rheumatoid arthritis in female sibs. Hazes JM, et al. **Scand J Rheumatol** 1990;19(4):306–10
Interaction between certain psychopharmaca and low–dose oral contraceptives. Somos P. **Ther Hung** 1990;38(1):37–40
Quantitation of plasma levels of tetranectin—effects of oral contraceptives, pregnancy, treatment with L–asparaginase and liver cirrhosis. Kluft C, et al. **Thromb Haemost** 1989 Sep 29;62(2):792–6
[The characteristics of triphasic estrogen–progesterone contraceptives and their theoretical indications] Senèze J. **Rev Fr Gynecol Obstet** 1990 May;85(5):301–5 (Eng. Abstr.) **(Fre)**
[The action of Sequostat in comparison to Sequence Ovosiston on selected metabolic parameters] Etzrodt R, et al. **Zentralbl Gynakol** 1990;112(8):489–96 (Eng. Abstr.) **(Ger)**
[Colposcopic evaluation of cervical epithelium during oral contraception. A controlled clinical study] Stillo A, et al. **Ann Ostet Ginecol Med Perinat** 1989 Nov–Dec; 110(6):296–304 (Eng. Abstr.) **(Ita)**
[Hormonal contraception using estroprogestins] Grio R, et al. **Minerva Ginecol** 1990 Mar;42(3):49–53 (26 ref.) (Eng. Abstr.) **(Ita)**
[3–phase–usage contraceptives] Korkhov VV, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):115–9 (24 ref.) (Eng. Abstr.) **(Rus)**

STANDARDS

Evaluating triphasic oral contraceptives: the rationale for a randomized trial. Grimes DA. **Am J Obstet Gynecol** 1989 Nov;161(5):1390–2

THERAPEUTIC USE

Control of postpartum breast engorgement with oral contraceptives. Booker DE, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1099–101
Control of postpartum breast engorgement with oral contraceptives. II. Booker DE, et al. **Am J Obstet Gynecol** 1970 Sep 15;108(2):240–2
Premature ovarian failure [letter; comment] Nelson LM, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):874–6 Comment on: Am J Obstet Gynecol 1989 Jan;160(1):114–5.
Patient acceptance of oral contraceptives. II. The private patient. Wallach EE, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1071–9
Clinical therapeutics of endometriosis, Part 2. Rumore MM, et al. **Am Pharm** 1989 Oct;NS29(10):40–4 (40 ref.)
Gonadotropin suppression with oral contraceptives before in vitro fertilization. Gonen Y, et al. **Fertil Steril** 1990 Feb; 53(2):282–7
Noncontraceptive clinical benefits of oral contraceptives. Burkman RT. **Int J Fertil** 1989;34 Suppl:50–5 (42 ref.)
The worldwide use of steroidal contraception. Diczfalusy E. **Int J Fertil** 1989;34 Suppl:56–63 (22 ref.)
The current and future contraceptive needs of Japanese women. Kobayashi T. **Int J Fertil** 1989;34 Suppl:14–7
The importance of the worldwide contraceptive experience of Japanese physicians. Satoh K. **Int J Fertil** 1989;34 Suppl:8–13
[Contraception and tubal sterility of infective origin] Gayer ML, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990; 19(2):155–64 (Eng. Abstr.) **(Fre)**
[The frequency of miscarriages in the users of oral contraception] Louhanana G. **Rev Fr Gynecol Obstet** 1990 Jun;85(6):383–6 (Eng. Abstr.) **(Fre)**

CONTRACEPTIVES, ORAL, COMBINED

Effects of oral contraceptive agents on serum fructosamine [letter] Mitchell TH, et al. **Diabetes Care** 1990 Jul; 13(7):815–6
Exacerbation of adenomyosis symptomatology by estrogen–progestin therapy: a case report and histopathological observations. Falk RJ, et al. **Int J Fertil** 1989 Nov–Dec;34(6):386–9
The current status of oral contraceptive clinical development in Japan. Kuwabara Y. **Int J Fertil** 1989;34 Suppl:18–20
[Criticizing the criticism (editorial)] Heinzl S. **Med Monatsschr Pharm** 1990 Aug;13(8):233 **(Ger)**
[Clinical pharmacologic study of Tri–Regol tablets (new oral triphase contraceptives)] Farkas M, et al. **Acta Pharm Hung** 1990 May;60(2–3):85–99 (Eng. Abstr.) **(Hun)**

ADMINISTRATION & DOSAGE

Pituitary repetitive stimulation with GnRH/TRH in women treated with three different oral steroid contraceptives. Pérez-López FR. **Acta Endocrinol (Copenh)** 1990 Feb; 122(2):163–7

Elevated plasma levels of oxytocin in women taking low-dose oral contraceptives. Identification of the plasma oxytocin with high performance liquid chromatography. Stock S, et al. **Acta Obstet Gynecol Scand** 1989;68(1):75–8

Extending the duration of the pill-free interval during combined oral contraception. Killick SR, et al. **Adv Contracept** 1990 Mar;6(1):33–40

Patterns of oral contraceptive use in the United States. Annegers JF. **Br J Rheumatol** 1989;28 Suppl 1:48–50

Patterns of oral contraceptive use in the United Kingdom. Vessey MP, et al. **Br J Rheumatol** 1989;28 Suppl 1:46–7

A double-blind comparison of the efficacy and acceptability of Femodene and Microgynon-30. Loudon NB, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Mar;34(3):257–66

Relationship between premenstrual symptoms and oral contraceptive use: a controlled study. Walker A, et al. **Psychosom Med** 1990 Jan–Feb;52(1):86–96

[A clinical trial and use of triziston-R as a contraceptive agent] Masarliev A, et al. **Akush Ginekol (Sofiia)** 1989; 28(5):67–9 **(Bul)**

[Norplant] Hamerlynck JV. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):516–7 **(Dut)**

[Recommendations of the 4th Work Meeting of the Discussion Group of Zürich (letter)] **Zentralbl Gynakol** 1990;112(8):517–9 **(Ger)**

[Serum fructosamine and oral contraception] Kital E, et al. **Harefuah** 1989 Aug;117(3–4):56–8 (Eng. Abstr.) **(Heb)**

[Experimental use of the new generation of Tri-Step contraceptive agents in 20 treated cases] Spasojević M. **Med Arh** 1984;38(2):83–4 **(Scr)**

ADVERSE EFFECTS

Drug metabolism in drug-induced liver diseases: pathogenetic role of active metabolites. Horváth T, et al. **Acta Physiol Hung** 1989;73(2–3):293–304

A comparative clinical trial of Norinyl 1 + 35 versus Norinyl 1 + 50 in Merida, Yucatan, Mexico. de Cetina TC, et al. **Adv Contracept** 1990 Jun;6(2):125–39

Clinical aspects of the relationship between oral contraceptives, abnormalities in carbohydrate metabolism, and the development of cardiovascular disease. Gaspard UJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):334–43 (62 ref.)

Low-dose oral contraceptives and carbohydrate metabolism. Godsland IF, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):348–53 (55 ref.)

Oral contraceptives in risk groups: exclusion or monitoring? Guillebaud J. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):443–6 (11 ref.)

Some aspects of the relationship between oral contraceptives, lipid abnormalities, and cardiovascular disease. Samsioe G, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):354–8 (22 ref.)

Breast cancer and combined oral contraceptives: results from a multinational study. The WHO Collaborative Study of Neoplasia and Steroid Contraceptives. **Br J Cancer** 1990 Jan;61(1):110–9

Use of combined oral contraceptive preparations alters the insulin sensitivity of fatty acid and ketone metabolism. Singh BM, et al. **Clin Endocrinol (Oxf)** 1989 May; 30(5):561–70

Oral contraceptives and lipids and lipoproteins: Part I—Variations in mean levels by oral contraceptive type. Burkman RT, et al. **Contraception** 1989 Nov;40(5):553–61

Idiopathic thromboembolism associated with triphasic oral contraceptives. Miwa LJ, et al. **DICP** 1989 Oct; 23(10):773–5

Possible estrogen-induced NMS [letter] Rivera JM, et al. **DICP** 1989 Oct;23(10):811

Breast cancer and combined oral contraceptives: an Italian case-control study. La Vecchia C, et al. **Eur J Cancer Clin Oncol** 1989 Nov;25(11):1613–8

Epithelial ovarian cancer and combined oral contraceptives. The WHO Collaborative Study of Neoplasia and Steroid Contraceptives. **Int J Epidemiol** 1989 Sep;18(3):538–45

Safety of oral contraceptives related to steroid content: a critical review. Sturtevant FM. **Int J Fertil** 1989 Sep–Oct; 34(5):323–32 (57 ref.)

Initial selection of oral contraceptives. Reiter SL, et al. **J Reprod Med** 1990 May;35(5):547–8

Combination oral contraceptives and cancer risk. Gast K, et al. **Kans Med** 1990 Jul;91(7):201–8 (29 ref.)

Vascular complications in women using the low steroid content combined oral contraceptive pills: case reports and review of the literature. Frohlich EP. **Obstet Gynecol Surv** 1990 Sep;45(9):578–84 (63 ref.)

[Norplant (letter)] van Manen S, et al. **Ned Tijdschr Geneeskd** 1990 Jul 28;134(30):1469–70 **(Dut)**

[Oral contraception and surgery] Houssel P, et al. **Cah Anesthesiol** 1989 Oct;37(6):451–4 (41 ref.) **(Fre)**

[Venous pathology with estrogens-progestagens] Vin F, et al. **Phlebologie** 1989 Jul–Oct;42(3):473–9; discussion 479–80 **(Fre)**

[Oral contraceptives and blood diseases are the most common causes of Budd-Chiari syndrome] Almer S, et al. **Lakartidningen** 1989 Nov 15;86(46):4002–8 (Eng. Abstr.) **(Swe)**

BLOOD

Protein binding of active ingredients and comparison of serum ethinyl estradiol, sex hormone-binding globulin, corticosteroid-binding globulin, and cortisol levels in women using a combination of gestodene/ethinyl estradiol (Femovan) or a combination of desogestrel/ethinyl estradiol (Marvelon) and single-dose ethinyl estradiol bioequivalence from both oral contraceptives. Hümpel M, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):329–33

METABOLISM

Metabolism of levonorgestrel, norethindrone, and structurally related contraceptive steroids. Stanczyk FZ, et al. **Contraception** 1990 Jul;42(1):67–96 (57 ref.)

PHARMACOKINETICS

Pharmacokinetics of gestagens: some problems. Fotherby K. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):323–8 (15 ref.)

Pharmacokinetic comparison of two triphasic oral contraceptive formulations containing levonorgestrel and ethinylestradiol. Stanczyk FZ, et al. **Contraception** 1990 Jan;41(1):39–53

Comparison of serum ethinyl estradiol, sex-hormone-binding globulin, corticoid-binding globulin and cortisol levels in women using two low-dose combined oral contraceptives. Hümpel M, et al. **Horm Res** 1990;33(1):35–9

PHARMACOLOGY

Ovulation inhibitors containing cyproterone acetate or desogestrel in the treatment of hyperandrogenic symptoms. Erkkola R, et al. **Acta Obstet Gynecol Scand** 1990; 69(1):61–5

Supportive European data on a new oral contraceptive containing norgestimate. Becker H. **Acta Obstet Gynecol Scand Suppl** 1990;152:33–9

Efficacy and clinical profile of a new oral contraceptive containing norgestimate. U.S. clinical trials. Corson SL. **Acta Obstet Gynecol Scand Suppl** 1990;152:25–31

A study comparing a gestoden triphasic formulation with a fixed combination OC. Agoestina T, et al. **Adv Contracept** 1989 Jun;5(2):71–84

Clinical evaluation of a new combined oral contraceptive desogestrel—ethinylestradiol. Yabur JA, et al. **Adv Contracept** 1989 Jun;5(2):57–70

Comparative studies of 30 micrograms ethinyl estradiol combined with gestodene and desogestrel on blood coagulation, fibrinolysis, and platelets. Daly L, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):430–7

Hemostasis profile in women taking low-dose oral contraceptives. David JL, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):420–3

Estrogenic effect of gestodene- or desogestrel-containing oral contraceptives on lipoprotein metabolism. Gevers Leuven JA, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):358–62

Effects of ethinyl estradiol combined with desogestrel and cyproterone acetate on glucose tolerance and insulin response to an oral glucose load: a one-year randomized, prospective, comparative trial. Jandrain BJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):378–81

Effects of newer oral contraceptives on the inhibition of coagulation and fibrinolysis in relation to dosage and type of steroid. Jespersen J, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):396–403 (52 ref.)

Clinical aspects of the relationship between oral contraceptives and abnormalities of the hemostatic system: relation to the development of cardiovascular disease. Kelleher CC. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):392–5 (25 ref.)

Effects of three combined oral contraceptive preparations containing desogestrel plus ethinyl estradiol on lipid metabolism in comparison with two levonorgestrel preparations. Kloosterboer HJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):370–3

Studies on the mechanism of action of oral contraceptives with regard to fibrinolytic variables. Kooistra T, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):404–13 (77 ref.)

Time-dependent alterations in lipid metabolism during treatment with low-dose oral contraceptives. Kuhl H, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):363–9

Metabolic changes during treatment with two different progestogens. Refn H, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):374–7

Effects of oral contraceptives on carbohydrate and lipid metabolisms in a healthy population: the Telecom study. Simon D, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):382–7

Mechanism of action of oral contraceptives on carbohydrate metabolism at the cellular level. Skouby SO, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):343–8 (31 ref.)

Interactions between the oral contraceptive pill and antibiotics [letter] Hughes BR, et al. **Br J Dermatol** 1990 May;122(5):717–8

A model to detect interactions between roxithromycin and oral contraceptives. Meyer B, et al. **Clin Pharmacol Ther** 1990 Jun;47(6):671–4

Oral contraceptives and lipids and lipoproteins: Part II—Relationship to plasma steroid levels and outlier status. Burkman RT, et al. **Contraception** 1989 Dec;40(6):675–89

Clinical and metabolic effects of a pill containing 30 mcg ethinylestradiol plus 75 mcg gestodene. Fioretti P, et al. **Contraception** 1989 Dec;40(6):649–63

Effect of oral contraceptives on adrenocorticotropin and growth hormone secretion following CRH and GHRH administration. Jacobs AJ, et al. **Contraception** 1989 Dec; 40(6):691–9

Lipid metabolism and coagulation of two contraceptives: correlation to serum concentrations of levonorgestrel and gestodene. Kjaer A, et al. **Contraception** 1989 Dec; 40(6):665–73

Pituitary, ovarian and endometrial effects of 300 micrograms norethisterone and 30 micrograms levonorgestrel administered on cycle days 7 to 10. Landgren BM, et al. **Contraception** 1990 Jun;41(6):569–81

Changes in lipid metabolism during 12 months of treatment with two oral contraceptives containing 30 micrograms ethinylestradiol and 75 micrograms gestodene or 150 micrograms desogestrel. März W, et al. **Contraception** 1990 Mar;41(3):245–58

Urinary hormonal profile during the first cycle of low-dose oral contraceptive pills in women. Ollo MA, et al **Contraception** 1990 Jul;42(1):29–34

Carbohydrate metabolic studies during twelve months of treatment with a low-dose combination oral contraceptive. Ramamoorthy R, et al. **Contraception** 1989 Nov;40(5):563–9

Clinical and hormonal effects of two contraceptives: correlation to serum concentrations of levonorgestrel and gestodene. Refn H, et al. **Contraception** 1990 Mar; 41(3):259–69

Effects of seven low-dose combined oral contraceptives on sex hormone binding globulin, corticosteroid binding globulin, total and free testosterone. van der Vange N, et al. **Contraception** 1990 Apr;41(4):345–52

Prostaglandins: PGF2 alpha, PGE2, 6-keto-PGF1 alpha and TXB2 serum levels in dysmenorrheic adolescents before, during and after treatment with oral contraceptives. Creatsas G, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Sep;36(3):292–8

Sequential endometrial alterations during one cycle of treatment with synthetic progestagen-estrogen compounds. Roland M, et al. **Fertil Steril** 1966 May–Jun;17(3):338–50

Gestodene: new clinical perspectives on progestogen efficiency. Proceedings of a symposium held at the XIIth World Congress of Gynecology and Obstetrics. Rio de Janeiro, Brazil, October 1988. **Int J Fertil** 1989 Sep;34 Suppl:1–60

Comparison of two monophasic oral contraceptives: gestodene/ethinyl estradiol versus desogestrel/ethinyl estradiol. Benagiano G. **Int J Fertil** 1989 Sep;34 Suppl:31–9

Clinical evidence of the minimal androgenic activity of norgestimate. Chapdelaine A, et al. **Int J Fertil** 1989 Sep–Oct;34(5):347–52

Metabolic aspects of the new low-dose oral contraceptives. Chez RA. **Int J Fertil** 1989 Sep;34 Suppl:50–4 (34 ref.)

A clinical overview of a new triphasic contraceptive containing gestodene. Christie T. **Int J Fertil** 1989 Sep;34 Suppl:40–9

Effect of two monophasic oral contraceptives containing gestodene or desogestrel on serum lipoprotein lipid levels. Leuven JA, et al. **Int J Fertil** 1989 Sep;34 Suppl:55–60

Inhibition of ovulation by a new low-dose monophasic contraceptive containing gestodene. Thomas KH, et al. **Int J Fertil** 1989 Sep;34 Suppl:10–21

The relevance of the pharmacologic properties of a progestational agent to its clinical effects as a combination oral contraceptive. Upton GV, et al. **Yale J Biol Med** 1989 Sep–Oct;62(5):445–57

[Hormonal contraception using estroprogestins] Grio R, et al. **Minerva Ginecol** 1990 Mar;42(3):49–53 (26 ref.) (Eng. Abstr.) **(Ita)**

STANDARDS

Norgestrel-ethinyl estradiol—an oral contraceptive. A clinical study of 725 patients. Hernandez-Torres A, et al. **Am J Obstet Gynecol** 1970 Sep 15;108(2):183–7

THERAPEUTIC USE

The influence of a combined oral contraceptive on uterine activity and reactivity to agonists in primary dysmenorrhea. Hauksson A, et al. **Acta Obstet Gynecol Scand** 1989; 68(1):31–4

The benefits of combined oral contraceptives. Drife J. **Br J Obstet Gynaecol** 1989 Nov;96(11):1255–8 (42 ref.)

CONTRACEPTIVES, ORAL, HORMONAL

Faecal level of urobilinogen: an indication for the risk of superinfection and of failure of oral anticonception? Vollaard EJ, et al. **Pharm Weekbl [Sci]** 1989 Oct 20; 11(5):165–8

Therapeutic usefulness of anteovin. Menyhárt K. **Ther Hung** 1989;37(3):168–71

[Our experience in using the Hungarian biphasic systemic contraceptive anteovin] Vasilev D, et al. **Akush Ginekol (Sofiia)** 1990;29(2):78–81 **(Bul)**

[Triphasic hormonal contraceptives] Vasilev D. **Akush Ginekol (Sofiia)** 1989;28(4):73–8 (17 ref.) **(Bul)**

[Clinical pharmacologic study of Tri-Regol tablets (new oral triphase contraceptives)] Farkas M, et al. **Acta Pharm Hung** 1990 May;60(2-3):85-99 (Eng. Abstr.) **(Hun)**

[Hormonal contraception in 46 public family clinics in Rome] Guasticchi G, et al. **Ann Ig** 1989 Sep-Oct;1(5):973-81 (Eng. Abstr.) **(Ita)**

ADMINISTRATION & DOSAGE

Oral contraceptives and rheumatoid arthritis: new data from the Royal College of General Practitioners' Oral Contraception Study. Hannaford PC, et al. **Br J Rheumatol** 1989;28 Suppl 1:36; discussion 42-5

Oral contraceptives and rheumatoid arthritis; further evidence for a protective effect independent of duration of pill use. Hazes JM, et al. **Br J Rheumatol** 1989;28 Suppl 1:34; discussion 42-5

A case-control study of oral contraceptive use in women with rheumatoid arthritis and their unaffected sisters. Hazes JM, et al. **Br J Rheumatol** 1989;28 Suppl 1:35; discussion 42-5

Preliminary findings from a case-control study of the risk of rheumatoid arthritis in relation to oral contraceptive use. Koepsell T, et al. **Br J Rheumatol** 1989;28 Suppl 1:41; discussion 42-5

Rheumatoid arthritis and oral contraceptives in the Greek female population: a case-control study. Linos A, et al. **Br J Rheumatol** 1989;28 Suppl 1:37; discussion 42-5

Oral contraceptives and the risk of rheumatoid arthritis: a meta-analysis of a conflicting literature. Romieu I, et al. **Br J Rheumatol** 1989;28 Suppl 1:13-7; discussion 18-23

Twenty-eight-day oral contraceptives: physician and user attitudes. Richards-Brandt M. **Clin Ther** 1988;10(3):259-62

[Hormonal contraception and lupus] Jungers P, et al. **Ann Med Interne (Paris)** 1990;141(3):253-6 (34 ref.) (Eng. Abstr.) **(Fre)**

[New progestins in oral hormonal contraceptives] Rusnebaum B, et al. **Arch Gynecol Obstet** 1989; 245(1-4):1000-5 (11 ref.) (Eng. Abstr.) **(Ger)**

[Results of the "light pill" action] Gerstner GJ, et al. **Gynakol Rundsch** 1989;29 Suppl 2:469-71 **(Ger)**

[Characteristics of estrogens and gestagens] Göretzlehner G, et al. **Z Arztl Fortbild (Jena)** 1990;84(1-2):7-12 (17 ref.) **(Ger)**

[Hormonal contraception in adolescents and in pre-menopause] Göretzlehner G. **Z Arztl Fortbild (Jena)** 1990;84(1-2):25-6 (6 ref.) **(Ger)**

[Forms of hormonal contraception] Rothe K. **Z Arztl Fortbild (Jena)** 1990;84(1-2):13-9 (21 ref.) **(Ger)**

ADVERSE EFFECTS

Elevated abnormal proteins in the serum of Nigerian pill users. Wright EA, et al. **Acta Physiol Hung** 1990; 75(3):201-4

Impairment of glucose tolerance: mechanism of action and impact on the cardiovascular system. Beck-Nielsen H, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):292-5 (17 ref.)

Clinical aspects of the relationship between oral contraceptives, abnormalities in carbohydrate metabolism, and the development of cardiovascular disease. Gaspard UJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):334-43 (62 ref.)

Low-dose oral contraceptives and carbohydrate metabolism. Godsland IF, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):348-53 (55 ref.)

Oral contraceptives in risk groups: exclusion or monitoring? Guillebaud J. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):443-6 (11 ref.)

Cardiovascular death among women under 40 years of age using low-estrogen oral contraceptives and intrauterine devices in Finland from 1975 to 1984. Hirvonen E, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):281-4

Some aspects of the relationship between oral contraceptives, lipid abnormalities, and cardiovascular disease. Samsioe G, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):354-8 (22 ref.)

Past use of oral contraceptives and cardiovascular disease: a meta-analysis in the context of the Nurses' Health Study. Stampfer MJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):285-91

An epidemiologic survey of cardiovascular disease in women taking oral contraceptives. Thorogood M, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):274-81 (9 ref.)

Role of plasma lipoproteins in the pathogenesis of atherosclerotic disease, with special reference to sex hormone effects. Tikkanen MJ. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):296-304 (85 ref.)

Hormonal contraception in the postmolar interval [letter; comment] Yuen BH, et al. **Am J Obstet Gynecol** 1990 May; 162(5):1345 Comment on: Am J Obstet Gynecol 1989 Apr;160(4):805-9; discussion 809-11.

Hormonal contraceptives, human papillomaviruses and cervical cancer; some observations from a colposcopy clinic. Chang AR. **Aust N Z J Obstet Gynaecol** 1989 Aug; 29(3 (Pt 2)):329-31

Mortality among oral contraceptive users: 20 year follow up of women in a cohort study [see comments] Vessey MP, et al. **BMJ** 1989 Dec 16;299(6714):1487-91 Comment in: BMJ 1990 Feb 3;300(6720):330-1.

Oral contraceptives and diabetes mellitus [letter] [published erratum appears in BMJ 1990 Feb 10;300(6721):400] [comment] Wynn V, et al. **BMJ** 1990 Jan 20;300(6718):196 Comment on: BMJ 1989 Nov 25;299(6711):1315-6.

Exogenous female hormones and rheumatoid arthritis: a methodological view of the contradictions in the literature. Esdaile JM. **Br J Rheumatol** 1989;28 Suppl 1:4-10; discussion 18-23

Oral contraceptives, replacement oestrogens and the risk of rheumatoid arthritis. Hernandez-Avila M, et al. **Br J Rheumatol** 1989;28 Suppl 1:31; discussion 42-5

A UK case-control study on the effect of parity and the oral contraceptive pill on the development of rheumatoid arthritis. Spector TD, et al. **Br J Rheumatol** 1989;28 Suppl 1:32; discussion 42-5

Oral contraceptives and the risk of rheumatoid arthritis: the great transatlantic divide? Vandenbroucke JP, et al. **Br J Rheumatol** 1989;28 Suppl 1:1-3; discussion 18-23

Contraceptive methods in the McCune-Albright syndrome. Maccari S, et al. **Clin Exp Obstet Gynecol** 1989;16(4):129-30

The role of exogenous hormones in the epidemiology of breast, ovarian and endometrial cancer. van Leeuwen FE, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1961-72 (117 ref.)

Sex-difference and the effects of smoking and oral contraceptive steroids on the kinetics of diflunisal. Macdonald JI, et al. **Eur J Clin Pharmacol** 1990;38(2):175-9

Oral contraceptives and risk of breast cancer. Paul C, et al. **Int J Cancer** 1990 Sep 15;46(3):366-73

The risks of oral contraceptives and estrogen replacement therapy. Coe FL, et al. **Perspect Biol Med** 1989 Autumn; 33(1):86-106 (31 ref.)

Ectopic pregnancy and the pill [letter] Parsons A. **Practitioner** 1989 Jun 22;233(1471):895

Hormonal influence on calcitonin gene-related peptide in man: effects of sex difference and contraceptive pills. Valdemarsson S, et al. **Scand J Clin Lab Invest** 1990 Jun; 50(4):385-8

The influence of pregnancy and contraceptive steroids on the biliary tract and its reference to cholesterol gallstone formation. Rådberg G, et al. **Scand J Gastroenterol** 1990 Feb;25(2):97-102 (75 ref.)

Oral contraceptives and the risk of rheumatoid arthritis: the great transatlantic divide? Vandenbroucke JP. **Scand J Rheumatol Suppl** 1989;79:31-2

Oral contraception and post-operative thromboembolism: an epidemiological review. Hutchison GL. **Scott Med J** 1989 Dec;34(6):547-9 (35 ref.)

[Adenomas of the liver and oral contraception. Clinical and therapeutic aspects apropos of a giant adenoma] Dreyfus M, et al. **Rev Fr Gynecol Obstet** 1989 Nov;84(11):761-5 (Eng. Abstr.) **(Fre)**

[A new test system for evaluating the risk of thromboembolism in the use of hormonal contraceptives] Pechlaner C, et al. **Gynakol Rundsch** 1989;29 Suppl 2:312-4 **(Ger)**

[Use of the stable nitrogen isotope 15N in assessing liver metabolism in hormonal contraception] Metzner C, et al. **Leber Magen Darm** 1990 Jan;20(1):34-7 (Eng. Abstr.) **(Ger)**

[Headlines] Uhl D. **Med Monatsschr Pharm** 1989 Aug; 12(8):233 **(Ger)**

[Blood pressure behavior in contraception with hormonal contraceptives] Canzler E. **Z Arztl Fortbild (Jena)** 1990; 84(1-2):39-42 (25 ref.) **(Ger)**

[Favorable effects and unwanted side effects of hormonal contraceptives] Carol W. **Z Arztl Fortbild (Jena)** 1990; 84(1-2):27-30 (13 ref.) **(Ger)**

[Hormonal contraception and the risk of cancer] Ebeling K, et al. **Z Arztl Fortbild (Jena)** 1990;84(1-2):59-63 (23 ref.) **(Ger)**

[Cardiovascular diseases with oral contraceptives: risks and benefits] Heinemann L. **Z Arztl Fortbild (Jena)** 1990; 84(1-2):43-6 (13 ref.) **(Ger)**

[Changes in carbohydrate and lipid metabolism and modification of diabetes mellitus by hormonal contraceptives] Hopp H, et al. **Z Arztl Fortbild (Jena)** 1990; 84(1-2):31-4 (20 ref.) **(Ger)**

[Lipid metabolism and hormonal contraceptives] Klinger G. **Z Arztl Fortbild (Jena)** 1990;84(1-2):35-8 (5 ref.) **(Ger)**

[Effect of hormonal contraceptives on the voice] Lembke S, et al. **Z Arztl Fortbild (Jena)** 1990;84(1-2):47-9 (15 ref.) **(Ger)**

[Hormonal contraception and pregnancy] Nikschick S. **Z Arztl Fortbild (Jena)** 1990;84(1-2):55-8 (51 ref.) **(Ger)**

[Changes in the immune system caused by hormonal contraception] Straube W, et al. **Z Arztl Fortbild (Jena)** 1990;84(1-2):51-3 (35 ref.) **(Ger)**

[Understanding microcapillary angioma, observations in pregnant patients and in females treated with hormonal contraceptives] Bantel E, et al. **Z Hautkr** 1989 Dec 15; 64(12):1071-4 (Eng. Abstr.) **(Ger)**

[Incidence of abnormalities following the use of hormonal contraceptives] Nikschick S, et al. **Zentralbl Gynakol** 1989; 111(17):1152-9 (Eng. Abstr.) **(Ger)**

[Effect of administration of hormonal contraceptives on prognostic factors in breast cancer] Schönborn I, et al. **Zentralbl Gynakol** 1990;112(5):263-6 (Eng. Abstr.) **(Ger)**

[Contradictory views at meeting of experts: support for the hypothesis on increased risk of breast cancer after prolonged use of oral contraceptives] Odlind V, et al. **Lakartidningen** 1989 Nov 22;86(47):4144, 4146, 4149 **(Swe)**

ANALYSIS

Dissolution testing of norethindrone:ethinyl estradiol, norethindrone:mestranol, and norethindrone acetate:ethinyl estradiol combination tablets. Nguyen HT, et al. **J Pharm Sci** 1990 Feb;79(2):163-7

ANTAGONISTS & INHIBITORS

[Inefficacy of oral contraception during use of minocycline] de Groot AC, et al. **Ned Tijdschr Geneeskd** 1990 Jun 23; 134(25):1227-9 (Eng. Abstr.) **(Dut)**

BLOOD

Protein binding of active ingredients and comparison of serum ethinyl estradiol, sex hormone-binding globulin, corticosteroid-binding globulin, and cortisol levels in women using a combination of gestodene/ethinyl estradiol (Femovan) or a combination of desogestrel/ethinyl estradiol (Marvelon) and single-dose ethinyl estradiol bioequivalence from both oral contraceptives. Hümpel M, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):329-33

Protein binding of the contraceptive steroids gestodene, 3-keto-desogestrel and ethinylestradiol in human serum. Kuhnz W, et al. **J Steroid Biochem** 1990 Feb;35(2):313-8

CHEMICAL SYNTHESIS

Synthesis and testing of 17a beta-hydroxy-7 alpha-methyl-D-homoestra-4,16-dien-3-one: a highly potent orally active androgen. Avery MA, et al. **Steroids** 1990 Feb;55(2):59-64

HISTORY

[Development of contraception with steroids] Göretzlehner G. **Z Arztl Fortbild (Jena)** 1990;84(1-2):3-5 **(Ger)**

METABOLISM

Oral contraceptives in the Nineties: metabolic aspects--facts and fiction. First European Conference on Sex Steroids and Metabolism. Esbjerg, Denmark, May 18-20, 1989. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):273-446

PHARMACOKINETICS

The effect of olestra on systemic levels of oral contraceptives. Miller KW, et al. **Clin Pharmacol Ther** 1990 Jul;48(1):34-40

[Pharmacokinetics of ethinyl estradiol following the administration of combination contraceptive preparations] Carol W, et al. **Zentralbl Gynakol** 1990;112(3):135-41 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Effects of long-term gestodene-containing oral contraceptive administration on hemostasis. Abbate R, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):424-9

Hemostasis profile in women taking low-dose oral contraceptives. David JL, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):420-3

Estrogenic effect of gestodene- or desogestrel-containing oral contraceptives on lipoprotein metabolism. Gevers Leuven JA, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):358-62

The clinical relevance of oral contraceptive pill-induced plasma lipid changes: facts and fiction. Hoppe G. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):388-91 (43 ref.)

Effects of newer oral contraceptives on the inhibition of coagulation and fibrinolysis in relation to dosage and type of steroid. Jespersen J, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):396-403 (52 ref.)

Clinical aspects of the relationship between oral contraceptives and abnormalities of the hemostatic system: relation to the development of cardiovascular disease. Kelleher CC. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):392-5 (25 ref.)

Effects of three combined oral contraceptive preparations containing desogestrel plus ethinyl estradiol on lipid metabolism in comparison with two levonorgestrel preparations. Kloosterboer HJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):370-3

Studies on the mechanism of action of oral contraceptives with regard to fibrinolytic variables. Kooistra T, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):404-13 (77 ref.)

Time-dependent alterations in lipid metabolism during treatment with low-dose oral contraceptives. Kuhl H, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):363-9

Influence of oral contraceptives on coagulation tests in native blood and plasma. Kunz F, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):417-20

Metabolic changes during treatment with two different progestogens. Refn H, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):374-7

Effects of oral contraceptives on carbohydrate and lipid metabolisms in a healthy population: the Telecom study. Simon D, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):382-7

Mechanism of action of oral contraceptives on carbohydrate metabolism at the cellular level. Skouby SO, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):343-8 (31 ref.)

The influence of pregnancy and oral contraceptive steroids on the concentration of plasma proteins. Studies with a quantitative immunodiffusion method. Song CS, et al. **Am J Obstet Gynecol** 1970 Sep 15;108(2):227-31

Oral contraceptive administration, interfemale relationships, and sexual behavior in Macaca fascicularis. Shively CA, et al. **Arch Sex Behav** 1990 Apr;19(2):101–17
Effect of oral contraceptive steroids on the pharmacokinetics of phenprocoumon. Mönig H, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):115–8
Comparison of two triphasic contraceptives with different progestogens: effects on metabolism and coagulation proteins. Ball MJ, et al. **Contraception** 1990 Apr; 41(4):363–76
Interaction of griseofulvin and oral contraceptives. Côté J. **J Am Acad Dermatol** 1990 Jan;22(1):124–5
Synthesis and testing of 17a beta-hydroxy-7 alpha-methyl-D-homoestra-4,16-dien-3-one: a highly potent orally active androgen. Avery MA, et al. **Steroids** 1990 Feb;55(2):59–64
Possible interactions between antibiotics and oral contraceptives. Hetényi G. **Ther Hung** 1989;37(2):86–9 (22 ref.)
The effect of lipopolysaccharides (LPS) on generation of thromboxane A2 and thromboplastin activity in whole blood of males, females and females on oral contraceptives. Hansen JB, et al. **Thromb Haemost** 1989 Jun 30;61(3):493–6
Changes of activities of some transferases, alkaline phosphatase and cholinesterase in the blood of women using oral contraceptives and in vitro influence of these agents on tissular enzyme levels in rat liver. Calić R, et al. **Z Med Lab Diagn** 1989;30(7):375–83
[Effect of oral contraceptives on developmental anomalies and on the sex ratio of newborn infants] Pejtsik B, et al. **Orv Hetil** 1990 Jun 3;131(22):1187–90 (34 ref.) (Eng. Abstr.) **(Hun)**
[Effects of low-dose oral contraceptives on sugar metabolism] Miccoli R, et al. **Minerva Ginecol** 1989 Sep; 41(9):441–4 (Eng. Abstr.) **(Ita)**
[Effects of hormonal contraceptives on menstrual and reproductive function of women] Dubnitskaia LV, et al. **Akush Ginekol (Mosk)** 1990 Apr;(4):57–60 (Eng. Abstr.) **(Rus)**
[The clinico-pharmacological characteristics of hormonal contraceptives for enteral use] Korkhov VV. **Farmakol Toksikol** 1990 Jan–Feb;53(1):77–80 (Eng. Abstr.) **(Rus)**

STANDARDS

Antifertility effectiveness of megestrol acetate: reference to previous papers on the role of oil vehicle [letter] Ercoli A. **Am J Obstet Gynecol** 1970 Sep 15;108(2):327

THERAPEUTIC USE

The protective effect of the oral contraceptive pill on rheumatoid arthritis: an overview of the analytical epidemiological studies using meta-analysis. Spector TD, et al. **Br J Rheumatol** 1989;28 Suppl 1:11–2; discussion 18–23
[The effect of oral contraceptives on bone density in climacteric females] Enzelsberger H, et al. **Zentralbl Gynakol** 1989;111(14):967–73 (Eng. Abstr.) **(Ger)**

TOXICITY

Globulines anormalment precipitables (GAP) in Nigerian users of progestogen-only pill. Wright EA, et al. **Int J Gynaecol Obstet** 1990 Feb;31(2):163–5

CONTRACEPTIVES, ORAL, SEQUENTIAL see under **CONTRACEPTIVES, ORAL**

CONTRACEPTIVES, ORAL, SYNTHETIC

The new progestogens. Elstein M, et al. **Adv Contracept** 1989 Dec;5(4):237–40 (8 ref.)
The current status of oral contraceptive clinical development in Japan. Kuwabara Y. **Int J Fertil** 1989;34 Suppl:18–20

ADMINISTRATION & DOSAGE

A comparative study of Norinyl 1/35 versus Lo-Ovral in Ile-Ife Nigeria. Ayangade O, et al. **Int J Gynaecol Obstet** 1989 Oct;30(2):165–70
[Doctors and injectable contraception. Analysis of the logistics of prescribing in accordance with the views expressed by doctors] Herschkorn P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990;19(2):228–36 (Eng. Abstr.) **(Fre)**
[Forms of hormonal contraception] Rothe K. **Z Arztl Fortbild (Jena)** 1990;84(1–2):13–9 (21 ref.) **(Ger)**

ADVERSE EFFECTS

A comparative clinical trial of Norinyl 1 + 35 versus Norinyl 1 + 50 in Merida, Yucatan, Mexico. de Cetina TC, et al. **Adv Contracept** 1990 Jun;6(2):125–39
Thrombosis of the hepatic veins. "The Budd-Chiari syndrome"—a possible link between oral contraceptives and thrombosis formation. Ecker JA, et al. **Am J Gastroenterol** 1966 Jun;45(6):429–43 (36 ref.)
Oral contraceptives and cardiovascular risk. Current perspectives. Derman RJ. **J Reprod Med** 1989 Sep;34(9 Suppl):747–65 (48 ref.)
Macromastia in a woman treated with penicillamine and oral contraceptives. A case report. Rose BI, et al. **J Reprod Med** 1990 Jan;35(1):43–5

CHEMICAL SYNTHESIS

[Study on asymmetric synthesis of steroids. XVI. Synthesis of dl-3-oxa-A-nor steroid] Wei GP, et al. **Yao Hsueh Hsueh Pao** 1990;25(1):69–72 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Carbohydrate studies in women using a norethindrone triphasic oral contraceptive for eighteen months. Spellacy WN, et al. **Adv Contracept** 1989 Jun;5(2):85–90
Changes in lipid metabolism during 12 months of treatment with two oral contraceptives containing 30 micrograms ethinylestradiol and 75 micrograms gestodene or 150 micrograms desogestrel. März W, et al. **Contraception** 1990 Mar;41(3):245–58
Clinical and laboratory evaluation of a new progestational compound. Ansari AH, et al. **Fertil Steril** 1966 May-Jun; 17(3):302–13
The effect of norethynodrel with mestranol on menstrual fluid volume. Schmidt RM. **Fertil Steril** 1966 May-Jun; 17(3):381–5
Interaction of griseofulvin and oral contraceptives. Côté J. **J Am Acad Dermatol** 1990 Jan;22(1):124–5
Serum progesterone and norethisterone levels following injection of norethisterone enanthate in different sites and doses. Joshi JV, et al. **Steroids** 1989 Jun;53(6):751–61

THERAPEUTIC USE

A comparative study of three oral contraceptives in Ibadan: Norinyl 1/35, Lo-Ovral and Noriday 1/50. Otolorin EO, et al. **Afr J Med Med Sci** 1990 Mar;19(1):15–22
Oral contraceptives and coronary artery atherosclerosis of cynomolgus monkeys. Clarkson TB, et al. **Obstet Gynecol** 1990 Feb;75(2):217–22

TOXICITY

The toxic pathophysiology of retinol hypervitaminosis and norethisterone enantate in rats. Chalaby S, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):257–64

CONTRACEPTIVES, POSTCOITAL

Must a Catholic hospital inform a rape victim of the availability of the "morning-after pill"? Brushwood DB. **Am J Hosp Pharm** 1990 Feb;47(2):395–6
Ovral as a "morning-after" contraceptive. **Med Lett Drugs Ther** 1989 Oct 20;31(803):93–4
A request for the 'morning-after' pill [see comments] Harrison J, et al. **Practitioner** 1989 Jun 22; 233(1471):899–902 Comment in: Practitioner 1989 Aug 8;233(1473):1050. Comment in: Practitioner 1989 Oct 22;233(1477):1353.
[Morphological observation of termination of early pregnancy with anordrin in mice] Ou KQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):270–2 (Eng. Abstr.) **(Chi)**
[Synthesis of 4-substituted 17 beta-hydroxy-7 alpha-methyl-4-estren-3-one and their 17-acetates as antifertility compounds] Ma JB, et al. **Yao Hsueh Hsueh Pao** 1990;25(1):18–23 (Eng. Abstr.) **(Chi)**
[Studies on coprecipitate of anordrin-PVP] Zhao FY, et al. **Yao Hsueh Hsueh Pao** 1989;24(3):219–24 (Eng. Abstr.) **(Chi)**
[Initial experiences with a levonorgestrel-ethinyl estradiol combination for interception] Fitz R, et al. **Geburtshilfe Frauenheilkd** 1989 Dec;49(12):1087–9 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

A comparative study of Norinyl 1/35 versus Lo-Ovral in Ile-Ife Nigeria. Ayangade O, et al. **Int J Gynaecol Obstet** 1989 Oct;30(2):165–70
The ethics of the 'morning-after' pill [letter; comment] Holden J. **Practitioner** 1989 Oct 22;233(1477):1353 Comment on: Practitioner 1989 Jun 22;233(1471):899–902.
Suspicion of sexual abuse [letter; comment] Shears MR. **Practitioner** 1989 Aug 8;233(1473):1050 Comment on: Practitioner 1989 Jun 22;233(1471):899–902.
[The significance of post-coital hormonal contraception for prevention of conception] Köhler G. **Z Arztl Fortbild (Jena)** 1990;84(1–2):21–4 (15 ref.) **(Ger)**

ADVERSE EFFECTS

Nausea, vomiting and the efficacy of post-coital contraception [letter] **Practitioner** 1989 Aug 8; 233(1473):1050
[Headlines] Uhl D. **Med Monatsschr Pharm** 1989 Aug; 12(8):233 **(Ger)**

PHARMACOKINETICS

Comparative cross-over pharmacokinetic study on two types of postcoital contraceptive tablets containing levonorgestrel. He CH, et al. **Contraception** 1990 May; 41(5):557–67

PHARMACOLOGY

[The contraceptive activity of triterpene glycosides—the total sum of holotoxins A1 and B1 and holothurin A in an experiment] Mats MN, et al. **Farmakol Toksikol** 1990 Mar–Apr;53(2):45–7 (Eng. Abstr.) **(Rus)**

CONTRACEPTIVES, POSTCOITAL, HORMONAL see under **CONTRACEPTIVES, POSTCOITAL**

CONTRACEPTIVES, POSTCOITAL, SYNTHETIC see under **CONTRACEPTIVES, POSTCOITAL**

CONTRACT SERVICES see under **FINANCIAL MANAGEMENT**

CONTRACTILE PROTEINS

ANALYSIS

Structural studies of the contractile tail sheath protein of bacteriophage T4. 1. Conformational change of the tail sheath upon contraction as probed by differential chemical modification. Takeda S, et al. **Biochemistry** 1990 May 29; 29(21):5050–6
The tissue distribution of microfibrils reacting with a monospecific antibody to MAGP, the major glycoprotein antigen of elastin-associated microfibrils. Kumaratilake JS, et al. **Eur J Cell Biol** 1989 Oct;50(1):117–27

BIOSYNTHESIS

Beta-adrenergic agonists stimulate the synthesis of noncontractile but not contractile proteins in cultured myocytes isolated from adult rat heart. Dubus I, et al. **Circ Res** 1990 Mar;66(3):867–74

BLOOD

Association of profilin with filament-free regions of human leukocyte and platelet membranes and reversible membrane binding during platelet activation. Hartwig JH, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1571–9

GENETICS

Study of contractile and cytoskeletal proteins using Drosophila genetics. Fyrberg E. **Cell Motil Cytoskeleton** 1989;14(1):118–27 (50 ref.)
Bacterial expression of eukaryotic contractile proteins. Leinwand LA, et al. **Cell Motil Cytoskeleton** 1989; 14(1):3–11 (59 ref.)
Human endothelial actin-binding protein (ABP-280, nonmuscle filamin): a molecular leaf spring. Gorlin JB, et al. **J Cell Biol** 1990 Sep;111(3):1089–105

ISOLATION & PURIFICATION

Isolation and characterization of a new 36-kDa microfibril-associated glycoprotein from porcine aorta. Kobayashi R, et al. **J Biol Chem** 1989 Oct 15; 264(29):17437–44
Purification of profilin from Saccharomyces cerevisiae and analysis of profilin-deficient cells. Haarer BK, et al. **J Cell Biol** 1990 Jan;110(1):105–14

METABOLISM

Differential distribution and ultrastructural staining of oxytalan and elastic fibers in the periodontal ligament of Alligator mississippiensis. Takagi M, et al. **Anat Rec** 1989 Dec;225(4):279–87
Isoform distribution and tissue contents of contractile and cytoskeletal proteins in hypertrophied smooth muscle from rat portal vein. Malmqvist U, et al. **Circ Res** 1990 Mar; 66(3):832–45
Developmental changes in expression of contractile and cytoskeletal proteins in human aortic smooth muscle. Glukhova MA, et al. **J Biol Chem** 1990 Aug 5; 265(22):13042–6
Identification of a filamin isoform enriched at the ends of stress fibers in chicken embryo fibroblasts. Pavalko FM, et al. **J Cell Sci** 1989 Sep;94 (Pt 1):109–18

PHYSIOLOGY

Contractile proteins in Drosophila development. Kiehart DP, et al. **Ann N Y Acad Sci** 1990;582:233–51 (62 ref.)
Brownian motion of inert tracer macromolecules in polymerized and spontaneously bundled mixtures of actin and filamin. Hou L, et al. **J Cell Biol** 1990 May; 110(5):1645–54
Investigations on contractile properties of retinal pigment epithelial cells. Yamakawa R, et al. **Ophthalmologica** 1989; 199(4):165–72
Evidences for slow to fast changes in the contractile proteins of rat soleus muscle after hindlimb suspension: studies on skinned fibers. Stevens L, et al. **Physiologist** 1990 Feb;33(1 Suppl):S90–1

ULTRASTRUCTURE

Divergent effects of filamin and tropomyosin on actin filaments bundling. Grazi E, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1109–14
Structural studies of the contractile tail sheath protein of bacteriophage T4. 2. Structural analyses of the tail sheath

protein, Gp18, by limited proteolysis, immunoblotting, and immunoelectron microscopy. Arisaka F, et al. **Biochemistry** 1990 May 29;29(21):5057–62

CONTRACTURE

Why is a frozen shoulder frozen? Hazleman B. **Br J Rheumatol** 1990 Apr;29(2):130

Muscle 'contractures' and the 'stiff-man' syndrome. Slater JD. **Clin Rheum Dis** 1986 Dec;12(3):791–809 (100 ref.)

CHEMICALLY INDUCED

In vitro alterations in human fibroblast behavior secondary to silicone polymers. McCauley RL, et al. **J Surg Res** 1990 Jul;49(1):103–9

CLASSIFICATION

Classification and treatment of postburn metacarpophalangeal joint extension contractures in children. Graham TJ, et al. **J Hand Surg [Am]** 1990 May;15(3):450–6

[Classification of post-burn cicatricial deformities of the neck and chest and clinico-anatomic substantiation of the use of cutaneofascial flaps from the thoracic wall] Iudenich AA, et al. **Vestn Khir** 1989 Nov;143(11):90–3 **(Rus)**

COMPLICATIONS

Contractural arachnodactyly with mitral regurgitation and iridodonesis. Huggon IC, et al. **Arch Dis Child** 1990 Mar; 65(3):317–9

Habitual dislocation of the patella. Wijesekera CG. **Ceylon Med J** 1990 Jun;35(2):57–61

Gluteal pouching: a complication of perineal burn scar contracture. A case report. Alghanem AA, et al. **J Burn Care Rehabil** 1990 Mar–Apr;11(2):137–9

Early-onset benign autosomal-dominant limb-girdle myopathy with contractures (Bethlem myopathy). Tachi N, et al. **Pediatr Neurol** 1989 Jul–Aug;5(4):232–6

Contractures in patients with Williams syndrome. Kaplan P, et al. **Pediatrics** 1989 Nov;84(5):895–9

Familial erosive arthritis associated with camptodactyly. Gigante MC, et al. **Scand J Rheumatol** 1990;19(3):239–44

[The piriformis syndrome—a possible cause of sciatica] Huber HM. **Schweiz Rundsch Med Prax** 1990 Feb 27;79(9):235–6 (Eng. Abstr.) **(Ger)**

[Disability caused by hematogenic osteomyelitis in children] Siagallo PT, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):97–9 (Eng. Abstr.) **(Rus)**

CONGENITAL

Orthopedic aspects of Rett syndrome: a multicenter review. Loder RT, et al. **J Pediatr Orthop** 1989 Sep–Oct; 9(5):557–62

Femoral shortening in correction of congenital knee flexion deformity with popliteal webbing. Saleh M, et al. **J Pediatr Orthop** 1989 Sep–Oct;9(5):609–11

[Diastrophic dysplasia. A congenital syndrome with remarkable changes of the external ear and stridor] Godbersen GS, et al. **HNO** 1990 Jul;38(7):256–8 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Frozen shoulder. Nash P, et al. **Baillieres Clin Rheumatol** 1989 Dec;3(3):551–66 (65 ref.)

Documentation of the first web space angle. Bhattacharya S, et al. **J Hand Surg [Br]** 1989 Aug;14(3):298–300

Sciatic nerve regeneration in the rat. Validity of walking track assessment in the presence of chronic contractures. Dellon AL, et al. **Microsurgery** 1989;10(3):220–5

DRUG THERAPY

Dantrolene sodium in traumatic muscle contracture: double-blind clinical and pharmacological trial. Flacco L, et al. **Clin Ther** 1989 Sep–Oct;11(5):623–32

EPIDEMIOLOGY

Contracture of the shoulder. Nobuhara K, et al. **Clin Orthop** 1990 May;(254):105–10

ETIOLOGY

Rheumatoid changes in the metacarpophalangeal region as a cause of Bunnell's sign. Vainio K. **Ann Rheum Dis** 1967 Jul;26(4):328–31

Severe stenotic scar contracture of the Microvel Hemashield right-sided extracardiac conduit. Angelini GD, et al. **Ann Thorac Surg** 1989 Nov;48(5):714–6

Capsular contracture after breast reconstruction with tissue expansion. Holmes JD. **Br J Plast Surg** 1989 Sep; 42(5):591–4

Neck contracture as a rare complication of cervical soft tissue expansion. Kessler A, et al. **Burns** 1989 Dec;15(6):392–3

Thermal enhancement of radiation-induced leg contracture. Stone HB. **Int J Radiat Oncol Biol Phys** 1990 Mar; 18(3):595–602

"Isolated contracture of the abductor digiti minimi" [letter; comment] Luchetti R. **J Hand Surg [Am]** 1989 Sep; 14(5):919 Comment on: J Hand Surg [Am] 1987 Mar;12(2):290–3.

Management of long standing post burn deformities of hand. Chowdhury SR, et al. **J Indian Med Assoc** 1989 Nov; 87(11):251–3

Capsular contracture after breast reconstruction with silicone-gel and saline-filled implants: a 6-year follow-up. Gylbert L, et al. **Plast Reconstr Surg** 1990 Mar;85(3):373–7

[Retroperitoneal fibrosis presenting with multiple fibrosis, starting with left fingers contracture] Atsumi T, et al. **Nippon Naika Gakkai Zasshi** 1989 Aug;78(8):1168–71 (18 ref.) **(Jpn)**

[Complications in the treatment of femoral shaft fractures] Niemyjski W, et al. **Chir Narzadow Ruchu Ortop Pol** 1989; 54(3):233–6 (Eng. Abstr.) **(Pol)**

GENETICS

[The Pena-Shokeir syndrome] Zeller R, et al. **Gynakol Rundsch** 1989;29(3):148–52 (Eng. Abstr.) **(Ger)**

[X-linked progressive muscular dystrophies with early onset and contractures (review of the literature)] Badalian LO, et al. **Zh Nevropatol Psikhiatr** 1990;90(3):123–8 (52 ref.) **(Rus)**

[Proximal muscular dystrophy with contractures and malignant course: is it a variant of Emery-Dreifuss disease?] Badalian Lo, et al. **Zh Nevropatol Psikhiatr** 1990;90(3):52–6 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Wound contraction following transplantation of microskin autografts with overlaid skin allograft in experimental animals. Fang CH, et al. **Burns** 1990 Jun;16(3):190–2

Comparison of scar contracture with the use of microskin and Chinese-type intermingled skin grafts on rats. Yeh FL, et al. **J Burn Care Rehabil** 1990 May–Jun;11(3):221–3

Ultrastructural correlates of ischaemic contracture during global subtotal ischaemia in the rat heart. Harper IS, et al. **J Exp Pathol (Oxford)** 1990 Apr;71(2):257–68

PHYSIOPATHOLOGY

The natural history of flexion contracture in total knee arthroplasty. A prospective study. Tanzer M, et al. **Clin Orthop** 1989 Nov;(248):129–34

Mechanisms of muscle growth related to muscle contracture in cerebral palsy. O'Dwyer NJ, et al. **Dev Med Child Neurol** 1989 Aug;31(4):543–7 (41 ref.)

Stiffness: a pathophysiologic approach to diagnosis and treatment. Siegler EL, et al. **J Gen Intern Med** 1989 Nov–Dec;4(6):533–40 (29 ref.)

[A method of graphic image of the amplitude of hand movements] Bizhko IP, et al. **Ortop Travmatol Protez** 1990 May;(5):56–8 **(Rus)**

[Evaluation of the functional state of the fingers after their injuries and diseases] L'vov SE. **Ortop Travmatol Protez** 1990 Apr;(4):56–60 **(Rus)**

[Electromyographic examination of patients with cerebral palsy] Umkhanov KhA. **Ortop Travmatol Protez** 1990 Mar; (3):32–7 (Eng. Abstr.) **(Rus)**

[Various clinico-electromyographic indicators in patients with ischemic contracture of the hand and fingers] Usilova SU, et al. **Ortop Travmatol Protez** 1989 Jul;(7):40–1 **(Rus)**

PREVENTION & CONTROL

Amelioration of capsular contracture by motion restriction. Marshall WR. **Ann Plast Surg** 1986 Mar;16(3):211–9

Prophylactic bladder neck incision in the treatment of small benign prostatic hyperplasia. Chiu AW, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;45(1):22–5

Reducing spasticity to control muscle contracture of children with cerebral palsy. Nash J, et al. **Dev Med Child Neurol** 1989 Aug;31(4):471–80

"How do I do it?" The use of prismatic spectacles in patients with severe cervical burns. Orenstein A, et al. **J Burn Care Rehabil** 1990 Mar–Apr;11(2):144–5

Preoperative antibiotics and capsular contracture in augmentation mammaplasty. Gylbert L, et al. **Plast Reconstr Surg** 1990 Aug;86(2):260–7; discussion 268–9

Skin grafting: dermal components in inhibition of wound contraction. Brown D, et al. **South Med J** 1990 Jul; 83(7):789–95

[A method of prevention of secondary retraction of free skin transplants] Dmitriev GI, et al. **Vestn Khir** 1989 May; 142(5):96–7 **(Rus)**

[Prevention and treatment of persistent contractures of the hand after injuries of the ulnar and median nerves] Ovechkin VS, et al. **Vestn Khir** 1990 Feb;144(2):112–3 **(Rus)**

[Prevention of contractures in post-stroke arthropathies] Stoliarova LG, et al. **Zh Nevropatol Psikhiatr** 1989; 89(9):63–5 (Eng. Abstr.) **(Rus)**

REHABILITATION

Serial casting: a method for treating burn contractures. Bennett GB, et al. **J Burn Care Rehabil** 1989 Nov–Dec; 10(6):543–5

Use of serial casting in the management of knee joint contractures in an adolescent with cerebral palsy. Phillips WE, et al. **Phys Ther** 1990 Aug;70(8):521–3

[The use of supersonic-frequency currents in the rehabilitation of patients with postneuritis contractures of the mimetic muscles] Lobzin VS, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr;(2):60 **(Rus)**

SURGERY

Surgery for adduction contracture of the thumb after burn. Dmitriyev GI, et al. **Acta Chir Plast** 1989;31(4):236–42

Treatment of cervical burn contracture with two fasciocutaneous flaps. Staub S, et al. **Ann Plast Surg** 1986 Oct;17(4):350–2

The multiple Y-V plasty in linear burn scar contracture release. Cooper MA. **Br J Plast Surg** 1990 Mar;43(2):145–9

Facial dysmorphology in the neglected paediatric head and neck burn. Katsaros J, et al. **Br J Plast Surg** 1990 Mar; 43(2):232–5

V-Y advancement flap out of an existing flap. Thatte RL, et al. **Br J Plast Surg** 1990 May;43(3):379–80

Fasciocutaneous flaps for burn contractures of the axilla. Tiwari P, et al. **Burns** 1990 Apr;16(2):150–2

Experience of reverse medial arm flaps in the reconstruction of burned elbow scar contractures. Yang JY. **Burns** 1989 Oct;15(5):330–4

The Judet quadricepsplasty for management of severe posttraumatic extension contracture of the knee. A report of a bilateral case and review of the literature. Warner JJ. **Clin Orthop** 1990 Jul;(256):169–73 (17 ref.)

Upper extremity burn contractures. Kurtzman LC, et al. **Hand Clin** 1990 May;6(2):261–79 (56 ref.)

Post-injective quadriceps contracture. Valdiserri L, et al. **Ital J Orthop Traumatol** 1989 Sep;15(3):267–72

Post-traumatic contracture of the elbow. Operative treatment, including distraction arthroplasty. Morrey BF. **J Bone Joint Surg [Am]** 1990 Apr;72(4):601–18

Classification and treatment of postburn metacarpophalangeal joint extension contractures in children. Graham TJ, et al. **J Hand Surg [Am]** 1990 May;15(3):450–6

One-stage reconstruction of the postburn nailfold contracture. Achauer BM, et al. **Plast Reconstr Surg** 1990 Jun;85(6):937–40; discussion 941

Application of the two-flap method for nasal alar contracture. Iwahira Y, et al. **Plast Reconstr Surg** 1990 Jul; 86(1):133–7

Treatment of breast contractures with open capsulotomy and replacement of gel prostheses with polyurethane-covered implants. Melmed EP. **Plast Reconstr Surg** 1990 Aug; 86(2):270–4

Neodymium:YAG laser treatment of postoperative bladder neck contractures. Salant RL, et al. **Urology** 1990 May; 35(5):385–7

[The treatment of postburn axillary contracture] Chen B. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Mar;3(1):16–8 **(Chi)**

[Transplantation of a platysma musculocutaneous flap for burn wounds and scar contractures of the occipito-cervical region] Huan XY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):206–7, 239 (Eng. Abstr.) **(Chi)**

[Treatment of axillary burn scar contracture with a parascapular flap and lateral thoracic island flap] Huang XY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):122–4, 160 (Eng. Abstr.) **(Chi)**

[Intrinsic muscle contracture of the first intercarpal space of the hand] Liu ZZ. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):27–9 **(Chi)**

[Correction of burn scar contracture of joints by traction] Luo JH. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):271–2, 319 (Eng. Abstr.) **(Chi)**

[The use of an anterior cervico-thoracic pedicle flap for the treatment of scar contracture of the neck] Wang EY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):253–4, 317 (Eng. Abstr.) **(Chi)**

[Surgical treatment of scar contracture of a burned hand] Wang JD. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):276–8 **(Chi)**

[Relaxation and repair of axillary scar contracture and musculocutaneous nerve injury] Yang YX. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Sep;5(3):164–6, 235 (Eng. Abstr.) **(Chi)**

[The use of an indigenous tissue expander in the repair of scar contracture] Yu BL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Dec;4(4):249–51, 316 (Eng. Abstr.) **(Chi)**

[Surgical treatment of patients with juvenile cerebral palsy at the orthopedic clinic of the Charles University Medical School in Prague-Motol] Schejbalová A, et al. **Acta Chir Orthop Traumatol Cech** 1990 Feb;57(1):27–33 (Eng. Abstr.) **(Cze)**

[The surgical treatment of knee joint extensor muscle contractures] Falkiewisz C, et al. **Beitr Orthop Traumatol** 1990 Apr;37(4):225–9 (Eng. Abstr.) **(Ger)**

[Radial island flap for the reconstruction of the 1st commissure] Noever G, et al. **Handchir Mikrochir Plast Chir** 1990 May;22(3):145–8 (Eng. Abstr.) **(Ger)**

[Late results of Eggers' operation in spastic contracture of the knee] Szabó G, et al. **Magy Traumatol Orthop Helyreallito Sebesz** 1989; 32(4):267–73 (Eng. Abstr.) **(Hun)**

[Role of local flaps in the treatment of interdigital commissure contractures] Innocenti M, et al. **Chir Organi Mov** 1989 Jan–Jun;74(1–2):63–8 (Eng. Abstr.) **(Ita)**

[Reconstruction of the first interdigital commissure with distal flaps] Innocenti M, et al. **Chir Organi Mov** 1989 Jan-Jun;74(1-2):69-73 (11 ref.) (Eng. Abstr.) (Ita)

[Use of surgical flaps for plastic surgery in posterior adduction cicatricial contracture of the thumb] Grishkevich VM, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):33-7 (Eng. Abstr.) (Rus)

[Surgical treatment of post-burn deformities of the neck] Iudenich AA, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):93-6 (Eng. Abstr.) (Rus)

[Treatment of adduction cicatricial contracture of the thumb] Korshunov VF, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):25-8 (Eng. Abstr.) (Rus)

[Treatment of ununited fractures and pseudarthrosis of the distal end of the femur complicated by extension contracture of the knee joint] Nuzhdin VI, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):45-7 (Rus)

[Complications after surgical treatment of post-burn cicatricial deformities in children] Vozdvizhenskiĭ SI, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):107-10 (Rus)

[Value and place of tenolysis of the flexors of the fingers in the complex treatment of tenogenic contractures] Kolontaĭ IuIu, et al. **Ortop Travmatol Protez** 1989 Jul;(7):30-3 (Eng. Abstr.) (Rus)

[Reconstructive surgery in post-traumatic contractures of the knee joint] Kornilov NV, et al. **Ortop Travmatol Protez** 1989 Aug;(8):15-8 (Eng. Abstr.) (Rus)

[Treatment of postburn cicatricial deformations and contractures of the neck] Iudenich AA, et al. **Sov Med** 1989;(7):34-8 (Eng. Abstr.) (Rus)

[Correction of post-burn cicatricial deformities and contractures of the neck by free autologous transplantation of the tissues] Iudenin AA, et al. **Vestn Khir** 1990 Mar; 144(3):101-3 (Rus)

[Use of siloxane films in the treatment of contracture of the knee joint] Kornilov NV, et al. **Vestn Khir** 1989 Nov; 143(11):48-50 (Eng. Abstr.) (Rus)

THERAPY

Triggering of the thumb with de Quervain's stenosing tendovaginitis. Witczak JW, et al. **J Hand Surg [Am]** 1990 Mar;15(2):265-8

[The use of a thermoplastic splint in the prevention and correction of post-burn deformities] Tang XX. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):115-6, 156 (Eng. Abstr.) (Chi)

[Treatment of elbow contracture] Chien SH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Aug; 5(8):465-70 (Eng. Abstr.) (Chi)

[A method of correction of posterior dislocation of the fingers in post-burn deformity of the hand] Dmitriev GI, et al. **Vestn Khir** 1989 Jul;143(7):118-9 (Rus)

VETERINARY

Fibrosis and contracture of the semitendinosus muscle in a dog. Clarke RE. **Aust Vet J** 1989 Aug;66(8):259-61

Contracture test and histologic and histochemical analyses of muscle biopsy specimens from horses with exertional rhabdomyolysis. Hildebrand SV, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1077-83

CONTRAST MEDIA

see related
EXTRAVASATION OF DIAGNOSTIC AND THERAPEUTIC MATERIALS

Signal alterations, artifacts and image distortion induced by a superparamagnetic contrast medium. A phantom study in a 0.3 tesla MR system. Holtås S, et al. **Acta Radiol** 1990 Mar;31(2):213-6

Clinical trials with a new iodinated lipid emulsion for computed tomography of the liver. Ivancev K, et al. **Acta Radiol** 1989 Sep-Oct;30(5):449-57

Oral superparamagnetic particles for magnetic resonance imaging. Effect in plain and viscous aqueous suspensions. Lönnemark M, et al. **Acta Radiol** 1990 May;31(3):303-7

Iopentol compared with iohexol in carotid angiography. A double blind crossover test of a new non-ionic contrast medium. Nakstad PH, et al. **Acta Radiol** 1990 Mar; 31(2):221-2

Blood clot formation in angiographic catheters. In vitro tests with various contrast media. Raininko R, et al. **Acta Radiol** 1990 Mar;31(2):217-20

Changes in complement components after intravascular application of contrast media. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247B:585-9

Gd-DTPA-enhanced MR imaging of cochlear schwannoma. Brogan M, et al. **AJNR** 1990 Mar-Apr;11(2):407-8

Gd-DTPA enhancement in CNS extramedullary hematopoiesis. Buetow PC, et al. **AJNR** 1990 Mar-Apr; 11(2):411-2

Contrast-enhanced MR imaging of tuberculous pachymeningitis cranialis hypertrophica: case report. Callebaut J, et al. **AJNR** 1990 Jul-Aug;11(4):821-2

Dyke Award. Europium-DTPA: a gadolinium analogue traceable by fluorescence microscopy. Elster AD, et al. **AJNR** 1989 Nov-Dec;10(6):1137-44

MR imaging of Sturge-Weber syndrome: role of gadopentetate dimeglumine and gradient-echo techniques. Elster AD, et al. **AJNR** 1990 Jul-Aug;11(4):685-9

MR imaging of optic nerve lesions: value of gadopentetate dimeglumine and fat-suppression technique. Hendrix LE, et al. **AJNR** 1990 Jul-Aug;11(4):749-54

Benign lumbar arachnoiditis: MR imaging with gadopentetate dimeglumine. Johnson CE, et al. **AJNR** 1990 Jul-Aug; 11(4):763-70

Gd-DOTA-enhanced MR imaging in two cases of Sturge-Weber syndrome. Lipski S, et al. **AJNR** 1990 Jul-Aug;11(4):690-2

Gd-DTPA-enhanced MR imaging of leptomeningeal spread of primary intracranial CNS tumor in children. Rippe DJ, et al. **AJNR** 1990 Mar-Apr;11(2):329-32

Gadopentetate-dimeglumine-enhanced MR imaging of gliomatosis cerebri: appearance mimicking leptomeningeal tumor dissemination. Rippe DJ, et al. **AJNR** 1990 Jul-Aug; 11(4):800-1

Recurrent medulloblastoma: frequency of tumor enhancement on Gd-DTPA MR imaging. Rollins N, et al. **AJNR** 1990 May;11(3):583-7

MR imaging of the postoperative lumbar spine: assessment with gadopentetate dimeglumine. Ross JS, et al. **AJNR** 1990 Jul-Aug;11(4):771-6

Detection of brain metastases: comparison of contrast-enhanced MR with unenhanced MR and enhanced CT. Sze G, et al. **AJNR** 1990 Jul-Aug; 11(4):785-91

Contrast-enhanced MR imaging of the facial nerve in 11 patients with Bell's palsy. Tien R, et al. **AJNR** 1990 Jul-Aug;11(4):735-41

Herpes trigeminal neuritis and rhombencephalitis on Gd-DTPA-enhanced MR imaging. Tien RD, et al. **AJNR** 1990 Mar-Apr;11(2):413-4

Demonstration of the area postrema with contrast-enhanced MR. Williams KD, et al. **AJNR** 1990 Jul-Aug;11(4):733-4

Current use of low-osmolality contrast agents: results of a survey. Bettmann MA, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):1079-83

Ionic vs nonionic contrast media: a proposal [letter] Lasser EC, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):651-2

Preston M. Hickey memorial lecture. Ionic and nonionic iodinated contrast media: evolution and strategies for use. McClennan BL. **AJR Am J Roentgenol** 1990 Aug; 155(2):225-33 (38 ref.)

MR angiography with gadopentetate dimeglumine-polylysine: evaluation in rabbits. Marchal G, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):407-11

Contrast-enhanced CT of the liver and spleen: comparison of ionic and nonionic contrast agents. Nelson RC, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):973-6

Recurrent medulloblastoma: frequency of tumor enhancement on Gd-DTPA MR imaging. Rollins N, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):153-7

Assessment of extradural degenerative disease with Gd-DTPA-enhanced MR imaging: correlation with surgical and pathologic findings. Ross JS, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):151-7

Tears of the anulus fibrosus: assessment with Gd-DTPA-enhanced MR imaging. Ross JS, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):159-62

Retention of contrast material in focal nodular hyperplasia of the liver on delayed CT: another case [letter; comment] Stephens DH, et al. **AJR Am J Roentgenol** 1990 Feb; 154(2):422-3 Comment on: AJR Am J Roentgenol 1989 Oct;153(4):885-6.

MR imaging of the cranial meninges with emphasis on contrast enhancement and meningeal carcinomatosis. Sze G, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):1039-49

Dynamic spin-echo imaging with Gd-DTPA: value in the differentiation of hepatic tumors. Van Beers B, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):515-9

Tumors of the nasopharynx and adjacent areas: MR imaging with Gd-DTPA. Vogl T, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):585-92

Value of gadolinium-diethylene-triamine pentaacetic acid dynamics in magnetic resonance imaging of acute myocardial infarction with occluded and reperfused coronary arteries after thrombolysis. Van Rossum AC, et al. **Am J Cardiol** 1990 Apr 1;65(13):845-51

Rapid MR imaging of renal perfusion: a comparative study of GdDTPA, albumin-(GdDTPA), and magnetite. Daly PF, et al. **Am J Physiol Imaging** 1989;4(4):165-74

Contrast echocardiography: effects of microbubbles on coronary blood flow and left ventricular hemodynamics. Silverman PR, et al. **Am J Physiol Imaging** 1989;4(4):158-64

Contrast echocardiography: a method to visualize changes in regional myocardial perfusion in the dog model for CABG surgery [see comments] Aronson S, et al. **Anesthesiology** 1990 Feb;72(2):295-301 Comment in: Anesthesiology 1990 Feb;72(2):219-21.

Intraoperative contrast echocardiography: a direct approach to measure regional myocardial perfusion [comment] Smith PK, et al. **Anesthesiology** 1990 Feb;72(2):219-21 Comment on: Anesthesiology 1990 Feb;72(2):295-301.

Gadolinium. The new gold standard for diagnosing cerebellopontine angle tumors. Sidman JD, et al. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1244-7

Ionic and non-ionic contrast media: current practice in the major hospitals of Australia and New Zealand. Palmer FJ. **Australas Radiol** 1989 Nov;33(4):351

Factors affecting penetration of retrograde coronary venous injections into normal and ischemic canine myocardium: assessment by contrast echocardiography and digital angiography. Punzengruber C, et al. **Basic Res Cardiol** 1990 Jan-Feb;85(1):21-32

Comparison of spin echo T1-weighted and FLASH 90 degrees gadolinium-enhanced magnetic resonance imaging in the detection of cerebral metastases. Cherryman G, et al. **Br J Radiol** 1990 Sep;63(753):712-5

Comparison of iopromide and iopamidol in left ventricular angiography and in coronary angiography. Dyet JF, et al. **Br J Radiol** 1990 Sep;63(753):700-5

A sweet solution to a contrast problem. Foulner D. **Br J Radiol** 1990 Mar;63(747):219-20

Bacterial contamination of contrast media stored after opening. Lisle D, et al. **Br J Radiol** 1990 Jul;63(751):532-4

Gadolinium-enhanced magnetic resonance imaging of spinal tumours. Rothwell CI, et al. **Br J Radiol** 1989 Dec; 62(744):1067-74

A magnetic resonance imaging contrast agent differentiates between the vascular properties of fetal striatal tissue transplants and gliomas in rat brain in vivo. Norman AB, et al. **Brain Res** 1989 Nov 27;503(1):156-9

The choice of contrast agents in the cardiac catheterization laboratory. Morton BC. **Can J Cardiol** 1989 Nov-Dec; 5(8):379-81

Nonionic contrast media [letter] Doris CI. **Can Med Assoc J** 1989 Oct 1;141(7):652

Comparison of Hexabrix 320 and Hexabrix 250 in aortoperipheral arteriography: towards cheaper low osmolar contrast media? Joyce PF, et al. **Cardiovasc Intervent Radiol** 1989 May-Jun;12(3):161-3

Intravenous urography with a new non-ionic contrast media in a clinical phase III study: iopentol vs iohexol. Rasmussen F, et al. **Clin Radiol** 1990 Jan;41(1):37-41

A double-blind comparison of iopromide and iopamidol in intravenous urography. Renwick IG, et al. **Clin Radiol** 1990 Jun;41(6):405-7

Meglumine iocarmate (Dimer-X) ventriculography. Van Dellen JR, et al. **Clin Radiol** 1973 Oct;24(4):449-52

A double blind clinical study comparing the safety, tolerance and efficacy of ioversol 240 and iohexol 240 (Omnipaque 240) in ascending venography. Wilkins RA, et al. **Clin Radiol** 1990 Apr;41(4):268-71

Radio-opaque liposomes for the improved visualisation of focal liver disease by computerized tomography. Henze A, et al. **Comput Med Imaging Graph** 1989 Nov-Dec; 13(6):455-62

A subtraction technique comparing pre- and post-contrast medium enhancement CT scans. Huang HK, et al. **Comput Tomogr** 1977;1(3):267-71

Magnetic resonance angiography, angiographic contrast media, and digital angiography. Olcott EW. **Curr Opin Radiol** 1990 Apr;2(2):252-8 (26 ref.)

Managing costly contrast agents. MacEwan DW, et al. **Dimens Health Serv** 1990 Mar;67(2):15-7

Gastrointestinal contrast studies [letter; comment] Shocket E. **Dis Colon Rectum** 1990 Jun;33(6):539-40 Comment on: Dis Colon Rectum 1990 Jan;33(1):56-64.

Peculiar contrast medium incident. Maurer HJ. **Eur J Radiol** 1989 Aug;9(3):133

Gadolinium-enhanced magnetic resonance imaging in acute myocardial infarction. van Dijkman PR, et al. **Eur J Radiol** 1990 Jul-Aug;11(1):1-9

Comparison of Telebrix Gastro and Gastrografin in abdominal computed tomography. van Waes PF, et al. **Eur J Radiol** 1989 Aug;9(3):179-81

Comparison between 1-hour and 24-hour follow-up radiographs in hysterosalpingography using oil based contrast media. Reshef E, et al. **Fertil Steril** 1989 Nov; 52(5):753-5

Computed tomography of the rectum with water as contrast agent. Baert AL, et al. **Gastrointest Radiol** 1989 Fall; 14(4):345-8

Experimental trials with Gd(DO3A)—a nonionic magnetic resonance contrast agent. Runge VM, et al. **Int J Rad Appl Instrum [B]** 1989;16(6):561-7

First International Ioversol Symposium: A Clinical Summary. Scottsdale, Arizona, February 23-25, 1989. **Invest Radiol** 1989 Jun;24 Suppl 1:S1-76

Ioversol clinical safety summary. Benamor M, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S67-72

Clinical experience with ioversol for angiography. Bettmann MA. **Invest Radiol** 1989 Jun;24 Suppl 1:S61-6

Biodistribution and excretion of 125I ioversol in conscious dogs. Coveney JR, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S23-7

A double-blind comparative study of the safety, tolerability, and efficacy of ioversol and iohexol in peripheral and visceral arteriography. Cutcliff WB, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S56-9

AUR memorial award—1988. MRI enhancement of perfused tissues using chromium labeled red blood cells as an intravascular contrast agent. Eisenberg AD, et al. **Invest Radiol** 1989 Oct;24(10):742-53

Magnetic starch microspheres, efficacy and elimination. A new organ-specific contrast agent for magnetic resonance imaging. Fahlvik AK, et al. **Invest Radiol** 1990 Feb; 25(2):113-20

Fetal necrogram: a new technique. Experience with 12,000 contrast examinations. Hawass NE, et al. **Invest Radiol** 1989 Sep;24(9):711-20

Ioversol 320: a new nonionic, water-soluble contrast medium for body computed tomography clinical trial. Kopecky KK, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S33-4

Dynamic digital subtraction evaluation of regional

pulmonary ventilation with nonradioactive xenon. Lam KL, et al. **Invest Radiol** 1990 Jun;25(6):728–35
Gd–DOTA. Pharmacokinetics and tolerability after intravenous injection into healthy volunteers. Le Mignon MM, et al. **Invest Radiol** 1990 Aug;25(8):933–7
Computed body tomography with a new nonionic contrast agent. Comparison of ioversol with sodium/meglumine diatrizoate. McClennan BL, et al. **Invest Radiol** 1989 Jun; 24 Suppl 1:S35–8
Clinical summary of initial intravenous administration of ioversol. McClennan BL. **Invest Radiol** 1989 Jun;24 Suppl 1:S43–6
In vivo estimation of perfluorooctylbromide concentration in tissues. Mattrey RF, et al. **Invest Radiol** 1990 Aug; 25(8):915–21
Efficacy, safety, and tolerability of ioversol in intra-arterial digital subtraction angiography. Miller FJ, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S52–4
Liposome encapsulated MnCl2 as a liver specific contrast agent for magnetic resonance imaging. Niesman MR, et al. **Invest Radiol** 1990 May;25(5):545–51
Acute and subacute toxicity studies of ioversol in experimental animals. Ralston WH, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S2–9
Hemodynamic effects of ioversol in the dog and rat. Ralston WH, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S10–5
Reproductive, developmental, and genetic toxicology of ioversol. Ralston WH, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S16–22
A double-blind study comparing the safety, tolerability, and efficacy of ioversol 320 and iopamidol-300 in cerebral angiography. Ringel K, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S48–51
A randomized double-blind trial of ioversol and iopamidol in contrast-enhanced computed body tomography. Sage MR, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S39–41
Clinical experience with ioversol 320 in cranial computed tomographic scanning. Sartor K, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S29–32
A pharmacokinetic and MRI study of unilamellar gadolinium-, manganese-, and iron-DTPA-stearate liposomes as organ-specific contrast agents. Schwendener RA, et al. **Invest Radiol** 1990 Aug;25(8):922–32
Safety and efficacy of a new transpulmonary ultrasound contrast agent: initial multicenter clinical results. Feinstein SB, et al. **J Am Coll Cardiol** 1990 Aug;16(2):316–24
Sonicated echocardiographic contrast agents: reproducibility studies. Feinstein SB, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):125–31
Albunex: a safe and effective commercially produced agent for myocardial contrast echocardiography. Keller MW, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):48–52
Inferior vena cava tumor thrombus: demonstration by Gd-DTPA enhanced MR. Gehl HB, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):479–81
Differentiation of hepatic hemangiomas from metastases by dynamic contrast-enhanced MR imaging. Hamm B, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):205–16
Gd-DTPA enhanced MR imaging of the breast in patients with postoperative scarring and silicon implants. Heywang SH, et al. **J Comput Assist Tomogr** 1990 May–Jun; 14(3):348–56
Gadolinium–DOTA enhanced fast imaging of liver tumors at 1.5 T. Marchal G, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):217–22
Gadolinium enhanced MR imaging of vascular stents. Matsumoto AH, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):357–61
The cocaine body-packer syndrome: evaluation of a method of contrast study of the bowel. Marc B, et al. **J Forensic Sci** 1990 Mar;35(2):345–55
Intraoperative perfusion contrast echocardiography. Initial experience during coronary artery bypass grafting. Kabas JS, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):536–42
On the application of ultrasonic contrast agents for blood flowmetry and assessment of cardiac perfusion. Bleeker H, et al. **J Ultrasound Med** 1990 Aug;9(8):461–71
Clinical applications of gadolinium–DTPA in MRI. de Roos A, et al. **Magn Reson Annu** 1988;:113–45 (35 ref.)
Relaxometry of magnetic resonance imaging contrast agents. Koenig SH, et al. **Magn Reson Annu** 1987;:263–86 (42 ref.)
Contrast agents for magnetic resonance imaging. Wolf GL, et al. **Magn Reson Annu** 1985;:231–66 (10 ref.)
Liposomal Gd-DTPA: effect of encapsulation on enhancement of hepatoma model by MRI. Unger EC, et al. **Magn Reson Imaging** 1989 Jul–Aug;7(4):417–23
Measurement of tissue blood flow using intravascular relaxation agents and magnetic resonance imaging. Gore JC, et al. **Magn Reson Med** 1990 May;14(2):242–8
Assessment of a superparamagnetic iron oxide (AMI-25) as a brain contrast agent. Kent TA, et al. **Magn Reson Med** 1990 Mar;13(3):434–43
Perfusion imaging with NMR contrast agents. Rosen BR, et al. **Magn Reson Med** 1990 May;14(2):249–65
Signal loss induced by superparamagnetic iron oxide particles in NMR spin-echo images: the role of diffusion. Rozneman Y, et al. **Magn Reson Med** 1990 Apr;14(1):31–9
Magnetic resonance contrast agents in the evaluation of the musculoskeletal system. Bloem JL, et al. **Magn Reson Q** 1990 Apr;6(2):136–63 (43 ref.)
Contrast-enhanced magnetic resonance imaging of the abdomen and pelvis. Hamm B, et al. **Magn Reson Q** 1990 Apr;6(2):108–35 (96 ref.)
Magnetic resonance contrast media: principles and progress. Lauffer RB. **Magn Reson Q** 1990 Apr;6(2):65–84 (69 ref.)
The role of gadolinium–diethylenetriaminepentaacetic acid in the evaluation of the central nervous system. Runge VM, et al. **Magn Reson Q** 1990 Apr;6(2):85–107 (58 ref.)
Low-osmolality contrast media: a current perspective [see comments] King BF, et al. **Mayo Clin Proc** 1989 Aug; 64(8):976–85 (57 ref.) Comment in: Mayo Clin Proc 1990 Apr;65(4):603–4.
Risk reduction from low osmolality contrast media. What do patients think it is worth? Appel LJ, et al. **Med Care** 1990 Apr;28(4):324–37
Heterogeneity of blood-brain barrier changes in multiple sclerosis: an MRI study with gadolinium-DTPA enhancement. Kermode AG, et al. **Neurology** 1990 Feb; 40(2):229–35
Gadolinium-DTPA enhanced magnetic resonance imaging in acoustic neuroma diagnosis and management. Jackler RK, et al. **Otolaryngol Head Neck Surg** 1990 Jun; 102(6):670–7
Gadolinium-enhanced magnetic resonance imaging in facial nerve lesions. Millen SJ, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):26–33
Receptor affinity profile for evaluation of MRI contrast media tolerability. Corsico N, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:73–4
Gd DTPA: a review of clinical indications in central nervous system magnetic resonance imaging. Runge VM, et al. **Radiographics** 1989 Sep;9(5):929–58 (54 ref.)
Non-ionic contrast media—past, present and future. Oxaal ME. **Radiol Diagn (Berl)** 1989;30(3):311–4
Gadolinium-enhanced MR angiography. Creasy JL, et al. **Radiology** 1990 Apr;175(1):280–3
Pseudolayering of Gd-DTPA in the urinary bladder. Elster AD, et al. **Radiology** 1990 Feb;174(2):379–81
Appropriate use of names for MR contrast media [letter] Goldstein HA. **Radiology** 1990 Mar;174(3 Pt 1):897
Clinical application of superparamagnetic iron oxide to MR imaging of tissue perfusion in vascular liver tumors. Hahn PF, et al. **Radiology** 1990 Feb;174(2):361–6
Use of magnetite particles as a contrast agent for MR imaging of the liver. Kawamura Y, et al. **Radiology** 1990 Feb; 174(2):357–60
Gadopentetate dimeglumine: observations on the clinical research process [editorial; comment] Kieffer SA. **Radiology** 1990 Jan;174(1):7–8 Comment on: Radiology 1990 Jan;174(1):17–23.
Dacryocystography: comparison of water-soluble and oil-based contrast agents. Munk PL, et al. **Radiology** 1989 Dec;173(3):827–30
Breast disease: tissue characterization with Gd-DTPA enhancement profiles. Stack JP, et al. **Radiology** 1990 Feb; 174(2):491–4
Ultrasmall superparamagnetic iron oxide: characterization of a new class of contrast agents for MR imaging. Weissleder R, et al. **Radiology** 1990 May;175(2):489–93
Ultrasmall superparamagnetic iron oxide: an intravenous contrast agent for assessing lymph nodes with MR imaging. Weissleder R, et al. **Radiology** 1990 May;175(2):494–8
Gadolinium-DTPA in rheumatoid arthritis and related diseases: first results with dynamic magnetic resonance imaging. Reiser MF, et al. **Skeletal Radiol** 1989;18(8):591–7
Rat liver model for testing intraoperative echo contrast sonography. el Mouaaouy A, et al. **Surg Endosc** 1990; 4(2):114–7
CT scan of gastrointestinal tract using a new calcium-based contrast medium (Cal Scan) (17.03.89). Zouaoui A, et al. **Surg Radiol Anat** 1989;11(3):251
Contrast-enhanced intraoperative ultrasonography of small hepatocellular carcinomas. Takada T, et al. **Surgery** 1990 May;107(5):528–32
Suitability of and tolerance to Iotrolan 300 in bronchography via the fibreoptic bronchoscope. Morcos SK, et al. **Thorax** 1990 Aug;45(8):628–9
Contrast agents in diagnostic ultrasound [letter] Ophir J, et al. **Ultrasound Med Biol** 1990;16(2):209
Ionic versus nonionic contrast media: safety, tolerance, and rationale for use. McClennan BL. **Urol Radiol** 1989; 11(4):200–2 (20 ref.)
[The pathomorphological changes in the pleura of rabbits with artificial pneumothorax and uropolin pleurography] Dakov I, et al. **Eksp Med Morfol** 1990;29(1):22–6 (Eng. Abstr.) **(Bul)**
[Boerhaave syndrome (letter)] **Ned Tijdschr Geneeskd** 1989 Aug 12;133(32):1613–5 **(Dut)**
[Super-paramagnetic iron oxide: an MRI contrast media for the reticuloendothelial system] Gandon Y, et al. **Ann Radiol (Paris)** 1989;32(4):267–72 (Eng. Abstr.) **(Fre)**
[CO2 angiography: development and trial of an animal experimental gas dosage device] Krasny R, et al. **Biomed Tech (Berlin)** 1990 Apr;35(4):72–7 (Eng. Abstr.) **(Ger)**
[Is Echovist superior to Gelifundol as an echo contrast medium?] Leyh R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:121–2 **(Ger)**
[Use of a contrast medium containing gadolinium in angiography] Onnasch DG, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:181–3 **(Ger)**
[A microcomputer system for video-intensitometry evaluation of contrast echocardiograms for evaluating myocardial perfusion in real time] Zotz R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:123–4 **(Ger)**
[Contrast media for nuclear magnetic resonance tomography] Schwing C. **Digitale Bilddiagn** 1990 Mar;10(1):36–8 **(Ger)**
[Magnetic resonance tomography with gadolinium DTPA in multiple sclerosis. Findings in initial manifestation and later disease stages] Rüttinger H, et al. **Nervenarzt** 1990 Jun;61(6):356–60 **(Ger)**
[The use of gadolinium-DTPA in inflammatory bone diseases] Müller-Miny H, et al. **Radiol Diagn (Berl)** 1989; 30(4):491–5 (Eng. Abstr.) **(Ger)**
[Experiences with the use of ioxithalamate (Telebrix)] Pokorny L, et al. **Radiol Diagn (Berl)** 1990;31(2):145–51 (Eng. Abstr.) **(Ger)**
[Contrast echography of uterine tumors using albumin-carbon dioxide-foam] Rizaev MN, et al. **Radiol Diagn (Berl)** 1990;31(1):81–5 (Eng. Abstr.) **(Ger)**
[Magnetic resonance tomography of adrenal gland tumors. Detection and differentiation using fast gradient echo sequences and dynamic contrast media studies] Krestin GP, et al. **Radiologe** 1990 May;30(5):228–34 (Eng. Abstr.) **(Ger)**
[The basis for ultrasonic phenomena during the injection of x-ray contrast media] Staudacher T, et al. **Radiologe** 1990 Mar;30(3):124–9 (Eng. Abstr.) **(Ger)**
[The computed tomography of colorectal tumors with water as the contrast medium] Gaa J, et al. **ROFO** 1990 Jun; 152(6):723–6 (Eng. Abstr.) **(Ger)**
[Comparative studies on the radioactivity of bone cements containing x-ray contrast media and of the contrast media] Hopf C, et al. **ROFO** 1990 May;152(5):601–2 (Eng. Abstr.) **(Ger)**
[MRT using gadolinium-DTPA in spinal intradural space-occupying lesions] Kahn T, et al. **ROFO** 1989 Nov; 151(5):602–10 (Eng. Abstr.) **(Ger)**
[MRT using Gd-DTPA in the diagnosis of tumor and pseudotumor intracardiac masses] Schratter M, et al. **ROFO** 1990 Jan;152(1):16–22 (Eng. Abstr.) **(Ger)**
[Optimization of gadolinium-DTPA dose: an inter-individual study of patients with intracranial tumors] Schubeus P, et al. **ROFO** 1990 Jul;153(1):29–35 (Eng. Abstr.) **(Ger)**
[3D-MR-angiography using Gd-DTPA] Seiderer M, et al. **ROFO** 1990 Mar;152(3):327–32 (Eng. Abstr.) **(Ger)**
[MRT of tumors of the larynx and hypopharynx using Gd-DTPA: clinical value] Vogl T, et al. **ROFO** 1990 Apr; 152(4):405–11 (Eng. Abstr.) **(Ger)**
[Contrast medium assisted nuclear magnetic resonance tomography. Signal intensity of gliomatous tumors] Agnoli AL, et al. **Rontgenblatter** 1990 Aug;43(8):335–40 (Eng. Abstr.) **(Ger)**
[Comparative contrast media studies using conventional film-screen systems and digital luminescence radiography] Christiansen GR, et al. **Rontgenblatter** 1990 Apr; 43(4):157–62 (Eng. Abstr.) **(Ger)**
[Magnetic resonance tomography using gadolinium-DTPA in the diskectomy syndrome—a reliable method of identifying a recurrent prolapse in scar tissue] Majewski A, et al. **Rontgenblatter** 1989 Dec;42(12):499–504 (Eng. Abstr.) **(Ger)**
[Gadolinium-DTPA in magnetic resonance tomography. Clinical use—indications] Prayer L, et al. **Rontgenblatter** 1989 Dec;42(12):493–8 (Eng. Abstr.) **(Ger)**
[Effect of renovascular roentgen contrast media on the function of the healthy kidney—an individual comparison] Zapf S, et al. **Rontgenblatter** 1989 Oct;42(10):424–7 (Eng. Abstr.) **(Ger)**
[Barium sulfate-gelatin spheres for the diagnosis of special pharyngo-esophageal problems] Hannig C, et al. **Rontgenpraxis** 1990 Jan;43(1):15–9 **(Ger)**
[Dynamic contrast medium-aided ultrasound cavography in patients with a caval filter] Vorwerk D, et al. **Ultraschall Med** 1990 Jun;11(3):146–9 (Eng. Abstr.) **(Ger)**
[Can echo-contrast enhancing substances improve imaging of the superficial femoral artery in the adductor canal using angiodynography?] Hendrickx P, et al. **Vasa Suppl** 1989; 27:363–5 **(Ger)**
[Clinical aspects of lymphedema and contrast medium lymphography] Stöberl C, et al. **Z Hautkr** 1990 Feb; 65(2):139–42, 145–6 (19 ref.) (Eng. Abstr.) **(Ger)**
[Effects of roentgen contrast media containing barium sulfate on enterocutaneous fistulas] Pelster FW, et al. **Zentralbl Chir** 1989;114(20):1355–62 (Eng. Abstr.) **(Ger)**
[A simple method for separating fresh and cryopreserved human sperm using dextran-visotrast density gradient centrifugation] Glander HJ, et al. **Zentralbl Gynakol** 1990; 112(2):91–7 (Eng. Abstr.) **(Ger)**
[Double-contrast arthrography of the knee in traumatic capsular-ligamentous lesions. A critical review] Lupi L, et al. **Radiol Med (Torino)** 1990 May;79(5):502–6 (Eng. Abstr.) **(Ita)**
[A comparative study between Gd-BOPTA, a biliary excretion contrast medium, and Gd-DTPA in the magnetic resonance imaging of the rat liver] Patrizio G, et al. **Radiol Med (Torino)** 1990 May;79(5):458–62 (Eng. Abstr.) **(Ita)**
[Discrepancies between wall motion abnormalities and regional myocardial perfusion in patients with myocardial infarction: evaluation by myocardial contrast echocardiography] Lim YJ, et al. **J Cardiol** 1989 Jun; 19(2):343–50 (Eng. Abstr.) **(Jpn)**
[New oral contrast material for gastrointestinal MR

examination—green tea mixed with sodium alginate] Hasegawa M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Jan 25; 50(1):79–80 (Eng. Abstr.) **(Jpn)**

[Mn–TPPS4; a potential MRI contrast agent for localizing the normal aortic wall in rabbits] Kim SW, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Feb 25; 50(2):192–4 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance imaging of bladder tumors: superiority of serial "Fast SE" assisted by Gd–DTPA in tumor staging] Tanimoto A, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Dec 25; 49(12):1552–66 (Eng. Abstr.) **(Jpn)**

[Recent advances in contrast media—low-osmolarity contrast media] Kuramoto K, et al. **Nippon Rinsho** 1989 Dec;47(12):2824–30 (20 ref.) **(Jpn)**

[A method for the integrated echo and x-ray contrast study of the uterus] Dusmuratov AM, et al. **Med Radiol (Mosk)** 1990 Jul;35(7):50–1 **(Rus)**

[Echo contrast study of myocardial perfusion] At'kov OIu, et al. **Ter Arkh** 1990;62(4):148–51 (58 ref.) **(Rus)**

ADMINISTRATION & DOSAGE

Hemodynamic effects of Gd–DTPA administered via rapid bolus or slow infusion: a study in dogs. Sullivan ME, et al. **AJNR** 1990 May;11(3):537–40

High-dose contrast agent administration during complex coronary angioplasty. Kahn JK, et al. **Am Heart J** 1990 Sep;120(3):533–6

Prediction of pancreatic necrosis by dynamic pancreatography. Bradley EL 3d, et al. **Ann Surg** 1989 Oct; 210(4):495–503; discussion 503–4

The question of dose in IV–DSA procedure [letter; comment] Dawson P. **Australas Radiol** 1989 Nov;33(4):410 Comment on: Australas Radiol 1989 May;33(2):195.

Deficiencies in injection syringes used in diagnostic radiology [letter] Klevenhagen S. **Br J Radiol** 1967 Dec;40(480):959

Pituitary computed tomography: is contrast enhancement necessary? Baldwin JE, et al. **Clin Radiol** 1990 Jul; 42(1):20–3

Biodistribution and clearance of liposomal gadolinium–DTPA. Unger E, et al. **Invest Radiol** 1990 Jun; 25(6):638–44

Superparamagnetic iron oxide nanoparticles as a liver MRI contrast agent: contribution of microencapsulation to improved biodistribution. Pouliquen D, et al. **Magn Reson Imaging** 1989 Nov–Dec;7(6):619–27

Facilitation of the subclavian-introducer technique with contrast venography. Higano ST, et al. **PACE** 1990 May; 13(5):681–4

Evaluation of potential practical oral contrast agents for pediatric magnetic resonance imaging. Preliminary observations. Bisset GS 3d. **Pediatr Radiol** 1989; 20(1–2):61–6

New high-flow "cloud" catheter for safer delivery of contrast material. Hansen EC, et al. **Radiology** 1989 Nov; 173(2):461–4

Safe use of an intravenous power injector for CT: experience and protocol. Miles SG, et al. **Radiology** 1990 Jul; 176(1):69–70

Where you are doubtful of doing good, be sure of doing no harm [letter; comment] Stevens JM. **Radiology** 1989 Dec;173(3):880–1 Comment on: Radiology 1989 Feb;170(2):535–9.

Long-term tissue distribution and steady state activity ratios of 232Th and its daughters in rats after intravascular injection of Thorotrast. Norimura T, et al. **Sangyo Ika Daigaku Zasshi** 1989 Sep 1;11(3):287–97

[CT myelography with low concentration and/or a low dose of nonionic contrast water-soluble medium] Liu YX. **Chung Hua Wai Ko Tsa Chih** 1989 Sep;27(9):554–7, 575 (Eng. Abstr.) **(Chi)**

[Manifestations of dysfunction of the proximal tubules after intravenous urography] Haragsim L, et al. **Vnitr Lek** 1990 Feb;36(2):141–6 (Eng. Abstr.) **(Cze)**

[Gadolinium–DTPA as an oral contrast medium in magnetic resonance tomography] Kaminsky S, et al. **Radiol Diagn (Berl)** 1989;30(5):541–8 (Eng. Abstr.) **(Ger)**

[When and how much oral contrast medium in abdominal CT?] Klöppel R. **Radiol Diagn (Berl)** 1989;30(6):695–6 (Eng. Abstr.) **(Ger)**

[Comment on the paper "Initial experiences with the mechanically controlled colon contrast enema"] Petrik R. **Radiol Diagn (Berl)** 1990;31(1):87–9 **(Ger)**

[The results and tolerability of infusion cholegraphy using ioglycamide–85 (12.75 g meglumine salt in 75 ml) in comparison with the use of a hypotonic adipiodone solution (10 g meglumine salt in 100 ml)] Ronneburg HP. **Radiol Diagn (Berl)** 1990;31(3):253–60 (Eng. Abstr.) **(Ger)**

[Gadolinium–DTPA as an oral contrast medium for MR tomography of the abdomen] Krahe T, et al. **ROFO** 1990 Aug;153(2):167–73 (Eng. Abstr.) **(Ger)**

[Arterial DSA using CO2 as a contrast medium: improvement of picture quality using a novel gas injector in an animal experiment] Krasny R, et al. **ROFO** 1990 Apr;152(4):425–9 (Eng. Abstr.) **(Ger)**

[The diagnostic value of MR tomography following gadolinium–DTPA compared to computed tomography in bladder tumors] Nicolas V, et al. **ROFO** 1990 Aug; 153(2):197–203 (Eng. Abstr.) **(Ger)**

[Drug modification of double-contrast imaging of the small intestine] Weidenmaier W, et al. **ROFO** 1990 Feb; 152(2):137–41 (Eng. Abstr.) **(Ger)**

[Double contrast small bowel examination—a methodologic comparison using transnasal and peroral probes] Dunst J, et al. **Rontgenblatter** 1990 Jun;43(6):245–7 (Eng. Abstr.) **(Ger)**

[Catheter-induced atrial thrombi following central contrast medium injection in venous DSA] Kaltenborn HA, et al. **Rontgenpraxis** 1989 Dec;42(12):412–4 **(Ger)**

[Intraventricular contrast medium (non-ionic water soluble dimer) residue a month after injection; a case report] Kawata Y, et al. **Rinsho Hoshasen** 1990 Jun;35(6):729–32 (Eng. Abstr.) **(Jpn)**

[Double contrast retrograde urethrography using viscous and gaseous contrast media in men] Bulov VM, et al. **Vestn Rentgenol Radiol** 1989 Jul–Aug;(4):32–5 (Eng. Abstr.) **(Rus)**

[Optimization of the method of x-ray contrast left ventriculography] Savchenko AP, et al. **Vestn Rentgenol Radiol** 1990 Jan–Feb;(1):32–6 (Eng. Abstr.) **(Rus)**

[Intravenous digital subtraction ventriculography: technical and methodologic aspects, a comparison with cineventriculography] Shtern SV, et al. **Vestn Rentgenol Radiol** 1990 Jan–Feb;(1):12–6 (Eng. Abstr.) **(Rus)**

[Transsphenoidal contrasting of hypophyseal adenomas and intrasellar cysts] Skriabin VV, et al. **Zh Vopr Neirokhir** 1989 Nov–Dec;(6):59–61 **(Rus)**

ADVERSE EFFECTS

The significance of 'no significant difference'. Brismar J, et al. **Acta Radiol** 1990 May;31(3):315–8

Urinary protein excretion following intravenously administered ionic and non-ionic contrast media in man. Skovgaard N, et al. **Acta Radiol** 1989 Sep–Oct;30(5):517–9

Universal premedication before use of ionic contrast medium [letter] Cossi AF. **AJR Am J Roentgenol** 1990 Jun; 154(6):1343–4

Corticosteroid pretreatment for potential contrast reactions in children with lymphoreticular cancer: a word of caution. Luna–Fineman S, et al. **AJR Am J Roentgenol** 1990 Aug; 155(2):357–8

Nonionic vs ionic contrast media: corticosteroid pretreatment in a private practice [letter] Seibert CE. **AJR Am J Roentgenol** 1990 Sep;155(3):652

Reaction to nonionic contrast medium during arthrography of the temporomandibular joint [letter] Westesson PL, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1344

Safety of cardiac angiography with conventional ionic contrast agents. The Philadelphia Area Contrast Agent Study. Hirshfeld JW Jr, et al. **Am J Cardiol** 1990 Aug 1; 66(3):355–61

Renal failure following radiologic procedures. Cronin RE. **Am J Med Sci** 1989 Nov;298(5):342–56 (148 ref.)

Thorotrast induced chondrosarcoma of the axilla. Schajowicz F, et al. **Am J Roentgenol Radium Ther Nucl Med** 1967 Aug;100(4):931–7

Incidence, risk factors, and clinical course of acute renal insufficiency after cardiac catheterization in patients 70 years of age or older. A prospective study. Rich MW, et al. **Arch Intern Med** 1990 Jun;150(6):1237–42

Ioversol in ascending phlebography—a clinical trial. Scott H, et al. **Australas Radiol** 1990 Feb;34(1):44–6

Safer contrast agents? Dawson P, et al. **Br J Hosp Med** 1989 Nov;42(5):406–7

Relative safety of intravenous digital subtraction angiography over other methods of carotid angiography and impact on clinical management of cerebrovascular disease. Stevens JM, et al. **Br J Radiol** 1989 Sep;62(741):813–6

Reactions to intravenous contrast media [letter] Tuck JS, et al. **Br J Radiol** 1990 Mar;63(747):230–1

Increased incidence of hypersensitivity to iodine-containing radiographic contrast media after interleukin–2 administration. Zukiwski AA, et al. **Cancer** 1990 Apr 1; 65(7):1521–4

Delayed rupture following subintimal contrast injection: case report. Franczyk J, et al. **Cardiovasc Intervent Radiol** 1990 Apr–May;13(2):75–6

Ventricular fibrillation during coronary angiography: reduced incidence with nonionic contrast media. Missri J, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):4–7

Coronary artery spasm during cardiac angiography. Satoh A, et al. **Clin Cardiol** 1990 Jan;13(1):55–8

Adverse reactions to radiographic contrast material. Grammer LC, et al. **Clin Dermatol** 1986 Jan–Mar; 4(1):149–54 (45 ref.)

Iododerma and acute respiratory distress with leucocytoclastic vasculitis following the intravenous injection of contrast medium. Vaillant L, et al. **Clin Exp Dermatol** 1990 May;15(3):232–3

Intravascular contrast agents and renal failure. Dawson P, et al. **Clin Radiol** 1990 Jun;41(6):373–5 (38 ref.)

Injection rate: a factor in contrast reactions? Duddy MJ, et al. **Clin Radiol** 1990 Jan;41(1):42–3

Low osmolar contrast media: an appraisal. Grainger RG, et al. **Clin Radiol** 1990 Jul;42(1):1–5

Injection rate: a factor in contrast reactions [letter] Hartnell GG. **Clin Radiol** 1990 Jul;42(1):70

Contrast media for urography. Dawson P. **Curr Opin Radiol** 1989 Oct;1(3):283–9 (28 ref.)

Comment: incidence of adverse reactions caused by contrast media [letter; comment] **DICP** 1990 May;24(5):547–8 Comment on: DICP 1989 Nov;23(11):925–6.

Contrast media adverse reactions [letter] [see comments] Drea EJ, et al. **DICP** 1989 Nov;23(11):925–6 Comment in: DICP 1990 May;24(5):547–8.

Sepsis following injection of obstructed pancreatic ducts [letter] Ayela P, et al. **Endoscopy** 1989 Sep;21(5):242

Ventricular fibrillation in coronary angiography: what is the role of contrast medium? Armstrong SJ, et al. **Eur Heart J** 1989 Oct;10(10):892–5

The non-ionic contrast media: thrombosis or haemorrhage? Bernard C, et al. **Eur J Radiol** 1989 Aug;9(3):131–2 (34 ref.)

Safety and toleration of the non-ionic contrast medium iopentol. An intravenous phase I trial. Jakobsen JA, et al. **Eur J Radiol** 1989 Nov;9(4):203–7

Cerebral embolization and coma after hysterosalpingography with oil–soluble contrast medium. Dan U, et al. **Fertil Steril** 1990 May;53(5):939–40

Ioversol clinical safety summary. Benamor M, et al. **Invest Radiol** 1989 Jun;24 Suppl 1:S67–72

Assays for plasma complement activation by x-ray contrast media. Eaton S, et al. **Invest Radiol** 1990 Jul;25(7):789–92

Postmyelographic abducent nerve palsy in association with the contrast agent iopamidol. Bell JA, et al. **J Clin Neuro Ophthalmol** 1990 Jun;10(2):115–7

Contrast medium "recalls" interleukin–2 toxicity [letter] Oldham RK, et al. **J Clin Oncol** 1990 May;8(5):942–3

Effects of atrial natriuretic peptide versus mannitol on renal blood flow during radiocontrast infusion in chronic renal failure. Kurnik BR, et al. **J Lab Clin Med** 1990 Jul; 116(1):27–36

Seizures after intravenous contrast media for cranial computed tomography. Nelson M, et al. **J Neurol Neurosurg Psychiatry** 1989 Oct;52(10):1170–5

Acute iodide-induced enlargement of the salivary glands. Wolf M, et al. **J Oral Maxillofac Surg** 1990 Jan;48(1):71–2

Nephrotoxicity of contrast media [clinical conference] Berns AS. **Kidney Int** 1989 Oct;36(4):730–40 (115 ref.)

Thrombogenic potential of nonionic contrast media [letter; comment] Robertson HJ. **Mayo Clin Proc** 1990 Apr; 65(4):603–4 Comment on: Mayo Clin Proc 1989 Aug;64(8):976–85.

Prevention of radiocontrast-media-induced nephrotoxicity by the calcium channel blocker nitrendipine: a prospective randomised clinical trial. Neumayer HH, et al. **Nephrol Dial Transplant** 1989;4(12):1030–6

Comparison of soft tissue effects of conventional ionic, low osmolar ionic and nonionic iodine containing contrast material in experimental animals. McAlister WH, et al. **Pediatr Radiol** 1990;20(3):170–4

Thrombogenic potential of nonionic contrast media? **Radiology** 1990 Oct;177(1):280–5

Oxygen free radical involvement in urinary Tamm–Horsfall protein excretion after intrarenal injection of contrast medium. Bakris GL, et al. **Radiology** 1990 Apr;175(1):57–60

Ionic versus nonionic contrast agents for intravenous use: are all the answers in? [editorial; comment] Bettmann MA. **Radiology** 1990 Jun;175(3):616–8 Comment on: Radiology 1990 Jun;175(3):621–8.

Risk management issues related to the use of contrast agents. Bettmann MA, et al. **Radiology** 1990 Jun;175(3):629–31

Thrombogenic potential of nonionic contrast media? Fareed J, et al. **Radiology** 1990 Feb;174(2):321–5

Risk of thromboembolism during diagnostic and interventional cardiac procedures with nonionic contrast media. Hwang MH, et al. **Radiology** 1990 Feb;174(2):453–7

Adverse reactions to ionic and nonionic contrast media. A report from the Japanese Committee on the Safety of Contrast Media [see comments] Katayama H, et al. **Radiology** 1990 Jun;175(3):621–8 Comment in: Radiology 1990 Jun;175(3):616–8.

Severe anaphylactoid reaction to Gd–DTPA [letter] Lufkin RB. **Radiology** 1990 Sep;176(3):879

Nephrotoxicity of common drugs used by urologists. Bennett WM, et al. **Urol Clin North Am** 1990 Feb;17(1):145–56 (57 ref.)

Treatment of systemic reactions to contrast media. Bush WH. **Urology** 1990 Feb;35(2):145–50 (33 ref.)

[First aid in reactions to contrast media] Chandie Shaw MP, et al. **Ned Tijdschr Geneeskd** 1990 Apr 21;134(16):805–8 (25 ref.) **(Dut)**

[Emergency care in reactions to contrast media (letter)] Crobach MJ. **Ned Tijdschr Geneeskd** 1990 Jun 16; 134(24):1194–5 **(Dut)**

[Physiopathology of nephrotoxicity of iodinated contrast media. New concepts] Deray G, et al. **J Radiol** 1990 Jan; 71(1):1–3 **(Fre)**

[Prevention of intolerance to iodized contrast media] Soyer P, et al. **Presse Med** 1990 Mar 31;19(12):562–5 (Eng. Abstr.) **(Fre)**

["Pneumonia following bronchography"] Maasaen W. **Pneumologie** 1989 Oct;43(10):553–4 **(Ger)**

[Prevention of adverse reactions to contrast media by means of general anesthesia?] Wangemann BU, et al. **Radiologe** 1990 Mar;30(3):141–4 (27 ref.) (Eng. Abstr.) **(Ger)**

[Undesirable side effects of contrast media during i.v. DSA—a comparison of 2 nonionic contrast media] Gross-Fengels W, et al. **Rontgenblatter** 1990 Apr; 43(4):144–9 (Eng. Abstr.) **(Ger)**

[Do non-ionic contrast media reduce the examination risk?] Schmiedel E. **Rontgenpraxis** 1989 Oct;42(10):335–7 (12 ref.)

(Ger)
[Comparative animal experiments on tissue compatibility and measurement of radioactivity of various roentgen contrast media] Hopf T, et al. **Z Orthop** 1989 Sep–Oct;127(5):620–4 (Eng. Abstr.) (Ger)
[Effects of contrast media on left ventricular function. Comparison with iohexol and diatrizoate] Kato N, et al. **Kokyu To Junkan** 1990 Jun;38(6):559–63 (Eng. Abstr.) (Jpn)
[The effects of contrast media on the cardiac conducting system in coronary angiography] Kawamori J. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Nov 25; 49(11):1372–81 (Eng. Abstr.) (Jpn)
[In vivo biochemical aspects of adverse reactions of contrast media—sequential changes of histamine, cyclic AMP, cyclic GMP] Kuwatsuru R. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 May 25; 50(5):477–89 (Eng. Abstr.) (Jpn)
[Effect of intravenous contrast media used in urography on the complement system and blood calcium] Korzec–Grzegorczyk I. **Pol Tyg Lek** 1989 May 1–8; 44(18–19):423–6 (Eng. Abstr.) (Pol)
[Nephrotoxicity of iodine containing contrast media] Malyszko J, et al. **Pol Tyg Lek** 1989 Feb 27;44(9):238–40 (27 ref.) (Pol)
[Respiratory distress in adults and disseminated intravascular coagulation after administration of iodinated contrast] Bisbe E, et al. **Rev Esp Anestesiol Reanim** 1990 May–Jun; 37(3):156–9 (Eng. Abstr.) (Spa)

CHEMICAL SYNTHESIS

Mn (III) hematoporphyrin. A potential MR contrast agent. Bohdiewicz PJ, et al. **Invest Radiol** 1990 Jul;25(7):765–70

HISTORY

Effect of ionic and non–ionic contrast medium on aortic and pulmonary arterial pressure. An angiocardiographic study in rabbits 1975 [classical article] Almén T, et al. **Invest Radiol** 1990 Apr;25(4):437–43
Adverse reactions to contrast agents. Scope of problem 1970 [classical article] Ansell G. **Invest Radiol** 1990 Apr; 25(4):381–91
Renal hemodynamic effects of contrast media 1968 [classical article] Talner LB, et al. **Invest Radiol** 1990 Apr; 25(4):365–72

METABOLISM

Incorporation of contrast media in cultured cells. Nordby A, et al. **Invest Radiol** 1989 Sep;24(9):703–10
Ascorbate–induced cancellation of nitroxide contrast media enhancement of MR images. Wikstrom MG, et al. **Invest Radiol** 1989 Sep;24(9):692–6

PHARMACOKINETICS

MR imaging of the knee in acute rheumatoid arthritis: synovial uptake of gadolinium–DOTA. Björkengren AG, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):329–32
Excretion of gadopentetate dimeglumine in human breast milk. Schmiedl U, et al. **AJR Am J Roentgenol** 1990 Jun; 154(6):1305–6
Distribution of material injected intramuscularly in dogs. Autefage A, et al. **Am J Vet Res** 1990 Jun;51(6):901–4
In vitro therapeutic targeting of neuroblastomas using 125I–labelled meta–iodobenzylguanidine. Guerreau D, et al. **Int J Cancer** 1990 Jun 15;45(6):1164–8
Magnetic starch microspheres, biodistribution and biotransformation. A new organ–specific contrast agent for magnetic resonance imaging. Fahlvik AK, et al. **Invest Radiol** 1990 Jul;25(7):793–7
Biodistribution and magnetic resonance imaging of cross–linked DTPA polysaccharides. Gibby WA, et al. **Invest Radiol** 1990 Feb;25(2):164–72
Pharmacokinetics of superparamagnetic iron–oxide MR contrast agents in the rat. Majumdar S, et al. **Invest Radiol** 1990 Jul;25(7):771–7
[Tissue distribution of red blood cells treated with X–ray contrast media in rats] Miyazawa T, et al. **Nippon Yakurigaku Zasshi** 1990 Mar;95(3):105–12 (Eng. Abstr.) (Jpn)

PHARMACOLOGY

Local glucose utilization changes caused by subarachnoid contrast media in the rabbit. Ekholm SE, et al. **Acta Radiol** 1990 Mar;31(2):209–12
Renal effects of the non–ionic contrast medium iopentol after intravenous injection in healthy volunteers. Jakobsen JA, et al. **Acta Radiol** 1990 Jan;31(1):87–91
Effects on the ATP content of cultured cells after radiographic contrast media exposure. Evidence for accumulation of contrast media in cultured cells. Nordby A, et al. **Acta Radiol** 1989 Sep–Oct;30(5):541–7
Prevention and dispersion of contrast media induced red cell aggregates. An in vitro study. Raininko R, et al. **Acta Radiol** 1990 May;31(3):309–14
Effects of intravascular ionic and non–ionic radiographic contrast agents on parameters of the kallikrein–kinin–system. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247A:477–80
Muscular and CNS effects of carotid artery administration of contrast media in rabbits. Whisson CC, et al. **AJNR** 1990 Jan–Feb;11(1):143–8
Histamine release following the administration of iodinated contrast media during cardiac catheterization. Negro JM, et al. **Allergol Immunopathol (Madr)** 1989 Nov–Dec; 17(6):313–6
Effect of intracoronary contrast medium on left ventricular diastolic pressure–volume relationships. Kløw NE, et al. **Am Heart J** 1990 Jan;119(1):59–63
Radiocontrast medium–induced declines in renal function: a role for oxygen free radicals. Bakris GL, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F115–20
Clinical use of contrast media in magnetic resonance imaging. Bydder GM. **Br J Hosp Med** 1990 Feb;43(2):149–52 (16 ref.)
Vasopressin release in response to intravenously injected contrast media [letter] Morcos SK, et al. **Br J Radiol** 1990 Aug;63(752):664
Vasopressin release in response to intravenously injected contrast media. Trewhella M, et al. **Br J Radiol** 1990 Feb; 63(746):97–100
Effects of X–ray contrast media and radiation on human vascular endothelial cells in vitro. Morgan DM, et al. **Cardiovasc Intervent Radiol** 1989 May–Jun;12(3):154–60
The therapeutic effects of oil–soluble hysterosalpingography contrast medium following water–soluble hysteroalpingography contrast medium. Yang KN, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;44(5):293–7
Influence of ionic and non–ionic radiographic contrast media on the vasomotor tone of epicardial coronary arteries. Jost S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:60–5
Impaired mitochondrial respiration and stimulated glycolysis by m–iodobenzylguanidine (MIBG). Loesberg C, et al. **Int J Cancer** 1990 Aug 15;46(2):276–81
The effects of radiographic contrast media on myocardial contractility and coronary resistance: osmolality, ionic concentration, and viscosity. Fleetwood G, et al. **Invest Radiol** 1990 Mar;25(3):254–60
A technique for estimating the probability of clots in blood–contrast agent mixtures. Grabowski EF. **Invest Radiol** 1989 Nov;24(11):940–2
The effect of intra–articular gadolinium–DTPA on synovial membrane and cartilage. Hajek PC, et al. **Invest Radiol** 1990 Feb;25(2):179–83
Ioxilan, a third generation low osmolality nonionic contrast medium. Systemic and renal hemodynamic effects. Katzberg RW, et al. **Invest Radiol** 1990 Jan;25(1):46–51
Low osmolality contrast media and metabolic changes in the myocardium during free and reduced coronary flow in the dog. Kløw NE, et al. **Invest Radiol** 1990 Feb;25(2):127–32
Inhibition of angiotensin–converting enzyme by contrast media. I. In vitro findings. Lasser EC, et al. **Invest Radiol** 1990 Jun;25(6):698–702
Effect on thrombus growth and thrombolysis of two types of osmolar contrast media in rabbits. Levi M, et al. **Invest Radiol** 1990 May;25(5):533–5
Contrast media–induced lipid peroxidation in the rat kidney. Parvez Z, et al. **Invest Radiol** 1989 Sep;24(9):697–702
Effects of angiographic contrast media on venous endothelium of rabbits. Thiesen B, et al. **Invest Radiol** 1990 Feb;25(2):121–6
Safety and pharmacokinetics of ioversol in healthy volunteers. Wilkins RA, et al. **Invest Radiol** 1989 Oct; 24(10):781–8
Effects of ionic and nonionic contrast media on bradyarrhythmia during coronary angiography: a comparison of Renografin–76, Hypaque–76, and Isovue–370. Piao ZE, et al. **J Lab Clin Med** 1990 Jan; 115(1):122–7
Effect of atriopeptin II on contrast medium–induced changes in renal blood flow. Bentley MD, et al. **Kidney Int** 1989 Jul;36(1):13–9
The effect of Hexabrix tracheobronchography on the ultrastructure of the airway epithelium. Konrádová V, et al. **Pediatr Radiol** 1990;20(6):440–3
Thrombin generation in nonclottable mixtures of blood and nonionic contrast agents. Kopko PM, et al. **Radiology** 1990 Feb;174(2):459–61
Effect of low osmolar, ionic and nonionic, contrast media on the cytologic features of exfoliated urothelial cells. Andriole GL, et al. **Urol Radiol** 1989;11(3):133–5
[Animal experimental studies on the microcirculation of ionic and nonionic x–ray contrast media] Klopp R, et al. **Radiol Diagn (Berl)** 1989;30(3):324–8 (Eng. Abstr.) (Ger)
[Experimental studies of the vascular reactions in selected microcirculatory areas as affected by various x–ray contrast media] Klopp R, et al. **Radiol Diagn (Berl)** 1989;30(3):332–8 (Eng. Abstr.) (Ger)
[Changes in the concentration of plasma histamine and the blood electrolyte picture following the venous administration of nonionic x–ray contrast media] Jansen O, et al. **Rontgenpraxis** 1990 Mar;43(3):104–9 (Ger)
[The effects of angiographic contrast media on the aggregation and morphology of red cells in vitro] Higashi S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jun 25;49(6):748–57 (Eng. Abstr.) (Jpn)
[Experimental study of hemodynamic changes following superior mesenteric arterial injection of various contrast media] Maeda M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jul 25; 49(7):875–9 (Eng. Abstr.) (Jpn)
[Effect of x–ray contrast substances on the complement system of rats] Sergeev PV, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):716–8 (Eng. Abstr.) (Rus)
[Electronystagmographic evaluation of changes in vestibular reactions after administration of diverse substances into cerebral ventricles] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1989 Sep–Oct;(5):25–30 (Eng. Abstr.) (Rus)
[A comparative assessment of the effect of Omnipaque and Verografin on ECG indices and myocardial contractility in patients with unstable angina during coronary ventriculography] Savchenko AP, et al. **Vestn Rentgenol Radiol** 1989 Jul–Aug;(4):13–6 (Eng. Abstr.) (Rus)

STANDARDS

Negative gastrointestinal contrast enhancement and image distortion induced by superparamagnetic particles at 0.02 Tesla. Niemi P, et al. **Magn Reson Imaging** 1989 Nov–Dec; 7(6):649–53

SUPPLY & DISTRIBUTION

[Contrast media: present status and future of their production and use] Tsyb AF, et al. **Vestn Akad Med Nauk SSSR** 1989; (7):29–33 (Eng. Abstr.) (Rus)

TOXICITY

Effect of contrast media on left ventricular function during left coronary arteriography in dogs. Hayakawa K, et al. **Acta Radiol** 1989 Nov–Dec;30(6):655–9
Blood–brain barrier injury following intracarotid injection of radiographic contrast media. In vivo quantification using magnetic resonance imaging and Gd–DTPA. Hayakawa K, et al. **Acta Radiol** 1990 Mar;31(2):203–8
Histamine release and pseudoallergic reactions induced by radiographic contrast media: comparison of Angiographin, Hexabrix and Telebrix using an in vivo canine model. Ennis M, et al. **Agents Actions** 1990 Apr;30(1–2):81–4
The effect of Gd–dimeglumine on subcutaneous tissues: a study with rats. McAlister WH, et al. **AJNR** 1990 Mar–Apr;11(2):325–7
The effects of water soluble contrast agents on the respiratory tract [letter; comment] Ratcliffe J. **Australas Radiol** 1989 Nov;33(4):409 Comment on: Australas Radiol 1989 May;33(2):124–7.
Effect of injections of contrast media on regional uptake of (14C)–2–deoxyglucose by the rat brain. Cicciarello R, et al. **Brain Inj** 1990 Jan–Mar;4(1):71–6
Reaction to contrast media in contrast–enhanced CT of the brain. A comparative investigation of non–ionic ultravist and ionic urografin–meglumin. Jensen PR, et al. **Eur J Radiol** 1989 Aug;9(3):144–6
Extravascular extravasation of radiographic contrast media. Effects of conventional and low–osmolar agents in the rat thigh. Cohan RH, et al. **Invest Radiol** 1990 May; 25(5):504–10
Renal handling and physiologic effects of the paramagnetic contrast medium Gd–DOTA. Katzberg RW, et al. **Invest Radiol** 1990 Jun;25(6):714–9
Experimental tissue damage after subcutaneous injection of water soluble contrast media. Kim SH, et al. **Invest Radiol** 1990 Jun;25(6):678–85
Effects of contrast media on myocardial function during acute left ventricular failure in the dog. Kløw NE, et al. **Invest Radiol** 1990 Jan;25(1):41–5
Randomised prospective study on renal effects of two different contrast media in humans: protective role of a calcium channel blocker. Russo D, et al. **Nephron** 1990; 55(3):254–7
Uninephrectomy does not potentiate contrast media nephrotoxicity in the streptozotocin–induced diabetic rat. Shyh TP, et al. **Nephron** 1990;55(2):170–5
Safety assessment of gadopentetate dimeglumine in U.S. clinical trials [see comments] Goldstein HA, et al. **Radiology** 1990 Jan;174(1):17–23 Comment in: Radiology 1990 Jan;174(1):7–8.
Effects of contrast agents on the fallopian tube in a rabbit model. Moore DE, et al. **Radiology** 1990 Sep;176(3):721–4
[The nephrotoxicity of ionic and nonionic contrast media in urography. An evaluation with immunoenzyme technics and monoclonal antibodies] Rossi L, et al. **Radiol Med (Torino)** 1989 Dec;78(6):612–5 (Eng. Abstr.) (Ita)
[Contrast material for CT of the liver and spleen—an experimental study on the safety of lipiodol–iopamidol emulsion] Murakami T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Dec 25; 49(12):1509–16 (Eng. Abstr.) (Jpn)
[A decrease in the toxic action of x–ray contrast media using normobaric hypoxic stimulation] Pil'shchikov SN, et al. **Farmakol Toksikol** 1989 Nov–Dec;52(6):79–82 (Eng. Abstr.) (Rus)

CONTRAST SENSITIVITY

A new glare test based on low contrast letters—evaluation in cataract patients. Hård AL, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):145–50
Contrast sensitivity function and pituitary adenoma: a study of 40 cases. Grochowicki M, et al. **Br J Ophthalmol** 1990 Jun;74(6):358
Brightness discrimination and contrast sensitivity in chronic glaucoma—a clinical study. Teoh SL, et al.

Br J Ophthalmol 1990 Apr;74(4):215–9
Visual performance in high myopia. Collins JW, et al. **Curr Eye Res** 1990 Mar;9(3):217–23
Glare and contrast sensitivity in contact lens corrected aphakia, epikeratophakia and pseudophakia. Harper RA, et al. **Eye** 1989;3 (Pt 5):562–70
Effect of luminance and contrast on stereoscopic acuity. Geib T, et al. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(4):310–5
Spatial and spatiotemporal contrast sensitivity of normal and glaucoma eyes. Korth M, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(5):428–35
Comparison of contrast sensitivity between posterior chamber lenses of silicone and PMMA material. Skorpik C, et al. **Graefes Arch Clin Exp Ophthalmol** 1989; 227(5):413–6
Practical contrast sensitivity acuity testing. Drews RC. **Int Ophthalmol** 1989 May;13(3):217–8
Glaucomatous visual loss: field, color, and contrast. Drake MV. **Int Ophthalmol Clin** 1990 Summer;30(3):169–76 (48 ref.)
Chromatic, spatial, and temporal losses of sensitivity in multiple sclerosis. Dain SJ, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):548–58
Glaucomatous visual field damage. Luminance and color–contrast sensitivities. Hart WM Jr, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):359–67
Contrast sensitivity in patients with a new type of multifocal intraocular lens. Olsen T, et al. **J Cataract Refract Surg** 1990 Jan;16(1):42–6
Color and contrast sensitivity in the lateral geniculate body and primary visual cortex of the macaque monkey. Hubel DH, et al. **J Neurosci** 1990 Jul;10(7):2223–37
Amblyopia: the normal eye is not normal. Leguire LE, et al. **J Pediatr Ophthalmol Strabismus** 1990 Jan–Feb; 27(1):32–8; discussion 39
Contrast sensitivity letter charts as a test of visual function in amblyopia. Loeffler M, et al. **J Pediatr Ophthalmol Strabismus** 1990 Jan–Feb;27(1):28–31
Circadian fluctuations of contrast sensitivity in Parkinson's disease. Struck LK, et al. **Neurology** 1990 Mar;40(3 Pt 1):467–70
Contrast sensitivity with contact lens corrections for presbyopia. Collins MJ, et al. **Ophthalmic Physiol Opt** 1989 Apr;9(2):133–8
The reliability of the Pelli–Robson contrast sensitivity chart. Elliott DB, et al. **Ophthalmic Physiol Opt** 1990 Jan; 10(1):21–4
The effect of monocular defocus on binocular contrast sensitivity. Pardhan S, et al. **Ophthalmic Physiol Opt** 1990 Jan;10(1):33–6
Binocular contrast sensitivity with monocular glare disability. Pardhan S, et al. **Ophthalmic Physiol Opt** 1990 Jan; 10(1):37–9
Assessment of the Vistech contrast sensitivity test for repeated–measures applications. Kennedy RS, et al. **Optom Vis Sci** 1990 Apr;67(4):248–51
Effects of dioptric blur on the Vistech contrast sensitivity test. Thorn F. **Optom Vis Sci** 1990 Jan;67(1):8–12
Grating acuity overestimates Snellen acuity in patients with age–related maculopathy. White JM, et al. **Optom Vis Sci** 1989 Nov;66(11):751–5
Vision enhancement using a short wavelength light–absorbing filter. Zigman S. **Optom Vis Sci** 1990 Feb; 67(2):100–4
Texture interactions determine perceived contrast. Chubb C, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9631–5
Letter contrast sensitivity in retinitis pigmentosa patients assessed by Regan charts. Spellman DC, et al. **Retina** 1989; 9(4):287–91
[Automatic static quantitative perimetry of the central 30 degrees visual field in normal subjects] Huang YF. **Chung Hua Yen Ko Tsa Chih** 1989 Mar;25(2):90–3 (Eng. Abstr.) (Chi)
[Contrast sensitivity in open–angle glaucoma] Tian N. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):6–9 (Eng. Abstr.) (Chi)
[Evaluation of contrast sensitivity test in the diagnosis of early glaucoma] Yuan YS. **Chung Hua Yen Ko Tsa Chih** 1989 Mar;25(2):84–7 (Eng. Abstr.) (Chi)
[Contrast sensitivity in dialyzed patients] Peregrin J, et al. **Cesk Oftalmol** 1989 Nov;45(6):412–5 (Eng. Abstr.) (Cze)
[Contrast sensitivity function. Results of an epidemiologic study] Corbe C, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul; 89(6–7):775–8, 781–2 (Eng. Abstr.) (Fre)
[Contrast sensitivity of the pseudophakic eye] Malbrel C. **Bull Soc Ophtalmol Fr** 1990 Jan;90(1):93 (Eng. Abstr.) (Fre)
[Contrast sensitivity is not only an additional complementary test] Nordmann JP, et al. **J Fr Ophtalmol** 1989; 12(6–7):455–60 (Eng. Abstr.) (Fre)
[Objective evaluation of contrast sensitivity by visual evoked potentials] Zanlonghi X, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):242–3 (Eng. Abstr.) (Fre)
[Spatial contrast sensitivity in multiple sclerosis] Vighetto A, et al. **Rev Neurol (Paris)** 1990;146(4):264–70 (Eng. Abstr.) (Fre)

DRUG EFFECTS

Effect of levodopa on contrast sensitivity and scotomas in human amblyopia. Gottlob I, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):776–80
Pindolol and timolol: short–term influence on angioscotomas and static brightness contrast sensitivity. Zulauf M. **Ophthalmologica** 1990;201(1):37–44
Flicker sensitivity in treated ocular hypertension. Tytla ME, et al. **Ophthalmology** 1990 Jan;97(1):36–43

PHYSIOLOGY

Apparent contrast of triangular gratings is greater than that of sinusoidal ones. Laurinen P, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):149–50
An optical model to describe image contrast with bifocal intraocular lenses. Atebara NH, et al. **Am J Ophthalmol** 1990 Aug 15;110(2):172–7
Recovery of spatial vision following shunting for hydrocephalus. Tytla ME, et al. **Arch Ophthalmol** 1990 May;108(5):701–4
The time required for U.S. Navy fighter pilots to shift gaze and identify near and far targets. Morris A, et al. **Aviat Space Environ Med** 1989 Nov;60(11):1085–9
Clinical measures of central differential sensitivity in glaucoma. Capoferri C, et al. **Can J Ophthalmol** 1990 Jun; 25(4):193–6
ERG–determined spectral and absolute sensitivities in relation to age and size in the halfcrab Petrolisthes elongatus (Crustacea; Decapoda; Anomura). Ziedins I, et al. **Exp Biol** 1990;48(6):319–28
A comparison of three clinical methods of spatial contrast–sensitivity testing in normal subjects. Tweten S, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):24–7
Human photopic vision with only short wavelength cones: post–receptoral properties. Hess RF, et al. **J Physiol (Lond)** 1989 Oct;417:151–72
Sensitivity of macaque retinal ganglion cells to chromatic and luminance flicker. Lee BB, et al. **J Physiol (Lond)** 1989 Jul;414:223–43
Accommodative responses to naturalistic stimuli. Ciuffreda KJ, et al. **Ophthalmic Physiol Opt** 1990 Apr;10(2):168–74
The onset of prolonged glare recovery with age. Collins M. **Ophthalmic Physiol Opt** 1989 Oct;9(4):368–71
The effect of defocus on the contrast and phase of the retinal image of a sinusoidal grating. Walsh G, et al. **Ophthalmic Physiol Opt** 1989 Oct;9(4):398–404
Contrast sensitivity norms for the Mentor B–VAT II–SG video acuity tester. Corwin TR, et al. **Optom Vis Sci** 1989 Dec;66(12):864–70
Contrast sensitivity for letter and grating targets under various stimulus conditions. Herse PR, et al. **Optom Vis Sci** 1989 Nov;66(11):774–81
Bandwidth of the contrast sensitivity function as an index of spatial vision with application to refraction. Jiang BC, et al. **Optom Vis Sci** 1990 Apr;67(4):260–7
Crowding depends on contrast. Kothe AC, et al. **Optom Vis Sci** 1990 Apr;67(4):283–6
Predicting visual acuity from detection thresholds. Newacheck JS, et al. **Optom Vis Sci** 1990 Mar;67(3):184–91
Uniform field flicker: masking and facilitation. Badcock DR, et al. **Vision Res** 1989;29(7):803–8
Luminance contrast and motion detection. Boulton JC, et al. **Vision Res** 1990;30(1):175–9
Sawtooth contrast sensitivity: decrements have the edge. Bowen RW, et al. **Vision Res** 1989;29(11):1501–9
Contrast discrimination cannot explain spatial frequency, orientation or temporal frequency discrimination. Bowne SF. **Vision Res** 1990;30(3):449–61
Contrast dependence of short–range apparent motion. Cleary R. **Vision Res** 1990;30(3):463–78
Effects of adapting luminance and stimulus contrast on the temporal and spatial limits of short–range motion. Dawson M, et al. **Vision Res** 1990;30(3):415–29
Failure of motion discrimination at high contrasts: evidence for saturation. Derrington AM, et al. **Vision Res** 1989; 29(12):1767–76
Neural contribution to spatiotemporal contrast sensitivity decline in healthy ageing eyes. Elliott D, et al. **Vision Res** 1990;30(4):541–7
The influence of stimulus length on the oblique effect of contrast sensitivity. Essock EA. **Vision Res** 1990; 30(8):1243–6
Adaptation to peripheral flicker: relationship to contrast detection thresholds. Harris JP, et al. **Vision Res** 1990; 30(3):381–6
Regional distribution of the mechanisms that underlie spatial localization. Hess RF, et al. **Vision Res** 1990;30(7):1021–31
Stereopsis and contrast. Legge GE, et al. **Vision Res** 1989; 29(8):989–1004
Disappearance of grating induction at scotopic luminances. McCourt ME. **Vision Res** 1990;30(3):431–7
Texture segregation with luminance and chromatic contrast. McIlhagga W, et al. **Vision Res** 1990;30(3):489–95
Measurement of spatial contrast sensitivity with the swept contrast VEP. Norcia AM, et al. **Vision Res** 1989; 29(5):627–37
Metacontrast masking between cyclopean and luminance stimuli. Patterson R, et al. **Vision Res** 1990;30(3):439–48
The contrast sensitivity gradient across the human visual field: with emphasis on the low spatial frequency range. Pointer JS, et al. **Vision Res** 1989;29(9):1133–51
The contrast sensitivity gradient across the major oblique meridians of the human visual field. Pointer JS, et al. **Vision Res** 1990;30(3):497–501
The effect of local luminance contrast on induced motion. Raymond JE, et al. **Vision Res** 1990;30(5):751–6
Orientation discrimination for objects defined by relative motion and objects defined by luminance contrast. Regan D. **Vision Res** 1989;29(10):1389–400
The conditions under which Mach bands are visible. Ross J, et al. **Vision Res** 1989;29(6):699–715
Binocular fusion limits are independent of contrast, luminance gradient and component phases. Schor C, et al. **Vision Res** 1989;29(7):821–35
Interocular differences in contrast and spatial frequency: effects on stereopsis and fusion. Schor C, et al. **Vision Res** 1989;29(7):837–47
Coding of image contrast in central visual pathways of the macaque monkey. Sclar G, et al. **Vision Res** 1990;30(1):1–10
Contrast adaptation in striate cortex of macaque. Sclar G, et al. **Vision Res** 1989;29(7):747–55
Effect of contrast on the perceived direction of a moving plaid. Stone LS, et al. **Vision Res** 1990;30(7):1049–67
Infant spatiotemporal vision: dependence of spatial contrast sensitivity on temporal frequency. Swanson WH, et al. **Vision Res** 1990;30(7):1033–48
On the mechanism that encodes the movement of contrast variations: velocity discrimination. Turano K, et al. **Vision Res** 1989;29(2):207–21
The subjective sensitivity to small changes in the contrast of a suprathreshold grating. Walsh G, et al. **Vision Res** 1990;30(1):163–73
[Contrast sensitivity in amblyopia] Yang SM. **Chung Hua Yen Ko Tsa Chih** 1989 Sep;25(5):282–5 (Eng. Abstr.) (Chi)

RADIATION EFFECTS

Using argon laser blue light reduces ophthalmologists' color contrast sensitivity. Argon blue and surgeons' vision. Berninger TA, et al. **Arch Ophthalmol** 1989 Oct; 107(10):1453–8

CONTROLLED CLINICAL TRIALS see **CLINICAL TRIALS**

CONTROLLED CLINICAL TRIALS, RANDOMIZED see **RANDOMIZED CONTROLLED TRIALS**

CONTUSIONS

COMPLICATIONS

Delayed cardiac arrest after myocardial contusion. Silverman SH, et al. **Crit Care Med** 1990 Jun;18(6):677–8
Late sequelae of lung contusion. Svennevig JL, et al. **Injury** 1989 Sep;20(5):253–6
[A case of organized hematoma of the upper right muscle caused by contusion] Tapiero B, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1185–8 (Fre)
[A case of contusion–induced dehiscence of keratotomic incision in the late postoperative period] Avetisov SE. **Vestn Oftalmol** 1990 Mar–Apr;106(2):59–60 (Rus)
[Traumatic rupture of the eyeball after radial keratotomy] Zhaboedov GD, et al. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):64–5 (Eng. Abstr.) (Rus)

DIAGNOSIS

Suspected myocardial contusion. Triage and indications for monitoring. Wisner DH, et al. **Ann Surg** 1990 Jul; 212(1):82–6
Diagnosing myocardial contusion [letter; comment] Smith JS Jr. **Arch Surg** 1990 Apr;125(4):551 Comment on: Arch Surg 1989 Apr;124(4):506–7.
Myocardial contusion without creatine kinase—MB elevation. Unkle DW, et al. **Heart Lung** 1989 Nov; 18(6):539–41
Myocardial contusion. Micon LT, et al. **Indiana Med** 1990 Feb;83(2):106–10
Childhood bruising. Wedgwood J. **Practitioner** 1990 Jun 8; 234(1490):598–601
[Duodenopancreatic contusions. Diagnostic difficulties in children] Loizon P, et al. **Pediatrie** 1989;44(4):271–5 (Eng. Abstr.) (Fre)
[Clinical analysis of renal trauma] Matsuda S, et al. **Hinyokika Kiyo** 1990 Feb;36(2):115–20 (Eng. Abstr.) (Jpn)

DRUG THERAPY

Chlorpromazine protects rat spinal cord against contusion injury. Sadanaga KK, et al. **J Neurotrauma** 1989 Fall; 6(3):153–61

EPIDEMIOLOGY

Cardiac contusion in pediatric patients with blunt thoracic trauma. Ildstad ST, et al. **J Pediatr Surg** 1990 Mar; 25(3):287–9
[Severe contusions of the eye. Epidemiologic and lesional aspects. Apropos of 130 cases] Ducasse A, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1439–42 (Eng. Abstr.) (Fre)

ETIOLOGY

Post–traumatic pulmonary contusion in children. Bonadio WA, et al. **Ann Emerg Med** 1989 Oct;18(10):1050–2
Prediction of the delayed complications of intestinal and

mesenteric injuries following experimental blunt abdominal trauma. Paterson-Brown S, et al. **Br J Surg** 1990 Jun; 77(6):648–51

Retinal wound healing after surgical contusion injury. Spitznas M, et al. **Graefes Arch Clin Exp Ophthalmol** 1989; 227(5):482–8

[Principles of modeling of injuries of the internal organs in experimental surgery] Pikenin AM, et al. **Klin Khir** 1990; (4):25–6 (Eng. Abstr.) **(Rus)**

PATHOLOGY

[Pulmonary contusions. Anatomo-radiologic aspects] Tabib A, et al. **Arch Anat Cytol Pathol** 1989;37(4):148–52 (Eng. Abstr.) **(Fre)**

[Death caused by hurling a truck plate spring into the interior of an automobile] Miltner E. **Arch Kriminol** 1990 Mar–Apr; 185(3–4):89–92 (Eng. Abstr.) **(Ger)**

[Changes in the lungs in the early period of closed trauma of the thorax in rats] Kulitskaia VI, et al. **Biull Eksp Biol Med** 1989 Oct;108(10):417–21 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

[Pathogenic mechanism of contusio bulbi] Berg P, et al. **Fortschr Ophthalmol** 1989;86(4):407–10 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

[The role of bedside thoracic imaging in monitoring surgical intensive care patients] Wallner B. **Roatgenblatter** 1990 Jul; 43(7):283–7 (Eng. Abstr.) **(Ger)**

[Diagnosis and treatment of splenic contusion] Iudin MIa, et al. **Klin Khir** 1990;(4):32–3 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

False positive V/Q imaging in pulmonary contusion. Housman JF, et al. **Clin Nucl Med** 1989 Aug;14(8):577–9

Diagnosis of traumatic cardiac contusion utilizing single photon–emission computed tomography. Holness R, et al. **Crit Care Med** 1990 Jan;18(1):1–3

THERAPY

A plea for sensible management of myocardial contusion. Baxter BT, et al. **Am J Surg** 1989 Dec;158(6):557–61; discussion 561–2

[Pre-equatorial contusion syndrome. Analysis apropos of 59 cases] Bron A, et al. **J Fr Ophtalmol** 1989;12(3):211–20 (50 ref.) (Eng. Abstr.) **(Fre)**

[Severe contusions of the liver: therapeutic considerations apropos of 12 cases] Ferjani E, et al. **Tunis Med** 1989 Nov; 67(11):679–82 (Eng. Abstr.) **(Fre)**

CONUS VENOMS see **MOLLUSK VENOMS**

CONVALESCENCE

The work of getting well. 1969. [classical article] Norris CM. **Am J Nurs** 1990 Jul;90(7):47–50

Early return to work following highly selective vagotomy. Tulloch DN, et al. **Ann R Coll Surg Engl** 1989 Nov; 71(6):347–8

[Admission to health resorts/sanatoriums. The public health office between requirements and reality exemplified by sections 7 and 8 of the public assistance regulations] Plentz K, et al. **Off Gesundheitswes** 1989 Dec;51(12):770–3 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

[Various psychological factors of recovery] Tordera J. **Rev Med Suisse Romande** 1989 Nov;109(11):947–52 **(Fre)**

CONVALLATOXIGENIN see **STROPHANTHIDIN**

CONVERGENCE, OCULAR see under **EYE MOVEMENTS**

CONVERGENT STRABISMUS see **ESOTROPIA**

CONVERSION DISORDER

[The occurrence of less common psychogenic disorders in children] Stárková L, et al. **Cesk Psychiatr** 1990 Apr; 86(2):124–8 (Eng. Abstr.) **(Cze)**

CLASSIFICATION

[Classification of asthenic conditions (reactions, phases) in psychopathy] Sokolovskaia LV. **Zh Nevropatol Psikhiatr** 1989;89(11):110–4 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Covert psychiatric disturbance in patients with globus pharyngis. Deary IJ, et al. **Br J Med Psychol** 1989 Dec; 62 (Pt 4):381–9

Diagnosis and management of psychogenic stridor caused by a conversion disorder. Geist R, et al. **Pediatrics** 1990 Aug;86(2):315–7

DIAGNOSIS

Conversion disorder. Camouflage for brain lesions in two cases. Jones JB, et al. **Arch Intern Med** 1990 Jun; 150(6):1343–5

Natural history and outcome of psychogenic seizures: a clinical study in 50 patients. Lempert T, et al. **J Neurol** 1990 Feb;237(1):35–8

Outpatient referrals [letter] Nieman EA. **J Neurol Neurosurg Psychiatry** 1990 Jun;53(6):535–6

Clinical studies in psychogenic stuttering of adult onset. Roth CR, et al. **J Speech Hear Disord** 1989 Nov;54(4):634–46

Childhood conversion reactions in the emergency department: Part II—General and specific features. Schecker N. **Pediatr Emerg Care** 1990 Mar;6(1):46–51 (30 ref.)

Globus hystericus: a diagnosis of exclusion. Sandhu D, et al. **Practitioner** 1989 Feb 8;233(1462):124–5

[Significance of serum prolactin determination in the differential diagnosis of psychogenic seizures—exemplified by 2 case reports] Schmitt GM, et al. **Z Kinder Jugendpsychiatr** 1990 Mar;18(1):29–34 (Eng. Abstr.) **(Ger)**

[Characteristics of neurotic state and transmembrane transport of sodium in erythrocytes in hypertensive and cardiac variants of neurocirculatory dystonia] Kukharenko VIu, et al. **Kardiologiia** 1990 May;30(5):59–62 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

[Globus hystericus—reports on 25 ENT cases and literature review] Hsu CC, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Mar;43(3):213–6 (21 ref.) (Eng. Abstr.) **(Chi)**

ETIOLOGY

Hysterical conversion and dissociation arising as a complication of behavioural psychotherapy treatment of obsessive–compulsive neurosis. Bartlett AE, et al. **Br J Med Psychol** 1990 Jun;63 (Pt 2):109–15

[Clinical aspects of paroxysmal states in children with depression] Mamtseva VN. **Zh Nevropatol Psikhiatr** 1989; 89(8):85–90 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Hypnosis and conversion disorders. Van Dyck R, et al. **Am J Psychother** 1989 Oct;43(4):480–93 (37 ref.)

Is globus hystericus? [letter; comment] **Br J Psychiatry** 1989 May;154:727–8 Comment on: Br J Psychiatry 1988 Sep;153:335–9.

Psychogenic vomiting: the relation between patterns of vomiting and psychiatric diagnoses. Muraoka M, et al. **Gut** 1990 May;31(5):526–8

Dybbuk–possession as a hysterical symptom: psychodynamic and socio–cultural factors. Bilu Y, et al. **Isr J Psychiatry Relat Sci** 1989;26(3):138–49

[A hysterical symptom of astasia–abasia in a young male] Sirois F. **Psychiatr J Univ Ott** 1990 Mar;15(1):47–9 **(Fre)**

["Dora renaissance": progress in psychoanalytic theory and practice] Jennings JL. **Psyche (Stuttg)** 1990 May; 44(5):385–411 **(Ger)**

[Cognitive and psychological disorders following whiplash injury: 2 case reports concerning the controversy between the organic versus the psychogenic etiology of symptoms] Ettlin T, et al. **Schweiz Rundsch Med Prax** 1989 Sep 5; 78(36):967–9 (Eng. Abstr.) **(Ger)**

REHABILITATION

Somatic therapy for conversion disorder [letter] Lazarus A. **Psychosomatics** 1990 Summer;31(3):357–8

THERAPY

Atypical anorexia nervosa and hysterical symptomatology in a child with acute lymphocytic leukemia. A case management conference. Szajnberg NM, et al. **Clin Pediatr (Phila)** 1989 Dec;28(12):561–7

Emergency management of mass psychogenic illness. Gamino LA, et al. **Psychosomatics** 1989 Fall;30(4):446–9

CONVULSANTS

Nucleus basalis magnocellularis and memory: differential effects of two neurotoxins. Markowska AL, et al. **Behav Neural Biol** 1990 Jul;54(1):13–26

Quisqualate receptors in epileptic fowl: the absence of coupling between quisqualate and N–methyl–D–aspartate receptors. Pedder SC, et al. **Eur J Pharmacol** 1990 Jan 3;175(1):85–91

Proconvulsant effect of SKF 38393 mediated by nigral D1 receptors. al–Tajir G, et al. **Eur J Pharmacol** 1990 Jul 3; 182(2):245–51

Convulsant and anticonvulsant cyclopentanones and cyclohexanones. Holland KD, et al. **Mol Pharmacol** 1990 Jan;37(1):98–103

Molecular determinants of benzodiazepine receptor affinities and anticonvulsant activities. Villar HO, et al. **Mol Pharmacol** 1989 Oct;36(4):589–600

An examination of the proconvulsant actions of pyrethroid insecticides using pentylenetetrazol and amygdala kindling seizure models. Gilbert ME, et al. **Neurotoxicology** 1990 Spring;11(1):73–86

Oral administration of aspartame is not proconvulsant in rats. Tilson HA, et al. **Neurotoxicology** 1989 Summer; 10(2):229–38

A study of the possible mechanisms underlying the convulsant actions of a linear expanded xanthine. Collins GG, et al. **Pharmacol Toxicol** 1989 Oct;65(4):306–12

Kynuretic acid blocks spontaneous epileptiform bursts induced by 4–aminopyridine in rat amygdala neurons. Gean PW. **Proc Natl Sci Counc Repub China [B]** 1990 Jan; 14(1):40–6

gamma–Aminobutyric acid antagonism produced by an organophosphate–containing combustion product. Higgins GM, et al. **Toxicol Appl Pharmacol** 1990 Aug;105(1):103–12

ADMINISTRATION & DOSAGE

A simple intravenous infusion method in rodents for determining the potency of anticonvulsants acting through GABAergic mechanisms. Green AR, et al. **J Pharm Pharmacol** 1989 Dec;41(12):879–80

ADVERSE EFFECTS

Cardiazol–induced seizures and the concentration of lipid peroxides in the brain of rats under the influence of valproic acid and vitamin E. Sobaniec W, et al. **Neuropatol Pol** 1989; 27(2):229–36

[Effect of the destruction and activation of the caudate nuclei on the convulsive action of corazol kindling] Makul'kin RF, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):3–8 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Convulsant peptides related to corticotropin–releasing factor (CRF). Nomizu M, et al. **Brain Res** 1989 Dec 29; 505(2):326–8

Synthesis of substituted 7,12–dihydropyrido[3,2–b:5,4–b']diindoles: rigid planar benzodiazepine receptor ligands with inverse agonist/antagonist properties. Trudell ML, et al. **J Med Chem** 1990 Sep;33(9):2412–20

[Synthesis and study of the convulsant action of polycyclic amino–gamma–lactone and of its tetrahydrofuran analogue] Kolocouris N, et al. **Ann Pharm Fr** 1989;47(3):126–34 (Eng. Abstr.) **(Fre)**

METABOLISM

GABAA receptor subtypes: autoradiographic comparison of GABA, benzodiazepine, and convulsant binding sites in the rat central nervous system. Olsen RW, et al. **J Chem Neuroanat** 1990 Jan–Feb;3(1):59–76

Binding interactions of convulsant and anticonvulsant gamma–butyrolactones and gamma–thiobutyrolactones with the picrotoxin receptor. Holland KD, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):578–83

Diazepam enhances bicuculline–induced increase of t–[35S]butylbicyclophosphorothionate binding in unwashed membrane preparations from rat cerebral cortex. Concas A, et al. **Neurosci Lett** 1990 Apr 20;112(1):87–91

PHARMACOLOGY

Convulsants induce interleukin–1 beta messenger RNA in rat brain. Minami M, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):832–7

Involvement of multiple opiate receptors in opioid kindling. Cain DP, et al. **Brain Res** 1990 May 28;517(1–2):236–44

Suppressive effects of intranigral injection of muscimol in three models of generalized non–convulsive epilepsy induced by chemical agents. Depaulis A, et al. **Brain Res** 1989 Sep 25;498(1):64–72

Physiological modulation of the GABA receptor by convulsant and anticonvulsant barbiturates in cultured rat hippocampal neurons. Holland KD, et al. **Brain Res** 1990 May 14;516(1):147–50

MPTP is proconvulsant acutely but has no long–term effect in rodent models of seizure and epilepsy. Van Ness PC, et al. **Brain Res** 1989 Dec 18;504(2):289–92

Animal models of the epilepsies. Fisher RS. **Brain Res Brain Res Rev** 1989 Jul–Sep;14(3):245–78 (332 ref.)

Long–term effects of the administration of the convulsive substance DL–methionine–DL–sulfoximine to the rabbit. Apostolakis M, et al. **Brain Res Bull** 1989 Sep;23(3):257–62

MK–801 protects against seizures induced by the cholinesterase inhibitor soman. Braitman DJ, et al. **Brain Res Bull** 1989 Jul–Aug;23(1–2):145–8

Electroencephalographic evidence for a dose–related biphasic effect of morphine on bicuculline–induced seizures in the rat. Massotti M, et al. **Epilepsy Res** 1989 Sep–Oct; 4(2):81–9

Folates: epileptogenic effects and enhancing effects on [3H]TBOB binding to the GABAA–receptor complex. Van Rijn CM, et al. **Epilepsy Res** 1990 Apr;5(3):199–208

Effects of convulsive doses of penicillin on the metabolism of single neurons. Epstein MH, et al. **Exp Neurol** 1966 Jun; 15(2):172–9

Magnesium deficiency affects the pentylenetetrazol–induced convulsions in magnesium–deprived rats. Lopiano L, et al. **Funct Neurol** 1989 Jul–Sep;4(3):229–34

Naltrexone potentiates 4–aminopyridine seizures in the rat. Mihály A, et al. **J Neural Transm Gen Sect** 1990; 79(1–2):59–67

The epileptogenic action of the taurine analogue guanidinoethane sulfonate may be caused by a blockade

of GABA receptors. Herranz AS, et al. **J Neurosci Res** 1990 May;26(1):98–104

Benzodiazepine agonist and inverse agonist actions on GABAA receptor–operated chloride channels. I. Acute effects of ethanol. Buck KJ, et al. **J Pharmacol Exp Ther** 1990 May;253(2):706–12

Benzodiazepine agonist and inverse agonist actions on GABAA receptor–operated chloride channels. II. Chronic effects of ethanol. Buck KJ, et al. **J Pharmacol Exp Ther** 1990 May;253(2):713–9

Effects of peripheral benzodiazepine receptor ligands on hypothalamic–pituitary–adrenal axis function in the rat. Calogero AE, et al. **J Pharmacol Exp Ther** 1990 May; 253(2):729–37

Tannins inhibit the occurrence of epileptic focus induced by FeCl3 injection in rats. Yokoi I, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):552–3

A study of 5'-nucleotidase activity in subcellular fractions of rat cerebellum after the administration of the convulsant 3–mercaptopropionic acid. Girardi E, et al. **Mol Chem Neuropathol** 1989 Oct;11(2):65–75

Electrophysiological study of tert–butylbicyclophosphorothionate–induced block of spontaneous chloride channels. Hamann M, et al. **Mol Pharmacol** 1990 Apr;37(4):578–82

Effect of methionine sulfoximine on pyruvate dehydrogenase, citric acid cycle enzymes and aminotransferases in the subcellular fractions isolated from rat cerebral cortex. Ratnakumari L, et al. **Neurosci Lett** 1990 Jan 22; 108(3):328–34

Lesions of the deep prepiriform cortex ('area tempestas') in rats do not affect the convulsant action of systemically administered bicuculline. Wahnschaffe U, et al. **Neurosci Lett** 1990 Jan 1;108(1–2):161–6

Ventral hippocampal dentate granule cell lesions enhance motor seizures but reduce wet dog shakes induced by mu opioid receptor agonist. Lee PH, et al. **Neuroscience** 1990; 35(1):71–7

beta–Carboline–induced seizures in mice: genetic analysis. Desforges C, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):733–7

Behavioral effects induced by beta CCE in free or restrained rhesus monkeys (Macaca mulatta). Lagarde D, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):713–9

[The neurodegenerative and convulsant action of quinolinic acid] Kozlovskiĭ VL, et al. **Neirofiziologiia** 1990;22(3):354–9 (Eng. Abstr.) **(Rus)**

[Disorders in the behavioral development of rats in ontogeny after a single administration of quinolinic acid] Kozlovskiĭ VL, et al. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr; 26(2):207–12 (Eng. Abstr.) **(Rus)**

[The effect of quinolinic acid, an endogenous neurotoxin, on the conditioned passive–avoidance reflex in rats] Kozlovskiĭ VL, et al. **Zh Vyssh Nerv Deiat** 1990 Jan–Feb; 40(1):66–70 **(Rus)**

THERAPEUTIC USE

Flurothyl (Indoklon). Experience with an inhalational convulsant agent. Rose L, et al. **Anaesthesia** 1967 Jul; 22(3):425–34

CONVULSIONS

see related
ECLAMPSIA
EPILEPSY
KINDLING (NEUROLOGY)

A new neurocutaneous syndrome. Marden PM, et al. **Am J Dis Child** 1966 Jul;112(1):79–81

[Neuropeptides and seizures] Wu X. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):374–7 (35 ref.) **(Chi)**

CHEMICALLY INDUCED

Protective effect of nifedipine on convulsive NEFA increase in CNS. Sklenovský A, et al. **Act Nerv Super (Praha)** 1990 Mar;32(1):51–3

Convulsions and propofol [letter] Shearer ES. **Anaesthesia** 1990 Mar;45(3):255–6

Pro– and anticonvulsant effects of anesthetics (Part II). Modica PA, et al. **Anesth Analg** 1990 Apr;70(4):433–44 (122 ref.)

Pro– and anticonvulsant effects of anesthetics (Part I). Modica PA, et al. **Anesth Analg** 1990 Mar;70(3):303–15 (156 ref.)

Increased concentration of aluminium in the brain of a parenterally fed preterm infant. Bishop NJ, et al. **Arch Dis Child** 1989 Sep;64(9):1316–7

Convulsions induced by enoximone administered as a continuous intravenous infusion. Appadurai I, et al. **BMJ** 1990 Mar 3;300(6724):613–4

Risks and benefits of antimalarial drugs [letter; comment] Fish DR, et al. **BMJ** 1989 Dec 16;299(6714):1524 Comment on: BMJ 1989 Oct 28;299(6707):1057–8.

Flumazenil causing convulsions and ventricular tachycardia. Marchant B, et al. **BMJ** 1989 Sep 30;299(6703):860

Convulsions induced by centrally administered NMDA in mice: effects of NMDA antagonists, benzodiazepines, minor tranquilizers and anticonvulsants. Moreau JL, et al. **Br J Pharmacol** 1989 Nov;98(3):1050–4

Is monofluoracetic acid the active neurotoxic principle in Palicourea marcgravii (St. Hill) leaves? Eckschmidt M, et al. **Braz J Med Biol Res** 1989;22(8):975–7

Dose–dependent neurotoxicity of high–dose busulfan in children: a clinical and pharmacological study. Vassal G, et al. **Cancer Res** 1990 Oct 1;50(19):6203–7

Convulsions induced by aminocaproic acid infusion. Rabinovici R, et al. **DICP** 1989 Oct;23(10):780–1

Ethacrynic acid–induced convulsions and brain noradrenaline in mice. Inoue M, et al. **Eur J Pharmacol** 1990 Apr 10;179(1–2):221–3

Tolerance develops to spinal morphine analgesia but not morphine–induced convulsions. Yoburn BC, et al. **Eur J Pharmacol** 1990 Jan 25;176(1):63–7

Studies on the potential neurotoxic and convulsant effects of increased blood levels of quinolinic acid in rats with altered blood–brain barrier permeability. Vezzani A, et al. **Exp Neurol** 1989 Oct;106(1):90–8

The effect of beta–adrenoceptor antagonists alone and in combination with a GABA–elevating agent on isoniazid–induced convulsions in rats. Paul V, et al. **Indian J Physiol Pharmacol** 1989 Jul–Sep;33(3):175–8

Meropenem: evidence of lack of proconvulsive tendency in mice. Patel JB, et al. **J Antimicrob Chemother** 1989 Sep; 24 Suppl A:307–9

Spider toxin (JSTX–3) inhibits the convulsions induced by glutamate agonists. Himi T, et al. **J Neural Transm Gen Sect** 1990;80(2):95–104

Dual species dependent effect of dihydroergosine on the convulsions induced by GABA antagonists. Peričić D, et al. **J Neural Transm Gen Sect** 1990;79(1–2):125–9

Antagonism of gamma–aminobutyric acidA receptor–mediated responses by amino–gamma–carbolines. Kanai Y, et al. **J Pharmacol Exp Ther** 1990 Mar; 252(3):1269–76

Selective blockade of N–methyl–D–aspartate (NMDA)–induced convulsions by NMDA antagonists and putative glycine antagonists: relationship with phencyclidine–like behavioral effects. Koek W, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):349–57

Kinetics of drug action in disease states. XXXVII. Effects of acute fluid overload and water deprivation on the hypnotic activity of phenobarbital and the neurotoxicity of theophylline in rats. Zhi JG, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):827–32

Model of bronchial hyperreactivity after active anaphylactic shock in conscious guinea pigs. Tarayre JP, et al. **J Pharmacol Methods** 1990 Mar;23(1):13–9

Severe self–poisoning with oxetorone: report of one case. Galerneau V, et al. **J Toxicol Clin Toxicol** 1990;28(1):111–6

Some correlations between procaine–induced convulsions and monoamines in the spinal cord of rats. Sawaki K, et al. **Jpn J Pharmacol** 1989 Nov;51(3):369–76

Penicillin–induced convulsions have preferential effects on transmitter glutamate pools in rat neostriatum. Furset K, et al. **Neurochem Res** 1989 Nov;14(11):1143–7

Soman– or kainic acid–induced convulsions decrease muscarinic receptors but not benzodiazepine receptors. Churchill L, et al. **Neurotoxicology** 1990 Spring;11(1):57–71

Kinetics and thresholds of several indices of lindane–induced toxicity. Woolley DE, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):787–92

Daily changes in pentylenetetrazol–induced convulsions and open–field behavior in rats. Eidman DS, et al. **Physiol Behav** 1990 May;47(5):853–6

Serotonin as a facilitatory neurotransmitter in the anticonvulsant activity of methaqualone. Leadbetter MI, et al. **Physiol Behav** 1989 Jul;46(1):105–6

Strychnine poisoning as an unusual cause of convulsions. Burn DJ, et al. **Postgrad Med J** 1989 Aug;65(766):563–4

Potentiation of malaoxon–induced convulsions by lithium: early neuronal injury, phosphoinositide signaling, and calcium. Hirvonen MR, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):276–89

[Seizures and opistotonus after propofol anesthesia. A possible connection] Bredahl C. **Ugeskr Laeger** 1990 Mar 12;152(11):748–9 (Eng. Abstr.) **(Dan)**

[Convulsions in a patient treated with pefloxacin and theophylline (letter)] Conri C, et al. **Therapie** 1990 Jul–Aug; 45(4):358 **(Fre)**

[Effect of the destruction and activation of the caudate nuclei on the convulsive action of corazol kindling] Makul'kin RF, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):3–8 (Eng. Abstr.) **(Rus)**

[A complication of conduction anesthesia] Petin GI, et al. **Klin Khir** 1989;(12):48 **(Rus)**

[Convulsions and multifocal auricular tachycardia induced by theophylline (letter)] García Panhón E, et al. **Rev Clin Esp** 1989 Nov;185(7):380 **(Spa)**

CLASSIFICATION

[Problem of classification of convulsions in newborn infants and young children] Tychina VP. **Pediatriia** 1990;(2):78–82 **(Rus)**

COMPLICATIONS

Seizures in the course of hepatitis A [letter] Dollberg S, et al. **Am J Dis Child** 1990 Feb;144(2):140–1

Bilateral anterior dislocation of the shoulder following a grand–mal convulsion. Ribbans WJ. **Br J Clin Pract** 1989 May;43(5):181–2

Severe, self–limiting lactic acidosis and rhabdomyolysis accompanying convulsions. Winocour PH, et al. **Postgrad Med J** 1989 May;65(763):321–2

[Proximal bilateral humeral fractures with posterior dislocation of the head of the humerus] Kristensen W, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1831–2 (Eng. Abstr.) **(Dan)**

[A study of the sequelae of perinatal hypoxia and convulsions in full–term newborn infants] Groenendaal F, et al. **Ned Tijdschr Geneeskd** 1990 Jun 23;134(25):1223–7 (Eng. Abstr.) **(Dut)**

DIAGNOSIS

[The prognosis of convulsions in the newborn—the place of EEG in comparison with echoencephalography] Staudt F. **EEG EMG** 1990 Jun;21(2):118–25 (Eng. Abstr.) **(Ger)**

[Clinical characteristics of the convulsion syndrome in newborn infants] Zhurba LT, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):3–6 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Differential effects of agents enhancing purinergic transmission upon the antielectroshock efficacy of carbamazepine, diphenylhydantoin, diazepam, phenobarbital, and valproate in mice. Czuczwar SJ, et al. **J Neural Transm Gen Sect** 1990;81(2):153–66

Effect of straight chain fatty acids on seizures induced by picrotoxin and pentylenetetrazole in mice. Nakamura J, et al. **J Pharmacobiodyn** 1990 Jan;13(1):76–81

Management of heat stroke [letter] Greenslade GL. **J R Nav Med Serv** 1989 Spring;75(1):53

Intravenous lidocaine in the treatment of convulsions in the neonatal period: monitoring plasma levels. Rey E, et al. **Ther Drug Monit** 1990 Jul;12(4):316–20

[Effect of glutamic acid palmitamide or linoleamide on convulsions induced by pentetrazole] Vamvakidès A. **Agressologie** 1989 Sep;30(8):469–71 (Eng. Abstr.) **(Fre)**

[New aspects of anticonvulsive therapy in severe pre–eclampsia and eclampsia] Oney T, et al. **Geburtshilfe Frauenheilkd** 1989 Oct;49(10):906–14 (75 ref.) (Eng. Abstr.) **(Ger)**

[Antiepileptic action of Ca antagonist, flunarizine] Otomo E. **Nippon Rinsho** 1989 Aug;47(8):1842–6 **(Jpn)**

[Interaction of valproic acid and erythromycin] Sánchez Romero A, et al. **An Esp Pediatr** 1990 Jan;32(1):78–9 **(Spa)**

[Proposal for a scale for the assessment and treatment of febrile convulsions] Santolaya Jiménez JM, et al. **An Esp Pediatr** 1989 Aug;31(2):122–6 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

[Neuron–specific enolase activities in patients with convulsion] Nozaki H, et al. **No To Hattatsu** 1989 Jul; 21(4):394–6 **(Jpn)**

ETIOLOGY

New issues for nosografic setting of "HELLP syndrome". Vegna G, et al. **Acta Eur Fertil** 1989 Mar–Apr;20(2):99–100

Convulsions induced by canatoxin in rats are probably a consequence of hypoxia. Ribeiro–DaSilva G, et al. **Braz J Med Biol Res** 1989;22(7):877–80

Demonstration of a little known cause of infantile epilepsy, occipital porencephaly, by computerized tomography (CT). Gastaut H, et al. **Comput Tomogr** 1977;1(4):323–30

Neonatal convulsions. Fernandez A. **Indian Pediatr** 1988 Oct; 25 Suppl:52–5

Family history of convulsions and use of pertussis vaccine. Livengood JR, et al. **J Pediatr** 1989 Oct;115(4):527–31

Convulsions in children undergoing renal transplantation. McEnery PT, et al. **J Pediatr** 1989 Oct;115(4):532–6

Childhood shigellosis: clinical and bacteriological study. Daoud AS, et al. **J Trop Med Hyg** 1990 Aug;93(4):275–9

[Convulsion in burned children and its treatment] Heng DZ. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):121 **(Chi)**

[Convulsive seizures and heterotopic gray matter; report of two cases] Higuchi T, et al. **Rinsho Hoshasen** 1990 Jun; 35(6):725–8 (12 ref.) (Eng. Abstr.) **(Jpn)**

[A case of cerebrotendinous xanthomatosis with convulsive seizures] Matsumuro K, et al. **Rinsho Shinkeigaku** 1990 Feb; 30(2):207–9 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Neurological status and psychomotor development of infants with dilated pericerebral space] Wendorff J, et al. **Pediatr Pol** 1989 Oct–Dec;64(10–12):605–11 (Eng. Abstr.) **(Pol)**

[Paroxysmal conditions in neuroses] Diukova GM, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):12–8 (Eng. Abstr.) **(Rus)**

[Paroxysmal disorders during the clinical course of alcoholism (review of the literature)] Karpiak VM. **Zh Nevropatol Psikhiatr** 1989;89(7):132–40 (133 ref.) **(Rus)**

[Clinical aspects of paroxysmal states in children with depression] Mamtseva VN. **Zh Nevropatol Psikhiatr** 1989; 89(8):85–90 (Eng. Abstr.) **(Rus)**

[Acute hemiplegia in childhood and alternating hemiconvulsions secondary to Moya–Moya disease. Report of a case associated with Down's syndrome]

Cornelio-Nieto JO, et al. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):39–42 (Eng. Abstr.) **(Spa)**

[Cerebral infarction in full-term newborn infants with convulsions] Devilat M, et al. **Rev Chil Pediatr** 1988 Sep–Oct;59(5):334–8 (Eng. Abstr.) **(Spa)**

METABOLISM

Effect of Metrazol convulsions on 35S entry into cat central nervous system. Lorenzo AV, et al. **Am J Physiol** 1967 Jun;212(6):1277–87

Differential prostaglandin formation induced by convulsions in the brain of mice susceptible (DBA/2J) and resistant (CFLP) to acoustic stimulation. Seregi A, et al. **Epilepsy Res** 1990 Mar;5(2):131–6

[Somatostatin and seizures] Liang WL, et al. **Sheng Li Ke Hsueh Chin Chan** 1990 Apr;21(2):164–6 (25 ref.) **(Chi)**

[Involvements of neuropeptides in pentylenetetrazol-induced convulsion in rats and effects of TRH and ceruletide on the convulsion] Hashiguchi S, et al. **No To Shinkei** 1990 Jan;42(1):73–8 (Eng. Abstr.) **(Jpn)**

[Changes in the content of neuromediator amino acids in the brain of mice with a convulsive syndrome induced by the hyperactivation of CNS cholinergic structures] Astrov VV, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):268–9 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Effects of anticonvulsants on hippocampal afterdischarges evaluated by means of syntactic analysis. Rump S, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):113–5

Neuromagnetic topography of photoconvulsive response in man. Ricci GB, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):1–12

Suppression of clinical weakness in experimental autoimmune encephalomyelitis associated with weight changes, and post-decapitation convulsions after intracisternal-ventricular administration of 6-hydroxydopamine. Konkol RJ, et al. **J Neuroimmunol** 1990 Jan;26(1):25–34

Quantitative autoradiographic study of benzodiazepine receptors: comparative study between normal ddY mouse and El mouse. Shirasaka Y, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):563–4

Opiate receptor phenomenon: proconvulsant action of morphine in the mouse. Mannino RA, et al. **Life Sci** 1974 Dec 15;15(12):2089–96

[Significance of the hippocampus in the development of convulsive syndrome by kindling electrostimulation of the caudate nucleus] Timofeeva OA. **Biull Eksp Biol Med** 1989 Aug;108(8):145–7 (Eng. Abstr.) **(Rus)**

[A spectral analysis and mathematical modelling of the brain electrical activity in normal rats and in genetically conditioned convulsibility] Medvedev AV, et al. **Neirofiziologiia** 1990;22(2):184–93 (Eng. Abstr.) **(Rus)**

[The long-term action of camphor on "audiosensitive" rats: electrophysiological research and mathematical modelling of the properties of the neuronal networks] Medvedev AV. **Neirofiziologiia** 1990;22(2):193–200 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

The prevention of convulsions during benzodiazepine withdrawals [letter] Scott RT. **Br J Gen Pract** 1990 Jun; 40(335):261

The effect of monoamine depletors on metrazol induced convulsions and brain gamma-aminobutyric acid (GABA) contents in rats. Abed WT. **J Pharm Pharmacol** 1989 Nov; 41(11):807–8

Comparison of anticonvulsant effect of ethanol against NMDA-, kainic acid- and picrotoxin-induced convulsions in rats. Kulkarni SK, et al. **Life Sci** 1990;46(7):481–7

Protection against cyanide-induced convulsions with alpha-ketoglutarate. Yamamoto H. **Toxicology** 1990 Apr 30;61(3):221–8

[Factors influencing the effectiveness of preventive treatment of febrile convulsions] Herranz Fernández JL, et al. **An Esp Pediatr** 1989 Aug;31(2):118–21 (Eng. Abstr.) **(Spa)**

THERAPY

Compliance with a standard for the emergency department management of epileptics who present after an uncomplicated convulsion. Baraff LJ, et al. **Ann Emerg Med** 1990 Apr;19(4):367–72

CONVULSIONS, FEBRILE

Febrile convulsion—a clinical survey and a review of its current concept of management. Saw AH, et al. **J Singapore Paediatr Soc** 1989;31(3–4):143–6

BLOOD

Elevated serum creatine kinase. Following febrile seizures. Lahat E, et al. **Clin Pediatr (Phila)** 1989 Oct;28(10):449–51

Cerebrospinal fluid/serum lactic acid in febrile convulsions. Imuekemhe SO, et al. **East Afr Med J** 1989 Sep; 66(9):589–93

CEREBROSPINAL FLUID

5-Hydroxyindoleacetic acid and homovanillic acid in cerebrospinal fluid of children with febrile convulsions. Giroud M, et al. **Epilepsia** 1990 Mar–Apr;31(2):178–81

[Taurine in the cerebrospinal fluid in febrile convulsions in children] Ghisolfi J, et al. **Pediatrie** 1989;44(1):41–4 (Eng. Abstr.) **(Fre)**

CHEMICALLY INDUCED

Convulsion associated with fever following hepatitis B vaccination [letter] Hartman S. **J Paediatr Child Health** 1990 Feb;26(1):65

Whooping cough vaccine [letter] Mercer H. **J Paediatr Child Health** 1990 Feb;26(1):65

Antibiotic induced convulsions [letter] Paul GA. **N Z Med J** 1989 Oct 11;102(877):538–9

COMPLICATIONS

Viral infections in febrile seizures [letter] Offringa M, et al. **J Pediatr** 1990 Sep;117(3):510–1

Unsuspected bacterial infections in febrile convulsions. McIntyre PB, et al. **Med J Aust** 1990 Feb 19;152(4):183–6

[Clinical evaluation of the patients with epilepsy following febrile convulsions] Konishi T, et al. **No To Hattatsu** 1990 May;22(3):230–4 (Eng. Abstr.) **(Jpn)**

[Febrile convulsion. A clinical study of 303 patients] Calderón-González R, et al. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):7–13 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

[Possibilities of the diagnosis and the evaluation of epilepsy risk based on the data of EEG spectrum analysis in children and adolescents] Zenkov LR, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):20–2 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Convulsions in the older infant [letter; comment] Newton RW. **BMJ** 1990 Jan 13;300(6717):122 Comment on: BMJ 1989 Nov 25;299(6711):1331–3.

Intermittent treatment with clonazepam in simple febrile seizures [letter] Arcas Martinez J, et al. **Brain Dev** 1990; 12(2):274–5

Intention to treat febrile convulsions with rectal diazepam, valproate or phenobarbitone. McKinlay I, et al. **Dev Med Child Neurol** 1989 Oct;31(5):617–25

Febrile seizures: current concepts concerning prognosis and clinical management [see comments] Applegate MS, et al. **J Fam Pract** 1989 Oct;29(4):422–8 (42 ref.) Comment in: J Fam Pract 1990 Mar;30(3):262.

Erythromycin-induced carbamazepine intoxication in two epileptic children. Tagawa T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):513–4

Treatment of epilepsy and febrile convulsions in children. Rylance GW. **Lancet** 1990 Aug 25;336(8713):488–91 (29 ref.)

Phenobarbital for pediatric febrile seizures: risk-benefit update. Engel NS. **MCN** 1990 Jul–Aug;15(4):257

Phenobarbital for febrile seizures [letter] **N Engl J Med** 1990 Aug 16;323(7):484–6

Phenobarbital for febrile seizures—effects on intelligence and on seizure recurrence. Farwell JR, et al. **N Engl J Med** 1990 Feb 8;322(6):364–9

EPIDEMIOLOGY

A prospective incidence study of febrile convulsions. Forsgren L, et al. **Acta Paediatr Scand** 1990 May; 79(5):550–7

Risk of febrile seizures in childhood in relation to prenatal maternal cigarette smoking and alcohol intake. Cassano PA, et al. **Am J Epidemiol** 1990 Sep;132(3):462–73; discussion 474–8

Recurrence of febrile convulsions in a population-based cohort. Annegers JF, et al. **Epilepsy Res** 1990 Apr; 5(3):209–16

Febrile seizures [letter; comment] Verburgh ME. **J Fam Pract** 1990 Mar;30(3):262 Comment on: J Fam Pract 1989 Oct;29(4):422–8.

Prognosis and risk factors in febrile convulsions: a prospective study of 150 children in Kuwait. Bessiso MS, et al. **Neuroepidemiology** 1990;9(2):78–87

ETIOLOGY

Prenatal and perinatal antecedents of febrile seizures. Nelson KB, et al. **Ann Neurol** 1990 Feb;27(2):127–31

Effect of fever on recurrence rate of febrile convulsions [letter; comment] Murch S. **Arch Dis Child** 1990 Mar; 65(3):333–4 Comment on: Arch Dis Child 1989 Jun;64(6):869–70.

The prognosis of convulsions during childhood shigellosis. Zvulunov A, et al. **Eur J Pediatr** 1990 Jan;149(4):293–4

Predictors of recurrent febrile seizures: a metaanalytic review. Berg AT, et al. **J Pediatr** 1990 Mar;116(3):329–37

Seizures associated with fever in children [letter] Ramadas D, et al. **J Trop Pediatr** 1990 Feb;36(1):46

Hypozincemia during fever may trigger febrile convulsion. Izumi Y, et al. **Med Hypotheses** 1990 May;32(1):77–80 (53 ref.)

Relationship of pertussis immunization to the onset of epilepsy, febrile convulsions and central nervous system infections: a retrospective epidemiologic study. Jacobson V, et al. **Tokai J Exp Clin Med** 1988;13 Suppl:137–42

[Febrile convulsions] Lausecker M, et al. **Wien Med Wochenschr** 1989 Sep 30;139(18): 432–3 **(Ger)**

GENETICS

Trisomy 12p syndrome: a chromosomal disorder associated with generalized 3-Hz spike and wave discharges. Guerrini R, et al. **Epilepsia** 1990 Sep–Oct;31(5):557–66

MICROBIOLOGY

Viral infections and recurrences of febrile convulsions. Rantala H, et al. **J Pediatr** 1990 Feb;116(2):195–9

PHYSIOPATHOLOGY

Clinical study of epileptic children with history of febrile convulsion. Yamatani M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):490–1

[Spectrum analysis of the EEG in children and adolescents with epilepsy: general characteristics and pathophysiological interpretation of the data] Karlov VA, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):15–9 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Double-blind, randomized trial of diazepam versus placebo for prevention of recurrence of febrile seizures. Autret E, et al. **J Pediatr** 1990 Sep;117(3):490–4

Phenobarbitone and epilepsy [letter] Ehrhardt P. **Lancet** 1990 Sep 15;336(8716):687

THERAPY

The first year of life. Convulsions in the older infant [see comments] Valman HB. **BMJ** 1989 Nov 25; 299(6711):1331–3 (0 ref.) Comment in: BMJ 1990 Jan 13;300(6717):122.

[Effectiveness of electroconvulsive therapy in the light of current approaches to the treatment of febrile conditions in schizophrenia] Moshchevitin SIu, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):114–21 (Eng. Abstr.) **(Rus)**

CONVULSIVE THERAPY

ADVERSE EFFECTS

Insulin coma therapy in the treatment of early schizophrenia. Masiak M, et al. **Mater Med Pol** 1989 Jan–Mar;21(1):60–2

METHODS

[A reduced variant of convulsive therapy with ammonium chloride in patients with neurotic depression] Saarma IuM, et al. **Zh Nevropatol Psikhiatr** 1990;90(5):69–73 (Eng. Abstr.) **(Rus)**

CONVULSIVE THERAPY, ELECTRIC see **ELECTROCONVULSIVE THERAPY**

COOKERY

Pasta cooking time: influence on starch digestion and plasma glucose and insulin responses in healthy subjects. Bornet FR, et al. **Am J Clin Nutr** 1990 Mar;51(3):421–7

Food safety awareness [letter; comment] Elliman A, et al. **BMJ** 1989 Nov 11;299(6709):1223 Comment on: BMJ 1989 Sep 23;299(6702):771–3.

Influence of creatine, amino acids and water on the formation of the mutagenic heterocyclic amines found in cooked meat. Overvik E, et al. **Carcinogenesis** 1989 Dec; 10(12):2293–301

Enzyme induction by eating charcoal-grilled steak with no effect on blood lipids. Heller RF, et al. **Clin Exp Pharmacol Physiol** 1989 Oct;16(10):783–8

The formation and properties of wheat flour doughs. Hoseney RC, et al. **Crit Rev Food Sci Nutr** 1990;29(2):73–93 (109 ref.)

Indoor air pollution in a Kenyan village. Wafula EM, et al. **East Afr Med J** 1990 Jan;67(1):24–32

Effect of cooking on availability and in vitro nitrosation of precursors of volatile N-nitroso compounds in seafood. Lintas C, et al. **Food Addit Contam** 1990 Jan–Feb;7(1):37–42

Volatile nitrosamines in microwave-cooked bacon. Osterdahl BG, et al. **Food Addit Contam** 1990 Jan–Feb;7(1):51–4

Mutagenicity of basic fractions derived from lamb and beef cooked by common household methods. Barrington PJ, et al. **Food Chem Toxicol** 1990 Mar;28(3):141–6

Mutagenicity of deep-frying fat, and evaluation of urine mutagenicity after consumption of fried potatoes. Hageman G, et al. **Food Chem Toxicol** 1990 Feb;28(2):75–80

A 91-day feeding study in rats with heated olestra/vegetable oil blends. Miller KW, et al. **Food Chem Toxicol** 1990 May; 28(5):307–15

Mutagen excretion and cytochrome P-450-dependent activity in germfree and conventional rats fed a diet containing fried meat. Overvik E, et al. **Food Chem Toxicol** 1990 Apr;28(4):253–61

The feasibility of making soups from rice flour and hydrolyzed rice. Amussen HW, et al. **J Am Diet Assoc** 1990 Jul;90(7):991–3

Demonstration increases recipe use among Hawaii graduates of the Expanded Food and Nutrition Education Program.

Boushey CJ, et al. **J Am Diet Assoc** 1989 Nov;89(11):1656–8
Calcium content of soup stocks with added vinegar. Hadfield LC, et al. **J Am Diet Assoc** 1989 Dec;89(12):1810–1
Dry heat popping of amaranth seed might damage some of its essential amino acids. Tovar LR, et al. **Plant Foods Hum Nutr** 1989 Dec;39(4):299–309
Metabolism of heterocyclic amines in cooked food. Alexander J, et al. **Prog Clin Biol Res** 1990;340E:159–68 (25 ref.)
Epidemiologic studies of fecal mutagenicity, cooked meat ingestion, and risk of colorectal cancer. Schiffman MH, et al. **Prog Clin Biol Res** 1990;340E:205–14
Monoclonal antibody based immunoassays for cooking-induced meat mutagens. Vanderlaan M, et al. **Prog Clin Biol Res** 1990;340E:189–98
[Genotoxic agents in human food] Srb V. **Cesk Zdrav** 1990 Mar;38(3):135–40 (Eng. Abstr.) **(Cze)**
[Bavaroise and an epidemic of Salmonella enteritidis (letter)] Wentges RT. **Ned Tijdschr Geneeskd** 1990 Aug 4; 134(31):1514–5 **(Dut)**

INSTRUMENTATION

Radiation leakage levels from microwave ovens [letter] Moseley H, et al. **Ann Occup Hyg** 1989;33(4):653–4

STANDARDS

Processing of commercial peanut cake into food-grade meal and its utilization in preparation of cookies. Tate PV, et al. **Plant Foods Hum Nutr** 1990 Apr;40(2):115–21
[The acquisition of a certificate of expert knowledge for kitchen chefs from the viewpoint of the district hygiene inspectorate] Becker K, et al. **Z Gesamte Hyg** 1990 May; 36(5):260–2 (Eng. Abstr.) **(Ger)**

COOKING AND EATING UTENSILS

Kitchen aids. Connolly MJ, et al. **BMJ** 1990 Jul 14; 301(6743):114–5
Flame burns involving kerosene pressure stoves in India. Sawhney CP. **Burns** 1989 Dec;15(6):362–4
An unusual gastric foreign body in a pregnant patient. Kunstler WE, et al. **Can Med Assoc J** 1966 Apr 30; 94(18):965–6
Headspace analysis of benzene in food contact materials and its migration into foods from plastics cookware. Jickells SM, et al. **Food Addit Contam** 1990 Mar-Apr;7(2):197–205
Release of formaldehyde and melamine from tableware made of melamine–formaldehyde resin. Sugita T, et al. **Food Addit Contam** 1990 Jan–Feb;7(1):21–7
Influence of automatic dishwashings and scrubbings on release of lead from glazed ceramicware. Gould JH, et al. **J Assoc Off Anal Chem** 1990 May–Jun;73(3):401–4
[Carbon monoxide poisoning caused by a hot plate] Bauer G, et al. **Arch Kriminol** 1989 Nov–Dec;184(5–6):161–7 (Eng. Abstr.) **(Ger)**
[Antimony and other heavy metals in metallic kitchen ware] Ishiwata H, et al. **Eisei Shikenjo Hokoku** 1989;(107):134–7 (Eng. Abstr.) **(Jpn)**

COOMBS' TEST

An enzyme-linked antiglobulin test for assessing anti-D immunoglobulin preparations. Ruiz M, et al. **Biologicals** 1990 Apr;18(2):89–95
Assisted procreation in the presence of a positive direct mixed antiglobulin reaction test. Palermo G, et al. **Fertil Steril** 1989 Oct;52(4):645–9
Pernicious anemia, vitiligo and positive antiglobulin test: an unusual association. Pelosio A, et al. **Haematologica (Pavia)** 1989 Sep–Oct;74(5):499–501
Polyethylene glycol in immune reactions [letter; comment] Grundbacher FJ. **Transfusion** 1989 Oct;29(8):750–1 Comment on: Transfusion 1989 Mar–Apr;29(3):218–20.
Evaluation of the polyethylene glycol–indirect antiglobulin test for routine compatibility testing. Slater JL, et al. **Transfusion** 1989 Oct;29(8):686–8
Solid-phase antiglobulin test for screening and identification of red cell antibodies. Uthemann H, et al. **Transfusion** 1990 Feb;30(2):114–6
Invalidation of antiglobulin tests by a high thermal amplitude cryoglobulin. Ylagen ES, et al. **Transfusion** 1990 Feb; 30(2):154–7
Evaluation of the polyethylene glycol antiglobulin test for detection of red blood cell antibodies. de Man AJ, et al. **Vox Sang** 1990;58(3):207–10
[Clinical significance of the antiglobulin test] Suzuki H. **Nippon Rinsho** 1990 Feb;48 Suppl:526–8 **(Jpn)**

HISTORY

The discovery of the enzyme test for Rh antibodies [letter] ickles MM. **Vox Sang** 1989;57(3):223–4

METHODS

Evaluation of the polyethylene glycol–potentiated indirect antiglobulin test. Wenz B, et al. **Transfusion** 1990 May; 30(4):318–21
[Critical analysis of the routine use of the direct antiglobulin test in 22,517 cross-matching tests] López J, et al. **Sangre (Barc)** 1990 Feb;35(1):15–7 (Eng. Abstr.) **(Spa)**

VETERINARY

Investigation into factors influencing performance of the canine antiglobulin test. Jones DR, et al. **Res Vet Sci** 1990 Jan;48(1):53–8

COOPERATIVE BEHAVIOR

How doctor's advice is followed by mothers of atopic children. Yamamoto K. **Acta Derm Venereol Suppl (Stockh)** 1989;144:31–3
Pre-school children with uncooperative behavior in the dental situation. Some characteristics and background factors. Mejàre I, et al. **Acta Odontol Scand** 1989 Dec; 47(6):337–45
Adolescents' compliance–resistance: effects of parents' compliance strategy and gender. White KD, et al. **Adolescence** 1989 Fall;24(95):595–621
The Health Belief Model in understanding compliance with preventive recommendations for AIDS: how useful? Montgomery SB, et al. **AIDS Educ Prev** 1989 Winter; 1(4):303–23 (40 ref.)
Noncompliance with Universal Precautions Policy: why do physicians and nurses recap needles? Becker MH, et al. **Am J Infect Control** 1990 Aug;18(4):232–9
A hierarchical model of the evolution of cooperation in cultural systems. Savatsky K, et al. **Biosystems** 1989; 23(2–3):261–77; discussion 278–9
Achieving parent-child coordination through convention: fixed- and variable-sequence conventions. Duncan S Jr, et al. **Child Dev** 1990 Jun;61(3):742–53
Maternal responsiveness and child compliance: the role of mood as a mediator. Lay KL, et al. **Child Dev** 1989 Dec; 60(6):1405–11
Patterns of compliance from eighteen to thirty months of age. Schneider-Rosen K, et al. **Child Dev** 1990 Feb; 61(1):104–12
Goal structure effects on social interaction: nondisabled and disabled elementary students. Eichinger J. **Except Child** 1990 Feb;56(5):408–16
Cooperative learning: does it improve the academic achievement of students with handicaps? Tateyama-Sniezek KM. **Except Child** 1990 Feb; 56(5):426–37
Compliance training in a child with attention deficit–hyperactivity disorder: a case study. Johnson CM, et al. **Fam Pract Res J** 1989 Fall–Winter;9(1):73–80
Quality of perceived parenting in oppositional and conduct disordered adolescents. Rey JM, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May;29(3):382–5
Compliance and problem-solving competence in girls and boys. Crombie G, et al. **J Genet Psychol** 1989 Sep; 150(3):281–91
Evaluation of staff compliance with 'influencing' tactics in relation to infection control policy implementation. Seto WH, et al. **J Hosp Infect** 1990 Feb;15(2):157–66
N-person games and the evolution of co-operation: a model based on predator inspection in fish. Dugatkin LA. **J Theor Biol** 1990 Jan 9;142(1):123–35
A story for Larry. Duckworth E, et al. **New Dir Child Dev** 1990 Spring;(47):71–6
Improving response rate to mailed questionnaires. Gordon SE, et al. **Nurs Res** 1989 Nov–Dec;38(6):375–6
Managing the world outside the practice. Pritchard P. **Practitioner** 1989 Jun 22;233(1471):905–7
Competition/cooperation in worksite smoking cessation using nicotine gum. Maheu MM, et al. **Prev Med** 1989 Nov; 18(6):867–76
[Regional differences in vitamin K administration to a newborn infant] Reerink JD. **Ned Tijdschr Geneeskd** 1990 Feb 24;134(8):397–8 **(Dut)**
[Psychodiagnosis of social-cooperative behavior in childhood. An experimental approach] Zimmermann W. **Psychiatr Neurol Med Psychol Beih** 1990;42:1–122 **(Ger)**

COPD see **LUNG DISEASES, OBSTRUCTIVE**

COPING BEHAVIOR see **ADAPTATION, PSYCHOLOGICAL**

COPPER

see related
CERULOPLASMIN

Structure of copper(II) perchlorate hexahydrate. Gallucci JC, et al. **Acta Crystallogr C** 1989 Sep 15;45 (Pt 9):1279–84
Complexometric titrations of protein-bound metal ions: a method for determining binding constants. Roe JA, et al. **Anal Biochem** 1990 Apr;186(1):31–40
Copper iodide staining and determination of proteins adsorbed to microtiter plates. Root DD, et al. **Anal Biochem** 1990 Apr;186(1):69–73
Evaluation of the interaction of peptides with Cu(II), Ni(II), and Zn(II) by high-performance immobilized metal ion affinity chromatography. Yip TT, et al. **Anal Biochem** 1989 Nov 15;183(1):159–71
Free radical production and DNA cleavage by copper chelating peptide-anthraquinones. Morier-Teissier E, et al. **Anticancer Drug Des** 1990 Aug;5(3):291–305
Copper (II) induced radiosensitization of thymine. Bhattacharyya SN, et al. **Anticancer Res** 1989 Jul–Aug; 9(4):1181–4
Health status of copper refinery workers with specific reference to selenium exposure. Holness DL, et al. **Arch Environ Health** 1989 Sep–Oct;44(5):291–7 (49 ref.)
Spectroscopic studies of the type 2 and type 3 copper centres in the mercury derivative of laccase. Tamilarasan R, et al. **Biochem J** 1989 Oct 15;263(2):425–9
Enzymatic studies of the effect of Cu (II) on oxygen radical production stimulated by daunorubicin and ametantrone. Tarasiuk J, et al. **Biochem Pharmacol** 1990 May 1; 39(9):1405–10
Sequence specificity of the deoxyribonuclease activity of 1,10-phenanthroline-copper ion. Yoon C, et al. **Biochemistry** 1990 Feb 27;29(8):2116–21
2-Imidazolethiones protect ascorbic acid from oxidation induced by copper. Smith RC, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):263–7
Highly site-specific oxygenation of 1-methylhistidine and its analogue with a copper (II)/ascorbate-dependent redox system. Uchida K, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):347–50
A five-coordinate copper complex with superoxide dismutase mimetic activity from Streptomyces antibioticus. Schechinger T, et al. **Biol Met** 1988;1(2):112–6
Heavy metal contamination in the river toad, Bufo juxtasper (Inger), near a copper mine in East Malaysia. Lee YH, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):272–9
Disinfection of bacteria in water systems by using electrolytically generated copper:silver and reduced levels of free chlorine. Yahya MT, et al. **Can J Microbiol** 1990 Feb;36(2):109–16
Schiff base copper(II) chelate as a tool for immobilization of protein. Moriya K, et al. **Chem Pharm Bull (Tokyo)** 1989 Oct;37(10):2849–51
Metal-ion-governed molecular recognition: extent of intramolecular stack formation in mixed-ligand—copper(II) complexes containing a heteroaromatic N base and an adenosine monophosphate (2'AMP, 3'AMP, or 5'AMP). A structuring effect of the metal-ion bridge. Massoud SS, et al. **Eur J Biochem** 1990 Jan 26;187(2):387–93
Effects of some divalent metal ions on the aging phenomenon of hematoporphyrin and photofrin II. Kalia A, et al. **Indian J Biochem Biophys** 1989 Aug;26(4):213–8
Complexes of vitamin B6XX: equilibrium and mechanistic studies of the reaction of pyridoxal-5'-phosphate with pyridoxamine-5'-phosphate in the presence of copper(II). Marafie HM, et al. **J Inorg Biochem** 1989 Sep;37(1):7–16
Diabetes mellitus on the Zambian Copperbelt. Rolfe M, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):255–9
A porphyrin-DNA exciplex: resonance Raman spectra of electronically excited Cu(TMpy-P4) bound to poly(dA-dT).poly(dA-dT). Turpin PY, et al. **Photochem Photobiol** 1990 May;51(5):519–25
Sequence-specific recognition and cleavage of duplex DNA via triple-helix formation by oligonucleotides covalently linked to a phenanthroline-copper chelate. François JC, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9702–6
Production of free radicals arising from the surface activity of minerals and oxygen. Part II. Arsenides, sulfides, and sulfoarsenides of iron, nickel, and copper. Costa D, et al. **Toxicol Ind Health** 1989 Dec;5(6):1079–97
[Chalcosis and light injury (apropos of a fortuitous case)] Krzykala B, et al. **Bull Soc Ophtalmol Fr** 1990 Feb; 90(2):209–12 (Eng. Abstr.) **(Fre)**
[Enzyme activities of the retina and vitreous body following experimental implantation of a brass splinter] Reim M, et al. **Klin Monatsbl Augenheilkd** 1989 Dec;195(6):363–7 (Eng. Abstr.) **(Ger)**
[Induction of a microbial colonization of the walls of copper pipes through which drinking water flows] Tuschewitzki GJ. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):62–71 (Eng. Abstr.) **(Ger)**
[Active sites of superoxide dismutases and superoxide dismutase mimics] Nagano T, et al. **Seikagaku** 1990 Jun; 62(6):447–51 **(Jpn)**

ADMINISTRATION & DOSAGE

Copper supplementation: failure to increase plasma copper and ceruloplasmin concentrations in healthy infants. Salmenperä L, et al. **Am J Clin Nutr** 1989 Oct;50(4):843–7
Copper status and urinary and salivary copper in young men at three levels of dietary copper. Turnlund JR, et al. **Am J Clin Nutr** 1990 Apr;51(4):658–64
Interaction of aluminum with zinc and copper and its effects on pituitary-testicular axis: a histological study. Liu JY, et al. **Biomed Environ Sci** 1990 Mar;3(1):1–10
Interaction between aluminum and zinc or copper and its effects on the pituitary-testicular axis. II. Testicular enzyme and serum gonadotropin assay. Liu JY, et al. **Biomed Environ Sci** 1990 Mar;3(1):11–9
Effects of source and level of copper on performance and liver copper stores in weanling pigs. Cromwell GL, et al. **J Anim Sci** 1989 Nov;67(11):2996–3002
Effects of dietary protein level and clinoptilolite on the weight gain and liver mineral response of growing lambs to copper supplementation. Pond WG. **J Anim Sci** 1989 Oct;67(10):2772–81
Physiological relationships between microbiological status and dietary copper levels in the pig. Shurson GC, et al. **J Anim Sci** 1990 Apr;68(4):1061–71
Effect of chelated copper sources on performance of nursery and growing pigs. Stansbury WF, et al. **J Anim Sci** 1990 May;68(5):1318–22

The metabolism of 75Se-selenomethionine in sheep given supplementary copper and molybdenum. White CL, et al. **J Anim Sci** 1989 Sep;67(9):2400–8

Influence of excess dietary copper on lipid composition of calf tissues. Jenkins KJ, et al. **J Dairy Sci** 1989 Oct; 72(10):2582–91

Effect of copper loading of preruminant calves on intracellular distribution of hepatic copper, zinc, iron, and molybdenum. Jenkins KJ. **J Dairy Sci** 1989 Sep; 72(9):2346–50

[Effect of copper and selenium on the histopathologic picture of the internal organs and the accumulation of these metals in hens] Madej JA, et al. **Pol Arch Weter** 1988;28(1–2):45–61 (Eng. Abstr.) **(Pol)**

[The trace element composition of the organs and tissues of animals administered a highly dispersed powder and copper sulfate] Bogoslovskaia OA, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):850–4 (Eng. Abstr.) **(Rus)**

[The restoration of reproductive health after the artificial interruption of a first pregnancy (experience with the use of copper electrophoresis)] Strugatskiĭ VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec; (6):65–6 **(Rus)**

ADVERSE EFFECTS

Occupation-related cancer in a Nordic copper smeltery. Gerhardsson L, et al. **Arctic Med Res** 1988;47 Suppl 1:628–31

Green hair due to copper in spectacle metal [letter] Verbov J. **Clin Exp Dermatol** 1990 May;15(3):234

Development of human embryos in the presence of a copper intrauterine device. Barash A, et al. **Gynecol Obstet Invest** 1990;29(3):203–6

Nail pigmentation resulting from selenium sulfide and copper [letter] Wolf R, et al. **Int J Dermatol** 1989 Oct;28(8):556–7

Copper-induced dystonia secondary to cholestatic liver disease [letter] Danks DM. **Lancet** 1990 Feb 17; 335(8686):410

[Risk of high copper content in drinking water] Madsen H, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1806–9 (17 ref.) (Eng. Abstr.) **(Dan)**

[Copper sulfate allergy with special reference to internal exposure] Zabel M, et al. **Z Hautkr** 1990 May;65(5):481–2, 485–6 (Eng. Abstr.) **(Ger)**

[Comparative studies in chronic ocular chalcosis] Zagórski Z, et al. **Klin Oczna** 1989 Apr;91(4):73–5 (Eng. Abstr.) **(Pol)**

[Morbidity and trauma among workers before and after the reconstruction of the copper-smelting plant in the Armenian SSR] Vartazarian LD. **Gig Tr Prof Zabol** 1989; (7):39–41 **(Rus)**

[Can copper cause fatal liver cirrhosis in infants in Sweden?] Oskarsson A, et al. **Lakartidningen** 1990 Apr 11; 87(15):1243–6 **(Swe)**

ANALYSIS

Food sources of dietary copper. Kies C. **Adv Exp Med Biol** 1989;258:1–20 (8 ref.)

Reducing exposures to airborne lead in a covered, outdoor firing range by using totally copper-jacketed bullets. Tripathi RK, et al. **Am Ind Hyg Assoc J** 1990 Jan; 51(1):28–31

Zinc, magnesium, copper, and protein concentrations in human saliva: age- and sex-related differences. Bales CW, et al. **Am J Clin Nutr** 1990 Mar;51(3):462–9

Zinc and copper concentrations in hair of Iranian villagers. Reinhold JG, et al. **Am J Clin Nutr** 1966 Apr;18(4):294–300

Determination of trace amounts of cadmium, lead, copper and zinc in natural waters by inductively coupled plasma atomic emission spectrometry with thermospray nebulisation, after enrichment on Chelex-100. Vermeiren K, et al. **Analyst** 1990 Jan;115(1):17–22

Metal affinity precipitation of proteins. Van Dam ME, et al. **Biotechnol Appl Biochem** 1989 Oct;11(5):492–502

The concentration of copper in the liver of African children with marasmus. Godette L, et al. **Br J Nutr** 1967; 21(2):419–23

Breast milk zinc and copper concentrations in Bangladesh. Simmer K, et al. **Br J Nutr** 1990 Jan;63(1):91–6

Hair copper and zinc concentrations in the Rett syndrome. Kasama T, et al. **Brain Dev** 1989;11(6):433–5

Seasonal changes of cadmium and copper levels in stem-boring larvae of Agapanthia villosoviridescens (Coleoptera) on salt marshes of the Westerschelde Estuary. Hemminga MA, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):747–54

Effects of ethanol and propylthiouracil on hepatic iron and copper contents in the male albino mouse. González-Reimers E, et al. **Drug Alcohol Depend** 1989 Dec; 24(3):261–3

Iron, copper, cadmium, zinc and magnesium contents of urinary tract stones and hair from men with stone disease. Durak I, et al. **Eur Urol** 1990;17(3):243–7

Modelling heme d1. The spectral properties of copper(II) porphyrindiones. Andersson LA, et al. **FEBS Lett** 1990 Jul 16;267(2):285–8

A novel combination of prosthetic groups in a fungal laccase; PQQ and two copper atoms. Karhunen E, et al. **FEBS Lett** 1990 Jul 2;267(1):6–8

A luminescence probe for metallothionein in liver tissue: emission intensity measured directly from copper metallothionein induced in rat liver. Stillman MJ, et al. **FEBS Lett** 1989 Nov 6;257(2):283–6

Zinc, copper and manganese in serum, urine and stones. Komleh K, et al. **Int Urol Nephrol** 1990;22(2):113–8

Characterization of copper atoms in bilirubin oxidase by spectroscopic analyses. Gotoh Y, et al. **J Biochem (Tokyo)** 1989 Oct;106(4):621–6

Chemical and morphological studies of liver from eider (Somateria mollissima) in Svalbard with special reference to the distribution of copper. Norheim G, et al. **J Comp Pathol** 1990 May;102(4):457–66

New method for removing type 2 copper from Rhus laccase. Klemens AS, et al. **J Inorg Biochem** 1990 Feb;38(2):107–15

Metal complexes of antiinflammatory drugs. Part VII: Salsalate complex of copper(II). Underhill AE, et al. **J Inorg Biochem** 1989 Sep;37(1):1–5

Menkes disease—an autopsy case with metal analysis of hair. Moon HR, et al. **J Korean Med Sci** 1987 Mar;2(1):75–83

Effect of dietary homocysteine on copper status in rats. Brown JC, et al. **J Nutr** 1990 Sep;120(9):1068–74

Studies in oral galvanism: mercury and copper levels in urine, blood and saliva in submerged electrically cutting divers. Ortendahl TW, et al. **J Oral Rehabil** 1989 Nov;16(6):559–73 (40 ref.)

Histochemical and immunocytochemical evaluation of copper and metallothionein in the liver and kidney of copper-loaded rats. Evering WE, et al. **J Pathol** 1990 Apr; 160(4):305–12

Uptake of copper from brass vessels by bovine milk and its relevance to Indian childhood cirrhosis. O'Neill NC, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):167–72 (38 ref.)

Age related changes in weight and the concentrations of zinc and copper in the brain of the adult rat. Palm R, et al. **Lab Anim** 1990 Jul;24(3):240–5

A surgical technique for the long term collection of bile in the pig and measurement of the biliary excretion of copper and zinc. Symonds HW, et al. **Res Vet Sci** 1990 Jan; 48(1):28–32

Iron, copper, zinc and lead in hair from Sudanese populations of different age groups. Eltayeb MA, et al. **Sci Total Environ** 1990 Jun;95:157–65

Use of Polytrichum formosum (moss) as a passive biomonitor for heavy metal pollution (cadmium, copper, lead and zinc). Markert B, et al. **Sci Total Environ** 1989 Oct 15; 86(3):289–94

Influence of complexing agents and surfactants on metal speciation analysis in road runoff. Morrison GM, et al. **Sci Total Environ** 1990 Apr;93:481–8

The transport of heavy metals within a small urban catchment. Revitt DM, et al. **Sci Total Environ** 1990 Apr; 93:359–73

Hepatic copper concentrations in purebred and mixed-breed dogs. Thornburg LP, et al. **Vet Pathol** 1990 Mar; 27(2):81–88

[Trace elements in the serum and blister fluid of burn patients] Yang HY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):187–90 **(Chi)**

[The relationship between Mo, Cu in drinking water and endemic fluorosis] Yao C. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):38–41 (Eng. Abstr.) **(Chi)**

[The determination of Cu and Zn levels in the serum and gastric juice of patients with gastric cancer] Wang CS. **Chung Hua Wai Ko Tsa Chih** 1989 Jul;27(7):401–3, 444 (Eng. Abstr.) **(Chi)**

[Extraction-spectrophotometric determination of copper in tablets and injections of Chinese medicine] Yen JC, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Feb;14(2):23–4, 62 (Eng. Abstr.) **(Chi)**

[Studies on trace elements in cancerous stomach tissue of the patients with stomach cancer] Kobayashi M. **Hokkaido Igaku Zasshi** 1990 May;65(3):320–35 (Eng. Abstr.) **(Jpn)**

[Histochemistry of copper and copper-binding protein in liver with a comparison between histologic sections and biochemical evaluation] Sato H, et al. **Sangyo Ika Daigaku Zasshi** 1989 Sep 1;11(3):327–32 (Eng. Abstr.) **(Jpn)**

[Polarographic analysis of soluble and insoluble nickel and copper compounds in atmospheric air] Parfeniuk TG, et al. **Gig Sanit** 1989 Jun;(6):44–5 **(Rus)**

BLOOD

Serum copper concentration as an index of clinical lung injury. Molteni A, et al. **Adv Exp Med Biol** 1989;258:273–85

Changes in serum copper and zinc during treatment with anticancer drugs interfering with pyridoxal phosphate. Slavik M, et al. **Adv Exp Med Biol** 1989;258:235–42

Serum copper concentration as an index of experimental lung injury. Ward WF, et al. **Adv Exp Med Biol** 1989; 258:287–302

Serum copper levels in users of multiload intra-uterine contraceptive devices. Arowojolu AO, et al. **Afr J Med Med Sci** 1989 Dec;18(4):295–9

Serum copper levels in elderly patients with femoral-neck fractures. Conlan D, et al. **Age Ageing** 1990 May; 19(3):212–4

Plasma and total blood cell copper in rheumatoid arthritis. Marrella M, et al. **Agents Actions** 1990 Jan;29(1–2):120–1

Physical training and copper, iron, and zinc status of swimmers. Lukaski HC, et al. **Am J Clin Nutr** 1990 Jun; 51(6):1093–9

Serum and red blood cell magnesium, copper, and zinc content in G6PD deficiency. Karunanithy R, et al. **Am J Hematol** 1990 Oct;35(2):136–8

Zinc, copper, and sexual maturation in 9–18-year-old girls and boys. Laitinen R. **Biol Trace Elem Res** 1990 Apr; 25(1):71–8

Changes in iron, zinc, and copper concentrations in serum and in their binding to transport proteins after cholecystectomy and cardiac surgery. Fraser WD, et al. **Clin Chem** 1989 Nov;35(11):2243–7

Ultrafiltrable copper and related analytes in maternal and cord blood. Noubah AM, et al. **Clin Chem** 1990 Jun; 36(6):860–4

A sensitive, direct colorimetric assay of serum copper using 5-Br-PSAA. Makino T. **Clin Chim Acta** 1989 Oct 31; 185(1):7–16

Uptake of copper from the bloodstream and its relation to induction of metallothionein synthesis in the rat. Suzuki KT, et al. **Comp Biochem Physiol [C]** 1989;94(1):93–7

Non-caeruloplasmin copper and ferroxidase activity in mammalian serum. Ferroxidase activity and phenanthroline-detectable copper in human serum in Wilson's disease. Evans PJ, et al. **Free Radic Res Commun** 1989;7(1):55–62

Prediction of the presence of ovarian cancer at surgery by an immunochemical panel: CA 125 and copper-to-zinc ratio. Gal D, et al. **Gynecol Oncol** 1989 Nov;35(2):246–50

Free amino acids, copper, iron and zinc composition in sera of patients with thyrometabolic diseases. Hassan MA, et al. **Horm Metab Res** 1990 Feb;22(2):117–20

Serum copper and ceruloplasmin in pregnancy with anaemia. Kalra R, et al. **Indian J Pathol Microbiol** 1989 Jan; 32(1):28–32

A study of serum copper, serum zinc and Cu/Zn ratio as diagnostic and prognostic index in cases of head, neck and face tumors. Toke GB, et al. **Indian J Pathol Microbiol** 1990 Apr;33(2):171–4

Serum copper in ICC and other hepatic disorders. Srivastava VK, et al. **Indian Pediatr** 1989 Apr;26(4):381–2

Plasma zinc and copper in pregnant Nigerian women at term and their newborn babies. Okonofua FE, et al. **Int J Gynaecol Obstet** 1990 Jul;32(3):243–5

Comparison of some serum copper parameters in trained runners and control subjects. Resina A, et al. **Int J Sports Med** 1990 Feb;11(1):58–60

Serum zinc and copper: associations with cholesterol and triglyceride levels in children and adolescents. Cardiovascular risk in young Finns. Laitinen R, et al. **J Am Coll Nutr** 1989 Oct;8(5):400–6

Concentrations of magnesium, zinc and copper in serum of patients with acquired immuno-deficiency syndrome. Heise W, et al. **J Clin Chem Clin Biochem** 1989 Aug;27(8):515–7

Zinc and copper status in women by physical activity and menstrual status. Singh A, et al. **J Sports Med Phys Fitness** 1990 Mar;30(1):29–36

Disease: abnormalities of copper, zinc and magnesium in blood. Manser WW. **JPMA** 1989 Dec;39(12):325–33 (116 ref.)

Trace element studies on Karachi population, Part II: Normal ranges for blood copper, zinc and magnesium for children and adolescents. Manser WW, et al. **JPMA** 1989 Aug; 39(8):205–8

Serum copper and zinc levels in patients with nasopharyngeal carcinoma. Lian SL, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar;88(3):236–9

Serum copper and ceruloplasmin in early and in advanced hepatocellular carcinoma: diagnostic and prognostic relevance. Casaril M, et al. **Tumori** 1989 Oct 31; 75(5):498–502

Zinc, magnesium and copper in serum of women given a calcium supplement. Jendryczko A, et al. **Zentralbl Gynakol** 1989;111(21):1441–4

[Changes in trace elements, Zn and Cu, following burns] Bao PH. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):279–81 **(Chi)**

[Changes in body zinc and copper levels in severely burned patients and the effects of oral administration of ZnSO4 by a double-blind method] Han CM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):83–6, 155 (Eng. Abstr.) **(Chi)**

[Clinical value of serum copper, zinc and copper/zinc ratio in the differentiation of sarcoidosis from pulmonary tuberculosis and pulmonary carcinoma] Hua B. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Aug; 12(4):212–3, 253–4 (Eng. Abstr.) **(Chi)**

[Serum copper levels and pathologic changes in the fetal membranes in cases of premature rupture of the membranes] Fu YH. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Sep;24(5):276–8, 317 (Eng. Abstr.) **(Chi)**

[Ca, Mg, Cu and Zn contents of the maternal and umbilical cord serum in pregnancy-induced hypertension] Zhao F. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Jul;24(4):212–4, 252 (Eng. Abstr.) **(Chi)**

[Clinical findings and trace metals (zinc & copper) in Leber's congenital amaurosis] Zeng LH. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):26–8 (Eng. Abstr.) **(Chi)**

[Serum lysozyme and copper levels in rats after the

administration of dust] Havránková J, et al. **Bratisl Lek Listy** 1990 Feb;91(2):111–4 (Eng. Abstr.) **(Cze)**

[Plasma and intra–erythrocytic concentrations of copper and zinc in uremic patients treated by periodic hemodialysis] Agenet C, et al. **Ann Biol Clin (Paris)** 1989;47(8):493–6 (31 ref.) (Eng. Abstr.) **(Fre)**

[Interlaboratory serum copper–zinc comparisons. Analytical performance during the first year] Baruthio F, et al. **Ann Biol Clin (Paris)** 1990;48(4):239–46 (Eng. Abstr.) **(Fre)**

[Behavior of blood copper, ceruloplasmin and procollagen III in acute myocardial infarction] Aresu G, et al. **Minerva Cardioangiol** 1990 Apr;38(4):141–50 (Eng. Abstr.) **(Ita)**

[Significance of copper analysis in clinical tests] Nishi Y, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:771–4 **(Jpn)**

[Zinc and copper levels in the blood serum of infants with chronic nutrition disorders] Kandzierska D. **Pediatr Pol** 1989 Apr;64(4):241–7 (Eng. Abstr.) **(Pol)**

[Effects of antioxidants on content of bioelements in the blood of newborn infants after chronic intrauterine hypoxia] Deshchekina MF, et al. **Pediatriia** 1990;(6):69–72 **(Rus)**

[The role of disorders of copper and zinc homeostasis in the pathogenesis of bronchial asthma] Fedoseev GB, et al. **Ter Arkh** 1989;61(8):46–50 **(Rus)**

[Hypercupremia associated with ectomesodermal dysplasia] Zubiaurre B, et al. **An Esp Pediatr** 1990 Mar;32(3):268–70 **(Spa)**

DEFICIENCY

Familial benign copper deficiency: an old case re–examined. Méhes K, et al. **Acta Paediatr Hung** 1988–89;29(3–4):313–5

Ischemic heart disease as copper deficiency. Klevay LM. **Adv Exp Med Biol** 1989;258:197–208 (101 ref.)

Exocrine pancreatic function of rats consuming a high–fructose, low–copper diet. Lewis CG, et al. **Adv Exp Med Biol** 1989;258:219–27

Effects of copper deficiency on the immune system. Prohaska JR, et al. **Adv Exp Med Biol** 1990;262:123–43 (113 ref.)

Effect of copper on immune function and disease resistance. Stabel JR, et al. **Adv Exp Med Biol** 1989;258:243–52 (28 ref.)

Beer mitigates some effects of copper deficiency in rats. Klevay LM, et al. **Am J Clin Nutr** 1990 May;51(5):869–72

Consequences of severe copper deficiency are independent of dietary carbohydrate in young pigs. Schoenemann HM, et al. **Am J Clin Nutr** 1990 Jul;52(1):147–54

Microvascular responses in copper–deficient rats. Schuschke DA, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1607–12

Anemia and neutropenia caused by copper deficiency. Dunlap WM, et al. **Ann Intern Med** 1974 Apr;80(4):470–6

The immune response in copper deficiency. Lukasewycz OA, et al. **Ann N Y Acad Sci** 1990;587:147–59

Activity of bleomycin in iron– and copper–deficient cells. Lyman S, et al. **Biochem Pharmacol** 1989 Dec 1; 38(23):4273–82

Dietary carbohydrate influences tissue fatty acid and lipid composition in the copper–deficient rat. Cunnane SC, et al. **Biol Trace Elem Res** 1989–90 Winter;23:77–87

Anemia associated with changes in iron and iron–59 utilization in copper deficient rats fed high levels of dietary ascorbic acid and iron. Johnson MA, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:69–80

Effect of nutritional copper deficiency on carrageenin edema in the rat. A quantitative study. Kishore V, et al. **Biol Trace Elem Res** 1989–90 Winter;23:97–107

Dietary saturated or polyunsaturated fat and copper deficiency in the rat. Lynch SM, et al. **Biol Trace Elem Res** 1989 Nov;22(2):131–9

Biochemical and immunological changes in mice following postweaning copper deficiency. Prohaska JR, et al. **Biol Trace Elem Res** 1989 Oct;22(1):101–12

Consequences of copper deficiency are not differentially influenced by carbohydrate source in young pigs fed a dried skim milk–based diet. Schoenemann HM, et al. **Biol Trace Elem Res** 1990 Apr;25(1):21–33

Ascorbic acid supplementation and copper status in rats. Van den Berg GJ, et al. **Biol Trace Elem Res** 1989–90 Winter; 23:165–72

Effect of dietary cadmium and/or copper on the bone lysyl oxidase in copper–deficient rats relative to the metabolism of copper in the bone. Iguchi H, et al. **Bone Miner** 1990 Jul;10(1):51–9

The effect of various levels of fructose in a copper–deficient diet on Cu deficiency in male rats. Lewis CG, et al. **Br J Nutr** 1990 Mar;63(2):387–95

Effects of dietary copper deficiency on male offspring of heterozygous brindled mice. Prohaska JR. **Br J Nutr** 1989 Jul;62(1):177–84

Trace elements in embryonic development. O'Dell BL. **Fed Proc** 1968 Jan–Feb;27(1):199–204 (33 ref.)

Effect of zinc or copper deficiency on erythrocyte purine nucleoside phosphorylase and pyruvate kinase activity in the rat. Mameesh MS, et al. **Int J Vitam Nutr Res** 1989; 59(4):390–5

Copper deficiency in an infant with giardiasis fed with cow's milk. Phillip M, et al. **Isr J Med Sci** 1990 May;26(5):289–90

Copper deficiency in the mitochondria of cultured skin fibroblasts from patients with Menkes syndrome. Kodama H, et al. **J Inherited Metab Dis** 1989;12(4):386–9

Copper–deficient mice have higher cardiac norepinephrine turnover. Gross AM, et al. **J Nutr** 1990 Jan;120(1):88–96

Altered cytoskeletal organization and secretory response of thrombin–activated platelets from copper–deficient rats. Johnson WT, et al. **J Nutr** 1989 Oct;119(10):1404–10

Myofibrillar and nonmyofibrillar myocardial proteins of copper–deficient rats. McCormick RJ, et al. **J Nutr** 1989 Nov;119(11):1683–90

High–density lipoprotein cholesteryl ester and protein catabolism in hypercholesterolemic rats induced by copper deficiency. Carr TP, et al. **Metabolism** 1990 May; 39(5):518–24

Alcohol consumption aggravates copper deficiency. Fields M, et al. **Metabolism** 1990 Jun;39(6):610–3

Copper deficiency in pregnancy: effect on maternal and fetal polyol metabolites. Fields M, et al. **Metabolism** 1990 May; 39(5):531–7

Zinc and copper wastage during acute diarrhea. **Nutr Rev** 1990 Jan;48(1):19–22 (8 ref.)

Exocrine pancreas in rabbits fed a copper–deficient diet: structural and functional studies. Alvarez C, et al. **Pancreas** 1989;4(5):543–9

Effects of copper and vitamin B-6 deficiency on taste sensitivity in the rat: a signal detection analysis. Brosvic GM, et al. **Physiol Behav** 1989 Jun;45(6):1139–46

The effects of copper deficiency on the pyridinium crosslinks of mature collagen in the rat skeleton and cardiovascular system. Farquharson C, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):166–71

Comparison of copper status in rats when dietary fructose is replaced by either cornstarch or glucose. Koh ET. **Proc Soc Exp Biol Med** 1990 Jun;194(2):108–13

Effects of dietary tin and copper on rat hepatocellular antioxidant protection. Reicks M, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):123–8

Ethane production in copper–deficient rats. Saari JT, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):30–3

Infertility and disease surveillance using a milk recording scheme in the Sahiwal district of Pakistan [published erratum appears in Trop Anim Health Prod 1990 Feb;22(1):60] Pedersen CH. **Trop Anim Health Prod** 1989 Nov;21(4):263–72

The effect of D–penicillamine in the developing rat cerebellum. Yurdakök M, et al. **Turk J Pediatr** 1989 Apr–Jun;31(2):137–43

[Cu deficiency as a cause of spontaneous fracture in a premature infant] Pontz BF, et al. **Monatsschr Kinderheilkd** 1989 Jul;137(7):419–21 (Eng. Abstr.) **(Ger)**

[The effect of copper on the metabolism of iodine, carbohydrates and proteins in rats] Esipenko BE, et al. **Fiziol Zh** 1990 Mar–Apr;36(2):35–43 (Eng. Abstr.) **(Rus)**

[Iodine, carbohydrate and protein metabolism in rats with iodine, copper and cobalt deficiency] Marsakova NV, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):51–9 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

High–performance liquid chromatographic determination of zinc pyrithione in antidandruff preparations based on copper chelate formation. Nakajima K, et al. **J Chromatogr** 1990 Mar 2;502(2):379–84

[Diagnostic possibilities of a crystallographic method in pyelonephritis in children] Chebotareva VD, et al. **Pediatriia** 1990;(5):46–51 (Eng. Abstr.) **(Rus)**

METABOLISM

Chronological observations of histological changes, cytochrome oxidase activity and copper level in the brain of the postnatal brindled mouse. Yoshimura N, et al. **Acta Pathol Jpn** 1990 Jun;40(6):383–90

Copper bioavailability and metabolism. Proceedings of the American Chemical Society Symposium on Copper Bioavailability and Metabolism. April 9–14, 1989, Dallas, Texas. **Adv Exp Med Biol** 1989;258:1–302

Modulation of long chain fatty acid unsaturation by dietary copper. Cunnane SC. **Adv Exp Med Biol** 1989;258:183–95 (34 ref.)

Effects of inflammation on copper antioxidant enzyme levels. DiSilvestro RA. **Adv Exp Med Biol** 1989;258:253–8

The type of dietary carbohydrate consumed during pregnancy and lactation determines copper status of the fetus and the neonate rat. Fields M, et al. **Adv Exp Med Biol** 1989;258:59–70

Copper and zinc status in moderate alcohol intake. Frimpong NA, et al. **Adv Exp Med Biol** 1989;258:145–54

Copper transport: insights into a ceruloplasmin–based delivery system. Harris ED, et al. **Adv Exp Med Biol** 1989; 258:95–102

Influence of ascorbic acid, zinc, iron, sucrose and fructose on copper status. Johnson MA. **Adv Exp Med Biol** 1989; 258:29–43 (101 ref.)

Inhibitors of copper bioutilization: fiber, lead, phytate and tannins. Kies C, et al. **Adv Exp Med Biol** 1989;258:81–93 (42 ref.)

Effects of exercise training on human copper and zinc nutriture. Lukaski HC. **Adv Exp Med Biol** 1989;258:163–70

Effect of estrogen on serum and tissue levels of copper and zinc. Mehta SW, et al. **Adv Exp Med Biol** 1989;258:155–62

Serum total cholesterol and HDL–cholesterol levels as associated with copper and zinc intake in physically active and sedentary elderly men and women. Umoren J. **Adv Exp Med Biol** 1989;258:171–81

The iron(III) and copper(II) complexes of adriamycin promote the hydrolysis of the cardioprotective agent ICRF–187 ((+)–1,2–bis(3,5–dioxopiperazinyl–1–yl)propane). Hasinoff BB. **Agents Actions** 1990 Mar;29(3–4):374–81

Determination of zinc and copper absorption at three dietary Zn–Cu ratios by using stable isotope methods in young adult and elderly subjects. August D, et al. **Am J Clin Nutr** 1989 Dec;50(6):1457–63

Oral copper supplementation: effect on copper and zinc balance during acute gastroenteritis in infants. Castillo–Durán C, et al. **Am J Clin Nutr** 1990 Jun; 51(6):1088–92

Zinc therapy in Wilson's disease: observations in five patients. Rossaro L, et al. **Am J Gastroenterol** 1990 Jun;85(6):665–8

Role of albumin's copper binding site in copper uptake by mouse hepatocytes. McArdle HJ, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):G988–91

Copper transport from ceruloplasmin: characterization of the cellular uptake mechanism. Percival SS, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):C140–6

Effects of albumin and histidine on kinetics of copper transport by fibroblasts. Waldrop GL, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G212–8

Effect of albumin on net copper accumulation by fibroblasts and hepatocytes. Waldrop GL, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G219–25

Influence of variable content of dietary zinc on copper metabolism of weanling foals. Bridges CH, et al. **Am J Vet Res** 1990 Feb;51(2):275–80

Calcium– and cysteine–participatory oxidative formation of albumin–copper complex. Suzuki KT, et al. **Arch Biochem Biophys** 1990 Apr;278(1):120–4

Mobilization of copper among tissues in the estuarine crab Scylla serrata (Forskal) under imposed starvation. Arumugam M. **Arch Int Physiol Biochim** 1989 Jun; 97(3):247–57

A laboratory study of the copper and nickel uptake and regulation in a copper–tolerant decapod, Cambarus bartoni (Fabricius) (Decapoda, Crustacea). Zia S, et al. **Arch Int Physiol Biochim** 1989 Jun;97(3):211–9

Intestinal lymphangiectasia with protein losing enteropathy, toxic copper accumulation and hypoparathyroidism. O'Donnell D, et al. **Aust N Z J Med** 1990 Apr;20(2):167–9

The pH dependence of the reconstitution reaction of apotyrosinase: the question of Cu(I) versus Cu(II). Wigfield DC, et al. **Biochem Cell Biol** 1990 Mar;68(3):648–50

Cytosolic copper–binding proteins in rat and mouse hepatocytes incubated continuously with Cu(II). Palida FA, et al. **Biochem J** 1990 Jun 1;268(2):359–66

The relationship of excess copper accumulation by fibroblasts from the brindled mouse model of Menkes disease to the primary defect. Waldrop GL, et al. **Biochem J** 1990 Apr 15;267(2):417–22

Two pathways for biliary copper excretion in the rat. The role of glutathione. Houwen R, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1039–44

Effect of the glutathione–depleting agents diethylmaleate, phorone and buthionine sulfoximine on biliary copper excretion in rats. Nederbragt H. **Biochem Pharmacol** 1989 Oct 15;38(20):3399–406

Resonance Raman studies of CuA–modified cytochrome c oxidase. Larsen RW, et al. **Biochemistry** 1989 Jul 25; 28(15):6418–22

Interaction of copper(II) with hemoglobins in the unliganded conformation. Manoharan PT, et al. **Biochemistry** 1989 Sep 5;28(18):7148–53

Electron transfer between cytochrome a and copper A in cytochrome c oxidase: a perturbed equilibrium study. Morgan JE, et al. **Biochemistry** 1989 Aug 22;28(17):6975–83

An EXAFS study of the copper accumulated by yeast cells. Desideri A, et al. **Biol Met** 1990;3(1):45–7

The effect of tetrathiomolybdate on the metabolism of copper by hepatocytes and fibroblasts. McArdle HJ, et al. **Biol Trace Elem Res** 1989 Nov;22(2):179–88

Serum and liver zinc, copper, and iron in chicks infected with Eimeria acervulina or Eimeria tenella. Richards MP, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:207–19

Copper absorption in young men fed adequate and low zinc diets. Turnlund JR, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:31–41

Effects of parathyroidectomy on tissue calcium, phosphorus, magnesium, and copper concentrations in aluminum–loaded uremic rats. Vukičević S, et al. **Biol Trace Elem Res** 1989 Oct;22(1):45–53

Electron paramagnetic resonance investigation of photosynthetic reaction centers from Rhodobacter sphaeroides R–26 in which Fe2+ was replaced by Cu2+. Determination of hyperfine interactions and exchange and dipole–dipole interactions between Cu2+ and QA–. Calvo R, et al. **Biophys J** 1990 Jul;58(1):149–65

Effect of experimental zinc deficiency and repletion on sodium, potassium, copper and iron concentrations in guinea–pigs. Gupta RP, et al. **Br J Nutr** 1989 Sep; 62(2):407–14

The effect of D–penicillamine on metallothionein mRNA levels and copper distribution in mouse hepatocytes. McArdle HJ, et al. **Chem Biol Interact** 1990;75(3):315–24

Correlation of cadmium–induced nephropathy and the metabolism of endogenous copper and zinc in rats. Chmielnicka J, et al. **Ecotoxicol Environ Safety** 1989 Dec;

18(3):268–76
Binding of Cu(II), Tb(III) and Fe(III) to chicken ovotransferrin. A kinetic study. Taniguchi T, et al. **Eur Biophys J** 1990;18(1):1–8
Analysis of hepatic copper, zinc, metallothionein and metallothionein–Ia mRNA in developing sheep. Paynter JA, et al. **Eur J Biochem** 1990 May 31;190(1):149–54
The role of copper in the stability of ascorbate oxidase towards denaturing agents. Savini I, et al. **Eur J Biochem** 1990 Jul 5;190(3):491–5
RNA sequence and the nature of the CuA–binding site in cytochrome c oxidase. Covello PS, et al. **FEBS Lett** 1990 Jul 30;268(1):5–7
Multifrequency EPR evidence for a bimetallic center at the CuA site in cytochrome c oxidase. Kroneck PM, et al. **FEBS Lett** 1990 Jul 30;268(1):274–6
Protective effect of lipoproteins containing apoprotein A–I on Cu2+–catalyzed oxidation of human low density lipoprotein. Ohta T, et al. **FEBS Lett** 1989 Nov 6; 257(2):435–8
Cloning, expression, and occurrence of the Brucella Cu–Zn superoxide dismutase. Bricker BJ, et al. **Infect Immun** 1990 Sep;58(9):2935–9
Interaction of copper(I) with nucleic acids. Prütz WA, et al. **Int J Radiat Biol** 1990 Aug;58(2):215–34
Effects of faunation and type of dietary protein on gastric solubility and liver content of copper in sheep. Ivan M. **J Anim Sci** 1989 Nov;67(11):3028–35
Is the first enzyme of the shikimate pathway, 3–deoxy–D–arabino–heptulosonate–7–phosphate synthase (tyrosine sensitive), a copper metalloenzyme? Baasov T, et al. **J Bacteriol** 1989 Nov;171(11):6155–60
Reconstitution of Cu,Zn–superoxide dismutase by the Cu(I)-glutathione complex. Ciriolo MR, et al. **J Biol Chem** 1990 Jul 5;265(19):11030–4
Electron spin echo envelope modulation evidence for carbonate binding to iron(III) and copper(II) transferrin and lactoferrin. Eaton SS, et al. **J Biol Chem** 1990 May 5;265(13):7138–41
The ligand specificity for uptake of complexed copper–67 by brain hypothalamic tissue is a function of copper concentration and copper:ligand molar ratio. Katz BM, et al. **J Biol Chem** 1990 Feb 5;265(4):2017–21
Copper uptake in wild type and copper metallothionein–deficient Saccharomyces cerevisiae. Kinetics and mechanism. Lin CM, et al. **J Biol Chem** 1990 Jun 5;265(16):9194–200
pH–dependent redox activity and fluxionality of the copper site in amicyanin from Thiobacillus versutus as studied by 300– and 600– MHz 1H NMR. Lommen A, et al. **J Biol Chem** 1990 Feb 15;265(5):2768–74
Heme–copper and heme–heme interactions in the cytochrome bo–containing quinol oxidase of Escherichia coli. Salerno JC, et al. **J Biol Chem** 1990 Mar 15; 265(8):4364–8
Infrared evidence of cyanide binding to iron and copper sites in bovine heart cytochrome c oxidase. Implications regarding oxygen reduction. Yoshikawa S, et al. **J Biol Chem** 1990 May 15;265(14):7945–58
Z–DNA is formed by poly (dC–dG) and poly (dm5C–dG) at micro or nanomolar concentrations of some zinc(II) and copper(II) complexes. Woisard A, et al. **J Biomol Struct Dyn** 1985 Jun;2(6):1205–20
Comparison of three histochemical staining methods for the detection of copper in white perch (Morone americana) with abnormal hepatic copper storage. Bunton TE. **J Comp Pathol** 1990 Jan;102(1):25–31
Developmental changes in hepatic copper proteins in the guinea pig. Bingle CD, et al. **J Hepatol** 1990 Mar; 10(2):138–43
Noncovalent interactions in ternary complexes of spermine and copper(II) with adenosine 5'–triphosphate and tripolyphosphate. Antonelli ML, et al. **J Inorg Biochem** 1989 Nov;37(3):201–11
Quantitative investigation of copper(II) and zinc(II) complexes with S–carboxymethyl–L–cysteine and computer–simulated appraisal of their potential significance in vivo. Brumas V, et al. **J Inorg Biochem** 1989 Dec; 37(4):309–23
Interaction of water–soluble Cu(II), Ni(II), and Co(III) porphyrins with polynucleotides. Bütje K, et al. **J Inorg Biochem** 1990 May;39(1):75–92
Drug–metal interactions: copper(II) complex of the antidiabetic drug acetohexamide and pyridine. Pezeshk A, et al. **J Inorg Biochem** 1990 Mar;38(3):185–97
Binding of Cu(II) to non–prosthetic sites in ceruloplasmin and bovine serum albumin. Zgirski A, et al. **J Inorg Biochem** 1990 Jun;39(2):137–48
Effects of the copper chelators diethyldithiocarbamate and bathocuproine sulfonate on interferon and its antiviral state. Calvert JG, et al. **J Interferon Res** 1990 Feb;10(1):13–23
Measurement of nonradioactive isotopes of copper in hair with inductively coupled plasma mass spectrometry. Dever M, et al. **J Invest Dermatol** 1990 Mar;94(3):322–6
Pancreaticobiliary secretion of zinc and copper in normal persons and patients with Wilson's disease. Lee HH, et al. **J Lab Clin Med** 1990 Sep;116(3):283–8
Estrogen receptor interaction with immobilized metals: differential molecular recognition of Zn2+, Cu2+ and Ni2+ and separation of receptor isoforms. Hutchens TW, et al. **J Mol Recognit** 1988 Apr;1(2):80–92
Hair trace elements in cerebellar degeneration: low copper levels in late cortical cerebellar atrophy. Oishi M, et al. **J Neurol** 1990 Jun;237(3):163–5
Age–related changes in metallothionein, copper, copper–associated protein, and lipofuscin in human liver: a histochemical and immunohistochemical study. Fuller CE, et al. **J Pathol** 1990 Jun;161(2):167–72
Routine L–ascorbic acid supplementation does not alter iron, copper, and zinc balance in low–birth–weight infants fed a cows'–milk formula. Stack T, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):351–6
Copper diseases [letter; comment] Brewer GJ, et al. **Neurology** 1990 Apr;40(4):725 Comment on: Neurology 1988 Sep;38(9):1493–5.
Anticopper treatment inhibits pseudopodial protrusion and the invasive spread of 9L gliosarcoma cells in the rat brain. Brem S, et al. **Neurosurgery** 1990 Mar;26(3):391–6
Hepatic copper metabolism in a mouse model for Menkes' kinky hair syndrome. Castillo RO, et al. **Pediatr Res** 1990 May;27(5):492–6
Bronze baby syndrome: an animal model. Jori G, et al. **Pediatr Res** 1990 Jan;27(1):22–5
The hepatic lipid peroxidation, copper and fibrosis in cholestatic rats. Aykac G, et al. **Pharmacol Res** 1989 Nov–Dec;21(6):701–6
Pregnancy–induced mobilization of copper and zinc bound to renal metallothionein in cadmium–loaded rats. Suzuki KT, et al. **Toxicology** 1990 Mar 16;60(3):199–210
A review of the biochemical roles, toxicity and interactions of zinc, copper and iron: II. Copper. Abdel–Mageed AB, et al. **Vet Hum Toxicol** 1990 Jun;32(3):230–4 (0 ref.)
[A study on the pathogenesis of hepatolenticular degeneration using an in vitro model] Chen XZ. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Jun; 22(3):133–5, 190 (Eng. Abstr.) **(Chi)**
[Pathogenesis of transparency disorders of the optical environment of the eye. IV. Electron microscopy study of the vitreous body in chalcosis] Synek S, et al. **Cesk Oftalmol** 1989 Jul;45(4):299–307 (Eng. Abstr.) **(Cze)**
[Copper in the normal and diabetic pregnancy and in the perinatal period] Speich M. **Rev Fr Gynecol Obstet** 1990 Jan;85(1):34–9 (34 ref.) (Eng. Abstr.) **(Fre)**
[A nutrition survey of a group of athletes with particular reference to magnesium, zinc and copper intake, and to the relative intra– and extra–cellular levels] Borella P, et al. **Ann Ig** 1989 May–Aug;1(3–4):769–87 (Eng. Abstr.) **(Ita)**
[Levels of copper and its antagonists in mice with natural lymphocytic leukemia] Kaszubkiewicz C, et al. **Pol Arch Weter** 1988;28(1–2):35–43 (Eng. Abstr.) **(Pol)**
[Wilson's disease. Hepatic manifestations] Oliveira e Silva A, et al. **Arq Gastroenterol** 1989 Jul–Sep;26(3):47–9 (19 ref.) **(Por)**
[The role of microelements in the pathogenesis and clinical course of bronchial asthma] Fedoseev GB, et al. **Klin Med (Mosk)** 1989 Dec;67(12):44–8 **(Rus)**
[Cardiac metabolism and free radicals] Zarco P. **Rev Clin Esp** 1989 Nov;185(8):415–22 (23 ref.) **(Spa)**
[Copper in hepatocytes as a prognostic factor (editorial)] Arias Vallejo E. **Rev Esp Enferm Apar Dig** 1989 Nov; 76(5):474 **(Spa)**

PHARMACOKINETICS

Copper–67 labeled porphyrin localization in inflamed tissue. Cole DA, et al. **Adv Exp Med Biol** 1989;258:259–72
Mechanism of copper transport and delivery in mammals: review and recent findings. Goode CA, et al. **Adv Exp Med Biol** 1989;258:131–44
Factors affecting copper absorption in humans and animals. Johnson PE. **Adv Exp Med Biol** 1989;258:71–9 (32 ref.)
Copper absorption as affected by supplemental calcium, magnesium, manganese, selenium and potassium. Kies C, et al. **Adv Exp Med Biol** 1989;258:45–58 (76 ref.)
The biodistribution of radiocopper–labeled compounds. Mercer–Smith JA, et al. **Adv Exp Med Biol** 1989;258:103–21
Stable isotope studies of the effect of dietary copper on copper absorption and excretion. Turnlund JR. **Adv Exp Med Biol** 1989;258:21–8 (12 ref.)
Excess dietary methionine decreases indices of copper status in the rat. Strain JJ, et al. **Ann Nutr Metab** 1990;34(2):93–7
Intracellular copper transport in cultured hepatoma cells. Freedman JH, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):134–40
Influence of heavy metal mixtures on erythrocyte metabolism. Antonowicz J, et al. **Int Arch Occup Environ Health** 1990;62(3):195–8
Zinc and copper nutritional studies in very low birth weight infants: comparison of stable isotopic extrinsic tag and chemical balance methods. Ehrenkranz RA, et al. **Pediatr Res** 1989 Oct;26(4):298–307

PHARMACOLOGY

Metalloforms of metallothionein induced by parenteral copper: the influence of route of administration. McCormick CC, et al. **Adv Exp Med Biol** 1989;258:123–30
Copper complexes stimulate hemopoiesis and lymphopoiesis. Soderberg LS, et al. **Adv Exp Med Biol** 1989;258:209–17
Inactivation of alpha 1–proteinase inhibitor by Cu(II) and hydrogen peroxide. Kwon NS, et al. **Agents Actions** 1990 Mar;29(3–4):388–93
Control of B16 melanoma cells differentiation and proliferation by CuSO4 and vitamin C. De Pauw–Gillet MC, et al. **Anticancer Res** 1990 Mar–Apr;10(2A):391–5
Effects of iron, copper and zinc on the activity of ribonucleotide reductase in normal and leukemic human lymphocytes. Oblender M, et al. **Anticancer Res** 1990 Jan–Feb;10(1):123–7
Copper–induced production of copper–binding supernatant proteins by the marine bacterium Vibrio alginolyticus. Harwood–Sears V, et al. **Appl Environ Microbiol** 1990 May; 56(5):1327–32
Efficacy of copper and silver ions and reduced levels of free chlorine in inactivation of Legionella pneumophila. Landeen LK, et al. **Appl Environ Microbiol** 1989 Dec; 55(12):3045–50
Studies on contractures induced in mouse diaphragm by caffeine and cupric and selenite ions. Lin–Shiau SY, et al. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug;300:265–80
Apparent sequence preference in cleavage of linear B–DNA by the Cu(II):thiol system. John DC, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1235–42
Polymerization of factor B of the alternative complement pathway via disulfide bond(s) in the presence of Cu2+ and stimulation by C3b, the major fragment of C3. Matsushita M, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):101–5
Detection by chemical cross–linking of bovine brain synapsin I self–association. Font B, et al. **Biochem J** 1989 Dec 15; 264(3):893–9
Inhibition of transition metal ion–catalysed ascorbate oxidation and lipid peroxidation by allopurinol and oxypurinol. Ko KM, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):803–9
Antimalarial activity of diethyldithiocarbamate. Potentiation by copper. Meshnick SR, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):213–6
Polyunsaturated fatty acid profiles and alpha–tocopherol levels in plasma and whole blood incubated with copper. Evidence of inhibition of lipoperoxidation in plasma by hemolysate. Chahboun S, et al. **Biochim Biophys Acta** 1990 Feb 23;1042(3):324–9
Hemolysis of rabbit erythrocytes in the presence of copper ions. Inhibition by albumin and ceruloplasmin. Caffrey JM Jr, et al. **Biol Trace Elem Res** 1990 Apr;25(1):11–9
Effects of interaction between 65Zn, cadmium, and copper in rats. Chmielnicka J, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:285–92
Effect of dietary copper on vanadate toxicity in chicks. Hill CH. **Biol Trace Elem Res** 1989–90 Winter;23:17–23
Cadmium–induced alterations in ocular trace elements. Influence of dietary selenium and copper. Jamall IS, et al. **Biol Trace Elem Res** 1989–90 Winter;23:55–63
Strand scission in DNA induced by quercetin and Cu(II): role of Cu(I) and oxygen free radicals. Rahman A, et al. **Carcinogenesis** 1989 Oct;10(10):1833–9
Differential effects of copper and zinc on human peripheral blood monocyte cytokine secretion. Scuderi P. **Cell Immunol** 1990 Apr 1;126(2):391–405
Antibacterial action of copper in respiratory therapy apparatus [letter] Deane RS. **Chest** 1971 May;59(5):587–8
Effects of copper on the tyrosinase of liver pigment cells from Rana esculenta L. Cicero R, et al. **Comp Biochem Physiol [B]** 1990;96(2):393–7
Methoxatin (PQQ), coenzyme for copper–dependent amine and mixed–function oxidation in mammalian tissues. Paz MA, et al. **Connect Tissue Res** 1989;20(1–4):251–7 (10 ref.)
Effect of cupric ions on the initiation protein synthesis rate in the human endometrium. Hernandez–Perez O, et al. **Contraception** 1989 Dec;40(6):751–61
The influence of copper surface area on menstrual blood loss and iron status in women fitted with an IUD. Milsom I, et al. **Contraception** 1990 Mar;41(3):271–81
Interaction between Cu(II) and thyroxine–like compounds in mitochondrial swelling studies. Cash WD, et al. **Endocrinology** 1967 Aug;81(2):291–8
Inhibition of Desulfovibrio gigas hydrogenase with copper salts and other metal ions. Fernandez VM, et al. **Eur J Biochem** 1989 Nov 6;185(2):449–54
Effect of metals on nucleoside hydroperoxide, a product of ionizing radiation in DNA. Tofigh S, et al. **Free Radic Biol Med** 1989;7(2):131–43
Effect of dietary zinc and copper on peripheral blood plasma cholesterol, testosterone and histomorphology of testes in rats. Mehta U, et al. **Indian J Exp Biol** 1989 May; 27(5):469–71
Deleterious synergistic effects of ascorbate and copper on the development of Plasmodium falciparum: an in vitro study in normal and in G6PD–deficient erythrocytes. Marva E, et al. **Int J Parasitol** 1989 Nov;19(7):779–85
Complexing of copper in drinking water samples to enhance recovery of Aeromonas and other bacteria. Versteegh JF, et al. **J Appl Bacteriol** 1989 Nov;67(5):561–6
Cu,Zn superoxide dismutase and copper deprivation and toxicity in Saccharomyces cerevisiae. Greco MA, et al. **J Bacteriol** 1990 Jan;172(1):317–25
Lipid peroxidation inactivates rat liver microsomal glycerol–3–phosphate acyl transferase. Effect of iron and copper salts and carbon tetrachloride. Thomas PD, et al. **J Biol Chem** 1990 Feb 15;265(5):2684–91
Effects of heavy metal on rat liver microsomal Ca2(+)-ATPase and Ca2+ sequestering. Relation to SH groups. Zhang GH, et al. **J Biol Chem** 1990 Feb 5; 265(4):2184–9

Synergistic antifungal action of 8-quinolinol and its bischelate with copper(II) and with mixed ligand chelates composed of copper(II), 8-quinolinol, and aromatic hydroxy acids. Gershon H, et al. **J Pharm Sci** 1989 Nov;78(11):975-8

Induction of potassium efflux by cupric ions in Pseudomonas syringae ATCC 12271 and its correlation with cell viability. Cabral JP. **Microbios** 1989;60(244-245):141-50

A single amino acid change in CUP2 alters its mode of DNA binding. Buchman C, et al. **Mol Cell Biol** 1990 Sep; 10(9):4778-87

Metal-specific posttranscriptional control of human metallothionein genes. Sadhu C, et al. **Mol Cell Biol** 1989 Dec;9(12):5738-41

Yeast vectors for cloning and copper-inducible expression of foreign genes. Macreadie IG. **Nucleic Acids Res** 1990 Feb 25;18(4):1078

Copper and the ACE1 regulatory protein reversibly induce yeast metallothionein gene transcription in a mouse extract. Culotta VC, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8377-81

Effect of copperglycinate on the radiation induced micronuclei formation in mice bone marrow. Jagetia GC, et al. **Radiat Environ Biophys** 1990;29(2):115-8

Inositol hexaphosphate and its Cu(II) coordinate complex as inhibitors of intestinal alkaline phosphatase. Martin CJ, et al. **Res Commun Chem Pathol Pharmacol** 1989 Sep; 65(3):289-96

Inhibition of sugar and amino acid transport across rat jejunum by cadmium, copper and mercury. Rodríguez-Yoldi MJ, et al. **Rev Esp Fisiol** 1989;45 Suppl:207-14

Release of 2-thiobarbituric acid reactive products from glutamate or deoxyribonucleic acid by 1,2,4-benzenetriol or hydroquinone in the presence of copper ions. Rao GS, et al. **Toxicology** 1989 Nov;59(1):59-65

[The effect of Cu2+, Zn2+ cations and biogenic amines on the nuclear poly(ADP-ribose) polymerase activity in the rat brain] Zaalishvili TM, et al. **Biokhimiia** 1990 Apr; 55(4):659-64 (Eng. Abstr.) (Rus)

[Monovalent copper as a blockader of sodium transport through the frog skin] Skul'skiĭ IA, et al. **Dokl Akad Nauk SSSR** 1989;307(3):737-9 (Rus)

[The effect of CuCl2 on the efflux of inorganic phosphate from Escherichia coli] Lebedev VS, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov-Dec;(6):934-6 (Eng. Abstr.) (Rus)

[The effect of copper compounds on pigment formation in Bacillus subtilis and Bacillus megaterium] Shliakhov EN, et al. **Mikrobiol Zh** 1985 Nov-Dec;47(6):33-6 (Eng. Abstr.) (Rus)

[Evaluation of antibacterial action and synergistic effect of copper sulfate and antibiotics in respect to the main causative agents of chronic pyelonephritis in children] Lagutina LE, et al. **Pediatriia** 1989;(12):60-2 (Rus)

PHYSIOLOGY

Effects in vitro of copper and zinc on hepatic cytochrome P-450 activities. Moreno JJ, et al. **Comp Biochem Physiol [C]** 1989;93(2):355-7

Increased spectrin proteolysis in the brindled mouse brain. Seubert P, et al. **Neurosci Lett** 1990 Jan 22;108(3):303-8

POISONING

Copper sulphate poisoning and acute renal failure [editorial] Dash SC. **Int J Artif Organs** 1989 Oct;12(10):610

Copper poisoning in four llamas. Junge RE, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):987-9

Intracellular distribution of copper in the liver of copper-loaded sheep--a subcellular fractionation study. Kumaratilake JS, et al. **J Comp Pathol** 1989 Aug; 101(2):161-76

Intravenously administered tetra-thiomolybdate and the removal of copper from the liver of copper-loaded sheep. Kumaratilake JS, et al. **J Comp Pathol** 1989 Aug; 101(2):177-99

Fatal poisonings by copper sulfate ingested from "spiritual water". Akintonwa A, et al. **Vet Hum Toxicol** 1989 Oct; 31(5):453-4

Copper levels in sheep surviving an acute toxic exposure. Stahr HM, et al. **Vet Hum Toxicol** 1989 Dec;31(6):588

Deaths in lambs following overdose with a copper/cobalt mixture [letter] Macleod NS, et al. **Vet Rec** 1990 Jun 30; 126(26):648-9

[Interactive relations between copper, iron, zinc, arsenic, cadmium and lead in the liver in sheep after experimental poisoning with copper oxide] Bireš J. **Vet Med (Praha)** 1989 Nov;34(11):665-74 (Eng. Abstr.) (Slo)

STANDARDS

Upper limits of zinc, copper and manganese in infant formulas. Hambidge KM, et al. **J Nutr** 1989 Dec;119(12 Suppl):1861-4 (26 ref.)

THERAPEUTIC USE

Bioavailable copper complexes offer a physiologic approach to treatment of chronic diseases. Sorenson JR, et al. **Adv Exp Med Biol** 1989;258:229-34

The antitumor activity of Cu(II)KTS, the copper (II) chelate of 3-ethoxy-2-oxobutyraldehyde bis(thiosemicarbazone). Crim JA, et al. **Cancer Res** 1967 Jul;27(7):1278-85

Biochemical study on the critical period for treatment of the mottled brindled mouse. Fujii T, et al. **J Neurochem** 1990 Sep;55(3):885-9

Effects of oral copper administration to pregnant heterozygous brindled mice on fetal viability and copper levels. Kasama T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Dec;35(6):627-38

Copper complexes offer a physiological approach to treatment of chronic diseases. Sorenson JR. **Prog Med Chem** 1989;26:437-568 (736 ref.)

Effects of chelators on copper therapy of macular mouse, a model animal of Menkes' kinky disease. Tanaka K, et al. **Res Commun Chem Pathol Pharmacol** 1990 Aug; 69(2):217-27

Viral infection correlated with superoxide anion radicals production and natural and synthetic copper complexes. Tomas E, et al. **Virologie** 1989 Oct-Dec;40(4):305-12

Investigations on the influence of copper succinate on the production of superoxide anion radicals by bovine small intestinal mucosa cells. Harisch G, et al. **Zentralbl Veterinarmed [A]** 1989 Oct;36(8):576-84

[A study of the radioprotective effect of a Co(III) biocomplex based on the fluorometric characteristics of the peripheral blood lymphocytes] Siddikov RK, et al. **Radiobiologiia** 1990 May-Jun;30(3):373-7 (Rus)

[Effectiveness of the use of copper vapor lasers in the treatment of peptic ulcer] Matiushichev VB, et al. **Sov Med** 1990;(3):60-2 (Rus)

TOXICITY

The effects of pesticides on some biochemical parameters of carp (Cyprinus carpio L.). Asztalos B, et al. **Arch Environ Contam Toxicol** 1990 Mar-Apr;19(2):275-82

Oxidative damage to human red cells induced by copper and iron complexes in the presence of ascorbate. Shinar E, et al. **Biochim Biophys Acta** 1989 Oct 30;1014(1):66-72

Cellular mechanisms of toxicity and tolerance in the copper-loaded rat. III. Ultrastructural changes and copper localization in the kidney. Fuentealba IC, et al. **Br J Exp Pathol** 1989 Oct;70(5):543-56

Influence of humic acid on the toxicity of copper, cadmium and lead to the unicellular alga, Synechosystis aquatilis. Shanmukhappa H, et al. **Bull Environ Contam Toxicol** 1990 Jun;44(6):840-3

Differential response of marine diatoms to trace metals. Tadros MG, et al. **Bull Environ Contam Toxicol** 1990 Jun; 44(6):826-31

Effects of CuCl2 on the germination response of two populations of the Saltmarsh cordgrass, Spartina alterniflora. Waddell DC, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):764-9

Temperature preference as an indicator of the chronic toxicity of cupric ions to Mozambique tilapia. Welch TJ, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):761-8

Teratogenicity of combinations of sodium dichromate, sodium arsenate and copper sulphate in the rat. Mason RW, et al. **Comp Biochem Physiol [C]** 1989;93(2):407-11

Ascorbate-enhanced copper toxicity on bovine corneal endothelial cells in vitro. Yu HS, et al. **Curr Eye Res** 1990 Feb;9(2):177-82

Studies on synergistic toxic effects of copper and dithiocarbamate pesticides with the ciliate protozoan Colpidium campylum (Stokes). Bonnemain H, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):320-6

The effects of salinity and temperature on the toxicity of copper to 1-day and 7-day-old larvae of Hediste (Nereis) diversicolor (O. F. Muller). Ozoh PT, et al. **Ecotoxicol Environ Safety** 1990 Feb;19(1):24-32

Development of a standardized reproduction toxicity test with the earthworm species Eisenia fetida andrei using copper, pentachlorophenol and 2,4-dichloroaniline. van Gestel CA, et al. **Ecotoxicol Environ Safety** 1989 Dec; 18(3):305-12

DNA single strand breakage by H2O2 and ferric or cupric ions: its modulation by histidine. Tachon P. **Free Radic Res Commun** 1990;9(1):39-47

Ferric and cupric ions requirement for DNA single-strand breakage by H2O2. Tachon P. **Free Radic Res Commun** 1989;7(1):1-10

Oxidant injury to hepatic mitochondrial lipids in rats with dietary copper overload. Modification by vitamin E deficiency. Sokol RJ, et al. **Gastroenterology** 1990 Oct; 99(4):1061-71

Toxicity of copper-based dental alloys in cell culture. Bumgardner JD, et al. **J Biomed Mater Res** 1989 Oct; 23(10):1103-14

Hepatocellular copper toxicity and its attenuation by zinc. Schilsky ML, et al. **J Clin Invest** 1989 Nov;84(5):1562-8

Treatment of Wilson's disease with zinc. VII. Protection of the liver from copper toxicity by zinc-induced metallothionein in a rat model. Lee DY, et al. **J Lab Clin Med** 1989 Dec;114(6):639-45

Clastogenic effects of copper sulphate on the bone marrow chromosomes of mice in vivo. Agarwal K, et al. **Mutat Res** 1990 Jan;243(1):1-6

The interactions of copper, lead and ethanol in rats: effects on some biochemical parameters of blood. Miniuk K, et al. **Pol J Pharmacol Pharm** 1989 May-Jun;41(3):273-80

In vitro effect of copper on the stromal cells of bone marrow in rats. Miszta H. **Toxicol Ind Health** 1989 Dec;5(6):1117-23

In vitro effect of copper on the stromal cells of bone marrow in rats. Miszta H. **Toxicol Ind Health** 1990 Jan;6(1):33-9

A review of the biochemical roles, toxicity and interactions of zinc, copper and iron: I. Zinc. Abdel-Mageed AB, et al. **Vet Hum Toxicol** 1990 Feb;32(1):34-9 (0 ref.)

[Hygienic evaluation and the effects of toxic factors in the work environment of copper-processing plants] Bobev G, et al. **Probl Khig** 1989;14:108-18 (Eng. Abstr.) (Bul)

[Pathogenesis of disorders of transparency of the optic media of the eye. VI. Transmission electron microscopy in chalcosis of the lens] Moster MF, et al. **Cesk Oftalmol** 1990 Jul;46(4):276-84 (Eng. Abstr.) (Cze)

[Pathogenesis of disorders of transparency of the optic medium of the eye. V. Ultrastructure of lens in chalcosis using scanning electron microscopy] Synek S, et al. **Cesk Oftalmol** 1990 Jul;46(4):267-75 (Eng. Abstr.) (Cze)

[Modification of the toxic effects of phenylmercury by adaptive reactions of the rat kidney. 2. Adaptation to phenylmercury acetate, cadmium chloride and cupric chloride] Solecki R. **Arch Exp Veterinarmed** 1989; 43(4):551-8 (Eng. Abstr.) (Ger)

[Principles of growth of unidirectional combined effects of harmful substances after increase in their quantity] Annaeva LR, et al. **Gig Sanit** 1989 Jul;(7):10-3 (Eng. Abstr.) (Rus)

[Lipid peroxidation and the status of the antioxidant systems of the blood and liver in isolated and combined action of copper- containing dust and sulfur dioxide] Beliaev VS, et al. **Gig Tr Prof Zabol** 1989;(8):24-7 (Eng. Abstr.) (Rus)

[Carcinogenic activity of nickel-containing welding aerosols in relation to their copper and manganese content] Gorba'n LN, et al. **Gig Tr Prof Zabol** 1989;(8):27-31 (Eng. Abstr.) (Rus)

URINE

Copper determination in urine by flow injection analysis with electrochemical detection at platinum disk microelectrodes of various radii. Luscombe DL, et al. **Anal Chem** 1990 Jan 1;62(1):27-31

Trace metal interactions in vivo: inorganic cobalt enhances urinary copper excretion without producing an associated zincuresis in rats. Rosenberg DW, et al. **J Nutr** 1989 Sep; 119(9):1259-68

COPPER RADIOISOTOPES

Copper-67 labeled porphyrin localization in inflamed tissue. Cole DA, et al. **Adv Exp Med Biol** 1989;258:259-72

Labeling antibodies with copper radionuclides using N-4-nitrobenzyl-5-(4-carboxyphenyl)-10,15,20-tris(4-sulfophenyl) porphine. Roberts JC, et al. **Int J Rad Appl Instrum [A]** 1989;40(9):775-81

Structure-activity relationships for metal-labeled blood flow tracers: comparison of keto aldehyde bis(thiosemicarbazonato)copper(II) derivatives. John EK, et al. **J Med Chem** 1990 Jun;33(6):1764-70

A new zinc-62/copper-62 generator as a copper-62 source for PET radiopharmaceuticals. Fujibayashi Y, et al. **J Nucl Med** 1989 Nov;30(11):1838-42

DIAGNOSTIC USE

Evaluation of a potential generator-produced PET tracer for cerebral perfusion imaging: single-pass cerebral extraction measurements and imaging with radiolabeled Cu-PTSM. Mathias CJ, et al. **J Nucl Med** 1990 Mar; 31(3):351-9

METABOLISM

Stable bifunctional chelates of metals used in radiotherapy. Moi MK, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):789s-793s

Muscle cell cultures in Menkes' disease: copper accumulation in myotubes. van den Berg GJ, et al. **J Inherited Metab Dis** 1990;13(2):207-11

THERAPEUTIC USE

Treatment of mice bearing a Krebs ascitic tumor by means of a protocol based on radioactive copper (64Cu). III. Efficiency of the anticancer treatment according to the stage of tumor development. Apelgot S, et al. **Anticancer Res** 1989 Jul-Aug;9(4):955-60

Treatment of mice bearing a Krebs ascitic tumor by means of a protocol based on radioactive copper (64Cu). I. The "cancer animal": a new concept leading to an effective antitumoral treatment. Apelgot S, et al. **Anticancer Res** 1989 Jul-Aug;9(4):941-6

Treatment of mice bearing a Krebs ascitic tumor by means of a protocol based on radioactive copper (64Cu). IV. Consequences of the nature of cancer: tumor-resistant mice. Guillé E, et al. **Anticancer Res** 1990 Jan-Feb; 10(1):133-8

Treatment of mice bearing a Krebs ascitic tumor by means of a protocol based on radioactive copper (64Cu). II. Analysis of the treatment. Guillé E, et al. **Anticancer Res** 1989 Jul-Aug;9(4):947-53

COPRINUS see under AGARICALES

COPROPHAGIA

MORTALITY

Developmental time and mortality of the reduviid bug Triatoma infestans with differential exposure to coprophagic infections with Blastocrithidia triatomae (Trypanosomatidae). Schaub GA, et al. **J Invertebr Pathol** 1990 Jan;55(1):17–27

PHYSIOPATHOLOGY

Problems in estimating the extent of coprophagy in the rat. Fajardo G, et al. **Br J Nutr** 1989 Nov;62(3):551–61

PREVENTION & CONTROL

Effects of prevention of coprophagy on pregnant mice—is coprophagy beneficial on a balanced diet? Ebino KY, et al. **Jikken Dobutsu** 1989 Jul;38(3):245–52

COPROPORPHYRINOGEN OXIDASE see under **OXIDOREDUCTASES**

COPROPORPHYRINOGENS see under **PORPHYRINOGENS**

COPROPORPHYRINS see under **PORPHYRINS**

COPULATION

Relationship between serving capacity of beef bulls as predicted by the yard test and their fertility during paddock mating. Blockey MA. **Aust Vet J** 1989 Nov;66(11):348–51

Fertility of sows mated on different days of the week. Love RJ, et al. **Aust Vet J** 1990 Jan;67(1):1–3

Effects of male pre-ejaculatory vocalizations on female receptive behavior in the rat (Rattus norvegicus). White NR, et al. **J Comp Psychol** 1990 Jun;104(2):140–6

Receptivity of the female rat (Rattus norvegicus) after male devocalization: a ventral perspective. White NR, et al. **J Comp Psychol** 1990 Jun;104(2):147–51

DRUG EFFECTS

The long-term effects of 8-hydroxy-2-(di-n-propyl-amino)tetralin (8-OH-DPAT) on copulatory and exploratory behaviour in male rats. Johansson CE, et al. **Eur J Pharmacol** 1990 Mar 13; 178(1):1–9

Effects of intracranial implants of dihydrotestosterone on the reproductive physiology and behavior of male guinea pigs. Butera PC, et al. **Horm Behav** 1989 Sep;23(3):424–31

Testosterone implanted in the preoptic area of male Japanese quail must be aromatized to activate copulation. Watson JT, et al. **Horm Behav** 1989 Sep;23(3):432–47

D2/D1 ratio in the medial preoptic area affects copulation of male rats. Hull EM, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):422–7

Clonidine suppresses copulatory behavior and erectile reflexes in male rats: lack of effect of naloxone pretreatment. Clark JT, et al. **Neuroendocrinology** 1990 Mar;51(3):357–64

Pharmacological manipulation of anxiety and male rat sexual behavior. Fernández-Guasti A, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):263–7

Copulatory thrusting pattern in the male rat after acute treatment with GABA transaminase inhibitors. Agmo A, et al. **Physiol Behav** 1990 Feb;47(2):311–4

The induction by testosterone of aromatase activity in the preoptic area and activation of copulatory behavior. Balthazart J, et al. **Physiol Behav** 1990 Jan;47(1):83–94

Effect of clenbuterol on sexual behavior in male rats. Benelli A, et al. **Physiol Behav** 1990 Feb;47(2):373–6

Effects of intrathecal administration of 8-OH-DPAT on genital reflexes and mating behavior in male rats. Lee RL, et al. **Physiol Behav** 1990 Apr;47(4):665–9

The effects of depo-medroxyprogesterone acetate (DMPA) on copulation-related and agonistic behaviors in an island colony of stumptail macaques (Macaca arctoides). Linn GS, et al. **Physiol Behav** 1990 Mar;47(3):403–8

The effects of intrathecal administration of the dopamine agonist apomorphine on penile reflexes and copulation in the male rat. Pehek EA, et al. **Psychopharmacology (Berl)** 1989;99(3):304–8

PHYSIOLOGY

Precopulatory behaviour in male rats: ethological analysis and functional considerations. Hlinák Z. **Act Nerv Super (Praha)** 1990 Mar;32(1):12–34

J. Grossfield's unpublished work with the light-dependent auraria complex of Drosophila [letter] Ehrman L. **Behav Genet** 1989 Sep;19(5):735–6

Influence of food on frequency-dependent sexual activity of Drosophila melanogaster. Lichtenberger M, et al. **Behav Genet** 1989 Jul;19(4):575–91

Sexual selection in Nasuphoeta cinerea: inherited mating preference? Moore AJ. **Behav Genet** 1989 Sep;19(5):717–24

Frequency-dependent mating preferences in female fruitflies? Partridge L. **Behav Genet** 1989 Sep;19(5):725–8

Mating patterns of different Adh genotypes of Drosophila melanogaster. II. Testing rare-male mating advantage. Sanchez Prado JA, et al. **Behav Genet** 1989 Sep; 19(5):701–16

Comments on some criticisms of minority mating advantage experiments in Drosophila. Spiess EB. **Behav Genet** 1989 Sep;19(5):729–33

Gonadotropin-releasing hormone and norepinephrine release from the rabbit mediobasal and anterior hypothalamus during the mating-induced luteinizing hormone surge. Kaynard AH, et al. **Endocrinology** 1990 Sep;127(3):1176–85

Circulating estradiol and the activation of male and female copulatory behavior in Japanese quail (Coturnix japonica). Watson JT, et al. **Gen Comp Endocrinol** 1990 Feb; 77(2):229–38

The hormonal control of scent marking and precopulatory behavior in male gray short-tailed opossums (Monodelphis domestica). Fadem BH, et al. **Horm Behav** 1989 Sep; 23(3):381–92

Evidence for "memory" of cervical stimulation for the promotion of pregnancy in rats. Terkel J, et al. **Horm Behav** 1990 Mar;24(1):40–9

Endocrine correlates of mating-induced reductions in estrous behaviour in an induced ovulator, the ferret. Villars TA, et al. **Horm Behav** 1990 Jun;24(2):198–214

Failure of familiar males to prevent alien male-induced implantation block (the Bruce effect) in laboratory mice. Thomas KJ, et al. **Indian J Exp Biol** 1989 Nov;27(11):996–7

Effects of natural mating stimuli on serum luteinizing hormone, testosterone and estradiol-17 beta in yearling beef bulls. Lunstra DD, et al. **J Anim Sci** 1989 Dec; 67(12):3277–88

Mating-induced ovarian recrudescence in the red-sided garter snake. Mendonça MT, et al. **J Comp Physiol [A]** 1990 Mar;166(5):629–32

Effects of breeding season and mating on total number and distribution of spermatozoa in the epididymis of the brown marsupial mouse, Antechinus stuartii. Taggart DA, et al. **J Reprod Fertil** 1990 Jan;88(1):81–91

An improved method for accurately timed mating in rats. Harris MA, et al. **Lab Anim Sci** 1990 Jul;40(4):424–5

Modes of estrus induction as a factor in studies of the reproductive behavior of rodents. Dewsbury DA. **Neurosci Biobehav Rev** 1990 Summer;14(2):147–55 (83 ref.)

Sexual motivation: a neural and behavioural analysis of the mechanisms underlying appetitive and copulatory responses of male rats. Everitt BJ. **Neurosci Biobehav Rev** 1990 Summer;14(2):217–32 (97 ref.)

Forebrain influences on brainstem and spinal mechanisms of copulatory behavior: a current perspective on Frank Beach's contribution. Rose JD. **Neurosci Biobehav Rev** 1990 Summer;14(2):207–15 (30 ref.)

Increased dopamine release in the nucleus accumbens of copulating male rats as evidenced by in vivo voltammetry. Mas M, et al. **Neurosci Lett** 1990 Mar 14;110(3):303–8

Fetal uterine position affects copulation and scent marking by adult male gerbils. Clark MM, et al. **Physiol Behav** 1990 Feb;47(2):301–5

Prolonged copulatory behavior facilitates pregnancy success in the musk shrew. Clendenon AL, et al. **Physiol Behav** 1990 May;47(5):831–5

The effect of time of day on sperm competition and male reproductive success in laboratory rats. Spinka M. **Physiol Behav** 1990 Mar;47(3):483–8

COPYING PROCESSES

Fax units in general practice. Magennis AW. **Aust Fam Physician** 1989 Oct;18(10):1259–62, 1265–6

Fax, the tool of efficiency. Crossland C. **J Arkansas Med Soc** 1990 Jan;86(8):310–1

Poster and exhibit production with engineering-size xerographic copiers: a classroom application. Robinson R, et al. **J Biol Photogr** 1990 Jul;58(3):93–4

A slide duplicator attachment. Butel EM. **J Prosthet Dent** 1990 May;63(5):600–1

Nursing homes and fax machines [letter] Tangalos EG, et al. **JAMA** 1990 Aug 8;264(6):693–4

Photocopier's papillitis [letter] Galun E, et al. **Lancet** 1989 Oct 14;2(8668):929

Instant slides of radiographs for lectures. Rothstein SG, et al. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):506

[Selenium contents in blood and urine of persons working with copying machines] Pavlova SD, et al. **Gig Tr Prof Zabol** 1989;(11):15–7 (Eng. Abstr.) **(Rus)**

ECONOMICS

Suits may up reimbursement for PRO photocopying. Eubanks P. **Hospitals** 1989 Nov 5;63(21):52

METHODS

Poster and exhibit production with engineering-size xerographic copiers. Gray CA. **J Biol Photogr** 1990 Jul; 58(3):89–91

The use of video prints in digital imaging. McCloud T. **Radiogr Today** 1989 Sep;55(628):34–5

COR PULMONALE see **PULMONARY HEART DISEASE**

COR TRIATRIATUM

COMPLICATIONS

Cor triatriatum, coarctation of the aorta, and ventricular septal defect: a rare, surgically correctable anomaly. Yamaguchi M, et al. **Ann Thorac Surg** 1990 Mar;49(3):473–5

Hemoptysis: two unusual causes. Black MD, et al. **Can J Cardiol** 1990 Jan-Feb;6(1):27–30

[Raghib's syndrome associated with cor triatriatum—a rare surgical case report] Fujimura Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov; 37(11):2417–21 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Transesophageal color flow Doppler evaluation of cor triatriatum in an adult. Ludomirsky A, et al. **Am Heart J** 1990 Aug;120(2):451–5

Umbilical catheter masquerading at echocardiography as a left atrial mass. Crie JS, et al. **Clin Cardiol** 1989 Dec; 12(12):728–30

A patient with right and left atrial membranes: the role of transesophageal echocardiography and magnetic resonance imaging in diagnosis. Goldfarb A, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):350–3

Cor triatriatum sinister: echocardiographic assessment. Casta A. **P R Health Sci J** 1989 Aug;8(2):263–4

[Echocardiographic study of a cardiac murmur in cor triatriatum: a case report] Kobayashi A, et al. **J Cardiol** 1989 Sep;19(3):961–9 (Eng. Abstr.) **(Jpn)**

[Two-dimensional echocardiographic findings of cor triatriatum: differential diagnosis from total anomalous pulmonary venous connection to the coronary sinus] Saito A, et al. **J Cardiol** 1989 Mar;19(1):231–40 (Eng. Abstr.) **(Jpn)**

[Cor triatriatum with mitral incompetence—contribution to diagnosis and therapy] Poprawski K, et al. **Kardiol Pol** 1989;32(7–9):409–15 (Eng. Abstr.) **(Pol)**

[Unclear lung disease was cor triatriatum with late onset of symptoms] Roijer A, et al. **Lakartidningen** 1990 Mar 21; 87(12):953–6 **(Swe)**

RADIOGRAPHY

[The roentgenologic diagnosis of cor triatriatum sinistrum] Hu JQ. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Jun; 23(3):137–9 (Eng. Abstr.) **(Chi)**

SURGERY

Triatrial heart with persistent ostium primum and cleft mitral valve. Gahagan T, et al. **Ann Thorac Surg** 1967 Mar; 3(3):231–4

Surgical repair and postoperative course of an infant with infracardiac total anomalous pulmonary venous connection, cor triatriatum sinistrum and transposition of the great arteries. Thies WR, et al. **Eur J Cardiothorac Surg** 1990; 4(1):45–7

CORCHSULARIN see **STROPHANTHIDIN**

CORD BLOOD see **FETAL BLOOD**

CORD FACTORS see under **GLYCOLIPIDS**

CORDOTOMY

Glucocorticoid receptors and enzyme induction in the spinal cord of rats: effects of acute transection. González S, et al. **J Neurochem** 1990 Mar;54(3):834–40

The effects of lesions on autogenetic inhibition in the decerebrate cat. Iles JF, et al. **J Physiol (Lond)** 1989 Dec; 419:611–25

[Spinal cord stimulation and surgical cordotomy for nerve root scars following herniated lumbar disk intervention] Probst C. **Clin Ter** 1989 Nov 15;131(3):145–7 **(Ita)**

[Effect of mannitol administration and myelotomy on acute experimental spinal cord injury: investigation by spinal cord evoked potential] Isu T, et al. **No Shinkei Geka** 1990 Mar; 18(3):267–72 (Eng. Abstr.) **(Jpn)**

[Excitation and inhibition of highly excitable reflex curves in chronically denervated albino rats] Makil EA. **Fiziol Zh** 1989 Nov-Dec;35(6):73–9 (Eng. Abstr.) **(Rus)**

METHODS

[Cordotomy in pain caused by malignancy—the importance of invasive treatment in the preterminal phase] Skott A, et al. **Lakartidningen** 1990 Apr 11;87(15):1262–3 **(Swe)**

UTILIZATION

The use of chordotomy to treat pain from gynecologic cancer. Högberg T, et al. **Eur J Gynaecol Oncol** 1989; 10(5):337–40

CORE PROTEINS, VIRAL see **VIRAL CORE PROTEINS**

CORETHAMID see **NIKETHAMIDE**

CORN

Efficacy of cornstarch therapy in type III glycogen-storage disease. Gremse DA, et al. **Am J Clin Nutr** 1990 Oct; 52(4):671–4

Cornstarch ingestion after oral glucose loading: effect on glucose concentrations, hormone response, and symptoms in patients with postprandial hypoglycemic syndrome. Lozano R, et al. **Am J Clin Nutr** 1990 Oct;52(4):667–70

Antibody response reveal differences in oral tolerance to wheat and maize grain protein fractions. Johnson RB, et

al. **Clin Exp Immunol** 1990 Jan;79(1):135–40

Effects of cornstarch treatment in very young children with type I glycogen storage disease. Hayde M, et al. **Eur J Pediatr** 1990 Jun;149(9):630–3

Evaluation of alkali treatment for biodegradation of corn cobs by Aspergillus niger. Singh A, et al. **Folia Microbiol (Praha)** 1989;34(6):479–84

Effects of corn vs corn gluten feed on site, extent and ruminal rate of forage digestion and on rate and efficiency of gain. Hannah SM, et al. **J Anim Sci** 1990 Aug;68(8):2536–45

Effect of extrusion on the ileal and fecal digestibilities of lysine in yellow corn in diets for young pigs. Herkelman KL, et al. **J Anim Sci** 1990 Aug;68(8):2414–24

Influence of flake density on the comparative feeding value of steam-flaked corn for feedlot cattle. Zinn RA. **J Anim Sci** 1990 Mar;68(3):767–75

Blood responses of calves fed milk substitutes containing hydrolyzed fish protein and lime-treated corn flour. Diaz-Castaneda M, et al. **J Dairy Sci** 1989 Aug; 72(8):2095–106

Lactational evaluation of recombinant bovine somatotropin with corn and barley diets. Eisenbeisz WA, et al. **J Dairy Sci** 1990 May;73(5):1269–79

Structure, evolution and anaerobic regulation of a nuclear gene encoding cytosolic glyceraldehyde-3-phosphate dehydrogenase from maize. Martinez P, et al. **J Mol Biol** 1989 Aug 20;208(4):551–65

Hydrolysis and absorption of glucose polymers from rice compared with corn in chronic diarrhea of infancy [published erratum appears in J Pediatr 1990 Sep;117(3):502] Sloven DG, et al. **J Pediatr** 1990 Jun; 116(6):876–81

The effect of alfalfa-corn diets on cholesterol metabolism and gallstones in prairie dogs. Cohen BI, et al. **Lipids** 1990 Mar;25(3):143–8

The antiallergic action of some bioactive maize extracts and their possible effects on the immune response. Al-George DS. **Med Interne** 1989 Jul-Sep;27(3):237–40

Quality-protein maize as the sole source of dietary protein and fat for rapidly growing young children. Graham GG, et al. **Pediatrics** 1990 Jan;85(1):85–91

Effect of alkaline treatment ('akanwu') and supplementary value of corn or crayfish on the protein quality of breadfruit (Treculia Africana). Nzomiwu NR. **Plant Foods Hum Nutr** 1990 Apr;40(2):99–105

[The effect of a supplement of citric acid on the bioavailability of zinc from corn germ] Pallauf J, et al. **Z Ernahrungswiss** 1990 Mar;29(1):27–38 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Anaphylaxis due to cornstarch surgical glove powder. Seggev JS, et al. **Ann Allergy** 1990 Aug;65(2):152–5

Maize and risk of cancers of the oral cavity, pharynx, and esophagus in northeastern Italy. Franceschi S, et al. **J Natl Cancer Inst** 1990 Sep 5;82(17):1407–11

Apparent zearalenone intoxication in a dairy herd from feeding spoiled acid-treated corn. Coppock RW, et al. **Vet Hum Toxicol** 1990 Jun;32(3):246–8

ANALYSIS

Short term diet of precooked corn meal almost lacking in tryptophan and interspecific rat-mouse aggressive behaviour. Giammanco S, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):23–6

Energy-dispersive X-ray analysis of the mineral content of corn bran treated in vitro and by passage through the pig gastrointestinal tract. Dintzis FR, et al. **Biol Trace Elem Res** 1989 Jan-Feb;19(1–2):41–55

Incidence of mycotoxins in maize grains in Bihar State, India. Sinha KK. **Food Addit Contam** 1990 Jan-Feb;7(1):55–61

Availability of phosphorus in bone meal. Baker AM, et al. **J Assoc Off Anal Chem** 1989 Sep-Oct;72(5):867–9

Improved spectrophotometric determination of cyclopiazonic acid in poultry feed and corn. Chang-Yen I, et al. **J Assoc Off Anal Chem** 1990 Mar-Apr;73(2):257–9

Liquid chromatographic method for determination of aflatoxins B1, B2, G1, and G2 in corn and peanut products: collaborative study. Park DL, et al. **J Assoc Off Anal Chem** 1990 Mar-Apr;73(2):260–6

Maize high mobility group proteins bind to CCAAT and TATA boxes of a zein gene promoter. Grasser KD, et al. **J Biol Chem** 1990 Mar 15;265(8):4185–8

Natural occurrence of mycotoxins in some cereals. Pande N, et al. **Mycoses** 1990 Mar;33(3):126–8

Influence of endosperm texture on milling, chemical composition and nutritive quality in maize. Gupta HO, et al. **Plant Foods Hum Nutr** 1989 Sep;39(3):235–43

Monitoring the voluntary fortification of maize meal with riboflavin and nicotinamide. Aggett N, et al. **S Afr Med J** 1989 Oct 7;76(7):342–4

[Studies on chemical analysis of mycotoxin (XX). Chemical analysis of aflatoxins in corn and corn-products] Isohata E, et al. **Eisei Shikenjo Hokoku** 1989;(107):128–32 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Hysteretic nature of phosphoenolpyruvate carboxylase isolated from maize. Jawali N. **Arch Biochem Biophys** 1990 Feb 15;277(1):69–73

The dimeric form of phosphoenolpyruvate carboxylase isolated from maize: physical and kinetic properties. Jawali N. **Arch Biochem Biophys** 1990 Feb 15;277(1):61–8

Regulation of the aggregation state of maize phosphoenolpyruvate carboxylase: evidence from dynamic light-scattering measurements. Wu MX, et al. **Arch Biochem Biophys** 1990 Sep;281(2):324–9

High-level expression in Escherichia coli of the catalytically active flavin domain of corn leaf NADH:nitrate reductase and its comparison to human NADH:cytochrome B5 reductase. Hyde GE, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):1285–91

The role of oligomerization in regulation of maize phosphoenolpyruvate carboxylase activity. Influence of Mg-PEP and malate on the oligomeric equilibrium of PEP carboxylase. Willeford KO, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):778–85

Observation of uridine triphosphate:glucose-1-phosphate uridylyltransferase activity in maize root tips by saturation transfer 31P-NMR. Estimation of cytoplasmic PP. Roberts JK. **Biochim Biophys Acta** 1990 Jan 23;1051(1):29–36

Glyoxalase II from Zea mays: properties and inhibition study of the enzyme purified by use of a new affinity ligand. Norton SJ, et al. **Enzyme** 1989;42(4):189–96

Purification, characterization and immunological properties of 2,3-bisphosphoglycerate-independent phosphoglycerate mutase from maize (Zea mays) seeds. Graña X, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):149–53

Maize phosphoenolpyruvate carboxylase involved in C4 photosynthesis: nucleotide sequence analysis of the 5' flanking region of the gene. Yanagisawa S, et al. **J Biochem (Tokyo)** 1989 Dec;106(6):982–7

GENETICS

Maize transposable elements. Gierl A, et al. **Annu Rev Genet** 1989;23:71–85 (84 ref.)

Comparison of soluble starch synthases and branching enzymes from leaves and kernels of normal and amylose-extender maize. Dang PL, et al. **Biochem Genet** 1989 Oct;27(9–10):521–32

The effect of insertion of the maize transposable element mutator is dependent on genetic background. Ortiz DF, et al. **Biochem Genet** 1990 Feb;28(1–2):9–20

Maize and wheat mitochondrial tRNAPro coding regions have similar sequences but different organizations. Sangaré A, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):96–8

Maize R gene family: tissue-specific helix-loop-helix proteins. Ludwig SR, et al. **Cell** 1990 Sep 7;62(5):849–51 (24 ref.)

Sequence analysis of the tRNA(Tyr) and tRNA(Lys) genes and evidence for the transcription of a chloroplast-like tRNA(Met) in maize mitochondria. Sangaré A, et al. **Curr Genet** 1989 Sep;16(3):195–201

Mutant characters of knotted maize leaves are determined in the innermost tissue layers. Sinha N, et al. **Dev Biol** 1990 Sep;141(1):203–10

Characterization of bz1 mutants isolated from mutator stocks with high and low numbers of Mu1 elements. Hardeman KJ, et al. **Dev Genet** 1989;10(6):460–72

Developmental and genetic aspects of Mutator excision in maize. Levy AA, et al. **Dev Genet** 1989;10(6):520–31

Genetic and molecular characterization of a-mrh-Mrh, a new mutable system of Zea mays. Shepherd NS, et al. **Dev Genet** 1989;10(6):507–19

Mu1-induced mutant alleles of maize exhibit background-dependent changes in expression and RNA processing. Strommer J, et al. **Dev Genet** 1989;10(6):452–9

Tissue-specific effects of maize bronze gene promoter mutations induced by Ds1 insertion and excision. Sullivan TD, et al. **Dev Genet** 1989;10(6):412–24

Differential expression of the maize catalase genes during kernel development: the role of steady-state mRNA levels. Wadsworth GJ, et al. **Dev Genet** 1989;10(4):304–10

Transactivation of anthocyanin biosynthetic genes following transfer of B regulatory genes into maize tissues. Goff SA, et al. **EMBO J** 1990 Aug;9(8):2517–22

En/Spm encoded tnpA protein requires a specific target sequence for suppression. Grant SR, et al. **EMBO J** 1990 Jul;9(7):2029–35

The O2 gene which regulates zein deposition in maize endosperm encodes a protein with structural homologies to transcriptional activators. Hartings H, et al. **EMBO J** 1989 Oct;8(10):2795–801

Molecular cloning and structural analysis of a gene from Zea mays (L.) coding for a putative receptor for the plant hormone auxin. Hesse T, et al. **EMBO J** 1989 Sep; 8(9):2453–61

Expression in yeast of the T-urf13 protein from Texas male-sterile maize mitochondria confers sensitivity to methomyl and to Texas-cytoplasm-specific fungal toxins. Huang J, et al. **EMBO J** 1990 Feb;9(2):339–47

The putative transposase of transposable element Ac from Zea mays L. interacts with subterminal sequences of Ac. Kunze R, et al. **EMBO J** 1989 Nov;8(11):3177–85

Molecular analysis of the C1-I allele from Zea mays: a dominant mutant of the regulatory C1 locus. Paz-Ares J, et al. **EMBO J** 1990 Feb;9(2):315–21

cDNA clones of the auxin-binding protein from corn coleoptiles (Zea mays L.): isolation and characterization by immunological methods. Tillmann U, et al. **EMBO J** 1989 Sep;8(9):2463–7

Structure and expression of a maize phytochrome-encoding gene. Christensen AH, et al. **Gene** 1989 Dec 28;85(2):381–90

Analysis of distal flanking regions of maize 19-kDa zein genes. Quayle TJ, et al. **Gene** 1989 Aug 15;80(2):249–58

The splicing of maize transposable elements from pre-mRNA--a minireview. Wessler SR. **Gene** 1989 Oct 15;82(1):127–33 (44 ref.)

Somatically heritable switches in the DNA modification of Mu transposable elements monitored with a suppressible mutant in maize. Martienssen R, et al. **Genes Dev** 1990 Mar; 4(3):331–43

Near-normal chiasma formation and maintenance in a short distal translocated segment in maize. Maguire MP. **Genetics** 1989;79(2):129–32

The mitochondrial genome organization of a maize fertile cmsT revertant line is generated through recombination between two sets of repeats. Fauron CM, et al. **Genetics** 1990 Feb;124(2):423–8

Sn, a light-dependent and tissue-specific gene of maize: the genetic basis of its instability. Gavazzi G, et al. **Genetics** 1990 May;125(1):193–9

Molecular and genetic characterization of Mu transposable elements in Zea mays: behavior in callus culture and regenerated plants. Planckaert F, et al. **Genetics** 1989 Nov; 123(3):567–78

A tandem duplication causes the Kn1-O allele of Knotted, a dominant morphological mutant of maize. Veit B, et al. **Genetics** 1990 Jul;125(3):623–31

Molecular characterization of a catalase null allele at the Cat3 locus in maize. Wadsworth GJ, et al. **Genetics** 1990 Aug; 125(4):867–72

Phosphoenolpyruvate carboxylase prevalent in maize roots: isolation of a cDNA clone and its use for analyses of the gene and gene expression. Kawamura T, et al. **J Biochem (Tokyo)** 1990 Jan;107(1):165–8

Oleosin KD 18 on the surface of oil bodies in maize. Genomic and cDNA sequences and the deduced protein structure. Qu RD, et al. **J Biol Chem** 1990 Feb 5;265(4):2238–43

Structural analysis of mature and dicistronic transcripts from the 18 S and 5 S ribosomal RNA genes of maize mitochondria. Maloney AP, et al. **J Mol Biol** 1990 Jun 20;213(4):633–49

Strong functional GC pressure in a light-regulated maize gene encoding subunit GAPA of chloroplast glyceraldehyde-3-phosphate dehydrogenase: implications for the evolution of GAPA pseudogenes. Quigley F, et al. **J Mol Evol** 1989 Nov;29(5):412–21

The Mu1 maize transposable element induces tissue-specific aberrant splicing and polyadenylation in two Adh1 mutants. Ortiz DF, et al. **Mol Cell Biol** 1990 May; 10(5):2090–5

Two cDNAs encode two nearly identical Cu/Zn superoxide dismutase proteins in maize. Cannon RE, et al. **Mol Gen Genet** 1989 Oct;219(1–2):1–8

Double Ds elements are involved in specific chromosome breakage. Döring HP, et al. **Mol Gen Genet** 1989 Oct; 219(1–2):299–305

Excision and transposition of two Ds transposons from the bronze mutable 4 derivative 6856 allele of Zea mays L. Dowe MF Jr, et al. **Mol Gen Genet** 1990 May;221(3):475–85

Nucleotide se uence of the maize chloroplast rpo B/C1/C2 operon: con.parison between the derived protein primary structures from various organisms with respect to functional domains. Igloi GL, et al. **Mol Gen Genet** 1990 May;221(3):379–94

Isolation and molecular analysis of the maize P locus. Lechelt C, et al. **Mol Gen Genet** 1989 Oct;219(1–2):225–34

Multiple proteins bind to the P2 promoter region of the zein gene pMS1 of maize. Maier UG, et al. **Mol Gen Genet** 1990 Apr;221(2):164–70

Tagging of a maize gene involved in kernel development by an activated Uq transposable element. Pan YB, et al. **Mol Gen Genet** 1989 Oct;219(1–2):324–7

Formation of composite nucleoprotein complexes near the transcription start of the Shrunken gene from maize. Springer B, et al. **Mol Gen Genet** 1990 Mar;221(1):94–101

Implications for the cis-requirements for Ds transposition based on the sequence of the wxB4 Ds element. Varagona M, et al. **Mol Gen Genet** 1990 Feb;220(3):414–8

Relationship of a putative receptor protein kinase from maize to the S-locus glycoproteins of Brassica. Walker JC, et al. **Nature** 1990 Jun 21;345(6277):743–6

A functional splice site in the 5' untranslated region of a zein gene. Brown JW, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):111–7

Nucleotide sequence and map positions of the duplicated gene for chloroplast ribosomal protein S15 in Zea mays (maize). Fitzky B, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3407

Nucleotide sequence and map positions of the duplicated gene for maize (Zea mays) chloroplast ribosomal protein L2. Kavousi M, et al. **Nucleic Acids Res** 1990 Jul 25; 18(14):4244

The sequence of the zein regulatory gene opaque-2 (O2) of Zea Mays. Maddaloni M, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7532

Nucleotide sequence of a 3.46 kb region of maize chloroplast DNA containing the gene cluster rpoC2-rps2-atpI-atpH. Stahl D, et al. **Nucleic Acids Res** 1990 May 25;18(10):3073–4

Nucleotide sequence of a maize U6 gene. Veretnik S, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3661

DNA methylation of maize transposable elements is correlated with activity. Dennis ES, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;

326(1235):217-29
Isolation and characterization of a cDNA clone for the Cat2 gene in maize and its homology with other catalases. Bethards LA, et al. **Proc Natl Acad Sci U S A** 1990 Sep; 87(17):6927
Sequences near the termini are required for transposition of the maize transposon Ac in transgenic tobacco plants. Coupland G, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9385-8
Organ-specific transcripts of different size and abundance derive from the same pyruvate, orthophosphate dikinase gene in maize. Glackin CA, et al.
Proc Natl Acad Sci U S A 1990 Apr;87(8):3004-8
Maize chloroplast RNA polymerase: the 180-, 120-, and 38-kilodalton polypeptides are encoded in chloroplast genes. Hu J, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(4):1531-5
Genetic mapping and characterization of sorghum and related crops by means of maize DNA probes. Hulbert SH, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4251-5
Mutational analysis of the N terminus of the protein of maize transposable element Ac. Li MG, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(16):6044-8
Dominant mutations causing alterations in acetyl-coenzyme A carboxylase confer tolerance to cyclohexanedione and aryloxyphenoxypropionate herbicides in maize. Parker WB, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7175-9
Expression of the maize Cat3 catalase gene is under the influence of a circadian rhythm. Redinbaugh MG, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6853-7
Pollen and kernel development in maize: analysis of gene expression. Frova C, et al. **Prog Clin Biol Res** 1990; 344:375-98 (48 ref.)
Biochemical analyses of inbreds and their heterotic hybrids in maize. Tsaftaris AS. **Prog Clin Biol Res** 1990;344:639-64 (66 ref.)
Regulation of the timing of transposable element excision during maize development. Levy AA, et al. **Science** 1990 Jun 22;248(4962):1534-7
How maize transposable elements escape negative selection. Gierl A. **Trends Genet** 1990 May;6(5):155-8 (26 ref.)

GROWTH & DEVELOPMENT

The liguleless-1 gene acts tissue specifically in maize leaf development. Becraft PW, et al. **Dev Biol** 1990 Sep; 141(1):220-32

IMMUNOLOGY

The tadidiin (corn pollen) syndrome [letter] Freeman GL. **J Allergy Clin Immunol** 1990 Aug;86(2):275
[When the allergist profession joins the detective profession. (An observation about corn dusts)] Drouet M, et al.
Allerg Immunol (Paris) 1990 Jan;22(1):32-3 **(Fre)**

METABOLISM

IP3 levels and their modulation FY fusicoccin measured by a novel [3H] IP3 binding assay. Aducci P, et al.
Biochem Biophys Res Commun 1990 May 16;168(3):1041-6
In vitro hydroxylation of bentazon by microsomes from naphthalic anhydride-treated corn shoots. McFadden JJ, et al. **Biochem Biophys Res Commun** 1990 Apr 16; 168(1):206-13
In vivo 133Cs-NMR a probe for studying subcellular compartmentation and ion uptake in maize root tissue. Pfeffer PE, et al. **Biochim Biophys Acta** 1990 Sep 1; 1054(2):169-75
Patterns of cellulose synthesis in maize root-tips. A chemical and autoradiographic study. Roberts RM, et al.
Exp Cell Res 1967 Jun;46(3):495-510
Ca2+ pump and Ca2+/H+ antiporter in plasma membrane vesicles isolated by aqueous two-phase partitioning from corn leaves. Kasai M, et al. **J Membr Biol** 1990 Mar; 114(2):133-42
Function of the maize mitochondrial chaperonin hsp60: specific association between hsp60 and newly synthesized F1-ATPase alpha subunits. Prasad TK, et al.
Mol Cell Biol 1990 Aug;10(8):3979-86
The mucilage secreted by roots and its possible role in cell-cell recognition for the adhesion of fungal pathogens to root surfaces of Zea mays L. Northcote DH, et al.
Symp Soc Exp Biol 1989;43:429-47

MICROBIOLOGY

Yeasts and fungi occurring in ensiled whole-crop maize and other ensiled vegetable crops. Middelhoven WJ, et al.
Antonie Van Leeuwenhoek 1990 Apr;57(3):153-8
Inhibition of protein synthesis in rat primary hepatocytes by extracts of Fusarium moniliforme-contaminated corn. Norred WP, et al. **Food Chem Toxicol** 1990 Feb;28(2):89-94
Evaluation of simplified and commercial systems for identification of foodborne yeasts. Deák T, et al.
Int J Food Microbiol 1988 Oct;7(2):135-45
Influence of temperature on growth rate and lag phase of fungi isolated from Argentine corn. González HH, et al.
Int J Food Microbiol 1988 Mar;6(2):179-83
Water activity influence on aflatoxin accumulation in corn. Montani ML, et al. **Int J Food Microbiol** 1988 Jun; 6(4):349-53
Influence of water activity and temperature on the accumulation of zearalenone in corn. Montani ML, et al.
Int J Food Microbiol 1988 Feb;6(1):1-8
Acute aflatoxicosis in feeder pigs, resulting from improper storage of corn. Coppock RW, et al.
J Am Vet Med Assoc 1989 Nov 15;195(10):1380-1
Serotyping and strain identification of maize streak virus isolates. Pinner MS, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1635-40
Fermentation of cereals for reduction of bacterial contamination of weaning foods in Ghana. Mensah PP, et al. **Lancet** 1990 Jul 21;336(8708):140-3
Production of trichothecene and non-trichothecene mycotoxins by Fusarium species isolated from maize in Minnesota. Abbas HK, et al. **Mycopathologia** 1989 Oct; 108(1):55-8
Fusarium species and their mycotoxins in infected corn in Italy. Bottalico A, et al. **Mycopathologia** 1989 Sep; 107(2-3):85-92
[Occurrence of Fusarium species and their mycotoxins in corn silage. 5. Fusarium infestation in corn silage] Baath H, et al. **Arch Tierernahr** 1990 Apr;40(4):397-405 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Microtubule distribution in dv, a maize meiotic mutant defective in the prophase to metaphase transition. Staiger CJ, et al. **Dev Biol** 1990 Mar;138(1):231-42
Root parenchyma cells in water transport. Zholkevich VN, et al. **Physiologie** 1989 Oct-Dec;26(4):355-9
Selective osmotic effect on diffusion of plasma membrane lipids in maize protoplasts. Furtula V, et al.
Proc Natl Acad Sci U S A 1990 Sep;87(17):6532-6

POISONING

Fermented corn flour poisoning in rural areas of China. III. Isolation and identification of main toxin produced by causal microorganisms. Hu WJ, et al.
Biomed Environ Sci 1989 Mar;2(1):65-71
Studies on fermented corn flour poisoning in rural areas of China. I. Epidemiology, Clinical Manifestations, and Pathology. Meng Z, et al. **Biomed Environ Sci** 1988 Jun; 1(1):101-4
Studies on fermented corn flour food poisoning in rural areas of China. II. Isolation and identification of causal microorganisms. Meng Z, et al. **Biomed Environ Sci** 1988 Jun;1(1):105-14

STANDARDS

The effects of varying sprouting periods on the nutritional quality of normal yellow corn (Zea mays). Obizoba IC. **Plant Foods Hum Nutr** 1990 Jan;40(1):73-81

ULTRASTRUCTURE

A simple method for staining nuclei of mature and germinated maize pollen. Chang MT, et al. **Stain Technol** 1989 Jul; 64(4):181-4
Transmission electron microscopic study of maize pachytene chromosome 6. Shen DL, et al. **Stain Technol** 1989 Mar; 64(2):65-73

CORN OIL see under **PLANT OILS**

CORNEA

Festschrift in honour of Claes Dohlman.
Acta Ophthalmol Suppl (Copenh) 1989;192:1-196
Corneal storage [editorial; comment] Casey TA.
Br J Ophthalmol 1989 Oct;73(10):774 Comment on: Br J Ophthalmol 1989 Oct;73(10):781-91.
Hypothermic preservation of corneas in a hyperkalaemic solution (CPTES): I. Short-term storage in the absence of colloid osmotic agents [see comments] Taylor MJ, et al. **Br J Ophthalmol** 1989 Oct;73(10):781-91 Comment in: Br J Ophthalmol 1989 Oct;73(10):774.
Hypothermic preservation of corneas in a hyperkalaemic solution (CPTES): II. Extended storage in the presence of chondroitin sulphate. Taylor MJ, et al.
Br J Ophthalmol 1989 Oct;73(10):792-802
Hydrogen peroxide in anterior segment physiology and contact lens care: a 20th anniversary roundtable. September 17, 1989. Proceedings. **CLAO J** 1990 Jan-Mar;16(1 Suppl):S1-68
Propane-1,2-diol as a potential component of a vitrification solution for corneas. Rich SJ, et al. **Cryobiology** 1990 Feb; 27(1):42-54
Differential binding of P. aeruginosa and S. aureus to corneal epithelium in culture. Panjwani N, et al.
Invest Ophthalmol Vis Sci 1990 Apr;31(4):696-701
Image analysis of the corneal epithelium. Tsubota K, et al.
Ophthalmologica 1990;200(2):68-71
Cornea-lens touch after filtering surgery [letter] Gerber S, et al. **Ophthalmology** 1990 Aug;97(8):962-3
Position statement: Cornea and Contact Lens Section. Farkas B. **Optom Vis Sci** 1990 Jul;67(7):500
[Penetrating keratoplasty with long-term cryopreserved corneas] Wang CF. **Chung Hua Yen Ko Tsa Chih** 1990 Jan; 26(1):17-20 (Eng. Abstr.) **(Chi)**
[Human grafts preserved at +37 degrees C. Initial clinical results] Delbosc B, et al. **Bull Soc Ophtalmol Fr** 1989 Apr; 89(4):585-8, 591 (Eng. Abstr.) **(Fre)**
[Preservative solutions] Dézard X, et al.
Bull Soc Ophtalmol Fr 1989 Jan;89(1):147-8 (4 ref.) **(Fre)**
[Medium-term preservation of human corneas in an enriched culture medium at +37 degrees Centigrade] Piquot X, et al. **J Fr Ophtalmol** 1989;12(5):353-60 (Eng. Abstr.) (Fre)
[The status of the iridocorneal angle after the implantation of anterior chamber intraocular lenses with flexible supporting elements] Sidorov EG, et al. **Vestn Oftalmol** 1989 Sep-Oct;105(5):24-7 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

Brittle cornea syndrome: an heritable connective tissue disorder distinct from Ehlers-Danlos syndrome type VI and fragilitas oculi, with spontaneous perforations of the eye, blue sclerae, red hair, and normal collagen lysyl hydroxylation. Royce PM, et al. **Eur J Pediatr** 1990 Apr; 149(7):465-9
Posterior axial corneal malformation and uveoretinal angiodysgenesis--a neurocristopathy? Mooy CM, et al.
Graefes Arch Clin Exp Ophthalmol 1990;228(1):9-18
Laminin and fibronectin in retinoid-induced keratolenticular dysgenesis. Cook CS, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):751-7
[Cryptophthalmos solum cornese] Alberth B, et al.
Klin Monatsbl Augenheilkd 1990 Apr;196(4):231-2 (Eng. Abstr.) **(Ger)**
[Glaucoma in children] Palacz O. **Klin Oczna** 1989 May; 91(5):138-46 (Eng. Abstr.) **(Pol)**

ANALYSIS

Flow cytometric DNA analysis of corneal epithelium. Burns ER, et al. **Am J Anat** 1990 Mar;187(3):254-60
Correlation of amiodarone dosage, heart rate, QT interval and corneal microdeposits with serum amiodarone and desethylamiodarone concentrations. Pollak PT, et al.
Am J Cardiol 1989 Nov 15;64(18):1138-43
The comparative chemical morphology of the mammalian cornea. Scott JE, et al. **Basic Appl Histochem** 1990; 34(1):35-42
A comparative biochemical and ultrastructural study of proteoglycan-collagen interactions in corneal stroma. Functional and metabolic implications. Scott JE, et al.
Biochem J 1990 Sep 1;270(2):491-7
Trifluorothymidine localization in the rabbit cornea by secondary ion mass spectrometry imaging microanalysis. Legeais JM, et al. **Curr Eye Res** 1989 Sep;8(9):971-3
Neutral glycosphingolipids isolated from porcine corneas. Yue BY, et al. **Curr Eye Res** 1990 Apr;9(4):337-42
Alpha-1 proteinase inhibitor levels in keratoconus. Sawaguchi S, et al. **Exp Eye Res** 1990 May;50(5):549-54
Calibration of measurements in vivo of fluorescein in the cornea. Taarnhøj J, et al. **Exp Eye Res** 1990 Aug; 51(2):113-8
Neoglycoprotein binding distinguishes distinct zones in the epithelia of the porcine eye. Lange W, et al. **J Anat** 1989 Oct;166:243-52
Isoforms of corneal keratan sulfate proteoglycan. Funderburgh JL, et al. **J Biol Chem** 1990 May 15; 265(14):8297-303
Acid hematin pigmentation of the cornea in stillborn fetuses. Scroggs MW, et al. **Pediatr Pathol** 1990;10(3):319-33

ANATOMY & HISTOLOGY

Central corneal thickness in full-term newborns. Autzen T, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):719-20
Corneal topography and elasticity in normal and keratoconic eyes. A methodological study concerning the pathogenesis of keratoconus. Edmund C.
Acta Ophthalmol Suppl (Copenh) 1989;193:1-36
A computer model for the evaluation of the effect of corneal topography on optical performance. Camp JJ, et al.
Am J Ophthalmol 1990 Apr 15;109(4):379-86
Corneal topography of patients with excellent Snellen visual acuity after epikeratophakia for aphakia. Maguire LJ.
Am J Ophthalmol 1990 Feb 15;109(2):162-7
Classification of normal corneal topography based on computer-assisted videokeratography. Bogan SJ, et al.
Arch Ophthalmol 1990 Jul;108(7):945-9
Reproducibility of normal corneal power measurements with a keratometer, photokeratoscope, and video imaging system. Hannush SB, et al. **Arch Ophthalmol** 1990 Apr; 108(4):539-44
Measurement of corneal diameter [letter] Kwok LS.
Br J Ophthalmol 1990 Jan;74(1):63-4
Keratometry in children. Asbell PA, et al. **CLAO J** 1990 Apr-Jun;16(2):99-102
Confocal microscopy of the living eye. Cavanagh HD, et al. **CLAO J** 1990 Jan-Mar;16(1):65-73 (24 ref.)
Accuracy and reproducibility of KeraScanner analysis in PERK corneal topography. PERK Study Group. Rowsey JJ, et al. **Curr Eye Res** 1989 Jul;8(7):661-74
The anatomy of the limbus. Van Buskirk EM. **Eye** 1989;3 (Pt 2):101-8 (27 ref.)
Corneal topography: a new photokeratoscope. Zabel RW, et al. **Eye** 1989;3 (Pt 3):298-301
3-D corneal modeling system. Mammone RJ, et al.
IEEE Trans Biomed Eng 1990 Jan;37(1):66-72
Aspheric cornea after excimer laser surgery [letter; comment] Nordan LT. **J Cataract Refract Surg** 1989 Nov;15(6):718-9
Comment on: J Cataract Refract Surg 1989 Jul;15(4):373-83.
Corneal biometrics of the rhesus monkey (Macaca mulatta). Zurawski CA, et al. **J Med Primatol** 1989;18(6):461-6

Analysis of three meridional keratometric measurements of the anterior cornea. Bennett AG. **Ophthalmic Physiol Opt** 1990 Jan;10(1):93–4

Theoretical principles of optical pachometry. Brennan NA, et al. **Ophthalmic Physiol Opt** 1989 Jul;9(3):247–54

Shadow photogrammetric apparatus for the quantitative evaluation of corneal buttons. Denham D, et al. **Ophthalmic Surg** 1989 Nov;20(11):794–9

The Hirschberg test: correlation with corneal radius and axial length. Eskridge JB, et al. **Optom Vis Sci** 1990 Apr; 67(4):243–7

Variability of ultrasonic pachometry. Gordon A, et al. **Optom Vis Sci** 1990 Mar;67(3):162–5

[Value of qualitative keratometry for the correction of postoperative astigmatism] Metge P, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul;89(6–7):881–4 (Eng. Abstr.) (Fre)

BLOOD SUPPLY

Immunohistochemical detection of bFGF and TNF–alpha in the course of inflammatory angiogenesis in the mouse cornea. Sunderkötter C, et al. **Am J Pathol** 1990 Sep; 137(3):511–5

Results of penetrating keratoplasty in vascularized corneas. Mohan M, et al. **Ann Ophthalmol** 1990 Jun;22(6):235–8

In vivo angiogenic activity of interleukins. BenEzra D, et al. **Arch Ophthalmol** 1990 Apr;108(4):573–6

Promotion of graft survival by photothrombotic occlusion of corneal neovascularization. Corrent G, et al. **Arch Ophthalmol** 1989 Oct;107(10):1501–6

Ultrastructural features of contact lens–induced deep corneal neovascularization and associated stromal leukocytes. Madigan MC, et al. **Cornea** 1990 Apr;9(2):144–51

The pressures in the episcleral veins, Schlemm's canal and the trabecular meshwork in monkeys: effects of changes in intraocular pressure. Mäepea O, et al. **Exp Eye Res** 1989 Oct;49(4):645–63

The circulation of the human limbus. Meyer PA. **Eye** 1989; 3 (Pt 2):121–7 (44 ref.)

Vascular changes in peripheral corneal destructive disease. Watson PG. **Eye** 1990;4 (Pt 1):65–73

The effect of oxygen on corneal neovascularization. Culton M, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1277–81

Vascularization of corneas of hairless mutant mice. Niederkorn JY, et al. **Invest Ophthalmol Vis Sci** 1990 May; 31(5):948–53

15–Hydroxyeicosatetraenoic acid stimulates migration of human retinal microvessel endothelium in vitro and neovascularization in vivo. Graeber JE, et al. **Prostaglandins** 1990 Jun;39(6):665–73

The inhibition of prostaglandin E1–induced corneal neovascularization by steroid eye drops. Chang CT, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jul;88(7):707–11

CYTOLOGY

The cell barrier effect in rabbit corneas kept under eye bank conditions. Medin W, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):694–8

Surgical procedures in the treatment of most severe eye burns. Revival of the artificial epithelium. Reim M, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:47–54

Circaseptan (about 7–day) modulation of circadian rhythm in corneal mitoses of Holtzman rats. Tsai TH, et al. **Anat Rec** 1989 Nov;225(3):181–8

Cultured corneal fibroblasts as a model system for the demonstration of drug–induced mucopolysaccharidosis. Burmester J, et al. **Arch Toxicol** 1990;64(4):291–8

Symmetric and asymmetric cell division in rat corneal epithelium. Lamprecht J. **Cell Tissue Kinet** 1990 May; 23(3):203–16

Comparison of the circadian rhythm in cell proliferation in corneal epithelium of male rats studied under normal and hypobaric (hypoxic) conditions. Kwarecki K, et al. **Chronobiol Int** 1989;6(3):217–22

Spreading of cultured corneal epithelial cells on fibronectin and other extracellular matrices. Nakagawa S, et al. **Cornea** 1990 Apr;9(2):125–30

Basement membrane heterogeneity and variation in corneal epithelial differentiation. Kolega J, et al. **Differentiation** 1989 Oct;42(1):54–63

Low oxygen prevents epithelial overgrowth of corneas in long–term organ culture. Zagórski Z, et al. **Doc Ophthalmol** 1989 Nov;73(3):285–9

The effects of exogenous epinephrine and environmental stress stimuli on the mitotic rates of larval urodele tissues. Chiakulas JJ, et al. **Exp Cell Res** 1966 Jan;41(1):197–205

Control of cellular proliferation in the bovine cornea: an in vitro study. Jacob TJ, et al. **Eye** 1989;3 (Pt 5):618–25

The multipotential cells of the limbus. Thoft RA, et al. **Eye** 1989;3 (Pt 2):109–13 (16 ref.)

Concept and application of limbal stem cells. Tseng SC. **Eye** 1989;3 (Pt 2):141–57 (119 ref.)

Time–lapse videomicroscopic study of in vitro wound closure in rabbit corneal cells. Chan KY, et al. **Invest Ophthalmol Vis Sci** 1989 Dec;30(12):2488–98

Corneal epithelial wound healing in partial limbal deficiency. Chen JJ, et al. **Invest Ophthalmol Vis Sci** 1990 Jul; 31(7):1301–14

Interlamellar adhesive strength in human eyebank corneas. Smolek MK, et al. **Invest Ophthalmol Vis Sci** 1990 Jun; 31(6):1087–95

Proliferation of corneal epithelial and endothelial cells in the trabecular region of human donor corneas in organ culture. Zagórski Z, et al. **Ophthalmic Res** 1990;22(1):51–6

Interferon–gamma, Staphylococcus aureus, and lipopolysaccharide/silica enhance interleukin–1 beta production by human corneal cells. Shams NB, et al. **Reg Immunol** 1989 May–Jun;2(3):136–48

[Aspects and prospects of human corneal epithelium culture] Garcher C, et al. **Bull Soc Ophtalmol Fr** 1990 Jan; 90(1):123–6 (Eng. Abstr.) (Fre)

[Measuring intracellular pH in cultivated corneal epithelial cells] Korbmacher C, et al. **Fortschr Ophthalmol** 1989; 86(4):279–82 (Eng. Abstr.) (Ger)

[Specular microscopy of corneal epithelium] Nakano H. **Nippon Ganka Gakkai Zasshi** 1989 Jul;93(7):775–80 (Eng. Abstr.) (Jpn)

DRUG EFFECTS

Corneal alkali wound healing in the monkey. Chung JH, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):685–93

Cadmium toxicity to the cornea of pregnant rats: electron microscopy and x–ray microanalysis. Yoshizuka M, et al. **Anat Rec** 1990 May;227(1):138–43

Topical nonsteroidal agents and corneal wound healing. Hersh PS, et al. **Arch Ophthalmol** 1990 Apr;108(4):577–83

Effect of topically administered epidermal growth factor on corneal wound strength. Leibowitz HM, et al. **Arch Ophthalmol** 1990 May;108(5):734–7

Hydrogen peroxide damage to human corneal epithelial cells in vitro. Implications for contact lens disinfection systems [see comments] Tripathi BJ, et al. **Arch Ophthalmol** 1989 Oct;107(10):1516–9 Comment in: Arch Ophthalmol 1990 Jul;108(7):913–4.

Inhibition of renal, cardiac and corneal (Na(+)–K+)ATPase by 12(R)–hydroxyeicosatetraenoic acid. Masferrer JL, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1971–4

Effects of topical timolol (0.5%) and betaxolol (0.5%) on corneal sensitivity. Weissman SS, et al. **Br J Ophthalmol** 1990 Jul;74(7):409–12

In vitro cytotoxicity assays. Potential alternatives to the Draize ocular allergy test. Borenfreund E, et al. **Cell Biol Toxicol** 1984 Oct;1(1):55–65

Clinical aspects of topical application of dilute hydrogen peroxide solutions. McNally JJ. **CLAO J** 1990 Jan–Mar; 16(1 Suppl):S46–51; discussion S51–2 (17 ref.)

Effect of hydrogen peroxide on epithelial light–scattering and stromal deturgescence. Wilson G. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S11–4; discussion S14–5

In vitro toxicity of gentamicin to corneal epithelial cells. Alfonso EC, et al. **Cornea** 1990 Jan;9(1):55–61

The collagen shield. A new vehicle for delivery of cyclosporin A to the eye. Reidy JJ, et al. **Cornea** 1990 Jul;9(3):196–9

Tolerance of human corneal endothelium to glycerol. Brunette I, et al. **Cryobiology** 1989 Dec;26(6):513–23

Effects of acidic and basic fibroblast growth factors on the proliferation of rabbit corneal cells. Hecquet C, et al. **Curr Eye Res** 1990 May;9(5):429–33

The toxic effects of pilocarpine gel and drops on rabbit cornea. Liu GS, et al. **Curr Eye Res** 1989 Jul;8(7):637–48

Corneal epithelial wound healing: a tissue culture assay on the effect of antibiotics. Nelson JD, et al. **Curr Eye Res** 1990 Mar;9(3):277–85

Effect of a novel soft steroid on the wound healing of rabbit cornea. Bodor N, et al. **Exp Eye Res** 1990 Feb;50(2):183–7

Cytolysis of corneal epithelial cells by hydrogen peroxide. Hayden BJ, et al. **Exp Eye Res** 1990 Jan;50(1):11–6

Otrivine–antistin–pupil, corneal and conjunctival responses to topical administration. Trew DR, et al. **Eye** 1989;3 (Pt 3):294–7

Effects of sodium lactate on isolated rabbit corneas. Huff JW. **Invest Ophthalmol Vis Sci** 1990 May;31(5):942–7

Layer–by–layer desquamation of corneal epithelium and maturation of tear–facing membranes. Sokol JL, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):294–304

Beta adrenoceptors and regenerating corneal epithelium. Liu GS, et al. **J Ocul Pharmacol** 1990 Summer;6(2):101–12

The effect of sodium hyaluronate on the migration of rabbit corneal epithelium. I. An in vitro study. Miyauchi S, et al. **J Ocul Pharmacol** 1990 Summer;6(2):91–9

Effects of cytochalasin D on actin and vinculin in cultured corneal epithelial cells. Soong HK, et al. **J Ocul Pharmacol** 1990 Summer;6(2):113–21

The effect of timolol, betaxolol, and placebo on corneal sensitivity in healthy volunteers. Vogel R, et al. **J Ocul Pharmacol** 1990 Summer;6(2):85–90

Cyanoacrylates and corneal abrasion. Dean BS, et al. **J Toxicol Clin Toxicol** 1989;27(3):169–72

An in vitro and clinical comparison of corneal storage with chondroitin sulfate corneal storage medium with and without dextran. Lass JH, et al. **Ophthalmology** 1990 Jan; 97(1):96–103

Effect of H2O2 concentration and exposure time on stromal swelling: an epithelial perfusion model. Wilson GS, et al. **Optom Vis Sci** 1990 Apr;67(4):252–5

Secretagogues increase apical membrane conductance of isolated bullfrog corneal epithelium pretreated with loop diuretics. Schoen HF. **Pflugers Arch** 1989 Sep;414(6):713–8

The dangers of steroid eye drops. Gregory P. **Practitioner** 1990 May 8;234(1488):454–5

[Preservative–free timolol eye drops—surface–anesthetic effect and local compatibility] Höh H. **Ophthalmologica** 1990;200(2):89–97 (Eng. Abstr.) (Ger)

[Reaction of Langerhans cells of the corneal epithelium to topically applied lead] Niebrój T, et al. **Klin Oczna** 1989 Feb–Mar;91(2–3):54 (Eng. Abstr.) (Pol)

[Effects of fibronectin instillation on reparative regeneration of the corneal tissue (an experimental study)] Brikman IV, et al. **Vestn Oftalmol** 1990 May–Jun;106(3):41–9 (Eng. Abstr.) (Rus)

EMBRYOLOGY

Heterotypic collagen fibrils and stabilizing collagens. Controlling elements in corneal morphogenesis? Linsenmayer TF, et al. **Ann N Y Acad Sci** 1990;580:143–60 (39 ref.)

Stimulatory effects of basic fibroblast growth factor on DNA synthesis in the human embryonic cornea. Hyldahl L, et al. **Development** 1990 Jul;109(3):605–11

Immunolocalization of type VI collagen in developing and healing rabbit cornea. Cho HI, et al. **Invest Ophthalmol Vis Sci** 1990 Jun;31(6):1096–102

Extracellular matrices of the developing chick retina and cornea. Localization of mRNAs for collagen types II and IX by in situ hybridization. Linsenmayer TF, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1271–6

[Ultracytochemical studies on glycosaminoglycans during early corneal development in Bufo raddei] Yang T, et al. **Shih Yen Sheng Wu Hsueh Pao** 1989 Dec;22(4):393–405 (Eng. Abstr.) (Chi)

ENZYMOLOGY

Characterization of rat cornea aldehyde dehydrogenase. Evces S, et al. **Arch Biochem Biophys** 1989 Nov 1; 274(2):518–24

Calpain and calpastatin in rabbit corneal epithelium. Shearer TR, et al. **Curr Eye Res** 1990 Jan;9(1):39–44

GROWTH & DEVELOPMENT

Corneal growth factors: a new generation of ophthalmic pharmaceuticals. Tripathi BJ, et al. **Cornea** 1990 Jan; 9(1):2–9 (76 ref.)

IMMUNOLOGY

Aging alters the phagocytic capability of inflammatory cells induced into cornea. Hazlett LD, et al. **Curr Eye Res** 1990 Feb;9(2):129–38

Cellular response to inflammation at the limbus. Smolin G. **Eye** 1989;3 (Pt 2):167–71 (18 ref.)

The role of the limbus in corneal allograft rejection. Williams KA, et al. **Eye** 1989;3 (Pt 2):158–66 (60 ref.)

Expression of MHC class II antigens and immunoglobulin M by the corneal epithelial cells in herpetic keratitis. Abu el–Asrar AM, et al. **Int Ophthalmol** 1990 Jul;14(4):233–9

The monoclonal antibody GRC1 produced against human cornea recognizes a common determinant of collagen. Lopez Nevot MA, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):290–3

Lack of T6 induction on human corneal Langerhans cells in vitro. Seto SK, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):102–6

Immunobiology of Langerhans cells on the ocular surface. II. Role of central corneal Langerhans cells in stromal keratitis following experimental HSV–1 infection in mice. McLeish W, et al. **Reg Immunol** 1989 Jul–Aug;2(4):236–43

The immunogenic privilege of corneal allografts. Niederkorn JY, et al. **Reg Immunol** 1989 Mar–Apr;2(2):117–24 (66 ref.)

Phagocytosis of particulate antigens by corneal epithelial cells stimulates interleukin–1 secretion and migration of Langerhans cells into the central cornea. Niederkorn JY, et al. **Reg Immunol** 1989 Mar–Apr;2(2):83–90

Characterization of human IgG subclasses within intraocular compartments. Waldrep JC, et al. **Reg Immunol** 1989 Jan–Feb;2(1):22–32

Antigen–presenting capabilities of cells infiltrating inflamed corneas. Williams KA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):255

[Clinical types of immunologic transplant reactions following perforating keratoplasty] Pleyer U, et al. **Fortschr Ophthalmol** 1990;87(1):14–9 (Eng. Abstr.) (Ger)

[Effects of 5–trifluoromethyl–2'–deoxyuridine (F3TdR) on ultrastructural localization of viral antigens in cultured cells infected with herpes simplex virus (HSV)] Yamane A. **Nippon Ganka Gakkai Zasshi** 1989 Jun;93(6):651–64 (Eng. Abstr.) (Jpn)

INJURIES

The effect of collagen shields on epithelial wound healing in rabbits. Frantz JM, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):524–8

Corneal and iris burns with the laser indirect ophthalmoscope. Irvine WD, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):311–3

A corneal complication of indirect ophthalmic laser delivery systems. Rubinfeld RS, et al. **Am J Ophthalmol** 1990 Aug 15;110(2):206–8

Traumatic intracorneal cyst. Chan MY, et al. **Ann Ophthalmol** 1989 Aug;21(8):303–5

Results of penetrating keratoplasty for the treatment of corneal perforations. Nobe JR, et al. **Arch Ophthalmol** 1990 Jul;108(7):939–41

Bull's–eye corneal lesion resulting from war game injury.

Wellington DP, et al. **Arch Ophthalmol** 1989 Dec; 107(12):1727

Removal of corneal foreign bodies. Reich JA. **Aust Fam Physician** 1990 May;19(5):719–21

Corneal trauma and infection caused by manipulation of the eyelashes after application of mascara [letter] Wilson SE, et al. **Cornea** 1990 Apr;9(2):181–2

In vivo binding of topically applied human bFGF on rabbit corneal epithelial wound. Assouline M, et al. **Growth Factors** 1989;1(3):251–61

Standard models of corneal injury using alkali-immersed filter discs. Ormerod LD, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2148–53

Intraocular silicone prostheses in a dog and a horse with corneal lacerations. Riggs C, et al. **J Am Vet Med Assoc** 1990 Feb 15;196(4):617–9

Topical ocular anesthetics affect epithelial cytoskeletal proteins of wounded cornea. Higbee RG, et al. **J Ocul Pharmacol** 1989 Fall;5(3):241–53

Children benefit from contact lens fitting after corneal laceration repair [letter; comment] LaRoche GR. **Ophthalmology** 1989 Nov;96(11):1679 Comment on: Ophthalmology 1989 Mar;96(3):293–8.

Comparison of limbal and conjunctival autograft transplantation in corneal surface reconastruction in rabbits. Tsai RJ, et al. **Ophthalmology** 1990 Apr;97(4):446–55

Corneal abrasion in infancy as a cause of inconsolable crying. Harkness MJ. **Pediatr Emerg Care** 1989 Dec;5(4):242–4

The evaluation and management of corneal lacerations. Hamill MB, et al. **Retina** 1990;10 Suppl 1:S1–7 (5 ref.)

The unexpected guest: problem of iris reposition. Orlin SE, et al. **Surv Ophthalmol** 1990 Jul–Aug;35(1):59–66

[Corneal abscess caused by Pasteurella following cat scratch injury] Algan M, et al. **Bull Soc Ophtalmol Fr** 1989 Apr; 89(4):581–3 (Eng. Abstr.) **(Fre)**

[Epikeratophakia: results in young patients with unilateral, post-traumatic aphakia using a congelated then dehydrated corneal lenticule (the Mac Donald, Kaufman technic)] Leroux les Jardins S, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul;89(6–7):811–8 (Eng. Abstr.) **(Fre)**

[Experimental studies of the inhibition of collagenase activity in the cornea] Toczolowski J. **Klin Oczna** 1988 Dec; 90(12):405–6 (Eng. Abstr.) **(Pol)**

[The microsurgical treatment of penetrating wounds of the cornea with the use of collagenous materials] Lebekhov PI, et al. **Oftalmol Zh** 1989;(7):409–11 (Eng. Abstr.) **(Rus)**

[Magnetophoresis with the use of ophthalmic drug films in corneal microtrauma] Shif LV, et al. **Oftalmol Zh** 1989; (6):377–8 **(Rus)**

[Non-clostridial anaerobes as a cause of post-traumatic keratitis] Volkov VV, et al. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):61–3 (Eng. Abstr.) **(Rus)**

[Traumatic rupture of the eyeball after radial keratotomy] Zhaboedov GD, et al. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):64–5 (Eng. Abstr.) **(Rus)**

INNERVATION

Peptidergic and catecholaminergic fibers in the human corneal epithelium. An immunohistochemical and electron microscopic study. Ueda S, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:80–90

Hyperplastic precorneal membranes. Extending the spectrum of neurotrophic keratitis. Zabel RW, et al. **Cornea** 1989 Dec;8(4):247–50

Cholinergic innervation of the cornea and iris of the guinea pig. Moustafa FA, et al. **Folia Morphol (Praha)** 1990; 38(1):74–6

Corneal nerve disruption reactivates virus in rabbits latently infected with HSV-1. Beyer CF, et al. **Invest Ophthalmol Vis Sci** 1990 May;31(5):925–32

Incision depth affects the recovery of corneal sensitivity and neural regeneration in the cat. Chang-Ling T, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1533–41

Neuroparalytic keratitis. Umlauf PC. **J Am Optom Assoc** 1990 Mar;61(3):196–9

Simultaneous visualization and electrophysiology of corneal A-delta and C fiber afferents. Tanelian DL, et al. **J Neurosci Methods** 1990 Jun;32(3):213–22

[Local anesthetic effect and subjective tolerance of 0.5% levobunolol in normal eyes] Höh H. **Klin Monatsbl Augenheilkd** 1990 Jul;197(1):20–6 (Eng. Abstr.) **(Ger)**

[Combination hydrophilic contact lenses in keratitis neuroparalytica] Leo M. **Klin Monatsbl Augenheilkd** 1990 Jan;196(1):38–9 (Eng. Abstr.) **(Ger)**

[Corneal sensitivity in workers in contact with petroleum products] Orzel H, et al. **Klin Oczna** 1989 Feb–Mar; 91(2–3):45–6 (Eng. Abstr.) **(Pol)**

METABOLISM

Lectin receptors of normal and dystrophic corneas. Panjwani N, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:171–3 (10 ref.)

Olsalazine sodium stimulates chloride transport across the bullfrog cornea. Odlind B, et al. **Acta Physiol Scand** 1990 May;139(1):241–2

Regulatory mechanisms of chloride transport in corneal epithelium. Candia OA. **Ann N Y Acad Sci** 1989;574:416–27

Lactate transport and glycolytic activity in the freshly isolated rabbit cornea. Chen CH, et al. **Arch Biochem Biophys** 1990 Jan;276(1):70–6

Effect of medium-chain fatty acid salts on penetration of a hydrophilic compound and a macromolecular compound across rabbit corneas. Morimoto K, et al. **Arch Int Pharmacodyn Ther** 1989 Nov–Dec;302:18–26

Permeability of the cornea to topically applied drugs. Benson H. **Arch Ophthalmol** 1974 Apr;91(4):313–27 (87 ref.)

Current thoughts on the maintenance of corneal hydration in vivo. Harris JE. **Arch Ophthalmol** 1967 Aug;78(2):126–32 (31 ref.)

Corneal oxygenation: blink frequency as a variable in rigid contact lens wear. Fink BA, et al. **Br J Ophthalmol** 1990 Mar;74(3):168–71

Extracellular matrix production by embryonic epithelium cultured on type IV collagen. Deposition of a primary corneal stroma-like structure containing large irregular type I fibrils without type II collagen. Ruggiero F, et al. **Cell Differ Dev** 1990 Feb;29(2):95–104

Role of actin filaments and microtubules in the spreading of rabbit corneal epithelial cells on the fibronectin matrix. Fukuda M, et al. **Cornea** 1990 Jan;9(1):28–35

Scintigraphic assessment of an ophthalmic gelling vehicle in man and rabbit. Greaves JL, et al. **Curr Eye Res** 1990 May; 9(5):415–20

Colocalization of fibroblast growth factor binding sites with extracellular matrix components in normal and keratoconus corneas. Morton K, et al. **Curr Eye Res** 1989 Oct; 8(10):975–87

The permeability of the corneal epithelium of Graves' ophthalmopathy as determined by fluorophotometry. Khalil HA, et al. **Doc Ophthalmol** 1989 Nov;73(3):249–54

Interspecies analysis of corneal phosphate metabolites. Greiner JV, et al. **Exp Eye Res** 1989 Oct;49(4):523–9

Reversal of the epinephrine stimulation of Cl- transport in bullfrog cornea by phorbol esters. Reinach PS, et al. **Exp Eye Res** 1989 Nov;49(5):739–49

The fluorescent indicator pyranine is suitable for measuring stromal and cameral pH in vivo. Thomas JV, et al. **Exp Eye Res** 1990 Mar;50(3):241–9

Hard contact lens-induced metabolic changes in rabbit corneas. Tsubota K, et al. **Exp Eye Res** 1989 Nov; 49(5):769–75

Cornea fluid dynamics. II. Evidence for transport of radiolabelled albumin in rabbits by bulk flow. Wilg H. **Exp Eye Res** 1990 Mar;50(3):261–7

Retention of topical liposomal formulations on the cornea. McCalden TA, et al. **Experientia** 1990 Jul 15;46(7):713–5

Lipid deposition at the limbus. Crispin SM. **Eye** 1989;3 (Pt 2):240–50 (56 ref.)

The circulation of fluid at the limbus (flow and diffusion at the limbus). McCulley JP. **Eye** 1989;3 (Pt 2):114–20 (33 ref.)

Metabolic analysis of reepithelializing rabbit cornea using phosphorus-31 nuclear magnetic resonance spectroscopy. Hayashi K, et al. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(1):73–7

Experimental autologous inverse keratoplasty—epithelial, stromal and endothelial interactions. Zagórski Z, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):55–7

Quantification of corneal organ culture migration: central and peripheral epithelium. Cameron JD, et al. **Invest Ophthalmol Vis Sci** 1989 Nov;30(11):2407–13

Alteration of epithelial paracellular permeability during corneal epithelial wound healing. Huang AJ, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):429–35

Expression of the 55-kD/64-kD corneal keratins in ocular surface epithelium. Kurpakus MA, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):448–56

Hyaluronate binding to intact corneas and cultured endothelial cells. Madsen K, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2132–7

Protein-related abnormalities in keratoconus. Panjwani N, et al. **Invest Ophthalmol Vis Sci** 1989 Dec;30(12):2481–7

Neutral glycolipids of migrating and nonmigrating rabbit corneal epithelium in organ and cell culture. Panjwani N, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):689–95

Binding of basic fibroblast growth factor to normal and neovascularized rabbit cornea. Soubrane G, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):323–33

The synthesis and role of integrin in corneal epithelial cells in culture. Trinkaus-Randall V, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):440–7

Diffusion of immunoglobulin G from the vascular compartment into the normal rabbit cornea. Verhagen C, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1519–25

Partial oxygen pressure determines the types of glycosaminoglycans produced by the cornea. Rindi S, et al. **Ital J Biochem** 1989 Jul–Aug;38(4):287A–288A

Proteoglycan biosynthesis by human corneas from patients with types 1 and 2 macular corneal dystrophy. Midura RJ, et al. **J Biol Chem** 1990 Sep 15;265(26):15947–55

Collagen corneal shields enhance penetration of topical prednisolone acetate. Sawusch MR, et al. **J Cataract Refract Surg** 1989 Nov;15(6):625–8

Type V collagen synthesis and deposition by chicken embryo corneal fibroblasts in vitro. McLaughlin JS, et al. **J Cell Sci** 1989 Oct;94 (Pt 2):371–9

Corneal permeability in patients with tonic pupil. A reevaluation of its cholinergic supersensitivity. Utsumi T. **J Clin Neuro Ophthalmol** 1990 Mar;10(1):52–5

Proteoglycan distribution in developing rabbit cornea. Cintron C, et al. **J Histochem Cytochem** 1990 May; 38(5):675–84

Cholesterol biosynthesis by the cornea. Comparison of rates of sterol synthesis with accumulation during early development. Cenedella RJ, et al. **J Lipid Res** 1989 Jul; 30(7):1079–84

The effect of chlorhexidine acetate on the corneal penetration of sorbitol from an arnolol formulation in the albino rabbit. Ashton P, et al. **J Ocul Pharmacol** 1990 Spring;6(1):37–42

Intraocular penetration of CT-112, an aldose reductase inhibitor, following topical instillation. Ohashi Y, et al. **J Ocul Pharmacol** 1989 Winter;5(4):325–8

A corneal perfusion device for estimating ocular bioavailability in vitro. Richman JB, et al. **J Pharm Sci** 1990 Feb;79(2):153–7

Synthesis of prolyl 4-hydroxylase by cultured chicken corneal cells. Aida T, et al. **Nippon Ika Daigaku Zasshi** 1989 Aug;56(4):361–4

Hydrogel lens wettability during overnight wear. Guillon M, et al. **Ophthalmic Physiol Opt** 1989 Oct;9(4):355–9

Immunohistochemical demonstration of tenascin in the normal human limbus with special reference to trabeculectomy. Tervo T, et al. **Ophthalmic Res** 1990; 22(2):128–33

Clearing of bilirubin from donor corneas [letter; comment] Wesley RE. **Ophthalmology** 1990 Jan;97(1):5 Comment on: Ophthalmology 1989 Aug;96(8):1212–4.

Corneal hypoxia and hypercapnia during contact lens wear. Efron N, et al. **Optom Vis Sci** 1990 Jul;67(7):512–21

Influence of palpebral aperture height on tear pump efficiency. Fink BA, et al. **Optom Vis Sci** 1990 Apr; 67(4):287–90

The synthesis and effects of eicosanoids in avascular ocular tissues. Bazan HE. **Prog Clin Biol Res** 1989;312:73–84 (54 ref.)

Circadian variations in the DNA synthesis of the rat corneal epithelium. A study using double labelling with tritiated thymidine. Håskjold E, et al. **Virchows Arch [B]** 1990; 58(3):229–34

[Comparison of tolerance to hydrophilic contact lenses made of Hema (37% H2O) and Hema-Degma (55%, 65% H2O) in the rabbit eye. I. Changes in corneal transparency due to disturbed hydration] Cejková J, et al. **Cesk Oftalmol** 1989 Nov;45(6):401–7 (Eng. Abstr.) **(Cze)**

[The metabolism of organ cultures of cornea in TC 199 with added dextran 500 or hydroxyethyl starch 450] Reim M, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):76–80 (Eng. Abstr.) **(Ger)**

[Corneal crystalline deposits in multiple myeloma] Wakita M, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jun; 93(6):665–75 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Pathogenicity of Acanthamoeba and a Corynebacterium in the rat cornea. Badenoch PR, et al. **Arch Ophthalmol** 1990 Jan;108(1):107–12

The use of concanavalin A to competitively inhibit Pseudomonas aeruginosa adherence to rabbit corneal epithelium. Blaylock WK, et al. **CLAO J** 1990 Jul–Sep; 16(3):223–7

Incidence of HIV antibody-positive eye/cornea donors in hospital versus medical examiner cases. Danneffel MB, et al. **Cornea** 1990 Jul;9(3):271–2

Contact lens wear enhances adherence of Pseudomonas aeruginosa and binding of lectins to the cornea. Klotz SA, et al. **Cornea** 1990 Jul;9(3):266–70

Propionibacterium acnes isolated from explanted intraocular lens in pseudophakic bullous keratopathy. Semel J, et al. **Cornea** 1989 Dec;8(4):259–62

Detection of herpes viral genomes in normal and diseased corneal epithelium. Crouse CA, et al. **Curr Eye Res** 1990 Jun;9(6):569–81

The relationship of corneal Langerhans cells to herpes simplex antigens during dendritic keratitis. Pepose JS. **Curr Eye Res** 1989 Aug;8(8):851–8

Binding of Pseudomonas aeruginosa to neutral glycosphingolipids of rabbit corneal epithelium. Panjwani N, et al. **Infect Immun** 1990 Jan;58(1):114–8

Characterization of Pseudomonas aeruginosa adherence to mouse corneas in organ culture. Singh A, et al. **Infect Immun** 1990 May;58(5):1301–7

Ocular leprosy in nine-banded armadillos following intrastromal inoculation. Malaty R, et al. **Int J Lepr Other Mycobact Dis** 1990 Sep;58(3):554–9

Ocular avirulence of a herpes simplex virus type 1 strain is associated with heightened sensitivity to alpha/beta interferon. Su YH, et al. **J Virol** 1990 May;64(5):2187–92

[Bacterial contamination in corneal preservation: pathogens and their origin] Garweg J, et al. **Fortschr Ophthalmol** 1989; 86(4):287–90 (Eng. Abstr.) **(Ger)**

[The extent of bacterial contamination of keratoplasty donor eyes post mortem] Ritter E, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):70–5 (Eng. Abstr.) **(Ger)**

[Adherence of Pseudomonas aeruginosa to the rabbit corneal epithelium] Tazawa H. **Nippon Ganka Gakkai Zasshi** 1990 Mar;94(3):269–76 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Immunohistochemical localization of collagen types I, II, III, and IV in pterygium tissues. Dake Y, et al. **Acta Histochem (Jena)** 1989;87(1):71–4

The pathogenesis of corneal epithelial defects. Berman M. **Acta Ophthalmol Suppl (Copenh)** 1989;192:55–64 (20 ref.)
Corneal topography of early keratoconus [letter; comment] **Am J Ophthalmol** 1989 Dec 15;108(6):746–8 Comment on: Am J Ophthalmol 1989 Aug 15;108(2):107–12.
Superior corneal thinning with pellucid marginal corneal degeneration. Cameron JA, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):486–7
Granular epithelial keratopathy as an unusual manifestation of Pseudomonas keratitis associated with extended-wear soft contact lenses. Rosenfeld SI, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):17–22
Decreased penetration of anchoring fibrils into the diabetic stroma. A morphometric analysis. Azar DT, et al. **Arch Ophthalmol** 1989 Oct;107(10):1520–3
A new method of obtaining cells from the cornea and conjunctiva for cytologic study [letter] Mader TH, et al. **Arch Ophthalmol** 1990 May;108(5):639
Corneal surface irregularities and episodic pain in a patient with mucolipidosis IV [clinical conference] Newman NJ, et al. **Arch Ophthalmol** 1990 Feb;108(2):251–4
Hudson–Stähli's iron-line of cornea in Eskimos. Norn M. **Arctic Med Res** 1989 Oct;48(4):208–10
Corneal crystals [editorial] Brooks AM. **Aust N Z J Ophthalmol** 1990 May;18(2):121–2
Transient corneal changes associated with the use of gold foil electrodes. Aylward GW, et al. **Br J Ophthalmol** 1989 Dec;73(12):980–4
Complications of prosthetic intraocular lens implantation: a histopathological study [see comments] Garner A. **Br J Ophthalmol** 1989 Dec;73(12):940–5 Comment in: Br J Ophthalmol 1989 Dec;73(12):937–8.
Cutaneous anthrax leading to corneal scarring from cicatricial ectropion. Yorston D, et al. **Br J Ophthalmol** 1989 Oct; 73(10):809–11
Swelling and deswelling of rabbit corneas in response to rigid gas permeable, hydrogel and elastomer contact lens wear. Hideji I, et al. **CLAO J** 1989 Oct–Dec;15(4):290–7
Corneal and conjunctival changes in congenital erythropoietic porphyria. Ueda S, et al. **Cornea** 1989 Dec; 8(4):286–94
Diurnal and long-term variations in corneal thickness in the normal and alloxan-induced diabetic rabbit. Herse PR. **Curr Eye Res** 1990 May;9(5):451–7
Corneal mosaic patterns—morphology and epidemiology. Ansons AM, et al. **Eye** 1989;3 (Pt 6):811–5
Limbal disease in trachoma and other ocular chlamydial infections: risk factors for corneal vascularisation. Dawson CR, et al. **Eye** 1989;3 (Pt 2):204–9
Limbal allergic granulomatosis. McCartney AC. **Eye** 1989; 3 (Pt 2):172–9 (39 ref.)
Effect of incision length, location, and shape on local corneoscleral deformation during cataract surgery. Armeniades CD, et al. **J Cataract Refract Surg** 1990 Jan; 16(1):83–7
Effect of keratometer and axial length measurement errors on primary implant power calculations. McEwan JR, et al. **J Cataract Refract Surg** 1990 Jan;16(1):61–70
Corneal–scleral melt in association with cataract surgery and intraocular lenses: a report of four cases. Mamalis N, et al. **J Cataract Refract Surg** 1990 Jan;16(1):108–15
The effect of radial keratotomy (RK) combined with double Ruiz procedure on the corneal curvature. Kim JW, et al. **Korean J Ophthalmol** 1989 Dec;3(2):55–60
Effect of excimer laser radiant exposure on uniformity of ablated corneal surface. Fantes FE, et al. **Lasers Surg Med** 1989;9(6):533–42
The measurement of the corneal ellipse for the contact lens practitioner. Douthwaite WA, et al. **Ophthalmic Physiol Opt** 1989 Jul;9(3):239–42
Corneal asphericity and refractive error. Sheridan M, et al. **Ophthalmic Physiol Opt** 1989 Jul;9(3):235–8
Amyloidosis of corneal stroma in patients with trachoma. A clinicopathologic study of 62 cases. Hidayat AA, et al. **Ophthalmology** 1989 Aug;96(8):1203–11
Herpes simplex stromal and endothelial keratitis. Granulomatous cell reactions at the level of Descemet's membrane, the stroma, and Bowman's layer. Holbach LM, et al. **Ophthalmology** 1990 Jun;97(6):722–8
Corneal biopsy. Indications, techniques, and a report of a series of 87 cases. Lee P, et al. **Ophthalmology** 1990 Jun; 97(6):718–21
Corneal icterus resulting from stromal bilirubin deposition [see comments] Phinney RB, et al. **Ophthalmology** 1989 Aug;96(8):1212–4 Comment in: Ophthalmology 1990 Jan;97(1):5.
Deep corneal stromal opacities in long-term contact lens wear. Remeijer L, et al. **Ophthalmology** 1990 Mar; 97(3):281–5
[Pathological analysis of 100 cases of severe deep stromal herpetic keratitis] Xu XM. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):346–8 (Eng. Abstr.) **(Chi)**
[Inflammatory mechanisms in corneal ulceration] Zhu ZZ. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):24–5 (Eng. Abstr.) **(Chi)**
[Comparison of tolerance to hydrophilic contact lenses made of Hema (37% H2O) and Hema–Degma (55%, 65% H2O) in the rabbit eye. II. Changes in corneal transparency due profound degenerative processes] Cejková J, et al. **Cesk Oftalmol** 1989 Nov;45(6):408–11 (Eng. Abstr.) **(Cze)**
[Hypertrophic pannus of the cornea] Massin P, et al. **J Fr Ophtalmol** 1989;12(5):395–8 **(Fre)**
[Study of 2 lenses of myopic epikeratoplasty] Saragoussi JJ, et al. **J Fr Ophtalmol** 1989;12(6–7):465–8 **(Fre)**
[Bipolar temperature controlled diathermy of the sclera for controlled refractive change of the cornea] Treumer H, et al. **Fortschr Ophthalmol** 1989;86(6):584–8 (Eng. Abstr.) **(Ger)**
[Biometry of the anterior chamber of the eye in Nd:YAG laser iridectomy] Schrems W, et al. **Klin Monatsbl Augenheilkd** 1990 Mar;196(3):128–31 (Eng. Abstr.) **(Ger)**
[A case of crystalline retinopathy with crystalline deposits in the cornea] Morimoto N, et al. **Nippon Ganka Gakkai Zasshi** 1990 Mar;94(3):321–7 (Eng. Abstr.) **(Jpn)**
[Reepithelialization of keratolens in the wound healing process following epikeratophakia in rabbits] Sahori A, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jul;93(7):747–57 (Eng. Abstr.) **(Jpn)**
[Effects of dalargin on proliferative processes and vertical migration of cells of the corneal epithelium during stress] Timoshin SS, et al. **Biull Eksp Biol Med** 1990 Feb; 109(2):189–91 (Eng. Abstr.) **(Rus)**
[Morphological analysis of corneal disks in epithelial–endothelial dystrophy related to aphakia and artificial lenses] Ziangirova GG, et al. **Vestn Oftalmol** 1990 May–Jun;106(3):39–41 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Blinking and corneal sensitivity. Collins M, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):525–31
Measurement of wettability of the corneal epithelium. II. Contact angle method. Tiffany JM. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):182–7
Measurement of wettability of the corneal epithelium. I. Particle attachment method. Tiffany JM. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):175–81
The optical quality of the peripheral cornea. Miller D, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:165–70
The role of the limbus in ocular surface maintenance and repair. Thoft RA. **Acta Ophthalmol Suppl (Copenh)** 1989; 192:91–4 (21 ref.)
Forskolin-induced HCO3- current across apical membrane of the frog corneal epithelium. Candia OA. **Am J Physiol** 1990 Aug;259(2 Pt 1):C215–23
Touching the cornea enhances pharmacologic dilation of the pupil, mainly in the dark iris. Carlson DW, et al. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 1):994–5
NPPB inhibits the basolateral membrane K+ conductance in the isolated bullfrog cornea. Reinach PS, et al. **Biochim Biophys Acta** 1990 Jul 9;1026(1):13–20
Theoretical basis for an anomalous temperature coefficient in swelling pressure of rabbit corneal stroma. Kwok LS, et al. **Biophys J** 1990 Mar;57(3):657–62
Healing of rabbit corneal alkali wounds in vitro. Chung JH. **Cornea** 1990 Jan;9(1):36–40
Transient synthesis of K6 and K16 keratins in regenerating rabbit corneal epithelium: keratin markers for an alternative pathway of keratinocyte differentiation. Schermer A, et al. **Differentiation** 1989 Dec;42(2):103–10
Light transmission of the cornea in whole human eyes. Beems EM, et al. **Exp Eye Res** 1990 Apr;50(4):393–5
Physiological state of the rabbit cornea following 4 degrees C moist chamber storage. Doughty MJ. **Exp Eye Res** 1989 Nov;49(5):807–27
Cohesive strength of corneal lamellae. Maurice DM, et al. **Exp Eye Res** 1990 Jan;50(1):59–63
Cornea fluid dynamics. I: measurement of hydrostatic and colloid osmotic pressure in rabbits. Wiig H. **Exp Eye Res** 1989 Dec;49(6):1015–30
The role of the limbal cornea in vision. Miller D, et al. **Eye** 1989;3 (Pt 2):128–31
Humidity effects on corneal hydration. Cohen SR, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1282–7
Effects of soft contacts of differing thickness on corneal wound healing in rabbits. Friedlander P, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2138–47
The effect of collagen shields on rabbit corneal reepithelialization after chemical debridement. Robin JB, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1294–300
A new speculum electrode for electroretinography. Lachapelle P, et al. **J Neurosci Methods** 1990 Jun; 32(3):245–9
Geometric optical optimization of the corneal lens of Notonecta glauca. Horváth G. **J Theor Biol** 1989 Aug 9; 139(3):389–404
An analysis of three meridional keratometric measurement of the anterior corneal surface. Royston JM, et al. **Ophthalmic Physiol Opt** 1989 Jul;9(3):322–3
Type VI collagen in healing rabbit corneal wounds. Murata Y, et al. **Ophthalmic Res** 1990;22(3):144–51
The isolated iridescent cornea of the sand goby is photoresponsive. Shand J, et al. **Photochem Photobiol** 1990 Jun;51(6):737–9
Novel cytochrome P450-dependent arachidonic acid metabolites and their ocular effects. Masferrer JL, et al. **Prog Clin Biol Res** 1989;312:85–93
From cornea to retinal image in invertebrate eyes. Nilsson DE. **Trends Neurosci** 1990 Feb;13(2):55–64 (45 ref.)
The spectral transmission of the lens and cornea of the brown trout (Salmo trutta) and goldfish (Carassius auratus)—effect of age and implications for ultraviolet vision. Douglas RH. **Vision Res** 1989;29(7):861–9
The spectral transmission of freshwater teleost ocular media—an interspecific comparison and a guide to potential ultraviolet sensitivity. Douglas RH, et al. **Vision Res** 1989; 29(7):871–9
[An investigation of vital staining of the ocular surface and BUT of the tear film in Chinese] Zhang HC. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):43–6 (Eng. Abstr.) **(Chi)**
[Indentation of the cornea and tonometry. Registration of the T-forces] Stepanik J. **Klin Monatsbl Augenheilkd** 1989 Oct;195(4):239–42 (Eng. Abstr.) **(Ger)**
[Long-term follow-up of wound healing following epikeratophakia in rabbits] Sahori A. **Nippon Ganka Gakkai Zasshi** 1990 Jun;94(6):572–81 (Eng. Abstr.) **(Jpn)**
[Maintenance of corneal transparency] Midelfart A. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2662–5 (Eng. Abstr.) **(Nor)**
[Physical aspects of corneal transparency] Bielski A, et al. **Klin Oczna** 1988;90 Suppl:448–50 (14 ref.) (Eng. Abstr.) **(Pol)**
[Transparency of the cornea and ocular lens] Bielski A, et al. **Klin Oczna** 1988;90 Suppl:451 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

The ocular surface in keratoconjunctivitis sicca. Bron AJ, et al. **Eye** 1989;3 (Pt 4):428–37
Corneal epithelial cell movement in humans. Lemp MA, et al. **Eye** 1989;3 (Pt 4):438–45
Corneal thickness and I.O.P. changes in rhegmatogenous retinal detachment. Azad R, et al. **Indian J Ophthalmol** 1990 Jan–Mar;38(1):4–6
Dose-dependent effects of epidermal growth factor on corneal wound healing. Mathers WD, et al. **Invest Ophthalmol Vis Sci** 1989 Nov;30(11):2403–6
Hypoxic effects on corneal morphology and function. Polse KA, et al. **Invest Ophthalmol Vis Sci** 1990 Aug; 31(8):1542–54
Corneal epithelial barrier function after oxybuprocaine provocation in diabetics. Stolwijk TR, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):436–9
Effect of corneal hydration and intraocular pressure on keratometric power after experimental radial keratotomy. Maloney RK. **Ophthalmology** 1990 Jul;97(7):927–33
Corneal pathophysiology with contact lens wear. Bruce AS, et al. **Surv Ophthalmol** 1990 Jul–Aug;35(1):25–58 (355 ref.)

RADIATION EFFECTS

Effect of excimer laser energy on the growth potential of corneal keratocytes. Gebhardt BM, et al. **Cornea** 1990 Jul; 9(3):205–10
Assessment of corneal wound repair in vitro. Tuft S, et al. **Curr Eye Res** 1989 Jul;8(7):713–9
Characterization of the fluorescence spectra produced by excimer laser irradiation of the cornea. Tuft S, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1512–8
Thermal damage produced by high-irradiance continuous wave CO2 laser cutting of tissue. Schomacker KT, et al. **Lasers Surg Med** 1990;10(1):74–84
Corneal damage in photokeratitis—why is it so painful? Bergmanson JP. **Optom Vis Sci** 1990 Jun;67(6):407–13
Long-term effects of a single dose of ultraviolet-B on albino rabbit cornea—II. Deturgescence and fluid pump assessed in vitro. Doughty MJ, et al. **Photochem Photobiol** 1990 Apr;51(4):439–49
[Various occupational diseases of the eyes caused by ultraviolet radiation] Zlateva V, et al. **Probl Khig** 1989; 14:167–73 (Eng. Abstr.) **(Bul)**
[Sensitivity of animals to CO2 laser radiation] Ushkova IN, et al. **Gig Sanit** 1989 Oct;(10):45–7 (Eng. Abstr.) **(Rus)**

SURGERY

Midazolam and flumazenil in ophthalmology. Gobeaux D, et al. **Acta Anaesthesiol Scand Suppl** 1990;92:35–8
Repair of the corneal epithelial adhesion structures following keratectomy wounds in diabetic rabbits. Azar DT, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:72–9
Use of the argon laser to avoid complications from incomplete removal of corneal sutures with deeply buried knots. Bourne WM, et al. **Am J Ophthalmol** 1990 Sep 15; 110(3):310–1
A refractive and histopathologic study of excimer laser keratectomy in primates. Del Pero RA, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):419–29
Functional blindness in photorefractive keratectomy [letter; comment] [see comments] **Arch Ophthalmol** 1989 Nov; 107(11):1563–5 Comment on: Arch Ophthalmol 1989 May;107(5):641–2. Comment in: Arch Ophthalmol 1990 Mar;108(3):318.
Functional blindness in photorefractive keratectomy [letter; comment] Blodi FC. **Arch Ophthalmol** 1990 Mar;108(3):318 Comment on: Arch Ophthalmol 1989 Nov;107(11):1563–5.
Wound healing after excimer laser keratomileusis (photorefractive keratectomy) in monkeys. Fantes FE, et al. **Arch Ophthalmol** 1990 May;108(5):665–75
Experimental radial thermokeratoplasty in rabbits. Feldman ST, et al. **Arch Ophthalmol** 1990 Jul;108(7):997–1000
Corneal healing following laser refractive keratectomy. Goodman GL, et al. **Arch Ophthalmol** 1989 Dec;

107(12):1799–803
A comparison of en face and tangential wide-area excimer surface ablation in the rabbit. Holme RJ, et al. **Arch Ophthalmol** 1990 Jun;108(6):876–81
Refractive predictability of myopic hydrogel intracorneal lenses in nonhuman primate eyes. McCarey BE, et al. **Arch Ophthalmol** 1990 Sep;108(9):1310–5
One-year refractive results of central photorefractive keratectomy for myopia in the nonhuman primate cornea. McDonald MB, et al. **Arch Ophthalmol** 1990 Jan; 108(1):40–7
Central photorefractive keratectomy for myopia. The blind eye study. McDonald MB, et al. **Arch Ophthalmol** 1990 Jun;108(6):799–808
Immunofluorescence study of corneal wound healing after excimer laser anterior keratectomy in the monkey eye. Malley DS, et al. **Arch Ophthalmol** 1990 Sep;108(9):1316–22
UV exposure of the lens during 193-nm excimer laser corneal surgery [letter] Müller-Stolzenburg NW, et al. **Arch Ophthalmol** 1990 Jul;108(7):915–6
Human excimer laser keratectomy. Short-term histopathology. L'Esperance FA Jr, et al. **Bull N Y Acad Med** 1989 Jun;65(5):557–73
Biocompatibility of human collagen type IV intracorneal implants. Dupont D, et al. **Cornea** 1989 Dec;8(4):251–8
Effects of epikeratoplasty on the host cornea. An experimental study. Nirankari VS, et al. **Cornea** 1990 Jul; 9(3):211–6
Plasmin and plasminogen activator activities in tear fluid during corneal wound healing after anterior keratectomy. van Setten GB, et al. **Curr Eye Res** 1989 Dec;8(12):1293–8
Comparison of the reaction of the cornea to nylon and stainless steel sutures: an animal study. Rijneveld WJ, et al. **Doc Ophthalmol** 1989 Aug;72(3–4):297–307
Computer simulation of arcuate and radial incisions involving the corneoscleral limbus. Hanna KD, et al. **Eye** 1989;3 (Pt 2):227–39
Glare and contrast sensitivity in contact lens corrected aphakia, epikeratophakia and pseudophakia. Harper RA, et al. **Eye** 1989;3 (Pt 5):562–70
Combined extracapsular cataract extraction and trabeculectomy using a separated corneal section. Williamson TH, et al. **Eye** 1989;3 (Pt 5):547–52
Anterior stromal puncture with the Nd:YAG laser. Geggel HS, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1555–9
Bilateral phakic hypermetropic epikeratoplasty for accommodative esotropia. Hiles DA, et al. **J Cataract Refract Surg** 1990 May;16(3):361–6
Astigmatic keratotomy to correct preexisting astigmatism in cataract patients. Maloney WF, et al. **J Cataract Refract Surg** 1990 May;16(3):297–304
The "Thornton ring plus" for keratotomies. Teichmann KD. **J Cataract Refract Surg** 1990 Mar;16(2):272–3
Astigmatic keratotomy: a review of basic concepts with case reports. Thornton SP. **J Cataract Refract Surg** 1990 Jul; 16(4):430–5 (2 ref.)
Advances in treatment of diseases and surgery of cornea and anterior segment of the eye. A personal overview. Polack FM. **J Fla Med Assoc** 1989 Nov;76(11):954–8 (18 ref.)
Radial keratotomy [editorial] **Lancet** 1990 May 12; 335(8698):1131–2
Effect of excimer laser radiant exposure on uniformity of ablated corneal surface. Fantes FE, et al. **Lasers Surg Med** 1989;9(6):533–42
Tangential-radial traction suturing technique for intrascleral foreign material implantation. Bar S, et al. **Ophthalmic Surg** 1989 Sep;20(9):651–4
Long-term follow up of clear cornea trabeculectomy. Fahmy IA, et al. **Ophthalmic Surg** 1990 Apr;21(4):294–5
Anterior stromal puncture for recurrent erosion: further experience and new instrumentation. Rubinfeld RS, et al. **Ophthalmic Surg** 1990 May;21(5):318–26
Scanning electron microscopy of corneal incisions using steel, diamond, and sapphire blades. Van Meter WS, et al. **Ophthalmic Surg** 1990 Jul;21(7):475–80
Evaluation of functional and morphologic parameters of the cornea after epikeratophakia using prelathed, lyophilized tissue. Busin M, et al. **Ophthalmology** 1990 Mar;97(3):330–3
Corneal ablation in rabbits using an infrared (2.9-microns) erbium: YAG laser. Peyman GA, et al. **Ophthalmology** 1989 Aug;96(8):1160–70
Development of a system for excimer laser corneal surgery. Waring GO 3d. **Trans Am Ophthalmol Soc** 1990;87:854–983
Treatment of advanced squamous cell carcinomas involving the equine cornea. Rebhun WC. **Vet Surg** 1990 Jul–Aug; 19(4):297–302
[Quantitative analysis of corneal excisions using argon fluoride excimer laser (193 nanometers)] Aron-Rosa D, et al. **Bull Soc Ophtalmol Fr** 1989 Aug–Sep;89(8–9):1051–5 (Eng. Abstr.) (Fre)
[Wedge resection, corrective treatment of giant corneal astigmatism] Burillon C, et al. **J Fr Ophtalmol** 1989; 12(6–7):447–53 (Eng. Abstr.) (Fre)
[Superficial ablation of the cornea using the excimer laser (193 nm)] Bende T, et al. **Fortschr Ophthalmol** 1989; 86(6):589–91 (Eng. Abstr.) (Ger)
[Development of new fixing mechanisms and forms for the preparation of refractive corneal sections] Böhnke M, et al. **Fortschr Ophthalmol** 1989;86(4):276–8 (Eng. Abstr.) (Ger)
[The ablation behavior of various corneal layers] Kriegerowski M, et al. **Fortschr Ophthalmol** 1990; 87(1):11–3 (Eng. Abstr.) (Ger)
[In vitro studies of refractive corneal surgery using the excimer laser with quartz fiber] Müller-Stolzenburg N, et al. **Fortschr Ophthalmol** 1989;86(6):592–6 (Eng. Abstr.) (Ger)
[Laser surgery of the cornea] Seiler T. **Fortschr Ophthalmol** 1990;87(2):111–4 (11 ref.) (Eng. Abstr.) (Ger)
[Fibrin glue improves wound healing of non-perforating keratotomy] Zagórski Z, et al. **Fortschr Ophthalmol** 1989; 86(6):581–3 (Eng. Abstr.) (Ger)
[Anterior delimiting keratotomy in posttraumatic corneal cicatrices] Gundorov RA, et al. **Vestn Oftalmol** 1989 Sep–Oct;105(5):12–3 (Eng. Abstr.) (Rus)
[A method of closed iridoplasty in transparent crystalline lens] Kariagin VF. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):11–4 (Eng. Abstr.) (Rus)
[Our initial experience with the surgical correction of astigmatism by sectorial keratorrhaphy] Krasnov MM, et al. **Vestn Oftalmol** 1989 Sep–Oct;105(5):3–8 (Eng. Abstr.) (Rus)
[Our experience with reducing incisions after keratoplasty] Nad' Z. **Vestn Oftalmol** 1989 Nov–Dec;105(6):29–31 (Eng. Abstr.) (Rus)

ULTRASTRUCTURE

Stromal degradation in vitamin A-deficient rat cornea. Comparison of epithelial abrasion and stromal incision. Hayashi K, et al. **Cornea** 1990 Jul;9(3):254–65
Anterior stromal micropuncture electron microscopic changes in the rabbit cornea. Judge D, et al. **Cornea** 1990 Apr;9(2):152–60
Ultrastructural features of contact lens-induced deep corneal neovascularization and associated stromal leukocytes. Madigan MC, et al. **Cornea** 1990 Apr;9(2):144–51
Conjunctival pterygia. Mechanism of corneal topographic changes. Oldenburg JB, et al. **Cornea** 1990 Jul;9(3):200–4
Histopathology of human keratorefractive lenticules. Pokorny KS, et al. **Cornea** 1990 Jul;9(3):223–33
Analyses of areas and shapes of cells on the corneal surface of the albino rabbit by scanning electron microscopy. Doughty MJ. **Curr Eye Res** 1990 Apr;9(4):295–306
Macular corneal dystrophy: reduction in both corneal thickness and collagen interfibrillar spacing. Quantock AJ, et al. **Curr Eye Res** 1990 Apr;9(4):393–8
Air-injection of the corneal stroma: a SEM study. Jongebloed WL, et al. **Doc Ophthalmol** 1989 Aug; 72(3–4):349–55
Macular corneal dystrophy: the macromolecular structure of the stroma observed using electron microscopy and synchrotron X-ray diffraction. Meek KM, et al. **Exp Eye Res** 1989 Dec;49(6):941–58
The epithelial basement membrane zone of the limbus. Gipson IK. **Eye** 1989;3 (Pt 2):132–40
Collagen fibrillogenesis in vitro: interaction of types I and V collagen regulates fibril diameter. Birk DE, et al. **J Cell Sci** 1990 Apr;95 (Pt 4):649–57
In vitro confocal imaging of the rabbit cornea. Masters BR, et al. **J Microsc** 1990 May;158 (Pt 2):267–74
Tear film and ocular surface changes in a rabbit model of neurotrophic keratitis. Gilbard JP, et al. **Ophthalmology** 1990 Mar;97(3):308–12
Scheie's syndrome. An ultrastructural analysis of the cornea. Zabel RW, et al. **Ophthalmology** 1989 Nov;96(11):1631–8
Corneal nipple in the subimago and imago of a species of Cloeon (Ephemeroptera: Baetidae), as revealed by scanning electron microscopy. Gupta S, et al. **Vision Res** 1989; 29(8):1037–9
[Ultrastructural observations on the fetal corneal epithelium] Chen RH. **Chung Hua Yen Ko Tsa Chih** 1989 May; 25(3):156–8 (Eng. Abstr.) (Chi)
[Treatment of experimental HSV keratitis with recombinant human interferon (rHuIFN): a clinical and scanning electron microscopic study] Jin XY. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):36–8 (Eng. Abstr.) (Chi)
[Light and electron microscopic observations of experimental keratomycosis] Yi XJ. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):168–70 (Eng. Abstr.) (Chi)
[Penetrating keratoplasty and corneal dystrophy in Scheie's syndrome] Burillon C, et al. **J Fr Ophtalmol** 1989; 12(8–9):561–8 (Eng. Abstr.) (Fre)
[Terrien's disease, apropos of 6 cases. Ultrastructural study] Pouliquen Y, et al. **J Fr Ophtalmol** 1989;12(8–9):503–20 (Eng. Abstr.) (Fre)

CORNEAL DISEASES

Festschrift in honour of Claes Dohlman. **Acta Ophthalmol Suppl (Copenh)** 1989;192:1–196
Syndrome of brittle cornea, blue sclera, and joint hyperextensibility. Zlotogora J, et al. **Am J Med Genet** 1990 Jul;36(3):269–72
Superior limbic keratoconjunctivitis (SLK). Nelson JD. **Eye** 1989;3 (Pt 2):180–9 (24 ref.)
Inherited and developmental corneal disorders. Pernoud FG 3d. **Pediatr Ann** 1990 May;19(5):323, 326–33 (47 ref.)

CHEMICALLY INDUCED

Savlon keratopathy a clinical profile. Khurana AK, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):465–6
Amantadine and corneal deposits. Fraunfelder FT, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):96–7
Toxic endothelial cell destruction of the cornea after routine extracapsular cataract surgery. Breebaart AC, et al. **Arch Ophthalmol** 1990 Aug;108(8):1121–5
Subconjunctival 5-fluorouracil-induced transient striate melanokeratosis [letter] Stank TM, et al. **Arch Ophthalmol** 1990 Sep;108(9):1210
Healing of rabbit corneal alkali wounds in vitro. Chung JH. **Cornea** 1990 Jan;9(1):36–40
Corneal toxicity studies in rabbits and dogs with hydroxyethyl cellulose and benzalkonium chloride. Durand-Cavagna G, et al. **Fundam Appl Toxicol** 1989 Oct; 13(3):500–8
The challenge of mustard-gas keratopathy [letter] English F, et al. **Med J Aust** 1990 Jan 1;152(1):55–6
Topical anesthetic abuse. Rosenwasser GO, et al. **Ophthalmology** 1990 Aug;97(8):967–72
Spitting spider [letter] Wasserman GS. **Vet Hum Toxicol** 1990 Jun;32(3):252
[Keratopathy following vitrectomy with silicone oil injection] Lemmen KD, et al. **Fortschr Ophthalmol** 1989; 86(6):570–3 (Eng. Abstr.) (Ger)
[Amiodarone-induced keratopathy] Reingardene DI, et al. **Oftalmol Zh** 1989;(5):309–12 (18 ref.) (Rus)

COMPLICATIONS

Keratoconus associated with Terrien's marginal degeneration. A clinical and ultrastructural study. Pouliquen Y, et al. **Acta Ophthalmol Suppl (Copenh)** 1989; 192:174–81
Microsporidia infection of the cornea in a man seropositive for human immunodeficiency virus. Lowder CY, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):242–4
Infective conjunctivitis and corneal scarring in three brothers with sex linked hypogammaglobulinaemia (Bruton's disease). Hansel TT, et al. **Br J Ophthalmol** 1990 Feb; 74(2):118–20
Endophthalmitis caused by exogenous nocardial infection in a patient with Sjögren's syndrome. Heathcote JG, et al. **Can J Ophthalmol** 1990 Feb;25(1):29–33
Secondary localized amyloidosis of the cornea associated with tertiary syphilis. Hill JC, et al. **Cornea** 1990 Apr; 9(2):98–101
Corneal arcus as an indicator of hypercholesterolemia. Nishimoto JH, et al. **J Am Optom Assoc** 1990 Jan;61(1):44–9
Keratoconus with acute corneal hydrops. Valella MT. **J Am Optom Assoc** 1989 Aug;60(8):578–80
Corneal ectasia in vernal keratoconjunctivitis. Cameron JA, et al. **Ophthalmology** 1989 Nov;96(11):1615–23
Molteno implantation for secondary glaucomas associated with advanced epithelial ingrowth. Fish LA, et al. **Ophthalmology** 1990 May;97(5):557–61
Epithelial abnormalities in chronic corneal edema: a histopathological study. Eagle RC Jr, et al. **Trans Am Ophthalmol Soc** 1990;87:107–19; discussion 119–24
[The causes of blindness by corneal diseases in 3,499 cases] Feng CM. **Chung Hua Yen Ko Tsa Chih** 1990 May; 26(3):151–3 (Eng. Abstr.) (Chi)
[Prevention of blindness as sequelae of corneal pathology] Malchuk IuF. **Vestn Oftalmol** 1990 May–Jun;106(3):58–60 (Eng. Abstr.) (Rus)

CONGENITAL

Familial congenital cornea guttata with anterior polar cataracts [letter; comment] Nucci P. **Am J Ophthalmol** 1990 Feb 15;109(2):245 Comment on: Am J Ophthalmol 1989 Aug 15;108(2):123–5.
Fibroma of the cornea. Report of a case associated with congenital generalized fibromatosis. Antine BE, et al. **Arch Ophthalmol** 1974 Apr;91(4):278–80
X-linked megalocornea: close linkage to DXS87 and DXS94. Chen JD, et al. **Hum Genet** 1989 Oct;83(3):292–4
Epibulbar complex choristoma involving the bulbar conjunctiva and cornea. Hayasaka S, et al. **J Pediatr Ophthalmol Strabismus** 1989 Sep–Oct;26(5):251–3
Bilateral congenital corneal enlargement. Bergren RL. **Ophthalmic Surg** 1990 May;21(5):370–1

DIAGNOSIS

Infectious crystalline keratopathy. Sutton GL, et al. **Aust N Z J Ophthalmol** 1990 May;18(2):151–3
Spindle cell carcinoma of cornea and conjunctiva with pseudosarcomatous metaplasia. Light microscopic, electron microscopic and immunohistochemical findings in 2 patients. Ni C, et al. **Chin Med J [Engl]** 1989 May; 102(5):387–91
Dellen or pseudodellen [letter; comment] Baum J. **Cornea** 1990 Apr;9(2):182 Comment on: Cornea 1989;8(2):129–30.
Infectious crystalline keratopathy in a neonatal infant. Burnette WC, et al. **Cornea** 1990 Apr;9(2):108–14
Corneal myxoma. Case report and review of the literature. Lo GG, et al. **Cornea** 1990 Apr;9(2):174–8 (38 ref.)
Analysis of fibronectin, plasminogen activators and plasminogen in tear fluid as markers of corneal damage and repair. Barlati S, et al. **Exp Eye Res** 1990 Jul;51(1):1–9
Carcinoma in situ of the cornea. Steinhorst U, et al. **Ophthalmologica** 1990;200(2):107–10
[Fluorescein angiography of the anterior segment of the eye] Bryk E. **Klin Oczna** 1988 Dec;90(12):429–31 (Eng. Abstr.)

(Pol)

DRUG THERAPY

From the National Institutes of Health. Raub W. **JAMA** 1990 Oct 3;264(13):1650

Therapy of corneal erosions and 'dry eye' with Solcoseryl and Vitasic eye drops. Krannig HM, et al. **Ophthalmologica** 1989;199(2–3):100–5

Prospects for epidermal growth factor in the management of corneal disorders. Tripathi RC, et al. **Surv Ophthalmol** 1990 May–Jun;34(6):457–62 (40 ref.)

[Treatment of persistent corneal epithelial disorders with human plasma fibronectin eyedrops] Qu XA. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):21–3 (Eng. Abstr.) (Chi)

[Severe Aspergillus keratomycosis treated with itraconazole per os] Villard C, et al. **J Fr Ophtalmol** 1989;12(4):323–5 (Eng. Abstr.) (Fre)

ENZYMOLOGY

Plasminogen activator activity and plasminogen independent amidolytic activity in tear fluid from healthy persons and patients with anterior segment inflammation. Tözsér J, et al. **Clin Chim Acta** 1989 Aug 31;183(3):323–31

EPIDEMIOLOGY

Hudson–Stähli's iron line in the cornea. Occurrence in 1968 and in 1988. Norn M. **Acta Ophthalmol (Copenh)** 1990 Jun; 68(3):339–40

ETIOLOGY

The pathogenesis of corneal epithelial defects. Berman M. **Acta Ophthalmol Suppl (Copenh)** 1989;192:55–64 (20 ref.)

Keratopathy of the rabbit cornea following complete eyelid closure. Koch JM, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:108–14

Contact lens complications. Turturro MA, et al. **Am J Emerg Med** 1990 May;8(3):228–33 (22 ref.)

Capnocytophaga canimorsus as the cause of a chronic corneal infection. de Smet MD, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):240–2

Persistent corneal defect caused by Listeria monocytogenes. Eiferman RA, et al. **Am J Ophthalmol** 1990 Jan 15; 109(1):97–8

Interface abscess after epikeratoplasty. Hemady RK, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):735–6

Infectious crystalline keratopathy caused by Mycobacterium fortuitum and Pseudomonas aeruginosa. Hu FR. **Am J Ophthalmol** 1990 Jun 15;109(6):738–9

Corneal epithelial defects after smoking crack cocaine. McHenry JG, et al. **Am J Ophthalmol** 1989 Dec 15; 108(6):732

Penetrating keratoplasty in ectodermal dysplasia. Mader TH, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):319–20

Intracorneal ophthalmomyiasis. Perry HD, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):741–2

Unusual mucopolysaccharide disorder with corneal and scleral involvement. Winterbotham CT, et al. **Am J Ophthalmol** 1990 May 15;109(5):544–55

Infections with the therapeutic soft lens. Brown SI, et al. **Arch Ophthalmol** 1974 Apr;91(4):275–7

Epithelialization of the anterior chamber. A complication of prosthokeratoplasty. Ferry AP, et al. **Arch Ophthalmol** 1974 Apr;91(4):281–4

Protoporphyrin IX photosensitization of corneal endothelium. Gottsch JD, et al. **Arch Ophthalmol** 1989 Oct; 107(10):1497–500

Anterior chamber intraocular lenses [letter; comment] Hessburg PC. **Arch Ophthalmol** 1990 Feb;108(2):165–6 Comment on: Arch Ophthalmol 1988 Nov;106(11):1575–8.

Striate melanokeratosis following trabeculectomy with 5-fluorouracil [letter] Peterson MR, et al. **Arch Ophthalmol** 1990 Sep;108(9):1216–7

Conjunctival flap–corneal shell–ptosis procedure. Treatment of blepharoptosis in severe keratopathy. Putterman AM. **Arch Ophthalmol** 1989 Dec;107(12):1816–8

Corneal perforation in patients with vitamin A deficiency in the United States. Suan EP, et al. **Arch Ophthalmol** 1990 Mar;108(3):350–3

Corneal changes associated with chronic UV irradiation. Taylor HR, et al. **Arch Ophthalmol** 1989 Oct; 107(10):1481–4

Climatic droplet keratopathy and pterygium. Taylor HR. **Aust J Ophthalmol** 1981 Aug;9(3):199–206

Post–keratoplasty epithelial cyst: an unusual complication. Fong LP, et al. **Aust N Z J Ophthalmol** 1990 May; 18(2):226–7

An unusual case of crystalline keratopathy. Pararajasegaram P, et al. **Aust N Z J Ophthalmol** 1990 May;18(2):155–7

Corneal amyloidosis [letter; comment] Bell JA. **Br J Ophthalmol** 1990 May;74(5):320 Comment on: Br J Ophthalmol 1989 Aug;73(8):674–6.

Infectious crystalline keratopathy. Townshend L, et al. **Can J Ophthalmol** 1989 Dec;24(7):325–6

Corneal toxic changes after cataract extraction. Zabel RW, et al. **Can J Ophthalmol** 1989 Dec;24(7):311–6

Extended wear lenses [editorial] Cohen EJ. **CLAO J** 1989 Oct–Dec;15(4):238

Rigid contact lens decentration: a risk factor for corneal warpage. Wilson SE, et al. **CLAO J** 1990 Jul–Sep; 16(3):177–82

A review of relative risks associated with four types of contact lenses. Bailey CS. **Cornea** 1990;9 Suppl 1:S39–61; discussion S62–3

Atypical corneal manifestations of multiple myeloma. A clinical, histopathologic, and immunohistochemical report. Beebe WE, et al. **Cornea** 1989 Dec;8(4):274–80

Stromal degradation in vitamin A–deficient rat cornea. Comparison of epithelial abrasion and stromal incision. Hayashi K, et al. **Cornea** 1990 Jul;9(3):254–65

Infectious crystalline keratopathy associated with topical anesthetic abuse. Kintner JC, et al. **Cornea** 1990 Jan; 9(1):77–80

Corneal steepening after epikeratoplasty. Nirankari VS. **Cornea** 1989 Dec;8(4):240–6

Terrien's marginal degeneration with corneal cyst. Romanchuk KG, et al. **Cornea** 1990 Jan;9(1):86–7

Unusual presentation of paraproteinemic corneal infiltrates. Spiegel P, et al. **Cornea** 1990 Jan;9(1):81–5

Specular and scanning electron microscopy in diffuse silicone keratopathy. Filipec M, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(5):417–20

Recurrent Salzmann's corneal degeneration. Severin M, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(2):101–4

Specular microscopy of unilateral hard contact lens wearers. Dada VK, et al. **Indian J Ophthalmol** 1989 Jan–Mar; 37(1):17–9

Contact lens induced severe epithelial disruption. A case report. Pinckers A, et al. **Int Ophthalmol** 1989 May; 13(3):229–32

Contact lens–induced edema in vitro. Ion transport and metabolic considerations. Huff JW. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1288–93

Contact lens compliance [editorial] Bartlett JD. **J Am Optom Assoc** 1990 Mar;61(3):159–60

Contact lens fusion to corneas by welding arcs: a hoax revisited [editorial] Giroux AR, et al. **J Am Optom Assoc** 1990 Mar;61(3):162–4

Fellow eyes in aphakic and pseudophakic bullous keratopathy. Insler MS, et al. **J Cataract Refract Surg** 1990 Jan;16(1):92–5

Congenital corneal anesthesia: problems in diagnosis. Shorey P, et al. **J Pediatr Ophthalmol Strabismus** 1990 May–Jun; 27(3):143–7

From the Centers for Disease Control. Pseudomonas aeruginosa corneal infection related to mascara applicator trauma—Georgia. **JAMA** 1990 Mar 23–30;263(12):1616

"Cold" corneal abscess in psoriasis: a case report. Avisar R, et al. **Metab Pediatr Syst Ophthalmol** 1989;12(4):103–4

Maternal and paternal alcohol consumption increase offspring susceptibility to Pseudomonas aeruginosa ocular infection. Hazlett LD, et al. **Ophthalmic Res** 1989;21(5):381–7

Management of detachment of Descemet's membrane caused by injection of hyaluronic acid. Ostberg A, et al. **Ophthalmic Surg** 1989 Dec;20(12):885–6

Reversible corneal keratinization following trabeculectomy and treatment with 5–fluorouracil. Phelan MJ, et al. **Ophthalmic Surg** 1990 Apr;21(4):296–8

Management of cornea–lens touch after filtering surgery for glaucoma. Fourman S. **Ophthalmology** 1990 Apr; 97(4):424–8

Topographic changes in contact lens–induced corneal warpage. Wilson SE, et al. **Ophthalmology** 1990 Jun; 97(6):734–44

Scheie's syndrome. An ultrastructural analysis of the cornea. Zabel RW, et al. **Ophthalmology** 1989 Nov;96(11):1631–8

The Glenn A. Fry Award lecture 1988: the ocular response to contact lens wear. Holden BA. **Optom Vis Sci** 1989 Nov; 66(11):717–33 (155 ref.)

Corneal endothelial response to refitting polymethyl methacrylate wearers with rigid gas–permeable lenses. McLaughlin R, et al. **Optom Vis Sci** 1990 May;67(5):346–51

Corneal endothelial polymegethism: a neural crest defect. Nucci P. **Optom Vis Sci** 1990 May;67(5):380–1

Corneal thinning as the sole manifestation of active undifferentiated connective tissue disease. Colon LE, et al. **South Med J** 1990 Jan;83(1):48–50

An analysis of corneal endothelial and graft survival in pseudophakic bullous keratopathy. Sugar A. **Trans Am Ophthalmol Soc** 1990;87:762–801

[The relationship between corneal dellen and tearfilm breakup time] Mai GH, et al. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):86–8 (Eng. Abstr.) (Chi)

[Corneal abscess caused by Pasteurella following cat scratch injury] Algan M, et al. **Bull Soc Ophtalmol Fr** 1989 Apr; 89(4):581–3 (Eng. Abstr.) (Fre)

[Cornea and anterior chamber implant with flexible closed haptics] Pon A, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul; 89(6–7):897–901 (Eng. Abstr.) (Fre)

[Penetrating keratoplasty and corneal dystrophy in Scheie's syndrome] Burillon C, et al. **J Fr Ophtalmol** 1989; 12(8–9):561–8 (Eng. Abstr.) (Fre)

[Complications of Stableflex anterior chamber intraocular lens implants. Apropos of 150 cases] Boureau C, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):86–8 (Eng. Abstr.) (Fre)

[Contact lenses and their problems] Epstein D. **Fortschr Ophthalmol** 1990;87(1):90–4 (20 ref.) (Eng. Abstr.) (Ger)

GENETICS

Mapping X–linked ophthalmic diseases. IV. Provisional assignment of the locus for X–linked congenital cataracts and microcornea (the Nance–Horan syndrome) to Xp22.2–p22.3. Lewis RA, et al. **Ophthalmology** 1990 Jan; 97(1):110–20; discussion 120–1

Mapping the gene for X–linked cataracts and microcornea with facial, dental, and skeletal features to Xp22: an appraisal of the Nance–Horan syndrome. Lewis RA. **Trans Am Ophthalmol Soc** 1990;87:658–728

IMMUNOLOGY

Sporadic diffuse corneal endotheliitis. Hakin KN, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):509–15

Immunofluorescent characteristics of the diabetic cornea. Weiss JS, et al. **Cornea** 1990 Apr;9(2):131–8

Altered antigenicity of keratan sulfate proteoglycan in selected corneal diseases. Funderburgh JL, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):419–28

MICROBIOLOGY

Extraneuronal herpetic latency: animal and human corneal studies. Pavan–Langston D, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:135–41

PARASITOLOGY

Corneal microsporidiosis. A case report including ultrastructural observations. Davis RM, et al. **Ophthalmology** 1990 Jul;97(7):953–7

PATHOLOGY

Fibrous histiocytoma of limbus. Schellini SA, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):601–4

Surface cell morphology of the anesthetic human cornea: a color specular microscopic study. Lemp MA, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:102–7

Flow cytometric DNA analysis of corneal epithelium. Burns ER, et al. **Am J Anat** 1990 Mar;187(3):254–60

A structurally aberrant immunoglobulin paraprotein in a patient with multiple myeloma and corneal crystal deposits. Green ED, et al. **Am J Med** 1990 Mar;88(3):304–11

Superior corneal thinning with pellucid marginal corneal degeneration. Cameron JA, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):486–7

Decreased penetration of anchoring fibrils into the diabetic stroma. A morphometric analysis. Azar DT, et al. **Arch Ophthalmol** 1989 Oct;107(10):1520–3

A comparison of the clinical variations of the iridocorneal endothelial syndrome. Wilson MC, et al. **Arch Ophthalmol** 1989 Oct;107(10):1465–8

Corneal crystals [editorial] Brooks AM. **Aust N Z J Ophthalmol** 1990 May;18(2):121–2

Characterization of the spheroliths present in primary atypical bandkeratopathy using laser microprobe mass analysis. Vandeputte DF, et al. **Biomed Environ Mass Spectrom** 1989 Sep;18(9):753–6

Corneal changes in Tay–Sachs disease. Ghosh M, et al. **Can J Ophthalmol** 1990 Jun;25(4):190–2 (10 ref.)

Abnormal extracellular matrix in corneas with pseudophakic bullous keratopathy. Kenney MC, et al. **Cornea** 1990 Apr; 9(2):115–21

Corneal mosaic patterns—morphology and epidemiology. Ansons AM, et al. **Eye** 1989;3 (Pt 6):811–5

The pathology of tumours at the limbus. Garner A. **Eye** 1989; 3 (Pt 2):210–7 (9 ref.)

Terrien's disease: clinical and ultrastructural studies, five case reports. Pouliquen Y, et al. **Eye** 1989;3 (Pt 6):791–802

Vascular changes in peripheral corneal destructive disease. Watson PG. **Eye** 1990;4 (Pt 1):65–73

Reticulohistiocytoma of the limbus and cornea. A clinicopathologic study of two cases. Allaire GS, et al. **Ophthalmology** 1990 Aug;97(8):1018–22

Corneal biopsy. Indications, techniques, and a report of a series of 87 cases. Lee P, et al. **Ophthalmology** 1990 Jun; 97(6):718–21

[Terrien's disease, apropos of 6 cases. Ultrastructural study] Pouliquen Y, et al. **J Fr Ophtalmol** 1989;12(8–9):503–20 (Eng. Abstr.) (Fre)

[Incidence and function of Langerhans cells in various corneal diseases] Philipp W, et al. **Fortschr Ophthalmol** 1990;87(2):124–7 (Eng. Abstr.) (Ger)

[Morphological analysis of corneal disks in epithelial–endothelial dystrophy related to aphakia and artificial lenses] Ziangirova GG, et al. **Vestn Oftalmol** 1990 May–Jun;106(3):39–41 (Eng. Abstr.) (Rus)

[Terrien's corneal dystrophy] Gerinec A, et al. **Cesk Oftalmol** 1989 Jul;45(4):261–9 (Eng. Abstr.) (Slo)

PHYSIOPATHOLOGY

Optical pachometry in the measurement of anterior corneal disease: an evaluative tool for phototherapeutic keratectomy [letter] [published erratum appears in Arch Ophthalmol 1990 Feb;108(2):188] Stark WJ, et al. **Arch Ophthalmol** 1990 Jan;108(1):12–3

PREVENTION & CONTROL

A randomized placebo–controlled trial of cysteamine eye drops in nephropathic cystinosis. Kaiser–Kupfer MI, et al. **Arch Ophthalmol** 1990 May;108(5):689–93

RADIOTHERAPY

[Optimization of methodology and extension of indications for beta therapy of neoplasms of the eyelids, conjunctiva and cornea] Fokin VP, et al. **Oftalmol Zh** 1989;(4):209–13 (Eng. Abstr.) **(Rus)**

REHABILITATION

A gas-permeable scleral contact lens for visual rehabilitation. Schein OD, et al. **Am J Ophthalmol** 1990 Mar 15; 109(3):318–22

SURGERY

Long-term survival of large diameter penetrating keratoplasties for keratoconus and pellucid marginal degeneration. Speaker MG, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:17–9

Neodymium:YAG laser lysis of iridocorneal adhesions in mesodermal dysgenesis. Chang JS Jr, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):598–600

Indications for and outcomes of repeat penetrating keratoplasty. Rapuano CJ, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):689–95

The results of penetrating keratoplasty for pellucid marginal corneal degeneration. Varley GA, et al. **Am J Ophthalmol** 1990 Aug 15;110(2):149–52

Traumatic intracorneal cyst. Chan MY, et al. **Ann Ophthalmol** 1989 Aug;21(8):303–5

Unilateral corneal intraepithelial neoplasia: management of the recurrent lesion. Prezyna AP, et al. **Ann Ophthalmol** 1990 Mar;22(3):103–5

Endophthalmitis following Ruiz procedure. Case report. Manka RL, et al. **Arch Ophthalmol** 1990 Jan;108(1):21

Indications for keratoepitheliоplasty. Turgeon PW, et al. **Arch Ophthalmol** 1990 Feb;108(2):233–6

Clearing of corneal argyrosis by YAG laser. Geyer O, et al. **Br J Ophthalmol** 1989 Dec;73(12):1009–10

Results of penetrating keratoplasty for pseudophakic bullous keratopathy with the exchange of an intraocular lens. van der Schaft TL, et al. **Br J Ophthalmol** 1989 Sep;73(9):704–8

Propionibacterium acnes isolated from explanted intraocular lens in pseudophakic bullous keratopathy. Semel J, et al. **Cornea** 1989 Dec;8(4):259–62

Salzmann's nodular degeneration. Wood TO. **Cornea** 1990 Jan;9(1):17–22

Modified triple procedure using a temporary keratoprosthesis for closed-system, small-incision cataract surgery. Menapace R, et al. **J Cataract Refract Surg** 1990 Mar; 16(2):230–4

Natural history of cystoid macular edema in pseudophakic bullous keratopathy. Price FW Jr, et al. **J Cataract Refract Surg** 1990 Mar;16(2):163–9

Transformation of corneal epithelial cyst into anterior chamber implantation cyst and scleral cyst: a rare occurrence. Avni I, et al. **J Pediatr Ophthalmol Strabismus** 1989 Nov–Dec; 26(6):303–6

Peripheral corneal thinning [letter] Cannava PE. **Ophthalmic Surg** 1990 Jul;21(7):529–30

Changing indications for penetrating keratoplasty. Kervick GN, et al. **Ophthalmic Surg** 1990 Mar;21(3):227

Anterior stromal puncture for recurrent erosion: further experience and new instrumentation. Rubinfeld RS, et al. **Ophthalmic Surg** 1990 May;21(5):318–26

Penetrating keratoplasty in infants and children. Cowden JW. **Ophthalmology** 1990 Mar;97(3):324–8; discussion 328–9

Penetrating keratoplasty for pseudophakic bullous keratopathy associated with closed-loop anterior chamber intraocular lenses. Kornmehl EW, et al. **Ophthalmology** 1990 Apr;97(4):407–12; discussion 413–4

A prospective study on the implantation of anterior chamber intraocular lenses during keratoplasty for pseudophakic and aphakic bullous keratopathy. Zaidman GW, et al. **Ophthalmology** 1990 Jun;97(6):757–62

[Combined penetrating keratoplasty for the treatment of bullous keratopathy] Wu JA. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):92–4 (Eng. Abstr.) **(Chi)**

[Clinical use of orbital implant in autogenous sclera] Yu CT. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):146–7 (Eng. Abstr.) **(Chi)**

[Rotational corneal auto-grafting] Zhu ZZ. **Chung Hua Yen Ko Tsa Chih** 1989 Jul;25(4):212–3 (Eng. Abstr.) **(Chi)**

[Padded lamellar keratoplasty for the treatment of corneal perforation] Zhu ZZ. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):89–91 (Eng. Abstr.) **(Chi)**

[Corneal perforation: a new solution...] Legeais JM, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1123–5 (Eng. Abstr.) **(Fre)**

[Penetrating keratoplasty using the Hanna trephine. Anatomic and functional results] Rouland JF, et al. **Bull Soc Ophtalmol Fr** 1989 Dec;89(12):1477–80 (Eng. Abstr.) **(Fre)**

[Corneal transplantation] Waubke TN. **Fortschr Med** 1990 May 30;108(16):314–8 (11 ref.) (Eng. Abstr.) **(Ger)**

[Superficial ablation of the cornea using the excimer laser (193 nm)] Bende T, et al. **Fortschr Ophthalmol** 1989; 86(6):589–91 (Eng. Abstr.) **(Ger)**

[Systemic cyclosporin A therapy in high risk keratoplasty] Bialasiewicz AA, et al. **Fortschr Ophthalmol** 1989; 86(6):574–80 (Eng. Abstr.) **(Ger)**

[Treatment of corneal and scleral diseases with the excimer laser. A preliminary report of experiences] Dausch D, et al. **Fortschr Ophthalmol** 1990;87(2):115–20 (Eng. Abstr.) **(Ger)**

[Clinical types of immunologic transplant reactions following perforating keratoplasty] Pleyer U, et al. **Fortschr Ophthalmol** 1990;87(1):14–9 (Eng. Abstr.) **(Ger)**

[Non-freeze epikeratoplasty in recurrent pterygium] Radda TM, et al. **Fortschr Ophthalmol** 1989;86(6):597–9 (Eng. Abstr.) **(Ger)**

["Early" immunologic transplant reactions following perforating keratoplasty. A prospective clinical study] Schönherr U, et al. **Fortschr Ophthalmol** 1990;87(2):121–3 (Eng. Abstr.) **(Ger)**

[Keratoplasty in private practice] Witmer R. **Klin Monatsbl Augenheilkd** 1990 May;196(5):304–6 (Eng. Abstr.) **(Ger)**

THERAPY

Results of penetrating keratoplasty for the treatment of corneal perforations. Nobe JR, et al. **Arch Ophthalmol** 1990 Jul;108(7):939–41

Recurrent corneal erosion. Waltman SR. **Arch Ophthalmol** 1989 Oct;107(10):1436

Porcine collagen corneal shield treatment of persistent epithelial defects following penetrating keratoplasty. Groden LR, et al. **CLAO J** 1990 Apr–Jun;16(2):95–7

Therapeutic contact lenses. Hayworth NA, et al. **CLAO J** 1990 Apr–Jun;16(2):137–42 (43 ref.)

The effect of collagen shields on rabbit corneal reepithelialization after chemical debridement. Robin JB, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1294–300

Advances in treatment of diseases and surgery of cornea and anterior segment of the eye. A personal overview. Polack FM. **J Fla Med Assoc** 1989 Nov;76(11):954–8 (18 ref.)

Cyanoacrylates and corneal abrasion. Dean BS, et al. **J Toxicol Clin Toxicol** 1989;27(3):169–72

Temporary tarsorraphy with cyanoacrylate adhesive for seventh-nerve palsy [letter] Diamond JP. **Lancet** 1990 Apr 28;335(8696):1039

The bandage lens in bullous keratopathy. Andrew NC, et al. **Ophthalmic Physiol Opt** 1989 Jan;9(1):66–8

Corneal spatula for sterile insertion of collagen corneal shield. Hawk TP, et al. **Ophthalmic Surg** 1990 Mar;21(3):162

Children benefit from contact lens fitting after corneal laceration repair [letter; comment] LaRoche GR. **Ophthalmology** 1989 Nov;96(11):1679 Comment on: Ophthalmology 1989 Mar;96(3):293–8.

Therapeutic contact lenses. Smiddy WE, et al. **Ophthalmology** 1990 Mar;97(3):291–5

VETERINARY

Treatment of advanced squamous cell carcinomas involving the equine cornea. Rebhun WC. **Vet Surg** 1990 Jul–Aug; 19(4):297–302

[Corneal dermoids and double malformation of the nostrils in a bull] Neophytou C. **Berl Munch Tierarztl Wochenschr** 1989 Dec 1;102(12):421–2 (Eng. Abstr.) **(Ger)**

CORNEAL DYSTROPHIES, HEREDITARY

[Schnyder crystalline dystrophy] Wakita M, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jun;93(6):676–81 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Keratoconus and lattice and granular corneal dystrophies in the same eye. Smith SG, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):608–10

Juxtapapillary choroidal neovascular membrane in a patient with Paget's disease and lattice corneal dystrophy. Boehme JD, et al. **J Am Optom Assoc** 1989 Aug;60(8):612–6

Epithelial abnormalities in chronic corneal edema: a histopathological study. Eagle RC Jr, et al. **Trans Am Ophthalmol Soc** 1990;87:107–19; discussion 119–24

[Association of a lattice dystrophy and keratoconus: anatomo-clinical study apropos of a case] Hoang-Xuan T, et al. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):35–8 **(Fre)**

DIAGNOSIS

Granular corneal dystrophy Groenouw type I (GrI) and Reis-Bücklers' corneal dystrophy (R-B). One entity? Møller HU. **Acta Ophthalmol (Copenh)** 1989 Dec; 67(6):678–84 (49 ref.)

Macular dystrophy of the cornea. Morgan G. **Br J Ophthalmol** 1966 Feb;50(2):57–67

[Differential diagnosis of corneal dystrophies of the Groenouw I, Reis-Bückler and Thiel-Behnke type] Weidle EG. **Fortschr Ophthalmol** 1989;86(4):265–71 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Granular corneal dystrophy Groenouw type I. 115 Danish patients. An epidemiological and genetic population study. Møller HU. **Acta Ophthalmol (Copenh)** 1990 Jun; 68(3):297–303

GENETICS

Inter-familial variability and intra-familial similarities of granular corneal dystrophy Groenouw type I with respect to biomicroscopical appearance and symptomatology. Møller HU. **Acta Ophthalmol (Copenh)** 1989 Dec; 67(6):669–77

Granular corneal dystrophy Groenouw type I. A report of a probable homozygous patient. Møller HU, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):97–101

Linkage relations of the locus for granular corneal dystrophy Groenouw type I with 35 polymorphic systems. Møller HU, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):721–3

Anterior mesenchymal dysgenesis of the eye. Congenital hereditary endothelial dystrophy and congenital glaucoma. Pedersen OO, et al. **Acta Ophthalmol (Copenh)** 1989 Aug; 67(4):470–6

Keratoconus and Fuchs' corneal endothelial dystrophy in a patient and her family. Lipman RM, et al. **Arch Ophthalmol** 1990 Jul;108(7):993–4

Pseudoinflammatory fundus dystrophy: a follow-up study. Eriksson AW, et al. **Clin Genet** 1990 Jul;38(1):21–32

Adult vitelliform macular dystrophy. Brecher R, et al. **Eye** 1990;4 (Pt 1):210–5

Linkage analysis in granular corneal dystrophy (Groenouw I), Schnyder's crystalline corneal dystrophy, and Reis-Bücklers' corneal dystrophy. Kömpf J, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(6):538–40

[Hereditary juvenile dystrophy of the macula in a large family from Epirus] Kitsos G, et al. **J Fr Ophtalmol** 1989; 12(10):669–71 (Eng. Abstr.) **(Fre)**

[Heredity of granular corneal dystrophy (Groenouw I)] Cuendet JF, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):265–6 (Eng. Abstr.) **(Fre)**

[Pseudokeratoconus in trisomy 21 and posterior polymorphous corneal dystrophy] Lang GK, et al. **Klin Monatsbl Augenheilkd** 1989 Aug;195(2):95–9 (Eng. Abstr.) **(Ger)**

METABOLISM

Lectin receptors of normal and dystrophic corneas. Panjwani N, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:171–3 (10 ref.)

Proteoglycan biosynthesis by human corneas from patients with types 1 and 2 macular corneal dystrophy. Midura RJ, et al. **J Biol Chem** 1990 Sep 15;265(26):15947–55

[Application of lectin histochemistry to various types of corneal dystrophy] Harada T, et al. **Nippon Ganka Gakkai Zasshi** 1990 Mar;94(3):300–6 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Macular corneal dystrophy: reduction in both corneal thickness and collagen interfibrillar spacing. Quantock AJ, et al. **Curr Eye Res** 1990 Apr;9(4):393–8

Macular corneal dystrophy: the macromolecular structure of the stroma observed using electron microscopy and synchrotron X-ray diffraction. Meek KM, et al. **Exp Eye Res** 1989 Dec;49(6):941–58

Macular corneal dystrophy in Iceland. Jonasson F, et al. **Eye** 1989;3 (Pt 4):446–54

The corneal dystrophy of Waardenburg and Jonkers. Wittebol-Post D, et al. **Ophthalmic Paediatr Genet** 1989 Dec;10(4):249–55

The pathology of posterior amorphous corneal dystrophy. Johnson AT, et al. **Ophthalmology** 1990 Jan;97(1):104–9

SURGERY

Recurrence of posterior polymorphous corneal dystrophy after penetrating keratoplasty [published erratum appears in Am J Ophthalmol 1990 May 15;109(5):622] Boruchoff SA, et al. **Am J Ophthalmol** 1990 Mar 15;109(3):323–8

VETERINARY

Corneal dystrophy in the dog and cat. Cooley PL, et al. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):681–92 (38 ref.)

CORNEAL EDEMA

CHEMICALLY INDUCED

Bilateral peripheral corneal edema after cefaclor therapy. Platt LW. **Arch Ophthalmol** 1990 Feb;108(2):175

Amantadine caused corneal edema [letter] Blanchard DL. **Cornea** 1990 Apr;9(2):181

COMPLICATIONS

Epithelial abnormalities in chronic corneal edema: a histopathological study. Eagle RC Jr, et al. **Trans Am Ophthalmol Soc** 1990;87:107–19; discussion 119–24

ETIOLOGY

Cold-induced corneal edema as an isolated feature of trigeminal neuropathy. Jacobson DM, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):484–6

Swelling and deswelling of rabbit corneas in response to rigid gas permeable, hydrogel and elastomer contact lens wear. Hideji I, et al. **CLAO J** 1989 Oct–Dec;15(4):290–7

Spontaneous detachment of Descemet's membrane. Case report and literature review. Morrison LK, et al. **Cornea** 1989 Dec;8(4):303–5

Pseudophakic corneal edema. An 11-year study of its development, incidence, and treatment. Polack FM. **Cornea** 1989 Dec;8(4):306–12

Recovery from contact lens-induced edema is prolonged in the diabetic rabbit cornea. Herse PR. **Optom Vis Sci** 1990 Jun;67(6):466–70

[A unrecognized cause of corneal edema: foreign body of the corneal angle] Gauthier L, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1135–7 **(Fre)**

[Pigment dispersion following extracapsular cataract surgery with posterior chamber lens implantation] Krüger H. **Fortschr Ophthalmol** 1989;86(5):433–6 (Eng. Abstr.) **(Ger)**

PATHOLOGY

[Experimental studies of the correlation of morphologic endothelial cell findings and endothelial pump function] Hagenah M, et al. **Fortschr Ophthalmol** 1989;86(5):443–7 (Eng. Abstr.) **(Ger)**

[Morphological study of corneal edema after anterior segment ischemia] Yamane A, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jun;93(6):714–21 (Eng. Abstr.) **(Jpn)**

CORNEAL ENDOTHELIUM see **ENDOTHELIUM, CORNEAL**

CORNEAL OPACITY

Unilateral corneal arcus [letter; comment] Sugimura G. **Arch Ophthalmol** 1990 Jun;108(6):780–1 Comment on: Arch Ophthalmol 1989 Aug;107(8):1121–2.

CHEMICALLY INDUCED

Total dosage of chlorpromazine and ocular opacities. Buffaloe WJ, et al. **Am J Psychiatry** 1967 Aug;124(2):250–1

A comparison of the opacifying effects of carteolol.HCl and 8-hydroxycarteolol.HCl in the isolated porcine cornea. Igarashi H, et al. **Fundam Appl Toxicol** 1990 Apr; 14(3):554–9

[Reaction of Langerhans cells of the corneal epithelium to topically applied lead] Niebrój T, et al. **Klin Oczna** 1989 Feb–Mar;91(2–3):54 (Eng. Abstr.) **(Pol)**

COMPLICATIONS

The association of corneal arcus with coronary heart disease and cardiovascular disease mortality in the Lipid Research Clinics Mortality Follow-up Study [see comments] Chambless LE, et al. **Am J Public Health** 1990 Oct; 80(10):1200–4 Comment in: Am J Public Health 1990 Oct;80(10):1170–1.

On looking risk in the eye [editorial; comment] Stoeckle JD. **Am J Public Health** 1990 Oct;80(10):1170–1 Comment on: Am J Public Health 1990 Oct;80(10):1200–4.

[Effects of early monocular deprivation because of leukoma or cataract on the development of the retina] Taktarov VG, et al. **Biull Eksp Biol Med** 1990 May;109(5):501–3 (Eng. Abstr.) **(Rus)**

CONGENITAL

The effect of corneal grafting on vision in bilateral amblyopia. Frucht-Pery J, et al. **Acta Ophthalmol Suppl (Copenh)** 1989; 192:20–3

Congenital corneal keloid. Weiner MJ, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:188–96

Congenital opacities of the cornea. Speakman JS, et al. **Br J Ophthalmol** 1966 Feb;50(2):68–78

DIAGNOSIS

Differentiation of posterior polymorphous dystrophy from other posterior corneal opacities by specular microscopy. Brooks AM, et al. **Ophthalmology** 1989 Nov;96(11):1639–45

ETIOLOGY

Late corneal opacities in the syndrome of interstitial keratitis and vestibulo-auditory symptoms. Cogan DG, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:182–7

Deep corneal stromal opacities in long-term contact lens wear. Remeijer L, et al. **Ophthalmology** 1990 Mar; 97(3):281–5

[Comparison of tolerance to hydrophilic contact lenses made of Hema (37% H2O) and Hema-Degma (55%, 65% H2O) in the rabbit eye. II. Changes in corneal transparency due profound degenerative processes] Cejková J, et al. **Cesk Oftalmol** 1989 Nov;45(6):408–11 (Eng. Abstr.) **(Cze)**

[Comparison of tolerance to hydrophilic contact lenses made of Hema (37% H2O) and Hema-Degma (55%, 65% H2O) in the rabbit eye. I. Changes in corneal transparency due to disturbed hydration] Cejková J, et al. **Cesk Oftalmol** 1989 Nov;45(6):401–7 (Eng. Abstr.) **(Cze)**

[Pigment dispersion following extracapsular cataract surgery with posterior chamber lens implantation] Krüger H. **Fortschr Ophthalmol** 1989;86(5):433–6 (Eng. Abstr.) **(Ger)**

[Sensitivity of animals to CO2 laser radiation] Ushkova IN, et al. **Gig Sanit** 1989 Oct;(10):45–7 (Eng. Abstr.) **(Rus)**

PATHOLOGY

[Endothelial function in contact lens-induced deep corneal opacities] Göbbels M, et al. **Fortschr Ophthalmol** 1989; 86(5):448–50 (Eng. Abstr.) **(Ger)**

SURGERY

[Clinical observations on the combined operation of penetrating keratoplasty, extracapsular cataract extraction and IOL implantation] Zheng YR, et al. **Chung Hua Yen Ko Tsa Chih** 1990 May;26(3):135–7 (Eng. Abstr.) **(Chi)**

[Rotation auto-keratoplasty. Preoperative calculation] Schroeder W. **Klin Monatsbl Augenheilkd** 1989 Aug; 195(2):83–6 (Eng. Abstr.) **(Ger)**

[Chemical burns of the eyes. II. Surgical treatment] Gierek-Lapińska A, et al. **Klin Oczna** 1989 Feb–Mar; 91(2–3):57–9 (Eng. Abstr.) **(Pol)**

CORNEAL STROMA see under **CORNEA**

CORNEAL TRANSPLANTATION

The effect of corneal grafting on vision in bilateral amblyopia. Frucht-Pery J, et al. **Acta Ophthalmol Suppl (Copenh)** 1989; 192:20–3

The effect of standardized keratoplasty technique on IOL power calculation for the triple procedure. Mattax JB, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:24–9

Long-term survival of large diameter penetrating keratoplasties for keratoconus and pellucid marginal degeneration. Speaker MG, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:17–9

Epikeratoplasty for adult and pediatric aphakia, myopia, and keratoconus: the Massachusetts Eye and Ear Infirmary experience. Wagoner MD, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:38–46

Human immunodeficiency virus seroprevalence among potential corneal donors from medical examiner cases. Hwang DG, et al. **Am J Ophthalmol** 1990 Jan 15; 109(1):92–3

Corneal topography of patients with excellent Snellen visual acuity after epikeratophakia for aphakia. Maguire LJ. **Am J Ophthalmol** 1990 Feb 15;109(2):162–7

Cryptococcal keratitis after keratoplasty. Perry HD, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):320–1

The use of cyclosporine in high-risk keratoplasty [letter; comment] Pleyer U, et al. **Am J Ophthalmol** 1989 Oct 15; 108(4):467–9 Comment on: Am J Ophthalmol 1989 May 15;107(5):506–10.

A periosteal-temporalis fascia pedicle flap for repairing impending ocular perforations and extruding keratoprostheses. Spoor TC, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):704–8

Promotion of graft survival by photothrombotic occlusion of corneal neovascularization. Corrent G, et al. **Arch Ophthalmol** 1989 Oct;107(10):1501–6

Crystal deposition following keratoplasty in nephropathic cystinosis. Katz B, et al. **Arch Ophthalmol** 1989 Dec; 107(12):1727–8

Cornea donation laws in the United States. Lee PP, et al. **Arch Ophthalmol** 1989 Nov;107(11):1585–9

Results of penetrating keratoplasty for the treatment of corneal perforations. Nobe JR, et al. **Arch Ophthalmol** 1990 Jul;108(7):939–41

Bacteriologic study of "donor" eyes. Evaluation of antibacterial treatments prior to corneal grafting. Polack FM, et al. **Arch Ophthalmol** 1967 Aug;78(2):219–25

Paediatric aphakic epikeratoplasty: early Australian experience. Collie DM. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):233–7

Preoperative assessment of the corneal endothelium [letter; comment] Kaufman D. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):322 Comment on: Aust N Z J Ophthalmol 1988 Nov;16(4):309–16.

'Hot' corneal grafts--a long-term study. Lam GC, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):395–8

Donor cornea procurement: six-year review of the role of the eye bank in South Australia. Williams KA, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):77–89

Intraocular lens power calculations in the triple procedure. Abdel-Hakim AS, et al. **Br J Ophthalmol** 1989 Sep; 73(9):709–13

Effect of donor parameters on primary graft failure and the recovery of acuity after keratoplasty. Halliday BL, et al. **Br J Ophthalmol** 1990 Jan;74(1):7–11

Epikeratophakia for aphakia, keratoconus, and myopia. Halliday BL. **Br J Ophthalmol** 1990 Feb;74(2):67–72

Manipulative damage to the endothelium of infant and adult donor corneas. Nartey IN, et al. **Br J Ophthalmol** 1990 May;74(5):261–4

Exceptional case of bone resorption in an osteo-odonto-keratoprosthesis. A scanning electron microscopy and X-ray microanalysis study. Caiazza S, et al. **Cornea** 1990 Jan;9(1):23–7

Epikeratoplasty for keratoconus. Report of 40 cases. Fronterrè A, et al. **Cornea** 1989 Dec;8(4):236–9

Lamellar keratectomy and repeat epikeratoplasty following failed epikeratoplasty. A clinicopathologic report. Goodman DF, et al. **Cornea** 1989 Dec;8(4):295–8

Pseudophakic corneal edema. An 11-year study of its development, incidence, and treatment. Polack FM. **Cornea** 1989 Dec;8(4):306–12

Propionibacterium acnes isolated from explanted intraocular lens in pseudophakic bullous keratopathy. Semel J, et al. **Cornea** 1989 Dec;8(4):259–62

Visual results after corneal transplantation. Jager MJ, et al. **Doc Ophthalmol** 1989 Aug;72(3–4):265–71

The success and survival of repeat corneal grafts. Kirkness CM, et al. **Eye** 1990;4 (Pt 1):58–64

Changing indications for keratoplasty. Morris RJ, et al. **Eye** 1989;3 (Pt 4):455–9

The role of the limbus in corneal allograft rejection. Williams KA, et al. **Eye** 1989;3 (Pt 2):158–66 (60 ref.)

One-year follow-up of epikeratophakia for keratoconus. Uusitalo RJ, et al. **Graefes Arch Clin Exp Ophthalmol** 1989; 227(5):401–7

Experimental autologous inverse keratoplasty—epithelial, stromal and endothelial interactions. Zagórski Z, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):55–7

Secondary IOL versus Epi-K. Davis DB 2d. **Indian J Ophthalmol** 1989 Apr–Jun;37(2):86–8

In vitro evaluation of fibroplasia in a porous polymer. Trinkaus-Randall V, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1321–6

One year follow-up of epikeratoplasty for myopia. Goosey JD, et al. **J Cataract Refract Surg** 1990 Jan;16(1):21–30

Effects of tissue adhesive (Tisseel) on corneal wound healing in lamellar keratoplasty in rabbits. Kim MS, et al. **Korean J Ophthalmol** 1989 Jun;3(1):14–21

The clinical report on six cases of epikeratoplasty. Lee JH, et al. **Korean J Ophthalmol** 1989 Dec;3(2):80–4

Suture patterns and corneal graft rotation in the cadaver eye. Au YK, et al. **Ophthalmic Surg** 1990 Jul;21(7):472–4

A hypertensive emergency following cataract extraction and cornea transplantation. Hemmady P, et al. **Ophthalmic Surg** 1989 Sep;20(9):647–9, Discussion, 650

The changing management and improved prognosis for corneal grafting in herpes simplex keratitis. Ficker LA, et al. **Ophthalmology** 1989 Nov;96(11):1587–96

Results of penetrating keratoplasty after epikeratophakia for keratoconus in the nationwide study. Frantz JM, et al. **Ophthalmology** 1989 Aug;96(8):1151–7; discussion 1157–9

An in vitro and clinical comparison of corneal storage with chondroitin sulfate corneal storage medium with and without dextran. Lass JH, et al. **Ophthalmology** 1990 Jan; 97(1):96–103

The use of topical cyclosporine in high-risk corneal transplants [letter] Martin XD, et al. **Ophthalmology** 1990 Jun;97(6):691–4

Visual results of suture-fixated posterior chamber lenses during penetrating keratoplasty. Price FW Jr, et al. **Ophthalmology** 1989 Aug;96(8):1234–9; discussion 1239–40

Clearing of bilirubin from donor corneas [letter; comment] Wesley RE. **Ophthalmology** 1990 Jan;97(1):5 Comment on: Ophthalmology 1989 Aug;96(8):1212–4.

Visual rehabilitation of aphakic children. IV. Epikeratophakia. Morgan KS. **Surv Ophthalmol** 1990 Mar-Apr;34(5):379–84 (23 ref.)

The surface of the corneal graft: in vivo color specular microscopic study in the human. Lemp MA. **Trans Am Ophthalmol Soc** 1990;87:619–57

An analysis of corneal endothelial and graft survival in pseudophakic bullous keratopathy. Sugar A. **Trans Am Ophthalmol Soc** 1990;87:762–801

Studies of the mechanism of tolerance induced by short-term immunosuppression with cyclosporine in high-risk corneal allograft recipients. I. Analysis of CTL precursor frequencies. Irschick E, et al. **Transplantation** 1989 Dec; 48(6):986–90

[Further studies on the functional decompensation of corneal endothelial cells] Xie LX. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):141–3 (Eng. Abstr.) **(Chi)**

[The position on the refractive surgery. Methods] Saragoussi JJ. **Annee Ther Clin Ophtalmol** 1988;39:193–204; discussion 215–28 **(Fre)**

[Influence of Healon on the endothelial morphometry of penetrating keratoplasties] Bazard MC, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1461–3 (Eng. Abstr.) **(Fre)**

[Anatomo-clinical study of 2 lenticules in myopic epikeratoplasty] Ben Rayana N, et al. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):43–8 **(Fre)**

[Human grafts preserved at +37 degrees C. Initial clinical results] Delbosc B, et al. **Bull Soc Ophtalmol Fr** 1989 Apr; 89(4):585–8, 591 (Eng. Abstr.) **(Fre)**

[Preliminary results concerning residual astigmatism of grafts following the use of Hanna's trepan] Imbert P, et al. **Bull Soc Ophtalmol Fr** 1989 Apr;89(4):541–2, 544 **(Fre)**

[The role of corneal graft in surgery of keratoconus] Lagoutte F, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1139–40 **(Fre)**

[Results of myopic keratomileusis without congelation. Retrospective study apropos of 17 cases] Mimouni F, et al. **Bull Soc Ophtalmol Fr** 1989 May;89(5):735–7 **(Fre)**

[Treatment of recurrent pterygium using a lamellar graft. Apropos of 2 cases] Riss I, et al. **Bull Soc Ophtalmol Fr** 1989 Apr;89(4):545–6 **(Fre)**

[Employment of patients after keratoplasty] Vymazal M, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:287–90 **(Ger)**

[Systemic cyclosporin A therapy in high risk keratoplasty] Bialasiewicz AA, et al. **Fortschr Ophthalmol** 1989; 86(6):574–80 (Eng. Abstr.) **(Ger)**

[The extent of bacterial contamination of keratoplasty donor eyes post mortem] Ritter E, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):70–5 (Eng. Abstr.) (Ger)
[Keratoplasty in private practice] Witmer R. **Klin Monatsbl Augenheilkd** 1990 May;196(5):304–6 (Eng. Abstr.) (Ger)
[Long-term follow-up of wound healing following epikeratophakia in rabbits] Sahori A. **Nippon Ganka Gakkai Zasshi** 1990 Jun;94(6):572–81 (Eng. Abstr.) (Jpn)
[Prognostication of results in correction of aphakia by lamellar refractive keratoplasty] Beliaev VS, et al. **Vestn Oftalmol** 1989 Jul–Aug;105(4):17–20 (Eng. Abstr.) (Rus)
[Protective effect on the graft of bioprotectors of the endothelium in reconstructive surgery of the anterior eye segment] Kasparov AA, et al. **Vestn Oftalmol** 1989 Jul–Aug;105(4):13–7 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Herpes simplex virus and persistent epithelial defects after penetrating keratoplasty. Beyer CF, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):95–6
Corneal compression sutures for the reduction of astigmatism after penetrating keratoplasty [letter; comment] Girard LJ. **Am J Ophthalmol** 1989 Nov 15;108(5):614 Comment on: Am J Ophthalmol 1989 Jul 15;108(1):36–42.
Interface abscess after epikeratoplasty. Hemady RK, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):735–6
Trichiasis is a trigger for recurrent corneal graft rejection [letter] deLuise VP, et al. **Cornea** 1990 Jan;9(1):90
Corneal steepening after epikeratoplasty. Nirankari VS. **Cornea** 1989 Dec;8(4):240–6
Comparison of failure rates of orthotopic corneal grafts using three different grafting procedures. Moticka EJ, et al. **Curr Eye Res** 1989 Aug;8(8):813–20
Pneumococcal endophthalmitis after ocular surgery—Alaska, California. **MMWR** 1990 Feb 9;39(5):71–3
Topical cyclosporine in high-risk corneal transplants. Belin MW, et al. **Ophthalmology** 1989 Aug;96(8):1144–50
Keratography as a guide to selective suture removal for the reduction of astigmatism after penetrating keratoplasty. Harris DJ Jr, et al. **Ophthalmology** 1989 Nov; 96(11):1597–607
Diseases potentially transmitted through corneal transplantation. O'Day DM. **Ophthalmology** 1989 Aug; 96(8):1133–7; discussion 1137–8 (39 ref.)
[Short, medium and long-term post-operative complications in 150 patients undergoing penetrating keratoplasty after one year] de Charnace B, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):11–2 (Eng. Abstr.) (Fre)
[Our experience with reducing incisions after keratoplasty] Nad' Z. **Vestn Oftalmol** 1989 Nov–Dec;105(6):29–31 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Update on topical cyclosporin A. Background, immunology, and pharmacology. Belin MW, et al. **Cornea** 1990 Jul; 9(3):184–95 (84 ref.)
The magic mountain [editorial] Cavanagh HD. **Cornea** 1990 Jul;9(3):183
Mechanisms of corneal graft failure: the erosion of corneal privilege. Coster DJ. **Eye** 1989;3 (Pt 3):251–62 (55 ref.)
Class II alloantigen induced on corneal endothelium. Role in corneal allograft rejection. Donnelly JJ, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1315–20
Risk of endothelial rejection after bilateral penetrating keratoplasty. Musch DC, et al. **Ophthalmology** 1989 Aug; 96(8):1139–43
The immunogenic privilege of corneal allografts. Niederkorn JY, et al. **Reg Immunol** 1989 Mar–Apr;2(2):117–24 (66 ref.)
Corneal grafting—strategy for optimal results. Baumgartner I, et al. **Tissue Antigens** 1989 Jul;34(1):5–8
UV-B irradiation of donor skin and cornea prior to allotransplantation in mice. Guymer RH, et al. **Transplant Proc** 1989 Oct;21(5):3771–2
Use of locally injected anti-T monoclonal antibodies in the treatment of acute corneal graft rejection. Ippoliti G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2579–80
The propagation of HLA-specific T cells from failed corneal grafts. Pollack MS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):408–9
The importance of HLA-DR matching in corneal transplant recipients treated with cyclosporine A. von Keyserlingk H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2576–8
Prevention of the induction of allospecific cytotoxic T lymphocyte and delayed-type hypersensitivity responses by ultraviolet irradiation of corneal allografts. Niederkorn JY, et al. **Transplantation** 1990 Aug;50(2):281–6
[At-risk keratoplasty, HLA antigens and cyclosporin A] Martin XD, et al. **Klin Monatsbl Augenheilkd** 1990 May; 196(5):301–3 (Eng. Abstr.) (Fre)

INSTRUMENTATION

The Hanna suction punch block and trephine system for penetrating keratoplasty. Waring GO 3d, et al. **Arch Ophthalmol** 1989 Oct;107(10):1536–9
Preclinical evaluation of a new donor corneal trephination system [published erratum appears in Ophthalmic Surg 1989 Nov;20(11):829] Allarakhia L, et al. **Ophthalmic Surg** 1989 Oct;20(10):707–12
[Corneal perforation: a new solution...] Legeais JM, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1123–5 (Eng. Abstr.) (Fre)
[Epikeratophakia: results in young patients with unilateral, post-traumatic aphakia using a congelated then dehydrated corneal lenticule (the Mac Donald, Kaufman technic)] Leroux les Jardins S, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul;89(6–7):811–8 (Eng. Abstr.) (Fre)
[Configuration of corneal incisions with the excimer laser: an experimental study] Lang GK, et al. **Fortschr Ophthalmol** 1989;86(5):437–42 (Eng. Abstr.) (Ger)

METHODS

A new elliptical excision for corneal transplantation using an excimer laser [letter] Lang GK, et al. **Arch Ophthalmol** 1990 Jul;108(7):914–5
The role of penetrating keratoplasty and epikeratoplasty in the surgical management of keratoconus. Lawless MA, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):387–93
Epikeratophakia with biological adhesive [letter] Rostron C. **Br J Ophthalmol** 1990 Jun;74(6):384
The use of a biological adhesive to achieve sutureless epikeratophakia. Brittain GP, et al. **Eye** 1989;3 (Pt 1):56–63
Large corneal grafts can be successful. Kirkness CM, et al. **Eye** 1989;3 (Pt 1):48–55
Epikeratophakia for the treatment of hyperopia. Ehrlich MI, et al. **J Cataract Refract Surg** 1989 Nov;15(6):661–6
Modified triple procedure using a temporary keratoprosthesis for closed-system, small-incision cataract surgery. Menapace R, et al. **J Cataract Refract Surg** 1990 Mar; 16(2):230–4
Comparison of limbal and conjunctival autograft transplantation in corneal surface reconstruction in rabbits. Tsai RJ, et al. **Ophthalmology** 1990 Apr;97(4):446–55
[Rotational corneal auto-grafting] Zhu ZZ. **Chung Hua Yen Ko Tsa Chih** 1989 Jul;25(4):212–3 (Eng. Abstr.) (Chi)
[Padded lamellar keratoplasty for the treatment of corneal perforation] Zhu ZZ. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):89–91 (Eng. Abstr.) (Chi)
[Refractive corneal surgery] Arné JL, et al. **Bull Soc Ophtalmol Fr** 1989 Nov;Spec No:1–263 (477 ref.) (Fre)
[Keratomileusis without freezing—results with a 6-month follow-up] Buffet JM, et al. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):163–5 (Eng. Abstr.) (Fre)
[Epikeratophakia: reflections apropos of several personal cases] Humbert P. **Bull Soc Ophtalmol Fr** 1989 Apr; 89(4):575–8 (Eng. Abstr.) (Fre)
[Keratoplasty à chaud: preliminary study] Metge P, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul;89(6–7):861–6 (10 ref.) (Eng. Abstr.) (Fre)
[Treatment of keratoconus using non-freezing epikeratoplasty] Arné JL, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):262–4 (Eng. Abstr.) (Fre)
[Alloplastic keratophakia. Use of a new polymer] Laroche L, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):227–8 (Eng. Abstr.) (Fre)
[Trephination using an Excimer laser] Serdarevic ON, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):8–10 (Eng. Abstr.) (Fre)
[Corneal transplantation] Waubke TN. **Fortschr Med** 1990 May 30;108(16):314–8 (11 ref.) (Eng. Abstr.) (Ger)
[Morphology of the corneal endothelium following preservation in dextran or chondroitin sulfate containing culture media] Abramo F, et al. **Fortschr Ophthalmol** 1990; 87(3):234–6 (Eng. Abstr.) (Ger)
[Non-freeze epikeratoplasty in recurrent pterygium] Radda TM, et al. **Fortschr Ophthalmol** 1989;86(6):597–9 (Eng. Abstr.) (Ger)
[Rotation auto-keratoplasty. Preoperative calculation] Schroeder W. **Klin Monatsbl Augenheilkd** 1989 Aug; 195(2):83–6 (Eng. Abstr.) (Ger)
[Epikeratophakia surgery for refractive errors and keratoconus] Avni I, et al. **Harefuah** 1989 Nov 15; 117(10):289–92 (Eng. Abstr.) (Heb)
[New reconstructive surgery in traumatic detachment of the ciliary body with recession of the angle of the anterior chamber] Begliarbekian VN. **Vestn Oftalmol** 1990 Mar–Apr;106(2):14–6 (Eng. Abstr.) (Rus)
[Keratoepitheliomilesis—a new method of surgical correction of myopia] Krasnov MM, et al. **Vestn Oftalmol** 1990 May–Jun;106(3):14–6 (Eng. Abstr.) (Rus)
[Refraction epikeratoplasty] Mamikonian VR, et al. **Vestn Oftalmol** 1989 Sep–Oct;105(5):65–9 (58 ref.) (Rus)

PATHOLOGY

Amitosis in human donor corneal endothelium—a serendipity? [letter] Nartey IN, et al. **Br J Ophthalmol** 1990 Jan;74(1):63
[Study of 2 lenses of myopic epikeratoplasty] Saragoussi JJ, et al. **J Fr Ophtalmol** 1989;12(6–7):465–8 (Fre)
[Experimental studies of the precision of lamellar corneal sections] Drager J, et al. **Fortschr Ophthalmol** 1989; 86(4):272–5 (Eng. Abstr.) (Ger)
[Bacterial contamination in corneal preservation: pathogens and their origin] Garweg J, et al. **Fortschr Ophthalmol** 1989; 86(4):287–90 (Eng. Abstr.) (Ger)
[Application of experimental findings of cryopreservation of animal tissue to results of cryopreservation of human tissue] Hagenah M, et al. **Fortschr Ophthalmol** 1990;87(2):218–20 (Eng. Abstr.) (Ger)
[Experimental studies of the correlation of morphologic endothelial cell findings and endothelial pump function] Hagenah M, et al. **Fortschr Ophthalmol** 1989;86(5):443–7 (Eng. Abstr.) (Ger)
[The metabolism of organ cultures of cornea in TC 199 with added dextran 500 or hydroxyethyl starch 450] Reim M, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):76–80 (Eng. Abstr.) (Ger)
[Reepithelialization of keratolens in the wound healing process following epikeratophakia in rabbits] Sahori A, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jul;93(7):747–57 (Eng. Abstr.) (Jpn)

STANDARDS

[Epikeratophakia. Apropos of 30 cases] Riss I, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):19–21 (Eng. Abstr.) (Fre)

CORNEAL ULCER

Distribution of collagenase and cell types in sterile ulceration of human corneal grafts. Wagoner MD, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:65–71
Corneal ulceration: have we advanced in the last 20 years? Tahija SG, et al. **Int Ophthalmol Clin** 1990 Winter; 30(1):33–5 (1 ref.)
Corneal ulceration. Whitcher JP. **Int Ophthalmol Clin** 1990 Winter;30(1):30–2 (14 ref.)

CHEMICALLY INDUCED

Toxic ulcerative keratopathy. An unrecognized problem. Schwab IR, et al. **Ophthalmology** 1989 Aug;96(8):1187–93

DIAGNOSIS

A 61-year-old man with a painless red eye and decreased visual acuity. Wolock BD. **Ophthalmic Surg** 1990 Feb; 21(2):136–7
[Mucosynechial conjunctivitis and bilateral corneal ulcers in Lyell's syndrome] Talea L. **Rev Chir [Oftalmol]** 1989 Oct–Dec;33(4):299–303 (Eng. Abstr.) (Rum)

DRUG THERAPY

Topical cyclosporine therapy for ulcerative keratitis associated with rheumatoid arthritis. Liegner JT, et al. **Am J Ophthalmol** 1990 May 15;109(5):610–2
Effect of systemic tetracycline on progression of Pseudomonas aeruginosa keratitis in the rabbit. Levy JH, et al. **Ann Ophthalmol** 1990 May;22(5):179–83
Topical steroids in the treatment of central and paracentral corneal ulcers. Carmichael TR, et al. **Br J Ophthalmol** 1990 Sep;74(9):528–31
An analysis of therapeutic decision making regarding immunosuppressive chemotherapy for peripheral ulcerative keratitis. Tauber J, et al. **Cornea** 1990 Jan;9(1):66–73
Evaluation of topical povidone-iodine versus gentamycin in staphylococcus coagulase positive corneal ulcers—an experimental study. Sharma LG, et al. **Indian J Ophthalmol** 1990 Jan–Mar;38(1):30–2
Clinical and experimental mycotic corneal ulcer caused by Aspergillus fumigatus and the effect of oral ketoconazole in the treatment. Singh SM, et al. **Mycopathologia** 1989 Jun;106(3):133–41
Use of aprotinin in the treatment of pseudomonas corneal ulceration. Stuart JC, et al. **Trans Pa Acad Ophthalmol Otolaryngol** 1989;41:823–6

EPIDEMIOLOGY

Problems with current concepts of the epidemiology of Mooren's corneal ulcer. Lewallen S, et al. **Ann Ophthalmol** 1990 Feb;22(2):52–5
Ulcerative keratitis in contact lens wearers. Incidence and risk factors. Schein OD, et al. **Cornea** 1990;9 Suppl 1:S55–8; discussion S62–3
Studies on mycotic keratitis. Sundaram BM, et al. **Mycoses** 1989 Nov;32(11):568–72

ETIOLOGY

Pseudomonas aeruginosa corneal infection associated with disposable contact lens use [letter] Glastonbury J, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):451
Ipsilateral axillary nerve palsy and corneal ulceration complicating severe measles. A case report. Onuba O. **Cent Afr J Med** 1990 Jan;36(1):23–4
Contact lens related corneal ulcers at the Ohio State University Hospitals 1983–1987. Derick RJ, et al. **CLAO J** 1989 Oct–Dec;15(4):268–70
Microbial keratitis and corneal ulceration associated with therapeutic soft contact lenses. Kent HD, et al. **CLAO J** 1990 Jan–Mar;16(1):49–52
Pseudomonas corneal ulcer associated with disposable soft contact lenses. Kent HD, et al. **CLAO J** 1989 Oct–Dec; 15(4):264–5
Ulcerative keratitis and the future of contact lens wear [editorial] Minor RH. **CLAO J** 1990 Jan–Mar;16(1):8
Role of active oxygen species in corneal ulceration. Effect of hydrogen peroxide generated in situ. Carubelli R, et al. **Cornea** 1990 Apr;9(2):161–9

Achromobacter xylosoxidans corneal ulcer in a therapeutic soft contact lens wearer. Fiscella R, et al. **Cornea** 1989 Dec; 8(4):267–9

Keratoconjunctivitis sicca and corneal ulcers. Hemady R, et al. **Cornea** 1990 Apr;9(2):170–3

Factitious bilateral crystalline keratopathy. Lembach RG, et al. **Cornea** 1990 Jul;9(3):246–8

Corneal trauma and infection caused by manipulation of the eyelashes after application of mascara [letter] Wilson SE, et al. **Cornea** 1990 Apr;9(2):181–2

Actinomycetic corneal ulcer. Singh M, et al. **Eye** 1989;3 (Pt 4):460–2

Contact lens related corneal ulcers. Noecker RJ, et al. **N C Med J** 1990 Jun;51(6):269–71

Ulcerative keratitis among users of contact lenses [letter] **N Engl J Med** 1990 Mar 8;322(10):700–1

Lens wearers risk infection [news] **Occup Health Saf** 1989 Nov;58(12):8, 10

[Inflammatory mechanisms in corneal ulceration] Zhu ZZ. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):24–5 (Eng. Abstr.) **(Chi)**

[Type II oculo-cutaneous tyrosinosis or Richner-Hanhart syndrome—apropos of a case] Foels MO, et al. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):21–4 **(Fre)**

[Proteolytic enzymes of the lacrimal fluid as pathogenesis factors of chronic corneal ulcer] Dotsenko VL, et al. **Vopr Med Khim** 1990 May–Jun;36(3):73–6 (Eng. Abstr.) **(Rus)**

[Ulcerative keratitis as a complication of contact lenses] Nilsson SE. **Lakartidningen** 1990 Jun 27;87(26–27):2245–7 **(Swe)**

IMMUNOLOGY

Serum and tear immunoglobulins in bacterial, fungal and viral corneal ulcers. Lal H, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):71–4

MICROBIOLOGY

Fusarium moniliforme keratitis. Durán JA, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):710–3

Keratitis due to Arthrobotrys oligospora Fres. 1850. Thomas PA, et al. **J Med Vet Mycol** 1990;28(1):47–50

PREVENTION & CONTROL

Inhibition of alkali-induced corneal ulceration and perforation by a thiol peptide. Burns FR, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):107–14

SURGERY

Mooren's ulcer treated with a periosteal graft. Dingeldein SA, et al. **Ann Ophthalmol** 1990 Feb;22(2):56–7

Surgical management of corneal ulceration and perforation. Portnoy SL, et al. **Surv Ophthalmol** 1989 Jul–Aug; 34(1):47–58 (85 ref.)

[Keratoplasty à chaud: preliminary study] Metge P, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul;89(6–7):861–6 (10 ref.) (Eng. Abstr.) **(Fre)**

[Use of a fibrin glue (Tissucol) for treating perforated or pre-perforated corneal ulcer] Gauthier L, et al. **J Fr Ophtalmol** 1989;12(6–7):469–76 (31 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

Management of human keratomycosis with miconazole. Mohan M, et al. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):295–7

A fibrin sealant for perforated and preperforated corneal ulcers. Lagoutte FM, et al. **Br J Ophthalmol** 1989 Sep; 73(9):757–61

VETERINARY

Surgical repair of collagenolytic ulcerative keratitis in the horse. Hacker DV, et al. **Equine Vet J** 1990 Mar; 22(2):88–92

Ulcerative keratitis. Kern TJ. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):643–66 (39 ref.)

Persistent corneal ulcers. What to do when ulcers won't heal. Kirschner SE. **Vet Clin North Am Small Anim Pract** 1990 May;20(3):627–42 (32 ref.)

[The clinical case. Corneal ulcer, superficial and deep keratitis and acute iritis] Köstlin R, et al. **Tierarztl Prax** 1989; 17(4):352, 430–1 **(Ger)**

CORNELL MEDICAL INDEX see under **MEDICAL HISTORY TAKING**

CORNS see under **CALLOSITIES**

CORONARY ANEURYSM

Multiple aneurysms of the coronary arteries in a patient with systemic aneurysmal disease. LaMendola CL, et al. **Ann Thorac Surg** 1990 Jun;49(6):1009–10

COMPLICATIONS

Apical hypertrophic cardiomyopathy with spontaneous post partum coronary artery dissection. Lette J, et al. **Can J Cardiol** 1989 Sep;5(6):311–4

Aneurysmal coronary sinus associated with severe valvular heart disease. Wong CK, et al. **Clin Cardiol** 1990 Aug; 13(8):582–4

Discrete atherosclerotic coronary artery aneurysms: a study of 20 patients. Tunick PA, et al. **J Am Coll Cardiol** 1990 Feb;15(2):279–82

Right ventricular myocardial infarction and late cardiac tamponade due to right coronary artery aneurysm—a case report. Koike R, et al. **Jpn J Surg** 1990 Jul;20(4):463–7 (10 ref.)

Dissecting aneurysm of coronary artery presenting as cardiac tamponade. Cheung A, et al. **N Z Med J** 1990 Mar 28; 103(886):129–30

False aneurysm formation after Salmonella virchow infection of a pre-existent ventricular aneurysm—survival after surgical resection. Echevarria S, et al. **Postgrad Med J** 1989 Mar;65(761):168–70

Continuous ambulatory peritoneal dialysis in a diabetic patient with renal insufficiency and ventricular aneurysm. Miura M, et al. **Tokai J Exp Clin Med** 1989 Jun; 14(3):249–55

[Wells syndrome with eosinophilic vasculitis, coronary aneurysms and myocardial infarction] Casazza F, et al. **G Ital Cardiol** 1989 Oct;19(10):923–7 (Eng. Abstr.) **(Ita)**

[Coronary vessels aneurysm and cardiac tamponade] Boman K, et al. **Lakartidningen** 1989 Sep 6;86(36):2965 **(Swe)**

CONGENITAL

Congenital aneurysm of the right coronary artery with fistulous connection to the right atrium. Ludomirsky A, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):672–5

Congenital coronary artery anomalies in Noonan's syndrome. Wong CK, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):396–400

Asymptomatic congenital coronary artery aneurysm in adulthood. Wong CK, et al. **Eur Heart J** 1989 Oct; 10(10):947–9

DIAGNOSIS

Systolic compression of the right coronary artery by a pseudoaneurysm following mitral valve replacement. Minami KT, et al. **Cathet Cardiovasc Diagn** 1989 Sep; 18(1):31–5 (32 ref.)

Echocardiography in Kawasaki disease. Meyer RA. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):269–75

Kawasaki's syndrome [letter; comment] Nitsure MY, et al. **J Assoc Physicians India** 1989 Dec;37(12):795 Comment on: J Assoc Physicians India 1989 Apr;37(4):287–8.

MR imaging in the definition of coronary artery anomalies. Pucillo AL, et al. **J Comput Assist Tomogr** 1990 Mar–Apr; 14(2):171–4

[Coronary aneurysm following Kawasaki syndrome] Engelhardt W, et al. **Z Kardiol** 1990 May;79(5):336–40 (Eng. Abstr.) **(Ger)**

[Coronary artery aneurysm: report of three cases] Futo T, et al. **J Cardiol Suppl** 1989;22:13 **(Jpn)**

[A case of primary coronary artery dissection] Nishino M, et al. **Kokyu To Junkan** 1990 Jun;38(6):589–93 (Eng. Abstr.) **(Jpn)**

[A case of a giant aneurysm of the coronary artery] Chazov EI, et al. **Ter Arkh** 1990;62(1):112–4 **(Rus)**

DRUG THERAPY

Thrombolytic therapy in coronary ectasia and acute myocardial infarction. Rab ST, et al. **Am Heart J** 1990 Apr;119(4):955–7

EPIDEMIOLOGY

Prevalence and clinical significance of coronary artery ectasia (an angiographic study). Bhargava M, et al. **Indian Heart J** 1989 Sep–Oct;41(5):284–7

ETIOLOGY

Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels. de Albuquerque CP, et al. **Am Heart J** 1990 May;119(5):1197–9

Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult. Brevard SB, et al. **Ann Thorac Surg** 1990 Aug;50(2):291–2; discussion 293

Coronary artery aneurysm due to primary cardiac lymphoma. Gardiner DS, et al. **Histopathology** 1989 Nov;15(5):537–40

Coronary arterial aneurysm after percutaneous transluminal coronary recanalization with streptokinase. Chen MF, et al. **Int J Cardiol** 1990 Jul;28(1):117–9

Salmonella endocarditis [letter] Banerjee AK, et al. **Postgrad Med J** 1989 Oct;65(768):801–2

[Coronary artery dissection secondary to selective coronary angiography] Porcu M, et al. **Radiol Med (Torino)** 1990 Mar;79(3):175–7 (Eng. Abstr.) **(Ita)**

[Primary spontaneous coronary artery dissection] Horimoto M. **Kokyu To Junkan** 1989 Aug;37(8):853–8 (60 ref.) **(Jpn)**

[Coronary ectasis: another form of atherosclerosis] Aparici M, et al. **Med Clin (Barc)** 1989 Oct 7;93(10):368–71 (28 ref.) (Eng. Abstr.) **(Spa)**

PATHOLOGY

Coronary artery disease [letter] Hayne S, et al. **Am J Forensic Med Pathol** 1990 Jun;11(2):181–2

Echocardiographic features of a giant congenital aneurysm of the right coronary artery. Zhang CC, et al. **JCU** 1988 Sep;16(7):502–5

[The etiopathogenesis of infantile coronary sclerosis in so-called Kawasaki syndrome] Althoff H. **Pathologe** 1990 Jan;11(1):41–7 **(Ger)**

[A case of an aneurysm of the coronary artery] Nasriddinova NN, et al. **Arkh Patol** 1990;52(2):72–4 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Repetitive myocardial infarction in a young woman with vasospastic coronary artery disease [letter] Coma-Canella I. **Eur Heart J** 1990 Jun;11(6):577

[Spontaneous coronary artery dissection: a rare cause of myocardial infarct] Werner GS, et al. **Z Kardiol** 1990 Jan; 79(1):32–6 (Eng. Abstr.) **(Ger)**

[Two cases of primary artery dissection] Kawahara Y, et al. **Kokyu To Junkan** 1990 Mar;38(3):261–4 (Eng. Abstr.) **(Jpn)**

SURGERY

Massive aneurysm of the left main coronary artery. Hawkins JW, et al. **Am Heart J** 1990 Jun;119(6):1406–8

Postpartum coronary artery dissection followed by heart transplantation. Curiel P, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):538–9

Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery. Takeuchi Y, et al. **Ann Thorac Surg** 1990 Aug;50(2):294–6

Treatment of acute aortic dissection involving the right coronary artery and aortic valve. Coselli JS. **J Cardiovasc Surg (Torino)** 1990 May–Jun;31(3):305–9

Survival after spontaneous primary left main coronary artery dissection. Acute surgical intervention with the Jarvik 7-70 artificial heart. Keon WJ, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):786–9

Spontaneous coronary artery dissection with left ventricular aneurysm—a case report of successful surgical repair. Shioi K, et al. **Thorac Cardiovasc Surg** 1989 Oct;37(5):324–6

[Congenital coronary artery fistula draining into the superior vena cava with giant saccular aneurysm—report of a case] Tada Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov;37(11):2378–81 (Eng. Abstr.) **(Jpn)**

[A successful surgical treatment of left coronary artery-pulmonary artery fistula with giant saccular aneurysm] Watanabe Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun;37(6):1206–10 (Eng. Abstr.) **(Jpn)**

THERAPY

Balloon dilatation of symptomatic subacute intimal dissection presenting as restenosis. Noveck HD, et al. **Am J Cardiol** 1989 Nov 1;64(16):980–4

Coronary artery aneurysm formation following percutaneous transluminal coronary angioplasty: treatment of associated restenosis with repeat percutaneous transluminal coronary angioplasty. Walford GD, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):77–83

CORONARY ANGIOPLASTY, TRANSLUMINAL BALLOON see **ANGIOPLASTY, TRANSLUMINAL, PERCUTANEOUS CORONARY**

CORONARY ARTERIOSCLEROSIS

Diffuse coronary vasospasm and accelerated atherosclerosis in a transplanted human heart. Little T, et al. **Am J Cardiol** 1989 Oct 1;64(12):825–7

Coronary artery disease (CAD), ischemic heart disease (IHD), or coronary atherosclerosis? [letter] Viamonte M Jr. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):282

Coronary atherosclerotic heart disease—a review for the general practitioners. Sinha AK, et al. **J Indian Med Assoc** 1990 Feb;88(2):57–9 (0 ref.)

BLOOD

Lipoprotein (a) as a risk factor for atherosclerotic diseases. Dahlén G. **Arctic Med Res** 1988;47 Suppl 1:458–61

Role of triglyceride-rich lipoproteins in progression of atherosclerosis [comment] Havel RJ. **Circulation** 1990 Feb; 81(2):694–6 Comment on: Circulation 1990 Feb;81(2):470–6.

[15N tracer technical studies of protein metabolism in arteriosclerosis patients] Barleben H, et al. **Klin Wochenschr** 1990 May 17;68(10):518–22 (Eng. Abstr.) **(Ger)**

[Erythrocyte aggregation, erythrocyte filterability and membrane fluidity in single-area atherosclerotic vascular disease] Sarno A, et al. **Ric Clin Lab** 1989;19 Suppl 1:133–6 **(Ita)**

CHEMICALLY INDUCED

Absence of coronary or aortic atherosclerosis in rats having dietary lipid modified vulnerability to cardiac arrhythmias. Turner J, et al. **Atherosclerosis** 1990 May;82(1–2):105–12

COMPLICATIONS

Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels. de Albuquerque CP, et al.

Am Heart J 1990 May;119(5):1197–9

Atherosclerosis in a donor heart [letter] Miller GL. Ann Intern Med 1990 Sep 15;113(6):484

Diabetes, lipoprotein metabolism and atherosclerosis. Betteridge DJ. Br Med Bull 1989 Jan;45(1):285–311 (152 ref.)

Hypothesis: ischaemic plaque necrosis as the initiator of unstable angina/acute myocardial infarction? Boyd GW. Clin Exp Pharmacol Physiol 1990 Mar;17(3):215–8

Discrete atherosclerotic coronary artery aneurysms: a study of 20 patients. Tunick PA, et al. J Am Coll Cardiol 1990 Feb;15(2):279–82

The epidemiological relationship of hypercholesterolemia, hypertension, diabetes mellitus and obesity to coronary heart disease and atherogenesis. Stehbens WE. J Clin Epidemiol 1990;43(8):733–41 (88 ref.)

Coronary atherosclerosis and thrombosis. Verstraete M. Recenti Prog Med 1990 Apr;81(4):221–7 (108 ref.)

Fatal outcome of homozygous familial hypercholesterolaemia in a black patient. A case report. Marais AD, et al. S Afr Med J 1990 Jun 2;77(11):588–90

Relationship between coronary atherosclerosis and "sudden cardiac death". Effects of age and calcium blockers in hypercholesterolemic mini-pigs. Lundholm CE, et al. Zentralbl Allg Pathol 1989;135(6):565–76

[Coronary insufficiency caused by atherosclerosis. Current pathogenic concepts, clinical, angio-anatomic correlations and therapeutic deductions] Grand A, et al. Ann Cardiol Angeiol (Paris) 1990 Jun;39(6):333–41 (62 ref.) (Eng. Abstr.) (Fre)

[Acute cardiac death in chronic-ischemic heart disease (CIHD)] Breitfellner G. Zentralbl Allg Pathol 1989; 135(6):533–9 (39 ref.) (Eng. Abstr.) (Ger)

[Unstable stenocardia: various problems of pathogenesis and treatment] Gratsianskiĭ NA. Kardiologiia 1989 Oct; 29(10):26–31 (Rus)

[Disorders of cardiac rhythm in coronary disease in the elderly] Brkić I, et al. Med Arh 1985;39(6):235–7 (Scr)

[Coronary ectasis: another form of atherosclerosis] Aparici M, et al. Med Clin (Barc) 1989 Oct 7;93(10):368–71 (28 ref.) (Eng. Abstr.) (Spa)

DIAGNOSIS

Correlates of atherosclerosis in coronary arteries of patients undergoing angiographic evaluation. Perez GO, et al. Angiology 1990 Jul;41(7):525–32

"Silent" myocardial ischaemia in essential hypertension. Yurenev AP, et al. Cor Vasa 1990;32(1):13–8

Further evaluation of immunocytochemical staining in the diagnosis of early myocardial ischaemic/hypoxic damage. Leadbeatter S, et al. Forensic Sci Int 1990 Mar; 45(1–2):135–41

The evaluation of the patient with hypercholesterolemia. Melish J. Hawaii Med J 1990 Jul;49(7):264–5

Transthoracic ultrasonic visualization of coronary atherosclerosis. Feigenbaum H. J Am Soc Echocardiogr 1989 Jul–Aug;2(4):253–8

New insights into the pathophysiology of coronary arteries by epicardial high frequency echocardiography. McPherson DD, et al. J Am Soc Echocardiogr 1989 Jul–Aug;2(4):284–95 (36 ref.)

[Comparison between Doppler CW and Duplex-Scanning in the assessment of silent peripheral vascular lesions in a population of ischemic heart disease patients] Caruzzo C, et al. Minerva Cardioangiol 1989 Jun;37(6):269–72 (Eng. Abstr.) (Ita)

DIET THERAPY

Differential effects of n-3 fatty acids on the regression of atherosclerosis in coronary arteries and the aorta of the pig. Sassen LM, et al. Eur Heart J 1989 Nov;10 Suppl F:173–8

DRUG THERAPY

Mackerel oil and atherosclerosis in pigs. Sassen LM, et al. Eur Heart J 1989 Sep;10(9):838–46

Suppression of cerebral, myocardial and renal arteriosclerosis by the calcium antagonist flunarizine in hypertensive rats (Skelton model) without reduction of the high blood pressure. Schwabedal PE, et al. J Hypertens Suppl 1989 Dec;7(6):S280–1

Intracoronary infusion of vasoactive peptides [letter; comment] Lancet 1989 Nov 11;2(8672):1165 Comment on: Lancet 1989 Oct 21;2(8669):958–9.

Cholesterol lowering drugs [letter; comment] N Z Med J 1990 Apr 25;103(888):189 Comment on: N Z Med J 1990 Mar 28;103(886):138.

Oral contraceptives and coronary artery atherosclerosis of cynomolgus monkeys. Clarkson TB, et al. Obstet Gynecol 1990 Feb;75(2):217–22

[Effect of the prevention and treatment of atherosclerosis of a mixture of Hawthorn and Motherworn] He G. Chung Hsi I Chieh Ho Tsa Chih 1990 Jun;10(6):361, 326 (Eng. Abstr.) (Chi)

[Nitrate plaster: duration of effect—loss of effect. Deliberations on the mechanism of activity of nitrate] Bussmann WD. Dtsch Med Wochenschr 1989 Dec 22; 114(51–52):2023–6 (8 ref.) (Ger)

[German INTACT Symposium. Results of the INTACT Study: inhibition of the progression of coronary sclerosis using nifedipine. 20–21 January 1990, Hannover] Internist (Berl) 1990 May;31(5 Suppl):1–15 (Ger)

[Can the progression of coronary heart disease be modified by calcium antagonists?] Schneider W, et al. Z Kardiol 1989; 78 Suppl 5:112–20 (47 ref.) (Eng. Abstr.) (Ger)

[Clinical use of prostacyclin and its analogs in coronary vasculopathy] Lenzi S, et al. Ann Ital Med Int 1986 Jun; 1(2):141–51 (Eng. Abstr.) (Ita)

[Angiographic course of coronary atherosclerosis in angina pectoris. Its relation to 2 years' treatment with propranolol, nifedipine and nitrates] Loaldi A, et al. Cardiologia 1989 Nov;34(11):959–66 (Eng. Abstr.) (Ita)

[Correction of dyslipoproteinemia in middle-aged and elderly patients with atherosclerosis using Essentiale in combination with adebit] Korkushko OV, et al. Vrach Delo 1989 Aug;(8):19–22 (Eng. Abstr.) (Rus)

ENZYMOLOGY

[A histochemical study of enzyme activity in the myocardium of victims of sudden death with small-focal cardiosclerosis] Cherpachenko NM, et al. Arkh Patol 1989;51(9):10–3 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

Travel, time zones, and sudden cardiac death. Emporiatric pathology. Couch RD. Am J Forensic Med Pathol 1990 Jun;11(2):106–11

Left ventricular function, tricuspid incompetence, and incidence of coronary artery disease late after orthotopic heart transplantation. Herrmann G, et al. Eur J Cardiothorac Surg 1989;3(2):111–7; discussion 118

[Cytomegalovirus infection and coronary sclerosis after heart transplantation] Loebe M, et al. Dtsch Med Wochenschr 1990 Aug 24;115(34):1266–9 (Eng. Abstr.) (Ger)

[The risk factors for ischemic heart disease among flight personnel and the probability of predicting coronary atherosclerosis] Chuntul VV. Voen Med Zh 1990 Jan; (1):53–6 (Rus)

[Prevention of coronary atherosclerosis: (IV): Prevalence of aortic atherosclerosis in Mexico, D.F. Its relation to coronary atherosclerosis] Viniegra-Osorio A, et al. Arch Inst Cardiol Mex 1989 Jul–Aug;59(4):415–24 (Eng. Abstr.) (Spa)

ETIOLOGY

The relationship between cigarette usage and aortic atherosclerosis. Sackett DL, et al. Am J Epidemiol 1967 Jul;86(1):264–70

Histological and histochemical studies on local coronary wall thickenings (cushions) in Finnish children who died violently. Cardiovascular risk in young Finns? Raekallio J, et al. APMIS 1990 Feb;98(2):137–42

Platelets, blood flow, and the vessel wall. Mustard JF, et al. Circulation 1990 Jan;81(1 Suppl):I24–7; discussion I40–1 (39 ref.)

Immunohistochemical analysis of accelerated graft atherosclerosis in cardiac transplantation. Louie HW, et al. Curr Surg 1989 Nov–Dec;46(6):479–83

Dyslipoproteinemias after heart and heart-lung transplantation: potential relation to accelerated graft arteriosclerosis. Bilodeau M, et al. J Heart Transplant 1989 Nov–Dec;8(6):454–9

Coronary arteriosclerosis in pediatric heart transplant survivors: limitation of long-term survival. Pahl E, et al. J Pediatr 1990 Feb;116(2):177–83

Diet and new lesions of the coronary arteries [letter] JAMA 1990 Sep 12;264(10):1251–2

Lipid levels and risk of atherosclerotic coronary heart disease in the older person. Ettinger WH. Med Clin North Am 1989 Nov;73(6):1525–30 (20 ref.)

Allograft heart accelerated atherosclerosis: evidence for cell-mediated immunity in pathogenesis. Gravanis MB. Mod Pathol 1989 Sep;2(5):495–505

Holding the line against heart disease [news] Marx J. Science 1990 Jun 22;248(4962):1491–3

[Studies on the pathogenesis of atherosclerosis] Chen KF. Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1989 Aug; 11(4):246–9 (Eng. Abstr.) (Chi)

[Passive smoking] Hof S. Med Monatsschr Pharm 1990 Jun; 13(6):175–8 (8 ref.) (Ger)

[Uric acid and ischemic cardiopathy] de Castro JJ. Rev Port Cardiol 1988 May–Jun;7(3):347–9 (19 ref.) (Eng. Abstr.) (Por)

[Progression of coronary arteriosclerosis: its diagnosis and the possibilities of prognosis and control] Khalfen ESh, et al. Kardiologiia 1989 Aug;29(8):5–8 (Rus)

[Cholesterol-containing circulating immune complexes—a component of the blood serum in patients with ischemic heart disease that determines its atherogenic properties] Tertov VV, et al. Kardiologiia 1989 Aug;29(8):35–8 (Eng. Abstr.) (Rus)

[The heart and diabetes mellitus] Lerman Garber I, et al. Arch Inst Cardiol Mex 1990 Jan–Feb;60(1):79–88 (84 ref.) (Eng. Abstr.) (Spa)

[Current concepts on cholesterol and its clinical importance] Sienra-Pérez JC, et al. Gac Med Mex 1989 May–Jun; 125(5–6):165–72 (25 ref.) (Spa)

[Lipoprotein Lp(a): a risk factor for atherosclerosis] Gutiérrez Fuentes JA, et al. Med Clin (Barc) 1989 Nov 11;93(15):565–7 (Eng. Abstr.) (Spa)

GENETICS

[Atherogenic dyslipidemia in adolescents: its relation to ischemic heart disease in their fathers and the possibility of its prognosis] Mete'lskaia VA, et al. Kardiologiia 1989 Sep;29(9):28–34 (Eng. Abstr.) (Rus)

METABOLISM

Characterization of human coronary artery atherosclerotic plaque fluorescence emission. Lucas A, et al. Can J Cardiol 1990 Jul–Aug;6(6):219–28

MORTALITY

Sudden cardiac death: a diversity of causes with focus on atherosclerotic coronary artery disease. Roberts WC. Am J Cardiol 1990 Jan 16;65(4):13B–19B (36 ref.)

From poverty to prosperity—a hazard to the health. Forsdahl A. Arctic Med Res 1988;47 Suppl 1:60–2

Secular trends in atherosclerosis of coronary arteries and basal cerebral arteries in Japan. The Akita pathology study. Konishi M, et al. Arteriosclerosis 1990 Jul–Aug; 10(4):535–40

Sudden coronary death. Warnes CA. Clin Cardiol 1989 Dec; 12(12):717–22

Mechanisms of excess cardiovascular mortality in diabetes. Keen H, et al. Postgrad Med J 1989;65 Suppl 1:S26–9 (25 ref.)

[Arteriosclerosis and cancer—fats or carbohydrates? (letter)] Schwandt P, et al. Wien Klin Wochenschr 1989 Nov 24; 101(22):787–9 (Ger)

[Epidemiology of atherosclerosis and disorders of lipid metabolism] Kunze M, et al. Wien Med Wochenschr 1990 Feb 28;140(4):94–100 (25 ref.) (Eng. Abstr.) (Ger)

PATHOLOGY

Quantitative analysis of amounts of coronary arterial narrowing in cocaine addicts. Dressler FA, et al. Am J Cardiol 1990 Feb 1;65(5):303–8

Morphometric analysis of the composition of coronary arterial plaques in isolated unstable angina pectoris with pain at rest. Kragel AH, et al. Am J Cardiol 1990 Sep 1; 66(5):562–7

Diffuse extent of coronary atherosclerosis in fatal coronary artery disease. Roberts WC. Am J Cardiol 1990 Mar 20; 65(12):2F–6F

Coronary "lesion," coronary "disease," "single-vessel disease," "two-vessel disease": word and phrase misnomers providing false impressions of the extent of coronary atherosclerosis in symptomatic myocardial ischemia [editorial] Roberts WC. Am J Cardiol 1990 Jul 1; 66(1):121–3

Coronary atherosclerosis in the pig. Induced plaque injury and platelet response. Reddick RL, et al. Arteriosclerosis 1990 Jul–Aug;10(4):541–50

Morphometric analysis of the composition of atherosclerotic plaques in the four major epicardial coronary arteries in acute myocardial infarction and in sudden coronary death. Kragel AH, et al. Circulation 1989 Dec;80(6):1747–56

Rapid acceleration of atherosclerosis in hypertensive rats on high fat diet. Koletsky S, et al. Exp Mol Pathol 1968 Dec; 9(3):322–38

Morphogenesis of aortic and coronary atherosclerosis in north India—a composite study. Tandon HD, et al. Exp Mol Pathol 1968 Dec;9(3):293–308

Atherosclerosis in Japanese in Japan and in Hawaii: a summary review of pathology studies in Honolulu and Hiroshima. Stemmermann GN, et al. Hawaii Med J 1990 Jul;49(7):262–4

An update on the pathogenesis of atherosclerosis (principles of prevention, intervention, retardation, and regression). Wissler RW, et al. Hawaii Med J 1990 Jul;49(7):237–40, 261

Undifferentiated vascular endothelial cells in coronary allograft atherosclerosis [letter] Beranek JT, et al. Int J Cardiol 1990 Jul;28(1):127–8

The relationship between growth of atherosclerotic plaques, variant angina and sudden death. Corrado D, et al. Int J Cardiol 1990 Mar;26(3):361–7

Death in atherosclerotic plaque coronary artery disease: lessons learned at necropsy [editorial; comment] Dunn M. J Am Coll Cardiol 1990 Jan;15(1):204–5 Comment on: J Am Coll Cardiol 1990 Jan;15(1):196–203.

Mode of death, frequency of healed and acute myocardial infarction, number of major epicardial coronary arteries severely narrowed by atherosclerotic plaque, and heart weight in fatal atherosclerotic coronary artery disease: analysis of 889 patients studied at necropsy [see comments] Roberts WC, et al. J Am Coll Cardiol 1990 Jan; 15(1):196–203 Comment in: J Am Coll Cardiol 1990 Jan;15(1):204–5.

Role of smooth-muscle cells and macrophages in cardiac allograft arteriosclerosis in rabbits. Sasaguri S, et al. J Heart Transplant 1990 Jan–Feb;9(1):18–24

Coronary atherosclerosis and myocardial infarction in autopsied patients in Gondar, Ethiopia. Maru M. J R Soc Med 1989 Jul;82(7):399–401

Experimental obstructive coronary atherosclerosis in the hyperlipidemic hamster. Sima A, et al. J Submicrosc Cytol Pathol 1990 Jan;22(1):1–16

Prevalence of thick intimas and of obstructive lesions in the vessels supplying the conduction system of the heart.

Velican D, et al. **Med Interne** 1989 Jul–Sep;27(3):197–208

Coronary anatomy and microarchitecture as related to coronary atherosclerotic involvement. Velican D, et al. **Med Interne** 1989 Oct–Dec;27(4):257–62

In vitro growth characteristics of human atherosclerotic plaque cells: comparison of cells from primary stenosing and restenosing lesions of peripheral and coronary arteries. Dartsch PC, et al. **Res Exp Med (Berl)** 1990;190(2):77–87

Histopathological sinus node classification and its relation to coronary atherosclerosis using an atherometric system. Fernández-Britto JE, et al. **Zentralbl Allg Pathol** 1990; 136(1–2):77–86

Morphologic and pathogenetic aspects of coronary artery atherosclerosis in ischemic heart disease. Nagornev VA. **Zentralbl Allg Pathol** 1989;135(6):591–8

Are routine autopsy protocols adequate for accurate appraisal of coronary atherosclerosis? Velican C, et al. **Zentralbl Allg Pathol** 1989;135(6):619–29

[Comparative study of left coronary artery of 128 necropsies with myocardial infarction] Wu X. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Mar;19(1):26–8 (Eng. Abstr.) (Chi)

[Degree of arteriosclerosis of the internal mammary artery and of the coronary arteries in 45–to–75–year–old men. An autopsy study] Jülke M, et al. **Schweiz Med Wochenschr** 1989 Sep 9;119(36):1219–23 (Eng. Abstr.) (Ger)

[Pattern of the coronary endothelium in the human] Bürrig KF, et al. **Z Kardiol** 1989;78 Suppl 6:100–4 (30 ref.) (Eng. Abstr.) (Ger)

[Suppression of coronary sclerosis in hypertensive rats by calcium channel antagonists without lowering blood pressure] Schwabedal PE, et al. **Z Kardiol** 1989;78 Suppl 5:108–11 (Eng. Abstr.) (Ger)

[Quantitative morphologic studies for localizing arteriosclerotic plaques in the circumference of coronary arteries] Strunk W, et al. **Z Kardiol** 1990 Apr;79(4):273–8 (Eng. Abstr.) (Ger)

[The internal mammary artery as a graft material for coronary artery bypass surgery. Histopathologic and biochemical studies of its atherosclerotic changes] Kobayashi H. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):889–900 (Eng. Abstr.) (Jpn)

[Prevention of coronary atherosclerosis. (V). Prevalence of non–stenotic atheromatous rigidity in men accidentally killed in Mexico City] Luna–Castaños G, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):449–54 (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

Persistent impairment of endothelium–dependent relaxation to acetylcholine and progression of atherosclerosis following 6 weeks of cholesterol feeding in the rabbit. Jayakody L, et al. **Can J Physiol Pharmacol** 1989 Nov; 67(11):1454–60

Flow patterns and spatial distribution of atherosclerotic lesions in human coronary arteries. Asakura T, et al. **Circ Res** 1990 Apr;66(4):1045–66

Paradoxical narrowing of atherosclerotic coronary arteries induced by increases in heart rate [see comments] Nabel EG, et al. **Circulation** 1990 Mar;81(3):850–9 Comment in: Circulation 1990 Mar;81(3):1147–50.

Estrogen modulates responses of atherosclerotic coronary arteries. Williams JK, et al. **Circulation** 1990 May; 81(5):1680–7

Responses of angiographically normal human coronary arteries to intracoronary injection of acetylcholine by age and segment. Possible role of early coronary atherosclerosis [see comments] Yasue H, et al. **Circulation** 1990 Feb; 81(2):482–90 Comment in: Circulation 1990 Feb;81(2):697–9.

Alterations of beta–adrenoceptor mediated relaxations of atherosclerotic human coronary arteries. Berkenboom G, et al. **Eur Heart J** 1989 Nov;10 Suppl F:92–6

Angiographic assessment of human coronary artery endothelial function by measurement of endothelium–dependent vasodilation. Bossaller C, et al. **Eur Heart J** 1989 Nov;10 Suppl F:44–8

Control of shear stress in the epicardial coronary arteries of humans: impairment by atherosclerosis [comment] Bing RJ. **J Am Coll Cardiol** 1989 Nov 1;14(5):1200–1 Comment on: J Am Coll Cardiol 1989 Nov 1;14(5):1193–9.

Effect of cocaine on coronary artery dimensions in atherosclerotic coronary artery disease: enhanced vasoconstriction at sites of significant stenoses. Flores ED, et al. **J Am Coll Cardiol** 1990 Jul;16(1):74–9

Endothelial cell dysfunction: an emerging endocrinopathy linked to coronary disease [editorial; comment] Healy B. **J Am Coll Cardiol** 1990 Aug;16(2):357–8 Comment on: J Am Coll Cardiol 1990 Aug;16(2):349–56.

Large coronary arteries in humans are responsive to changing blood flow: an endothelium–dependent mechanism that fails in patients with atherosclerosis [see comments] Nabel EG, et al. **J Am Coll Cardiol** 1990 Aug;16(2):349–56 Comment in: J Am Coll Cardiol 1990 Aug;16(2):357–8.

Control of shear stress in the epicardial coronary arteries of humans: impairment by atherosclerosis [see comments] Vita JA, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1193–9 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1200–1.

The influence of heart rate on coronary artery atherosclerosis. Kaplan JR, et al. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S100–2; discussion S103

Stress and the heart: biobehavioral aspects of sudden cardiac death. Frank C, et al. **Psychosomatics** 1990 Summer; 31(3):255–64 (75 ref.)

[Atherosclerosis and endothelium–derived relaxing factor] Bossaller C, et al. **Med Klin** 1990 Feb;85 Suppl 1:13–8 (43 ref.) (Ger)

[Effect of intracoronary and intravenous administration of propranolol on coronary vasomotility at rest and during exercise] Bortone A, et al. **Cardiologia** 1989 Aug; 34(8):679–88 (Eng. Abstr.) (Ita)

[Functional state of the vascular wall in patients with coronary arteriosclerosis and different types of reactions to psycho– emotional stress] Sokolov EI, et al. **Kardiologiia** 1990 Apr;30(4):69–72 (Eng. Abstr.) (Rus)

[Relation between microcirculatory disorders and coronary circulation in patients with a history of myocardial infarction (clinico– angiographic study)] Tepliakov AT, et al. **Kardiologiia** 1990 Apr;30(4):18–22 (Eng. Abstr.) (Rus)

[Characteristics of the development of congestive heart failure in patients with post–infarction cardiosclerosis and arrhythmia] Zharov EI, et al. **Kardiologiia** 1989 Oct; 29(10):79–83 (Eng. Abstr.) (Rus)

[Clinical and angiographic expression of myocardial ischemia in stable angina as a function of its coronary reserve] Salcedo Arruti A, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):153–61 (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

Diet, atherosclerosis, and fish oil. Connor WE, et al. **Adv Intern Med** 1990;35:139–71 (100 ref.)

Drug therapy and the prevention of atherosclerosis in humans. Superko HR. **Am J Cardiol** 1989 Oct 3; 64(13):31G–38G (72 ref.)

The lipid clinic and its functions. Moorjani S, et al. **Can J Cardiol** 1989 Nov–Dec;5(8):VIII

The role of exercise in the primary and secondary prevention of coronary atherosclerotic heart disease. Sadlo HB, et al. **Cardiovasc Clin** 1990;20(3):177–90 (65 ref.)

Possible and up–to–now not–exploited treatment of restenosis [letter; comment] Beranek J. **Circulation** 1989 Dec; 80(6):1924 Comment on: Circulation 1989 Feb;79(2):460–2.

Improving coronary vein graft results. Stewart WJ. **Cleve Clin J Med** 1990 May;57(3):217–8

The effects of taurine on atherosclerosis development in cholesterol–fed rabbits. Petty MA, et al. **Eur J Pharmacol** 1990 May 3;180(1):119–27

Retardation of angiographic progression of coronary artery disease by nifedipine. Results of the International Nifedipine Trial on Antiatherosclerotic Therapy (INTACT). INTACT Group Investigators. Lichtlen PR, et al. **Lancet** 1990 May 12;335(8698):1109–13

Lifestyle changes and heart disease [letter] Ornish D, et al. **Lancet** 1990 Sep 22;336(8717):741–2

[Improved life expectancy by prevention of atherosclerosis. Results of intervention studies for treatment of lipid metabolism disorders] Richter WO, et al. **Versicherungsmedizin** 1989 Sep 1;41(5):162–5 (Eng. Abstr.) (Ger)

[Improvement of coronary prognosis by reducing LDL–cholesterol] Wolfram G. **Versicherungsmedizin** 1990 Jun 1;42(3):88–91 (42 ref.) (Eng. Abstr.) (Ger)

[Prevention of atherosclerosis in young people. Guidelines for an intervention strategy] Dal Palù C, et al. **G Ital Cardiol** 1989 Sep;19(9):800–10; discussion 811–9 (95 ref.) (Ita)

[Cardiovascular effects of omega–3 fatty acids: its significance in preventing arteriosclerosis and coronary disease] Ribeiro LG, et al. **Arq Bras Cardiol** 1989 Apr; 52(4):217–25 (53 ref.) (Por)

[Early prevention of coronary cardiopathy (editorial)] Balaguer Vintró I. **Rev Clin Esp** 1989 Nov;185(7):339–40 (Spa)

RADIOGRAPHY

Coronary angiographic ruptured atheromatous plaque as a predictor of future progression of stenosis. Nagatomo Y, et al. **Am Heart J** 1990 Jun;119(6):1244–53

A new method of scoring coronary angiograms to reflect extent of coronary atherosclerosis and improve correlation with major risk factors. Sullivan DR, et al. **Am Heart J** 1990 Jun;119(6):1262–7

Alcohol consumption, serum lipids and severity of angiographically determined coronary artery disease. Handa K, et al. **Am J Cardiol** 1990 Feb 1;65(5):287–9

Stenosis in a coronary collateral artery—a case report. Van den Heuvel P, et al. **Angiology** 1990 Jun;41(6):498–501

Prediction of angiographic change in native human coronary arteries and aortocoronary bypass grafts. Lipid and nonlipid factors [see comments] Blankenhorn DH, et al. **Circulation** 1990 Feb;81(2):470–6 Comment in: Circulation 1990 Feb;81(2):694–6.

Impact of compensatory enlargement of atherosclerotic coronary arteries on angiographic assessment of coronary artery disease. Stiel GM, et al. **Circulation** 1989 Dec; 80(6):1603–9

Relationship between coronary risk factor and arteriographic feature of coronary atherosclerosis. Hiyamuta K, et al. **Jpn Circ J** 1990 Apr;54(4):442–7

RADIONUCLIDE IMAGING

Indium–111–labeled LDL: a potential agent for imaging atherosclerotic disease and lipoprotein biodistribution. Rosen JM, et al. **J Nucl Med** 1990 Mar;31(3):343–50

[Radionuclide ventriculography in the diagnosis of ischemic heart disease in initial coronary atherosclerosis] Mil'ko VI, et al. **Med Radiol (Mosk)** 1989 Oct;34(10):6–8 (Rus)

RADIOTHERAPY

[Effect of laser irradiation on arteriosclerotic changes in coronary arteries. Preliminary report] Opolski G, et al. **Pol Arch Med Wewn** 1987 Mar;77(3):83–6 (Eng. Abstr.) (Pol)

SURGERY

Retrieval of vein graft suture fragments with directional coronary atherectomy: a note of caution. Kahn JK, et al. **Am Heart J** 1990 Sep;120(3):692–6

Reoperation for coronary atherosclerosis. Changing practice in 2509 consecutive patients. Loop FD, et al. **Ann Surg** 1990 Sep;212(3):378–85; discussion 385–6

Successful coronary artery bypass grafting for high–risk left main coronary artery atherosclerosis after cardiac transplantation. Copeland JG, et al. **Ann Thorac Surg** 1990 Jan;49(1):106–10

Concomitant vascular procedures in conjunction with myocardial revascularization: all or none? A report of a case. Hoy FB, et al. **Can J Surg** 1989 Nov;32(6):442–4

Directional atherectomy. New approaches for treatment of obstructive coronary and peripheral vascular disease. Hinohara T, et al. **Circulation** 1990 Mar;81(3 Suppl):IV79–91

A 20–year experience in coronary artery reoperation. Loop FD. **Eur Heart J** 1989 Dec;10 Suppl H:78–84

Coronary ostial stenosis. Barner HB, et al. **Eur J Cardiothorac Surg** 1988;2(2):106–12

Reperfusion through balloon catheter to minimize myocardial infarction during the interval between failed percutaneous transluminal coronary angioplasty and emergency coronary artery bypass grafting. Kusachi S, et al. **Heart Vessels** 1989; 5(1):59–63

Combined percutaneous coronary atherectomy and coronary angioplasty: experience in 19 consecutive patients. Bell MR, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1146–50

Recent developments in coronary atherectomy. Abben R, et al. **J La State Med Soc** 1990 May;142(5):33–8

[Reoperation for aortocoronary bypass] Van Damme H, et al. **Acta Chir Belg** 1989 Sep–Oct;89(5):237–45 (Eng. Abstr.) (Fre)

[Coronary atherectomy using a Rotablator] Fourrier JL. **Ann Cardiol Angeiol (Paris)** 1989 Sep 30;38(7 Pt 2):505–8 (Eng. Abstr.) (Fre)

[Effect of laser irradiation on atherosclerosis vascular segments in relation to wave length and pulse width] Haase KK, et al. **Z Kardiol** 1989 Nov;78(11):701–6 (Eng. Abstr.) (Ger)

[A case report of A–C bypass surgery in coronary atherosclerosis with anomalous origin of left coronary artery] Satokawa H, et al. **Kokyu To Junkan** 1990 Mar; 38(3):283–7 (14 ref.) (Eng. Abstr.) (Jpn)

[Concomitant coronary artery bypass and cholecystectomy: a case report] Hoshino R, et al. **Kyobu Geka** 1989 Nov; 42(12):1043–6 (Eng. Abstr.) (Jpn)

[Arteria gastroepiploica dextra in coronary surgery. Complete revascularization in angina pectoris] Almdahl SM, et al. **Tidsskr Nor Laegeforen** 1990 Apr 30; 110(11):1328–30 (Eng. Abstr.) (Nor)

[Surgical treatment of patients with combined lesions of the coronary and brachiocephalic arteries] Goriunov VS. **Kardiologiia** 1990 Apr;30(4):119–21 (32 ref.) (Rus)

THERAPY

Short– and long–term outcome of percutaneous transluminal coronary angioplasty in chronic dialysis patients. Kahn JK, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):484–9

Inadvertent "atherectomy" during ostial right coronary artery angioplasty. Lasala JM, et al. **Am Heart J** 1990 Aug; 120(2):423–4

Risk factors for progression of atherosclerosis six months after balloon angioplasty of coronary stenosis. Benchimol D, et al. **Am J Cardiol** 1990 Apr 15;65(15):980–5

Percutaneous coronary laser angioplasty using quick short bursts of laser thermal energy for chronic total occlusions. Chan MC, et al. **Am J Cardiol** 1989 Oct 15;64(14):940–2

Initial angiographic results in ablation of atherosclerotic plaque by percutaneous coronary excimer laser angioplasty without subsequent balloon dilatation. Karsch KR, et al. **Am J Cardiol** 1989 Dec 1;64(19):1253–7

Transluminal atherectomy of saphenous vein aortocoronary bypass grafts. Kaufmann UP, et al. **Am J Cardiol** 1990 Jun 15;65(22):1430–3

Comparison of dissection rates and angiographic results following directional coronary atherectomy and coronary angioplasty. Rowe MH, et al. **Am J Cardiol** 1990 Jul 1; 66(1):49–53

Adjuvant therapy for intracoronary stents. Investigations in atherosclerotic swine. Rodgers GP, et al. **Circulation** 1990 Aug;82(2):560–9

Newer concepts in myocardial revascularization. Gilmore RM. **J La State Med Soc** 1990 May;142(5):22–3

Can lifestyle changes reverse coronary heart disease? The Lifestyle Heart Trial. Ornish D, et al. **Lancet** 1990 Jul 21; 336(8708):129–33

[Directional coronary atherectomy; initial Dutch experiences with a new percutaneous revascularization procedure] **Rensing BJ, et al. Ned Tijdschr Geneeskd** 1990 May 12; 134(19):962–7 (Eng. Abstr.) **(Dut)**

[Prospects in the treatment of stenosis of the coronary arteries] **Lablanche JM. Ann Cardiol Angeiol (Paris)** 1989 Dec 30;38(10):617–21 (Eng. Abstr.) **(Fre)**

[Modification of the atherogenic risk factor Lp(a) by supplementary fish oil administration in patients with moderate physical training] **Herrmann W, et al. Med Klin** 1989 Sep 15;84(9):429–33 (Eng. Abstr.) **(Ger)**

[Double filtration plasmapheresis in the treatment of vascular complications of hyperlipidemia] **Candrina R, et al. Recenti Prog Med** 1990 Apr;81(4):282–6 (Eng. Abstr.) **(Ita)**

[Transluminal coronary angioplasty using ultrasound] **Monteverde Grether C, et al. Arch Inst Cardiol Mex** 1990 Jan–Feb;60(1):27–38 (Eng. Abstr.) **(Spa)**

CORONARY ARTERY BYPASS

The changing psychosocial profile of patients before and after coronary artery bypass surgery: a preliminary report with the enlarged Bortner-scale. **Weiss M, et al. Act Nerv Super (Praha)** 1989 Oct;31(3):209–11

Perioperative intra-aortic balloon counterpulsation in cardiosurgery: a retrospective study. **Lauwers E, et al. Acta Anaesthesiol Belg** 1990;41(1):41–5

Changes in the arterial to end-tidal PCO2 differences during coronary artery bypass grafting. **Fletcher R, et al. Acta Anaesthesiol Scand** 1989 Nov;33(8):656–9

The influence of pancuronium and vecuronium combined with balanced anaesthesia on haemodynamics and myocardial oxygen balance. **Günnicker M, et al. Acta Anaesthesiol Scand** 1990 Jul;34(5):327–34

Different activation patterns in the plasma kallikrein–kinin and complement systems during coronary bypass surgery. **Kongsgaard UE, et al. Acta Anaesthesiol Scand** 1989 Jul; 33(5):343–7

Cyanide release from sodium nitroprusside during coronary bypass in hypothermia. **Lundquist P, et al. Acta Anaesthesiol Scand** 1989 Nov;33(8):686–8

Effects of various ventilation modes on immunocompetence in surgical patients. **Perttilä J, et al. Acta Anaesthesiol Scand** 1989 Jul;33(5):348–52

Value of isometric handgrip test in studying effects of coronary artery bypass grafting on left ventricular function. **Mäntysaari M, et al. Acta Cardiol** 1990;45(3):249–53

Changes in the kallikrein–kinin–system after different dose regimen of aprotinin during cardiopulmonary bypass operation. **Heller W, et al. Adv Exp Med Biol** 1989; 247B:43–8

One-year outcome after therapy with tissue plasminogen activator: report from the Thrombolysis and Angioplasty in Myocardial Infarction trial. **Califf RM, et al. Am Heart J** 1990 Apr;119(4):777–85

Spontaneous thrombolysis in a subocclude saphenous vein graft. **Dangoisse V, et al. Am Heart J** 1990 Feb;119(2 Pt 1):394–6

Massive aneurysm of the left main coronary artery. **Hawkins JW, et al. Am Heart J** 1990 Jun;119(6):1406–8

Morphologic findings in saphenous veins used as coronary arterial bypass conduits for longer than 1 year: necropsy analysis of 53 patients, 123 saphenous veins, and 1865 five-millimeter segments of veins. **Kalan JM, et al. Am Heart J** 1990 May;119(5):1164–84

Late follow-up of 781 patients undergoing percutaneous transluminal coronary angioplasty or coronary artery bypass grafting for an isolated obstruction in the left anterior descending coronary artery. **Kramer JR, et al. Am Heart J** 1989 Dec;118(6):1144–53

Delayed recovery of revascularized myocardium after referral for cardiac transplantation. **Luu M, et al. Am Heart J** 1990 Mar;119(3 Pt 1):668–70

Update on mechanical intervention in acute myocardial infarction. **Vlay SC. Am Heart J** 1990 Sep;120(3):734–8

Coronary angioplasty for chronic total occlusion reduces the need for subsequent coronary bypass surgery. **Warren RJ, et al. Am Heart J** 1990 Aug;120(2):270–4

Comparison of exercise test responses before and after either percutaneous transluminal coronary angioplasty or coronary artery bypass grafting. **Dubach P, et al. Am J Cardiol** 1989 Nov 1;64(16):1039–41 (30 ref.)

Mechanism of acute myocardial infarction in patients with prior coronary artery bypass grafting and therapeutic implications. **Grines CL, et al. Am J Cardiol** 1990 Jun 1; 65(20):1292–6

Usefulness of angioplasty during acute myocardial infarction in patients with prior coronary artery bypass grafting. **Kahn JK, et al. Am J Cardiol** 1990 Mar 15;65(11):698–702

Outcome following emergency coronary artery bypass grafting for failed elective balloon coronary angioplasty in patients with prior coronary bypass. **Kahn JK, et al. Am J Cardiol** 1990 Aug 1;66(3):285–8

Saphenous vein graft angioplasty in a teenager. **Kahn JK, et al. Am J Cardiol** 1990 Jan 15;65(3):259–60

Transluminal atherectomy of saphenous vein aortocoronary bypass grafts. **Kaufmann UP, et al. Am J Cardiol** 1990 Jun 15;65(22):1430–3

Acute intervention during myocardial infarction in patients with prior coronary bypass surgery. **Kavanaugh KM, et al. Am J Cardiol** 1990 Apr 1;65(13):924–6

Relation of silent myocardial ischemia after coronary artery bypass grafting to angiographic completeness of revascularization and long-term prognosis. **Kennedy HL, et al. Am J Cardiol** 1990 Jan 1;65(1):14–22

Cause of acute myocardial infarction late after successful coronary artery bypass grafting. **Little WC, et al. Am J Cardiol** 1990 Mar 15;65(11):808–10

Upright bicycle exercise echocardiography after coronary artery bypass grafting. **Sawada SG, et al. Am J Cardiol** 1989 Nov 15;64(18):1123–9

Positron emission tomography using fluorine-18 deoxyglucose in evaluation of coronary artery bypass grafting. **Tamaki N, et al. Am J Cardiol** 1989 Oct 15; 64(14):860–5

Antihypertensive and anti-ischemic effects of nicardipine and nitroprusside in patients undergoing coronary artery bypass grafting. **van Wezel HB, et al. Am J Cardiol** 1989 Oct 17; 64(15):22H–27H

Comparison of intravenous nicardipine and nitroglycerin to control systemic hypertension after coronary artery bypass grafting. **Vecht RJ, et al. Am J Cardiol** 1989 Oct 17; 64(15):19H–21H

Changing use of coronary angioplasty and coronary bypass surgery in the treatment of chronic coronary artery disease. **Weintraub WS, et al. Am J Cardiol** 1990 Jan 15;65(3):183–8

Occlusion of aortocoronary vein grafts in association with bovine pericardium. **Shapira N, et al. Am J Cardiovasc Pathol** 1989;3(1):87–90

Placing patients in the queue for coronary revascularization: evidence for practice variations from an expert panel process. **Naylor CD, et al. Am J Public Health** 1990 Oct; 80(10):1246–52

Pre-bypass myocardial ischaemia in patients undergoing coronary artery surgery. **Davies MJ, et al. Anaesth Intensive Care** 1990 Feb;18(1):53–7

Impairment of left ventricular diastolic function during coronary artery bypass grafting. **Wehlage DR, et al. Anaesthesia** 1990 Jul;45(7):549–51

Management of low cardiac output syndrome after cardiac surgery using enoximone. **White DA, et al. Anaesthesia** 1990 May;45(5):386–9

Contrast echocardiography: a method to visualize changes in regional myocardial perfusion in the dog model for CABG surgery [see comments] **Aronson S, et al. Anesthesiology** 1990 Feb;72(2):295–301 Comment in: Anesthesiology 1990 Feb;72(2):219–21.

Comparison of brachial and radial arterial pressure monitoring in patients undergoing coronary artery bypass surgery. **Bazaral MG, et al. Anesthesiology** 1990 Jul; 73(1):38–45

Preoperative plasmapheresis in patients undergoing cardiac surgery procedures. **Boldt J, et al. Anesthesiology** 1990 Feb; 72(2):282–8

Postoperative myocardial infarction documented by technetium pyrophosphate scan using single-photon emission computed tomography: significance of intraoperative myocardial ischemia and hemodynamic control [see comments] **Cheng DC, et al. Anesthesiology** 1989 Dec;71(6):818–26 Comment in: Anesthesiology 1989 Dec;71(6):815–7.

Effect of angiotensin converting enzyme inhibition on blood pressure and renal function during open heart surgery. **Colson P, et al. Anesthesiology** 1990 Jan;72(1):23–7

Intravenous labetalol versus sodium nitroprusside for treatment of hypertension postcoronary bypass surgery. **Cruise CJ, et al. Anesthesiology** 1989 Dec;71(6):835–9

Preservation of platelet function during trimethaphan infusion. **Hines R. Anesthesiology** 1990 May;72(5):834–7

Nitrous oxide does not induce myocardial ischemia in patients with ischemic heart disease and poor ventricular function. **Mitchell MM, et al. Anesthesiology** 1989 Oct;71(4):526–34

Intraoperative contrast echocardiography: a direct approach to measure regional myocardial perfusion [comment] **Smith PK, et al. Anesthesiology** 1990 Feb;72(2):219–21 Comment on: Anesthesiology 1990 Feb;72(2):295–301.

Comparison of transesophageal echocardiographic and scintigraphic estimates of left ventricular end-diastolic volume index and ejection fraction in patients following coronary artery bypass grafting. **Urbanowicz JH, et al. Anesthesiology** 1990 Apr;72(4):607–12

Right ventricular response to hypercarbia after cardiac surgery. **Viitanen A, et al. Anesthesiology** 1990 Sep; 73(3):393–400

Early detection of silent ischemia after bypass grafting. **Exadactylos N, et al. Angiology** 1989 Dec;40(12):1048–51

Percutaneous angioplasty of totally occluded coronary vein bypass grafts: case histories. **Mosseri M, et al. Angiology** 1990 Jan;41(1):44–52

Ketanserin in the treatment of systemic hypertension during and following coronary artery bypass surgery. **van der Starre PJ, et al. Angiology** 1989 Nov;40(11):1001–10

Coronary artery bypass in patients with impaired left ventricular function. **Wong JW, et al. Ann Acad Med Singapore** 1990 Jan;19(1):34–6

Left main coronary artery obstruction: surgical experience with 93 patients. **Wong JW, et al. Ann Acad Med Singapore** 1990 Jan;19(1):37–40

Results of reoperations for coronary artery disease. **Verkkala K, et al. Ann Chir Gynaecol** 1989;78(4):282–6

Antiplatelet or anticoagulant therapy after coronary artery bypass surgery. A meta-analysis of clinical trials. **Henderson WG, et al. Ann Intern Med** 1989 Nov 1; 111(9):743–50

Gender, coronary artery disease, and coronary bypass surgery [editorial] **Wenger NK. Ann Intern Med** 1990 Apr 15;112(8):557–8

Importance of precordial electrocardiogram monitoring during coronary artery bypass grafting [letter] **Bahadir I, et al. Ann Thorac Surg** 1990 Jan;49(1):169–70

Acute preoperative plasmapheresis and established blood conservation techniques. **Boldt J, et al. Ann Thorac Surg** 1990 Jul;50(1):62–8

Coronary artery bypass grafting without splenectomy [letter] **Bowman GA. Ann Thorac Surg** 1990 Aug;50(2):330–1

Retrograde coronary sinus cardioplegia in redo aortocoronary bypass [letter; comment] **Calhoun TR, et al. Ann Thorac Surg** 1990 Apr;49(4):687–8 Comment on: Ann Thorac Surg 1988 Oct;46(4):389–90.

Surgical standby for percutaneous transluminal coronary angioplasty: a survey of patterns of practice [see comments] **Cameron DE, et al. Ann Thorac Surg** 1990 Jul;50(1):35–9 Comment in: Ann Thorac Surg 1990 Jul;50(1):3–4.

Successful coronary artery bypass grafting for high-risk left main coronary artery atherosclerosis after cardiac transplantation. **Copeland JG, et al. Ann Thorac Surg** 1990 Jan;49(1):106–10

Impairment in right ventricular performance after left ventricular aneurysm operation [letter; comment] **Durand PG, et al. Ann Thorac Surg** 1989 Dec;48(6):888–9 Comment on: Ann Thorac Surg 1988 Nov;46(5):542–8.

Coronary artery bypass grafting with unanticipated fibrosing mediastinitis. **Holman WL, et al. Ann Thorac Surg** 1990 Feb;49(2):321–2

Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina. **Johnson JA, et al. Ann Thorac Surg** 1990 Aug;50(2):297–8

Cerebral vasoreactivity to carbon dioxide during cardiopulmonary perfusion at normothermia and hypothermia [see comments] **Johnsson P, et al. Ann Thorac Surg** 1989 Dec;48(6):769–75 Comment in: Ann Thorac Surg 1989 Dec;48(6):752–4.

Combined coronary revascularization and splenectomy [published erratum appears in Ann Thorac Surg 1990 Sep;50(3):514] **Koike R, et al. Ann Thorac Surg** 1989 Dec; 48(6):853–4

Cardiac function with glucose-insulin-potassium solution [letter; comment] **Moulton AL, et al. Ann Thorac Surg** 1990 Jun;49(6):1025–6 Comment on: Ann Thorac Surg 1989 Oct;48(4):484–9.

Carotid and aortic arch endarterectomy using hypothermic arrest with coronary bypass. **Nishida H, et al. Ann Thorac Surg** 1989 Dec;48(6):865–6

Early bypass operation after acute myocardial infarction [comment] **Ochsner JL. Ann Thorac Surg** 1989 Dec; 48(6):750–1 Comment on: Ann Thorac Surg 1989 Dec;48(6):757–62; discussion 762–3.

Risks of blood exposure to the cardiac surgical team. **Pate JW. Ann Thorac Surg** 1990 Aug;50(2):248–50

Determinants of pulmonary function in patients undergoing coronary bypass operations. **Shapira N, et al. Ann Thorac Surg** 1990 Aug;50(2):268–73

Coronary artery bypass grafting in patients with calcified ascending aorta: aortic no-touch technique. **Suma H. Ann Thorac Surg** 1989 Nov;48(5):728–30

Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements [see comments] **Taggart DP, et al. Ann Thorac Surg** 1990 Sep;50(3):424–8 Comment in: Ann Thorac Surg 1990 Sep;50(3):345.

Surgical standby for coronary angioplasty [editorial; comment] **Ullyot DJ. Ann Thorac Surg** 1990 Jul;50(1):3–4 Comment on: Ann Thorac Surg 1990 Jul;50(1):35–9.

Extended clinical support with an implantable left ventricular assist device. **McGee MG, et al. ASAIO Trans** 1989 Jul–Sep;35(3):614–6

Left ventricular function in patients with centrifugal left ventricular assist device. **Verani MS, et al. ASAIO Trans** 1989 Jul–Sep;35(3):544–7

Logistic discriminant analysis of lipids and apolipoproteins in a population of coronary bypass patients and the significance of apolipoproteins C-III and E. **Chivot L, et al. Atherosclerosis** 1990 Jun;82(3):205–11

Ultrastructural, immunochemical and electrophoretic study of smooth muscle cells in internal mammary arteries of patients undergoing coronary bypass surgery. **Nikkari ST, et al. Atherosclerosis** 1989 Oct;79(2–3):129–38

Role of a nonsteroidal anti-inflammatory agent, ibuprofen, in coronary revascularization after acute myocardial infarction. **Clement R, et al. Basic Res Cardiol** 1990 Jan–Feb;85(1):55–70

Coronary artery bypass surgery. **Cameron EW, et al. BMJ** 1990 May 12;300(6734):1219–20 (21 ref.)

The Randomised Intervention Treatment of Angina (RITA) Trial protocol: a long term study of coronary angioplasty and coronary artery bypass surgery in patients with angina. **Henderson RA. Br Heart J** 1989 Nov;62(5):411–4

Major complications of coronary arteriography: the place of cardiac surgery [see comments] **Stewart JT, et al. Br Heart J** 1990 Feb;63(2):74–7 Comment in: Br Heart J 1990 Feb;63(2):73.

Premedication determines the circulatory responses to rapid sequence induction with sufentanil for cardiac surgery.

Butterworth JF, et al. **Br J Anaesth** 1989 Sep;63(3):351–3

Hepatic and extrahepatic disposition of propofol in patients undergoing coronary bypass surgery. Lange H, et al. **Br J Anaesth** 1990 May;64(5):563–70

Arterial oxygen saturation following premedication for cardiac surgery. Marjot R, et al. **Br J Anaesth** 1990 Jun; 64(6):737–40

Effects of urapidil, ketanserin and sodium nitroprusside on venous admixture and arterial oxygenation following coronary artery bypass grafting. Möllhoff T, et al. **Br J Anaesth** 1990 Apr;64(4):493–7

Comparison of haemodynamic efficacy of enoximone and dobutamine in coronary surgery patients. Boldt J, et al. **Br J Clin Pract Symp Suppl** 1988 Dec;64:41–5

Effects of enoximone in patients with low ejection fraction undergoing coronary artery bypass graft surgery. Oduro A, et al. **Br J Clin Pract Symp Suppl** 1988 Dec;64:50–2

A comparison of diltiazem, esmolol, nifedipine and nitroprusside therapy of post-CABG hypertension. Boylan JF, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S156

Criteria for the diagnosis of perioperative myocardial infarction in patients undergoing CABG surgery. Duke PC, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S150

Midazolam–ketamine vs sufentanil for rapid sequence induction of anaesthesia for CABG surgery. Gordon AR, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S43

A randomized study of changes in serum cholesterol, triglycerides, high density lipoproteins, and cortisol during cardiac surgery in patients anaesthetised with propofol–sufentanil vs enflurane–sufentanil. Cardiac Anaesthesia Research Group. Hall RI, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S76

Prophylactic lidocaine for postoperative coronary artery bypass patients, a double-blind, randomized trial. King FG, et al. **Can J Anaesth** 1990 Apr;37(3):363–8

Peripheral nerve injuries in cardiac anaesthesia. Merchant RN, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S152

Intranasal nifedipine for post-bypass hypertension—hemodynamics and pharmacokinetics. O'Leary G, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S144

Balloon floatation is more important than flow-direction in positioning "flow-directed" PA catheters. Parlow JL, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S86

Haemodynamic stability with midazolam–ketamine–sufentanil analgesia in cardiac surgical patients. Raza SM, et al. **Can J Anaesth** 1989 Nov; 36(6):617–23

Pharmacokinetics of alfentanil and clinical responses during cardiac surgery. Robbins GR, et al. **Can J Anaesth** 1990 Jan;37(1):52–7

Pharmacokinetics and cardiovascular dynamics of pipecuronium bromide during coronary artery surgery. Wierda JM, et al. **Can J Anaesth** 1990 Mar;37(2):183–91

Pulmonary artery pressures with tension pneumothorax. Yu PY, et al. **Can J Anaesth** 1990 Jul;37(5):584–6

Clinical efficacy of emergency bypass surgery for failed coronary angioplasty. Haraphongse M, et al. **Can J Cardiol** 1990 Jun;6(5):186–90

Desmopressin acetate in uncomplicated coronary artery bypass surgery: a prospective randomized clinical trial [see comments] Hedderich GS, et al. **Can J Surg** 1990 Feb; 33(1):33–6 Comment in: Can J Surg 1990 Feb;33(1):5–6.

Percutaneous transluminal coronary angioplasty: a surgeon's perspective. Brenowitz JB, et al. **Cardiol Clin** 1989 Nov; 7(4):743–7 (25 ref.)

Coronary angioplasty in patients with prior coronary artery bypass surgery: all prior coronary artery bypass surgery patients and patients more than 5 years after coronary bypass surgery. Dorros G, et al. **Cardiol Clin** 1989 Nov; 7(4):791–803 (34 ref.)

Pathology of transluminal balloon angioplasty used in the treatment of coronary heart disease. Waller BF. **Cardiol Clin** 1989 Nov;7(4):749–70 (60 ref.)

Effects of uncomplicated coronary artery bypass graft surgery on global and regional left ventricular function at rest. Study by equilibrium radionuclide angiocardiography. De Nardo D, et al. **Cardiology** 1989; 76(4):285–92

Has multivessel angioplasty displaced surgical revascularization? King SB 3d, et al. **Cardiovasc Clin** 1990; 21(1):123–37; discussion 138–9 (58 ref.)

Release of neuropeptide Y and noradrenaline from the human heart after aortic occlusion during coronary artery surgery. Franco-Cereceda A, et al. **Cardiovasc Res** 1990 Mar; 24(3):242–6

Metabolic and haemodynamic changes in the heart during the early phase of cardiopulmonary bypass: I. Clinical observations. van der Veen FH, et al. **Cardiovasc Res** 1989 Jun;23(6):468–71

Metabolic and haemodynamic changes in the heart during the early phase of cardiopulmonary bypass: II. Animal experiments. van der Veen FH, et al. **Cardiovasc Res** 1989 Jun;23(6):472–7

Effectiveness of the Arani double-loop guiding catheters in angioplasty of aorto-coronary vein grafts. Arani DT, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):136–41

Angioplasty of a large aortocoronary bypass graft utilizing a single oversized balloon catheter. Esente P, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):46–7

Retrograde coronary angioplasty of isolated arterial segments through saphenous vein bypass grafts. Kahn JK, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):88–93

Thrombus aspiration in acute myocardial infarction. Kahn JK, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):54–7

Coronary angioplasty for medically refractory unstable angina in patients with prior coronary bypass surgery. Morrison DA. **Cathet Cardiovasc Diagn** 1990 Jul; 20(3):174–81

Systemic and local saphenous vein graft thrombolysis using a tissue plasminogen activator. Salinger MH, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):198–201

Re: "Percutaneous Transluminal Angioplasty of Stenotic Saphenous Vein Right Coronary Bypass Grafts Utilizing a Peripheral Balloon Dilatation Catheter without a Guiding Catheter" [letter] Wholey M. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):69–70

Prophylaxis for post-perfusion CABG bleeding [letter] Jones RE, et al. **Chest** 1990 Aug;98(2):516–7

Utility of bypass surgery in acute MI [letter] Koshal A, et al. **Chest** 1990 Jun;97(6):1504

Open-heart surgery in a patient with heterozygous alpha 2-antiplasmin deficiency. Perioperative strategies in the first reported case. Shahian DM, et al. **Chest** 1990 Jun; 97(6):1488–90

Immediate revascularization of the heart. Adam M, et al. **Circulation** 1970 May;41(5 Suppl):II73–8

Effects of desmopressin acetate on platelet aggregation, von Willebrand factor, and blood loss after cardiac surgery with extracorporeal circulation. Andersson TL, et al. **Circulation** 1990 Mar;81(3):872–8

Noninvasive determination of coronary artery bypass graft patency by cine magnetic resonance imaging. Aurigemma GP, et al. **Circulation** 1989 Dec;80(6):1595–602

Prediction of angiographic change in native human coronary arteries and aortocoronary bypass grafts. Lipid and nonlipid factors [see comments] Blankenhorn DH, et al. **Circulation** 1990 Feb;81(2):470–6 Comment in: Circulation 1990 Feb;81(2):694–6.

Antiplatelet therapy to prevent coronary artery bypass graft occlusion [comment] Buring JE, et al. **Circulation** 1990 Sep; 82(3):1046–8 Comment on: Circulation 1990 Sep;82(3):765–73.

Vascular prostacyclin is increased in patients ingesting omega-3 polyunsaturated fatty acids before coronary artery bypass graft surgery [see comments] DeCaterina R, et al. **Circulation** 1990 Aug;82(2):428–38 Comment in: Circulation 1990 Aug;82(2):639–42.

Perioperative myocardial infarction after coronary artery bypass surgery. Clinical significance and approach to risk stratification. Force T, et al. **Circulation** 1990 Sep; 82(3):903–12

Percutaneous transluminal coronary angioplasty. Complications and implications [comment] Friesinger GC. **Circulation** 1990 Oct;82(4):1519–22 Comment on: Circulation 1990 Oct;82(4):1203–13.

Saphenous vein graft patency 1 year after coronary artery bypass surgery and effects of antiplatelet therapy. Results of a Veterans Administration Cooperative Study. Goldman S, et al. **Circulation** 1989 Nov;80(5):1190–7

Prevention of early aortocoronary bypass occlusion by low-dose aspirin and dipyridamole. Grupo Español para el Seguimiento del Injerto Coronario (GESIC) [see comments] Sanz G, et al. **Circulation** 1990 Sep;82(3):765–73 Comment in: Circulation 1990 Sep;82(3):1046–8.

Failed elective percutaneous transluminal coronary angioplasty requiring coronary artery bypass surgery. In-hospital and late clinical outcome at 5 years [see comments] Talley JD, et al. **Circulation** 1990 Oct; 82(4):1203–13 Comment in: Circulation 1990 Oct;82(4):1519–22.

Calcium attenuates epinephrine's beta-adrenergic effects in postoperative heart surgery patients. Zaloga GP, et al. **Circulation** 1990 Jan;81(1):196–200

Treatment strategy for coronary artery disease: a balancing act. Dimas A, et al. **Cleve Clin J Med** 1990 Jan–Feb; 57(1):19–21

Does coronary bypass surgery improve long-term survival? Proudfit WL. **Cleve Clin J Med** 1989 Sep;56(6):561–8 (35 ref.)

Improving coronary vein graft results. Stewart WJ. **Cleve Clin J Med** 1990 May;57(3):217–8

Percutaneous transluminal angioplasty in patients greater than or equal to 5 years after their last coronary bypass graft surgery. Dorros G, et al. **Clin Cardiol** 1990 Jun; 13(6):403–8

Coronary revascularization: influence on ventricular arrhythmias. Rotman B, et al. **Clin Cardiol** 1990 Jan; 13(1):11–3

Diagnosis of perioperative myocardial infarction by considering relationship of postoperative electrocardiogram changes and enzyme increases after coronary bypass operation. Griesmacher A, et al. **Clin Chem** 1990 Jun;36(6):883–7

Blood volume after coronary artery bypass grafting. Ivert T, et al. **Clin Physiol** 1989 Dec;9(6):547–54

Diaphragmatic flutter resulting in failure to wean from mechanical ventilator support after coronary artery bypass surgery. Hoffman R, et al. **Crit Care Med** 1990 May; 18(5):499–501

Response of tissue oxygenation to systemic hyperoxia after cardiac surgery. Kuttila K. **Crit Care Med** 1990 Apr; 18(4):369–72

Use of a nasal continuous positive airway pressure mask in the treatment of postoperative atelectasis in aortocoronary bypass surgery. Pinilla JC, et al. **Crit Care Med** 1990 Aug; 18(8):836–40

Effects of argon G-lasing on short-term patency of venous bypass grafts. Wheeler WE, et al. **Curr Surg** 1990 Jul–Aug; 47(4):265–6

Early neurological abnormalities following coronary artery bypass surgery. A prospective study. Strenge H, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(4):277–81

Acute myocardial ischaemia and cardiogenic shock after percutaneous transluminal coronary angioplasty; risk factors for and results of emergency coronary bypass. Bredée JJ, et al. **Eur Heart J** 1989 Dec;10 Suppl H:104–11

Coronary artery bypass surgery vs coronary angioplasty: from antithesis to synthesis. Dimas AP, et al. **Eur Heart J** 1989 Dec;10 Suppl H:85–91

Predictors of perioperative mortality, morbidity and late quality of life in coronary bypass surgery. Huysmans HA, et al. **Eur Heart J** 1989 Dec;10 Suppl H:10–2

Fusarium endocarditis involving aortic valve following coronary artery surgery. Jorens PG, et al. **Eur Heart J** 1990 May;11(5):476–8

Probability of a return to work after either coronary balloon dilatation or coronary bypass surgery. Laird-Meeter K, et al. **Eur Heart J** 1989 Oct;10(10):917–22

Predictive value of computed tomographic determination of the patency rate of aortocoronary venous bypasses in relation to angiographic results. Mühlberger V, et al. **Eur Heart J** 1990 May;11(5):380–8

Contrary effects of acetylcholine on coronary arteries and aortocoronary venous grafts in man. Werner GS, et al. **Eur Heart J** 1989 Nov;10 Suppl F:86–91

A comparison of blood, crystalloid and oxygenated crystalloid cardioplegia solutions on myoglobin and creatine kinase release following cardiac surgery. Gerrish SP, et al. **Eur J Cardiothorac Surg** 1988;2(6):438–41

Reoperation for recurrent angina after aortocoronary bypass surgery. Janardhan T, et al. **Eur J Cardiothorac Surg** 1990; 4(1):29–32

Aortocoronary bypass without extracorporeal circulation: why and when? Laborde F, et al. **Eur J Cardiothorac Surg** 1989;3(2):152–4; discussion 154–5

Prospective evaluation of combined carotid and coronary surgery. Lusiani L, et al. **Eur J Cardiothorac Surg** 1987; 1(1):16–9

Endogenous digoxin-like immunoreactive substance in patients undergoing coronary surgery. Preliminary report. Nashef SA, et al. **Eur J Cardiothorac Surg** 1988;2(5):380–1

Simultaneous extensive extracranial and coronary revascularization. Long-term follow-up up to 13 years. Vermeulen FE, et al. **Eur J Cardiothorac Surg** 1988; 2(2):113–23

Comparative effects of enoximone and theophylline on plasma catecholamines and haemodynamics in cardiosurgical patients. Boldt J, et al. **Eur J Clin Pharmacol** 1990;38(5):431–6

Relaxation technique and postoperative pain in patients undergoing cardiac surgery. Miller KM, et al. **Heart Lung** 1990 Mar;19(2):136–46

Poststernotomy mediastinitis. Rosenbaum GS, et al. **Heart Lung** 1990 Jul;19(4):371–2

Reperfusion through balloon catheter to minimize myocardial infarction during the interval between failed percutaneous transluminal coronary angioplasty and emergency coronary artery bypass grafting. Kusachi S, et al. **Heart Vessels** 1989; 5(1):59–63

Long-term prognosis of Kawasaki disease patients with coronary artery obstruction. Tatara K, et al. **Heart Vessels** 1989;5(1):47–51

A suggested new approach to supraventricular tachydysrhythmia after coronary bypass surgery. Kao W, et al. **Henry Ford Hosp Med J** 1989;37(2):66–8

Aortic valve decalcification revisited. Marty AT, et al. **Indiana Med** 1989 Nov;82(11):880–1

A comparative study of cefamandole and ceftriaxone as prophylaxis in cardiac surgery. Neidhart P, et al. **Infection** 1990 Mar–Apr;18(2):101–4

Rupture of a pseudoaneurysm of a saphenous vein coronary arterial bypass graft presenting with superior caval venous obstruction. Rosin MD, et al. **Int J Cardiol** 1989 Oct; 25(1):121–3

Improved outcome of coronary arterial bypass surgery in a small center after identification and modification of peroperative risk factors. Thomassen A, et al. **Int J Cardiol** 1990 Jan;26(1):15–24

Peri-operative supraventricular arrhythmias in coronary bypass surgery. Yousif H, et al. **Int J Cardiol** 1990 Mar; 26(3):313–8

Use of data registries to evaluate medical procedures. Coronary Artery Surgery Study and the Balloon Valvuloplasty Registry. Davis K. **Int J Technol Assess Health Care** 1990;6(2):203–10

The new phosphodiesterase inhibitor enoximone in patients following cardiac surgery—pharmacokinetics and influence on parameters of coagulation. Boldt J, et al. **Intensive Care Med** 1990;16(1):54–9

Silent myocardial ischemia during exercise testing: prognostic significance and response to coronary artery bypass surgery. Weiner DA. **Isr J Med Sci** 1989 Sep;25(9):492–5

Comparison of coronary hemodynamics in patients with internal mammary artery and saphenous vein coronary artery bypass grafts: a noninvasive approach using combined two-dimensional and Doppler echocardiography

[see comments] Fusejima K, et al. **J Am Coll Cardiol** 1990 Jan;15(1):131–9 Comment in: J Am Coll Cardiol 1990 Jan;15(1):140–2.

Increased plasma beta-thromboglobulin in patients with coronary artery vein graft occlusion: response to low dose aspirin [see comments] Gavaghan TP, et al. **J Am Coll Cardiol** 1990 May;15(6):1250–8 Comment in: J Am Coll Cardiol 1990 May;15(6):1259–60.

Duplex Doppler evaluation of coronary artery and bypass graft flow: a practical clinical tool? [comment] Lighty GW Jr. **J Am Coll Cardiol** 1990 Jan;15(1):140–2 Comment on: J Am Coll Cardiol 1990 Jan;15(1):131–9.

Percutaneous transluminal angioplasty of saphenous vein graft stenosis: long-term follow-up. Platko WP, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1645–50

Risk of preoperative aspirin in patients undergoing coronary artery bypass surgery [editorial; comment] Puga FJ. **J Am Coll Cardiol** 1990 Jan;15(1):21–2 Comment on: J Am Coll Cardiol 1990 Jan;15(1):15–20.

Implications of preoperative administration of aspirin in patients undergoing coronary artery bypass grafting. Department of Veterans Affairs Cooperative Study on Antiplatelet Therapy [see comments] Sethi GK, et al. **J Am Coll Cardiol** 1990 Jan;15(1):15–20 Comment in: J Am Coll Cardiol 1990 Jan;15(1):21–2.

Myocardial salvage after failed coronary angioplasty. Stark KS, et al. **J Am Coll Cardiol** 1990 Jan;15(1):78–82

Incidence and prognostic significance of intraventricular conduction abnormalities after coronary bypass surgery. Tuzcu EM, et al. **J Am Coll Cardiol** 1990 Sep;16(3):607–10

Bidirectional crossover and late outcome after coronary angioplasty and bypass surgery: 8 to 11 year follow-up [see comments] Webb JG, et al. **J Am Coll Cardiol** 1990 Jul;16(1):57–65 Comment in: J Am Coll Cardiol 1990 Jul;16(1):66–7.

Postoperative osteopathic manipulative management of median sternotomy patients. Dickey JL. **J Am Osteopath Assoc** 1989 Oct;89(10):1309–14, 1319–22

Drug interactions: the new phosphodiesterase inhibitor enoximone and the calcium channel blocker nifedipine in coronary surgery patients—influence on hemodynamics and plasma concentrations. Boldt J, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):37–43

Polydioxanone in coronary vascular surgery. Ala-Kulju K, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):754–6

Intra-arterial digital subtraction angiography (DSA) as an outpatient screening method for the follow-up of graft patency in coronary surgery. Boonstra PW, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):764–7

Leukocyte and serum elastase in response to elective surgical trauma. Cohen JR, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):817–20

Effect of peroperative hypertension on 125I-albumin uptake by vein graft media. Kennedy JH, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):985–8

Changes in vein interstitium following distension for aortocoronary bypass. Kennedy JH, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):992–5

Coronary artery surgery in Asian patients. Saldanha RF, et al. **J Cardiovasc Surg (Torino)** 1990 Jan–Feb;31(1):26–30

Coronary artery reoperations. Van Damme H, et al. **J Cardiovasc Surg (Torino)** 1990 May–Jun;31(3):255–62

Middle cerebral artery flow velocity during coronary surgery; influence of clinical variables. van der Linden JA, et al. **J Clin Anesth** 1990 Jan–Feb;2(1):7–15

Hormonal and metabolic responses during coronary artery bypass surgery: role of infused glucose. Werb MR, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1010–8

Bypass coronary surgery. Ostfeld A. **J Clin Epidemiol** 1990; 43(4):412

Single-source outbreak of Candida tropicalis complicating coronary bypass surgery [see comments] Isenberg HD, et al. **J Clin Microbiol** 1989 Nov;27(11):2426–8 Comment in: J Clin Microbiol 1990 May;28(5):1086–7.

Aortocoronary bypass surgery for coronary arterial lesions resulting from Kawasaki disease. Suzuki A, et al. **J Pediatr** 1990 Apr;116(4):567–73

Magnetic resonance imaging of abdominal aortic grafts. Alessi G, et al. **J R Coll Surg Edinb** 1989 Dec;34(6):316–20

Antemortem diagnosis of giant cell aortitis. Mitnick HJ, et al. **J Rheumatol** 1990 May;17(5):708–11

Work before and after coronary artery bypass grafting. Munro WS. **J Soc Occup Med** 1990 Summer;40(2):59–64

Endothelial preservation in human saphenous veins harvested for coronary grafting [letter] [see comments] Barner HB, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):148–9 Comment in: J Thorac Cardiovasc Surg 1990 Jul;100(1):149–50.

Pericardial closure after cardiac operations. An animal study to assess currently available materials with particular reference to their suitability for use after coronary artery bypass grafting. Bunton RW, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):99–107

A comparative clinical study on the effects of cardiopulmonary bypass with different flows and pressures on skeletal muscle cell metabolism in patients undergoing coronary bypass grafting. Del Canale S, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):327–34

Predictors of excessive blood use after coronary artery bypass grafting. A multivariate analysis. Ferraris VA, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):492–7

Prophylactic tranexamic acid decreases bleeding after cardiac operations. Horrow JC, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):70–4

Intraoperative perfusion contrast echocardiography. Initial experience during coronary artery bypass grafting. Kabas JS, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):536–42

Evaluation of postoperative flow capacity of internal mammary artery. Kawasuji M, et al. **J Thorac Cardiovasc Surg** 1990 Apr;99(4):696–702

Endothelial preservation in human saphenous veins [comment] Lawrie GM. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):149–50 Comment on: J Thorac Cardiovasc Surg 1990 Jul;100(1):148–9.

Effects of coronary revascularization on regional wall motion. An intraoperative two-dimensional echocardiographic study. Lazar HL, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):498–505

The importance of age as a predictor of atrial fibrillation and flutter after coronary artery bypass grafting. Leitch JW, et al. **J Thorac Cardiovasc Surg** 1990 Sep;100(3):338–42

The influence of coronary artery disease and bypass grafting on early and late survival after valve replacement for aortic stenosis. Lund O, et al. **J Thorac Cardiovasc Surg** 1990 Sep;100(3):327–37

Beta-adrenergic receptor changes during coronary artery bypass grafting. Mantz J, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):75–81

Triiodothyronine as an inotropic agent after open heart surgery. Novitzky D, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):972–7; discussion 977–8

The third time coronary artery bypass graft: is the risk justified? Owen EW Jr, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):31–4; discussion 34–5

Reoperative coronary surgery. Comparative analysis of 6591 patients undergoing primary bypass and 508 patients undergoing reoperative coronary artery bypass. Salomon NW, et al. **J Thorac Cardiovasc Surg** 1990 Aug; 100(2):250–9; discussion 259–60

Natriuresis during and early after cardiopulmonary bypass: relationship to atrial natriuretic factor, aldosterone, and antidiuretic hormone. Schaff HV, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):979–86

Right gastroepiploic artery for reoperation on the right coronary artery [letter] Shimoyama Y, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):177–8

The internal mammary vein: a new conduit for coronary artery bypass [letter] Stephan Y, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):178–9

Aorta-coronary bypass grafting for bilateral coronary ostial stenosis caused by Takayasu's aortitis [letter] Tanaka K, et al. **J Thorac Cardiovasc Surg** 1990 May;99(5):948–9

Operative transluminal balloon angioplasty. Adjunct to coronary bypass for extended myocardial revascularization of more than 3000 lesions in 1000 patients. Urschel HC Jr, et al. **J Thorac Cardiovasc Surg** 1990 Apr;99(4):581–8; discussion 588–9

Combined coronary artery bypass grafting and bilateral renal revascularization for unstable angina and impeding renal failure. McCready RA, et al. **J Vasc Surg** 1990 Sep; 12(3):241–5

Intraarterial digital subtraction angiography for evaluation of internal mammary artery graft in coronary bypass surgery. Kawasuji M, et al. **Jpn Circ J** 1989 Jul;53(7):773–8

Effects of coronary artery bypass surgery on regions showing persistent defects in thallium myocardial images. Konishi Y, et al. **Jpn Circ J** 1989 Nov;53(11):1356–62

Results of multiple coronary artery bypass grafting in Japanese patients. Suma H, et al. **Jpn Circ J** 1989 Jul; 53(7):716–20

Value of stress thallium-201 emission tomography for predicting improvement after coronary bypass grafting and assessing graft patency. Kureshi SA, et al. **Jpn Heart J** 1989 May;30(3):287–99

Qualitative and quantitative changes in platelets after coronary-artery bypass surgery may help identify thrombotic complications and infections. von Ruecker A, et al. **Klin Wochenschr** 1989 Oct 17;67(20):1042–7

Vascular effects of lignocaine after coronary artery surgery [letter] Chiavarelli M, et al. **Lancet** 1990 May 5; 335(8697):1101–2

Automatic implantable cardioverter defibrillator implantation after previous open heart surgery: subcostal incision and small left anterior thoracotomy. Siclari F, et al. **PACE** 1990 Jun;13(6):715–8

Congenital atresia of the left coronary ostium: diagnosis and surgical treatment. Koh E, et al. **Pediatr Cardiol** 1989 Summer;10(3):159–62

The thin red line. Flexner JM. **Pharos** 1990 Winter; 53(1):17–20

Clinical application of coronary laser angioplasty during coronary bypass surgery. Chen MZ, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(2):65–7

Noninvasive methods in coronary artery disease. Resting STI and exercise tolerance after bypass surgery. Romano M, et al. **Riv Eur Sci Med Farmacol** 1988 Jun;10(3):199–202

Effect of indomethacin on peripheral tissue perfusion after coronary artery bypass surgery. Kuttila K, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):247–51

Is cold, cardioplegic solution harmful to the lungs? Lindberg H, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):241–6

Adenosine-induced increase in graft flow during coronary bypass surgery. Torssell L, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):235–9

A critical perspective on coronary artery disease and coronary bypass surgery. Bates MS. **Soc Sci Med** 1990; 30(2):249–60 (128 ref.)

Analysis of phasic flow patterns of saphenous vein aortocoronary bypass grafts. Gold JP, et al. **Surg Forum** 1978;29:300–2

Changes in coronary artery bypass graft flows with varying arterial carbon dioxide pressure levels. Lewis JW Jr, et al. **Surg Forum** 1978;29:303–6

Effects of nitrous oxide on endocrine stress response and haemodynamic parameters during coronary artery surgery. Adams HA, et al. **Thorac Cardiovasc Surg** 1990 Apr; 38(2):73–8

Clinical evaluation of hypothermic ventricular fibrillation, multi-dose blood cardioplegia, and single-dose Bretschneider cardioplegia in coronary surgery. Beyersdorf F, et al. **Thorac Cardiovasc Surg** 1990 Feb;38(1):20–9

Blood conservation in coronary artery bypass surgery: prediction with assistance of a computer model. Bilfinger TV, et al. **Thorac Cardiovasc Surg** 1989 Dec;37(6):365–8

Predictive value of factors affecting early results and complications in eight years of coronary artery bypass surgery. Ståhle E, et al. **Thorac Cardiovasc Surg** 1989 Dec; 37(6):355–60

Will emergency coronary bypass grafting after failed elective percutaneous transluminal coronary angioplasty prevent myocardial infarction? Tebbe U, et al. **Thorac Cardiovasc Surg** 1989 Oct;37(5):308–12

Abnormalities of thrombomodulin and tissue plasminogen activator in occluded aortocoronary grafts detected by immunohistochemistry. Brody JI, et al. **Trans Assoc Am Physicians** 1988;101:79–87

Reduction of the vein graft occlusion rate after coronary artery bypass surgery by treatment with a thromboxane receptor antagonist. Hacker RW, et al. **Z Kardiol** 1989;78 Suppl 3:48–9

Endothelium-dependent regulatory mechanisms in human coronary bypass grafts: possible clinical implications. Yang Z, et al. **Z Kardiol** 1989;78 Suppl 6:80–4 (48 ref.)

[Personal experience with the use of Bretschneider's solution and the modified St. Thomas solution in cardioplegic protection of the myocardium] Lonský V, et al. **Cesk Fysiol** 1990;39(1):89–93 **(Cze)**

[Predictive characteristics for early mortality in patients on the waiting list for aortocoronary bypass surgery (letter)] Arnold AE, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10; 134(6):304–5 **(Dut)**

[Predictive characteristics for early mortality in patients on the waiting list for aortocoronary bypass surgery] Suttorp MJ, et al. **Ned Tijdschr Geneeskd** 1989 Dec 9; 133(49):2441–5 (Eng. Abstr.) **(Dut)**

[Reoperation for aortocoronary bypass] Van Damme H, et al. **Acta Chir Belg** 1989 Sep–Oct;89(5):237–45 (Eng. Abstr.) **(Fre)**

[Clonidine aggravates the postoperative hemodynamic profile after coronary bypass: randomized, double-blind study] Brusset A, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R215 **(Fre)**

[Clonidine modifies the hemodynamic profile in coronary bypass: double-blind, randomized study] Brusset A, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R214 **(Fre)**

[Coronary bypass without extracorporeal circulation: continuous monitoring of the left ventricular systolic ejection fraction in man] Leclerc D, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R105 **(Fre)**

[Use of nicardipine in the treatment of arterial hypertension during sternotomy in aorto-coronary bypass surgery] Pansard JL, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R90 **(Fre)**

[Comparative study of nifedipine and nicardipine in the treatment of hypertensive crisis after aortocoronary bypass] Pastor C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R92 **(Fre)**

[Comparative postoperative course in coronary bypass: internal mammary versus saphenous vein after the first 6 postoperative hours] Tibourtine O, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R107 **(Fre)**

[Long-term clinical results of coronary surgery. Apropos of 400 patients followed for 5 to 11 years] Cron JP, et al. **Arch Mal Coeur** 1989 Nov;82(11):1855–60 (Eng. Abstr.) **(Fre)**

[Implantation of endoprostheses in aortocoronary bypass. Preliminary experience at the Thoraxcenter of Rotterdam] Leborgne O, et al. **Arch Mal Coeur** 1989 Sep;82(9):1595–9 (Eng. Abstr.) **(Fre)**

[Coronary bypass after thrombolysis] Vacheron A, et al. **Arch Mal Coeur** 1989 Oct;82(10):1741–5 (31 ref.) (Eng. Abstr.) **(Fre)**

[The use of urapidil for the treatment of hypertension during aortocoronary bypass] Marty J, et al. **Can Anesthesiol** 1990 Mar;38(2):119–21 **(Fre)**

[Temporary left ventricular assistance using the Hemopump before coronary bypass during the acute phase of myocardial infarction (letter)] Jegaden O, et al. **Presse Med** 1990 Jan 6–13;19(1):35 **(Fre)**

[The hemodynamic effects of various hydroxyethyl starch solutions in heart surgery patients] Boldt J, et al. **Anaesthesist** 1990 Jan;39(1):6–12 (Eng. Abstr.) **(Ger)**

[Lung inflation or mechanical ventilation in extracorporeal circulation?] Fretschner R, et al. **Anaesthesist** 1989 Oct; 38(10):525–30 (Eng. Abstr.) **(Ger)**

[Ketanserin versus sodium nitroprusside in the treatment of hypertension following coronary surgery. Effect on intrapulmonary right and left shunt and arterial oxygenation] Möllhoff T, et al. **Anaesthesist** 1989 Oct; 38(10):519–24 (Eng. Abstr.) (Ger)

[Continuous measurement of cardiac output based on the Fick principle in cardiac anesthesia] Rieke H, et al. **Anaesthesist** 1990 Jan;39(1):13–21 (Eng. Abstr.) (Ger)

[The effect of sufentanil in high doses on hemodynamics and electroencephalography activity in coronary patients] Stephan H, et al. **Anaesthesist** 1989 Oct;38(10):510–8 (Eng. Abstr.) (Ger)

[Transcranial Doppler sonography during pulsatile and non-pulsatile extracorporeal circulation] Thiel A, et al. **Anaesthesist** 1990 Apr;39(4):226–30 (Eng. Abstr.) (Ger)

[The significance of digoxin-like immunoreactive factor (DLIF) for intensive care medicine] Simon HB, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):235–6 (Eng. Abstr.) (Ger)

[Neurologic complications of coronary bypass surgery—a prospective study] Hornig CR, et al. **Fortschr Neurol Psychiatr** 1990 Feb;58(2):76–83 (Eng. Abstr.) (Ger)

[Blood saving measures in heart surgery] Egloff L, et al. **Helv Chir Acta** 1989 Aug;56(3):399–403 (Eng. Abstr.) (Ger)

[Myocardial oxygen supply in hemodilution in patients with healthy hearts and heart surgery patients] Klövekorn WP. **Infusionstherapie** 1990 Apr;17 Suppl 2:24–7 (30 ref.) (Eng. Abstr.) (Ger)

[Noninvasive assessment of aortocoronary bypass using magnetic resonance tomography] Theissen P, et al. **Nuklearmedizin** 1989 Dec;28(6):234–42 (Eng. Abstr.) (Ger)

[Diagnosis of the aortocoronary bypass—a comparison of MRT and CT] Sandring KH, et al. **Radiol Diagn (Berl)** 1990;31(1):29–34 (Eng. Abstr.) (Ger)

[Quantitative computed tomographic flow measurements of aortocoronary venous bypass grafts. II. Correlation with angiographic measurements] Mühlberger V, et al. **ROFO** 1989 Sep;151(3):278–83 (Eng. Abstr.) (Ger)

[Long-term results of surgical coronary vessel intervention in patients with reduced left ventricular function] Carrel T, et al. **Schweiz Med Wochenschr** 1990 Aug 18; 120(33):1175–9 (Eng. Abstr.) (Ger)

[Remission of a sleep apnea syndrome following aortocoronary bypass surgery] Gugger M, et al. **Schweiz Med Wochenschr** 1989 Aug 19;119(33):1124–7 (Eng. Abstr.) (Ger)

[Does the cardiogoniogram change following revascularization?] Herrmann HJ, et al. **Schweiz Med Wochenschr** 1989 Jul 11;119(27–28):979–83 (Eng. Abstr.) (Ger)

[How long should antithrombotic therapy be continued following aortocoronary bypass surgery?] Pfisterer M, et al. **Schweiz Med Wochenschr** 1989 Oct 28;119(43):1518–20 (Eng. Abstr.) (Ger)

[After-care following heart and thoracic surgery] Stulz P. **Ther Umsch** 1989 Jul;46(7):460–7 (19 ref.) (Eng. Abstr.) (Ger)

[Long-term course of conservatively and surgically treated patients with an intramural heart infarct] Buschhaus J, et al. **Versicherungsmedizin** 1990 Jun 1;42(3):77–9 (Eng. Abstr.) (Ger)

[Prognosis and trends in bypass surgery] Sittaro NA. **Versicherungsmedizin** 1990 Jun 1;42(3):80–3 (Eng. Abstr.) (Ger)

[Preventive drug therapy following coronary bypass surgery or PTCA] Lechleitner P, et al. **Wien Med Wochenschr** 1990 Jun 15;140(10–11):277–8, 281 (Eng. Abstr.) (Ger)

[Care of patients following coronary bypass surgery from the internist's viewpoint] Pachinger O. **Wien Med Wochenschr** 1990 Jun 15;140(10–11):271–2 (Eng. Abstr.) (Ger)

[Comparison of pre- and postoperative findings in patients undergoing aortocoronary bypass surgery] Kästner C, et al. **Z Gesamte Inn Med** 1990 Jun 15;45(11):301–4 (Eng. Abstr.) (Ger)

[Calcium determination, enzyme biochemical and electron microscopy studies of saphenous veins in patients with coronary sclerosis or varicose veins] Seydewitz V, et al. **Z Gesamte Inn Med** 1990 Feb 15;45(4):96–100 (Eng. Abstr.) (Ger)

[The effectiveness of barucainide in supraventricuir and ventricular arrhythmias] Brugger P. **Z Kardiol** 1989 Aug; 78(8):510–8 (Eng. Abstr.) (Ger)

[The effect of urapidil and sodium nitroprusside on intrapulmonary right-left shunt and arterial oxygenation in the treatment of hypertension following coronary surgery] Möllhoff T, et al. **Z Kardiol** 1989 Nov;78(11):732–7 (Eng. Abstr.) (Ger)

[Acute complications in coronary angioplasty: dependence on catheter material and adjuvant medication] Spielberg C, et al. **Z Kardiol** 1990 Jun;79(6):450–4 (Eng. Abstr.) (Ger)

[Doppler echocardiography evaluation of left ventricular function in intra-aortic balloon counterpulsation] Werner GS, et al. **Z Kardiol** 1990 Jan;79(1):8–14 (Eng. Abstr.) (Ger)

[Isotype lymphography findings in sclerotherapy, varicose exeresis and excision of autologous venous transplants for arterial reconstructions] Weindorf N, et al. **Z Lymphol** 1989 Dec;13(2):90–4 (Eng. Abstr.) (Ger)

[Nosocomial infections and sternum osteomyelitis] Warnke H, et al. **Zentralbl Chir** 1990;115(9):563–8 (Eng. Abstr.) (Ger)

[Aortocoronary venous bypass operation in the elderly] Kothe VK, et al. **ZFA** 1989 Sep-Oct;44(5):273–9 (Eng. Abstr.) (Ger)

[Coronary artery bypass in the elderly] Shapira I, et al. **Harefuah** 1990 Mar 15;118(6):360–1 (39 ref.) (Heb)

[Coronary artery surgery—overview] Silberman S, et al. **Harefuah** 1990 Mar 15;118(6):358–60 (12 ref.) (Heb)

[Cardiolite (99m-Tc-isonitrile) SPECT studies in patients prior to coronary bypass surgery] Mester J, et al. **Orv Hetil** 1990 Jan 28;131(4):167–72 (20 ref.) (Eng. Abstr.) (Hun)

[Coronary re-permealization by percutaneous transluminal coronary angiography in 100 patients with ischemic heart disease] Szatmáry László J. **Orv Hetil** 1990 Aug 12; 131(32):1743–7 (Eng. Abstr.) (Hun)

[Doppler velocimetry of the internal mammary artery anastomosed to the anterior descendent coronary artery: a noninvasive analysis of coronary circulation] Ciccone M, et al. **Cardiologia** 1989 Jul;34(7):617–21 (Eng. Abstr.) (Ita)

[Coronary bypass 20 years later] Geraci E. **G Ital Cardiol** 1989 Oct;19(10):942–5 (23 ref.) (Ita)

[Responses of aortocoronary bypass graft flow to nitroglycerin, nifedipine and exercise test: a two-dimensional color Doppler echocardiographic study] Matsumura M, et al. **J Cardiol** 1989 Mar;19(1):9–25 (Eng. Abstr.) (Jpn)

[Long-term managements of patients with coronary artery bypass grafting] Haze K. **J Cardiol Suppl** 1989;22:5 (Jpn)

[Results of coronary artery bypass surgery in patients with spastic angina pectoris] Sakakibara T, et al. **J Cardiol Suppl** 1989;22:14 (Jpn)

[Indication and assessment of coronary artery bypass grafting] Shio K, et al. **J Cardiol Suppl** 1989;22:15–6 (Jpn)

[Quantitative evaluation of myocardial blood flow and myocardial fluoro-deoxyglucose uptake determined by PET before and after aorto-coronary bypass operation in patients with ischemic heart disease] Takahashi A, et al. **Kaku Igaku** 1990 Mar;27(3):227–35 (Eng. Abstr.) (Jpn)

[Effects of nitroglycerin on the graft flow during aortocoronary bypass surgery] Fujiwara T, et al. **Kokyu To Junkan** 1989 Aug;37(8):885–90 (Eng. Abstr.) (Jpn)

[Measurement of blood flow of saphenous vein graft with Doppler catheter] Hirata N, et al. **Kokyu To Junkan** 1989 Dec;37(12):1321–5 (Eng. Abstr.) (Jpn)

[The effect of open heart surgery and an operation on thoracic aneurysm on organs and the prevention of an organ system failure: comparison between the group using ulinastatin and not using group] Nakai Y, et al. **Kokyu To Junkan** 1989 Dec;37(12):1341–6 (Eng. Abstr.) (Jpn)

[A case of coronary artery bypass grafting with right gastroepiploic artery for right coronary artery obstruction associated with aortitis syndrome] Satokawa H, et al. **Kokyu To Junkan** 1990 May;38(5):489–92 (Eng. Abstr.) (Jpn)

[A case report of A-C bypass surgery in coronary atherosclerosis with anomalous origin of left coronary artery] Satokawa H, et al. **Kokyu To Junkan** 1990 Mar; 38(3):283–7 (14 ref.) (Eng. Abstr.) (Jpn)

[Percutaneous transluminal angioplasty in patients with prior coronary artery bypass grafting] Enomoto S, et al. **Kyobu Geka** 1989 Sep;42(10):814–7 (Eng. Abstr.) (Jpn)

[A case of aorto-coronary bypass surgery in a hypophysectomized male patient] Fujita Y, et al. **Kyobu Geka** 1990 Feb;43(2):139–42 (Eng. Abstr.) (Jpn)

[The effect of pulsatile perfusion on aortocoronary bypass grafting] Gohra H, et al. **Kyobu Geka** 1989 Nov; 42(12):974–9; discussion 979–81 (Eng. Abstr.) (Jpn)

[Concomitant coronary artery bypass and cholecystectomy: a case report] Hoshino R, et al. **Kyobu Geka** 1989 Nov; 42(12):1043–6 (Eng. Abstr.) (Jpn)

[Transesophageal echocardiography during coronary bypass surgery] Kawasuji M, et al. **Kyobu Geka** 1990 Jan; 43(1):31–5 (Eng. Abstr.) (Jpn)

[Coronary artery bypass surgery with internal mammary artery grafts: clinical and angiographic results] Kitamura S, et al. **Kyobu Geka** 1989 Jul;42(8 Suppl):609–16 (Eng. Abstr.) (Jpn)

[PTCA and coronary artery bypass operation prior to subsequent surgery of gastric cancer in patients with coronary artery disease] Kohno H, et al. **Kyobu Geka** 1989 Nov;42(12):1005–8 (Eng. Abstr.) (Jpn)

[Comparative study of aorto-coronary bypass surgery using internal mammary artery grafts and saphenous vein grafts] Moriya H, et al. **Kyobu Geka** 1990 Jan;43(1):13–8 (Eng. Abstr.) (Jpn)

[Spasm in aortocoronary vein graft] Okada Y, et al. **Kyobu Geka** 1989 Sep;42(10):873–5 (7 ref.) (Eng. Abstr.) (Jpn)

[Clinical evaluation of surgical treatment of children with Kawasaki disease] Saga T, et al. **Kyobu Geka** 1989 Jul; 42(7):510–5; discussion 516–8 (Eng. Abstr.) (Jpn)

[Coronary artery bypass grafting using gastroepiploic artery] Suma H, et al. **Kyobu Geka** 1989 Jul;42(8 Suppl):630–6 (Eng. Abstr.) (Jpn)

[Hamilton's operation in Bland-White-Garland syndrome] Tanaka O, et al. **Kyobu Geka** 1990 Jan;43(1):69–72 (Eng. Abstr.) (Jpn)

[Epidural morphine as a sedative after open heart surgery: in cases of coronary artery bypass graft] Usui K, et al. **Kyobu Geka** 1990 Jan;43(1):19–23 (Eng. Abstr.) (Jpn)

[Aorto-coronary bypass grafting in a patient with neutrocytopenia] Yamada T, et al. **Kyobu Geka** 1989 Jul; 42(7):583–6 (Eng. Abstr.) (Jpn)

[A comparison of hemodynamic changes with sufentanil-O2 and fentanyl-O2 anesthesia for coronary bypass grafting] Ikeda K, et al. **Masui** 1989 Nov;38(11):1469–74 (Eng. Abstr.) (Jpn)

[Anesthetic management of coronary artery bypass graft operation in a patient with hypothyroidism] Ishida K, et al. **Masui** 1990 Apr;39(4):496–9 (Eng. Abstr.) (Jpn)

[Changes in catecholamine and immunoglobulin during anesthesia for cardiac surgery—a comparison of valve replacement and aorto-coronary bypass surgery] Isshiki A, et al. **Masui** 1989 Dec;38(12):1583–7 (Eng. Abstr.) (Jpn)

[Anesthetic experience of a patient with essential thrombocythemia] Kotani N, et al. **Masui** 1990 Jan; 39(1):114–7 (Eng. Abstr.) (Jpn)

[Anesthesia for aorto-coronary bypass graft surgery in children with Kawasaki disease] Ohe Y, et al. **Masui** 1989 Jun;38(6):777–83 (Eng. Abstr.) (Jpn)

[A case report of anesthesia for concomitant right pneumonectomy and coronary artery bypass operations] Shibuya N, et al. **Masui** 1990 Jun;39(6):782–5 (Eng. Abstr.) (Jpn)

[Cardiac output monitoring by impedance cardiography in cardiac surgery] Shimizu H, et al. **Masui** 1990 Apr; 39(4):508–12 (Eng. Abstr.) (Jpn)

[Intraoperative assessment of the transmural myocardial blood flow distribution using myocardial contrast echocardiography: preliminary report] Hirata N, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):298 (Jpn)

[Implications of preoperative angiography and coronary artery bypass grafting for patients with combined coronary artery and great vessels diseases] Kazui T, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1463–6 (Eng. Abstr.) (Jpn)

[The internal mammary artery as a graft material for coronary artery bypass surgery. Histopathologic and biochemical studies of its atherosclerotic changes] Kobayashi H. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):889–900 (Eng. Abstr.) (Jpn)

[Surgical treatments for coronary artery disease associated with cancer: a consideration of simultaneous procedure of coronary artery revascularization and surgery for cancer] Takahashi T, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec; 90(12):2037–43 (Eng. Abstr.) (Jpn)

[Evaluation of the effects of coronary artery bypass grafting on left ventricular function in patients with previous myocardial infarction] Imagawa H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):551–9 (Eng. Abstr.) (Jpn)

[Coronary artery bypass grafting in a patient with Sjögren's syndrome and other autoimmune diseases] Kurisu K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct; 37(10):2207–11 (Eng. Abstr.) (Jpn)

[Complications of IABP in the postoperative management of open-heart surgery—a review of 108 cases in the last 10 years] Mashiko K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov; 37(11):2345–50 (Eng. Abstr.) (Jpn)

[Coronary artery disease and the results of coronary bypass surgery in diabetics] Matsui K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jan;38(1):16–21 (Eng. Abstr.) (Jpn)

[Evaluation of aortocoronary bypass operation using a He-Ne laser flowmeter—comparison between internal mammary artery grafts and saphenous vein grafts] Mizutani T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):389–95 (Eng. Abstr.) (Jpn)

[Quantitative analysis of myocardial revascularization on left ventricular diastolic function] Morishita K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jul;37(7):1353–8 (Eng. Abstr.) (Jpn)

[Significance of coronary artery bypass grafting to totally occluded left anterior descending coronary artery] Nagaoka H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Dec;37(12):2477–82 (Eng. Abstr.) (Jpn)

[A case report of emergency coronary artery bypass grafting (CABG) to an elderly high risk patient with severe left ventricular dysfunction] Nomura F, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug;37(8):1625–9 (Eng. Abstr.) (Jpn)

[Results of sequential aorto-coronary bypass grafting using saphenous vein graft] Oku T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):613–7 (Eng. Abstr.) (Jpn)

[Key grafts in emergency aortocoronary bypass surgery] Sakakibara T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jun;38(6):1006–10 (Eng. Abstr.) (Jpn)

[A case report of graft-versus-host reaction after aortocoronary bypass—a clinicopathological study] Souma T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun; 37(6):1257–61 (Eng. Abstr.) (Jpn)

[Clinical experience of bovine internal mammary artery graft (BIOFLOW) for coronary artery bypass surgery] Suma

H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):1965–8 (Eng. Abstr.) **(Jpn)**

[A simultaneous operation of A–C bypass and replacement of abdominal aortic aneurysm—a successful case] Ueda T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):1979–83 (Eng. Abstr.) **(Jpn)**

[Quantitative assessment of myocardial viability following coronary artery bypass grafting using exercise thallium-201 myocardial single photon emission computed tomography and left ventricular regional wall motion] Yamamoto N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Dec; 37(12):2468–76 (Eng. Abstr.) **(Jpn)**

[Left coronary ostial stenosis in aortitis syndrome—patch mounted graft technique for proximal anastomosis] Yokoyama M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):692–7 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of angina pectoris in elderly patients] Lundbom J, et al. **Tidsskr Nor Laegeforen** 1989 Sep 20; 109(26):2646–7 (Eng. Abstr.) **(Nor)**

[Changes in circulating blood volume in patients with ischemic heart disease during and after surgery with extracorporeal circulation] Koziorowska B. **Folia Med Cracov** 1989;30(3–4):171–90 (Eng. Abstr.) **(Pol)**

[Myocardial revascularization surgery in an 87-year-old patient. A case report] Wajngarten M, et al. **Arq Bras Cardiol** 1989 Sep;53(3):171–4 (Eng. Abstr.) **(Por)**

[Conditioning factors of complex ventricular extra-systole in the late postoperative period in coronary surgery] Mendes M, et al. **Rev Port Cardiol** 1988 Mar–Apr; 7(2):175–9 (Eng. Abstr.) **(Por)**

[Dynamics of the level of plasma vasopressin and its role in the regulation of water-electrolyte metabolism in patients following aortocoronary bypass] Abbakumov VV, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):3–6 (Eng. Abstr.) **(Rus)**

[Changes in hemodynamic indices during perfusion with pulsatile and steady currents in aortocoronary bypass surgery] Divonin AL, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):6–10 (Eng. Abstr.) **(Rus)**

[Intraoperative dynamics of the regional function of the myocardium during aortocoronary bypass] Sandrikov VA, et al. **Grud Serdechnososudistaia Khir** 1990;(2):38–41 (Eng. Abstr.) **(Rus)**

[Extracorporeal circulation without an oxygenator] Shabalkin BV, et al. **Grud Serdechnososudistaia Khir** 1990; (3):69–70 **(Rus)**

[Effect of anaprilin electrophoresis using sinusoidal modulated current on central hemodynamics in patients after surgical treatment of ischemic heart disease] Kniazeva TA, et al. **Kardiologiia** 1989 Aug;29(8):50–3 (Eng. Abstr.) **(Rus)**

[Sanatorium-resort treatment in a low-mountain region of patients with ischemic heart disease after aortocoronary bypass] Mkrtchian RI, et al. **Kardiologiia** 1989 Dec; 29(12):22–5 (Eng. Abstr.) **(Rus)**

[Dynamics of clinical and functional parameters in patients with ischemic heart disease after aortocoronary bypass surgery] Paliushchinskaia N, et al. **Kardiologiia** 1989 Dec; 29(12):18–22 (Eng. Abstr.) **(Rus)**

[Computerized tomography in evaluating the function of aortocoronary shunts] Rabkin IKh, et al. **Kardiologiia** 1989 Aug;29(8):12–5 (Eng. Abstr.) **(Rus)**

[Aortocoronary shunting in the early period after myocardial infarction] Solo'vev GM, et al. **Kardiologiia** 1989 Aug; 29(8):9–11 (Eng. Abstr.) **(Rus)**

[Repeated resection of heart aneurysm with plication of aneurysm of the interventricular septum and aortocoronary shunting] Petrovskii BV, et al. **Khirurgiia (Mosk)** 1989 Sep; (9):135–6 **(Rus)**

[Simultaneous revascularization of the heart and lower limbs in a patient with wide-spread atherosclerosis] Belov IuV, et al. **Klin Khir** 1989;(7):64 **(Rus)**

[Aortocoronary bypass in patients with ischemic heart disease with persistent angina pectoris] Solov'ev GM, et al. **Sov Med** 1989;(12):57–61 **(Rus)**

[Post-infarction stenocardia: comparative evaluation of the results of surgical and conservative treatment] Ioseliani DG, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):39–43 (Eng. Abstr.) **(Rus)**

[Indications for aortocoronary bypass in patients with combined lesions of the coronary arteries, abdominal aorta and blood vessels of the legs] Kertsman VP, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):19–23 (Eng. Abstr.) **(Rus)**

[Endovascular laser methods in the treatment of arteriosclerotic cardiovascular diseases] Petrosian IuS, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):32–9 (Eng. Abstr.) **(Rus)**

[Function of the myocardium after revascularization and the patency of coronary shunts] Azovtsev RA, et al. **Vestn Khir** 1989 Dec;144(12):7–12 (Eng. Abstr.) **(Rus)**

[Aortocoronary bypass and electrodestruction of the atrioventricular node in a patient with ischemic heart disease complicated by paroxysmal atrial fibrillation] Vinogradov AG, et al. **Vestn Khir** 1990 Mar;144(3):35–6 **(Rus)**

[Assessment of the work capacity of patients with ischemic heart disease having undergone aortocoronary shunting] Bykorez VA, et al. **Vrach Delo** 1989 Oct;(10):68–70 (Eng. Abstr.) **(Rus)**

[Morphologic changes of venous autografts before aortocoronary shunt surgery] Grigor'eva NN, et al. **Vrach Delo** 1990 Jan;(1):78–80 (Eng. Abstr.) **(Rus)**

[A case of myocardial infarct developing 1 year after aortocoronary shunting] Kurashvili LR. **Vrach Delo** 1989 Dec;(12):15–6 **(Rus)**

[Spontaneous coronary artery dissection treated by bypass surgery] Moor E, et al. **Lakartidningen** 1990 Feb 14; 87(7):485–6 **(Swe)**

ADVERSE EFFECTS

Histopathological study of aorto-coronary bypass grafts with special reference to fibrin deposits on grafted saphenous veins. Yutani C, et al. **Acta Pathol Jpn** 1989 Jul;39(7):425–32

Coronary dissection after aortocoronary bypass surgery associated with amyloidosis and atherosclerosis of the epicardial vessels. de Albuquerque CP, et al. **Am Heart J** 1990 May;119(5):1197–9

Circulatory collapse following coronary bypass surgery: multivessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine. Gurley JC, et al. **Am Heart J** 1990 May;119(5):1194–5

Value of thallium-201 reinjection after delayed SPECT imaging for predicting reversible ischemia after coronary artery bypass grafting. Ohtani H, et al. **Am J Cardiol** 1990 Aug 15;66(4):394–9

Hypertensive crisis during coronary vessel surgery. van Wezel HB. **Ann Fr Anesth Reanim** 1989;8(5):585–6, 545–6 **(Eng, Fre)**

Candida mediastinitis after a cardiac operation. Glower DD, et al. **Ann Thorac Surg** 1990 Jan;49(1):157–63 (47 ref.)

Selective approach to sternal closure after exploration for hemorrhage following coronary artery bypass. Johnson JA, et al. **Ann Thorac Surg** 1990 May;49(5):771–4

Effects of intraoperative plasmapheresis on blood loss in cardiac surgery. Jones JW, et al. **Ann Thorac Surg** 1990 Apr;49(4):585–9; discussion 590

Bacteremia and sternal infection after coronary artery bypass grafting. Kohman LJ, et al. **Ann Thorac Surg** 1990 Mar; 49(3):454–7

J. Maxwell Chamberlain memorial paper. Sternal wound complications after isolated coronary artery bypass grafting: early and late mortality, morbidity, and cost of care. Loop FD, et al. **Ann Thorac Surg** 1990 Feb; 49(2):179–86; discussion 186–7

Steal phenomenon caused by a parallel branch of the internal mammary artery. Schmid C, et al. **Ann Thorac Surg** 1990 Sep;50(3):463–4

Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia. Seitelberger R, et al. **Ann Thorac Surg** 1990 Jan; 49(1):61–7; discussion 67–8

The danger in skin grafting the bare mediastinum after sternectomy for postcoronary bypass dehiscence. Shafir R, et al. **Ann Thorac Surg** 1989 Oct;48(4):584–6

The pathogenesis of atherosclerosis in aortocoronary saphenous vein grafts [letter; comment] Kern WH. **Arch Pathol Lab Med** 1989 Dec;113(12):1322–3 Comment on: Arch Pathol Lab Med 1989 Jul;113(7):772–6.

Iatrogenic aorto-sinus of valsalva fistula: angiographic and cine computerized tomography delineation. Blaker AM, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):186–9

Total inferior vena cava thrombosis following coronary artery bypass surgery. Rama BN, et al. **Cathet Cardiovasc Diagn** 1990 Apr;19(4):237–9

Iatrogenic internal mammary artery to coronary vein fistula. de Marchena E, et al. **Chest** 1990 Jan;97(1):251–2

Hemodynamic compromise associated with air trapping following coronary artery bypass surgery. Dries DJ, et al. **Chest** 1990 Apr;97(4):1002–3

Recovery after unilateral phrenic injury associated with coronary artery revascularization. Wilcox PG, et al. **Chest** 1990 Sep;98(3):661–6

New bundle branch block after coronary artery bypass grafting—evaluation by CK-MB isoenzyme analysis and transoesophageal echocardiography. Hake U, et al. **Eur Heart J** 1990 Jan;11(1):59–64

Risk factors for myocardial infarction during coronary artery bypass graft surgery. Oysel N, et al. **Eur Heart J** 1989 Sep;10(9):806–15 (50 ref.)

Experiences with closed chest, temporary atrio-arterial, ventricular bypass with a centrifugal pump after open heart surgery. Geiran O, et al. **Eur J Cardiothorac Surg** 1989; 3(1):44–51

Diagnosis of perioperative myocardial necrosis following coronary artery surgery—a reappraisal of isoenzyme analysis. Hake U, et al. **Eur J Cardiothorac Surg** 1990; 4(2):79–84

CABG in the elderly: the Glasgow experience. Johnston FA, et al. **Gerontology** 1989;35(2–3):165–70

Chest wall pain after aortocoronary bypass surgery using internal mammary artery graft: a new pain syndrome? Mailis A, et al. **Heart Lung** 1989 Nov;18(6):553–8

Hospital reimbursement patterns among patients with surgical wound infections following open heart surgery. Boyce JM, et al. **Infect Control Hosp Epidemiol** 1990 Feb;11(2):89–93

Prevalence and prognostic significance of complex ventricular arrhythmias after coronary arterial bypass graft surgery. Huikuri HV, et al. **Int J Cardiol** 1990 Jun; 27(3):333–9

Acute myocardial dysfunction and recovery: a common occurrence after coronary bypass surgery. Breisblatt WM, et al. **J Am Coll Cardiol** 1990 May;15(6):1261–9

Complications of saphenous vein harvesting following coronary artery bypass surgery. Lavee J, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):989–91

Pituitary apoplexy following coronary artery bypass surgery. Shapiro LM. **J Surg Oncol** 1990 May;44(1):66–8

Catastrophic consequences of internal mammary artery hypoperfusion. Jones EL, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):902–7

The risk of vitreous hemorrhage caused by coronary artery bypass grafting in proliferative diabetic retinopathy [letter] Small KW, et al. **J Thorac Cardiovasc Surg** 1990 Jan; 99(1):176–7

Neurobehavioral outcomes in cardiac operations. A prospective controlled study. Townes BD, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 1):774–82

Serum iron, zinc, copper, selenium, and bromide concentrations after coronary bypass operation. Antila H, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb; 14(1):85–9

Risk of cardiac surgery in patients with prior stroke. Rorick MB, et al. **Neurology** 1990 May;40(5):835–7

An analysis of factors predisposing to neurological injury in patients undergoing coronary bypass operations. Shaw PJ, et al. **Q J Med** 1989 Jul;72(267):633–46

Indications for and risks in reoperation for coronary artery disease. Verkkala K, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(1):1–6

Invasive Aspergillus infections complicating coronary artery bypass grafting. Weber SF, et al. **South Med J** 1990 May; 83(5):584–8

Evolution of acute chest syndrome in sickle cell trait: an ultrastructural and light microscopic study. Hasleton PS, et al. **Thorax** 1989 Dec;44(12):1057–8

Enhanced effective fibrinolysis following the neutralization of heparin in open heart surgery increases the risk of post-surgical bleeding. Gram J, et al. **Thromb Haemost** 1990 Apr 12;63(2):241–5

Increased whole blood viscosity during coronary artery bypass surgery. Studies to evaluate the effects of soluble fibrin and poloxamer 188. Hunter RL, et al. **Thromb Haemost** 1990 Feb 19;63(1):6–12

Reocclusion/restenosis after coronary artery bypass surgery, percutaneous transluminal coronary angioplasty and thrombolysis. Simoons ML. **Z Kardiol** 1989;78 Suppl 3:35–41 (36 ref.)

[Myocardial infarction after coronary bypass surgery. Associated factors and prognosis] Dubost A, et al. **Arch Mal Coeur** 1990 Jun;83(7):947–52 (30 ref.) (Eng. Abstr.) **(Fre)**

[Survival and causes of secondary mortality in patients undergoing coronary bypass. Comparison with a same age control population] Cron JP, et al. **Presse Med** 1990 Jan 27;19(3):117–21 (Eng. Abstr.) **(Fre)**

[Acute ischemia of the legs caused by white clot syndrome after cardiac surgery] Tremblay B, et al. **Presse Med** 1990 Jun 16;19(24):1137–8 (9 ref.) (Eng. Abstr.) **(Fre)**

[The hemodynamic effects of a treatment with beta-receptor blockers during coronary surgery. A comparison between acebutolol and esmolol] Kling D, et al. **Anaesthesist** 1990 May;39(5):264–8 (Eng. Abstr.) **(Ger)**

[A deficient intervention against risk factors among patients with coronary vascular surgery] Israelsson B, et al. **Lakartidningen** 1989 Nov 22;86(47):4121–2, 4124 **(Swe)**

ECONOMICS

Determinants of hospital charges for coronary artery bypass surgery: the economic consequences of postoperative complications. Taylor GJ, et al. **Am J Cardiol** 1990 Feb 1;65(5):309–13

The Ottawa Heart Institute: it's good, but can we afford it? [letter] **Can Med Assoc J** 1990 Sep 1;143(5):363–5

The Ottawa Heart Institute: it's good, but can we afford it? [see comments] Morgan PP, et al. **Can Med Assoc J** 1990 Mar 15;142(6):616–20 Comment in: Can Med Assoc J 1990 Jul 1;143(1):12.

Comparison of costs of percutaneous transluminal coronary angioplasty and coronary bypass surgery for patients with angina pectoris. van den Brand M, et al. **Eur Heart J** 1990 Aug;11(8):765–71

Learning by doing in CABG surgery [see comments] Cromwell J, et al. **Med Care** 1990 Jan;28(1):6–18 Comment in: Med Care 1990 Jan;28(1):3–5.

On saving time and saving money in CABGs [editorial; comment] Flood AB. **Med Care** 1990 Jan;28(1):3–5 Comment on: Med Care 1990 Jan;28(1):6–18.

INSTRUMENTATION

Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting. Videm V, et al. **Ann Thorac Surg** 1990 Sep;50(3):387–91

Transfusion using a cell saver apparatus during surgery for coronary artery disease: is it beneficial? Hall RI, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S155

Transient radial nerve injury related to the use of a self retaining retractor for internal mammary artery dissection. Guzman F, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):1015–6

METHODS

Angiographic evaluation of vasomotor properties of internal

mammary arteries before and after coronary artery bypass grafting in men. Hanet C, et al. **Am J Cardiol** 1990 Apr 1;65(13):918–21

Semiselective angiography of the internal mammary arteries as a preparation for coronary bypass surgery. Krijne R, et al. **Am J Cardiol** 1990 Aug 1;66(3):377–8

Elevated hemidiaphragm after cardiac operations: incidence, prognosis, and relationship to the use of topical ice slush [see comments] Curtis JJ, et al. **Ann Thorac Surg** 1989 Dec; 48(6):764–8 Comment in: Ann Thorac Surg 1990 Jul;50(1):166–7.

Internal mammary artery grafts [letter; comment] de la Rivière AB, et al. **Ann Thorac Surg** 1990 Jan;49(1):166 Comment on: Ann Thorac Surg 1989 Mar;47(3):421–7.

Left thoracotomy approach for coronary artery bypass grafting in patients with pericardial adhesions. Gandjbakhch I, et al. **Ann Thorac Surg** 1989 Dec; 48(6):871–3

Improved cardiac function with glucose–insulin–potassium after aortocoronary bypass grafting [see comments] Gradinac S, et al. **Ann Thorac Surg** 1989 Oct;48(4):484–9 Comment in: Ann Thorac Surg 1990 Jun;49(6):1025–6.

Saphenous vein graft valves: "the bad guys" [comment] Mills NL. **Ann Thorac Surg** 1989 Nov;48(5):613–4 Comment on: Ann Thorac Surg 1989 Nov;48(5):624–7.

Nonreversed saphenous vein grafts for coronary artery bypass grafting [see comments] Molina JE. **Ann Thorac Surg** 1989 Nov;48(5):624–7 Comment in: Ann Thorac Surg 1989 Nov;48(5):613–4.

Experimental aortocoronary artery bypass grafting using a CO2 laser on the dog: acute experiment. Nakata S, et al. **Ann Thorac Surg** 1989 Nov;48(5):628–31

Coronary artery bypass in a 15–year–old girl with pseudoxanthoma elasticum. Nishida H, et al. **Ann Thorac Surg** 1990 Mar;49(3):483–5

Arteriosclerosis of the gastroepiploic and internal thoracic arteries. Suma H, et al. **Ann Thorac Surg** 1990 Sep; 50(3):413–6

Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery. Takeuchi Y, et al. **Ann Thorac Surg** 1990 Aug;50(2):294–6

Multiple free (aorta–coronary) gastroepiploic artery grafting. Tanimoto Y, et al. **Ann Thorac Surg** 1990 Mar;49(3):479–80

Coronary artery bypass in idiopathic thrombocytopenia without splenectomy. Thompson LD, et al. **Ann Thorac Surg** 1989 Nov;48(5):721–2

Inferior epigastric artery as a conduit in myocardial revascularization: the alternative free arterial graft. Vincent JG, et al. **Ann Thorac Surg** 1990 Feb;49(2):323–5

Crossovers in coronary artery bypass grafting trials [letter; comment] Weinstein GS, et al. **Ann Thorac Surg** 1990 May; 49(5):847–8 Comment on: Ann Thorac Surg 1989 Oct;48(4):465–6.

Reduction of myocardial injury with verapamil before aortic cross–clamping. Weinstein GS, et al. **Ann Thorac Surg** 1990 Mar;49(3):419–23

Aortocoronary bypass grafting with hydrophilic small caliber vascular grafts. Tomizawa Y, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):199–202

Continuous rt–PA infusion as a salvage strategy to maintain patency of the infarct artery; safety of high cumulative dose and subsequent emergency coronary artery angioplasty and bypass surgery. Barbash GI, et al. **Biomed Pharmacother** 1990;44(3):185–9

Coronary artery bypass surgery [letter] Bryan AJ, et al. **BMJ** 1990 Jun 16;300(6739):1588

Coronary artery bypass surgery [letter] Pellinen T, et al. **BMJ** 1990 Jun 30;300(6741):1725–6

Coronary surgery: an update. Treasure T. **Br J Hosp Med** 1990 Jun;43(6):459–63

A complication of prolonged urokinase infusion into a chronically occluded aortocoronary saphenous vein graft. Andersen RL, et al. **Cathet Cardiovasc Diagn** 1989 Sep; 18(1):20–2

Balloon embolization of latrogenic aortocoronary arteriovenous fistula. Graeb DA, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):58–62

Effect of sternotomy and coronary bypass surgery on postoperative pulmonary mechanics. Comparison of internal mammary and saphenous vein bypass grafts. Berrizbeitia LD, et al. **Chest** 1989 Oct;96(4):873–6

Gastroepiploic artery free graft for coronary bypass. Beretta L, et al. **Eur J Cardiothorac Surg** 1990;4(6):323–7; discussion 328

Coronary bypass with substrate–enhanced cardioplegia versus non–cardioplegic technique for early revascularization in acute infarction. Bonchek LI, et al. **Eur J Cardiothorac Surg** 1990;4(3):124–9

Diagnosis and management of the coronary–subclavian steal syndrome. Van Son JA, et al. **Eur J Cardiothorac Surg** 1989;3(6):565–7

Preservation of myocardial energy–rich phosphates by retrograde application of Bretschneider cardioplegia during aortocoronary bypass surgery. Walter PJ, et al. **Eur J Cardiothorac Surg** 1988;2(1):25–30

The challenges of OMT in postsurgical management of cardiac patients [editorial] Rogers FJ, et al. **J Am Osteopath Assoc** 1989 Oct;89(10):1274, 1277

The in situ right gastroepiploic artery graft via the superior mesenteric artery [letter] Suma H, et al. **J Thorac Cardiovasc Surg** 1989 Dec;98(6):1150

Cerebral dysfunction following extracorporeal circulation for aortocoronary bypass surgery: no differences in neuropsychological outcome after pulsatile versus nonpulsatile flow. Henze T, et al. **Thorac Cardiovasc Surg** 1990 Apr;38(2):65–8

Coronary artery bypass surgery: current practice in the United Kingdom. Angelini GD, et al. **Thorax** 1989 Sep; 44(9):721–4

[Ultrastructural changes in the saphenous vein removed during aorto–coronary bypass] Sassi C, et al. **Ann Chir** 1989;43(8):632–5 (Eng. Abstr.) (Fre)

[Use of brachial venous grafts in coronary bypass surgery] Dervanian P, et al. **J Chir (Paris)** 1990 May;127(5):247–51 (Eng. Abstr.) (Fre)

[Therapy of perioperative myocardial damage in aortocoronary venous bypass surgery] Butzeck J, et al. **Z Gesamte Inn Med** 1990 Jun 15;45(11):309–12 (Eng. Abstr.) (Ger)

[Effects of the site of distal anastomosis on the branch flow of coronary arteries in an A–C bypass grafting] Nakajima H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct; 37(10):2134–41 (Eng. Abstr.) (Jpn)

[Free arterial graft in coronary artery bypass surgery] Suma H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jan; 38(1):140–5 (Eng. Abstr.) (Jpn)

[Heart surgery without blood transfusion] Ovrum E, et al. **Tidsskr Nor Laegeforen** 1990 Feb 28;110(6):694–7 (Eng. Abstr.) (Nor)

[Evaluation of late results of aortocoronary bypass in patients with ischemic heart disease in relation to the bypass function] Martsinkiavichius A, et al. **Grud Serdechnososudistaia Khir** 1990;(3):17–20 (Eng. Abstr.) (Rus)

[Aortocoronary bypass in progressive stenocardia] Solov'ev GM, et al. **Grud Serdechnososudistaia Khir** 1990;(3):14–7 (Eng. Abstr.) (Rus)

[Current state of the problem of surgical treatment of ischemic heart disease] Belov IuV. **Kardiologiia** 1989 Aug; 29(8):104–11 (90 ref.) (Rus)

[Surgical treatment of patients with combined lesions of the coronary and brachiocephalic arteries] Goriunov VS. **Kardiologiia** 1990 Apr;30(4):119–21 (32 ref.) (Rus)

[Aortocoronary shunting in patients with newly developed stenocardia] Solov'ev GM, et al. **Khirurgiia (Mosk)** 1990 May;(5):16–9 (Eng. Abstr.) (Rus)

[Various aspects of the organization of medical services for patients with ischemic heart disease in the USSR] Chekanov VS, et al. **Vestn Khir** 1989 Jul;143(7):112–5 (Rus)

[Use of both internal mammary arteries; not everything is advantageous] de la Llana R, et al. **Rev Esp Cardiol** 1989 Nov;42(9):593–6 (Eng. Abstr.) (Spa)

MORTALITY

Ten–year survival of patients with mild angina or myocardial infarction without angina: a comparison of medical and surgical treatment. Proudfit WL, et al. **Am Heart J** 1990 Apr;119(4):942–8

Coronary artery bypass surgery in the elderly. Saw HS. **Ann Acad Med Singapore** 1990 Jan;19(1):45–50

Increased mortality of women in coronary artery bypass surgery: evidence for referral bias. Khan SS, et al. **Ann Intern Med** 1990 Apr 15;112(8):561–7

Cardiac surgery in patients age 80 years or older. Merrill WH, et al. **Ann Surg** 1990 Jun;211(6):772–5; discussion 775–6

Long–term survival after postinfarction bypass operation: early versus late operation [see comments] Floten HS, et al. **Ann Thorac Surg** 1989 Dec;48(6):757–62; discussion 762–3 Comment in: Ann Thorac Surg 1989 Dec;48(6):750–1.

Risk assessment in urgent/emergent coronary artery surgery. Edwards FH, et al. **Chest** 1990 May;97(5):1125–9

Coronary artery disease in the elderly [editorial] Conti CR. **Clin Cardiol** 1990 Apr;13(4):237–8

Demographic changes in coronary artery bypass surgery and its effect on mortality and morbidity. Acinapura AJ, et al. **Eur J Cardiothorac Surg** 1990;4(4):175–81

Emergency surgical revascularization following coronary angioplasty: evaluation of operative results by isoenzyme analysis and electrocardiography. Hake U, et al. **Eur J Cardiothorac Surg** 1989;3(6):549–53

Influence of incremental preoperative risk factors on the perioperative outcome of patients undergoing emergency versus urgent coronary artery bypass grafting. Hake U, et al. **Eur J Cardiothorac Surg** 1989;3(2):162–8

Coronary artery bypass grafting in patients 70 years of age and older. Early and late results. Ivert T, et al. **Eur J Cardiothorac Surg** 1989;3(1):52–7

Cardiac surgery in the octogenarian. Naunheim KS, et al. **Eur J Cardiothorac Surg** 1990;4(3):130–5

Multivariate analysis of operative mortality and late outcome after coronary bypass surgery. Mattila P, et al. **J Cardiovasc Surg (Torino)** 1990 Mar–Apr;31(2):220–4

Perioperative morbidity and mortality of coronary artery surgery after the age of 70 years. Noyez L, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):981–4

Aortocoronary bypass results: a discriminant multivariate analysis of risk factors of operative mortality. Ottino G, et al. **J Cardiovasc Surg (Torino)** 1990 Jan–Feb;31(1):20–5

Favorable results of coronary artery bypass grafting in patients older than 75 years. Horvath KA, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):92–5; discussion 95–6

Predictive characteristics for early mortality in patients awaiting coronary artery bypass [letter] Suttorp MJ, et al. **Lancet** 1990 Aug 4;336(8710):310–1

Coronary artery bypass surgery: emerging trends in mortality. Macmanus Q, et al. **Va Med** 1990 Mar; 117(3):102–4

Changing perspectives: coronary artery disease [editorial] Vetrovec GW. **Va Med** 1990 Mar;117(3):118–9

[Current operative risk in emergency coronary surgery. Experience of the last 5 years] Leguerrier A, et al. **Ann Chir** 1990;44(2):77–83 (Eng. Abstr.) (Fre)

[Late cardiac events of coronary bypass surgery] Kito Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun; 37(6):1169–73 (Eng. Abstr.) (Jpn)

[Surgery of the coronary vessels in the elderly] Antunes MJ, et al. **Rev Port Cardiol** 1989 Sep;8(9):593–7; discussion 599 (Eng. Abstr.) (Por)

NURSING

Effect of backrest position on mixed venous oxygen saturation in patients with mechanical ventilation after coronary artery bypass surgery. Noll ML, et al. **Heart Lung** 1990 May;19(3):243–51

Timing of preoperative patient teaching. Lepczyk M, et al. **J Adv Nurs** 1990 Mar;15(3):300–6

PSYCHOLOGY

The efficacy of the relaxation response in preparing for cardiac surgery. Leserman J, et al. **Behav Med** 1989 Fall; 15(3):111–7

Preoperative anxiety and myocardial ischaemia: is there a relationship? Jolly D, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S77

Beneficial effects of psychiatric intervention on recovery after coronary artery bypass graft surgery. Schindler BA, et al. **Gen Hosp Psychiatry** 1989 Sep;11(5):358–64

Family needs of patients having coronary artery bypass graft surgery during the intraoperative period. Norheim C. **Heart Lung** 1989 Nov;18(6):622–6

Psychosocial adjustment before and after coronary artery bypass surgery. Stein D, et al. **Int J Psychiatry Med** 1990; 20(2):181–92

Dispositional optimism and recovery from coronary artery bypass surgery: the beneficial effects on physical and psychological well–being. Scheier MF, et al. **J Pers Soc Psychol** 1989 Dec;57(6):1024–40

Prediction of outcome after coronary artery surgery. Bryant B, et al. **J Psychosom Res** 1989;33(4):419–27

The coronary bypass waiting list: a social evaluation. Mulgan R, et al. **N Z Med J** 1990 Aug 8;103(895):371–2

Patients' and spouses' religious problem–solving styles and their physiological health. Yelsma P, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):857–8

REHABILITATION

Adequate global myocardial perfusion provided by a left internal mammary artery. A case report. Wellens F, et al. **Eur J Cardiothorac Surg** 1989;3(5):476–8

Factors related to functional status after coronary artery bypass surgery. Allen JK, et al. **Heart Lung** 1990 Jul; 19(4):337–43

Physical and psychosocial outcomes after coronary artery bypass graft surgery: review of the literature. Allen JK. **Heart Lung** 1990 Jan;19(1):49–55 (37 ref.)

Efficiency of shoulder range of motion exercise in hospitalized patients after coronary artery bypass graft surgery [letter; comment] Weiland AP, et al. **Heart Lung** 1990 May;19(3):321–2 Comment on: Heart Lung 1989 Jul;18(4):364–9.

Management after coronary by–pass graft surgery: a rehabilitation course induces life style changes which may improve long term graft survival. Hoad NA. **J R Army Med Corps** 1989 Oct;135(3):135–8

Effects of cardiac rehabilitation after coronary artery bypass grafting on readmissions, return to work, and physical fitness. A case–control study. Perk J, et al. **Scand J Soc Med** 1990;18(1):45–51

Physiotherapy after coronary artery surgery: are breathing exercises necessary? Jenkins SC, et al. **Thorax** 1989 Aug; 44(8):634–9

[The effect of a cardiac rehabilitation program on return to work] Goeminne HM, et al. **Arch Belg** 1989;47(1–4):70–2 (Eng. Abstr.) (Dut)

[Rehabilitation following aortocoronary bypass surgery or balloon dilatation] Pichler M. **Wien Med Wochenschr** 1990 Jun 15;140(10–11):275–6 (Eng. Abstr.) (Ger)

[Rehabilitation protocol for patients with coronary bypass] Cerri B, et al. **G Ital Cardiol** 1990 Mar;20(3):277–80 (Ita)

[A case of myocardial infarction due to the left main trunk lesion, in which percutaneous coronary recanalization and emergency coronary–aorto bypass graft, and subsequent percutaneous coronary angioplasty were effective not only from a viewpoint of survival but from comeback to social life] Mikuniya A, et al. **Kokyu To Junkan** 1989 Nov; 37(11):1237–42 (Eng. Abstr.) (Jpn)

[Hospital rehabilitation of patient after aortocoronary shunting] Markarian SS, et al. **Klin Med (Mosk)** 1989 Aug; 67(8):132–4 (Rus)

STANDARDS

Audit of coronary angiography and bypass surgery. Gray D, et al. **Lancet** 1990 Jun 2;335(8701):1317–20

Monitoring and evaluation for coronary artery bypass grafts. Klesch BJ. **QRB** 1990 Mar;16(3):125–7

STATISTICS & NUMERICAL DATA

True emergency coronary artery bypass surgery. Edwards FH, et al. **Ann Thorac Surg** 1990 Apr;49(4):603–10; discussion 610–1

Results of internal thoracic artery grafting over 15 years: single versus double grafts. Fiore AC, et al. **Ann Thorac Surg** 1990 Feb;49(2):202–8; discussion 208–9

Crossovers in coronary artery bypass grafting trials: desirable, undesirable, or both? [editorial; comment] [see comments] Fisher LD, et al. **Ann Thorac Surg** 1989 Oct; 48(4):465–6 Comment on: Ann Thorac Surg 1989 Oct;48(4):490–5. Comment in: Ann Thorac Surg 1990 May;49(5):847–8.

The characteristics of coronary artery revascularization in aged patients. Sunamori M, et al. **Jpn J Surg** 1990 Mar; 20(2):163–9

[Number of coronary bypass operations in The Netherlands and other western countries (published erratum appears in Ned Tijdschr Geneeskd 1989 Oct 14;133(41):2056)] Bol P, et al. **Ned Tijdschr Geneeskd** 1989 Sep 23;133(38):1867–9 (Dut)

[Number of operations and mortality in surgery of the heart and large intrathoracic vessels] Huysmans HA. **Ned Tijdschr Geneeskd** 1989 Dec 9;133(49):2427–30 (Dut)

[Number of coronary bypass operations in The Netherlands and other western countries (letter)] Stalenhoef AF, et al. **Ned Tijdschr Geneeskd** 1989 Nov 11;133(45):2255–6 (Dut)

UTILIZATION

Angioplasty: here's the proof [letter] Shiu MF. **Br J Hosp Med** 1990 Jun;43(6):410–1

Coronary bypass graft surgery: reexamining the assumptions. Friedman HS. **J Gen Intern Med** 1990 Jan–Feb;5(1):80–3

The association of payer with utilization of cardiac procedures in Massachusetts [see comments] Wenneker MB, et al. **JAMA** 1990 Sep 12;264(10):1255–60 Comment in: JAMA 1990 Sep 12;264(10):1294–5.

CORONARY ARTERY DISEASE see **CORONARY DISEASE**

CORONARY ARTERY VASOSPASM see **CORONARY VASOSPASM**

CORONARY ATHEROSCLEROSIS see **CORONARY ARTERIOSCLEROSIS**

CORONARY CARE UNITS

Use of tissue plasminogen activator in the coronary care unit for acute closure after coronary angioplasty. Alzarka A, et al. **Chest** 1990 May;97(5):1241–2

The impact of coronary care unit on mortality from acute myocardial infarction in Hong Kong. A prospective randomized controlled study. Hu JS. **Chin Med J [Engl]** 1990 Feb;103(2):101–6

Level of nursing care required by the unstable angina patient. Whalen KL. **Crit Care Med** 1990 May;18(5):505–8

Anxiety transmission in the patient with myocardial infarction. Frederickson K. **Heart Lung** 1989 Nov; 18(6):617–22

Effects of relaxation and music therapy on patients in a coronary care unit with presumptive acute myocardial infarction. Guzzetta CE. **Heart Lung** 1989 Nov; 18(6):609–16

Discharge from a coronary care unit: psychological factors. Sykes DH, et al. **J Psychosom Res** 1989;33(4):477–88

A prospective evaluation of in-hospital counselling for first time myocardial infarction men. Thompson DR, et al. **J Psychosom Res** 1990;34(3):237–48

Wives' responses to counselling early after myocardial infarction. Thompson DR, et al. **J Psychosom Res** 1990; 34(3):249–58

Inappropriate long-term medication in patients admitted to a coronary care unit. O'Sullivan JJ, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):232–5

Supplemental-information-seeking behavior of cardiovascular nurses. Corcoran-Perry S, et al. **Res Nurs Health** 1990 Apr;13(2):119–27

[Epidemiology of the avoidable delay in patients with acute myocardial infarct admitted to the coronary care unit] Fresco C, et al. **G Ital Cardiol** 1990 Apr;20(4):361–7 (40 ref.) (Eng. Abstr.) (Ita)

[Unstable angina. Analysis of admissions at the coronary unit] Marques AM, et al. **Rev Port Cardiol** 1988 Mar–Apr; 7(2):185–8 (Eng. Abstr.) (Por)

[The time interval from the onset of myocardial infarct to arrival in the coronary unit in the area of Split] Mirić D, et al. **Lijec Vjesn** 1990 Mar–Apr;112(3–4):95–6 (Eng. Abstr.) (Scr)

ECONOMICS

Early "step-down" transfer of low-risk patients with chest pain. A controlled interventional trial. Weingarten S, et al. **Ann Intern Med** 1990 Aug 15;113(4):283–9

HISTORY

Hughes Day revisited [letter] Bahr RD. **Lancet** 1990 Aug 4;336(8710):311

Coronary care unit. Braun P. **Ther Hung** 1989;37(4):216–9

MANPOWER

Strategies for recruitment and retention of critical care nurses: a cardiovascular program experience. Huttner CA. **Heart Lung** 1990 May;19(3):230–6

Opening a new critical care nursing unit during a nursing shortage: recruitment and retention strategies. Werkema JA. **Heart Lung** 1990 May;19(3):224–9

ORGANIZATION & ADMINISTRATION

Acute phase management of myocardial infarction. Davies M. **Practitioner** 1989 Apr 8;233(1466):483–5

[Intrahospital communal and hygienic problems and the construction of health institutions] Toshkov S, et al. **Probl Khig** 1989;14:11–6 (Eng. Abstr.) (Bul)

[Integration of the hospital coronary care unit with the first aid service for the domiciliary treatment of cardiovascular emergencies] Rossi P, et al. **G Ital Cardiol** 1989 Aug; 19(8):694–700 (Eng. Abstr.) (Ita)

[Mobile Intensive Cardiological Care Unit. 12-month experience] Ceremużyński L, et al. **Kardiol Pol** 1989; 32(2):107–13 (Eng. Abstr.) (Pol)

[Experience with intensive therapy and observation of patients at a central regional hospital] Sigal ES. **Sov Med** 1990;(1):38–40 (Rus)

[Rehabilitation of patients with myocardial infarction living in rural areas] Rudyk BI, et al. **Sov Zdravookhr** 1989; (10):48–51 (Eng. Abstr.) (Rus)

[Various aspects of the organization of medical services for patients with ischemic heart disease in the USSR] Chekanov VS, et al. **Vestn Khir** 1989 Jul;143(7):112–5 (Rus)

STANDARDS

Use of telephones in CCUs. **Health Devices** 1989 Oct; 18(10):367

[Evaluation of the quality of the ambulatory-polyclinical stage of rehabilitation of patients with myocardial infarction] Chavpetsov VF, et al. **Sov Med** 1989;(9):62–5 (Rus)

SUPPLY & DISTRIBUTION

Patient outcomes and regional planning of coronary care services: a location-allocation approach. McLafferty S, et al. **Soc Sci Med** 1990;30(3):297–304

TRENDS

Mortality trends in the coronary care unit. Chua TS, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):3–8

The coronary care unit in the 1970's. Griffith GC. **Chest** 1971 May;59(5):548–51

UTILIZATION

Coronary care unit triage decision aids: how do we know when they work? [editorial] Selker HP. **Am J Med** 1989 Nov;87(5):491–3

Selecting the best triage rule for patients hospitalized with chest pain. Weingarten SR, et al. **Am J Med** 1989 Nov; 87(5):494–500

Improved prognosis since 1969 of myocardial infarction treated in a coronary care unit: lack of relation with changes in severity. Hopper JL, et al. **BMJ** 1989 Oct 7; 299(6704):892–6

An audit of doctor's management of patients with chest pain in the accident and emergency department. Emerson PA, et al. **Q J Med** 1989 Mar;70(263):213–20

[The importance of medical history taking in evaluating and monitoring needs in suspected myocardial infarction] Jonsbu J, et al. **Tidsskr Nor Laegeforen** 1990 Mar 30; 110(9):1067–70 (Eng. Abstr.) (Nor)

CORONARY CIRCULATION

Coronary blood flow in chronic insulin-dependent diabetic dogs. Small KW, et al. **Acta Diabetol Lat** 1989 Oct–Dec; 26(4):275–82

Microcirculatory disturbances and human myocardial infarction. Baroldi G, et al. **Am Heart J** 1967 Aug; 74(2):173–8

Regional myocardial blood flow with a reperfusion catheter and an autoperfusion balloon catheter during total coronary occlusion. Christensen CW, et al. **Am Heart J** 1990 Feb; 119(2 Pt 1):242–8

Myocardial stunning in dogs: preconditioning effect and influence of coronary collateral flow. Cohen MV, et al. **Am Heart J** 1990 Aug;120(2):282–91

Coronary collaterals in acute myocardial infarction without underlying coronary stenosis. Edwards RR, et al. **Am Heart J** 1990 Aug;120(2):424–7

Effects of heparin treatment on collateral development and regional myocardial function in acute myocardial infarction. Ejiri M, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):248–53

Left ventricular filling shortly after an uncomplicated myocardial infarction as a predictor of subsequent exercise capacity. Finkelhor RS, et al. **Am Heart J** 1990 Jan; 119(1):85–91

Noninvasive detection of exercise-induced markedly elevated left ventricular filling pressure by pulsed Doppler echocardiography in patients with coronary artery disease. Iwase M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):947–54

The effect of coronary artery lesions on the relationship between coronary perfusion pressure and myocardial blood flow during cardiopulmonary resuscitation in pigs. Kern KB, et al. **Am Heart J** 1990 Aug;120(2):324–33

Differences in the relationships between coronary blood flow and myocardial clearance of isotopes of potassium, rubidium, and cesium. Love WD, et al. **Am Heart J** 1968 Sep;76(3):353–5

Left ventricular diastolic filling in coronary artery disease [letter; comment] Masuyama T. **Am Heart J** 1989 Dec; 118(6):1357–8 Comment on: Am Heart J 1989 Apr;117(4):870–5.

Hemodynamics and coronary blood flow during experimental aortic valvuloplasty: comparison of the dual versus the single catheter methods. Moore JW, et al. **Am Heart J** 1990 Jan;119(1):136–42

Mechanisms of ischemia in coronary artery disease: spontaneous decrease in coronary blood supply. Morris JJ Jr. **Am Heart J** 1990 Sep;120(3):746–56; discussion 769–72 (40 ref.)

Significance of Doppler indices of diastolic filling of the left ventricle: comparison with invasive hemodynamics in a canine model. Nishimura RA, et al. **Am Heart J** 1989 Dec; 118(6):1248–58

Transmural gradients of coronary flow reserve with physiologically and morphometrically defined stenoses in dogs. Nohara R, et al. **Am Heart J** 1989 Dec;118(6):1167–75

Origin of blood supply to sinoauricular and atrioventricular node. Romhilt DW, et al. **Am Heart J** 1968 Feb; 75(2):279–80

Correlates of diastolic filling abnormalities in hypertension: a Doppler echocardiographic study. Szlachcic J, et al. **Am Heart J** 1990 Aug;120(2):386–91

The important role of left ventricular relaxation and left atrial pressure in the left ventricular filling velocity profile. Takagi S, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):954–62

Effects of left ventricular hypertrophy on the coronary circulation. Dellsperger KC, et al. **Am J Cardiol** 1990 Jun 15;65(22):1504–10 (34 ref.)

In vivo relation between cineangiographic jet width and jet width imaged by color-coded Doppler. Klewer SE, et al. **Am J Cardiol** 1989 Dec 1;64(19):1399–401

Coronary collaterals assessed with myocardial contrast echocardiography in healed myocardial infarction. Lim YJ, et al. **Am J Cardiol** 1990 Sep 1;66(5):556–61

Reverse redistribution of thallium-201 detected by SPECT imaging after dipyridamole in angina pectoris. Popma JJ, et al. **Am J Cardiol** 1990 May 15;65(18):1176–80

Intraoperative demonstration of coronary collateral flow using myocardial contrast two-dimensional echocardiography. Spotnitz WD, et al. **Am J Cardiol** 1990 May 15;65(18):1259–61

Assessment of diastolic filling indexes obtained by radionuclide ventriculography. Stewart RA, et al. **Am J Cardiol** 1990 Jan 15;65(3):226–30

Doppler echocardiographic-determined changes in left ventricular diastolic filling flow velocity during the lower body positive and negative pressure method. Takahashi T, et al. **Am J Cardiol** 1990 Jan 15;65(3):237–41

Prediction of preserved flow to the infarct area based on admission electrocardiogram in anterior wall acute myocardial infarction. Tanabe Y, et al. **Am J Cardiol** 1990 Jun 15;65(22):1416–21

Effect of age on left ventricular filling in children of hypertensive parents. Dianzumba SB, et al. **Am J Hypertens** 1989 Oct;2(10):792–6

Echo-Doppler assessment of left ventricular filling in borderline hypertension. Marabotti C, et al. **Am J Hypertens** 1989 Dec;2(12 Pt 1):891–7

Coronary flow reserve, esophageal motility, and chest pain in patients with angiographically normal coronary arteries. Cannon RO 3d, et al. **Am J Med** 1990 Mar;88(3):217–22

Assessment of myocardial perfusion with contrast two-dimensional echocardiography. Kaul S. **Am J Med Sci** 1990 Feb;299(2):113–30 (69 ref.)

Role of lowering arterial pressure on maximal coronary flow with and without regression of cardiac hypertrophy. Canby CA, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1110–8

Phasic volumetric coronary venous outflow patterns in conscious dogs. Canty JM Jr, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1457–63

Phasic regional myocardial inflow and outflow: comparison of theory and experiments. Chadwick RS, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1687–98

Effects of atherosclerosis on the coronary microcirculation. Chilian WM, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H529–39

Preferential proximal coronary dilation by activators of guanylate cyclase in awake dogs. Chu A, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H340–5

Effects of acute coronary artery occlusion on the coronary microcirculation. Dellsperger KC, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H909–16

Pressure–flow characteristics of coronary collaterals in dogs [letter; comment] Downey JM. **Am J Physiol** 1990 Mar; 258(3 Pt 2):H921–2 Comment on: Am J Physiol 1989 Feb;256(2 Pt 2):H441–5.

Effect of perfusate rheology on the diastolic coronary pressure–flow relationship. Drossner M, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H603–9

Positive pleural pressure decreases coronary perfusion. Fessler HE, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H814–20

Heterogeneities in regional volumes of distribution and flows in rabbit heart. Gonzalez F, et al. **Am J Physiol** 1990 Apr; 258(4 Pt 2):H1012–24

Electrophysiological effects of left ventricular free wall traction in intact hearts. Gornick CC, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1211–9

Effect of blood filling in intramyocardial vessels on coronary arterial inflow. Goto M, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1042–8

Prediction of coronary blood flow with a numerical model based on collapsible tube dynamics. Guiot C, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1606–14

Connections between hypothalamus and medullary reticular formation mediate coronary vasoconstriction. Gutterman DD, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H917–24

Drainage patterns of coronary arterial flow as determined from the isolated heart. Hammond GL, et al. **Am J Physiol** 1967 Jun;212(6):1435–40

Duration of pressure overload alters regression of coronary circulation abnormalities. Ito N, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1753–60

Contractility is the main determinant of coronary systolic flow impediment. Krams R, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 2):H1936–44

Coronary oscillatory flow amplitude is more affected by perfusion pressure than ventricular pressure. Krams R, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1889–98

Varying elastance concept may explain coronary systolic flow impediment. Krams R, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1471–9

Model–based analysis of transmural vessel impedance and myocardial circulation dynamics. Kresh JY, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):H262–76

Relationship of myocardial blood flow and 86Rb clearance in left atrium of dogs. Lyon LD, et al. **Am J Physiol** 1967 Jun;212(6):1512–4

Coronary hyperperfusion and ventricular function in intact and isovolumic pig hearts. Miller WP, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H500–7

Vagal cardiopulmonary baroreflex activation during phenylephrine infusion. Minisi AJ, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1147–53

Phasic pressures and diameters in small epicardial veins of the unrestrained heart. Nellis SH, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1056–61

Analysis of myocardial isometric dynamics using parameters of a global model. Nwasokwa ON, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1275–86

Macromolecular transport in canine coronary microvasculature. Pilati CF. **Am J Physiol** 1990 Mar;258(3 Pt 2):H748–53

Redistribution of myocardial fiber strain and blood flow by asynchronous activation. Prinzen FW, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H300–8

Cardiovascular control by arterial and cardiopulmonary baroreceptors in awake dogs with atrioventricular block. Raymundo H, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H2048–58

Functional anatomical site of intramural collaterals in dogs. Scheel KW, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H706–11

Coronary sinus pressure has a direct effect on gradient for coronary perfusion. Scheel KW, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1739–44

Intramural coronary collateral flow in dogs. Scheel KW, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H679–82

Hemodynamic dependence of myocardial oxygen consumption indexes. Schipke JD, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1281–91

Coronary flow by left atrial and left ventricular microsphere injection in the rat. Schrock GD, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H635–8

Increased myocardial infarct size because of reduced coronary collateral blood flow in beagles. Uemura N, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1798–803

Regional myocardial flow heterogeneity explained with fractal networks. Van Beek JH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1670–80

Cardiac microdialysis to estimate interstitial adenosine and coronary blood flow. Van Wylen DG, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1642–9

Heterogeneity of myocardial blood flow under normal conditions and its dependence on arterial PO2. Wolpers HG, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H549–55

Contrast echocardiography: effects of microbubbles on coronary blood flow and left ventricular hemodynamics. Silverman PR, et al. **Am J Physiol Imaging** 1989;4(4):158–64

The detection of intra–operative myocardial ischaemia. Preliminary experience with the right–sided precordial lead. De Hert SG, et al. **Anaesthesia** 1989 Nov;44(11):881–4

Intraoperative contrast echocardiography: a direct approach to measure regional myocardial perfusion [comment] Smith PK, et al. **Anesthesiology** 1990 Feb;72(2):219–21 Comment on: Anesthesiology 1990 Feb;72(2):295–301.

Cardiac mapping of regional glucose utilization in fetal cats, rabbits, and chicks using [14C]2–deoxyglucose. Kostreva DR. **Ann N Y Acad Sci** 1990;588:250–72 (70 ref.)

Noninvasive quantification of regional myocardial blood flow and ammonia extraction fraction using nitrogen–13 ammonia and positron emission tomography. Endo M, et al. **Ann Nucl Med** 1987 Sep;1(1):1–6

Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow. Kirklin JK, et al. **Ann Thorac Surg** 1990 Apr; 49(4):625–31

Microvascular and collateral adaptation in swine hearts following progressive coronary artery stenosis. Görge G, et al. **Basic Res Cardiol** 1989 Sep–Oct;84(5):524–35

Vasodilator actions of interleukin–1 in the canine coronary circulation. Kenny D, et al. **Basic Res Cardiol** 1990 May–Jun;85(3):279–84

Evaluation of myocardial perfusion in man. Workshop. Capri, April 24/25, 1987. Proceedings. **Bibl Cardiol** 1989; (44):1–202

Coronary flow reserve in patients with chest pain, angiographically normal coronary arteries and normal left ventricle, dilated cardiomyopathy, and hypertrophic cardiomyopathy. Cannon RO 3d. **Bibl Cardiol** 1989; (44):25–38; discussion 38–9 (33 ref.)

Considerations on coronary flow reserve in man. Methodology, utility and limitations. Klassen GA. **Bibl Cardiol** 1989;(44):112–20; discussion 120–2 (37 ref.)

Regional perfusion in acute myocardial infarction. Marzilli M, et al. **Bibl Cardiol** 1989;(44):89–98; discussion 98–100

Effects of psychophysiological activation on coronary flow, cardiac electrophysiology and central hemodynamics in patients with ischemic heart disease. Mazzuero G, et al. **Bibl Cardiol** 1989;(44):47–58; discussion 58–9

What is expected from positron emission tomography in the quantitation of regional myocardial perfusion in man. Parodi O, et al. **Bibl Cardiol** 1989;(44):101–10; discussion 111 (48 ref.)

In vivo imaging of myocardial perfusion by contrast echocardiography. Rovai D, et al. **Bibl Cardiol** 1989; (44):177–86; discussion 186–7 (31 ref.)

Does successful angioplasty restore coronary flow reserve? Serruys PW, et al. **Bibl Cardiol** 1989;(44):135–52; discussion 152–4

Coronary hemodynamic effects of chemical mediators of allergic and inflammatory reactions in man. Vigorito C, et al. **Bibl Cardiol** 1989;(44):5–16; discussion 16–7

Catheter assessment of coronary blood flow and myocardial perfusion. Vogel RA. **Bibl Cardiol** 1989;(44):123–32; discussion 132–4

Measurement of coronary blood flow velocity in humans using a subselective intracoronary Doppler catheter. White CW. **Bibl Cardiol** 1989;(44):155–75; discussion 175–6

The improvements to a network flow approach to reconstruction of the vascular cross sections from two orthogonal projections. Bao YJ. **Biomed Tech (Berlin)** 1989; 34 Suppl:72–4

Spatial reconstruction of coronary arteries from biplane coronary angiograms. Guggenheim N, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:70–1

Protective effect of collateral vessels during coronary angioplasty. Norell MS, et al. **Br Heart J** 1989 Oct; 62(4):241–5

Detecting and assessing severity of coronary artery disease in humans. Gould KL. **Cardiovasc Intervent Radiol** 1990 Feb–Mar;13(1):5–13 (34 ref.)

Inability of chronic chemical sympathectomy to induce coronary collateral growth or development: studies in the rat heart in vivo. Maxwell MP, et al. **Cardiovasc Res** 1989 Sep;23(9):820–4

Effects of acutely impaired regional function on remote myocardial wall motion and blood flow in the canine left ventricle studied by coronary occlusion and hypoxic perfusion. Ohtsuka S, et al. **Cardiovasc Res** 1990 Jun; 24(6):433–9

Coronary zero flow pressure and intramyocardial pressure in transiently arrested heart. Satoh S, et al. **Cardiovasc Res** 1990 May;24(5):358–63

The regulation of the ratio of the cardiopulmonary blood volume to stroke volume in sheep. van Rooyen JM, et al. **Cardiovasc Res** 1989 May;23(5):453–9

Variability of coronary blood flow measurements with microspheres in the rat: role of injection site and sphere number. Wicker PA, et al. **Cardiovasc Res** 1989 May; 23(5):443–52

Spontaneous reversal of flow through jeopardized collateral vessels during non–Q wave myocardial infarction. Klutstein MW, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):103–7

Visualization of coronary blood flow by color Doppler imaging with a transesophageal approach. Yamagishi M, et al. **Chest** 1989 Nov;96(5):972–5

Flow patterns and spatial distribution of atherosclerotic lesions in human coronary arteries. Asakura T, et al. **Circ Res** 1990 Apr;66(4):1045–66

Profound spatial heterogeneity of coronary reserve. Discordance between patterns of resting and maximal myocardial blood flow. Austin RE Jr, et al. **Circ Res** 1990 Aug;67(2):319–31

Molecular and particulate depositions for regional myocardial flows in sheep. Bassingthwaighte JB, et al. **Circ Res** 1990 May;66(5):1328–44

Effect of loading conditions, contractile state, and heart rate on early diastolic left ventricular filling in conscious dogs. Cheng CP, et al. **Circ Res** 1990 Mar;66(3):814–23

Coronary microvascular responses to reductions in perfusion pressure. Evidence for persistent arteriolar vasomotor tone during coronary hypoperfusion. Chilian WM, et al. **Circ Res** 1990 May;66(5):1227–38

Ischemia–induced epicardial vasoconstriction. A potential mechanism for distant myocardial ischemia. Chu A, et al. **Circ Res** 1990 Jun;66(6):1484–90

Nonuniform loss of regional flow reserve during myocardial ischemia in dogs. Coggins DL, et al. **Circ Res** 1990 Aug; 67(2):253–64

Functional coronary microvascular injury evident as increased permeability due to brief ischemia and reperfusion. Dauber IM, et al. **Circ Res** 1990 Apr; 66(4):986–98

Decreased cardiac concentration of cGMP kinase in hypertensive animals. An index for cardiac vascularization? Ecker T, et al. **Circ Res** 1989 Nov;65(5):1361–9

Dynamics of atrial peptide secretion in the coronary circulation of the conscious dog. Hintze TH, et al. **Circ Res** 1990 Sep;67(3):609–14

Subendomyocardial exhaustion of blood flow reserve and increased fibrosis in conscious dogs with heart failure. Hittinger L, et al. **Circ Res** 1989 Oct;65(4):971–80

Analysis of the characteristics of the flow velocity waveforms in left atrial small arteries and veins in the dog. Kajiya F, et al. **Circ Res** 1989 Nov;65(5):1172–81

Heterogeneous changes in epimyocardial microvascular size during graded coronary stenosis. Evidence of the microvascular site for autoregulation. Kanatsuka H, et al. **Circ Res** 1990 Feb;66(2):389–96

Diameter change and pressure–red blood cell velocity relations in coronary microvessels during long diastoles in the canine left ventricle. Kanatsuka H, et al. **Circ Res** 1990 Feb;66(2):503–10

The role of alpha 1– and alpha 2–adrenergic receptors in mediation of coronary vasoconstriction in hypoperfused ischemic myocardium during exercise. Laxson DD, et al. **Circ Res** 1989 Dec;65(6):1688–97

Abnormal subendocardial blood flow in pressure overload hypertrophy is associated with pacing–induced subendocardial dysfunction. Nakano K, et al. **Circ Res** 1989 Dec;65(6):1555–64

Glucose flux rate regulates onset of ischemic contracture in globally underperfused rat hearts. Owen P, et al. **Circ Res** 1990 Feb;66(2):344–54

Correlation between transmural high energy phosphate levels and myocardial blood flow in the presence of graded coronary stenosis. Path G, et al. **Circ Res** 1990 Sep; 67(3):660–73

EDRF increases cyclic GMP in platelets during passage through the coronary vascular bed. Pohl U, et al. **Circ Res** 1989 Dec;65(6):1798–803

Comparative effects of pacing–induced and flow–limited ischemia on left ventricular function [see comments] Applegate RJ, et al. **Circulation** 1990 Apr;81(4):1380–92 Comment in: Circulation 1990 Apr;81(4):1436–9.

Positron emission tomography [letter] Bell MR, et al. **Circulation** 1990 Sep;82(3):1076–7

Coronary venous synchronized retroperfusion during percutaneous transluminal angioplasty of left anterior descending coronary artery. Berland J, et al. **Circulation** 1990 Mar;81(3 Suppl):IV35–42

Relations of the myocardial imaging agents 99mTc–MIBI and 201T1 to myocardial blood flow in a canine model of myocardial ischemic insult. Canby RC, et al. **Circulation** 1990 Jan;81(1):289–96

Direct blood flow studies of clinical internal thoracic (mammary) arterial implants. Dart CH Jr, et al. **Circulation** 1970 May;41(5 Suppl):II64–72

Assessment of abnormal systolic intraventricular flow patterns by Doppler imaging in patients with left ventricular dyssynergy. Garrahy PJ, et al. **Circulation** 1990 Jul;82(1):95–104

Noninvasive quantification of regional myocardial perfusion with rubidium–82 and positron emission tomography. Exploration of a mathematical model. Herrero P, et al. **Circulation** 1990 Oct;82(4):1377–86

Determination of coronary flow reserve by parametric imaging [see comments] Hess OM, et al. **Circulation** 1990 Oct;82(4):1438–48 Comment in: Circulation 1990 Oct;82(4):1533–5.

Coronary reserve is depressed in postmyocardial infarction reactive cardiac hypertrophy. Karam R, et al. **Circulation** 1990 Jan;81(1):238–46

Myocardial protection with preconditioning. Li GC, et al. **Circulation** 1990 Aug;82(2):609–19

Interstudy variability of coronary flow reserve. Influence of heart rate, arterial pressure, and ventricular preload. McGinn AL, et al. **Circulation** 1990 Apr;81(4):1319–30

Altered myocardial perfusion in patients with angina pectoris or silent ischemia during exercise as assessed by quantitative thallium–201 single–photon emission computed tomography. Mahmarian JJ, et al. **Circulation** 1990 Oct; 82(4):1305–15

Understanding the coronary circulation through studies at the microvascular level. Marcus ML, et al. **Circulation** 1990 Jul;82(1):1–7 (56 ref.)

Technetium–99m hexakis 2–methoxy–2–isobutyl isonitrile

and thallium-201 extraction, washout, and retention at varying coronary flow rates in rabbit heart [see comments] Marshall RC, et al. **Circulation** 1990 Sep;82(3):998–1007 Comment in: Circulation 1990 Sep;82(3):1067–9.

Thallium 201 kinetics in stunned myocardium characterized by severe postischemic systolic dysfunction. Moore CA, et al. **Circulation** 1990 May;81(5):1622–32

Recovery of a normal coronary vascular reserve after rejection therapy in acute human cardiac allograft rejection. Nitenberg A, et al. **Circulation** 1990 Apr; 81(4):1312–8

Mean transit time for the assessment of myocardial perfusion by videodensitometry [see comments] Pijls NH, et al. **Circulation** 1990 Apr;81(4):1331–40 Comment in: Circulation 1990 Apr;81(4):1431–5.

Ischemia-reperfusion impairs endothelium-dependent relaxation of coronary microvessels but does not affect large arteries. Quillen JE, et al. **Circulation** 1990 Aug; 82(2):586–94

Serial angiographic assessment of coronary artery obstruction and collateral flow in acute myocardial infarction. Report from the second Mount Sinai–New York University Reperfusion Trial. Rentrop KP, et al. **Circulation** 1989 Nov; 80(5):1166–75

Angiographic measurement of coronary blood flow reserve. Does it work? [comment] Ritman EL. **Circulation** 1990 Oct; 82(4):1533–5 Comment on: Circulation 1990 Oct;82(4):1438–48.

Assessment of regional myocardial and renal blood flow with copper-PTSM and positron emission tomography. Shelton ME, et al. **Circulation** 1990 Sep;82(3):990–7

Restrictive diastolic abnormalities identified by Doppler echocardiography in patients with thalassemia major. Spirito P, et al. **Circulation** 1990 Jul;82(1):88–94

Creation of anastomoses between an extracardiac artery and the coronary circulation. Proof that myocardial angiogenesis occurs and can provide nutritional blood flow to the myocardium. Unger EF, et al. **Circulation** 1990 Oct; 82(4):1449–66

Technetium-99m MIBI as a myocardial perfusion agent [comment] Willerson JT. **Circulation** 1990 Sep;82(3):1067–9 Comment on: Circulation 1990 Sep;82(3):998–1007.

Relation of left ventricular filling dynamics to alterations in load and compliance in patients with and without pressure-overload hypertrophy. Wisenbaugh T, et al. **Circulation** 1990 Jan;81(1):101–6

Doppler assessment of right ventricular filling in a normal population. Comparison with left ventricular filling dynamics. Zoghbi WA, et al. **Circulation** 1990 Oct; 82(4):1316–24

William Townsend Porter. Fye WB. **Clin Cardiol** 1990 Aug; 13(8):585–7

Importance of abnormalities in coronary flow reserve to the pathophysiology of left ventricular hypertrophy secondary to hypertension. Marcus ML. **Clin Cardiol** 1989 Dec;12(12 Suppl 4):IV34–5

Coronary hemodynamics in diabetic spontaneously hypertensive rats. Yamamoto J, et al. **Clin Exp Hypertens [A]** 1990;12(3):325–42

Shunt between right subclavian vein and the left heart in superior vena cava obstruction due to lung cancer. Taki J, et al. **Clin Nucl Med** 1990 Apr;15(4):251–3

Coronary circulation in acute hypoxia. Kaijser L, et al. **Clin Physiol** 1990 May;10(3):259–63

Effect of direct mechanical ventricular assistance on myocardial hemodynamics during ventricular fibrillation. Brown CG, et al. **Crit Care Med** 1989 Nov;17(11):1175–80

The effect of coronary collateral recruitment on ventricular recovery after brief coronary occlusion in dogs and pigs. Hanan SA, et al. **Curr Surg** 1990 Jan-Feb;47(1):23–5

Coronary arteriolar vasoconstriction in myocardial ischaemia: coronary vasodilator reserve during ischaemia. Bache RJ, et al. **Eur Heart J** 1990 Apr;11 Suppl B:5–9

Involvement of leucocytes and leukotrienes in ischaemic dysfunction of the coronary microcirculation. Goldstein RE. **Eur Heart J** 1990 Apr;11 Suppl B:16–26

Balloon occlusion during coronary angioplasty as a model of myocardial ischaemia: reproducibility of sequential inflations. Perry RA, et al. **Eur Heart J** 1989 Sep; 10(9):791–800

Myocardial perfusion after aortic implantation for anomalous origin of the left coronary artery from the pulmonary artery. Seguchi M, et al. **Eur Heart J** 1990 Mar;11(3):213–8

A comparison of two methods to measure coronary flow reserve in the setting of coronary angioplasty: intracoronary blood flow velocity measurements with a Doppler catheter, and digital subtraction cineangiography. Serruys PW, et al. **Eur Heart J** 1989 Aug;10(8):725–36

Coronary microangiopathy and cardiac hypertrophy. Vogt M, et al. **Eur Heart J** 1990 Apr;11 Suppl B:133–8

Adequate global myocardial perfusion provided by a left internal mammary artery. A case report. Wellens F, et al. **Eur J Cardiothorac Surg** 1989;3(5):476–8

Methoxyisobutylisonitrile (MIBI) Tc 99m SPECT to establish a correlate to coronary flow reserve, the perfusion reserve, from global and regional myocardial uptake after exercise and rest. Buell U, et al. **Eur J Nucl Med** 1990; 16(1):3–9

Nuclear medicine to image applied pathophysiology: evaluation of reserves by emission computerized tomography. Buell U, et al. **Eur J Nucl Med** 1990; 16(3):129–35 (81 ref.)

The effects of microsphere injections into the left atrium on the myocardial blood supply measured by thermal conductance probes. Hahn N, et al. **Eur J Nucl Med** 1990; 16(4–6):241–7

201Tl myocardial perfusion in the management of the transplanted heart. Richter J, et al. **Eur J Nucl Med** 1990; 16(3):167–71

Effective pulmonary flow, aortic flow and cardiac output: in vitro and in vivo comparisons in the dog. Franks PJ, et al. **Exp Physiol** 1990 Jan;75(1):95–106

Normalization of impaired coronary circulation in hypertrophied rat hearts. Sato F, et al. **Hypertension** 1990 Jul;16(1):26–34

Myocardial perfusion in experimentally induced diabetes mellitus. Toma B, et al. **Indian J Exp Biol** 1990 Mar; 28(3):289–90

Correlation of Cu(PTSM) localization with regional blood flow in the heart and kidney. Barnhart AJ, et al. **Int J Rad Appl Instrum [B]** 1989;16(7):747–8

Determination of regional myocardial perfusion by x-ray fluorescence. Palmer BM, et al. **Invest Radiol** 1990 May; 25(5):486–94

Left ventricular outflow tract to left atrial communication secondary to rupture of mitral-aortic intervalvular fibrosa in infective endocarditis: diagnosis by transesophageal echocardiography and color flow imaging. Bansal RC, et al. **J Am Coll Cardiol** 1990 Feb;15(2):499–504

Neutrophil depletion fails to modify myocardial no reflow and functional recovery after coronary reperfusion [see comments] Carlson RE, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1803–13 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1814–5.

Assessment of regional myocardial perfusion by contrast echocardiography. II. Detection of changes in transmural and subendocardial perfusion during dipyridamole-induced hyperemia in a model of critical coronary stenosis. Cheirif J, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1555–65

Coronary flow reserve as a physiologic measure of stenosis severity. Gould KL, et al. **J Am Coll Cardiol** 1990 Feb; 15(2):459–74

Noninvasive quantification of regional blood flow in the human heart using N-13 ammonia and dynamic positron emission tomographic imaging. Hutchins GD, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1032–42

Predictors of left ventricular thrombus formation: flow, asynergy and morphology [comment] Kessler KM. **J Am Coll Cardiol** 1990 Feb;15(2):361–2 Comment on: J Am Coll Cardiol 1990 Feb;15(2):355–60.

No reflow revisited [editorial; comment] Kloner RA. **J Am Coll Cardiol** 1989 Dec;14(7):1814–5 Comment on: J Am Coll Cardiol 1989 Dec;14(7):1803–13.

The frequency of late reversibility in SPECT thallium-201 stress-redistribution studies [see comments] Yang LD, et al. **J Am Coll Cardiol** 1990 Feb;15(2):334–40 Comment in: J Am Coll Cardiol 1990 Feb;15(2):341–4.

Method for the quantitation of myocardial perfusion during myocardial contrast two-dimensional echocardiography. Jayaweera AR, et al. **J Am Soc Echocardiogr** 1990 Mar-Apr;3(2):91–8

Quantifying changes in regional myocardial perfusion with aortic contrast echocardiography. Kemper AJ, et al. **J Am Soc Echocardiogr** 1989 Jan-Feb;2(1):36–47

Myocardial perfusion studies by contrast echocardiography. Lichtenberg GS, et al. **J Am Soc Echocardiogr** 1990 Mar-Apr;3(2):170–6 (9 ref.)

Exercise training increases coronary transport reserve in miniature swine. Laughlin MH, et al. **J Appl Physiol** 1989 Sep;67(3):1140–9

Computation of diagnostic data from coronary sinus pressure: a comparison between two possible models. Schreiner W, et al. **J Biomed Eng** 1989 Nov;11(6):482–6

Oxidized low density lipoproteins cause contraction and inhibit endothelium-dependent relaxation in the pig coronary artery. Simon BC, et al. **J Clin Invest** 1990 Jul; 86(1):75–9

Functional impairment in isolated rat hearts induced by activated leukocytes: protective effect of oxygen free radical scavengers. Semb AG, et al. **J Mol Cell Cardiol** 1989 Sep;21(9):877–87

Simultaneous in vitro and in vivo validation of nitrogen-13-ammonia for the assessment of regional myocardial blood flow. Bellina CR, et al. **J Nucl Med** 1990 Aug;31(8):1335–43

Iodophenylpentadecanoic acid-myocardial blood flow relationship during maximal exercise with coronary occlusion. Caldwell JH, et al. **J Nucl Med** 1990 Jan; 31(1):99–105

Reversibility bull's-eye: a new polar bull's-eye map to quantify reversibility of stress-induced SPECT thallium-201 myocardial perfusion defects. Klein JL, et al. **J Nucl Med** 1990 Jul;31(7):1240–6

Wiener filtering improves quantification of regional myocardial perfusion with thallium-201 SPECT. Links JM, et al. **J Nucl Med** 1990 Jul;31(7):1230–6

Model-based quantification of myocardial perfusion images from SPECT. Nuyts J, et al. **J Nucl Med** 1989 Dec; 30(12):1992–2001

Serial changes in myocardial perfusion using tomographic technetium-99m-hexakis-2-methoxy-2-methylpropyl-isonitrile imaging following reperfusion therapy of myocardial infarction. Pellikka PA, et al. **J Nucl Med** 1990 Aug;31(8):1269–75

Myocardial clearance kinetics of technetium-99m-SQ30217: a marker of regional myocardial blood flow. Stewart RE, et al. **J Nucl Med** 1990 Jul;31(7):1183–90

Cellular mechanism of the modulation of contractile function by coronary perfusion pressure in ferret hearts. Kitakaze M, et al. **J Physiol (Lond)** 1989 Jul;414:455–72

Transfemoral balloon aortic occlusion during open cardiopulmonary resuscitation improves myocardial and cerebral blood flow. Spence PA, et al. **J Surg Res** 1990 Sep;49(3):217–21

Heterogeneous delivery of cardioplegic solution in the absence of coronary artery disease. Aldea GS, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):345–53

Effects of temperature on myocardial calcium homeostasis and mitochondrial function during ischemia and reperfusion. Ferrari R, et al. **J Thorac Cardiovasc Surg** 1990 May;99(5):919–28

Intraoperative perfusion contrast echocardiography. Initial experience during coronary artery bypass grafting. Kabas JS, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):536–42

Evaluation of postoperative flow capacity of internal mammary artery. Kawasuji M, et al. **J Thorac Cardiovasc Surg** 1990 Apr;99(4):696–702

A new scoring system for timely application of left ventricular assistance [letter] Li GS. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):372–3

A new method of retrograde cardioplegic administration. Right ventricular protection by right atrial perfusion cooling. Nakamura Y, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):335–44

Augmented coronary sinus pressure does affect coronary autoregulation [letter; comment] Papp L, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):634–6 Comment on: J Thorac Cardiovasc Surg 1988 Mar;95(3):511–5.

The effect of amino acids on the ischemic heart. Improvement of oxygenated crystalloid cardioplegic solution by an enriched branched chain amino acid formulation. Schwalb H, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):551–6

On the application of ultrasonic contrast agents for blood flowmetry and assessment of cardiac perfusion. Bleeker H, et al. **J Ultrasound Med** 1990 Aug;9(8):461–71

Coronary perfusion pressure in CPR [letter; comment] McNeill DH. **JAMA** 1990 Jun 27;263(24):3257–8 Comment on: JAMA 1990 Feb 23;263(8):1106–13.

Coronary perfusion pressure and the return of spontaneous circulation in human cardiopulmonary resuscitation [see comments] Paradis NA, et al. **JAMA** 1990 Feb 23; 263(8):1106–13 Comment in: JAMA 1990 Jun 27;263(24):3257–8.

Doppler echocardiographic approach to the blood flow of the left anterior descending coronary artery. Miyatake K, et al. **JCU** 1988 Sep;16(7):471–81

Alleviation of myocardial ischemia by the development of coronary collateral circulation. Fujita M, et al. **Jpn Circ J** 1989 Sep;53(9):1164–9 (18 ref.)

Quantitative color flow imaging to measure the two-dimensional distribution of blood flow velocity and the flow rate. Kitabatake A, et al. **Jpn Circ J** 1990 Mar; 54(3):304–8

Effects of coronary artery bypass surgery on regions showing persistent defects in thallium myocardial images. Konishi Y, et al. **Jpn Circ J** 1989 Nov;53(11):1356–62

Myocardial perfusion in silent myocardial ischemia: investigation by exercise stress myocardial tomography with thallium-201. Narita M, et al. **Jpn Circ J** 1989 Nov; 53(11):1427–36

Increased secretion of atrial natriuretic polypeptide in response to cardiac pacing. Obata K, et al. **Jpn Circ J** 1989 Sep;53(9):1055–60

Coronary flow reserve and oxygen metabolism of the right ventricle. Saito D, et al. **Jpn Circ J** 1989 Oct;53(10):1310–6

Value of transesophageal color Doppler echocardiography in the evaluation of coronary artery anatomy and blood flow. Yoshida K, et al. **Jpn Circ J** 1990 Mar;54(3):298–303

Progression of myocardial infarction in a collateral flow deficient species. Miura T, et al. **Jpn Heart J** 1989 Sep; 30(5):695–708

Venous flow in the great cardiac vein of the dog. Nakamura Y, et al. **Jpn Heart J** 1990 Jan;31(1):99–108

Interatrial shunts and decompression sickness in divers [letter; comment] [see comments] Smith DJ, et al. **Lancet** 1990 Apr 14;335(8694):914–5 Comment on: Lancet 1989 Dec 2;2(8675):1302–6. Comment in: Lancet 1990 Jun 30;335(8705):1593.

99Tcm-methoxy-isobutyl-isonitrile SPECT to evaluate a perfusion index from regional myocardial uptake after exercise and at rest. Results of a four hour protocol in patients with coronary heart disease and in controls. Buell U, et al. **Nucl Med Commun** 1990 Feb;11(2):77–94

Pressure-flow relations in coronary circulation. Hoffman JI, et al. **Physiol Rev** 1990 Apr;70(2):331–90 (732 ref.)

A comparison of the clinical relevance of thallium-201 and technetium-99m-methoxyisobutyl-isonitrile for the evaluation of myocardial blood flow. Herbst CP, et al. **S Afr Med J** 1990 Sep 1;78(5):277–80

Does left ventricular distension really alter coronary blood flow and myocardial metabolism? Arom KV, et al. **Surg Forum** 1978;29:253–6

Analysis of phasic flow patterns of saphenous vein aortocoronary bypass grafts. Gold JP, et al. **Surg Forum** 1978;29:300–2

Relation between subendocardial blood flow and restoration of left ventricular function after global ischemia. Grötte GJ, et al. **Surg Forum** 1978;29:263–4

Selective retrograde coronary venous perfusion: an encouraging approach documented by microsphere flow studies. Hochberg MS, et al. **Surg Forum** 1978;29:261–2

Changes in coronary artery bypass graft flows with varying arterial carbon dioxide pressure levels. Lewis JW Jr, et al. **Surg Forum** 1978;29:303–6

Regional perfusion abnormalities in hypertrophied left ventricle measured by hydrogen polarography. McFarland WJ Jr, et al. **Surg Forum** 1978;29:242–4

Effect of intracavitary ventricular filling pressure on coronary flow distribution, water content, and compliance in hypertrophied hearts. Mavroudis C, et al. **Surg Forum** 1978;29:306–8

Adequate flow through the internal mammary artery graft achieved by a dilatation technique. Eckel L, et al. **Thorac Cardiovasc Surg** 1990 Jun;38(3):157–60

Thrombin is an important mediator of cyclic coronary blood flow variations due to platelet aggregation in stenosed canine coronary arteries. Eidt JF, et al. **Trans Assoc Am Physicians** 1988;101:125–36

5-HT receptors in the coronary circulation. Angus JA. **Trends Pharmacol Sci** 1989 Mar;10(3):89–90 (14 ref.)

[Changes in platelet aggregation and coronary collateral circulation during the early phase of myocardial ischemia in dogs] Zhao ZQ, et al. **Sheng Li Hsueh Pao** 1989 Aug; 41(4):346–53 (Eng. Abstr.) (Chi)

[Coronary circulation and chronic hypoxia] Moret PR. **Angiologica** 1967;4(3–4):184–92 (Eng. Abstr.) (Fre)

[Computer-assisted coronary dilatation and model presentations] Albrecht J, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:75–6 (Ger)

[Quality control within the scope of analysis of densitometry parameters in the evaluation of myocardial perfusion] Haude M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:77–8 (Ger)

[Microcomputer-assisted evaluation of intracoronary Doppler flow measurements] Rupprecht HJ, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:117–8 (Ger)

[A microcomputer system for video-intensitometry evaluation of contrast echocardiograms for evaluating myocardial perfusion in real time] Zotz R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:123–4 (Ger)

[Coronary vasomotion in myocardial ischemia] Heusch G. **Z Kardiol** 1989 Aug;78(8):485–99 (114 ref.) (Eng. Abstr.) (Ger)

[Analysis using scintigraphy with thallium-201 of the perfusion picture before and after myocardial revascularization] Astorri E, et al. **Cardiologia** 1989 Aug; 34(8):701–6 (Eng. Abstr.) (Ita)

[Doppler velocimetry of the internal mammary artery anastomosed to the anterior descendent coronary artery: a noninvasive analysis of coronary circulation] Ciccone M, et al. **Cardiologia** 1989 Jul;34(7):617–21 (Eng. Abstr.) (Ita)

[Coronary vascular resistance during transitory variations in aortic pressure] Gattullo D, et al. **Cardiologia** 1989 Jun; 34(6):499–506 (Eng. Abstr.) (Ita)

[Left ventricular blood flow dynamics caused by ventricular premature contraction: pulsed Doppler echocardiographic study] Sanada J, et al. **J Cardiol** 1989 Mar;19(1):263–75 (Eng. Abstr.) (Jpn)

[Left ventricular diastolic reserve during acute pressure loading in hypertrophic cardiomyopathy and dilated cardiomyopathy] Yokote Y, et al. **J Cardiol** 1988 Dec; 18(4):1051–60 (Eng. Abstr.) (Jpn)

[An attempt of thallium-201 myocardial perfusion imaging during transient coronary arterial occlusion by PTCA] Nakagawa T, et al. **Kaku Igaku** 1989 Dec;26(12):1545–8 (Eng. Abstr.) (Jpn)

[Quantitative evaluation of myocardial blood flow and myocardial fluoro-deoxyglucose uptake determined by PET before and after aorto-coronary bypass operation in patients with ischemic heart disease] Takahashi A, et al. **Kaku Igaku** 1990 Mar;27(3):227–35 (Eng. Abstr.) (Jpn)

[Separate evaluation of beta-methyl fatty acid uptake and perfusion in rat myocardium] Taniguchi M, et al. **Kaku Igaku** 1989 Dec;26(12):1523–30 (Eng. Abstr.) (Jpn)

[Coronary sinus cannulation via the femoral vein for evaluation of coronary hemodynamics and myocardial metabolism in children] Hamaoka K, et al. **Kokyu To Junkan** 1989 Dec;37(12):1309–14 (Jpn)

[Microvascular angina] Kirigaya H, et al. **Kokyu To Junkan** 1989 Jul;37(7):717–23 (Jpn)

[Coronary hemodynamics in a patient developing chest pain in the middle age in congenital coronary-pulmonary fistula] Mikuniya A, et al. **Kokyu To Junkan** 1989 Sep; 37(9):1015–20 (Eng. Abstr.) (Jpn)

[The necessary conditions of chronic total occlusion of all three coronary vessels—the relationship between portions of coronary occlusion and collateral vessels] Moriuchi I, et al. **Kokyu To Junkan** 1990 Jul;38(7):659–63 (Eng. Abstr.) (Jpn)

[Myocardial microcirculation in cardiac hypertrophy] Murata K, et al. **Kokyu To Junkan** 1989 Jul;37(7):725–30 (Jpn)

[Myocardial metabolism and perfusion assessed by positron emission tomography] Torizuka K, et al. **Kokyu To Junkan** 1990 Apr;38(4):309–20 (66 ref.) (Jpn)

[Changes in the ECG and myocardial blood flow of the right and left ventricular walls under acute pulmonary arterial stenosis] Yoshida H, et al. **Kokyu To Junkan** 1990 Apr; 38(4):367–74 (Eng. Abstr.) (Jpn)

[Intraoperative assessment of the transmural myocardial blood flow distribution using myocardial contrast echocardiography: preliminary report] Hirata N, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):298 (Jpn)

[Effects of the site of distal anastomosis on the branch flow of coronary arteries in an A–C bypass grafting] Nakajima H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct; 37(10):2134–41 (Eng. Abstr.) (Jpn)

[Effects of coronary sinus pressure on left ventricular function following Fontan surgery. The theoretical basis for reflux between the coronary sinus and left atrium] Seo K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 May; 37(5):861–3 (Jpn)

[Physiopathologic aspects of coronary occlusion] Laurindo FR, et al. **AMB Rev Assoc Med Bras** 1989 Jul–Sep; 35(4):126–36 (130 ref.) (Por)

[Slow blood flow in the coronary arteries: probable expression of a morbid process] Ramires JA, et al. **Arq Bras Cardiol** 1989 Jan;52(1):1–3 (Por)

[Adaptive structures of the venous bed of the heart in normal state and in congenital defects] Shormanov SV. **Arkh Anat Gistol Embriol** 1990 Jun;98(6):58–65 (Eng. Abstr.) (Rus)

[Significance of circulatory changes, left-ventricular form and calcium metabolism in ventricular hypertrophy in patients with ischemic heart disease] Ianovskil GV, et al. **Kardiologiia** 1989 Aug;29(8):95–7 (Rus)

[Possibility of quantitative evaluation of venous outflow in patients with acute myocardial infarction during emergency coronarography] Kuliev OA, et al. **Kardiologiia** 1989 Jul; 29(7):114–5 (Rus)

[ECG changes in leads over the left ventricular epicardial surface during bicycle ergometry and perfusion pressure in the left coronary artery] Leshchenko AI, et al. **Kardiologiia** 1989 Jul;29(7):99–100 (Rus)

[Characteristics of cardiac hemodynamics and right ventricular function in patients with various types of cardiomyopathy and ischemic heart disease] Mamedova FA. **Kardiologiia** 1989 Jul;29(7):70–3 (Eng. Abstr.) (Rus)

[The microcirculatory bed of the myocardium in experimental embolism of the branches of the pulmonary artery] Frolov VA, et al. **Patol Fiziol Eksp Ter** 1990 Jan–Feb;(1):25–7 (Eng. Abstr.) (Rus)

[Effect of adaptation to continuous and intermittent hypoxia on heart resistance to ischemic and reperfusion arrhythmias] Meerson FZ, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):48–50 (Eng. Abstr.) (Rus)

[Echo contrast study of myocardial perfusion] At'kov OIu, et al. **Ter Arkh** 1990;62(4):148–51 (58 ref.) (Rus)

[Indicators of hepatic and intracardiac hemodynamics in the surgical treatment of liver cirrhosis] Khodzhibekov MKh, et al. **Vestn Khir** 1989 Jun;142(6):25–8 (Eng. Abstr.) (Rus)

[Circumferential profiles versus visual analysis in studies of myocardial perfusion during exertion using thallium-201] Martínez-Duncker C, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):171–6 (Eng. Abstr.) (Spa)

DRUG EFFECTS

Effects of alpha-1 adrenergic blockade on regional flow in the ischemic heart. Macho P, et al. **Acta Physiol Pharmacol Latinoam** 1988;38(3):319–27

Post-occlusive reactive hyperaemia in the heart, skeletal muscle and skin of control and capsaicin-pre-treated pigs. Franco-Cereceda A, et al. **Acta Physiol Scand** 1989 Oct; 137(2):271–7

Physiologic role of the peripheral enkephalinergic system in regulating cardiovascular homeostasis: evidence of interactions with the renin-angiotensin and kallikrein-kinin systems. Carmignani M, et al. **Adv Exp Med Biol** 1989; 247B:477–81

Ethanol-induced coronary vasodilation in patients with and without coronary artery disease. Cigarroa RG, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):254–9

Adverse effects of cocaine on cardiovascular dynamics, myocardial blood flow, and coronary artery diameter in an experimental model. Hale SL, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):927–33

Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients. Kern MJ, et al. **Am Heart J** 1990 Jan;119(1):47–54

Effect of intracoronary contrast medium on left ventricular diastolic pressure-volume relationships. Kløw NE, et al. **Am Heart J** 1990 Jan;119(1):59–63

Reduction of myocardial ischemia during percutaneous transluminal coronary angioplasty with oxygenated Fluosol. Kent KM, et al. **Am J Cardiol** 1990 Aug 1; 66(3):279–84

Changes in diameter of coronary narrowings and translesional hemodynamics after intracoronary nitroglycerin. Kimball BP, et al. **Am J Cardiol** 1990 Sep 15;66(7):705–9

Intracoronary endothelin induces myocardial ischemia by small vessel constriction in the dog. Larkin SW, et al. **Am J Cardiol** 1989 Oct 15;64(14):956–8

Acute coronary vasomotor effects of nifedipine and therapeutic correlates in syndrome X. Montorsi P, et al. **Am J Cardiol** 1990 Aug 1;66(3):302–7

Effect of dipyridamole at the usual oral dose on exercise-induced myocardial ischemia in stable angina pectoris. Tsuya T, et al. **Am J Cardiol** 1990 Aug 1; 66(3):275–8

Effects of a stabilized endothelium-derived relaxing factor on the coronary vasculature in awake dogs. Chu A, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1895–9

Changes of venous return and other hemodynamic parameters during bradykinin infusion. Emerson TE Jr. **Am J Physiol** 1967 Jun;212(6):1455–60

n-3 fatty acids increase postischemic blood flow but do not reduce myocardial necrosis. Force T, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1204–10

Influence of vessel size on the sensitivity of porcine coronary microvessels to nitroglycerin. Sellke FW, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H515–20

Inosine transiently decreases coronary flow but potentiates vasodilation by adenosine. Van der Meer P, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H759–65

Effect of isoflurane on the extent of myocardial necrosis and on systemic hemodynamics, regional myocardial blood flow, and regional myocardial metabolism in dogs after coronary artery occlusion. Davis RF, et al. **Anesth Analg** 1989 Nov;69(5):575–86

Effects of sevoflurane and isoflurane on cardiac and coronary dynamics in chronically instrumented dogs. Bernard JM, et al. **Anesthesiology** 1990 Apr;72(4):659–62

Isoflurane and coronary hemodynamics [published erratum appears in Anesthesiology 1990 Feb;72(2):398] Priebe HJ. **Anesthesiology** 1989 Dec;71(6):960–76 (104 ref.)

Effects of persantin and nitroglycerin on myocardial blood flow during temporary coronary occlusions in dogs. Linder E, et al. **Angiologica** 1967;4(5):225–55

Acute effect of lidocaine on coronary blood flow and myocardial function. Gee D, et al. **Angiology** 1990 Jan; 41(1):30–5

Left ventricular excursions and velocities during coronary arterial ligation. Effects of nitroglycerin infusion in an experimental model. Kounis NG, et al. **Angiology** 1989 Oct; 40(10):899–906

Acute effects of milrinone on the electrocardiogram and the cardiac hemodynamics of rats with pressure overload-induced congestive heart failure. Desjardins S, et al. **Arch Int Pharmacodyn Ther** 1989 Sep–Oct;301:182–99

Investigation on the effect of dipyridamole and papaverine on regional blood flow and cardiac hemodynamics in anesthetized dogs [published erratum appears in Arzneimittelforschung 1989 Oct;39(10):1293] Sakanashi M, et al. **Arzneimittelforschung** 1989 Sep;39(9):1119–23

Antiarrhythmic and antinecrotic effects of yohimbine stereoisomers in rats during coronary occlusion and reperfusion. Bernauer W. **Basic Res Cardiol** 1990 Mar–Apr; 85(2):132–41

Phosphodiesterase inhibitors: alterations in systemic and coronary hemodynamics. Chatterjee K. **Basic Res Cardiol** 1989;84 Suppl 1:213–24 (25 ref.)

Effects of dipyridamole on collateral flow and regional myocardial function in conscious dogs with newly developed collaterals. Fujita M, et al. **Basic Res Cardiol** 1990 Mar–Apr;85(2):142–52

Assessment of the mechanism of action of antianginal drugs by the continuous thermodilution method. Specchia G, et al. **Bibl Cardiol** 1989;(44):18–23; discussion 23–4

Coronary vascular reserve in elderly subjects. Vigorito C, et al. **Bibl Cardiol** 1989;(44):40–5; discussion 45–6

The effect of methohexitone on myocardial blood flow and oxygen consumption in the dog. McMillan JC, et al. **Br J Anaesth** 1974 Oct;46(10):729–32

Changes in canine myocardial blood flow and oxygen consumption in response to halothane. Smith G, et al. **Br J Anaesth** 1974 Nov;46(11):821–6

Nitric oxide synthesized from L-arginine regulates vascular tone in the coronary circulation of the rabbit. Amezcua JL, et al. **Br J Pharmacol** 1989 Aug;97(4):1119–24

Time-dependent effects of theophylline on myocardial reactive hyperaemias in the anaesthetized dog. Gidday JM, et al. **Br J Pharmacol** 1990 May;100(1):95–101

Effect of age and methacholine on the rate and coronary flow of isolated hearts of diabetic rats. Li XS, et al. **Br J Pharmacol** 1989 Aug;97(4):1209–17

The effect of diltiazem on the coronary haemodynamic and cardiac functional effects produced by intracoronary administration of endothelin-1 in the anaesthetized dog. Nichols AJ, et al. **Br J Pharmacol** 1990 Mar;99(3):597–601

Enhanced coronary vasoconstrictor responses to 5-hydroxytryptamine in the presence of a coronary artery stenosis in anaesthetized dogs. Woodman OL. **Br J Pharmacol** 1990 May;100(1):153–7

Inotropic effect of calcium on stunned myocardium. Beauchamp RJ, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S151

Comparison of the haemodynamic effects of SNP and AMP following acute microsphere induced ischaemic ventricular dysfunction. Finegan BA, et al. **Can J Anaesth** 1990 May; 37(4 Pt 2):S149

Systemic compared with coronary infusion of adenosine during acute coronary hypoperfusion in dogs. Sidi A, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S148

Halothane and isoflurane prevent free radical induced reduction in the coronary flow and contractility of the isolated rabbit-heart. Tanguay M, et al. **Can J Anaesth** 1990

May;37(4 Pt 2):S147
Oxypurinol limits myocardial infarct size in closed chest dogs without pretreatment. Matsuki T, et al. **Can J Cardiol** 1990 Apr;6(3):123–9
Coronary vasodilation caused by intravenous cocaine in the anesthetized beagle. Friedrichs GS, et al. **Can J Physiol Pharmacol** 1990 Jul;68(7):893–7
Delayed recovery of homogeneous perfusion distribution in isolated rat heart after vasodilatation induced by alpha 1 adrenoceptor blockade during postischaemic reperfusion. Mohanlal RW, et al. **Cardiovasc Res** 1989 Nov; 23(11):934–40
Functional state of the endothelium determines the response to endothelin in the coronary circulation. Stewart DJ, et al. **Cardiovasc Res** 1990 Jan;24(1):7–12
Antianginal drugs and relationship between epicardial ST segment depression and moderate regional myocardial blood flow reduction in experimental partial coronary artery occlusion. Timogiannakis GB, et al. **Cardiovasc Res** 1990 May;24(5):396–403
Effects of endothelin on the coronary vascular bed in open-chest dogs. Clozel JP, et al. **Circ Res** 1989 Nov; 65(5):1193–200
Effect of atrial natriuretic peptide on coronary collateral blood flow. Foreman B, et al. **Circ Res** 1989 Dec; 65(6):1671–8
Comparison of the effects of increased myocardial oxygen consumption and adenosine on the coronary microvascular resistance. Kanatsuka H, et al. **Circ Res** 1989 Nov; 65(5):1296–305
Effects of endothelin on coronary flow, mechanical performance, oxygen uptake, and formation of purines and on outflow of prostacyclin in the isolated rabbit heart. Karwatowska-Prokopczuk E, et al. **Circ Res** 1990 Jan; 66(1):46–54
Beneficial effects of alpha 2-adrenoceptor activity on ischemic myocardium during coronary hypoperfusion in dogs. Kitakaze M, et al. **Circ Res** 1989 Dec;65(6):1632–45
Acetylcholine causes coronary vasodilation in dogs and baboons. Van Winkle DM, et al. **Circ Res** 1989 Dec; 65(6):1580–93
Effects of calcium entry blockade on myocardial blood flow. Bache RJ. **Circulation** 1989 Dec;80(6 Suppl):IV40–6 (48 ref.)
Effect of intravenous propranolol on coronary vasomotion at rest and during dynamic exercise in patients with coronary artery disease. Bortone AS, et al. **Circulation** 1990 Apr;81(4):1225–35
Effects of atrial natriuretic peptide on the coronary arterial vasculature in humans [published erratum appears in Circulation 1990 Mar;81(3):1160] Chu A, et al. **Circulation** 1989 Dec;80(6):1627–35
Combined effects of nitrates on the coronary and peripheral circulation in exercise-induced ischemia. De Coster PM, et al. **Circulation** 1990 Jun;81(6):1881–6
Increased adenosine concentration in blood from ischemic myocardium by AICA riboside. Effects on flow, granulocytes, and injury. Gruber HE, et al. **Circulation** 1989 Nov;80(5):1400–11
Metabolic protection by verapamil during graded coronary flow reduction independent of effect on baseline systolic function. Separation of mechanical and ionic markers of ischemia. Jenkins MG, et al. **Circulation** 1989 Dec; 80(6):1870–7
The effect of diltiazem on coronary flow reserve in humans. Rossen JD, et al. **Circulation** 1989 Nov;80(5):1240–6
Effects of nitroprusside on myocardial blood flow and oxygen consumption in conscious lambs with an aortopulmonary left-to-right shunt. Toorop GP, et al. **Circulation** 1990 Jan;81(1):319–24
Regional perfusion in hearts with acute coronary artery occlusion and subsequent beta 2- and alpha 1-adrenergic blockade. Kvitting P, et al. **Clin Physiol** 1990 Mar; 10(2):155–70
The effect of alpha-tocopherol and Intal on heart capillary bed and lipid peroxide oxidation in experimental necrosis of the rat myocardium. Amatuni VG, et al. **Cor Vasa** 1989; 31(6):500–7
The development of coronary insufficiency during prolonged treatment of essential hypertension. Kalnins UV, et al. **Cor Vasa** 1990;32(1):64–71
Antithrombotic effects of the thromboxane A2 antagonist, SQ 28,668, in vitro and in the coronary circulation in vivo. Ogletree ML, et al. **Eicosanoids** 1988;1(2):85–91
Thallium-201 scintigraphy after dipyridamole infusion with low level exercise. II. Quantitative analysis vs visual analysis. Laarman GJ, et al. **Eur Heart J** 1990 Feb; 11(2):162–72
Coronary effects of adenosine in conscious man. Marzilli M, et al. **Eur Heart J** 1989 Nov;10 Suppl F:78–81
Prevention of restenosis after coronary angioplasty: a pharmacological approach. Meier B. **Eur Heart J** 1989 Dec; 10 Suppl G:64–8 (22 ref.)
Intravenous carbochromen: a potent and effective drug for estimation of coronary dilatory capacity. Opherk D, et al. **Eur Heart J** 1990 Apr;11(4):342–7
The effects of xamoterol and pacing on myocardial blood flow and metabolism in patients with coronary artery disease. Simonsen S. **Eur Heart J** 1990 Apr;11 Suppl A:61
Influence of carvedilol and propranolol on coronary blood flow. Sievert H, et al. **Eur J Clin Pharmacol** 1990;38 Suppl 2:S122–4
Effect of N alpha-benzoyl-L-arginine ethyl ester on coronary perfusion pressure in isolated guinea pig heart. Thomas G, et al. **Eur J Pharmacol** 1990 Mar 20; 178(2):251–4
Cardioprotective and antiarrhythmic effects of beta-blockers, propranolol, bisoprolol, and nipradilol in a canine model of regional ischemia. Ogawa T, et al. **Heart Vessels** 1989; 5(1):10–6
Low osmolality contrast media and metabolic changes in the myocardium during free and reduced coronary flow in the dog. Kløw NE, et al. **Invest Radiol** 1990 Feb;25(2):127–32
Combined thromboxane A2 synthetase inhibition and receptor blockade are effective in preventing spontaneous and epinephrine-induced canine coronary cyclic flow variations. Yao SK, et al. **J Am Coll Cardiol** 1990 Sep; 16(3):705–13
Characterization and platelet inhibitory activity of bitistatin, a potent arginine-glycine-aspartic acid-containing peptide from the venom of the viper Bitis arietans. Shebuski RJ, et al. **J Biol Chem** 1989 Dec 25;264(36):21550–6
Effect of pinacidil on myocardial blood flow in the presence of a coronary artery stenosis. Bache RJ, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):618–25
Vasodilator action of endothelin-1 in the perfused rat heart. Baydoun AR, et al. **J Cardiovasc Pharmacol** 1990 May; 15(5):759–63
Effects of Ro 40-5967, a novel calcium antagonist, on myocardial function during ischemia induced by lowering coronary perfusion pressure in dogs: comparison with verapamil. Clozel JP, et al. **J Cardiovasc Pharmacol** 1989 Nov;14(5):713–21
Effect of long-term oral nisoldipine on infarct size and collateral development in pigs undergoing gradual occlusion of the left circumflex artery. Crottogini AJ, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):644–54
Effects of the novel coronary selective calcium channel blocker, McN-6186, on cardiocirculatory dynamics, coronary vascular resistance, and cardiac output distribution in normal, conscious rats. Flaim SF, et al. **J Cardiovasc Pharmacol** 1990 May;15(5):780–90
ACE inhibition with cilazapril improves myocardial perfusion to the ischemic regions during exercise: a pilot study. Gasic S, et al. **J Cardiovasc Pharmacol** 1990 Feb; 15(2):227–32
Vascular responses to dopamine and dobutamine in the awake calf during constant aortic flow or constant aortic pressure. Greiner AS, et al. **J Cardiovasc Pharmacol** 1990 Mar; 15(3):392–7
Augmentation of coronary flow improves myocardial function in exercise. Gwirtz PA, et al. **J Cardiovasc Pharmacol** 1990 May;15(5):752–8
Histamine mediates myocardial damage by an H1 mechanism independent of coronary blood flow. Kantrowitz NE, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):82–8
Profile of cardiac and coronary vasodilator effects of MS-857, a novel cardiotonic agent, assessed in isolated, blood-perfused heart preparations of the dog. Maruyama M, et al. **J Cardiovasc Pharmacol** 1989 Nov;14(5):777–82
Effects of peptide 6A on coronary blood flow dynamics in canine coronary thrombosis. Mehta JL, et al. **J Cardiovasc Pharmacol** 1989 Jun;13(6):803–11
BRL 34915 ameliorates oxygen supply in ischemic myocardium by a simultaneous enhancement of coronary blood flow and a reduction of myocardial function. Rademacher C, et al. **J Cardiovasc Pharmacol** 1990 May; 15(5):808–15
Effects of pinacidil on myocardial blood flow and infarct size after acute left anterior descending coronary artery occlusion and reperfusion in awake dogs with and without a coexisting left circumflex coronary artery stenosis. Sakamoto S, et al. **J Cardiovasc Pharmacol** 1989 Nov; 14(5):747–55
Coronary vascular reactivity after heart transplantation in dogs: nitroglycerin-induced response. Dumont L, et al. **J Heart Transplant** 1990 May-Jun;9(3 Pt 1):213–8; discussion 219
Pentoxifylline (Trental) does not inhibit dipyridamole-induced coronary hyperemia: implications for dipyridamole-thallium-201 myocardial imaging [see comments] Brown KA, et al. **J Nucl Med** 1990 Jun; 31(6):1020–4 Comment in: J Nucl Med 1990 Jun;31(6):1024–7.
Hyperosmotic mannitol and collateral blood flow to ischemic myocardium. Vlahakes GJ, et al. **J Surg Res** 1989 Nov; 47(5):438–46
Studies on actions of extract of motherwort. Zhang CF, et al. **J Tradit Chin Med** 1982 Dec;2(4):267–70
The dopamine-induced coronary vasoconstrictor response is potentiated by adenosine administration in the dog heart. Kollár A, et al. **Jpn Heart J** 1989 Sep;30(5):709–21
Beneficial effect of nipradilol (K-351) on acute myocardial ischemia. Study of the relationship between regional myocardial blood flow and energy metabolism [published erratum appears in Jpn J Pharmacol 1990 Apr;52(4):657] Okamoto Y, et al. **Jpn J Pharmacol** 1990 Feb;52(2):371–7
Effect of combined dopamine and bunazosin on the ischemic heart after occlusion of the coronary artery. Katoh T, et al. **Jpn J Surg** 1990 Jul;20(4):429–36
Effect of chronic cocaine administration and cocaine withdrawal on coronary flow rate and heart rate responses to epinephrine and cocaine in isolated perfused rat hearts. Avakian EV, et al. **Life Sci** 1990;46(22):1569–74
Relationship between coronary flow and high energy phosphates in the isolated perfused rat heart, with special reference to the effects of anoxia, iodoacetic acid, and 2,4-dinitrophenol. Shibano T, et al. **Methods Find Exp Clin Pharmacol** 1989 Sep;11(9):567–75
Coronary effects of neuropeptides in dogs: role of cyclooxygenase products as mediators. Ertl G, et al. **Prog Clin Biol Res** 1989;301:459–62
The increase in coronary flow induced by converting enzyme inhibitors is prostacyclin independent. Tio RA, et al. **Prog Clin Biol Res** 1989;301:435–9
Effect of high dose norepinephrine versus epinephrine on cerebral and myocardial blood flow during CPR. Hoekstra JW, et al. **Resuscitation** 1990 Jun;19(3):227–40
Adenosine-induced increase in graft flow during coronary bypass surgery. Torssell L, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):235–9
Effects of nitroprusside on regional myocardial blood flow and metabolism in the infarcted heart. Sewell RW, et al. **Surg Forum** 1978;29:244–6
Myocardial protective effects of lidoflazine during ischemia and reperfusion. Guvendik L, et al. **Thorac Cardiovasc Surg** 1990 Feb;38(1):15–9
Correlation between isosorbide dinitrate plasma levels and coronary vasodilation after chewing capsules. Jost S, et al. **Z Kardiol** 1989;78 Suppl 2:106–8; discussion 115–7
Coronary vasodilation with nitrocompounds—is there a maximum? Jost S, et al. **Z Kardiol** 1989;78 Suppl 2:38–40; discussion 64–7
Improved left ventricular function and topography by prolonged nitroglycerin therapy after acute myocardial infarction. Jugdutt BI, et al. **Z Kardiol** 1989;78 Suppl 2:127–9; discussion 142–4
Failure of the sulfhydryl donor N-acetylcysteine (NAC) to reverse nitrate tolerance in large epicardial arteries and the venous capacitance system of the dog. Münzel T, et al. **Z Kardiol** 1989;78 Suppl 2:26–8; discussion 64–7
Endothelial protection by defibrotide—a new strategy for treatment of myocardial infarction? Schrör K, et al. **Z Kardiol** 1989;78 Suppl 6:35–41
Biphasic effect of nitroglycerin on coronary hemodynamics in normal subjects. Simonetti I, et al. **Z Kardiol** 1989;78 Suppl 2:52–5; discussion 64–7
[The effects of flumazenil on coronary circulation and left ventricular performance in coronary patients] Marty J, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R6 (Fre)
[Does the combination of trinitrine-dobutamine alter the relation between coronary output/myocardial function in man?] Sirodot M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R106 (Fre)
[Effect of inhalation anesthetics on the myocardium] Hobbhahn J, et al. **Anaesthesist** 1989 Oct;38 Suppl 2:S561–96 (310 ref.) (Eng. Abstr.) (Ger)
[Beta-adrenolytic and electrocardiographic effects using pitressin] Marmo E, et al. **Angiologica** 1967;4(5):256–70 (Ger)
[Cardioprotection with drugs. 1: Coronary heart disease] Michel D. **Fortschr Med** 1990 Jan 30;108(3):40–4 (50 ref.) (Eng. Abstr.) (Ger)
[New aspects of the mechanism of action of molsidomine. Proceedings of a discussion by cardiology experts. Berlin, 15 April 1989] **Med Klin** 1990 Feb;85 Suppl 1:3–26 (Ger)
[Pharmacology of molsidomine and its active metabolites] Böhme E. **Med Klin** 1990 Feb;85 Suppl 1:7–10 (0 ref.) (Ger)
[Inhibition of platelet aggregation by endothelium-derived relaxing factor-like agents] Gerzer R, et al. **Med Klin** 1990 Feb;85 Suppl 1:18–22 (23 ref.) (Eng. Abstr.) (Ger)
[Selective action of calcium antagonists] Heinzl S. **Med Monatsschr Pharm** 1990 Mar;13(3):66–8 (Ger)
[The effect of ionic and nonionic x-ray contrast media on myocardial perfusion and myocardial function] Jonczyk A, et al. **Radiol Diagn (Berl)** 1989;30(3):314–9 (Eng. Abstr.) (Ger)
[The effect of ionic and nonionic contrast media (amidotrizoate, iopromide) on cardiac function (contractility, relaxation, perfusion)] Modersohn D, et al. **Radiol Diagn (Berl)** 1989;30(3):320–3 (Eng. Abstr.) (Ger)
[Effects of prostaglandin E1 on O2 utilization and vascular resistance. Results of experimental and clinical studies] Stark G, et al. **Vasa Suppl** 1989;27:39 (Ger)
[Significance of 2-dimensional echocardiography for the diagnosis of dipyridamole-induced myocardial ischemia in patients with coronary heart disease] Gawor Z, et al. **Z Gesamte Inn Med** 1990 Jan 1;45(1):5–8 (Eng. Abstr.) (Ger)
[Do thrombocyte aggregation inhibitors modify silent episodes of unstable angina pectoris in combined anti-angina therapy?] Eber B, et al. **Z Kardiol** 1989;78 Suppl 2:150–4; discussion 159 (Eng. Abstr.) (Ger)
[The effect of intravenous nifedipine administration on coronary occlusion during coronary angioplasty on ischemia tolerance and collateral function] Ischinger T, et al. **Z Kardiol** 1990 Mar;79(3):166–75 (Eng. Abstr.) (Ger)
[Differential therapy of myocardial ischemia in females] Neumann E, et al. **Z Kardiol** 1989;78 Suppl 2:109–11; discussion 115–7 (Eng. Abstr.) (Ger)
[Effect of calcium antagonists and beta receptor blockers on coronary vessel diameter] Rafflenbeul W, et al. **Z Kardiol** 1989;78 Suppl 5:16–9 (Eng. Abstr.) (Ger)
[Anti-angina and coronary dilating effect of low-dose

nitroglycerin] Sievert H, et al. **Z Kardiol** 1989;78 Suppl 2:48–51; discussion 64–7 (Eng. Abstr.) (Ger)

[Combination therapy with isosorbide dinitrate and verapamil in patients with coronary heart disease and hypertension: effect on blood pressure, ischemia and left ventricular function] Vogler AC, et al. **Z Kardiol** 1989;78 Suppl 2:183–7; discussion 188–9 (Eng. Abstr.) (Ger)

[Comparison of the coronary vasomotor response to nifedipine in syndrome X and in Prinzmetal's angina] Montorsi P, et al. **Cardiologia** 1989 Jun;34(6):507–12 (Eng. Abstr.) (Ita)

[Effects of sublingual administration of nitroglycerin on left anterior descending arterial hemodynamics evaluated with Doppler echocardiography] Omori K, et al. **J Cardiol Suppl** 1989;22:97–9 (Jpn)

[Therapeutic effects of oral dipyridamole on myocardial perfusion and left ventricular function in patients with hypertrophic cardiomyopathy] Kihara K. **Kaku Igaku** 1990 Feb;27(2):107–15 (Eng. Abstr.) (Jpn)

[Effects of nitroglycerin on the graft flow during aortocoronary bypass surgery] Fujiwara T, et al. **Kokyu To Junkan** 1989 Aug;37(8):885–90 (Eng. Abstr.) (Jpn)

[Effect of Ca2+ antagonists on coronary circulation] Kajiwara N, et al. **Nippon Rinsho** 1989 Aug;47(8):1764–9 (Jpn)

[New anti-arrhythmia drug. III. Comparative studies of the effects of N-propionylprocainamide, procainamide and N-acetylprocainamide on hemodynamics and cardiac blood flow] Kusowska J, et al. **Acta Pol Pharm** 1989; 46(2):187–94 (Eng. Abstr.) (Pol)

[The effect of captopril on the coronary circulation in a clinical and experimental study] Hăulică I, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Oct–Dec;93(4):741–6 (Eng. Abstr.) (Rum)

[Effect of nitrous oxide on myocardial activity and blood supply in patients with ischemic heart disease] Vasil'ev AV, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):7–9 (Eng. Abstr.) (Rus)

[The effect of nitrous oxide on myocardial work and blood supply in IHD patients] Vasil'ev AV, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):102–3 (Rus)

[The effect of bonnecor on cardiac hemodynamics, blood supply and function in experimental myocardial ischemia] Chichkanov GG, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):38–40 (Eng. Abstr.) (Rus)

[Prevention of stress-induced changes in coronary autoregulation of vasodilative reserve of the coronary vessels and contractile function of the isolated heart with small doses of thyroid hormones] Bozhko AP, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):30–5 (Eng. Abstr.) (Rus)

[Effect of labetalol on hemodynamics and oxygen consumption in patients in the early period of myocardial infarction] Gvatua NA, et al. **Kardiologiia** 1990 Apr; 30(4):30–3 (Eng. Abstr.) (Rus)

[Relation between the systemic fibrinolytic status and coronary reperfusion during thrombolytic therapy with streptokinase of patients with acute myocardial infarction] Markov VA, et al. **Kardiologiia** 1989 Sep;29(9):92–4 (Rus)

[Effect of the intravenous administration of finoptin on coronary venous blood flow in patients with ischemic heart disease] Uchaĭkina LV, et al. **Kardiologiia** 1990 Feb; 30(2):24–9 (Eng. Abstr.) (Rus)

[Effect of Bonnecor on clinical manifestations, bioelectric cardiac activity and cardiac hemodynamics in patients with acute myocardial infarction and chronic ischemic heart disease] Ol'binskaia LI, et al. **Klin Med (Mosk)** 1990 Feb; 68(2):44–6 (Eng. Abstr.) (Rus)

[Comparative cardiovascular effects of nifedipine in anesthetized dogs] Mosca SM, et al. **Acta Physiol Pharmacol Latinoam** 1987;37(4):467–77 (Eng. Abstr.) (Spa)

[Comparative study of iohexol and iopamidol as cardioangiographic contrast media] Esplugas E, et al. **Rev Esp Cardiol** 1990 Feb;43(2):84–6 (Eng. Abstr.) (Spa)

PHYSIOLOGY

Noninvasive approach to evaluate coronary reserve. Ferro G, et al. **Acta Cardiol** 1990;45(3):211–6

Effect of abruptly increased intrathoracic pressure on coronary blood flow velocity in patients. Kern MJ, et al. **Am Heart J** 1990 Apr;119(4):863–70

Significance of laminar systolic regurgitant flow in patients with tricuspid regurgitation: a combined pulsed-wave, continuous-wave Doppler and two-dimensional echocardiographic study. Minagoe S, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):627–35

Relationship between regional myocardial blood flow and the distribution of 99mTc-sestamibi in the presence of total coronary artery occlusion. Mousa SA, et al. **Am Heart J** 1990 Apr;119(4):842–7

Physiologic role of coronary PGI2 and PGE2 in modulating coronary vascular response to sympathetic stimulation. Neri Serneri GG, et al. **Am Heart J** 1990 Apr;119(4):848–54

Effect of stenosis on exercise-induced dilation of large coronary arteries. Schwartz JS, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):520–4

Beneficial effect of residual flow to the infarct region on left ventricular volume changes after acute myocardial infarction. Shen WF, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):525–9

Effects of atrial pacing and dipyridamole administration on coronary hemodynamics of collateralized myocardial regions in stable angina pectoris. De Servi S, et al. **Am J Cardiol** 1990 Mar 15;65(11):703–8

Influence of anterograde flow in the infarct artery on the incidence of late potentials after acute myocardial infarction. Lange RA, et al. **Am J Cardiol** 1990 Mar 1; 65(9):554–8

Significance of coronary circulation in hypertensive heart disease for development and prevention of heart failure. Strauer BE. **Am J Cardiol** 1990 Apr 3;65(14):34G–41G

Disorders of coronary microcirculation and arrhythmias in systemic arterial hypertension. Vogt M, et al. **Am J Cardiol** 1990 Apr 3;65(14):45G–50G

Long-term survival from acute myocardial infarction: salutary effect of an open coronary vessel. Fortin DF, et al. **Am J Med** 1990 Jan;88(1N):9N–15N (58 ref.)

Independent role of arterial O2 tension in local control of coronary blood flow. Baron JF, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1388–94

Microvascular occlusions promote coronary collateral growth. Chilian WM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1103–11

Cholinergic regulation of resting coronary blood flow in domestic swine. Cowan CL, et al. **Am J Physiol** 1990 Jul; 259(1 Pt 2):H109–15

Coronary flow limits right ventricular performance during positive end-expiratory pressure. Schulman DS, et al. **Am Rev Respir Dis** 1990 Jun;141(6):1531–7

Coronary collateral regression in conscious dogs. Fujita M, et al. **Angiology** 1990 Aug;41(8):621–30

Fractal branchings: the basis of myocardial flow heterogeneities? Bassingthwaighte JB, et al. **Ann N Y Acad Sci** 1990;591:392–401 (14 ref.)

Mechanical determinants of myocardial blood flow and its distribution. Archie JP Jr. **Ann Thorac Surg** 1975 Jul; 20(1):39–45 (15 ref.)

Studies of regional coronary flow using radioactive microspheres. Buckberg GD. **Ann Thorac Surg** 1975 Jul; 20(1):46–51

Coronary flow velocity waveforms in aortic stenosis and the effects of valve replacement. Fujiwara T, et al. **Ann Thorac Surg** 1989 Oct;48(4):518–22

The coronary stress of skiing at high altitude. Grover RF, et al. **Arch Intern Med** 1990 Jun;150(6):1205–8

Regulation of coronary circulation during left ventricular assist. Noda H, et al. **ASAIO Trans** 1989 Jul–Sep; 35(3):445–7

Regional myocardial blood flow and cardiac mechanics in dog hearts with CO2 laser-induced intramyocardial revascularization. Hardy RI, et al. **Basic Res Cardiol** 1990 Mar–Apr;85(2):179–97

Involvement of lysosome-like particles in the metabolism of endogenous myocardial triglycerides during ischemia/reperfusion. Uptake and degradation of triglycerides by lysosomes isolated from rat heart. Schoonderwoerd K, et al. **Basic Res Cardiol** 1990 Mar–Apr; 85(2):153–63

Physiological hypotheses—intramyocardial pressure. A new concept, suggestions for measurement. Westerhof N. **Basic Res Cardiol** 1990 Mar–Apr;85(2):105–19 (73 ref.)

Whole heart distribution of myocardial perfusion, metabolism and myocardial viability by positron emission tomography. Araujo LI, et al. **Br Med Bull** 1989 Oct;45(4):922–32 (11 ref.)

Perfusion imaging. Tweddel AC, et al. **Br Med Bull** 1989 Oct;45(4):896–921 (125 ref.)

Improvement of ST segment depression by gradual recruitment of collateral circulation. Tanaka K, et al. **Cardiology** 1990;77(1):17–24

Increased myocardial microvascular utilisation and flow during atrial pacing. Acad BA, et al. **Cardiovasc Res** 1989 Dec;23(12):1027–33

Effect of prolonged hypothermic ischaemia on myocardial sarcoplasmic reticular calcium transport. Fukumoto K, et al. **Cardiovasc Res** 1990 Mar;24(3):169–75

Effects of haemorrhage induced hypotension on coronary blood flow in an anaesthetised two vessel canine coronary stenosis-occlusion model. Gascho JA, et al. **Cardiovasc Res** 1990 Mar;24(3):176–81

Myocardial surface PO2—an indicator of myocardial tissue oxygenation? Hobbhahn J, et al. **Cardiovasc Res** 1989 Jun; 23(6):529–40

Effect of hyper- and hypovolaemia on regional myocardial oxygen consumption. Scholz PM, et al. **Cardiovasc Res** 1990 Feb;24(2):81–6

Importance of myocardial ischaemia for recruitment of coronary collateral circulation in dogs. Yamanishi K, et al. **Cardiovasc Res** 1990 Apr;24(4):271–7

Estimation of coronary flow reserve by intracoronary Doppler flow probes and digital angiography. Graham SP, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):214–21

Accuracy of 20-MHz Doppler catheter coronary artery velocimetry for measurement of coronary blood flow velocity. Tadaoka S, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):205–13

Intrinsic myocardial dysfunction during endotoxemia: dependent or independent of myocardial ischemia? Adams HR, et al. **Circ Shock** 1990 Jan;30(1):63–76 (68 ref.)

Validation of [1-11C]acetate as a tracer for noninvasive assessment of oxidative metabolism with positron emission tomography in normal, ischemic, postischemic, and hyperemic canine myocardium. Armbrecht JJ, et al. **Circulation** 1990 May;81(5):1594–605

Effect of coronary stenosis on myocardial blood flow during exercise in the chronically pressure-overloaded hypertrophied left ventricle. Bache RJ, et al. **Circulation** 1990 Jun;81(6):1967–73

Circulatory effects of carotid sinus nerve stimulation in dogs with reference to coronary flow and resistance. Falicov RE, et al. **Circulation** 1970 May;41(5 Suppl):II172–8

Effects of graded reductions in coronary perfusion pressure on the diastolic pressure-segment length relation and the rate of isovolumic relaxation in the resting conscious dog. Farhi ER, et al. **Circulation** 1989 Nov;80(5):1458–68

Tolerance of the hypertrophic heart to ischemia. Studies in compensated and failing dog hearts with pressure overload hypertrophy. Gaasch WH, et al. **Circulation** 1990 May; 81(5):1644–53

Myocardial lactate release during ischemia in swine. Relation to regional blood flow. Guth BD, et al. **Circulation** 1990 Jun;81(6):1948–58

Myocardial blood flow in man as measured by a coincidence counting system and a single bolus of 84RbCl. Knoebel SB, et al. **Circulation** 1967 Aug;36(2):187–96

Effect of the hemopump left ventricular assist device on regional myocardial perfusion and function. Reduction of ischemia during coronary occlusion. Merhige ME, et al. **Circulation** 1989 Nov;80(5 Pt 2):III158–66

Alteration of endothelium-dependent distribution of myocardial blood flow after coronary occlusion and reperfusion. Pelc LR, et al. **Circulation** 1990 Jun; 81(6):1928–37

Endothelial modulation of the coronary vasculature in vessels perfused via mature collaterals. Sellke FW, et al. **Circulation** 1990 Jun;81(6):1938–47

Endothelium-dependent dilation of the coronary microvasculature is impaired in dilated cardiomyopathy. Treasure CB, et al. **Circulation** 1990 Mar;81(3):772–9

Reduced subendocardial coronary reserve. A potential mechanism for impaired diastolic function in the hypertrophied and failing heart. Vatner SF, et al. **Circulation** 1990 Feb;81(2 Suppl):III8–14

An artery has many masters [comment] Wilson RF. **Circulation** 1990 Mar;81(3):1147–50 Comment on: Circulation 1990 Mar;81(3):850–9.

Postischemic mechanical and vascular dysfunction (myocardial "stunning" and microvascular "stunning") and the effects of calcium-channel blockers on ischemia/reperfusion injury. Bolli R, et al. **Clin Cardiol** 1989 Jul;12(7 Suppl 3):III16–25 (75 ref.)

Intrathoracic microvascular circulation in haemorrhagically shocked rats. Studies by fluorescence techniques. Perbeck L, et al. **Clin Physiol** 1989 Dec;9(6):567–79

Noninvasive measurement of blood flow and perfusion. Rumberger JA. **Curr Opin Radiol** 1990 Aug;2(4):567–74 (9 ref.)

Flow-dependent regulation of coronary vasomotor tone. Bassenge E. **Eur Heart J** 1989 Nov;10 Suppl F:22–7 (32 ref.)

Coronary flow increases induced by adenosine and adenine nucleotides are mediated by the coronary endothelium: a new principle of the regulation of coronary flow. Nees S. **Eur Heart J** 1989 Nov;10 Suppl F:28–35

Coronary stenosis vasomotion during dynamic exercise before and after PTCA. Suter TM, et al. **Eur Heart J** 1989 Dec;10 Suppl G:58–63

Post-infarction ventricular septal defect: the importance of right ventricular coronary perfusion in determining surgical outcome. Angelini GD, et al. **Eur J Cardiothorac Surg** 1989; 3(2):156–61

Satellite symposium of the 4th International Symposium on Adenosine and Adenine Nucleotides: Regulation of Coronary Blood Flow. May 18–19, 1990, Kobe, Japan. Abstracts. **Heart Vessels Suppl** 1990;4:1–92

Markers of myocardial blood flow. Dey HM. **Int J Rad Appl Instrum [B]** 1990;17(1):157–60 (28 ref.)

Chest pain with normal coronary angiograms: is the heart innocent or guilty? [comment] Cannon RO 3d. **J Am Coll Cardiol** 1990 Sep;16(3):596–8 Comment on: J Am Coll Cardiol 1990 Sep;16(3):586–95.

Comparison of coronary hemodynamics in patients with internal mammary artery and saphenous vein coronary artery bypass grafts: a noninvasive approach using combined two-dimensional and Doppler echocardiography [see comments] Fusejima K, et al. **J Am Coll Cardiol** 1990 Jan;15(1):131–9 Comment in: J Am Coll Cardiol 1990 Jan;15(1):140–2.

Increased myocardial perfusion at rest and diminished perfusion reserve in patients with angina and angiographically normal coronary arteries [see comments] Geltman EM, et al. **J Am Coll Cardiol** 1990 Sep; 16(3):586–95 Comment in: J Am Coll Cardiol 1990 Sep;16(3):596–8.

Determination of coronary flow reserve by digital angiography: validation of a practical method not requiring power injection or electrocardiographic gating [see comments] Gurley JC, et al. **J Am Coll Cardiol** 1990 Jul; 16(1):190–7 Comment in: J Am Coll Cardiol 1990 Jul;16(1):198–9.

Relations among impaired coronary flow reserve, left ventricular hypertrophy and thallium perfusion defects in

hypertensive patients without obstructive coronary artery disease. Houghton JL, et al. **J Am Coll Cardiol** 1990 Jan; 15(1):43–51

Progressive failure of coronary flow during reperfusion of myocardial infarction: documentation of the no reflow phenomenon with positron emission tomography. Jeremy RW, et al. **J Am Coll Cardiol** 1990 Sep;16(3):695–704

Duplex Doppler evaluation of coronary artery and bypass graft flow: a practical clinical tool? [comment] Lighty GW Jr. **J Am Coll Cardiol** 1990 Jan;15(1):140–2 Comment on: J Am Coll Cardiol 1990 Jan;15(1):131–9.

Large coronary arteries in humans are responsive to changing blood flow: an endothelium-dependent mechanism that fails in patients with atherosclerosis [see comments] Nabel EG, et al. **J Am Coll Cardiol** 1990 Aug;16(2):349–56 Comment in: J Am Coll Cardiol 1990 Aug;16(2):357–8.

Positron emission tomography and the quantitative assessment of regional myocardial blood flow [comment] Soufer R, et al. **J Am Coll Cardiol** 1990 Jan;15(1):128–30 Comment on: J Am Coll Cardiol 1990 Jan;15(1):119–27.

The significance of coronary reserve in clinical heart disease. Strauer BE. **J Am Coll Cardiol** 1990 Mar 15;15(4):775–83

Augmented myocardial perfusion reserve after coronary angioplasty quantified by positron emission tomography with H2(15)O [see comments] Walsh MN, et al. **J Am Coll Cardiol** 1990 Jan;15(1):119–27 Comment in: J Am Coll Cardiol 1990 Jan;15(1):128–30.

Endothelium-dependent vasodilating effect of substance P during flow-reducing coronary stenosis in the dog. Yatani A, et al. **J Am Coll Cardiol** 1990 May;15(6):1374–84

Evaluation of reperfusion hyperemia with myocardial contrast echocardiography. Armstrong WF, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):322–32

A model approach to in situ coronary autoregulation. Guiot C. **J Biomed Eng** 1990 Mar;12(2):129–37

Coronary autoregulation. Feigl EO. **J Hypertens Suppl** 1989 Sep;7(4):S55–8; discussion S59 (44 ref.)

Structure and function of ion channels in the heart and the vascular system. May 8–11, 1990, Chicago, IL. Abstracts. **J Mol Cell Cardiol** 1990 Mar;22 Suppl 1:S1–49

Interrelations between coronary artery pressure, myocardial metabolism and coronary blood flow. Feigl EO, et al. **J Mol Cell Cardiol** 1990 Apr;22(4):375–90

Noninvasive assessment of coronary collaterals in man by PET perfusion imaging [see comments] Demer LL, et al. **J Nucl Med** 1990 Mar;31(3):259–70 Comment in: J Nucl Med 1990 Mar;31(3):271–3.

Limited myocardial perfusion reserve in patients with left ventricular hypertrophy [see comments] Goldstein RA, et al. **J Nucl Med** 1990 Mar;31(3):255–8 Comment in: J Nucl Med 1990 Mar;31(3):271–3.

Noninvasive quantification of regional myocardial blood flow: assessment of myocardial perfusion reserve and collateral circulation [comment] Schelbert HR, et al. **J Nucl Med** 1990 Mar;31(3):271–3 Comment on: J Nucl Med 1990 Mar;31(3):255–8. Comment on: J Nucl Med 1990 Mar;31(3):259–70.

Dynamic response of the coronary circulation to a rapid change in its perfusion in the anaesthetized goat. Dankelman J, et al. **J Physiol (Lond)** 1989 Dec;419:703–15

System analysis of the dynamic response of the coronary circulation to a sudden change in heart rate. Dankelman J, et al. **Med Biol Eng Comput** 1990 Mar;28(2):139–48

Discrepancies between myocardial blood flow and fiber shortening in the ischemic border zone as assessed with video mapping of epicardial deformation. Prinzen FW, et al. **Pflugers Arch** 1989 Nov;415(2):220–9

Histochemical investigation of myocardial proteases in heart anoxia, under protection with cardioplegic solution and protease inhibitors. Gabrielescu E, et al. **Physiologie** 1989 Apr–Jun;26(2):101–10

Dye circulation times during cardiac arrest. Emerman CL, et al. **Resuscitation** 1990 Jan;19(1):53–60

Acute blood pressure reduction in the presence of hypertensive cardiac hypertrophy: any interference with coronary circulation? Guazzi MD, et al. **Scand J Clin Lab Invest Suppl** 1989;196:53–61 (17 ref.)

Coronary flow reserve in arterial hypertension. Vogt M, et al. **Scand J Clin Lab Invest Suppl** 1989;196:7–15 (16 ref.)

Dissociation of platelet activation and spontaneous myocardial ischemia in unstable angina. Vejar M, et al. **Thromb Haemost** 1990 Apr 12;63(2):163–8

The adenosine hypothesis of metabolic regulation of coronary flow in the light of newly recognized properties of the coronary endothelium. Nees S. **Z Kardiol** 1989;78 Suppl 6:42–9 (39 ref.)

[In vitro study of functional parameters and cardiac arrhythmia in localized ischemia followed by reperfusion in two rat strains (Sprague Dawley and Wistar)] Javouhey A, et al. **C R Soc Biol (Paris)** 1989;183(6):530–6 (Eng. Abstr.) (Fre)

[Significance of endothelium-derived relaxing factor for the pathophysiologic understanding of coronary heart disease] Bassenge E. **Med Klin** 1990 Feb;85 Suppl 1:3–7 (17 ref.) (Ger)

[Atherosclerosis and endothelium-derived relaxing factor] Bossaller C, et al. **Med Klin** 1990 Feb;85 Suppl 1:13–8 (43 ref.) (Ger)

[Endothelium-dependent modulation of circulation and thrombocyte function by endothelium-derived relaxing factor, an "endogenous nitro-vasodilator"] Pohl U. **Med Klin** 1990 Feb;85 Suppl 1:10–3 (16 ref.) (Ger)

[Cardiac positron emission tomography—current status and future perspectives] Armbrecht JJ, et al. **Z Kardiol** 1990 Mar;79(3):151–60 (78 ref.) (Eng. Abstr.) (Ger)

[Protective function of collaterals in percutaneous transluminal coronary angioplasty] Reifart N, et al. **Z Kardiol** 1990 Jun;79(6):446–9 (Eng. Abstr.) (Ger)

[Non-Q wave and Q wave myocardial infarct: correlation with regional myocardial perfusion, wall function and prognosis within 1 year] Salge D, et al. **Z Kardiol** 1990 Apr;79(4):261–7 (Eng. Abstr.) (Ger)

["Myocardial bridge" and "intramural LAD pathway" are not just a semantic problem] Lisanti P, et al. **Minerva Cardioangiol** 1989 Sep;37(9):389–93 (Eng. Abstr.) (Ita)

[Discrepancies between wall motion abnormalities and regional myocardial perfusion in patients with myocardial infarction: evaluation by myocardial contrast echocardiography] Lim YJ, et al. **J Cardiol** 1989 Jun; 19(2):343–50 (Eng. Abstr.) (Jpn)

[Myocardial perfusion assessed by dynamic computed tomography, with respect to viable muscle in the infarcted region] Mori T, et al. **J Cardiol** 1989 Jun;19(2):425–31 (Eng. Abstr.) (Jpn)

[Intraventricular flow dynamics in hypertrophic cardiomyopathy with midventricular obstruction investigated by Doppler echocardiography] Nakamura T, et al. **J Cardiol** 1989 Jun;19(2):455–71 (Eng. Abstr.) (Jpn)

[Influence factors on coronary collateral development] Morimoto S, et al. **Kokyu To Junkan** 1989 Oct; 37(10):1103–7 (Eng. Abstr.) (Jpn)

[Experimental study on right ventricular function during left heart bypass—in a coronary septal branch ligation model] Matsuyama Y. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Feb;38(2):185–93 (Eng. Abstr.) (Jpn)

[Evaluation of aortocoronary bypass operation using a He-Ne laser flowmeter—comparison between internal mammary artery grafts and saphenous vein grafts] Mizutani T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):389–95 (Eng. Abstr.) (Jpn)

[Ultrasonic diagnosis of atrial septal defect with normal pressure of the right ventricle and left-to-right shunt] Rydlewska-Sadowska W, et al. **Kardiol Pol** 1989;32 Suppl 2:67–70 (Eng. Abstr.) (Pol)

[Morphofunctional characteristics of the myocardium and regional lymph nodes of the heart in experimental myocardial ischemia under the effect of radon water on the body] Bikbulatov ZT, et al. **Arkh Anat Gistol Embriol** 1990 Mar;98(3):59–64 (Eng. Abstr.) (Rus)

[The capillary system of the rat heart in occlusion of the coronary artery] Sisakian SA, et al. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):15–8 (Eng. Abstr.) (Rus)

[The temperature of the internal environment as one of the mechanisms regulating the internal organs. The regulation of the rate of cardiac contractions by the temperature of the venous inflow] Samonina GE. **Biol Nauki** 1990;(4):6–21 (99 ref.) (Eng. Abstr.) (Rus)

[Hyperkalemic normothermic hypoperfusion of the isolated heart] Olelnikov OD, et al. **Fiziol Zh** 1989 Sep–Oct; 35(5):72–5 (Eng. Abstr.) (Rus)

[The interrelations of arterial pressure, cardiac output and coronary blood flow during orthostatic reactions] Osadchil LI, et al. **Fiziol Zh SSSR** 1989 Aug;75(8):1126–32 (Eng. Abstr.) (Rus)

[Catheterization of the right heart and pulmonary artery: the main parameters of central hemodynamics] Kosminskii PG, et al. **Kardiologiia** 1990 Jan;30(1):90–5 (Rus)

[Development of left-ventricular aneurysm in relation to the status of the coronary bed in patients with a history of myocardial infarction] Kuliev OA, et al. **Kardiologiia** 1990 Apr;30(4):22–5 (Eng. Abstr.) (Rus)

[Changes in blood circulation in the post-resuscitation period of acute myocardial infarction] Lisachenko GV, et al. **Kardiologiia** 1989 Sep;29(9):87–9 (Eng. Abstr.) (Rus)

[Intracardiac hemodynamics in middle-aged and elderly persons (data of echocardiographic study)] Parkhomenko IS, et al. **Kardiologiia** 1989 Sep;29(9):67–70 (Eng. Abstr.) (Rus)

[Relation between microcirculatory disorders and coronary circulation in patients with a history of myocardial infarction (clinico- angiographic study)] Tepliakov AT, et al. **Kardiologiia** 1990 Apr;30(4):18–22 (Eng. Abstr.) (Rus)

[Functional and metabolic changes in the heart during the adaptation of the body to high altitude hypoxia] Varosian MA. **Kosm Biol Aviakosm Med** 1989 Sep–Oct;23(5):68–70 (Eng. Abstr.) (Rus)

[The blood flow and catecholamine content in different layers of the myocardium in acute left-ventricular failure] Makhmudov SIa, et al. **Patol Fiziol Eksp Ter** 1990 May–Jun;(3):24–7 (Eng. Abstr.) (Rus)

[Coronary circulation in patients with ischemic heart disease with various degrees of arteriosclerosis obliterans of the leg during selection surgical treatment] Fitileva LM, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):23–7 (Eng. Abstr.) (Rus)

[Predicting cardiovascular complications after mitral valve prosthesis based on the data of central and pulmonary hemodynamics] Sherdukalova LF, et al. **Vestn Khir** 1990 Jan;144(1):128 (Rus)

[The age-related characteristics of the contractile function and of the calcium-transport system of the rat myocardium under conditions of restricted coronary perfusion] Frol'kis VV, et al. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr; 26(2):174–81 (Eng. Abstr.) (Rus)

[Clinical and angiographic expression of myocardial ischemia in stable angina as a function of its coronary reserve] Salcedo Arruti A, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):153–61 (Eng. Abstr.) (Spa)

CORONARY DISEASE

see related
CORONARY ARTERY BYPASS
MYOCARDIAL REVASCULARIZATION

International Symposium on Nutrition and Health. Leuven (Belgium), September 7–8, 1989. Proceedings. **Acta Cardiol** 1989;44(6):446–94

Coronary artery-left ventricle fistula [letter; comment] Paulin S. **AJR Am J Roentgenol** 1990 Apr;154(4):898 Comment on: AJR Am J Roentgenol 1989 Nov;153(5):1098.

Aerobic exercise reduces levels of cardiovascular and sympathoadrenal responses to mental stress in subjects without prior evidence of myocardial ischemia. Blumenthal JA, et al. **Am J Cardiol** 1990 Jan 1;65(1):93–8

Cardiology. **Ann Acad Med Singapore** 1990 Jan;19(1):1–117

Sudden death as sole symptom of coronary arteritis. Paul RA, et al. **Ann Med** 1990 Jun;22(3):161–2

Trends in coronary heart disease. The US experience. Higgins MW, et al. **Arch Mal Coeur** 1989 Dec;82(12):2041–7 (22 ref.)

69th annual general meeting of the British Cardiac Society. Torquay, 22–25 May 1990. Abstracts. **Br Heart J** 1990 Jul; 64(1):41–104

Assessment of ischemic injury and protective interventions: the Langendorff versus the working rat heart preparation. Galinanes M, et al. **Can J Cardiol** 1990 Mar;6(2):83–91

Coronary occlusion after failed closure of coronaro-pulmonary fistula with detachable balloon. Meier B. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):237–9

Coronary artery disease (CAD), ischemic heart disease (IHD), or coronary atherosclerosis? [letter] Viamonte M Jr. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):282

Recent advance in cardiovascular disease researches in China. Liu LS, et al. **Chin Med J (Engl)** 1989 May;102(5):319–26

Evolving concepts in ischemic heart disease. San Francisco, California, January 13–15, 1989. Proceedings. **Circulation** 1990 Sep;82(3 Suppl):II1–160

Sudden cardiac death: definition and management of high-risk patients. An international symposium. Anaheim, California, November 15, 1987. Proceedings. **Clin Cardiol** 1988 Mar;11(3 Suppl 2):II1–45

Proceedings of the joint WHO/ISH Symposium on Hypertension and Cardiovascular Disease. Melbourne, Australia, December 4th to 7th, 1988. **Clin Exp Hypertens [A]** 1989;11(5–6):753–1216

Thrombosis in the acute coronary syndromes [editorial] Swan HJ. **Indian Heart J** 1989 Jul–Aug;41(4):210–2

Spontaneous primary dissection of the coronary artery. McDonald GS. **Ir J Med Sci** 1989 Dec;158(12):304–6

Annual meeting of the Israel Heart Society. 29–30 January 1990, Jerusalem, Israel. Abstracts of papers. **Isr J Med Sci** 1990 Apr;26(4):225–39

Silent ischemia, 1974–89. An international workshop. Eilat, Israel, January 1989. Proceedings. **Isr J Med Sci** 1989 Sep; 25(9):477–546

Relations among impaired coronary flow reserve, left ventricular hypertrophy and thallium perfusion defects in hypertensive patients without obstructive coronary artery disease. Houghton JL, et al. **J Am Coll Cardiol** 1990 Jan; 15(1):43–51

"Silent ischemia": what is it? [editorial] Pohost GM. **J Am Coll Cardiol** 1989 Oct;14(4):901–2

Coronary artery disease in young. Mody R. **J Assoc Physicians India** 1989 May;37(5):303–4

Program and abstracts of the XIth meeting of the International Society for Heart Research, (European Section). Glasgow, U.K., 27–30 June 1990. **J Mol Cell Cardiol** 1990 May;22 Suppl 3:S1–153

Program and abstracts of VIIIth meeting (Japanese Section) of the International Society for Heart Research. Niigata City, Japan, 1–2 June 1990. **J Mol Cell Cardiol** 1990 Apr; 22 Suppl 2:S1–58

Program and abstracts of the Oxford International Symposium on Myocardial Preservation into the 21st Century. Oxford, England, August 12–15, 1990. **J Mol Cell Cardiol** 1990 Jul;22 Suppl 5:S1–49

Symposium on myocardial ischemia—Part I. Proceedings. **Mayo Clin Proc** 1990 Feb;65(2):230–73

Silent myocardial ischemia. II. Pathophysiology, relation to risk factors, treatment. Velican C, et al. **Med Interne** 1989 Jul–Sep;27(3):185–95 (19 ref.)

Aerobic and resistive exercise modify risk factors for coronary heart disease. Goldberg AP. **Med Sci Sports Exerc** 1989 Dec;21(6):669–74 (44 ref.)

Coronary artery fistula: an abnormality affecting all age groups. Sapin P, et al. **Medicine (Baltimore)** 1990 Mar; 69(2):101–13

CHD, MI, & I. The story of a 57-year love-hate relationship. Graham JB. **N C Med J** 1989 Oct;50(10):567–70

Coronary artery disease in the elderly. Coodley EL. **Postgrad Med** 1990 Feb 1;87(2):223–8 (17 ref.)

Restenosis after successful percutaneous transluminal coronary angioplasty. Klein LW, et al. **Prog Cardiovasc Dis** 1990 Mar–Apr;32(5):365–82 (136 ref.)

A critical perspective on coronary artery disease and coronary bypass surgery. Bates MS. **Soc Sci Med** 1990; 30(2):249–60 (128 ref.)

[Anesthesia in patients with coronary disease: a new strategy?] Marty J. **Ann Fr Anesth Reanim** 1989;8(5):485–7 (Fre)

[Antihypertensive treatment of silent myocardial ischemia in hypertensives without coronary heart disease] Nunberger D, et al. **Dtsch Med Wochenschr** 1990 Jun 22;115(25):969–73 (Eng. Abstr.) (Ger)

[Swiss Society for Cardiology. Swiss Society for Intensive Care Medicine. Joint annual meeting. Lausanne, 10–12 May 1990. Abstracts] **Schweiz Med Wochenschr Suppl** 1990;32 Pt 2:1–36 (Ger, Fre)

[Abstracts of the autumn meeting of Austrian Cardiology Society. Graz, 29–30 September 1989] **Z Kardiol** 1990 Feb; 79(2):139–44 (Ger)

[21st national cardiology meeting of the National Association of Hospital Cardiologists. Florence, 20–23 May 1990. Abstracts] **G Ital Cardiol** 1990;20 Suppl 1:1–188 (Ita)

[Proceedings of the regional meetings of the Japanese College of Cardiology] **J Cardiol Suppl** 1989;22:1–137 (Jpn)

[Heart diseases in the elderly. 16th meeting of Clinical Cardiology. Tokyo, January 23, 1988. Proceedings] **J Cardiol Suppl** 1988;19:1–66 (Jpn)

[Panel discussion: Syndrome X] **J Cardiol Suppl** 1989;20:11–4 (Jpn)

[The state of the art in cardiology: realities and perspectives of ischemic cardiopathy for the 90's] Ferreira R. **Acta Med Port** 1989 Nov;Suppl 2:S23–31 (119 ref.) (Por)

[Abstracts. 13th Interamerican Meeting on Cardiology, 45th meeting of the Brazilian Society of Cardiology] **Arq Bras Cardiol** 1989 Jul;53 Suppl 1:9–215 (Por)

[1st national meeting of the Portuguese Society of Cardiology. Abstracts] **Rev Port Cardiol** 1990 Mar;9 Suppl 1:I1–110 (Por)

[Ischemic cardiopathy. What is its future? (editorial)] Ribeiro C. **Rev Port Cardiol** 1989 Nov;8(11):743–5 (Por)

[Evaluation of progression and regression of coronary atherosclerosis in long-term prospective studies] Lupanov VP. **Kardiologiia** 1990 May;30(5):99–105 (74 ref.) (Rus)

[5th Panamerican Congress on Diseases of the Chest. San Juan, Puerto Rico, 22–26 April 1990. Abstracts] **Bol Asoc Med P R** 1990 Apr;82(4):145–93 (Spa)

[Women and ischemic cardiopathy] Assmann G, et al. **Rev Clin Esp** 1989 Oct;185(6):308–15 (21 ref.) (Spa)

[The cardiac patient confronting non-cardiac surgery] Alvarez J, et al. **Rev Esp Anestesiol Reanim** 1989 Sep–Oct; 36(5):291–6, 299 (0 ref.) (Spa)

[Abstracts of the 22d National Congress of Cardiology. (25–28 October 1989) Oviedo] **Rev Esp Cardiol** 1989;42 Suppl 2:1–90 (Spa)

BLOOD

Serum selenium levels in distinct manifestations of coronary artery disease. Schaffer-Kronberger E, et al. **Acta Med Austriaca** 1990;17(1):22–4

Cardiovascular risk in young Finns. Experiences from the Finnish Multicentre Study regarding the prevention of coronary heart disease. Viikari J, et al. **Acta Paediatr Scand Suppl** 1990;365:13–9

Future cholesterol levels can be predicted to assess coronary disease risk. **Am Fam Physician** 1989 Aug;40(2):308, 310, 314

Stable angina pectoris and controlled ischemia: what causes the abnormalities in whole blood filterability? Ciuffetti G, et al. **Am Heart J** 1990 Jan;119(1):54–8

Elevation of C-reactive protein in "active" coronary artery disease. Berk BC, et al. **Am J Cardiol** 1990 Jan 15; 65(3):168–72

Effect of elective hospitalization on plasma lipoprotein cholesterol and apolipoproteins A-I, B and Lp(a). Genest JJ, et al. **Am J Cardiol** 1990 Mar 1;65(9):677–9

Dyslipidemias with desirable plasma total cholesterol levels and angiographically demonstrated coronary artery disease. Miller M, et al. **Am J Cardiol** 1990 Jan 1;65(1):1–5

Hemostatic variables in Japanese and Caucasian men. Tissue plasminogen activator, antithrombin III, and protein C and their relations to coronary risk factors. Iso H, et al. **Am J Epidemiol** 1990 Jul;132(1):41–6

Strategies for increasing house staff management of cholesterol with inpatients. Boekeloo BO, et al. **Am J Prev Med** 1990;6(2 Suppl):51–9

Viscoelasticity and red blood cell aggregation in patients with coronary heart disease. Hahn R, et al. **Angiology** 1989 Oct; 40(10):914–20

Production of arrhythmias by elevated carboxyhemoglobin in patients with coronary artery disease [see comments] Sheps DS, et al. **Ann Intern Med** 1990 Sep 1;113(5):343–51 Comment in: Ann Intern Med 1990 Sep 1;113(5):337–8.

Serum HDL2 distribution in patients with coronary heart disease and controls as estimated by a precipitation reaction between HDL2 and an extract of Staphylococcus capitis. Osland A, et al. **APMIS** 1989 Oct;97(10):923–5

Role of apolipoprotein levels in clinical practice. Grundy SM, et al. **Arch Intern Med** 1990 Aug;150(8):1579–82 (29 ref.)

Apolipoproteins A-I and B as predictors of angiographically defined coronary artery disease. Reinhart RA, et al. **Arch Intern Med** 1990 Aug;150(8):1629–33

The functions of blood vessel wall cells in atherogenesis and coronary artery disease. Libby P. **Arq Bras Cardiol** 1989 Aug;53(2):71–4 (40 ref.)

Ischemic heart disease risk in postmenopausal women. Effects of estrogen use on glucose and insulin levels. Barrett-Connor E, et al. **Arteriosclerosis** 1990 Jul–Aug; 10(4):531–4

Phospholipids and other lipids in angiographically assessed coronary artery disease. Bovet P, et al. **Atherosclerosis** 1989 Nov;80(1):41–7

Plasma glucosamine and galactosamine in ischemic heart disease. Olszewski AJ, et al. **Atherosclerosis** 1990 May; 82(1–2):75–83

Correlation between cholesterol content in circulating immune complexes and atherogenic properties of CHD patients' serum manifested in cell culture. Tertov VV, et al. **Atherosclerosis** 1990 Apr;81(3):183–9

Isolation of atherogenic modified (desialylated) low density lipoprotein from blood of atherosclerotic patients: separation from native lipoprotein by affinity chromatography. Tertov VV, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1122–7

Physiologic exercise-induced lymphocytosis [letter] Martina B, et al. **Blut** 1990 Apr;60(4):255–6

ABO blood group and ischaemic heart disease [letter] Boulton FE. **BMJ** 1990 Aug 4;301(6746):290

Disturbances of insulin in British Asian and white men [letter] McKeigue PM. **BMJ** 1989 Nov 4;299(6708):1161–2

Cholesterol testing [letter] Mann J. **BMJ** 1989 Aug 5; 299(6695):391

ABO blood group and ischaemic heart disease in British men. Whincup PH, et al. **BMJ** 1990 Jun 30;300(6741):1679–82

High density lipoprotein cholesterol and triglycerides as markers of angiographically assessed coronary artery disease. Nikkilä M, et al. **Br Heart J** 1990 Feb;63(2):78–81

Lipid peroxidation during myocardial ischaemia induced by pacing. Oldroyd KG, et al. **Br Heart J** 1990 Feb; 63(2):88–92

Serum binding of nifedipine and verapamil in patients with ischaemic heart disease on monotherapy. Rumiantsev DO, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):357–61

Plasma lipid risk factors in oophorectomized women. Montgomery JC, et al. **Br J Obstet Gynaecol** 1989 Oct; 96(10):1236–8

Platelet hyperreactivity and inefficient spontaneous thrombolysis in patients at high risk from an acute coronary event. Peters NS, et al. **Cardiovasc Res** 1989 Jul; 23(7):567–72

Correlations of blood lipids and lipoproteins with coronary artery disease documented by angiography. Qian XX, et al. **Chin Med J [Engl]** 1990 May;103(5):380–4

Triggerlike stimulation of cholesterol accumulation and DNA and extracellular matrix synthesis induced by atherogenic serum or low density lipoprotein in cultured cells. Orekhov AN, et al. **Circ Res** 1990 Feb;66(2):311–20

Prostacyclin, high density lipoproteins, and myocardial ischemia [comment] Lefer AM. **Circulation** 1990 Jun; 81(6):2013–5 Comment on: Circulation 1990 Jun;81(6):1784–91.

New lipoprotein profiles and coronary heart disease. Improving precision of risk [comment] Nestel PJ. **Circulation** 1990 Aug;82(2):649–51 Comment on: Circulation 1990 Aug;82(2):495–506.

The clinical significance of serum high density lipoproteins. Frohlich JJ, et al. **Clin Biochem** 1989 Dec;22(6):417–23 (51 ref.)

Calculated values for low-density lipoprotein cholesterol in the assessment of lipid abnormalities and coronary disease risk. McNamara JR, et al. **Clin Chem** 1990 Jan;36(1):36–42

Lipid and apolipoprotein levels in patients with ischaemic heart disease. A comparative study in Plzeň and Moscow. Steinerová A, et al. **Cor Vasa** 1989;31(4):257–63

Low density lipoprotein-containing circulating immune complexes and coronary atherosclerosis. Tertov VV, et al. **Exp Mol Pathol** 1990 Jun;52(3):300–8

Modelling coronary thrombosis from nonanticoagulated human blood in vitro. Görög P, et al. **Hematol Pathol** 1990; 4(1):43–52

The renin-angiotensin system during acute myocardial ischemia in dogs. Santos RA, et al. **Hypertension** 1990 Feb; 15(2 Suppl):I121–7

Reduction in blood viscosity by treatment with coenzyme Q10 in patients with ischemic heart disease. Kato T, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Mar;28(3):123–6

Assay of apolipoproteins A-1 and B by immunoturbidimetry: detection of individuals at risk for atherosclerotic artery disease. Sullivan D, et al. **Ir J Med Sci** 1990 Mar; 159(3):65–7

Asymptomatic or mildly symptomatic effort-induced myocardial ischemia: plasma beta-endorphin and effect of naloxone. Cantor A, et al. **Isr J Med Sci** 1990 Feb; 26(2):67–71

Endothelial, platelet and leukocyte interactions in ischemic heart disease: insights into potential mechanisms and their clinical relevance. Dinerman JL, et al. **J Am Coll Cardiol** 1990 Jul;16(1):207–22 (162 ref.)

Elevation of factor VII activity and mass in young adults at risk of ischemic heart disease. Hoffman CJ, et al. **J Am Coll Cardiol** 1989 Oct;14(4):941–6

Serum cholesterol binding reserve and its ratio to serum cholesterol in first degree relatives of patients with ischaemic heart disease. Goyal SP, et al. **J Assoc Physicians India** 1990 Jun;38(6):395–7

Serum lipids, lipoproteins and apolipoproteins in black patients with angiographically defined coronary artery disease. Ford ES, et al. **J Clin Epidemiol** 1990;43(5):425–32

Effect of indobufen on whole blood platelet aggregation recorded in the morning in patients with ischaemic heart disease. Craveri A, et al. **J Int Med Res** 1989 Jul–Aug; 17(4):381–7

The influence of extracorporeal circulation and hemoseparation on red cell deformability and membrane proteins in coronary artery disease [see comments] Lohrer RM, et al. **J Thorac Cardiovasc Surg** 1990 Apr;99(4):735–40 Comment in: J Thorac Cardiovasc Surg 1990 Apr;99(4):751–2.

Plasma bradykinin and prostaglandin metabolism and exercise testing in patients with silent myocardial ischemia compared with patients with painful myocardial ischemia. Kurita A, et al. **Jpn Circ J** 1989 Nov;53(11):1466–71

Application of thrombin–antithrombin III complex for detecting a latent hypercoagulable state in patients with coronary artery disease. Uno M, et al. **Jpn Circ J** 1989 Oct;53(10):1185–91

Plasma cholesterol, lipid lowering, and risk for cancer. An update of the results from epidemiologic studies and intervention trials. Lackner KJ, et al. **Klin Wochenschr** 1989 Sep 15;67(18):957–62 (56 ref.)

Apolipoprotein(a) and ischaemic heart disease [letter] Jones AF, et al. **Lancet** 1990 Sep 29;336(8718):813–4

Synergistic effect of prostaglandin E1 and isosorbide dinitrate in peripheral vascular disease. Sinzinger H, et al. **Lancet** 1990 Mar 17;335(8690):627–8

Effects of coronary risk reduction on mortality [letter] [published erratum appears in Lancet 1990 May 26;335(8700):1292] [comment] Spritz N. **Lancet** 1990 Apr 14;335(8694):923 Comment on: Lancet 1990 Feb 3;335(8684):275–7.

Apolipoprotein (a) and ischaemic heart disease [letter] Tomkin GH, et al. **Lancet** 1990 Jul 28;336(8709):251

Apolipoprotein(a) and ischaemic heart disease in familial hypercholesterolaemia. Wiklund O, et al. **Lancet** 1990 Jun 9;335(8702):1360–3

Potassium and magnesium status in ischaemic heart disease. Abraham AS. **Magnes Res** 1988 Jul;1(1–2):53–7 (37 ref.)

High-density lipoprotein—the clinical implications of recent studies. Gordon DJ, et al. **N Engl J Med** 1989 Nov 9; 321(19):1311–6 (52 ref.)

Altered sensitivity to prostacyclin may be involved in the exercise-induced activation of platelets in patients with ischemic heart disease. Kishi Y, et al. **Prog Clin Biol Res** 1989;301:181–5

Plasma HMW fibrinogen in patients with ischaemic heart disease. Munkvad S, et al. **Scand J Clin Lab Invest** 1990 May;50(3):347–9

Laboratory measurement of lipid and lipoprotein risk factors. Warnick GR. **Scand J Clin Lab Invest Suppl** 1990;198:9–19 (17 ref.)

Impaired fibrinolytic capacity and tissue plasminogen activator release in patients with restenosis after percutaneous transluminal coronary angioplasty (PTCA). Kirschstein W, et al. **Thromb Haemost** 1989 Sep 29; 62(2):772–5

Platelet function and exercise-induced myocardial ischaemia in coronary heart disease patients. McGill D, et al. **Thromb Res** 1989 Oct 15;56(2):147–58

Platelet serotonergic mechanisms in ischaemic heart disease. Puri VK, et al. **Thromb Res** 1990 Feb 1;57(3):445–51

Electrophoretic HbA2 assessment in ischemic heart disease. Damyanova L. **Z Med Lab Diagn** 1989;30(8):437–9

[Blood rheologic changes in patients with various clinical forms of ischemic heart disease] Tsekov Kh, et al. **Vutr Boles** 1989;28(4):143–5 (Bul)

[15 years' observation and related research on diagnosis and treatment according to traditional Chinese medicine of elevated serum lipids in 54 cases of coronary disease] Bao J, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr; 10(4):206–8, 196 (Eng. Abstr.) (Chi)

[Relation of pale tongue, purple tongue and TXA2–PGI2 regulation system] Dong G. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr;10(4):219–20, 197 (Eng. Abstr.) (Chi)

[Observation on the fluidity of human erythrocyte membranes in patients with blood stasis syndrome] Hu QF, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul;9(7):405–6, 388 (Eng. Abstr.) (Chi)

[Relation of the level of platelet membrane glycoproteins, platelet adhesion, platelet aggregation and traditional Chinese medicine syndrome patterns of coronary heart disease] Jia BS. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec; 9(12):717–9, 707 (Eng. Abstr.) (Chi)

[Effects of experimental coronary artery stenosis on platelet function] Chen SL, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):285–7, 318 (Eng. Abstr.) (Chi)

[Changes in the deformability of erythrocytes and 2,3-DPG in coronary artery stenosis] Jiang SS, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):288–9, 318–9 (Eng. Abstr.) (Chi)

[Changes in serum sex hormone levels and their relation to blood lipids in male patients with coronary disease] Yang XC, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Jun;

69(6):329-31 (Chi)
[Clinical significance of apolipoprotein B and AI determinations in coronary heart disease] Li JZ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jun;28(6):351-5, 381-2 (Eng. Abstr.) (Chi)
[Serum lipids and apolipoproteins AI, B100, CI, CII, and CIII in 142 patients with coronary heart disease] Liu BW, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun; 20(2):119-22 (Eng. Abstr.) (Chi)
[Relationship of serum lipids, apolipoproteins and sex hormones with coronary heart disease in postmenopausal women] Tan SQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):409-12 (Eng. Abstr.) (Chi)
[The consumption of fibronectin content in coronary artery stenosis in dogs] Chen SL, et al. **Sheng Li Hsueh Pao** 1989 Oct;41(5):518-22 (Eng. Abstr.) (Chi)
[The importance of triglycerides and HDL cholesterol as coronary disease risk factors] Nikkilä M, et al. **Duodecim** 1989;105(15):1307-12 (Fin)
[Minimal lipid anomalies in a group of men with early coronary disease compared to a control group] Heim M, et al. **Ann Cardiol Angeiol (Paris)** 1990 Jan;39(1):13-5 (Eng. Abstr.) (Fre)
[The French consensus on cholesterol and dyalipoproteinemias. The board of directors of ARCOL (French Committee on Coordination of Research on Atherosclerosis and Cholesterol)] **Arch Mal Coeur** 1989 Jul-Aug;82(8):1451-4 (11 ref.) (Fre)
[Relation of an increase of von Willebrand factor in the blood, acute myocardial infarction, unstable angina and coronary thrombosis] Mossard JM, et al. **Arch Mal Coeur** 1989 Nov; 82(11):1813-8 (Eng. Abstr.) (Fre)
[Hemorheologic findings in patients with ischemic heart disease] Kunsch R, et al. **Folia Haematol (Leipz)** 1989; 116(5):803-5 (Eng. Abstr.) (Ger)
[Lipoproteins and coronary heart disease] Windler E. **Verh Dtsch Ges Inn Med** 1989;95:631-4 (13 ref.) (Ger)
[Hyperlipidemia and coronary heart disease] Schützenberger W, et al. **Wien Med Wochenschr Suppl** 1989;105:7-9 (18 ref.) (Eng. Abstr.) (Ger)
[Heart-specific L-myosin in pregnancy and tocolysis therapy] Lechner W, et al. **Z Geburtshilfe Perinatol** 1989 Sep-Oct;193(5):208-10 (Eng. Abstr.) (Ger)
[Increased plasma level of atrial natriuretic peptide in patients with stress-induced coronary insufficiency: stretch-independent release of atrial natriuretic peptide?] Pohl U, et al. **Z Kardiol** 1990 Mar;79(3):193-8 (Eng. Abstr.) (Ger)
[Hemorheologic parameters during the 6 months following myocardial infarct] Tóth K, et al. **Orv Hetil** 1990 Apr 8; 131(14):727-30 (37 ref.) (Eng. Abstr.) (Hun)
[Changes in plasma myoglobin levels in ischemic heart disease] Bastagli L, et al. **G Clin Med** 1989 Dec; 70(12):733-5, 739-42 (Eng. Abstr.) (Ita)
[Serum gamma interferon levels in relation to tumor necrosis factor and interleukin 2 receptor in patients with Kawasaki disease involving coronary-artery lesions] Matsubara T. **Arerugi** 1990 Feb;39(2 Pt 1):118-23 (Eng. Abstr.) (Jpn)
[Cholesterol. Statements of the meeting on cholesterol, The Norwegian Medical Association, Oslo 10-12 October 1989] **Tidsskr Nor Laegeforen** 1989 Nov 30;109(33):3452-6 (Nor)
[Are apolipoproteins better indicators of ischemic heart disease than serum lipids?] Klosiewicz-Latoszek L. **Kardiol Pol** 1989;32(1):41-9 (56 ref.) (Pol)
[The role of neutrophils in the process of myocardial ischemia] Wysocki H, et al. **Kardiol Pol** 1989;32(1):35-40 (34 ref.) (Pol)
[Superoxide dismutase activity and malonic dialdehyde level in blood platelets of patients with coronary disease] Buczyński A, et al. **Pol Tyg Lek** 1989 Jun 5;44(23):548-50 (Eng. Abstr.) (Pol)
[Subpopulations of t lymphocytes in patients with ischemic heart disease] Skopińska-Różewska E, et al. **Pol Tyg Lek** 1989 Feb 6;44(6):147-9 (Eng. Abstr.) (Pol)
[Low density lipoproteins isolated from the blood of patients with ischemic heart disease induce accumulation of lipids in human aortic intima cells] Tertov VV, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):117-9 (Eng. Abstr.) (Rus)
[The platelet factor 4 content of the blood in induced myocardial ischemia in patients with stable stenocardia] Pavlov NA, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):69-71 (Eng. Abstr.) (Rus)
[The amount of thrombocyte alpha 2-adrenoreceptors in patients with different clinical variants in the course of ischemic heart disease] Prusskikh GA, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):65-9 (Eng. Abstr.) (Rus)
[Metabolic effect of lipostabil-forte] Bobkova VI, et al. **Kardiologiia** 1989 Oct;29(10):57-60 (Eng. Abstr.) (Rus)
[Changes in the hormonal profile in patients with ischemic heart disease during physical training] Dudaev VA, et al. **Kardiologiia** 1989 Oct;29(10):71-4 (Eng. Abstr.) (Rus)
[Evaluation of the status of the anticoagulative system of blood in ischemic heart disease based on the calculation of the reserve of blood intracellular heparin] Gabitov SZ, et al. **Kardiologiia** 1990 Jan;30(1):85-7 (Rus)
[Effects of beta adrenergic blocking agents and calcium antagonists on atherogenic properties of blood serum of patients with ischemic heart disease] Kozlov SG, et al. **Kardiologiia** 1990 May;30(5):14-8 (Eng. Abstr.) (Rus)
[The role of erythrocytes in the pathogenesis of functional disorders of blood platelets in patients with ischemic heart disease and the possibilities of their pharmacological correction] Leonova MV, et al. **Kardiologiia** 1990 Apr; 30(4):107-11 (72 ref.) (Rus)
[Pharmacological correction of disorders of the prostacyclin-thromboxane balance in ischemic heart disease: problems and prospects] Markov KhM. **Kardiologiia** 1990 Apr; 30(4):111-8 (141 ref.) (Rus)
[Thrombocytes, lipids and hormones in arteriosclerosis and ischemic heart disease] Mrochek. **Kardiologiia** 1989 Sep; 29(9):102-7 (96 ref.) (Rus)
[Relation between disorders of the rheological properties of the blood and the system of hemostasis in patients with ischemic heart disease] Parfenov AS, et al. **Kardiologiia** 1989 Oct;29(10):47-50 (Eng. Abstr.) (Rus)
[Changes in the levels and composition of lipoproteins and apolipoproteins of blood plasma in patients with ischemic heart disease after hemosorption] Torkhovskaia TI, et al. **Kardiologiia** 1989 Oct;29(10):60-4 (Eng. Abstr.) (Rus)
[Characteristics of the clinical course and serum lipid spectrum in patients with chronic ischemic heart disease with psycho-emotional disorders] Vinogradov VF, et al. **Kardiologiia** 1990 Feb;30(2):88-9 (Rus)
[Changes in the platelet-vascular system of hemostasis in patients with ischemic heart disease and hypertension after the treatment] Zadionchenko VS, et al. **Kardiologiia** 1989 Oct;29(10):51-4 (Eng. Abstr.) (Rus)
[Plasminogen activator inhibitor and protein C: their relation to plasma lipids and lipo- and apoproteins in ischemic heart disease of different duration] Zatelshchikov DA, et al. **Kardiologiia** 1990 Apr;30(4):47-50 (Eng. Abstr.) (Rus)
[A method of studying the aggregative function of thrombocytes] Poliakov AE, et al. **Lab Delo** 1989; (10):19-20 (Eng. Abstr.) (Rus)
[The relation of uric acid metabolism to transferase activity in patients with ischemic heart disease and hypertension] Karvé MD, et al. **Patol Fiziol Eksp Ter** 1990 May-Jun; (3):35-8 (Eng. Abstr.) (Rus)
[The content of basic apoproteins A1 and B and lipids in the blood serum of women with type-I and -II diabetes mellitus and ischemic heart disease] Madanat Ala, et al. **Probl Endokrinol (Mosk)** 1989 Jul-Aug;35(4):3-7 (Eng. Abstr.) (Rus)
[Characteristics of the action of modified atherogenic-class lipoproteins on the functional activity of peripheral blood lymphocytes in patients with ischemic heart disease] Vasil'chenko EM, et al. **Ter Arkh** 1989;61(9):56-9 (Eng. Abstr.) (Rus)
[Properties of plasma low density lipoproteins in patients with hypertriglyceridemia and ischemic heart disease] Kuznetsov AS, et al. **Ukr Biokhim Zh** 1990 May-Jun; 62(3):48-53 (Eng. Abstr.) (Rus)

CHEMICALLY INDUCED

Effect of different vegetable oils on arrhythmias induced by myocardial ischemia in hypercholesterolemic rats. Leprán I, et al. **Acta Physiol Hung** 1990;75 Suppl:195-6
Myocardial ischemia during cocaine withdrawal [see comments] Nademanee K, et al. **Ann Intern Med** 1989 Dec 1;111(11):876-80 Comment in: Ann Intern Med 1990 Apr 1;112(7):548-9. Comment in: Ann Intern Med 1990 May 1;112(9):712.
Critique of the clinical importance of diurectic-induced hypokalemia and elevated cholesterol level . Freis ED. **Arch Intern Med** 1989 Dec;149(12):2640-8 (76 ref.)
Aspirin use and chronic diseases [letter; comment] **BMJ** 1990 Jan 13;300(6717):116-8 Comment on: BMJ 1989 Nov 18;299(6710):1247-50.
Aspirin use and chronic diseases: a cohort study of the elderly [see comments] Paganini-Hill A, et al. **BMJ** 1989 Nov 18; 299(6710):1247-50 Comment in: BMJ 1990 Jan 13;300(6717):116-8.
Hypothesis: warfarin administered simultaneously with heparin infusion will prevent heparin-discontinuance associated coronary thrombosis. Craddock LD, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):73-6
Thromboxane A2 and peptidoleukotrienes contribute to the myocardial ischemia and contractile dysfunction in response to intracoronary infusion of complement C5a in pigs. Ito BR, et al. **Circ Res** 1990 Mar;66(3):596-607
Lack of effect of drinking water barium on cardiovascular risk factors. Wones RG, et al. **Environ Health Perspect** 1990 Apr;85:355-9
Oral contraceptives, insulin resistance and ischemic vascular disease. Eschwège E, et al. **Int J Gynaecol Obstet** 1990 Mar;31(3):263-9
The relative risk of incident coronary heart disease associated with recently stopping the use of beta-blockers. Psaty BM, et al. **JAMA** 1990 Mar 23-30;263(12):1653-7
Fish oil and restenosis rates [letter; comment] Reis GJ, et al. **Lancet** 1989 Oct 28;2(8670):1036 Comment on: Lancet 1989 Sep 16;2(8664):693-4.
Formation of left atrial ball thrombus during anticoagulation in a case of cerebral embolism [letter] Tsuda Y, et al. **Stroke** 1990 Sep;21(9):1375-6
[Myocardial depression induced by propofol (P) is not of ischemic origin] Dupuy P, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R14 (Fre)
[Cardiologic complications related to cocaine] Van Viet H, et al. **Ann Med Interne (Paris)** 1989;140(8):702-8 (69 ref.) (Fre)
[Acute myocardial infarct caused by nicotine-induced erythrocytosis] Andreas S, et al. **Klin Wochenschr** 1989 Oct 2;67(19):1010-3 (Eng. Abstr.) (Ger)
[Acute coronary thrombosis and myocardial ischemia following chemotherapy of Hodgkin's disease] Zeymer U, et al. **Onkologie** 1990 Jun;13(3):221-4 (Eng. Abstr.) (Ger)
[Effect of antidiabetic treatment in ischemic heart diseases] Pogätsa G, et al. **Orv Hetil** 1990 Jan 21;131(3):119-26 (40 ref.) (Eng. Abstr.) (Hun)
[Prolonged myocardial ischemia after the high-dose dipyridamole test] Arfiero S, et al. **G Ital Cardiol** 1989 Nov; 19(11):1055-8 (Eng. Abstr.) (Ita)
[Echophonocardiographic criteria of significant coronary artery disease in hypertensive patients] Huml D, et al. **Med Arh** 1984;38(6):309-16 (Eng. Abstr.) (Ser)
[Syncope and transient coronary ischemia after the first dose of enalapril (letter)] Ortega González G. **Med Clin (Barc)** 1989 Oct 28;93(13):516-7 (Spa)

CLASSIFICATION

The setting of coronary angioplasty in multivessel disease: current status and future directions. Stertzer SH, et al. **Cardiol Clin** 1989 Nov;7(4):771-82
Ischemic heart disease: the old versus the new [comment] Hawkins JW, et al. **J Am Coll Cardiol** 1990 Aug;16(2):311-2 (21 ref.) Comment on: J Am Coll Cardiol 1990 Aug;16(2):304-10.

COMPLICATIONS

Acute myocardial infarction-related coronary artery residual narrowing after intravenous streptokinase: relationship with previous coronary symptoms. Sarmiento RA, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):888-92
Coronary artery disease in patients 35 years of age or older with valvular aortic stenosis. Chobadi R, et al. **Am J Cardiol** 1989 Oct 1;64(12):811-2
Failure of captopril to prevent nitrate tolerance in congestive heart failure secondary to coronary artery disease. Dakak N, et al. **Am J Cardiol** 1990 Sep 1;66(5):608-13
Ambulatory electrocardiographic findings in out-of-hospital cardiac arrest secondary to coronary artery disease. Dubner SJ, et al. **Am J Cardiol** 1989 Oct 1;64(12):801-6
Changes in regional adrenergic tone during sustained ventricular tachycardia associated with coronary artery disease or idiopathic dilated cardiomyopathy. Ellenbogen KA, et al. **Am J Cardiol** 1990 Jun 1;65(20):1334-8
Propranolol in the prevention of ventricular fibrillation due to experimental coronary artery occlusion. Observations on its mode of action. Fearon RE. **Am J Cardiol** 1967 Aug; 20(2):222-8
Effectiveness of propranolol added to a type I antiarrhythmic agent for sustained ventricular tachycardia secondary to coronary artery disease. Friehling TD, et al. **Am J Cardiol** 1990 Jun 1;65(20):1328-33
Influence of ventricular function and presence or absence of coronary artery disease on results of electrophysiologic testing for asymptomatic nonsustained ventricular tachycardia. Hammill SC, et al. **Am J Cardiol** 1990 Mar 15;65(11):722-8
Efficacy of intravenous propranolol for suppression of inducibility of ventricular tachyarrhythmias with different electrophysiologic characteristics in coronary artery disease. Huikuri HV, et al. **Am J Cardiol** 1989 Dec 1; 64(19):1305-9
Day-to-day reproducibility of antiarrhythmic drug trials using programmed extrastimulus techniques for ventricular tachyarrhythmias associated with coronary artery disease. Kudenchuk PJ, et al. **Am J Cardiol** 1990 Sep 15; 66(7):725-30
Evidence for enhanced free radical activity in chronic congestive heart failure secondary to coronary artery disease. McMurray J, et al. **Am J Cardiol** 1990 May 15; 65(18):1261-2
Value of programmed ventricular stimulation in the evaluation and management of patients with nonsustained ventricular tachycardia associated with coronary artery disease. Manolis AS, et al. **Am J Cardiol** 1990 Jan 15; 65(3):201-5
Clinical relevance of exercise-induced ventricular arrhythmias in suspected coronary artery disease. Marieb MA, et al. **Am J Cardiol** 1990 Jul 15;66(2):172-8
Frequency of symptoms suggestive of dynamic coronary artery disease in patients referred for coronary angiography. Nesto RW, et al. **Am J Cardiol** 1989 Dec 1;64(19):1374-6
Treatment of ventricular arrhythmias in the coronary patient: what sort of patient? For which rhythm disorder? With which procedure? Olsson G, et al. **Am J Cardiol** 1989 Dec 5;64(20):57J-60J
Long-term predictors of sudden and low output death in chronic congestive heart failure secondary to coronary artery disease. Rockman HA, et al. **Am J Cardiol** 1989 Dec 1;64(19):1344-8
Argon laser ablation of malignant ventricular tachycardia associated with coronary artery disease. Saksena S, et al. **Am J Cardiol** 1989 Dec 1;64(19):1298-304
Cardiac embolism: the neurologist's perspective. Sherman DG. **Am J Cardiol** 1990 Feb 2;65(6):32C-37C (0 ref.)

Cycle-length response of ventricular tachycardia associated with coronary artery disease to procainamide and amiodarone. Vaitkus PT, et al. **Am J Cardiol** 1990 Sep 15; 66(7):710–4

Reperfusion injury in ischemic myocardium: protective effects of ruthenium red and of nitroprusside. Carry MM, et al. **Am J Cardiovasc Pathol** 1989;2(4):335–44

Small vessel disease (SVD) in patients with unexplained ventricular arrhythmia and dilated congestive cardiomyopathy. Tanganelli P, et al. **Am J Cardiovasc Pathol** 1989;3(1):13–9

Cases in electrocardiography. Zimmers T. **Am J Emerg Med** 1990 May;8(3):238–9

Acute pulmonary edema caused by prolonged myocardial stunning after dipyridamole–thallium imaging. Lette J, et al. **Am J Med** 1989 Oct;87(4):461–3

High frequency of spontaneous acute myocardial infarction due to small coronary artery disease in dead (NZWxBXSB)F1 male mice. Takemura G, et al. **Am J Pathol** 1989 Dec;135(6):989–99

On looking risk in the eye [editorial; comment] Stoeckle JD. **Am J Public Health** 1990 Oct;80(10):1170–1 Comment on: Am J Public Health 1990 Oct;80(10):1200–4.

Epidural anesthesia in patients with coronary artery disease [letter; comment] Curletta JD, et al. **Anesthesiology** 1990 Jan;72(1):214 Comment on: Anesthesiology 1989 Jul;71(1):26–32.

Traumatic coronary arteriovenous fistula communicating the left main coronary artery to pulmonary artery, associated with pulmonary valvular insufficiency and endocarditis: case report. Rangel A, et al. **Angiology** 1990 Feb; 41(2):156–60

Perioperative cardiac complications of surgical repair of infrarenal aortic aneurysms. Gouny P, et al. **Ann Vasc Surg** 1989 Oct;3(4):328–34

Cellular mechanism for ischemic ventricular arrhythmias. Opie LH, et al. **Annu Rev Med** 1990;41:231–8 (25 ref.)

Effects of short-term exposure to carbon monoxide in subjects with coronary artery disease. Kleinman MT, et al. **Arch Environ Health** 1989 Nov–Dec;44(6):361–9

Anaesthetic-related occurrence of early ventricular arrhythmias during acute myocardial ischaemia in rats. Dai S. **Arch Int Physiol Biochim** 1989 Oct;97(5):341–6

Coronary artery ectasia associated with hereditary hemorrhagic telangiectasia. Kurnik PB, et al. **Arch Intern Med** 1989 Oct;149(10):2357–9

Major gynaecological surgery in patients with severe coronary artery disease—the combined approach. Kannan P, et al. **Aust N Z J Obstet Gynaecol** 1990 May;30(2):146–9

Inhibition of postischemic reperfusion arrhythmias by an SOD derivative that circulates bound to albumin with prolonged in vivo half-life. Watanabe N, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3477–83

Cigarette smoking and non-fatal myocardial infarction in women: is the relation independent of coronary artery disease? Freedman DS, et al. **Br Heart J** 1989 Oct; 62(4):273–80

Non-invasive evaluation of the myopathy of coronary artery disease. Noah MS. **Br J Clin Pract** 1989 Jul;43(7):249–51

Comparison of the effects of isobutylmethylxanthine and milrinone on ischaemia-induced arrhythmias and platelet aggregation in anaesthetized rabbits. Holbrook M, et al. **Br J Pharmacol** 1989 Sep;98(1):318–24

Multiple coronary arteriovenous fistulas associated with polymyositis. Endo T, et al. **Cardiology** 1990;77(1):58–61

Congestive heart failure in women: focus on heart failure due to coronary artery disease and diabetes. Kimmelstiel C, et al. **Cardiology** 1990;77 Suppl 2:71–9 (27 ref.)

Coronary artery–left ventricular fistulae with atrial septal defect. Koumi S, et al. **Cardiology** 1989;76(6):461–4

Should asymptomatic patients with coronary artery disease and nonsustained ventricular tachycardia be treated with antiarrhythmic drugs? Epstein LM, et al. **Cardiovasc Clin** 1990;21(1):79–101; discussion 102–4 (185 ref.)

Effects of anaesthesia on acute ischaemic arrhythmias and epicardial electrograms in the pig heart in situ. Bardaji A, et al. **Cardiovasc Res** 1990 Mar;24(3):227–31

Dissociation between reperfusion induced arrhythmias and increases in ventricular alpha 1 receptor density in the anaesthetised rat. Manning AS, et al. **Cardiovasc Res** 1989 Oct;23(10):852–8

Anti-arrhythmic effects of amiodarone and desethylamiodarone on malignant ventricular arrhythmias arising as a consequence of ischaemia and reperfusion in the anaesthetised rat. Riva E, et al. **Cardiovasc Res** 1989 Apr;23(4):331–9

Inhibition of acute platelet thrombosis formation in stenosed canine coronary arteries by specific serotonin 5HT2 receptor antagonist ritanserin. Torr S, et al. **Cardiovasc Res** 1990 Jun;24(6):465–70

Spontaneous cyclic severe mitral regurgitation. Engel PJ, et al. **Cathet Cardiovasc Diagn** 1989 Oct;18(2):102–7

Myxoma with a left-to-left shunt and fistula. Jorens PG, et al. **Chest** 1989 Oct;96(4):945–6

Postischemic recovery of mechanical performance and energy metabolism in the presence of left ventricular hypertrophy. A 31P-MRS study. Buser PT, et al. **Circ Res** 1990 Mar;66(3):735–46

Limitation of myocardial infarct size by superoxide dismutase as an adjunct to reperfusion after different durations of coronary occlusion in the pig [published erratum appears in Circ Res 1990 Sep;67(3):786] Näslund U, et al. **Circ Res** 1990 May;66(5):1294–301

Central beta-adrenergic mechanisms may modulate ischemic ventricular fibrillation in pigs. Parker GW, et al. **Circ Res** 1990 Feb;66(2):259–70

Mechanisms underlying the development of ventricular fibrillation during early myocardial ischemia. Pogwizd SM, et al. **Circ Res** 1990 Mar;66(3):672–95

Ischemic preconditioning reduces infarct size in swine myocardium. Schott RJ, et al. **Circ Res** 1990 Apr; 66(4):1133–42

Intrinsic myocardial dysfunction during endotoxemia: dependent or independent of myocardial ischemia? Adams HR, et al. **Circ Shock** 1990 Jan;30(1):63–76 (68 ref.)

Evaluation of the associations between carotid artery atherosclerosis and coronary artery stenosis. A case-control study. Craven TE, et al. **Circulation** 1990 Oct; 82(4):1230–42

Toward a new understanding of the mechanism and prevention of sudden death in coronary heart disease. Goldstein S. **Circulation** 1990 Jul;82(1):284–8 (53 ref.)

Cardiac tamponade in left ventricular dysfunction. Hoit BD, et al. **Circulation** 1990 Oct;82(4):1370–6

111In platelet scintigraphy and risk stratification for embolization from chronic left ventricular thrombi [comment] Vandenberg BF. **Circulation** 1990 Apr; 81(4):1419–21 Comment on: Circulation 1990 Apr;81(4):1182–9.

Silent ischemia after myocardial infarction. Prognosis, mechanism, and intervention. Yeung AC, et al. **Circulation** 1990 Sep;82(3 Suppl):II143–8 (41 ref.)

Hypertrophic cardiomyopathy evolving into a hypokinetic and dilated left ventricle: coronary embolization as a probable pathogenetic mechanism. Gravanis MB, et al. **Clin Cardiol** 1990 Jul;13(7):500–5

Cardiovascular reactivity and silent ischemia in response to mental stress in symptomatic and asymptomatic coronary artery disease patients: results of a pilot study. Norvell N, et al. **Clin Cardiol** 1989 Nov;12(11):634–8

Unreported symptomatic and asymptomatic ischaemic heart disease in patients presenting with TIA or minor stroke detected by the London School of Hygiene Cardiovascular Questionnaire and Minnesota coding of a routine ECG. Gates P, et al. **Clin Exp Neurol** 1987;24:21–5

Hypothesis: ischaemic plaque necrosis as the initiator of unstable angina/acute myocardial infarction? Boyd GW. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):215–8

Effects of reserpine treatment on arrhythmogenesis during ischaemia and reperfusion in the isolated rat heart. Zhan CY, et al. **Clin Exp Pharmacol Physiol** 1989 Jul;16(7):591–6

The haemostatic balance in groups of thrombosis-prone patients. With particular reference to fibrinolysis in patients with myocardial infarction. Gram J. **Dan Med Bull** 1990 Jun;37(3):210–34 (402 ref.)

Different results in cardiopulmonary exercise tests after long-term treatment with felodipine and enalapril in patients with congestive heart failure due to ischaemic heart disease. Dunselman PH, et al. **Eur Heart J** 1990 Mar; 11(3):200–6

Simultaneous extensive extracranial and coronary revascularization. Long-term follow-up up to 13 years. Vermeulen FE, et al. **Eur J Cardiothorac Surg** 1988; 2(2):113–23

Silent myocardial ischemia: a special aspect of coronary artery disease. Lüderitz B. **Eur J Clin Pharmacol** 1990;38 Suppl 1:S69–71 (13 ref.)

A preliminary study of the dopamine DA1 agonist fenoldopam in the treatment of chronic left ventricular failure due to ischaemic heart disease. MacDonald TM, et al. **Eur J Clin Pharmacol** 1990;38(2):199–201

Coronary arterial occlusion and myocardial infarction in acute myocarditis. Morgan JM, et al. **Int J Cardiol** 1990 Feb;26(2):226–9

Coronary embolism causing myocardial infarction. Kraus PA, et al. **Intensive Care Med** 1990;16(3):215–6

Silent myocardial ischemia and ventricular arrhythmias. Bayés de Luna A, et al. **Isr J Med Sci** 1989 Sep;25(9):542–6 (41 ref.)

Vulnerability to ischemic ventricular arrhythmias in left ventricular hypertrophy [comment] Garan H. **J Am Coll Cardiol** 1989 Nov 1;14(5):1374–5 Comment on: J Am Coll Cardiol 1989 Nov 1;14(5):1365–73.

The role of silent ischemia, the arrhythmic substrate and the short-long sequence in the genesis of sudden cardiac death. Gomes JA, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1618–25

Incidence of ventricular arrhythmias during transient myocardial ischemia in patients with stable coronary artery disease [see comments] Hausmann D, et al. **J Am Coll Cardiol** 1990 Jul;16(1):49–54 Comment in: J Am Coll Cardiol 1990 Jul;16(1):55–6.

Silent ischemia, ventricular arrhythmia and sudden cardiac death [editorial; comment] Podrid PJ. **J Am Coll Cardiol** 1990 Jul;16(1):55–6 Comment on: J Am Coll Cardiol 1990 Jul;16(1):49–54.

Influence of coronary artery disease on morbidity and mortality after abdominal aortic aneurysmectomy: a population-based study, 1971–1987. Roger VL, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1245–52

Effect of coronary angioplasty on electrocardiographic changes in patients with unstable angina secondary to left anterior descending coronary artery disease. Shawl FA, et al. **J Am Coll Cardiol** 1990 Aug;16(2):325–31

Comparison of the natural history of new onset and exacerbated chronic ischemic heart disease. The Chest Pain Study Group [see comments] White LD, et al. **J Am Coll Cardiol** 1990 Aug;16(2):304–10 Comment in: J Am Coll Cardiol 1990 Aug;16(2):311–2.

Correlation of exercise induced hypotension and development of complications during treadmill stress test. Gupta R, et al. **J Assoc Physicians India** 1989 Aug;37(8):519

Calcific aortic stenosis with myocardial infarction secondary to coronary embolisation (role of echocardiography in diagnosis) [letter] Sharma S, et al. **J Assoc Physicians India** 1990 Jun;38(6):447–8

Failure of lidocaine to suppress lethal ischemic ventricular arrhythmias in a canine model of previous myocardial infarction. Lynch JJ Jr, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):41–9

Protection of the myocardium against postischemic reperfusion damage. van Gilst WH. **J Cardiovasc Pharmacol** 1989;14 Suppl 9:S49–54 (94 ref.)

The epidemiological relationship of hypercholesterolemia, hypertension, diabetes mellitus and obesity to coronary heart disease and atherogenesis. Stehbens WE. **J Clin Epidemiol** 1990;43(8):733–41 (88 ref.)

Sudden death due to fibromuscular dysplasia of the sinoatrial nodal artery. Nichols GR 2d, et al. **J Ky Med Assoc** 1989 Oct;87(10):504–5

Acute heart failure in an 8-year-old diabetic girl [clinical conference] Chiasson DA, et al. **J Pediatr** 1990 Mar; 116(3):472–7

Sudden death after spontaneous ventricular fibrillation: case reports. Bethell HJ. **J R Coll Gen Pract** 1989 Apr; 39(321):158–9

Abdominal aortic aneurysm and coronary artery disease: frequent companions, but an uneasy relationship. Freeman WK, et al. **J Vasc Surg** 1990 Jul;12(1):73–7 (35 ref.)

Effect of combined dopamine and bunazosin on the ischemic heart after occlusion of the coronary artery. Katoh T, et al. **Jpn J Surg** 1990 Jul;20(4):429–36

Aortic aneurysm in a 74-year-old man with coronary disease and obstructive lung disease: is double jeopardy enough? Hagen MD, et al. **Med Decis Making** 1989 Oct–Dec; 9(4):285–99

Correlation between preoperative ischemia and major cardiac events after peripheral vascular surgery [see comments] Raby KE, et al. **N Engl J Med** 1989 Nov 9; 321(19):1296–300 Comment in: N Engl J Med 1989 Nov 9;321(19):1330–2. Comment in: N Engl J Med 1990 Mar 29;322(13):931–2.

Simvastatin therapy for hypercholesterolaemia in patients with coronary heart disease [see comments] French JK, et al. **N Z Med J** 1990 Feb 14;103(883):41–3 Comment in: N Z Med J 1990 Apr 11;103(887):163.

Bile acid sequestrants and cholesterol [letter; comment] Schon P. **N Z Med J** 1990 Apr 11;103(887):163 Comment on: N Z Med J 1990 Feb 14;103(883):41–3.

Surgical treatment for mitral regurgitation due to coronary artery disease. Kay GL, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep;37 Suppl:96

Bronchodilators for patients with ischemic heart disease. How to avoid complications [published erratum appears in Postgrad Med 1990 Feb 1;87(2):30] Myers KE, et al. **Postgrad Med** 1989 Oct;86(5):324–6 (5 ref.)

Premature coronary artery disease and the Prader-Willi syndrome. Page SR, et al. **Postgrad Med J** 1990 Mar; 66(773):232–4

Ischemic myocardial cell necrosis: calcium overload or oxygen free-radicals? de Leiris J, et al. **Rev Port Cardiol** 1990 Feb;9(2):153–8 (22 ref.)

Risk factors for atherosclerosis—can they be used to identify the patient with multisystem atherosclerosis? Travers AM, et al. **S Afr Med J** 1990 Sep 1;78(5):237–41

Coexistent coronary artery disease and oesophageal spasm: the importance of establishing the source of chest pain. Hutchison SJ. **Scott Med J** 1990 Feb;35(1):23

Captopril (Tensiomin) in the treatment of chronic heart failure of ischaemic heart disease patients. Palócz E, et al. **Ther Hung** 1989;37(4):220–4

Coronary artery disease in a patient with a congenital pericardial defect. Amiri A, et al. **Thorac Cardiovasc Surg** 1989 Dec;37(6):379–81

[Matched investigation of risk factors in coronary heart patients with gallstones] Zhou X. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):5–8 (Eng. Abstr.) (Chi)

[Cyclic AMP levels in the plasma and ischemic myocardium and free fatty-acid levels in the serum following coronary artery ligation in dogs: relation to ventricular fibrillation] Huang DX, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Aug; 28(8):457–9, 507–8 (Eng. Abstr.) (Chi)

[Significance of left atrial thrombus in prediction of systemic arterial embolization in rheumatic mitral valve disease: a two-dimensional echocardiographic study] Lin JL, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Sep;88(9):955–60 (Chi)

[Prevention of tachycardia induced by a fentanyl–pancuronium combination in the coronary patient: propranolol or verapamil?] Magnin C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R131 (Fre)

[Esmolol attenuation of hemodynamic changes in resuscitation of hypertensive and coronary patients] Marty J, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R95 (Fre)

[Change in the regional systolic function of the left ventricle

in positive expiratory pressure (PEP) is not of ischemic origin and depends on a relaxation disorder] Pery N, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R258 (Fre)

[The syndrome of blood hypereosinophilia and multianeurysmal arterial disease (letter)] Sirieix ME, et al. **Ann Med Interne (Paris)** 1989;140(7):654–6 (Fre)

[von Willebrand's disease and coronary atherosclerosis. Apropos of 3 cases] Dulhoste MN, et al. **Arch Mal Coeur** 1989 Nov;82(11):1875–8 (Eng. Abstr.) (Fre)

[Arrhythmia associated with coronary disease: the most common and the most malignant (interview)] Gilbert MR. **Union Med Can** 1990 Mar–Apr;119(2):82–4 (Fre)

[Etiology of sudden death of cardiac origin] Puech P. **Union Med Can** 1990 Mar–Apr;119(2):81 (Fre)

[Carbon monoxide and coronary heart disease] Motz W, et al. **Dtsch Med Wochenschr** 1990 May 25;115(21):839 (Ger)

[What is the value of high resolution electrocardiography in the identification of patients at risk?] Hombach V, et al. **Herz** 1990 Feb;15(1):28–41 (Eng. Abstr.) (Ger)

[Maximal therapy of hypercholesterolemia in coronary heart disease] Thiery J, et al. **Ther Umsch** 1990 Jun;47(6):520–9 (Eng. Abstr.) (Ger)

[Acute cardiac death in chronic-ischemic heart disease (CIHD)] Breitfellner G. **Zentralbl Allg Pathol** 1989; 135(6):553–9 (39 ref.) (Eng. Abstr.) (Ger)

[Late post-infarction angina] Csapó K, et al. **Orv Hetil** 1989 Dec 24;130(52):2779–80, 2783–4 (39 ref.) (Eng. Abstr.) (Hun)

[Peripheral vascular disease of the legs associated with diseases of the coronary and carotid systems] Tóth K, et al. **Orv Hetil** 1990 Apr 14;131(15):783–6 (22 ref.) (Eng. Abstr.) (Hun)

[Transvenous bidirectional shock with a triple electrode system: a promising step in the electrical management of ventricular tachyarrhythmias] Vergara G, et al. **G Ital Cardiol** 1989 Jun;19(6):469–76 (Eng. Abstr.) (Ita)

[Dynamic left intraventricular obstruction in acute myocardial ischemia] Chesi G, et al. **Minerva Cardioangiol** 1989 Jul–Aug;37(7–8):351–3 (Eng. Abstr.) (Ita)

[Correlation of arteriosclerosis obliterans of the lower extremity with coronary artery disease] Hamai K, et al. **J Cardiol** 1989 Mar;19(1):103–12 (Eng. Abstr.) (Jpn)

[A case of acute myocardial infarction due to coronary embolism from left atrial thrombus with atrial fibrillation] Noto N, et al. **Kokyu To Junkan** 1990 May;38(5):483–7 (Eng. Abstr.) (Jpn)

[Coronary artery disease in patients with abdominal aortic aneurysm] Fukumura Y, et al. **Kyobu Geka** 1990 May; 43(5):364–7 (Eng. Abstr.) (Jpn)

[Aorto-coronary bypass grafting in a patient with neutrocytopenia] Yamada T, et al. **Kyobu Geka** 1989 Jul; 42(7):583–6 (Eng. Abstr.) (Jpn)

[Implications of preoperative angiography and coronary artery bypass grafting for patients with combined coronary artery and great vessels diseases] Kazui T, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1463–6 (Eng. Abstr.) (Jpn)

[Influence of ischemic heart disease on early and late mortality after aortic reconstruction for abdominal aortic aneurysm and aortoiliac occlusive disease] Maeda S, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1471–4 (Eng. Abstr.) (Jpn)

[Treatment of hypertension complicated by coronary diseases and post-infarction hypertension] Kuramochi M. **Nippon Naika Gakkai Zasshi** 1990 Jan 10;79(1):60–4 (Jpn)

[Antiphospholipid syndrome with massive right atrial thrombus. Differential diagnosis of myxoma] Kjernsmo A. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):837–9 (Eng. Abstr.) (Nor)

[Prognostic importance of various parameters in patients after ventricular fibrillation and with ventricular tachycardia during coronary disease] Luczak D, et al. **Wiad Lek** 1990 Jan 1–15;43(1–2):10–5 (Pol)

[Ventricular arrhythmia in chronic coronary disease: prognostic significance and anatomo-functional correlations] Adragão P, et al. **Rev Port Cardiol** 1988 Mar–Apr;7(2):162–7 (16 ref.) (Eng. Abstr.) (Por)

[Comparison of Holter electrocardiography and the exercise test] Soares R, et al. **Rev Port Cardiol** 1988 Mar–Apr; 7(2):167–71 (Eng. Abstr.) (Por)

[The morphogenesis of chronic failure of the lymph outflow from the heart in dyslipoproteinemia and recurrent myocardial ischemia] Gavrish AS. **Arkh Patol** 1990; 52(5):11–6 (Eng. Abstr.) (Rus)

[Coronaro-cardiac fistula associated with tetralogy of Fallot] Dzhoshibaev SD, et al. **Grud Serdechnososudistaia Khir** 1990;(4):65–7 (Rus)

[Subendocardial resection in the surgical treatment of ventricular arrhythmia in patients with ischemic heart disease] Dzhozefson M, et al. **Grud Serdechnososudistaia Khir** 1990;(4):24–35 (Eng. Abstr.) (Rus)

[Arrhythmia in patients with ischemic heart disease and indications for surgical treatment] Bokeriia LA, et al. **Grudn Khir** 1989 Jul–Aug;(4):28–32 (Eng. Abstr.) (Rus)

[Use of prazosin and capoten in the treatment of heart failure in patients with ischemic heart disease] Burduli FU, et al. **Kardiologiia** 1989 Sep;29(9):49–52 (Eng. Abstr.) (Rus)

[Unstable stenocardia: various problems of pathogenesis and treatment] Gratsianskiĭ NA. **Kardiologiia** 1989 Oct; 29(10):26–31 (Rus)

[Significance of circulatory changes, left-ventricular form and calcium metabolism in ventricular hypertrophy in patients with ischemic heart disease] Ianovskiĭ GV, et al. **Kardiologiia** 1989 Aug;29(8):95–7 (Rus)

[Effect of working conditions in deep coal mines of the Donetsk region on the course of ischemic heart disease in miners] Malaia LT, et al. **Kardiologiia** 1989 Aug; 29(8):25–8 (Eng. Abstr.) (Rus)

[Evaluation of risk factors in surgery of aneurysm of the abdominal aorta] Martynov AA, et al. **Kardiologiia** 1989 Aug;29(8):91–3 (Rus)

[Changes in antioxidative enzyme activity in patients with chronic heart failure] Saifutdinov RI, et al. **Kardiologiia** 1990 Mar;30(3):65–8 (Eng. Abstr.) (Rus)

[Surgical treatment of high occlusion of the abdominal aorta associated with lesions of coronary, renal and visceral arteries] Spiridonov AA, et al. **Klin Khir** 1989;(7):39–43 (Eng. Abstr.) (Rus)

[Use of mindronate in cardiac insufficiency in patients with ischemic heart disease] Ol'binskaia LI, et al. **Klin Med (Mosk)** 1990 Jan;68(1):39–42 (Eng. Abstr.) (Rus)

[Thrombosis and spasm—interconnected reasons for acute coronary obstruction] Roĭtberg GE, et al. **Klin Med (Mosk)** 1989 Jul;67(7):135–7 (Rus)

[Clinical course of ischemic heart disease in concomitant bronchial asthma] Sinopa'nikov AI, et al. **Klin Med (Mosk)** 1989 Oct;67(10):44–8 (Eng. Abstr.) (Rus)

[Effect of adaptation to continuous and intermittent hypoxia on heart resistance to ischemic and reperfusion arrhythmias] Meerson FZ, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):48–50 (Eng. Abstr.) (Rus)

[Treatment of arrhythmia in patients with chronic ischemic heart disease using kinilentin combined with an inhibitor or inductor of microsomal oxidation] Kharlamova IV, et al. **Sov Med** 1989;(12):41–4 (Rus)

[Use of visken in hypertension associated with ischemic heart disease and nutritional obesity] Khomenko VL, et al. **Sov Med** 1990;(3):64–7 (Rus)

[The role of an endogenous digoxin-like factor in regulating blood circulation and in the origin of arrhythmia in myocardial ischemia] Bagrov AIa, et al. **Ter Arkh** 1989; 61(7):84–9 (52 ref.) (Eng. Abstr.) (Rus)

[Myocardial infarct in a patient with a coronary artery thrombosis at the site of the myocardial bridge in unaffected heart vessels] Staroverov II, et al. **Ter Arkh** 1989; 61(12):41–3 (Rus)

[The clinical characteristics of sexual functional disorders in patients with ischemic heart disease] Volodin VS, et al. **Ter Arkh** 1989;61(10):57–9 (Rus)

[Morphogenetic characteristics of pneumonia in ischemic heart disease] Gichka SG, et al. **Vrach Delo** 1989 Dec; (12):36–7 (Eng. Abstr.) (Rus)

[Nicotinic acid in the treatment of chronic circulatory failure in patients with ischemic heart disease] Kats GL, et al. **Vrach Delo** 1989 Sep;(9):16–9 (Eng. Abstr.) (Rus)

[The use of mildronat in heart failure in patients with chronic ischemic heart disease] Sakharchuk II, et al. **Vrach Delo** 1989 Sep;(9):21–3 (Eng. Abstr.) (Rus)

[Transient ischemic attacks and coronary disease] Jovičić A, et al. **Vojnosanit Pregl** 1989 Sep–Oct;46(5):323–5 (Eng. Abstr.) (Scr)

[Thoracic pain of esophageal origin] Trujillo L, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):249–52 (Eng. Abstr.) (Spa)

CONGENITAL

Coronary artery fistula as source of pulmonary circulation in pulmonary atresia with ventricular septal defect. Bogers AJ, et al. **Thorac Cardiovasc Surg** 1990 Feb;38(1):30–2

DIAGNOSIS

Prediction and early diaguosis of acute myocardial ischemia during anesthesia: a critical review. De Hert SG, et al. **Acta Anaesthesiol Belg** 1989;40(2):139–50 (61 ref.)

Computerised evaluation of the electrocardiogram during and for a short period after gall bladder surgery. Jakobsson J, et al. **Acta Anaesthesiol Scand** 1989 Aug;33(6):474–7

Indirect estimation of myocardial stiffness by a noninvasive method. Baracca E, et al. **Acta Cardiol** 1990;45(3):195–8

Noninvasive approach to evaluate coronary reserve. Ferro G, et al. **Acta Cardiol** 1990;45(3):211–6

Coronary angiography and thallium-201 single photon emission computed tomography in single vessel coronary artery disease. Svane B, et al. **Acta Radiol** 1990 May; 31(3):237–44

Echocardiographic visualization of a large mobile right atrial thrombus with sudden embolization during real-time scanning. Adamick R, et al. **Am Heart J** 1990 Sep; 120(3):699–701

Cardiopulmonary exercise testing before and after conditioning in older coronary patients. Ades PA, et al. **Am Heart J** 1990 Sep;120(3):585–9

ST deviation in right chest leads V3R to V7R during percutaneous transluminal coronary angioplasty. Andersen HR, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):490–3

Use of oral dipyridamole SPECT thallium-201 imaging in detection of coronary artery disease. Beer SG, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1022–7

The value of exercise testing in patients with coronary artery spasm. Castello R, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):259–63

Exercise-induced T wave normalization is not specific for myocardial ischemia detected by perfusion scintigraphy. Frais MA, et al. **Am Heart J** 1990 May;119(5):1225–9

Delayed recovery of revascularized myocardium after referral for cardiac transplantation. Luu M, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):668–70

The effect of baseline electrocardiographic abnormalities on the diagnostic accuracy of exercise-induced ST segment changes. Meyers DG, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):272–6

Mechanism of abnormal postexercise systolic blood pressure response and its diagnostic value in patients with coronary artery disease. Miyahara T, et al. **Am Heart J** 1990 Jul; 120(1):40–9

Multiple coronary LV fistulas: demonstration of coronary steal phenomenon by stress thallium scintigraphy and exercise hemodynamics. Oshiro K, et al. **Am Heart J** 1990 Jul;120(1):217–9

Prognostic value of a normal exercise echocardiogram. Sawada SG, et al. **Am Heart J** 1990 Jul;120(1):49–55

Current technology in assessing painless and painful ischemia. Selwyn AP. **Am Heart J** 1990 Sep;120(3):722–5

Usefulness of the dipyridamole-Doppler test for diagnosis of coronary artery disease. Agati L, et al. **Am J Cardiol** 1990 Apr 1;65(13):829–34

Usefulness of echocardiographic left ventricular ejection fraction and silent myocardial ischemia in predicting new coronary events in elderly patients with coronary artery disease or systemic hypertension. Aronow WS, et al. **Am J Cardiol** 1990 Mar 15;65(11):811–2

Usefulness of silent ischemia, ventricular tachycardia, and complex ventricular arrhythmias in predicting new coronary events in elderly patients with coronary artery disease or systemic hypertension. Aronow WS, et al. **Am J Cardiol** 1990 Feb 15;65(7):511–2

Detection of restenosis after elective percutaneous transluminal coronary angioplasty using the exercise treadmill test. Bengtson JR, et al. **Am J Cardiol** 1990 Jan 1;65(1):28–34

Attenuation of exercise-induced ST depression during combined isometric and dynamic exercise in coronary artery disease. Bertagnoli K, et al. **Am J Cardiol** 1990 Feb 1;65(5):314–7

ST-segment changes during transmural myocardial ischemia in chronic left bundle branch block. Cannon A, et al. **Am J Cardiol** 1989 Nov 15;64(18):1216–7

Utility of lead V4R in exercise testing for detection of coronary artery disease. Chouhan L, et al. **Am J Cardiol** 1989 Oct 15;64(14):938–9

Value of right-sided cardiac catheterization in patients undergoing left-sided cardiac catheterization for evaluation of coronary artery disease. Hill JA, et al. **Am J Cardiol** 1990 Mar 1;65(9):590–3

Diagnostic value of ambulatory Holter monitoring for the detection of coronary artery disease in patients with variable threshold angina pectoris. Hoberg E, et al. **Am J Cardiol** 1990 May 1;65(16):1078–83

Relation of silent myocardial ischemia after coronary artery bypass grafting to angiographic completeness of revascularization and long-term prognosis. Kennedy HL, et al. **Am J Cardiol** 1990 Jan 1;65(1):14–22

Usefulness of esophageal pill electrode atrial pacing with quantitative two-dimensional echocardiography for diagnosing coronary artery disease. Matthews RV, et al. **Am J Cardiol** 1989 Oct 1;64(12):730–5

Clinical and pathophysiologic correlates of ST-T-wave abnormalities in coronary artery disease. Mirvis DM, et al. **Am J Cardiol** 1990 Sep 15;66(7):699–704

ST monitoring for myocardial ischemia during and after coronary angioplasty. Mizutani M, et al. **Am J Cardiol** 1990 Aug 15;66(4):389–93

Diagnostic features of body surface potential maps in patients with myocardial ischemia and normal resting 12-lead electrocardiograms. Musso E, et al. **Am J Cardiol** 1990 Apr 15;65(15):973–9

Frequency and importance of silent myocardial ischemia identified with ambulatory electrocardiographic monitoring in the early in-hospital period after acute myocardial infarction. Ouyang P, et al. **Am J Cardiol** 1990 Feb 1;65(5):267–70

Right ventricular ischemia diagnosed by ST-segment elevation in precordial leads [letter; comment] Ovsyshycher IA, et al. **Am J Cardiol** 1990 Apr 15;65(15):1050 Comment on: Am J Cardiol 1989 Jan 1;63(1):107–9.

Usefulness of jogging in place as an exercise test of enhanced diagnostic efficacy. Papazoglou NM, et al. **Am J Cardiol** 1990 Jan 15;65(3):242–3

Usefulness of two-dimensional echocardiography for immediate detection of myocardial ischemia in the emergency room. Peels CH, et al. **Am J Cardiol** 1990 Mar 15;65(11):687–91

Exercise testing for right ventricular ischemia [letter] Rubler S, et al. **Am J Cardiol** 1990 Aug 15;66(4):528

Transient myocardial ischemia in hypertensive heart disease. Scheler S, et al. **Am J Cardiol** 1990 Apr 3;65(14):51G–55G

Coronary sinus lysophosphatidylcholine accumulation during rapid atrial pacing. Sedis SP, et al. **Am J Cardiol** 1990 Sep

15;66(7):695–8
Accuracy of digital Holter monitoring of extent and duration of ischemic episodes compared to analog recording. Silber S, et al. **Am J Cardiol** 1990 Feb 1;65(5):383–8
Lack of correlation between transient myocardial ischemia and late potentials on the signal-averaged electrocardiogram. Turitto G, et al. **Am J Cardiol** 1990 Feb 1;65(5):290–6
Quantitative comparison of thallium-201 scintigraphy after exercise and dipyridamole in coronary artery disease. Varma SK, et al. **Am J Cardiol** 1989 Oct 15;64(14):871–7
Clinical significance of silent ischemia in unstable angina pectoris. Wilcox I, et al. **Am J Cardiol** 1990 Jun 1; 65(20):1313–6
Weight carrying versus handgrip exercise testing in men with coronary artery disease. Wilke NA, et al. **Am J Cardiol** 1989 Oct 1;64(12):736–40
Using the patient's history to estimate the probability of coronary artery disease: a comparison of primary care and referral practices. Sox HC Jr, et al. **Am J Med** 1990 Jul; 89(1):7–14
Intraoperative ST-segment changes consistent with myocardial ischemia in the neonate: a report of three cases. Bell C, et al. **Anesthesiology** 1989 Oct;71(4):601–4
Usefulness of echocardiographic left ventricular hypertrophy and silent ischemia in predicting new cardiac events in elderly patients with systemic hypertension or coronary artery disease. Aronow WS, et al. **Angiology** 1990 Mar; 41(3):189–93
Early detection of silent ischemia after bypass grafting. Exadactylos N, et al. **Angiology** 1989 Dec;40(12):1048–51
Supine exercise electrocardiography compared with exercise radionuclide angiography in noninvasive identification of severe coronary artery disease. Gibbons RJ, et al. **Ann Intern Med** 1990 May 15;112(10):743–9
"Recovery only" ST-segment depression and the predictive accuracy of the exercise test [published erratum appears in Ann Intern Med 1990 Aug 15;113(4):333–4] Lachterman B, et al. **Ann Intern Med** 1990 Jan 1;112(1):11–6
Basic data related to cardiac testing and cardiac risk associated with vascular surgery. Yeager RA. **Ann Vasc Surg** 1990 Mar;4(2):193–7
A comparison of methods of analysing exercise tests for diagnosis of coronary artery disease. Deckers JW, et al. **Br Heart J** 1989 Dec;62(6):438–44
Evaluation of exercise electrocardiography and thallium tomographic imaging in detecting asymptomatic coronary artery disease in diabetic patients. Koistinen MJ, et al. **Br Heart J** 1990 Jan;63(1):7–11
Catheters or isotopes in the district general hospital? [letter] Underwood R. **Br Heart J** 1990 Jul;64(1):105–6
Silent myocardial ischaemia in a patient with anaemia before operation. Parsloe MR, et al. **Br J Anaesth** 1990 May; 64(5):634–7
Angina-like chest pain: head, heart or oesophagus? Schofield PM, et al. **Br J Hosp Med** 1990 Jun;43(6):443–7 (32 ref.)
Non-invasive cardiac imaging. **Br Med Bull** 1989 Oct; 45(4):829–1109
Perfusion imaging. Tweddel AC, et al. **Br Med Bull** 1989 Oct;45(4):896–921 (125 ref.)
Echocardiography in the detection and evaluation of coronary artery disease. Iliceto S, et al. **Cardiologia** 1989 Aug;34(8):665–70 (28 ref.)
Ear lobe crease and coronary artery disease in patients undergoing coronary arteriography. Kenny DJ, et al. **Cardiology** 1989;76(4):293–8
Noninvasive diagnosis of coronary heart disease in women. Taylor P, et al. **Cardiology** 1990;77 Suppl 2:91–8 (19 ref.)
Prevention of sudden cardiac death. Dunn FG. **Cardiovasc Clin** 1990;20(3):95–109 (62 ref.)
Detecting and assessing severity of coronary artery disease in humans. Gould KL. **Cardiovasc Intervent Radiol** 1990 Feb–Mar;13(1):5–13 (34 ref.)
Myocardial ischemia during pharmacologic coronary vasodilatation: a concept in search of definition [editorial] Iskandrian AS, et al. **Cathet Cardiovasc Diagn** 1989 Oct; 18(2):65–6 (12 ref.)
Exercise body surface potential mapping in single and multiple coronary artery disease. Montague TJ, et al. **Chest** 1990 Jun;97(6):1333–42
Jogging in place. Evaluation of a simplified exercise test. Papazoglou N, et al. **Chest** 1989 Oct;96(4):840–2
Silent ischemia: a clinical update. Valle GA, et al. **Chest** 1990 Jan;97(1):186–91
Visualization of coronary blood flow by color Doppler imaging with a transesophageal approach. Yamagishi M, et al. **Chest** 1989 Nov;96(5):972–5
Patterns of body surface potential and ventriculograms specific to occlusion of subdivisions of the coronary arteries. Horan LG, et al. **Circ Res** 1990 Sep;67(3):683–93
Dipyridamole thallium 201 imaging. How safe is it? [comment] Beller GA. **Circulation** 1990 Apr;81(4):1425–7 Comment on: Circulation 1990 Apr;81(4):1205–9.
Comparison of the double two-step test and the maximal exercise treadmill test. Studies in coronary-prone subjects. Bellet S, et al. **Circulation** 1967 Aug;36(2):238–44
Clinical importance of silent myocardial ischemia in asymptomatic subjects [comment] Cohn PF. **Circulation** 1990 Feb;81(2):691–3 Comment on: Circulation 1990 Feb;81(2):428–36.
Prevalence and prognostic significance of exercise-induced silent myocardial ischemia detected by thallium scintigraphy and electrocardiography in asymptomatic volunteers [see comments] Fleg JL, et al. **Circulation** 1990 Feb;81(2):428–36 Comment in: Circulation 1990 Feb;81(2):691–3.
Are there markers of the blood-vessel wall interaction and of thrombus formation that can be used clinically? Gershlick AH. **Circulation** 1990 Jan;81(1 Suppl):I28–34; discussion I40–1 (43 ref.)
Prognostic importance of dipyridamole-echocardiography test [letter; comment] Gerson MC. **Circulation** 1990 Mar; 81(3):1157–8 Comment on: Circulation 1989 Sep;80(3):450–7.
Top-resolution frequency analysis of electrocardiogram with adaptive frequency determination. Identification of late potentials in patients with coronary artery disease. Haberl R, et al. **Circulation** 1990 Oct;82(4):1183–92
Complete recovery in plasma of enzymes lost from the heart after permanent coronary artery occlusion in the dog [see comments] Hermens WT, et al. **Circulation** 1990 Feb; 81(2):649–59 Comment in: Circulation 1990 Feb;81(2):707–10.
Relation between localization of coronary artery disease and local abnormalities in ventricular activation during exercise tests. Igarashi H, et al. **Circulation** 1990 Feb;81(2):461–9
Electrocardiographic changes suggestive of myocardial ischemia elicited by dipyridamole infusion in acute rejection early after heart transplantation. Picano E, et al. **Circulation** 1990 Jan;81(1):72–7
Vasodilator myocardial imaging [editorial; comment] Pitt B. **Circulation** 1990 Jul;82(1):308–9 Comment on: Circulation 1990 Jul;82(1):80–7.
Do changes in pulmonary capillary wedge pressure adequately reflect myocardial ischemia during anesthesia? A correlative preoperative hemodynamic, electrocardiographic, and transesophageal echocardiographic study. van Daele ME, et al. **Circulation** 1990 Mar;81(3):865–71
Coronary vasomotor response to acetylcholine relates to risk factors for coronary artery disease [see comments] Vita JA, et al. **Circulation** 1990 Feb;81(2):491–7 Comment in: Circulation 1990 Feb;81(2):697–9.
Electrophysiological testing and nonsustained ventricular tachycardia. Use and limitations in patients with coronary artery disease and impaired ventricular function [see comments] Wilber DJ, et al. **Circulation** 1990 Aug; 82(2):350–8 Comment in: Circulation 1990 Aug;82(2):633–5.
Assessment of myocardial salvage after ischemia and reperfusion using magnetic resonance imaging and spectroscopy. Wolfe CL, et al. **Circulation** 1989 Oct; 80(4):969–82
Detection of left main coronary artery stenosis by transesophageal color Doppler and two-dimensional echocardiography. Yoshida K, et al. **Circulation** 1990 Apr; 81(4):1271–6
Silent myocardial ischemia [editorial] Conti CR. **Clin Cardiol** 1990 Jul;13(7):451
Value of notching and slurring of the resting QRS complex in the detection of ischemic heart disease. France RJ, et al. **Clin Cardiol** 1990 Mar;13(3):190–6
Definition of patients at high risk of sudden arrhythmic cardiac death. Greene HL. **Clin Cardiol** 1988 Mar;11(3 Suppl 2):II5–16
Noninvasive assessment and management of the patient at high risk of sudden cardiac death. McKenna WJ. **Clin Cardiol** 1988 Mar;11(3 Suppl 2):II22–5
Some aspects of the wideband recording of the electrocardiogram. Mor-Avi V, et al. **Clin Cardiol** 1990 Feb;13(2):120–6 (45 ref.)
Accuracy of the ambulatory ECG monitoring system Cardio-Data Mk4 in detecting exercise-induced myocardial ischaemia [published erratum appears in Clin Phys Physiol Meas 1989 Nov;10(4):372] Brüggemann T, et al. **Clin Phys Physiol Meas** 1989 Aug;10(3):253–8
Diagnostic and prognostic value of exercise electrocardiography for coronary artery disease. Aronow WS. **Compr Ther** 1989 Nov;15(11):20–6 (22 ref.)
A medical reasoning program that improves with experience. Koton P. **Comput Methods Programs Biomed** 1989 Oct-Nov;30(2–3):177–84
Transoesophageal atrial pacing in the diagnosis of myocardial ischaemia assessed with the 12-lead electrocardiogram and precordial ST segment mapping. Janota M, et al. **Cor Vasa** 1990;32(2):89–98
Diagnosis of ischaemic heart disease based on data of precordial mapping. Riabykina GV, et al. **Cor Vasa** 1989; 31(6):444–50
Indications for coronary angiography: diagnosis and interventional procedures. Lackner K. **Curr Opin Radiol** 1989 Aug;1(2):153–8 (20 ref.)
Echocardiography in coronary artery disease. Kaul S. **Curr Probl Cardiol** 1990 May;15(5):233–98 (201 ref.)
A comparison of systolic time intervals measured by impedance cardiography and carotid pulse tracing. Mehlsen J, et al. **Dan Med Bull** 1990 Feb;37(1):93–5
Sensitivity and specificity of dobutamine--electrocardiography test to detect multivessel disease after acute myocardial infarction. Coma-Canella I. **Eur Heart J** 1990 Mar;11(3):249–57
Thallium-201 scintigraphy after dipyridamole infusion with low-level exercise. III. Clinical significance and additional diagnostic value of ST segment depression and angina pectoris during the test. Laarman GJ, et al. **Eur Heart J** 1990 Aug;11(8):705–11
Detection of perioperative myocardial ischaemia. The Study of Perioperative Ischemia (SPI) Research Group. Mangano DT. **Eur Heart J** 1989 Dec;10 Suppl H:2–9
Transient myocardial ischaemia: a multivariate analysis on clinical, angiographic and ergometric variables. Pandullo C, et al. **Eur Heart J** 1990 Feb;11(2):156–61
Prognostic significance and therapeutic implications of silent myocardial ischaemia. Tzivoni D, et al. **Eur Heart J** 1990 Apr;11(4):288–93
Detection of perioperative myocardial ischaemia, with special emphasis on transoesophageal echocardiography. van Wezel HB, et al. **Eur Heart J** 1989 Dec;10 Suppl H:33–7
Assessment of cardiac risk before vascular surgery by dipyridamole thallium testing. Laarman GJ, et al. **Eur J Vasc Surg** 1990 Aug;4(4):335–40 (65 ref.)
Treadmill exercise electrocardiography in the elderly with physical impairments. Thompson RF, et al. **Gerontology** 1990;36(2):112–8
Public health service. Reassessment of cardiokymography, 1988. Handelsman H. **Health Technol Assess Rep** 1988; (1):1–3 (23 ref.)
Early recognition of critical stenosis high in the left anterior descending coronary artery. Paul SC, et al. **Heart Lung** 1990 Jan;19(1):27–30
Silent ischemia. Khandheria BK. **Hosp Pract [Off]** 1990 Aug 15;25(8):37, 40, 43 passim
Detection of coronary occlusions using autoregressive modeling of diastolic heart sounds. Akay M, et al. **IEEE Trans Biomed Eng** 1990 Apr;37(4):366–73
Totally occluded coronary arteries with normal LV function: clinical and angiographic profile. Jolly N, et al. **Indian Heart J** 1990 Jan–Feb;42(1):30–4
Detection, frequency and clinical significance of silent myocardial ischaemia in patients with chronic stable angina. Kaul UA, et al. **Indian Heart J** 1989 Jul–Aug;41(4):229–32
Improved subtraction technique in intravenous digital left ventriculography: comparison with radionuclide studies. Brunotte F, et al. **Int J Cardiol** 1990 Aug;28(2):237–43
Additional prognostic value of exercise testing and thallium-201 scintigraphy in catheterized patients without previous myocardial infarction. Melin JA, et al. **Int J Cardiol** 1990 May;27(2):235–43
Early detection of myocardial ischemia in hypertensive patients using exercise esophageal electrocardiography. Mittal SR, et al. **Int J Cardiol** 1990 Feb;26(2):236–7
Silent myocardial ischaemia: characteristics and management. Northcote RJ, et al. **Int J Cardiol** 1990 Jan;26(1):5–13 (74 ref.)
Doppler echocardiographic findings in coronary-pulmonary fistula. Said S. **Int J Cardiol** 1989 Dec;25(3):343–6
Endomyocardial biopsy diagnosis of small vessel disease: a clinicopathologic study. van Hoeven KH, et al. **Int J Cardiol** 1990 Jan;26(1):103–10
Silent versus symptomatic myocardial ischemia during exercise testing: a comparison with coronary angiographic findings. Visser FC, et al. **Int J Cardiol** 1990 Apr;27(1):71–8
Silent myocardial ischemia during daily activities: relationship to results of exercise testing and coronary angiography. Hinderliter AL, et al. **Isr J Med Sci** 1989 Sep;25(9):520–4 (22 ref.)
Advanced methods for assessing symptomatic or silent myocardial ischemia. Hombach V, et al. **Isr J Med Sci** 1989 Sep;25(9):527–32 (33 ref.)
Evaluation of symptomatic vs. silent myocardial ischemia using the ambulatory left ventricular function monitor (VEST). Ishibashi M, et al. **Isr J Med Sci** 1989 Sep; 25(9):532–8 (29 ref.)
Variations and value of exercise electrocardiography [comment] Bruce RA. **J Am Coll Cardiol** 1989 Nov 15; 14(6):1509–10 Comment on: J Am Coll Cardiol 1989 Nov 15;14(6):1501–8.
Prognosis in exercise-induced silent ischemia: is there a consensus? [editorial] Cohn PF. **J Am Coll Cardiol** 1989 Oct;14(4):893–4
Exercise-induced ST segment depression in the diagnosis of multivessel coronary disease: a meta analysis [see comments] Detrano R, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1501–8 Comment in: J Am Coll Cardiol 1989 Nov 15;14(6):1509–10.
Exercise testing in women [comment] Heinsimer JA, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1448–9 Comment on: J Am Coll Cardiol 1989 Nov 15;14(6):1440–7.
Relative insensitivity of densitometric stenosis measurement to lumen edge determination. Herrold EM, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1570–7
Lack of specificity of new negative U waves for anterior myocardial ischemia as evidenced by intracoronary electrogram during balloon angioplasty. Jain A, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1007–11
Assessment of "silent" restenosis and long-term follow-up after successful angioplasty in single vessel coronary artery disease: the value of quantitative exercise electrocardiography and quantitative coronary angiography. Laarman G, et al. **J Am Coll Cardiol** 1990 Sep;16(3):578–85
Painless exercise ST deviation on the treadmill: long-term prognosis. Mark DB, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):885–92
Reproducibility of two-dimensional exercise echocardiography. Oberman A, et al.

J Am Coll Cardiol 1989 Oct;14(4):923–8

Exercise echocardiographic detection of coronary artery disease in women [see comments] Sawada SG, et al. J Am Coll Cardiol 1989 Nov 15;14(6):1440–7 Comment in: J Am Coll Cardiol 1989 Nov 15;14(6):1448–9.

Relation of quantitative coronary lesion measurements to the development of exercise-induced ischemia assessed by exercise echocardiography [see comments] Sheikh KH, et al. J Am Coll Cardiol 1990 Apr;15(5):1043–51 Comment in: J Am Coll Cardiol 1990 Apr;15(5):1052–4.

Exercise echocardiography and quantitative angiography: improved identification of physiologically significant coronary artery stenoses [comment] Vandenberg BF, et al. J Am Coll Cardiol 1990 Apr;15(5):1052–4 Comment on: J Am Coll Cardiol 1990 Apr;15(5):1043–51.

Echocardiographic analysis of regional left ventricular wall motion in children after the arterial switch operation for complete transposition of the great arteries. Vogel M, et al. J Am Coll Cardiol 1990 May;15(6):1417–23

Dipyridamole echocardiography in the detection of vulnerable myocardium in the early postinfarction period. Josephson RA, et al. J Am Soc Echocardiogr 1989 Sep–Oct; 2(5):324–30

Anatomy, histology, and pathology of the major epicardial coronary arteries relevant to echocardiographic imaging techniques. Waller BF. J Am Soc Echocardiogr 1989 Jul–Aug;2(4):232–52 (71 ref.)

Preoperative ECG—a must [letter] Chaturvedi A, et al. J Assoc Physicians India 1989 Sep;37(9):613

More about U wave [letter; comment] Turakhia DP. J Assoc Physicians India 1989 Sep;37(9):616–7 Comment on: J Assoc Physicians India 1988 Oct;36(10):616.

Electroconvulsive therapy—induced hemodynamic changes unmask unsuspected coronary artery disease. Knos GB, et al. J Clin Anesth 1990 Jan–Feb;2(1):37–41

Optimal use of literature knowledge to improve the Bayesian diagnosis of coronary artery disease. Detrano R. J Clin Epidemiol 1989;42(11):1041–7

Detection of coronary artery disease using MR imaging with dipyridamole infusion. Pennell DJ, et al. J Comput Assist Tomogr 1990 Mar–Apr;14(2):167–70

A basis for determining body surface potential patterns attributable to single-site coronary arterial occlusion. Horan LG, et al. J Electrocardiol 1989;22 Suppl:99–106

A system for simultaneous esophageal atrial pacing and ventricular recording in computer analysis of posterior ischemia. Jadvar H, et al. J Electrocardiol 1989;22 Suppl:248–52

Twelve-lead electrocardiogram recording during percutaneous transluminal coronary angioplasty. Analysis of reciprocal changes. Kracoff OH, et al. J Electrocardiol 1990 Jul;23(3):191–8

Electrocardiographic monitoring and coronary occlusion. Fingerprint pattern analysis in dimensions of space, time, and mind. Krucoff MW. J Electrocardiol 1989;22 Suppl:232–7

Use of body surface maps to identify vessel site of coronary occlusion. Sridharan MR, et al. J Electrocardiol 1989;22 Suppl:72–81

The value of body surface potential maps in detecting abnormal ventricular wall motion. Tseng YZ, et al. J Electrocardiol 1990 Apr;23(2):127–36

Electrocardiographic methods for quantifying the sizes of healed infarction and acutely ischemic myocardium [comment] Wagner GS, et al. J Electrocardiol 1990 Jan; 23(1):9–12 Comment on: J Electrocardiol 1990 Jan;23(1):1–7.

Detecting acute cardiac ischemia in the emergency department: a review of the literature. McCarthy BD, et al. J Gen Intern Med 1990 Jul–Aug;5(4):365–73 (79 ref.)

Determination of light-chain myosin in pregnancy and under tocolysis. Lechner W, et al. J Perinat Med 1989;17(6):461–4

The value of silent myocardial ischemia monitoring in the prediction of perioperative myocardial infarction in patients undergoing peripheral vascular surgery. Pasternack PF, et al. J Vasc Surg 1989 Dec;10(6):617–25

Preoperative evaluation of cardiac risk by means of atrial pacing and thallium 201 scintigraphy. Stratmann HG, et al. J Vasc Surg 1989 Oct;10(4):385–91

From the Agency for Health Care Policy and Research. Clinton JJ. JAMA 1990 Mar 23–30;263(12):1612

Quantitative two-dimensional echocardiographic assessment of left ventricular shape in ischemic heart disease. D'Cruz IA, et al. JCU 1989 Oct;17(8):569–72

Spatial distribution of exercise-induced ST-segment depression and U-wave inversion in identifying the ischemic site in patients with coronary artery disease. Ikeda K, et al. Jpn Circ J 1989 Jul;53(7):695–706

Silent myocardial ischemia during Holter monitoring in ischemic heart disease. Kohya T, et al. Jpn Circ J 1989 Nov;53(11):1399–406

Clinical significance of Aqrs, At and ventricular gradient in single vessel coronary artery diseases. Motomura M, et al. Jpn Circ J 1989 Dec;53(12):1491–6

New trend of cardiac imaging—intravenous coronary arteriography by synchrotron radiation. Sugishita Y, et al. Jpn Circ J 1990 Mar;54(3):339–42

Assessment of silent and symptomatic ischemia in daily activity by an ambulatory ventricular function monitor. Tamaki N, et al. Jpn Circ J 1989 Nov;53(11):1458–65

Silent myocardial ischemia is not a benign sign. Tamura K. Jpn Circ J 1989 Nov;53(11):1419–26 (24 ref.)

Clinical application of echocardiographic imaging to diagnosis of coronary artery disease. Uchiyama T, et al. Jpn Circ J 1990 Mar;54(3):309–15

Value of transesophageal color Doppler echocardiography in the evaluation of coronary artery anatomy and blood flow. Yoshida K, et al. Jpn Circ J 1990 Mar;54(3):298–303

Noninvasive assessment of left ventricular diastolic filling in coronary artery disease by Doppler dipyridamole-stress testing. Tomimoto S, et al. Jpn Heart J 1989 Nov; 30(6):765–78

Anticardiolipin antibodies are no marker for survived myocardial infarction. Eber B, et al. Klin Wochenschr 1990 Jun 19;68(12):594–6

Effect of repetitive brief episodes of cardiac ischemia on 31P magnetic resonance spectroscopy in the cat. Holt WW, et al. Magn Reson Med 1990 Jul;15(1):70–80

Silent myocardial ischemia. Velican C, et al. Med Interne 1989 Apr–Jun;27(2):79–91 (14 ref.)

Predictive value of preoperative electrocardiographic monitoring [letter; comment] N Engl J Med 1990 Mar 29; 322(13):931–2 Comment on: N Engl J Med 1989 Nov 9;321(19):1296–300.

Negligence of a non-HMO consulting physician. George JE, et al. N J Med 1990 Mar;87(3):173–4

Silent myocardial ischemia [letter; comment] Cheng TO. Postgrad Med 1990 Mar;87(4):33 Comment on: Postgrad Med 1989 Nov 15;86(7):99–105, 108–10.

Is silent myocardial ischemia clinically important? Does it have prognostic significance? [see comments] Deedwania PC, et al. Postgrad Med 1989 Nov 15;86(7):99–105, 108–10 Comment in: Postgrad Med 1990 Mar;87(4):33.

How to detect silent myocardial ischemia. Weiner DA. Postgrad Med 1989 Nov 15;86(7):81–4, 95–7

Non-invasive investigation in ischaemic heart disease. Flint J. Practitioner 1989 Mar 22;233(1465):428–31 (3 ref.)

The diagnostic accuracy of the exercise electrocardiogram: a meta-analysis of 22 years of research. Detrano R, et al. Prog Cardiovasc Dis 1989 Nov–Dec;32(3):173–206

MRI in ischemic heart disease: acute infarction, chronic infarction and contrast media in ischemic myocardial disease. Higgins CB. Radiol Med (Torino) 1990 Jun; 79(6):680–6

First-pass cardiac perfusion: evaluation with ultrafast MR imaging. Atkinson DJ, et al. Radiology 1990 Mar;174(3 Pt 1):757–62

Noninvasive methods in coronary artery disease. Resting STI and exercise tolerance after bypass surgery. Romano M, et al. Riv Eur Sci Med Farmacol 1988 Jun;10(3):199–202

Detecting asymptomatic coronary artery disease using routine exercise testing and exercise thallium scintigraphy in patients with atherosclerotic vascular disease. van der Watt FJ, et al. S Afr Med J 1990 Sep 1;78(5):232–5

Biochemical indicators of myocardial ischaemia during coronary artery bypass grafting. Kaukinen S, et al. Scand J Thorac Cardiovasc Surg 1990;24(1):71–3

Comparison of two-dimensional echocardiography and ultrafast cardiac computed tomography for evaluating intracardiac thrombi in cerebral ischemia. Love BB, et al. Stroke 1990 Jul;21(7):1033–8

Detection of occult coronary heart disease. Short FA. Trans Assoc Life Insur Med Dir Am 1990;73:45–52

IBR5: an optimal measurement of integrated backscatter and cyclic variation of integrated backscatter. Rhyne TL, et al. Ultrason Imaging 1990 Jul;12(3):189–204

Myocardial ultrasonic backscatter for characterization of ischemia and reperfusion: relationship to wall motion. Barzilai B, et al. Ultrasound Med Biol 1990;16(4):391–8

Long-term prognosis of patients with silent ischemia, symptomatic ischemia and without ischemia after acute myocardial infarction. Pollak H, et al. Wien Klin Wochenschr 1989 Sep 15;101(17):583–7

[ECG changes in persons representing present-day professions] Deianov Kh, et al. Probl Khig 1989;14:16–24 (Eng. Abstr.) (Bul)

[The clinico-diagnostic and therapeutic problems of patients with bronchial asthma combined with ischemic heart disease] Petrov D. Vutr Boles 1989;28(6):21–5 (Eng. Abstr.) (Bul)

[Rules for differentiating symptoms and signs of the heart-qi deficiency syndrome] Lin Q, et al. Chung Hsi I Chieh Ho Tsa Chih 1990 Feb;10(2):78–81, 68 (Eng. Abstr.) (Chi)

[A preliminary report on silent myocardial ischemia detected using ambulatory electrocardiogram monitoring] Feng JZ, et al. Chung Hua Nei Ko Tsa Chih 1989 Jul;28(7):390–3, 442 (Eng. Abstr.) (Chi)

[The importance of 201Tl scintigraphy in stress tests for the diagnosis of silent myocardial ischemia] Kasalický J, et al. Cas Lek Cesk 1990 Mar 30;129(13):389–93 (Eng. Abstr.) (Cze)

[Silent myocardial ischemia in diabetics] Zedníček L, et al. Sb Lek 1989 Nov;91(11–12):339–45 (Eng. Abstr.) (Cze)

[Experience with the dipyridamole test in the diagnosis of coronary insufficiency] Černý J, et al. Vnitr Lek 1989 Sep; 35(9):903–12 (Eng. Abstr.) (Cze)

[The peroral dipyridamole test in the diagnosis of coronary insufficiency (letter)] Černý J. Vnitr Lek 1989 Sep; 35(9):930–2 (Cze)

[Maximal dilatation of the coronary bed using dipyridamole in the diagnosis of coronary insufficiency] Černý J, et al. Vnitr Lek 1989 Sep;35(9):913–20 (Eng. Abstr.) (Cze)

[The peroral dipyridamole test in the diagnosis of coronary insufficiency] Miklová E, et al. Vnitr Lek 1989 Sep; 35(9):921–3 (Eng. Abstr.) (Cze)

[ECG abnormalities in the MONICA Gent–Charleroi study population] De Backer G. Arch Belg 1989;47(1–4):73–6 (Eng. Abstr.) (Dut)

[Observations on the use of exertion electrocardiography for the screening of coronary artery disease] Laarman GJ, et al. Ned Tijdschr Geneeskd 1990 Feb 24;134(8):366–70 (Dut)

[Painless obstruction of the left coronary trunk. Apropos of a case] Selton-Suty C, et al. Ann Cardiol Angeiol (Paris) 1990 Mar;39(3):161–3 (15 ref.) (Eng. Abstr.) (Fre)

[Ultrasonic diagnosis of biventricular thrombus during the acute phase of myocardial infarction] Taupin JM, et al. Ann Cardiol Angeiol (Paris) 1989 Nov;38(9):545–7 (Eng. Abstr.) (Fre)

[Discrimination attempt between stenoses of the left trunk and tritroncular involvement using univariate and multivariate analysis of the variables of the exercise test] Crosnier F, et al. Arch Mal Coeur 1989 Sep;82(9):1543–9 (Eng. Abstr.) (Fre)

[Detection of silent ischemia in hypertensive subjects with high vascular risk using continuous electrocardiogram in real time] Nguyen LD, et al. Arch Mal Coeur 1989 Jul; 82(7):1093–7 (Eng. Abstr.) (Fre)

[Silent myocardial ischemia. The practice of sports in coronary patients] Ross M, et al. Arch Mal Coeur 1989 Aug;82 Spec No 2:79–82 (Eng. Abstr.) (Fre)

[Prognostic value of the normalization of the exercise test under medical treatment in coronary insufficiency] Witchitz S, et al. Arch Mal Coeur 1989 Oct;82(10):1685–9 (Eng. Abstr.) (Fre)

[Silent myocardial ischemia in diabetics. Detection—prognostic and therapeutic implications] Passa P, et al. Diabete Metab 1989 Jul–Aug;15(4):206–8 (17 ref.) (Fre)

[Silent myocardian ischemia in the diabetic: diagnostic problems] Valensi P, et al. Diabete Metab 1989 Jul–Aug; 15(4):204–5 (13 ref.) (Fre)

[What is your diagnosis?] Mahaim C. Schweiz Rundsch Med Prax 1989 Oct 3;78(40):1083–4 (Fre)

[Intermittent claudication, myocardial ischemia and walking distance on an even surface] Monti M. Vasa Suppl 1989; 27:259–61 (Fre)

[Methods of syntactic pattern recognition in detecting specific abnormalities of the ST segment in long-term ECG recordings] Dickhaus H, et al. Biomed Tech (Berlin) 1989; 34 Suppl:34–5 (Ger)

[Microcomputer-assisted evaluation of intracoronary Doppler flow measurements] Rupprecht HJ, et al. Biomed Tech (Berlin) 1989;34 Suppl:117–8 (Ger)

[Digital image processing in angiocardiography: possibilities and significance for diagnosis and interventional therapy] Simon R. Biomed Tech (Berlin) 1989;34 Suppl:8–9 (Ger)

[What is dispensable in the diagnosis of coronary heart disease?] Bleifeld W, et al. Dtsch Med Wochenschr 1990 Aug 3;115(31–32):1201–9 (60 ref.) (Ger)

[Acute isolated ischemia of the right ventricle with ST elevation in V1 to V4] Gansser R, et al. Dtsch Med Wochenschr 1990 Mar 9;115(10):378–81 (Eng. Abstr.) (Ger)

[Silent myocardial ischemia—risk for sports in coronary groups?] Rost R, et al. Fortschr Med 1990 May 10; 108(14):270–2 (Eng. Abstr.) (Ger)

[The diagnosis of silent myocardial ischemia. The problems of false-positive findings in the exercise ECG and long-term ECG] von Arnim T. Fortschr Med 1990 May 10;108(14):267–9 (Eng. Abstr.) (Ger)

[Results of left heart catheterization study in 64 patients with nocturnal disorders of respiratory control (sleep apnea)] Riess M, et al. Pneumologie 1989 Nov;43 Suppl 1:611–5 (Eng. Abstr.) (Ger)

[Clinical presentation and diagnosis of coronary heart disease] Burckhardt D, et al. Schweiz Rundsch Med Prax 1990 Mar 6;79(10):259–66 (Eng. Abstr.) (Ger)

[A case from practice (160). Syndrome X (published erratum appears in Schweiz Rundsch Med Prax 1990 Apr 17;79(16):513)] Noll G. Schweiz Rundsch Med Prax 1990 Jan 23;79(4):79–80 (Eng. Abstr.) (Ger)

[Anemia, abnormal ECG, shock (clinical conference)] Weiss P, et al. Schweiz Rundsch Med Prax 1990 Feb 27; 79(9):237–42 (Ger)

[Silent ischemia in long-term ECG in the early post-infarct period] Nürnberg M, et al. Wien Klin Wochenschr 1989 Sep 15;101(17):580–3 (Eng. Abstr.) (Ger)

[Diagnosis of silent myocardial ischemia following myocardial infarct—how and why?] Slany J. Wien Klin Wochenschr 1989 Sep 15;101(17):571–3 (17 ref.) (Ger)

[The heart catheter protocol—understandable and informative] Koller H, et al. Wien Med Wochenschr 1989 Oct 31;139(19–20):485–8 (18 ref.) (Eng. Abstr.) (Ger)

[The value of stress tests in arterial hypertension] Purfürst WD, et al. Z Arztl Fortbild (Jena) 1990;84(10):481–6 (36 ref.) (Ger)

[Significance of 2-dimensional echocardiography for the diagnosis of dipyridamole-induced myocardial ischemia in patients with coronary heart disease] Gawor Z, et al. Z Gesamte Inn Med 1990 Jan 1;45(1):5–8 (Eng. Abstr.) (Ger)

[The importance of two-dimensional echocardiography in conjunction with trans-esophageal stimulation of the left atrium for the diagnosis of myocardial ischemia] Gawor Z, et al. **Z Gesamte Inn Med** 1989 Dec 15;44(24):736–40 (Eng. Abstr.) (Ger)

[Is patient education using audiovisual methods helpful?] Herrmann KS, et al. **Z Kardiol** 1990 May;79(5):354–8 (Eng. Abstr.) (Ger)

[Validation of trend-supported ST segment analysis of long-term ECG recordings] Hoberg E, et al. **Z Kardiol** 1990 Feb;79(2):107–12 (Eng. Abstr.) (Ger)

[Ventricular arrhythmia in silent myocardial ischemia—diagnosis and clinical relevance] Zehender M, et al. **Z Kardiol** 1989;78 Suppl 5:55–62 (67 ref.) (Eng. Abstr.) (Ger)

[Septal Q wave responses to exertion in the diagnosis of proximal stenosis of the anterior descending coronary artery] Csanádi Z, et al. **Orv Hetil** 1990 Jun 24; 131(25):1357–8, 1361–2 (Eng. Abstr.) (Hun)

[Cardiolite (99m-Tc-isonitrile) SPECT studies in patients prior to coronary bypass surgery] Mester J, et al. **Orv Hetil** 1990 Jan 28;131(4):167–72 (20 ref.) (Eng. Abstr.) (Hun)

[Non-invasive diagnosis of cardiovascular diseases] Fazzini PF, et al. **Ann Ital Med Int** 1986 Jun;1(2):161–5 (6 ref.) (Eng. Abstr.) (Ita)

[Recognition of silent myocardial ischemia] Santoro GM. **G Ital Cardiol** 1989 Aug;19(8):711–9 (25 ref.) (Ita)

[Diagnostic value of Q wave changes during the exercise test. Review of the literature and personal experience] Facchin D, et al. **Minerva Cardioangiol** 1989 Jun; 37(6):273–9 (36 ref.) (Eng. Abstr.) (Ita)

[Possibilities of studying transient myocardial ischemia using magnetic resonance] Casolo G, et al. **Radiol Med (Torino)** 1990 Jun;79(6):687–95 (Ita)

[Multivariate prediction of the first major coronary event. The Italian experience in a 25 years follow-up] Menotti A, et al. **Recenti Prog Med** 1990 Apr;81(4):238–44 (Eng. Abstr.) (Ita)

[Clinical significance of prominent negative T waves induced by exercise test] Chikamori T, et al. **J Cardiol** 1989 Sep; 19(3):741–8 (Eng. Abstr.) (Jpn)

[Accuracy of the Master's exercise test in detecting significant coronary artery disease] Kuzume O, et al. **J Cardiol** 1988 Dec;18(4):967–77 (Eng. Abstr.) (Jpn)

[Diagnosis of stenotic lesion of left coronary artery by transesophageal Doppler echocardiography] Yamada S, et al. **J Cardiol Suppl** 1989;22:129–31 (Jpn)

[Clinical application of an ambulatory monitoring system (VEST) with cadmium telluride (CdTe) detector—Evaluation of left ventricular function immediately after exercise] Chiba H, et al. **Kaku Igaku** 1989 Dec;26(12):1575–84 (Jpn)

[Studies on evaluation of the oxygen transport system function with multistage treadmill stress testing: comparison between normal control subjects and patients with coronary heart disease] Doba N, et al. **Kokyu To Junkan** 1989 Jul;37(7):785–9 (Eng. Abstr.) (Jpn)

[Early recognition of exercise-induced myocardial ischemia by plasma free fatty acid] Kamihara S, et al. **Kokyu To Junkan** 1989 Jul;37(7):779–84 (Eng. Abstr.) (Jpn)

[Prediction of coronary artery disease using post exercise T wave change] Okada M, et al. **Kokyu To Junkan** 1989 Aug;37(8):895–901 (Eng. Abstr.) (Jpn)

[Non-invasive detection of asymptomatic coronary disease] Arva P, et al. **Tidsskr Nor Laegeforen** 1989 Sep 30; 109(27):2762–5 (Eng. Abstr.) (Nor)

[A map for recording of 15 precordial leads improves the sensitivity of the exercise test] Chamiec T, et al. **Kardiol Pol** 1989;32(4):202–6 (Eng. Abstr.) (Pol)

[Value of Holter monitoring and the electrocardiographic exercise test in the diagnosis of silent ischemia after myocardial infarction] Dąbrowski A, et al. **Kardiol Pol** 1989;32(10–12):427–33 (Eng. Abstr.) (Pol)

[Value of the analysis of left-ventricular systolic time intervals in the diagnosis of ischemic heart disease provoked by intravenous infusion of isoproterenol] Markiewicz K, et al. **Kardiol Pol** 1989;32(3):159–66 (Eng. Abstr.) (Pol)

[Silent myocardial ischemia in patients after myocardial infarction] Moczurad KW, et al. **Kardiol Pol** 1989;32 Suppl 2:17–24 (Eng. Abstr.) (Pol)

[Photogrammetric methods of measuring coronary artery stenosis] Rychlewski G. **Kardiol Pol** 1989;32 Suppl 1:23–9 (Pol)

[Silent ischemia] Klęczar E, et al. **Wiad Lek** 1990 Jan 1–15; 43(1–2):80–4 (27 ref.) (Eng. Abstr.) (Pol)

[Clinical picture of pathological conditions with electrocardiographic features of the LGL syndrome] Parpan T, et al. **Wiad Lek** 1989 Apr 30;42(8):540–4 (Eng. Abstr.) (Pol)

[Silent myocardial ischemia: 3 years' experience with Holter] de Pádua F, et al. **Acta Med Port** 1990 Jan–Feb;3(1):15–20 (Eng. Abstr.) (Por)

[Silent myocardial ischemia. Experience with ambulatory electrocardiographic monitoring] Azevedo A de C, et al. **Arq Bras Cardiol** 1989 Jan;52(1):5–12 (Eng. Abstr.) (Por)

[Silent ischemia in patients with previous myocardial infarct. Correlation of Holter and coronarography] Carvalho M, et al. **Rev Port Cardiol** 1989 Dec;8(12):843–7 (Eng. Abstr.) (Por)

[Comparison of Holter electrocardiography and thallium 201 scintigraphy in the detection of myocardial ischemia] Correia MJ, et al. **Rev Port Cardiol** 1989 Feb;8(2):95–101 (Eng. Abstr.) (Por)

[Difficulties in the diagnosis of silent myocardial ischemia using continuous ambulatory electrocardiographic monitoring—the Holter method] de Azevedo SG. **Rev Port Cardiol** 1989 Feb;8(2):89–92 (30 ref.) (Eng. Abstr.) (Por)

[Holter ECG in evaluating myocardial ischemia. Validation using the exercise test] Longo A, et al. **Rev Port Cardiol** 1989 Feb;8(2):105–9 (Eng. Abstr.) (Por)

[The early exercise test following an acute myocardial infarct in selecting patients with an increased coronary risk] Bostaca I. **Rev Med Interna [Med Interna]** 1989 May–Jun; 41(3):221–7 (17 ref.) (Rum)

[The detection and treatment of asymptomatic myocardial ischemia to reduce morbidity and mortality from ischemic cardiopathy] Velican C, et al. **Rev Med Interna [Med Interna]** 1989 Nov–Dec; 41(6):481–90 (23 ref.) (Eng. Abstr.) (Rum)

[The diagnostic potentials of the "level of neurotization" scale in patients with ischemic heart disease] Zaltsev VP, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):30–2 (Eng. Abstr.) (Rus)

[Painless myocardial ischemia in patients with stable stenocardia] Furkalo NK, et al. **Kardiologiia** 1990 Apr; 30(4):54–7 (Eng. Abstr.) (Rus)

[Electrocardiographic loading tests in persons with various ECG changes (findings of epidemiological studies)] Nikitin IuP, et al. **Kardiologiia** 1989 Dec;29(12):77–81 (Eng. Abstr.) (Rus)

[Correlations of ECG ST segment changes and indicators of left ventricular function in patients with unstable stenocardia during the atrial stimulation test] Pomerantsev EV, et al. **Kardiologiia** 1989 Jul;29(7):59–63 (Eng. Abstr.) (Rus)

[Evaluation of results of the exercise test in females with ischemic heart disease] Rudakova TL, et al. **Kardiologiia** 1989 Dec;29(12):98–9 (Rus)

[Use of transesophageal stimulation of the left atrium in the diagnosis of ischemia and cicatricial myocardial changes in patients with complete block of the left fascicle of the bundle of His] Shu'lman VA, et al. **Kardiologiia** 1989 Jul; 29(7):43–6 (Eng. Abstr.) (Rus)

[Diagnosis of critical stenosis of the coronary arteries in patients with ischemic heart disease] Sudzhaeva SG, et al. **Kardiologiia** 1989 Aug;29(8):19–21 (Eng. Abstr.) (Rus)

[Tl-201 scintigraphy of the myocardium in combination with pharmacological tests in the diagnosis of ischemic heart disease] Tokareva EA, et al. **Kardiologiia** 1989 Dec; 29(12):73–7 (Eng. Abstr.) (Rus)

[Value of 24-hour ECG Holter monitoring in the evaluation of painless episodes of ST segment depression in patients with ischemic heart disease] Vezhin'ska B, et al. **Kardiologiia** 1990 Apr;30(4):57–60 (Eng. Abstr.) (Rus)

[Diagnostic possibilities of transesophageal electric stimulation in middle-aged and elderly patients with ischemic heart disease] Zhivoderov VM, et al. **Kardiologiia** 1989 Oct;29(10):111–2 (Rus)

[Use of transesophageal electrostimulation of the atrium and nitroglycerin test in the evaluation of the degree of risk of the development of cardiac complications after reconstructive surgery in patients with Leriche's syndrome] Gusak VK, et al. **Klin Khir** 1989;(7):43–4 (Eng. Abstr.) (Rus)

[Combined hypothyroidism and adrenal failure against the background of a tuberculous process in a female patient with ischemic heart disease] Golikov AA, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):42–3 (Rus)

[Diastolic function of the heart in ischemic reaction to bicycle ergometric test] Iuzbashev ZIu, et al. **Sov Med** 1990; (2):119–20 (Rus)

[Functional tests in the diagnosis of ischemic heart disease in chronic nonspecific lung diseases] Lazebnik LB, et al. **Sov Med** 1989;(11):61–3 (Rus)

[Silent myocardial ischemia] Nikolaeva LF, et al. **Sov Med** 1990;(6):35–8 (Rus)

[A comparative evaluation of loading tests for the diagnosis of ischemic heart disease at the prehospital stage] Ashmarin IIu, et al. **Ter Arkh** 1990;62(4):61–6 (Eng. Abstr.) (Rus)

[The characteristics of the clinical picture and course of gastric and duodenal peptic ulcer in patients with ischemic heart disease] Korzhikov VV, et al. **Ter Arkh** 1990; 62(2):50–2 (Eng. Abstr.) (Rus)

[Characteristics of the clinical manifestations of stenocardia in patients with ischemic heart disease, without myocardial infarct, in relation to the state of the coronary bed] Kuliev OA, et al. **Ter Arkh** 1990;62(4):52–8 (Eng. Abstr.) (Rus)

[Diagnostic potential of the first ECG derivative in assessing the coronary artery status of patients with ischemic heart disease] Volkova EG, et al. **Ter Arkh** 1990;62(4):35–8 (Eng. Abstr.) (Rus)

[Principles of selection, diagnosis and treatment of patients with vasorenal hypertension and ischemic heart disease at a surgical department] Gel'shtein GG, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):3–12 (47 ref.) (Rus)

[The problem of the clinical features and treatment of ischemic heart disease in elderly people] Malygin VP, et al. **Voen Med Zh** 1989 Jun;(6):24–6 (Rus)

[Assessment of the work capacity of patients with ischemic heart disease having undergone aortocoronary shunting] Bykorez VA, et al. **Vrach Delo** 1989 Oct;(10):68–70 (Eng. Abstr.) (Rus)

[The differential diagnosis of diabetic cardiopathy and ischemic heart disease in diabetics] Garagan SF. **Vrach Delo** 1990 Feb;(2):61–3 (Eng. Abstr.) (Rus)

[The work capacity of patients with chronic nonspecific lung diseases combined with ischemic heart disease] Koleanik FA, et al. **Vrach Delo** 1989 Jul;(7):65–6 (Rus)

[The differentiated electrocardiogram in the diagnosis of acute forms of ischemic heart disease] Malinovskaia IZ, et al. **Vrach Delo** 1990 Mar;(3):50–2 (Eng. Abstr.) (Rus)

[Holter monitoring in the evaluation of myocardial ischemia] Ilić S, et al. **Srp Arh Celok Lek** 1987 Jul;115(7):781–8 (Scc)

[Relative mass and serum lipids in men with various coronary scores] Kussá O, et al. **Vnitr Lek** 1990 Apr;36(4):342–8 (Eng. Abstr.) (Slo)

[Silent myocardial ischemia: a problem in diagnosis and treatment] González Carmona VM, et al. **Arch Inst Cardiol Mex** 1989 Nov–Dec;59(6):567–71 (Eng. Abstr.) (Spa)

[Value of the exercise test in asymptomatic myocardial ischemia] Iturralde P, et al. **Arch Inst Cardiol Mex** 1990 Jan–Feb;60(1):45–51 (Eng. Abstr.) (Spa)

[Sensitivity and specificity of the exertion test in elderly patients] Aparici M, et al. **Med Clin (Barc)** 1989 Sep 30; 93(9):321–4 (Eng. Abstr.) (Spa)

[Apical hypertrophic myocardiopathy: differential diagnosis with ischemic cardiopathy] Castella L, et al. **Med Clin (Barc)** 1990 May 12;94(18):704–5 (Eng. Abstr.) (Spa)

[Indications for the exertion test] Magriñá J. **Med Clin (Barc)** 1989 Sep 30;93(9):335–7 (37 ref.) (Spa)

[Quantitative evaluation of the exercise test using discriminant analysis] Azpitarte J, et al. **Rev Esp Cardiol** 1989 Jan;42(1):25–35 (Eng. Abstr.) (Spa)

[Prognostic significance of silent ischemia in the exercise test in patients with coronary disease] Marín Huerta E, et al. **Rev Esp Cardiol** 1990 Feb;43(2):72–9 (Eng. Abstr.) (Spa)

[Validation of the Holter method in detecting myocardial ischemia using an exercise test simultaneously] Rayo I, et al. **Rev Esp Cardiol** 1990 May;43(5):316–22 (Eng. Abstr.) (Spa)

DIET THERAPY

Fish oil supplements and restenosis after percutaneous transluminal coronary angioplasty [letter] Reis GJ, et al. **Am J Cardiol** 1990 Aug 1;66(3):385–6

XbaI polymorphism of the apolipoprotein B gene influences plasma lipid response to diet intervention. Tikkanen MJ, et al. **Clin Genet** 1990 May;37(5):327–34

Fatty acid pattern outcomes of a nutritional program for overweight and hyperlipidemic Australian men. Stewart AJ, et al. **J Am Coll Nutr** 1990 Apr;9(2):107–13

Lipid research in Greenland. Preventive and therapeutic consequences. Bang HO. **Scand J Soc Med** 1990;18(1):53–7 (28 ref.)

[Individual sensitivity to hypolipidemic factors in ischemic heart disease] Liapkov BG, et al. **Sov Med** 1989;(9):16–8 (Rus)

[The role of emotional-volitional traits in patients with ischemic heart disease in carrying out dietetic recommendations during long-term clinical observation] Samsonov MA, et al. **Vopr Pitan** 1989 Sep–Oct;(5):28–33 (Eng. Abstr.) (Rus)

DRUG THERAPY

The antifibrillatory effect of fentanyl, sufentanil and carfentanil in the acute phase of local myocardial ischaemia in the dog. Hess L, et al. **Acta Cardiol** 1989;44(4):303–11

Ketanserin in congestive heart failure [letter] Lambert M, et al. **Acta Clin Belg** 1989;44(2):140–1

Effects of the lipolysis inhibiting agent beta-pyridylcarbinol (Ronicol) in acute myocardial ischaemia. Fazekas T, et al. **Acta Physiol Hung** 1989;74(2):169–74

New insights into the management of myocardial ischemia. San Francisco, California, November 3–4, 1989. Proceedings of a symposium. **Am Heart J** 1990 Sep; 120(3):719–72

New insights into the management of myocardial ischemia. Overview. Abrams J. **Am Heart J** 1990 Sep;120(3):719–21; discussion 743–5

Management of myocardial ischemia: role of intermittent nitrate therapy. Abrams J. **Am Heart J** 1990 Sep; 120(3):762–5; discussion 769–72 (25 ref.)

Effects of glyburide on ischemia-induced changes in extracellular potassium and local myocardial activation: a potential new approach to the management of ischemia-induced malignant ventricular arrhythmias. Bekheit SS, et al. **Am Heart J** 1990 May;119(5):1025–33

Negative inotropic effect of intravenous nifedipine in coronary artery disease: relation to plasma levels. Clifton GD, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):283–90

Antiischemic properties of amlodipine, a new calcium

antagonist, in patients with severe coronary artery disease: a prospective trial. Estrada JN, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1130–2

The role of calcium antagonists in the treatment of myocardial ischemia. Follath F. **Am Heart J** 1989 Nov; 118(5 Pt 2):1093–6; discussion 1096–7 (37 ref.)

The effects of long–term antithrombotic treatment on left ventricular thrombi in patients after an acute myocardial infarction. Kouvaras G, et al. **Am Heart J** 1990 Jan; 119(1):73–8

Acute antianginal hemodynamic effects of nicardipine in coronary artery disease. Lambert CR, et al. **Am Heart J** 1990 Feb;119(2 Pt 2):457–62

Pharmacologic management of ischemic heart disease with beta–blockers and calcium channel blockers. Pearle DL. **Am Heart J** 1990 Sep;120(3):739–42; discussion 743–5

A hemodynamic comparison of verapamil, diltiazem, and amlodipine in coronary artery disease. Taylor SH, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1105–6

The efficacy of amlodipine in myocardial ischemia. Taylor SH. **Am Heart J** 1989 Nov;118(5 Pt 2):1123–6 (7 ref.)

Effect of a modified, well–tolerated niacin regimen on serum total cholesterol, high density lipoprotein cholesterol and the cholesterol to high density lipoprotein ratio. Alderman JD, et al. **Am J Cardiol** 1989 Oct 1;64(12):725–9

Nitrate therapy in the elderly. Alpert JS. **Am J Cardiol** 1990 Jun 4;65(21):23J–27J (36 ref.)

Long–acting, marked antiischemic effect maintained unattenuated during long–term interval treatment with once–daily isosorbide–5–mononitrate in sustained–release form. Beyerle A, et al. **Am J Cardiol** 1990 Jun 15; 65(22):1434–7

Interval treatment of coronary artery disease with sustained–release isosorbide–5–mononitrate. Jansen W, et al. **Am J Cardiol** 1990 Jun 4;65(21):16J–22J

Reduction of myocardial ischemia during percutaneous transluminal coronary angioplasty with oxygenated Fluosol. Kent KM, et al. **Am J Cardiol** 1990 Aug 1; 66(3):279–84

Changes in diameter of coronary narrowings and translesional hemodynamics after intracoronary nitroglycerin. Kimball BP, et al. **Am J Cardiol** 1990 Sep 15;66(7):705–9

Influence of beta–adrenergic blockade defined by time series analysis on circadian variation of heart rate and ambulatory myocardial ischemia. Lambert CR, et al. **Am J Cardiol** 1989 Oct 15;64(14):835–9

Assessment of the hemodynamic response to acetyl–strophanthidin by Doppler echocardiography in normal subjects and in those with coronary artery disease or idiopathic dilated cardiomyopathy. Lange HW, et al. **Am J Cardiol** 1990 Mar 15;65(11):804–7

Prevention of creatine kinase–MB release in coronary artery disease and pacing–induced myocardial ischemia by isosorbide dinitrate spray. Marmor A, et al. **Am J Cardiol** 1990 Jun 4;65(21):36J–38J

Differential therapy of hypertensive heart disease. Motz WH, et al. **Am J Cardiol** 1990 Apr 3;65(14):60G–64G (40 ref.)

Amlodipine, a long–acting calcium antagonist drug reduces ischemia–induced ventricular conduction delay in pig hearts. Rämö MP, et al. **Am J Cardiol** 1989 Nov 7; 64(17):78I–83I

Hemodynamic assessment of nicardipine alone and with atenolol in coronary artery disease using a modified echo–Doppler device. Silke B, et al. **Am J Cardiol** 1989 Oct 17;64(15):28H–34H

Left ventricular excursions and velocities during coronary arterial ligation. Effects of nitroglycerin infusion in an experimental model. Kounis NG, et al. **Angiology** 1989 Oct; 40(10):899–906

Coronary thrombolysis [letter; comment] **Ann Intern Med** 1990 Jul 15;113(2):171 Comment on: Ann Intern Med 1990 Apr 1;112(7):529–38.

Low–dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements [see comments] Taggart DP, et al. **Ann Thorac Surg** 1990 Sep;50(3):424–8 Comment in: Ann Thorac Surg 1990 Sep;50(3):345.

Reduction of in vivo coronary artery thrombosis by the novel thromboxane antagonist (3R)–3–(4–fluorophenylsulfonamido)–1,2,3,4–tetrahydro–9– carbazolepropanoic acid. Fiedler VB, et al. **Arzneimittelforschung** 1989 Dec;39(12):1527–30

Efficacy of the glyceryl trinitrate transdermal therapeutic system in a dog model of myocardial ischaemia. Nakao K, et al. **Arzneimittelforschung** 1989 Nov;39(11):1421–5

Atherosclerosis and coronary heart disease. Scheitler G, et al. **Arzneimittelforschung** 1989 Aug;39(8A):948–50; discussion 950–1 (21 ref.)

Aspirin and coronary heart disease. Clinical applications. Koutts J. **Aust Fam Physician** 1990 Feb;19(2):217, 221–3

Effect of D–600 on ischemic and reperfused rabbit myocardium: relation with timing and modality of administration. Ferrari R, et al. **Basic Res Cardiol** 1989 Nov–Dec;84(6):606–22

Cardiovascular effects of forskolin and phosphodiesterase–III inhibitors. Schlepper M, et al. **Basic Res Cardiol** 1989;84 Suppl 1:197–212 (42 ref.)

Manipulation of myocardial alpha–tocopherol levels fails to affect reperfusion arrhythmias or functional recovery following ischemic challenge in the rat heart. Shuter SL, et al. **Basic Res Cardiol** 1989 Jul–Aug;84(4):421–30

Inhibition of factor XIIIa in a canine model of coronary thrombosis: effect on reperfusion and acute reocclusion after recombinant tissue–type plasminogen activator. Shebuski RJ, et al. **Blood** 1990 Apr 1;75(7):1455–9

Effects of xamoterol, a beta 1 adrenoceptor partial agonist, in patients with ischaemic dysfunction of the left ventricle. Vigholt–Sørensen E, et al. **Br Heart J** 1989 Nov; 62(5):335–41

Haemodynamic dose–response effects of UK–52,046 in ischaemic disease with or without impaired left ventricular function. Silke B, et al. **Br J Clin Pharmacol** 1990 Jun; 29(6):749–58

Haemodynamic and radionuclide effects of amlodipine in coronary artery disease. Silke B, et al. **Br J Clin Pharmacol** 1990 Apr;29(4):437–45

ACE inhibitors in acute and chronic ischaemia: current status and future promise. Sonnenblick EH, et al. **Br J Clin Pharmacol** 1989;28 Suppl 2:159S–164S; discussion 164S–165S (37 ref.)

Effects of verapamil on ischaemia–induced impairment of ATP–dependent calcium extrusion in rat heart sarcolemma. van Amsterdam FT, et al. **Br J Pharmacol** 1989 Sep; 98(1):161–6

Bolus administration of esmolol for the treatment of intraoperative myocardial ischaemia [see comments] Miller DR, et al. **Can J Anaesth** 1989 Sep;36(5):593–7 Comment in: Can J Anaesth 1990 Apr;37(3):389–90.

Fatal angioedema associated with enalapril. Giannoccaro PJ, et al. **Can J Cardiol** 1989 Oct;5(7):335–6

Conversion from intravenous procainamide to oral sustained release tablets in cardiac patients. Kalin ML, et al. **Can J Cardiol** 1990 Jan–Feb;6(1):15–8

Restoration of flow in acute coronary obstructive syndromes [letter; comment] Naylor CD. **Can J Cardiol** 1989 Sep; 5(6):VII Comment on: Can J Cardiol 1989 Apr;5(3):129–35.

Delayed recovery of homogeneous perfusion distribution in isolated rat heart after vasodilatation induced by alpha 1 adrenoceptor blockade during postischaemic reperfusion. Mohanlal RW, et al. **Cardiovasc Res** 1989 Nov; 23(11):934–40

Management of complicated coronary angioplasty by intracoronary urokinase and immediate re–angioplasty. Verna E, et al. **Cathet Cardiovasc Diagn** 1990 Feb; 19(2):116–22

Thrombolysis in cardiopulmonary disease. **Chest** 1990 Apr; 97(4 Suppl):115S–181S

Use of tissue plasminogen activator in the coronary care unit for acute closure after coronary angioplasty. Alzarka A, et al. **Chest** 1990 May;97(5):1241–2

Achievements in clinical research of treating internal diseases with traditional Chinese medicine in recent years. Chen KJ, et al. **Chin Med J [Engl]** 1989 Oct;102(10):735–9

Calcium entry blockers: usefulness in ischemia and hypertensive heart disease. September 23 to 28, 1988, Cannes, France. Proceedings. **Circulation** 1989 Dec;80(6 Suppl):IV1–188

Theoretical considerations in the use of calcium entry blockers in silent myocardial ischemia. Crawford MH. **Circulation** 1989 Dec;80(6 Suppl):IV74–7 (21 ref.)

Combined effects of nitrates on the coronary and peripheral circulation in exercise–induced ischemia. De Coster PM, et al. **Circulation** 1990 Jun;81(6):1881–6

Incidence of sudden cardiac death associated with coronary artery occlusion in dogs with hypertension and left ventricular hypertrophy is reduced by chronic beta–adrenergic blockade. Dellsperger KC, et al. **Circulation** 1990 Sep;82(3):941–50

Therapeutic rationale for the management of silent ischemia. Fox KM, et al. **Circulation** 1990 Sep;82(3 Suppl):II155–60 (32 ref.)

Mechanisms of improved ischemic regional dysfunction by bradycardia. Studies on UL–FS 49 in swine. Indolfi C, et al. **Circulation** 1989 Oct;80(4):983–93

Metabolic protection by verapamil during graded coronary flow reduction independent of effect on baseline systolic function. Separation of mechanical and ionic markers of ischemia. Jenkins MG, et al. **Circulation** 1989 Dec; 80(6):1870–7

Antiplatelet antibody [7E3 F(ab')2] prevents rethrombosis after recombinant tissue–type plasminogen activator–induced coronary artery thrombolysis in a canine model. Mickelson JK, et al. **Circulation** 1990 Feb; 81(2):617–27

Prostacyclin analogue iloprost decreases thrombolytic potential of tissue–type plasminogen activator in canine coronary thrombosis. Nicolini FA, et al. **Circulation** 1990 Mar;81(3):1115–22

Effects of the beta 1–adrenergic receptor partial agonist xamoterol on left ventricular diastolic function. An evaluation after 1–6 years of oral therapy. Pouleur H, et al. **Circulation** 1990 Feb;81(2 Suppl):III87–92

Effects of benazeprilat on left ventricular systolic and diastolic function and neurohumoral status in patients with ischemic heart disease. Rousseau MF, et al. **Circulation** 1990 Feb;81(2 Suppl):III123–9

Aurintricarboxylic acid in a canine model of coronary artery thrombosis. Strony J, et al. **Circulation** 1990 Mar; 81(3):1106–14

The effects of calcium entry blockade on normal and ischemic ventricular diastolic function. Walsh RA. **Circulation** 1989 Dec;80(6 Suppl):IV52–8 (48 ref.)

Improved diastolic LV filling after acute application of ajmaline in patients with coronary artery disease and normal systolic LV function. Hüting J, et al. **Clin Cardiol** 1990 Jul;13(7):485–9

Influence of calcium channel antagonist therapy on the ischemic response to acute coronary occlusion in humans. Kern MJ. **Clin Cardiol** 1989 Jul;12(7 Suppl 3):III77–85 (60 ref.)

Aspirin and dipyridamole and their limitations in the therapy of coronary artery disease. Rowe GG, et al. **Clin Cardiol** 1990 Mar;13(3):165–70 (80 ref.)

Effects of adenosine antagonism and beta–blockade during low–flow ischaemia in rat heart. Headrick JP, et al. **Clin Exp Pharmacol Physiol** 1989 Nov;16(11):885–91

Relationship between systemic and coronary vascular responses to digoxin and concurrent drug therapy with verapamil/beta–adrenoceptor antagonists in humans. Powell AC, et al. **Clin Exp Pharmacol Physiol** 1990 Jun; 17(6):453–62

Current concepts of silent myocardial ischemia. Bleske BE, et al. **Clin Pharm** 1990 May;9(5):339–57 (119 ref.)

Antiplatelet agents in coronary artery disease. Schrader BJ, et al. **Clin Pharm** 1990 Feb;9(2):118–24 (60 ref.)

Sustained–release diltiazem in patients with effort angina and severe coronary artery sclerosis. Mizuki T, et al. **Clin Ther** 1990 Mar–Apr;12(2):172–80

The development of coronary insufficiency during prolonged treatment of essential hypertension. Kalnins UV, et al. **Cor Vasa** 1990;32(1):64–71

Antithrombotic therapy for patients with cardiac disease. Penny WJ, et al. **Curr Probl Cardiol** 1988 Jul;13(7):433–513 (329 ref.)

Apparent failure of edetic acid chelation therapy for the treatment of coronary atherosclerosis. Wirebaugh SR, et al. **DICP** 1990 Jan;24(1):22–5

New aspects of drug therapy in ischaemic heart disease. 15–18 June 1989, Würzburg, F.R.G. Proceedings. **Eur Heart J** 1990 Apr;11 Suppl B:1–138

ST/HR slope during prostacyclin treatment: an improved method to identify patients with advanced coronary artery disease. Bugiardini R, et al. **Eur Heart J** 1989 Nov; 10(11):991–7

New aspects of drug therapy in ischaemic heart disease. Introduction. Ertl G, et al. **Eur Heart J** 1990 Apr;11 Suppl B:1–4

Diltiazem alone and combined with nitroglycerin: effect on normal and diseased human coronary arteries. Hess OM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:142–6

Effect of intracoronary and intravenous propranolol on human coronary arteries. Hess OM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:153–8

Coronary vasodilation with dihydropyridines—a pharmacokinetic study. Jost S, et al. **Eur Heart J** 1989 Nov; 10 Suppl F:147–52

Drug plasma levels and coronary vasodilation after isosorbide dinitrate chewing capsules. Jost S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:137–41

Myocardial and coronary effects of captopril during pacing–induced ischaemia in patients with coronary artery disease. Karsch KR, et al. **Eur Heart J** 1990 Apr;11 Suppl B:157–61

Cardioprotective effects of captopril in myocardial ischaemia, ischaemia/reperfusion and infarction. Mehta PM, et al. **Eur Heart J** 1990 Apr;11 Suppl B:94–9 (30 ref.)

Basic pharmacology of ACE–inhibitors with respect to ischaemic heart disease: prostaglandins and bradykinin. van Wijngaarden J, et al. **Eur Heart J** 1990 Apr;11 Suppl B:84–93 (92 ref.)

Clinical efficacy of xamoterol, a beta 1–adrenoceptor partial agonist, in mild to moderate heart failure. U.K. Xamoterol Study Group. Waller DG, et al. **Eur Heart J** 1989 Nov; 10(11):1003–10

New aspects of nitrate therapy in coronary artery disease. **Eur J Clin Pharmacol** 1990;38 Suppl 1:S1–76

Pharmacology and clinical pharmacology of organic nitrates. Grobecker H. **Eur J Clin Pharmacol** 1990;38 Suppl 1:S3–7 (22 ref.)

Ranolazine (RS–43285): a preliminary study of a new anti–anginal agent with selective effect on ischaemic myocardium. Jain D, et al. **Eur J Clin Pharmacol** 1990; 38(2):111–4

Comparison of haemodynamic effects of nifedipine and molsidomine in patients with coronary artery disease. Kyriakidis M, et al. **Eur J Clin Pharmacol** 1989;37(5):443–7

Isosorbide dinitrate in the treatment of silent myocardial ischaemia in patients after myocardial infarction: an open pilot study [letter] Moczurad KW, et al. **Eur J Clin Pharmacol** 1989;37(6):621–2

Nitrates: why and how should they be used today? Current status of the clinical usefulness of nitroglycerin, isosorbide dinitrate and isosorbide–5–mononitrate. Silber S. **Eur J Clin Pharmacol** 1990;38 Suppl 1:S35–51 (279 ref.)

Effects of an alpha–tocopherol analogue on myocardial ischaemia and reperfusion injury in rats. Petty M, et al. **Eur J Pharmacol** 1990 Apr 10;179(1–2):241–2

Anti–ischemic effects of celiprolol in patients with exercise–induced angina pectoris. Douard H, et al. **Int J Cardiol** 1989 Oct;25(1):63–8

Effect of prostacyclin on coronary occlusion in acute myocardial infarction. Hackett D, et al. **Int J Cardiol** 1990 Jan;26(1):53–7

Hemodynamic and adrenergic effects of combined alpha/beta–receptor blockade versus combined beta–receptor and slow channel calcium blockade in

patients with ischemic heart disease. Koch G, et al. **Int J Cardiol** 1989 Oct;25(1):73–9

Defibrotide, a stimulator of prostacyclin (PGI2) production, prevents the effects of ischaemic damage. Ferrero ME, et al. **Int J Tissue React** 1989;11(4):179–84

The new phosphodiesterase inhibitor enoximone in patients following cardiac surgery—pharmacokinetics and influence on parameters of coagulation. Boldt J, et al. **Intensive Care Med** 1990;16(1):54–9

Effect of nisoldipine on myocardial ischemia during daily activities: a preliminary report. Banai S, et al. **Isr J Med Sci** 1989 Sep;25(9):524–7

Enhancing thrombolytic efficacy by means of "front-loaded" administration of tissue plasminogen activator [comment] Braunwald E. **J Am Coll Cardiol** 1989 Nov 15;14(6):1570–1 Comment on: J Am Coll Cardiol 1989 Nov 15;14(6):1566–9.

Reperfusion, specific thrombin inhibition and reocclusion after thrombolysis [editorial; comment] Chesebro JH, et al. **J Am Coll Cardiol** 1990 Sep;16(3):723–5 Comment on: J Am Coll Cardiol 1990 Sep;16(3):714–22.

Optimal criteria for rapid detection of myocardial reperfusion by creatine kinase MM isoforms in the presence of residual high grade coronary stenosis. Nohara R, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1067–73

Coronary thrombolysis and the new biology. Sobel BE. **J Am Coll Cardiol** 1989 Oct;14(4):850–60 (46 ref.)

Combined thromboxane A2 synthetase inhibition and receptor blockade are effective in preventing spontaneous and epinephrine-induced canine coronary cyclic flow variations. Yao SK, et al. **J Am Coll Cardiol** 1990 Sep; 16(3):705–13

Comparative effects of aspirin, a synthetic thrombin inhibitor and a monoclonal antiplatelet glycoprotein IIb/IIIa antibody on coronary artery reperfusion, reocclusion and bleeding with recombinant tissue-type plasminogen activator in a canine preparation [see comments] Yasuda T, et al. **J Am Coll Cardiol** 1990 Sep;16(3):714–22 Comment in: J Am Coll Cardiol 1990 Sep;16(3):723–5.

Worldwide clinical experience with ACE inhibitors: the role of quinapril. Proceedings of investigators' meeting. Marbella, Spain, June 10–11, 1989. **J Cardiovasc Pharmacol** 1990;15 Suppl 2:S1–63

Evolving concepts in the medical management of hypertension and ischemic heart disease. Proceedings of an international symposium. Paris, France, March 21–22, 1986. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S1–135

Cardiac anti-ischemic effect of metoprolol: role of beta-blockade within the ischemic region. Ablad B, et al. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S117–25; discussion S126–7

The effect of felodipine on the sinus and atrioventricular nodes in patients with ischemic heart disease. Amlie JP, et al. **J Cardiovasc Pharmacol** 1990;15 Suppl 4:S25

Antiarrhythmic and electrophysiologic actions of CK–3579 and sematilide in a conscious canine model of sudden coronary death. Chi LG, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):312–24

Should we treat silent ischaemia? Fox KM. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S34–6; discussion S37

ACE inhibition with cilazapril improves myocardial perfusion to the ischemic regions during exercise: a pilot study. Gasic S, et al. **J Cardiovasc Pharmacol** 1990 Feb; 15(2):227–32

Nicorandil improves postischemic contractile function independently of direct myocardial effects. Grover GJ, et al. **J Cardiovasc Pharmacol** 1990 May;15(5):698–705

Anti-ischemic activity of the novel benzazepine calcium antagonist SQ 31,486. Grover GJ, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):219–27

Factors influencing the choice of first-line treatment in chronic ischaemic heart disease. Julian DG. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S48–50 (0 ref.)

The efficacy of xamoterol in heart failure of ischemic origin. Marlow HF. **J Cardiovasc Pharmacol** 1989;14 Suppl 5:S69–72 (29 ref.)

Superoxide dismutase decreases reperfusion arrhythmias and preserves myocardial function during thrombolysis with tissue plasminogen activator. Mehta JL, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):112–20

Beta-blockade in ischemic heart disease and hypertension. Olsson G, et al. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S56–9 discussion S60 (20 ref.)

Effects of thrombolytic agents on coronary recanalization and patency, cardiac enzyme release, left ventricular function, and mortality in patients with acute myocardial infarction. Verstraete M. **J Cardiovasc Pharmacol** 1989;14 Suppl 9:S38–48 (92 ref.)

The emerging role of ACE inhibitors in the treatment of cardiovascular disease. Zannad F. **J Cardiovasc Pharmacol** 1990;15 Suppl 2:S1–5 (44 ref.)

Betaxolol: a new long-acting beta 1-selective adrenergic blocker. Frishman WH, et al. **J Clin Pharmacol** 1990 Aug; 30(8):686–92

Risk factor interactions for coronary heart disease. Mordasini RC. **J Hum Hypertens** 1989 Dec;3 Suppl 2:9–11; discussion 11–2

Effect of urapidil on the performance of ischaemic myocardium in anaesthetized dogs. Schad H, et al. **J Hypertens Suppl** 1989 Dec;7(6):S324–5

Direct diabetogenic effect of diltiazem? Iversen E, et al. **J Intern Med** 1990 Apr;227(4):285–6

Caffeine reduces dipyridamole-induced myocardial ischemia. Smits P, et al. **J Nucl Med** 1989 Oct;30(10):1723–6

Effects of highly concentrated omega-3 polyunsaturated fatty acids and acetylsalicylic acid, alone and combined, on bleeding time and serum lipid profile. Eritsland J, et al. **J Oslo City Hosp** 1989 Aug–Sep;39(8–9):97–101

Anti-ischemic effects of the potassium channel activators pinacidil and cromakalim and the reversal of these effects with the potassium channel blocker glyburide. Grover GJ, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):98–104

Anti-ischemic and vasorelaxant effects of the new benzazepine calcium channel blocker SQ 31,765. Grover GJ, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1020–5

Novel cardioprotective effects of TYB–3823 on ischemic damage in the working hearts of rats: comparison with lidocaine. Ohmura T, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):696–701

Observations on the treatment of coronary heart disease by kuo guan qu yu ling. Guan M, et al. **J Tradit Chin Med** 1990 Mar;10(1):49–53

Clinical and experimental studies of coronary heart disease treated with yi-qi huo-xue injection. Liao JZ, et al. **J Tradit Chin Med** 1989 Sep;9(3):193–8

Effects of propranolol on coronary vasculature and cardiac performance in dogs with fixed and dynamic coronary stenosis. Kashiki M, et al. **Jpn Heart J** 1989 Nov; 30(6):853–61

Beneficial effect of nipradilol (K–351) on acute myocardial ischemia. Study of the relationship between regional myocardial blood flow and energy metabolism [published erratum appears in Jpn J Pharmacol 1990 Apr;52(4):657] Okamoto Y, et al. **Jpn J Pharmacol** 1990 Feb;52(2):371–7

Coronary thrombolysis and aging. Vine DL. **Kans Med** 1990 Feb;91(2):47–8

Xamoterol and the failing heart [letter; comment] [see comments] Böhm M, et al. **Lancet** 1989 Nov 18; 2(8673):1213–4 Comment on: Lancet 1989 Aug 5;2(8658):302–5. Comment in: Lancet 1990 Jan 13;335(8681):117–8.

Long-term cardiorespiratory effects of amelioration of renal anaemia by erythropoietin [published erratum appears in Lancet 1990 Mar 10;335(8689):614] Macdougall IC, et al. **Lancet** 1990 Mar 3;335(8688):489–93

Urokinase in thrombotic coronary occlusion [letter] [published erratum appears in Med J Aust 1990 Feb 19;152(4):224] O'Rourke M. **Med J Aust** 1989 Dec 4–18; 151(11–12):726

Prostaglandins in the management of cardiac and skeletal muscle ischemia. Belkin M, et al. **Microcirc Endothelium Lymphatics** 1989 Jun–Oct; 5(3–5):335–49 (27 ref.)

Beneficial effect of magnesium on the isolated perfused rat heart during reperfusion after ischaemia: comparison between pre-ischaemic and post-ischaemic administration of magnesium. Hara A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jul; 342(1):100–6

Celiprolol, a compound which attenuates myocardial acidosis and improves regional segmental function following ischemia in dogs: a comparison with propranolol. Barrett JA, et al. **Pharmacology** 1989;39(1):1–10

Effect of alprazolam on ischemia and reperfusion-induced ventricular arrhythmias in the isolated perfused rat heart. Kingma ML, et al. **Pharmacology** 1989;39(2):129–36

Therapeutic aspects of hyperlipidaemia in diabetes. Durrington PN, et al. **Postgrad Med J** 1989;65 Suppl 1:S33–41 (79 ref.)

Thromboxane receptor blockade with SQ 30,741 improves post-ischemic myocardial function in anesthetized dogs. Grover GJ. **Proc Soc Exp Biol Med** 1989 Oct;192(1):56–60

Effects of taprostene, a chemically stable prostacyclin analogue, in patients with ischaemic peripheral vascular disease: a placebo controlled double-blind trial. Virgolini I, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Oct; 38(1):31–5

Rationale for use of vasopressors in treatment of coronary air embolism. Goldstone J, et al. **Surg Forum** 1978;29:237–9

Nitroprusside-epinephrine therapy in acute myocardial ischemia. Pass HI, et al. **Surg Forum** 1978;29:310–2

Review of human phase III. Study of Nitromint spray. Szegö J. **Ther Hung** 1989;37(3):165–7

Leukotriene-receptor antagonist FPL–55712 and t-PA-induced thrombolysis in canine coronary thrombosis. Mehta JL, et al. **Thromb Res** 1990 Apr 1;58(1):13–21

New anti-ischaemic drugs: cytoprotective action with no primary haemodynamic effects. Boddeke E, et al. **Trends Pharmacol Sci** 1989 Oct;10(10):397–400 (38 ref.)

Coronary vasodilation with nitrocompounds—is there a maximum? Jost S, et al. **Z Kardiol** 1989;78 Suppl 2:38–40; discussion 64–7

Correlation between isosorbide dinitrate plasma levels and coronary vasodilation after chewing capsules. Jost S, et al. **Z Kardiol** 1989;78 Suppl 2:106–8; discussion 115–7

Effects of carvedilol in patients with impaired left ventricular function due to ischaemic heart disease. Lahiri A, et al. **Z Kardiol** 1989;78 Suppl 3:21–7

Konkurrenz zwischen endothelabhängiger und Nitroglygerin-induzierter koronarer Vasodilatation [Competition between endothelium-dependent and nitroglycerin-induced coronary vasodilation] Rafflenbeul W, et al. **Z Kardiol** 1989;78 Suppl 2:45–7; discussion 64–7

[Outpatient polyclinic observations on senzit in the treatment of ischemic heart disease] Kokutsov A. **Vutr Boles** 1990; 29(1):35–8 (Eng. Abstr.) (Bul)

[Clinical characteristics of silent myocardial ischemia and the effect of nifedipine treatment] Huang L, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec;28(12):717–9, 767 (Eng. Abstr.) (Chi)

[How important is dipyridamole in patients with ischemic heart disease?] Spácil J. **Cas Lek Cesk** 1990 May 4; 129(18):570–1 (Eng. Abstr.) (Cze)

[Comparison of the effects of propofol and brietal on cardiac performance in coronary disease. Gamma-angioscintigraphy] Lepage JY, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R18 (Fre)

[Arrhythmogenic effect of ajmaline on the atrial level] Brembilla-Perrot B, et al. **Arch Mal Coeur** 1989 Dec; 82(12):1983–90 (31 ref.) (Eng. Abstr.) (Fre)

[Absence of an anti-ischemic effect of the peripheral benzodiazepine receptor antagonist PK 11195. Study by atrial stimulation in man] Drobinski G, et al. **Therapie** 1989 Jul–Aug;44(4):263–7 (Eng. Abstr.) (Fre)

[Anti-ischemic action of the transdermally applied beta-receptor blocker, mepindolol in patients with stable angina pectoris] Bonelli J, et al. **Arzneimittelforschung** 1989 Nov;39(11A):1515–7 (Eng. Abstr.) (Ger)

[Nitrate therapy for ischemic heart disease and cardiac insufficiency] Bertel O, et al. **Dtsch Med Wochenschr** 1989 Nov 10;114(45):1749–53 (16 ref.) (Ger)

[Antihypertensive treatment of silent myocardial ischemia in hypertensives without coronary heart disease] Nunberger D, et al. **Dtsch Med Wochenschr** 1990 Jun 22;115(25):969–73 (Eng. Abstr.) (Ger)

[Cardioprotection with drugs. 1: Coronary heart disease] Michel D. **Fortschr Med** 1990 Jan 30;108(3):40–4 (50 ref.) (Eng. Abstr.) (Ger)

[Pharmacology of molsidomine and its active metabolites] Böhme E. **Med Klin** 1990 Feb;85 Suppl 1:7–10 (0 ref.) (Ger)

[Treatment of myocardial ischemia with molsidomine] Dirschinger J, et al. **Med Klin** 1990 Mar 15;85(3):141–4 (23 ref.) (Ger)

[Acute effects of the angiotensin converting enzyme inhibitor ramipril in patients with coronary heart disease] Unterberg C, et al. **Med Klin** 1990 Feb 15;85(2):78–81 (Eng. Abstr.) (Ger)

[New specialty drugs registered in Austria. Concor] Graffius D. **Wien Klin Wochenschr** 1990 Mar 16;102(6):180–4 (Ger)

[How do beta receptor blockers modify physical performance and metabolism?] Kindermann W. **Wien Med Wochenschr** 1990 Apr 15;140(6–7):170–6 (20 ref.) (Eng. Abstr.) (Ger)

[Specific and nonspecific effects of beta receptor blockers: stereoselectively different properties exemplified by (R)- and (S)-propranolol] Stoschitzky K, et al. **Wien Med Wochenschr** 1990 Apr 15;140(6–7):156–62 (17 ref.) (Eng. Abstr.) (Ger)

[Nitrate therapy. Status in 1989] **Z Kardiol** 1989;78 Suppl 2:1–192 (Ger)

[Long-term effect of various nitrates in ischemic heart disease and latent heart failure] Assmann I, et al. **Z Kardiol** 1989; 78 Suppl 2:68–71; discussion 115–7 (Eng. Abstr.) (Ger)

[Effectiveness of retard gallopamil in patients with stress-induced ST-segment depression and silent myocardial ischemias] Barbato G, et al. **Z Kardiol** 1989;78 Suppl 5:98–102 (Eng. Abstr.) (Ger)

[Combination therapy with slow release isosorbide nitrate and diltiazem in silent myocardial ischemia] Brisse B, et al. **Z Kardiol** 1989;78 Suppl 2:175–8; discussion 188–9 (Eng. Abstr.) (Ger)

[Hemodynamic and humoral changes following intravenous administration of xamoterol in patients with heart failure and coronary heart disease] Erlemeier HH, et al. **Z Kardiol** 1990 Feb;79(2):126–33 (Eng. Abstr.) (Ger)

[Hemodynamic and medicamentous modification of stimulated atrial natriuretic factor secretion] Haufe MC, et al. **Z Kardiol** 1989 Aug;78(8):532–7 (Eng. Abstr.) (Ger)

[Negative inotropic effect of flecainide on the post-ischemic heart with limited contractile function] Hoffmeister HM, et al. **Z Kardiol** 1990 Mar;79(3):189–92 (Eng. Abstr.) (Ger)

[Dose-response relation of gallopamil in comparison with nifedipine, diltiazem and tiapamil in patients with coronary heart disease] Hopf R, et al. **Z Kardiol** 1989;78 Suppl 5:69–76 (Eng. Abstr.) (Ger)

[Lack of tolerance development in interval therapy with 50 mg isosorbide-5-nitrate retard (Elantan long)] Jansen W, et al. **Z Kardiol** 1989;78 Suppl 2:72–8; discussion 115–7 (Eng. Abstr.) (Ger)

[Electrophysiologic effects of the calcium antagonist isradipine, a double-blind placebo controlled study] Kühlkamp V, et al. **Z Kardiol** 1990 Jun;79(6):436–40 (Eng. Abstr.) (Ger)

[The mechanism of action of nitrates, 1988 status] Lichtlen PR. **Z Kardiol** 1989;78 Suppl 2:3–10; discussion 64–7 (77 ref.) (Eng. Abstr.) (Ger)

[Therapeutic coronary effectiveness of retard gallopamil following repeated administration in comparison with placebo] Loskot F, et al. **Z Kardiol** 1989;78 Suppl 5:89–93 (Eng. Abstr.) (Ger)

[The acute hemodynamic effects of the new vasodilating beta

blocker carvedilol in comparison with combined administration of nifedipine and propranolol in patients with coronary heart disease] Mauser M, et al. **Z Kardiol** 1989 Nov;78(11):726–31 (Eng. Abstr.) (Ger)

[The effect of urapidil and sodium nitroprusside on intrapulmonary right–left shunt and arterial oxygenation in the treatment of hypertension following coronary surgery] Möllhoff T, et al. **Z Kardiol** 1989 Nov;78(11):732–7 (Eng. Abstr.) (Ger)

[Differential therapy of myocardial ischemia in females] Neumann E, et al. **Z Kardiol** 1989;78 Suppl 2:109–11; discussion 115–7 (Eng. Abstr.) (Ger)

[Control of the effectiveness of nitrate therapy with long–term ECG based on spontaneous ST segment changes] Osterspey A, et al. **Z Kardiol** 1989;78 Suppl 2:155–8; discussion 159 (Eng. Abstr.) (Ger)

[Effect of pimobendan on peripheral hemodynamics] Peters P, et al. **Z Kardiol** 1989 Aug;78(8):538–44 (Eng. Abstr.) (Ger)

[Effect of calcium antagonists and beta receptor blockers on coronary vessel diameter] Rafflenbeul W, et al. **Z Kardiol** 1989;78 Suppl 5:16–9 (Eng. Abstr.) (Ger)

[Exercise capacity of coronary heart disease patients in long–term follow–up with gallopamil in comparison with premedication with verapamil] Reiterer W. **Z Kardiol** 1989; 78 Suppl 5:63–8 (Eng. Abstr.) (Ger)

[Acute and subchronic effect of a patch with discontinuous nitroglycerin liberation] Schirnick C, et al. **Z Kardiol** 1989; 78 Suppl 2:79–82; discussion 115–7 (Eng. Abstr.) (Ger)

[Long–term effect of organic nitrates in angina pectoris: dependence on the form of administration and mode of stress] Schneider W, et al. **Z Kardiol** 1989;78 Suppl 2:83–7; discussion 115–7 (Eng. Abstr.) (Ger)

[Combination of anti–angina drugs] Silber S. **Z Kardiol** 1989; 78 Suppl 2:160–74; discussion 188–9 (160 ref.) (Eng. Abstr.) (Ger)

[Effect of 75 mg retard gallopamil on stress–induced myocardial ischemia] Sinn R, et al. **Z Kardiol** 1989;78 Suppl 5:83–8 (Eng. Abstr.) (Ger)

[Treatment of stress–induced and spontaneous myocardial ischemia in coronary disease patients with slow–release gallopamil—preliminary results of an open study] Steinbeck C, et al. **Z Kardiol** 1989;78 Suppl 5:103–7 (Eng. Abstr.) (Ger)

[The anti–ischemic effect of isosorbide dinitrate alone and in combination with gallopamil and propranolol] Sthler–Klich HM, et al. **Z Kardiol** 1989;78 Suppl 2:179–82; discussion 188–9 (Eng. Abstr.) (Ger)

[Treatment of myocardial and coronary effects of arterial hypertension] Strauer BE, et al. **Z Kardiol** 1989;78 Suppl 7:231–8 (56 ref.) (Eng. Abstr.) (Ger)

[Effect of glycerol trinitrate on R–amplitude in patients with chronic ischemic heart disease] Teichmann W. **Z Kardiol** 1989;78 Suppl 2:112–4; discussion 115–7 (Eng. Abstr.) (Ger)

[Hemodynamic study of the development of tolerance in intravenous nitrate therapy] Unverdorben M, et al. **Z Kardiol** 1989;78 Suppl 2:88–94; discussion 115–7 (Eng. Abstr.) (Ger)

[Combination therapy with isosorbide dinitrate and verapamil in patients with coronary heart disease and hypertension: effect on blood pressure, ischemia and left ventricular function] Vogler AC, et al. **Z Kardiol** 1989;78 Suppl 2:183–7; discussion 188–9 (Eng. Abstr.) (Ger)

[Randomized comparison between gallopamil and diltiazem in angiography verified coronary heart disease] Zenker GD, et al. **Z Kardiol** 1989;78 Suppl 5:94–7 (Eng. Abstr.) (Ger)

[Antithrombotic therapy in ischemic heart disease] Lengyel M. **Orv Hetil** 1989 Dec 3;130(49):2643–4 (Hun)

[Acute effects of propionyl–L–carnitine on anomalies of parietal kinetics of the left ventricle induced by atrial pacing in patients with ischemic heart disease. A bidimensional echocardiographic study] Ricci A, et al. **Cardiologia** 1989 Jul;34(7):651–5 (Eng. Abstr.) (Ita)

[Increase in tolerance to physical effort in patients with X syndrome after acute administration of aminophylline] Emdin M, et al. **Medicina (Firenze)** 1989 Apr–Jun; 9(2):173–5 (Eng. Abstr.) (Ita)

[Improved cardiac performance with fructose–1,6–diphosphate in patients with ischemic heart disease] Lureti FG, et al. **Riv Eur Sci Med Farmacol** 1988 Dec;10(6):479–85 (Eng. Abstr.) (Ita)

[Effects of fructose–1,6–diphosphate in patients with chronic ischemic heart disease. Echocardiographic study] Pasotti C, et al. **Riv Eur Sci Med Farmacol** 1989 Aug;11(4):315–20 (Eng. Abstr.) (Ita)

[Effects of dichloroacetate in the ischemic heart. Analysis of hemodynamics, myocardial energy metabolism and myocardial pH] Mizushima M. **Hokkaido Igaku Zasshi** 1990 May;65(3):298–310 (Eng. Abstr.) (Jpn)

[Effects of betaxolol, a cardioselective beta–adrenoceptor antagonist, on ischemic myocardial energy and carbohydrate metabolism in dogs] Abe Y, et al. **Nippon Yakurigaku Zasshi** 1990 Jun;95(6):319–25 (Eng. Abstr.) (Jpn)

[Transdermal use of nitroglycerin] Kawecka–Jaszcz K, et al. **Folia Med Cracov** 1989;30(1–2):13–21 (28 ref.) (Eng. Abstr.) (Pol)

[Effect of isosorbide dinitrate on neutrophil migration in vivo] Wysocki H, et al. **Kardiol Pol** 1989;32(5):255–8 (Eng. Abstr.) (Pol)

[Clinical pharmacology of nitroglycerin for controlled transdermal administration] Rewerski W, et al. **Pol Arch Med Wewn** 1988 Aug–Sep;80(2–3):151–5 (Pol)

[Effect of verapamil on blood viscosity in ischemic heart disease] Zochowski RJ, et al. **Pol Arch Med Wewn** 1987 Sep;78(3):154–65 (Eng. Abstr.) (Pol)

[Palpitin—an anti–arrhythmic drug in ischemic heart disease] Kuch J, et al. **Wiad Lek** 1990 Jan 1–15;43(1–2):23–7 (Eng. Abstr.) (Pol)

[Cordipine in the treatment of patients with exacerbated coronary disease] Musiał W, et al. **Wiad Lek** 1989 Feb 15; 42(4):205–9 (Eng. Abstr.) (Pol)

[Treatment of chronic coronary insufficiency] da Luz PL, et al. **AMB Rev Assoc Med Bras** 1989 Jul–Sep;35(4):137–43 (62 ref.) (Por)

[Role of antiplatelet agents in the treatment of ischemic cardiopathy] Bonhorst D. **Rev Port Cardiol** 1989 Apr; 8(4):261–4 (33 ref.) (Eng. Abstr.) (Por)

[The effects of nitroglycerin administered intravenously in acute myocardial ischemia] Câmpeanu A, et al. **Rev Med Interna [Med Interna]** 1989 Jan–Feb;41(1):37–48 (Eng. Abstr.) (Rum)

[Comparative assessment of the effect of nitroglycerin, sodium nitroprusside and isoket on hemodynamics in patients with ischemic heart disease] Buniatian AA, et al. **Anesteziol Reanimatol** 1989 May–Jun;(3):6–11 (Eng. Abstr.) (Rus)

[The effectiveness of the hypolipemic preparation lovastatin in patients with ischemic heart disease and hyperlipoproteinemia] Iurenev AP, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):71–4 (Eng. Abstr.) (Rus)

[Nifedipine and verapamil in the treatment of ischemic heart disease and hypertension] Metelitsa VI, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):113–8 (Rus)

[The use of transesophageal electrical stimulation of the heart in acute tests for evaluating the efficacy of korinfar in patients with ischemic heart disease] Mironova Ilu. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):100 (Rus)

[The effect of nitrous oxide on myocardial work and blood supply in IHD patients] Vasil'ev AV, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):102–3 (Rus)

[The effect of bonnecor on cardiac hemodynamics, blood supply and function in experimental myocardial ischemia] Chichkanov GG, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):38–40 (Eng. Abstr.) (Rus)

[The Ca2+ reactivity and the subunit composition of myocardial actomyosin during the pyromecaine and pyrroxan treatment of experimental ischemia] Kalfadzhian MA, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):27–30 (Eng. Abstr.) (Rus)

[The effect of dopamine on the systemic hemodynamic indices, on the blood supply of an ischemic focus and on the plasma enzyme activity in dogs with acute coronary occlusion] Katkov EV, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):19–23 (Eng. Abstr.) (Rus)

[A comparative study of the effect of nimodipine and flunarizine on the intact and ischemic myocardium] Kazanova GV, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):13–5 (Eng. Abstr.) (Rus)

[Role of the collateral coronary circulation in the mechanism of action of verapamil and diltiazem on the ischemic myocardium] Kirsanova GIu, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):33–7 (Eng. Abstr.) (Rus)

[The protective action on the myocardium of antihypoxants in acute occlusion and subsequent reperfusion of the coronary artery] Lomtadze DM, et al. **Farmakol Toksikol** 1990 Mar–Apr;53(2):31–4 (Eng. Abstr.) (Rus)

[Clinical pharmacology of nitrates] Metelitsa VI. **Farmakol Toksikol** 1989 May–Jun;52(3):110–5 (Rus)

[The cardioprotective action of carnitine and its structural analog 3–(2,2,2–trimethylhydrazine)propionate on cardiac energy metabolism in experimental occlusion of the coronary artery in rats] Ratunova TM, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):24–7 (Eng. Abstr.) (Rus)

[The effect of adrenergic agents on the level of extracellular potassium normally and in myocardial ischemia (infarct)] Sysoliatina NA. **Farmakol Toksikol** 1990 Mar–Apr; 53(2):75–80 (31 ref.) (Eng. Abstr.) (Rus)

[Pharmacologic possibility of limiting the energy–dependent accumulation of calcium by mitochondria of the ischemic myocardium] Zamostianova GB, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):27–9 (Eng. Abstr.) (Rus)

[Comparison of antianginal effects of diltiazem and metoprolol in patients with ischemic heart disease with different clinical forms of angina pectoris] Guliev AB, et al. **Kardiologiia** 1990 May;30(5):18–24 (Eng. Abstr.) (Rus)

[The effect of the 5–lipoxygenase inhibitor quercetin on the functional and morphologic manifestations of myocardial lesions in ischemia and reperfusion of the heart] Kolchin IuN, et al. **Kardiologiia** 1990 Mar;30(3):72–5 (Eng. Abstr.) (Rus)

[Effect of diltiazem on the functional activity of erythrocytes and thrombocytes in patients with ischemic heart disease] Razumov VB, et al. **Kardiologiia** 1989 Oct;29(10):54–6 (Eng. Abstr.) (Rus)

[Platelet aggregation inhibitors in the prevention of myocardial infarction: the results of prospective studies] Shalaev SV. **Kardiologiia** 1989 Sep;29(9):116–20 (52 ref.) (Rus)

[Effects of ubinon–9, a synthetic antioxidant, on intensity of lipid peroxidation in blood platelets and plasma of patients with ischemic heart disease] Shevchenko IA, et al. **Kardiologiia** 1989 Nov;29(11):91–5 (Eng. Abstr.) (Rus)

[Effect of the intravenous administration of finoptin on coronary venous blood flow in patients with ischemic heart disease] Uchalkina LV, et al. **Kardiologiia** 1990 Feb; 30(2):24–9 (Eng. Abstr.) (Rus)

[Effect of isoptin on catecholamine levels in arterial and coronary venous blood during an attack of myocardial ischemia] Vakhliaev VD, et al. **Kardiologiia** 1989 Jul; 29(7):67–70 (Eng. Abstr.) (Rus)

[Chronosensitivity to cardiac glycosides in patients with circulatory insufficiency in relation to the parameters of central and peripheral hemodynamics] Zaslavskaia RM, et al. **Klin Med (Mosk)** 1990 Apr;68(4):42–6 (Rus)

[Mechanisms of verapamil prevention of disorders of cardiac contractile function during ischemia and reperfusion] Bratus' VV, et al. **Patol Fiziol Eksp Ter** 1989 Sep–Oct; (5):26–9 (Eng. Abstr.) (Rus)

[The cardioprotective effect of a new Soviet synthetic analog of the endogenous opioids in stress due to total myocardial ischemia and its mechanisms] Dvortsin GF. **Patol Fiziol Eksp Ter** 1990 Mar–Apr;(2):13–6 (Eng. Abstr.) (Rus)

[Antifibrillatory effect of the calcium antagonist foridon in acute myocardial ischemia in conscious rabbits] Glukhovtsev EV, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):46–8 (Eng. Abstr.) (Rus)

[Effects of nitroglycerin and corinfar on the diastolic function of the left ventricle in ischemic heart disease] Aladashvili AV, et al. **Sov Med** 1990;(6):68–72 (Rus)

[Use of bonnecor in ischemic heart disease] Gorshkov VA, et al. **Sov Med** 1990;(6):72–4 (Rus)

[Effectiveness of tobanum and visken in ischemic heart disease with extrasystole] Korkushko OV, et al. **Sov Med** 1989;(12):66–8 (Rus)

[Ambulatory treatment of chronic cardiac insufficiency with prolonged administration of nitrates] Kots IaI, et al. **Sov Med** 1989;(8):64–6 (Rus)

[Nitroglycerin test in the nitrong treatment of patients with ischemic heart disease and chronic obstructive bronchitis] Lazebnik LB, et al. **Sov Med** 1989;(10):119–20 (Rus)

[Evaluation of the effectiveness of Nitro–Mac retard forte in ischemic heart disease] Zamotaev IP, et al. **Sov Med** 1989;(12):44–6 (Rus)

[Morphofunctional analysis of the efficacy of verapamil in experimental ischemia] Bratus' VV, et al. **Vrach Delo** 1989 Jul;(7):69–72 (Eng. Abstr.) (Rus)

[The effect of molsidomine on the conjunctival microcirculation in patients with ischemic heart disease] Brovko EA, et al. **Vrach Delo** 1989 Nov;(11):49–51 (Eng. Abstr.) (Rus)

[The use of propranolol and verapamil in patients with ischemic heart disease] Chizh VD. **Vrach Delo** 1990 Feb; (2):15–8 (Rus)

[Fenigidin in the treatment of patients with chronic cholecystitis in combination with chronic ischemic heart disease] Kushnir VE, et al. **Vrach Delo** 1990 May;(5):21–3 (Eng. Abstr.) (Rus)

[The effect of propranolol on the apoprotein spectrum of the blood plasma in patients with ischemic heart disease] Mikhin VP, et al. **Vrach Delo** 1990 Feb;(2):24–6 (Eng. Abstr.) (Rus)

[Treatment of patients with ischemic heart disease in the initial stage of heart failure using strophanthin electrophoresis] Rozdil'skaia ON, et al. **Vrach Delo** 1990 Mar;(3):52–5 (Eng. Abstr.) (Rus)

[More and more complicated combination therapy of ischemic heart disease] Erhardt L, et al. **Lakartidningen** 1989 Dec 27;86(52):4595–7 (Swe)

ECONOMICS

The cost and benefits of coronary heart disease risk factor reduction. Proceedings of a symposium. Siena, Italy, June 10–11, 1989. **Am Heart J** 1990 Mar;119(3 Pt 2):711–76

Cost–effectiveness perspectives in coronary heart disease. Goldman L. **Am Heart J** 1990 Mar;119(3 Pt 2):733–9; discussion 739–40 (25 ref.)

Overview: economic evaluation and coronary heart disease. Mancia G. **Am Heart J** 1990 Mar;119(3 Pt 2):775–6

Costs and benefits of risk factor reduction for coronary heart disease: insights from screening and treatment of serum cholesterol. Stason WB. **Am Heart J** 1990 Mar;119(3 Pt 2):718–24; discussion 724 (16 ref.)

Clinical benefits and cost–effectiveness of lowering serum cholesterol levels: the case of simvastatin and cholestyramine in The Netherlands. Martens LL, et al. **Am J Cardiol** 1990 Mar 20;65(12):27F–32F

Medical costs of coronary artery disease in the United States. Wittels EH, et al. **Am J Cardiol** 1990 Feb 15;65(7):432–40

The Ottawa Heart Institute: it's good, but can we afford it? [letter] **Can Med Assoc J** 1990 Sep 1;143(5):363–5

20th Bethesda Conference: Insurability and employability of the patient with ischemic heart disease. October 3–4, 1988, Bethsda, Maryland. **J Am Coll Cardiol** 1989 Oct; 14(4):1003–44

Committee report on economic, administrative and legal factors influencing the insurability and employability of patients with ischemic heart disease. Guillette W, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1010–5

Task Force II: Determination of occupational working capacity in patients with ischemic heart disease. Haskell WL, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1025–34

ENZYMOLOGY

Factors affecting the reactivation of the mitochondrial adenosine 5'-triphosphatase and the release of ATPase inhibitor protein during and following the reenergization of mitochondria from ischemic cardiac muscle. Rouslin W, et al. **Arch Biochem Biophys** 1989 Dec;275(2):385–94

Regulation of the mitochondrial adenosine 5'-triphosphatase in situ during ischemia and in vitro in intact and sonicated mitochondria from slow and fast heart-rate hearts. Rouslin W, et al. **Arch Biochem Biophys** 1990 Jul;280(1):103–11

Properties of phosphatidate phosphohydrolase and diacylglycerol acyltransferase activities in the isolated rat heart. Effect of glucagon, ischaemia and diabetes. Schoonderwoerd K, et al. **Biochem J** 1990 Jun 1; 268(2):487–92

Prevention of myocardial enzyme release by ranolazine in a primate model of ischaemia with reperfusion. Allely MC, et al. **Br J Pharmacol** 1990 Jan;99(1):5–6

Cytochemical evidence of NADH-oxidase activity in the isolated working rabbit heart subjected to normothermic global ischaemia. Vandeplassche G, et al. **Histochem J** 1990 Jan;22(1):11–7

[Changes in serum CK and GOT concentration as a noninvasive marker of restoration of infarct-related coronary artery] Ikushima I, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1441–50 **(Jpn)**

[MB isoenzyme of myocardial creatino-kinase: activity curves in the blood, after ischemic cardiopathy surgery] Lousada N, et al. **Rev Port Cardiol** 1989 Nov;8(11):755–9 (Eng. Abstr.) **(Por)**

[Na,K-ATPase activity in the myocardial sarcolemma in ischemia] Kim EA, et al. **Ukr Biokhim Zh** 1989 Jul–Aug; 61(4):60–5 (Eng. Abstr.) **(Rus)**

[Study of the properties of leucyl-tRNA synthetase from porcine myocardium in a normal state and in experimental ischemia] Stapulenis RR, et al. **Vopr Med Khim** 1989 Jul–Aug;35(4):56–60 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Components of the type-A behavior pattern and their relevance for CHD-risk factors: results from the GDR-MONICA project. Weiss M. **Act Nerv Super (Praha)** 1990 Mar;32(1):38–40

Dietary fatty acids and antioxidant vitamins and the risk of coronary heart disease: the Scottish experience. Riemersma RA. **Acta Cardiol** 1989;44(6):482–3

Stratifying the patient at risk from coronary disease: new insights from the Framingham Heart Study. Levy D, et al. **Am Heart J** 1990 Mar;119(3 Pt 2):712–7; discussion 717

Prevalence and patterns of silent myocardial ischemia during daily life in stable angina patients receiving conventional antianginal drug therapy. Deedwania PC, et al. **Am J Cardiol** 1990 May 1;65(16):1090–6

Predictive value for coronary heart disease of baseline high-density and low-density lipoprotein cholesterol among Fredrickson type IIa subjects in the Helsinki Heart Study. Manninen V, et al. **Am J Cardiol** 1990 Sep 4; 66(6):24A–27A

Comparison of three Bayesian methods to estimate posttest probability in patients undergoing exercise stress testing. Morise AP, et al. **Am J Cardiol** 1989 Nov 15;64(18):1117–22

Frequency and significance of early postoperative silent myocardial ischemia in patients having peripheral vascular surgery. Ouyang P, et al. **Am J Cardiol** 1989 Nov 15; 64(18):1113–6

Response bias in the Honolulu Heart Program. Benfante R, et al. **Am J Epidemiol** 1989 Dec;130(6):1088–100

Sex differences in time from self-reported heart trouble to heart disease death in the Alameda County Study. Significance of time dependence of risk variable effects. Cohn BA, et al. **Am J Epidemiol** 1990 Mar;131(3):434–42

Total and HDL cholesterol and their correlates in elderly men in Finland, Italy, and The Netherlands. Kromhout D, et al. **Am J Epidemiol** 1990 May;131(5):855–63

Coronary heart disease and hypertension in Taiwan aborigines. Tsai HC, et al. **Am J Epidemiol** 1967 Jul; 86(1):253–63

Epidemiology of some peripheral arterial findings in diabetic men and women: experiences from the Framingham Study. Abbott RD, et al. **Am J Med** 1990 Apr;88(4):376–81

Risk of coronary heart disease in subjects with chest discomfort: the Framingham Heart Study. Murabito JM, et al. **Am J Med** 1990 Sep;89(3):297–302

Overview of clinical trials of cholesterol lowering in relationship to epidemiologic studies. Tyroler HA. **Am J Med** 1989 Oct 16;87(4A):14S–19S (28 ref.)

The prediction of midlife coronary heart disease and hypertension in young adults: the Johns Hopkins multiple risk equations. Pearson TA, et al. **Am J Prev Med** 1990; 6(2 Suppl):23–8

Association between risk factors for coronary heart disease in schoolboys and adult mortality rates in the same localities. Freeman W, et al. **Arch Dis Child** 1990 Jan; 65(1):78–83

Lifetime risks of hip, Colles', or vertebral fracture and coronary heart disease among white postmenopausal women. Cummings SR, et al. **Arch Intern Med** 1989 Nov; 149(11):2445–8

Arterial hypertension and risk factors of CHD in native and newcoming populations of some regions of Siberia and the Far North. Nikitin Yu, et al. **Arctic Med Res** 1988;47 Suppl 1:469–71

Unlikely association between clinically apparent herpesvirus infection and coronary incidence at older ages. The Framingham Heart Study. Havlik RJ, et al. **Arteriosclerosis** 1989 Nov–Dec;9(6):877–80

Scottish hearts but British habits [see comments] Dargie HJ. **BMJ** 1989 Dec 16;299(6714):1475–6 (32 ref.) Comment in: BMJ 1990 Feb 10;300(6721):398–9.

Impact of cardiovascular risk factors on coronary heart disease and mortality among middle aged diabetic men: a general population study. Rosengren A, et al. **BMJ** 1989 Nov 4;299(6708):1127–31

Exercise in leisure time: coronary attack and death rates. Morris JN, et al. **Br Heart J** 1990 Jun;63(6):325–34

Estimation of coronary risk factors in British schoolchildren: a preliminary report. Armstrong N, et al. **Br J Sports Med** 1990 Mar;24(1):61–6

Coronary artery disease in women. Dustan HP. **Can J Cardiol** 1990 May;6 Suppl B:19B–21B

Coronary heart disease risk factors in women. Corrao JM, et al. **Cardiology** 1990;77 Suppl 2:8–24 (110 ref.)

Restenosis after transluminal coronary angioplasty: a risk factor analysis. Arora RR, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):17–22

Analysis of risk factors for restenosis after PTCA. Rupprecht HJ, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):151–9

Cardiovascular community control programs in Beijing. Wu YK, et al. **Chin Med J [Engl]** 1990 Feb;103(2):89–94 (5 ref.)

Silent ischemia during daily life is an independent predictor of mortality in stable angina [see comments] Deedwania PC, et al. **Circulation** 1990 Mar;81(3):748–56 Comment in: Circulation 1990 Mar;81(3):1136–8.

Incidence and consequences of periprocedural occlusion. The 1985–1986 National Heart, Lung, and Blood Institute Percutaneous Transluminal Coronary Angioplasty Registry [see comments] Detre KM, et al. **Circulation** 1990 Sep; 82(3):739–50 Comment in: Circulation 1990 Sep;82(3):1039–43.

Prevalence of accelerated coronary artery disease in heart transplant survivors. Comparison of cyclosporine and azathioprine regimens. Gao SZ, et al. **Circulation** 1989 Nov; 80(5 Pt 2):III100–5

Trends for coronary heart disease in Japan [letter] Kesteloot H. **Circulation** 1990 Jan;81(1):392

Silent myocardial ischemia in patients with coronary artery disease. Possible links with diastolic left ventricular dysfunction. Mahmarian JJ, et al. **Circulation** 1990 Feb;81(2 Suppl):III33–40 (73 ref.)

Prevalence and clinical significance of silent myocardial ischemia. Parmley WW. **Circulation** 1989 Dec;80(6 Suppl):IV68–73 (82 ref.)

Ambulant myocardial ischemia and its prognostic implications [comment] Pepine CJ. **Circulation** 1990 Mar; 81(3):1136–8 Comment on: Circulation 1990 Mar;81(3):748–56.

Resting electrocardiographic abnormalities suggestive of asymptomatic ischemic heart disease associated with non-insulin-dependent diabetes mellitus in a defined population. Scheidt-Nave C, et al. **Circulation** 1990 Mar; 81(3):899–906

Coronary disease—45 years ago and now. Master AM, et al. **Clin Pharmacol Ther** 1967 Jul–Aug;8(4):603–14 (59 ref.)

Coronary heart disease in high-risk populations: lessons from Finland. Grundy SM, et al. **Eur Heart J** 1990 May; 11(5):462–71 (92 ref.)

Risk factors for development of accelerated coronary artery disease in cardiac transplant recipients. Radovancevic B, et al. **Eur J Cardiothorac Surg** 1990;4(6):309–12; discussion 313

Physical activity and coronary heart disease risk factors during childhood and adolescence. Després JP, et al. **Exerc Sport Sci Rev** 1990;18:243–61 (93 ref.)

Gender and heart disease [editorial] Douglas PS. **Hosp Pract [Off]** 1990 Feb 28;25(2A):8, 11

Prospective investigations of the managing staff in plant of heavy industry with respect to ischemic heart diseases. Knapikowa D, et al. **Int Arch Occup Environ Health** 1990; 62(4):341–2

The decline of ischaemic heart disease mortality in the ARIC study communities. The ARIC Study Investigators. **Int J Epidemiol** 1989;18(3 Suppl 1):S88–98

Menopause-related changes in lipoproteins and some other cardiovascular risk factors. Bonithon-Kopp C, et al. **Int J Epidemiol** 1990 Mar;19(1):42–8

Trends in CHD and risk factors at age 55–64 in the Framingham Study. D'Agostino RB, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S67–72

Trends in CHD in the United States. Higgins M, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S58–66

Trends in coronary heart disease mortality and morbidity in Auckland, New Zealand, 1974–1986. Jackson R, et al. **Int J Epidemiol** 1990 Jun;19(2):279–83

Drop-out and newcomer bias in a community cardiovascular follow-up study. Jooste PL, et al. **Int J Epidemiol** 1990 Jun;19(2):284–9

Exercise time relationship to coronary risk factors in Kuwaiti adult males 1985–1986. al-Muhailan AR, et al. **Int J Epidemiol** 1989 Dec;18(4):818–23

Influences on CHD incidence and case fatality: medical management of risk factors. Pearson TA. **Int J Epidemiol** 1989;18(3 Suppl 1):S217–22 (32 ref.)

The nineteen-year trends in CHD in the Honolulu Heart Program. Reed D, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S82–7

Contribution of risk factor changes to the decline in coronary incidence during the North Karelia project: a within-community analysis. Salonen JT, et al. **Int J Epidemiol** 1989 Sep;18(3):595–601

Educational status and coronary heart disease in Puerto Rico: the Puerto Rico Heart Health Program. Sorlie PD, et al. **Int J Epidemiol** 1990 Mar;19(1):59–65

Diagnosis, measurement and surveillance of coronary events. Tunstall-Pedoe H. **Int J Epidemiol** 1989;18(3 Suppl 1):S169–73

Trends and determinants of ischaemic heart disease mortality in Finland: with special reference to a possible levelling off in the early 1980s. Tuomilehto J, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S109–17

CHD in Sweden: mortality, incidence and risk factors over 20 years in Gothenburg. Wilhelmsen L, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S101–8

The social origin of cardiovascular risk: an investigation in a rural community. Gold MR, et al. **Int J Health Serv** 1990; 20(3):405–16

Vitamin A, vitamin E and selenium status in an aged Finnish male population. Kivelä SL, et al. **Int J Vitam Nutr Res** 1989;59(4):373–80

Role of ambulatory ECG monitoring in estimating cardiac risk in vascular surgery patients. Raby KE, et al. **Isr J Med Sci** 1989 Sep;25(9):516–20

Silent myocardial ischemia during right atrial pacing in patients recovering from acute myocardial infarction. Tzivoni D, et al. **Isr J Med Sci** 1989 Sep;25(9):538–41

Prevalence of and variables associated with silent myocardial ischemia on exercise thallium-201 stress testing. Gasperetti CM, et al. **J Am Coll Cardiol** 1990 Jul;16(1):115–23

Coronary artery disease pattern in the young. Pahlajani DB, et al. **J Assoc Physicians India** 1989 May;37(5):312–4

Epidemiology of coronary heart disease [letter; comment] Yeolekar ME. **J Assoc Physicians India** 1989 Jul; 37(7):479–80 Comment on: J Assoc Physicians India 1988 Dec;36(12):689–93.

Posttransplant obesity and hyperlipidemia: major predictors of severity of coronary arteriopathy in failed human heart allografts. Winters GL, et al. **J Heart Transplant** 1990 Jul–Aug;9(4):364–71

The J-shaped relationship between coronary heart disease and achieved blood pressure level in treated hypertension: further analyses of 12 years of follow-up of treated hypertensives in the Primary Prevention Trial in Gothenburg, Sweden. Samuelsson OG, et al. **J Hypertens** 1990 Jun;8(6):547–55

New views on the relationship between coronary heart disease and hypertension. Ibsen H, et al. **J Intern Med** 1990 Feb;227(2):77–9 (13 ref.)

The frequency distribution of cardiovascular diseases in 13 hospital admitted patients in Korea. Korean Society of Circulation. Bae JH, et al. **J Korean Med Sci** 1987 Sep; 2(3):141–50

A cardiovascular study of shift workers with respect to coronary artery disease risk factor prevalence. Bursey RG. **J Soc Occup Med** 1990 Summer;40(2):65–7

Trend of coronary heart disease and its relationship to risk factors in a Japanese population: a 26-year follow-up, Hiroshima/Nagasaki study. Kodama K, et al. **Jpn Circ J** 1990 Apr;54(4):414–21

Trends for coronary heart disease and its risk factors in Japan: epidemiologic and pathologic studies. Konishi M, et al. **Jpn Circ J** 1990 Apr;54(4):428–35

Prevalence and clinical significance of silent myocardial ischemia in exercise test. Murayama M, et al. **Jpn Circ J** 1989 Nov;53(11):1392–8

Cerebrovascular disease, ischaemic heart disease, and the stress of vehicle travel. Robinson AA. **Med Hypotheses** 1989 Oct;30(2):101–4

Risk factors for coronary heart disease [letter; comment] **Med J Aust** 1990 Mar 19;152(6):331–2 Comment on: Med J Aust 1989 Nov 6;151(9):518, 521–2, 524–5.

Measurement of cost-effectiveness of drug therapy: a review of the treatment of hypertension. Moulds RF. **Med J Aust** 1990 Aug 6;153 Suppl:S4–6

Cigarette smoking and the risk of myocardial infarction, and acute non-infarct coronary events among Malaysian women. Quek DK, et al. **Med J Malaysia** 1989 Sep; 44(3):210–23

A framework for the adaptation of psychological questionnaires for epidemiological use: an example of the Bortner Type A scale. Gallacher JE, et al. **Psychol Med** 1989 Aug;19(3):709–17

Socio-economic status, risk factors and coronary heart disease. The CORIS baseline study. Rossouw JE, et al. **S Afr Med J** 1990 Jul 21;78(2):82–5

Coronary risk factor and lifestyle variation across Scotland: results from the Scottish Heart Health Study.

Tunstall-Pedoe H, et al. **Scott Med J** 1989 Dec; 34(6):556–60

The diffusion of cardiovascular disease in the Norwegian farming community: a combination of morbidity and mortality data. Asse A, et al. **Soc Sci Med** 1989; 29(8):1027–33

On the use of a logistic risk score in predicting risk of coronary heart disease. Chambless LE, et al. **Stat Med** 1990 Apr;9(4):385–96

Application of the Cox model as a predictor of relative risk of coronary heart disease in the Albany Study. Chang HG, et al. **Stat Med** 1990 Mar;9(3):287–92

Health and other characteristics of employed women and homemakers in Tecumseh, 1959–1978. II. Prevalence of respiratory and cardiovascular symptoms and illnesses, mortality rates and physical and physiological measurements. Ebi-Kryston KL, et al. **Women Health** 1990; 16(2):23–39

[The incidence of ischemic heart disease in white South Africans cremated in Pretoria, 1978–1985] Steenekamp JH, et al. **S Afr Med J** 1989 Dec 2;76(11):610–2 (Eng. Abstr.) (Afr)

[The role of the risk factors in ischemic heart disease for the work capacity of persons who have had a myocardial infarct] Bashliev I. **Vutr Boles** 1989;28(6):30–6 (Eng. Abstr.) (Bul)

[Hypertension and angiographically defined coronary heart disease] He Y.
Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1989 Oct; 10(5):282–6 (Eng. Abstr.) (Chi)

[An investigation on the association between incidence of coronary heart disease and stroke and meteorological factors] Wu Y.
Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1990 Apr; 11(2):88–91 (Eng. Abstr.) (Chi)

[Number of coronary bypass operations in The Netherlands and other western countries (letter)] Stalenhoef AF, et al. **Ned Tijdschr Geneeskd** 1989 Nov 11;133(45):2255–6 (Dut)

[Evaluation of coronary risk in arterial surgery] Piquet P, et al. **J Mal Vasc** 1990;15(1):63–6 (Eng. Abstr.) (Fre)

[The European cholesterol concensus conferences. Do coronary heart diseases still play a major role in our society?] Schettler G. **Arzneimittelforschung** 1990 Mar; 40(3A):399–404 (Eng. Abstr.) (Ger)

[The Göttingen Risk, Incidence and Prevalence (GRIPS) study. Recommendations for the prevention of coronary heart disease] Cremer P, et al. **Ther Umsch** 1990 Jun; 47(6):482–91 (Eng. Abstr.) (Ger)

[Family status and coronary heart disease in the female] Wagner U. **Z Gesamte Inn Med** 1989 Sep 15;44(18):533–5 (26 ref.) (Eng. Abstr.) (Ger)

[Research protocol for the epidemiology and clinical aspects of silent ischemic cardiopathy] Fazzini PF, et al.
G Ital Cardiol 1990 Apr;20(4):368–75 (2 ref.) (Ita)

[Ischemic heart disease in Italy: dimensions of the problem] Feruglio GA, et al. **G Ital Cardiol** 1989 Sep;19(9):754–62; discussion 778–86 (Ita)

[Surveillance of coronary and cerebrovascular events. Experience and teachings of the Latin Area of the Monitoring of Cardiovascular Diseases project] Giampaoli S, et al. **G Ital Cardiol** 1990 Mar;20(3):267–71 (Eng. Abstr.) (Ita)

[Fibrinogen, a cardiovascular risk factor] Ferrara E, et al. **Minerva Cardioangiol** 1989 Nov;37(11):473–5 (Eng. Abstr.) (Ita)

[Ischemic coronary artery disease in menopause] Petretta M, et al. **Riv Eur Sci Med Farmacol** 1989 Jun;11(3):211–21 (56 ref.) (Eng. Abstr.) (Ita)

[Discriminant function analysis for evaluating the status of coronary heart disease risk] Tanaka K, et al.
Ann Physiol Anthropol 1990 Jan;9(1):59–65 (Eng. Abstr.) (Jpn)

[Current status of cardiac surgery in the elderly] Furuse A. **J Cardiol Suppl** 1988;19:59–63 (Eng. Abstr.) (Jpn)

[Levels and trends of major risk factors of ischemic heart disease in Japan] Horibe H, et al. **Kokyu To Junkan** 1990 Feb;38(2):109–14 (15 ref.) (Jpn)

[Clinical estimation of coronary risk factors with special reference to coronary arteriographic findings] Amioka H. **Nippon Ronen Igakkai Zasshi** 1990 Mar;27(2):206–13 (Eng. Abstr.) (Jpn)

[Chronic obstructive lung disease and ischemic heart disease] Lewczuk J, et al. **Pneumonol Pol** 1989 Jun;57(6):377–80 (29 ref.) (Pol)

[Incidence of hypertension and ischemic heart disease with temporary disability among workers exposed to vibration] Tsvetkov D, et al. **Gig Tr Prof Zabol** 1990;(1):11–4 (Eng. Abstr.) (Rus)

[Detection of ischemic heart disease in a survey of a male population 40–59 years of age (data of cooperative studies performed in Moscow, Kaunas, Kiev and Kharkov)] Kalinina AM, et al. **Kardiologiia** 1989 Dec;29(12):93–7 (Eng. Abstr.) (Rus)

[Prevalence of ischemic heart disease in Leningrad: findings of cross-sectional and prospective studies] Klimov AN, et al. **Kardiologiia** 1989 Nov;29(11):32–7 (Rus)

[Comparative characteristics of the incidence of ischemic heart disease and its risk factors among men and women aged 20–69 years (epidemiological study)] Konstantinov VV, et al. **Kardiologiia** 1989 Sep;29(9):38–43 (Eng. Abstr.) (Rus)

[Nutrition characteristics and the incidence of dyslipoproteinemia and ischemic heart disease among the population of the Buryat ASSR] Nikitin IuP, et al.
Kardiologiia 1989 Sep;29(9):34–8 (Eng. Abstr.) (Rus)

[Prevalence of risk factors and indicators of mortality among males 40–59 years of age with various forms of ischemic heart disease (data of a 5-year prospective study)] Reklaitene RA, et al. **Kardiologiia** 1989 Aug;29(8):39–42 (Eng. Abstr.) (Rus)

[Initial experiences in the use of the ASKIS automated system for detecting patients with ischemic heart disease. Automated System for Population Health Tracking and Follow-up] Markova EV, et al. **Ter Arkh** 1989;61(9):43–6 (Eng. Abstr.) (Rus)

[The risk factors for ischemic heart disease among flight personnel and the probability of predicting coronary atherosclerosis] Chuntul VV. **Voen Med Zh** 1990 Jan; (1):53–6 (Rus)

[Study of the age dynamics of nutritional indicators and blood lipids in connection with the incidence of ischemic heart disease in the male population of Frunze] Altbaev KA, et al. **Vopr Pitan** 1989 Jul-Aug;(4):24–8 (Eng. Abstr.) (Rus)

[Nutrition and the incidence of ischemic heart disease and risk factor for its occurrence among men 20–59 years of age depending on their ethnic group affiliation] Melmanaliev TS, et al. **Vopr Pitan** 1989 Jul-Aug;(4):28–32 (Eng. Abstr.) (Rus)

[Assessment of an analysis of the connections of nutrition with risk factors for ischemic heart disease in a one-time epidemiologic study] Solodkaia ES, et al. **Vopr Pitan** 1989 Jul-Aug;(4):20–4 (Eng. Abstr.) (Rus)

[The interrelationship of cholelithiasis and ischemic heart disease] Kushnir VE, et al. **Vrach Delo** 1989 Dec;(12):57–8 (Eng. Abstr.) (Rus)

[Prevalence and concurrence of several coronary risk factors in a sample of adolescents at a high school in the community of Madrid] Sánchez-Muniz J, et al.
Rev Clin Esp 1990 Feb;186(3):119–23 (Eng. Abstr.) (Spa)

[Fuenlabrada study: lipid and lipoprotein levels in children and adolescents associated with ischemic cardiopathy prevalence among their relatives] Plaza I, et al.
Rev Esp Cardiol 1990 Apr;43(4):212–8 (Eng. Abstr.) (Spa)

ETHNOLOGY

Disturbances of insulin in British Asian and white men [letter; comment] **BMJ** 1989 Oct 7;299(6704):914–5 Comment on: BMJ 1989 Aug 26;299(6698):537–41.

Low incidence of fatal coronary heart disease in Pima Indians despite high prevalence of non-insulin-dependent diabetes. Nelson RG, et al. **Circulation** 1990 Mar;81(3):987–95

Ethnicity and other characteristics predictive of coronary heart disease in a developing community: principal results of the St James Survey, Trinidad. Miller GJ, et al.
Int J Epidemiol 1989 Dec;18(4):808–17

High density lipoprotein cholesterol concentration as a predictor of coronary heart disease in West Indian men. Miller GJ, et al. **J Epidemiol Community Health** 1990 Jun; 44(2):136–8

ETIOLOGY

Diabetes and coronary risk factors, relative risk for single factors and aggregation of more factors in a general population sample from northern Italy. Ambrosio GB, et al. **Acta Diabetol Lat** 1990 Jan-Mar;27(1):31–9

Nutrition, the child and atherosclerosis. A commentary. Deckelbaum RJ. **Acta Paediatr Scand Suppl** 1990;365:7–12

Exercise-induced silent myocardial ischemia in patients with vasospastic angina. Aoki M, et al. **Am Heart J** 1990 Mar; 119(3 Pt 1):551–6

Acute coronary thrombosis following head trauma in a young man. Bashour TT, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):676–7

Septal ischemia and abnormal septal Q wave response to exercise: a link implicated from percutaneous transluminal coronary angioplasty. Chen CH, et al. **Am Heart J** 1989 Dec;118(6):1327–30

Cardiac failure in coronary heart disease. Cheng TO.
Am Heart J 1990 Aug;120(2):396–412 (81 ref.)

Isolated bilateral coronary ostial stenosis in Takayasu's arteritis. Emi Y, et al. **Am Heart J** 1990 Apr;119(4):962–4

Coronary artery disease and internal mammary artery aneurysms in a young woman: possible sequelae of Kawasaki disease. Ishiwata S, et al. **Am Heart J** 1990 Jul; 120(1):213–7

Exercise-induced silent myocardial ischemia: evaluation by thallium-201 emission computed tomography. Kurata C, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):557–67

Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue-type plasminogen activator. Mügge A, et al. **Am Heart J** 1990 Jun;119(6):1437–9

Acquired coronary artery-left ventricular pseudoaneurysm fistula after myocardial infarction. Lee KM, et al.
Am J Cardiol 1989 Oct 1;64(12):824–5

High-density lipoprotein cholesterol and coronary artery disease: survey of the evidence. Rifkind BM.
Am J Cardiol 1990 Sep 4;66(6):3A–6A (9 ref.)

Vascular effects of calcium antagonists: implications for hypertension and other risk factors for coronary heart disease. van Zwieten PA. **Am J Cardiol** 1989 Nov 7; 64(17):117I–121I (57 ref.)

High-density lipoprotein, low-density lipoprotein and coronary artery disease. Wilson PW. **Am J Cardiol** 1990 Sep 4;66(6):7A–10A (17 ref.)

High intake of sucrose and heart attacks [letter] Yudkin J. **Am J Clin Nutr** 1975 Dec;28(12):1343–4

Re: "Pulmonary function as a predictor of coronary heart disease" [letter] Cook DG, et al. **Am J Epidemiol** 1990 Sep; 132(3):587–8

Re: "Plasma Triglyceride as a Risk Factor for Coronary Heart Disease: the Epidemiologic Evidence and Beyond" [letter; comment] Gordon T. **Am J Epidemiol** 1990 May; 131(5):942 Comment on: Am J Epidemiol 1989 Feb;129(2):249–59.

The paradox of high risk of stroke in populations with low risk of coronary heart disease. Reed DM.
Am J Epidemiol 1990 Apr;131(4):579–88

Coronary heart disease risk assessment. Moran MT, et al.
Am J Prev Med 1989 Nov-Dec;5(6):330–6

Pre-bypass myocardial ischaemia in patients undergoing coronary artery surgery. Davies MJ, et al.
Anaesth Intensive Care 1990 Feb;18(1):53–7

Coronary embolism following mitral valve replacement. Intraoperative diagnosis and successful embolectomy. Attai LA, et al. **Ann Thorac Surg** 1974 Aug;18(2):191–4

Coronary-subclavian steal after coronary artery bypass grafting using the internal mammary artery [letter; comment] Brouwer RM. **Ann Thorac Surg** 1989 Dec; 48(6):887 Comment on: Ann Thorac Surg 1988 Dec;46(6):675–8.

Left ventricular thrombus and systemic emboli complicating the cardiomyopathy of Duchenne's muscular dystrophy. Gaffney JF, et al. **Arch Neurol** 1989 Nov;46(11):1249–52

Clinical and pathologic factors contributing to acute papillary muscle ischemia. Waters BL. **Arch Pathol Lab Med** 1990 Jun;114(6):601–4

Nutrition of native and newcoming population of Chukotka and CHD risk factors. Nikitin Yu, et al.
Arctic Med Res 1988;47 Suppl 1:472–4

Pathophysiology of reverse cholesterol transport. Insights from inherited disorders of lipoprotein metabolism. Reichl D, et al. **Arteriosclerosis** 1989 Nov-Dec;9(6):785–97 (171 ref.)

Polymorphism in the 5'-flanking region of the insulin gene and its potential relation to cardiovascular disease risk: observations in a biracial community. The Bogalusa Heart Study. Amos CI, et al. **Atherosclerosis** 1989 Sep;79(1):51–7

Effects of age and cigarette smoking on serum concentrations of lipids and apolipoproteins in a male military population. Cuesta C, et al. **Atherosclerosis** 1989 Nov;80(1):33–9

Relationship between plasma cholesterol and coronary artery disease in Asians. Hughes LO, et al. **Atherosclerosis** 1990 Jul;83(1):15–20

Free radical mediated injuries after coronary artery occlusion. Röth E, et al. **Basic Res Cardiol** 1989 Jul-Aug; 84(4):388–95

Prevalence of asymptomatic myocardial ischaemia in diabetic subjects. Koistinen MJ. **BMJ** 1990 Jul 14;301(6743):92–5

When does the risk of acute coronary heart disease in ex-smokers fail to that in non-smokers? [letter; comment] Peto R. **Br Heart J** 1990 Jan;63(1):69 Comment on: Br Heart J 1989 Jul;62(1):16–9.

Linoleic acid and coronary heart disease. Oliver MF, et al.
Br J Hosp Med 1989 Oct;42(4):298, 301–2 (23 ref.)

The cholesterol–heart disease hypothesis (critique)—time to change course? Texon M. **Bull N Y Acad Med** 1989 Oct; 65(8):836–41 (32 ref.)

The rationale for controlling dietary lipids in the prevention of coronary heart disease. Segal DL.
Bull Pan Am Health Organ 1990;24(2):197–209 (23 ref.)

Failure to predict intraoperative myocardial ischaemia in patients with coronary artery disease. Smith H, et al.
Can J Anaesth 1989 Sep;36(5):539–44

Coffee, caffeine, cholesterol, cardiologists and confusion [editorial; comment] Beamish RE. **Can J Cardiol** 1990 Apr; 6(3):93–4 Comment on: Can J Cardiol 1990 Apr;6(3):95–8.

Effects of sex steroid hormones on lipoprotein levels in pre- and post menopausal women. Knopp RH.
Can J Cardiol 1990 May;6 Suppl B:31B–35B (18 ref.)

Women, lipoproteins and cardiovascular disease risk. LaRosa JC. **Can J Cardiol** 1990 May;6 Suppl B:23B–29B (30 ref.)

Left ventricular hypertrophy: an independent factor of risk. Frohlich ED. **Cardiovasc Clin** 1990;20(3):85–94 (77 ref.)

Cardiovascular risk factors. Stokes J 3d. **Cardiovasc Clin** 1990;20(3):3–20 (53 ref.)

Acute coronary occlusion after recent coronary angioplasty. Association with exercise and successful treatment with intracoronary thrombolysis. Bedogni F, et al. **Chest** 1990 Aug;98(2):505–7

Atherogenic lipoprotein phenotype. A proposed genetic marker for coronary heart disease risk [see comments] Austin MA, et al. **Circulation** 1990 Aug;82(2):495–506 Comment in: Circulation 1990 Aug;82(2):649–51.

Prediction of acute closure in percutaneous transluminal coronary angioplasty. King SB 3d. **Circulation** 1990 Mar; 81(3 Suppl):IV5–8

Deleterious effects of oxygen radicals in ischemia/reperfusion. Resolved and unresolved issues. Kloner RA, et al. **Circulation** 1989 Nov;80(5):1115–27 (159 ref.)

The cholesterol facts. A summary of the evidence relating dietary fats, serum cholesterol, and coronary heart disease. A joint statement by the American Heart Association and the National Heart, Lung, and Blood Institute. The Task Force on Cholesterol Issues, American Heart Association. LaRosa JC, et al. **Circulation** 1990 May;81(5):1721–33 (54 ref.)

Pathogenetic components of acute ischemic syndromes. Focus on acute ischemic stimuli. Maseri A. **Circulation** 1990 Jan;81(1 Suppl):I1–3; discussion I22–3

Antihypertensive therapy—going to the heart of the matter. Messerli FH. **Circulation** 1990 Mar;81(3):1128–35 (108 ref.)

Platelets, blood flow, and the vessel wall. Mustard JF, et al. **Circulation** 1990 Jan;81(1 Suppl):I24–7; discussion I40–1 (39 ref.)

Coronary artery disease in cardiac transplant patients receiving triple-drug immunosuppressive therapy. Olivari MT, et al. **Circulation** 1989 Nov;80(5 Pt 2):III111–5

Relation between survival and development of coronary artery disease and anti-HLA antibodies after cardiac transplantation. Petrossian GA, et al. **Circulation** 1989 Nov; 80(5 Pt 2):III122–5

Coronary occlusion: cause or consequence of acute myocardial infarction? Baroldi G, et al. **Clin Cardiol** 1990 Jan;13(1):49–54

Individual susceptibility to risk factors and implications for prevention [editorial] Conti CR. **Clin Cardiol** 1990 Jun; 13(6):373–4

Multiple coronary thrombosis in a patient with thrombocytosis. Hamada Y, et al. **Clin Cardiol** 1989 Dec; 12(12):723–4

Traumatic thrombosis of the left main coronary artery and myocardial infarction caused by blunt chest trauma. Unterberg C, et al. **Clin Cardiol** 1989 Nov;12(11):672–4

Diet, lipids, and coronary heart disease. Stone NJ. **Endocrinol Metab Clin North Am** 1990 Jun;19(2):321–44 (138 ref.)

Endothelium-derived relaxing and contracting factors: potential role in coronary artery disease. Lüscher TF. **Eur Heart J** 1989 Sep;10(9):847–57 (91 ref.)

Coronary to bronchial artery anastomosis with bronchial steal syndrome demonstrated by thallium-201 myocardial tomoscintigraphy. Stefas L, et al. **Eur Heart J** 1990 Mar; 11(3):275–9

The influence of rejection episodes on the development of coronary artery disease after heart transplantation. Schütz A, et al. **Eur J Cardiothorac Surg** 1990;4(6):300–7; discussion 308

Risk factors for coronary artery disease: a study comparing hypercholesterolaemia and hypertriglyceridaemia in angiographically characterized patients. Breier C, et al. **Eur J Clin Invest** 1989 Oct;19(5):419–23

Clinical signs of androgen excess as risk factors for coronary artery disease. Wild RA, et al. **Fertil Steril** 1990 Aug; 54(2):255–9

Normal tissue tolerance to irradiation of the cardiovascular system. Stewart JR. **Front Radiat Ther Oncol** 1989;23:302–9 (26 ref.)

Cardiac risk factors: still important in the elderly. Aronow WS. **Geriatrics** 1990 Jan;45(1):71–4, 79–80 (37 ref.)

Strokes and the carotid: myths and realities. Corman LC. **Geriatrics** 1990 Jul;45(7):28–32 (36 ref.)

Protecting older women from their growing risk of cardiac disease. Nachtigall LE, et al. **Geriatrics** 1990 May; 45(5):24–9, 33–4

Coronary embolism by metastatic choriocarcinoma of the uterus: an unusual cause of ischemic heart disease. Vasiljevic JD, et al. **Gynecol Oncol** 1990 Aug;38(2):289–92

Management of hyperlipidemia: an update. Keller KB, et al. **Heart Lung** 1990 May;19(3):317–20

Ostial stenosis of the left coronary artery as a sole clinical manifestation of Takayasu's arteritis: a possible cause of unexpected sudden death. Seguchi M, et al. **Heart Vessels** 1990;5(3):188–91

CHD risk factors: a Framingham study update. Kannel WB. **Hosp Pract [Off]** 1990 Jul 15;25(7):119–27, 130

Risk factors and their implication on silent myocardial ischaemia. Maity AK, et al. **Indian Heart J** 1990 Jan–Feb; 42(1):46–50

Technology, coronary heart disease and its risk factors. Adamapoulos PN, et al. **Int Angiol** 1989 Jul–Sep;8(3):125–8

Coronary arterial pathology in the transplanted human heart. Davies H, et al. **Int J Cardiol** 1989 Oct;25(1):99–117

Systolic coronary occlusion due to myocardial bridging—a rare cause of ischaemia. Furniss SS, et al. **Int J Cardiol** 1990 Jan;26(1):116–7

Insulin, Indian origin and ischaemic heart disease. Hughes LO. **Int J Cardiol** 1990 Jan;26(1):1–4 (31 ref.)

Estrogen and coronary arterial disease in men. Luria MH. **Int J Cardiol** 1989 Nov;25(2):159–66 (50 ref.)

Cardiovascular disease risk factors, CHD morbidity and mortality in the Federal Republic of Germany. Greiser E, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S118–24

Obesity, obesity-related behaviors and coronary heart disease risk factors in black and white premenopausal women. Wing RR, et al. **Int J Obes** 1989;13(4):511–9

Late effects in mouse heart after 60Co gamma-irradiation of the brain: an ultrastructural study. Yang VC, et al. **Int J Radiat Biol** 1990 Jun;57(6):1225–41

Inverse correlation of vitamin E and ischemic heart disease. Gey KF. **Int J Vitam Nutr Res Suppl** 1989;30:224–31 (28 ref.)

Long-term (13–16 years) follow-up of patients with silent myocardial ischemia during exercise. Eriksson J, et al. **Isr J Med Sci** 1989 Sep;25(9):503–6

Prediction of apical thrombus formation in acute myocardial infarction based on left ventricular spatial flow pattern [see comments] Delemarre BJ, et al. **J Am Coll Cardiol** 1990 Feb;15(2):355–60 Comment in: J Am Coll Cardiol 1990 Feb;15(2):361–2.

Role of thrombolysis and thrombin in patients with acute coronary occlusion during percutaneous transluminal coronary angioplasty. Gulba DC, et al. **J Am Coll Cardiol** 1990 Sep;16(3):563–8

Predictors of left ventricular thrombus formation: flow, asynergy and morphology [comment] Kessler KM. **J Am Coll Cardiol** 1990 Feb;15(2):361–2 Comment on: J Am Coll Cardiol 1990 Feb;15(2):355–60.

Selenium status and cardiovascular risk factors in healthy Dutch subjects. Bukkens SG, et al. **J Am Coll Nutr** 1990 Apr;9(2):128–35 (34 ref.)

Elevated blood cholesterol: a risk factor for heart disease that decreases with advanced age. Allred JB, et al. **J Am Diet Assoc** 1990 Apr;90(4):574–6

Treatment of hypertension and ischemic heart disease. Mancia G. **J Cardiovasc Pharmacol** 1989;14 Suppl 9:S12–9 (34 ref.)

Regional versus general anesthesia in high-risk surgical patients: the need for a clinical trial. Manolio TA, et al. **J Clin Anesth** 1989;1(6):414–21

Irradiation-related ischemic heart disease. Corn BW, et al. **J Clin Oncol** 1990 Apr;8(4):741–50 (56 ref.)

The intrauterine and early postnatal origins of cardiovascular disease and chronic bronchitis. Barker DJ, et al. **J Epidemiol Community Health** 1989 Sep;43(3):237–40

Skinfold thickness, body mass index and ischaemic heart disease. Imeson JD, et al. **J Epidemiol Community Health** 1989 Sep;43(3):223–7

Reversal of rejection-induced coronary vasculitis detected early after heart transplantation with increased immunosuppression. Ballester M, et al. **J Heart Transplant** 1989 Sep–Oct;8(5):413–7

Acute rejection and coronary artery disease in long-term survivors of heart transplantation. Narrod J, et al. **J Heart Transplant** 1989 Sep–Oct;8(5):418–20; discussion 420–1

Coronary artery–right ventricular fistula in a heart transplant patient. Süssch G, et al. **J Heart Transplant** 1990 Jan–Feb; 9(1):32–5

An integrated view of hypertension. Kannel WB. **J Hum Hypertens** 1989 Dec;3 Suppl 2:3–8

Exercise and cardiovascular risk in black children. Smith BA, et al. **J Hum Hypertens** 1990 Apr;4(2):127–9

J-shaped curves. Wilhelmsen L. **J Hum Hypertens** 1990 Jun; 4 Suppl 2:21–5 (27 ref.)

Magnesium deficiency in coronary artery disease and cardiac arrhythmias. Sjögren A, et al. **J Intern Med** 1989 Oct; 226(4):213–22 (122 ref.)

Lack of concordance in classification of coronary heart disease risk: high-risk HDL cholesterol less than 35 mg/dl in subjects with desirable total serum cholesterol, less than 200 mg/dl. Glueck CJ, et al. **J Lab Clin Med** 1990 Sep; 116(3):377–85

Rapidly progressive aortic incompetence and coronary artery disease in a patient with Takayasu's disease. Wong K, et al. **J R Soc Med** 1989 Oct;82(10):625–6

Study on experimental model of coronary artery thrombogenesis and acute myocardial infarction: changes in epicardial ECG, platelet function and biochemistry, and pathology. Fang WY, et al. **J Tongji Med Univ** 1989; 9(2):117–20

Myocardial ischemia caused by postoperative malfunction of a patent internal mammary coronary arterial graft. Granke K, et al. **J Vasc Surg** 1990 May;11(5):659–64 (20 ref.)

From the Centers for Disease Control. Coronary heart disease attributable to sedentary lifestyle—selected states, 1988. **JAMA** 1990 Sep 19;264(11):1390, 1392

Cardiac risk classification based on lipid screening [comment] Belsey R, et al. **JAMA** 1990 Mar 2;263(9):1250–2 Comment on: JAMA 1990 Mar 2;263(9):1213–7. Comment on: JAMA 1990 Mar 2;263(9):1245–9.

Is elevated serum cholesterol level a risk factor for coronary heart disease in the elderly? [see comments] Benfante R, et al. **JAMA** 1990 Jan 19;263(3):393–6 Comment in: JAMA 1990 Jun 6;263(21):2889–90.

Cardiovascular risk factors in confirmed prediabetic individuals. Does the clock for coronary heart disease start ticking before the onset of clinical diabetes? [see comments] Haffner SM, et al. **JAMA** 1990 Jun 6;263(21):2893–8 Comment in: JAMA 1990 Jun 6;263(21):2934.

The association of borderline hypertension with target organ changes and higher coronary risk. Tecumseh Blood Pressure study. Julius S, et al. **JAMA** 1990 Jul 18; 264(3):354–8

Consumption of olive oil, butter, and vegetable oils and coronary heart disease risk factors. The Research Group ATS-RF2 of the Italian National Research Council [published erratum appears in JAMA 1990 Apr;263(13):1768] Trevisan M, et al. **JAMA** 1990 Feb 2; 263(5):688–92

Clinical and prognostic significance of silent myocardial ischemia in survivors after acute myocardial infarction. Fukami K, et al. **Jpn Circ J** 1989 Nov;53(11):1407–13

Silent myocardial ischemia in patients with myocardial infarction: evaluation with positron emission computed tomography. Kambara H, et al. **Jpn Circ J** 1989 Nov; 53(11):1437–43

Type A behavior pattern as a risk factor for coronary heart diseases. Maeda S, et al. **Jpn Circ J** 1990 Apr;54(4):457–63

The risk factors for ischemic heart disease in young adults. Tomono S, et al. **Jpn Circ J** 1990 Apr;54(4):436–41

Hyperlipoproteinemia as a risk factor for ischemic heart disease. Yamamura T, et al. **Jpn Circ J** 1990 Apr; 54(4):448–56

Effect of vasectomy on serum lipids, platelet aggregability and development of ischaemic heart disease in rhesus monkeys. Sharda N, et al. **Jpn J Exp Med** 1989 Jun; 59(3):121–6

Ischemic heart disease in systemic lupus erythematosus. A retrospective study of 65 patients treated with prednisolone. Shome GP, et al. **Jpn J Med** 1989 Sep–Oct;28(5):599–603

Concordant dyslipidemia, hypertension and early coronary disease in Utah families. Williams RR, et al. **Klin Wochenschr** 1990;68 Suppl 20:53–9

War, stress, and coronary disease [editorial] **Lancet** 1990 Feb 24;335(8687):446–7

Overpromotion of the dietary theory of coronary disorders [letter] Nixon PG, et al. **Lancet** 1989 Dec 2;2(8675):1334–5

The Rochester Coronary Heart Disease Project: effect of cigarette smoking, hypertension, diabetes, and steroidal estrogen use on coronary heart disease among 40- to 59-year-old women, 1960 through 1982 [see comments] Beard CM, et al. **Mayo Clin Proc** 1989 Dec;64(12):1471–80 Comment in: Mayo Clin Proc 1989 Dec;64(12):1553–7.

Cholesterol testing [letter] Ellin MJ. **Md Med J** 1990 Jul; 39(7):692

Dietary change and coronary heart disease. Walsh GP. **Med Hypotheses** 1990 Feb;31(2):135–9 (42 ref.)

Coronary heart disease attributable to sedentary lifestyle—selected states, 1988. **MMWR** 1990 Aug 17; 39(32):541–4

Stress and silent myocardial ischemia. A new research study at Duke University Medical Center. Blumenthal JA, et al. **N C Med J** 1990 Apr;51(4):135–8

Menopause and coronary risk factors [letter] **N Engl J Med** 1990 Mar 8;322(10):698–9

Cardiac risk of noncardiac surgery [editorial; comment] Eagle KA, et al. **N Engl J Med** 1989 Nov 9;321(19):1330–2 Comment on: N Engl J Med 1989 Nov 9;321(19):1296–300.

A prospective study of obesity and risk of coronary heart disease in women [see comments] Manson JE, et al. **N Engl J Med** 1990 Mar 29;322(13):882–9 Comment in: N Engl J Med 1990 Mar 29;322(13):928–9.

Myocardial ischemia caused by distal coronary-artery constriction in stable angina pectoris. Pupita G, et al. **N Engl J Med** 1990 Aug 23;323(8):514–20

Relation of serum lipoprotein(a) concentration and apolipoprotein(a) phenotype to coronary heart disease in patients with familial hypercholesterolemia. Seed M, et al. **N Engl J Med** 1990 May 24;322(21):1494–9

The perils of obesity in middle-aged women [editorial; comment] VanItallie TB. **N Engl J Med** 1990 Mar 29; 322(13):928–9 Comment on: N Engl J Med 1990 Mar 29;322(13):882–9.

Passive smoking in the home [letter] Hirayama T. **N Z Med J** 1989 Dec 13;102(881):649

Incidence of arrhythmias and myocardial ischaemia during haemodialysis and haemofiltration. Zuber M, et al. **Nephrol Dial Transplant** 1989;4(7):632–4

Deadly smoke. Wells AJ. **Occup Health Saf** 1989 Sep; 58(10):20–2, 44, 69

Relationship of risk factors to subsequent development of stroke and ischemic heart disease in a rural community. Mui K. **Osaka City Med J** 1989 Nov;35(2):145–71

Mechanisms of myocardial ischemic injury assessed by phosphorus-31 magnetic resonance spectroscopy (effects of catecholamine on ischemic hearts). Sakai H. **Osaka City Med J** 1990 May;36(1):1–20

The controversial role of dietary cholesterol and hypercholesterolemia in coronary heart disease and atherogenesis. Stehbens WE. **Pathology** 1989 Jul; 21(3):213–21; discussion 222 (138 ref.)

How to manage other risk factors in patients with hypertension. Borhani NO. **Postgrad Med** 1989 Nov 1; 86(6):171–6

Cholesterol myth club on par with flat earth society [editorial] Griffin GC. **Postgrad Med** 1990 Jan;87(1):13, 16

Myocardial ischemia without atherosclerosis. Houghton JL, et al. **Postgrad Med** 1989 Oct;86(5):121–3, 126–8 (24 ref.)

High-density lipoprotein cholesterol. Recommendations for routine testing and treatment. Lavie CJ, et al. **Postgrad Med** 1990 May 15;87(7):36–44, 47, 51 (23 ref.)

Women and coronary artery disease. Gender confers no immunity. Leaf DA. **Postgrad Med** 1990 May 15; 87(7):55–60 (29 ref.)

Eurotherapeutics III. Proceedings of a conference on risk factors in vascular disease: strategies for treatment. Amsterdam, The Netherlands, 29 September to 1 October 1988. **Postgrad Med J** 1989;65 Suppl 1:S1–60

Diet and coronary heart disease. Kloer HU. **Postgrad Med J** 1989;65 Suppl 1:S13–21 (106 ref.)

Diet and coronary heart disease risk factors in a population with varied intake. The Research Group ATS-RF2 of The Italian National Research Council. Trevisan M, et al. **Prev Med** 1990 May;19(3):231–41

Coffee and coronary heart disease: a review. Rosmarin PC. **Prog Cardiovasc Dis** 1989 Nov-Dec;32(3):239–45 (59 ref.)

Inhibition of peptidoleukotriene responses does not moderate ischemic damage or neutrophil infiltration in myocardium following coronary artery occlusion with reperfusion. Smith EF 3d, et al. **Prog Clin Biol Res** 1989;301:149–53

Hypertriglyceridemia—independent risk factor or risk marker? Hanefeld M, et al. **Przegl Lek** 1989;46(7):588–94 (Eng, Pol)

Lipids and lipoproteins as risk indicators for coronary heart disease (a study on male patients with defined vessel findings). Herrmann W, et al. **Przegl Lek** 1989;46(7):604–10 (Eng, Pol)

Apolipoproteins as risk indicators of ischemic heart disease. Winkler L, et al. **Przegl Lek** 1989;46(7):595–8 (Eng, Pol)

Coronary atherosclerosis and thrombosis. Verstraete M. **Recenti Prog Med** 1990 Apr;81(4):221–7 (108 ref.)

Hypercholesterolaemia in a rural white population and its relationship with other coronary risk factors. Steenkamp HJ, et al. **S Afr Med J** 1990 Jul 21;78(2):85–8

Hypertension in a rural South African white population and the effect of antihypertensive treatment on the risk of coronary heart disease. Steenkamp HJ, et al. **S Afr Med J** 1990 Jul 21;78(2):89–93

The coexistence of major coronary heart disease risk factors in the coloured population of the Cape Peninsula (CRISIC study). Steyn K, et al. **S Afr Med J** 1990 Jul 21;78(2):61–3

Health actions and disease patterns related to coronary heart disease in the coloured population of the Cape Peninsula. Steyn K, et al. **S Afr Med J** 1990 Jul 21;78(2):73–7

Cholesterol and coronary heart disease. Grundy SM. **Scand J Clin Lab Invest Suppl** 1990;199:17–24 (23 ref.)

Shift work and coronary heart disease. Knutsson A. **Scand J Soc Med Suppl** 1989;44:1–36 (207 ref.)

Coronary artery–left ventricular fistula and multiple ventricular septal defects due to blunt chest trauma. Renzulli A, et al. **Thorax** 1989 Dec;44(12):1055–6

Thrombin is an important mediator of cyclic coronary blood flow variations due to platelet aggregation in stenosed canine coronary arteries. Eidt JF, et al. **Trans Assoc Am Physicians** 1988;101:125–36

A clinical profile of patients with coronary artery disease in Nigeria. Ogunowo PO, et al. **Trop Geogr Med** 1989 Jul; 41(3):242–6

Measles associated with coronary arteritis. Takano Y, et al. **Virchows Arch [A]** 1990;416(3):271–6

Lipid screening in a rural West Virginia clinic. Sturgill DD, et al. **W V Med J** 1990 Jan;86(1):9–11

Coronaries, cholesterol and children. The 1989 Long Fox lecture. Lloyd JK. **West Engl Med J** 1990 Mar;105(1):7–11 (43 ref.)

Morphologic and pathogenetic aspects of coronary artery atherosclerosis in ischemic heart disease. Nagornev VA. **Zentralbl Allg Pathol** 1989;135(6):591–8

[Correlation of the date of recurrence in patients with heart disease and biorhythms] Zhao Z. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):178–9 (Chi)

[Models for calculating risks as a tool in screening for cardiovascular diseases] Bryndorf TE, et al. **Ugeskr Laeger** 1990 Apr 16;152(16):1161–4 (Eng. Abstr.) (Dan)

[A comparison of results of simple evaluation of the risk of ischemic heart disease with calculations based on a multiplicative model] Gerdes LU, et al. **Ugeskr Laeger** 1990 Jun 11;152(24):1744–6 (Eng. Abstr.) (Dan)

[Occurrence of cardiovascular risk factors among working Danish men 20–59 years of age] Gerdes LU, et al. **Ugeskr Laeger** 1990 Jun 11;152(24):1747–52 (Eng. Abstr.) (Dan)

[Platelet function, hypertension and ischemic heart disease] Nyrop M. **Ugeskr Laeger** 1989 Sep 25;151(39):2504–7 (30 ref.) (Eng. Abstr.) (Dan)

[Evaluation of the risks of ischemic heart disease (letter)] Olesen ES. **Ugeskr Laeger** 1990 Aug 20;152(34):2445–6 (Dan)

[The 4th International Paris Symposium on Coronary Risk Factors. 22 May 1989. Proceedings] **Ann Cardiol Angeiol (Paris)** 1989 Dec 15;38(9 Pt 2):577–601 (Fre)

[Stress as a risk factor] Consoli SM. **Ann Cardiol Angeiol (Paris)** 1989 Dec 15;38(9 Pt 2):591–4 (Eng. Abstr.) (Fre)

[Coronary insufficiency caused by atherosclerosis. Current pathogenic concepts, clinical, angio-anatomic correlations and therapeutic deductions] Grand A, et al. **Ann Cardiol Angeiol (Paris)** 1990 Jun;39(6):333–41 (62 ref.) (Eng. Abstr.) (Fre)

[Low molecular weight heparin: an real alternative in thrombolysis in hemodialyzed patients. A trial of coronary thrombolysis] Montserrat P, et al. **Ann Cardiol Angeiol (Paris)** 1989 Dec 30;38(10):651–5 (Eng. Abstr.) (Fre)

[Effect of alpha inhibitors on risk cofactors in patients with hypertension] Plouin P. **Ann Cardiol Angeiol (Paris)** 1989 Dec 15;38(9 Pt 2):577–9; discussion 580 (17 ref.) (Eng. Abstr.) (Fre)

[Postoperative iatrogenic coronaro–ventricular fistula] Jebara VA, et al. **Ann Chir** 1989;43(8):643–5 (30 ref.) (Eng. Abstr.) (Fre)

[The risk of peroperative myocardial ischemia, can it be anticipated in vascular surgery?] Cittanova ML, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R97 (Fre)

[Incidence and predictive hemodynamic factors in peroperative myocardial ischemia after thoracic peridural anesthesia combined with general anesthesia] Cittanova ML, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R176 (Fre)

[Myocardial protection by coronary autotransfusion during angioplasty] Geschwind H, et al. **Ann Med Interne (Paris)** 1989;140(7):557–60 (11 ref.) (Eng. Abstr.) (Fre)

[Myocardial infarction and anti-ethinylestradiol antibody. Apropos of a case in an 18-year-old woman] Beigbeder JY, et al. **Arch Mal Coeur** 1990 Jun;83(7):1015–8 (Eng. Abstr.) (Fre)

[Iatrogenic coronary stenosis after angioplasty] Quiret JC, et al. **Arch Mal Coeur** 1990 Mar;83(3):385–91 (Eng. Abstr.) (Fre)

[Peroperative and postoperative cardiologic complications in vascular surgery] Orlowski P, et al. **Cah Anesthesiol** 1989 Oct;37(6):399–402 (Fre)

[Identification and prevention of vascular risk. Significance of metformin] Isnard F, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:311–23 (33 ref.) (Fre)

[Heart involvement in diabetic patients] Grimaldi A, et al. **Presse Med** 1990 Mar 24;19(11):519–24 (27 ref.) (Eng. Abstr.) (Fre)

[Cholesterol, nutrition and risk of coronary diseases] **Rev Epidemiol Sante Publique** 1990;38(1):77–8 (0 ref.) (Fre)

[Hypercholesterolemia and cardiac sequelae: primary and secondary prevention work via exercise (interview by Robert Henry)] Juneau M. **Union Med Can** 1990 Jul–Aug; 119(4):213–4, 217–8 (Fre)

[Perioperative myocardial ischemia in patients with peripheral arterial occlusive diseases] Rapp HJ, et al. **Anaesthesist** 1990 Apr;39(4):217–21 (Eng. Abstr.) (Ger)

[Hypercholesterolemia and coronary heart disease (letter)] **Dtsch Med Wochenschr** 1990 Apr 6;115(14):557–8 (Ger)

[Ischemic reaction in a young woman without coronary sclerosis: Bland–White–Garland syndrome] Cieslinski G, et al. **Dtsch Med Wochenschr** 1989 Dec 1;114(50):1960–3 (Eng. Abstr.) (Ger)

[Significance of hypercholesterolemia for epidemiology, prevention and pathogenesis of coronary heart diseases] Gohlke H. **Dtsch Med Wochenschr** 1989 Dec 1; 114(50):1974–8 (37 ref.) (Ger)

[Coronary artery stenoses close to the ostia after mediastinal irradiation] Kleikamp G, et al. **Dtsch Med Wochenschr** 1990 Mar 30;115(13):501–4 (Eng. Abstr.) (Ger)

[Influence of coronary risk factors in hypertension. Report of an international symposium. 26 January 1990, London] **Fortschr Med** 1990;108 Suppl 88:1–11 (Ger)

[Lipoprotein(a): characteristics of a special lipoprotein and its potential clinical significance] Armstrong VW. **Ther Umsch** 1990 Jun;47(6):475–81 (Eng. Abstr.) (Ger)

[Description of a special form of postprandial hyperlipidemia: possible cause of premature coronary heart disease] Wieland E, et al. **Ther Umsch** 1990 Jun;47(6):492–8 (Eng. Abstr.) (Ger)

[Acute complications in coronary angioplasty: dependence on catheter material and adjuvant medication] Spielberg C, et al. **Z Kardiol** 1990 Jun;79(6):450–4 (Eng. Abstr.) (Ger)

[Cardiac involvement in Horton's disease] Soldini M, et al. **Ann Ital Med Int** 1987 Jul–Sep;2(3):229–35 (31 ref.) (Eng. Abstr.) (Ita)

[Silent post-infarction ischemia] Galli M. **G Ital Cardiol** 1989 Aug;19(8):731–8 (66 ref.) (Ita)

[New problems in occupational medicine: findings on the risk of coronary heart disease in the services industry] Cesana G, et al. **Med Lav** 1989 May–Jun;80(3):192–200 (Eng. Abstr.) (Ita)

[Transitory myocardial ischemia appearing after cranial trauma. Description of a case] Cacciafesta M, et al. **Recenti Prog Med** 1990 Apr;81(4):259–62 (Eng. Abstr.) (Ita)

[Relation of serum lipids disorders and ischemic heart disease in diabetics] Muto E. **Hokkaido Igaku Zasshi** 1989 Jul; 64(4):406–10 (Jpn)

[Perspectives in familial hypercholesterolemia: with particular reference to associated ischemic heart disease] Miida T, et al. **J Cardiol** 1988 Dec;18(4):1007–13 (Eng. Abstr.) (Jpn)

[Alcohol-induced coronary spastic angina associated with myocardial bridge: a case report] Nishitani K, et al. **J Cardiol Suppl** 1989;22:90–3 (Jpn)

[Iatrogenic left main coronary artery stenosis following aortic valve replacement: two cases report] Tomizawa Y, et al. **Kyobu Geka** 1990 Jun;43(6):444–7 (Eng. Abstr.) (Jpn)

[Ischemic heart disease and prostanoids: pathogenesis and its implications for treatment] Aoyama T, et al. **Nippon Rinsho** 1990 Jun;48(6):1229–33 (Jpn)

[Risk score for coronary disease. A pedagogic model used in the occupational health services] Bye A. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3209–12 (Eng. Abstr.) (Nor)

[Cholesterol as a risk factor of coronary disease in women] Graff-Iversen S. **Tidsskr Nor Laegeforen** 1989 Oct 10; 109(28):2912–4 (Eng. Abstr.) (Nor)

[Prevalence of coronary disease risk factors in the male population 40–59 years of age from the housing complex "Czechów" in Lublin] Hanzlik J, et al. **Kardiol Pol** 1989; 32 Suppl 1:71–8 (Eng. Abstr.) (Pol)

[Content of overall fat in the body and levels of selected coronary risk factors] Sodolski W, et al. **Kardiol Pol** 1989; 32(1):7–12 (Eng. Abstr.) (Pol)

[Basic principles of the prevention of cardiovascular diseases in light of knowledge and opinions of the Polish community. II. Knowledge of coronary disease risk factors] Wągrowska H, et al. **Kardiol Pol** 1989;32 Suppl 2:47–55 (Eng. Abstr.) (Pol)

[Risk of developing coronary disease in relation to the level of education and type of work in a male population of Warsaw factories. III. Evaluation of the relation of the level of education and type of work and changes in the degree of risk during the conduction of a prevention program] Wągrowska H. **Kardiol Pol** 1989;32 Suppl 1:61–70 (Eng. Abstr.) (Pol)

[Risk of developing coronary disease in relation to the level of education and type of work in a male population of Warsaw factories. I. Evaluation of the relation of the level of education and analyzed risk factors of coronary disease] Wągrowska H. **Kardiol Pol** 1989;32 Suppl 1:51–6 (Eng. Abstr.) (Pol)

[Risk of developing coronary disease in relation to the level of education and type of work in a male population of Warsaw factories. II. Relation of the type of work and analyzed risk factors of coronary disease] Wągrowska H. **Kardiol Pol** 1989;32 Suppl 1:57–60 (Eng. Abstr.) (Pol)

[Effect of long-term treatment with propranolol or hydrochlorothiazide on biochemical risk factors of coronary disease in patients with hypertension] Witkowska M, et al. **Kardiol Pol** 1989;32 Suppl 2:25–32 (Eng. Abstr.) (Pol)

[Evaluation of the results of chronic hemodialysis therapy in Gdańsk during the 15-year period 1969–1983. II. Technical, vascular and clinical complications and the causes of death] Rutkowski B, et al. **Pol Arch Med Wewn** 1987 Jul;78(1):17–23 (Eng. Abstr.) (Pol)

[Cardiological symptoms in collagen diseases] Wójtowicz B. **Pol Arch Med Wewn** 1987 Mar;77(3):112–5 (18 ref.) (Pol)

[Hypertension and coronary heart disease. Antihypertensive drugs and blood lipids] Leren P. **Pol Tyg Lek** 1989 Mar 20–27;44(12–13):309–12 (40 ref.) (Pol)

[Hyperuricemia and arterial hypertension] Tykarski A. **Pol Tyg Lek** 1989 Jul 23–30;44(30–31):691–5 (Pol)

[Serum lipoprotein level and coronary disease] Saprygin DB, et al. **Przegl Lek** 1989;46(7):599–603 (Pol)

[Relation between ischemic heart disease and tobacco smoking] Kuch J, et al. **Wiad Lek** 1989 Apr 30;42(8):489–92 (Eng. Abstr.) (Pol)

[Diabetes mellitus and coronopathy] Lopes MR, et al. **Rev Port Cardiol** 1989 Nov;8(11):795–9 (20 ref.) (Eng. Abstr.) (Por)

[Controversies and view points in the problem of ischemic cardiopathy] Velican C. **Rev Med Interna [Med Interna]** 1989 Mar–Apr;41(2):105–17 (37 ref.) (Eng. Abstr.) (Rum)

[Imbalance of the plasma proteinase–inhibitory system in familial hypercholesterolemia] Alidzhanova KhG, et al. **Kardiologiia** 1989 Jul;29(7):115–6 (Rus)

[Effect of regular physical exercises on cardiac resistance to ischemia] Kyrge AK, et al. **Kardiologiia** 1990 Jan; 30(1):48–52 (Eng. Abstr.) (Rus)

[Prostacyclin–thromboxane balance and risk factors of ischemic heart disease] Markov KhM. **Kardiologiia** 1989 Sep;29(9):5–12 (Eng. Abstr.) (Rus)

[Integral rating of risk of the development of ischemic heart disease and its significance in the selection of diagnostic criteria for physical exercise test] Plavinskaia SI. **Kardiologiia** 1989 Nov;29(11):100–4 (Eng. Abstr.) (Rus)

[Role of polymorphonuclear leukocytes in the pathogenesis of ischemic heart disease] Redchits EG. **Kardiologiia** 1989 Dec;29(12):115–20 (103 ref.) (Rus)

[Vascular mechanisms of disorders of rheological properties of the blood in patients with myocardial infarction] Savenkov MP, et al. **Kardiologiia** 1989 Oct;29(10):43–7 (Eng. Abstr.) (Rus)

[Relation between the indicators of temporary disability and risk factors of ischemic heart disease in male industrial workers (epidemiological study)] Vartapetova NV, et al. **Kardiologiia** 1990 Apr;30(4):98–102 (Eng. Abstr.) (Rus)

[Late outcome of neurocirculatory asthenia] Doshchenko VN, et al. **Sov Med** 1989;(9):120 (Rus)

[Prognostic significance of arterial blood pressure levels and the effectiveness of the treatment of arterial hypertension in a non-organized male population 40–59 years of age in Moscow] Kalinina AM, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):50–5 (Eng. Abstr.) (Rus)

[Coronary disease, ageing, duration of diabetes and lipoprotein disorders] Medenica M, et al. **Med Arh** 1986; 40(6):317–23 (Eng. Abstr.) (Scr)

[Lipoprotein Lp(a) in patients with chronic renal insufficiency on hemodialysis] Cuxart M, et al. **Med Clin (Barc)** 1989 May 27;92(20):769–71 (Eng. Abstr.) (Spa)

[Silent ischemia after myocardial infarct] López-Sendón J, et al. **Rev Port Cardiol** 1990 Apr;9(4):361–6 (15 ref.) (Eng. Abstr.) (Spa)

[Connection between cholesterol levels and the risk of ischemic heart disease in men] Orth-Gomér K, et al. **Lakartidningen** 1989 Dec 27;86(52):4600–1 (Swe)

[Coronary disease after transplantation reduces the survival time of patients] Persson S, et al. **Lakartidningen** 1990 May 2;87(18):1562, 1565 (Swe)

GENETICS

Risk factor variability and coronary heart disease. Berg K. **Acta Genet Med Gemellol (Roma)** 1990;39(1):15–24 (30 ref.)

Cigarette smoking as a cause of lung cancer and coronary heart disease. A study of smoking–discordant twin pairs. Kaprio J, et al. **Acta Genet Med Gemellol (Roma)** 1990; 39(1):25–34

A multivariate method for detecting genetic linkage, with application to a pedigree with an adverse lipoprotein phenotype. Amos CI, et al. **Am J Hum Genet** 1990 Aug; 47(2):247–54

Population–based frequency of dyslipidemia syndromes in coronary–prone families in Utah. Williams RR, et al. **Arch Intern Med** 1990 Mar;150(3):582–8

Association of DNA polymorphism at the apolipoprotein B gene locus with coronary heart disease and serum very low density lipoprotein levels. Paulweber B, et al. **Arteriosclerosis** 1990 Jan–Feb;10(1):17–24

DNA polymorphisms of the apolipoprotein B gene in patients with premature coronary artery disease. Genest JJ Jr, et al. **Atherosclerosis** 1990 May;82(1–2):7–17

Genetic variation in the cholesteryl ester transfer protein and apolipoprotein A–I genes and its relation to coronary heart disease in a Sri Lankan population. Mendis S, et al. **Atherosclerosis** 1990 Jul;83(1):21–7

Assessment of a PstI polymorphism of the apolipoprotein–AI gene in Australian patients with coronary artery disease. Dorow DS, et al. **Aust N Z J Med** 1989 Dec;19(6):677–81

Impact of medical genetics on research and practices in the area of cardiovascular disease. Berg K. **Clin Genet** 1989 Nov;36(5):299–312 (51 ref.)

Increased frequencies of apolipoprotein epsilon 2 and epsilon 4 alleles in patients with ischemic heart disease. Eto M, et al. **Clin Genet** 1989 Sep;36(3):183–8

Genetics of variability of CHD risk. Sing CF, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S183–95

Characteristics of stroke victims associated with early cardiovascular mortality in their children. Howard G, et al. **J Clin Epidemiol** 1990;43(1):49–54

Hypervariability in a minisatellite 3′ of the apolipoprotein B gene in patients with coronary heart disease compared with normal controls. Friedl W, et al. **J Lipid Res** 1990 Apr;31(4):659–65

Genetic markers of familial coronary heart disease [letter] Price WH, et al. **Lancet** 1990 Sep 8;336(8715):629

Familial similarity in Type A behaviour and physiological measurements as related to sex. Lundberg U, et al. **Scand J Psychol** 1990;31(1):34–41

Apolipoprotein E phenotypes in patients with coronary artery disease. Miida T. **Tohoku J Exp Med** 1990 Mar; 160(3):177–87

Individuality, hyperlipidemia, and premature coronary artery disease. Brunzell JD, et al. **World Rev Nutr Diet** 1990; 63:72–83 (36 ref.)

Environmental and genetic risk factors for coronary heart disease. Current state of the WHO genetic case–control and family study. Heinemann L, et al. **World Rev Nutr Diet** 1990;63:84–9

Genetic differences in risk of disease within and between populations. Sing CF, et al. **World Rev Nutr Diet** 1990; 63:220–35 (47 ref.)

[Genetics and coronary heart disease] Berg K. **Tidsskr Nor Laegeforen** 1989 Oct 20;109(29):3010–4 (Eng. Abstr.) (Nor)

[Population genealogy research on ischemic heart disease among the population of Alma–Ata] Zhaparkhanova ZS, et al. **Ter Arkh** 1989;61(12):21–4 (Eng. Abstr.) (Rus)

[The Fuenlabrada study: a familial aggregation of ischemic cardiopathy and cardiovascular risk factors] Plaza I, et al. **Rev Esp Cardiol** 1989 Oct;42(8):501–12 (Eng. Abstr.) (Spa)

HISTORY

Aetiology of coronary artery disease: an historical approach. Michaels L. **Br Heart J** 1966 Mar;28(2):258–64

[The first clinical experience with heart transplantation] Shumakov VI, et al. **Grud Serdechnososudistaia Khir** 1990; (5):8–12 (Eng. Abstr.) (Rus)

[The history of Goethe's illness] Evdokimov PP. **Klin Med (Mosk)** 1989 Oct;67(10):153–5 (Rus)

[The role of V. P. Obraztsov and N. D. Strazhesko in the development of the ischemic heart disease problem] Burchinskiĭ GI. **Vrach Delo** 1989 Dec;(12):4–6 (Rus)

IMMUNOLOGY

Prevalence of anticardiolipin antibodies in coronary artery disease. De Caterina R, et al. **Am J Cardiol** 1990 Apr 1; 65(13):922–3

Immunologic abnormalities associated with acute ischemic heart disease (a pilot study). Kaufman HS, et al. **Ann Allergy** 1989 Oct;63(4):287–90

Serum levels of tumor necrosis factor, interleukin 2 receptor, and interferon–gamma in Kawasaki disease involved coronary–artery lesions. Matsubara T, et al. **Clin Immunol Immunopathol** 1990 Jul;56(1):29–36

Propagation of infiltrating lymphocytes and graft coronary disease in cardiac transplant recipients. Kaufman CL, et al. **Hum Immunol** 1990 Jun;28(2):228–36

A study of the immunofunction in patients of coronary heart disease with the fundamental deficiency and outward excess syndrome. He W, et al. **J Tradit Chin Med** 1989 Dec; 9(4):290–3

Anticardiolipin antibody levels in diabetic subjects with and without coronary artery disease. Hendra TJ, et al. **Postgrad Med J** 1989 Mar;65(761):140–3

[A preliminary discussion on the immunologic function of red blood cells in 62 cases of coronary heart disease] Tao HD. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Aug;17(4):240–1 (Chi)

[Angiogenic activity of mononuclear cells in the peripheral blood of patients with ischemic heart disease] Pawińska M, et al. **Wiad Lek** 1990 Jan 1–15;43(1–2):4–9 (Eng. Abstr.) (Pol)

[Immunoglobulins E in patients with ischemic heart disease] Kushekbaeva AE, et al. **Klin Med (Mosk)** 1990 Jan; 68(1):36–9 (Rus)

[Contents of natural antibodies to thrombin and alpha–2–macroglobulins in the blood of donors and patients with ischemic heart disease] Miagkova MA, et al. **Sov Med** 1990;(4):12–4 (Eng. Abstr.) (Rus)

METABOLISM

Muscle relaxants change myocardial metabolism in patients with ischemic heart disease during high–dose fentanyl anesthesia. Gilbert M, et al. **Acta Anaesthesiol Scand** 1990 Jan;34(1):47–54

Role of biochemical changes in the development of early ischemic and reperfusion arrhythmias. Takács EI, et al. **Acta Physiol Hung** 1990;75 Suppl:271–2

Ischemic heart disease as copper deficiency. Klevay LM. **Adv Exp Med Biol** 1989;258:197–208 (101 ref.)

Ventricular histamine concentrations and mast cell counts in the rat heart during acute ischaemia. Dai S, et al. **Agents Actions** 1990 Mar;29(3–4):138–43

The effects of propranolol on regional cardiac metabolism during ischemia and reperfusion assessed by magnetic resonance spectroscopy. Kavanaugh KM, et al. **Am Heart J** 1990 Jun;119(6):1274–9

Effects of diltiazem on phosphate metabolism in ischemic and reperfused myocardium using phosphorus31 nuclear magnetic resonance spectroscopy in vivo. Kavanaugh KM, et al. **Am Heart J** 1989 Dec;118(6):1210–9

Ischemia and reperfusion induced formation of eicosanoids in isolated rat hearts. Engels W, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1865–71

Reduced substrate oxidation in postischemic myocardium: 13C and 31P NMR analyses. Lewandowski ED, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1357–65

Ischemia and reperfusion increase 125I–labeled endothelin–1 binding in rat cardiac membranes. Liu J, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H829–35

Effect of acidosis and alkalosis on postischemic Ca gain in isolated rat heart. Panagiotopoulos S, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H821–8

Vascular washout reduces Ca2+ overload and improves function of reperfused ischemic hearts. Tani M, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H354–61

Beta–receptors and adenylate cyclase: comparison of nonischemic, ischemic, and postmortem tissue. Vatner DE, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):H140–4

Free radicals in ischemic and reperfusion myocardial injury: is this the time for clinical trials? Cohen MV. **Ann Intern Med** 1989 Dec 1;111(11):918–31 (145 ref.)

Mechanisms of Ca2+ overload in reperfused ischemic myocardium. Tani M. **Annu Rev Physiol** 1990;52:543–59 (95 ref.)

Effects of vitamin E on prostacyclin release and lipid composition of the ischemic rat heart. Pyke DD, et al. **Arch Biochem Biophys** 1990 Mar;277(2):429–33

Adenosine–induced increase in myocardial ATP: are there beneficial effects for the ischaemic myocardium? Hohlfeld T, et al. **Basic Res Cardiol** 1989 Sep–Oct;84(5):499–509

Transmural inhomogeneity of extracellular [K+] and pH and myocardial energy metabolism in the isolated rat heart during acute global ischemia; dependence on gaseous environment. Schaapherder AF, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):33–44

Use of 3,3,5,5–tetramethyl–1–pyrroline–1–oxide spin trap for the continuous flow ESR monitoring of hydroxyl radical generation in the ischemic and reperfused myocardium. Culcasi M, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1274–80

Detection of hydroxyl radical in the mitochondria of ischemic–reperfused myocardium by trapping with salicylate. Das DK, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1004–9

Glutathione disulfide formation and lipid peroxidation during cardiac ischemia and reflow in the dog in vivo. Lenz ML, et al. **Biochem Biophys Res Commun** 1989 Oct 31; 164(2):722–7

Ischaemia causes externalization of endothelin–1 binding sites in rat cardiac membranes. Liu JJ, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1220–5

Collagen degradation in ischaemic rat hearts. Takahashi S, et al. **Biochem J** 1990 Jan 1;265(1):233–41

Reappraisal of the e.p.r. signals in (post)–ischaemic cardiac tissue. van der Kraaij AM, et al. **Biochem J** 1989 Dec 15; 264(3):687–94

Association of myocardial glutamate and aspartate pool and functional recovery of postischemic heart. Pisarenko OI, et al. **Biochem Med Metab Biol** 1989 Oct;42(2):105–17

Eicosanoids in myocardial ischemia. Schrör K, et al. **Biomed Biochim Acta** 1989;48(10):729–34 (56 ref.)

Enhanced alpha–adrenoceptor responsiveness and receptor number during global ischaemia in the Langendorff perfused rat heart. Butterfield MC, et al. **Br J Pharmacol** 1990 Jul;100(3):641–5

Effect of D,L–carnitine on the response of the isolated heart of the rat to ischaemia and reperfusion: relation to mitochondrial function. Duan JM, et al. **Br J Pharmacol** 1989 Dec;98(4):1319–27

Effects of iloprost (ZK 36374) on glutathione status during ischaemia and reperfusion of rabbit isolated hearts. Ferrari R, et al. **Br J Pharmacol** 1989 Oct;98(2):678–84

Continuous fluorimetric assessment of the changes in cytoplasmic calcium concentration during exposure of rat isolated myocardium to conditions of simulated ischaemia. Northover BJ. **Br J Pharmacol** 1990 Jul;100(3):477–82

Alterations in myocardial fatty acid metabolism contribute to ischemic injury in the diabetic. Lopaschuk GD. **Can J Cardiol** 1989 Sep;5(6):315–20 (84 ref.)

Synthesis and relevance of cardiac eicosanoids with particular emphasis on ischemia and reperfusion. Karmazyn M. **Can J Physiol Pharmacol** 1989 Aug;67(8):912–21 (103 ref.)

Calcium inhibition of glycolysis contributes to ischaemic injury. Auffermann W, et al. **Cardiovasc Res** 1990 Jun; 24(6):510–20

Apparent inosine uptake by the human heart. de Jong JW, et al. **Cardiovasc Res** 1989 Jun;23(6):484–8

Attenuation of the rise in extracellular potassium concentration during myocardial ischaemia by d,l–sotalol and d–sotalol. Hicks MN, et al. **Cardiovasc Res** 1990 May; 24(5):404–10

An increase in myocardial beta–adrenoceptors to compensate for postischaemic dysfunction following coronary micro–embolisation in dogs. Hori M, et al. **Cardiovasc Res** 1989 May;23(5):424–31

The effect of reserpine and guanethidine on carbohydrate metabolism in ischaemic rat myocardium. Metz V, et al. **Cardiovasc Res** 1989 May;23(5):385–9

Adenine nucleotide depletion and contractile dysfunction in the "stunned" myocardium. Zucchi R, et al. **Cardiovasc Res** 1990 Jun;24(6):440–6

Ultrastructure and Ca2+ reallocation during ischemia, the Ca2+ paradox and metabolic acidosis. Vandeplassche G, et al. **Cell Biol Int Rep** 1990 Apr;14(4):317–34

Influence of ischemia on [Ca2+]i transients following drug therapy in hearts from aortic constricted rats. Wagner S, et al. **Cell Calcium** 1990 Jun–Jul;11(6):431–44

Intermittent ischemia produces a cumulative depletion of mitochondrial adenine nucleotides in the isolated perfused rat heart. Asimakis GK, et al. **Circ Res** 1990 Feb; 66(2):302–10

Functional coronary microvascular injury evident as increased permeability due to brief ischemia and reperfusion. Dauber IM, et al. **Circ Res** 1990 Apr; 66(4):986–98

Differential effect of global ischemia on the ryanodine–sensitive and ryanodine–insensitive calcium uptake of cardiac sarcoplasmic reticulum. Feher JJ, et al. **Circ Res** 1989 Nov;65(5):1400–8

Impaired prostaglandin E1/I2 receptor activity of human blood platelets in acute ischemic heart disease. Kahn NN, et al. **Circ Res** 1990 Apr;66(4):932–40

Reduction of ischemic K+ loss and arrhythmias in rat hearts. Effect of glibenclamide, a sulfonylurea. Kantor PF, et al. **Circ Res** 1990 Feb;66(2):478–85

Direct measurement of changes in intracellular calcium transients during hypoxia, ischemia, and reperfusion of the intact mammalian heart. Kihara Y, et al. **Circ Res** 1989 Oct;65(4):1029–44

Glucose and palmitate oxidation in isolated working rat hearts reperfused after a period of transient global ischemia. Lopaschuk GD, et al. **Circ Res** 1990 Feb;66(2):546–53

Quantification of [Ca2+]i in perfused hearts. Critical evaluation of the 5F–BAPTA and nuclear magnetic resonance method as applied to the study of ischemia and reperfusion. Marban E, et al. **Circ Res** 1990 May; 66(5):1255–67

Myocardial transport of hexakis(2–methoxyisobutylisonitrile) and thallium before and after coronary reperfusion. Meerdink DJ, et al. **Circ Res** 1990 Jun;66(6):1738–46

Thromboxane B2 in cardiac lymph. Effect of superoxide dismutase and catalase during myocardial ischemia and reperfusion. Michael LH, et al. **Circ Res** 1990 Apr; 66(4):1040–4

Ischemic preconditioning slows energy metabolism and delays ultrastructural damage during a sustained ischemic episode. Murry CE, et al. **Circ Res** 1990 Apr;66(4):913–31

Correlation between transmural high energy phosphate levels and myocardial blood flow in the presence of graded coronary stenosis. Path G, et al. **Circ Res** 1990 Sep; 67(3):660–73

Synthesis of lipoxygenase and epoxygenase products of arachidonic acid by normal and stenosed canine coronary arteries. Rosolowsky M, et al. **Circ Res** 1990 Mar; 66(3):608–21

Correlation between cytosolic free calcium, contracture, ATP, and irreversible ischemic injury in perfused rat heart. Steenbergen C, et al. **Circ Res** 1990 Jan;66(1):135–46

One hour of myocardial ischemia decreases the activity of the stimulatory guanine–nucleotide regulatory protein Gs. Susanni EE, et al. **Circ Res** 1989 Oct;65(4):1145–50

Increase of Gi alpha in human hearts with dilated but not ischemic cardiomyopathy. Böhm M, et al. **Circulation** 1990 Oct;82(4):1249–65

Calcium and its role in myocardial cell injury during ischemia and reperfusion. Marban E, et al. **Circulation** 1989 Dec;80(6 Suppl):IV17–22

Catecholamines in myocardial ischemia. Systemic and cardiac release. Schömig A. **Circulation** 1990 Sep;82(3 Suppl):II13–22 (95 ref.)

Adrenergic receptors and sensitization of adenylyl cyclase in acute myocardial ischemia. Strasser RH, et al. **Circulation** 1990 Sep;82(3 Suppl):II23–9 (63 ref.)

Alterations in beta–adrenergic receptors, adenylate cyclase, and cyclic AMP concentrations during acute myocardial ischemia and reperfusion. Thandroyen FT, et al. **Circulation** 1990 Sep;82(3 Suppl):II30–7 (51 ref.)

Influence of acute myocardial ischaemia on ventricular cyclic AMP concentrations in naive and morphine–treated rats. Ko WW, et al. **Clin Exp Pharmacol Physiol** 1988 Oct; 15(10):733–9

Simultaneous in vivo measurements of intracellular and extracellular myocardial pH during repeated episodes of ischemia. Khabbaz KR, et al. **Curr Surg** 1989 Sep–Oct; 46(5):399–400

Subcellular distribution of energy metabolites in the pre–ischaemic and post–ischaemic perfused working rat heart. Humphrey SM, et al. **Eur J Biochem** 1990 Aug 17; 191(3):755–9

Glucose requirement for postischemic recovery of perfused working heart. Mallet RT, et al. **Eur J Biochem** 1990 Mar 10;188(2):481–93

Real–time continuous–flow spin trapping of hydroxyl free radical in the ischemic and post–ischemic myocardium. Pietri S, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):163–73

Ramiprilat attenuates the local release of noradrenaline in the ischemic myocardium. Carlsson L, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):157–64

The influence of nifedipine and mioflazine on mitochondrial calcium overload in normoxic and ischaemic guinea–pig hearts. Hugtenburg JG, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):71–8

Effect of lidocaine on the accumulation of non–esterified fatty acids in the ischemic perfused rat heart. Nakamura K, et al. **Eur J Pharmacol** 1989 Oct 10;169(2–3):259–67

Alleviation of myocardial dysfunction and abnormal lactate metabolism during coronary stenosis in dogs by ICI 118,551. Noguchi K, et al. **Eur J Pharmacol** 1989 Sep 22; 168(3):315–28

ESR spin trapping and NMR spectroscopy of the same heart shows correlation between energy depression and radical formation during postischemic reperfusion. Blasig IE, et al. **FEBS Lett** 1990 Jul 2;267(1):29–32

Direct detection of radical production in the ischaemic and reperfused myocardium: current status. Davies MJ. **Free Radic Res Commun** 1989;7(3–6):275–84 (43 ref.)

31P–NMR spectroscopy of phosphate compartmentation during ischaemia in hearts protected by cardioplegic treatment. Stier A, et al. **Free Radic Res Commun** 1989; 7(3–6):293–300

Oxygen–derived free radicals and postischemic myocardial reperfusion: therapeutic implications. Richard VJ, et al. **Fundam Clin Pharmacol** 1990;4(1):85–103 (118 ref.)

Cytochemical markers of ischaemia in the heart and brain. Borgers M, et al. **Histochem J** 1990 Mar;22(3):125–33 (64 ref.)

The effects of bradykinin and the ischemic isolated rat heart. Tio RA, et al. **Horm Metab Res Suppl** 1990;22:85–9

Inhibition of ubiquinone synthesis in isolated rat heart under an ischemic condition. Sugawara H, et al. **Int J Biochem** 1990;22(5):477–80

Sexual activity and coronary arterial disease [letter; comment] Cheng TO. **Int J Cardiol** 1990 Mar;26(3):387 Comment on: Int J Cardiol 1989 Sep;24(3):317–26.

Cardiac metabolic effects of heparin differentiate between patients with normal and stenotic coronary arteries. Thomassen A, et al. **Int J Cardiol** 1990 Apr;27(1):37–46

Magnetic resonance spectroscopy. Evaluation of ischemic heart disease. Schaefer S, et al. **Invest Radiol** 1989 Dec; 24(12):969–72 (10 ref.)

Limitations of regional myocardial thallium clearance for identification of disease in individual coronary arteries. Becker LC, et al. **J Am Coll Cardiol** 1989 Nov 15; 14(6):1491–500

Measurement and characterization of postischemic free radical generation in the isolated perfused heart. Zweier JL, et al. **J Biol Chem** 1989 Nov 15;264(32):18890–5

Local inhibition of bradykinin degradation in ischemic hearts. Linz W, et al. **J Cardiovasc Pharmacol** 1990;15 Suppl 6:S99–109

Reoxygenation, but neither hypoxia nor intermittent ischemia, increases [125I]endothelin–1 binding to rat cardiac membranes. Liu JJ, et al. **J Cardiovasc Pharmacol** 1990 Mar;15(3):436–43

Pronounced accumulation of metoprolol in ischemic myocardium after coronary venous retroinfusion. Ryden L, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):22–8

Effects of diltiazem on lactate, ATP, and cytosolic free calcium levels in ischemic hearts. Watts JA, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):44–9

Relationship between myocardial metabolites and contractile abnormalities during graded regional ischemia. Phosphorus–31 nuclear magnetic resonance studies of porcine myocardium in vivo. Schaefer S, et al. **J Clin Invest** 1990 Mar;85(3):706–13

Lipoproteins and coronary heart disease. Betteridge DJ. **J Hum Hypertens** 1989 Dec;3 Suppl 2:13–24; discussion 24–5 (46 ref.)

Differences in urate metabolism between normouricemia and hyperuricemia in coronary heart disease in man. Hisatome I, et al. **J Med** 1989;20(5–6):363–70

Myocardial K+ repletion and rise in contractility after brief ischemic periods in the pig. Aksnes G, et al. **J Mol Cell Cardiol** 1989 Jul;21(7):681–90

Effects of hemodynamic variables on myocardial K+ balance during and after shortlasting ischemia. Aksnes G, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1273–84

No evidence for an increased lipid peroxidation during reoxygenation in Langendorff hearts and isolated atria of rats. Brasch H, et al. **J Mol Cell Cardiol** 1989 Jul; 21(7):697–707

The protective action of pyruvate on recovery of ischemic rat heart: comparison with other oxidizable substrates. Cavallini L, et al. **J Mol Cell Cardiol** 1990 Feb;22(2):143–54

31P NMR spectroscopy of hypertrophied rat heart: effect of graded global ischemia. Clarke K, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1315–25

The effect of calcium antagonists on the activities of lipid metabolizing enzymes in the isolated ischaemically perfused and reperfused rat heart. Griffiths EJ, et al. **J Mol Cell Cardiol** 1990 Mar;22(3):303–10

Adenosine production and energy metabolism in ischaemic and metabolically stimulated rat heart. Headrick J, et al. **J Mol Cell Cardiol** 1989 Nov;21(11):1089–100

Urate production by human heart. Huizer T, et al. **J Mol Cell Cardiol** 1989 Jul;21(7):691–5

Intracellular magnesium during myocardial ischemia and reperfusion: possible consequences for postischemic recovery. Kirkels JH, et al. **J Mol Cell Cardiol** 1989 Nov; 21(11):1209–18

Adenosine A1 receptor mediated protection of the globally ischemic isolated rat heart. Lasley RD, et al. **J Mol Cell Cardiol** 1990 Jan;22(1):39–47

The role of the neutrophil and free radicals in ischemic myocardial injury. Lucchesi BR, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1241–51 (44 ref.)

The role of neutrophils and free radicals in the ischemic–reperfused heart: why the confusion and controversy? Reimer KA, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1225–39 (88 ref.)

Calcium transport and phospholamban in sarcoplasmic reticulum of ischemic myocardium. Schoutsen B, et al. **J Mol Cell Cardiol** 1989 Jul;21(7):719–27

Cerium chloride as a histochemical marker of hydrogen peroxide in reperfused ischemic hearts. Shlafer M, et al. **J Mol Cell Cardiol** 1990 Jan;22(1):83–97

Effects of nicotinic acid and mepacrine on fatty acid accumulation and myocardial damage during ischemia and reperfusion. van Bilsen M, et al. **J Mol Cell Cardiol** 1990 Feb;22(2):155–63

An in vitro model of myocardial ischemia utilizing isolated adult rat myocytes. Vander Heide RS, et al. **J Mol Cell Cardiol** 1990 Feb;22(2):165–81

Interstitial purine metabolites during regional myocardial ischemia. Dorheim TA, et al. **J Surg Res** 1990 May; 48(5):491–7

Augmenting intracellular adenosine improves myocardial recovery. Bolling SF, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):469–74

Changes in myocardial high–energy phosphate stores and carbohydrate metabolism during intermittent aortic crossclamping in dogs on cardiopulmonary bypass at 34 degrees and 25 degrees C. van der Veen FH, et al. **J Thorac Cardiovasc Surg** 1990 Sep;100(3):389–99

Oxygen–derived free radicals related injury in the heart during ischemia and reperfusion. Kobayashi A, et al. **Jpn Circ J** 1989 Sep;53(9):1122–31

Myocardial non–esterified fatty acids during normoxia and ischemia in Langendorff and working rat hearts. Nasa Y, et al. **Jpn J Pharmacol** 1990 May;53(1):129–33

Increase in plasma digitalis–like activity during percutaneous transluminal coronary angioplasty in patients with coronary stenosis. Delva P, et al. **Life Sci** 1990;47(5):385–9

Mechanism of lysophosphatidylcholine accumulation in the ischemic canine heart. Mock T, et al. **Lipids** 1990 Jul; 25(7):357–62

Epicardial and endocardial localized 31P magnetic resonance spectroscopy: evidence for metabolic heterogeneity during regional ischemia. Gober JR, et al. **Magn Reson Med** 1990 Feb;13(2):204–15

Influence of global ischemia on intracellular sodium in the perfused rat heart. Malloy CR, et al. **Magn Reson Med** 1990 Jul;15(1):33–44

Heterotopic transplanted rat heart: a model for in vivo determination of phosphorus metabolites during ischemia and reperfusion. Rozenman Y, et al. **Magn Reson Med** 1990 Mar;13(3):450–7

Recovery of postischemic myocardial ATP levels and hexosemonophosphate shunt activity. Mahoney JR Jr. **Med Hypotheses** 1990 Jan;31(1):21–3

Regulation of intracellular pH in the myocardium; relevance to pathology. Poole–Wilson PA. **Mol Cell Biochem** 1989 Sep 7;89(2):151–5 (28 ref.)

Propranolol inhibits nonexocytotic noradrenaline release in myocardial ischemia. Richardt G, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan–Feb; 341(1–2):50–5

A possible involvement of oxygen free radicals in the development of myocardial acidosis during coronary occlusion in dogs. Sakai K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Aug; 340(2):223–9

Protection by verapamil and nifedipine against ischaemia–induced loss of [3H]–(+)–PN 200–110 binding sites in the rat heart. van Amsterdam FT, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan–Feb; 341(1–2):137–42

Effects of antianginal drugs on myocardial energy metabolism in coronary artery disease. Bagger JP. **Pharmacol Toxicol** 1990;66 Suppl 4:1–31 (227 ref.)

Phospholipid metabolism in the myocardium during ischaemia and reperfusion. Nováková O. **Physiol Bohemoslov** 1990;39(2):113–8 (14 ref.)

Myocardial metabolism in ischemic heart disease: basic principles and application to imaging by positron emission tomography. Camici P, et al. **Prog Cardiovasc Dis** 1989 Nov–Dec;32(3):217–38 (77 ref.)

Ischemia–induced arachidonic acid accumulation and prostanoid release during reperfusion in the isolated rat heart. Engels W, et al. **Prog Clin Biol Res** 1989;301:175–9

Modulation of TXA2 generation of platelets by human lipoproteins. Beitz A, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):57–61

Morphological detection and quantification of lipoprotein(a) deposition in atheromatous lesions of human aorta and coronary arteries. Niendorf A, et al. **Virchows Arch [A]** 1990;417(2):105–11

[Changes in calcium and water content of stunned myocardium and effects of hyperosmotic mannitol in rat heart] Sun JZ, et al. **Sheng Li Hsueh Pao** 1990 Apr; 42(2):155–62 (Eng. Abstr.) **(Chi)**

[Metabolism of phospholipids in the myocardium during ischemia and reperfusion] Nováková O. **Cesk Fysiol** 1989; 38(6):505–9 **(Cze)**

[Biochemical aspects of reoxygenation of the ischemic and hypoxic myocardium (the oxygen and calcium paradox)] Pelouch V. **Cesk Fysiol** 1989;38(6):485–90 **(Cze)**

[Acute myocardial uptake of lidocaine, mexiletine and amiodarone] Nitsch J, et al. **Klin Wochenschr** 1990 Jul 5; 68(13):673–7 (Eng. Abstr.) **(Ger)**

[Metabolism of the ischemic myocardium in non–insulin–dependent diabetes] Uccella R. **Minerva Med** 1989 Sep;80(9):965–8 (Eng. Abstr.) **(Ita)**

[Effect of isoproterenol on regional myocardial oxygen balance in dog hearts with coronary stenosis] Sakata S, et al. **Masui** 1989 Sep;38(9):1171–6 (Eng. Abstr.) **(Jpn)**

[Difference in the effect of halothane on regional oxygen demand–supply relationship depending on the severity of coronary artery stenosis] Toriumi S, et al. **Masui** 1990 Apr; 39(4):430–6 (Eng. Abstr.) **(Jpn)**

[Immunoelectron microscopic studies on the localization of creatine kinase M in normal and ischemic myocardial cells] Otsu N, et al. **Rinsho Byori** 1990 Jul;38(7):773–81 (Eng. Abstr.) **(Jpn)**

[Mechanisms of myocardial damage in the conditions of ischemia and reperfusion] Polańska D, et al. **Przegl Lek** 1989;46(11):771–3 (15 ref.) **(Pol)**

[cAMP, calmodulin–dependent stimulation and stability to proteolysis of Ca 2+ transport in the heart sarcoplasmic reticulum] Antipenko AE, et al. **Biokhimiia** 1989 Dec; 54(12):2023–9 (Eng. Abstr.) **(Rus)**

[Distribution of neurospecific cardioactive protein–hormone complex in the rat body during experimental myocardial ischemia] Gabrielian SK, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):147–8 (Eng. Abstr.) **(Rus)**

[Acid hydrolase activity and cyclic nucleotide contents in the rat heart during myocardial ischemia and postischemic reperfusion] Ivanova TN, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):30–2 (Eng. Abstr.) **(Rus)**

[Role of aminoacyl–tRNA–synthetases in changes in the rate of protein biosynthesis in the rabbit liver during myocardial ischemia] Martinkus ZP, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):563–5 (Eng. Abstr.) **(Rus)**

[Effect of nitrobenzylthioinosine accumulated by the heart in rats and guinea pigs on the release of adenine nucleotide breakdown products during ischemia and reperfusion] Kuz'min AI, et al. **Fiziol Zh** 1989 Jul–Aug;35(4):3–9 (Eng. Abstr.) **(Rus)**

[Apoprotein B: its plasma level and interaction with cultured fibroblasts] Anisimova OIu, et al. **Kardiologiia** 1989 Jul; 29(7):63–7 (Eng. Abstr.) **(Rus)**

[Lipid peroxidation and hyperuricemia in patients with ischemic heart disease] Barats SS, et al. **Kardiologiia** 1990 Apr;30(4):51–4 (Eng. Abstr.) **(Rus)**

[The metabolic changes in myocardial subcellular fractions in the pathogenesis of ischemic heart disease] Bel'chenko DI, et al. **Patol Fiziol Eksp Ter** 1990 Mar–Apr;(2):16–20 (Eng. Abstr.) **(Rus)**

MORTALITY

Inverse correlation between plasma vitamin E and mortality from ischemic heart disease in cross-cultural epidemiology. Gey KF. **Acta Cardiol** 1989;44(6):493–4

The value of ischaemic heart disease vital statistics since 1968 [published erratum appears in Acta Cardiol 1989;44(6):following Table of Contents] Joossens JV, et al. **Acta Cardiol** 1989;44(5):389–405

Nutrition and coronary heart disease. Pedersen JI. **Acta Cardiol** 1989;44(6):468–9

Nutrition and cardiovascular risk: the Finnish experience. Pyörälä K. **Acta Cardiol** 1989;44(6):470–1

The role of hypoglycemic sulphonylureas in arrhythmias contributing to the mortality in acute myocardial ischemia. Koltai MZ, et al. **Acta Physiol Hung** 1990;75 Suppl:175–6

Coronary heart disease in Massachusetts: the years of change (1980–1984). Dalen JE, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):502–12

Geographic variation in sudden coronary death. Gillum RF. **Am Heart J** 1990 Feb;119(2 Pt 1):380–9

Survival determinants in black patients with angiographically defined coronary artery disease. Simmons BE, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):513–9

Left ventricular hypertrophy is associated with worse survival independent of ventricular function and number of coronary arteries severely narrowed. Cooper RS, et al. **Am J Cardiol** 1990 Feb 15;65(7):441–5

Effect of empiric antiarrhythmic therapy in resuscitated out-of-hospital cardiac arrest victims with coronary artery disease. Moosvi AR, et al. **Am J Cardiol** 1990 May 15; 65(18):1192–7

High density lipoprotein cholesterol as a predictor of cardiovascular disease mortality in men and women: the follow-up study of the Lipid Research Clinics Prevalence Study. Jacobs DR Jr, et al. **Am J Epidemiol** 1990 Jan; 131(1):32–47

Outcome of congestive heart failure, dilated cardiomyopathy, hypertrophic hyperkinetic disease, and ischemic heart disease in dialysis patients. Parfrey PS, et al. **Am J Nephrol** 1990;10(3):213–21

The association of corneal arcus with coronary heart disease and cardiovascular disease mortality in the Lipid Research Clinics Mortality Follow-up Study [see comments] Chambless LE, et al. **Am J Public Health** 1990 Oct; 80(10):1200–4 Comment in: Am J Public Health 1990 Oct;80(10):1170–1.

The onset of decline in ischemic heart disease in Italy [letter] LaVecchia C, et al. **Am J Public Health** 1990 Apr;80(4):502

Geographic variation in the onset of decline of male ischemic heart disease mortality in The Netherlands. Mackenbach JP, et al. **Am J Public Health** 1989 Dec;79(12):1621–7

The relationship of smoking cessation to coronary heart disease and lung cancer in the Multiple Risk Factor Intervention Trial (MRFIT). Ockene JK, et al. **Am J Public Health** 1990 Aug;80(8):954–8

Review of the validity of national coronary heart disease mortality rates. Stehbens WE. **Angiology** 1990 Feb; 41(2):85–94 (76 ref.)

Plasma vitamins E and A inversely correlated to mortality from ischemic heart disease in cross-cultural epidemiology. Gey KF, et al. **Ann N Y Acad Sci** 1989;570:268–82

Changes in CHD "risk factors" and cerebrovascular death rates in Iceland 1967–1984. Olafsson O, et al. **Arctic Med Res** 1988;47 Suppl 1:466–8

Cholesterol and coronary heart disease mortality. A 23-year follow-up study of 9902 men in Israel. Goldbourt U, et al. **Arteriosclerosis** 1990 Jul-Aug;10(4):512–9

Cholesterol screening programmes: how much potential benefit? [see comments] Khaw KT, et al. **BMJ** 1989 Sep 2;299(6699):606–7 Comment in: BMJ 1989 Oct 14;299(6705):977–8.

Coffee consumption and death from coronary heart disease in middle aged Norwegian men and women. Tverdal A, et al. **BMJ** 1990 Mar 3;300(6724):566–9

Alcohol and mortality: a review of prospective studies. Shaper AG. **Br J Addict** 1990 Jul;85(7):837–47; discussion 849–61 (41 ref.)

Silent ischaemia and vigorous exercise [letter] Hartvig Jensen T, et al. **Br J Sports Med** 1989 Jun;23(2):133–4

Total and coronary heart disease mortality in relation to major risk factors—Quebec cardiovascular study. Dagenais GR, et al. **Can J Cardiol** 1990 Mar;6(2):59–65

Weighted ventriculographic wall motion score for improved survival prediction in patients with coronary artery disease. Coronary Artery Surgery Study. Schwartz RS, et al. **Cathet Cardiovasc Diagn** 1989 Oct;18(2):79–84

Chest pain and coronary heart disease mortality among older men and women in three communities. LaCroix AZ, et al. **Circulation** 1990 Feb;81(2):437–46

Sex differences and coronary heart disease. A case of comparing apples and pears? [comment] Wingard DL. **Circulation** 1990 May;81(5):1710–2 Comment on: Circulation 1990 May;81(5):1498–506.

Hypertension as a cause of lower than expected death rates from coronary artery disease among blacks. Cooper R, et al. **Clin Cardiol** 1989 Dec;12(12 Suppl 4):IV9–12

Prognosis of male patients with treated hypertension followed over 15 years. Morgan TO, et al. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):211–3

Determinants of survival after surgery for mitral valve regurgitation in patients with and without coronary artery disease. van Herwerden LA, et al. **Eur J Cardiothorac Surg** 1990;4(6):329–35; discussion 336

Similarities and differences between the epidemiology and possible dietary causes of coronary arterial disease and strokes. Seely S. **Int J Cardiol** 1989 Dec;25(3):333–8

Mortality rates in coronary arterial disease [letter; comment] Stehbens WE. **Int J Cardiol** 1989 Oct;25(1):143–4 Comment on: Int J Cardiol 1989 Jan;22(1):1–3.

Papers from a workshop on Trends and Determinants of Coronary Heart Disease Mortality: International Comparisons. Bethesda, Maryland, August 15–16, 1988. **Int J Epidemiol** 1989;18(3 Suppl 1):S1–230

CHD in Australia and New Zealand. Beaglehole R, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S145–8

Trends and determinants of CHD mortality: changes in risk factors and their effects. Blackburn H. **Int J Epidemiol** 1989; 18(3 Suppl 1):S210–5

Trends in CHD mortality, morbidity and risk factor levels from 1960 to 1986: the Minnesota Heart Survey. Burke GL, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S73–81

The relationship of lifestyle to international trends in CHD. Epstein FH. **Int J Epidemiol** 1989;18(3 Suppl 1):S203–9 (10 ref.)

Changing CHD mortality and its causes in Japan during 1955–1985. Hatano S. **Int J Epidemiol** 1989;18(3 Suppl 1):S149–58

The changing pattern of coronary heart disease in Australia. Heathcote CR, et al. **Int J Epidemiol** 1989 Dec;18(4):802–7

Socioeconomic determinants of CHD mortality. Marmot M. **Int J Epidemiol** 1989;18(3 Suppl 1):S196–202

Trends in CHD in Italy. Menotti A. **Int J Epidemiol** 1989; 18(3 Suppl 1):S125–8

Changing patterns of ischaemic heart disease mortality in New Jersey 1968–1982, and the relationship with urbanization. Najem GR, et al. **Int J Epidemiol** 1990 Mar; 19(1):26–31

Therapy for myocardial infarction: effect on trends in coronary disease mortality. Pitt B. **Int J Epidemiol** 1989; 18(3 Suppl 1):S223–7

Causes of the trends and variations in CHD mortality in different countries. Rose G. **Int J Epidemiol** 1989;18(3 Suppl 1):S174–9

Opportunities and pitfalls in international comparisons related to patterns, trends and determinants of CHD mortality. Stamler J. **Int J Epidemiol** 1989;18(3 Suppl 1):S3–18 (72 ref.)

CHD and its risk factors in the People's Republic of China. Tao SC, et al. **Int J Epidemiol** 1989;18(3 Suppl 1):S159–63

Methodological issues in international comparisons. Williams OD. **Int J Epidemiol** 1989;18(3 Suppl 1):S166–8

Task Force I: Determination of prognosis in patients with ischemic heart disease. Pryor DB, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1016–25

Changes in diet and coronary heart disease mortality among social classes in Great Britain. Morgan M, et al. **J Epidemiol Community Health** 1989 Jun;43(2):162–7

Treatment of high blood pressure—the effect on coronary morbidity and mortality. Reid JL, et al. **J Hum Hypertens** 1989 Dec;3 Suppl 2:35–8;discussion 39–40 (22 ref.)

A meta-analysis of mortality and coronary prevention in hypertensive patients treated with beta-receptor blockers. Shinton RA, et al. **J Hum Hypertens** 1990 Jun;4 Suppl 2:31–4

Establishing the effect of antihypertensive treatment on coronary morbidity and mortality. Wilhelmsen L. **J Hum Hypertens** 1989 Dec;3 Suppl 2:41–6; discussion 47 (27 ref.)

Motivation for cholesterol screening [letter; comment] Klevay LM. **J Lab Clin Med** 1990 Feb;115(2):263–4 Comment on: J Lab Clin Med 1989 Aug;114(2):142–51.

The influence of coronary artery disease and bypass grafting on early and late survival after valve replacement for aortic stenosis. Lund O, et al. **J Thorac Cardiovasc Surg** 1990 Sep;100(3):327–37

Mortality rates after 10.5 years for participants in the Multiple Risk Factor Intervention Trial. Findings related to a priori hypotheses of the trial. The Multiple Risk Factor Intervention Trial Research Group [published erratum appears in JAMA 1990 Jun 20;263(23):3151] **JAMA** 1990 Apr 4;263(13):1795–801

Weight in infancy and death from ischaemic heart disease [letter; comment] **Lancet** 1989 Oct 21;2(8669):984–5 Comment on: Lancet 1989 Sep 9;2(8663):577–80.

Nifedipine and coronary artery disease [letter] **Lancet** 1990 Jul 21;336(8708):172–4

Weight in infancy and death from ischaemic heart disease [letter] **Lancet** 1989 Dec 2;2(8675):1335

Interstate differences in trends in coronary mortality and risk factors in Australia. Sexton PT, et al. **Med J Aust** 1990 May 21;152(10):531–4

Smokers more likely to die following a heart attack, Henry Ford reports [news] **Mich Med** 1990 Jul;89(7):10–1

Passive smoking [letter; comment] Hirayama T. **N Z Med J** 1990 Feb 14;103(883):54 Comment on: N Z Med J 1990 Jan 24;103(882):20.

Hyperglycaemia as a cardiovascular risk factor. Fuller JH, et al. **Postgrad Med J** 1989;65 Suppl 1:S30–2

Twenty-five-year mortality from coronary heart disease and its prediction in five cohorts of middle-aged men in Finland, The Netherlands, and Italy. Menotti A, et al. **Prev Med** 1990 May;19(3):270–8

Mortality from diabetes mellitus, ischemic heart disease, and cerebrovascular disease among blacks in a higher income area. Polednak AP. **Public Health Rep** 1990 Jul-Aug; 105(4):393–9

Total mortality in cardiovascular risk factor intervention trials. Faergeman O. **Scand J Clin Lab Invest Suppl** 1990; 199:7–13 (35 ref.)

Concomitants of excess coronary deaths—major risk factor and lifestyle findings from 10,359 men and women in the Scottish Heart Health Study. Smith WC, et al. **Scott Med J** 1989 Dec;34(6):550–5

Trends in coronary heart disease mortality in Singapore. Emmanuel SC. **Singapore Med J** 1989 Feb;30(1):17–23

Regionalizing mortality data: ischaemic heart disease in Norway. Aase A. **Soc Sci Med** 1989;29(8):907–11

International trends in stroke mortality: 1970–1985. Bonita R, et al. **Stroke** 1990 Jul;21(7):989–92

Strategies for risk assessment of ischemic heart disease and total mortality. Bruce RA. **Trans Assoc Life Insur Med Dir Am** 1990;73:53–67 (21 ref.)

[An epidemiological study on coronary sudden death in Beijing] Li N. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):1–4 (Eng. Abstr.) (Chi)

[Decrease in cardiac mortality and changes of risk factor levels. The Osterbro study] Schnohr P, et al. **Ugeskr Laeger** 1990 Apr 30;152(18):1296–9 (Eng. Abstr.) (Dan)

[Are the international changes in coronary mortality since 1968 incidental?] Joossens JV. **Arch Belg** 1989;47(1–4):50–3 (Eng. Abstr.) (Dut)

[Predictive characteristics for early mortality in patients on the waiting list for aortocoronary bypass surgery (letter)] Arnold AE, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10; 134(6):304–5 (Dut)

[Heart infarct in The Netherlands; decreased mortality, increased morbidity and more intervention] Dunning AJ. **Ned Tijdschr Geneeskd** 1990 Mar 24;134(12):573–4 (Dut)

[Regional differences in mortality from ischemic heart disease] Mackenbach JP, et al. **Ned Tijdschr Geneeskd** 1990 Mar 24;134(12):596–601 (Eng. Abstr.) (Dut)

[Predictive characteristics for early mortality in patients on the waiting list for aortocoronary bypass surgery] Suttorp MJ, et al. **Ned Tijdschr Geneeskd** 1989 Dec 9; 133(49):2441–5 (Eng. Abstr.) (Dut)

[Validity of death certificates in the study of ischemic heart diseases] Nuttens MC, et al. **Presse Med** 1990 Jun 16; 19(24):1143–6 (Eng. Abstr.) (Fre)

[Mapping of mortality data—ischemic heart disease among men in Norway 1966–87] Nymoen EH, et al. **Tidsskr Nor Laegeforen** 1990 Jun 20;110(16):2059–62 (Eng. Abstr.) (Nor)

[Sudden death from coronary thrombosis and myocardial infarct correlated with blood alcohol] Hecser L, et al. **Rev Med Interna [Med Interna]** 1989 Nov–Dec; 41(6):551–61 (Eng. Abstr.) (Rum)

[Survival and mortality of patients with ischemic heart disease and concomitant arterial hypertension after conservative and surgical treatment] Go'rkavais OF, et al. **Kardiologiia** 1989 Aug;29(8):94–5 (Rus)

[Catecholamine levels in various regions of the heart in sudden cardiac death] Smirnova EP, et al. **Kardiologiia** 1990 Feb;30(2):98–100 (Rus)

[Sudden death in ischemic heart disease] Dombrovskaia EA, et al. **Sov Med** 1989;(6):51–4 (Rus)

[Study of risk factors in complicated forms of ischemic heart disease in evaluating the prognosis and course of the disease (conservative and surgical treatment] Buslenko NS, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):27–31 (Eng. Abstr.) (Rus)

[Comparison of the trends in mortality from ischemic heart disease and other cardiovascular diseases between Spain and other developed countries, 1970–1980] García-Gil C, et al. **Med Clin (Barc)** 1989 Dec 16;93(20):790–8 (9 ref.) (Spa)

PATHOLOGY

Endomyocardial biopsy in children with Kawasaki disease. Yonesaka S, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Dec;31(6):706–11

Morphologic characteristics and functional significance of focal fibromuscular dysplasia of small coronary arteries. James TN. **Am J Cardiol** 1990 Apr 3;65(14):12G–22G (138 ref.)

Clinical first myocardial infarction: coronary artery disease and old infarcts in 53 consecutive fatal cases from a coronary care unit. Andersen HR, et al. **Am J Cardiovasc Pathol** 1989;2(4):315–9

Early morphologic changes in cat heart muscle cells after acute coronary artery occlusion. Greve G, et al. **Am J Pathol** 1990 Feb;136(2):273–83

Effect of ischemic zone size on nonischemic zone function. Aversano T, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1786–95

Wavefront myocyte injury and relationship to function in right ventricular ischemia. Spinale FG, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H292–304

Pathology of transluminal balloon angioplasty used in the treatment of coronary heart disease. Waller BF. **Cardiol Clin** 1989 Nov;7(4):749–70 (60 ref.)

Accelerated coronary atherosclerosis in cardiac transplantation. Eich DM, et al. **Cardiovasc Clin** 1990; 20(2):199–211 (34 ref.)

Myocardial stiffness and reparative fibrosis following coronary embolisation in the rat. Carroll EP, et al. **Cardiovasc Res** 1989 Aug;23(8):655–61

Quantitative ultrasonic assessment of normal and ischaemic myocardium with an acoustic microscope: relationship to integrated backscatter. Sagar KB, et al. **Cardiovasc Res** 1990 Jun;24(6):447–55

A 22–year–old woman with palpitation, shortness of breath and cough for five months and aggravation of symptoms for four days [clinical conference] **Chin Med J [Engl]** 1989 Sep;102(9):726–32

Endothelium and myocardial protecting actions of taprostene, a stable prostacyclin analogue, after acute myocardial ischemia and reperfusion in cats. Johnson G 3d, et al. **Circ Res** 1990 May;66(5):1362–70

Quantification and validation of left ventricular wall thickening by a three–dimensional volume element magnetic resonance imaging approach. Beyar R, et al. **Circulation** 1990 Jan;81(1):297–307

A macro and micro view of coronary vascular insult in ischemic heart disease. Davies MJ. **Circulation** 1990 Sep; 82(3 Suppl):II38–46 (60 ref.)

Does reperfusion extend necrosis? A study in a single territory of myocardial ischemia—half reperfused and half not reperfused [see comments] Ganz W, et al. **Circulation** 1990 Sep;82(3):1020–33 Comment in: Circulation 1990 Sep;82(3):1070–2.

Quantification of area at risk during coronary occlusion and degree of myocardial salvage after reperfusion with technetium–99m methoxyisobutyl isonitrile. Sinusas AJ, et al. **Circulation** 1990 Oct;82(4):1424–37

Anatomic substrate differences between black and white victims of sudden cardiac death: hypertension, coronary artery disease, or both? Clark LT. **Clin Cardiol** 1989 Dec; 12(12 Suppl 4):IV13–7

Coronary arterial morphology 10 years after "endarterectomy". **Kragel AH, et al. Clin Cardiol** 1990 Mar;13(3):224–6

Topography of atherosclerotic coronary artery disease. Waller BF. **Clin Cardiol** 1990 Jun;13(6):435–42 (83 ref.)

Intimal proliferation in coronary arteries of normolipidaemic pigs with a fixed stenosis: the effects of fish oil. Verdouw PD, et al. **Eur Heart J** 1989 Nov;10 Suppl F:168–72

Relationship between sarcolemmal damage and appearance of amorphous matrix densities in mitochondria following occlusion of coronary artery in rats. Nomoto K, et al. **Exp Mol Pathol** 1989 Dec;51(3):231–42

Induction of fine structural alteration in cardiac Purkinje cells by ischaemic metabolites depends on oxygen tension. Armiger LC, et al. **Exp Pathol** 1990;38(2):109–18

Screening of myocardial contraction bands: a comparison between two histological staining methods. Ståhl E. **Forensic Sci Int** 1990 Mar;45(1–2):151–7

Congestive heart failure due to coronary artery disease without myocardial infarction: clinicopathologic description of an unusual cardiomyopathy. Atkinson JB, et al. **Hum Pathol** 1989 Dec;20(12):1155–62

Is the prevalence of severe stenoses of left circumflex different from that of the right coronary artery? García–Rubira JC, et al. **Int J Cardiol** 1990 Jan;26(1):114–5

Response of rat myocardial mast cells to experimental ischemia. Krüger PG, et al. **J Exp Pathol** 1990 Spring; 5(1):29–38

Ultrastructural correlates of ischaemic contracture during global subtotal ischaemia in the rat heart. Harper IS, et al. **J Exp Pathol (Oxford)** 1990 Apr;71(2):257–68

The spectrum of coronary artery pathologic findings in human cardiac allografts. Johnson DE, et al. **J Heart Transplant** 1989 Sep–Oct;8(5):349–59

Pathologic features in long–term cardiac allografts. Pucci AM, et al. **J Heart Transplant** 1990 Jul–Aug;9(4):339–45

Detection of mitochondrial membrane damages in myocardial ischemia with ESR spin labeling technique. Shin G, et al. **J Mol Cell Cardiol** 1989 Oct;21(10):1029–36

Invited letter concerning: assessment of mitochondrial damage in ischemia [letter; comment] VanWinkle WB. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 1):796–7 Comment on: J Thorac Cardiovasc Surg 1989 Jul;98(1):112–26.

Restenosis after percutaneous transluminal coronary angioplasty—a histopathological study using autopsied hearts. Morimoto S, et al. **Jpn Circ J** 1990 Jan;54(1):43–56

Silent myocardial ischemia in the aged: a retrospective study from the evaluation of necropsy hearts. Ohkawa S, et al. **Jpn Circ J** 1989 Nov;53(11):1414–8

Stenotic lesions and length of the left main coronary artery in the aged. Ohkawa S, et al. **Jpn Heart J** 1989 Nov; 30(6):779–88

Influence of plaque configuration and stress distribution on fissuring of coronary atherosclerotic plaques [see comments] Richardson PD, et al. **Lancet** 1989 Oct 21; 2(8669):941–4 Comment in: Lancet 1989 Dec 16;2(8677):1462–3.

Coronary heart disease: the significance of coronary pathology in infancy and the role of mitogens such as vitamin D. Davies H. **Med Hypotheses** 1989 Nov; 30(3):179–85 (53 ref.)

Medico–legal problems of ischaemic heart disease and myocardial infarction. al–Alousi LM. **Med Sci Law** 1990 Jan;30(1):67–87

Sudden death in an alcoholic with intramyocardial small vessel disease. Burns J, et al. **Med Sci Law** 1990 Apr; 30(2):106–8

Discrepancies between myocardial blood flow and fiber shortening in the ischemic border zone as assessed with video mapping of epicardial deformation. Prinzen FW, et al. **Pflugers Arch** 1989 Nov;415(2):220–9

Relationship between depletion of high–energy phosphate compounds and lethal ischemic myocardial cell injury. Lowe JE, et al. **Surg Forum** 1978;29:247–50

Ultrasonic myocardial integrated backscatter and myocardial wall thickness in animal experiments. Rijsterborgh H, et al. **Ultrasound Med Biol** 1990;16(1):29–36

Ultrastructural findings in hearts with regional ischaemia. Greve G. **Virchows Arch [A]** 1990;417(1):1–3

The surface to volume ratio of mitochondria, a suitable parameter for evaluating mitochondrial swelling. Correlations during the course of myocardial global ischaemia. Schmiedl A, et al. **Virchows Arch [A]** 1990; 416(4):305–15

Ultrastructural effects induced by global ischaemia on the AV node compared with the working myocardium. A qualitative and morphometric investigation on the canine heart. Schnabel PA, et al. **Virchows Arch [A]** 1990; 416(4):317–28

[The etiopathogenesis of infantile coronary sclerosis in so–called Kawasaki syndrome] Althoff H. **Pathologe** 1990 Jan;11(1):41–7 **(Ger)**

[Angioscopy of the coronary vessels] Wendt T, et al. **Versicherungsmedizin** 1990 Jun 1;42(3):83–8 (35 ref.) (Eng. Abstr.) **(Ger)**

[Calcium determination, enzyme biochemical and electron microscopy studies of saphenous veins in patients with coronary sclerosis or varicose veins] Seydewitz V, et al. **Z Gesamte Inn Med** 1990 Feb 15;45(4):96–100 (Eng. Abstr.) **(Ger)**

[Myocardial catecholamine content in heart failure—I: Regional distribution in explanted hearts. Comparison between dilated cardiomyopathy and coronary heart disease] Regitz V, et al. **Z Kardiol** 1989 Dec;78(12):751–8 (Eng. Abstr.) **(Ger)**

[Myocardial catecholamine content in heart failure—II: Measurement in endomyocardial biopsies, reference systems, normal values] Regitz V, et al. **Z Kardiol** 1989 Dec;78(12):759–63 (Eng. Abstr.) **(Ger)**

[Chest pain, cough associated with pain, loss of consciousness (clinical conference)] **Harefuah** 1989 Nov 1;117(9):280–3 **(Heb)**

[Clinical picture and background for progression of peripheral arteriosclerosis in Japanese patients with coronary artery disease] Takita T. **Nippon Ika Daigaku Zasshi** 1990 Apr;57(2):147–59 (Eng. Abstr.) **(Jpn)**

[The heart and diabetes. An anatomo–clinical study] da Silva LH, et al. **Arq Bras Cardiol** 1989 Aug;53(2):105–13 (81 ref.) (Eng. Abstr.) **(Por)**

[Morphofunctional characteristics of the myocardium and regional lymph nodes of the heart in experimental myocardial ischemia under the effect of radon water on the body] Bikbulatov ZT, et al. **Arkh Anat Gistol Embriol** 1990 Mar;98(3):59–64 (Eng. Abstr.) **(Rus)**

[Effect of vascular factors and aging on the ultrastructure of neurons of the human cerebral cortex] Frumkina LE, et al. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):5–12 (Eng. Abstr.) **(Rus)**

[Status of the adrenal medulla in various types of sudden cardiac death] Kargina–Terent'eva RA. **Arkh Patol** 1989; 51(6):32–6 (Eng. Abstr.) **(Rus)**

[Ultrastructural features of heart insufficiency and its correction during the post–asphyxia period] Eskunov PN, et al. **Biull Eksp Biol Med** 1990 Jan;109(1):72–4 (Eng. Abstr.) **(Rus)**

[Morphological study of the damaged myocardium in autopsies with previous ECG and blood enzyme test evidence of various clinical forms of ischemic heart disease during exacerbation phase] Makarovskiĭ VV, et al. **Kardiologiia** 1989 Dec;29(12):51–7 (Eng. Abstr.) **(Rus)**

[Phenomenon of adaptive stabilization of cardiac structures and their protection] Meerson FZ. **Kardiologiia** 1990 Mar; 30(3):6–12 (Eng. Abstr.) **(Rus)**

[Ultrastructure of myocardial capillaries in chronic ischemic heart disease] Shereme'teva GF, et al. **Kardiologiia** 1989 Aug;29(8):62–5 (Eng. Abstr.) **(Rus)**

[Morphological aspects of the development and course of coronary atherosclerosis] Zhdanov VS. **Kardiologiia** 1989 Nov;29(11):43–6 (Eng. Abstr.) **(Rus)**

[The structural bases of heart failure in ischemic heart disease] Grigor'eva NN, et al. **Vrach Delo** 1990 Feb;(2):22–4 (Eng. Abstr.) **(Rus)**

[Morphologic characteristics of the conduction system in ischemic heart disease] Vorob'eva LR, et al. **Vrach Delo** 1990 Mar;(3):47–9 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Safety of rapid administration of flumazenil in patients with ischaemic heart disease. Croughwell ND, et al. **Acta Anaesthesiol Scand Suppl** 1990;92:55–8; discussion 78

Evaluation of left ventricular function by echo–apex tracings. Khoór S, et al. **Acta Cardiol** 1990;45(2):101–6

Value of Doppler echocardiography for the evaluation of left ventricular diastolic function at rest and after exercise in patients with coronary artery disease. Krzemińska–Pakuła M, et al. **Acta Cardiol** 1990;45(2):121–4

Hormonal and autonomic reactions to exercise in elderly healthy subjects and patients with ischemic heart disease. Korkushko OV, et al. **Acta Clin Belg** 1990;45(3):164–75

Inotropic response of "stunned" myocardium induced by dopamine in dogs. Seres T, et al. **Acta Physiol Hung** 1990; 75 Suppl:257–8

Effects of alpha–1 adrenergic blockade on regional flow in the ischemic heart. Macho P, et al. **Acta Physiol Pharmacol Latinoam** 1988;38(3):319–27

Diastolic dysfunction of the left ventricle: importance to the clinician. Gaasch WH. **Adv Intern Med** 1990;35:311–40 (175 ref.)

Circadian variation in myocardial ischemia: the 24–hour antianginal effect of amlodipine. Proceedings of a symposium. Monte Carlo, Monaco, April 7, 1989. **Am Heart J** 1989 Nov;118(5 Pt 2):1083–140

Progression of coronary disease [letter; comment] Amponsah A. **Am Heart J** 1989 Dec;118(6):1355–6 Comment on: Am Heart J 1989 Feb;117(2):296–305.

CAD progression criteria [letter; comment] Barth JD. **Am Heart J** 1989 Dec;118(6):1356–7 Comment on: Am Heart J 1989 Feb;117(2):296–305.

Myocardial hibernation and "embalmment". Bashour TT, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):706–8

Ethanol–induced coronary vasodilation in patients with and without coronary artery disease. Cigarroa RG, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):254–9

Clinical and electrophysiologic findings in acute ischemic intraHisian bundle–branch block. Cortadellas J, et al. **Am Heart J** 1990 Jan;119(1):23–9

Hibernating myocardium [letter; comment] Diamond GA. **Am Heart J** 1989 Dec;118(6):1361 Comment on: Am Heart J 1989 Jan;117(1):211–21.

Silent myocardial ischemia. Droste C, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1087–92 (33 ref.)

Circadian patterns of myocardial ischemia. Fox K, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1084–6; discussion 1086–7 (16 ref.)

Transient pulsus alternans during acute myocardial ischemia and its resolution following beta–adrenergic blockade. Giudici MC, et al. **Am Heart J** 1990 Apr;119(4):960–2

The effects of atrial pacing on the signal–averaged electrocardiogram in patients with coronary artery disease. Greenspon AJ, et al. **Am Heart J** 1990 Jan;119(1):29–34

Noninvasive detection of exercise–induced markedly elevated left ventricular filling pressure by pulsed Doppler echocardiography in patients with coronary artery disease. Iwase M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):947–54

The effect of coronary artery lesions on the relationship between coronary perfusion pressure and myocardial blood flow during cardiopulmonary resuscitation in pigs. Kern KB, et al. **Am Heart J** 1990 Aug;120(2):324–33

Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients. Kern MJ, et al. **Am Heart J** 1990 Jan;119(1):47–54

Beat–to–beat evaluation of cardiac function during recovery from upright bicycle exercise in patients with coronary artery disease. Koike A, et al. **Am Heart J** 1990 Aug; 120(2):316–23

Left ventricular diastolic filling in coronary artery disease [letter; comment] Masuyama T. **Am Heart J** 1989 Dec; 118(6):1357–8 Comment on: Am Heart J 1989 Apr;117(4):870–5.

New coronary artery disease index based on exercise–induced QRS changes. Michaelides AP, et al. **Am Heart J** 1990 Aug;120(2):292–302

Aging and pain perception in ischemic heart disease. Miller PF, et al. **Am Heart J** 1990 Jul;120(1):22–30

Mechanisms of ischemia in coronary artery disease: spontaneous decrease in coronary blood supply. Morris JJ Jr. **Am Heart J** 1990 Sep;120(3):746–56; discussion 769–72 (40 ref.)

Transmural gradients of coronary flow reserve with physiologically and morphometrically defined stenoses in dogs. Nohara R, et al. **Am Heart J** 1989 Dec;118(6):1167–75

Clinical implications of exercise–induced chest pain: comparison of patients with and without pathologic Q waves in coronary artery disease. Ozawa T, et al. **Am Heart J** 1990 Sep;120(3):550–4

Mechanisms of pain perception in patients with silent myocardial ischemia. Sheps DS, et al. **Am Heart J** 1990 Apr;119(4):983–7 (46 ref.)

Circadian rhythm of angina: similarity to circadian rhythms of myocardial infarction, ischemic ST segment depression, and sudden cardiac death. The Amlodipine Angina Study Group. Taylor CR, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1098–9

The effects of diltiazem on cardiac function in silent ischemia after myocardial infarction. van der Wall EE, et al. **Am Heart J** 1990 Oct;118(4):655–61

The role of exercise–induced silent myocardial ischemia in patients with abnormal left ventricular function. A report from the Coronary Artery Surgery Study (CASS) registry. Weiner DA, et al. **Am Heart J** 1989 Oct;118(4):649–54

Impaired relationship between Doppler echocardiographic parameters of diastolic function and left ventricular filling pressure during acute ischemia. Werner GS, et al. **Am Heart J** 1990 Jul;120(1):63–72

"Ischemic" ST–segment changes during the pericatheterization period in men with angiographically confirmed coronary artery disease Bauerlein EJ, et al.

Am J Cardiol 1990 Jul 15;66(2):225–7

Effects of intravenous isradipine on left ventricular performance during rapid atrial pacing in coronary artery disease. Bedotto JB, et al. **Am J Cardiol** 1990 Jan 15; 65(3):189–94

Effects of left ventricular preload and afterload on ascending aortic blood velocity and acceleration in coronary artery disease. Bedotto JB, et al. **Am J Cardiol** 1989 Oct 15; 64(14):856–9

Autonomic nervous system activity during myocardial ischemia in man estimated by power spectral analysis of heart period variability. The Multicenter Study of Silent Myocardial Ischemia Investigators. Bigger JT Jr, et al. **Am J Cardiol** 1990 Aug 15;66(4):497–8

Prognosis in patients with a strongly positive exercise electrocardiogram. Bogaty P, et al. **Am J Cardiol** 1989 Dec 1;64(19):1284–8

Transmural ventricular activation during consecutive cycles of sustained ventricular tachycardia associated with coronary artery disease. Branyas NA, et al. **Am J Cardiol** 1990 Apr 1;65(13):861–7

Effects of exercise on the signal-averaged electrocardiogram in coronary artery disease. Caref EB, et al. **Am J Cardiol** 1990 Jul 1;66(1):54–8

Protection of regional mechanics and mitochondrial oxidative phosphorylation by amlodipine in transiently ischemic myocardium. Duniap ED, et al. **Am J Cardiol** 1989 Nov 7;64(17):84I–91I; discussion 91I–93I

High-density lipoprotein cholesterol levels as a marker of reverse cholesterol transport. Gwynne JT. **Am J Cardiol** 1989 Oct 3;64(13):10G–17G (49 ref.)

Circadian distribution of the characteristics of ischemic episodes in patients with stable coronary artery disease. Hausmann D, et al. **Am J Cardiol** 1990 Sep 15;66(7):668–72

Silent myocardial ischemia as a potential link between lack of premonitoring symptoms and increased risk of cardiac arrest during physical stress. Hoberg E, et al. **Am J Cardiol** 1990 Mar 1;65(9):583–9

Role of previous angina pectoris and collateral flow to preserve left ventricular function in the presence or absence of myocardial infarction in isolated total occlusion of the left anterior descending coronary artery. Juillière Y, et al. **Am J Cardiol** 1990 Feb 1;65(5):277–81

Circadian variation in ventricular electrical instability associated with coronary artery disease. McClelland J, et al. **Am J Cardiol** 1990 Jun 1;65(20):1351–7

Dobutamine and improvement of regional and global left ventricular function in coronary artery disease. Movahed A, et al. **Am J Cardiol** 1990 Aug 1;66(3):375–7

Computer-based implementation of the ST-segment/heart rate slope. Okin PM, et al. **Am J Cardiol** 1989 Oct 15; 64(14):926–30

Ability of left ventricular stress-shortening relations, end-systolic stress/volume ratio and indirect indexes to detect severe contractile failure in ischemic or idiopathic dilated cardiomyopathy. Roman MJ, et al. **Am J Cardiol** 1989 Dec 1;64(19):1338–43

Long-term prognosis of transient acute myocardial ischemia at rest. Severi S, et al. **Am J Cardiol** 1989 Oct 15; 64(14):889–95

Effect of Type A behavior on exercise test outcome in coronary artery disease. Siegel WC, et al. **Am J Cardiol** 1990 Jul 15;66(2):179–82

Left atrial function in acute transient left ventricular ischemia produced during percutaneous transluminal coronary angioplasty of the left anterior descending coronary artery. Sigwart U, et al. **Am J Cardiol** 1990 Feb 1;65(5):282–6

Significance of coronary circulation in hypertensive heart disease for development and prevention of heart failure. Strauer BE. **Am J Cardiol** 1990 Apr 3;65(14):34G–41G

Prevalence, time course and malignancy of ventricular arrhythmia during spontaneous ischemic ST-segment depression. Turitto G, et al. **Am J Cardiol** 1989 Oct 15; 64(14):900–4

The divergent recovery of ST-segment depression and radionuclide angiographic indicators of myocardial ischemia. Vatterott PJ, et al. **Am J Cardiol** 1990 Aug 1; 66(3):296–301

Comparison of right ventricular impedance, pulse pressure and maximal dP/dt for determination of hemodynamic stability of ventricular arrhythmias associated with coronary artery disease. Wood MA, et al. **Am J Cardiol** 1990 Sep 1;66(5):575–82

Microvascular occlusions promote coronary collateral growth. Chilian WM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1103–11

Autonomic response to coronary occlusion in animals susceptible to ventricular fibrillation. Collins MN, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1886–94

Effects of acute coronary artery occlusion on the coronary microcirculation. Dellsperger KC, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H909–16

Transient hypothermic reperfusion and postischemic recovery in isolated rat heart. Kempsford RD, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H879–88

Mechanism of ischemic contracture in ferret hearts: relative roles of [Ca2+]i elevation and ATP depletion. Koretsune Y, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):H9–16

TxA2 inhibition and ischemia-induced loss of myocardial function and reactive hyperemia. Mehta JL, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1402–8

Protective effects of 5-(N,N-dimethyl)amiloride on ischemia-reperfusion injury in hearts. Meng HP, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1615–9

Differential cardiac sympathetic activity during acute myocardial ischemia. Neely BH, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1534–41

Effects of deafferentation or sequential occlusions on cardiac sympathetic activity during ischemia. Neely BH, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1542–9

Ejection- and isovolumic contraction-phase wall thickening in nonischemic myocardium during coronary occlusion. Ning XH, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H490–9

Arachidonic acid causes postischemic dysfunction in control but not diabetic hearts. Pieper GM. **Am J Physiol** 1990 Apr;258(4 Pt 2):H923–30

Acidification and intracellular sodium ion activity during stimulated myocardial ischemia. Vanheel B, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):C169–79

Placing patients in the queue for coronary revascularization: evidence for practice variations from an expert panel process. Naylor CD, et al. **Am J Public Health** 1990 Oct; 80(10):1246–52

Coronary flow limits right ventricular performance during positive end-expiratory pressure. Schulman DS, et al. **Am Rev Respir Dis** 1990 Jun;141(6):1531–7

Regional myocardial function in the presence of coronary artery stenosis and inotropic intervention: a case for myocardial hibernation? Coetzee A, et al. **Anesth Analg** 1990 Oct;71(4):327–33

Effect of isoflurane on the extent of myocardial necrosis and on systemic hemodynamics, regional myocardial blood flow, and regional myocardial metabolism in dogs after coronary artery occlusion. Davis RF, et al. **Anesth Analg** 1989 Nov;69(5):575–86

Influence of thiopental, etomidate, and propofol on regional myocardial function in the normal and acute ischemic heart segment in dogs. De Hert SG, et al. **Anesth Analg** 1990 Jun;70(6):600–7

Importance of atrial systole to ventricular filling predicted by transesophageal echocardiography. Konstadt SN, et al. **Anesthesiology** 1990 Jun;72(6):971–6

Control of hemodynamics prevents worsening of myocardial ischemia when nitrous oxide is administered to isoflurane-anesthetized dogs. Nathan HJ. **Anesthesiology** 1989 Nov;71(5):686–94

Isoflurane and coronary hemodynamics [published erratum appears in Anesthesiology 1990 Feb;72(2):398] Priebe HJ. **Anesthesiology** 1989 Dec;71(6):960–76 (104 ref.)

Myocardial ischemia in a canine model of pulmonary hypertension and right coronary artery stenosis. Priebe HJ. **Anesthesiology** 1990 Mar;72(3):517–25

Effects of persantin and nitroglycerin on myocardial blood flow during temporary coronary occlusions in dogs. Linder E, et al. **Angiologica** 1967;4(5):225–55

Effect of ischemia on ventricular contractility in patients with coronary artery disease. Spaccavento LJ, et al. **Angiology** 1990 Jun;41(6):486–91

Mechanisms underlying ventricular tachycardia and fibrillation in the ischemic heart: relation to nonlinear dynamics. Pogwizd SM, et al. **Ann N Y Acad Sci** 1990; 591:278–300 (59 ref.)

Mechanical determinants of myocardial blood flow and its distribution. Archie JP Jr. **Ann Thorac Surg** 1975 Jul; 20(1):39–45 (15 ref.)

Effect of circulatory assist devices on stunned myocardium. Bavaria JE, et al. **Ann Thorac Surg** 1990 Jan;49(1):123–8

Myocardial energetics and the postischemic heart [editorial; comment] Burkhoff D. **Ann Thorac Surg** 1990 Apr; 49(4):525–7 Comment on: Ann Thorac Surg 1990 Apr;49(4):543–8; discussion 548–9.

Relationship between total mechanical energy and oxygen consumption in the stunned myocardium [see comments] Furukawa S, et al. **Ann Thorac Surg** 1990 Apr;49(4):543–8; discussion 548–9 Comment in: Ann Thorac Surg 1990 Apr;49(4):525–7.

Free radicals and their involvement during long-term myocardial ischemia and reperfusion. Downey JM. **Annu Rev Physiol** 1990;52:487–504 (92 ref.)

Physiologic and symptomatic responses of cardiac patients to resistance exercise. Faigenbaum AD, et al. **Arch Phys Med Rehabil** 1990 May;71(6):395–8

Effects of cardiac assist on the bulk and regional mechanics of the ischemic left ventricle in dogs. Nakamura T, et al. **Artif Organs** 1990 Feb;14(1):57–68

Protective activity of nifedipine and R 58735 upon damage caused by global ischemia in the guinea pig heart-lung preparation. Boddeke HW, et al. **Basic Res Cardiol** 1989 Sep-Oct;84(5):489–98

The oxygen consumption paradox of "stunned myocardium" in dogs. Dean EN, et al. **Basic Res Cardiol** 1990 Mar-Apr; 85(2):120–31

Microvascular and collateral adaptation in swine hearts following progressive coronary artery stenosis. Görge G, et al. **Basic Res Cardiol** 1989 Sep-Oct;84(5):524–35

Effects of long-term xamoterol therapy on the left ventricular mechanical efficiency in patients with ischemic heart disease. Pouleur H, et al. **Basic Res Cardiol** 1989;84 Suppl 1:157–62

Effect of urapidil on the performance of ischemic myocardium in anesthetized dogs. Schad H, et al. **Basic Res Cardiol** 1990 May-Jun;85(3):270–8

Involvement of lysosome-like particles in the metabolism of endogenous myocardial triglycerides during ischemia/reperfusion. Uptake and degradation of triglycerides by lysosomes isolated from rat heart. Schoonderwoerd K, et al. **Basic Res Cardiol** 1990 Mar-Apr; 85(2):153–63

Antiischemic effects of alinidine in paced isolated rat hearts. Streller I, et al. **Basic Res Cardiol** 1990 Jan-Feb;85(1):71–7

Evaluation of myocardial perfusion in man. Workshop. Capri, April 24/25, 1987. Proceedings. **Bibl Cardiol** 1989; (44):1–202

Effects of psychophysiological activation on coronary flow, cardiac electrophysiology and central hemodynamics in patients with ischemic heart disease. Mazzuero G, et al. **Bibl Cardiol** 1989;(44):47–58; diacussion 58–9

Short-term effects of omega-3 fatty acids on exercise stress test parameters, angina and lipoproteins. Vacek JL, et al. **Biomed Pharmacother** 1989;43(5):375–9 (20 ref.)

The Wedensky effect in the human heart. Castellanos A Jr, et al. **Br Heart J** 1966 Mar;28(2):276–83

Patterns of coronary artery disease in post-infarction ventricular septal rupture. Skehan JD, et al. **Br Heart J** 1989 Oct;62(4):268–72

Contrasting effects of single doses of pindolol and xamoterol on left ventricular diastolic function. Rousseau MF, et al. **Br J Clin Pharmacol** 1989;28 Suppl 1:84S–85S

Pharmacodynamic monitoring during acute intervention in ischaemic heart disease using a new echo-Doppler device. Silke B, et al. **Br J Clin Pharmacol** 1990 Jun;29(6):741–7

Effects of neuropeptide Y and calcitonin gene-related peptide on sheep coronary artery rings under oxygenated, hypoxic and simulated myocardial ischaemic conditions. Kwan YW, et al. **Br J Pharmacol** 1990 Apr;99(4):774–8

Modification of the ischaemic-induced contraction in the sheep circumflex coronary artery by various pharmacological antagonists. Kwan YW, et al. **Br J Pharmacol** 1990 Jul;100(3):407–12

Evaluation of the effect of azapropazone on neutrophil migration in regional myocardial ischaemia/reperfusion injury in rabbits. Mousa SA, et al. **Br J Pharmacol** 1990 Jun;100(2):379–82

Mechanisms underlying the antiarrhythmic properties of beta-adrenoceptor blockade against ischaemia-induced arrhythmias in acutely prepared rats. Paletta MJ, et al. **Br J Pharmacol** 1989 Sep;98(1):87–94

Effects of antiarrhythmic agents classified as class III group on ischaemia-induced myocardial damage in canine hearts. Sano T, et al. **Br J Pharmacol** 1990 Mar;99(3):577–81

Enhanced coronary vasoconstrictor responses to 5-hydroxytryptamine in the presence of a coronary artery stenosis in anaesthetized dogs. Woodman OL. **Br J Pharmacol** 1990 May;100(1):153–7

Sequential noninvasive assessment of left ventricular size, regional wall thickness and function during 3 hours of coronary artery occlusion and reperfusion: differential effects of reflow in dogs with small vs large areas at risk. Haendchen RV, et al. **Braz J Med Biol Res** 1989; 22(10):1195–217

Improvement in wall motion after pindolol: a mechanism for the preservation of left ventricular function in coronary artery disease. Manfroi WC, et al. **Braz J Med Biol Res** 1989;22(7):825–31

Comparison of the haemodynamic effects of SNP and AMP following acute microsphere induced ischaemic ventricular dysfunction. Finegan BA, et al. **Can J Anaesth** 1990 May; 37(4 Pt 2):S149

The effect of lactate infusion on myocardial metabolism and ventricular function following ischemia and cardioplegia. Teoh KH, et al. **Can J Cardiol** 1990 Jan-Feb;6(1):38–46

Acute insulin withdrawal contributes to ischemic heart failure in spontaneously diabetic BB Wistar rats. Lopaschuk GD, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):462–6

Clinical value of the pitch of the third heart sound in ischemic heart disease. Aggio S, et al. **Cardiology** 1990;77(2):86–92

Effects of uncomplicated coronary artery bypass graft surgery on global and regional left ventricular function at rest. Study by equilibrium radionuclide angiocardiography. De Nardo D, et al. **Cardiology** 1989; 76(4):285–92

Central haemodynamic changes during lower body positive pressure in patients with congestive cardiac failure. Bain RJ, et al. **Cardiovasc Res** 1989 Oct;23(10):833–7

Effects of haemorrhage induced hypotension on coronary blood flow in an anaesthetised two vessel canine coronary stenosis-occlusion model. Gascho JA, et al. **Cardiovasc Res** 1990 Mar;24(3):176–81

The differential response of normal and ischaemic Purkinje fibres to clofilium, d-sotalol and bretylium. Gough WB, et al. **Cardiovasc Res** 1989 Jun;23(6):554–9

Effects of heart rate and diltiazem hydrochloride on alternans of ST segment elevation and ventricular arrhythmia during acute myocardial ischaemia in dogs. Hayakawa T, et al. **Cardiovasc Res** 1989 Jun;23(6):520–8

Premature ventricular contractions and reflex sympathetic activation in cats. Lombardi F, et al. **Cardiovasc Res** 1989 Mar;23(3):205–12

Effects of acutely impaired regional function on remote myocardial wall motion and blood flow in the canine left ventricle studied by coronary occlusion and hypoxic perfusion. Ohtsuka S, et al. **Cardiovasc Res** 1990 Jun; 24(6):433–9

Comparative effects of the opioids fentanyl and buprenorphine on ventricular vulnerability during acute coronary artery occlusion. Saini V, et al.

Cardiovasc Res 1989 Dec;23(12):1001–6

Antianginal drugs and relationship between epicardial ST segment depression and moderate regional myocardial blood flow reduction in experimental partial coronary artery occlusion. Timogiannakis GB, et al. Cardiovasc Res 1990 May;24(5):396–403

Reversal of dyskinesis by increased end diastolic segment length in ischaemic-reperfused myocardium. Vinten-Johansen J, et al. Cardiovasc Res 1989 Sep; 23(9):810–9

Importance of myocardial ischaemia for recruitment of coronary collateral circulation in dogs. Yamanishi K, et al. Cardiovasc Res 1990 Apr;24(4):271–7

R- and S-wave amplitude changes with acute anterior transmural myocardial ischemia. Correlations with left ventricular filling pressures. Charlap S, et al. Chest 1990 Mar;97(3):566–71

Circadian influence in cardiovascular disease (Part 1). Valle GA, et al. Chest 1990 Jun;97(6):1453–7

Animal model of coronary artery spasm–coronary thrombosis–acute myocardial infarction. A study on hemodynamics, EKG, coronary angiography, biochemistry and pathology. Jiang YQ, et al. Chin Med J [Engl] 1990 Mar;103(3):233–44

Prolonged impairment of coronary vasodilation after reversible ischemia. Evidence for microvascular "stunning". Bolli R, et al. Circ Res 1990 Aug;67(2):332–43

Passive electrical properties, mechanical activity, and extracellular potassium in arterially perfused and ischemic rabbit ventricular muscle. Effects of calcium entry blockade or hypocalcemia. Cascio WE, et al. Circ Res 1990 Jun; 66(6):1461–73

Ischemia-induced epicardial vasoconstriction. A potential mechanism for distant myocardial ischemia. Chu A, et al. Circ Res 1990 Jun;66(6):1484–90

Nonuniform loss of regional flow reserve during myocardial ischemia in dogs. Coggins DL, et al. Circ Res 1990 Aug; 67(2):253–64

Myocardial hibernation in the ischemic neonatal heart. Downing SE, et al. Circ Res 1990 Mar;66(3):763–72

Canine neutrophil activation by cardiac lymph obtained during reperfusion of ischemic myocardium. Dreyer WJ, et al. Circ Res 1989 Dec;65(6):1751–62

Failure of the cholinergic modulation of norepinephrine release during acute myocardial ischemia in the rat. Du XJ, et al. Circ Res 1990 Apr;66(4):950–6

Heterogeneous changes in epimyocardial microvascular size during graded coronary stenosis. Evidence of the microvascular site for autoregulation. Kanatsuka H, et al. Circ Res 1990 Feb;66(2):389–96

Electrophysiological properties and responses to simulated ischemia in cat ventricular myocytes of endocardial and epicardial origin. Kimura S, et al. Circ Res 1990 Feb; 66(2):469–77

Beneficial effects of alpha 2-adrenoceptor activity on ischemic myocardium during coronary hypoperfusion in dogs. Kitakaze M, et al. Circ Res 1989 Dec;65(6):1632–45

Excitation–contraction coupling in postischemic myocardium. Does failure of activator Ca2+ transients underlie stunning? Kusuoka H, et al. Circ Res 1990 May; 66(5):1268–76

The role of alpha 1- and alpha 2-adrenergic receptors in mediation of coronary vasoconstriction in hypoperfused ischemic myocardium during exercise. Laxson DD, et al. Circ Res 1989 Dec;65(6):1688–97

Spectral analysis of canine epicardial electrogram. Short-term variations in the frequency content induced by myocardial ischemia. Mor-Avi V, et al. Circ Res 1990 Jun; 66(6):1681–91

Glucose flux rate regulates onset of ischemic contracture in globally underperfused rat hearts. Owen P, et al. Circ Res 1990 Feb;66(2):344–54

Protective role of intracoronary fatty acid binding protein in ischemic and reperfused myocardium. Srimani BN, et al. Circ Res 1990 Jun;66(6):1535–43

Role of intracellular Na+ in Ca2+ overload and depressed recovery of ventricular function of reperfused ischemic rat hearts. Possible involvement of H+-Na+ and Na+-Ca2+ exchange. Tani M, et al. Circ Res 1989 Oct; 65(4):1045–56

Comparative effects of pacing-induced and flow-limited ischemia on left ventricular function [see comments] Applegate RJ, et al. Circulation 1990 Apr;81(4):1380–92 Comment in: Circulation 1990 Apr;81(4):1436–9.

Effect of coronary stenosis on myocardial blood flow during exercise in the chronically pressure-overloaded hypertrophied left ventricle. Bache RJ, et al. Circulation 1990 Jun;81(6):1967–73

Mechanical dysfunction of the heart during and after ischemia. Unraveling the causes [comment] Barry WH. Circulation 1990 Aug;82(2):652–4 Comment on: Circulation 1990 Aug;82(2):528–35.

Regional left ventricular nonuniformity. Effects on left ventricular diastolic function in ischemic heart disease, hypertrophic cardiomyopathy, and the normal heart. Bonow RO. Circulation 1990 Feb;81(2 Suppl):III54–65 (131 ref.)

Effect of intravenous propranolol on coronary vasomotion at rest and during dynamic exercise in patients with coronary artery disease. Bortone AS, et al. Circulation 1990 Apr;81(4):1225–35

Dietary fish oil accelerates the response to coronary thrombolysis with tissue-type plasminogen activator. Evidence for a modest platelet inhibitory effect in vivo. Braden GA, et al. Circulation 1990 Jul;82(1):178–87

Relations of the myocardial imaging agents 99mTc-MIBI and 201T1 to myocardial blood flow in a canine model of myocardial ischemic insult. Canby RC, et al. Circulation 1990 Jan;81(1):289–96

Physiological early diastolic intraventricular pressure gradient is lost during acute myocardial ischemia. Courtois M, et al. Circulation 1990 May;81(5):1688–96

Pathophysiology of silent myocardial ischemia during daily life. Hemodynamic evaluation by simultaneous electrocardiographic and blood pressure monitoring [see comments] Deedwania PC, et al. Circulation 1990 Oct; 82(4):1296–304 Comment in: Circulation 1990 Oct;82(4):1528–30.

Effects of graded reductions in coronary perfusion pressure on the diastolic pressure–segment length relation and the rate of isovolumic relaxation in the resting conscious dog. Farhi ER, et al. Circulation 1989 Nov;80(5):1458–68

Myocardial lactate release during ischemia in swine. Relation to regional blood flow. Guth BD, et al. Circulation 1990 Jun;81(6):1948–58

Decreased magnitude of heart rate spectral components in coronary artery disease. Its relation to angiographic severity. Hayano J, et al. Circulation 1990 Apr; 81(4):1217–24

Alpha-adrenergic mechanisms in myocardial ischemia. Heusch G. Circulation 1990 Jan;81(1):1–13 (117 ref.)

Effect of asynchrony on left ventricular relaxation. Heyndrickx GR, et al. Circulation 1990 Feb;81(2 Suppl):III41–7

Thrombolytic activity of a novel plasminogen activator, LY210825, compared with recombinant tissue-type plasminogen activator in a canine model of coronary artery thrombosis [see comments] Jackson CV, et al. Circulation 1990 Sep;82(3):930–40 Comment in: Circulation 1990 Sep;82(3):1062–3.

Development of cell injury in sustained acute ischemia. Jennings RB, et al. Circulation 1990 Sep;82(3 Suppl):II2–12

Determinants of end-systolic pressure–volume relations during acute regional ischemia in situ. Kass DA, et al. Circulation 1989 Dec;80(6):1783–94

Detecting abnormalities in left ventricular function during exercise by respiratory measurement. Koike A, et al. Circulation 1989 Dec;80(6):1737–46

Myocardial protection with preconditioning. Li GC, et al. Circulation 1990 Aug;82(2):609–19

Altered myocardial perfusion in patients with angina pectoris or silent ischemia during exercise as assessed by quantitative thallium-201 single-photon emission computed tomography. Mahmarian JJ, et al. Circulation 1990 Oct; 82(4):1305–15

The diastolic hyperemic flow versus pressure relation. A new index of coronary stenosis severity and flow reserve. Mancini GB, et al. Circulation 1989 Oct;80(4):941–50

Coronary artery spasm and vasoconstriction. The case for a distinction. Maseri A, et al. Circulation 1990 Jun; 81(6):1983–91 (75 ref.)

Changes of left ventricular diastolic function in exercising dogs without and with ischemia. Miyazaki S, et al. Circulation 1990 Mar;81(3):1058–70

Upward shift and outward bulge. Divergent myocardial effects of pacing angina and brief coronary occlusion [comment] Paulus WJ. Circulation 1990 Apr;81(4):1436–9 Comment on: Circulation 1990 Apr;81(4):1380–92.

Alteration of endothelium-dependent distribution of myocardial blood flow after coronary occlusion and reperfusion. Pelc LR, et al. Circulation 1990 Jun; 81(6):1928–37

Relation of diastolic function and exercise capacity in ischemic left ventricular dysfunction. Role of beta-agonists and beta-antagonists. Pouleur H, et al. Circulation 1990 Aug;82(2 Suppl):I89–96

Ischemia-reperfusion impairs endothelium-dependent relaxation of coronary microvessels but does not affect large arteries. Quillen JE, et al. Circulation 1990 Aug; 82(2):586–94

Endothelial modulation of the coronary vasculature in vessels perfused via mature collaterals. Sellke FW, et al. Circulation 1990 Jun;81(6):1938–47

Acceleration of recombinant tissue-type plasminogen activator-induced thrombolysis and prevention of reocclusion by the combination of heparin and the Arg-Gly-Asp-containing peptide bitistatin in a canine model of coronary thrombosis. Shebuski RJ, et al. Circulation 1990 Jul;82(1):169–77

Unraveling the mechanisms of ambulatory ischemia. How and why [comment] Stone PH. Circulation 1990 Oct; 82(4):1528–30 Comment on: Circulation 1990 Oct;82(4):1296–304.

Intermittent perfusion of ischemic myocardium. Possible mechanisms of protective effects on mechanical function in isolated rat heart. Tani M, et al. Circulation 1990 Aug; 82(2):536–48

Reflex responses to myocardial ischemia and reperfusion. Role of prostaglandins. Thames MD, et al. Circulation 1989 Dec;80(6):1878–85

Prolonged duration of myocardial ischemia in patients with coronary heart disease and impaired cardiopulmonary baroreceptor sensitivity. Trimarco B, et al. Circulation 1990 Jun;81(6):1792–802

Time course of endothelial dysfunction and myocardial injury during myocardial ischemia and reperfusion in the cat. Tsao PS, et al. Circulation 1990 Oct;82(4):1402–12

Influence of myocardial ischemia and infarction on autonomic innervation of heart. Zipes DP. Circulation 1990 Oct;82(4):1095–105 (77 ref.)

The slope of the end-systolic pressure–volume relationship compared with the global end-systolic pressure–volume ratio in humans. Abboud L, et al. Clin Cardiol 1990 Jan; 13(1):19–26

Role of transmitral blood flow velocity by Doppler echocardiography in the evaluation of coronary artery disease. Brunckhorst C, et al. Clin Cardiol 1990 Feb; 13(2):108–14

An update to silent myocardial ischemia: pathophysiological, diagnostic, and therapeutic approaches. Fu LX, et al. Clin Cardiol 1990 Jul;13(7):452–6 (52 ref.)

Recreational swimming in CHD patients and healthy control subjects in relation to left heart function. Lehmann M, et al. Clin Cardiol 1990 Aug;13(8):547–54

Elevated pain threshold in patients with effort-induced angina pectoris and asymptomatic myocardial ischemia during exercise test. Pedersen F, et al. Clin Cardiol 1989 Nov;12(11):639–42

Thrombosis and anticoagulation therapy in coronary ectasia. Perlman PE, et al. Clin Cardiol 1989 Sep;12(9):541–2

Cardiovascular responses to acute myocardial ischaemia in morphine-dependent rats. Ko WW, et al. Clin Exp Pharmacol Physiol 1988 Jan;15(1):23–31

Regional perfusion in hearts with acute coronary artery occlusion and subsequent beta 2- and alpha 1-adrenergic blockade. Kvitting P, et al. Clin Physiol 1990 Mar; 10(2):155–70

The effect of alpha-tocopherol and Intal on heart capillary bed and lipid peroxide oxidation in experimental necrosis of the rat myocardium. Amatuni VG, et al. Cor Vasa 1989; 31(6):500–7

Platelet aggregation and prostaglandin metabolites in the blood of patients with ischaemic heart disease during antiarrhythmic treatment. Kirichenko LL, et al. Cor Vasa 1989;31(5):355–64

Pulmonary effects of ventilatory pattern following cardiopulmonary bypass. Downs JB, et al. Crit Care Med 1976 Nov-Dec;4(6):295–300

The effect of coronary collateral recruitment on ventricular recovery after brief coronary occlusion in dogs and pigs. Hanan SA, et al. Curr Surg 1990 Jan-Feb;47(1):23–5

Effect of coronary artery disease on parasympathetic cardiovascular reflexes in NIDDM patients. Airaksinen KE, et al. Diabetes Care 1990 Feb;13(2):83–6

Coronary arteriolar vasoconstriction in myocardial ischaemia: coronary vasodilator reserve during ischaemia. Bache RJ, et al. Eur Heart J 1990 Apr;11 Suppl B:5–9

Acute haemodynamic effects of the beta 1-adrenoceptor partial agonist xamoterol at rest and during supine exercise in patients with left ventricular dysfunction due to ischaemic heart disease: a double-blind randomized trial. de Feyter PJ, et al. Eur Heart J 1990 Apr;11 Suppl A:48–9

Effects of diltiazem on postextrasystolic potentiation in coronary heart disease patients. Di Donato M, et al. Eur Heart J 1990 Jul;11(7):656–61

Coronary arteriolar vasoconstriction in myocardial ischaemia. Vasopressin, renin–angiotensin system and ANF. Ertl G, et al. Eur Heart J 1990 Apr;11 Suppl B:53–7

Nocturnal angina in patients with fixed coronary stenosis. Increased coronary vasoconstrictive sensitivity with independence of pacing ischaemic threshold. Figueras J, et al. Eur Heart J 1989 Oct;10(10):903–9

Involvement of leucocytes and leukotrienes in ischaemic dysfunction of the coronary microcirculation. Goldstein RE. Eur Heart J 1990 Apr;11 Suppl B:16–26

Potential role of coronary vasoconstriction in ischaemic heart disease: effect of exercise. Hess OM, et al. Eur Heart J 1990 Apr;11 Suppl B:58–64

Transcutaneous nerve stimulation in patients with coronary arterial disease: haemodynamic and biochemical effects. Kaada B, et al. Eur Heart J 1990 May;11(5):447–53

Poststenotic ischaemic myocardial dysfunction induced by peripheral nociceptive stimulation. Kröger K, et al. Eur Heart J 1989 Nov;10 Suppl F:179–82

Coronary arteriolar vasoconstriction in myocardial ischaemia: reflexes, sympathetic nervous system, catecholamines. Longhurst JC. Eur Heart J 1990 Apr;11 Suppl B:43–52

Vagal heart rate control after percutaneous transluminal coronary angioplasty. Niemelä MJ, et al. Eur Heart J 1990 Apr;11(4):320–2

Haemodynamic alterations during ischaemia induced by dobutamine stress testing. Piérard LA, et al. Eur Heart J 1989 Sep;10(9):783–90

Diastolic dysfunction and myocardial energetics. Pouleur H. Eur Heart J 1990 May;11 Suppl C:30–4 (27 ref.)

Exercise-induced sustained symptomatic ventricular tachycardia: incidence, clinical, angiographic and electrophysiologic characteristics. Rodriguez LM, et al. Eur Heart J 1990 Mar;11(3):225–32

Thromboxane A2 and platelets as mediators of coronary arterial vasoconstriction in myocardial ischaemia. Schrör K. Eur Heart J 1990 Apr;11 Suppl B:27–34 (55 ref.)

The effects of xamoterol and pacing on myocardial blood flow and metabolism in patients with coronary artery disease. Simonsen S. Eur Heart J 1990 Apr;11 Suppl A:61

Pharmacologic effects on coronary microvessels during myocardial ischaemia. Tillmanns H, et al. **Eur Heart J** 1990 Apr;11 Suppl B:10–5

Intraoperative assessment of myocardial revascularisation for the relief of ischaemia using monophasic action potential recordings. Treasure T, et al. **Eur J Cardiothorac Surg** 1988; 2(3):167–71

Responsiveness of sheep isolated coronary artery rings under simulated myocardial ischaemia. Kwan YW, et al. **Eur J Pharmacol** 1989 Sep 1;168(1):31–8

Interactive effects of behavior and reproductive hormones on sex differences in risk for coronary heart disease. Matthews KA. **Health Psychol** 1989;8(4):373–87 (52 ref.)

Diastolic compliance of the left atrium in man: a determinant of preload of the left ventricle. Nagano T, et al. **Heart Vessels** 1989;5(1):25–32

Cardioprotective and antiarrhythmic effects of beta-blockers, propranolol, bisoprolol, and nipradilol in a canine model of regional ischemia. Ogawa T, et al. **Heart Vessels** 1989; 5(1):10–6

Satellite symposium of the 4th International Symposium on Adenosine and Adenine Nucleotides: Regulation of Coronary Blood Flow. May 18–19, 1990, Kobe, Japan. Abstracts. **Heart Vessels Suppl** 1990;4:1–92

Painless myocardial ischaemia and ventricular fibrillation during treadmill stress test. Gupta R. **Indian Heart J** 1989 Jul–Aug;41(4):274–7

A spectral analysis of the high frequency QRS potentials observed during acute myocardial ischemia in dogs. Abboud S, et al. **Int J Cardiol** 1990 Mar;26(3):285–90

Importance of myocardial ischemia for coronary collateral development in conscious dogs. Fujita M, et al. **Int J Cardiol** 1990 May;27(2):179–86

Plasma noradrenaline as an index of sympathetic tone in coronary arterial disease: the confounding influence of clearance of noradrenaline. McCance AJ, et al. **Int J Cardiol** 1990 Mar;26(3):335–42

Coronary alpha-adrenergic tone and contraction of ischemic myocardium in awake dog. Vallance SR, et al. **Int J Cardiol** 1990 Mar;26(3):291–302

Contribution of mechano-electric coupling to ventricular arrhythmias during reduced perfusion. Lab MJ. **Int J Microcirc Clin Exp** 1989 Nov;8(4):433–42

Magnetic resonance spectroscopy of the heart. Overview of studies in animals and man. Higgins CB, et al. **Invest Radiol** 1989 Dec;24(12):962–8 (21 ref.)

Long-term follow-up of patients with silent myocardial ischemia. Arnim TV. **Isr J Med Sci** 1989 Sep;25(9):510–3

Pain mechanisms in symptomatic and silent ischemia. Droste C, et al. **Isr J Med Sci** 1989 Sep;25(9):487–92 (50 ref.)

Treadmill exercise testing and silent myocardial ischemia. Froelicher VF, et al. **Isr J Med Sci** 1989 Sep;25(9):495–502

Effects of transient coronary occlusion: experience with myocardial stunning and preconditioning. Schott RJ, et al. **Isr J Med Sci** 1989 Sep;25(9):479–82

Clinical significance of transient myocardial ischemia in patients with coronary artery disease. Tzivoni D, et al. **Isr J Med Sci** 1989 Sep;25(9):507–10 (29 ref.)

Silent myocardial ischemia during exercise testing: prognostic significance and response to coronary artery bypass surgery. Weiner DA. **Isr J Med Sci** 1989 Sep;25(9):492–5

Seminar on small coronary artery disease: structure and function of small coronary arteries in health and disease—I. Based on papers presented by the WHO/ISFC Task Force. Geneva, Switzerland, June 12, 1989. **J Am Coll Cardiol** 1990 Mar 1;15(3):511–90

Silent myocardial ischemia: practical application of evolving concepts [comment] Amsterdam EA. **J Am Coll Cardiol** 1989 Nov 1;14(5):1173–4 Comment on: J Am Coll Cardiol 1989 Nov 1;14(5):1166–72.

Late reversibility: a viability issue [comment] Botvinick EH. **J Am Coll Cardiol** 1990 Feb;15(2):341–4 Comment on: J Am Coll Cardiol 1990 Feb;15(2):334–40.

Long-term follow-up of patients with silent ischemia during exercise radionuclide angiography [see comments] Breitenbücher A, et al. **J Am Coll Cardiol** 1990 Apr; 15(5):999–1003 Comment in: J Am Coll Cardiol 1990 Apr;15(5):1004–6.

Improvement in rest and exercise-induced wall motion abnormalities after coronary angioplasty: an exercise echocardiographic study [see comments] Broderick T, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):591–9 Comment in: J Am Coll Cardiol 1990 Mar 1;15(3):600–1.

Augmentation of regional function in nonischemic myocardium during coronary occlusion measured with two-dimensional echocardiography. Buda AJ, et al. **J Am Coll Cardiol** 1990 Jul;16(1):175–80

Exercise-induced silent ischemia: age, diabetes mellitus, previous myocardial infarction and prognosis. Callaham PR, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1175–80

Programmed ventricular stimulation in patients with left ventricular dysfunction and ventricular tachycardia: effects of acute hemodynamic improvement due to nitroprusside. Carlson MD, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1744–52

Assessment of regional myocardial perfusion by contrast echocardiography. II. Detection of changes in transmural and subendocardial perfusion during dipyridamole-induced hyperemia in a model of critical coronary stenosis. Cheirif J, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1555–65

Endothelial, platelet and leukocyte interactions in ischemic heart disease: insights into potential mechanisms and their clinical relevance. Dinerman JL, et al. **J Am Coll Cardiol** 1990 Jul;16(1):207–22 (162 ref.)

Failure of nitroglycerin and diltiazem to reduce platelet-mediated vasoconstriction in dogs with coronary artery stenosis and endothelial injury: further evidence for thromboxane A2 and serotonin as mediators of coronary artery vasoconstriction in vivo [see comments] Golino P, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):718–26 Comment in: J Am Coll Cardiol 1990 Mar 1;15(3):727–9.

Functional measures of coronary stenosis severity at cardiac catheterization [comment] Gould KL. **J Am Coll Cardiol** 1990 Jul;16(1):198–9 Comment on: J Am Coll Cardiol 1990 Jul;16(1):190–7.

Coronary flow reserve as a physiologic measure of stenosis severity. Gould KL, et al. **J Am Coll Cardiol** 1990 Feb; 15(2):459–74

Right ventricular diastolic function during exercise: effect of ischemia. Heywood JT, et al. **J Am Coll Cardiol** 1990 Sep;16(3):611–22

The spectrum of diseases of small coronary arteries and their physiologic consequences. James TN. **J Am Coll Cardiol** 1990 Mar 15;15(4):763–74

Exercise echocardiography after coronary angioplasty: expanding applications [comment] Labovitz AJ. **J Am Coll Cardiol** 1990 Mar 1;15(3):600–1 Comment on: J Am Coll Cardiol 1990 Mar 1;15(3):591–9.

Chronic hypertension and left ventricular hypertrophy facilitate induction of sustained ventricular tachycardia in dogs 3 hours after left circumflex coronary artery occlusion [see comments] Martins JB, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1365–73 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1374–5.

Ischemia in the ambulatory setting—the total ischemic burden: relation to exercise testing and investigative and therapeutic implications [see comments] Mulcahy D, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1166–72 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1173–4.

Molecular biologic concepts of coronary anastomoses. Schaper W, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):513–8 (31 ref.)

The significance of coronary reserve in clinical heart disease. Strauer BE. **J Am Coll Cardiol** 1990 Mar 15;15(4):775–83

Silent myocardial ischemia: its impact on prognosis [comment] Wolfe CL. **J Am Coll Cardiol** 1990 Apr; 15(5):1004–6 Comment on: J Am Coll Cardiol 1990 Apr;15(5):999–1003.

Endothelium-dependent vasodilating effect of substance P during flow-reducing coronary stenosis in the dog. Yatani A, et al. **J Am Coll Cardiol** 1990 May;15(6):1374–84

Evaluation of reperfusion hyperemia with myocardial contrast echocardiography. Armstrong WF, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):322–32

Albunex: a safe and effective commercially produced agent for myocardial contrast echocardiography. Keller MW, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):48–52

Topographic correspondence of contrast echocardiographic perfusion mapping and myocardial infarct extent after varying durations of coronary occlusion. Kemper A, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):104–13

Mitral flow velocity curves as a function of different loading conditions: evaluation by intraoperative transesophageal Doppler echocardiography. Nishimura RA, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):79–87

Comparison of echocardiography at peak exercise and after bicycle exercise in evaluation of patients with known or suspected coronary artery disease. Presti CF, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):119–26

Hemodynamic and arrhythmogenic effects of aversive stress during myocardial ischemia. Billman GE, et al. **J Auton Nerv Syst** 1990 Mar;29(3):193–202

Sequence of mechanical and electrical changes during myocardial ischemia: assessment by an ambulatory left ventricular function monitor. Imai K, et al. **J Cardiol** 1988 Dec;18(4):955–65

Assessments of left ventricular function during exercise in patients with dilated cardiomyopathy: comparison with ischemic cardiomyopathy. Konishi T, et al. **J Cardiol** 1989 Sep;19(3):797–804

Effect of pinacidil on myocardial blood flow in the presence of a coronary artery stenosis. Bache RJ, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):618–25

The coronary artery disease paradox: the role of hyperinsulinemia and insulin resistance and implications for therapy. Black HR. **J Cardiovasc Pharmacol** 1990;15 Suppl 5:S26–38 (171 ref.)

Profibrillatory actions of pinacidil in a conscious canine model of sudden coronary death. Chi L, et al. **J Cardiovasc Pharmacol** 1990 Mar;15(3):452–64

Effects of Ro 40-5967, a novel calcium antagonist, on myocardial function during ischemia induced by lowering coronary perfusion pressure in dogs: comparison with verapamil. Clozel JP, et al. **J Cardiovasc Pharmacol** 1989 Nov;14(5):713–21

Acute consequences of ischemic myocardial damage. Hugenholtz PG, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 9:S1–11 (63 ref.)

Role of adenosine in catecholamine-induced global coronary functional hyperemia in isolated guinea pig hearts. Kang YH, et al. **J Cardiovasc Pharmacol** 1990 Jun;15(6):939–45

Effects of combined thromboxane synthetase inhibition/thromboxane receptor antagonism in two models of sudden cardiac death in the canine: limited role for thromboxane. Kitzen JM, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):68–80

Comparative antifibrillatory effects of d- and dl-sotalol in normal and ischaemic ventricular muscle of the cat. Kwan YW, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):233–8

Effects of peptide 6A on coronary blood flow dynamics in canine coronary thrombosis. Mehta JL, et al. **J Cardiovasc Pharmacol** 1989 Jun;13(6):803–11

Effects of the partial beta 1-adrenergic agonist, xamoterol, on hemodynamics and regional myocardial function during acute coronary occlusion in dogs. Miura T, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):182–7

Antiarrhythmic and metabolic effects of indoramin during acute regional ischemia and reperfusion in isolated rat heart. Muller CA, et al. **J Cardiovasc Pharmacol** 1990 Mar; 15(3):408–13

BRL 34915 ameliorates oxygen supply in ischemic myocardium by a simultaneous enhancement of coronary blood flow and a reduction of myocardial function. Rademacher C, et al. **J Cardiovasc Pharmacol** 1990 May; 15(5):808–15

Concentration-dependent effects of purine/xanthine oxidase on release of 6-keto-PGF1 alpha and contractile function of isolated guinea pig hearts: response to "ischemic" conditions followed by reperfusion. Tsushima RG, et al. **J Cardiovasc Pharmacol** 1989 Oct;14(4):560–9

Amiodarone pretreatment effects on ischemic isovolumic rat hearts: a P-31 nuclear magnetic resonance study of intracellular pH and high-energy phosphates contents evolutions. Vander Elst L, et al. **J Cardiovasc Pharmacol** 1990 Mar;15(3):377–85

Effect of the serotonin antagonist ketanserin on the hemodynamic and morphological consequences of thrombotic infarction. Dietrich WD, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):812–20

Myocardial cell damage and breakdown of cation homeostasis during conditions of ischaemia and reperfusion, the oxygen paradox, and reduced extracellular calcium. Diederichs F, et al. **J Clin Chem Clin Biochem** 1990 Mar; 28(3):139–48

Anxiety and coronary heart disease in midlife. Rahe RH. **J Clin Psychiatry** 1989 Nov;50 Suppl:36–9 (14 ref.)

Psychobiological differences in childhood stress response. II. Cardiovascular markers of vulnerability. Jemerin JM, et al. **J Dev Behav Pediatr** 1990 Jun;11(3):140–50 (136 ref.)

Persistent changes in the body surface electrocardiogram following successful coronary angioplasty. Montague TJ, et al. **J Electrocardiol** 1989;22 Suppl:91–8

Functional disability of elderly patients with long-term coronary heart disease: a sex-stratified analysis. Nickel JT, et al. **J Gerontol** 1990 Mar;45(2):S60–8

Silent myocardial ischaemia: prevalence, pathophysiology and significance. Campbell S. **J Hum Hypertens** 1990 Jun; 4 Suppl 2:15–20 (70 ref.)

The hypertension-coronary heart disease dilemma: the catecholamine-blood platelet connection. Kjeldsen SE, et al. **J Hypertens** 1989 Nov;7(11):851–60 (143 ref.)

Determinants of atrial natriuretic factor levels in coronary heart disease: significance of central pressures, heart chamber volumes and left ventricular mass. Keller N, et al. **J Intern Med** 1989 Sep;226(3):195–200

Sarcoplasmic reticulum function in the "stunned" myocardium. Limbruno U, et al. **J Mol Cell Cardiol** 1989 Oct;21(10):1063–72

Waste of ATP for tension development in myocardial acidosis: chemomechanical uncoupling at myofibrillar level. Takayasu T, et al. **J Mol Cell Cardiol** 1990 Feb; 22(2):127–30

Myocardial performance and perfusion during exercise in patients with coronary artery disease caused by Kawasaki disease. Paridon SM, et al. **J Pediatr** 1990 Jan;116(1):52–6

Cardioprotective effects of acidified sodium nitrite in myocardial ischemia with reperfusion. Johnson G 3d, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):35–41

Calcium antagonists show two modes of protection in ischemic heart failure. van Amsterdam FT, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):277–83

Holter monitoring in conscious dogs. Assessment of arrhythmias occurring during ischemia and in the early reperfusion phase. Krumpl G, et al. **J Pharmacol Methods** 1989 Sep;22(2):77–91

Holter monitoring in conscious dogs. Assessment of arrhythmias occurring in the late reperfusion phase after coronary occlusion. Krumpl G, et al. **J Pharmacol Methods** 1989 Sep;22(2):93–102

The consequences of simulated ischaemia on intracellular Ca2+ and tension in isolated ferret ventricular muscle. Allen DG, et al. **J Physiol (Lond)** 1989 Mar;410:297–323

Effects of low extracellular calcium on cytosolic calcium and ischemic contracture. Jimenez E, et al. **J Surg Res** 1990 Sep;49(3):252–5

Hyperosmotic mannitol and collateral blood flow to ischemic myocardium. Vlahakes GJ, et al. **J Surg Res** 1989 Nov; 47(5):438–46

The effect of amino acids on the ischemic heart. Improvement of oxygenated crystalloid cardioplegic solution by an enriched branched chain amino acid formulation. Schwalb H, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):551–6

Effect of sheng mai san on left ventricular performance in coronary heart disease. Liao JZ, et al. **J Tradit Chin Med** 1982 Mar;2(1):57–62

Silent myocardial ischemia. Is the person or the event silent? Barsky AJ, et al. **JAMA** 1990 Sep 5;264(9):1132–5 (72 ref.)

Endothelial dysfunction plays dynamic role in coronary artery disease [news] Goldsmith MF. **JAMA** 1990 Feb 9; 263(6):789–90

Silent myocardial ischemia in patients with variant angina. Egashira K, et al. **Jpn Circ J** 1989 Nov;53(11):1452–7

Vitamin E and ventricular fibrillation threshold in myocardial ischemia. Fuenmayor AJ, et al. **Jpn Circ J** 1989 Oct; 53(10):1229–32

Alleviation of myocardial ischemia by the development of coronary collateral circulation. Fujita M, et al. **Jpn Circ J** 1989 Sep;53(9):1164–9 (18 ref.)

Clinical significance and management of silent myocardial ischemia in patients with angina pectoris and myocardial infarction. Kishida H, et al. **Jpn Circ J** 1989 Nov; 53(11):1444–51

Significance of ultrafast computed tomography in cardiac imaging: usefulness in assessment of myocardial characteristics and cardiac function. Naito H, et al. **Jpn Circ J** 1990 Mar;54(3):322–7

Myocardial perfusion in silent myocardial ischemia: investigation by exercise stress myocardial tomography with thallium-201. Narita M, et al. **Jpn Circ J** 1989 Nov; 53(11):1427–36

Triphasic time dependence of prognostic markers in patients with sustained ventricular tachyarrhythmias and coronary artery disease. Nogami A, et al. **Jpn Circ J** 1989 Sep; 53(9):1061–71

Possible mechanism responsible for mechanical dysfunction of ischemic myocardium: a role of oxygen free radicals. Okabe E, et al. **Jpn Circ J** 1989 Sep;53(9):1132–7

Relationship of thallium-201 defect and left ventricular function after dipyridamole infusion. Tono-oka I, et al. **Jpn Circ J** 1989 Jul;53(7):707–15

Increased dependence on slow filling for left ventricular diastolic filling in patients with coronary artery disease and a depressed systolic function—assessment with radionuclide ventriculography. Yamagishi T, et al. **Jpn Circ J** 1990 Apr; 54(4):361–72

The effect of left ventricular wall motion during isovolumetric relaxation period in coronary artery disease. Yatabe S, et al. **Jpn Circ J** 1989 Jul;53(7):766–72

Angiographic response to a vasodilating drug, nicorandil, in patients with coronary artery disease. Kishida H, et al. **Jpn Heart J** 1990 Mar;31(2):135–43

Reversal of rest asynergy during exercise in patients with coronary artery disease. Konishi T, et al. **Jpn Heart J** 1989 Jul;30(4):459–70

A case of secundum atrial septal defect combined with aortic stenosis and coronary artery disease showing a single second heart sound. Saitoh M, et al. **Jpn Heart J** 1990 Jan;31(1):121–6

Effects of a thromboxane A2 synthetase inhibitor on ventricular fibrillation threshold during coronary artery occlusion and reperfusion. Toda I, et al. **Jpn Heart J** 1990 Jan;31(1):87–97

Betaxolol, a cardioselective beta-adrenoceptor antagonist, attenuates ischemic myocardial acidosis in dogs. Abe Y, et al. **Jpn J Pharmacol** 1990 Jun;53(2):185–94

Blood pressure and coronary heart disease [letter] Collins R, et al. **Lancet** 1990 Aug 11;336(8711):370–1

Blood pressure, stroke, and coronary heart disease. Part 1, Prolonged differences in blood pressure: prospective observational studies corrected for the regression dilution bias [see comments] MacMahon S, et al. **Lancet** 1990 Mar 31;335(8692):765–74 Comment in: Lancet 1990 May 5;335(8697):1092–4. Comment in: Lancet 1990 May 19;335(8699):1230–1. Comment in: Lancet 1990 Jun 23;335(8704):1534.

Cardiovascular responses to upper body exercise in normals and cardiac patients. Miles DS, et al. **Med Sci Sports Exerc** 1989 Oct;21(5 Suppl):S126–31 (35 ref.)

Sudden cardiac death [letter; comment] **N Engl J Med** 1990 Jan 25;322(4):271–3 Comment on: N Engl J Med 1989 Aug 3;321(5):320–4.

Short-term effects of carbon monoxide exposure on the exercise performance of subjects with coronary artery disease [published erratum appears in N Engl J Med 1990 Apr 5;322(14):1019] [see comments] Allred EN, et al. **N Engl J Med** 1989 Nov 23;321(21):1426–32 Comment in: N Engl J Med 1989 Nov 23;321(21):1474–5. Comment in: N Engl J Med 1990 Apr 12;322(15):1086–7.

Coronary endothelium-protective effects of defibrotide in ischaemia and reperfusion. Lefer AM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):246–50

Nicorandil and cardiovascular performance in anaesthetized pigs with a concentric coronary artery stenosis. Sassen LM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec; 340(6 Pt 2):733–9

Metabolic consequences of coronary stenosis. Transmurally heterogeneous myocardial ischemia studied by spatially localized 31P NMR spectroscopy. Ugurbil K, et al. **NMR Biomed** 1989 Dec;2(5–6):317–28

Type A behavior and cardiovascular responses during verbalization in cardiac patients. Thomas SA, et al. **Nurs Res** 1990 Jan–Feb;39(1):48–53

Exercise electrophysiology testing: the effect of exercise on the induction of ventricular arrhythmias by programmed ventricular stimulation. Thomas GS, et al. **PACE** 1990 Jan; 13(1):17–22

Persistence of atrioventricular valve regurgitation and electrocardiographic abnormalities following transient myocardial ischemia of the newborn. Turner-Gomes SO, et al. **Pediatr Cardiol** 1989 Fall;10(4):191–4

Calcium sensitivity and unloaded shortening velocity of hypertrophied and non-hypertrophied skinned human atrial fibres. Arndt H, et al. **Pflugers Arch** 1989 Nov; 415(2):209–13

Comparative anti-ischemic effects of dihydropyridine calcium antagonists in isolated perfused rat hearts: relationship of cardiodepression and cardioprotection. Grover GJ, et al. **Pharmacology** 1990;40(3):137–49

Predictability of repeated challenge: effects on cardiovascular activity in the type A (coronary prone) behavior pattern. Zeichner A, et al. **Physiol Behav** 1990 Jan;47(1):149–54

Electrophysiological mechanisms of ventricular arrhythmias resulting from myocardial ischemia and infarction. Janse MJ, et al. **Physiol Rev** 1989 Oct;69(4):1049–169 (581 ref.)

What causes silent myocardial ischemia? Quyyumi A. **Postgrad Med** 1989 Nov 15;86(7):62–6, 69–75

Myocardial ischaemia and coronary artery disease. Opie LH. **S Afr Med J** 1989 Oct 7;Suppl:1–5 (28 ref.)

Relation between subendocardial blood flow and restoration of left ventricular function after global ischemia. Grötte GJ, et al. **Surg Forum** 1978;29:263–4

Are postischemic hearts really stiffer? Schaff HV, et al. **Surg Forum** 1978;29:265–7

Myocardial protection and ischemia tolerance of the globally ischemic heart. Gebhard MM. **Thorac Cardiovasc Surg** 1990 Apr;38(2):55–9 (16 ref.)

Effects of carvedilol on left ventricular function and arrhythmias during repeated short-time myocardial ischemia in experimental pigs. Höher M, et al. **Z Kardiol** 1989;78 Suppl 3:7–15

[Volumetric indices of the left ventricle in patients with ischemic heart disease] Shelretova E, et al. **Khirurgiia (Sofiia)** 1989;42(4):32–6 (Eng. Abstr.) **(Bul)**

[Effect of electro-acupuncture on the segment length of the myocardium and the left intraventricular pressure-length vector loop during experimental acute myocardial ischemic damage] Meng JB, et al. **Chen Tzu Yen Chiu** 1989; 14(4):435–41 (Eng. Abstr.) **(Chi)**

[Quantitative detection of microcirculation and multi-factorial analysis of patients with cardio-cerebrovascular diseases with blood-stasis syndrome] Han XM, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):593–5, 580–1 (Eng. Abstr.) **(Chi)**

[A comparative study of cardiac function during hypoxia and ischemia in dogs] Ning X. **Chung Hua I Hsueh Tsa Chih** 1990 Feb;70(2):68–71, 6 (Eng. Abstr.) **(Chi)**

[Changes in platelet aggregation and coronary collateral circulation during the early phase of myocardial ischemia in dogs] Zhao ZQ, et al. **Sheng Li Hsueh Pao** 1989 Aug; 41(4):346–53 (Eng. Abstr.) **(Chi)**

[Effects of arginine aspirin on changes in effective refractory period and ventricular fibrillation threshold of ischemic myocardium in rabbit] Zhao ZQ, et al. **Yao Hsueh Hsueh Pao** 1989;24(10):721–5 (Eng. Abstr.) **(Chi)**

[Vectorcardiographic image of localized paroxysmal ischemia] Drška Z, et al. **Ann Cardiol Angeiol (Paris)** 1990 Apr;39(4):199–201 (Eng. Abstr.) **(Fre)**

[The natural history of coronary disease. The role of cholesterol] Ovize M, et al. **Ann Cardiol Angeiol (Paris)** 1990 May;39(5):295–300 (27 ref.) (Eng. Abstr.) **(Fre)**

[Diastolic counter pumping by intra-aortic balloon changes the diastolic coronary output and myocardial systolic function in man] Dupuy P, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R229 **(Fre)**

[The effects of flumazenil on coronary circulation and left ventricular performance in coronary patients] Marty J, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R6 **(Fre)**

[Ischemia, myocardial infarction and epidural anesthesia in patients with coronary disease] Mion G, et al. **Ann Fr Anesth Reanim** 1989;8(4):365–8 (Eng. Abstr.) **(Fre)**

[Echocardiographic evaluation in real time of ischemia and filling problems during surgery] Saada M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R100 **(Fre)**

[An attempt to quantify myocardial ischemia by selective coronary arteriography: determination of a new score. An initial study] Amiel M, et al. **Arch Mal Coeur** 1990 Jan; 83(1):69–75 (Eng. Abstr.) **(Fre)**

[Clinical, angiographic aspects and 18-month follow-up of 134 cases of left coronary trunk stenosis] Carrie D, et al. **Arch Mal Coeur** 1989 Dec;82(12):2027–33 (30 ref.) (Eng. Abstr.) **(Fre)**

[Value of the positive exercise test without angina (after myocardial infarct)] Saint-Pierre A, et al. **Arch Mal Coeur** 1989 Oct;82(10):1701–7 (Eng. Abstr.) **(Fre)**

[The risks of bronchoscopy in coronary patients] Dombret MC, et al. **Rev Mal Respir** 1990;7(4):313–7 (Eng. Abstr.) **(Fre)**

[Exercise test before prosthesis fitting in amputees with vascular insufficiency] Paré G, et al. **Union Med Can** 1990 Mar-Apr;119(2):63; 67–9 (Eng. Abstr.) **(Fre)**

[Preoperative treatment with beta-receptor blockers and isoflurane anesthesia. Hemodynamic interactions in patients with coronary disease] Eichwede F, et al. **Anaesthesist** 1990 Jul;39(7):361–6 (Eng. Abstr.) **(Ger)**

[Short term effects of carbon disulfide on the intracardial irritation development and transmission in the rat] Hoffmann P, et al. **Arch Exp Veterinarmed** 1989;43(4):515–9 (Eng. Abstr.) **(Ger)**

[Effects of nicotine on left ventricular diastolic function in patients with coronary disease. An echocardiographic study] Störk T, et al. **Dtsch Med Wochenschr** 1990 Apr 20;115(16):610–7 (Eng. Abstr.) **(Ger)**

[Cross-country and downhill skiing in patients with myocardial infarct. Can silent ischemia be prevented by drug therapy?] Völker K, et al. **Fortschr Med** 1990 May 10;108(14):273–5 (Eng. Abstr.) **(Ger)**

[Significance of endothelium-derived relaxing factor for the pathophysiologic understanding of coronary heart disease] Bassenge E. **Med Klin** 1990 Feb;85 Suppl 1:3–7 (17 ref.) **(Ger)**

[Echocardiographic functional parameters of the left ventricle as a prognostic indicator in coronary heart disease] Kneissl GD, et al. **Versicherungsmedizin** 1990 Jun 1;42(3):70–7 (Eng. Abstr.) **(Ger)**

[Comparison of the oxygen deficit and ischemia pain threshold in patients with silent and symptomatic myocardial exercise-induced ischemia] Hartmann A, et al. **Z Kardiol** 1990 Jan;79(1):23–7 (Eng. Abstr.) **(Ger)**

[Coronary vasomotion in myocardial ischemia] Heusch G. **Z Kardiol** 1989 Aug;78(8):485–99 (114 ref.) (Eng. Abstr.) **(Ger)**

[A new Doppler echocardiography parameter of diastolic ventricular function] Opgenorth-Welslau R, et al. **Z Kardiol** 1990 Jul;79(7):475–81 (Eng. Abstr.) **(Ger)**

[Changes in left ventricular hemodynamics and contractility and significance of various reperfusion phase times in recurrent short duration ischemia in the human] Prachar H, et al. **Z Kardiol** 1990 Jan;79(1):15–22 (Eng. Abstr.) **(Ger)**

[Silent myocardial ischemia] Roskamm H, et al. **Z Kardiol** 1989;78 Suppl 2:145–9; discussion 159 (29 ref.) (Eng. Abstr.) **(Ger)**

[Estimated relation of Doppler echocardiography parameters of diastolic ventricular function and pulmonary capillary pressure in acute ischemia] Werner GS, et al. **Z Kardiol** 1990 Jul;79(7):468–74 (Eng. Abstr.) **(Ger)**

[Examination of the diastolic function of the left ventricle by Doppler echocardiography in coronary disease] Szabóki F, et al. **Orv Hetil** 1990 Apr 22;131(16):847–51 (27 ref.) (Eng. Abstr.) **(Hun)**

[Silent myocardial ischemia. Clinical significance and dimension of the problem] Fragola PV, et al. **Ann Ital Med Int** 1987 Jul-Sep;2(3):214–21 (0 ref.) (Eng. Abstr.) **(Ita)**

[Analysis using scintigraphy with thallium-201 of the perfusion picture before and after myocardial revascularization] Astorri E, et al. **Cardiologia** 1989 Aug; 34(8):701–6 (Eng. Abstr.) **(Ita)**

[Doppler-hemodynamic evaluation of variations in left ventricular filling due to reduction of external mechanical compression] Destro G, et al. **Cardiologia** 1989 Jul; 34(7):609–16 (Eng. Abstr.) **(Ita)**

[Ventricular function in dilated cardiopathy] Caponnetto S, et al. **Clin Ter** 1990 Jan 31;132(2):85–99 (51 ref.) (Eng. Abstr.) **(Ita)**

[The role of tests provoking hypertension or coronary vasospasm in the ergometry laboratory] Ardissino D, et al. **G Ital Cardiol** 1989 Jun;19(6):555–7 (20 ref.) **(Ita)**

[Silent stress ischemia] Falcone C, et al. **G Ital Cardiol** 1989 Jun;19(6):548–50 (20 ref.) **(Ita)**

[Hypothesis on the mechanisms of the absence of pain in transitory myocardial ischemia: coronary angioplasty as a study model] Falcone C. **G Ital Cardiol** 1989 Aug; 19(8):726–30 (43 ref.) **(Ita)**

[Advantages and disadvantages of Holter monitoring compared to the ergometric test in the evaluation of stress ischemia] Fazzini PF, et al. **G Ital Cardiol** 1989 Jun; 19(6):541–7 (39 ref.) **(Ita)**

[The unknown limits of ischemia] L'Abbate A. **G Ital Cardiol** 1989 Aug;19(8):739–42 (7 ref.) **(Ita)**

[Evaluation of exercise test reproducibility in patients with ischemic cardiopathy] Scardi S, et al. **G Ital Cardiol** 1990 Apr;20(4):329–36 (Eng. Abstr.) **(Ita)**

[Silent ischemia in subjects with angina] Turitto G, et al. **G Ital Cardiol** 1989 Aug;19(8):720–5 (33 ref.) **(Ita)**

[The echocardiographic examination associated with the cold pressor test or the isometric force test in the evaluation of ischemic heart disease] Canale C, et al. **Minerva Cardioangiol** 1989 Jul-Aug;37(7–8):341–9 (Eng. Abstr.) **(Ita)**

["Myocardial bridge" and "intramural LAD pathway" are not just a semantic problem] Lisanti P, et al. **Minerva Cardioangiol** 1989 Sep;37(9):389–93 (Eng. Abstr.) **(Ita)**

[Depression of the ST segment : pending problems (letter)] Morace G, et al. **Recenti Prog Med** 1990 Apr;81(4):299–300 **(Ita)**

[Evaluation of left ventricular filling dynamics by pulsed Doppler echocardiography during afterload stress in ischemic heart disease using angiotensin II infusion] Hayashi T, et al. **J Cardiol** 1989 Sep;19(3):699–707 (Eng. Abstr.) **(Jpn)**

[Effects of sublingual administration of nitroglycerin on left anterior descending arterial hemodynamics evaluated with

Doppler echocardiography] Omori K, et al. **J Cardiol Suppl** 1989;22:97–9 **(Jpn)**

[Clinical characteristics of ischemic heart disease in the aged: significance of coronary revascularization and role of PTCA] Yabe Y. **J Cardiol Suppl** 1988;19:17–27 (Eng. Abstr.) **(Jpn)**

[Clinical significance of exercise induced ST segment depression after successful percutaneous transluminal coronary angioplasty—assessment by thallium–201 SPECT] Aoki T, et al. **Kaku Igaku** 1989 Jun;26(6):733–41 (Eng. Abstr.) **(Jpn)**

[Significance of "overshoot" elevation of ejection fraction in early recovery period after exercise in patients with coronary artery disease] Imai K, et al. **Kaku Igaku** 1989 Nov;26(11):1429–37 (Eng. Abstr.) **(Jpn)**

[Comparison of thallium perfusion and electrocardiographic findings at exercise thallium–201 scintigraphy with coronary arteriographic findings] Matsuo T, et al. **Kaku Igaku** 1989 Jun;26(6):763–71 (Eng. Abstr.) **(Jpn)**

[Assessment of resting thallium–201 reinjection after stress–delayed Tl imaging (I): Comparison with 24–hour scan and regional wall motion] Ohtani H, et al. **Kaku Igaku** 1990 Jan;27(1):9–15 (Eng. Abstr.) **(Jpn)**

[An examination of left ventricular peak filling rate and ventricular relaxation rate by simultaneous acquisition of radionuclide ventriculography and left ventricular pressure] Sugihara H, et al. **Kaku Igaku** 1989 Dec; 26(12):1493–501 (Eng. Abstr.) **(Jpn)**

[Study on the genesis of posturally induced crackles from hemodynamic data—in patients with ischemic heart disease having normal respiratory function] Iida M, et al. **Kokyu To Junkan** 1989 Sep;37(9):1009–14 (Eng. Abstr.) **(Jpn)**

[The necessary conditions of chronic total occlusion of all three coronary vessels—the relationship between portions of coronary occlusion and collateral vessels] Moriuchi I, et al. **Kokyu To Junkan** 1990 Jul;38(7):659–63 (Eng. Abstr.) **(Jpn)**

[Clinical electrophysiological effects of nicorandil on the conduction system in humans] Tsuchioka Y, et al. **Kokyu To Junkan** 1990 Jul;38(7):683–6 (Eng. Abstr.) **(Jpn)**

[Circadian variation of myocardial ischemia] Yasue H, et al. **Kokyu To Junkan** 1990 Jul;38(7):637–40 **(Jpn)**

[Effects of tachycardia on ischemic canine hearts during nitrous oxide–oxygen–halothane anesthesia] Kohyama A, et al. **Masui** 1990 May;39(5):559–67 (Eng. Abstr.) **(Jpn)**

[Responses of plasma eicosanoids and hemodynamics to myocardial ischemia and the salutary effect of calcium entry blocker] Takase B. **Nippon Ika Daigaku Zasshi** 1990 Feb;57(1):42–54 (Eng. Abstr.) **(Jpn)**

[Irreversible ischemic myocardial damage. Physiopathologic aspects of ischemia and myocardial revascularization] Myrmel T. **Tidsskr Nor Laegeforen** 1990 May 20; 110(13):1707–10 (64 ref.) (Eng. Abstr.) **(Nor)**

[Changes in circulating blood volume in patients with ischemic heart disease during and after surgery with extracorporeal circulation] Koziorowska B. **Folia Med Cracov** 1989;30(3–4):171–90 (Eng. Abstr.) **(Pol)**

[The main causes of disorders of the early phase of diastolic relaxation in ischemic heart disease] Ciszewski A. **Pol Arch Med Wewn** 1988 Jun;79(6):326–31 (39 ref.) **(Pol)**

[Effect of isosorbide dinitrate (sorbonit) on the exercise reaction in patients with coronary disease and in healthy individuals] Ziołowski L, et al. **Pol Tyg Lek** 1989 Feb 6; 44(6):150–2 (Eng. Abstr.) **(Pol)**

[Physiopathologic aspects of coronary occlusion] Laurindo FR, et al. **AMB Rev Assoc Med Bras** 1989 Jul–Sep; 35(4):126–36 (130 ref.) **(Por)**

[Slow blood flow in the coronary arteries: probable expression of a morbid process] Ramires JA, et al. **Arq Bras Cardiol** 1989 Jan;52(1):1–3 **(Por)**

[Hemodynamic profile of patients with normal coronary cineangiography] Romão N, et al. **Arq Bras Cardiol** 1989 Jul;53(1):15–8 (Eng. Abstr.) **(Por)**

[From cardiac catheterization to the study of left ventricular function. Importance of relaxation and diastole in ischemic cardiopathy] Gomes RS. **Rev Port Cardiol** 1989 May; 8(5):401–7 (60 ref.) (Eng. Abstr.) **(Por)**

[Movement of the mitral valve in patients with ischemic cardiopathy] Oliveira JA, et al. **Rev Port Cardiol** 1989 Jun; 8(6):443–6 (Eng. Abstr.) **(Por)**

[The "stiff heart" syndrome] Bruckner II, et al. **Rev Med Interna [Med Interna]** 1989 Mar–Apr;41(2):97–103 **(Rum)**

[The capillary system of the rat heart in occlusion of the coronary artery] Sisakian SA, et al. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):15–8 (Eng. Abstr.) **(Rus)**

[Disorders of cardiac contractile function in ischemic shock; the protective effect of antioxidants and liposomes made from egg phospholipids] Bilenko MV, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):660–3 (Eng. Abstr.) **(Rus)**

[Sympathetic and parasympathetic regulation of the heart in transitory coronary insufficiency] Litvitskiĭ PF. **Biull Eksp Biol Med** 1990 Jan;109(1):18–20 (Eng. Abstr.) **(Rus)**

[An elevated pain sensitivity threshold in patients with IHD and predominantly painless ST–segment decreases during Holter ECG monitoring] Kosmachev AA, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):101–2 **(Rus)**

[Energy expenditures during measured physical loading in healthy men and in patients with ischemic heart disease] Gulevskaia OM, et al. **Fiziol Cheloveka** 1989 Sep–Oct; 15(5):61–4 **(Rus)**

[Disorders of the microcirculation and tissue oxygen diffusion in hyperlipidemias and ischemic heart disease] Ivanov SN, et al. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):154–6 **(Rus)**

[Effect of the autonomic nervous system on the resistance of heart ventricles to fibrillation] Stoliarchuk AA, et al. **Fiziol Zh** 1990 May–Jun;36(3):73–6 (Eng. Abstr.) **(Rus)**

[Cardiovascular reflexes in acute occlusion of the coronary artery] Syrenskiĭ AV, et al. **Fiziol Zh SSSR** 1989 Oct; 75(10):1417–23 (Eng. Abstr.) **(Rus)**

[Functional state of the left heart ventricle during isometric exercise test in patients with ischemic heart disease complicated by heart failure] Alekperov EZ. **Kardiologiia** 1989 Dec;29(12):99–101 **(Rus)**

[Energy expenditure and response of the cardiovascular system during performance of everyday exercises by patients with ischemic heart disease of various functional classes] Aronov DM, et al. **Kardiologiia** 1989 Nov; 29(11):79–83 (Eng. Abstr.) **(Rus)**

[Value of long–term ECG monitoring of middle–aged and elderly patients with ischemic heart disease in a cardiological sanatorium] Bykov II, et al. **Kardiologiia** 1989 Jul;29(7):103–4 **(Rus)**

[Cerebrovascular circulation in patients with ischemic heart disease during stenocardia attack induced by transesophageal atrial stimulation] Dudko VA, et al. **Kardiologiia** 1990 Feb;30(2):94–5 **(Rus)**

[Reaction of central hemodynamics to physical exertion in patients with ischemic heart disease and permanent cardiac pacemaker during long–term ambulatory treatment with digoxin] Isazade GM, et al. **Kardiologiia** 1989 Jul; 29(7):104–6 **(Rus)**

[Changes in the pituitary–adrenal system in elderly patients with ischemic heart disease and chronic circulatory failure during treatment with hyperbaric oxygenation] Khaidarova GKh, et al. **Kardiologiia** 1990 Mar;30(3):98–9 **(Rus)**

[Catheterization of the right heart and pulmonary artery: the main parameters of central hemodynamics] Kosminskiĭ PG, et al. **Kardiologiia** 1990 Jan;30(1):90–5 **(Rus)**

[ECG changes in leads over the left ventricular epicardial surface during bicycle ergometry and perfusion pressure in the left coronary artery] Leshchenko AI, et al. **Kardiologiia** 1989 Jul;29(7):99–100 **(Rus)**

[Thrombosis and cardiac arrhythmia] Liusov VA, et al. **Kardiologiia** 1989 Oct;29(10):10–5 **(Rus)**

[Characteristics of cardiac hemodynamics and right ventricular function in patients with various types of cardiomyopathy and ischemic heart disease] Mamedova FA. **Kardiologiia** 1989 Jul;29(7):70–3 (Eng. Abstr.) **(Rus)**

[Left–ventricular relaxation in patients with ischemic heart disease, congestive cardiomyopathy and mitral and aortic valve defects] Petrosian IuS, et al. **Kardiologiia** 1989 Oct; 29(10):102–6 (Eng. Abstr.) **(Rus)**

[Pattern of hemodynamic adaptation to physical exertion in patients with chronic forms of ischemic heart disease during physical training] Rudakov AV. **Kardiologiia** 1989 Oct; 29(10):74–9 **(Rus)**

[Problems of evaluation of myocardial contraction in disorders of coronary circulation] Sandrikov VA, et al. **Kardiologiia** 1989 Sep;29(9):112–6 (49 ref.) **(Rus)**

[Physical exertion tolerance in patients with ischemic heart disease and tachysystolic form of atrial fibrillation] Voro˘bev LP, et al. **Kardiologiia** 1989 Oct;29(10):112–4 **(Rus)**

[Effect of Bonnecor on clinical manifestations, bioelectric cardiac activity and cardiac hemodynamics in patients with acute myocardial infarction and chronic ischemic heart disease] Ol'binskaia LI, et al. **Klin Med (Mosk)** 1990 Feb; 68(2):44–6 (Eng. Abstr.) **(Rus)**

[Respiratory function in newly developed stenocardia and in long–term course of ischemic heart disease] Zimin IuV, et al. **Klin Med (Mosk)** 1990 Feb;68(2):69–74 (Eng. Abstr.) **(Rus)**

[The role of changes in central and intracardiac hemodynamics in lowering the physical work capacity of patients with ischemic heart disease and diabetes mellitus] Zaev AP, et al. **Ter Arkh** 1989;61(9):53–6 (Eng. Abstr.) **(Rus)**

[Coronary circulation in patients with ischemic heart disease with various degrees of arteriosclerosis obliterans of the leg during selection surgical treatment] Fitileva LM, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):23–7 (Eng. Abstr.) **(Rus)**

[Automated analysis of the body functional indices in the rehabilitation of ischemic heart disease patients at a sanatorium] Lanovenko IuP, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 May–Jun; (3):25–8 **(Rus)**

[The interrelation of central hemodynamic and kidney function indices in patients with ischemic heart disease] Biletskiĭ SV, et al. **Vrach Delo** 1989 Sep;(9):19–21 (Eng. Abstr.) **(Rus)**

[The indices of spiroergometry and tetrapolar rheography in patients with ischemic heart disease] Klemenkov SV, et al. **Vrach Delo** 1989 Sep;(9):23–4 (Eng. Abstr.) **(Rus)**

[Pathophysiologic mechanisms of myocardial ischemia and an approach to drug therapy in patients] Pavlović M, et al. **Srp Arh Celok Lek** 1987 Jul;115(7):789–93 **(Sec)**

[Evaluation of the Q wave in leads II, III, and aVF. I. Deviation of the electrical axis of the heart, ischemic heart disease] Cagáň S, et al. **Vnitr Lek** 1989 Aug;35(8):743–51 (Eng. Abstr.) **(Slo)**

[A study of left ventricle filling using pulsed Doppler in patients with a high prevalence of atherosclerosis] González Romero S, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):493–7 (Eng. Abstr.) **(Spa)**

[Use of isoflurane in myocardial ischemia and heart insufficiency (editorial)] Merin RG. **Rev Esp Anestesiol Reanim** 1990 May–Jun;37(3):125–6 **(Spa)**

[The clinical significance of silent myocardial ischemia] Gottlieb SO. **Rev Esp Cardiol** 1989 Jan;42(1):1–5 (57 ref.) **(Spa)**

[Silent myocardial ischemia during Holter monitoring in patients with diabetes mellitus] Marín Huerta E, et al. **Rev Esp Cardiol** 1989 Oct;42(8):519–29 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Nutrition and cardiovascular risk: the Hungarian experience. Biró G. **Acta Cardiol** 1989;44(6):472–4

How far is the Belgian population from the recommended nutritional goals and ideal serum cholesterol levels: the B.I.R.N.H. Study. Kornitzer M. **Acta Cardiol** 1989; 44(6):465

Fat modified diet in the prevention of cardiovascular disease. Recommendations and guidelines. Schwandt P. **Acta Cardiol** 1989;44(6):490–2

Can risk scores for vascular disease in gout patients be improved? Darlington LG, et al. **Adv Exp Med Biol** 1989; 253A:197–204

Screening for asymptomatic coronary artery disease. U.S. Preventive Services Task Force. **Am Fam Physician** 1989 Dec;40(6):99–104 (54 ref.)

Prevention of myocardial ischemia during coronary angioplasty: a simple new method for distal antegrade arterial blood perfusion. Banka VS, et al. **Am Heart J** 1989 Oct;118(4):830–6

Iron depletion and coronary disease [letter; comment] Lauffer RB. **Am Heart J** 1990 Jun;119(6):1448–9 Comment on: Am Heart J 1989 May;117(5):1177–88.

Angioscopic study of the antithrombotic effect of a new selective thromboxane A2 synthetase inhibitor, CV–4151, on experimental arterial thrombi. Matsubara T, et al. **Am Heart J** 1989 Oct;118(4):837–9

A symposium: The significance of high–density lipoprotein cholesterol in the prevention of coronary artery disease. September 8–10, 1989, Phoenix, Arizona. **Am J Cardiol** 1990 Sep 4;66(6):1A–31A

Clinical trials including an update on the Helsinki Heart Study. Brown WV. **Am J Cardiol** 1990 Sep 4; 66(6):11A–15A (9 ref.)

Lovastatin and simvastatin prevention studies. Jones PH. **Am J Cardiol** 1990 Sep 18;66(8):39B–43B (20 ref.)

Low–dose warfarin and low–dose aspirin in the primary prevention of ischemic heart disease. Meade TW. **Am J Cardiol** 1990 Feb 2;65(6):7C–11C (27 ref.)

Effect of intravenous diltiazem on myocardial ischemia occurring during percutaneous transluminal coronary angioplasty. Piessens J, et al. **Am J Cardiol** 1989 Nov 15; 64(18):1103–7

You are a preventive cardiologist: the scope of pediatric preventive cardiology [editorial] Strong WB. **Am J Dis Child** 1989 Oct;143(10):1145

A meta–analysis of physical activity in the prevention of coronary heart disease. Berlin JA, et al. **Am J Epidemiol** 1990 Oct;132(4):612–28

Cardioprotection and antihypertensive therapy. Are beta–blockers the only effective therapy? Laher MS. **Am J Hypertens** 1989 Nov;2(11 Pt 2):274S–277S (31 ref.)

Exercise to prevent coronary heart disease. An experimental study of the effects of training on risk factors for coronary disease in men. Mann GV, et al. **Am J Med** 1969 Jan; 46(1):12–27

Cost effectiveness of cholesterol–lowering therapy in The Netherlands. Simvastatin versus cholestyramine. Martens LL, et al. **Am J Med** 1989 Oct 16;87(4A):54S–58S

Medical students' knowledge, attitudes, and behavior concerning diet and heart disease. Ammerman A, et al. **Am J Prev Med** 1989 Sep–Oct;5(5):271–8

Perspectives on prevention and medical education for the 1990s. Nickens HW, et al. **Am J Prev Med** 1990;6(2 Suppl):1–5

Recruiting young adults in an urban setting: the Chicago CARDIA experience. Orden SR, et al. **Am J Prev Med** 1990 May–Jun;6(3):176–82

Blaming the victim: the negative consequence of preventive medicine. Marantz PR. **Am J Public Health** 1990 Oct; 80(10):1186–7

Mild hypertension and cardiovascular risks [letter; comment] Burris JF. **Ann Intern Med** 1990 Jun 1;112(11):879 Comment on: Ann Intern Med 1990 Jan 15;112(2):89–95.

Hypercholesterolemia in elderly persons: resolving the treatment dilemma [see comments] Denke MA, et al. **Ann Intern Med** 1990 May 15;112(10):780–92 (83 ref.) Comment in: Ann Intern Med 1990 May 15;112(10):723–5.

Treatment of hypercholesterolemia in the elderly [comment] Kafonek SD, et al. **Ann Intern Med** 1990 May 15;

112(10):723–5 (24 ref.) Comment on: Ann Intern Med 1990 May 15;112(10):780–92.
Cholesterol and screening of asymptomatic adults [letter; comment] Muldoon MF. **Ann Intern Med** 1990 Mar 1; 112(5):384–5 Comment on: Ann Intern Med 1989 Apr 15;110(8):622–39.
Consensus development conference statement: blood cholesterol and coronary heart disease. Academy of Finland, Medical Research Council. **Ann Med** 1989 Dec; 21(6):415–24 (8 ref.)
Coronary heart disease in Finland. Towards consensus on strategies for prevention. Pyörälä K. **Ann Med** 1989 Dec; 21(6):405–8 (22 ref.)
Antiplatelet treatment prolongs survival after carotid bifurcation endarterectomy. Analysis of the clinical series followed by a controlled trial. Kretschmer G, et al. **Ann Surg** 1990 Mar;211(3):317–22
Infusion of nifedipine after coronary artery bypass grafting decreases the incidence of early postoperative myocardial ischemia. Seitelberger R, et al. **Ann Thorac Surg** 1990 Jan; 49(1):61–7; discussion 67–8
Cardioprotective effect of trimetazidine and nifedipine in guinea-pig hearts subjected to ischaemia. Hugtenburg JG, et al. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug; 300:186–208
A health examination trial among males in northern Finland. Niiyhä S, et al. **Aretic Med Res** 1988;47 Suppl 1:442–4
Scottish hearts but British habits [letter; comment] **BMJ** 1990 Feb 10;300(6721):398–9 Comment on: BMJ 1989 Dec 16;299(6714):1475–6.
Prevention of coronary heart disease in Scotland [letter] **BMJ** 1990 Jul 21;301(6744):180
Cholesterol screening programmes [letter; comment] **BMJ** 1989 Oct 14;299(6705):977–8 Comment on: BMJ 1989 Sep 2;299(6699):606–7.
Prevention of coronary heart disease in Scotland [letter] Dunnigan MG. **BMJ** 1990 Jun 16;300(6739):1583
Cholesterol testing [letter] [published erratum appears in BMJ 1989 Nov 4;299(6708):1167] [comment] Mulcahy R. **BMJ** 1989 Oct 14;299(6705):977 Comment on: BMJ 1989 Sep 2;299(6699):624–5.
Reduction of factor VII coagulant activity (VIIC), a risk factor for ischaemic heart disease, by fixed dose warfarin: a double blind crossover study. Poller L, et al. **Br Heart J** 1990 Apr;63(4):231–3
Monitoring the effect of heparin by measurement of activated clotting time during and after percutaneous transluminal coronary angioplasty. Rath B, et al. **Br Heart J** 1990 Jan; 63(1):18–21
Stress management approaches to the prevention of coronary heart disease. Bennett P, et al. **Br J Clin Psychol** 1990 Feb; 29 (Pt 1):1–12 (77 ref.)
Preliminary trial of the effect of general practice based nutritional advice. Baron JA, et al. **Br J Gen Pract** 1990 Apr;40(333):137–41
Guidelines for the detection of high-risk lipoprotein profiles and the treatment of dyslipoproteinemias. Canadian Lipoprotein Conference Ad Hoc Committee on Guidelines for Dyslipoproteinemias. **Can Med Assoc J** 1990 Jun 15; 142(12):1371–82 (134 ref.)
Physical activity and the risk of coronary heart disease. Després JP. **Can Med Assoc J** 1989 Nov 1;141(9):939
Antithrombotic therapy in the primary and secondary prevention of coronary-related death and infarction: focus on gender differences. Clyne CA. **Cardiology** 1990;77 Suppl 2:99–109 (28 ref.)
Preventive aspects of coronary heart disease. **Cardiovasc Clin** 1990;20(3):1–229
Modification of thrombogenic factors in cardiac disease. Genton E. **Cardiovasc Clin** 1990;20(3):127–32 (6 ref.)
Combined inhibitory effects of aspirin and ethanol on adrenaline exacerbation of acute platelet thrombus formation in stenosed canine coronary arteries [published erratum appears in Cardiovasc Res 1990 Jun;24(6):520] Keller JW, et al. **Cardiovasc Res** 1990 Mar;24(3):191–7
Inhibition of acute platelet thrombosis formation in stenosed canine coronary arteries by specific serotonin 5HT2 receptor antagonist ritanserin. Torr S, et al. **Cardiovasc Res** 1990 Jun;24(6):465–70
Thromboxane is produced in response to intracoronary infusions of complement C5a in pigs. Cyclooxygenase blockade does not reduce the myocardial ischemia and leukocyte accumulation. Ito BR, et al. **Circ Res** 1989 Nov; 65(5):1220–32
Beta-blockers, plasma lipids, and coronary heart disease. Cruickshank JM. **Circulation** 1990 Sep;82(3 Suppl):II60–5 (64 ref.)
Management of blood lipid abnormalities in coronary heart disease patients. Kuo PT. **Clin Cardiol** 1989 Oct; 12(10):553–60 (41 ref.)
Microdetermination of cutaneous apoprotein B: application to screening of coronary heart disease. Eché Y, et al. **Clin Chem** 1990 Mar;36(3):576–7
The effects of antihypertensive drug treatment on the incidence of stroke and of coronary heart disease. MacMahon S. **Clin Exp Hypertens [A]** 1989;11(5–6):807–23 (29 ref.)
Rapidly proliferative arteriopathy in cyclosporin-induced permanently surviving rat cardiac allografts simulating chronic vascular rejection. Fellström B, et al. **Clin Exp Immunol** 1990 May;80(2):288–92
Risk-benefit of specific antihypertensive regimens: relevance of metabolic and haemodynamic effects of alpha 1-blockers. Reid JL, et al. **Clin Exp Pharmacol Physiol** 1988 Mar;15(3):185–90 (14 ref.)
Dietary fiber and coronary heart disease. Anderson JW, et al. **Crit Rev Food Sci Nutr** 1990;29(2):95–147 (466 ref.)
Protection of the rat myocardium from ischemic injury by dietary lamprey oil. Yanagisawa A, et al. **Eicosanoids** 1988; 1(2):93–100
Role of circulating high-density lipoprotein and triglycerides in coronary artery disease: risk and prevention. Gordon DJ. **Endocrinol Metab Clin North Am** 1990 Jun; 19(2):299–309 (44 ref.)
Does lowering serum cholesterol levels lower coronary heart disease risk? Rossouw JE, et al. **Endocrinol Metab Clin North Am** 1990 Jun;19(2):279–97 (58 ref.)
Cholesterol and coronary heart disease prevention—a transatlantic consensus. Brook JG, et al. **Eur Heart J** 1989 Aug;10(8):702–11 (41 ref.)
The Mediterranean diet: protective or simply non-toxic? James WP, et al. **Eur J Clin Nutr** 1989;43 Suppl 2:31–41 (29 ref.)
Ayrshire and Arran coronary prevention programme—baseline risk factor survey. Smith WC, et al. **Health Bull (Edinb)** 1989 Sep;47(5):227–33
Screening of the coronary prone by study of offspring. Ibrahim MA, et al. **HSMHA Health Rep** 1971 Jun; 86(6):577–82
The cholesterol controversy. Schrott H, et al. **Iowa Med** 1990 Jul;80(7):349–51
Consensus statement of King's Fund Forum: blood cholesterol measurement in the prevention of coronary heart disease. Smith JP. **J Adv Nurs** 1990 Jan;15(1):1–2
The autoperfusion balloon angioplasty catheter limits myocardial ischemia and necrosis during prolonged balloon inflation. Campbell CA, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):1045–50
Prevention of coronary heart disease: some results from the Oslo secondary and primary intervention studies. Leren P. **J Am Coll Nutr** 1989 Oct;8(5):407–10
A risk-reduction nutrition course for adults. Boeckner LS, et al. **J Am Diet Assoc** 1990 Feb;90(2):260–3
Helsinki gemfibrozil study: another look [letter] Ahuja IM. **J Assoc Physicians India** 1990 May;38(5):382
Myocardial cytoprotective efficacy of azapropazone in a canine heart model of regional ischemia and reperfusion. Mousa SA, et al. **J Cardiovasc Pharmacol** 1989 Oct; 14(4):542–8
Stereoisomers of calcium antagonists distinguish a myocardial and vascular mode of protection against cardiac ischemic injury. van Amsterdam FT, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):198–204
Is prevention of ischemic heart disease possible in hypertensives? Wilhelmsen L. **J Cardiovasc Pharmacol** 1987;10 Suppl 2:S61–3; discussion S64 (15 ref.)
Risk factor knowledge, status, and change in a community screening project. Sutterer JR, et al. **J Community Health** 1989 Fall;14(3):137–47
Social class and risk factors for coronary heart disease in the Federal Republic of Germany. Results of the baseline survey of the German Cardiovascular Prevention Study (GCP). Helmert U, et al. **J Epidemiol Community Health** 1989 Mar;43(1):37–42
Screening for ischaemic heart disease risk factors at a health fair: low attendance by those at highest risk. Watts M, et al. **J Epidemiol Community Health** 1989 Sep;43(3):234–6
Management of high blood cholesterol by primary care physicians: diffusion of the National Cholesterol Education Program Adult Treatment Panel guidelines. Shea S, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):327–34
Low-dose aspirin and accelerated coronary disease in heart transplant recipients [letter] de Lorgeril M, et al. **J Heart Transplant** 1990 Jul–Aug;9(4):449–50
Clinical trials for the reduction of coronary artery disease: a critical review [published erratum appears in J Hypertens Suppl 1990 May;8(5):following H57] Dal Palù C, et al. **J Hypertens Suppl** 1990 Mar;8(1):S17–23 (56 ref.)
Predicted reductions in the risk of coronary heart disease by antihypertensive therapy: the confounding effect of lipids. Hansson L. **J Hypertens Suppl** 1990 Mar;8(1):S13–6 (24 ref.)
Priorities in cardiological practice in a developing society [editorial] Chaudhuri A. **J Indian Med Assoc** 1989 Nov; 87(11):249–50
Dietary intervention in the clinical prevention of ischemic heart disease. Jamison JR. **J Manipulative Physiol Ther** 1990 Jun;13(5):247–52
Tamoxifen as a potential preventive agent in healthy postmenopausal women [editorial; comment] Prentice RL. **J Natl Cancer Inst** 1990 Aug 15;82(16):1310–1 Comment on: J Natl Cancer Inst 1990 Aug 15;82(16):1327–32.
A comparison of two fitness programs to reduce the risk of coronary heart disease in public safety officers. McMurray RG, et al. **J Occup Med** 1990 Jul;32(7):616–20
Coronary heart disease prevention [letter] Ross IR. **J R Coll Gen Pract** 1988 Dec;38(317):569
Can health screening damage your health? [see comments] Stoate HG. **J R Coll Gen Pract** 1989 May;39(322):193–5 Comment in: J R Coll Gen Pract 1989 Sep;39(326):389–90. Comment in: J R Coll Gen Pract 1989 Dec;39(329):519.
James Mackenzie lecture 1988. Everyone's business—everyone's responsibility. Waine C. **J R Coll Gen Pract** 1989 Jan;39(318):5–10
Coronary heart disease: when should prevention start? [editorial] West RJ. **J R Soc Med** 1990 Mar;83(3):133–4
National Cholesterol Education Program. Overview and educational activities. Cleeman JI. **J Reprod Med** 1989 Sep; 34(9 Suppl):716–28
National Cholesterol Education Program. Scientific rationale. LaRosa JC. **J Reprod Med** 1989 Sep;34(9 Suppl):675–90 (14 ref.)
Heart healthy cook-offs in home economics classes: an evaluation with junior high school students. Gans KM, et al. **J Sch Health** 1990 Mar;60(3):99–102
A process evaluation of the District of Columbia "Know Your Body" project. Taggart VS, et al. **J Sch Health** 1990 Feb;60(2):60–6
Comparison of ejection fraction and Goldman risk factor analysis to dipyridamole-thallium 201 studies in the evaluation of cardiac morbidity after aortic aneurysm surgery. McEnroe CS, et al. **J Vasc Surg** 1990 Apr; 11(4):497–504
Fats, oil, health [letter] **JAMA** 1990 Jun 20;263(23):3146–8
MAPHY and the two arms of HAPPHY [letter; comment] Holme I. **JAMA** 1989 Dec 15;262(23):3272–4 Comment on: JAMA 1988 Sep 23–30;260(12):1713–6.
Symposium on Protection of Ischemic Myocardium—Basic and Clinical Research. Proceedings of the 52d annual scientific session of the Japanese Circulation Society. May 13, 1988, Akita. **Jpn Circ J** 1989 Sep;53(9):1081–171
Infarct size and the protection of ischemic myocardium in pig, dog and human. Fujiwara H, et al. **Jpn Circ J** 1989 Sep;53(9):1092–7
Protective effects of a thromboxane synthetase inhibitor, a thromboxane antagonist, a lipoxygenase inhibitor and a leukotriene C4, D4 antagonist on myocardial injury caused by acute myocardial infarction in the canine heart. Ito T, et al. **Jpn Circ J** 1989 Sep;53(9):1115–21
Protection of acute ischemic myocardial injury by pharmacological intervention. Katagiri T, et al. **Jpn Circ J** 1989 Sep;53(9):1108–14
The protection of the acute ischemic myocardium: merits and demerits of the coronary reperfusion. Miura M, et al. **Jpn Circ J** 1989 Sep;53(9):1084–91
Response of isolated perfused heart to ischemia after long-term treatment of spontaneously hypertensive rats with diltiazem. Obata H, et al. **Jpn Circ J** 1990 Jan; 54(1):89–99
Effects of calcium antagonists and free radical scavengers on myocardial ischemia and reperfusion injury: evaluation by 31P-NMR spectroscopy. Ohsuzu F, et al. **Jpn Circ J** 1989 Sep;53(9):1138–43
Role of PMN elastase on ischemic myocardial injury in evolving myocardial infarction: correlation with clinical parameters and intervention by protease inhibitor ulinastatin. Shimai S, et al. **Jpn Circ J** 1989 Sep; 53(9):1144–51
Consequences of current lipid guidelines for the Federal Republic of Germany. Kohlmeier L, et al. **Klin Wochenschr** 1990 May 4;68(9):454–9
Left ventricular thrombosis and stroke following myocardial infarction. **Lancet** 1990 Mar 31;335(8692):759–60 (29 ref.)
The Scots and their hearts [editorial] **Lancet** 1990 Aug 11; 336(8711):349
The Scots and their hearts [letter] **Lancet** 1990 Sep 15; 336(8716):683–4
Hughes Day revisited [letter] Bahr RD. **Lancet** 1990 Aug 4;336(8710):311
Thiazide diuretics, beta-blockers, and coronary heart disease [letter; comment] Bruce R, et al. **Lancet** 1990 Jun 23; 335(8704):1534–5 Comment on: Lancet 1990 Apr 7;335(8693):827–38.
Blood pressure, stroke, and coronary heart disease. Part 2, Short-term reductions in blood pressure: overview of randomised drug trials in their epidemiological context [see comments] Collins R, et al. **Lancet** 1990 Apr 7; 335(8693):827–38 (84 ref.) Comment in: Lancet 1990 Jun 23;335(8704):1534–5.
Effects of coronary risk reduction on the pattern of mortality [see comments] Rose G, et al. **Lancet** 1990 Feb 3; 335(8684):275–7 (6 ref.) Comment in: Lancet 1990 Apr 14;335(8694):923.
Cholesterol testing with desk-top machines [letter] Sharp I, et al. **Lancet** 1990 Jan 6;335(8680):55
Preventing heart disease [letter] Silverstein HR. **Lancet** 1990 Jan 27;335(8683):227
Smoking, estrogen, and prevention of heart disease in women [comment] Stampfer MJ. **Mayo Clin Proc** 1989 Dec; 64(12):1553–7 (16 ref.) Comment on: Mayo Clin Proc 1989 Dec;64(12):1471–80.
The use of computerized risk assessment for personal instruction in the primary prevention of ischaemic heart disease in a Japanese Automated Multiphasic Health Testing and Services Center. Hinohara S, et al. **Med Inf (Lond)** 1990 Jan–Mar;15(1):1–9
Health education, health promotion or drugs? Cholesterol and coronary heart disease [letter] Colquhoun D. **Med J Aust** 1990 Sep 3;153(5):305–6
Risk factors for coronary heart disease in a self-referred population compared with a general population [see comments] Gill TP, et al. **Med J Aust** 1989 Nov 6; 151(9):518, 521–2, 524–5 Comment in: Med J Aust 1990 Mar 19;152(6):331–2.
Health education, health promotion or drugs? Cholesterol

and coronary heart disease. Wilson A, et al. **Med J Aust** 1990 Jun 4;152(11):561–3 (39 ref.)

On changing the mass consciousness [interview by Richard L. Reece] Blackburn HW. **Minn Med** 1989 Dec;72(12):696, 729–31

Promoting health in the heartland. Feldman MK. **Minn Med** 1989 Dec;72(12):707–12

Hypercholesterolemia: whom and how to treat [letter] **N Engl J Med** 1990 Mar 8;322(10):696–8

Physician's health study: aspirin and primary prevention of coronary heart disease [letter] **N Engl J Med** 1989 Dec 28;321(26):1825–8

Effect of partial ileal bypass surgery on mortality and morbidity from coronary heart disease in patients with hypercholesterolemia. Report of the Program on the Surgical Control of the Hyperlipidemias (POSCH). Buchwald H, et al. **N Engl J Med** 1990 Oct 4; 323(14):946–55

Life–style changes as beneficial as open–heart surgery? [news] **Ohio Med** 1990 Jan;86(1):12

Heart RX is patient education. Sartori RJ. **Pa Med** 1990 Feb; 93(2):8–9

Perceived cardiac risks and beliefs about health and running in elite older runners. Sperry L. **Percept Mot Skills** 1990 Apr;70(2):661–2

Prevention of cardiovascular morbidity and mortality in hypertension: benefits of blood pressure reduction and cholesterol lowering. MacMahon S. **Postgrad Med J** 1989; 65 Suppl 1:S55–7 (26 ref.)

Oily fish and heart disease. Burr M. **Practitioner** 1990 Apr 22;234(1487):398, 401

Coronary heart disease: prevention and risk factors. Fowler G, et al. **Practitioner** 1989 Mar 22;233(1465):423–6

Screening for cholesterol? [editorial] Kerrigan P. **Practitioner** 1989 May 8;233(1468):627

Screening for cancer and coronary risk factors through a nurse practitioner–staffed preventive health clinic. Snow SG, et al. **Prev Med** 1989 Nov;18(6):817–23

Preventive cardiology. Reeves WC. **Proc Annu Meet Med Sect Am Counc Life Insur** 1989;:29–37

Advisability (or lack of it) of lipid lowering diets for the elderly. Albrink MJ. **Prog Clin Biol Res** 1990;326:109–28 (41 ref.)

Aging and the heart. Hetzel BS, et al. **Prog Clin Biol Res** 1990;326:21–37 (33 ref.)

Protection from myocardial ischemic injury in cats and pigs by defibrotide—different mode of action? Hohlfeld T, et al. **Prog Clin Biol Res** 1989;301:137–41

On the 7–oxo–PGI2 induced late appearing long–lasting cytoprotective effect. Szekeres L, et al. **Prog Clin Biol Res** 1989;301:143–7

Fish and the cardiovascular system. Burr ML. **Prog Food Nutr Sci** 1989;13(3–4):291–316 (72 ref.)

Pharmacologic protection of perfused rat heart against global ischemia. Katsuoka M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Dec; 38(3):151–6

Predictive value of factors of the hemostatic system in screening procedures for coronary artery disease. van de Loo JC. **Ric Clin Lab** 1989 Oct–Dec;19(4):333–8

Dietary recommendations for the prevention of coronary heart disease [letter] **S Afr Med J** 1990 May 5;77(9):482–3

Requirements of a coronary heart disease risk factor intervention programme for the coloured population of the Cape Peninsula. Steyn K, et al. **S Afr Med J** 1990 Jul 21; 78(2):78–81

Action limits in hyperlipidemia. Faergeman O. **Scand J Clin Lab Invest Suppl** 1990;198:82–5 (15 ref.)

Diet: opportunities and limitations. Leth A. **Scand J Clin Lab Invest Suppl** 1990;199:60–2 (5 ref.)

Influence of analytical quality and preanalytical variations on measurements of cholesterol in screening programmes. Petersen H, et al. **Scand J Clin Lab Invest Suppl** 1990; 198:66–72 (16 ref.)

What do we gain by modifying risk factors for coronary disease? Mitchell JR. **Schweiz Med Wochenschr** 1990 Mar 17;120(11):359–64

Myocardial infarction? Wright K. **Sci Am** 1989 Nov;261(5):30

Mediation of cardioprotection by transforming growth factor–beta. Lefer AM, et al. **Science** 1990 Jul 6; 249(4964):61–4

Population screening for plasma cholesterol: community–based results from Atlanta. Harris RE, et al. **South Med J** 1989 Nov;82(11):1370–6

Aspirin and exercise as a prophylaxis for heart disease. Is it safe? De Meersman RE. **Sports Med** 1990 Feb;9(2):71–5 (38 ref.)

The effects of exercise on coronary heart disease risk factors in children. Vaccaro P, et al. **Sports Med** 1989 Sep; 8(3):139–53 (173 ref.)

Quick reference to National Cholesterol Education Program: adult cholesterol treatment guidelines. Goldman DA. **Tex Med** 1989 Dec;85(12):28–9

Cholesterol education implications for clinical practice. Grundy SM, et al. **Tex Med** 1989 Dec;85(12):23–7

Cholesterol education program offers guidelines [editorial] Price C, et al. **Tex Med** 1989 Dec;85(12):4–5

Coronary risk factors in type II diabetes: response to low–intensity aerobic exercise. Yeater RA, et al. **W V Med J** 1990 Jul;86(7):287–90

Protective effects of gallopamil against ischemia and reperfusion damage. Ferrari R, et al. **Z Kardiol** 1989;78 Suppl 5:1–11

[Protective effects of Panax notoginseng saponins on experimental myocardial injury induced by ischemia and reperfusion in rat] Li X, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):26–9 (Eng. Abstr.) (Chi)

[Is the importance of HDL cholesterol underestimated as a pre– ventive factor in coronary disease?] Lehtonen A, et al. **Duodecim** 1989;105(15):1297–9 (15 ref.) (Fin)

[The Belgian project for the prevention of cardiovascular diseases: a model of multifactorial prevention] Kornitzer M. **Bull Mem Acad R Med Belg** 1989;144(1–2):101–9; discussion 110–2 (Eng. Abstr.) (Fre)

[The dual protective effect of fish oil in preventing coronary diseases] Golay A, et al. **Schweiz Med Wochenschr** 1989 Jul 11;119(27–28):965–9 (Eng. Abstr.) (Fre)

[Fish oil or the relative benefit of progress] Straub PW. **Schweiz Med Wochenschr** 1989 Jul 11;119(27–28):963–4 (Fre)

[Preventive cardiology in childhood and adolescence: risk factors, normal values and self measurement of blood pressure] Ratzmann GW. **Arztl Jugendkd** 1990;81(1):65–8 (Ger)

[Focal point: HDL. Prevention of coronary heart disease in the 1990's. Report of a symposium. Munich, 2–4 June 1989] **Fortschr Med** 1989;107 Suppl 74:1–11 (Ger)

[Medicamentous cardioprotection. 2: Hypertension] Michel D. **Fortschr Med** 1990 Feb 28;108(6):111–6 (51 ref.) (Eng. Abstr.) (Ger)

[Results of preventive screening of chimney sweeps] Kapfhammer G, et al. **Pneumologie** 1990 Jul;44(7):895–7 (Eng. Abstr.) (Ger)

[10 years' intervention in coronary risk factors in a rural community] Rhomberg HP, et al. **Wien Klin Wochenschr** 1989 Oct 27;101(20):703–5 (Eng. Abstr.) (Ger)

[Preventive drug therapy following coronary bypass surgery or PTCA] Lechleitner P, et al. **Wien Med Wochenschr** 1990 Jun 15;140(10–11):277–8, 281 (Eng. Abstr.) (Ger)

[Health behavior and cardiovascular risk factors in females in relation to their marital status] Wagner U, et al. **Z Gesamte Inn Med** 1990 Mar 1;45(5):125–8 (37 ref.) (Eng. Abstr.) (Ger)

[Can beta blockers reduce cardiac morbidity and mortality in hypertension] Zagher D, et al. **Harefuah** 1989 Oct; 117(7–8):203–4 (7 ref.) (Heb)

[National Conference on the Prevention of Ischemic Heart Disease. Guidelines for the 90's. Rome, 28–29 September 1987. Proceedings] **G Ital Cardiol** 1989 Sep;19(9):751–887 (Ita)

[Secondary prevention and cardiac rehabilitation] De Vita C, et al. **G Ital Cardiol** 1989 Sep;19(9):851–66; discussion 872–9 (Ita)

[Preventive interventions in national health programming] Guzzanti E. **G Ital Cardiol** 1989 Sep;19(9):867–71; discussion 872–9 (Ita)

[Antihypertensive therapy and primary prevention of ischemic cardiopathy] Mancia G. **G Ital Cardiol** 1990 Apr; 20(4):353–60 (37 ref.) (Ita)

[Methods of influencing life style and risk factors] Mancini M, et al. **G Ital Cardiol** 1989 Sep;19(9):787–99; discussion 811–9 (Ita)

[Possibilities and strategies for prevention of ischemic heart disease. Risk factors, trials, mass and individual strategies] Menotti A. **G Ital Cardiol** 1989 Sep;19(9):770–7; discussion 778–86 (Ita)

[The biological bases for prevention] Paoletti R, et al. **G Ital Cardiol** 1989 Sep;19(9):763–9; discussion 778–86 (Ita)

[Areas of intervention: production and preparation of foodstuffs, industry, sports, work, mass media] Ricci G, et al. **G Ital Cardiol** 1989 Sep;19(9):825–41; discussion 842–50 (Ita)

[The role of the Government, the National Health Service, the medical profession and the voluntary associations] Vetere C. **G Ital Cardiol** 1989 Sep;19(9):820–4; discussion 842–50 (Ita)

[The protective effect of diltiazem, a calcium channel blocker on myocardial ischemia during open heart surgery—an analysis of electrolyte changes in myocardial cells] Koike R. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):358–69 (Eng. Abstr.) (Jpn)

[Experimental study of coronary reactive hyperemia—effects of hypothermia and potassium cardioplegia] Umebayashi Y. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):1901–7 (Eng. Abstr.) (Jpn)

[Improvement of ischemic tolerance during percutaneous transluminal coronary angioplasty (PTCA) by nicardipine and trinitroglyceride (TNG)] Horiuchi K. **Nippon Naika Gakkai Zasshi** 1989 Sep;78(9):1299–307 (Jpn)

[Methods of preventing atherosclerosis and ischemic heart disease in vocational school students] Baszczyński J, et al. **Med Pr** 1990;41(1):57–61 (Eng. Abstr.) (Pol)

[Physiological characteristics and the level of risk factors for ischemic heart disease in marathon runners between 30 and 59 years of age] Kostka T, et al. **Pol Tyg Lek** 1989 Feb 6;44(6):144–6 (Eng. Abstr.) (Pol)

[Is hypolipemic treatment effective as a preventive measure?] Rywik S. **Przegl Lek** 1989;46(7):619–23 (Pol)

[Omega–3 fatty acids and ischemic heart disease] Batlouni M. **Arq Bras Cardiol** 1989 Apr;52(4):175–80 (64 ref.) (Por)

[Pre–ischemic protection of the myocardium with glutamic acid during heart valve prosthesis under artificial circulation] Shmerel'son MB, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):3–7 (Rus)

[The role of free radical inhibitors of lipid peroxidation in protecting the myocardium from ischemic damage] Konovalova GG, et al. **Arkh Patol** 1989;51(6):19–24 (Eng. Abstr.) (Rus)

[Electrical activity of the heart in anti–ischemic protection of the myocardium] Karpel' [illegible]. **Biull Eksp Biol Med** 1989 Jun;107(6):658–60 (Eng. Abstr.) (Rus)

[Ultrastructural characteristics of anti–ischemia protection of intact and hypertrophic myocardium with phosphocreatinine] Mogilevskiĭ GM, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):408–10 (Eng. Abstr.) (Rus)

[Prevention of stress–induced changes in coronary autoregulation of vasodilative reserve of the coronary vessels and contractile function of the isolated heart with small doses of thyroid hormones] Bozhko AP, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):30–5 (Eng. Abstr.) (Rus)

[Hyperkalemic normothermic hypoperfusion of the isolated heart] Olejnikov OD, et al. **Fiziol Zh** 1989 Sep–Oct; 35(5):72–5 (Eng. Abstr.) (Rus)

[Effect of thrombolytic, anticoagulant and anti–thrombocytic therapy on the development of left–ventricular thrombosis and the incidence of thromboembolic complications in patients with myocardial infarction] Chikvashvili DI, et al. **Kardiologiia** 1990 Apr;30(4):25–30 (Eng. Abstr.) (Rus)

[Effectiveness of the cooperative program of multifactorial prevention of ischemic heart disease (results of the 3–year study)] Domarkene SB, et al. **Kardiologiia** 1990 Apr; 30(4):95–8 (Eng. Abstr.) (Rus)

[Drugs in secondary prevention of ischemic heart disease: achievements, problems and prospects] Metelitsa VI. **Kardiologiia** 1989 Nov;29(11):57–62 (Eng. Abstr.) (Rus)

[Prognostic evaluation of the effects of nitroglycerin and corinfar in the prevention of stress–induced myocardial damage] Sudzhaeva SG, et al. **Kardiologiia** 1990 Apr; 30(4):103–5 (Rus)

[Gravitational surgical correction of the aggregative status of the blood in ischemic heart disease] Gavrilov OK. **Klin Med (Mosk)** 1989 Oct;67(10):8–12 (Eng. Abstr.) (Rus)

[Extracorporeal regulation of platelet aggregation in acute myocardial infarction] Klimovich LG, et al. **Sov Med** 1989; (9):10–5 (Rus)

[Risk factors of ischemic heart disease in workers of locomotive teams] Prazdnov AS. **Sov Med** 1989;(8):58–60 (Rus)

[Mass screening of coal miners with ischemic heart disease] Malaia LT, et al. **Sov Zdravookhr** 1990;(2):47–50 (Eng. Abstr.) (Rus)

[Effectiveness of primary multifactorial prevention of ischemic heart disease] Ushakov GN, et al. **Sov Zdravookhr** 1989;(9):34–7 (Rus)

[The prognostic significance of basic risk factors of ischemic heart disease and its changes in carrying out preventive measures] Chazova LV, et al. **Ter Arkh** 1989;61(8):87–92 (Eng. Abstr.) (Rus)

[Effectiveness of therapeutic–prophylactic measures in relation to the extent of their performance in a population of working–age men in Minsk] Fomina RF, et al. **Ter Arkh** 1989;61(11):89–92 (Eng. Abstr.) (Rus)

[Nutritional and risk–factor dynamics of ischemic heart disease during a 3–year prophylactic intervention in an organized population] Khaltaev NG, et al. **Ter Arkh** 1989; 61(11):102–7 (Eng. Abstr.) (Rus)

[Dyslipoproteinemias and coronary disease. Genetic markers] Sarriá Chueca A, et al. **An Esp Pediatr** 1989 Jun;30(6):425–8 (54 ref.) (Eng. Abstr.) (Spa)

[The importance of anti–oxidants in human nutrition (published erratum appears in Med Clin (Barc) 1990 Feb 24;94(7):254)] Romero Alvira D, et al. **Med Clin (Barc)** 1990 Jan 20;94(2):69–75 (126 ref.) (Spa)

[Children and dyslipemia] Assmann G, et al. **Rev Clin Esp** 1990 Mar;186(4):178–86 (25 ref.) (Spa)

[Perspectives on early prevention of coronary heart disease, especially in reference to Spain. Fernández–Cruz Lecture] Labarthe DR. **Rev Clin Esp** 1989 Nov;185(7):370–4 (20 ref.) (Spa)

[Effect of antihypertensive therapy on the prevalence of ischemic cardiopathy in arterial hypertension. New contributions] Tamargo J. **Rev Esp Cardiol** 1990;43 Suppl 1:9–17 (38 ref.) (Eng. Abstr.) (Spa)

PSYCHOLOGY

The changing psychosocial profile of patients before and after coronary artery bypass surgery: a preliminary report with the enlarged Bortner–scale. Weiss M, et al. **Act Nerv Super (Praha)** 1989 Oct;31(3):209–11

Adolescent health status, behaviors and cardiovascular disease. Adeyanju M. **Adolescence** 1990 Spring; 25(97):155–69

Clinical correlates and prognostic significance of type A behavior and silent myocardial ischemia on the treadmill. Siegel WC, et al. **Am J Cardiol** 1989 Dec 1;64(19):1280–3

Identification of a coronary–prone profile for business managers: comparison of three approaches to Type A assessment. Gray A, et al. **Behav Med** 1990 Summer; 16(2):67–75

Type A behaviour pattern: specific coronary risk factor or general disease–prone condition? Rimé B, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):229–40

Type A behaviour and coronary heart disease: when will the jury return? Evans PD. **Br J Psychol** 1990 May;81 (Pt 2):147–57 (50 ref.)

Preoperative anxiety and myocardial ischaemia: is there a relationship? Jolly D, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S77

Psychosocial factors in coronary heart disease. Weiss SM, et al. **Cardiovasc Clin** 1990;20(3):135–48 (105 ref.)

Quality of life in patients with ischaemic heart disease. Amarasekera N. **Ceylon Med J** 1989 Sep;34(3):109–11

Psychiatric depression, anxiety, and coronary heart disease. Carney RM, et al. **Compr Ther** 1989 Nov;15(11):8–13 (42 ref.)

Age-related differences in cardiovascular reactions to mental stress tests in women. Steptoe A, et al. **Health Psychol** 1990; 9(1):18–34

Relationship between JAS- and FTAS-Type A behavior and non–CHD illness: a prospective study controlling for negative affectivity. Suls J, et al. **Health Psychol** 1990; 9(4):479–92

Atypical angina in patients with coronary artery disease suggests panic disorder. Basha I, et al. **Int J Psychiatry Med** 1989;19(4):341–6

Psychosocial adjustment before and after coronary artery bypass surgery. Stein D, et al. **Int J Psychiatry Med** 1990; 20(2):181–92

An augmented structured interview for measuring subcomponents of the Type A behavior pattern. Wright L, et al. **Int J Psychiatry Med** 1990;20(1):85–96

Task Force III: Assessment of psychological status in patients with ischemic heart disease. Blumenthal JA, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1034–42

Smoking cessation and cardiovascular reactivity to stress. Emmons KM, et al. **J Behav Med** 1989 Dec;12(6):587–98

The Type A city: coronary heart disease and the pace of life. Levine RV, et al. **J Behav Med** 1989 Dec;12(6):509–24

Speech characteristics and coronary heart disease incidence in the multiple risk factor intervention trial. Scherwitz L, et al. **J Behav Med** 1990 Feb;13(1):75–91

Type A behavior and its association with cardiovascular disease prevalence in blacks and whites: the Minnesota Heart Survey. Sprafka JM, et al. **J Behav Med** 1990 Feb; 13(1):1–13

Gender differences in cardiovascular reactivity. Stone SV, et al. **J Behav Med** 1990 Apr;13(2):137–56

Measurement of the Type A behavior pattern in adolescents and young adults: cross-cultural development of AATAB. Wrzesniewski K, et al. **J Behav Med** 1990 Apr;13(2):111–35

Prevalence and sociodemographic variance of type A behavior in Finnish preadolescents, adolescents, and young adults. Räikkönen K, et al. **J Gen Psychol** 1989 Jul; 116(3):271–83

Type A behavior and exercise: a follow-up study of coronary patients. Abbott AV, et al. **J Psychosom Res** 1990; 34(2):153–62

Cynical Mistrust and the search for self-worth. Fontana AF, et al. **J Psychosom Res** 1989;33(4):449–56

Type A factors as predictors of somatic risk factors of coronary heart disease in young Finns—a six-year follow-up study. Keltikangas-Järvinen L, et al. **J Psychosom Res** 1990;34(1):89–97

Individual and cross-spouse correlations of perceptions of family functioning, blood pressure and dimensions of anger. Musante L, et al. **J Psychosom Res** 1990;34(4):393–9

Subjective sleep characteristics as coronary risk factors, their association with Type A behaviour and vital exhaustion. van Diest R. **J Psychosom Res** 1990;34(4):415–26

Type A behavior and self-reported stress among Zimbabwean teachers. Wilson D, et al. **J Soc Psychol** 1990 Feb;130(1):115–6

The relevance of psychosocial factors in acute ischemic heart disease. A case-control study of a Japanese population. Kayaba K, et al. **Jpn Circ J** 1990 Apr;54(4):464–71

Psychological effects of resistive weight training: implications for cardiac patients. Ewart CK. **Med Sci Sports Exerc** 1989 Dec;21(6):683–8 (20 ref.)

Panic disorder in cardiology patients. Beitman BD, et al. **Psychiatr Med** 1990;8(2):67–81 (49 ref.)

Personality, stress and disease: description and validation of a new inventory. Grossarth-Maticek R, et al. **Psychol Rep** 1990 Apr;66(2):355–73

Job and personal factors related to job stress and risk of developing coronary artery disease. Hendrix WH. **Psychol Rep** 1989 Dec;65(3 Pt 2):1136–8

Type A behavior pattern: facial behavior and speech components. Chesney MA, et al. **Psychosom Med** 1990 May–Jun;52(3):307–19

Long-term follow-up of the Ischemic Heart Disease Life Stress Monitoring Program [see comments] Frasure-Smith N, et al. **Psychosom Med** 1989 Sep–Oct;51(5):485–513 Comment in: Psychosom Med 1989 Sep–Oct;51(5):479–84.

Type A behavior, social support, and coronary risk: interaction and significance for mortality in cardiac patients. Orth-Gomér K, et al. **Psychosom Med** 1990 Jan–Feb;52(1):59–72

Unanswered questions in the Ischemic Heart Disease Life Stress Monitoring Program [comment] Powell LH. **Psychosom Med** 1989 Sep–Oct;51(5):479–84 Comment on: Psychosom Med 1989 Sep–Oct;51(5):485–513.

The Harvard Mastery of Stress Study 35-year follow-up: prognostic significance of patterns of psychophysiological arousal and adaptation. Russek LG, et al. **Psychosom Med** 1990 May–Jun;52(3):271–85

Ambulatory monitoring to assess real-life cardiovascular reactivity in Type A and Type B subjects. Van Egeren LF, et al. **Psychosom Med** 1990 May–Jun;52(3):297–306

Developmental trends in type A behavior as predictors for the development of somatic coronary heart disease risk factors. Keltikangas-Järvinen L, et al. **Psychother Psychosom** 1989;51(4):210–5

Depression and anxiety among chronically ill heart patients: age differences in risk and predictors. Nickel JT, et al. **Res Nurs Health** 1990 Apr;13(2):87–97

Normal values for Type A behaviour patterns in Danish men and women and in potential high-risk groups. Sterndorff B, et al. **Scand J Psychol** 1990;31(1):49–54

Occupational position and type A behavior: results from the first MONICA Survey, Augsburg, F.R.G. Härtel U, et al. **Soc Sci Med** 1989;29(12):1367–72

Development of a social support instrument for use in population surveys. Undén AL, et al. **Soc Sci Med** 1989; 29(12):1387–92

[Prevalence of a type A behavior pattern (coronary prone behavior pattern) in the Vienna population] Groll-Knapp E, et al. **Wien Klin Wochenschr** 1989 Sep 15;101(17):587–95 (Eng. Abstr.) (Ger)

[Psychosocial problems of elderly patients with cardiovascular diseases] Eichhorn G. **ZFA** 1989 Nov-Dec; 44(6):335–9 (Eng. Abstr.) (Ger)

[The role of psychological variables in the development of somatic diseases—proposal of the integrational model] Wrześniewski K. **Pol Tyg Lek** 1989 May 15;44(20):443–5 (Eng. Abstr.) (Pol)

[Psychological characteristics of patients with ischemic heart disease and behavioral risk factor (type A personality)] Polozhentsev SD, et al. **Kardiologiia** 1990 Apr;30(4):73–5 (Eng. Abstr.) (Rus)

RADIOGRAPHY

Polar presentation of coronary angiography and thallium-201 single photon emission computed tomography. A method for comparing anatomic and pathologic findings in coronary angiography with isotope distribution in thallium-201 myocardial SPECT. Svane B, et al. **Acta Radiol** 1989 Nov-Dec;30(6):561–74

Comparative analysis of coronary angiographic morphology following restenosis. Klein LW, et al. **Am Heart J** 1990 Jan;119(1):35–41

Thromboembolism in an angiographically normal coronary artery. Moriuchi M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1065–7

Gender differences in coronary angiographic findings from 1972 through 1981 in Los Angeles, California. Leaf DA, et al. **Angiology** 1990 Aug;41(8):609–15

Value of ultrafast CT scanning in cardiology. Lipton MJ, et al. **Br Med Bull** 1989 Oct;45(4):991–1010 (46 ref.)

The incidence of myocardial bridges in heart transplants. Wymore P, et al. **Cardiovasc Intervent Radiol** 1989 Jul–Aug;12(4):202–6

Isn't it time to abandon cine film? Holmes DR Jr, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):1–4

Optimal display of the coronary arterial tree with an upscan 1,023-line video display system. Holmes DR Jr, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):175–80

Reproducible uniform coronary vasomotor tone with nitrocompounds: prerequisite of quantitative coronary angiographic trials. Jost S, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):168–73

Approach to the patient with left main coronary artery stenosis. Kern MJ. **Cathet Cardiovasc Diagn** 1989 Nov; 18(3):181–2

Study of the performance of 5 French and 7 French catheters in coronary angiography: a functional comparison. Kohli RS, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):131–5

Cine angiographic findings in young Iraqi men with first acute myocardial infarction. al-Koubaisy OK, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):87–90 (19 ref.)

Internal mammary angiography: a review of technical issues and newer methods. Kuntz RE, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):10–6 (26 ref.)

Accuracy of subjective and computer-assisted assessments of angiographic left ventricular regional wall motion. Kussmaul WG 3d, et al. **Cathet Cardiovasc Diagn** 1990 Jul; 20(3):153–64

Coronary artery pseudothrombus: angiographic filling defects caused by competitive collateral flow. Weinberg BA, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):196–9

Relationship between clinical manifestations and coronary angiographic morphology in patients with coronary artery disease. Shen WF, et al. **Chin Med J [Engl]** 1989 Oct; 102(10):756–8

Computerized tabulation of cine coronary angiograms. Its implication for results of randomized trials. Favaloro RG. **Circulation** 1990 Jun;81(6):1992–2003 (74 ref.)

Assessment of the functional significance of coronary stenoses. Is digital angiography the answer? [comment] Nissen SE, et al. **Circulation** 1990 Apr;81(4):1431–5 Comment on: Circulation 1990 Apr;81(4):1331–40.

111In platelet imaging of left ventricular thrombi. Predictive value for systemic emboli [see comments] Stratton JR, et al. **Circulation** 1990 Apr;81(4):1182–9 Comment in: Circulation 1990 Apr;81(4):1419–21.

Can coronary angiography be justified as the initial step for evaluating patients with known or suspected coronary disease? An opinion. Conti CR. **Clin Cardiol** 1990 Feb; 13(2):67–8

Myocardial bridging of the coronary arteries [letter; comment] Partridge J. **Clin Radiol** 1990 Mar;41(3):217 Comment on: Clin Radiol 1989 Jul;40(4):355–9.

Coronary artery stenosis in patients with valvular heart disease. Pluta W, et al. **Cor Vasa** 1989;31(6):451–7

Coronary artery bypass with inverted internal mammary artery: angiographic evidence of late graft patency. Livi U, et al. **Eur J Cardiothorac Surg** 1990;4(2):107–8

Digital flashing tomosynthesis (DFTS)—a technique for three-dimensional coronary angiography. Stiel GM, et al. **Int J Card Imaging** 1989;5(1):53–61

Automatic detection method of stenotic lesions in coronary cineangiograms. Sugahara T, et al. **Int J Card Imaging** 1989; 5(1):17–23

A prospective angiographic study of the coronary collateral circulation in coronary arterial disease. Vyssoulis G, et al. **Int J Cardiol** 1990 May;27(2):187–91

Detection of mild coronary stenoses using the Dynamic Spatial Reconstructor. Spyra WJ, et al. **Invest Radiol** 1990 May;25(5):472–9

Quantification of coronary artery calcium using ultrafast computed tomography. Agatston AS, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):827–32

The value of angiography in the follow-up of coronary involvement in mucocutaneous lymph node syndrome (Kawasaki disease). Pahl E, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1318–25

Angiographic morphology of coronary artery stenoses in prolonged rest angina: evidence of intracoronary thrombosis [see comments] Rehr R, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1429–37 Comment in: J Am Coll Cardiol 1989 Nov 15;14(6):1438–9.

Cinevideodensitometric quantification of relative coronary arterial stenosis: application to evaluating candidates for percutaneous transluminal coronary angioplasty. Azuma A, et al. **J Cardiol** 1989 Jun;19(2):351–63

Influence of corticosteroid-free maintenance immunosuppression on allograft coronary artery disease after cardiac transplantation. Ratkovec RM, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):6–12

The influence of diet on the appearance of new lesions in human coronary arteries. Blankenhorn DH, et al. **JAMA** 1990 Mar 23–30;263(12):1646–52

Diagnosis of coronary sinus diverticulum in Wolff-Parkinson-White syndrome using coronary angiography. Stamato N, et al. **PACE** 1989 Oct; 12(10):1589–91

Arterial disease risk factors and angiographic evidence of atheroma of the carotid artery [see comments] Schneidau A, et al. **Stroke** 1989 Nov;20(11):1466–71 Comment in: Stroke 1990 Jul;21(7):1092.

Assessment of the vasomotility of epicardial coronary arteries with quantitative coronary angiography. Jost S, et al. **Z Kardiol** 1989;78 Suppl 6:143–8 (29 ref.)

[Noninvasive coronary angiography with synchrotron irradiation] Dix WR, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:79–80 (Ger)

[Densitometry quantification of coronary angiograms using coronary muscle calibration following elimination of scattering and distortion errors] Solzbach U, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:68–9 (Ger)

[Multi-parameter classification exemplified by left ventricular angiograms] Waltenspiel R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:50–1 (Ger)

[Coronary angiography and ventriculography] Kupper W, et al. **Internist (Berl)** 1990 May;31(5):341–9 (36 ref.) (Ger)

[The effect of ionic and nonionic x-ray contrast media on myocardial perfusion and myocardial function] Jonczyk A, et al. **Radiol Diagn (Berl)** 1989;30(3):314–9 (Eng. Abstr.) (Ger)

[The effect of ionic and nonionic contrast media (amidotrizoate, iopromide) on cardiac function (contractility, relaxation, perfusion)] Modersohn D, et al. **Radiol Diagn (Berl)** 1989;30(3):320–3 (Eng. Abstr.) (Ger)

[Venous digital subtraction angiography of the left ventricle in comparison with conventional angiography] Rother T, et al. **Z Gesamte Inn Med** 1990 Mar 1;45(5):133–7 (Eng. Abstr.) (Ger)

[Functional angiocardiography] Bürsch JH. **Z Kardiol** 1989; 78 Suppl 7:181–6 (9 ref.) (Eng. Abstr.) (Ger)

[Computer-assisted contour detection in a complete heart cycle by levocardiography with adaptive raster tracking—validation of the method] Elfner R, et al. **Z Kardiol** 1990 May;79(5):347–53 (Eng. Abstr.) (Ger)

[Status of the technic of angiography procedures] Just H, et al. **Z Kardiol** 1989;78 Suppl 7:97–105 (9 ref.) (Eng. Abstr.) (Ger)

[Videometry and videodensitometry: possibilities within the scope of clinical angiocardiography] Simon R. **Z Kardiol** 1989;78 Suppl 7:173–80 (28 ref.) (Eng. Abstr.) (Ger)

[Chronic isolated occlusion of the main stem detected with angiography] Steffenino G, et al. **Cardiologia** 1989 Nov; 34(11):973–5 (Eng. Abstr.) (Ita)

[Comparisons of images simultaneously documented by digital subtraction coronary arteriography and cine

coronary arteriography] Kimura K, et al. **J Cardiol** 1988 Dec;18(4):889–97 (Eng. Abstr.) **(Jpn)**

[Analysis of digital subtraction angiography for estimating flow reserve in critical coronary artery stenosis] Kotoku S, et al. **J Cardiol** 1988 Dec;18(4):899–912 (Eng. Abstr.) **(Jpn)**

[Accuracy of detecting stenotic changes on coronary cineangiograms using computer image processing] Sugahara T, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1990 May 25; 50(5):533–8 (Eng. Abstr.) **(Jpn)**

[Coronary calcification in cinefluoroscopy: the noninvasive diagnosis of ischemic myocardial disease masquerading as dilated cardiomyopathy] Yamanaka O.
Nippon Naika Gakkai Zasshi 1989 Jul;78(7):899–904 **(Jpn)**

[Radiographic diagnosis of calcinosis of the coronary arteries in young patients] Tseluĭko VI, et al. **Kardiologiia** 1990 Mar;30(3):103–5 **(Rus)**

[Wide-screen fluorography in the diagnosis of ischemic heart disease and arterial hypertension] Nizovtsova LA.
Vestn Rentgenol Radiol 1989 Sep–Oct;(5):40–7 (Eng. Abstr.) **(Rus)**

[Optimization of the method of x-ray contrast left ventriculography] Savchenko AP, et al.
Vestn Rentgenol Radiol 1990 Jan–Feb;(1):32–6 (Eng. Abstr.) **(Rus)**

[A comparative evaluation of cinecoronarography and digital subtraction coronarography] Savchenko AP, et al.
Vestn Rentgenol Radiol 1989 Sep–Oct;(5):55–8 (Eng. Abstr.) **(Rus)**

[Inadvertently detected coronary shunts] Kerný J, et al.
Vnitr Lek 1990 May;36(5):435–45 (Eng. Abstr.) **(Slo)**

RADIONUCLIDE IMAGING

Appraisal of false positive results in nuclear cardiac imaging [editorial] Iskandrian AS, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):708–9

Pulmonary thallium uptake: correlation with systolic and diastolic left ventricular function at rest and during exercise. Mannting F. **Am Heart J** 1990 May; 119(5):1137–46

Relationship between regional myocardial blood flow and the distribution of 99mTc-sestamibi in the presence of total coronary artery occlusion. Mousa SA, et al.
Am Heart J 1990 Apr;119(4):842–7

Influence of temporal smoothing on quantitation of left ventricular function by gated blood pool scintigraphy. Bonow RO, et al. **Am J Cardiol** 1989 Oct 15;64(14):921–5

Prognostic value of intravenous dipyridamole thallium imaging in patients with diabetes mellitus considered for renal transplantation. Camp AD, et al. **Am J Cardiol** 1990 Jun 15;65(22):1459–63

Significance of dipyridamole-induced transient dilation of the left ventricle during thallium-201 scintigraphy in suspected coronary artery disease. Chouraqui P, et al.
Am J Cardiol 1990 Sep 15;66(7):689–94

Left ventricular diastolic volume changes by exercise radionuclide ventriculography in normal subjects and in patients with coronary arterial narrowing [letter; comment] Freeman MR. **Am J Cardiol** 1990 Mar 15;65(11):826 Comment on: Am J Cardiol 1989 Mar 1;63(9):522–5.

Prognostic significance of silent myocardial ischemia on a thallium stress test. Heller LI, et al. **Am J Cardiol** 1990 Mar 15;65(11):718–21

Usefulness of semiquantitative analysis of dipyridamole-thallium-201 redistribution for improving risk stratification before vascular surgery. Levinson JR, et al. **Am J Cardiol** 1990 Aug 15;66(4):406–10

Risk stratification of single or double vessel coronary artery disease and impaired left ventricular function using exercise radionuclide angiography. Miller TD, et al.
Am J Cardiol 1990 Jun 1;65(20):1317–21

Value of thallium-201 reinjection after delayed SPECT imaging for predicting reversible ischemia after coronary artery bypass grafting. Ohtani H, et al. **Am J Cardiol** 1990 Aug 15;66(4):394–9

Comparison of thallium redistribution with rest "reinjection" imaging for the detection of viable myocardium. Rocco TP, et al. **Am J Cardiol** 1990 Jul 15;66(2):158–63

Detection of multivessel disease in patients with sustained myocardial infarction by thallium 201 myocardial scintigraphy: no additional value of quantitative analysis. Niemeyer MG, et al. **Am J Physiol Imaging** 1989; 4(3):105–14

Dipyridamole radionuclide ventriculography in patients with coronary artery disease: comparison with ergometer exercise. Konishi T, et al. **Angiology** 1990 Jul;41(7):518–24

Myocardial imaging using thallium 201 scintigraphy after dipyridamole infusion: a case history. Niemeyer MG, et al. **Angiology** 1989 Dec;40(12):1065–71

Nuclear cardiology in the detection of coronary artery disease—an overview of its role in the Singapore General Hospital. Woo BY, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):104–7 (15 ref.)

Diagnosis of coronary artery disease [letter] Gladstone LL. **Ann Intern Med** 1990 Sep 1;113(5):410–1

Analysis of thallium-201 myocardial SPECT images using fuzzy set theory. Jamzad M, et al. **Ann Nucl Med** 1988 Nov;2(2):63–71

Thallium-201 myocardial scintigraphic evidence of ischemia in a patient with angina pectoris and normal coronary arteriogram: significance of thallium-201 washout analysis. Shimizu T, et al. **Ann Nucl Med** 1989 Mar;3(1):41–4

Preoperative evaluation of cardiac risk using dobutamine-thallium imaging in vascular surgery. Zellner JL, et al. **Ann Vasc Surg** 1990 May;4(3):238–43

Gated microsphere technique in the evaluation of myocardial perfusion. Clinical application and research. L'Abbate A, et al. **Bibl Cardiol** 1989;(44):79–87; discussion 87–8

Clinical assessment of myocardial perfusion with thallium-201. Wackers FJ. **Bibl Cardiol** 1989;(44):60–76; discussion 76–8

Whole heart distribution of myocardial perfusion, metabolism and myocardial viability by positron emission tomography. Araujo LI, et al. **Br Med Bull** 1989 Oct;45(4):922–32 (11 ref.)

Technical introduction to nuclear imaging. Dymond DS. **Br Med Bull** 1989 Oct;45(4):838–47 (15 ref.)

Radionuclide assessment of ventricular function in patients with coronary artery disease: clinical perspective. Dymond DS. **Br Med Bull** 1989 Oct;45(4):881–95 (37 ref.)

Dipyridamole–thallium myocardial scanning in the preoperative assessment of patients undergoing abdominal aortic aneurysmectomy. Grant RP, et al. **Can J Anaesth** 1990 May;37(4 Pt 1):409–15

Ischemic left ventricular dysfunction assessed on ECG–gated thallium–201 myocardial perfusion images. Hurwitz GA, et al. **Can J Cardiol** 1990 May;6(4):140–6

Estimation of left ventricular function on ECG–gated thallium–201 myocardial perfusion images. Hurwitz GA, et al. **Can J Cardiol** 1989 Oct;5(7):343–51

Functional cardiac imaging in coronary disease: increased sensitivity of first-pass radionuclide angiography utilizing sequential regional left ventricular early diastolic filling rate images. Murray GL, et al. **Cardiologia** 1990 Jan;35(1):25–32

Clinical cardiac PET using generator-produced Rb-82: a review. Gould KL. **Cardiovasc Intervent Radiol** 1989 Sep–Oct;12(5):245–51 (70 ref.)

Value of radionuclide-determined changes in pulmonary blood volume for the detection of coronary artery disease. Hanley PC, et al. **Chest** 1990 Jan;97(1):7–11

Assessment of left ventricular function using radionuclide angiography after dipyridamole infusion. Indolfi C, et al. **Chest** 1989 Nov;96(5):1026–30

Delayed redistribution in thallium 201 SPECT myocardial perfusion studies. Ziessman HA, et al. **Chest** 1989 Nov; 96(5):1031–5

Alterations in left ventricular diastolic function in chronic ischemic heart failure. Assessment by radionuclide angiography. Bareiss P, et al. **Circulation** 1990 Feb;81(2 Suppl):III71–7

Myocardial kinetics of Tc-MIBI in canine myocardium after dipyridamole. Glover DK, et al. **Circulation** 1990 Feb; 81(2):628–37

Dual isotope thallium and indium antimyosin SPECT imaging to identify acute infarct patients at further ischemic risk. Johnson LL, et al. **Circulation** 1990 Jan;81(1):37–45

Diagnosis of coronary artery disease by controlled coronary vasodilation with adenosine and thallium-201 scintigraphy in patients unable to exercise [see comments] Verani MS, et al. **Circulation** 1990 Jul;82(1):80–7 Comment in: Circulation 1990 Jul;82(1):308–9.

Failure of dipyridamole–thallium myocardial imaging to detect severe coronary disease. Chin W, et al.
Cleve Clin J Med 1989 Sep;56(6):587–9

Radionuclide assessment of left ventricular function during dobutamine infusion in patients with coronary artery disease: comparison with ergometer exercise. Konishi T, et al. **Clin Cardiol** 1990 Mar;13(3):183–8

Dipyridamole thallium imaging may not be a reliable screening test for coronary artery disease in patients undergoing vascular surgery. Marwick TH, et al.
Clin Cardiol 1990 Jan;13(1):14–8

Update on intravenous dipyridamole cardiac imaging in the assessment of ischemic heart disease. Younis LT, et al.
Clin Cardiol 1990 Jan;13(1):3–10 (52 ref.)

Myocardial clearance of Tc-99m hexakis-2-methoxy-2-methylpropyl isonitrile (MIBI) in patients with coronary artery disease. Franceschi M, et al. **Clin Nucl Med** 1990 May;15(5):307–12

Constrictive pericarditis causing a positive TI-201 SPECT stress test for myocardial ischemia. Matthews RJ, et al. **Clin Nucl Med** 1990 Aug;15(8):548–51

An automated analysis technique for thallium images. Martin W, et al. **Clin Phys Physiol Meas** 1989 Aug;10(3):259–66

Exercise thallium-201 scintigraphy in the localization of myocardial ischaemia. Korkeila P, et al. **Clin Physiol** 1989 Dec;9(6):555–65

Prognosis and diagnostic work-up in patients admitted for, but without, myocardial infarction—the value of nuclear medicine examinations. Launbjerg J, et al. **Clin Physiol** 1990 May;10(3):273–7

Quantitative thallium imaging. Charron M, et al.
Crit Rev Diagn Imaging 1989;29(4):409–33 (108 ref.)

The use of radionuclide techniques for identification of severe coronary disease. Gibbons RJ. **Curr Probl Cardiol** 1990 Jun; 15(6):301–52 (75 ref.)

Thallium-201 scintigraphy after dipyridamole infusion with low level exercise. II. Quantitative analysis vs visual analysis. Laarman GJ, et al. **Eur Heart J** 1990 Feb; 11(2):162–72

Comparative value of visual and quantitative analysis of thallium-201 imaging after exercise in patients with an abnormal baseline repolarization on the electrocardiogram at rest. Niemeyer MG, et al. **Eur Heart J** 1990 May; 11(5):413–20

Methoxyisobutylisonitrile (MIBI) Tc 99m SPECT to establish a correlate to coronary flow reserve, the perfusion reserve, from global and regional myocardial uptake after exercise and rest. Buell U, et al. **Eur J Nucl Med** 1990; 16(1):3–9

Quantitative measurement of regional myocardial blood flow in patients with coronary artery disease by intravenous injection of 13N-ammonia in positron emission tomography. Hara T, et al. **Eur J Nucl Med** 1990; 16(4–6):231–5

Segmental analysis of SPECT 99mTc-methoxy isobutyl isonitrile and 201Tl myocardial imaging in ischaemic heart disease. Hassan IM, et al. **Eur J Nucl Med** 1990; 16(8–10):705–11

The metabolism of 15-p-[123I]-iodophenylpentadecanoic acid in a surgically induced canine model of regional ischemia. Hudon MP, et al. **Eur J Nucl Med** 1990; 16(4–6):199–204

Determination of left ventricular wall motility injury by factor analysis in patients with advanced ischemic heart disease. Kasalický J, et al. **Eur J Nucl Med** 1989; 15(12):767–70

99mTc-MIBI (RP-30) to define the extent of myocardial ischemia and evaluate ventricular function. Larock MP, et al. **Eur J Nucl Med** 1990;16(4–6):223–30

A new method for quantification of pulmonary thallium uptake in myocardial SPECT studies. Mannting F.
Eur J Nucl Med 1990;16(4–6):213–22

Is quantitative analysis superior to visual analysis of planar thallium 201 myocardial exercise scintigraphy in the evaluation of coronary artery disease? Analysis of a prospective clinical study. Niemeyer MG, et al.
Eur J Nucl Med 1990;16(8–10):697–704

Regional rates of myocardial fatty acid metabolism: comparison with coronary angiography and ventriculography. Schad N, et al. **Eur J Nucl Med** 1990; 16(4–6):205–12

Comments to: Clinical Comparison Between Thallium 201 and Tc-99m-Methoxy Isobutyl Isonitrile (Hexamibi) Myocardial Perfusion Imaging for Detection of Coronary Artery Disease [letter; comment] Whalley DR.
Eur J Nucl Med 1989;15(12):805 Comment on: Eur J Nucl Med 1989;15(6):280–6.

Quantitative thallium-201 myocardial exercise scintigraphy in normal subjects and patients with normal coronary arteries. Niemeyer MG, et al. **Eur J Radiol** 1990 Jan–Feb; 10(1):19–27

Dipyridamole thallium-201 perfusion imaging for the study of ischemic heart disease in hemodialysis patients. Marcen R, et al. **Int J Artif Organs** 1989 Dec;12(12):773–7

Exercise myocardial perfusion scintigraphy with technetium-99m methoxy isobutylisonitrile: a comparative study with thallium-201. Najm YC, et al. **Int J Cardiol** 1990 Jan;26(1):93–102

Dipyridamole thallium-201 scintigraphy: an excellent alternative to exercise scintigraphy [comment] Beller GA. **J Am Coll Cardiol** 1989 Dec;14(7):1642–4 Comment on: J Am Coll Cardiol 1989 Dec;14(7):1635–41.

Technetium-99m isonitrile myocardial uptake at rest. I. Relation to severity of coronary artery stenosis [see comments] Dilsizian V, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1673–7 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1685–8.

How accurate is thallium exercise testing for the diagnosis of coronary artery disease? [comment] Gould KL.
J Am Coll Cardiol 1989 Nov 15;14(6):1487–90 Comment on: J Am Coll Cardiol 1989 Nov 15;14(6):1477–86.

Silent ischemia: evaluation by exercise and redistribution tomographic thallium-201 myocardial imaging. Hecht HS, et al. **J Am Coll Cardiol** 1989 Oct;14(4):895–900

Prognostic value of dipyridamole thallium scintigraphy for evaluation of ischemic heart disease [see comments] Hendel RC, et al. **J Am Coll Cardiol** 1990 Jan;15(1):109–16 Comment in: J Am Coll Cardiol 1990 Jan;15(1):117–8.

Effect of exercise level on the ability of thallium-201 tomographic imaging in detecting coronary artery disease: analysis of 461 patients [see comments] Iskandrian AS, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1477–86 Comment in: J Am Coll Cardiol 1989 Nov 15;14(6):1487–90.

Quantitative single photon emission computed thallium-201 tomography for detection and localization of coronary artery disease: optimization and prospective validation of a new technique [see comments] Maddahi J, et al.
J Am Coll Cardiol 1989 Dec;14(7):1689–99 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1700–1.

Quantitative exercise thallium-201 single photon emission computed tomography for the enhanced diagnosis of ischemic heart disease [see comments] Mahmarian JJ, et al. **J Am Coll Cardiol** 1990 Feb;15(2):318–29 Comment in: J Am Coll Cardiol 1990 Feb;15(2):330–3.

Single photon emission computed tomography (SPECT): 1989 and beyond [editorial; comment] Ritchie JL, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1700–1 Comment on: J Am Coll Cardiol 1989 Dec;14(7):1689–99.

In vivo delineation of myocardial hypoxia during coronary occlusion using fluorine-18 fluoromisonidazole and positron emission tomography: a potential approach for identification of jeopardized myocardium [see comments] Shelton ME, et al. **J Am Coll Cardiol** 1990 Aug;

16(2):477–85 Comment in: J Am Coll Cardiol 1990 Aug;16(2):486–8.

Effect of ischemia and postischemic dysfunction on myocardial uptake of technetium–99m–labeled methoxyisobutyl isonitrile and thallium–201. Sinusas AJ, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1785–93

Positron emission tomography and the quantitative assessment of regional myocardial blood flow [comment] Soufer R, et al. **J Am Coll Cardiol** 1990 Jan;15(1):128–30 Comment on: J Am Coll Cardiol 1990 Jan;15(1):119–27.

Dipyridamole thallium scintigraphy and prognosis in coronary artery disease [editorial; comment] Willerson JT. **J Am Coll Cardiol** 1990 Jan;15(1):117–8 Comment on: J Am Coll Cardiol 1990 Jan;15(1):109–16.

Exercise thallium–201 single photon emission computed tomography for the diagnosis of coronary artery disease: what should we expect from SPECT? [comment] Williams KA, et al. **J Am Coll Cardiol** 1990 Feb;15(2):330–3 Comment on: J Am Coll Cardiol 1990 Feb;15(2):318–29.

The frequency of late reversibility in SPECT thallium–201 stress–redistribution studies [see comments] Yang LD, et al. **J Am Coll Cardiol** 1990 Feb;15(2):334–40 Comment in: J Am Coll Cardiol 1990 Feb;15(2):341–4.

Prognostic importance of silent myocardial ischemia detected by intravenous dipyridamole thallium myocardial imaging in asymptomatic patients with coronary artery disease [see comments] Younis LT, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1635–41 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1642–4.

Non–invasive evaluation of global ventricular functions in coronary artery disease by exercise radionuclide angiocardiography. Khanna CM, et al. **J Assoc Physicians India** 1989 Oct;37(10):635–8

Isoproterenol stress thallium scintigraphy for detecting coronary artery disease. Watanabe S, et al. **J Cardiol** 1989 Sep;19(3):657–65

Pentoxifylline (Trental) does not inhibit dipyridamole–induced coronary hyperemia: implications for dipyridamole–thallium–201 myocardial imaging [see comments] Brown KA, et al. **J Nucl Med** 1990 Jun; 31(6):1020–4 Comment in: J Nucl Med 1990 Jun;31(6):1024–7.

Iodophenylpentadecanoic acid–myocardial blood flow relationship during maximal exercise with coronary occlusion. Caldwell JH, et al. **J Nucl Med** 1990 Jan; 31(1):99–105

Automated quantitation of three–dimensional cardiac positron emission tomography for routine clinical use [published erratum appears in J Nucl Med 1990 Feb;31(2):251–2] Hicks K, et al. **J Nucl Med** 1989 Nov; 30(11):1787–97

Reversibility bull's-eye: a new polar bull's-eye map to quantify reversibility of stress–induced SPECT thallium–201 myocardial perfusion defects. Klein JL, et al. **J Nucl Med** 1990 Jul;31(7):1240–6

Quantitative analysis of planar technetium–99m–sestamibi myocardial perfusion images using modified background subtraction [see comments] Koster K, et al. **J Nucl Med** 1990 Aug;31(8):1400–8 Comment in: J Nucl Med 1990 Aug;31(8):1409–11.

Myocardial redistribution of technetium–99m–methoxyisobutyl isonitrile (SESTAMIBI). Li QS, et al. **J Nucl Med** 1990 Jun; 31(6):1069–76

Diagnosis of coronary artery disease by radionuclide angiography: effect of combining indices of left ventricular function. Pace L, et al. **J Nucl Med** 1989 Dec; 30(12):1966–71

Effect of regional myocardial ischemia on sympathetic nervous system as assessed by fluorine–18–metaraminol. Schwaiger M, et al. **J Nucl Med** 1990 Aug;31(8):1352–7

Pharmacologic stress with dipyridamole: how lazy can one be? [comment] Wackers FJ. **J Nucl Med** 1990 Jun; 31(6):1024–7 (27 ref.) Comment on: J Nucl Med 1990 Jun;31(6):1020–4.

Quantitative analysis of regional wall motion by gated myocardial positron emission tomography: validation and comparison with left ventriculography. Yamashita K, et al. **J Nucl Med** 1989 Nov;30(11):1775–86

Diagnostic accuracy of single photon emission computed tomography with thallium–201 for the identification of diseased coronary arteries. Comparison between dipyridamole infusion and exercise stress test. Dondi M, et al. **J Nucl Med Allied Sci** 1990 Jan–Mar;34(1):19–23

Clinical indications to cardiac nuclear imaging. Giubbini R, et al. **J Nucl Med Allied Sci** 1989 Oct–Dec;33(4):351–8

Combined pharmacologic and exercise stress myocardial scintigraphy: a practical method for assessment of potential cardiac ischemia in patients with limited exercise capacity. Brooker JZ. **J S C Med Assoc** 1990 Mar;86(3):143–7

Advances in pulmonary and cardiac nuclear medicine. **J Thorac Imaging** 1990 Jul;5(3):1–88

Cardiac positron emission tomography: the foundations and clinical applications. Chan SY, et al. **J Thorac Imaging** 1990 Jul;5(3):9–19 (88 ref.)

Applications of exercise radionuclide ventriculography in the clinical management of patients with coronary artery disease. Rozanski A. **J Thorac Imaging** 1990 Jul;5(3):37–46 (33 ref.)

Cardiac imaging with technetium 99m–labeled isonitriles. Sinusas AJ, et al. **J Thorac Imaging** 1990 Jul;5(3):20–30 (46 ref.)

Enhanced detection of ischemic but viable myocardium by the reinjection of thallium after stress–redistribution imaging [see comments] Dilsizian V, et al. **N Engl J Med** 1990 Jul 19;323(3):141–6 Comment in: N Engl J Med 1990 Jul 19;323(3):190–2.

The value of thallium–201 imaging [editorial; comment] Pohost GM, et al. **N Engl J Med** 1990 Jul 19;323(3):190–2 Comment on: N Engl J Med 1990 Jul 19;323(3):141–6.

Positron emission tomography (PET): a unique approach for the imaging of in vivo metabolism. Loken MK, et al. **Nebr Med J** 1989 Nov;74(11):333–9 (16 ref.)

99Tcm–methoxy–isobutyl–isonitrile SPECT to evaluate a perfusion index from regional myocardial uptake after exercise and at rest. Results of a four hour protocol in patients with coronary heart disease and in controls. Buell U, et al. **Nucl Med Commun** 1990 Feb;11(2):77–94

Ventricular systolic and diastolic rate indices in patients with either normal or low resting left ventricular ejection fraction. Hassan IM, et al. **Nucl Med Commun** 1989 Sep; 10(9):669–78

PET and SPECT to achieve diagnostic impact. Buell U. **Nuklearmedizin** 1990 Mar;29(2):71–6 (30 ref.)

Myocardial scintigraphy with 201thallium in pediatric cardiology: a review of 52 cases. Björkhem G, et al. **Pediatr Cardiol** 1990 Jan;11(1):1–7

Perfusion thallium imaging of type I diabetes patients with end stage renal disease: comparison of oral and intravenous dipyridamole administration. Boudreau RJ, et al. **Radiology** 1990 Apr;175(1):103–5

Demarcation of myocardial ischemia: magnetic susceptibility effect of contrast medium in MR imaging. Saeed M, et al. **Radiology** 1989 Dec;173(3):763–7

Radionuclide studies in the evaluation of ischemic heart disease. Pfisterer M. **Rev Port Cardiol** 1990 Feb;9(2):167–71 (26 ref.)

Ineffectiveness of dipyridamole SPECT thallium imaging as a screening technique for coronary artery disease in patients with end–stage renal failure. Marwick TH, et al. **Transplantation** 1990 Jan;49(1):100–3

[Observer variations in computerized 201 thallium myocardial scintigraphy] Vestbo J, et al. **Ugeskr Laeger** 1990 Sep 3;152(36):2566–7 (Eng. Abstr.) (Dan)

[Detection of coronary restenosis using myocardial tomoscintigraphy with thallium 201. A series of 85 cases] Lusson JR, et al. **Arch Mal Coeur** 1989 Oct;82(10):1679–83 (Eng. Abstr.) (Fre)

[The limitations of myocardial scintigraphy in the preoperative evaluation of the coronary vessels] Orlowski P, et al. **Cah Anesthesiol** 1989 Sep;37(5):315–8 (7 ref.) (Fre)

[Diagnostic approach in coronary disease in vascular surgery. Role of myocardial scintigraphy] Gillet T, et al. **J Mal Vasc** 1990;15(1):55–62 (26 ref.) (Eng. Abstr.) (Fre)

[Reliability of scintigraphic methods in the diagnosis of coronary insufficiency] Delcourt E, et al. **Rev Med Brux** 1989 Nov;10(9):371–7 (Eng. Abstr.) (Fre)

[Imaging of intra–cardiac thrombi with indium 111 scintigraphy] Eichstädt H, et al. **Acta Med Austriaca** 1989; 16(5):97–101 (Eng. Abstr.) (Ger)

[Nuclear medicine methods in cardiologic diagnosis] Botsch H. **Internist (Berl)** 1990 May;31(5):333–7 (20 ref.) (Ger)

[The value of positron emission tomography (PET) in cardiologic diagnosis] Henze E. **Internist (Berl)** 1990 May; 31(5):338–40 (Ger)

[PET and SPECT in the diagnosis of coronary heart disease, brain diseases and malignant tumors. Symposium. 21 October 1989, Aachen] **Nuklearmedizin** 1990 Mar; 29(2):71–84 (Ger)

[Tl–201 myocardial SPECT in silent myocardial ischemia and angiographically proven coronary heart disease] Eber B, et al. **Wien Klin Wochenschr** 1989 Sep 15;101(17):574–9 (Eng. Abstr.) (Ger)

[Possibilities for imaging intracardiac thrombi with indium 111 thrombocyte scintigraphy] Eichstädt H, et al. **Z Gesamte Inn Med** 1989 Dec 15;44(24):721–5 (Eng. Abstr.) (Ger)

[Cardiac positron emission tomography—current status and future perspectives] Armbrecht JJ, et al. **Z Kardiol** 1990 Mar;79(3):151–60 (78 ref.) (Eng. Abstr.) (Ger)

[Quantitative image analysis in nuclear cardiology as a decision aid in addition to visual assessment of findings] Clausen M, et al. **Z Kardiol** 1989;78 Suppl 7:165–72 (34 ref.) (Eng. Abstr.) (Ger)

[Effects of gallopamil on iodine–123–phenyl–pentadecanoic acid and thallium 201 uptake in patients with coronary heart disease] Tillmanns H, et al. **Z Kardiol** 1989;78 Suppl 5:77–82 (Eng. Abstr.) (Ger)

[Perfusion scintigraphy using thallium–201 in patients with previous transmural and non–transmural myocardial infarctions] Astorri E. **Cardiologia** 1989 Dec;34(12):1007–12 (Eng. Abstr.) (Ita)

[Changes in R wave voltage during exercise: are they a sign of changes in ventricular volume or of myocardial ischemia?] Ciavolella M, et al. **Cardiologia** 1990 Jan; 35(1):33–40 (Eng. Abstr.) (Ita)

[Thallium–201 re–injection: a new method for the identification of viable myocardium in patients with fixed deficits of myocardial uptake] Pieri P, et al. **G Ital Cardiol** 1989 Dec;19(12):1086–93 (Eng. Abstr.) (Ita)

[Detection and classification of coronary artery disease by dipyridamole perfusion scintigraphy: its prognostic significance] Hamashige N, et al. **J Cardiol** 1989 Sep; 19(3):667–78 (Eng. Abstr.) (Jpn)

[Ischemic heart disease evaluated by exercise stress thallium–201 myocardial scintigraphy: a comparison of SPECT and bull's eye display] Hazaki R, et al. **J Cardiol** 1989 Sep;19(3):679–86 (Eng. Abstr.) (Jpn)

[Quantitation of the severity of coronary artery disease using thallium–201 tomographic scores] Okano M, et al. **J Cardiol** 1988 Dec;18(4):935–47 (Eng. Abstr.) (Jpn)

[Value and limitations of myocardial scintigraphy] **J Cardiol Suppl** 1989;20:17–22 (Jpn)

[Clinical significance of negative dipyridamole perfusion scintigram] Kuzume O, et al. **Kaku Igaku** 1989 Jun; 26(6):753–62 (Eng. Abstr.) (Jpn)

[Three dimensional model constructed from Tl–201 myocardial SPECT in combination with bull's–eye mapping] Maeda H, et al. **Kaku Igaku** 1990 Mar; 27(3):209–20 (Eng. Abstr.) (Jpn)

[Development of a new quantitative analysis for thallium myocardial SPECT images—quantitative STEREO–VIEW method and evaluation of its clinical usefulness] Matsuda H, et al. **Kaku Igaku** 1989 Jul; 26(7):845–54 (Eng. Abstr.) (Jpn)

[An attempt of thallium–201 myocardial perfusion imaging during transient coronary arterial occlusion by PTCA] Nakagawa T, et al. **Kaku Igaku** 1989 Dec;26(12):1545–8 (Eng. Abstr.) (Jpn)

[Evaluation of ischemic heart disease by thallium–201 washout–rate map using SPECT] Nakajima K, et al. **Kaku Igaku** 1989 May;26(5):617–23 (Eng. Abstr.) (Jpn)

[Evaluation of silent myocardial ischemia by Tl–201 myocardial scintigraphy] Naruse H, et al. **Kaku Igaku** 1990 May;27(5):499–504 (Jpn)

[Assessment of myocardial viability by quantitative analysis of stress Tl–SPECT—comparison with FDG–PET] Ohtani H, et al. **Kaku Igaku** 1989 Nov;26(11):1389–98 (Eng. Abstr.) (Jpn)

[Detection of coronary artery disease by exercise radionuclide ventriculography: using sector analysis] Takeishi Y, et al. **Kaku Igaku** 1989 Sep;26(9):1169–76 (Eng. Abstr.) (Jpn)

[Evaluation of ischemia by exercise stress Tl–201 myocardial SPECT in silent and symptomatic ischemia] Taki J, et al. **Kaku Igaku** 1989 May;26(5):611–6 (Eng. Abstr.) (Jpn)

[Study of sympathetic nervous function under effort induced ischemia in patients with angina pectoris with I–123 metaiodobenzylguanidine (MIBG) myocardial SPECT images] Tanaka T, et al. **Kaku Igaku** 1990 Feb;27(2):143–7 (Eng. Abstr.) (Jpn)

[Characteristics of stress Tl–201 myocardial SPECT images in patients with coronary artery lesion of just proximal portion of left anterior descending artery or high lateral branch] Tanaka T, et al. **Kaku Igaku** 1990 Jan;27(1):17–21 (Eng. Abstr.) (Jpn)

[The role and clinical value of thallium–201 myocardial scintigraphy in ischemic heart disease] Shimada T, et al. **Rinsho Hoshasen** 1990 Feb;35(2):253–7 (Eng. Abstr.) (Jpn)

[Congestive heart insufficiency. Evaluation using isotopic methods] Ferreira R, et al. **Rev Port Cardiol** 1989 Apr; 8(4):313–21 (55 ref.) (Eng. Abstr.) (Por)

[Radionuclide ventriculography in the diagnosis of ischemic heart disease in initial coronary atherosclerosis] Mil'ko VI, et al. **Med Radiol (Mosk)** 1989 Oct;34(10):6–8 (Rus)

[Study of segmental contraction by means of isotopic ventriculography: actual role in the non–invasive diagnosis of ischemic heart disease (published erratum appears in Rev Esp Cardiol 1990 Jan;43(1):101)] Candell Riera J. **Rev Esp Cardiol** 1989 Nov;42(9):565–9 (Spa)

[Circumferential profiles versus visual analysis in studies of myocardial perfusion during exertion using thallium–201] Martínez–Duncker C, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):171–6 (Eng. Abstr.) (Spa)

[Utility of myocardial scintigraphy with Tc–99m methoxy–isobutyl–isonitrile in the diagnosis of coronary disease] Mora J, et al. **Rev Esp Cardiol** 1990 Jan;43(1):18–22 (Eng. Abstr.) (Spa)

RADIOTHERAPY

[Lipid peroxidation as an indicator of the effectiveness of treating patients with chronic ischemic heart disease using a helium–neon laser] Katel'nitskaia LI, et al. **Klin Med (Mosk)** 1989 Jul;67(7):37–9 (Eng. Abstr.) (Rus)

[Clinical aspects of laser therapy of ischemic heart disease] Larionov VA, et al. **Sov Med** 1990;(3):50–1 (Rus)

[The effect of laser irradiation on the functional state of the cardiovascular system in diabetes mellitus] Vernigorodskii VS. **Sov Med** 1990;(3):62–4 (Rus)

[Trigger mechanisms of the therapeutic effects of autologous transfusion of UV–irradiated blood (membranotropic effect on erythrocytes and thrombocytes)] Samollova KA, et al. **Vestn Khir** 1989 Dec;144(12):51–60 (Eng. Abstr.) (Rus)

[Effectiveness of treating ischemic heart disease with a helium neon laser under polyclinic conditions] Pashnev VIa, et al. **Voen Med Zh** 1989 Jun;(6):57–8 (Rus)

REHABILITATION

Effects of high resistance training in coronary artery disease.

Ghilarducci LE, et al. **Am J Cardiol** 1989 Oct 15; 64(14):866–70

Strength training in a cardiac rehabilitation program: a six-month follow-up. Sparling PB, et al. **Arch Phys Med Rehabil** 1990 Feb;71(2):148–52

Supervised and unsupervised exercise for the general population and patients with known cardiac disease. Cohen JD, et al. **Cardiovasc Clin** 1990;20(3):191–203 (67 ref.)

Ventricular ectopy in cardiac rehabilitation patients on exercise training and nonexercising days. Lillis DL, et al. **Clin Cardiol** 1989 Oct;12(10):569–74

Return to work after percutaneous transluminal coronary angioplasty: a continuing problem. Danchin N, et al. **Eur Heart J** 1989 Dec;10 Suppl G:54–7

Cardiovascular rehabilitation of patients with burns. Adams RB, et al. **J Burn Care Rehabil** 1990 May–Jun;11(3):246–55 (53 ref.)

Medical, social and psychological recovery after cardiac rehabilitation. Uniken Venema-van Uden MM, et al. **J Psychosom Res** 1989;33(5):651–6

Rehabilitation of cardiac outpatients: a community hospital experience in the 1980s. Gillilan R, et al. **Md Med J** 1990 Jun;39(6):549–53

Psychological factors in cardiac rehabilitation. Conroy R, et al. **Practitioner** 1989 May 22;233(1469):748–52

[Evaluation of the readaptation of patients with triple coronary vessel disease unfit for by-pass surgery] Monpère C, et al. **Ann Cardiol Angeiol (Paris)** 1989 Sep 15; 38(7):437–40 (Eng. Abstr.) (Fre)

[Topic-centered discussions in ambulatory coronary groups—a report of experiences] Ziegeler G, et al. **Rehabilitation (Stuttg)** 1989 Aug;28(3):111–6 (Eng. Abstr.) (Ger)

[Qualitative and quantitative aspects of sports and high risk patients] Hollmann W, et al. **Verh Dtsch Ges Inn Med** 1989; 95:642–7 (Ger)

[Physiologic aspects of exercise in elderly patients with ischemic heart disease] Bringmann W. **ZFA** 1989 Nov–Dec; 44(6):331–4 (Eng. Abstr.) (Ger)

[Rehabilitative measures in elderly patients] Geissler W. **ZFA** 1989 Sep–Oct;44(5):253–6 (Eng. Abstr.) (Ger)

[Secondary prevention and cardiac rehabilitation] De Vita C, et al. **G Ital Cardiol** 1989 Sep;19(9):851–66; discussion 872–9 (Ita)

[Physical training of patients with ischemic heart disease] Gorbachenkov AA. **Kardiologiia** 1989 Oct;29(10):64–8 (Eng. Abstr.) (Rus)

[The rehabilitation of patients with diabetes mellitus and ischemic heart disease] Zaev AP, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):9–15 (Eng. Abstr.) (Rus)

[An evaluation of the efficacy of rehabilitating elderly patients with ischemic heart disease at the sanatorium stage bu using a 2-component method of studying myocardial contractile capacity] Bykov II, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):24–6 (Eng. Abstr.) (Rus)

[Objective criteria of the efficacy of physio- and balneotherapy in patients with ischemic heart disease] Grebenshchikov AP, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):20–3 (Eng. Abstr.) (Rus)

[The autotransfusion of ultraviolet-irradiated blood in the rehabilitation of patients with ischemic heart disease at a sanatorium] Il'nitskil IV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Jul–Aug; (4):19–21 (Eng. Abstr.) (Rus)

[A new approach to using the means of therapeutic physical exercise in the functional rehabilitative treatment of those ill and disabled with ischemic heart disease] Kuskova SP. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):29–32 (Eng. Abstr.) (Rus)

[Rehabilitation in ischemic cardiopathy. Is it fantasy or reality? Secondary prevention] Maroto Montero JM. **Rev Esp Cardiol** 1989 Jan;42(1):49–64 (183 ref.) (Spa)

SURGERY

Transcatheter aspiration of intracoronary thrombus after myocardial infarction. Brown SE, et al. **Am Heart J** 1990 Sep;120(3):688–90

Outcome following emergency coronary artery bypass grafting for failed elective balloon coronary angioplasty in patients with prior coronary bypass. Kahn JK, et al. **Am J Cardiol** 1990 Aug 1;66(3):285–8

Early clinical results of long coronary arteriotomy, endarterectomy and reconstruction combined with multiple bypass grafting for severe coronary artery disease. Sommerhaug RG, et al. **Am J Cardiol** 1990 Sep 15; 66(7):651–9

Cardiovascular lasers. A look into the future. Hall LT. **Am J Nurs** 1990 Jul;90(7):27–30

The detection of intra-operative myocardial ischaemia. Preliminary experience with the right-sided precordial lead. De Hert SG, et al. **Anaesthesia** 1989 Nov;44(11):881–4

Nitrous oxide does not induce myocardial ischemia in patients with ischemic heart disease and poor ventricular function. Mitchell MM, et al. **Anesthesiology** 1989 Oct;71(4):526–34

Coronary artery bypass surgery in the elderly. Saw HS. **Ann Acad Med Singapore** 1990 Jan;19(1):45–50

Left main coronary artery obstruction: surgical experience with 93 patients. Wong JW, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):37–40

Coronary artery bypass in patients with impaired left ventricular function. Wong JW, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):34–6

Results of reoperations for coronary artery disease. Verkkala K, et al. **Ann Chir Gynaecol** 1989;78(4):282–6

Increased mortality of women in coronary artery bypass surgery: evidence for referral bias. Khan SS, et al. **Ann Intern Med** 1990 Apr 15;112(8):561–7

Gender, coronary artery disease, and coronary bypass surgery [editorial] Wenger NK. **Ann Intern Med** 1990 Apr 15;112(8):557–8

Free arterial graft as internal mammary artery–Y complex. Koike R, et al. **Ann Thorac Surg** 1990 Apr;49(4):636–8

Extended use of bilateral internal mammary arteries for coronary artery disease. Slater AD, et al. **Ann Thorac Surg** 1990 Jun;49(6):1014–5

Multiple free (aorta–coronary) gastroepiploic artery grafting. Tanimoto Y, et al. **Ann Thorac Surg** 1990 Mar;49(3):479–80

Coronary artery bypass in idiopathic thrombocytopenia without splenectomy. Thompson LD, et al. **Ann Thorac Surg** 1989 Nov;48(5):721–2

The efficacy of the relaxation response in preparing for cardiac surgery. Leserman J, et al. **Behav Med** 1989 Fall; 15(3):111–7

Management of acute coronary occlusion during coronary angioplasty [letter; comment] Johnston RT, et al. **BMJ** 1990 Apr 14;300(6730):1016 Comment on: BMJ 1990 Feb 10;300(6721):355–8.

Major complications of coronary arteriography: the place of cardiac surgery [letter] **Br Heart J** 1990 Jul;64(1):105–6

Does angioplasty need on site surgical cover? A surgeon's view. Parker DJ. **Br Heart J** 1990 Jul;64(1):1–2

Does angioplasty need on site surgical cover? A physician's view. Shaw TR. **Br Heart J** 1990 Jul;64(1):3–4

Coronary surgery: an update. Treasure T. **Br J Hosp Med** 1990 Jun;43(6):459–63

Midazolam–ketamine vs sufentanil for rapid sequence induction of anaesthesia for CABG surgery. Gordon AR, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S43

Factors affecting hypomagnesemia after cardiopulmonary bypass. Irita K, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S120

Peripheral nerve injuries in cardiac anaesthesia. Merchant RN, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S152

Failure to predict intraoperative myocardial ischaemia in patients with coronary artery disease. Smith H, et al. **Can J Anaesth** 1989 Sep;36(5):539–44

Angioplasty of a large aortocoronary bypass graft utilizing a single oversized balloon catheter. Esente P, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):46–7

Balloon embolization of iatrogenic aortocoronary arteriovenous fistula. Graeb DA, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):58–62

Thrombus aspiration in acute myocardial infarction. Kahn JK, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):54–7

Cardiovascular surgery 1988, Part 2. Council on Cardiovascular Surgery, American Heart Association, scientific sessions. Washington, November 14–17, 1988. **Circulation** 1989 Nov;80(5 Pt 2):III1–213

Immediate revascularization of the heart. Adam M, et al. **Circulation** 1970 May;41(5 Suppl):II73–8

Coronary atherectomy. Clinical, angiographic, and histological findings and observations regarding potential mechanisms [see comments] Safian RD, et al. **Circulation** 1990 Jul;82(1):69–79 Comment in: Circulation 1990 Jul:82(1):305–7.

Does coronary bypass surgery improve long-term survival? Proudfit WL. **Cleve Clin J Med** 1989 Sep;56(6):561–8 (35 ref.)

Randomized double-blind study of intravenous tocainide versus lidocaine for suppression of ventricular arrhythmias after cardiac surgery. Manolis AS, et al. **Clin Cardiol** 1990 Mar;13(3):177–81

Coronary revascularization: influence on ventricular arrhythmias. Rotman B, et al. **Clin Cardiol** 1990 Jan; 13(1):11–3

Early neurological abnormalities following coronary artery bypass surgery. A prospective study. Strenge H, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(4):277–81

Effect of acetylcholine on arterial and venous grafts and coronary arteries in patients with coronary artery disease. Werner GS, et al. **Eur Heart J** 1990 Feb;11(2):127–37

Internal mammary artery bypass: effect on longevity and recurrent angina pectoris in 2900 patients. Acinapura AJ, et al. **Eur J Cardiothorac Surg** 1989;3(4):321–5; discussion 325–6

Coronary bypass with substrate-enhanced cardioplegia versus non-cardioplegic technique for early revascularization in acute infarction. Bonchek LI, et al. **Eur J Cardiothorac Surg** 1990;4(3):124–9

Emergency surgical revascularization following coronary angioplasty: evaluation of operative results by isoenzyme analysis and electrocardiography. Hake U, et al. **Eur J Cardiothorac Surg** 1989;3(6):549–53

Internal mammary artery: methods of use and their effect on survival after coronary bypass surgery. Sergeant P, et al. **Eur J Cardiothorac Surg** 1990;4(2):72–8

Hypothermia and the stress response to cardiopulmonary bypass. Taggart DP, et al. **Eur J Cardiothorac Surg** 1989; 3(4):359–63; discussion 364

Endarterectomy of the left main coronary artery stenosis by a 'transpulmonary artery approach'. Villemot JP, et al. **Eur J Cardiothorac Surg** 1988;2(6):453–7

Long-term prognosis of Kawasaki disease patients with coronary artery obstruction. Tatara K, et al. **Heart Vessels** 1989;5(1):47–51

Aortic valve decalcification revisited. Marty AT, et al. **Indiana Med** 1989 Nov;82(11):880–1

Intraoperative sonographic measurements of the internal mammary artery as a coronary bypass conduit. Likungu J, et al. **Int J Card Imaging** 1989;5(1):33–7

Interactive effects of age and other risk factors on long-term survival after coronary artery surgery. Ramanathan KB, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1493–9

Incidence and prognostic significance of intraventricular conduction abnormalities after coronary bypass surgery. Tuzcu EM, et al. **J Am Coll Cardiol** 1990 Sep;16(3):607–10

Left coronary artery system source diseases. Surgical issues. Ghosh PK, et al. **J Cardiovasc Surg (Torino)** 1990 May–Jun; 31(3):298–304

Management of concomitant occlusive disease of coronary and carotid arteries using cardiopulmonary bypass for both procedures. Minami K, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):723–8

Surgical treatment for myocardial bridge using intraoperative echocardiography. A report of two cases. Watanabe G, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec; 30(6):1009–12

Newer surgical techniques in myocardial revascularization. Everson CT, et al. **J La State Med Soc** 1990 May; 142(5):51–3

Laser angioplasty in coronary artery disease. White CJ, et al. **J La State Med Soc** 1990 May;142(5):45–50

Aortocoronary bypass surgery for coronary arterial lesions resulting from Kawasaki disease. Suzuki A, et al. **J Pediatr** 1990 Apr;116(4):567–73

Antemortem diagnosis of giant cell aortitis. Mitnick HJ, et al. **J Rheumatol** 1990 May;17(5):708–11

Mechanical support: assist or nemesis? Adamson RM, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):915–20; discussion 920–1

Cardiac surgery in septuagenarians: is there a difference in mortality and morbidity? Grondin CM, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):908–14

Aorta-coronary bypass grafting for bilateral coronary ostial stenosis caused by Takayasu's aortitis [letter] Tanaka K, et al. **J Thorac Cardiovasc Surg** 1990 May;99(5):948–9

Surgical therapy for coronary disease: randomized and observational studies [letter; comment] **JAMA** 1990 Jan 5; 263(1):33–4 Comment on: JAMA 1989 Apr 14;261(14):2077–86.

Effects of coronary artery bypass surgery on regions showing persistent defects in thallium myocardial images. Konishi Y, et al. **Jpn Circ J** 1989 Nov;53(11):1356–62

Qualitative and quantitative changes in platelets after coronary-artery bypass surgery may help identify thrombotic complications and infections. von Ruecker A, et al. **Klin Wochenschr** 1989 Oct 17;67(20):1042–7

Percutaneous coronary angioplasty with mid-infrared laser and a new multifibre catheter [letter] Geschwind HJ, et al. **Lancet** 1990 Jul 28;336(8709):245–6

Assessment of priority for coronary revascularisation procedures. Revascularisation Panel and Consensus Methods Group. Naylor CD, et al. **Lancet** 1990 May 5; 335(8697):1070–3 (0 ref.)

Clinical application of coronary laser angioplasty during coronary bypass surgery. Chen MZ, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(2):65–7

Adenosine-induced increase in graft flow during coronary bypass surgery. Torssell L, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):235–9

Indications for and risks in reoperation for coronary artery disease. Verkkala K, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(1):1–6

Expanded use of internal mammary artery graft for myocardial revascularization. Yakirevich V, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(1):17–9

19th annual meeting of the German Society for Thoracic and Cardiovascular Surgery. February 22, 1990, to February 24, 1990, Bad Nauheim. Abstracts. **Thorac Cardiovasc Surg** 1990 Jan;38 Suppl 1:75–132, 15–74 (Eng, Ger)

Predictive value of factors affecting early results and complications in eight years of coronary artery bypass surgery. Ståhle E, et al. **Thorac Cardiovasc Surg** 1989 Dec; 37(6):355–60

Will emergency coronary bypass grafting after failed elective percutaneous transluminal coronary angioplasty prevent myocardial infarction? Tebbe U, et al. **Thorac Cardiovasc Surg** 1989 Oct;37(5):308–12

Successful combined heart and kidney transplantation for ischemic heart disease in polycystic kidney disease. Guillemain R, et al. **Transplant Proc** 1990 Aug;22(4):1466–7

Coronary artery bypass surgery: emerging trends in mortality. Macmanus Q, et al. **Va Med** 1990 Mar; 117(3):102–4

Changing perspectives: coronary artery disease [editorial] Vetrovec GW. **Va Med** 1990 Mar;117(3):118–9

Endothelium-dependent regulatory mechanisms in human coronary bypass grafts: possible clinical implications. Yang Z, et al. **Z Kardiol** 1989;78 Suppl 6:80–4 (48 ref.)

[Free internal mammary artery–coronary artery bypass surgery] Wu B, et al.

Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1990 Feb; 18(1):58–9 (11 ref.) **(Chi)**

[Metabolic and ultrastructural changes in the myocardium during heart arrest in patients undergoing surgery for ischemic heart disease] Táborský J, et al. **Rozhl Chir** 1989 Oct;68(10):625–30 (Eng. Abstr.) **(Cze)**

[Anterior interventricular revascularization using the internal mammary artery. Short and medium-term follow-up of 140 patients] Mansourati J, et al.
Ann Cardiol Angeiol (Paris) 1990 Feb;39(2):73–7 (Eng. Abstr.) **(Fre)**

[Current operative risk in emergency coronary surgery. Experience of the last 5 years] Leguerrier A, et al.
Ann Chir 1990;44(2):77–83 (Eng. Abstr.) **(Fre)**

[Use of 2 internal mammary arteries in coronary bypass. Combination with a bypass using the gastroepiploic artery in 2 cases] Acar C, et al. **Arch Mal Coeur** 1989 Dec; 82(12):2021–4 (Eng. Abstr.) **(Fre)**

[Use of brachial venous grafts in coronary bypass surgery] Dervanian P, et al. **J Chir (Paris)** 1990 May;127(5):247–51 (Eng. Abstr.) **(Fre)**

[Surgical strategy in polyarterial disease. Value and results of combined surgery] Nataf P, et al. **Presse Med** 1990 Mar 17;19(10):460–4 (Eng. Abstr.) **(Fre)**

[Anesthesia-induced changes in the preload-dependent circulatory reactions in patients with coronary heart disease] Olthoff D, et al. **Anaesthesiol Reanim** 1989; 14(4):187–93 (Eng. Abstr.) **(Ger)**

[Lung inflation or mechanical ventilation in extracorporeal circulation?] Fretschner R, et al. **Anaesthesist** 1989 Oct; 38(10):525–30 (Eng. Abstr.) **(Ger)**

[Ketanserin versus sodium nitroprusside in the treatment of hypertension following coronary surgery. Effect on intrapulmonary right and left shunt and arterial oxygenation] Möllhoff T, et al. **Anaesthesist** 1989 Oct; 38(10):519–24 (Eng. Abstr.) **(Ger)**

[The effect of sufentanil in high doses on hemodynamics and electroencephalography activity in coronary patients] Stephan H, et al. **Anaesthesist** 1989 Oct;38(10):510–8 (Eng. Abstr.) **(Ger)**

[Neurologic complications of coronary bypass surgery—a prospective study] Hornig CR, et al.
Fortschr Neurol Psychiatr 1990 Feb;58(2):76–83 (Eng. Abstr.) **(Ger)**

[Myocardial oxygen supply in hemodilution in patients with healthy hearts and heart surgery patients] Klövekorn WP. **Infusionstherapie** 1990 Apr;17 Suppl 2:24–7 (30 ref.) (Eng. Abstr.) **(Ger)**

[Long-term results of surgical coronary vessel intervention in patients with reduced left ventricular function] Carrel T, et al. **Schweiz Med Wochenschr** 1990 Aug 18; 120(33):1175–9 (Eng. Abstr.) **(Ger)**

[Indications and contraindications for heart transplantation] Gallino A, et al. **Ther Umsch** 1990 Feb;47(2):106–10 (7 ref.) **(Ger)**

[Prognosis and trends in bypass surgery] Sittaro NA.
Versicherungsmedizin 1990 Jun 1;42(3):80–3 (Eng. Abstr.) **(Ger)**

[Surgical success following heart transplantation in relation to preoperative status] Bunzel B, et al.
Wien Klin Wochenschr 1990 Jun 22;102(13):375–8 (Eng. Abstr.) **(Ger)**

[Therapy of perioperative myocardial damage in aortocoronary venous bypass surgery] Butzeck J, et al.
Z Gesamte Inn Med 1990 Jun 15;45(11):309–12 (Eng. Abstr.) **(Ger)**

[Comparison of pre- and postoperative findings in patients undergoing aortocoronary bypass surgery] Kästner C, et al. **Z Gesamte Inn Med** 1990 Jun 15;45(11):301–4 (Eng. Abstr.) **(Ger)**

[Excimer laser coronary angioplasty in high-grade stenoses and chronic occlusion] Buchwald A, et al. **Z Kardiol** 1989 Nov;78(11):714–8 (Eng. Abstr.) **(Ger)**

[Doppler echocardiography evaluation of left ventricular function in intra-aortic balloon counterpulsation] Werner GS, et al. **Z Kardiol** 1990 Jan;79(1):8–14 (Eng. Abstr.) **(Ger)**

[Nosocomial infections and sternum osteomyelitis] Warnke H, et al. **Zentralbl Chir** 1990;115(9):563–8 (Eng. Abstr.) **(Ger)**

[Aortocoronary venous bypass operation in the elderly] Kothe VK, et al. **ZFA** 1989 Sep–Oct;44(5):273–9 (Eng. Abstr.) **(Ger)**

[Coronary re-permealization by percutaneous transluminal coronary angiography in 100 patients with ischemic heart disease] Szatmáry László J. **Orv Hetil** 1990 Aug 12; 131(32):1743–7 (Eng. Abstr.) **(Hun)**

[Coronary surgery in the 90s in the light of the results of randomized multicenter studies] Zingone B, et al.
G Ital Cardiol 1989 Oct;19(10):933–41 (92 ref.) **(Ita)**

[Long-term managements of patients with coronary artery bypass grafting] Haze K. **J Cardiol Suppl** 1989;22:5 **(Jpn)**

[Follow-up study of open heart surgery with IABP] Nishiuchi M, et al. **J Cardiol Suppl** 1989;22:9 **(Jpn)**

[Indication and assessment of coronary artery bypass grafting] Shio K, et al. **J Cardiol Suppl** 1989;22:15–6 **(Jpn)**

[Quantitative evaluation of myocardial blood flow and myocardial fluoro-deoxyglucose uptake determined by PET before and after aorto-coronary bypass operation in patients with ischemic heart disease] Takahashi A, et al. **Kaku Igaku** 1990 Mar;27(3):227–35 (Eng. Abstr.) **(Jpn)**

[A case of coronary artery bypass grafting with right gastroepiploic artery for right coronary artery obstruction associated with aortitis syndrome] Satokawa H, et al.
Kokyu To Junkan 1990 May;38(5):489–92 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of impending rupture of aortic arch aneurysm associated with ischemic heart disease] Goto Y, et al. **Kyobu Geka** 1990 Apr;43(4):287–90 (Eng. Abstr.) **(Jpn)**

[Combined operation for renovascular hypertension and ischemic heart disease] Isomura T, et al. **Kyobu Geka** 1990 Jan;43(1):36–40 (Eng. Abstr.) **(Jpn)**

[Coronary artery bypass surgery with internal mammary artery grafts: clinical and angiographic results] Kitamura S, et al. **Kyobu Geka** 1989 Jul;42(8 Suppl):609–16 (Eng. Abstr.) **(Jpn)**

[Bilateral internal mammary artery grafting for a patient with poor left ventricular function] Matsuura A, et al.
Kyobu Geka 1989 Aug;42(9):760–5 (Eng. Abstr.) **(Jpn)**

[An operated case of supravalvular aortic stenosis and aortic regurgitation and narrowed right coronary ostium] Misawa Y, et al. **Kyobu Geka** 1990 Apr;43(4):333–6 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of surgical treatment of children with Kawasaki disease] Saga T, et al. **Kyobu Geka** 1989 Jul; 42(7):510–5; discussion 516–8 (Eng. Abstr.) **(Jpn)**

[Coronary revascularization using an internal mammary artery-saphenous vein composite graft in a patient with severely calcified ascending aorta] Sekine S, et al.
Kyobu Geka 1990 Jul;43(7):573–5 (Eng. Abstr.) **(Jpn)**

[Anesthesia for aorto-coronary bypass graft surgery in children with Kawasaki disease] Ohe Y, et al. **Masui** 1989 Jun;38(6):777–83 (Eng. Abstr.) **(Jpn)**

[Surgery of aortic disease with coronary heart disease] Endo M, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1483–6 (Eng. Abstr.) **(Jpn)**

[Indication for coronary revascularization in aortic surgery] Soma Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1467–70 (Eng. Abstr.) **(Jpn)**

[Surgical treatments for coronary artery disease associated with cancer: a consideration of simultaneous procedure of coronary artery revascularization and surgery for cancer] Takahashi T, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec; 90(12):2037–43 (Eng. Abstr.) **(Jpn)**

[Surgery for aortic aneurysms with coronary disease] Yamana K, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1479–82 (Eng. Abstr.) **(Jpn)**

[Surgical treatment for aortic diseases associated with coronary artery stenosis] Yuasa H, et al.
Nippon Geka Gakkai Zasshi 1989 Sep;90(9):1475–8 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of ischemic heart disease]
Nippon Kyobu Geka Gakkai Zasshi 1988 May;36(5):701–10 **(Jpn)**

[A case report of Bentall procedure for annulo-aortic ectasia associated with right coronary artery dissection] Akimoto N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):1989–94 (Eng. Abstr.) **(Jpn)**

[A case of aortitis syndrome with left coronary ostial stenosis and aortic regurgitation treated by transaortic coronary endarterectomy and aortic valve replacement] Katoh T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr; 38(4):667–71 (Eng. Abstr.) **(Jpn)**

[Surgical management of concomitant diseases of coronary and cerebral arteries—indication and late results] Kito Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug; 37(8):1465–8 (Eng. Abstr.) **(Jpn)**

[Coronary artery disease and the results of coronary bypass surgery in diabetics] Matsui K, et al.
Nippon Kyobu Geka Gakkai Zasshi 1990 Jan;38(1):16–21 (Eng. Abstr.) **(Jpn)**

[Quantitative analysis of myocardial revascularization on left ventricular diastolic function] Morishita K, et al.
Nippon Kyobu Geka Gakkai Zasshi 1989 Jul;37(7):1353–8 (Eng. Abstr.) **(Jpn)**

[Angioplasty of the left main coronary artery—report of a case with left main coronary stenosis and aortic valve stenosis] Moro H, et al.
Nippon Kyobu Geka Gakkai Zasshi 1989 Jul;37(7):1446–9 (Eng. Abstr.) **(Jpn)**

[Significance of coronary artery bypass grafting to totally occluded left anterior descending coronary artery] Nagaoka H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Dec;37(12):2477–82 (Eng. Abstr.) **(Jpn)**

[A case of coronary artery bypass grafting using bilateral mammary arteries in a patient with systemic lupus erythematosus] Sakamoto S, et al.
Nippon Kyobu Geka Gakkai Zasshi 1990 Jan;38(1):116–20 (Eng. Abstr.) **(Jpn)**

[Spontaneous coronary artery dissection with left ventricular aneurysm—a case report of successful surgical repair] Shioi K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug; 37(8):1614–9 (Eng. Abstr.) **(Jpn)**

[A surgical case of atrial septal aneurysm associated with rheumatic mitral and tricuspid disease and coronary-pulmonary artery fistula] Tamura S, et al.
Nippon Kyobu Geka Gakkai Zasshi 1990 Feb;38(2):336–40 (19 ref.) (Eng. Abstr.) **(Jpn)**

[A simultaneous operation of A-C bypass and replacement of abdominal aortic aneurysm—a successful case] Ueda T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):1979–83 (Eng. Abstr.) **(Jpn)**

[A successful surgical treatment of left coronary artery-pulmonary artery fistula with giant saccular aneurysm] Watanabe Y, et al.
Nippon Kyobu Geka Gakkai Zasshi 1989 Jun;37(6):1206–10 (Eng. Abstr.) **(Jpn)**

[Left coronary ostial stenosis in aortitis syndrome—patch mounted graft technique for proximal anastomosis] Yokoyama M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):692–7 (Eng. Abstr.) **(Jpn)**

[Surgery for myocardial revascularization] de Oliveira SA. **AMB Rev Assoc Med Bras** 1989 Jul–Sep;35(4):144–50 (68 ref.) **(Por)**

[Effects of coronary surgery on silent ischemia] Calqueiro JM, et al. **Rev Port Cardiol** 1990 Feb;9(2):125–33 (Eng. Abstr.) **(Por)**

[Effect of nitrous oxide on myocardial activity and blood supply in patients with ischemic heart disease] Vasil'ev AV, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):7–9 (Eng. Abstr.) **(Rus)**

[The first clinical experience in extended myoventriculoplasty with programmed cardiosynchronized electroneurostimulation] Dumchus AS, et al.
Grud Serdechnososudistaia Khir 1990;(1):35–8 (Eng. Abstr.) **(Rus)**

[Evaluation of late results of aortocoronary bypass in patients with ischemic heart disease in relation to the bypass function] Martsinkiavichius A, et al.
Grud Serdechnososudistaia Khir 1990;(3):17–20 (Eng. Abstr.) **(Rus)**

[Myocardial revascularization] Olearchik ES.
Grud Serdechnososudistaia Khir 1990;(2):68–70 (26 ref.) **(Rus)**

[Intraoperative dynamics of the regional function of the myocardium during aortocoronary bypass] Sandrikov VA, et al. **Grud Serdechnososudistaia Khir** 1990;(2):38–41 (Eng. Abstr.) **(Rus)**

[Extracorporeal circulation without an oxygenator] Shabalkin BV, et al. **Grud Serdechnososudistaia Khir** 1990; (3):69–70 **(Rus)**

[Clinical use of artificial heart ventricles] Shumakov VI, et al. **Grud Serdechnososudistaia Khir** 1990;(1):18–22 (Eng. Abstr.) **(Rus)**

[Morphofunctional criteria for the selection of patients with ischemic heart disease and associated arterial hypertension for surgical treatment] Gorkavaia OF, et al.
Grudn Khir 1989 Nov-Dec;(6):42–5 (Eng. Abstr.) **(Rus)**

[Early prognosis of work capacity in patients with ischemic heart disease after direct myocardial revascularization] Akchurin RS, et al. **Kardiologiia** 1990 May;30(5):37–9 (Eng. Abstr.) **(Rus)**

[Current state of the problem of surgical treatment of ischemic heart disease] Belov IuV. **Kardiologiia** 1989 Aug; 29(8):104–11 (90 ref.) **(Rus)**

[Effect of anaprilin electrophoresis using sinusoidal modulated current on central hemodynamics in patients after surgical treatment of ischemic heart disease] Kniazeva TA, et al. **Kardiologiia** 1989 Aug;29(8):50–3 (Eng. Abstr.) **(Rus)**

[Sanatorium-resort treatment in a low-mountain region of patients with ischemic heart disease after aortocoronary bypass] Mkrtchian RI, et al. **Kardiologiia** 1989 Dec; 29(12):22–5 (Eng. Abstr.) **(Rus)**

[Dynamics of clinical and functional parameters in patients with ischemic heart disease after aortocoronary bypass surgery] Paliushchinskaia N, et al. **Kardiologiia** 1989 Dec; 29(12):18–22 (Eng. Abstr.) **(Rus)**

[Computerized tomography in evaluating the function of aortocoronary shunts] Rabkin IKh, et al. **Kardiologiia** 1989 Aug;29(8):12–5 (Eng. Abstr.) **(Rus)**

[Mammary-coronary artery anastomosis in current cardiological surgery] Kolesov EV. **Khirurgiia (Mosk)** 1990 May;(5):20–4 (Eng. Abstr.) **(Rus)**

[Surgical treatment of chronic ischemic heart disease] Lebedev LV, et al. **Khirurgiia (Mosk)** 1990 May;(5):11–6 (Eng. Abstr.) **(Rus)**

[Clinical aspects of indirect myocardial revascularization in patients with ischemic heart disease] Myshi GD, et al.
Khirurgiia (Mosk) 1989 Sep;(9):17–20 (Eng. Abstr.) **(Rus)**

[Reconstructive surgery in ischemic heart disease and aortic arch syndrome associated with duodenal ulcer] Smorzhevskiĭ VI, et al. **Klin Khir** 1989;(10):61–2 **(Rus)**

[Gravitational surgical correction of the aggregative status of the blood in ischemic heart disease] Gavrilov OK.
Klin Med (Mosk) 1989 Oct;67(10):8–12 (Eng. Abstr.) **(Rus)**

[Hospital rehabilitation of patient after aortocoronary shunting] Markarian SS, et al. **Klin Med (Mosk)** 1989 Aug; 67(8):132–4 **(Rus)**

[The use of intravascular laser irradiation in surgery] Kurtenok LG, et al. **Sov Med** 1990;(3):31–3 (37 ref.) **(Rus)**

[Aortocoronary bypass in patients with ischemic heart disease with persistent angina pectoris] Solov'ev GM, et al.
Sov Med 1989;(12):57–61 **(Rus)**

[Indications for aortocoronary bypass in patients with combined lesions of the coronary arteries, abdominal aorta and blood vessels of the legs] Kertsman VP, et al.
Vestn Akad Med Nauk SSSR 1989;(12):19–23 (Eng. Abstr.) **(Rus)**

[Function of the myocardium after revascularization and the

patency of coronary shunts] Azovtsev RA, et al. **Vestn Khir** 1989 Dec;144(12):7–12 (Eng. Abstr.) **(Rus)**

[Internal thoracic artery in coronary surgery] Lebedev LV, et al. **Vestn Khir** 1990 Feb;144(2):3–7 (Eng. Abstr.) **(Rus)**

[Aortocoronary bypass and electrodestruction of the atrioventricular node in a patient with ischemic heart disease complicated by paroxysmal atrial fibrillation] Vinogradov AG, et al. **Vestn Khir** 1990 Mar;144(3):35–6 **(Rus)**

[Spontaneous coronary artery dissection treated by bypass surgery] Moor E, et al. **Lakartidningen** 1990 Feb 14; 87(7):485–6 **(Swe)**

THERAPY

Percutaneous transluminal coronary angioplasty. Six years experience. Vatne K, et al. **Acta Radiol** 1989 Sep–Oct; 30(5):475–9

Management of patients after coronary angioplasty. Popma JJ, et al. **Am Fam Physician** 1990 Jan;41(1):121–9 (42 ref.)

Repeat coronary angioplasty during the same angiographic diagnosis of coronary restenosis. Alfonso F, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):237–41

Restenosis following coronary angioplasty. Fanelli C, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):357–68 (180 ref.)

Nonacute thrombolytic therapy: an adjunct to coronary angioplasty in patients with large intravascular thrombi. Grill HP, et al. **Am Heart J** 1989 Oct;118(4):662–7

Buccal nitroglycerin decreases ischemic pain during coronary angioplasty: a double-blind, randomized, placebo-controlled study. Johansson SR, et al. **Am Heart J** 1990 Aug;120(2):275–81

Late follow-up of 781 patients undergoing percutaneous transluminal coronary angioplasty or coronary artery bypass grafting for an isolated obstruction in the left anterior descending coronary artery. Kramer JR, et al. **Am Heart J** 1989 Dec;118(6):1144–53

PTCA of chronically occluded coronary arteries. Laarman GJ, et al. **Am Heart J** 1990 May;119(5):1153–60 (31 ref.)

Inadvertent "atherectomy" during ostial right coronary artery angioplasty. Lasala JM, et al. **Am Heart J** 1990 Aug; 120(2):423–4

Coronary angioplasty at the time of initial catheterization using small diagnostic catheters. Panayiotou H, et al. **Am Heart J** 1990 Jan;119(1):204–5

Successful multiple segment coronary angioplasty: effect of completeness of revascularization in single-vessel multilesions and multivessels. Samson M, et al. **Am Heart J** 1990 Jul;120(1):1–12 (42 ref.)

The role of antiplatelet agents in modifying the extent of restenosis following percutaneous transluminal coronary angioplasty. Schwartz L, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):232–6

Silent ischemia: to treat or not. Shell WE. **Am Heart J** 1990 Sep;120(3):766–8; discussion 769–72

PTCA of the left coronary artery when the right coronary artery is chronically occluded. Teirstein P, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):479–83

Percutaneous transluminal coronary angioplasty in silent ischemia. Tuzcu EM, et al. **Am Heart J** 1990 Apr; 119(4):797–801

Long-term outcome of unsuccessful percutaneous transluminal coronary angioplasty. Tuzcu M, et al. **Am Heart J** 1990 Apr;119(4):791–6

Coronary angioplasty for chronic total occlusion reduces the need for subsequent coronary bypass surgery. Warren RJ, et al. **Am Heart J** 1990 Aug;120(2):270–4

Percutaneous transluminal coronary angioplasty after non-Q-wave acute myocardial infarction. Alfonso F, et al. **Am J Cardiol** 1990 Apr 1;65(13):835–9

Usefulness of coronary angioplasty in asymptomatic patients [see comments] Anderson HV, et al. **Am J Cardiol** 1990 Jan 1;65(1):35–9 Comment in: Am J Cardiol 1989 Jan 1;65(1):114–5.

Myocardial protection by intravenous diltiazem during angioplasty of single-vessel coronary artery disease. Bonnier JJ, et al. **Am J Cardiol** 1990 Jul 15;66(2):145–50

Percutaneous transluminal coronary angioplasty for silent myocardial ischemia [editorial; comment] Cabin HS. **Am J Cardiol** 1990 Jan 1;65(1):114–5 Comment on: Am J Cardiol 1990 Jan 1;65(1):35–9.

Coronary angioplasty using the probing catheter in combination with the Probe balloon wire. den Heijer P, et al. **Am J Cardiol** 1989 Nov 1;64(16):1041–3

Long-term results of successful and failed angioplasty for chronic total coronary arterial occlusion. Finci L, et al. **Am J Cardiol** 1990 Sep 15;66(7):660–2

Left main coronary artery disease progression after percutaneous transluminal coronary angioplasty. Kells CM, et al. **Am J Cardiol** 1990 Feb 15;65(7):513–4

Hemodynamic and echocardiographic assessment of the effects of diltiazem during transient occlusion of the left anterior descending coronary artery during percutaneous transluminal coronary angioplasty. Kern MJ, et al. **Am J Cardiol** 1989 Oct 15;64(14):849–55

Influence of heparin therapy on percutaneous transluminal coronary angioplasty outcome in patients with coronary arterial thrombus. Laskey MA, et al. **Am J Cardiol** 1990 Jan 15;65(3):179–82

Predictors of success in percutaneous transluminal coronary angioplasty of chronic total occlusions. LaVeau PJ, et al. **Am J Cardiol** 1989 Dec 1;64(19):1264–9

Percutaneous transluminal coronary angioplasty in the setting of large intracoronary thrombi. Mooney MR, et al. **Am J Cardiol** 1990 Feb 15;65(7):427–31

Hematocrit changes after uncomplicated percutaneous transluminal coronary angioplasty [see comments] Phillips SJ, et al. **Am J Cardiol** 1989 Oct 15;64(14):940 Comment in: Am J Cardiol 1990 Jul 1;66(1):124.

Percutaneous transluminal coronary angioplasty in patients 80 years of age and older. Rich JJ, et al. **Am J Cardiol** 1990 Mar 1;65(9):675–6

Percutaneous cardiopulmonary bypass support in high-risk patients undergoing percutaneous transluminal coronary angioplasty. Shawl FA, et al. **Am J Cardiol** 1989 Dec 1; 64(19):1258–63

Changing use of coronary angioplasty and coronary bypass surgery in the treatment of chronic coronary artery disease. Weintraub WS, et al. **Am J Cardiol** 1990 Jan 15;65(3):183–8

Factors influencing restenosis after coronary angioplasty. Popma JJ, et al. **Am J Med** 1990 Jan;88(1N):16N–24N (53 ref.)

Is anesthesia therapeutic? [editorial] Rosenbaum SH, et al. **Anesth Analg** 1989 Nov;69(5):555–7 (16 ref.)

Coronary angioplasty in ischaemic heart disease. Tan AT, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):109–12 (35 ref.)

Cardiopulmonary bypass in a model of acute myocardial infarction and cardiac arrest. Angelos MG, et al. **Ann Emerg Med** 1990 Aug;19(8):874–80

Cardiac resuscitability with cardiopulmonary bypass after increasing ventricular fibrillation times in dogs. Reich H, et al. **Ann Emerg Med** 1990 Aug;19(8):887–90

Surgical standby for percutaneous transluminal coronary angioplasty: a survey of patterns of practice [see comments] Cameron DE, et al. **Ann Thorac Surg** 1990 Jul;50(1):35–9 Comment in: Ann Thorac Surg 1990 Jul;50(1):3–4.

Crossovers in coronary artery bypass grafting trials: desirable, undesirable, or both? [editorial; comment] [see comments] Fisher LD, et al. **Ann Thorac Surg** 1989 Oct; 48(4):465–6 Comment on: Ann Thorac Surg 1989 Oct;48(4):490–5. Comment in: Ann Thorac Surg 1990 May;49(5):847–8.

Surgical standby for coronary angioplasty [editorial; comment] Ullyot DJ. **Ann Thorac Surg** 1990 Jul;50(1):3–4 Comment on: Ann Thorac Surg 1990 Jul;50(1):35–9.

Effectiveness of the call-out system for a London Coronary Ambulance service. McLauchlan CA, et al. **Arch Emerg Med** 1989 Sep;6(3):193–8

Initial clinical experience with endocardial defibrillation using an implantable cardioverter/defibrillator with a triple-electrode system. Saksena S, et al. **Arch Intern Med** 1989 Oct;149(10):2333–9

Long-term clinical experience with HELP-LDL-apheresis in combination with HMG-CoA-reductase inhibitors for maximum treatment of coronary heart disease associated with severe hypercholesterolemia. Eisenhauer T, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):580–3

Extracorporeal membrane oxygenation for percutaneous coronary angioplasty in high risk patients. Taub JO, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):664–6

Late (one month) reversible ischaemia after primary coronary occlusion treated with recombinant tissue plasminogen activator (rTPA). Wilkes NP, et al. **Aust N Z J Med** 1990 Apr;20(2):149–53

Beneficial effects of low doses of ethanol on reoxygenation injury following anoxia in rat hearts. Ashraf M, et al. **Basic Res Cardiol** 1989 Jul–Aug;84(4):378–87

Management of acute coronary occlusion during percutaneous transluminal coronary angioplasty: experience of complications in a hospital without on site facilities for cardiac surgery [see comments] Richardson SG, et al. BMJ 1990 Feb 10;300(6721):355–8 Comment in: BMJ 1990 Apr 14;300(6730):1016.

Identification of a high risk subgroup of patients with silent ischaemia after myocardial infarction: a group for early therapeutic revascularisation? de Belder M, et al. **Br Heart J** 1990 Mar;63(3):145–50

Successful repeat percutaneous transluminal coronary angioplasty after failed coronary artery surgery for left main coronary artery dissection. Ramsdale DR, et al. **Br Heart J** 1989 Nov;62(5):400–2

Percutaneous transluminal coronary angioplasty with cardiopulmonary bypass for stenosis of the most proximal part of the left anterior descending coronary artery. Ueda O, et al. **Br Heart J** 1990 Mar;63(3):178–9

Angioplasty: here's the proof [letter] Shiu MF. **Br J Hosp Med** 1990 Jun;43(6):410–1

Angioplasty: where's the proof? [editorial] Treasure T. **Br J Hosp Med** 1990 Feb;43(2):95, 99

Simple arrangement for PTCA [letter; comment] Kimball BP. **Can J Cardiol** 1989 Oct;5(7):IX Comment on: Can J Cardiol 1989 Jun–Aug;5(5):247–8.

Late reassessment of percutaneous transluminal coronary angioplasty results: clinical, exercise and angiographic follow-up. Morton BC, et al. **Can J Cardiol** 1989 Sep; 5(6):291–4

Coronary angioplasty. **Cardiol Clin** 1989 Nov;7(4):739–923

Percutaneous transluminal coronary angioplasty: a surgeon's perspective. Brenowitz JB, et al. **Cardiol Clin** 1989 Nov; 7(4):743–7 (25 ref.)

Complex angioplasty: single versus multiple dilatations in multivessel coronary disease patients. Dorros G, et al. **Cardiol Clin** 1989 Nov;7(4):783–9 (14 ref.)

Restenosis after angioplasty: mechanisms and clinical experience. King JF, et al. **Cardiol Clin** 1989 Nov; 7(4):853–64 (160 ref.)

Intravascular stents. Lembo NJ, et al. **Cardiol Clin** 1989 Nov; 7(4):877–94 (18 ref.)

Percutaneous transluminal coronary angioplasty in patients with severe left ventricular dysfunction. Lewin RF, et al. **Cardiol Clin** 1989 Nov;7(4):813–25

Should the asymptomatic patient with a significant proximal LAD stenosis undergo PTCA? Chatterjee K, et al. **Cardiovasc Clin** 1990;21(1):31–41; discussion 42–4 (43 ref.)

Has multivessel angioplasty displaced surgical revascularization? King SB 3d, et al. **Cardiovasc Clin** 1990; 21(1):123–37; discussion 138–9 (58 ref.)

How should we manage continuing asymptomatic ischemia in patients treated for angina pectoris? Raby KE, et al. **Cardiovasc Clin** 1990;21(1):45–54; discussion 55 (38 ref.)

Selective ECG synchronised suction and retroinfusion of coronary veins: first results of studies in acute myocardial ischaemia in dogs. Boekstegers P, et al. **Cardiovasc Res** 1990 Jun;24(6):456–64

A complication of prolonged urokinase infusion into a chronically occluded aortocoronary saphenous vein graft. Andersen RL, et al. **Cathet Cardiovasc Diagn** 1989 Sep; 18(1):20–2

Coronary angioplasty—unstable lesions and prolonged balloon inflation time. Arie S, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):77–83

Side branch occlusion during coronary angioplasty: incidence, angiographic characteristics, and outcome. Arora RR, et al. **Cathet Cardiovasc Diagn** 1989 Dec; 18(4):210–2

Unusual guidewire maneuver to enter an acute angulation during complex percutaneous transluminal coronary angioplasty. Avedissian MG, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):93–7

Angioplasty of recent total coronary occlusions: cardiac death can occur in "low-risk" cases. Butman S. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):34–8

Large coronary artery angioplasty. Calick A. **Cathet Cardiovasc Diagn** 1989 Sep;18(1):18–9

Catheter reperfusion for failed emergency coronary angioplasty without subsequent bypass surgery. Ciampricotti R, et al. **Cathet Cardiovasc Diagn** 1989 Nov; 18(3):159–64

Orion, an improved balloon on a wire system: initial experience. Corcos T, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):103–7

Percutaneous transluminal coronary angioplasty using a combined "balloon-on-a-wire" system and exchange guidewire technique. de Marchena E, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):183–6

Sequential multivessel coronary angioplasty assessed by thallium-201 tomography. DePuey EG, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):213–21

On percutaneous aspiration of a coronary thrombus [letter; comment] Eeente P, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):199 Comment on: Cathet Cardiovasc Diagn 1989 Jun;17(2):97–8.

Staged thrombolysis and percutaneous transluminal coronary angioplasty for unstable and postinfarction angina. Hurley DV, et al. **Cathet Cardiovasc Diagn** 1989 Oct;18(2):67–72

Retrograde coronary angioplasty of isolated arterial segments through saphenous vein bypass grafts. Kahn JK, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):88–93

Probe exchange catheter used for angioplasty of total coronary artery occlusions. Kiemeneij F, et al. **Cathet Cardiovasc Diagn** 1990 Apr;19(4):289–93

Intracoronary thrombectomy: a new approach to total occlusion. Kipperman RM, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):244–8

Probe "balloon on a wire" ultra-low-profile coronary catheter: results of PTCA in 107 patients. Martinez A, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):222–6

Complex coronary angioplasty: use of a new microprobe balloon catheter. Mayo JR, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):150–8

Monorail Piccolino catheter: a new rapid exchange/ultralow profile coronary angioplasty system. Mooney MR, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):114–9

Exit block: a new technique for difficult side branch angioplasty. Nakhjavan FK, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):43–5

Treatment of coronary artery stenosis and coronary arteriovenous fistula by interventional cardiology techniques. Nguyen K, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):240–3

Circumferential rupture and entrapment of a balloon-on-a-wire device during coronary angioplasty. Nukta E, et al. **Cathet Cardiovasc Diagn** 1990 Jun; 20(2):123–5

Acute infarction during triple-vessel coronary angioplasty due to acute occlusion of a nonattempted vessel. Ricou F, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):39–42

Use of femoral artery guiding catheters via the left brachial artery for transluminal coronary angioplasty. Spaccavento LJ, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):182–4

Percutaneous transluminal coronary angioplasty using a steerable guiding catheter: a new technique. Stefanadis C, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):187–90

A randomized trial of corticosteroids for the prevention of restenosis in 102 patients undergoing repeat coronary

angioplasty [see comments] Stone GW, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):227–31 Comment in: Cathet Cardiovasc Diagn 1990 May;20(1):71.

Case of spontaneous healing of occlusive dissection on percutaneous transluminal coronary angioplasty. Takatsu F, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):249–54

Preliminary results utilizing a new percutaneous transluminal coronary angioplasty balloon catheter. Talley JD, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):108–13

Management of complicated coronary angioplasty by intracoronary urokinase and immediate re-angioplasty. Verna E, et al. **Cathet Cardiovasc Diagn** 1990 Feb; 19(2):116–22

Elective supported angioplasty: initial report of the National Registry. Vogel RA, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):22–6

"High-risk" percutaneous transluminal coronary angioplasty with preventive intra-aortic balloon counterpulsation. Voudris V, et al. **Cathet Cardiovasc Diagn** 1990 Mar; 19(3):160–4

Guiding catheter exchange during coronary angioplasty. Warren SG, et al. **Cathet Cardiovasc Diagn** 1990 Jul; 20(3):212–5

New frontiers in interventional cardiology. A symposium. Naples, Florida, October 7–9, 1988. Proceedings. **Circulation** 1990 Mar;81(3 Suppl):IV1–116

Restenosis after percutaneous transluminal coronary angioplasty—anatomic and pathophysiological mechanisms. Strategies for prevention. Block PC. **Circulation** 1990 Mar;81(3 Suppl):IV2–4 (33 ref.)

Recurrent ischemia more than 1 year after successful percutaneous transluminal coronary angioplasty. An analysis of the extent and anatomic pattern of coronary disease. Bottner RK, et al. **Circulation** 1989 Dec; 80(6):1580–4

Should silent ischemia be treated in asymptomatic individuals? Cohn PF. **Circulation** 1990 Sep;82(3 Suppl):II149–54 (32 ref.)

Coronary morphologic and clinical determinants of procedural outcome with angioplasty for multivessel coronary disease. Implications for patient selection. Multivessel Angioplasty Prognosis Study Group [see comments] Ellis SG, et al. **Circulation** 1990 Oct; 82(4):1193–202 Comment in: Circulation 1990 Oct;82(4):1516–8.

Efficacy and safety of coronary balloon angioplasty and directional atherectomy [editorial; comment] Hillis LD. **Circulation** 1990 Jul;82(1):305–7 Comment on: Circulation 1990 Jul:82(1):69–79.

Laser balloon angioplasty. A new approach to abrupt coronary occlusion and chronic restenosis. Jenkins RD, et al. **Circulation** 1990 Mar;81(3 Suppl):IV101–8

Acute coronary occlusion after percutaneous transluminal coronary angioplasty. Evolving strategies and implications [comment] Kulick DL, et al. **Circulation** 1990 Sep; 82(3):1039–43 Comment on: Circulation 1990 Sep;82(3):739–50.

Effect of the hemopump left ventricular assist device on regional myocardial perfusion and function. Reduction of ischemia during coronary occlusion. Merhige ME, et al. **Circulation** 1989 Nov;80(5 Pt 2):III158–66

A controlled trial of corticosteroids to prevent restenosis after coronary angioplasty. M-HEART Group. Pepine CJ, et al. **Circulation** 1990 Jun;81(6):1753–61

Is silent ischemia a treatable risk factor in patients with angina pectoris? Pepine CJ. **Circulation** 1990 Sep;82(3 Suppl):II135–42 (41 ref.)

Usefulness of high-dose dipyridamole echocardiography test in coronary angioplasty. Picano E, et al. **Circulation** 1989 Oct;80(4):807–15

Reversal of segmental hypokinesis by coronary angioplasty in patients with unstable angina, persistent T wave inversion, and left anterior descending coronary artery stenosis. Additional evidence for myocardial stunning in humans [see comments] Renkin J, et al. **Circulation** 1990 Sep;82(3):913–21 Comment in: Circulation 1990 Sep;82(3):1060–1.

Usefulness of calcium entry blockers during and after percutaneous transluminal coronary artery angioplasty. Schlant RC, et al. **Circulation** 1989 Dec;80(6 Suppl):IV88–92 (69 ref.)

Treatment strategy for coronary artery disease: a balancing act. Dimas A, et al. **Cleve Clin J Med** 1990 Jan–Feb; 57(1):19–21

PTCA in evolution: why is it so popular? Hartzler GO. **Cleve Clin J Med** 1990 Mar–Apr;57(2):121–4

Percutaneous transluminal coronary angioplasty in the young adult. Simpfendorfer C, et al. **Cleve Clin J Med** 1989 Sep; 56(6):569–72

Long-term follow-up of PTCA of the right coronary artery with shepherd's crook morphology. Tuzcu EM, et al. **Cleve Clin J Med** 1989 Sep;56(6):577–9

The effect of complete and incomplete revascularization on exercise variables in patients undergoing coronary angioplasty. Atwood JE, et al. **Clin Cardiol** 1990 Feb; 13(2):89–93

Malignant restenosis after primary successful excimer laser coronary angioplasty. Buchwald A, et al. **Clin Cardiol** 1990 Jun;13(6):397–400

Coronary angioplasty: a clinician's viewpoint. McCarthy DM. **Clin Ther** 1990 Mar–Apr;12(2):82–7 (18 ref.)

A method of extended myoventriculoplasty with programmable cardiosynchronized electroneurostimulation: description and initial clinical results. Dumcius AS, et al. **Cor Vasa** 1989;31(5):394–401

Advances in interventional cardiology: coronary balloon angioplasty and alternative techniques. Greenberg MA, et al. **Curr Opin Radiol** 1990 Aug;2(4):602–15 (44 ref.)

Invasive treatment of ischemic heart disease. 21–22 April 1989, Eindhoven, The Netherlands. Proceedings. **Eur Heart J** 1989 Dec;10 Suppl H:1–116

Patient follow-up after angioplasty: the problems of assessing restenosis. Beatt KJ, et al. **Eur Heart J** 1989 Dec;10 Suppl G:2–8 (18 ref.)

Bilateral mammary artery surgery or percutaneous transluminal coronary angioplasty for multivessel coronary artery disease? An analysis of effects and costs. Berreklouw E, et al. **Eur Heart J** 1989 Dec;10 Suppl H:61–70

Long-term follow-up of 100 patients with left anterior descending artery lesions treated with percutaneous transluminal coronary angioplasty. Bonnier H, et al. **Eur Heart J** 1989 Dec;10 Suppl H:49–51

Percutaneous transluminal coronary angioplasty more than twice for the same coronary lesion. Botman CJ, et al. **Eur Heart J** 1989 Dec;10 Suppl H:112–6

Long-term follow-up of coronary angioplasty: the 1977–1981 National Heart, Lung, and Blood Institute registry. Bourassa MG, et al. **Eur Heart J** 1989 Dec;10 Suppl G:36–41

Stress testing for management of post-PTCA patients: routine or elective. De Feyter PJ, et al. **Eur Heart J** 1989 Dec;10 Suppl G:27–9

Emergency angioplasty of the left main coronary artery. Groves PH, et al. **Eur Heart J** 1989 Dec;10(12):1123–5

Five years of angiographic and clinical follow-up after successful percutaneous transluminal coronary angioplasty. Guiteras P, et al. **Eur Heart J** 1989 Dec;10 Suppl G:42–8

Holter monitoring after PTCA. Hackett D, et al. **Eur Heart J** 1989 Dec;10 Suppl G:33–5 (35 ref.)

Multicentre European trials: their design, execution and relevance. Hugenholtz PG, et al. **Eur Heart J** 1989 Dec; 10 Suppl H:92–100

Recognition of restenosis: can patients be defined in whom the exercise-ECG result makes angiographic restudy unnecessary? Kadel C, et al. **Eur Heart J** 1989 Dec;10 Suppl G:22–6

Delayed improvement of myocardial function after recanalization of a chronic coronary occlusion in a patient with intractable heart failure. Klein HH, et al. **Eur Heart J** 1990 Mar;11(3):280–6

Results of repeat angiography up to eight years following percutaneous transluminal angioplasty. Kober G, et al. **Eur Heart J** 1989 Dec;10 Suppl G:49–53

Exercise testing and dipyridamole echocardiography test before and 48 h after successful coronary angioplasty: prognostic implications. Massa D, et al. **Eur Heart J** 1989 Dec;10 Suppl G:13–7

Prevention of restenosis after coronary angioplasty: a pharmacological approach. Meier B. **Eur Heart J** 1989 Dec; 10 Suppl G:64–8 (22 ref.)

Ambulatory ST segment monitoring in the assessment of patients following PTCA. Mulcahy D, et al. **Eur Heart J** 1989 Dec;10 Suppl G:30–2 (22 ref.)

Balloon occlusion during coronary angioplasty as a model of myocardial ischaemia: reproducibility of sequential inflations. Perry RA, et al. **Eur Heart J** 1989 Sep; 10(9):791–800

Detection of restenosis after coronary angioplasty for single-vessel disease: how reliable are exercise electrocardiography and scintigraphy in asymptomatic patients? Schroeder E, et al. **Eur Heart J** 1989 Dec;10 Suppl G:18–21

Stenting of coronary arteries. Are we the sorcerer's apprentice? Serruys PW, et al. **Eur Heart J** 1989 Sep; 10(9):774–82 (54 ref.)

Multiple lead monitoring during and after PTCA. Stäblein A, et al. **Eur Heart J** 1989 Dec;10 Suppl G:9–12

New interventional technology for the management of multivessel coronary artery disease. Stack RS, et al. **Eur Heart J** 1989 Dec;10 Suppl H:52–6

Coronary stenosis vasomotion during dynamic exercise before and after PTCA. Suter TM, et al. **Eur Heart J** 1989 Dec;10 Suppl G:58–63

Cardiovascular options for the 1990s. Schron EB, et al. **Geriatr Nurs (New York)** 1990 Jul–Aug;11(4):187–90

Percutaneous transluminal coronary angioplasty using kissing balloon technique in the left main trunk. Nanto S, et al. **Heart Vessels** 1990;5(2):107–12

Coronary angioplasty of 'complex lesions' in patients with unstable angina. Gambhir DS, et al. **Indian Heart J** 1989 Jul–Aug;41(4):233–9

Percutaneous transluminal coronary angioplasty: update 1988. Pinkerton CA, et al. **Indiana Med** 1989 Oct; 82(10):770–5

Changes in blood pressure and heart rate during passive upright tilt upon electrical carotid sinus nerve stimulation. Peters TK, et al. **Int J Cardiol** 1990 Jan;26(1):31–5

Successful embolization of a coronary arterial fistula [letter] Reidy JF, et al. **Int J Cardiol** 1990 May;27(2):285

Treatment for chronic CHD. Julian D. **Int J Epidemiol** 1989; 18(3 Suppl 1):S228–30

How will we treat our number one killer? Chappell D, et al. **Iowa Med** 1990 Jan;80(1):27–30

Coronary angioplasty for total occlusion: ongoing problems despite improving results [editorial; comment] Baim DS, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):857–8 Comment on: J Am Coll Cardiol 1990 Mar 15;15(4):849–56.

Problems in the development of new devices for coronary intervention: possible role for a multicenter registry. Baim DS, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1389–92

Restenosis after coronary angioplasty: new standards for clinical studies. Beatt KJ, et al. **J Am Coll Cardiol** 1990 Feb;15(2):491–8

Percutaneous transluminal angioplasty in patients with multivessel coronary disease: how important is complete revascularization for cardiac event-free survival? Bell MR, et al. **J Am Coll Cardiol** 1990 Sep;16(3):553–62

Diastolic function in patients undergoing coronary angioplasty: influence of degree of revascularization. Castello R, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1564–9

Percutaneous coronary rotational angioplasty in humans: preliminary report. Fourrier JL, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1278–82

Reversal of chronic regional myocardial dysfunction (hibernating myocardium) by synchronized diastolic coronary venous retroperfusion during coronary angioplasty. Hajduczki I, et al. **J Am Coll Cardiol** 1990 Jan;15(1):238–42

Predicting late restenosis after coronary angioplasty by very early (12 to 24 h) thallium-201 scintigraphy: implications with regard to mechanisms of late coronary restenosis. Hardoff R, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1486–92

Angiographic patterns of balloon inflation during percutaneous transluminal coronary angioplasty: role of pressure-diameter curves in studying distensibility and elasticity of the stenotic lesion and the mechanism of dilation [see comments] Hjemdahl-Monsen CE, et al. **J Am Coll Cardiol** 1990 Sep;16(3):569–75 Comment in: J Am Coll Cardiol 1990 Sep;16(3):576–7.

Very early prediction of restenosis after successful coronary angioplasty: how early is early and can we identify it? [editorial; comment] Holmes DR Jr. **J Am Coll Cardiol** 1990 Feb;15(2):265–6 Comment on: J Am Coll Cardiol 1990 Feb;15(2):259–64.

Is there a role for multivessel coronary angioplasty early after acute myocardial infarction? [editorial; comment] Kennedy JW. **J Am Coll Cardiol** 1990 Sep;16(3):551–2 Comment on: J Am Coll Cardiol 1990 Sep;16(3):545–50.

Percutaneous transluminal coronary angioplasty: is what we see what we get? [editorial; comment] Kleiman NS, et al. **J Am Coll Cardiol** 1990 Sep;16(3):576–7 Comment on: J Am Coll Cardiol 1990 Sep;16(3):569–75.

Effect of short-term prostacyclin administration on restenosis after percutaneous transluminal coronary angioplasty. Knudtson ML, et al. **J Am Coll Cardiol** 1990 Mar 1; 15(3):691–7

Clinical and angiographic results of balloon-expandable intracoronary stents in right coronary artery stenoses. Levine MJ, et al. **J Am Coll Cardiol** 1990 Aug;16(2):332–9

Cardiopulmonary support: the risk and benefits of assisted coronary angioplasty [editorial; comment] Myler RK, et al. **J Am Coll Cardiol** 1990 Jan;15(1):30–1 Comment on: J Am Coll Cardiol 1990 Jan;15(1):23–9.

Multivessel coronary angioplasty early after acute myocardial infarction [see comments] Nath A, et al. **J Am Coll Cardiol** 1990 Sep;16(3):545–50 Comment in: J Am Coll Cardiol 1990 Sep;16(3):551–2.

A 10 year follow-up of single vessel angioplasty: some important lessons and lingering questions [editorial; comment] Ryan TJ. **J Am Coll Cardiol** 1990 Jul;16(1):66–7 Comment on: J Am Coll Cardiol 1990 Jul;16(1):57–65.

Percutaneous coronary laser balloon angioplasty: initial results of a multicenter experience. Spears JR, et al. **J Am Coll Cardiol** 1990 Aug;16(2):293–303

Myocardial salvage after failed coronary angioplasty. Stark KS, et al. **J Am Coll Cardiol** 1990 Jan;15(1):78–82

Procedural outcome of angioplasty for total coronary artery occlusion: an analysis of 971 lesions in 905 patients [see comments] Stone GW, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):849–56 Comment in: J Am Coll Cardiol 1990 Mar 15;15(4):857–8.

Very early prediction of restenosis after successful coronary angioplasty: anatomic and functional assessment [see comments] el-Tamimi H, et al. **J Am Coll Cardiol** 1990 Feb;15(2):259–64 Comment in: J Am Coll Cardiol 1990 Feb;15(2):265–6.

Initial report of the National Registry of Elective Cardiopulmonary Bypass Supported Coronary Angioplasty [see comments] Vogel RA, et al. **J Am Coll Cardiol** 1990 Jan;15(1):23–9 Comment in: J Am Coll Cardiol 1990 Jan;15(1):30–1.

Augmented myocardial perfusion reserve after coronary angioplasty quantified by positron emission tomography with H2(15)O [see comments] Walsh MN, et al. **J Am Coll Cardiol** 1990 Jan;15(1):119–27 Comment in: J Am Coll Cardiol 1990 Jan;15(1):128–30.

Bidirectional crossover and late outcome after coronary angioplasty and bypass surgery: 8 to 11 year follow-up [see comments] Webb JG, et al. **J Am Coll Cardiol** 1990 Jul;16(1):57–65 Comment in: J Am Coll Cardiol 1990 Jul;16(1):66–7.

Diabetic heart disease—current problems and their management. Das AK. **J Assoc Physicians India** 1989 Feb; 37(2):163–5 (25 ref.)

Percutaneous transluminal coronary angioplasty: an expanding role in complex coronary artery disease. Lucenta

B, et al. **J La State Med Soc** 1990 May;142(5):39–43 (22 ref.)

Coronary stents: a review of recent developments. Walker CM, et al. **J La State Med Soc** 1990 May;142(5):25–32 (21 ref.)

Interventional treatment for ventricular arrhythmias: the initial South Carolina case. Stewart D, et al. **J S C Med Assoc** 1990 Jun;86(6):341–5

Operative transluminal balloon angioplasty. Adjunct to coronary bypass for extended myocardial revascularization of more than 3000 lesions in 1000 patients. Urschel HC Jr, et al. **J Thorac Cardiovasc Surg** 1990 Apr;99(4):581–8; discussion 588–9

Long-term follow-up of medically treated patients with coronary artery disease—I. Incidence of major cardiac events and its risk factors in Japanese with coronary artery disease. Hosoda S, et al. **Jpn Circ J** 1990 Mar;54(3):231–40

Long-term follow-up of medically treated patients with coronary artery disease—II. Unstable angina pectoris, asymptomatic periods, and sudden unexpected cardiac events. Hosoda S, et al. **Jpn Circ J** 1990 Mar;54(3):241–8

Preliminary clinical experience with intermittent coronary sinus occlusion in combination with thrombolytic therapy in acute myocardial infarction. Komamura K, et al. **Jpn Circ J** 1989 Sep;53(9):1152–63

The effect of the left ventricular assist device on the myocardium during reperfusion after coronary artery occlusion. Matsumoto N, et al. **Jpn J Surg** 1990 May; 20(3):300–6

Pharmacological therapy after coronary angioplasty. Early experience with low molecular weight heparin for prophylaxis of reocclusion. Schmidt T, et al. **Klin Wochenschr** 1990 Mar 5;68(5):294

Can lifestyle changes reverse coronary heart disease? [letter] **Lancet** 1990 Sep 8;336(8715):624–6

BARI, CABRI, EAST, GABI, and RITA: coronary angioplasty on trial [editorial] **Lancet** 1990 Jun 2; 335(8701):1315–6

Audit of coronary angiography and bypass surgery. Gray D, et al. **Lancet** 1990 Jun 2;335(8701):1317–20

Prophylactic intraventricular pumping in high-risk coronary angioplasty. Loisance D, et al. **Lancet** 1990 Feb 24; 335(8687):438–40

Resistive weight training: a new approach to exercise for cardiac and coronary disease prone populations. A symposium. **Med Sci Sports Exerc** 1989 Dec;21(6):667–97

Resistive training safety and assessment guidelines for cardiac and coronary prone patients. Kelemen MH. **Med Sci Sports Exerc** 1989 Dec;21(6):675–7

Introduction to the symposium: resistive weight training: a new approach to exercise for cardiac and coronary disease prone populations. Stewart KJ. **Med Sci Sports Exerc** 1989 Dec;21(6):667–8

Resistive training effects on strength and cardiovascular endurance in cardiac and coronary prone patients. Stewart KJ. **Med Sci Sports Exerc** 1989 Dec;21(6):678–82

Coronary angioplasty of re-stenosed lesions: a case history. Swann G. **Radiogr Today** 1989 Dec;55(631):24–6

The annual oration. Changing views on the heart attack. Julian D. **Trans Med Soc Lond** 1987–88;104:149–53

Sulotroban during and after coronary angioplasty. A double-blind, placebo controlled study. Finci L, et al. **Z Kardiol** 1989;78 Suppl 3:50–4

[Studies on the interrelationships between some acupoints on pericardial channel and heart] Cao Q, et al. **Chen Tzu Yen Chiu** 1990;15(1):35–9 (Eng. Abstr.) **(Chi)**

[Role of "qi" in reaching affected area using acupuncture in "promoting blood circulation to remove blood stasis"] Cheng L, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr; 10(4):209–11, 196 (Eng. Abstr.) **(Chi)**

[The efficacy of electromyographic biofeedback treatment on cardiovascular disease and the correlation of type A behavior and traditional Chinese medicine syndrome differentiation] Yang JX. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep;9(9):533–6, 515–6 (Eng. Abstr.) **(Chi)**

[15 case reports of percutaneous transluminal coronary angioplasty] Huang YL. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Apr; 17(2):118–9 **(Chi)**

[Transluminal coronary angioplasty at the same time as or separate from coronarography. Comparative results] Crochet D, et al. **Ann Radiol (Paris)** 1989;32(5):375–80 (Eng. Abstr.) **(Fre)**

[Report of the joint meeting of the International Society and Federation of Cardiology and the World Health Organization Task Force on Coronary Angioplasty] Bourassa MG, et al. **Arch Mal Coeur** 1989 Dec; 82(12):2053–63 **(Fre)**

[Coaxial catheterization with an ultra-flexible catheter (Tracker) in coronary angioplasty] Brenot P, et al. **Arch Mal Coeur** 1990 Jun;83(7):983–8 (Eng. Abstr.) **(Fre)**

[Comparative results of coronary angioplasty performed at the time of coronarography and at a later time] Crochet D, et al. **Arch Mal Coeur** 1990 Mar;83(3):315–20 (Eng. Abstr.) **(Fre)**

[Early occlusion and dissection in coronary angioplasty. Apropos of 855 patients] Kosmider M, et al. **Arch Mal Coeur** 1989 Sep;82(9):1505–9 (Eng. Abstr.) **(Fre)**

[Coronary endarterectomy using an excimer laser. Preliminary peroperative results] Ollivier JP, et al. **Arch Mal Coeur** 1989 Dec;82(12):2009–13 (Eng. Abstr.) **(Fre)**

[Treatment of coronary restenosis by repeated coronary transluminal angioplasty. Immediate and medium-term results] Rossi P, et al. **Arch Mal Coeur** 1989 Dec; 82(12):2015–20 (Eng. Abstr.) **(Fre)**

[Transluminal coronary angioplasty using a percutaneous axillary route with an arterial sheath] Valeix B, et al. **Arch Mal Coeur** 1989 Sep;82(9):1551–6 (Eng. Abstr.) **(Fre)**

[Management and treatment of acute myocardial ischemia in diabetic patients] Aumont MC, et al. **Journ Annu Diabetol Hotel Dieu** 1990;.105–15 (37 ref.) **(Fre)**

[Current results of coronary transluminal angioplasty] Cherrier F, et al. **Presse Med** 1990 Feb 17;19(6):259–63 (Eng. Abstr.) **(Fre)**

[Immediate and late complications secondary to the implantation of a coronary endoprosthesis] Vogt P, et al. **Schweiz Med Wochenschr** 1989 Oct 28;119(43):1521–4 (Eng. Abstr.) **(Fre)**

[The endothelium and antithrombotic substances] Eber B. **Acta Med Austriaca** 1989;16(5):102–4 (29 ref.) (Eng. Abstr.) **(Ger)**

[What therapeutic measures ensure long-term effect in coronary heart disease?] Blümchen G. **Arzneimittelforschung** 1990 Mar;40(3A):377–8 (21 ref.) (Eng. Abstr.) **(Ger)**

[Computer-assisted coronary dilatation and model presentations] Albrecht J, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:75–6 **(Ger)**

[Acute effects of extracorporeal LDL cholesterol and fibrinogen elimination on blood rheology and microcirculation] Kleophas W, et al. **Dtsch Med Wochenschr** 1990 Jan 5;115(1):3–7 (Eng. Abstr.) **(Ger)**

[Oxygen multi-stage therapy] Nolte D. **Dtsch Med Wochenschr** 1990 Mar 9;115(10):395 **(Ger)**

[Intra-aortal balloon counterpulsation in acute myocardial infarction, ischemic left ventricle insufficiency and treatment refractory angina pectoris] Scholz KH, et al. **Dtsch Med Wochenschr** 1989 Nov 24;114(47):1821–7 (Eng. Abstr.) **(Ger)**

[Treatment of coronary heart disease in the aged. When balloon dilatation, when surgery?] Schwarz F, et al. **Dtsch Med Wochenschr** 1990 Jul 27;115(30):1131–5 (Eng. Abstr.) **(Ger)**

[Acute and chronic effects of molsidomine in therapeutic coronary angioplasty] Darius H, et al. **Med Klin** 1990 Feb; 85 Suppl 1:23–6 (Eng. Abstr.) **(Ger)**

[Current status and future developments of percutaneous transluminal coronary angioplasty] Figulla HR, et al. **Med Klin** 1989 Dec 15;84(12):595–9 (29 ref.) **(Ger)**

[Does the cardiogoniogram change following revascularization?] Herrmann HJ, et al. **Schweiz Med Wochenschr** 1989 Jul 11;119(27–28):979–83 (Eng. Abstr.) **(Ger)**

[Local developments in coronary angioplasty (letter)] Krayenbühl HP. **Schweiz Med Wochenschr** 1989 Nov 11; 119(45):1609–10 **(Ger)**

[Local development of coronary angioplasty] Meier B. **Schweiz Med Wochenschr** 1989 Jul 29;119(30):1033–9 (Eng. Abstr.) **(Ger)**

[Interventional therapy in coronary heart disease] Kappenberger L, et al. **Schweiz Rundsch Med Prax** 1990 Mar 6;79(10):277–9 (Eng. Abstr.) **(Ger)**

[Clinical aspects and conservative therapy of coronary heart disease in chronic renal failure] Bolte HD. **Verh Dtsch Ges Inn Med** 1989;95:66–74 (27 ref.) **(Ger)**

[The patient following PTCA] Klein W, et al. **Wien Med Wochenschr** 1990 Jun 15;140(10–11):273–4 (Eng. Abstr.) **(Ger)**

[Restenosis following coronary dilatation] Leisch F. **Wien Med Wochenschr** 1990 Mar 15;140(5):131–3 (16 ref.) (Eng. Abstr.) **(Ger)**

[Incidence of residual thrombi following successful thrombolytic therapy in acute myocardial infarct and their significance for the rate of early re-occlusion. A report of a multicenter dose-finding study for thrombolytic therapy with urokinase preactivated natural prourokinase (TCL 598)] Gulba DC, et al. **Z Kardiol** 1990 Apr; 79(4):279–85 (Eng. Abstr.) **(Ger)**

[Experimental intracoronary Excimer laser angioplasty] Haase KK, et al. **Z Kardiol** 1990 Mar;79(3):183–8 (Eng. Abstr.) **(Ger)**

[The effect of intravenous nifedipine administration on coronary occlusion during coronary angioplasty on ischemia tolerance and collateral function] Ischinger T, et al. **Z Kardiol** 1990 Mar;79(3):166–75 (Eng. Abstr.) **(Ger)**

[Long-term clinical follow-up after coronary dilatation] Kadel C, et al. **Z Kardiol** 1990 Jul;79(7):512–7 (Eng. Abstr.) **(Ger)**

[Percutaneous coronary Excimer laser angioplasty in patients with coronary heart disease] Karsch KR, et al. **Z Kardiol** 1990 Jul;79(7):506–11 (Eng. Abstr.) **(Ger)**

[Protective function of collaterals in percutaneous transluminal coronary angioplasty] Reifart N, et al. **Z Kardiol** 1990 Jun;79(6):446–9 (Eng. Abstr.) **(Ger)**

[Acute complications in coronary angioplasty: dependence on catheter material and adjuvant medication] Spielberg C, et al. **Z Kardiol** 1990 Jun;79(6):450–4 (Eng. Abstr.) **(Ger)**

[Coronary angioplasty—can the risk of recurrence be predicted on the day of surgery? A prospective study] Vallbracht C, et al. **Z Kardiol** 1990 Mar;79(3):161–5 (Eng. Abstr.) **(Ger)**

[Percutaneous coronary transluminal angioplasty with extracorporeal circulation: preliminary results] Barragan P, et al. **Cardiologia** 1989 Dec;34(12):989–92 (Eng. Abstr.) **(Ita)**

[Effect of coronary revascularization by percutaneous coronary transluminal angioplasty on the diastolic filling of the left ventricle] De Simone R, et al. **Cardiologia** 1989 Dec;34(12):993–9 (Eng. Abstr.) **(Ita)**

[Coronary angioplasty in Italy: why the delay?] Klugmann S. G **Ital Cardiol** 1990 Mar;20(3):272–6 (Eng. Abstr.) **(Ita)**

[Advances in intracoronary thrombolysis treatment] Kawai C. **J Cardiol** 1988 Dec;18(4):1149–53 (Eng. Abstr.) **(Jpn)**

[Exercise radionuclide ventriculography in evaluating successful percutaneous transluminal coronary angioplasty (PTCA)] Koyama T, et al. **Kaku Igaku** 1989 Nov; 26(11):1381–8 (Eng. Abstr.) **(Jpn)**

[Restenosis after percutaneous transluminal coronary angioplasty] Haze K. **Kokyu To Junkan** 1989 Dec; 37(12):1283–93 **(Jpn)**

[Percutaneous transluminal angioplasty in patients with prior coronary artery bypass grafting] Enomoto S, et al. **Kyobu Geka** 1989 Sep;42(10):814–7 (Eng. Abstr.) **(Jpn)**

[PTCA and coronary artery bypass operation prior to subsequent surgery of gastric cancer in patients with coronary artery disease] Kohno H, et al. **Kyobu Geka** 1989 Nov;42(12):1005–8 (Eng. Abstr.) **(Jpn)**

[Noncardiac surgery in patients with ischemic heart disease] Shimoyama Y, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar; 91(3):320–5 (Eng. Abstr.) **(Jpn)**

[Recent treatment of ischemic heart disease] Hosoda K. **Nippon Naika Gakkai Zasshi** 1990 Mar 10;79(3):359–62 **(Jpn)**

[Restenosis after coronary angioplasty] Pedersen HK, et al. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):830–2 (Eng. Abstr.) **(Nor)**

[Angioplasty in acute and chronic occlusion of the coronary arteries] Dąbrowski M, et al. **Kardiol Pol** 1989;32(4):185–93 (Eng. Abstr.) **(Pol)**

[Use of photogrammetry for evaluating the effectiveness of percutaneous transluminal coronary angioplasty] Dabrowski M, et al. **Kardiol Pol** 1989;32 Suppl 1:30–5 (Eng. Abstr.) **(Pol)**

[Coronary angioplasty: current status and perspectives] Arie S, et al. **AMB Rev Assoc Med Bras** 1989 Jul–Sep; 35(4):151–8 (42 ref.) **(Por)**

[Coronary angioplasty: efficacy of the new low profile balloon catheters] Feres F, et al. **Arq Bras Cardiol** 1989 Dec;53(6):307–11 (Eng. Abstr.) **(Por)**

[Acute coronary occlusion in percutaneous coronary angioplasty. Treatment using thrombolysis and redilatation] Quininha J, et al. **Rev Port Cardiol** 1988 May–Jun; 7(3):287–91 (Eng. Abstr.) **(Por)**

[Effect of hyperbaric oxygenation on the status of the renin-angiotensin-aldosterone system in chronic circulatory insufficiency in elderly patients with ischemic heart disease] Khaidarova GKh, et al. **Anesteziol Reanimatol** 1989 May-Jun;(3):33–5 (Eng. Abstr.) **(Rus)**

[State of the blood platelet link of hemostasis and microcirculation in patients with ischemic heart disease during plasmapheresis treatment] Kirichenko LL, et al. **Kardiologiia** 1989 Dec;29(12):85–90 (Eng. Abstr.) **(Rus)**

[Combined helium-neon laser therapy in patients with ischemic heart disease] Korochkin IM, et al. **Kardiologiia** 1990 Mar;30(3):24–8 (Eng. Abstr.) **(Rus)**

[Computer-assisted selection of therapeutic measures in ischemic heart disease and arterial hypertension during mass screening of a rural population] Minakov EV. **Kardiologiia** 1990 Feb;30(2):42–5 (Eng. Abstr.) **(Rus)**

[Possibilities of hemosorption in the compensation of cardiac dysfunction in patients with ischemic heart disease associated with diabetes mellitus] Trusov VV, et al. **Kardiologiia** 1990 Feb;30(2):58–61 (Eng. Abstr.) **(Rus)**

[Hemosorption in the treatment of patients with ischemic heart disease and drug-resistant stenocardia] Zaruba Alu, et al. **Klin Med (Mosk)** 1989 Aug;67(8):89–92 (Eng. Abstr.) **(Rus)**

[Subpleural blocking in the treatment of ischemic heart disease during the prehospital stage] Zaltsev OG, et al. **Sov Med** 1989;(7):69–71 **(Rus)**

[Complex coronary angioplasty. II. Dilatation of the multiple lesions in stenosis of one or several coronary vessels] Dorros G, et al. **Ter Arkh** 1989;61(10):22–5 (Eng. Abstr.) **(Rus)**

[Complex coronary angioplasty. I. Single or multiple dilatations in the involvement of several vessels in patients with coronary heart disease] Dorros G, et al. **Ter Arkh** 1989;61(10):18–22 (Eng. Abstr.) **(Rus)**

[Various aspects of the organization of medical services for patients with ischemic heart disease in the USSR] Chekanov VS, et al. **Vestn Khir** 1989 Jul;143(7):112–5 **(Rus)**

[Balloon dilatation of the right coronary artery and permanent atrial electric stimulation in ischemic heart disease complicated by sick sinus syndrome] Silin VA, et al. **Vestn Khir** 1989 Aug;144(8):58–60 **(Rus)**

[The efficacy of intravenous laser therapy of patients with ischemic heart disease at a day hospital of a polyclinic] Pashnev VIa, et al. **Voen Med Zh** 1989 Dec;(12):38–9 **(Rus)**

[The use of central electroanalgesia in the combined sanatorium–health resort treatment of patients with ischemic heart disease and hypertension] Kosoverov EO, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):36–9 (Eng. Abstr.) **(Rus)**

[The effect of sanatorium–health resort treatment using carbonate baths on the physical work capacity and the coronary and myocardial reserves of the heart in patients with ischemic heart disease] Makushkin AK, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):47–8 **(Rus)**

[The effect of ultrasound of various intensities on erythrocyte lipid peroxidation in patients with ischemic heart disease] Pogosian NR, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Jul–Aug;(4):51–2 **(Rus)**

[The effect of electroacupuncture and acupuncture on ischemic and reperfusion cardiac arrhythmias] Radzievskiĭ SA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec;(6):7–9 (Eng. Abstr.) **(Rus)**

[The effect of contrasting baths on the autonomic regulation of cardiac activity in patients with ischemic heart disease (stable stenocardia and postinfarct cardiosclerosis)] Sorokina EI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):32–6 **(Rus)**

[A comparative assessment of changes in cardiovascular function under the influence of sodium chloride baths and underwater douche–massage for optimizing programs for the sanatorium treatment of patients with ischemic heart disease] Turgenev VV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Sep–Oct;(5):13–6 **(Rus)**

[Hemosorption in the combined treatment of patients with ischemic heart disease and diabetes mellitus] Trusov VV, et al. **Vrach Delo** 1989 Jul;(7):86–8 (Eng. Abstr.) **(Rus)**

[Transluminal intraoperative coronary dilatation combined with coronary surgery] Jelesijević V, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:673–7 **(Scr)**

[Interventional cardiac catheterization] Finci L, et al. **Med Arh** 1987;41(6):305–11 (Eng. Abstr.) **(Scr)**

[Coronary angioplasty. Results observed in 14 cases] de la Llata Romero M, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):481–6 (Eng. Abstr.) **(Spa)**

[Complex coronary angioplasty. Report of 3 cases] de la Llata Romero M, et al. **Arch Inst Cardiol Mex** 1990 Mar–Apr; 60(2):195–200 (Eng. Abstr.) **(Spa)**

[Coronary angioplasty in the treatment of symptomatic myocardial ischemia with one vessel disease] Treviño AJ, et al. **Arch Inst Cardiol Mex** 1990 Mar–Apr;60(2):159–65 (Eng. Abstr.) **(Spa)**

[Coronary angioplasty performed at the same time as diagnostic coronarography] Alfonso F, et al. **Rev Esp Cardiol** 1989 Dec;42(10):645–52 (Eng. Abstr.) **(Spa)**

[Coronary angioplasty on calcified lesions] Alfonso F, et al. **Rev Esp Cardiol** 1990 Apr;43(4):231–8 (Eng. Abstr.) **(Spa)**

[Characteristics of coronary angioplasty in young patients] Alfonso F, et al. **Rev Esp Cardiol** 1990 Apr;43(4):239–45 (Eng. Abstr.) **(Spa)**

[Distal hemoperfusion during coronary angioplasty with prolonged balloon inflation] Calvo L, et al. **Rev Esp Cardiol** 1989 Nov;42(9):587–92 (Eng. Abstr.) **(Spa)**

[Immediate results of coronary angioplasty in elderly patients. Experience at the Gregorio Marañón General Hospital] Martínez Elbal L, et al. **Rev Esp Cardiol** 1989 Jan; 42(1):36–40 (Eng. Abstr.) **(Spa)**

[Therapeutic catheterization in cardiology of adults] Moreyra E. **Rev Fac Cien Med Univ Nac Cordoba** 1987;45(2):3–5 (37 ref.) **(Spa)**

[Coronary transluminal angioplasty and determination of the intracoronary gradient with a new monorail system] Freitas AD, et al. **Rev Port Cardiol** 1989 Oct;8(10):699–702 (Eng. Abstr.) **(Spa)**

[Silent ischemia. To treat or not to treat? (published erratum appears in Rev Port Cardiol 1990 Apr;9(4):302)] López-Sendón J, et al. **Rev Port Cardiol** 1990 Feb; 9(2):161–6 (35 ref.) (Eng. Abstr.) **(Spa)**

URINE

[Urine–Cr assay with diphenylcarbazide] Li YQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):85–7 (Eng. Abstr.) **(Chi)**

CORONARY HEART DISEASE see **CORONARY DISEASE**

CORONARY PRONE PERSONALITY see **TYPE A PERSONALITY**

CORONARY REPERFUSION see **MYOCARDIAL REPERFUSION**

CORONARY THROMBOSIS see under **CORONARY DISEASE**

CORONARY VASOSPASM

Diffuse coronary vasospasm and accelerated atherosclerosis in a transplanted human heart. Little T, et al. **Am J Cardiol** 1989 Oct 1;64(12):825–7

[Coronary spasm (editorial)] Trubetskoĭ AV. **Kardiologiia** 1989 Nov;29(11):25–8 **(Rus)**

BLOOD

Humoral regulation during cold-induced coronary arterial spasm. Stefenelli T, et al. **Int J Cardiol** 1989 Nov; 25(2):199–205

CHEMICALLY INDUCED

Comparative sensitivity of intracoronary injection of acetylcholine for the induction of coronary spasm in patients with various types of angina pectoris. Miwa K, et al. **Am Heart J** 1990 Sep;120(3):544–50

Coronary spastic angina precipitated by the administration of an anticholinesterase drug (distigmine bromide). Yamabe H, et al. **Am Heart J** 1990 Jul;120(1):211–3

Coronary artery spasm and myocardial infarction in a patient with normal coronary arteries: temporal relationship to pseudoephedrine ingestion. Wiener I, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):51–3

Effects of intracoronary injection of ergonovine on angiographic normal coronary arteries: study of 108 consecutive patients. Fournier JA, et al. **Clin Cardiol** 1989 Oct;12(10):561–8

Coronary artery spasm induced by anesthesia: a case report and review of the literature. Soto E, et al. **Clin Cardiol** 1990 Jan;13(1):59–61

Anginal attack following a sodium bicarbonate and hydrocortisone injection. Wu DJ, et al. **Jpn Heart J** 1990 Jan;31(1):109–13

Cocaine and vasospasm [editorial; comment] Isner JM, et al. **N Engl J Med** 1989 Dec 7;321(23):1604–6 Comment on: N Engl J Med 1989 Dec 7;321(23):1557–62.

Cardiopulmonary abnormalities after smoking cocaine. Christou T, et al. **South Med J** 1990 Mar;83(3):335–8

[Cardiotoxicity of 5 fluoro–uracil. Apropos of a case] Mazoyer G, et al. **Rev Mal Respir** 1989;6(6):551–3 (Eng. Abstr.) **(Fre)**

[The role of tests provoking hypertension or coronary vasospasm in the ergometry laboratory] Ardissino D, et al. **G Ital Cardiol** 1989 Jun;19(6):555–7 (20 ref.) **(Ita)**

[Induction of coronary arterial spasm by intracoronary administration of acetylcholine in patients with vasospastic angina] Miwa K, et al. **J Cardiol** 1989 Sep;19(3):749–55 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Possible role of coronary artery spasm in unexplained syncope. Igarashi Y, et al. **Am J Cardiol** 1990 Mar 15; 65(11):713–7

Behavior of right and left ventricles during episodes of variant angina in relation to the site of coronary vasospasm. Neglia D, et al. **Circulation** 1990 Feb;81(2):567–77

[Coronary artery spasm as a rare cause of sudden heart arrest] Schuchert A, et al. **Z Kardiol** 1989 Oct;78(10):683–7 (Eng. Abstr.) **(Ger)**

[Ischemic cardiopathy with normal epicardial coronary arteries. Probable spasm of the coronary arteries. A case report] Jorge PA, et al. **Arq Bras Cardiol** 1989 Feb; 52(2):95–7 (Eng. Abstr.) **(Por)**

[Transitory coronary spasm in the genesis of myocardial infarct] Permiakov NK, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):121–3 **(Rus)**

[The anti–anginal effect of diltiazem in patients with stable exercise–induced stenocardia and vasospastic stenocardia compared with the effect of nifedipine] Kocherga EIu, et al. **Kardiologiia** 1990 Feb;30(2):29–31 (Eng. Abstr.) **(Rus)**

[Thrombosis and spasm—interconnected reasons for acute coronary obstruction] Roĭtberg GE, et al. **Klin Med (Mosk)** 1989 Jul;67(7):135–7 **(Rus)**

DIAGNOSIS

The value of exercise testing in patients with coronary artery spasm. Castello R, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):259–63

Usefulness of the hyperventilation test in stable exertional angina pectoris in selecting medical therapy. Ardissino D, et al. **Am J Cardiol** 1990 Feb 15;65(7):417–21

"Silent" myocardial ischaemia in essential hypertension. Yurenev AP, et al. **Cor Vasa** 1990;32(1):13–8

[Long–term prognosis of coronary artery spasm] Hannebicque G, et al. **Arch Mal Coeur** 1990 Apr; 83(4):461–7 (17 ref.) (Eng. Abstr.) **(Fre)**

[Value of negative U waves in coronary artery spasm] Lablanche JM, et al. **Arch Mal Coeur** 1990 Feb; 83(2):199–203 (Eng. Abstr.) **(Fre)**

[Coronary spasm and its current status] Oprian O, et al. **Rev Med Interna [Med Interna]** 1989 Mar–Apr;41(2):125–33 **(Rum)**

DRUG THERAPY

Efficacy and safety of amlodipine in vasospastic angina: an interim report of a multicenter, placebo–controlled trial. The Investigators of Study 160. Chahine RA, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1128–30

Circulatory collapse following coronary bypass surgery: multivessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine. Gurley JC, et al. **Am Heart J** 1990 May;119(5):1194–5

Nitroglycerin–resistant coronary spasm treated with intracoronary linsidomine chlorhydrate (SIN–1). Drobinski G, et al. **Eur Heart J** 1990 May;11(5):472–5

Coronary artery spasm following coronary artery bypass grafting. Treatment with intracoronary ISDN followed by systemic intravenous nifedipine infusion. Zaiac M, et al. **Eur J Cardiothorac Surg** 1990;4(2):109–11

Diltiazem in perioperative coronary spasm [letter] Ghosh PK. **J Thorac Cardiovasc Surg** 1989 Dec;98(6):1148

Coronary artery spasm complicating PTCA: role of intracoronary nitroglycerin. Margolis JR, et al. **Z Kardiol** 1989;78 Suppl 2:41–4; discussion 64–7

EPIDEMIOLOGY

[Intraoperative coronary artery spasm—retrospective review of 10 cases] Yamanoue T, et al. **Masui** 1990 Mar; 39(3):376–82 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Hyperventilation–induced coronary vasospasm refractory to intracoronary nitroglycerin. Ghio S, et al. **Am Heart J** 1990 Apr;119(4):957–60

Circulatory collapse following coronary bypass surgery: multivessel and graft spasm reversed in the catheterization laboratory by intracoronary papaverine. Gurley JC, et al. **Am Heart J** 1990 May;119(5):1194–5

Coronary artery spasm after cardiac transplantation. Kushwaha S, et al. **Am J Cardiol** 1990 Jun 15;65(22):1515–8

Coronary artery vasospasm following placement of a cold liver graft during orthotopic liver transplantation [letter] Ramsay MA, et al. **Anesth Analg** 1989 Dec;69(6):854–5

Coronary artery spasm after percutaneous transluminal coronary angioplasty: pathophysiology and clinical consequences. Fischell TA. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):1–3 (22 ref.)

Coronary artery spasm during cardiac angiography. Satoh A, et al. **Clin Cardiol** 1990 Jan;13(1):55–8

Coronary artery spasm during mitral valve replacement. Shafei H, et al. **Eur J Cardiothorac Surg** 1990;4(7):398–400

Spontaneous coronary artery spasm in variant angina is caused by a local hyperreactivity to a generalized constrictor stimulus. Kaski JC, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1456–63

DC cardioversion and coronary artery spasm [see comments] Siwach SB, et al. **J Assoc Physicians India** 1989 Aug; 37(8):545 Comment in: J Assoc Physicians India 1989 Dec;37(12):803.

Transient ST segment elevation following DC cardioversion—merely an 'observation' today [letter; comment] Turakhia DP. **J Assoc Physicians India** 1989 Dec;37(12):803 Comment on: J Assoc Physicians India 1989 Aug;37(8):545.

Relationship between the coronary diameter and occurrence of vasospastic angina in patients with normal coronary arteries. Kurimoto T, et al. **Jpn Circ J** 1989 Jul;53(7):747–55

[Relaxing factors of endothelial origin and coronary spasm] Vanhoutte PM, et al. **Arch Mal Coeur** 1990 Mar;83 Spec No 2:11–21 (94 ref.) (Eng. Abstr.) **(Fre)**

[Alcohol–induced coronary spastic angina associated with myocardial bridge: a case report] Nishitani K, et al. **J Cardiol Suppl** 1989;22:90–3 **(Jpn)**

[Coronary artery spasm under thoracic epidural anesthesia] Tamura T, et al. **Masui** 1989 Oct;38(10):1369–77 (Eng. Abstr.) **(Jpn)**

[Coronary spasm during laryngoplasty] Tatara T, et al. **Masui** 1990 Jan;39(1):99–105 (Eng. Abstr.) **(Jpn)**

[The role of peripheral cholinergic and adrenergic receptor systems in the action of histamine on the isolated coronary arteries] Karachentsev AN, et al. **Fiziol Zh** 1989 Nov–Dec; 35(6):92–5 (Eng. Abstr.) **(Rus)**

[Study of the role of the endothelium in the development of coronary vessel reactions of different etiologies] Sagach VF, et al. **Kardiologiia** 1990 Jan;30(1):62–5 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Perivascular nerve lesion of the coronary artery involved in spasm in a patient with variant angina. Jougasaki M, et al. **Pathology** 1989 Oct;21(4):304–7

PHYSIOPATHOLOGY

Effects of the kallikrein–kinin system on phasic coronary vasospasm in dogs. Ohde H, et al. **Adv Exp Med Biol** 1989; 247B:617–22

Vasoconstrictor effect of endothelin on the canine coronary artery: is a novel endogenous peptide involved in regulating myocardial blood flow and coronary spasm? Igarashi Y, et al. **Am Heart J** 1989 Oct;118(4):674–8

Cases in electrocardiography. Zimmers T. **Am J Emerg Med** 1989 Nov;7(6):612–5

Measurements from light and polarised light microscopy of human coronary arteries fixed at distending pressure. Canham PB, et al. **Cardiovasc Res** 1989 Nov;23(11):973–82

Animal model of coronary artery spasm–coronary thrombosis–acute myocardial infarction. A study on hemodynamics, EKG, coronary angiography, biochemistry

and pathology. Jiang YQ, et al. **Chin Med J [Engl]** 1990 Mar;103(3):233–44

Coronary artery spasm and vasoconstriction. The case for a distinction. Maseri A, et al. **Circulation** 1990 Jun; 81(6):1983–91 (75 ref.)

Endothelium-derived relaxing factor (EDRF): a defence mechanism against platelet aggregation and vasospasm in human coronary arteries. Förstermann U, et al. **Eur Heart J** 1989 Nov;10 Suppl F:36–43

[Principal mechanisms involved in coronary spasm] Ribeiro Jorge PA. **Arq Bras Cardiol** 1989 Dec;53(6):343–6 (25 ref.) **(Por)**

PREVENTION & CONTROL

Possibilities of pharmacological prevention of thrombin-induced coronary vasospasm. Kovács A, et al. **Acta Physiol Hung** 1990;75 Suppl:177–8

[Effects of cardioplegic solution and calcium entry blockers on coronary artery contraction] Yoshida K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jan;38(1):86–92 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Microvascular angina and panic disorder. Roy-Byrne PP, et al. **Int J Psychiatry Med** 1989;19(4):315–25

RADIOGRAPHY

The incidence of myocardial bridges in heart transplants. Wymore P, et al. **Cardiovasc Intervent Radiol** 1989 Jul–Aug;12(4):202–6

Coronary spasm masquerading as progressive exertional angina with normal coronaries. Houghton JL, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):172–4

Repetitive myocardial infarction in a young woman with vasospastic coronary artery disease [letter] Coma-Canella I. **Eur Heart J** 1990 Jun;11(6):577

Assessment of the vasomotility of epicardial coronary arteries with quantitative coronary angiography. Jost S, et al. **Z Kardiol** 1989;78 Suppl 6:143–8 (29 ref.)

[Coronary angiography in patients with U wave inversion during coronary artery spasm] Masuda T, et al. **J Cardiol** 1989 Sep;19(3):757–64 (Eng. Abstr.) **(Jpn)**

[Clinical significance of coronary vasospasm determined by coronary angiography] Ino T, et al. **J Cardiol Suppl** 1989; 22:87–9 **(Jpn)**

THERAPY

[The endothelium and antithrombotic substances] Eber B. **Acta Med Austriaca** 1989;16(5):102–4 (29 ref.) (Eng. Abstr.) **(Ger)**

CORONARY VESSEL ANOMALIES

Bilateral origin of the left anterior descending coronary artery in a young man. Nudel DB, et al. **Pediatr Cardiol** 1989 Summer;10(3):163–5

[Anomalous origin of the left anterior descending coronary artery from the pulmonary artery associated with other anomalies: a case report] Tsuchiya K, et al. **J Cardiol** 1989 Mar;19(1):333–40 (Eng. Abstr.) **(Jpn)**

[Long-term clinical course in the anomalous origin of coronary arteries] Kerný J, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1361–6 (Eng. Abstr.) **(Slo)**

CLASSIFICATION

The classification of coronary artery fistulas. Schechter DC. **Am Heart J** 1968 Feb;75(2):281–2

Retroaortic epicardial course of the left circumflex coronary artery and anteroaortic intramyocardial (ventricular septum) course of the left anterior descending coronary artery: an unusual coronary anomaly and a proposed classification based on the number of coronary ostia in the aorta. Dollar AL, et al. **Am J Cardiol** 1989 Oct 1; 64(12):828–9

COMPLICATIONS

Vascular abnormalities in congenital cutis laxa—report of two cases. Tsuji A, et al. **Acta Paediatr Jpn Overseas Ed** 1990 Apr;32(2):155–61

Anomalous aortic origin of the left anterior descending coronary artery with dilated cardiomyopathy. Okura T, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):45–8

Partially unroofed coronary sinus associated with tricuspid atresia. An important associated lesion in the Fontan operation. Matsuwaka R, et al. **Eur J Cardiothorac Surg** 1987;1(3):180–2

Asymptomatic left and right coronary artery–left ventricular fistula in an elderly patient with a diastolic murmur only. Yokawa S, et al. **Int J Cardiol** 1989 Nov;25(2):244–6

Compression of an anomalous left circumflex coronary artery by a bioprosthetic valve ring. de Marchena EJ, et al. **J Cardiovasc Surg (Torino)** 1990 Jan–Feb;31(1):52–4

Unroofed coronary sinus associated with atrial septal defect and significant mitral regurgitation [letter] Konstantinides S, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):377–8

Wolff-Parkinson-White syndrome associated with a coronary sinus diverticulum: ablative surgical approach. McGiffin DC, et al. **PACE** 1990 Aug;13(8):966–9

A case of Bland-White-Garland syndrome with myocardial infarction on the first day after birth [letter] Hayashi Y, et al. **Pediatr Cardiol** 1990 Jul;11(3):175–6

[Ischemic reaction in a young woman without coronary sclerosis: Bland-White-Garland syndrome] Cieslinski G, et al. **Dtsch Med Wochenschr** 1989 Dec 1;114(50):1960–3 (Eng. Abstr.) **(Ger)**

[A case of bilateral coronary artery—pulmonary artery fistulas associated with mitral valve stenosis] Abe H, et al. **Kokyu To Junkan** 1990 Jan;38(1):87–91 (Eng. Abstr.) **(Jpn)**

[A case of coronary artery fistula with angina pectoris] Higuchi H, et al. **Kokyu To Junkan** 1989 Oct; 37(10):1139–41 (Eng. Abstr.) **(Jpn)**

[A case of bilateral coronary artery to pulmonary artery fistulas associated with hepatic arteriovenous fistula] Kita Y, et al. **Kokyu To Junkan** 1989 Dec;37(12):1353–7 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of tetralogy of Fallot associated with an anomalous coronary vessel] Furlanetto G, et al. **Arq Bras Cardiol** 1989 Jan;52(1):23–9 (Eng. Abstr.) **(Por)**

[Characteristics of the radical correction of Fallot's tetralogy in anomalous distribution of the coronary arteries] Podzolkov VP, et al. **Grudn Khir** 1989 Jul–Aug;(4):5–13 (Eng. Abstr.) **(Rus)**

[Anomalous origin of the left coronary artery from the right sinus of Valsalva with retro-aortic path] Barrios Alonso V, et al. **Rev Esp Cardiol** 1990 May;43(5):341–4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Congenital aneurysm of the right coronary artery with fistulous connection to the right atrium. Ludomirsky A, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):672–5

Echocardiographic identification of anomalous origin of the left circumflex coronary artery from the right sinus of Valsalva. Piovesana P, et al. **Am Heart J** 1990 Jan; 119(1):205–7

Cardiac arrest and resuscitation in a child with undetected anomalous left coronary artery. Sheinbaum RJ. **Anesthesiology** 1990 Jun;72(6):1091–3

Congenital fistula between the left ventricle and coronary sinus: elucidation by colour Doppler flow mapping. Gnanapragasam JP, et al. **Br Heart J** 1989 Nov;62(5):406–8

Anomalous origin of the left coronary artery from the pulmonary trunk: elucidation with colour Doppler flow mapping. Houston AB, et al. **Br Heart J** 1990 Jan; 63(1):50–4

A perspective on color-coded Doppler echocardiography: utility or just another pretty picture? [editorial] Goldberg SJ. **J Am Coll Cardiol** 1989 Oct;14(4):977–8

Detection of coronary artery abnormalities in tetralogy of Fallot by two-dimensional echocardiography. Jureidini SB, et al. **J Am Coll Cardiol** 1989 Oct;14(4):960–7

Diagnosis of coronary artery fistula by two-dimensional echocardiography, pulsed Doppler ultrasound and color flow imaging. Velvis H, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):968–76

Precise evaluation of a complex coronary arteriovenous fistula: the utility of transesophageal color Doppler. Calafiore PA, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct; 2(5):337–41

Coronary artery abnormalities in children. Caldwell RL, et al. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):259–68 (26 ref.)

Doppler color flow imaging in detection and mapping of left coronary artery fistula to right ventricle and atrium. Trask JL, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr; 3(2):131–4

Two-dimensional and Doppler echocardiographic features of coronary arteriovenous fistula. Report of three cases. Fang BR, et al. **J Ultrasound Med** 1990 Jan;9(1):39–43

A case of a right coronary artery to left ventricle fistula observed over twenty years. Shizukuda Y, et al. **Jpn J Med** 1989 Jul–Aug;28(4):510–4

[Congenital coronary arteriovenous fistula: analysis of five cases] Wong HI, et al. **Acta Paediatr Sin** 1989 Mar–Apr; 30(2):134–9 (Eng. Abstr.) **(Chi)**

[Left coronary artery fistula in a neonate] Kokštein Z, et al. **Cesk Pediatr** 1989 Sep;44(9):557–8 **(Cze)**

[Contribution of two-dimensional echocardiography to the diagnosis of abnormalities of the left coronary artery originating in the trunk of the pulmonary artery] Allal J, et al. **Ann Cardiol Angeiol (Paris)** 1989 Nov;38(9):535–8 (17 ref.) (Eng. Abstr.) **(Fre)**

[Right coronary fistula to the right atrium. Diagnosis using Doppler echocardiography with color coding] Castela EM, et al. **Rev Port Cardiol** 1989 Sep;8(9):615–7 (Eng. Abstr.) **(Por)**

[A case of accurate diagnosis and successful correction of a rare anomaly of the coronary sinus] Litasova EE, et al. **Grudn Khir** 1989 Sep–Oct;(5):88–90 **(Rus)**

[A case of intravital detection of myocardial ponticuli in a patient with arterial hypertension] Manoshkina EM, et al. **Klin Med (Mosk)** 1989 Nov;67(11):121–3 **(Rus)**

[Multiple aneurysms of the left auricula, ascending aorta and sinuses of Valsalva with interventricular communication, fibromuscular subaortic stenosis and a single coronary artery] Cabrera A, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):189–91 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Myocardial bridge (MB): an angiographic curiosity? Somanath HS, et al. **Indian Heart J** 1989 Sep–Oct; 41(5):296–300

ETIOLOGY

Congenital coronary artery anomalies in Noonan's syndrome. Wong CK, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):396–400

PATHOLOGY

Anomalous course and branches of human coronary arteries. Kumar K. **Acta Anat (Basel)** 1989;136(4):315–8

Single coronary artery with transeptal anterior interventricular artery: a rare anatomical feature. Reig J, et al. **Acta Morphol Neerl Scand** 1988–89;26(4):239–48

The anomalous origin of the circumflex artery (ramus circumflexus) in the right aortic sinus: a case study. Sañudo-Tejero JR, et al. **Anat Anz** 1989;169(4):295–9

Coronary arterial and sinusal anatomy in hearts with a common arterial trunk. Suzuki A, et al. **Ann Thorac Surg** 1989 Dec;48(6):792–7

Left-sided inferior vena cava draining into the coronary sinus via persistent left superior vena cava: case report and review of the literature. Brickner ME, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):189–92 (17 ref.)

Single coronary artery associated with annuloaortic ectasia and ventricular septal defect. Kallikazaros JE, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):42–4

Aberrant course of the anterior interventricular part of the great cardiac vein in the human heart. von Lüdinghausen M. **Gegenbaurs Morphol Jahrb** 1989;135(3):475–8

Unusual "high take off" of the right coronary artery from the ascending aorta. Thakur R, et al. **Int J Cardiol** 1990 Mar;26(3):369–71

Congenital aneurysm of the left coronary sinus and left main coronary artery with fistulous communication to the right atrium in pregnancy. Goldberg N, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):125–30

Pete Maravich's incredible heart. Choi JH, et al. **J Forensic Sci** 1990 Jul;35(4):981–6

Anomalous origin of the left circumflex coronary artery and mitral valve replacement: a surgical trap [letter] Vicente WV, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):173–4

Anomalous origin of the left main coronary artery from the noncoronary sinus of Valsalva [letter] Ishikawa T, et al. **Pediatr Cardiol** 1990 Jul;11(3):173–4

Truncus solitarius pulmonalis. Sennari E, et al. **Pediatr Cardiol** 1990 Jan;11(1):50–3 (13 ref.)

[Congenital anomalies of the coronary vessels (review)] Steiner I. **Cesk Patol** 1989 Nov;25(4):226–9 **(Cze)**

PHYSIOPATHOLOGY

Clinical and hemodynamic course of infants and children with anomalous left coronary artery. Hurwitz RA, et al. **Am Heart J** 1989 Dec;118(6):1176–81

Coronary–pulmonary fistula: long-term follow-up in operated and non-operated patients. Said SA, et al. **Int J Cardiol** 1990 May;27(2):203–10

[Tachyarrhythmia absoluta as the first manifestation of a Bland-White-Garland syndrome (letter)] Braun E, et al. **Dtsch Med Wochenschr** 1990 Jun 8;115(23):915–6 **(Ger)**

[Coronary hemodynamics in a patient developing chest pain in the middle age in congenital coronary–pulmonary fistula] Mikuniya A, et al. **Kokyu To Junkan** 1989 Sep; 37(9):1015–20 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Coronary angiography of pulmonary atresia, hypoplastic right ventricle, and ventriculocoronary communications. Burrows PE, et al. **AJR Am J Roentgenol** 1990 Apr; 154(4):789–95

Unusual origin of the S-shaped (posterior) sinus node artery. Habbab MA, et al. **Am Heart J** 1989 Dec;118(6):1344–6

Coronary artery–to–left ventricle communication with abnormal regional coronary flow demonstrated by ultrafast computed tomography. Marshall J, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):677–9

Rapid identification of the course of anomalous coronary arteries in adults: the "dot and eye" method. Serota H, et al. **Am J Cardiol** 1990 Apr 1;65(13):891–8

Anomalous origin of the right coronary artery from the ascending aorta: case history. Goldstein PR, et al. **Angiology** 1990 Feb;41(2):164–6

Anomalous origin of the posterior descending artery from the obtuse marginal. Ilia R, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):200–1

Anomalous origin of the right coronary artery from the ascending aorta. Rovani X, et al. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):136–8

Myocardial bridging of the coronary arteries [letter; comment] Partridge J. **Clin Radiol** 1990 Mar;41(3):217 Comment on: Clin Radiol 1989 Jul;40(4):355–9.

Associated coronary and cardiac anomalies in the tetralogy of Fallot. An angiographic study. Dabizzi RP, et al. **Eur Heart J** 1990 Aug;11(8):692–704

Ectopic right coronary artery to pulmonary artery fistula masquerading as patent arterial duct. Molajo AO, et al. **Int J Cardiol** 1990 Feb;26(2):229–31

Anomalous coronary arteries [letter; comment] Hobbs RE. **J Am Coll Cardiol** 1990 Feb;15(2):507–8 Comment on: J

Am Coll Cardiol 1989 Mar 1;13(3):531–7.
Bilateral coronary arteriovenous fistulas. Joy J, et al. **Pediatr Cardiol** 1990 Apr;11(2):111–2
Congenital anomalies of the coronary arteries. Classification and significance. Greenberg MA, et al. **Radiol Clin North Am** 1989 Nov;27(6):1127–46 (56 ref.)
[Anomalous myocardial vascularization. Case report] Cerbák R, et al. **Cesk Radiol** 1990 May;44(3):167–70 (Eng. Abstr.) (Cse)
[Fistula formation between the coronary arteries and the pulmonary artery (letter)] Schanzenbächer P. **Dtsch Med Wochenschr** 1990 Jan 19;115(3):117–8 (Ger)
[Clinical evaluation of coronary artery fistula and coronary artery–cardiac chamber shunt] Higuchi H, et al. **Kokyu To Junkan** 1990 Feb;38(2):159–63 (Eng. Abstr.) (Jpn)
[A case of anomalous origin of the right coronary artery from the left coronary sinus of Valsalva] Hirai J, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1470–4 (Jpn)
[Intercoronary communication without coronary artery disease: report of a case] Iwasaki K, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):1000–1 (10 ref.) (Jpn)
[Angiographic signs and pathophysiology of abnormal origin of the left coronary artery from the pulmonary trunk] Petrosian IuS, et al. **Grud Serdechnesosudistaia Khir** 1990; (3):8–14 (Eng. Abstr.) (Rus)
[Angiographic semeiotics and pathophysiology of congenital fistulas of the coronary arteries] Petrosian IuS, et al. **Grudn Khir** 1989 Nov–Dec;(6):23–31 (Eng. Abstr.) (Rus)
[Inadvertently detected coronary shunts] Kerný J, et al. **Vnitr Lek** 1990 May;36(5):435–45 (Eng. Abstr.) (Slo)
[The single coronary artery. Presentation of a case] Gumá JR, et al. **Rev Esp Cardiol** 1990 Mar;43(3):201–2 (Eng. Abstr.) (Spa)

RADIONUCLIDE IMAGING

Coronary to bronchial artery anastomosis with bronchial steal syndrome demonstrated by thallium-201 myocardial tomoscintigraphy. Stefas L, et al. **Eur Heart J** 1990 Mar; 11(3):275–9
[Tl-201 perfusion scintigraphy of the myocardium in patients with anomalous origin of the left coronary artery from the pulmonary trunk (clinico–anatomical comparisons)] Malov GA, et al. **Kardiologiia** 1989 Dec;29(12):68–73 (Eng. Abstr.) (Rus)

SURGERY

Saphenous vein graft angioplasty in a teenager. Kahn JK, et al. **Am J Cardiol** 1990 Jan 15;65(3):259–60
Anomalous left coronary artery surgery [letter] Alexi-Meskhishvili V. **Ann Thorac Surg** 1990 Sep; 50(3):511–2
Evolution of the management of anomalous left coronary artery: a new surgical approach. Vigneswaran WT, et al. **Ann Thorac Surg** 1989 Oct;48(4):560–4
Recurrent ventricular tachycardia associated with anomalous left coronary artery from the pulmonary artery in a child managed by revascularisation and map-guided endocardial resection. McComb JM, et al. **Br Heart J** 1989 Nov; 62(5):396–9
Surgical treatment of congenital coronary artery fistula. Report of two cases. Li SX, et al. **Chin Med J [Engl]** 1989 Nov;102(11):831–3
Exercise performance after repair of anomalous origin of the left coronary artery from the pulmonary artery. Paridon SM, et al. **Circulation** 1990 Apr;81(4):1287–92
Myocardial perfusion after aortic implantation for anomalous origin of the left coronary artery from the pulmonary artery. Seguchi M, et al. **Eur Heart J** 1990 Mar;11(3):213–8
Isolated atresia of the left main coronary artery in an adult. Beretta L, et al. **Eur J Cardiothorac Surg** 1990;4(3):169–70
Thallium imaging after ligation of an anomalous left coronary artery from the pulmonary artery. Furniss SS, et al. **Eur J Nucl Med** 1990;16(8–10):741–3
Postoperative evaluation after end-to-end subclavian-left coronary artery anastomosis in anomalous left coronary artery. Montigny M, et al. **J Thorac Cardiovasc Surg** 1990 Aug;100(2):270–3
Congenital coronary artery fistulas. Diagnostic and surgical considerations. Karagoz HY, et al. **Jpn Heart J** 1989 Sep; 30(5):685–94
Surgical management of congenital coronary artery fistula. Chu JJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Oct; 88(10):1046–52
New surgical repair for an anomalous origin of the left coronary artery adjacent to the pulmonary cusps with numerous large side branches. Sarai K, et al. **Thorac Cardiovasc Surg** 1990 Jun;38(3):161–4
[A case report of A-C bypass surgery in coronary atherosclerosis with anomalous origin of left coronary artery] Satokawa H, et al. **Kokyu To Junkan** 1990 Mar; 38(3):283–7 (14 ref.) (Eng. Abstr.) (Jpn)
[A case of congenital absence of the right coronary aortic cusp] Kitamura M, et al. **Kyobu Geka** 1989 Nov; 42(12):1017–20 (Eng. Abstr.) (Jpn)
[Hamilton's operation in Bland-White-Garland syndrome] Tanaka O, et al. **Kyobu Geka** 1990 Jan;43(1):69–72 (Eng. Abstr.) (Jpn)
[Raghib's syndrome associated with cor triatriatum—a rare surgical case report] Fujimura Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov; 37(11):2417–21 (Eng. Abstr.) (Jpn)
[Congenital coronary artery fistula draining into the superior vena cava with giant saccular aneurysm—report of a case] Tada Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov;37(11):2378–81 (Eng. Abstr.) (Jpn)

THERAPY

Embolisation of a complex coronary arteriovenous fistula in a 6 year old child: the need for specialised embolisation techniques. Reidy JF, et al. **Br Heart J** 1990 Apr; 63(4):246–8
Treatment of coronary artery stenosis and coronary arteriovenous fistula by interventional cardiology techniques. Nguyen K, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):240–3
Origin of left coronary artery from right pulmonary artery co-existing with coarctation of the aorta. Levin SE, et al. **Int J Cardiol** 1990 Apr;27(1):31–6

VETERINARY

Pulmonic stenosis caused by single coronary artery in dogs: four cases (1965–1984). Buchanan JW. **J Am Vet Med Assoc** 1990 Jan 1;196(1):115–20

CORONARY VESSELS

Chronic Epstein-Barr virus infections associated with coronary aneurysms. Kobayashi I, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Aug;31(4):509–12
The spectrum of symptomatic coronary air embolism during balloon angioplasty: causes, consequences, and management. Kahn JK, et al. **Am Heart J** 1990 Jun; 119(6):1374–7
Emergency PTCA for coronary artery occlusion after blunt chest trauma. Sigmund M, et al. **Am Heart J** 1990 Jun; 119(6):1408–10
Intramural coronary angiitis of periarteritis nodosa proved by endomyocardial biopsy. Sugihara N, et al. **Am Heart J** 1990 Jun;119(6):1414–6
Successful percutaneous removal of retained probe balloon wire during coronary angioplasty. Yeon EB, et al. **Am Heart J** 1990 May;119(5):1201–5
Myocardial protection with autoperfusion during prolonged coronary artery occlusion. Zalewski A, et al. **Am Heart J** 1990 Jan;119(1):41–6
Balloon occlusion of an internal mammary artery to anterior interventricular vein fistula. Miranda AA, et al. **Am J Cardiol** 1990 Jan 15;65(3):257–8
Balloon entrapment in a coronary artery: potential serious complications of balloon rupture. Colombo A, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):23–5
Retrieval of a fractured USCI probe tip from a diseased coronary artery using another fixed-wire balloon catheter, the Cordis Orion. Feldman RL, et al. **Cathet Cardiovasc Diagn** 1990 Apr;19(4):257–63
Removal of retained intracoronary percutaneous transluminal coronary angioplasty equipment by a percutaneous twin guidewire method. Gurley JC, et al. **Cathet Cardiovasc Diagn** 1990 Apr;19(4):251–6
Iatrogenic internal mammary artery to coronary vein fistula. de Marchena E, et al. **Chest** 1990 Jan;97(1):251–2
Transvenous defibrillation in humans via the coronary sinus. Bardy GH, et al. **Circulation** 1990 Apr;81(4):1252–9
Syndrome X. "What's in a name...?" [comment] Cannon RO 3d. **Circulation** 1989 Dec;80(6):1909–11 Comment on: Circulation 1989 Dec;80(6):1610–6.
Adjuvant therapy for intracoronary stents. Investigations in atherosclerotic swine. Rodgers GP, et al. **Circulation** 1990 Aug;82(2):560–9
Diagnosis of coronary artery disease by controlled coronary vasodilation with adenosine and thallium-201 scintigraphy in patients unable to exercise [see comments] Verani MS, et al. **Circulation** 1990 Jul;82(1):80–7 Comment in: Circulation 1990 Jul;82(1):308–9.
Anatomy, histology, and pathology of the major epicardial coronary arteries relevant to echocardiographic imaging techniques. Waller BF. **J Am Soc Echocardiogr** 1989 Jul-Aug;2(4):232–52 (71 ref.)
Increases in coronary vein CO_2 during cardiac resuscitation. Gudipati CV, et al. **J Appl Physiol** 1990 Apr;68(4):1405–8
Use of body surface maps to identify vessel site of coronary occlusion. Sridharan MR, et al. **J Electrocardiol** 1989;22 Suppl:72–81
Modification of atrioventricular conduction by selective AV nodal artery catheterization. Wang PJ, et al. **PACE** 1990 Jan;13(1):88–102
Angina with normal coronary arteries: a review. Hutchison SJ, et al. **Q J Med** 1989 Aug;72(268):677–88 (60 ref.)
Effects of intermittent potassium cardioplegia (4 C) on reperfusion of myocardial regions supplied by collateral coronary arteries. Chitwood WR Jr, et al. **Surg Forum** 1978; 29:269–71
Coronary arteriovenous fistula with vasospastic angina. Bando S, et al. **Tokushima J Exp Med** 1989 Dec; 36(3-4):59–63
[Percutaneous occlusion by a detachable balloon of a fistula between the left coronary and the pulmonary artery] Francoual M, et al. **Arch Mal Coeur** 1990 Jun;83(7):1003–5 (Eng. Abstr.) (Fre)
[Immediate and late complications secondary to the implantation of a coronary endoprosthesis] Vogt P, et al. **Schweiz Med Wochenschr** 1989 Oct 28;119(43):1521–4 (Eng. Abstr.) (Fre)
[Transfemoral balloon occlusion of the coronary sinus in patients with angina pectoris] Franz N, et al. **Radiol Diagn (Berl)** 1990;31(1):35–41 (Eng. Abstr.) (Ger)
[Isolated spontaneous coronary dissection] Gschwend J, et al. **Schweiz Med Wochenschr** 1989 Dec 23;119(51):1875–8 (21 ref.) (Eng. Abstr.) (Ger)
[Angioscopy of the coronary vessels] Wendt T, et al. **Versicherungsmedizin** 1990 Jun 1;42(3):83–8 (35 ref.) (Eng. Abstr.) (Ger)
[Electrocardiograms during acute occlusion of the left circumflex artery as compared with that of the right coronary artery] Morimoto S, et al. **J Cardiol** 1989 Mar; 19(1):47–55 (Eng. Abstr.) (Jpn)
[Thallium-201 myocardial perfusion imaging during transient coronary occlusion at the time of PTCA: comparison with stress imaging] Nakagawa T, et al. **J Cardiol** 1989 Mar; 19(1):27–36 (Eng. Abstr.) (Jpn)
[Efficacy of percutaneous transluminal coronary angioscopy] Mizuno K. **Nippon Ika Daigaku Zasshi** 1990 Feb;57(1):73–6 (Jpn)
[Congenital fistula of the coronary arteries] Rachocka J, et al. **Pediatr Pol** 1988 Dec;63(12):811–4 (36 ref.) (Pol)
[A case of inherited coronary arteriovenous fistula] Rachocka J, et al. **Pediatr Pol** 1989 Jan;64(1):60–3 (Pol)
[Fracture and intracoronary retention of a guidewire catheter in percutaneous transluminal angioplasty. A case report] Dias AR, et al. **Arq Bras Cardiol** 1989 Sep;53(3):165–6 (Eng. Abstr.) (Por)
[Angiotensin converting enzyme activity in atrial and cubital venous blood] Akhaladze VM, et al. **Lab Delo** 1989; (11):19–20 (Eng. Abstr.) (Rus)

ANALYSIS

H1-receptor reserves in guinea-pig left atria, trachea and pig coronary artery as identified by phenoxybenzamine. Rappen-Cremer E, et al. **Agents Actions** 1989 Nov; 28(3-4):218–23
Calcium channel receptor sites for (+)-[3H]PN 200–110 in coronary artery. Yamada S, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):327–32
[Cardiovascular estrogen receptors] Xu H. **Sheng Li Ko Hsueh Chin Chan** 1990 Apr;21(2):139–42 (28 ref.) (Chi)

ANATOMY & HISTOLOGY

Anomalous course and branches of human coronary arteries. Kumar K. **Acta Anat (Basel)** 1989;136(4):315–8
Anatomical studies of the coronary system in elasmobranchs: I. Coronary arteries in lamnoid sharks. De Andrés AV, et al. **Am J Anat** 1990 Mar;187(3):303–10
Postmortem quantification of collateral vessels in the human heart. A new approach. Piek JJ, et al. **Am J Cardiovasc Pathol** 1989;2(4):301–8
Anatomic data of the human coronary sinus. Piffer CR, et al. **Anat Anz** 1990;170(1):21–9
Coronary arteries and athlete's heart. Zeppilli P, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:89–92
Geometry of the conduit coronary artery in diastole is determined by the volume of the left and right ventricles. Gerová M, et al. **Basic Res Cardiol** 1989 Nov-Dec; 84(6):583–90
Arterial supply of the region of the coronary sinus in man. Eliska O, et al. **Cardiology** 1990;77(1):1–8
Measurements from light and polarised light microscopy of human coronary arteries fixed at distending pressure. Canham PB, et al. **Cardiovasc Res** 1989 Nov;23(11):973–82
Long-term follow-up of PTCA of the right coronary artery with shepherd's crook morphology. Tuzcu EM, et al. **Cleve Clin J Med** 1989 Sep;56(6):577–9
Origin and size of the coronary arteries in the north-west Indians. Sahni D, et al. **Indian Heart J** 1989 Jul-Aug; 41(4):221–8
Intraoperative sonographic measurements of the internal mammary artery as a coronary bypass conduit. Likungu J, et al. **Int J Card Imaging** 1989;5(1):33–7
Coronary arteries in physiological hypertrophy: echocardiographic evidence of increased proximal size in elite athletes. Pelliccia A, et al. **Int J Sports Med** 1990 Apr;11(2):120–6
Imaging of the coronary arteries by transesophageal echocardiography. Pearce FB, et al. **J Am Soc Echocardiogr** 1989 Jul-Aug;2(4):276–83
Variation in length and termination of the right coronary artery in man. Baptista CA, et al. **Jpn Heart J** 1989 Nov; 30(6):789–98
Incremental network analogue model of the coronary artery. Wang JZ, et al. **Med Biol Eng Comput** 1989 Jul;27(4):416–22
[Model trials of a method and accuracy in determining vascular diameter in the ultrasound image] Seiche M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:119–20 (Ger)
[Quantitative morphology of the intramural coronary arteries of the trabecula septomarginalis of pigmy goats and swine] Lorenz G, et al. **Z Mikrosk Anat Forsch** 1989;103(6):936–44 (Eng. Abstr.) (Ger)
[Histotopographic and morphometric studies of the intramural coronary arteries in the trabecula septomarginalis of swine and pigmy goats] Lorenz G, et

al. **Zentralbl Allg Pathol** 1990;136(1-2):87-95 (Eng. Abstr.) (Ger)

[Adrenergic coronary vasoconstriction during myocardial hypoperfusion] Jorge PA, et al. **Arq Bras Cardiol** 1989 Apr; 52(4):201-4 (Eng. Abstr.) (Por)

[Adaptive structures of the venous bed of the heart in normal state and in congenital defects] Shormanov SV. **Arkh Anat Gistol Embriol** 1990 Jun;98(6):58-65 (Eng. Abstr.) (Rus)

[Age-related characteristics of intraorganic vascular structures of the cerebral cortex, heart, kidneys and spleen in rats in the normal state and in arterial hypertension] Sokolov VV, et al. **Arkh Anat Gistol Embriol** 1990 Apr; 98(4):47-57 (Eng. Abstr.) (Rus)

[Anatomy of the sinoatrial node and the supply of its vascularization in man] Sokolov VV, et al. **Arkh Anat Gistol Embriol** 1990 Jun;98(6):5-12 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Adverse effects of cocaine on cardiovascular dynamics, myocardial blood flow, and coronary artery diameter in an experimental model. Hale SL, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):927-33

Vasoconstrictor effect of endothelin on the canine coronary artery: is a novel endogenous peptide involved in regulating myocardial blood flow and coronary spasm? Igarashi Y, et al. **Am Heart J** 1989 Oct;118(4):674-8

Inhibition by amlodipine of activity evoked in isolated human coronary arteries by endothelin, prostaglandin F2 alpha and depolarization. Godfraind T, et al. **Am J Cardiol** 1989 Nov 7;64(17):58I-64I

Changes in diameter of coronary narrowings and translesional hemodynamics after intracoronary nitroglycerin. Kimball BP, et al. **Am J Cardiol** 1990 Sep 15;66(7):705-9

Heparin and infarct coronary artery patency after streptokinase in acute myocardial infarction. Mahan EF 3d, et al. **Am J Cardiol** 1990 Apr 15;65(15):967-72

An angiographic and histologic study of cocaine-induced chest pain. Majid PA, et al. **Am J Cardiol** 1990 Mar 15; 65(11):812-4

Relaxation of potassium chloride-induced contractions by amlodipine and its interaction with the 1,4-dihydropyridine-binding site in pig coronary artery. Matlib MA. **Am J Cardiol** 1989 Nov 7;64(17):51I-57I

Chemotactic peptide FMLP contracts human coronary arteries via cyclooxygenase products. Bode SM, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H848-53

Opposite effects of substance P on conductance and resistance coronary vessels in conscious dogs. Nakamura Y, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H565-73

Smooth muscles from spastic coronary artery segments show hypercontractility to histamine. Satoh S, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H9-13

Fentanyl is devoid of major effects on coronary vasoreactivity and myocardial metabolism in experimental animals. Blaise GA, et al. **Anesthesiology** 1990 Mar; 72(3):535-41

Comparison of the direct effects of halothane and isoflurane on large and small coronary arteries isolated from dogs. Hatano Y, et al. **Anesthesiology** 1990 Sep;73(3):513-7

Nitrous oxide does not induce myocardial ischemia in patients with ischemic heart disease and poor ventricular function. Mitchell MM, et al. **Anesthesiology** 1989 Oct;71(4):526-34

Potentiation of cocaine-induced coronary vasoconstriction by beta-adrenergic blockade. Lange RA, et al. **Ann Intern Med** 1990 Jun 15;112(12):897-903

Effects of diet and metoprolol on lipid levels in the blood plasma and morphology of the heart and intramural branches of coronary arteries of spontaneously hypertensive male rats. A 9-month study. Sjöblom L, et al. **Ann Nutr Metab** 1989;33(5):284-96

Factors affecting penetration of retrograde coronary venous injections into normal and ischemic canine myocardium: assessment by contrast echocardiography and digital angiography. Punzengruber C, et al. **Basic Res Cardiol** 1990 Jan-Feb;85(1):21-32

Effects of lysophosphatidylcholine and palmitylcarnitine—lipid metabolites produced in ischemia—on porcine coronary and rabbit femoral arteries. Vedernikov YuP, et al. **Basic Res Cardiol** 1989 Jul-Aug; 84(4):371-7

Coronary vasoconstrictor activity of purified and modified human hemoglobin. Macdonald VW, et al. **Biomater Artif Cells Artif Organs** 1990;18(2):263-82

Study on the mechanism of carbon monoxide induced endothelium-independent relaxation in porcine coronary artery and vein. Gräser T, et al. **Biomed Biochim Acta** 1990; 49(4):293-6

Substance P and bradykinin hyperpolarize pig coronary artery endothelial cells in primary culture. Brunet PC, et al. **Blood Vessels** 1989;26(4):228-34

Tetrodotoxin-insensitive relaxation of coronary arterial smooth muscle to electrical stimulation: possible involvement of a dopaminergic mechanism. Feletou M, et al. **Blood Vessels** 1989;26(4):213-27

Differential contractile responses of pressurized porcine coronary resistance-sized and conductance coronary arteries to acetylcholine, histamine and prostaglandin F2 alpha. Nakayama K, et al. **Blood Vessels** 1989;26(4):235-45

Modification of the ischaemic-induced contraction in the sheep circumflex coronary artery by various pharmacological antagonists. Kwan YW, et al. **Br J Pharmacol** 1990 Jul;100(3):407-12

Isoflurane does not inhibit platelet-induced vasoconstriction in the canine coronary arteries. Blaise GA, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S146

Comparison of responses to acetylcholine and serotonin on isolated canine and human coronary arteries. Berkenboom G, et al. **Cardiovasc Res** 1989 Sep;23(9):780-7

Effect of MCI-176, a new calcium channel blocker, on large and small coronary arteries in dogs. Ishibashi T, et al. **Cardiovasc Res** 1989 Apr;23(4):295-302

Cumene hydroperoxide, an agent inducing lipid peroxidation, and 4-hydroxy-2,3-nonenal, a peroxidation product, cause coronary vasodilatation in perfused rat hearts by a cyclic nucleotide independent mechanism. van der Kraaij AM, et al. **Cardiovasc Res** 1990 Feb;24(2):144-50

Ventricular arrhythmia due to intracoronary papaverine: analysis of QT intervals and coronary vasodilatory reserve. Kern MJ, et al. **Cathet Cardiovasc Diagn** 1990 Apr; 19(4):229-36

Coronary artery spasm and myocardial infarction in a patient with normal coronary arteries: temporal relationship to pseudoephedrine ingestion. Wiener I, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):51-3

Effects of endothelin on porcine coronary arterial strips. Gong QY, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov; 10(6):511-5

Attenuation of vasopressin-mediated coronary constriction and myocardial depression in the hypoxic heart. Boyle WA 3d, et al. **Circ Res** 1990 Mar;66(3):710-21

Control of coronary vascular tone by nitric oxide. Kelm M, et al. **Circ Res** 1990 Jun;66(6):1561-75

Role of endothelium-derived relaxing factor and prostaglandins in responses of coronary arteries to thromboxane in vivo. Szwajkun K, et al. **Circ Res** 1990 Jun;66(6):1729-37

Intracoronary adenosine administered after reperfusion limits vascular injury after prolonged ischemia in the canine model. Babbitt DG, et al. **Circulation** 1989 Nov; 80(5):1388-99

Effects of calcium entry blockade on myocardial blood flow. Bache RJ. **Circulation** 1989 Dec;80(6 Suppl):IV40-6 (48 ref.)

Effects of atrial natriuretic peptide on the coronary arterial vasculature in humans [published erratum appears in Circulation 1990 Mar;81(3):1160] Chu A, et al. **Circulation** 1989 Dec;80(6):1627-35

The effects of adenosine on chest pain and coronary dilation [letter] Sylvén C, et al. **Circulation** 1990 Aug;82(2):662-3

Coronary vasomotor response to acetylcholine relates to risk factors for coronary artery disease [see comments] Vita JA, et al. **Circulation** 1990 Feb;81(2):491-7 Comment in: Circulation 1990 Feb;81(2):697-9.

Estrogen modulates responses of atherosclerotic coronary arteries. Williams JK, et al. **Circulation** 1990 May; 81(5):1680-7

Effects of insulin on vasoconstriction induced by thromboxane A2 in porcine coronary artery. Yanagisawa-Miwa A, et al. **Circulation** 1990 May; 81(5):1654-9

Responses of angiographically normal human coronary arteries to intracoronary injection of acetylcholine by age and segment. Possible role of early coronary atherosclerosis [see comments] Yasue H, et al. **Circulation** 1990 Feb; 81(2):482-90 Comment in: Circulation 1990 Feb;81(2):697-9.

Relationship between systemic and coronary vascular responses to digoxin and concurrent drug therapy with verapamil/beta-adrenoceptor antagonists in humans. Powell AC, et al. **Clin Exp Pharmacol Physiol** 1990 Jun; 17(6):453-62

Alterations of beta-adrenoceptor mediated relaxations of atherosclerotic human coronary arteries. Berkenboom G, et al. **Eur Heart J** 1989 Nov;10 Suppl F:92-6

Coronary vasodilation induced by intracoronary enalaprilat: an argument for the role of a local renin-angiotensin system in patients with dilated cardiomyopathy. Foult JM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:97-100

Dilatation of epicardial coronary arteries and attenuation of provoked coronary vasoconstriction by nisoldipine. Gansser RE, et al. **Eur Heart J** 1989 Nov;10 Suppl F:119-26

Diltiazem alone and combined with nitroglycerin: effect on normal and diseased human coronary arteries. Hess OM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:142-6

Effect of intracoronary and intravenous propranolol on human coronary arteries. Hess OM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:153-8

Nitrate action on epicardial coronary arteries and tolerance: new aspects based on longterm glyceryl trinitrate infusions in dogs. Holtz J, et al. **Eur Heart J** 1989 Nov;10 Suppl F:127-33 (31 ref.)

Drug plasma levels and coronary vasodilation after isosorbide dinitrate chewing capsules. Jost S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:137-41

Coronary vasodilation with dihydropyridines—a pharmacokinetic study. Jost S, et al. **Eur Heart J** 1989 Nov; 10 Suppl F:147-52

Influence of ionic and non-ionic radiographic contrast media on the vasomotor tone of epicardial coronary arteries. Jost S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:60-5

A randomized dose-ranging study of rt-PA in acute myocardial infarction. Effects on coronary patency and fibrinolytic parameters. Koster RW, et al. **Eur Heart J** 1990 Aug;11(8):730-9

Response to histamine of the intact coronary system in an isolated rabbit heart preparation. Rösen R, et al. **Eur Heart J** 1989 Nov;10 Suppl F:164-7

Nisoldipine as a vasodilator in endothelium-deprived large coronary arteries of isolated working rabbit hearts. Saeed M, et al. **Eur Heart J** 1989 Nov;10 Suppl F:159-63

Pharmacologic effects on coronary microvessels during myocardial ischaemia. Tillmanns H, et al. **Eur Heart J** 1990 Apr;11 Suppl B:10-5

Effect of acetylcholine on arterial and venous grafts and coronary arteries in patients with coronary artery disease. Werner GS, et al. **Eur Heart J** 1990 Feb;11(2):127-37

Contrary effects of acetylcholine on coronary arteries and aortocoronary venous grafts in man. Werner GS, et al. **Eur Heart J** 1989 Nov;10 Suppl F:86-91

Mechanisms of nitrate-induced vasodilatation and tolerance. Kukovetz WR, et al. **Eur J Clin Pharmacol** 1990;38 Suppl 1:S9-14

Coronary endothelial dysfunction from ischemia and reperfusion: effect of reactive oxygen metabolite scavengers. Horwitz LD, et al. **Free Radic Biol Med** 1990; 8(4):381-6

Adenosine constricts the isolated and perfused monkey coronary artery. Nakane T, et al. **Heart Vessels** 1990; 5(2):71-5

Response of large and small coronary arteries of pigs to intracoronary injection of acetylcholine: angiographic and histologic analysis. Kawamura A, et al. **Int J Cardiol** 1989 Dec;25(3):289-302

Effect of cocaine on coronary artery dimensions in atherosclerotic coronary artery disease: enhanced vasoconstriction at sites of significant stenoses. Flores ED, et al. **J Am Coll Cardiol** 1990 Jul;16(1):74-9

Indomethacin attenuates the constriction of canine epicardial coronary arteries to acetylcholine in the absence of endothelium: contribution of platelets to vasoconstriction in vivo. Miller WL, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1794-802

Effects of a dietary magnesium deficiency and excess vitamin D3 on swine coronary arteries. Ito M, et al. **J Am Coll Nutr** 1990 Apr;9(2):155-63 (49 ref.)

Coronary vascular reactivity after heart transplantation in dogs: nitroglycerin-induced response. Dumont L, et al. **J Heart Transplant** 1990 May-Jun;9(3 Pt 1):213-8; discussion 219

Fluoride produces endothelium-dependent relaxation and endothelium-independent contraction in coronary artery. Cushing DJ, et al. **J Pharmacol Exp Ther** 1990 Jul; 254(1):28-32

Effects of substance P on rate and perfusion pressure in the isolated guinea pig heart. Hoover DB. **J Pharmacol Exp Ther** 1990 Jan;252(1):179-84

Direct effects of myocardial depressant drugs on coronary vascular tone: anesthetic vasodilation by halothane and isoflurane. Larach DR, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):58-64

Activity of the short-acting thromboxane receptor antagonist, SQ 30,741, in thrombolytic and vasospastic models in monkeys. Schumacher WA, et al. **J Pharmacol Exp Ther** 1990 May;253(2):841-6

Beta adrenoceptor subtype in isolated human, monkey and dog epicardial coronary arteries. Toda N, et al. **J Pharmacol Exp Ther** 1990 May;253(2):518-24

Coronary vascular responsiveness to 5-hydroxytryptamine before and after infusion of hyperkalemic crystalloid cardioplegic solution in the rat heart. Possible evidence of endothelial damage. Saldanha C, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 1):783-7

Effects of propranolol on coronary vasculature and cardiac performance in dogs with fixed and dynamic coronary stenosis. Kashiki M, et al. **Jpn Heart J** 1989 Nov; 30(6):853-61

The dopamine-induced coronary vasoconstrictor response is potentiated by adenosine administration in the dog heart. Kollár A, et al. **Jpn Heart J** 1989 Sep;30(5):709-21

Peptides into the coronary arteries [editorial] [see comments] **Lancet** 1989 Oct 21;2(8669):958-9 Comment in: Lancet 1989 Nov 11;2(8672):1165. Comment in: Lancet 1990 Jan 20;335(8682):168.

Cocaine-induced coronary-artery constriction [letter; comment] **N Engl J Med** 1990 Apr 26;322(17):1235-7 Comment on: N Engl J Med 1989 Dec 7;321(23):1557-62.

Cocaine-induced coronary-artery vasoconstriction [see comments] Lange RA, et al. **N Engl J Med** 1989 Dec 7; 321(23):1557-62 Comment in: N Engl J Med 1989 Dec 7;321(23):1604-6. Comment in: N Engl J Med 1990 Apr 26;322(17):1235-7.

The effect of long-term administration of alpha 1-blocker prazosin on capillary density in cardiac and skeletal muscle. Ziada A, et al. **Pflugers Arch** 1989 Dec;415(3):355-60

Studies of the mechanism of the vasoconstrictor activity of stroma-free hemoglobin in the isolated perfused rat kidney and rabbit heart. Lieberthal W, et al. **Prog Clin Biol Res** 1989;319:407-20; discussion 421-2

BM 13.505, a selective thromboxane receptor antagonist, reduces myocardial infarct size following coronary artery reperfusion. Smith EF 3d, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Oct;

38(1):15–23
The role of the endothelium on calcium-entry blockade in coronary vasospasm. Duprez D.
Verh K Acad Geneeskd Belg 1989;51(4):295–313
Coronary artery spasm complicating PTCA: role of intracoronary nitroglycerin. Margolis JR, et al.
Z Kardiol 1989;78 Suppl 2:41–4; discussion 64–7
Konkurrenz zwischen endothelabhängiger und Nitroglygerin-induzierter koronarer Vasodilatation [Competition between endothelium-dependent and nitroglycerin-induced coronary vasodilation] Rafflenbeul W, et al. **Z Kardiol** 1989;78 Suppl 2:45–7; discussion 64–7
[Maximal dilatation of the coronary bed using dipyridamole in the diagnosis of coronary insufficiency] Černý J, et al. **Vnitr Lek** 1989 Sep;35(9):913–20 (Eng. Abstr.) (Cze)
[Vasodilation and position inotropism in cardiac: insufficiency] **Internist (Berl)** 1990 Apr;31(4 Suppl):1–20 (Ger)
[Selective action of calcium antagonists] Heinzl S. **Med Monatsschr Pharm** 1990 Mar;13(3):66–8 (Ger)
[Effect of intracoronary and intravenous administration of propranolol on coronary vasomotility at rest and during exercise] Bortone A, et al. **Cardiologia** 1989 Aug; 34(8):679–88 (Eng. Abstr.) (Ita)
[Effects of cardioplegic solutions on coronary artery and myocardium—comparison of the glucose-insulin-potassium solution and the St. Thomas' Hospital cardioplegic solution] Watanabe H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct;37(10):2142–9 (Eng. Abstr.) (Jpn)
[Effect of nitroglycerin on the cardiovascular system] Dubiel JP. **Folia Med Cracov** 1989;30(1–2):3–12 (44 ref.) (Eng. Abstr.) (Pol)
[Intravenous streptokinase treatment of acute myocardial infarction. I. Effect of the treatment on the course of infarction and the patency of the artery supplying the infarction area] Aleksandrow W, et al. **Kardiol Pol** 1989; 32(4):194–201 (Eng. Abstr.) (Pol)
[The effect of the synthetic antioxidant emoxypine on the tonus of the coronary vessels] Pashin EN, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):17–9 (Eng. Abstr.) (Rus)
[Prevention of stress-induced changes in coronary autoregulation of vasodilative reserve of the coronary vessels and contractile function of the isolated heart with small doses of thyroid hormones] Bozhko AP, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):30–5 (Eng. Abstr.) (Rus)
[The effect of histamine on the tonus of isolated coronary arteries with intact and damaged endothelium] Karachentsev AN, et al. **Fiziol Zh SSSR** 1989 Jun; 75(6):798–803 (Eng. Abstr.) (Rus)
[Mechanisms of the development of hemorrhagic myocardial infarction and the criteria of angiographic diagnosis] Galankina IE, et al. **Kardiologiia** 1990 Mar;30(3):20–3 (Eng. Abstr.) (Rus)
[Effect of the intravenous administration of finoptin on coronary venous blood flow in patients with ischemic heart disease] Uchalkina LV, et al. **Kardiologiia** 1990 Feb; 30(2):24–9 (Eng. Abstr.) (Rus)
[Changes in the platelet-vascular system of hemostasis in patients with ischemic heart disease and hypertension after the treatment] Zadionchenko VS, et al. **Kardiologiia** 1989 Oct;29(10):51–4 (Eng. Abstr.) (Rus)

EMBRYOLOGY

Scanning electron microscopy substantiates histology in showing the inadequacy of the existing theories on the development of the proximal coronary arteries and their connections with the arterial trunks. Bogers AJ, et al. **Acta Morphol Neerl Scand** 1988–89;26(4):225–37
Origin of the proximal coronary artery stems and a review of ventricular vascularization in the chick embryo. Waldo KL, et al. **Am J Anat** 1990 Jun;188(2):109–20
Development of the origin of the coronary arteries, a matter of ingrowth or outgrowth? Bogers AJ, et al. **Anat Embryol (Berl)** 1989;180(5):437–41

ENZYMOLOGY

Coronary vessels contain enzymes that liberate kinin-like vasodilator substances. Zeitlin IJ, et al. **Eur Heart J** 1989 Nov;10 Suppl F:73–7

GROWTH & DEVELOPMENT

[Determination in the system of the neuromuscular relations of the coronary arteries at stages in human postnatal development] Stovichek IuG. **Arkh Anat Gistol Embriol** 1989 Dec;97(12):37–40 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Class II major histocompatibility antigen expression on coronary arterial endothelium in a patient with Kawasaki disease. Terai M, et al. **Hum Pathol** 1990 Feb;21(2):231–4

INJURIES

Comparison of dissection rates and angiographic results following directional coronary atherectomy and coronary angioplasty. Rowe MH, et al. **Am J Cardiol** 1990 Jul 1; 66(1):49–53
Soft-tipped coronary artery catheters reduce the frequency of coronary artery dissection. Van Tassel P, et al. **Am J Cardiol** 1989 Nov 15;64(18):1199–201
Acute anterior wall myocardial infarction secondary to blunt chest trauma—a case report. Lee DW, et al. **Angiology** 1990 Jan;41(1):82–4
Dissection of the left main coronary artery: diagnosis by angioscopy. Richens D, et al. **Ann Thorac Surg** 1990 Mar; 49(3):469–70
False coronary dissection with the new Monorail angioplasty balloon catheter. Esplugas E, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):30–3
Removal of an occlusive coronary dissection flap by using an atherectomy catheter. Lee TC, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):185–8
Pinhole balloon rupture during coronary angioplasty causing rupture of the coronary artery. LeMay MR, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):91–2
Coronary artery dissection caused by angioplasty balloon rupture [see comments] Rothschild R, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):26–9 Comment in: Cathet Cardiovasc Diagn 1990 Jun;20(2):150–1.
Case of spontaneous healing of occlusive dissection on percutaneous transluminal coronary angioplasty. Takatsu F, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):249–54
Coronary artery dissection after a rugby injury. A case report. Marik PE. **S Afr Med J** 1990 Jun 2;77(11):586–7
Survival after heart and coronary-artery penetration by an air-rifle projectile. Doetsch N, et al. **Thorac Cardiovasc Surg** 1989 Oct;37(5):332–4
[Traumatic infarction of the right ventricle caused by coronary dissection] Merlin G, et al. **Ann Fr Anesth Reanim** 1990;9(1):75–8 (Eng. Abstr.) (Fre)
[Post-traumatic fistula of the left anterior descending coronary artery and left ventricle. Apropos of a new case] Collet F, et al. **Arch Mal Coeur** 1990 Feb;83(2):267–70 (Eng. Abstr.) (Fre)
[Early occlusion and dissection in coronary angioplasty. Apropos of 855 patients] Kosmider M, et al. **Arch Mal Coeur** 1989 Sep;82(9):1505–9 (Eng. Abstr.) (Fre)
[Extensive coronary dissection after percutaneous transluminal angioplasty. Apropos of a case] Pouillart F, et al. **Arch Mal Coeur** 1989 Sep;82(9):1635–8 (10 ref.) (Eng. Abstr.) (Fre)
[Rupture of anterior descending artery during coronary angioplasty: benign course and spontaneous repair. Description of a case] Lisanti P, et al. **G Ital Cardiol** 1990 Mar;20(3):236–8 (Eng. Abstr.) (Ita)
[A case of coronary sinus rupture following retrograde coronary perfusion for myocardial protection] Onitsuka T, et al. **Kyobu Geka** 1990 Jul;43(7):562–4 (Eng. Abstr.) (Jpn)
[Coronary dissection following coronary radiography] Salas J, et al. **Rev Esp Cardiol** 1989 Aug–Sep;42(7):489–92 (Eng. Abstr.) (Spa)

INNERVATION

Sympathetic and nonsympathetic neuropeptide Y-containing nerves in the rat myocardium and coronary arteries. Corr LA, et al. **Circ Res** 1990 Jun;66(6):1602–9
Neurogenic regulation of coronary vasomotor tone. Heusch G, et al. **Eur Heart J** 1989 Nov;10 Suppl F:6–14 (62 ref.)
Coronary arteriolar vasoconstriction in myocardial ischaemia: reflexes, sympathetic nervous system, catecholamines. Longhurst JC. **Eur Heart J** 1990 Apr;11 Suppl B:43–52
Perivascular nerve lesion of the coronary artery involved in spasm in a patient with variant angina. Jougasaki M, et al. **Pathology** 1989 Oct;21(4):304–7
[The role of reflexes from the coronary vessels in the regulation of the circulatory system] Sendur R. **Folia Med Cracov** 1989;30(3–4):147–61 (60 ref.) (Eng. Abstr.) (Pol)
[A glyoxylic acid method of detecting adrenergic neural elements using pontamine sky blue] Shvalev VN, et al. **Arkh Anat Gistol Embriol** 1990 Mar;98(3):85–6 (Rus)
[Coronary chemoreceptors in rabbits] Zhuchkova NI. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):51–4 (Eng. Abstr.) (Rus)
[Effect of the autonomic nervous system on the resistance of heart ventricles to fibrillation] Stoliarchuk AA, et al. **Fiziol Zh** 1990 May–Jun;36(3):73–6 (Eng. Abstr.) (Rus)

METABOLISM

Uric acid and purine compounds in aortic and coronary sinus blood in man. Ronca G, et al. **Adv Exp Med Biol** 1989; 253A:387–91
Defective coronary prostaglandin modulation in anginal patients. Neri Serneri GG, et al. **Am Heart J** 1990 Jul; 120(1):12–21
Beta-adrenergic receptors on canine coronary collateral vessels: characterization and function. Feldman RD, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1634–9
Energetic response of coronary endothelial cells to hypoxia. Mertens S, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H689–94
Transcapillary adenosine transport in isolated guinea pig and rat hearts. Mohrman DE, et al. **Am J Physiol** 1990 Sep; 259(3 Pt 2):H772–83
Exercise training alters Ca release from coronary smooth muscle sarcoplasmic reticulum. Stehno-Bittel L, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H643–7
Vascular washout reduces Ca2+ overload and improves function of reperfused ischemic hearts. Tani M, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H354–61
ANG II inhibits calcium-activated potassium channels from coronary smooth muscle in lipid bilayers. Toro L, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H912–5
Does the oxygen tension of coronary sinus blood reflect myocardial oxygen tension? Cicogna AC, et al. **Braz J Med Biol Res** 1989;22(5):645–8
Characterization of human coronary artery atherosclerotic plaque fluorescence emission. Lucas A, et al. **Can J Cardiol** 1990 Jul–Aug;6(6):219–28
Synthesis of lipoxygenase and epoxygenase products of arachidonic acid by normal and stenosed canine coronary arteries. Rosolowsky M, et al. **Circ Res** 1990 Mar; 66(3):608–21
Autoradiographic mapping of calcitonin gene-related peptide receptors in human and guinea pig hearts. Coupe MO, et al. **Circulation** 1990 Mar;81(3):741–7
Insulin differentially alters transcapillary movement of intravascular IGFBP-1, IGFBP-2 and endothelial cell IGF-binding proteins in the rat heart. Bar RS, et al. **Endocrinology** 1990 Jul;127(1):497–9
Coronary reperfusion in dogs inhibits endothelium-dependent relaxation: role of superoxide radicals. Lawson DL, et al. **Free Radic Biol Med** 1990; 8(4):373–80
Limitations of regional myocardial thallium clearance for identification of disease in individual coronary arteries. Becker LC, et al. **J Am Coll Cardiol** 1989 Nov 15; 14(6):1491–500
Direct binding and functional studies on muscarinic cholinoceptors in porcine coronary artery. Yamada S, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):765–9
Dilator actions of endothelin in coronary resistance vessels and the abdominal aorta of the guinea pig. Folta A, et al. **Life Sci** 1989;45(26):2627–35
Hypoxia increases endothelin release in bovine endothelial cells in culture, but epinephrine, norepinephrine, serotonin, histamine and angiotensin II do not. Hieda HS, et al. **Life Sci** 1990;47(3):247–51
Characterization of an endothelial-dependent response to oxygen in porcine coronary artery. Close LA, et al. **Prog Clin Biol Res** 1990;327:555–8
Dexamethasone increases the release of three 44 kD proteins immunologically related to plasminogen activator inhibitor-1 from human umbilical vein endothelial and rabbit coronary microvessel endothelial cells. Partridge CA, et al. **Thromb Res** 1990 Jan 1;57(1):139–54
[Biological active polypeptides in the heart and coronary vessels] Guo XM, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):314–6 (16 ref.) (Chi)
[Sex hormone receptors of the cardiovascular system and their effects] Shak QM. **Sheng Li Ko Hsueh Chin Chan** 1990 Jan;21(1):73–5 (24 ref.) (Chi)

MICROBIOLOGY

Cytomegalovirus nucleic acids in allografted hearts [letter] Hruban RH, et al. **Hum Pathol** 1990 Sep;21(9):981–2

PATHOLOGY

Increased rate of left predominance associated with adult valvular aortic stenosis. Thorvinger B, et al. **Acta Radiol** 1990 May;31(3):245–7
Argon ion laser-excited autofluorescence in normal and atherosclerotic aorta and coronary arteries: morphologic studies. Fitzmaurice M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1028–38
Successful multiple segment coronary angioplasty: effect of completeness of revascularization in single-vessel multilesions and multivessels. Samson M, et al. **Am Heart J** 1990 Jul;120(1):1–12 (42 ref.)
Percutaneous fiberoptic angioscopy of the left ventricle in patients with dilated cardiomyopathy and acute myocarditis. Uchida Y, et al. **Am Heart J** 1990 Sep; 120(3):677–87
Quantitative analysis of amounts of coronary arterial narrowing in cocaine addicts. Dressler FA, et al. **Am J Cardiol** 1990 Feb 1;65(5):303–8
Comparison of proximal left anterior descending and circumflex coronary artery dimensions in aortic valve stenosis and hypertrophic cardiomyopathy. Kimball BP, et al. **Am J Cardiol** 1990 Mar 15;65(11):767–71
Morphometric analysis of the composition of coronary arterial plaques in isolated unstable angina pectoris with pain at rest. Kragel AH, et al. **Am J Cardiol** 1990 Sep 1; 66(5):562–7
Diffuse extent of coronary atherosclerosis in fatal coronary artery disease. Roberts WC. **Am J Cardiol** 1990 Mar 20; 65(12):2F–6F
Upright bicycle exercise echocardiography after coronary artery bypass grafting. Sawada SG, et al. **Am J Cardiol** 1989 Nov 15;64(18):1123–9
Influence of coronary arterial thrombus location on left ventricular function in acute myocardial infarction. Sheehan FH, et al. **Am J Cardiol** 1990 Jul 1;66(1):16–21
Value of gadolinium-diethylene-triamine pentaacetic acid dynamics in magnetic resonance imaging of acute myocardial infarction with occluded and reperfused

coronary arteries after thrombolysis. Van Rossum AC, et al. **Am J Cardiol** 1990 Apr 1;65(13):845–51

Late morphologic findings after coronary endarterectomy [letter] Walley VM, et al. **Am J Cardiol** 1990 Aug 1; 66(3):386

Decreases of vascular hypertrophy in four different types of arteries in spontaneously hypertensive rats. Clozel JP, et al. **Am J Med** 1989 Dec 26;87(6B):92S–95S

Histological and histochemical studies on local coronary wall thickenings (cushions) in Finnish children who died violently. Cardiovascular risk in young Finns? Raekallio J, et al. **APMIS** 1990 Feb;98(2):137–42

Secular trends in atherosclerosis of coronary arteries and basal cerebral arteries in Japan. The Akita pathology study. Konishi M, et al. **Arterioscler Thromb** 1990 Jul–Aug; 10(4):535–40

Coronary atherosclerosis in the pig. Induced plaque injury and platelet response. Reddick RL, et al. **Arterioscler Thromb** 1990 Jul–Aug;10(4):541–50

Does the extent of the zone at risk after coronary artery occlusion influence the percentage of the zone that evolves to infarction? Endo T, et al. **Cardiology** 1990;77(2):112–20

31P magnetic resonance spectroscopy of pressure overload hypertrophy in rats: effect of reduced perfusion pressure. Aufferman W, et al. **Cardiovasc Res** 1990 Jan;24(1):57–64

Morphometry of the small arteries and arterioles in the rat heart: effects of chronic hypertension and exercise. Rakusan K, et al. **Cardiovasc Res** 1990 Apr;24(4):278–84

Systolic compression of the right coronary artery by a pseudoaneurysm following mitral valve replacement. Minami KT, et al. **Cathet Cardiovasc Diagn** 1989 Sep; 18(1):31–5 (32 ref.)

Analysis of risk factors for restenosis after PTCA. Rupprecht HJ, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):151–9

Flow patterns and spatial distribution of atherosclerotic lesions in human coronary arteries. Asakura T, et al. **Circ Res** 1990 Apr;66(4):1045–66

Recurrent ischemia more than 1 year after successful percutaneous transluminal coronary angioplasty. An analysis of the extent and anatomic pattern of coronary disease. Bottner RK, et al. **Circulation** 1989 Dec; 80(6):1580–4

A macro and micro view of coronary vascular insult in ischemic heart disease. Davies MJ. **Circulation** 1990 Sep; 82(3 Suppl):II38–46 (60 ref.)

Morphometric analysis of the composition of atherosclerotic plaques in the four major epicardial coronary arteries in acute myocardial infarction and in sudden coronary death. Kragel AH, et al. **Circulation** 1989 Dec;80(6):1747–56

Coronary artery imaging with intravascular high-frequency ultrasound [see comments] Potkin BN, et al. **Circulation** 1990 May;81(5):1575–85 Comment in: Circulation 1990 May;81(5):1715–8.

Effect of a critical coronary stenosis on myocardial neutrophil accumulation during ischemia and early reperfusion in dogs. Richard VJ, et al. **Circulation** 1989 Dec;80(6):1805–15

Impact of compensatory enlargement of atherosclerotic coronary arteries on angiographic assessment of coronary artery disease. Stiel GM, et al. **Circulation** 1989 Dec; 80(6):1603–9

Coronary arterial morphology 10 years after "endarterectomy". Kragel AH, et al. **Clin Cardiol** 1990 Mar;13(3):224–6

Sudden coronary death. Warnes CA. **Clin Cardiol** 1989 Dec; 12(12):717–22

External compression by metastatic squamous cell carcinoma: a rare cause of left main coronary artery narrowing. Weinberg BA, et al. **Clin Cardiol** 1990 May;13(5):360–6

Mechanisms of myocyte and capillary growth in the infarcted heart. Anversa P, et al. **Eur Heart J** 1990 Apr;11 Suppl B:123–32

Intimal proliferation in coronary arteries of normolipidaemic pigs with a fixed stenosis: the effects of fish oil. Verdouw PD, et al. **Eur Heart J** 1989 Nov;10 Suppl F:168–72

Diameter of coronary arteries in infancy [letter; comment] Musumeci S, et al. **Eur J Pediatr** 1989 Nov;149(2):144–5 Comment on: Eur J Pediatr 1989 Feb;148(5):389–92.

Morphogenesis of aortic and coronary atherosclerosis in north India—a composite study. Tandon HD, et al. **Exp Mol Pathol** 1968 Dec;9(3):293–308

Pathologic changes in the long-term transplanted heart: a morphometric study of myocardial hypertrophy, vascularity, and fibrosis. Rowan RA, et al. **Hum Pathol** 1990 Jul;21(7):767–72

Predictors of the rate of success of angioplasty of the left circumflex artery. Katritsis D, et al. **Int J Cardiol** 1990 May;27(2):153–9

The spectrum of diseases of small coronary arteries and their physiologic consequences. James TN. **J Am Coll Cardiol** 1990 Mar 15;15(4):763–74

Coronary artery diameters in the heart with complete transposition of the great vessels. Oberhoffer RM, et al. **J Am Coll Cardiol** 1990 May;15(6):1433–7

Mode of death, frequency of healed and acute myocardial infarction, number of major epicardial coronary arteries severely narrowed by atherosclerotic plaque, and heart weight in fatal atherosclerotic coronary artery disease: analysis of 889 patients studied at necropsy [see comments] Roberts WC, et al. **J Am Coll Cardiol** 1990 Jan; 15(1):196–203 Comment in: J Am Coll Cardiol 1990 Jan;15(1):204–5.

Transthoracic two-dimensional high frequency (7.5 MHz) ultrasonic visualization of the distal left anterior descending coronary artery. Ross JJ Jr, et al. **J Am Coll Cardiol** 1990 Feb;15(2):373–7

Transesophageal examination of the left coronary artery with a 7.5 MHz annular array two-dimensional color flow Doppler transducer. Reichert SL, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):118–24

Evaluation of the coronary arteries with echocardiographic and Doppler techniques. Ryan TJ. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):252–3

Doppler diagnosis of left ventricle to coronary sinus fistula: an unusual complication of mitral valve replacement. Yee GW, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec; 1(6):458–62

Surgical treatment for myocardial bridge using intraoperative echocardiography. A report of two cases. Watanabe G, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec; 30(6):1009–12

MR imaging in the definition of coronary artery anomalies. Pucillo AL, et al. **J Comput Assist Tomogr** 1990 Mar–Apr; 14(2):171–4

The spectrum of coronary artery pathologic findings in human cardiac allografts. Johnson DE, et al. **J Heart Transplant** 1989 Sep–Oct;8(5):349–59

Pathologic features in long-term cardiac allografts. Pucci AM, et al. **J Heart Transplant** 1990 Jul–Aug;9(4):339–45

Relationship between the coronary diameter and occurrence of vasospastic angina in patients with normal coronary arteries. Kurimoto T, et al. **Jpn Circ J** 1989 Jul;53(7):747–55

Value of transesophageal color Doppler echocardiography in the evaluation of coronary artery anatomy and blood flow. Yoshida K, et al. **Jpn Circ J** 1990 Mar;54(3):296–303

Stenotic lesions and length of the left main coronary artery in the aged. Ohkawa S, et al. **Jpn Heart J** 1989 Nov; 30(6):779–88

Fissures in coronary atherosclerotic plaques [letter; comment] **Lancet** 1989 Dec 16;2(8677):1462–3 Comment on: Lancet 1989 Oct 21;2(8669):941–4.

Effects of Nd: YAG laser coagulation of myocardium on coronary vessels. Weber H, et al. **Lasers Surg Med** 1990; 10(2):133–9

Coronary anatomy and microarchitecture as related to coronary atherosclerotic involvement. Velican D, et al. **Med Interne** 1989 Oct–Dec;27(4):257–62

Myocardial ischemia caused by distal coronary-artery constriction in stable angina pectoris. Pupita G, et al. **N Engl J Med** 1990 Aug 23;323(8):514–20

A comparison of structural features of the walls of coronary arteries from 10 different species. Sims FH. **Pathology** 1989 Apr;21(2):115–24

Cell proliferation in human coronary arteries. Gordon D, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4600–4

Morphologic observations late after coronary balloon angioplasty: mechanisms of acute injury and relationship to restenosis. Waller BF, et al. **Radiology** 1990 Mar;174(3 Pt 2):961–7 (32 ref.)

Myocardial bridge over the right coronary artery in man. Bezerra AJ, et al. **Surg Radiol Anat** 1989;11(4):271–3

Morphologic and pathogenetic aspects of coronary artery atherosclerosis in ischemic heart disease. Nagornev VA. **Zentralbl Allg Pathol** 1989;135(6):591–8

Are routine autopsy protocols adequate for accurate appraisal of coronary atherosclerosis? Velican C, et al. **Zentralbl Allg Pathol** 1989;135(6):619–29

[Comparative study of left coronary artery of 128 necropsies with myocardial infarction] Wu X. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Mar;19(1):26–8 (Eng. Abstr.) (Chi)

[Pattern of the coronary endothelium in the human] Bürrig KF, et al. **Z Kardiol** 1989;78 Suppl 6:100–4 (30 ref.) (Eng. Abstr.) (Ger)

[Quantitative morphologic studies for localizing arteriosclerotic plaques in the circumference of coronary arteries] Strunk W, et al. **Z Kardiol** 1990 Apr;79(4):273–8 (Eng. Abstr.) (Ger)

[Multiple coronary arteriovenous fistulas in a patient who had an orthotopic heart transplant] Danzi GB, et al. **G Ital Cardiol** 1989 Aug;19(8):701–4 (Eng. Abstr.) (Ita)

[Heart aging and its clinical implications] Carbonin P, et al. **Recenti Prog Med** 1990 Apr;81(4):215–20 (57 ref.) (Eng. Abstr.) (Ita)

[Clinical features of patients with spontaneous recanalization of the infarct-related artery during evolving acute myocardial infarction] Dote K, et al. **J Cardiol** 1989 Sep; 19(3):729–39 (Eng. Abstr.) (Jpn)

[Residual coronary artery stenosis: its shapes immediately after thrombolysis and subsequent time courses] Kijima M, et al. **J Cardiol** 1989 Jun;19(2):393–402 (Eng. Abstr.) (Jpn)

[Precordial ST segment depression in acute inferior myocardial infarction: the importance of posterolateral wall infarction] Nishian K, et al. **J Cardiol** 1989 Jun;19(2):413–24 (Eng. Abstr.) (Jpn)

[Correlations between results of selective intracoronary thrombolysis and histologic findings of the infarct-related coronary arteries] Onodera T, et al. **J Cardiol** 1989 Jun; 19(2):387–91 (Eng. Abstr.) (Jpn)

[Characteristics of stress Tl-201 myocardial SPECT images in patients with coronary artery lesion of just proximal portion of left anterior descending artery or high lateral branch] Tanaka T, et al. **Kaku Igaku** 1990 Jan;27(1):17–21 (Eng. Abstr.) (Jpn)

[Coronary calcification in cinefluoroscopy: the noninvasive diagnosis of ischemic myocardial disease masquerading as dilated cardiomyopathy] Yamanaka O. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):899–904 (Jpn)

[Photogrammetric methods of measuring coronary artery stenosis] Rychlewski G. **Kardiol Pol** 1989;32 Suppl 1:23–9 (Pol)

[Histologic aspects of intramyocardial arterioles, during drug induced vasodilation and vasoconstriction] Jorge PA. **Arq Bras Cardiol** 1989 Mar;52(3):129–31 (Eng. Abstr.) (Por)

[Anatomic study of the coronary arteries in transposition of great vessels] Monteiro DC, et al. **Arq Bras Cardiol** 1989 Jul;53(1):9–13 (Eng. Abstr.) (Por)

[Morphologic changes of the coronary vessels in patients with congenital heart defects] Shormanov SV. **Arkh Patol** 1989;51(7):44–50 (Eng. Abstr.) (Rus)

[Dopplerography and ultrasonic scanning of the internal thoracic artery and of mammary-coronary shunts] Balakhonov TV, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):7–10 (Eng. Abstr.) (Rus)

[Unstable stenocardia: various problems of pathogenesis and treatment] Gratsianskiĭ NA. **Kardiologiia** 1989 Oct; 29(10):26–31 (Rus)

[Changes in the cardiac vascular bed in dilated and hypertrophic cardiomyopathy] Rozenberg VD. **Kardiologiia** 1989 Nov;29(11):116–20 (Eng. Abstr.) (Rus)

[Structural changes in coronary arteries in congenital heart defects] Shormanov SV, et al. **Kardiologiia** 1989 Aug; 29(8):89–91 (Rus)

[Morphological aspects of the development and course of coronary atherosclerosis] Zhdanov VS. **Kardiologiia** 1989 Nov;29(11):43–6 (Eng. Abstr.) (Rus)

[Sudden death in ischemic heart disease] Dombrovskaia EA, et al. **Sov Med** 1989;(6):51–4 (Rus)

PHYSIOLOGY

Interaction between neutrophils and pig coronary artery increases histamine contractions. van Heuven-Nolsen D, et al. **Agents Actions** 1990 Apr;30(1–2):195–7

Physiologic role of coronary PGI2 and PGE2 in modulating coronary vascular response to sympathetic stimulation. Neri Serneri GG, et al. **Am Heart J** 1990 Apr;119(4):848–54

Effect of stenosis on exercise-induced dilation of large coronary arteries. Schwartz JS, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):520–4

Mechanics of K(+)-induced isotonic and isometric contractions in isolated canine coronary microarteries. Boels PJ, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):C512–23

Ventricular remodeling induced by acute nonocclusive constriction of coronary artery in rats. Capasso JM, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1983–93

Nitric oxide modulates epicardial coronary basal vasomotor tone in awake dogs. Chu A, et al. **Am J Physiol** 1990 Apr; 258(4 Pt 2):H1250–4

Effects of a stabilized endothelium-derived relaxing factor on the coronary vasculature in awake dogs. Chu A, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1895–9

Effects of endothelium regeneration on canine coronary artery function. Cox RH, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1681–92

Mechanism of contraction to endothelin in isolated porcine coronary artery. Kasuya Y, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 2):H1828–35

Effect of ACh on electrical and mechanical activity in guinea pig coronary arteries. Keef KD, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1096–103

Contractility is the main determinant of coronary systolic flow impediment. Krams R, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 2):H1936–44

Attenuated coronary relaxation after reperfusion: effects of superoxide dismutase and TxA2 inhibitor U 63557A. Mehta JL, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1240–6

Evidence for adenosine receptor-mediated hyperpolarization in coronary smooth muscle. Sabouni MH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1750–2

Vascular reactivity of the coronary artery in rainbow trout (Oncorhynchus mykiss). Small SA, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1402–10

Canine coronary vasodepressor responses to hypoxia are abolished by 8-phenyltheophylline. Wei HM, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1043–8

Coronary collateral regression in conscious dogs. Fujita M, et al. **Angiology** 1990 Aug;41(8):621–30

Controlled initial hyperkalemic reperfusion after cardiac transplantation: coronary vascular resistance and blood flow. Kirklin JK, et al. **Ann Thorac Surg** 1990 Apr; 49(4):625–31

Vasodilator actions of interleukin-1 in the canine coronary circulation. Kenny D, et al. **Basic Res Cardiol** 1990 May–Jun;85(3):279–84

Removal of endothelial function in coronary resistance vessels by saponin. Wiest E, et al. **Basic Res Cardiol** 1989 Sep–Oct;84(5):469–78

Role of neuropeptides on conductive and resistive coronary vessels in man. Maseri A. **Bibl Cardiol** 1989;(44):1–4

Glutathione disulfide formation and lipid peroxidation during cardiac ischemia and reflow in the dog in vivo. Lenz ML, et al. **Biochem Biophys Res Commun** 1989 Oct 31;

164(2):722–7
Effects of leukocyte activation on myocardial vascular resistance. Ito BR, et al. **Blood Cells** 1990;16(1):145–63; discussion 163–6 (77 ref.)
The antiarrhythmic efficacy of intravenous anipamil against occlusion and reperfusion arrhythmias. MacLeod BA, et al. **Br J Pharmacol** 1989 Dec;98(4):1165–72
Training in dogs with normal coronary arteries: lack of effect on collateral development. Cohen MV. **Cardiovasc Res** 1990 Feb;24(2):121–8
Nonuniform loss of regional flow reserve during myocardial ischemia in dogs. Coggins DL, et al. **Circ Res** 1990 Aug; 67(2):253–64
Isolated guinea pig coronary smooth muscle cells. Acetylcholine induces hyperpolarization due to sarcoplasmic reticulum calcium release activating potassium channels. Ganitkevich V, et al. **Circ Res** 1990 Aug;67(2):525–8
Myocardial infarction following coronary ligation in dogs. Hemodynamic effects of isoproterenol and acetylstrophanthidin. Hood WB Jr, et al. **Circ Res** 1967 Aug;21(2):191–9
Coronary arteriolar myogenic response is independent of endothelium. Kuo L, et al. **Circ Res** 1990 Mar;66(3):860–6
Polymorphonuclear leukocytes induced vasoconstriction in isolated canine coronary arteries. Nishida M, et al. **Circ Res** 1990 Jan;66(1):253–8
Dynamic relation between myocardial contractility and energy metabolism during and following brief coronary occlusion in the pig. Schwartz GG, et al. **Circ Res** 1990 Aug;67(2):490–500
Rapid and reversible inhibition by low density lipoprotein of the endothelium-dependent relaxation to hemostatic substances in porcine coronary arteries. Heat and acid labile factors in low density lipoprotein mediate the inhibition. Tomita T, et al. **Circ Res** 1990 Jan;66(1):18–27
Outward potassium currents in freshly isolated smooth muscle cell of dog coronary arteries. Wilde DW, et al. **Circ Res** 1989 Dec;65(6):1718–34
Influence of coronary occlusion during PTCA on end-systolic and end-diastolic pressure-volume relations in humans. Kass DA, et al. **Circulation** 1990 Feb; 81(2):447–60
Effects of H1-receptor stimulation on coronary arterial diameter and coronary hemodynamics in humans. Matsuyama K, et al. **Circulation** 1990 Jan;81(1):65–71
Creation of anastomoses between an extracardiac artery and the coronary circulation. Proof that myocardial angiogenesis occurs and can provide nutritional blood flow to the myocardium. Unger EF, et al. **Circulation** 1990 Oct; 82(4):1449–66
An artery has many masters [comment] Wilson RF. **Circulation** 1990 Mar;81(3):1147–50 Comment on: Circulation 1990 Mar;81(3):850–9.
Coronary vasomotor tone. E.S.C. Working Group on Angina Pectoris and Myocardial Blood Flow. 26–28 May, Cologne, F.R.G. Proceedings. **Eur Heart J** 1989 Nov;10 Suppl F:1–182
Flow-dependent regulation of coronary vasomotor tone. Bassenge E. **Eur Heart J** 1989 Nov;10 Suppl F:22–7 (32 ref.)
Angiographic assessment of human coronary artery endothelial function by measurement of endothelium-dependent vasodilation. Bosseller C, et al. **Eur Heart J** 1989 Nov;10 Suppl F:44–8
A new endothelium-dependent vasoconstricting factor (EDCF) in pig coronary artery. Dhein S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:82–5
Morphometric versus densitometric assessment of coronary vasomotor tone—an overview. Doriot PA, et al. **Eur Heart J** 1989 Nov;10 Suppl F:49–53 (11 ref.)
Endothelium-derived relaxing factor (EDRF): a defence mechanism against platelet aggregation and vasospasm in human coronary arteries. Förstermann U, et al. **Eur Heart J** 1989 Nov;10 Suppl F:36–43
Coronary vasomotor tone during static and dynamic exercise. Hess OM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:105–10
Neurogenic regulation of coronary vasomotor tone. Heusch G, et al. **Eur Heart J** 1989 Nov;10 Suppl F:6–14 (62 ref.)
Coronary vasomotor tone: a heterogeneous entity. Maseri A, et al. **Eur Heart J** 1989 Nov;10 Suppl F:2–5 (25 ref.)
Coronary flow increases induced by adenosine and adenine nucleotides are mediated by the coronary endothelium: a new principle of the regulation of coronary flow. Nees S. **Eur Heart J** 1989 Nov;10 Suppl F:28–35
Validation of a digital angiographic model to quantitate autoregulatory vasodilation of the coronary system. Zeiher AM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:66–72
Extracellular Ca2+-activated K channel in coronary artery smooth muscle cells and its role in vasodilation. Inoue I, et al. **FEBS Lett** 1989 Sep 25;255(2):281–4
Postmortem changes in endothelium-dependent and independent responses of porcine coronary arteries. Vedernikov YP, et al. **Gen Pharmacol** 1990;21(1):49–52
The effects of radiographic contrast media on myocardial contractility and coronary resistance: osmolality, ionic concentration, and viscosity. Fleetwood G, et al. **Invest Radiol** 1990 Mar;25(3):254–60
Seminar on small coronary artery disease: structure and function of small coronary arteries in health and disease—I. Based on papers presented by the WHO/ISFC Task Force. Geneva, Switzerland, June 12, 1989. **J Am Coll Cardiol** 1990 Mar 1;15(3):511–90
Endothelial injury and coronary vasomotion. Chesebro JH, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1191–2
Endothelial control of vascular tone in large and small coronary arteries. Lüscher TF, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):519–27 (122 ref.)
Molecular biologic concepts of coronary anastomoses. Schaper W, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):513–8 (31 ref.)
Coronary vasomotion in response to sympathetic stimulation in humans: importance of the functional integrity of the endothelium. Zeiher AM, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1181–90
Characterization and platelet inhibitory activity of bitistatin, a potent arginine-glycine-aspartic acid-containing peptide from the venom of the viper Bitis arietans. Shebuski RJ, et al. **J Biol Chem** 1989 Dec 25;264(36):21550–6
Evidence for altered epicardial coronary artery autoregulation as a cause of distal coronary vasoconstriction after successful percutaneous transluminal coronary angioplasty. Fischell TA, et al. **J Clin Invest** 1990 Aug;86(2):575–84
Oxidized low density lipoproteins cause contraction and inhibit endothelium-dependent relaxation in the pig coronary artery. Simon BC, et al. **J Clin Invest** 1990 Jul; 86(1):75–9
Adenosine receptor-mediated relaxation in coronary artery: evidence for a guanyl nucleotide-binding regulatory protein involvement. Sabouni MH, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):943–8
Ventriculoarterial coupling influences regional contractility. Krukenkamp IB, et al. **J Surg Res** 1990 Sep;49(3):212–6
Augmented coronary sinus pressure does affect coronary autoregulation [letter; comment] Papp L, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):634–6 Comment on: J Thorac Cardiovasc Surg 1988 Mar;95(3):511–5.
Implantable sensor for intraoperative and postoperative monitoring of blood flow: a preliminary report. Rabinovitz RS, et al. **J Vasc Surg** 1990 Aug;12(2):148–57
Venous flow in the great cardiac vein of the dog. Nakamura Y, et al. **Jpn Heart J** 1990 Jan;31(1):99–108
Comparative effects of arotinolol, labetalol and propranolol on regional myocardial dysfunction induced by flow-limiting coronary stenosis in anesthetized dogs. Noguchi K, et al. **Jpn J Pharmacol** 1990 Jul;53(3):381–91
Atrial natriuretic factor in the Langendorff perfused coronary vasculature of the rabbit isolated heart. Klair SS, et al. **Life Sci** 1989;45(25):2477–83
Divalent cation regulation of endothelial-dependent relaxation in coronary blood vessels. Ku DD. **Microcirc Endothelium Lymphatics** 1989 Feb–Apr; 5(1–2):99–120
Blood flow in the coronary arteries of man: relation to atherosclerosis. Sabbah HN, et al. **Monogr Atheroscler** 1990; 15:77–90
Studies on the changes in myocardial oxygen tension. Nakamura T, et al. **Nippon Juigaku Zasshi** 1990 Feb; 52(1):79–84
Autoregulation by the right coronary artery in dogs with open chests; comparison with the left coronary artery. Tani H, et al. **Pflugers Arch** 1990 Jun;416(4):442–7
Comparison of endothelin- and caffeine-induced calcium mobilization in coronary artery smooth muscle cells. Wagner-Mann C, et al. **Prog Clin Biol Res** 1990;327:517–24
Hypoxic dilation of coronary arteries is mediated by ATP-sensitive potassium channels. Daut J, et al. **Science** 1990 Mar 16;247(4948):1341–4
5-HT receptors in the coronary circulation. Angus JA. **Trends Pharmacol Sci** 1989 Mar;10(3):89–90 (14 ref.)
[Activation and inhibition of adrenergic effects on the coronary vessels of patients with different forms of angina pectoris] De Cesare N, et al. **Cardiologia** 1989 Jul; 34(7):599–607 (Eng. Abstr.) **(Ita)**
[Coronary artery tone assessed by the administration of ergonovine maleate and nitrates] Hoshio A, et al. **J Cardiol** 1988 Dec;18(4):989–96 (Eng. Abstr.) **(Jpn)**
[The role of peripheral cholinergic and adrenergic receptor systems in the action of histamine on the isolated coronary arteries] Karachentsev AN, et al. **Fiziol Zh** 1989 Nov–Dec; 35(6):92–5 (Eng. Abstr.) **(Rus)**
[The participation of cardiac, vascular and coronary components in the shaping of cardiovascular reactions to head-down tilt exposures] Osadchiĭ LI, et al. **Fiziol Zh SSSR** 1990 Feb;76(2):219–26 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Coronary sinus dilatation in acute pulmonary embolism. Andersen RL, et al. **Am Heart J** 1989 Dec;118(6):1346–8
Blood rheology as a contributing factor in reduced coronary reserve in systemic hypertension. Leschke M, et al. **Am J Cardiol** 1990 Apr 3;65(14):56G–59G
An in vitro model of ischemia/reperfusion-induced microvascular injury. Inauen W, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G134–9
Syndrome of diminished vasodilator reserve of the coronary microcirculation (microvascular angina or syndrome X): diagnosis by combined atrial pacing and thallium 201 imaging—a case report. Magarian GJ, et al. **Angiology** 1990 Aug;41(8):667–72
Acute hemodynamic effects of coronary artery ligation in conscious rats. Schoemaker RG, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):9–20
Selective ECG synchronised suction and retroinfusion of coronary veins: first results of studies in acute myocardial ischaemia in dogs. Boekstegers P, et al. **Cardiovasc Res** 1990 Jun;24(6):456–64
Spontaneous reversal of flow through jeopardized collateral vessels during non-Q wave myocardial infarction. Klutstein MW, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):103–7
Inhibition of transvenous pacing through the coronary sinus by the atrial P wave: diagnosis with the aid of isoproterenol. Weinstock M, et al. **Chest** 1971 May;59(5):563–6
Prolonged impairment of coronary vasodilation after reversible ischemia. Evidence for microvascular "stunning". Bolli R, et al. **Circ Res** 1990 Aug;67(2):332–43
Acute impairment of endothelium-dependent relaxations to aggregating platelets following reperfusion injury in canine coronary arteries. Pearson PJ, et al. **Circ Res** 1990 Aug; 67(2):385–93
Hyperlipidemic arterial dysfunction [comment] Henry PD. **Circulation** 1990 Feb;81(2):697–9 Comment on: Circulation 1990 Feb;81(2):482–90. Comment on: Circulation 1990 Feb;81(2):491–7.
Early evidence of endothelial vasodilator dysfunction at coronary branch points. McLenachan JM, et al. **Circulation** 1990 Oct;82(4):1169–73
Coronary artery spasm and vasoconstriction. The case for a distinction. Maseri A, et al. **Circulation** 1990 Jun; 81(6):1983–91 (75 ref.)
Paradoxical narrowing of atherosclerotic coronary arteries induced by increases in heart rate [see comments] Nabel EG, et al. **Circulation** 1990 Mar;81(3):850–9 Comment in: Circulation 1990 Mar;81(3):1147–50.
Long-term impairment of endothelium-dependent relaxations to aggregating platelets after reperfusion injury in canine coronary arteries. Pearson PJ, et al. **Circulation** 1990 Jun;81(6):1921–7
Endothelium-dependent vascular relaxation is abnormal in the coronary microcirculation of atherosclerotic primates. Sellke FW, et al. **Circulation** 1990 May;81(5):1586–93
Endothelium-dependent dilation of the coronary microvasculature is impaired in dilated cardiomyopathy. Treasure CB, et al. **Circulation** 1990 Mar;81(3):772–9
Thrombosis and anticoagulation therapy in coronary ectasia. Perlman PE, et al. **Clin Cardiol** 1989 Sep;12(9):541–2
Myocyte contracture, vascular resistance, and vascular permeability after global ischemia in isolated hearts from alloxan-induced diabetic rabbits. Tilton RG, et al. **Diabetes** 1989 Nov;38(11):1484–91
Abnormal diffuse coronary vasomotion. Lablanche JM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:111–8
Progressive coronary vasoconstriction during 25 hours of myocardial preservation in vitro impairs functional capacity following preservation. Susilo AW, et al. **Eur J Cardiothorac Surg** 1989;3(6):544–8
Responsiveness of sheep isolated coronary artery rings under simulated myocardial ischaemia. Kwan YW, et al. **Eur J Pharmacol** 1989 Sep 1;168(1):31–8
Importance of myocardial ischemia for coronary collateral development in conscious dogs. Fujita M, et al. **Int J Cardiol** 1990 May;27(2):179–86
Control of shear stress in the epicardial coronary arteries of humans: impairment by atherosclerosis [comment] Bing RJ. **J Am Coll Cardiol** 1989 Nov 1;14(5):1200–1 Comment on: J Am Coll Cardiol 1989 Nov 1;14(5):1193–9.
Failure of nitroglycerin and diltiazem to reduce platelet-mediated vasoconstriction in dogs with coronary artery stenosis and endothelial injury: further evidence for thromboxane A2 and serotonin as mediators of coronary artery vasoconstriction in vivo [see comments] Golino P, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):718–26 Comment in: J Am Coll Cardiol 1990 Mar 1;15(3):727–9.
Platelet activation in unstable angina: role of thromboxane A2 and other mediators of vasoconstriction [comment] Mehta JL. **J Am Coll Cardiol** 1990 Mar 1;15(3):727–9 (37 ref.) Comment on: J Am Coll Cardiol 1990 Mar 1;15(3):718–26.
Large coronary arteries in humans are responsive to changing blood flow: an endothelium-dependent mechanism that fails in patients with atherosclerosis [see comments] Nabel EG, et al. **J Am Coll Cardiol** 1990 Aug;16(2):349–56 Comment in: J Am Coll Cardiol 1990 Aug;16(2):357–8.
Response of the coronary vasculature to myocardial hypertrophy. Tomanek RJ. **J Am Coll Cardiol** 1990 Mar 1;15(3):528–33 (56 ref.)
Control of shear stress in the epicardial coronary arteries of humans: impairment by atherosclerosis [see comments] Vita JA, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1193–9 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1200–1.
Angiographic response to a vasodilating drug, nicorandil, in patients with coronary artery disease. Kishida H, et al. **Jpn Heart J** 1990 Mar;31(2):135–43
Transmural redistribution of coronary resistance during embolization: a clue to intramyocardial small artery architecture. Pelosi G, et al. **Microvasc Res** 1990 May; 39(3):322–40
Sudden cardiac death caused by coronary ostial compression by an aneurysm of the sinus of Valsalva. Henry RE, et al. **West Indian Med J** 1989 Dec;38(4):250–2
Endothelium-derived relaxing factor in human coronary artery. Bossaller C, et al. **Z Kardiol** 1989;78 Suppl 6:59–63 (49 ref.)
[Greater efficacy of propranolol versus nifedipine in angina

with 2 components, that results in varying influence on coronary vasomotility] Fabbiocchi F, et al. **Cardiologia** 1989 Oct;34(10):861–9 (Eng. Abstr.) (Ita)

[Use of photogrammetry for evaluating the effectiveness of percutaneous transluminal coronary angioplasty] Dabrowski M, et al. **Kardiol Pol** 1989;32 Suppl 1:30–5 (Eng. Abstr.) (Pol)

[Hyperuricemia and arterial hypertension] Tykarski A. **Pol Tyg Lek** 1989 Jul 23–30;44(30–31):691–5 (Pol)

[The capillary system of the rat heart in occlusion of the coronary artery] Sisakian SA, et al. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):15–8 (Eng. Abstr.) (Rus)

[Adaptive structure or arterial and venous sections of the coronary basin in congenital defects of the heart] Shormanov SV. **Arkh Patol** 1989;51(6):12–9 (Eng. Abstr.) (Rus)

[The role of endothelium in the coronary vessel reactive hyperemia reaction] Sagach VF, et al. **Dokl Akad Nauk SSSR** 1989;307(3):765–7 (Rus)

[Evaluation of late results of aortocoronary bypass in patients with ischemic heart disease in relation to the bypass function] Martsinkiavichius A, et al. **Grud Serdechnososudistaia Khir** 1990;(3):17–20 (Eng. Abstr.) (Rus)

[Painless myocardial ischemia in patients with stable stenocardia] Furkalo NK, et al. **Kardiologiia** 1990 Apr; 30(4):54–7 (Eng. Abstr.) (Rus)

[Painless episodes of ST segment displacement and the possibility of their prevention in patients with exertion-induced stenocardia] Gusarov GV, et al. **Kardiologiia** 1990 Apr;30(4):61–4 (Eng. Abstr.) (Rus)

[Possibility of quantitative evaluation of venous outflow in patients with acute myocardial infarction during emergency coronarography] Kuliev OA, et al. **Kardiologiia** 1989 Jul; 29(7):114–5 (Rus)

[Development of left-ventricular aneurysm in relation to the status of the coronary bed in patients with a history of myocardial infarction] Kuliev OA, et al. **Kardiologiia** 1990 Apr;30(4):22–5 (Eng. Abstr.) (Rus)

[Computerized tomography in evaluating the function of aortocoronary shunts] Rabkin IKh, et al. **Kardiologiia** 1989 Aug;29(8):12–5 (Eng. Abstr.) (Rus)

[Study of the role of the endothelium in the development of coronary vessel reactions of different etiologies] Sagach VF, et al. **Kardiologiia** 1990 Jan;30(1):62–5 (Eng. Abstr.) (Rus)

[Vascular mechanisms of disorders of rheological properties of the blood in patients with myocardial infarction] Savenkov MP, et al. **Kardiologiia** 1989 Oct;29(10):43–7 (Eng. Abstr.) (Rus)

[Relation between microcirculatory disorders and coronary circulation in patients with a history of myocardial infarction (clinico- angiographic study)] Tepliakov AT, et al. **Kardiologiia** 1990 Apr;30(4):18–22 (Eng. Abstr.) (Rus)

[Value of 24-hour ECG Holter monitoring in the evaluation of painless episodes of ST segment depression in patients with ischemic heart disease] Vezhin'ska B, et al. **Kardiologiia** 1990 Apr;30(4):57–60 (Eng. Abstr.) (Rus)

[Dynamic function of the recanalized coronary artery in patients with myocardial infarct undergoing thrombolytic therapy] Savchenko AP, et al. **Ter Arkh** 1989;61(9):32–6 (Eng. Abstr.) (Rus)

[Diagnostic potential of the first ECG derivative in assessing the coronary artery status of patients with ischemic heart disease] Volkova EG, et al. **Ter Arkh** 1990;62(4):35–8 (Eng. Abstr.) (Rus)

[Function of the myocardium after revascularization and the patency of coronary shunts] Azovtsev RA, et al. **Vestn Khir** 1989 Dec;144(12):7–12 (Eng. Abstr.) (Rus)

RADIATION EFFECTS

Endothelial cell proliferation in the rat heart following local heart irradiation. Lauk S, et al. **Int J Radiat Biol** 1990 May; 57(5):1017–30

[Effect of laser irradiation on arteriosclerotic changes in coronary arteries. Preliminary report] Opolski G, et al. **Pol Arch Med Wewn** 1987 Mar;77(3):83–6 (Eng. Abstr.) (Pol)

RADIOGRAPHY

Effect of contrast media on left ventricular function during left coronary arteriography in dogs. Hayakawa K, et al. **Acta Radiol** 1989 Nov–Dec;30(6):655–9

Coronary angiography and thallium-201 single photon emission computed tomography in single vessel coronary artery disease. Svane B, et al. **Acta Radiol** 1990 May; 31(3):237–44

Polar presentation of coronary angiography and thallium-201 single photon emission computed tomography. A method for comparing anatomic and pathologic findings in coronary angiography with isotope distribution in thallium-201 myocardial SPECT. Svane B, et al. **Acta Radiol** 1989 Nov–Dec;30(6):561–74

Coronary angiography of pulmonary atresia, hypoplastic right ventricle, and ventriculocoronary communications. Burrows PE, et al. **AJR Am J Roentgenol** 1990 Apr; 154(4):789–95

Computerized on-line reporting of coronary angiograms with the CLIP system. Kim D, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1307–10

Coronary artery-left ventricle fistula [letter] [see comments] Pedersen HK, et al. **AJR Am J Roentgenol** 1989 Nov; 153(5):1098 Comment in: AJR Am J Roentgenol 1990 Apr;154(4):898.

Repeat coronary angioplasty during the same angiographic diagnosis of coronary restenosis. Alfonso F, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):237–41

The value of exercise testing in patients with coronary artery spasm. Castello R, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):259–63

Clinical and angiographic recurrence following PTCA for nonacute total occlusions: comparison of one- versus five-minute inflations. DiSciascio G, et al. **Am Heart J** 1990 Sep;120(3):529–32

Coronary collaterals in acute myocardial infarction without underlying coronary stenosis. Edwards RR, et al. **Am Heart J** 1990 Aug;120(2):424–7

Comparison of quantitative coronary angiography to visual estimates of lesion severity pre and post PTCA. Goldberg RK, et al. **Am Heart J** 1990 Jan;119(1):178–84

Cardiac phase-related variability of border detection or densitometric quantitation of postangioplasty lumens. Katritsis D, et al. **Am Heart J** 1990 Sep;120(3):537–43

Use of coronary arteriography in the preoperative management of patients undergoing urgent repair of the thoracic aorta. Kern MJ, et al. **Am Heart J** 1990 Jan; 119(1):143–8 (28 ref.)

Comparative analysis of coronary angiographic morphology following restenosis. Klein LW, et al. **Am Heart J** 1990 Jan;119(1):35–41

Thromboembolism in an angiographically normal coronary artery. Moriuchi M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1065–7

Coronary angiographic ruptured atheromatous plaque as a predictor of future progression of stenosis. Nagatomo Y, et al. **Am Heart J** 1990 Jun;119(6):1244–53

The mechanism and significance of ventricularization of intracoronary pressure during coronary angiography. Pacold I, et al. **Am Heart J** 1989 Dec;118(6):1160–6

Acute myocardial infarction-related coronary artery residual narrowing after intravenous streptokinase: relationship with previous coronary symptoms. Sarmiento RA, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):888–92

A new method of scoring coronary angiograms to reflect extent of coronary atherosclerosis and improve correlation with major risk factors. Sullivan DR, et al. **Am Heart J** 1990 Jun;119(6):1262–7

Acute ventricular septal rupture: perspectives on the current role of ventriculography and coronary arteriography and their implication for surgical repair. Topaz O, et al. **Am Heart J** 1990 Aug;120(2):412–7 (31 ref.)

Stunned myocardium in hypertrophic cardiomyopathy with normal coronary arteries. Yasutomi N, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1069–73

Randomized controlled trial of late in-hospital angiography and angioplasty versus conservative management after treatment with recombinant tissue-type plasminogen activator in acute myocardial infarction. Barbash GI, et al. **Am J Cardiol** 1990 Sep 1;66(5):538–45

"Ischemic" ST-segment changes during the pericatheterization period in men with angiographically confirmed coronary artery disease Bauerlein EJ, et al. **Am J Cardiol** 1990 Jul 15;66(2):225–7

Mechanism of acute myocardial infarction in patients with prior coronary artery bypass grafting and therapeutic implications. Grines CL, et al. **Am J Cardiol** 1990 Jun 1; 65(20):1292–6

Comparison of automated quantitative coronary angiography with caliper measurements of percent diameter stenosis. Kalbfleisch SJ, et al. **Am J Cardiol** 1990 May 15; 65(18):1181–4

Left main coronary artery disease progression after percutaneous transluminal coronary angioplasty. Kells CM, et al. **Am J Cardiol** 1990 Feb 15;65(7):513–4

Quantitative arteriographic responses to ergonovine provocation in subjects with atypical chest pain. Kimball BP, et al. **Am J Cardiol** 1989 Oct 1;64(12):778–82

Usefulness of right-sided cardiac catheterization durir g "routine" coronary angiography. Kogan AD, et al. **Am J Cardiol** 1990 Apr 15;65(15):1034–7

The "laid-back" aortogram: an improved angiographic view for demonstration of coronary arteries in transposition of the great arteries. Mandell VS, et al. **Am J Cardiol** 1990 Jun 1;65(20):1379–83

Frequency of symptoms suggestive of dynamic coronary artery disease in patients referred for coronary angiography. Nesto RW, et al. **Am J Cardiol** 1989 Dec 1;64(19):1374–6

Acute myocardial infarction with normal coronary arteries associated with acetylcholine-induced vasoconstriction in the absence of a positive ergonovine test. Treasure CB, et al. **Am J Cardiol** 1990 Jan 15;65(3):255–7

Impending myocardial infarction in a patient with marked left ventricular hypertrophy and normal coronary arteriogram—a case report. Bestetti RB, et al. **Angiology** 1989 Nov;40(11):1020–4

An angiographic study of intracardiac coronary arteries from human autopsy hearts: their clinicopathologic significance and characterization during transmural myocardial infarction. Kuwao S, et al. **Angiology** 1990 Mar; 41(3):194–206

Correlates of atherosclerosis in coronary arteries of patients undergoing angiographic evaluation. Perez GO, et al. **Angiology** 1990 Jul;41(7):525–32

Follow-up study of morbidity in patients with angina pectoris and normal coronary angiograms and the value of investigation for esophageal dysfunction. Schofield PM. **Angiology** 1990 Apr;41(4):286–96

Thallium-201 myocardial scintigraphic evidence of ischemia in a patient with angina pectoris and normal coronary arteriogram: significance of thallium-201 washout analysis. Shimizu T, et al. **Ann Nucl Med** 1989 Mar;3(1):41–4

A Hough transform technique for tracking arterial bifurcations in successive angiograms. Periyalwar S, et al. **Biomed Sci Instrum** 1990;26:1–3

The improvements to a network flow approach to reconstruction of the vascular cross sections from two orthogonal projections. Bao YJ. **Biomed Tech (Berlin)** 1989; 34 Suppl:72–4

Spatial reconstruction of coronary arteries from biplane coronary angiograms. Guggenheim N, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:70–1

Major complications of coronary arteriography: the place of cardiac surgery [letter] **Br Heart J** 1990 Jul;64(1):105–6

Should coronary angiography be performed in district hospitals? [editorial; comment] Mills P. **Br Heart J** 1990 Feb;63(2):73 Comment on: Br Heart J 1990 Feb;63(2):74–7.

Major complications of coronary arteriography: the place of cardiac surgery [see comments] Stewart JT, et al. **Br Heart J** 1990 Feb;63(2):74–7 Comment in: Br Heart J 1990 Feb;63(2):73.

Comparison of iopromide and iopamidol in left ventricular angiography and in coronary angiography. Dyet JF, et al. **Br J Radiol** 1990 Sep;63(753):700–3

The choice of contrast agents in the cardiac catheterization laboratory. Morton BC. **Can J Cardiol** 1989 Nov–Dec; 5(8):379–81

Major depression and agoraphobia in patients with angiographically normal coronary arteries and panic disorder. Beitman BD, et al. **Can J Psychiatry** 1990 May; 35(4):298–304

Ear lobe crease and coronary artery disease in patients undergoing coronary arteriography. Kenny DJ, et al. **Cardiology** 1989;76(4):293–8

Coronary angiographic features within 48 hours from onset of non-Q wave myocardial infarction with R wave regression and no ST segment depression. Park SE, et al. **Cardiology** 1990;77(2):121–9

Is noninvasive risk stratification sufficient, or should all patients undergo cardiac catheterization and angiography after a myocardial infarction? Kulick DL, et al. **Cardiovasc Clin** 1990;21(1):3–25; discussion 26–9 (170 ref.)

The incidence of myocardial bridges in heart transplants. Wymore P, et al. **Cardiovasc Intervent Radiol** 1989 Jul–Aug;12(4):202–6

Mechanism of ECG changes and arrhythmogenic properties of low osmolality contrast media during coronary arteriography in dog. Kløw NE, et al. **Cardiovasc Res** 1990 Apr;24(4):303–8

Side branch occlusion during coronary angioplasty: incidence, angiographic characteristics, and outcome. Arora RR, et al. **Cathet Cardiovasc Diagn** 1989 Dec; 18(4):210–2

False detection of left atrial thrombus by the angiographic sign of "neovascularity". Chow WH, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):165–7

Pseudodissection: negative contrast streaming from collateral flow branch mimicking coronary arterial dissection. Fagan LF Jr, et al **Cathet Cardiovasc Diagn** 1989 Sep;18(1):15–7

Performance of 5 French and 7 French catheters in coronary angiography [letter] Favereau X, et al. **Cathet Cardiovasc Diagn** 1990 Mar;19(3):227

Quality is the only issue. Hildner FJ. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):216–7

Optimal display of the coronary arterial tree with an upscan 1,023-line video display system. Holmes DR Jr, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):175–80

Coronary spasm masquerading as progressive exertional angina with normal coronaries. Houghton JL, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):172–4

Comparison of 5F and 7/8F catheters for left ventricular and coronary angiography. Hui WK, et al. **Cathet Cardiovasc Diagn** 1990 Feb;19(2):84–6

Aortic valve tumor: an unusual cause of coronary obstruction during cardiac catheterization. Israel DH, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):48–50

Reproducible uniform coronary vasomotor tone with nitrocompounds: prerequisite of quantitative coronary angiographic trials. Jost S, et al. **Cathet Cardiovasc Diagn** 1990 Jul;20(3):168–73

Approach to the patient with left main coronary artery stenosis. Kern MJ. **Cathet Cardiovasc Diagn** 1989 Nov; 18(3):181–2

Study of the performance of 5 French and 7 French catheters in coronary angiography: a functional comparison. Kohli RS, et al. **Cathet Cardiovasc Diagn** 1989 Nov;18(3):131–5

Clinical experience with percutaneous brachial coronary angiography in a "Judkins" laboratory. Mills RM, et al. **Cathet Cardiovasc Diagn** 1990 Apr;19(4):286–8

Ventricular fibrillation during coronary angiography: reduced incidence with nonionic contrast media. Missri J, et al. **Cathet Cardiovasc Diagn** 1990 Jan;19(1):4–7

Comparison of meglumine sodium diatrizoate, iopamidol, and

iobexol for coronary angiography and ventriculography. Murdock CJ, et al. **Cathet Cardiovasc Diagn** 1990 Mar; 19(3):179–83

Long-term follow-up of catheter-induced intimal injury from routine coronary angiography in moderately hypercholesterolemic minipigs. Pap JM. **Cathet Cardiovasc Diagn** 1990 Jun;20(2):139–49

Attenuation of pulsus alternans during coronary angiography. Ring ME, et al. **Cathet Cardiovasc Diagn** 1990 Jul; 20(3):193–5

Coronary artery pseudothrombus: angiographic filling defects caused by competitive collateral flow. Weinberg BA, et al. **Cathet Cardiovasc Diagn** 1990 Jul:20(3):196–9

How to maximize the safety of coronary and pulmonary angiography in patients receiving thrombolytic therapy. Meyerovitz MF. **Chest** 1990 Apr;97(4 Suppl):132S–135S

Animal model of coronary artery spasm–coronary thrombosis–acute myocardial infarction. A study on hemodynamics, EKG, coronary angiography, biochemistry and pathology. Jiang YQ, et al. **Chin Med J [Engl]** 1990 Mar;103(3):233–44

Correlations of blood lipids and lipoproteins with coronary artery disease documented by angiography. Qian XX, et al. **Chin Med J [Engl]** 1990 May;103(5):380–4

Relationship between clinical manifestations and coronary angiographic morphology in patients with coronary artery disease. Shen WF, et al. **Chin Med J [Engl]** 1989 Oct; 102(10):756–8

Ventricular sensory endings mediate reflex bradycardia during coronary arteriography in humans. Arrowood JA, et al. **Circulation** 1989 Nov;80(5):1293–300

Prediction of angiographic change in native human coronary arteries and aortocoronary bypass grafts. Lipid and nonlipid factors [see comments] Blankenhorn DH, et al. **Circulation** 1990 Feb;81(2):470–6 Comment in: Circulation 1990 Feb;81(2):694–6.

Coronary morphologic and clinical determinants of procedural outcome with angioplasty for multivessel coronary disease. Implications for patient selection. Multivessel Angioplasty Prognosis Study Group [see comments] Ellis SG, et al. **Circulation** 1990 Oct; 82(4):1193–202 Comment in: Circulation 1990 Oct;82(4):1516–8.

Automated quantitation of indexes of coronary lesion complexity. Comparison between patients with stable and unstable angina. Kalbfleisch SJ, et al. **Circulation** 1990 Aug; 82(2):439–47

Four-year follow-up study in patients with angina pectoris and normal coronary arteriograms ("syndrome X") [see comments] Opherk D, et al. **Circulation** 1989 Dec; 80(6):1610–6 Comment in: Circulation 1989 Dec;80(6):1909–11.

Serial angiographic assessment of coronary artery obstruction and collateral flow in acute myocardial infarction. Report from the second Mount Sinai–New York University Reperfusion Trial. Rentrop KP, et al. **Circulation** 1989 Nov; 80(5):1166–75

Can coronary angiography be justified as the initial step for evaluating patients with known or suspected coronary disease? An opinion. Conti CR. **Clin Cardiol** 1990 Feb; 13(2):67–8

Effects of intracoronary injection of ergonovine on angiographic normal coronary arteries: study of 108 consecutive patients. Fournier JA, et al. **Clin Cardiol** 1989 Oct;12(10):561–8

Management of acute non-Q-wave myocardial infarction: role of prophylactic pharmacotherapy and indications for predischarge coronary arteriography. Gibson RS. **Clin Cardiol** 1989 Jul;12(7 Suppl 3):III26–32 (35 ref.)

A multicenter randomized trial of ionic (ioxaglate) and nonionic (iopamidol) low-osmolality contrast agents in cardiac angiography. Klinke WP, et al. **Clin Cardiol** 1989 Dec;12(12):689–96

Is the iodine content of non-ionic contrast media for coronary angiography unnecessarily high? [letter] Furniss SS. **Clin Radiol** 1989 Sep;40(5):541–2

The development of symptomatology and functional condition in patients with negative or minimal findings on coronary vessels after 5 to 10 years. Barták K, et al. **Cor Vasa** 1989;31(6):458–66

Coronary artery stenosis in patients with valvular heart disease. Pluta W, et al. **Cor Vasa** 1989;31(6):451–7

Indications for coronary angiography: diagnosis and interventional procedures. Lackner K. **Curr Opin Radiol** 1989 Aug;1(2):153–8 (20 ref.)

Five years of angiographic and clinical follow-up after successful percutaneous transluminal coronary angioplasty. Guiteras P, et al. **Eur Heart J** 1989 Dec;10 Suppl G:42–8

Recognition of restenosis: can patients be defined in whom the exercise-ECG result makes angiographic restudy unnecessary? Kadel C, et al. **Eur Heart J** 1989 Dec;10 Suppl G:22–6

Results of repeat angiography up to eight years following percutaneous transluminal angioplasty. Kober G, et al. **Eur Heart J** 1989 Dec;10 Suppl G:49–53

Predictive value of computed tomographic determination of the patency rate of aortocoronary venous bypasses in relation to angiographic results. Mühlberger V, et al. **Eur Heart J** 1990 May;11(5):380–8

How critical is frame selection in quantitative coronary angiographic studies? Reiber JH, et al. **Eur Heart J** 1989 Nov;10 Suppl F:54–9

Coronary stenosis dilation by low dose intravenous nitroglycerin. Sievert H, et al. **Eur Heart J** 1989 Nov;10 Suppl F:134–6

Regional rates of myocardial fatty acid metabolism: comparison with coronary angiography and ventriculography. Schad N, et al. **Eur J Nucl Med** 1990; 16(4–6):205–12

Coronary arteriographic findings soon after non Q wave myocardial infarction. Parikh JA, et al. **Indian Heart J** 1989 Sep–Oct;41(5):280–3

Myocardial bridge (MB): an angiographic curiosity? Somanath HS, et al. **Indian Heart J** 1989 Sep–Oct; 41(5):296–300

Digital flashing tomosynthesis (DFTS)—a technique for three-dimensional coronary angiography. Stiel GM, et al. **Int J Card Imaging** 1989;5(1):53–61

The haemodynamic response to ST segment changes during coronary arteriography. Levy RD, et al. **Int J Cardiol** 1990 Mar;26(3):343–8

Total coronary arterial occlusion: real or apparent? Seth A, et al. **Int J Cardiol** 1989 Nov;25(2):235–7

Collateral circulation to the diagonal artery from the infundibular coronary artery in obstructive coronary arterial disease. Sharma S, et al. **Int J Cardiol** 1989 Oct; 25(1):134–6

Silent versus symptomatic myocardial ischemia during exercise testing: a comparison with coronary angiographic findings. Visser FC, et al. **Int J Cardiol** 1990 Apr;27(1):71–8

A prospective angiographic study of the coronary collateral circulation in coronary arterial disease. Vyssoulis G, et al. **Int J Cardiol** 1990 May;27(2):187–91

The enigma of syndrome X. Poole-Wilson PA, et al. **Int J Microcirc Clin Exp** 1989 Nov;8(4):423–32 (33 ref.)

Atypical angina in patients with coronary artery disease suggests panic disorder. Basha I, et al. **Int J Psychiatry Med** 1989;19(4):341–6

Microvascular angina and panic disorder. Roy-Byrne PP, et al. **Int J Psychiatry Med** 1989;19(4):315–25

Quantitative dual-energy coronary arteriography. Molloi SY, et al. **Invest Radiol** 1990 Aug;25(8):908–14

Measurement of distensibility of blood vessels using cineangiograms. Sugahara T, et al. **Invest Radiol** 1989 Sep; 24(9):672–7

Silent myocardial ischemia during daily activities: relationship to results of exercise testing and coronary angiography. Hinderliter AL, et al. **Isr J Med Sci** 1989 Sep;25(9):520–4 (22 ref.)

Quantification of coronary artery calcium using ultrafast computed tomography. Agatston AS, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):827–32

Accuracy of individual and panel visual interpretations of coronary arteriograms: implications for clinical decisions [see comments] Beauman GJ, et al. **J Am Coll Cardiol** 1990 Jul;16(1):108–13 Comment in: J Am Coll Cardiol 1990 Jul;16(1):114.

Arteriographic evaluation of small coronary arteries. Bruschke AV, et al. **J Am Coll Cardiol** 1990 Mar 15; 15(4):784–9

Chest pain with normal coronary angiograms: is the heart innocent or guilty? [comment] Cannon RO 3d. **J Am Coll Cardiol** 1990 Sep;16(3):596–8 Comment on: J Am Coll Cardiol 1990 Sep;16(3):586–95.

Description of a venous technique for selective coronary arteriography in newborns with d-transposition of the great arteries. Day RW, et al. **J Am Coll Cardiol** 1989 Nov 1; 14(5):1308–11

Increased myocardial perfusion at rest and diminished perfusion reserve in patients with angina and angiographically normal coronary arteries [see comments] Geltman EM, et al. **J Am Coll Cardiol** 1990 Sep; 16(3):586–95 Comment in: J Am Coll Cardiol 1990 Sep;16(3):596–8.

Decision analysis in clinical cardiology: when is coronary angiography required in aortic stenosis? Georgeson S, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):751–62

Determination of coronary flow reserve by digital angiography: validation of a practical method not requiring power injection or electrocardiographic gating [see comments] Gurley JC, et al. **J Am Coll Cardiol** 1990 Jul; 16(1):190–7 Comment in: J Am Coll Cardiol 1990 Jul;16(1):198–9.

Angiographic patterns of balloon inflation during percutaneous transluminal coronary angioplasty: role of pressure-diameter curves in studying distensibility and elasticity of the stenotic lesion and the mechanism of dilation [see comments] Hjemdahl-Monsen CE, et al. **J Am Coll Cardiol** 1990 Sep;16(3):569–75 Comment in: J Am Coll Cardiol 1990 Sep;16(3):576–7.

Percutaneous transluminal coronary angioplasty: is what we see what we get? [editorial; comment] Kleiman NS, et al. **J Am Coll Cardiol** 1990 Sep;16(3):576–7 Comment on: J Am Coll Cardiol 1990 Sep;16(3):569–75.

Assessment of "silent" restenosis and long-term follow-up after successful angioplasty in single vessel coronary artery disease: the value of quantitative exercise electrocardiography and quantitative coronary angiography. Laarman G, et al. **J Am Coll Cardiol** 1990 Sep;16(3):578–85

The value of angiography in the follow-up of coronary involvement in mucocutaneous lymph node syndrome (Kawasaki disease). Pahl E, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1318–25

Interpretation of coronary angiograms [editorial; comment] Ross AM. **J Am Coll Cardiol** 1990 Jul;16(1):114 Comment on: J Am Coll Cardiol 1990 Jul;16(1):108–13.

Exercise echocardiography and quantitative angiography: improved identification of physiologically significant coronary artery stenoses [comment] Vandenberg BF, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1052–4 Comment on: J Am Coll Cardiol 1990 Apr;15(5):1043–51.

Recurrent myocardial infarction in a young patient with normal coronary arteries. Sundaram U, et al. **J Assoc Physicians India** 1990 May;38(5):365–7

Effects of ionic and nonionic contrast media on bradyarrhythmia during coronary angiography: a comparison of Renografin-76, Hypaque-76, and Isovue-370. Piao ZE, et al. **J Lab Clin Med** 1990 Jan; 115(1):122–7

Panic disorder without fear in patients with angiographically normal coronary arteries. Beitman BD, et al. **J Nerv Ment Dis** 1990 May;178(5):307–12

Relationship between coronary risk factor and arteriographic feature of coronary atherosclerosis. Hiyamuta K, et al. **Jpn Circ J** 1990 Apr;54(4):442–7

Long-term angiographic follow-up results in patients undergoing percutaneous transluminal coronary angioplasty. Mikuriya Y, et al. **Jpn Circ J** 1989 Jul; 53(7):728–34

New trend of cardiac imaging—intravenous coronary arteriography by synchrotron radiation. Sugishita Y, et al. **Jpn Circ J** 1990 Mar;54(3):339–42

Audit of coronary angiography and bypass surgery. Gray D, et al. **Lancet** 1990 Jun 2;335(8701):1317–20

Angiographic patency study of anistreplase versus streptokinase in acute myocardial infarction. Hogg KJ, et al. **Lancet** 1990 Feb 3;335(8684):254–8

Diagnosis of coronary sinus diverticulum in Wolff-Parkinson-White syndrome using coronary angiography. Stamato N, et al. **PACE** 1989 Oct; 12(10):1589–91

Quantitative coronary cineangiogram analysis: a technical assessment. Abukhalil JM. **Radiol Technol** 1990 Jul–Aug; 61(6):467–71

Risk of thromboembolism during diagnostic and interventional cardiac procedures with nonionic contrast media. Hwang MH, et al. **Radiology** 1990 Feb;174(2):453–7

Pretransplant coronary arteriography for diabetic renal transplant recipients. Lorber MI, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1539–41

Encourages reports of complications [letter] Baird CL Jr. **Va Med** 1990 Jun;117(6):230

Assessment of the vasomotility of epicardial coronary arteries with quantitative coronary angiography. Jost S, et al. **Z Kardiol** 1989;78 Suppl 6:143–8 (29 ref.)

[Coronary arteriography in coronary heart diseases with angina pectoris (an analysis of 55 cases)] Jiang SL. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Jun;23(3):130–3 (Eng. Abstr.) **(Chi)**

[A correlative study of ECG and coronary arteriogram findings after acute myocardial infarction] Shen WF, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):268–7, 317 (Eng. Abstr.) **(Chi)**

[Monitoring of selective coronary angiography and the nursing care of arrhythmia] Wang HZ. **Chung Hua Hu Li Tsa Chih** 1989 Aug;24(8):459–60 **(Chi)**

[Relation of clinical manifestations and coronary morphology in patients with coronary heart disease] Shen WF. **Chung Hua I Hsueh Tsa Chih** 1989 Jun;69(6):332–4 **(Chi)**

[Observation and measurement of coronary arteries of goat] Yang KQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun;20(2):175–7 (Eng. Abstr.) **(Chi)**

[Relation of angina pectoris before myocardial infarct to coronarographic findings after thrombolytic therapy] Aschermann M, et al. **Cas Lek Cesk** 1990 Jun 8; 129(23):719–22 (Eng. Abstr.) **(Cze)**

[Are invasive studies advisable in evaluating heart valve diseases?] Bensaid J, et al. **Ann Cardiol Angeiol (Paris)** 1990 Jan;39(1):29–37 (25 ref.) (Eng. Abstr.) **(Fre)**

[Transluminal coronary angioplasty at the same time as or separate from coronarography. Comparative results] Crochet D, et al. **Ann Radiol (Paris)** 1989;32(5):375–80 (Eng. Abstr.) **(Fre)**

[Localized dilatation of the bronchi. A misunderstood etiology of coronaro-bronchial fistula] Abergel E, et al. **Arch Mal Coeur** 1990 Feb;83(2):271–4 (Eng. Abstr.) **(Fre)**

[An attempt to quantify myocardial ischemia by selective coronary arteriography: determination of a new score. An initial study] Amiel M, et al. **Arch Mal Coeur** 1990 Jan; 83(1):69–75 (Eng. Abstr.) **(Fre)**

[Efficacy and safety of ambulatory coronary angiography] Favereau X, et al. **Arch Mal Coeur** 1990 Feb;83(2):191–5 (Eng. Abstr.) **(Fre)**

[Myocardial infarction related to the practice of sports. clinical and coronary angiography apropos of 35 cases] François G, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:73–8 (Eng. Abstr.) **(Fre)**

[Noninvasive coronary angiography with synchrotron irradiation] Dix WR, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:79–80 **(Ger)**

[Roentgen pseudo-projections of a parametric model of the left ventricular myocardium] Lindenau JH, et al.

Biomed Tech (Berlin) 1989;34 Suppl:257–8 **(Ger)**
[Densitometry quantification of coronary angiograms using coronary muscle calibration following elimination of scattering and distortion errors] Solzbach U, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:68–9 **(Ger)**
[Coronary angiography and ventriculography] Kupper W, et al. **Internist (Berl)** 1990 May;31(5):341–9 (36 ref.) **(Ger)**
[Tl-201 myocardial SPECT in silent myocardial ischemia and angiographically proven coronary heart disease] Eber B, et al. **Wien Klin Wochenschr** 1989 Sep 15;101(17):574–9 (Eng. Abstr.) **(Ger)**
[Coronary aneurysm following Kawasaki syndrome] Engelhardt W, et al. **Z Kardiol** 1990 May;79(5):336–40 (Eng. Abstr.) **(Ger)**
[Is patient education using audiovisual methods helpful?] Herrmann KS, et al. **Z Kardiol** 1990 May;79(5):354–8 (Eng. Abstr.) **(Ger)**
[Rupture and fragmentation of a polyethylene terephthalate balloon catheter in a calcified coronary artery stenosis] Schräder R, et al. **Z Kardiol** 1990 Mar;79(3):199–202 (Eng. Abstr.) **(Ger)**
[Spontaneous coronary artery dissection: a rare cause of myocardial infarct] Werner GS, et al. **Z Kardiol** 1990 Jan; 79(1):32–6 (Eng. Abstr.) **(Ger)**
[Randomized comparison between gallopamil and diltiazem in angiography verified coronary heart disease] Zenker GD, et al. **Z Kardiol** 1989;78 Suppl 5:94–7 (Eng. Abstr.) **(Ger)**
[Non-Q myocardial infarct: physiopathologic, clinical and angiographic profile] Gei P, et al. **Cardiologia** 1989 Sep; 34(9):751–7 (71 ref.) **(Ita)**
[Proposal of a standardized graphic system for collecting coronary angiographic data. Processing with a personal computer] Bozzi G, et al. **G Ital Cardiol** 1989 Jul; 19(7):598–605 (Eng. Abstr.) **(Ita)**
[Angiographic aspects of unstable angina] Ippolito FA, et al. **Minerva Cardioangiol** 1989 Jul–Aug;37(7–8):355–64 (Eng. Abstr.) **(Ita)**
[Coronary artery dissection secondary to selective coronary angiography] Porcu M, et al. **Radiol Med (Torino)** 1990 Mar;79(3):175–7 (Eng. Abstr.) **(Ita)**
[Experiences with coronarography using digital technics] Ziosi A, et al. **Radiol Med (Torino)** 1989 Nov;78(5):478–84 (Eng. Abstr.) **(Ita)**
[Comparisons of images simultaneously documented by digital subtraction coronary arteriography and cine coronary arteriography] Kimura K, et al. **J Cardiol** 1988 Dec;18(4):889–97 (Eng. Abstr.) **(Jpn)**
[Coronary angiography in patients with U wave inversion during coronary artery spasm] Masuda T, et al. **J Cardiol** 1989 Sep;19(3):757–64 (Eng. Abstr.) **(Jpn)**
[Clinical significance of coronary vasospasm determined by coronary angiography] Ino T, et al. **J Cardiol Suppl** 1989; 22:87–9 **(Jpn)**
[Comparison of thallium perfusion and electrocardiographic findings at exercise thallium-201 scintigraphy with coronary arteriographic findings] Matsuo T, et al. **Kaku Igaku** 1989 Jun;26(6):763–71 (Eng. Abstr.) **(Jpn)**
[Clinical evaluation of coronary artery fistula and coronary artery-cardiac chamber shunt] Higuchi H, et al. **Kokyu To Junkan** 1990 Feb;38(2):159–63 (Eng. Abstr.) **(Jpn)**
[Two cases of primary artery dissection] Kawahara Y, et al. **Kokyu To Junkan** 1990 Mar;38(3):261–4 (Eng. Abstr.) **(Jpn)**
[A case of primary coronary artery dissection] Nishino M, et al. **Kokyu To Junkan** 1990 Jun;38(6):589–93 (Eng. Abstr.) **(Jpn)**
[Digital image process basic technology for measurement of vessel diameter using cineangiograms] Yanagihara Y, et al. **Kokyu To Junkan** 1990 May;38(5):431–4 **(Jpn)**
[Coronary artery bypass surgery with internal mammary artery grafts: clinical and angiographic results] Kitamura S, et al. **Kyobu Geka** 1989 Jul;42(8 Suppl):609–16 (Eng. Abstr.) **(Jpn)**
[Implications of preoperative angiography and coronary artery bypass grafting for patients with combined coronary artery and great vessels diseases] Kazui T, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1463–6 (Eng. Abstr.) **(Jpn)**
[The effects of contrast media on the cardiac conducting system in coronary angiography] Kawamori J. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Nov 25; 49(11):1372–81 (Eng. Abstr.) **(Jpn)**
[Clinical estimation of coronary risk factors with special reference to coronary arteriographic findings] Amioka H. **Nippon Ronen Igakkai Zasshi** 1990 Mar;27(2):206–13 (Eng. Abstr.) **(Jpn)**
[Measurement of shortening characteristics in human heart using biplane coronary cineangiograms] Ishikawa K. **Rinsho Byori** 1990 May;38(5):499–502 (Eng. Abstr.) **(Jpn)**
[Indices of left ventricular diastole in patients with unstable angina and angiographically documented collateral circulation] Witkowski A. **Kardiol Pol** 1989;32(1):19–26 (Eng. Abstr.) **(Pol)**
[Equilibrium radionuclide angiography in patients with previous myocardial infarct. Correlation with electrocardiogram and coronarography] Macieira-Coelho E, et al. **Acta Med Port** 1990 Mar–Apr;3(2):81–4 (Eng. Abstr.) **(Por)**
[Hemodynamic profile of patients with normal coronary cineangiography] Romão N, et al. **Arq Bras Cardiol** 1989 Jul;53(1):15–8 (Eng. Abstr.) **(Por)**
[Silent ischemia in patients with previous myocardial infarct. Correlation of Holter and coronarography] Carvalho M, et al. **Rev Port Cardiol** 1989 Dec;8(12):843–7 (Eng. Abstr.) **(Por)**
[Angiographic semeiotics and pathophysiology of congenital fistulas of the coronary arteries] Petrosian IuS, et al. **Grudn Khir** 1989 Nov-Dec;(6):23–31 (Eng. Abstr.) **(Rus)**
[Radiographic diagnosis of calcinosis of the coronary arteries in young patients] Tseluĭko VI, et al. **Kardiologiia** 1990 Mar;30(3):103–5 **(Rus)**
[Characteristics of the clinical manifestations of stenocardia in patients with ischemic heart disease, without myocardial infarct, in relation to the state of the coronary bed] Kuliev OA, et al. **Ter Arkh** 1990;62(4):52–8 (Eng. Abstr.) **(Rus)**
[Possibilities of Doppler echocardiography—will the results of heart catheterization and angiography remain as the "gold standards" in cardiology. I] Huml D. **Med Arh** 1987; 41(5):265–72 (Eng. Abstr.) **(Scr)**
[Coronary angioplasty performed at the same time as diagnostic coronarography] Alfonso F, et al. **Rev Esp Cardiol** 1989 Dec;42(10):645–52 (Eng. Abstr.) **(Spa)**
[Utility of myocardial scintigraphy with Tc-99m methoxy-isobutyl-isonitrile in the diagnosis of coronary disease] Mora J, et al. **Rev Esp Cardiol** 1990 Jan;43(1):18–22 (Eng. Abstr.) **(Spa)**
[Acute myocardial infarction secondary to non-penetrating thoracic trauma] Ruiz Ros JA, et al. **Rev Esp Cardiol** 1990 Jan;43(1):53–5 (Eng. Abstr.) **(Spa)**

RADIONUCLIDE IMAGING

Decreased coronary vasodilatory capacity in hypertrophic cardiomyopathy determined by split-dose thallium-dipyridamole myocardial scintigraphy. Koga Y, et al. **Am J Cardiol** 1990 May 1;65(16):1134–9
Detection of human collateral circulation by vasodilation-thallium-201 tomography. Nienaber CA, et al. **Am J Cardiol** 1990 Apr 15;65(15):991–8
Supine exercise electrocardiography compared with exercise radionuclide angiography in noninvasive identification of severe coronary artery disease. Gibbons RJ, et al. **Ann Intern Med** 1990 May 15;112(10):743–9
Evaluation of myocardial perfusion in man. Workshop. Capri, April 24/25, 1987. Proceedings. **Bibl Cardiol** 1989; (44):1–202
Exercise thallium-201 scintigraphy in the localization of myocardial ischaemia. Korkeila P, et al. **Clin Physiol** 1989 Dec;9(6):555–65
Kinetics of copper-PTSM in isolated hearts: a novel tracer for measuring blood flow with positron emission tomography. Shelton ME, et al. **J Nucl Med** 1989 Nov; 30(11):1843–7
[Analysis using scintigraphy with thallium-201 of the perfusion picture before and after myocardial revascularization] Astorri E, et al. **Cardiologia** 1989 Aug; 34(8):701–6 (Eng. Abstr.) **(Ita)**

SURGERY

Early clinical results of long coronary arteriotomy, endarterectomy and reconstruction combined with multiple bypass grafting for severe coronary artery disease. Sommerhaug RG, et al. **Am J Cardiol** 1990 Sep 15; 66(7):651–9
Pre-bypass myocardial ischaemia in patients undergoing coronary artery surgery. Davies MJ, et al. **Anaesth Intensive Care** 1990 Feb;18(1):53–7
Nicardipine for preservation of myocardial metabolism and function in patients undergoing coronary artery surgery. Koolen JJ, et al. **Anesthesiology** 1989 Oct;71(4):508–18
Hypertensive crisis during coronary vessel surgery. van Wezel HB. **Ann Fr Anesth Reanim** 1989;8(5):585–6, 545–6 **(Eng, Fre)**
Circumflex exposure using a cardiac sling. Galvin IF, et al. **Ann Thorac Surg** 1990 May;49(5):833–4
A comparative study of intraoperative angioscopy and completion arteriography following femorodistal bypass. Baxter BT, et al. **Arch Surg** 1990 Aug;125(8):997–1002
Continuous rt-PA infusion as a salvage strategy to maintain patency of the infarct artery; safety of high cumulative dose and subsequent emergency coronary artery angioplasty and bypass surgery. Barbash GI, et al. **Biomed Pharmacother** 1990;44(3):185–9
Anaesthesia for emergency coronary artery surgery. Viljoen JF, et al. **Br J Anaesth** 1974 Dec;46(12):953–60
Morphometric evaluation of the time course of right ventricular hypertrophy after left coronary artery ligation in rats. Spadaro J, et al. **Braz J Med Biol Res** 1989; 22(4):517–22
Pharmacokinetics and cardiovascular dynamics of pipecuronium bromide during coronary artery surgery. Wierda JM, et al. **Can J Anaesth** 1990 Mar;37(2):183–91
Efficacy and safety of coronary balloon angioplasty and directional atherectomy [editorial; comment] Hillis LD. **Circulation** 1990 Jul;82(1):305–7 Comment on: Circulation 1990 Jul:82(1):69–79.
Protection of the heart by nifedipine cardioplegia during coronary artery surgery. A clinical-haemodynamic evaluation. Donegani E, et al. **Eur J Cardiothorac Surg** 1988;2(6):442–7
Asymptomatic carotid bruit in patients who undergo coronary artery surgery. Skotnicki SH, et al. **Eur J Cardiothorac Surg** 1987;1(1):11–5
From flintstone to diamond blade: a new multifunctional instrument for use in coronary surgery. Vincent JG, et al. **Eur J Cardiothorac Surg** 1989;3(4):373–5
Coronary excimer laser angioplasty: reduced complications and indium-111 platelet accumulation compared with thermal laser angioplasty. Sanborn TA, et al. **J Am Coll Cardiol** 1990 Aug;16(2):502–6
Postoperative evaluation after end-to-end subclavian-left coronary artery anastomosis in anomalous left coronary artery. Montigny M, et al. **J Thorac Cardiovasc Surg** 1990 Aug;100(2):270–3
Trends in coronary artery reoperation. Loop FD. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep;37 Suppl:59
Selective retrograde coronary venous perfusion: an encouraging approach documented by microsphere flow studies. Hochberg MS, et al. **Surg Forum** 1978;29:261–2
Delayed surgical removal of a guide-wire fragment following coronary angioplasty. Döring V, et al. **Thorac Cardiovasc Surg** 1990 Feb;38(1):36–7
[A modified technic for coronary to graft anastomosis and coronary perfusion in Bentall operation] Ogawa K, et al. **Kyobu Geka** 1989 Nov;42(12):995–9 (Eng. Abstr.) **(Jpn)**
[Current topics on coronary artery surgery: clinical experience of laser application] Okada M, et al. **Kyobu Geka** 1989 Jul;42(8 Suppl):617–29 (Eng. Abstr.) **(Jpn)**
[A case of aortitis syndrome with left coronary ostial stenosis and aortic regurgitation treated by transaortic coronary endarterectomy and aortic valve replacement] Katoh T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr; 38(4):667–71 (Eng. Abstr.) **(Jpn)**
[A successful treatment of Cabrol's procedure for annuloaortic ectasis with an acute aortic dissection (Stanford type A)] Ohhira M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug;37(8):1590–6 (Eng. Abstr.) **(Jpn)**
[Surgery of the coronary vessels in the elderly (letter)] **Rev Port Cardiol** 1990 Jan;9(1):71–2 **(Por)**

ULTRASTRUCTURE

Morphometric analysis of coronary capillaries during physiologic myocardial growth and induced cardiac hypertrophy: a review. Anversa P, et al. **Int J Microcirc Clin Exp** 1989 Nov;8(4):353–63 (44 ref.)
Late effects in mouse heart after 60Co gamma-irradiation of the brain: an ultrastructural study. Yang VC, et al. **Int J Radiat Biol** 1990 Jun;57(6):1225–41
Effect of hypoxia on endothelial morphology and interendothelial junctions in the isolated perfused rat heart. Ward BJ, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1337–47
Characterization of porcine coronary muscarinic receptors. Entzeroth M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 May; 341(5):432–8
["Circular bands" on the casts of the microcirculatory bed of the human heart in ontogenesis (data from scanning electron microscopy of corrosive casts)] Makovetskiĭ VD, et al. **Arkh Anat Gistol Embriol** 1990 Mar;98(3):22–7 (Eng. Abstr.) **(Rus)**
[Ultrastructure of myocardial capillaries in chronic ischemic heart disease] Shereme'eva GF, et al. **Kardiologiia** 1989 Aug;29(8):62–5 (Eng. Abstr.) **(Rus)**

CORONAVIRIDAE

CLASSIFICATION

Recommendations of the Coronavirus Study Group for the nomenclature of the structural proteins, mRNAs, and genes of coronaviruses. Cavanagh D, et al. **Virology** 1990 May; 176(1):306–7 (9 ref.)

DRUG EFFECTS

Effectiveness of three antiviral agents against FIP virus in vitro. Barlough JE, et al. **Vet Rec** 1990 Jun 2;126(22):556–8

GENETICS

Nucleotide sequence of the gene encoding the membrane protein of human coronavirus 229 E. Raabe T, et al. **Arch Virol** 1989;107(3–4):323–8
Comparisons of the genomic RNA of Arkansas DPI embryonic passages 10 and 100, Australian T, and Massachusetts 41 strains of infectious bronchitis virus. Butcher GD, et al. **Avian Dis** 1990 Apr–Jun;34(2):253–9
Nucleotide sequence of the glycoprotein S gene of bovine enteric coronavirus and comparison with the S proteins of two mouse hepatitis virus strains. Boireau P, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):487–92
Primary Structure of the S peplomer gene of bovine coronavirus and surface expression in insect cells. Parker MD, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1885
Primary structure of the S peplomer gene of bovine coronavirus and surface expression in insect cells [published erratum appears in J Gen Virol 1990 Aug;71(Pt 8):1885] Parker MD, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):263–70
Nucleotide sequence of the gene encoding the spike glycoprotein of human coronavirus HCV 229E. Raabe T,

et al. J Gen Virol 1990 May;71 (Pt 5):1065–73
Identification of a new membrane-associated polypeptide specified by the coronavirus infectious bronchitis virus. Smith AR, et al. J Gen Virol 1990 Jan;71 (Pt 1):3–11
Characterization of a nucleic acid probe for the diagnosis of human coronavirus 229E infections. Myint S, et al. J Med Virol 1990 Jun;31(2):165–72
Antigenic and genomic relationships among turkey and bovine enteric coronaviruses. Dea S, et al. J Virol 1990 Jun;64(6):3112–8
Bovine coronavirus mRNA replication continues throughout persistent infection in cell culture. Hofmann MA, et al. J Virol 1990 Sep;64(9):4108–14
Structure and orientation of expressed bovine coronavirus hemagglutinin–esterase protein. Kienzle TE, et al. J Virol 1990 Apr;64(4):1834–8
High-frequency leader sequence switching during coronavirus defective interfering RNA replication. Makino S, et al. J Virol 1989 Dec;63(12):5285–92
Expression and secretion of the bovine coronavirus hemagglutinin–esterase glycoprotein by insect cells infected with recombinant baculoviruses. Parker MD, et al. J Virol 1990 Apr;64(4):1625–9
Intracellular transport of recombinant coronavirus spike proteins: implications for virus assembly. Vennema H, et al. J Virol 1990 Jan;64(1):339–46
Genetic basis for the pathogenesis of transmissible gastroenteritis virus. Wesley RD, et al. J Virol 1990 Oct; 64(10):4761–6
Nucleotide and amino acid sequence of the S1 subunit of the spike glycoprotein of avian infectious bronchitis virus, strain D3896. Koch G, et al. Nucleic Acids Res 1990 May 25;18(10):3063–4
The carboxyl-terminal part of the putative Berne virus polymerase is expressed by ribosomal frameshifting and contains sequence motifs which indicate that toro- and coronaviruses are evolutionarily related. Snijder EJ, et al. Nucleic Acids Res 1990 Aug 11;18(15):4535–42
Nucleotide sequence of the bovine enteric coronavirus BECV F15 mRNA 5 and mRNA 6 unique regions. Woloszyn N, et al. Nucleic Acids Res 1990 Mar 11; 18(5):1303
The E1 glycoprotein of an avian coronavirus is targeted to the cis Golgi complex. Machamer CE, et al. Proc Natl Acad Sci U S A 1990 Sep;87(18):6944–8
Molecular biology of avian infectious bronchitis virus. Boursnell ME, et al. Prog Vet Microbiol Immunol 1989; 5:65–82 (81 ref.)
Molecular biology of transmissible gastroenteritis virus. Laude H, et al. Vet Microbiol 1990 Jun;23(1–4):147–54 (24 ref.)
Sequence and expression analysis of potential nonstructural proteins of 4.9, 4.8, 12.7, and 9.5 kDa encoded between the spike and membrane protein genes of the bovine coronavirus. Abraham S, et al. Virology 1990 Aug; 177(2):488–95
Deduced sequence of the bovine coronavirus spike protein and identification of the internal proteolytic cleavage site. Abraham S, et al. Virology 1990 May;176(1):296–301
Sequence analysis of the membrane protein gene of human coronavirus 229E. Jouvenne P, et al. Virology 1990 Feb; 174(2):608–12
Antigenic homology among coronaviruses related to transmissible gastroenteritis virus. Sánchez CM, et al. Virology 1990 Feb;174(2):410–7

GROWTH & DEVELOPMENT

Cell culture propagation of a coronavirus isolated from cows with winter dysentery. Benfield DA, et al. J Clin Microbiol 1990 Jun;28(6):1454–7
Persistence of sialodacryoadenitis virus in athymic rats. Weir EC, et al. Lab Anim Sci 1990 Mar;40(2):138–43
The multiplication of transmissible gastroenteritis viruses in several cell lines originated from porcine kidney and effects of trypsin on the growth of the viruses. Honda E, et al. Nippon Juigaku Zasshi 1990 Apr;52(2):217–24
Plaque assay and propagation in rat cell line LBC cells of rat coronavirus and 5 strains of sialodacryoadenitis virus. Hirano N. Zentralbl Veterinarmed [B] 1990 Mar;37(2):91–6
[Retinoic acid modification of cell culture used for reproduction of enteropathogenic viruses] Tatskaia VN, et al. Biull Eksp Biol Med 1989 Jul;108(7):93–5 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Characterization and reactivity of monoclonal antibodies to the Miller strain of transmissible gastroenteritis virus of swine. Zhu XL, et al. Am J Vet Res 1990 Feb;51(2):232–8
A model for determining immunogenic relationships between avian infectious bronchitis viruses. Arvidson Y, et al. Arch Virol 1990;111(3–4):227–38
Epitope mapping and the detection of transmissible gastroenteritis viral proteins in cell culture using biotinylated monoclonal antibodies in a fixed-cell ELISA. Simkins RA, et al. Arch Virol 1989;107(3–4):179–90
Avian infectious bronchitis: cross-protection studies using different Australian subtypes. Endo-Munoz LB, et al. Aust Vet J 1989 Nov;66(11):345–8
A fluorescence test in allantoic cells for the detection of infectious bronchitis virus. Endo-Munoz LB, et al. Aust Vet J 1989 Oct;66(10):338–40
Hemorrhagic enteritis of turkeys: influence of maternal antibody and age at exposure. Fadly AM, et al. Avian Dis 1989 Oct–Dec;33(4):778–86
Immune response to oil-emulsion vaccines with single or mixed antigens of Newcastle disease, avian influenza, and infectious bronchitis. Xie ZX, et al. Avian Dis 1990 Jan–Mar;34(1):154–62
Detection of infectious bronchitis virus antigen from experimentally infected chickens by indirect immunofluorescent assay with monoclonal antibody. Yagyu K, et al. Avian Dis 1990 Apr–Jun;34(2):246–52
An enzyme-linked immunosorbent assay using canine coronavirus-infected CRFK cells as antigen for detection of anti-coronavirus antibody in cat. Mochizuki M, et al. Comp Immunol Microbiol Infect Dis 1989;12(4):139–46
Detection of antibody to avian viruses in human populations. Pedersden KA, et al. Epidemiol Infect 1990 Jun; 104(3):519–25
Localization of antigenic sites of the E2 glycoprotein of transmissible gastroenteritis coronavirus. Correa I, et al. J Gen Virol 1990 Feb;71 (Pt 2):271–9
Four major antigenic sites of the coronavirus transmissible gastroenteritis virus are located on the amino-terminal half of spike glycoprotein S. Delmas B, et al. J Gen Virol 1990 Jun;71 (Pt 6):1313–23
Analysis of an immunodominant region of infectious bronchitis virus. Kusters JG, et al. J Immunol 1989 Oct 15;143(8):2692–8
Kinetics of the in vitro antibody response to transmissible gastroenteritis (TGE) virus from pig mesenteric lymph node cells, using the ELISASPOT and ELISA tests. Berthon P, et al. J Immunol Methods 1990 Aug 7; 131(2):173–82
Analysis and simulation of a neutralizing epitope of transmissible gastroenteritis virus. Posthumus WP, et al. J Virol 1990 Jul;64(7):3304–9
Serologic survey for transmissible gastroenteritis virus neutralizing antibodies in selected feral and domestic swine sera in the southern United States. Woods RD, et al. J Wildl Dis 1990 Jul;26(3):420–2
Infection of SDAV-immune rats with SDAV and rat coronavirus. Weir EC, et al. Lab Anim Sci 1990 Jul; 40(4):363–6
Enzyme-linked immunosorbent assay for the detection of infectious bronchitis virus (IBV) antigen with monoclonal antibody. Nagano H, et al. Nippon Juigaku Zasshi 1990 Jun;52(3):657–9
Lactogenic immunity to transmissible gastroenteritis (TGE) of swine induced by the attenuated Nouzilly strain of TGE virus: passive protection of piglets and detection of serum and milk antibody classes by ELISA. Bernard S, et al. Vet Immunol Immunopathol 1990 Jan;24(1):37–47
The effect of interferon induction in newborn piglets on the humoral immune response to oral vaccination with transmissible gastroenteritis virus. Derbyshire JB, et al. Vet Immunol Immunopathol 1990 Mar;24(3):227–34
Enzyme-linked immunosorbent assay for the detection of porcine epidemic diarrhea coronavirus antibodies in swine sera. Hofmann M, et al. Vet Microbiol 1990 Jan; 21(3):263–73
Blood tests for FIP [letter; comment] Sparkes AH, et al. Vet Rec 1990 Mar 3;126(9):225 Comment on: Vet Rec 1990 Feb 10;126(6):150.
Sows infected in pregnancy with porcine respiratory coronavirus show no evidence of protecting their sucking piglets against transmissible gastroenteritis. Paton DJ, et al. Vet Res Commun 1990;14(4):329–37
Comparisons of the structural proteins of avian infectious bronchitis virus as determined by western blot analysis. Sneed LW, et al. Viral Immunol 1989 Fall;2(3):221–7
Antigenic homology among coronaviruses related to transmissible gastroenteritis virus. Sánchez CM, et al. Virology 1990 Feb;174(2):410–7
Mechanisms of transmissible gastroenteritis coronavirus neutralization. Suñé C, et al. Virology 1990 Aug; 177(2):559–69
Rapid diagnosis of TGEV-like coronavirus in fattened pigs by indirect immunofluorescence labelling in nasal cells. Onno M, et al. Zentralbl Veterinarmed [B] 1989 Oct; 36(8):629–34
Screening for antibodies against infectious bronchitis virus: specificity of the haemagglutination inhibition test. Toro H, et al. Zentralbl Veterinarmed [B] 1990 Jun;37(4):254–6
[In vitro humoral response against the transmissible gastroenteritis virus: presentation of the antigen by the epithelial cells of the intestine] Bernard S, et al. Ann Rech Vet 1989;20(3):375–6 (Fre)
[Research on antibodies against BHV-1, BHV-2, BHV-4, BVD-MD virus, bovine adenovirus A and B, rotavirus and coronavirus in cattle in western Zaire: complementary results] Eyanga E, et al. Rev Elev Med Vet Pays Trop 1989; 42(2):155–61 (Eng. Abstr.) (Fre)
[The detection of antibodies to transmissive gastroenteritis of swine virus by a passive hemagglutination reaction] Mikhallova EG, et al. Mikrobiol Zh 1986 Jul–Aug; 48(4):79–80 (Eng. Abstr.) (Rus)
[Subunit components of transmissive gastroenteritis virus of swine: preparing purified substances and assessing antigenic properties] Rukhadze GG, et al. Vopr Virusol 1989 May–Jun;34(3):319–25 (Eng. Abstr.) (Rus)
[The prevalence of antibodies to influenza virus and respiratory coronavirus in fattening pigs in Spain] Yus E, et al. Zentralbl Veterinarmed [B] 1989 Sep;36(7):551–6 (Eng. Abstr.) (Spa)

ISOLATION & PURIFICATION

Demonstration of feline corona virus (FCV) antigen in organs of cats suspected of feline infectious peritonitis (FIP) disease. Hök K. APMIS 1990 Jul;98(7):659–64
Epidemiological study of enteric coronavirus excretion by an enzyme-linked immunosorbent assay. Leechanachai P, et al. J Med Assoc Thai 1989 Aug;72(8):452–7
Coronavirus-like particles in adults in Melbourne, Australia. Marshall JA, et al. J Med Virol 1989 Dec;29(4):238–43
Detection of human coronavirus 229E in nasal washings using RNA:RNA hybridisation. Myint S, et al. J Med Virol 1989 Sep;29(1):70–3
Coronavirus-like virions associated with a wasting syndrome in guinea pigs. Jaax GP, et al. Lab Anim Sci 1990 Jul; 40(4):375–8
Detection of bovine enteric coronavirus in clinical specimens by hybridization with cDNA probes. Verbeek A, et al. Mol Cell Probes 1990 Apr;4(2):107–20
Purification of infectious bronchitis coronavirus by Sephacryl S-1000 gel chromatography. Nagano H, et al. Vet Microbiol 1989 Dec;21(2):115–23
[Isolation of coronaviruses in cell culture from nasal swab samples of calves with respiratory tract diseases in the Federal Republic of Germany] Jiménez C, et al. Zentralbl Veterinarmed [B] 1989 Oct;36(8):635–8 (Eng. Abstr.) (Ger)

METABOLISM

Appearance of pH-dependent cell fusions by transmissible gastroenteritis (TGE) virus. Honda E, et al. Nippon Juigaku Zasshi 1990 Aug;52(4):839–41
Hemagglutinating encephalomyelitis virus attaches to N-acetyl-9-O-acetylneuraminic acid-containing receptors on erythrocytes: comparison with bovine coronavirus and influenza C virus. Schultze B, et al. Virus Res 1990 Jun; 16(2):185–94

PATHOGENICITY

Protection afforded infectious bronchitis virus-vaccinated sentinel chickens raised in a commercial environment. Gelb J Jr, et al. Avian Dis 1989 Oct–Dec;33(4):764–9
Effect of pH and temperature on the infectivity of human coronavirus 229E. Lamarre A, et al. Can J Microbiol 1989 Oct;35(10):972–4
Experimental infection of pigs with porcine hemagglutinating encephalomyelitis virus. Hirahara T, et al. Nippon Juigaku Zasshi 1989 Aug;51(4):827–30

PHYSIOLOGY

Characterization of a temperature sensitive feline infectious peritonitis coronavirus. Christianson KK, et al. Arch Virol 1989;109(3–4):185–96
Characteristics of Parker's rat coronavirus (PRC) replicated in L-2 cells. Percy DH, et al. Arch Virol 1990; 112(3–4):195–202
Induction of the 2-5A system by interferon and transmissible gastroenteritis virus. Bosworth BT, et al. J Interferon Res 1989 Dec;9(6):731–9
Characterization of blood mononuclear cells producing IFN alpha following induction by coronavirus-infected cells (porcine transmissible gastroenteritis virus). Charley B, et al. Res Immunol 1990 Feb;141(2):141–51
Sites of replication of a porcine respiratory coronavirus related to transmissible gastroenteritis virus. Cox E, et al. Res Vet Sci 1990 Mar;48(2):165–9
Intestinal replication of a porcine respiratory coronavirus closely related antigenically to the enteric transmissible gastroenteritis virus. Cox E, et al. Vet Microbiol 1990 Jun; 23(1–4):237–43
Potentiation of platelet responses in vitro by feline infectious peritonitis virus. Boudreaux MK, et al. Vet Pathol 1990 Jul;27(4):261–8

CORONAVIRUS INFECTIONS

[Acute respiratory disease caused by coronaviruses] Hrušková J, et al. Cas Lek Cesk 1989 Mar 24;128(13):396–8 (Eng. Abstr.) (Cze)

COMPLICATIONS

Opportunistic infections with coronavirus-like particles in patients infected with the human immunodeficiency virus? Eis-Hübinger AM, et al. Int J Med Microbiol 1989 Sep; 271(3):351–5
Murine coronavirus induces an acute and long-lasting disease of the retina. Robbins SG, et al. Lab Invest 1990 Apr; 62(4):417–26

DIAGNOSIS

Characterization of a nucleic acid probe for the diagnosis of human coronavirus 229E infections. Myint S, et al. J Med Virol 1990 Jun;31(2):165–72
[Diagnosis of coronavirus infection] Kawana R, et al. Nippon Rinsho 1990 Feb;48 Suppl:316–9 (Jpn)

DRUG THERAPY

The effect of intranasal nedocromil sodium on viral upper respiratory tract infections in human volunteers. Barrow GI, et al. **Clin Exp Allergy** 1990 Jan;20(1):45–51

METABOLISM

Expression of viral and myelin gene transcripts in a murine CNS demyelinating disease caused by a coronavirus. Jordan CA, et al. **GLIA** 1989;2(5):318–29

MICROBIOLOGY

Characterization of a temperature sensitive feline infectious peritonitis coronavirus. Christianson KK, et al. **Arch Virol** 1989;109(3–4):185–96

Vacuolar degeneration in mice infected with a coronavirus JHM–CC strain. Tsukamoto T, et al. **Neurology** 1990 Jun; 40(6):904–10

Identification of the spinal cord as a major site of persistence during chronic infection with a murine coronavirus. Perlman S, et al. **Virology** 1990 Apr;175(2):418–26

PREVENTION & CONTROL

Effect of interferon or Propionibacterium acnes on the course of experimentally induced feline infectious peritonitis in specific–pathogen–free and random–source cats. Weiss RC, et al. **Am J Vet Res** 1990 May;51(5):726–33

Protection from lethal coronavirus infection by affinity–purified spike glycoprotein of murine hepatitis virus, strain A59. Daniel C, et al. **Virology** 1990 Jan; 174(1):87–94

VETERINARY

Evaluation of antithrombin–III activity as a coindicator of disseminated intravascular coagulation in cats with induced feline infectious peritonitis virus infection. Boudreaux MK, et al. **Am J Vet Res** 1989 Nov;50(11):1910–3

Demonstration of feline corona virus (FCV) antigen in organs of cats suspected of feline infectious peritonitis (FIP) disease. Hök K. **APMIS** 1990 Jul;98(7):659–64

Demonstration of feline infectious peritonitis virus in conjunctival epithelial cells from cats. A simple and reliable method for clinical veterinary virology screening. Hök K. **APMIS** 1989 Sep;97(9):820–4

Avian infectious bronchitis: cross–protection studies using different Australian subtypes. Endo–Munoz LB, et al. **Aust Vet J** 1989 Nov;66(11):345–8

An outbreak of nephropathogenic H13 infectious bronchitis in commercial broilers. Butcher GD, et al. **Avian Dis** 1989 Oct–Dec;33(4):823–6

Detection of infectious bronchitis virus antigen from experimentally infected chickens by indirect immunofluorescent assay with monoclonal antibody. Yagyu K, et al. **Avian Dis** 1990 Apr–Jun;34(2):246–52

Detection of coronavirus–like particles from mink with epizootic catarrhal gastroenteritis. Gorham JR, et al. **Can J Vet Res** 1990 Jun;54(3):383–4

An enzyme–linked immunosorbent assay using canine coronavirus–infected CRFK cells as antigen for detection of anti–coronavirus antibody in cat. Mochizuki M, et al. **Comp Immunol Microbiol Infect Dis** 1989;12(4):139–46

Cell culture propagation of a coronavirus isolated from cows with winter dysentery. Benfield DA, et al. **J Clin Microbiol** 1990 Jun;28(6):1454–7

IL–6 activity in feline infectious peritonitis. Goitsuka R, et al. **J Immunol** 1990 Apr 1;144(7):2599–603

Prevalence and implications of feline coronavirus infections of captive and free–ranging cheetahs (Acinonyx jubatus). Heeney JL, et al. **J Virol** 1990 May;64(5):1964–72

Early death after feline infectious peritonitis virus challenge due to recombinant vaccinia virus immunization. Vennema H, et al. **J Virol** 1990 Mar;64(3):1407–9

Duration of protection from reinfection following exposure to sialodacryoadenitis virus in Wistar rats. Percy DH, et al. **Lab Anim Sci** 1990 Mar;40(2):144–9

Influence of viral infections on body weight, survival, and tumor prevalence in Fischer 344/NCr rats on two–year studies. Rao GN, et al. **Lab Anim Sci** 1989 Sep;39(5):389–93

Persistence of sialodacryoadenitis virus in athymic rats. Weir EC, et al. **Lab Anim Sci** 1990 Mar;40(2):138–43

Infection of SDAV–immune rats with SDAV and rat coronavirus. Weir EC, et al. **Lab Anim Sci** 1990 Jul; 40(4):363–6

Experimental infection of pigs with porcine hemagglutinating encephalomyelitis virus. Hirahara T, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):827–30

Order of exposure to high dietary calcium and gray strain infectious bronchitis virus alters renal function and the incidence of urolithiasis. Glahn RP, et al. **Poult Sci** 1989 Sep;68(9):1193–204

Rotavirus and coronavirus infections in animals. Babiuk LA, et al. **Prog Vet Microbiol Immunol** 1985;1:80–120 (242 ref.)

Sites of replication of a porcine respiratory coronavirus related to transmissible gastroenteritis virus. Cox E, et al. **Res Vet Sci** 1990 Mar;48(2):165–9

Evaluation of immunity to feline infectious peritonitis in cats with cutaneous viral–induced delayed hypersensitivity. Weiss RC, et al. **Vet Immunol Immunopathol** 1989 Jul; 21(3–4):293–309

Natural infection with the porcine respiratory coronavirus induces protective lactogenic immunity against transmissible gastroenteritis. Bernard S, et al. **Vet Microbiol** 1989 Nov;21(1):1–8

Intestinal replication of a porcine respiratory coronavirus closely related antigenically to the enteric transmissible gastroenteritis virus. Cox E, et al. **Vet Microbiol** 1990 Jun; 23(1–4):237–43

A longitudinal study of bovine coronavirus enteric and respiratory infections in dairy calves in two herds in Ohio. Heckert RA, et al. **Vet Microbiol** 1990 Apr;22(2–3):187–201

Enzyme–linked immunosorbent assay for the detection of porcine epidemic diarrhea coronavirus antibodies in swine sera. Hofmann M, et al. **Vet Microbiol** 1990 Jan; 21(3):263–73

Enhanced platelet reactivity in cats experimentally infected with feline infectious peritonitis virus. Boudreaux MK, et al. **Vet Pathol** 1990 Jul;27(4):269–73

Control of feline coronavirus infection in kittens. Addie DD, et al. **Vet Rec** 1990 Feb 17;126(7):164

Winter dysentery in adult dairy cattle. Fleetwood AJ, et al. **Vet Rec** 1989 Nov 25;125(22):553–4

Infectious bronchitis in laying fowls [letter] Grattan DA. **Vet Rec** 1968 Aug 10;83(6):157

Concurrent cryptosporidium and coronavirus infections in an Arabian foal with combined immunodeficiency syndrome. Mair TS, et al. **Vet Rec** 1990 Feb 10; 126(6):127–30

Rapid diagnosis of TGEV–like coronavirus in fattened pigs by indirect immunofluorescence labelling in nasal cells. Onno M, et al. **Zentralbl Veterinarmed [B]** 1989 Oct; 36(8):629–34

Screening for antibodies against infectious bronchitis virus: specificity of the haemagglutination inhibition test. Toro H, et al. **Zentralbl Veterinarmed [B]** 1990 Jun;37(4):254–6

Disorders induced by the experimental infection of pigs with the porcine respiratory coronavirus (P.R.C.V.). Vannier P. **Zentralbl Veterinarmed [B]** 1990 May;37(3):177–80

[Feline immunodeficiency virus in Switzerland: clinical aspects and epidemiology in comparison with feline leukemia virus and coronaviruses] Lutz H, et al. **Schweiz Arch Tierheilkd** 1990;132(5):217–25 (Eng. Abstr.) (Ger)

[Isolation of coronaviruses in cell culture from nasal swab samples of calves with respiratory tract diseases in the Federal Republic of Germany] Jiménez C, et al. **Zentralbl Veterinarmed [B]** 1989 Oct;36(8):635–8 (Eng. Abstr.) (Ger)

CORONERS AND MEDICAL EXAMINERS

Incidence of HIV antibody–positive eye/cornea donors in hospital versus medical examiner cases. Danneffel MB, et al. **Cornea** 1990 Jul;9(3):271–2

Chemical toxicology for the coroner. Tormey WP, et al. **Hum Toxicol** 1989 Sep;8(5):375–9

Medical examiner/coroner records: uses and limitations in occupational injury epidemiologic research. Conroy C, et al. **J Forensic Sci** 1990 Jul;35(4):932–7

An epidemiologic and histopathological study of sudden cardiac death in Osaka Medical Examiner's Office. Matoba R, et al. **Jpn Circ J** 1989 Dec;53(12):1581–8

The medical examiner and euthanasia [letter] Jentzen JM. **Wis Med J** 1989 Aug;88(8):9–10

HISTORY

The coroner—12th and 13th century development of the office. Hill IR. **Med Sci Law** 1990 Apr;30(2):133–7

LEGISLATION & JURISPRUDENCE

Peer review for medical examiners [letter] Nelson ME. **Am J Forensic Med Pathol** 1990 Jun;11(2):180–1

Anniversary discourse: the Office of the Chief Medical Examiner. Hirsch CS. **Bull N Y Acad Med** 1989 Oct; 65(8):821–27

STANDARDS

Coroners and allegations of lack of care, UK and Hong Kong. Brahams D. **Lancet** 1990 Sep 1;336(8714):559–60

Murder most foul. Something is rotten in the state of North Carolina. Goldstein J. **N C Med J** 1990 May;51(5):230–4; discussion 236–7

CORPORA ALLATA

CYTOLOGY

Morphometric analysis of corpus allatum cells in adult females of three cockroach species. Chiang AS, et al. **Mol Cell Endocrinol** 1989 Dec;67(2–3):179–84

DRUG EFFECTS

Stimulatory activity of cysteamine on juvenile hormone release in adult females of the cockroach, Blattella germanica. Piulachs MD, et al. **Comp Biochem Physiol [A]** 1989;94(4):795–8

METABOLISM

Changes in the sensitivity of adult cockroach corpora allata to a brain allatostatin. Pratt GE, et al. **Mol Cell Endocrinol** 1990 Apr 17;70(2):185–95

PHYSIOLOGY

Response of male corpora allata to ovarian stimulation in the cockroach, Diploptera punctata. Stay B, et al. **Gen Comp Endocrinol** 1990 Jan;77(1):127–35

Trophic control of juvenile hormone synthesis and release in locusts. Applebaum SW, et al. **Prog Clin Biol Res** 1990; 342:186–92

CORPORA BIGEMINA see OPTIC LOBE

CORPORA QUADRIGEMINA

[Developmental cysts in the area of the quadrigeminal plate in children] Pařízek J, et al. **Cesk Neurol Neurochir** 1989 May;52(3):212–7 (Eng. Abstr.) (Cze)

CYTOLOGY

[Distribution of retinal ganglion cells projecting into the nucleus of the optic tract in the rat] Okada T. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Nov;92(11):1947–57 (Eng. Abstr.) (Jpn)

DRUG EFFECTS

[The effect of cadmium ions on synaptic transmission in the tectum of the frog] Blistrabas RIu, et al. **Neirofiziologiia** 1989;21(6):756–65 (Eng. Abstr.) (Rus)

GROWTH & DEVELOPMENT

Development of topographic connections between the isthmic nuclei and optic tecta in the frog Limnodynastes dorsalis. Dann JF, et al. **Anat Embryol (Berl)** 1990; 181(2):167–76

PHYSIOLOGY

The spatiotemporal distribution of N–CAM in the retinotectal pathway of adult goldfish detected by the monoclonal antibody D3. Bastmeyer M, et al. **Development** 1990 Feb;108(2):299–311

TRANSPLANTATION

[Morphological changes of embryonic retina and tectum transplanted into the anterior eye chamber of adult rats] Ninomiya S. **Nippon Ganka Gakkai Zasshi** 1989 Apr; 93(4):475–83 (Eng. Abstr.) (Jpn)

CORPUS ALLATUM see CORPORA ALLATA

CORPUS CALLOSUM

Anterior tumour of the corpus callosum with atypical depression. Tanaghow A, et al. **Br J Psychiatry** 1989 Dec; 155:854–6

Hemispatial neglect in a patient with callosal infarction. Kashiwagi A, et al. **Brain** 1990 Aug;113 (Pt 4):1005–23

Lipoma of the corpus callosum associated with distal anterior cerebral artery aneurysm. A case report. Yamamoto M, et al. **Hiroshima J Med Sci** 1989 Sep;38(3):157–60 (26 ref.)

Marchiafava–Bignami disease with recovery diagnosed by CT and MRI: demyelination affects several CNS structures. Baron R, et al. **J Neurol** 1989 Sep;236(6):364–6

Lipoma and agenesis of the corpus callosum with associated choroid plexus lipomas. In utero diagnosis. Mulligan G, et al. **J Ultrasound Med** 1989 Oct;8(10):583–8 (20 ref.)

Intracerebral granular cell tumor. Case report. Gambini C, et al. **Pathologica** 1990 Jan–Feb;82(1077):83–8

[Callosal disconnection syndrome caused by left hemisphere infarction] Habib M, et al. **Rev Neurol (Paris)** 1990; 146(1):19–24 (Eng. Abstr.) (Fre)

[A pitfall of neuroradiological diagnosis: a double intracerebral tumor in CT and MR (intraventricular meningioma and corpus callosum glioma, a case report)] Flaschka G, et al. **ROFO** 1990 Jun;152(6):739–41 (Ger)

[A primary immunocytoma of the CNS simulating a butterfly glioblastoma of the corpus callosum] Zwaan M, et al. **ROFO** 1990 Jan;152(1):118–9 (Ger)

[Antemortem diagnosis of Marchiafava–Bignami disease] Shiota J, et al. **Rinsho Shinkeigaku** 1989 Jun;29(6):701–6 (23 ref.) (Eng. Abstr.) (Jpn)

[Memory disorders in lesions of the corpus callosum in man] Simernitskaia EG, et al. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec;39(6):995–1002 (Eng. Abstr.) (Rus)

[Findings of computed tomography in the acute form of Marchiafava–Bignami disease] López Arlandis JM, et al. **Neurologia** 1990 Feb;5(2):62–4 (Eng. Abstr.) (Spa)

ABNORMALITIES

Apparent atypical callosal dysgenesis: analysis of MR findings in six cases and their relationship to holoprosencephaly. Barkovich AJ. **AJNR** 1990 Mar–Apr; 11(2):333–9

Agenesis and lipoma of the corpus callosum: MR findings [letter] Hua CL. **AJR Am J Roentgenol** 1990 Jun; 154(6):1348

Craniosynostosis, agenesis of the corpus callosum, serve mental retardation, distinctive facies, camptodactyly, and hypogonadism. Lin AE, et al. **Am J Med Genet** 1990 Apr; 35(4):582–5

Sonographic and pathological features of callosal hypoplasia in non–ketotic hyperglycinaemia. Wariyar UK, et al.

Arch Dis Child 1990 Jul;65(7 Spec No):670–1

Agenesis of the corpus callosum and limbic malformations revisited [letter; comment] Cohen MM Jr. Arch Neurol 1989 Dec;46(12):1270 Comment on: Arch Neurol 1989 Jan;46(1):10.

Developmental abnormalities of the corpus callosum in schizophrenia. Swayze VW 2d, et al. Arch Neurol 1990 Jul;47(7):805–8

Aicardi's syndrome [letter; comment] Dalen JT. Arch Ophthalmol 1989 Dec;107(12):1724 Comment on: Arch Ophthalmol 1989 Jun;107(6):922–3.

The corpus callosum and cerebral speech lateralization. Lassonde M, et al. Brain Lang 1990 Feb;38(2):195–206

Ten pen men: rhyming skills in two children with callosal agenesis. Temple CM, et al. Brain Lang 1989 Nov; 37(4):548–64

Unilateral photoconvulsive response in agenesis of the corpus callosum. Brinciotti M, et al. Clin Electroencephalogr 1990 Apr;21(2):101–3

Agenesis of corpus callosum associated with double urinary collecting system, trigonocephaly and other minor anomalies: a new association [letter] Ben Ari J, et al. Eur J Pediatr 1989 Aug;148(8):787–8

The clinical and radiological evaluation of absence of the corpus callosum. Byrd SE, et al. Eur J Radiol 1990 Jan–Feb;10(1):65–73

Cerebrocortical microdysgenesis with anomalous callosal connections: a case study in the rat. Rosen GD, et al. Int J Neurosci 1989 Aug;47(3–4):237–47

Corpus callosum agenesis and uncinate seizures. Mohapatro AK, et al. J Assoc Physicians India 1990 May;38(5):371–2

Neurosonographic features of Aicardi's syndrome. Roland EH, et al. J Child Neurol 1989 Oct;4(4):307–10

The acrocallosal syndrome in a Turkish boy. Yüksel M, et al. J Med Genet 1990 Jan;27(1):48–9

Heterogeneity of clinical severity and molecular lesions in Aicardi syndrome. Neidich JA, et al. J Pediatr 1990 Jun; 116(6):911–7

Prenatal diagnosis of agenesis of the corpus callosum using endovaginal ultrasound. Hilpert PL, et al. J Ultrasound Med 1990 Jun;9(6):363–5

Aicardi syndrome: postmortem findings. Hamano S, et al. Pediatr Neurol 1989 Jul–Aug;5(4):259–61 (12 ref.)

Hypothalamic disease in association with dysgenesis of the corpus callosum. Page SR, et al. Postgrad Med J 1989 Mar; 65(761):163–7

Disorders of midline structures: holoprosencephaly, absence of corpus callosum, and Chiari malformations. Byrd SE, et al. Semin Ultrasound CT MR 1988 Jun;9(3):201–15 (16 ref.)

[Motor and sensory neuropathies with or without agenesis of the corpus callosum: a radiological study of 64 cases.] Mathieu J, et al. Can J Neurol Sci 1990 May;17(2):103–8 (Eng. Abstr.) (Fre)

[Asphyxiating thoracic dysplasia associated with hepatic ductal hypoplasia, agenesis of the corpus callosum and Dandy–Walker syndrome] Trabelsi M, et al. Pediatrie 1990; 45(1):35–8 (24 ref.) (Eng. Abstr.) (Fre)

[A combination of generalized neurofibromatosis (Recklinghausen disease) and agenesis of the corpus callosum] Toedt C, et al. Digitale Bilddiagn 1989 Sep; 9(3):105–6 (Eng. Abstr.) (Ger)

[Shapiro's syndrome: description of a case and review of the literature] Bettini R, et al. Recenti Prog Med 1989 Sep; 80(9):460–2 (12 ref.) (Eng. Abstr.) (Ita)

[The cortical EEG in the acallosal mouse] Okada Y, et al. Nippon Seirigaku Zasshi 1989;51(6):165–71 (Eng. Abstr.) (Jpn)

[A case of Aicardi syndrome with moderate psychomotor retardation] Abe K, et al. No To Hattatsu 1990 Jul; 22(4):376–80 (Eng. Abstr.) (Jpn)

[Delayed epilepsy as presenting form of agenesis of the corpus callosum (letter)] Montalbán J, et al. Neurologia 1987 Mar–Apr;2(2):89–90 (Spa)

ANATOMY & HISTOLOGY

A factor analysis of the rat's corpus callosum. Denenberg VH, et al. Brain Res 1989 Sep 18;497(2):271–9

The midsagittal area of the corpus callosum and total neocortical volume differ in three inbred strains of mice. Rosen GD, et al. Exp Neurol 1990 Mar;107(3):271–6

Callosal projections in rat somatosensory cortex are altered by early removal of afferent input. Koralek KA, et al. Proc Natl Acad Sci U S A 1990 Feb;87(4):1396–400

[MR measurement of normal brainstem cerebellum and corpus callosum on midsagittal section] Kogame S, et al. Rinsho Hoshasen 1989 Oct;34(11):1383–7 (Eng. Abstr.) (Jpn)

BLOOD SUPPLY

Anatomy of the pericallosal pial plexus in man. Malobabić S, et al. Anat Anz 1989;169(2):125–30

Traumatic laceration of pericallosal artery resulting in interhemispheric subdural hematoma: a case report. Gartman JJ Jr, et al. J Emerg Med 1989 Nov–Dec; 7(6):603–10 (25 ref.)

Arteriovenous malformation of the corpus callosum associated with persistent primitive trigeminal artery—case report. Uchino A, et al. Neurol Med Chir (Tokyo) 1989 May;29(5):429–32

Frontal hypermetabolism and thalamic hypometabolism in a patient with abnormal orienting and retrosplenial amnesia. Heilman KM, et al. Neuropsychologia 1990;28(2):161–9

[Bilateral pericallosal artery aneurysms in a mirror position] Niijima KH, et al. No Shinkei Geka 1989 Aug;17(8):779–81 (Eng. Abstr.) (Jpn)

[Aneurysms of the pericallosal region] Bażowski P, et al. Neurol Neurochir Pol 1989 Mar–Apr;23(2):132–5 (Eng. Abstr.) (Pol)

CYTOLOGY

The callosal connections of area 7b, PF in the monkey. Neal JW. Brain Res 1990 Apr 23;514(1):159–62

Growth cone morphology, axon trajectory and branching patterns in the neonatal rat corpus callosum. Hogan D, et al. Brain Res Dev Brain Res 1990 May 1;53(2):283–7

Cytological and quantitative characteristics of four cerebral commissures in the rhesus monkey. Lamantia AS, et al. J Comp Neurol 1990 Jan 22;291(4):520–37

Interhemispheric connections differ between symmetrical and asymmetrical brain regions. Rosen GD, et al. Neuroscience 1989;33(3):525–33

[The morphological characteristics of the callosal neurons of the first auditory area of the cortex (AI) in the cat] Gonchar IuA, et al. Neirofiziologiia 1990;22(2):249–57 (Eng. Abstr.) (Rus)

GROWTH & DEVELOPMENT

Post-critical period plasticity of callosal transfer to visual cortex cells of cats following early conditioning of monocular deprivation and late optic chiasm transection. Yinon U, et al. Brain Res 1990 May 14;516(1):84–90

Effects of dark rearing on the development of visual callosal connections. Frost DO, et al. Exp Brain Res 1989; 78(1):203–13

Maturation of the corpus callosum of the rat: II. Influence of thyroid hormones on the number and maturation of axons. Gravel C, et al. J Comp Neurol 1990 Jan 1; 291(1):147–61

Axon overproduction and elimination in the corpus callosum of the developing rhesus monkey. LaMantia AS, et al. J Neurosci 1990 Jul;10(7):2156–75

INJURIES

Intracranial diffuse axonal injury at autopsy. Parker JR, et al. Ann Clin Lab Sci 1990 May–Jun;20(3):220–4

[Diffuse axonal injury manifested as corpus callosum damage on magnetic resonance imaging. Case report] Tomita H, et al. Neurol Med Chir (Tokyo) 1989 Jun;29(6):525–7 (Eng. Abstr.) (Jpn)

METABOLISM

Effects of anterior corpus callosum section on cortical glucose utilization in baboons. A sequential positron emission tomography study. Yamaguchi T, et al. Brain 1990 Aug;113 (Pt 4):937–51

Immunohistochemical localization of a beta-galactoside-binding lectin in rat central nervous system. I. Light- and electron-microscopical studies on developing cerebral cortex and corpus callosum. Joubert R, et al. Dev Neurosci 1989;11(6):397–413

Maturation of the corpus callosum of the rat: I. Influence of thyroid hormones on the topography of callosal projections. Gravel C, et al. J Comp Neurol 1990 Jan 1; 291(1):128–46

PATHOLOGY

Corpus callosum curvature in schizophrenic twins [letter] Casanova MF, et al. Biol Psychiatry 1990 Jul 1;28(1):83–4

Corpus callosum dimensions measured by magnetic resonance imaging in bipolar affective disorder and schizophrenia. Hauser P, et al. Biol Psychiatry 1989 Nov; 26(7):659–68

Lipid-containing cells in the brain in sudden infant death syndrome. Esiri MM, et al. Dev Med Child Neurol 1990 Apr;32(4):319–24

Caprine beta-mannosidosis: development of glial and myelin abnormalities in optic nerve and corpus callosum. Lovell KL. GLIA 1990;3(1):26–32

Decrease of nerve fibres in the anterior corpus callosum of senile dementia of Alzheimer type [letter] Yamanouchi H, et al. J Neurol 1989 Dec;236(8):491–2

Morphometry of the corpus callosum in monozygotic twins discordant for schizophrenia: a magnetic resonance imaging study. Casanova MF, et al. J Neurol Neurosurg Psychiatry 1990 May;53(5):416–21

Corpus callosal atrophy following closed head injury: detection with magnetic resonance imaging. Levin HS, et al. J Neurosurg 1990 Jul;73(1):77–81

Marchiafava-Bignami disease: consecutive observation at acute stage by magnetic resonance imaging and computerized tomography. Ikeda A, et al. Jpn J Med 1989 Nov–Dec;28(6):740–3

PHYSIOLOGY

Interhemispheric transfer deficit in alexithymia [letter; comment] Merriam AE, et al. Am J Psychiatry 1990 Jul; 147(7):955–6 Comment on: Am J Psychiatry 1989 Nov;146(11):1434–9.

Electrophysiological evidence for an L-shaped interhemispheric connection in the cat. Cukiert A, et al. Arq Neuropsiquiatr 1989 Dec;47(4):381–4

Corpus callosum section disrupts motor behaviour strategies during visual discrimination learning in rat. Christie D, et al. Behav Brain Res 1990 Mar 5;37(2):189–94

Interhemispheric transfer of visuomotor conditional learning via the anterior corpus callosum of monkeys. Eacott MJ, et al. Behav Brain Res 1990 May 7;38(2):109–16

Visual evoked potential measures of interhemispheric transfer time in humans. Saron CD, et al. Behav Neurosci 1989 Oct; 103(5):1115–38

Sexual dimorphism of the human corpus callosum studied by magnetic resonance imaging: fact, fallacy and statistical confidence. Elster AD, et al. Brain Dev 1990;12(3):321–5

Corpus callosum: effects of neonatal hormones on sexual dimorphism in the rat. Fitch RH, et al. Brain Res 1990 May 7;515(1–2):111–6

Interhemispheric EEG coherence before and after partial callosotomy. Montplaisir J, et al. Clin Electroencephalogr 1990 Jan;21(1):42–7

Electroencephalographic studies in "split brain" cats. Berlucchi G. Electroencephalogr Clin Neurophysiol 1966 Apr;20(4):348–56

Comparison of human transcallosal responses evoked by magnetic coil and electrical stimulation. Cracco RQ, et al. Electroencephalogr Clin Neurophysiol 1989 Nov–Dec; 74(6):417–24

Binocularity and single cell acuity are related in striate cortex of corpus callosum sectioned and normal cats. Elberger AJ. Exp Brain Res 1989;77(1):213–6

Interhemispheric interzonal connections in the parietal cortex. Bianki VL, et al. Int J Neurosci 1989 Aug; 47(3–4):333–50

The controversy about a sexual dimorphism of the human corpus callosum. Weis S, et al. Int J Neurosci 1989 Jul; 47(1–2):169–73

Effects of unilateral lesion of the nucleus basalis of Meynert on brain glucose utilization in callosotomized baboons: a PET study. Yamaguchi T, et al. J Cereb Blood Flow Metab 1990 Sep;10(5):618–23

Electrophysiological evidence for interhemispheric transmission of visual information in man. Berardi N, et al. J Physiol (Lond) 1989 Apr;411:207–25

Functional consequences of modification of callosal connections by perinatal enucleation in rat visual cortex. Toldi J, et al. Neuroscience 1989;33(3):517–24

Bilateral receptive fields in cortical area SII: contribution of the corpus callosum and other interhemispheric commissures. Petit D, et al. Somatosens Mot Res 1990; 7(2):97–112

[Plasticity of the callosal system] Lassonde M, et al. Can J Psychol 1990 Jun;44(2):166–79 (Eng. Abstr.) (Fre)

[Functional properties of efferent zones of the motor cortex which project to ipsilateral and contralateral face muscles] Franchi G, et al. Boll Soc Ital Biol Sper 1989 Dec; 65(12):1193–9 (Eng. Abstr.) (Ita)

[Effect of electric stimulation of the locus coeruleus on transcallosal response in parietal associative cortex of the cat brain] Semeniutin AI. Fiziol Zh 1990 May–Jun; 36(3):46–8 (Eng. Abstr.) (Rus)

[The interaction of transcallosal and ascending excitation flows in the visual cortex of the cat] Bozhko GT, et al. Fiziol Zh SSSR 1989 Sep;75(9):1184–93 (Eng. Abstr.) (Rus)

[Interhemispheric asymmetry in the interaction of the transcallosal and ascending flows of excitation in the cat visual cortex] Bozhko GT, et al. Fiziol Zh SSSR 1990 Jan; 76(1):3–11 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Interhemispheric transfer deficit and alexithymia [see comments] Zeitlin SB, et al. Am J Psychiatry 1989 Nov; 146(11):1434–9 Comment in: Am J Psychiatry 1990 Jul;147(7):955–6.

Categorization of disoriented faces in the cerebral hemispheres of normal and commissurotomized subjects. Sergent J, et al. J Exp Psychol [Hum Percept] 1989 Nov; 15(4):701–10

Topographic disorientation—a case report. Bottini G, et al. Neuropsychologia 1990;28(3):309–12

Double disconnection effects resulting from infiltrating tumors. Sidtis JJ, et al. Neuropsychologia 1989; 27(11–12):1415–20

Pathological cerebral blood blow and corpus callosum abnormalities in schizophrenia: relations to EEG mapping and PET data. Guenther W, et al. Psychiatry Res 1989 Sep;29(3):453–5

[Dissymmetry in the interhemispheric transfer between visual areas in the adult cat, induced by chiasmotomy and monocular occlusion] Milleret C, et al. C R Acad Sci [III] 1990;310(12):591–8 (Eng. Abstr.) (Fre)

["My hand" sign associated with tactile extinction in two patients with callosal lesion] Satomi K, et al. Rinsho Shinkeigaku 1989 May;29(5):626–32 (Eng. Abstr.) (Jpn)

RADIOGRAPHY

Corpus callosum lipoma with frontal encephalocele. Rao AS, et al. Neuroradiology 1990;32(1):50–2

SURGERY

Corpus callosum stimulation and stereotactic callosotomy in the management of refractory generalized epilepsy. Preliminary communication. Marino Júnior R, et al. **Arq Neuropsiquiatr** 1989 Sep;47(3):320–5

Callosal section for epilepsy and the avoidance of doing everything possible. Taylor DC. **Dev Med Child Neurol** 1990 Mar;32(3):267–70

Effect of macular and peripheral retina coagulation on photosensitive epilepsy in the forebrain bisected baboon, Papio papio. Fukuda H, et al. **Epilepsia** 1989 Sep–Oct; 30(5):623–30

Evolution of neuropsychological changes after partial callosotomy in intractable epilepsy. Provinciali L, et al. **Epilepsy Res** 1990 Jul;6(2):155–65

Postcallosotomy language impairments in patients with crossed cerebral dominance. Sass KJ, et al. **J Neurosurg** 1990 Jan;72(1):85–90

Results of corpus callosum section in two patients with Lennox–Gastaut syndrome. Nii Y, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):500–1

Expanding treatment modality of medically intractable epilepsy: classical excision and anterior callosal bisection. Wada JA. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):331–3

Intraoperative determination of the extent of corpus callosotomy for epilepsy: two simple techniques. Awad IA, et al. **Neurosurgery** 1990 Jan;26(1):102–5; discussion 105–6

Corpus callosotomy for refractory seizures in a patient with cortical heterotopia: case report. Stearns M, et al. **Neurosurgery** 1989 Oct;25(4):633–5; discussion 635–6

Selective electroencephalograph-guided microsurgical callosotomy for refractory generalized epilepsy. Marino R Jr, et al. **Surg Neurol** 1990 Oct;34(4):219–28

[Remarks on callosotomy in the treatment of drug-resistant epilepsy] Papo I, et al. **Neurochirurgie** 1989;35(3):169–76 (Eng. Abstr.) **(Fre)**

[Corpus callosotomy in intractable epilepsy] Constantini S, et al. **Harefuah** 1989 Dec 15;117(12):433–5 (Eng. Abstr.) **(Heb)**

TRANSPLANTATION

Short-term post-grafting morphological alterations of glia from an adult brain transplant. Ignacio V, et al. **GLIA** 1990; 3(2):140–9

Timing and patterns of astrocyte migration from xenogeneic transplants of the cortex and corpus callosum. Zhou HF, et al. **J Comp Neurol** 1990 Feb 8;292(2):320–30

ULTRASTRUCTURE

Loss of nerve fibres in the corpus callosum of progressive subcortical vascular encephalopathy. Yamanouchi H, et al. **J Neurol** 1990 Feb;237(1):39–41

CORPUS CARDIACUM see NEUROSECRETORY SYSTEMS

CORPUS LUTEUM

Luteal cysts and unexplained infertility: biochemical and ultrasonic evaluation. Hamilton MP, et al. **Fertil Steril** 1990 Jul;54(1):32–7

Corpus luteum: composition and function. Jones GS. **Fertil Steril** 1990 Jul;54(1):21–6 (31 ref.)

Detection of corpora lutea and follicles in cows: a comparison of transvaginal ultrasonography and rectal palpation. Pieterse MC, et al. **Vet Rec** 1990 Jun 2;126(22):552–4

ANALYSIS

Cytosol progesterone and 17 alpha-hydroxyprogesterone levels and luteinizing hormone and chorionic gonadotropin receptors in human corpora lutea. Yeko TR, et al. **Fertil Steril** 1990 Apr;53(4):638–41

Western blot analysis of porcine corpus luteum heparin binding proteins using antibodies to acidic and basic fibroblast growth factor. Makris A, et al. **Mol Cell Endocrinol** 1989 Dec;67(2–3):165–72

ANATOMY & HISTOLOGY

Quantitative comparison of luteal histology in the rat and rabbit: changes from mid- to late gestation. Dharmarajan AM, et al. **J Anat** 1989 Oct;166:191–201

BLOOD SUPPLY

Physiological and immunocytochemical evidence for a new concept of blood flow regulation in the corpus luteum. Wiltbank MC, et al. **Biol Reprod** 1990 Jan;42(1):139–49

Different phenotypes of cultured microvessel endothelial cells obtained from bovine corpus luteum. Study by light microscopy and by scanning electron microscopy (SEM). Spanel-Borowski K, et al. **Cell Tissue Res** 1990 Jul; 261(1):35–47

The assessment of luteal blood flow in pregnant and non-pregnant women by transvaginal color Doppler. Zalud I, et al. **J Perinat Med** 1990;18(3):215–21

CYTOLOGY

Evidence for the regulation of 3 beta-hydroxysteroid dehydrogenase messenger RNA by human chorionic gonadotrophin in luteinized porcine granulosa cells. Chedrese PJ, et al. **Endocrinology** 1990 Apr;126(4):2228–30

Analysis of cell types in the corpus luteum of the sheep. Farin CE, et al. **J Reprod Fertil Suppl** 1989;37:181–7

Cellular distribution of prostacyclin synthase and specific prostacyclin binding sites in bovine corpora lutea of pregnancy. Chegini N, et al. **Mol Cell Endocrinol** 1990 Jun 18;71(2):133–40

DRUG EFFECTS

The effect of tamoxifen on the function and lifespan of the corpus luteum and on subsequent ovarian function. Swahn ML, et al. **Acta Endocrinol (Copenh)** 1989 Sep;121(3):417–25

Effects of lead on luteal function in rhesus monkeys. Franks PA, et al. **Biol Reprod** 1989 Dec;41(6):1055–62

Human chorionic gonadotropin increases chromatin solubility in isolated bovine and human luteal nuclei. Oechsli M, et al. **Biol Reprod** 1989 Oct;41(4):753–60

The response of large and small luteal cells from the pregnant rat to substrates and secretagogues. Smith CJ, et al. **Biol Reprod** 1989 Dec;41(6):1123–32

Regulation of the corpus luteum by protein kinase C. II. Inhibition of lipoprotein-stimulated steroidogenesis by prostaglandin F2 alpha. Wiltbank MC, et al. **Biol Reprod** 1990 Feb;42(2):239–45

Positive feedback relationship between progesterone and daily change of prolactin secretion that develops functional corpora lutea in PMSG-induced first oestrous cycle in prepubertal rats. Tomogane H, et al. **Comp Biochem Physiol [A]** 1990;95(1):185–8

Nuclear changes in ovine luteal cells in response to PGF2 alpha. Sawyer HR, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):229–37

Luteotropic effects of prostaglandins I2 and D2 on isolated human corpora luteum. Bennegård B, et al. **Fertil Steril** 1990 Sep;54(3):459–64

Effects of tamoxifen on corpus luteum function and luteal phase length in cynomolgus monkeys. Olive DL, et al. **Fertil Steril** 1990 Aug;54(2):333–8

Effect of luteal metoclopramide-induced hyperprolactinemia on pituitary and luteal responsiveness to gonadotropin-releasing hormone. Caruso A, et al. **Horm Res** 1989;31(4):169–74

Effect of gonadotrophin-releasing hormone and related analogue on human luteal cell function in vitro. Lanzone A, et al. **Hum Reprod** 1989 Nov;4(8):906–9

Stimulation of bovine luteal oxytocin secretion in vitro by a phorbol ester and calcium ionophore. Cosola-Smith CA, et al. **J Anim Sci** 1990 Aug;68(8):2465–70

Evaluation of luteolysis and estrous synchronization by a prostaglandin analog (Luprostiol) in Brahman cows and heifers. Godfrey RW, et al. **J Anim Sci** 1989 Aug; 67(8):2067–74

Suppressive action of gonadotropin-releasing hormone and luteinizing hormone on function of the developing ovine corpus luteum. Slayden O, et al. **J Anim Sci** 1990 Aug; 68(8):2425–9

The effect of intraluteal infusion of deglycosylated human chorionic gonadotropin on the corpus luteum in rhesus monkeys. Patton PE, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1213–8

Direct luteotrophic effect of oestradiol-17 beta on pig corpora lutea. Conley AJ, et al. **J Reprod Fertil** 1989 Sep; 87(1):125–31

In-vivo effect of prostaglandin F-2 alpha treatment on secretory granules in the corpus luteum of the late pregnant cow. Fields MJ, et al. **J Reprod Fertil Suppl** 1989;37:215–23

Inhibitory effect of gossypol on human chorionic gonadotropin (hCG)-induced progesterone secretion in cultured bovine luteal cells. Gu Y, et al. **Life Sci** 1990; 47(5):407–14

Arachidonic acid and its metabolites increase cytosolic free calcium in bovine luteal cells. Alila HW, et al. **Prostaglandins** 1990 May;39(5):481–96

Associations among progesterone, estradiol-17 beta, oxytocin and prostaglandin in cattle treated with hCG during diestrus to extend corpus luteum function. Howard HJ, et al. **Prostaglandins** 1990 Jul;40(1):51–70

Effect of continuous infusion of oxytocin on prostaglandin F2 alpha secretion and luteolysis in the cyclic ewe. Sheldrick EL, et al. **Reprod Fertil Dev** 1990;2(1):89–99

[Morphological observation of termination of early pregnancy with anordrin in mice] Ou KQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):270–2 (Eng. Abstr.) **(Chi)**

[Morphometry of bovine luteal tissue explants after the addition of various doses of 15-glycol cloprostenol (Glystrophan inj. Spofa)] Kolouch F, et al. **Vet Med (Praha)** 1990 Feb;35(2):65–72 (Eng. Abstr.) **(Cze)**

[The effect of Enzaprost-F (PGF2) cervical tablets on the corpus luteum in the human body] Farkas M, et al. **Morphol Igazsagugyi Orv Sz** 1990 Apr;30(2):134–9 (Eng. Abstr.) **(Hun)**

ENZYMOLOGY

Nonsteroidal antiestrogen inhibition of protein kinase C in human corpus luteum and placenta. Eyster KM, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3497–503

Purification and properties of NADP(+)-dependent isocitrate dehydrogenase from the corpus luteum. Jennings GT, et al. **Biochim Biophys Acta** 1990 May 16; 1034(2):219–27

Comparison of the luteinizing hormone-sensitive adenylyl cyclase of the pig ovarian follicle and corpus luteum and its susceptibility to in vitro hormone-dependent desensitization. Ekstrom RC, et al. **Endocrinology** 1990 Feb; 126(2):1191–8

The biosynthesis of cholesterol side-chain cleavage cytochrome P-450 in the rabbit corpus luteum depends upon estrogen. Keyes PL, et al. **Endocrinology** 1990 Sep; 127(3):1186–93

Mechanism for control of hydroxymethylglutaryl-coenzyme A reductase and cytochrome P-450 side chain cleavage message and enzyme in the corpus luteum. Puryear TK, et al. **Endocrinology** 1990 Jun;126(6):2910–8

Developmental expression of Ca++/Mg++-dependent endonuclease activity in rat granulosa and luteal cells. Zeleznik AJ, et al. **Endocrinology** 1989 Oct;125(4):2218–20

Cyclic AMP-dependent and -independent regulation of cholesterol side chain cleavage cytochrome P-450 (P-450scc) in rat ovarian granulosa cells and corpora lutea. cDNA and deduced amino acid sequence of rat P-450scc. Oonk RB, et al. **J Biol Chem** 1989 Dec 25;264(36):21934–42

Expression of messenger ribonucleic acid species encoding steroidogenic enzymes in human follicles and corpora lutea throughout the menstrual cycle. Doody KJ, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1041–5

Proliferating human granulosa-lutein cells in long term monolayer culture: expression of aromatase, cholesterol side-chain cleavage, and 3 beta-hydroxysteroid dehydrogenase. McAllister JM, et al. **J Clin Endocrinol Metab** 1990 Jul;71(1):26–33

A quantitative histochemical study of delta 5-3 beta-hydroxysteroid dehydrogenase and succinate dehydrogenase activities in the bovine corpus luteum of pregnancy. Boos A, et al. **Z Mikrosk Anat Forsch** 1989; 103(6):888–96

GROWTH & DEVELOPMENT

Extension of short cycles in postpartum beef cows by intrauterine treatment with catecholestradiol. Nephew KP, et al. **Domest Anim Endocrinol** 1989 Oct;6(4):363–70

IMMUNOLOGY

Ovarian failure and autoimmunity. Detection of autoantibodies directed against both the unoccupied luteinizing hormone/human chorionic gonadotropin receptor and the hormone-receptor complex of bovine corpus luteum. Moncayo H, et al. **J Clin Invest** 1989 Dec; 84(6):1857–65

METABOLISM

Relaxin and prostaglandin on oxytocin secretion from bovine luteal cells during different stages of gestation. Musah AH, et al. **Acta Endocrinol (Copenh)** 1990 Mar;122(3):396–402

Studies on the prostaglandin E-2-9-ketoreductase mediated production of prostaglandin F-2 alpha and its metabolism in cultured rabbit luteal cells. Schlegel W, et al. **Acta Endocrinol (Copenh)** 1989 Sep;121(3):395–400

Inhibitory effect of gossypol on steroidogenic pathways in cultured bovine luteal cells. Gu Y, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):455–61

Biosynthesis of prostaglandins in ovarian follicles and corpus luteum of sheep ovary. Padmavathi O, et al. **Biochem Int** 1990;20(3):455–61

Tumor necrosis factor production and accumulation of inflammatory cells in the corpus luteum of pseudopregnancy and pregnancy in rabbits. Bagavandoss P, et al. **Biol Reprod** 1990 Feb;42(2):367–76

Multiple classes of prostaglandin F2 alpha binding sites in subpopulations of ovine luteal cells. Balapure AK, et al. **Biol Reprod** 1989 Sep;41(3):385–92

Support for a physiological role of endogenous catecholamines in the stimulation of bovine luteal progesterone production. Battista PJ, et al. **Biol Reprod** 1989 Nov;41(5):807–12

Progesterone and prostaglandin production by primate luteal cells collected at various stages of the luteal phase: modulation by calcium ionophore. Houmard BS, et al. **Biol Reprod** 1989 Sep;41(3):401–8

In vivo levels of prostaglandin F2 alpha, E2 and prostacyclin in the corpus luteum of pregnant and pseudopregnant rats. Olofsson J, et al. **Biol Reprod** 1990 May–Jun; 42(5–6):792–800

Luteal production of steroids and prostaglandins during simulated early pregnancy in the primate: differential regulation of steroid production by chorionic gonadotropin. Ottobre JS, et al. **Biol Reprod** 1989 Sep; 41(3):393–400

Hormonal regulation of free intracellular calcium concentrations in small and large ovine luteal cells. Wiltbank MC, et al. **Biol Reprod** 1989 Oct;41(4):771–8

Response of the bovine corpus luteum to increased secretion of luteinizing hormone induced by exogenous gonadotropin releasing hormone. Martin TL, et al. **Domest Anim Endocrinol** 1990 Jan;7(1):27–34

Modulation of steroid production in goat ovarian cells: effect of progestins and antiprogestins. Kharbanda SM, et al. **Endocr Res** 1990;16(2):293–309

Relaxin gene expression in the sow corpus luteum during the cycle, pregnancy, and lactation. Bagnell CA, et al. **Endocrinology** 1990 May;126(5):2514–20

Luteotropic effects of prolactin in the bovine ovary. Bartosik D, et al. **Endocrinology** 1967 Aug;81(2):186–94

Prostaglandin F2 alpha receptors on enzyme-dissociated pig luteal cells throughout the estrous cycle. Gadsby JE, et al. **Endocrinology** 1990 Feb;126(2):787–95

Identification and characterization of an abundant phosphoprotein specific to the large luteal cell. McLean MP, et al. **Endocrinology** 1990 Apr;126(4):1796–805

The antigonadotropic actions of prostaglandin F2 alpha and phorbol ester are mediated by separate processes in rat luteal cells. Musicki B, et al. **Endocrinology** 1990 Mar; 126(3):1388–95

The calcium-mobilizing agent, thapsigargin, inhibits progesterone production in rat luteal cells by a calcium-independent mechanism. Pepperell JR, et al. **Endocrinology** 1990 Oct;127(4):1818–24

Vascular endothelial growth factor is expressed in rat corpus luteum. Phillips HS, et al. **Endocrinology** 1990 Aug; 127(2):965–7

Effects of oxytocin on in vitro steroid release of midstage small and large porcine luteal cells. Pitzel L, et al. **Endocrinology** 1990 May;126(5):2343–9

Some characteristics and optimum incubation conditions of in vitro progesterone synthesis by bovine corpora lutea. Seifart KH, et al. **Endocrinology** 1968 Feb;82(2):232–40

Regulation of rat luteal cell high density lipoprotein receptors: up-regulation in response to changes in intracellular cholesterol concentration. Talavera F, et al. **Endocrinology** 1989 Oct;125(4):2015–21

Facilitative actions of the protein kinase-C effector system on hormonally stimulated adenosine 3',5'-monophosphate production by swine luteal cells. Wheeler MB, et al. **Endocrinology** 1989 Nov;125(5):2414–20

Disparate effects of the prostaglandin synthesis inhibitors, meclofenamate, and flurbiprofen on monkey luteal tissue in vitro. Zelinski-Wooten MB, et al. **Endocrinology** 1990 Mar;126(3):1380–7

Acute stimulation by lutropin of mitochondrial protein synthesis in small luteal cells. Mittre H, et al. **Eur J Biochem** 1990 Feb 14;187(3):721–6

In-vitro steroid production by human granulosa lutein cells in long-term cultures. Hurwitz A, et al. **Gynecol Endocrinol** 1989 Sep;3(3):203–11

Pertussis toxin-mediated ADP-ribosylation of rabbit luteal Gi uncouples enkephalin inhibition of adenylyl cyclase. Abramowitz J, et al. **Int J Biochem** 1990;22(1):31–7

Reversal by human chorionic gonadotropin of the inhibitory effect of clomiphene on progesterone production by granulosa-luteal cells in culture. Lavy G, et al. **Int J Fertil** 1989 Sep-Oct;34(5):359–62

Angiotensin II inhibits luteinizing hormone-stimulated cholesterol side chain cleavage expression and stimulates basic fibroblast growth factor expression in bovine luteal cells in primary culture. Stirling D, et al. **J Biol Chem** 1990 Jan 5;265(1):5–8

The effects of lipoxygenase products on progesterone and prostaglandin production by human corpora lutea. Ichikawa F, et al. **J Clin Endocrinol Metab** 1990 Apr; 70(4):849–55

Regulation of insulin-like growth factor-binding protein-1 production in human granulosa-luteal cells. Jalkanen J, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1174–9

Luteal steroidogenesis and regression in the rat: effects of human chorionic gonadotrophin and phospholipase A2 on cells and plasma membranes. Greenhalgh EA. **J Endocrinol** 1990 Jun;125(3):387–96

Luteal steroidogenesis and regression in the rat: progesterone secretion and lipid peroxidation induced in luteal cells by human chorionic gonadotrophin, phospholipase A2 and prostaglandin F2 alpha. Greenhalgh EA. **J Endocrinol** 1990 Jun;125(3):397–402

Effects of prostaglandin F2 alpha and other potential secretagogues on oxytocin secretion and second messenger metabolism in the ovine corpus luteum in vitro. McCann TJ, et al. **J Endocrinol** 1990 Jul;126(1):89–98

Inhibition of progesterone synthesis and cAMP accumulation in small bovine luteal cells by a low molecular weight component of bovine follicular fluid. el boudrari L, et al. **J Reprod Fertil** 1990 May;89(1):243–51

Patterns of plasma progesterone, androgen and oestrogen concentrations and in-vitro ovarian steroidogenesis during embryonic diapause and implantation in the mink (Mustela vison). Stoufflet I, et al. **J Reprod Fertil** 1989 Sep; 87(1):209–21

Oxytocin-specific RNA, oxytocin and progesterone concentrations in corpora lutea of heifers treated with oxytocin. Tsang PC, et al. **J Reprod Fertil** 1990 May; 89(1):77–84

Adaptations to pregnancy in the interactions between luteal oxytocin and the uterus in ruminants. Flint AP, et al. **J Reprod Fertil Suppl** 1989;37:195–204 (25 ref.)

Corpus luteum function in dairy cows and embryo mortality. Lamming GE, et al. **J Reprod Fertil Suppl** 1989;37:245–52

Protein phosphorylation in the corpus luteum. Maizels ET, et al. **J Reprod Fertil Suppl** 1989;37:311–7

Effect of human chorionic gonadotropin and prostaglandin F2a on progesterone production by human luteal cells. Khan-Dawood FS, et al. **J Steroid Biochem** 1989 Nov; 33(5):941–7

Involvement of the phospholipase C second messenger system in the regulation of steroidogenesis in small bovine luteal cells. Benhaim A, et al. **Mol Cell Endocrinol** 1990 Jan 22;68(2-3):105–11

Phorbol ester- and luteinizing hormone-induced phosphorylation of membrane proteins in bovine luteal cells. Budnik LT, et al. **Mol Cell Endocrinol** 1990 Mar 5; 69(2-3):245–53

Phorbol ester receptors in bovine luteal cells: relationship to protein kinase C. Dowd JP, et al. **Mol Cell Endocrinol** 1990 Mar 5;69(2-3):199–206

The regulation of oxytocin gene expression in early bovine luteal cells. Furuya K, et al. **Mol Cell Endocrinol** 1990 Mar 26;70(1):81–8

Expression of the human relaxin gene in the corpus luteum of the menstrual cycle and in the prostate. Ivell R, et al. **Mol Cell Endocrinol** 1989 Oct;66(2):251–5

Nucleotide sequence of a full length cDNA clone encoding the oxytocin-neurophysin I precursor isolated from the ovine corpus luteum. Jones DS, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7990

[3H]prostaglandin F2 alpha membrane binding reexamined. Orlicky DJ. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jul;40(3):181–9

Production and regulation of progesterone in bovine corpus luteum and placenta in mid and late gestation: a personal review. Shemesh M. **Reprod Fertil Dev** 1990;2(2):129–35 (37 ref.)

[Effects of 5-hydroxyeicosatetraenoic acid (5-HETE) on progesterone and prostaglandin production by human corpora lutea] Ichikawa F, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jan;42(1):16–22 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Ovarian malignant luteinized thecoma—an unusual tumor in an adolescent. Dudzinski M, et al. **Gynecol Oncol** 1989 Oct; 35(1):104–9

PHYSIOLOGY

The corpus luteum of the sheep: relationships between morphology and function during the oestrous cycle. Deane HW, et al. **Acta Endocrinol (Copenh)** 1966 Feb;51(2):245–63

The corpus luteum-hypophysis relationship: the effect of progesterone treatment on the release of gonadotrophins in the rat. Kaufman AB, et al. **Acta Endocrinol (Copenh)** 1966 Feb;51(2):231–44

Effect of prolactin on ovarian steroidogenesis. Dusza L. **Acta Physiol Pol** 1989 Jan-Feb;40(1):74–84 (37 ref.)

The interaction of follicular cells and steroidogenic activity of the ovary. Stokłosowa S. **Acta Physiol Pol** 1989 Jan-Feb; 40(1):35–52 (98 ref.)

Effects of systemic administration of indomethacin on ovulation, luteinization, and steroidogenesis in the rabbit ovary. Katz E, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1361–6

Induction of the lutropin/choriogonadotropin receptor in rat ovary during luteinization. Hansbury MJ, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):525–30

Evidence for coupling of different receptors for gonadotropin-releasing hormone to phospholipases C and A2 in cultured rat luteal cells. Watanabe H, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):328–34

In vitro prostaglandin production by bovine corpora lutea destined to be normal or short-lived. Hu YF, et al. **Biol Reprod** 1990 May-Jun;42(5-6):801–7

Luteinizing hormone secretion and corpus luteum function in cows receiving two levels of progesterone. Roberson MS, et al. **Biol Reprod** 1989 Dec;41(6):997–1003

The status of the corpus luteum during pregnancy in Miniopterus schreibersii (Chiroptera: Vespertilionidae) with emphasis on its role in developmental delay. Crichton EG, et al. **Cell Tissue Res** 1989 Oct;258(1):183–201

Energy balance and body condition influence luteal function in Holstein heifers. Villa-Godoy A, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):135–48

Detection of a 58-kilodalton high density lipoprotein-binding protein in the membrane fraction of luteinized rat ovaries. Ferreri K, et al. **Endocrinology** 1990 Apr;126(4):2137–44

Hormonal regulation and tissue-specific localization of alpha 2-macroglobulin in rat ovarian follicles and corpora lutea. Gaddy-Kurten D, et al. **Endocrinology** 1989 Dec; 125(6):2985–95

Influence of hypophysectomy, sham hypophysectomy and other surgical procedures on luteal function in the rhesus monkey. Knobil E, et al. **Endocrinology** 1968 Feb; 82(2):410–5

Possible role of transforming growth factor-beta as a mediator of luteotropic action of prolactin in rat luteal cell cultures. Matsuyama S, et al. **Endocrinology** 1990 Oct; 127(4):1561–7

Corpus luteum and fetoplacental functions in monkeys hypophysectomized during late pregnancy. Walsh SW, et al. **Endocrinology** 1977 Mar;100(3):845–50

Effect of reduced luteinizing hormone concentrations on corpus luteum function during the menstrual cycle of rhesus monkeys. Zeleznik AJ, et al. **Endocrinology** 1990 May;126(5):2237–44

Prolonged luteal activity in mares—a semantic quagmire [see comments] Ginther OJ. **Equine Vet J** 1990 May;22(3):152–6 (30 ref.) Comment in: Equine Vet J 1990 May;22(3):150.

Can premature luteinization in superovulation protocols be prevented by aspiration of an ill-timed leading follicle? Barash A, et al. **Fertil Steril** 1990 May;53(5):865–9

The persistence of the corpus luteum of pregnancy into lactation in the marsupial bandicoot, Isoodon macrourus. Gemmell RT. **Gen Comp Endocrinol** 1989 Sep;75(3):355–62

Follicular growth and corpus luteum function in women with unexplained infertility, monitored by ultrasonography and measurement of daily salivary progesterone. Finn MM, et al. **Gynecol Endocrinol** 1989 Dec;3(4):297–308

Preovulatory luteinization during induction of follicular maturation with menotrophin and menotrophin—clomiphene combination. Birkenfeld A, et al. **Hum Reprod** 1990 Jul;5(5):561–4

Luteal function associated with single, multiple and ectopic embryo implantation in natural cycles or after ovarian hyperstimulation for in-vitro fertilization/gamete intra-fallopian transfer. Wang L, et al. **Hum Reprod** 1990 May;5(4):476–80

Biochemical changes in lipids during follicular growth and corpora lutea formation and regression in rat ovary. Sangha GK, et al. **Indian J Exp Biol** 1989 Nov;27(11):998–1000

Rat luteal cells in tissue culture: a technique for obtaining primary cell culture without enzymatic dissociation. Srivastava UK, et al. **Indian J Exp Biol** 1989 Jul;27(7):602–6

Serum immunoreactive inhibin levels before and after luteectomy in the cynomolgus monkey (Macaca fascicularis). Basseti SG, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):590–4

Regulation of oxytocin secretion by the ovine corpus luteum: effect of activators of protein kinase C. Hirst JJ, et al. **J Endocrinol** 1990 Feb;124(2):225–32

Effect of active immunization of pre-partum and post-partum cows against prostaglandin F-2 alpha on lifespan and progesterone secretion of short-lived corpora lutea. Copelin JP, et al. **J Reprod Fertil** 1989 Sep;87(1):199–207

Effects of luteinizing hormone on luteal cell populations in hypophysectomized ewes. Farin CE, et al. **J Reprod Fertil** 1990 Jan;88(1):61–70

Morning pulse of prolactin maintains seasonal quiescence in the tammar, Macropus eugenii. Hinds LA. **J Reprod Fertil** 1989 Nov;87(2):735–44

Formation and function of GnRH-induced subnormal corpora lutea in cyclic ewes. Keisler DH, et al. **J Reprod Fertil** 1989 Sep;87(1):265–73

Regulation of steroidogenesis and cholesterol synthesis by prostaglandin F-2 alpha and lipoproteins in bovine luteal cells. Pate JL, et al. **J Reprod Fertil** 1989 Nov;87(2):439–46

Luteal-phase defect induced by deprivation of FSH at a specific period of the follicular phase prevents pregnancy in the bonnet monkey (Macaca radiata). Ravindranath N, et al. **J Reprod Fertil** 1990 Jan;88(1):25–30

Failure of two progesterone antagonists, mifepristone and onapristone, to affect luteal activity in lactating rats. van der Schoot P, et al. **J Reprod Fertil** 1989 Nov;87(2):593–601

Changing responsiveness of luteal cells of the marmoset monkey (Callithrix jacchus) to luteotrophic and luteolytic agents during normal and conception cycles. Webley GE, et al. **J Reprod Fertil** 1989 Sep;87(1):301–10

Control of corpus luteum function in the pregnant rabbit. Gadsby JE. **J Reprod Fertil Suppl** 1989;37:45–54

Mechanism of the luteolytic action of prostaglandin F-2 alpha in the rat. Lahav M, et al. **J Reprod Fertil Suppl** 1989;37:233–40

Endocrine regulation of the corpus luteum of the bitch as a potential target for altering fertility. Olson PN, et al. **J Reprod Fertil Suppl** 1989;39:27–40 (99 ref.)

Is the corpus luteum normal after ovulation induction? Lenz S, et al. **JCU** 1990 Mar-Apr;18(3):155–9

Roles of prolactin and the uterus in the control of luteal regression in the Bennett's wallaby (Macropus rufogriseus rufogriseus). Loudon AS, et al. **Reprod Fertil Dev** 1990; 2(1):71–8

Cell-cell communication in corpora lutea. Rodgers RJ. **Reprod Fertil Dev** 1990;2(3):281–9 (74 ref.)

[Suppression by luteectomy of the simultaneous increase in intramammary pressure and blood oxytocin levels induced by the injection of PGF2-alpha in ewes] Labussière J, et al. **Reprod Nutr Dev** 1990;30(1):91–6 (Eng. Abstr.) **(Fre)**

[The corpus luteum: new discoveries on its regulation and clinical applications] Hahlin M, et al. **Lakartidningen** 1989 Sep 20;86(38):3139–41 **(Swe)**

PHYSIOPATHOLOGY

Inspection of the ovaries and steroids in serum and peritoneal fluid at various time intervals after ovulation in fertile women: implications for the luteinized unruptured follicle syndrome. Scheenjes E, et al. **Fertil Steril** 1990 Jul; 54(1):38–41

Luteal function in patients with endometriosis. Zhang YW, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989;4(2):96–101

Relationship between premenstrual symptoms and oral contraceptive use: a controlled study. Walker A, et al. **Psychosom Med** 1990 Jan-Feb;52(1):86–96

[Midluteal progesterone/estradiol ratio as an indicator of pregnancy potential] Tajima C, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Nov 20; 65(11):1278–85 (Eng. Abstr.) **(Jpn)**

[Relationship between luteal function and prolactin in infertile women with endometriosis] Hayashi N, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov; 41(11):1720–4 (Eng. Abstr.) **(Jpn)**

SECRETION

Luteotropic and luteolytic responsiveness of ovine luteal cells in long-term culture. Kong W, et al. **Biol Reprod** 1989 Oct;41(4):707-14

Secretory dynamics of oestradiol (E2) and progesterone (P4) during periods of relative pituitary LH quiescence in the midluteal phase of the menstrual cycle. Rossmanith WG, et al. **Clin Endocrinol (Oxf)** 1990 Jan;32(1):13-23

Luteal oxytocin: characteristics and control of synchronous episodes of oxytocin and PGF2 alpha secretion at luteolysis in ruminants. Flint AP, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):111-24 (87 ref.)

Release and effects of oxytocin on estradiol and progesterone secretion in porcine corpora lutea as measured by an in vivo microdialysis system. Jarry H, et al. **Endocrinology** 1990 May;126(5):2350-8

Effect of antimicrotubule agents on secretion of relaxin by large luteal cells derived from pregnant swine. Taylor MJ, et al. **Endocrinology** 1990 Apr;126(4):1790-5

17-Hydroxyprogesterone level as a marker for corpus luteum function in aborters versus nonaborters. Check JH, et al. **Int J Fertil** 1990 Mar-Apr;35(2):112-5

Pulsatile cosecretion of estradiol and progesterone by the midluteal phase corpus luteum: temporal link to luteinizing hormone pulses. Rossmanith WG, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):990-5

Secretion of prostaglandins and progesterone by cells from corpora lutea of mares. Watson ED, et al. **J Reprod Fertil** 1990 Jan;88(1):223-9

Plasma progesterone concentrations in pregnant and non-pregnant llamas (Lama glama). Adam CL, et al. **Vet Rec** 1989 Dec 16;125(25):618-20

ULTRASTRUCTURE

Ultrastructural cytology of the cyclic corpus luteum of the cow. O'Shea JD, et al. **Acta Anat (Basel)** 1990; 138(2):154-65

The corpus luteum of the pig. Scanning electron microscopic study of surface features at different times of incubation. Gregoraszczuk E, et al. **Acta Biol Hung** 1989; 40(1-2):145-56

Composition of the inner mitochondrial membrane of porcine corpus luteum. Holland JW, et al. **Biochim Biophys Acta** 1990 Mar;1022(3):401-7

The presence of gonadotropin and prostaglandin E receptors in the cell membranes of bovine corpora lutea throughout pregnancy. Rao CV. **Fertil Steril** 1975 Dec;26(12):1185-9

Structural aspects of luteal function and regression in the ovary of the domestic dog. Dore MA. **J Reprod Fertil Suppl** 1989;39:41-53

CORPUS LUTEUM CYST see **OVARIAN CYSTS**

CORPUS LUTEUM HORMONES

DEFICIENCY

[Treatment of functional infertility, caused by luteal deficiency, with pulsatile perfusion of gonadotropin releasing hormone] Koloszár S, et al. **Orv Hetil** 1989 Dec 17;130(51):2737-9 (Eng. Abstr.) **(Hun)**

CORPUS LUTEUM MAINTENANCE

Identification of a luteotrophic protein in bovine allantoic fluid. Hickey GJ, et al. **J Reprod Fertil Suppl** 1989;37:29-35

Ovarian steroid hormones and endometrial response. Balasch J. **Rev Esp Fisiol** 1990 Mar;46(1):79-82

DRUG EFFECTS

Effects of chronic infusion of dibutyryl c-AMP or adenosine on luteal function in sheep. Weems CW, et al. **Endocrinol Jpn** 1989 Jun;36(3):439-47

Direct luteotrophic effect of oestradiol-17 beta on pig corpora lutea. Conley AJ, et al. **J Reprod Fertil** 1989 Sep; 87(1):125-31

Changing responsiveness of luteal cells of the marmoset monkey (Callithrix jacchus) to luteotrophic and luteolytic agents during normal and conception cycles. Webley GE, et al. **J Reprod Fertil** 1989 Sep;87(1):301-10

PHYSIOLOGY

Prolonged luteal activity in mares--a semantic quagmire [see comments] Ginther OJ. **Equine Vet J** 1990 May;22(3):152-6 (30 ref.) Comment in: Equine Vet J 1990 May;22(3):150.

Relative roles of oestradiol and of the uterus in the maintenance of the corpus luteum in the pseudopregnant brown hare (Lepus europaeus). Caillol M, et al. **J Reprod Fertil** 1989 Nov;87(2):603-12

Effects of luteinizing hormone on luteal cell populations in hypophysectomized ewes. Farin CE, et al. **J Reprod Fertil** 1990 Jan;88(1):61-70

Participation of ovarian 20 alpha-hydroxysteroid dehydrogenase in luteotrophic and luteolytic processes during rat pseudopregnancy. Matsuda J, et al. **J Reprod Fertil** 1990 Mar;88(2):467-74

Maternal recognition of pregnancy and maintenance of the corpus luteum. Proceedings of a workshop. Jerusalem, Israel, March 1988. **J Reprod Fertil Suppl** 1989;37:1-352

CORPUS LUTEUM REGRESSION

Plasma membrane changes during corpus luteum regression. Carlson JC, et al. **Can J Physiol Pharmacol** 1989 Aug; 67(8):957-61 (24 ref.)

Mechanism of the luteolytic action of prostaglandin F-2 alpha in the rat. Lahav M, et al. **J Reprod Fertil Suppl** 1989;37:233-40

Ovarian peptides in the cow and sheep. Schams D. **J Reprod Fertil Suppl** 1989;37:225-31 (24 ref.)

Concentrations of 13, 14-dihydro-15-keto prostaglandin F2 alpha after pulsatile progesterone administration at the time of luteolysis of heifers. Jacobs AL, et al. **Prostaglandins** 1990 Jan;39(1):3-12

DRUG EFFECTS

Studies on prostaglandin and luteolysis in the pseudopregnant rabbit. Carlson JC, et al. **Endocr Res** 1990;16(2):193-204

Termination of pregnancy and induction of premature luteolysis by the antiprogestagen, mifepristone, in dogs. Concannon PW, et al. **J Reprod Fertil** 1990 Jan; 88(1):99-104

Effects of prostaglandin and prolactin on luteolysis and parturient behaviour in the non-pregnant tammar, Macropus eugenii. Hinds LA, et al. **J Reprod Fertil** 1990 Jan;88(1):323-33

PHYSIOLOGY

Counter current transfer of PGF2 alpha in the mesometrial vessels as a mechanism for prevention of luteal regression in early pregnancy. Krzymowski T, et al. **Acta Physiol Pol** 1989 Jan-Feb;40(1):23-34 (14 ref.)

Prolonged luteal activity in mares--a semantic quagmire [see comments] Ginther OJ. **Equine Vet J** 1990 May;22(3):152-6 (30 ref.) Comment in: Equine Vet J 1990 May;22(3):150.

Luteal steroidogenesis and regression in the rat: progesterone secretion and lipid peroxidation induced in luteal cells by human chorionic gonadotrophin, phospholipase A2 and prostaglandin F2 alpha. Greenhalgh EA. **J Endocrinol** 1990 Jun;125(3):397-402

Luteal steroidogenesis and regression in the rat: effects of human chorionic gonadotrophin and phospholipase A2 on cells and plasma membranes. Greenhalgh EA. **J Endocrinol** 1990 Jun;125(3):387-96

Effect of active immunization of pre-partum and post-partum cows against prostaglandin F-2 alpha on lifespan and progesterone secretion of short-lived corpora lutea. Copelin JP, et al. **J Reprod Fertil** 1989 Sep;87(1):199-207

Formation and function of GnRH-induced subnormal corpora lutea in cyclic ewes. Keisler DH, et al. **J Reprod Fertil** 1989 Sep;87(1):265-73

Participation of ovarian 20 alpha-hydroxysteroid dehydrogenase in luteotrophic and luteolytic processes during rat pseudopregnancy. Matsuda J, et al. **J Reprod Fertil** 1990 Mar;88(2):467-74

Structural aspects of luteal function and regression in the ovary of the domestic dog. Dore MA. **J Reprod Fertil Suppl** 1989;39:41-53

CORPUS STRIATUM

Potential benefits of dopamine striatal implant [letter; comment] Lang AE. **Ann Neurol** 1990 Jan;27(1):109-10 Comment on: Ann Neurol 1989 Apr;25(4):351-6.

Systemic treatments with GM1 ganglioside reduce quinolinic acid-induced striatal lesions in the rat. Lombardi G, et al. **Eur J Pharmacol** 1989 Dec 12;174(1):123-5

Importance of catecholamine release for the functional action of intrastriatal implants of adrenal medullary cells: pharmacological analysis and in vivo electrochemistry. Decombe R, et al. **Exp Neurol** 1990 Feb;107(2):143-53

Host afferents into intrastriatal transplants of fetal ventral mesencephalon. Doucet G, et al. **Exp Neurol** 1989 Oct; 106(1):1-19

Parkinsonism secondary to bilateral striatal fungal abscesses [published erratum appears in Mov Disord 1990;5(3):268] Adler CH, et al. **Mov Disord** 1989;4(4):333-7

Transient hemiballism and striatal infarct [letter] Defebvre L, et al. **Stroke** 1990 Jun;21(6):967-8

[A case report of central pontine and extrapontine myelinolysis which occurred during pregnancy and was accompanied by choreic movement] Tsutada T, et al. **Rinsho Shinkeigaku** 1989 Oct;29(10):1294-7 (Eng. Abstr.) **(Jpn)**

[A case of delayed postanoxic encephalopathy with bilateral lesions of the corpus striatum] Yoshida T. **Seishin Shinkeigaku Zasshi** 1989;91(5):303-17 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Distribution of neuropeptide Y in the prosencephalon of man and cotton-head tamarin (Saguinus oedipus): colocalization with somatostatin in neurons of striatum and amygdala. Schwartzberg M, et al. **Anat Embryol (Berl)** 1990; 181(2):157-66

Quantitative morphological analysis of striatal cholinergic neurons in perinatal asphyxia. Burke RE, et al. **Ann Neurol** 1990 Jan;27(1):81-8

Increase of deleted mitochondrial DNA in the striatum in Parkinson's disease and senescence. Ikebe S, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1044-8

Preparation of an affinity chromatography matrix for the selective purification of the dopamine D2 receptor from bovine striatal membranes. Clagett-Dame M, et al. **Biochim Biophys Acta** 1989 Nov 27;986(2):271-80

Calcineurin in the postnatal striatum of the rat: an immunohistochemical study. Goto S, et al. **Exp Brain Res** 1989;77(2):442-6

Plasma and brain kinetics of large neutral amino acids and of striatum monoamines in rats given aspartame. Romano M, et al. **Food Chem Toxicol** 1990 May;28(5):317-21

The quantitative analysis of D2-dopamine receptors in baboon striatum in vivo with 3-N-[2'-18F]fluoroethylspiperone using positron emission tomography. Jovkar S, et al. **J Cereb Blood Flow Metab** 1990 Sep;10(5):720-6

Coupling of subtypes of the muscarinic receptor to adenylate cyclase in the corpus striatum and heart. Ehlert FJ, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):660-71

Molecular mechanisms of homologous desensitization and internalization of muscarinic receptors in primary cultures of neonatal corticostriatal neurons. Eva C, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):257-65

Cross-linking of human [125I]beta-endorphin to opioid receptors in rat striatal membranes: biochemical evidence for the existence of a mu/delta opioid receptor complex. Schoffelmeer AN, et al. **J Pharmacol Exp Ther** 1990 Apr; 253(1):419-26

Simultaneous determination of 3,4-dihydroxyphenylacetic acid and homovanillic acid in milligram amounts of rat striatal tissue by gas-liquid chromatography. Watson E, et al. **Life Sci** 1974 Dec 15;15(12):2167-78

Alterations in neurotransmitter amino acid content in the aging rat striatum are subregion dependent. Donzanti BA, et al. **Neurobiol Aging** 1990 Mar-Apr;11(2):159-62

L-threodops increases extracellular norepinephrine levels in the brain: an in vivo study. Brannan T, et al. **Neurology** 1990 Jul;40(7):1134-5

Characterization of neurons containing nerve growth factor receptors in the rat neostriatum. Kiss J, et al. **Neurosci Lett** 1989 Nov 6;105(3):251-6

Dissociation between biochemical and behavioral recovery in MPTP-treated mice. Weihmuller FB, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):113-7

[A cloned protein belonging to the G protein-coupled receptor family has an essentially striatal distribution copying that of the major component of the D1 receptor] Vanderhaeghen JJ, et al. **Bull Mem Acad R Med Belg** 1990; 145(1-2):144-51 (Eng. Abstr.) **(Fre)**

[Modification by alpha-interferon of ethanol-induced changes in the level of opioid peptides in the rat striatum and hypophysis] Panchenko LF, et al. **Vopr Med Khim** 1990 May-Jun;36(3):71-3 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

Striatal afferents in the newt Triturus cristatus. Dubé L, et al. **Brain Behav Evol** 1990;35(4):212-26

Nuclear origin of thalamic afferents of the ventral striatum determines their relation to patch/matrix configurations in enkephalin-immunoreactivity in the rat. Berendse HW, et al. **J Chem Neuroanat** 1988 Jan-Feb;1(1):3-10

The 'marginal division': a new subdivision in the neostriatum of the rat. Shu SY, et al. **J Chem Neuroanat** 1988 May-Jun; 1(3):147-63

Nondopaminergic prefrontocortical efferent fibers modulate D1 receptor denervation supersensitivity in specific regions of the rat striatum. Herve D, et al. **J Neurosci** 1989 Nov; 9(11):3699-708

Organisation of the hyperstriatal projection to the ventral lateral geniculate nucleus in the chick (Gallus gallus). Ehrlich D, et al. **Neurosci Lett** 1989 Sep 25;104(1-2):1-6

Compartmental origins of striatal efferent projections in the cat. Jiménez-Castellanos J, et al. **Neuroscience** 1989; 32(2):297-321

The neostriatal mosaic: striatal patch-matrix organization is related to cortical lamination. Gerfen CR. **Science** 1989 Oct 20;246(4928):385-8

[Effect of histological technics on the volume and weight of various brain structures of rats at the early stages of life] Wegiel J, et al. **Neuropatol Pol** 1989;27(2):279-94 (Eng. Abstr.) **(Pol)**

BLOOD SUPPLY

Neovascularization in kainic acid-induced lesions of rat striatum. An immunohistochemical study with laminin. Shigematsu K, et al. **Brain Res** 1989 Nov 6;501(2):215-22

Acute hemichorea due to infarction in the corona radiata. Barinagarrementeria F, et al. **J Neurol** 1989 Sep; 236(6):371-2

Bilateral lenticulostriate arteriovenous malformations--case report. Minakawa T, et al. **Neurol Med Chir (Tokyo)** 1989 Jul;29(7):596-9

CYTOLOGY

Evidence for sublaminar organization of the cells of origin of the geniculo-striate pathway in the cat: a novel method for cortical deposition of HRP. Bowling DB. **Brain Res** 1989 Nov 13;502(1):180-6

Quinolinate and kainate neurotoxicity in neostriatal cultures is potentiated by co-culturing with neocortical neurons. Galarraga E, et al. **Brain Res** 1990 Apr 2;512(2):269-76

The centre médian and parafascicular thalamic nuclei project

respectively to the sensorimotor and associative-limbic striatal territories in the squirrel monkey. Sadikot AF, et al. **Brain Res** 1990 Feb 26;510(1):161-5

Mesostriatal projections in BALB/c and CBA mice: a quantitative retrograde neuroanatomical tracing study. Mattiace LA, et al. **Brain Res Bull** 1989 Jul-Aug; 23(1-2):61-8

Direct striatothalamic projections in the neonatal rat. Hattori T, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):137-41

Establishment of a long-term primary culture of striatal neurons. Sebben M, et al. **Brain Res Dev Brain Res** 1990 Mar 1;52(1-2):229-39

Morphology of neurons and axon terminals associated with descending and ascending pathways of the lateral forebrain bundle in Rana esculenta. Lázár G, et al. **Cell Tissue Res** 1990 May;260(3):535-48

Microiontophoresis of cocaine, desipramine, sulpiride, methysergide, and naloxone in habenula and parafasciculus. Dougherty PM, et al. **Exp Neurol** 1990 Jun;108(3):241-6

Astroglial cell alteration caused by neurotoxins: immunohistochemical observations with antibodies to glial fibrillary acidic protein, laminin, and tyrosine hydroxylase. Ogawa M, et al. **Exp Neurol** 1989 Nov;106(2):187-96

Connections of the subthalamic nucleus with ventral striatopallidal parts of the basal ganglia in the rat. Groenewegen HJ, et al. **J Comp Neurol** 1990 Apr 22; 294(4):607-22

Efferent projections of the subthalamic nucleus in the squirrel monkey as studied by the PHA-L anterograde tracing method. Smith Y, et al. **J Comp Neurol** 1990 Apr 8; 294(2):306-23

Spiny neurons lacking choline acetyltransferase immunoreactivity are major targets of cholinergic and catecholaminergic terminals in rat striatum. Pickel VM, et al. **J Neurosci Res** 1990 Mar;25(3):263-80

A clonal analysis of glial lineages in neonatal forebrain development in vitro. Vaysse PJ, et al. **Neuron** 1990 Sep; 5(3):227-35

Demonstration of a medial to lateral gradient in the density of cholinergic neuropil in the rat striatum. Burke RE, et al. **Neurosci Lett** 1990 Jan 1;108(1-2):58-64

Bilateral tectal projection of single nigrostriatal dopamine cells in the rat. Campbell KJ, et al. **Neuroscience** 1989; 33(2):311-21

Compartmental origins of the striatopallidal projection in the primate. Giménez-Amaya JM, et al. **Neuroscience** 1990; 34(1):111-26

Immortalization of bipotential and plastic glio-neuronal precursor cells. Evrard C, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3062-6

DRUG EFFECTS

Morphine affects prodynorphin gene expression in some areas of rat brain. Romualdi P, et al. **Ann Ist Super Sanita** 1990; 26(1):43-6

Estrous cycle-dependent variation in amphetamine-induced behaviors and striatal dopamine release assessed with microdialysis. Becker JB, et al. **Behav Brain Res** 1989 Nov 1;35(2):117-25

Effects of intrastriatal apomorphine on changes in switching behaviour induced by the glutamate agonist AMPA injected into the cat caudate nucleus. Jaspers RM, et al. **Behav Brain Res** 1990 Mar 26;37(3):247-54

Amphetamine microinjections into distinct striatal subregions cause dissociable effects on motor and ingestive behavior. Kelley AE, et al. **Behav Brain Res** 1989 Oct 1;35(1):27-39

Effects of intrastriatal hormones on the dorsal immobility response in the rat. Van Hartesveldt C, et al. **Behav Brain Res** 1989 Nov 1;35(2):111-5

Relation between motor asymmetry and direction of rotational behaviour under amphetamine and apomorphine in rats with unilateral degeneration of the nigrostriatal dopamine system. Ziegler MG, et al. **Behav Brain Res** 1990 Jul 9;39(2):123-33

Cocaine-sensitive, ATP-dependent dopamine uptake into striatal synaptosomes. Cao CJ, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):R9-14

1-Hydroxy-3-aminopyrrolid-2-one (HA-966) and kynurenate antagonize N-methyl-D-aspartate induced enhancement of [3H]dopamine release from rat striatal slices. Crawford M, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4165-8

Further evidence against the coupling of dopamine receptors to phosphoinositide hydrolysis in rat striatum. Rubinstein JE, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1965-70

Suppression of conditioned avoidance behavior by the local application of (-)sulpiride into the ventral, but not the dorsal, striatum of the rat. Wadenberg ML, et al. **Biol Psychiatry** 1990 Aug 15;28(4):297-307

Rescuing neurons from trans-synaptic degeneration after brain damage: helpful, harmful, or neutral in recovery of function? Schallert T, et al. **Can J Psychol** 1990 Jun; 44(2):276-92

Striatal homogenates from animals chronically treated with haloperidol stimulate dopamine and GABA uptake in cultures of rostral mesencephalic tegmentum. Carvey PM, et al. **Clin Neuropharmacol** 1989 Oct;12(5):425-34

In vitro effect of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) on muscarinic cholinergic receptors in mouse striatum. Suh YH, et al. **Comp Biochem Physiol [C]** 1989;94(2):625-9

(+/-)-3,4-Methylenedioxymethamphetamine-induced changes in the basal activity and pharmacological responsiveness of nigrostriatal dopamine neurons. Kelland MD, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):11-21

Topography of dopamine D-1 and D-2 receptor-mediated rotation after intrastriatal injections of dopamine-related drugs in normosensitive rats. Konitsiotis S, et al. **Eur J Pharmacol** 1990 Apr 10;179(1-2):201-5

Different sensitivities to MPTP toxicity in primate nigrostriatal and retinal dopaminergic systems: electrophysiological and biochemical evidence. Harnois C, et al. **Exp Eye Res** 1989 Oct;49(4):543-52

Implantable microencapsulated dopamine (DA): prolonged functional release of DA in denervated striatal tissue. McRae A, et al. **J Neural Transm Suppl** 1990;29:207-15

Rapid desensitization of dopamine release induced by neurotensin and neurotensin fragments. Faggin BM, et al. **J Pharmacol Exp Ther** 1990 May;253(2):812-8

Role of opiates in striatal D-1 dopamine receptor supersensitivity induced by chronic L-dopa treatment. Groppetti A, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):950-6

Effects of the selective adenosine A2 receptor agonist CGS 21680 on in vitro electrophysiology, cAMP formation and dopamine release in rat hippocampus and striatum. Lupica CR, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1134-41

Attenuation by dopamine uptake blockers of the inhibitory effects of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine and some of its analogs on NADH-linked metabolism in mouse neostriatal slices. Ofori S, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):258-66

Muscarinic receptors mediating inhibition of gamma-aminobutyric acid release in rat corpus striatum and their pharmacological characterization. Raiteri M, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):496-501

Adaptive mechanisms of striatal D1 and D2 dopamine receptors in response to a prolonged reserpine treatment in mice. Rubinstein M, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):810-6

Differential effects of phorbol ester on prefrontal cortex and striatal dopamine terminals: dependence on rate and duration of stimulation. Talmaciu RK, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1160-5

Stimulation of a dopamine D1 receptor enhances inositol phosphates formation in rat brain. Undie AS, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):987-92

Pharmacological properties of the N-methyl-D-aspartate receptor system coupled to the evoked release of gamma-[3H] aminobutyric acid from striatal neurons in primary culture. Weiss S. **J Pharmacol Exp Ther** 1990 Jan; 252(1):380-6

Ascorbic acid inhibits [3H]SCH-23390 binding to striatal dopamine D1 receptors. Wiener HL, et al. **J Recept Res** 1989;9(4-5):331-9

Activation of adenosine A1 receptor by N6-(R)-phenylisopropyladenosine (R-PIA) inhibits forskolin-stimulated tyrosine hydroxylase activity in rat striatal synaptosomes. Olianas MC, et al. **Life Sci** 1990; 46(8):591-8

Increases in rat striatal preproenkephalin mRNA levels following chronic treatment with the depot neuroleptic, haloperidol decanoate. Petrack B, et al. **Life Sci** 1990; 46(10):687-91

Differential effects of phencyclidine (PCP) and ketamine on mesocortical and mesostriatal dopamine release in vivo. Rao TS, et al. **Life Sci** 1989;45(12):1065-72

Retrograde amnesia produced by intrastriatal atropine and its reversal by choline. Solana-Figueroa R, et al. **Life Sci** 1990;46(10):679-86

Dopamine agonist-induced elevation of striatal acetylcholine: relationship between receptor occupancy and response in normal and denervated rat striatum. Enz A, et al. **Mol Pharmacol** 1990 Apr;37(4):560-5

Kainate receptors coupled to the evoked release of [3H]-gamma-aminobutyric acid from striatal neurons in primary culture: potentiation by lithium ions. Weiss S, et al. **Mol Pharmacol** 1990 Aug;38(2):229-36

Intrastriatal injection of DL-alpha-aminoadipate reduces kainate toxicity in vitro. McBean GJ. **Neuroscience** 1990; 34(1):225-34

One-trial conditioned rotation in rats. Silverman PB. **NIDA Res Monogr** 1989;95:540-1

Neuropeptide-dopamine interactions. V. Cyclo(His-Pro) regulation of striatal dopamine transporter complex. Ikegami H, et al. **Peptides** 1990 Jan-Feb;11(1):145-8

Corticostriatal and thalamic regulation of amphetamine-induced ascorbate release in the neostriatum. Basse-Tomusk A, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):55-60

Interactions of nicotinamide with dopamine receptors in vivo. Dorris RL. **Pharmacol Biochem Behav** 1989 Aug; 33(4):915-7

Pargyline increases 6-hydroxydopamine levels in the neostriatum of methamphetamine-treated rats. Marek GJ, et al. **Pharmacol Biochem Behav** 1990 May;36(1):187-90

Delta 9-tetrahydrocannabinol facilitates striatal dopaminergic transmission. Sakurai-Yamashita Y, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):397-400

Effects of intrastriatal hormones on the dorsal immobility response in male rats. Van Hartesveldt C, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):307-10

Decreases in behavioral and striatal neuronal responses to dexamphetamine with aging. Warenycia MW, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):489-91

Intrastriatal infusions of ascorbate antagonize the behavioral response to amphetamine. White LK, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):485-9

Peptidergic control of male rat sexual behavior: the effects of intracerebral injections of substance P and cholecystokinin. Dornan WA, et al. **Physiol Behav** 1989 Sep;46(3):547-56

Protective effects of chronic nicotine treatment on lesioned nigrostriatal dopamine neurons in the male rat. Janson AM, et al. **Prog Brain Res** 1989;79:257-65

Ovariectomy and subchronic estradiol-17 beta administration decrease dopamine D1 and D2 receptors in rat striatum. Tonnaer JA, et al. **Psychoneuroendocrinology** 1989; 14(6):469-76

Ultrastructural changes of the substantia nigra, ventral tegmental area and striatum in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-treated mice. Mizukawa K, et al. **Res Commun Chem Pathol Pharmacol** 1990 Mar; 67(3):307-20

Effects of haloperidol and clozapine on preprotachykinin-A messenger RNA, tachykinin tissue levels, release and neurokinin-1 receptors in the striato-nigral system. Humpel C, et al. **Synapse** 1990;6(1):1-9

Excitotoxic injury of the neostriatum: a model for Huntington's disease. DiFiglia M. **Trends Neurosci** 1990 Jul;13(7):286-9 (62 ref.)

[The effect of prolyl-leucyl-glycine (MIF-1) and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine on dopamine levels of the striatum] Sheng JG. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Aug; 22(4):213-5, 253 (Eng. Abstr.) **(Chi)**

[Effect of damage of the nigro-neostriatal dopaminergic system by MPTP on the transmission of corticofugal impulses to the neurons of the caudate nucleus] Oleshko NN. **Fiziol Zh** 1989 Nov-Dec;35(6):33-9 (Eng. Abstr.) **(Rus)**

[Excitation and inhibition processes in the neurons of the thalamic motor nuclei of normal cats and following an N-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced lesion of the nigrostriatal dopaminergic system] Voloshin MIa, et al. **Neirofiziologiia** 1989;21(5):620-9 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

In vitro regulation of neuronal morphogenesis and polarity by astrocyte-derived factors. Rousselet A, et al. **Dev Biol** 1990 Jan;137(1):33-45

ENZYMOLOGY

Age-determined changes in the effects of a newly synthetized cholinesterase inhibitor on exploratory behavior, memory and striatal cholinesterase activity in rats. Castellano C, et al. **Acta Physiol Pharmacol Bulg** 1989;15(3):3-9

Neuromediated myeloperoxidase deficiency [letter] Cocchi P, et al. **Am J Dis Child** 1990 Jul;144(7):746

Guanine nucleotides regulate the effect of substance P on striatal adenylate cyclase of the rat. Moser A. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):211-5

Neurochemical and behavioral correlates of unilateral striatal acetylcholinesterase inhibition by fasciculin in rats. Bolioli B, et al. **Brain Res** 1989 Dec 11;504(1):1-6

Loss of striatal angiotensin-converting enzyme following intrastriatal AF64A is not related to destruction of cholinergic interneurons. Walters DE, et al. **Brain Res** 1990 Jan 15;507(1):23-7

Acetylcholinesterase-containing neurons in the striatum, septum and hippocampus of the rat in embryonic culture and adult in situ. Shingai R, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):200-7

The effect of vasoactive intestinal polypeptide (VIP) on forskolin stimulated adenylate cyclase in the caudate-putamen of the rat. Moser A, et al. **Exp Brain Res** 1990;79(2):383-7

Changes in glutamate-related enzyme activities in the striatum of the rat following lesion of corticostriatal fibres. Rothe F, et al. **Exp Brain Res** 1990;79(2):400-4

gamma-Glutamyltransferase activity is unchanged in acutely quinolinate-lesioned rat neostriatum but is elevated in Huntington's disease caudate. Zhu SG, et al. **Exp Neurol** 1990 Jan;107(1):106-9

The development of activity of lactate dehydrogenase (EC 1.1.1.27) in the areas of nigro-striatal pathway during the ontogenesis of pig. Jaworska-Adamu J. **Folia Histochem Cytobiol** 1989;27(3):131-40

In vivo spectrophotometric determination of striatal acetylcholinesterase activity: the modulation induced by the antidepressant amitriptyline. Chappey O, et al. **J Neurochem** 1990 Jan;54(1):333-8

Mu-opioid receptors mediate the inhibitory effect of opioids on dopamine-sensitive adenylate cyclase in primary cultures of rat neostriatal neurons. Van Vliet BJ, et al. **J Neurochem** 1990 Oct;55(4):1274-80

Electron microscopic localization of immunoreactive enkephalinase (EC 3.4.24.11) in the neostriatum of the rat. Marcel D, et al. **J Neurosci** 1990 Aug;10(8):2804-17

Purification of dopa decarboxylase from bovine striatum. Siow YL, et al. **Mol Cell Biochem** 1990 May 10; 94(2):121-31

Effect of aging on NADPH-diaphorase neurons in

laterodorsal tegmental nucleus and striatum of mice. Kawamata T, et al. **Neurobiol Aging** 1990 May-Jun; 11(3):185-92

Inhibition of angiotensin converting enzyme by N-terminal fragments of substance P. Rogerson FM, et al. **Neuropeptides** 1989 Nov-Dec;14(4):213-7

Tetrahydroaminoacridine inhibits human and rat brain monoamine oxidase. Adem A, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):313-7

Lamotrigine protects against kainate but not ibotenate lesions in rat striatum. McGeer EG, et al. **Neurosci Lett** 1990 May 4;112(2-3):348-51

GROWTH & DEVELOPMENT

Spine density on neostriatal neurones changes with 6-hydroxydopamine lesions and with age. Ingham CA, et al. **Brain Res** 1989 Dec 4;503(2):334-8

Postnatal development of the electrical activity of rat nigrostriatal dopaminergic neurons. Tepper JM, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):21-33

Neurogenetic patterns in the medial limbic cortex of the rat related to anatomical connections with the thalamus and striatum. Bayer SA. **Exp Neurol** 1990 Feb;107(2):132-42

Prenatal cocaine exposure fails to modify neurobehavioral responses and the striatal dopaminergic system in newborn rats. Fung YK, et al. **Gen Pharmacol** 1989;20(5):689-93

Developmental profile of striatal preprotachykinin gene expression. Haverstick DM, et al. **J Neurochem** 1990 Sep; 55(3):764-8

METABOLISM

Synaptophysin expression in the striatum in Huntington's disease. Goto S, et al. **Acta Neuropathol (Berl)** 1990; 80(1):88-91

Modified Bielschowsky stain and immunohistochemical studies on striatal plaques in Alzheimer's disease. Suenaga T, et al. **Acta Neuropathol (Berl)** 1990;80(3):280-6

Calcium-antagonist effect on purine release from dissociated primary glial cultures of rat striatum. Caciagli F, et al. **Acta Physiol Hung** 1990;75 Suppl:43-4

Comparison of the effects of (-)deprenyl, 1-phenyl-2-propyl-aminopentane (MK-306) and amphetamine on the striatal and limbic dopaminergic system. Timár J, et al. **Acta Physiol Hung** 1990;75 Suppl:279-80

Extracellular levels of quinolinic acid are moderately increased in rat neostriatum following severe insulin-induced hypoglycaemia. Westerberg E, et al. **Acta Physiol Scand** 1990 Mar;138(3):417-22

Methanol-induced monoamine changes in hypothalamus and striatum of albino rats. Jeganathan PS, et al. **Alcohol** 1989 Nov-Dec;6(6):451-4

Comparison of the central and renal dopamine-1 receptor. Sidhu A, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):37S-39S

Striatal D2 dopaminergic receptors assessed with positron emission tomography and [76Br]bromospiperone in untreated schizophrenic patients. Martinot JL, et al. **Am J Psychiatry** 1990 Jan;147(1):44-50

Deprenyl suppresses the oxidant stress associated with increased dopamine turnover. Cohen G, et al. **Ann Neurol** 1989 Nov;26(5):689-90

Age-related changes in the human nigrostriatal dopaminergic system. De Keyser J, et al. **Ann Neurol** 1990 Feb; 27(2):157-61

Does adrenal graft enhance recovery of dopaminergic neurons in Parkinson's disease? Hirsch EC, et al. **Ann Neurol** 1990 Jun;27(6):676-82

Nigrostriatal function in humans studied with positron emission tomography. Martin WR, et al. **Ann Neurol** 1989 Oct;26(4):535-42

Striatal dopamine deficiency in Parkinson's disease: role of aging. Scherman D, et al. **Ann Neurol** 1989 Oct;26(4):551-7

Selective sparing of NADPH-diaphorase-somatostatin-neuropeptide Y neurons in ischemic gerbil striatum. Uemura Y, et al. **Ann Neurol** 1990 Jun;27(6):620-5

The dopamine transporter and cytochrome P45OIID1 (debrisoquine 4-hydroxylase) in brain: resolution and identification of two distinct [3H]GBR-12935 binding proteins. Niznik HB, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):424-32

The relative abilities of MPTP and MPP+ to compete with [3H]dopamine for the rat and marmoset striatal dopamine uptake site. Barnes NM, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):809-11

Influence of anti-tubulin antibodies on muscarinic receptor modulation of G protein GTPase activity in rat striatum. Ravindra R, et al. **Biochem Pharmacol** 1990 Aug 1; 40(3):457-63

Dopamine D1 receptors of the calf parathyroid gland: identification of a ligand binding subunit with lower apparent molecular weight but similar primary structure to neuronal D1-receptors. Niznik HB, et al. **Biochemistry** 1989 Aug 22;28(17):6925-30

The antihypoxic effect of ethymisole: a comparison with other nootropic drugs. Fischer HD, et al. **Biomed Biochim Acta** 1989;48(10):843-7

2-chloroadenosine attenuates kainic acid-induced toxicity within the rat straitum: relationship to release of glutamate and Ca2+ influx. Arvin B, et al. **Br J Pharmacol** 1989 Sep;98(1):225-35

Effects of B-HT 920 on nigrostriatal and mesolimbic dopamine systems in normosensitive and supersensitive rats. Clarke PB, et al. **Br J Pharmacol** 1990 Mar;99(3):509-15

Regulation of the synthesis and metabolism of striatal dopamine after disruption of nerve conduction in the medial forebrain bundle. Commissiong JW, et al. **Br J Pharmacol** 1990 Apr;99(4):741-9

Modulation of sodium current kinetics by chlorpromazine in freshly-isolated striatal neurones of the adult guinea-pig. Ogata N, et al. **Br J Pharmacol** 1989 Dec;98(4):1173-84

Fluctuations in response to L-dopa in Parkinson's disease may be explained by changes in striatal dopamine turnover. Rose S, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:816P

The effects of serotonergic and dopaminergic lesions on sodium-sensitive [3H]mazindol binding in rat hypothalamus and corpus striatum. Angel I, et al. **Brain Res** 1989 Dec 4;503(2):339-41

Striatal muscarinic receptors are associated with substance P and somatostatin containing neurons. Ariano MA, et al. **Brain Res** 1989 Sep 11;497(1):51-8

Transient forebrain ischemia produces multiple deficits in dopamine D1 transmission in the lateral neostriatum of the rat. Benfenati F, et al. **Brain Res** 1989 Oct 2;498(2):376-80

In vivo studies on the enhancement of cholecystokinin release in the rat striatum by dopamine depletion. Butcher SP, et al. **Brain Res** 1989 Dec 25;505(1):119-22

Reserpine enhances amphetamine stereotypies without increasing amphetamine-induced changes in striatal dialysate dopamine. Callaway CW, et al. **Brain Res** 1989 Dec 25;505(1):83-90

Dopamine depletion in neonatal rats: effects on behavior and striatal dopamine release assessed by intracerebral microdialysis during adulthood. Castañeda E, et al. **Brain Res** 1990 Jan 29;508(1):30-9

Coupling of D1 dopamine receptors to the guanine nucleotide binding protein Gs is deficient in Huntington's disease. De Keyser J, et al. **Brain Res** 1989 Sep 4;496(1-2):327-30

In vitro progesterone modulation of amphetamine-stimulated dopamine release from the corpus striatum of ovariectomized estrogen-treated female rats: response characteristics. Dluzen DE, et al. **Brain Res** 1990 May 28; 517(1-2):117-22

Dopamine uptake inhibitory capacities of beta-carboline and 3,4-dihydro-beta-carboline analogs of N-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) oxidation products. Drucker G, et al. **Brain Res** 1990 Feb 12;509(1):125-33

Chloride ion increases [3H]dopamine accumulation by synaptic vesicles purified from rat striatum: inhibition by thiocyanate ion. Erickson JD, et al. **Brain Res** 1990 May 14;516(1):155-60

Human striatal cholinergic neurons in development, aging and Alzheimer's disease. Geula C, et al. **Brain Res** 1990 Feb 5;508(2):310-2

Autoradiographic studies in animal models of hemi-parkinsonism reveal dopamine D2 but not D1 receptor supersensitivity. I. 6-OHDA lesions of ascending mesencephalic dopaminergic pathways in the rat. Graham WC, et al. **Brain Res** 1990 Apr 23;514(1):93-102

Effect of aging on concentrations of D2-receptor-containing neurons in the rat striatum. Han Z, et al. **Brain Res** 1989 Oct 2;498(2):299-307

Monoaminergic activity at the level of the hypothalamus and striatum: relationship to anticipated feeding and pancreatic insulin responses. Holmes LJ, et al. **Brain Res** 1989 Sep 4;496(1-2):204-10

Apomorphine does not reverse reduced basal dopamine release in rat striatum and nucleus accumbens after chronic haloperidol treatment. Ichikawa J, et al. **Brain Res** 1990 Jan 15;507(1):138-42

Differential modulation of striatonigral dynorphin and enkephalin by dopamine receptor subtypes. Jiang HK, et al. **Brain Res** 1990 Jan 15;507(1):57-64

Reduction of motor behavioural deficits in senescence via chronic prolactin or estrogen administration: time course and putative mechanisms of action. Joseph JA, et al. **Brain Res** 1989 Dec 29;505(2):195-202

Ceruletide, a cholecystokinin-related peptide, attenuates haloperidol-induced increase in dopamine release from the rat striatum: an in vivo microdialysis study. Kihara T, et al. **Brain Res** 1990 Jun 11;519(1-2):44-9

Posthoc phosphorylation of proteins derived from ischemic rat hippocampus, striatum and neocortex. Kirschenbaum B, et al. **Brain Res** 1990 Mar 12;511(1):21-9

The effect of nicotine on catecholaminergic storage vesicles. Kramer HK, et al. **Brain Res** 1989 Dec 4;503(2):296-8

Non-additivity of D2 receptor proliferation induced by dopamine denervation and chronic selective antagonist administration: evidence from quantitative autoradiography indicates a single mechanism of action. LaHoste GJ, et al. **Brain Res** 1989 Nov 20;502(2):223-32

Direct observation of dopamine compartmentation in striatal nerve terminal by 'in vivo' measurement of the specific activity of released dopamine. Leviel V, et al. **Brain Res** 1989 Oct 16;499(2):205-13

Striosomal organization of cholinergic and dopaminergic uptake sites and cholinergic M1 receptors in the adult human striatum: a quantitative receptor autoradiographic study. Lowenstein PR, et al. **Brain Res** 1990 Feb 26; 510(1):122-6

Regulation of neurotensin-containing neurons in the rat striatum and substantia nigra. Effects of unilateral nigral lesion with 6-hydroxydopamine on neurotensin content and its binding site density. Masuo Y, et al. **Brain Res** 1990 Mar 5;510(2):203-10

Dopamine D2 receptors exert tonic regulation over discrete neurotensin systems of the rat brain. Merchant KM, et al. **Brain Res** 1989 Oct 23;500(1-2):21-9

Uric acid levels and dopamine transmission in rat striatum: diurnal changes and effects of drugs. O'Neill RD. **Brain Res** 1990 Jan 22;507(2):267-72

Presynaptic regulation of dopamine release in corpus striatum monitored in vitro in real time by fast cyclic voltammetry. Palij P, et al. **Brain Res** 1990 Feb 12;509(1):172-4

Lack of change in striatal DARPP-32 levels following nigrostriatal dopaminergic lesions in animals and in parkinsonian syndromes in man. Raisman-Vozari R, et al. **Brain Res** 1990 Jan 15;507(1):45-50

D1-dopamine receptor agonists selectively activate striatal c-fos independent of rotational behaviour. Robertson HA, et al. **Brain Res** 1989 Dec 4;503(2):346-9

Long-term treatment with antipsychotics does not alter the phosphoinositide response to muscarinic or D2 dopaminergic agonists in rat striatum. Rubinstein JE, et al. **Brain Res** 1989 Sep 4;496(1-2):385-8

Release of histamine in rat hypothalamus and corpus striatum in vivo. Russell WL, et al. **Brain Res** 1990 Mar 26; 512(1):95-101

Dramatic increase in nigral t-[35S]butylbicyclophosphorothionate binding sites elicited by the degeneration of the striato-nigral GABAergic pathway: reversal by diazepam. Sanna E, et al. **Brain Res** 1989 Oct 30;501(1):144-9

A cloned G protein-coupled protein with a distribution restricted to striatal medium-sized neurons. Possible relationship with D1 dopamine receptor. Schiffmann SN, et al. **Brain Res** 1990 Jun 11;519(1-2):333-7

Disappearance of the mu-opiate receptor patches in the rat neostriatum following lesioning of the ipsilateral nigrostriatal dopamine pathway with 1-methyl-4-phenylpyridinium ion (MPP+): restoration by embryonic nigral dopamine grafts. Sirinathsinghji DJ, et al. **Brain Res** 1989 Dec 11;504(1):115-20

D1 dopamine receptor-mediated substance P depletion in the striatonigral neurons of rats subjected to neonatal dopaminergic denervation: implications for self-injurious behavior. Sivam SP. **Brain Res** 1989 Oct 23;500(1-2):119-30

The effects of L-dopa on in vitro dopamine release from striatum. Snyder GL, et al. **Brain Res** 1990 Feb 5; 508(2):181-7

Striatal dopamine terminals release serotonin after 5-HTP pretreatment: in vivo voltammetric data. Stamford JA, et al. **Brain Res** 1990 May 7;515(1-2):173-80

Neurotensin counteracts apomorphine-induced inhibition of dopamine release as studied by microdialysis in rat neostriatum. Tanganelli S, et al. **Brain Res** 1989 Nov 20; 502(2):319-24

Regulation of striatonigral prodynorphin peptides by dopaminergic agents. Trujillo KA, et al. **Brain Res** 1990 Jun 4;518(1-2):244-56

Modulation by muscarine and opioid receptors of acetylcholine release in slices from striato-striatal grafts in the rat. Wichmann T, et al. **Brain Res** 1990 Mar 5; 510(2):296-302

A neurochemical heterogeneity of the rat striatum as measured by in vivo electrochemistry and microdialysis. Yamamoto BK, et al. **Brain Res** 1990 Jan 8;506(2):236-42

Frontal decortication decreases the affinity of N-(1-[2-thienyl]cyclohexyl)[3H]piperidine binding to rat striatum. Yoshida Y, et al. **Brain Res** 1989 Oct 9; 499(1):179-83

Acetaldehyde directly enhances MPP+ neurotoxicity and delays its elimination from the striatum. Zuddas A, et al. **Brain Res** 1989 Oct 30;501(1):11-22

Localization studies of gamma-hydroxybutyrate receptors in rat striatum and hippocampus. Hechler V, et al. **Brain Res Bull** 1989 Jul-Aug;23(1-2):129-35

Effect of the rat estrous cycle at ovariectomy on striatal D-1 dopamine receptors. Lévesque D, et al. **Brain Res Bull** 1990 Feb;24(2):281-4

High density of zinc-containing and dynorphin B- and substance P-immunoreactive terminals in the marginal division of the rat striatum. Shu SY, et al. **Brain Res Bull** 1990 Feb;24(2):201-5

Postnatal development of striatal dopamine function. I. An examination of D1 and D2 receptors, adenylate cyclase regulation and presynaptic dopamine markers. Broaddus WC, et al. **Brain Res Dev Brain Res** 1990 Mar 1; 52(1-2):265-71

Postnatal development of striatal dopamine function. II. Effects of neonatal 6-hydroxydopamine treatments on D1 and D2 receptors, adenylate cyclase activity and presynaptic dopamine function. Broaddus WC, et al. **Brain Res Dev Brain Res** 1990 Mar 1;52(1-2):273-7

Postnatal development of dopamine D1 and D2 receptor sites in rat striatum. Gelbard HA, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):123-30

Dopamine receptors expressed in the Xenopus oocytes injected with bovine striatal mRNA. Sakai Y, et al. **Brain Res Mol Brain Res** 1990 Feb;7(2):183-7

Striatal dopamine receptor supersensitivity after long-term haloperidol treatment of hypophysectomized rats. DeLucia R, et al. **Braz J Med Biol Res** 1989;22(6):741-3

Dopamine D1 and D2 receptors in spontaneously

hypertensive rat brain striatum. Watanabe M, et al. **Can J Physiol Pharmacol** 1989 Dec;67(12):1596–7

Factors regulating the activity of striatal neurons: new perspectives from in situ hybridization histochemistry. Morris B. **Cell Mol Neurobiol** 1990 Mar;10(1):51–8 (41 ref.)

Association of two pertussis toxin–sensitive G–proteins with the D2–dopamine receptor from bovine striatum. Elazar Z, et al. **EMBO J** 1989 Aug;8(8):2353–7

Glucocorticoid regulation of preproenkephalin messenger ribonucleic acid in the rat striatum. Chao HM, et al. **Endocrinology** 1990 Jun;126(6):3124–30

Changes in the kinetics of [3H]dopamine release from median eminence and striatal synaptosomes during aging. Gregerson KA, et al. **Endocrinology** 1990 Jan;126(1):228–34

Discriminatory roles for D1 and D2 dopamine receptor subtypes in the in vivo control of neostriatal cyclic GMP. Altar CA, et al. **Eur J Pharmacol** 1990 May 31; 181(1–2):17–21

[3H]cocaine binding and inhibition of [3H]dopamine uptake is similar in both the rat striatum and nucleus accumbens. Boja JW, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):215–7

In vivo modulation of striatal phosphoproteins by dopaminergic agents. Di Luca M, et al. **Eur J Pharmacol** 1989 Oct 17;172(4–5):321–8

Diethyldithiocarbamate and disulfiram inhibit MPP+ and dopamine uptake by striatal synaptosomes. Di Monte D, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):23–9

Paraxanthine displaces the binding of [3H]SCH 23390 from rat striatal membranes. Ferré S, et al. **Eur J Pharmacol** 1990 Apr 25;179(3):295–9

BHT–920 and LY–171555 (quinpirole) have similar affinities for striatal D–2 dopamine receptors, and similar affinities for striatal D–1 dopamine receptors. Ferré S, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):303–5

Are the catecholestrogens involved in estrogen–induced striatal dopamine receptor supersensitivity? Ferretti C, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):149–56

The effect of chronic clozapine and haloperidol on basal dopamine release and metabolism in rat striatum and nucleus accumbens studied by in vivo microdialysis. Ichikawa J, et al. **Eur J Pharmacol** 1990 Feb 13; 176(3):371–4

1–methyl–4–phenylpyridinium (MPP+) analogs: in vivo neurotoxicity and inhibition of striatal synaptosomal dopamine uptake. Johnson EA, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):65–74

Dopamine D–1 but not D–2 receptor stimulation of the dorsal striatum potentiates apomorphine–induced jaw movements in rats. Koshikawa N, et al. **Eur J Pharmacol** 1990 Mar 20;178(2):189–94

Effects of acute GR38032F (odansetron), a 5–HT3 receptor antagonist, on dopamine and serotonin metabolism in mesolimbic and nigrostriatal dopaminergic neurons. Koulu M, et al. **Eur J Pharmacol** 1989 Oct 10;169(2–3):321–4

Glycine potentiates the NMDA–induced release of dopamine through a strychnine–insensitive site in the rat striatum. Krebs MO, et al. **Eur J Pharmacol** 1989 Aug 3; 166(3):567–70

Systemic administration of 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine reduces the release of [3H]dopamine from rat striatal slices. Kurstjens NP, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):147–52

Dopaminergic inhibition of striatal acetylcholine release after 6–hydroxydopamine. MacKenzie RG, et al. **Eur J Pharmacol** 1989 Sep 1;168(1):43–52

Effects of MPP+ on the release of serotonin and 5–hydroxyindolesecetic acid from rat striatum in vivo. Miyake H, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):49–55

Repeated administration of lisuride down–regulates dopamine D–2 receptor function in mesostriatal and in mesolimbocortical rat brain regions. Nisoli E, et al. **Eur J Pharmacol** 1990 Jan 25;176(1):85–90

Chronic treatment with MK–801 increases the quinolinic acid–induced loss of D–1 dopamine receptors in rat striatum. Norman AB, et al. **Eur J Pharmacol** 1990 Feb 13;176(3):363–6

Repeated electroconvulsive shock (ECS) enhances striatal D–1 dopamine receptor turnover in rats. Nowak G, et al. **Eur J Pharmacol** 1989 Aug 22;167(2):307–8

Stimulation of synaptosomal dopamine synthesis by corticotropin–releasing factor in rat striatum: role of Ca2+–dependent mechanisms. Olianas MC, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):165–74

Striatal and nucleus accumbens D1/D2 dopamine receptors in neuroleptic catalepsy. Osowska K, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):327–34

Cross–linking of human 125I–beta–endorphin to a mu–delta opioid receptor complex in rat striatum. Schoffelmeer AN, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):357–8

Single apomorphine pretreatment results in a rapid decline in high–affinity dopamine binding to the striatal dopamine D–2 receptor. Severson JA, et al. **Eur J Pharmacol** 1990 Apr 25;188(4–5):283–6

Comparison of [3H]YM–09151–2 with [3H]spiperone and [3H]raclopride for dopamine d–2 receptor binding to rat striatum. Terai M, et al. **Eur J Pharmacol** 1989 Dec 7; 173(2–3):177–82

The enantiomers of the dopamine agonist N–0437: in vivo and in vitro effects on the release of striatal dopamine. Timmerman W, et al. **Eur J Pharmacol** 1989 Jul 4; 166(1):1–11

Effects of cholinergic drugs on extracellular levels of acetylcholine and choline in rat cortex, hippocampus and striatum studied by brain dialysis. Toide K, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):133–41

Relationship between the effects of dexamphetamine on locomotion and on striatal [3H]GBR 12783 binding in vivo. Vaugeois JM, et al. **Eur J Pharmacol** 1990 Mar 20; 178(2):221–7

Dopamine receptor plasticity following MPTP–induced nigrostriatal lesions in the mouse. Weihmuller FB, et al. **Eur J Pharmacol** 1990 May 16;180(2–3):369–72

Adenosine agonists can both inhibit and enhance in vivo striatal dopamine release. Zetterström T, et al. **Eur J Pharmacol** 1990 May 3;180(1):137–43

Investigation of rat striatal dopamine D–1 receptors solubilized by digitonin with a precipitation method. Zhang X, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):401–10

Degeneration and graft–induced restoration of dopamine innervation in the weaver mouse neostriatum: a quantitative radioautographic study of [3H]dopamine uptake. Doucet G, et al. **Exp Brain Res** 1989;77(3):552–68

Dopamine D1 heteroreceptors on striatonigral axons are not stimulated by endogeneous dopamine either tonically or after amphetamine: evidence from terminal excitability. Ryan LJ, et al. **Exp Brain Res** 1989;77(1):161–5

The effect of L–dopa upon in vitro dopamine release from the corpus striatum of young and old male rats. Dluzen DE, et al. **Exp Neurol** 1989 Dec;106(3):259–64

Two forms of the rat D2 dopamine receptor as revealed by the polymerase chain reaction. Rao DD, et al. **FEBS Lett** 1990 Apr 9;263(1):18–22

Photoaffinity labeling of the mammalian dopamine transporter. Sallee FR, et al. **FEBS Lett** 1989 Oct 9; 256(1–2):219–24

Time–related changes in serum perphenazine, striatal 3H–spiperone binding and regional brain acid metabolites of dopamine and 5–hydroxy–tryptamine after a single dose of perphenazine. Mjörndal T, et al. **Fundam Clin Pharmacol** 1990;4(2):213–22

Characteristics and displaceability of neurotensin binding sites in the rat cerebral cortex and corpus striatum. Awad EW, et al. **Gen Pharmacol** 1989;20(6):725–9

Effect of the inhibition of dopamine uptake on the dopamine– and dimethyldopamine–induced–inhibition of the potassium–evoked release of [3H]acetylcholine from striatal slices. Farooqui T, et al. **Gen Pharmacol** 1989;20(6):731–6

Effects of probenecid on striatal dopamine depletion in acute and long–term 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine (MPTP)–treated mice. Lau YS, et al. **Gen Pharmacol** 1990; 21(2):181–7

Effect of helium–oxygen pressure on dopamine detected in vivo in the striatum of hamsters. Forni C, et al. **J Appl Physiol** 1989 Oct;67(4):1617–22

In vivo and in vitro synthesis, release, and uptake of [3–H]–dopamine in mouse striatal slices after in vivo exposure to chlordecone. Fujimori K, et al. **J Biochem Toxicol** 1986 Dec;1(4):1–12

A novel affinity purification of D–1 dopamine receptors from rat striatum. Sidhu A. **J Biol Chem** 1990 Jun 15; 265(17):10065–72

A double–injection technique for in vivo measurement of dopamine D2–receptor density in monkeys with 3–(2'–[18F]fluoroethyl)spiperone and dynamic positron emission tomography. Huang SC, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):850–8

Selective, unilateral cortical infarction increases striatal muscarinic receptor binding: potential evidence for cortical modulation of intrastriatal cholinergic transmission. Filloux F, et al. **J Chem Neuroanat** 1990 Mar–Apr;3(2):125–32

Autoradiographic evidence for the localization of high affinity neurotensin binding sites on dopaminergic nerve terminals in the nigrostriatal and mesolimbic pathways in rat brain. Schotte A, et al. **J Chem Neuroanat** 1989 Sep–Oct; 2(5):253–7

Studies on the uptake of N–methylisoquinolinium ion into rat striatal slices using high–performance liquid chromatography with fluorimetric detection. Hirata Y, et al. **J Chromatogr** 1990 Mar 9;503(1):189–95

Multi–dimensional high–performance liquid chromatography of opioid peptides following pre–column derivatization with naphthalene–2,3–dicarboxaldehyde in the presence of cyanide ion. Preliminary results on the determination of leucine– and methionine–enkephalin–like fluorescence in the striatum region of the rat brain. Mifune M, et al. **J Chromatogr** 1989 Nov 10;496(1):55–70

Sources of neostriatal cholecystokinin in the cat. Adams CE, et al. **J Comp Neurol** 1990 Feb 22;292(4):563–74

Extensive co–occurrence of substance P and dynorphin in striatal projection neurons: an evolutionarily conserved feature of basal ganglia organization. Anderson KD, et al. **J Comp Neurol** 1990 May 15;295(3):339–69

Patterns of tachykinin expression and localization in developing feline neostriatum. Boylan MK, et al. **J Comp Neurol** 1990 Mar 1;293(1):151–63

Compartment–specific changes in the density of choline and dopamine uptake sites and muscarinic and dopaminergic receptors during the development of the baboon striatum: a quantitative receptor autoradiographic study. Lowenstein PR, et al. **J Comp Neurol** 1989 Oct 15;288(3):428–46

Compartmental organization of the ventral striatum of the rat: immunohistochemical distribution of enkephalin, substance P, dopamine, and calcium–binding protein. Voorn P, et al. **J Comp Neurol** 1989 Nov 8;289(2):189–201

Postnatal development of striatal neurotensin immunoreactivity in relation to clusters of substance P immunoreactive neurons and the "dopamine islands" in the rat. Zahm DS, et al. **J Comp Neurol** 1990 Jun 15; 296(3):403–14

Synthesis of 3–arylecgonine analogues as inhibitors of cocaine binding and dopamine uptake. Kline RH Jr, et al. **J Med Chem** 1990 Jul;33(7):2024–7

Localization of striatal opioid gene expression, and its modulation by the mesostriatal dopamine pathway: an in situ hybridization study. Morris BJ, et al. **J Mol Neurosci** 1989;1(1):9–18

B–HT 920 is a full agonist at both pre– and postsynaptic D–2 dopamine receptors. Andén NE, et al. **J Neural Transm Gen Sect** 1990;79(3):209–14

Calcium antagonists inhibit met–enkephalin immunoreactive material release: in vitro and ex vivo experiments. Govoni S, et al. **J Neural Transm Gen Sect** 1990;80(1):1–8

CGS–19755 and MK–801 selectively prevent rat striatal cholinergic and gabaergic neuronal degeneration induced by N–methyl–D–aspartate and ibotenate in vivo. Schoepp DD, et al. **J Neural Transm Gen Sect** 1989;78(3):183–93

Changes in pituitary–adrenal activity affect the apomorphine– and cholecystokinin–8–induced changes in striatal dopamine release using microdialysis. Tanganelli S, et al. **J Neural Transm Gen Sect** 1990;81(3):183–94

Striatal L–dopa metabolism studied in vivo in rats with nigrostriatal lesions. Brannan T, et al. **J Neural Transm Park Dis Dement Sect** 1990;2(1):15–22

Effect of acute levodopa on brain catecholamines after selective MAO and COMT inhibition in male rats. Männistö PT, et al. **J Neural Transm Park Dis Dement Sect** 1990;2(1):31–43

Respective contributions of neuronal activity and presynaptic mechanisms in the control of the in vivo release of dopamine. Chéramy A, et al. **J Neural Transm Suppl** 1990; 29:183–93 (53 ref.)

M1 muscarinic acetylcholine receptor in cultured rat neostriatum regulates phosphoinositide hydrolysis. Akins PT, et al. **J Neurochem** 1990 Jan;54(1):266–73

Effect of chronic typical and atypical neuroleptic treatment on proenkephalin mRNA levels in the striatum and nucleus accumbens of the rat. Angulo JA, et al. **J Neurochem** 1990 Jun;54(6):1889–94

Kynurenine pathway measurements in Huntington's disease striatum: evidence for reduced formation of kynurenic acid. Beal MF, et al. **J Neurochem** 1990 Oct;55(4):1327–39

Differential effects of forced locomotion, tail–pinch, immobilization, and methyl–beta–carboline carboxylate on extracellular 3,4–dihydroxyphenylacetic acid levels in the rat striatum, nucleus accumbens, and prefrontal cortex: an in vivo voltammetric study. Bertolucci–D'Angio M, et al. **J Neurochem** 1990 Oct;55(4):1208–15

D1 and D2 dopaminergic regulation of acetylcholine release from striata of freely moving rats. Bertorelli R, et al. **J Neurochem** 1990 Jun;54(6):2145–8

Both A1 and A2a purine receptors regulate striatal acetylcholine release. Brown SJ, et al. **J Neurochem** 1990 Jul;55(1):31–8

Effects of selective monoamine oxidase inhibitors on the in vivo release and metabolism of dopamine in the rat striatum. Butcher SP, et al. **J Neurochem** 1990 Sep; 55(3):981–8

4–Aminopyridine increases acetylcholine release without diminishing membrane phosphatidylcholine. Buyukuysal RL, et al. **J Neurochem** 1990 Apr;54(4):1302–9

Ca2(+)–dependent, ATP–induced conversion of the [3H]hemicholinium–3 binding sites from high– to low–affinity states in rat striatum: effect of protein kinase inhibitors on this affinity conversion and synaptosomal choline transport. Chatterjee TK, et al. **J Neurochem** 1990 May;54(5):1500–8

Treatment with oxiracetam or choline restores cholinergic biochemical and pharmacological activities in striata of decorticated rats. Consolo S, et al. **J Neurochem** 1990 Feb; 54(2):571–7

Effects of transient forebrain ischemia and pargyline on extracellular concentrations of dopamine, serotonin, and their metabolites in the rat striatum as determined by in vivo microdialysis. Damsma G, et al. **J Neurochem** 1990 Mar;54(3):801–8

Diacylglycerol–induced stimulation of neurotransmitter release from rat brain striatal synaptosomes. Davis ME, et al. **J Neurochem** 1990 Feb;54(2):662–8

In vivo mechanisms underlying dopamine release from rat nigrostriatal terminals: I. Studies using veratrine and ouabain. Fairbrother IS, et al. **J Neurochem** 1990 Jun; 54(6):1834–43

In vivo mechanisms underlying dopamine release from rat nigrostriatal terminals: II. Studies using potassium and tyramine. Fairbrother IS, et al. **J Neurochem** 1990 Jun; 54(6):1844–51

In vivo autoxidation of dopamine in guinea pig striatum increases with age. Fornstedt B, et al. **J Neurochem** 1990 Aug;55(2):655–9

Transient hypoxia alters striatal catecholamine metabolism in immature brain: an in vivo microdialysis study. Gordon K, et al. **J Neurochem** 1990 Feb;54(2):605–11

Haloperidol–induced increase in striatal concentration of the tripeptide, Tyr–Gly–Gly, provides an index of increased enkephalin release in vivo. Houdi AA, et al.

J Neurochem 1990 Apr;54(4):1360–6
Effects of choline administration on in vivo release and biosynthesis of acetylcholine in the rat striatum as studied by in vivo brain microdialysis. Koshimura K, et al. J Neurochem 1990 Feb;54(2):533–9
Enhancement of dopamine release in vivo from the rat striatum by dialytic perfusion of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin. Koshimura K, et al. J Neurochem 1990 Apr;54(4):1391–7
In vivo stimulation of D1 receptors increases the phosphorylation of proteins in the striatum. Lewis RM, et al. J Neurochem 1990 Sep;55(3):1071–4
Drug effects on the release of endogenous acetylcholine in vivo: measurement by intracerebral dialysis and gas chromatography–mass spectrometry. Marien MR, et al. J Neurochem 1990 Jun;54(6):2016–23
Pretreatment of mouse striatal neurons in primary culture with 17 beta-estradiol enhances the pertussis toxin-catalyzed ADP-ribosylation of G alpha o,i protein subunits. Maus M, et al. J Neurochem 1990 Oct; 55(4):1244–51
Induction of c-fos mRNA expression in rat striatum by neuroleptic drugs. Miller JC. J Neurochem 1990 Apr; 54(4):1453–5
Acute effects of typical and atypical antipsychotic drugs on the release of dopamine from prefrontal cortex, nucleus accumbens, and striatum of the rat: an in vivo microdialysis study. Moghaddam B, et al. J Neurochem 1990 May; 54(5):1755–60
Effect of 3,4-methylenedioxymethamphetamine on 3,4-dihydroxyphenylalanine accumulation in the striatum and nucleus accumbens. Nash JF, et al. J Neurochem 1990 Mar;54(3):1062–7
Extracellular striatal dopamine and its metabolites during transient cerebral ischaemia. Obrenovitch TP, et al. J Neurochem 1990 May;54(5):1526–32
Nicotinic modulation of [3H]dopamine release from striatal synaptosomes: pharmacological characterisation. Rapier C, et al. J Neurochem 1990 Mar;54(3):937–45
Localization of N-methyl-D-aspartate receptors in the rat striatum: effects of specific lesions on the [3H]3-(2-carboxypiperazin-4-yl)propyl-1-phosphonic acid binding. Samuel D, et al. J Neurochem 1990 Jun; 54(6):1926–33
Role of adenylate cyclase in the modulation of the release of dopamine: a microdialysis study in the striatum of the rat. Santiago M, et al. J Neurochem 1990 Jul;55(1):169–74
Effects of creatine on synthesis and release of gamma-[3H]aminobutyric acid. Schultheiss K, et al. J Neurochem 1990 Jun;54(6):1858–63
Development of haloperidol-induced dopamine release in the rat striatum using intracerebral dialysis. Walters DE, et al. J Neurochem 1990 Jan;54(1):181–6
Ethanol inhibition of N-methyl-D-aspartate-stimulated endogenous dopamine release from rat striatal slices: reversal by glycine. Woodward JJ, et al. J Neurochem 1990 Feb;54(2):712–5
In vivo striatal dopamine release by M1 muscarinic receptors is induced by activation of protein kinase C. Xu M, et al. J Neurochem 1990 Jun;54(6):1917–9
Preloading in vivo: a rapid and reliable method for measuring gamma-aminobutyric acid and glutamate fluxes by microdialysis. Young AM, et al. J Neurochem 1990 Sep; 55(3):1060–3
Normal striatal glucose consumption in two patients with benign hereditary chorea as measured by positron emission tomography. Kuwert T, et al. J Neurol 1990 Apr; 237(2):80–4
Alzheimer's disease: striatal amyloid deposits and neurofibrillary changes. Braak H, et al. J Neuropathol Exp Neurol 1990 May;49(3):215–24
Effects of dopamine depletion on striatal neurotensin: biochemical and immunohistochemical studies. Bean AJ, et al. J Neurosci 1989 Dec;9(12):4430–8
Ultrastructural localization of molecular subtypes of immunoreactive neural cell adhesion molecule (NCAM) in the adult rodent striatum. DiFiglia M, et al. J Neurosci 1989 Dec;9(12):4158–68
Basic FGF reverses chemical and morphological deficits in the nigrostriatal system of MPTP-treated mice. Otto D, et al. J Neurosci 1990 Jun;10(6):1912–21
Cerebral synthesis and release of kynurenic acid: an endogenous antagonist of excitatory amino acid receptors. Swartz KJ, et al. J Neurosci 1990 Sep;10(9):2965–73
Application of fast cyclic voltammetry to measurement of electrically evoked dopamine overflow from brain slices in vitro. Bull DR, et al. J Neurosci Methods 1990 Apr; 32(1):37–44
Denervation and hyperinnervation in the nervous system of diabetic animals: III. Functional alterations of G proteins in diabetic encephalopathy. Abbracchio MP, et al. J Neurosci Res 1989 Dec;24(4):517–23
Bilateral recovery of striatal dopamine after unilateral adrenal grafting into the striatum of the 1-methyl-4-(2'-methylphenyl)-1,2,3,6-tetrahydropyridine (2'CH3-MPTP)-treated mouse. Bohn MC, et al. J Neurosci Res 1990 Mar;25(3):281–6
Resistance to extrapyramidal effects of opiates in rats chronically treated with SCH 23390. De Montis GM, et al. J Neurosci Res 1989 Oct;24(2):286–92
Effect of chronic lead exposure on biopterin metabolism in the rat neostriatum. Martínez-Fong D, et al. J Neurosci Res 1990 May;26(1):112–4
Increased dopamine turnover in the ventral striatum by 8-OH-DPAT administration in the rat. Ahlenius S, et al. J Pharm Pharmacol 1990 Apr;42(4):285–8
Decreased 5-hydroxytryptamine turnover in striatum and other brain regions after administration of 5-methoxy-3-(di-n-propylamino)chroman to rats. Fuller RW, et al. J Pharm Pharmacol 1989 Nov;41(11):805–6
Postnatal effects of maternal nicotine exposure on the striatal dopaminergic system in rats. Fung YK. J Pharm Pharmacol 1989 Aug;41(8):576–8
Thermodynamic analyses of the binding of substrates and uptake inhibitors on the neuronal carrier of dopamine labeled with [3H]GBR 12783 or [3H]mazindol. Bonnet JJ, et al. J Pharmacol Exp Ther 1990 Jun;253(3):1206–14
Dopamine efflux from striatal slices after intracerebral 6-hydroxydopamine: evidence for compensatory hyperactivity of residual terminals. Snyder GL, et al. J Pharmacol Exp Ther 1990 May;253(2):867–76
Factors influencing the calculation of results from studies of the release of tritiated neurotransmitters from superfused slices of guinea pig striata. Dawson RM. J Pharmacol Methods 1989 Sep;22(2):65–75
Effect of anticholinergic drugs on striatal acetylcholine release and motor activity in freely moving rats studied by brain microdialysis. Watanabe H, et al. Jpn J Pharmacol 1989 Sep;51(1):75–82
Stress induced alterations in striatal GABAA receptor complex. Zhang MY, et al. Jpn J Pharmacol 1990 May; 53(1):121–4
Characterization of gamma-aminobutyric acid and dopamine overflow following acute implantation of a microdialysis probe. Drew KL, et al. Life Sci 1989;45(14):1307–17
Characterization of sulpiride-displaceable 3H-YM-09151-2 binding sites in rat frontal cortex and the effects of subchronic treatment with haloperidol on cortical D-2 dopamine receptors. Kazawa T, et al. Life Sci 1990; 47(6):531–7
Chronic estradiol treatment increases ovariectomized rat striatal D-1 dopamine receptors. Lévesque D, et al. Life Sci 1989;45(19):1813–20
[125]I-spectramide: a novel benzamide displaying potent and selective effects at the D2 dopamine receptor. Sánchez-Roa PM, et al. Life Sci 1989;45(19):1821–9
The effects of pH on amphetamine-induced dopamine release as measured by in vivo dialysis. Thomas DN, et al. Life Sci 1989;45(14):1299–305
Presynaptic inhibition of dopamine synthesis in rat striatal tissue by enantiomeric mono- and dihydroxyaporphines. Booth RG, et al. Mol Pharmacol 1990 Jul;38(1):92–101
Influence of pH on the binding of scopolamine and N-methylscopolamine to muscarinic receptors in the corpus striatum and heart of rats. Ehlert FJ, et al. Mol Pharmacol 1990 Jul;38(1):143–7
Positron emission tomography demonstrates dopamine D2 receptor supersensitivity in the striatum of patients with early Parkinson's disease. Rinne UK, et al. Mov Disord 1990;5(1):55–9
Arachidonic acid released from striatal neurons by joint stimulation of ionotropic and metabotropic quisqualate receptors. Dumuis A, et al. Nature 1990 Sep 13; 347(6289):182–4
Activation of NMDA receptors induces dephosphorylation of DARPP-32 in rat striatal slices. Halpain S, et al. Nature 1990 Jan 25;343(6256):369–72
Investigations of the roles of dihydropyridine and omega-conotoxin-sensitive calcium channels in mediating depolarisation-evoked endogenous dopamine release from striatal slices. Herdon H, et al. Naunyn Schmiedebergs Arch Pharmacol 1989 Jul; 340(1):36–40
Autoradiographic evidence for G-protein coupled A2-receptors in rat neostriatum using [3H]-CGS 21680 as a ligand. Parkinson FE, et al. Naunyn Schmiedebergs Arch Pharmacol 1990 Jul; 342(1):85–9
Dopamine D1 receptors labelled with [3H]SCH23390 in rabbit cerebral cortex and neostriatum. Equilibrium binding, kinetics and selectivity. Reader TA, et al. Naunyn Schmiedebergs Arch Pharmacol 1989 Dec; 340(6):617–25
Comparison of characteristics of dopamine uptake and mazindol binding in mouse striatum. Zimányi I, et al. Naunyn Schmiedebergs Arch Pharmacol 1989 Dec; 340(6):626–32
Aging alters opiate inhibition of potassium (K+)-stimulated dopamine release from the corpus striatum of male rats. Laping NJ, et al. Neurobiol Aging 1990 Jul-Aug; 11(4):395–9
Acetylcholine release from striatal slices of young adult and aged Fischer 344 rats. Weiler MH. Neurobiol Aging 1990 Jul-Aug;11(4):401–7
[3H]ketanserin binds to non-5-HT2 sites in rabbit cerebral cortex and neostriatum. Dewar KM, et al. Neurochem Res 1990 May;15(5):507–14
Effects of atropine on the release of newly synthesized acetylcholine from rat striatal slices at various concentrations of calcium ions. Doležal V, et al. Neurochem Res 1990 Jan;15(1):41–5
Penicillin-induced convulsions have preferential effects on transmitter glutamate pools in rat neostriatum. Furset K, et al. Neurochem Res 1989 Nov;14(11):1143–7
Effects of an N-methyl-D-aspartate receptor agonist and its antagonist CPP on the levels of dopamine and serotonin metabolites in rat striatum collected in vivo by using a brain dialysis technique. Kabuto H, et al. Neurochem Res 1989 Nov;14(11):1075–80
Alcohol withdrawal-induced changes in brain biogenic amines in mice: influence of the genotype. Kempf E, et al. Neurochem Res 1990 Jan;15(1):69–75
Characteristics of Ca2+/calmodulin- and Ca2+/phosphatidylserine-stimulated phosphoproteins in rat striatum. Lau YS. Neurochem Res 1990 Mar; 15(3):265–72
[3H]tyramine binding: a comparison with neuronal [3H]dopamine uptake and [3H]mazindol binding processes. Vaccari A, et al. Neurochem Res 1989 Oct;14(10):949–55
Met-enkephalin immunoreactivity in the basal ganglia in Parkinson's disease and striatonigral degeneration. Goto S, et al. Neurology 1990 Jul;40(7):1051–6
NGF receptor reexpression and NGF-mediated cholinergic neuronal hypertrophy in the damaged adult neostriatum. Gage FH, et al. Neuron 1989 Feb;2(2):1177–84
Decreased striatal release of acetylcholine following withdrawal from long-term treatment with haloperidol: modulation by cholinergic, dopamine-D1 and -D2 mechanisms. Friedman E, et al. Neuropharmacology 1990 Jun;29(6):537–44
Enantiomeric differences in the effects of 3,4-methylenedioxymethamphetamine on extracellular monoamines and metabolites in the striatum of freely-moving rats: an in vivo microdialysis study. Hiramatsu M, et al. Neuropharmacology 1990 Mar; 29(3):269–75
Phencyclidine binding to striatal cocaine receptors. Kuhar MJ, et al. Neuropharmacology 1990 Mar;29(3):295–7
Benzodiazepine receptor autoradiography in corpus striatum of rat after large frontal cortex lesions and chronic treatment with diazepam. Moratalla R, et al. Neuropharmacology 1989 Sep;28(9):893–900
The metabolism of systemically-administered L-dihydroxyphenylalanine, by intact and dopamine-denervated striata, as revealed by brain microdialysis. Touchet N, et al. Neuropharmacology 1989 Nov;28(11):1217–22
Involvement of the cholinergic system in haloperidol-induced release of dopamine from slices of striatum in the rat. Yamada S, et al. Neuropharmacology 1990 Jan;29(1):55–9
Effects of acute and chronic administration of cocaine on striatal uptake, compartmentalization and release of [3H]dopamine. Yi SJ, et al. Neuropharmacology 1990 May; 29(5):475–86
Local administration of flurazepam has different effects on dopamine release in striatum and nucleus accumbens: a microdialysis study. Zetterström T, et al. Neuropharmacology 1990 Feb;29(2):129–34
Acute effects of bupropion on extracellular dopamine concentrations in rat striatum and nucleus accumbens studied by in vivo microdialysis. Nomikos GG, et al. Neuropsychopharmacology 1989 Dec;2(4):273–9
Effect of typical and atypical neuroleptic treatment on protachykinin mRNA levels in the striatum of the rat. Angulo JA, et al. Neurosci Lett 1990 May 31;113(2):217–21
Homocysteic acid lesions in rat striatum spare somatostatin-neuropeptide Y (NADPH-diaphorase) neurons. Beal MF, et al. Neurosci Lett 1990 Jan 1; 108(1-2):36–42
Increased diffusion of prolactin-like material into the brain neuropil from homologous adenohypophyseal transplants in the rat neostriatum after a 6-OH-dopamine induced degeneration of the mesostriatal dopamine neurons. Bjelke B, et al. Neurosci Lett 1989 Dec 15;107(1-3):33–8
Excitotoxicity of NMDA and kainic acid is modulated by nigrostriatal dopaminergic fibres. Chapman AG, et al. Neurosci Lett 1989 Dec 15;107(1-3):256–60
Exogenous GM1 gangliosides induce partial recovery of the nigrostriatal dopaminergic system in MPTP-treated young mice but not in aging mice. Date I, et al. Neurosci Lett 1989 Dec 4;106(3):282–6
Effect of unilateral nucleus basalis lesion on cortical and striatal acetylcholine and dopamine release monitored in vivo with microdialysis. Herrera-Marschitz M, et al. Neurosci Lett 1990 Mar 2;110(1-2):172–9
Ethanol administration does not alter dopamine D1 and D2 receptor characteristics in rat brain. Hietala J, et al. Neurosci Lett 1990 Jan 22;108(3):289–94
The influence of cocaine self-administration on in vivo dopamine and acetylcholine neurotransmission in rat caudate-putamen. Hurd YL, et al. Neurosci Lett 1990 Feb 5;109(1-2):227–33
Acetyl-L-carnitine enhances acetylcholine release in the striatum and hippocampus of awake freely moving rats. Imperato A, et al. Neurosci Lett 1989 Dec 15; 107(1-3):251–5
Endothelin-triggered brain damage under hypoglycemia evidenced by real-time monitoring of dopamine release from rat striatal slices. Kataoka Y, et al. Neurosci Lett 1989 Dec 15;107(1-3):75–80
The glutamate receptor of the Qp-type activates protein kinase C and is regulated by protein kinase C. Manzoni OJ, et al. Neurosci Lett 1990 Feb 5;109(1-2):146–51
Autoradiographic localisation of D1 and D2 dopamine receptors in primordial striatal tissue grafts in rats. Mayer

E, et al. **Neurosci Lett** 1990 Feb 16;109(3):271–6
Chronic nicotine treatment eliminates asymmetry in striatal glucose utilization following unilateral transection of the mesostriatal dopamine pathway in rats. Owman C, et al. **Neurosci Lett** 1989 Jul 31;102(2–3):279–83
The long–term effects of neurotoxic doses of methamphetamine on the extracellular concentration of dopamine measured with microdialysis in striatum. Robinson TE, et al. **Neurosci Lett** 1990 Mar 2; 110(1–2):193–8
Comparison of the effects of intracerebrally administered MPP+ (1–methyl–4–phenylpyridinium) in three species: microdialysis of dopamine and metabolites in mouse, rat and monkey striatum. Rollema H, et al. **Neurosci Lett** 1989 Dec 4;106(3):275–81
Effect of dopamine depletion upon the K(+)–evoked release of CCK from superfused striatal slices. Sierralta J, et al. **Neurosci Lett** 1990 May 4;112(2–3):313–7
Production of extracellular quinolinic acid in the striatum studied by microdialysis in unanesthetized rats. Speciale C, et al. **Neurosci Lett** 1989 Oct 9;104(3):345–50
No mediolateral differences in striatal autoreceptor–mediated modulation of dopamine release: in vivo voltammetric data. Stamford JA, et al. **Neurosci Lett** 1990 Feb 5; 109(1–2):123–7
Neurotensin reduces the affinity of dopamine D2 receptors in membranes from post mortem human caudate–putamen. von Euler G, et al. **Neurosci Lett** 1990 Feb 16;109(3):325–30
Kainate evokes the release of endogenous glycine from striatal neurons in primary culture. Weiss S, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):205–10
Effect of choline administration on the release of acetylcholine from the striatum as determined by microdialysis in awake rats. Westerink BH, et al. **Neurosci Lett** 1990 May 4;112(2–3):297–301
Long–term changes in striatal D1 dopamine receptor distribution after dopaminergic deafferentation. Ariano MA. **Neuroscience** 1989;32(1):203–12
Effects of neurotensin on dopamine release and metabolism in the rat striatum and nucleus accumbens: cross–validation using in vivo voltammetry and microdialysis. Blaha CD, et al. **Neuroscience** 1990;34(3):699–705
Localization of striatal dopamine receptor function by central injection of an irreversible receptor antagonist. Cameron DL, et al. **Neuroscience** 1989;32(3):769–78
Symptomatic and asymptomatic 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine–treated primates: biochemical changes in striatal regions. Elsworth JD, et al. **Neuroscience** 1989;33(2):323–31
Regulation of endogenous acetylcholine release from mammalian brain slices by opiate receptors: hippocampus, striatum and cerebral cortex of guinea–pig and rat. Lapchak PA, et al. **Neuroscience** 1989;31(2):313–25
Ontogeny of M1 and M2 muscarinic binding sites in the striatum of the cat: relationships to one another and to striatal compartmentalization. Nastuk MA, et al. **Neuroscience** 1989;33(1):125–47
In vivo release of endogenous glutamate and aspartate in the rat striatum during stimulation of the cortex. Perschak H, et al. **Neuroscience** 1990;35(2):283–7
Neonatal hypothyroidism induces striatal dopaminergic dysfunction. Vaccari A, et al. **Neuroscience** 1990; 35(3):699–706
Binding of [3H]GBR 12935 in the striatum, medial prefrontal cortex, nucleus accumbens and olfactory tubercle of rat. Izenwasser S, et al. **NIDA Res Monogr** 1989;95:341–2
Interactions of 7–[3–(4–[2,3–dimethylphenyl]piperazinyl)–propoxy]–2 (1H)–quinolinone binding in rat striatum: effects of lesions. Zhang X, et al. **Pharm Res** 1990 Mar;7(3):280–2
Dopaminergic alterations in cotreatments attenuating haloperidol–induced hypersensitivity. Carvey PM, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):291–300
Time–course of the effects of ovarian steroids on the activity of limbic and striatal dopaminergic neurons in female rat brain. Fernández–Ruiz JJ, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):603–6
In vivo dialysis measurements of dopamine and DOPAC in rats trained to turn on a circular treadmill. Sabol KE, et al. **Pharmacol Biochem Behav** 1990 May;36(1):21–8
Effect of YM–09151–2, a putative D2 dopamine receptor antagonist, on dopamine metabolism in the striatum of rats. Shibanoki S, et al. **Pharmacol Biochem Behav** 1989 Oct; 34(2):355–60
Intranigral GABAergic drug effects on striatal dopamine activity. Sperber EF, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1067–70
Yawning and suppression of exploration induced by dopamine agonists: no relation to extracellular striatal levels of dopamine. Ståhle L, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):201–9
The protein synthesis inhibitor, anisomycin, causes exacerbation of the iminodipropionitrile–induced spasmodic dyskinetic syndrome in rats. Stennett R, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1003–8
An in vitro model for studying acetylcholine and dopamine release from striatal slices. Raimondi L, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:75–6
The effect of amperozide on uptake and release of [3H]–dopamine in vitro from perfused rat striatal and limbic brain areas. Eriksson E, et al. **Pharmacol Toxicol** 1990;66 Suppl 1:45–8
Dopamine uptake sites in the striatum are distributed differentially in striosome and matrix compartments. Graybiel AM, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):9020–4
Link between D1 and D2 dopamine receptors is reduced in schizophrenia and Huntington diseased brain. Seeman P, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):10156–60
Developmental pattern of opioid receptors in the striatum and hippocampus: evidence for a non–mature type of receptor in embryonic tissue. Barg J, et al. **Prog Clin Biol Res** 1990;328:141–4
Adaptative changes in two indices of enkephalin neuron activity in mouse striatum following GABAergic stimulation. Llorens–Cortes C, et al. **Prog Clin Biol Res** 1990;328:203–6
The effects of nigrostriatal 6–hydroxydopamine lesions on dopamine D2 receptor mRNA and opioid systems. Mansour A, et al. **Prog Clin Biol Res** 1990;328:227–30
Pharmacological regulation of striatal prodynorphin peptides. Trujillo KA, et al. **Prog Clin Biol Res** 1990;328:223–6
Mu–opioid receptor–mediated inhibition of D–1 dopamine receptor stimulated adenylate cyclase in primary cultures of rat neostriatal neurons. van Vliet BJ, et al. **Prog Clin Biol Res** 1990;328:409–12
The effects of clozapine and fluperlapine on the in vivo release and metabolism of dopamine in the striatum and in the prefrontal cortex of freely moving rats. Imperato A, et al. **Psychopharmacol Bull** 1989;25(3):383–9
Striatal dopamine receptor occupancy during and following withdrawal from neuroleptic treatment: correlative evaluation by positron emission tomography and plasma prolactin levels. Baron JC, et al. **Psychopharmacology (Berl)** 1989;99(4):463–72
Rat striatal cation shifts reflecting hypoxic–ischemic damage can be predicted by on–line impedance measurements. de Boer J, et al. **Stroke** 1989 Oct;20(10):1377–82
Direct effect of 17 beta–estradiol on striatum: sex differences in dopamine release. Becker JB. **Synapse** 1990;5(2):157–64
Inhibition of striatal dopamine release by the selective D–2 dopamine receptor agonist N–0437 is blocked by quinine. Cass WA, et al. **Synapse** 1990;5(4):336–7
Distribution of dopamine D1 and D2 receptors in rabbit cortical areas, hippocampus, and neostriatum in relation to dopamine contents. Dewar KM, et al. **Synapse** 1989; 4(4):378–86
Substantia nigra 6–hydroxydopamine lesions alter dopaminergic synaptic markers in the nucleus basalis magnocellularis and striatum of rats. Geula C, et al. **Synapse** 1989;4(3):248–53
In vivo characterization of locally applied dopamine uptake inhibitors by striatal microdialysis. Nomikos GG, et al. **Synapse** 1990;6(1):106–12
D1 dopamine receptor stimulation enables the postsynaptic, but not autoreceptor, effects of D2 dopamine agonists in nigrostriatal and mesoaccumbens dopamine systems. Wachtel SR, et al. **Synapse** 1989;4(4):327–46
Stimulation of D2 dopamine receptors decreases intracellular calcium levels in rat anterior pituitary cells but not striatal synaptosomes: a flow cytometric study using indo–1. Wolf ME, et al. **Synapse** 1989;4(4):353–70
Effects of inorganic mercury on [3H]dopamine release and calcium homeostasis in rat striatal synaptosomes. Hare MF, et al. **Toxicol Appl Pharmacol** 1990 Feb;102(2):316–30
Down–regulation of muscarinic receptors in the striatum of organophosphate–treated swine. Yang CM, et al. **Toxicol Appl Pharmacol** 1990 Jul;104(3):375–85
[Effects of monoamine oxidase B inhibitor and MPTP (1–methyl–4–phenyl–1,2,3,6–tetra–hydropyridine) on enkephalin levels in mice] Sheng J. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Apr; 23(2):104–6, 127–8 (Eng. Abstr.) **(Chi)**
[Piracetam: effect on posthypoxic inhibition of dopamine and acetylcholine release of striatum sections of the rat] Malais P, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):302–5 **(Fre)**
[Extracellular concentration of dopamine and dopamine metabolites in the rat striatum during cerebral ischemia and reperfusion] Matsumoto T, et al. **No To Shinkei** 1989 Oct; 41(10):1013–9 (Eng. Abstr.) **(Jpn)**
[Effect of ethanol on the levels of dopamine and its metabolites in the brain of rats with different degree of sensitivity to stress] Iukhananov RIu, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):362–4 (Eng. Abstr.) **(Rus)**

PATHOLOGY

A case of late onset striatonigral degeneration. Przedborski S, et al. **Acta Neurol Belg** 1989 Jan–Feb;89(1):29–37
Immunohistochemical visualization of afferent nerve terminals in human globus pallidus and its alteration in neostriatal neurodegenerative disorders. Goto S, et al. **Acta Neuropathol (Berl)** 1989;78(5):543–50
Inhomogeneity of the putaminal lesion in striatonigral degeneration. Goto S, et al. **Acta Neuropathol (Berl)** 1990; 80(2):204–7
Striatal and nigral neuron subpopulations in rigid Huntington's disease: implications for the functional anatomy of chorea and rigidity–akinesia. Albin RL, et al. **Ann Neurol** 1990 Apr;27(4):357–65
Immunohistochemical study of the striatal efferents and nigral dopaminergic neurons in parkinsonism–dementia complex on Guam in comparison with those in Parkinson's and Alzheimer's diseases. Goto S, et al. **Ann Neurol** 1990 May;27(5):520–7
Choreic movements in the macaque monkey induced by kainic acid lesions of the striatum combined with L–dopa. Pharmacological, biochemical and physiological studies on neural mechanisms. Kanazawa I, et al. **Brain** 1990 Apr;113 (Pt 2):509–35
Correlative decrease of large neurons in the neostriatum and basal nucleus of Meynert in Alzheimer's disease. Oyanagi K, et al. **Brain Res** 1989 Dec 18;504(2):354–7
Histological and ultrastructural evidence that D–amphetamine causes degeneration in neostriatum and frontal cortex of rats. Ryan LJ, et al. **Brain Res** 1990 Jun 4;518(1–2):67–77
Astroglial ablation prevents MPTP–induced nigrostriatal neuronal death. Takada M, et al. **Brain Res** 1990 Feb 12; 509(1):55–61
T1 and T2 weighted magnetic resonance imaging of excitotoxin lesions and neural transplants in rat brain in vivo. Norman AB, et al. **Exp Neurol** 1990 Aug; 109(2):164–70
Glial cytoplasmic inclusions in the CNS of patients with multiple system atrophy (striatonigral degeneration, olivopontocerebellar atrophy and Shy–Drager syndrome). Papp MI, et al. **J Neurol Sci** 1989 Dec;94(1–3):79–100
Abnormalities of striatal projection neurons and N–methyl–D–aspartate receptors in presymptomatic Huntington's disease. Albin RL, et al. **N Engl J Med** 1990 May 3;322(18):1293–8
Striatonigral degeneration: clinical, MRI, and pathologic correlation. O'Brien C, et al. **Neurology** 1990 Apr; 40(4):710–1
Morphological study on striatum and cerebellum cultures exposed to kainic acid and kainic acid and tiapride treatment. Renkawek K, et al. **Neuropatol Pol** 1989; 27(2):217–27
[3H]Dihydrotetrabenazine, a new marker for the visualization of dopaminergic denervation in the rat striatum. Masuo Y, et al. **Neurosci Lett** 1990 Jun 22;114(1):45–50
Selective loss of cholinergic neurons in the ventral striatum of patients with Alzheimer disease. Lehéricy S, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8580–4
[An autopsied case of manifesting chorea, serum antibody to brain proteins, neuronal degeneration in striatum and grumose degeneration in dentate nucleus] Ishikawa A, et al. **Rinsho Shinkeigaku** 1990 May;30(5):510–5 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Some general properties of neuronal responses in the human brain during perception of semantically meaningless visual stimuli. Abdullaev G, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):252–4
Localisation of orientation–selective neurons within the thalamus and striopallidar nuclei of the human brain. Abdullaev YG, et al. **Act Nerv Super (Praha)** 1989 Jun; 31(2):93–5
Chronic modification of dopaminergic transmission and its effects on binding characteristics of dopamine transporter ligand 3H–GBR 12783 in the striatum. Valchář M, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):273–4
Central monoamine dysfunction in diabetes: psychotherapeutic implications: electroanalysis by voltammetry. Broderick PA, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):211–25
Chronic ethanol treatment alters omega–conotoxin and Bay K 8644 sensitive calcium channels in rat striatal synaptosomes. Woodward JJ, et al. **Alcohol** 1990 Jul–Aug; 7(4):279–84
Striatonigral prodynorphin: a model system for understanding opioid peptide function. Thompson LA, et al. **Ann N Y Acad Sci** 1990;579:192–203 (78 ref.)
Positron emission tomography in Shy–Drager syndrome. Bhatt MH, et al. **Ann Neurol** 1990 Jul;28(1):101–3
Medial versus lateral hyperstriatal lesions in pigeons: effects on autoshaping, non–matching–to–sample and spatial discrimination learning at short and long intertrial intervals. Macphail EM, et al. **Behav Brain Res** 1989 Oct 1; 35(1):63–73
Regionally selective roles of the rat's striatum in modality–specific discrimination learning and forelimb reaching. Pisa M, et al. **Behav Brain Res** 1990 Mar 26; 37(3):281–92
Analysis of recovery from behavioral asymmetries induced by unilateral removal of vibrissae in the rat. Milani H, et al. **Behav Neurosci** 1989 Oct;103(5):1067–74
Cortical, hippocampal, and striatal mediation of schedule–induced behaviors. Mittleman G, et al. **Behav Neurosci** 1990 Jun;104(3):399–409
Differential contributions of circular and elongated spatial filters to the Café Wall illusion. Lulich DP, et al. **Biol Cybern** 1989;61(6):427–35
Modulation of acetylcholine release by D1, D2 dopamine receptors in rat striatum under freely moving conditions. Ajima A, et al. **Brain Res** 1990 Jun 4;518(1–2):193–8
Sustained behavioral recovery from unilateral nigrostriatal damage produced by the controlled release of dopamine from a silicone polymer pellet placed into the denervated striatum. Becker JB, et al. **Brain Res** 1990 Jan 29; 508(1):60–4
Enhanced behavioral stereotypies elicited by intrastriatal

injection D1 and D2 dopamine agonists in intact rats. Bordi F, et al. **Brain Res** 1989 Dec 18;504(2):276–83

Local enkephalins tonically modulate dopamine release in the striatum: a microdialysis study. Dourmap N, et al. **Brain Res** 1990 Jul 30;524(1):153–5

Changes of the membrane potential in striatal synaptoneurosome, synaptosome and membrane sac preparations induced by glutamate, kainate and aspartate as measured with a cyanine dye DiS–C2–(5). Heinonen E, et al. **Brain Res** 1989 Sep 4;496(1–2):187–96

Distinct nigrostriatal projection systems innervate striosomes and matrix in the primate striatum. Langer LF, et al. **Brain Res** 1989 Oct 2;498(2):344–50

Hyperactivity following posterior cortical injury is lateralized, sensitive to lesion size and independent of the nigrostriatal dopamine system. McMahon FJ, et al. **Brain Res** 1989 Dec 4;503(2):185–90

Dopamine uptake inhibitors block long–term neurotoxic effects of methamphetamine upon dopaminergic neurons. Marek GJ, et al. **Brain Res** 1990 Apr 16;513(2):274–9

Effect of L–glutamate on the release of striatal dopamine: in vivo dialysis and electrochemical studies. Moghaddam B, et al. **Brain Res** 1990 Jun 4;518(1–2):55–60

6–Hydroxydopamine lesions of the ventral tegmentum abolish D–amphetamine and morphine analgesia in the formalin test but not in the tail flick test. Morgan MJ, et al. **Brain Res** 1990 Jun 11;519(1–2):144–9

Lesions of the dopaminergic nigrostriatal system in neonatal rats: effects on the electrophysiological activity of striatal neurons recorded during adulthood. Onn SP, et al. **Brain Res** 1990 Jun 4;518(1–2):274–8

The effects of intranigral GABA and dynorphin A injections on striatal dopamine and GABA release: evidence that dopamine provides inhibitory regulation of striatal GABA neurons via D2 receptors. Reid MS, et al. **Brain Res** 1990 Jun 11;519(1–2):255–60

Striatonigral projection neurons contain D1 dopamine receptor–activated c–fos. Robertson GS, et al. **Brain Res** 1990 Jul 23;523(2):288–90

Effects of excitotoxic striatal lesions on single unit activity in globus pallidus and entopeduncular nucleus of the cat. Sachdev RN, et al. **Brain Res** 1989 Nov 6;501(2):295–306

Pulsatile release of acetylcholinesterase from the substantia nigra following electrical stimulation of the striatum. Taylor SJ, et al. **Brain Res** 1989 Dec 25;505(1):153–6

Responses of pallidal neurons to striatal stimulation in intact waking monkeys. Tremblay L, et al. **Brain Res** 1989 Sep 25;498(1):1–16

The influence of striatum on the substantia nigra: a study using the spreading depression technique. Albe–Fessard D, et al. **Brain Res Bull** 1990 Feb;24(2):213–9

Bromocriptine–induced rotation: characterization using a striatal efferent lesion in the mouse. Mandel RJ, et al. **Brain Res Bull** 1990 Feb;24(2):175–80

Increased expression of glutamic acid decarboxylase mRNA in rat substantia nigra after an ibotenic acid lesion in the caudate–putamen. Lindefors N, et al. **Brain Res Mol Brain Res** 1990 Apr;7(3):207–12

Adrenal medulla graft induced recovery of function in an animal model of Parkinson's disease: possible mechanisms of action. Becker JB, et al. **Can J Psychol** 1990 Jun; 44(2):293–310 (80 ref.)

Role of prefrontal cortex and striatal output systems in short–term memory deficits associated with ageing, basal forebrain lesions, and cholinergic–rich grafts. Dunnett SB. **Can J Psychol** 1990 Jun;44(2):210–32

Compensatory changes in striatal dopamine neurons following recovery from injury induced by 6–OHDA or methamphetamine: a review of evidence from microdialysis studies. Robinson TE, et al. **Can J Psychol** 1990 Jun; 44(2):253–75 (100 ref.)

Role of dopamine D–1 and D–2 receptors in the ventral striatum in the turning behaviour of rats. Koshikawa N, et al. **Eur J Pharmacol** 1990 Mar 20;178(2):233–7

The effects of the phencyclidine analogs BTCP and TCP on nigrostriatal dopamine neuronal activity. Rouillard C, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):227–35

Nigral grafts in neonatal rats protect from aphagia induced by subsequent adult 6–OHDA lesions: the importance of striatal location. Rogers DC, et al. **Exp Brain Res** 1990; 80(1):172–6

Asymmetries in crossed and uncrossed nigrostriatal projections dependent on duration of unilateral removal of vibrissae in rats. Steiner H, et al. **Exp Brain Res** 1989; 77(2):421–4

Intrastriatal implants of mesencephalic cell suspensions in weaver mutant mice: ultrastructural relationships of dopaminergic dendrites and axons issued from the graft. Triarhou LC, et al. **Exp Brain Res** 1990;79(1):3–17

Limited recovery of striatal dopaminergic fibers by adrenal medullary grafts in MPTP–treated aging mice. Date I, et al. **Exp Neurol** 1990 Mar;107(3):197–207

Acetylcholine–dopamine balance in striatum: is it still a target for antiparkinsonian therapy? Calabresi P, et al. **Experientia Suppl** 1989;57:315–21

Central cholinergic synapses: the septohippocampal system as a model. Frotscher M. **Experientia Suppl** 1989;57:33–41

Muscarinic slow EPSPs in neostriatal and hippocampal neurons in vitro. Misgeld U. **Experientia Suppl** 1989; 57:104–13

Characterization of muscarinic receptors modulating acetylcholine release in the rat neostriatum. Weiler MH. **Experientia Suppl** 1989;57:204–11

Depletion of the Ca(++)–dependent releasable pool of glutamate in striatal synaptosomes associated with dendrotoxin–induced potassium channel blockade. Barbeito L, et al. **J Neural Transm Gen Sect** 1990;80(3):167–79

Striatal dopamine in motor activation and reward–mediated learning: steps towards a unifying model. Wickens J. **J Neural Transm Gen Sect** 1990;80(1):9–31 (117 ref.)

Scoliosis in rats with experimentally–induced hemiparkinsonism: dependence upon striatal dopamine denervation. Herrera–Marschitz M, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):39–43

Synaptic and intrinsic control of membrane excitability of neostriatal neurons. I. An in vivo analysis. Calabresi P, et al. **J Neurophysiol** 1990 Apr;63(4):651–62

Synaptic and intrinsic control of membrane excitability of neostriatal neurons. II. An in vitro analysis. Calabresi P, et al. **J Neurophysiol** 1990 Apr;63(4):663–75

Intracellular recording of identified neostriatal patch and matrix spiny cells in a slice preparation preserving cortical inputs. Kawaguchi Y, et al. **J Neurophysiol** 1989 Nov; 62(5):1052–68

Postnatal rat nigrostriatal dopaminergic neurons exhibit five types of potassium conductances. Silva NL, et al. **J Neurophysiol** 1990 Jul;64(1):262–72

Elementary processes of response selection mediated by distinct regions of the striatum. Brown VJ, et al. **J Neurosci** 1989 Nov;9(11):3760–5

Unit responses evoked in the amygdala and striatum by electrical stimulation of the medial geniculate body. Clugnet MC, et al. **J Neurosci** 1990 Apr;10(4):1055–61

Development of inhibitory synapses among striatal neurons in vitro. Dubinsky JM. **J Neurosci** 1989 Nov;9(11):3955–65

Patterns of cell and fiber vulnerability in the mesostriatal system of the mutant mouse weaver. I. Gradients and compartments. Graybiel AM, et al. **J Neurosci** 1990 Mar; 10(3):720–33

Nondopaminergic prefrontocortical efferent fibers modulate D1 receptor denervation supersensitivity in specific regions of the rat striatum. Herve D, et al. **J Neurosci** 1989 Nov; 9(11):3699–708

Lesions of the nigrostriatal dopamine projection increase the inhibitory effects of D1 and D2 dopamine agonists on caudate–putamen neurons and relieve D2 receptors from the necessity of D1 receptor stimulation. Hu XT, et al. **J Neurosci** 1990 Jul;10(7):2318–29

Evidence that L–dopa–induced rotational behavior is dependent on both striatal and nigral mechanisms. Robertson GS, et al. **J Neurosci** 1989 Sep;9(9):3326–31

Patterns of cell and fiber vulnerability in the mesostriatal system of the mutant mouse weaver. II. High affinity uptake sites for dopamine. Roffler–Tarlov S, et al. **J Neurosci** 1990 Mar;10(3):734–40

Firing patterns and synaptic potentials of identified giant aspiny interneurons in the rat neostriatum. Wilson CJ, et al. **J Neurosci** 1990 Feb;10(2):508–19

Serotonergic afferent regulation of the basic physiology and pharmacological responsiveness of nigrostriatal dopamine neurons. Kelland MD, et al. **J Pharmacol Exp Ther** 1990 May;253(2):803–11

The effects of striatal lesion on turning behavior and globus pallidus single unit response to dopamine agonist administration. Pan HS, et al. **Life Sci** 1990;46(1):73–80

A functional hypothesis concerning the striatal matrix and patches: mediation of S–R memory and reward. White NM. **Life Sci** 1989;45(21):1943–57 (92 ref.)

Muscarinic modulation of a transient K+ conductance in rat neostriatal neurons. Akins PT, et al. **Nature** 1990 Mar 15;344(6263):240–2

Desenkephalin–gamma–endorphin is an antagonist of the hyperactivity response induced by infusion of dopamine into the nucleus accumbens of rat and ventral striatum of marmoset. Costall B, et al. **Neuropharmacology** 1989 Nov; 28(11):1223–9

Functional organization of striatum as studied with neural grafts. Iversen SD, et al. **Neuropsychologia** 1990; 28(6):601–26 (109 ref.)

Limbic–striatal interactions in reward–related processes. Robbins TW, et al. **Neurosci Biobehav Rev** 1989 Summer–Fall;13(2–3):155–62 (35 ref.)

The influence of the estrous cycle on the activity of striatal neurons recorded from freely moving rats. Garcia–Munoz M, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):233–8

Two types of A–current differing in voltage–dependence are expressed by neurons of the rat neostriatum. Surmeier DJ, et al. **Neurosci Lett** 1989 Sep 11;103(3):331–7

Cografts of adrenal medulla with C6 glioma cells in rats with 6–hydroxydopamine–induced lesions. Bing G, et al. **Neuroscience** 1990;34(3):687–97

Rotational behaviour induced by theophylline in 6–OHDA nigrostriatal denervated rats is dependent on the supersensitivity of striatal dopaminergic receptors. Casas M, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):609–13

The effects of intrastriatal hormones on the dorsal immobility response in gonadectomized male and female rats. Van Hartesveldt C, et al. **Pharmacol Biochem Behav** 1989 Nov; 34(3):459–63

Behavioral and biochemical changes monitored in two inbred strains of mice during exploration of an unfamiliar environment. Cabib S, et al. **Physiol Behav** 1990 Apr; 47(4):749–53

Behavioral and neurochemical differences in an inbred strain of rats. Pradhan N, et al. **Physiol Behav** 1990 Apr; 47(4):705–8

Conditioned rotation: a behavioral analysis. Richards JB, et al. **Physiol Behav** 1990 Jun;47(6):1083–7

Amphetamine and cocaine induce drug–specific activation of the c–fos gene in striosome–matrix compartments and limbic subdivisions of the striatum. Graybiel AM, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6912–6

Expression of striatal D1 dopamine receptors coupled to inositol phosphate production and Ca2+ mobilization in Xenopus oocytes. Mahan LC, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2196–200

A simple ordering of neocortical areas established by the compartmental organization of their striatal projections. Ragsdale CW Jr, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6196–9

Local circuitry in the IMHV of the domestic chick (Gallus domesticus). Bradley PM, et al. **Proc R Soc Lond [Biol]** 1990 Jun 22;240(1299):479–92

Connections of the IMHV in the domestic chick Gallus domesticus. Bradley PM, et al. **Proc R Soc Lond [Biol]** 1990 Jun 22;240(1299):493–502

Cholinergic stimulation of the ventrolateral striatum elicits mouth movements in rats: pharmacological and regional specificity. Kelley AE, et al. **Psychopharmacology (Berl)** 1989;99(4):542–9

Nigrostriatal lesion alters neurophysiological responses to selective and nonselective D–1 and D–2 dopamine agonists in rat globus pallidus. Carlson JH, et al. **Synapse** 1990; 5(2):83–93

Dye–coupling in the neostriatum of the rat: I. Modulation by dopamine–depleting lesions. Cepeda C, et al. **Synapse** 1989;4(3):229–37

Dye–coupling in the neostriatum of the rat: II. Decreased coupling between neurons during development. Walsh JP, et al. **Synapse** 1989;4(3):238–47

Disinhibition as a basic process in the expression of striatal functions. Chevalier G, et al. **Trends Neurosci** 1990 Jul; 13(7):277–80 (46 ref.)

Role of the mesostriatal dopamine pathway [letter; comment] Strange PG. **Trends Neurosci** 1990 Mar;13(3):93–5 Comment on: Trends Neurosci 1989 Oct;12(10):366–75.

[Dopamine–glutamate interaction and cholinesterase activity in the corpus striatum of the adult rat] Di Loreto S, et al. **Boll Soc Ital Biol Sper** 1989 Sep;65(9):893–900 (Eng. Abstr.) **(Ita)**

[The effect of amitriptyline on the reorganization of the temporal dynamics of forced swimming in rats during stimulation and exclusion of the corpus striatum] Aurshanian EB, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):10–3 (Eng. Abstr.) **(Rus)**

[Neuronal correlates of processing of a word: IV. Features of the evoked reactions of neuronal populations of the striatal and thalamic nuclei] Gogolitsyn IuL, et al. **Fiziol Cheloveka** 1989 May–Jun;15(3):53–60 **(Rus)**

[The neostriatum and regulation of voluntary movements in health and pathology: facts and hypotheses] Shapovalova KB. **Fiziol Cheloveka** 1989 May–Jun;15(3):78–92 **(Rus)**

[The effect of neostriatal stimulation on diuresis under conditions of unrestrained behavior in cats] Val'damirova EP. **Fiziol Zh SSSR** 1989 Oct;75(10):1374–80 (Eng. Abstr.) **(Rus)**

[The effect of stimulation of the neostriatum on diuresis in cats in an acute experiment] Val'damirova EP. **Fiziol Zh SSSR** 1990 Feb;76(2):253–8 (Eng. Abstr.) **(Rus)**

[The striatum and the organization of forced swimming in rats] Batrurin VA, et al. **Zh Vysh Nerv Deiat** 1989 Jul–Aug;39(4):633–9 (Eng. Abstr.) **(Rus)**

[The nucleus accumbens:is it an exclusive component of the dopaminergic system of the basal ganglia?] Herrera–Marschitz M, et al. **Neurologia** 1987 Mar–Apr; 2(2):47–9 **(Spa)**

PHYSIOPATHOLOGY

Comparison between extracellular and tissue fluctuation of dopamine and related metabolites in striatum under hypoxia. Masuda T, et al. **Brain Res** 1990 Jul 23; 523(2):356–8

Lateral hypothalamus–zona incerta region as an output station for the catalepsy induced by the blockade of striatal D1 and D2 dopamine receptors. Ossowska K, et al. **Brain Res** 1990 Jan 8;506(2):311–5

Responses of pallidal neurons to striatal stimulation in monkeys with MPTP–induced parkinsonism. Tremblay L, et al. **Brain Res** 1989 Sep 25;498(1):17–33

Blockade of excitatory neurotransmission in the globus pallidus induces rigidity and akinesia in the rat: implications for excitatory neurotransmission in pathogenesis of Parkinson's diseases. Turski L, et al. **Brain Res** 1990 Mar 26;512(1):125–31

Visual properties of neurons in the thalamus and striopallidar complex of the human brain. Medvedev SV, et al. **Int J Psychophysiol** 1990 Jul;9(1):49–74

Partial damage to nigrostriatal bundle: compensatory changes and the action of L–dopa. Zigmond MJ, et al. **J Neural Transm Suppl** 1990;29:217–32 (67 ref.)

Changes in striatal dopamine neurotransmission assessed with microdialysis following recovery from a bilateral 6–OHDA lesion: variation as a function of lesion size. Castañeda E, et al. **J Neurosci** 1990 Jun;10(6):1847–54

Behavioral evaluation of the anti–excitotoxic properties of

MK-801: comparison with neurochemical measurements. Susel Z, et al. **Neurosci Lett** 1989 Sep 25;104(1-2):125-9
Electrophysiological study of dyskinesia produced by microinjection of picrotoxin into the striatum of the rat. Muramatsu S, et al. **Neurosci Res** 1990 Feb;7(4):369-80
Left striato-pallidal hyperactivity in schizophrenia. Part II: Phenomenology and thought disorder. Early TS, et al. **Psychiatr Dev** 1989 Summer;7(2):109-21 (49 ref.)
Hyperactivity of the left striato-pallidal projection. Part I: Lower level theory. Early TS, et al. **Psychiatr Dev** 1989 Summer;7(2):85-108 (112 ref.)
[Are free oxygen radicals involved in the formation of changes caused by hypoxia in the neurotransmission of dopamine in the striatum of rats?] Scheuch C, et al. **Z Med Lab Diagn** 1990;31(3):128-33 (Eng. Abstr.) **(Ger)**
[The distribution of orientation-selective neurons in the thalamic nuclei and striopallidal complex of the human brain] Abdullaev IaG, et al. **Neirofiziologiia** 1989; 21(5):652-60 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

[CT evidence of high density area in bilateral striatum secondary to anoxia] Iwasaki Y, et al. **Rinsho Shinkeigaku** 1989 Aug;29(8):1045-7 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Striatal kinetics of [11C]-(+)-nomifensine and 6-[18F]fluoro-L-dopa in Parkinson's disease measured with positron emission tomography. Tedroff J, et al. **Acta Neurol Scand** 1990 Jan;81(1):24-30
6-18F-L-dopa imaging of the dopamine neostriatal system in normal and clinically normal MPTP-treated rhesus monkeys. Doudet DJ, et al. **Exp Brain Res** 1989;78(1):69-80
PET studies of the dopaminergic system. A review. Lenzi GL, et al. **J Nucl Med Allied Sci** 1990 Jan-Mar;34(1):1-9 (39 ref.)

SECRETION

An M3-like muscarinic autoreceptor regulates the in vivo release of acetylcholine in rat striatum. De Boer P, et al. **Eur J Pharmacol** 1990 Apr 10;179(1-2):167-72
Simultaneous measurement of acetylcholine and dopamine releases in rat striatum under freely moving conditions with a brain dialysis method. Ajima A, et al. **J Chromatogr** 1989 Sep 29;494:297-302
Effects of apomorphine on in vivo release of dopamine and its metabolites in the prefrontal cortex and the striatum, studied by a microdialysis method. Ozaki N, et al. **J Neurochem** 1989 Dec;53(6):1861-4
Release of endogenous dopamine by stimulation of 5-hydroxytryptamine3 receptors in rat striatum. Blandina P, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):803-9
Muscarinic receptor blockade increases basal acetylcholine release from striatal slices. Doležal V, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):739-43
Aspartate-releasing nerve terminals in rat striatum possess D-2 dopamine receptors mediating inhibition of release. Maura G, et al. **J Pharmacol Exp Ther** 1989 Dec; 251(3):1142-6
Ischemic flow threshold for striatal dopamine release in rats. Yao H, et al. **Neurochem Res** 1990 May;15(5):547-9

SURGERY

NGF-like trophic support from peripheral nerve for grafted rhesus adrenal chromaffin cells. Kordower JH, et al. **J Neurosurg** 1990 Sep;73(3):418-28
Adrenal medullary transplant to the striatum of patients with advanced Parkinson's disease: 1-year motor and psychomotor data. Goetz CG, et al. **Neurology** 1990 Feb; 40(2):273-6
Adrenal-to-caudate transplantation [letter; comment] Ostrosky-Solis F, et al. **Neurology** 1990 May;40(5):860-1 Comment on: Neurology 1989 Sep;39(9):1227-34.
Decreased efficacy of levodopa with carbidopa in parkinsonian patients after adrenal-to-caudate implants. Tsui JK, et al. **Neurology** 1990 May;40(5):845-6
[Treatment of Parkinson disease by transplantation of adrenal medullary tissue to the corpus striatum of the brain] Zhang KC. **Chung Hua Wai Ko Tsa Chih** 1989 Jun;27(6):359-60, 382 (Eng. Abstr.) **(Chi)**

TRANSPLANTATION

A magnetic resonance imaging contrast agent differentiates between the vascular properties of fetal striatal tissue transplants and gliomas in rat brain in vivo. Norman AB, et al. **Brain Res** 1989 Nov 27;503(1):156-9
Connectivities of the striatal grafts in adult rat brain: a rich afference and scant striatonigral efference. Zhou FC, et al. **Brain Res** 1989 Dec 11;504(1):15-30
The use of a retroviral vector to identify foetal striatal neurones transplanted into the adult striatum. Emson PC, et al. **Exp Brain Res** 1990;79(2):427-30
Embryonic mesencephalic and striatal co-grafts: development of grafted dopamine neurons and functional recovery. Yurek DM, et al. **Exp Neurol** 1990 Aug; 109(2):191-9
Intrastriatal grafts derived from fetal striatal primordia: II. Reconstitution of cholinergic and dopaminergic systems. Liu FC, et al. **J Comp Neurol** 1990 May 1;295(1):1-14
Intrastriatal grafts derived from fetal striatal primordia. I. Phenotypy and modular organization. Graybiel AM, et al. **J Neurosci** 1989 Sep;9(9):3250-71
Gene expression in striatal grafts—I. Cellular localization of neurotransmitter mRNAs. Sirinathsinghji DJ, et al. **Neuroscience** 1990;34(3):675-86
Fetal striatal tissue grafts into excitotoxin-lesioned striatum: pharmacological and behavioral aspects. Norman AB, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):139-47

ULTRASTRUCTURE

Synaptic density of caudate-putamen and visual cortex following exposure to ethanol in utero. Lancaster F, et al. **Int J Dev Neurosci** 1989;7(6):581-9
Topographic intermingling of striatonigral and striatopallidal neurons in the rhesus monkey. Selemon LD, et al. **J Comp Neurol** 1990 Jul 15;297(3):359-76
[The ultrastructural changes in the synapses of the hyperstriatum of chicks after visual imprinting] Petrova LP, et al. **Zh Evol Biokhim Fiziol** 1990 Mar-Apr; 26(2):230-5 (Eng. Abstr.) **(Rus)**

CORRESPONDENCE

The Fenn and Adolph papers at the University of Rochester. Hoolihan C. **Caduceus** 1989 Winter;5(4):34-47
Confidentiality, competing manuscripts and correspondence columns. International Committee of Medical Journal Editors [editorial] **Can Med Assoc J** 1989 Dec 1; 141(11):1131-2
SNAP and dBASE. School of Nursing Admissions Program. Lindberg JB, et al. **Comput Nurs** 1990 Mar-Apr;8(2):66-72
The use of mail reminders in STD contact tracing in Ibadan, Nigeria. Asuzu MC, et al. **East Afr Med J** 1990 Feb; 67(2):75-8
Dear friends .... Oliver R, et al. **Geriatr Nurs (New York)** 1990 Mar-Apr;11(2):71
Comparison of acceptability by general practitioners of word processor and conventional discharge letters. Holyoake TI, et al. **Health Bull (Edinb)** 1990 Jan;48(1):29-35
A tale of three cities. The correspondence of William Sharpey and Allen Thomson. **Med Hist Suppl** 1989;9:1-174
Opinions on abortion as measured by the lost-letter technique. Kunz PR, et al. **Psychol Rep** 1989 Dec;65(3 Pt 2):1343-6
[Letters to the Editor and Short Communications (editorial)] Pulido M. **Med Clin (Barc)** 1989 Nov 11;93(15):576-7 **(Spa)**

HISTORY

The disinfection of letters: defense measures against epidemics. Meyer K. **Caduceus** 1989 Autumn;5(3):1-31
[Freud's letters as a historical source] Fichtner G. **Psyche (Stuttg)** 1989 Sep;43(9):803-29 (Eng. Abstr.) **(Ger)**
[The letter of Johannes Oporinus on Paracelsus] Benzenhöfer U. **Sudhoffs Arch** 1989;73(1):55-63 (Eng. Abstr.) **(Ger)**
[Meritorious and psychological significance of the letters from the Auschwitz concentration camp] Kłodziński S. **Przegl Lek** 1990;47(1):33-50 **(Pol)**
[Correspondence in the issues of "Auschwitz" in "Przeglad Lekarski" (XII)] Maslowski J. **Przegl Lek** 1990;47(1):204-17 **(Pol)**
[The image of S.P. Botkin based on his letters from Bulgaria ("S.P. Botkin's letters from Bulgaria, 1877")] Shu'itsev GP. **Klin Med (Mosk)** 1989 Oct;67(10):136-51 **(Rus)**

CORRESPONDENCE COURSES see **EDUCATION**

CORRIDOR DISEASE see **THEILERIASIS**

CORTEXONE see **DESOXYCORTICOSTERONE**

CORTICAL DEPRESSION, SPREADING see **SPREADING CORTICAL DEPRESSION**

CORTICAL SYNCHRONIZATION see under **ELECTROENCEPHALOGRAPHY**

CORTICOIDS see **ADRENAL CORTEX HORMONES**

CORTICOSPINAL TRACTS see **PYRAMIDAL TRACTS**

CORTICOSTEROID BINDING GLOBULIN see **TRANSCORTIN**

CORTICOSTEROIDS see **ADRENAL CORTEX HORMONES**

CORTICOSTERONE

ADMINISTRATION & DOSAGE

Epidural steroid injection in non-specific low backache. Sagar JV, et al. **J Indian Med Assoc** 1989 Sep;87(9):208-9
Protein synthesis in liver following infusion of the catabolic hormones corticosterone, epinephrine, and glucagon in rats. Pedersen P, et al. **Metabolism** 1989 Oct;38(10):927-32

ANALOGS & DERIVATIVES

Amplification of mineralocorticoid activity of aldosterone by 18-hydroxy-corticosterone and 18-hydroxy-19-nor-corticosterone in adrenalectomized rats. Rosenthal T, et al. **Endocr Res** 1990;16(2):185-91
Biological activity of the fatty acid ester metabolites of corticoids. Petrazzuoli M, et al. **Endocrinology** 1990 Aug; 127(2):555-9
Distribution of 11 beta-hydroxysteroid dehydrogenase along the rabbit nephron. Bonvalet JP, et al. **J Clin Invest** 1990 Sep;86(3):832-7
Trypsin stimulation of aldosterone and 18-hydroxycorticosterone production by rat adrenal zona glomerulosa tissue is mediated by activation of protein kinase C. Vinson GP, et al. **J Mol Endocrinol** 1990 Aug; 5(1):85-93
Adrenal adenoma with excess secretion of corticosterone and 18-hydroxycorticosterone. Morioka M, et al. **J Urol** 1990 Sep;144(3):731-2
Altered responses of plasma 18-hydroxycorticosterone and aldosterone to angiotensin II and adrenocorticotropin in patients with a 18-hydroxycorticosterone-producing tumor. Uchida K, et al. **Jpn J Med** 1989 Jul-Aug; 28(4):446-51
Actions of 3 alpha,5 alpha-tetrahydrodeoxycorticosterone on single neurones of the mesencephalic reticular formation in the rat. Ermirio R, et al. **Neurosci Lett** 1989 Sep 25; 104(1-2):115-20
[An assay for aldosterone precursors: a tool for clinical diagnosis and adrenal physiopathology] Legrand JC, et al. **Bull Acad Natl Med** 1989 Jun;173(6):735-9; discussion 739-41 (Eng. Abstr.) **(Fre)**
[The effect of angiotensin I converting enzyme inhibitor (SQ 14225) on plasma 18-hydroxycorticosterone and aldosterone in sodium depleted conscious rats] Yamamoto I, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Jan 20; 66(1):42-9 (Eng. Abstr.) **(Jpn)**
[Clinical significance of serum and urinary 18-hydroxycorticosterone analysis in endocrine tests of the adrenal cortex] Minato M, et al. **Nippon Rinsho** 1989 Dec; 48 Suppl:1227-30 **(Jpn)**
[Effects of cortiphen on human tumor strains transplanted into athymic mice and rats] Bukharova IK, et al. **Eksp Onkol** 1990;12(1):66-8 (Eng. Abstr.) **(Rus)**
[Effects of cortiphen and cyclophosphamide in uterine sarcoma induced primarily by 1,2-dimethylhydrazine and estradiol dipropionate in CBA mice] Merkulova IB, et al. **Eksp Onkol** 1990;12(1):68-70 (Eng. Abstr.) **(Rus)**

ANALYSIS

Genetic analysis of the distribution of corticosterone-containing cells in mouse adrenal cortex. Thaete LG, et al. **Proc Soc Exp Biol Med** 1990 Jun; 194(2):97-102

ANTAGONISTS & INHIBITORS

Effect of anabolic agents on muscle protein metabolism in growing rats treated with glucocorticoids: a short review. Fernández-González AL, et al. **Rev Esp Fisiol** 1989;45 Suppl:61-3 (28 ref.)

BIOSYNTHESIS

Mechanism of glucocorticoid enhancement of the responsiveness of ovine adrenocortical cells to adrenocorticotropin. Darbeida H, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1183-91
Developmental changes in the corticosterone response to corticotrophin and in the adrenal corticosterone content of rapid and slow growing strains of chickens (Gallus domesticus). Decuypere E, et al. **Br Poult Sci** 1989 Sep; 30(3):699-709
Time-dependent effects of increased serum prolactin levels on corticosterone synthesis and secretion in male rats. Villanúa MA, et al. **Endocr Res** 1990;16(2):241-54
Inhibitory effect of somatomedin C/insulin-like growth factor I on adrenocorticotropin- or forskolin-induced steroidogenesis in isolated rat adrenocortical cells. Fujii H, et al. **Endocrinology** 1990 Jan;126(1):26-30
Y-1 adrenocortical tumor cells contain atrial natriuretic peptide receptors which regulate cyclic nucleotide metabolism and steroidogenesis. Heisler S, et al. **Endocrinology** 1989 Nov;125(5):2235-43
Density separation of rat adrenocortical cells: morphology, steroidogenesis, and P-450scc expression in primary culture. Roskelley CD, et al. **In Vitro Cell Dev Biol** 1990 May;26(5):493-501
Possible site of action of 5-hydroperoxyeicosatetraenoic acid derived from arachidonic acid in ACTH-stimulated steroidogenesis in rat adrenal glands. Mikami K, et al. **J Endocrinol** 1990 Apr;125(1):89-96
Mechanism of action of serotonin on frog adrenal cortex. Idres S, et al. **J Steroid Biochem** 1989;34(1-6):547-50
Verapamil inhibits proliferation but not steroidogenesis of regenerating rat adrenal cortex. Zieleniewski W. **Life Sci** 1990;46(25):1851-5
[Effects of taktivin on corticosterone production by a suspension of mouse adrenal gland cells] Ignat'eva EV, et al. **Biull Eksp Biol Med** 1990 Jan;109(1):53-5 (Eng. Abstr.) **(Rus)**

BLOOD

Effect of adrenalectomy at different pregnancy stages on

maternal and fetal serum corticosteroid binding globulin and corticosterone in the rat. Cohen A, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):121–6

Appearance and persistence of 11 beta-hydroxypregna-1,4-diene-3,20-dione (delta HOP) effect "in vivo". Rondinone CM, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(2):181–8

Melperone and clozapine: neuroendocrine effects of atypical neuroleptic drugs. Meltzer HY, et al. **Acta Psychiatr Scand Suppl** 1989;352:24–9

Negative endocrine control system for inflammation in rats. Stenberg VI, et al. **Agents Actions** 1990 Mar;29(3–4):189–95

Neuropeptide Y in the hypothalamus: effect on corticosterone and single-unit activity. Albers HE, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R376–82

Diminished corticosterone levels in nude mice implanted with MCF-7 or ZR-75-1 human breast tumor cells. Lehrer S, et al. **Arch Gynecol Obstet** 1989;245(1–4):704–7

Soman intoxication-induced changes in serum acute phase protein levels, corticosterone concentration and immunosuppressive potency of the serum. Sevaljević L, et al. **Arch Toxicol** 1989;63(5):406–11

Adrenocortical activity during conditions of brief social separation in preweaning rats. Hennessy MMB, et al. **Behav Neural Biol** 1990 Jul;54(1):42–55

Effect of stressor intensity on habituation and sensitization of glucocorticoid responses in rats. Pitman DL, et al. **Behav Neurosci** 1990 Feb;104(1):28–36

Fatty liver and plasma corticosterone levels in chronically alcohol- and pair-fed rats. Venkatesan S, et al. **Biochem Soc Trans** 1989 Dec;17(6):1114–5

Dexamethasone suppression test in helpless rats. Greenberg L, et al. **Biol Psychiatry** 1989 Sep;26(5):530–2

Reserpine-induced DST nonsuppression in rats. Lowy MT, et al. **Biol Psychiatry** 1990 Mar 1;27(5):546–8

The influence of dexamethasone on behaviorally conditioned immunomodulation and plasma corticosterone. Kusnecov AW, et al. **Brain Behav Immun** 1990 Mar;4(1):50–66

Norepinephrine in the paraventricular nucleus stimulates corticosterone release. Leibowitz SF, et al. **Brain Res** 1989 Sep 4;496(1–2):219–27

Brain benzodiazepine receptor-mediated effects on plasma catecholamine and corticosterone concentrations in rats. De Boer SF, et al. **Brain Res Bull** 1990 Jun;24(6):843–7

Changes in gene expression in hippocampus in response to glucocorticoids and stress. Nichols NR, et al. **Brain Res Bull** 1990 May;24(5):659–62

Effects of ginseng root saponins on brain monoamines and serum corticosterone in heat-stressed mice. Yuan WX, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):492–6

Effect of gram-negative endotoxin on levels of serum corticosterone, TNF alpha, circulating blood cells, and the survival of rats. Feuerstein G, et al. **Circ Shock** 1990 Mar; 30(3):265–78

The influence of stress treatment on femur cortical bone porosity and medullary bone status in Japanese quail selected for high and low blood corticosterone response to stress. Satterlee DG, et al. **Comp Biochem Physiol [A]** 1990;95(3):401–5

Vitamin C amelioration of the adrenal stress response in broiler chickens being prepared for slaughter. Satterlee DG, et al. **Comp Biochem Physiol [A]** 1989;94(4):569–74

Effects of chlordiazepoxide and buspirone on plasma catecholamine and corticosterone levels in rats under basal and stress conditions. de Boer SF, et al. **Endocrinol Exp** 1990 Mar;24(1–2):229–39

Effect of chronic intracerebroventricular infusion of corticotropin-releasing factor on circadian corticosterone rhythm in the rat. Miyanaga K, et al. **Endocrinol Jpn** 1990 Feb;37(1):1–7

Rate-sensitive glucocorticoid feedback inhibition of adrenocorticotropin and beta-endorphin/beta-lipotropin secretion in rats. De Souza EB, et al. **Endocrinology** 1989 Dec;125(6):2927–34

Stressful crowding during pregnancy advances onset of offspring adrenocortical rhythm. Creighton JA, et al. **Exp Biol** 1988;48(1):57–62

Activation of the sympathoadrenal system in rats during hypokinesia. Macho L, et al. **Exp Clin Endocrinol** 1989 Sep; 94(1–2):127–32

Ovarian and adrenal function in the parthenogenetic whiptail lizard Cnemidophorus uniparens in the field and laboratory. Grassman M, et al. **Gen Comp Endocrinol** 1989 Dec; 76(3):444–50

Endocrine and behavioral responses to aggression and social dominance in the green anole lizard, Anolis carolinensis. Greenberg N, et al. **Gen Comp Endocrinol** 1990 Feb; 77(2):246–55

Testicular dysfunction in the adjuvant-induced arthritic rat. Clemens JW, et al. **J Androl** 1989 Nov–Dec;10(6):419–24

Steroid response to adrenocorticotropin stimulation in children with human immunodeficiency virus infection [see comments] Oberfield SE, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):578–81 Comment in: J Clin Endocrinol Metab 1990 Mar;70(3):563–5.

Changes in serum concentrations of ACTH, corticosterone and in growth following morning or evening injection of female rats with porcine growth hormone. Sillence MN, et al. **J Endocrinol** 1989 Oct;123(1):113–9

Restraint stress-induced elevations in plasma corticosterone and beta-endorphin are not accompanied by alterations in immune function. Flores CM, et al. **J Neuroimmunol** 1990 Aug;28(3):219–25

The effect of blood transfusions on immune function. V. The effect on the inflammatory response to bacterial infections. Waymack JP, et al. **J Surg Res** 1990 Feb;48(2):147–53

Effects of acupuncture on pain threshold and plasma corticosterone level at different times of the day. Cao W, et al. **J Tradit Chin Med** 1990 Jun;10(2):136–40

Effect of cage population density on plasma corticosterone and peripheral lymphocyte populations of laboratory mice. Peng X, et al. **Lab Anim** 1989 Oct;23(4):302–6

Distribution of cardiac output during pentobarbital versus midazolam/fentanyl/fluanisone anaesthesia in the rat. Skolleborg KC, et al. **Lab Anim** 1990 Jul;24(3):221–7

Plasma corticosterone and restraint induced gastric pathology: age-related differences after administration of corticotropin releasing factor. Bakke HK, et al. **Life Sci** 1989;45(10):907–16

Fetal and maternal levels of corticosterone and ACTH after pharmacological adrenalectomy. Baram TZ, et al. **Life Sci** 1990;47(6):485–9

Adenosine and pituitary-adrenocortical axis activity in the rat. Scaccianoce S, et al. **Neuroendocrinology** 1989 Oct; 50(4):464–8

Single-dose ethanol administration activates the hypothalamic-pituitary-adrenal axis: exploration of the mechanism of action. Thiagarajan AB, et al. **Neuroendocrinology** 1989 Oct;50(4):427–32

The behavioural, but not the hypothermic or corticosterone, response to 8-hydroxy-2-(DI-n-propylamino)-tetralin, is antagonized by NAN-190 in the rat. Przegaliński E, et al. **Neuropharmacology** 1990 Jun;29(6):521–6

Adrenocortical response following acute neurogenic stimuli is mediated by CRF-41. Weidenfeld J, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):189–94

The effects of phencyclidine on the pituitary-adrenal axis are centrally mediated in the rat. Pechnick RN, et al. **NIDA Res Monogr** 1989;95:526–7

Food deprivation alters behavioral and plasma corticosterone responses to phencyclidine in rats. Coveney JR, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):451–6

Individual behavioral and neuroendocrine differences in responsiveness to audiogenic stress. Irwin MR, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):913–7

Mouse strain differences in plasma corticosterone following uncontrollable footshock. Shanks N, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):515–9

Effects of ethanol on locomotor depression and corticosterone release induced by restraint-stress: support for a stress-ethanol interaction. Trudeau LE, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):273–8

Plasma corticosterone response in continuous versus discontinuous chronic heat exposure in rat. Cure M. **Physiol Behav** 1989 Jun;45(6):1117–22

Plasma catecholamine and corticosterone levels during active and passive shock-prod avoidance behavior in rats: effects of chlordiazepoxide. De Boer SF, et al. **Physiol Behav** 1990 Jun;47(6):1089–98

Dynamics of plasma catecholamine and corticosterone concentrations during reinforced and extinguished operant behavior in rats. de Boer SF, et al. **Physiol Behav** 1990 Apr;47(4):691–8

Plasma catecholamine, corticosterone and glucose responses to repeated stress in rats: effect of interstressor interval length. De Boer SF, et al. **Physiol Behav** 1990 Jun; 47(6):1117–24

Neonatal chronic stress induces subsensitivity to chronic stress in adult rats. I. Effects on forced swim behavior and endocrine responses. González AS, et al. **Physiol Behav** 1990 Apr;47(4):735–41

The lack of effect of repeated treatment with antidepressant drugs on the 8-OH-DPAT-induced increase in the serum corticosterone concentration. Przegaliński E, et al. **Pol J Pharmacol Pharm** 1989 Jan–Feb;41(1):63–8

Influence of exogenous prostaglandin E2 and stress on circulating corticosterone concentrations in Coturnix. Satterlee DG, et al. **Poult Sci** 1989 Sep;68(9):1289–93

Plasma corticosterone in dexamethasone suppression test on depressed patients. Li SW, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(2):72–9

Suppression of lymphocyte activity after acute morphine administration appears to be glucocorticoid independent. Bayer BM, et al. **Prog Clin Biol Res** 1990;325:273–82

Thymopentin antagonizes stress-induced changes of GABA/benzodiazepine receptor complex. Klusa V, et al. **Regul Pept** 1990 Mar 5;27(3):355–65

Action of N6(amido-3-propyl) adenosine hydrochloride (Agr 529) on plasma corticosterone levels in rats. Bonifacj JF, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun; 68(3):299–305

Sex differences in adrenocortical structure and function. XXVII. The effect of ether stress on ACTH and corticosterone in intact, gonadectomized, and testosterone- or estradiol-replaced rats. Leśniewska B, et al. **Res Exp Med (Berl)** 1990;190(2):95–103

Role of maternal plasma corticosterone elevation in the teratogenicity of secalonic acid D in mice. Eldeib MM, et al. **Teratology** 1990 Feb;41(2):137–46

[Effects of yang-restoring herb medicines on the levels of plasma corticosterone, testosterone and triiodothyronine] Kuang AK, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec;9(12):737–8, 710 (Eng. Abstr.) (Chi)

[Endocrine and lymphoid interrelations in rats with hereditary arterial hypertension] Shorin IuP, et al. **Arkh Anat Gistol Embriol** 1990 Apr;98(4):57–61 (Eng. Abstr.) (Rus)

[Effects of ethanol on the concentration of neuropeptides, ACTH and corticosterone during immobilization stress] Iukhananov RIu, et al. **Biull Eksp Biol Med** 1989 Oct; 108(10):455–7 (Eng. Abstr.) (Rus)

[Determination of corticosterone in the rat plasma using adsorption micro-HPLC] Khokha AM. **Vopr Med Khim** 1989 Sep–Oct;35(5):122–7 (Eng. Abstr.) (Rus)

[Effect of oxytocin and naloxone on the plasma levels of corticosterone in the rat] Montilla P, et al. **Rev Esp Fisiol** 1989 Dec;45(4):319–22 (Eng. Abstr.) (Spa)

METABOLISM

Effect of carrageenan-induced acute inflammation on corticosterone levels in mice. Sin YM, et al. **Agents Actions** 1990 Mar;29(3–4):196–200

Behavioral, hormonal and neurochemical characteristics of aggressive alpha-mice. Hilakivi LA, et al. **Brain Res** 1989 Nov 13;502(1):158–66

Adrenal steroid type I and type II receptor binding: estimates of in vivo receptor number, occupancy, and activation with varying level of steroid. Spencer RL, et al. **Brain Res** 1990 Apr 23;514(1):37–48

Ontogeny of mineralocorticoid (type I) receptors in brain and pituitary: an in vivo autoradiographical study. Rosenfeld P, et al. **Brain Res Dev Brain Res** 1990 Mar 1;52(1–2):57–62

Interleukin-6 and ACTH act synergistically to stimulate the release of corticosterone from adrenal gland cells. Salas MA, et al. **Clin Exp Immunol** 1990 Mar;79(3):470–3

Suramin prevents ACTH-stimulated corticosterone release by dispersed adrenocortical cells. Marzouk HF, et al. **Endocrinology** 1990 Jan;126(1):666–8

Temporal changes in prolactin and corticosterone response during chronic treatment with d-fenfluramine. Serri O, et al. **Horm Res** 1989;31(4):180–3

C19 and C21 5 beta/5 alpha metabolite ratios in subjects treated with the 5 alpha-reductase inhibitor finasteride: comparison of male pseudohermaphrodites with inherited 5 alpha-reductase deficiency. Imperato-McGinley J, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):777–82

Human fetal adrenal definitive and fetal zone metabolism of pregnenolone and corticosterone: alternate biosynthetic pathways and absence of detectable aldosterone synthesis. Nelson HP, et al. **J Clin Endocrinol Metab** 1990 Mar; 70(3):693–8

Characterization of glucocorticoid receptors bound with corticosterone. Svec F, et al. **J Recept Res** 1989; 9(4–5):405–14

Evidence that corticosterone is not an obligatory intermediate in aldosterone biosynthesis in the rat adrenal. Häusler A, et al. **J Steroid Biochem** 1989;34(1–6):567–70

Studies on antinephritic effect of TJ-8014, a new Japanese herbal medicine, and its mechanisms (2): Effect on the release of corticosterone from adrenal glands. Hattori T, et al. **Jpn J Pharmacol** 1989 Sep;51(1):117–24

Corticosterone's dual metabolic actions. Devenport L, et al. **Life Sci** 1989;45(15):1389–96

The effect of partial noradrenergic denervation on corticosterone secretion in the rat. Daniels WM, et al. **Neurochem Res** 1989 Dec;14(12):1187–90

Receptor binding of corticosterone by various brain structures in extreme states of the organism. Dudina TV. **Neurosci Behav Physiol** 1989 Jul–Aug;19(4):337–40

Prior stress attenuates the analgesic response but sensitizes the corticosterone and cortical dopamine responses to stress 10 days later. Caggiula AR, et al. **Psychopharmacology (Berlin)** 1989;99(2):233–7

[Experimental studies on stress hormones at the time of sudden death (II)—Differences in adrenocortical hormone levels of cardiac arrest-preceding type and apnea preceding type sudden death under cerebral ischemia or aortic stenosis] Tsunoda K, et al. **Nippon Hoigaku Zasshi** 1989 Dec;43(6):453–9 (Eng. Abstr.) (Jpn)

[The activation of specific type-III glucocorticoid receptors by pyrazolone series preparations] Golikov PP, et al. **Patol Fiziol Eksp Ter** 1989 Jul–Aug;(4):19–22 (Eng. Abstr.) (Rus)

[Hormone-protein interactions and functional activity of the adrenal cortex during adaptation to pressure chamber hypoxia] Nadol'nik LI, et al. **Ukr Biokhim Zh** 1989 Nov–Dec;61(6):37–43 (Eng. Abstr.) (Rus)

PHARMACOLOGY

Long-lasting reduction of glucocorticoid receptor immunoreactivity in the hippocampal field CA1 but not in the dentate gyrus after neonatal treatment with corticosterone in the rat. Zoli M, et al. **Acta Physiol Scand** 1990 Apr;138(4):577–9

Glycogenesis and glyconeogenesis in skeletal muscle: effects of pH and hormones. Bonen A, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E693–700

Steroid metabolism determines mineralocorticoid specificity in the toad bladder. Gaeggeler HP, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F690–5

ICV infusion of corticosterone antagonizes ICV-aldosterone hypertension. Gómez-Sánchez EP, et al. **Am J Physiol** 1990

Apr;258(4 Pt 1):E649–53
Hippocampal glutamine synthetase: insensitivity to glucocorticoids and stress. Tombaugh GC, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E894–7
Gastric and duodenal mucosal ornithine decarboxylase and damage after corticosterone. Wang JY, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):G942–50
Effects of chronic corticosterone treatment on the morphology of rat neuromuscular junctions. Fahim MA, et al. **Anat Rec** 1990 May;227(1):132–7
Are the catabolic effects of tumor necrosis factor mediated by glucocorticoids? Mealy K, et al. **Arch Surg** 1990 Jan; 125(1):42–7; discussion 47–8
Effects of adrenalectomy and corticosterone on hippocampal lesions induced by trimethyltin. Chang LW, et al. **Biomed Environ Sci** 1989 Mar;2(1):54–64
Factors affecting chicken thrombocyte morphology and the relationship with heterophil:lymphocyte ratios. Gross WB. **Br Poult Sci** 1989 Dec;30(4):919–25
Corticosterone-dependent alterations in utilization of catecholamines in discrete areas of rat brain. Jhanwar-Uniyal M, et al. **Brain Res** 1989 Oct 23; 500(1–2):247–55
Suppression of neuropeptide Y-elicited eating by adrenalectomy or hypophysectomy: reversal with corticosterone. Stanley BG, et al. **Brain Res** 1989 Oct 30; 501(1):32–6
PVN steroid implants: effect on feeding patterns and macronutrient selection. Tempel DL, et al. **Brain Res Bull** 1989 Dec;23(6):553–60
Messenger RNA for glial fibrillary acidic protein is decreased in rat brain following acute and chronic corticosterone treatment. Nichols NR, et al. **Brain Res Mol Brain Res** 1990 Jan;7(1):1–7
Rapid corticosterone inhibition of corticotropin-releasing hormone binding and adrenocorticotropin release by enriched populations of corticotropes: counteractions by arginine vasopressin and its second messengers. Childs GV, et al. **Endocrinology** 1990 Apr;126(4):1967–75
Differential effects of in vitro glucocorticoids on luteinizing hormone and follicle-stimulating hormone secretion: dependence on sex of pituitary donor. D'Agostino J, et al. **Endocrinology** 1990 Aug;127(2):891–9
Biological activity of the fatty acid ester metabolites of corticoids. Petrazzuoli M, et al. **Endocrinology** 1990 Aug; 127(2):555–9
Adrenalectomy in the neonate: adult-like adrenocortical system responses to both removal and replacement of corticosterone. Walker CD, et al. **Endocrinology** 1990 Aug; 127(2):832–42
The action of corticosterone on schedule-induced wheelrunning. Lin WJ, et al. **Eur J Pharmacol** 1989 Nov 14;171(1):9–15
Effects of corticosterone, metapyrone, and ACTH on testicular function at different stages of the breeding cycle in migratory redheaded bunting, Emberiza bruniceps. Chaturvedi CM, et al. **Gen Comp Endocrinol** 1990 Apr; 78(1):1–11
Effects of corticosterone on responses of murine splenic B and T cells to phytohemagglutinin, concanavalin A, and lipopolysaccharide. Stevenson JR, et al. **Immunol Invest** 1989 Oct;18(8):951–60
Effects of thyroidal, gonadal and adrenal hormones on tissue respiration of streaked frog, Rana limnocharis, at low temperature. Gupta BB, et al. **Indian J Exp Biol** 1990 Jan; 28(1):23–6
Regulation of phenylethanolamine N-methyltransferase (PNMT) mRNA in the rat adrenal medulla by corticosterone. Jiang W, et al. **Int J Dev Neurosci** 1989; 7(5):513–20
Corticosterone regulates calbindin-D28k mRNA and protein levels in rat hippocampus. Iacopino AM, et al. **J Biol Chem** 1990 Jun 25;265(18):10177–80
Adipose conversion of 3T3-L1 cells in a serum-free culture system depends on epidermal growth factor, insulin-like growth factor I, corticosterone, and cyclic AMP. Schmidt W, et al. **J Biol Chem** 1990 Sep 15;265(26):15489–95
The steroid-dependent regulatory element in the ovalbumin gene does not function as a typical steroid response element. Schweers LA, et al. **J Biol Chem** 1990 May 5; 265(13):7590–5
Combined effects of tumor necrosis factor-alpha, prostaglandin E2, and corticosterone on induced Ia expression on murine macrophages. Zimmer T, et al. **J Immunol** 1990 Aug 15;145(4):1167–75
Calmodulin involvement in stress- and corticosterone-induced down-regulation of cyclic AMP-generating systems in brain. Gannon MN, et al. **J Neurochem** 1990 Jul;55(1):276–84
Corticosterone alone does not explain increased muscle proteolysis in septic rats. Hall-Angerås M, et al. **J Surg Res** 1990 Apr;48(4):368–72
Nerve conduction studies in chickens given phenyl saligenin phosphate and corticosterone. Lidsky TI, et al. **J Toxicol Environ Health** 1990;29(1):65–75
Influence of corticosterone on tracheal mucociliary transport in pigeons. Kai H, et al. **Jpn J Pharmacol** 1990 Mar; 52(3):496–9
The effects of corticosterone implantation on schedule-induced wheelrunning and HPA function in intact rats. Lin WJ, et al. **Life Sci** 1990;46(20):1451–6
Effect of hypophysectomy on schedule-induced wheelrunning. Lin WJ, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):739–42
Effects of food restriction and adrenalectomy in rats with VMH or PVH lesions. Tokunaga K, et al. **Physiol Behav** 1989 Jun;45(6):1131–7
Response of White Leghorn chicks fed ascorbic acid and challenged with Escherichia coli or with corticosterone. van Niekerk T, et al. **Poult Sci** 1989 Dec;68(12):1631–6
Mineralocorticoid receptor-mediated changes in membrane properties of rat CA1 pyramidal neurons in vitro. Joëls M, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4495–8
Chronic corticosterone administration modulates nicotine sensitivity and brain nicotinic receptor binding in C3H mice. Pauly JR, et al. **Psychopharmacology (Berl)** 1990; 101(3):310–6
Interaction between corticosterone and tumor necrosis factor stimulated protein breakdown in rat skeletal muscle, similar to sepsis. Hall-Angerås M, et al. **Surgery** 1990 Aug; 108(2):460–6
[Rapid membrane effects of adrenocorticoids on celiac ganglion cells of guinea pig] Wu LG, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):306–10 (Eng. Abstr.) **(Chi)**
[The postnatal development of the genital system in male rats following the prenatal administration of corticosterone] Shishkina GT, et al. **Ontogenez** 1989 Jul–Aug;20(4):431–4 (Eng. Abstr.) **(Rus)**
[The effect of emotional stress and corticosterone on the activity of monoaminoxidase in the rat brain] Popova NK, et al. **Vopr Med Khim** 1989 Jul–Aug;35(4):114–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The influence of adrenalectomy on alpha-adrenoceptor responses in rat cerebral cortex slices. Robinson JP, et al. **Brain Res Mol Brain Res** 1990 Jan;7(1):69–74
The determination of the adrenal medullary cell fate during embryogenesis. Seidl K, et al. **Dev Biol** 1989 Dec; 136(2):481–90
Short term effects of glucocorticoids upon hippocampal ultrastructure. Miller MM, et al. **Exp Brain Res** 1989; 77(2):309–14
The role of the neuroendocrine system in determining genetic susceptibility to experimental allergic encephalomyelitis in the rat. Mason D, et al. **Immunology** 1990 May;70(1):1–5
Effect of corticosterone on epididymal lipids in pubertal rat. Balasubramanian K, et al. **Indian J Exp Biol** 1989 Aug; 27(8):709–13
Effect of adrenalectomy on ethanol-associated immunosuppression. Jerrells TR, et al. **Int J Immunopharmacol** 1990;12(4):435–42
Response of exocrine pancreas to corticosterone and aldosterone after adrenalectomy. Alliet P, et al. **J Steroid Biochem** 1989 Dec;33(6):1097–102
Decreased sensitivity to glucocorticoid fast feedback in chronically stressed rats. Young EA, et al. **Neuroendocrinology** 1990 May;51(5):536–42
Acute, chronic, and interactive effects of type I and II corticosteroid receptor stimulation on feeding and weight gain. Devenport L, et al. **Physiol Behav** 1990 Jun; 47(6):1221–8
[Adrenal regeneration hypertension—effects of vascular connective tissue protein and plasma corticosterone on hypertension in rats with adrenal regeneration hypertension] Nakada T, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Jan;81(1):49–53 (Eng. Abstr.) **(Jpn)**

SECRETION

Antagonistic action of naloxone on central histamine receptors-stimulated corticosterone secretion in rats under stress. Gądek-Michalska A, et al. **Agents Actions** 1989 Nov; 28(3–4):159–63
The Pavlovian conditioning of IL-1-induced glucocorticoid secretion. Dyck DG, et al. **Brain Behav Immun** 1990 Jun; 4(2):93–104
Effects of endogenous and exogenous cholesterol on the ultrastructure and steroid secretion of undifferentiated rat adrenocortical cells in primary culture. Heikkilä P. **Cell Tissue Res** 1990 Mar;259(3):421–7
Corticosterone secretion-inducing activity of saikosaponin metabolites formed in the alimentary tract. Nose M, et al. **Chem Pharm Bull (Tokyo)** 1989 Oct;37(10):2736–40
Differential effects of dopamine on glucoregulatory hormones in rats. Keck FS, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):155–9
Effects of systemic and intracerebroventricular phenylephrine and clonidine on corticosterone secretion in rats. Gądek-Michalska A, et al. **Endocrinol Exp** 1990 Mar;24(1–2):249–58
The muscarinic cholinergic agonist arecoline stimulates the rat hypothalamic-pituitary-adrenal axis through a centrally-mediated corticotropin-releasing hormone-dependent mechanism. Calogero AE, et al. **Endocrinology** 1989 Nov;125(5):2445–53
Different control of the adrenocorticotropin-corticosterone response and of prolactin secretion during cold stress, anesthesia, surgery, and nicotine injection in the rat: involvement of capsaicin-sensitive sensory neurons. Donnerer J, et al. **Endocrinology** 1990 Feb;126(2):921–6
Adrenal secretion of glucocorticoids during hypoxemia in fetal sheep. Jackson BT, et al. **Endocrinology** 1989 Nov; 125(5):2751–7
Morphology and functional responses of isolated zona glomerulosa cells of streptozotocin-induced diabetic rats. Andreis PG, et al. **Exp Pathol** 1990;39(2):65–71
Neuropeptide Y inhibits corticosterone secretion by isolated rat adrenocortical cells. Malendowicz LK, et al. **Experientia** 1990 Jul 15;46(7):721–2
Diminished diurnal secretion of corticosterone in aging female but not male rats. Goya RG, et al. **Gerontology** 1989; 35(4):181–7
Secretory patterns of 1 alpha-hydroxycorticosterone in the isolated perifused interrenal gland of the dogfish, Scyliorhinus canicula. O'Toole LB, et al. **J Mol Endocrinol** 1990 Aug;5(1):55–60
Neuroendocrine evidence for denervation supersensitivity of serotonin receptors: effects of the 5-HT agonist RU 24969 on corticotropin, corticosterone, prolactin and renin secretion. Van de Kar LD, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):428–34
Mechanism of virus-induced stimulation of the hypothalamus-pituitary-adrenal axis. Besedovsky HO, et al. **J Steroid Biochem** 1989;34(1–6):235–9
Adrenal adenoma with excess secretion of corticosterone and 18-hydroxycorticosterone. Morioka M, et al. **J Urol** 1990 Sep;144(3):731–2
Effect of gamma-aminobutyric acid on corticosterone secretion: involvement of the noradrenergic system. Míguez I, et al. **Life Sci** 1990;46(12):875–80
The effect of intrahippocampal injection of kainic acid on corticosterone release in rats. Daniels WM, et al. **Neurochem Res** 1990 May;15(5):495–9
Evidence for central and peripheral serotonergic control of corticosterone secretion in the conscious rat. Alper RH. **Neuroendocrinology** 1990 Mar;51(3):255–60
Homeostatic thymus hormone stimulates corticosterone secretion in a dose- and age-dependent manner in rats. Goya RG, et al. **Neuroendocrinology** 1990 Jan;51(1):59–63
Stress-induced renin and corticosterone secretion is mediated by catecholaminergic nerve terminals in the hypothalamic paraventricular nucleus. Richardson Morton KD, et al. **Neuroendocrinology** 1990 Mar;51(3):320–7
Intracerebroventricular injection of platelet-activating factor induces secretion of adrenocorticotropin, beta-endorphin and corticosterone in conscious rats: a possible link between the immune and nervous systems. Rougeot C, et al. **Neuroendocrinology** 1990 Mar;51(3):267–75
Effect of interleukin-1 on ACTH and corticosterone secretion in dexamethasone and adrenalectomized pretreated male rats. Weidenfeld J, et al. **Neuroendocrinology** 1989 Dec;50(6):650–4
Selective cross-tolerance to 5-HT1A and 5-HT2 receptor-mediated temperature and corticosterone responses. Nash JF Jr, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):781–5
Stimulation of corticosterone secretion by the selective 5-HT1A receptor agonist 8-hydroxy-2-(di-n-propylamino)tetralin (8-OH-DPAT) in the rat. Przegaliński E, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):329–34
Hypothalamo-pituitary-adrenal manipulations and stress ulcerations in rats. Murison R, et al. **Psychoneuroendocrinology** 1989;14(5):331–8
Prolactin and corticosterone response to repeated footshock stress in male rats. Ratner A, et al. **Psychoneuroendocrinology** 1989;14(5):393–6
[Experimental studies of the effects of estradiol and thyroxine on the fascicular layer of the adrenal cortex] Zwirska-Korczala K, et al. **Patol Pol** 1989;40(3):353–60 (Eng. Abstr.) **(Pol)**
[Analysis of factors determining sex differences in stress reactions of white rats] Anishchenko TG, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):616–8 (Eng. Abstr.) **(Rus)**
[Characteristics of the secretory behavior of cortisol-producing adenoma-corticosteroma] Bozadzhieva E, et al. **Vestn Khir** 1990 Jan;144(1):57–60 **(Rus)**
[Tumors of the adrenal glands in children] Lishke AA, et al. **Vestn Khir** 1989 Apr;142(4):67 **(Rus)**

THERAPEUTIC USE

Corticosterone, but not glucose, treatment enables fasted adrenalectomized rats to survive moderate hemorrhage. Darlington DN, et al. **Endocrinology** 1990 Aug; 127(2):766–72

URINE

Analysis of corticosterone in rat urine by high-performance liquid chromatography and fluorimetry using post-column reaction with sulphuric acid. Sudo A. **J Chromatogr** 1990 Jun 29;528(2):453–8

CORTICOTROPIN see **ADRENOCORTICOTROPIC HORMONE**

1-24-CORTICOTROPIN see **COSYNTROPIN**

CORTICOTROPIN-RELEASING FACTOR see **CORTICOTROPIN-RELEASING HORMONE**

CORTICOTROPIN-RELEASING HORMONE

ADMINISTRATION & DOSAGE

Peripheral but not intracerebroventricular corticotropin-releasing hormone (CRH) produces antinociception which is not opioid mediated. Ayesta FJ, et al. **Brain Res** 1989 Dec 4;503(2):219-24

ANALOGS & DERIVATIVES

The effects of corticotrophin-releasing factor and two antagonists on breathing movements in fetal sheep. Bennet L, et al. **J Physiol (Lond)** 1990 Feb;421:1-11

ANALYSIS

Corticotropin-releasing hormone in amniotic fluid [letter] Laatikainen T. **Am J Obstet Gynecol** 1990 Sep; 163(3):1102-3

Corticotropin-releasing hormone, luteinizing hormone-releasing hormone, growth hormone-releasing hormone, and somatostatin-like immunoreactivities in biopsies from breast cancer patients. Ciocca DR, et al. **Breast Cancer Res Treat** 1990 May;15(3):175-84

Corticotrophin releasing factor in man and its measurement: a review. Linton EA, et al. **Clin Endocrinol (Oxf)** 1989 Aug;31(2):225-49 (204 ref.)

Assays for corticotropin-releasing factor (CRF) using rats treated with morphine, chlorpromazine, dexamethasone and Nembutal. Arimura A, et al. **Endocrinology** 1967 Aug; 81(2):235-45

Immunohistochemical localization of corticotropin-releasing factor- and arginine vasotocin-like immunoreactivities in the brain and pituitary of the American bullfrog (Rana catesbeiana) during development and metamorphosis. Carr JA, et al. **Gen Comp Endocrinol** 1990 May;78(2):180-8

Association of dopaminergic fibers with corticotropin releasing hormone (CRH)-synthesizing neurons in the paraventricular nucleus of the rat hypothalamus. Liposits Z, et al. **Histochemistry** 1989;93(2):119-27

Immunoreactive corticotropin releasing factor in adult and developing rat cerebellum: its presence in climbing and mossy fibres. van den Dungen HM, et al. **J Chem Neuroanat** 1988 Nov-Dec;1(6):339-49

Immunoreactive corticotropin-releasing hormone, growth hormone-releasing hormone, somatostatin, and peptide histidine methionine are present in adrenal pheochromocytomas, but not in extra-adrenal pheochromocytoma. Sasaki A, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):996-9

Oxytocinergic neurons in rat hypothalamus. Dexamethasone-reversible increase in their corticotropin-releasing factor-41-like immunoreactivity in response to osmotic stimulation. Dohanics J, et al. **Neuroendocrinology** 1990 May;51(5):515-22

Corticotropin-releasing factor and parturition: plasma and amniotic fluid levels and placental binding sites. Petraglia F, et al. **Obstet Gynecol** 1990 May;75(5):784-9

Opiocortin and catecholamine input to CRF-immunoreactive neurons in rat forebrain. Hornby PJ, et al. **Peptides** 1989 Nov-Dec;10(6):1139-46

ANTAGONISTS & INHIBITORS

Thyrotropin-releasing factor-induced adrenocorticotropin secretion is mediated by corticotropin-releasing factor. Brown MR, et al. **Endocrinology** 1989 Nov;125(5):2558-62

Rapid corticosterone inhibition of corticotropin-releasing hormone binding and adrenocorticotrophin release by enriched populations of corticotropes: counteractions by arginine vasopressin and its second messengers. Childs GV, et al. **Endocrinology** 1990 Apr;126(4):1967-75

Cardiovascular responses to exercise in the rat: role of corticotropin-releasing factor. Kregel KC, et al. **J Appl Physiol** 1990 Feb;68(2):561-7

Decreased inflammatory responsiveness of hypophysectomized rats to heat is reversed by a corticotropin-releasing factor (CRF) antagonist. Wei ET, et al. **Regul Pept** 1990 Mar 5;27(3):317-23

BIOSYNTHESIS

Estradiol or ovariectomy decreases CRF synthesis in hypothalamus. Haas DA, et al. **Brain Res Bull** 1989 Sep; 23(3):215-8

Neuroendocrine alterations in nude mice with a human lung carcinoma producing pro-opiomelanocortin, corticotrophin-releasing hormone and arginine vasopressin. Morano MI, et al. **Clin Endocrinol (Oxf)** 1990 Mar; 32(3):349-62

Corticotropin-releasing factor is produced by rat Leydig cells and has a major local antireproductive role in the testis. Fabbri A, et al. **Endocrinology** 1990 Sep; 127(3):1541-3

Evidence for the synthesis of pro-CRF (corticotropin-releasing factor) in cultured fetal pancreatic islets of rats. Robichon A, et al. **Exp Cell Res** 1989 Nov; 185(1):283-91

Developmental expression of corticotropin releasing hormone messenger RNA and peptide in rat hypothalamus. Emanuel RL, et al. **Peptides** 1989 Nov-Dec;10(6):1165-9

BLOOD

Enhancement of plasma corticotropin-releasing hormone in pregnancy-induced hypertension. Jeske W, et al. **Acta Endocrinol (Copenh)** 1990 Jun;122(6):711-4

Corticotropin-releasing factor-binding protein is a glycoprotein. Suda T, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):703-7

CSF corticotropin-releasing factor (CRF) in Alzheimer's disease: its relationship to severity of dementia and monoamine metabolites. Pomara N, et al. **Biol Psychiatry** 1989 Sep;26(5):500-4

Plasma corticotrophin-releasing factor and vasopressin responses to hypoglycaemia in normal man. Ellis MJ, et al. **Clin Endocrinol (Oxf)** 1990 Jan;32(1):93-100

Radioimmunoassay of corticotropin releasing hormone and growth hormone releasing hormone in extracted and unextracted human plasma. Jeske W, et al. **Endokrynol Pol** 1989;40(5):215-26

Radioimmunological determination of exogenous corticotropin-releasing hormone (CRH) and growth hormone-releasing hormone (GHRH): plasma half-life of CRH and GHRH. Soszyński P, et al. **Endokrynol Pol** 1989; 40(5):227-33

Immunoreactive corticotropin-releasing hormone, adrenocorticotropin and cortisol in human plasma during pregnancy and delivery and postpartum. Okamoto E, et al. **Horm Metab Res** 1989 Oct;21(10):566-72

Corticotrophin-releasing peptides in rat hypophysial portal blood after paraventricular lesions: a marked reduction in the concentration of corticotrophin-releasing factor-41, but no change in vasopressin. Antoni FA, et al. **J Endocrinol** 1990 May;125(2):175-83

Elevated maternal plasma corticotropin releasing hormone levels in twin gestation. Warren WB, et al. **J Perinat Med** 1990;18(1):39-44

Mood changes, obstetric experience and alterations in plasma cortisol, beta-endorphin and corticotrophin releasing hormone during pregnancy and the puerperium. Smith R, et al. **J Psychosom Res** 1990;34(1):53-69

Dynamic training and circulating levels of corticotropin-releasing factor, beta-lipotropin and beta-endorphin in rheumatoid arthritis. Ekdahl C, et al. **Pain** 1990 Jan;40(1):35-42

CEREBROSPINAL FLUID

Dementia of the Alzheimer type and hypothalamus-pituitary-adrenocortical axis: changes in cerebrospinal fluid corticotropin releasing factor and plasma cortisol levels. Martignoni E, et al. **Acta Neurol Scand** 1990 May;81(5):452-6

Cerebrospinal fluid levels of somatostatin, corticotropin-releasing hormone and corticotropin in alcoholism. Roy A, et al. **Acta Psychiatr Scand** 1990 Jul; 82(1):44-8

Diazepam-binding inhibitor and corticotropin-releasing hormone in cerebrospinal fluid. Roy A, et al. **Acta Psychiatr Scand** 1989 Sep;80(3):287-91

Relationship of cognitive factors to CSF corticotropin-releasing hormone in depression. De Jong JA, et al. **Am J Psychiatry** 1990 Mar;147(3):350-2

Cerebrospinal fluid corticotropin-releasing factor levels and stimulation test in dementia of the Alzheimer type. Martignoni E, et al. **J Clin Lab Anal** 1990;4(1):5-8

DIAGNOSTIC USE

Hypothalamic-pituitary-adrenal axis functioning and cerebrospinal fluid corticotropin releasing hormone and corticotropin levels in alcoholics after recent and long-term abstinence. Adinoff B, et al. **Arch Gen Psychiatry** 1990 Apr; 47(4):325-30

Beta-lipotropin-beta-endorphin response to low-dose ovine corticotropin releasing factor in endogenous depression. Preliminary studies. Young EA, et al. **Arch Gen Psychiatry** 1990 May;47(5):449-57

Consistent reduction of ACTH responses to stimulation with CRH, vasopressin and hypoglycaemia in patients with major depression. Kathol RG, et al. **Br J Psychiatry** 1989 Oct;155:468-78

Pituitary-adrenal responses to corticotropin-releasing factor in late onset 21-hydroxylase deficiency. Carmina E, et al. **Fertil Steril** 1990 Jul;54(1):79-83

Ovine corticotropin-releasing factor and dexamethasone responses in hyperandrogenic women. Carmina E, et al. **Fertil Steril** 1990 Aug;54(2):245-50

CRH and lysine-vasopressin stimulation tests in the diagnosis of hypoadrenalism secondary to hypothalamic or pituitary disorders. Cantalamessa L, et al. **Horm Metab Res** 1990 Jul;22(7):389-93

Abnormal cortisol secretion and responses to corticotropin-releasing hormone in women with hypothalamic amenorrhea. Biller BM, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):311-7

Effect of metyrapone pretreatment on adrenocorticotropin secretion induced by corticotropin-releasing hormone in normal subjects and patients with Cushing's disease. Totani Y, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):798-803

Endocrine activity of the "silent" adrenocortical adenoma is uncovered by response to corticotropin-releasing hormone. Hensen J, et al. **Klin Wochenschr** 1990 Jun 19; 68(12):608-14

Human CRH stimulation response during acute withdrawal and after medium-term abstention from alcohol abuse. von Bardeleben U, et al. **Psychoneuroendocrinology** 1989; 14(6):441-9

Petrosal sinus sampling: discordant lateralization of ACTH-secreting pituitary microadenomas before and after stimulation with corticotropin-releasing hormone. Miller DL, et al. **Radiology** 1990 Aug;176(2):429-31

[Corticotropin-releasing hormone (CRH) test for monitoring glucocorticoid therapy] Schlaghecke R, et al. **Dtsch Med Wochenschr** 1990 Jul 27;115(30):1136-40 (Eng. Abstr.) **(Ger)**

[Clinical significance of the diagnostic use and assay of corticotropin-releasing hormone in the physiopathologic state of the hypothalamo-pituitary-adrenal axis] Nishikawa T, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:182-4 **(Jpn)**

[Endocrinological analysis of climacteric symptoms and gonadal dysfunction by CRF test] Yakubo K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jun;42(6):553-60 (Eng. Abstr.) **(Jpn)**

[Investigation of Cushing's syndrome. The diagnostic value of the dexamethasone suppression test, the metopirone test and the CRF test] Johannesen O, et al. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2678-82 (Eng. Abstr.) **(Nor)**

GENETICS

Differential regulation of corticotropin-releasing hormone mRNA in rat brain. Frim DM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E686-92

Corticotrophin-releasing factor-like immunoreactivity and mRNA in human leukocytes. Stephanou A, et al. **Brain Behav Immun** 1990 Mar;4(1):67-73

Second messengers involved in the regulation of corticotropin-releasing hormone mRNA and peptide in cultured rat fetal hypothalamic primary cultures. Emanuel RL, et al. **Endocrinology** 1990 Jun;126(6):3016-21

Interleukin-1 stimulates corticotropin-releasing factor gene expression in rat hypothalamus. Suda T, et al. **Endocrinology** 1990 Feb;126(2):1223-8

Glucocorticoid repression of 3',5'-cyclic-adenosine monophosphate-dependent human corticotropin-releasing-hormone gene promoter activity in a transfected mouse anterior pituitary cell line. Van LP, et al. **Endocrinology** 1990 Sep;127(3):1412-8

Structural analysis of the regulatory region of the human corticotropin releasing hormone gene. Vamvakopoulos NC, et al. **FEBS Lett** 1990 Jul 2;267(1):1-5

Expression of the corticotropin-releasing hormone (CRH) gene in human placenta and amniotic membrane. Okamoto E, et al. **Horm Metab Res** 1990 Jul;22(7):394-7

Optokinetic stimulation increases corticotropin-releasing factor mRNA in inferior olivary neurons of rabbits. Barmack NH, et al. **J Neurosci** 1990 Feb;10(2):631-40

Regulated expression of the human corticotropin releasing hormone gene by cyclic AMP. Adler GK, et al. **Mol Cell Endocrinol** 1990 Apr 17;70(2):165-74

Regulation of human corticotropin-releasing hormone gene expression by 3',5'-cyclic adenosine monophosphate in a transformed mouse corticotroph cell line. Dorin RI, et al. **Mol Endocrinol** 1989 Oct;3(10):1537-44

Rat corticotropin-releasing hormone gene: sequence and tissue-specific expression. Thompson RC, et al. **Mol Endocrinol** 1987 May;1(5):363-70

Complementary nucleotide sequence for monitor peptide, a novel cholecystokinin-releasing peptide in the rat. Fukuoka SI, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10111

Coexistence of CRF peptide and oxytocin mRNA in the paraventricular nucleus. Pretel S, et al. **Peptides** 1990 May-Jun;11(3):621-4

Evolutionary aspects of corticotropin releasing hormones. Lederis KP, et al. **Prog Clin Biol Res** 1990;342:467-72 (23 ref.)

[Structure and regulation of expression of corticotropin-releasing hormone (CRH) gene and processing of CRH-precursor] Tanaka K, et al. **Nippon Rinsho** 1989 Oct;47(10):2146-51 **(Jpn)**

IMMUNOLOGY

Uptake of a monoclonal antibody to corticotropin-releasing factor (CRF) into rat hypothalamic neurons. Burlet AJ, et al. **Brain Res** 1990 May 28;517(1-2):283-93

METABOLISM

Corticotropin-releasing factor is altered in brains of animals with high preference for ethanol. George SR, et al. **Alcohol Clin Exp Res** 1990 Jun;14(3):425-9

Immunoreactive corticotropin-releasing hormone in amniotic fluid. Sasaki A, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):194-8

Intrahypothalamic infusion of interleukin-1 beta increases the release of corticotropin-releasing hormone (CRH 41) and adrenocorticotropic hormone (ACTH) in free-moving rats bearing a push-pull cannula in the median eminence. Barbanel G, et al. **Brain Res** 1990 May 14;516(1):31-6

Neuropeptide Y-induced effects on hypothalamic corticotropin-releasing factor content and release are dependent on noradrenergic/adrenergic neurotransmission. Haas DA, et al. **Brain Res** 1989 Oct 2;498(2):333-8

Chronic electroconvulsive shock treatment elicits up-regulation of CRF and AVP mRNA in select populations of neuroendocrine neurons. Herman JP, et al.

Brain Res 1989 Nov 6;501(2):235–46
Widespread expression of corticotropin-releasing factor messenger RNA and immunoreactivity in the rat olfactory bulb. Imaki T, et al. Brain Res 1989 Sep 4;496(1–2):35–44
Corticotropin-releasing factor immunoreactive neurons persist throughout the brain in Alzheimer's disease. Kelley M, et al. Brain Res 1989 Nov 6;501(2):392–6
Distribution of glucocorticoid receptor-like immunoreactivity in the brain, and its relation to CRF and ACTH immunoreactivity in the hypothalamus of the japanese quail, Coturnix coturnix japonica. Kovács KJ, et al. Brain Res 1989 Dec 29;505(2):239–45
Facilitation of ACTH secretion by morphine is mediated by activation of CRF releasing neurons and sympathetic neuronal pathways. Nikolarakis KE, et al. Brain Res 1989 Oct 2;498(2):385–8
Peptidergic innervation of the locus coeruleus cells in the human brain. Pammer C, et al. Brain Res 1990 May 7;515(1–2):247–55
Neuropeptide-Y stimulates CRF-41 release from rat hypothalami in vitro. Tsagarakis S, et al. Brain Res 1989 Nov 13;502(1):167–70
Postnatal development of corticotropin releasing factor-like immunoreactive amacrine cells in the rat retina. Zhang DR, et al. Brain Res Dev Brain Res 1990 Feb 1;51(2):185–94
Histogenesis of corticotropin releasing factor-like immunoreactive amacrine cells in the rat retina. Zhang DR, et al. Brain Res Dev Brain Res 1990 May 1;53(2):194–9
Effects of adrenalectomy on CRH regulation of ACTH release: adenylate cyclase activity, cyclic AMP-dependent protein kinase activity and ACTH release. Dhillon GS, et al. Cell Signal 1989;1(3):295–301
Catecholaminergic modulation of corticotropin-releasing factor and adrenocorticotropin secretion. Plotsky PM, et al. Endocr Rev 1989 Nov;10(4):437–58 (281 ref.)
Induction of fos-like immunoreactivity in hypothalamic corticotropin-releasing factor neurons after adrenalectomy in the rat. Jacobson L, et al. Endocrinology 1990 Mar;126(3):1709–19
Corticotropin-releasing hormone (CRH)-binding protein: reduction in the adrenocorticotropin-releasing activity of placental but not hypothalamic CRH. Linton EA, et al. J Clin Endocrinol Metab 1990 Jun;70(6):1574–80
Corticotropin-releasing hormone- and adrenocorticotropin-producing pituitary carcinoma with metastases to the liver and lung in a patient with Cushing's disease. Nawata H, et al. J Clin Endocrinol Metab 1990 Oct;71(4):1068–73
Distribution of corticotropin-releasing factor in the cerebellum and precerebellar nuclei of the cat. Cummings SL. J Comp Neurol 1989 Nov 22;289(4):657–75
Cholecystokinin-, galanin-, and corticotropin-releasing factor-like immunoreactive projections from the nucleus of the solitary tract to the parabrachial nucleus in the rat. Herbert H, et al. J Comp Neurol 1990 Mar 22;293(4):581–98
Corticotropin-releasing factor immunoreactivity in monkey neocortex: an immunohistochemical analysis. Lewis DA, et al. J Comp Neurol 1989 Dec 22;290(4):599–613
Heterogeneity of chandelier neurons in monkey neocortex: corticotropin-releasing factor- and parvalbumin-immunoreactive populations. Lewis DA, et al. J Comp Neurol 1990 Mar 22;293(4):599–615
Neuropeptide organization of the hypothalamic projection to the parabrachial nucleus in the rat. Moga MM, et al. J Comp Neurol 1990 May 22;295(4):662–82
Coexistence of corticotropin-releasing factor and enkephalin in the paraventricular nucleus of the rat. Pretel S, et al. J Comp Neurol 1990 Apr 8;294(2):192–201
Steroid, corticotrophin-releasing hormone, ACTH and prostaglandin interactions in the amnion and placenta of early pregnancy in man. Jones SA, et al. J Endocrinol 1990 Apr;125(1):153–9
Restraint-stress-induced changes in exploratory behavior appear to be mediated by norepinephrine-stimulated release of CRF. Berridge CW, et al. J Neurosci 1989 Oct;9(10):3513–21
Glucocorticoids modulate rat hypothalamic corticotrophin-releasing factor release induced by interleukin-1. Cambronero JC, et al. J Neurosci Res 1989 Dec;24(4):470–6
Antidepressant actions on brain noradrenergic neurons. Valentino RJ, et al. J Pharmacol Exp Ther 1990 May;253(2):833–40
Effect of stress-related hormones on macrophage receptors and response to tumor necrosis factor. Bermudez LE, et al. Lymphokine Res 1990 Summer;9(2):137–45
Protein kinase C mediates the effect of vasopressin in pituitary corticotrophs. Carvallo P, et al. Mol Endocrinol 1989 Dec;3(12):1935–43
Glucocorticoid feedback inhibition of adrenocorticotropic hormone secretagogue release. Relationship to corticosteroid receptor occupancy in various limbic sites. Sapolsky RM, et al. Neuroendocrinology 1990 Mar;51(3):328–36
Opiate receptor subtype regulation of CRF-41 release from rat hypothalamus in vitro. Tsagarakis S, et al. Neuroendocrinology 1990 May;51(5):599–605
Stress selectively activates the vasopressin-containing subset of corticotropin-releasing hormone neurons. Whitnall MH. Neuroendocrinology 1989 Dec;50(6):702–7
Effects of nucleus basalis lesions on cerebral cortical concentrations of corticotropin-releasing hormone (CRH)-like immunoreactivity in the rat. Millard WJ, et al. Neurosci Lett 1990 May 31;113(2):233–9
Selective facilitation of putative corticotropin-releasing factor-secreting neurones by interleukin-1. Saphier D, et al. Neurosci Lett 1990 Jul 13;114(3):283–8
Adrenocortical response following acute neurogenic stimuli is mediated by CRF-41. Weidenfeld J, et al. Neurosci Lett 1989 Dec 15;107(1–3):189–94
A system of corticotropin releasing factor-containing amacrine cells in the rat retina. Yeh HH, et al. Neuroscience 1989;33(1):229–40
Osmotic stimulation affects neurohypophysial corticotropin releasing factor-41 content: effect of dexamethasone. Dohanics J, et al. Peptides 1990 Jan-Feb;11(1):51–7
Corticotropin-releasing factor release from in vitro superfused and incubated rat hypothalamus. Effect of potassium, norepinephrine, and dopamine. Joanny P, et al. Peptides 1989 Sep-Oct;10(5):903–11
Ultrastructural immunocytochemistry of the hypothalamic corticotropin releasing hormone synthesizing system. Anatomical basis of neuronal and humoral regulatory mechanisms. Liposits Z. Prog Histochem Cytochem 1990;21(2):1–98
Corticotropin-releasing factor (CRF) and interleukin-1 (IL-1) receptors in the brain-pituitary-immune axis. De Souza EB, et al. Psychopharmacol Bull 1989;25(3):299–305
Coexistence of corticotropin releasing factor and enkephalin in cerebellar afferent systems. Cummings S, et al. Synapse 1990;5(3):167–74
Acute effects of alprazolam and adinazolam on the concentrations of corticotropin-releasing factor in the rat brain. Owens MJ, et al. Synapse 1989;4(3):196–202
Stress-induced changes in corticotropin-releasing factor (CRF) in immune tissues and hypothalamus: studies toward defining a role for CRF in neuroimmunomodulation. Audhya T, et al. Trans Assoc Am Physicians 1988;101:62–9
[Apparent immunoreactivity of CRF in the tentacles of the mollusk Helix pomatia] Cardot J, et al. Gen Comp Endocrinol 1990 Jan;77(1):43–51 (Eng. Abstr.) (Fre)
[Molecular aspects of the hypothalamic hormones—brief review on the regulation and the function of CRH, TRH, GH-RH and LH-RH] Nishikawa T, et al. Nippon Rinsho 1990 May;48(5):1053–60 (17 ref.) (Jpn)

PHARMACOLOGY

Cortisol release in pigs following peripheral and central administration of ovine and human corticotropin-releasing hormone. Parrott RF. Acta Endocrinol (Copenh) 1990 Jul;123(1):108–12
Presynaptic control of striatal tyrosine hydroxylase activity by corticotropin-releasing factor. Olianas MC, et al. Acta Physiol Hung 1990;75 Suppl:227–8
Intrahypothalamic corticotropin-releasing factor elevates gastric bicarbonate and inhibits stress ulcers in rats. Gunion MW, et al. Am J Physiol 1990 Jan;258(1 Pt 1):G152–7
The role of pituitary beta-endorphin in mediating corticotropin-releasing factor-induced antinociception. Hargreaves KM, et al. Am J Physiol 1990 Feb;258(2 Pt 1):E235–42
Central nervous system cardiovascular actions of CRF in sinoaortic-denervated rats. Overton JM, et al. Am J Physiol 1990 Mar;258(3 Pt 2):R596–601
Effects of corticotropin-releasing factor on energy balance in rats are sex dependent. Rivest S, et al. Am J Physiol 1989 Dec;257(6 Pt 2):R1417–22
Pituitary and adrenocortical responses to corticotropin-releasing factor in pigs. Zhang SH, et al. Am J Vet Res 1990 Jul;51(7):1021–5
Corticotropin-releasing factor potentiates the contractile response of rabbit airway smooth muscle to electrical field stimulation but not to acetylcholine. Tamaoki J, et al. Am Rev Respir Dis 1989 Nov;140(5):1331–5
Mechanisms in the control of stress responsiveness. Angelucci L, et al. Ann Ist Super Sanita 1990;26(1):75–8
Corticotropin-releasing factor antagonist attenuates defensive-withdrawal behavior elicited by odors of stressed conspecifics. Takahashi LK, et al. Behav Neurosci 1990 Apr;104(2):386–9
The anorectic effects of CRH and restraint stress decrease with repeated exposures. Krahn DD, et al. Biol Psychiatry 1990 May 15;27(10):1094–102
Interactions of corticotropin-releasing factor with antidepressant and anxiolytic drugs: behavioral studies with pigeons. Zhang L, et al. Biol Psychiatry 1990 May 1;27(9):953–67
Central administration of a CRF antagonist blocks the development of stress-induced behavioral sensitization. Cole BJ, et al. Brain Res 1990 Apr 2;512(2):343–6
Fear-motivated behavior induced by prior shock experience is mediated by corticotropin-releasing hormone systems. Kalin NH, et al. Brain Res 1990 Feb 12;509(1):80–4
Effects of corticotropin-releasing factor (CRF) and opiates on amphibian locomotion. Lowry CA, et al. Brain Res 1990 Apr 9;513(1):94–100
Corticotropin-releasing factor (CRF) increases paradoxical sleep (PS) rebound in PS-deprived rats. Marrosu F, et al. Brain Res 1990 May 7;515(1–2):315–8
Convulsant peptides related to corticotropin-releasing factor (CRF). Nomizu M, et al. Brain Res 1989 Dec 29;505(2):326–8
Corticotropin-releasing factor inhibits the response of trigeminal neurons to noxious heat. Poree LR, et al. Brain Res 1989 Nov 20;502(2):349–55
Coexisting peptides in hypothalamic neuroendocrine systems: some functional implications. Bondy CA, et al. Cell Mol Neurobiol 1989 Dec;9(4):427–46 (86 ref.)
Adrenocortical atrophy of hypophysectomized rats can be reduced by corticotropin-releasing hormone (CRH). Bornstein SR, et al. Cell Tissue Res 1990 Apr;260(1):161–6
Effects of corticotrophin-releasing hormone on corticotrophs in anterior pituitary gland allografts in hypophysectomized, orchidectomized hamsters. Horacek MJ, et al. Cell Tissue Res 1989 Oct;258(1):65–8
Acute dexamethasone suppression of ACTH secretion stimulated by human corticotrophin releasing hormone, AVP and hypoglycaemia [see comments] Hohnloser J, et al. Clin Endocrinol (Oxf) 1989 Aug;31(2):175–84 Comment in: Clin Endocrinol (Oxf) 1990 Feb;32(2):273–4.
The effect of ovine corticotrophin-releasing factor on the hormonal response to insulin-induced hypoglycaemia. Howlett TA, et al. Clin Endocrinol (Oxf) 1989 Feb;30(2):185–90
The pituitary-adrenal response to CRF-41 is unaltered by intravenous somatostatin in normal subjects. Stafford PJ, et al. Clin Endocrinol (Oxf) 1989 Jun;30(6):661–6
Release of ACTH and cortisol in response to CRH and hypoglycemia [letter; comment] Swartz CM. Clin Endocrinol (Oxf) 1990 Feb;32(2):273–4 Comment on: Clin Endocrinol (Oxf) 1989 Aug;31(2):175–84.
Effect of 3 day infusion of ACTH or CRF on the pituitary-adrenal axis. Silberberg S, et al. Clin Exp Pharmacol Physiol 1988 Jan;15(1):15–21
Corticotropin releasing hormone and arginine vasopressin stimulation of ACTH and substance P in human mononuclear leukocytes. Sobel DO. Endocr Res 1990;16(2):283–92
Effect of chronic intracerebroventricular infusion of corticotropin-releasing factor on circadian corticosterone rhythm in the rat. Miyanaga K, et al. Endocrinol Jpn 1990 Feb;37(1):1–7
LHRH increases plasma 7B2 concentration in normal human subjects. Natori S, et al. Endocrinol Jpn 1989 Jun;36(3):367–71
Thyrotropin-releasing factor-induced adrenocorticotropin secretion is mediated by corticotropin-releasing factor. Brown MR, et al. Endocrinology 1989 Nov;125(5):2558–62
Induction of beta-endorphin secretion by lymphocytes after subcutaneous administration of corticotropin-releasing factor [published erratum appears in Endocrinology 1990 May;126(5):2520] Kavelaars A, et al. Endocrinology 1990 Feb;126(2):759–64
Modulation of basal and corticotropin-releasing factor-stimulated proopiomelanocortin gene expression by vasopressin in rat anterior pituitary. Levin N, et al. Endocrinology 1989 Dec;125(6):2957–66
Role of protein kinase-C in the adrenocorticotropin secretory response to arginine vasopressin (AVP) and the synergistic response to AVP and corticotropin-releasing factor by perifused rat anterior pituitary cells. Oki Y, et al. Endocrinology 1990 Jul;127(1):350–7
Effect of cortisol infusion on basal and corticotropin-releasing factor (CRF)-stimulated plasma ACTH concentrations in the sheep fetus after surgical isolation of the pituitary. Ozolins IZ, et al. Endocrinology 1990 Oct;127(4):1833–40
Effect of secretagogues on components of the secretory system in AtT-20 cells. Thiele EA, et al. Endocrinology 1990 Feb;126(2):809–17
Roles of intracellular and extracellular calcium in the kinetic profile of adrenocorticotropin secretion by perifused rat anterior pituitary cells. I. Corticotropin-releasing factor stimulation. Won JG, et al. Endocrinology 1990 Feb;126(2):849–57
Pituitary-adrenal and vagus modulation of sauvagine- and CRF-induced inhibition of gastric emptying in rats. Broccardo M, et al. Eur J Pharmacol 1990 Jul 3;182(2):357–62
Corticotropin releasing factor (CRF) has a peripheral site of action for antinociception. Hargreaves KM, et al. Eur J Pharmacol 1989 Nov 7;170(3):275–9
Stimulation of synaptosomal dopamine synthesis by corticotropin-releasing factor in rat striatum: role of Ca2+-dependent mechanisms. Olianas MC, et al. Eur J Pharmacol 1989 Jul 18;166(2):165–74
Peptides of the corticoliberin superfamily attenuate thermal and neurogenic inflammation in rat pawskin. Wei ET, et al. Eur J Pharmacol 1989 Sep 1;168(1):81–6
Brain peptides and duodenal bicarbonate [letter; comment] Lenz HJ. Gastroenterology 1990 Jun;98(6):1728–30 Comment on: Gastroenterology 1989 Aug;97(2):412–20.
Effect of corticotropin-releasing factor on the electrical and mechanical activities of the guinea-pig ventricular myocardium. Saitoh M, et al. Gen Pharmacol 1990;21(3):337–42
Effects of corticotropin-releasing hormone and adrenocorticotropin on prostaglandin output by human placenta and fetal membranes. Jones SA, et al. Gynecol Obstet Invest 1990;29(3):165–8
A comparison of the thermogenic effects of CRF, sauvagine and urotensin I in the rat. Le Feuvre RA, et al. Horm Metab Res 1989 Sep;21(9):525–6
Cardiovascular responses to exercise in the rat: role of corticotropin-releasing factor. Kregel KC, et al.

J Appl Physiol 1990 Feb;68(2):561–7
The biosynthesis and secretion of adrenocorticotropin by the ovine anterior pituitary is predominantly regulated by arginine vasopressin (AVP). Evidence that protein kinase C mediates the action of AVP. Liu JP, et al. J Biol Chem 1990 Aug 25;265(24):14136–42
A novel mechanism of action of corticotropin releasing factor in rat Leydig cells. Ulisse S, et al. J Biol Chem 1990 Feb 5;265(4):1964–71
Response to corticotropin–releasing hormone during pregnancy in the baboon. Goland RS, et al. J Clin Endocrinol Metab 1990 Apr;70(4):925–9
Inhibition of basal and corticotropin–releasing hormone–stimulated adenylate cyclase activity and cytosolic Ca2+ levels by somatostatin in human corticotropin–secreting pituitary adenomas. Spada A, et al. J Clin Endocrinol Metab 1990 May;70(5):1262–8
In vivo regulation of adrenocorticotrophin secretion in the immature ovine fetus. Modulation by ovine corticotrophin releasing hormone and arginine vasopressin. MacIsaac RJ, et al. J Dev Physiol 1989 Jul;12(1):41–7
Secretion of ACTH by perifused isolated rat anterior pituitary cells: pulses of secretagogue enhance the secretory response and modify the effect of atriopeptin. Antoni FA, et al. J Endocrinol 1990 Jun;125(3):365–73
Activation of pituitary–adrenal function in fetal sheep by corticotrophin–releasing factor and arginine vasopressin. Brooks AN, et al. J Endocrinol 1990 Jan;124(1):27–35
Central administration of corticotrophin–releasing factor in the sheep: effects on secretion of gonadotrophins, prolactin and cortisol. Naylor AM, et al. J Endocrinol 1990 Jan; 124(1):117–25
Corticotropin–releasing factor produces fear–enhancing and behavioral activating effects following infusion into the locus coeruleus. Butler PD, et al. J Neurosci 1990 Jan; 10(1):176–83
Involvement of spinal kappa opioid receptors in the antinociception produced by intrathecally administered corticotropin–releasing factor in mice. Song ZH, et al. J Pharmacol Exp Ther 1990 Aug;254(2):363–8
The effects of corticotrophin–releasing factor and two antagonists on breathing movements in fetal sheep. Bennet L, et al. J Physiol (Lond) 1990 Feb;421:1–11
LH action in the Leydig cell: modulation by angiotensin II and corticotropin releasing hormone, and regulation of P450(17) alpha mRNA. Dufau ML, et al. J Steroid Biochem 1989;34(1–6):205–17 (59 ref.)
Plasma corticosterone and restraint induced gastric pathology: age–related differences after administration of corticotropin releasing factor. Bakke HK, et al. Life Sci 1989;45(10):907–16
Inhibitory effects of neuropeptide Y (NPY) on CRF and stress–induced cecal motor response in rats. Jiménez M, et al. Life Sci 1990;47(3):205–11
Corticotropin–releasing factor and adrenocorticotropin stimulate ciliary motility in rabbit tracheal epithelium. Kobayashi K, et al. Life Sci 1989;45(21):2043–9
Adrenalectomy increases beta–lipotropin secretion over beta–endorphin secretion from anterior pituitary corticotrophs. Young EA. Life Sci 1989;45(23):2233–7
Clinical applications of corticotropin releasing hormone [comment] Daughaday WH. Mayo Clin Proc 1990 Jul; 65(7):1026–8 Comment on: Mayo Clin Proc 1990 Jul;65(7):943–8.
Ovine corticotropin releasing hormone stimulation test: normal value study [see comments] Young WF Jr, et al. Mayo Clin Proc 1990 Jul;65(7):943–8 Comment in: Mayo Clin Proc 1990 Jul;65(7):1026–8.
Corticotropin–releasing factor differentially regulates anterior and intermediate pituitary lobe proopiomelanocortin gene transcription, nuclear precursor RNA and mature mRNA in vivo. Autelitano DJ, et al. Neuroendocrinology 1990 Feb;51(2):123–30
Adrenocorticotropin responses to endogenous and exogenous secretagogues in the sheep: specificity of glucocorticoid action. Canny BJ, et al. Neuroendocrinology 1990 Feb; 51(2):181–9
Human pituitary corticotroph adenomas in vitro: morphologic and functional responses to corticotropin–releasing hormone and cortisol. Horvath SE, et al. Neuroendocrinology 1990 Mar;51(3):241–8
Central corticotropin releasing factor reduces natural cytotoxicity. Time course of action. Irwin M, et al. Neuropsychopharmacology 1989 Dec;2(4):281–4
Potentiation of acoustic startle by corticotropin–releasing factor (CRF) and by fear are both reversed by alpha–helical CRF (9–41). Swerdlow NR, et al. Neuropsychopharmacology 1989 Dec;2(4):285–92
Effect of corticotropin releasing hormone and neuropeptide Y on electrophysiological activity of sympathetic nerves to interscapular brown adipose tissue. Egawa M, et al. Neuroscience 1990;34(3):771–5
Effects of CRF, AVP and opioid peptides on pituitary–adrenal responses in sheep. Brooks AN, et al. Peptides 1989 Nov–Dec;10(6):1291–3
Effects of corticotropin–releasing factor (CRF), tuftsin and dermorphin on behavior of squirrel monkeys maintained by different events. Nader MA, et al. Peptides 1989 Nov–Dec;10(6):1199–204
CRF and restraint–stress decrease exploratory behavior in hypophysectomized mice. Berridge CW, et al. Pharmacol Biochem Behav 1989 Nov;34(3):517–9
Effects of corticotropin releasing factor, desipramine and haloperidol on a DRL schedule of reinforcement. Britton KT, et al. Pharmacol Biochem Behav 1989 Apr;32(4):967–70
Corticotropin–releasing factor acts via a third ventricle site to reduce exploratory behavior in rats. Spadaro F, et al. Pharmacol Biochem Behav 1990 Jun;36(2):305–9
CRH and alpha–helical–CRH modulate behavioral measures of arousal in monkeys. Winslow JT, et al. Pharmacol Biochem Behav 1989 Apr;32(4):919–26
The effects of adrenalectomy, corticotropin releasing factor and vasopressin on the sympathetic firing rate of nerves to interscapular brown adipose tissue in the Zucker rat. Holt SJ, et al. Physiol Behav 1989 Jun;45(6):1123–9
Central administration of corticotropin releasing factor in the pig: effects on operant feeding, drinking and plasma cortisol. Parrott RF. Physiol Behav 1990 Mar;47(3):519–24
Hypothalamo–pituitary–adrenal manipulations and stress ulcerations in rats. Murison R, et al. Psychoneuroendocrinology 1989;14(5):331–8
Influences of peripheral adrenocorticotropin 1–39 (ACTH) and human corticotropin releasing hormone (h–CRH) on human auditory evoked potentials (AEP). Born J, et al. Psychopharmacology (Berl) 1990;101(1):34–8
Central effects of corticotropin releasing factor (CRF): evidence for similar interactions with environmental novelty and with caffeine. Britton DR, et al. Psychopharmacology (Berl) 1990;101(3):366–70
The effects of separate or combined infusions of corticotrophin–releasing factor and vasopressin either intraventricularly or into the amygdala on aggressive and investigative behaviour in the rat. Elkabir DR, et al. Regul Pept 1990 Apr 24;28(2):199–214
Gastrointestinal motor effects of corticotropin–releasing factor in mice. Sheldon RJ, et al. Regul Pept 1990 Apr 24;28(2):137–51
Decreased inflammatory responsiveness of hypophysectomized rats to heat is reversed by a corticotropin–releasing factor (CRF) antagonist. Wei ET, et al. Regul Pept 1990 Mar 5;27(3):317–23
Anterior pituitary functions in patients with uremia tested by stimulation with four combined hypothalamic releasing hormones. Lee YJ, et al. Taiwan I Hsueh Hui Tsa Chih 1989 Nov–Dec;88(11–12):1091–6
[Value of the CRF test in primary and secondary adrenal insufficiency] Tabarin A, et al. Ann Endocrinol (Paris) 1989; 50(6):497–502 (Eng. Abstr.) (Fre)
[Value of the corticoliberine test in the etiologic diagnosis of Cushing's syndrome] Tabarin A, et al. Presse Med 1990 Mar 31;19(12):557–61 (Eng. Abstr.) (Fre)
[CRF–induced hCG liberation of the human placenta at term in an in vitro culture system] von Hertwig I, et al. Gynakol Rundsch 1989;29 Suppl 2:419–22 (Ger)

PHYSIOLOGY

Is corticotropin–releasing factor a mediator of stress responses? Dunn AJ, et al. Ann N Y Acad Sci 1990; 579:183–91 (74 ref.)
Brain sites where bombesin and corticotropin–releasing factor influence gastric secretions. Gunion MW, et al. Ann N Y Acad Sci 1990;597:92–113
Corticotropin–releasing factor. Jennes L. Ann N Y Acad Sci 1990;597:231–8 (41 ref.)
Mediation of gastrointestinal stress responses by corticotropin–releasing factor. Lenz HJ. Ann N Y Acad Sci 1990;597:81–91 (68 ref.)
The role of corticotropin–releasing factor in rat gastric ulcerogenesis. Murison R, et al. Ann N Y Acad Sci 1990; 597:71–80 (62 ref.)
Differential influences of corticotropin–releasing factor on memory retention of aversive learning and appetitive learning in rats. Lee EH, et al. Behav Neural Biol 1989 Nov;52(3):285–94
Central administration of a CRF antagonist blocks the development of stress–induced behavioral sensitization. Cole BJ, et al. Brain Res 1990 Apr 2;512(2):343–6
Fear–motivated behavior induced by prior shock experience is mediated by corticotropin–releasing hormone systems. Kalin NH, et al. Brain Res 1990 Feb 12;509(1):80–4
The corticotrophin releasing hormone test in late pregnancy: lack of adrenocorticotrophin and cortisol response. Schulte HM, et al. Clin Endocrinol (Oxf) 1990 Jul;33(1):99–106
Interactions between tumor necrosis factor–alpha, hypothalamic corticotropin–releasing hormone, and adrenocorticotropin secretion in the rat. Bernardini R, et al. Endocrinology 1990 Jun;126(6):2876–81
Effects of immunoneutralization of corticotropin–releasing hormone on ultradian rhythms of plasma adrenocorticotropin. Carnes M, et al. Endocrinology 1990 Apr;126(4):1904–13
Central corticotropin–releasing factor mediates the suppressive effect of stress on natural killer cytotoxicity. Irwin M, et al. Endocrinology 1990 Jun;126(6):2837–44
Central nervous system action of peptides to influence gastrointestinal motor function. Taché Y, et al. Gastroenterology 1990 Feb;98(2):517–28 (132 ref.)
Thyrotropic activity of the ovine corticotropin–releasing factor in the chick embryo. Meeuwis R, et al. Gen Comp Endocrinol 1989 Dec;76(3):357–63
CRF, urotensin I, and sauvagine stimulate the release of POMC–derived peptides from goldfish neurointermediate lobe cells. Tran TN, et al. Gen Comp Endocrinol 1990 Jun; 78(3):351–60
Placental corticotropin–releasing hormone may be a stimulator of maternal pituitary adrenocorticotropic hormone secretion in humans. Sasaki A, et al. J Clin Invest 1989 Dec;84(6):1997–2001
Presence of corticotropin–releasing factor–stimulated adenylate cyclase activity in rat retina. Ollanas MC, et al. J Neurochem 1990 Jun;54(6):1967–71
Corticotropin–releasing hormone augments natural killer cell activity through a naloxone–sensitive pathway. Carr DJ, et al. J Neuroimmunol 1990 Jun;28(1):53–61
Adrenocorticotropic hormone (ACTH). Suda T. Jpn J Med 1989 Nov–Dec;28(6):789–91
Immunoneutralization of corticotropin–releasing hormone prevents the diurnal surge of ACTH. Carnes M, et al. Life Sci 1989;45(12):1049–56
Effects of pituitary beta–endorphin secretagogues on the concentration of beta–endorphin in rat cerebrospinal fluid: evidence for a role of vasopressin in the regulation of brain beta–endorphin release. Barna I, et al. Neuroendocrinology 1990 Jan;51(1):104–10
Immunoreactive delta sleep–inducing peptide secretion from mouse dissociated, anterior pituitary cells: regulation by corticotropin–releasing factor and arginine vasopressin. Bjartell A, et al. Neuroendocrinology 1989 Nov;50(5):564–9
Evidence for the involvement of corticotropin–releasing factor in the inhibition of gonadotropin release induced by hyperprolactinemia. Kooy A, et al. Neuroendocrinology 1990 Mar;51(3):261–6
Effects of intracerebroventricular administration of growth hormone–releasing factor and corticotropin–releasing factor on somatostatin secretion into rat hypophysial portal blood. Mitsugi N, et al. Neuroendocrinology 1990 Jan; 51(1):93–6
Vagal mediation of corticotropin–releasing–factor–induced increase in insulinemia in lean and genetically obese fa/fa rats. Rohner–Jeanrenaud F, et al. Neuroendocrinology 1990 Jul;52(1):52–6
Corticotropin–releasing factor neurons innervate dopamine neurons in the periventricular hypothalamus of juvenile macaques. Synaptic evidence for a possible companion neurotransmitter. Thind KK, et al. Neuroendocrinology 1989 Sep;50(3):351–8
Studies on the interaction between ICV effects of CRF and CNS noradrenaline depletion. Bakke HK, et al. Physiol Behav 1990 Jun;47(6):1253–60
Corticotropin–releasing hormone: possible role in eating disorders. Krahn DD, et al. Psychiatr Med 1989;7(4):235–45 (49 ref.)
Corticotropin–releasing factor: putative neurotransmitter in the noradrenergic nucleus locus ceruleus. Valentino RJ. Psychopharmacol Bull 1989;25(3):306–11
[The dependence of the corticoliberin–like activity of the hypothalamus on parathormone] Drzhevetskaia IA, et al. Fiziol Zh SSSR 1990 Feb;76(2):259–64 (Eng. Abstr.) (Rus)
[The development of the corticoliberin– and vasopressinergic elements of the rat hypothalamus during postnatal ontogeny] Danilova OA, et al. Zh Evol Biokhim Fiziol 1989 Nov–Dec;25(6):763–8 (Eng. Abstr.) (Rus)

SECRETION

Cocaine stimulates rat hypothalamic corticotropin–releasing hormone secretion in vitro. Calogero AE, et al. Brain Res 1989 Dec 25;505(1):7–11
Acetylcholine stimulates the secretion of corticotropin–releasing factor from primary dissociated cell cultures of the rat telencephalon and diencephalon. Hillhouse E, et al. Brain Res 1990 Jan 1;506(1):9–13
The muscarinic cholinergic agonist arecoline stimulates the rat hypothalamic–pituitary–adrenal axis through a centrally–mediated corticotropin–releasing hormone–dependent mechanism. Calogero AE, et al. Endocrinology 1989 Nov;125(5):2445–53
Glucocorticoids regulate ovine hypophysial portal levels of corticotropin–releasing factor and arginine vasopressin in a stress–specific manner. Canny BJ, et al. Endocrinology 1989 Nov;125(5):2532–9
ACTH response induced by interleukin–1 is mediated by CRF secretion stimulated by hypothalamic PGE. Watanabe T, et al. Experientia 1990 May 15;46(5):481–4
Procaine and lidocaine stimulate corticotropin–releasing hormone secretion by explanted rat hypothalami through a sodium conductance–independent mechanism. Calogero AE, et al. Horm Metab Res 1990 Jan;22(1):25–8
Insulin–induced hypoglycemia stimulates corticotropin–releasing factor and arginine vasopressin secretion into hypophysial portal blood of conscious, unrestrained rams. Caraty A, et al. J Clin Invest 1990 Jun; 85(6):1716–21
Effect of acetylcholine and 5–hydroxytryptamine on the secretion of corticotrophin–releasing factor–41 and arginine vasopressin from the rat hypothalamus in vitro. Hillhouse EW, et al. J Endocrinol 1989 Sep;122(3):713–8
Effect of noradrenaline and gamma–aminobutyric acid on the secretion of corticotrophin–releasing factor–41 and arginine vasopressin from the rat hypothalamus in vitro. Hillhouse EW, et al. J Endocrinol 1989 Sep;122(3):719–23
Atrial natriuretic peptides inhibit the release of corticotrophin–releasing factor–41 from the rat hypothalamus in vitro. Ibanez–Santos J, et al. J Endocrinol 1990 Aug;126(2):223–8
Release of oxytocin but not corticotrophin–releasing

factor-41 into rat hypophysial portal vessel blood can be made opiate dependent. Sheward WJ, et al. **J Endocrinol** 1990 Jan;124(1):141-50

Arachidonic acid metabolites modulate rat hypothalamic corticotropin-releasing hormone secretion in vitro. Bernardini R, et al. **Neuroendocrinology** 1989 Dec; 50(6):708-15

[Cushing's syndrome in CRF-producing mediastinal carcinoid] Gerl H, et al. **Dtsch Med Wochenschr** 1990 Mar 2;115(9):332-6 (Eng. Abstr.) (Ger)

URINE

Corticotrophin-releasing factor-like immunoreactivity in human 24 h urine. Maser-Gluth C, et al. **Clin Endocrinol (Oxf)** 1989 Apr;30(4):405-12

CORTICOTROPIN-RELEASING HORMONE-41 see **CORTICOTROPIN-RELEASING HORMONE**

CORTINARIUS see under **AGARICALES**

CORTI'S ORGAN see **ORGAN OF CORTI**

CORTISOL see **HYDROCORTISONE**

CORTISONE

ADVERSE EFFECTS

Myofibrillar protein catabolism in rat steroid myopathy measured by 3-methylhistidine excretion in the urine. Shoji S. **J Neurol Sci** 1989 Nov;93(2-3):333-40

[The effect of corticosteroids on bones] Kaiser H. **Z Rheumatol** 1989;48 Suppl 1:21-6 (91 ref.) (Ger)

ANALOGS & DERIVATIVES

Acute effects of cortisone acetate on growth hormone response to growth hormone-releasing hormone in normal adult subjects. Giustina A, et al. **Acta Endocrinol (Copenh)** 1990 Feb;122(2):206-10

Effect of cortisone on cells at the bone-marrow interface. Simmons DJ, et al. **Calcif Tissue Int** 1990 May;46(5):327-32

Effects of short-term glucocorticoid deprivation on growth hormone (GH) response to GH-releasing hormone in man. Giustina A, et al. **Horm Metab Res** 1989 Dec;21(12):693-4

Effects of gastrointestinal candidiasis, antibiotics, dietary arabinitol, and cortisone acetate on levels of the Candida metabolite D-arabinitol in rat serum and urine. Wong B, et al. **Infect Immun** 1990 Feb;58(2):283-8

Effects of corticosteroids on postnatal lung and airway growth in the ferret. Ellington B, et al. **J Appl Physiol** 1990 May;68(5):2029-33

Diaphragm atrophy and weakness in cortisone-treated rats. Moore BJ, et al. **J Appl Physiol** 1989 Dec;67(6):2420-6

Combined treatment with cyclosporin A and cortisone acetate minimizes the adverse bone effects of either agent alone. Movsowitz C, et al. **J Orthop Res** 1990 Sep; 8(5):635-41

Inappropriate adrenal androgen secretion with once-a-day corticosteroid therapy for congenital adrenal hyperplasia. Keenan BS, et al. **J Pediatr** 1990 Jan;116(1):133-6

[In situ corticosteroid treatment of hemangioma] Lemarchand-Venencie F, et al. **Ann Dermatol Venereol** 1989;116(11):806-7 (Fre)

[Pharmaceutical availability of cortisone acetate ointment] Umer S, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1985;40:1-9 (Eng. Abstr.) (Pol)

ANALYSIS

Differences between concentrations of salivary cortisol and cortisone and of free cortisol and cortisone in plasma during pregnancy and postpartum. Meulenberg PM, et al. **Clin Chem** 1990 Jan;36(1):70-5

BIOSYNTHESIS

The kidney is the major site of cortisone production in man. Whitworth JA, et al. **Clin Endocrinol (Oxf)** 1989 Sep; 31(3):355-61

BLOOD

The influence of glycyrrhetinic acid on plasma cortisol and cortisone in healthy young volunteers. MacKenzie MA, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1637-43

METABOLISM

Interconversion of cortisol and cortisone in baboon trophoblast and decidua cells in culture. Baggia S, et al. **Endocrinology** 1990 Oct;127(4):1735-41

PHARMACOLOGY

Effect of corticosteroids on diaphragm function and biochemistry in the rabbit. Ferguson GT, et al. **Am Rev Respir Dis** 1990 Jan;141(1):156-63

Effect of malnutrition and hormone treatments on intestinal microvillus membrane glycosylation in suckling rats. Jaswal VM, et al. **Ann Nutr Metab** 1990;34(3):155-62

Effect of exogenous cortisone on amino acid metabolism in rats. Shoji S. **Int J Biochem** 1990;22(1):83-7

The effects of heparin and cortisone on an experimental model of pannus. Chander CL, et al. **Int J Tissue React** 1989;11(3):113-6

The tetrachlorodecaoxygen complex reverses the effect of cortisone on wound healing. Hatz RA, et al. **Plast Reconstr Surg** 1989 Dec;84(6):953-9

[In vitro study of the metabolism of carbohydrates in circulating leukocytes in guinea pigs treated with cortisone] Antonioli JA, et al. **Acta Endocrinol (Copenh)** 1966 Feb; 51(2):193-202 (Eng. Abstr.) (Fre)

THERAPEUTIC USE

Evaluation of cortisone-heparin and cortisone-maltose tetrapalmitate therapies against rodent tumors. I. Biological studies. Benrezzak O, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1883-7

Prophylactic antiangiogenic tumor treatment. Madarnas P, et al. **Anticancer Res** 1989 Jul-Aug;9(4):897-901

Evaluation of cortisone-heparin and cortisone-maltose tetrapalmitate therapies against rodent tumors. II. Pathological studies. Madarnas P, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1889-95

Delirium and neuromuscular symptoms in an elderly man with isolated corticotroph-deficiency syndrome completely reversed with glucocorticoid replacement. Fang VS, et al. **J Clin Endocrinol Metab** 1989 Nov; 69(5):1073-7

TOXICITY

Electron microscopy of the hepatocellular and Kupffer-cell lesions of mouse hepatitis, with particular reference to the effect of cortisone. Ruebner BH, et al. **Am J Pathol** 1967 Aug;51(2):163-89

Histopathologic effect of corticosteroids on respiratory muscles in the rabbit. Ferguson G, et al. **Chest** 1990 Mar; 97(3 Suppl):104S

CORTISONE REDUCTASE see under **20-HYDROXYSTEROID DEHYDROGENASES**

CORTODOXONE see under **17-HYDROXYCORTICOSTEROIDS**

CORYNEBACTERIACEAE see under **CORYNEFORM GROUP**

CORYNEBACTERIUM

Corynephage Cog, a virulent bacteriophage of Corynebacterium glutamicum, and its relationship to phi GA1, an inducible phage particle from Brevibacterium flavum. Sonnen H, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1629-33

[Anatomical study of the fibrosing action of Corynebacterium parvum in malignant pleural effusion] Foresti V, et al. **Minerva Med** 1989 Oct;80(10):1069-72 (Eng. Abstr.) (Ita)

[The role of Ca2+ ions in a phage infection of Corynebacterium glutamicum] Manukian RR, et al. **Biofizika** 1989 Sep-Oct;34(5):830-2 (Eng. Abstr.) (Rus)

[Action of microbe-antagonists on bacilli and corynebacteria of the skin of the breast in nursing women] Reznik SR, et al. **Mikrobiol Zh** 1989 May-Jun;51(3):43-7 (Eng. Abstr.) (Rus)

[The mitogenic activity of the glycopolymers from Clavibacter (Corynebacterium) michiganense and Pseudomonas solanacearum] Varbanets LD, et al. **Mikrobiol Zh** 1989 Nov-Dec;51(6):75-9 (Eng. Abstr.) (Rus)

ANALYSIS

Detection of diphtheria toxin in culture supernates of Corynebacterium diphtheriae and C. ulcerans by immunoassay with monoclonal antibody. Hallas G, et al. **J Med Microbiol** 1990 Aug;32(4):247-53

Comparison of the exotoxins of four strains of Corynebacterium pseudotuberculosis. Sutherland SS, et al. **Res Vet Sci** 1989 Sep;47(2):190-4

CLASSIFICATION

A pyrolysis-mass spectrometry study of Corynebacterium spp. Hindmarch JM, et al. **J Med Microbiol** 1990 Feb; 31(2):137-49

[Corynebacterium group D2: its role in human infectious pathology] Hammami A, et al. **Tunis Med** 1990 May; 68(5):363-6 (Eng. Abstr.) (Fre)

DRUG EFFECTS

In vitro susceptibility of selected veterinary bacterial pathogens to ciprofloxacin, enrofloxacin and norfloxacin. Prescott JF, et al. **Can J Vet Res** 1990 Jan;54(1):195-7

Penicillin tolerance in Arcanobacterium haemolyticum. Nyman M, et al. **J Infect Dis** 1990 Feb;161(2):261-5

[Sensitivity curves of multiply resistant corynebacteria JK and D2] Rauturier M, et al. **Pathol Biol (Paris)** 1990 May; 38(5):420-5 (Eng. Abstr.) (Fre)

[Preliminary studies of the effect of steroid hormones on skin bacteria in vitro] Basta M, et al. **Med Dosw Mikrobiol** 1989; 41(3-4):176-83 (Eng. Abstr.) (Pol)

ENZYMOLOGY

Structural and functional analysis of a bacterial cellulase by proteolysis. Gilkes NR, et al. **J Biol Chem** 1989 Oct 25; 264(30):17802-8

Characterization and partial purification of L-asparaginase from Corynebacterium glutamicum. Mesas JM, et al. **J Gen Microbiol** 1990 Mar;136 (Pt 3):515-9

Characterization of a neuraminidase from Corynebacterium aquaticum responsible for Th polyagglutination. Sondag-Thull D, et al. **Vox Sang** 1989;57(3):193-8

GENETICS

DNA sequence homology between attB-related sites of Corynebacterium diphtheriae, Corynebacterium ulcerans, Corynebacterium glutamicum, and the attP site of gamma-corynephage. Cianciotto N, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1-3):299-301

High efficiency electroporation of intact Corynebacterium glutamicum cells. Liebl W, et al. **FEMS Microbiol Lett** 1989 Dec;53(3):299-303

Cloning and expression of the phospholipase D gene from Corynebacterium pseudotuberculosis in Escherichia coli. Songer JG, et al. **Infect Immun** 1990 Jan;58(1):131-6

Cloning, nucleotide sequence, and expression in Escherichia coli of the phospholipase D gene from Corynebacterium pseudotuberculosis. Hodgson AL, et al. **J Bacteriol** 1990 Mar;172(3):1256-61

Molecular cloning, nucleotide sequence and fine-structural analysis of the Corynebacterium glutamicum fda gene: structural comparison of C. glutamicum fructose-1,6-biphosphate aldolase to class I and class II aldolases. von der Osten CH, et al. **Mol Microbiol** 1989 Nov;3(11):1625-37

Cloning and expression of a pili gene of Corynebacterium renale in Escherichia coli. Abe S, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):11-8

[Cloning and structural analysis of the operon of ribosomal RNA of Corynebacterium glutamicum] Fonshtein MIu, et al. **Dokl Akad Nauk SSSR** 1989;308(6):1476-7 (Rus)

[Development of the vector-host system in Corynebacterium. Cloning and expression of homoserine dehydrogenase and homoserine kinase genes in Corynebacterium cells] Okorokov AL, et al. **Genetika** 1990 Apr;26(4):648-56 (Eng. Abstr.) (Rus)

GROWTH & DEVELOPMENT

Effects of sucralfate and sulglycotide treatment on active gastritis and Helicobacter pylori colonization of the gastric mucosa in non-ulcer dyspepsia patients. Barbara L, et al. **Am J Gastroenterol** 1990 Sep;85(9):1109-13

Growth of Corynebacterium bovis in mammary secretions during physiological transitions of the bovine mammary gland. Oliver SP, et al. **J Dairy Sci** 1990 Feb;73(2):351-6

[The effect of 3',5'-cyclic adenylic acid (cAMP) on the growth of bacteria] Yan RX, et al. **Wei Sheng Wu Hsueh Pao** 1989 Feb;29(1):20-5 (Eng. Abstr.) (Chi)

IMMUNOLOGY

Corynebacterium pseudotuberculosis infection in goats. VIII. The effect of vaccination against experimental infection. Holstad G, et al. **Acta Vet Scand** 1989;30(3):275-83

Corynebacterium pseudotuberculosis infection in goats. IX. The effect of vaccination against natural infection. Holstad G. **Acta Vet Scand** 1989;30(3):285-93

Effect of muramyl dipeptide on immunogenicity of Corynebacterium pseudotuberculosis whole-cell vaccines in mice and lambs. Brogden KA, et al. **Am J Vet Res** 1990 Feb;51(2):200-2

Differential antibody responses to Corynebacterium pseudotuberculosis in sheep with naturally acquired caseous lymphadenitis. Ellis JA, et al. **J Am Vet Med Assoc** 1990 May 15;196(10):1609-13

Intralesional immunotherapy of brain tumors with combined Corynebacterium parvum and recombinant interleukin-2 in mice. Conley FK, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1340-4

Nonspecific stimulation of host defense by Corynebacterium kutscheri. I. Antitumor effect. Kita E, et al. **Nat Immun Cell Growth Regul** 1989;8(6):313-24

Restoration of prostaglandin E2-producing splenic macrophages in 89Sr-treated mice with bone marrow from Corynebacterium parvum primed donors. Shibata Y. **Reg Immunol** 1989 May-Jun;2(3):169-75

ISOLATION & PURIFICATION

Different species of corynebacteria in human investigations in Cairo. Sixl W, et al. **Geogr Med Suppl** 1989;5:117-34 (82 ref.)

Selective medium for isolating Arcanobacterium haemolyticum [letter] Brenwald NP, et al. **J Clin Pathol** 1990 Jul;43(7):610

Corynebacteria: incidence among samples submitted to a clinical laboratory for culture. Marshall RJ, et al. **Med Lab Sci** 1990 Jan;47(1):36-41

Herd fertility and Corynebacterium haemolyticum in bovine semen [letter] Richardson A, et al. **Vet Rec** 1968 Aug 10; 83(6):156-7

[Comparative studies of the detection of Corynebacterium suis infections in swine by indirect immunofluorescence

and culture] Langfeldt N, et al.
Berl Munch Tierarztl Wochenschr 1990 Aug 1;103(8):273–6 (Eng. Abstr.) **(Ger)**

[Group JK (Corynebacterium jeikeium sp. nov.) isolated from Japanese skin flora] Nishijima S, et al.
Nippon Hifuka Gakkai Zasshi 1989 Sep;99(10):1121–3 (Eng. Abstr.) **(Jpn)**

METABOLISM

Membrane alteration is necessary but not sufficient for effective glutamate secretion in Corynebacterium glutamicum. Hoischen C, et al. **J Bacteriol** 1990 Jun; 172(6):3409–16

Separation of homologues of methyl ester and 3–O–acetyl methyl ester derivatives of the corynomycolic acid fraction from Corynebacterium pseudotuberculosis. Ioneda T.
J Chromatogr 1989 Nov 3;481:411–5

Regulation of enzymes of lysine biosynthesis in Corynebacterium glutamicum. Cremer J, et al.
J Gen Microbiol 1988 Dec;134 (Pt 12):3221–9

PATHOGENICITY

Pathogenicity of Acanthamoeba and a Corynebacterium in the rat cornea. Badenoch PR, et al. **Arch Ophthalmol** 1990 Jan;108(1):107–12

Corynebacterium xerosis as a cause of community–acquired endocarditis [letter] Røder BL, et al.
Eur J Clin Microbiol Infect Dis 1990 Mar;9(3):233–4

Corynebacteria as urinary pathogens [letter] Maskell R, et al. **J Infect Dis** 1990 Sep;162(3):781–2

Changes in ovine erythrocyte morphology due to sphingomyelin degradation by Corynebacterium pseudotuberculosis phospholipase D. Brogden KA, et al. **Microb Pathog** 1990 Feb;8(2):157–62

PHYSIOLOGY

Causative agents of bovine pyelonephritis: Corynebacterium renale, C. pilosum and C. cystitidis. Yanagawa R.
Prog Vet Microbiol Immunol 1986;2:158–74 (57 ref.)

CORYNEBACTERIUM ACNES see **PROPIONIBACTERIUM ACNES**

CORYNEBACTERIUM DIPHTHERIAE

see related
DIPHTHERIA TOXIN

CLASSIFICATION

[The use of DNA fingerprint analysis for the differentiation of populations of toxigenic Corynebacterium diphtheriae] Bobkova MR, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Jul;(7):28–30 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

[Corynebacteria of the JK group and their sensitivity to antibacterial drugs] Kocherovets VI, et al.
Antibiot Khimioter 1990 Mar;35(3):47–50 (45 ref.) **(Rus)**

ENZYMOLOGY

[Deoxyribonuclease from Corynebacterium diphtheriae: dynamics of synthesis and properties] Iusupova DV, et al.
Vopr Med Khim 1990 Jan–Feb;36(1):27–31 (Eng. Abstr.) **(Rus)**

GENETICS

Production of diphtheria toxin CRM228 in B. subtilis. Hemilä H, et al. **FEMS Microbiol Lett** 1989 Nov;53(1–2):193–8

Localization of an origin of replication in Corynebacterium diphtheriae broad host range plasmid pNG2 that also functions in Escherichia coli. Serwold–Davis TM, et al.
FEMS Microbiol Lett 1990 Jan 1;54(1–3):119–23

Nucleotide sequence of the erythromycin resistance gene from the Corynebacterium plasmid pNG2. Hodgson AL, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1891

Molecular cloning and DNA sequence analysis of a diphtheria tox iron–dependent regulatory element (dtxR) from Corynebacterium diphtheriae. Boyd J, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(15):5968–72

IMMUNOLOGY

Immunity against diphtheria in adults in Poland. Galazka A, et al. **Epidemiol Infect** 1989 Dec;103(3):587–93

[The relationships between antitoxic titers determined in a group of young people before and after booster ADT by the in vivo neutralization test. Comparative NT–PHAR evaluations] Durbacă S, et al.
Arch Roum Pathol Exp Microbiol 1989 Apr–Jun; 48(2):135–46 (Eng. Abstr.) **(Fre)**

ISOLATION & PURIFICATION

A report of the investigation and control measures instituted after the isolation of toxin–producing Corynebacterium diphtheriae mitis from a child in Leeds. Hatton P.
Community Med 1989 Nov;11(4):316–9

ACP Broadsheet no 125: July 1990. Bacteriological diagnosis of diphtheria. Brooks R, et al. **J Clin Pathol** 1990 Jul; 43(7):576–80

[Isolation of Corynebacterium diphtheriae from sperm fluid] Machado TL, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun; 84(2):241–3 (Eng. Abstr.) **(Por)**

[A comparative study of nutrient media for isolating Corynebacterium diphtheriae] Shepilova RG, et al.
Lab Delo 1989;(8):62–4 (Eng. Abstr.) **(Rus)**

METABOLISM

[Detection of toxin and evaluation of the degree of toxin–formation of Corynebacterium diphtheriae using immunoenzyme analysis] Mazurova IK, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Jun;(6):66–70 (Eng. Abstr.) **(Rus)**

CORYNEBACTERIUM DIPHTHERIAE TOXIN see **DIPHTHERIA TOXIN**

CORYNEBACTERIUM EQUI see **RHODOCOCCUS**

CORYNEBACTERIUM INFECTIONS

Coryneform endophthalmitis. Two case reports.
McManaway JW 3d, et al. **Arch Ophthalmol** 1990 Jul; 108(7):942–4

Mixed haematogenous endophthalmitis caused by Candida albicans and CDC fermentative corynebacterium group A–4. Barker C, et al. **Br J Ophthalmol** 1990 Apr;74(4):247–8

Corynebacterium jeikeium (group JK diphtheroids) endocarditis. A report of five cases. Vanbosterhaut B, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3):265–8

Trichomycosis axillaris [letter; comment] Levit F.
J Am Acad Dermatol 1990 May;22(5 Pt 1):858–9 Comment on: J Am Acad Dermatol 1989 Aug;21(2 Pt 1):325–6.

[Corynebacterium group D2: its role in human infectious pathology] Hammami A, et al. **Tunis Med** 1990 May; 68(5):363–6 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Septicaemia in a granulocytopenic patient caused by Corynebacterium striatum. Dall L, et al.
Postgrad Med J 1989 Apr;65(762):247–8

[Endocarditis due to Corynebacterium xerosis] Gómez MA, et al. **Medicina (B Aires)** 1989;49(1):62–4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

The Auckland skin clinic tinea pedis and erythrasma study. Allen S, et al. **N Z Med J** 1990 Aug 22;103(896):391–3

DRUG THERAPY

Effects of sucralfate and sulglycotide treatment on active gastritis and Helicobacter pylori colonization of the gastric mucosa in non–ulcer dyspepsia patients. Barbara L, et al.
Am J Gastroenterol 1990 Sep;85(9):1109–13

Increasing incidence of Corynebacterium group D2 strains resistant to norfloxacin and ciprofloxacin [letter] Soriano F, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec; 8(12):1117–8

Penicillin tolerance in Arcanobacterium haemolyticum. Nyman M, et al. **J Infect Dis** 1990 Feb;161(2):261–5

EPIDEMIOLOGY

Infections due to Corynebacterium group D2. Report of a case. Ronci–Koenig TJ, et al. **Arch Intern Med** 1990 Sep; 150(9):1965–6

ETIOLOGY

Corynebacterium xerosis as a cause of community–acquired endocarditis [letter] Røder BL, et al.
Eur J Clin Microbiol Infect Dis 1990 Mar;9(3):233–4

Corynebacterium xerosis as a cause of vertebral osteomyelitis. Krish G, et al. **J Clin Microbiol** 1989 Dec;27(12):2869–70

Endocapsular hypopyon: a clinical sign of localized endophthalmitis. Stefansson E, et al. **Ophthalmic Surg** 1990 Mar;21(3):221–2

[Lung pseudotumor caused by Corynebacterium equi in an AIDS patient (letter)] Deglise–Favre A, et al.
Presse Med 1990 May 19;19(20):966 **(Fre)**

IMMUNOLOGY

Recruitment of 99m–technetium– or 111–indium–labelled polymorphonuclear leucocytes in experimentally induced pyogranulomas in lambs. Guilloteau L, et al.
J Leukoc Biol 1990 Oct;48(4):343–52

MICROBIOLOGY

Different species of corynebacteria in human investigations in Cairo. Sixl W, et al. **Geogr Med Suppl** 1989;5:117–34 (82 ref.)

Native valve endocarditis caused by an organism resembling Corynebacterium striatum. Markowitz SM, et al.
J Clin Microbiol 1990 Jan;28(1):8–10

Corynebacteria as urinary pathogens [letter] Maskell R, et al. **J Infect Dis** 1990 Sep;162(3):781–2

Unusual pathogens in narcotic–associated endocarditis. Szabo S, et al. **Rev Infect Dis** 1990 May–Jun;12(3):412–5

MORTALITY

Diphtheria with a difference—a rare Corynebacterium fatality with associated apoptotic cell death. Leek MD, et al. **Histopathology** 1990 Feb;16(2):187–9

RADIONUCLIDE IMAGING

Ringlike uptake of [18F]FDG in brain abscess: a PET study. Sasaki M, et al. **J Comput Assist Tomogr** 1990 May–Jun; 14(3):486–7

VETERINARY

Corynebacterium pseudotuberculosis infection in goats. IX. The effect of vaccination against natural infection. Holstad G. **Acta Vet Scand** 1989;30(3):285–93

Corynebacterium pseudotuberculosis infection in goats. VIII. The effect of vaccination against experimental infection. Holstad G, et al. **Acta Vet Scand** 1989;30(3):275–83

Alterations in the phospholipid composition and morphology of ovine erythrocytes after intravenous inoculation of Corynebacterium pseudotuberculosis. Brogden KA, et al.
Am J Vet Res 1990 Jun;51(6):874–7

Observations on bovine pyelonephritis. Markusfeld O, et al.
Br Vet J 1989 Nov–Dec;145(6):573–9

Sheep major histocompatibility (OLA) complex: apparent involvement in a flock endemic infection by Corynebacterium pseudotuberculosis. Millot P.
Exp Clin Immunogenet 1989;6(3):225–35

Differential antibody responses to Corynebacterium pseudotuberculosis in sheep with naturally acquired caseous lymphadenitis. Ellis JA, et al.
J Am Vet Med Assoc 1990 May 15;196(10):1609–13

Hypertrophic osteopathy in a dog with a chronic lung abscess. Hesselink JW, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):760–2

What is your diagnosis? Mineralized retropharyngeal mass (3 x 5 cm) compressing the pharynx ventrally. Jones SL, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):395–6

Seroepidemiological survey of Corynebacterium pseudotuberculosis infection in sheep in Japan using enzyme–linked immunosorbent assay and immunodiffusion. Chikamatsu S, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):887–91

Causative agents of bovine pyelonephritis: Corynebacterium renale, C. pilosum and C. cystitidis. Yanagawa R.
Prog Vet Microbiol Immunol 1986;2:158–74 (57 ref.)

Corynebacterium pseudotuberculosis infection in camels (Camelus dromedarius) in Saudi Arabia. Radwan AI, et al. **Trop Anim Health Prod** 1989 Nov;21(4):229–30

A case of bovine valvular endocarditis caused by Corynebacterium pseudodiphtheriticum. Cabana EM, et al.
Vet Rec 1990 Jan 13;126(2):41–2

Caseous lymphadenitis outbreak [letter] Meldrum KC.
Vet Rec 1990 Apr 14;126(15):369

Effect of location on severity and prognosis of limb cellulitis in six cows. Nguhiu–Mwangi JA, et al. **Vet Rec** 1989 Aug 12;125(7):151–2

Influence of Corynebacterium bovis on constituents of milk and dynamics of mastitis [letter; comment] Pociecha JZ. **Vet Rec** 1989 Dec 16;125(25):628 Comment on: Vet Rec 1989 Oct 7;125(15):393–6.

[Caseous lymphadenitis in moorland sheep in The Netherlands] Schreuder BE, et al. **Tijdschr Diergeneeskd** 1989 Dec 1;114(23):1189–92 (Eng. Abstr.) **(Dut)**

[Comparative studies of the detection of Corynebacterium suis infections in swine by indirect immunofluorescence and culture] Langfeldt N, et al.
Berl Munch Tierarztl Wochenschr 1990 Aug 1;103(8):273–6 (Eng. Abstr.) **(Ger)**

CORYNEBACTERIUM PARVUM see **PROPIONIBACTERIUM ACNES**

CORYNEBACTERIUM PYOGENES see under **CORYNEBACTERIUM**

CORYNEBACTERIUM VAGINALE see **GARDNERELLA VAGINALIS**

CORYNEFORM GROUP

ANALYSIS

[Polyamines in representative taxa of coryneform and other bacteria] Gvozdiak OP, et al. **Mikrobiol Zh** 1990 Mar–Apr; 52(2):29–34 (Eng. Abstr.) **(Rus)**

[Amino acid composition of peptidoglycans isolated from cells of Coryneform bacteria by various methods] Nogina TM, et al. **Mikrobiol Zh** 1989 May–Jun;51(3):16–9 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Coryneform bacteria in infectious diseases: clinical and laboratory aspects. Coyle MB, et al. **Clin Microbiol Rev** 1990 Jul;3(3):227–46 (252 ref.)

GENETICS

Expression of the Cellulomonas fimi cellulase genes cex and cenA from the divergent tet promoters of transposon Tn10. Din N, et al. **Arch Microbiol** 1990;153(2):129–33

Interspecies electro–transformation in Corynebacteria.

Bonamy C, et al. **FEMS Microbiol Lett** 1990 Jan 1; 54(1–3):263–9
High-frequency conjugal plasmid transfer from gram-negative Escherichia coli to various gram-positive coryneform bacteria. Schäfer A, et al. **J Bacteriol** 1990 Mar;172(3):1663–6

METABOLISM

Interconversion of androst-16-ene steroids by human axillary aerobic coryneform bacteria. Rennie PJ, et al. **Biochem Soc Trans** 1989 Dec;17(6):1027–8
Energy-dependent uptake of 4-chlorobenzoate in the coryneform bacterium NTB-1. Groenewegen PE, et al. **J Bacteriol** 1990 Jan;172(1):419–23

CORYZA, ACUTE see **COMMON COLD**

CORYZA VIRUSES see **RHINOVIRUSES**

COSMETICS

Type of closure prevents microbial contamination of cosmetics during consumer use. Brannan DK, et al. **Appl Environ Microbiol** 1990 May;56(5):1476–9
Labelling cosmetics with their ingredients. de Groot AC. **BMJ** 1990 Jun 23;300(6740):1636–8
Factitious bilateral crystalline keratopathy. Lembach RG, et al. **Cornea** 1990 Jul;9(3):246–8
Risks of infection to dermatologists, cosmetic workers, and the public. Wagner RF Jr. **Int J Dermatol** 1990 May; 29(4):253–7 (65 ref.)
Cosmetics by prescription. Neher JO. **J Fam Pract** 1989 Nov; 29(5):534–6
"Nailpolish sign" in cyanotic heart disease [letter] Mehan VK, et al. **Lancet** 1990 Jul 7;336(8706):62
Elastin powder produced for cosmetic purposes does not affect formation of granulation tissue. Kanta J, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove** 1989;32(4):403–6
KOSMET database. Van Croonenborgh RF. **Semin Dermatol** 1989 Jun;8(2):83–4
[Use of urea in cosmetic preparations] Kokoschka EM, et al. **Hautarzt** 1989;40 Suppl 9:82 (27 ref.) **(Ger)**
[Optimizing the effect of a cosmetic care product on the human skin] Schrader K. **Z Hautkr** 1989 Dec 15; 64(12):1099–102; 1105–7 (Eng. Abstr.) **(Ger)**
[Thermal sulfur compounds and esthetic dermatology] Grossi F. **Clin Ter** 1989 Dec 31;131(6):413–9 (22 ref.) (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Cosmetic allergy from the aminoketone colour basic blue 99 (CI 56059). de Groot AC, et al. **Contact Dermatitis** 1990 Jul;23(1):56–7
Patch test sensitivity to Kathon CG in Prague. Macháčková J, et al. **Contact Dermatitis** 1990 Mar;22(3):189–91
Allergic contact dermatitis due to stick deodorant. Rogers S, et al. **Contact Dermatitis** 1989 Aug;21(2):112–3
Occupational contact dermatitis due to quaternium 15. Tosti A, et al. **Contact Dermatitis** 1990 Jul;23(1):41–2
Allergic contact dermatitis from nickel in eyeshadow [letter; comment] van Ketel WG, et al. **Contact Dermatitis** 1989 Nov;21(5):355 Comment on: Contact Dermatitis 1989 May;20(5):380–1.
Corneal trauma and infection caused by manipulation of the eyelashes after application of mascara [letter] Wilson SE, et al. **Cornea** 1990 Apr;9(2):181–2
Adverse nail reactions and paresthesia from "photobonded acrylate 'sculptured' nails". Fisher AA. **Cutis** 1990 May; 45(5):293–4
Batch variations. Calnan CD. **Dermatol Clin** 1990 Jan; 8(1):23–5
Cosmetics: content and function [letter; comment] Jackson EM. **Int J Dermatol** 1990 Jan–Feb;29(1):72 Comment on: Int J Dermatol 1988 Dec;27(10):665–72.
Riehl's melanosis: pigmented contact dermatitis caused by fragrances. Serrano G, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 2):1057–60
From the Centers for Disease Control. Pseudomonas aeruginosa corneal infection related to mascara applicator trauma—Georgia. **JAMA** 1990 Mar 23–30;263(12):1616
Cyanoacrylate nail glue mistaken for eye drops [letter] DeRespinis PA. **JAMA** 1990 May 2;263(17):2301
Pseudomonas aeruginosa corneal infection related to mascara applicator trauma—Georgia. **MMWR** 1990 Jan 26; 39(3):47–8
Cosmetic ochronosis caused by bleaching creams containing 2% hydroquinone [letter] Weiss RM, et al. **S Afr Med J** 1990 Apr 7;77(7):373
[Comment on the article by Prof. H. Tronnier, "Requests of the dermatologist from cosmetics" (Z Hautkr 1988; 63: 983–5) (letter)] **Z Hautkr** 1990 Jan;65(1):77–8 **(Ger)**
[Compatibility of cosmetics and toiletries] Motitschke L. **Z Hautkr** 1989 Dec 15;64(12):1111–7 (Eng. Abstr.) **(Ger)**
[Cosmetic dermatitis. Its relationship with positive patch test results, clinical features and atopy] Matsukubo Y. **Nippon Ika Daigaku Zasshi** 1990 Jun;57(3):276–84 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Qualitative and quantitative determination of Prevan in cosmetic emulsions by direct analysis via fast atom bombardment/collisional spectroscopy. Benassi CA, et al. **Biomed Environ Mass Spectrom** 1989 Oct;18(10):855–9
Kathon CG and cosmetic products. Rastogi SC. **Contact Dermatitis** 1990 Mar;22(3):155–60
Rapid bacteriological screening of cosmetic raw materials by using bioluminescence. Nielsen P, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct;72(5):708–11
Determination of sunscreen agents in cosmetic products by reversed-phase high-performance liquid chromatography. Ikeda K, et al. **J Chromatogr** 1989 Nov 17;482(1):240–5
[Microbial contamination of raw materials of plant origin: incidence in cosmetic preparations] Dony J, et al. **J Pharm Belg** 1989 Nov–Dec;44(6):411–9 (Eng. Abstr.) **(Fre)**
[Determination of seven ultraviolet absorbent in cosmetics by high speed liquid chromatography] Saito E, et al. **Eisei Shikenjo Hokoku** 1989;(107):99–102 (Eng. Abstr.) **(Jpn)**
[Analysis of formaldehyde in various chemical products for household use and in shampoos and bath liquids] Piekacz H, et al. **Rocz Panstw Zakl Hig** 1989;40(3):235–9 (Eng. Abstr.) **(Pol)**

HISTORY

[Good must drive out evil. On cosmetic treatment agents and earlier times' viewpoint on skin diseases] Weismann K. **Nord Med** 1990;105(6–7):200–1 (Eng. Abstr.) **(Dan)**

PHARMACOKINETICS

[Modern cosmetic agents and evidence of their function] Hoppe U, et al. **Z Hautkr** 1990 Feb;65(2):123–8, 131 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Effects of repeated application of a moisturizer. Serup J, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):457–9
Day–night differences in effects of cosmetic treatments on facial skin. Effects on facial skin appearance. Reinberg A, et al. **Chronobiol Int** 1990;7(1):69–79

POISONING

The (internal) dangers of acrylic fingernails [letter] Kurt TL. **JAMA** 1990 Apr 25;263(16):2181

THERAPEUTIC USE

Nonsurgical aesthetic alteration of the eyelids in pathological conditions. Hurwitz JJ, et al. **Can J Ophthalmol** 1990 Jun; 25(4):197–201

TOXICITY

Sensitization to fragrance materials in Indonesian cosmetics. Roesyanto-Mahadi ID, et al. **Contact Dermatitis** 1990 Apr; 22(4):212–7
Cytotoxicity and mutagenicity of 'Al-Kohl', an eye cosmetic commonly used in Jordan. Alkofahi AS, et al. **J Clin Pharm Ther** 1989 Dec;14(6):443–50

COSMETICS, HAIR see **HAIR PREPARATIONS**

COSMIC RADIATION

Monthly cosmic activity and pregnancy induced hypertension. Stoupel E, et al. **Clin Exp Obstet Gynecol** 1990;17(1):7–12 (26 ref.)
Health physics concerns in commercial aviation. Barish RJ. **Health Phys** 1990 Aug;59(2):199–204
Cosmic-ray neutron albedo dose in low-earth orbits. Wilson JW, et al. **Health Phys** 1989 Oct;57(4):665–8
[Effects of combined physical and chemical radiation protection during simulated hypergravity] Minkova M, et al. **Kosm Biol Aviakosm Med** 1990 Mar–Apr;24(2):60–1 **(Rus)**
[Effect of outer space factors on lettuce seeds (Lactuca sativa) flown on "Kosmos" biosatellites] Nevzgodina LV, et al. **Kosm Biol Aviakosm Med** 1990 Jan–Feb;24(1):25–8 (Eng. Abstr.) **(Rus)**
[Effect of single exposure of the seeds of Lactuca sativa to heavy ions of galactic cosmic radiation at orbital manned space stations "Saliut-6" and "Saliut-7"] Nevzgodina LV, et al. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):66–70 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Galactic cosmic radiation exposure and associated health risks for air carrier crewmembers. Friedberg W, et al. **Aviat Space Environ Med** 1989 Nov;60(11):1104–8
[Problems of prognosis of oncologic risk] Miretskiĭ GI, et al. **Gig Sanit** 1989 Aug;(8):66–7 **(Rus)**
[Biophysical foundations of the effect of cosmic radiation and accelerator radiation] **Probl Kosm Biol** 1989;60:1–255 (326 ref.) (Eng. Abstr.) **(Rus)**

COSMIDS

see related
CLONING, MOLECULAR

Physical and genetic mapping of polymorphic loci in Xq28 (DXS15, DXS52, and DXS134): analysis of a cosmid clone and a yeast artificial chromosome. Feil R, et al. **Am J Hum Genet** 1990 Apr;46(4):720–8
Rapid subchromosomal localization of cosmids by nonradioactive in situ hybridization. Kievits T, et al. **Cytogenet Cell Genet** 1990;53(2–3):134–6
Phage particle-mediated gene transfer of recombinant cosmids to cultured mammalian cells. Ishiura M, et al. **Gene** 1989 Oct 30;82(2):281–9
Simplified cosmid vectors for gene transfer to cultured mammalian cells: isolation of the gene for elongation factor 2 from the mouse. Ishiura M, et al. **Gene** 1989 Dec 28; 85(2):427–33
Constructing chromosome- and region-specific cosmid maps of the human genome. Carrano AV, et al. **Genome** 1989; 31(2):1059–65 (30 ref.)
A 195-kb cosmid walk encompassing the human Xq28 color vision pigment genes. Feil R, et al. **Genomics** 1990 Feb; 6(2):367–73
A cosmid clone map derived from a small region of human chromosome 11. Harrison-Lavoie KJ, et al. **Genomics** 1989 Oct;5(3):501–9
The proximity of DNA sequences in interphase cell nuclei is correlated to genomic distance and permits ordering of cosmids spanning 250 kilobase pairs. Trask B, et al. **Genomics** 1989 Nov;5(4):710–7
Transduction of a plasmid containing the bacteriophage D3 cos site in Pseudomonas aeruginosa. Sharp R, et al. **J Bacteriol** 1990 Jun;172(6):3509–11
Vector-Alu PCR: a rapid step in mapping cosmids and YACs. Breukel C, et al. **Nucleic Acids Res** 1990 May 25; 18(10):3097
Ordering of cosmid clones covering the herpes simplex virus type I (HSV-I) genome: a test case for fingerprinting by hybridisation. Craig AG, et al. **Nucleic Acids Res** 1990 May 11;18(9):2653–60
A further RFLP of the cosmid KK5.33 (D5S85) on chromosome 5q. Krömer A, et al. **Nucleic Acids Res** 1990 May 25;18(10):3112
Two RFLPs detected by a cosmid at locus D16S144. Lerner TJ, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4962
Automated fluorescent sequencing of cosmid DNA. Voss H, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1066
Simultaneous localization of cosmids and chromosome R-banding by fluorescence microscopy: application to regional mapping of human chromosome 11. Cherif D, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6639–43
[The selective isolation of cosmid clones by homologous recombination in Escherichia coli--a cosmid clone containing t complex linkage DNA sequence of mouse was isolated] Chai JH. **J Chuan Hsueh Pao** 1990;17(1):38–45 (Eng. Abstr.) **(Chi)**
[Features of integration of recombinant cosmids, containing Aspergillus terreus DNA, in the Saccharomyces cerevisiae genome] Shubochkina EA, et al. **Genetika** 1989 Aug; 25(8):1373–83 (Eng. Abstr.) **(Rus)**

GENETICS

Use of short oligonucleotides to screen cosmid libraries for clones containing G/C-rich sequences. Melmer G, et al. **DNA Cell Biol** 1990 Jun;9(5):377–85
RecA-independent high-frequency deletion of recombinant cosmid DNA in Escherichia coli. Ishiura M, et al. **J Gen Microbiol** 1990 Jan;136 (Pt 1):69–79
Avian keratin genes. II. Chromosomal arrangement and close linkage of three gene families. Presland RB, et al. **J Mol Biol** 1989 Oct 20;209(4):561–76
High-resolution mapping of human chromosome 11 by in situ hybridization with cosmid clones. Lichter P, et al. **Science** 1990 Jan 5;247(4938):64–9

COST ALLOCATION see under **COSTS AND COST ANALYSIS**

COST BENEFIT ANALYSIS

The cost and benefits of coronary heart disease risk factor reduction. Proceedings of a symposium. Siena, Italy, June 10–11, 1989. **Am Heart J** 1990 Mar;119(3 Pt 2):711–76
Measuring costs and financial benefits in randomized controlled trials. Bulpitt CJ, et al. **Am Heart J** 1990 Mar; 119(3 Pt 2):766–70; discussion 770–1 (15 ref.)
The cost:benefit ratio of acute intervention for myocardial infarction: results of a prospective, matched pair analysis. Chapekis AT, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):878–82
The design of future cost-benefit studies. Maynard A. **Am Heart J** 1990 Mar;119(3 Pt 2):761–5 (17 ref.)
Laboratory evaluation of jaundice in newborns. Frequency, cost, and yield. Newman TB, et al. **Am J Dis Child** 1990 Mar;144(3):364–8
Cost-effectiveness of intrapartum screening and treatment for maternal group B streptococci colonization. Strickland DM, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):4–8
Is it cost-beneficial to screen adolescent males for chlamydia? [comment] Alexander ER. **Am J Public Health** 1990 May; 80(5):531–2 Comment on: Am J Public Health 1990 May;80(5):545–50.
Screening for Chlamydia trachomatis in adolescent males: a cost-based decision analysis [see comments] Randolph AG, et al. **Am J Public Health** 1990 May;80(5):545–50

Comment in: Am J Public Health 1990 May;80(5):531-2.
Cost-effectiveness: asserted, not shown [letter; comment] Davidson SJ. Ann Emerg Med 1990 May;19(5):614-5 Comment on: Ann Emerg Med 1988 Oct;17(10):1042-8.
A clinician's guide to cost-effectiveness analysis. Detsky AS, et al. Ann Intern Med 1990 Jul 15;113(2):147-54 (17 ref.)
A cost-benefit analysis of prenatal diagnosis by amniocentesis in Denmark. Goldstein H, et al. Clin Genet 1990 Apr; 37(4):241-63
Cost-effectiveness of three transdermal nitroglycerin controlled-release systems. Hay JW. Clin Ther 1988; 10(4):450-5
Comparison of total costs of administering calcium polycarbophil and psyllium mucilloid in an institutional setting. Mamtani R, et al. Clin Ther 1990 Jan-Feb; 12(1):22-5
Economic analysis in the evaluation of health promotion. Cribb A, et al. Community Med 1989 Nov;11(4):299-305
Is patch testing cost-effective? Rietschel RL. J Am Acad Dermatol 1989 Oct;21(4 Pt 2):885-7
Benefits and costs of supported employment: an analysis of the Illinois Supported Employment Project. Conley RW, et al. J Appl Behav Anal 1989 Winter;22(4):441-7
Decision analysis: a prescriptive method for decision and cost-effectiveness research. Davis JE. J Fam Pract 1989 Oct;29(4):367-9
Cisplatin-based combination chemotherapy in the treatment of advanced-stage testicular cancer: cost-benefit analysis [see comments] Shibley L, et al. J Natl Cancer Inst 1990 Feb 7;82(3):186-92 Comment in: J Natl Cancer Inst 1990 Apr 18;82(8):714-5.
Issues in cost effectiveness in health care. Warner KE. J Public Health Dent 1989;49(5 Spec No):272-8
Measurement of cost-effectiveness of drug therapy. A symposium. Melbourne, July 17, 1989. Proceedings. Med J Aust 1990 Aug 6;153 Suppl:S1-24
Economic assessments in randomized controlled trials. Bulpitt CJ, et al. Med J Aust 1990 Aug 6;153 Suppl:S16-9
What every doctor should know about economics. Part 2. The benefits of economic appraisal. Hall J, et al. Med J Aust 1990 Jan 15;152(2):80-2
The ethics of "unnecessary testing" [editorial] Irwin AE. Ophthalmic Surg 1989 Oct;20(10):694
Cost-effectiveness of rapid latex agglutination testing and throat culture for streptococcal pharyngitis [see comments] Lieu TA, et al. Pediatrics 1990 Mar;85(3):246-56 Comment in: Pediatrics 1990 Mar;85(3):361-4.
Cost-effectiveness analysis in pediatric practice [comment] Pantell RH, et al. Pediatrics 1990 Mar;85(3):361-4 Comment on: Pediatrics 1990 Mar;85(3):246-56.
[What is cost effectiveness analysis?] Alban A, et al. Ugeskr Laeger 1990 Jan 8;152(2):81-6 (15 ref.) (Eng. Abstr.) (Dan)
[Prenatal diagnosis, ethics and economics (editorial)] Gøtrik JK. Ugeskr Laeger 1989 Oct 30;151(44):2867 (Dan)
[Cost benefit analysis and ethics of prenatal diagnosis] Mooney MA, et al. Ugeskr Laeger 1989 Oct 30; 151(44):2868-71 (18 ref.) (Eng. Abstr.) (Dan)
[A review of the types of economic analyses of the health economy] Pedersen KM, et al. Ugeskr Laeger 1990 Jan 15;152(3):144-8 (Eng. Abstr.) (Dan)
[What is cost benefit analysis?] Pedersen KM, et al. Ugeskr Laeger 1990 Jan 1;152(1):10-6 (17 ref.) (Eng. Abstr.) (Dan)
[Costs and benefits in the follow-up of abdomino-perineal amputation of the rectum for cancer] Saviano MS. Minerva Med 1989 Nov;80(11):1225-31 (Eng. Abstr.) (Ita)

LEGISLATION & JURISPRUDENCE

Regulatory demands for cost-benefit studies. Louis WJ. Am Heart J 1990 Mar;119(3 Pt 2):771-4; discussion 774-5

METHODS

Dealing with discounting. An application to the cost-effectiveness of intracoronary thrombolysis with streptokinase. Martens L, et al. Int J Technol Assess Health Care 1990;6(1):139-45
Principles of cost-effective resource allocation in health care organizations. Weinstein MC. Int J Technol Assess Health Care 1990;6(1):93-103
Methodological considerations in the analysis of cost effectiveness in dentistry. Antczak-Bouckoms AA, et al. J Public Health Dent 1989 Fall;49(4):215-22
The CE plane: a graphic representation of cost-effectiveness. Black WC. Med Decis Making 1990 Jul-Sep;10(3):212-4
What is cost-effectiveness analysis? Evans DB. Med J Aust 1990 Aug 6;153 Suppl:S7-9
A review of cost-effectiveness analyses. Hurley S. Med J Aust 1990 Aug 6;153 Suppl:S20-3
Meta-analysis: its importance in cost-effectiveness studies. Simes J. Med J Aust 1990 Aug 6;153 Suppl:S13-6

COST CONTAINMENT see COST CONTROL

COST CONTROL

The tyranny of technology. Figge DC. Am J Obstet Gynecol 1990 Jun;162(6):1365-9
Is rationing in our future? Beck RS. Conn Med 1989 Nov; 53(11):677
Competitive reform and nonprice competition: implications for the hospital industry. Higgins CW. Health Care Manage Rev 1989 Fall;14(4):57-66 (77 ref.)
Decreasing medical malpractice: toward an organizational systems approach. Ziegenfuss JT Jr, et al. Health Care Manage Rev 1989 Fall;14(4):67-75
The attitudes of physicians toward health care cost-containment policies. Ku L, et al. Health Serv Res 1990 Apr;25(1 Pt 1):25-42
Ethics, cost containment, and the allocation of scarce resources. Priester R, et al. Invest Radiol 1989 Nov; 24(11):918-26
Tension, compression, and shear: directions, stresses, and outcomes of health care cost control. Evans RG. J Health Polit Policy Law 1990 Spring;15(1):101-28
When cost containment interferes with clinical decisions. Wilcox DP, et al. Tex Med 1990 May;86(5):28-31

METHODS

A team approach to reduce antibiotic costs. Karki SD, et al. DICP 1990 Feb;24(2):202-5
Training house officers to be cost conscious. Effects of an educational intervention on charges and length of stay. Manheim LM, et al. Med Care 1990 Jan;28(1):29-42

COST EFFECTIVENESS see COST BENEFIT ANALYSIS

COST SHARING INSURANCE see DEDUCTIBLES AND COINSURANCE

COSTEN'S SYNDROME see TEMPOROMANDIBULAR JOINT SYNDROME

COSTS AND COST ANALYSIS

Characteristics of cost outliers who did not benefit from stroke rehabilitation. Osberg JS, et al. Am J Phys Med Rehabil 1990 Jun;69(3):117-25
Expensive beef: a blessing in disguise? Christakis G, et al. Ann Intern Med 1974 Apr;80(4):547-9
Medical care costs: no easy answer [editorial] Norbeck TB. Conn Med 1989 Sep;53(9):547
Economic aspects of patterns of mental health care: cost variation by setting. Frank RG, et al. Gen Hosp Psychiatry 1990 Jan;12(1):11-8
Effects of the use of AZT on the medical care costs of persons with AIDS in the first 12 months. Scitovsky AA, et al. J Acquir Immune Defic Syndr 1990;3(9):904-12
National drug policy in Bangladesh [letter] Joshi A. J Assoc Physicians India 1990 May;38(5):382
Caries incidence and costs of prevention programs. Garcia AI. J Public Health Dent 1989;49(5 Spec No):259-71
Principles involved in costing. Evans DB. Med J Aust 1990 Aug 6;153 Suppl:S10-2
The escalating health care cost of AIDS: who will pay? Kerley LJ. Nurs Forum 1990;25(1):5-14
Information policy [letter; comment] Lindberg DA. Science 1989 Dec 22;246(4937):1547-8 Comment on: Science 1989 Nov 10;246(4931):733.
The first-year costs of establishing an unrelated bone marrow donor registry. Larson EB, et al. Transfusion 1990 Feb; 30(2):138-41
Health care costs and social commitment [editorial] Mullooly JP. Wis Med J 1989 Aug;88(8):6, 8
[Costs and cost analysis] Danneskiold-Samsø B, et al. Ugeskr Laeger 1990 Jan 29;152(5):298-303 (Eng. Abstr.) (Dan)
[A review of the types of economic analyses of the health economy] Pedersen KM, et al. Ugeskr Laeger 1990 Jan 15;152(3):144-8 (Eng. Abstr.) (Dan)
[Cost evaluation of a side-effect of a drug (letter)] Royer RJ, et al. Presse Med 1990 Jun 30;19(26):1240 (Fre)
[What do the waiting lists cost? A study of patients with backache] Skouen JS, et al. Tidsskr Nor Laegeforen 1989 Nov 10;109(31):3235-8 (Eng. Abstr.) (Nor)

METHODS

Allocating resources. Drummond MF. Int J Technol Assess Health Care 1990;6(1):77-92
Estimating costs in the economic evaluation of medical technologies. Luce BR, et al. Int J Technol Assess Health Care 1990;6(1):57-75
Practice valuation: an analytical approach. Manski RJ, et al. J Am Dent Assoc 1990 Jun;120(6):671-6
A package for cost and critical analysis of picture archiving and communication indicating its true yield (CAPACITY). van Poppel BM, et al. Med Inf (Lond) 1990 Jan-Mar; 15(1):67-75

STATISTICS & NUMERICAL DATA

Direct costs of stroke for a Swedish population. Persson U, et al. Int J Technol Assess Health Care 1990;6(1):125-37
Laboratory costing system based on number and type of test: its association with the Welcan workload measurement system. Tarbit IF. J Clin Pathol 1990 Feb;43(2):92-7
Explaining variability of cost using a severity-of-illness measure for ICU patients. Rapoport J, et al. Med Care 1990 Apr;28(4):338-48

COSYNTROPIN

ADMINISTRATION & DOSAGE

Early treatment with ACTH-(1-24) in a rat model of hemorrhagic shock prolongs survival and extends the time-limit for blood reinfusion to be effective. Guarini S, et al. Crit Care Med 1990 Aug;18(8):862-5
Intralesional injection of tetracosactid in the treatment of localized vitiligo [letter] al-Omari H, et al. Int J Dermatol 1989 Dec;28(10):682

ANALOGS & DERIVATIVES

Adrenocorticotropin binding sites in rat cardiac tissue. Mehrabani PA, et al. Pharmacol Biochem Behav 1990 Jan; 35(1):99-103

ANTAGONISTS & INHIBITORS

Does dexamethasone suppress the ACTH response in preterm babies? [letter; comment] Reynolds GJ, et al. Arch Dis Child 1989 Oct;64(10):1514-5 Comment on: Arch Dis Child 1989 Apr;64(4):612-3.

BLOOD

Congenital adrenal hyperplasia family studies using the short ACTH test. Kreutzmann DJ, et al. Aust Paediatr J 1989 Dec;25(6):340-5

DIAGNOSTIC USE

Adrenocortical sensitivity to low-dose ACTH administration in depressed patients. Krishnan KR, et al. Biol Psychiatry 1990 Apr 15;27(8):930-3
Steroid responses to ACTH in women with polycystic ovaries. Hague WM, et al. Clin Endocrinol (Oxf) 1989 Apr; 30(4):355-65
Altered adrenocortical response to acute stressors or ACTH(1-24) in intensively housed pigs. von Borell E, et al. Domest Anim Endocrinol 1989 Oct;6(4):299-309
Adrenocortical response to adrenocorticotropic hormone in relation to duration of topical therapy and percutaneous absorption of hydrocortisone in children with dermatitis. Turpeinen M. Eur J Pediatr 1989 Aug;148(8):729-31
Acute adrenocorticotropin-(1-24) (ACTH) adrenal stimulation in eumenorrheic women: reproducibility and effect of ACTH dose, subject weight, and sampling time. Azziz R, et al. J Clin Endocrinol Metab 1990 May; 70(5):1273-9
On the origin of the elevated 17-hydroxyprogesterone levels after adrenal stimulation in hyperandrogenism. Azziz R, et al. J Clin Endocrinol Metab 1990 Feb;70(2):431-6
Continuous adrenocorticotropin administration in hypopituitarism produces asynchronous increases of deoxycorticosterone and 11-deoxycortisol relative to other reduced zona fasciculata steroids. Kater CE, et al. J Clin Endocrinol Metab 1990 Aug;71(2):305-10
Hypothalamic-pituitary-adrenal axis interaction with prostaglandins. Thorén M, et al. Prog Neuropsychopharmacol Biol Psychiatry 1990; 14(3):319-26
The adrenal response to trauma, operation and cosyntropin stimulation. Harris MJ, et al. Surg Gynecol Obstet 1990 Jun;170(6):513-6

METABOLISM

Ontogeny of ACTH(1-24) receptors in rat adrenal glands during the perinatal period. Chatelain A, et al. J Endocrinol 1989 Dec;123(3):421-8

PHARMACOLOGY

Distinct mechanisms underlying memory modulation after the first and the second session of two avoidance tasks. Netto CA, et al. Behav Neural Biol 1990 Jan;53(1):29-38
Mechanism of glucocorticoid enhancement of the responsiveness of ovine adrenocortical cells to adrenocorticotropin. Darbeida H, et al. Biochem Biophys Res Commun 1990 Feb 14;166(3):1183-91
Role of calcium in the expression of ACTH-induced stretching, yawning and penile erection. Argiolas A, et al. Brain Res Bull 1990 Jun;24(6):853-6
Excretion of electrolytes, free cortisol and aldosterone-18-oxo-glucuronide in 24-hr urines of the Mongolian gerbil (Meriones unguiculatus): effect of lysine-vasopressin and adrenocorticotrophin administration, and of changes in sodium balance. Fenske M. Comp Biochem Physiol [A] 1990;95(2):259-65
Inhibition of feeding by ACTH-(1-24): behavioral and pharmacological aspects. Vergoni AV, et al. Eur J Pharmacol 1990 Apr 25;179(3):347-55
Premature birth of live lambs induced by pulsatile infusion of ACTH. MacIsaac RJ, et al. J Endocrinol 1990 Jan; 124(1):99-107
Effect of dose and route of administration of ACTH1-24 on plasma cortisol concentrations in ewes. Essawy SA, et al. J Vet Pharmacol Ther 1989 Sep;12(3):302-6
Urinary excretion of free progestins, androgens, and estradiol after injection of (1-24)ACTH in the Mongolian gerbil. Fenske M. Life Sci 1989;45(13):1177-84
Inhibition of pituitary beta-endorphin by ACTH and glucocorticoids. Boscaro M, et al. Neuroendocrinology 1990 May;51(5):561-4

Proconflict effect of ACTH1-24: interaction with benzodiazepines. Corda MG, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):631-4

Effect of ACTH-(1-24) on the volume of circulating blood and on regional blood flow in rats bled to hypovolemic shock. Guarini S, et al. **Resuscitation** 1989 Dec; 18(2-3):133-4

Characteristics of brain, heart ventricle and spleen capsule adrenoceptors in rats bled to hypovolemic shock and treated with ACTH-(1-24). Sandrini M, et al. **Resuscitation** 1989 Dec;18(2-3):135-7

THERAPEUTIC USE

ACTH-(1-24) and hemorrhagic shock: preliminary clinical results. Noera G, et al. **Resuscitation** 1989 Dec; 18(2-3):145-7

Preliminary data on the use of ACTH-(1-24) in human shock conditions. Pinelli G, et al. **Resuscitation** 1989 Dec; 18(2-3):149-50

[Changes in anterior pituitary function during ACTH therapy of patients with infantile spasms] Shimizu A, et al. **No To Hattatsu** 1989 Sep;21(5):445-52 (Eng. Abstr.) **(Jpn)**

COT DEATH see SUDDEN INFANT DEATH

COTININE see under PYRROLIDINONES

COTTON

The role of inflammatory mediators in airway edema and obstruction produced in guinea pigs exposed to inhaled endotoxin or cotton dusts. Gordon T. **Am J Ind Med** 1990; 17(1):107-8

The degree of susceptibility of nectary-inoculated cotton flowers and bolls to subsequent seed infection by Aspergillus flavus is determined at or before anthesis. KlichMA. **Appl Environ Microbiol** 1990 Aug; 56(8):2499-502

Acute health effects of community exposure to cotton defoliants. Scarborough ME, et al. **Arch Environ Health** 1989 Nov-Dec;44(6):355-60

Factors influencing endotoxin concentrations on cotton grown in hot, humid environments: a two year study. DeLucca AJ 2d, et al. **Br J Ind Med** 1989 Dec; 46(12):887-91

Comparison of dislodgable and total residues of three pyrethroids applied to cotton in Arizona. Estesen BJ, et al. **Bull Environ Contam Toxicol** 1990 Feb;44(2):240-5

Cotton fiber intraarterial granuloma after cardiac catheterization [letter] McManigle JE, et al. **Chest** 1989 Nov;96(5):1216

Structural determinants of the platelet agonist activity of cotton bract condensed tannin. Rohrbach MS, et al. **Environ Res** 1990 Aug;52(2):199-209

The effect of cotton bract extract on respiratory glycoconjugate secretion from human airways in vitro. Marom Z, et al. **J Allergy Clin Immunol** 1989 Nov;84(5 Pt 1):710-7

An investigation of occlusive polyester surgical clothing. Whyte W, et al. **J Hosp Infect** 1990 May;15(4):363-74

ADVERSE EFFECTS

Health effects of cotton dust exposures. Rylander R. **Am J Ind Med** 1990;17(1):39-45 (16 ref.)

Modulation of inflammatory cell function by cotton bract tannin: changes in the capacity of alveolar macrophages and neutrophils to produce hydrogen peroxide. Vuk-Pavlović Z, et al. **Am J Respir Cell Mol Biol** 1990 Sep;3(3):235-43

Toxicity of intratracheally instilled cotton dust, cellulose, and endotoxin. Milton DK, et al. **Am Rev Respir Dis** 1990 Jul; 142(1):184-92

Mortality and disability among cotton mill workers. Koskela RS, et al. **Br J Ind Med** 1990 Jun;47(6):384-91

A longitudinal study of pulmonary function in cotton gin workers in the San Joaquin Valley. Larson RK, et al. **Chest** 1989 Oct;96(4):819-23

A study of the prevalence of ventilatory obstruction in textile workers exposed to cotton dust. Rastogi SK, et al. **Environ Res** 1989 Oct;50(1):56-67

"Cotton fever": a benign febrile syndrome in intravenous drug abusers. Harrison DW, et al. **J Emerg Med** 1990 Mar-Apr;8(2):135-9

Acute and chronic changes in pulmonary functions among Indian textile workers. Parikh JR, et al. **J Soc Occup Med** 1990 Summer;40(2):71-4

Mortality of workers in the British cotton industry in 1968-1984. Hodgson JT, et al. **Scand J Work Environ Health** 1990 Apr;16(2):113-20

ANALYSIS

Laundry parameters as factors in lowering methyl parathion residue in cotton/polyester fabrics. Hild DN, et al. **Arch Environ Contam Toxicol** 1989 Nov;18(6):908-14

ENZYMOLOGY

Two temporally synthesized charge subunits interact to form the five isoforms of cottonseed (Gossypium hirsutum) catalase. Ni W, et al. **Biochem J** 1990 Jul 1;269(1):233-8

Characterization of a cDNA encoding cottonseed catalase. Ni W, et al. **Biochim Biophys Acta** 1990 Jun 21; 1049(2):219-22

GENETICS

Nucleotide sequence of the chloroplast rbcL gene from cotton Gossypium hirsutum. Gulov MK, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):185

Nucleotide sequence of cottonseed malate synthase. Turley RB, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3643

Nucleotide sequences of the chloroplast psbA and trnH genes from cotton Gossypium hirsutum. Ulmasov TN, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):186

[Cloning of chloroplast psbA and rbcL-genes from cotton Gossipium hirsutum] Ul'masov TN, et al. **Mol Gen Mikrobiol Virusol** 1989 Aug;(8):17-20 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Effects of diuron and fluometuron metabolites on the growth and fiber quality of cotton (Gossypium hirsutum). Moorman TB, et al. **Bull Environ Contam Toxicol** 1990 Feb;44(2):260-7

MICROBIOLOGY

Survey of the mycoflora and mycotoxins of cotton seeds and cotton seed products in Egypt. Mazen MB, et al. **Mycopathologia** 1990 Jun;110(3):133-8

COTTONSEED see COTTONSEED OIL

COTTONSEED OIL

Effects of dietary cottonseed meal, with and without iron treatment, on laying hens. Panigrahi S, et al. **Br Poult Sci** 1989 Sep;30(3):641-51

Effects of whole cottonseed and live yeast culture on ruminal fermentation and fluid passage rate in steers. Malcolm KJ, et al. **J Anim Sci** 1990 Jul;68(7):1965-70

Cottonseed extract versus pharmamedia for the in vitro mould-yeast conversion of Blastomyces dermatitidis. Chaturvedi S, et al. **J Med Vet Mycol** 1990;28(2):139-45

Use of oyster shell as calcium supplement. Part 2. An assessment of the responses of hepatic and serum enzymes, relative organ weights, and bone mineralization in the broiler chicken fed gossypol-containing cottonseed cake supplemented with oyster shell. Aletor VA, et al. **Nahrung** 1990;34(4):319-24

ADMINISTRATION & DOSAGE

The effect of long-term treatment with crude cotton seed oil on pituitary and testicular function in men. Gui-Yuan Z, et al. **Int J Androl** 1989 Dec;12(6):404-10

ADVERSE EFFECTS

Was the candy really responsible for the anaphylaxis in a cottonseed-sensitive patient? [letter] Malanin G, et al. **J Allergy Clin Immunol** 1990 Aug;86(2):277-8

ANALYSIS

Determination of total gossypol in cottonseed and cottonseed meals by derivative UV spectrophotometry. Botsoglou NA, et al. **J Assoc Off Anal Chem** 1990 May-Jun; 73(3):447-51

Survey of the mycoflora and mycotoxins of cotton seeds and cotton seed products in Egypt. Mazen MB, et al. **Mycopathologia** 1990 Jun;110(3):133-8

METABOLISM

Use of oyster shell as calcium supplement. Part 1. Effect on the utilization of gossypol-containing cotton seed cake by the chicken. Aletor VA, et al. **Nahrung** 1990;34(4):311-8

COTURNIX see under QUAIL

COUGH

see related

EXPECTORANTS

Cough test to assess cardiovascular autonomic reflexes in diabetes. Cardone C, et al. **Diabetes Care** 1990 Jul; 13(7):719-24

Cough urethrocystography: the best radiological evaluation of female stress urinary incontinence? Varpula M, et al. **Eur J Radiol** 1989 Aug;9(3):191-4

Tussive presentation in cervicomedullary junction malformations. Kramer LD, et al. **Spine** 1990 Jun; 15(6):439-41

Physiology and treatment of cough. Fuller RW, et al. **Thorax** 1990 Jun;45(6):425-30 (64 ref.)

CHEMICALLY INDUCED

Tussive effect of fentanyl [letter] Ananthanarayan C. **Anaesthesia** 1990 Jul;45(7):595

Tussive effect of a fentanyl bolus administered through a central venous catheter. Böhrer H, et al. **Anaesthesia** 1990 Jan;45(1):18-21

Coughing and bronchospasm with propofol [letter] Thompson MC, et al. **Anaesthesia** 1990 Aug;45(8):690-1

Angiotensin converting enzyme inhibitors and the allergist. O'Hollaren MT, et al. **Ann Allergy** 1990 Jun;64(6):503-6 (25 ref.)

Chronic cough caused by angiotensin converting enzyme inhibitors. Roth A. **Ann Allergy** 1990 Jan;64(1):47-8

Enalapril-induced cough. Gibson GR. **Arch Intern Med** 1989 Dec;149(12):2701-3

Captopril versus enalapril: cough versus pancreatitis [letter] Pedro-Botet J, et al. **DICP** 1990 Apr;24(4):438-9

Separation of cough and reflex bronchoconstriction by inhaled local anaesthetics. Choudry NB, et al. **Eur Respir J** 1990 May;3(5):579-83

Bronchial hyperreactivity and cough induced by angiotensin-converting enzyme-inhibitor therapy [letter] Hinojosa M, et al. **J Allergy Clin Immunol** 1990 Apr; 85(4):818-9

Effect of sulindac on angiotensin converting enzyme inhibitor-induced cough: randomised placebo-controlled double-blind cross-over study. Gilchrist NL, et al. **J Hum Hypertens** 1989 Dec;3(6):451-5

The incidence of cough during treatment with angiotensin converting enzyme inhibitors. Strocchi E, et al. **J Hypertens Suppl** 1989 Dec;7(6):S308-9

Angiotensin-converting enzyme inhibitors and their influence on inflammation, bronchial reactivity and cough. A research review. Lindgren BR, et al. **Med Toxicol Adverse Drug Exp** 1989 Sep-Oct;4(5):369-80 (172 ref.)

[Cough associated with captopril and enalapril] Katz A, et al. **Harefuah** 1989 Jun 15;116(12):632-4 (Eng. Abstr.) **(Heb)**

[Cough and angiotensin converting enzyme inhibition] Paran E. **Harefuah** 1990 Apr 1;118(7):415-6 (13 ref.) **(Heb)**

[Importance of bronchial hyperreactivity in cough induced by captopril (letter)] Lobos Bejarano JM, et al. **Med Clin (Barc)** 1990 Apr 21;94(15):596-7 **(Spa)**

[Cough secondary to the use of captopril. An adverse effect more and more frequent (letter)] Marcos Sánchez F, et al. **Rev Clin Esp** 1990 Apr;186(7):359-60 **(Spa)**

[Cough is a well-known side effect of ACE inhibitors. The most effective measure is to withdraw treatment] **Lakartidningen** 1990 Jan 10;87(1-2):51 **(Swe)**

COMPLICATIONS

Spontaneous intercostal pulmonary hernia with subsegmental incarceration. Sloth-Nielsen J, et al. **Eur J Cardiothorac Surg** 1989;3(6):562-4

Cough as a risk factor for neonatal intraventricular hemorrhage [letter; comment] Argent AC, et al. **Pediatrics** 1990 Jan;85(1):138 Comment on: Pediatrics 1988 Mar;81(3):399-403.

[Cough syncope as a cause of traffic accident] Haffner HT, et al. **Blutalkohol** 1990 Mar;27(2):110-5 (Eng. Abstr.) **(Ger)**

[A case of tussive syncope syndrome] Esedov EM. **Klin Med (Mosk)** 1989 Sep;67(9):104-6 **(Rus)**

DIAGNOSIS

Chronic cough. The spectrum and frequency of causes, key components of the diagnostic evaluation, and outcome of specific therapy. Irwin RS, et al. **Am Rev Respir Dis** 1990 Mar;141(3):640-7

Acid reflux presenting as a persistent cough [letter] Thomson HG, et al. **Ear Nose Throat J** 1989 Nov;68(11):881-2

[Correct clinical evaluation of cough reflex] Pendenza E, et al. **G Clin Med** 1989 Aug-Sep;70(8-9):509-10 **(Ita)**

[A case of bettolepsy] Godiiaeva ElIu. **Vrach Delo** 1990 Jan; (1):46-8 **(Rus)**

DRUG THERAPY

Chronic non-asthmatic cough is not affected by inhaled beclomethasone dipropionate. A controlled double blind clinical trial. Evald T, et al. **Allergy** 1989 Sep;44(7):510-4

Nonprescription cough and cold remedies [letter] Rathbun FJ. **Can Med Assoc J** 1990 Apr 15;142(8):801

Isolated cough which responds to inhaled salbutamol and beclomethasone dipropionate [letter] Frans A, et al. **Eur Respir J** 1990 Feb;3(2):243

Baclofen therapy for intractable hiccoughs [letter] Bhalotra R. **J Clin Gastroenterol** 1990 Feb;12(1):122

Subsensitivity to the cough-depressant effects of opioid and nonopioid antitussives in morphine-dependent rats: relationship to central serotonin function [published erratum appears in Pharmacol Biochem Behav 1990 May;36(1):215] Kamei J, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):595-8

A child with nocturnal cough. Houston A, et al. **Practitioner** 1990 Feb 8;234(1482):77-80

[Evaluation of the treatment with levodropropizine of respiratory diseases in children] Fiocchi A, et al. **Pediatr Med Chir** 1989 Sep-Oct;11(5):519-22 (Eng. Abstr.) **(Ita)**

[Antitussive effects of Bakumondô-tô and codeine in bronchitic guinea-pigs] Miyata T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Oct; 27(10):1157-62 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Comparison between the prevalence and treatment of wheezing and coughing in Brampton and Mississauga children. Kirshner B, et al. **J Clin Epidemiol** 1990;

43(8):765–71

ETIOLOGY

Methacholine challenge in the evaluation of chronic cough. Corrao WM. **Allergy Proc** 1989 Sep–Oct;10(5):313–5

Chronic cough as the sole presenting manifestation of gastroesophageal reflux. Irwin RS, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1294–300

Causes of prolonged cough in patients referred to a chest clinic. Puolijoki H, et al. **Ann Med** 1989 Dec;21(6):425–7

Chronic respiratory symptoms and occult gastroesophageal reflux. A prospective clinical study and results of surgical therapy. DeMeester TR, et al. **Ann Surg** 1990 Mar; 211(3):337–45

Respiratory symptoms in children of low birth weight. Chan KN, et al. **Arch Dis Child** 1989 Sep;64(9):1294–304

Chronic cough in a hospital population; its relationship to atopy and defects in host defence. Lewis HM, et al. **Arch Dis Child** 1989 Nov;64(11):1593–8

Pertussis in an adult man infected with the human immunodeficiency virus. Doebbeling BN, et al. **J Infect Dis** 1990 Jun;161(6):1296–8

Chronic cough in childhood: approach to diagnosis and treatment. Parks DP, et al. **J Pediatr** 1989 Nov;115(5 Pt 2):856–62 (28 ref.)

Localized tracheomalacia or bronchomalacia in children with intractable cough. Wood RE. **J Pediatr** 1990 Mar; 116(3):404–6

Cough and shortness of breath. Swischuk LE. **Pediatr Emerg Care** 1990 Jun;6(2):145–6

The significance of cough in children. Morris D. **Practitioner** 1989 Feb 8;233(1462):174–7

Giant chondroma of the sternum mimicking a mediastinal mass. Fink G, et al. **Thorax** 1990 Aug;45(8):643–4

[Presentation of a clinical case of persistent cough in a child. Observations made in a private office] Monteleone AM, et al. **Rev Med Suisse Romande** 1989 Sep;109(9):739–40 (Fre)

[Asthma, persistent cough and recurring bronchospasm in children: observations and reflections based on data originating from the office of an allergology consultant] Reinhardt MC, et al. **Rev Med Suisse Romande** 1989 Sep; 109(9):719–25 (Fre)

GENETICS

Hereditary factors, "spontaneous cough" and "smoker's cough". A study on 7,800 twin–pairs with the aid of mailed questionnaires. Cederlöf R, et al. **Arch Environ Health** 1967 Mar;14(3):401–6

PATHOLOGY

Bronchial epithelial inflammation in children with chronic cough after early lower respiratory tract illness. Heino M, et al. **Am Rev Respir Dis** 1990 Feb;141(2):428–32

PHYSIOPATHOLOGY

Spectra of the voluntary first cough sounds. Debreczeni LA, et al. **Acta Physiol Hung** 1990;75(2):117–31

Effect of abruptly increased intrathoracic pressure on coronary blood flow velocity in patients. Kern MJ, et al. **Am Heart J** 1990 Apr;119(4):863–70

Cough in tetraplegic subjects: an active process. Estenne M, et al. **Ann Intern Med** 1990 Jan 1;112(1):22–8

Abnormal cough reflex in canine acrylamide neuropathy. Hersch MI, et al. **Ann Neurol** 1989 Dec;26(6):738–45

Mucus transport in a miniaturized simulated cough machine: effect of constriction and serous layer simulant. Agarwal M, et al. **Biorheology** 1989;26(6):977–88

The role of mucus gel viscosity, spinnability, and adhesive properties in clearance by simulated cough. King M, et al. **Biorheology** 1989;26(4):737–45

The role of mucus sol phase in clearance by simulated cough. Zahm JM, et al. **Biorheology** 1989;26(4):747–52

Cough–cardiopulmonary resuscitation in the cardiac catheterization laboratory: hemodynamics during an episode of prolonged hypotensive ventricular tachycardia. Miller B, et al. **Cathet Cardiovasc Diagn** 1989 Nov; 18(3):168–71

Importance of inspiratory flow rate in the cough response to citric acid inhalation in normal subjects. Barros MJ, et al. **Clin Sci** 1990 May;78(5):521–5

Cardiovascular response to coughing: its value in the assessment of autonomic nervous control. van Lieshout EJ, et al. **Clin Sci** 1989 Sep;77(3):305–10

The effect of angiotensin converting enzyme inhibitors (ACE–I) and selective beta 1–antagonists on bronchial reactivity and the cough reflex in man. Uzubalis RI, et al. **Eur J Clin Pharmacol** 1989;37(5):467–70

Effects of N–methyl–D–aspartate antagonists on the cough reflex. Kamei J, et al. **Eur J Pharmacol** 1989 Sep 13; 168(2):153–8

Rationale of airway clearance. Clarke SW. **Eur Respir J Suppl** 1989 Jul;7:599s–603s (23 ref.)

Lack of cough reflex in aspiration pneumonia [letter] Sekizawa K, et al. **Lancet** 1990 May 19;335(8699):1228–9

Effect of midline laparotomy on the cough reflex in dogs. Farkas GA, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):120–4

Cough threshold after upper abdominal surgery. Dilworth JP, et al. **Thorax** 1990 Mar;45(3):207–9

Sex difference in the inhaled tartaric acid cough threshold in non–atopic healthy subjects. Fujimura M, et al. **Thorax** 1990 Aug;45(8):633–4

Effect of forced expirations on mucus clearance in patients with chronic airflow obstruction: effect of lung recoil pressure. van der Schans CP, et al. **Thorax** 1990 Aug; 45(8):623–7

[Pulmonary complication after resection of lung cancer—difficulty in expectoration and cough dynamics] Koike T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep;37(9):1889–92 (Eng. Abstr.) (Jpn)

[Cough reflex in respiratory disease] Sekizawa K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Jan;28(1):29–34 (Eng. Abstr.) (Jpn)

PREVENTION & CONTROL

Inhaled furosemide inhibits cough induced by low chloride content solutions but not by capsaicin. Ventresca PG, et al. **Am Rev Respir Dis** 1990 Jul;142(1):143–6

Coughing and laryngospasm with the laryngeal mask [letter; comment] Dasey N, et al. **Anaesthesia** 1989 Oct;44(10):865 Comment on: Anaesthesia 1989 Mar;44(3):238–41.

Airway opioid receptors mediate inhibition of cough and reflex bronchoconstriction in guinea pigs. Karlsson JA, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):863–8

Effect of doxapram on postoperative pulmonary complications after upper abdominal surgery in high–risk patients. Jansen JE, et al. **Lancet** 1990 Apr 21; 335(8695):936–8

A new approach to suppress bucking before extubation—lidocaine through modified endotracheal tube. Lin SY, et al. **Ma Tsui Hsueh Tsa Chi** 1990 Mar;28(1):23–30

SURGERY

Treatment of late complications of plombage by simultaneous removal of plomb and decortication. Moran A, et al. **Thorax** 1989 Dec;44(12):1051–2

VETERINARY

Cough associated with canine vaccination? [letter] Ostle GN. **Vet Rec** 1989 Oct 21;125(17):446

COUMAPHOS see under **INSECTICIDES, ORGANOTHIOPHOSPHATE**

COUMARIC ACIDS see under **CINNAMATES**

COUMARINS

Structure of 6–amino–4,4,5,7,8–pentamethyldihydrocoumarin. Katrusiak A. **Acta Crystallogr C** 1989 Feb 15;45 (Pt 2):275–8

3–Hydroxycoumarins: first direct preparation from coumarins using a Cu2(+)–ascorbic acid–O2 system, and their potent bioactivities. Aihara K, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):169–75

Initial studies of a phytoestrogen–deoxyribonucleic acid interaction. Lehner AF, et al. **Mol Endocrinol** 1987 May; 1(5):377–87

Coumarins. Murray RD. **Nat Prod Rep** 1989 Dec; 6(6):591–624 (426 ref.)

ADMINISTRATION & DOSAGE

Phase II study of coumarin and cimetidine in patients with metastatic renal cell carcinoma. Dexeus FH, et al. **J Clin Oncol** 1990 Feb;8(2):325–9

[Prevention of thromboembolism in atrial fibrillation?] Stenzinger W. **Internist (Berlin)** 1989 Aug;30(8):533–4 (Ger)

ADVERSE EFFECTS

Adverse effects of anticoagulants. Amerena J, et al. **Adverse Drug React Acute Poisoning Rev** 1990 Spring; 9(1):1–36 (174 ref.)

Double–blind study on the influence of picumast dihydrochloride on safety–related performance. Herberg KW. **Arzneimittelforschung** 1989 Oct;39(10A):1348–51

Spontaneous massive haemorrhage into acoustic neuroma during anticoagulation therapy. Chee CP, et al. **Br J Neurosurg** 1987;1(4):489–93

The sensitizing capacity of coumarins (III). Hausen BM, et al. **Contact Dermatitis** 1989 Sep;21(3):141–7

The rarity of liver toxicity in patients treated with coumarin (1,2–benzopyrone). Cox D, et al. **Hum Toxicol** 1989 Nov; 8(6):501–6

ANALYSIS

A spectrophotometric method for determination of fluorophore–to–protein ratios in conjugates of the blue fluorophore 7–amino–4–methylcoumarin–3–acetic acid (AMCA) [published erratum appears in J Histochem Cytochem 1990 May;38(5):741] Wessendorf MW, et al. **J Histochem Cytochem** 1990 Jan;38(1):87–94

[Determination of choleretic constituents in Artemisia scoparia Waldst. et Kit. by TLC densitometry] Zhang QW, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):43–7 (Eng. Abstr.) (Chi)

[Photometric method of determination of the amidase activity of proteinases using 4–methylcoumaryl–7–amide substrates] Pozdnev VF, et al. **Bioorg Khim** 1990 May;16(5):590–4 (Eng. Abstr.) (Rus)

BLOOD

Comments on the significance of differences between thrombotest and normotest in the study of coumarin plasma [letter] Girolami A. **Haemostasis** 1989;19(4):241–4

CHEMICAL SYNTHESIS

Chemical synthesis of picumast dihydrochloride. Witte EC. **Arzneimittelforschung** 1989 Oct;39(10A):1309

[Synthesis of 7–(4,7–di–substituted coumarin–3–acetamido)cephalosporins] Fan HJ, et al. **Yao Hsueh Hsueh Pao** 1989;24(3):175–81 (Eng. Abstr.) (Chi)

DIAGNOSTIC USE

Synthesis and characterization of a new fluorescent probe for measuring potassium. Golchini K, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):F438–43

7–amino–4–methylcoumarin–3–acetic acid–conjugated streptavidin permits simultaneous flow cytometry analysis of either three cell surface antigens or one cell surface antigen as a function of RNA and DNA content. Aubry JP, et al. **J Immunol Methods** 1990 Mar 27;128(1):39–49

Detection of cathepsin B– and L–, elastase–, tryptase–, trypsin–, and dipeptidyl peptidase IV–like activities in crevicular fluid from gingivitis and periodontitis patients with peptidyl derivatives of 7–amino–4–trifluoromethyl coumarin. Cox SW, et al. **J Periodont Res** 1989 Nov; 24(6):353–61

ISOLATION & PURIFICATION

Anti–platelet action of GU–7, a 3–arylcoumarin derivative, purified from glycyrrhizae radix. Tawata M, et al. **Planta Med** 1990 Jun;56(3):259–63

Experimental studies on the toxicity of some compounds isolated from Ferula communis in the rat. Tagliapietra S, et al. **Res Commun Chem Pathol Pharmacol** 1989 Nov; 66(2):333–6

[Extraction of effective parts of Alternanthera philoxeroides (Mart.) Griseb. and its antiviral effect] Yang ZQ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):488–90, 511–2 (Eng. Abstr.) (Chi)

[Studies on lactone constituents from Boennighausenia sessilicarpa Lévl] Chen YS. **Yao Hsueh Hsueh Pao** 1989; 24(4):260–3 (Eng. Abstr.) (Chi)

[Studies on the structure of a new isocoumarin glucoside of the root sprouts of Agrimonia pilosa Ledeb] Pei YH, et al. **Yao Hsueh Hsueh Pao** 1989;24(11):837–40 (Eng. Abstr.) (Chi)

METABOLISM

Metabolism of picumast after administration of picumast dihydrochloride and antiallergic activity of the main metabolites. Besenfelder E, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1317–20

Cumene hydroperoxide–dependent oxidation of NNN'N'–tetramethyl–p–phenylenediamine and 7–ethoxycoumarin by cytochrome P–450. Comparison between the haemoproteins from liver and olfactory tissue. Reed CJ, et al. **Biochem J** 1989 Aug 1;261(3):793–800

Site–directed mutageneses of rat liver cytochrome P–450d: catalytic activities toward benzphetamine and 7–ethoxycoumarin. Furuya H, et al. **Biochemistry** 1989 Aug 22;28(17):6848–57

The CYP2A3 gene product catalyzes coumarin 7–hydroxylation in human liver microsomes. Yamano S, et al. **Biochemistry** 1990 Feb 6;29(5):1322–9

7–Beta–D–galactopyranosyloxycoumarin–4–acetic acid and its methyl ester as substrates for the beta–D–galactosidase of Escherichia coli. Baggett N, et al. **Carbohydr Res** 1990 Mar 25;197:295–301

Reduction of conjugation capacity in isolated perfused livers: a method of in vitro toxicity testing. Cha YN. **J Toxicol Sci** 1989 Dec;14 Suppl 3:123–9

PHARMACOKINETICS

Pharmacokinetics of picumast dihydrochloride and its active metabolites M1 and M2 in humans. Neugebauer G, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1336–9

Pharmacokinetics of picumast dihydrochloride in patients with liver cirrhosis. Neugebauer G, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1343–7

Pharmacokinetics of picumast after administration of 14C–picumast dihydrochloride in dogs, rats, rabbits and monkeys. Schaumann W, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1321–7

Study of potential kinetic interactions of picumast dihydrochloride and theophylline in vitro and after oral administration in man. Wittenbrink–Dix AM, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1339–43

Percutaneous absorption of coumarin, griseofulvin and propranolol across human scalp and abdominal skin. Ritschel WA, et al. **Methods Find Exp Clin Pharmacol** 1989 Oct;11(10):643–6

The use of porcine hepatocytes for biotransformation studies of veterinary drugs. Hoogenboom LA, et al. **Xenobiotica** 1989 Nov;19(11):1207–19

PHARMACOLOGY

Mechanisms of induction of enzymes that protect against chemical carcinogenesis. Talalay P. **Adv Enzyme Regul** 1989;28:237–50 (49 ref.)

The coumarin derivative AD6 inhibits the release of arachidonic acid by interfering with phospholipase A2 activity in human platelets stimulated with thrombin. Porcellati S, et al. **Agents Actions** 1990 Mar;29(3–4):364–73

Quinolones and coumarins eliminate chloroplasts from Euglena gracilis. Krajčovič J, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1883–9

Effect of picumast dihydrochloride on antigen–induced early and late airway responses in allergic sheep. Abraham WM. **Arzneimittelforschung** 1989 Oct;39(10A):1328–31

Antiallergic activity of picumast dihydrochloride in several animal species. Roesch A, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1310–6

Inhibition of immunological histamine release from guinea pig lungs and other organs by mepyramine, ketotifen, and picumast in vivo. Sekardi L, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1331–5

Influence of picumast dihydrochloride on the ex vivo histamine release from leucocytes of allergic asthmatic patients. Zimmermann I, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1351–3

Reaction of porcine pancreatic elastase with 7–substituted 3–alkoxy–4–chloroisocoumarins: design of potent inhibitors using the crystal structure of the complex formed with 4–chloro–3–ethoxy–7–guanidinoisocoumarin. Powers JC, et al. **Biochemistry** 1990 Mar 27;29(12):3108–18

Reaction of thrombin and proteinases of the fibrinolytic system with a mechanism–based inhibitor, 3,4–dihydro–3–benzyl–6–chloromethylcoumarin. Mor A, et al. **Biochim Biophys Acta** 1990 Mar 29;1038(1):119–24

Effects of coumarins, haematoporphyrins and acridine orange on the viability and growth of Landshütz ascites tumour cells, in the presence and absence of photoradiation. Prosser E, et al. **Cancer Lett** 1990 Jun 30;52(1):71–7

Phenolic constituents of licorice. II. Structures of licopyranocoumarin, licoarylcoumarin and glisoflavone, and inhibitory effects of licorice phenolics on xanthine oxidase. Hatano T, et al. **Chem Pharm Bull (Tokyo)** 1989 Nov;37(11):3005–9

The effect of scoparone, a coumarin derivative isolated from the Chinese crude drug Artemisiae capillaris flos, on the heart. Yamahara J, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1297–9

Intravenous carbochromen: a potent and effective drug for estimation of coronary dilatory capacity. Opherk D, et al. **Eur Heart J** 1990 Apr;11(4):342–7

3,4–Dichloroisocoumarin, a serine protease inhibitor, inactivates glycogen phosphorylase b. Rusbridge NM, et al. **FEBS Lett** 1990 Jul 30;268(1):133–6

Selective isocoumarin serine protease inhibitors block RNK–16 lymphocyte granule–mediated cytolysis. Hudig D, et al. **Mol Immunol** 1989 Aug;26(8):793–8

The furanocoumarin columbianadin inhibits depolarization induced Ca2+ uptake in rat pituitary GH3 cells. Törnquist K, et al. **Planta Med** 1990 Feb;56(1):127–9

Inhibition of platelet thromboxane formation and phosphoinositides breakdown by osthole from Angelica pubescens. Ko FN, et al. **Thromb Haemost** 1989 Nov 24;62(3):996–9

In vivo determination of the anticoagulant effect of a substituted isocoumarin (ACITIC). Oweida SW, et al. **Thromb Res** 1990 Apr 15;58(2):191–7

[Influence of 6,7–dimethoxycoumarin on toxicity and pharmacodynamics of cyclophosphamide] Wan YD, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):79–85 (Eng. Abstr.) (Chi)

[The hypoglycemic effect of clausenacoumarine] Shen ZF, et al. **Yao Hsueh Hsueh Pao** 1989;24(5):391–2 (Eng. Abstr.) (Chi)

THERAPEUTIC USE

Influence of coumarin treatment on patency and limb salvage after peripheral arterial reconstructive surgery. Arfvidsson B, et al. **Am J Surg** 1990 Jun;159(6):556–60

The effects of 5,6 benzo–[a]–pyrone (coumarin) and DEC on filaritic lymphoedema and elephantiasis in India. Preliminary results. Jamal S, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):287–90

A placebo–controlled comparison of the efficacy and tolerability of picumast dihydrochloride and terfenadine in patients with seasonal allergic rhinitis. Boerner D, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1356–9

Efficacy and tolerability of picumast dihydrochloride in comparison with placebo in asthmatic patients. Boerner D, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1363–7

Acceptability, safety and efficacy of picumast dihydrochloride on long–term use in patients with perennial bronchial asthma. Boerner D, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1372–4

Double–blind multicenter controlled clinical study comparing the efficacy of picumast dihydrochloride versus astemizole and placebo in patients with seasonal allergic rhinitis. Franke W, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1360–3

Double–blind controlled crossover study comparing the protective effect of picumast dihydrochloride versus placebo following nasal allergen challenge. Franke W, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1354–6

A one–year double–blind clinical study of the efficacy and tolerability of picumast dihydrochloride versus ketotifen in patients with bronchial asthma. Slapke J, et al. **Arzneimittelforschung** 1989 Oct;39(10A):1368–72

Studies on the anti–tumor–promoting activity of naturally occurring substances. IV. Pd–II [(+)anomalin, (+)praeruptorin B], a seselin–type coumarin, inhibits the promotion of skin tumor formation by 12–O–tetradecanoylphorbol–13–acetate in 7,12–dimethylbenz[a]anthracene–initiated mice. Nishino H, et al. **Carcinogenesis** 1990 Sep;11(9):1557–61

Can the routine treatment of Graves' orbitopathy be efficiently supplemented by the administration of Venalot? Frank K, et al. **Dev Ophthalmol** 1989;20:127–9

Prevention of early recurrence of high risk malignant melanoma by coumarin. Irish Melanoma Group. Thornes D, et al. **Eur J Surg Oncol** 1989 Oct;15(5):431–5

Treatment of hormone–refractory stage D carcinoma of prostate with coumarin (1,2–benzopyrone) and cimetidine: a pilot study. Marshall ME, et al. **Prostate** 1990;17(2):95–9

Anticoagulation—'sufficient conclusions from insufficient premises'? [editorial] Wessler S. **West J Med** 1989 Oct; 151(4):453–4

[Medical treatment of lymphedema with benzopyrones. Experimental basis and applications] Pecking A. **J Mal Vasc** 1990;15(2):157–8 (Eng. Abstr.) (Fre)

[The action of the sodium salt of galbanic acid in experimental erythrocyte hyperaggregation] Mansurov MM, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):51–3 (Eng. Abstr.) (Rus)

[The effect of galbanic acid on the course of experimental hepatitis] Syrov VN, et al. **Farmakol Toksikol** 1990 Mar–Apr;53(2):41–3 (Eng. Abstr.) (Rus)

TOXICITY

Reproductive abnormalities in female mice exposed neonatally to various doses of coumestrol. Burroughs CD, et al. **J Toxicol Environ Health** 1990 Jun;30(2):105–22

COUMARONES see **BENZOFURANS**

COUMESTROL see under **COUMARINS**

COUNSELING

see related
VOCATIONAL GUIDANCE

Prospective counselling after prenatal diagnosis of fetal malformations: interventions and parental reactions. Langer M, et al. **Acta Obstet Gynecol Scand** 1989;68(4):323–9

State prison clergy counselor role self–perceptions. Peretti PO, et al. **Acta Psychiatr Belg** 1988;88(5–6):400–4

HIV tests and counselling: current issues. Miller D, et al. **AIDS** 1989;3 Suppl 1:S187–93 (29 ref.)

Charleston declaration on AIDS education, counseling and prevention. International Society for AIDS Education, Second International Conference on AIDS Education, August 2–4, 1988, Charleston, South Carolina, USA. **AIDS Educ Prev** 1989 Spring;1(1):79–80

A mobile HIV education, counseling, and testing unit: a pilot initiative. Henrickson M. **AIDS Educ Prev** 1990 Summer; 2(2):137–44

Counseling to prevent motor vehicle injuries. The U.S. Preventive Services Task Force. **Am Fam Physician** 1990 May;41(5):1465–70

Counseling to prevent HIV infection and other sexually transmitted diseases. The U.S. Preventive Services Task Force. **Am Fam Physician** 1990 Apr;41(4):1179–87 (88 ref.)

Career counseling practices in pediatric residency training programs. Greenberg LW, et al. **Am J Dis Child** 1990 Apr; 144(4):497–501

The effect of postpartum lactation counseling on the duration of breast–feeding in low–income women. Grossman LK, et al. **Am J Dis Child** 1990 Apr;144(4):471–4

Abortion counseling and the First Amendment: open questions after Webster. Pine RN. **Am J Law Med** 1989; 15(2–3):189–97

HIV–1 counseling and testing sites, Minnesota: analysis of trends in client characteristics. Danila RN, et al. **Am J Public Health** 1990 Apr;80(4):419–22

After the scandals: new generic counseling. Thompson LR. **Am Pharm** 1990 Jul;NS30(7):31–3

Driving–impaired patients leaving the emergency department. The problem of inadequate instructions. Simel DL, et al. **Ann Intern Med** 1990 Mar 1;112(5):365–70

Menopause counselors needed: informed, empathetic, nonpartisan. Greenwood S. **Ann N Y Acad Sci** 1990; 592:376–8; discussion 390–4

Performance appraisal and career counselling for senior house officers. Ward Platt M, et al. **Arch Dis Child** 1990 Jul;65(7):796–801

Improvement in physicians' counseling of patients with mental health problems. Brody DS, et al. **Arch Intern Med** 1990 May;150(5):993–8

A public health model for cardiovascular risk reduction. Impact of cholesterol screening with brief nonphysician counseling. Gemson DH, et al. **Arch Intern Med** 1990 May; 150(5):985–9

A medical model for infertility counselling. Craig S. **Aust Fam Physician** 1990 Apr;19(4):491–2, 495–6, 499–500

Counselling survivors of torture and refugee trauma. Cunningham M, et al. **Aust Fam Physician** 1990 Apr; 19(4):501–4, 506, 509–10

Counselling the victims of child sexual assault. McMichael A. **Aust Fam Physician** 1990 Apr;19(4):481, 483–6, 489

The reducible risks of sudden infant death syndrome (SIDS). Murrell TG, et al. **Aust Fam Physician** 1990 Apr;19(4):560, 562–4, 566–9

Nightmare on paper only. Murtagh J. **Aust Fam Physician** 1990 Apr;19(4):571, 573

The general practitioner as an effective counsellor. Ramsay A. **Aust Fam Physician** 1990 Apr;19(4):473–9

Integrating family counselling into general practice. van Doorn H. **Aust Fam Physician** 1990 Apr;19(4):467–71

Generalization of tolerance to motion environments. Dobie TG, et al. **Aviat Space Environ Med** 1990 Aug;61(8):707–11

Terminal care in general practice [letter] Gunnell DJ. **BMJ** 1990 May 26;300(6736):1400–1

The effectiveness of two smoking cessation programmes for use in general practice: a randomised clinical trial. Slama K, et al. **BMJ** 1990 Jun 30;300(6741):1707–9

Care of the suddenly bereaved. Yates DW, et al. **BMJ** 1990 Jul 7;301(6742):29–31

Today's students and doctors need career counselling as well as vocation [letter] **Br J Hosp Med** 1989 Dec;42(6):509

Should follow–up be provided after miscarriage? Hamilton SM. **Br J Obstet Gynaecol** 1989 Jun;96(6):743–5

Evaluation of bereavement intervention. Scruby LS, et al. **Can J Public Health** 1989 Nov–Dec;80(6):394–8

Abortion and the DPG ratio [letter] Bart J. **Can Med Assoc J** 1990 Mar 1;142(5):437–8

Counselling by radiologists. Hugh AE. **Clin Radiol** 1990 Apr; 41(4):279–80

Treatment in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Jeffery RW, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):65S–83S

Design, methods, and rationale in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Meinert CL, et al. **Controlled Clin Trials** 1989 Sep; 10(3 Suppl):1S–29S

Psychological guidance of IVF patients. Kentenich H. **Hum Reprod** 1989 Nov;4(8 Suppl):17–22

Counselling the parents and relations of critically ill neonates. Narayanan I. **Indian Pediatr** 1988 Oct;25 Suppl:127–32

Confidentiality on the small campus: a counseling center perspective. Rockett GM. **J Am Coll Health** 1989 Nov; 38(3):148–50

Another response to physician's views on the future of clinical dietetics [letter; comment] Landye ST. **J Am Diet Assoc** 1990 Jun;90(6):790 Comment on: J Am Diet Assoc 1989 Sep;89(9):1230, 1234.

Weight loss maintenance 1 year after individual counseling. Wood ER. **J Am Diet Assoc** 1990 Sep;90(9):1256–60

The veterinarian as counselor. Antelyes J. **J Am Vet Med Assoc** 1989 Sep 15;195(6):732–4

An investigation of the counseling needs of male and female laryngectomees. Salva CT, et al. **J Commun Disord** 1989 Aug;22(4):291–304

Counseling the international traveler. Calder RA, et al. **J Fla Med Assoc** 1989 Apr;76(4):379–85

Adding spirometry, carbon monoxide, and pulmonary symptom results to smoking cessation counseling: a randomized trial. Risser NL, et al. **J Gen Intern Med** 1990 Jan–Feb;5(1):16–22

Nondrug treatment of hypertension: a survey of black physicians in New York State. Paul EA, et al. **J Natl Med Assoc** 1989 Dec;81(12):1233–9

Counseling clients with genital herpes. Chenitz WC, et al. **J Psychosoc Nurs Ment Health Serv** 1989 Sep;27(9):11–7

Can general practitioners counsel? [letter] **J R Coll Gen Pract** 1989 Oct;39(327):435

GPs should not counsel long–term [letter] Cocksedge SH. **J R Coll Gen Pract** 1989 Aug;39(325):347

Can general practitioners counsel? [see comments] Rowland N, et al. **J R Coll Gen Pract** 1989 Mar;39(320):118–20 Comment in: J R Coll Gen Pract 1989 Jul;39(324):304.

Randomized controlled trial of anti–smoking advice by nurses in general practice. Sanders D, et al. **J R Coll Gen Pract** 1989 Jul;39(324):273–6

Can general practitioners counsel? [letter; comment] Shepherd S. **J R Coll Gen Pract** 1989 Jul;39(324):304 Comment on: J R Coll Gen Pract 1989 Mar;39(320):118–20.

Counselling in general practice—does it work? Discussion paper. Corney RH. **J R Soc Med** 1990 Apr;83(4):253–7

HIV blood counseling. Rinaldi RC, et al. **J Tenn Med Assoc** 1989 Dec;82(12):640–1

Counseling about physical activity [letter; comment] **JAMA** 1989 Dec 22–29;262(24):3406–7 Comment on: JAMA 1989 Jun 23–30;261(24):3588–98.

Medical students with personal problems—can departments of general practice help? Dowell AC. **Med Teach** 1989; 11(3–4):309–13

Counseling the cancer patient who wants to try unorthodox or questionable therapies. Cassileth BR, et al. **Oncology (Williston Park)** 1989 Apr;3(4):29–33; discussion 34, 40–1 (26 ref.)

Speak up for children [letter] June PL. **Pediatrics** 1990 Aug; 86(2):328–9

A request for the 'morning–after' pill [see comments] Harrison J, et al. **Practitioner** 1989 Jun 22; 233(1471):899–902 Comment in: Practitioner 1989 Aug 8;233(1473):1050. Comment in: Practitioner 1989 Oct

22;233(1477):1353.
Preconception clinics. Jewell D. **Practitioner** 1990 Apr 8; 234(1486):349–51
Counselling disaster victims [editorial] Kaufman A. **Practitioner** 1989 Nov 8;233(1478):1423
Physician, don't heal thyself: let someone else try! [editorial] Rawnsley K. **Practitioner** 1989 Jun 22;233(1471):891
Physician–initiated smoking cessation program: the National Cancer Institute trials. Glynn TJ, et al. **Prog Clin Biol Res** 1990;339:11–25 (21 ref.)
Relationship between response style on the Strong–Campbell Interest Inventory and Occupational Scales (for men). Broday SF. **Psychol Rep** 1990 Apr;66(2):374
Use of profanity in the counseling interview. Kottke JL, et al. **Psychol Rep** 1989 Oct;65(2):627–34
Counselors' attitudes toward homosexuality: some tentative findings. Rudolph J. **Psychol Rep** 1990 Jun;66(3 Pt 2):1352–4
AMA's guidelines on HIV blood test counseling. Rinaldi RC, et al. **R I Med J** 1990 Jul;73(7):297–9
The need for more patient counselling [see comments] Burton J. **Radiogr Today** 1989 Jun;55(625):28–9 Comment in: Radiogr Today 1989 Jul;55(626):25–6.
Counselling skills [letter] Eddowes L. **Radiogr Today** 1990 Mar;56(634):25
The radiographer as counsellor [letter; comment] Korn M. **Radiogr Today** 1989 Jul;55(626):25–6 Comment on: Radiogr Today 1989 Jun;55(625):28–9.
Prevention of unnecessary pregnancy terminations by counselling women on drug, chemical, and radiation exposure during the first trimester. Koren G, et al. **Teratology** 1990 Jun;41(6):657–61
Psychosocial counselling of patients infected with human immunodeficiency virus (HIV) in Lusaka, Zambia. Peltzer K, et al. **Trop Doct** 1989 Oct;19(4):164–8
The owner of the pet with cancer. Hetts S, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul;20(4):879–96 (30 ref.)
[Diagnosis, counseling and psychotherapy in spontaneous abortion and recurrent spontaneous abortion and habitual abortion] Läpple M. **Z Klin Psychol Psychopathol Psychother** 1989;37(3):277–90 (Eng. Abstr.) (Ger)

ECONOMICS

Counselling the relatives of the long–term adult mentally ill. II. A low–cost supportive model. Kuipers L, et al. **Br J Psychiatry** 1989 Jun;154:775–82
Third–party reimbursement for outpatient diabetes education and counseling. **Diabetes Care** 1990 Jan;13 Suppl 1:36
From the Centers for Disease Control. Publicly funded HIV counseling and testing—United States, 1985–1989. **JAMA** 1990 Apr 11;263(14):1901–2
Publicly funded HIV counseling and testing—United States, 1985–1989. **MMWR** 1990 Mar 9;39(9):137–40

EDUCATION

Counseling patients about HIV [letter; comment] Barron SR. **Can Med Assoc J** 1989 Nov 1;141(9):874 Comment on: Can Med Assoc J 1989 Aug 15;141(4):328–9.
Preparing nutrition counselors: perceptions of dietetic students in a counseling practicum. Greene GW, et al. **J Am Diet Assoc** 1990 Feb;90(2):274–6
Smoking cessation workshops for GPs. Norris A. **Practitioner** 1989 Feb 22;233(1463):258, 260
The Helping Beliefs Inventory as a predictor of volunteer counselor training outcome. Kelly NJ, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):970

LEGISLATION & JURISPRUDENCE

Webster, vagueness and the First Amendment. Bopp J Jr, et al. **Am J Law Med** 1989;15(2–3):217–22
Abortion counseling: to benefit maternal health. Steinberg TN. **Am J Law Med** 1989;15(4):483–517 (203 ref.)

MANPOWER

Consultation between university counseling centers and offices of residence life: an update. Shiff R, et al. **J Am Coll Health** 1990 Mar;38(5):239–40

METHODS

Alcoholism treatment: a ten–year follow–up study. Cross GM, et al. **Alcoholism** 1990 Apr;14(2):169–73
Counseling to prevent household and environmental injuries. U.S. Preventive Services Task Force. **Am Fam Physician** 1990 Jul;42(1):135–42 (74 ref.)
Selected predictors of health promotion counseling by three groups of allied health professionals. Mullen PD, et al. **Am J Prev Med** 1990 May–Jun;6(3):153–60
OTC counseling for the pediatric patient: an opportunity for pharmacist involvement. Nykamp D, et al. **Am Pharm** 1990 May;NS30(5):38–46
Counseling psychology: theory and research on interventions. Gelso CJ, et al. **Annu Rev Psychol** 1990; 41:355–86 (285 ref.)
The art of counselling [editorial] Cohen B. **Br J Hosp Med** 1990 Apr;43(4):251
Counselling the relatives of the long–term adult mentally ill. I. Evaluation of the impact on relatives and patients. MacCarthy B, et al. **Br J Psychiatry** 1989 Jun;154:768–75, 782
Needs and technics for counseling parents of young children. Good preventive pediatrics must include attention to child behavior and parental counseling. Browder JA. **Clin Pediatr (Phila)** 1970 Oct;9(10):599–604
Family conferences: reasons, levels of involvement and perceived usefulness. Meyer DL, et al. **J Fam Pract** 1989 Oct;29(4):401–5
Enabling physicians to be nutrition educators and counsellors. Guthrie HA, et al. **Med J Aust** 1989 Sep 18;151 Suppl:S29–32
Grief counselling from the mortuary. Taylor AJ. **N Z Med J** 1989 Oct 25;102(878):562–3
Counseling women at high risk for breast cancer. Stefanek ME. **Oncology (Williston Park)** 1990 Jan;4(1):27–33; discussion 34, 37–8 (8 ref.)
Counseling as part of primary care. Kees N, et al. **Postgrad Med** 1989 Oct;86(5):328–9
Counselling and GPs [editorial] Courtenay M. **Practitioner** 1989 Aug 8;233(1473):1049
Breast cancer counselling. Tait A. **Practitioner** 1989 Oct 22; 233(1477):1404–5
Effectiveness of individual counseling by professional and peer helpers for family caregivers of the elderly. Toseland RW, et al. **Psychol Aging** 1990 Jun;5(2):256–63
A short–term peer model for treating shyness in college students: a note on an exploratory study. Booth R. **Psychol Rep** 1990 Apr;66(2):417–8
Patient counseling for osteoporosis prevention. Bartlett EE. **Public Health Rep** 1989 Sep–Oct;104 Suppl:84–7
The HDCR—coping with the HDCR: a counsellor's view. Carter A. **Radiogr Today** 1989 Oct;55(629):30–2
Abortion counseling: attention to the whole woman. Londoño ML. **Suppl Int J Gynecol Obstet** 1989;3:169–74
The psychiatrist as moral advisor [comment] Redmon RB. **Theor Med** 1989 Dec;10(4):331–7 Comment on: Theor Med 1989 Dec;10(4):311–30.
[Nature, frequency and variability of health counseling by 7 pediatric physicians] Girardet P, et al. **Arch Fr Pediatr** 1990 Feb;47(2):139–45 (Eng. Abstr.) (Fre)
[Patient education and counseling responsibilities of an organization for handicapped patients in the field of rehabilitation] Falk W. **Rehabilitation (Stuttg)** 1989 Nov; 28(4):194–7 (Eng. Abstr.) (Ger)
[Support and counseling of blind and visually handicapped students] Wieler R. **Ther Umsch** 1990 Apr;47(4):329–33 (Eng. Abstr.) (Ger)
[Austrian AIDS counseling: responsibilities and strategies] Hutterer J. **Wien Klin Wochenschr** 1990 Jan 19;102(2):58–62 (14 ref.) (Eng. Abstr.) (Ger)
[Institutionalized services and counseling resources] Holm–Hadulla R. **Z Psychosom Med Psychoanal** 1990; 36(2):166–9 (6 ref.) (Ger)

STANDARDS

Training physicians about smoking cessation: a controlled trial in private practice. Cummings SR, et al. **J Gen Intern Med** 1989 Nov–Dec;4(6):482–9
Counseling medical patients about cigarette smoking: a comparison of the impact of training on nurse practitioners and physicians. Zahnd EG, et al. **Nurse Pract** 1990 Mar; 15(3):10–3, 17–8

STATISTICS & NUMERICAL DATA

Determinants of health counseling practices in hospitals: the patient's perspective. Pineault R, et al. **Am J Prev Med** 1989 Sep–Oct;5(5):257–65

SUPPLY & DISTRIBUTION

Provision of counselling for radiotherapy patients. Brooks C. **Radiogr Today** 1990 Jan;56(632):20–3

UTILIZATION

[Waiting periods in Bavarian child rearing, adolescent and family counseling centers—results of a 1988 study] Gerlicher K, et al. **Prax Kinderpsychol Kinderpsychiatr** 1990 Feb;39(2):55–60 (Eng. Abstr.) (Ger)

COUNSELING, SEX see **SEX COUNSELING**

COUNTERIMMUNOELECTROPHORESIS see under **IMMUNOELECTROPHORESIS**

COUNTERIRRITANTS see **IRRITANTS**

COUNTERPULSATION

see related
HEART–ASSIST DEVICES

"High–risk" percutaneous transluminal coronary angioplasty with preventive intra–aortic balloon counterpulsation. Voudris V, et al. **Cathet Cardiovasc Diagn** 1990 Mar; 19(3):160–4
Pulmonary artery balloon counterpulsation for right ventricular failure after right ventriculotomy in the swine. Gonzalez–Lavin L, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):153–60
Pulmonary artery counterpulsation to improve right ventricular function after heart transplantation. Harjula AL, et al. **Scand J Thorac Cardiovasc Surg** 1989; 23(3):205–10
[Hemodynamic effects of external counterpulsation in treating acute right ventricular infarction] Ye HY. **Chung Hua I Hsueh Tsa Chih** 1989 Aug;69(8):455–6 (Chi)
[Intra–aortal balloon counterpulsation in acute myocardial infarction, ischemic left ventricle insufficiency and treatment refractory angina pectoris] Scholz KH, et al. **Dtsch Med Wochenschr** 1989 Nov 24;114(47):1821–7 (Eng. Abstr.) (Ger)

ADVERSE EFFECTS

[Arterial injuries caused by the insertion of an intra–aortic counterpulsion balloon] Acar C, et al. **Ann Cardiol Angeiol (Paris)** 1990 Jan;39(1):17–9 (Eng. Abstr.) (Fre)

INSTRUMENTATION

Myocardial oxygen consumption. Comparison between left atrial pulsatile synchronous and asynchronous bypass. Davis PK, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):461–3
Development of a new circulatory assist method with the combined effects of intra–aortic balloon pumping and counter pulsation. First report. Imanishi K, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):715–7
A new implantable burst generator for skeletal muscle powered aortic counterpulsation. Li CM, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):405–7
Muscle powered circulatory assist device for diastolic counterpulsator. Novoa R, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):408–11
New crisscross–shaped port design for universal serial pumps. Sakakibara N, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):713–5
Feasibility of pulmonary artery balloon counterpulsation via the percutaneous route: pathological studies on the heart and lungs. Sweet JM, et al. **Can J Cardiol** 1989 Oct; 5(7):352–6
Experimental and clinical evaluation of a counterpulsation device. Nanas JN, et al. **J Biomater Appl** 1990 Apr; 4(4):362–73
Early experience using a purpose–built pulse train stimulator for cardiac assistance with skeletal muscle. Pattison CW, et al. **J Med Eng Technol** 1990 Jan–Feb;14(1):11–5

METHODS

Dynamic aortomyoplasty to assist left ventricular failure. Chachques JC, et al. **Ann Thorac Surg** 1990 Feb; 49(2):225–30
Implantable rate–responsive counterpulsation assist system. Li CM, et al. **Ann Thorac Surg** 1990 Mar;49(3):356–61; discussion 361–2

COUNTERPULSATION, EXTERNAL see **COUNTERPULSATION**

COUNTERTRANSFERENCE (PSYCHOLOGY)

Countertransference in working with victims of political repression. Comas–Díaz L, et al. **Am J Orthopsychiatry** 1990 Jan;60(1):125–34
Transference and countertransference in clinical intervention with divorcing families. Wallerstein JS. **Am J Orthopsychiatry** 1990 Jul;60(3):337–45
Songs of the countertransference in psychotherapy dyads. Díaz de Chumaceiro CL. **Am J Psychoanal** 1990 Mar; 50(1):75–89
Using countertransference in the hypnosis of trauma victims: a model for turning hazard into healing. Peebles–Kleiger MJ. **Am J Psychother** 1989 Oct;43(4):518–30
Hypochondriasis, acting out and counter–acting out. Granek M. **Br J Med Psychol** 1989 Sep;62 (Pt 3):257–64
Reflections on the role of the supervisor. Springmann RR. **Br J Med Psychol** 1989 Sep;62 (Pt 3):217–28
Countertransference and failure to report child abuse and neglect. Pollak J, et al. **Child Abuse Negl** 1989;13(4):515–22
Countertransference issues in the in–home treatment of child sexual abuse. Reynolds–Mejia P, et al. **Child Welfare** 1990 Jan–Feb;69(1):53–61
Early transferences and transference–like reactions. Werman DS. **Hillside J Clin Psychiatry** 1989;11(1):55–68
The role of fantasies, countertransference, and psychological defenses in patient violence. Dubin WR. **Hosp Community Psychiatry** 1989 Dec;40(12):1280–3 (26 ref.)
Broaching and exploring the question of combined group and individual therapy. Gans JS. **Int J Group Psychother** 1990 Apr;40(2):123–37 (15 ref.)
Countertransference and technique in working with the regressed patient: further remarks. Boyer LB. **Int J Psychoanal** 1989;70 (Pt 4):701–14
The autistic object: its relationship with narcissism in the transference and countertransference of neurotic and borderline patients. Mario Gomberoff J, et al. **Int J Psychoanal** 1990;71 (Pt 2):249–59
Erotized transference reconsidered: expanding the countertransference dimension. Eber M. **Psychoanal Rev** 1990 Spring;77(1):25–39
Case presentation: Jean. Libbey M. **Psychoanal Rev** 1989 Winter;76(4):471–509

The analyst's visual images and the child analyst's trap. Norman J. **Psychoanal Study Child** 1989;44:117–35
[Psychoanalytic attitude as a step in the transference/countertransference relationship] Dantlgraber J. **Psyche (Stuttg)** 1989 Nov;43(11):973–1006 (86 ref.) (Eng. Abstr.) **(Ger)**
[Transference and countertransference at a therapeutic community for young adult psychiatric patients] Brockmann J. **Psychother Psychosom Med Psychol** 1990 Jan;40(1):22–6 (Eng. Abstr.) **(Ger)**

COUPLING FACTOR 1 see **H(+)-TRANSPORTING ATPASE**

COURTSHIP

The development of intimate relationships in late adolescence. Paul EL, et al. **Adolescence** 1990 Summer; 25(98):375–400 (85 ref.)
Verbal coercive sexual behavior among college students. Craig ME, et al. **Arch Sex Behav** 1989 Oct;18(5):421–34
Spectral analysis of courtship songs in behavioral mutants of Drosophila melanogaster [published erratum appears in Behav Genet 1990 Mar;20(2):339] Wheeler DA, et al. **Behav Genet** 1989 Jul;19(4):503–28
Changes in the premarital and marital sexual life of Czechoslovak women born between 1911 and 1970. Raboch J, et al. **J Sex Marital Ther** 1989 Fall;15(3):207–14
Theories and observations on sexual selection and female choice in human beings. Perper T. **Med Anthropol** 1989 Jul;11(4):409–54 (77 ref.)
Psychological abuse among college women in dating relationships. Raymond B, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1283–97
Parental divorce during childhood and use of violence in dating relationships. Billingham RE, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):1003–9
Screening procedure for use with a self-help book to overcome dating anxiety. Grossman KS, et al. **Psychol Rep** 1989 Oct;65(2):385–6

COWPER'S GLANDS see **BULBOURETHRAL GLANDS**

COWPOX see under **POXVIRUS INFECTIONS**

COWPOX VIRUS

GENETICS

Transcription of a poxvirus early gene is regulated both by a short promoter element and by a transcriptional termination signal controlling transcriptional interference. Ink BS, et al. **J Virol** 1989 Nov;63(11):4632–44
Fine structure mapping and phenotypic analysis of five temperature-sensitive mutations in the second largest subunit of vaccinia virus DNA-dependent RNA polymerase. Hooda-Dhingra U, et al. **Virology** 1990 Jan; 174(1):60–9

IMMUNOLOGY

Virus-specific early antigen expressed in the nucleus of cowpox virus-infected cells. Kitamoto N, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):235–40

COXA see **HIP**

COXARTHROSIS see **OSTEOARTHRITIS, HIP**

COXIELLA

ANALYSIS

Identification and cloning of a 27-kDa Coxiella burnetii immunoreactive protein. Hendrix LR, et al. **Ann N Y Acad Sci** 1990;590:534–40

CLASSIFICATION

Use of pulsed field gel electrophoresis to differentiate Coxiella burnetii strains. Heinzen R, et al. **Ann N Y Acad Sci** 1990;590:504–13

DRUG EFFECTS

Susceptibility of Coxiella burnetii to chemical disinfectants. Scott GH, et al. **Ann N Y Acad Sci** 1990;590:291–6
Unexpected antibiotic susceptibility of a chronic isolate of Coxiella burnetii. Yeaman MR, et al. **Ann N Y Acad Sci** 1990;590:297–305

GENETICS

Characterization of the origin of DNA replication of the Coxiella burnetii chromosome. Chen SY, et al. **Ann N Y Acad Sci** 1990;590:491–503
DNA probes for the identification of Coxiella burnetti strains. Frazier ME, et al. **Ann N Y Acad Sci** 1990;590:445–58
Characterization of Coxiella burnetii pyrB. Hoover TA, et al. **Ann N Y Acad Sci** 1990;590:485–90
Localization of DNA in Coxiella burnetii by post-embedding immunoelectron microscopy. McCaul TF, et al. **Ann N Y Acad Sci** 1990;590:136–47
Analysis of QpRS-specific sequences from Coxiella burnetii. Minnick MF, et al. **Ann N Y Acad Sci** 1990;590:514–22
Comparison of Coxiella burnetii plasmids to homologous chromosomal sequences present in a plasmidless endocarditis-causing isolate. Savinelli EA, et al. **Ann N Y Acad Sci** 1990;590:523–33
Characterization and expression of the cbbE' gene of Coxiella burnetii. Minnick MF, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1099–107

GROWTH & DEVELOPMENT

Interaction between Dermacentor reticulatus cells and Coxiella burnetii in vivo. Reháček J, et al. **Acta Virol (Praha)** 1989 Sep;33(5):465–73
[The phase variation of Coxiella burnetii (theory and practice)] Pautov VN. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):97–103 (50 ref.) **(Rus)**

IMMUNOLOGY

Coxiella burnetii fails to stimulate human neutrophil superoxide anion production. Akporiaye ET, et al. **Acta Virol (Praha)** 1990 Feb;34(1):64–70
Cell-mediated immune response to Coxiella burnetii antigens in Q fever convalescents and vaccinees. Gajdošová E, et al. **Acta Virol (Praha)** 1989 Sep;33(5):474–81
The immune response to phase I and phase II Coxiella burnetii antigens as measured by western immunoblotting. Blondeau JM, et al. **Ann N Y Acad Sci** 1990;590:187–202
Injection of inactivated phase I Coxiella burnetii increases non-specific resistance to infection and stimulates lymphokine production in mice. Waag DM, et al. **Ann N Y Acad Sci** 1990;590:203–14
Antigenic structure of Coxiella burnetii. A comparison of lipopolysaccharide and protein antigens as vaccines against Q fever. Williams JC, et al. **Ann N Y Acad Sci** 1990; 590:370–80
The immune response in a cat-related outbreak of Q fever as measured by the indirect immunofluorescence test and the enzyme-linked immunosorbent assay. Embil J, et al. **Can J Microbiol** 1990 Apr;36(4):292–6
Vaccine prophylaxis of abattoir-associated Q fever: eight years' experience in Australian abattoirs. Marmion BP, et al. **Epidemiol Infect** 1990 Apr;104(2):275–87
A randomized, controlled, double-blind, cross-over, clinical trial of Q fever vaccine in selected Queensland abattoirs. Shapiro RA, et al. **Epidemiol Infect** 1990 Apr;104(2):267–73
The presence of Q-fever antibodies in Teheran's pigeons (Columba domestica). Bashiribod H. **Geogr Med Suppl** 1989;5:211–2
Serological evidence of Q fever in cattle in Malawi. Staley GP, et al. **Onderstepoort J Vet Res** 1989 Sep;56(3):205–6
[Prevalence of antibodies against Coxiella burnetii in 2 geographical zones of Tuscany] Tiscione E, et al. **Ann Ig** 1989 Sep-Oct;1(5):1133–43 (Eng. Abstr.) **(Ita)**
[Properties of phase I purified cellular antigen of Coxiella burnetii] Kruszewska D, et al. **Med Dosw Mikrobiol** 1989; 41(3-4):170–5 (Eng. Abstr.) **(Pol)**
[Detection of antigens to Bernet's coxiella using an immunoenzyme method] Gorbachev EN, et al. **Tr Inst Pastera** 1988;64:158–61 **(Rus)**
[Incidence of Coxiella burnetti and Chlamydia psittaci in cattle in southern Bohemia] Lisák V, et al. **Vet Med (Praha)** 1989 Jul;34(7):403–10 (Eng. Abstr.) **(Slo)**
[Antibody levels to B. abortus, B. canis and C. burnetti in the sera of patients with brucellosis-like symptoms] Köksal F, et al. **Mikrobiyol Bul** 1988 Apr;22(2):132–41 (Eng. Abstr.) **(Tur)**

ISOLATION & PURIFICATION

Strategy for detection and differentiation of Coxiella burnetii strains using the polymerase chain reaction. Mallavia LP, et al. **Ann N Y Acad Sci** 1990;590:572–81
Clinical aspects and prevention of Q fever in animals. Krauss H. **Eur J Epidemiol** 1989 Dec;5(4):454–5
[The biological properties of Rickettsia burnetii isolated in the northwestern Ukrainian SSR] Klimchuk ND, et al. **Mikrobiol Zh** 1989 Sep-Oct;51(5):60–7 (Eng. Abstr.) **(Rus)**

METABOLISM

Induction of heat-shock proteins in Coxiella burnetii. Thompson HA, et al. **Ann N Y Acad Sci** 1990;590:127–35
Isolated Coxiella burnetii synthesizes DNA during acid activation in the absence of host cells. Chen SY, et al. **J Gen Microbiol** 1990 Jan;136 (Pt 1):89–96

PATHOGENICITY

The role of lipopolysaccharides in the virulence of Coxiella burnetii. Hackstadt T. **Ann N Y Acad Sci** 1990;590:27–32
The effect of rickettsial lipopolysaccharide and insulin on S6 phosphorylation in guinea pig liver and HepG2 cells. Picking WD, et al. **Ann N Y Acad Sci** 1990;590:118–26
Endotoxicosis induced by Coxiella burnetii lipopolysaccharide stimulates a ribosomal protein S6 kinase: some properties of the partially purified enzyme. Picking WD, et al. **Infect Immun** 1989 Dec;57(12):3683–8
Isolation of a Coxiella burnetii strain that has low virulence for mice from a patient with acute Q fever. Oda H, et al. **Microbiol Immunol** 1989;33(11):969–73

PHYSIOLOGY

The biology of Coxiella burnetti and the pathobiochemistry of Q fever and its endotoxicosis. Paretsky D. **Ann N Y Acad Sci** 1990;590:416–21

RADIATION EFFECTS

Inactivation of Coxiella burnetii by gamma irradiation. Scott GH, et al. **J Gen Microbiol** 1989 Dec;135 (Pt 12):3263–70

COXSACKIE A VIRUSES

GENETICS

The nucleotide sequence of coxsackievirus A9; implications for receptor binding and enterovirus classification. Chang KH, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3269–80

ISOLATION & PURIFICATION

Coxsackie virus A 24 variant as the etiological agent of the acute haemorrhagic conjunctivitis epidemic at Vellore, in 1986. Ponnuraj EM, et al. **Indian J Med Res** 1989 Sep; 89:283–6

COXSACKIE A9 VIRUS see **COXSACKIE A VIRUSES**

COXSACKIE B VIRUSES

In vivo significance of T cells in the development of Coxsackievirus B3 myocarditis in mice. Immature but antigen-specific T cells aggravate cardiac injury. Kishimoto C, et al. **Circ Res** 1990 Sep;67(3):589–98
[Effects of Coxsackie B-2 virus infection on electrophysiologic properties of beating cultured rat heart cells] Yuan W. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1990 Feb; 18(1):39–41, 61–2 (Eng. Abstr.) **(Chi)**

ANALYSIS

Analysis of virus protein heterogeneity among group B coxsackie viruses using a "mini" two-dimensional gel electrophoresis system. Cash P. **Electrophoresis** 1989 Nov; 10(11):793–800

DRUG EFFECTS

Enhancement of Coxsackievirus B3 replication in Vero cells by indomethacin [letter] Khatib R, et al. **J Infect Dis** 1990 Oct;162(4):997–8
[Effect of dexamethasone on Coxsackie B-2 virus-infected rat beating heart cells in culture] Yang YZ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):346–9 (Eng. Abstr.) **(Chi)**

GENETICS

Species-specific substrate interaction of picornavirus 3C proteinase suballelic exchange mutants. Lawson MA, et al. **J Biol Chem** 1990 Sep 15;265(26):15920–31
Complete nucleotide sequence of infectious Coxsackievirus B3 cDNA: two initial 5' uridine residues are regained during plus-strand RNA synthesis. Klump WM, et al. **J Virol** 1990 Apr;64(4):1573–83

IMMUNOLOGY

Distribution of antibodies against Coxsackie B viruses, arboviruses and Toxoplasma gondii among patients with endomyocardial fibrosis (EMF) compared with normal subjects from EMF endemic and non-endemic zones of Nigeria. Ijaola O, et al. **Afr J Med Med Sci** 1990 Jun; 19(2):93–103
The Swedish childhood diabetes study III: IgM against coxsackie B viruses in newly diagnosed type 1 (insulin-dependent) diabetic children—no evidence of increased antibody frequency. Tuvemo T, et al. **Diabetologia** 1989 Oct;32(10):745–7
Enterovirus-specific IgM in the diagnosis of meningitis. Day C, et al. **J Infect** 1989 Nov;19(3):219–28
Evaluation of virus neutralization antibody levels in diabetic mutant mice. Loria RM, et al. **J Virol Methods** 1990 Jun; 28(3):235–44
A neutralizing monoclonal antibody against Coxsackievirus B4 cross-reacts with contractile muscle proteins. Beisel KW, et al. **Microb Pathog** 1990 Feb;8(2):151–6
Induction of heterotypic virus resistance in adult inbred mice immunized with a variant of Coxsackievirus B3. Landau BJ, et al. **Microb Pathog** 1990 Apr;8(4):289–98

ISOLATION & PURIFICATION

Coxsackie B antigen in the central nervous system of a patient with fatal acute encephalitis: immunohistochemical studies of formalin-fixed paraffin-embedded tissue. Kamei S, et al. **Acta Neuropathol (Berl)** 1990;80(2):216–21 (24 ref.)
Coxsackie B4 viruses with the potential to damage beta cells of the islets are present in clinical isolates. Szopa TM, et al. **Diabetologia** 1990 Jun;33(6):325–8
Functional diversity in vascular endothelial cells: role in coxsackievirus tropism. Huber SA, et al. **J Virol** 1990 Sep; 64(9):4516–22
Epidemiological observation of coxsackieviruses group B in sewage. Tani N, et al. **Kansenshogaku Zasshi** 1989 Sep; 63(9):1007–12

METABOLISM

Persistence of enteroviral RNA in chronic fatigue syndrome is associated with the abnormal production of equal amounts of positive and negative strands of enteroviral RNA. Cunningham L, et al. **J Gen Virol** 1990 Jun;71 (Pt 6):1399–402

[Study on the biological properties of solubilized HeLa cell receptors for group B coxsackieviruses] Xu R. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Feb; 12(1):13–8 (Eng. Abstr.) **(Chi)**

PATHOGENICITY

Coxsackievirus B3 myocarditis in C3H/HeJ mice: description of an inbred model and the effect of exercise on virulence. Kiel RJ, et al. **Eur J Epidemiol** 1989 Sep;5(3):348–50

Enhancement of coxsackievirus B4 virulence by indomethacin. Khatib R, et al. **J Lab Clin Med** 1990 Jul; 116(1):116–20

Evidence suggesting that virulence maps to the P1 region of the coxsackievirus B4 genome. Ramsingh A, et al. **J Virol** 1990 Jun;64(6):3078–81

Severity of disease induced by a pancreatropic Coxsackie B4 virus correlates with the H-2Kq locus of the major histocompatibility complex. Ramsingh A, et al. **Virus Res** 1989 Dec;14(4):347–58

[The hemagglutinating properties and adsorption on erythrocytes of Coxsackie B-3 viruses and their selected bentonite variants] Shirobokov VP, et al. **Mikrobiol Zh** 1989 Jul–Aug;51(4):51–4 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Effect of astragalus membranaceus on electric activities of cultured rat beating heart cells infected with Coxsackie B–2 virus. Yuan WL, et al. **Chin Med J [Engl]** 1990 Mar; 103(3):177–82

[A method for detecting the hemagglutinating activity of enteroviruses] Egorov AA, et al. **Mikrobiol Zh** 1989 Jul–Aug;51(4):95–7 (Eng. Abstr.) **(Rus)**

[The kinetics of Coxsackie B virus interaction with natural clay minerals] Globa LI, et al. **Mikrobiol Zh** 1983 Jul–Aug; 45(4):73–6 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

[Photosensitive paper as an indicator of the virucidal effect of bactericidal lamps] Moroz AG, et al. **Gig Sanit** 1989 Jun;(6):86–9 **(Rus)**

COXSACKIEVIRUS INFECTIONS

Constrictive pericarditis following acute Coxsackie viral pericarditis. Howard EJ, et al. **Am Heart J** 1968 Feb; 75(2):247–50

An epidemic of acute hemorrhagic conjunctivitis in American Samoa caused by coxsackievirus A24 variant. Sawyer LA, et al. **Am J Epidemiol** 1989 Dec;130(6):1187–98

Progressive interstitial collagen deposition in Coxsackievirus B3–induced murine myocarditis. Leslie KO, et al. **Am J Pathol** 1990 Mar;136(3):683–93

Acute non–haemorrhagic conjunctivitis due to coxsackievirus A24. Brooks AM, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):399–403

Oral medicine in practice: viral infection. Lamey PJ, et al. **Br Dent J** 1989 Oct 21;167(8):269–74

Adult heart disease due to the Coxsackie virus group B. Smith WG. **Br Heart J** 1966 Mar;28(2):204–20

Effect of Astragulas membranaceus on natural killer cell activity and induction of alpha– and gamma–interferon in patients with Coxsackie B viral myocarditis. Yang YZ, et al. **Chin Med J [Engl]** 1990 Apr;103(4):304–7

Treatment of experimental Coxsackie B–3 viral myocarditis with Astragalus membranaceus in mice. Yang YZ, et al. **Chin Med J [Engl]** 1990 Jan;103(1):14–8

Absence of effects of cyclosporine on myocardial lymphocyte subsets in Coxsackievirus B3 myocarditis in the aviremic stage. Kishimoto C, et al. **Circ Res** 1989 Oct; 65(4):934–45

Coxsackievirus B3 myocarditis in C3H/HeJ mice: description of an inbred model and the effect of exercise on virulence. Kiel RJ, et al. **Eur J Epidemiol** 1989 Sep;5(3):348–50

Modification of exercise–aggravated coxsackievirus B3 murine myocarditis by T lymphocyte suppression in an inbred model. Cabinian AE, et al. **J Lab Clin Med** 1990 Apr;115(4):454–62

Fatal Coxsackie B1 virus infection in neonates. Wong SN, et al. **Pediatr Infect Dis J** 1989 Sep;8(9):638–41

[Study on rapid diagnosis of acute hemorrhagic conjunctivitis caused by Coxsackievirus A24 variant] Mu GF. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Jun; 11(3):154–5 (Eng. Abstr.) **(Chi)**

COMPLICATIONS

Ventricular tachycardia associated with Coxsackie B4 virus infection. Tubman TR, et al. **Acta Paediatr Scand** 1990 May;79(5):572–5

Coxsackie virus infections and heart disease [editorial] Brown GC. **Am Heart J** 1968 Feb;75(2):145–6

Chorioretinitis induced by coxsackievirus B4 infection. Hirakata K, et al. **Am J Ophthalmol** 1990 Feb 15; 109(2):225–7

Autoantigen (64000–Mr) expression in coxsackievirus B4–induced experimental diabetes. Gerling I, et al. **Curr Top Microbiol Immunol** 1990;156:55–62 (45 ref.)

Coxsackie B4 viral myocarditis causing ventricular aneuryam. Goudevenos J, et al. **Int J Cardiol** 1990 Apr;27(1):122–4

Hemophagocytic syndrome associated with coxsackie virus A 9 infection in a non–immunosuppressed adult [letter] Guerin C, et al. **Intensive Care Med** 1989;15(8):547–8

Arthropathy of hands and feet in systemic lupus erythematosus. Reilly PA, et al. **J Rheumatol** 1990 Jun; 17(6):777–84

Complete atrioventricular block associated with regional myocardial scarring in a patient with Coxsackie B2 myocarditis. Sato Y, et al. **Jpn Heart J** 1989 Nov; 30(6):935–41

[Late sequelae of epidemic viral meningitis] Pierzchała K, et al. **Wiad Lek** 1989 Feb 1;42(3):155–8 (Eng. Abstr.) **(Pol)**

[Characteristics of the course of complicated myocarditis] Gordienko BV, et al. **Kardiologiia** 1990 Feb;30(2):61–6 (Eng. Abstr.) **(Rus)**

[Dilated cardiomyopathy: sequela of viral myocarditis?] Kipshidze NN. **Kardiologiia** 1989 Nov;29(11):75–9 (Eng. Abstr.) **(Rus)**

[The role of Coxsackie B viruses in the etiology of dilated cardiomyopathy] Novikov IuI, et al. **Ter Arkh** 1989; 61(11):97–102 (Eng. Abstr.) **(Rus)**

[The role of Coxsackie B viruses in the etiology of dilated cardiomyopathy] Shirobokov VP, et al. **Ter Arkh** 1990; 62(3):107–10 (Eng. Abstr.) **(Rus)**

[Acute idiopathic pleuropericarditis associated with transitory hypoparathyroidism (letter)] Pujadas R, et al. **Med Clin (Barc)** 1989 Jun 17;93(3):119 **(Spa)**

DIAGNOSIS

Clinical outcome and left ventricular function 23 years after acute coxsackie virus myopericarditis. Remes J, et al. **Eur Heart J** 1990 Feb;11(2):182–8

Hand, foot, and mouth disease preliminarily diagnosed as hypochondriasis. Davidson MJ, et al. **J Dent Educ** 1990 Jun;54(6):326–7

Coxsackie B5 papillitis [letter] Spalton DJ, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1310–1

Chronic coxsackie B infection mimicking primary fibromyalgia. Nash P, et al. **J Rheumatol** 1989 Nov; 16(11):1506–8

Hand, foot and mouth disease. Toms J, et al. **Practitioner** 1989 Aug 8;233(1473):1070

[Diagnosis of coxsackievirus infection] Nakamura M. **Nippon Rinsho** 1990 Feb;48 Suppl:309–11 **(Jpn)**

[Clinical aspects of viral meningitis in children] Kharchenko GA, et al. **Pediatriia** 1989;(8):67–71 **(Rus)**

DRUG THERAPY

Beneficial effects of captopril in acute coxsackievirus B3 murine myocarditis. Rezkalla S, et al. **Circulation** 1990 Mar; 81(3):1039–46

[Therapeutic effect of yupingfeng san and shengmai yin on Coxsackie B viral myocarditis] Chen S, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan;10(1):20–1, 3 (Eng. Abstr.) **(Chi)**

EPIDEMIOLOGY

Investigation of an outbreak of conjunctivitis in Pune during 1986. Gogate SS, et al. **J Commun Dis** 1988 Dec;20(4):360–1

Acute haemorrhagic conjunctivitis: seroepidemiology of coxsackievirus A24 variant and enterovirus 70 in Singapore. Goh KT, et al. **J Med Virol** 1990 Jul;31(3):245–7

[Hand–foot–mouth disease: its course in the city of Milan (1980–86). Epidemiologic study gathered from the records of the community and scholastic ambulatory services of the Istituto di Clinica Dermatologic I and Dermatologia Pediatrica of the University] Sala F, et al. **G Ital Dermatol Venereol** 1989 Mar;124(3):63–6 (Eng. Abstr.) **(Ita)**

[Non–poliomyelitis viruses in Poland 1982–1987] Jarząbek Z. **Przegl Epidemiol** 1989;43(3):250–8 (Eng. Abstr.) **(Pol)**

ETIOLOGY

Severity of disease induced by a pancreatropic Coxsackie B4 virus correlates with the H–2Kq locus of the major histocompatibility complex. Ramsingh A, et al. **Virus Res** 1989 Dec;14(4):347–58

[Psoriatic acro–osteolysis. Exclusive subungual pustular form associated with distant psoriasis vulgaris] Combemale P, et al. **Ann Dermatol Venereol** 1989;116(8):555–8 **(Fre)**

IMMUNOLOGY

Coxsackievirus–induced disease. CD4+ cells initiate both myocarditis and pancreatitis in DBA/2 mice. Blay R, et al. **Am J Pathol** 1989 Nov;135(5):899–907

Coxsackie B1 virus infection enhances the bacterial invasiveness, the phagocytosis and the membrane permeability in HEp–2 cells. Modalsli K, et al. **APMIS** 1990 Jun;98(6):489–95

In vivo significance of T cells in the development of Coxsackievirus B3 myocarditis in mice. Immature but antigen–specific T cells aggravate cardiac injury. Kishimoto C, et al. **Circ Res** 1990 Sep;67(3):589–98

Expression of major histocompatibility complex class I antigen in murine ventricular myocytes infected with Coxsackievirus B3. Seko Y, et al. **Circ Res** 1990 Aug; 67(2):360–7

Immunodeficiency as primary phenotype of diabetes mutation db. Studies with coxsackievirus B4. Montgomery LB, et al. **Diabetes** 1990 Jun;39(6):675–82

Coxsackievirus–B3–induced myocarditis: virus receptor antibodies modulate myocarditis [letter; comment] Kennedy JR. **J Immunol** 1990 Mar 15;144(6):2446–7 Comment on: J Immunol 1989 Sep 15;143(6):1843–50.

Evaluation of virus neutralization antibody levels in diabetic mutant mice. Loria RM, et al. **J Virol Methods** 1990 Jun; 28(3):235–44

Induction of heterotypic virus resistance in adult inbred mice immunized with a variant of Coxsackievirus B3. Landau BJ, et al. **Microb Pathog** 1990 Apr;8(4):289–98

[Macrophage disappearance reaction in mice during an infection caused by Coxsackie B3 virus] Shestenko OP, et al. **Vopr Virusol** 1989 May–Jun;34(3):338–42 (Eng. Abstr.) **(Rus)**

METABOLISM

Cardiovascular lipid accumulation with Coxsackie B virus infection in mice. Ilbäck NG, et al. **Am J Pathol** 1990 Jan; 136(1):159–67

MICROBIOLOGY

Coxsackie virus and rheumatic fever. A correlative study. Suresh L, et al. **J Assoc Physicians India** 1989 Sep; 37(9):582–5

Enhancement of coxsackievirus B4 virulence by indomethacin. Khatib R, et al. **J Lab Clin Med** 1990 Jul; 116(1):116–20

Functional diversity in vascular endothelial cells: role in coxsackievirus tropism. Huber SA, et al. **J Virol** 1990 Sep; 64(9):4516–22

PATHOLOGY

Coxsackie B antigen in the central nervous system of a patient with fatal acute encephalitis: immunohistochemical studies of formalin–fixed paraffin–embedded tissue. Kamei S, et al. **Acta Neuropathol (Berl)** 1990;80(2):216–21 (24 ref.)

A search for the presence of the enteroviral capsid protein VP1 in pancreases of patients with type 1 (insulin–dependent) diabetes and pancreases and hearts of infants who died of coxsackieviral myocarditis. Foulis AK, et al. **Diabetologia** 1990 May;33(5):290–8

Evidence suggesting that virulence maps to the P1 region of the coxsackievirus B4 genome. Ramsingh A, et al. **J Virol** 1990 Jun;64(6):3078–81

PHYSIOPATHOLOGY

Pancreatic D–cell disorder in coxsackievirus B4–induced diabetic mice. Chatterjee NK, et al. **Mol Cell Endocrinol** 1989 Nov;67(1):39–45

PREVENTION & CONTROL

Anti–mouse IgM immunoglobulin protects weanling mice from Coxsackievirus infection. Heard HK, et al. **Microb Pathog** 1989 Dec;7(6):399–409

THERAPY

Immunosuppression with high doses of cyclophosphamide reduces the severity of myocarditis but increases the mortality in murine Coxsackievirus B3 myocarditis. Kishimoto C, et al. **Circulation** 1990 Sep;82(3):982–9

COXSACKIEVIRUSES

GENETICS

The complete nucleotide sequence of coxsackievirus A21. Hughes PJ, et al. **J Gen Virol** 1989 Nov;70 (Pt 11):2943–52

ISOLATION & PURIFICATION

A search for the presence of the enteroviral capsid protein VP1 in pancreases of patients with type 1 (insulin–dependent) diabetes and pancreases and hearts of infants who died of coxsackieviral myocarditis. Foulis AK, et al. **Diabetologia** 1990 May;33(5):290–8

CPM THERAPY see MOTION THERAPY, CONTINUOUS PASSIVE

CRABS

Hypersensitivity reactions in seafood workers. Lehrer SB. **Allergy Proc** 1990 Mar–Apr;11(2):67–8

ANALYSIS

Environmental contaminant concentrations in biota from the lower Savannah River, Georgia and South Carolina. Winger PV, et al. **Arch Environ Contam Toxicol** 1990 Jan–Feb;19(1):101–17

ANATOMY & HISTOLOGY

Observations on the nature of neurosecretion in the marine crab Portunus sanguinolentus (Herbst) (Crustacea: Brachyura). Babu BT, et al. **Folia Morphol (Praha)** 1989; 37(3):274–84

The anatomy and histology of the midgut and hindgut of Charybdis (Goniohellenus) truncata (Fabricius, 1798) (Decapoda: Brachyura). Devi KN, et al. **Folia Morphol (Praha)** 1989;37(2):148–55

Observations on the morphology and histology of the foregut of Portunus sanguinolentus (Crustacea: Brachyura). Trinadha Babu B, et al. **Folia Morphol (Praha)** 1989; 37(4):364–72

Observations on the morphology and histochemistry of the midgut and hindgut of Portunus sanguinolentus (Herbst) (Crustaceans: Brachyura). Trinadha Babu B, et al. **Folia Morphol (Praha)** 1989;37(4):373–81

Studies of the neurohaemal organ (sinus gland) of the portunid crab Portunus sanguinolentus (Herbst) (Brachyura). 1. Morphology and histology in relation to moulting. Trinadha Babu B, et al. **Folia Morphol (Praha)** 1989;37(4):388–93

Functional morphology of the telson–uropod stretch receptor in the sand crab Emerita analoga. Wilson LJ, et al. **J Comp Neurol** 1990 Jun 15;296(3):343–58

DRUG EFFECTS

Effect of naloxone pretreatment on habituation in the crab Chasmagnathus granulatus. Romano A, et al. **Behav Neural Biol** 1990 Jan;53(1):113–22

Opioid action on response level to a danger stimulus in the crab (Chasmagnathus granulatus). Maldonado H, et al. **Behav Neurosci** 1989 Oct;103(5):1139–43

Influence of salinity on the toxicity of phosphamidon to the estuarine crab, Scylla serrata (Forskal). Reddy MS, et al. **Bull Environ Contam Toxicol** 1990 Jun;44(6):859–64

Respiration and osmoregulation of the estuarine crab, Rhithropanopeus harrisii (Gould): effects of the herbicide, alachlor. Diamond DW, et al. **Comp Biochem Physiol [A]** 1989;93(2):313–8

GENETICS

Cloning and sequence analysis of cDNA for precursor of a crustacean hyperglycemic hormone. Weidemann W, et al. **FEBS Lett** 1989 Oct 23;257(1):31–4

METABOLISM

Mobilization of copper among tissues in the estuarine crab Scylla serrata (Forskal) under imposed starvation. Arumugam M. **Arch Int Physiol Biochim** 1989 Jun; 97(3):247–57

The binding of cadmium to crab cadmium metallothionein. A polarographic investigation. Sparla AM, et al. **Biochem J** 1990 Apr 15;267(2):539–40

Expression of calcium channels in Xenopus oocyte injected with crab skeletal muscle fibre mRNA. Fournier F, et al. **Biol Cell** 1990;68(1):37–42

Effect of endosulfan on glutathione S-transferase and glutathione content of the premoult field crab, Paratelphusa hydrodromus. Yadwad VB. **Bull Environ Contam Toxicol** 1989 Oct;43(4):597–602

Zinc accumulation in fiddler crabs Uca annulipes latreille and Uca triangularis (Milne Edwards). Uma Devi V, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):129–40

Substance P antibody reveals homologous neurons with axon terminals among somata in the crayfish and crab brain. Sandeman RE, et al. **J Comp Neurol** 1990 Apr 22; 294(4):569–82

Evidence that Y-organs of the crab Cancer antennarius secrete 3-dehydroecdysone. Spaziani E, et al. **Mol Cell Endocrinol** 1989 Sep;66(1):17–25

PARASITOLOGY

Ultrastructural study on the spermiogenesis and spermatozoon of the metacercariae of Microphallus primas (Digenea), a parasite of Carcinus maenas. Castilho F, et al. **Mol Reprod Dev** 1990 Feb;25(2):140–6

PHYSIOLOGY

Farnesylacetone, a sesquiterpenic hormone of Crustacea, inhibits electron transport in isolated rat liver mitochondria. Dupont J, et al. **Biol Cell** 1989;67(2):141–6

Sodium-activated cation channels in peptidergic nerve terminals. Stuenkel EL, et al. **Brain Res** 1990 May 28; 517(1–2):35–43

Action potentials in a 'non-spiking' neurone: graded responses and spikes in the afferent P fibre of the crab thoracic-coxal muscle receptor organ. Wildman MH, et al. **Brain Res** 1990 Feb 19;509(2):339–42

Effects of chromium and cadmium upon respiration and survival of Callinectes similis. Ramírez P, et al. **Bull Environ Contam Toxicol** 1989 Dec;43(6):850–7

The effect of serotonin and octopamine on the optokinetic response of the crab Leptograpsus variegatus. Erber J, et al. **J Neurobiol** 1989 Dec;20(8):667–80

Neuromodulation of the crab pyloric central pattern generator by serotonergic/cholinergic proprioceptive afferents. Katz PS, et al. **J Neurosci** 1990 May; 10(5):1495–512

Long-term habituation to a danger stimulus in the crab Chasmagnathus granulatus. Lozada M, et al. **Physiol Behav** 1990 Jan;47(1):35–41

CRABS, HORSESHOE see **HORSESHOE CRABS**

CRACKED TOOTH SYNDROME see under **TOOTH FRACTURES**

CRAMP see **MUSCLE CRAMP**

CRANIAL FOSSA, POSTERIOR see under **SKULL**

CRANIAL NERVE DISEASES

CHEMICALLY INDUCED

Organophosphorus poisoning and intermediate neurotoxic syndrome. Samal KK, et al. **J Assoc Physicians India** 1990 Feb;38(2):181–2

The neurology of organophosphorus insecticide poisoning newer findings a view point. Wadia RS. **J Assoc Physicians India** 1990 Feb;38(2):129–31 (22 ref.)

COMPLICATIONS

Moebius' syndrome with unilateral cerebellar hypoplasia. Harbord MG, et al. **J Med Genet** 1989 Sep;26(9):579–82

Vasodilatation and migraine. **Lancet** 1990 Apr 7; 335(8693):822–3 (26 ref.)

Isolated optic nerve gliomas in children with and without neurofibromatosis. Duffner PK, et al. **Neurofibromatosis** 1988;1(4):201–11 (40 ref.)

Isolated trigeminal sensory neuropathy: a heterogeneous group of disorders. Flint S, et al. **Oral Surg Oral Med Oral Pathol** 1990 Feb;69(2):153–6 (37 ref.)

[Use of nerve division in oculomotor paralysis] Berrondo P, et al. **Ophtalmologie** 1989 Apr–May;3(2):169–70 (Eng. Abstr.) **(Fre)**

[Surgical treatment of sequelae of oculomotor paralysis of the 4th, 6th, and 3d cranial nerves] Kherroubi R, et al. **Ophtalmologie** 1989 Apr–May;3(2):154–6 (Eng. Abstr.) **(Fre)**

CONGENITAL

Congenital difficulties with swallowing and breathing associated with maternal polyhydramnios: neurocristopathy or medullary infarction? Alvord EC Jr, et al. **J Child Neurol** 1989 Oct;4(4):299–306 (50 ref.)

Moebius syndrome: animal model—human correlations and evidence for a brainstem vascular etiology. Lipson AH, et al. **Teratology** 1989 Oct;40(4):339–50 (102 ref.)

DIAGNOSIS

MR imaging of the cranial nerves. Lanzieri CF. **AJR Am J Roentgenol** 1990 Jun;154(6):1263–7

Blink reflexes and magnetic resonance imaging in focal unilateral central trigeminal pathway demyelination. Kiers L, et al. **J Neurol Neurosurg Psychiatry** 1990 Jun; 53(6):526–9

Renal cell carcinoma presenting as Garcin's syndrome. Mubaidin SI, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):613–4

Multiple cranial-nerve palsies [letter; comment] Hoenig PA. **N Engl J Med** 1990 Jun 28;322(26):1889 Comment on: N Engl J Med 1990 Feb 15;322(7):461–3.

Central dazzle in trigeminal sensory neuropathy. Gutrecht JA, et al. **Neurology** 1990 Apr;40(4):722–3

Traumatic trochlear nerve palsy diagnosed by magnetic resonance imaging: case report and review of the literature [published erratum appears in Neurosurgery 1990 Apr;26(4):717] Burgerman RS, et al. **Neurosurgery** 1989 Dec;25(6):978–81

Hypoglossal nerve paralysis. Jabourian Z, et al. **Trans Pa Acad Ophthalmol Otolaryngol** 1989;41:874–9 (15 ref.)

[Neurosarcoidosis. Comparative analysis of the clinical profile based on 537 cases from the world literature up to 1963 and from 1976–1988] Mende D, et al. **Fortschr Neurol Psychiatr** 1990 Jan;58(1):7–18 (237 ref.) (Eng. Abstr.) **(Ger)**

[FANDOS—a new standardized computer-assisted documentation and evaluation of diseases of the facial nerve] Damenz W, et al. **HNO** 1990 Mar;38(3):116–8 (Eng. Abstr.) **(Ger)**

[Recurrent and relapsing course of borreliosis of the nervous system] Omasits M, et al. **Wien Klin Wochenschr** 1990 Jan 5;102(1):4–12 (59 ref.) (Eng. Abstr.) **(Ger)**

[Method of studying mononeuropathy of a cranial nerve pair] Martí Massó JF. **Neurologia** 1989 Oct;4(8):288–92 (34 ref.) **(Spa)**

DRUG THERAPY

Early and late botulinum toxin treatment of acute sixth nerve palsy. Murray AD. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):239–45

The role of botulinum toxin in the management of sixth nerve palsy. Fitzsimons R, et al. **Eye** 1989;3 (Pt 4):391–400

ETIOLOGY

Trigeminal schwannoma as a cause of chronic, isolated sixth nerve palsy. Del Priore LV, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):726–9

Vocal cord paralysis and superior laryngeal nerve dysfunction in Reye's syndrome. Thompson JW, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jan;116(1):46–8

Postoperative recovery of third nerve palsy due to posterior communicating aneurysms. Kyriakides T, et al. **Br J Neurosurg** 1989;3(1):109–11

Neurovascular decompression for cranial rhizopathies. Panagopoulos K, et al. **Br J Neurosurg** 1987;1(2):235–41

Adenoid cystic carcinoma of the tongue presenting as a hypoglossal nerve palsy. Silvester KC, et al. **Br J Oral Maxillofac Surg** 1990 Apr;28(2):122–4 (6 ref.)

Optic nerve infiltration in leukemia. De Gersem R, et al. **Bull Soc Belge Ophtalmol** 1988;227:65–74

Neurological complications of systemic sclerosis—a report of three cases and review of the literature. Berth-Jones J, et al. **Clin Exp Dermatol** 1990 Mar;15(2):91–4 (47 ref.)

Paralysis of the recurrent laryngeal nerve by an extracapsular thyroid adenoma. Slomka WS, et al. **Ear Nose Throat J** 1989 Nov;68(11):855–6, 858–60, 863

Sudden dysphonia due to parathyroid apoplexy: a rare case of recurrent laryngeal nerve palsy. Ben-Shlomo I, et al. **Head Neck** 1990 Jul–Aug;12(4):355–6

Foville's syndrome in infancy: report of a case. Srivastava DK, et al. **Indian Pediatr** 1965 Feb;2(2):49–50

Q fever meningoencephalitis associated with bilateral abducens nerve paralysis, bilateral optic neuritis and abnormal cerebrospinal fluid findings. Shaked Y, et al. **Infection** 1989 Nov–Dec;17(6):394–5

Relapsing spinal cord and cranial nerve syndromes in Takayasu's arteritis. Gupta R, et al. **J Assoc Physicians India** 1989 Aug;37(8):537–9

Dolichoectasia and cranial nerve palsies. A case report. Durand JR, et al. **J Clin Neuro Ophthalmol** 1989 Dec; 9(4):249–53

Progressive cranial polyneuropathy caused by primary central nervous system melanoma. Fish LA, et al. **J Clin Neuro Ophthalmol** 1990 Mar;10(1):41–4

Isolated, pupil-sparing third nerve palsy as initial manifestation of systemic lupus erythematosus. Rosenstein ED, et al. **J Clin Neuro Ophthalmol** 1989 Dec;9(4):285–8

Multiple cranial-nerve palsies: a diagnostic challenge [editorial; comment] [see comments] Beal MF. **N Engl J Med** 1990 Feb 15;322(7):461–3 Comment on: N Engl J Med 1990 Feb 15;322(7):450–4. Comment in: N Engl J Med 1990 Jun 28;322(26):1889.

Hyperostosis cranialis interna. A new hereditary syndrome with cranial-nerve entrapment [see comments] Manni JJ, et al. **N Engl J Med** 1990 Feb 15;322(7):450–4 Comment in: N Engl J Med 1990 Feb 15;322(7):461–3.

Cranial neuropathy in systemic malignancy in a VA population. Gupta SR, et al. **Neurology** 1990 Jun; 40(6):997–9

Hemangiopericytoma as the cause of Collet–Sicard syndrome. Sehitoğlu MA, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(2):133–6

Cranial nerve palsies in Streptococcus pneumoniae meningitis. Chu ML, et al. **Pediatr Neurol** 1990 May–Jun; 6(3):209–10

A case of sarcoidosis presenting as cranial polyneuritis. Lim SH, et al. **Singapore Med J** 1989 Aug;30(4):400–3

Multiple cranial neuropathy as a feature of internal carotid artery dissection. Panisset M, et al. **Stroke** 1990 Jan; 21(1):141–7

[Respiratory arrest following retrobulbar block] Nielsen L. **Ugeskr Laeger** 1990 Jan 29;152(5):329 (Eng. Abstr.) **(Dan)**

[Involvement of the cranial nerves disclosing multiple myeloma] Ennouri A, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(2):141–3 (Eng. Abstr.) **(Fre)**

[Benign isolated 6th nerve paralysis in children. Developmental aspects apropos of 9 new cases] Roussat B, et al. **Ophtalmologie** 1989 Apr–May;3(2):107–8 (Eng. Abstr.) **(Fre)**

[Garcin syndrome—a case report] Benedetti J. **Schweiz Rundsch Med Prax** 1989 Sep 19;78(38):1045–8 (Eng. Abstr.) **(Ger)**

[A case of arachnoid cyst in the posterior fossa with lower cranial nerve palsy] Takechi A, et al. **No Shinkei Geka** 1990 Jun;18(6):551–4 (Eng. Abstr.) **(Jpn)**

[Adenoid cystic carcinoma presenting as cavernous sinus syndrome: a clinico-pathological study of two cases] Yamamoto T, et al. **No To Shinkei** 1989 May;41(5):519–25 (Eng. Abstr.) **(Jpn)**

[Cranial nerve involvement as the primary manifestation of Guillain-Barré syndrome] Fernández Pérez A, et al. **Acta Otorrinolaringol Esp** 1989 Nov–Dec;40(6):446–7 (Eng. Abstr.) **(Spa)**

[Cranial neuropathy and cancer] Dalmau J, et al. **Neurologia** 1986 Sep–Oct;1(5):202–11 (202 ref.) **(Spa)**

[Cranial neuropathy in patients with systemic cancer] Martí Massó JF. **Neurologia** 1986 Sep–Oct;1(5):183–4 **(Spa)**

GENETICS

MCA/MR syndrome with oligodactyly and Möbius anomaly in first cousins: new syndrome or familial facial-limb disruption sequence? Journel H, et al. **Am J Med Genet** 1989 Dec;34(4):506–10

HISTORY

The idiopathic polyradiculoneuropathies: a historical guide to an understanding of the clinical syndromes. Horowitz SH. **Acta Neurol Scand** 1989 Nov;80(5):369–86 (153 ref.)

PATHOLOGY

Focal cranial nerve involvement in chronic inflammatory demyelinating polyneuropathy: clinical and MRI evidence of peripheral and central lesions. Waddy HM, et al. **J Neurol** 1989 Oct;236(7):400–5

Atypical findings in cephalic herpes zoster polyneuritis: case reports and radiographic findings. Golden LI, et al. **Laryngoscope** 1990 May;100(5):494–7

PHYSIOPATHOLOGY

Recurrent spontaneous accessory neuropathy [letter] Chalk C, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):621

Neuralgic amyotrophy with involvement of cranial nerves IX, X, XI and XII. Pierre PA, et al. **Muscle Nerve** 1990 Aug;13(8):704–7

Tumor spread in unilateral optic glioma. Study report No. 2. North American Study Group for Optic Glioma. **Neurofibromatosis** 1989;2(4):195–203

[Study of abduction in congenital, acquired, and pseudo-paralysis of the 6th nerve] Bourron-Madignier M, et al. **Ophtalmologie** 1989 Apr–May;3(2):101–6 (Eng. Abstr.) **(Fre)**

RADIOTHERAPY

Reversal of cranial nerve dysfunction with radiation therapy in adults with lymphoma and leukemia. Gray JR, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug;19(2):439–44

SURGERY

Microvascular decompression [letter] Burchiel KJ. **J Neurosurg** 1990 Apr;72(4):671–2

[Surgery of 6th nerve paralysis. 74 cases] Quéré MA, et al. **Ophtalmologie** 1989 Apr–May;3(2):150–3 (Eng. Abstr.) **(Fre)**

[Neurologic complications in mid-face fractures] Bonkowsky VM, et al. **Laryngorhinootologie** 1989 Oct;68(10):539–42 (Eng. Abstr.) **(Ger)**

CRANIAL NERVE NEOPLASMS

A review of acoustic tumors: 1983–1988. Brackmann DE, et al. **Am J Otol** 1990 May;11(3):216–32 (367 ref.)

Schwannoma of the oculomotor nerve. Mehta VS, et al. **Br J Neurosurg** 1990;4(1):69–72 (20 ref.)

Uveal malignant melanoma and optic nerve glioma in von Recklinghausen's neurofibromatosis. Antle CM, et al. **Br J Ophthalmol** 1990 Aug;74(8):502–4

Primary optic nerve sheath meningioma. Wright JE, et al. **Br J Ophthalmol** 1989 Dec;73(12):960–6

Isolated schwannoma of the fourth cranial nerve: case report [letter] Maurice-Williams RS. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1442–3

Ophthalmic neoplasms in infancy and childhood. Sykora KW, et al. **Pediatrician** 1990;17(3):163–72 (46 ref.)

[A case of tumor of the optic nerve] Borzeix A, et al. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):459–62 **(Fre)**

CHEMICALLY INDUCED

Effect of nerve growth factor on the transplacental induction of neurinomas by ethylnitrosourea in Sprague–Dawley rats. Raju NR, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7120–3

COMPLICATIONS

Optic glioma with intraocular tumor and seeding in a child with neurofibromatosis. de Keizer RJ, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):717–25

Trigeminal schwannoma as a cause of chronic, isolated sixth nerve palsy. Del Priore LV, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):726–9

Vestibular schwannoma presenting with sudden facial paralysis. Wexler DB, et al. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):483–5

Late pseudo-exacerbation of myasthenia gravis due to ectopic thymoma invading lower cranial nerves. MacLean G, et al. **Can J Neurol Sci** 1990 Feb;17(1):46–8

Acute visual loss due to a calcified optic nerve glioma. Jordan DR, et al. **Can J Ophthalmol** 1989 Dec;24(7):335–9

Pulsating orbital plexiform neurofibroma and optic nerve glioma. Binitie OP, et al. **East Afr Med J** 1989 May; 66(5):362–4

Pseudo-Foster Kennedy syndrome in a patient with anterior ischemic optic neuropathy and a nonbasal glioma. Limaye SR, et al. **J Clin Neuro Ophthalmol** 1990 Sep;10(3):188–92

Facial schwannoma without facial paralysis. Sharp JF, et al. **J Laryngol Otol** 1989 Oct;103(10):973–5

Optic pathway gliomas. **Neurofibromatosis** 1988;1(4):197–251

Brain tumors in children with von Recklinghausen neurofibromatosis. Hochstrasser H, et al. **Neurofibromatosis** 1988;1(4):233–9

Intracranial visual pathway gliomas in children with neurofibromatosis. Packer RJ, et al. **Neurofibromatosis** 1988;1(4):212–22

Pathological features of optic nerve and chiasmatic gliomas. Rubinstein LJ. **Neurofibromatosis** 1988;1(3):152–8 (33 ref.)

Optic gliomas and neurofibromatosis: neurosurgical management. Spitzer DE, et al. **Neurofibromatosis** 1988; 1(4):223–32 (34 ref.)

[Progressive facial palsy. 2 recent cases] Darrouzet V, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(5):471–4 (Eng. Abstr.) **(Fre)**

[Glossopharyngeal neurinoma causing symptomatic hemorrhage: case report] Minokura K, et al. **No Shinkei Geka** 1990 Jul;18(7):659–63 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Tongue paralysis of neoplastic origin] Marco M, et al. **Neurologia** 1989 Oct;4(8):277–81 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Gd-DTPA-enhanced MR imaging of cochlear schwannoma. Brogan M, et al. **AJNR** 1990 Mar–Apr;11(2):407–8

MR imaging of optic nerve lesions: value of gadopentetate dimeglumine and fat-suppression technique. Hendrix LE, et al. **AJR Am J Roentgenol** 1990 Oct;155(4):849–54

Trigeminal schwannomas: has the 'new technology' made any difference? Page RD, et al. **Br J Neurosurg** 1988; 2(1):67–71

Optic nerve gliomas in children: a reappraisal. West CG. **Br J Neurosurg** 1987;1(1):99–104

Our treatment philosophy of gliomas of the anterior visual pathways. Beneš V, et al. **Childs Nerv Syst** 1990 Mar; 6(2):75–8

Clinical review of neurofibromatosis. Rosner J. **J Am Optom Assoc** 1990 Aug;61(8):613–8

Primary chiasmal germinoma. A case report and review of the literature. Bowman CB, et al. **J Clin Neuro Ophthalmol** 1990 Mar;10(1):9–17 (48 ref.)

Cavernous angiomas of the anterior visual pathways. Hassler W, et al. **J Clin Neuro Ophthalmol** 1989 Sep;9(3):160–4

Aneurysm mimicking intracranial growth of optic nerve sheath meningioma. Landau K, et al. **J Clin Neuro Ophthalmol** 1990 Sep;10(3):185–7

Neurinoma of the oculomotor nerve: CT and MR features. Katsumata Y, et al. **J Comput Assist Tomogr** 1990 Jul–Aug; 14(4):658–61 (26 ref.)

Cystic schwannoma mimicking a brain stem tumor: MR features. Sigal R, et al. **J Comput Assist Tomogr** 1990 Jul–Aug;14(4):662–4

MR imaging of cavernous hemangioma of the optic chiasm. Tien R, et al. **J Comput Assist Tomogr** 1989 Nov–Dec; 13(6):1087–8

Primary facial nerve tumors within the skull. King TT, et al. **J Neurosurg** 1990 Jan;72(1):1–8

Cavernous angiomas of the cranial nerves. Report of two cases. Matias-Guiu X, et al. **J Neurosurg** 1990 Oct; 73(4):620–2

Intratemporal facial nerve neurinoma—case report. Matsuda M, et al. **Neurol Med Chir (Tokyo)** 1989 Sep;29(9):842–5

Magnetic resonance imaging of optic nerve meningiomas. Enhancement with gadolinium-DTPA. Zimmerman CF, et al. **Ophthalmology** 1990 May;97(5):585–91

The use of magnetic resonance imaging with high-resolution CT in the evaluation of facial paralysis. Schwaber MK, et al. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):449–58

Delayed diagnosis of optic nerve glioma: a preventable cause of visual loss. Appleton RE, et al. **Pediatr Neurol** 1989 Jul–Aug;5(4):226–8

Vagal nerve schwannoma—a new diagnostic sign. Morrissey MS, et al. **Postgrad Med J** 1990 Jan;66(771):42–3

Perineural tumor extension through the foramen ovale: evaluation with MR imaging. Laine FJ, et al. **Radiology** 1990 Jan;174(1):65–71

CT and MRI of the optic nerve and sheath. Azar-Kia B, et al. **Semin Ultrasound CT MR** 1988 Dec;9(6):443–54 (56 ref.)

Infratentorial neoplasms, including the internal auditory canal and cerebellopontine angle regions. Hasso AN. **Top Magn Reson Imaging** 1989 Mar;1(2):37–51

[Idiopathic inflammation of the optic nerve simulating optic nerve sheath meningioma] Zhang T. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Feb; 12(1):68–9 (Eng. Abstr.) **(Chi)**

[Comparison of computed tomographic scanning and magnetic resonance imaging in the diagnosis of trigeminal schwannoma. Report of four cases] Saito A, et al. **Neurol Med Chir (Tokyo)** 1989 Dec;29(12):1101–6 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance imaging in 38 cases of acoustic tumors] Uchino M, et al. **Neurol Med Chir (Tokyo)** 1989 Aug; 29(8):707–14 (Eng. Abstr.) **(Jpn)**

[Malignant schwannoma of acoustic nerve: a case report] Matsumoto M, et al. **No Shinkei Geka** 1990 Jan;18(1):59–62 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The clinical picture and diagnosis of optic nerve gliomas in adults] Gabibov GA, et al. **Vestn Oftalmol** 1989 Sep–Oct; 105(5):40–4 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

The optic nerve as the site of initial relapse in childhood acute lymphoblastic leukemia [letter; comment] Nitschke R. **Cancer** 1990 Mar 15;65(6):1461–2 Comment on: Cancer 1989 Apr 15;63(8):1616–20.

EPIDEMIOLOGY

Descriptive epidemiology of primary tumors of the brain, cranial nerves and cranial meninges in Los Angeles County. Preston-Martin S. **Neuroepidemiology** 1989;8(6):283–95

The North American Study Group for Optic Glioma [editorial] Wilson WB. **Neurofibromatosis** 1988;1(4):199–200

ETIOLOGY

Optic pathway gliomas in neurofibromatosis. Pou-Serradell A, et al. **Neurofibromatosis** 1989;2(4):227–32

Hemangiopericytoma as the cause of Collet-Sicard syndrome. Sehitoğlu MA, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(2):133–6

GENETICS

[A familial case of Recklinghausen's disease] Rossazza C, et al. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):417–9 (Eng. Abstr.) **(Fre)**

[Vagal paraganglioma associated with a rare malformation of the aortic arch. Apropos of a case and review of the literature] Giron J, et al. **J Radiol** 1989 Aug–Sep; 70(8–9):477–81 (9 ref.) (Eng. Abstr.) **(Fre)**

[Optic nerve hemangioblastoma. Case report] Hotta H, et al. **Neurol Med Chir (Tokyo)** 1989 Oct;29(10):948–52 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Malignant schwannoma arising in the intracranial trigeminal nerve. A report of an autopsy case and a review of the literature. Horie Y, et al. **Acta Pathol Jpn** 1990 Mar; 40(3):219–25 (25 ref.)

Multicentric astrocytomas of the optic chiasm, brain stem and spinal cord. Matsumoto T, et al. **Acta Pathol Jpn** 1989 Oct;39(10):664–9

The solitary schwannoma of the eighth cranial nerve. An immunohistochemical study of the cochlear nerve-tumor interface. Marquet JF, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1023–5

Optic glioma of childhood: clinical, histopathological, and histochemical observations. Bilgiç S, et al. **Br J Ophthalmol** 1989 Oct;73(10):832–7

Neurinoma of the oculomotor nerve—case report. Takano S, et al. **Neurol Med Chir (Tokyo)** 1990 Feb;30(2):132–6 (19 ref.)

Cystic optic glioma. Gower DJ, et al. **Neurosurgery** 1990 Jan;26(1):133–6

Malignant melanoma associated with melanocytoma of the optic disc. Shields JA, et al. **Ophthalmology** 1990 Feb; 97(2):225–30

The proliferative activity of neurilemomas. Lee KS, et al. **Surg Neurol** 1989 Dec;32(6):427–33

[Clinical aspects of leukemic infiltration of the choroid and the optic nerve] De Laey JJ, et al. **J Fr Ophtalmol** 1989; 12(11):819–25 (30 ref.) (Eng. Abstr.) **(Fre)**

[A case of mediastinal neurinoma originating from right intrathoracic vagal nerve] Takahashi K, et al. **Kyobu Geka** 1990 Mar;43(3):236–9 (Eng. Abstr.) **(Jpn)**

[A case of facial nerve neurinoma originated from the cerebellopontine angle portion] Katayama S, et al. **No Shinkei Geka** 1989 Nov;17(11):1041–6 (64 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Wave V interaural latency differences as a function of asymmetry in 2,000–4,000 Hz hearing sensitivity. Bauch CD, et al. **Am J Otol** 1989 Sep;10(5):389–92

Pathophysiology of facial nerve disorders. Pillsbury HC 3d. **Am J Otol** 1989 Sep;10(5):405–12 (33 ref.)

Preoperative and postoperative auditory brain-stem response results for patients with eighth-nerve tumors. Bauch CD, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep; 116(9):1026–9

Visual evoked potential abnormalities in chiasmal lesions. Brecelj J, et al. **Doc Ophthalmol** 1989 Oct;73(2):139–48

[Monitoring control of the visual evoked potentials during the surgical treatment of tumors of the chiasmal-sellar area] Oliushin VE, et al. **Zh Vopr Neirokhir** 1990 May–Jun; (3):22–4 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Leukemic infiltration of the optic nerves: demonstration by computerized tomography. Tourje EJ, et al. **Comput Tomogr** 1977;1(3):225–8

Trigeminal schwannoma with infratemporal extension. Case report. Lunardi P, et al. **J Neurosurg Sci** 1989 Jul–Sep; 33(3):293–5

Cystic acoustic neurinomas—report of two cases. Yamada S, et al. **Neurol Med Chir (Tokyo)** 1989 Sep;29(9):830–3 (17 ref.)

[A case of benign schwannoma of the intrathoracic vagus nerve] Ferranti C, et al. **Radiol Med (Torino)** 1990 Apr; 79(4):404–6 **(Ita)**

[Plexiform neurofibroma of the vagus nerve associated with Recklinghausen's disease] Kubota H. **Rinsho Hoshasen** 1989 Oct;34(11):1407–8 **(Jpn)**

RADIOTHERAPY

Definitive radiation therapy in the management of symptomatic patients with optic glioma. Survival and long-term effects. Pierce SM, et al. **Cancer** 1990 Jan 1; 65(1):45–52

Radiation therapy for gliomas of the optic nerve and chiasm. Kovalic JJ, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr; 18(4):927–32

Management of pregeniculate anterior visual pathway gliomas. Chung SM, et al. **Neurofibromatosis** 1988; 1(4):240–7

Controversy in the management of optic pathway gliomas. 29 patients treated with radiation therapy at Baylor College of Medicine from 1967 through 1987. Easley JD, et al. **Neurofibromatosis** 1988;1(4):248–51

[Treatment of olfactory neuroblastoma: a report of 14 cases] Tu MC. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1990; 25(2):98–9, 126–7 (Eng. Abstr.) **(Chi)**

[A case of optic nerve tumor treated by radiotherapy] el Matri L, et al. **Tunis Med** 1989 Dec;67(12):821–4 **(Fre)**

SECONDARY

Neural infiltration of glomus temporale tumors. Makek M, et al. **Am J Otol** 1990 Jan;11(1):1–5

Perineural spread of cutaneous head and neck cancer. Its orbital and central neurologic complications. Clouston PD, et al. **Arch Neurol** 1990 Jan;47(1):73–7

Ophthalmic manifestations of perineural spread of facial skin malignancy. Smith JB, et al. **Aust N Z J Ophthalmol** 1990 May;18(2):197–205

Pinealoblastoma metastatic to the optic nerve. Hertle RW, et al. **J Clin Neuro Ophthalmol** 1990 Jun;10(2):95–9

Renal cell carcinoma presenting as Garcin's syndrome. Mubaidin SI, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):613–4

Cranial neuropathy in systemic malignancy in a VA population. Gupta SR, et al. **Neurology** 1990 Jun; 40(6):997–9

[Askin tumor with infiltration of the optic nerves and diabetes insipidus (letter)] Martín García G, et al. **Med Clin (Barc)** 1990 Feb 24;94(7):279 **(Spa)**

SURGERY

Intrathoracic tumors of the vagus nerve. Dabir RR, et al. **Ann Thorac Surg** 1990 Sep;50(3):494–7 (23 ref.)

Surgical approaches to acoustic nerve tumours. King TT. **Br J Neurosurg** 1988;2(4):433–8 (27 ref.)

Optic nerve glioma and the management of optic nerve tumours in the young. Wright JE, et al. **Br J Ophthalmol** 1989 Dec;73(12):967–74

Resection of high-cervical paraganglioma with cervical-to-petrous internal carotid artery saphenous vein bypass. Report of two cases. Miyazaki S, et al. **J Neurosurg** 1990 Jul;73(1):141–6

Trigeminal neurinomas: operative approach in eight cases. Yasui T, et al. **J Neurosurg** 1989 Oct;71(4):506–11

Trigeminal nerve neurofibroma: case report. Loutfy WG, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):650–4

Jugular foramen peripheral nerve sheath tumors. Franklin DJ, et al. **Laryngoscope** 1989 Oct;99(10 Pt 1):1081–7

Ganglioglioma of the optic chiasm: case report and review of the literature. Chilton J, et al. **Neurosurgery** 1990 Jun; 26(6):1042–5 (20 ref.)

Intracranial hypoglossal neurinoma [letter; comment] Dolan E, et al. **Neurosurgery** 1989 Oct;25(4):670 Comment on: Neurosurgery 1989 Apr;24(4):583–7.

Combined frontotemporal-orbitozygomatic approach for tumors of the sphenoid wing and orbit. McDermott MW, et al. **Neurosurgery** 1990 Jan;26(1):107–16

[Cavernous angioma of the optic chiasm] Castel JP, et al. **Neurochirurgie** 1989;35(4):252–6 (Eng. Abstr.) **(Fre)**

[Combination hydrophilic contact lenses in keratitis neuroparalytica] Leo M. **Klin Monatsbl Augenheilkd** 1990 Jan;196(1):38–9 (Eng. Abstr.) **(Ger)**

[An operative case of benign schwannoma originating in the intrathoracic vagal nerve] Kayano K, et al. **Kyobu Geka** 1990 Jul;43(7):553–5 (Eng. Abstr.) **(Jpn)**

[A case of mediastinal schwannoma originating from the thoracic vagal nerve complicated by early stomach cancer] Yamamoto M, et al. **Kyobu Geka** 1990 May;43(5):416–8 (7 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

[Acute myelogenous leukemia with recurrence of the meningeal, spinal cord and the optic nerve infiltration with remission induction by Co therapy and maintained by intrathecal chemotherapy with Ommaya reservoir] Kurituka H, et al. **Rinsho Ketsueki** 1989 Oct; 30(10):1898–902 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

[Clinicopathologic and ultrastructural studies of olfactory neuroblastoma] Wei Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):193–6 (Eng. Abstr.) **(Chi)**

VETERINARY

What is your diagnosis? Retrobulbar mass of the left eye, measuring 1.5 cm deep by 1.5 cm long, compressing the caudal aspect of the globe. Abrams K, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):951–2

CRANIAL NERVES

Cranial nerve lesions due to base of the skull metastases in prostate carcinoma. Ransom DT, et al. **Cancer** 1990 Feb 1;65(3):586–9

Lower cranial nerve palsy due to dissection of the internal carotid artery: CT and MR imaging. Dal Pozzo G, et al. **J Comput Assist Tomogr** 1989 Nov-Dec;13(6):989–95

ABNORMALITIES

Pontobulbar palsy and neurosensory deafness (Brown-Vialetto-Van Laere syndrome) with possible autosomal dominant inheritance. Hawkins SA, et al. **J Med Genet** 1990 Mar;27(3):176–9

ANATOMY & HISTOLOGY

MR imaging of the cranial nerves. Lanzieri CF. **AJR Am J Roentgenol** 1990 Jun;154(6):1263–7

Central projections of the nervus terminalis in four species of amphibians. Hofmann MH, et al. **Brain Behav Evol** 1989; 34(5):301–7

Peripheral distribution and central projections of the lateral-line nerves in goldfish, Carassius auratus. Puzdrowski RL. **Brain Behav Evol** 1989;34(2):110–31

Morphological differences in neuromasts of the blind cave fish Astyanax hubbsi and the sighted river fish Astyanax mexicanus. Teyke T. **Brain Behav Evol** 1990;35(1):23–30

[MR three-dimensional Fourier transform imaging at 0.5 T: neurosurgical application] Itoh K. **Nippon Rinsho** 1990 Apr; 48(4):846–53 (8 ref.) **(Jpn)**

[The intermediate nerve and its place in the system of cranial nerves] Lobko PI, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):37–46 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

Persistent primitive trigeminal artery: a possible cause of trigeminal and abducens nerve palsy [letter] Ikezaki K, et al. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1449–50

Microvascular decompression [letter] Burchiel KJ. **J Neurosurg** 1990 Apr;72(4):671–2

CYTOLOGY

[The cytoarchitectonic characteristics of the cochlear complex in pinnipeds] Zharskaia VD, et al. **Nerv Sist** 1989; 28:132–9 **(Rus)**

DRUG EFFECTS

Effects of acute lead acetate exposure on adult guinea pigs: electrophysiological study of the inner ear. Yamamura K, et al. **Fundam Appl Toxicol** 1989 Oct;13(3):509–15

EMBRYOLOGY

Heparitinase treatment of rat embryos during cranial neurulation. Tuckett F, et al. **Anat Embryol (Berl)** 1989; 180(4):393–400

Early development of the olfactory and terminalis systems in baleen whales. Oelschläger HA. **Brain Behav Evol** 1989; 34(3):171–83

Expression of nerve growth factor receptor mRNA during early development of the chicken embryo: emphasis on cranial ganglia. Hallböök F, et al. **Development** 1990 Apr; 108(4):693–704

ENZYMOLOGY

Organization of choline acetyltransferase-containing structures in the cranial nerve motor nuclei and lamina IX of the cervical spinal cord of the rat. Ichikawa T, et al. **J Hirnforsch** 1990;31(2):251–7

INJURIES

[Cranial nerve injuries in children] Goven'ko FS. **Zh Nevropatol Psikhiatr** 1990;90(4):16–8 (Eng. Abstr.) **(Rus)**

METABOLISM

Members of the RCK potassium channel family are differentially expressed in the rat nervous system. Beckh S, et al. **EMBO J** 1990 Mar;9(3):777–82

PATHOLOGY

Know your anatomy: perineural involvement of basal and squamous cell carcinoma on the face. Carlson KC, et al. **J Dermatol Surg Oncol** 1990 Sep;16(9):827–33

An anatomic and dynamic study of the greater occipital nerve (n. of Arnold). Applications to the treatment of Arnold's neuralgia. Vital JM, et al. **Surg Radiol Anat** 1989; 11(3):205–10

[Morphologic changes of the cranial nerves, spinal cord ganglia and roots in botulism] Parkhomenko IuG, et al. **Arkh Patol** 1989;51(10):45–50 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Resting discharge and sensitivity of ampullary electroreceptors in Clarias gariepinus related to convergence ratio during ontogeny. Peters RC, et al. **Brain Behav Evol** 1989;34(1):43–7

Motor output to the pharyngeal muscles. Bianchi AL, et al. **Prog Clin Biol Res** 1990;345:89–96; discussion 96–7

PHYSIOPATHOLOGY

Cross talk—the paradoxical transmission of a nerve impulse. Gardner WJ. **Arch Neurol** 1966 Feb;14(2):149–56

Activity of respiratory-related oropharyngeal and laryngeal motoneurones during fictive vomiting in the decerebrate cat. Grélot L, et al. **Brain Res** 1990 Apr 9;513(1):101–5

SURGERY

Intraoperative monitoring: hardware addiction is no substitute for clinical judgment [editorial] Luetje CM. **Am J Otol** 1989 Sep;10(5):338

Neurophysiologic monitoring during surgery of peripheral and cranial nerves, and in selective dorsal rhizotomy. Nelson KR, et al. **Semin Neurol** 1990 Jun;10(2):141–9 (32 ref.)

[Long-term results of microsurgical nerve reconstruction in the area of the head-neck] Hessling KH, et al. **Fortschr Kiefer Gesichtschir** 1990;35:134–8 **(Ger)**

[Microsurgery, laser-assisted cranial nerve anastomosis. An experimental study] Seifert V, et al. **Handchir Mikrochir Plast Chir** 1990 Mar;22(2):82–7 (Eng. Abstr.) **(Ger)**

CRANIAL SINUS THROMBOSIS see **SINUS THROMBOSIS**

CRANIAL SINUSES

Blood collection from the transverse sinus in the chinchilla. Boettcher FA, et al. **Lab Anim Sci** 1990 Mar;40(2):223–4

Prolactin in inferior petrosal sinuses [letter; comment] Lombardi G, et al. **Lancet** 1990 Mar 3;335(8688):538–9 Comment on: Lancet 1989 Oct 28;2(8670):1034.

MRI of intracranial sinovenous thrombosis: the role of phase imaging. Nadel L, et al. **Magn Reson Imaging** 1990; 8(3):315–20

Petrosal sinus sampling: discordant lateralization of ACTH-secreting pituitary microadenomas before and after stimulation with corticotropin-releasing hormone. Miller DL, et al. **Radiology** 1990 Aug;176(2):429–31

Lateral situated sinus pericranii. Case report. Nishio A, et al. **Surg Neurol** 1989 Nov;32(5):382–6

[Use of catheterization of the inferior petrosal sinus in the diagnosis of Cushing's disease] Rampazzo A, et al. **Medicina (Firenze)** 1989 Apr-Jun;9(2):198–200 (Eng. Abstr.) **(Ita)**

[Thromboses of the cerebral sinuses and veins in the gestational period] Deev AS. **Akush Ginekol (Mosk)** 1989 Dec;(12):51–3 (Eng. Abstr.) **(Rus)**

[Acute suppurative otitis media complicated by extradural abscess, thrombosis of the sigmoid sinus and diffuse purulent meningoencephalitis] Ibragimov GT, et al. **Vestn Otorinolaringol** 1989 Sep-Oct;(5):71–3 **(Rus)**

ABNORMALITIES

Pulsatile tinnitus and dural arteriovenous malformation. Morrison GA. **J Laryngol Otol** 1989 Nov;103(11):1073–5

Magnetic resonance imaging in lateral sinus hypoplasia and thrombosis. Mas JL, et al. **Stroke** 1990 Sep;21(9):1350–6

[Profuse auricular hemorrhage caused by lesion of the sigmoid sinus associated with arterio-sinus anastomosis] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1990 Jan-Feb;(1):80–1 **(Rus)**

[A case of an arteriosinusal anastomosis] Voronov VG, et al. **Zh Vopr Neirokhir** 1990 May-Jun;(3):33–4 **(Rus)**

ANALYSIS

Bilateral inferior petrosal sinus sampling as a routine procedure in ACTH-dependent Cushing's syndrome. McCance DR, et al. **Clin Endocrinol (Oxf)** 1989 Feb; 30(2):157–66

ANATOMY & HISTOLOGY

A study of the junction between the straight sinus and the great cerebral vein. Ghali WM, et al. **J Anat** 1989 Jun; 164:49–54

Microsurgical anatomy of the tentorial sinuses. Matsushima T, et al. **J Neurosurg** 1989 Dec;71(6):923–8

INJURIES

Superior sagittal sinus laceration complicating an autogenous calvarial bone graft harvest: report of a case. Cannella DM, et al. **J Oral Maxillofac Surg** 1990 Jul;48(7):741–3

INNERVATION

Release of sensory neuropeptides from dural venous sinuses of guinea pig. Geppetti P, et al. **Brain Res** 1990 Feb 26; 510(1):58–62

PATHOLOGY

Correlation between mastoid pneumatization and position of the lateral sinus. Shatz A, et al. **Ann Otol Rhinol Laryngol** 1990 Feb;99(2 Pt 1):142–5

Sinus pericranii: CT and MR findings. Sadler LR, et al. **J Comput Assist Tomogr** 1990 Jan-Feb;14(1):124–7

[The expert assessment of the sign of the presence of fluid in the basilar sinus in the diagnosis of drowning] Isaev IuS. **Sud Med Ekspert** 1989 Oct-Dec;32(4):35–6 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Flow quantification in the superior sagittal sinus using magnetic resonance. Mattle H, et al. **Neurology** 1990 May; 40(5):813–5

Arterio-inferior sagittal sinus fistulae: case report. Morgan MK, et al. **Neurosurgery** 1989 Dec;25(6):971–5

RADIOGRAPHY

"Pseudo-delta sign" on computed tomography in an extremely acute stage of superior sagittal sinus thrombosis—a case report. Shintani S, et al. **Angiology** 1990 May;41(5):417-20

SURGERY

Radical resection of superior sagittal sinus meningioma with venous interposition graft and reimplantation of the rolandic veins. Case report. Steiger HJ, et al. **Acta Neurochir (Wien)** 1989;100(3-4):108-11

CRANIAL SUTURES see under **SKULL**

CRANIOFACIAL DYSOSTOSIS

COMPLICATIONS

Syndrome of a craniofacial dysostosis, limb malformation, and omphalocele. Gardner RJ, et al. **Am J Med Genet** 1990 Jun;36(2):133-6

Atrophic alopecia in the Hallermann-Strieff syndrome. Grattan CE, et al. **Clin Exp Dermatol** 1989 May;14(3):250-2

[Hallermann-Streiff syndrome. A case report] Ihmaid J, et al. **Ann Dermatol Venereol** 1990;117(3):203-6 (12 ref.) **(Fre)**

[Optic atrophy in children in Pyle's craniometaphyseal dysplasia] Auclin F, et al. **Bull Soc Ophtalmol Fr** 1989 Aug-Sep;89(8-9):923-4 **(Fre)**

[Current aspects of orthodontic treatment of craniofacial stenoses] Gugny P, et al. **Orthod Fr** 1988;59 Pt 2:635-45 (16 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

An unusual case of craniofacial fibrous dysplasia presenting in early infancy. Eich GF, et al. **Pediatr Radiol** 1990; 20(6):495-8

Exophthalmus—prenatal ultrasonic features for diagnosis of Crouzon syndrome. Menashe Y, et al. **Prenat Diagn** 1989 Nov;9(11):805-8

[Congenital craniofacial malformation] Vlad P, et al. **Rev Chir [Oftalmol]** 1989 Oct-Dec;33(4):295-7 (Eng. Abstr.) **(Rum)**

EMBRYOLOGY

[Facial malformations and asymmetries caused by the first and second branchial arch syndrome] Van den Eynde H, et al. **Acta Stomatol Belg** 1989 Jun;86(1):49-65 (Eng. Abstr.) **(Dut)**

[Role of the neural crest in maxillofacial malformations: facts and hypotheses] Louryan S. **Rev Med Brux** 1989 Oct; 10(8):341-8 (55 ref.) (Eng. Abstr.) **(Fre)**

ETIOLOGY

[Etiology of the Hallerman-Streif syndrome] Krauze M, et al. **Pediatr Pol** 1989 Mar;64(3):185-6 **(Pol)**

GENETICS

Autosomal recessive form of whistling face syndrome in sibs. Dallapiccola B, et al. **Am J Med Genet** 1989 Aug; 33(4):542-4

Nager acrofacial dysostosis: autosomal dominant inheritance in mild to moderately affected mother and lethally affected phocomelic son. Hall BD. **Am J Med Genet** 1989 Jul; 33(3):394-7

Craniofrontonasal dysostosis with deafness and axillary pterygia. Michels VV, et al. **Am J Med Genet** 1989 Nov; 34(3):445-50 (17 ref.)

Germinal mosaicism in Crouzon syndrome. Kreiborg S, et al. **Hum Genet** 1990 Apr;84(5):487-8

[Molecular cytogenetic study of a 21p+ variant in a family with Crouzon syndrome] Fu SM. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Jun; 11(3):165-9 (Eng. Abstr.) **(Chi)**

[2 familial cases of cranio-metaphyseal dysostosis] Felli L, et al. **Chir Organi Mov** 1989 Jul-Dec;74(3-4):137-41 (Eng. Abstr.) **(Ita)**

[The Hallermann-Streiff syndrome in 2 generations] Gerinec A, et al. **Cesk Oftalmol** 1989 Sep;45(5):326-33 (Eng. Abstr.) **(Slo)**

PHYSIOPATHOLOGY

Analysis of craniofacial growth in Crouzon syndrome using landmark data. Richtsmeier JT, et al. **J Craniofac Genet Dev Biol** 1990;10(1):39-62

RADIOGRAPHY

Cloverleaf skull: Kleeblattschädel-deformity syndrome. Angle CR, et al. **Am J Dis Child** 1967 Aug;114(2):198-202

Extensive wormian bones in a patient with the Hallermann-Streiff syndrome. Gay CT, et al. **J Child Neurol** 1990 Jan;5(1):50-1

Dental radiographic signs characteristic to Hallermann-Streiff syndrome. Honda E, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):121-5 (19 ref.)

Craniofacial dysostosis (Crouzon's disease) associated with metaphyseal dysplasia (Pyle's disease) in the same subject. A roentgenologic study. Nardi P, et al. **Panminerva Med** 1989 Oct-Dec;31(4):192-7

Primary spondylolysis of the axis vertebra (C2) in three children, including one with pyknodysostosis. Currarino G. **Pediatr Radiol** 1989;19(8):535-8 (18 ref.)

Micromelic bone dysplasia with cloverleaf skull [letter; comment] Lachman R, et al. **Skeletal Radiol** 1989; 18(7):531-2 Comment on: Skeletal Radiol 1989;17(8):551-5.

SURGERY

Halo application in the infant. Mubarak SJ, et al. **J Pediatr Orthop** 1989 Sep-Oct;9(5):612-4

The operative treatment of isolated craniofacial dysostosis (plagiocephaly): a comparison of the unilateral and bilateral techniques. Bartlett SP, et al. **Plast Reconstr Surg** 1990 May;85(5):677-83

Surgical correction of Crouzon syndrome. David DJ, et al. **Plast Reconstr Surg** 1990 Mar;85(3):344-54

A method for repositioning the external ear. Whitaker LA, et al. **Plast Reconstr Surg** 1990 Jul;86(1):128-32

[Preliminary results of biodegradable osteosynthesis in craniofacial surgery in the child] Illi OE, et al. **Chir Pediatr** 1989;30(6):284-7 (Eng. Abstr.) **(Fre)**

[Anesthesia-reanimation for surgery of cranio-facial dysmorphism. Apropos of 23 cases of remodeling of the forehead] Domblides N, et al. **Minerva Anestesiol** 1989 Apr; 55(4):161-4 **(Fre)**

[Plastic surgery correction of combination craniofacial malformations. A survey for the obstetrician] Mühlbauer W, et al. **Geburtshilfe Frauenheilkd** 1989 Nov;49(11):931-9 (Eng. Abstr.) **(Ger)**

[Craniostenosis. Analysis of 161 cases surgically treated during the first year of life] DiRocco C, et al. **Minerva Pediatr** 1989 Aug;41(8):393-404 (Eng. Abstr.) **(Ita)**

THERAPY

Nasal continuous positive airway preasure (CPAP) therapy for obstructive sleep apnea in Hallermann-Streiff syndrome. Ryan CF, et al. **Clin Pediatr (Phila)** 1990 Feb; 29(2):122-4

CRANIOLOGY

see related
CEPHALOMETRY
CRANIOMETRY

CRANIOMETRY

see related
CEPHALOMETRY

Genetic composition and variation in Saami populations in northern Norway compared with Nordic populations in middle Norway. A study of non-metric skull variants. Iregren E, et al. **Arctic Med Res** 1988;47 Suppl 1:218-25

Head measurements. **Br J Neurosurg** 1988;2(1):123-4

Cranial thickness of modern and neolithic populations in Japan. Ishida H, et al. **Hum Biol** 1990 Jun;62(3):389-401

Independent instances of "souvenir" Asian skulls from the Tampa Bay area. Wienker CW, et al. **J Forensic Sci** 1990 May;35(3):637-43

[Vectorial description of the horizontal craniogram] Pesce Delfino V, et al. **Boll Soc Ital Biol Sper** 1990 Mar; 66(3):201-8 (Eng. Abstr.) **(Ita)**

HISTORY

[The historical problem of skull morphology—several scientific theoretical aspects] Kaiser UT, et al. **Anat Anz** 1990;170(5):323-8 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Development of equipment for the standardization of skull photographs in personal identifications by photographic superimposition. Brocklebank LM, et al. **J Forensic Sci** 1989 Sep;34(5):1214-21

[Skull identification. Historical overview and practical use] Grüner O. **Arch Kriminol** 1989 Jul-Aug;184(1-2):1-16 **(Ger)**

METHODS

Discontinuous traits of the skull: variations on sex, age, laterality. Brasili-Gualandi P, et al. **Anthropol Anz** 1989 Sep;47(3):239-50

Evidence of differential growth in the human skull from sagittal and transversal deviations of landmarks. Hauser G, et al. **Anthropol Anz** 1989 Sep;47(3):229-37

[Plastic facial reconstruction as a possibility for identifying unknown skulls (I). An evaluation of the reliability of the reconstruction technic by a double-blind trial] Helmer R, et al. **Arch Kriminol** 1989 Sep-Oct;184(3-4):75-83 **(Ger)**

[Evaluation of skull vault asymmetry using methods of analytical morphometry] Pesce Delfino V, et al. **Boll Soc Ital Biol Sper** 1990 May;66(5):405-11 (Eng. Abstr.) **(Ita)**

CRANIOPHARYNGIOMA

Nasopharyngeal craniopharyngioma. Case report and literature review. Byrne MN, et al. **Ann Otol Rhinol Laryngol** 1990 Aug;99(8):633-9 (34 ref.)

Correlation of clinical and pathological features in surgically treated craniopharyngiomas. Adamson TE, et al. **J Neurosurg** 1990 Jul;73(1):12-7

COMPLICATIONS

Diencephalic syndrome of emaciation in an adult associated with a suprasellar craniopharyngioma—a case report. Sharma RR, et al. **Br J Neurosurg** 1990;4(1):77-80

Periodic fever: an unusual manifestation of a recurrent Rathke's cleft [letter] Van Hilten BJ, et al. **J Neurol Neurosurg Psychiatry** 1990 Jun;53(6):533

[Syndromes of cerebral circulatory disorder in the anterior cerebral artery basin in the early postoperative period in tumors with a mediobasal localization] Dziubanova NA, et al. **Zh Vopr Neirokhir** 1990 Mar-Apr;(2):16-9 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Magnetic resonance imaging and computed tomography of an intraventricular craniopharyngioma. Sacher M, et al. **Clin Imaging** 1990 May;14(2):116-9

Bright lesions on sellar/parasellar T1-weighted scans. Yousem DM, et al. **Clin Imaging** 1990 May;14(2):99-105

MR appearance and cyst content of Rathke cleft cysts. Asari S, et al. **J Comput Assist Tomogr** 1990 Jul-Aug;14(4):532-5

Cerebellopontine angle craniopharyngioma. Gökalp HZ, et al. **Neurochirurgia (Stuttg)** 1990 Jan;33(1):20-1 (16 ref.)

Symptomatic Rathke's cleft cyst simulating arachnoid cyst—case report. Onda K, et al. **Neurol Med Chir (Tokyo)** 1989 Nov;29(11):1039-43 (15 ref.)

Intraventricular craniopharyngioma: its characteristics in magnetic resonance imaging and successful total removal. Fukushima T, et al. **Surg Neurol** 1990 Jan;33(1):22-7 (15 ref.)

[Rhinopharyngeal craniopharyngioma. CT X-ray and MRI aspects] Pharaboz C, et al. **J Radiol** 1989 Oct;70(10):573-5 (Eng. Abstr.) **(Fre)**

[Magnetic resonance imaging in the follow-up of craniopharyngioma surgically treated (letter)] Noel-Wekstein S, et al. **Presse Med** 1990 Jan 6-13;19(1):32 **(Fre)**

[Erdheim's tumors in adults—diagnosis, treatment and therapeutic results] Marchel A, et al. **Neurol Neurochir Pol** 1989 Jan;23(1):35-40 (Eng. Abstr.) **(Pol)**

[Craniopharyngioma of the cavum: report of a case] Mozota Ortiz JR, et al. **Acta Otorrinolaringol Esp** 1988 Mar-Apr; 39(2):119-21 (3 ref.) (Eng. Abstr.) **(Spa)**

PATHOLOGY

Pathological changes in cystic craniopharyngiomas following intracavital 90yttrium treatment. Szeifert GT, et al. **Acta Neurochir (Wien)** 1990;102(1-2):14-8

Rosenthal fibres: an immunohistochemical, ultrastructural and immunoelectron microscopic study. Dinda AK, et al. **Acta Neuropathol (Berl)** 1990;79(4):456-60

Three cases of craniopharyngioma showing optic tract hypersignal on MRI. Youl BD, et al. **Neurology** 1990 Sep; 40(9):1416-9

Craniopharyngioma with extension into the cerebellopontine angle. Case report. Shimada M, et al. **Tokai J Exp Clin Med** 1989 Apr;14(2):113-6 (16 ref.)

[Histological diagnosis of brain tumors: (10). Craniopharyngioma] Kubo T, et al. **No Shinkei Geka** 1990 Mar;18(3):227-31 (12 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Triphasic waves and cerebral tumors. Aguglia U, et al. **Eur Neurol** 1990;30(1):1-5

RADIOGRAPHY

[CT scan and clinical diagnosis of parasellar lesions—analysis of 91 cases] Tan FL. **Chung Hua Chung Liu Tsa Chih** 1989 Jul;11(4):291-3 (Eng. Abstr.) **(Chi)**

RADIOTHERAPY

Megavoltage external beam irradiation of craniopharyngiomas: analysis of tumor control and morbidity. Flickinger JC, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul;19(1):117-22

The role of radiation therapy in the management of childhood craniopharyngioma. Weiss M, et al. **Int J Radiat Oncol Biol Phys** 1989 Dec;17(6):1313-21 (41 ref.)

Visual outcome in cystic craniopharyngiomas treated with intracavitary phosphorus-32. Anderson DR, et al. **Ophthalmology** 1989 Dec;96(12):1786-92

SURGERY

Surgery of large retrochiasmatic craniopharyngiomas in children. Ammirati M, et al. **Childs Nerv Syst** 1990 Jan; 6(1):13-7

Late effects associated with treatment of craniopharyngiomas in childhood. Shiminski-Maher T, et al. **J Neurosci Nurs** 1990 Aug;22(4):220-6

Presentation and management of suprasellar arachnoid cysts. Review of 20 cases. Pierre-Kahn A, et al. **J Neurosurg** 1990 Sep;73(3):355-9

Total removal of craniopharyngiomas. Approaches and

long-term results in 144 patients. Yaşargil MG, et al. **J Neurosurg** 1990 Jul;73(1):3–11

Intraventricular craniopharyngioma. Clinical and surgical considerations. Ferrara M, et al. **J Neurosurg Sci** 1989 Apr–Jun;33(2):161–4

Abnormal food-seeking behavior after surgery for craniopharyngioma. Skorzewska A, et al. **Neuropsychobiology** 1989;21(1):17–20

Visual outcome after craniopharyngioma [letter; comment] Mutlukan E, et al. **Ophthalmology** 1990 May;97(5):539–40 Comment on: Ophthalmology 1989 Feb;96(2):195–9.

Lesions of Rathke's duct: another indication for the infratemporal fossa approach. Herzog J, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):302–8

Management of craniopharyngiomas in children. Tomita T. **Pediatr Neurosci** 1988;14(4):204–11 (58 ref.)

[Trans-sphenoid microsurgery of craniopharyngioma] Stolke D, et al. **Neurochirurgia (Stuttg)** 1990 Jul;33(4):106–9 (Eng. Abstr.) **(Ger)**

[Interhemispheric, trans-lamina terminalis approach for craniopharyngioma] Asano T. **No Shinkei Geka** 1989 Sep; 17(9):799–812 **(Jpn)**

[A case of pulmonary embolism with diabetes insipidus developed after removal of craniopharyngioma] Takamura Y, et al. **No Shinkei Geka** 1990 Feb;18(2):199–203 (Eng. Abstr.) **(Jpn)**

[The puncture treatment of cystic craniopharyngiomas under ultrasonographic control] Rumiantsev BV, et al. **Zh Vopr Neirokhir** 1990 May–Jun;(3):34–5 **(Rus)**

THERAPY

Craniopharyngiomas in children. Long-term effects of conservative surgical procedures combined with radiation therapy. Fischer EG, et al. **J Neurosurg** 1990 Oct; 73(4):534–40

CRANIOSYNOSTOSES

Third case of Pfeiffer-type cardiocranial syndrome. Stratton RF, et al. **Am J Med Genet** 1989 Dec;34(4):587–8

Unknown syndrome: congenital heart disease, ptosis, hypodontia, and craniosynostosis. Mehta L, et al. **J Med Genet** 1989 Oct;26(10):664–5

COMPLICATIONS

Disseminated porokeratosis in an infant with craniosynostosis. Judge MR, et al. **Br J Dermatol** 1990 Aug; 123(2):249–54

Craniofacial growth disturbance after skull base and associated suture synostoses in the newborn chacma baboon: a preliminary report. Büttow KW. **Cleft Palate J** 1990 Jul;27(3):241–51; discussion 251–2

Lacrimal gland prolapse in craniosynostosis syndromes and poor function congenital ptosis. Jordan DR, et al. **Ophthalmic Surg** 1990 Feb;21(2):97–101

DIAGNOSIS

Craniosynostosis, agenesis of the corpus callosum, serve mental retardation, distinctive facies, camptodactyly, and hypogonadism. Lin AE, et al. **Am J Med Genet** 1990 Apr; 35(4):582–5

[Developmental disorders resembling Apert syndrome in a 2-year-old girl] Karkowski MK. **Pediatr Pol** 1989 May; 64(5):323–6 **(Pol)**

EPIDEMIOLOGY

A population-based study of craniosynostosis. French LR, et al. **J Clin Epidemiol** 1990;43(1):69–73

[Incidence of craniostenosis in data from the pediatric neurologic department with emphasis on children of gypsy origin] Králík M, et al. **Cesk Neurol Neurochir** 1989 Sep; 52(5):343–7 (Eng. Abstr.) **(Slo)**

ETIOLOGY

Craniosynostosis in the Ullrich-Turner syndrome [letter] Cohen MM Jr. **Am J Med Genet** 1990 Feb;35(2):289–90

GENETICS

Craniosynostosis in an infant with an interstitial deletion of 15q [46,XY,del(15)(q15q22.1)]. Fukushima Y, et al. **Am J Med Genet** 1990 Jun;36(2):209–13

HISTORY

Enlarged parietal foramina and craniosynostosis in an American Indian child [letter] Mann RW. **AJR Am J Roentgenol** 1990 Mar;154(3):658

PATHOLOGY

Long-term follow-up on a case of untreated trigonocephaly. Ousterhout DK, et al. **Cleft Palate J** 1990 Jan;27(1):72–5

PSYCHOLOGY

Effects of craniofacial birth defects on maternal functioning postinfancy. Speltz ML, et al. **J Pediatr Psychol** 1990 Apr; 15(2):177–96

[Premature craniosynostosis is related to increased criminal behavior in adolescence] Fehlow P. **Arztl Jugendkd** 1989; 80(4):215–9 (20 ref.) (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Cloverleaf skull: Kleeblattschädel-deformity syndrome. Angle CR, et al. **Am J Dis Child** 1967 Aug;114(2):198–202

Evaluation of craniosynostosis with three-dimensional CT imaging. Parisi M, et al. **J Comput Assist Tomogr** 1989 Nov–Dec;13(6):1006–12

Craniosynostosis: image quality, confidence, and correctness in diagnosis. Pilgram TK, et al. **Radiology** 1989 Dec; 173(3):675–9

Craniosynostosis: diagnostic value of three-dimensional CT reconstruction. Vannier MW, et al. **Radiology** 1989 Dec; 173(3):669–73

SURGERY

External cranial vault molding after craniofacial surgery. Persing JA, et al. **Ann Plast Surg** 1986 Oct;17(4):274–83

Craniosynostosis and the paediatrician [editorial] Hayward R. **Arch Dis Child** 1990 Jun;65(6):568

Surgical management of craniosynostosis. Hockley AD, et al. **Br J Neurosurg** 1988;2(3):307–13 (11 ref.)

Early surgical management of coronal synostosis. Laurent JP, et al. **Clin Plast Surg** 1990 Jan;17(1):183–7 (25 ref.)

Vacuum-stiffened beanbag for cranial remodeling procedures in modified prone position. Technical note. Park TS, et al. **J Neurosurg** 1989 Oct;71(4):623–5

Treatment of bilateral coronal synostosis in infancy: a holistic approach. Persing JA, et al. **J Neurosurg** 1990 Feb; 72(2):171–5

Floating C-shaped orbital osteotomy for orbital rim advancement in craniosynostosis: preliminary report. Persing JA, et al. **J Neurosurg** 1990 Jan;72(1):22–6

Delayed and progressive multiple suture craniosynostosis. Reddy K, et al. **Neurosurgery** 1990 Mar;26(3):442–8

Modifications in the surgical correction of trigonocephaly. Sadove AM, et al. **Plast Reconstr Surg** 1990 Jun;85(6):853–8

Craniosynostosis. Persing JA, et al. **Semin Neurol** 1989 Sep; 9(3):200–9 (57 ref.)

[Craniosynostoses in Egypt: clinical forms and treatment methods. A study of 55 surgically treated patients] Gheita A, et al. **Ann Chir Plast Esthet** 1989;34(5):411–6 (Eng. Abstr.) **(Fre)**

[Early resection of the orbital band in coronal craniostenosis] Santini JJ, et al. **Neurochirurgie** 1989;35(3):196–9 (Eng. Abstr.) **(Fre)**

[The subperiosteal subtemporal approach in the surgical treatment of craniostenosis. Apropos of 9 cases] Labbé D, et al. **Rev Stomatol Chir Maxillofac** 1990;91(3):228–32 (Eng. Abstr.) **(Fre)**

[Overview of the classification and treatment of premature craniosynostosis. On the development of encephalocele following surgery of craniostenosis] Mattigk G. **Kinderarztl Prax** 1989 Sep;57(9):429–33 (Eng. Abstr.) **(Ger)**

[Autotransfusion technic in surgery of craniostenoses in children] Paccagnella F, et al. **Minerva Anestesiol** 1989 Apr;55(4):165–8 (Eng. Abstr.) **(Ita)**

[Metopic craniosynostosis. Surgical results in 35 surgically treated cases under 1 year of age] Di Rocco C, et al. **Minerva Pediatr** 1989 Nov;41(11):559–64 (12 ref.) (Eng. Abstr.) **(Ita)**

[Craniostenosis. Analysis of 161 cases surgically treated during the first year of life] DiRocco C, et al. **Minerva Pediatr** 1989 Aug;41(8):393–404 (Eng. Abstr.) **(Ita)**

CRANIOTOMY

Changes of blood pressure and cerebral arterio-venous oxygen content differences (AVDO2) with and without bupivacaine scalp infiltration during craniotomy. Engberg M, et al. **Acta Anaesthesiol Scand** 1990 Jul;34(5):346–9

The cerebral arterio-venous oxygen content differences (AVDO2) during halothane and neurolept anaesthesia in patients subjected to craniotomy. Engberg M, et al. **Acta Anaesthesiol Scand** 1989 Nov;33(8):642–6

Craniotomy drains and bradycardias [letter] Stokes DN, et al. **Anaesthesia** 1990 Jun;45(6):495–6

Preoperative and intraoperative echocardiography to detect right-to-left shunt in patients undergoing neurosurgical procedures in the sitting position. Black S, et al. **Anesthesiology** 1990 Mar;72(3):436–8

Failure of preoperative echo testing to prevent paradoxical air embolism: report of two cases. Cucchiara RF, et al. **Anesthesiology** 1989 Oct;71(4):604–7

Corpus callosum stimulation and stereotactic callosotomy in the management of refractory generalized epilepsy. Preliminary communication. Marino Júnior R, et al. **Arq Neuropsiquiatr** 1989 Sep;47(3):320–5

Preoperative beta-blockade for patients undergoing craniotomy: a comparison between propranolol and atenolol. Allberry RA, et al. **Can J Anaesth** 1990 May;37(4 Pt 1):448–51

Scalp infiltration with bupivacaine in paediatric brain surgery. Hartley E, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S129

Narcotic infusions facilitate emergence following neurosurgery: a double blind comparison of fentanyl and alfentanil infusions. Mutch WA, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S30

Anticonvulsant therapy increases fentanyl requirements during anaesthesia for craniotomy. Tempelhoff R, et al. **Can J Anaesth** 1990 Apr;37(3):327–32

Recurrent hematomas following craniotomy for traumatic intracranial mass. Bullock R, et al. **J Neurosurg** 1990 Jan; 72(1):9–14

Postoperative CT contrast enhancement following lobectomy for epilepsy. Laohaprasit V, et al. **J Neurosurg** 1990 Sep; 73(3):392–5

Influence of intraoperative antibiotic choice on the incidence of early postcraniotomy seizures. Michenfelder JD, et al. **J Neurosurg** 1990 May;72(5):703–5

The craniofacial resection—eleven-year experience at the University of Virginia: problems and solutions. Levine PA, et al. **Otolaryngol Head Neck Surg** 1989 Dec;101(6):665–9

Meninges: benign postoperative enhancement on MR images. Burke JW, et al. **Radiology** 1990 Jan;174(1):99–102

Cranial postoperative site: assessment with contrast-enhanced MR imaging. Elster AD, et al. **Radiology** 1990 Jan;174(1):93–8

Effect of cloxacillin prophylaxis on the bacterial flora of craniotomy wounds. van Ek B, et al. **Scand J Infect Dis** 1990;22(3):345–52

[Infusion or repetitive bolus injection? A clinical study of midazolam/fentanyl and diazepam/fentanyl combination anesthesia in neurosurgical operations] Mair P, et al. **Anasth Intensivther Notfallmed** 1990 Jan;25 Suppl 1:34–8 (Eng. Abstr.) **(Ger)**

[Operation for brain metastases in the elderly patient] Schneider T. **Klin Wochenschr** 1990 Jun 5;68(11):576–80 (Eng. Abstr.) **(Ger)**

[Acute post-traumatic subdural hematoma in advanced age] Gabl M, et al. **Unfallchirurgie** 1989 Dec;15(6):273–8 (Eng. Abstr.) **(Ger)**

[The effect of craniotomy on lymphocyte subpopulations] Hori Y, et al. **Masui** 1990 Jan;39(1):75–80 (Eng. Abstr.) **(Jpn)**

[Automated image processing by PACS as a simple tool for designing craniotomy; synthesis of sagittal reconstructed CT images and cerebral angiograms] Kikuchi K, et al. **No Shinkei Geka** 1990 Apr;18(4):355–60 (Eng. Abstr.) **(Jpn)**

[Acute interhemispheric subdural hematoma: a case report with good result by small craniotomy during the chronic stage] Nagasawa S, et al. **No Shinkei Geka** 1990 Jul; 18(7):643–6 (Eng. Abstr.) **(Jpn)**

[Supratentorial craniotomy of the cisternal clot removal in cases with ruptured aneurysms in the posterior fossa] Niwa J, et al. **No Shinkei Geka** 1990 Apr;18(4):385–9 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Early postoperative seizures after posterior fossa surgery. Lee ST, et al. **J Neurosurg** 1990 Oct;73(4):541–4

A hazard of craniotomy in the sitting position: the posterior compartment syndrome of the thigh. Case report. Poppi M, et al. **J Neurosurg** 1989 Oct;71(4):618–9

Prophylactic Anticonvulsants for Prevention of Immediate and Early Postcraniotomy Seizures [letter] Horwitz NH. **Surg Neurol** 1989 Nov;32(5):398

[A case of epidural hematoma occurring on the opposite site of craniotomy after clipping surgery performed on internal carotid giant aneurysm] Yuki K, et al. **No Shinkei Geka** 1990 Jun;18(6):567–70 (Eng. Abstr.) **(Jpn)**

METHODS

Surgical anatomy of the internal auditory canal. A temporal bone dissection study. Laine T, et al. **Acta Otolaryngol (Stockh)** 1990 Jul–Aug;110(1–2):78–84

A simple and accurate aiming-device for the surgical approach of small superficial brain lesions. de Backere AC. **Br J Neurosurg** 1989;3(3):327–31

The surgical correction of fronto-ethmoidal meningo-encephaloceles. Lello GE, et al. **J Craniomaxillofac Surg** 1989 Oct;17(7):293–8

Reconstruction of the temporalis muscle for the pterional craniotomy. Technical note. Spetzler RF, et al. **J Neurosurg** 1990 Oct;73(4):636–7

Total cranial vault reconstruction for parietal encephalocele. Berman DE, et al. **Plast Reconstr Surg** 1990 Sep;86(3):554–7

Treatment of right hemispheric cerebral infarction by hemicraniectomy. Delashaw JB, et al. **Stroke** 1990 Jun; 21(6):874–81

Unilateral extradural approach for bilateral optic canal release in a patient with fibrous dysplasia. Saito K, et al. **Surg Neurol** 1990 Aug;34(2):124–8

Experimental evaluation of the net "Dallop" covered with collagen as the dural substitute. Harat M, et al. **Zentralbl Neurochir** 1989;50(3–4):145–8

[Frontobasal osteoplastic orbitotomy in surgical treatment of intraorbital processes] Markakis E, et al. **Neurochirurgia (Stuttg)** 1990 May;33(3):73–7 (Eng. Abstr.) **(Ger)**

[New operative approach to the frontal base. Extensive transbasal approach] Kawakami K, et al. **Neurol Med Chir (Tokyo)** 1989 Oct;29(10):885–9 (Eng. Abstr.) **(Jpn)**

[Skull base approaches for clival tumors] Kawase T. **No Shinkei Geka** 1990 Feb;18(2):121–8 **(Jpn)**

CRANIUM see **SKULL**

CRATAEGUS see **PLANTS, MEDICINAL**

CRAYFISH

Unexpected divergence among identified interneurons in different abdominal segments of the crayfish Procambarus clarkii. Larimer JL, et al. **J Exp Zool** 1990 Jan;253(1):20–9

Secondary structure of a crustacean neuropeptide hormone family by means of CD. Huberman A, et al. **Peptides** 1989 Sep–Oct;10(5):1113–5

Effect of alkaline treatment ('akanwu') and supplementary value of corn or crayfish on the protein quality of breadfruit (Treculia Africana). Nzomiwu NR. **Plant Foods Hum Nutr** 1990 Apr;40(2):99–105

ANALYSIS

Effect of environs and seasonality on metal residues in tissues of wild and pond-raised crayfish in southern Louisiana. Finerty MW, et al. **Arch Environ Contam Toxicol** 1990 Jan–Feb;19(1):94–100

Spectral properties of porphyropsin from an invertebrate. Zeiger J, et al. **Vision Res** 1989;29(5):519–27

ANATOMY & HISTOLOGY

Nontopographic projection of olfactory sensory neurons in the crayfish brain. Mellon D Jr, et al. **J Comp Neurol** 1990 Jun 8;296(2):253–62

GABA-ergic neurons in the crayfish nervous system: an immunocytochemical census of the segmental ganglia and stomatogastric system. Mulloney B, et al. **J Comp Neurol** 1990 Jan 15;291(3):383–94

Extraretinal photoreceptors in the brain of the crayfish Cherax destructor. Sandeman DC, et al. **J Neurobiol** 1990 Jun;21(4):619–29

DRUG EFFECTS

Chronic effects of arsenic on American red crayfish, Procambarus clarkii, exposed to monosodium methanearsonate (MSMA) herbicide. Naqvi SM, et al. **Bull Environ Contam Toxicol** 1990 Jul;45(1):101–6

[The transformation of the receptor potential of mechanosensitive neurons in the crayfish with the intracellular injection of solutions under pressure] Shcheĭnikov NA, et al. **Neirofiziologiia** 1990;22(3):388–91 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Expression of engrailed during segmentation in grasshopper and crayfish. Patel NH, et al. **Development** 1989 Oct; 107(2):201–12

GENETICS

Repetitive DNA sequence from the crayfish Procambarus clarkii. Fuchs LY, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1650

GROWTH & DEVELOPMENT

Post-embryonic development of rectifying electrical synapses in the crayfish: ultrastructure. Leitch B, et al. **J Neurocytol** 1989 Dec;18(6):749–61

METABOLISM

A laboratory study of the copper and nickel uptake and regulation in a copper-tolerant decapod, Cambarus bartoni (Fabricius) (Decapoda, Crustacea). Zia S, et al. **Arch Int Physiol Biochim** 1989 Jun;97(3):211–9

Survey of persistent pesticide residues in the edible tissues of wild and pond-raised Louisiana crayfish and their habitat. Madden JD, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):779–84

Arsenic uptake and depuration by red crayfish, Procambarus clarkii, exposed to various concentrations of monosodium methanearsonate (MSMA) herbicide. Naqvi SM, et al. **Bull Environ Contam Toxicol** 1990 Jul;45(1):94–100

The effect of two sulphur-containing pesticides, fenitrothion and endosulfan, on glutathione (GSH) content and on GSH S-transferase and gamma-glutamyl transpeptidase activities in midgut gland of the American red crayfish Procambarus clarkii. Blat A, et al. **Drug Metabol Drug Interact** 1988; 6(3–4):383–94

Characterization of DHP binding protein in crayfish striated muscle. Krizanova O, et al. **FEBS Lett** 1990 Jul 16; 267(2):311–5

Purification and characterization of a beta-1,3-glucan binding protein from plasma of the crayfish Pacifastacus leniusculus. Duvic B, et al. **J Biol Chem** 1990 Jun 5; 265(16):9327–32

Substance P antibody reveals homologous neurons with axon terminals among somata in the crayfish and crab brain. Sandeman RE, et al. **J Comp Neurol** 1990 Apr 22; 294(4):569–82

Postsynaptic fall in intracellular pH and increase in surface pH caused by efflux of formate and acetate anions through GABA-gated channels in crayfish muscle fibres. Mason MJ, et al. **Neuroscience** 1990;34(2):359–68

PHYSIOLOGY

The paraneuronal nature of neurons: nonspiking communication in the crayfish central nervous system. Hisada M. **Arch Histol Cytol** 1989;52 Suppl:139–46 (26 ref.)

Similarities between the effects of lindane (gamma-HCH) and picrotoxin on ligand-gated chloride channels in crayfish muscle membrane. Zufall F, et al. **Brain Res** 1989 Dec 4;503(2):342–5

Effect of temperature on long-term survival of anucleate giant axons in crayfish and goldfish. Blundon JA, et al. **J Comp Neurol** 1990 Jul 15;297(3):377–91

Modulation of crayfish retinal sensitivity by 5-hydroxytryptamine. Aréchiga H, et al. **J Exp Biol** 1990 May;150:123–43

Dual motor output interneurons in the abdominal ganglia of the crayfish Procambarus clarkii: synaptic activation of motor outputs in both the swimmeret and abdominal positioning systems by single interneurons. Murchison D, et al. **J Exp Biol** 1990 May;150:269–93

Stretch-activated current through single ion channels in the abdominal stretch receptor organ of the crayfish. Erxleben C. **J Gen Physiol** 1989 Dec;94(6):1071–83

Regeneration of an identifiable motoneuron in the crayfish. I. Patterns of reconnection and synaptic strength established in normal and altered target areas. Hunt WP, et al. **J Neurobiol** 1989 Dec;20(8):703–17

Regeneration of an identifiable motoneuron in the crayfish. II. Patterns of reconnection and synaptic strength established in the presence of an extra nerve. Hunt WP, et al. **J Neurobiol** 1989 Dec;20(8):718–30

Synaptic connections between motor neurons and interneurons in the fourth thoracic ganglion of the crayfish, Procambarus clarkii. Chrachri A, et al. **J Neurophysiol** 1989 Dec;62(6):1237–50

Conjoint action of phosphatidylinositol and adenylate cyclase systems in serotonin-induced facilitation at the crayfish neuromuscular junction. Dixon D, et al. **J Neurophysiol** 1989 Dec;62(6):1251–9

Kinematic analysis of the defense response in crayfish. Kelly TM, et al. **J Neurophysiol** 1990 Jul;64(1):64–76

Fictive locomotion in the fourth thoracic ganglion of the crayfish, Procambarus clarkii. Chrachri A, et al. **J Neurosci** 1990 Mar;10(3):707–19

Adenylate cyclase system is essential for long-term facilitation at the crayfish neuromuscular junction. Dixon D, et al. **J Neurosci** 1989 Dec;9(12):4246–52

Argiopine blocks glutamate-activated single-channel currents on crayfish muscle by two mechanisms. Antonov SM, et al. **J Physiol (Lond)** 1989 Dec;419:569–87

Central control of the sensory afferent terminals from a leg chordotonal organ in crayfish in vitro preparation. Cattaert D, et al. **Neurosci Lett** 1990 Jan 1;108(1–2):81–7

Pericardial peptides enhance synaptic transmission and tension in phasic extensor muscles of crayfish. Mercier AJ, et al. **Neurosci Lett** 1990 Mar 26;111(1–2):92–8

Quantal stores of excitatory transmitter in nerve–muscle synapses of crayfish evaluated from high-frequency asynchronous quantal release induced by veratridine or high concentrations of potassium. Finger W, et al. **Pflugers Arch** 1989 Aug;414(4):437–42

The effect of carbon monoxide on the function of a crustacean sensory receptor is no different to the effect of hypoxia. Parsons DW, et al. **Res Commun Chem Pathol Pharmacol** 1990 Feb; 67(2):229–40

Oxygen-sensitive chemoreceptors in the branchio-cardiac veins of the crayfish, Astacus leptodactylus. Ishii K, et al. **Respir Physiol** 1989 Oct;78(1):73–81

[The crayfish Procambarus cubensis—a new laboratory animal for physiological research] Shuranova ZhP, et al. **Zh Evol Biokhim Fiziol** 1990 Jan–Feb;26(1):139–42 **(Rus)**

CRD 401 see **DILTIAZEM**

CREATINE

Influence of creatine, amino acids and water on the formation of the mutagenic heterocyclic amines found in cooked meat. Overvik E, et al. **Carcinogenesis** 1989 Dec; 10(12):2293–301

ANALYSIS

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain. Carter AJ, et al. **J Chromatogr** 1990 Apr 27;527(1):31–9

[Significance of creatine analysis in clinical tests] Yokota T, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:407–9 **(Jpn)**

BLOOD

Phosphocreatine as a possible modulator of the adenylate pool. Ronca G, et al. **Adv Exp Med Biol** 1989;253B:99–106

Enzymatic erythrocyte creatine determinations as an index for cell age. Buysse AM, et al. **Clin Chim Acta** 1990 Feb 28;187(2):155–62

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection. Werner G, et al. **J Chromatogr** 1990 Feb 23; 525(2):265–75

DEFICIENCY

Myocardial adaptation to creatine deficiency in rats fed with beta-guanidinopropionic acid, a creatine analogue. Mekhfi H, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1151–8

METABOLISM

Amniotic fluid creatinine. Pitkin RM, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1135–9

Linear dependence of muscle phosphocreatine kinetics on total creatine content. Meyer RA. **Am J Physiol** 1989 Dec; 257(6 Pt 1):C1149–57

Direct determination of creatine kinase equilibrium constants with creatine or cyclocreatine substrate. LoPresti P, et al. **Biochim Biophys Acta** 1989 Oct 19;998(3):317–20

PHARMACOLOGY

Effects of creatine on synthesis and release of gamma-[3H]aminobutyric acid. Schultheiss K, et al. **J Neurochem** 1990 Jun;54(6):1858–63

URINE

Determination of estriol and creatinine in urine by high performance liquid chromatography. Ke L, et al. **Biomed Chromatogr** 1989 Sep;3(5):196–8

Protein/creatinine ratio in random urine specimens for quantitation of proteinuria in preeclampsia. Jaschevatzky OE, et al. **Obstet Gynecol** 1990 Apr;75(4):604–6

CREATINE KINASE

ANALYSIS

Assay of creatine kinase in microtiter plates using thio-NAD to allow monitoring at 405 nM. Florini JR. **Anal Biochem** 1989 Nov 1;182(2):399–404

Decreased storage stability of creatine kinase in a cardiac reperfusion solution. Dunphy G, et al. **Clin Chem** 1990 May; 36(5):778–80

Phosphagen kinase evolution. Expression in echinoderms. Ratto A, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):195–203

Immunological determination of the oligomeric form of mitochondrial creatine kinase in situ. Quemeneur E, et al. **FEBS Lett** 1990 Mar 26;262(2):275–8

Two different B-type creatine kinase subunits dimerize in a tissue-specific manner. Quest AF, et al. **FEBS Lett** 1990 Mar 26;262(2):299–304

Changes in ventricular creatine-kinase with progression and regression of cardiac hypertrophy in hypertensive rats. Pauletto P, et al. **J Hypertens Suppl** 1989 Dec;7(6):S94–5

Enzyme release from chick myocytes during hypoxia and reoxygenation: dependence on pH. Bhatti S, et al. **J Mol Cell Cardiol** 1989 Oct;21(10):995–1008

Creatine kinase: race-gender differences in patients hospitalized for suspected myocardial infarction. Cook JC, et al. **J Natl Med Assoc** 1990 Apr;82(4):249–54 (40 ref.)

Enzyme kinetics and relaxation measurements with surface coils. Clarke GD, et al. **Magn Reson Med** 1990 Jun; 14(3):522–9

Effects of exercise on skeletal muscle and serum enzyme activities in pigs. Doizé F, et al. **Vet Res Commun** 1989; 13(5):341–7

ANTAGONISTS & INHIBITORS

Inhibition of creatine kinase activity by ethylene oxide. Matsuoka M, et al. **Br J Ind Med** 1990 Jan;47(1):44–7

BIOSYNTHESIS

Induction of a cellular enzyme for energy metabolism by transforming domains of adenovirus E1a. Kaddurah-Daouk R, et al. **Mol Cell Biol** 1990 Apr;10(4):1476–83

BLOOD

Cardiac enzyme changes in elderly fallers. Swain DG, et al. **Age Ageing** 1990 May;19(3):207–11

The prognostic significance of immunoradiometric CK-MB assay (IRMA) diagnosis of myocardial infarction in patients with low total CK and elevated MB isoenzymes. Clyne CA, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):901–6

Enzyme changes following direct current countershock. Hunt D, et al. **Am Heart J** 1968 Sep;76(3):340–4

Rapid enzyme measurements in patients with suspected acute myocardial infarction [letter; comment] Kimmelstiel C, et al. **Am J Cardiol** 1989 Oct 1;64(12):834 Comment on: Am J Cardiol 1989 Mar 15;63(11):652–5.

An increase in serum creatine kinase concentration due to variant creatine kinase during preterm labor [letter] Harioka T, et al. **Anesthesiology** 1990 Jan;72(1):210–1

Latent myotonic dystrophy: the cause of hydramnios and an increase in serum creatine kinase concentration [letter] Harioka T, et al. **Anesthesiology** 1990 Sep;73(3):578–9

Application of the regression coefficient to timed serial serum creatine kinase measurements in the early diagnosis of myocardial infarction. Rutty G, et al. **Ann Clin Biochem** 1989 Nov;26 (Pt 6):558–9

The effect of exercise on canine dystrophic muscle. Valentine BA, et al. **Ann Neurol** 1989 Oct;26(4):588

Screening for Duchenne muscular dystrophy. Smith RA, et al. **Arch Dis Child** 1989 Jul;64(7):1017–21

ATP: creatine phosphotransferase in the diagnosis of acute chest pain. Griffiths PD. **Br Heart J** 1966 Mar; 28(2):199–203

CPK levels and neuroleptic malignant syndrome [letter; comment] James S. **Br J Psychiatry** 1989 Oct;155:567 Comment on: Br J Psychiatry 1989 Jun;154:885–6.

Neuroleptic malignant syndrome [letter; comment]

McCarthy A. **Br J Psychiatry** 1989 Jul;155:127 Comment on: Br J Psychiatry 1989 Jan;154:102–4.

CPK levels and neuroleptic malignant syndrome [letter; comment] [see comments] Maharajh HD. **Br J Psychiatry** 1989 Jun;154:885–6 Comment on: Br J Psychiatry 1989 Jan;154:102–4. Comment in: Br J Psychiatry 1989 Oct;155:567.

Training volume, androgen use and serum creatine kinase activity. Häkkinen K, et al. **Br J Sports Med** 1989 Sep; 23(3):188–9

Hypocalcemic hyper–CK–emia in hypoparathyroidism. Ishikawa T, et al. **Brain Dev** 1990;12(2):249–52 (12 ref.)

Induction of the heat shock response in rats modulates heart rate, creatine kinase and protein synthesis after a subsequent hyperthermic treatment. Currie RW, et al. **Cardiovasc Res** 1990 Feb;24(2):87–93

Optimised function for determining time to peak creatine kinase and creatine kinase–MB as non–invasive reperfusion indicators after thrombolytic therapy in acute myocardial infarction. Schwerdt H, et al. **Cardiovasc Res** 1990 Apr; 24(4):328–34

Complete recovery in plasma of enzymes lost from the heart after permanent coronary artery occlusion in the dog [see comments] Hermens WT, et al. **Circulation** 1990 Feb; 81(2):649–59 Comment in: Circulation 1990 Feb;81(2):707–10.

Enzymatic estimation of infarct size. Thrombolysis induced its demise: will it now rekindle its renaissance? [comment] Roberts R. **Circulation** 1990 Feb;81(2):707–10 Comment on: Circulation 1990 Feb;81(2):649–59.

An immunochemical procedure for determination of creatine kinase 3(1) (serum–specific) isoform in human serum evaluated. Panteghini M, et al. **Clin Biochem** 1990 Jun; 23(3):225–8

Myocardial infarction during a football game: empiric estimation of the contribution of skeletal muscle damage to the serum creatine kinase activity. Studer PP, et al. **Clin Cardiol** 1990 Aug;13(8):566–9

Increases in aspartate aminotransferase and creatine kinase in hemorrhagic shock and encephalopathy syndrome [letter] Bonham JR, et al. **Clin Chem** 1989 Nov; 35(11):2253–4

Further equipment recommendations for measuring the activity of creatine kinase [letter] Gachon AM, et al. **Clin Chem** 1990 Mar;36(3):581–2

Effect of isoenzyme composition on Kodak Ektachem test results for creatine kinase, lactate dehydrogenase, alkaline phosphatase, and amylase. Gorus FK, et al. **Clin Chem** 1990 Apr;36(4):685–6

Interference of macro–creatine kinase in determination of CK–MB in serum with the Kodak Ektachem [letter] Ruelland A, et al. **Clin Chem** 1989 Oct;35(10):2155–6

Serum creatine kinase in primary hypothermia [letter] Shoji S, et al. **Clin Chem** 1989 Nov;35(11):2254–5

Elevated serum creatine kinase. Following febrile seizures. Lahat E, et al. **Clin Pediatr (Phila)** 1989 Oct;28(10):449–51

Creatine kinase kinetics and myocardial infarction in different regions of the left ventricle. Sochman J, et al. **Cor Vasa** 1989;31(5):365–75

Creatine kinase values during isotretinoin treatment [letter] Bettoli V, et al. **Dermatologica** 1990;180(1):54–5

Serum CK–BB activity in the preterm infant and outcome at two and four years of age. den Ouden L, et al. **Dev Med Child Neurol** 1990 Jun;32(6):509–14

Serum creatine kinase activity after isometric exercise in premenopausal and postmenopausal women. Buckley–Bleiler R, et al. **Exp Aging Res** 1989 Autumn–Winter;15(3–4):195–8

Testosterone, cortisol, and creatine kinase levels in male distance runners during reduced training. Houmard JA, et al. **Int J Sports Med** 1990 Feb;11(1):41–5 (32 ref.)

Plasma activity of muscle enzymes: quantification of skeletal muscle damage and relationship with metabolic variables. Jansen GM, et al. **Int J Sports Med** 1989 Oct;10 Suppl 3:S160–8

Elevated creatine kinase and lactate dehydrogenase levels in a child with hypoparathyroidism. Klar A, et al. **Isr J Med Sci** 1990 Jan;26(1):53–5 (8 ref.)

Clinical application of subforms of creatine kinase MM and macro creatine kinases. Kanemitsu F, et al. **J Chromatogr** 1990 Apr 6;526(2):423–38

Detection of macroenzymes in serum by high–performance gel permeation chromatography. Sion JP, et al. **J Chromatogr** 1989 Nov 10;496(1):91–100

Serum creatine phosphokinase, lactic dehydrogenase, and their isoenzymes in the perioperative period. Tabatabai M, et al. **J Clin Anesth** 1989;1(4):277–83

Serum isoenzyme pattern of creatine kinase and lactate dehydrogenase in various animal species. Preus M, et al. **J Clin Chem Clin Biochem** 1989 Oct;27(10):787–90

Diagnosis of acute myocardial infarction from sequential enzyme measurements obtained within 12 hours of admission to hospital. Collinson PO, et al. **J Clin Pathol** 1989 Nov;42(11):1126–31

Erythrocyte osmotic fragility, serum creatine kinase and its isoenzymes related to body weight in porcine malignant hyperthermia. Doizé F, et al. **J Comp Pathol** 1990 May; 102(4):467–73

Assessing efficacy of therapeutic intervention on myocardial infarction process by enzymatic prediction method. Mukherjee D. **J Indian Med Assoc** 1989 Aug;87(8):185–7

Effects of tenotomy on muscle histology and energy metabolism in normal and dystrophic mice. Lane RJ, et al. **J Neurol Sci** 1989 Sep;92(2–3):307–16

Prognostic indicators in tibial shaft fractures: serum creatinine kinase activity. Oni OO, et al. **J Orthop Trauma** 1989; 3(4):345–7

CPK elevation in the spondyloarthropathies [letter] Bohan A, et al. **J Rheumatol** 1990 Apr;17(4):565–7

Hypothyroidism as a cause of enzyme elevations. Vaughters RB Jr. **J S C Med Assoc** 1990 Jun;86(6):351–2

Effect of anaerobic exercise on serum enzymes of young athletes. Song TM. **J Sports Med Phys Fitness** 1990 Jun; 30(2):138–41

Persistent elevation of cardiac enzymes in a patient with hypertrophic cardiomyopathy—with special reference to electrocardiographic, echocardiographic and 201–thallium myocardial scintigraphic findings. Hamada M, et al. **Jpn Circ J** 1990 Apr;54(4):354–60

Limitations of serum creatine kinase assay in diagnosis of acute myocardial infarction [letter] Doran GR, et al. **Lancet** 1990 Sep 15;336(8716):697

Serum parvalbumin, an indicator of muscle disease in murine dystrophy and myotonia. Jockusch H, et al. **Muscle Nerve** 1990 Jun;13(6):551–5

Creatine kinase and fibrillation potentials in patients with late sequelae of polio. Nelson KR. **Muscle Nerve** 1990 Aug; 13(8):722–5

Dantrolene normalizes serum creatine kinase in MDX mice [letter] Quinlan JG, et al. **Muscle Nerve** 1990 Mar; 13(3):268–9

Aldosterone, catecholamines, and CK–BB as biochemical markers in hypertensive intracerebral hemorrhage. Takahashi H. **Neurol Med Chir (Tokyo)** 1989 Nov; 29(11):999–1003

The serum creatine–kinase as a biologic marker in major depression. Bălkiță C, et al. **Neurol Psychiatr (Bucur)** 1990 Apr–Jun;28(2):127–34

Creatin–kinase–BB in blood after severe head injury. Niedeggen A, et al. **Neurosurg Rev** 1989;12 Suppl 1:412–5

The effective use of cardiac enzymes and electrocardiograms in the diagnosis of acute myocardial infarction in the elderly. Gama R, et al. **Postgrad Med J** 1990 May; 66(775):375–7

Correlation between QRS score system and peak creatine kinase for estimating myocardial infarct size in inferior infarction. Suárez–Rodriguez CN, et al. **Rev Port Cardiol** 1988 Sep–Oct;7(5):473–7

At what level of serum total creatine kinase activity can measurement of serum creatine kinase MB isoenzyme activity be omitted in suspected myocardial infarction? Knudsen J, et al. **Scand J Clin Lab Invest** 1989 Nov; 49(7):661–5

Use of biochemical tests for myocardial infarction in the county of Västernorrland, a clinical chemistry routine for the diagnosis of myocardial infarction. Hamfelt A, et al. **Scand J Clin Lab Invest Suppl** 1990;200:20–5

Brain type creatine kinase in relation to oxygen desaturation in the blood of children with congenital heart disease. Rossi RF, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(1):75–7

Serum creatine kinase and lactate dehydrogenase changes after anterior approaches to the thoracic and lumbar spine. Wukich DK, et al. **Spine** 1990 Mar;15(3):187–90

[A study on serum creatine phosphokinase and type A behavior in schizophrenia] Wu YB. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Jun; 22(3):177–8, backcover (Eng. Abstr.) **(Chi)**

[Effects of oxygenated volume expander on hemorrhagic shock] Yao Z. **Chung Hua Wai Ko Tsa Chih** 1990 Jan; 28(1):18–20, 61 (Eng. Abstr.) **(Chi)**

[The clinical significance of serum creatine phosphokinase measurement in patients with chronic cor pulmonale] Chen WB, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar; 20(1):54–7 (Eng. Abstr.) **(Chi)**

[Acute myocardial infarct and the kinetics of creatine kinase] Sochman J, et al. **Vnitr Lek** 1989 Oct;35(10):1025–32 (Eng. Abstr.) **(Cze)**

[Hypothyroid myopathy: apropos of a case with a great increase of creatine phosphokinase, myoglobinemia and transient kidney failure] Gepner P, et al. **Rev Med Interne** 1990 Mar–Apr;11(2):165–7 (Eng. Abstr.) **(Fre)**

[A case from practice (180). Abnormal muscle enzyme increase following sports activity (riding) in untrained condition] Nefzger T. **Schweiz Rundsch Med Prax** 1990 Jun 5;79(23):740–2 **(Ger)**

[Creatine kinase risk groups in acute myocardial infarct] Kothe K, et al. **Z Gesamte Inn Med** 1989 Nov 1; 44(21):649–52 (Eng. Abstr.) **(Ger)**

[Thrombolytic therapy in acute myocardial infarct. 1. Markers for evaluating effectiveness and thrombolytic substances] Kothe K. **Z Gesamte Inn Med** 1990 Apr 1; 45(7):177–83 (50 ref.) (Eng. Abstr.) **(Ger)**

[Localization and type of acute myocardial infarct in relation to myocardial infarct size—patients with acute re–infarct] Kothe K, et al. **Z Gesamte Inn Med** 1990 Apr 1; 45(7):188–90 (Eng. Abstr.) **(Ger)**

[Tumor markers and creatine kinase in the differential diagnosis of tubal pregnancy] Egarter C, et al. **Zentralbl Gynakol** 1990;112(11):715–8 (Eng. Abstr.) **(Ger)**

[The significance of thrombolytic therapy in acute myocardial infarct in advanced age] Kothe K, et al. **ZFA** 1989 Nov–Dec;44(6):315–9 (Eng. Abstr.) **(Ger)**

[Single photon emission myocardial tomoscintigraphy (SPECT) in the evaluation of the extension of the infarct area. Correlation with enzymatic, electrocardiographic and angiocardioscintigraphic data] Tartagni F, et al. **Ann Ital Med Int** 1987 Apr–Jun;2(2):110–7 (Eng. Abstr.) **(Ita)**

[Cardiac enzymes in acute cerebrovascular diseases: their behavior in relation to ECG] Lovreglio V, et al. **Minerva Med** 1989 Sep;80(9):1003–10 (Eng. Abstr.) **(Ita)**

[A case of hepatic encephalopathy with high blood level of macro creatine kinase] Shimoda K, et al. **Nippon Naika Gakkai Zasshi** 1990 May 10;79(5):680–1 **(Jpn)**

[Clinical significance of creatine kinase analysis in biochemical laboratory tests] Shoji S. **Nippon Rinsho** 1989 Dec;48 Suppl:285–7 **(Jpn)**

[The current aspect of serum creatine kinase in the laboratory medicine] Uzawa R. **Rinsho Byori** 1990 Mar;38(3):282–7 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Pituitary apoplexy with hypercreatinekinasemia] Mitsuhata Y, et al. **Rinsho Shinkeigaku** 1990 Feb;30(2):203–6 (Eng. Abstr.) **(Jpn)**

[Mitochondrial encephalomyopathy (focal cytochrome c oxidase deficiency) with transient episodes of muscle weakness and elevation of serum creatine kinase activity] Ohno M, et al. **Rinsho Shinkeigaku** 1990 Mar;30(3):317–9 (Eng. Abstr.) **(Jpn)**

[Maximal values of serum creatine phosphokinase and its myocardial fraction in acute myocardial infarct. Correlation with a previous history of ischemic cardiopathy] Carvalho M, et al. **Rev Port Cardiol** 1990 Jan; 9(1):25–9 (Eng. Abstr.) **(Por)**

[Clinical methods for evaluating infarct size and its anatomic correlations. A study conducted with 193 cases. II. Evaluation of infarct size by determining maximal creatine phosphokinase in serum. Enzimatico–anatomic correlations] Perdigão C, et al. **Rev Port Cardiol** 1989 Jan; 8(1):29–33 (Eng. Abstr.) **(Por)**

[Clinical methods for evaluating infarct size and its anatomic correlations. Study carried out in 193 cases. III. Comparison of data on the evaluation of the infarct size using the QRS score and a method of maximal creatine kinase determination in the serum] Perdigão C, et al. **Rev Port Cardiol** 1989 Oct;8(10):705–8 (Eng. Abstr.) **(Por)**

[Lactate dehydrogenase and creatine kinase activity in nerve compression and myodystrophic syndromes of lumbar osteochondrosis] Khabirov FA, et al. **Lab Delo** 1989; (11):16–9 (Eng. Abstr.) **(Rus)**

[The determination of the creatine kinase content of the blood in patients with nonspecific ulcerative colitis as a supplementary diagnostic test] Chuvaev IV, et al. **Ter Arkh** 1990;62(2):68–9 (Eng. Abstr.) **(Rus)**

[Dynamics of activity of creatine kinase and its isoenzymes in the serum of patients with alcoholism] Chuvaev IV, et al. **Vopr Med Khim** 1990 May–Jun;36(3):39–41 (Eng. Abstr.) **(Rus)**

[BB creatine kinase isoenzyme activity in the blood serum of patients with senile dementia, Alzheimer's disease and schizophrenia] Aksenova MV, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):113–6 (Eng. Abstr.) **(Rus)**

[Clinical significance of serum levels of creatine kinase and its isoenzymes] Fernández–Solá J, et al. **Med Clin (Barc)** 1990 May 12;94(18):708–10 **(Spa)**

[Infarct size determination using enzymatic methods in patients with early coronary recanalization] Pan M, et al. **Rev Esp Cardiol** 1990 Mar;43(3):162–70 (Eng. Abstr.) **(Spa)**

CEREBROSPINAL FLUID

Creatine kinase (CK–BB) determination in cerebrospinal fluid after acute experimental head injury. Anagnostopoulos DI, et al. **Br J Neurosurg** 1988;2(2):169–72

Cerebrospinal fluid creatine kinase activity in horses with central nervous system disease: 69 cases (1984–1989). Furr MO, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):245–8

Creatine kinase isoenzyme BB in the cerebrospinal fluid of patients with acute neurological diseases. Bödvarsson A, et al. **J Intern Med** 1990 Jan;227(1):5–9

TPA and CK–BB: new tumor markers in leptomeningeal carcinomatosis secondary to breast cancer [letter] Bach F, et al. **J Natl Cancer Inst** 1990 Feb 21;82(4):320–2

[Creatine phosphokinase in the cerebrospinal fluid of patients with acute meningitis] Smirnov VV, et al. **Vrach Delo** 1989 Jul;(7):112–3 (Eng. Abstr.) **(Rus)**

[Creatine phosphokinase in the cerebrospinal fluid of patients with stroke in the acute period] Zinchenko VA, et al. **Zh Nevropatol Psikhiatr** 1989;89(7):92–5 (Eng. Abstr.) **(Rus)**

GENETICS

A new polymorphic probe which defines the region of chromosome 19 containing the myotonic dystrophy locus. Johnson K, et al. **Am J Hum Genet** 1990 Jun;46(6):1073–81

A long–range restriction map of the human chromosome 19q13 region: close physical linkage between CKMM and the ERCC1 and ERCC2 genes. Smeets H, et al. **Am J Hum Genet** 1990 Mar;46(3):492–501

31P NMR measurements of the ADP concentration in yeast cells genetically modified to express creatine kinase. Brindle

K, et al. **Biochemistry** 1990 Apr 3;29(13):3295–302

Effect of denervation on the androgen-induced expression of actin and CPK mRNAs in the levator ani muscle of the rat. Boissonneault G, et al. **FEBS Lett** 1989 Nov 6; 257(2):329–32

Estimates of conditional heterozygosity risks for young females in Duchenne muscular dystrophy. Passos-Bueno MR, et al. **Hum Hered** 1989;39(4):202–11

Actin and creatine kinase mRNAs in rat levator ani and vastus muscles as a function of androgen status. Boissonneault G, et al. **J Appl Physiol** 1990 Apr; 68(4):1548–61

Two different RNA polymerase II initiation complexes can assemble on the rat brain creatine kinase promoter. Mitchell MT, et al. **J Biol Chem** 1990 May 15;265(14):8259–67

A cloned ATP:guanidino kinase in the trematode Schistosoma mansoni has a novel duplicated structure. Stein LD, et al. **J Biol Chem** 1990 Apr 25;265(12):6582–8

Brain and muscle creatine kinase genes contain common TA-rich recognition protein-binding regulatory elements. Horlick RA, et al. **Mol Cell Biol** 1990 Sep;10(9):4826–36

Muscle creatine kinase sequence elements regulating skeletal and cardiac muscle expression in transgenic mice. Johnson JE, et al. **Mol Cell Biol** 1989 Aug;9(8):3393–9

Tight linkage of creatine kinase (CKMM) to myotonic dystrophy on chromosome 19. Yamaoka LH, et al. **Neurology** 1990 Feb;40(2):222–6

NMR detection of creatine kinase expressed in liver of transgenic mice: determination of free ADP levels. Koretsky AP, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(8):3112–6

The phosphocreatine shuttle of sea urchin sperm: flagellar creatine kinase resulted from a gene triplication. Wothe DD, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5203–7

Reversal of creatine kinase translational repression by 3' untranslated sequences. Ch'ng JL, et al. **Science** 1990 May 25;248(4958):1003–6

In vivo footprinting of a muscle specific enhancer by ligation mediated PCR [published erratum appears in Science 1990 May 18;248(4957):802] Mueller PR, et al. **Science** 1989 Nov 10;246(4931):780–6

IMMUNOLOGY

Treatment of human muscle creatine kinase with glutaraldehyde preferentially increases the immunogenicity of the native conformation and permits production of high-affinity monoclonal antibodies which recognize two distinct surface epitopes. Man N, et al. **J Immunol Methods** 1989 Dec 20;125(1-2):251–9

METABOLISM

Creatine-kinase-BB after severe head-injury as an index of prognosis in relation to nature of trauma and patients age. Niedeggen A, et al. **Acta Neurochir (Wien)** 1989; 101(3–4):117–20

Sex-linked variation in creatine kinase release, and its dependence on oestradiol, can be demonstrated in an in-vitro rat skeletal muscle preparation. Amelink GJ, et al. **Acta Physiol Scand** 1990 Feb;138(2):115–24

Scaled creatine kinase model [letter] Connett RJ. **Am J Physiol** 1990 Apr;258(4 Pt 2):R1092–3

Effect of global myocardial stunning on Ca2(+)-sensitive myofibrillar ATPase activity and creatine kinase kinetics. Krause SM. **Am J Physiol** 1990 Sep;259(3 Pt 2):H813–9

Aluminum-adenine nucleotides as alternate substrates for creatine kinase. Furumo NC, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):33–9

Phosphorylase and creatine kinase modification by thiol-disulfide exchange and by xanthine oxidase-initiated S-thiolation. Miller RM, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):355–63

Alterations in the creatine kinase system in the myocardium of cardiomyopathic hamsters. Khuchua ZA, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):748–57

Internal thermodynamics of enzymes determined by equilibrium quench: values of Kint for enolase and creatine kinase. Burbaum JJ, et al. **Biochemistry** 1989 Nov 28; 28(24):9306–17

Contact site between inner and outer mitochondrial membrane: a dynamic microcompartment for creatine kinase activity. Biermans W, et al. **Biochim Biophys Acta** 1990 Jul 25;1018(2-3):225–8

Direct determination of creatine kinase equilibrium constants with creatine or cyclocreatine substrate. LoPresti P, et al. **Biochim Biophys Acta** 1989 Oct 19;998(3):317–20

Clinical application of a new enzyme-linked assay for the estimation of brain-specific creatine kinase in head injured patients. Curley P, et al. **Br J Neurosurg** 1989;3(6):655–8

Effects of acrylamide and N,N'-methylene-bis-acrylamide on creatine kinase activity. Matsuoka M, et al. **Brain Res** 1990 Jan 22;507(2):351–3

Leukemic cell creatine kinase and its isoenzymes. Fang SR, et al. **Chin Med J [Engl]** 1989 Jun;102(6):420–4

Determining the disappearance rate of creatine kinase (CK) in the dog [letter] Roberts R. **Circulation** 1990 Aug; 82(2):661–2

Post-transcriptional modification of serum creatine kinase in infected intensive care patients. Delanghe JR, et al. **Clin Chim Acta** 1990 Feb 28;187(2):115–24

Independent pathways causing cellular damage in mouse soleus muscle under hypoxia. McCall KE, et al. **Comp Biochem Physiol [A]** 1989;94(4):799–804

Distribution and developmental transition of phosphoglycerate mutase and creatine phosphokinase isozymes in rat muscles of different fiber-type composition. Andrés V, et al. **Differentiation** 1989 Jul;41(1):72–7

Energetic correlates of cardiac failure: changes in the creatine kinase system in the failing myocardium. Ingwall JS, et al. **Eur Heart J** 1990 Apr;11 Suppl B:108–15

Enzyme release after elective cardioversion. Jakobsson J, et al. **Eur Heart J** 1990 Aug;11(8):749–52

A spin-label electron spin resonance study of the binding of mitochondrial creatine kinase to cardiolipin. Cheneval D, et al. **Eur J Biochem** 1989 Dec 8;186(1-2):415–9

Imaging of human brain creatine kinase activity in vivo [published erratum appears in FASEB J 1990 Mar;4(5):1525] Cadoux-Hudson TA, et al. **FASEB J** 1989 Dec;3(14):2660–6

In vitro correlation of ultrastructural morphology and creatine phosphokinase release in L6 skeletal muscle cells after exposure to parenteral antibiotics. Laska DA, et al. **In Vitro Cell Dev Biol** 1990 Apr;26(4):393–8

Coupling of the enzymic activities of myosin ATPase and creatine kinase and its role in muscular contraction. Khan LA, et al. **Indian J Biochem Biophys** 1989 Jun;26(3):148–52

Sperm creatine kinase activity in fertile and infertile oligospermic men. Huszar G, et al. **J Androl** 1990 Jan-Feb; 11(1):40–6

Effects of chronic administration of doxorubicin on myocardial creatine phosphokinase and antioxidant defenses and levels of lipid peroxidation in tissues and plasma of rats. Robison TW, et al. **J Biochem Toxicol** 1989 Summer;4(2):87–94

Functional studies with the octameric and dimeric form of mitochondrial creatine kinase. Differential pH-dependent association of the two oligomeric forms with the inner mitochondrial membrane. Schlegel J, et al. **J Biol Chem** 1990 Jun 5;265(16):9221–7

Mechanisms of creatine kinase release from isolated rat skeletal muscles damaged by propylene glycol and ethanol. Brazeau GA, et al. **J Pharm Sci** 1990 May;79(5):393–7

The theory of diazymes and functional coupling of pyruvate kinase and creatine kinase. Dillon PF, et al. **J Theor Biol** 1990 Mar 22;143(2):275–84

The kinetics of the creatine kinase reaction in neonatal rabbit heart: does the rate equation accurately describe the kinetics observed in the isolated perfused heart? McAuliffe JJ, et al. **Prog Clin Biol Res** 1989;315:581–92

31P-NMR study on intracellular energy transport in muscle. Yoshizaki K. **Prog Clin Biol Res** 1989;315:177–84

Developmental studies on creatine kinase. Isoenzyme in rat gastrointestinal tract. Grilo A, et al. **Rev Esp Fisiol** 1989 Dec;45(4):363–6

[Immunoelectron microscopic studies on the localization of creatine kinase M in normal and ischemic myocardial cells] Otsu N, et al. **Rinsho Byori** 1990 Jul;38(7):773–81 (Eng. Abstr.) **(Jpn)**

[The effect of anthracyclines on heart mitochondria respiration during the action of creatine phosphokinase] Gorskaia IA, et al. **Biokhimiia** 1989 Sep;54(9):1440–4 (Eng. Abstr.) **(Rus)**

[Damage to the creatine phosphokinase of rat brain synaptosomes during molecular oxygen activation] Spiricheva NV, et al. **Biull Eksp Biol Med** 1989 Jun; 107(6):680–2 (Eng. Abstr.) **(Rus)**

[Functional state of mitochondria, myofibrils and creatine kinase associated with these organelles of the myocardium in hamsters with hereditary cardiomyopathy] Veksler VI, et al. **Kardiologiia** 1989 Aug;29(8):75–9 (Eng. Abstr.) **(Rus)**

[Human embryonal muscles in Duchenne muscular dystrophy] Grinio LP. **Vopr Med Khim** 1990 Jan-Feb; 36(1):37–9 (Eng. Abstr.) **(Rus)**

[Effect of the acute administration of lithium on various enzymatic activities of the brain] Gandarias JM, et al. **Rev Esp Fisiol** 1989;45 Suppl:29–33 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

International Federation of Clinical Chemistry Scientific Division. Committee on enzymes. IFCC methods for the measurement of catalytic concentration of enzymes, Part 7. IFCC method for creatine kinase (ATP: creatine N-phosphotransferase, EC 2.7.3.2. IFCC recommendation). **Ann Biol Clin (Paris)** 1990;48(3):185–202

Optimization of magnetization transfer measurements: statistical analysis by stochastic simulation. Application to creatine kinase kinetics. Rydzy M, et al. **Magn Reson Med** 1990 Aug;15(2):260–74

PHYSIOLOGY

Kinetic properties of the octameric and dimeric forms of mitochondrial creatine kinase and physiological role of the enzyme. Lipskaya TYu, et al. **Biochem Int** 1989 Sep; 19(3):603–13

CREATINE KINASE ISOENZYMES

ANALYSIS

Effects of ritodrine tocolysis on cardiac isozymes and electrocardiography [letter] Hendricks SK, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):699–701

The diagnostic and prognostic value of pretreatment serum creatine kinase BB levels in patients with neuroblastoma. Ishiguro Y, et al. **Cancer** 1990 May 1;65(9):2014–9

Falsely increased CK-MB results obtained with the new reformulated CK-MB wash IV solution in the Stratus analyzer [letter] Apple F, et al. **Clin Chem** 1990 Feb; 36(2):405–6

Quantifying the MB isoenzyme of creatine kinase with the Abbott "IMx" immunoassay analyzer. Brandt DR, et al. **Clin Chem** 1990 Feb;36(2):375–8

Stratus automated creatine kinase-MB assay evaluated: identification and elimination of falsely increased results associated with a high-molecular-mass form of alkaline phosphatase. Butch AW, et al. **Clin Chem** 1989 Oct; 35(10):2048–53

Analytical evaluation of a sensitive enzyme immunoassay for determinations of creatine kinase isoenzyme MB. Jørgensen PJ, et al. **Clin Chem** 1990 Aug;36(8 Pt 1):1502–5

Effect of denervation on the distribution and developmental transition of phosphoglycerate mutase and creatine phosphokinase isozymes in rat muscles of different fiber-type composition. Andrés V, et al. **Differentiation** 1990 Apr;43(2):98–103

Developmental expression of creatine kinase isozymes in mammalian lens. Friedman DL, et al. **Exp Eye Res** 1989 Sep;49(3):445–57

Human, rabbit, bovine, and porcine creatine kinase isoenzymes are glycoproteins. McBride JH, et al. **J Clin Lab Anal** 1990;4(3):196–8

Creatine kinase: race-gender differences in patients hospitalized for suspected myocardial infarction. Cook JC, et al. **J Natl Med Assoc** 1990 Apr;82(4):249–54 (40 ref.)

Lactate dehydrogenase and creatine phosphokinase isoenzymes in tissues of laboratory animals. Yasuda J, et al. **Jpn J Vet Res** 1990 Jan;38(1):19–29

Subcellular compartmentation of creatine kinase isoenzymes, regulation of CK and octameric structure of mitochondrial CK: important aspects of the phosphoryl-creatine circuit. Wallimann T, et al. **Prog Clin Biol Res** 1989;315:159–76 (65 ref.)

[Demonstration of the isoenzymes of creatine kinase and lactate dehydrogenase using cellulose acetate strip electrophoresis] Reppin R, et al. **Z Med Lab Diagn** 1989; 30(6):304–7 (Eng. Abstr.) **(Ger)**

[Studies on method for electrophoresis of creatine kinase (CK) MB sub-bands and its clinical application] Takahashi S, et al. **Rinsho Byori** 1989 Oct;37(10):1134–8 (Eng. Abstr.) **(Jpn)**

[Fluorescent antibodies to creatine kinase for detecting the enzyme in tissue culture] Sokolov IN, et al. **Lab Delo** 1989; (11):37–9 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Monoclonal antibody inhibiting creatine kinase MM3 but not isoform MM1. Suzuki T, et al. **Clin Chem** 1990 Jan; 36(1):153–6

BIOSYNTHESIS

Dantrolene sodium diminishes exercise-induced muscle damage in the rat. Amelink GJ, et al. **Eur J Pharmacol** 1990 Apr 10;179(1-2):187–92

Spermatogenesis-related change in the synthesis of the creatine kinase B-type and M-type isoforms in human spermatozoa. Huszar G, et al. **Mol Reprod Dev** 1990 Mar; 25(3):258–62

BLOOD

Serum CK-MB is useful in diagnosis of acute myocardial infarction after total hip arthroplasty. Akeson J, et al. **Acta Anaesthesiol Scand** 1989 Aug;33(6):435–8

Serum creatine kinase-B activity in patients with chronic lower-limb ischemia and after leg amputation. Møller-Petersen J, et al. **Acta Chir Scand** 1989 Oct; 155(10):521–5

Serum creatine kinase BB isoenzyme levels in an epidemiological study of dementia and cognitive impairment. Brayne C, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):6–8

The prognostic significance of immunoradiometric CK-MB assay (IRMA) diagnosis of myocardial infarction in patients with low total CK and elevated MB isoenzymes. Clyne CA, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):901–6

Atypical creatine kinase MB isozyme in an elderly patient without evidence of myocardial infarction or underlying malignancy. Streiff MB, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):693–4

Quantification of area and percentage of infarcted myocardium by single photon emission computed tomography with thallium-201: a comparison with serial serum CK-MB measurements. Nakata T, et al. **Ann Nucl Med** 1989 Mar;3(1):1–8

Prognostic value of creatinine kinase BB-isoenzyme in high risk newborn infants [letter; comment] Primhak RA, et al. **Arch Dis Child** 1989 Dec;64(12):1761–2 Comment on: Arch Dis Child 1989 Apr;64(4):563–8.

Effect of iloprost on serum creatine kinase and lactate dehydrogenase isoenzymes after isoprenaline-induced cardiac damage in rats. Bhargava AS, et al. **Arzneimittelforschung** 1990 Mar;40(3):248–52

Immunological studies of serum creatine kinase isoenzymes after head injury. Horner EB, et al. **Biochem Soc Trans**

1990 Apr;18(2):253–4
CPK levels and neuroleptic malignant syndrome [letter; comment] James S. Br J Psychiatry 1989 Oct;155:567 Comment on: Br J Psychiatry 1989 Jun;154:885–6.
Optimised function for determining time to peak creatine kinase and creatine kinase–MB as non–invasive reperfusion indicators after thrombolytic therapy in acute myocardial infarction. Schwerdt H, et al. Cardiovasc Res 1990 Apr; 24(4):328–34
Old diagnostic friends revisited. An evaluation of cardiac enzymes [editorial; comment] Cohen DJ. Chest 1990 Mar; 97(3):519–20 Comment on: Chest 1990 Mar;97(3):521–7.
Chest pain and increased CK–MB enzyme levels [clinical conference] Georgiou D, et al. Chest 1990 Aug;98(2):442–7
Alterations in serum creatine kinase and lactate dehydrogenase. Association with abdominal aortic surgery, myocardial infarction and bowel necrosis [see comments] Graeber GM, et al. Chest 1990 Mar;97(3):521–7 Comment in: Chest 1990 Mar;97(3):519–20.
Enzymes and exertion [letter; comment] Wahi S, et al. Chest 1990 May;97(5):1268 Comment on: Chest 1988 Dec;94(6):1216–20.
Optimized preservation of isoforms of creatine kinase MM isoenzyme in plasma specimens and their rapid quantification by semi–automated chromatofocusing. Abendschein DR, et al. Clin Chem 1990 May;36(5):723–7
Muscle enzymes and isoenzymes in Emery–Dreifuss muscular dystrophy. Bialer MG, et al. Clin Chem 1990 Mar; 36(3):427–30
Automated quantification of creatine kinase MB isoenzyme in serum by radial partition immunoassay, with use of the Stratus analyzer. Chapelle JP, et al. Clin Chem 1990 Jan; 36(1):99–101
Characteristics of creatine kinase–MB and MB isoforms in serum after reperfusion in acute myocardial infarction. Christenson RH, et al. Clin Chem 1989 Nov;35(11):2179–85
Estimation of brain lesion size based on quantifying CK–BB release [letter] Delanghe J, et al. Clin Chem 1990 Feb; 36(2):404–5
Mass concentration and activity concentration of creatine kinase isoenzyme MB compared in serum after acute myocardial infarction. Delanghe JR, et al. Clin Chem 1990 Jan;36(1):149–53
CK–MB isoform determination and early diagnosis of myocardial infarction [letter; comment] Panteghini M. Clin Chem 1990 Jun;36(6):1255–6 Comment on: Clin Chem 1989 Oct;35(10):2157–8.
A two–tube immunochemical method for determination of CK–MB isoenzyme in serum evaluated. Panteghini M, et al. Clin Chem 1990 Mar;36(3):550–3
Interference of macro–creatine kinase in determination of CK–MB in serum with the Kodak Ektachem [letter] Ruelland A, et al. Clin Chem 1989 Oct;35(10):2155–6
Immunochemical test for CK–MB isoforms [letter] [see comments] Shah VD. Clin Chem 1989 Oct;35(10):2157–8 Comment in: Clin Chem 1990 Jun;36(6):1255–6.
heterogeneity of creatine kinase isoenzyme MM in serum in myocardial infarction: interconversion of the "normal" and "abnormal" sub–bands by glutathione. Williams J, et al. Clin Chem 1990 May;36(5):775–7
Non–M CK—a practical measure of creatine kinase isoenzymes in cancer patients. McGing PG, et al. Clin Chim Acta 1990 Mar 15;187(3):309–15
Diagnostic use of CK–MM and CK–MB isoforms for detecting myocardial infarction. Apple FS. Clin Lab Med 1989 Dec;9(4):643–54 (33 ref.)
Differential diagnosis of patients with abnormal serum creatine kinase isoenzymes. Lott JA, et al. Clin Lab Med 1989 Dec;9(4):627–42 (75 ref.)
Heterogeneity of serum creatine kinase isoenzyme–MM in acute myocardial infarction. Williams J, et al. Electrophoresis 1989 Aug–Sep;10(8–9):579–83
New bundle branch block after coronary artery bypass grafting—evaluation by CK–MB isoenzyme analysis and transoesophageal echocardiography. Hake U, et al. Eur Heart J 1990 Jan;11(1):59–64
Emergency surgical revascularization following coronary angioplasty: evaluation of operative results by isoenzyme analysis and electrocardiography. Hake U, et al. Eur J Cardiothorac Surg 1989;3(6):549–53
Diagnosis of perioperative myocardial necrosis following coronary artery surgery—a reappraisal of isoenzyme analysis. Hake U, et al. Eur J Cardiothorac Surg 1990; 4(2):79–84
Hypoxic risk in twins assessed by serum creatinine kinase brain isoenzyme measurement. Amato M, et al. Eur J Obstet Gynecol Reprod Biol 1990 Jan–Feb; 34(1–2):73–8
Myocardial contusion without creatine kinase—MB elevation. Unkle DW, et al. Heart Lung 1989 Nov; 18(6):539–41
Timing and magnitude of serum creatine kinase–MB after transcatheter cardiac tissue fulguration in man. Lesser J, et al. Int J Cardiol 1990 Jan;26(1):83–91
Optimal criteria for rapid detection of myocardial reperfusion by creatine kinase MM isoforms in the presence of residual high grade coronary stenosis. Nohara R, et al. J Am Coll Cardiol 1989 Oct;14(4):1067–73
Clinical application of subforms of creatine kinase MM and macro creatine kinases. Kanemitsu F, et al. J Chromatogr 1990 Apr 6;526(2):423–38
Detection of macroenzymes in serum by high–performance gel permeation chromatography. Sion JP, et al. J Chromatogr 1989 Nov 10;496(1):91–100
Diagnosis of acute myocardial infarction from sequential enzyme measurements obtained within 12 hours of admission to hospital. Collinson PO, et al. J Clin Pathol 1989 Nov;42(11):1126–31
Muscle cramps: a cause of elevated creatine kinase levels in hemodialysis patients. Hernando P, et al. Nephron 1990; 55(2):231–2
Biochemical markers in the acute stage of head injury—aldosterone and CK–BB. Takahashi H, et al. Neurol Med Chir (Tokyo) 1989 Mar;29(3):192–5
Diagnostic problem caused by an atypical creatine kinase isoenzyme in a patient with myocardial infarction. Campbell BG, et al. Pathology 1990 Jan;22(1):45–8
At what level of serum total creatine kinase activity can measurement of serum creatine kinase MB isoenzyme activity be omitted in suspected myocardial infarction? Knudsen J, et al. Scand J Clin Lab Invest 1989 Nov; 49(7):661–5
Serum macro creatine kinase type 2 as a tumor marker in lung cancer: comparison with carcinoembryonic antigen. Lee YC, et al. Taiwan I Hsueh Hui Tsa Chih 1990 Feb; 89(2):104–9
[Plasma CK–MB activity and QRS score in estimating acute myocardial infarct size] Luo ZM, et al. Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1989 Oct; 17(5):279–82, 318 (Eng. Abstr.) (Chi)
[Changes of creatine phosphokinase and malondialdehyde in the serum and clinical use of large doses of vitamin C following open heart surgery] Li CC. Chung Hua Wai Ko Tsa Chih 1990 Jan;28(1):16–7, 60–1 (Eng. Abstr.) (Chi)
[Macro–creatine–kinase: not every increased CK–MB activity points to a heart infarct (letter)] Punt JM. Ned Tijdschr Geneeskd 1989 Oct 28;133(43):2142–3 (Dut)
[Brain–type creatine kinase isoenzymes (CK BB) in cerebrovascular accidents] Mrabet A, et al. Tunis Med 1989 Jun–Jul;67(6–7):397–400 (Fre)
[Assessment of prognosis in acute myocardial infarct after reaching the maximum enzyme activity] Junker L, et al. Z Gesamte Inn Med 1990 Apr 1;45(7):193–5 (Eng. Abstr.) (Ger)
[Enzyme liberation after electrical His bundle ablation] Junker L, et al. Z Gesamte Inn Med 1990 Apr 15; 45(8):232–4 (Eng. Abstr.) (Ger)
[Isoenzymes of lactate dehydrogenase, alkaline phosphatase, creatine kinase. Possible use as tumor markers] Scarazatti E, et al. Boll Soc Ital Biol Sper 1989 Aug;65(8):767–74 (Eng. Abstr.) (Ita)
[Statistic correlation of carcinoembryonal antigen (CEA), alpha–feto protein (AFP) and isoenzymes of mitochondrial and BB creatine phosphokinase (CK+–BB and CK–MT) in patients with neoplasms] Scarazatti E, et al. Boll Soc Ital Biol Sper 1990 Apr;66(4):381–5 (Eng. Abstr.) (Ita)
[Cardiac enzymes in acute cerebrovascular diseases: their behavior in relation to ECG] Lovreglio V, et al. Minerva Med 1989 Sep;80(9):1003–10 (Eng. Abstr.) (Ita)
[Beta–enolase in blood plasma during open heart surgery—comparing with CK–MB and CA–III in blood plasma] Usui A, et al. Nippon Kyobu Geka Gakkai Zasshi 1989 Sep;37(9):1945–9 (Eng. Abstr.) (Jpn)
[The change of creatine kinase bb isozyme in patients undergoing mitral value replacement—comparison with creatine kinase MB and MM isozymes] Usui A, et al. Nippon Kyobu Geka Gakkai Zasshi 1989 Aug;37(8):1481–5 (Eng. Abstr.) (Jpn)
[Changes in serum CK and GOT concentration as a noninvasive marker of restoration of infarct–related coronary artery] Ikushima I, et al. Nippon Naika Gakkai Zasshi 1989 Oct;78(10):1441–50 (Jpn)
[Clinical significance of creatine kinase analysis in biochemical laboratory tests] Shoji S. Nippon Rinsho 1989 Dec;48 Suppl:285–7 (Jpn)
[Myocarditis simulating acute myocardial infarction. A case report] Jacob JL, et al. Arq Bras Cardiol 1989 May; 52(5):279–81 (Eng. Abstr.) (Por)
[MB isoenzyme of myocardial creatino–kinase: activity curves in the blood, after ischemic cardiopathy surgery] Lousada N, et al. Rev Port Cardiol 1989 Nov;8(11):755–9 (Eng. Abstr.) (Por)
[Clinical value of the assessment of creatine kinase BB isoenzyme activity in newborn infants with hypoxic–ischemic lesions of the brain] Atakhanova MT, et al. Akush Ginekol (Mosk) 1990 Jan;(1):65–7 (Rus)
[Dynamics of activity of creatine kinase and its isoenzymes in the serum of patients with alcoholism] Chuvaev IV, et al. Vopr Med Khim 1990 May–Jun;36(3):39–41 (Eng. Abstr.) (Rus)
[BB creatine kinase isoenzyme activity in the blood serum of patients with senile dementia, Alzheimer's disease and schizophrenia] Aksenova MV, et al. Zh Nevropatol Psikhiatr 1989;89(9):113–6 (Eng. Abstr.) (Rus)
[Clinical significance of serum levels of creatine kinase and its isoenzymes] Fernández–Solá J, et al. Med Clin (Barc) 1990 May 12;94(18):708–10 (Spa)

CEREBROSPINAL FLUID

Relationship between CT attenuation changes and post–traumatic CSF–CKBB–activity after severe head injury in man. Rabow L, et al. Acta Neurochir (Wien) 1989; 100(3–4):155–7
Creatine kinase BB release into cerebrospinal fluid after lateral ventricle cannulation. Bach FW, et al. Br J Neurosurg 1988;2(3):339–42
Creatine kinase–BB in the cerebrospinal fluid as a marker of CNS metastases and leptomeningeal carcinomatosis in patients with breast cancer. Bach F, et al. Eur J Cancer Clin Oncol 1989 Dec;25(12):1703–9
[Cerebrospinal fluid level of aldolase C in patients with various neurological disorders: comparison with neuron–specific enolase, S–100b protein and creatine kinase BB isoenzyme] Murayama T, et al. Rinsho Shinkeigaku 1989 May;29(5):568–73 (Eng. Abstr.) (Jpn)
[Creatine kinase isoenzymes in the diagnosis of acute cranio–cerebral trauma] Skorniakov VI, et al. Lab Delo 1989;(7):13–5 (Eng. Abstr.) (Rus)
[Creatine phosphokinase in the cerebrospinal fluid of patients with stroke in the acute period] Zinchenko VA, et al. Zh Nevropatol Psikhiatr 1989;89(7):92–5 (Eng. Abstr.) (Rus)

DIAGNOSTIC USE

Biochemical timing of peri–intraventricular hemorrhage assessed by perinatal CPK–BB isoenzyme measurements. Amato M, et al. J Perinat Med 1989;17(6):447–52

GENETICS

Post synthetic modification of CK–MM by kininase I. van Sande M, et al. Adv Exp Med Biol 1989;247A:319–24
Tissue–specific distribution and developmental regulation of M and B creatine kinase mRNAs. Trask RV, et al. Biochim Biophys Acta 1990 Jun 21;1049(2):182–8
Developmental expression of the creatine kinase isozyme system of Xenopus: maternally derived CK–IV isoform persists far beyond the degradation of its maternal mRNA and into the zygotic expression period. Robert J, et al. Development 1990 Mar;108(3):507–14
Separate nuclear genes encode sarcomere–specific and ubiquitous human mitochondrial creatine kinase isoenzymes. Haas RC, et al. J Biol Chem 1990 Apr 25; 265(12):6921–7
Muscle creatine kinase isoenzyme expression in adult human brain. Hamburg RJ, et al. J Biol Chem 1990 Apr 15; 265(11):6403–9
Alternative ribosomal initiation gives rise to chicken brain–type creatine kinase isoproteins with heterogeneous amino termini. Soldati T, et al. J Biol Chem 1990 Mar 15; 265(8):4498–506
A unique chicken B–creatine kinase gene gives rise to two B–creatine kinase isoproteins with distinct N termini by alternative splicing. Wirz T, et al. J Biol Chem 1990 Jul 15;265(20):11656–66
Estradiol induction of accelerated energy metabolism in prepuberal rat uteri in vitro: mRNA hybridization and [13C]NMR studies. Kaye AM, et al. J Steroid Biochem 1989;34(1–6):289–92
Antisense RNA complementary to 3' coding and noncoding sequences of creatine kinase is a potent inhibitor of translation in vivo. Ch'ng JL, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):10006–10
MyoD binds cooperatively to two sites in a target enhancer sequence: occupancy of two sites is required for activation. Weintraub H, et al. Proc Natl Acad Sci U S A 1990 Aug; 87(15):5623–7

ISOLATION & PURIFICATION

Mitochondrial creatiue kinase from chicken brain. Purification, biophysical characterization, and generation of heterodimeric and heterooctameric molecules with subunits of other creatine kinase isoenzymes. Wyss M, et al. J Biol Chem 1990 Sep 15;265(26):15900–8
[Simultaneous separation of creatine kinase and lactate dehydrogenase isoenzymes using an electrophoresis method] Ameliushkina VA, et al. Lab Delo 1990;(3):46–50 (Eng. Abstr.) (Rus)

METABOLISM

Prevention of creatine kinase–MB release in coronary artery disease and pacing–induced myocardial ischemia by isosorbide dinitrate spray. Marmor A, et al. Am J Cardiol 1990 Jun 4;65(21):36J–38J
Diabetes decreases creatine kinase enzyme activity and mRNA level in the rat heart. Popovich BK, et al. Am J Physiol 1989 Oct;257(4 Pt 1):E573–7
Alterations in the creatine kinase system in the myocardium of cardiomyopathic hamsters. Khuchua ZA, et al. Biochem Biophys Res Commun 1989 Dec 15;165(2):748–57
Resonance energy transfer between the active sites of creatine kinase from rabbit brain. Grossman SH. Biochim Biophys Acta 1990 Sep 3;1040(2):276–80
Monoclonal antibody studies suggest a catalytic site at the interface between domains in creatine kinase. Morris GE, et al. Biochim Biophys Acta 1990 Jul 6;1039(3):318–22
Is the subunit the minimal function unit of creatine kinase? Wang XC, et al. Biochim Biophys Acta 1990 Jul 6; 1039(3):313–7

Disappearance and appearance of isoenzymes of creatine kinase, lactate dehydrogenase and aspartate aminotransferase in the myocardium undergoing infarction. Matsui Y, et al. **Cardiovasc Res** 1989 Mar;23(3):249–53

Leukemic cell creatine kinase and its isoenzymes. Fang SR, et al. **Chin Med J [Engl]** 1989 Jun;102(6):420–4

Early diagnosis of acute myocardial infarction based on assay for subforms of creatine kinase–MB [see comments] Puleo PR, et al. **Circulation** 1990 Sep;82(3):759–64 Comment in: Circulation 1990 Sep;82(3):1073–5.

Relative increase in creatine kinase MB isoenzyme during reperfusion after myocardial infarction is method dependent. Christenson RH, et al. **Clin Chem** 1990 Aug; 36(8 Pt 1):1444–9

Enzyme release after elective cardioversion. Jakobsson J, et al. **Eur Heart J** 1990 Aug;11(8):749–52

A comparison of blood, crystalloid and oxygenated crystalloid cardioplegia solutions on myoglobin and creatine kinase release following cardiac surgery. Gerrish SP, et al. **Eur J Cardiothorac Surg** 1988;2(6):438–41

Phosphorylation of chicken brain–type creatine kinase affects a physiologically important kinetic parameter and gives rise to protein microheterogeneity in vivo. Quest AF, et al. **FEBS Lett** 1990 Sep 3;269(2):457–64

Ventricular myosin and creatine–kinase isoenzymes in hypertensive rats treated with captopril. Pauletto P, et al. **Hypertension** 1989 Nov;14(5):556–62

Expression of muscle–specific isozymes of phosphorylase and creatine kinase in human muscle fibers cultured aneurally in serum–free, hormonally/chemically enriched medium. Pegolo G, et al. **Int J Dev Neurosci** 1990;8(3):299–308

Muscle–type MM creatine kinase is specifically bound to sarcoplasmic reticulum and can support Ca2+ uptake and regulate local ATP/ADP ratios. Rossi AM, et al. **J Biol Chem** 1990 Mar 25;265(9):5258–66

Paralysis of innervated cultured human muscle fibers affects enzymes differentially. Martinuzzi A, et al. **J Neurochem** 1990 Jan;54(1):223–9

Creatine kinase BB isoenzyme activity and severe head injury [letter; comment] Bach FW, et al. **J Neurosurg** 1990 Apr; 72(4):672–3 Comment on: J Neurosurg 1989 Jul;71(1):54–8.

The subcellular compartmentation of creatine kinase isozymes as a precondition for a proposed phosphoryl–creatine circuit. Wallimann T, et al. **Prog Clin Biol Res** 1990;344:877–89 (43 ref.)

Developmental studies on creatine kinase. Isoenzyme in rat gastrointestinal tract. Grilo A, et al. **Rev Esp Fisiol** 1989 Dec;45(4):363–6

Creatine kinase and lactate dehydrogenase isoenzyme patterns in cultured normal and pathological gingival fibroblasts. Huang JS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Feb;89(2):126–31

Creatine kinase–BB activity in malignant tumors and in sera from patients with malignant diseases. Roguljić A, et al. **Tumori** 1989 Dec 31;75(6):537–41

CREATINE KINASE ISOZYMES see CREATINE KINASE ISOENZYMES

CREATINE PHOSPHATE see PHOSPHOCREATINE

CREATINE PHOSPHOKINASE see CREATINE KINASE

CREATININE

ANALOGS & DERIVATIVES

Direct determination of creatine kinase equilibrium constants with creatine or cyclocreatine substrate. LoPresti P, et al. **Biochim Biophys Acta** 1989 Oct 19;998(3):317–20

Creatol (5–hydroxycreatinine), a new toxin candidate in uremic patients. Nakamura K, et al. **Experientia** 1990 May 15;46(5):470–2

ANALYSIS

Suitable potentiometric enzyme sensors for urea and creatinine. Campanella L, et al. **Analyst** 1990 Jun; 115(6):827–30

Biological variation of serum and urine creatinine and creatinine clearance [letter] Payne RB. **Ann Clin Biochem** 1989 Nov;26 (Pt 6):565–6

Determination of creatinine in serum and urine by a rapid liquid–chromatographic method. Paroni R, et al. **Clin Chem** 1990 Jun;36(6):830–6

Microbial enzymes for creatinine assay: a review. Shimizu S, et al. **Clin Chim Acta** 1989 Dec 15;185(3):241–52 (33 ref.)

[Significance of creatinine analysis in clinical tests] Yoshimura M, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:402–6 **(Jpn)**

[Methods of studying creatinine (review of literature)] Titov VN, et al. **Lab Delo** 1989;(9):4–10 (52 ref.) **(Rus)**

BLOOD

Effect of Kapalabhati on blood urea, creatinine and tyrosine. Desai BP, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):95–8

Evolution of experimental mild and severe chronic renal failure in the rat. Mathematical models. MacLaughlin M, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(2):153–63

Use of the serum creatinine to estimate glomerular filtration rate in health and early diabetic nephropathy. Collaborative Study Group of Angiotensin Converting Enzyme Inhibition in Diabetic Nephropathy. Lemann J, et al. **Am J Kidney Dis** 1990 Sep;16(3):236–43

An improved cation exchange HPLC method for the measurement of serum creatinine. Guy JM, et al. **Ann Clin Biochem** 1990 May;27 (Pt 3):223–6

Reference ranges for serum creatinine in infants, children and adolescents. Savory DJ. **Ann Clin Biochem** 1990 Mar; 27 (Pt 2):99–101

Long–term observation of serum creatinine and arterial blood pH in persons with cadmium–induced renal dysfunction. Kido T, et al. **Arch Environ Health** 1990 Jan–Feb; 45(1):35–41

Effect of storage time on red blood cell membrane permeability to creatinine and uric acid. Buzdygon KJ, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):693–6

Blood lead concentration, renal function, and blood pressure in London civil servants. Staessen J, et al. **Br J Ind Med** 1990 Jul;47(7):442–7

Use of free and transthyretin–bound retinol–binding protein in serum as tests of vitamin A status in humans: effect of high creatinine concentrations in serum. Burri BJ, et al. **Clin Chem** 1990 Apr;36(4):674–6

Assessment of renal function by serum creatinine and creatinine clearance: glomerular filtration rate estimated by four procedures. Van Lente F, et al. **Clin Chem** 1989 Dec;35(12):2326–30

Lidocaine interference with Ektachem analyzer determinations of serum creatinine concentration. Spinler SA, et al. **Clin Pharm** 1989 Sep;8(9):659–63

Seasonal serum urea–creatinine ratios in wild and captive American badgers, Taxidea taxus. Harlow HJ, et al. **Comp Biochem Physiol [A]** 1990;95(1):65–8

Vancomycin pharmacokinetics in infants: relationship to postconceptional age and serum creatinine. Kildoo CW, et al. **Dev Pharmacol Ther** 1989;14(2):77–83

Estimation of creatinine clearance in patients with Cushing's syndrome. Hatton J, et al. **DICP** 1989 Dec;23(12):974–7

Renal function in the newborn. Newborn creatinine related to birth weight, maturity and maternal creatinine. Lao TT, et al. **Gynecol Obstet Invest** 1989;28(2):70–2

Serum creatinine: small rise, big problem [letter; comment] Feinfeld DA. **Hosp Pract [Off]** 1989 Dec 15;24(12):27 Comment on: Hosp Pract [Off] 1989 Aug 15;24(8):71–2.

A population study of renal function in sickle cell anemia. Sklar AH, et al. **Int J Artif Organs** 1990 Apr;13(4):231–6

Plasma urea, creatinine, uric acid, albumin, and total protein concentrations before and after 15–, 25–, and 42–km contests. Janssen GM, et al. **Int J Sports Med** 1989 Oct; 10 Suppl 3:S132–8

Determination of creatinine in serum by high–performance liquid chromatography: a comparison of three ion–exchange methods. Kågedal B, et al. **J Chromatogr** 1990 Apr 27;527(1):21–30

Simultaneous determination of creatine, uric acid and creatinine by high–performance liquid chromatography with direct serum injection and multi–wavelength detection. Werner G, et al. **J Chromatogr** 1990 Feb 23; 525(2):265–75

Intraoperative urinary output and postoperative blood urea nitrogen and creatinine levels in patients undergoing aortic reconstructive surgery. Knos GB, et al. **J Clin Anesth** 1989; 1(3):181–5

Performance profiles: new tools for characterization and comparison of clinical chemical results. Keller H, et al. **J Clin Chem Clin Biochem** 1989 Sep;27(9):613–29

Flucytosine interference in creatinine assay [letter] Bennett JE, et al. **J Infect Dis** 1990 Aug;162(2):571–2

Artifactual elevation of the serum creatinine in patients receiving flucytosine for cryptococcal meningitis [letter] Kennedy CA, et al. **J Infect Dis** 1989 Dec;160(6):1090–1

Factors influencing progression in patients with chronic renal failure. Stenvinkel P, et al. **J Intern Med** 1989 Sep; 226(3):183–8

Serum creatinine and its relation to cardiovascular disease risk variables in children and young adults from a biracial community. The Bogalusa Heart Study. Agamah ES, et al. **J Lab Clin Med** 1990 Sep;116(3):327–34

Reciprocal creatinine slopes often give erroneous estimates of progression of chronic renal failure. Walser M, et al. **Kidney Int Suppl** 1989 Nov;27:S81–5

Isolation–induced renal functional changes in rats from four breeders. Vadiei K, et al. **Lab Anim Sci** 1990 Jan;40(1):56–9

Effect of heat treatment on plasma creatinine measurement. Evans GO, et al. **Med Lab Sci** 1990 Jul;47(3):234–5

Serum creatinine in patients with spinal cord injury. Kaji D, et al. **Mt Sinai J Med** 1990 May;57(3):160–4

Peritoneal clearances with different dialysis regimens in children undergoing continuous cycling peritoneal dialysis. Leichter HE, et al. **Nephrol Dial Transplant** 1989; 4(10):893–9

The neopterin/creatinine ratio cannot be used to diagnose rejection episodes in renal transplant recipients [letter; comment] Bäckman L, et al. **Nephron** 1989;53(3):287 Comment on: Nephron 1988;49(3):259–60.

Use of angiotensin–converting enzyme inhibitors for the preservation of kidney function. A retrospective study. Mann JF, et al. **Nephron** 1990;55 Suppl 1:38–42

Prospective study of the impact of hypertension upon kidney function in diabetes mellitus. Walker WG, et al. **Nephron** 1990;55 Suppl 1:21–6

The consequences of tubulo–interstitial changes for renal function in glomerulopathies. A morphometric and cytological analysis. Bohle A, et al. **Pathol Res Pract** 1990 Feb;186(1):135–44

Predicted reciprocal serum creatinine at age 10 years as a measure of renal function in children with nephropathic cystinosis treated with oral cysteamine. Gahl WA, et al. **Pediatr Nephrol** 1990 Mar;4(2):129–35

Screening of kidney function by plasma creatinine and single–sample 51Cr–EDTA clearance determination—a comparison. Groth S, et al. **Scand J Clin Lab Invest** 1989 Dec;49(8):707–10

Monitoring of the serum neopterin/creatinine ratio in renal transplantation. Hacini D, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):2185–6

Atheromatous embolization as a cause of increasing creatinine levels in a renal transplant patient. Jennings WC, et al. **Transplant Proc** 1990 Feb;22(1):279

Are serum creatinine levels adequate to identify the onset of chronic cyclosporine A nephrotoxicity? Mobb GE, et al. **Transplant Proc** 1990 Aug;22(4):1708–10

Long–term serum creatinine after radical nephrectomy [letter] Aragona F. **Urology** 1990 Jul;36(1):99

Long–term serum creatinine values after radical nephrectomy. Wishnow KI, et al. **Urology** 1990 Feb; 35(2):114–6

[Creatinine clearance as a goal for the glomerular filtration rate (letter)] Stellfeld M, et al. **Ugeskr Laeger** 1989 Oct 30;151(44):2902 **(Dan)**

[Serum creatinine level as a measure of kidney function] Halma C. **Ned Tijdschr Geneeskd** 1990 Aug 4; 134(31):1492–5 **(Dut)**

[Flavone acetic acid and LY 186641 interfere in various ways in Jaffé's reaction] Bonnay M, et al. **Bull Cancer (Paris)** 1989;76(8):839–41 **(Fre)**

[Determination of some usual and frequent values in clinical biochemistry in a Polynesian population sample. Comparison with French reference values] Hasselot N, et al. **Med Trop (Mars)** 1989 Apr–Jun;49(2):179–82 (Eng. Abstr.) **(Fre)**

[Monitoring of renal grafts. Value of the determination of serum neopterin and neopterin versus creatinine ratio] Hacini J, et al. **Presse Med** 1989 Nov 25;18(39):1913–6 (Eng. Abstr.) **(Fre)**

[Pathologic changes in selected laboratory parameters in patients with delirium tremens] Schmickaly R, et al. **Z Arztl Fortbild (Jena)** 1989;83(23):1171–4 **(Ger)**

[Correlation of thrombocyte reactivity and serum levels of HbA1c, cholesterol and creatinine in diabetes mellitus] Tóth L, et al. **Orv Hetil** 1990 Feb 25;131(8):405–6, 409–10 (34 ref.) (Eng. Abstr.) **(Hun)**

[Valproic acid induced pseudohypercreatininemia] Fukazawa H. **No To Hattatsu** 1990 Jan;22(1):86–7 **(Jpn)**

[Studies of the effect of gentamicin on the kidneys of healthy young rats. I. Effect of gentamicin on serum urea and creatinine levels and urinary protein levels in experimental animals] Rymgayllo–Kątska M. **Pediatr Pol** 1989 Jul; 64(7):449–55 (Eng. Abstr.) **(Pol)**

[Relation between serum levels of C–terminal fragment, beta 2 microglobulin and creatinine in patients with chronic nephropathies at different stages of the disease] Kowalski D, et al. **Wiad Lek** 1989 Oct 1–Nov 1;42(19–21):1038–43 (Eng. Abstr.) **(Pol)**

[Plasma renin activity, creatinine and uric acid in the serum of patients with essential hypertension] Pješčák M, et al. **Vnitr Lek** 1990 Jan;36(1):59–63 (Eng. Abstr.) **(Slo)**

[Value of the BUN/creatinine ratio in localizing digestive system hemorrhage in children] Prieto Bozano G, et al. **An Esp Pediatr** 1990 Mar;32(3):222–4 (Eng. Abstr.) **(Spa)**

[Gentamicin and amikacin nephrotoxicity: comparative study in patients with initially normal renal function] Ballesteros J, et al. **Rev Med Chil** 1989 Jan;117(1):10–7 (Eng. Abstr.) **(Spa)**

[Serum creatinine content of questionable value in screening for renal disease] Mattiasson I, et al. **Lakartidningen** 1990 May 23;87(21):1879–80 (Eng. Abstr.) **(Swe)**

ISOLATION & PURIFICATION

Dialyzer urea and creatinine clearances are not significantly altered in erythropoietin treated maintenance hemodialysis patients. Delano BG, et al. **ASAIO Trans** 1990 Jan–Mar; 36(1):36–9

METABOLISM

Paracellular intestinal absorption of glucose, creatinine, and mannitol in normal animals: relation to body size. Pappenheimer JR. **Am J Physiol** 1990 Aug;259(2 Pt 1):G290–9

Oral cimetidine improves the accuracy and precision of creatinine clearance in lupus nephritis. Roubenoff R, et al. **Ann Intern Med** 1990 Oct 1;113(7):501–6

Prediction of creatinine clearance from plasma creatinine: comparison of five formulae. Robertshaw M, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):275–80

Pharmacokinetics of cefpiramide in healthy volunteers, patients with various degrees of renal dysfunction, and patients on hemodialysis. Ohkawa M, et al. **Chemotherapy** 1989;35(6):416–22

Efficacy of endogenous creatinine clearance in diabetic patients. Eriksson CG, et al. **Diabetes Res** 1989 Dec; 12(4):183–7

Tubular secretion of creatinine and its plasma concentration. Schück O. **Int J Clin Pharmacol Ther Toxicol** 1990 Mar; 28(3):127–8

Glomerulotubular responses to acute protein load: changes in creatinine and sodium handling. Laville M, et al. **Kidney Int Suppl** 1989 Nov;27:S59–63

Creatinine filtration, secretion and excretion during progressive renal disease. Modification of Diet in Renal Disease (MDRD) Study Group. Levey AS, et al. **Kidney Int Suppl** 1989 Nov;27:S73–80

Influence of an inhibitor of monoaminooxidase (nialamide) on the serum levels, urinary excretion and plasma clearance of urea, uric acid and creatinine in adult and growing rats. Lopez Aliaga I, et al. **Nahrung** 1989;33(6):575–81

Short-term effect of captopril on renal haemodynamics in chronic renal failure. Smith WG, et al. **Nephrol Dial Transplant** 1989;4(8):696–700

Renal function in conscious dogs: potential effect of gender on measurement. Izzat NN, et al. **Res Exp Med (Berl)** 1989; 189(5):371–9

Parenteral nutrition including amino acids fails to increase creatinine clearance in catabolic patients. Jacobsen BA, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):427–30

[The relationship between creatinine clearance and glomerular filtration rate in the critically ill patient] Smit JC, et al. **S Afr Med J** 1990 Sep 1;78(5):254–7 (Eng. Abstr.) **(Afr)**

[Peritoneal equilibration test] Morduchowicz G, et al. **Harefuah** 1990 Mar 15;118(6):312–5 (Eng. Abstr.) **(Heb)**

[The effect of pharmacologic agents on transperitoneal elimination of low-molecular compounds during peritoneal dialysis] Grzegorzewska A. **Pol Arch Med Wewn** 1989 Aug–Sep;82(2–3):65–70 **(Pol)**

[Protein composition of blood serum and the products of nitrogen metabolism in humans during long-term hypokinesia] Zaitseva LB, et al. **Kosm Biol Aviakosm Med** 1989 Sep–Oct;23(5):50–4 (Eng. Abstr.) **(Rus)**

[Changes in creatinine clearance and fractional sodium excretion by the remaining kidney after nephrectomy of the contralateral diseased kidney in the adult] Torrubia Romero FJ, et al. **Arch Esp Urol** 1990 Jan–Feb;43(1):5–11 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Comparison of creatinine and inulin clearances in multiple trauma. Freysz M, et al. **Biomed Pharmacother** 1990; 44(3):175–80

Correlation between measured creatinine clearance and calculated creatinine clearance in ovarian cancer patients. Chambers JT, et al. **Gynecol Oncol** 1990 Jan;36(1):66–8

Is renal lithium clearance altered in essential hypertension? Hla-Yee-Yee, et al. **J Hypertens** 1989 Dec;7(12):955–60

Prediction from creatinine clearance of thrombocytopenia and recommended dose in patients receiving (glycolato-O,O')-diammine platinum (II) (NSC 375101D). Sasaki Y, et al. **Jpn J Cancer Res** 1990 Feb;81(2):196–200

Relationship between values of bioelectrical impedance and creatinine clearance. Smythe MA, et al. **Pharmacotherapy** 1990;10(1):42–6

[Clearance of oxypurines in normal subjects and in gout patients subjected to a purine-free diet. Effects of allopurinol] Porcelli B, et al. **Boll Soc Ital Biol Sper** 1989 Nov;65(11):1105–10 (Eng. Abstr.) **(Ita)**

PHARMACOLOGY

[The effect of serotonin on the neuronal reactions of the sensorimotor cortex evoked by tactile and conditional acoustic stimulation] Storozhuk VM, et al. **Neirofiziologiia** 1990;22(3):337–47 (Eng. Abstr.) **(Rus)**

TOXICITY

[The myoelectrical activity of the gastroduodenal area in ulcer formation due to serotonin] Shemerovskiĭ KA. **Biull Eksp Biol Med** 1989 Sep;108(9):285–7 (Eng. Abstr.) **(Rus)**

URINE

The determination of urinary fluoride/creatinine ratio (Q) in monitoring fluoride intake. Kertész P, et al. **Acta Physiol Hung** 1989;74(3–4):209–14

Urinary excretion of polyamines: importance of circadian rhythm, age, sex, menstrual cycle, weight, and creatinine excretion. Pöyhönen MJ, et al. **Am J Clin Nutr** 1990 Oct; 52(4):746–51

Determination of excretion of inulin, creatinine, sodium sulfanilate, and phenolsulfonphthalein to assess renal function in goats. Brown SA, et al. **Am J Vet Res** 1990 Apr;51(4):581–6

Renal excretion of creatinine, electrolytes, protein, and enzymes in healthy sheep. Garry F, et al. **Am J Vet Res** 1990 Mar;51(3):414–9

Twenty-four hour urinary protein loss in healthy cats and the urinary protein-creatinine ratio as an estimate. Monroe WE, et al. **Am J Vet Res** 1989 Nov;50(11):1906–9

Urinary uric acid:creatinine ratio, serum erythropoietin, and blood 2,3-diphosphoglycerate in patients with obstructive sleep apnea. McKeon JL, et al. **Am Rev Respir Dis** 1990 Jul;142(1):8–13

Fasting urinary hydroxyproline: creatinine ratios in silicosis. Ng TP, et al. **Ann Acad Med Singapore** 1989 Nov; 18(6):692–5

Accuracy of creatinine clearance in measuring glomerular filtration rate in patients with systemic lupus erythematosus without clinical evidence of renal disease. Ratain JS, et al. **Arthritis Rheum** 1990 Feb;33(2):277–80

Biological monitoring screening of patients provided antineoplastic drugs including adriamycin, cyclophosphamide, 5-fluorouracil, methotrexate, and vincristine. Newman MA, et al. **Cancer Res** 1990 Jun 1; 50(11):3351–66

Microtiter plate techniques for estimating urinary calcium, protein, and creatinine [letter] Phillipou G, et al. **Clin Chem** 1990 Jul;36(7):1385

How should urinary cotinine concentrations be adjusted for urinary creatinine concentration? Thompson SG, et al. **Clin Chim Acta** 1990 Mar 15;187(3):289–95

The value of urine creatinine analysis in the evaluation on Schilling tests. Heironimus JD, et al. **Clin Nucl Med** 1990 Mar;15(3):181–2

Creatinine clearance estimation in protein-malnourished patients. Boyce EG, et al. **Clin Pharm** 1989 Oct;8(10):721–6

Excretion of electrolytes, free cortisol and aldosterone-18-oxo-glucuronide in 24-hr urines of the Mongolian gerbil (Meriones unguiculatus): effect of lysine-vasopressin and adrenocorticotrophin administration, and of changes in sodium balance. Fenske M. **Comp Biochem Physiol [A]** 1990;95(2):259–65

The value of the amylase/creatinine clearance ratio in the diagnosis of acute pancreatitis. Solomon AR Jr. **CRC Crit Rev Clin Lab Sci** 1978;9(4):367–80 (83 ref.)

Hyperphosphaturia and hypermagnesuria in children with IDDM. Ponder SW, et al. **Diabetes Care** 1990 Apr; 13(4):437–41

Effect of ketones and glucose on the estimation of urinary creatinine: implications for microalbuminuria screening. Watts GF, et al. **Diabetic Med** 1990 Mar–Apr;7(3):263–5

Creatinine clearance revisited—simplified for calculation [letter] Onuigbo MA. **East Afr Med J** 1989 Dec;66(12):856, 857–9

Is the CAm/CCr ratio of value for the diagnosis of pancreatitis? Levitt MD, et al. **Gastroenterology** 1978 Jul; 75(1):118–9

Comparison of urinary protein concentration and protein/creatinine ratio vs routine microscopy in urinalysis of dogs: 500 cases (1987–1988). Fettman MJ. **J Am Vet Med Assoc** 1989 Oct 1;195(7):972–6

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography. Assmann B, et al. **J Chromatogr** 1990 Feb 23;525(2):277–85

Urinary creatinine excretion is not stable: a new method for assessing urinary toxic substance concentrations. Greenberg GN, et al. **J Occup Med** 1989 Oct;31(10):832–8

Creatinine concentration and urine flow. Verplanke AJ, et al. **J Occup Med** 1990 Aug;32(8):762–6

Quantitation of proteinuria with urinary protein/creatinine ratios and random testing with dipsticks in nephrotic children. Abitbol C, et al. **J Pediatr** 1990 Feb;116(2):243–7

Fasting urinary calcium/creatinine and hydroxyproline/creatinine values in young women with amenorrhoea and in matched eumenorrhoeic controls. Goulding A, et al. **N Z Med J** 1989 Dec 13;102(881):629–30

[Is there a correlation between Nordin's index and the areas of bone resorption measured by histomorphometry?] Kuntz JL, et al. **Rev Rhum Mal Osteoartic** 1990 Apr 25; 57(4):317–8 **(Fre)**

[Study on urinary low molecular protein and enzyme in primary vesico-ureteral reflux patients] Takeda M, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Mar;81(3):454–60 (Eng. Abstr.) **(Jpn)**

[Protein/creatinine index in isolated samples of urine for evaluation of 24-hour proteinuria] Pestalozzi MS, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Mar–Apr; 44(2):58–62 (Eng. Abstr.) **(Por)**

CREATIVENESS

Research innovations: a contradiction of terms? [editorial] Chinn PL. **ANS** 1990 Apr;12(3):vi

Masculinity, femininity, and musical composition psychological and psychoendocrinological aspects of musical and spatial faculties. Hassler M, et al. **Arch Psychol (Frankf)** 1989;141(1):71–84

Alcohol input and creative output. Ludwig AM. **Br J Addict** 1990 Jul;85(7):953–63

Creativity in clinical research. Katerndahl DA. **Fam Pract Res J** 1989 Fall–Winter;9(1):5–8

Price of no restraints [editorial] Huey FL. **Geriatr Nurs (New York)** 1990 Mar–Apr;11(2):57

Age-related changes in the likelihood of major contributions. Mumford MD, et al. **Int J Aging Hum Dev** 1989; 29(3):171–94

Age and creative productivity: nonlinear estimation of an information-processing model. Simonton DK. **Int J Aging Hum Dev** 1989;29(1):23–37

Ah! Aha! Haha! Aschenbrener CA. **Iowa Med** 1990 Apr; 80(4):179–80

Medicine and the creative connection. Duggan A. **Iowa Med** 1990 Apr;80(4):189–93

Artistic expression in spontaneous paintings of depressed patients. Assael M, et al. **Isr J Psychiatry Relat Sci** 1989; 26(4):223–43 (30 ref.)

The assets of the mentally handicapped: the interplay of mental illness and creativity. Fromm-Reichmann F. **J Am Acad Psychoanal** 1990 Spring;18(1):47–72

Transformations of unconscious fantasy in art. Trosman H. **J Am Psychoanal Assoc** 1990;38(1):47–59

Theories of creativity. McConathy DA. **J Biocommun** 1990; 17(2):11–5

Artifact in the hypnosis-creativity relationship. Jackson LM, et al. **J Gen Psychol** 1989 Oct;116(4):333–44

Personality assessment with children of superior intelligence: divergence versus psychopathology. Gallucci NT. **J Pers Assess** 1989 Winter;53(4):749–60

Psychological assessment of an artist and impostor. Lewis CN. **J Pers Assess** 1990 Summer;54(3–4):656–70

The nursing shortage: dynamics and solutions. The art of creative solutions. Cournoyer PR. **Nurs Clin North Am** 1990 Sep;25(3):581–6 (21 ref.)

Dream images as a technique for the study of creative processes. Gaines R, et al. **Percept Mot Skills** 1990 Apr; 70(2):540–2

Use of a motor creativity test with young learning disabled boys. Holguin O, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1315–8

Empathy, self-esteem and creativity among junior ballet dancers. Kalliopuska M. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1227–34

Dreams and imaginative processes in American and Balinese artists. Gaines R, et al. **Psychiatr J Univ Ott** 1990 Jun; 15(2):107–10

"A girl, almost". R. M. Rilke's false female self. Shahly V. **Psychoanal Rev** 1989 Fall;76(3):425–46

Oedipal politics and scientific creativity. Freud's 1915 phylogenetic fantasy. Silverstein B. **Psychoanal Rev** 1989 Fall;76(3):403–24

New lamps for old? Reflections from and on Phyllis Greenacre's "Childhood of the Artist". Spitz EH. **Psychoanal Rev** 1989 Winter;76(4):557–66

Music of the self and others. Longitudinal observations on musical giftedness. Pruett KD. **Psychoanal Study Child** 1989;44:87–100

Developmental assumptions in literary criticism and their implications for conceptions of continuity and change in literary creativity. Cohen-Shalev A, et al. **Psychol Aging** 1990 Mar;5(1):79–85

The swan-song phenomenon: last-works effects for 172 classical composers. Simonton DK. **Psychol Aging** 1989 Mar;4(1):42–7

Creative thinking in mentally retarded deaf adolescents. Johnson RA. **Psychol Rep** 1990 Jun;66(3 Pt 2):1203–6

Learning style, repeated stimuli, and originality in intellectually gifted adolescents. Masten WG. **Psychol Rep** 1989 Dec;65(3 Pt 1):751–4

Approaches to studying and creativity: is there a link? Richardson AG. **Psychol Rep** 1989 Dec;65(3 Pt 2):1089–90

[Neurosurgery and creativity] Phéline C. **Can J Neurol Sci** 1990 Feb;17(1):49–52 **(Fre)**

[An early, on the borderline between dream and transference, unconscious fantasy of Freud on the psychoanalytic situation (1898). A contribution to psychoanalytic creativity] Danckwardt JF. **Psyche (Stuttg)** 1989 Sep; 43(9):849–83 (Eng. Abstr.) **(Ger)**

[Regression in the artistic creations of psychiatric patients] Zinggl W, et al. **Z Klin Psychol Psychopathol Psychother** 1990;38(1):21–36 (Eng. Abstr.) **(Ger)**

[On the assessment criterion for creative thinking] Takano R. **Shinrigaku Kenkyu** 1989 Apr;60(1):17–23 (Eng. Abstr.) **(Jpn)**

CREDENTIALING

With or without fancy initials, sign your name with pride [editorial] Palmer PN. **AORN J** 1990 Jul;52(1):11–2

Training in laser bronchoscopy and proposals for credentialing. Kvale PA. **Chest** 1990 Apr;97(4):983–9

Medical specialty credentialing in the United States. Langsley DG. **Clin Orthop** 1990 Aug;(257):22–8

Surgery by non-surgeons [letter; comment] Yale JF. **Conn Med** 1989 Dec;53(12):755 Comment on: Conn Med 1989 Sep;53(9):509–12.

The development of test specifications for the registration examinations. Webb LC, et al. **J Am Diet Assoc** 1990 Aug; 90(8):1134–5

Beyond the RD. Wellman NS, et al. **J Am Diet Assoc** 1990 Aug;90(8):1117–21

Credentialing of the cardiac sonographer: the need for unification. Adams D, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):100–2

Credentialing and ethics: the future of the health education profession [letter] Olds RS. **J Sch Health** 1990 Jan; 60(1):11–2

Retrospective evaluation of residents who have failed the ACVIM case report requirements [letter] Guilford G. **J Vet Intern Med** 1990 Mar–Apr;4(2):99–100

Access to information about physicians' credentials [letter] Devitt N. **N Engl J Med** 1990 Mar 29;322(13):937

Guidelines for combined training in emergency medicine and pediatrics leading to credentialing for ABEM and ABP examinations. **Pediatr Emerg Care** 1990 Jun;6(2):81–3

Debating the question of radiography degrees [letter] **Radiogr Today** 1990 Feb;56(633):26–9

LEGISLATION & JURISPRUDENCE

How accountable are you? Stiewing J. **Radiol Technol** 1989 Nov-Dec;61(2):133-5

Physician recruitment and credentialing. Roach WH Jr, et al. **Top Health Care Financ** 1990 Spring;16(3):36-48

ORGANIZATION & ADMINISTRATION

Centralized service for credentialing catches on. Koska MT. **Hospitals** 1990 May 20;64(10):66, 68

Does a medical qualification provide public protection? James AE Jr, et al. **J R Soc Health** 1989 Dec;109(6):193-6

STANDARDS

Through the looking glass: the opportunity for a unified vision for SOPHE 38th SOPHE presidential address. Eriksen MP. **Health Educ Q** 1990 Spring;17(1):3-11

Credentialing process for TMJ arthroscopy [letter] Ripley JF. **J Oral Maxillofac Surg** 1989 Nov;47(11):1240

Residual lesions and early recurrent stenosis after carotid endarterectomy [letter; comment] Gale SS. **J Vasc Surg** 1989 Dec;10(6):705-7 Comment on: J Vasc Surg 1987 May;5(5):731-7.

Guidelines for hospital privileges in vascular surgery. Moore WS, et al. **J Vasc Surg** 1989 Dec;10(6):678-82

Response from the Credentials Committee [letter] Garvey MS. **J Vet Intern Med** 1990 Mar-Apr;4(2):99

Physician's credentials [letter; comment] **N Engl J Med** 1990 Feb 8;322(6):409-10 Comment on: N Engl J Med 1989 Aug 17;321(7):466-8.

American Academy of Pediatrics Committee on Hospital Care: Medical staff appointment and delineation of pediatric privileges in hospitals. **Pediatrics** 1990 Apr; 85(4):607-17

CREEPING ERUPTION see **LARVA MIGRANS**

CREMATION see **MORTUARY PRACTICE**

CREOSOTE see under **CRESOLS**

CRESOLS

Use of phenolic and chlorocresol disinfectants near dairy premises [letter] [see comments] Daykin JM. **Vet Rec** 1990 Feb 3;126(5):121 Comment in: Vet Rec 1990 Mar 10;126(10):249.

[Ovulation induction with cyclofenil] Ruiz Velasco V. **Ginecol Obstet Mex** 1977 Aug;42(250):119-26 (18 ref.) (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

[Comparative evaluation of a new colon preparation method prior to a double-contrast barium enema: toward discontinuation of the cleansing enema] Mahieu PH. **J Belge Radiol** 1989 Dec;72(6):475-9 (Eng. Abstr.) **(Fre)**

[A comparative study of methods of preparing the colon for a double-contrast study: Prepacol versus ricinus capsules with a cleansing enema] Mundinger A, et al. **Radiologe** 1990 Jan;30(1):34-8 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Morphological consequences of bisacodyl on normal human rectal mucosa: effect of a prostaglandin E1 analog on mucosal injury. Saunders DR, et al. **Gastrointest Endosc** 1990 Mar-Apr;36(2):101-4

Cresylate [letter; comment] Recsei AA. **Otolaryngol Head Neck Surg** 1990 Feb;102(2):202-3 Comment on: Otolaryngol Head Neck Surg 1989 Feb;100(2):134-6.

ANALYSIS

Analysis of beechwood creosote by gas chromatography-mass spectrometry and high-performance liquid chromatography. Ogata N, et al. **Res Commun Chem Pathol Pharmacol** 1989 Dec; 66(3):411-23

ISOLATION & PURIFICATION

Adsorption removal of cresol by granular activated carbon for medical waste water treatment. Tanada M, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):170-6

METABOLISM

Presumptive identification of Clostridium difficile by detection of p-cresol in prepared peptone yeast glucose broth supplemented with p-hydroxyphenylacetic acid. Sivsammye G, et al. **J Clin Microbiol** 1990 Aug; 28(8):1851-3

PHARMACOKINETICS

Pharmacokinetics and metabolism of a single subneurotoxic oral dose of tri-o-cresyl phosphate in hens. Suwita E, et al. **Arch Toxicol** 1990;64(3):237-41

Absorption, distribution, and elimination of a single oral dose of [14C]tri-o-cresyl phosphate in hens. Abou-Donia MB, et al. **Toxicology** 1990 Mar 30;61(1):13-25

PHARMACOLOGY

Effect of bis(p-hydroxyphenyl)-cyclohexylidenemethane (F6060) on the conversion of pregnenolone to delta 4-3-ketosteroids in vitro. Larsson H, et al. **Acta Endocrinol (Copenh)** 1967 Aug;55(4):673-84

Anti-inflammatory drugs and the complement system. A condensation product of metacresolsulfonic acid and formaldehyde prevents instantly the complement activation in vitro. Gancevici GG, et al. **Arch Roum Pathol Exp Microbiol** 1989 Apr-Jun; 48(2):157-62

Inactivation of dopamine beta-hydroxylase by p-cresol: evidence for a second, minor site of covalent modification at tyrosine 357. Southan C, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):256-8

Preservatives in insulin preparations impair leukocyte function. In vitro study. van Faassen I, et al. **Diabetes Care** 1990 Jan;13(1):71-4

[Evaluation of rapid colon preparation by oral intake of dulcolax for colorectal surgery] Liou TY, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Aug;44(2):103-8 (Eng. Abstr.) **(Chi)**

POISONING

Methemoglobinemia with oxidized hemoglobins and modified hemoglobins found in bloods of workers handling aromatic compounds and in those of a man who drank cresol solution. Minami M, et al. **Biomed Biochim Acta** 1990;49(2-3):S327-33

An outbreak of tricresyl phosphate poisoning in Calcutta, India [letter] Srivastava AK, et al. **Food Chem Toxicol** 1990 Apr;28(4):303-4

THERAPEUTIC USE

[Sterility from hormonal causes and unexplained sterility. Treatment with cyclofenil. Double-blind controlled study] Cabau A, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990; 19(1):96-101 (Eng. Abstr.) **(Fre)**

[The sterile woman, the physician and time. Number of spontaneous pregnancies in patients with functional sterility] Cabau A, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990;19(1):102-6 (Eng. Abstr.) **(Fre)**

[Medium term treatment and prophylaxis of dysfunctional metrorrhagia in adolescence] Mossa B, et al. **Minerva Ginecol** 1989 Oct;41(10):503-7 (Eng. Abstr.) **(Ita)**

TOXICITY

Hepatic neoplasms in the mummichog Fundulus heteroclitus from a creosote-contaminated site. Vogelbein WK, et al. **Cancer Res** 1990 Sep 15;50(18):5978-86

Effect of DNOC, Ferbam and Imidan exposure on mouse sperm morphology. Quinto I, et al. **Mutat Res** 1989 Dec; 224(4):405-8

Myelinated nerve fiber regeneration following organophosphorus ester-induced delayed neuropathy. Jortner BS, et al. **Neurotoxicology** 1990 Winter;10(4):717-26

The interaction of Sertoli and Leydig cells in the testicular toxicity of tri-o-cresyl phosphate. Chapin RE, et al. **Toxicol Appl Pharmacol** 1990 Jul;104(3):483-95

Protease activity in brain, nerve, and muscle of hens given neuropathy-inducing organophosphates and a calcium channel blocker. el-Fawal HA, et al. **Toxicol Appl Pharmacol** 1990 Mar 15;103(1):133-42

Decreased phosphofructokinase activity during the development of triorthocresyl-phosphate-induced delayed neuropathy. Hernandez AF, et al. **Toxicol Lett** 1989 Oct; 49(1):35-40

URINE

A case of thinner sniffing: Part 2. Urinary excretion of cresols and methanol after inhalation of toluene and methanol. Kira S, et al. **Ind Health** 1989;27(4):175-80

[Levels of metabolites of selected chemical compounds in the urine of workers in pitch coke plant] Bieniek G, et al. **Med Pr** 1989;40(3):183-91 (Eng. Abstr.) **(Pol)**

CRETINISM

On goiters and the stupidity which in some countries accompanies them. Endeavours of Vincenzo Malacarne, from Saluzzo. Costa A. **Panminerva Med** 1989 Apr-Jun; 31(2):97-106 (79 ref.)

COMPLICATIONS

An arteriovenous fistula from an aberrant right subclavian artery to the superior caval vein in a congenitally myxoedematous adult. Wong CK, et al. **Int J Cardiol** 1989 Oct;25(1):126-9

CONGENITAL

Congenital hypothyroidism: physiological and psychological factors in early development. Murphy GH, et al. **J Child Psychol Psychiatry** 1990 Jul;31(5):711-25

DRUG THERAPY

Supplementary iodine fails to reverse hypothyroidism in adolescents and adults with endemic cretinism. Boyages SC, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):336-41

EPIDEMIOLOGY

[Diagnosis and intervention in public health medicine] Paccaud F. **Rev Med Suisse Romande** 1990 May; 110(5):463-70 **(Fre)**

GENETICS

Clinical pattern and the genetics of the fetal iodine deficiency disorder (endemic cretinism): results of a field study in Highland Ecuador. Held KR, et al. **Am J Med Genet** 1990 Jan;35(1):85-90

IMMUNOLOGY

Thyroid autoimmunity and endemic cretinism [letter; comment] Medeiros-Neto G, et al. **Lancet** 1990 Jan 13; 335(8681):111 Comment on: Lancet 1989 Sep 2;2(8662):529-32.

PHYSIOPATHOLOGY

[A comparative study of EEG in patients with neurological and myxedematous cretinism] Wu BM, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Aug;28(8):450-3, 507 (Eng. Abstr.) **(Chi)**

PREVENTION & CONTROL

[Iodine supplementation in the province of Styria] Eber O, et al. **Wien Med Wochenschr** 1990 May 15;140(9):241-4 (Eng. Abstr.) **(Ger)**

CREUTZFELDT-JAKOB SYNDROME see **JAKOB-CREUTZFELDT SYNDROME**

CRF-41 see **CORTICOTROPIN-RELEASING HORMONE**

CRI-DU-CHAT SYNDROME

[The cri-du-chat syndrome] Hotić L, et al. **Med Arh** 1986; 40(3):119-22 (Eng. Abstr.) **(Ser)**

DIAGNOSIS

[Neuropsychiatric and neuropathologic findings in an adult case of cri-du-chat syndrome (Lejeune syndrome, crying cat syndrome)] Fehlow P, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Dec; 41(12):741-5 (Eng. Abstr.) **(Ger)**

GENETICS

5p;12q translocation with manifestations of cri du chat syndrome and Marfanoid arachnodactyly. Zhang SZ, et al. **Clin Genet** 1990 Feb;37(2):153-7

The cri-du-chat syndrome with an apparently normal karyotype. McGavin DD, et al. **Lancet** 1967 Aug 12; 2(7511):326-30 (11 ref.)

[The cat cry (cri du chat) syndrome: report of a case with review of 10 cases at the National Taiwan University Hospital] Chuang SM, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun;88(6):635-8, 628-9 (26 ref.) (Eng. Abstr.) **(Chi)**

METABOLISM

[Cri-du-chat disease: plasma and urinary amino acids] Lejeune J, et al. **Ann Genet** 1990;33(1):16-20 (Eng. Abstr.) **(Fre)**

CRIB DEATH see **SUDDEN INFANT DEATH**

CRIBRIFORM PLATE see **ETHMOID BONE**

CRIBS see **INFANT EQUIPMENT**

CRICETIDAE

Comparative studies on susceptibility of the mouse (Mus musculus) and the vole (Microtus arvalis) to Listeria monocytogenes and Erysipelothrix rhusiopathiae. Kemenes F, et al. **Acta Microbiol Hung** 1989;36(2-3):133-6

Hispid cotton rats (Sigmodon hispidus) as a source for infecting immature Dermacentor variabilis (Acari: Ixodidae) with Rickettsia rickettsii. Gage KL, et al. **J Med Entomol** 1990 Jul;27(4):615-9

[Amino acid sequence of Ondatra myoglobin (Ondatra zibethica). Characteristic features of myoglobins from semiaquatic animals] Sukhomlinov BF, et al. **Biokhimiia** 1989 Jun;54(6):956-64 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

Comparative study of visual inter and intrahemispheric cortico-cortical connections in five native Chilean rodents. Bravo H, et al. **Anat Embryol (Berl)** 1990;181(1):67-73

The effects of increased dietary cellulose on the anatomy, physiology and behaviour of captive water voles, Arvicola terrestris (L.) (Rodentia: Microtinae). Woodall PF. **Comp Biochem Physiol [A]** 1989;94(4):615-21

Evolution of spatial cognition: sex-specific patterns of spatial behavior predict hippocampal size. Jacobs LF, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6349-52

The hypothalamo-hypophysial system of the lemming, Dicrostonyx torquatus Pallas. III. Population aspects of

neuroendocrine regulation. Arshavskaya TV, et al. **Z Mikrosk Anat Forsch** 1989;103(4):627–47

The hypothalamo–hypophysial system of the lemming Dicrostonyx torquatus Pallas. IV. Influence of experimental animal cooling on the ultrastructure of the hypothalamo–posthypophysial neurosecretory system. Arshavskaya TV, et al. **Z Mikrosk Anat Forsch** 1989; 103(4):648–63

BLOOD

Anemia at the onset of winter in the meadow vole (Microtus pennsylvanicus). Mihok S, et al. **Comp Biochem Physiol [A]** 1989;94(2):289–304

[Biology of the volcano mouse (N. a. alstoni). XVII. Blood chemistry of animals born in the laboratory (F1)] González-Muñiz C, et al. **Arch Invest Med (Mex)** 1989 Apr–Jun;20(2):171–4 (Eng. Abstr.) **(Spa)**

GENETICS

The sex-determining zinc finger sequences in XY females of Akodon azarae (Rodentia, Cricetidae). Bianchi NO, et al. **Cytogenet Cell Genet** 1989;52(3–4):162–6

Meiotic behavior of gonosomically variant females of Akodon azarae (Rodentia, Cricetidae). Solari AJ, et al. **Cytogenet Cell Genet** 1989;52(1–2):57–61

Protein polymorphism and genetic distance in South American cricetid rodents of the genus Calomys. Gardenal CN, et al. **Genetica** 1990;80(3):175–80

Variable conservation of nucleolus organizer regions during karyotypic evolution in Microtidae. Sánchez A, et al. **Genome** 1990 Feb;33(1):119–22

The behavior during pachynema of a normal and an inverted Y chromosome in Microtus agrestis. Ashley T, et al. **Hereditas** 1989;111(3):281–94

Absence of synapsis during pachynema of the normal sized sex chromosomes of Microtus arvalis. Ashley T, et al. **Hereditas** 1989;111(3):295–304

Heterozygosity and gene flow in populations of Calomys laucha (Rodentia, Cricetidae). Garcia BA, et al. **Hereditas** 1990;112(2):179–86

[DNA–DNA hybridization and the phylogenetic relations in 2 genera of voles, Alticola and Clethrionomys (Microtinae: Rodentia)] Gileva EA, et al. **Dokl Akad Nauk SSSR** 1990;311(2):477–80 **(Rus)**

[Karyotyping of Holochilus venezuelae (Rodentia, Cricetidae)] Aguilera M, et al. **Acta Cient Venez** 1989; 40(3):198–207 (Eng. Abstr.) **(Spa)**

GROWTH & DEVELOPMENT

Long day lengths promote brain growth in meadow voles. Dark J, et al. **Brain Res Dev Brain Res** 1990 May 1; 53(2):264–9

Calomys laucha (Rodentia, Cricetidae): growth and breeding in laboratory conditions. Hodara VL, et al. **Lab Anim** 1989 Oct;23(4):340–4

[General principles of the development of the thyroid gland in lemmings from the Vrangel island in the dynamics of the population cycle] Khlynovskaia IV. **Arkh Anat Gistol Embriol** 1990 Apr;98(4):80–5 (44 ref.) **(Rus)**

METABOLISM

Effects of phenobarbital and 3-methylcholanthrene on the hepatic cytochrome P-450 metabolism of various alkoxyresorufin ethers in the cotton rat (Sigmodon hispidus). Novak J Jr, et al. **Comp Biochem Physiol [C]** 1989;94(2):543–5

Nocturnal increase in pineal melatonin production in two lemming species, Dicrostonyx hudsonius and D. groenlandicus. Reiter RJ, et al. **Gen Comp Endocrinol** 1990 May;78(2):322–5

Bioconcentration of fallout 137Cs by fungi and red-backed voles (Clethrionomys gapperi). Mihok S, et al. **Health Phys** 1989 Dec;57(6):959–66

In vitro studies of interactions between frequent and unique mRNAs and cytoplasmic factors from brain tissue of several species of wild timber voles of northern Eurasia, Clethrionomys glareolus, Clethrionomys frater and Clethrionomys gapperi: a new criticism to a modern molecular-genetic concept of biological evolution. Kuznetsov DA. **Int J Neurosci** 1989 Nov;49(1–2):43–59

Hepatic enzyme activities and plasma insulin concentrations in diabetic herbivorous voles. Arai T, et al. **Vet Res Commun** 1989;13(6):421–6

[Measurement of lactose concentrations in milk of Microtus montebelli with methylamine reaction] Oh-Izumi T, et al. **Jikken Dobutsu** 1989 Oct;38(4):353–5 (Eng. Abstr.) **(Jpn)**

PARASITOLOGY

Prevalence of Giardia spp. in beaver and muskrat populations in northeastern states and Minnesota: detection of intestinal trophozoites at necropsy provides greater sensitivity than detection of cysts in fecal samples. Erlandsen SL, et al. **Appl Environ Microbiol** 1990 Jan;56(1):31–6

Study on the population of the warble fly, Oestromyia leporina (Pallas. 1778) (Diptera, Hypodermatidae) in Bohemia. Volf P, et al. **Folia Parasitol (Praha)** 1990; 37(2):187–90

Larvae of the woodrat fleas Anomiopsyllus amphibolus and Atyphlocerus echis echis (Siphonaptera: Hystrichopsyllidae). Kucera JR. **J Med Entomol** 1990 Jul; 27(4):661–70

Differential distribution of immature Ixodes dammini (Acari: Ixodidae) on rodent hosts. Davidar P, et al. **J Parasitol** 1989 Dec;75(6):898–904

Coccidia of Brazilian mammals: Eimeria corticulata n. sp. (Apicomplexa: Eimeriidae) from the anteater Tamandua tetradactyla (Xenarthra: Myrmecophagidae) and Eimeria zygodontomyis n. sp. from the cane mouse Zygodontomys lasiurus (Rodentia: Cricetidae). Lainson R, et al. **J Protozool** 1990 Jan–Feb;37(1):51–4

Strongyloidiasis in cotton rats (Sigmodon hispidus) from central Oklahoma. Elangbam CS, et al. **J Wildl Dis** 1990 Jul;26(3):398–402

Occurrence and treatment of the mange mite Notoedres muris in marsh rats from South America. Klompen JS, et al. **J Wildl Dis** 1990 Jan;26(1):135–6

Bot fly parasitism (Rogenhofera bonaerensis) (Diptera, Cuterebridae) in the pampean grassland mouse (Akodon azarae), in Argentina. Zuleta GA, et al. **J Wildl Dis** 1990 Jan;26(1):11–7

Larvae of Taenia crassiceps (Cestoda): host specificity and localisation. Delvalle B. **Parasitol Res** 1989;76(2):181–2

[The ability of flea species on the common vole from mountainous Dagestan to transmit and preserve the causative agent of plague] Degtiareva LV, et al. **Parazitologiia** 1990 Mar–Apr;24(2):106–12 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Immunohistochemical investigations of the endocrine pancreas in normoglycemic sand rats (Psammomys obesus). Donev S, et al. **Acta Diabetol Lat** 1989 Oct–Dec; 26(4):309–13

Sexual dimorphism in brain weight of meadow voles: role of gonadal hormones. Whaling CS, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):270–5

The influence of multiple photoperiods and pinealectomy on gonads, pelage and body weight in male meadow voles, Microtus pennsylvanicus. Rhodes DH. **Comp Biochem Physiol [A]** 1989;93(2):445–9

The effects of increased dietary cellulose on the anatomy, physiology and behaviour of captive water voles, Arvicola terrestris (L.) (Rodentia: Microtinae). Woodall PF. **Comp Biochem Physiol [A]** 1989;94(4):615–21

Breeding of captive bank voles (Clethrionomys glareolus) related to dynamics of source populations. Hansson L. **J Reprod Fertil** 1990 Jul;89(2):769–72

Avoidance of used endometrial sites by blastocysts of the bank vole, Clethrionomys glareolus. Nerquaye-Tetteh JO, et al. **J Reprod Fertil** 1990 Jul;89(2):729–34

Patterns of sperm allocation across successive ejaculates in four species of voles (Microtus). Pierce JD Jr, et al. **J Reprod Fertil** 1990 Jan;88(1):141–9

Pregnancy, lactation and the oestrous cycle of the pouched mouse, Saccostomus campestris. Westlin-van Aarde LM. **J Reprod Fertil** 1989 Sep;87(1):155–62

Hormonal correlates of sexual behavior and ovulation in male-induced and postpartum estrus in female prairie voles. Carter CS, et al. **Physiol Behav** 1989 Dec;46(6):941–8

Simulated drought influences reproduction in male prairie voles. Nelson RJ, et al. **Physiol Behav** 1989 Nov; 46(5):849–52

Affiliative behavior in voles: effects of morphine, naloxone, and cross-fostering. Shapiro LE, et al. **Physiol Behav** 1989 Oct;46(4):719–23

Postimplantation pregnancy disruptions in meadow voles: relationship to variation in male sexual and aggressive behavior. Storey AE, et al. **Physiol Behav** 1990 Jan; 47(1):19–25

[The mechanism of digging in Arvicola terrestris and Spalax ehrenbergi: functional and evolutional studies] Laville E, et al. **Anat Anz** 1989;169(2):131–44 (Eng. Abstr.) **(Fre)**

[Kidney glomerular hemodynamics in the rodent Calomys callosus] Boim MA, et al. **Rev Soc Bras Med Trop** 1989 Jan–Mar;22(1):31–7 (Eng. Abstr.) **(Por)**

[The reaction of a population of redbacked voles (Clethrionomys glareolus) to pollution of the biogeocenosis by 137Cs] Il'enko AI, et al. **Dokl Akad Nauk SSSR** 1989; 309(5):1266–9 **(Rus)**

[Body mass as a factor determining the social status of male red voles] Sokolov VE, et al. **Dokl Akad Nauk SSSR** 1990; 310(2):498–501 **(Rus)**

[The cholin- and adrenergic mechanisms of the adaptation of the cardiac activity of diving animals during hypoxia] Kovalenko SG, et al. **Nerv Sist** 1989;28:21–8 **(Rus)**

[The postnatal ontogenetic characteristics of adrenal function in female water voles Arvicola terrestris with different fur colors] Bazhan NM, et al. **Zh Evol Biokhim Fiziol** 1989 Nov–Dec;25(6):736–41 (Eng. Abstr.) **(Rus)**

[Functional characteristics of the adrenals in the ontogeny of male water voles Arvicola terrestris with various fur colorings] Bazhan NM, et al. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):487–92 (Eng. Abstr.) **(Rus)**

[The postnatal ontogeny of gonadal endocrine function in the water vole Arvicola terrestris with differing coat colors] Bazhan NM, et al. **Zh Evol Biokhim Fiziol** 1990 Jan–Feb;26(1):56–61 **(Rus)**

PSYCHOLOGY

Sex differences in spatial ability and activity in two vole species (Microtus ochrogaster and M. pennsylvanicus). Gaulin SJ, et al. **J Comp Psychol** 1990 Mar;104(1):88–93

Effects of experience and motivation on symmetrical-maze performance in the prairie vole (Microtus ochrogaster). Gaulin SJ, et al. **J Comp Psychol** 1990 Jun;104(2):183–9

CRICETIDS see **CRICETIDAE**

CRICETINI see **HAMSTERS**

CRICETULUS see under **HAMSTERS**

CRICETUS see **HAMSTERS**

CRICOID CARTILAGE see under **LARYNGEAL CARTILAGES**

CRIGLER-NAJJAR SYNDROME see under **HYPERBILIRUBINEMIA, HEREDITARY**

CRIME

Cofactors in the commission of violent crimes: a self-psychology examination. Feldmann TB, et al. **Am J Psychother** 1990 Apr;44(2):172–9

Major events during the generic drug investigations. **Am Pharm** 1990 Jul;NS30(7):38–9

After the scandals: new generic counseling. Thompson LR. **Am Pharm** 1990 Jul;NS30(7):31–3

The "triangle of truth" [letter] Tofield JJ. **Ann Plast Surg** 1986 Mar;16(3):272

Socially disruptive behavior of ex-mental patients. Giovannoni JM, et al. **Arch Gen Psychiatry** 1967 Aug; 17(2):146–53

Hyperactive boys almost grown up. IV. Criminality and its relationship to psychiatric status. Mannuzza S, et al. **Arch Gen Psychiatry** 1989 Dec;46(12):1073–9

Victims of crime as victims of disaster. Taylor AJ. **Aust N Z J Psychiatry** 1989 Sep;23(3):403–6 (21 ref.)

Abuse of mentally handicapped adults [letter] Cooke LB. **BMJ** 1989 Aug 5;299(6695):392

Abuse of mentally handicapped adults [letter] Cooke LB. **BMJ** 1990 Jan 20;300(6718):193

Managing drug dealers who swallow the evidence. Marc B, et al. **BMJ** 1989 Oct 28;299(6707):1082

Drugs, alcohol and crime. Abstracts of the Society for the Study of Addiction to Alcohol and Other Drugs annual symposium. 16th and 17th November 1989, Leicester. **Br J Addict** 1989 Nov;84(11):1387–92

Links between drug misuse and crime. Bennett T. **Br J Addict** 1990 Jul;85(7):833–5

Eye injuries from assault with chemicals [see comments] Beare JD. **Br J Ophthalmol** 1990 Sep;74(9):514–8 Comment in: Br J Ophthalmol 1990 Sep;74(9):513.

The character of danger in psychiatric practice: are the mentally ill dangerous? Bloom JD. **Bull Am Acad Psychiatry Law** 1989;17(3):241–55 (54 ref.)

The criminalization of the mentally ill. Hoffman BF. **Can J Psychiatry** 1990 Mar;35(2):166–9

Militant morality: civil disobedience and bioethics. Cohen C. **Hastings Cent Rep** 1989 Nov–Dec;19(6):23–5

The fiery fight for animal rights. Jackson CM. **Hastings Cent Rep** 1989 Nov–Dec;19(6):37–9

Operation rescue: domestic terrorism or legitimate civil rights protest? Nathanson B. **Hastings Cent Rep** 1989 Nov–Dec; 19(6):28–32

To do or not to do? Singer P. **Hastings Cent Rep** 1989 Nov–Dec;19(6):42–4

AIDS and civil disobedience. Spiers HR. **Hastings Cent Rep** 1989 Nov–Dec;19(6):34–5

Physicians required by Medicare to sign attestation sheet [letter] McDonnell JT. **Hawaii Med J** 1989 Sep;48(9):355–6

Hiring former patients [letter] Laird M. **Hosp Community Psychiatry** 1990 Mar;41(3):332–3

Hospital nursery kidnappings are rare but devastating. Eubanks P. **Hospitals** 1990 Jun 20;64(12):64, 66

The MMPI profiles of narcotics addicts. II. Ethnic and criminal history effects. Weisman CP, et al. **Int J Addict** 1989 Sep;24(9):881–96

Crime and recovery time: Mednick revisited. Buikhuisen W, et al. **Int J Law Psychiatry** 1989;12(1):29–40

Impact of crime on the rural elderly. Grimes S, et al. **Ir Med J** 1990 Mar;83(1):22–3

Field test of the Cognitive Interview: enhancing the recollection of actual victims and witnesses of crime. Fisher RP, et al. **J Appl Psychol** 1989 Oct;74(5):722–7

The role of early aggressive behavior in the frequency, seriousness, and types of later crime. Stattin H, et al. **J Consult Clin Psychol** 1989 Dec;57(6):710–8

1989 Firth memorial lecture. Working together [published erratum appears in J Forensic Sci Soc 1990 Mar–Apr;30(2):118] Imbert P. **J Forensic Sci Soc** 1990 Jan–Feb;30(1):45–52

Victimization of black psychiatric patients [letter; comment] Henry DA. **J Natl Med Assoc** 1990 Feb;82(2):80, 88 Comment on: J Natl Med Assoc 1989 Mar;81(3):246–52.

On crime and punishment. Jordan HW. **J Natl Med Assoc** 1990 May;82(5):321, 324, 327 passim

Validity of self-reports of criminal activity in psychiatric inpatients. Convit A, et al. **J Nerv Ment Dis** 1990 Jan;

178(1):48–51
The measurement of criminal dangerousness as a personality construct: further validation of a research index. Heilbrun AB Jr. **J Pers Assess** 1990 Spring;54(1–2):141–8
Policing a violent society. Imbert P. **J R Soc Med** 1990 Jul; 83(7):425–6
Judicial amputation and human rights [letter] **Lancet** 1990 Sep 1;336(8714):572
Steroid–induced psychosis [letter] Turner P. **Lancet** 1989 Oct 14;2(8668):923
Correlates of crime among women offenders. Robertson G. **Med Sci Law** 1990 Apr;30(2):165–74
The strained quality of medical data. Musen MA. **Methods Inf Med** 1989 Jul;28(3):123–5
Occupational disease and ACC [letter] Graham LA, et al. **N Z Med J** 1989 Nov 22;102(880):620–1
Criminalization of drugs [letter] Burr A. **Nature** 1989 Nov 2;342(6245):12
Fraud in science: Indian zoologist suspected [news] Jayaraman KS. **Nature** 1989 Nov 23;342(6248):333
Scientific fraud: false accusations at London hospital [news] Webb B. **Nature** 1989 Sep 28;341(6240):268
Lost opportunity to combat AIDS: drug abusers in the criminal justice system. Wish ED, et al. **NIDA Res Monogr** 1990;93:187–209
"Genericgate". Marshall WJ. **Ohio Med** 1989 Nov; 85(11):831–2
Sensation seeking and self–reported criminality among student–athletes. Young TJ. **Percept Mot Skills** 1990 Jun; 70(3 Pt 1):959–62
Alienation and self–reported deviance. Young TJ. **Psychol Rep** 1989 Dec;65(3 Pt 1):727–30
Hearing on lab vandalism [news] Sun M. **Science** 1990 Feb 16;247(4944):801
Did the Romans know about the use of forceps? Perone N. **South Med J** 1990 May;83(5):555–6
Waivers of insurance deductibles—charity or crime? Barton HM 3d. **Tex Med** 1990 Mar;86(3):64–6
[The effect of alcohol on life– and health–threatening punishable offenses and their prevention] Mitlöhner M. **Cesk Zdrav** 1989 Jul;37(6–7):293–8 (Eng. Abstr.) **(Cze)**
[Sonography for intracorporeal drug smuggling] Sauer W, et al. **Dtsch Med Wochenschr** 1989 Dec 1;114(48):1865–8 (Eng. Abstr.) **(Ger)**
[Problems in the interaction of investigators from the agency of internal affairs with forensic medical experts] Sadovskii VV. **Sud Med Ekspert** 1989 Jul–Sep;32(3):7–11 **(Rus)**
[The computer sabotage of AIDS research: it is easy to clear a contaminated computer. Still not known who caused the coup] Lennholm B. **Lakartidningen** 1990 Feb 7;87(6):350–1 **(Swe)**

HISTORY

O'Connorite Bedlam: Feargus and his grand–nephew, Arthur. Geary LM. **Med Hist** 1990 Apr;34(2):125–43

LEGISLATION & JURISPRUDENCE

Victims of fraud: comparing victims of white collar and violent crime. Ganzini L, et al. **Bull Am Acad Psychiatry Law** 1990;18(1):55–63 (32 ref.)
The consequences of official labels: a research note on rights lost by the mentally ill, mentally incompetent, and convicted felons. Burton VS Jr. **Community Ment Health J** 1990 Jun;26(3):267–76
Evil heart? Or careless one? Whittenburg RW. **Geriatr Nurs (New York)** 1990 Jan–Feb;11(1):37
Former HHS official describes battles over safe harbor regulations. Burke M. **Hospitals** 1990 Apr 20;64(8):97
Fraud and abuse rules: enforcement questions persist. Hudson T. **Hospitals** 1990 Mar 5;64(5):36–7
Fraud and abuse: proposed laws and legislation [editorial] Werner DL. **J Am Optom Assoc** 1989 Nov;60(11):808–9
The impact of marijuana decriminalization: an update. Single EW. **J Public Health Policy** 1989 Winter;10(4):456–66
The fraud squad [news] Greenberg D. **Lancet** 1990 Jan 20; 335(8682):155–6
Israeli drug cases: field research. Carmi A. **Med Law** 1989; 8(5):433–7
The chain of custody. **Med Leg Bull** 1990 Mar–Apr;39(2):1–8
Drug use, crime and the attitudes of magistrates. Johns A, et al. **Med Sci Law** 1990 Jul;30(3):263–70
Program will help mentally retarded offenders [news] **Ohio Med** 1990 Jan;86(1):15
The campaign against health fraud. Richmond C. **Practitioner** 1989 Oct 8;233(1476):1329–30
The profile of a major affective disorder offender. Kunjukrishnan R, et al. **Psychiatr J Univ Ott** 1990 Mar; 15(1):11–4
'Safe harbors' protect physicians from the Medicare storm. **Tex Med** 1990 Jul;86(7):51
Fraud, abuse, and inurement. MacKelvie CF. **Top Health Care Financ** 1990 Spring;16(3):49–57
Fake abortion clinics: the threat to reproductive self–determination. Mertus JA. **Women Health** 1990; 16(1):95–113

PREVENTION & CONTROL

Voluntary imprisonment: its usefulness in the rehabilitation of criminal offenders. Barr NI. **Am J Psychiatry** 1967 Aug; 124(2):170–8; discussion 178–9
Effects of burglary on elderly people [letter; comment] Chew CA, et al. **BMJ** 1989 Aug 19;299(6697):516 Comment on: **BMJ** 1989 Jun 17;298(6688):1618–9.
Community care and the difficult and offender patient. Scannell TD. **Br J Psychiatry** 1989 May;154:615–9 (59 ref.)
Federal official says: "be a bad doctor". Hartman M. **Del Med J** 1990 Jun;62(6):1067–8
The Hawaii State Department of Corrections substance abuse strategy. Ichiho H, et al. **Hawaii Med J** 1990 Jun;49(6):196, 201–4, 208
Infant kidnapping: it can happen in any hospital. Spadt SK, et al. **MCN** 1990 Jan–Feb;15(1):52, 54
Practical issues and examples of data protection. Bakker AR. **Med Inf (Lond)** 1989 Jul–Sep;14(3):215–8
Texas task force to target fraudulent AIDS treatments [news] **Tex Med** 1990 May;86(5):16
[Causes and prevention of violence. Report on the work of the "Violence Commission" of the federal government] Remschmidt H, et al. **Z Kinder Jugendpsychiatr** 1990 Jun; 18(2):99–106 **(Ger)**

STATISTICS & NUMERICAL DATA

Violent crime arrest rates of White House Case subjects and matched control subjects. Shore D, et al. **Am J Psychiatry** 1990 Jun;147(6):746–50
Criminality of heroin users presenting to an Australian hospital–based drug and alcohol unit. Desland M, et al. **Br J Addict** 1990 Jun;85(6):795–801
The consistency of types of criminal behavior over preaddiction, addiction, and nonaddiction status periods. Nurco DN, et al. **Compr Psychiatry** 1989 Sep–Oct; 30(5):391–402
Errors in arrest rates [letter] Harry B. **Hosp Community Psychiatry** 1989 Dec;40(12):1303
Fear of crime [letter; comment] [see comments] Freeman H. **Lancet** 1990 Feb 3;335(8684):296 Comment on: Lancet 1990 Jan 13;335(8681):116. Comment in: Lancet 1990 Mar 31;335(8692):796.
Fear of crime [letter; comment] Shepherd J. **Lancet** 1990 Mar 31;335(8692):796 Comment on: Lancet 1990 Feb 3;335(8684):296.
Fear of crime [letter] [see comments] Watts GT. **Lancet** 1990 Jan 13;335(8681):116 Comment in: Lancet 1990 Feb 3;335(8684):296.
[Expert evaluation by forensic psychiatrists of aged delinquents] Lemańczyk W, et al. **Psychiatr Pol** 1989 Jul–Aug;23(4):307–13 (Eng. Abstr.) **(Pol)**
[The prevalence of chronic drinkers in Mexico: an ecologic analysis] Borges G. **Salud Publica Mex** 1989 Jul–Aug; 31(4):503–18 (Eng. Abstr.) **(Spa)**

TRENDS

The relationship between crime and opioid use. Hammersley R, et al. **Br J Addict** 1989 Sep;84(9):1029–43
National study of drug abuse treatment finds benefits include less drug use, fewer crimes [news] **Hosp Community Psychiatry** 1989 Dec;40(12):1309–10

CRIMINAL LAW see under **JURISPRUDENCE**

CRIMINAL PSYCHOLOGY

Autonomic orienting responses in 15–year–old male subjects and criminal behavior at age 24. Raine A, et al. **Am J Psychiatry** 1990 Jul;147(7):933–7
"False confessions" and identification with the aggressor: another forensic misuse of a psychiatric concept. Perr IN. **Bull Am Acad Psychiatry Law** 1990;18(2):143–51
The effect of co–occurring disorders on criminal careers: interaction of antisocial personality, alcoholism, and drug disorders. Abram KM. **Int J Law Psychiatry** 1989; 12(2–3):133–48
Extraversion, neuroticism, immoral judgment and criminal behaviour. Addad M, et al. **Med Law** 1989;8(6):611–22 (27 ref.)
Is the victim blameless? Fattah EA. **Med Sci Law** 1990 Jan; 30(1):34–8
High and low offenders compared. Griffiths AW. **Med Sci Law** 1990 Jul;30(3):214–6
Mental abnormality and criminality—an uncertain relationship. Prins H. **Med Sci Law** 1990 Jul;30(3):247–58 (100 ref.)
Correlates of crime among women offenders. Robertson G. **Med Sci Law** 1990 Apr;30(2):165–74
Program will help mentally retarded offenders [news] **Ohio Med** 1990 Jan;86(1):15

CRIMINOLOGY

Databases for forensic science. King LA. **Biochem Soc Trans** 1989 Oct;17(5):841–3
[Use of entomologic findings in forensic medicine and criminology] Franc V, et al. **Soud Lek** 1989 Aug; 34(3):37–45 (Eng. Abstr.) **(Slo)**

METHODS

[The use of the principles of the theory of criminal identification in researching the objects of forensic medical expertise] Bedrin LM, et al. **Sud Med Ekspert** 1990 Jan–Mar;33(1):3–6 (Eng. Abstr.) **(Rus)**

CRIPPLED see **HANDICAPPED**

CRISIS INTERVENTION

see related
HOTLINES

Crisis intervention in children and adolescents. Easson WM. **Am Fam Physician** 1989 Nov;40(5):166–70
After disaster. A crisis support team at work. Hayes G, et al. **Am J Nurs** 1990 Feb;90(2):61–4
Determinants of family treatment choice and satisfaction in psychiatric emergencies. Morgan SL. **Am J Orthopsychiatry** 1990 Jan;60(1):96–107
Blitz rape and confidence rape: implications for clinical intervention. Bowie SI, et al. **Am J Psychother** 1990 Apr; 44(2):180–8
Dealing with suicide calls [letter] Meeham PJ, et al. **Ann Emerg Med** 1990 Sep;19(9):1077–8
Families at war. Colquhoun JP. **Aust Fam Physician** 1990 Aug;19(8):1285–6
Crisis intervention. A practitioner's guide. Ingamells D. **Aust Fam Physician** 1989 Nov;18(11):1393–9
The effect of enrollment in a prepaid health plan on utilization of a community crisis intervention center by chronically mentally ill individuals. Dobmeyer TW, et al. **Community Ment Health J** 1990 Apr;26(2):129–37
Continuous observation for psychiatric inpatients: a critical evaluation. Shugar G, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):48–55
A cross–cultural comparison of ideal and undesirable qualities of crisis line workers. Tekavcic–Grad O, et al. **Crisis** 1989 Oct;10(2):152–63
Short–term hospitalization for suicidal patients within a crisis intervention service. Yu–Chin R, et al. **Gen Hosp Psychiatry** 1990 May;12(3):153–8
A continuous–care model of crisis intervention for children and adolescents. Stelzer J, et al. **Hosp Community Psychiatry** 1990 May;41(5):562–4
A "magic" aid for hypnosis and suggestion in crisis management: a brief communication. Hartmann W, et al. **Int J Clin Exp Hypn** 1990 Jul;38(3):157–61
The ageing family in crisis: assessment and decision–making models. Beckingham AC, et al. **J Adv Nurs** 1990 Jul; 15(7):782–7
Domestic violence and pregnancy. Implications for practice. Bohn DK. **J Nurse Midwifery** 1990 Mar–Apr;35(2):86–98 (37 ref.)
When the disaster is over: helping the healers to mend. Stanley SR. **J Psychosoc Nurs Ment Health Serv** 1990 May; 28(5):12–6
Lunar phases and crisis center telephone calls. Wilson JE 2d, et al. **J Soc Psychol** 1990 Feb;130(1):47–51
Nightmares in crisis: clinical applications of lucid dreaming techniques. Brylowski A. **Psychiatr J Univ Ott** 1990 Jun; 15(2):79–84
The essential components of a crisis intervention program for local jails: the New York Local Forensic Suicide Prevention Crisis Service Model. Cox JF, et al. **Psychiatr Q** 1989 Summer;60(2):103–17
A controlled evaluation of inpatient crisis treatment for acute schizophrenic episodes. Olfson M, et al. **Psychiatr Q** 1990 Summer;61(2):143–54
Suicide postvention. **Suicide Life Threat Behav** 1990 Summer; 20(2):187–8; discussion 188–92
Case consultation. Cathy. **Suicide Life Threat Behav** 1990 Spring;20(1):85–92
[Intensive care in psychiatry] Dušek K. **Zdrav Aktual** 1988; 215:1–148 **(Cze)**
[Population course in psychological first aid] Kirk U. **Nord Med** 1990;105(5):154, 159 **(Dan)**
[Theoretical considerations on psychological symptoms in a crisis situation. Psychotherapeutic consequences] Souris M. **Acta Psychiatr Belg** 1988 Jul–Aug;88(4):281–90 (Eng. Abstr.) **(Fre)**
[Crisis psychiatry and open wards] Mercerat C. **Rev Med Suisse Romande** 1990 Jan;110(1):27–9 **(Fre)**
[Long–term clinical follow–up (2 years) of 78 patients hospitalized in a crisis situation] Andreoli A, et al. **Schweiz Arch Neurol Psychiatr** 1989;140(5):439–58 (Eng. Abstr.) **(Fre)**
[Emergency psychiatry and crisis intervention in a primary clinic] Greger J, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Apr; 42(4):206–10 (Eng. Abstr.) **(Ger)**
[Hermeneutic aspect of analytically oriented (short–term) psychotherapies] Holm–Hadulla R. **Psychother Psychosom Med Psychol** 1990 May;40(5):186–91 (Eng. Abstr.) **(Ger)**
[Crisis intervention in the framework of an acute psychiatric general ward] Müller N, et al. **Psychother Psychosom Med Psychol** 1989 Sep–Oct; 39(9–10):374–9 (Eng. Abstr.) **(Ger)**
[Crisis intervention] Sonneck G. **Schweiz Rundsch Med Prax** 1990 Jan 16;79(3):38–42 (Eng. Abstr.) **(Ger)**
[Inpatient alcohol rehabilitation—emergency intervention as a program] Hell D. **Ther Umsch** 1990 May;47(5):414–5 **(Ger)**
[The treatment program for alcoholic patients at the Basel University Psychiatric Clinic] Ladewig D. **Ther Umsch** 1990 May;47(5):415–6 **(Ger)**
[Sequential fluctuation of conformity and fixation of escape behavior in an emergency, with a mathematical model] Kugihara N. **Shinrigaku Kenkyu** 1989 Aug;60(3):156–62

(Eng. Abstr.) (Jpn)
[From war psychiatry to disaster and crisis psychiatry] Weisaeth L. Nord Med 1990;105(6-7):177-8 (Eng. Abstr.) (Nor)
[Guidelines for helping families after the death of a child] Dyregrov A. Tidsskr Nor Laegeforen 1989 Nov 30; 109(33):3408-11 (Eng. Abstr.) (Nor)
[Psychological crises and the urban environment] Curčić M. Med Pregl 1989;42(3-4):153-8 (Eng. Abstr.) (Scr)
[The psychiatric emergency in medicine] Escobar E. Rev Med Chil 1988 Sep;116(9):944-51 (39 ref.) (Eng. Abstr.) (Spa)
[The catastrophic bus accident in Mårbydalen. Better disaster planning is needed] Wode-Helgodt B, et al. Lakartidningen 1989 Nov 15;86(46):3985-6 (Swe)

METHODS

The subacute hospital treatment of the borderline patient: III. Management of suicidal crisis by family intervention. Lansky MR. Hillside J Clin Psychiatry 1989;11(1):81-97
Psychiatric crises: making the most of an emergency room visit. Fisher HL. J Psychosoc Nurs Ment Health Serv 1989 Nov;27(11):4-8
[Psychotherapeutic crisis intervention in ambulatory general practice] Traugottová D, et al. Cas Lek Cesk 1989 Oct 6;128(41):1291-4 (Eng. Abstr.) (Cze)

STANDARDS

A crisis team for the mentally ill: the effect on patients, relatives and admissions. Reynolds I, et al. Med J Aust 1990 Jun 18;152(12):646-52

STATISTICS & NUMERICAL DATA

Whom do mobile crisis services serve? Gillig P, et al. Hosp Community Psychiatry 1990 Jul;41(7):804-5

TRENDS

[Emergency services for crisis intervention—8 years' experience of a social psychiatry service in a rural area] Hantschmann J. Off Gesundheitswes 1989 Aug-Sep; 51(8-9):533-7 (Eng. Abstr.) (Ger)

CRISSCROSS HEART see under HEART DEFECTS, CONGENITAL

CRITHIDIA

ANALYSIS

The histones of the insect trypanosomatid, Crithidia fasciculata. Duschak VG, et al. Biochim Biophys Acta 1990 Sep 3;1040(2):159-66
A simple procedure for detecting proteins that bind preferentially to kDNA networks. Tittawella I. FEMS Microbiol Lett 1989 Aug;51(3):347-52
A comparison of the amino acid sequences of Crithidia fasciculata and Trypanosoma rhodesiense cytochromes c. Sylvester DA, et al. J Parasitol 1990 Jun;76(3):445-7

DRUG EFFECTS

Effects of isoxazolyl-naphthoquinoneimines on growth and oxygen radical production in Trypanosoma cruzi and Crithidia fasciculata. de Tarlovsky MN, et al. Experientia 1990 May 15;46(5):502-5

ENZYMOLOGY

Decreased nuclear matrix DNA topoisomerase II in human leukemia cells resistant to VM-26 and m-AMSA. Fernandes DJ, et al. Biochemistry 1990 May 1; 29(17):4235-41
Biosynthesis of the trypanosomatid metabolite trypanothione: purification and characterization of trypanothione synthetase from Crithidia fasciculata. Henderson GB, et al. Biochemistry 1990 Apr 24;29(16):3924-9
Purification and characterization of uracil phosphoribosyltransferase from Crithidia luciliae. Asai T, et al. Comp Biochem Physiol [B] 1990;95(1):159-63
An inducible 3'-nucleotidase/nuclease from the trypanosomatid Crithidia luciliae. Purification and characterization. Neubert TA, et al. J Biol Chem 1990 May 5;265(13):7236-42

GENETICS

DNase I suceptibility of bent DNA and its alteration by distercalinium and distamycin. Mendoza R, et al. Biochemistry 1990 May 29;29(21):5035-43
RNA editing in transcripts of the mitochondrial genes of the insect trypanosome Crithidia fasciculata. Van der Spek H, et al. EMBO J 1990 Jan;9(1):257-62
The 5S ribosomal RNA genes of Crithidia fasciculata. Köck J, et al. Mol Biochem Parasitol 1990 Jan 15;38(2):295-8
Characterization of kinetoplast minicircle DNA in the lower trypanosomatid Crithidia oncopelti. Pestov DG, et al. Mol Biochem Parasitol 1990 Jun;41(1):135-45
A rapidly rearranging retrotransposon within the miniexon gene locus of Crithidia fasciculata. Gabriel A, et al. Mol Cell Biol 1990 Feb;10(2):615-24
Identification and sequence analysis of the ribosomal DNA promoter region of Crithidia fasciculata. Grondal EJ, et al. Nucleic Acids Res 1990 Mar 25;18(6):1333-8
The nucleotide sequence of the 12S ribosomal RNA gene from kinetoplast DNA of the protozoan Crithidia oncopelti. Horváth A, et al. Nucleic Acids Res 1990 May 11;18(9):2811

METABOLISM

Crithidia luciliae: starvation for purines and/or phosphate leads to the enhanced surface expression of a protein responsible for 3'-nucleotidase/nuclease activity. Alleman MM, et al. Exp Parasitol 1990 Aug;71(2):146-57
Inhibitors of ergosterol biosynthesis and growth of the trypanosomatid protozoan Crithidia fasciculata. Rahman MD, et al. J Biol Chem 1990 Mar 25;265(9):4989-96
[Composition and immunological activity of membrane-bound surface glycoprotein from Crithidia oncopelti] Sukhareva NN, et al. Antibiot Khimioter 1989 Nov;34(11):834-6 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Transmission and ecology of trypanosomatid flagellates of water striders (Hemiptera: Gerridae). Tieszen KL, et al. J Protozool 1989 Sep-Oct;36(5):519-23

ULTRASTRUCTURE

The effect of short-wavelength ultraviolet light on antigens, lectin receptors and the ultrastructure of Crithidia fasciculata. Santos MA, et al. Braz J Med Biol Res 1989; 22(3):345-50

CRITICAL CARE

see related
INTENSIVE CARE UNITS

Clinical evaluation of pulse oximetry monitors on critically ill patients. De Pauw C, et al. Acta Anaesthesiol Belg 1990; 41(1):33-9
Quantitative surface electromyography (qEMG): applications in anaesthesiology and critical care. Paloheimo M. Acta Anaesthesiol Scand Suppl 1990;93:1-83 (132 ref.)
Intraperitoneal chemotherapy in peritoneal malignancy: impact of intensive system care on practicability. Knüsli C, et al. Acta Med Austriaca 1989;16(3-4):70-3
Mechanical ventilation. Gallagher TJ. Acute Care 1987; 13(3):157-80 (60 ref.)
Acute renal failure in the critical care setting. Nortman DF, et al. Acute Care 1987;13(3):127-56 (167 ref.)
Essentials of artificial airway management in critical care. Vender JS, et al. Acute Care 1987;13(1-2):97-124 (104 ref.)
Prospective Doppler echocardiographic evaluation of pulmonary artery diastolic pressure in the medical intensive care unit. Lee RT, et al. Am J Cardiol 1989 Dec 1; 64(19):1366-70
A career path in emergency and critical care medicine: the time is ripe. Crippen D. Am J Emerg Med 1990 Mar; 8(2):162-4
End-tidal carbon dioxide in critically ill patients during changes in mechanical ventilation. Hoffman RA, et al. Am Rev Respir Dis 1989 Nov;140(5):1265-8
Critical care medicine certification and pulmonary disease trainees [editorial] Rogers RM, et al. Am Rev Respir Dis 1990 Sep;142(3):495-6
Continuous renal replacement in the critically ill. Dickson DM, et al. Anaesth Intensive Care 1990 Feb;18(1):76-92 (71 ref.)
Digoxin-like immunoreactive substances in the plasma of intensive care unit patients: relationship to organ dysfunction. Howarth DM, et al. Anaesth Intensive Care 1990 Feb;18(1):45-52
Double-blind study of the reversal of midazolam-induced sedation in the intensive care unit with flumazenil (Ro 15-1788): effect on weaning from ventilation. Pepperman ML. Anaesth Intensive Care 1990 Feb;18(1):38-44
The requirement for intensive care support for the pregnant population [letter; comment] Anaesthesia 1990 Jan; 45(1):65-6 Comment on: Anaesthesia 1989 Jul;44(7):581-4.
The M1 air crash. The demands placed on anaesthetic and intensive care services of two hospitals. Coad NR, et al. Anaesthesia 1989 Oct;44(10):851-4
Admissions to the intensive care unit after complications of anaesthetic techniques over 10 years. 1. The first 5 years. Cooper AL, et al. Anaesthesia 1989 Dec;44(12):953-8
The Dandy-Walker syndrome. Relevance to anaesthesia and intensive care. Ewart MC, et al. Anaesthesia 1990 Aug; 45(8):646-8
Propofol for long-term sedation in the intensive care unit. A comparison with papaveretum and midazolam. Harris CE, et al. Anaesthesia 1990 May;45(5):366-72
Neuroleptic malignant syndrome in the intensive therapy unit. Montgomery JN, et al. Anaesthesia 1990 Apr; 45(4):311-3 (15 ref.)
Mortality during intensive care after orthotopic liver transplantation. Park GR, et al. Anaesthesia 1989 Dec; 44(12):959-63
Infusions of analgesics, sedatives and muscle relaxants in patients who require intensive care [editorial] Park GR, et al. Anaesthesia 1989 Nov;44(11):879-80
The effects of secondary transport on critically ill patients. Ridley S, et al. Anaesthesia 1989 Oct;44(10):822-7
Blood pressure measurement during transport. A comparison of direct and oscillotonometric readings in critically ill patients. Runcie CJ, et al. Anaesthesia 1990 Aug; 45(8):659-65
Iatrogenic anaemia? A survey of venesection in patients in the intensive therapy unit. Tarpey J, et al. Anaesthesia 1990 May;45(5):396-8
Chemical sensors for bedside monitoring of critically ill patients. Collison ME, et al. Anal Chem 1990 Apr 1; 62(7):425A-437A
Hemodynamic effects of rapid vancomycin infusion in critically ill patients. Stier GR, et al. Anesth Analg 1990 Oct;71(4):394-9
The future of critical care medicine within emergency medicine. American College of Emergency Physicians. Ann Emerg Med 1990 Jul;19(7):832-5
Critical care air transportation of the severely injured: does long distance transport adversely affect survival? Valenzuela TD, et al. Ann Emerg Med 1990 Feb; 19(2):169-72
Medical futility: its meaning and ethical implications. Schneiderman LJ, et al. Ann Intern Med 1990 Jun 15; 112(12):949-54 (38 ref.)
Experience with univentricular support in mortally ill cardiac transplant candidates. Kormos RL, et al. Ann Thorac Surg 1990 Feb;49(2):261-71; discussion 271-2
Albumin supplementation in the critically ill. A prospective, randomized trial. Foley EF, et al. Arch Surg 1990 Jun; 125(6):739-42
Microbial infection and the septic response in critical surgical illness. Sepsis, not infection, determines outcome. Marshall J, et al. Arch Surg 1990 Jan;125(1):17-22; discussion 22-3
Persistently increased morphine-6-glucuronide concentrations [letter] Calleja MA, et al. Br J Anaesth 1990 May;64(5):649
Clinical evaluation of pressure support ventilation. Stewart KG. Br J Anaesth 1989 Sep;63(3):362-4
Enoximone in

in trauma management. Grande CM. **Crit Care Clin** 1990 Jan;6(1):25–35 (15 ref.)
Critical care transport: a trauma perspective. Grande CM. **Crit Care Clin** 1990 Jan;6(1):165–83 (22 ref.)
Airway management: considerations in the trauma patient. Grande CM, et al. **Crit Care Clin** 1990 Jan;6(1):37–59 (24 ref.)
Trauma anesthesia and critical care: the concept and rationale for a new subspecialty. Grande CM, et al. **Crit Care Clin** 1990 Jan;6(1):1–11 (21 ref.)
Cerebral aneurysms: mechanisms of injury and critical care interventions. Kirsch JR, et al. **Crit Care Clin** 1989 Oct; 5(4):755–72 (51 ref.)
Renal failure in the trauma patient. Stene JK. **Crit Care Clin** 1990 Jan;6(1):111–9 (26 ref.)
General anesthesia: management considerations in the trauma patient. Stene JK, et al. **Crit Care Clin** 1990 Jan;6(1):73–84 (46 ref.)
Society of Critical Care Medicine, nineteenth annual educational and scientific symposium. San Francisco, California, May 29–June 1, 1990. Abstracts. **Crit Care Med** 1990 Apr;18(4 Suppl):S165–292
Fellowship programs in critical care medicine: 1990/1991. **Crit Care Med** 1990 Sep;18(9):1003–29
Hypermagnesemia and hypocalcemia as predictors of high mortality in critically ill pediatric patients. Broner CW, et al. **Crit Care Med** 1990 Sep;18(9):921–8
Hemoglobin: how much is enough? [editorial] Cane RD. **Crit Care Med** 1990 Sep;18(9):1046–7
Vecuronium infusions for prolonged muscle relaxation in the intensive care unit. Darrah WC, et al. **Crit Care Med** 1989 Dec;17(12):1297–300
Cardiovascular and metabolic response to red blood cell transfusion in critically ill volume-resuscitated nonsurgical patients [see comments] Dietrich KA, et al. **Crit Care Med** 1990 Sep;18(9):940–4 Comment in: Crit Care Med 1990 Sep;18(9):1045.
Hemodynamic and oxygen transport response to modified fluid gelatin in critically ill patients. Edwards JD, et al. **Crit Care Med** 1989 Oct;17(10):996–8
Vecuronium by continuous infusion for neuromuscular blockade in infants and children. Eldadah MK, et al. **Crit Care Med** 1989 Oct;17(10):989–92
Buprenorphine sedation of intensive care patients and ileus reversal. Gawrisch E, et al. **Crit Care Med** 1990 Sep; 18(9):1034–6
Modified head-up tilt test for orthostatic challenge of critically ill patients. Gotshall RW, et al. **Crit Care Med** 1989 Nov;17(11):1156–8
To transfuse or not to transfuse—that is the question! [editorial; comment] Greenburg AG. **Crit Care Med** 1990 Sep;18(9):1045 Comment on: Crit Care Med 1990 Sep;18(9):940–4.
Diminished reactive hyperemia in the skin of critically ill patients. Haisjackl M, et al. **Crit Care Med** 1990 Aug; 18(8):813–8
Bedside pulmonary angiography [letter] Mattox KL. **Crit Care Med** 1976 Nov–Dec;4(6):333–4
Response to dopamine and dobutamine in the preterm infant less than 30 weeks gestation. Miall-Allen VM, et al. **Crit Care Med** 1989 Nov;17(11):1166–9
Aldosterone control in critically ill patients: ACTH, metoclopramide, and atrial natriuretic peptide. Raff H, et al. **Crit Care Med** 1990 Sep;18(9):915–20
Pharmacokinetic variability of midazolam infusions in critically ill patients. Shafer A, et al. **Crit Care Med** 1990 Sep;18(9):1039–41
Brain metabolism in the critically ill. Siesjö BK, et al. **Crit Care Med** 1976 Nov–Dec;4(6):283–94 (89 ref.)
Pitfalls of pulmonary artery catheterization highlighted by Doppler ultrasound. Singer M, et al. **Crit Care Med** 1989 Oct;17(10):1060–1
Mishaps during transport from the intensive care unit. Smith I, et al. **Crit Care Med** 1990 Mar;18(3):278–81
Responsibilities of critical care professionals in setting medical policies for foregoing life-sustaining treatments [editorial] Sprung CL, et al. **Crit Care Med** 1990 Jul; 18(7):787
Percutaneous central venous catheterization in a pediatric intensive care unit: a survival analysis of complications. Stenzel JP, et al. **Crit Care Med** 1989 Oct;17(10):984–8
Surgical critical care. Wisner DH, et al. **Curr Probl Surg** 1990 Aug;27(8):465–569 (211 ref.)
Prolonged labetalol infusion for management of severe hypertension and tachycardia in a critically ill trauma patient. Goldsmith TL, et al. **DICP** 1990 Mar;24(3):235–8
Safety and acid-suppressant properties of histamine2-receptor antagonists for the prevention of stress-related mucosal damage in critical care patients. Schentag JJ, et al. **DICP** 1989 Oct;23(10 Suppl):S36–9
Use of continuous infusion of histamine2-receptor antagonists in critically ill patients. Siepler JK, et al. **DICP** 1989 Oct; 23(10 Suppl):S40–3 (37 ref.)
Factors predictive of seizures among intensive care unit patients with gram-negative infections. Guess HA, et al. **Epilepsia** 1990 Sep–Oct;31(5):567–73
Outcome from intensive care. III. A 5-year study of 1308 patients: activity levels. Dragsted L, et al. **Eur J Anaesthesiol** 1989 Sep;6(5):385–96
Lessons from the elder boom in ICUs. Fulmer TT, et al. **Geriatr Nurs (New York)** 1990 May–Jun;11(3):120–1
Microprocessor-controlled third-generation critical care ventilators. **Health Devices** 1989 Feb;18(2):59–83
Why are so many critical care nurses unable to recognize ventricular tachycardia in the 12-lead electrocardiogram? [letter] **Heart Lung** 1990 Jan;19(1):4–9
Practical aspects of epidural and intrathecal narcotic analgesia in the intensive care setting. Bragg CL. **Heart Lung** 1989 Nov;18(6):599–608 (36 ref.)
Critical care nurses' attitudes toward, concerns about, and knowledge of the acquired immunodeficiency syndrome. Damrosch S, et al. **Heart Lung** 1990 Jul;19(4):395–400
Readers respond with ideas for improving diagnostic abilities [editorial] Dracup K, et al. **Heart Lung** 1990 Jan;19(1):3
Heart sound simulation: how useful for critical care nurses? Harrell JS, et al. **Heart Lung** 1990 Mar;19(2):197–202
What are the needs of families of critically ill patients? A review of the literature since 1976. Hickey M. **Heart Lung** 1990 Jul;19(4):401–15 (19 ref.)
Early recognition of critical stenosis high in the left anterior descending coronary artery. Paul SC, et al. **Heart Lung** 1990 Jan;19(1):27–30
Reach for the sky. White SK. **Heart Lung** 1990 May; 19(3):28A–31A, 34A–39A
Access to care—the issue of the '90s. White SK. **Heart Lung** 1990 Jan;19(1):26A–30A
Prevention of infection in intensive care. A satellite symposium of the 16th International Congress of Chemotherapy. 12 June 1989, Jerusalem. Proceedings. **Infection** 1990;18 Suppl 1:S1–30
The role of systemic antibiotic prophylaxis in infection prevention in intensive care by SDD. Stoutenbeek CP. **Infection** 1989 Nov–Dec;17(6):418–21
Decision analysis: a framework for critical care decision assistance. Seiver A, et al. **Int J Clin Monit Comput** 1989 Jul;6(3):137–56
Abstracts of the 5th European Congress on Intensive Care Medicine. Amsterdam, The Netherlands, June 5–8, 1990. **Intensive Care Med** 1990;16 Suppl 1:A1–131
Abstracts of the British Intensive Care Society, autumn meeting. London, October 21, 1989. **Intensive Care Med** 1990;16(2):A141–52
Clonidine as a sedative adjunct in intensive care. Böhrer H, et al. **Intensive Care Med** 1990;16(4):265–6
Assessment of adequate tissue oxygenation in shock and critical illness: oxygen transport in sepsis, Bermuda, April 1 + 2, 1989. Haglund U, et al. **Intensive Care Med** 1989; 15(7):475–7
Fluid requirements of patients with burns and inhalation injuries in an intensive care unit. Hughes KR, et al. **Intensive Care Med** 1989;15(7):464–6
The effect of H2 receptor antagonists on intragastric pH in critically ill patients [letter; comment] Karlstadt RG, et al. **Intensive Care Med** 1989;15(7):479–80 Comment on: Intensive Care Med 1989;15(2):145.
Plasma catecholamine concentration during sedation in ventilated patients requiring intensive therapy. Kong KL, et al. **Intensive Care Med** 1990;16(3):171–4
The cerebral function analysing monitor in paediatric medical intensive care: applications and limitations. Tasker RC, et al. **Intensive Care Med** 1990;16(1):60–8
European attitudes towards ethical problems in intensive care medicine: results of an ethical questionnaire. Vincent JL. **Intensive Care Med** 1990;16(4):256–64
The parents' perspective: ethical decision-making in neonatal intensive care. Pinch WJ, et al. **J Adv Nurs** 1990 Jun; 15(6):712–9
Should thrombolytic therapy be administered in the mobile intensive care unit in patients with evolving myocardial infarction? A pilot study [see comments] Roth A, et al. **J Am Coll Cardiol** 1990 Apr;15(5):932–6 Comment in: J Am Coll Cardiol 1990 Apr;15(5):937–9.
Augmenting the critical care data base of junior medical students with an emergency medicine lecture curriculum: a controlled study. Binder L, et al. **J Emerg Med** 1990 Mar–Apr;8(2):211–4
Discussions regarding aggressive care with critically ill patients. Blackhall LJ, et al. **J Gen Intern Med** 1989 Sep–Oct;4(5):399–402
Late-second-trimester pregnancy termination with dilation and evacuation in critically ill women. Bowers CH, et al. **J Reprod Med** 1989 Nov;34(11):880–3
Is the treatment of the most severe multiply injured patients worth the effort? A follow-up examination 3 to 20 years after severe multiple injury. Kivioja AH, et al. **J Trauma** 1990 Apr;30(4):480–3
Laboratory critical limits [letter; comment] **JAMA** 1990 Jul 18;264(3):334–5 Comment on: JAMA 1990 Feb 2;263(5):704–7.
Stress ulcer prophylaxis in critically ill patients. **Lancet** 1989 Nov 25;2(8674):1255–6 (26 ref.)
Propofol and intensive care [letter] **Lancet** 1989 Oct 21; 2(8669):975
Magnesium therapy of cardiac arrhythmias in critical-care medicine. Iseri LT, et al. **Magnesium** 1989;8(5–6):299–306 (14 ref.)
Magnesium homeostasis in critically ill patients. Ryzen E. **Magnesium** 1989;8(3–4):201–12 (57 ref.)
Calcium homeostasis in the critically ill patient. Zaloga GP. **Magnesium** 1989;8(3–4):190–200 (23 ref.)
A computerized simulator for critical-care training: new technology for medical education. Saliterman SS. **Mayo Clin Proc** 1990 Jul;65(7):968–78
Lenticular opacities [letter] Diamond GA. **Med Decis Making** 1990 Apr–Jun;10(2):147
Lens model analysis of hemodynamic status in the critically ill. Speroff T, et al. **Med Decis Making** 1989 Oct–Dec; 9(4):243–52
Withdrawing and withholding treatment in intensive care. Part 1. Social and ethical dimensions [see comments] Fisher MM, et al. **Med J Aust** 1990 Aug 20;153(4):217–20 (20 ref.) Comment in: Med J Aust 1990 Aug 20;153(4):178–80.
Withdrawing and withholding treatment in intensive care. Part 2. Patient assessment [see comments] Fisher MM, et al. **Med J Aust** 1990 Aug 20;153(4):220–2 Comment in: Med J Aust 1990 Aug;153(4):178–80.
Withdrawing and withholding treatment in intensive care. Part 3. Practical aspects [see comments] Fisher MM, et al. **Med J Aust** 1990 Aug 20;153(4):222–5 Comment in: Med J Aust 1990 Aug 20;153(4):178–80.
Letting die in adult intensive care units [editorial; comment] Vedig AE. **Med J Aust** 1990 Aug 20;153(4):178–80 Comment on: Med J Aust 1990 Aug 20;153(4):217–20. Comment on: Med J Aust 1990 Aug 20;153(4):220–2. Comment on: Med J Aust 1990 Aug 20;153(4):222–5.
The Third Pan Arab Congress of Anesthesia and Intensive Care. Tunis, 4–7 October, 1989. **Middle East J Anesthesiol** 1990 Feb;10(4):337–459
Use of scoring systems to evaluate prognosis and outcome of critical patients. Abdel Razek A. **Middle East J Anesthesiol** 1990 Feb;10(4):423–38 (23 ref.)
Resource allocation decisions in critical care nursing. Reigle J. **Nurs Clin North Am** 1989 Dec;24(4):1009–15 (27 ref.)
Critical care interhospital transports: predictability of the need for a pediatrician. McCloskey KA, et al. **Pediatr Emerg Care** 1990 Jun;6(2):89–92
Septic shock: principles of management in the emergency department [letter; comment] Pope JH. **Pediatr Emerg Care** 1990 Mar;6(1):78 Comment on: Pediatr Emerg Care 1989 Sep;5(3):193–7.
Children with abdominal pain: evaluation in the pediatric emergency department. Reynolds SL, et al. **Pediatr Emerg Care** 1990 Mar;6(1):8–12
Intensive care management of acute asthma in children [letter; comment] Krohn J. **Pediatrics** 1990 Apr;85(4):625–6 Comment on: Pediatrics 1989 Jun;83(6):1023–8.
Quality of life and survival following intensive medical care. Yinnon A, et al. **Q J Med** 1989 Apr;71(264):347–57
Use of cholescintigraphy with morphine in critically ill patients with suspected cholecystitis. Flancbaum L, et al. **Surgery** 1989 Oct;106(4):668–73; discussion 673–4
The role of intensive-care medicine in thoracic and cardiovascular surgery. Statement of the German Society for Thoracic and Cardiovascular Surgery. **Thorac Cardiovasc Surg** 1989 Aug;37(4):267–70 **(Eng, Ger)**
Critical care. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1007–306
Critical care cardiology. Fox PR. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1095–125 (102 ref.)
Monitoring the critically ill patient. Haskins SC. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1059–78 (22 ref.)
Respiratory conditions in critical patients. Hendricks JC. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1167–88 (27 ref.)
Acute renal failure as a complication in the critically ill animal. Kirby R. **Vet Clin North Am Small Anim Pract** 1989 Nov;19(6):1189–208 (42 ref.)
Critical care—the overview. Kirby R. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1007–19 (9 ref.)
Critical care surgical techniques. Paddleford RR, et al. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1079–94 (6 ref.)
Fourth French Consensus Conference on intensive care and emergency medicine. Selection of a fluid for vascular expansion in the treatment of hypovolemia in adult patients. **Vox Sang** 1990;58(2):150–1 (0 ref.)
[The European diploma of anesthesiology and intensive care] Zorab JS. **Ma Tsui Hsueh Tsa Chi** 1989 Jun;27(2):177–83 **(Chi)**
[Prognosis in patients in intensive care from the aspect of renal function] Jabor A, et al. **Cas Lek Cesk** 1989 Dec 15;128(51):1607–10 (Eng. Abstr.) **(Cze)**
[Mechanical irrigation and selective decontamination in critically ill patients] Zejkan A, et al. **Cas Lek Cesk** 1989 Sep 22;128(39):1235–8 (Eng. Abstr.) **(Cze)**
[Let us create better conditions for the practice of acute medicine] Hájek M. **Cesk Zdrav** 1990 Apr;38(4):180–1 **(Cze)**
[Intensive care in psychiatry] Dušek K. **Zdrav Aktual** 1988; 215:1–148 **(Cze)**
[Principles of the use of indirect calorimetry in intensive care] Chiolero RL, et al. **Agressologie** 1990 Jan;31(1):68–9 (Eng. Abstr.) **(Fre)**
[Psychiatric problems and sleep disorders in surgical intensive care. A polygraphic study: 8 cases] Perla E. **Agressologie** 1989 Nov–Dec;30(11–12):603–16 (Eng. Abstr.) **(Fre)**
[Treatment of esophagotracheal fistula following intensive care. An experience of 17 cases] Couraud L, et al. **Ann Chir** 1989;43(8):677–81 (Eng. Abstr.) **(Fre)**
[Consensus development conferences in intensive care medicine. V conference: diagnosis of nosocomial

pneumonia in resuscitation. (Bicêtre University Hospital Center, Paris, October 13, 1989)] Kahn RJ, et al. **Ann Fr Anesth Reanim** 1990;9(3):318–20 (0 ref.) (Fre)
[Factors influencing mixed venous oxygen saturation in intensive care] Rouby JJ, et al. **Ann Fr Anesth Reanim** 1989; 8(6):703–7 (47 ref.) (Eng. Abstr.) (Fre)
[Role of invasive technics in the unexpected occurrence of nosocomial infections at intensive care units (letter)] Lecoutour X, et al. **Presse Med** 1990 Feb 24;19(7):338 (Fre)
[The DO2/VO2 relationship: and approach to cellular metabolism in "crisis" situations] Jolliet P, et al. **Schweiz Med Wochenschr** 1990 Aug 18;120(33):1192–9 (70 ref.) (Eng. Abstr.) (Fre)
[Hemostatic disorders in anesthesiology and surgical intensive care] Blauhut B, et al. **Anaesthesiol Reanim** 1990; 15(2):67–80 (24 ref.) (Eng. Abstr.) (Ger)
[Organization of courses in further education and continuing education as a means of ensuring quality standards] Meyer M. **Anaesthesiol Reanim** 1990;15(2):121–5 (Eng. Abstr.) (Ger)
[Central European Anesthesia Congress. ZAK 89 Innsbruck. 12–16 September 1989. 21st joint meeting of the German Society for Anesthesiology and Intensive Care Medicine, the Swiss Society for Anesthesiology and Resuscitation and the Austrian Society for Anesthesiology, Resuscitation and Intensive Therapy. Abstracts] **Anaesthesist** 1989;38 Suppl:1–712 (Ger)
[Abstracts of the 3d scientific working group meeting of the German Society for Anesthesia and Intensive Care Medicine. 24–25 February 1989, Würzburg] **Anaesthesist** 1989 Dec;38(12):686–99 (Ger)
[German Anesthesia Congress 1990. Annual meeting of the German Society for Anesthesiology and Intensive Care Medicine. Mannheim, 21–25 March 1990. Abstracts] **Anaesthesist** 1990;39 Suppl 1:S1–150 (Ger)
[German Anesthesia Congress 1989. Annual meeting of the German Society for Anesthesiology and Intensive Care Medicine. Bremen, 26–30 April 1989. Abstracts] **Anaesthesist** 1989;38 Suppl 1:1–147 (Ger)
[Particulate contamination of infusion solutions and drug additives in the framework of long-term intensive therapy. 2. An animal model] Walpot H, et al. **Anaesthesist** 1989 Nov;38(11):617–21 (Eng. Abstr.) (Ger)
[Anesthesia and intensive therapy of pregnant women with the HELLP syndrome] Wulf H. **Anaesthesist** 1990 Feb; 39(2):117–21 (Eng. Abstr.) (Ger)
[Acute respiratory distress syndrome of the adult (ARDS) and artificial respiration—results in surgical intensive care patients] Deller A, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):277–82 (Eng. Abstr.) (Ger)
[Continuous intragastric pH measurement in intensive care patients treated with ranitidine and tube feeding] Krier C, et al. **Anasth Intensivther Notfallmed** 1990 Jan;25 Suppl 1:10–3 (Eng. Abstr.) (Ger)
[Metabolic problems and therapeutic approaches in multiple organ failure] Puchstein C, et al. **Anasth Intensivther Notfallmed** 1989 Aug;24(4):199–205 (71 ref.) (Eng. Abstr.) (Ger)
[The significance of digoxin-like immunoreactive factor (DLIF) for intensive care medicine] Simon HB, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):235–6 (Eng. Abstr.) (Ger)
[Mixed venous versus central venous oxygen saturation in intensive medicine] Wendt M, et al. **Anasth Intensivther Notfallmed** 1990 Feb;25(1):102–6 (Eng. Abstr.) (Ger)
[Diurnal rhythm of O2 uptake and the effect of intensive therapy interventions in patients with craniocerebral injuries with and without barbiturate therapy] Weyland W, et al. **Beitr Infusionther** 1990;25:241–58 (Ger)
[Use and evaluation of reflectometry determination procedures in pediatric-internal medicine acute and emergency diagnosis] Krawinkel M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:227–8 (Ger)
[Respiratory monitoring of intensive care patients] Krier C, et al. **Biomed Tech (Berlin)** 1990;35 Suppl 1:74–5 (Ger)
[Monitoring and automated data processing in anesthesiology and surgical intensive care medicine] Wawersik J. **Biomed Tech (Berlin)** 1989;34 Suppl:12 (Ger)
[The role of sonography at the intensive care unit] Pichler W, et al. **Rontgenpraxis** 1989 Dec;42(12):407–11 (Ger)
[Monitoring during secondary transportation] Bernoulli L, et al. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):169–73 (Eng. Abstr.) (Ger)
[Secondary transport of intensive care patients in Switzerland. Results of a survey] Frutiger A. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):159–63 (Eng. Abstr.) (Ger)
[Swiss Society for Cardiology. Swiss Society for Intensive Care Medicine. Joint annual meeting. Lausanne, 10–12 May 1990. Abstracts] **Schweiz Med Wochenschr Suppl** 1990;32 Pt 2:1–36 (Ger, Fre)
[Poly-, multiple trauma and intra-abdominal injuries] Roscheck H, et al. **Unfallchirurg** 1990 Jul;93(7):327–30 (Eng. Abstr.) (Ger)
[Ventilation strategies in intensive care medicine] Suter PM. **Verh Dtsch Ges Inn Med** 1989;95:232–5 (11 ref.) (Ger)
[Differential indications: parenteral-enteral nutrition in intensive care patients] Smolle KH, et al. **Wien Med Wochenschr** 1990 May 15;140(9):249–51 (Eng. Abstr.) (Ger)
[Catabolism and artificial nutrition of the internal medicine intensive care patient] Weilemann LS. **Z Ernahrungswiss** 1989 Sep;28(3):201–10 (28 ref.) (Eng. Abstr.) (Ger)
[Enteral nutrition in patients in intensive care and the early postoperative phase] Wiedeck H. **Z Gastroenterol** 1989 Jun; 27 Suppl 2:49–52 (Ger)
[The treatment of acute heart failure] Teichmann W. **Z Gesamte Inn Med** 1990 Jun 15;45(12):340–2 (25 ref.) (Eng. Abstr.) (Ger)
[Cervical vertebral and spinal cord injury in intensive therapy] Massei R, et al. **Minerva Anestesiol** 1989 Mar; 55(3):129–33 (Eng. Abstr.) (Ita)
[Intensive cares of severe acute pancreatitis] Yamamoto M, et al. **Nippon Rinsho** 1990 Jan;48(1):181–8 (Jpn)
[Intensive care of patients with burns] Aanderud L, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3197–9 (Eng. Abstr.) (Nor)
[Evaluation of the function of the myocardium by carrying out anti- and orthostatic tests in patients in resuscitation units] Ivanov GG, et al. **Anesteziol Reanimatol** 1989 Sep–Oct;(5):69–71 (Eng. Abstr.) (Rus)
[Changes in the homeostatic indices in children with the prolonged crush syndrome receiving complex intensive therapy] Mikhel'son VA, et al. **Anesteziol Reanimatol** 1990 May–Jun;(3):70–3 (Eng. Abstr.) (Rus)
[A method of evaluating the severity of children's condition at a department of intensive therapy and resuscitation] Misharev OS, et al. **Anesteziol Reanimatol** 1990 Mar–Apr; (2):42–4 (Eng. Abstr.) (Rus)
[Interhospital transportation of children in critical condition in the Leningrad region] Vanevskiĭ VL, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):60–2 (Eng. Abstr.) (Rus)
[Experience with the use of hemosorption in the intensive therapy of Stevens-Johnson syndrome in a child] Vozgoment OV, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):46–7 (Rus)
[Intensive therapy of diabetic (ketoacidotic) coma] Zhdanov GG, et al. **Anesteziol Reanimatol** 1990 May–Jun;(3):59–63 (Eng. Abstr.) (Rus)
[Pharmacokinetics of azlocillin in critical conditions: an individualized schedule of drug administration in relation to anatomo-physiologic and pathologic factors] Firsov AA, et al. **Antibiot Khimioter** 1989 Aug;34(8):620–4 (Eng. Abstr.) (Rus)
[Intensive therapy and massive lesions] Vorob'ev AI. **Ter Arkh** 1989;61(7):3–8 (Rus)
[11th national meeting of the Section on Pediatric Intensive Care and the 9th national meeting on pediatric and neonatal intensive care units. Granada, 4–5 November 1988. Abstracts] **An Esp Pediatr** 1989 Aug;31(2):167–83 (Spa)
[The problem-oriented medical record. Bases for its use with critically ill patients] Vukusic A, et al. **Rev Med Chil** 1988 Oct;116(10):1070–4 (Eng. Abstr.) (Spa)

ECONOMICS

The cost of continuous infusions of vecuronium in critically ill patients [letter; comment] Current JD. **Anesth Analg** 1990 Mar;70(3):340–1 Comment on: Anesth Analg 1989 Oct;69(4):518–21.
How can new technology be introduced, evaluated, and financed in critical care? Sibbald WJ, et al. **Clin Chem** 1990 Aug;36(8 Pt 2):1604–11 (40 ref.)

HISTORY

Moments in nursing history. 1970. Four hundred postcards. Lynaugh J. **Nurs Res** 1990 Jul–Aug;39(4):254–5
[25 years of "Anästhesie, Intensivtherapie, Notfallmedizin" (editorial)] Just OH. **Anasth Intensivther Notfallmed** 1990 Jan;25 Suppl 1:1–2 (Ger)

LEGISLATION & JURISPRUDENCE

The present and future medicolegal importance of record keeping in anesthesia and intensive care: the case for automation. Gibbs RF. **J Clin Monit** 1989 Oct;5(4):251–5
[When pediatric intensive care medicine becomes intensive] Riegel K. **Padiatr Padol** 1989;24(3):181–7 (Ger)

MANPOWER

The involvement of anesthetists in critical care medicine. Devitt JH, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S119

METHODS

Safety and utility of transesophageal echocardiography in the critically ill patient. Pearson AC, et al. **Am Heart J** 1990 May;119(5):1083–9
Organ and tissue procurement in the acute care setting: principles and practice—Part 2. Rivers EP, et al. **Ann Emerg Med** 1990 Feb;19(2):193–200
Management of acute upper airway obstruction in an intensive care unit in a district general hospital. Lear GH, et al. **Arch Dis Child** 1990 Feb;65(2):241–5
Isoflurane compared with midazolam in the intensive care unit [letter] Willatts SM, et al. **BMJ** 1989 Aug 5; 299(6695):389
Continuous arteriovenous haemodialysis in the intensive therapy unit [editorial] Jones GW. **Br J Anaesth** 1990 Jun; 64(6):655–6
Respiratory monitoring of the infant in anaesthesia and intensive care. Miyasaka K. **Can J Anaesth** 1990 May;37(4 Pt 2):Scxxiv–Scxxxiii (23 ref.) (Eng, Fre)
Other aspects of metabolic monitoring in critically ill patients. Konstantinides FN, et al. **Clin Chem** 1990 Aug;36(8 Pt 2):1594–603 (133 ref.)
Metabolic integrity of specific organ systems. Marsh HM. **Clin Chem** 1990 Aug;36(8 Pt 2):1547–51
What should be monitored? The past, present, and future of physiological monitoring. Shoemaker WC. **Clin Chem** 1990 Aug;36(8 Pt 2):1536–43
Through a glass darkly: the lung as a window to monitor oxygen consumption, energy metabolism, and severity of critical illness. Siegel JH. **Clin Chem** 1990 Aug;36(8 Pt 2):1585–93 (29 ref.)
Orchestrating a dignified death in the intensive-care unit. Youngner SJ. **Clin Chem** 1990 Aug;36(8 Pt 2):1617–22
Computerized management of patient care in a complex, controlled clinical trial in the intensive care unit. Sittig DF, et al. **Comput Methods Programs Biomed** 1989 Oct–Nov;30(2–3):77–84
Airway management in the critically ill patient. Heffner JE. **Crit Care Clin** 1990 Jul;6(3):533–50 (101 ref.)
Use of survivors' cardiorespiratory values as therapeutic goals in septic shock. Edwards JD, et al. **Crit Care Med** 1989 Nov;17(11):1098–103
Pediatric critical care social work: interventions with a special plane crash survivor. Sefansky S. **Health Soc Work** 1990 Aug;15(3):215–20
Summary of the 10th Annual International Symposium on Computers in Critical Care, Pulmonary Medicine, and Anesthesia. Sittig DF, et al. **Int J Clin Monit Comput** 1990 Jan;7(1):33–9
Care of the multiple organ donor. Bodenham A, et al. **Intensive Care Med** 1989;15(6):340–8 (56 ref.)
Modeling and control. Forbes AD. **J Clin Monit** 1990 Jul; 6(3):227–35
Intensive care for respiratory failure in Guillain–Barré syndrome. Joyce B, et al. **J Ky Med Assoc** 1990 Jun; 88(6):281–4
Treatment of severe malaria. Warrell DA. **J R Soc Med** 1989; 82 Suppl 17:44–50; discussion 50–1 (54 ref.)
Propofol and intensive care [letter] Aitkenhead AR. **Lancet** 1989 Nov 25;2(8674):1281
In vivo chemical sensors for intensive-care monitoring. Rolfe P. **Med Biol Eng Comput** 1990 May;28(3):B34–47 (104 ref.)
Do objective estimates of chances for survival influence decisions to withhold or withdraw treatment? The French Multicentric Group of ICU Research [see comments] Knaus WA, et al. **Med Decis Making** 1990 Jul–Sep; 10(3):163–71 Comment in: Med Decis Making 1990 Jul–Sep;10(3):153–4.
Temporary organ substitution by hemoperfusion through suspension of active donor hepatocytes in a total complex of intensive therapy in patients with acute hepatic insufficiency. Margulis MS, et al. **Resuscitation** 1989 Oct; 18(1):85–94
[Anesthesia and intensive care of congenital diaphragmatic hernia. 10 years' development. Apropos of 21 cases] Pequegnot C, et al. **Agressologie** 1990 Jan;31(1):56–8 (Eng. Abstr.) (Fre)
[Hemostasis monitoring in intensive therapy—studies using resonance thrombography] Hinsenbrock KP, et al. **Anaesthesiol Reanim** 1989;14(4):219–25 (Eng. Abstr.) (Ger)
[Traumatic spinal cord lesion. An interdisciplinary challenge—a synopsis of the early trauma phase] Werba A, et al. **Anaesthesist** 1989 Oct;38(10):503–9 (41 ref.) (Eng. Abstr.) (Ger)
[Adequate respiratory therapy in polytrauma in the prehospital phase by pulse oximetry monitoring] Gust R, et al. **Anasth Intensivther Notfallmed** 1989 Aug;24(4):221–5 (Eng. Abstr.) (Ger)
[Principles of acute management of the severe diving accident] Lampl L, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):303–8 (Eng. Abstr.) (Ger)
[Anesthesiologic and intensive care aspects of severe pre-eclampsia with HELLP syndrome] Rathgeber J, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):206–11 (Eng. Abstr.) (Ger)
[Respiratory insufficiency and its treatment in threatened multiple organ failure] Suter PM. **Anasth Intensivther Notfallmed** 1989 Aug;24(4):212–5 (22 ref.) (Eng. Abstr.) (Ger)
[Differential diagnosis and follow-up of pulmonary disorders by bedside thoracic imaging of intensive care patients] Wallner B, et al. **Anasth Intensivther Notfallmed** 1990 Jun; 25(3):228–34 (Eng. Abstr.) (Ger)
[Anesthesia and intensive care in thoracic surgery] Wiedemann K. **Anasth Intensivther Notfallmed** 1989 Dec; 24(6):319–20 (Ger)
[Particle load in intensive therapy. Possible solutions using a multi-lumen catheter and Intrapur filter] Schröder F. **Infusionstherapie** 1990 Jun;17(3):149–54 (Eng. Abstr.) (Ger)
[Intensive care problems in AIDS patients] Lode H, et al. **Pneumologie** 1990 Feb;44 Suppl 1:407–8 (Eng. Abstr.) (Ger)
[The extent and quality of intensive therapy measures in psychiatry] Schmal D, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Aug; 41(8):499–504 (Eng. Abstr.) (Ger)
[The role of bedside thoracic imaging in monitoring surgical

intensive care patients] Wallner B. **Rontgenblatter** 1990 Jul; 43(7):283–7 (Eng. Abstr.) (Ger)

[Intensive therapy of myocardial infarct—limiting the size of the infarct] Erbel R, et al. **Verh Dtsch Ges Inn Med** 1989;95:200–13 (65 ref.) (Ger)

[Requirements of intensive care medicine for laboratory diagnosis] Fiedler H, et al. **Z Med Lab Diagn** 1990; 31(4):192–9 (Eng. Abstr.) (Ger)

[Acute ethylene glycol poisoning—205 cases treated at the Acute Poison Control Center] Puka J, et al. **Pol Arch Med Wewn** 1988 Aug–Sep;80(2–3):88–98 (Eng. Abstr.) (Pol)

[Results of treatment of severe craniocerebral injuries in an interdisciplinary intensive therapy unit] Maciejewski D, et al. **Wiad Lek** 1989 Jun 15;42(12):805–10 (Eng. Abstr.) (Pol)

[Operative control of the status of a patient based on variations in heart rate using information criteria] Khmelevskii IaM, et al. **Anesteziol Reanimatol** 1989 Jul–Aug;(4):53–7 (Eng. Abstr.) (Rus)

[Ultraviolet irradiation of the blood in the intensive treatment of acute exogenous poisoning] Luzhnikov EA, et al. **Anesteziol Reanimatol** 1989 Jul–Aug;(4):31–5 (Eng. Abstr.) (Rus)

[Ion-exchange hemosorption in the intensive therapy of liver insufficiency in patients with obstructive jaundice] Minina KZ, et al. **Anesteziol Reanimatol** 1989 Jul–Aug;(4):40–2 (Eng. Abstr.) (Rus)

[The efferent therapy of the critical state due to status asthmaticus] Novikova RI, et al. **Anesteziol Reanimatol** 1990 Jan–Feb;(1):31–6 (Eng. Abstr.) (Rus)

[Intensive therapy of patients surgically treated in acute gastrointestinal hemorrhage of peptic ulcer etiology] Kharaberiush VA, et al. **Klin Khir** 1990;(4):37–9 (Eng. Abstr.) (Rus)

[Pathophysiologic characteristics of the reactive toxic stage of acute suppurative peritonitis and ways to enhance the effectiveness of intensive therapy] Shifrin GA, et al. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):40–4 (Eng. Abstr.) (Rus)

[The use of bronchological methods as the means for the intensive treatment of patients with severe manifestations of lung and pleural diseases] Kazakov AF, et al. **Probl Tuberk** 1989;(12):25–8 (Eng. Abstr.) (Rus)

[Intensive treatment of status asthmaticus] Kats GL, et al. **Sov Med** 1989;(11):65–8 (Rus)

[Hemosorption in the intensive therapy of agranulocytosis] Podgurskaia RA, et al. **Ter Arkh** 1989;61(11):92–4 (Eng. Abstr.) (Rus)

[Detoxication in the critical state due to rhabdomyolysis] Novikova RI, et al. **Vestn Khir** 1989 Oct;143(10):107–11 (Eng. Abstr.) (Rus)

[The extracorporeal hook-up of a xenogeneic spleen in the intensive treatment of suppurative surgical diseases complicated by sepsis] Chizh IM, et al. **Voen Med Zh** 1989 Jul;(7):30–2 (Rus)

[Hyperbaric oxygenation in combined intensive therapy] Gostev IuP, et al. **Voen Med Zh** 1990 Feb;(2):34–6 (Rus)

[The efficacy of using the Ovolakt balanced nutritional mixture in the intensive therapy of surgical patients] Rogov IA, et al. **Voen Med Zh** 1989 Oct;(10):23–7 (Rus)

[The choice of anesthesia and characteristics of intensive therapy in urgent and emergency surgery of earthquake victims] Rudenko MI, et al. **Voen Med Zh** 1989 Aug; (8):24–7 (Rus)

ORGANIZATION & ADMINISTRATION

Organization of critical care services. Carlson RW, et al. **Acute Care** 1987;13(1–2):2–43 (117 ref.)

National survey of critical-care pharmaceutical services. Dasta JF, et al. **Am J Hosp Pharm** 1989 Nov;46(11):2309–12

Who should be responsible for care of the critically ill surgical patient? Holcroft JW. **Arch Surg** 1990 Sep; 125(9):1103–4

Current practice in transferring critically ill patients among hospitals in the west of Scotland. Reeve WG, et al. **BMJ** 1990 Jan 13;300(6717):85–7

Critical care medicine: technology and patient management. Introduction. Eckfeldt JH. **Clin Chem** 1990 Aug;36(8 Pt 2):1533–5

New in vitro analytical approaches for clinical chemistry measurements in critical care. Meyerhoff ME. **Clin Chem** 1990 Aug;36(8 Pt 2):1567–72

Training in critical care medicine: a personal perspective. Rieves RD. **South Med J** 1990 Sep;83(9):1081–4

[Care of the injured in Norway] Kristoffersen A. **Tidsskr Nor Laegeforen** 1990 May 20;110(13):1731–2 (Eng. Abstr.) (Nor)

[Selection of/methods of anesthesia and intensive treatment of patients with long-term crush syndrome (work experience in the Armenian SSR from December 8 to December 26, 1988)] Rudenko MI, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):46–9 (Rus)

[Intensive therapy of patients with long-term crush syndrome (data of the earthquake in Armenian SSR in December 1988)] Ivashkin VT, et al. **Klin Med (Mosk)** 1990 May; 68(5):40–4 (Rus)

[Experience with therapeutic and organizational activities of the department of pediatric intensive care and resuscitation] Dardzhaniia RA, et al. **Pediatriia** 1990;(3):85–6 (Rus)

[Experience with intensive therapy and observation of patients at a central regional hospital] Sigal ES. **Sov Med** 1990;(1):38–40 (Rus)

[Organization of medical services for the victims of the earthquake in the city of Spitak, Armenian S.S.R.] Satsukevich VN, et al. **Vestn Khir** 1990 Mar;144(3):66–70 (Eng. Abstr.) (Rus)

PSYCHOLOGY

French validation of the critical care family needs inventory. Coutu-Wakulczyk G, et al. **Heart Lung** 1990 Mar; 19(2):192–6

Peace in our time. Fowler MD. **Heart Lung** 1990 May; 19(3):315–6

Effects of support groups on anxiety of family members during critical illness. Halm MA. **Heart Lung** 1990 Jan; 19(1):62–71

Comparison of perceived needs of family members between registered nurses and family members of critically ill patients in intensive care and neonatal intensive care units. Jacono J, et al. **Heart Lung** 1990 Jan;19(1):72–8

A comparison of nurses' and patients' perceptions of intensive care unit stressors. Cochran J, et al. **J Adv Nurs** 1989 Dec; 14(12):1038–43

What difference do two days make? The inertia of physicians' sequential prognostic judgments for critically ill patients. Poses RM, et al. **Med Decis Making** 1990 Jan–Mar; 10(1):6–14

[Psychophysiologic reaction patterns in coping with events by intensive care patients] Wensing R, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):298–302 (Eng. Abstr.) (Ger)

[Psychologico-medical studies in intensive care] Klapp BF. **Fortschr Med** 1989 Sep 30;107(28):589–91 (Eng. Abstr.) (Ger)

[Passive euthanasia in intensive care medicine?] Schuster HP. **Med Klin** 1989 Dec 15;84(12):600–2 (3 ref.) (Ger)

[Psychological stress conditions at an internal medicine intensive care unit. Analysis of a patient survey] Dorschner S, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):545–7 (Eng. Abstr.) (Ger)

STANDARDS

Controversies, dilemmas, and dialogues. Prophylactic therapy of stress-related mucosal damage: why, which, who, and so what? Peura DA, et al. **Am J Gastroenterol** 1990 Aug;85(8):935–7

Evolution of the healing room. Higgins GA. **Arch Surg** 1990 Sep;125(9):1101–2

APACHE III study design: analytic plan for evaluation of severity and outcome. **Crit Care Med** 1989 Dec;17(12 Pt 2):S169–221

Reassessing critical care: illness, outcome, and cost [editorial] Cullen DJ. **Crit Care Med** 1989 Dec;17(12 Pt 2):S172–3

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Study design—data collection. Draper E, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S186–93

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Development of APACHE. Knaus W, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S181–5

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Individual patient decisions. Knaus W, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S204–9

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Introduction. Knaus W, et al. **Crit Care Med** 1989 Dec; 17(12 Pt 2):S176–80

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Implications. Knaus W, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S219–21

Methodologic assessment of outcome [editorial] Shoemaker WC. **Crit Care Med** 1989 Dec;17(12 Pt 2):S169

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Analysis of process. Shortell S, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S213–6

Peer review, publication policy, and APACHE. Teres D. **Crit Care Med** 1989 Dec;17(12 Pt 2):S169–72

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Statistical methods. Wagner D, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S194–8

APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Analysis: quality of care. Wagner D, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S210–2

Reassessing intensive care for patients with the acquired immunodeficiency syndrome. Singer P, et al. **Heart Lung** 1990 Jul;19(4):387–94 (59 ref.)

Combining clinical judgement and statistical data in expert systems: over-the-telephone management decisions for critical congenital heart disease in the first month of life. Franklin RC, et al. **Int J Clin Monit Comput** 1989 Jul; 6(3):157–66

The rate of gastrointestinal bleeding in a general ICU population: a retrospective study. Gurman G, et al. **Intensive Care Med** 1990;16(1):44–9

AIDS: intensive care utilization and outcome. Lee P, et al. **J Ky Med Assoc** 1990 Jan;88(1):17–9

Critical limits for urgent clinician notification at US medical centers [see comments] Kost GJ. **JAMA** 1990 Feb 2; 263(5):704–7 Comment in: JAMA 1990 Feb 2;263(5):709. Comment in: JAMA 1990 Jul 18;264(3):334–5.

Ethical principles in critical care. Luce JM. **JAMA** 1990 Feb 2;263(5):696–700

Critical (panic) value notification: an established laboratory practice policy (parameter) [editorial; comment] Lundberg GD. **JAMA** 1990 Feb 2;263(5):709 Comment on: JAMA 1990 Feb 2;263(5):704–7.

[Errors in the conservative treatment of patients who died of acute pancreatitis] Lashchevker VM, et al. **Klin Khir** 1989;(11):57–8 (Rus)

[Support of personnel and increased contact with relatives improves the quality of intensive care] Söderlind K, et al. **Lakartidningen** 1990 Jul 11;87(28–29):2366–7 (Swe)

STATISTICS & NUMERICAL DATA

Are elderly people less responsive to intensive care? Wu AW, et al. **J Am Geriatr Soc** 1990 Jun;38(6):621–7

TRENDS

Critical care medicine. Organizing and staffing intensive care units. Safar P, et al. **Chest** 1971 May;59(5):535–47 (119 ref.)

The chest physician and intensive care [editorial] Soffer A. **Chest** 1971 May;59(5):474–5

The new practice of critical care medicine [editorial] Weil M, et al. **Chest** 1971 May;59(5):473–4

The Noah principle: change, challenge, and creativity. Evans SA. **Heart Lung** 1990 Jul;19(4):23A–27A

The changing challenges of critical care [editorial] Knaus WA. **Intensive Care Med** 1989;15(7):415–6

Intensive care medicine—a review. Wendon J, et al. **Postgrad Med J** 1989 Dec;65(770):875–80 (64 ref.)

[Medical specialty journals: contribution to quality assurance in anesthesia and intensive care medicine] Krier C, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):183–5 (Ger)

[Intensive therapy—status symbol or form and expression of medical progress? (letter)] Stober HD, et al. **Z Gesamte Inn Med** 1990 Apr 1;45(7):200–2 (Ger)

UTILIZATION

Are two (inexperienced) heads better than one (experienced) head? Averaging house officers' prognostic judgments for critically ill patients. Poses RM, et al. **Arch Intern Med** 1990 Sep;150(9):1874–8

CRITICAL PERIOD (PSYCHOLOGY)

Embryology, ethology and ecology of ontogenetic critical periods in fish. Browman HI. **Brain Behav Evol** 1989; 34(1):5–12 (73 ref.)

CROAKERS see PERCIFORMES

CROHN DISEASE

Clinical course of Crohn's disease in older patients. A retrospective study. Roberts PL, et al. **Dis Colon Rectum** 1990 Jun;33(6):458–62

Crohn's disease and NSAID enteropathy—a unifying model [letter] Banerjee AK, et al. **Gastroenterology** 1990 Oct; 99(4):1190–2

Crohn's disease. Tytgat KM, et al. **Hepatogastroenterology** 1990 Feb;37(1):1–5 (56 ref.)

Aetiology and pathogenesis of ulcerative colitis and Crohn's disease. Jewell DP. **Postgrad Med J** 1989 Oct;65(768):718–9 (23 ref.)

[Chronic inflammatory stomach disorders (Crohn disease—ulcerative colitis)] **Internist (Berl)** 1989 Mar;30(3 Suppl [CHRONIS]):1–16 (Ger)

BLOOD

A comparison of serum mucoprotein with serum alpha 1 acid glycoprotein, haptoglobin, and alpha 1 antitrypsin assays in monitoring inflammatory bowel disease. Lubega J, et al. **Clin Chim Acta** 1990 Apr 13;188(1):59–69

An inhibitor of the toxicity of tumour necrosis factor in the serum of patients with sarcoidosis, tuberculosis and Crohn's disease. Foley N, et al. **Clin Exp Immunol** 1990 Jun; 80(3):395–9

Vasoactive intestinal peptide as a laboratory supplement to clinical activity index in inflammatory bowel disease. Duffy LC, et al. **Dig Dis Sci** 1989 Oct;34(10):1528–35

Elevated levels of soluble interleukin-2 receptors in Crohn's disease [letter] Duclos B, et al. **Gastroenterol Clin Biol** 1990; 14(1):104–5

Plasma interleukin-2 and a soluble/shed interleukin-2 receptor in serum of patients with Crohn's disease. Effect of cyclosporin. Brynskov J, et al. **Gut** 1990 Jul;31(7):795–9

Lack of sex dependence of the serum level of immunoreactive erythropoietin in chronic anemia. Jelkmann W, et al. **Klin Wochenschr** 1989 Dec 4;67(23):1218

Red cell folate concentrations in patients with Crohn's disease on parenteral nutrition. Tominaga M, et al. **Postgrad Med J** 1989 Nov;65(769):818–20

Impaired fibrinolytic capacity in patients with inflammatory bowel disease. Gris JC, et al. **Thromb Haemost** 1990 Jun 28;63(3):472–5

[Biological manifestations of a prethrombotic state in developmental Crohn's disease] Chamouard P, et al. **Gastroenterol Clin Biol** 1990;14(3):203–8 (44 ref.) (Eng. Abstr.) **(Fre)**

[Factor V–specific circulating anticoagulant and enteropathy. 2 cases] Taillan B, et al. **Presse Med** 1990 Feb 10; 19(5):211–2 (Eng. Abstr.) **(Fre)**

[The metabolic and phagocytic activities of the neutrophilic granulocytes in patients with nonspecific ulcerative colitis nd Crohn's disease] Blazhenko IL, et al. **Vrach Delo** 1990 Jun;(6):61–2 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Lack of association between oral contraceptive use and Crohn's disease: a community-based matched case-control study. Lashner BA, et al. **Gastroenterology** 1989 Dec; 97(6):1442–7

CLASSIFICATION

Ulcerative colitis and Crohn's disease—one or two diseases? [comment] Mafatka Z. **J Clin Gastroenterol** 1989 Dec; 11(6):712–4 Comment on: J Clin Gastroenterol 1989 Feb;11(1):8–9.

COMPLICATIONS

Psoas abscess complicating Crohn's disease. Shokouh-Amiri MH, et al. **Acta Chir Scand** 1989 Aug;155(8):409–12

Sweet's syndrome associated with Crohn's disease. Becuwe C, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):444–5

Polyneuropathy: an unusual extraintestinal manifestation of Crohn's disease. Humbert P, et al. **Acta Neurol Scand** 1989 Oct;80(4):301–6

Aortic regurgitation in Crohn's disease [letter; comment] **Am Heart J** 1990 Jun;119(6):1444–6 Comment on: Am Heart J 1989 Jul;118(1):174–6.

Colonic perforation following mild trauma in a patient with Crohn's disease. Johnson GA, et al. **Am J Emerg Med** 1990 Jul;8(4):340–1

Increased occurrence of psoriasis in patients with Crohn's disease and their relatives. Lee FI, et al. **Am J Gastroenterol** 1990 Aug;85(8):962–3

Symptomatic differentiation of duodenal from gastric fistulas in Crohn's disease. Spirt M, et al. **Am J Gastroenterol** 1990 Apr;85(4):455–8

Rapid improvement in dermatitis after zinc supplementation in a patient with Crohn's disease. Heimburger DC, et al. **Am J Med** 1990 Jan;88(1):71–3

Surgical management of perforated Crohn's disease. Voeller G, et al. **Am Surg** 1990 Feb;56(2):100–3

Life-threatening diarrhea after short-term misoprostol use in a patient with Crohn ileocolitis. Kornbluth A, et al. **Ann Intern Med** 1990 Sep 15;113(6):474–5

Anal lesions in Crohn's disease. Marks CG. **Ann R Coll Surg Engl** 1990 May;72(3):158–9 (6 ref.)

Strictureplasty in Crohn's disease. Fazio VW, et al. **Ann Surg** 1989 Nov;210(5):621–5

Metastatic Crohn's disease. Case report and review of the literature. Shum DT, et al. **Arch Dermatol** 1990 May; 126(5):645–8 (23 ref.)

Anorexia nervosa complicating inflammatory bowel disease. Mallett P, et al. **Arch Dis Child** 1990 Mar;65(3):298–300

An unusual cutaneous manifestation of Crohn's disease. Smoller BR, et al. **Arch Pathol Lab Med** 1990 Jun; 114(6):609–10

Strictureplasty of the small bowel in patients with Crohn's disease. An effective surgical option. Pritchard TJ, et al. **Arch Surg** 1990 Jun;125(6):715–7

Orange/black discolouration of the bowel (at laparotomy) due to clofazimine. Merrett MN, et al. **Aust N Z J Surg** 1990 Aug;60(8):638–9

Omeprazole for duodenal ulceration in Crohn's disease. Valori RM, et al. **BMJ** 1990 Feb 17;300(6722):438–9

Failure of allopurinol to modify urinary composition in enteric hyperoxaluria. D'Cruz DP, et al. **Br J Urol** 1989 Sep;64(3):231–4

Reversal of progressive nyctalopia in a patient with Crohn's disease. Gans M, et al. **Can J Ophthalmol** 1990 Apr; 25(3):156–8

Parakeratotic horns in a patient with Crohn's disease. Aloi FG, et al. **Clin Exp Dermatol** 1989 Jan;14(1):79–81

Metastatic Crohn's disease. Buckley C, et al. **Clin Exp Dermatol** 1990 Mar;15(2):131–3

Amyloidosis complicating inflammatory bowel disease. A case report and review of the literature. Gitkind MJ, et al. **Dig Dis Sci** 1990 Jul;35(7):906–8 (18 ref.)

Budd-Chiari syndrome and Crohn's disease. An unreported association. Maccini DM, et al. **Dig Dis Sci** 1989 Dec; 34(12):1933–6

Enterovesical fistula from Meckel's diverticulum in a patient with Crohn's ileitis. Petros JG, et al. **Dig Dis Sci** 1990 Jan; 35(1):133–6

Giant inflammatory polyps associated with idiopathic inflammatory bowel disease. An ultrastructural study of five cases. Baláza M. **Dis Colon Rectum** 1990 Sep; 33(9):773–7

Rectovaginal fistula in Crohn's disease. Cohen JL, et al. **Dis Colon Rectum** 1989 Oct;32(10):825–8

Experience with perirectal fistulas in patients with Crohn's disease. Fuhrman GM, et al. **Dis Colon Rectum** 1989 Oct; 32(10):847–8

Gastric fistulas in Crohn's disease. Report of cases. Greenstein AJ, et al. **Dis Colon Rectum** 1989 Oct; 32(10):888–92

Cholelithiasis in inflammatory bowel disease. A case-control study. Lorusso D, et al. **Dis Colon Rectum** 1990 Sep; 33(9):791–4

Surgical treatment of enterovesical fistulas in Crohn's disease. McNamara MJ, et al. **Dis Colon Rectum** 1990 Apr; 33(4):271–6

Surgical management of anorectal fistulas in Crohn's disease. Morrison JG, et al. **Dis Colon Rectum** 1989 Jun;32(6):492–6

Results of operation for rectovaginal fistula in Crohn's disease. Morrison JG, et al. **Dis Colon Rectum** 1989 Jun; 32(6):497–9

Gastrointestinal malignancies in Crohn's disease. A 20-year experience. Savoca PE, et al. **Dis Colon Rectum** 1990 Jan; 33(1):7–11

Seton management of complex anorectal fistulas in patients with Crohn's disease. White RA, et al. **Dis Colon Rectum** 1990 Jul;33(7):587–9

Crohn's disease of the esophagus. Bonavina L, et al. **Dysphagia** 1989;4(3):176–9

Increased risk of preterm birth for women with inflammatory bowel disease. Baird DD, et al. **Gastroenterology** 1990 Oct; 99(4):987–94

Vulval lymphangiectasia. Handfield-Jones SE, et al. **Genitourin Med** 1989 Oct;65(5):335–7 (14 ref.)

Nutritional care for patients with Crohn's disease. Afonso JJ, et al. **Hepatogastroenterology** 1990 Feb;37(1):32–41 (72 ref.)

Gallstones in Crohn's disease. Kangas E, et al. **Hepatogastroenterology** 1990 Feb;37(1):83–4

Hepatic abscess in Crohn's disease. Veloso FT, et al. **Hepatogastroenterology** 1990 Apr;37(2):215–6

Conservative treatment of low rectovaginal fistula in Crohn's disease. Francois Y, et al. **Int J Colorectal Dis** 1990 Feb; 5(1):12–4

Small bowel angiodysplasia in association with Crohn's ileitis. A case report. Minervini S, et al. **Ital J Surg Sci** 1989; 19(4):399–400

Erythema elevatum diutinum in a patient with Crohn's disease. Walker KD, et al. **J Am Acad Dermatol** 1990 May; 22(5 Pt 2):948–52

Flexion deformity of the hip in Crohn's disease. Lucarotti ME, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):156–7

Spinal empyema in Crohn's disease. Hershkowitz S, et al. **J Clin Gastroenterol** 1990 Feb;12(1):67–9

Crohn disease in an infant with central nervous system thrombosis and protein-losing enteropathy. Mezoff AG, et al. **J Pediatr** 1990 Sep;117(3):436–9 (14 ref.)

Crohn's disease in cystic fibrosis. Behrens R, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):528–31

Perineal reconstruction with rectus abdominis flap after resection of anal carcinoma in Crohn's disease. Roe AM, et al. **J R Soc Med** 1989 Jun;82(6):369–70

Cutaneous polyarteritis nodosa associated with Crohn's disease. Report and review of the literature. Gudbjörnsson B, et al. **J Rheumatol** 1990 Mar;17(3):386–90 (16 ref.)

Cancer in inflammatory bowel disease. Greenstein AJ, et al. **Jpn J Surg** 1989 Nov;19(6):633–44 (95 ref.)

The medical, nutritional and surgical treatment of fistulae in Crohn's disease. Yamazaki Y, et al. **Jpn J Surg** 1990 Jul;20(4):376–83 (33 ref.)

Increased risk of large-bowel cancer in Crohn's disease with colonic involvement. Ekbom A, et al. **Lancet** 1990 Aug 11;336(8711):357–9

Pathogenesis of Crohn's disease: multifocal gastrointestinal infarction [see comments] Wakefield AJ, et al. **Lancet** 1989 Nov 4;2(8671):1057–62 Comment in: Lancet 1989 Dec 16;2(8677):1459–60. Comment in: Lancet 1990 Mar 3;335(8688):551. Comment in: Lancet 1990 Apr 7;335(8693):858.

Alopecia totalis in a patient with Crohn's disease and its treatment with azathioprine. Goddard CJ, et al. **Postgrad Med J** 1989 Mar;65(761):188–9

Coexistent Crohn's disease and sigmoid diverticulosis. McCue J, et al. **Postgrad Med J** 1989 Sep;65(767):636–9

Axillary artery occlusion as a presenting feature of Crohn's disease. Sheehan-Dare RA, et al. **Postgrad Med J** 1989 Oct;65(768):758–60

Inflammatory bowel disease: nutritional implications and treatment. Silk DB, et al. **Proc Nutr Soc** 1989 Sep; 48(3):355–61 (52 ref.)

The association of autoimmune disorders with inflammatory bowel disease. Snook JA, et al. **Q J Med** 1989 Sep; 72(269):835–40

Hydroureteronephrosis in Crohn's disease. Vecchioli A, et al. **Rays** 1989 Apr-Jun;14(2):163–6

Gallstone ileus associated with Crohn's disease. Senofsky GM, et al. **Surgery** 1990 Jul;108(1):114–7

Crohn's disease revealed by a pelvic femoral osteomyelitis: a case report. Dziri C, et al. **Tunis Med** 1990 Feb; 68(2):151–3

[A case of Crohn's disease of the large intestine with complications] Kalcheva V, et al. **Khirurgiia (Sofiia)** 1990; 43(2):58–9 **(Bul)**

[A case of a chronically complicated form of terminal ileitis] Konstantinov B, et al. **Khirurgiia (Sofiia)** 1989;42(4):63–4 **(Bul)**

[Is it necessary to search for dysplasia in Crohn's disease?] Geboes K. **Ann Pathol** 1990;10(3):149–51 (29 ref.) **(Fre)**

[Arterial thrombotic complications in Crohn's disease] Chamouard P, et al. **Gastroenterol Clin Biol** 1990; 14(3):278–82 (33 ref.) (Eng. Abstr.) **(Fre)**

[Hepatic abscess complicating ileal Crohn disease in remission. Efficacy of antibiotherapy] de Ronde T, et al. **Gastroenterol Clin Biol** 1990;14(2):175–7 (Eng. Abstr.) **(Fre)**

[Sheathing periostitis and Crohn's disease] Duvoux C, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):841–4 (11 ref.) (Eng. Abstr.) **(Fre)**

[Pericarditis and colectasia disclosing Crohn's disease (letter)] Eugène C, et al. **Gastroenterol Clin Biol** 1989 Oct; 13(10):846–7 **(Fre)**

[Extended ileocolonic Crohn's disease, and malignant large-cell lymphoma with a rapidly fatal course (letter)] Pflumio F, et al. **Gastroenterol Clin Biol** 1990;14(4):403–4 **(Fre)**

[Isolated gastroduodenal localization of Crohn's disease. Apropos of a case (letter)] Alamowitch C. **J Chir (Paris)** 1990 May;127(5):302–3 **(Fre)**

[Abscess of the psoas muscle: a complication of Crohn's disease] Slim K, et al. **Tunis Med** 1989 Oct;67(10):641–3 (Eng. Abstr.) **(Fre)**

[Enteropathic arthritis] Klein G, et al. **Internist (Berl)** 1989 Oct;30(10):673–7 (41 ref.) **(Ger)**

[Pyoderma gangrenosum and Crohn's disease] Siragusa G, et al. **Minerva Chir** 1990 Apr 15;45(7):505–8 (Eng. Abstr.) **(Ita)**

[Hydronephrosis caused by Crohn's disease: a case report—review of 41 cases with urinary tract complication reported in Japan] Matsumiya K, et al. **Hinyokika Kiyo** 1989 May;35(5):863–9 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Ileovesical fistula complicating Crohn's disease: a case report] Mizunaga M, et al. **Hinyokika Kiyo** 1989 Jul; 35(7):1223–7 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Vesicorectal fistula associated with Crohn's disease: a case report] Sekihara T, et al. **Hinyokika Kiyo** 1990 May; 36(5):613–6 (Eng. Abstr.) **(Jpn)**

[Ileovesical fistula due to Crohn's disease: a case report] Shrestha GR, et al. **Hinyokika Kiyo** 1989 Nov; 35(11):1935–7 (Eng. Abstr.) **(Jpn)**

[Arterial thrombosis associated with Crohn's disease: a case report] Yamana K, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):774–7 (Eng. Abstr.) **(Jpn)**

[A case of amyloidosis secondary to Crohn's disease] Araki T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep; 86(9):2227–31 **(Jpn)**

[A case report of Crohn's disease complicated with renal amyloidosis] Kikuchi H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Nov; 86(11):2579–82 **(Jpn)**

[Crohn's disease with various extra-intestinal complications] Takahashi K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr;87(4):1056–60 **(Jpn)**

[A case of Crohn's disease complicated with hypokalemic paralysis] Takeuchi N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1321–5 **(Jpn)**

[A case of ankylosing spondylitis complicating Crohn's disease] Tanosaki R, et al. **Ryumachi** 1989 Oct;29(5):379–83, discussion 383–4 (Eng. Abstr.) **(Jpn)**

[Primary sclerosing cholangitis and inflammatory bowel disease] Schrumpf E, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1212–6 (Eng. Abstr.) **(Nor)**

[Pathogenetic treatment of chronic paraproctitis] Myshkin KI, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):110–3 (Eng. Abstr.) **(Rus)**

[Rare complications of Crohn disease] Leshchenko AP, et al. **Klin Khir** 1990;(2):47–8 **(Rus)**

[Clinico-radiologic features of the kidneys in patients with nonspecific colitis] Topchiĭ TV, et al. **Klin Khir** 1990; (2):13–6 (Eng. Abstr.) **(Rus)**

[Endogenous toxemia in nonspecific colitis] Golovenko OV, et al. **Sov Med** 1990;(1):67–9 **(Rus)**

[Metastatic Crohn disease of the scrotum] Alonso ML, et al. **Med Cutan Ibero Lat Am** 1989;17(6):391–4 (Eng. Abstr.) **(Spa)**

[Papulopustular eruption in intestinal inflammatory disease] Cruz A, et al. **Med Cutan Ibero Lat Am** 1989;17(6):343–7 (22 ref.) (Eng. Abstr.) **(Spa)**

[Recurrent Miller-Fisher syndrome associated with brachial neuritis] Viñals M, et al. **Neurologia** 1989 Mar;4(2):61–5 (Eng. Abstr.) **(Spa)**

[Intestinal fistula in Crohn disease] Morales V, et al. **Rev Esp Enferm Apar Dig** 1989 Aug;76(2):115–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Clinical disease activity and inflammatory activity in the rectum in relation to mucosal inflammation assessed by colonoscopy. A study of children and adolescents with chronic inflammatory bowel disease. Holmquist L, et al. **Acta Paediatr Scand** 1990 May;79(5):527–34

Intestinal tuberculosis presenting as Crohn's disease—Quebec. Noel GE, et al. **Can Dis Wkly Rep** 1989 Oct 21;15(42):209–11 **(Eng, Fre)**

Measurement of lysozyme in human body fluids: comparison of various enzyme immunoassay techniques and their diagnostic application. Porstmann B, et al. **Clin Biochem** 1989 Oct;22(5):349–55

Crohn's disease in ileal J-pouch [letter; comment] Sakanoue Y, et al. **Dis Colon Rectum** 1990 Jun;33(6):541 Comment on: Dis Colon Rectum 1989 Aug;32(8):653–8.

Crohn's disease in ileal J-pouch [letter; comment] Sakanoue

Y, et al. **Dis Colon Rectum** 1990 Feb;33(2):167–8 Comment on: Dis Colon Rectum 1989 Aug;32(8):653–8.
Differentiating tuberculosis from Crohn's disease of the small bowel [letter] Shah P, et al. **Dis Colon Rectum** 1989 Oct; 32(10):905
Crohn's disease versus tuberculosis: case report. Laajam A. **East Afr Med J** 1989 Sep;66(9):620–5
C9 and factor B as acute phase proteins and their diagnostic and prognostic value in disease. Adinolfi M, et al. **Exp Clin Immmunogenet** 1988;5(2–3):123–32 (19 ref.)
Early esophageal Crohn's disease: an endoscopic view. Fernandez CM, et al. **Gastrointest Endosc** 1990 May–Jun; 36(3):303–4
Are activity indices helpful in assessing active intestinal inflammation in Crohn's disease? Crama–Bohbouth G, et al. **Gut** 1989 Sep;30(9):1236–40
Diagnosis of Crohn's disease. Bozdech JM, et al. **Hepatogastroenterology** 1990 Feb;37(1):8–17 (123 ref.)
The pathological diagnosis and differential diagnosis of Crohn's disease. Tanaka M, et al. **Hepatogastroenterology** 1990 Feb;37(1):18–31 (89 ref.)
Sera–reactivity in inflammatory bowel disease: frequency of recognition of Crohn's disease tissue primed nude mouse lymphoid tissue in an interinstitutional blinded study [see comments] Zuckerman MJ, et al. **J Clin Gastroenterol** 1989 Dec;11(6):639–44 Comment in: J Clin Gastroenterol 1989 Dec;11(6):613–4.
Gastroduodenal Crohn's disease in childhood [editorial] Kirschner BS, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug; 9(2):138–40
Crohn's disease [letter; comment] Jones R. **J R Coll Gen Pract** 1989 Mar;39(320):122, 124 Comment on: J R Coll Gen Pract 1988 Dec;38(317):549–51.
A complex cystic abdominal mass: an unusual presentation of Crohn's disease in an anticoagulated patient. Khan AN, et al. **JCU** 1988 May;16(4):271–4
Sonographic features of colonic Crohn's disease: comparison of in vivo and in vitro studies. Limberg B. **JCU** 1990 Mar–Apr;18(3):161–6
Criteria of case definition in Crohn's disease and ulcerative colitis. O'Morain C, et al. **Scand J Gastroenterol Suppl** 1989; 170:7–11; discussion 16–9
Endoscopy in inflammatory bowel disease. Rutgeerts P, et al. **Scand J Gastroenterol Suppl** 1989;170:12–5; discussion 16–9
Crohn's disease presenting as pelvic mass: case report. Lassere MW. **Va Med** 1989 Nov;116(11):471–2
[Gastric Crohn's disease (1st African case seen at the Hôpital Principal in Dakar) Peghini M, et al. **Dakar Med** 1988; 33(1–4):107–10 (Eng. Abstr.) **(Fre)**
[Serum angiotensin–converting enzyme in Crohn's disease (letter)] Emery Y, et al. **Presse Med** 1990 May 19;19(20):966 **(Fre)**
[The coincidence of acute intermittent porphyria and Crohn's disease] Beckh K, et al. **Dtsch Med Wochenschr** 1990 May 25;115(21):817–20 (Eng. Abstr.) **(Ger)**
[The early recurrence of Crohn's disease after "curative" ileocecal resection. A prospective endoscopic and histological study] Gabbert HE, et al. **Dtsch Med Wochenschr** 1990 Mar 23;115(12):447–51 (Eng. Abstr.) **(Ger)**
[Cheilitis granulomatosa as the first manifestation of Crohn's disease] Jenss H, et al. **Dtsch Med Wochenschr** 1989 Oct 6;114(40):1524–7 (Eng. Abstr.) **(Ger)**
[Diagnosis of Crohn disease] Riemann JF. **Dtsch Med Wochenschr** 1989 Oct 20;114(42):1616–9 **(Ger)**
[Pregnancy in Crohn disease and ulcerative colitis. Maternal and fetal risks] Haverkamp F, et al. **Geburtshilfe Frauenheilkd** 1990 May;50(5):339–43 (35 ref.) (Eng. Abstr.) **(Ger)**
[The characteristics of the clinical picture and treatment of nonspecific ulcerative colitis and Crohn's disease] Ryss ES, et al. **Ter Arkh** 1990;62(2):150–3 (25 ref.) **(Rus)**
[Differential diagnosis of nonspecific ulcerative colitis and Crohn disease of the colon] Valtaĭtis IuV, et al. **Vestn Khir** 1989 Nov;143(11):115–8 **(Rus)**

DIET THERAPY

Nutrition in Crohn's disease. Lennard–Jones JE. **Ann R Coll Surg Engl** 1990 May;72(3):152–4 (24 ref.)
Treatment of patient with severe steroid–dependent Crohn's disease with nonelemental formula diet. Identification of possible etiologic dietary factor. Ginsberg AL, et al. **Dig Dis Sci** 1989 Oct;34(10):1624–8
Diets in Crohn's disease [letter; comment] Park R, et al. **Lancet** 1990 Jun 16;335(8703):1475–6 Comment on: Lancet 1990 Apr 7;335(8693):816–9.
Effects of an elemental diet containing fish oil on neutrophil LTB4 synthesis and membrane lipid composition. Scheurlen M, et al. **Prog Clin Biol Res** 1989;301:505–9
Feasibility and effectiveness of a defined–formula diet regimen in treating active Crohn's disease. European Cooperative Crohn's Disease Study III. Malchow H, et al. **Scand J Gastroenterol** 1990 Mar;25(3):235–44
[Should a dietary regime be prescribed in Crohn disease during remission periods?] Le Quintrec Y. **Ann Gastroenterol Hepatol (Paris)** 1990 Mar–Apr; 26(2):71–5 (41 ref.) **(Fre)**
[Dietary therapy in Crohn disease] Scheurlen C. **Internist (Berl)** 1990 Jun;31(6):433 **(Ger)**
[Patients with acute Crohn disease can be treated with nasogastric sond nutrition] Bodemar G, et al. **Lakartidningen** 1990 May 16;87(20):1756–8 **(Swe)**

DRUG THERAPY

Cyclosporine use in steroid–resistant Crohn's disease—grasping at new straws? Coman E, et al. **Am J Gastroenterol** 1990 Jun;85(6):758–9
Pericardial effusion during treatment with 5–aminosalicylic acid in a patient with Crohn's disease [letter] Jenss H, et al. **Am J Gastroenterol** 1990 Mar;85(3):332–3
6–Mercaptopurine in the management of inflammatory bowel disease: short– and long–term toxicity. Present DH, et al. **Ann Intern Med** 1989 Oct 15;111(8):641–9
Crohn's disease and mycobacteria: two cases of Crohn's disease with high anti–mycobacterial antibody levels cured by dapsone therapy. Prantera C, et al. **Biomed Pharmacother** 1989;43(4):295–9 (30 ref.)
Renographic monitoring of renal function in patients with Crohn's disease treated with low dose cyclosporin: a controlled study. Brynskov J, et al. **BMJ** 1990 Jun 2; 300(6737):1438–9
Acute pancreatitis during oral 5–aminosalicylic acid therapy. Fiorentini MT, et al. **Dig Dis Sci** 1990 Sep;35(9):1180–2
Slow–release 5–amino–salicylic acid (Pentasa) for the treatment of active Crohn's disease. Mahida YR, et al. **Digestion** 1990;45(2):88–92
Phase II trial of copper zinc superoxide dismutase (CuZnSOD) in treatment of Crohn's disease. Emerit J, et al. **Free Radic Biol Med** 1989;7(2):145–9
Cyclosporine in Crohn's disease—low doses won't do it. Elson CO. **Gastroenterology** 1990 May;98(5 Pt 1):1383–4
Clinical, biological, and endoscopic picture of attacks of Crohn's disease. Evolution on prednisolone. Groupe d'Etude Thérapeutique des Affections Inflammatoires Digestives. Modigliani R, et al. **Gastroenterology** 1990 Apr; 98(4):811–8
Glucocorticoid treatment in ileal Crohn's disease: relief of symptoms but not of endoscopically viewed inflammation. Olaison G, et al. **Gut** 1990 Mar;31(3):325–8
Medical management of Crohn's disease. Meyers S, et al. **Hepatogastroenterology** 1990 Feb;37(1):42–55 (196 ref.)
Cutaneous Crohn's disease: treatment with intralesional steroids [letter] Alegre VA, et al. **Int J Dermatol** 1989 Oct; 28(8):552–4
Unsatisfactory effect of cyclosporin A treatment in Crohn's disease: a report of five cases. Löfberg R, et al. **J Intern Med** 1989 Sep;226(3):157–61
Cyclosporine in Crohn's disease [letter] **N Engl J Med** 1990 Mar 1;322(9):636–7
Steroid–related avascular necrosis and Crohns' disease [letter] Ruttenberg D, et al. **S Afr Med J** 1990 Apr 21;77(8):426
The role of mesalazine in Crohn's disease. Hanauer SB. **Scand J Gastroenterol Suppl** 1990;172:56–9 (18 ref.)
Gastrointestinal transit and release of mesalazine tablets in patients with inflammatory bowel disease. Healey JN. **Scand J Gastroenterol Suppl** 1990;172:47–51
[Azathioprine, 6–mercaptopurine, and inflammatory diseases of the intestine] Beaugerie L, et al. **Gastroenterol Clin Biol** 1990;14(3):230–40 (85 ref.) **(Fre)**
[Treatment of Crohn's disease with azathioprine or 6–mercaptopurine. Retrospective study of 126 cases] Lémann M, et al. **Gastroenterol Clin Biol** 1990; 14(6–7):548–54 (Eng. Abstr.) **(Fre)**
[Inflammatory bowel diseases and the course of pregnancy] Rasenack J, et al. **Gynakologe** 1990 Feb;23(1):11–7 (85 ref.) **(Ger)**
[Prevention of recurrence of chronic inflammatory bowel diseases] Dölle W, et al. **Verh Dtsch Ges Inn Med** 1989; 95:322–6 (19 ref.) **(Ger)**
[The course of Crohn disease and side effect profile with long–term treatment using metronidazole] Gugler R, et al. **Z Gastroenterol** 1989 Nov;27(11):676–82 (Eng. Abstr.) **(Ger)**
[New developments in the treatment of inflammatory bowel diseases. What is certain?] Feurle GE. **Z Gastroenterol [Verh]** 1990 Apr;25:150–2 (30 ref.) **(Ger)**
[New treatments for ulcerative colitis and Crohn's disease] Jewell DP. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep; 86(9):2323–62 **(Jpn)**
[Immunocorrective therapy of chronic nonspecific inflammatory diseases of the intestines (a review of the literature)] Tkach SM, et al. **Vrach Delo** 1989 Sep;(9):58–62 (39 ref.) **(Rus)**

ECONOMICS

Potential economic impact of applying DRG–based prospective payment categories to inflammatory bowel disease patients. Vulgaropulos SP, et al. **Dig Dis Sci** 1990 May;35(5):577–81

ENZYMOLOGY

Human intestinal diamine oxidase (DAO) activity in Crohn's disease: a new marker for disease assessment? Schmidt WU, et al. **Agents Actions** 1990 Apr;30(1–2):267–70
Hypolactasia and Crohn's disease: a myth. Park RH, et al. **Am J Gastroenterol** 1990 Jun;85(6):708–10
Increase in permeability and phospholipase A2 activity of colonic mucosa in Crohn's colitis. Olaison G, et al. **Digestion** 1989;43(4):228–33
Na,K–ATPase activity in rectal mucosa of children with ulcerative colitis and Crohn's disease. Ejderhamn J, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1121–5

EPIDEMIOLOGY

The incidence of Crohn's disease in the Helsinki metropolitan area during 1975–1985. Halme L, et al. **Ann Chir Gynaecol** 1989;78(2):115–9
Inflammatory bowel disease in rural sub–Saharan Africa: rarity of diagnosis in patients attending mission hospitals. Mayberry J, et al. **Digestion** 1989;44(3):172–6
Testing for course patterns in Crohn's disease using clustering analysis. Beaugerie L, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1036–41
Predictors of hospitalization early in the course of Crohn's disease. A pilot study. de Boer Visser N, et al. **Gastroenterology** 1990 Aug;99(2):380–5
Predictability of the postoperative course of Crohn's disease. Rutgeerts P, et al. **Gastroenterology** 1990 Oct;99(4):956–63
Some clinical aspects of Crohn's disease in Northern Ireland: an aid to earlier diagnosis? [see comments] Brown JS, et al. **J R Coll Gen Pract** 1988 Dec;38(317):549–51 Comment in: J R Coll Gen Pract 1989 Mar;39(320):122, 124.
Clinical features, morbidity and mortality of Scottish children with inflammatory bowel disease. Barton JR, et al. **Q J Med** 1990 May;75(277):423–39
Epidemiology of Crohn's disease in western Norway. Study group of Inflammatory Bowel Disease in Western Norway. Haug K, et al. **Scand J Gastroenterol** 1989 Dec; 24(10):1271–5
The incidence of Crohn's disease in northern Norway from 1983 to 1986. Northern Norway Gastroenterology Society. Kildebo S, et al. **Scand J Gastroenterol** 1989 Dec; 24(10):1265–70
Incidence of colonic cancer in inflammatory bowel disease. Binder V. **Scand J Gastroenterol Suppl** 1989;170:78; discussion 81–2
Inflammatory bowel disease in Iceland during a 30–year period, 1950–1979. Björnsson S. **Scand J Gastroenterol Suppl** 1989;170:47–9; discussion 50–5
Incidence of inflammatory bowel disease in northwestern France. Preliminary results in region Nord–Pas–de–Calais. Colombel JF, et al. **Scand J Gastroenterol Suppl** 1989; 170:22–4; discussion 50–5
Hospital incidence of Crohn's disease in the province of Palermo. A preliminary report. Cottone M, et al. **Scand J Gastroenterol Suppl** 1989;170:27–8; discussion 50–5
Epidemiology of inflammatory bowel disease in the county of Tübingen (West Germany). Daiss W, et al. **Scand J Gastroenterol Suppl** 1989;170:39–43; discussion 50–5
Risk of cancer in inflammatory bowel disease: why are the results in the reviewed literature so varied? Hordijk ML, et al. **Scand J Gastroenterol Suppl** 1989;170:70–4; discussion 81–2 (22 ref.)
The development of a standardized protocol for a prospective study of inflammatory bowel disease in Europe. Mayberry JF. **Scand J Gastroenterol Suppl** 1989;170:84–5; discussion 86–8
Inflammatory bowel disease in migrant and native Jewish populations of southern Israel. Odes HS, et al. **Scand J Gastroenterol Suppl** 1989;170:36–8; discussion 50–5
Risk factors in inflammatory bowel disease. O'Morain C, et al. **Scand J Gastroenterol Suppl** 1989;170:58–60; discussion 66–8
Inflammatory bowel disease of the Faroe Islands, 1981–1988. A prospective epidemiologic study: primary report. Róin F, et al. **Scand J Gastroenterol Suppl** 1989;170:44–6; discussion 50–5
Crohn's disease in Galicia, Spain. Ruiz V. **Scand J Gastroenterol Suppl** 1989;170:29–31; discussion 50–5
Inflammatory bowel disease in Oporto. A prospective hospital study. Tavarela Veloso F, et al. **Scand J Gastroenterol Suppl** 1989;170:32–5; discussion 50–5
Crohn's disease in Northern Ireland—a retrospective study of 440 cases. Humphreys WG, et al. **Ulster Med J** 1990 Apr;59(1):30–5
[Chronic intestinal inflammatory disease. Review of our case load] Pérez Mota A, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):572–3 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Crohn's disease in Ashkenazi Jews [letter] Zlotogora J, et al. **Gastroenterology** 1990 Jul;99(1):286–7

ETIOLOGY

Cigarette smoking and risk of clinical relapse in patients with Crohn's disease. Duffy LC, et al. **Am J Prev Med** 1990 May–Jun;6(3):161–6
Phagocytes, toxic oxygen metabolites and inflammatory bowel disease: implications for treatment. Williams JG. **Ann R Coll Surg Engl** 1990 Jul;72(4):253–62 (118 ref.)
A meta–analysis of the role of smoking in inflammatory bowel disease. Calkins BM. **Dig Dis Sci** 1989 Dec; 34(12):1841–54
Dietary antigens as aggravating factors in Crohn's disease [editorial] Harris ML, et al. **Dig Dis Sci** 1989 Oct; 34(10):1613–4
Increased sugar consumption in Japanese patients with Crohn's disease. Matsui T, et al. **Gastroenterol Jpn** 1990 Apr;25(2):271
Mycobacteria as the cause of Crohn's disease [letter;

comment] Graham DY, et al. **Gastroenterology** 1989 Nov; 97(5):1354–6 Comment on: Gastroenterology 1989 Apr;96(4):1009–15.

Effect of cigarette smoking on recurrence of Crohn's disease. Sutherland LR, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1123–8

Pathogenesis of Crohn's disease [letter; comment] **Lancet** 1989 Dec 16;2(8677):1459–60 Comment on: Lancet 1989 Nov 4;2(8671):1057–62.

Pathogenesis of Crohn's disease [letter; comment] Gasser P, et al. **Lancet** 1990 Mar 3;335(8688):551 Comment on: Lancet 1989 Nov 4;2(8671):1057–62.

Pathogenesis of Crohn's disease [letter; comment] Price AB, et al. **Lancet** 1990 Apr 7;335(8693):858 Comment on: Lancet 1989 Nov 4;2(8671):1057–62.

[Nutrition and Crohn disease—an etiologic factor?] Bielefeldt K, et al. **Z Gastroenterol** 1989 Sep;27(9):455–8 (30 ref.) (Eng. Abstr.) **(Ger)**

[Smoking and inflammatory bowel diseases] Katschinski B, et al. **Z Gastroenterol** 1989 Oct;27(10):614–8 (Eng. Abstr.) **(Ger)**

[Crohn disease in 3 siblings] Rivas J, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):45–8 (Eng. Abstr.) **(Spa)**

GENETICS

Crohn's disease in the Japanese is associated with the HLA–DRw53. Kobayashi K, et al. **Exp Clin Immunogenet** 1990;7(2):101–8

Familial Crohn's disease in multiple siblings: no linkage to the HLA system. Colombel JF, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):676–8

Crohn's disease in four members of a family, two of whom are dizygotic twins. Purrmann J, et al. **Hepatogastroenterology** 1990 Feb;37(1):81–2

T cell antigen receptor V gene usage. Increases in V beta 8+ T cells in Crohn's disease. Posnett DN, et al. **J Clin Invest** 1990 Jun;85(6):1770–6

Study of family history among patients with inflammatory bowel disease. Farmer RG. **Scand J Gastroenterol Suppl** 1989;170:64–5; discussion 66–8

[Seronegative spondylarthritis in Crohn disease—clinical aspects and HLA association] Purrmann J, et al. **Ergeb Inn Med Kinderheilkd** 1989;59:213–32 (74 ref.) **(Ger)**

[Immunogenetics of chronic inflammatory bowel diseases] Purrmann J. **Z Gastroenterol [Verh]** 1990 Apr;25:52–4 (20 ref.) **(Ger)**

[A case of Crohn's disease occurring in siblings and their father] Kotera T, et al. **Nippon Naika Gakkai Zasshi** 1989 Dec;78(12):1793–4 **(Jpn)**

HISTORY

Thomas Kennedy Dalziel 1861–1924. Chronic interstitial enteritis [classical article] Dalziel TK. **Dis Colon Rectum** 1989 Dec;32(12):1076–8

IMMUNOLOGY

Role of prostaglandins on lymphocyte transformation in Crohn's disease. Echevarría S, et al. **Allergol Immunopathol (Madr)** 1989 Nov–Dec;17(6):317–21

Sensitivity to atypical mycobacterial antigens in patients with Crohn's disease. Morganroth J, et al. **Am J Dig Dis** 1970 Jul;15(7):653–7

Hybridomas using athymic nude mouse injected with Crohn's disease (CD) tissue filtrate. Immunoreactivity of the hybridomas with CD sera. Das KM, et al. **Am J Pathol** 1990 Jun;136(6):1375–82

Preliminary investigation on humoral and cellular immune responses to selected food proteins in patients with Crohn's disease. Frieri M, et al. **Ann Allergy** 1990 Apr;64(4):345–51

The CD8+ Leu–7+ subset of T cells in Crohn's disease: distinction between cytotoxic and covert suppressor functions. Deem RL, et al. **Clin Exp Immunol** 1990 Jun; 80(3):387–94

Immunological study of histologically non–involved jejunum during Crohn's disease: evidence for reduced in vivo secretion of secretory IgA. Marteau P, et al. **Clin Exp Immunol** 1990 May;80(2):196–201

Effect of human intestinal macrophages on immunoglobulin production by human intestinal mononuclear cells isolated from patients with inflammatory bowel disease. Wu KC, et al. **Clin Exp Immunol** 1990 Jan;79(1):35–40

Immunoglobulin production by isolated intestinal mononuclear cells from patients with ulcerative colitis and Crohn's disease. Wu KC, et al. **Clin Exp Immunol** 1989 Oct;78(1):37–41

Reactivity of aggregated immunoglobulin in Crohn's disease [letter] Das KM. **Gastroenterology** 1990 Sep;99(3):904–5

T–cell activation in Crohn's disease. Increased levels of soluble interleukin–2 receptor in serum and in supernatants of stimulated peripheral blood mononuclear cells. Mueller C, et al. **Gastroenterology** 1990 Mar;98(3):639–46

Seroreactivity of patients with Crohn's disease with lymph nodes of primed nude mice is independent of the tissue used for priming. Walvoort HC, et al. **Gastroenterology** 1989 Nov;97(5):1097–100

Agalactosyl IgG in inflammatory bowel disease: correlation with C–reactive protein. Dubé R, et al. **Gut** 1990 Apr; 31(4):431–4

Antibody to selected strains of Saccharomyces cerevisiae (baker's and brewer's yeast) and Candida albicans in Crohn's disease. McKenzie H, et al. **Gut** 1990 May; 31(5):536–8

Histamine release from gut mast cells from patients with inflammatory bowel diseases. Nolte H, et al. **Gut** 1990 Jul; 31(7):791–4

T–cellular immune reactions (in macrophage inhibition factor assay) against Mycobacterium paratuberculosis, Mycobacterium kansasii, Mycobacterium tuberculosis, Mycobacterium avium in patients with chronic inflammatory bowel disease. Seldenrijk CA, et al. **Gut** 1990 May;31(5):529–35

Macrophage activity in inflammatory bowel disease [letter; comment] Williams A. **Gut** 1990 Apr;31(4):481 Comment on: Gut 1989 Oct;30(10):1362–70.

Assessment of in vivo activated T cells in patients with Crohn's disease. Raedler A, et al. **Hepatogastroenterology** 1990 Feb;37(1):67–71

Leucocyte common antigen expression on T cells in normal and inflamed human gut. Harvey J, et al. **Immunology** 1989 Sep;68(1):13–7

Serum antibodies to cow's milk folate–binding protein in patients with chronic inflammatory bowel disease. Høier–Madsen M, et al. **Int J Tissue React** 1989; 11(6):327–32

Of mice and men: lessons on Crohn's disease and the spirit of scientific inquiry [comment] Sachar DB. **J Clin Gastroenterol** 1989 Dec;11(6):613–4 Comment on: J Clin Gastroenterol 1989 Dec;11(6):639–44.

A limiting–dilution analysis of activated circulating B cells in Crohn's disease. Boirivant M, et al. **J Clin Immunol** 1990 Mar;10(2):128–34

In vitro cellular cytotoxicity in Crohn's disease and ulcerative colitis: relation with disease activity and treatment, and the effect of recombinant gamma–interferon. Aparicio–Pagés MN, et al. **J Clin Lab Immunol** 1989 Jul; 29(3):119–24

Release of the serum immunosuppressive factor by monocytes in patients with Crohn's disease. Watanabe M, et al. **J Clin Lab Immunol** 1989 Aug;29(4):161–6

Enhanced local production of complement components in the small intestines of patients with Crohn's disease. Ahrenstedt O, et al. **N Engl J Med** 1990 May 10; 322(19):1345–9

The immunology of inflammatory bowel disease. Lowes JR, et al. **Springer Semin Immunopathol** 1990;12(2–3):251–68 (104 ref.)

[Mononuclear cell activation in Crohn's disease. Evaluation using serum assay of neopterin and interleukin–2 soluble receptors] Duclos B, et al. **Gastroenterol Clin Biol** 1990; 14(1):22–7 (Eng. Abstr.) **(Fre)**

[The small intestine as an immune organ] Auer IO. **Fortschr Med** 1990 May 20;108(15):292–6 (0 ref.) (Eng. Abstr.) **(Ger)**

[Molecular genetic detection of polyclonal immune response in autoimmune thyroiditis and inflammatory bowel diseases] Kaulfersch W, et al. **Monatsschr Kinderheilkd** 1989 Sep;137(9):610–5 (Eng. Abstr.) **(Ger)**

[T–lymphocyte subpopulations in the peripheral blood of patients with Crohn disease] Purrmann J, et al. **Z Gastroenterol** 1990 May;28(5):242–6 (Eng. Abstr.) **(Ger)**

[HLA study in 108 Japanese patients with Crohn's disease] Matake H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jul;86(7):1448–54 (Eng. Abstr.) **(Jpn)**

METABOLISM

Comparison of the single dose pharmacokinetics of sulphasalazine in rheumatoid arthritis and inflammatory bowel disease. Astbury C, et al. **Ann Rheum Dis** 1990 Aug; 49(8):587–90

Changing requirements? The small bowel as a metabolic organ. Heatley RV, et al. **Br J Clin Pract Symp Suppl** 1988 Dec;63:89–92 (21 ref.)

Relationship between intestinal permeability to [51Cr]EDTA and inflammatory activity in asymptomatic patients with Crohn's disease. Pironi L, et al. **Dig Dis Sci** 1990 May; 35(5):582–8

Chemiluminescence by polymorphonuclear leucocyte subpopulations in chronic inflammatory bowel disease. Influence of the cell separation procedure. Kelleher D, et al. **Digestion** 1990;45(3):158–65

Immunohistological studies of surface antigen on colonic lymphoid cells in normal and inflamed mucosa. Comparison of follicular and lamina propria lymphocytes. Allison MC, et al. **Gastroenterology** 1990 Aug;99(2):421–30

Increased colonic mucosal angiotensin I and II concentrations in Crohn's colitis. Jaszewski R, et al. **Gastroenterology** 1990 Jun;98(6):1543–8

The jejunal secretion of histamine is increased in active Crohn's disease. Knutson L, et al. **Gastroenterology** 1990 Apr;98(4):849–54

Cellular basis for defective electrolyte transport in inflamed human colon. Sandle GI, et al. **Gastroenterology** 1990 Jul; 99(1):97–105

Role of interleukin 1 in inflammatory bowel disease—enhanced production during active disease. Ligumsky M, et al. **Gut** 1990 Jun;31(6):686–9

Toxic oxygen metabolite production by circulating phagocytic cells in inflammatory bowel disease. Williams JG, et al. **Gut** 1990 Feb;31(2):187–93

Fecal excretion of radiolabeled (51CrCl3) proteins in patients with Crohn's disease. Nordgren S, et al. **Scand J Gastroenterol** 1990 Apr;25(4):345–51

MICROBIOLOGY

Relationship between Mycobacterium avium, M. paratuberculosis and mycobacteria associated with Crohn's disease. Thorel MF. **Ann Rech Vet** 1989;20(4):417–29 (33 ref.)

Chlamydia trachomatis and inflammatory bowel disease—a coincidence? Orda R, et al. **J R Soc Med** 1990 Jan; 83(1):15–7

Sequence and characteristics of IS900, an insertion element identified in a human Crohn's disease isolate of Mycobacterium paratuberculosis. Green EP, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9063–73

[Role of mycobacteria in Crohn's disease] Burnham WR. **Gastroenterol Clin Biol** 1989 Dec;13(12):1033–5 (28 ref.) **(Fre)**

[Intestinal microflora in patients operated on for nonspecific inflammatory diseases of the colon] Korneva TK, et al. **Klin Med (Mosk)** 1990 Jan;68(1):92–5 **(Rus)**

MORTALITY

Mortality in Crohn's disease—a clinical analysis. Andrews HA, et al. **Q J Med** 1989 May;71(265):399–405

PATHOLOGY

Crohn's dysplasia [letter; comment] Balázs M. **Am J Surg Pathol** 1990 May;14(5):497–9 Comment on: Am J Surg Pathol 1989 Mar;13(3):187–96.

Ulcerative colitis and Crohn's disease of the colon. Is there a macroscopic difference? Palnaes Hansen C, et al. **Ann Chir Gynaecol** 1990;79(2):78–81

Pathology of Crohn's disease. Morson BC. **Ann R Coll Surg Engl** 1990 May;72(3):150–1 (17 ref.)

Altered inhibitory innervation of circular smooth muscle in Crohn's colitis. Association with decreased vasoactive intestinal polypeptide levels [published erratum appears in Gastroenterology 1990 Oct;99(4):1199] Koch TR, et al. **Gastroenterology** 1990 Jun;98(6):1437–44

The prolonged course of gastrointestinal tuberculosis. Riedel L, et al. **J Clin Gastroenterol** 1989 Dec;11(6):671–4

Mucin depletion in inflammatory bowel disease. McCormick DA, et al. **J Clin Pathol** 1990 Feb;43(2):143–6

Crohn's disease—a case report. Cho KJ, et al. **J Korean Med Sci** 1987 Jun;2(2):133–6

Relationship between results of laboratory tests and inflammatory activity assessed by colonoscopy in children and adolescents with ulcerative colitis and Crohn's colitis. Holmquist L, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug; 9(2):187–93

Diagnostic significance of epithelioid granulomas in Crohn's disease in children. Multicenter Paediatric Crohn's Disease Study Group. Keller KM, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):27–32

Prognostic significance of epithelioid granulomas found in rectosigmoid biopsies at the initial presentation of pediatric Crohn's disease. Markowitz J, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):182–6

Activated eosinophils in chronic inflammatory bowel disease [letter] Choy MY, et al. **Lancet** 1990 Jul 14;336(8707):126–7

Crohn's–like lymphoid reaction and colorectal carcinoma: a potential histologic prognosticator. Graham DM, et al. **Mod Pathol** 1990 May;3(3):332–5

The diagnosis of gastroduodenal Crohn's disease by endoscopic biopsy. Gad A. **Scand J Gastroenterol Suppl** 1989;167:23–8

Colonoscopy, mucosal biopsy and brush cytology in the assessment of patients with colorectal inflammatory bowel disease. Isbister WH, et al. **Surg Endosc** 1989;3(3):159–63

The significance of fibrotic tight strictures of the ileum in Crohn's disease. Brooks FP, et al. **Trans Am Clin Climatol Assoc** 1988;100:177–84

Endoscopic criteria of Crohn's disease in childhood and adolescence. Burdelski M, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:61–2

[Inflammatory colitis in Tunisian children (apropos of 19 cases)] Ayach R, et al. **Tunis Med** 1989 May;67(5):329–33 (Eng. Abstr.) **(Fre)**

[Deep necroses and consecutive "notches" in Kerckring's folds in Crohn's disease (letter)] Ottenjann R, et al. **Dtsch Med Wochenschr** 1990 May 25;115(21):838 **(Ger)**

[Cutaneous metastatic Crohn disease] Rütten A, et al. **Hautarzt** 1989 Dec;40(12):782–4 (Eng. Abstr.) **(Ger)**

[Sweet syndrome (acute febrile neutrophilic dermatosis) and erythema nodosum in Crohn disease] Schlegel Gómez R, et al. **Hautarzt** 1990 Jul;41(7):398–401 (Eng. Abstr.) **(Ger)**

[Pathology of Crohn disease in children] Otto HF. **Monatsschr Kinderheilkd** 1990 Jul;138(7):362–8 (47 ref.) (Eng. Abstr.) **(Ger)**

[Generalization of Crohn disease] Sprakel B, et al. **Pathologe** 1990 Jul;11(4):244–7 **(Ger)**

[Crohn disease–associated pancreatitis: is there a new extra–intestinal manifestation of the disease?] Tromm A, et al. **Z Gastroenterol** 1990 Apr;28(4):208–10 (Eng. Abstr.) **(Ger)**

[Ileal stenosis caused by chronic granulomatous inflammation secondary to a foreign body simulating Crohn disease] Catucci V, et al. **Minerva Chir** 1990 Mar 31;45(6):419–24 (Eng. Abstr.) **(Ita)**

[An elderly case of Crohn's disease complicated with internal fistula and mass formation with a review of the Japanese literature] **Maeda Y, et al. Nippon Ronen Igakkai Zasshi** 1989 Nov;26(6):638–43 (16 ref.) (Eng. Abstr.) **(Jpn)**

[A case of Crohn's disease associated with an intramural sinus tract of the transverse colon demonstrated pathohistology] **Segawa K, et al. Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):243–7 **(Jpn)**

PHYSIOPATHOLOGY

Growth and development in chronic inflammatory bowel disease. Kirschner BS. **Acta Paediatr Scand Suppl** 1990; 366:98–104; discussion 105 (47 ref.)

Gastrointestinal bleeding in Crohn's disease: the role of acquired factor deficiency. Mamel JJ. **Am J Gastroenterol** 1990 Mar;85(3):321–2

Response to faecal challenge in defunctioned colonic Crohn's disease: prediction of long-term course. Fasoli R, et al. **Br J Surg** 1990 Jun;77(6):616–7

Induction of a novel epidermal growth factor–secreting cell lineage by mucosal ulceration in human gastrointestinal stem cells. Wright NA, et al. **Nature** 1990 Jan 4; 343(6253):82–5

A study of the menopause, smoking, and contraception in women with Crohn's disease. Lichtarowicz A, et al. **Q J Med** 1989 Jul;72(267):623–31

Pulmonary abnormalities in Crohn's disease. Neilly JB, et al. **Respir Med** 1989 Nov;83(6):487–91

Intestinal permeability of 51Cr–labelled ethylenediaminetetraacetic acid in patients with Crohn's disease and their healthy relatives. Ainsworth M, et al. **Scand J Gastroenterol** 1989 Oct;24(8):993–8

Abnormal intestinal permeability in Crohn's disease. A possible pathogenic factor. Olaison G, et al. **Scand J Gastroenterol** 1990 Apr;25(4):321–8 (81 ref.)

[Recent knowledge of the pathophysiology of inflammation in Crohn disease and ulcerative colitis: possible sequelae for future treatment concepts] Allgayer H, et al. **Z Gastroenterol** 1990 Feb;28(2):117–20 (61 ref.) (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Dietary fish oil reduces progression of chronic inflammatory lesions in a rat model of granulomatous colitis. Vilaseca J, et al. **Gut** 1990 May;31(5):539–44

PSYCHOLOGY

Determinants of depression in recent onset pediatric inflammatory bowel disease. Burke P, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):608–10

[Questions at the general hospital. Ulcerative colitis and Crohn disease in the light of a discussion on the body and soul] Küppers B. **Psyche (Stuttg)** 1990 Apr;44(4):343–55 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Regional ileitis in childhood. Rubin S, et al. **Am J Dis Child** 1967 Jul;114(1):106–10

Crohn's disease mimicking primary bladder tumour. Evans RH. **Br J Urol** 1990 Mar;65(3):299–300

Crohn's disease angiographically mimicking vascular malformation or neoplasm. DeNardi F, et al. **Can Assoc Radiol J** 1989 Oct;40(5):279–82

Barium studies and ileoscopy compared in children with suspected Crohn's disease. Lipson A, et al. **Clin Radiol** 1990 Jan;41(1):5–8

Spontaneous free perforation of the ileum in Crohn disease: CT demonstration. Goodman P, et al. **Comput Med Imaging Graph** 1989 Nov–Dec;13(6):473–5

Gastric linitis plastica with metastases to the colon: a mimic of Crohn's disease. Katon RM, et al. **J Clin Gastroenterol** 1989 Oct;11(5):555–60

Bowel obstruction and an apple-core lesion in an 18-year-old man. Peterson IM, et al. **J Fam Pract** 1990 Jul;31(1):85–8

Computed tomography evaluation of the sacroiliac joints in Crohn disease. Radiologic/clinical correlation. Scott WW Jr, et al. **Skeletal Radiol** 1990;19(3):207–10

Radiological examination of the small bowel. Gilchrist AM, et al. **Ulster Med J** 1989 Oct;58(2):124–30

[Case of the month. Crohn's disease and ankylosing spondylitis] Anglade MC, et al. **J Radiol** 1990 Mar; 71(3):180, 184 **(Fre)**

[Significance of computerized tomography in the study of Crohn disease] Angelelli G, et al. **Radiol Med (Torino)** 1990 Jan–Feb;79(1–2):65–9 (Eng. Abstr.) **(Ita)**

[Intestinal subocclusion in children] García Pérez M, et al. **Rev Clin Esp** 1989 Nov;185(7):375–7 **(Spa)**

RADIONUCLIDE IMAGING

99mTc-sucralfate scintigraphy in inflammatory bowel disease. Mortensen PB, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1126–8

[Gammagraphy with 111In-labelled leukocytes in an acute outbreak of inflammatory intestinal disease. Evaluation of the localization, extension and degree of activity] Daumal J, et al. **Med Clin (Barc)** 1989 Sep 30;93(9):325–30 (Eng. Abstr.) **(Spa)**

SURGERY

Indications for surgery in Crohn's disease [letter] Prantera C. **Am J Gastroenterol** 1990 Jul;85(7):900–1

The results of surgery for large bowel Crohn's disease. Ritchie JK. **Ann R Coll Surg Engl** 1990 May;72(3):155–7

Growth after gut resection for Crohn's disease. McLain BI, et al. **Arch Dis Child** 1990 Jul;65(7):760–2

One hundred operations for Crohn's disease. Stokes MA, et al. **Aust N Z J Surg** 1990 Sep;60(9):677–82

Prognosis after surgery for colonic Crohn's disease. Andrews HA, et al. **Br J Surg** 1989 Nov;76(11):1184–90

Surgery for Crohn's disease in childhood: influence of site of disease and operative procedure on outcome. Davies G, et al. **Br J Surg** 1990 Aug;77(8):891–4

Results of external sphincter repair in Crohn's disease. Scott A, et al. **Br J Surg** 1989 Sep;76(9):959–60

Postoperative pain management in patients with inflammatory bowel disease. Pillow KJ, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S63

Diverting ileostomy for colonic Crohn's disease. Part 2: Radiological findings in the colon following diversion. Friedland GW, et al. **Clin Radiol** 1973 Oct;24(4):435–9

Diverting ileostomy for colonic Crohn's disease. Part 1: Significance of ulcers 5 mm in depth or deeper on the preoperative barium enema. Friedland GW, et al. **Clin Radiol** 1973 Oct;24(4):427–34

Stomas in colorectal surgery: options and alternatives. Nasmyth DG. **Dig Dis** 1990;8(4):240–52 (60 ref.)

Postoperative recurrence of Crohn's disease in relation to radicality of operation and sulfasalazine prophylaxis: a multicenter trial. Ewe K, et al. **Digestion** 1989;42(4):224–32

Abdominoperineal resection for severe perianal Crohn's disease. Williams JG, et al. **Dis Colon Rectum** 1990 May; 33(5):402–7

Crohn's disease of the small bowel—operative tactics and techniques. Fazio VW. **Hepatogastroenterology** 1990 Feb; 37(1):56–62 (31 ref.)

Our experience with strictureplasty in the surgical treatment of Crohn's disease. Gaetini A, et al. **Hepatogastroenterology** 1989 Dec;36(6):511–5

Resection margins and recurrent Crohn's disease. McLeod RS. **Hepatogastroenterology** 1990 Feb;37(1):63–6 (25 ref.)

Mason Brown lecture, May 1988. Surgery of inflammatory bowel disease in children, with reference to Crohn's disease. Doig CM. **J R Coll Surg Edinb** 1989 Aug; 34(4):189–96

Conservative surgery for Crohn's disease of the small bowel: the role of strictureplasty. Fazio VW. **Med Clin North Am** 1990 Jan;74(1):169–81 (20 ref.)

The problem of postoperative recurrence of Crohn's disease. Sachar DB. **Med Clin North Am** 1990 Jan;74(1):183–8 (30 ref.)

Trends in the surgical management of inflammatory disease of the colon at the University of Nebraska Medical Center. Blatchford GJ, et al. **Nebr Med J** 1989 Oct;74(10):299–302

Calcium absorption after intestinal resection. The importance of a preserved colon. Hylander E, et al. **Scand J Gastroenterol** 1990 Jul;25(7):705–10

Surgical aspects of inflammatory bowel disease. Alexander-Williams J. **Scand J Gastroenterol Suppl** 1990; 172:39–42

Patterns of postoperative recurrence in Crohn's disease. Sachar DB. **Scand J Gastroenterol Suppl** 1990;172:35–8 (19 ref.)

Stapler stricturoplasty for Crohn's disease. Deutsch AA, et al. **Surg Gynecol Obstet** 1989 Nov;169(5):458–60

Crohn's disease of the appendix. Ruiz V, et al. **Surgery** 1990 Jan;107(1):113–7 (29 ref.)

Segmental colonic resection is an appropriate operation for short skip lesions due to Crohn's disease in the colon. Allan A, et al. **World J Surg** 1989 Sep–Oct;13(5):611–4; discussion 615–6

[Personal experience with the treatment of Crohn's disease] Bedrna J, et al. **Rozhl Chir** 1989 Sep;68(8–9):529–35 (Eng. Abstr.) **(Cze)**

[Chronic nonspecific intestinal inflammation in older patients and its surgical treatment] Soudek K. **Rozhl Chir** 1990 Apr; 69(4):316–21 (Eng. Abstr.) **(Cze)**

[Crohn disease: results of a series of 42 intestinal resections] Leblanc I, et al. **Ann Chir** 1990;44(1):30–3 (Eng. Abstr.) **(Fre)**

[Recurrence after intestinal resection for Crohn's disease] Speranza V. **Chirurgie** 1989;115(4–5):272–5; discussion 275–6 (Eng. Abstr.) **(Fre)**

[Primary wound healing of the sacral cavity following rectum amputation, also a comment on the discussion contribution by G. Jatzko and D. Schlapper, Chirurg (1988) 59: 855] Hüskes KP, et al. **Chirurg** 1989 Dec;60(12):878–80; discussion 880–1 (Eng. Abstr.) **(Ger)**

[Crohn disease and ulcerative colitis from the surgical viewpoint] Paskuda P, et al. **Versicherungsmedizin** 1989 Sep 1;41(5):168–71 (Eng. Abstr.) **(Ger)**

[Emergency surgery in Crohn disease] Eigler FW, et al. **Zentralbl Chir** 1989;114(13):821–8 (33 ref.) (Eng. Abstr.) **(Ger)**

[Reconstructive surgery in patients with nonspecific ulcerative colitis and Crohn disease] Fedorov VD, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):74–7 (Eng. Abstr.) **(Rus)**

[Prevention of postoperative suppurative complications in patients with inflammatory diseases of the large intestine] Bashankaev NA, et al. **Klin Khir** 1990;(2):31–2 (Eng. Abstr.) **(Rus)**

[Left-side hemiproctocolectomy with inversion ileotransverso-anastomosis and lowering of the terminal segment of the ileum to the anal sphincter] Egiazarian VT, et al. **Vestn Khir** 1989 Nov;143(11):127–8 **(Rus)**

[Acute Crohn disease in an infant] Petrov SN. **Vestn Khir** 1989 Apr;142(4):66–7 **(Rus)**

[Minimal surgery in Crohn disease] Hellers G. **Lakartidningen** 1989 Dec 6;86(49):4317–8 **(Swe)**

THERAPY

A century of home parenteral nutrition for Crohn's disease. Galandiuk S, et al. **Am J Surg** 1990 Jun;159(6):540–4; discussion 544–5

Crohn disease and intravenous immunoglobulin G [letter] Knoflach P, et al. **Ann Intern Med** 1990 Mar 1;112(5):385–6

Clinical relapse of Crohn's disease under standardized conservative treatment and after excisional surgery. Dirks E, et al. **Dig Dis Sci** 1989 Dec;34(12):1832–40

Elemental versus polymeric feeding in patients with Crohn's disease—is there really a winner? Klein S. **Gastroenterology** 1990 Sep;99(3):893–4

Mechanisms of nutritional repletion during total parenteral nutrition. Pullicino E, et al. **Gut** 1989 Nov;30 Spec No:69–70

Controlled trial comparing an elemental diet with prednisolone in the treatment of active Crohn's disease. Okada M, et al. **Hepatogastroenterology** 1990 Feb; 37(1):72–80

Peripheral parenteral nutrition is no better than enteral nutrition in acute exacerbation of Crohn's disease: a prospective trial. Wright RA, et al. **J Clin Gastroenterol** 1990 Aug;12(4):396–9

Steroids and bowel rest versus elemental diet in the treatment of patients with Crohn's disease: the effects on protein metabolism and immune function. O'Keefe SJ, et al. **JPEN J Parenter Enteral Nutr** 1989 Sep–Oct;13(5):455–60

New aspects for the therapy of Crohn's disease. Rohr G, et al. **Klin Wochenschr** 1990;68 Suppl 21:64–8 (36 ref.)

Effect of perioperative blood transfusion on recurrence of Crohn's disease [letter] **Lancet** 1989 Oct 28;2(8670):1048

Controlled trial of polymeric versus elemental diet in treatment of active Crohn's disease [see comments] Giaffer MH, et al. **Lancet** 1990 Apr 7;335(8693):816–9 Comment in: Lancet 1990 Jun 16;335(8703):1475–6.

Effect of perioperative blood transfusion on recurrence of Crohn's disease [letter] Williams JG, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1524

Considerations of surveillance, dysplasia, and carcinoma of the colon in the management of ulcerative colitis and Crohn's disease. Korelitz BI. **Med Clin North Am** 1990 Jan; 74(1):189–99 (35 ref.)

Crohn's disease. A comprehensive approach to management. Brinberg DE, et al. **Postgrad Med** 1989 Oct;86(5):257–60, 265 (15 ref.)

[Pyoderma gangrenosum: an unusual complication of total parenteral nutrition in Crohn's disease! (letter)] Delcenserie R, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1089–90 **(Fre)**

[Therapy of Crohn disease] Riemann JF. **Dtsch Med Wochenschr** 1989 Oct 20;114(42):1620–2 **(Ger)**

URINE

[Urinary excretion of phenol in Crohn disease during total parenteral nutrition] Bureš J, et al. **Cas Lek Cesk** 1990 Jan 26;129(4):123–5 (Eng. Abstr.) **(Cze)**

CROMOLYN SODIUM see **DISODIUM CROMOGLYCATE**

CRONOLONE see under **PREGNENEDIONES**

CROP, AVIAN

CYTOLOGY

Pigeon crop-sac as a model system for studying the direct and indirect effects of hormones and growth factors on cell growth and differentiation in vivo. Nicoll CS. **J Exp Zool Suppl** 1990;4:72–7 (25 ref.)

INNERVATION

Effect of electrical field stimulation on muscle strips from chicken crop. Denac M, et al. **Exp Physiol** 1990 Jan; 75(1):69–73

CROSS CIRCULATION see under **PARABIOSIS**

CROSS-CULTURAL COMPARISON

Cross-cultural validation of the Doctor-Patient Scale. Markert RJ. **Acad Med** 1989 Nov;64(11):690

The epidemiology of AIDS. George AM. **Acta Med Austriaca** 1990;17(1):1–5

Postpartum psychosis: a study of indoor cases in a general hospital psychiatric clinic. Agrawal P, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):571–5

Screening for alcoholism among alcohol users in a traditional Arab Muslim society. al-Ansari EA, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):284–8

Patterns of psychiatric care in south Verona and Groningen. A case-register follow-up study. Balestrieri M, et al.

Acta Psychiatr Scand 1989 Nov;80(5):437–44
Prevalence and treatment of mental disorders and epilepsy in Zanzibar. Bondestam S, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):327–31
Premenstrual changes [letter; comment] Chaturvedi SK, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):206 Comment on: Acta Psychiatr Scand 1989 Apr;79(4):400–5.
Risk factors of suicide among schizophrenics. Cheng KK, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):220–4
Sex difference in prevalence of minor psychiatric morbidity: a social epidemiological study in Taiwan. Cheng TA. **Acta Psychiatr Scand** 1989 Oct;80(4):395–407
Dysmorphic penis image perception: the root of Koro vulnerability. A longitudinal study. Chowdhury AN. **Acta Psychiatr Scand** 1989 Nov;80(5):518–20
Stability in aggression and aggression control in a sample of primary school children in China. Ekblad S. **Acta Psychiatr Scand** 1989 Aug;80(2):160–4
The epidemiology of demoralization in a kibbutz. Gilboa S, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):60–4
Homicide in the Nordic countries. Gudjónsson GH, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):49–54 (20 ref.)
Prevalence of reported sleeplessness in northern Norway in relation to sex, age and season. Husby R, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):542–7
Depressive disorder in elderly Chinese people. Kua EH. **Acta Psychiatr Scand** 1990 Apr;81(4):386–8
Mental disability among elderly men in Finland: prevalence, predictors and correlates. Lammi UK, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):459–68
Suicide, homicide and the quality of life in various countries. Lester D. **Acta Psychiatr Scand** 1990 Apr;81(4):332–4
The availability of firearms and the use of firearms for suicide: a study of 20 countries. Lester D. **Acta Psychiatr Scand** 1990 Feb;81(2):146–7
Changes in the methods used for suicide in 16 countries from 1960 to 1980. Lester D. **Acta Psychiatr Scand** 1990 Mar; 81(3):260–1
Does the act of migration provoke psychiatric breakdown? A study of Greek Cypriot immigrants. Mavreas V, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):469–73
Inpatient adolescent psychiatry in a teaching hospital in Nigeria. Oyewumi LK. **Acta Psychiatr Scand** 1989 Dec; 80(6):639–43
Change in culture and language environment in childhood and its effect on adult life. Räsänen E. **Acta Psychiatr Scand** 1989 Sep;80(3):280–6
Psychiatric morbidity among mothers attending well-baby clinic: a cross-cultural comparison. Upadhyaya A, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):148–51
Suicide and the attempted suicide: an international perspective. Diekstra RF. **Acta Psychiatr Scand Suppl** 1989; 354:1–24
Mental health in Dutch adolescents: self-reported competencies and problems for ages 11–18. Verhulst FC, et al. **Acta Psychiatr Scand Suppl** 1989;356:1–48
Educational and career aspirations of secondary school students in Grenada following the American intervention. Chadwick BA, et al. **Adolescence** 1989 Fall;24(95):523–40
Body image satisfaction in Turkish adolescents. Cok F. **Adolescence** 1990 Summer;25(98):409–13
Singapore youth: the impact of social status on perceptions of adolescent problems. Isralowitz RE, et al. **Adolescence** 1990 Summer;25(98):357–62
Problems, plans, and ambitions of German and foreign adolescents. Malhotra MK. **Adolescence** 1989 Fall; 24(95):741–53
Migration and growth: separation-individuation processes in immigrant students in Israel. Mirsky J, et al. **Adolescence** 1989 Fall;24(95):725–40
Patterns of adolescent psychoactive substance use and abuse in Benin City, Nigeria. Pela OA. **Adolescence** 1989 Fall; 24(95):569–74
Fertility, menstrual characteristics, and contraceptive practices among white, black, and Southeast Asian refugee adolescents. Swenson I, et al. **Adolescence** 1989 Fall; 24(95):647–54
Sexual behavior of Colombian high school students. Useche B, et al. **Adolescence** 1990 Summer;25(98):291–304
Postpartum IUD contraception—a review of an international experience. Chi IC, et al. **Adv Contracept** 1989 Sep; 5(3):127–46 (65 ref.)
Comparison of criteria for diagnosing Alzheimer's disease in the United States and Europe. Boller F, et al. **Adv Neurol** 1990;51:1–5
Epidemiology of dementia: cross-cultural comparisons. Mortimer JA. **Adv Neurol** 1990;51:27–33
Aldehyde dehydrogenases and alcoholism. Gallant DM. **Alcoholism** 1990 Apr;14(2):260–1
Familial transmission of alcohol use norms and expectancies and reported alcohol use. Johnson RC, et al. **Alcoholism** 1990 Apr;14(2):216–20
The five cosmic elements as depicted in Indian and Chinese cosmologies. Mahdihassan S. **Am J Chin Med** 1989; 17(3–4):245–52
Countertransference in working with victims of political repression. Comas-Díaz L, et al. **Am J Orthopsychiatry** 1990 Jan;60(1):125–34
The role of culture in the development of paranoid symptomatology. Newhill CE. **Am J Orthopsychiatry** 1990 Apr;60(2):176–85
Hysterical psychosis: the cross-cultural evidence. Langness LL. **Am J Psychiatry** 1967 Aug;124(2):143–52 (37 ref.)
Ego differentiation: Eastern and Western perspectives. Nitis T. **Am J Psychoanal** 1989 Dec;49(4):339–46
Integration of cultural awareness into psychotherapy. Wohl J. **Am J Psychother** 1989 Jul;43(3):343–55 (22 ref.)
Cross-cultural differences in psychiatric disorder [editorial] Robins LN. **Am J Public Health** 1989 Nov;79(11):1479–80
'Anaesthetic training in Brazil: clarification' [letter; comment] Brown TC. **Anaesth Intensive Care** 1989 Nov;17(4):516 Comment on: Anaesth Intensive Care 1989 Feb;17(1):6–8.
Psychology in Japan. Misumi J, et al. **Annu Rev Psychol** 1990; 41:213–41 (160 ref.)
Evaluation of the sensitivity of microfilter paper assays in an anthropological study: results of samples from Cameroon and Tanzania. Aebischer ML, et al. **Anthropol Anz** 1990 Mar;48(1):15–23
Quantitative and qualitative finger dermatoglyphics in the Basque Valley of Urola, Spain. Arrieta MI, et al. **Anthropol Anz** 1990 Mar;48(1):65–84
Some genetic markers among the Bodos of North Bengal, India. Bajpai RR, et al. **Anthropol Anz** 1990 Mar;48(1):25–8
Menarcheal age of Turkish girls in Bremen. Danker-Hopfe H, et al. **Anthropol Anz** 1990 Mar;48(1):1–14
Diversity of topological palmar patterns in Iranian populations. Kamali MS, et al. **Anthropol Anz** 1990 Mar; 48(1):85–97
A note on the frequency distribution of AB0 and rhesus blood groups in four Thai populations of Assam (India) and their position among the Mongoloids of this region. Singh TS, et al. **Anthropol Anz** 1990 Mar;48(1):29–35
Alcoholism—North America and Asia. A comparison of population surveys with the Diagnostic Interview Schedule. Helzer JE, et al. **Arch Gen Psychiatry** 1990 Apr; 47(4):313–9
Sex knowledge, attitudes, and experience of Chinese medical students in Hong Kong. Chan DW. **Arch Sex Behav** 1990 Feb;19(1):73–93
Sexual attitudes in the Chinese. Ng ML, et al. **Arch Sex Behav** 1990 Aug;19(4):373–88 (61 ref.)
Child survival in Greenland and Kenya. Bjerregaard P. **Arctic Med Res** 1988;47 Suppl 1:510–2
Juvenile alcohol use and self-destructive behaviour in northern populations. A cross-cultural comparison. Jilek-Aall L. **Arctic Med Res** 1988;47 Suppl 1:604–10 (34 ref.)
The changing pattern of oral dental diseases. A global perspective. Nikiforuk G. **Arctic Med Res** 1988;47 Suppl 1:545–53 (40 ref.)
Nutrition of native and newcoming population of Chukotka and CHD risk factors. Nikitin Yu, et al. **Arctic Med Res** 1988;47 Suppl 1:472–4
Arterial hypertension and risk factors of CHD in native and newcoming populations of some regions of Siberia and the Far North. Nikitin Yu, et al. **Arctic Med Res** 1988;47 Suppl 1:469–71
Trends in school achievement in Skolt Lappish and northern Finnish children as a function of cultural and psychological factors. Seitamo L. **Arctic Med Res** 1988;47 Suppl 1:97–101
Obesity in Icelandic youngsters and Canadian youngsters of Icelandic descent. A comparison. Way AB, et al. **Arctic Med Res** 1988;47 Suppl 1:462–5
Comparison of nutrition as customary in the Western World, the Orient, and northern populations (Eskimos) in relation to specific disease risks. Weisburger JH. **Arctic Med Res** 1988;47 Suppl 1:110–20 (72 ref.)
The epidemiology of anorexia nervosa in South Australia. Ben-Tovim DI, et al. **Aust N Z J Psychiatry** 1990 Jun; 24(2):182–6
Twin resemblances in cognitive abilities in an Egyptian sample. Abdel-Rahim AR, et al. **Behav Genet** 1990 Jan; 20(1):33–43
Assortative mating for cultural identification as indicated by language use. Nagoshi CT, et al. **Behav Genet** 1990 Jan; 20(1):23–31
A cross-cultural cross validation of the Dental Fear Survey in South East Asia. Milgrom P, et al. **Behav Res Ther** 1990; 28(3):227–33
Plasma procurement world-wide. Leikola J. **Beitr Infusionther** 1989;24:69–73 (8 ref.)
Dexamethasone suppression test in Brazil. Kerr F, et al. **Biol Psychiatry** 1990 Mar 15;27(6):678–80
The psychiatric literature: some perspectives [editorial] Wortis J. **Biol Psychiatry** 1990 Jul 1;28(1):1–2
Dutch policy on the management of drug-related problems: an Anglo-Dutch debate. **Br J Addict** 1989 Sep;84(9):989–97
Severity of opiate dependence in an Australian sample: further validation of the SODQ. Burgess PM, et al. **Br J Addict** 1989 Dec;84(12):1451–9
The drinking habits of Sikh, Hindu, Muslim and white men in the West Midlands: a community survey. Cochrane R, et al. **Br J Addict** 1990 Jun;85(6):759–69
Comparison of 7-day retrospective and prospective alcohol consumption diaries in a female population in Perth, Western Australia—methodological issues. Corti B, et al. **Br J Addict** 1990 Mar;85(3):379–88
Treatment for alcoholics in German speaking countries. Feuerlein W. **Br J Addict** 1990 Mar;85(3):353–6
The structure of problem behaviours among Irish adolescents. Grube JW, et al. **Br J Addict** 1990 May; 85(5):667–75
Initiation, continuation or discontinuation of cannabis use in the general population. Hammer T, et al. **Br J Addict** 1990 Jul;85(7):899–909
Cross-cultural and cross-temporal explanations of drinking behavior: contributions from epidemiology, life-span developmental psychology and the sociology of aging. Hartka E, et al. **Br J Addict** 1989 Dec;84(12):1409–17 (47 ref.)
The experiencing of positive consequences of drinking in four Scandinavian countries. Hauge R, et al. **Br J Addict** 1990 May;85(5):645–53
Alcohol use and its control in Finnish and Soviet marriages. Holmila M, et al. **Br J Addict** 1990 Apr;85(4):509–20
Drinking habits of elderly Chinese. Kua EH. **Br J Addict** 1990 Apr;85(4):571–3
Could Britain inherit the American nightmare? MacGregor S. **Br J Addict** 1990 Jul;85(7):863–72
Tobacco use in a cohort of children in Sri Lanka. Mendis S. **Br J Addict** 1990 Mar;85(3):397–8
The demand for tobacco products in Finland. Pekurinen M. **Br J Addict** 1989 Oct;84(10):1183–92
Trends in alcohol consumption in Spain, Portugal, France and Italy from the 1950s until the 1980s. Pyörälä E. **Br J Addict** 1990 Apr;85(4):469–77 (20 ref.)
An economist in 'alcohol policy country'. van Iwaarden MJ. **Br J Addict** 1989 Oct;84(10):1205–16
Conversation with Ignacy Wald [interview] Wald I. **Br J Addict** 1989 Sep;84(9):961–5
Effects of cigarette advertising: reply to Boddewyn [letter; comment] Warner K. **Br J Addict** 1990 May;85(5):687–8 Comment on: Br J Addict 1989 Nov;84(11):1255–61; discussion 1263–5.
Pupils' perceptions of school and teachers. I—Identifying the underlying dimensions. Entwistle N, et al. **Br J Educ Psychol** 1989 Nov;59 (Pt 3):326–39
Pupils' perceptions of school and teachers. II—Relationships with motivation and approaches to learning. Entwistle N, et al. **Br J Educ Psychol** 1989 Nov;59 (Pt 3):340–50
Teacher approval and disapproval in Hongkong secondary school classrooms. Winter S. **Br J Educ Psychol** 1990 Feb; 60 (Pt 1):88–92
Attitudes towards mild and severe mental handicap in Israel. Weller L, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):273–80
Erotomania in a Saudi woman. el-Assra A. **Br J Psychiatry** 1989 Oct;155:553–5
Asian patients and the HAD scale [letter; comment] Chaturvedi SK. **Br J Psychiatry** 1990 Jan;156:133 Comment on: Br J Psychiatry 1989 Oct;155:545–7.
A Chinese classic phenylketonuria manifested as autism. Chen CH, et al. **Br J Psychiatry** 1989 Aug;155:251–3
Better to be depressed in Australia... [letter] Lee AS, et al. **Br J Psychiatry** 1989 Jul;155:123–4
Anorexia nervosa in Hong Kong. Why not more in Chinese? [see comments] Lee S, et al. **Br J Psychiatry** 1989 May; 154:683–8 Comment in: Br J Psychiatry 1989 Oct;155:569.
The 'new cross-cultural psychiatry'. A case of the baby and the bathwater. Leff J. **Br J Psychiatry** 1990 Mar;156:305–7
Anorexia nervosa and Chinese food [letter; comment] Li SW. **Br J Psychiatry** 1989 Oct;155:569 Comment on: Br J Psychiatry 1989 May;154:683–8.
From categories to contexts: a decade of the 'new cross-cultural psychiatry'. Littlewood R. **Br J Psychiatry** 1990 Mar;156:308–27 (188 ref.)
Schneider's first-rank symptoms of schizophrenia: prevalence and diagnostic use. A study from Pakistan. Malik SB, et al. **Br J Psychiatry** 1990 Jan;156:109–11
The evaluation of psychiatric illness in Asian patients by the Hospital Anxiety Depression Scale [see comments] Nayani S. **Br J Psychiatry** 1989 Oct;155:545–7 Comment in: Br J Psychiatry 1990 Jan;156:133.
Epidemiology of mental disorders in young adults of a newly urbanized area in Khartoum, Sudan. Rahim SI, et al. **Br J Psychiatry** 1989 Jul;155:44–7
... or not? [letter] Ramana R, et al. **Br J Psychiatry** 1989 Jul;155:124–5
Psychiatric despotism? [letter] Samuel G. **Br J Psychiatry** 1989 Oct;155:568–9
Suicides among immigrants from the Indian subcontinent. Soni Raleigh V, et al. **Br J Psychiatry** 1990 Jan;156:46–50
Suicide and antidepressant overdosage in general practice. Beaumont G. **Br J Psychiatry Suppl** 1989 Oct;(6):27–31 (20 ref.)
International diagnostic systems and Latin-American contributions and issues. Mezzich JE. **Br J Psychiatry Suppl** 1989 May;(4):84–90 (50 ref.)
A European study of views on the use of monoamine oxidase inhibitors. Paykel ES, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):9–17
Comparative distributions of DSM-III diagnoses in North and South American clinical samples. Sogi C, et al. **Br J Psychiatry Suppl** 1989 May;(4):91–5
The child-rearing values of Asian and British parents and young people: an inter-ethnic and inter-generational comparison in the evaluation of Kohn's 13 qualities. Stopes-Roe M, et al. **Br J Soc Psychol** 1990 Jun;29 (Pt 2):149–60
Syntactic comprehension in Japanese aphasics: effects of category and thematic role order. Hagiwara H, et al. **Brain Lang** 1990 Jan;38(1):159–70
Cultural factors and symptoms of schizophrenia, a comparative study in Malta and Poland. Masłowski J. **Bull Inst Marit Trop Med Gdynia** 1988;39(3–4):253–64
Evaluation of leprosy epidemiology in 12 countries of the

Americas, 1980–1983. Lombardi C. **Bull Pan Am Health Organ** 1989;23(3):284–94
AIDS surveillance—worldwide. **Can Dis Wkly Rep** 1989 Dec 30;15(52):261 (Eng, Fre)
Bouffée délirante in Jamaican adolescent siblings. Roberts N. **Can J Psychiatry** 1990 Apr;35(3):251–3
Lung cancer mortality according to birthplace. Coy P, et al. **Can Med Assoc J** 1968 Sep 14;99(10):476–83
An incidence survey of battered children in two elementary schools of Seoul. Kim K, et al. **Child Abuse Negl** 1990; 14(2):273–6
Incest: a laughing matter. Mulhern S. **Child Abuse Negl** 1990; 14(2):265–71
Cross-cultural differences in developmental rates: a comparison between British and Brazilian children. Victora MD, et al. **Child Care Health Dev** 1990 May–Jun; 16(3):151–64
Pregnancy and antenatal care: the attitudes and experiences of Asian women. Woollett A, et al. **Child Care Health Dev** 1990 Jan–Feb;16(1):63–78
Minority children. **Child Dev** 1990 Apr;61(2):263–589
Ethnicity and psychosocial factors in alcohol and tobacco use in adolescence. Bettes BA, et al. **Child Dev** 1990 Apr; 61(2):557–65
Developmental outcome of minority infants: a process-oriented look into our beginnings. Garcia Coll CT. **Child Dev** 1990 Apr;61(2):270–89 (135 ref.)
Maternal socialization of children's eating habits: strategies used by obese Mexican-American mothers. Olvera-Ezzell N, et al. **Child Dev** 1990 Apr;61(2):395–400
Patterns of social expectations among black and Mexican-American children. Rotheram-Borus MJ, et al. **Child Dev** 1990 Apr;61(2):542–56
Toward cultural/ecological perspectives on schooling and achievement in African- and Asian-American children. Slaughter-Defoe DT, et al. **Child Dev** 1990 Apr; 61(2):363–83 (140 ref.)
Beliefs and achievement: a study of black, white, and Hispanic children. Stevenson HW, et al. **Child Dev** 1990 Apr;61(2):508–23
Psychosocial attributes and life experiences of disadvantaged minority mothers: age and ethnic variations. Wasserman GA, et al. **Child Dev** 1990 Apr;61(2):566–80
The intersection of disability and child abuse in England and the United States. Cohen S, et al. **Child Welfare** 1990 May–Jun;69(3):253–62
"Abandoned" parents. Loss of traditional family support systems. A challenge for health professionals. Porter B. **Clin Pediatr (Phila)** 1990 Jul;29(7):401–4
Measuring the treatment environment of a psychiatric ward and a community mental health center after the Italian reform. Burti L, et al. **Community Ment Health J** 1990 Apr;26(2):193–204
People against the mentally ill: community opposition to residential treatment facilities. Cheung FM. **Community Ment Health J** 1990 Apr;26(2):205–12
Schizophrenia in ICD-10: a field trial of suggested diagnostic guidelines. al-Ansari EA, et al. **Compr Psychiatry** 1989 Sep–Oct;30(5):416–9
Borderline personality in Britain: a preliminary study. Bateman AW. **Compr Psychiatry** 1989 Sep–Oct; 30(5):385–90
A cross-cultural comparison of ideal and undesirable qualities of crisis line workers. Tekavcic-Grad O, et al. **Crisis** 1989 Oct;10(2):152–63
Traversing boundaries: European and North American perspectives on medical and psychiatric anthropology. **Cult Med Psychiatry** 1990 Jun;14(2):141–310
Being affected by the other. Bibeau G. **Cult Med Psychiatry** 1990 Jun;14(2):299–310
Paradise regained: "miraculous healing" in an Israeli psychiatric clinic. Bilu Y, et al. **Cult Med Psychiatry** 1990 Mar;14(1):105–27
Facts and meaning in psychiatry. An anthropological approach to the lifeworld of schizophrenics. Corin EE. **Cult Med Psychiatry** 1990 Jun;14(2):153–88
Traversing boundaries: European and North American perspectives on medical and psychiatric anthropology. An introduction. Crapanzano V. **Cult Med Psychiatry** 1990 Jun;14(2):145–52
American oncology and the discourse on hope. Delvecchio Good MJ, et al. **Cult Med Psychiatry** 1990 Mar;14(1):59–79
The therapist and the source of healing among the Yaka of Zaire. Devisch R. **Cult Med Psychiatry** 1990 Jun; 14(2):213–36
A plea for a broader ethnomedicine. Fabrega H Jr. **Cult Med Psychiatry** 1990 Mar;14(1):129–32
About participation. Favret-Saada J. **Cult Med Psychiatry** 1990 Jun;14(2):189–99
Embodying illness, embodying cancer. Gordon DR. **Cult Med Psychiatry** 1990 Jun;14(2):275–97
On being ethnic: the politics of identity breaking and making in Canada, or, nevra on Sunday. Lock M. **Cult Med Psychiatry** 1990 Jun;14(2):237–54
The angry liver, the anxious heart and the melancholy spleen. The phenomenology of perceptions in Chinese culture. Ots T. **Cult Med Psychiatry** 1990 Mar;14(1):21–58
Boundaries inside the body: women's sufferings in southern peasant Italy. Pandolfi M. **Cult Med Psychiatry** 1990 Jun; 14(2):255–73
Discourse, knowledge and experience of cancer: a life story. Saillant F. **Cult Med Psychiatry** 1990 Mar;14(1):81–104
The Hall of Dragon Metamorphoses: a unique, indigenous asylum for chronic mental patients in Taiwan. Wen JK. **Cult Med Psychiatry** 1990 Mar;14(1):1–19
How do societies and "corporate" groups delimit themselves? A puzzle common to social and medical anthropology. Zemplíni A. **Cult Med Psychiatry** 1990 Jun;14(2):201–11
Multilevel models of fertility determination in four Southeast Asian countries: 1970 and 1980. Hirschman C, et al. **Demography** 1990 Aug;27(3):369–96
The origins of the Chinese fertility decline. Lavely W, et al. **Demography** 1990 Aug;27(3):357–67
Age estimation from the number of teeth erupted in young children: an aid to demographic surveys. Townsend N, et al. **Demography** 1990 Feb;27(1):165–74
The detoxification of high dose heroin addicts in Pakistan. Gossop M. **Drug Alcohol Depend** 1989 Oct;24(2):143–50
Socio-cultural factors affecting drug addiction treatment in Italy (fear of treatment). Maremmani I, et al. **Drug Alcohol Depend** 1990 Apr;25(2):235–9
Research on drug use: a review of problems, needs and future perspectives. Reuband KH. **Drug Alcohol Depend** 1990 Apr; 25(2):149–52 (15 ref.)
Induced abortion: a world review, 1990 [published erratum appears in Fam Plann Perspect 1990 May–Jun;22(3):114] Henshaw SK. **Fam Plann Perspect** 1990 Mar–Apr; 22(2):76–89
Patterns of psychiatric consultations in Kuwait general hospitals. al-Ansari EA, et al. **Gen Hosp Psychiatry** 1990 Jul;12(4):257–63
Staff attitudes toward violence in the general hospital. A comparison between Amsterdam and Tel Aviv. van Londen L, et al. **Gen Hosp Psychiatry** 1990 Jul;12(4):252–6
Kuwait drug addiction scene: a changing pattern? Bilal AM. **Int J Addict** 1989 Dec;24(12):1137–44
Alcohol use and psychological distress: a comparison of Americans and West Germans. Cockerham WC, et al. **Int J Addict** 1989 Oct;24(10):951–61
A cross-cultural comparison of attitudes toward alcohol among French and United States college students. McAnulty RD, et al. **Int J Addict** 1989 Dec;24(12):1229–36
WHO Collaborative Study on Alcohol Education and Young People: outcomes of a four-country pilot study. Perry CL, et al. **Int J Addict** 1989 Dec;24(12):1145–71
Children's attitudes toward elderly individuals: a comparison of two ethnic groups. Zandi T, et al. **Int J Aging Hum Dev** 1990;30(3):161–74
Initiating breastfeeding: a world survey of the timing of postpartum breastfeeding. Morse JM, et al. **Int J Nurs Stud** 1990;27(3):303–13 (152 ref.)
Coping behaviour of disabled persons and their families: cross-cultural perspectives from Norway and Botswana. Ingstad B. **Int J Rehabil Res** 1988;11(4):351–9
Behavioural perspectives on a Sri Lankan healing ritual. Bartlett A. **Int J Soc Psychiatry** 1989 Autumn;35(3):245–51 (36 ref.)
Social class, psychological wellbeing and minority status in Northern Ireland. Cairns E. **Int J Soc Psychiatry** 1989 Autumn;35(3):231–6
Cultural variations of premenstrual experience. Chandra PS, et al. **Int J Soc Psychiatry** 1989 Winter;35(4):343–9
Ethnicity and sex as correlates of depression symptoms in a Canadian university sample. Dion KL, et al. **Int J Soc Psychiatry** 1990 Spring;36(1):30–41
Social aspects of epilepsy in Kuwait. el-Hilu SM. **Int J Soc Psychiatry** 1990 Spring;36(1):68–73
Characteristics of a rural area community mental health programme County Caroni. Maharaj K, et al. **Int J Soc Psychiatry** 1989 Autumn;35(3):280–4
Parental communication and psychological distress in children of Holocaust survivors: a comparison between the U.S. and Israel. Okner DF, et al. **Int J Soc Psychiatry** 1989 Autumn;35(3):265–73
Use of the CPI structural scales in Taiwan college graduates. Ying YW. **Int J Soc Psychiatry** 1990 Spring;36(1):49–57
Clinical psychology: identity and direction. Medini G. **Isr J Psychiatry Relat Sci** 1988;25(3–4):157–66
Psychotherapy in Israel: identity and direction. Rosenberg EH. **Isr J Psychiatry Relat Sci** 1988;25(3–4):150–6
Principal components analyses of behavior problems in Jamaican clinic-referred children: teacher reports for ages 6–17. Lambert MC, et al. **J Abnorm Child Psychol** 1989 Oct;17(5):553–62
Parental communication deviance and schizophrenia: a cross-cultural comparison of Mexican- and Anglo-Americans. Doane JA, et al. **J Abnorm Psychol** 1989 Nov;98(4):487–90
Targets of communication during adolescence. Hortaçsu N. **J Adolesc** 1989 Sep;12(3):253–63
Disordered eating in South-western Pueblo Indians and Hispanics. Snow JT, et al. **J Adolesc** 1989 Sep;12(3):329–36
Epidemiological comparisons of Puerto Rican and U.S. mainland children: parent, teacher, and self-reports. Achenbach TM, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jan;29(1):84–93
The influence of culture on pain in Anglo and Hispanic children with cancer. Pfefferbaum B, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):642–7
A follow-up study of infantile autism in Hong Kong. Chung SY, et al. **J Autism Dev Disord** 1990 Jun;20(2):221–32
Type A behavior pattern in Japanese employees: cross-cultural comparison of major factors in Jenkins Activity Survey (JAS) responses. Hayano J, et al. **J Behav Med** 1989 Jun;12(3):219–31
Measurement of the Type A behavior pattern in adolescents and young adults: cross-cultural development of AATAB. Wrzesniewski K, et al. **J Behav Med** 1990 Apr;13(2):111–35
Seasonality of births among Bedouin Arabs residing in the Negev Desert of Israel. Guptill K, et al. **J Biosoc Sci** 1990 Apr;22(2):213–23
Problems and competencies reported by parents of Australian and American children. Achenbach TM, et al. **J Child Psychol Psychiatry** 1990 Jan;31(2):265–86
The children's behaviour questionnaire for completion by parents and teachers in a Chinese sample. Ekblad S. **J Child Psychol Psychiatry** 1990 Jul;31(5):775–91
Screening measures for detecting psychiatric disorders in Japanese secondary school children. Morita H, et al. **J Child Psychol Psychiatry** 1990 May;31(4):603–17
Normative data on the Boston Diagnostic Aphasia Examination in a Spanish-speaking population. Rosselli M, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):313–22
ICD-9-CM classification coding in psychiatry. Dingemans PM. **J Clin Psychol** 1990 Mar;46(2):161–8
Validity of the Chinese version of the General Health Questionnaire. Shek DT. **J Clin Psychol** 1989 Nov; 45(6):890–7
Cross-cultural patterns in the training of children: an evolutionary perspective. Low BS. **J Comp Psychol** 1989 Dec;103(4):311–9
Some variables in the blue (red) phenomenon. Wiegersma S, et al. **J Gen Psychol** 1989 Jul;116(3):259–69
Relations between young Mexican American children and play paradigms. Nevius J. **J Genet Psychol** 1989 Dec; 150(4):441–3
Perceptions of parental treatment styles and psychological well-being in Chinese adolescents. Shek DT. **J Genet Psychol** 1989 Dec;150(4):403–15
The developmental progression of children's knowledge constructions for heating and cooling. Slone M, et al. **J Genet Psychol** 1990 Jun;151(2):255–66
Development of behavioral distress in reaction to acute pain in two cultures. van Aken MA, et al. **J Pediatr Psychol** 1989 Sep;14(3):421–32
MMPI characteristics of professional prostitutes: a cross-cultural replication. De Schampheleire D. **J Pers Assess** 1990 Spring;54(1–2):343–50
Perceptions of social responsibilities in India and in the United States: moral imperatives or personal decisions? Miller JG, et al. **J Pers Soc Psychol** 1990 Jan;58(1):33–47
Exploring implicit personality theories with indigenous or imported constructs: the Chinese case. Yang KS, et al. **J Pers Soc Psychol** 1990 Jun;58(6):1087–95
Depressed mood and major depressive disorder in two ethnic groups. Golding JM, et al. **J Psychiatr Res** 1990;24(1):65–82
Comparative self-concept variances of school children in two English-speaking West African nations. Alawiye O, et al. **J Psychol** 1990 Mar;124(2):169–76
The relationship of temperament and adjustment in Japanese schools. Ballantine JH, et al. **J Psychol** 1990 May; 124(3):299–309
Math anxiety, mother's education, and the mathematics performance of adolescent boys and girls: evidence from the United States and Thailand. Engelhard G Jr. **J Psychol** 1990 May;124(3):289–98
Sex differences in the psychological well-being of Chinese adolescents. Shek DT. **J Psychol** 1989 Jul;123(4):405–12
Assertiveness and social anxiety in Chinese-American women. Sue D, et al. **J Psychol** 1990 Mar;124(2):155–63
Adolescent concerns about weight and eating; a social-development perspective. Wardle J, et al. **J Psychosom Res** 1990;34(4):377–91
Crosscultural reliability of the physical ability dimension of the health assessment questionnaire. Ferraz MB, et al. **J Rheumatol** 1990 Jun;17(6):813–7
Changes in the premarital and marital sexual life of Czechoslovak women born between 1911 and 1970. Raboch J, et al. **J Sex Marital Ther** 1989 Fall;15(3):207–14
Comparison between the development of Malaysian and Denver children. Chen ST. **J Singapore Paediatr Soc** 1989; 31(3–4):178–85
Academic achievement of children from monogamous and polygynous families. Cherian VI. **J Soc Psychol** 1990 Feb; 130(1):117–9
Reward allocation among Chinese high school students in Hong Kong. Chiu CY. **J Soc Psychol** 1989 Dec; 129(6):751–7
The relationship between social class and neuroticism and extraversion among English 16-year-olds. Francis LJ, et al. **J Soc Psychol** 1989 Oct;129(5):695–7
Self-concept and academic performance in Jamaican teenagers. Garzarelli P, et al. **J Soc Psychol** 1989 Oct; 129(5):725–6
Conceptions of the opposite-sex ideal by international students in The Netherlands. Gibbons JL, et al. **J Soc Psychol** 1989 Dec;129(6):859–61
Self-, ingroup, and outgroup achievement attributions of German and Turkish pupils. Hewstone M, et al. **J Soc Psychol** 1989 Aug;129(4):459–70
Stress among kibbutz parents using familial and communal child sleeping arrangements. Israelowitz RE. **J Soc Psychol** 1990 Jun;130(3):403–5
Sex differences in east African dreams of aggression. Munroe RL, et al. **J Soc Psychol** 1989 Oct;129(5):727–8
Causal attributions for unemployment in Barbados. Payne

M, et al. **J Soc Psychol** 1990 Apr;130(2):169–81
Stability of the sociodemographic variance of the Type A behavior pattern in Finnish adolescents and young adults. Räikkönen K. **J Soc Psychol** 1990 Jun;130(3):365–73
Self-esteem and the evaluation of ethnic identity among Turkish and Dutch adolescents in The Netherlands. Verkuyten M. **J Soc Psychol** 1990 Jun;130(3):285–97
Personality concomitants of loneliness among black and white male Zimbabwean adolescents. Wilson D, et al. **J Soc Psychol** 1989 Aug;129(4):577–8
Interracial friendship in a Zimbabwean primary school. Wilson D, et al. **J Soc Psychol** 1990 Feb;130(1):111–3
Loneliness and general psychological distress among Zimbabwean students. Wilson D, et al. **J Soc Psychol** 1990 Apr;130(2):273
Birth order and intellectual development among Zimbabwean children. Wilson D, et al. **J Soc Psychol** 1990 Jun; 130(3):409–11
Erotophobia and contraception among Zimbabwean students. Wilson D, et al. **J Soc Psychol** 1989 Oct;129(5):721–3
Type A behavior and self-reported stress among Zimbabwean teachers. Wilson D, et al. **J Soc Psychol** 1990 Feb;130(1):115–6
Concepts of alcoholism among whites, blacks and Hispanics in the United States. Caetano R. **J Stud Alcohol** 1989 Nov; 50(6):580–2
Schizophrenic neologism versus aphasic neologism: characteristics in writings of Japanese schizophrenic patients. Moriyama N, et al. **Jpn J Psychiatry Neurol** 1989 Jun;43(2):137–42
A study of depression in two cultures: a transcultural study with Japanese and Australian clinically depressed patients. Radford M, et al. **Jpn J Psychiatry Neurol** 1989 Jun; 43(2):119–32
The psychology and actions of rapists interned in the Kawagoe Juvenile Prison compared with rapists in Tokyo. Murata Y, et al. **Med Law** 1989;8(6):655–70
Contexts of achievement: a study of American, Chinese, and Japanese children. Stevenson HW, et al.
Monogr Soc Res Child Dev 1990;55(1–2):1–123
Separate culture [letter] Osthoff G. **Nature** 1990 Jan 11; 343(6254):110
Dementia—quality health care and cost effectiveness of evaluation. Aita JF. **Nebr Med J** 1990 Apr;75(4):64–5; discussion 65–6
Health care policy and abortion: a comparison. Cohen SS. **Nurs Outlook** 1990 Jan–Feb;38(1):20–5
Reliability issues of the family environment scale for cross-cultural research. Munet-Vilaró F, et al.
Nurs Res 1990 Jul–Aug;39(4):244–7
Use of Q-sort methodology in cross-cultural nutrition and health research. Simpson SH. **Nurs Res** 1989 Sep–Oct; 38(5):289–90
Acute abdominal pain and appendicitis in north east Thailand. Chatbanchai W, et al. **Paediatr Perinat Epidemiol** 1989 Oct; 3(4):448–59
Reliability of the Prueba de Coordinación Corporal para Niños (body coordination test for children). Camacho-Araya T, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):832–4
Association of scores on McCarthy Scales with field dependence/independence for seven-year-old Spanish children. Forns-Santacana M, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1291–6
Verbal aggression among Japanese and American students. Harman CM, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1130
Reliability of the Jenkins Activity Survey in assessing Type A behavior pattern in middle-aged Nigerians. Igbokwe NU. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1330
Pubertal timing and menstrual attitudes in adolescent Nigerians. Igbokwe NU. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1114
Tryptophan intake and national character. Lester D. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):930
Media violence and suicide and homicide rates. Lester D. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):894
Effects of parental presence/absence on size of children's human figure drawings. Payne MA. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):843–9
Self-concepts of Costa Rican elementary school children. Richardson MJ, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1331–4
Comparison of Nigerian high school male athletes and nonathletes on self-concept. Salokun SO.
Percept Mot Skills 1990 Jun;70(3 Pt 1):865–6
The martial arts and mental health: the challenge of managing energy. Seitz FC, et al. **Percept Mot Skills** 1990 Apr; 70(2):459–64 (8 ref.)
Influences of TV games on physical and psychological development of Japanese kindergarten children. Shimai S, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):771–6
Coping with stress: dream interpretation in the Mapuche family. Degarrod LN. **Psychiatr J Univ Ott** 1990 Jun; 15(2):111–6
Dreams and imaginative processes in American and Balinese artists. Gaines R, et al. **Psychiatr J Univ Ott** 1990 Jun; 15(2):107–10
U.S.A., 13 years later. Pinheiro MV. **Psychiatry** 1989 Nov; 52(4):469–74
Delayed onset PTSD among Israeli veterans of the 1982 Lebanon War. Solomon Z, et al. **Psychiatry** 1989 Nov; 52(4):428–36
Using the CES-D scale to screen for depression and anxiety: effects of language and ethnic status. Roberts RE, et al. **Psychiatry Res** 1990 Jan;31(1):69–83
Successful aging: a theme for international psychology. Butt DS, et al. **Psychol Aging** 1987 Mar;2(1):87–94
Cross-cultural studies of dementia: use of a Chinese version of the Blessed-Roth Information-Memory-Concentration test in a Shanghai dementia survey. Jin H, et al.
Psychol Aging 1989 Dec;4(4):471–9
Phenomenology of life satisfaction among elderly men: quantitative and qualitative views. Thomas LE, et al.
Psychol Aging 1989 Sep;4(3):284–9
Symptomatology of minor psychiatric morbidity: a crosscultural comparison. Cheng TA. **Psychol Med** 1989 Aug;19(3):697–708
How does gender influence age at first hospitalization for schizophrenia? A transnational case register study. Häfner H, et al. **Psychol Med** 1989 Nov;19(4):903–18
Severe mental disorder in Afro-Caribbean patients: some social, demographic and service factors. Harrison G, et al. **Psychol Med** 1989 Aug;19(3):683–96
Eating disorders: lessons from a cross-cultural study. King MB, et al. **Psychol Med** 1989 Nov;19(4):955–8
Whakama: culturally determined behaviour in the New Zealand Maori. Sachdev PS. **Psychol Med** 1990 May; 20(2):433–44
Cross-national generalizability of dimensions of perceived parental rearing practices: Hungary and The Netherlands; a correction and repetition with healthy adolescents. Arrindell WA, et al. **Psychol Rep** 1989 Dec;65(3 Pt 2):1079–88
Observations of Japanese men and children in public places: a comparative study. Bailey WT, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):731–4
Self-consciousness Scale: a study of Spanish housewives. Baños RM, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):771–4
Birth order and academic achievement of children in Transkei. Cherian VI. **Psychol Rep** 1990 Feb;66(1):19–24
Biological explanation, psychological explanation, and tolerance of homosexuals: a cross-national analysis of beliefs and attitudes. Ernulf KE, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):1003–10
Anxiety among children in Israel. Ginter EJ, et al.
Psychol Rep 1989 Dec;65(3 Pt 1):803–9
Family style and suicide: a cross-cultural study. Lester D. **Psychol Rep** 1989 Oct;65(2):514
Suicide rates in immigrant groups and their countries of origin: an examination of data from early in the 20th century. Lester D. **Psychol Rep** 1989 Dec;65(3 Pt 1):818
Immigration and rates of personal violence (suicide and homicide). Lester D. **Psychol Rep** 1989 Dec;65(3 Pt 2):1298
Histrionic disorder among Iranian high school and college students. Makaremi A. **Psychol Rep** 1990 Jun;66(3 Pt 1):835–8
Retest reliability of the Wechsler Preschool and Primary Scale of Intelligence restandardized in Iran. Razavieh A, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):865–6
Correlations among GPA and scores on the Spanish version of WISC-R and the Woodcock-Johnson Achievement subtests for 10- to 12-year-old Puerto Rican children. Rodriguez VL, et al. **Psychol Rep** 1990 Apr;66(2):563–6
Race, brain size, and intelligence: a reply to Cernovsky [comment] Rushton JP. **Psychol Rep** 1990 Apr;66(2):659–66
Comment on: Psychol Rep 1990 Feb;66(1):337–8.
The factor structure of the Menstrual Distress Questionnaire—Dutch. Van Der Ploeg HM.
Psychol Rep 1990 Jun;66(3 Pt 1):707–14
Course of psychosis in Algeria and in France: about 342 cases observed from 1975 to 1985. Robert P, et al.
Psychopathology 1989;22(6):301–8
'Delusion of world destruction' (Wetzel). Comparative study between Japan and West Germany. Tateyama M.
Psychopathology 1989;22(6):289–94
Ethnographic assessment of pain coping perceptions. Moore R. **Psychosom Med** 1990 Mar–Apr;52(2):171–81
Alexithymia: reliability and validity of the Spanish version of the Toronto Alexithymia Scale. Rodrigo G, et al.
Psychother Psychosom 1989;51(3):162–8
Cultural factors in the choice of drugs. Heath DB.
Recent Dev Alcohol 1990;8:245–54 (19 ref.)
Risk perceptions of Hong Kongese vs. Americans. Keown CF. **Risk Anal** 1989 Sep;9(3):401–5
Report of the U.S. Delegation to assess recent changes in Soviet psychiatry. **Schizophr Bull** 1989;15(4 Suppl):1–219 **(Eng, Rus)**
The American concept of schizophrenia. Andreasen NC.
Schizophr Bull 1989;15(4):519–31 (70 ref.)
U.S. and Soviet perspectives on the diagnosis of schizophrenia and associated dangerousness. Keith SJ, et al. **Schizophr Bull** 1989;15(4):515–7
On social dangerousness of mental patients. Shostakovich BV. **Schizophr Bull** 1989;15(4):555–8
Sluggish schizophrenia in the modern classification of mental illness. Smulevich AB. **Schizophr Bull** 1989;15(4):533–9 (60 ref.)
Young adult suicide and exposure to television. Centerwall BS. **Soc Psychiatry Psychiatr Epidemiol** 1990 May; 25(3):149–53
Initiative—a neglected psychosocial dimension. Hoehne KA.
Soc Psychiatry Psychiatr Epidemiol 1990 Mar;25(2):101–7
The sex distribution of suicides by age in nations of the world. Lester D. **Soc Psychiatry Psychiatr Epidemiol** 1990 Mar; 25(2):87–8
Somatic sensations and psychological distress among students in Britain and Pakistan. Mumford DB.
Soc Psychiatry Psychiatr Epidemiol 1989 Nov;24(6):321–6
Suicide, unemployment and gender variations in the Western world 1964–1986. Are women in Anglo-phone countries protected from suicide? Pritchard C.
Soc Psychiatry Psychiatr Epidemiol 1990 Mar;25(2):73–80
Cross-cultural perspectives on disability. **Soc Sci Med** 1990; 30(8):839–912
The French version of the Nottingham Health Profile. A comparison of items weights with those of the source version. Bucquet D, et al. **Soc Sci Med** 1990;30(7):829–35
Problems in comparing findings on social class cross-culturally—applied to infant mortality (Australia and Britain). Quine S. **Soc Sci Med** 1990;30(12):1283–8
Social work practice theory: a trans-cultural resource for health care. Turner FJ. **Soc Sci Med** 1990;31(1):13–7 (27 ref.)
National expenditures on social security and health in selected countries. Simanis JG. **Soc Secur Bull** 1990 Jan; 53(1):12–6
Suicide trends in Canada and West Germany: an application of configural frequency analysis [letter] Cantor C.
Suicide Life Threat Behav 1990 Summer;20(2):185–6
Suicide trends in Canada and West Germany: an application of configural frequency analysis. Chipuer HM, et al.
Suicide Life Threat Behav 1989 Fall;19(3):264–76
Suicidal behavior in jails and prisons in The Netherlands: incidence, characteristics, and prevention. Kerkhof AJ, et al. **Suicide Life Threat Behav** 1990 Summer;20(2):123–37
Self-reported suicidal behavior in Dutch secondary education students. Kienhorst CW, et al.
Suicide Life Threat Behav 1990 Summer;20(2):101–12
Suicidal Asian patients: recommendations for treatment. Takahashi Y. **Suicide Life Threat Behav** 1989 Fall; 19(3):305–13
Abortion laws and policies: challenges and opportunities [see comments] Cook RJ. **Suppl Int J Gynecol Obstet** 1989; 3:61–87 (200 ref.) Comment in: Suppl Int J Gynecol Obstet 1989;3:89–92.
The definition of death: the Japanese attitude and experience. Bai K. **Transplant Proc** 1990 Jun;22(3):991–2
The distribution of renal transplants—are physicians just? Kjellstrand C. **Transplant Proc** 1990 Jun;22(3):964–5
How can one balance duty to all cultures and ethnic groups with effective procurement and equitable distribution of organs for clinical transplantation? New evidence of the key importance of local primacy for a successful organ donation effort. Rapaport FT, et al. **Transplant Proc** 1990 Jun;22(3):1007–9
The anencephalic neonate and brain death: an international review of medical, ethical, and legal issues. Rothenberg LS. **Transplant Proc** 1990 Jun;22(3):1037–9 (66 ref.)
Global review of transplantation practices. Turcotte JG, et al. **Transplant Proc** 1990 Jun;22(3):906–7
Hospital use in France and the United States. Kozak LJ, et al. **Vital Health Stat 5** 1989 Jan;5(4):1–80
Adult health practices in the United States and Canada. Stephens T, et al. **Vital Health Stat 5** 1988 May;5(3):1–72
Toward a cross-cultural view of job satisfaction in nursing. Mangelsdorf KR, et al. **West J Nurs Res** 1990 Jun; 12(3):386–401
A cross-cultural field study of nurses and political strategies. Wing DM. **West J Nurs Res** 1990 Jun;12(3):373–85
[Comparison of the content of delusions of schizophrenics in China and Japan: cross-cultural psychiatric investigation] Zheng ZP.
Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Oct; 22(5):266–8, 317 (Eng. Abstr.) **(Chi)**
[Eurothemes. Looking at the same thing with different eyes] Spanjer M. **Ned Tijdschr Geneeskd** 1989 Sep 30; 133(39):1945–7 **(Dut)**
[Maternal mortality] Welsch H. **Arch Gynecol Obstet** 1989; 245(1–4):321–8 **(Ger)**
[Transfusion-associated HIV infection] Frey-Wettstein M. **Beitr Infusionther** 1989;24:18–26 (12 ref.) (Eng. Abstr.) **(Ger)**
[The significance of HTLV-1 and HIV-2 for transfusion medicine in Europe] Gürtler L. **Beitr Infusionther** 1989; 24:27–32 (7 ref.) (Eng. Abstr.) **(Ger)**
[Developments in street traffic from 1975 to 1988 from a statistical viewpoint] Barth W. **Blutalkohol** 1990 Mar; 27(2):73–82 (Eng. Abstr.) **(Ger)**
[Locus of control of depressive patients in a cross-cultural comparison] Räder KK, et al. **Fortschr Neurol Psychiatr** 1990 Jun;58(6):207–14 (Eng. Abstr.) **(Ger)**
[Steiermark data of congenital abnormalities with regional classification and comparative international values] Häusler M, et al. **Gynakol Rundsch** 1989;29 Suppl 2:254–6 **(Ger)**
[Epidemiology of malignant melanoma in West Germany in an international comparison] Garbe C, et al. **Onkologie** 1989 Dec;12(6):253–62 (125 ref.) (Eng. Abstr.) **(Ger)**
[Possible effects of acquired immunologic deficiency syndrome (AIDS) on tuberculosis in industrial and developing countries] Styblo K. **Pneumologie** 1990 Feb;44 Suppl 1:647–52 (Eng. Abstr.) **(Ger)**
[The divided female—motherhood and public culture] Nadig M. **Psyche (Stuttg)** 1990 Jan;44(1):53–70 (Eng. Abstr.) **(Ger)**
[Confronting national disgrace. An ethno-psychoanalytic

comparison of German and Italian culture] Parin P. **Psyche (Stuttg)** 1990 Jul;44(7):643–59 (Eng. Abstr.) (Ger)

[The epidemiology of suicide and attempted suicide] Häfner H. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Aug; 41(8):449–75 (55 ref.) (Eng. Abstr.) (Ger)

[Psychiatric–psychosocial activities in West Germany: old and new responsibilities] Mitzlaff S. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Jun; 42(6):348–55 (Eng. Abstr.) (Ger)

[The illness concept in adolescent psychiatry] Yamamoto A. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Jun; 42(6):321–32 (Eng. Abstr.) (Ger)

[Roentgen findings in Saudi Arabia] Schertel L. **Rontgenpraxis** 1989 Oct;42(10):354–62 (Ger)

[Epidemiology of substance dependence] Uchtenhagen A. **Schweiz Arch Neurol Psychiatr** 1989;140(5):407–19 (10 ref.) (Eng. Abstr.) (Ger)

[Attitude of medical students in West Germany towards smoking] Von Troschke J, et al. **Soz Praventivmed** 1989; 34(3):119–23 (Eng. Abstr.) (Ger)

[Cervix cancer: incidence, diagnosis, therapeutic principle] Ludwig H. **Ther Umsch** 1989 Dec;46(12):855–63 (Eng. Abstr.) (Ger)

[Reform of medical education as an international trend] Dutz W. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):451–4 (Eng. Abstr.) (Ger)

[Epidemiology of atherosclerosis and disorders of lipid metabolism] Kunze M, et al. **Wien Med Wochenschr** 1990 Feb 28;140(4):94–100 (25 ref.) (Eng. Abstr.) (Ger)

[Results of international studies of the effect of smoking on life and health and the effectiveness of smoking cessation] Wilde J. **Z Arztl Fortbild (Jena)** 1989;83(21):1047–53 (Ger)

[Gerontology in Brazil] Krüger H. **Z Gerontol** 1989 Sep–Oct; 22(5):263–4 (Ger)

[Social status of the elderly in Poland] Smyczynski T. **Z Gerontol** 1990 Mar–Apr;23(2):102–7 (Eng. Abstr.) (Ger)

[AIDS information] **Z Gesamte Hyg** 1989 Oct;35(10):631 (Ger)

[The expanded WHO vaccination program and the vaccination strategy in East Germany] Dittmann S, et al. **Z Gesamte Hyg** 1990 Apr;36(4):186–91 (Eng. Abstr.) (Ger)

[Health counseling—an element of preventive care responsibility of the general practitioner] Friedemann H. **Z Gesamte Hyg** 1990 Jan;36(1):3–8 (58 ref.) (Eng. Abstr.) (Ger)

[Family status and coronary heart disease in the female] Wagner U. **Z Gesamte Inn Med** 1989 Sep 15;44(18):533–5 (26 ref.) (Eng. Abstr.) (Ger)

[Special design characteristics of the Japanese "Tan–to" (knife) as criteria for dangerousness] Weber W. **Z Rechtsmed** 1990;103(6):473–5 (Eng. Abstr.) (Ger)

[Epidemiology of breast cancer] Ebeling K. **Zentralbl Gynakol** 1990;112(5):253–62 (25 ref.) (Eng. Abstr.) (Ger)

[Multi–parity in Saudi Arabia] Krüger N, et al. **Zentralbl Gynakol** 1990;112(10):617–21 (Eng. Abstr.) (Ger)

[The symptoms questionnaire for problem detection in adults] Climent CE, et al. **Acta Psiquiatr Psicol Am Lat** 1989 Jul–Dec;35(3–4):124–31 (Eng. Abstr.) (Spa)

CROSS INFECTION

see related
PATIENT ISOLATION
PATIENT ISOLATORS

Pulmonary infection in intensive care units. Inglis TJ. **Br J Anaesth** 1990 Jul;65(1):94–106 (58 ref.)

Surveillance for quality assessment: I. Surveillance in infection control success reviewed. Credé W, et al. **Infect Control Hosp Epidemiol** 1989 Oct;10(10):470–4 (28 ref.)

A potential for cross–contamination within a dental school environment. Miller RC, et al. **J Dent Educ** 1990 Feb; 54(2):160–2

Klebsiella pneumoniae bacteraemia at an urban general hospital. Feldman C, et al. **J Infect** 1990 Jan;20(1):21–31

Length of hospital stay in veteran surgical service patients with nosocomial infections. Flournoy DJ, et al. **J Natl Med Assoc** 1990 Apr;82(4):265–70

Hemolytic–uremic syndrome during an outbreak of Escherichia coli O157:H7 infections in institutions for mentally retarded persons: clinical and epidemiologic observations. Pavia AT, et al. **J Pediatr** 1990 Apr; 116(4):544–51

Doctors with HIV [news] **Lancet** 1990 Aug 18;336(8712):432

Outbreaks of drug–resistant tuberculosis at AIDS centre [letter] Pitchenik AE, et al. **Lancet** 1990 Aug 18; 336(8712):440–1

Nosocomial bacterial pneumonias. Septimus EJ. **Semin Respir Infect** 1989 Dec;4(4):245–52 (52 ref.)

Intraabdominal infections and gut origin sepsis. Offenbartl K, et al. **World J Surg** 1990 Mar–Apr;14(2):191–5 (33 ref.)

[The current status of nosocomial pneumonia] Yin BY, et al. **Chung Hua Nei Ko Tsa Chih** 1990 Jan;29(1):51–3 (10 ref.) (Chi)

["Nosocomial infections and intensive care". 2d regional meeting on medico–surgical intensive care units in Picardie. Amiens, 10 March 1988. Proceedings] **Agressologie** 1989 May;30(5):245–90 (Fre)

BLOOD

Serum IgG antibodies to Pseudomonas aeruginosa in intensive care adult patients [letter] Cohendy R, et al. **Intensive Care Med** 1990;16(4):281

Cytomegalovirus and legionella species as the cause of liver enzyme elevations in haemodialysis patients [see comments] Cunha A, et al. **J Hosp Infect** 1989 Aug;14(2):95–8 Comment in: J Hosp Infect 1990 Feb;15(2):198–9.

CEREBROSPINAL FLUID

Mycoplasmal infections of cerebrospinal fluid in newborn infants from a community hospital population. Waites KB, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):241–5

CHEMICALLY INDUCED

Bard biocath hydrophilic–coated Foley catheters. **Health Devices** 1988 Feb;17(2):69

Nosocomial diarrhea: beware the medicinal elixir. Edes TE, et al. **South Med J** 1989 Dec;82(12):1497–500

COMPLICATIONS

Extra hospital stay and antibiotic usage with nosocomial coagulase–negative staphylococcal bacteremia in two neonatal intensive care unit populations. Freeman J, et al. **Am J Dis Child** 1990 Mar;144(3):324–9

Candida–associated diarrhea in hospitalized patients. Gupta TP, et al. **Gastroenterology** 1990 Mar;98(3):780–5

Infection on a gynecologic oncology service. McNeeley SG Jr, et al. **Gynecol Oncol** 1990 May;37(2):183–7

Clostridium difficile colitis in the hospital setting: a potentially explosive problem [editorial] Stratton CW. **Infect Control Hosp Epidemiol** 1990 Jun;11(6):281–2

Nosocomial infection with penicillin–resistant pneumococci in patients with AIDS [letter] Blumberg HM, et al. **J Infect Dis** 1989 Oct;160(4):725–6

Clostridium difficile carriage after infection [letter] Issack MI, et al. **Lancet** 1990 Mar 10;335(8689):610–1

[Pneumocystosis in patients with benign and malignant neoplasms] Mamedov NA, et al. **Vopr Onkol** 1989; 35(9):1106–8 (Rus)

DIAGNOSIS

Endotoxic activity and enterotoxigenicity of human strains of Campylobacter jejuni isolated from patients in a Nigerian hospital. Coker AO, et al. **Cent Afr J Med** 1989 Nov; 35(11):524–7

Ventilator–associated pneumonia in patients with respiratory failure. A diagnostic approach [see comments] Meduri GU. **Chest** 1990 May;97(5):1208–19 (65 ref.) Comment in: Chest 1990 May;97(5):1026–7.

Qualitative intravascular catheter tip cultures do not predict catheter–related bacteremia. Nahass RG, et al. **Diagn Microbiol Infect Dis** 1990 May–Jun;13(3):223–6

Evaluation of a new method of detection of nosocomial infection in the pediatric intensive care unit: the Infection Control Sentinel Sheet System. Ford–Jones EL, et al. **Infect Control Hosp Epidemiol** 1989 Nov;10(11):515–20

An outbreak of multiply resistant Pseudomonas aeruginosa in a neonatal unit: plasmid pattern analysis. Garcia DC, et al. **J Hosp Infect** 1989 Aug;14(2):99–105

[Detection of nosocomial infections: a proposal of a protocol for a prospective study] Gallet E, et al. **Agressologie** 1989 May;30(5):259–62 (Eng. Abstr.) (Fre)

[Consensus development conferences in intensive care medicine. V conference: diagnosis of nosocomial pneumonia in resuscitation. (Bicêtre University Hospital Center, Paris, October 13, 1989)] Kahn RJ, et al. **Ann Fr Anesth Reanim** 1990;9(3):318–20 (0 ref.) (Fre)

[Diagnosis of nosocomial pneumopathies: elastic fibers] Neviere R, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R261 (Fre)

[The incidence of tuberculosis at an intensive care unit] Männle C, et al. **Anasth Intensivther Notfallmed** 1989 Dec; 24(6):334–40 (Eng. Abstr.) (Ger)

[New developments in bedside diagnosis] Spencker FB, et al. **Z Gesamte Hyg** 1989 Oct;35(10):593–5 (20 ref.) (Eng. Abstr.) (Ger)

[The diagnostic value of wound secretion analysis] Bettin D, et al. **Z Orthop** 1989 Jul–Aug;127(4):518–21 (Eng. Abstr.) (Ger)

[Analysis of the clinical course of occupational pulmonary tuberculosis in medical personnel of the Western Pomerania macroregion 1978–1987] Sedlaczek AM. **Pneumonol Pol** 1990 Jan;58(1):33–7 (Eng. Abstr.) (Pol)

DRUG THERAPY

Dipyridamole (Curantyl, Antistenocardin) failed to induce interferon (IFN) in man [letter] Tonew M, et al. **Acta Virol (Praha)** 1989 Dec;33(6):586

Infectious diseases in the critically ill. LoCicero J 3d, et al. **Acute Care** 1987;13(1–2):44–73 (166 ref.)

Antimicrobial use in hospital–acquired infections. Ryan JL. **Am J Infect Control** 1989 Oct;17(5):311–5 (32 ref.)

Antimicrobial therapy in special situations, including extended care facilities and the outpatient setting. Smith PW. **Am J Infect Control** 1989 Oct;17(5):316–22 (32 ref.)

Gram–negative bacillary pneumonia in the nosocomial setting. Role of aztreonam therapy. Cook JL. **Am J Med** 1990 Mar 23;88(3C):34S–37S; discussion 38S–42S

Efficacy and safety of higher–dose intravenous ciprofloxacin in severe hospital–acquired infections. Kljucar S, et al. **Am J Med** 1989 Nov 30;87(5A):52S–56S

Hospital–acquired neonatal bacterial meningitis: the impacts of cefotaxime usage on mortality and of amikacin usage on incidence. Coovadia YM, et al. **Ann Trop Paediatr** 1989 Dec;9(4):233–9

Evaluation of intravenous ciprofloxacin in patients with nosocomial lower respiratory tract infections. Impact of plasma concentrations, organism, minimum inhibitory concentration, and clinical condition on bacterial eradication. Peloquin CA, et al. **Arch Intern Med** 1989 Oct; 149(10):2269–73

Antibiotic susceptibility of Escherichia coli isolates from inpatients with urinary tract infections in hospitals in Addis Ababa and Stockholm. Ringertz S, et al. **Bull World Health Organ** 1990;68(1):61–8

The management of the carrier of methicillin–resistant Staphylococcus aureus. Fekety R. **Curr Clin Top Infect Dis** 1987;8:169–80 (48 ref.)

Hospital dispersion of Staphylococcus epidermidis isolates resistant to a fluoroquinolone, pefloxacin. Etienne J, et al. **Epidemiol Infect** 1989 Dec;103(3):459–64

Pneumonia, UTI, and decubiti in the nursing home: optimal management. Yoshikawa TT. **Geriatrics** 1989 Oct; 44(10):32–4, 37–40, 43 (30 ref.)

Bacterial resistance to trimethoprim in geriatric medical wards. Bendall MJ, et al. **Gerontology** 1989;35(2–3):121–6

Empiric antimicrobial therapy in the febrile granulocytopenic patient. Hughes WT. **Infect Control Hosp Epidemiol** 1990 Mar;11(3):151–6 (34 ref.)

In vitro activity of tigemonam against multiresistant nosocomial Enterobacteriaceae. Giamarellou H, et al. **J Chemother** 1989 May;1 Suppl 2:32–5

Ceftazidime in the management of hospital infection. **J Hosp Infect** 1990 Apr;15 Suppl A:1–89

Results of a clinical and pharmacokinetic study of ceftazidime in patients with postoperative pneumonia on assisted ventilation. Erttmann M, et al. **J Hosp Infect** 1990 Apr;15 Suppl A:55–9

Comparative clinical trial of ceftazidime and imipenem/cilastatin in patients with severe nosocomial pneumonias and septicaemias. Hartenauer U, et al. **J Hosp Infect** 1990 Apr;15 Suppl A:61–4

Challenges in the design of trials to evaluate antibacterial agents in serious infections. Norrby SR. **J Hosp Infect** 1990 Apr;15 Suppl A:13–21

Nosocomial gram–negative bloodstream isolates: a comparison of in vitro antibiotic potency. Stanley GL, et al. **J Hosp Infect** 1989 Oct;14(3):217–25

Single–dose ciprofloxacin for shigellosis [letter] Williams HM, et al. **Lancet** 1990 Jun 2;335(8701):1343–4

Hospital outbreak of Salmonella enteritidis infection treated with ciprofloxacin [letter] Willocks LJ, et al. **Lancet** 1990 Jun 9;335(8702):1404–5

Activity of cefotiam in combination with beta–lactam antibiotics on enterobacterial hospital strains. Vanhoof R, et al. **Pharm Weekbl [Sci]** 1990 Jun 22;12(3):104–6

[Therapeutic potential of ofloxacin in hospital medicine. A French multicenter study] Carbon C, et al. **Pathol Biol (Paris)** 1990 May;38(5):397–400 (Eng. Abstr.) (Fre)

[Nosocomial infections caused by multi–resistant Serratia marcescens at a university clinic—clinical aspects and drug resistance] Halle E, et al. **Padiatr Grenzgeb** 1989; 28(5):299–309 (Eng. Abstr.) (Ger)

[Diagnosis, prevention and therapy of systemic mycoses within the scope of surgical intensive care] Tausch W, et al. **Zentralbl Chir** 1989;114(13):876–82 (21 ref.) (Ger)

[Antibioticotherapy based on statistics in intensive therapy] Nardi G, et al. **Minerva Anestesiol** 1989 Jul–Aug; 55(7–8):307–11 (Eng. Abstr.) (Ita)

[Antibiotic and phage sensitivity of cultures of Staphylococcus isolated from purulent foci and from carriers in a traumatological hospital] Gnetnev AM, et al. **Antibiot Khimioter** 1989 Jun;34(6):475–8 (Rus)

ECONOMICS

Containing costs of antimicrobials in the hospital: a critical evaluation. Ehrenkranz NJ. **Am J Infect Control** 1989 Oct; 17(5):300–10 (49 ref.)

The tangible cost implications of a hospital outbreak of multiply–resistant Salmonella. Barnass S, et al. **Epidemiol Infect** 1989 Oct;103(2):227–34

[The cost of hospital acquired infections] Le Coutour X, et al. **Agressologie** 1989 May;30(5):275–7 (15 ref.) (Eng. Abstr.) (Fre)

[Economic impact of nosocomial infections on the Metropolitan Hospital Complex of the Social Security Fund (from January through December, 1987)] de Martin MC, et al. **Rev Med Panama** 1990 May;15(2):112–8 (Eng. Abstr.) (Spa)

EPIDEMIOLOGY

Septicaemia with coagulase negative staphylococci in a neonatal intensive care unit. Risk factors for infection, and antimicrobial susceptibility of the bacterial strains. Eshali H, et al. **Acta Paediatr Scand Suppl** 1989;360:127–34

Neonatal septicaemia—incidence, etiology and outcome. A 6-year analysis. Granel EL, et al. **Acta Paediatr Scand Suppl** 1989;360:113–9

Epidemic bacteremia due to Acinetobacter baumannii in five intensive care units. Beck-Sagué CM, et al. **Am J Epidemiol** 1990 Oct;132(4):723–33

The effects of sensitivity and specificity of case selection on validity, sample size, precision, and power in hospital-based case-control studies. Brenner H, et al. **Am J Epidemiol** 1990 Jul;132(1):181–92

Nosocomial infections: validation of surveillance and computer modeling to identify patients at risk. Broderick A, et al. **Am J Epidemiol** 1990 Apr;131(4):734–42

The incidence of viral-associated diarrhea after admission to a pediatric hospital. Ford-Jones EL, et al. **Am J Epidemiol** 1990 Apr;131(4):711–8

Selection of controls [letter] Childress JA, et al. **Am J Infect Control** 1990 Aug;18(4):292

Investigation of an outbreak of Acinetobacter calcoaceticus var. anitratus infections in an adult intensive care unit. Contant J, et al. **Am J Infect Control** 1990 Aug;18(4):288–91

Nosocomial infection in neonatal intensive care units. Donowitz LG. **Am J Infect Control** 1989 Oct;17(5):250–7 (75 ref.)

Methodology to evaluate a computer-based system for surveillance of hospital-acquired infections. Gaynes R, et al. **Am J Infect Control** 1990 Feb;18(1):40–6

Nosocomial infection rates during a one-year period in a nursing home care unit of a Veterans Administration hospital. Hoffman N, et al. **Am J Infect Control** 1990 Apr; 18(2):55–63

Incidence and impact of infection in a nursing home care unit. Jacobson C, et al. **Am J Infect Control** 1990 Jun; 18(3):151–9

Outbreak of multiply resistant Staphylococcus aureus in a pediatric intensive care unit after consolidation with a surgical intensive care unit. Ribner BS, et al. **Am J Infect Control** 1989 Oct;17(5):244–9

Conjunctivitis associated with methicillin-resistant Staphylococcus aureus in a long-term-care facility. Brennen C, et al. **Am J Med** 1990 May;88(5N):14N–17N

Prospective study of Candida endophthalmitis in hospitalized patients with candidemia. Brooks RG. **Arch Intern Med** 1989 Oct;149(10):2226–8

Defining risks for nosocomial candidemia [editorial] Henderson DK. **Arch Intern Med** 1989 Oct;149(10):2172–3

Risk factors for nosocomial pneumonia in intensive care [letter; comment] Karlstadt RG, et al. **Arch Intern Med** 1990 Apr;150(4):919 Comment on: Arch Intern Med 1989 Jan;149(1):30–5.

Risk factors for hospital-acquired candidemia. A matched case-control study. Wey SB, et al. **Arch Intern Med** 1989 Oct;149(10):2349–53

Klebsiella bacteremia. A 10-year review in a cancer institution. Bodey GP, et al. **Cancer** 1989 Dec 1; 64(11):2368–76

Early nosocomial infections in pediatric cardiovascular surgery patients. Pollock EM, et al. **Crit Care Med** 1990 Apr;18(4):378–84

Epidemiology and prevention of nosocomial pneumonia. Hughes JM. **Curr Clin Top Infect Dis** 1988;9:241–59 (87 ref.)

Salmonella typhimurium outbreak at Kenyatta National Hospital (1985). Mirza NB, et al. **East Afr Med J** 1989 Jul;66(7):453–7

Susceptibility of enterococci and epidemiology of enterococcal infection in the 1980s. George RC, et al. **Epidemiol Infect** 1989 Dec;103(3):403–13 (87 ref.)

Development of a new set of phages as an epidemiological marker in Staphylococcus epidermidis causing nosocomial infections. Martin-de-Nicolás MM, et al. **Epidemiol Infect** 1990 Feb;104(1):111–8

The Stafford outbreak of Legionnaires' disease. O'Mahony MC, et al. **Epidemiol Infect** 1990 Jun;104(3):361–80

The epidemiology of enterococci. Chenoweth C, et al. **Eur J Clin Microbiol Infect Dis** 1990 Feb;9(2):80–9 (103 ref.)

Spread of non-typable multiply resistant Haemophilus influenzae in a South African hospital. Heney C, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):24–9

Hospital stay length as an effect modifier of other risk factors for nosocomial infection. Delgado-Rodríguez M, et al. **Eur J Epidemiol** 1990 Mar;6(1):34–9

UTI: managing the most common nursing home infection. Breitenbucher RB. **Geriatrics** 1990 May;45(5):68–70, 75

Outbreak of Salmonella worthington meningitis & septicaemia in a hospital at Chandigarh (north India). Ayyagari A, et al. **Indian J Med Res** 1990 Jan;91:15–7

Salmonella senftenberg outbreak in a neonatal unit. Joseph AT, et al. **Indian Pediatr** 1990 Feb;27(2):157–60

Cross-sectional survey sampling [letter; comment] Birnbaum D. **Infect Control Hosp Epidemiol** 1989 Nov;10(11):502 Comment on: Infect Control Hosp Epidemiol 1989 Jul;10(7):321–5.

Cluster sampling in hospital surveillance. Burmeister LF. **Infect Control Hosp Epidemiol** 1989 Dec;10(12):573–5

A comparison of infection control software for use by hospital epidemiologists in meeting the new JCAHO standards. LaHaise S. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):185–90

Calculating infection control rates [letter] Moraleda MH. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):389–90

Nosocomial bloodstream infection at a veterans hospital; 1979 to 1987 [published erratum appears in Infect Control Hosp Epidemiol 1990 Feb;11(2):62] Mylotte JM, et al. **Infect Control Hosp Epidemiol** 1989 Oct;10(10):455–64

The choice of microcomputer software for infection control [editorial] Reagan DR. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):178–9

Methicillin-resistant Staphylococcus aureus outbreak at a Veterans' Affairs Medical Center: importance of carriage of the organism by hospital personnel. Reboli AC, et al. **Infect Control Hosp Epidemiol** 1990 Jun;11(6):291–6

Nosocomial fungal infections. Old problems and new challenges. Anaissie E, et al. **Infect Dis Clin North Am** 1989 Dec;3(4):867–82 (120 ref.)

Epidemiology and control of nosocomial viral infections. Graman PS, et al. **Infect Dis Clin North Am** 1989 Dec; 3(4):815–41 (121 ref.)

Molecular analysis of nosocomial epidemics. John JF Jr. **Infect Dis Clin North Am** 1989 Dec;3(4):683–700 (78 ref.)

Nosocomial infections in the elderly. Smith PW. **Infect Dis Clin North Am** 1989 Dec;3(4):763–77 (67 ref.)

Nosocomial infections due to Serratia marcescens—clinical findings, antibiotic susceptibility patterns and fine typing. Bollmann R, et al. **Infection** 1989 Sep-Oct;17(5):294–300

Epidemiology of extended spectrum beta-lactamases. Philippon A, et al. **Infection** 1989 Sep-Oct;17(5):347–54

Is hepatitis B confined to residential mental handicap centres? [letter] [see comments] Scanlon S. **Ir Med J** 1989 Dec; 82(4):180 Comment in: Ir Med J 1990 Mar;83(1):40.

Aeromonas hydrophila diarrhea in a long-term care setting. Bloom HG, et al. **J Am Geriatr Soc** 1990 Jul;38(7):804–6

Salmonella outbreak in a nursing home. Choi M, et al. **J Am Geriatr Soc** 1990 May;38(5):531–4

Epidemiological markers for epidemic strain and carrier isolates in an outbreak of nosocomial oxacillin-resistant Staphylococcus aureus. Bouvet A, et al. **J Clin Microbiol** 1990 Jun;28(6):1338–41

Single-source outbreak of Candida tropicalis complicating coronary bypass surgery [see comments] Isenberg HD, et al. **J Clin Microbiol** 1989 Nov;27(11):2426–8 Comment in: J Clin Microbiol 1990 May;28(5):1086–7.

Use of molecular typing to study the epidemiology of Serratia marcescens. McGeer A, et al. **J Clin Microbiol** 1990 Jan; 28(1):55–8

Acinetobacter baumannii serotyping for delineation of outbreaks of nosocomial cross-infection. Traub WH. **J Clin Microbiol** 1989 Dec;27(12):2713–6

Epidemic of Serratia marcescens bacteremia in a cardiac intensive care unit. Villarino ME, et al. **J Clin Microbiol** 1989 Nov;27(11):2433–6

Control of an outbreak of nosocomial aspergillosis by laminar air-flow isolation. Barnes RA, et al. **J Hosp Infect** 1989 Aug;14(2):89–94

Living with EMRSA-1 [letter] Barrett SP, et al. **J Hosp Infect** 1990 Jan;15(1):103–4

Nosocomial outbreaks due to amikacin-resistant tobramycin-sensitive Acinetobacter species: correlation with amikacin usage. Buisson Y, et al. **J Hosp Infect** 1990 Jan;15(1):83–93

A laboratory-confirmed outbreak of rifampicin-methicillin resistant Staphylococcus aureus (RMRSA) in a newborn nursery. Coovadia YM, et al. **J Hosp Infect** 1989 Nov; 14(4):303–12

Future developments in nosocomial infections: the perspective in the United States. Gentry LO. **J Hosp Infect** 1990 Apr;15 Suppl A:3–12 (31 ref.)

Information, computers and infection control. Gransden WR. **J Hosp Infect** 1990 Jan;15(1):1–5

A pseudo-outbreak of Pseudomonas on a special care baby unit. Heard S, et al. **J Hosp Infect** 1990 Jul;16(1):59–65

A study of the relationships between antibiotic resistance phenotypes, phage-typing and biotyping of 117 clinical isolates of Acinetobacter spp. Joly-Guillou ML, et al. **J Hosp Infect** 1990 Jul;16(1):49–58

A survey of methicillin-resistant Staphylococcus aureus affecting patients in England and Wales. Kerr S, et al. **J Hosp Infect** 1990 Jul;16(1):35–48

Enterobacter cloacae in a haematology/oncology ward—first impressions. McConkey SJ, et al. **J Hosp Infect** 1989 Nov; 14(4):277–84

Methicillin-resistant Staphylococcus aureus in a general hospital in Brazil [letter] Marques AR, et al. **J Hosp Infect** 1989 Nov;14(4):380–1

Nosocomial acquisition of Salmonella enteritidis among healthy adults [letter] Møller LA, et al. **J Hosp Infect** 1990 May;15(4):393–4

An outbreak of acinetobacter septicaemia in a neonatal intensive care unit. Ng PC, et al. **J Hosp Infect** 1989 Nov; 14(4):363–8

Nosocomial bacteraemia in a teaching hospital in Saudi Arabia. al-Orainey IO, et al. **J Hosp Infect** 1989 Oct; 14(3):201–7

A prevalence survey of nosocomial infection in a Brazilian hospital. Wagner MB, et al. **J Hosp Infect** 1990 May; 15(4):379–81

An outbreak of pemphigus neonatorum. Dancer SJ, et al. **J Infect** 1990 Jan;20(1):73–82

Fatal echovirus 7 infection during an outbreak in a special care baby unit. Wreghitt TG, et al. **J Infect** 1989 Nov; 19(3):229–36

A common-source outbreak of Staphylococcus epidermidis infections among patients undergoing cardiac surgery. Boyce JM, et al. **J Infect Dis** 1990 Mar;161(3):493–9

Nosocomial transmission of tuberculosis associated with a draining abscess. Hutton MD, et al. **J Infect Dis** 1990 Feb; 161(2):286–95

Risk factors for Clostridium difficile carriage and C. difficile-associated diarrhea in a cohort of hospitalized patients. McFarland LV, et al. **J Infect Dis** 1990 Sep; 162(3):678–84

Nosocomial outbreak of neonatal gastroenteritis caused by a new serotype 4, subtype 4B human rotavirus. Gerna G, et al. **J Med Virol** 1990 Jul;31(3):175–82

Methicillin-resistant Staphylococcus aureus: a descriptive analysis on veterans. Hall LE, et al. **J Okla State Med Assoc** 1990 Feb;83(2):60–3

Nosocomial infections due to Acinetobacter calcoaceticus. Zaer F, et al. **J Postgrad Med** 1989 Jan;35(1):14–6

Half a decade of neonatal sepsis, Riyadh, Saudi Arabia. Haque KN, et al. **J Trop Pediatr** 1990 Feb;36(1):20–3

From the Centers for Disease Control. Nursing home outbreaks of invasive group A streptococcal infections—Illinois, Kansas, North Carolina, and Texas. **JAMA** 1990 Sep 26;264(12):1518, 1520

Nosocomial epidemic of active tuberculosis among HIV-infected patients. Di Perri G, et al. **Lancet** 1989 Dec 23-30;2(8678-8679):1502–4

Cross-infection by non-encapsulated Haemophilus influenzae. Gough J, et al. **Lancet** 1990 Jul 21; 336(8708):159–60

Hospital outbreak of scabies stemming from two AIDS patients with Norwegian scabies [letter] Sirera G, et al. **Lancet** 1990 May 19;335(8699):1227

A follow-up study of an outbreak of non-A, non-B hepatitis in a plasmapheresis unit. Laskus T, et al. **Liver** 1990 Feb; 10(1):49–53

An Australia-wide epidemic of Pseudomonas pickettii bacteraemia due to contaminated "sterile" water for injection. Roberts LA, et al. **Med J Aust** 1990 Jun 18; 152(12):652–5

Nursing home outbreaks of invasive group A streptococcal infections—Illinois, Kansas, North Carolina, and Texas. **MMWR** 1990 Aug 31;39(34):577–9

Methicillin-resistant Staphylococcus aureus: an increasing threat in New Zealand hospitals. Martin DR, et al. **N Z Med J** 1989 Jul 26;102(872):367–9

A study comparing rooming-in with separate nursing. Syafruddin M, et al. **Paediatr Indones** 1988 May-Jun; 28(5-6):116–23

Nosocomial infections in black South African children. Cotton MF, et al. **Pediatr Infect Dis J** 1989 Oct; 8(10):676–83

Epidemiologic study of 4684 hospital-acquired infections in pediatric patients. Ford-Jones EL, et al. **Pediatr Infect Dis J** 1989 Oct;8(10):668–75

Outbreak of parainfluenza virus type 3 in a neonatal nursery. Singh-Naz N, et al. **Pediatr Infect Dis J** 1990 Jan;9(1):31–3

Enterococcal sepsis in neonates: features by age at onset and occurrence of focal infection. Dobson SR, et al. **Pediatrics** 1990 Feb;85(2):165–71

Pseudomonas bacteremia in a community teaching hospital, 1980-1984. Gallagher PG, et al. **Rev Infect Dis** 1989 Nov-Dec;11(6):846–52

Diarrhea in developed and developing countries: magnitude, special settings, and etiologies. Guerrant RL, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 1:S41–50 (72 ref.)

Serratia bacteremia: review of 118 cases. Saito H, et al. **Rev Infect Dis** 1989 Nov-Dec;11(6):912–20

Waterborne Campylobacter jejuni epidemic in a Finnish hospital for rheumatic diseases. Rautelin H, et al. **Scand J Infect Dis** 1990;22(3):321–6

Serratia bacteremia: a review of 44 episodes. Watanakunakorn C. **Scand J Infect Dis** 1989;21(5):477–83

Nosocomial lower respiratory tract infections in surgical wards. Kinnear WJ, et al. **Thorax** 1990 Mar;45(3):187–9

An outbreak of nosocomial cholera in a 755-bed hospital. Swaddiwudhipong W, et al. **Trans R Soc Trop Med Hyg** 1989 Mar-Apr;83(2):279–81

Acquired immunodeficiency syndrome (AIDS). **Wkly Epidemiol Rec** 1990 Feb 23;65(8):56–7 **(Eng, Fre)**

[Analysis of the prevalence of nosocomial infections] Song P, et al. **Chung Hua Hu Li Tsa Chih** 1990 Apr;25(4):166–8 **(Chi)**

[A nosocomial epidemic caused by adenovirus type 3 at a clinic for children and adolescents] Stanek J, et al. **Cesk Epidemiol Mikrobiol Imunol** 1989 Jul;38(4):193–8 (Eng. Abstr.) **(Cze)**

[Registration and prevention of hospital infections in a general hospital] Verbrugh HA, et al. **Ned Tijdschr Geneeskd** 1990 Mar 10;134(10):490–5 (Eng. Abstr.) **(Dut)**

[Incidence of nosocomial infections in patients with chronic respiratory insufficiency admitted to a respiratory intensive care unit] Defouilloy C, et al. **Agressologie** 1989 May; 30(5):247–9 (Eng. Abstr.) **(Fre)**

[Nosocomial Staphylococcus epidermidis and Staphylococcus aureus septicemias in neonates] Gouyon JB, et al. **Ann Pediatr (Paris)** 1990 Jan;37(1):21–5 (Eng. Abstr.) **(Fre)**

[Hospital infection in the maternity department. 3 years of surveillance in 9,204 deliveries of which 1,333 were cesarean sections] Tissot-Guerraz F, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990;19(1):19–24 (Eng. Abstr.) **(Fre)**

[Epidemiology of Acinetobacter and resistance to antibiotics at hospitals. A 5-year evaluation] Joly-Guillou ML, et al. **Presse Med** 1990 Mar 3;19(8):357-61 (Eng. Abstr.) **(Fre)**

[Nosocomial infections in surgical intensive medicine. Results of a 5-year prospective study] Hartenauer U, et al. **Anasth Intensivther Notfallmed** 1990 Feb;25(1):93-101 (Eng. Abstr.) **(Ger)**

[247 episodes of sepsis at a medical department of a district hospital] Losa F, et al. **Schweiz Med Wochenschr** 1989 Oct 7;119(40):1375-81 (Eng. Abstr.) **(Ger)**

[5 years' infection statistics of an orthopedic clinic—pathogen spectrum, resistance status, therapeutic consequences] Braun M. **Z Orthop** 1989 Jul-Aug;127(4):471-3 (Eng. Abstr.) **(Ger)**

[The incidence of disorders of wound healing (results of the German Society of Orthopedics and Traumatology study)] Härle A. **Z Orthop** 1989 Jul-Aug;127(4):476-80 (Eng. Abstr.) **(Ger)**

[Information data on the incidence of nosocomial infections in Hungary] Páll G, et al. **Orv Hetil** 1990 Jul 1; 131(26):1411-4 (Eng. Abstr.) **(Hun)**

[Microbiological control of hospital infections] Gallo IA, et al. **Ann Ig** 1989 May-Aug;1(3-4):761-7 (Eng. Abstr.) **(Ita)**

[Hospital epidemic of Clostridium difficile diarrhea: demonstration of cross-infection using a typing technic] Cerquetti M, et al. **Ann Ist Super Sanita** 1989;25(2):327-32 (Eng. Abstr.) **(Ita)**

[Enterobacter cloacae infections at the Regional Hospital in Tromsø] Andersen BM, et al. **Tidsskr Nor Laegeforen** 1990 Jan 30;110(3):342-7 (Eng. Abstr.) **(Nor)**

[Hospital infections] Lingaas E. **Tidsskr Nor Laegeforen** 1990 Jan 30;110(3):322-3 **(Nor)**

[Hospital infection at a private hospital in Ribeirão Preto, São Paulo, Brazil] Ziliotto Júnior A, et al. **AMB Rev Assoc Med Bras** 1989 Jan-Feb;35(1):29-33 (Eng. Abstr.) **(Por)**

[An episode of hospital infection due to Klebsiella pneumoniae in a neonatal department] Paraschivescu I, et al. **Rev Ig [Bacteriol]** 1989 Oct-Dec;34(4):313-24 (Eng. Abstr.) **(Rum)**

[An intrahospital outbreak of HIV infection in Elista] Pokrovskiĭ VV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr;(4):17-23 (Eng. Abstr.) **(Rus)**

[Outbreak of respiratory syncytial virus in a neonatal unit] García Pérez A, et al. **An Esp Pediatr** 1989 Jun;30(6):480-2 (Eng. Abstr.) **(Spa)**

[Measuring hospital infection] Delgado Rodríguez M, et al. **Med Clin (Barc)** 1990 Feb 24;94(7):271-4 (10 ref.) **(Spa)**

[Incidence of Cryptosporidium sp in patients treated in a general hospital. Technics for the identification of oocysts in feces] García-Rodríguez JA, et al. **Med Clin (Barc)** 1989 Jul 1;93(5):164-8 (Eng. Abstr.) **(Spa)**

[The incidence of nosocomial infection] Prat Marín A, et al. **Rev Sanid Hig Publica (Madr)** 1988 Sep-Dec; 62(9-12):1765-74 (Eng. Abstr.) **(Spa)**

[Nosocomial pneumonia caused by Legionella pneumophila at Sagunto Hospital. Epidemiology and preventive measures] Uriel Latorre B, et al. **Rev Sanid Hig Publica (Madr)** 1988 May-Aug; 62(5-8):1459-68 **(Spa)**

[Evaluation of a program for monitoring of nosocomial infections] García-García ML, et al. **Salud Publica Mex** 1989 Jul-Aug;31(4):481-92 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Infective endocarditis in black South African children: report of 10 cases with some unusual features. Berkowitz FE, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):787-91

ETIOLOGY

Coagulase-negative staphylococci: interplay of epidemiology and bench research. Goldmann DA. **Am J Infect Control** 1990 Jun;18(3):211-21

Risk factors for nosocomial candidemia: a case-control study in adults without leukemia. Bross J, et al. **Am J Med** 1989 Dec;87(6):614-20

Incidence, risk, and prognosis factors of nosocomial pneumonia in mechanically ventilated patients. Torres A, et al. **Am Rev Respir Dis** 1990 Sep;142(3):523-8

Interleukin-2 therapy, central venous catheters, and nosocomial sepsis [letter; comment] Shiloni E, et al. **Ann Intern Med** 1990 Jun 1;112(11):882-3 Comment on: Ann Intern Med 1990 Jan 15;112(2):102-7.

Nosocomial sepsis associated with interleukin-2 [see comments] Snydman DR, et al. **Ann Intern Med** 1990 Jan 15;112(2):102-7 Comment in: Ann Intern Med 1990 Jun 1;112(11):882-3.

A discrete-time model of the acquisition of antibiotic-resistant infections in hospitalized patients. Garber AM. **Biometrics** 1989 Sep;45(3):797-816

Risk of cross-infection related to the multiple use of disposable syringes. Trépanier CA, et al. **Can J Anaesth** 1990 Mar;37(2):156-9

Hospital infections caused by a group of recently recognized strains of Staphylococcus aureus. Duncan IB, et al. **Can Med Assoc J** 1966 Apr 23;94(17):879-85

Nosocomial sinusitis in pediatric intensive care patients [letter] Guerin JM, et al. **Crit Care Med** 1990 Aug;18(8):902

Excretion of Yersinia spp. associated with consumption of pasteurized milk. Greenwood MH, et al. **Epidemiol Infect** 1990 Jun;104(3):345-50

Clinical manifestations of enterococcal infection. Lewis CM, et al. **Eur J Clin Microbiol Infect Dis** 1990 Feb;9(2):111-7 (47 ref.)

Two possibly related cases of Mycobacterium fortuitum peritonitis associated with continuous ambulatory peritoneal dialysis. Soriano F, et al. **Eur J Clin Microbiol Infect Dis** 1989 Oct;8(10):895-7

Intracranial pressure monitoring: review of risk factors associated with infection. Hickman KM, et al. **Heart Lung** 1990 Jan;19(1):84-90 (43 ref.)

Risk factors for Clostridium difficile toxin-associated diarrhea. Brown E, et al. **Infect Control Hosp Epidemiol** 1990 Jun;11(6):283-90

Investigation of a Streptococcus viridans pseudobacteremia epidemic at a university teaching hospital. Church DL, et al. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):416-21

Strategies for the management of varicella-susceptible healthcare workers after a known exposure. Josephson A, et al. **Infect Control Hosp Epidemiol** 1990 Jun;11(6):309-13

Enteral nutrition: an increasingly recognized cause of nosocomial bloodstream infection. Levy J. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):395-7

Nosocomial outbreak of systemic candidosis associated with parenteral nutrition. Moro ML, et al. **Infect Control Hosp Epidemiol** 1990 Jan;11(1):27-35

Interaction of granulocytopenia and construction activity as risk factors for nosocomial invasive filamentous fungal disease in patients with hematologic disorders. Weber SF, et al. **Infect Control Hosp Epidemiol** 1990 May;11(5):235-42

Nosocomial pneumonia in the intubated patient. New concepts on pathogenesis and prevention. Craven DE, et al. **Infect Dis Clin North Am** 1989 Dec;3(4):843-66 (103 ref.)

Unusual nosocomial pathogens. Mayer KH, et al. **Infect Dis Clin North Am** 1989 Dec;3(4):883-99 (116 ref.)

Glove punctures in an orthopaedic trauma unit. Eckersley JR, et al. **Injury** 1990 May;21(3):177-8

Gastric pH and colonisation in sucralfate treated patients [letter] Winter R, et al. **Intensive Care Med** 1989;15(7):479

Risk factors of nosocomial bacteremia associated with pulmonary artery catheters in a critical care unit. Glowacki M, et al. **J Am Osteopath Assoc** 1990 Jun;90(6):509-14

Frozen musculoskeletal allografts. A study of the clinical incidence and causes of infection associated with their use. Tomford WW, et al. **J Bone Joint Surg [Am]** 1990 Sep; 72(8):1137-43

Ocular infection caused by Psychrobacter immobilis acquired in the hospital. Gini GA. **J Clin Microbiol** 1990 Feb; 28(2):400-1

An outbreak of Acinetobacter respiratory tract infection resulting from incomplete disinfection of ventilatory equipment. Cefai C, et al. **J Hosp Infect** 1990 Feb; 15(2):177-82

Serious infections with Streptococcus agalactiae in adults: how often is it a nosocomial infection? [letter] Dessau RB. **J Hosp Infect** 1989 Oct;14(3):269-71

Enteral hyperalimentation as a source of nosocomial infection. Thurn J, et al. **J Hosp Infect** 1990 Apr; 15(3):203-17

Clinically significant central venous catheter infections in a community hospital: association with type of dressing [letter; comment] Dickerson N, et al. **J Infect Dis** 1989 Oct;160(4):720-2 Comment on: J Infect Dis 1989 Feb;159(2):310-9.

Patient-to-patient transmission of Campylobacter pylori infection by fiberoptic gastroduodenoscopy and biopsy. Langenberg W, et al. **J Infect Dis** 1990 Mar;161(3):507-11

A retrospective cohort study of nosocomial diarrhea as a risk factor for nosocomial infection. Lima NL, et al. **J Infect Dis** 1990 May;161(5):948-52

Association of shower use with Legionnaires' disease. Possible role of amoebae. Breiman RF, et al. **JAMA** 1990 Jun 6;263(21):2924-6

Nosocomial septicemia in the cancer patient: the influence of central venous access devices, neutropenia, and type of malignancy. Morrison VA, et al. **Med Pediatr Oncol** 1990; 18(3):209-16

Septicemia due to Xanthomonas species and non-aeruginosa Pseudomonas species: increasing incidence of catheter-related infections. Elting LS, et al. **Medicine (Baltimore)** 1990 Sep;69(5):296-306

Possible transmission of human immunodeficiency virus to a patient during an invasive dental procedure. **MMWR** 1990 Jul 27;39(29):489-93

Association of intravenous lipid emulsion and coagulase-negative staphylococcal bacteremia in neonatal intensive care units [see comments] Freeman J, et al. **N Engl J Med** 1990 Aug 2;323(5):301-8 Comment in: N Engl J Med 1990 Aug 2;323(5):339-40.

A nosocomial outbreak of Salmonella enteritidis infection due to the consumption of raw eggs. Telzak EE, et al. **N Engl J Med** 1990 Aug 9;323(6):394-7

Nosocomial bacteremia caused by Enterobacter sakazakiki and Leuconostoc mesenteroides resulting from extrinsic contamination of infant formula. Noriega FR, et al. **Pediatr Infect Dis J** 1990 Jun;9(6):447-9

Nosocomial infection with Legionella pneumophila serogroup 1 and 8 in a neonate. Aubert G, et al. **Scand J Infect Dis** 1990;22(3):367-70

Catheter induced urethral inflammatory reaction and urinary tract infection. An experimental and clinical study. Liedberg H. **Scand J Urol Nephrol Suppl** 1989;124:1-43

Ants: potential mechanical vectors of hospital infections in Trinidad. Chadee DD, et al. **Trans R Soc Trop Med Hyg** 1990 Mar-Apr;84(2):297

Molecular epidemiology of Pseudomonas aeruginosa—urinary tract infections in paraplegic patients. Worlitzsch D, et al. **Zentralbl Hyg Umweltmed** 1989 Nov; 189(2):175-84

[Latent risk and precautions against cross infection at the respiratory disease unit] Yu GH. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Apr; 12(2):82-5, 126 (Eng. Abstr.) **(Chi)**

[Nosocomial pulmonary infections caused by Branhamella catarrhalis in intensive care units] Denamur E, et al. **Agressologie** 1989 May;30(5):251-3 (Eng. Abstr.) **(Fre)**

[Microbiological aspects of nosocomial risks of suction bottles] Vassal S, et al. **Ann Chir** 1989;43(6):465-8 (Eng. Abstr.) **(Fre)**

[Nosocomial legionellosis in newborn infants (letter)] Rayet I, et al. **Arch Fr Pediatr** 1990 Jun-Jul;47(6):469 **(Fre)**

[In vitro bactericidal effect of a piperacillin-pefloxacin combination against isolated strains of nosocomial pneumopathies in intensive care] Simeon De Buochberg M, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):517-22 (Eng. Abstr.) **(Fre)**

[Role of invasive technics in the unexpected occurrence of nosocomial infections at intensive care units (letter)] Lecoutour X, et al. **Presse Med** 1990 Feb 24;19(7):338 **(Fre)**

[Nosocomial puerperal infections following vaginal delivery: pathogenesis, prevention] Bichler A, et al. **Gynakol Rundsch** 1989;29 Suppl 2:163-5 **(Ger)**

[Pneumonia—clinical aspects and therapy] Castillo-Höfer C, et al. **Internist (Berl)** 1990 Apr;31(4):255-61 (64 ref.) **(Ger)**

[The incidence of nosocomial infections in preventive administration of H2 receptor antagonists in neurology] Berlit P, et al. **Nervenarzt** 1989 Nov;60(11):710-2 **(Ger)**

[Serologic studies in the diagnosis of pneumonia] Schmitz KF, et al. **Pneumologie** 1990 Feb;44 Suppl 1:178-9 (Eng. Abstr.) **(Ger)**

[Nosocomial infections of the respiratory tract] Russi EW. **Ther Umsch** 1990 Jul;47(7):539-45 (18 ref.) (Eng. Abstr.) **(Ger)**

[Other nosocomial infections] Stücker R, et al. **Z Orthop** 1989 Jul-Aug;127(4):481-3 (Eng. Abstr.) **(Ger)**

[Nosocomial infections and sternum osteomyelitis] Warnke H, et al. **Zentralbl Chir** 1990;115(9):563-8 (Eng. Abstr.) **(Ger)**

[Role of Staphylococcus epidermidis in the etiology of septicemia in newborn infants] Galczak W, et al. **Pediatr Pol** 1989 May;64(5):304-9 (Eng. Abstr.) **(Pol)**

[Acquired immunodeficiency syndrome (AIDS) and kidney diseases] Siciński A. **Pol Arch Med Wewn** 1988 Oct; 80(4):234-40 (Eng. Abstr.) **(Pol)**

[Intravenous catheters (venflons) in children as a possible cause of hospital infections] Rudkowski Z, et al. **Przegl Epidemiol** 1989;43(2):213-7 (Eng. Abstr.) **(Pol)**

[Infectious complications and their antibacterial treatment at an oncology clinic] Smolianskaia AZ. **Antibiot Khimioter** 1990 Mar;35(3):42-7 (70 ref.) **(Rus)**

[The health of newborn infants as a microbiological problem] Belokrysenko SS. **Pediatriia** 1990;(1):8-13 (Eng. Abstr.) **(Rus)**

[Surgical problems of AIDS] Aganov VV, et al. **Vestn Khir** 1989 Aug;144(8):130-3 (Eng. Abstr.) **(Rus)**

[Why do patients in intensive care get fever? Infection specialists should undertake studies] Arneborn P, et al. **Lakartidningen** 1990 Jul 11;87(28-29):2345-7 (Eng. Abstr.) **(Swe)**

HISTORY

Personal reflections on nosocomial staphylococcal infections and the development of hospital surveillance [published erratum appears in Rev Infect Dis 1990 Mar-Apr;12(2):373] Wise RI, et al. **Rev Infect Dis** 1989 Nov-Dec;11(6):1005-19

IMMUNOLOGY

Erythromycin resistance in Danish Staphylococcus aureus hospital strains with emphasis on erythromycin consumption. Westh H, et al. **APMIS** 1989 Dec; 97(12):1121-4

Human monoclonal antibodies to Pseudomonas aeruginosa type-specific lipopolysaccharides, toxin A and Klebsiella capsular polysaccharides. Lang AB, et al. **Dev Biol Stand** 1990;71:121-6

[Simple references of the differential blood picture in assessing the immune status of immunologically compromised severely injured patients] Holch M, et al. **Helv Chir Acta** 1990 Apr;56(6):947-50 (Eng. Abstr.) **(Ger)**

[Phagocytosis of Staphylococcus aureus and Pseudomonas aeruginosa by pulmonary neutrophilic granulocytes] Hürter T, et al. **Pneumologie** 1990 Feb;44 Suppl 1:524-5 (Eng. Abstr.) **(Ger)**

[Seroconversion of hepatitis B markers in exposed health service workers after 1 year] Lisowska B. **Przegl Epidemiol** 1989;43(3):309-14 (Eng. Abstr.) **(Pol)**

METABOLISM

Persistent elastase/proteinase inhibitor imbalance during prolonged ventilation of infants with bronchopulmonary dysplasia: evidence for the role of nosocomial infections. Walti H, et al. **Pediatr Res** 1989 Oct;26(4):351–5

MICROBIOLOGY

Colonization of infants exposed to bacterially contaminated mists. Moffett HL, et al. **Am J Dis Child** 1967 Jul; 114(1):21–5

Ciprofloxacin–resistant methicillin–resistant Staphylococcus aureus in New York health care facilities, 1988. The New York MRSA Study Group. Budnick LD, et al. **Am J Public Health** 1990 Jul;80(7):810–3

An epidemic of Vibrio cholerae el tor Inaba resistant to several antibiotics with a conjugative group C plasmid coding for type II dihydrofolate reductase in Thailand. Tabtieng R, et al. **Am J Trop Med Hyg** 1989 Dec; 41(6):680–6

Cross–infection with Pseudomonas aeruginosa in Danish cystic fibrosis patients. Høiby N, et al. **Antibiot Chemother** 1989;42:124–9

Patterns and mechanisms of beta–lactam resistance among isolates of Escherichia coli from hospitals in the United States. Cooksey R, et al. **Antimicrob Agents Chemother** 1990 May;34(5):739–45

Antimicrobial susceptibility in gram–negative bacteremia: are nosocomial isolates really more resistant? McGowan JE Jr, et al. **Antimicrob Agents Chemother** 1989 Nov; 33(11):1855–9

Nucleotide sequence of the aacC2 gene, a gentamicin resistance determinant involved in a hospital epidemic of multiply resistant members of the family Enterobacteriaceae. Vliegenthart JS, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1153–9

Analysis of infection in a burn ward. Husain MT, et al. **Burns** 1989 Oct;15(5):299–302

Pathogenesis of colonization and infection in a neonatal surgical unit. Leonard EM, et al. **Crit Care Med** 1990 Mar; 18(3):264–9

Monitoring antimicrobial drug resistance in hospital microorganisms. Definition of problems and methods. Møller JK. **Dan Med Bull** 1990 Jun;37(3):263–74 (167 ref.)

Aetiology of diarrhoea in pre–term neonates at Kenyatta National Hospital nursery, Nairobi, Kenya. Mutanda LN, et al. **East Afr Med J** 1990 Apr;67(4):223–30

Plasmid—mediated drug resistance in enterobacteriaceae isolated at Gondar Hospital. Tirunch M. **East Afr Med J** 1990 Apr;67(4):260–3

Evaluation of numerical analysis of SDS–PAGE of protein patterns for typing Enterobacter cloacae. Costas M, et al. **Epidemiol Infect** 1989 Oct;103(2):265–74

Comparison of SDS–PAGE protein patterns with other typing methods for investigating the epidemiology of 'Klebsiella aerogenes'. Costas M, et al. **Epidemiol Infect** 1990 Jun;104(3):455–65

Investigation of a pseudo–outbreak of 'Pseudomonas thomasii' in a special–care baby unit by numerical analysis of SDS–PAGE protein patterns. Costas M, et al. **Epidemiol Infect** 1990 Aug;105(1):127–37

Esterase electrophoresis: a molecular tool for studying the epidemiology of Branhamella catarrhalis nosocomial infection. Picard B, et al. **Epidemiol Infect** 1989 Dec; 103(3):547–54

Drug–resistant coagulase–negative skin staphylococci. Evaluation of four marker systems and epidemiology in an orthopaedic ward. Thore M, et al. **Epidemiol Infect** 1990 Aug;105(1):95–105

Septicemia and endocarditis caused by group G streptococci in a Norwegian hospital. Bucher A, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):251–6

Comparative in vitro activity of the new quinolone sparfloxacin (CI–978, AT–4140) against nosocomial gram–negative bloodstream isolates. Doebbeling BN, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):298–301

Isolation of non–typable, ampicillin and chloramphenicol resistant Haemophilus influenzae in a South African hospital [letter] Heney C, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):56–7

The germ–spectrum problem and antibiotic–resistance in Bida and Minna hospitals—Nigeria. Sixl W, et al. **Geogr Med Suppl** 1989;5:135–44

Anaerobic bacteremia in the elderly. Terpenning MS. **Gerontology** 1989;35(2–3):130–6

Methicillin–resistant Staphylococcus aureus in nosocomial infections in the surgical ward and operating room. Takesue Y, et al. **Hiroshima J Med Sci** 1989 Dec;38(4):183–6

Nosocomial infection caused by Xanthomonas maltophilia: a case–control study of predisposing factors. Elting LS, et al. **Infect Control Hosp Epidemiol** 1990 Mar;11(3):134–8

Nosocomial group B streptococcal infections. Klein NC, et al. **Infect Control Hosp Epidemiol** 1989 Oct;10(10):475–9 (40 ref.)

Enterobacter sakazakii infections in neonates associated with intrinsic contamination of a powdered infant formula. Simmons BP, et al. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):398–401

Pseudomonas aeruginosa revisited. Stratton CW. **Infect Control Hosp Epidemiol** 1990 Feb;11(2):101–4 (43 ref.)

Methicillin–resistant Staphylococcus aureus. Detection, epidemiology, and control measures. Boyce JM. **Infect Dis Clin North Am** 1989 Dec;3(4):901–13 (53 ref.)

Coagulase–negative staphylococci. Epidemiology, evaluation, and therapy. Nafziger DA, et al. **Infect Dis Clin North Am** 1989 Dec;3(4):915–29 (60 ref.)

In vitro activity of cefpirome compared with other third generation cephalosporins against nosocomial isolates in Argentina. Casellas JM, et al. **Infection** 1990 May–Jun; 18(3):193–5

Nosocomial and endemic infections with a genome type of adenovirus type 5. Adrian T, et al. **Int J Med Microbiol** 1989 Sep;271(3):339–44

A comparative assay of epidemiological markers for Acinetobacter strains isolated in a hospital. Giammanco A, et al. **Int J Med Microbiol** 1989 Dec;272(2):231–41

Serotyping of clinical isolates of Acinetobacter: serovars of genospecies 3. Traub WH. **Int J Med Microbiol** 1990 May; 273(1):12–23

Mycobacterium avium–intracellulare in clinical specimens: etiological factor or contaminant? Lavy A, et al. **Isr J Med Sci** 1990 Jul;26(7):374–8

Molecular epidemiology of nosocomial, multiply aminoglycoside resistant Enterococcus faecalis. Weems JJ Jr, et al. **J Antimicrob Chemother** 1989 Aug;24(2):121–30

Lincomycin resistance in methicillin–resistant Staphylococcus aureus strains of hospital origin. Spiliopoulou I, et al. **J Chemother** 1989 Dec;1(6):377–83

Nontypeable bacteriophage patterns of methicillin–resistant Staphylococcus aureus involved in a hospital outbreak. Khalifa KI, et al. **J Clin Microbiol** 1989 Oct;27(10):2249–51

Use of plasmid analysis and determination of aminoglycoside–modifying enzymes to characterize isolates from an outbreak of methicillin–resistant Staphylococcus aureus. Licitra CM, et al. **J Clin Microbiol** 1989 Nov; 27(11):2535–8

Typing and nosocomial candidiasis [letter; comment] Maffei C, et al. **J Clin Microbiol** 1990 May;28(5):1086–7 Comment on: J Clin Microbiol 1989 Nov;27(11):2426–8.

Salmonella newport isolations from a general hospital in Pune. Dravid M, et al. **J Commun Dis** 1989 Jun;21(2):133–6

Antibiotic resistance among gram–negative bacilli in 19 Greek hospitals. **J Hosp Infect** 1989 Aug;14(2):177–81

Genetic heterogeneity in methicillin–resistant strains of Staphylococcus aureus revealed by esterase electrophoretic polymorphism. Branger C, et al. **J Hosp Infect** 1989 Aug; 14(2):125–34

The emergence of bacterial resistance in hospitals—a need for continuous surveillance. Brown EH, et al. **J Hosp Infect** 1990 Apr;15 Suppl A:35–9

Nosocomial Serratia marcescens individualized by five typing methods in a regional hospital. Larose P, et al. **J Hosp Infect** 1990 Feb;15(2):167–72

Micrococcus and Stomatococcus spp. from human infections. Magee JT, et al. **J Hosp Infect** 1990 Jul;16(1):67–73

The survival of Acinetobacter calcoaceticus inoculated on fingertips and on formica. Musa EK, et al. **J Hosp Infect** 1990 Apr;15(3):219–27

Development of erythromycin–resistance in Staphylococcus aureus as a consequence of high erythromycin consumption. Westh H, et al. **J Hosp Infect** 1989 Aug; 14(2):107–15

Characterization of a widespread strain of methicillin–susceptible Staphylococcus aureus associated with nosocomial infections. McMurray LW, et al. **J Infect Dis** 1990 Sep;162(3):759–62

Epidemiological typing of Streptococcus pyogenes by pyrolysis mass spectrometry. Magee JT, et al. **J Med Microbiol** 1989 Dec;30(4):273–8

Microbiological monitoring of enteral nutrient solutions needed [letter] Fagerman KE. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):670

Xanthomonas maltophilia: an emerging nosocomial pathogen. Marshall WF, et al. **Mayo Clin Proc** 1989 Sep; 64(9):1097–104 (55 ref.)

Characterization of an hospital disseminated plasmid encoding resistance to gentamicin and other antimicrobial agents. Rivera MJ, et al. **Microbiologia** 1988 Feb;4(1):55–9

Methicillin resistant Staphylococcus aureus in Waitakere Hospital, Auckland [letter] Morris A, et al. **N Z Med J** 1990 Jun 13;103(891):282

Cell surface hydrophobicity of 88 clinical strains of Acinetobacter baumannii. Boujaafar N, et al. **Res Microbiol** 1990 May;141(4):477–82

Bacteremia due to Staphylococcus epidermidis: microbiologic, epidemiologic, clinical, and prognostic features. Fidalgo S, et al. **Rev Infect Dis** 1990 May–Jun; 12(3):520–8

Infections caused by Moraxella, Moraxella urethralis, Moraxella–like groups M–5 and M–6, and Kingella kingae in the United States, 1953–1980. Graham DR, et al. **Rev Infect Dis** 1990 May–Jun;12(3):423–31

High–level gentamicin resistance in Enterococcus: microbiology, genetic basis, and epidemiology. Patterson JE, et al. **Rev Infect Dis** 1990 Jul–Aug;12(4):644–52 (82 ref.)

Antibiotic susceptibility and phage–type pattern of Staphylococcus aureus strains isolated from patients in general practice compared to strains from hospitalized patients. Rosdahl VT, et al. **Scand J Infect Dis** 1990; 22(3):315–20

Nosocomial viral respiratory infections. Graman PS, et al. **Semin Respir Infect** 1989 Dec;4(4):253–60 (48 ref.)

Branhamella catarrhalis pneumonia with bacteremia. Choo PW, et al. **South Med J** 1989 Oct;82(10):1317–8

[Bacteriologic study of lung infection in 47 cases of burns] Cui DJ. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1990 Apr;13(2):95–8, 127 (Eng. Abstr.) (Chi)

[Serratia marcescens infections in a hospital: typing of isolated strains] Yde M. **Arch Belg** 1989;47(5–6):189–210 (Eng. Abstr.) (Dut)

[Spread and control of a methicillin–resistant Staphylococcus aureus in an academic hospital] Frénay HM, et al. **Ned Tijdschr Geneeskd** 1990 Jun 16;134(24):1169–73 (Eng. Abstr.) (Dut)

[The role of the bacteriology laboratory in the epidemiologic study of nosocomial infections] Eb F. **Agressologie** 1989 May;30(5):279–81 (Eng. Abstr.) (Fre)

[A review of four cases of Branhamella catarrhalis bacteremia in children] Challier P, et al. **Ann Pediatr (Paris)** 1990 Jan; 37(1):44–7 (Eng. Abstr.) (Fre)

[Nosocomial infection at a neonatal care unit] Lenoir S, et al. **Arch Fr Pediatr** 1989 Dec;46(10):717–21 (Eng. Abstr.) (Fre)

[Nosocomial Legionnaires' disease in children. Preventive measures] Nègre V, et al. **Arch Fr Pediatr** 1990 Jan; 47(1):43–5 (Eng. Abstr.) (Fre)

[In vitro effect of antibiotics against hospital strains of Acinetobacter baumanii] Hercouet H, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):612–6 (Eng. Abstr.) (Fre)

[In vitro activity of imipenem against hospital bacteria] Soussy CJ, et al. **Presse Med** 1990 Apr 4;19(13):583–7 (Eng. Abstr.) (Fre)

[Pathogen spectrum and pathways of infection at an intensive care burn unit] Kistler D, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):216–21 (Eng. Abstr.) (Ger)

[Effect of stress ulcer prevention on the incidence of ventilation pneumonia at a pulmologic intensive care unit] Wallner G, et al. **Pneumologie** 1989 Nov;43(11):665–8 (Eng. Abstr.) (Ger)

[Survival of microorganisms on surfaces in relation to moisture and temperature and the effect of desiccation of microorganisms on resistance to disinfectants] Krzywicka H, et al. **Z Gesamte Hyg** 1990 Feb;36(2):90–1 (Eng. Abstr.) (Ger)

[Significance of plasmid virulence factors for transmission of nosocomial infection] Lebek G. **Z Gesamte Hyg** 1990 Feb;36(2):92–4 (0 ref.) (Eng. Abstr.) (Ger)

[The German Society of Orthopedics and Traumatology study: pathogen spectrum and resistance status] Nowak ME, et al. **Z Orthop** 1989 Jul–Aug;127(4):484–7 (Eng. Abstr.) (Ger)

[Postoperative wound infections in surgery of stomach cancer. A bacteriologic analysis] Widow VW, et al. **Zentralbl Chir** 1989;114(18):1224–30 (Eng. Abstr.) (Ger)

[Bacteriologic monitoring in a surgical department with emergency services. Epidemiologic analysis and study of sensitivity to antibiotic therapy] Risaliti A, et al. **Minerva Chir** 1989 Oct 31;44(20):2191–6 (Eng. Abstr.) (Ita)

[Hospital and district differences in susceptibilities to antibiotics of main clinical isolates] Igari J, et al. **Jpn J Antibiot** 1990 Feb;43(2):362–73 (Eng. Abstr.) (Jpn)

[In vitro susceptibility to a new antimicrobial agent (imipenem) of pathogens isolated from inpatients at various centers] de Godoy CV, et al. **Rev Inst Med Trop Sao Paulo** 1989 May–Jun;31(3):169–76 (Eng. Abstr.) (Por)

[Analysis of plasmid profile of antibiotic–resistant Enterobacteriaceae circulating in hospitals] Dombrovskiĭ AM. **Antibiot Khimioter** 1990 Apr;35(4):28–32 (Eng. Abstr.) (Rus)

[Antibiotic resistance of Shigella isolated in the Kara–Kalpak A.S.S.R. 1987–1988] Shenderovich VA, et al. **Antibiot Khimioter** 1990 Jun;35(6):27–9 (Eng. Abstr.) (Rus)

[Contamination of antiseptics and disinfectants with microorganisms in urologic clinics and the evaluation of the degree of microbial sensitivity to these drugs] Zueva LP, et al. **Gig Sanit** 1989 Sep;(9):81–2 (Rus)

[Biological properties, serogroup affiliation and antibiotic sensitivity of hospital strains of Pseudomonas aeruginosa] Minukhin VV, et al. **Mikrobiol Zh** 1986 Sep–Oct;48(5):10–5 (Eng. Abstr.) (Rus)

MORTALITY

Hospital stay and mortality attributed to nosocomial enterococcal bacteremia: a controlled study. Landry SL, et al. **Am J Infect Control** 1989 Dec;17(6):323–9

[Effect of the place of birth on mortality and morbidity of the early form of group B streptococcal infection in newborn infants of normal weight] Beltinger C, et al. **Geburtshilfe Frauenheilkd** 1990 Jan;50(1):56–60 (Eng. Abstr.) (Ger)

[Surgical risk in preoperative general infections and/or immune deficiency] Heim C. **Ther Umsch** 1990 Jul; 47(7):546–53 (14 ref.) (Eng. Abstr.) (Ger)

PATHOLOGY

The pathogenic potency of rotaviruses [letter] Shelkovaya NG, et al. **Acta Virol (Praha)** 1989 Dec;33(6):588

Medical implications of nosocomial infection with Clostridium difficile. Eriksson S, et al. **Scand J Infect Dis** 1989;21(6):733–4

[Nosocomial legionellosis: study of 51 cases] Aguilar Bargalló X, et al. **Med Clin (Barc)** 1989 Jun 24;93(4):125–8 (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

[Nosocomial bacterial pneumopathies at intensive care units] Veyssier P. **Presse Med** 1990 Mar 3;19(8):354–6 (Fre)

PREVENTION & CONTROL

APHA adopts policy statements on abortion and on HIV safety precautions [news] **Am Fam Physician** 1989 Dec; 40(6):17–8

Gowning on a postpartum ward fails to decrease colonization in the newborn infant. Birenbaum HJ, et al. **Am J Dis Child** 1990 Sep;144(9):1031–3

Nosocomial infections in the pediatric patient: an update. Allen U, et al. **Am J Infect Control** 1990 Jun;18(3):176–93 (190 ref.)

Developing an integrated quality improvement program. Bennett G, et al. **Am J Infect Control** 1990 Apr;18(2):118–25

Handwashing practices in an intensive care unit: the effects of an educational program and its relationship to infection rates. Conly JM, et al. **Am J Infect Control** 1989 Dec; 17(6):330–9

A study of infection control training needs of medical students [letter] Cooper GS, et al. **Am J Infect Control** 1990 Apr;18(2):126–7

Role of the hospital AIDS coordinator. Geshan AE, et al. **Am J Infect Control** 1989 Oct;17(5):268–70

The infection control community's response to the Agenda for Change. Larson E. **Am J Infect Control** 1989 Oct; 17(5):241–3

Implementing and evaluating a system of generic infection precautions: body substance isolation. Lynch P, et al. **Am J Infect Control** 1990 Feb;18(1):1–12

The infection control practitioner: an action plan for the 1990s. McGowan JE Jr. **Am J Infect Control** 1990 Feb; 18(1):29–39

The OSHA inspection process: one hospital's experience. Mason CA. **Am J Infect Control** 1989 Dec;17(6):353–8

Perceptions and misconceptions regarding the Joint Commission's view of quality monitoring. Patterson CH. **Am J Infect Control** 1989 Oct;17(5):231–40

APIC guideline for selection and use of disinfectants. Rutala WA. **Am J Infect Control** 1990 Apr;18(2):99–117

National survey of infection control practitioners' educational needs. Turner JG, et al. **Am J Infect Control** 1990 Apr; 18(2):86–92

Prospective, controlled study of vinyl glove use to interrupt Clostridium difficile nosocomial transmission. Johnson S, et al. **Am J Med** 1990 Feb;88(2):137–40

Extend handwashing to the forearms? [letter; comment] Maley MP. **Am J Nurs** 1989 Nov;89(11):1437 Comment on: Am J Nurs 1989 Jul;89(7):934–9.

Dodging droplet nuclei. Reducing the probability of nosocomial tuberculosis transmission in the AIDS era [editorial] Nardell EA. **Am Rev Respir Dis** 1990 Sep; 142(3):501–3

Recommended practices. Surgical attire. **AORN J** 1990 Mar; 51(3):828, 830, 832 passim

Proposed recommended practices. Surgical scrubs. **AORN J** 1990 Jan;51(1):226–8, 230–4

AIDS and hepatitis B. Protection strategies. Hammond L. **Aust Fam Physician** 1990 May;19(5):657–60

HIV and measures to control infection in general practice. Foy C, et al. **BMJ** 1990 Apr 21;300(6731):1048–9

Decontamination of instruments and control of cross infection in general practice [published erratum appears in BMJ 1990 Jun 2;300(6737):1448] Morgan DR, et al. **BMJ** 1990 May 26;300(6736):1379–80

Crisis in our hospital kitchens [letter; comment] Murdoch S, et al. **BMJ** 1990 Mar 3;300(6724):612 Comment on: BMJ 1990 Feb 10;300(6721):383–5.

Cross infection control—a challenge for Europe [letter] Temple-Smithson PE. **Br Dent J** 1990 Jan 6;168(1):7

Infection control procedures among New Zealand general practitioners: changes since the emergence of HIV infection. Chetwynd J. **Br J Gen Pract** 1990 Mar; 40(332):109–11

Nosocomial Legionnaires' disease. Wang LS, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Oct;44(4):242–8

Selective decontamination of the gut—is it enough? [editorial; comment] Deitch EA. **Crit Care Med** 1990 Sep; 18(9):1043–4 Comment on: Crit Care Med 1990 Sep;18(9):935–9.

Selective decontamination in ventilated patients [letter] Inglis TJ, et al. **Crit Care Med** 1989 Nov;17(11):1236–7

Controversies in infection control. Molinari JA, et al. **Dent Clin North Am** 1990 Jan;34(1):55–69 (58 ref.)

Quality assessment. An emerging component of hospital epidemiology. Wenzel RP. **Diagn Microbiol Infect Dis** 1990 May–Jun;13(3):197–204 (45 ref.)

New infection control strategies in acute care. Birnbaum D, et al. **Dimens Health Serv** 1990 May;67(4):26–9

Refinements in the coating of urethral catheters reduces the incidence of catheter-associated bacteriuria. An experimental and clinical study. Liedberg H, et al. **Eur Urol** 1990;17(3):236–40

Vacuum regulators. **Health Devices** 1988 May;17(5):171

The risk of cross contamination. **Health Devices** 1989 Oct; 18(10):331–52

Infection control, decontamination, and the clinical engineer. **Health Devices** 1989 Oct;18(10):353–7

Latex examination and surgical gloves. **Health Devices** 1989 Oct;18(10):358–60

Infection control in patients undergoing mechanical ventilation: traditional approach versus a new development—selective decontamination of the digestive tract. Meijer K, et al. **Heart Lung** 1990 Jan;19(1):11–20 (113 ref.)

Hospitals try new infection control tactics. Moran EJ. **Hospitals** 1990 Sep 20;64(18):58

Infection control investment saves in the long run. Moran EJ. **Hospitals** 1990 Mar 5;64(5):58

Tuberculosis in long-term care facilities. Bentley DW. **Infect Control Hosp Epidemiol** 1990 Jan;11(1):42–6

AIDS and long-term care facilities. Bentley DW, et al. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):202–6

Surveillance for quality assessment: III. The critical assessment of quality indicators. Credé WB, et al. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):197–201

Criticism: a by-product of controlling infection. Davidhizar R, et al. **Infect Control Hosp Epidemiol** 1990 May; 11(5):263–5

Effectiveness of simple measures to control an outbreak of nosocomial methicillin-resistant Staphylococcus aureus infections in an intensive care unit. Guiguet M, et al. **Infect Control Hosp Epidemiol** 1990 Jan;11(1):23–6

Disinfection of water distribution systems for legionella: a review of application procedures and methodologies. Muraca PW, et al. **Infect Control Hosp Epidemiol** 1990 Feb; 11(2):79–88 (57 ref.)

Control of epidemic methicillin-resistant Staphylococcus aureus. Murray-Leisure KA, et al. **Infect Control Hosp Epidemiol** 1990 Jul;11(7):343–50

JCAHO inspections for tertiary care facilities [letter] Raucher B, et al. **Infect Control Hosp Epidemiol** 1990 May;11(5):226

Brief report: the utilization of influencing tactics for the implementation of infection control policies. Seto WH, et al. **Infect Control Hosp Epidemiol** 1990 Mar;11(3):144–50

Brief report: a scheme to review infection control guidelines for the purpose of implementation in the hospital. Seto WH, et al. **Infect Control Hosp Epidemiol** 1990 May;11(5):255–7

Infection control for home health. Simmons B, et al. **Infect Control Hosp Epidemiol** 1990 Jul;11(7):362–70

Nosocomial infections: new issues and strategies for prevention. **Infect Dis Clin North Am** 1989 Dec; 3(4):671–929

Changing trends in infection control and hospital epidemiology. Decker MD, et al. **Infect Dis Clin North Am** 1989 Dec;3(4):671–82 (13 ref.)

Prevention and management of neonatal infections. Goldmann DA. **Infect Dis Clin North Am** 1989 Dec; 3(4):779–813 (203 ref.)

Vaccines of importance in the hospital setting. Problems and developments. Williams WW, et al. **Infect Dis Clin North Am** 1989 Dec;3(4):701–22 (85 ref.)

Prevention of infection in intensive care. A satellite symposium of the 16th International Congress of Chemotherapy. 12 June 1989, Jerusalem. Proceedings. **Infection** 1990;18 Suppl 1:S1–30

The role of systemic antibiotic prophylaxis in infection prevention in intensive care by SDD. Stoutenbeek CP. **Infection** 1989 Nov–Dec;17(6):418–21

Infection prevention by selective decontamination in intensive care [editorial] Johanson WG. **Intensive Care Med** 1989;15(7):417–9

Selective decontamination of the digestive tract with norfloxacin in the prevention of ICU-acquired infections: a prospective randomized study. Ulrich C, et al. **Intensive Care Med** 1989;15(7):424–31

Infection control in the long-term-care nursing facility. Herbelin K. **J Am Diet Assoc** 1989 Dec;89(12):1808–9

Do dentists have sufficient information about their patients to control infection? Hazelkorn HM. **J Dent Educ** 1990 Feb;54(2):149–52

Hospital Infection Research Laboratory, Birmingham—25th anniversary. **J Hosp Infect** 1989 Nov;14(4):369–71

Selective decontamination of the digestive tract (SDD), ICU-acquired pneumonia and selection of antibiotic-resistant bacteria [letter; comment] Alcock SR, et al. **J Hosp Infect** 1990 Feb;15(2):195–7 Comment on: J Hosp Infect 1989 May;13(4):325–36.

The value of nasal mupirocin in containing an outbreak of methicillin-resistant Staphylococcus aureus in an orthopaedic unit. Barrett SP. **J Hosp Infect** 1990 Feb; 15(2):137–42

Living with EMRSA-1 [letter] Bignardi GE. **J Hosp Infect** 1990 Jul;16(1):87–8

Do gowns prevent infection in neonatal intensive care units? Haque KN, et al. **J Hosp Infect** 1989 Aug;14(2):159–62

Hepatitis B screening in a northern Irish mental handicap institution: relevance to hepatitis B vaccination. Kee F, et al. **J Hosp Infect** 1989 Oct;14(3):227–32

Nosocomial gastroenteritis in paediatric patients. Lam BC, et al. **J Hosp Infect** 1989 Nov;14(4):351–5

Hot-air hand driers. Meers PD, et al. **J Hosp Infect** 1989 Aug;14(2):169–71

Evaluation of staff compliance with 'influencing' tactics in relation to infection control policy implementation. Seto WH, et al. **J Hosp Infect** 1990 Feb;15(2):157–66

Acquired immune deficiency syndrome: recommendations of a Working Party of the Hospital Infection Society. Speller DC, et al. **J Hosp Infect** 1990 Jan;15(1):7–34

Reduction in Legionella pneumophila through heat flushing followed by continuous supplemental chlorination of hospital hot water. Snyder MB, et al. **J Infect Dis** 1990 Jul;162(1):127–32

A large outbreak of epidemic keratoconjunctivitis: problems in controlling nosocomial spread. Warren D, et al. **J Infect Dis** 1989 Dec;160(6):938–43

AIDS testing, an ethical question. Wold JL. **J Neurosci Nurs** 1990 Aug;22(4):258–61

Infection control programmed instruction: an alternative to classroom instruction in baccalaureate nursing education. Goldrick B, et al. **J Nurs Educ** 1990 Jan;29(1):20–5

Use of intravenously administered immune globulin to prevent nosocomial sepsis in low birth weight infants: report of a pilot study [see comments] Clapp DW, et al. **J Pediatr** 1989 Dec;115(6):973–8 Comment in: J Pediatr 1989 Dec;115(6):969–71.

Screening for respiratory syncytial virus and assignment to a cohort at admission to reduce nosocomial transmission. Krasinski K, et al. **J Pediatr** 1990 Jun;116(6):894–8

Intravenously administered immune globulin for premature infants: a time to wait [editorial; comment] Noya FJ, et al. **J Pediatr** 1989 Dec;115(6):969–71 Comment on: J Pediatr 1989 Dec;115(6):973–8. Comment on: J Pediatr 1989 Dec;115(6):1013–6.

Reducing AIDS anxiety on the unit with preventive infection control. Evans CL, et al. **J Psychosoc Nurs Ment Health Serv** 1990 Jan;28(1):36–9

Anti-HCV positive patients in dialysis units? [letter] **Lancet** 1990 Jul 28;336(8709):243–4

Passive oral immunisation of children [letter; comment] Boesman-Finkelstein M, et al. **Lancet** 1989 Dec 2; 2(8675):1336 Comment on: Lancet 1989 Sep 23;2(8665):709–12.

Repeated prevalence surveys for monitoring effectiveness of hospital infection control. French GL, et al. **Lancet** 1989 Oct 28;2(8670):1021–3

Screening hospital staff for antibodies to varicella-zoster virus [letter] Murray A, et al. **Lancet** 1990 Jul 21; 336(8708):192

Selective decontamination to reduce gram-negative colonisation and infections after oesophageal resection. Tetteroo GW, et al. **Lancet** 1990 Mar 24;335(8691):704–7

Hospital infection precautions: an evolving process. Lee PC, et al. **Med J Aust** 1990 Mar 19;152(6):315–6

Reduction of nosocomial infection during pediatric intensive care by protective isolation [letter; comment] Garibaldi RA. **N Engl J Med** 1990 Feb 22;322(8):553 Comment on: N Engl J Med 1989 Jun 29;320(26):1714–21.

OSHA reviews bloodborne disease standard [news] **Occup Health Saf** 1990 Mar;59(3):15, 17

AIDS: protecting both surgeon and patient [editorial] D'Ambrosia R. **Orthopedics** 1990 Jul;13(7):705

Evaluation of an intravenous immunoglobulin preparation for the prevention of viral infection among hospitalized low birth weight infants. Piedra PA, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):470–5

Limited effectiveness of triple dye in preventing colonization with methicillin-resistant Staphylococcus aureus in a special care nursery. Rosenfeld CR, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):290–1

Recent experience in the control and management of tuberculosis in a mental handicap hospital. Wiggins J, et al. **Respir Med** 1989 Jul;83(4):313–9

AIDS and the lung. 1—AIDS, aprons, and elbow grease: preventing the nosocomial spread of human immunodeficiency virus and associated organisms. Hanson PJ, et al. **Thorax** 1989 Oct;44(10):778–83 (45 ref.)

Hand protection and protection from hands: hand-washing, germicides and gloves. Borgatta L, et al. **Women Health** 1989;15(4):77–92

Successful hand hygiene in hospital. Mäkelä P. **Z Gesamte Hyg** 1990 Feb;36(2):80–1

[Ways to minimize the incidence of nosocomial infections] Bao B. **Chung Hua Hu Li Tsa Chih** 1990 Apr;25(4):163–5 (Chi)

[Disinfection of the apparatus for administering oxygen] Hu SQ. **Chung Hua Hu Li Tsa Chih** 1989 Jun;24(6):338–9 (Chi)

[Prevention of hepatitis B infection at nurseries] Liu X, et al. **Chung Hua Hu Li Tsa Chih** 1990 May;25(5):218–9 (Chi)

[Hospital disinfection work, problems and suggestions] Zhang H. **Chung Hua Hu Li Tsa Chih** 1990 Jun;25(6):257–60 (Chi)

[Analysis of the cause of virulent infection in the newborn and prophylaxis of the infection] Zhang NL, et al. **Chung Hua Hu Li Tsa Chih** 1989 Jun;24(6):333–4 (Chi)

[The progress in the research of disinfection and sterilization of the hepatitis B virus] Chen K, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Apr; 11(2):116–8 (33 ref.) (Chi)

[Disinfection, sterilization and a regimen for prevention of nosocomial infections] Bolek S. **Zdrav Aktual** 1984; 202:4–363 (Cze)

[Consensus prevention of hospital infections] Mouton RP. **Ned Tijdschr Geneeskd** 1990 Feb 3;134(5):231–5 (8 ref.) (Eng. Abstr.) (Dut)

[Clinical significance of selective decontamination in patients in the intensive care unit] van Dalen R, et al. **Ned Tijdschr Geneeskd** 1990 Jun 16;134(24):1165–8 (31 ref.) (Dut)

[Prevention of nosocomial infections at a cardiovascular surgery unit: therapeutic tactics, efficacy and results] Medelli-Gamain D, et al. **Agressologie** 1989 May; 30(5):255–6 (Eng. Abstr.) (Fre)

[Comparative study of 2 methods to determine the in vivo bactericidal activity of antiseptics] Chantefort A, et al. **Pathol Biol (Paris)** 1990 May;38(5):477–82 (Eng. Abstr.) (Fre)

[Selective decontamination of the intestine—a principle of infection prevention on its way to becoming an established method?] Stoutenbeek CP, et al. **Anasth Intensivther Notfallmed** 1989 Dec;24(6):321–2 (Ger)

[Selective flora suppression for control of infection in surgical intensive care medicine] Thülig B, et al. **Anasth Intensivther Notfallmed** 1989 Dec;24(6):345–54 (Eng. Abstr.) (Ger)

[Septic operating room? Comment on Professor Daschner's remarks] Hansis M, et al. **Chirurg** 1990 Jun;61(6):suppl 92–6 (Ger)

[Parenteral nutrition from the viewpoint of the hospital health officer] Daschner F, et al. **Infusionstherapie** 1989 Oct; 16(5):241–4 (16 ref.) (Eng. Abstr.) (Ger)

[General insecurity, "false" and "real" security: arguments for the routine study of hospital patients for anti-HIV] Bock KD, et al. **Klin Wochenschr** 1989 Aug 17;67(16):793–8 (16 ref.) (Eng. Abstr.) (Ger)

[Health deficiencies in removing refuse in hospitals and nursing homes] Bodenschatz W. **Off Gesundheitswes** 1989 Nov;51(11):725 (Ger)

[Performing surface and room disinfection in the hospital] Rehork B, et al. **Off Gesundheitswes** 1990 Jan;52(1):36–45 (Eng. Abstr.) (Ger)

[Public health-microbiological evaluation of housekeeping combinations for cleaning and disinfecting bed pans in the hospital] Rehork B, et al. **Off Gesundheitswes** 1989 Nov; 51(11):705–10 (Eng. Abstr.) (Ger)

[Opinion on the article "Performance of surface and room disinfection in the hospital" in "Das öffentliche Gesundheitswesen" 52(1990)36 (letter)] Würtheim. **Off Gesundheitswes** 1990 May;52(5):247 (Ger)

[Prevention of infection at the autopsy table: use of so-called "impenetrable" protective gloves] Huckenbeck W, et al. **Pathologe** 1990 May;11(3):192–4 (Ger)

[Occupationally-induced HIV infection in medical personnel] Grüner J. **Psychiatr Prax** 1990 Jul;17(4):160 (Ger)

[Odorless surface disinfection with peracetic acid] Mücke H, et al. **Z Arztl Fortbild (Jena)** 1989;83(22):1125–7 (Ger)

[Aspects of hospital hygiene in Legionella infections] Bösenberg H, et al. **Z Gesamte Hyg** 1990 Feb;36(2):102–4 (Eng. Abstr.) (Ger)

[Antisepsis of mucous membranes—current status and aspects of future development] Heeg P. **Z Gesamte Hyg** 1990 Feb; 36(2):83–6 (Eng. Abstr.) (Ger)

[Refuse disposal at the hospital] Knoll KH. **Z Gesamte Hyg** 1990 Feb;36(2):104–5 (Eng. Abstr.) (Ger)

[Hygiene regimen in neonatology] Menzel K. **Z Gesamte Hyg** 1990 Feb;36(2):99–101 (Eng. Abstr.) (Ger)

[Specialty specific reference values in linen use in public health and social service as a basis for determining laundry capacities] Rietdorf M, et al. **Z Gesamte Hyg** 1990 Jan; 36(1):35–7 (Eng. Abstr.) (Ger)

[Hospital hygiene measures in the care of cholera patients] Schiller WG, et al. **Z Gesamte Hyg** 1990 Mar;36(3):150–1 (Eng. Abstr.) (Ger)

[The antimicrobial effectiveness of hand antiseptics] Sokolowa NF, et al. **Z Gesamte Hyg** 1990 Feb;36(2):81–2 (Eng. Abstr.) (Ger)

[The significance of disinfection in preventing nosocomial infections] Ulewicz K, et al. **Z Gesamte Hyg** 1990 Feb; 36(2):91–2 (Eng. Abstr.) (Ger)

[Public health measures in AIDS] Möse JR, et al. **Z Hautkr** 1990 Jul;65(7):673–6 (Ger)

[Current problems of hospital health including the AIDS problem. "Protection of patients and staff—legal status"] Gallwas HU. **Z Orthop** 1989 Jul–Aug;127(4):503–5 (Eng. Abstr.) (Ger)

[Current problems of hospital health] Härle A. **Z Orthop** 1989 Jul–Aug;127(4):499–502 (Eng. Abstr.) (Ger)

[Documentation and quality control] Härle A. **Z Orthop** 1989 Jul–Aug;127(4):488–91 (Eng. Abstr.) (Ger)

[The importance of nosocomial infections for patients and socio-political representatives] Härle A. **Z Orthop** 1989 Jul–Aug;127(4):463–6 (Eng. Abstr.) (Ger)

[Control of infection using a screening system] Hemker T, et al. **Z Orthop** 1989 Jul–Aug;127(4):474–5 (Eng. Abstr.) (Ger)

[Prevention of infection: facts and myths] Kappstein I, et al. **Z Orthop** 1989 Jul–Aug;127(4):467–70 (11 ref.) (Eng. Abstr.) (Ger)

[Problems of laundry hygiene] Signorelli C, et al. **Ann Ig** 1989 Jan–Apr;1(1–2):81–6 (Eng. Abstr.) (Ita)

[Infection monitoring in orthopedics] Salassa B, et al. **Minerva Med** 1989 Oct;80(10):1091–6 (Eng. Abstr.) (Ita)

[Prevention and control of nosocomial infection caused by methicillin resistant Staphylococcus aureus in premature infant ward—prevention effect of "povidone iodine solution" wipe of neonatal skin] Aihara M, et al. **Kansenshogaku Zasshi** 1990 Apr;64(4):479–86 (Eng. Abstr.) (Jpn)

[Diagnosis and prevention of cross infection] Kitahara M. **Nippon Naika Gakkai Zasshi** 1990 Mar 10;79(3):304–6 (Jpn)

[Hospital infection and anti-bacterial agents—the role of anti-bacterial agents, refractoriness of hospital infections, and the need for regulation of antibiotic use for the prevention of cross infections] Kawana R. **Nippon Rinsho** 1988 Jul;46 Suppl:443–8 (Jpn)

[Nosocomial infections and clinical microbiology] Nakagomi O, et al. **Rinsho Byori** 1989 Nov;37(11):1231–7 (Eng. Abstr.) (Jpn)

[Nosocomial infections. Open letter to the Director of Public Health (letter)] Vebostad A. **Tidsskr Nor Laegeforen** 1990 May 10;110(12):1564 (Nor)

[Substantiation of complex measures in the prevention of bacterial infections in newborn infants] Chernyshova Li, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):75–8 (Rus)

[Current problems of medical microbiology at a non-infectious disease clinic] Smolianskaia AZ, et al. **Antibiot Khimioter** 1990 Jan;35(1):52–4 (Rus)

[Sanitary and microbiological control of health facilities] Vlodavets VV. **Gig Sanit** 1989 Jun;(6):50–3 (18 ref.) (Rus)

[Bacteriological control in the prevention of suppurative complications in surgery] Olelnik SV, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):104–6 (Rus)

[Use of the electrochemical set ELMA-1 for preparation of sodium hypochlorite solutions in therapeutic and preventive institutions] Iolrish AN, et al. **Med Tekh** 1990 Mar–Apr;(2):36–7 (Eng. Abstr.) (Rus)

[Possibilities of sterilization of medical equipment using ultrasonics combined with disinfectants and sterilizing agents] Ramkova NV, et al. **Med Tekh** 1989 Sep–Oct; (5):9–12 (Eng. Abstr.) (Rus)

[Relation between microbiological monitoring and the risk of hospital infection in obstetrical departments] Bašić F, et al. **Med Arh** 1989;43(1):31–6 (Eng. Abstr.) (Scr)

[The protective value of varicella-zoster immunoglobulin in the hospital environment] Puvačić Z, et al. **Med Arh** 1983; 37(3):139–42 (Eng. Abstr.) (Scr)

[Guidelines for the prevention of nosocomial pneumonia] Manzano JL, et al. **Med Clin (Barc)** 1989 Dec 9; 93(19):747–51 (55 ref.) (Spa)

[Nosocomial infection control programs at intensive care units (letter)] Rello J, et al. **Med Clin (Barc)** 1989 Nov 18;93(16):637–8 (Spa)

PSYCHOLOGY

AIDS: clinical and ethical issues on a psychiatric unit. Hoffman BF, et al. **Can J Psychiatry** 1989 Dec;34(9):847–52

Patient perception of cross-infection prevention in dentistry. Samaranayake LP, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):457–60

TRANSMISSION

Epidemic Norwegian scabies in a geriatric unit. Hopper AH, et al. **Age Ageing** 1990 Mar;19(2):125–7

Survival and dissemination of bacteria in nebulizers and incubators. Moffet HL, et al. **Am J Dis Child** 1967 Jul; 114(1):13–20

Uncontrolled nosocomial rotavirus transmission during a community outbreak. Raad II, et al. **Am J Infect Control** 1990 Feb;18(1):24–8

Mumps transmission in hospitals [see comments] Wharton M, et al. **Arch Intern Med** 1990 Jan;150(1):47–9 Comment in: Arch Intern Med 1990 Jan;150(1):25–6.

Transmission of virus particles by cryotherapy and multi-use caustic pencils: a problem to dermatologists? Jones SK, et al. **Br J Dermatol** 1989 Oct;121(4):481–6

Cockroaches as vectors of pathogenic bacteria. Fotedar R, et al. **J Commun Dis** 1989 Dec;21(4):318–22

An epidemiological study assessing the relative importance of airborne and direct contact transmission of microorganisms in a medical intensive care unit. Bauer TM, et al. **J Hosp Infect** 1990 May;15(4):301–9

Streptococcus pyogenes: an outbreak on a burns unit. Burnett IA, et al. **J Hosp Infect** 1990 Feb;15(2):173–6

Importation of methicillin-resistant Staphylococcus aureus from Baghdad to Dublin and subsequent nosocomial spread. Humphreys H, et al. **J Hosp Infect** 1990 Feb; 15(2):127–35

Cytomegalovirus infection in a neonatal intensive care unit. Subsequent morbidity and mortality of seropositive infants. Griffin MP, et al. **J Perinatol** 1990 Mar;10(1):43–5

Risk of Staphylococcus aureus transmission during ultrasound investigation. O'Doherty AJ, et al. **J Ultrasound Med** 1989 Nov;8(11):619–20

Cytomegalovirus infection among employees of a children's hospital. No evidence for increased risk associated with patient care. Balcarek KB, et al. **JAMA** 1990 Feb 9; 263(6):840–4

A surgeon with AIDS. Lack of evidence of transmission to patients [published erratum appears in JAMA 1990 Oct 3;264(13):1661] [see comments] Mishu B, et al. **JAMA** 1990 Jul 25;264(4):467–70 Comment in: JAMA 1990 Jul 25;264(4):507–8.

Varicella and zoster in hospitals [letter; comment] **Lancet** 1990 Jun 16;335(8703):1460–1 Comment on: Lancet 1990 May 5;335(8697):1100–1.

Clostridium difficile infection in health-care workers [letter; comment] Delmée M. **Lancet** 1989 Nov 4;2(8671):1095 Comment on: Lancet 1989 Oct 7;2(8667):866–7.

Nosocomial Clostridium difficile colonisation and disease. Johnson S, et al. **Lancet** 1990 Jul 14;336(8707):97–100

Clostridium difficile infection in health-care workers [letter] [see comments] Strimling MO, et al. **Lancet** 1989 Oct 7; 2(8667):866–7 Comment in: Lancet 1989 Nov 4;2(8671):1095.

Nosocomial transmission of hepatitis B virus associated with a spring-loaded fingerstick device—California. **MMWR** 1990 Sep 7;39(35):610–3

An outbreak of hepatitis B in an endocrinology unit traced to a capillary-blood-sampling device [letter] Douvin C, et al. **N Engl J Med** 1990 Jan 4;322(1):57–8

An outbreak of surgical-wound infections due to group A streptococcus carried on the scalp. Mastro TD, et al. **N Engl J Med** 1990 Oct 4;323(14):968–72

Tuberculosis in homeless, residential care facilities, prisons, nursing homes, and other close communities. Nardell EA. **Semin Respir Infect** 1989 Sep;4(3):206–15 (37 ref.)

Transfusion-acquired hepatitis A. Giacoia GP, et al. **South Med J** 1989 Nov;82(11):1357–60 (21 ref.)

[Risk and prevention of transmission of HIV in employees of health and nursing occupations] Füessl HS. **Off Gesundheitswes** 1989 Oct;51(10):621–5 (Eng. Abstr.) (Ger)

[Considerations on presenting expert opinions in public health] Bielau B, et al. **Z Gesamte Hyg** 1989 Jun; 35(6):379–82 (Eng. Abstr.) (Ger)

[Risks of wound infection caused by drainage] Brunner W, et al. **Z Orthop** 1989 Jul–Aug;127(4):510–2 (Eng. Abstr.) (Ger)

[Occupationally-induced risk of HIV infection in medical personnel] Frösner GG. **Z Orthop** 1989 Jul–Aug; 127(4):494–8 (29 ref.) (Eng. Abstr.) (Ger)

[Weaknesses of conventional drainage systems] Härle A. **Z Orthop** 1989 Jul–Aug;127(4):513–7 (Eng. Abstr.) (Ger)

[Bone transplantation and AIDS] Müller RT. **Z Orthop** 1989 Jul–Aug;127(4):527–9 (Eng. Abstr.) (Ger)

[Intestinal cryptosporidiosis: a case of hospital infection] Farías P, et al. **Rev Chil Pediatr** 1989 Jan–Feb;60(1):44–6 (Eng. Abstr.) (Spa)

VETERINARY

Epidemiologic study of salmonellae shedding in the feces of horses and potential risk factors for development of the infection in hospitalized horses. Traub-Dargatz JL, et al. **J Am Vet Med Assoc** 1990 May 15;196(10):1617–22

Antibiotic pressure and nosocomial disease. Murtaugh RJ, et al. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1259–74 (48 ref.)

CROSS-LINKING REAGENTS

Structures of three DNA cross-linking agents, ethane-1,2-di(methylsulfonate), propane-1,3-di(methylsulfonate) and n-butane-1,4-di(methylsulfonate). McKenna R, et al. **Acta Crystallogr C** 1989 Feb 15;45 (Pt 2):311–4

Structure of a potential cross-linking reagent: 2,2'-bis(methoxymethylene)-2,2'-sulfonyldiacetonitrile (MMSBA). Siriwardane U, et al. **Acta Crystallogr C** 1988 Jan 15;44 (Pt 1):104–7

Conformation of a troponin-I peptide bound to troponin-C as determined by 1H NMR. Campbell AP, et al. **Adv Exp Med Biol** 1989;255:195–204

Zero-length crosslinking procedure with the use of active esters. Grabarek Z, et al. **Anal Biochem** 1990 Feb 15; 185(1):131–5

Characterization of indo-1 and quin-2 as spectroscopic probes for Zn2(+)-protein interactions. Jefferson JR, et al. **Anal Biochem** 1990 Jun;187(2):328–36

Immobilization of proteins on oxidized crosslinked Sepharose preparations by reductive amination. Stults NL, et al. **Anal Biochem** 1989 Jul;180(1):114–9

Determination of epsilon (gamma-glutamyl)lysine crosslink in proteins using phenylisothiocyanate derivatization and high-pressure liquid chromatographic separation. Tarcsa E, et al. **Anal Biochem** 1990 Apr;186(1):135–40

N-methylmitomycin A cross-linking to nucleosomal structure. Cera C, et al. **Anticancer Drug Des** 1990 Feb; 5(1):55–8

Bacterial mutagenicity studies of DNA-intercalating aniline mustards: an insight into the mode of action of a novel class of anti-tumour drugs. Ferguson LR, et al. **Anticancer Drug Des** 1989 Oct;4(3):209–19

Collagen crosslinks and their relationship to the thermal properties of calf tendons. Horgan DJ, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):21–6

Characterization of the Ah receptor for 2,3,7,8-tetrachlorodibenzo-p-dioxin: use of chemical crosslinking and a monoclonal antibody directed against a 59-kDa protein associated with steroid receptors. Prokipcak RD, et al. **Arch Biochem Biophys** 1989 Nov 1; 274(2):648–58

Chemical crosslinking of proteins of the influenza virion. 1. Interrelationships. Dimmock NJ, et al. **Arch Virol** 1989; 108(3–4):169–82

Chemical cross-linking of proteins of the influenza virion. 2. Acid-induced irreversible conformational changes in HA1 and HA2. Dimmock NJ, et al. **Arch Virol** 1989; 108(3-4):183-90

A versatile, highly reactive, cross-linking reagent: 2,2'-sulfonylbis[3-methoxy-(E,E)-2-propenenitrile]. Hosmane RS, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):567-73

Transformation of glucocorticoid-receptor complexes is accompanied by dissociation of oligomers in intact cells. Rossini GP, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1210-5

Binding of low mobility group protein from rat liver chromatin with histones studied by chemical cross-linking. Wiland E, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):11-21

Mechanism of action of the nitrosoureas—IV. Synthesis of the 2-haloethylnitrosourea-induced DNA cross-link 1-(3-cytosinyl),2-(1-guanyl)ethane. MacFarland JG, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):33-6

Induction of DNA-protein crosslinks by antitumor 1-nitro-9-aminoacridines in L1210 leukemia cells. Woynarowski JM, et al. **Biochem Pharmacol** 1989 Nov 15; 38(22):4095-101

Duplex oligodeoxyribonucleotides cross-linked by mitomycin C at a single site: synthesis, properties, and cross-link reversibility. Borowy-Borowski H, et al. **Biochemistry** 1990 Mar 27;29(12):2992-9

Recognition between mitomycin C and specific DNA sequences for cross-link formation. Borowy-Borowski H, et al. **Biochemistry** 1990 Mar 27;29(12):2999-3006

A spectroscopic study of the binding of N-7-substituted cap analogues to human protein synthesis initiation factor 4E. Carberry SE, et al. **Biochemistry** 1990 Apr 3;29(13):3337-41

Interaction of myosin subfragment 1 with fluorescent ribose-modified nucleotides. A comparison of vanadate trapping and SH1-SH2 cross-linking. Cremo CR, et al. **Biochemistry** 1990 Apr 3;29(13):3309-19

NMR and computational characterization of mitomycin cross-linked to adjacent deoxyguanosines in the minor groove of the d(T-A-C-G-T-A).d(T-A-C-G-T-A) duplex. Norman D, et al. **Biochemistry** 1990 Mar 20; 29(11):2861-75

Structure of a thermostable disulfide-bridge mutant of phage T4 lysozyme shows that an engineered cross-link in a flexible region does not increase the rigidity of the folded protein. Pjura PE, et al. **Biochemistry** 1990 Mar 13; 29(10):2592-8

Activation of the dynein adenosinetriphosphatase by cross-linking to microtubules. Shimizu T, et al. **Biochemistry** 1989 Aug 22;28(17):7016-21

A new bifunctional spin-label suitable for saturation-transfer EPR studies of protein rotational motion. Wilcox MD, et al. **Biochemistry** 1990 Jun 19;29(24):5734-43

Sequence specificity of the deoxyribonuclease activity of 1,10-phenanthroline-copper ion. Yoon C, et al. **Biochemistry** 1990 Feb 27;29(8):2116-21

Crosslinking and radiation inactivation analysis of the subunit structure of the pyridine nucleotide transhydrogenase of Escherichia coli. Hou C, et al. **Biochim Biophys Acta** 1990 Jul 17;1018(1):61-6

Glutaraldehyde crosslinking analysis of the C12E8 solubilized H,K-ATPase. Rabon EC, et al. **Biochim Biophys Acta** 1990 Jul 6;1039(3):277-89

Cross-linking of phosphatidylethanolamine neighbors with dimethylsuberimidate is sensitive to the lipid phase. Roth MR, et al. **Biochim Biophys Acta** 1989 Nov 27; 986(2):217-24

Comparative studies of the preparation of immunoliposomes with the use of two bifunctional coupling agents and investigation of in vitro immunoliposome-target cell binding by cytofluorometry and electron microscopy. Schwendener RA, et al. **Biochim Biophys Acta** 1990 Jul 9;1026(1):69-79

Immobilized enzyme activity improvement in glutaraldehyde method. Chen CZ, et al. **Biomater Artif Cells Artif Organs** 1989;17(3):329-34

Characterization of the reaction products of adult human hemoglobin and disuccinimidyloxalate. Marini MA, et al. **Biopolymers** 1989 Dec;28(12):2195-200

Migration in polyacrylamide gels of the 80K protein substrate for protein kinase C in mouse fibroblasts is dependent on the choice of crosslinker. Hedberg KK, et al. **Biotechniques** 1989 Jun;7(6):570, 573-4

Crosslinked fibrous collagen for use as a dermal implant: control of the cytotoxic effects of glutaraldehyde and dimethylsuberimidate. Hey KB, et al. **Biotechnol Appl Biochem** 1990 Feb;12(1):85-93

Lack of drug-induced DNA cross-links in chlorambucil-resistant Chinese hamster ovary cells. Jiang BZ, et al. **Cancer Res** 1989 Oct 15;49(20):5514-7

Synthesis of a duplex oligonucleotide containing a nitrogen mustard interstrand DNA-DNA cross-link. Ojwang JO, et al. **Cancer Res** 1989 Dec 1;49(23):6529-37

A simple procedure for cross-linking complementary oligonucleotides. Chu BC, et al. **DNA Cell Biol** 1990 Jan-Feb;9(1):71-6

Electrophoretic separation of protein kinases: altered mobility with different crosslinking agents in the presence of certain detergents. Sprott S, et al. **Electrophoresis** 1990 Jan; 11(1):29-33

Improved detection of the histamine receptor on human peripheral blood mononuclear cells by crosslinking using tritiated as compared with radioiodinated histamine. Warlow RS, et al. **Electrophoresis** 1990 Jun;11(6):495-9

Crosslinking of cytochrome c and cytochrome b5 with a water-soluble carbodiimide. Reaction conditions, product analysis and critique of the technique. Mauk MR, et al. **Eur J Biochem** 1989 Dec 22;186(3):473-86

Disulfide cross-linking of urea-insoluble proteins in rabbit lenses treated with hyperbaric oxygen. Padgaonkar V, et al. **Exp Eye Res** 1989 Nov;49(5):887-99

Chemical crosslinking of Plasmodium falciparum glycoprotein, Pf200 (190-205 kDa), to the S-antigen at the merozoite surface. Perkins ME, et al. **Exp Parasitol** 1990 Feb;70(2):207-16

Immobilization of small molecules and proteins by radio-derivatized polystyrene. Varga JM, et al. **FASEB J** 1990 Jun;4(9):2671-7

mus308 mutants of Drosophila exhibit hypersensitivity to DNA cross-linking agents and are defective in a deoxyribonuclease. Boyd JB, et al. **Genetics** 1990 Aug; 125(4):813-9

Dissociation, cross-linking, and glycosylation of the coated vesicle proton pump. Adachi I, et al. **J Biol Chem** 1990 Jan 15;265(2):967-73

DNA base composition determines the specificity of UvrABC endonuclease incision of a psoralen cross-link. Jones BK, et al. **J Biol Chem** 1990 Feb 25;265(6):3489-96

Identification of lipopolysaccharide-binding proteins in 70Z/3 cells by photoaffinity cross-linking. Kirkland TN, et al. **J Biol Chem** 1990 Jun 5;265(16):9520-5

A mitogenic fibrinogen receptor that differs from glycoprotein IIb-IIIa. Identification by affinity chromatography and by covalent cross-linking. Levesque JP, et al. **J Biol Chem** 1990 Jan 5;265(1):328-33

Transglutaminase-mediated cross-linking of fibrinogen by human umbilical vein endothelial cells. Martinez J, et al. **J Biol Chem** 1989 Dec 5;264(34):20502-8

Highly sulfated glycosaminoglycans augment the cross-linking of vitronectin by guinea pig liver transglutaminase. Functional studies of the cross-linked vitronectin multimers. Sane DC, et al. **J Biol Chem** 1990 Feb 25;265(6):3543-8

Structural characterization of Y1 and Y2 receptors for neuropeptide Y and peptide YY by affinity cross-linking. Sheikh SP, et al. **J Biol Chem** 1990 May 15;265(14):8304-10

Effect of alternative crosslinking methods on the low strain rate viscoelastic properties of bovine pericardial bioprosthetic material. Pereira CA, et al. **J Biomed Mater Res** 1990 Mar;24(3):345-61

Use of the acyl azide method for cross-linking collagen-rich tissues such as pericardium. Petite H, et al. **J Biomed Mater Res** 1990 Feb;24(2):179-87

Crosslinking of whey protein by transglutaminase. Aboumahmoud R, et al. **J Dairy Sci** 1990 Feb;73(2):256-63

Transient activation of the NADPH oxidase through Fc gamma RI. Oxidase deactivation precedes internalization of cross-linked receptors. Pfefferkorn LC, et al. **J Immunol** 1989 Oct 15;143(8):2640-9

A novel technique to link either proteins or peptides to gammaglobulin to construct tolerogens. Borel H, et al. **J Immunol Methods** 1990 Feb 9;126(2):159-68

Polynucleotide cross-linking by aluminum. Karlik SJ, et al. **J Inorg Biochem** 1989 Dec;37(4):259-69

Chemical crosslinking: a useful tool for evaluations of steroid receptor structures and their functional states in intact cells. Rossini GP, et al. **J Steroid Biochem** 1989;34(1-6):363-7

Photoaffinity cross-linking methods for studying RNA-protein interactions. Hanna MM. **Methods Enzymol** 1989;180:383-409

Analysis of proteins cross-linked to DNA after treatment of cells with formaldehyde, chromate, and cis-diamminedichloroplatinum(II). Miller CA 3d, et al. **Mol Toxicol** 1989 Winter;2(1):11-26

Immunodetection of DNA-protein crosslinks by slot blotting. Miller CA 3d, et al. **Mutat Res** 1990 Apr;234(2):97-106

Reversible toroidal compaction of DNA by aluminum. Karlik SJ, et al. **Neurotoxicology** 1989 Summer;10(2):167-76

Optimization of the efficiency of cross-linking PtII oligonucleotide phosphorothioate complexes to complementary oligonucleotides. Chu BC, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5163-71

Crosslinking of tRNA containing a long extra arm to elongation factor Tu by trans-diamminedichloroplatinum(II). Rasmussen NJ, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4883-90

The structure of a pre-mRNA molecule in solution determined with a site directed cross-linking reagent. Teare J, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):855-64

Heterobifunctional photoaffinity labeling reagents. Ji TH, et al. **Pharmacol Ther** 1989;43(3):321-32 (77 ref.)

The use of photocrosslinkable polyvinyl alcohol in the immunoisolation of pancreatic islets. Iwata H, et al. **Transplant Proc** 1990 Apr;22(2):797-9

ANALYSIS

Disulfide bridges of bovine spleen cathepsin B. Baudyš M, et al. **Biol Chem Hoppe Seyler** 1990 Jun;371(6):485-91

Presence of endogenous cross-linking/bifunctional agents in gastrointestinal cavity as detected by transit of magnetic PEI microcapsules. Ellul A, et al. **Carcinogenesis** 1990 Sep; 11(9):1577-82

Pseudo-first-order alkaline hydrolysis of diethyl tartrate: a baseline study for a polymer matrix used in controlled-release delivery systems. Kalonia DS, et al. **J Pharm Sci** 1990 Apr;79(4):364-8

CHEMICAL SYNTHESIS

Synthesis and characterization of steroid-linked N-(2-chloroethyl)nitrosoureas. Eisenbrand G, et al. **Arch Pharm (Weinheim)** 1989 Dec;322(12):863-72

p-Nitrophenyl 3-diazopyruvate and diazopyruvamides, a new family of photoactivatable cross-linking bioprobes. Goodfellow VS, et al. **Biochemistry** 1989 Jul 25; 28(15):6346-60

Divalent azido-ATP analog for photoaffinity cross-linking of F1 subunits. Schäfer HJ. **Methods Enzymol** 1986; 126:649-60

Synthesis and use of an azido-labeled form of the ATPase inhibitor peptide of rat liver mitochondria. Schwerzmann K, et al. **Methods Enzymol** 1986;126:660-6

Preparation of a novel psoralen containing deoxyadenosine building block for the facile solid phase synthesis of psoralen-modified oligonucleotides for a sequence specific crosslink to a given target sequence. Pieles U, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):8967-78

DIAGNOSTIC USE

Development of effective cross-linking method for bioactive substance—enzyme immobilization using glutaraldehyde oligomers [published erratum appears in Chem Pharm Bull (Tokyo) 1989 Dec;37(12):3435] Nakagawa T, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2463-6

Identification of endothelin receptors by chemical cross-linking. Schvartz I, et al. **Endocrinology** 1990 Apr; 126(4):1829-33

ISOLATION & PURIFICATION

Isolation and characterization of new cross-linking amino acid "allodesmosine" from hydrolysate of elastin. Suyama K, et al. **Biochem Biophys Res Commun** 1990 Jul 31; 170(2):713-8

Structure elucidation of a senescence cross-link from human extracellular matrix. Implication of pentoses in the aging process. Sell DR, et al. **J Biol Chem** 1989 Dec 25; 264(36):21597-602

METABOLISM

Tetrameric structure of mitochondrially bound rat brain hexokinase: a crosslinking study. Xie G, et al. **Arch Biochem Biophys** 1990 Jan;276(1):285-93

Lipoprotein binding of crosslinked type III collagen aminopropeptide and fractions of its antigen in blood. Bowness JM, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):519-25

Influence of nucleotide on chemical crosslinking between alkali light chains and the heavy chain of myosin subfragment 1. Pliszka B. **Biochim Biophys Acta** 1990 Aug 1;1040(1):89-94

Paradoxical increase in DNA cross-linking in a human ovarian carcinoma cell line resistant to cyanomorpholino doxorubicin. Lau DH, et al. **Cancer Res** 1990 Jul 1; 50(13):4056-60

Stable bifunctional chelates of metals used in radiotherapy. Moi MK, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):789s-793s

The subunit structure of Saccharomyces cerevisiae transcription factor IIIC probed with a novel photocrosslinking reagent. Bartholomew B, et al. **EMBO J** 1990 Jul;9(7):2197-205

Orientation of retinal in bovine rhodopsin determined by cross-linking using a photoactivatable analog of 11-cis-retinal. Nakayama TA, et al. **J Biol Chem** 1990 Sep 15;265(26):15762-9

Protein translocation across the endoplasmic reticulum membrane: identification by photocross-linking of a 39-kD integral membrane glycoprotein as part of a putative translocation tunnel. Krieg UC, et al. **J Cell Biol** 1989 Nov; 109(5):2033-43

Structure and membrane topology of the high-affinity receptor for human IFN-gamma: requirements for binding IFN-gamma. One single 90-kilodalton IFN-gamma receptor can lead to multiple cross-linked products and isolated proteins. Fountoulakis M, et al. **J Immunol** 1989 Nov 15;143(10):3266-76

PHARMACOKINETICS

S1-nuclease enhancement of the ethidium bromide binding assay of drug-induced DNA interstrand crosslinking in human brain tumor cells. Sriram R, et al. **Anal Biochem** 1990 Jun;187(2):345-8

Subunit level crosslinking of rabbit muscle pyruvate kinase by o-phthaldialdehyde. Yilmaz S, et al. **Arch Biochem Biophys** 1990 May 15;279(1):32-6

Characterization of a DNA damage-recognition protein from mammalian cells that binds specifically to intrastrand d(GpG) and d(ApG) DNA adducts of the anticancer drug cisplatin. Donahue BA, et al. **Biochemistry** 1990 Jun 19; 29(24):5872-80

Simultaneous determination of the reducible and nonreducible cross-links of connective tissue. Analysis of mineralized and nonmineralized bone collagen. Graham L, et al. **Biochemistry** 1989 Sep 19;28(19):7889-95

Independent analysis of bait region cleavage dependent and thiolester bond cleavage dependent conformational changes by cross-linking of alpha 2-macroglobulin with cis-dichlorodiammineplatinum(II) and dithiobis(succinimidyl propionate). Roche PA, et al. **Biochemistry** 1989 Sep 19;28(19):7629-36

A scanning calorimetric study of natural DNA and antitumoral anthracycline antibiotic-DNA complexes. Barceló F, et al. **Chem Biol Interact** 1990;74(3):315-24

PHARMACOLOGY

Partial purification and characterization of erythropoietin receptors from erythroid progenitor cells. Im JH, et al. **Arch Biochem Biophys** 1990 May 1;278(2):486-91

Covalent crosslinking analysis of angiotensin receptors on differentiated NG108-15 cells. Carrithers MD, et al. **Biochem Biophys Res Commun** 1990 Aug 16; 170(3):1096-101

Detection by chemical cross-linking of bovine brain synapsin I self-association. Font B, et al. **Biochem J** 1989 Dec 15; 264(3):893-9

Reversible and irreversible cross-linking of immunoglobulin heavy chains through their carbohydrate residues. Heimgartner U, et al. **Biochem J** 1990 May 1;267(3):585-91

Cross-linking of a monomeric 39/34-kDa dispase fragment of von Willebrand factor (Leu-480/Val-481-Gly-718) to the N-terminal region of the alpha-chain of membrane glycoprotein Ib on intact platelets with bis(sulfosuccinimidyl) suberate. Andrews RK, et al. **Biochemistry** 1989 Oct 17;28(21):8326-36

MgADP-induced changes in the structure of myosin S1 near the ATPase-related thiol SH1 probed by cross-linking. Rajasekharan KN, et al. **Biochemistry** 1990 Mar 27; 29(12):3006-13

Cross bonding and stiffening of the red cell membrane. Fischer TM. **Biochim Biophys Acta** 1989 Oct 16; 985(2):218-28

99mTc labeling of proteins: initial evaluation of a novel diaminedithioi bifunctional chelating agent. Baidoo KE, et al. **Cancer Res** 1990 Feb 1;50(3 Suppl):799s-803s

Differential cytotoxicity of diaziquone toward Chinese hamster ovary cells under hypoxic and aerobic exposure conditions. O'Brien PJ, et al. **Cancer Res** 1990 Mar 1; 50(5):1516-20

Formation and stability of interstrand cross-links induced by cis- and trans-diamminedichloroplatinum (II) in the DNA of Saccharomyces cerevisiae strains differing in repair capacity. Wilborn F, et al. **Curr Genet** 1989 Dec; 16(5-6):331-8

The crosslinking theory of aging--added evidence. Bjorksten J, et al. **Exp Gerontol** 1990;25(2):91-5

Discrepancy between cytotoxicity and DNA interstrand crosslinking of carboplatin and cisplatin in vivo. DeNeve W, et al. **Invest New Drugs** 1990 Feb;8(1):17-24

Galanin receptor in the rat pancreatic beta cell line Rin m 5F. Molecular characterization by chemical cross-linking. Amiranoff B, et al. **J Biol Chem** 1989 Dec 5;264(34):20714-7

UvrABC incision of N-methylmitomycin A-DNA monoadducts and cross-links. Pu WT, et al. **J Biol Chem** 1989 Dec 5;264(34):20697-704

Equilibrium oxygen binding to human hemoglobin cross-linked between the alpha chains by bis(3,5-dibromosalicyl) fumarate. Vandegriff KD, et al. **J Biol Chem** 1989 Oct 25;264(30):17824-33

Structure of the bacteriophage T4 baseplate as determined by chemical cross-linking. Watts NR, et al. **J Virol** 1990 Jan;64(1):143-54

Analysis of spontaneous and psoralen-induced Salmonella typhimurium hisG46 revertants by oligodeoxyribonucleotide colony hybridization: use of psoralens to cross-link probes to target sequences. Cebula TA, et al. **Mutat Res** 1990 Mar;229(1):79-87

Crosslinking of transcription factor TFIIIA to ribosomal 5S RNA from X. laevis by trans-diamminedichloroplatinum (II). Baudin F, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):10035-46

Formation of a DNA monofunctional cis-platinum adduct cross-linking the intercalating drug N-methyl-2,7-diazapyrenium. Malinge JM, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3887-91

Human epidermal growth factor receptor residue covalently cross-linked to epidermal growth factor. Wu DG, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3151-5

[Polymer materials for biomedical use obtained by radiation methods. III. Radiation cross-linking of acrylamide and N-vinylpyrrolidone] Rosiak J, et al. **Polim Med** 1989; 19(3-4):69-92 (Eng. Abstr.) (Pol)

[The 5S rRNA-protein complex of Escherichia coli studied by carbodiimide modification] Dontsova OA, et al. **Biol Nauki** 1990;(2):22-30 (Eng. Abstr.) (Rus)

[UV-induced formation of DNA-protein cross-links in chromatin in the presence of chemical agents] Miul' EM, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Sep-Oct;(5):766-9 (Eng. Abstr.) (Rus)

CROSS REACTIONS

Antigenic epitope in Pseudomonas aeruginosa lipopolysaccharide immunologically cross-reactive with Escherichia coli O26 lipopolysaccharide. Yokota S, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):245-8

Does vaccination of splenectomized patients against pneumococci induce dextran-reactive antibodies? Ljungström KG, et al. **Int Arch Allergy Appl Immunol** 1989; 90(1):8-10

Cross-allergenicity in the legume botanical family in children with food hypersensitivity. II. Laboratory correlates. Bernhisel-Broadbent J, et al. **J Allergy Clin Immunol** 1989 Nov;84(5 Pt 1):701-9

Binding characteristics and cross-reactivity of three different antilipid A monoclonal antibodies. Erich T, et al. **J Immunol** 1989 Dec 15;143(12):4053-60

An antiserum to atrial natriuretic factor (ANF) cross-reacts with neurophysins in the hypothalamo-neurohypophysial system of rat brain. Nilaver G, et al. **Neuropeptides** 1989 Aug-Sep;14(2):137-44

Cross-reactivity of antibody against an epitope of the Plasmodium falciparum second merozoite surface antigen. Saul A, et al. **Parasite Immunol** 1989 Nov;11(6):593-601

IMMUNOLOGY

Identification of cross-reactive T cell restriction epitopes located on the DR7 beta 1 and DR beta 4 molecules. Bismuth G, et al. **Hum Immunol** 1990 Jul;28(3):271-83

Topographic map of the HLA-A2 CREG epitopes using human alloantibody probes. Fuller AA, et al. **Hum Immunol** 1990 Jul;28(3):284-305

Epitope map of the HLA-B7 CREG using affinity-purified human alloantibody probes. Fuller AA, et al. **Hum Immunol** 1990 Jul;28(3):306-25

Antigenic and allergenic characterization of the enzymes alcalase and savinase by crossed immunoelectrophoresis and crossed radioimmunoelectrophoresis. Arlian LG, et al. **Int Arch Allergy Appl Immunol** 1990;91(3):278-84

Mapping of epitopes on Poa p I and Lol p I allergens with monoclonal antibodies. Lin ZW, et al. **Int Arch Allergy Appl Immunol** 1990;91(3):217-23

Interspecies crossreactive antigen of the pancreatic duct cell prepared by monoclonal antibody. A preliminary study of its immunological significance in patients with chronic pancreatitis associated with Sjögren's syndrome. Okazaki K, et al. **Int J Pancreatol** 1989 Dec;5(4):359-77

Reactivity between monoclonal anti-HLA-B27 antibodies and bacterial components: is there a consensus of findings? Ren MN, et al. **Rheumatol Int** 1989;9(3-5):219-21 (16 ref.)

CROSS-SECTIONAL STUDIES

Cross-sectional survey sampling [letter; comment] Birnbaum D. **Infect Control Hosp Epidemiol** 1989 Nov;10(11):502 Comment on: Infect Control Hosp Epidemiol 1989 Jul;10(7):321-5.

A cumulative review of studies on travellers, their experience of illness and the implications of these findings. Cossar JH, et al. **J Infect** 1990 Jul;21(1):27-42 (68 ref.)

Problems of cancer mapping. Verhasselt Y. **Recent Results Cancer Res** 1989;114:22-7

Maximum likelihood estimation of reference centiles. Thompson ML, et al. **Stat Med** 1990 May;9(5):539-48

CROSS-TRANSFUSION, INTRAUTERINE see **FETOFETAL TRANSFUSION**

CROSSES, GENETIC

see related
CONJUGATION, GENETIC
HYBRIDIZATION
TRANSDUCTION, GENETIC
TRANSFORMATION, GENETIC

Body weight, tick burden (Boophilus microplus), physiological parameters and reproductive efficiency of crossbred zebu cattle. Garcia M, et al. **Acta Vet Scand** 1989; 30(3):347-53

Genetic influences on behavior of infant Mus domesticus: a comparison of results from diallels derived from single and multiple populations. Henderson ND. **Behav Genet** 1989 Jul;19(4):551-74

Inheritance of spatial learning ability in inbred mice: a classical genetic analysis. Upchurch M, et al. **Behav Neurosci** 1989 Dec;103(6):1251-8

Crossbreeding as a tool for genetic improvement of chickens in suboptimum environments. Katule AM. **Beitr Trop Landwirtsch Veterinarmed** 1990;28(3):325-35

Use of Lotus 1-2-3 spreadsheet software for managing and analyzing genetic backcross data. Reeves RH. **Biotechniques** 1988 Jan;6(1):12-4

The development of a new breed of sheep in Colombia. Scott HM, et al. **Br Vet J** 1990 Mar-Apr;146(2):106-12

Mariner, Mos and associated aberrant traits in Drosophila mauritiana. Jacobson JW. **Genet Res** 1990 Jun;55(3):153-8

A genetic linkage map of mouse chromosome 10: localization of eighteen molecular markers using a single interspecific backcross. Justice MJ, et al. **Genetics** 1990 Aug; 125(4):855-66

Fine mapping of quantitative trait loci using selected overlapping recombinant chromosomes, in an interspecies cross of tomato. Paterson AH, et al. **Genetics** 1990 Mar; 124(3):735-42

Estimation of recombination frequencies and construction of RFLP linkage maps in plants from crosses between heterozygous parents. Ritter E, et al. **Genetics** 1990 Jul; 125(3):645-54

The genic nature of gamete eliminator in rice. Sano Y. **Genetics** 1990 May;125(1):183-91

Identification of crossbred buffalo genotypes and their chromosome segregation patterns. Harisah M, et al. **Genome** 1989 Dec;32(6):999-1002

The mouse neurological mutant weaver maps within the region of chromosome 16 that is homologous to human chromosome 21. Reeves RH, et al. **Genomics** 1989 Oct; 5(3):522-6

Localization of genes causing postzygotic isolation in two hybridizations involving Drosophila pseudoobscura. Orr HA. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):231-7

Evolutionary genetics of the Drosophila montium subgroup. I. Reproductive isolations and the phylogeny [published erratum appears in Idengaku Zasshi 1989 Dec;64(6):503-4] Kim BK, et al. **Idengaku Zasshi** 1989 Jun;64(3):177-90

Linkage of the Dao-1 gene for D-amino-acid oxidase to the pgm-1 gene for phosphoglucomutase-1 on the mouse chromosome 5. Konno R, et al. **Idengaku Zasshi** 1989 Oct; 64(5):341-5

Analysis and comparison of cercarial emergence rhythms of Schistosoma haematobium, S. intercalatum, S. bovis, and their hybrid progeny. Pages JR, et al. **Int J Parasitol** 1990 Apr;20(2):193-7

Life-cycle evaluation of Bos taurus and Bos indicus X Bos taurus breed types in a dry, temperate climate: performance of mature dams. Bailey CM, et al. **J Anim Sci** 1990 Apr; 68(4):960-8

Comparison of production characteristics from birth through slaughter of calves sired by Angus, Charolais or Piedmontese bulls. Baker JF, et al. **J Anim Sci** 1990 Jun; 68(6):1562-8

Direct and maternal genetic effects due to the introduction of Bos taurus alleles into Brahman cattle in Florida: II. Preweaning growth traits. Elzo MA, et al. **J Anim Sci** 1990 Feb;68(2):324-9

Lifetime production of 1/4 and 1/2 Finnsheep ewes from Rambouillet, Targhee and Columbia dams as affected by natural attrition. Ercanbrack SK, et al. **J Anim Sci** 1989 Dec;67(12):3258-65

Crossbreeding among British and continental European dual-purpose breeds in the coastal Pacific Northwest. Hohenboken WD, et al. **J Anim Sci** 1989 Nov;67(11):2841-7

Relationships of empty-body composition and fat distribution to live animal and carcass measurements in Bos indicus-Bos taurus crossbred cows. Holloway JW, et al. **J Anim Sci** 1990 Jul;68(7):1818-26

Effects of percentage Brahman and Angus breeding, age-season of feeding and slaughter end point on meat palatability and muscle characteristics. Johnson DD, et al. **J Anim Sci** 1990 Jul;68(7):1980-6

Performance of crosses among Hereford, Angus and Simmental cattle with different levels of Simmental breeding: IV. Maternal heterosis and calf production by two-year-old dams. Kress DD, et al. **J Anim Sci** 1990 Jan; 68(1):54-63

Performance of crosses among Hereford, Angus and Simmental cattle with different levels of Simmental breeding: V. Calf production, milk production and reproduction of three- to eight-year-old dams. Kress DD, et al. **J Anim Sci** 1990 Jul;68(7):1910-21

Comparisons of specific crosses from Duroc-Landrace, Yorkshire-Landrace and Hampshire-Landrace sows managed in two types of gestation systems: pig performance. Kuhlers DL, et al. **J Anim Sci** 1989 Oct; 67(10):2595-602

Comparison of crossbred cows containing various proportions of Brahman in spring or fall calving systems. I. Productivity as two-year-olds. McCarter MN, et al. **J Anim Sci** 1990 Jun;68(6):1547-52

Growth of crossbred progeny of polled Hereford sires divergently selected for yearling weight and maternal ability. Mahrt GS, et al. **J Anim Sci** 1990 Jul;68(7):1889-98

Reproductive performance and variation in body weight during annual cycles for crossbred beef cows with different genetic potential for milk. Montaño-Bermudez M, et al. **J Anim Sci** 1990 Aug;68(8):2289-96

Direct and maternal genetic effects due to the introduction of Bos taurus alleles into Brahman cattle in Florida: I. Reproduction and calf survival. Olson TA, et al. **J Anim Sci** 1990 Feb;68(2):317-23

Production characters of straightbred, F1 and F2 cows: birth and weaning characters of terminal-cross calves. Sacco RE, et al. **J Anim Sci** 1989 Aug;67(8):1972-9

Breed effects on crossbred cow-calf performance. Setshwaelo LL, et al. **J Anim Sci** 1990 Jun;68(6):1577-87

Comparison of two- and three-way rotational crossing, beef x beef and beef x Brown Swiss composite breed production: postweaning growth and carcass traits. Urick JJ, et al. **J Anim Sci** 1989 Oct;67(10):2603-8

Two-, three- and four-breed rotational crossbreeding of beef cattle: reproductive traits. Williams AR, et al. **J Anim Sci** 1990 Jun;68(6):1536-46

Animal model evaluation of dairy goats for milk, fat, and protein yields with crossbred animals included. Wiggans GR. **J Dairy Sci** 1989 Sep;72(9):2411-6

Acquisition of endogenous ecotropic MuLV can occur before the late one-cell stage in the genital tract of SWR/J-RF/J hybrid females. Richoux V, et al. **J Exp Zool** 1989 Oct; 252(1):96-100

Specific inhibition of hybrid resistance in F1 hybrid mice pretreated with parent-strain spleen cells. III. Study of the mechanism. Cibotti R, et al. **J Immunol** 1989 Dec 1;

143(11):3484–91
Hybrids between Schistosoma mansoni and S. rodhaini: characterization by isoelectric focusing of six enzymes. Brémond P, et al. **Parasitol Res** 1989;76(2):138–45
Analysis of a genetic cross between Trypanosoma brucei rhodesiense and T. b. brucei. Gibson WC. **Parasitology** 1989 Dec;99 Pt 3:391–402
Hybrids between Schistosoma mansoni and S. rodhaini: characterization by cercarial emergence rhythms. Théron A. **Parasitology** 1989 Oct;99 Pt 2:225–8
Dam strain affects cardiovascular reactivity to acute stress in BHR. Woodworth CH, et al. **Physiol Behav** 1990 Jan; 47(1):139–44
Spermatogenesis in Bali cattle (Bos sondaicus) and hybrids with Bos indicus and Bos taurus. McCool CJ. **Res Vet Sci** 1990 May;48(3):288–94
Productivity of crossbred cattle on smallholder farms in southern Malawi. Agyemang K, et al. **Trop Anim Health Prod** 1990 Feb;22(1):9–16
Growth pattern of desi (indigenous) and crossbred chicks under rural scavenging conditions. Sazzad MH, et al. **Trop Anim Health Prod** 1989 Nov;21(4):280
Epidemiology, effects and control of nematode infections on Zebu crossbred, Hereford and Hereford X Brahman calves of Argentina's western pampas. Suarez VH, et al. **Vet Parasitol** 1990 Feb;35(1–2):79–91
Pathological studies of cross-related congenital hypotrichosis in cattle. Ayers JR, et al. **Zentralbl Veterinarmed [A]** 1989 Jul;36(6):447–52
[Reciprocal circulant plan for animal cross] Pan YC, et al. **I Chuan Hsueh Pao** 1988;15(6):430–5 (Eng. Abstr.) **(Chi)**
[The heterosis of hybrid Drosophila produced by crossing 2 lines selected for their combining ability] Volkova LI, et al. **Dokl Akad Nauk SSSR** 1990;310(4):984–6 **(Rus)**
[The fertility of interspecific streptomycete hybrids] Shevchenko AA, et al. **Mikrobiol Zh** 1983 Nov–Dec; 45(6):3–7 (Eng. Abstr.) **(Rus)**
[The stability, antibiotic resistance and antibiotic-forming capacity of interspecific streptomycete hybrids] Shevchenko AA, et al. **Mikrobiol Zh** 1983 Jul–Aug; 45(4):9–13 (Eng. Abstr.) **(Rus)**

CROSSING OVER (GENETICS)

Segregation distortion in inheritance of progressive rod cone degeneration (prcd) in miniature poodle dogs. Acland GM, et al. **Am J Med Genet** 1990 Mar;35(3):354–9
Stepwise oligogenic segregation and linkage analysis illustrated with dopamine-beta-hydroxylase activity. Wilson AF, et al. **Am J Med Genet** 1990 Mar;35(3):425–32
The cis–trans effects of crossing-over on the penetrance and expressivity of dominantly inherited disorders. Côté GB. **Ann Genet** 1989;32(3):132–5
Meiotic gene conversion and crossing over: their relationship to each other and to chromosome synapsis and segregation. Engebrecht J, et al. **Cell** 1990 Sep 7;62(5):927–37
Unequal crossing over and heterochromatin exchange in the X-Y bivalents of the deer mouse, Peromyscus beatae. Sudman PD, et al. **Chromosoma** 1990 Jul;99(3):183–9
Near-normal chiasma formation and maintenance in a short distal translocated segment in maize. Maguire MP. **Genetica** 1989;79(2):129–32
Length and distribution of meiotic gene conversion tracts and crossovers in Saccharomyces cerevisiae. Borts RH, et al. **Genetics** 1989 Sep;123(1):69–80
The foundations of genetic fine structure: a retrospective from memory. Green MM. **Genetics** 1990 Apr;124(4):793–6
Mechanisms of gene conversion in Saccharomyces cerevisiae. Roman H, et al. **Genetics** 1990 Jan;124(1):7–25
Two distinct areas of unequal crossingover within the steroid 21-hydroxylase genes produce absence of CYP21B [published erratum appears in Genomics 1990 Feb;6(2):392] Donohoue PA, et al. **Genomics** 1989 Oct;5(3):397–406
Fitting of a binomial distribution to the number of chiasmata per bivalent. Ukai Y. **Idengaku Zasshi** 1988 Jun; 63(3):259–65
Identification of the crossing-over point of a hybrid gene encoding human glycophorin variant Sta. Similarity to the crossing-over point in haptoglobin-related genes. Rearden A, et al. **J Biol Chem** 1990 Jun 5;265(16):9259–63
Asymmetry in chromosome pairing: a major factor in de novo mutation and the production of genetic disease in man. Chandley AC. **J Med Genet** 1989 Sep;26(9):546–52 (54 ref.)
Segregation analysis of peripheral neurofibromatosis (NF1). Littler M, et al. **J Med Genet** 1990 May;27(5):307–10
Segregation analysis of dominant osteogenesis imperfecta in Italy. Mottes M, et al. **J Med Genet** 1990 Jun;27(6):367–70
Multiple abnormalities in a child with partial duplications of 10p and 13q from a 3:1 segregation of a maternal t(10;13) translocation. Yip MY, et al. **J Med Genet** 1990 Mar; 27(3):188–91
Preferred crossover sites on polyomavirus DNA. Bourgaux P, et al. **J Virol** 1990 May;64(5):2327–36
Mutagenic and recombinogenic consequences of DNA-repair inhibition during treatment with 1,3-bis(2-chloroethyl)-1-nitrosourea in Saccharomyces cerevisiae. Ferguson LR. **Mutat Res** 1990 Aug; 241(4):369–77
Botran and bleomycin induce crossing-over, and bleomycin also increases aneuploidy in diploid strains of Aspergillus. Käfer E. **Mutat Res** 1990 May;241(1):49–66
Genesis by meiotic unequal crossover of a de novo deletion that contributes to steroid 21-hydroxylase deficiency. Sinnott P, et al. **Proc Natl Acad Sci U S A** 1990 Mar; 87(6):2107–11
[The effect of sterol metabolism in a model ecological system Drosophila–yeasts on the crossing-over in Drosophila] Kamilova TA, et al. **Genetika** 1990 Feb;26(2):249–56 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Aspergillus nidulans as a test organism for the detection of chemically-induced mitotic crossing-over and chromosome malsegregation. Crebelli R. **Ann Ist Super Sanita** 1989;25(4):563–7
Mitomycin C-induced meiotic crossing-over on the interstitial segments in the Chinese hamster heterozygous for a reciprocal translocation. Sonta S, et al. **Idengaku Zasshi** 1988 Oct;63(5):457–63

GENETICS

Mitotic mapping in linkage group V of Aspergillus niger based on selection of auxotrophic recombinants by Novozym enrichment. Debets AJ, et al. **Can J Microbiol** 1989 Nov;35(11):982–8
Unusual segregation of constitutional 11q;22q translocation may be explained by crossover in interchange segment, followed by 3:1 segregation at meiosis I [letter; comment] Lindenbaum RH. **Hum Genet** 1990 Jun;85(1):143 Comment on: Hum Genet 1989 Oct;83(3):287–8.
Linkage disequilibrium in Huntington's disease: an improved localisation for the gene. Snell RG, et al. **J Med Genet** 1989 Nov;26(11):673–5

CROSSMATCHING, BLOOD see **BLOOD GROUPING AND CROSSMATCHING**

CROSSMATCHING, TISSUE see **HISTOCOMPATIBILITY TESTING**

CROTALID VENOMS

The amino acid sequence of the acidic subunit B-chain of crotoxin. Aird SD, et al. **Biochim Biophys Acta** 1990 Sep 3;1040(2):217–24
The complete sequence of the acidic subunit from Mojave toxin determined by Edman degradation and mass spectrometry. Bieber AL, et al. **Biochim Biophys Acta** 1990 Mar 1;1037(3):413–21
SAXS study of the snake toxin alpha-crotamine. Beltran JR, et al. **Eur Biophys J** 1990;17(6):325–9
Preliminary crystallographic study of phospholipase A2 from the venom of Trimeresurus flavoviridis (habu snake). Shinoda Y, et al. **J Biochem (Tokyo)** 1990 Jan;107(1):84–6
Transition of environmental polarity of tyrosine-76 of Trimeresurus flavoviridis phospholipase A2 upon active site ligand binding. Sakai H, et al. **J Mol Recognit** 1988 Jun;1(3):124–9
A proton nuclear magnetic resonance study on the solution structure of crotamine. Endo T, et al. **J Protein Chem** 1989 Dec;8(6):807–15
Identification of the cleavage sites by a hemorrhagic metalloproteinase in type IV collagen. Baramova EN, et al. **Matrix** 1990 May;10(2):91–7
Treatment of pit viper wounds. Grace TG, et al. **Surg Forum** 1978;29:562–4

ANALYSIS

Elegantin and albolabrin purified peptides from viper venoms: homologies with the RGDS domain of fibrinogen and von Willebrand factor. Williams J, et al. **Biochim Biophys Acta** 1990 May 31;1039(1):81–9
Comparative enzymatic study of HPLC-fractionated Crotalus venoms. Soto JG, et al. **Comp Biochem Physiol [B]** 1989;93(4):847–55
Polyacrylamide gel electrophoretic studies on the self-association of crotamine: characterization and molecular dimension of n-mer species. Hampe OG, et al. **Electrophoresis** 1990 Jun;11(6):475–8
Biochemical characteristics of fibrolase, a fibrinolytic protease from snake venom. Ahmed NK, et al. **Haemostasis** 1990;20(3):147–54
Hemorrhagic toxin from the venom of Agkistrodon bilineatus (common cantil). Imai K, et al. **Int J Biochem** 1989; 21(6):667–73
Isolation of two hemorrhagic toxins from Crotalus basiliscus basiliscus (Mexican west coast rattlesnake) venom and their effect on blood clotting and complement. Molina O, et al. **Int J Biochem** 1990;22(3):253–61
Isolation and characterization of the major phospholipase A2 from the venom of Trimeresurus purpureomaculatus (shore pit viper). Nget Hong Tan, et al. **Int J Biochem** 1989; 21(12):1421–6
Purification and properties of the thrombin-like enzyme from the venom of Lachesis muta muta. Silveira AM, et al. **Int J Biochem** 1989;21(8):863–71
A novel blood coagulation factor IX/factor X-binding protein with anticoagulant activity from the venom of Trimeresurus flavoviridis (Habu snake): isolation and characterization. Atoda H, et al. **J Biochem (Tokyo)** 1989 Nov;106(5):808–13
Purification and amino acid sequence of basic protein II, a lysine-49-phospholipase A2 with low activity, from Trimeresurus flavoviridis venom. Liu SY, et al. **J Biochem (Tokyo)** 1990 Mar;107(3):400–8
Primary structure and biological activity of bradykinin potentiating peptides from Bothrops insularis snake venom. Cintra AC, et al. **J Protein Chem** 1990 Apr;9(2):221–7
Anticoagulant effect of myotoxic phospholipase A2 isolated from the venom of the snake Bothrops asper (Viperidae). Alvarado J, et al. **Rev Biol Trop** 1988 Nov;36(2B):563–5
Isolation and characterization of a protein C activator from tropical moccasin venom. Nakagaki T, et al. **Thromb Res** 1990 Jun 15;58(6):593–602
Amino acid sequence of the basic subunit of Mojave toxin from the venom of the Mojave rattlesnake (Crotalus s. scutulatus). Aird SD, et al. **Toxicon** 1990;28(6):669–73
Cleavage of immunoglobulins by moojeni protease A, from the venom of Bothrops moojeni. Assakura MT, et al. **Toxicon** 1990;28(6):734–6
Isolation of a galactose-binding lectin from the venom of the snake Bothrops godmani (Godmann's pit viper). Lomonte B, et al. **Toxicon** 1990;28(1):75–81
Isolation of a hemorrhagic toxin from Mojave rattlesnake (Crotalus scutulatus scutulatus) venom. Martinez M, et al. **Toxicon** 1990;28(6):685–94
Characterization of the venom from Crotalus molossus nigrescens Gloyd (black tail rattleanake): isolation of two proteases. Ramírez GA, et al. **Toxicon** 1990;28(3):285–97
Isolation and characterization of hemorrhagic, myonecrotic and edema-inducing toxins from Bothrops insularis (jararaca ilhoa) snake venom. Selistre HS, et al. **Toxicon** 1990;28(3):261–73
Isolation and characterization of a fibrinogen-clotting enzyme from venom of the snake, Lachesis muta muta (Peruvian bushmaster). Yarleque A, et al. **Toxicon** 1989; 27(11):1189–97
Purification and amino acid sequence of basic protein I, a lysine-49-phospholipase A2 with low activity, from the venom of Trimeresurus flavoviridis (Habu snake). Yoshizumi K, et al. **Toxicon** 1990;28(1):43–54
[Isolation and characterization of a protein C activator from the moccasin snake venom] Storozhilova AN, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):57–9 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Neutralization of lethal and myotoxic activities of South American rattlesnake venom by extracts and constituents of the plant Eclipta prostrata (Asteraceae). Mors WB, et al. **Toxicon** 1989;27(9):1003–9

GENETICS

The complete amino acid sequence of the high molecular mass hemorrhagic protein HR1B isolated from the venom of Trimeresurus flavoviridis. Takeya H, et al. **J Biol Chem** 1990 Sep 25;265(27):16068–73
Cloning and nucleotide sequences of crotamine genes. Smith LA, et al. **Toxicon** 1990;28(5):575–85

IMMUNOLOGY

Production of monovalent anti-Bothrops asper antivenom: development of immune response in horses and neutralizing ability. Gutiérrez JM, et al. **Rev Biol Trop** 1988 Nov; 36(2B):511–7 (17 ref.)
Cross-neutralization of thrombin-like enzymes in snake venoms by polyvalent antivenoms. Claus I, et al. **Toxicon** 1989;27(12):1397–9
Antigenic cross-reactivity of venoms obtained from snakes of genus Bothrops. da Silva AM, et al. **Toxicon** 1990; 28(2):181–8
Ontogenetic changes in the venom of the snake Lachesis muta stenophrys (bushmaster) from Costa Rica. Gutiérrez JM, et al. **Toxicon** 1990;28(4):419–26
Cross reactivity of mono- and polyvalent antivenoms with Viperidae and Crotalidae snake venoms. Kornalik F, et al. **Toxicon** 1989;27(10):1135–42
Equine antibodies to Bothrops asper myotoxin II: isolation from polyvalent antivenom and neutralizing ability. Lomonte B, et al. **Toxicon** 1990;28(4):379–84
Comparison of the immunogenicity and antigenic composition of several venoms of snakes in the family Crotalidae. Ownby CL, et al. **Toxicon** 1990;28(2):189–99

ISOLATION & PURIFICATION

Interchain disulfide bonds in crotamine self-association. Teno AM, et al. **J Biochem (Tokyo)** 1990 Jun;107(6):821–5
Catroxobin, a weakly thrombin-like enzyme from the venom of Crotalus atrox. NH2-terminal and active site amino acid sequences. Pirkle H, et al. **Thromb Res** 1989 Oct 15; 56(2):159–68

METABOLISM

Degradation of extracellular matrix proteins by hemorrhagic metalloproteinases. Baramova EN, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):63–71
Binding of divalent and trivalent cations with crotoxin and with its phospholipase and its non-catalytic subunits: effects on enzymatic activity and on the interaction of phospholipase component with phospholipids. Radvanyi F, et al. **Biochim Biophys Acta** 1989 Nov 28;1006(2):183–92
Identification of a crotoxin-binding protein in membranes

from guinea pig brain by photoaffinity labeling. Hseu MJ, et al. **J Biochem Biophys** 1990 Feb;22(1):39–50
Isolation and partial characterization of Lachesis muta melanocephala coagulant proteinase: biochemical parameters of the venom. Aragón Ortiz F. **Rev Biol Trop** 1988 Nov;36(2B):387–92

PHARMACOLOGY

Effect of the substance(s) released in vitro by the interaction of Bothrops jararaca (BJ) venom or trypsin and BJ plasma on BJ blood pressure and uterus. Prezoto BC, et al. **Adv Exp Med Biol** 1989;247B:419–24
Enhanced botrocetin-induced type IIB von Willebrand factor binding to platelet glycoprotein Ib initiates hyperagglutination of normal platelets. Nishio K, et al. **Am J Hematol** 1990 Apr;33(4):261–6
Purification of botrocetin from Bothrops jararaca venom. Analysis of the botrocetin-mediated interaction between von Willebrand factor and the human platelet membrane glycoprotein Ib-IX complex. Andrews RK, et al. **Biochemistry** 1989 Oct 17;28(21):8317–26
Kallikrein-kinin system in the plasma of the snake Bothrops jararaca. Abdalla FM, et al. **Br J Pharmacol** 1989 Sep; 98(1):252–8
On the blockade of acetylcholine release at mouse motor nerve terminals by beta-bungarotoxin and crotoxin. Rowan EG, et al. **Br J Pharmacol** 1990 Jun;100(2):301–4
Functional and histopathological renal changes induced in rats by Bothrops jararaca venom. Rezende NA, et al. **Braz J Med Biol Res** 1989;22(3):407–16
A comparative study of the biological activities of venoms from snakes of the genus Agkistrodon (moccasins and copperheads). Tan NH, et al. **Comp Biochem Physiol [B]** 1990;95(3):577–82
Changes in myofibrillar components after skeletal muscle necrosis induced by a myotoxin isolated from the venom of the snake Bothrops asper. Gutiérrez JM, et al. **Exp Mol Pathol** 1990 Feb;52(1):25–36
Factors in snake venoms that increase capillary permeability. Miller RA, et al. **J Pharm Pharmacol** 1989 Nov; 41(11):792–4
Agkistrodon piscivorus piscivorus platelet aggregation inhibitor: a potent inhibitor of platelet activation. Chao BH, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8050–4
Bothrops jararaca snake venom: effects on platelet aggregation. Zingali RB, et al. **Thromb Res** 1990 May 1; 58(3):303–16
[Changes in blood coagulation time in patients bitten by young and adult Bothrops jararaca snakes] Ribeiro LA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Jul–Aug; 44(4):143–5 (Eng. Abstr.) **(Por)**
[Blood coagulating properties of the copperhead Agkisrodon halys halys venom and its thrombin-like fractions] Kalmykova IB, et al. **Vopr Med Khim** 1990 Mar–Apr; 36(2):12–4 (Eng. Abstr.) **(Rus)**

POISONING

Severe cases of green pit viper snake venom poisoning. Dumavibhat B, et al. **J Med Assoc Thai** 1989 Oct; 72(10):593–6
Bites by the white-lipped pit viper (Trimeresurus albolabris) and other species in Hong Kong. A survey of 4 years' experience at the Prince of Wales Hospital. Cockram CS, et al. **J Trop Med Hyg** 1990 Apr;93(2):79–86
The humoral immune responses of patients bitten by the snake Bothrops jararaca (jararaca). Domingos MO, et al. **Toxicon** 1990;28(6):723–6

TOXICITY

Immunization of equines with phospholipase A2 protects against the lethal effects of Crotalus durissus terrificus venom. Dos-Santos MC, et al. **Braz J Med Biol Res** 1989; 22(4):509–12
A comparative study of the enzymatic and toxic properties of venoms of the Asian lance-headed pit viper (Genus trimeresurus). Tan NH, et al. **Comp Biochem Physiol [B]** 1989;93(4):757–62
Pharmacologic experiments on the interaction between crotoxin and the mammalian neuromuscular junction. Trivedi S, et al. **J Pharmacol Exp Ther** 1989 Nov; 251(2):490–6
The effect of stepwise iodination on biological properties of Bothrops jararaca venom. Bicalho RX, et al. **Toxicon** 1990; 28(2):171–9
Histopathological and biochemical alterations induced by intramuscular injection of Bothrops asper (terciopelo) venom in mice. Chaves F, et al. **Toxicon** 1989; 27(10):1085–93
Effects of subunit cross-linking on the properties of crotoxin. Lennon BW, et al. **Toxicon** 1990;28(6):718–22
Effects of crotoxin on the isolated guinea pig heart. Santos PE, et al. **Toxicon** 1990;28(2):215–24

CROTON OIL

see related
PHORBOLS

PHARMACOLOGY

Effects of the gut-stimulating principle in Croton pendulifiorus seed oil on the central nervous system. Asuzu IU, et al. **J Ethnopharmacol** 1989 Sep;26(2):111–9

CROTONATES see under **FATTY ACIDS, MONOUNSATURATED**

CROTONIC ACIDS see under **FATTY ACIDS, MONOUNSATURATED**

CROTOXIN see under **CROTALID VENOMS**

CROUP see under **LARYNGITIS**

CROUZON'S DISEASE see **CRANIOFACIAL DYSOSTOSIS**

CROWDING

see related
POPULATION DENSITY
Effect of larval crowding on adult mating behaviour in Drosophila melanogaster. Ribó G, et al. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):195–202
Effect of cage population density on plasma corticosterone and peripheral lymphocyte populations of laboratory mice. Peng X, et al. **Lab Anim** 1989 Oct;23(4):302–6

PHYSIOPATHOLOGY

Stressful crowding during pregnancy advances onset of offspring adrenocortical rhythm. Creighton JA, et al. **Exp Biol** 1988;48(1):57–62
Voluntary ethanol intake of individually- or pair-housed rats: effect of ACTH or dexamethasone treatment. Weisinger RS, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):335–41
Comparison of crowding and food restriction effects on growth, body weight gain and endocrine status in the rat. Restrepo C, et al. **Reprod Nutr Dev** 1989;29(3):339–45
[Postnatal loss and the possible effect of overcrowding in a high fertility mouse population] Schüler L. **Z Versuchstierkd** 1990;33(3):146–8 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Residential density and psychological health: the mediating effects of social support. Evans GW, et al. **J Pers Soc Psychol** 1989 Dec;57(6):994–9
A crowding index for finite populations. O'Brien F. **Percept Mot Skills** 1990 Feb;70(1):3–11

CROWNS

see related
DENTAL PORCELAIN
Clinical results with titanium crowns fabricated with machine duplication and spark erosion. Andersson M, et al. **Acta Odontol Scand** 1989 Oct;47(5):279–86
A 2-year follow-up study of titanium crowns. Bergman B, et al. **Acta Odontol Scand** 1990 Apr;48(2):113–7
'Changing perceptions of the requirements of cavity preparations' [letter; comment] Roberts JF, et al. **Br Dent J** 1990 Mar 10;168(5):185–6 Comment on: Br Dent J 1990 Feb 24;168(4):138–9.
'DIY dentures!' [letter] Wallis R. **Br Dent J** 1990 Jun 9; 168(11):429–30
A review of clinical fixed prosthodontics from diagnosis to crown cementation (Part I—Diagnosis treatment planning). Lipkin JN, et al. **Can Dent Assoc J** 1989 Nov;55(11):893–5
Removal of restorative posts for the purpose of nonsurgical endodontic retreatment: report of cases [see comments] Chalfin H, et al. **J Am Dent Assoc** 1990 Feb;120(2):169–72 Comment in: J Am Dent Assoc 1990 Jun;120(6):650, 652.
Composite resin short-post technique for primary anterior teeth. Judd PL, et al. **J Am Dent Assoc** 1990 May; 120(5):553–5
A retrospective analysis of the perio-prosthetic aspect of teeth re-prepared during periodontal surgery. Carnevale G, et al. **J Clin Periodontol** 1990 May;17(5):313–6
Wear of prosthodontic materials—an in vivo study. Ekfeldt A, et al. **J Oral Rehabil** 1990 Mar;17(2):117–29
Effects of the porcelain firing sequence on the bond strengths of cements. Kanoy BE, et al. **J Oral Rehabil** 1989 Jul; 16(4):335–43
Conditioning of root canals prior to dowel cementation with composite luting cement and two dentine adhesive systems. Liberman R, et al. **J Oral Rehabil** 1989 Nov;16(6):597–602
Colour measurements of all ceramic crown systems. Rosenstiel SF, et al. **J Oral Rehabil** 1989 Sep;16(5):491–501
Systematized procedure of crown preparation. Bass EV, et al. **J Prosthet Dent** 1989 Oct;62(4):400–5
Comparison of conventional paint-on die spacers and those used with the all-ceramic restorations. Campbell SD. **J Prosthet Dent** 1990 Feb;63(2):151–5
Auxiliary pin retention for restoring severely worn anterior teeth. Chee WW, et al. **J Prosthet Dent** 1989 Oct; 62(4):385–90
Use of an elastomeric material to improve the occlusal seat and marginal seal of cast restorations. Davis SH, et al. **J Prosthet Dent** 1989 Sep;62(3):288–91
A provisional and new crown to fit into a clasp of an existing removable partial denture. Elledge DA, et al. **J Prosthet Dent** 1990 May;63(5):541–4
Cast connectors as cores for ceramometal pontics on removable partial dentures and for splinting anterior crowns. Fehling AW. **J Prosthet Dent** 1990 Feb; 63(2):167–71
Modification of a crown remover. Gallin DM. **J Prosthet Dent** 1990 Mar;63(3):364–5
Fracture resistance of amalgam coronal-radicular restorations. Kane JJ, et al. **J Prosthet Dent** 1990 Jun; 63(6):607–13
Load transfer of posts and cores to roots through cements. Leary JM, et al. **J Prosthet Dent** 1989 Sep;62(3):298–302
Prosthetic use of carbon fiber-reinforced epoxy resin for esthetic crowns and fixed partial dentures. Malquarti G, et al. **J Prosthet Dent** 1990 Mar;63(3):251–7
Effect of a silicone fit-indicator on crown retention in vitro. Millstein PL, et al. **J Prosthet Dent** 1989 Nov;62(5):510–1
Comparative study of luting agents with composite resin cores. Moody CR, et al. **J Prosthet Dent** 1989 Nov; 62(5):527–9
Temporization of abutment teeth preparations for existing removable partial dentures. Netti CA, et al. **J Prosthet Dent** 1989 Oct;62(4):428–30
Changes in retention of various telescope crown assemblies over long-term use. Ohkawa S, et al. **J Prosthet Dent** 1990 Aug;64(2):153–8
Comparison of the effects of three sprue designs on the internal porosity in crowns cast with a silver-free high-palladium alloy. Peregrina A, et al. **J Prosthet Dent** 1990 Aug;64(2):162–6
Mobile connection of veneer crowns after orthodontic closure of a wide diastema in the maxillae. A clinical report. Planert J, et al. **J Prosthet Dent** 1989 Oct;62(4):379–80
Evaluation of survey lines on polished crowns. Richardson DW, et al. **J Prosthet Dent** 1989 Oct;62(4):491
Apparent fracture toughness of all-ceramic crown systems. Rosenstiel SF, et al. **J Prosthet Dent** 1989 Nov;62(5):529–32
Visible light-cured shoulder-porcelain application. Salvo E. **J Prosthet Dent** 1990 Mar;63(3):359–61
The ceramic reverse three-quarter crown for anterior teeth: laboratory procedures. el Sherif MH, et al. **J Prosthet Dent** 1990 Aug;64(2):127–30
Altered corrosion resistance from casting to stainless steel posts. Sorensen JA, et al. **J Prosthet Dent** 1990 Jun; 63(6):630–7
A standardized method for determination of crown margin fidelity. Sorensen JA. **J Prosthet Dent** 1990 Jul;64(1):18–24 (32 ref.)
Amalgam crown restorations for posterior pulpless teeth. Starr CB. **J Prosthet Dent** 1990 Jun;63(6):614–9 (33 ref.)
Temperature rise in the pulp chamber during fabrication of provisional crowns. Tjan AH, et al. **J Prosthet Dent** 1989 Dec;62(6):622–6
Microscopic examination of embrittled pin-retained base metal casting. Walker RS, et al. **J Prosthet Dent** 1989 Sep; 62(3):348–52
Preventing aspiration or ingestion of single fixed restorations. Wilwerding TM. **J Prosthet Dent** 1990 Apr;63(4):489
Shoulder preparations for collarless metal ceramic crowns: hand-planning as opposed to rotary instrumentation. Zena RB, et al. **J Prosthet Dent** 1989 Sep;62(3):273–7
Post crown and apicoectomy combined operation in anterior teeth. Yi RL, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jan;69(1):90–4
Effect of casting atmosphere on the quality of Ti-crowns. Sunnerkrantz PA, et al. **Scand J Dent Res** 1990 Jun; 98(3):268–72
[Implant-bearing crowns and bridges. The indications, therapeutic planning and crown-bridge prosthetic aspects] Brägger U, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(6):730–40 **(Ger, Fre)**
[Steel crowns in pedodontics] van Waes H, et al. **Schweiz Monatsschr Zahnmed** 1989;99(7):794–807 (23 ref.) **(Ger, Fre)**
[Optimization of surgical tooth preservation using a fully ready-made post implant construction system for endodontic implantation] Staegemann G, et al. **Zahn Mund Kieferheilkd** 1989;77(5):414–20 (Eng. Abstr.) **(Ger)**
[A SEM evaluation of the surface color of Dicor crowns] Fraccari F, et al. **Minerva Stomatol** 1990 Jun;39(6):431–4 (Eng. Abstr.) **(Ita)**
[The results of the use of porcelain crowns prepared on refractory models] Perzashkevich LM, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):56 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Contact mucositis due to palladium. Downey D. **Contact Dermatitis** 1989 Jul;21(1):54
A rationale for comparison of plaque-retaining properties of crown systems. Sorensen JA. **J Prosthet Dent** 1989 Sep; 62(3):264–9 (87 ref.)
Vertical root fractures. Morfis AS. **Oral Surg Oral Med Oral Pathol** 1990 May;69(5):631–5
[Allergy to gold—a cause of denture intolerance] Kalamkarov KhA, et al. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):70–2 (Eng. Abstr.) **(Rus)**

STANDARDS

Guidelines for the restoration of endodontically treated teeth. Robbins JW. **J Am Dent Assoc** 1990 May;120(5):558, 560, 562 passim (94 ref.)

Marginal fit of porcelain-fused-to-metal and two types of ceramic crown. Hung SH, et al. **J Prosthet Dent** 1990 Jan; 63(1):26–31

STATISTICS & NUMERICAL DATA

The provision of crowns in the General Dental Service 1948–1988. Farrell TH, et al. **Br Dent J** 1989 Dec 9–23; 167(11):399–403

TRENDS

Changes over time in the clientele and restoration pattern in a dental school prosthodontic department. Silness J, et al. **Int Dent J** 1990 Apr;40(2):109–16

CRUDE OIL see **PETROLEUM**

CRUFOMATE see under **INSECTICIDES, ORGANOPHOSPHATE**

CRUOR see **POSTMORTEM CHANGES**

CRUSH SYNDROME see under **SHOCK, TRAUMATIC**

CRUSTACEA

see related
SHELLFISH

Organophosphate poisoning of Atlantic salmon in connection with treatment against salmon lice. Horsberg TE, et al. **Acta Vet Scand** 1989;30(4):385–90

A molluscan neuropeptide related to the crustacean hormone, RPCH. Kuroki Y, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):273–9

Effect of Bacillus thuringiensis israelensis (H-14) on the isopod Asellus forbesi and spring Aedes mosquitoes in Michigan. Knepper RG, et al.
J Am Mosq Control Assoc 1989 Dec;5(4):596–8

Calculation of water volume in step wells for cyclopicide application and its eco-epidemiological implication: mathematical validation of some theoretical considerations. Saxena VK, et al. **J Commun Dis** 1989 Sep;21(3):222–8

A model for studying isolation mechanisms in parasite populations: the genus Lepeophtheirus (Copepoda, Caligidae). De Meeus T, et al. **J Exp Zool** 1990 May; 254(2):207–14

[Study of the digestion and absorption of isolated krill proteins] Sokolova AG. **Vopr Pitan** 1989 Sep–Oct;(5):61–2 **(Rus)**

ANALYSIS

Determination of the presence of ceramide aminoethylphosphonate and ceramide N-methylaminoethylphosphonate in marine animals by fast atom bombardment mass spectrometry. Matsubara T, et al. **Biochim Biophys Acta** 1990 Feb 23;1042(3):280–6

Heavy metal concentrations in the banana prawn, Penaeus merguiensis, and leader prawn, P. monodon, in the Townsville region of Australia. Darmono D, et al.
Bull Environ Contam Toxicol 1990 Mar;44(3):479–86

Lead and cadmium concentrations in marine organisms from the Tarragona coastal waters, Spain. Schuhmacher M, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):784–9

ANATOMY & HISTOLOGY

Histological and histochemical studies of the male reproductive system of Ligia exotica Roux (Crustacea: Isopoda). Kumari CJ, et al. **Folia Morphol (Praha)** 1990; 38(1):107–12

Studies of the male reproductive system of the amphipod Orchestia platensis Krøyer (Crustacea: Amphipoda). Lalitha M, et al. **Folia Morphol (Praha)** 1990;38(1):77–82

Isolation of nerve terminals from crustacean muscle. Santiapillai NF, et al. **J Neurochem** 1989 Nov;53(5):1527–35

CYTOLOGY

Primary culture of crustacean stomatogastric ganglion neurones in a defined medium. Graf RA, et al.
J Exp Biol 1990 Mar;149:521–5

DRUG EFFECTS

Toxicity of carbofuran to selected macroinvertebrates in prairie ponds. Wayland M, et al.
Bull Environ Contam Toxicol 1990 Jul;45(1):74–81

Cyclopcidal activity of some new insect growth regulators. Sharma RN, et al. **Indian J Exp Biol** 1989 Dec; 27(12):1109–10

ENZYMOLOGY

A heat-stable alkaline phosphatase from Penaeus japonicus Bate (Crustacea: Decapoda): a phosphatidylinositol-glycan anchored membrane protein. Chuang NN.
Comp Biochem Physiol [B] 1990;95(1):165–9

Cytochrome P450 monooxygenases in crustaceans. James MO. **Xenobiotica** 1989 Oct;19(10):1063–76 (55 ref.)

GROWTH & DEVELOPMENT

Growth patterns in the eye of Petrolisthes elongatus (Crustacea; Decapoda; Anomura). Meyer-Rochow VB, et al. **Exp Biol** 1990;48(6):329–40

Hormonal control of molting in crustaceans. Huberman A. **Prog Clin Biol Res** 1990;342:205–10 (31 ref.)

[Variation in the level of free amino acids during larva development of Penaeus japonicus (Crustacea, Decapoda, Penaeidae] Marangos C, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):41–51 (Eng. Abstr.) **(Fre)**

METABOLISM

Sodium-coupled organic anion transport by Cancer borealis urinary bladder. Smith PM, et al. **Am J Physiol** 1990 Jul; 259(1 Pt 2):R147–56

Effects of temperature, and dietary magnesium and nickel levels on magnesium and nickel concentrations during the moult-cycle in Oniscus asellus (Porcellionidae, Isopoda, Crustacea). Alikhan MA. **Arch Int Physiol Biochim** 1990 Mar;98(1):11–8

Magnesium and manganese uptake, accumulation and regulation by a terrestrial isopod, Porcellio spinicornis Say (Porcellionidae, isopoda, Crustacea). Bercovitz K, et al. **Arch Int Physiol Biochim** 1989 Oct;97(5):361–8

Responses of the hepatopancreatic 'B' cells of a terrestrial isopod, Oniscus asellus, to metals accumulated from a contaminated habitat: a morphometric analysis. Morgan AJ, et al. **Bull Environ Contam Toxicol** 1990 Mar; 44(3):363–8

Accumulation of Am-241 and Cm-244 from water and sediments by Hyalella sp. and Tubifex spp. Sibley TH, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):165–72

Life table evaluation of the effects of cadmium exposure on the freshwater cladoceran, Moina macrocopa. Wong CK, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):135–41

Effect of stress on a freshwater benthic detritivore: scope for growth in Gammarus pulex. Maltby L, et al.
Ecotoxicol Environ Safety 1990 Jun;19(3):285–91

Field deployment of a scope for growth assay involving Gammarus pulex, a freshwater benthic invertebrate. Maltby L, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):292–300

Vitellogenin synthesis in andrectomized males of the terrestrial isopod, Armadillidium vulgare (malacostracan Crustacea). Suzuki S, et al. **Gen Comp Endocrinol** 1990 Feb; 77(2):283–91

Hyperglycemic neuropeptides in crustaceans. Keller R, et al. **Prog Clin Biol Res** 1990;342:265–71

MICROBIOLOGY

[Contamination of marine hydrobionts, used for preparing food products, by vibrio] Shikulov VA, et al.
Vopr Pitan 1989 Sep–Oct;(5):65–6 **(Rus)**

PARASITOLOGY

First record of Avioserpens larvae (Nematoda) from the naturally infected intermediate host. Moravec F, et al.
Folia Parasitol (Praha) 1990;37(1):93–4

Involvement of Mesocyclops leuckarti (claus) in the transmission of guineaworm infection in Thane Distt., Maharashtra. Sharma SK, et al. **J Commun Dis** 1989 Dec; 21(4):365–7

Horizontal transmission of Parathelohania anophelis to the copepod, Microcyclops varicans, and the mosquito, Anopheles quadrimaculatus. Avery SW, et al.
J Invertebr Pathol 1990 Jul;56(1):98–105

Dracunculus insignis in ferrets: comparison of inoculation routes. Brandt FH, et al. **J Parasitol** 1990 Feb;76(1):93–5

Movement of Pomphorhynchus bulbocolli larvae from the hemocoel to the peripheral circulation of Gammarus pseudolimnaeus. Gleason LN. **J Parasitol** 1989 Dec; 75(6):982–5

Epizootiology of Amblyospora connecticus (Microsporida) in field populations of the saltmarsh mosquito, Aedes cantator, and the cyclopoid copepod, Acanthocyclops vernalis. Andreadis TG. **J Protozool** 1990 May–Jun; 37(3):174–82

[Experimental evolutive cycle of Diphyllobothrium erinaceieuropei in Paracyclops fimbriatus, tadpoles of Bufo arenarum and dogs] Venturini L.
Rev Inst Med Trop Sao Paulo 1989 Sep–Oct;31(5):308–12 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Chronic toxicity and bioaccumulation of 2,5,2',5'- and 3,4,3',4'-tetrachlorobiphenyl and Aroclor 1242 in the amphipod Hyalella azteca. Borgmann U, et al.
Arch Environ Contam Toxicol 1990 Jul–Aug;19(4):558–64

An automated system for detection and analysis of locomotor behavior in crustaceans. Fernández de Miguel F, et al.
Bol Estud Med Biol 1989 Jul–Dec;37(3–4):71–6

Behavioral changes in Gammarus pulex and its significance in the toxicity assessment of very low levels of environmental pollutants. Borlakoglu JT, et al.
Bull Environ Contam Toxicol 1990 Aug;45(2):258–65

Effect of chemically contaminated marine sediment on naupliar production of the marine harpacticoid copepod, Tigriopus californicus. Misitano DA, et al.
Bull Environ Contam Toxicol 1990 Apr;44(4):636–42

Responses and LC50 values for selected microcrustaceans exposed to Spartan, Malathion, Sonar, Weedtrine-D and Oust pesticides. Naqvi SM, et al.
Bull Environ Contam Toxicol 1989 Sep;43(3):386–93

Toxicity of the organophosphate insecticide fenthion, alone and with thermal fog carriers, to an estuarine copepod and young fish. Thompson CQ, et al.
Bull Environ Contam Toxicol 1989 Nov;43(5):789–96

ERG-determined spectral and absolute sensitivities in relation to age and size in the halfcrab Petrolisthes elongatus (Crustacea; Decapoda; Anomura). Ziedins I, et al. **Exp Biol** 1990;48(6):319–28

Re: "Infection of a field population of Aedes cantator with a polymorphic microsporidium Amblyospora connecticus via release of the intermediate copepod host, Acanthocyclops vernalis" [letter; comment] Reid JW.
J Am Mosq Control Assoc 1989 Dec;5(4):616–9 Comment on: J Am Mosq Control Assoc 1989 Mar;5(1):81–5.

Influence of tadpole shrimp, Triops longicaudatus (Notostraca:Triopsidae), stocking rate on Culex tarsalis development in experimental field microcosms. Tietze NS, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):265–9

Natural control of larval Anopheles albimanus (Diptera: Culicidae) by the predator Mesocyclops (Copepoda: Cyclopoida). Marten GG, et al. **J Med Entomol** 1989 Nov; 26(6):624–7

Origin and early development of female germ cells in Eoleptestheria ticinensis Balsamo-Crivelli, 1859 (Crustacea, Branchiopoda, Conchostraca). Scanabissi Sabelli F, et al. **Mol Reprod Dev** 1990 May;26(1):47–52

Responses of the fish ectoparasite Salmincola edwardsii (Copepoda) to stimulation, and their implication for host-finding. Poulin R, et al. **Parasitology** 1990 Jun;100 Pt 3:417–21

Eicosanoids in corals and crustaceans: primary metabolites that function as allelochemicals and pheromones. Gerhart DJ, et al. **Prog Clin Biol Res** 1990;342:598–602 (31 ref.)

What mechanisms coordinate leg movement in walking arthropods? Cruse H. **Trends Neurosci** 1990 Jan;13(1):15–21 (42 ref.)

[Aegla platensis Schmitt, 1942 (Decapoda: Anomura) a predator of immature stages of Simuliidae (Diptera: Culicomorpha)] Magni ST, et al. **Rev Saude Publica** 1989 Jun;23(3):258–9 (Eng. Abstr.) **(Por)**

CRUTCHES

Axillary crutch walking: effects of three training programs. Bhambhani YN, et al. **Arch Phys Med Rehabil** 1990 Jun; 71(7):484–9

Aided gait in rheumatoid arthritis following knee arthroplasty. Crosbie WJ, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):299–303

The orthopaedic scooter. An energy-saving aid for assisted ambulation. Roberts P, et al. **J Bone Joint Surg [Br]** 1990 Jul;72(4):620–1

Energy expenditure of ambulation using the Sure-Gait crutch and the standard axillary crutch [see comments] Annesley AL, et al. **Phys Ther** 1990 Jan;70(1):18–23 Comment in: Phys Ther 1990 Jul;70(7):455–6.

Energy cost, exercise intensity, and gait efficiency of standard versus rocker-bottom axillary crutch walking. Nielsen DH, et al. **Phys Ther** 1990 Aug;70(8):487–93

[The use and advantages of walking aids with shock absorbers] Cavlak Y, et al. **Aktuel Traumatol** 1990 Apr; 20(2):110–1 **(Ger)**

ADVERSE EFFECTS

Dorsal interosseous neuropraxic compression syndrome [letter; comment] Ball NA, et al. **Muscle Nerve** 1990 Feb; 13(2):172 Comment on: Muscle Nerve 1988 Dec;11(12):1273–4.

[The "crutch paralysis" affects not only the brachial nerves (letter)] Campos C, et al. **Neurologia** 1989 Oct;4(8):300 **(Spa)**

STANDARDS

Clinical evaluation of the rocker bottom crutch. Basford JR, et al. **Orthopedics** 1990 Apr;13(4):457–60

CRUVEILHIER-BAUMGARTEN SYNDROME see under **HYPERTENSION, PORTAL**

CRYING

Crying, feeding and sleeping patterns in 1 to 12-month-old infants. Michelsson K, et al. **Child Care Health Dev** 1990 Mar-Apr;16(2):99–111

Verbal and behavioral responsiveness to the cries of atypical infants. Frodi A, et al. **Child Dev** 1990 Feb;61(1):76–84

Critical care problems of the newborn: neonatal diaphragmatic paralysis and crying vital capacity. Andreou A, et al. **Crit Care Med** 1976 Nov-Dec;4(6):308–10

The normal crying curve: what do we really know? Barr RG. **Dev Med Child Neurol** 1990 Apr;32(4):356–62

Very young infants yawn or cry after watching animated programs [letter] Mizukami K, et al.
J Dev Behav Pediatr 1990 Jun;11(3):163

Crying and laughing after brain damage: a confused nomenclature [letter] Allman P.
J Neurol Neurosurg Psychiatry 1989 Dec;52(12):1439–40

Laughter and tears: best medicine for stress. Dugan DO. **Nurs Forum** 1989;24(1):18–26

Corneal abrasion in infancy as a cause of inconsolable crying. Harkness MJ. **Pediatr Emerg Care** 1989 Dec;5(4):242–4

A crying baby. Field D, et al. **Practitioner** 1990 Apr 8; 234(1486):317–20

[Infant characteristics and anger reduction] Mischkulnig M.

Z Exp Angew Psychol 1989;36(4):567–78 (Eng. Abstr.) (Ger)

PHYSIOLOGY

Early detection of infants at risk for later handicap through acoustic cry analysis. Lester BM, et al. **Birth Defects** 1989; 25(6):99–118

Influence of crying on plasma renin activity and aldosterone concentration. Shimomura K, et al. **Eur J Pediatr** 1989 Oct;149(1):18–9

PSYCHOLOGY

Pathologic laughter and crying in ALS: a search for their origin. Gallagher JP. **Acta Neurol Scand** 1989 Aug; 80(2):114–7

Effects of infant cries on alcohol consumption in college males at risk for child abuse. Stasiewicz PR, et al. **Child Abuse Negl** 1989;13(4):463–70

Perinatal information on infant crying. Downey J, et al. **Child Care Health Dev** 1990 Mar–Apr;16(2):113–21

Conspecific screams and laughter: cardiac and behavioral reactions of infant chimpanzees. Berntson GG, et al. **Dev Psychobiol** 1989 Dec;22(8):771–87

CRYING CAT SYNDROME see CRI-DU-CHAT SYNDROME

CRYOANESTHESIA see HYPOTHERMIA, INDUCED

CRYOGLOBULINEMIA

[Leukocytoclastic vasculitis] Grasso E, et al. **Pediatr Med Chir** 1989 Mar–Apr;11 Suppl 1:23–9 (50 ref.) (Eng. Abstr.) (Ita)

BLOOD

Coulter S Plus STKR histograms detect spurious elevation of leucocyte and platelet counts associated with cryoglobulinaemia. Pagliuca A, et al. **Blut** 1989 Oct; 59(4):396–7

Blood viscosity and filtration abnormalities in mixed cryoglobulinemia patients. Ferri C, et al. **Clin Exp Rheumatol** 1990 May–Jun;8(3):271–81

Cytological and ultrastructural assessment of free crystals or precipitates associated with pseudoleukocytosis and pseudothrombocytosis in cryoglobulinemia. Zandecki M, et al. **Nouv Rev Fr Hematol** 1989;31(6):397–402

[Artificial increase in leukocyte and platelet counts disclosing type II cryoglobulinemia (letter)] Zandecki M, et al. **Presse Med** 1989 Oct 28;18(35):1756 (Fre)

[Cryoglobulinemia in Sjögren's syndrome] Vasil'ev VI, et al. **Ter Arkh** 1990;62(5):66–70 (Eng. Abstr.) (Rus)

COMPLICATIONS

Mixed essential cryoglobulinemia and adult respiratory distress syndrome: a case report. Stagg MP, et al. **Am J Med** 1989 Oct;87(4):445–8

Pathogenesis of paraneoplastic follicular hyperkeratotic spicules in multiple myeloma. Follicular and epidermal accumulation of IgG dysprotein and cryoglobulin. Bork K, et al. **Arch Dermatol** 1990 Apr;126(4):509–13

Cutaneous manifestations of cystic fibrosis: possible role of cryoglobulins. Garty BZ, et al. **Br J Dermatol** 1989 Nov; 121(5):655–8

The frequency of cryoglobulinaemia in systemic sclerosis (scleroderma) [letter] Buskila D, et al. **Br J Rheumatol** 1990 Jun;29(3):234

Peripheral nervous system involvement in essential cryoglobulinemia and nephropathy. Valli G, et al. **Clin Exp Rheumatol** 1989 Sep–Oct;7(5):479–83

Anticentromere antibody positive CREST syndrome associated with polyarthritis, renal impairment and mixed cryoglobulinaemia. Shetty HG, et al. **Clin Rheumatol** 1989 Sep;8(3):381–5

Hepatitis C virus in patients with cryoglobulinemia type II [letter] Pascual M, et al. **J Infect Dis** 1990 Aug;162(2):569–7

[A 73-year-old patient with varying, ulcerating skin necroses of the distal extremities] Beuckelmann DJ, et al. **Internist (Berl)** 1989 Nov;30(11):764–7 (Ger)

[Blood cryoglobulins and liver diseases] Monteverde A, et al. **Ann Ital Med Int** 1987 Oct–Dec;2(4):276–86 (Eng. Abstr.) (Ita)

[Cryoglobulins] Yoshida H. **Ryumachi** 1989 Jun;29(3):220–7 (86 ref.) (Jpn)

[Pulmonary hemorrhage and glomerulonephritis associated with essential mixed cryoglobulinemia] Madrenas J, et al. **Med Clin (Barc)** 1989 Sep 16;93(7):262–4 (Eng. Abstr.) (Spa)

[Neuropathy in mixed essential cryoglobulinemia: incidence and features] Michán Doña AL, et al. **Neurologia** 1988 Jan–Feb;3(1):9–13 (24 ref.) (Eng. Abstr.) (Spa)

DIAGNOSIS

A case of rash and digital necrosis. Fleet WF 3d, et al. **J Tenn Med Assoc** 1990 May;83(5):239–40

Artefacts associated with a cryoglobulin. Hambley H, et al. **Postgrad Med J** 1989 Apr;65(762):241–3

[Petechiae, microhematuria, colic-like abdominal pain (clinical conference)] Weber B, et al. **Schweiz Rundsch Med Prax** 1990 Jun 19;79(25):809–12 (Eng. Abstr.) (Ger)

[Essential mixed cryoglobulinemia with liver involvement: a still open problem] Grieco A, et al. **Minerva Med** 1990 Jul–Aug;81(7–8):517–22 (Eng. Abstr.) (Ita)

DIET THERAPY

Low-antigen-content diet in the treatment of patients with mixed cryoglobulinemia. Ferri C, et al. **Am J Med** 1989 Nov;87(5):519–24

DRUG THERAPY

Disappearance of cryoglobulinemia with improvement in other immune parameters in a case of primary biliary cirrhosis treated with colchicine [letter] Delpré G, et al. **Gastroenterol Clin Biol** 1990;14(2):182–3

Double-blind study on the antiproteinuric effect of captopril versus placebo in cryoglobulinaemic glomerulonephritis: a Franco-Hispano-Italian study [letter] **Nephrol Dial Transplant** 1989;4(9):839

EPIDEMIOLOGY

Dysproteinemias and cryoglobulinemia. Kyle RA. **Curr Opin Rheumatol** 1989 Aug;1(2):221–5 (25 ref.)

First report case of cryoglobulinemia and cryofibrinogenemia in Thailand. Vithayasai P, et al. **J Med Assoc Thai** 1989 Sep;72(9):536–40

ETIOLOGY

Vasculitis and cryoglobulinemia associated with persisting cholestatic hepatitis A virus infection. Ilan Y, et al. **Am J Gastroenterol** 1990 May;85(5):586–7

[Mixed cryoglobulinemia secondary to Mediterranean boutonneuse fever] Pérez Calvo JI, et al. **Rev Clin Esp** 1990 Feb;186(2):82–3 (Eng. Abstr.) (Spa)

IMMUNOLOGY

[Clonal immunoglobulin rearrangement in patients with essential cryoglobulinemia] Perl A, et al. **Orv Hetil** 1990 May 13;131(19):1019–22 (Eng. Abstr.) (Hun)

PHYSIOPATHOLOGY

Lung function in essential mixed cryoglobulinemia: a short-term follow-up. Viegi G, et al. **Clin Rheumatol** 1989 Sep;8(3):331–8

PREVENTION & CONTROL

Prevention of murine cryoglobulinemia and associated pathology by monoclonal anti-idiotypic antibody. Spertini F, et al. **J Immunol** 1989 Oct 15;143(8):2508–13

THERAPY

Temperature dependent protein removal by large pore membrane filtration. Zborowski M, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):572–5

Limitation of plasmapheresis in cryoglobulinemia with high levels of cryoglobulins. Yamashita M, et al. **Prog Clin Biol Res** 1990;337:491–4

CRYOGLOBULINS

Structural properties of an anti-fluorescein monoclonal IgM cryoglobulin. Dombrink-Kurtzman MA, et al. **Mol Immunol** 1989 Aug;26(8):779–87

ANALYSIS

Cryoglobulins in a patient with SLE, livedo reticularis, and elevated level of anticardiolipin antibodies [letter; comment] Yancey WB Jr, et al. **Am J Med** 1990 Jun; 88(6):699 Comment on: Am J Med 1989 Oct;87(4):408–10.

Interference by cryoglobulins in a light-scatter instrument [letter] Banfi G, et al. **Clin Lab Haematol** 1990;12(1):112–4

Cryoglobulin studies in systemic lupus erythematosus. Sikander F, et al. **J Postgrad Med** 1989 Jul;35(3):139–43

Invalidation of antiglobulin tests by a high thermal amplitude cryoglobulin. Ylagen ES, et al. **Transfusion** 1990 Feb; 30(2):154–7

[Clinical significance of cryoglobulin analysis in biochemical tests] Iimura Y. **Nippon Rinsho** 1989 Dec;48 Suppl:107–10 (Jpn)

[Assessment of the cryoglobulins in the blood taking into consideration the circulating immune components] Konstantinova NA, et al. **Lab Delo** 1989;(11):62–5 (Eng. Abstr.) (Rus)

GENETICS

Transient nephrotic syndrome after anaesthesia resulting from a familial cryofibrinogen precipitating at 35 degrees C. Lolin Y, et al. **J Med Genet** 1989 Oct;26(10):631–6

IMMUNOLOGY

Cryoglobulin studies in systemic lupus erythematosus. Sikander F, et al. **J Postgrad Med** 1989 Jul;35(3):139–43

[Cryoglobulins] Yoshida H. **Ryumachi** 1989 Jun;29(3):220–7 (86 ref.) (Jpn)

ISOLATION & PURIFICATION

Limitation of plasmapheresis in cryoglobulinemia with high levels of cryoglobulins. Yamashita M, et al. **Prog Clin Biol Res** 1990;337:491–4

METABOLISM

Temperature dependent protein removal by large pore membrane filtration. Zborowski M, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):572–5

CRYOPRESERVATION

Cryopreserved 3T3 fibroblasts retain their capacity to enhance the growth of human keratinocyte cultures. Hunyadi J, et al. **Acta Derm Venereol (Stockh)** 1989; 69(6):509–12

Effect of preservation medium on the mechanical properties of cat bones. Goh JC, et al. **Acta Orthop Scand** 1989 Aug; 60(4):465–7

Can storage of thawed cryoprecipitate be extended to more than six hours? Saxena S, et al. **Am J Clin Pathol** 1990 Aug;94(2):203–6

Pregnancy rates with fresh versus computer-controlled cryopreserved semen for artificial insemination by donor in a private practice setting. DiMarzo SJ, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1483–8; discussion 1488–90

Cryopreservation of Trichinella spiralis muscle stage larvae. Jackson-Gegan M, et al. **Am J Trop Med Hyg** 1988 May; 38(3):558–67

Stability of plasma glucose during storage. Clark ML, et al. **Ann Clin Biochem** 1990 Jul;27 (Pt 4):373–7

Superior myocardial preservation with modified UW solution after prolonged ischemia in the rat heart. Yeh T Jr, et al. **Ann Thorac Surg** 1990 Jun;49(6):932–9

Ultrastructural changes in membranes and acrosome of human sperm during cryopreservation. Barthelemy C, et al. **Arch Androl** 1990;25(1):29–40

Assessment of the viability of haemopoietic cells in the livers of mouse fetuses stored at 4 degrees C. Comparison of various methods of testing their usefulness for haemopoietic transplantation. Ratajczak MZ, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3–4):269–76

Utilization patterns of frozen autologous red blood cells. Experience in a referral center and a community hospital. DePalma L, et al. **Arch Pathol Lab Med** 1990 May; 114(5):516–8

Cryopreservation of innervation, endothelial and vascular smooth muscle function of a rabbit muscular and resistance artery. Thompson L, et al. **Blood Vessels** 1989;26(3):157–64

Semen cryopreservation in men undergoing cancer chemotherapy—a UK survey. Milligan DW, et al. **Br J Cancer** 1989 Dec;60(6):966–7

Is routine pre-treatment cryopreservation of semen worthwhile in the management of patients with testicular cancer? Fossa SD, et al. **Br J Urol** 1989 Nov;64(5):524–9

Lipids in bone: optimal conditions for tissue storage prior to lipid analyses. Mularchuk P, et al. **Calcif Tissue Int** 1990 Jan;46(1):57–9

Therapeutic donor insemination with frozen semen. Scott SG, et al. **Can Med Assoc J** 1990 Aug 15;143(4):273–8

Chromosome analysis of cryopreserved cells. McConnell TS, et al. **Cancer Genet Cytogenet** 1990 Apr;45(2):179–91

Decreased storage stability of creatine kinase in a cardiac reperfusion solution. Dunphy G, et al. **Clin Chem** 1990 May; 36(5):778–80

Effect of repeated freezing and thawing on vitamins and hormones in serum. Hsing AW, et al. **Clin Chem** 1989 Oct; 35(10):2145

Whose embryo is it? Healey JM. **Conn Med** 1990 Feb; 54(2):105

Abstracts of papers presented at the twenty-sixth annual meeting of the Society of Cryobiology. June 11–16, 1989, Charleston, South Carolina. **Cryobiology** 1989 Dec; 26(6):535–600

Redefining cooling rate in terms of ice front velocity and thermal gradient: first evidence of relevance to freezing injury of lymphocytes. Beckmann J, et al. **Cryobiology** 1990 Jun;27(3):279–87

Theoretical prediction of devitrification tendency: determination of critical warming rates without using finite expansions. Boutron P, et al. **Cryobiology** 1990 Aug; 27(4):359–77 (40 ref.)

Tolerance of human corneal endothelium to glycerol. Brunette I, et al. **Cryobiology** 1989 Dec;26(6):513–23

Drug metabolism and viability studies in cryopreserved rat hepatocytes. Coundouris JA, et al. **Cryobiology** 1990 Jun; 27(3):288–300

The effects of cryopreservation on membrane integrity, membrane transport, and protein synthesis in rat hepatocytes. De Loecker R, et al. **Cryobiology** 1990 Apr; 27(2):143–52

A two-step method for permeabilization of Drosophila eggs. Lynch DV, et al. **Cryobiology** 1989 Oct;26(5):445–52

Experimental dissection of devitrification in aqueous solutions of 1,3-butanediol. Mehl PM. **Cryobiology** 1990 Aug;27(4):378–400

Thermographic studies of phantom and canine kidneys thawed by microwave radiation. Schmehl MK, et al. **Cryobiology** 1990 Jun;27(3):311–8

Effect of dimethyl sulfoxide and protein concentration on the viability of two-cell mouse embryos frozen with a rapid freezing technique. Shaw JM, et al. **Cryobiology** 1989 Oct; 26(5):413–21

The cryobiology of rat and human dendritic cells: preservation and destruction of membrane integrity by freezing. Taylor MJ, et al. **Cryobiology** 1990 Jun; 27(3):269–78

Cryopreservation enhances interleukin-1 production in human mononuclear cells. Venkataraman M, et al. **Cryobiology** 1990 Apr;27(2):137–42

Cryopreserved autologous bone marrow transplantation in patients with acute nonlymphoid leukemia: chemotherapy before harvesting is the main factor in delaying hematological recovery. Visani G, et al. **Cryobiology** 1990 Apr;27(2):103–6

Cryogenic preservation of mammalian testicular material for synaptonemal complex analysis. Sudman PD. **Cytogenet Cell Genet** 1989;52(1–2):88–9

Cryopreservation of mammalian eggs and embryos. Wilmut I. **Dev Biol (N Y 1985)** 1986;4:217–47 (88 ref.)

Endothelial function can be preserved during cryo-storage of human saphenous vein. Passani SL, et al. **Eur J Cardiothorac Surg** 1988;2(4):233–6

Cryopreservation of human brain tissue. Robbins RJ, et al. **Exp Neurol** 1990 Mar;107(3):208–13

The management of predicted ovarian hyperstimulation involving gonadotropin-releasing hormone analog with elective cryopreservation of all pre-embryos. Amso NN, et al. **Fertil Steril** 1990 Jun;53(6):1087–90

Pregnancy after transfer of cryopreserved embryos in clomiphene citrate resistant polycystic ovarian syndrome. Dale PO, et al. **Fertil Steril** 1990 Feb;53(2):362–4

Clinical status of human embryo cryopreservation in the United States of America [see comments] Fugger EF. **Fertil Steril** 1989 Dec;52(6):986–90 Comment in: Fertil Steril 1990 May;53(5):952.

Survival and pregnancy outcome after ultrarapid freezing of human embryos. Gordts S, et al. **Fertil Steril** 1990 Mar; 53(3):469–72

Cryopreservation and its problems. Jones HW Jr. **Fertil Steril** 1990 May;53(5):780–4

The efficacy of cryopreserved hamster ova in the sperm penetration assay. Leibo SP, et al. **Fertil Steril** 1990 May; 53(5):906–12

To publish or not to publish? [letter; comment] Quinn P, et al. **Fertil Steril** 1990 May;53(5):952 Comment on: Fertil Steril 1989 Dec;52(6):986–90.

Birth of a triplet after transfer of four frozen-thawed embryos. Ron-El R, et al. **Fertil Steril** 1989 Oct;52(4):678–9

Transfer of cryopreserved-thawed embryos: the natural cycle versus controlled preparation of the endometrium with gonadotropin-releasing hormone agonist and exogenous estradiol and progesterone (GEEP). Schmidt CL, et al. **Fertil Steril** 1989 Oct;52(4):609–16

Problems in the cryopreservation of unfertilized eggs by slow cooling in dimethyl sulfoxide. Trounson A, et al. **Fertil Steril** 1989 Nov;52(5):778–86

Antioxidants for bone marrow cryopreservation. Matthes G, et al. **Folia Haematol (Leipz)** 1989;116(3–4):451–4

Cryopreservation of marrow, purging and autologous bone marrow transplantation in childhood. Reiners B, et al. **Folia Haematol (Leipz)** 1989;116(3–4):601–8

Resolving disputes over frozen embryos. Robertson JA. **Hastings Cent Rep** 1989 Nov–Dec;19(6):7–12

Frozen storage of Ham's F10 medium for human in-vitro fertilization. Bernart W, et al. **Hum Reprod** 1990 Jul; 5(5):610–2

Artificial procreation with frozen donor semen: experience of the French Federation CECOS. Le Lannou D, et al. **Hum Reprod** 1989 Oct;4(7):757–61

Cryopreservation of gametes and cleavage stage embryos. Siebzehnrübl ER. **Hum Reprod** 1989 Nov;4(8 Suppl):105–10 (38 ref.)

Comparative results on survival of human and animal eggs using different cryoprotectants and freeze–thawing regimens. I. Mouse and hamster. Todorow SJ, et al. **Hum Reprod** 1989 Oct;4(7):805–11

Observations on the morphology of pronuclei and nucleoli in human zygotes and implications for cryopreservation. Wright G, et al. **Hum Reprod** 1990 Jan;5(1):109–15

Postmitotic human dermal fibroblasts preserve intact feeder properties for epithelial cell growth after long-term cryopreservation. Limat A, et al. **In Vitro Cell Dev Biol** 1990 Jul;26(7):709–12

Survival of mouse embryos after being frozen in glycerol–sucrose mixture. Agrawal KP, et al. **Indian J Exp Biol** 1989 May;27(5):474–5

Effect of freezing on ultrastructure of chimpanzee sperms as revealed by ethanol cryofracture and scanning electron microscope. Gopalakrishnan K, et al. **Indian J Exp Biol** 1990 Feb;28(2):114–8

A simplified method for purification, concentration and freezing of bone marrow cells for autologous transplantation. Wendel S, et al. **Int J Artif Organs** 1990 Apr;13(4):247–53

Rapid technique for cryopreservation of Echinococcus multilocularis metacestodes. Bretagne S, et al. **Int J Parasitol** 1990 Apr;20(2):265–7

Isolation of Onchocerca gibsoni tissue from frozen nodules for biochemical use. Semprevivo LH, et al. **Int J Parasitol** 1989 Dec;19(8):957–9

Freeze-dried bank bone. Delloye C, et al. **Ital J Orthop Traumatol** 1989 Sep;15(3):343–52

Cryopreservation of mammalian sperm: what we ask them to survive. Hammerstedt RH, et al. **J Androl** 1990 Jan–Feb; 11(1):73–88 (85 ref.)

Design of experiments for evaluating frozen sperm. Rosenberger JL. **J Androl** 1990 Mar–Apr;11(2):89–96 (25 ref.)

The preservation of micro-organisms in biological specimens stored at–70 degrees C. Ludlam HA, et al. **J Appl Bacteriol** 1989 Oct;67(4):417–23

Viability of long-term cryopreserved human saphenous veins. Louagie YA, et al. **J Cardiovasc Surg (Torino)** 1990 Jan–Feb;31(1):92–100

Cryopreserved saphenous vein homografts for femoral-distal vascular reconstruction. Sellke FW, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):838–42

An improved method for preparation, stabilization, and storage of house fly (Diptera: Muscidae) microsomes. Lee SS, et al. **J Econ Entomol** 1989 Dec;82(6):1559–63

Morphology of rat exocrine pancreas prepared by anhydrous cryo-procedures. Roos N, et al. **J Electron Microsc Tech** 1990 Jan;14(1):39–45

An improved method for preparing cryostat sections of undecalcified bone for multiple uses. Hill EL, et al. **J Histochem Cytochem** 1990 Mar;38(3):443–8

Elective preembryo cryopreservation in ovarian hyperstimulation syndrome. Amso NN, et al. **J In Vitro Fert Embryo Transf** 1989 Oct;6(5):312–4

Ultrastructural preservation of nuclei and chromatin: improvement with low-temperature methods. Horowitz RA, et al. **J Microsc** 1990 Feb;157 (Pt 2):205–24

Freeze-substitution without aldehyde or osmium fixatives: ultrastructure and implications for immunocytochemistry. Monaghan P, et al. **J Microsc** 1990 Jun;158 (Pt 3):355–63

Long-term cultivation of cryopreserved human fetal brain cells in a chemically defined medium. Haselbacher G, et al. **J Neurosci Methods** 1989 Nov;30(2):121–31

Inhibition of autoradiolysis of radiolabeled monoclonal antibodies by cryopreservation. Wahl RL, et al. **J Nucl Med** 1990 Jan;31(1):84–9

Nutrient broth for the cultivation of Leishmania. Kaddu JB, et al. **J Parasitol** 1990 Apr;76(2):265–6

Solvent effects on cytoskeletal organization and in-vivo survival after freezing of rabbit oocytes. Vincent C, et al. **J Reprod Fertil** 1989 Nov;87(2):809–20

Auxiliary liver by transplanted frozen-thawed hepatocytes. Maganto P, et al. **J Surg Res** 1990 Jan;48(1):24–32

Mechanical testing of cryopreserved aortic allografts. Comparison with xenografts and fresh tissue. Vesely I, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):119–23

Functional analysis of cryopreserved veins. Preliminary report. Brockbank KG, et al. **J Vasc Surg** 1990 Jan; 11(1):94–100; discussion 100–2

Cryopreservation of unfertilized mouse oocytes from inbred strains by ultrarapid freezing. Nakagata N. **Jikken Dobutsu** 1990 Apr;39(2):303–5

How robust are early human embryos? [letter] Macnamee M, et al. **Lancet** 1990 Sep 8;336(8715):636

Cryo-preservation of Lactobacillus leichmannii for vitamin B12 microbiological assay. Kelleher BP, et al. **Med Lab Sci** 1990 Apr;47(2):90–6

Successful banking of pancreatic endocrine cells for transplantation. Tze WJ, et al. **Metabolism** 1990 Jul; 39(7):719–23

Biochemical consequences of reflushing hypothermically-stored liver with fresh cold perfusate. Studies on rat liver using 31P NMR spectroscopy. Busza AL, et al. **NMR Biomed** 1989 Sep;2(3):115–9

Cryogenically preserved adult and juvenile goat mandibular condylar transplantation. Bifano CA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Mar;69(3):291–8

Cryopreservation and storage of human bone marrow: a survey of current practices. Areman EM, et al. **Prog Clin Biol Res** 1990;333:523–9

Human sperm chromosome complements: effects of donor age, freezing and segregation in translocation and inversion carriers. Martin RH. **Prog Clin Biol Res** 1990;340B:435–45 (36 ref.)

Effects of freezing–thawing on the spermatozoon nucleus: a comparative chromatin cytophotometric study in the porcine and human species. Hamamah S, et al. **Reprod Nutr Dev** 1990;30(1):59–64

Improved representation of cell surface structures by freeze substitution and backscattered electron imaging. Walther P, et al. **Scanning Microsc Suppl** 1989;3:201–10; discussion 211

Cold storage. Winter-proof critters suggest ways to store human organs [news] Ross PE. **Sci Am** 1990 Feb; 262(2):20–1

The effects of freezing or freeze-drying on the biomechanical properties of the canine intervertebral disc. Flynn J, et al. **Spine** 1990 Jun;15(6):567–70

Cryopreservation of neonatal rat islet tissue. Payne WD, et al. **Surg Forum** 1978;29:347–9

In vitro assessment of parathyroid immunogenicity: the effect of cryopreservation. Saxe AW, et al. **Surgery** 1990 Jul; 108(1):56–62

Cryopreserved venous homografts as vascular conduits in canine carotid arteries. Showalter D, et al. **Surgery** 1989 Oct;106(4):652–8; discussion 658–9

Cryopreservation of Cryptosporidium sp. oocysts. Rossi P, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):68

Onchocerca gutturosa and O. volvulus: studies on the viability and drug responses of cryopreserved adult worms in vitro. Townson S, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct;83(5):664–9

Australian frozen vaccines for the control of babesiosis and anaplasmosis in cattle—a review. Dalgliesh RJ, et al. **Trop Anim Health Prod** 1990 Feb;22(1):44–52 (19 ref.)

Long-term cryopreservation, infectivity and characterisation of Oesophagostomum dentatum. Berghen P, et al. **Zentralbl Veterinarmed [B]** 1990 Aug;37(6):477–80

[The clinical application and viability assay of deep frozen stillborn skin] Zhang GD. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):96–7 **(Chi)**

[Penetrating keratoplasty with long-term cryopreserved corneas] Wang CF. **Chung Hua Yen Ko Tsa Chih** 1990 Jan; 26(1):17–20 (Eng. Abstr.) **(Chi)**

[Initial experience with cryopreservation of human embryos] Hanzelka Z, et al. **Cesk Gynekol** 1989 Dec;54(10):729–32 (Eng. Abstr.) **(Cze)**

[Developmental capacity of human embryos after cryopreservation in the unicellular zygote stage] Tesařík J, et al. **Cesk Gynekol** 1989 Dec;54(10):740–7 (Eng. Abstr.) **(Cze)**

[The effect of blood platelet freezing on their antigen activity] Vopatová M, et al. **Vnitr Lek** 1989 Oct;35(10):982–6 (Eng. Abstr.) **(Cze)**

[Frozen nerve allografts. An experimental study in the rat] Katz D, et al. **Ann Chir Main** 1989;8(4):329–33 **(Fre)**

[The value of perforating cryopreserved massive bone allograft. Histologic data of an allograft removed after 27 months] Babin SR, et al. **Rev Chir Orthop** 1990;76(2):137–40 (Eng. Abstr.) **(Fre)**

[Quantitative immunohistochemical studies of insulin and glucagon cells of the fetal rat pancreas before and after cryopreservation] Hahn von Dorsche V, et al. **Anat Anz** 1990;170(1):79–82 (Eng. Abstr.) **(Ger)**

[Long-term cryopreservation of microbial strains relevant to food hygiene] Beutling D. **Arch Exp Veterinarmed** 1989 Nov;43(6):835–41 (Eng. Abstr.) **(Ger)**

[Cryopreservation of bovine embryos] Falge R, et al. **Arch Exp Veterinarmed** 1990;44(1):127–34 (Eng. Abstr.) **(Ger)**

[The sperm compatibility of lincospectin in the framework of the Federal Republic of Germany customary bull sperm preservation methods with the use of a Tris egg yolk thinner (clinical short report)] Krause D, et al. **DTW Dtsch Tierarztl Wochenschr** 1989 Nov–Dec; 96(10):508, 510 (Eng. Abstr.) **(Ger)**

[The first clinical experience with cryopreserved erythrocyte concentrate] Pfefferkorn S, et al. **Folia Haematol (Leipz)** 1989;116(5):793–7 (Eng. Abstr.) **(Ger)**

[The MTT-dye test for the in vitro vitality control of fresh as opposed to cryopreserved rat pancreatic islets for syngeneic intraportal islet transplantation] Gütte N, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):323–9 (Eng. Abstr.) **(Ger)**

[Viability assay of cryopreserved bone marrow cells before autologous transplant] De Caro L, et al. **Boll Soc Ital Biol Sper** 1988 Oct;64(10):893–900 (Eng. Abstr.) **(Ita)**

[Flow cytometric DNA analysis of frozen samples] Kawasaki M, et al. **Gan No Rinsho** 1989 Oct;35(12):1429–31 (Eng. Abstr.) **(Jpn)**

[Cryopreservation of mouse strains by ultrarapid freezing] Nakagata N. **Jikken Dobutsu** 1990 Apr;39(2):299–301 (Eng. Abstr.) **(Jpn)**

[The anti-mutagenic effects of human saliva investigated by umu-test. Part 1. Effects of filtration and storage at low temperatures] Okada M, et al. **Nippon Eiseigaku Zasshi** 1989 Dec;44(5):1009–13 (Eng. Abstr.) **(Jpn)**

[Application of a new compact and cell dense continuous culture system for LAK cells generated from cryo-preserved lymphocytes] Nakamura Y, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Mar 20;25(3):598–602 (Eng. Abstr.) **(Jpn)**

[Deep-freezing of human preimplantation embryos] Maltau JM. **Tidsskr Nor Laegeforen** 1990 Jan 10;110(1):20–1 **(Nor)**

[Freezing, thawing and transfer of human embryos] Sunde A, et al. **Tidsskr Nor Laegeforen** 1990 Jan 10;110(1):26–9 (Eng. Abstr.) **(Nor)**

[The dielectric breakdown of membranes during cryopreservation of biological objects] Grishchenko VI, et al. **Dokl Akad Nauk SSSR** 1989 Sep–Oct;308(1):215–7 **(Rus)**

[Study of the complement system and the inhibitors of plasma proteolytic enzymes in the erythrocytes during blood preservation] Krizhevskaia IuV, et al. **Gematol Transfuziol** 1990 May;35(5):18–21 (Eng. Abstr.) **(Rus)**

[Changes in the pH of leukocyte granules during the storage of preserved donor blood] Shestova OLO, et al. **Gematol Transfuziol** 1989 Dec;34(12):28–32 (Eng. Abstr.) **(Rus)**

[The effect of initial bioenergetic state on the cryostability of yeast cells] Tsutsaeva AA, et al. **Mikrobiologiia** 1989 Sep–Oct;58(5):785–90 (Eng. Abstr.) **(Rus)**

[Cryostability of yeast cells and their sensitivity to basic factors of freezing] Tsutsaeva AA, et al. **Mikrobiologiia** 1989 Mar–Apr;58(2):339–45 (Eng. Abstr.) **(Rus)**

[Cryobiology: a new science] García López J, et al. **Med Clin (Barc)** 1990 Jan 20;94(2):65–8 (37 ref.) **(Spa)**

ADVERSE EFFECTS

Examination by fluorescence and EPR spectroscopy of the state of mitochondrial and lysosomal membranes upon freeze–thawing. Belous AM, et al. **Cryobiology** 1990 Apr; 27(2):184–8

Cold–induced ultrastructural changes in bull and boar sperm plasma membranes. De Leeuw FE, et al. **Cryobiology** 1990 Apr;27(2):171–83

Fertilization in vitro of human oocytes by spermatozoa collected in different stressful situations. Pellicer A, et al. **Hum Reprod** 1989 Oct;4(7):817–20

Viability of sinusoidal lining cells in cold–preserved rat liver allografts. Holloway CM, et al. **Transplantation** 1990 Jan; 49(1):225–9

ECONOMICS

MRC's cryobiology closure evokes protests [news] Concar D. **Nature** 1990 Aug 23;346(6286):685

METHODS

Effect of different cryoprotectants and transfer temperatures on the survival rate of hemp (Cannabis sativa L.) cell suspension in deep freezing. Jekkel Z, et al. **Acta Biol Hung** 1989;40(1–2):127–36

Cryopreservation of newly formed human and mouse hybridoma cells. Settmacher U, et al. **Allerg Immunol (Leipz)** 1989;35(3):195–201

A cytogenetic investigation of the effects of cryopreservation on human sperm. Chernos JE, et al. **Am J Hum Genet** 1989 Nov;45(5):766–77

Mechanisms of perfused kidney cytoprotection by alanine and glycine. Baines AD, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):F80–7

Improved myocardial preservation during cold storage using substrate enhancement. Haan CK, et al. **Ann Thorac Surg** 1990 Jul;50(1):80–5

Cryogenic preservation of low–quality human semen. Kaneko S, et al. **Arch Androl** 1990;24(1):81–6

Human sperm cryobiological characteristics: comparative cryopreservation techniques. Zhu WJ, et al. **Arch Androl** 1990;24(1):95–6

Cryopreservation of human embryos as a useful tool for infertile couples. Katayama KP, et al. **Asia Oceania J Obstet Gynaecol** 1990 Jun;16(2):97–100

Homograft skin banking—current practices and future trends. Fielding GA, et al. **Aust N Z J Surg** 1988 Feb;58(2):153–6

Cryopreservation of marrow cells for ABMT. Is there any effect on the harvested leukaemic cells? Alessandrino EP, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 4:81–4 (24 ref.)

Influence of O.C.T. embedding compound on determinations of estrogen and progestin receptors in breast cancer. Pasic R, et al. **Clin Chem** 1989 Dec;35(12):2317–9

Cryopreservation of human platelets with propane–1,2–diol. Arnaud FG, et al. **Cryobiology** 1990 Apr;27(2):130–6

Permeation of glycerol and propane–1,2–diol into human platelets. Arnaud FG, et al. **Cryobiology** 1990 Apr; 27(2):107–18

Some effects of propane–1,2–diol on human platelets. Arnaud FG, et al. **Cryobiology** 1990 Apr;27(2):119–29

Effects of cooling rate and glycerol concentration on the structure of the frozen kidney: assessment by cryo–scanning electron microscopy. Bischof J, et al. **Cryobiology** 1990 Jun; 27(3):301–10

Hypothermic preservation of rabbit kidneys for 48 hours using low ionic strength solutions. Jacobsen IA, et al. **Cryobiology** 1990 Aug;27(4):423–9

Cryopreservation of skin using a murine model: validation of a prognostic viability assay. Kearney JN, et al. **Cryobiology** 1990 Feb;27(1):24–30

Effects of cryobiological variables on the survival of skin using a defined murine model. Kearney JN, et al. **Cryobiology** 1990 Apr;27(2):164–70

Hypothermic preservation of the rat heart. Comparison of immersion and low–flow perfusion methods: contribution of 31P–NMR spectroscopy. Larese A, et al. **Cryobiology** 1990 Aug;27(4):430–8

Propane–1,2–diol as a potential component of a vitrification solution for corneas. Rich SJ, et al. **Cryobiology** 1990 Feb; 27(1):42–54

Progressive coronary vasoconstriction during 25 hours of myocardial preservation in vitro impairs functional capacity following preservation. Susilo AW, et al. **Eur J Cardiothorac Surg** 1989;3(6):544–8

Screening of conditions for rapid freezing of human oocytes: preliminary study toward their cryopreservation. Pensis M, et al. **Fertil Steril** 1989 Nov;52(5):787–94

Computerized slow–staged freezing of semen from men with testicular tumors or Hodgkin's disease preserves sperm better than standard vapor freezing. Ragni G, et al. **Fertil Steril** 1990 Jun;53(6):1072–5

Freezing–point depression and viability of bovine sperm during freezing and storage. Rao PS, et al. **Fertil Steril** 1968 Jan–Feb;19(1):129–36

"Two–step" freezing of individual blastomeres from mouse eight–cell embryos. Landa V. **Folia Biol (Praha)** 1990; 36(1):51–6

Cryopreservation of pronucleate mouse ova: slow versus ultrarapid freezing. Van der Auwera I, et al. **Hum Reprod** 1990 Jul;5(5):619–21

Isolation of melanized cell lines with stable phenotypes from a goldfish erythrophoroma cell line and cryopreservation of these cells by the use of autologous serum. Chou SC, et al. **In Vitro Cell Dev Biol** 1989 Sep;25(9):813–20

Cryopreservation of cynomolgus monkey (Macaca fascicularis) hepatocytes for subsequent culture and protein synthesis studies. Sun EL, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):147–50

Cryopreservation of mouse embryos at –196 degrees C by vitrification. Agrawal KP, et al. **Indian J Exp Biol** 1989 Apr;27(4):383–4

Slow thaw siphon technique for cryoprecipitate production. Chudgar UH, et al. **Indian J Med Res** 1989 Aug;90:295–9

High–pressure freezing for the preservation of biological structure: theory and practice. Dahl R, et al. **J Electron Microsc Tech** 1989 Nov;13(3):165–74 (34 ref.)

Improved method for obtaining 3–microns cryosections for immunocytochemistry. Barthel LK, et al. **J Histochem Cytochem** 1990 Sep;38(9):1383–8

A novel immunohistochemical technique for demonstration of specific binding of human monoclonal antibodies to human cryostat tissue sections. Tuson JR, et al. **J Histochem Cytochem** 1990 Jul;38(7):923–6

Sperm cryopreservation: state of the art. Wolf DP, et al. **J In Vitro Fert Embryo Transf** 1989 Dec;6(6):325–7 (11 ref.)

Long–term viability of stored mycoplasmas and ureaplasmas. Furr PM, et al. **J Med Microbiol** 1990 Mar;31(3):203–6

Cooling rate and ice–crystal measurement in biological specimens plunged into liquid ethane, propane, and Freon 22. Ryan KP, et al. **J Microsc** 1990 Jun;158 (Pt 3):365–78

Preoperative cooling and storage of amputated digits. Foucher G, et al. **J Reconstr Microsurg** 1990 Jan;6(1):71

A simple method for mouse embryo cryopreservation in a low toxicity vitrification solution, without appreciable loss of viability. Kasai M, et al. **J Reprod Fertil** 1990 May; 89(1):91–7

High survival rate of unfertilized mouse oocytes after vitrification. Nakagata N. **J Reprod Fertil** 1989 Nov; 87(2):479–83

Developmental capacity of mouse oocytes cryopreserved before and after maturation in vitro. Schroeder AC, et al. **J Reprod Fertil** 1990 May;89(1):43–50

Cryopreservation of mouse spermatozoa in the presence of raffinose and glycerol. Tada N, et al. **J Reprod Fertil** 1990 Jul;89(2):511–6

The hardening effect of dimethylsulphoxide on the mouse zona pellucida requires the presence of an oocyte and is associated with a reduction in the number of cortical granules present. Vincent C, et al. **J Reprod Fertil** 1990 May;89(1):253–9

Ultrarapid freezing and thawing of hamster oocytes. Morphologic parameters, trypan blue staining and sperm penetration assay for evaluating survival. Lewin A, et al. **J Reprod Med** 1990 Feb;35(2):136–40

Multiparameter flow cytometric quantification of membrane proteins in long–term cryopreserved tissue blocks [letter] van Dam PA, et al. **Lancet** 1990 Sep 15;336(8716):689

Deformability of erythrocytes stored between –20 and –25 degrees C [letter] Wegner G, et al. **Lancet** 1990 Sep 29; 336(8718):809

Combined effect of glycerol concentration and cooling velocity on motility and acrosomal integrity of boar spermatozoa frozen in 0.5 ml straws. Fiser PS, et al. **Mol Reprod Dev** 1990 Feb;25(2):123–9

Cryopreservation of Drosophila melanogaster embryos. Steponkus PL, et al. **Nature** 1990 May 10;345(6271):170–2

Human pregnancy after transfer of intact frozen–thawed embryos. Erasmus EL, et al. **S Afr Med J** 1989 Dec 2; 76(11):613–4

Superiority of substrate enhancement over oxygen free–radical scavengers during extended periods of cold storage for cardiac transplantation. Lazar HL, et al. **Surgery** 1990 Aug;108(2):423–9; discussion 429–30

Cryopreservation of human platelets with 1.4 m glycerol at –75 degrees C in PVC blood packs. Arnaud FG, et al. **Thromb Res** 1990 Mar 15;57(6):919–24

A comparative study of two methods for the cryopreservation of Plasmodium falciparum [published erratum appears in Trans R Soc Trop Med Hyg 1989 Sep–Oct;83(5):469–70] Mathai E, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):469–70

Effects of thawing temperature on the viability of islets isolated from a cryopreserved pancreas. Izumi R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1345–7

Cryopreservation of equine mononuclear cells for immunological studies. Truax RE, et al. **Vet Immunol Immunopathol** 1990 Jun;25(2):139–53

[Comparison of methods of cryopreservation of blood platelets] Gašová Z. **Vnitr Lek** 1990 Apr;36(4):387–90 (Eng. Abstr.) (Cze)

[Is the institution of a homograft bank of stripped saphenous veins possible?] Louagie Y, et al. **Phlebologie** 1990 Jan–Mar; 43(1):95–100; discussion 100–1 (Eng. Abstr.) (Fre)

[Pregnancy after ovariectomy as a result of preservation of the embryos] Racinet C, et al. **Presse Med** 1990 Jun 30; 19(26):1228–9 (Eng. Abstr.) (Fre)

[Pulmonary and aortic autograft: method of preparation and conservation] Arciprete P, et al. **Arch Monaldi Mal Torace** 1988 Jul–Aug;43(4):339–47 (10 ref.) (Eng. Abstr.) (Ita)

[The effect of cryopreservation and transplantation factors on the morphofunctional state of the thyroid in dogs] Ismailov SI, et al. **Biull Eksp Biol Med** 1989 Dec; 108(12):727–30 (Eng. Abstr.) (Rus)

[Study of tissue coagulation factors of native and cryopreserved bone marrow] Lipkan GN, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):79–81 (Eng. Abstr.) (Rus)

[A comparative study of the cryoprotective properties of dimethylacetamide and dimethyl sulfoxide in preserving thrombocytes at moderately low temperatures] Azovskaia SA, et al. **Gematol Transfuziol** 1989 Dec;34(12):18–21 (Eng. Abstr.) (Rus)

[Preservation of the lungs] Burdine D, et al. **Grud Serdechnososudistaia Khir** 1990;(3):63–9 (55 ref.) (Rus)

[Monitoring of myocardial gases and evaluation of the viability of the preserved heart] Chilaia SM, et al. **Grud Serdechnososudistaia Khir** 1990;(5):33–7 (Eng. Abstr.) (Rus)

[Cryopreservation and allogeneic transplantation of tendon tissue] Demichev NP, et al. **Ortop Travmatol Protez** 1990 Apr;(4):22–7 (Eng. Abstr.) (Rus)

[Correction of the defects of tubular bones with demineralized allogeneic transplants preserved by various methods] Stakheev IA, et al. **Ortop Travmatol Protez** 1990 Feb;(2):50–3 (Rus)

[The cryopreservation of isolated liver cells] Kravchenko LP, et al. **Tsitologiia** 1989 Oct;31(10):1245–8 (26 ref.) (Eng. Abstr.) (Rus)

[Cryopreservation of a suspension of fetal liver cells for clinical use] Lavrik SS, et al. **Vrach Delo** 1990 Jan;(1):90–3 (Eng. Abstr.) (Rus)

STANDARDS

Analysis of convection cooling rates for fluid samples in cryostorage. Butts RK, et al. **Clin Chem** 1990 Jul; 36(7):1378–9

VETERINARY

Cryopreservation of some common nematodes of ruminants for up to 11,3 years. Van Wyk JA, et al. **Onderstepoort J Vet Res** 1990 Mar;57(1):1–6

Cryopreservation of semen from unique lines of chicken germ plasm. Tajima A, et al. **Poult Sci** 1990 Jun;69(6):999–1002

[Successful use in horses of deep–frozen semen specimens stored for 18 years] Braun J, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jun 1;103(6):211–2 (Eng. Abstr.) (Ger)

[Production of normal young following transfer of mouse embryos obtained by in vitro fertilization using cryopreserved spermatozoa] Yokoyama M, et al. **Jikken Dobutsu** 1990 Jan;39(1):125–8 (Eng. Abstr.) (Jpn)

CRYOPROTECTIVE AGENTS

Abstracts of papers presented at the twenty–sixth annual meeting of the Society of Cryobiology. June 11–16, 1989, Charleston, South Carolina. **Cryobiology** 1989 Dec; 26(6):535–600

Storage of blood for methemoglobin determination: comparison of storage with a cryoprotectant at –30 degrees C and without any additions at –80 degrees C or –196 degrees C. Sato K, et al. **Forensic Sci Int** 1990 Mar; 45(1–2):129–34

Computer–automated structure evaluation of gastric antiulcer compounds: study of cytoprotective and antisecretory imidazo[1,2–a]pyridines and –pyrazines. Klopman G, et al. **Mol Pharmacol** 1990 Jun;37(6):958–65

Prostaglandin E1 but not E2 is cytoprotective of energy metabolism and reticuloendothelial function in the ischemic canine liver. Ueda Y, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1329–30

ANALYSIS

Extraction from prawn shells of substances cryoprotective for Vibrio cholerae. Shimodori S, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2726–8

ISOLATION & PURIFICATION

[Exclusion chromatography for the separation of cryoprotective agents from freeze–preserved blood cells] Mavrina L, et al. **Folia Haematol (Leipz)** 1990;117(2):251–8 (Eng. Abstr.) (Ger)

PHARMACOLOGY

Mechanisms of perfused kidney cytoprotection by alanine and glycine. Baines AD, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):F80–7

Effects of cryoprotectants on actin filaments during the cryopreservation of one–cell rabbit embryos [published erratum appears in Cryobiology 1990 Jun;27(3):343–4] Vincent C, et al. **Cryobiology** 1990 Feb;27(1):9–23

Comparative results on survival of human and animal eggs using different cryoprotectants and freeze–thawing regimens. I. Mouse and hamster. Todorow SJ, et al. **Hum Reprod** 1989 Oct;4(7):805–11

Cryopreservation of mammalian sperm: what we ask them to survive. Hammerstedt RH, et al. **J Androl** 1990 Jan–Feb; 11(1):73–88 (85 ref.)

Cryopreservation of mouse spermatozoa in the presence of raffinose and glycerol. Tada N, et al. **J Reprod Fertil** 1990 Jul;89(2):511–6

Solvent effects on cytoskeletal organization and in-vivo survival after freezing of rabbit oocytes. Vincent C, et al. **J Reprod Fertil** 1989 Nov;87(2):809–20

Ultrarapid freezing and thawing of hamster oocytes. Morphologic parameters, trypan blue staining and sperm penetration assay for evaluating survival. Lewin A, et al. **J Reprod Med** 1990 Feb;35(2):136–40

Computer-automated structure evaluation of gastric antiulcer compounds: study of cytoprotective and antisecretory imidazo[1,2-a]pyridines and -pyrazines. Klopman G, et al. **Mol Pharmacol** 1990 Jun;37(6):958–65

Dimethylsulphoxide affects the organisation of microfilaments in the mouse oocyte. Vincent C, et al. **Mol Reprod Dev** 1990 Jul;26(3):227–35

Cytoprotective effect of iloprost on isolated cortical brain tissue grafts in rats. Palaoglu S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Mar; 39(3):203–6

Cryopreservation of human platelets with 1.4 m glycerol at -75 degrees C in PVC blood packs. Arnaud FG, et al. **Thromb Res** 1990 Mar 15;57(6):919–24

[A comparative study of the cryoprotective properties of dimethylacetamide and dimethyl sulfoxide in preserving thrombocytes at moderately low temperatures] Azovskaia SA, et al. **Gematol Transfuziol** 1989 Dec;34(12):18–21 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Comparative results on survival of human and animal eggs using different cryoprotectants and freeze-thawing regimens. II. Human. Todorow SJ, et al. **Hum Reprod** 1989 Oct;4(7):812–6

TOXICITY

Cryoprotectant toxicity and cryoprotectant toxicity reduction: in search of molecular mechanisms. Fahy GM, et al. **Cryobiology** 1990 Jun;27(3):247–68 (78 ref.)

CRYOSURGERY

Cryotherapy during pregnancy. Matányi S. **Acta Chir Hung** 1989;30(4):325–31

The use of nonspecific esterase in assessing the effectivity of cryotherapy on the uterine cervix. Matányi S, et al. **Acta Chir Hung** 1989;30(3):205–9

Ultrastructural alterations in the ectocervical epithelium after cryotherapy. Matányi S, et al. **Acta Chir Hung** 1989; 30(3):211–7

Cryosurgery of eyelid basal cell carcinomas. Gunnarson G, et al. **Acta Ophthalmol (Copenh)** 1990 Jun;68(3):241–5

Liquid nitrogen instillation can cause venous gas embolism. Dwyer DM, et al. **Anesthesiology** 1990 Jul;73(1):179–81

Re: Apfelberg et al: Comparison of argon and CO2 laser treatment of decorative tattoos [letter] Dvir E. **Ann Plast Surg** 1986 Feb;16(2):172

Multicenter trial of cryotherapy for retinopathy of prematurity. Three-month outcome. Cryotherapy for Retinopathy of Prematurity Cooperative Group. **Arch Ophthalmol** 1990 Feb;108(2):195–204

Freezing and acanthamoeba [letter; comment] Meisler DM, et al. **Arch Ophthalmol** 1989 Oct;107(10):1420 Comment on: Arch Ophthalmol 1989 Mar;107(3):439–40.

Cryotherapy for stage 3+ retinopathy of prematurity [letter; comment] Topilow HW, et al. **Arch Ophthalmol** 1990 Jan; 108(1):15–6 Comment on: Arch Ophthalmol 1989 Jul;107(7):1017–8.

Photographic grading in the retinopathy of prematurity cryotherapy trial. Watzke RC, et al. **Arch Ophthalmol** 1990 Jul;108(7):950–5

Clearance of experimental vitreous hemorrhage after panretinal cryotherapy is related to macrophage influx. Williams DF, et al. **Arch Ophthalmol** 1990 Apr;108(4):595–7

Transmission of virus particles by cryotherapy and multi-use caustic pencils: a problem to dermatologists? Jones SK, et al. **Br J Dermatol** 1989 Oct;121(4):481–6

Cyclocryotherapy: a review of cases over a 10-year period. Benson MT, et al. **Br J Ophthalmol** 1990 Feb;74(2):103–5

Early diagnosis of the retinopathy of incontinentia pigmenti: successful treatment by cryotherapy. Rahi J, et al. **Br J Ophthalmol** 1990 Jun;74(6):377–9

Cryotherapy for liver metastases: a new approach [see comments] Charnley RM, et al. **Br J Surg** 1989 Oct; 76(10):1040–1 Comment in: Br J Surg 1990 Mar;77(3):354.

Cryotherapy for liver metastases [letter; comment] Masters A. **Br J Surg** 1990 Mar;77(3):354 Comment on: Br J Surg 1989 Oct;76(10):1040–1.

Cryosurgery, electrocautery and the laser [letter; comment] **Chest** 1989 Oct;96(4):959–60 Comment on: Chest 1988 Jul;94(1):15–21.

Advances in cryosurgery. **Clin Dermatol** 1990 Jan–Mar; 8(1):1–116

Cryosurgery in the treatment of cutaneous malignant melanoma. Breitbart EW. **Clin Dermatol** 1990 Jan–Mar; 8(1):96–100

Electron microscopic investigations of the cryolesion. Breitbart EW, et al. **Clin Dermatol** 1990 Jan–Mar;8(1):30–8

Treatment of cryosurgery in the premalignant and benign lesions of the skin. Dachów-Siwiéc E. **Clin Dermatol** 1990 Jan–Mar;8(1):69–79 (38 ref.)

Cryosurgery in the treatment of skin cancers: indications and management. Dachów-Siwiéc E. **Clin Dermatol** 1990 Jan–Mar;8(1):80–5 (19 ref.)

Cryosurgery of advanced tumors. Gage AA. **Clin Dermatol** 1990 Jan–Mar;8(1):86–95 (48 ref.)

Morphologic and cell kinetic investigations of the cryolesion. Helpap B. **Clin Dermatol** 1990 Jan–Mar;8(1):5–29

Immunologic aspects of cryosurgery: potential modulation of immune recognition and effector cell maturation. Johnson JP. **Clin Dermatol** 1990 Jan–Mar;8(1):39–47 (31 ref.)

Multiple clear cell acanthomas—treatment by cryotherapy. Williams RE, et al. **Clin Exp Dermatol** 1989 Jul;14(4):300–1

Cryotherapy in pulmonology today and tomorrow. Homasson JP. **Eur Respir J** 1989 Oct;2(9):799–801 (32 ref.)

Preliminary evaluation of cold coagulation as a treatment for cervical intraepithelial neoplasia in a department of genitourinary medicine [letter] Coker DM, et al. **Genitourin Med** 1990 Feb;66(1):44

Treatment of external genital warts: a randomised clinical trial comparing podophyllin, cryotherapy, and electrodesiccation. Stone KM, et al. **Genitourin Med** 1990 Feb;66(1):16–9

20-year experience of follow-up of the abnormal smear with colposcopy and histology and treatment by conization or cryosurgery. Hellberg D, et al. **Gynecol Oncol** 1990 Aug; 38(2):166–9

Cryopexy enhances experimental autoimmune uveoretinitis (EAU) in rats. de Bara R, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2165–73

New approaches to treatment of incessant ventricular tachycardia in the very young. Zeigler VL, et al. **J Am Coll Cardiol** 1990 Sep;16(3):681–5

Treatment with Refrigerant 12 [letter; comment] Gerwels JW. **J Dermatol Surg Oncol** 1989 Oct;15(10):1127 Comment on: J Dermatol Surg Oncol 1989 Jun;15(6):621–3.

Treatment of warts with liquid nitrogen [letter; comment] **J R Coll Gen Pract** 1989 Apr;39(321):173–4 Comment on: J R Coll Gen Pract 1989 Jan;39(318):21–3.

Cryosurgery versus dilation and massage for the treatment of recurrent urethral syndrome. Sand PK, et al. **J Reprod Med** 1989 Aug;34(8):499–504

Perinodal cryosurgery for atrioventricular node reentry tachycardia in 23 patients. Cox JL, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):440–9; discussion 449–50

Transannular cryoablation of ventricular tachycardia. Surgical technique and results. Lawrie GM, et al. **J Thorac Cardiovasc Surg** 1989 Dec;98(6):1030–5; discussion 1035–6

Cryotherapy in infants with retinopathy of prematurity [letter; comment] Hindle NW. **JAMA** 1990 Apr 18; 263(15):2052 Comment on: JAMA 1989 Mar 24–31;261(12):1751–6.

The effect of cryotherapy on proliferative vitreoretinopathy (PVR). Chung H, et al. **Korean J Ophthalmol** 1989 Jun; 3(1):1–5

Intraocular pressure after peripheral retinal cryopexy in normotensive human eyes. Schubert HD. **Ophthalmic Surg** 1989 Nov;20(11):811–2

Cryotherapy for stage 3+ retinopathy of prematurity: visual and anatomic results. Topilow HW, et al. **Ophthalmic Surg** 1989 Dec;20(12):864–71

Prevention of posterior capsular opacification by cryolysis and the use of heparinized irrigating solution during extracapsular lens extraction in rabbits. Zaturinsky B, et al. **Ophthalmic Surg** 1990 Jun;21(6):431–4

Role of cryotherapy in treating sebaceous carcinoma of the eyelid [letter; comment] Kass LG. **Ophthalmology** 1990 Jan; 97(1):2–4 Comment on: Ophthalmology 1989 Jul;96(7):1021–6.

A comparison of carbon dioxide laser, liquid nitrogen cryosurgery, and scalpel wounds in healing. Pogrel MA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Mar; 69(3):269–73

Cryoablation of medically refractory nodoventricular tachycardia. Silka MJ, et al. **PACE** 1990 Jul;13(7):908–15

[Cryosurgery in rectal carcinoma—report of 41 cases] Wang ZS. **Chung Hua Chung Liu Tsa Chih** 1989 May;11(3):226–7 (Eng. Abstr.) **(Chi)**

[Clinical observation of cryotherapy in 242 cases of ocular and facial neoplasms] Song JX. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):340–2 (Eng. Abstr.) **(Chi)**

[Cryoretinopexy in the treatment of proliferative diabetic retinopathies with hemophthalmos] Haicl P. **Cesk Oftalmol** 1989 Jul;45(4):279–87 (Eng. Abstr.) **(Cze)**

[Cryocoagulation in the treatment of retinopathy of prematurity] Lomíčková H, et al. **Cesk Oftalmol** 1990 Feb; 46(1):1–8 (Eng. Abstr.) **(Cze)**

[Cryotherapy of benign and malignant processes] Madron J, et al. **Rozhl Chir** 1990 Mar;69(3):170–4 (Eng. Abstr.) **(Cze)**

[Reduction of operative risk by HFJV in endobronchial cryotherapy] Dewachter P, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R267 **(Fre)**

[Current evaluation of the treatment of retinal detachment by cryocoagulation and gas tamponade without scleral buckling] Constantinides G, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1483–5 (Eng. Abstr.) **(Fre)**

[Cryosurgery in the treatment of basal cell epithelioma of the eyelids] Caujolle JP, et al. **J Fr Ophtalmol** 1989; 12(4):279–86 (17 ref.) (Eng. Abstr.) **(Fre)**

[Preventive cryotherapy of the retina and cataract surgery] Herzeel R, et al. **J Fr Ophtalmol** 1989;12(6-7):433–7 (Eng. Abstr.) **(Fre)**

[My experience with cryosurgery] Besset JF. **Phlebologie** 1989 Nov–Dec;42(4):579–83 (Eng. Abstr.) **(Fre)**

[My experience with cryosurgery of varicose veins] Millieret R. **Phlebologie** 1989 Nov–Dec;42(4):573–7 **(Fre)**

[Cryogenic contact therapy of cutaneous lesions of lupus erythematosus] Wollina U, et al. **Dermatol Monatsschr** 1990;176(2–3):105–9 (Eng. Abstr.) **(Ger)**

[Long-term results of the treatment of Coats disease] Pauleikhoff D, et al. **Fortschr Ophthalmol** 1989;86(5):451–5 (Eng. Abstr.) **(Ger)**

[Cutaneous leishmaniasis: treatment with cryotherapy and intramuscular injections of meglumine antimonate (glucantime)] Rzany B, et al. **Hautarzt** 1990 Feb; 41(2):98–101 (Eng. Abstr.) **(Ger)**

[Immunomodulation by cryosurgery in malignant melanoma] Weyer U, et al. **Onkologie** 1989 Dec;12(6):291–6 (Eng. Abstr.) **(Ger)**

[Cryosurgery of basalioma. Results of a retrospective study. Histologic study of the cryogenic lesion] Luther H, et al. **Z Hautkr** 1989 Sep 15;64(9):748–50, 753–5 (Eng. Abstr.) **(Ger)**

[Surgical treatment of Wolff-Parkinson-White syndrome—experiences with 87 surgically treated patients] Frank G, et al. **Z Kardiol** 1990 Jan;79(1):37–45 (Eng. Abstr.) **(Ger)**

[Current experience with the use of cryotherapy in dentistry] Orosz M, et al. **Fogorv Sz** 1988 Apr;81(4):97–101 (Eng. Abstr.) **(Hun)**

[Changes in immunoparameters following cryosurgery in prostate cancer] Fukagai T, et al. **Hinyokika Kiyo** 1990 Mar;36(3):307–17 (Eng. Abstr.) **(Jpn)**

[Cryosurgical treatment of atrial tachyarrhythmia with atrial flutter] Watanabe G, et al. **Kyobu Geka** 1990 Mar; 43(3):183–7 (Eng. Abstr.) **(Jpn)**

[Sequential MRI and CT monitoring in cryosurgery—an experimental study in polyvinyl alcohol gel phantom] Isoda H. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Sep 25; 49(9):1096–101 (Eng. Abstr.) **(Jpn)**

[A case report of epicardial cryoablation in a five-month-old infant with WPW syndrome] Magara T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar;38(3):477–81 (Eng. Abstr.) **(Jpn)**

[A comparison between CO2 laser conization and cold knife conization in clinical diagnosis of cervical intraepithelial neoplasia] Iwanari O, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov; 41(11):1755–60 (Eng. Abstr.) **(Jpn)**

[Effect of cryotherapy on pathological changes of the uterine cervix] Wojtyś A, et al. **Ginekol Pol** 1989 Mar;60(3):156–9 (Eng. Abstr.) **(Pol)**

[Cryotherapy of vitreous hemorrhage in diabetic retinopathy] Lenkiewicz E, et al. **Klin Oczna** 1989 Jul–Sep;91(7–9):195–6 (Eng. Abstr.) **(Pol)**

[Destructive and reparative processes after UHF and cryo-effect on bone regeneration in dogs] Plotnikov NA, et al. **Biull Eksp Biol Med** 1990 May;109(5):478–81 (Eng. Abstr.) **(Rus)**

[The effect of the combined use of cryosurgery and hyperthermia on an experimental tumor process] Kuz'menko AP, et al. **Eksp Onkol** 1990;12(2):60–1 (Eng. Abstr.) **(Rus)**

[Early and long-term results of the combined treatment of patients with gastric cancer submitted to cryosurgery] Kshivets OM, et al. **Klin Khir** 1990;(5):19–20 (Eng. Abstr.) **(Rus)**

[Cryotherapy of breast fistulas] Shamanov AKh, et al. **Klin Khir** 1989;(12):54 **(Rus)**

[The treatment of chalazion by cryogenic action] Fal'bush OA. **Oftalmol Zh** 1989;(6):360–1 (Eng. Abstr.) **(Rus)**

[The reparative regeneration of the endothelium of the aortic bifurcation in rats after cryodestruction] Rekhter MD, et al. **Tsitol Genet** 1990 Mar–Apr;24(2):10–2 (Eng. Abstr.) **(Rus)**

[Experience in treating senile and seborrheic keratomata by cryogenic action with liquid nitrogen] Orlova LA. **Vestn Dermatol Venerol** 1989;(7):41–3 (Eng. Abstr.) **(Rus)**

[Treatment of experimental pancreonecrosis by occlusion of the pancreatic ducts and cryodestruction of necrotic foci] Buianov VM, et al. **Vestn Khir** 1989 Jun;142(6):28–31 (Eng. Abstr.) **(Rus)**

[Trans-scleral cryopexy in hemophthalmos of diabetic etiology] Katanel'son LA, et al. **Vestn Oftalmol** 1990 May–Jun;106(3):19–21 (Eng. Abstr.) **(Rus)**

[Treatment of chronic tonsillitis by lacunar cryosurgery] Psakhis BI, et al. **Vestn Otorinolaringol** 1990 May–Jun; (3):79 **(Rus)**

[Possibilities of the cryosurgical method in the treatment of skin carcinoma] Gyrdev P, et al. **Vopr Onkol** 1989; 35(12):1484–5 **(Rus)**

[A comparative study of the efficacy of cryosurgical and operative treatments in transplanted tumors] Mosienko VS, et al. **Vopr Onkol** 1989;35(11):1336–40 (Eng. Abstr.) **(Rus)**

[Cryotherapy with liquid nitrogen in dermatology] Zečević R, et al. **Vojnosanit Pregl** 1990 Mar–Apr;47(2):107–9 **(Scr)**

ADVERSE EFFECTS

Complications of liquid nitrogen cryosurgery for verrucae over bony prominences. Yaffe B, et al. **Ann Plast Surg** 1986 Feb;16(2):146–9

Nitrogen embolus as a complication of hepatic cryosurgery. Schlinkert RT, et al. **Arch Surg** 1990 Sep;125(9):1214

Cryosurgery: complications and contraindications. Dawber RP. **Clin Dermatol** 1990 Jan–Mar;8(1):108–14 (17 ref.)

Hair follicle destruction and regeneration in guinea pig skin after cutaneous freeze injury. Burge SM, et al. **Cryobiology** 1990 Apr;27(2):153–63

Refractive errors after cryotherapy in retinopathy of prematurity. Seiberth V, et al. **Ophthalmologica** 1990; 201(1):5–8

Systemic complications associated with retinal cryoablation for retinopathy of prematurity. Brown GC, et al. **Ophthalmology** 1990 Jul;97(7):855–8

Immediate complications of cryotherapy in children [letter] Trese MT, et al. **Retina** 1990;10(2):159

[Recommendations apropos of contraindications and precautions in the use of bronchial cryotherapy with a flexible catheter [letter]] Blanc-Jouvan F, et al. **Rev Mal Respir** 1989;6(5):479 (Fre)

[Risk factors for complications in cataract surgery using cryoextraction methods] Zygulska-Machowa H, et al. **Klin Oczna** 1988;90 Suppl:497–8 (Eng. Abstr.) (Pol)

HISTORY

The historic development of cryosurgery. Bracco D. **Clin Dermatol** 1990 Jan–Mar;8(1):1–4

INSTRUMENTATION

The Joule Thomson cryoprobe. Amoils SP. **Arch Ophthalmol** 1967 Aug;78(2):201–7

Cryosurgical instrumentation and depth dose monitoring. Torre D. **Clin Dermatol** 1990 Jan–Mar;8(1):48–60 (7 ref.)

[Clinical results following cyclo-cryocoagulation with a nitrogen cooled probe] Böhnke M, et al. **Fortschr Ophthalmol** 1990;87(2):134–7 (Eng. Abstr.) (Ger)

[Technic and long-term results of cryogenic epilation in trichiasis and distichiasis] Matthäus W, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):59–61 (Eng. Abstr.) (Ger)

[A new device technic for cryotherapy of glaucoma] Matthes R, et al. **Klin Monatsbl Augenheilkd** 1989 Aug;195(2):100–2 (Eng. Abstr.) (Ger)

[A facility for manufacturing a shut-off valve for the KAO-2 cryosurgical apparatus] Smirnov NM. **Vestn Otorinolaringol** 1990 Mar–Apr;(2):74–5 (Rus)

METHODS

Change of tissue temperature of the uterine cervix during double freezing. Matányi S. **Acta Chir Hung** 1989; 30(4):319–24

Cryotherapy and CO2-laser vaporization in the treatment of cervical and vaginal human papillomavirus (HPV) infections. Yliskoski M, et al. **Acta Obstet Gynecol Scand** 1989;68(7):619–25

Panretinal xenonphotocoagulation combined with cyclocryotherapy in the treatment of severe glaucoma. Nissen OI, et al. **Acta Ophthalmol (Copenh)** 1989 Dec; 67(6):652–6

The management of umbilical granulomas with cryocautery [letter] Sheth SS, et al. **Am J Dis Child** 1990 Feb; 144(2):146–7

Ultrasound in cryosurgery. Kimmig W, et al. **Clin Dermatol** 1990 Jan–Mar;8(1):65–8

Cryosurgery—the principles and simple practice. Colver GB, et al. **Clin Exp Dermatol** 1989 Jan;14(1):1–6 (38 ref.)

The process of freezing and the mechanism of damage during hepatic cryosurgery. Rubinsky B, et al. **Cryobiology** 1990 Feb;27(1):85–97

Cutaneous leishmaniasis. Treatment with combined cryotherapy and intralesional stibogluconate injection. el Darouti MA, et al. **Int J Dermatol** 1990 Jan–Feb;29(1):56–9

Ligation and cryosurgery of all hemorrhoids. An office procedure. Rudd WW. **Int Surg** 1989 Jul–Sep;74(3):148–51

Cryosurgical treatment of hemorrhoids in Japan. Tanaka S. **Int Surg** 1989 Jul–Sep;74(3):146–7

Cryohydrodissection in cervicofacial rhytidectomy [letter] Asken S. **J Dermatol Surg Oncol** 1990 Apr;16(4):393

Cryosurgical denervation of the heart: acute and chronic effects. Douglas JM Jr, et al. **J Thorac Cardiovasc Surg** 1990 Aug;100(2):198–209

Analysis of cryolesions in the uterine cervix: application techniques, extension, and failures. Boonstra H, et al. **Obstet Gynecol** 1990 Feb;75(2):232–9

Bronchoscopic cryotherapy for advanced bronchial carcinoma. Walsh DA, et al. **Thorax** 1990 Jul;45(7):509–13

[Cyclocryotherapy in the treatment of glaucoma] Li JZ. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):98–101 (Eng. Abstr.) (Chi)

[Cryosurgical treatment of basal cell carcinoma of the eyelids] Faber WR, et al. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1002–5 (Eng. Abstr.) (Dut)

[Retinopathy of prematurity: long-term results following trans-conjunctival cryocoagulation] Legler U, et al. **Fortschr Ophthalmol** 1989;86(6):623–5 (Eng. Abstr.) (Ger)

[Sequential MRI and CT monitoring in cryosurgery—an experimental study in rats] Isoda H. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Dec 25; 49(12):1499–508 (Eng. Abstr.) (Jpn)

[Effects of low-temperature treatment of pathologic changes of the cervix uteri] Wojtyś A, et al. **Ginekol Pol** 1989 May; 60(5):276–9 (Eng. Abstr.) (Pol)

[Our observations concerning the use of low temperature in the treatment of glaucoma] Gerkowicz K, et al. **Klin Oczna** 1989 Jun;91(6):169–70 (Eng. Abstr.) (Pol)

[Evaluation of the cryosurgical treatment of retinal detachment] Lenkiewicz E, et al. **Klin Oczna** 1989 Oct–Dec;91(10–12):240–1 (Eng. Abstr.) (Pol)

[Comparative results of the past and present surgical treatment of retinal detachment] Stankiewicz A, et al. **Klin Oczna** 1989 Oct–Dec;91(10–12):223–4 (Eng. Abstr.) (Pol)

NURSING

[Cryosurgery with liquid nitrogen to treat spinal tumor] Jiang S, et al. **Chung Hua Hu Li Tsa Chih** 1990 Jun;25(6):264–5 (Chi)

STATISTICS & NUMERICAL DATA

Statistical analysis in cryosurgery of skin cancer. Graham GF, et al. **Clin Dermatol** 1990 Jan–Mar;8(1):101–7

TRENDS

Prospects for cryosurgery. Breitbart EW, et al. **Clin Dermatol** 1990 Jan–Mar;8(1):115–6

CRYOTHERAPEUTIC AGENTS see ANTI-INFLAMMATORY AGENTS, GOLD

CRYOTHERAPY see CRYOSURGERY

CRYPTOCOCCOSIS

Cryptococcal keratitis after keratoplasty. Perry HD, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):320–1

Cryptococcal cellulitis in congenital lymphedema. Krywonis N, et al. **Int J Dermatol** 1990 Jan–Feb;29(1):41–4

Disseminated cryptococcal infection in a patient with hyperimmunoglobulinemia E syndrome. Stone BD, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):92–5

Intraventricular cryptococcal granulomas—case report. Aoki N. **Neurol Med Chir (Tokyo)** 1989 Mar;29(3):251–4 (17 ref.)

Cryptococcal skeletal infections: case report and review. Behrman RE, et al. **Rev Infect Dis** 1990 Mar–Apr; 12(2):181–90 (67 ref.)

[A case of sepsis and meningitis due to capsule-deficient Cryptococcus neoformans with SIADH] Mukae H, et al. **Kansenshogaku Zasshi** 1989 Oct;63(10):1206–11 (Eng. Abstr.) (Jpn)

[A case of primary pulmonary cryptococcosis] Hatakeyama J, et al. **Kyobu Geka** 1989 Sep;42(10):853–6 (Eng. Abstr.) (Jpn)

[A case of systemic lupus erythematosus associated with cryptococcal meningitis which was successfully cured by the administration of massive dose of amphotericin B] Matsuda O, et al. **Nippon Jinzo Gakkai Shi** 1990 Apr; 32(4):441–9 (Eng. Abstr.) (Jpn)

[A case of primary pulmonary cryptococcosis showing spontaneous recovery] Homma S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Jul;27(7):825–8 (Eng. Abstr.) (Jpn)

CEREBROSPINAL FLUID

Cryptococcal meningitis. False-negative antigen test results and cultures in nonimmunosuppressed patients. Berlin L, et al. **Arch Neurol** 1989 Dec;46(12):1312–6 (41 ref.)

Cryptococcal meningitis with normal cerebrospinal fluid [letter] Shaunak S, et al. **J Infect Dis** 1989 Nov;160(5):912

[CSF examination in cryptococcus meningitis] Chen Y. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Oct; 22(5):294–6, 319 (Eng. Abstr.) (Chi)

COMPLICATIONS

Cryptococcosis of CNS in AIDS patients. Quirino T, et al. **Acta Neurol (Napoli)** 1990 Feb;12(1):88–90

Formation of palisading granulomas in a patient with chronic cutaneous cryptococcosis. Leidel GD, et al. **Am J Dermatopathol** 1989 Dec;11(6):560–2

Rostral basilar reversible ischemic neurologic deficit in an HIV-infected patient with cryptococcal meningitis [letter] Rafal RD, et al. **Am J Med** 1990 Aug;89(2):248–9

Simultaneous occurrence of Kaposi's sarcoma and Cryptococcus within a cutaneous lesion in a patient with acquired immunodeficiency syndrome [letter] Sofman MS, et al. **Arch Dermatol** 1990 May;126(5):683–4

Reversible hearing loss in a patient with cryptococcosis. Mayer JM, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug;116(8):962–4

Herpetiform and mollusca contagiosa-like cutaneous cryptococcosis in a patient with AIDS. Azon-Masoliver A, et al. **Br J Dermatol** 1989 Nov;121(5):665–7

Cerebral infarction in cryptococcal meningitis. Yu YL, et al. **Clin Exp Neurol** 1989;26:193–7

Cryptococcus neoformans pulmonary infection in HIV-1-infected patients. Clark RA, et al. **J Acquir Immune Defic Syndr** 1990;3(5):480–4

Gastrointestinal, hepatic, and pancreatic involvement with Cryptococcus neoformans in AIDS. Bonacini M, et al. **J Clin Gastroenterol** 1990 Jun;12(3):295–7

Aspergillus findings in AIDS patients suffering from cryptococcosis. Staib F, et al. **Mycoses** 1989 Oct; 32(10):516–23

Pulmonary Cryptococcus neoformans and disseminated Nocardia brasiliensis in an immunocompromised host. Case report. Christoph I. **N C Med J** 1990 May;51(5):219–20

Cryptococcal infections in patients with AIDS [letter; comment] Good CB, et al. **N Engl J Med** 1990 Mar 8; 322(10):701–2 Comment on: N Engl J Med 1989 Sep 21;321(12):794–9.

Cryptococcal meningo-encephalitis after prolonged corticosteroid therapy. Koeleman JG, et al. **Neth J Med** 1990 Jun;36(5–6):242–5

AIDS-associated Cryptococcosis causing adult respiratory distress syndrome. Similowski T, et al. **Respir Med** 1989 Nov;83(6):513–5

Cryptococcal choroiditis. Carney MD, et al. **Retina** 1990; 10(1):27–32

Disseminated histoplasmosis in patients with AIDS. Nightingale SD, et al. **South Med J** 1990 Jun;83(6):624–30

Cryptococcal pyarthrosis complicating gouty arthritis. Sinnott JT 4th, et al. **South Med J** 1989 Dec;82(12):1555–6

Ventriculoperitoneal shunt in cryptococcal meningitis with hydrocephalus. Tang LM. **Surg Neurol** 1990 May; 33(5):314–9

Biliary obstruction and cholestasis in AIDS: case report. Markowitz SM, et al. **Va Med** 1990 Mar;117(3):114–6

[A case of hemiballismus during cryptococcal meningitis] Namer IJ, et al. **Rev Neurol (Paris)** 1990;146(2):153–4 (Eng. Abstr.) (Fre)

[An autopsied case of disseminated cryptococcosis with marked lymphadenopathy] Sasayama K, et al. **Kansenshogaku Zasshi** 1989 Sep;63(9):1033–7 (Eng. Abstr.) (Jpn)

[Edematous papule-type lesion as a skin manifestation of systemic cryptococcosis-AIDS (letter)] Martínez Vázquez C, et al. **Rev Clin Esp** 1989 Oct;185(6):333–4 (Spa)

[Endocarditis caused by Cryptococcus on a native valve, in a patient with AIDS (letter)] Velasco L, et al. **Rev Clin Esp** 1990 Feb;186(2):99–100 (Spa)

DIAGNOSIS

Disseminated cryptococcosis diagnosed on peripheral blood smear in a patient with acquired immunodeficiency syndrome. Yao JD, et al. **Am J Med** 1990 Jul;89(1):100–2

CNS cryptococcosis: unusual aspects. Cochius JI, et al. **Clin Exp Neurol** 1989;26:183–91

Evaluation of latex cryptococcal agglutination test in cryptococcal meningitis. Niemhom S, et al. **J Med Assoc Thai** 1990 Jan;73(1):12–5

Spinal arachnoiditis with Cryptococcus neoformans in a nonimmunocompromised child. Woodall WC 3d, et al. **Pediatr Neurol** 1990 May–Jun;6(3):206–8

[Serodiagnosis of cryptococcosis] Watanabe K. **Nippon Rinsho** 1990 Feb;48 Suppl:388–90 (Jpn)

DRUG THERAPY

Fluconazole compared with amphotericin B plus flucytosine for cryptococcal meningitis in AIDS. A randomized trial. Larsen RA, et al. **Ann Intern Med** 1990 Aug 1;113(3):183–7

Treatment of experimental cryptococcal meningitis and disseminated candidiasis with SCH39304. Perfect JR, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1735–40

Efficacy of SCH39304 in murine cryptococcosis. Restrepo BI, et al. **Antimicrob Agents Chemother** 1989 Aug; 33(8):1242–6

Itraconazole therapy for cryptococcal meningitis and cryptococcosis. Denning DW, et al. **Arch Intern Med** 1989 Oct;149(10):2301–8

Efficacy of fluconazole in cryptococcal meningitis. Jones PD, et al. **Diagn Microbiol Infect Dis** 1989 Jul–Aug;12(4 Suppl):235S–238S

Granulocytopenia and thrombocytopenia associated with combination therapy of amphotericin B and low-dose flucytosine in a patient with cryptococcal meningitis. Shindo K, et al. **DICP** 1989 Sep;23(9):672–4

Cryptococcal meningitis: unusual manifestation in a young adult and management. Rajendran C, et al. **J Commun Dis** 1989 Sep;21(3):248–53

Artifactual elevation of the serum creatinine in patients receiving flucytosine for cryptococcal meningitis [letter] Kennedy CA, et al. **J Infect Dis** 1989 Dec;160(6):1090–1

Garlic (Allium sativum) in the treatment of experimental cryptococcosis. Louria DB, et al. **J Med Vet Mycol** 1989; 27(4):253–6

Fluconazole. **Med Lett Drugs Ther** 1990 May 18;32(818):50–2

Comparative study of four antifungal drugs in an experimental model of murine cryptococcosis. Bava AJ, et al. **Mycopathologia** 1989 Nov;108(2):81–8

Severe systemic cryptococcal disease in a child: review of prognostic indicators predicting treatment failure and an approach to maintenance therapy with oral fluconazole. Moncino MD, et al. **Pediatr Infect Dis J** 1990 May; 9(5):363–8

Fluconazole therapy for experimental cryptococcosis and candidiasis in the rabbit. Perfect JR. **Rev Infect Dis** 1990 Mar–Apr;12 Suppl 3:S299–302 (30 ref.)

Overview: treatment of cryptococcal meningitis. Sugar AM, et al. **Rev Infect Dis** 1990 Mar–Apr;12 Suppl 3:S338–48 (75 ref.)

[Value of fluconazole in the treatment of systemic yeast infection] Bernard E, et al. **Pathol Biol (Paris)** 1989 Jun; 37(5 Pt 2):690–3 (Eng. Abstr.) (Fre)

[A case of cryptococcal meningitis successfully treated with miconazole and CSF drainage] Fukui K, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):649–53 (Eng. Abstr.) (Jpn)

[Primary pulmonary cryptococcosis treated with transbronchial injection of amphotericin B] Kaneko T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Dec; 27(12):1534–9 (Eng. Abstr.) (Jpn)

[Azole derivatives, a new way of treating cryptococcosis] Bengtsson E. **Lakartidningen** 1990 Apr 18;87(16):1351 (Swe)

EPIDEMIOLOGY

Current status of cryptococcosis in Canada. Sekhon AS, et al. **Mycoses** 1990 Feb;33(2):73–80

Isolation of human fungi from soil and identification of two endemic areas of Cryptococcus neoformans and Coccidioides immitis. Rubinstein H, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jan–Feb;31(1):1–6

ETIOLOGY

Oral cryptococcosis in AIDS patients [letter; comment] Lynch DP. **J Oral Maxillofac Surg** 1990 Mar;48(3):329 Comment on: J Oral Maxillofac Surg 1989 Aug;47(8):849–52.

Pleural cryptococcosis. Conces DJ Jr, et al. **J Thorac Imaging** 1990 Apr;5(2):84–6

Central nervous system in AIDS—an update. Dąmbska M, et al. **Neuropatol Pol** 1989;27(3):297–310

Cryptococcus laurentii infection complicating peritoneal dialysis. Sinnott JT 4th, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):803–5

[Cryptococcus neoformans meningitis and cirrhosis. Value of fluconazole] Levesque H, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):942–3 (Eng. Abstr.) (Fre)

[Conference at the Salpêtrière. October 1987. Chronic meningitis in a young alcoholic woman] Billé J, et al. **Rev Neurol (Paris)** 1989;145(6–7):485–91 (Fre)

[A case of adult T-cell leukemia with pulmonary cryptococcosis, cryptococcal meningitis and Pneumocystis carinii pneumonia] Shigeno H, et al. **Kansenshogaku Zasshi** 1989 Sep;63(9):1047–52 (Eng. Abstr.) (Jpn)

[Cryptococcosis in patients with transplanted kidney treated with steroids and azathioprine] Juskowa J, et al. **Pol Arch Med Wewn** 1988 Aug–Sep;80(2–3):113–23 (Eng. Abstr.) (Pol)

[Cryptococcosis in renal transplantation. A report of 4 cases] Chea R, et al. **Rev Med Chil** 1988 Oct;116(10):1061–5 (Eng. Abstr.) (Spa)

IMMUNOLOGY

Role of IgG and complement component C5 in the initial course of experimental cryptococcosis. Dromer F, et al. **Clin Exp Immunol** 1989 Dec;78(3):412–7

Opsonic activity of cerebrospinal fluid in experimental cryptococcal meningitis. Hobbs MM, et al. **Infect Immun** 1990 Jul;58(7):2115–9

Pathogenesis of Cryptococcus neoformans in congenitally immunodeficient beige athymic mice. Salkowski CA, et al. **Infect Immun** 1990 Oct;58(10):3300–6

Depletion of CD4+ (L3T4+) lymphocytes in vivo impairs murine host defense to Cryptococcus neoformans. Mody CH, et al. **J Immunol** 1990 Feb 15;144(4):1472–7

Immunosuppression in experimental cryptococcosis in rats: modification of macrophage functions by T suppressor cells. Macrophages functions in cryptococcosis. Rubinstein HR, et al. **Mycopathologia** 1989 Oct;108(1):11–9

Immunosuppression in experimental cryptococcosis in rats. Induction of thymic suppressor cells. Sotomayor CE, et al. **Mycopathologia** 1989 Oct;108(1):5–10

METABOLISM

Production of the hexitol D-mannitol by Cryptococcus neoformans in vitro and in rabbits with experimental meningitis. Wong B, et al. **Infect Immun** 1990 Jun; 58(6):1664–70

MICROBIOLOGY

Cumulative positivity rates of multiple blood cultures for Mycobacterium avium-intracellulare and Cryptococcus neoformans in patients with the acquired immunodeficiency syndrome. Yagupsky P, et al. **Arch Pathol Lab Med** 1990 Sep;114(9):923–5

Isolation of Cryptococcus neoformans gattii from a patient with AIDS in southern California [letter] Clancy MN, et al. **J Infect Dis** 1990 Apr;161(4):809

Twenty-five years with Cryptococcus neoformans. Bulmer GS. **Mycopathologia** 1990 Feb;109(2):111–22 (23 ref.)

Virulence and antifungal susceptibility of environmental and clinical isolates of Cryptococcus neoformans from Puerto Rico. Fromtling RA, et al. **Mycopathologia** 1989 Jun; 106(3):163–6

Isolation of saprophytic Cryptococcus neoformans from Puerto Rico: distribution and variety. Ruiz A, et al. **Mycopathologia** 1989 Jun;106(3):167–70

Cryptococcus neoformans var. gattii Vanbreuseghem and Takashio, 1970. De Vroey C, et al. **Mycoses** 1989 Dec; 32(12):675

[A case of cutaneous localized cryptococcosis] Yamada Y, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Feb;100(2):205–9 (Eng. Abstr.) (Jpn)

PATHOLOGY

Cutaneous cryptococcosis simulating Kaposi's sarcoma in the acquired immunodeficiency syndrome. Jones C, et al. **Cutis** 1990 Mar;45(3):163–7

Granulomatous prostatitis induced by capsule-deficient cryptococcal infection. Milchgrub S, et al. **J Urol** 1990 Feb;143(2):365–6

Tissue changes in cryptococcosis: histologic alteration from gelatinous to suppurative granulomatous tissue response with asteroid body. Narisawa Y, et al. **Mycopathologia** 1989 May;106(2):113–9

[Fulminating cryptococcal meningoencephalitis. An anatomo-clinical case] Vermersch P, et al. **Rev Neurol (Paris)** 1990;146(5):372–4 (15 ref.) (Eng. Abstr.) (Fre)

[Cryptococcal multisystemic infections in autopsies carried out at the Department of Pathology of the military hospital in Radom] Hański W, et al. **Pol Tyg Lek** 1989 Apr 10; 44(10–11):253–6 (Pol)

PHYSIOPATHOLOGY

Profound muscle weakness as the presenting feature of disseminated cryptococcal infection. Hurd DD, et al. **Rev Infect Dis** 1989 Nov–Dec;11(6):970–4

PREVENTION & CONTROL

Passive immunization against Cryptococcus neoformans with an isotype-switch family of monoclonal antibodies reactive with cryptococcal polysaccharide. Sanford JE, et al. **Infect Immun** 1990 Jun;58(6):1919–23

RADIOGRAPHY

CT of intracranial cryptococcosis. Popovich MJ, et al. **AJNR** 1990 Jan–Feb;11(1):139–42

CT of intracranial cryptococcosis. Popovich MJ, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):603–6

Cryptococcal pulmonary infection in patients with AIDS: radiographic appearance. Miller WT Jr, et al. **Radiology** 1990 Jun;175(3):725–8

Large mass-like pulmonary cryptococcosis: report of 2 cases. Hsu WH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Nov–Dec;88(11–12):1160–2

[Pulmonary cryptococcosis—a rare differential diagnosis of intrapulmonary coin lesions] Gaa J, et al. **Rontgenblatter** 1990 Jan;43(1):30–3 (Eng. Abstr.) (Ger)

[A case of multiple cavities on chest film with high titer of serum cryptococcal antigen] Maeda J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1330–4 (Eng. Abstr.) (Jpn)

SURGERY

Surgical resection of pulmonary cryptococcomas in the presence of cryptococcal meningitis. Majid AA. **J R Coll Surg Edinb** 1989 Dec;34(6):332–3

[Cryptococcal granuloma of the brain. Report of 7 cases] Li ND. **Chung Hua Wai Ko Tsa Chih** 1989 Aug;27(8):472–3, 509 (Eng. Abstr.) (Chi)

[Surgical treatment of primary pulmonary cryptococcal granuloma—report of 4 cases] Zhao YF, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun;20(2):211–3 (Eng. Abstr.) (Chi)

[A study on clinical findings and surgical treatment of pulmonary mycosis] Yamanaka A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):1893–900 (Eng. Abstr.) (Jpn)

VETERINARY

Evaluation of ketoconazole and itraconazole for treatment of disseminated cryptococcosis in cats. Medleau L, et al. **Am J Vet Res** 1990 Sep;51(9):1454–8

Cryptococcus neoformans infection in goats. Chapman HM, et al. **Aust Vet J** 1990 Jul;67(7):263–5

Ketoconazole therapy in a dog with systemic cryptococcosis. Mason GD, et al. **J Am Vet Med Assoc** 1989 Oct 1; 195(7):954–6

Clinical evaluation of a cryptococcal antigen latex agglutination test for diagnosis of cryptococcosis in cats. Medleau L, et al. **J Am Vet Med Assoc** 1990 May 1; 196(9):1470–3

CRYPTOCOCCUS

ANALYSIS

Cell-wall glucans of Cryptococcus neoformans Cap 67. James PG, et al. **Carbohydr Res** 1990 Apr 2;198(1):23–38

Discriminant analysis of cellular fatty acids of Candida species, Torulopsis glabrata, and Cryptococcus neoformans determined by gas–liquid chromatography. Marumo K, et al. **J Clin Microbiol** 1990 Jul;28(7):1509–13

CLASSIFICATION

Cryptococcus neoformans var. gattii Vanbreuseghem and Takashio, 1970. De Vroey C, et al. **Mycoses** 1989 Dec; 32(12):675

[Serotyping of 27 Cryptococcus neoformans strains isolated in Venezuela] Villanueva E, et al. **Acta Cient Venez** 1989; 40(2):151–4 (Eng. Abstr.) (Spa)

DRUG EFFECTS

Antifungal activity in human cerebrospinal fluid and plasma after intravenous administration of Allium sativum. Davis LE, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):651–3

Comparative morphological and biological studies on the itraconazole- and ketoconazole-resistant mutants of Cryptococcus neoformans. Iwata K, et al. **J Med Vet Mycol** 1990;28(1):77–90

5-Fluorocytosine resistance in clinical isolates of Cryptococcus neoformans. Chin CS, et al. **Med J Malaysia** 1989 Sep;44(3):194–8

[In vitro susceptibility of Cryptococcus strains to 5 antifungal drugs] Bava AJ, et al. **Rev Inst Med Trop Sao Paulo** 1989 Sep–Oct;31(5):346–50 (Eng. Abstr.) (Spa)

ENZYMOLOGY

An NADH:Fe(III)EDTA oxidoreductase from Cryptococcus albidus: an enzyme involved in ethylene production in vivo? Fukuda H, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):107–11

GENETICS

Application of the theory of adaptive polymorphism to the ecology and epidemiology of pathogenic yeasts. Hunter PR, et al. **Appl Environ Microbiol** 1990 Jul;56(7):2219–22

Cloning of 18S and 25S rDNAs from the pathogenic fungus Cryptococcus neoformans. Restrepo BI, et al. **J Bacteriol** 1989 Oct;171(10):5596–600

Rapid genetic identification and mapping of enzymatically amplified ribosomal DNA from several Cryptococcus species. Vilgalys R, et al. **J Bacteriol** 1990 Aug; 172(8):4238–46

Restriction fragment polymorphism in mitochondrial DNA of Cryptococcus neoformans. Varma A, et al. **J Gen Microbiol** 1989 Dec;135 (Pt 12):3353–62

Isolation of the URA5 gene from Cryptococcus neoformans var. neoformans and its use as a selective marker for transformation. Edman JC, et al. **Mol Cell Biol** 1990 Sep; 10(9):4538–44

GROWTH & DEVELOPMENT

Cytoplasmic components of natural killer cells limit the growth of Cryptococcus neoformans. Hidore MR, et al. **J Leukoc Biol** 1990 Jul;48(1):15–26

IMMUNOLOGY

Characterization of a cell population which amplifies the anticryptococcal delayed-type hypersensitivity response. Fidel PL Jr, et al. **Infect Immun** 1990 Feb;58(2):393–8

Opsonic activity of cerebrospinal fluid in experimental cryptococcal meningitis. Hobbs MM, et al. **Infect Immun** 1990 Jul;58(7):2115–9

Growth inhibition of Cryptococcus neoformans by cultured human monocytes: role of the capsule, opsonins, the culture surface, and cytokines. Levitz SM, et al. **Infect Immun** 1990 May;58(5):1201–9

Human natural killer cells do not inhibit growth of Cryptococcus neoformans in the absence of antibody. Miller MF, et al. **Infect Immun** 1990 Mar;58(3):639–45

Opsonization of Cryptococcus neoformans by a family of isotype-switch variant antibodies specific for the capsular polysaccharide. Schlageter AM, et al. **Infect Immun** 1990 Jun;58(6):1914–8

Strain variation in antiphagocytic activity of capsular polysaccharides from Cryptococcus neoformans serotype A. Small JM, et al. **Infect Immun** 1989 Dec;57(12):3751–6

Characterization of Cryptococcus neoformans capsular glucuronoxylomannan polysaccharide with monoclonal antibodies. Todaro-Luck F, et al. **Infect Immun** 1989 Dec; 57(12):3882–7

Clinical evaluation of a cryptococcal antigen latex agglutination test for diagnosis of cryptococcosis in cats. Medleau L, et al. **J Am Vet Med Assoc** 1990 May 1; 196(9):1470–3

Depletion of CD4+ (L3T4+) lymphocytes in vivo impairs murine host defense to Cryptococcus neoformans. Mody CH, et al. **J Immunol** 1990 Feb 15;144(4):1472–7

Phagocytosis and killing of Cryptococcus neoformans by rat alveolar macrophages in the absence of serum. Bolaños B, et al. **J Leukoc Biol** 1989 Dec;46(6):521–8

Phagocytosis of Cryptococcus neoformans by rat alveolar macrophages. Bolaños B, et al. **J Med Vet Mycol** 1989; 27(4):203–17

Killing of Cryptococcus neoformans by rat alveolar macrophages. Bolaños B, et al. **J Med Vet Mycol** 1989; 27(4):219–28

Immunoelectronmicroscopic characterization of monoclonal antibodies (MAbs) against Cryptococcus neoformans. Todaro-Luck F, et al. **Mol Cell Probes** 1989 Dec; 3(4):345–61

Twenty-five years with Cryptococcus neoformans. Bulmer

GS. **Mycopathologia** 1990 Feb;109(2):111–22 (23 ref.)
An anti–Cryptococcus neoformans monoclonal antibody directed against galactoxylomannan. van de Moer A, et al. **Res Immunol** 1990 Jan;141(1):33–42
[A case of multiple cavities on chest film with high titer of serum cryptococcal antigen] Maeda J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1330–4 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Natural habitat of Cryptococcus neoformans var. gattii. Ellis DH, et al. **J Clin Microbiol** 1990 Jul;28(7):1642–4
Isolation of Cryptococcus neoformans gattii from a patient with AIDS in southern California [letter] Clancy MN, et al. **J Infect Dis** 1990 Apr;161(4):809
Clinical and environmental isolates of Cryptococcus neoformans in Bangkok (Thailand). Imwidthaya P, et al. **Mycopathologia** 1989 Oct;108(1):65–7
Isolation of saprophytic Cryptococcus neoformans from Puerto Rico: distribution and variety. Ruiz A, et al. **Mycopathologia** 1989 Jun;106(3):167–70
Staib agar supplemented with a triple antibiotic combination for the detection of Cryptococcus neoformans in clinical specimens. Staib F, et al. **Mycoses** 1989 Sep;32(9):448–54
Isolation of human fungi from soil and identification of two endemic areas of Cryptococcus neoformans and Coccidioides immitis. Rubinstein H, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jan–Feb;31(1):1–6
[Occurrence of the yeast, Cryptococcus (Cr) neoformans, in pigeon droppings] Stenderup J, et al. **Ugeskr Laeger** 1989 Nov 6;151(45):2974–5 (Eng. Abstr.) **(Dan)**
[Distribution of Cryptococcus neoformans in pigeon feces] Yilmaz A, et al. **Mikrobiyol Bul** 1989 Apr;23(2):121–6 (Eng. Abstr.) **(Tur)**

METABOLISM

Cryptococcus neoformans, Candida albicans, and other fungi bind specifically to the glycosphingolipid lactosylceramide (Gal beta 1-4Glc beta 1-1Cer), a possible adhesion receptor for yeasts. Jimenez-Lucho V, et al. **Infect Immun** 1990 Jul; 58(7):2085–90
Production of the hexitol D-mannitol by Cryptococcus neoformans in vitro and in rabbits with experimental meningitis. Wong B, et al. **Infect Immun** 1990 Jun; 58(6):1664–70
[Cryptococci and the carbohydrate polymers they form] Vitovskaia. **Mikrobiol Zh** 1986 May–Jun;48(3):91–101 (89 ref.) **(Rus)**

PATHOGENICITY

Catecholamines and virulence of Cryptococcus neoformans. Polacheck I, et al. **Infect Immun** 1990 Sep;58(9):2919–22
Virulence and antifungal susceptibility of environmental and clinical isolates of Cryptococcus neoformans from Puerto Rico. Fromtling RA, et al. **Mycopathologia** 1989 Jun; 106(3):163–6

ULTRASTRUCTURE

Localization of mannoprotein in Cryptococcus neoformans. Vartivarian SE, et al. **J Bacteriol** 1989 Dec;171(12):6850–2

CRYPTOCOCCUS NEOFORMANS see under **CRYPTOCOCCUS**

CRYPTORCHISM

Experimental cryptorchidism protects against long-term 2,5-hexanedione-induced testicular germ cell loss in the rat. Boekelheide K, et al. **J Androl** 1990 Mar–Apr; 11(2):105–12
[Mechanisms of the undescended testis] Grapin C, et al. **Chir Pediatr** 1989;30(3):134–7 (35 ref.) **(Fre)**

CHEMICALLY INDUCED

Effect of corticosteroid creams on descent of testes in infants. John Radcliffe Hospital Cryptorchidism Study Group. **BMJ** 1990 Jul 28;301(6745):214–5

CLASSIFICATION

[Classification of testicular ectopies] Gruner M. **Chir Pediatr** 1989;30(3):143–5 (0 ref.) **(Fre)**

COMPLICATIONS

Seminoma of normally-descended and cryptorchid testis. Sham JS, et al. **Eur J Surg Oncol** 1990 Feb;16(1):33–6
Fertility in experimental unilateral cryptorchidism. Stewart RJ, et al. **J Pediatr Surg** 1990 Jun;25(6):672–4
Prevalence of carcinoma in situ and other histopathological abnormalities in testes of men with a history of cryptorchidism. Giwercman A, et al. **J Urol** 1989 Oct; 142(4):998–1001: discussion 1001–2
Torsion of an intraabdominal testis tumor presenting as an acute abdomen. Frank RG, et al. **Urol Radiol** 1990; 12(1):50–2
[Cryptorchism and malignant degeneration of the testis] Nikolovski M, et al. **Khirurgila (Sofiia)** 1989;42(4):22–3 **(Bul)**
[Sterility and cryptorchism] Belas M. **Chir Pediatr** 1989; 30(3):148–50 (17 ref.) **(Fre)**
[Ethical problems related to ectopic testis] Brueziere J. **Chir Pediatr** 1989;30(3):170–1 (0 ref.) **(Fre)**
[Acute complications of testicular ectopy] Géraud M, et al. **Chir Pediatr** 1989;30(3):145–6 **(Fre)**
[Fertility in the ex-cryptorchid adult] Gernigon C. **Chir Pediatr** 1989;30(3):166–8 (7 ref.) **(Fre)**
[Malformations associated with testicular ectopy] Grapin C, et al. **Chir Pediatr** 1989;30(3):141–3 **(Fre)**
[Treatment of anomalies associated with ectopies] Grapin C. **Chir Pediatr** 1989;30(3):164 **(Fre)**
[Cryptorchism and cancer of the testis] Leo JP, et al. **Chir Pediatr** 1989;30(3):146–7 (13 ref.) **(Fre)**
[Cryptorchism and fertility. Our experience] Bondavalli C, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):293–5 (Eng. Abstr.) **(Ita)**
[Cryptorchism: long-term results in subjects evaluated in a conjugal infertility service (monolateral cryptorchism fertility)] Giarola A, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):307–14 (Eng. Abstr.) **(Ita)**
[A case of retroperitoneal bulky tumor with cryptorchidism] Harada Y, et al. **Hinyokika Kiyo** 1989 Jun;35(6):1009–14 (Eng. Abstr.) **(Jpn)**
[Undescended testis cancer: report of two cases—review of the literature of 179 cases in Japan] Kikuchi Y, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1791–3 (15 ref.) (Eng. Abstr.) **(Jpn)**
[A case of large traction diverticulum caused by adhesion with undescended testis] Watanabe H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Jan;87(1):119–21 **(Jpn)**
[A rare case of acute abdomen in an hermaphrodite] Takuev KS, et al. **Klin Khir** 1990;(4):68 **(Rus)**
[Seminoma in the undescended testis] Llarena Ibarguren R, et al. **Arch Esp Urol** 1989 Jun;42(5):461–2 (Eng. Abstr.) **(Spa)**
[Cryptorchism associated with hereditary nephritis: a 3-generation study in a Puerto Rican family] Senquiz AL, et al. **Bol Asoc Med P R** 1990 Feb;82(2):62–6 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Occurrence of male phenotype in genotypic females with congenital virilizing adrenal hyperplasia. Chan-Cua S, et al. **Am J Med Genet** 1989 Nov;34(3):406–12
Auditing community screening for undescended testes. Tamhne RC, et al. **Arch Dis Child** 1990 Aug;65(8):888–90
Inter-observer variation in assessment of undescended testis. Analysis of kappa statistics as a coefficient of reliability. Olsen LH. **Br J Urol** 1989 Dec;64(6):644–8
The role of magnetic resonance imaging in the investigation of undescended testes. Troughton AH, et al. **Clin Radiol** 1990 Mar;41(3):178–81
Magnetic resonance imaging in the localization of undescended abdominal testes. Beomonte Zobel B, et al. **Eur Urol** 1990;17(2):145–8
Use of laparoscopy in children with impalpable testes. Doig CM. **Int J Androl** 1989 Dec;12(6):420–2
High-resolution sonography of the undescended testis in childhood: an analysis of 45 cases. Graif M, et al. **Isr J Med Sci** 1990 Jul;26(7):382–5
[Preoperative ultrasonic diagnosis of maldescended testis] Kvist E, et al. **Ugeskr Laeger** 1989 Sep 11;151(37):2374–6 (Eng. Abstr.) **(Dan)**
[Sonographic scanning of the non-descended testes] Persson MP, et al. **Ugeskr Laeger** 1989 Nov 6;151(45):2970–1 (Eng. Abstr.) **(Dan)**
[Significance of the registration of the location of the testis in juvenile health care in order to prevent needless orchidopexies (letter)] De Vries JD. **Ned Tijdschr Geneeskd** 1990 Jan 6;134(1):39–40 **(Dut)**
[The value of the registration of the position of the testis in child health services for the prevention of unnecessary orchiopexies (letter)] Snick HK. **Ned Tijdschr Geneeskd** 1989 Dec 2;133(48):2410 **(Dut)**
[Significance of the registration of testis localization in child health services for the avoidance of unnecessary orchiopexies] Venlet-Melchior CJ, et al. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2084–6 (Eng. Abstr.) **(Dut)**
[Current diagnosis and therapy of undescended testis] Schaefer M, et al. **Klin Padiatr** 1989 Nov–Dec;201(6):452–7 (37 ref.) (Eng. Abstr.) **(Ger)**
[Undescended testis—a review] Johansen TE. **Nord Med** 1989;104(11):285–8 (26 ref.) (Eng. Abstr.) **(Nor)**
[Differential diagnosis of inguinal hernia and cryptorchism in children] Levkovskiĭ AV, et al. **Klin Khir** 1990;(6):63 **(Rus)**

DRUG THERAPY

Prospective evaluation of human chorionic gonadotropin in the treatment of cryptorchidism. Adamsen S, et al. **Acta Chir Scand** 1989 Oct;155(10):509–14
Use of luteinizing-hormone-releasing hormone nasal spray in the treatment of cryptorchidism: is there still an indication? A clinical study in 78 boys with 103 undescended testicles. Witjes JA, et al. **Eur Urol** 1990; 17(3):226–8
Treatment of cryptorchidism with human chorionic gonadotrophin (hCG) or gonadotrophin releasing hormone (GnRH); reply [letter; comment] Hadziselimovic F, et al. **Horm Res** 1989;32(4):151–2 Comment on: Horm Res 1988;30(4–5):187–92.
[Medical treatment of cryptorchism] Toublanc JE. **Chir Pediatr** 1989;30(3):152–7 (54 ref.) **(Fre)**
[Intranasal gonadorelin in the treatment of cryptorchism] Beretta G, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep; 61(3):333–5 (Eng. Abstr.) **(Ita)**
[Indications for the hormonal therapy of cryptorchism] Mazzi C, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):323–7 (Eng. Abstr.) **(Ita)**
[Effects of the treatment using synthetic LH-RH nasal spray in cryptorchism] Muzzi G, et al. **Pediatr Med Chir** 1990 Jan–Feb;12(1):53–5 (Eng. Abstr.) **(Ita)**
[Progress in endocrinology] Hartwig W. **Pol Arch Med Wewn** 1987 Apr;77(4):180–5 (0 ref.) **(Pol)**
[Current methods of treatment of cryptorchism] Matkovskaia AN, et al. **Pediatriia** 1989;(11):91–3 **(Rus)**

EPIDEMIOLOGY

Abnormal findings associated with undescended testis in Nigerian children. Onuora VC, et al. **Indian J Pediatr** 1989 Jul–Aug;56(4):509–11
Cryptorchidism: a registry based study in Sweden on some factors of possible aetiological importance. Hjertkvist M, et al. **J Epidemiol Community Health** 1989 Dec;43(4):324–9

ETIOLOGY

The relationship between cerebral palsy and cryptorchidism. Smith JA, et al. **J Pediatr Surg** 1989 Dec;24(12):1303–5
[Endocrinology of cryptorchidism] Cacciari E, et al. **Pediatr Med Chir** 1989 Nov–Dec;11(6):585–90 (50 ref.) (Eng. Abstr.) **(Ita)**

GENETICS

Deletion of chromosome 1p: a short review. Howard PJ, et al. **Clin Genet** 1990 Feb;37(2):127–31 (13 ref.)
Testicular steroid sulfatase in a cryptorchid rat strain. Mouhadjer N, et al. **J Steroid Biochem** 1989;34(1–6):555–8
The flow cytometric analysis of undescended testes in children. Ring KS, et al. **J Urol** 1990 Aug;144(2 Pt 2):494–8; discussion 512–3
Role for the Wilms tumor gene in genital development? van Heyningen V, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(14):5383–6
[Persistent Mullerian duct syndrome] Gómez Veiga FA, et al. **Arch Esp Urol** 1989 Jun;42(5):455–8 (23 ref.) (Eng. Abstr.) **(Spa)**

METABOLISM

Immunogold distribution of actin during spermiogenesis in the normal rabbit and after experimental cryptorchidism. Fouquet JP, et al. **Gamete Res** 1989 Nov;24(3):281–90
Laminin, type IV collagen, and fibronectin in normal and cryptorchid human testes. An immunohistochemical study. Santamaria L, et al. **Int J Androl** 1990 Apr;13(2):135–46
The blood–testis barrier in experimental unilateral cryptorchidism. Stewart RJ, et al. **J Pathol** 1990 Jan; 160(1):51–5

PATHOLOGY

The effect of non-union of testis and epididymis and of cryptorchidism on the development of epididymis and ductus deferens in the rat. Johansen TE, et al. **Andrologia** 1989 Sep–Oct;21(5):441–8
Relationship of primary site of testis to final testicular size in cryptorchid patients. Puri P, et al. **Br J Urol** 1990 Aug; 66(2):208–10
Effects of hypophysectomy on unilaterally cryptorchid rats. Marovitz WF, et al. **Endocrinology** 1968 Feb;82(2):241–4
Postpubertal cryptorchism. Morphofunctional study with special reference to Leydig's cells. Sirvent JJ, et al. **Eur Urol** 1989;16(6):433–9
Malformations of the epididymis in undescended testis. Koff WJ, et al. **J Urol** 1990 Feb;143(2):340–3
[Anatomic study of bilateral ectopies and of a testis contralateral to an unilateral ectopy] Géraud M, et al. **Chir Pediatr** 1989;30(3):140–1 (11 ref.) **(Fre)**
[Anatomy of the ectopic testis] Loc'h P, et al. **Chir Pediatr** 1989;30(3):137–9 **(Fre)**
[Testicular biopsy in cryptorchism: prognostic parameters] Gambacorta M, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):315–21 (Eng. Abstr.) **(Ita)**
[Morphological findings in cryptorchism in the adult male] Montella A, et al. **Boll Soc Ital Biol Sper** 1990 Mar; 66(3):215–22 (Eng. Abstr.) **(Ita)**
[Large hyalin granules in the cytoplasm of Sertoli cells in the cryptorchid testis. Presentation of a case with considerations on its morphogenesis] Vargas Castrillón J, et al. **An Esp Pediatr** 1989 Jul;31(1):65–6 **(Spa)**

PHYSIOPATHOLOGY

Radioautographic studies in vitro of DNA and RNA synthesis in experimentally produced cryptorchidism in the Fischer rat. Markewitz M, et al. **Fertil Steril** 1966 May–Jun; 17(3):386–95
cAMP response of cultured Sertoli cells from immature and adult hamsters. Effect of hypophysectomy and cryptorchidism. Heindel JJ. **J Androl** 1990 Jan–Feb; 11(1):59–65
Secondary changes in the scrotal testis in experimental unilateral cryptorchidism. Quinn FM, et al.

J Pediatr Surg 1990 Apr;25(4):402–5

[Morphofunctional evaluation of the testes in cryptorchism] Cherstvoĭ ED, et al. **Arkh Patol** 1989;51(8):33–9 (Eng. Abstr.) **(Rus)**

[The hypophyseal–testicular system in cryptorchism patients following surgical treatment] Omel'chuk NN, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):29–34 (Eng. Abstr.) **(Rus)**

[Bilateral testicular re-ascendence] Navarro Laborda C, et al. **An Esp Pediatr** 1990 Apr;32(4):355–6 **(Spa)**

PSYCHOLOGY

[Psychologic effects of testicular ectopy] Lazarovici R. **Chir Pediatr** 1989;30(3):150–2 **(Fre)**

RADIOGRAPHY

Infarcted undescended testis appearing as a calcified abdominal mass in an adult. Wilbur AC, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):547–8

[Evaluation of the value of testicular phlebography] Rovný F, et al. **Rozhl Chir** 1989 Nov;68(11):723–32 (Eng. Abstr.) **(Cze)**

SURGERY

Outpatient orchiopexy and herniotomy in children. Kvist E, et al. **Acta Paediatr Scand** 1989 Sep;78(5):754–8

Undescended testes remain a dilemma despite recent advances in research. Hutson JM, et al. **Aust N Z J Surg** 1990 Jun;60(6):429–39 (141 ref.)

Postoperative analgesia after paediatric orchidopexy: evaluation of a bupivacaine–morphine mixture. Wolf AR, et al. **Br J Anaesth** 1990 Apr;64(4):430–5

Testicular torsion following orchidopexy for undescended testis. O'Shaughnessy M, et al. **Br J Surg** 1990 May; 77(5):583

Early operation for the undescended testis. Scorer CG. **Br J Surg** 1967 Aug;54(8):694–8

Fertility after orchiopexy for cryptorchidism: a new approach to assessment. Kumar D, et al. **Br J Urol** 1989 Nov;64(5):516–20

Management of an unusually high postpubertal presentation of cryptorchidism. Taha SA, et al. **Int Surg** 1990 Apr–Jun; 75(2):105–8

Orchidopexy in a military hospital. Corner NB, et al. **J R Army Med Corps** 1990 Feb;136(1):50–2

Microvascular autotransplantation of the intra-abdominal testis. Harrison CB, et al. **J Urol** 1990 Aug;144(2 Pt 2):506–7; discussion 512–3

Efficacy of orchiopexy by patient age 1 year for cryptorchidism. Kogan SJ, et al. **J Urol** 1990 Aug;144(2 Pt 2):508–9; discussion 512–3

Simplified technique for scrotal pouch orchiopexy. Redman JF. **Urol Clin North Am** 1990 Feb;17(1):9–12

[Treatment of the unpalpable testis] Allouch G. **Chir Pediatr** 1989;30(3):161–2 **(Fre)**

[Prognostic factors of testicular ectopy] Arvis G. **Chir Pediatr** 1989;30(3):169–70 (0 ref.) **(Fre)**

[Surgical treatment of bilateral ectopies] Audry G. **Chir Pediatr** 1989;30(3):162–3 **(Fre)**

[Surgical treatment of the failed orchiopexy] Audry G, et al. **Chir Pediatr** 1989;30(3):165 **(Fre)**

[When is it time to intervene?] Juskiewenski S. **Chir Pediatr** 1989;30(3):164 **(Fre)**

[Treatment of upper testicular ectopies] Mitrofanoff P, et al. **Chir Pediatr** 1989;30(3):159–61 (12 ref.) **(Fre)**

[Surgical treatment of testicular ectopy in ordinary cases] Mollard P. **Chir Pediatr** 1989;30(3):158–9 (0 ref.) **(Fre)**

[Testicular retention in children] Preier L. **Wien Med Wochenschr** 1989 Sep 30;139(18):421–6 (15 ref.) **(Ger)**

[Incidence of accessory adrenal cortex tissue of the inguinal region in the child—results of a prospective study] Lochbühler H, et al. **Z Kinderchir** 1989 Dec;44(6):343–4 (Eng. Abstr.) **(Ger)**

[About the question of indication for surgery of retractile testis] Trammer A, et al. **Z Kinderchir** 1989 Aug;44(4):234–6 (Eng. Abstr.) **(Ger)**

[Maldescensus testis and testicular tumors. Personal experiences] Fahlenkamp D, et al. **Z Urol Nephrol** 1990 May;83(5):239–42 (Eng. Abstr.) **(Ger)**

[Comparison of Cabot/Nesbit orchidopexy with Petrivalsky/Schoemaker orchidopexy] Jankowski A, et al. **Z Urol Nephrol** 1989 Sep;82(9):469–72 (Eng. Abstr.) **(Ger)**

[Fertility in the operated on monolateral cryptorchism patient] Luzzani S, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):329–31 (4 ref.) (Eng. Abstr.) **(Ita)**

[Testicular tumor following orchiopexy: a case report] Okuno T, et al. **Hinyokika Kiyo** 1989 Sep;35(9):1613–5 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Surgical correction of cryptorchism] Gorbatiuk DL, et al. **Klin Khir** 1989;(12):59 **(Rus)**

[Surgical correction of local thermoregulation of the downward-transposed testis in patients with cryptorchism] Treĭvas VS, et al. **Klin Khir** 1989;(9):73–4 **(Rus)**

[Surgical treatment of cryptorchism in children] Kriukov VA, et al. **Vestn Khir** 1989 Aug;144(8):92–4 (Eng. Abstr.) **(Rus)**

[New technic for the treatment of high intraabdominal cryptorchism: testicular autotransplantation with venous anastomosis only] Domini R, et al. **Arch Esp Urol** 1990 May;43(4):375–9 (Eng. Abstr.) **(Spa)**

THERAPY

Undescended testis and orchiopexy: recent observations. Hawtrey CE. **Pediatr Rev** 1990 Apr;11(10):305–8 (13 ref.)

[The management of undescended testes in children] Audry G, et al. **Ann Pediatr (Paris)** 1989 Nov;36(9):632–6 **(Fre)**

[The retained testicle: our experience] Della Morte E. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):281–91 (Eng. Abstr.) **(Ita)**

[Cryptorchism yesterday and today. Update study programmed in interdisciplinary services] Giarola A. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):297–306 (Eng. Abstr.) **(Ita)**

[Updated view of the treatment of unilateral cryptorchism] Solé Balcells F. **Med Clin (Barc)** 1990 May 12;94(18):697–8 **(Spa)**

URINE

[The level of total estrogens in the urine of cryptorchid patients] Nikolovski M, et al. **Akush Ginekol (Sofiia)** 1990; 29(1):64–6 (Eng. Abstr.) **(Bul)**

VETERINARY

Müllerian inhibiting substance is present in testes of dogs with persistent müllerian duct syndrome. Meyers-Wallen VN, et al. **Biol Reprod** 1989 Nov;41(5):881–8

Diagnostic ultrasonography for evaluation of cryptorchidism in horses. Jann HW, et al. **J Am Vet Med Assoc** 1990 Jan 15;196(2):297–300

Malignant seminoma in a cryptorchid stallion. Smith BL, et al. **J Am Vet Med Assoc** 1989 Sep 15;195(6):775–6

Male infertility in the hereditary polydactyly (PD) rat. Kaneda M, et al. **Lab Anim Sci** 1990 Jul;40(4):379–83

Peripheral plasma levels of LH, testosterone, and estradiol-17 beta before and after orchiopexy in unilaterally cryptorchid dogs. Kawakami E, et al. **Nippon Juigaku Zasshi** 1990 Feb; 52(1):179–81

[Cryptorchism in the horse] van der Velden MA. **Tijdschr Diergeneeskd** 1990 May 1;115(9):399–409 (Eng. Abstr.) **(Dut)**

[Cryptorchism in dogs] Van Leeuwen MP, et al. **Tijdschr Diergeneeskd** 1989 Oct 1;114(19):999–1005 (31 ref.) (Eng. Abstr.) **(Dut)**

CRYPTOSPORIDIOSIS

Cryptosporidium species. Zygmunt DJ. **Infect Control Hosp Epidemiol** 1989 Dec;10(12):570–2 (17 ref.)

[Cryptosporidiosis] Miron D, et al. **Harefuah** 1990 Feb 15; 118(4):229–32 (30 ref.) **(Heb)**

COMPLICATIONS

Viral gastro-enteritis in children in Malawi. Pavone R, et al. **Ann Trop Paediatr** 1990 Mar;10(1):15–20

Cryptosporidiosis and acute leukaemia. Foot AB, et al. **Arch Dis Child** 1990 Feb;65(2):236–7

Respiratory cryptosporidiosis in a patient with malignant lymphoma. Report of a case and review of the literature. Travis WD, et al. **Arch Pathol Lab Med** 1990 May; 114(5):519–22 (26 ref.)

Diarrhoea due to cryptosporidium infection in thalassaemia major. Gledhill JA, et al. **BMJ** 1990 Jul 28;301(6745):212–3

Enterovesical fistula in a patient with cryptosporidiosis and AIDS. CT demonstration. Meyers SA, et al. **Clin Imaging** 1990 May;14(2):143–5

Cryptosporidiosis and immune enteropathy: a review. Ma P. **Curr Clin Top Infect Dis** 1987;8:99–153 (192 ref.)

Resolution of intestinal cryptosporidiosis after treatment of AIDS with AZT. Greenberg RE, et al. **Gastroenterology** 1989 Nov;97(5):1327–30

Treatment of intestinal cryptosporidiosis in AIDS [letter] Sogni P. **Gastroenterology** 1990 Aug;99(2):602–3

Protracted enteric cryptosporidial infection in selective immunoglobulin A and saccharomyces opsonin deficiencies. Jacyna MR, et al. **Gut** 1990 Jun;31(6):714–6

Cryptosporidium causing chronic diarrhea. Sehgal R, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):129–31

Intestinal malabsorption and cryptosporidiosis in an adult dog. Greene CE, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):365–7

Cryptosporidiosis as a cause of chronic diarrhoea in a patient with insulin-dependent diabetes mellitus [letter] Chan AW, et al. **J Infect** 1989 Nov;19(3):293

Ileal and jejunal absorptive function in patients with AIDS and enterococcidial infection. Kapembwa MS, et al. **J Infect** 1990 Jul;21(1):43–53

Protozoan infections. Canning EU. **Trans R Soc Trop Med Hyg** 1990;84 Suppl 1:19–24 (35 ref.)

Concurrent infection of enterocytes with Eimeria scabra and other enteropathogens in swine. Koudela B, et al. **Vet Parasitol** 1990 Feb;35(1–2):71–7

Concurrent cryptosporidium and coronavirus infections in an Arabian foal with combined immunodeficiency syndrome. Mair TS, et al. **Vet Rec** 1990 Feb 10; 126(6):127–30

[A case of cryptosporidiosis in breeding laying hens with Marek's disease] Heijmans JF, et al. **Tijdschr Diergeneeskd** 1990 Jul 15;115(14):673–5 (Eng. Abstr.) **(Dut)**

[Prevalence of cryptosporidiosis in infantile diarrhea in Casablanca (letter)] Guessous-Idrissi N, et al. **Presse Med** 1990 Mar 3;19(8):379 **(Fre)**

[Cryptosporidiosis in children] Miron D, et al. **Harefuah** 1990 Mar 15;118(6):315–8 (Eng. Abstr.) **(Heb)**

[Cryptosporidium as a co-pathogen in infantile diarrhea and pneumonia] Bin Gadeem H, et al. **Orv Hetil** 1990 Jul 1; 131(26):1423–5 (Eng. Abstr.) **(Hun)**

[Cryptosporidiosis in children from 1 to 2 years of age, with acute diarrhea in Belém, Pará, Brazil] Loureiro EC, et al. **Mem Inst Oswaldo Cruz** 1990 Jan–Mar;84(1):117–22 (Eng. Abstr.) **(Por)**

[Cryptosporidiosis in the V Region Chile. III. Study of malnourished patients, 1985–1987] Neira P, et al. **Bol Chil Parasitol** 1989 Jan–Jun;44(1–2):34–6 (Eng. Abstr.) **(Spa)**

[Cryptosporidiosis in patients with acquired immunodeficiency syndrome (letter)] Ricseco Contreras F, et al. **Rev Med Chil** 1989 Jan;117(1):81–2 **(Spa)**

DIAGNOSIS

Extended spectrum of symptoms in cryptosporidiosis [letter] Flanigan TP, et al. **Am J Med** 1990 Aug;89(2):252

Cryptosporidial carriage without symptoms in the acquired immunodeficiency syndrome (AIDS) [letter] Janoff EN, et al. **Ann Intern Med** 1990 Jan 1;112(1):75–6

Radiological features of AIDS related cholangitis. McCarty M, et al. **Clin Radiol** 1989 Nov;40(6):582–5

Cryptosporidiosis: clinical features and diagnosis. Garcia LS, et al. **Crit Rev Clin Lab Sci** 1989;27(6):439–60 (164 ref.)

Small-intestinal brushing cytology in the diagnosis of cryptosporidiosis in AIDS. Silverman JF, et al. **Diagn Cytopathol** 1990;6(3):193–6

Cryptosporidiosis in children in Idukki District in southern India. Reinthaler FF, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):89–91

Cryptosporidiosis: report of a case with life-threatening diarrhea. Jongwutiwes S, et al. **J Med Assoc Thai** 1990 Apr;73(4):234–8

[Cryptosporidiosis in children under 2 years of age. Efficacy of 2 technics used for laboratory diagnosis] Mercado R. **Bol Chil Parasitol** 1988 Jan–Jun;43(1–2):28–9 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Efficacy of the somatostatin analogue (SMS-201-995), Sandostatin, for cryptosporidial diarrhoea in patients with AIDS [letter] Clotet B, et al. **AIDS** 1989 Dec;3(12):857–8

Diclazuril in the treatment of severe cryptosporidial diarrhoea in AIDS patients [letter] Connolly GM, et al. **AIDS** 1990 Jul;4(7):700–1

Intestinal crytosporidiosis treated with eflornithine: a prospective study among patients with AIDS. Rolston KV, et al. **J Acquir Immune Defic Syndr** 1989;2(5):426–30

Long-standing symptomatic cryptosporidiosis in a normal man: clinical response to spiramycin. Fafard J, et al. **J Clin Gastroenterol** 1990 Apr;12(2):190–1

[Effect of azidothymidine on cryptosporia diarrhea in a patient with acquired immunodeficiency syndrome (letter)] Sogni P, et al. **Gastroenterol Clin Biol** 1989 Dec; 13(12):1087–8 **(Fre)**

EPIDEMIOLOGY

Prevalence of cryptosporidiosis in patients undergoing endoscopy: evidence for an asymptomatic carrier state. Roberts WG, et al. **Am J Med** 1989 Nov;87(5):537–9

Human cryptosporidiosis associated with an epizootic in calves. Reif JS, et al. **Am J Public Health** 1989 Nov; 79(11):1528–30

Cryptosporidium infection in Oregon public health clinic patients 1985–88: the value of statewide laboratory surveillance. Skeels MR, et al. **Am J Public Health** 1990 Mar;80(3):305–8

Cryptosporidiosis: a cause of diarrhea in Bangladesh [published erratum appears in Am J Trop Med Hyg 1990 Jun;42(6):514] Rahman M, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):127–30

Cryptosporidiosis in chickens from southern Spain. Fernández A, et al. **Avian Dis** 1990 Jan–Mar;34(1):224–7

Cryptosporidiosis in England and Wales: prevalence and clinical and epidemiological features. Public Health Laboratory Service Study Group [see comments] **BMJ** 1990 Mar 24;300(6727):774–7 Comment in: BMJ 1990 May 12;300(6734):1272–3.

Cryptosporidiosis in England and Wales [letter; comment] Thomas AG, et al. **BMJ** 1990 May 12;300(6734):1272–3 Comment on: BMJ 1990 Mar 24;300(6727):774–7.

Cryptosporidiosis in AIDS and non-AIDS patients. Tsaihong JC, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1990 May;23(2):155–61

Communicable disease report January to March 1989. From the PHLS Communicable Disease Surveillance Centre. **Community Med** 1989 Aug;11(3):255–9

The occurrence of Cryptosporidium oocysts in faecal samples submitted for routine examination at Kenyatta National Hospital. Estambale BB, et al. **East Afr Med J** 1989 Dec; 66(12):792–5

Cryptosporidiosis and childhood diarrhoea in a rural community in Kenya. Simwa JM, et al.

East Afr Med J 1989 Aug;66(8):520–5
Epidemiological aspects of human cryptosporidiosis. Casemore DP. Epidemiol Infect 1990 Feb;104(1):1–28 (203 ref.)
An outbreak of waterborne cryptosporidiosis caused by post–treatment contamination. Smith HV, et al. Epidemiol Infect 1989 Dec;103(3):703–15
Cryptosporidiosis—the Indian scene. Malla N, et al. Indian J Pediatr 1989 Jan–Feb;56(1):6–7
Prevalence of cryptosporidium in children with acute diarrhea. Pherwani AV, et al. Indian J Pediatr 1989 Jan–Feb;56(1):133–5
Epidemiology of cryptosporidiosis in children in tropical countries. Reinthaler FF. J Hyg Epidemiol Microbiol Immunol 1989;33(4 Suppl):505–13
Sheep as a source of human cryptosporidiosis. Casemore DP. J Infect 1989 Sep;19(2):101–4
Cryptosporidiosis in white patients in South Africa. Steele AD, et al. J Infect 1989 Nov;19(3):281–5
A probable waterborne outbreak of cryptosporidiosis in the Sheffield area. Rush BA, et al. J Med Microbiol 1990 Aug; 32(4):239–42
Prevalence of Cryptosporidium infection among domestic cats in the Tokyo Metropolitan District, Japan. Arai H, et al. Jpn J Med Sci Biol 1990 Feb;43(1):7–14
Swimming–associated cryptosporidiosis—Los Angeles County. MMWR 1990 May 25;39(20):343–5
Cryptosporidial infections in calves in Kanto District, Japan, and experimental infections in mice. Miyaji S, et al. Nippon Juigaku Zasshi 1990 Apr;52(2):435–7
Cryptosporidiosis: a pathogen more common than appreciated. Neidich GA, et al. S D J Med 1989 Dec; 42(12):5–7
Occurrence and significance of Cryptosporidium infection in Calcutta. Pal S, et al. Trans R Soc Trop Med Hyg 1989 Jul–Aug;83(4):520–1
[Cryptosporidiosis: prevalence in the Rotterdam area and comparison of 2 staining methods for its detection] Bänffer JR, et al. Ned Tijdschr Geneeskd 1989 Nov 11; 133(45):2229–33 (Eng. Abstr.) (Dut)
[Cryptosporidiosis in children: epidemics and sporadic cases] Bretagne S, et al. Ann Pediatr (Paris) 1990 Jun;37(6):381–6 (Eng. Abstr.) (Fre)
[The detection of human cryptosporidiosis in Leningrad] Beier TV, et al. Med Parazitol (Mosk) 1990 Mar–Apr; (2):45–8 (Eng. Abstr.) (Rus)
[Incidence of Cryptosporidium sp in patients treated in a general hospital. Technics for the identification of oocysts in feces] García–Rodríguez JA, et al. Med Clin (Barc) 1989 Jul 1;93(5):164–8 (Eng. Abstr.) (Spa)

ETIOLOGY

Intestinal cryptosporidiosis acquired from a cat. Egger M, et al. Infection 1990 May–Jun;18(3):177–8
Experimental cryptosporidiosis in hamsters. Rossi P, et al. J Clin Microbiol 1990 Feb;28(2):356–7
Apparent inability of Cryptosporidium baileyi of chickens to infect poultry handlers in Bangkok. Jantanavivat C. Trans R Soc Trop Med Hyg 1989 Sep–Oct;83(5):651
[Intestinal cryptosporidiosis in AIDS: apropos of a case] Jemni L, et al. Tunis Med 1989 Nov;67(11):735–7 (Eng. Abstr.) (Fre)

IMMUNOLOGY

Immune response to cryptosporidiosis in Philippine children. Laxer MA, et al. Am J Trop Med Hyg 1990 Feb;42(2):131–9
Effects of colostral antibody on susceptibility of calves to Cryptosporidium parvum infection [published erratum appears in Am J Vet Res 1990 Jul;51(7):1155] Harp JA, et al. Am J Vet Res 1989 Dec;50(12):2117–9
Cryptosporidiosis in guinea pigs: an animal model. Chrisp CE, et al. Infect Immun 1990 Mar;58(3):674–9
Resistance of calves to Cryptosporidium parvum: effects of age and previous exposure. Harp JA, et al. Infect Immun 1990 Jul;58(7):2237–40
New mouse models for chronic Cryptosporidium infection in immunodeficient hosts. Ungar BL, et al. Infect Immun 1990 Apr;58(4):961–9
The role of humoral immunity in Cryptosporidium spp. infection. Studies with B cell–depleted mice. Taghi–Kilani R, et al. J Immunol 1990 Sep 1;145(5):1571–6
Analysis of the kinetics, isotype and specificity of serum and coproantibody in lambs infected with Cryptosporidium parvum. Hill BD, et al. Res Vet Sci 1990 Jan;48(1):76–81

PARASITOLOGY

Asymptomatic carriage of Cryptosporidium in two patients with leukemia [letter] Gentile G, et al. Am J Infect Control 1990 Apr;18(2):127–8
Experimental biliary cryptosporidiosis in broiler chickens. Hatkin JM, et al. Avian Dis 1990 Apr–Jun;34(2):454–7
Cryptosporidiosis—oocyst shedding and infection in household contacts. Perera J, et al. Ceylon Med J 1990 Mar;35(1):11–4
An unusual localization of developmental stages of Cryptosporidium parvum Tyzzer, 1912 in the cells of small intestine of a gnotobiotic piglet. Koudela B, et al. Folia Parasitol (Praha) 1989;36(3):219–22
The pathogenicity of Cryptosporidium parvum Tyzzer, 1912 and C. Baileyi Current, Upton et Haynes, 1986 for chickens. Palkovič L, et al. Folia Parasitol (Praha) 1989;36(3):209–17
Occurrence and localization of Cryptosporidium sp. in spontaneously infected pheasants (Phasianus colchicus L.). Pavlásek I, et al. Folia Parasitol (Praha) 1989;36(3):287–8
Childhood diarrhoea associated with cryptosporidium species in a rural community near Calcutta. Sengupta PG, et al. Indian J Public Health 1988 Oct–Dec;32(4):205–6
Experimental cryptosporidiosis in a primate model. Miller RA, et al. J Infect Dis 1990 Feb;161(2):312–5
Clinical and parasitologic aspects of cryptosporidiosis in nonhuman primates. Miller RA, et al. Lab Anim Sci 1990 Jan;40(1):42–6
Cryptosporidiosis and related diseases. Mahajan RC, et al. Trop Gastroenterol 1989 Apr–Jun;10(2):83–8 (59 ref.)
[Cryptosporidiosis. Characterization of a new infection with special regard to water as the source of infection] Exner M, et al. Zentralbl Hyg Umweltmed 1990 May; 190(1–2):13–25 (48 ref.) (Eng. Abstr.) (Ger)
[Cryptosporidium sp. in children with diarrhea in Cuba] Delfin M, et al. Med Parazitol (Mosk) 1989 Jul–Aug; (4):36–9 (Eng. Abstr.) (Rus)

PATHOLOGY

Intestinal cryptosporidiosis in chickens. Goodwin MA, et al. Avian Dis 1989 Oct–Dec;33(4):770–7
Diarrhea associated with small–intestinal cryptosporidiosis in a budgerigar and in a cockatiel. Goodwin MA, et al. Avian Dis 1989 Oct–Dec;33(4):829–33
Villous atrophy, crypt hyperplasia, cellular infiltration, and impaired glucose–Na absorption in enteric cryptosporidiosis of pigs. Argenzio RA, et al. Gastroenterology 1990 May;98(5 Pt 1):1129–40

PHYSIOPATHOLOGY

Effect of Cryptosporidium baileyi on broilers infected at 26 days of age. Goodwin MA, et al. Avian Dis 1990 Apr–Jun; 34(2):458–62

THERAPY

Treatment with bovine hyperimmune colostrum of cryptosporidial diarrhea in AIDS patients. Nord J, et al. AIDS 1990 Jun;4(6):581–4
Cryptosporidiosis and acute leukemia [letter] Heaton P. Arch Dis Child 1990 Jul;65(7):813–4
Cessation of Cryptosporidium–associated diarrhea in an acquired immunodeficiency syndrome patient after treatment with hyperimmune bovine colostrum. Ungar BL, et al. Gastroenterology 1990 Feb;98(2):486–9
Immunotherapeutic efficacy of bovine colostral immunoglobulins from a hyperimmunized cow against cryptosporidiosis in neonatal mice. Fayer R, et al. Infect Immun 1990 Sep;58(9):2962–5
Total parenteral nutrition in a neonatal llama. Hovda LR, et al. J Am Vet Med Assoc 1990 Jan 15;196(2):319–22
A controlled trial of bovine dialyzable leukocyte extract for cryptosporidiosis in patients with AIDS. McMeeking A, et al. J Infect Dis 1990 Jan;161(1):108–12

TRANSMISSION

Symptoms and transmission of intestinal cryptosporidiosis. Egger M, et al. Arch Dis Child 1990 Apr;65(4):445–7
Impact of waterborne outbreak of cryptosporidiosis on AIDS and renal transplant patients [letter] Clifford CP, et al. Lancet 1990 Jun 16;335(8703):1455–6
[Intestinal cryptosporidiosis: a case of hospital infection] Farías P, et al. Rev Chil Pediatr 1989 Jan–Feb;60(1):44–6 (Eng. Abstr.) (Spa)

CRYPTOSPORIDIUM see under COCCIDIA

CRYSTAL VIOLET see GENTIAN VIOLET

CRYSTALLINIC ACID see NOVOBIOCIN

CRYSTALLINS

Thermodynamics of thermal and athermal denaturation of gamma–crystallins: changes in conformational stability upon glutathione reaction. Kono M, et al. Biochemistry 1990 Jan 16;29(2):464–70
Molecular organization and structural stability of beta s–crystallin from calf lens. Stiuso P, et al. Biochemistry 1990 Apr 24;29(16):3929–36
A dynamic quaternary structure of bovine alpha–crystallin as indicated from intermolecular exchange of subunits. van den Oetelaar PJ, et al. Biochemistry 1990 Apr 10; 29(14):3488–93
Exchange and flip–flop of dimyristoylphosphatidylcholine in liquid–crystalline, gel, and two–component, two–phase large unilamellar vesicles [published erratum appears in Biochemistry 1990 May 15;29(19):4746] Wimley WC, et al. Biochemistry 1990 Feb 6;29(5):1296–303
Oligomerization and conformation change in solutions of calf lens gamma II–crystallin. Results from 1/T1 nuclear magnetic relaxation dispersion profiles. Koenig SH, et al. Biophys J 1990 Mar;57(3):461–9
A structural study of bovine lens alpha–crystallin and its subunits by absorption and linear dichroism spectroscopy. Bloemendal M, et al. Eur J Biochem 1989 Sep 15; 184(2):427–32
In vitro non–enzymatic glycation and formation of browning products in the bovine lens alpha–crystallin. Liang JN, et al. Exp Eye Res 1990 Apr;50(4):367–71
The reaction of proteins with 3–hydroxyanthranilic acid as a possible model for senile nuclear cataract in man. Truscott RJ, et al. Exp Eye Res 1989 Dec;49(6):927–40
Site–specific racemization in aging alpha A–crystallin. Groenen PJ, et al. FEBS Lett 1990 Aug 20;269(1):109–12
Proximity of sulfhydryl groups in lens proteins. Excimer fluorescence of pyrene–labeled crystallins. Sen AC, et al. J Biol Chem 1990 Aug 25;265(24):14277–84
Crystallization of a new form of the eye lens protein beta B2–crystallin. Bax B, et al. J Mol Biol 1989 Aug 20; 208(4):715–7
Prevention of lens protein–induced ocular inflammation with cyclooxygenase and lipoxygenase inhibitors. Chang MS, et al. J Ocul Pharmacol 1989 Winter;5(4):353–60
Molecular cartography of proteins: surface relief analysis of the calf eye lens protein gamma–crystallin. Chirgadze Yu, et al. Protein Eng 1989 Nov;3(2):105–10
[Detection of flat charged clusters on the surface of gamma–crystalline protein] Nikonov SV, et al. Dokl Akad Nauk SSSR 1989;307(6):1494–7 (Rus)

ANALYSIS

A structurally aberrant immunoglobulin paraprotein in a patient with multiple myeloma and corneal crystal deposits. Green ED, et al. Am J Med 1990 Mar;88(3):304–11
Quantitative analysis of protein mixtures by second derivative absorption spectroscopy. Mach H, et al. Anal Biochem 1989 Aug 15;181(1):79–85
The effect of phosphorylation on the structure of alpha–crystallin. Augusteyn RC, et al. Biochim Biophys Acta 1989 Dec 21;999(3):293–9
The alternative splicing product alpha Ains–crystallin is structurally equivalent to alpha A and alpha B subunits in the rat alpha–crystallin aggregate. Hendriks W, et al. Biochim Biophys Acta 1990 Jan 19;1037(1):58–65
Protein–chemical analysis of lens sections obtained by a new sectioning device. Bessems GJ, et al. Dev Ophthalmol 1989; 17:123–7
The crystallin composition of human fetal and adult lens microsections, analyzed by agarose isoelectric focusing. Bours J, et al. Dev Ophthalmol 1989;17:188–91
Differential effects of galactose–induced cataractogenesis on the soluble crystallins of rat lens. Huang WQ, et al. Exp Eye Res 1990 Jul;51(1):79–85
Immunological studies on gamma crystallins from Xenopus: localization, tissue specificity and developmental expression of proteins. Shastry BS. Exp Eye Res 1989 Sep;49(3):361–9
The apparent molecular size of native alpha–crystallin B in non–lenticular tissues. Chiesa R, et al. FEBS Lett 1990 Jul 30;268(1):222–6
Dementia with beta–amyloid deposition: involvement of alpha B–crystallin supports two main diseases [letter] Lowe J, et al. Lancet 1990 Aug 25;336(8713):515–6
Water–insoluble high–molecular–weight and alpha–crystallins as the source of the Scheimpflug light scattering pattern in the rat lens. Bours J, et al. Ophthalmic Res 1990;22 Suppl 1:90–4
Column chromatography, sodium dodecyl sulfate–polyacrylamide gel electrophoresis and two–dimensional electrophoresis of pig lens crystallins. Vidal P, et al. Ophthalmic Res 1990;22(1):31–8
Evolution of eye lens crystallins: the stress connection. de Jong WW, et al. Trends Biochem Sci 1989 Sep;14(9):365–8 (31 ref.)
[Spectrum of the ocular lens in infrared light. II. Characteristics of selected lenses on the basis of their spectra in infrared light] Gutsze A, et al. Klin Oczna 1988; 90 Suppl:469–70 (Eng. Abstr.) (Pol)
[35–kD polypeptides from the frog Rana temporaria: predominant localization in the lens and retina] Simirskii VN, et al. Dokl Akad Nauk SSSR 1989 Nov–Dec; 309(1):207–10 (Rus)
[A structural study of crystallins in the normal and cataractous crystalline lens by x–ray diffraction] Krivandin AV, et al. Oftalmol Zh 1989;(6):365–6 (Eng. Abstr.) (Rus)

BIOSYNTHESIS

Synthesis of alpha–crystallin by a cell line derived from the lens of a transgenic animal. Yamada T, et al. Curr Eye Res 1990 Jan;9(1):31–7
Induction of de novo synthesis of crystalline lenses in aphakic rabbits. Gwon A, et al. Exp Eye Res 1989 Dec;49(6):913–26
Differential synthesis of crystallins in the developing rat eye lens. Voorter CE, et al. Exp Eye Res 1990 Apr;50(4):429–37
[Proteins of the lens] Offret G. J Fr Ophtalmol 1989; 12(8–9):569–78 (57 ref.) (Fre)

DRUG EFFECTS

Calcium–induced aggregation of the urea–deaggregated human lens insoluble protein. Satoh K, et al. Exp Eye Res 1990 Jun;50(6):719–23
Oxidative modification of lens crystallins by H2O2 and chelated iron. Zigler JS Jr, et al. Free Radic Biol Med 1989; 7(5):499–505

GENETICS

Restriction fragment length polymorphisms for growth

hormone, prolactin, osteonectin, alpha crystallin, gamma crystallin, fibronectin and 21-steroid hydroxylase in cattle. Theilmann JL, et al. **Anim Genet** 1989;20(3):257–66

Eye lens zeta-crystailin relationships to the family of "long-chain" alcohol/polyol dehydrogenases. Protein trimming and conservation of stable parts. Borrás T, et al. **Biochemistry** 1989 Jul 25;28(15):6133–9

Regional assignment of the mouse alpha A2-crystallin gene (Crya-1) to chromosome 17A3——B by in situ hybridization. Kaye NW, et al. **Cytogenet Cell Genet** 1990; 53(2–3):95–6

Regulation of the murine alpha A-crystallin promoter in transgenic mice. Wawrousek EF, et al. **Dev Biol** 1990 Jan; 137(1):68–76

Analysis of lens cell fate and eye morphogenesis in transgenic mice ablated for cells of the lens lineage. Breitman ML, et al. **Development** 1989 Jul;106(3):457–63

Human and murine urokinase cDNAs linked to the murine alpha A-crystallin promoter exhibit lens and non-lens expression in transgenic mice. Miskin R, et al. **Eur J Biochem** 1990 May 31;190(1):31–8

The transcripts of zeta-crystallin, a lens protein related to the alcohol dehydrogenase family, are altered in a guinea-pig hereditary cataract. Borrás T, et al. **Exp Eye Res** 1990 Jun;50(6):729–35

Association of hereditary cataracts in strain 13/N guinea-pigs with mutation of the gene for zeta-crystallin. Huang QL, et al. **Exp Eye Res** 1990 Mar;50(3):317–25

Molecular biology: recent studies on enzyme/crystallins and alpha-crystallin gene expression. Piatigorsky J. **Exp Eye Res** 1990 Jun;50(6):725–8 (24 ref.)

Human alpha B-crystallin gene and preferential promoter function in lens. Dubin RA, et al. **Genomics** 1990 Aug; 7(4):594–601

Assignment of the alpha B-crystallin gene to human chromosome 11. Ngo JT, et al. **Genomics** 1989 Nov; 5(4):665–9

The alpha-A-crystallin and cystathionine beta-synthase genes are physically very closely linked in proximal mouse chromosome 17. Stubbs L, et al. **Genomics** 1990 Jun; 7(2):284–8

Regional localization of the fibronectin and gamma-crystallin genes to bovine chromosome 8. Zneimer SM, et al. **Genomics** 1989 Aug;5(2):215–20

Human alpha B-crystallin (CRYA2) gene mapped to chromosome 11q12–q23. Brakenhoff RH, et al. **Hum Genet** 1990 Jul;85(2):237–40

Insulin-like growth factor I and insulin regulate delta-crystallin gene expression in developing lens. Alemany J, et al. **J Biol Chem** 1989 Oct 15;264(29):17559–63

Tissue-specific expression of the chicken alpha A-crystallin gene in cultured lens epithelia and transgenic mice. Klement JF, et al. **J Biol Chem** 1989 Nov 25; 264(33):19837–44

Evolution of a protein superfamily: relationships between vertebrate lens crystallins and microorganism dormancy proteins. Wistow G. **J Mol Evol** 1990 Feb;30(2):140–5

Genetic ablation in transgenic mice with an attenuated diphtheria toxin A gene. Breitman ML, et al. **Mol Cell Biol** 1990 Feb;10(2):474–9

Functional cooperation of lens-specific and nonspecific elements in the delta 1-crystallin enhancer. Goto K, et al. **Mol Cell Biol** 1990 Mar;10(3):958–64

Regulation of the mouse alpha A-crystallin gene: isolation of a cDNA encoding a protein that binds to a cis sequence motif shared with the major histocompatibility complex class I gene and other genes. Nakamura T, et al. **Mol Cell Biol** 1990 Jul;10(7):3700–8

Tissue- and species-specific promoter elements of rat gamma-crystallin genes. Peek R, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1189–97

PvuII and XhoI/EcoRV polymorphisms adjacent to the alpha A-crystallin (CRYA1) gene on human chromosome 21. Petersen MB, et al. **Nucleic Acids Res** 1990 Jul 25; 18(14):4300

Bovine lens membrane proteins: MP70, MP64, and MP38 are products of the same gene. Rao GN, et al. **Ophthalmic Res** 1990;22(3):166–72

Transcriptional stimulation of the delta 1-crystallin gene by insulin-like growth factor I and insulin requires DNA cis elements in chicken. Alemany J, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3353–7

Evidence for neutral and selective processes in the recruitment of enzyme-crystallins in avian lenses. Wistow G, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6277–80

The eye of the blind mole rat (Spalax ehrenbergi): regressive evolution at the molecular level. de Jong WW, et al. **Prog Clin Biol Res** 1990;335:383–95

Molecular evolution from argininosuccinate lyase to delta-crystallin. Mori M, et al. **Prog Clin Biol Res** 1990; 344:683–99

[Structural characteristics of gene family coding for major polypeptides in the squid lens] Zinov'eva RD, et al. **Dokl Akad Nauk SSSR** 1990 Jan-Feb;310(1):222–7 **(Rus)**

IMMUNOLOGY

[Antibodies against alpha, beta, and gamma crystallins in human serum] Xie CF. **Chung Hua Yen Ko Tsa Chih** 1990 May;26(3):165–7 (Eng. Abstr.) **(Chi)**

[Anti-lipopolysaccharide antibody and lens—immunohistological study] Sunakawa M. **Nippon Ganka Gakkai Zasshi** 1989 May;93(5):595–8 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Purification and characterization of a protein containing D-aspartic acid in bovine lens. Fujii N, et al. **Biochim Biophys Acta** 1989 Dec 21;999(3):239–42

Isolation and characterization of three distinct 34 kDa EDTA-extractable proteins from bovine lens. Kobayashi R, et al. **Biochim Biophys Acta** 1990 Apr 23;1034(1):4–10

Purification of a 43,000 dalton aggregate generated from alpha-crystallin. McDermott MJ, et al. **Curr Eye Res** 1989 Aug;8(8):771–9

Size heterogeneity of the water-soluble proteins from human fetal lenses upon development. Bessems GJ, et al. **Dev Ophthalmol** 1989;17:128–31

Beta H- and beta L-crystallins are populations of aggregates. Bloemendal H, et al. **Exp Eye Res** 1990 Jun;50(6):711–3

Rapid separation of bovine beta-crystallin subunits beta B1, beta B2, beta B3, beta A3 and beta A4. Slingsby C, et al. **Exp Eye Res** 1990 Jul;51(1):21–6

Analysis of tryptic peptides from the C-terminal region of alpha-crystallin from cataractous and normal human lenses. Takemoto LJ, et al. **Exp Eye Res** 1990 Jun;50(6):695–702

Cellular distribution of alpha B-crystallin in non-lenticular tissues. Iwaki T, et al. **J Histochem Cytochem** 1990 Jan; 38(1):31–9

METABOLISM

Modeling cortical cataractogenesis: IX. Activity of vitamin E and esters in preventing cataracts and gamma-crystallin leakage from lenses in diabetic rats. Trevithick JR, et al. **Ann N Y Acad Sci** 1989;570:358–71

Aging and cellular maturation cause changes in ubiquitin-eye lens protein conjugates. Jahngen JH, et al. **Arch Biochem Biophys** 1990 Jan;276(1):32–7

Lens crystallin changes associated with amphibian metamorphosis: involvement of a beta-crystallin polypeptide. Jiang YJ, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1423–30

Extremely high levels of NADPH in guinea pig lens: correlation with zeta-crystallin concentration. Rao PV, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1221–8

Kinetic analysis of duck epsilon-crystallin, a lens structural protein with lactate dehydrogenase activity. Chiou SH, et al. **Biochem J** 1990 Apr 1;267(1):51–8

Site of carbamoylation of bovine gamma-II-crystallin by potassium [14C]cyanate. Martin S, et al. **Biochem J** 1989 Sep 15;262(3):909–15

Oxidation of glycated proteins: age-dependent accumulation of N epsilon-(carboxymethyl)lysine in lens proteins. Dunn JA, et al. **Biochemistry** 1989 Nov 28;28(24):9464–8

Glycation of lens proteins by the oxidation products of ascorbic acid. Slight SH, et al. **Biochim Biophys Acta** 1990 May 8;1038(3):367–74

The effect of acute changes in blood glucose on lenses in diabetic and non-diabetic subjects using quasi-elastic light scattering spectroscopy. Bursell SE, et al. **Curr Eye Res** 1989 Aug;8(8):821–34

Identification of epsilon-crystallin from swan lens as lactate dehydrogenase. Chiou SH, et al. **Curr Eye Res** 1989 Oct; 8(10):1055–61

Specificity of alpha crystallin binding to the lens membrane. Ifeanyi F, et al. **Curr Eye Res** 1990 Mar;9(3):259–65

The fate of gamma L crystallins in rat lens during diabetic cataractogenesis as determined by a monoclonal antibody. Swamy MS, et al. **Curr Eye Res** 1989 Oct;8(10):989–96

Targeted ablation of alpha-crystallin-synthesizing cells produces lens-deficient eyes in transgenic mice. Kaur S, et al. **Development** 1989 Mar;105(3):613–9

Hydration properties of lens crystallins. Bettelheim FA, et al. **Exp Eye Res** 1990 Jun;50(6):715–8

Histological and biochemical characterization of the murine cataract mutant Nop. Graw J, et al. **Exp Eye Res** 1990 May;50(5):449–56

Alpha crystallin from human cataractous vs. normal lenses: change in binding to lens membrane. Ifeanyi F, et al. **Exp Eye Res** 1990 Jan;50(1):113–6

Changes in lens proteins induced at the early stage of cataractogenesis in cac (Nakano) mice. Kobayashi S, et al. **Exp Eye Res** 1989 Oct;49(4):553–9

The effects of aminoguanidine on the glycation (non-enzymic glycosylation) of lens proteins. Lewis BS, et al. **Exp Eye Res** 1990 May;50(5):463–7

Modelling cortical cataractogenesis. XI. Vitamin C reduces gamma-crystallin leakage from lenses in diabetic rats. Linklater HA, et al. **Exp Eye Res** 1990 Sep;51(3):241–7

Disulfide cross-linking of urea-insoluble proteins in rabbit lenses treated with hyperbaric oxygen. Padgaonkar V, et al. **Exp Eye Res** 1989 Nov;49(5):887–99

Interaction of an altered beta-crystallin with other proteins in the Philly mouse lens. Russell P, et al. **Exp Eye Res** 1990 Jun;50(6):683–7

Paraformaldehyde fixation and some characteristics of lens proteins as measured by Raman microspectroscopy. Schyns MW, et al. **Exp Eye Res** 1990 Mar;50(3):331–3

Some aspects of Dr Kinoshita's contributions to lens protein chemistry. Spector A. **Exp Eye Res** 1990 Jun;50(6):689–94 (26 ref.)

Fatty acid acylation of lens fiber plasma membrane proteins. MP26 and alpha-crystallin are palmitoylated. Manenti S, et al. **FEBS Lett** 1990 Mar 26;262(2):356–8

Degradation of crystallins from a psoriatic patient undergoing PUVA therapy. Sa e Melo T, et al. **FEBS Lett** 1990 Jul 30;268(1):72–4

The in vivo phosphorylation sites of bovine alpha B-crystallin. Voorter CE, et al. **FEBS Lett** 1989 Dec 18; 259(1):50–2

Lens proteasome shows enhanced rates of degradation of hydroxyl radical modified alpha-crystallin. Murakami K, et al. **Free Radic Biol Med** 1990;8(3):217–22

Phosphorylation and lipocortin-like activity of a 34-kD surface protein in lens epithelial cells: relation to mitogenesis induced by basic fibroblast growth factor. Blanquet PR, et al. **Growth Factors** 1990;3(1):15–23

Antisera to alpha crystallin as probes to study changes in lens proteins during human cataractogenesis. Takemoto L, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1348–52

Purification and characterization of rho-crystallin from Japanese common bullfrog lens. Fujii Y, et al. **J Biol Chem** 1990 Jun 15;265(17):9914–23

Inhibition of alpha-crystallin aggregation by gamma-crystallin. Mach H, et al. **J Biol Chem** 1990 Mar 25;265(9):4844–8

Binding site conformation dictates the color of the dye stains-all. A study of the binding of this dye to the eye lens proteins crystallins. Sharma Y, et al. **J Biol Chem** 1989 Dec 15;264(35):20923–7

Nonenzymatic glycosylation of protein does not increase with age in normal human lenses. Patrick JS, et al. **J Gerontol** 1990 Jan;45(1):B18–23

Lens crystallin reactive protein in the aqueous humor of cataract patients. Fujiwara H. **Jpn J Ophthalmol** 1989; 33(4):418–24

Covalent change in alpha crystallin in opaque and transparent sections from the same human cataractous lens. Kodama T, et al. **Jpn J Ophthalmol** 1990;34(1):44–52

Protein profiles of microsections of the fetal and adult human lens during development and ageing. Bours J, et al. **Mech Ageing Dev** 1990 May 15;54(1):13–27

Age-related changes in proteolysis of aberrant crystallin in bovine lens cell-free preparations. Carmichael PL, et al. **Mech Ageing Dev** 1989 Oct;50(1):37–48

The decomposition and aggregation of rat lens protein induced by selenite in vitro and in vivo. Guo SB, et al. **Nippon Eiseigaku Zasshi** 1989 Jun;44(2):615–21

Changes of lens protein particles during development and reversal of galactose cataracts. Study by laser scattering spectroscopy. Kaneda M, et al. **Ophthalmic Res** 1990;22 Suppl 1:95–100

The decrease of free epsilon-amino groups in senile and diabetic cataracts. Simonelli F, et al. **Ophthalmic Res** 1990; 22(3):160–5

Effect of dietary ascorbic acid on heat-induced eye lens protein damage in guinea pigs. Tsao CS, et al. **Ophthalmic Res** 1990;22(2):106–10

Time resolved spectroscopic studies on the intact human lens. Dillon J, et al. **Photochem Photobiol** 1990 Apr;51(4):465–8

Effect of mercury on selenium binding to rat lens proteins in vitro. Oštádalová I, et al. **Physiol Bohemoslov** 1989; 38(5):427–32

Folding of an all-beta protein: independent domain folding in gamma II-crystallin from calf eye lens. Rudolph R, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4625–9

[Time course of changes in aqueous protein concentration in rhegmatogenous retinal detachment] Oshika T. **Nippon Ganka Gakkai Zasshi** 1990 Jun;94(6):597–603 (Eng. Abstr.) **(Jpn)**

[Corneal crystalline deposits in multiple myeloma] Wakita M, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jun; 93(6):665–75 (Eng. Abstr.) **(Jpn)**

[Glycosylation and concentration of water soluble proteins in the rabbit lens] Cetnarowski L, et al. **Klin Oczna** 1988; 90 Suppl:486–7 (Eng. Abstr.) **(Pol)**

RADIATION EFFECTS

The conformational status of a protein influences the aerobic photolysis of its tryptophan residues: melittin, beta-lactoglobulin and the crystallins. Rao SC, et al. **Photochem Photobiol** 1990 Mar;51(3):357–62

The rates of photolysis of the four individual tryptophan residues in UV exposed calf gamma-II crystallin. Tallmadge DH, et al. **Photochem Photobiol** 1990 Mar; 51(3):363–8

[Mechanism of the photodamage of eye structures. Changes in the lens crystalline charges after ultraviolet irradiation] El'chaninov VV, et al. **Biofizika** 1990 Mar-Apr;35(2):200–4 (Eng. Abstr.) **(Rus)**

[Mechanisms of photodestruction of the eye structure. Formation of polypeptide aggregates upon UV-irradiation of lens proteins] El'chaninov VV, et al. **Biofizika** 1989 Sep-Oct;34(5):758–62 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

The use of pseudosymmetry in the rotation function of gamma IVa-crystallin. White HE, et al. **Acta Crystallogr B** 1988 Apr 1;44 (Pt 2):172–8

Quaternary interactions in eye lens beta-crystallins: basic and acidic subunits of beta-crystallins favor heterologous association. Slingsby C, et al. **Biochemistry** 1990 Jul 17; 29(28):6592–9

Structural conversions of crystallins under senile cataract,

dehydration and UV-irradiation studied by X-ray diffraction. Krivandin AV, et al. **Exp Eye Res** 1989 Nov; 49(5):853–9

Visualization of crystallin droplets associated with cold cataract formation in young intact rat lens. Lo WK. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9926–30

CRYSTALLIZATION

Experimental determination of water equilibration rates in the hanging drop method of protein crystallization. Mikol V, et al. **Anal Biochem** 1990 May 1;186(2):332–9

The ordinary light microscope: an appropriate tool for provisional detection and identification of crystals in synovial fluid. Pascual E, et al. **Ann Rheum Dis** 1989 Dec; 48(12):983–5

Rapid preparation of proteins for crystallization trials. McGrath ME, et al. **Biotechniques** 1989 Mar;7(3):246–7

Structural and stereochemical relations between acidic macromolecules of organic matrices and crystals. Addadi L, et al. **Connect Tissue Res** 1989;21(1–4):127–34; discussion 135 (16 ref.)

Current approaches to macromolecular crystallization. McPherson A. **Eur J Biochem** 1990 Apr 20;189(1):1–23 (81 ref.)

Method for forming two-dimensional paracrystals of biological filaments on lipid monolayers. Ward RJ, et al. **J Electron Microsc Tech** 1990 Apr;14(4):335–41

Two-dimensional crystalline arrays of Na,K-ATPase with new subunit interactions induced by cobalt–tetrammine–ATP. Skriver E, et al. **J Ultrastruct Mol Struct Res** 1989 Dec;102(3):189–95

[Various types of crystalluria due to amoxicillin (letter)] Moesch C, et al. **Ann Biol Clin (Paris)** 1990;48(5):331–2 **(Fre)**

[Use of phase diagrams in crystallization of oligonucleotide duplexes. II. Setting of the crystallized samples] Tereshko VA, et al. **Mol Biol (Mosk)** 1989 Jul–Aug;23(4):1163–70 (Eng. Abstr.) **(Rus)**

[Experience in the use of the tesigraphic method in oncology] Aleksandrova LM, et al. **Sov Med** 1989;(8):83–4 **(Rus)**

CRYSTALLOGRAPHY

About the Coulomb potential in crystals. Becker P, et al. **Acta Crystallogr A** 1990 Apr 1;46 (Pt 4):254–8

A priori estimation of scale and overall anisotropic temperature factors from the Patterson origin peak. Blessing RH, et al. **Acta Crystallogr A** 1988 Sep 1;44 (Pt 5):729–35

On the probabilistic theory of isomorphous data sets: general joint distributions for the SIR, SAS and partial/complete structure cases. Fortier S, et al. **Acta Crystallogr A** 1989 Mar 1;45 (Pt 3):247–54

High-voltage electron diffraction from bacteriorhodopsin (purple membrane) is measurably dynamical. Glaeser RM, et al. **Acta Crystallogr A** 1989 Sep 1;45 (Pt 9):620–8

Direct methods: the identification of space-group-specific inconsistent three-phase structure invariants. Han F, et al. **Acta Crystallogr A** 1988 Jul 1;44 (Pt 4):563–6

Direct methods: the identification of conditions which simplify the generation of inconsistent quadrupoles. Langs DA, et al. **Acta Crystallogr A** 1988 Sep 1;44 (Pt 5):657–61

Explicit Fourier representations of non-ideal hypercentric P.D.F.'s of magnitude of E. Shmueli U, et al. **Acta Crystallogr A** 1989 Mar 1;45 (Pt 3):213–7

Exact random-walk models in crystallographic statistics. IV. P.d.f.'s of [E] allowing for atoms in special positions. Shmueli U, et al. **Acta Crystallogr A** 1988 Jul 1;44 (Pt 4):413–7

Sequential radiation damage in protein crystallography. Sygusch J, et al. **Acta Crystallogr A** 1988 Jul 1;44 (Pt 4):443–8

Helical diffraction. I. The paracrystalline helix and disorder analysis. Worthington CR, et al. **Acta Crystallogr A** 1989 Sep 1;45 (Pt 9):645–54

More space-group changes. Marsh RE, et al. **Acta Crystallogr B** 1988 Feb 1;44 (Pt 1):77–88

Crystallography of biological macromolecules at ultra-low temperature. Hope H. **Annu Rev Biophys Biophys Chem** 1990;19:107–26 (31 ref.)

Theory of zone axis electron diffraction. Bird DM. **J Electron Microsc Tech** 1989 Oct;13(2):77–97 (69 ref.)

Crystal structure of form II of cholesteryl palmitelaidate at 295 K. Srivastava RC, et al. **J Lipid Res** 1989 Jun; 30(6):893–8

Crystallographic consequences of molecular disymmetry. Brittain HG. **Pharm Res** 1990 Jul;7(7):683–90 (34 ref.)

[Crystallographic evaluation of biological substrates] Kalikshtein DB, et al. **Klin Med (Mosk)** 1990 Apr; 68(4):28–31 **(Rus)**

METHODS

The molecular replacement method. Rossmann MG. **Acta Crystallogr A** 1990 Feb 1;46 (Pt 2):73–82 (63 ref.)

Laue crystallography: application to virus crystals. Hajdu J, et al. **Basic Life Sci** 1989;51:331–9

Multiwavelength anomalous diffraction as a direct phasing vehicle in macromolecular crystallography. Hendrickson WA, et al. **Basic Life Sci** 1989;51:317–24

Laue photography from protein crystals. Moffat K, et al. **Basic Life Sci** 1989;51:325–30 (24 ref.)

Convergent beam diffraction studies of interfaces, defects, and multilayers. Cherns D, et al. **J Electron Microsc Tech** 1989 Oct;13(2):111–22

Systematic procedure for indexing HOLZ lines in convergent beam electron diffraction patterns of cubic crystal. Fournier D, et al. **J Electron Microsc Tech** 1989 Oct;13(2):123–49

Progress toward structure determination. Gjønnes J, et al. **J Electron Microsc Tech** 1989 Oct;13(2):98–110

SIRIUS. An automated method for the analysis of the preferred packing arrangements between protein groups. Singh J, et al. **J Mol Biol** 1990 Feb 5;211(3):595–615

CTG, ANTEPARTUM see CARDIOTOCOGRAPHY

CU-ZN SUPEROXIDE DISMUTASE see SUPEROXIDE DISMUTASE

CUBAN AMERICANS see HISPANIC AMERICANS

CUES

Preparation for Donders' type B and C reaction tasks. Hackley SA, et al. **Acta Psychol (Amst)** 1990 Jun; 74(1):15–33

Large and rapid improvement in form discrimination accuracy following a location precue. Lyon DR. **Acta Psychol (Amst)** 1990 Feb;73(1):69–82

Reactivity to alcohol cues and induced moods in alcoholics. Litt MD, et al. **Addict Behav** 1990;15(2):137–46

Autonomic and subjective responses to alcohol stimuli with appropriate control stimuli. Newlin DB, et al. **Addict Behav** 1989;14(6):625–30

Subjective dimensions of heroin urges: influence of heroin-related and affectively negative stimuli. Sherman JE, et al. **Addict Behav** 1989;14(6):611–23

Alcohol cue reactivity and ad lib drinking in young men at risk for alcoholism. Walitzer KS, et al. **Addict Behav** 1990;15(1):29–46

Modulation of environmental reinstatement effects through encoding strategies. McDaniel MA, et al. **Am J Psychol** 1989 Winter;102(4):523–48

Conditioned meal initiation in young children. Birch LL, et al. **Appetite** 1989 Oct;13(2):105–13

The effects of acoustic orientation cues on instrument flight performance in a flight simulator. Lyons TJ, et al. **Aviat Space Environ Med** 1990 Aug;61(8):699–706

Blindsight in rodents: the use of a 'high-level' distance cue in gerbils with lesions of primary visual cortex. Carey DP, et al. **Behav Brain Res** 1990 May 28;38(3):283–9

Enhancing the impact of visual extra-maze cues in a spatial orientation task. Etienne AS, et al. **Behav Brain Res** 1990 May 28;38(3):199–210

Damage to the hippocampal formation in rats selectively impairs the ability to learn cue relationships. Sutherland RJ, et al. **Behav Neural Biol** 1989 Nov;52(3):331–56

Spatial contiguity, not cue-to-consequence, is the issue in taste-potentiated noise-illness associations: comment on Holder, Bermudez-Rattoni, and Garcia (1988). Ellins SR, et al. **Behav Neurosci** 1990 Feb;104(1):230–2

Resisting temptation: a psychological analysis [letter; comment] Brewer C. **Br J Addict** 1989 Nov;84(11):1371–2 Comment on: Br J Addict 1989 Mar;84(3):251–7.

Conditioned learning in alcohol dependence: implications for cue exposure treatment. Drummond DC, et al. **Br J Addict** 1990 Jun;85(6):725–43 (110 ref.)

Information-processing skill and speech-reading. Lyxell B, et al. **Br J Audiol** 1989 Nov;23(4):339–47

Non-verbal cues in the self-presentation of parkinsonian patients. Pitcairn TK, et al. **Br J Clin Psychol** 1990 May; 29 (Pt 2):177–84

Repetition priming from incomplete faces: evidence for part to whole completion. Brunas J, et al. **Br J Psychol** 1990 Feb;81 (Pt 1):43–56

Pictorial priming and cued recall in Alzheimer's and Huntington's disease. Heindel WC, et al. **Brain Cogn** 1990 Jul;13(2):282–95

Children's understanding of cognitive cuing: how to manipulate cues to fool a competitor. Sodian B, et al. **Child Dev** 1990 Jun;61(3):697–704

Contextual gating of memory retrieval. Butler J, et al. **Dev Psychobiol** 1989 Sep;22(6):533–52

Cue exposure as an assessment technique in the management of a heroin addict: case report. Moring J, et al. **Drug Alcohol Depend** 1989 Oct;24(2):161–7

Trans-situational consistency in smoking relapse. Shiffman S. **Health Psychol** 1989;8(4):471–81

Cues: the perceptual edge of the transference. Smith HF. **Int J Psychoanal** 1990;71 (Pt 2):219–28

Role of spectral cues in median plane localization. Asano F, et al. **J Acoust Soc Am** 1990 Jul;88(1):159–68

Discrimination training for persons with developmental disabilities: a comparison of the task demonstration model and the standard prompting hierarchy. Repp AC, et al. **J Appl Behav Anal** 1990 Spring;23(1):43–52

Recognition and expression of emotional cues by autistic and normal adults. Macdonald H, et al. **J Child Psychol Psychiatry** 1989 Nov;30(6):865–77

Training use of compensatory memory books: a three stage behavioral approach. Sohlberg MM, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):871–91

Food cues and perceptual distortion of the female body: implications for food avoidance in the early dynamics of anorexia nervosa. Heilbrun AB Jr, et al. **J Clin Psychol** 1989 Nov;45(6):843–51

Discrimination training of mirror-image stimuli with a delayed-prompt technique: some critical dimensions of extra-stimulus prompts. Smeets PM, et al. **J Exp Child Psychol** 1990 Apr;49(2):275–99

Acquired equivalence and distinctiveness of cues. Honey RC, et al. **J Exp Psychol [Anim Behav]** 1989 Oct;15(4):338–46

Expectancies of reinforcer location and quality as cues for a conditional discrimination in pigeons. Williams DA, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):3–13

Age differences and similarities in the effects of cues and prompts. Hartley AA, et al. **J Exp Psychol [Hum Percept]** 1990 Aug;16(3):523–37

Semantic priming and repetition priming from masked words: evidence for a center-surround attentional mechanism in perceptual recognition. Carr TH, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 Mar;16(2):341–50

Discrimination learning during the first year: stimulus and positional cues. Colombo J, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 Jan;16(1):98–109

Effects of contextual integration on recall of pictures by older adults. Park DC, et al. **J Gerontol** 1990 Mar;45(2):P52–7

Verbalization of appropriate and inappropriate cues in discrimination reversal learning by moderately mentally retarded children. Umetani T, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):487–92

Cognitive cues for use in a case of amphetamine sulfate abuse. O'Connor KP, et al. **J Nerv Ment Dis** 1990 Apr; 178(4):271–2

Unilateral visual neglect overcome by cues implicit in stimulus arrays. Kartsounis LD, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1253–9

Effects of textual cue manipulation on student recall in an information mapped nutrition text. Tanenbaum BG, et al. **J Nurs Educ** 1990 May;29(5):219–24

Inferring emotions from multiple cues: revealing age-related differences in "how" without differences in "can". Wells RS, et al. **J Pers** 1989 Dec;57(4):747–71

Effects of situational aggression cues: a quantitative review. Carlson M, et al. **J Pers Soc Psychol** 1990 Apr;58(4):622–33

Social cues influence growth and sexual maturation of the male musk shrew (Suncus murinus). Rissman EF, et al. **J Reprod Fertil** 1990 Jul;89(2):697–706

Effects of photoperiod and social variables on reproduction and growth in the male musk shrew (Suncus murinus). Wayne NL, et al. **J Reprod Fertil** 1990 Jul;89(2):707–15

"A spinach with a V on it": what 3-year-olds see in standard and enhanced Blissymbols. Bsghavendra P, et al. **J Speech Hear Disord** 1990 Feb;55(1):149–59

Anticipation in squash: differences in advance cue utilization between expert and novice players. Abernethy B. **J Sports Sci** 1990 Spring;8(1):17–34

Treatment preferences of patients and physicians: influences of summary data when framing effects are controlled. Mazur DJ, et al. **Med Decis Making** 1990 Jan–Mar; 10(1):2–5

Enhancement of word completion priming in amnesics by cueing with previously novel associates. Mayes AR, et al. **Neuropsychologia** 1989;27(8):1057–72

Effects of verbal and visual cues on performance of a complex ballistic task. Smith TL, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1163–8

Integration of stereo and texture cues in the formation of discontinuities during three-dimensional surface interpolation. Buckley D, et al. **Perception** 1989; 18(5):563–88

Characteristics of radiation-induced performance changes in bar-press avoidance with and without a preshock warning cue. Burghardt WF Jr, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):549–54

Selective D1 and D2 dopamine antagonists decrease response rates of food-maintained behavior and reduce the discriminative stimulus produced by heroin. Corrigall WA, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):351–5

Ethanol interoceptive cue and sleep-time duration in HAS and LAS selectively bred rats. Krimmer EC. **Pharmacol Biochem Behav** 1990 Jun;36(2):255–60

The effect of coarticulation on the role of transitions in vowel perception. Benguerel AP, et al. **Phonetica** 1989; 46(1–3):80–96

Cognitive restraint and sensitivity to cues for hunger and satiety. Ogden J, et al. **Physiol Behav** 1990 Mar;47(3):477–81

Scopolamine impairs response-to-change based on distal cues in the rat. Poucet B, et al. **Physiol Behav** 1989 Sep; 46(3):355–9

Age differences in predictions and performance on a cued recall task. Shaw RJ, et al. **Psychol Aging** 1989 Jun; 4(2):131–5

Aging and the restructuring of precued movements. Stelmach GE, et al. **Psychol Aging** 1988 Jun;3(2):151–7

Smoking reduction based on a situational model of craving. O'Connor K, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):963–6

Loci for act recall: contextual influence on the processing of action events. Helstrup T. **Psychol Res** 1989;51(4):168–75

Changing environmental cues reduces tolerance to nicotine-induced anorexia. Caggiula AR, et al. **Psychopharmacology (Berl)** 1989;99(3):389–92

Establishing sound blending in moderately mentally retarded children: implications of verbal instruction and pictorial prompting. Hoogeveen FR, et al. **Res Dev Disabil** 1989; 10(4):333–48

[A biorhythmological approach to assessing the influence of olfactory signals on the reproductive status of the brown rat Rattus norvegicus] Sokolov VE, et al.
Izv Akad Nauk SSSR [Biol] 1990 Mar–Apr;(2):248–60 **(Rus)**

CULEX

Evaluation of Bactimos wettable powder, granules and briquets against mosquito larvae in Malaysia. Sulaiman S, et al. **Acta Trop (Basel)** 1990 May;47(4):189–95

Toxicity of protease-resistant domains from the delta-endotoxin of Bacillus thuringiensis subsp. israelensis in Culex quinquefasciatus and Aedes aegypti bioassays. Pfannenstiel MA, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):162–6

Studies on the efficacy and persistence of the microbial agent bacillus sphaericus against larvae of culex pipiens pallens. Zhen TM, et al. **Chin Med J [Engl]** 1989 Jun;102(6):464–8

Structure of the Aedes aegypti (L.) and Culex quinquefasciatus Say (Diptera: Culicidae) populations in the houses of Phnom Penh (Kampuchea). Kohn M.
Folia Parasitol (Praha) 1990;37(2):175–81

Evaluation of Bacillus sphaericus to control breeding of malaria vectors. Ansari MA, et al. **Indian J Malariol** 1989 Mar;26(1):25–31

Growth & toxicity of Bacillus thuringiensis var israelensis. Desai SY, et al. **Indian J Med Res** 1989 Sep;89:314–21

Insecticide tolerance of Culex nigripalpus in Florida [published erratum appears in J Am Mosq Control Assoc 1990 Jun;6(2):306–9] Boike AH Jr, et al.
J Am Mosq Control Assoc 1989 Dec;5(4):522–8

Seasonal abundance and control of Culex spp. in catch basins in Illinois. Geery PR, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):537–40

Control of Culex pipiens by Bacillus sphaericus and role of nontarget arthropods in its recycling. Karch S, et al.
J Am Mosq Control Assoc 1990 Mar;6(1):47–54

Prey selection by mosquitofish (Gambusia affinis) in California rice fields: effect of vegetation and prey species. Linden AL, et al. **J Am Mosq Control Assoc** 1990 Mar; 6(1):115–20

Efficacy of a sustained-release methoprene formulation on potential vectors of Rift Valley fever virus in field studies in Kenya. Linthicum KJ, et al.
J Am Mosq Control Assoc 1989 Dec;5(4):603–5

Penetration rate of two pesticide carriers at a large used-tire storage facility in Chicago, Illinois. Novak RJ, et al.
J Am Mosq Control Assoc 1990 Jun;6(2):188–96

Influence of tadpole shrimp, Triops longicaudatus (Notostraca:Triopsidae), stocking rate on Culex tarsalis development in experimental field microcosms. Tietze NS, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):265–9

Larvivorous fishes in controlling mosquito breeding from draw wells. Joshi RD, et al. **J Commun Dis** 1989 Dec; 21(4):354–9

Susceptibility status of Culex quinquefasciatus (Rajahmundry strain) to insecticides. Krishnarao P, et al.
J Commun Dis 1989 Jun;21(2):145–7

Marking mosquito larvae for mark-release-recapture studies on adults. Paing M, et al. **J Commun Dis** 1988 Dec; 20(4):276–9

Susceptibility status of vectors of Japanese encephalitis to insecticides in south Arcot and Tirunelveli districts of Tamil Nadu. Sundaram RM, et al. **J Commun Dis** 1989 Sep;21(3):218–21

Susceptibility status of Culex vishnui to DDT and dieldrin in Deoria, Uttar Pradesh. Yadava RL, et al.
J Commun Dis 1989 Jun;21(2):137–8

Mosquitoes of the genus Culex in the Suez Canal Governorates. Morsy TA, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):265–8

Preliminary field evaluation of a Malaysian isolate of Bacillus thuringiensis serotype H-14 against Culex pseudovishnui. Lee HL, et al.
Southeast Asian J Trop Med Public Health 1990 Mar; 21(1):143–4

Long residual activity of Bacillus sphaericus 1593 against Culex quinquefasciatus larvae in artificial pools. Pantuwatana S, et al.
Southeast Asian J Trop Med Public Health 1989 Sep; 20(3):421–7

Blood meals of mosquito vectors of filariasis in Guizhou Province, China. Wang SH, et al.
Southeast Asian J Trop Med Public Health 1989 Jun; 20(2):175–7

[Sensitivity of mosquito larvae to insecticides in the region of Tunis in 1984 and 1988] Kooli J, et al.
Arch Inst Pasteur Tunis 1989 Jan–Apr;66(1–2):61–71 (Eng. Abstr.) **(Fre)**

[Use of bacterial insecticides for the control of Culicidae and Simuliidae in Rio Grande do Sul] Ruas Neto A, et al.
Mem Inst Oswaldo Cruz 1989;84 Suppl 3:39–45 **(Por)**

ANALYSIS

Protein constituents of mosquito saliva: studies on Culex molestus. al-Ahdal MN, et al. **J Trop Med Hyg** 1990 Apr; 93(2):98–105

ANATOMY & HISTOLOGY

Prey-size selection by Triops longicaudatus (Notostraca: Triopsidae) feeding on immature stages of Culex quinquefasciatus. Tietze NS, et al.
J Am Mosq Control Assoc 1989 Sep;5(3):392–6

Relationship of wing length to adult dry weight in several mosquito species (Diptera: Culicidae). Nasci RS.
J Med Entomol 1990 Jul;27(4):716–9

CYTOLOGY

Simplified staining in situ of neurosecretory cells of the supraoesophageal ganglion of the female Culex pipiens molestus (Forskal) (Diptera: Culicidae). Ghaffar HA.
Folia Morphol (Praha) 1989;37(3):285–9

DRUG EFFECTS

Toxicity of capillin, the insecticidal principle of Artemisia nilagirica Clarke. Banerji A, et al. **Indian J Exp Biol** 1990 Jun;28(6):588–9

ENZYMOLOGY

Purification and properties of an esterase from organophosphate-resistant strain of the mosquito Culex quinquefasciatus. Merryweather AT, et al. **Biochem J** 1990 Feb 15;266(1):83–90

Glycosaminoglycan (GAG) level and activities of certain enzymes of GAG metabolism in Culex quinquefasciatus and Setaria digitata. Mathai A, et al. **Indian J Exp Biol** 1989 Jul;27(7):644–6

[Variations during developmental process of AchE isoenzyme in susceptible strain and dipterex-resistant strain of the Culex pipiens pallens Coq.] Huang G, et al.
I Chuan Hsueh Pao 1988;15(2):129–37 (Eng. Abstr.) **(Chi)**

GENETICS

Amplification of various esterase B's responsible for organophosphate resistance in Culex mosquitoes. Raymond M, et al. **Biochem Genet** 1989 Aug;27(7–8):417–23

Chromosome aberrations and dominant lethals in Culex fatigans due to mercuric chloride. Sharma GP, et al.
Cytobios 1989;59(238–239):131–5

Interactions between pesticide genes: model and experiment. Raymond M, et al. **Genetics** 1989 Nov;123(3):543–51

Chromosomal organization of the amplified esterase B1 gene in organophosphate-resistant Culex pipiens quinquefasciatus Say (Diptera, Culicidae). Nance E, et al. **Genome** 1990 Feb;33(1):148–52

Yellow larva: a recessive autosomal mutant in Culex quinquefasciatus. Das MK, et al. **J Hered** 1990 Mar–Apr; 81(2):166–7

Larval pigmented head capsule, a sex-linked recessive mutant in Culex quinquefasciatus. Das MK, et al. **J Hered** 1990 May–Jun;81(3):205–6

Characterization of amplification core and esterase B1 gene responsible for insecticide resistance in Culex [published erratum appears in Proc Natl Acad Sci U S A 1990 Jun;87(11):4411] Mouches C, et al.
Proc Natl Acad Sci U S A 1990 Apr;87(7):2574–8

GROWTH & DEVELOPMENT

Pathology of cyclosporin A in mosquito larvae. Weiser J, et al. **Cytobios** 1989;59(238–239):143–50

Colonization of rice fields by mosquitoes (Diptera: Culicidae) and larvivorous predators in asynchronous rice cultivation areas in the Philippines. Mogi M, et al. **J Med Entomol** 1990 Jul;27(4):530–6

Ecology of Culex tarsalis (Diptera: Culicidae): factors influencing larval abundance in mesocosms in southern California. Walton WE, et al. **J Med Entomol** 1990 Jan; 27(1):57–67

IMMUNOLOGY

Immunoblot analysis of allergens in crude mosquito extracts. Wu CH, et al. **Int Arch Allergy Appl Immunol** 1989; 90(3):271–3

METABOLISM

Cytochemical studies of developmental stages during oogenesis in Culex pipiens molestus (Forskål). I. Lipids and carbohydrates. Ramadan AA, et al.
Folia Morphol (Praha) 1990;38(1):66–73

Changes in free amino acid concentration in the hemolymph of the female Culex pipiens pallens (Diptera: Culicidae), after a blood meal. Uchida K, et al. **J Med Entomol** 1990 May;27(3):302–8

MICROBIOLOGY

Transmission of arboviruses to hamsters by the bite of naturally infected Culex (Melanoconion) mosquitoes. Galindo P, et al. **Am J Trop Med Hyg** 1967 Jul;16(4):525–30

Temporal variations in the susceptibility of a semi-isolated population of Culex tarsalis to peroral infection with western equine encephalomyelitis and St. Louis encephalitis viruses. Hardy JL, et al. **Am J Trop Med Hyg** 1990 May; 42(5):500–11

Small scale field trials of Bacillus sphaericus (strain 2362) against anopheline and culicine mosquito larvae in southern Mexico. Arredondo-Jiménez JI, et al.
J Am Mosq Control Assoc 1990 Jun;6(2):300–5

Occurrence of Culex erythrothorax in southeastern Colorado and report of virus isolations from this and other mosquito species. Jakob WL, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):534–6

Comparisons of different types and concentrations of alginates for encapsulation of Lagenidium giganteum (Oomycetes: Lagenidiales), a fungal pathogen of mosquito larvae. Patel KJ, et al. **J Am Mosq Control Assoc** 1990 Mar;6(1):101–4

Methacrylate embedding as a new technique for histopathological studies on the effect of Bacillus thuringiensis against Culex pipiens. Hussein MA, et al.
J Egypt Soc Parasitol 1990 Jun;20(1):197–201

Occurrence of two pathotypes in Bacillus thuringiensis subsp. fukuokaensis (flagellar serotype 3a:3d:3e). Ohba M, et al.
J Invertebr Pathol 1990 Mar;55(2):293–4

Persistence of hepatitis B antigen in Culex quinquefasciatus (Diptera: Culicidae). Fouché A, et al. **J Med Entomol** 1990 Jul;27(4):697–700

Larval diet and the vector competence of Culex annulirostris (Diptera: Culicidae) for Murray Valley encephalitis virus. Kay BH, et al. **J Med Entomol** 1989 Sep;26(5):487–8

Swedish Culex torrentium and Cx. pipiens (Diptera: Culicidae) as experimental vectors of Ockelbo virus. Lundström JO, et al. **J Med Entomol** 1990 Jul;27(4):561–3

Diel changes in adult mosquito microhabitat temperatures and their relationship to the extrinsic incubation of arboviruses in mosquitoes in Kern County, California. Meyer RP, et al. **J Med Entomol** 1990 Jul;27(4):607–14

Venereal transmission of St. Louis encephalitis virus by Culex quinquefasciatus males (Diptera: Culicidae). Shroyer DA. **J Med Entomol** 1990 May;27(3):334–7

Studies on Japanese encephalitis vectors in Indonesia. Suroso T. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):627–8

[Transmission cycles of the West-Nile virus in Madagascar, Indian Ocean] Fontenille D, et al.
Ann Soc Belg Med Trop 1989 Sep;69(3):233–43 (Eng. Abstr.) **(Fre)**

[Serological surveillance of West Nile virus infection in a village of the Central Highlands in Madagascar] Morvan J, et al. **Ann Soc Belg Med Trop** 1990 Mar;70(1):55–63 (Eng. Abstr.) **(Fre)**

[The presence of the Culex (Culex) neavei mosquito in Madagascar, its relevance in the transmission of arboviruses] Fontenille D, et al.
Arch Inst Pasteur Madagascar 1989;56(1):287–95 (Eng. Abstr.) **(Fre)**

PARASITOLOGY

Uptake and development of Wuchereria bancrofti in Culex quinquefasciatus that fed on Haitian carriers with different microfilaria densities. Lowrie RC Jr, et al.
Am J Trop Med Hyg 1989 Oct;41(4):429–35

A simple deterministic model for host-parasite relationship in Wuchereria bancrofti infection & its relevance to parasite regulation in human host. Subramanian S, et al.
Indian J Med Res 1989 Nov;89:411–7

Dimorphic development of Amblyospora sp. (Microspora: Amblyosporidae) in Culex salinarius gynandromorphs. Hall DW. **J Invertebr Pathol** 1990 Mar;55(2):291–2

Susceptibility of Aedes albopictus and Culex tritaeniorhynchus (Diptera: Culicidae) collected in Miki City, Japan, to Dirofilaria immitis (Spirurida: Filariidae). Konishi E. **J Med Entomol** 1989 Sep;26(5):420–4

Comparative susceptibility of Culex tarsalis, Anopheles franciscanus, and Culiseta inornata (Diptera: Culicidae) to Plasmodium relictum (Haemosporidia: Plasmodiidae). Work TM, et al. **J Med Entomol** 1990 Jan;27(1):68–71

Microsporidian infection of Culex peus. Chen WJ, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1990 Jul;6(7):360–5

Vector competency of Culex quinquefasciatus (Haitian strain) following infection with Wuchereria bancrofti. Janousek TE, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct; 83(5):679–80

PHYSIOLOGY

Histological parameters useful in the identification of multiple bloodmeals in mosquitoes. Romoser WS, et al.
Am J Trop Med Hyg 1989 Dec;41(6):737–42

A survey on indoor resting mosquito species in Phnom Penh, Kampuchea. Kohn M. **Folia Parasitol (Praha)** 1990; 37(2):165–74

Studies on malaria and filariasis vectors in Kamorta and Great Nicobar Islands. Das SC, et al. **Indian J Malariol** 1989 Sep; 26(3):153–7

Breeding habitats of mosquitoes in Goa. Kulkarni SM, et al. **Indian J Malariol** 1989 Mar;26(1):41–4

Development time, oviposition activity and onset of diapause in Culex tarsalis, Culex restuans and Culiseta inornata in southern Manitoba. Buth JL, et al.
J Am Mosq Control Assoc 1990 Mar;6(1):55–63

Attractiveness of selected oviposition substrates for gravid Culex tarsalis and Culex quinquefasciatus in California. Reisen WK, et al. **J Am Mosq Control Assoc** 1990 Jun; 6(2):244–50

Day-time resting hubitats of culicine mosquitoes and their preponderance in Bastar district, Madhya Pradesh, India. Kulkarni SM, et al. **J Commun Dis** 1988 Dec;20(4):280–6

Rainfall-directed oviposition behavior of Culex nigripalpus (Diptera: Culicidae) and its influence on St. Louis encephalitis virus transmission in Indian River County,

Florida. Day JF, et al. **J Med Entomol** 1990 Jan;27(1):43–50
Size of blood meals of Aedes albopictus and Culex tritaeniorhynchus (Diptera: Culicidae) feeding on an unrestrained dog infected with Dirofilaria immitis (Spirurida: Filariidae). Konishi E. **J Med Entomol** 1989 Nov;26(6):535–8
Environmental factors influencing oviposition by Culex (Culex) (Diptera: Culicidae) in two types of traps. O'Meara GF, et al. **J Med Entomol** 1989 Nov;26(6):528–34

ULTRASTRUCTURE

Ultrastructural effects of macrotetrolides of Streptomyces griseus LKS–1 in tissues of Culex pipiens larvae. Zižka Z, et al. **Cytobios** 1989;58(233):85–91
Comparative functional morphology of the mouth brushes of mosquito larvae (Diptera: Culicidae). Rashed SS, et al. **J Med Entomol** 1990 Jul;27(4):429–39

CULICOIDES see **CERATOPOGONIDAE**

CULTURAL CHARACTERISTICS see under **CULTURE**

CULTURAL DEPRIVATION

see related
MENTAL RETARDATION, PSYCHOSOCIAL
POVERTY

Disadvantaged adolescents separating from home and hospital: spanning the antipodes through paradox. Schnall D, et al. **Adolesc Psychiatry** 1989;16:435–48
[Recovering from a lag in psychological development after harmful environmental factors have been eliminated] Dumaret A, et al. **Psychiatr Enfant** 1989;32(2):593–615 (Eng. Abstr.) **(Fre)**

CULTURAL DISADVANTAGEMENT see **CULTURAL DEPRIVATION**

CULTURAL EVOLUTION see under **CULTURE**

CULTURE

Socio–cultural aspects of breast–feeding in an affluent society. Arneil GC. **Acta Paediatr Jpn Overseas Ed** 1989 Aug;31(4):373–6
Psychosocial and cultural factors in alcohol and drug abuse: an analysis of a homosexual community. McKirnan DJ, et al. **Addict Behav** 1989;14(5):555–63
Adolescence, the adolescent, and hospital treatment. Gralnick A. **Adolesc Psychiatry** 1989;16:397–411
The emergence of the adolescent patient. Rakoff VM. **Adolesc Psychiatry** 1989;16:372–86; discussion 387–92
The role of culture in the development of paranoid symptomatology. Newhill CE. **Am J Orthopsychiatry** 1990 Apr;60(2):176–85
Perspectives on psychiatry from Asian cultures [letter] Scott WC. **Am J Psychiatry** 1990 Oct;147(10):1392
Transethnic adoption and personality traits: a lesson from Japanese orphans returned from China to Japan. Tseng WS, et al. **Am J Psychiatry** 1990 Mar;147(3):330–5
The transitional personality: dislocation as a major character dynamic. Rubin TI. **Am J Psychoanal** 1990 Mar;50(1):1–10; discussion 11–23
Integration of cultural awareness into psychotherapy. Wohl J. **Am J Psychother** 1989 Jul;43(3):343–55 (22 ref.)
Mood– and nutrient–conditioned appetites. Cultural and physiological bases for eating disorders. Booth DA. **Ann N Y Acad Sci** 1989;575:122–35; discussion 157–62 (72 ref.)
Cultural and subcultural meanings of the menopause. Flint M, et al. **Ann N Y Acad Sci** 1990;592:134–48; discussion 185–92 (43 ref.)
Transcultural nursing. Overcoming obstacles to effective communication. Rothenburger RL. **AORN J** 1990 May; 51(5):1349–54, 1357–63
How culture undermines the biopsychological system of appetite control. Blundell JE. **Appetite** 1990 Apr; 14(2):113–5; discussion 142–3
Fire and ice. Natives, alcohol and spirituality, a northern health paradigm. Colorado P. **Arctic Med Res** 1988;47 Suppl 1:598–603
Adolescence and changing family relations in the Central Canadian Arctic. Condon RG. **Arctic Med Res** 1990 Apr; 49(2):81–92
Culture and high blood pressure: understandings of a chronic illness in an Ojibwa community. Garro LC. **Arctic Med Res** 1988;47 Suppl 1:70–3
What about China? Carpenter H. **Aust Fam Physician** 1990 Apr;19(4):451–2
Using a socio–historical frame to analyse aboriginal self–destructive behaviour. Hunter E. **Aust N Z J Psychiatry** 1990 Jun;24(2):191–8 (34 ref.)
A hierarchical model of the evolution of cooperation in cultural systems. Savatsky K, et al. **Biosystems** 1989; 23(2–3):261–77; discussion 278–9
Supernatural impotence: historical review with anthropological and clinical implications. Margolin J, et al. **Br J Med Psychol** 1989 Dec;62 (Pt 4):333–42
Asian–American cultural perspectives on birth defects: focus on cleft palate. Cheng LR. **Cleft Palate J** 1990 Jul; 27(3):294–300 (36 ref.)
Cultural considerations in the treatment of Latinos with craniofacial malformations. Meyerson MD. **Cleft Palate J** 1990 Jul;27(3):279–88 (106 ref.)
Difference and danger: the cultural dynamics of childhood stigma, rejection, and rescue. Scheper–Hughes N. **Cleft Palate J** 1990 Jul;27(3):301–7; discussion 307–10
Culture, health care, and birth defects in the United States: an introduction. Strauss RP. **Cleft Palate J** 1990 Jul; 27(3):275–8
Cultural considerations in the treatment of craniofacial malformations in African Americans. Toliver–Weddington G. **Cleft Palate J** 1990 Jul;27(3):289–93 (28 ref.)
Psychiatric stigma in the classical and medieval period: a review of the literature. Fabrega H Jr. **Compr Psychiatry** 1990 Jul–Aug;31(4):289–306
Being affected by the other. Bibeau G. **Cult Med Psychiatry** 1990 Jun;14(2):299–310
Kesambet may be a culture–bound syndrome of North–Bali [letter; comment] Suryani LK, et al. **Cult Med Psychiatry** 1989 Dec;13(4):489–93 Comment on: Cult Med Psychiatry 1989 Mar;13(1):25–50.
Illness behavior of housewives in a rural area in Japan: a health diary study. Tonai S, et al. **Cult Med Psychiatry** 1989 Dec;13(4):405–17
Defining a family heritage and a new relationship identity: two central tasks in the making of a marriage. Wamboldt FS, et al. **Fam Process** 1989 Sep;28(3):317–35
The heart, the gut, and brain death in Japan [news] Akatsu H. **Hastings Cent Rep** 1990 Mar–Apr;20(2):2
Selective termination of pregnancy and women's reproductive autonomy. Overall C. **Hastings Cent Rep** 1990 May–Jun;20(3):6–11
Health risk factors among the Amish: results of a survey. Fuchs JA, et al. **Health Educ Q** 1990 Summer;17(2):197–211
Culture and chronic mental illness. Lefley HP. **Hosp Community Psychiatry** 1990 Mar;41(3):277–86 (98 ref.)
The mainstream–where Indians drown. Archibald CW Jr. **HSMHA Health Rep** 1971 Jun;86(6):489–94
Schizophrenia, eye movements, and biocultural heterogeneity. Allen JS, et al. **Hum Biol** 1990 Jun; 62(3):337–52
Transcultural nursing assessment: a method for advancing nursing practice. Giger JN, et al. **Int Nurs Rev** 1990 Jan–Feb;37(1):199–202
Ethnic differences in self poisoning: a comparative study between an Asian and white adolescent group. Biswas S. **J Adolesc** 1990 Jun;13(2):189–93
Avoidable mortality risks and cultural identification among urban Native American youths [letter] Holden G, et al. **J Adolesc Health Care** 1990 Jul;11(4):288
The perception of life events in two different cultural settings. Baratta S, et al. **J Affective Disord** 1990 Feb;18(2):97–104
An American–Japanese transcultural psychoanalysis and the issue of teacher transference. Taketomo Y. **J Am Acad Psychoanal** 1989 Fall;17(3):427–50
Radiographic examination of Chinese foot binding. Mann RW, et al. **J Am Podiatr Med Assoc** 1990 Aug;80(8):405–9
Endogamy among the Dogon of Boni, Mali. Cazes MH. **J Biosoc Sci** 1990 Jan;22(1):85–99
The accent on medical care. Prager KM. **J Fla Med Assoc** 1990 May;77(5):554–5
American political culture and the search for lessons from abroad. Morone JA. **J Health Polit Policy Law** 1990 Spring; 15(1):129–43
An introduction to the Love–Letters: circumstances of publication, context, and cultural commentary. Rousseau GS. **J Homosex** 1990;19(2):47–91
Postural patterns of farmers in the Ryukyu Islands. Imamura K. **J Hum Ergol (Tokyo)** 1989 Jun;18(1):141–5
Ergology and the problem of leisure for Japanese workers [editorial] Saito Y. **J Hum Ergol (Tokyo)** 1989 Jun;18(1):1–2
Biomedical science and the changing culture of clinical practice [editorial] Brody EB. **J Nerv Ment Dis** 1990 May; 178(5):279–81
Evidence for terror management theory: I. The effects of mortality salience on reactions to those who violate or uphold cultural values. Rosenblatt A, et al. **J Pers Soc Psychol** 1989 Oct;57(4):681–90
Health as artifact. Bateson MC. **J Prof Nurs** 1989 Nov–Dec; 5(6):322–5
Western voodoo: providing mental health care to Haitian refugees. Gustafson MB. **J Psychosoc Nurs Ment Health Serv** 1989 Dec;27(12):22–5
The family and disability—some reflections on culture: discussion paper. Frank AO. **J R Soc Med** 1989 Nov; 82(11):666–8
Healers and strangers. Immigrant attitudes toward the physician in America—a relationship in historical perspective. Kraut AM. **JAMA** 1990 Apr 4;263(13):1807–11
The cultures of medicine. **Lit Med** 1989;8:1–165
Culturally sensitive support for grieving parents. Lawson LV. **MCN** 1990 Mar–Apr;15(2):76–9
Sexual and reproductive relationships: cross–cultural evidence and biosocial implications. Frayser SG. **Med Anthropol** 1989 Jul;11(4):385–407 (31 ref.)
Academic, social and cultural factors influencing medical school grade performance. Alfayez SF, et al. **Med Educ** 1990 May;24(3):230–8
Sudden infant death syndrome—the "ANZ factor" [editorial] [see comments] Hassall IB. **Med J Aust** 1989 Oct 2; 151(7):361 Comment in: Med J Aust 1990 May 21;152(10):558–9.
The consultation of traditional healers by Malay patients. Salleh MR. **Med J Malaysia** 1989 Mar;44(1):3–13
A disease of society: cultural responses to AIDS (Part 2). **Milbank Q** 1990;68 Suppl 2:179–319
A disease of society: cultural responses to AIDS (Part 1). **Milbank Q** 1990;68 Suppl 1:1–174
The culture of caring: AIDS and the nursing profession. Fox RC, et al. **Milbank Q** 1990;68 Suppl 2:226–56
The implicated and the immune: cultural responses to AIDS. Goldstein R. **Milbank Q** 1990;68 Suppl 2:295–319
A disease of society: cultural responses to AIDS (Part 1). Introduction. Nelkin D, et al. **Milbank Q** 1990;68 Suppl 1:1–9
Health care across cultures. Anderson JM. **Nurs Outlook** 1990 May–Jun;38(3):136–9
Paradoxes of aspiration for and of children in primitive and isolated cultures. Gajdusek DC. **Pediatr Res** 1990 Jun;27(6 Suppl):S59–61
Outcome for preschoolers of very low birthweight: sociocultural and environmental influences. Pfeiffer SI, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1367–78
Mana, tapu, noa: Maori cultural constructs with medical and psycho–social relevance. Sachdev PS. **Psychol Med** 1989 Nov;19(4):959–69
AIDS prevention among Hispanics: needs, risk behaviors, and cultural values. Marin G. **Public Health Rep** 1989 Sep–Oct;104(5):411–5
Coca in the Andes: traditions, functions and problems. Heath DB. **R I Med J** 1990 Jun;73(6):237–41
The role of obstetrical rituals in the resolution of cultural anomaly. Davis–Floyd RE. **Soc Sci Med** 1990;31(2):175–89
Deaths from injuries and induced abortion among rural Bangladeshi women. Fauveau V, et al. **Soc Sci Med** 1989; 29(9):1121–7
Damaged goods: oral narratives of the experience of disability in American culture. Phillips MJ. **Soc Sci Med** 1990; 30(8):849–57
Behavioural factors affecting physical health of the New Zealand Maori. Sachdev PS. **Soc Sci Med** 1990; 30(4):431–40
In what systems do alcohol/chemical addictions make sense? Clinical ideologies and practices as cultural metaphors. Stein HF. **Soc Sci Med** 1990;30(9):987–1000
Culture in clinical medicine. Hill RF, et al. **South Med J** 1990 Sep;83(9):1071–80 (77 ref.)
Premarital sexuality in urban Nigeria. Feyisetan B, et al. **Stud Fam Plann** 1989 Nov–Dec;20(6 Pt 1):343–54
Mass suicide by members of the Japanese Friend of the Truth Church. Takahashi Y. **Suicide Life Threat Behav** 1989 Fall; 19(3):289–96
Lloyd Roberts memorial lecture. Science, culture and wealth. Noble D. **Trans Med Soc Lond** 1987–88;104:36–52
Mats instead of sheets on hospital beds [letter] Weisz F. **Trop Doct** 1990 Jan;20(1):34–5
Ethics across cultures [editorial] Brink PJ. **West J Nurs Res** 1989 Oct;11(5):518–9
The fattening room revisited [editorial] Brink PJ. **West J Nurs Res** 1990 Apr;12(2):143–4
Ethical issues in nursing research. Davis AJ. **West J Nurs Res** 1990 Jun;12(3):413–6
Culture brokering in migrant farmworker health care. Jezewski MA. **West J Nurs Res** 1990 Aug;12(4):497–513
Childbearing in social context. Simkin P. **Women Health** 1989;15(3):5–21
Epidemiology, anthropology and health education. Robert CF, et al. **World Health Forum** 1989;10(3–4):355–64
Cultural transmission and nutrition. Cavalli–Sforza LL. **World Rev Nutr Diet** 1990;63:35–48 (22 ref.)
[Eurothemes. Aging in a foreign country, an underestimated problem] Spanjer JM. **Ned Tijdschr Geneeskd** 1990 Apr 7;134(14):711–4 **(Dut)**
[National Research Program 26. Part C: Psychosocial and cultural aspects of the AIDS problem] Hausser D, et al. **Soz Praventivmed** 1990;35(2):59–63 **(Fre, Ger)**
[Social psychological and sociocultural aspects of alcohol drinking and alcoholic intoxication behind the wheel] Böcher W. **Blutalkohol** 1990 Mar;27(2):95–105 (Eng. Abstr.) **(Ger)**
[Remarks on the psychological and cultural problems encountered in self–palpation for the early diagnosis of breast neoplasms] Consiglio GC, et al. **Minerva Ginecol** 1989 Dec;41(12):619–23 (Eng. Abstr.) **(Ita)**
[A decade of development of world culture and problems of health care] Zhiliaeva EP. **Sov Zdravookhr** 1990;(3):13–9 **(Rus)**
[The occurrence and possible etiopathogenic interrelations regarding the belief in the return of the dead] Okruhlica L. **Cesk Psychiatr** 1989 Oct;85(5):304–9 (Eng. Abstr.) **(Slo)**

CULTURE DIFFUSION CHAMBERS see **DIFFUSION CHAMBERS, CULTURE**

CULTURE MEDIA

Selection of medium for serum–free primary culture of adult rat hepatocytes. Miyazaki M, et al. **Acta Med Okayama** 1990 Feb;44(1):9–12
Electrophysiological properties of vertebrate Schwann cells in pure culture and in neuron coculture. Lieberman EM, et al. **Acta Physiol Scand Suppl** 1989;582:45
Dependence of cytokine–induced human myelogenous

leukemic cell differentiation on the type of serum in the medium. Sakagami H, et al. **Anticancer Res** 1990 Mar–Apr; 10(2A):385–90

Evaluation of Stuart's transport medium containing penicillinase. An in vitro study. Brief report. Andreasen JJ, et al. **APMIS** 1989 Nov;97(11):1049–51

Improved medium for recovery and enumeration of the farmer's lung organism, Saccharomonospora viridis. Amner W, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2669–74

Semisolid media for isolation of Salmonella spp. from coastal waters. Perales I, et al. **Appl Environ Microbiol** 1989 Nov; 55(11):3032–3

Correlation between culture medium pH, extracellular proteinase activity, and cell growth of Candida albicans in insoluble stratum corneum–supplemented media. Tsuboi R, et al. **Arch Dermatol Res** 1989;281(5):342–5

Development of sheep embryos in vitro in a medium supplemented with different serum fractions. Batt PA, et al. **Aust J Biol Sci** 1988;41(2):189–99

Cytosol type electrolyte medium suitable for long term growth of human cells with very low membrane potential. Kagawa Y, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1217–21

Thrombospondin gene expression by endothelial cells in culture is modulated by cell proliferation, cell shape and the substratum. Canfield AE, et al. **Biochem J** 1990 May 15;268(1):225–30

Effect of agitation rate and impeller design on oxygen transfer coefficients in small bioreactors using surface aeration. Sybert EM, et al. **Biotechniques** 1989 Apr;7(4):368–73

Bone conditioned medium enhances cell aggregation, cell proliferation and alkaline phosphatase activity in serum–deprived medium. Gordon MT, et al. **Bone** 1990; 11(2):121–6

A suitable culture medium for ossification of embryonic chick femur in organ culture. Kaji T, et al. **Bone Miner** 1990 May;9(2):89–100

A comparison of different nutrient media and supplementation with dexamethasone for mouse colon organ culture. Reiss B, et al. **Cell Biol Toxicol** 1984 Oct; 1(1):11–9

Evaluation of four mycobacterial blood culture media: BACTEC 13A, Isolator/BACTEC 12B, Isolator/Middlebrook agar, and a biphasic medium. Agy MB, et al. **Diagn Microbiol Infect Dis** 1989 Jul–Aug; 12(4):303–8

Comparison of transport media for Bacteroides ureolyticus [letter] Bennett KW, et al. **Eur J Clin Microbiol Infect Dis** 1990 Mar;9(3):237–8

Disk diffusion susceptibility testing of Haemophilus influenzae using haemophilus test medium. Doern GV, et al. **Eur J Clin Microbiol Infect Dis** 1990 May;9(5):329–36

Effect of transport medium on recovery of Aeromonas species in intestinal infections [letter] Siitonen A, et al. **Eur J Clin Microbiol Infect Dis** 1990 May;9(5):368–70

The down–regulation of the mitogenic fibrinogen receptor (MFR) in serum–containing medium does not occur in defined medium. Levesque JP, et al. **Exp Cell Res** 1990 Feb;186(2):257–63

Use of burro serum in leucocyte culture media. McFee AF, et al. **Exp Cell Res** 1967 Jun;46(3):619–21

Production and characterisation of Campylobacter jejuni enterotoxin in a synthetic medium and its assay in rat ileal loops. Saha SK, et al. **FEMS Microbiol Lett** 1990 Feb; 55(3):333–8

Culture media for in vitro fertilization [letter] Sachs HH, et al. **Fertil Steril** 1990 May;53(5):953–4

Frozen storage of Ham's F10 medium for human in–vitro fertilization. Bernart W, et al. **Hum Reprod** 1990 Jul; 5(5):610–2

Improved methods for preparation of culture media for in–vitro fertilization and gamete intra–fallopian transfer. Hammitt DG, et al. **Hum Reprod** 1990 May;5(4):457–63

Serum can act as a shear protecting agent in agitated hybridoma cell cultures. Lee GM, et al. **Hybridoma** 1989 Dec;8(6):639–45

Preparation and use of lipid microemulsions as nutritional supplements for culturing mammalian cells. Darfler FJ. **In Vitro Cell Dev Biol** 1990 Aug;26(8):779–83

A protein–free medium for the growth of hybridomas and other cells of the immune system. Darfler FJ. **In Vitro Cell Dev Biol** 1990 Aug;26(8):769–78

Short–term cultivation of murine thymic epithelial cells in a serum–free medium. Ropke C, et al. **In Vitro Cell Dev Biol** 1990 Jul;26(7):671–81

A system employing a minimal defined medium for the selection of tumorigenic cells. Schaeffer WI, et al. **In Vitro Cell Dev Biol** 1990 Jul;26(7):737–40

Perfluorocarbon–based medium for culture of the early chick embryo heart. Scialli AR, et al. **In Vitro Cell Dev Biol** 1990 May;26(5):507–10

Evaluation of a modified medium for the one hour urease test for Helicobacter pylori infection. Khanna MU, et al. **Indian J Gastroenterol** 1990 Jul;9(3):219–20

Effect of temperature, cholesterol and nerve tissue on multiplication of armadillo M. leprae. Bhatia VN. **Indian J Lepr** 1989 Oct;61(4):453–7

Growth of Mycobacterium leprae in a redox system: III. Evidence of growth at low temperature (psychrophilia) and, further refinement of growth medium. Chatterjee BR, et al. **Indian J Lepr** 1989 Oct;61(4):458–66

Pharmacopoeia of culture media for food microbiology—additional monographs. **Int J Food Microbiol** 1989 Sep;9(2):85–144

The evaluation of the recovery capacity of media for heat–treated Bacillus stearothermophilus spore strips. Brown GD, et al. **Int J Food Microbiol** 1988 Oct; 7(2):109–14

Use of MRSD medium and the hydrophobic grid membrane filter technique to differentiate between pediococci and lactobacilli in fermented meat and starter cultures. Holley RA, et al. **Int J Food Microbiol** 1988 Oct;7(2):87–102

A conductance medium to distinguish between Salmonella and Citrobacter spp. Ogden ID. **Int J Food Microbiol** 1988 Dec 31;7(4):287–97

Interactions between human glioma cells and fetal rat brain aggregates studied in a chemically defined medium. Lund–Johansen M. **Invasion Metastasis** 1990;10(2):113–28

Effect of culture–medium temperature on growth of Neisseria gonorrhoeae. Cathcart SK, et al. **J Am Osteopath Assoc** 1990 Aug;90(8):683–5

The effect of macromolecular rat serum fractions on conceptuses cultured in human serum: role of transferrin. Gulamhusein AP, et al. **J Anat** 1990 Feb;168:113–21

Comparison of improved BACTEC and Lowenstein–Jensen media for culture of mycobacteria from clinical specimens. Anargyros P, et al. **J Clin Microbiol** 1990 Jun;28(6):1288–91

Selective medium for Pasteurella multocida and its use to detect oropharyngeal carriage in pig breeders. Avril JL, et al. **J Clin Microbiol** 1990 Jun;28(6):1438–40

Modified method for testing the quality of albumin–containing enrichments used in growth media for mycobacteria. Butler WR, et al. **J Clin Microbiol** 1990 May; 28(5):1068–70

Effects of bovine serum albumin on the ability of Barbour–Stoenner–Kelly medium to detect Borrelia burgdorferi. Callister SM, et al. **J Clin Microbiol** 1990 Feb; 28(2):363–5

New selective medium for the isolation of Neisseria gonorrhoeae. Evans GL, et al. **J Clin Microbiol** 1989 Nov; 27(11):2471–4

Growth of Trichomonas vaginalis in commercial culture media. Gelbart SM, et al. **J Clin Microbiol** 1990 May; 28(5):962–4

Comparison of a serum replacement (Omni Serum) and fetal bovine serum in cell cultures used to isolate herpes simplex virus from clinical specimens. Johnston S, et al. **J Clin Microbiol** 1990 Apr;28(4):643–5

Selective medium for isolation of Bacteroides gracilis. Lee K, et al. **J Clin Microbiol** 1990 Aug;28(8):1747–50

In vitro simulation of in vivo conditions: physical state of the culture medium. Lorian V. **J Clin Microbiol** 1989 Nov; 27(11):2403–6 (45 ref.)

Description of a medium for isolating Anaerobiospirillum spp., a possible cause of zoonotic disease, from diarrheal feces and blood of humans and use of the medium in a survey of human, canine, and feline feces. Malnick H, et al. **J Clin Microbiol** 1990 Jun;28(6):1380–4

Presumptive identification of Clostridium difficile by detection of p–cresol in prepared peptone yeast glucose broth supplemented with p–hydroxyphenylacetic acid. Sivsammye G, et al. **J Clin Microbiol** 1990 Aug; 28(8):1851–3

Cord formation in BACTEC 7H12 medium for rapid, presumptive identification of Mycobacterium tuberculosis complex. Yagupsky PV, et al. **J Clin Microbiol** 1990 Jun; 28(6):1451–3

Comparison of solid media for cultivation of anaerobes. Heginbothom M, et al. **J Clin Pathol** 1990 Mar;43(3):253–6

The use of an alginic acid matrix to support in vitro development of isolated murine blastomeres. Eaton NL, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):28–32

Human amniotic fluid for fertilization and culture of human embryos: results of clinical trials in human in vitro fertilization (IVF) programs. Gianaroli L, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):213–7

Optimization and simplification of culture conditions in human in vitro fertilization (IVF) and preembryo replacement by serum–free media. Holst N, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):47–53

Efficiency of modified medium for direct chromosome preparation of the chorionic villi. Kangwanpong D, et al. **J Med Assoc Thai** 1990 Feb;73 Suppl 1:73–6

New carbon dioxide–independent basal growth medium for culture of diverse tumor and nontumor cells of human and nonhuman origin. Vistica DT, et al. **J Natl Cancer Inst** 1990 Jun 20;82(12):1055–61

A chemically–defined medium for organotypic slice cultures. Annis CM, et al. **J Neurosci Methods** 1990 Apr;32(1):63–70

Long–term cultivation of cryopreserved human fetal brain cells in a chemically defined medium. Haselbacher G, et al. **J Neurosci Methods** 1989 Nov;30(2):121–31

Nutritional studies on Acanthamoeba culbertsoni and development of chemically defined medium. Shukla OP, et al. **J Protozool** 1990 May–Jun;37(3):237–42

Ethanol–induced inhibition of testosterone biosynthesis in rat Leydig cells: role of culture medium composition. Orpana AK, et al. **J Steroid Biochem** 1989 Dec;33(6):1243–8

Comparison of fortified calf serum, serum substitutes and fetal calf serum with or without extenders for propagation of cell cultures for virus plaque assays. Dahling DR, et al. **J Virol Methods** 1990 Mar;27(3):287–94

Growth and differentiation of human distal airway epithelial cells in culture. Effects of small amounts of serum in defined medium. Kitamura H, et al. **Lab Invest** 1990 Sep;63(3):420–8

Evaluation of the GO Slide, a growth transport system for the laboratory diagnosis of gonorrhoea. Lim YS, et al. **Malays J Pathol** 1989 Aug;11:21–4

Apparent failure of brain heart infusion broth to cultivate meningococci from clinically infected patients. Glaister D, et al. **Med Lab Sci** 1990 Jul;47(3):158–62

An investigation of culture media for the isolation of shigellae. Hunt AL, et al. **Med Lab Sci** 1990 Jul;47(3):151–7

The improved recovery of Candida albicans from fluid culture media. Reeder JC, et al. **Microbios** 1989; 60(243):71–7

Effect of culture conditions and media on the frequency of chromosomal abnormalities in human sperm chromosome complements. Martin RH, et al. **Mol Reprod Dev** 1990 Jun; 26(2):101–4

Human lymphocyte proliferation kinetics in Hanks' BSS supplemented with autologous plasma and in synthetic medium. Gonsebatt ME, et al. **Mutat Res** 1990 Apr; 243(4):255–8

Iron–supplemented bovine serum as an alternative to fetal bovine serum in the CHO/HGPRT mutation assay. Oberly TJ, et al. **Mutat Res** 1990 Jun;244(2):105–9

Lipid cell culture supplements. Goodwin RH. **Nature** 1990 Sep 13;347(6289):209–10

31P NMR of mammalian cells encapsulated in alginate gels utilizing a new phosphate–free perfusion medium. Narayan KS, et al. **NMR Biomed** 1990 Feb;3(1):23–6

Two membrane filter media (mADA/0129 and mSA/0129 agars) for enumeration of motile Aeromonas in seawater. Alonso JL, et al. **Zentralbl Hyg Umweltmed** 1989 Oct; 189(1):14–9

[A medium available in Czechoslovakia for the culture of Entamoeba histolytica and Giardia intestinalis] Cerva L. **Cesk Epidemiol Mikrobiol Imunol** 1989 Jul;38(4):245–9 (Eng. Abstr.) **(Cze)**

[Fluorometric evaluation of aflatoxigenic strains of the molds Aspergillus flavus and Aspergillus parasiticus after culture in liquid medium] Dvořák M, et al. **Vet Med (Praha)** 1989 Jul;34(7):431–9 (Eng. Abstr.) **(Cze)**

[Effect of culture duration and osmolarity of the medium on nuclear surface in vitro] Scholz C, et al. **Arch Gynecol Obstet** 1989;245(1–4):663–5 **(Ger)**

[Effect of ultraviolet light on the UV/VIS absorption spectrum of components of Eagle (MEM) cell culture medium] Bollmann G, et al. **Folia Haematol (Leipz)** 1990; 117(1):201–7 (Eng. Abstr.) **(Ger)**

[Bacterial biofilms and medical practice] Kétyi I. **Orv Hetil** 1989 Nov 12;130(46):2455–7 (Eng. Abstr.) **(Hun)**

[Sensitivity test for anti–tumor agents. 1. Application of human cord serum—as cellular growth factor] Wada Y, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):97–102 (Eng. Abstr.) **(Jpn)**

[Influence of Mueller–Hinton broth on the in vitro activities of cefuzoname, flomoxef, imipenem, and minocycline against Staphylococcus aureus] Fujita S, et al. **Jpn J Antibiot** 1990 May;43(5):757–60 (Eng. Abstr.) **(Jpn)**

[Effects of DEAE–dextran, centrifugation, cycloheximide and their combination on infection and growth of Chlamydia psittaci bird isolates] Miyake T, et al. **Kansenshogaku Zasshi** 1990 Jan;64(1):87–95 (Eng. Abstr.) **(Jpn)**

[Retinoic acid modification of cell culture used for reproduction of enteropathogenic viruses] Tatskaia VN, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):93–5 (Eng. Abstr.) **(Rus)**

[The ability to grow on Levine's or Endo's media as a test for the identification of enterococci] Fel'dman IuM, et al. **Lab Delo** 1989;(12):69–70 (Eng. Abstr.) **(Rus)**

[A method of isolating Vibrio parahaemolyticus from different substrates] Ibragimov FKh, et al. **Lab Delo** 1990; (5):71–2 (Eng. Abstr.) **(Rus)**

[Media for determining the DNAase of Klebsiella] Martynenko LD, et al. **Lab Delo** 1989;(8):61–2 (Eng. Abstr.) **(Rus)**

[Nutrient media for fermenting Actinomyces] Mel'nikov VG, et al. **Lab Delo** 1990;(5):68–70 (Eng. Abstr.) **(Rus)**

[A comparative study of nutrient media for isolating Corynebacterium diphtheriae] Shepilova RG, et al. **Lab Delo** 1989;(8):62–4 (Eng. Abstr.) **(Rus)**

[A liquid nutrient medium for isolating Yersinia] Tseneva GIa, et al. **Lab Delo** 1990;(5):66–8 **(Rus)**

[Selection of nutritional media for studying the anti–microbial action of silver ions on Escherichia coli] Savluk OS, et al. **Mikrobiol Zh** 1984 Nov–Dec;46(6):72–4 (Eng. Abstr.) **(Rus)**

[Hydrophilic–hydrophobic properties of microorganisms under various culturing conditions] Nikovskaia GN, et al. **Mikrobiologiia** 1989 May–Jun;58(3):448–51 (Eng. Abstr.) **(Rus)**

[Development of a culture medium for growing Mycobacterium tuberculosis] Chichibabin ES. **Probl Tuberk** 1990;(5):60–1 (Eng. Abstr.) **(Rus)**

[Enzymatic hydrolysate of muscle proteins as the basis for nutrients for cell cultures] Sergeev VA, et al. **Vopr Virusol** 1989 Sep–Oct;34(5):623–7 **(Rus)**

[Universal media in research on pathologic material and environmental objects. Myth or reality?] Kalina GP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):110–7 (29 ref.) **(Rus)**

ANALYSIS

NMR studies of a bacterial cell culture medium (LB broth): cyclic nucleotides in yeast extracts. Rayner MH, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1-2):217-21

Purification of hexabrachion (tenascin) from cell culture conditioned medium, and separation from a cell adhesion factor. Aukhil I, et al. **Matrix** 1990 May;10(2):98-111

[An enzymatic method for the quantitative determination of acetic acid in a culture broth] Krishtab TP, et al. **Mikrobiol Zh** 1985 Jan-Feb;47(1):86-8 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Isolation of melanized cell lines with stable phenotypes from a goldfish erythrophoroma cell line and cryopreservation of these cells by the use of autologous serum. Chou SC, et al. **In Vitro Cell Dev Biol** 1989 Sep;25(9):813-20

ISOLATION & PURIFICATION

[A method for checking the integrity and quality of membrane filters for sterilizing nutrient culture media] Allakhverdiev AM. **Med Parazitol (Mosk)** 1989 Nov-Dec; (6):67-8 (Eng. Abstr.) **(Rus)**

METABOLISM

The relationship between treatment duration and temperature for hyperthermia induced lethality of cultured murine cells. Influence of medium conditions. Haveman J, et al. **Eur J Cancer Clin Oncol** 1989 Nov;25(11):1629-35

[Intensification of the growth and development of Bacillus thuringiensis H14 266/2-1 by optimizing the nutrient medium] Osadchaia AI, et al. **Mikrobiol Zh** 1989 Sep-Oct; 51(5):20-5 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Development of 1-cell embryos from different strains of mice in CZB medium. Chatot CL, et al. **Biol Reprod** 1990 Mar; 42(3):432-40

Suppression of lymphocyte reactivity by culture supernatant from horse embryos and endometrium. Watson ED. **Biol Reprod** 1990 Feb;42(2):294-300

Sympathetic nervous system and PC12 pheochromocytoma-derived factors suppress stimulation of lymphocytes. Chelmicka-Schorr E, et al. **Brain Behav Immun** 1990 Mar;4(1):23-9

Stimulation of astroglial serotonin receptors produces culture media which regulates growth of serotonergic neurons. Whitaker-Azmitia PM, et al. **Brain Res** 1989 Sep 11; 497(1):80-5

Comparative responsiveness of early chick embryo brainstem and spinal cord neurons to target-conditioned medium. Heaton MB. **Dev Neurosci** 1989;11(6):391-6

Expression of high molecular weight astroglial extracellular proteins is altered by growth environment. Quarless SA, et al. **GLIA** 1989;2(6):403-11

An autocrine activity capable of substituting for serum in cell cultures. Böhmer RM, et al. **Growth Factors** 1989; 1(4):347-56

Mitogen-induced initiation of DNA synthesis by lymphocytes cultured in serum-free media [letter] Li W, et al. **Immunol Lett** 1990 Jan;23(3):235-6

Cultivation of HeLa cells with fetal bovine serum or Ultroser G: effects on the plasma membrane constitution. Blixt Y, et al. **In Vitro Cell Dev Biol** 1990 Jul;26(7):691-700

Serum-free medium conditions for steroidogenesis of bovine follicular thecal cells cultured on collagen gel matrix. Ikeda H. **In Vitro Cell Dev Biol** 1990 Feb;26(2):193-200

Effects of medium and substratum conditions on the rates of DNA synthesis in primary cultures of bile ductular epithelial cells. Mathis GA, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):113-8

Stimulation of myeloid colony growth from peripheral blood by medium with an initially low osmolality. Tennant GB. **Int J Cell Cloning** 1990 Mar;8(2):123-9

Effect of egg yolk medium on the acrosome reaction of human spermatozoa. Bielfeld P, et al. **J Androl** 1990 May-Jun;11(3):260-9

Conditioned medium from ras oncogene-transformed NIH 3T3 cells induces bone resorption in vitro. Krieger NS, et al. **J Bone Miner Res** 1990 Feb;5(2):159-64

Culture of primary lung tumors using medium conditioned by a lung carcinoma cell line. Siegfried JM. **J Cell Biochem** 1989 Oct;41(2):91-5

Magnesium and phosphate enrichment of culture medium stimulates the proliferation of epidermal cells from newborn and adult mice. Tennenbaum T, et al. **J Cell Physiol** 1990 Jun;143(3):431-8

In vitro fertilization (IVF) of mouse ova in HEPES-buffered culture media. Behr BR, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):9-15

Preincubation of human spermatozoa in test-yolk medium: effect on penetration of zona-free hamster oocytes and correlation with other semen characteristics. Holmgren WJ, et al. **J In Vitro Fert Embryo Transf** 1989 Aug; 6(4):207-12

Conditioned medium from activated splenocytes increases substance P in sympathetic ganglia. Jonakait GM, et al. **J Neurosci Res** 1990 May;26(1):24-30

Survival of purified embryonic chick retinal ganglion cells in the presence of neurotrophic factors. Lehwalder D, et al. **J Neurosci Res** 1989 Oct;24(2):329-37

Survival of microfilariae released in vitro by the filarial worm, Dipetalonema viteae. Maki J, et al. **Kitasato Arch Exp Med** 1989 Dec;62(4):203-5

Growth responses of cell cultures in a galactose medium. Baugh CL, et al. **Life Sci** 1974 Dec 1;15(11):1955-60

Culture media for mouse oocyte maturation affect subsequent embryonic development. van de Sandt JJ, et al. **Mol Reprod Dev** 1990 Feb;25(2):164-71

Influence of S9 mix on the expression of mutants in the L-arabinose resistance test of Salmonella typhimurium. Roldán-Arjona T, et al. **Mutat Res** 1990 Apr;243(4):303-8

Glial uptake of excitatory amino acids influences neuronal survival in cultures of mouse hippocampus. Sugiyama K, et al. **Neuroscience** 1989;32(3):779-91

Some observations on the growth requirements of multipotent stem cells under defined culture conditions. Monette FC, et al. **Prog Clin Biol Res** 1990;352:37-48 (39 ref.)

Growth of some mycobacterial strains in 7H12 Middlebrook liquid medium in the presence of auramine. Botis S, et al. **Rev Ig [Pneumoftiziol]** 1989 Apr-Jun;38(2):137-41

[Effect of culture media on the production of cholera enterotoxin] Guechi Z. **Arch Inst Pasteur Alger** 1986; 55:25-31 (Eng. Abstr.) **(Fre)**

[Effect of the components of the medium on Aspergillus fumigatus growth and its formation of gliotoxin] Kurbatskaia ZA, et al. **Mikrobiol Zh** 1986 May-Jun; 48(3):51-4 **(Rus)**

STANDARDS

[Evaluation of agar media for growth of Campylobacter pylori] Narikawa S, et al. **Rinsho Byori** 1990 Jan; 38(1):104-6 (Eng. Abstr.) **(Jpn)**

[The use of medium 199 in the bacteriological diagnosis of diphtheria] Baturina AV, et al. **Lab Delo** 1990;(1):69-70 **(Rus)**

CULTURED CELLS see **CELLS, CULTURED**

CULTURED TUMOR CELLS see **TUMOR CELLS, CULTURED**

CUMULATIVE SURVIVAL RATE see **SURVIVAL RATE**

CUPRIZONE see under **CYCLOHEXANES**

CURARE

[Pocket nerve stimulators: are they suitable for monitoring curarization?] Meistelman C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R134 **(Fre)**

ADMINISTRATION & DOSAGE

[Anesthesiologic aspects of narco-curare-electroshock treatment] Hansen CL, et al. **Ugeskr Laeger** 1990 Apr 16; 152(16):1145-9 (30 ref.) (Eng. Abstr.) **(Dan)**

HISTORY

Pioneering curare in anesthesia [letter; comment] Goerig M. **Anesthesiology** 1990 Jul;73(1):189-90 Comment on: Anesthesiology 1989 Sep;71(3):480-1.

METABOLISM

Curare binding and the curare-induced subconductance state of the acetylcholine receptor channel. Strecker GJ, et al. **Biophys J** 1989 Oct;56(4):795-806

PHARMACOLOGY

Acetylcholinesterase in chick embryo latissimus dorsii muscles: effects of curarization and electrical stimulation. Khaskiye A, et al. **Differentiation** 1989 Aug;41(2):110-5

CURARE-LIKE AGENTS

High-performance liquid chromatographic analysis of doxacurium, a new long-acting neuromuscular blocker. DeAngelis R, et al. **J Chromatogr** 1990 Feb 23; 525(2):389-400

[Differences in patient sensitivity to currently used non-depolarized curaremimetics and factors which affect it] Strnad J, et al. **Cas Lek Cesk** 1989 Aug 4;128(32):1002-5 (Eng. Abstr.) **(Cze)**

[The non-depolarizing myorelaxants in orotracheal intubation. A clinical comparison] Ravagnan R, et al. **Minerva Anestesiol** 1989 Nov;55(11):467-71 (Eng. Abstr.) **(Ita)**

ADMINISTRATION & DOSAGE

Mivacurium infusion requirements in pediatric surgical patients during nitrous oxide-halothane and during nitrous oxide-narcotic anesthesia. Brandom BW, et al. **Anesth Analg** 1990 Jul;71(1):16-22

Continuous infusion of mivacurium in children. Alifimoff JK, et al. **Br J Anaesth** 1989 Nov;63(5):520-4

The priming principle: early development [letter] Jones RM. **Br J Anaesth** 1990 Feb;64(2):256

ADVERSE EFFECTS

Anaphylaxis to muscle relaxants: predictive tests [letter] Moneret-Vautrin DA, et al. **Anaesthesia** 1990 Mar; 45(3):246-7

Induction of anaesthesia in the infant [editorial; comment] Rhine EJ, et al. **Can J Anaesth** 1990 Jul;37(5):496-7 Comment on: Can J Anaesth 1990 Jul;37(5):580-3. **(Eng, Fre)**

Negative pressure pulmonary oedema: a potential hazard of muscle relaxants in awake infants [see comments] Warner LO, et al. **Can J Anaesth** 1990 Jul;37(5):580-3 Comment in: Can J Anaesth 1990 Jul;37(5):496-7.

Prolonged myasthenic syndrome after one week of muscle relaxants. Benzing G 3d, et al. **Pediatr Neurol** 1990 May-Jun;6(3):190-6

[Prospective preoperative survey of 300 patients using prick tests with muscle relaxants] Maria Y, et al. **Ann Fr Anesth Reanim** 1989;8(4):301-5 (Eng. Abstr.) **(Fre)**

[Drug-induced allergies] Dry J, et al. **Ann Med Interne (Paris)** 1989;140(7):579-81 **(Fre)**

PHARMACOKINETICS

Comparative potency of pipecuronium bromide and pancuronium bromide. Stanley JC, et al. **Br J Anaesth** 1989 Dec;63(6):754-5

PHARMACOLOGY

Inhibition of histamine N-methyltransferase (HNMT) in vitro by neuromuscular relaxants. Futo J, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):415-20

Comparison of the neuromuscular block induced by mivacurium, suxamethonium or atracurium during nitrous oxide-fentanyl anaesthesia. Caldwell JE, et al. **Br J Anaesth** 1989 Oct;63(4):393-9

Neuromuscular block with doxacurium (BW A938U) in patients with normal or absent renal function. Cashman JN, et al. **Br J Anaesth** 1990 Feb;64(2):186-92

Neuromuscular and cardiovascular effects of mivacurium chloride (BW B1090U) during nitrous oxide-fentanyl-thiopentone and nitrous oxide-halothane anaesthesia. From RP, et al. **Br J Anaesth** 1990 Feb; 64(2):193-8

Effects of doxacurium chloride on biventricular cardiac function in patients with cardiac disease. Reich DL, et al. **Br J Anaesth** 1989 Dec;63(6):675-81

Neuromuscular and cardiovascular effects of mivacurium chloride in surgical patients receiving nitrous oxide-narcotic or nitrous oxide-isoflurane anaesthesia. Choi WW, et al. **Can J Anaesth** 1989 Nov;36(6):641-50

[Methods of determining clinically sufficient decurarization and its evaluation] Strnad J, et al. **Cas Lek Cesk** 1990 Jun 22;129(25):792-5 (Eng. Abstr.) **(Cze)**

[Current data on curarization] Duvaldestin P. **Therapie** 1990 May-Jun;45(3):263-5 (Eng. Abstr.) **(Fre)**

[Study of xanthine oxidase activity in the brain tissue after administration of dalargin during myoplegia] Korotkina RN, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):145-6 (Eng. Abstr.) **(Rus)**

[Pharmacology of various aminosteroidal muscle relaxants] Boumén U, et al. **Farmakol Toksikol** 1989 May-Jun; 52(3):29-33 (Eng. Abstr.) **(Rus)**

TOXICITY

Doxacurium and mivacurium do not trigger malignant hyperthermia in susceptible swine. Sufit RL, et al. **Anesth Analg** 1990 Sep;71(3):285-7

CURARIFORM DRUGS see **CURARE-LIKE AGENTS**

CURCUMIN see under **CATECHOLS**

CURETTAGE

Diagnostic and therapeutic curettage in gestational trophoblastic disease. Schlaerth JB, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1465-70; discussion 1470-1

Significance of positive endocervical curettage in predicting endocervical canal involvement in patients with cervical intraepithelial neoplasia. Husseinzadeh N, et al. **Gynecol Oncol** 1989 Dec;35(3):358-61

Is bone graft necessary? Analysis of twenty cases of giant cell tumour of bone treated by curettage without graft. Waldram MA, et al. **Int Orthop** 1990;14(2):129-33

Assessment of endocervical curettage in colposcopy. Linasmita V, et al. **J Med Assoc Thai** 1990 Feb;73 Suppl 1:28-32

Necessity for endocervical curettage in elderly women undergoing colposcopy. Dinh TA, et al. **J Reprod Med** 1989 Sep;34(9):621-4

Microcolposcopy vs. cone histology in evaluation of the endocervix in women with inadequate colposcopy or positive endocervical curettage. Hunter V, et al. **J Reprod Med** 1989 Sep;34(9):625-8

METHODS

Antegrade curettement, bone grafting and pinning of osteochondritis dissecans in the skeletally mature knee. Anderson AF, et al. **Am J Sports Med** 1990 May-Jun;

18(3):254–61
Office hysteroscopy and curettage—a safe diagnostic procedure. Itzkowic DJ, et al.
Aust N Z J Obstet Gynaecol 1990 May;30(2):150–3
Using a curette to collect ciliated nasal epithelium for evaluation in patients with suspected primary ciliary dyskinesia [letter] Green CG. **Pediatr Pulmonol** 1990; 9(2):131

CURIOSITY see EXPLORATORY BEHAVIOR

CURIUM

ANALYSIS

Accumulation of Am–241 and Cm–244 from water and sediments by Hyalella sp. and Tubifex spp. Sibley TH, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):165–72

PHARMACOKINETICS

A biokinetic model of inhaled Cm compounds in dogs: application to human exposure data. Guilmette RA, et al. **Health Phys** 1989;57 Suppl 1:187–97; discussion 197–8

TOXICITY

Inhalation carcinogenesis of repeated exposures to high–fired 244CmO2 in rats. Sanders CL, et al. **Health Phys** 1990 May;58(5):631–8

CURLING'S ULCER see under DUODENAL ULCER

CURRICULUM

Priorities for nutrition content within a medical school curriculum: a national consensus of medical educators. American Society for Clinical Nutrition Committee on Medical/Dental School and Residency Nutrition Education. **Acad Med** 1990 Aug;65(8):538–40
Teaching medical ethics in its contexts: Penn State College of Medicine. Barnard D, et al. **Acad Med** 1989 Dec; 64(12):744–6
Improvement of oncology education at the University of Washington School of Medicine, 1984–1988. Bleyer WA, et al. **Acad Med** 1990 Feb;65(2):114–9
Developing and maintaining a sound undergraduate clerkship curriculum. DaRosa DA, et al. **Acad Med** 1990 Sep; 65(9):556–7
Independent study in medical science. Dohner CW, et al. **Acad Med** 1989 Nov;64(11):653–4
Charting the winds of change: evaluating innovative medical curricula. Friedman CP, et al. **Acad Med** 1990 Jan; 65(1):8–14
The measurement of outcomes in the assessment of educational program effectiveness. Kassebaum DG. **Acad Med** 1990 May;65(5):293–6
Development of the medical humanities program at East Carolina University. Kopelman LM. **Acad Med** 1989 Dec; 64(12):730–4
The problem–based curriculum at Bowman Gray School of Medicine. Philp JR, et al. **Acad Med** 1990 Jun;65(6):363–4
Geriatrics in residency programs. Reuben DB, et al. **Acad Med** 1990 Jun;65(6):382–7
A first–year problem–based curriculum in health promotion and disease prevention. Taylor WC, et al. **Acad Med** 1989 Nov;64(11):673–7
The clinical medical humanities program at Loyola University of Chicago. Thomasma DC, et al. **Acad Med** 1989 Dec;64(12):735–9
The development of a medical ethics curriculum in a General Internal Medicine Residency Program. Wartman SA, et al. **Acad Med** 1989 Dec;64(12):751–4
A model curriculum for teaching adolescent psychiatry. Flaherty LT. **Adolesc Psychiatry** 1989;16:491–520
The medical profession has achieved a major change in its smoking behaviour; how might undergraduate medical education achieve a similar change in doctors' drinking habits? Talbot K. **Alcohol Alcohol** 1989;24(4):339–45
Recommended core educational guidelines on rheumatology for family practice residents. **Am Fam Physician** 1990 Aug; 42(2):495–7
Priorities for nutrition content in a medical school curriculum: a national consensus of medical educators. Weinsier RL, et al. **Am J Clin Nutr** 1989 Oct;50(4):707–12
Pathology in the new pathway of medical education at Harvard Medical School. Colvin RB, et al.
Am J Clin Pathol 1989 Oct;92(4 Suppl 1):S23–30
National survey of infection control practitioners' educational needs. Turner JG, et al. **Am J Infect Control** 1990 Apr; 18(2):86–92
RNs urge AIDS curriculum [news] **Am J Nurs** 1990 Mar; 90(3):28
A part–time Level II fieldwork program. Adelstein LA, et al. **Am J Occup Ther** 1990 Jan;44(1):60–5
The Curriculum Directors: influencing occupational therapy education, 1948–1964. Colman W. **Am J Occup Ther** 1990 Apr;44(4):357–62
The Level I fieldwork process. Shalik LD.
Am J Occup Ther 1990 Aug;44(8):700–7
A mini–workshop to train medical students to use a patient–centered approach to smoking cessation. Allen SS, et al. **Am J Prev Med** 1990 Jan–Feb;6(1):28–33
Curriculum guidelines for AIDS education of primary care practitioners: outcome of an authority opinion survey. Noble JT, et al. **Am J Prev Med** 1990 Jan–Feb;6(1):42–50
Inventory of knowledge and skills relating to disease prevention and health promotion. Wallace RB, et al.
Am J Prev Med 1990 Jan–Feb;6(1):51–6
Psychotherapy training for the psychiatrist of the future. Mohl PC, et al. **Am J Psychiatry** 1990 Jan;147(1):7–13
Ethics emergent [editorial; comment] Derse AR.
Ann Emerg Med 1990 Feb;19(2):210–2 Comment on: Ann Emerg Med 1990 Feb;19(2):187–92.
Residency training: the missing curriculum [editorial] Frumkin K. **Ann Emerg Med** 1990 Jan;19(1):95–6
An ethics curriculum for teaching emergency medicine residents [see comments] Moskop JC, et al.
Ann Emerg Med 1990 Feb;19(2):187–92 Comment in: Ann Emerg Med 1990 Feb;19(2):210–2.
We cannot afford to ignore economics in nursing curricula. Greenfield JM. **AORN J** 1990 May;51(5):1384–6
Project Alpha. Designing courses that recruit and retain OR nurses. Takahashi JJ, et al. **AORN J** 1990 Feb;51(2):497–9, 501, 504–5, passim
Perioperative nursing. Designing, implementing a baccalaureate elective. Tolley RG, et al. **AORN J** 1990 Jul;52(1):105–12
Community health and departments of preventive medicine. Bakst HJ. **Arch Environ Health** 1967 Jul;15(1):102–6
Training and career activity. The experience of the Yale Advanced Track Program. Sledge WH, et al.
Arch Gen Psychiatry 1990 Jan;47(1):82–8
The changing paradigm of neurologic practice and care. Implications for the undergraduate curriculum. Menken M. **Arch Neurol** 1990 Mar;47(3):334–6
The core curriculum and the future of pathology. Another opinion [editorial] Zaino RJ. **Arch Pathol Lab Med** 1990 Jun;114(6):563–4
Integration of basic biological sciences and clinical dentistry in the dental curriculum. A clinically orientated approach to teaching oral and dental anatomy. Gotjamanos T.
Aust Dent J 1990 Jun;35(3):290–3
Survey of dental practice/dental education in Victoria. Part II. Recent graduates/graduating students. Ralph WJ, et al.
Aust Dent J 1990 Feb;35(1):69–75
The MRCPsych examination. Holden NL.
Br J Hosp Med 1989 Nov;42(5):415–6
Surgery in the undergraduate curriculum—a statement by the Association of Professors of Surgery. Taylor I, et al.
Br J Surg 1990 Jul;77(7):822–3
End–user searching in a medical school curriculum: an evaluated modular approach. Bradigan PS, et al.
Bull Med Libr Assoc 1989 Oct;77(4):348–56
A multidisciplinary approach to information and critical appraisal instruction. Dorsch JL, et al.
Bull Med Libr Assoc 1990 Jan;78(1):38–44
Drug information skills for pharmacy students: curriculum integration. Wood EH, et al. **Bull Med Libr Assoc** 1990 Jan;78(1):8–14
Second Conference on Nutrition Teaching in Medical Schools. **Bull N Y Acad Med** 1989 Nov;65(9):910–1003
The nutrition program for medical students at New York Medical College. Cooperman JM. **Bull N Y Acad Med** 1989 Nov;65(9):950–1; discussion 962–3
Experiences in presenting nutrition in basic science courses. Karp R. **Bull N Y Acad Med** 1989 Nov;65(9):921–3; discussion 937–8
Experiences in presenting nutrition in basic science courses—SUNY/Health Science Center at Brooklyn. Kesner L. **Bull N Y Acad Med** 1989 Nov;65(9):924–7; discussion 937–8
The view from the dean's office. Kuperman A.
Bull N Y Acad Med 1989 Nov;65(9):964–6; discussion 971–4
Experiences with required and elective didactic courses—Mount Sinai School of Medicine. LeLeiko N.
Bull N Y Acad Med 1989 Nov;65(9):939–40; discussion 962–3
Experiences with required and elective didactic courses—Cornell University Medical College. Levine B.
Bull N Y Acad Med 1989 Nov;65(9):941–5; discussion 962–3
Regional nutrition center activities. Lowell B.
Bull N Y Acad Med 1989 Nov;65(9):918–20
Experiences with required and elective didactic courses—UMDNJ/New Jersey Medical School. Munves E. **Bull N Y Acad Med** 1989 Nov;65(9):959–61; discussion 962–3
Experiences with required and elective didactic courses—SUNY/Health Science Center at Stony Brook. Olson RE. **Bull N Y Acad Med** 1989 Nov;65(9):955–8; discussion 962–3
Experiences with required and elective didactic courses—New York College of Osteopathic Medicine. Plotnick S. **Bull N Y Acad Med** 1989 Nov;65(9):946–7; discussion 962–3
Objectives of an elective in clinical nutrition. Shike M.
Bull N Y Acad Med 1989 Nov;65(9):995–7
Regional nutrition center activities. Shils ME.
Bull N Y Acad Med 1989 Nov;65(9):915–7
Experiences with required and elective didactic courses—UMDNJ/New Jersey School of Osteopathic Medicine. Stein TP. **Bull N Y Acad Med** 1989 Nov; 65(9):948–9; discussion 962–3
Experiences in presenting nutrition in basic science courses—UMDNJ/Robert Wood Johnson School of Medicine. Stevenson N. **Bull N Y Acad Med** 1989 Nov; 65(9):935–6; discussion 937–8
Experiences with required and elective didactic courses—Albert Einstein College of Medicine.
Wylie–Rosett J. **Bull N Y Acad Med** 1989 Nov;65(9):952–4; discussion 962–3
An international survey of the educational activities of schools of pharmacy on psychoactive drugs. Falkowski J, et al. **Bull World Health Organ** 1989;67(5):561–4
Sex education and the prevention of STD/AIDS and pregnancy among youths. Herold ES, et al.
Can J Public Health 1990 Mar–Apr;81(2):141–5
A core curriculum for a postbasic course in cancer nursing. The European Oncology Nursing Society. **Cancer Nurs** 1990 Apr;13(2):123–8
Authoring systems. Finding the right tool for your courseware development project. Christensen MN, et al.
Comput Nurs 1990 Mar–Apr;8(2):73–9
Talking of change. Massey RU. **Conn Med** 1990 May; 54(5):291
Messages in bottles. Massey RU. **Conn Med** 1989 Dec; 53(12):751
Survey of diabetes curriculum in schools of nursing [letter] Haire–Joshu D, et al. **Diabetes Care** 1990 Jul;13(7):812–3
Computer–assisted curriculum for medical students on early diagnosis of substance abuse. Brown RL, et al.
Fam Med 1990 Jul–Aug;22(4):288–92
A family practice residency curriculum in critical appraisal of the medical literature. Konen JC, et al. **Fam Med** 1990 Jul–Aug;22(4):284–7
Nebraska premedical family practice course elective [letter] Paulman PM, et al. **Fam Med** 1990 May–Jun;22(3):240
Gynecologic core conference in a family practice residency [letter] Solomon P, et al. **Fam Med** 1990 May–Jun; 22(3):239–40
Attitudes to the training of general medical practitioners in Nigeria. Garrett T, et al. **Fam Pract** 1990 Mar;7(1):14–9
An ambulatory geriatric evaluation unit in a family geriatric curriculum. Berg–Weger M, et al.
Gerontol Geriatr Educ 1989;9(4):73–81
Public policy and aging in the gerontology curriculum: suggestions for a model course. Coberly S.
Gerontol Geriatr Educ 1989;9(4):37–45
Assessment of gerontology certificate program quality: a follow–up study of graduates. Euster GL.
Gerontol Geriatr Educ 1989;9(4):59–72
Current curriculum changes in dental education in Europe. Anneroth G. **Int Dent J** 1989 Sep;39(3):205–9
Politics, education and curriculum. Likimani S.
Int Dent J 1990 Jun;40(3):176–8
A social anthropology model to evaluate curricula of dental schools. Lopez Cámara V. **Int Dent J** 1990 Aug;40(4):242–8
Grandparents and learning. Strom R, et al.
Int J Aging Hum Dev 1989;29(3):163–9
Nursing education strides in Finland. Leino–Kilpi H, et al.
Int Nurs Rev 1990 Mar–Apr;37(2):244–6
The undergraduate medical curriculum. Bourke GJ.
Ir Med J 1989 Dec;82(4):143–5
Communication skills training in undergraduate medicine. Doherty E, et al. **Ir Med J** 1990 Jun;83(2):54–6
A conceptual approach to the identification of essential ethics content for the undergraduate nursing curriculum. Quinn CA. **J Adv Nurs** 1990 Jun;15(6):726–31
What medical graduates need to know but don't learn in medical school. Relman AS. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:49S–53S
Continuing education course listing for January to June 1990. Council on Dental Education. **J Am Dent Assoc** 1989 Dec; 119(6):763–80
Continuing education course listing for June to December 1990. Council on Dental Education. **J Am Dent Assoc** 1990 Jun;120(6):695–8, 700–2, 704–15
Directions in veterinary education [letter; comment] Middleton CC. **J Am Vet Med Assoc** 1990 Apr 1; 196(7):1007–8 Comment on: J Am Vet Med Assoc 1989 Oct 15;195(8):1059–61, 1069.
The health sciences communicator as faculty developer. Battles JB, et al. **J Biocommun** 1989;16(3):2–8
Surgical oncology education in US and Canadian medical schools. Bernard LJ, et al. **J Cancer Educ** 1988;3(4):239–42
Design, implementation, and evaluation of a longitudinal cancer curriculum. Costanza ME, et al. **J Cancer Educ** 1987;2(4):217–23
Formulation of teaching/learning objectives useful for the development and assessment of lessons, courses, and programs. Gallagher RE, et al. **J Cancer Educ** 1989; 4(4):231–4
Nutrition education curriculum at the University of Nevada School of Medicine. St. Jeor ST, et al. **J Cancer Educ** 1989; 4(4):235–40
A curriculum in palliative care for internal medicine housestaff: a pilot project. Von Roenn JH, et al.
J Cancer Educ 1988;3(4):259–63
Evaluation of an oncology curriculum. Weidner J, et al.
J Cancer Educ 1990;5(1):37–41
Toward the identification of CME content needs for primary care physicians. Williams T, et al. **J Cancer Educ** 1989; 4(4):255–9
Clinical pharmacology and therapeutics in primary care: an elective for fourth–year medical students. Ellison MJ, et al. **J Clin Pharmacol** 1990 Jun;30(6):489–93
Curriculum guidelines for training general practice residents to treat the person with a handicap. **J Dent Educ** 1990

May;54(5):293–6
Curriculum guidelines for physical evaluation. J Dent Educ 1990 Jun;54(6):339–41
Curriculum guidelines for pharmacology. J Dent Educ 1990 May;54(5):297–303
Curriculum guidelines for preclinical dental assisting. J Dent Educ 1990 Sep;54(9):579–81
Curriculum guidelines on forensic dentistry. J Dent Educ 1990 Jun;54(6):334–6
Curriculum guidelines for management of medical emergencies in dental education. J Dent Educ 1990 Jun; 54(6):337–8
Task force on innovation in dental hygiene curricula. Bader J, et al. J Dent Educ 1989 Dec;53(12):731–7
Marketing curricula in U.S. dental schools. Cunningham MA, et al. J Dent Educ 1990 May;54(5):286–7
Nutrition in the dental curriculum: Seattle model. Faine MP. J Dent Educ 1990 Aug;54(8):510–2
Microcomputer elective for senior dental students. Feldman CA. J Dent Educ 1990 Sep;54(9):570–5
Teaching a comprehensive orofacial pain course in the dental curriculum. Gonty AA. J Dent Educ 1990 Jun;54(6):319–22
Initiating change under the Pew National Dental Education Program at the University of California, San Francisco. Greene JC, et al. J Dent Educ 1990 Feb;54(2):104–8
Bulimia and anorexia nervosa in dental and dental hygiene curricula. Gross KB, et al. J Dent Educ 1990 Mar; 54(3):210–2
The changing role of prevention in dental education. Lange BM, et al. J Dent Educ 1990 Sep;54(9):567–9
Where is quality assurance going in dental school curricula? Loupe MJ. J Dent Educ 1990 Apr;54(4):233–6
Dental hygiene curriculum model for transition to future roles. Paarmann CS, et al. J Dent Educ 1990 Mar; 54(3):199–204
Instruction in child abuse and neglect in the predoctoral curriculum. Posnick WR, et al. J Dent Educ 1990 Feb; 54(2):158–9
A view from the field: substantial curriculum reform. Reed MJ. J Dent Educ 1990 Sep;54(9):560–3
Responding to educational challenges with problem-based learning and information technology. Tedesco LA. J Dent Educ 1990 Sep;54(9):544–7
Augmenting the critical care data base of junior medical students with an emergency medicine lecture curriculum: a controlled study. Binder L, et al. J Emerg Med 1990 Mar–Apr;8(2):211–4
Obstetric training [letter; comment] Wilke AJ. J Fam Pract 1990 Apr;30(4):393 Comment on: J Fam Pract 1990 Jan;30(1):81–5.
Curriculum for ambulatory care training in medical residency: rationale, attitudes, and generic proficiencies. Barker LR. J Gen Intern Med 1990 Jan–Feb;5(1 Suppl):S3–14
Teaching residents to read the medical literature: a controlled trial of a curriculum in critical appraisal/clinical epidemiology. Kitchens JM, et al. J Gen Intern Med 1989 Sep–Oct;4(5):384–7
Nutrition education of chiropractic students: a survey of colleges recognized by the Council on Chiropractic Education. Jamison JR. J Manipulative Physiol Ther 1990 Jul–Aug;13(6):316–21
Pathways to information literacy. Fox LM, et al. J Nurs Educ 1989 Nov;28(9):422–5
The development of a master's degree program based on perceived future practice needs. Hill BA. J Nurs Educ 1989 Sep;28(7):307–13
How are we preparing nurse leaders? A study of baccalaureate curricula. Manfredi CM, et al. J Nurs Educ 1990 Jan;29(1):4–9
Grantsmanship as a core component of nursing doctoral education. Novak JC. J Nurs Educ 1989 Sep;28(7):328–30
Student evaluation of the school program. Ziv L, et al. J Nurs Educ 1990 Feb;29(2):60–5
Implementation of the mastery learning/modular curriculum in nurse-midwifery education. Decker B. J Nurse Midwifery 1990 Jan–Feb;35(1):3–9 (28 ref.)
Teaching pathology in a problem-oriented curriculum: the Maastricht experience. Bosman FT, et al. J Pathol 1989 Oct;159(2):175–8
The relationship between selected educational outcomes of senior RN-to-BSN students and their choice of advanced placement options available in the Maryland nursing articulation model. Rapson MF, et al. J Prof Nurs 1990 Mar–Apr;6(2):113–20
American Association of Public Health Dentistry: recommendations for teaching about the prescription of dietary fluoride supplements. J Public Health Dent 1989 Fall;49(4):237–41
Compulsory audit projects for medical students [letter] [see comments] Neville RG, et al. J R Coll Gen Pract 1989 Oct;39(327):430 Comment in: J R Coll Gen Pract 1989 Dec;39(329):520.
Otolaryngology in the curriculum—10 years on: discussion paper. Lund VJ. J R Soc Med 1990 Jun;83(6):377–9
The role of affect and social relationships in health behavior and school health curriculum and instruction. Elias MJ. J Sch Health 1990 Apr;60(4):157–63
Self-esteem and health instruction: challenges for curriculum development. Hayes DM, et al. J Sch Health 1990 May; 60(5):208–11
The impact of a preschool health curriculum on children's health knowledge. Hendricks CM, et al. J Sch Health 1989 Nov;59(9):389–92
The comprehensive school health curriculum: closing the gap between state-of-the-art and state-of-the-practice. Seffrin JR. J Sch Health 1990 Apr;60(4):151–6
Vascular surgery residency training curriculum. Porter JM. J Vasc Surg 1990 Jul;12(1):79–83
Should we change the medical school curriculum? McPherson JR. Mayo Clin Proc 1989 Oct;64(10):1311–4
Altering residency curriculum in response to a changing practice environment: use of the Mayo internal medicine residency alumni survey. Nelson RL, et al. Mayo Clin Proc 1990 Jun;65(6):809–17
Undergraduate medical education in obstetrics and gynaecology in the USA and Canada, 1985. Beckmann CR, et al. Med Educ 1990 May;24(3):224–9
Elaborated learning in undergraduate medical education. Coles CR. Med Educ 1990 Jan;24(1):14–22
The current place of learning objectives in paediatrics [editorial] Foulds DM, et al. Med Educ 1989 Sep; 23(5):407–8
Health promotion in the medical curriculum. Gillies PA, et al. Med Educ 1989 Sep;23(5):440–6
A suitable case for Technik: behavioural science in the postgraduate medical curriculum. Kelly MP. Med Educ 1990 May;24(3):271–9
Setting educational priorities for learning the concepts of population health. MacDonald PJ, et al. Med Educ 1989 Sep;23(5):429–39
Family and community health in a new medical school. Musgrove JP. Med Educ 1990 Mar;24(2):124–8
Residency performance of graduates from a problem-based and a conventional curriculum. Santos-Gomez L, et al. Med Educ 1990 Jul;24(4):366–75
Designing a continuing medical education programme in Malaysia based on practitioners' needs. Shahabudin SH. Med Educ 1990 May;24(3):264–70
Nutrition in medical education. Proceedings of a seminar. September 15–16, 1988, Port Stephens. Med J Aust 1989 Sep 18;151 Suppl:S2–22
San Diego Workshop on Nutrition in Medical Education. The Third International Symposium on Clinical Nutrition. San Diego, April 27–29, 1987. Proceedings. Med J Aust 1989 Sep 18;151 Suppl:S23–36
Objectives for nutrition in the medical curriculum. Med J Aust 1989 Sep 18;151 Suppl:S3–8
Methods and models for introducing nutrition into the medical curriculum. Med J Aust 1989 Sep 18;151 Suppl:S9–13
The New Zealand Report of the cervical cancer inquiry: significance for medical education. Jones DG. Med J Aust 1989 Oct 16;151(8):450, 452, 454, 456
The case for teaching nursing ethics. Kasachkoff T. Med Law 1989;8(6):593–9
As it happens: conversations overheard in the medical school. Med Teach 1989;11(2):237–9
Nursing students in transition—from hospital to college and back again. Bochner D. Med Teach 1989;11(2):187–94
Do you know? An opportunity to assess how up-to-date you are with the medical education literature. Harden RM. Med Teach 1989;11(2):233–6
Responding to perceived needs of the twenty-first century: a case study in curriculum design. Heestand DE, et al. Med Teach 1989;11(2):157–67
Self-assessment in problem-based groups. Rezler AG. Med Teach 1989;11(2):151–6
The integration of computer conferencing into the medical school curriculum. Ten Haken JD, et al. Med Teach 1989; 11(2):213–20
Informatics in dental education: a horizon of opportunity. Abbey LM. Methods Inf Med 1989 Nov;28(4):255–60
Nursing informatics competencies. Grobe SJ. Methods Inf Med 1989 Nov;28(4):267–9
Description of a blockcourse in medical informatics. Hasman A. Methods Inf Med 1989 Nov;28(4):239–42
Teaching medical informatics to medical students in the Federal Republic of Germany. Michaelis J. Methods Inf Med 1989 Nov;28(4):234–8
Integration of medical informatics with other courses in the medical curriculum. Tuinstra CL. Methods Inf Med 1989 Nov;28(4):243–5
Education in medical informatics in The Netherlands: a nationwide policy and the Erasmus curriculum. van Bemmel JH, et al. Methods Inf Med 1989 Nov;28(4):227–33
Medical education system in Czechoslovakia: achievements and perspectives of medical informatics education. Zvárová J, et al. Methods Inf Med 1989 Nov;28(4):246–9
The Department of Military Medicine—a graduate medical education idea whose time has come [editorial] [see comments] Pierce JR, et al. Milit Med 1989 Oct; 154(10):536–7 Comment in: Milit Med 1990 Apr;155(4):A17.
A New York initiative in medical education. Verby JE, et al. N Y State J Med 1989 Nov;89(11):618–20
The nursing shortage: dynamics and solutions. The three R's: recruitment, restructuring the environment, and reformulating the curriculum. Regan PF. Nurs Clin North Am 1990 Sep;25(3):517–24
Physiology course content in graduate education. Karch AM, et al. Nurs Outlook 1990 Jul–Aug;38(4):178–9, 183
Physical assessment skills in undergraduate curricula. Solomon J. Nurs Outlook 1990 Jul–Aug;38(4):194–5
Clinical nurse specialist and nurse practitioner core curricula survey results. Forbes KE, et al. Nurse Pract 1990 Apr; 15(4):43, 46–8
CNS, NP Core Curricula Study: survey tool questioned, defended [letter] Kobert SN. Nurse Pract 1990 Jul;15(7):7–8
The spiral curriculum in optometric education. Super S. Optom Vis Sci 1989 Oct;66(10):705–9
Physical therapist curricula for the 1990s: educating the reflective practitioner. Shepard KF, et al. Phys Ther 1990 Sep;70(9):566–73; discussion 573–7
Aspects of practice management. Palmer K. Practitioner 1989 Feb 8;233(1462):153–5
The television, school, and family project. V. The impact of curriculum delivery format on program acceptance. Brannon BR, et al. Prev Med 1989 Jul;18(4):492–502
Evolving quality management through curriculum offerings [editorial] Genovich-Richards J. QRB 1989 Dec; 15(12):366–8
Integrating values education into an allied health curriculum; Part II. McKenna A, et al. Radiol Technol 1989 Sep–Oct; 61(1):41–6
Recommended literature and theoretic and practical courses and examinations for basic gastroenterology. Bonfils S, et al. Scand J Gastroenterol Suppl 1989;161:21–5
Recommended literature and advanced courses for subspeciality education and training. Piper DW, et al. Scand J Gastroenterol Suppl 1989;161:26–8; discussion 28–9
California backs evolution education [news] Barinaga M. Science 1989 Nov 17;246(4932):880
Why teach basic sciences in medical school? [editorial] Sapira JD. South Med J 1990 Sep;83(9):994–5
Business and managerial education in the medical school curriculum. Wholey MH, et al. South Med J 1990 Feb; 83(2):204–6
A statement concerning neurosurgery in the undergraduate medical curriculum. Stern WE. Surg Neurol 1990 Jan; 33(1):5–6
On medical education. Roddie IC. Trans Med Soc Lond 1987–88;104:89–94
Medical ignorance, AIDS-Kaposi's sarcoma complex, and the lymphatic system [see comments] Witte MH, et al. West J Med 1990 Jul;153(1):17–23 Comment in: West J Med 1990 Jul;153(1):76–7.
Mental public health in the continuing education of psychiatrists [letter] Naveillan P. World Health Forum 1989; 10(3–4):435–6
[Should medical research form an integral part of the undergraduate medical curriculum?] Lochner JD. S Afr Med J 1990 Mar 17;77(6):276–9 (Afr)
[Comparison of the diagnostic performance of students of the old and new medical curriculum at the Laval University (published erratum appears in Union Med Can 1989 Nov–Dec;118(6):253)] Bordage G, et al. Union Med Can 1989 Sep–Oct;118(5):187–8, 191–2, 194–5 (Eng. Abstr.) (Fre)
[Pediatrics in transition? Questions of the educational program in pediatrics and of our pediatricians (editorial)] Dittmer A. Kinderarztl Prax 1990 Apr;58(4):175–8 (Ger)
[Sports medicine at Swiss universities: Freiburg] Geiser J, et al. Schweiz Z Sportmed 1990 Apr;38(1):37–8 (Ger)
[On the article: Laaser U, Wolter P. Graduate studies in the health sciences at the Bielefeld University in the framework of comparable endeavors. Soz. Praeventivmed 1989; 34:223–226. Reply to Irmgard Nippert's Letter to the editor (letter)] Laaser U, et al. Soz Praventivmed 1990;35(3):138 (Ger)
[Medical statistics: from teaching demand to training needs] di Orio F, et al. Epidemiol Prev 1989 Jun;11(39):18–21 (8 ref.) (Ita)
[Evaluation of reading and writing abilities and adaptation to school situations during the primary education period of children with early neonatal pathology] Losiowski Z, et al. Neurol Neurochir Pol 1989 Jan;23(1):21–6 (Eng. Abstr.) (Pol)
[Comparison of psychophysical stress in students in the first and second grades at secondary schools] Polus-Szeniawska E. Rocz Panstw Zakl Hig 1989;40(3):246–50 (Eng. Abstr.) (Pol)
[Changes in psychophysical loads of junior high school students as a result of the educational reform] Polus-Szeniawska E. Rocz Panstw Zakl Hig 1989; 40(2):164–8 (Eng. Abstr.) (Pol)
[Changes in the symptoms of fatigue among junior high school students as a result of the reforms of the educational programs] Zdunkiewicz L. Rocz Panstw Zakl Hig 1989; 40(2):160–3 (Eng. Abstr.) (Pol)
[Medical education. I] Ruzyłło E. Wiad Lek 1989 Oct 1–Nov 1;42(19–21):1073–9 (Pol)
[Brazil: the curriculum and medical practice] Nardi AE. Educ Med Salud 1989 Oct–Dec;23(4):354–62 (Por)
[The teaching of leprosy in medical schools] Opromolla DV. Hansenol Int 1988 Dec;13(2):27–33 (Eng. Abstr.) (Por)
[Evaluation of functional status of younger schoolchildren in the 5-day school week program] Cherniakina TS, et al. Gig Sanit 1990 May;(5):63–5 (Rus)
[Socio-hygienic evaluation of time expenditure of Soviet and foreign students] Gorlova OE. Gig Sanit 1990 May; (5):69–71 (Rus)
[Evaluation of annual changes in health status and physical development of first-grade schoolchildren in various educational systems] Shpakov AI, et al. Gig Sanit 1989 Aug;(8):18–20 (Rus)

[Health status of adolescents–students of technical schools in relation to the intensity of studies] Vatchenko LG, et al. **Gig Sanit** 1990 May;(5):46–50 **(Rus)**

[Perestroika in the teaching of dentistry at medical and health and hygiene departments in accord with the new academic plan] Bazhanov NN, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):85–6 **(Rus)**

[Mexico: comparative evaluation of 2 projects in medical education. Follow-up of graduates] Antonio Moreno J, et al. **Educ Med Salud** 1989 Oct–Dec;23(4):363–75 **(Spa)**

[Argentina: curricular transformation] Galli A. **Educ Med Salud** 1989 Oct–Dec;23(4):344–53 **(Spa)**

[A teaching model for pediatrics specialization] Shor Pinsker E, et al. **Educ Med Salud** 1989 Oct–Dec;23(4):402–6 **(Spa)**

[Teaching system of labor care, during the 9th and 10th cycles of university studies in surgery. Report on 1000 studies] Villalobos Román M, et al. **Ginecol Obstet Mex** 1976 May;39(235):383–403 (Eng. Abstr.) **(Spa)**

[Relevancy of the clinical subjects in medical training] de Juan J, et al. **Rev Clin Esp** 1989 Sep;185(4):202–7 (Eng. Abstr.) **(Spa)**

[Criteria to determine academic levels in public health] Palencia M, et al. **Salud Publica Mex** 1989 Nov–Dec; 31(6):793–9 (Eng. Abstr.) **(Spa)**

STANDARDS

Perspectives on pathology education. Burke MD. **Am J Clin Pathol** 1989 Oct;92(4 Suppl 1):S9–10

CUSHING'S SYNDROME

Cushing's syndrome and pregnancy. Aron DC, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):244–52 (92 ref.)

BLOOD

Serum testosterone levels in women with Cushing's disease. Halpin DM, et al. **Acta Endocrinol (Copenh)** 1990 Jan; 122(1):71–5

Decreased dehydroepiandrosterone sulfate in pigmented nodular adrenal dysplasia. Braithwaite SS, et al. **Clin Chem** 1989 Nov;35(11):2216–9

Plasma ACTH responses to cortisol infusion are similar in patients with primary hypoadrenalism and patients studied some years after bilateral adrenalectomy for Cushing's syndrome. Atkinson AB, et al. **Clin Endocrinol (Oxf)** 1989 May;30(5):581–6

Bilateral inferior petrosal sinus sampling as a routine procedure in ACTH-dependent Cushing's syndrome. McCance DR, et al. **Clin Endocrinol (Oxf)** 1989 Feb; 30(2):157–66

The effect of cyproheptadine and/or bromocriptine on plasma ACTH levels in patients cured of Cushing's disease by bilateral adrenalectomy. Whitehead HM, et al. **Clin Endocrinol (Oxf)** 1990 Feb;32(2):193–201

Estimation of creatinine clearance in patients with Cushing's syndrome. Hatton J, et al. **DICP** 1989 Dec;23(12):974–7

The relationship between cortisol and ACTH in patients with Cushing's disease following neurosurgery or pharmacotherapy. Kasperlik-Załuska A, et al. **Endokrynol Pol** 1989;40(2):63–7

Paradoxical response of plasma beta-endorphin to combined administration of TRH and GnRH in adrenal disorders. Knappe G, et al. **Exp Clin Endocrinol** 1989 Sep; 94(1–2):157–62

Decreased melatonin concentration in Cushing's syndrome. Soszyński P, et al. **Horm Metab Res** 1989 Dec;21(12):673–4

Atrial natriuretic peptide in Cushing's disease. Opocher G, et al. **J Endocrinol Invest** 1990 Feb;13(2):133–7

Cushing's syndrome with intermittent ectopic ACTH production. van Coevorden A, et al. **J Endocrinol Invest** 1990 Apr;13(4):317–26

Gel chromatographic characterization of immunoreactive adrenocorticotropin in patients with ACTH hypersecretion. Reincke M, et al. **Klin Wochenschr** 1989 Nov 3;67(21):1096–100

Arginine vasopressin in Cushing's disease. Wittert GA, et al. **Lancet** 1990 Apr 28;335(8696):991–4

[Recurrence of Cushing's syndrome in pregnancy (letter)] Levesque H, et al. **Presse Med** 1990 Apr 21;19(16):763–4 **(Fre)**

[A lack of increase in corticosteroids in the plasma after insulin hypoglycemia in Cushing syndrome] Bethge H, et al. **Acta Endocrinol (Copenh)** 1966 Feb;51(2):166–74 (Eng. Abstr.) **(Ger)**

[Changes in the secretion of the hormones of the hypothalamo-hypophyseo-adrenal system in Itsenko–Cushing disease under the influence of insulin-induced hypoglycemia and thyroliberin] Slavnov VN, et al. **Vrach Delo** 1990 Mar;(3):72–5 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

The Cushing syndrome induced by medroxyprogesterone acetate. Siminoski K, et al. **Ann Intern Med** 1989 Nov 1; 111(9):758–60

Cushing's syndrome induced by medroxyprogesterone. Merrin PK, et al. **BMJ** 1990 Aug 11;301(6747):345

Cushing syndrome and medroxyprogesterone acetate [letter] Donckier JE, et al. **Lancet** 1990 May 5;335(8697):1094

Cushing's syndrome and medroxyprogesterone acetate [letter] Grenfell A, et al. **Lancet** 1990 Jul 28;336(8709):256

Cushing's syndrome from epidural methylprednisolone. Tuel SM, et al. **Pain** 1990 Jan;40(1):81–4

[Iatrogenic Cushing syndrome in infants. Report of a case with dwarfism] Petrus M, et al. **Ann Pediatr (Paris)** 1990 Jan;37(1):48–50 (Eng. Abstr.) **(Fre)**

[Effect of a magic drug in asthma therapy] Pregler M, et al. **Wien Med Wochenschr Suppl** 1987;103:9–11 **(Ger)**

COMPLICATIONS

Mixed-sclerosing-bone-dystrophy (osteopathia striata and osteopetrosis) and Cushing's syndrome. Proto G, et al. **Bone** 1990;11(3):199–203

Comparison of long term results between prolactin secreting adenomas and ACTH secreting adenomas. Post KD, et al. **Can J Neurol Sci** 1990 Feb;17(1):74–7

An unusual case of Nelson's syndrome. Kasperlik-Załuska AA, et al. **Endokrynol Pol** 1989;40(3):143–8

Persistent Cushing's disease in a patient with invasive pituitary adenoma. Dash RJ, et al. **J Assoc Physicians India** 1990 Jun;38(6):428–30

Corticotropin-releasing hormone- and adrenocorticotropin-producing pituitary carcinoma with metastases to the liver and lung in a patient with Cushing's disease. Nawata H, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):1068–73

Do weak mineralocorticoids affect the pathogenesis of hypertension in Cushing's disease? Hermus A, et al. **J Hypertens Suppl** 1989 Dec;7(6):S208–9

A case of isolated thyrotropin deficiency with Cushing's syndrome. Hara Y, et al. **Jpn J Med** 1989 Nov–Dec; 28(6):727–30

A case of Cushing's disease and multiple myeloma. Kinugawa T, et al. **Jpn J Med** 1989 Sep–Oct;28(5):616–20

Cortisol and its metabolites in the plasma and urine in Cushing's syndrome with chronic renal failure (CRF), compared to Cushing's syndrome without CRF. Otokida K, et al. **Nippon Jinzo Gakkai Shi** 1989 Jun;31(6):651–6

Cushing's syndrome in pregnancy. Pickard J, et al. **Obstet Gynecol Surv** 1990 Feb;45(2):87–93 (67 ref.)

[Association of cutaneous myxoma, recurrent cardiac myxoma and Cushing's syndrome (Carney's complex). Description of a case and review of the literature] Champagnac D, et al. **Arch Mal Coeur** 1990 Jan;83(1):121–4 (Eng. Abstr.) **(Fre)**

[Rational diagnosis of endocrine forms of hypertension] Mengden T, et al. **Bildgebung** 1987–89;56(4):132–40 (66 ref.) (Eng. Abstr.) **(Ger)**

[Adrenocortical carcinoma with Cushing syndrome: report of a case] Kunimi K, et al. **Hinyokika Kiyo** 1989 Jun; 35(6):1015–9 (Eng. Abstr.) **(Jpn)**

[Hypertension due to endocrinologic disorders] Saruta T. **Nippon Naika Gakkai Zasshi** 1990 Mar 10;79(3):313–6 **(Jpn)**

[Cerebral disorders in Cushing's syndrome] Kotov SV, et al. **Sov Med** 1990;(1):57–60 **(Rus)**

[Cushing's syndrome and empty sella turcica (letter)] Webb SM, et al. **Med Clin (Barc)** 1989 Oct 28;93(13):517–8 **(Spa)**

DIAGNOSIS

The Cushing syndrome: an update on diagnostic tests. Kaye TB, et al. **Ann Intern Med** 1990 Mar 15;112(6):434–44 (78 ref.)

The overnight dexamethasone test is a worthwhile screening procedure. Cronin C, et al. **Clin Endocrinol (Oxf)** 1990 Jul; 33(1):27–33

A young woman with pituitary-tumor, Cushing's syndrome and medullary thyroid carcinoma—a rare case of MEN II? Kotzerke J, et al. **Horm Metab Res Suppl** 1989;21:43–5

Endocrine activity of the "silent" adrenocortical adenoma is uncovered by response to corticotropin-releasing hormone. Hensen J, et al. **Klin Wochenschr** 1990 Jun 19; 68(12):608–14

Cushing's syndrome. How to pinpoint and treat the underlying cause. Felicetta JV. **Postgrad Med** 1989 Dec; 86(8):79–85, 89–90

Overnight dexamethasone suppression test: normal responses and the diagnosis of Cushing's syndrome. Blethen SL, et al. **Steroids** 1989 Aug;54(2):185–93

Cushing's syndrome: analysis of 188 cases. Liou TC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Sep;88(9):886–93

[Value of the corticoliberine test in the etiologic diagnosis of Cushing's syndrome] Tabarin A, et al. **Presse Med** 1990 Mar 31;19(12):557–61 (Eng. Abstr.) **(Fre)**

[Use of catheterization of the inferior petrosal sinus in the diagnosis of Cushing's disease] Rampazzo A, et al. **Medicina (Firenze)** 1989 Apr–Jun;9(2):198–200 (Eng. Abstr.) **(Ita)**

[Comparison of MR and CT in a radiological study of Cushing's syndrome. A report on 16 cases] Avataneo T, et al. **Minerva Med** 1990 Jan–Feb;81(1–2):1–4 (Eng. Abstr.) **(Ita)**

[Clinical significance of urinary 6 beta-hydroxycortisol analysis in endocrine tests of the adrenal cortex] Yakata M. **Nippon Rinsho** 1989 Dec;48 Suppl:1206–10 **(Jpn)**

[Investigation of Cushing's syndrome. The diagnostic value of the dexamethasone suppression test, the metopirone test and the CRF test] Johannesen O, et al. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2678–82 (Eng. Abstr.) **(Nor)**

[Multiple adenoma of the adrenal cortex with the clinical picture of Cushing's syndrome] Kasperlik-Załuska AA, et al. **Pol Arch Med Wewn** 1989 Oct–Dec;82(4–6):184–9 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Ketoconazole treatment of Cushing's syndrome in pregnancy [letter] Divers MJ. **Am J Obstet Gynecol** 1990 Sep; 163(3):1101

Treatment of Cushing's syndrome with the long-acting somatostatin analogue SMS 201–995 (sandostatin). Invitti C, et al. **Clin Endocrinol (Oxf)** 1990 Mar;32(3):275–81

Circulating cortisol & related steroids following ketoconazole challenge in Cushing's disease. Dash RJ, et al. **Indian J Med Res** 1990 Jun;92:167–8

Successful treatment with ketoconazole of Cushing's syndrome in pregnancy. Amado JA, et al. **Postgrad Med J** 1990 Mar;66(773):221–3

Failure of somatostatin analogue SMS 201–995 to control Cushing's syndrome due to ectopic release of ACTH from a bronchial carcinoid. Burrell L, et al. **Scott Med J** 1989 Oct;34(5):533–4

[Short term effects of ketoconazole in Cushing's syndrome] Cerdas S, et al. **Ann Endocrinol (Paris)** 1989;50(6):489–96 (36 ref.) (Eng. Abstr.) **(Fre)**

[Value of ketoconazole in the treatment of Cushing's syndrome. Apropos of a case of adrenal polyadematosis (letter)] Fève B, et al. **Ann Med Interne (Paris)** 1989; 140(6):540–1 **(Fre)**

[Long-term treatment of Cushing's disease using ketoconazole. Possibility of therapeutic escape] Diop SN, et al. **Presse Med** 1989 Sep 2–9;18(27):1325–8 (Eng. Abstr.) **(Fre)**

[The effect of thyroliberin on the blood level of gonadotropins and sex steroids in women suffering from Itsenko–Cushing disease] Manusharova RA, et al. **Vrach Delo** 1990 Jan;(1):37–9 (Eng. Abstr.) **(Rus)**

[Evaluation of the treatment of Cushing's syndrome using ketoconazole] Conget JI, et al. **Med Clin (Barc)** 1989 Nov 4;93(14):531–4 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Salt resistant lipase activity in human adrenal gland is increased in Cushing's disease. Berg AL, et al. **J Intern Med** 1990 Sep;228(3):257–60

[Activity of angiotensin converting enzyme (ACE) in cushing's disease] Zdrojewicz Z. **Pol Tyg Lek** 1989 Feb 13–20;44(7–8):185–7 (Eng. Abstr.) **(Pol)**

ETIOLOGY

Sub-clinical Cushing's syndrome in patients with adrenal gland incidentalomas. Pitfalls in diagnosis and management. McLeod MK, et al. **Am Surg** 1990 Jul;56(7):398–403

Continuous dexamethasone infusion for seven hours in patients with the Cushing syndrome. A superior differential diagnostic test. Biemond P, et al. **Ann Intern Med** 1990 May 15;112(10):738–42

Familial Cushing's syndrome due to nodular adrenocortical dysplasia is an inherited disease of immunological origin. Teding van Berkhout F, et al. **Clin Endocrinol (Oxf)** 1989 Aug;31(2):185–91

Adrenal cortical adenoma causing Cushing's syndrome: correct localization by functional scintigraphy despite nonlocalizing morphological imaging studies. Geatti O, et al. **Clin Nucl Med** 1990 Mar;15(3):168–71

Cushing's syndrome due to huge nodular adrenocortical hyperplasia with fluctuation of urinary 17-OHCS excretion. Makino S, et al. **Endocrinol Jpn** 1989 Oct; 36(5):655–63

Autoimmune involvement in Cushing syndrome due to primary adrenocortical nodular dysplasia. Carstensen H, et al. **Eur J Pediatr** 1989 Nov;149(2):84–7

The case of the perplexed pastor [see comments] Chang WL, et al. **Hosp Pract [Off]** 1989 Dec 15;24(12):65–6, 69, 72 Comment in: Hosp Pract [Off] 1990 Feb 28;25(2A):14.

The Cushing syndromes: an enlarging clinical spectrum [editorial; comment] Findling JW. **N Engl J Med** 1989 Dec 14;321(24):1677–8 Comment on: N Engl J Med 1989 Dec 14;321(24):1659–64.

Familial Cushing's syndrome due to primary pigmented nodular adrenocortical disease. Reinvestigation 50 years later [see comments] Young WF Jr, et al. **N Engl J Med** 1989 Dec 14;321(24):1659–64 Comment in: N Engl J Med 1989 Dec 14;321(24):1677–8. Comment in: N Engl J Med 1990 May 17;322(20):1469–70.

Heterogeneity in Cushing's disease. Croughs RJ, et al. **Neth J Med** 1990 Apr;36(3–4):217–20 (29 ref.)

Cushing's syndrome during pregnancy. Mulder WJ, et al. **Neth J Med** 1990 Jun;36(5–6):234–41 (58 ref.)

Unusual cause for recurrent Cushing syndrome and its diagnosis by computed tomography and NP-59 radiocholesterol scanning. Harris RD, et al. **Urology** 1990 Sep;36(3):277–9

[Cushing's syndrome in CRF-producing mediastinal carcinoid] Gerl H, et al. **Dtsch Med Wochenschr** 1990 Mar 2;115(9):332–6 (Eng. Abstr.) **(Ger)**

[A case report of Cushing syndrome due to three distinct adenomas of the right adrenal] Kaneko H, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Jun;81(6):909–12 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Cushing syndrome due to ectopic ACTH secretion] Mendonça BB, et al. **Rev Paul Med** 1989 Jan–Feb; 107(1):29–36 (Eng. Abstr.) **(Por)**

[Characteristics of the secretory behavior of cortisol–producing adenoma–corticosteroma] Bozadzhieva E, et al. **Vestn Khir** 1990 Jan;144(1):57–60 **(Rus)**

GENETICS

Pro–opiomelanocortin gene expression in silent corticotroph–cell adenoma and Cushing's disease. Nagaya T, et al. **J Neurosurg** 1990 Feb;72(2):262–7

Familial Cushing's syndrome ("Carney complex") [letter; comment] **N Engl J Med** 1990 May 17;322(20):1469–70 Comment on: N Engl J Med 1989 Dec 14;321(24):1659–64.

METABOLISM

Increased renal phosphate excretion in Cushing's syndrome. Camanni F, et al. **Acta Endocrinol (Copenh)** 1967 Sep; 56(1):85–92

Steroid excretion and plasma cortisol in 41 cases of Cushing's syndrome. With data on corticotrophin and metapyron tests. Ernest I. **Acta Endocrinol (Copenh)** 1966 Apr; 51(4):511–25

A patient with hypocortisolism and Cushing's syndrome–like manifestations: cortisol hyperreactive syndrome. Iida S, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):729–37

Characterization of adrenal autonomy in Cushing's syndrome: a comparison between in vivo and in vitro responsiveness of the adrenal gland. Lamberts SW, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):192–9

Infusion of low dose etomidate: correction of hypercortisolemia in patients with Cushing's syndrome and dose–response relationship in normal subjects. Schulte HM, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1426–30

Effect of metyrapone pretreatment on adrenocorticotropin secretion induced by corticotropin–releasing hormone in normal subjects and patients with Cushing's disease. Totani Y, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):798–803

ACTH independent Cushing's disease [letter] Lindholm J, et al. **J Endocrinol Invest** 1990 May;13(5):433–4

Dual and selective actions of glucocorticoids upon basal and stimulated growth hormone release in man. Burguera B, et al. **Neuroendocrinology** 1990 Jan;51(1):51–8

[Metabolism of calcium and phosphorus in Cushing syndrome with osteoporosis] Meng XW, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):548–52, 573 (Eng. Abstr.) **(Chi)**

PATHOLOGY

Primary pigmented nodular adrenocortical disease. A light and electron microscopic study of eight cases. Travis WD, et al. **Am J Surg Pathol** 1989 Nov;13(11):921–30 (36 ref.)

Nodular adrenal hyperplasia—a caveat [letter; comment] Levin ME. **Hosp Pract [Off]** 1990 Feb 28;25(2A):14 Comment on: Hosp Pract [Off] 1989 Dec 15;24(12):65–6, 69, 72.

Primary pigmented micronodular disease of the adrenals. Limone P, et al. **J Endocrinol Invest** 1990 Feb;13(2):171–5

[Computed tomography of adrenal Cushing's adenoma—CT–pathological correlation] Yamada T. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Feb 25; 50(2):130–8 (Eng. Abstr.) **(Jpn)**

[Cushing's syndrome in unilateral diffuse–nodular hyperplasia of the adrenal cortex with a corticosteroma and in combination with a pheochromocytoma] Bronshtein ME, et al. **Probl Endokrinol (Mosk)** 1989 Jul–Aug;35(4):46–50 **(Rus)**

PHYSIOPATHOLOGY

Spontaneous resolution of Cushing's syndrome after pregnancy. Aron DC, et al. **Am J Obstet Gynecol** 1990 Feb;162(2):472–4

Cushing's syndrome with dual pituitary–adrenal control. Choi Y, et al. **Arch Intern Med** 1970 Jun;125(6):1045–9

Cardiovascular, renal and endocrine effects of alpha–human atrial natriuretic peptide in patients with Cushing's syndrome and primary aldosteronism. Fujio N, et al. **J Hypertens** 1989 Aug;7(8):653–9

[Circadian rhythm of the pituitary–adrenal system in health and disease] Komarov FI, et al. **Klin Med (Mosk)** 1989 Oct;67(10):14–23 (61 ref.) **(Rus)**

[The function of the hypothalamo–hypophyseal–adrenal system in Itsenko–Cushing syndrome] Luchitskiĭ EV, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):38–42 (Eng. Abstr.) **(Rus)**

[Current aspects of Cushing syndrome] Schüller A, et al. **Riv Eur Sci Med Farmacol** 1988 Aug;10(4):279–89 (64 ref.) (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

[A tumor of the kidney cortex accompanying an incomplete fracture of the ribs in Cushing's syndrome] Kubota T. **Rinsho Hoshasen** 1990 Apr;35(4):495–6 **(Jpn)**

RADIONUCLIDE IMAGING

Diagnostic accuracy and pitfalls of [iodine–131]6–beta–iodomethyl–19–norcholesterol (NP–59) imaging. Kazerooni EA, et al. **J Nucl Med** 1990 Apr; 31(4):526–34

[Nuclear medicine diagnostic localization in primary aldosteronism and Cushing syndrome] Sialer G, et al. **Bildgebung** 1987–89;56(4):157–62 (64 ref.) (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Megavoltage pituitary irradiation in the management of Cushing's disease and Nelson's syndrome: long–term follow–up. Howlett TA, et al. **Clin Endocrinol (Oxf)** 1989 Sep;31(3):309–23

[Pituitary radiotherapy of Cushing's disease (an analysis of 22 cases and literatures review)] Cui SX. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Aug;23(4):221–4 (Eng. Abstr.) **(Chi)**

[The efficacy of proton irradiation of the hypophysis in children with Itsenko–Cushing disease] Zhukovskiĭ MA, et al. **Med Radiol (Mosk)** 1990 Jan;35(1):17–22 (Eng. Abstr.) **(Rus)**

[Radiotherapy in the treatment of children with Itsenko–Cushing's disease] Zhukovskiĭ MA, et al. **Pediatriia** 1989;(11):42–8 (Eng. Abstr.) **(Rus)**

[Adenohypophysis function in Itsenko–Cushing disease before and after proton–beam irradiation] Bel'chenko LV, et al. **Zh Vopr Neirokhir** 1989 Sep–Oct;(5):31–2 **(Rus)**

SURGERY

Autotransplantation of hyperplastic human adrenal tissue. Drucker WD, et al. **Arch Intern Med** 1967 Aug; 120(2):185–92

Cushing's syndrome in pregnancy. Cook DJ, et al. **Can Med Assoc J** 1989 Nov 15;141(10):1059–61

Predictive factors for initial cure and relapse rate after pituitary surgery for Cushing's disease. Pieters GF, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1122–6

The growth hormone response to growth hormone releasing hormone in patients previously treated with bilateral adrenalectomy alone for Cushing's disease. Whitehead HM, et al. **J Endocrinol Invest** 1990 Mar;13(3):217–20

Repeat transsphenoidal surgery for Cushing's disease. Friedman RB, et al. **J Neurosurg** 1989 Oct;71(4):520–7

Cushing's disease: results of transsphenoidal microsurgery with emphasis on surgical failures. Tindall GT, et al. **J Neurosurg** 1990 Mar;72(3):363–9

Re: Adrenal autotransplantation with attached blood vessels for treatment of Cushing's disease [letter; comment] Glenn JF. **J Urol** 1990 Jan;143(1):135 Comment on: J Urol 1989 Jan;141(1):6–8.

Exacerbation of autoimmune thyroid dysfunction after unilateral adrenalectomy in patients with Cushing's syndrome due to an adrenocortical adenoma [see comments] Takasu N, et al. **N Engl J Med** 1990 Jun 14; 322(24):1708–12 Comment in: N Engl J Med 1990 Jun 14;322(24):1739–41.

Fatal pulmonary thromboembolism after successful transsphenoidal hypophysectomy for Cushing's disease. Jackson JA, et al. **South Med J** 1990 Aug;83(8):960–2

[Long–term result in 22 cases of adrenal autotransplantation with arterio–venous anastomosis] Miao YZ. **Chung Hua Wai Ko Tsa Chih** 1989 Oct;27(10):614–6, 639 (Eng. Abstr.) **(Chi)**

[Is it possible to predict the development of Nelson's syndrome in Cushing's disease after bilateral adrenalectomy?] Horký K, et al. **Cas Lek Cesk** 1990 May 25;129(21):645–9 (Eng. Abstr.) **(Cze)**

[Surgery of the adrenal glands in Cushing's syndrome] Fotiadis C, et al. **J Chir (Paris)** 1989 Oct;126(10):527–9 (Eng. Abstr.) **(Fre)**

THERAPY

Use of adrenal arterial embolization in severe ACTH–dependent Cushing's syndrome. Blunt SB, et al. **Postgrad Med J** 1989 Aug;65(766):575–9

[A case of the successful treatment of the trophic skin changes in Itsenko–Cushing disease] Bukhman AI, et al. **Probl Endokrinol (Mosk)** 1990 Mar–Apr;36(2):51–2 **(Rus)**

CUSPID

Variability of tooth eruption in cattle. Bartosiewicz L. **Acta Vet Hung** 1989;37(4):303–17

Management of the unerupted maxillary canine. Ferguson JW. **Br Dent J** 1990 Jul 7;169(1):11–7 (39 ref.)

Failed eruption of the permanent canine following open reduction of a mandibular fracture in a child. Nixon F, et al. **Br Dent J** 1990 Mar 10;168(5):204–5

Resorption of premolar roots by ectopic canines. Postlethwaite KM. **Br Dent J** 1989 Dec 9–23;167(11):397–8

Extreme distal migration of a maxillary canine. Shanmuhasuntharam P, et al. **Br Dent J** 1990 Jan 20; 168(2):73–4 (11 ref.)

In vitro testing of elastomeric modules. Chung PC, et al. **Br J Orthod** 1989 Nov;16(4):265–9

The effect of age at diagnosis on the complexity and outcome of treatment of palatally ectopic canines. Galloway I, et al. **Br J Orthod** 1989 Nov;16(4):259–63

Multiple idiopathic external root resorption. Postlethwaite KR, et al. **Oral Surg Oral Med Oral Pathol** 1989 Nov; 68(5):640–3

[The transposed canine: classification and therapeutic approach] Attia Y. **Orthod Fr** 1986;57 Pt 2:615–27 (Eng. Abstr.) **(Fre)**

[The transposed canine: etiology–pathogenesis] Favot P, et al. **Orthod Fr** 1986;57 Pt 2:605–13 (0 ref.) **(Fre)**

[Dental caries in the support area and the therapeutic problem of the positioning of the canines and premolars in the dental arches] Legović M. **Fortschr Kieferorthop** 1989 Dec; 50(6):577–83 (Eng. Abstr.) **(Ger)**

[The color fastness of composite fillings for the anterior teeth] Plaček M. **Schweiz Monatsschr Zahnmed** 1990;100(4):420–4 (Eng. Abstr.) **(Ger)**

ABNORMALITIES

Case report BC. Early identification and correction of transposed teeth. Yaillen DM. **Angle Orthod** 1990 Spring; 60(1):73–7

Structural and radiographic evaluation of four cases of tooth fusion. O'Reilly PM. **Aust Dent J** 1990 Jun;35(3):226–9

Familial trends in palatal canines, anomalous lateral incisors, and related phenomena. Zilberman Y, et al. **Eur J Orthod** 1990 May;12(2):135–9

[Isolated canine aplasia in monozygotic twins] Ulrich K. **Fortschr Kieferorthop** 1989 Oct;50(5):415–22 (Eng. Abstr.) **(Ger)**

[Possibilities of correcting malpositioned upper cuspids] Budai M, et al. **Fogorv Sz** 1990 May;83(5):149–52 **(Hun)**

[Transposition of the cuspids] Szüle L. **Fogorv Sz** 1988 Apr; 81(4):125–6 (Eng. Abstr.) **(Hun)**

ANALYSIS

Mineral density and mineral loss after demineralization at various locations in human root dentine. A longitudinal microradiographic study. Zuidgeest TG, et al. **Caries Res** 1990;24(3):159–63

ANATOMY & HISTOLOGY

The morphology of canines in relation to preadjusted appliances. Germane N, et al. **Angle Orthod** 1990 Spring; 60(1):49–54

Canine tooth size variability in primates. Beauchamp G. **Folia Primatol (Basel)** 1989;52(3–4):148–55

Mandibular canine index—a clue for establishing sex identity. Rao NG, et al. **Forensic Sci Int** 1989 Aug;42(3):249–54

Emergence profiles in natural tooth contour. Part II: Clinical considerations. Croll BM. **J Prosthet Dent** 1990 Apr; 63(4):374–9

Number and location of occlusal contacts in intercuspal position. Korioth TW. **J Prosthet Dent** 1990 Aug; 64(2):206–10

INNERVATION

Receptor characteristics of periodontal mechanosensitive units supplying the cat's lower canine. Loescher AR, et al. **J Neurophysiol** 1989 Oct;62(4):971–8

Properties of reinnervated periodontal mechanoreceptors after inferior alveolar nerve injuries in cats. Loescher AR, et al. **J Neurophysiol** 1989 Oct;62(4):979–83

PATHOLOGY

Canine "honing" in Australopithecus afarensis. Greenfield LO. **Am J Phys Anthropol** 1990 Jun;82(2):135–43

[The maxillary canine: its diverse inclinations. Use of the straight wire] Manière D, et al. **Orthod Fr** 1986;57 Pt 2:769–81 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Canine retraction: a photoelastic study. Baeten LR. **Am J Orthod** 1975 Jan;67(1):11–23

The effect of vibration on the discharge of periodontal ligament mechanoreceptors to controlled loading of the cat canine tooth. Linden RW, et al. **Arch Oral Biol** 1989; 34(4):275–81

Measurement of pulp temperature increase to externally applied heat (argon laser, hot water, drilling). Renneboog–Squilbin C, et al. **J Biol Buccale** 1989 Sep; 17(3):179–86

Various methods in achieving anterior guidance. Ehrlich J, et al. **J Prosthet Dent** 1989 Nov;62(5):505–9

[Disorders of the sensitivity of the anterior teeth in children and adolescents] Billen U, et al. **Fortschr Kieferorthop** 1989 Oct;50(5):440–7 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Resorption of the lateral maxillary incisor: assessment by CT. Peene P, et al. **J Comput Assist Tomogr** 1990 May–Jun; 14(3):427–9

[Radiographic localization of the impacted cuspid in the upper maxilla] Malagola C, et al. **Minerva Stomatol** 1989 Aug;38(8):893–6 (Eng. Abstr.) **(Ita)**

TRANSPLANTATION

Transalveolar transplantation of maxillary canines. A follow–up study. Sange S, et al. **Eur J Orthod** 1990 May; 12(2):140–7

Autogenous transplantation of impacted maxillary canines. da Silveira JO, et al. **Oral Surg Oral Med Oral Pathol** 1989 Dec;68(6):697–700 (13 ref.)

ULTRASTRUCTURE

Maxillary canine microwear in Dryopithecus from Spain. Puech PF, et al. **Am J Phys Anthropol** 1989 Nov;

80(3):305–12

CUSTODIAL CARE

Health in the sandwich generation. Dellasega C. **Geriatr Nurs (New York)** 1989 Sep–Oct;10(5):242–3

STANDARDS

Quality of the residential environment in board-and-care homes for mentally and developmentally disabled persons. Wilson J, et al. **Hosp Community Psychiatry** 1990 Mar; 41(3):314–8

CUSTOMIZED DRUGS see DESIGNER DRUGS

CUTANEOUS ADMINISTRATION, DRUG see ADMINISTRATION, CUTANEOUS

CUTANEOUS DRUG ADMINISTRATION see ADMINISTRATION, CUTANEOUS

CUTANEOUS LARVA MIGRANS see LARVA MIGRANS

CUTANEOUS LEPROSY see LEPROSY, LEPROMATOUS

CUTANEOUS OXIMETRY see BLOOD GAS MONITORING, TRANSCUTANEOUS

CUTIS LAXA

COMPLICATIONS

Vascular abnormalities in congenital cutis laxa—report of two cases. Tsuji A, et al. **Acta Paediatr Jpn Overseas Ed** 1990 Apr;32(2):155–61

[Congenital myopathy associated with cutis laxa] Martín R, et al. **Arch Neurobiol (Madr)** 1989 Nov–Dec;52(6):273–6 (Eng. Abstr.) **(Spa)**

CONGENITAL

Congenital cutis laxa. Oku T, et al. **Dermatologica** 1989; 179(2):79–83

DIAGNOSIS

Picture of the month. Cutis laxa. Gellis SS, et al. **Am J Dis Child** 1967 Jul;114(1):91–2

ETIOLOGY

Michelin–tire baby syndrome resulting from diffuse smooth muscle hamartoma. Glover MT, et al. **Pediatr Dermatol** 1989 Dec;6(4):329–31 (10 ref.)

GENETICS

Ambiguous genitalia associated with skeletal abnormalities, cutis laxa, craniostenosis, psychomotor retardation, and facial abnormalities (SCARF syndrome). Koppe R, et al. **Am J Med Genet** 1989 Nov;34(3):305–12

PATHOLOGY

Craniofacial manifestations of Ehlers–Danlos syndromes, cutis laxa syndromes, and cutis laxa–like syndromes. Gorlin RJ, et al. **Birth Defects** 1989;25(4):39–71 (240 ref.)

Postinflammatory elastolysis and cutis laxa. A case report. Lewis PG, et al. **J Am Acad Dermatol** 1990 Jan;22(1):40–8

CYANAMIDE see under CYANIDES

CYANATES

Potentiometric measurements of hydrogen and cyanide ions in buffered media. Lebeda FJ, et al. **Anal Biochem** 1990 Jun;187(2):302–9

[Occupational toluene diisocyanate (TDI) asthma—inhalation challenge test and TDI–HSA (human serum albumin) skin test and detection of specific IgE] Duan YY. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Jun; 12(3):149–52, 191 (Eng. Abstr.) **(Chi)**

ADVERSE EFFECTS

Immunologic hemorrhagic pneumonia caused by isocyanates. Patterson R, et al. **Am Rev Respir Dis** 1990 Jan; 141(1):226–30

Hypersensitivity pneumonitis and toluene diisocyanate [letter; comment] Grammer L. **Ann Intern Med** 1989 Oct 15; 111(8):690–1 Comment on: Ann Intern Med 1989 Jan 1;110(1):31–4.

Epiglottic dysfunction after isocyanate inhalation exposure. Sales JH, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):725–7

You're the flight surgeon. Isocyanates are the most common cause of occupational asthma. Hrncir DE. **Aviat Space Environ Med** 1990 Aug;61(8):765–6

Delayed eye and other consequences from exposure to methyl isocyanate: 93% follow up of exposed and unexposed cohorts in Bhopal. Andersson N, et al. **Br J Ind Med** 1990 Aug;47(8):553–8

Persistent reactive airway dysfunction syndrome after exposure to toluene diisocyanate. Luo JC, et al. **Br J Ind Med** 1990 Apr;47(4):239–41

Persistence of toluene diisocyanate–induced asthma despite negligible workplace exposures. Banks DE, et al. **Chest** 1990 Jan;97(1):121–5

Bronchoalveolar lavage and morphology of the airways after cessation of exposure in asthmatic subjects sensitized to toluene diisocyanate. Paggiaro P, et al. **Chest** 1990 Sep; 98(3):536–42

Cytogenetic studies in human populations exposed to gas leak at Bhopal, India. Ghosh BB, et al. **Environ Health Perspect** 1990 Jun;86:323–6

Airway inflammation and late asthmatic reactions. Fabbri LM. **Eur Respir J** 1990 Mar;3(3):367–8

Leukotriene B4 and late asthmatic reactions induced by toluene diisocyanate. Zocca E, et al. **J Appl Physiol** 1990 Apr;68(4):1576–80

New aspects of isocyanate asthma. Baur X. **Lung** 1990;168 Suppl:606–13 (14 ref.)

Respiratory symptoms and pulmonary function of workers exposed to cork dust, toluene diisocyanate and conidia. Alegre J, et al. **Scand J Work Environ Health** 1990 Jun; 16(3):175–81

[Diagnosis of irritative-toxic isocyanate asthma with the isocyanate exposure test] Behr J, et al. **Pneumologie** 1990 Feb;44 Suppl 1:229–31 (Eng. Abstr.) **(Ger)**

[A case of hypersensitivity pneumonitis due to isocyanate (TDI)] Nozawa S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1335–41 (20 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Application of tryptamine as a derivatising agent for airborne isocyanate determination. Part 3. Evaluation of total isocyanates analysis by high-performance liquid chromatography with fluorescence and amperometric detection. Wu WS, et al. **Analyst** 1990 Jun;115(6):801–7

The health and safety executive interlaboratory quality control scheme for isocyanates. Bagon DA. **Ann Occup Hyg** 1990 Feb;34(1):77–83

Controlled dynamic generation of standard 1,6-hexamethylene diisocyanate aerosols. Huynh CK, et al. **Ann Occup Hyg** 1989;33(4):573–81

The use of isocyanate paints in auto refinishing—a survey of isocyanate exposures and related work practices in South Australia. Pisaniello DL, et al. **Ann Occup Hyg** 1989; 33(4):563–72

Test atmospheres of diisocyanates with special reference to controlled exposure of humans. Brorson T, et al. **Int Arch Occup Environ Health** 1989;61(8):495–501

ANTAGONISTS & INHIBITORS

Ibuprofen, a putative anti-cataract drug, protects the lens against cyanate and galactose. Roberts KA, et al. **Exp Eye Res** 1990 Feb;50(2):157–64

BLOOD

State analysis of endogenous cyanate ion in human plasma. Koshiishi I, et al. **J Pharmacobiodyn** 1990 Apr;13(4):254–8

DIAGNOSTIC USE

Neutrophil chemotactic activity in toluene diisocyanate (TDI)–induced asthma. Sastre J, et al. **J Allergy Clin Immunol** 1990 Mar;85(3):567–72

Effect of antiasthma drugs on asthmatic reactions induced by toluene diisocyanate in sensitized subjects. Fabbri LM. **Lung** 1990;168 Suppl:128–31

IMMUNOLOGY

Specific serum antibodies against isocyanates: association with occupational asthma. Cartier A, et al. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 1):507–14

The use of an immunoassay index for antibodies against isocyanate human protein conjugates and application to human isocyanate disease. Grammer LC, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):94–8

An in vitro method for predicting sensitizing properties of inhaled chemicals. Wass U, et al. **Scand J Work Environ Health** 1990 Jun;16(3):208–14

METABOLISM

S-(N-methylcarbamoyl)glutathione: a reactive S-linked metabolite of methyl isocyanate. Pearson PG, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):245–50

Site of carbamoylation of bovine gamma-II-crystallin by potassium [14C]cyanate. Martin S, et al. **Biochem J** 1989 Sep 15;262(3):909–15

The anaerobic metabolism of verapamil in rat cecal contents forms nor-verapamil and thiocyanate. Koch RL, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):612–5

PHARMACOLOGY

Dexamethasone isonicotinate inhibits dual and late asthmatic reactions but not the increase of airway responsiveness induced by toluene diisocyanate in sensitized subjects. Tossin L, et al. **Ann Allergy** 1989 Oct;63(4):292–6

Effect of methyl isocyanate (MIC) on rat erythrocytes. Agrawal D, et al. **Arch Toxicol** 1990;64(4):332–5

Combined effect of pH and sodium cyanate on the inhibition of tumor cell proliferation and metabolism by BCNU and hyperthermia. Hu JJ, et al. **Cancer Chemother Pharmacol** 1990;26(4):269–72

Evidence that toluene diisocyanate activates the efferent function of capsaicin-sensitive primary afferents. Mapp CE, et al. **Eur J Pharmacol** 1990 May 3;180(1):113–8

Eicosanoid release from human bronchial epithelial cells upon exposure to toluene diisocyanate in vitro. Mattoli S, et al. **J Cell Physiol** 1990 Feb;142(2):379–85

POISONING

Search for chromosomal variations among gas-exposed persons in Bhopal. Goswami HK, et al. **Hum Genet** 1990 Jan;84(2):172–6

Pregnancy outcome in women exposed to toxic gas at Bhopal. Bhandari NR, et al. **Indian J Med Res** 1990 Feb; 92:28–33

Dissociation between maternal and fetal toxicity of methyl isocyanate in mice and rats. Varma DR, et al. **J Toxicol Environ Health** 1990 May;30(1):1–14

Bhopal: deal is less than final [news] Jayaraman KS. **Nature** 1990 Aug 9;346(6284):503

THERAPEUTIC USE

Inhibition by dietary benzylselenocyanate of hepatocarcinogenesis induced by azoxymethane in Fischer 344 rats. Sugie S, et al. **Jpn J Cancer Res** 1989 Oct; 80(10):952–7

TOXICITY

Decreased lung function and exposure to diisocyanates (HDI and HDI-BT) in car repair painters: observations on re-examination 6 years after initial study. Tornling G, et al. **Am J Ind Med** 1990;17(3):299–310

Acute toxicity of methyl isocyanate in mammals. II. Induction of hyperglycemia, lactic acidosis, uraemia, and hypothermia in rats. Jeevaratnam K, et al. **Arch Environ Contam Toxicol** 1990 May–Jun;19(3):314–8

Development of a compliant surgical adhesive derived from novel fluorinated hexamethylene diisocyanate. Matsuda T, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):381–3

Genotoxicity studies on mice after short term inhalation exposure to methyl isocyanate. Kar RN, et al. **Cytobios** 1989;59(238–239):167–76

Contact hypersensitivity response to isophorone diisocyanate in mice. Stern ML, et al. **Drug Chem Toxicol** 1989 Sep–Dec; 12(3–4):287–96

Effect of subacute exposure to methyl isocyanate on testicular histomorphology in mice. Arora U, et al. **Indian J Exp Biol** 1989 Apr;27(4):347–9

Carcinogenicity and pulmonary pathology associated with a single 2-hour inhalation exposure of laboratory rodents to methyl isocyanate [letter] Bucher JR, et al. **J Natl Cancer Inst** 1989 Oct 18;81(20):1586–7

Role of the carbamoylation reaction in the biological activity of methyl nitrosourea. Serebryanyi AM, et al. **Mutat Res** 1990 Aug;231(2):195–203

Toluene diisocyanate–induced conformational changes of serum albumin: a study on repeated inhalations in guinea-pigs. Kochman S, et al. **Toxicol Lett** 1990 Feb; 50(2–3):165–71

CYANIDANOL-3 see CATECHIN

CYANIDES

Alkyl and aromatic isocyanide binding to haem complexes. Patel MJ, et al. **Biochem J** 1989 Sep 15;262(3):959–63

Cleavage of a model peptide at its glycine residue by alkaline mercuric oxycyanide. Krystek SR Jr, et al. **Int J Pept Protein Res** 1989 Jul;34(1):52–5

[A method of cleaning overalls contaminated with sodium cyanide] Beliakov AA, et al. **Gig Tr Prof Zabol** 1990; (3):47–9 (Eng. Abstr.) **(Rus)**

ANALYSIS

Thermal degradation of polyester coating powders: 1,4-dicyanobenzene as an occupational marker compound. Pukkila J, et al. **Analyst** 1989 Sep;114(9):1009–12

A rapid, sensitive, and specific screening technique for the determination of cyanide. Dunn WA, et al. **J Anal Toxicol** 1990 Jul–Aug;14(4):256

Free radical intermediates formed during the oxidation of cyanide by horseradish peroxidase/H2O2 as detected with nitroso spin traps. Stolze K, et al. **J Inorg Biochem** 1989 Sep;37(1):45–53

[Potentiometric concentration determination of cyanide ions in waste water] Börner J, et al. **Z Gesamte Hyg** 1990 Jun; 36(6):337–9 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

Mechanism of antagonizing cyanide–induced lethality by alpha–ketoglutaric acid. Norris JC, et al. **Toxicology** 1990 Jun;62(3):275–83

Effects of various known and potential cyanide antagonists and a glutathione depletor on acute toxicity of cyanide in mice. Hatch RC, et al. **Vet Hum Toxicol** 1990 Feb; 32(1):9–16

BLOOD

Cyanide release from sodium nitroprusside during coronary bypass in hypothermia. Lundquist P, et al.

Acta Anaesthesiol Scand 1989 Nov;33(8):686–8
Voltammetric determination of cyanide and thiocyanate in small biological samples. Westley AM, et al. Anal Biochem 1989 Aug 15;181(1):190–4
The effect of storage upon cyanide in blood samples. Bright JE, et al. Hum Exp Toxicol 1990 May;9(3):125–9
The sulfur-cyanolysis sites of serum albumin: metabolite competition studies. Jarabak R, et al. J Biochem Toxicol 1989 Winter;4(4):255–61
Mechanism and prevention of tachyphylaxis and cyanide toxicosis after nitroprusside-induced hypotension. Cottrell JE, et al. Surg Forum 1978;29:308–10
[Plasma and red blood cell cyanide concentrations during hypotension induced by sodium nitroprusside or by a nitroprusside-trimetaphan mixture in rabbits] Takeda S, et al. Masui 1990 Jun;39(6):701–7 (Eng. Abstr.) (Jpn)

DIAGNOSTIC USE

Measurement of membrane potential responses elicited from blood cells: effect of the dye/cell ratio and the presence of an intracellular calcium probe. Seligmann B, et al. Soc Gen Physiol Ser 1988;43:233–40

METABOLISM

The activation of gold complexes by cyanide produced by polymorphonuclear leukocytes—II. Evidence for the formation and biological activity of aurocyanide. Graham GG, et al. Biochem Pharmacol 1990 Jun 1;39(11):1697–702
Kinetics and mechanism of the reaction of cyanide with molybdenum nitrogenase from Azotobacter vinelandii. Lowe DJ, et al. Biochemistry 1989 Oct 17;28(21):8460–6
Kinetics of cyanide binding to Chromatium vinosum ferricytochrome c'. Motie M, et al. Biochemistry 1990 Feb 20;29(7):1932–6
Binding of thiocyanate and cyanide to manganese(III)-reconstituted horseradish peroxidase: a 15N nuclear magnetic resonance study. Modi S, et al. Biochim Biophys Acta 1990 Apr 19;1038(2):164–71
Competitive partial inhibitors of serum albumin-catalyzed sulfur cyanolysis. Jarabak R, et al. J Biochem Toxicol 1990 Spring;5(1):1–8
Infrared evidence of cyanide binding to iron and copper sites in bovine heart cytochrome c oxidase. Implications regarding oxygen reduction. Yoshikawa S, et al. J Biol Chem 1990 May 15;265(14):7945–58
Kinetics and equilibria of cyanide binding to prostaglandin H synthase. MacDonald ID, et al. J Inorg Biochem 1989 Sep;37(1):35–44
Metabolism of organonitriles to cyanide by rat nasal tissue enzymes. Dahl AR, et al. Xenobiotica 1989 Nov; 19(11):1201–5
Bioavailability of iron and cyanide from 59Fe- and 14C-labelled hexacyanoferrates(II) in rats. Nielsen P, et al. Z Naturforsch [C] 1990 Jun;45(6):681–90
[Production of cyanide in the rat liver from 3-aminopropionitrile] Fernandez GM, et al. J Toxicol Clin Exp 1990 Mar-Apr;10(2):67–71 (Eng. Abstr.) (Fre)

PHARMACOKINETICS

Bioavailability of iron and cyanide from oral potassium ferric hexacyanoferrate(II) in humans. Nielsen P, et al. Arch Toxicol 1990;64(5):420–2
Pharmacokinetics of cyanamide in dog and rat. Obach R, et al. J Pharm Pharmacol 1989 Sep;41(9):624–7

PHARMACOLOGY

Cyanide depression of sodium efflux in desheathed frog sciatic nerve. Schoepfle GM, et al. Am J Physiol 1967 Jun; 212(6):1273–6
Protection by glycine of proximal tubules from injury due to inhibitors of mitochondrial ATP production. Weinberg JM, et al. Am J Physiol 1990 Jun;258(6 Pt 1):C1127–40
Cytotoxic activity of aryl and heteroaroxylazoxy derivatives. Fruttero R, et al. Anticancer Res 1989 Jul-Aug;9(4):971–2
Cyanamide and its calcium form: do they differ with respect to their action on the liver cell? Experimental study in the rat. Valérdiz S, et al. Appl Pathol 1989;7(6):344–9
Cyanide resistant respiration is involved in temperature rise in ripening mangoes. Kumar S, et al. Biochem Biophys Res Commun 1990 Apr 30;168(2):818–22
The activation of gold complexes by cyanide produced by polymorphonuclear leukocytes—I. The effects of aurocyanide on the oxidative burst of polymorphonuclear leukocytes. Rudkowski R, et al. Biochem Pharmacol 1990 Jun 1;39(11):1687–95
The effect of pH on redox titrations of haem a in cyanide-liganded cytochrome-c oxidase: experimental and modelling studies. Moody AJ, et al. Biochim Biophys Acta 1990 Feb 2;1015(2):205–15
Metabolic inhibitors reversibly alter the basal membrane potential of the gecko retinal pigment epithelium. Griff ER. Exp Eye Res 1990 Jan;50(1):99–107
Essential role of ferrous iron in cyanide-resistant respiration in Hansenula anomala. Minagawa N, et al. FEBS Lett 1990 Jul 2;267(1):114–6
Effects of cadmium ions, D-600 and KCN on calcium-45 uptake in smooth muscle of guinea-pig taenia coli. Nasu T, et al. Gen Pharmacol 1990;21(3):349–53
Intermediary metabolic changes in rabbits administered linamarin or potassium cyanide. Padmaja G, et al. Indian J Exp Biol 1989 Jul;27(7):635–9
Lactating mouse mammary cell uptake of 59Fe-transferrin. The effect of KCN, 2,4-dinitrophenol, ethanol and ATP. Moutafchiev DA, et al. Int J Biochem 1990;22(3):311–3
A cyanide-aldehyde complex inhibits bacterial luciferase. Makemson JC. J Bacteriol 1990 Aug;172(8):4725–7
Voltage dependence of the Chara proton pump revealed by current-voltage measurement during rapid metabolic blockade with cyanide. Blatt MR, et al. J Membr Biol 1990 Apr;114(3):205–23
Electrophysiological responses of dissociated type I cells of the rabbit carotid body to cyanide. Biscoe TJ, et al. J Physiol (Lond) 1989 Jun;413:447–68
The effects of metabolic inhibition on intracellular calcium and pH in isolated rat ventricular cells. Eisner DA, et al. J Physiol (Lond) 1989 Apr;411:393–418
The mechanism of early contractile failure of isolated rat ventricular myocytes subjected to complete metabolic inhibition. Lederer WJ, et al. J Physiol (Lond) 1989 Jun; 413:329–49
Central action of an inhibitor of brain dopa-decarboxylase, NSD-1015, on cyanamide-induced alcohol drinking in rats. Miñano FJ, et al. Pharmacol Biochem Behav 1990 Feb; 35(2):465–8
The visual pigment cyanide effect. Crescitelli F, et al. Photochem Photobiol 1989 Dec;50(6):785–91
Cyanide-induced neurotoxicity: calcium mediation of morphological changes in neuronal cells. Maduh EU, et al. Toxicol Appl Pharmacol 1990 Apr;103(2):214–21
[Disulfiram and calcium carbimide. Mode of action, adverse effects and clinical use] Johnsen J, et al. Tidsskr Nor Laegeforen 1990 Apr 10;110(10):1224–8 (14 ref.) (Eng. Abstr.) (Nor)

POISONING

Cyanide toxicity [letter; comment] Buchwald A. Ann Emerg Med 1989 Nov;18(11):1257 Comment on: Ann Emerg Med 1988 Dec;17(12):1316–20.
The effect of cyanide intoxication on hepatic rhodanese kinetics. Buzaleh AM, et al. Gen Pharmacol 1990; 21(2):219–22
Sequelae of attempted suicide by cyanide ingestion: a case report. Feldman JM, et al. Int J Psychiatry Med 1990; 20(2):173–9
The biohazard potential of cyanide poisoning during postmortem examination. Andrews JM, et al. J Forensic Sci 1989 Sep;34(5):1280–4
Surveillance of urinary thiocyanate concentration after epidemic spastic paraparesis in Mozambique. Casadei E, et al. J Trop Med Hyg 1990 Aug;93(4):257–61
Treatment of cyanide poisoning with 4-dimethylaminophenol (DMAP)—experimental and clinical overview. Weger NP. Middle East J Anesthesiol 1990 Feb;10(4):389–412 (45 ref.)
The metabolic effects of fatal cyanide poisoning. Singh BM, et al. Postgrad Med J 1989 Dec;65(770):923–5
[Acute cyanide poisoning in an infant] Haasnoot K, et al. Ned Tijdschr Geneeskd 1989 Sep 2;133(35):1753–6 (Eng. Abstr.) (Dut)
[Case of acute poisoning by mercuric oxycyanide] Stevens E, et al. Acta Clin Belg 1989;44(2):116–22 (Eng. Abstr.) (Fre)
[In vitro effects of hydroxocobalamin after cyanide intoxication] Riou B, et al. Ann Fr Anesth Reanim 1989; 8 Suppl:R241 (Fre)
[Potassium cyanide poisoning treated with hydroxocobalamin] Tassan H, et al. Ann Fr Anesth Reanim 1990;9(4):383–5 (Eng. Abstr.) (Fre)
[Rare medicinal mercury poisoning] Hackel R, et al. Beitr Gerichtl Med 1989;47:111–4 (Eng. Abstr.) (Ger)
[Cyanide poisoning: treatment with hyperoxygenation and sodium thiosulphate] Heintz B, et al. Dtsch Med Wochenschr 1990 Jul 13;115(28–29):1100–3 (Eng. Abstr.) (Ger)

THERAPEUTIC USE

Calcium carbimide in alcoholism treatment. Part 2: Medical findings of a short-term, placebo-controlled, double-blind clinical trial. Peachey JE, et al. Br J Addict 1989 Nov; 84(11):1359–66

TOXICITY

Cyanide intoxication—III. On the analogous and different effects provoked by non-lethal and lethal challenged doses. Buzaleh AM, et al. Gen Pharmacol 1990;21(1):27–32
Pattern of enzyme changes in rabbits administered linamarin or potassium cyanide. Padmaja G, et al. Indian J Exp Biol 1989 Jun;27(6):551–5
Studies of cobalamin as a vehicle for the renal excretion of cyanide anion. Williams HL, et al. J Lab Clin Med 1990 Jul;116(1):37–44
The effects of cyanide on neural and synaptic function in hippocampal slices. Aitken PG, et al. Neurotoxicology 1989 Summer;10(2):239–47
Effect of cyanamide on transaminases and other serum proteins in the rat. Llor J, et al. Rev Esp Fisiol 1989;45 Suppl:49–54
Protection by exogenous glutathione against hypoxic and cyanide-induced damage to isolated perfused rat livers. Younes M, et al. Toxicol Lett 1990 Feb;50(2–3):229–36
Protection against cyanide-induced convulsions with alpha-ketoglutarate. Yamamoto H. Toxicology 1990 Apr 30;61(3):221–8
Sodium cyanide and its rapid detoxification by grape juice. Smith RA. Vet Hum Toxicol 1989 Dec;31(6):538–9
[Structural changes in the rat cerebral cortex induced by alcohol in combination with aldehyde dehydrogenase inhibitors] Zimatkin SM. Arkh Anat Gistol Embriol 1989 Oct;97(10):13–20 (Eng. Abstr.) (Rus)

URINE

High performance liquid chromatography determination of cyanide in urine by pre-column fluorescence derivatization. Sano A, et al. Biomed Chromatogr 1989 Sep;3(5):209–12

CYANOACRYLATES

Cyanoacrylate tissue adhesive in the management of recurrent retinal detachment caused by macular hole [see comments] Sheta SM, et al. Am J Ophthalmol 1990 Jan 15;109(1):28–32 Comment in: Am J Ophthalmol 1990 May 15;109(5):616.
The quick-stick blepharoplasty. Christ JE. Ann Plast Surg 1986 Mar;16(3):269–70
Increased cytotoxicity of nanoparticle-carried Adriamycin in vitro and potentiation by verapamil and amiodarone. Kubiak C, et al. Biomaterials 1989 Oct;10(8):553–6
Tissue distribution of doxorubicin associated with polyisohexylcyanoacrylate nanoparticles. Verdun C, et al. Cancer Chemother Pharmacol 1990;26(1):13–8
Cyanoacrylates in dentistry: a review of the literature. Herod EL. J Can Dent Assoc 1990 Apr;56(4):331–4 (49 ref.)
Cyanoacrylate skin surface stripping: an improved approach for distinguishing dysplastic nevi from malignant melanomas. Piérard GE, et al. J Cutan Pathol 1989 Aug; 16(4):180–2
Methods for physical stabilization of ashed teeth in incinerated remains. Mincer HH, et al. J Forensic Sci 1990 Jul;35(4):971–4
Cyanoacrylate home denture repair: the problem and a solution. Clancy JM, et al. J Prosthet Dent 1989 Oct; 62(4):487–9
Inadvertent bucrylate pulmonary embolization: a case report. Takasugi JE, et al. J Thorac Imaging 1989 Oct;4(4):71–3
[Nanoparticles of doxorubicin: colloidal vectors in the treatment of hepatic metastases in animals] Chiannilkulchai N, et al. Bull Cancer (Paris) 1989;76(8):845–8 (Fre)

ADMINISTRATION & DOSAGE

Embolization of cerebral arteriovenous malformations with bucrylate. Experience in a first series of 29 patients. Berthelsen B, et al. Acta Radiol 1990 Jan;31(1):13–21
[Gastrectomy using only a glue "suture" in an experimental study] Gigauri VS, et al. Khirurgiia (Mosk) 1990 Apr; (4):110–4 (Rus)
[Immediate results of the use of prospidin in a cyanoacrylate glue compound in cancer of the esophagus] Chissov VI, et al. Sov Med 1989;(7):28–31 (Eng. Abstr.) (Rus)
[Use of cytostatics in polymer-drug complexes in the treatment of malignant neoplasms of the maxilla] Rusakov IG, et al. Sov Med 1990;(1):23–4 (Eng. Abstr.) (Rus)
[Antibacterial threads in surgery of the lungs] Polous IuM, et al. Vestn Khir 1989 May;142(5):10–2 (Eng. Abstr.) (Rus)
[Experience with the use of endoscopic glue injections in gastrointestinal hemorrhage of non-neoplastic etiology] Sinev IuV, et al. Vestn Khir 1989 Apr;142(4):108–10 (Rus)

ADVERSE EFFECTS

Superglue inadvertently used as eyedrops [letter] [see comments] Lyons C, et al. BMJ 1990 Feb 3;300(6720):328 Comment in: BMJ 1990 Mar 10;300(6725):680.
Cyanoacrylate nail glue mistaken for eye drops [letter] DeRespinis PA. JAMA 1990 May 2;263(17):2301
Pancreatoduodenal necrosis after endoscopic injection of cyanoacrylate to treat a bleeding duodenal ulcer: a case report. Vallieres E, et al. Surgery 1989 Nov;106(5):901–3

CHEMICAL SYNTHESIS

Modification of synthesis and investigation of properties for 2-cyanoacrylates. Tseng YC, et al. Biomaterials 1990 Jan; 11(1):73–9
New method for the preparation of cyanoacrylic nanoparticles with improved colloidal properties. Lenaerts V, et al. J Pharm Sci 1989 Dec;78(12):1051–2

THERAPEUTIC USE

Cyanoacrylate tissue adhesive in the management of recurrent retinal detachment caused by macular hole [letter; comment] Bovino JA, et al. Am J Ophthalmol 1990 May 15;109(5):616 Comment on: Am J Ophthalmol 1990 Jan 15;109(1):28–32.
Cyanoacrylate tissue adhesive and facial lacerations [letter; comment] BMJ 1989 Nov 11;299(6709):1217–8 Comment on: BMJ 1989 Oct 21;299(6706):1014.
Modified ethoxyethyl cyanoacrylate for therapeutic embolization of arteriovenous malformation. Tseng YC, et al. J Biomed Mater Res 1990 Jan;24(1):65–77
[Use of MK-2 glue for the arrest of hemorrhage from the

sacral veins] Knysh VI, et al. **Sov Med** 1989;(11):71–3 **(Rus)**

[The use of the medical glue cyacrin for the fixation of parapulpar pins] Makeev VF, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):76–7 **(Rus)**

[The use of Cyacrin medical glue as an insulating coating in the filling of hard tissue defects of the teeth] Makeev VF, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):72–3 **(Rus)**

TOXICITY

Histotoxicity of cyanoacrylate tissue adhesives. A comparative study. Toriumi DM, et al. **Arch Otolaryngol Head Neck Surg** 1990 May;116(5):546–50

Cyanoacrylates and corneal abrasion. Dean BS, et al. **J Toxicol Clin Toxicol** 1989;27(3):169–72

CYANOBACTERIA see **ALGAE, BLUE-GREEN**

CYANOCOBALAMIN see **VITAMIN B 12**

CYANOGEN BROMIDE

Internal amino acid sequencing of proteins by in situ cyanogen bromide cleavage in polyacrylamide gels. Jahnen W, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):139–45

Assembly properties of two CNBr fragments of avian desmin that correspond to the headpiece domain and helix 1B. Saeed T, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1059–66

Factors affecting a cyanogen bromide–based assay of thiamin. Wyatt DT, et al. **Clin Chem** 1989 Nov;35(11):2173–8

DIAGNOSTIC USE

Transfer of proteins to membranes facilitates both cyanogen bromide cleavage and two–dimensional proteolytic mapping. Luo KX, et al. **Oncogene** 1990 Jun;5(6):921–3

ISOLATION & PURIFICATION

Studies on the formation, separation, and characterization of cyanogen bromide fragments of human AI apolipoprotein. Morrison JR, et al. **Anal Biochem** 1990 Apr; 186(1):145–52

METABOLISM

Formylated peptides from cyanogen bromide digests identified by fast atom bombardment mass spectrometry. Goodlett DR, et al. **Anal Biochem** 1990 Apr;186(1):116–20

PHARMACOKINETICS

Effect of the distal histidine modification (Cyanation) of myoglobin on the ligand binding kinetics and the heme environmental structures. Morishima I, et al. **Biochemistry** 1989 Sep 19;28(19):7582–6

PHARMACOLOGY

Certain N–terminal peptides inhibit uptake of mature aspartate aminotransferase by isolated mitochondria. Barile M, et al. **Biochem Biophys Res Commun** 1990 Jul 31; 170(2):609–15

CYANOKETONE see under **ANDROSTENOLS**

CYANOMETHANES see **ACETONITRILES**

CYANOPHYCEAE see **ALGAE, BLUE-GREEN**

CYANOPHYTA see **ALGAE, BLUE-GREEN**

CYANOSIS

BLOOD

How much reduced hemoglobin is necessary to generate central cyanosis? Martin L, et al. **Chest** 1990 Jan; 97(1):182–5 (48 ref.)

Hb F–M–Osaka or alpha 2G gamma 2(63)(E7)His——Tyr in a Caucasian male infant. Glader BE, et al. **Hemoglobin** 1989;13(7–8):769–73

[Sex and gonadotropic hormones in arteriopathy with lesions of the brain and skin (Sneddon's syndrome)] Kalashnikova LA, et al. **Sov Med** 1989;(6):8–13 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Methemoglobinemia with oxidized hemoglobins and modified hemoglobins found in bloods of workers handling aromatic compounds and in those of a man who drank cresol solution. Minami M, et al. **Biomed Biochim Acta** 1990;49(2–3):S327–33

A case of cyanosis without hypoxemia. Ducker TE, et al. **J Tenn Med Assoc** 1990 Jan;83(1):22

COMPLICATIONS

Prolonged survival despite severe cyanosis in an adult with right ventricular hypoplasia and atrial septal defect. Karalis DG, et al. **Am Heart J** 1990 Sep;120(3):701–3

CONGENITAL

Congenital cyanosis due to methemoglobin reductase deficiency: first reported Tunisian case. Hafsia R, et al. **Nouv Rev Fr Hematol** 1989;31(5):371–3

DIAGNOSIS

Erroneous explanation for an erroneous pulse oximeter reading [letter; comment] Oyston J, et al. **Anaesthesia** 1990 Mar;45(3):258 Comment on: Anaesthesia 1989 Oct;44(10):868.

Association of acrocyanosis with Asperger's syndrome. Carpenter PK, et al. **J Ment Defic Res** 1990 Feb;34 (Pt 1):87–90

Evaluation of the cyanotic newborn. Driscoll DJ. **Pediatr Clin North Am** 1990 Feb;37(1):1–23 (36 ref.)

Investigation of cyanotic/apneic episodes and sleep–related upper airway obstruction by long–term non–invasive bedside recordings. Abraham NG, et al. **Pediatr Pulmonol** 1990;8(4):259–62

ETIOLOGY

Cyanosis in a parturient; central or peripheral? [letter] Mackenzie JW. **Anaesthesia** 1989 Dec;44(12):1006–7

Cyanosis and Raynaud's phenomenon: the relation to underlying disease and venous abnormalities. Engelhart M, et al. **Angiology** 1990 Jun;41(6):432–8

"Nailpolish sign" in cyanotic heart disease [letter] Mehan VK, et al. **Lancet** 1990 Jul 7;336(8706):62

Clinical findings and severity of acute bronchiolitis. Mulholland EK, et al. **Lancet** 1990 May 26; 335(8700):1259–61

Pulmonary artery to the left atrium fistula as an unusual cause of cyanosis in the newborn. Jimenez M, et al. **Pediatr Cardiol** 1989 Fall;10(4):216–20 (36 ref.)

[Is circumoral cyanosis a sign of peripheral or of central cyanosis?] Kamp GA, et al. **Ned Tijdschr Geneeskd** 1989 Jul 8;133(27):1360–4 (Eng. Abstr.) **(Dut)**

["Acro–erythro–cyanosis"—peculiar vasomotor symptoms due to cervical hernial myelopathy] Takahashi N, et al. **Rinsho Shinkeigaku** 1990 Feb;30(2):151–6 (Eng. Abstr.) **(Jpn)**

[Cyanosis in children caused by inherited methemoglobinemia due to deficiency of NADH–dependent methemoglobin reductase in erythrocytes] Jabłońska–Skwiecińska E, et al. **Pediatr Pol** 1989 Jan;64(1):53–9 (Eng. Abstr.) **(Pol)**

GENETICS

[Hereditary cyanosis caused by the presence of abnormal hemoglobin M in the blood: its detection, identification and properties] Kazanets EG, et al. **Gematol Transfuziol** 1990 Mar;35(3):9–13 (Eng. Abstr.) **(Rus)**

METABOLISM

Differential regulation of right and left ventricular beta–adrenergic receptors in newborn lambs with experimental cyanotic heart disease. Bernstein D, et al. **J Clin Invest** 1990 Jan;85(1):68–74

PHYSIOPATHOLOGY

Cardiorespiratory patterns in infants presenting with apparent life–threatening episodes. Southall DP, et al. **Biol Neonate** 1990;57(2):77–87

SURGERY

[The child with heart surgery. Current developments, early and late results of corrective surgery in cyanotic heart defects in childhood] Rigler B, et al. **Wien Med Wochenschr** 1990 Jun 15;140(10–11):262–6 (Eng. Abstr.) **(Ger)**

THERAPY

Acrocyanosis in a spinal cord injured patient—effects of computer–controlled neuromuscular electrical stimulation: a case report. Twist DJ. **Phys Ther** 1990 Jan;70(1):45–9

Palliative percutaneous balloon valvuloplasty in a cyanotic child with tetralogy of Fallot. Mehta AV, et al. **South Med J** 1990 Mar;83(3):360–1

CYBERNETICS

see related
BIONICS

Distributed parallel processing in the vertical vestibulo–ocular reflex: learning networks compared to tensor theory. Anastasio TJ, et al. **Biol Cybern** 1990; 63(3):161–7 (15 ref.)

White noise analysis of temporal properties in simple receptive fields of cat cortex. Mancini M, et al. **Biol Cybern** 1990;63(3):209–19

Extraction of motion parallax structure in the visual system. I. Werkhoven P, et al. **Biol Cybern** 1990;63(3):185–91

Extraction of motion parallax structure in the visual system. II. Werkhoven P, et al. **Biol Cybern** 1990;63(3):193–9

Mind–body problems in family therapy: contrasting first– and second–order cybernetics approaches. Griffith JL, et al. **Fam Process** 1990 Mar;29(1):13–28

Verification of immune response optimality through cybernetic modeling. Batt BC, et al. **J Theor Biol** 1990 Feb 9;142(3):317–40

CYCASIN see under **AZO COMPOUNDS**

CYCLACILLIN see under **PENICILLINS**

CYCLAMATES

PHARMACOLOGY

Aspartame: effect on lunch–time food intake, appetite and hedonic response in children. Anderson GH, et al. **Appetite** 1989 Oct;13(2):93–103

Taste as a highly discriminative system: a hamster intrapapillar single unit study with 18 compounds. Faurion A, et al. **Brain Res** 1990 Apr 2;512(2):317–32

The effects of energy content and sweet taste on food consumption in restrained and non–restrained eaters. Ho EE, et al. **J Am Diet Assoc** 1990 Sep;90(9):1223–8

TOXICITY

Assessment of the genotoxicity of calcium cyclamate and cyclohexylamine. Brusick D, et al. **Environ Mol Mutagen** 1989;14(3):188–99

CYCLANDELATE see under **MANDELIC ACIDS**

CYCLAZOCINE

ANALOGS & DERIVATIVES

Role of renal nerves in excretory responses to administration of kappa agonists in conscious spontaneously hypertensive rats. Kapusta DR, et al. **J Pharmacol Exp Ther** 1989 Oct; 251(1):230–7

Kappa agonists inhibit gastric emptying but not acid secretion in rhesus monkeys. Touzeau PL, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1010–6

Antinociceptive activity of intracisternally and intrathecally administered eptazocine, a novel analgesic, in mice. Aoki M, et al. **Methods Find Exp Clin Pharmacol** 1990 Jan–Feb; 12(1):11–5

Multidimensional scaling of subjective judgements of drug similarities among ketocyclazocine, morphine, cyclazocine, naloxone and placebo. Kumor KM, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):397–404

Cardiovascular and respiratory effects of an opioid kappa agonist ethylketazocine and sigma agonist N–allylnormetazocine in acutely decerebrated dogs. Wu KM, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):405–11

Pharmacologic evidence for nociception resulting from noncontingent "rewarding" brain stimulation. Pollock J, et al. **Physiol Behav** 1990 Apr;47(4):761–5

Mu–opioid component of the ethylketocyclazocine (EKC) discriminative stimulus in the rat. Locke KW, et al. **Psychopharmacology (Berl)** 1989;99(4):492–6

Effects of morphine, ethylketocyclazocine, N–allylnormetazocine and naloxone on locomotor activity in the rabbit. Schindler CW, et al. **Psychopharmacology (Berl)** 1990;101(2):172–7

[Protective effect of eptazocine, a novel analgesic, against cerebral hypoxia–anoxia in mice] Tamura T, et al. **Nippon Yakurigaku Zasshi** 1990 Apr;95(4):167–75 (Eng. Abstr.) **(Jpn)**

[Preferential action of eptazocine, a novel analgesic, with opioid receptors in isolated guinea pig ileum and mouse vas deferens preparations] Tamura T, et al. **Nippon Yakurigaku Zasshi** 1990 Jan;95(1):41–6 (Eng. Abstr.) **(Jpn)**

METABOLISM

Affinity of the enantiomers of alpha– and beta–cyclazocine for binding to the phencyclidine and mu opioid receptors. Todd SL, et al. **Life Sci** 1990;46(12):895–901

PHARMACOLOGY

Binding of opioids to human MCF–7 breast cancer cells and their effects on growth. Maneckjee R, et al. **Cancer Res** 1990 Apr 15;50(8):2234–8

Cyclazocine and pentazocine as N–methylaspartate antagonists on cat and rat spinal neurons in vivo. Church J, et al. **J Pharmacol Exp Ther** 1990 May;253(2):636–45

Multidimensional scaling of subjective judgements of drug similarities among ketocyclazocine, morphine, cyclazocine, naloxone and placebo. Kumor KM, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):397–404

[Influence of four opioids on pulmonary oxygenation and naloxone's effects in mechanically ventilated dogs] Takahashi H, et al. **Masui** 1989 Jul;38(7):880–7 (Eng. Abstr.) **(Jpn)**

CYCLIC AMP see **ADENOSINE CYCLIC MONOPHOSPHATE**

CYCLIC AMP-DEPENDENT PROTEIN KINASE see **PROTEIN KINASES**

3',5'-CYCLIC AMP 5'-NUCLEOTIDOHYDROLASE see **3',5'-CYCLIC AMP PHOSPHODIESTERASE**

3',5'-CYCLIC AMP PHOSPHODIESTERASE

ANALYSIS

Determination of cyclic nucleotide phosphodiesterase activity in cellular systems by ion-pair reversed-phase liquid chromatography. Techel D, et al. **J Chromatogr** 1989 Dec 8;483:427-30

Model of prostaglandin-regulated cyclic AMP metabolism in intact platelets: examination of time-dependent effects on adenylate cyclase and phosphodiesterase activities. Ashby B. **Mol Pharmacol** 1989 Dec;36(6):866-73

ANTAGONISTS & INHIBITORS

Modulation of carbachol-induced inositol phosphate formation in bovine tracheal smooth muscle by cyclic AMP phosphodiesterase inhibitors. Hall IP, et al. **Biochem Pharmacol** 1990 Apr 15;39(8):1357-63

Inhibition by new anthraquinone compounds, K-259-2 and KS-619-1, of calmodulin-dependent cyclic nucleotide phosphodiesterase. Matsuda Y, et al. **Biochem Pharmacol** 1990 Mar 1;39(5):841-9

Variation of the inhibition of calmodulin dependent cyclic AMP phosphodiesterase amongst analogues of tamoxifen; correlations with cytotoxicity. Rowlands MG, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):283-9

The effect of M&B 22948 on methacholine- and histamine-induced contraction and inositol 1,4,5-trisphosphate levels in guinea-pig tracheal tissue. Langlands JM, et al. **Br J Pharmacol** 1989 Oct;98(2):336-8

Inhibition of adenosine 3',5'-cyclic monophosphate phosphodiesterase by flavonoids. III. Nikaido T, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1392-5

Inhibitory effects of DN-9693 on platelet-enhanced tumor cell attachment to cultured endothelium. Tohgo A, et al. **Invasion Metastasis** 1990;10(1):1-17

KS-504 compounds, novel inhibitors of Ca2+ and calmodulin-dependent cyclic nucleotide phosphodiesterase from Mollisia ventosa. Nakanishi S, et al. **J Antibiot (Tokyo)** 1989 Dec;42(12):1775-83

Effects of amrinone and enoximone on the subclasses of cyclic AMP phosphodiesterase from human heart and kidney. Masuoka H, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):302-7

Implication of cyclic AMP in the positive inotropic effects of cyclic GMP-inhibited cyclic AMP phosphodiesterase inhibitors on guinea pig isolated left atria. Muller B, et al. **J Cardiovasc Pharmacol** 1990 Mar;15(3):444-51

Analysis of zaprinast in rat and human plasma by automated solid-phase extraction and reversed-phase high-performance liquid chromatography. Picot VS, et al. **J Chromatogr** 1990 May 18;527(2):454-60

Conformationally constrained congeners of 6-aryl-5-methyl-4,5-dihydro-3(2H)-pyridazinones active on the cardiovascular system: conformational studies by molecular mechanics calculations and 1H NMR spectroscopy. Toma L, et al. **J Med Chem** 1990 Jun; 33(6):1591-4

Role of low Km cyclic AMP phosphodiesterase inhibition in tracheal relaxation and bronchodilation in the guinea pig. Harris AL, et al. **J Pharmacol Exp Ther** 1989 Oct; 251(1):199-206

Potentiation of nonadrenergic neural relaxation in guinea pig airways by a cyclic cAMP phosphodiesterase inhibitor. Rhoden KJ, et al. **J Pharmacol Exp Ther** 1990 Jan; 252(1):396-402

Cardiovascular responses to a newly developed phosphodiesterase inhibitor, DN-9693 [7-pyperidinyl-1,2,3,5-tetrahydroimidazo (2,1-b)-quinazolin-2-one.HCl] in dog cross-circulated atrial and ventricular preparations. Akahane K, et al. **Jpn Heart J** 1989 Nov;30(6):903-15

Glucagon stimulates the cardiac Ca2+ current by activation of adenylyl cyclase and inhibition of phosphodiesterase. Méry PF, et al. **Nature** 1990 May 10;345(6271):158-61

Beta-adrenoceptor responsiveness in intact leukocytes from adults and newborn infants; effect of phosphodiesterase inhibitors. Foged N, et al. **Scand J Clin Lab Invest** 1990 Apr;50(2):169-75

Pharmacology of a potent, new antithrombotic agent, 1,3-dihydro-7,8-dimethyl-2H-imidazo[4,5-b]quinolin-2-one (BMY-20844). Buchanan JO, et al. **Thromb Res** 1989 Nov 1;56(3):333-46

BLOOD

Three new potential cAMP affinity labels. Inactivation of human platelet low Km cAMP phosphodiesterase by 8-[(4-bromo-2,3-dioxobutyl)thio]adenosine 3',5'-cyclic monophosphate. Grant PG, et al. **Biochemistry** 1990 Jan 30;29(4):887-94

Purification and characterization of a cyclic GMP-stimulated cyclic nucleotide phosphodiesterase from the cytosol of human platelets. Grant PG, et al. **Thromb Res** 1990 Jul 1;59(1):105-19

[Characteristics of the action of euphylline and the activity of forms of cAMP phosphodiesterase in lymphocytes of patients with bronchial asthma] Ialkut SI, et al. **Farmakol Toksikol** 1989 Sep-Oct;52(5):81-3 (Eng. Abstr.) **(Rus)**

GENETICS

Cyclic AMP responses are suppressed in mammalian cells expressing the yeast low Km cAMP-phosphodiesterase gene. Van Lookeren Campagne MM, et al. **J Biol Chem** 1990 Apr 5;265(10):5840-6

Cloning and expression of cDNA for a human low-Km, rolipram-sensitive cyclic AMP phosphodiesterase. Livi GP, et al. **Mol Cell Biol** 1990 Jun;10(6):2678-86

Transforming ras proteins accelerate hormone-induced maturation and stimulate cyclic AMP phosphodiesterase in Xenopus oocytes. Sadler SE, et al. **Mol Cell Biol** 1990 Apr;10(4):1689-96

Rat homologs of the Drosophila dunce gene code for cyclic AMP phosphodiesterases sensitive to rolipram and RO 20-1724. Henkel-Tigges J, et al. **Mol Pharmacol** 1990 Jan; 37(1):7-10

The mRNA encoding a high-affinity cAMP phosphodiesterase is regulated by hormones and cAMP. Swinnen JV, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8197-201

ISOLATION & PURIFICATION

Presence and properties of cAMP phosphodiesterase from promastigote forms of Leishmania tropica and Leishmania donovani. al-Chalabi KA, et al. **Comp Biochem Physiol [B]** 1989;93(4):789-92

Isolation of similar rolipram-inhibitable cyclic-AMP-specific phosphodiesterases from rat brain and heart. Németz G, et al. **Eur J Biochem** 1989 Oct 1;184(3):511-20

Calcium-dependent phosphodiesterase from male mouse germ cells: functional properties and characterization of the enzyme. Giorgi M, et al. **Ital J Biochem** 1989 Jul-Aug; 38(4):261A-263A

Resolution of soluble rat cardiac phosphodiesterases by high performance liquid chromatography. Bode DC, et al. **Second Messengers Phosphoproteins** 1988-89; 12(5-6):235-40

Further studies on the phosphorylation-regulated cAMP-phosphodiesterase from the dimorphic fungus Mucor rouxii. Tomes C, et al. **Second Messengers Phosphoproteins** 1988-89; 12(5-6):289-99

[3',5'-cyclic nucleotide phosphodiesterase from human brain] Bobruskin ID, et al. **Biokhimiia** 1989 Sep;54(9):1499-507 (Eng. Abstr.) **(Rus)**

METABOLISM

Cell-free stimulation of the insulin-sensitive cAMP phosphodiesterase by the joint actions of ATP and the soluble fraction from insulin-treated rat liver. Shibata H, et al. **Biochem Biophys Res Commun** 1990 Jul 31; 170(2):533-9

Stimulation of the insulin-sensitive cAMP phosphodiesterase by an ATP-dependent soluble factor from insulin-treated rat adipocytes. Shibata H, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):614-20

Concanavalin A stimulates the Rolipram-sensitive isoforms of cyclic nucleotide phosphodiesterase in rat thymic lymphocytes. Valette L, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):864-72

Insulin alters the target size of the peripheral cyclic AMP phosphodiesterase but not the integral cyclic GMP-stimulated cyclic AMP phosphodiesterase in liver plasma membranes. Wallace AV, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):377-82

Reduction of cyclic AMP phosphodiesterase activity of several subcellular fractions of rat brain after pretreatment with phospholipase C. Azila N, et al. **Biochem Int** 1989 Nov;19(5):1077-85

A comparative kinetic study of bovine calmodulin-dependent cyclic nucleotide phosphodiesterase isozymes utilizing cAMP, cGMP and their 2'-O-anthraniloyl-,2'-O-(N-methylanthraniloyl)-derivatives as substrates. Grewal J, et al. **Biochem Int** 1989 Dec;19(6):1287-95

Properties of a cyclic 3'5'-nucleotide phosphodiesterase from Vigna mungo. Lee CH, et al. **Biochem Int** 1989 Oct; 19(4):745-53

Subcellular localization and hormone sensitivity of adipocyte cyclic AMP phosphodiesterase. Anderson NG, et al. **Biochem J** 1989 Sep 15;262(3):867-72

Insulin stimulates the tyrosyl phosphorylation and activation of the 52 kDa peripheral plasma-membrane cyclic AMP phosphodiesterase in intact hepatocytes. Pyne NJ, et al. **Biochem J** 1989 Aug 1;261(3):897-904

Pig aortic endothelial-cell cyclic nucleotide phosphodiesterases. Use of phosphodiesterase inhibitors to evaluate their roles in regulating cyclic nucleotide levels in intact cells. Souness JE, et al. **Biochem J** 1990 Feb 15; 266(1):127-32

Resolution of soluble cyclic nucleotide phosphodiesterase isoenzymes, from liver and hepatocytes, identifies a novel IBMX-insensitive form. Lavan BE, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4123-36

Characterization of cyclic nucleotide phosphodiesterases from cultured bovine aortic endothelial cells. Lugnier C, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):75-84

Autoradiographic mapping of a selective cyclic adenosine monophosphate phosphodiesterase in rat brain with the antidepressant [3H]rolipram. Kaulen P, et al. **Brain Res** 1989 Dec 4;503(2):229-45

cAMP levels and in situ measurement of cAMP related enzymes during yeast-to-hyphae transition in Candida albicans. Egidy G, et al. **Cell Biol Int Rep** 1990 Jan; 14(1):59-68

Characterization of human placental cytosolic adenosine 3',5'-monophosphate phosphodiesterase by inhibitors and insulin treatment. Xiong LM, et al. **Endocrinology** 1990 Apr;126(4):2102-9

Effect of phospholipase C treatment on the activity of the particulate cyclic nucleotide phosphodiesterase of rat brain. Azila N, et al. **Int J Biochem** 1989;21(10):1157-9

3'-5'cAMP phosphodiesterase in pig liver nuclei. Lupidi G, et al. **Ital J Biochem** 1990 Jan-Feb;39(1):30-7

Characterization of the yeast low Km cAMP-phosphodiesterase with cAMP analogues. Applications in mammalian cells that express the yeast PDE2 gene. Van Lookeren Campagne MM, et al. **J Biol Chem** 1990 Apr 5;265(10):5847-54

Adenylate cyclase-cyclic AMP-phosphodiesterase system in microdissected brain areas of normotensive and spontaneously hypertensive rats. Bahner U, et al. **J Chem Neuroanat** 1989 Jan-Feb;2(1):45-55

Insulin control of cyclic AMP phosphodiesterase. Smoake JA, et al. **Life Sci** 1989;45(23):2255-68 (144 ref.)

Characterization and selective inhibition of cyclic nucleotide phosphodiesterase isozymes in canine tracheal smooth muscle. Torphy TJ, et al. **Mol Pharmacol** 1990 Feb; 37(2):206-14

RMI 12330A, an inhibitor of adenylate cyclase and cyclic AMP-phosphodiesterase activities in the segmental ganglia of the leech Hirudo medicinalis. Biondi C, et al. **Neurosci Lett** 1990 Jun 8;113(3):322-7

Evidence that insulin and isoprenaline activate the cGMP-inhibited low-Km cAMP phosphodiesterase in rat fat cells by phosphorylation. Degerman E, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):533-7

Holothurin: an activator of bovine brain 3'-5' phosphodiesterase. Vig PJ, et al. **Res Commun Chem Pathol Pharmacol** 1990 Mar; 67(3):419-22

Correlation of cell-free brain cyclic nucleotide phosphodiesterase activities to cyclic AMP decay in intact brain slices. Whalin ME, et al. **Second Messengers Phosphoproteins** 1988-89; 12(5-6):311-25

PHYSIOLOGY

Differential inhibition of human neutrophil functions. Role of cyclic AMP-specific, cyclic GMP-insensitive phosphodiesterase. Wright CD, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):699-707

Regulation of calcium current by low-Km cyclic AMP phosphodiesterases in cardiac cells. Fischmeister R, et al. **Mol Pharmacol** 1990 Sep;38(3):426-33

CYCLIC AMP RECEPTOR PROTEIN see **CATABOLITE GENE ACTIVATOR PROTEINS**

CYCLIC AMP RECEPTORS see **RECEPTORS, CYCLIC AMP**

CYCLIC GMP see **GUANOSINE CYCLIC MONOPHOSPHATE**

3',5'-CYCLIC GMP 5'-NUCLEOTIDOHYDROLASE see **3',5'-CYCLIC GMP PHOSPHODIESTERASE**

3',5'-CYCLIC GMP PHOSPHODIESTERASE

ANTAGONISTS & INHIBITORS

Role of selective cyclic GMP phosphodiesterase inhibition in the myorelaxant actions of M&B 22,948, MY-5445, vinpocetine and 1-methyl-3-isobutyl-8-(methylamino)xanthine. Souness JE, et al. **Br J Pharmacol** 1989 Nov;98(3):725-34

A phosphodiesterase inhibitor specific to a subset of bovine retinal cones. Hamilton SE, et al. **J Biol Chem** 1990 Jul 5;265(19):11259-64

Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography. Doyle E, et al. **J Chromatogr** 1990 Apr 27;527(1):67-77

Augmentation of the natriuretic activity of exogenous and endogenous atriopeptin in rats by inhibition of guanosine 3',5'-cyclic monophosphate degradation. Wilkins MR, et al. **J Clin Invest** 1990 Apr;85(4):1274-9

Depressor and natriuretic effects of M&B 22,948, a guanosine cyclic 3',5'-monophosphate-selective phosphodiesterase inhibitor. McMahon EG, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1000-5

Maximizing the natriuretic effect of endogenous atriopeptin in a rat model of heart failure. Wilkins MR, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6465-9

BLOOD

Purification and characterization of a cyclic GMP-stimulated cyclic nucleotide phosphodiesterase from the cytosol of human platelets. Grant PG, et al. **Thromb Res** 1990 Jul 1;59(1):105-19

CLASSIFICATION

Subclasses of cyclic GMP-specific phosphodiesterase and their role in regulating the effects of atrial natriuretic factor. Weishaar RE, et al. **Hypertension** 1990 May;15(5):528–40

GENETICS

Genetic mapping demonstrates that the alpha-subunit of retinal cGMP-phosphodiesterase is not the site of the rd mutation. Danciger M, et al. **Exp Eye Res** 1990 Aug; 51(2):185–9

Isolation and characterization of cDNA encoding the gamma-subunit of cGMP phosphodiesterase in human retina. Tuteja N, et al. **Gene** 1990 Apr 16;88(2):227–32

Molecular characterization of human and bovine rod photoreceptor cGMP phosphodiesterase alpha-subunit and chromosomal localization of the human gene. Pittler SJ, et al. **Genomics** 1990 Feb;6(2):272–83

Beta-subunit of bovine rod photoreceptor cGMP phosphodiesterase. Comparison with the phosphodiesterase family. Lipkin VM, et al. **J Biol Chem** 1990 Aug 5; 265(22):12955–9

Bovine cone photoreceptor cGMP phosphodiesterase structure deduced from a cDNA clone. Li TS, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):293–7

The membrane binding domain of rod cGMP phosphodiesterase is posttranslationally modified by methyl esterification at a C-terminal cysteine. Ong OC, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9238–42

Assignment to mouse chromosomes of candidate genes for the rd mutation. Farber DB, et al. **Prog Clin Biol Res** 1989; 314:143–53

[Automatic identification of structural gene fragments using a set of peptides] Kostetskiĭ PV, et al. **Bioorg Khim** 1990 Feb;16(2):202–10 (Eng. Abstr.) **(Rus)**

[Cyclic GMP phosphodiesterase from bovine retina. Amino acid sequence of beta-subunit and nucleotide sequence of corresponding cDNA] Lipkin VM, et al. **Bioorg Khim** 1990 Jan;16(1):118–20 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Characterization of particulate cyclic nucleotide phosphodiesterases from bovine brain: purification of a distinct cGMP-stimulated isoenzyme. Murashima S, et al. **Biochemistry** 1990 Jun 5;29(22):5285–92

Calcium-dependent phosphodiesterase from male mouse germ cells: functional properties and characterization of the enzyme. Giorgi M, et al. **Ital J Biochem** 1989 Jul–Aug; 38(4):261A–263A

Characterization of a purified bovine lung cGMP-binding cGMP phosphodiesterase. Thomas MK, et al. **J Biol Chem** 1990 Sep 5;265(25):14964–70

Resolution of soluble rat cardiac phosphodiesterases by high performance liquid chromatography. Bode DC, et al. **Second Messengers Phosphoproteins** 1988–89; 12(5–6):235–40

[3',5'-cyclic nucleotide phosphodiesterase from human brain] Bobruskin ID, et al. **Biokhimiia** 1989 Sep;54(9):1499–507 (Eng. Abstr.) **(Rus)**

METABOLISM

Concanavalin A stimulates the Rolipram-sensitive isoforms of cyclic nucleotide phosphodiesterase in rat thymic lymphocytes. Valette L, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):864–72

A comparative kinetic study of bovine calmodulin-dependent cyclic nucleotide phosphodiesterase isozymes utilizing cAMP, cGMP and their 2'-O-anthraniloyl-,2'-O-(N-methylanthraniloyl)-derivatives as substrates. Grewal J, et al. **Biochem Int** 1989 Dec;19(6):1287–95

Pig aortic endothelial-cell cyclic nucleotide phosphodiesterases. Use of phosphodiesterase inhibitors to evaluate their roles in regulating cyclic nucleotide levels in intact cells. Souness JE, et al. **Biochem J** 1990 Feb 15; 266(1):127–32

The effect of the gamma-subunit of the cyclic GMP phosphodiesterase of bovine and frog (Rana catesbiana) retinal rod outer segments on the kinetic parameters of the enzyme. Whalen MM, et al. **Biochem J** 1990 Feb 1; 265(3):655–8

Resolution of soluble cyclic nucleotide phosphodiesterase isoenzymes, from liver and hepatocytes, identifies a novel IBMX-insensitive form. Lavan BE, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4123–36

Characterization of cyclic nucleotide phosphodiesterases from cultured bovine aortic endothelial cells. Lugnier C, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):75–84

Activation of cGMP phosphodiesterase in retinal rods: mechanism of interaction with the GTP-binding protein (transducin). Bennett N, et al. **Biochemistry** 1989 Sep 5; 28(18):7418–24

Rhodopsin-detergent micelles aggregate upon activation of cyclic guanosine monophosphate phosphodiesterase. Caretta A, et al. **Biochemistry** 1990 Mar 20;29(11):2652–7

Subunit stoichiometry of retinal rod cGMP phosphodiesterase. Fung BK, et al. **Biochemistry** 1990 Mar 20;29(11):2657–64

G protein-effector coupling: interactions of recombinant inhibitory gamma subunit with transducin and phosphodiesterase. Griswold-Prenner I, et al. **Biochemistry** 1989 Jul 25;28(15):6145–50

Activation mechanism of retinal rod cyclic GMP phosphodiesterase probed by fluorescein-labeled inhibitory subunit. Wensel TG, et al. **Biochemistry** 1990 Feb 27; 29(8):2155–61

Substrate- and kinase-directed regulation of phosphorylation of a cGMP-binding phosphodiesterase by cGMP. Thomas MK, et al. **J Biol Chem** 1990 Sep 5;265(25):14971–8

Interactions between the subunits of transducin and cyclic GMP phosphodiesterase in Rana catesbiana rod photoreceptors. Yamazaki A, et al. **J Biol Chem** 1990 Jul 15;265(20):11539–48

Structural and functional studies of cyclic GMP phosphodiesterase. Lipkin VM, et al. **J Protein Chem** 1989 Jun;8(3):406–8

Inhibition and stimulation of photoreceptor phosphodiesterases by dipyridamole and M&B 22,948. Gillespie PG, et al. **Mol Pharmacol** 1989 Nov;36(5):773–81

Characterization and selective inhibition of cyclic nucleotide phosphodiesterase isozymes in canine tracheal smooth muscle. Torphy TJ, et al. **Mol Pharmacol** 1990 Feb; 37(2):206–14

[The population of cyclic GMP-specific phosphodiesterases in bovine retina rod outer segments differing in affinity to photoreceptor membranes] Orlov NIa, et al. **Dokl Akad Nauk SSSR** 1989;307(2):490–4 **(Rus)**

PHYSIOLOGY

Evidence for involvement of cyclic GMP phosphodiesterase in morphine tolerance. Burton CK, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):104–11

RADIATION EFFECTS

Transient response of retinal rod outer segment phosphodiesterase to actinic light pulses. I. Simple quantitative kinetic model. Schmidt JA, et al. **J Biol Chem** 1989 Nov 25;264(33):19790–803

Transient response of rod outer segment cGMP phosphodiesterase to actinic light pulses. II. Detailed quantitative kinetic model. Yguerabide J, et al. **J Biol Chem** 1989 Nov 25;264(33):19804–14

2',3'-CYCLIC NUCLEOTIDE PHOSPHODIESTERASES

Related domains in yeast tRNA ligase, bacteriophage T4 polynucleotide kinase and RNA ligase, and mammalian myelin 2',3'-cyclic nucleotide phosphohydrolase revealed by amino acid sequence comparison. Koonin EV, et al. **FEBS Lett** 1990 Jul 30;268(1):231–4

[Myelin proteins] Kitamura K, et al. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):572–88 **(Jpn)**

ANALYSIS

2',3'-cyclic nucleotide phosphohydrolase activity determined using an image analyzer detection system. Jacks AS 3d, et al. **Anal Biochem** 1990 Feb 1;184(2):321–4

Separation and identification of 2',3'-cyclic nucleotide 3'-phosphodiesterase on isoelectric focusing gels. Persson H, et al. **Anal Biochem** 1990 Apr;186(1):90–4

Effects of selective inhibitors on cyclic nucleotide phosphodiesterases of rabbit aorta. Ahn HS, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3331–9

Organization of oligodendroglial membrane sheets. I: Association of myelin basic protein and 2',3'-cyclic nucleotide 3'-phosphohydrolase with cytoskeleton. Dyer CA, et al. **J Neurosci Res** 1989 Oct;24(2):201–11

Primary sequence of cyclic nucleotide phosphodiesterase isozymes and the design of selective inhibitors. Beavo JA, et al. **Trends Pharmacol Sci** 1990 Apr;11(4):150–5 (35 ref.)

ANTAGONISTS & INHIBITORS

Structures of KS-501 and KS-502, the new inhibitors of Ca2+ and calmodulin-dependent cyclic nucleotide phosphodiesterase. Yasuzawa T, et al. **J Antibiot (Tokyo)** 1990 Apr;43(4):336–43

[The action of émoksipin on the basal activity of cyclic nucleotide phosphodiesterase and on the late receptor potential of the isolated retina] Shvedova AA, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):289–91 (Eng. Abstr.) **(Rus)**

[Aminobenzoic acid derivatives as specific inhibitors of cyclic nucleotide phosphodiesterase in the rat uterus] Garnovskaia MN, et al. **Ukr Biokhim Zh** 1990 Jan–Feb;62(1):97–101 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

A developmentally regulated and cAMP-repressible gene of Dictyostelium discoideum: cloning and expression of the gene encoding cyclic nucleotide phosphodiesterase inhibitor. Wu L, et al. **Gene** 1990 Jul 2;91(1):51–6

Biosynthesis of the myelin 2',3'-cyclic nucleotide 3'-phosphodiesterases. Gillespie CS, et al. **J Neurochem** 1990 Feb;54(2):656–61

BLOOD

Cyclic nucleotide phosphodiesterases and methyltransferases in purified lymphocytes, monocytes and polymorphonuclear leucocytes from healthy donors and asthmatic patients. Prigent AF, et al. **Eur J Clin Invest** 1990 Jun;20(3):323–9

GENETICS

Alternative splicing of mouse brain 2',3'-cyclic-nucleotide 3'-phosphodiesterase mRNA. Kurihara T, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1074–81

Structure of mouse 2',3'-cyclic-nucleotide 3'-phosphodiesterase gene. Monoh K, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1213–20

Developmental expression of myelin proteolipid, basic protein, and 2',3'-cyclic nucleotide 3'-phosphodiesterase transcripts in different rat brain regions. Kanfer J, et al. **J Mol Neurosci** 1989;1(1):39–46

Expression of the oligodendrocyte marker 2'3'-cyclic nucleotide 3'-phosphodiesterase in non-glial cells. Staugaitis SM, et al. **J Neurosci Res** 1990 Apr;25(4):556–60

ISOLATION & PURIFICATION

Identification and selective inhibition of four distinct soluble forms of cyclic nucleotide phosphodiesterase activity from kidney. Hoey M, et al. **Biochem Pharmacol** 1990 Jul 15; 40(2):193–202

METABOLISM

Regulation of the 63-kDa subunit-containing calmodulin-dependent cyclic nucleotide phosphodiesterase isozyme. Sharma RK, et al. **Adv Exp Med Biol** 1989; 255:397–408

Molecular properties of cyclic nucleotide phosphodiesterase isozymes. Strada SJ, et al. **Adv Exp Med Biol** 1989; 255:409–23

2',3'cyclic nucleotide-3'-phosphodiesterase in peripheral nerve myelin is phosphorylated by a phorbol ester-sensitive protein kinase. Agrawal HC, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):817–23

Effects of ruthenium red on activation of Ca2(+)-dependent cyclic nucleotide phosphodiesterase. Masuoka H, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):315–22

Effect of lipid peroxidation on Na+,K(+)-ATPase, 5'-nucleotidase and CNPase in mouse brain myelin. Domanska-Janik K, et al. **Biochim Biophys Acta** 1990 May 16;1034(2):200–6

Benzylisoquinoline compounds inhibit the ability of calmodulin to activate cyclic nucleotide phosphodiesterase. Hu ZY, et al. **Cell Signal** 1989;1(2):181–5

Glycerylphosphocholine phosphocholine phosphodiesterase activity is reduced in multiple sclerosis plaques. Janzen L, et al. **Exp Neurol** 1990 Aug;109(2):243–6

Regional maturation of neurotransmitter-related and glial markers during postnatal development in the rat. Virgili M, et al. **Int J Dev Neurosci** 1990;8(2):159–66

2',3'-cyclic nucleotide-3'-phosphodiesterase in the central nervous system is fatty-acylated by thioester linkage. Agrawal HC, et al. **J Biol Chem** 1990 Jul 15; 265(20):11849–53

Species-dependent differences in the properties of particulate cyclic nucleotide phosphodiesterase from rat and rabbit ventricular myocardium. Shahid M, et al. **J Pharm Pharmacol** 1990 Apr;42(4):283–4

Degradation products of myelin proteins in a light CNS subcellular fraction. Persson H, et al. **Neurochem Res** 1989 Dec;14(12):1177–80

2',3'-cyclic nucleotide-3'-phosphodiesterase activity as an index of myelin in the post-mortem brains of patients with Alzheimer's disease. Reinikainen KJ, et al. **Neurosci Lett** 1989 Nov 20;106(1–2):229–32

[Relationship between cyclic nucleotide phosphodiesterases (cPDE) and some patho-biologic behaviors of stomach cancer—I. Histochemical studies of CPDE in stomach cancer tissues] Xin Y. **Chung Hua Chung Liu Tsa Chih** 1989 Mar;11(2):117–20 (Eng. Abstr.) **(Chi)**

[Interaction of calcium agonists and antagonists with Ca-binding proteins and their effect on cyclic nucleotide phosphodiesterase] Feoktistov IA, et al. **Biokhimiia** 1990 Apr;55(4):754–9 (Eng. Abstr.) **(Rus)**

[Peptide-activator of cyclic nucleotide phosphodiesterases in the rat and human uterus] Garnovskaia MN, et al. **Ukr Biokhim Zh** 1989 Jul–Aug;61(4):100–3 (Eng. Abstr.) **(Rus)**

CYCLIC N-OXIDES

Measurement of time-resolved oxygen concentration changes in photosynthetic systems by nitroxide-based EPR oximetry. Strzalka K, et al. **Arch Biochem Biophys** 1990 Sep;281(2):312–8

Oximetry in cells and tissues using a nitroxide-liposome system. Chan HC, et al. **Biochim Biophys Acta** 1989 Nov 20;1014(2):141–4

Analysis of the reduction of nitroxides by flavin mononucleotide. Morse PD 2d, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):298–302

Structure and conformation of the nitroxyl spin-label ethyl 3-(2,2,5,5-tetramethylpyrrolinyl-1-oxyl)-propen-2-oate determined by electron nuclear double resonance: comparison with the structure of a spin-label substrate of carboxypeptidase A. Mustafi D, et al. **Biopolymers** 1990 Jan;29(1):45–55

Saturation transfer EPR measurements of the rotational

motion of a strongly immobilized ouabain spin label on renal Na,K-ATPase. Mahaney JE, et al. **FEBS Lett** 1990 Jan 29;260(2):160–4

Electron spin resonance studies of the reaction of hypochlorite with 5,5-dimethyl-1-pyrroline-N-oxide. Bernofsky C, et al. **Free Radic Biol Med** 1990;8(3):231–9

The spin trapping of superoxide with M4PO (3,3,5,5-tetramethylpyrroline-N-oxide). Buettner GR, et al. **Free Radic Biol Med** 1990;8(1):57–60

Heart protection and radical trapping by DMPO during reperfusion in isolated working rat hearts. Tosaki A, et al. **Free Radic Biol Med** 1990;8(4):363–72

Spin trapping evidence for radical generation by isolated hearts and cultured heart cells. Blasig IE, et al. **Free Radic Res Commun** 1989;6(5):303–10

On the reaction of superoxide with DMPO/.OOH. Buettner GR. **Free Radic Res Commun** 1990;10(1–2):11–5

Connecting hindered amines with aminoxyl radicals. I. One-step synthesis of spin-labelled esters. Drăgutan I. **Free Radic Res Commun** 1990;9(3–6):379–82

Fluorescence detection of free radicals by nitroxide scavenging. Gerlock JL, et al. **Free Radic Res Commun** 1990;10(1–2):119–21

DMPO spin trapping in the presence of Fe ion. Makino K, et al. **Free Radic Res Commun** 1990;9(3–6):233–40

[Use of spin probe in the determination of oxygen consumption in human neutrophils] Osipov AN, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):561–3 (Eng. Abstr.) **(Rus)**

ANALYSIS

Assignment of proton endor resonances of nitroxyl spin-labels in frozen solution. Mustafi D, et al. **Free Radic Res Commun** 1990;10(1–2):95–101

In vivo analysis of nitroxide radicals injected into small animals by L-band ESR technique. Ishida S, et al. **Phys Med Biol** 1989 Sep;34(9):1317–23

BLOOD

Interactions of nitroxides with plasma and blood: effect on 1/T1 of water protons. Bennett HF, et al. **Magn Reson Med** 1990 Apr;14(1):40–55

CHEMICAL SYNTHESIS

Spin-labeled oxazolopyridocarbazole as a probe for studying nonintercalating DNA groove binding ligands. Carrier A, et al. **Biochemistry** 1990 Jun 26;29(25):6002–9

Heteroarylalkanoic acids with possible antiinflammatoric activities. Part 6: 3-(4H-1,2,4-benzothiadiazine-1,1-dioxide-3-yl-thio)-propanoic acid derivatives. Gamberini G, et al. **Pharmazie** 1989 Sep;44(9):601–4

DIAGNOSTIC USE

[The use of a cupric derivative of triazene n-oxide for volumetric analysis of phenobarbital] Zosimo-Landolfo G, et al. **Pharm Acta Helv** 1990;65(7):194–5 (Eng. Abstr.) **(Fre)**

METABOLISM

Characterization of spin-labelled fatty acids and hematoporphyrin binding sites interactions in serum albumin. Gantchev TG, et al. **Biochim Biophys Acta** 1990 Mar 1;1037(3):422–34

Metabolism of nitroxide spin labels in subcellular fraction of rat liver. I. Reduction by microsomes. Iannone A, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):285–9

Metabolism of nitroxide spin labels in subcellular fractions of rat liver. II. Reduction in the cytosol. Iannone A, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):290–3

Incorporation of spin-labeled fatty acids into bovine brain clathrin coated vesicles. Privat JP, et al. **Biochim Biophys Acta** 1990 Apr 13;1023(2):274–82

Ascorbate-induced cancellation of nitroxide contrast media enhancement of MR images. Wikstrom MG, et al. **Invest Radiol** 1989 Sep;24(9):692–6

PHARMACOKINETICS

Effect of hyperthermia on lymphocyte plasma membrane. 3 electrolyte spin labels permeability. Koter M. **Cytobios** 1989;58(234–35):165–70

Pharmacokinetic study of tempo carboxylic acid, a nitroxyl MRI contrast media, in control and streptozocin diabetic rats. Michel A, et al. **J Pharm Pharmacol** 1989 Aug; 41(8):561–3

PHARMACOLOGY

The interaction of 5,5-dimethyl-1-pyrroline-N-oxide with human myeloperoxidase and its potential impact on spin trapping of neutrophil-derived free radicals. Britigan BE, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):72–81

The in vitro screening of methylated 4-oxypiperidine compounds for inhibition of protein synthesis in a rabbit reticulocyte cell-free translation system. Kuznetsov DA, et al. **Cell Biol Toxicol** 1986 Sep;2(3):337–40

Anti-coccidial activity of 2-picoline, 6-amino-4-nitro-, 1-oxide. Folz SD, et al. **J Parasitol** 1989 Oct;75(5):696–701

CYCLICITY see **PERIODICITY**

CYCLITIS, CHRONIC see **UVEITIS, INTERMEDIATE**

CYCLITIS, HETEROCHROMIC see **IRIDOCYCLITIS**

CYCLIZINE

POISONING

Fatality resulting from cyclizine overdose. Backer RC, et al. **J Anal Toxicol** 1989 Sep-Oct;13(5):308–9

URINE

Solid-phase cation exchange extraction of basic drugs from the urine of racing greyhounds. Moore CM. **J Forensic Sci Soc** 1990 May-Jun;30(3):123–9

CYCLOBARBITAL see under **BARBITURATES**

CYCLOBUTANES

Characterization of photo-induced pyrimidine cyclobutane dimers by laser desorption Fourier transform mass spectrometry. Hettich RL, et al. **Biomed Environ Mass Spectrom** 1990 Feb;19(2):55–62

ADVERSE EFFECTS

Sensitizing potential of cyclobutenediones [published erratum appears in Contact Dermatitis 1990 May;22(5):312] Avalos J, et al. **Contact Dermatitis** 1989 Nov;21(5):341–2

Contact urticaria during topical immunotherapy. Tosti A, et al. **Contact Dermatitis** 1989 Sep;21(3):196–7

CHEMICAL SYNTHESIS

Synthesis and biological activity of a new squaric acid-formylmethionine peptide conjugate. Kraus JL, et al. **Res Commun Chem Pathol Pharmacol** 1989 Aug; 65(2):229–36

Cycloadditions in syntheses. XXXVI. 6-Hydroxy-1,2-dihydrocyclobuta [a] naphthalene-2-carboxylic acid: a new synthon for A,B-ring aromatized steroids. Sato M, et al. **Steroids** 1989 Jun;53(6):739–50

IMMUNOLOGY

SADBE sensitization in the evaluation of cell-mediated immunity in patients with HIV infection. Gaddoni G, et al. **Contact Dermatitis** 1989 Aug;21(2):119–20

PHARMACOLOGY

Comparative study on cytogenetic effects by diplatinum complexes of the ligands of naphthazarine and squaric acid in human lymphocytes. Lialiaris T, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):368–71

A study on the inhibition of rat myocardium glutathione peroxidase and glutathione reductase by moniliformin. Chen LY, et al. **Mycopathologia** 1990 May;110(2):119–24

Effect on radiolabelled-monoamine uptake in vitro of plasma taken from healthy volunteers administered the antidepressant sibutramine HCl. Luscombe GP, et al. **Psychopharmacology (Berl)** 1990;100(3):345–9

THERAPEUTIC USE

Alopecia areata: more on topical sensitizers. Orecchia G, et al. **Dermatologica** 1990;180(2):57–9

TOXICITY

Acute toxic effects of an isolate of moniliformin-producing Fusarium oxysporum and purified moniliformin on rats. Abbas HK, et al. **Arch Environ Contam Toxicol** 1990 May-Jun;19(3):433–6

[Study on toxicological mechanism of moniliformin] Zhang H, et al. **Wei Sheng Wu Hsueh Pao** 1989 Apr;29(2):93–100 (Eng. Abstr.) **(Chi)**

CYCLOCYTIDINE see under **CYTARABINE**

CYCLOFENIL see under **CRESOLS**

CYCLOGUANIL PAMOATE see under **TRIAZINES**

CYCLOHEPTANES

Optimized radiolabelling of pig granulocytes with indium-111 tropolonate. Triandafillou JM, et al. **Int J Rad Appl Instrum [B]** 1990;17(5):469–72

ADMINISTRATION & DOSAGE

[Bencyclane in stage II arterial occlusive disease. Results of a controlled study] Trübestein G, et al. **Fortschr Med** 1989 Dec 20;107(36):781–4 (Eng. Abstr.) **(Ger)**

CHEMICAL SYNTHESIS

Synthesis and biological evaluation of substituted benzo[h]cinnolinones and 3H-benzo[6,7]cyclohepta[1,2-c]pyridazinones: higher homologues of the antihypertensive and antithrombotic 5H-indeno[1,2-c]pyridazinones. Cignarella G, et al. **J Med Chem** 1989 Oct;32(10):2277–82

Azulene derivatives: new non-prostanoid thromboxane A2 receptor antagonists. Tomiyama T, et al. **J Med Chem** 1990 Sep;33(9):2323–6

DIAGNOSTIC USE

[Experimental studies on the pathogenesis of adult respiratory distress syndrome using 111In-labeled polymorphonuclear leukocytes] Tsubouchi T. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):749–59 (Eng. Abstr.) **(Jpn)**

METABOLISM

Stereochemical studies on algal pheromone biosynthesis. A model study with the flowering plant Senecio isatideus (Asteraceae). Neumann C, et al. **Eur J Biochem** 1990 Jul 31;191(2):453–9

PHARMACOLOGY

Effects of bencyclane on normal and cevadine-modified Na channels in frog skeletal muscle. Nánási PP, et al. **Gen Physiol Biophys** 1989 Oct;8(5):447–58

Convulsant and anticonvulsant cyclopentanones and cyclohexanones. Holland KD, et al. **Mol Pharmacol** 1990 Jan;37(1):98–103

Cytoplasmic microtubules in human neutrophil degranulation: reversible inhibition by the colchicine analogue 2-methoxy-5-(2',3',4'-trimethoxyphenyl)-2,4,6-cycloheptatrien-1- one. Mollinedo F, et al. **Mol Pharmacol** 1989 Oct;36(4):547–55

[Functional alterations of human platelets following 111In labeling with different ligands and incubation media] Mieno M, et al. **Kaku Igaku** 1990 May;27(5):443–9 (Eng. Abstr.) **(Jpn)**

[The neuroendocrine effects of neonatal exposure to an inhibitor of catechol-o-methyltransferase and of sex steroids] Nosenko ND. **Probl Endokrinol (Mosk)** 1989 Sep-Oct;35(5):64–8 (Eng. Abstr.) **(Rus)**

TOXICITY

Toxicity screening of N-alkylazacycloheptan-2-one derivatives in cultured human skin cells: structure-toxicity relationships. Ponec M, et al. **J Pharm Sci** 1989 Sep; 78(9):738–41

Comparative induction of gene mutations and chromosome damage by 1-methoxy-1,3,5-cycloheptatriene (MCHT), 1. Results from a battery of standard tests. Asquith JC, et al. **Mutat Res** 1990 May;230(1):71–80

Comparative induction of gene mutations and chromosome damage by 1-methoxy-1,3,5-cycloheptatriene (MCHT), 2. Results using L5178Y mouse lymphoma cells to detect both gene and chromosome damage; validation with ionizing radiation, methyl methanesulphonate, ethyl methanesulphonate and benzo[a]pyrene. Cole J, et al. **Mutat Res** 1990 May;230(1):81–91

CYCLOHEXANECARBOXYLIC ACIDS

Detection of RNA on northern blots by negative staining with aurintricarboxylic acid. Oberbäumer I, et al. **Anal Biochem** 1990 Feb 15;185(1):77–9

Characterization and use of the potent ribonuclease inhibitor aurintricarboxylic acid for the isolation of RNA from animal tissues. Skidmore AF, et al. **Biochem J** 1989 Oct 1;263(1):73–80

Abscisic acid-induced microheterogeneity in phospholipid vesicles. A fluorescence study. Parasassi T, et al. **Biophys Chem** 1990 Jan;35(1):65–73

ADVERSE EFFECTS

Infant medication and sudden infant death syndrome. Walker AM, et al. **Am J Prev Med** 1988;4(2 Suppl):29–31

Massive pulmonary thromboembolism after tranexamic acid antifibrinolytic therapy. Woo KS, et al. **Br J Clin Pract** 1989 Dec;43(12):465–6

Extensive crescent formation with antifibrinolytic therapy in a case of diffuse endocapillary glomerulonephritis. Foster GR, et al. **Nephrol Dial Transplant** 1990;5(2):152–4

ANALYSIS

High-performance liquid chromatographic determination of tilidine in pharmaceutical dosage forms. Zivanov-Stakić D, et al. **Farmaco** 1989 Jul-Aug;44(7–8):759–62

ANTAGONISTS & INHIBITORS

Reversal by apomorphine of the gabaculine-induced GABA accumulation in mouse cortex. Steulet AF, et al. **Eur J Pharmacol** 1989 Dec 19;174(2–3):161–70

DIAGNOSTIC USE

Chiral synthon obtained with pig liver esterase: introduction of chiral centers into cyclohexene skeleton. Kobayashi S, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb;38(2):350–4

ISOLATION & PURIFICATION

Partial purification, and some properties and reactivities of cetraxate benzyl ester hydrochloride-hydrolyzing enzyme. Kuroda H, et al. **Chem Pharm Bull (Tokyo)** 1989 Nov; 37(11):2929–32

METABOLISM

Overexpression, purification, and characterization of isochorismate synthase (EntC), the first enzyme involved in the biosynthesis of enterobactin from chorismate. Liu J, et al. **Biochemistry** 1990 Feb 13;29(6):1417–25

Partial purification, and some properties and reactivities of cetraxate benzyl ester hydrochloride–hydrolyzing enzyme. Kuroda H, et al. **Chem Pharm Bull (Tokyo)** 1989 Nov; 37(11):2929–32

Osmotic stress and abscisic acid induce expression of the wheat Em genes. Morris PC, et al. **Eur J Biochem** 1990 Jul 5;190(3):625–30

Chorismic acid, a key metabolite in modification of tRNA. Hagervall TG, et al. **J Bacteriol** 1990 Jan;172(1):252–9

The in vitro conversion of chorismate to isochorismate catalyzed by the Escherichia coli entC gene product. Evidence that EntA does not contribute to isochorismate synthase activity. Tummuru MK, et al. **J Biol Chem** 1989 Dec 5;264(34):20547–51

Nuclear proteins bind conserved elements in the abscisic acid–responsive promoter of a rice rab gene. Mundy J, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1406–10

PHARMACOKINETICS

Pharmacokinetics of tilidine and metabolites in man. Vollmer KO, et al. **Arzneimittelforschung** 1989 Oct;39(10):1283–8

PHARMACOLOGY

Pulmonary embolism: emboli and fibrinolysis inhibition in isolated canine lungs. Townsley MI, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H754–8

Fluctuation of trypsin–like proteinase activity in the cell cycle of synchronized and growing HeLa cells, and the effect of GMCHA–OPhBut. Kozaki Y, et al. **Biochim Biophys Acta** 1989 Nov 20;1014(2):120–4

A trypsin–like proteinase appearing at 17 h and 17 min in the cell cycle time of HeLa cells correlates with the onset of DNA synthesis. Muramatu M, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):87–90

Plant sterol inhibition of abscisic acid–induced perturbations in phospholipid bilayers. Stillwell W, et al. **Biochim Biophys Acta** 1990 May 24;1024(2):345–51

On the effects of tranexamic acid and its isobenzedrine ester on plasminogen activation and streptokinase induced fibrinolysis. Baldacci M, et al. **Boll Soc Ital Biol Sper** 1989 Jun;65(6):521–8

The effect of M1 muscarinic blockade on behavior and physiological responses following traumatic brain injury in the rat. Robinson SE, et al. **Brain Res** 1990 Mar 12; 511(1):141–8

Gastric secretion and gastric emptying: a comparative study of the effects of dicyclomine, glycopyrrolate and atropine, using a new testing technique. Saiphoo C, et al. **Can Med Assoc J** 1968 Sep 14;99(10):489–93

The role of bicuculline, aminooxyacetic acid and gabaculine in the modulation of ethanol–induced motor impairment. Hinko CN, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):261–71

MDL 28,753, an agonist of LTD4 but an antagonist of LTC4 in longitudinal muscle of guinea pig ileum. Gieske TH, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):192–7

Effect of gabaculine on metabolism and release of gamma–aminobutyric acid in synaptosomes. Asakura T, et al. **Neurochem Res** 1990 Mar;15(3):295–300

Effect of plasmin inhibitors on gastric mucosal permeability in rats. Yoo JK, et al. **Scand J Gastroenterol Suppl** 1989; 162:215–7

Effect of a highly selective plasma–kallikrein synthetic inhibitor on contact activation relating to kinin generation, coagulation and fibrinolysis. Wanaka K, et al. **Thromb Res** 1990 Mar 15;57(6):889–95

THERAPEUTIC USE

Benefits and risks of antifibrinolytic therapy in the management of ruptured intracranial aneurysms. A double–blind placebo–controlled study. Tsementzis SA, et al. **Acta Neurochir (Wien)** 1990;102(1–2):1–10

Fibrinolytic activity after subarachnoid haemorrhage and the effect of tranexamic acid. Tsementzis SA, et al. **Acta Neurochir (Wien)** 1990;103(3–4):116–21

A randomised, double–blind study of mebeverine versus dicyclomine in the treatment of functional abdominal pain in young adults. Grillage MG, et al. **Br J Clin Pract** 1990 May;44(5):176–9

Aurintricarboxylic acid in a canine model of coronary artery thrombosis. Strony J, et al. **Circulation** 1990 Mar; 81(3):1106–14

Cetraxate is not superior to placebo in the treatment of duodenal ulcer. Bianchi Porro G, et al. **J Clin Gastroenterol** 1990 Apr;12(2):234–6

Prophylactic tranexamic acid decreases bleeding after cardiac operations. Horrow JC, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):70–4

Short–term tranexamic acid treatment in aneurysmal subarachnoid hemorrhage. Wijdicks EF, et al. **Stroke** 1989 Dec;20(12):1674–9

Prevention of severe bleeding by tranexamic acid in a patient with disseminated intravascular coagulation. Takada A, et al. **Thromb Res** 1990 Apr 15;58(2):101–8

[Reduction of intra– and post–operative bleeding after treatment with a peptide fraction derived from bovine factor VIII] Tarantino V, et al. **Pediatr Med Chir** 1989 Nov–Dec;11(6):703–6 (Eng. Abstr.) **(Ita)**

[Chronic disseminated intravascular coagulation due to abdominal true aneurysm in two cases—effect of anti–platelet and anti–fibrinolytic therapy] Tomeoku M, et al. **Rinsho Ketsueki** 1989 Dec;30(12):2189–93 (Eng. Abstr.) **(Jpn)**

[Endoscopic hemostasis in hemorrhagic peptic ulcer. A review and pilot study of local thrombin injection combined with systemic fibrinolysis inhibition (with tranexamic acid)] Stallemo A, et al. **Tidsskr Nor Laegeforen** 1990 Feb 10;110(4):497–500 (21 ref.) (Eng. Abstr.) **(Nor)**

CYCLOHEXANES

Ventricular arrhythmogenic dose of epinephrine in dogs and cats anesthetized with tiletamine/zolazepam and halothane. Bednarski RM, et al. **Am J Vet Res** 1990 Sep;51(9):1468–70

Use of a tiletamine–zolazepam mixture to immobilise wild grey seals and southern elephant seals. Baker JR, et al. **Vet Rec** 1990 Jan 27;126(4):75–7

ADVERSE EFFECTS

Contact dermatitis from cyclohexanone–formaldehyde resin (L2 resin) in a hair lacquer spray. Heine A, et al. **Contact Dermatitis** 1990 Feb;22(2):108

ANALYSIS

Chiral synthon obtained with pig liver esterase: introduction of chiral centers into cyclohexene skeleton. Kobayashi S, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb;38(2):350–4

Selected–ion monitoring of 4–vinyl–1–cyclohexene in acrylonitrile–butadiene–styrene polymer products and food simulants. Tan S, et al. **J Chromatogr** 1989 Nov 17; 482(1):246–51

CHEMICAL SYNTHESIS

Inhibitors of the enkephalin degrading enzymes. Modulation of activity of hydroxamate containing compounds by modifications of the C–terminal residue. Xie J, et al. **Int J Pept Protein Res** 1989 Sep;34(3):246–55

Probes for narcotic receptor mediated phenomena. 17. Synthesis and evaluation of a series of trans–3,4–dichloro–N–methyl–N–[2–(1–pyrrolidinyl) cyclohexyl]benzeneacet amide (U50,488) related isothiocyanate derivatives as opioid receptor affinity ligands. de Costa BR, et al. **J Med Chem** 1990 Apr; 33(4):1171–6

Highly selective kappa–opioid analgesics. 3. Synthesis and structure–activity relationships of novel N–[2–(1–pyrrolidinyl)–4– or –5–substituted–cyclohexyl]arylacetamide derivatives. Halfpenny PR, et al. **J Med Chem** 1990 Jan;33(1):286–91

Cyclohexane diester analogues of phorbol ester as potential activators of protein kinase C. Kerr DE, et al. **J Med Chem** 1990 Jul;33(7):1958–62

Enantioselectivity of muscarinic antagonists. Isomeric 2–cyclohexyl–2–phenyl–5–[(dimethylamino)methyl]–1,3–oxathiolane 3–oxide methiodides. Romanelli MN, et al. **J Med Chem** 1989 Oct;32(10):2269–73

Structure activity studies of two classes of beta–amino–amides: the search for kappa–selective opioids. Loew G, et al. **NIDA Res Monogr** 1988;90:144–51

IMMUNOLOGY

Antibodies against (1R,2R)–cyclohexanediamineplatinum(II)–DNA adduct recognize the conformational differences of isomeric analogues of cyclohexanediamine. Yamada H, et al. **Biochim Biophys Acta** 1990 Jul 30;1049(3):298–302

METABOLISM

Urinary excretion of cyclohexanediol, a metabolite of the solvent cyclohexanone, by infants in a special care unit. Mills GA, et al. **Clin Chem** 1990 Jun;36(6):870–4

Compound I formation is a partially rate–limiting process in chloroperoxidase–catalyzed bromination reactions. Libby RD, et al. **J Biol Chem** 1990 Sep 5;265(25):14808–11

The affinity ligand "UPHIT" acylates kappa opioid binding sites in vivo. Band L, et al. **Prog Clin Biol Res** 1990; 328:77–80

PHARMACOLOGY

Modification of arginine residues in human growth hormone by 1,2–cyclohexanedione: effects on the binding capacity to lactogenic and somatogenic receptors. Atlasovich FM, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):1–5

Inhibition of Clostridium difficile toxin A and B by 1,2–cyclohexanedione modification of an arginine residue. Balfanz J, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1364–70

Chemical modification by pyridoxal 5'–phosphate and cyclohexane–1,2–dione indicates that Lys–7 and Arg–10 are involved in the p2 phosphate–binding subsite of bovine pancreatic ribonuclease A. Richardson RM, et al. **Biochem J** 1990 May 1;267(3):593–9

Combined effects of AY9944 and plasma LDL (or whole plasma) on lymphocyte blastic transformation. Rampini C, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3887–91

AY9944 inhibits early activation of phosphatidylinositol metabolism in concanavalin A–stimulated lymphocytes. Rampini C. **Biochem Pharmacol** 1990 Sep 15;40(6):1417–9

Muscarinic receptor antagonist activity of diacylglycerol lipase and kinase inhibitors. Sekar MC, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):2069–73

Effects of selected chemicals on the glutathione status in the male reproductive system of rats. Gandy J, et al. **J Toxicol Environ Health** 1990;29(1):45–57

Physiological and behavioral responses of gray wolves (Canis lupus) to immobilization with tiletamine and zolazepam. Kreeger TJ, et al. **J Wildl Dis** 1990 Jan;26(1):90–4

Brain glutathione and the anti–hypoxic effect of glutathione depletors in mice. Masukawa T, et al. **Jpn J Pharmacol** 1989 Sep;51(1):125–7

Dominant mutations causing alterations in acetyl–coenzyme A carboxylase confer tolerance to cyclohexanedione and aryloxyphenoxypropionate herbicides in maize. Parker WB, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7175–9

[The immobilization of wild equines with STH 2130 and tiletamine/zolazepam] Wiesner H, et al. **Tierarztl Prax** 1990 Apr;18(2):151–4 (Eng. Abstr.) **(Ger)**

POISONING

[Various molecular aspects of the mechanism of toxic effect of phthalimide derivatives] Ibragimov N, et al. **Gig Sanit** 1989 Jul;(7):78 **(Rus)**

TOXICITY

Effects of cyclohexane, an industrial solvent, on the yeast Saccharomyces cerevisiae and on isolated yeast mitochondria. Uribe S, et al. **Appl Environ Microbiol** 1990 Jul;56(7):2114–9

Induction of myelin–associated glycoprotein mRNA in experimental remyelination. Fujita N, et al. **Brain Res** 1990 Apr 9;513(1):152–5

Mouse skin ornithine decarboxylase induction and tumor promotion by cyclohexane. Gupta KP, et al. **Cancer Lett** 1990 Jun 15;51(3):227–33

Dermal toxicity and carcinogenicity of 4–vinyl–1–cyclohexene diepoxide in Fischer rats and B6C3F1 mice. Chhabra RS, et al. **Fundam Appl Toxicol** 1990 May;14(4):752–63

Toxicity of 4–vinyl–1–cyclohexene diepoxide after 13 weeks of dermal or oral exposure in rats and mice. Chhabra RS, et al. **Fundam Appl Toxicol** 1990 May;14(4):745–51

Cyclohexanone. **IARC Monogr Eval Carcinog Risks Hum** 1989;47:157–69 (65 ref.)

Fetal effects of inhalation exposure to cyclohexanone vapor in pregnant rats. Samimi BS, et al. **Toxicol Ind Health** 1989 Dec;5(6):1035–43

CYCLOHEXANOLS

Effects of tramadol in humans: assessment of its abuse potential. Preston KL, et al. **NIDA Res Monogr** 1989;95:392

ADMINISTRATION & DOSAGE

[Oral tramadol for extracorporeal shock wave lithotripsy] Wang KY, et al. **Ma Tsui Hsueh Tsa Chi** 1989 Dec; 27(4):341–8 (Eng. Abstr.) **(Chi)**

BLOOD

High–performance liquid chromatographic determination of the mucoregulatory drug CO/1408 in rat plasma and urine. Girometta MA, et al. **J Chromatogr** 1990 May 16; 507:227–34

METABOLISM

Cannabinoid receptor localization in brain. Herkenham M, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1932–6

PHARMACOKINETICS

Identification of metabolites of CP–55,940 formed in–vitro by mouse livers. Thomas BF, et al. **NIDA Res Monogr** 1989;95:287–8

PHARMACOLOGY

Effects of bepridil and CERM 4205 (ORG 30701) on the relation between cardiac cycle length and QT duration in healthy volunteers. Lecocq B, et al. **Am J Cardiol** 1990 Sep 1;66(5):636–41

Analgesic effect of tramadol in the rat. Dhasmana KM, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):289–93

Production, isolation and structure determination of a novel beta–glucosidase inhibitor, cyclophellitol, from Phellinus sp. Atsumi S, et al. **J Antibiot (Tokyo)** 1990 Jan;43(1):49–53

Inhibitory effect of a new alpha–glucosidase inhibitor on fatty liver in Zucker fatty rats. Inui Y, et al. **J Hepatol** 1990 Jan;10(1):62–8

THERAPEUTIC USE

Coexisting major depression and obsessive–compulsive disorder treated with venlafaxine [letter] Zajecka JM, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):152–3

The use of tramadol hydrochloride in the treatment of post–anesthetic shivering. Pausawasdi S, et al. **J Med Assoc Thai** 1990 Jan;73(1):16–20

Parenteral tramadol in postoperative pain relief. Wang JH,

et al. **Ma Tsui Hsueh Tsa Chi** 1989 Sep;27(3):283–6
[Clinical use of tramal in patients in the early postoperative period] Lebedeva RN, et al. **Anesteziol Reanimatol** 1989 Sep–Oct;(5):50–4 (Eng. Abstr.) **(Rus)**

TOXICITY

The morphogenesis of cyclohexylamine–induced testicular atrophy in the rat: in vivo and in vitro studies. Creasy DM, et al. **Exp Mol Pathol** 1990 Apr;52(2):155–69

URINE

Urinary excretion of cyclohexanediol, a metabolite of the solvent cyclohexanone, by infants in a special care unit. Mills GA, et al. **Clin Chem** 1990 Jun;36(6):870–4

CYCLOHEXANONES see under **CYCLOHEXANES**

CYCLOHEXIMIDE

[Effects of DEAE–dextran, centrifugation, cycloheximide and their combination on infection and growth of Chlamydia psittaci bird isolates] Miyake T, et al. **Kansenshogaku Zasshi** 1990 Jan;64(1):87–95 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

Acetoxycycloheximide and cycloheximide convert transformed morphology of ras–transformed cells to normal morphology. Ogawara H, et al. **J Antibiot (Tokyo)** 1989 Oct;42(10):1530–3

METABOLISM

Proton magnetic resonance study of cycloheximide–ribosome interactions. Mandiyan V, et al. **Biochem Int** 1990; 21(2):199–207

PHARMACOLOGY

Noradrenergic alterations in the brain stem of adult rats after a model perinatal insult. Bureŝová M, et al. **Act Nerv Super (Praha)** 1989 Oct;31(3):229–31
The mechanism of 2–chlorodeoxyadenosine–induced cell death. Wataya Y, et al. **Adv Exp Med Biol** 1989; 253B:227–34
Cycloheximide inhibits the induction of collagenase mRNA in chondrocytes exposed to synovial factors or recombinant interleukin–1. Lin CW, et al. **Agents Actions** 1989 Jun; 27(3–4):445–7
Rapid nongenomic inhibition of renal 25–hydroxyvitamin D3 1–hydroxylase by 1,25–dihydroxyvitamin D3. Dick IM, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):E272–7
Enhancement of tumor necrosis factor–induced endothelial cell injury by cycloheximide. Nolop KB, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):L123–9
Divergent effects of cycloheximide on the induction of class II and class III cytochrome P450 mRNAs in cultures of adult rat hepatocytes. Burger HJ, et al. **Arch Biochem Biophys** 1990 Sep;281(2):204–11
Cycloheximide blocks the retention of maternal experience in postpartum rats. Fleming AS, et al. **Behav Neural Biol** 1990 Jan;53(1):64–73
Effect of cycloheximide on palmitylation of PO protein of the peripheral nervous system myelin. Agrawal HC, et al. **Biochem J** 1989 Oct 1;263(1):173–7
Glucocorticoid–induced reduction of prostanoid synthesis in TPA–differentiated U937 cells is mainly due to a reduced cyclooxygenase activity. Koehler L, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1307–16
Similar effects of inhibin and cycloheximide on gonadotropin release in superfused pituitary cell cultures. Jakubowiak A, et al. **Biol Reprod** 1989 Sep;41(3):454–63
Phase shifting the circadian clock with cycloheximide: response of hamsters with an intact or a split rhythm of locomotor activity. Wollnik F, et al. **Brain Res** 1989 Sep 4;496(1–2):82–8
Cycloheximide–induced modulation of TNF–mediated cytotoxicity in sensitive and resistant ovarian tumor cells. Nio Y, et al. **Cancer Chemother Pharmacol** 1990;26(1):1–8
Cathepsin B secretion by rabbit articular chondrocytes: modulation by cycloheximide and glycosaminoglycans. Baici A, et al. **Cell Tissue Res** 1990 Mar;259(3):567–73
Ovulation blockade through synergism of cycloheximide with assorted anesthetics. Dickmann Z, et al. **Contraception** 1990 Feb;41(2):189–95
A stimulated S6 kinase from rat liver: identity with the mitogen activated S6 kinase of 3T3 cells. Kozma SC, et al. **EMBO J** 1989 Dec 20;8(13):4125–32
Glucocorticoid and cyclic adenosine 3'5'–monophosphate–mediated induction of cholesterol side–chain cleavage cytochrome P450 (P450scc) in MA–10 tumor Leydig cells. Increases in mRNA are cycloheximide sensitive. Hales DB, et al. **Endocrinology** 1990 Jun; 126(6):2800–8
Cycloheximide induces stromelysin mRNA in cultured human fibroblasts. Otani Y, et al. **Eur J Biochem** 1990 Aug 28;192(1):75–9
Dermal fibroblasts from Down's syndrome patients share a cycloheximide–induced deficiency in collagen adhesion responses with normal aging cells. Flickinger KS, et al. **Exp Cell Res** 1990 Aug;189(2):189–201
Aging–related changes and topology of adhesion responses sensitive to cycloheximide on collagen substrata by human dermal fibroblasts. Flickinger KS, et al. **Exp Cell Res** 1990 Jan;186(1):158–68
Death of serum–free mouse embryo cells caused by epidermal growth factor deprivation is prevented by cycloheximide, 12–O–tetradecanoylphorbol–13–acetate, or vanadate. Rawson C, et al. **Exp Cell Res** 1990 Jan;186(1):177–81
Interleukin 1– and tumor necrosis factor–stimulation of prostaglandin E2 synthesis in MDCK cells, and potentiation of this effect by cycloheximide. Leighton JD, et al. **FEBS Lett** 1990 Jan 1;259(2):289–92
Cloning by gene amplification of two loci conferring multiple drug resistance in Saccharomyces. Leppert G, et al. **Genetics** 1990 May;125(1):13–20
Effect of the administration of cycloheximide to thioacetamide–primed rats or partial–hepatectomized rats on the RNA polymerase I activity in isolated nuclei of liver. Suzuki N, et al. **Int J Biochem** 1989;21(10):1127–31
Acetoxycycloheximide and cycloheximide convert transformed morphology of ras–transformed cells to normal morphology. Ogawara H, et al. **J Antibiot (Tokyo)** 1989 Oct;42(10):1530–3
Induction by cycloheximide of the glycoprotein hormone alpha–subunit gene in human tumor cell lines and identification of a possible negative regulatory factor. Cox GS, et al. **J Biol Chem** 1990 Aug 5;265(22):13190–7
Induction and superinduction of auxin–responsive mRNAs with auxin and protein synthesis inhibitors. Franco AR, et al. **J Biol Chem** 1990 Sep 15;265(26):15845–9
Regulation of parathyroid hormone–related peptide gene expression by cycloheximide. Ikeda K, et al. **J Biol Chem** 1990 Apr 5;265(10):5398–402
Differential DNase I sensitivity of the two complementary nucleosomal DNA strands in cycloheximide–treated Ehrlich ascites tumor cells. Chipev CC, et al. **J Biomol Struct Dyn** 1987 Jun;4(6):1065–77
Centrosome duplication continues in cycloheximide–treated Xenopus blastulae in the absence of a detectable cell cycle. Gard DL, et al. **J Cell Biol** 1990 Jun;110(6):2033–42
Heat protectors and heat–induced preferential redistribution of 26 and 70 kDa proteins in Chinese hamster ovary cells. Lee YJ, et al. **J Cell Physiol** 1989 Dec;141(3):510–6
Non–specific elongation of cell cycle phases by cycloheximide in rat 3Y1 cells, and specific reduction of G1 phase elongation by simian virus 40 large T antigen. Okuda A, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):295–302
Induction of apoptosis (programmed cell death) in human leukemic HL–60 cells by inhibition of RNA or protein synthesis. Martin SJ, et al. **J Immunol** 1990 Sep 15; 145(6):1859–67
MHC class II–restricted presentation of native protein antigen by B cells is inhibitable by cycloheximide and brefeldin A. St.–Pierre Y, et al. **J Immunol** 1990 Aug 1; 145(3):812–8
Inhibition of protein synthesis prevents cell death in sensory and parasympathetic neurons deprived of neurotrophic factor in vitro. Scott SA, et al. **J Neurobiol** 1990 Jun; 21(4):630–8
Inhibition of protein synthesis during CNS myelination produces focal accumulations of membrane vesicles in oligodendrocytes. Cullen MJ, et al. **J Neurocytol** 1989 Dec; 18(6):763–74
Inhibition by protein kinase–C inhibitor and cycloheximide of phorbol ester– and epidermal growth factor–induced arachidonic acid metabolism in cultured porcine thyroid cells. Kasai K, et al. **Metabolism** 1990 Jul;39(7):709–13
Dexamethasone control of growth hormone mRNA levels in GH3 pituitary cells is cycloheximide–sensitive and primarily posttranscriptional. Strobl JS, et al. **Mol Cell Endocrinol** 1989 Sep;66(1):71–82
Inhibition of the adaptive response of human lymphocytes to very low doses of ionizing radiation by the protein synthesis inhibitor cycloheximide. Youngblom JH, et al. **Mutat Res** 1989 Dec;227(4):257–61
One trial conditioning with apomorphine is blocked by cycloheximide. Silverman PB, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):663–4
Regulation of mRNA abundance in activated T lymphocytes: identification of mRNA species affected by the inhibition of protein synthesis. Coleclough C, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1753–7
cAMP regulates P450scc gene expression by a cycloheximide–insensitive mechanism in cultured mouse Leydig MA–10 cells. Mellon SH, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7775–9
Control of lymphokine expression in T helper 2 cells. Muñoz E, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9461–4
The biogenesis of the cyanellae of Cyanophora paradoxa. II. Pulse–labelling of cyanellar polypeptides in the presence of transcriptional and translational inhibitors. Burnap RL, et al. **Proc R Soc Lond [Biol]** 1989 Oct 23;238(1290):73–87
Effect of indomethacin, cycloheximide, and aminoglutethimide on ovarian steroid and prostanoid levels during ovulation in the gonadotropin–primed immature rat. Espey LL, et al. **Prostaglandins** 1989 Nov;38(5):531–9
Induction of HSP27 phosphorylation and thermoresistance in Chinese hamster cells by arsenite, cycloheximide, A23187, and EGTA. Crête P, et al. **Radiat Res** 1990 Mar; 121(3):320–7
Cell killing, chromosomal aberrations, and division delay as thermal sensitivity is modified during the cell cycle. Dewey WC, et al. **Radiat Res** 1990 Jun;122(3):268–74
Effect of cycloheximide upon maturation of bovine oocytes. Simon M, et al. **Reprod Nutr Dev** 1989;29(5):533–40
Protein synthesis inhibition by cycloheximide does not affect the acute release of tissue–type plasminogen activator. Tranquille N, et al. **Thromb Haemost** 1989 Jun 30; 61(3):442–7
The influence of severity of bile flow reduction, cycloheximide, and methyl isobutyl ketone pretreatment on the kinetics of taurolithocholic acid disposition in the rat. Dahlström–King L, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):312–21
Decreased detection of class II major histocompatibility complex antigens on blood mononuclear cells from transplant recipients receiving immunosuppressive drugs: influence of cycloheximide and monensin. Dupont E, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):233–4
Transcriptional activation of the human immunodeficiency virus type 1 long terminal repeat by hepatitis B virus X–protein requires de novo protein synthesis. Twu JS, et al. **Virology** 1990 Jul;177(1):406–10
[DNA synthesis in the nuclei of stimulated NIH 3T3 cells in heterodikaryons obtained by the fusion of these cells with resting cells treated with cycloheximide] Setkov NA, et al. **Tsitologiia** 1989 Nov;31(11):1339–44 (Eng. Abstr.) **(Rus)**

TOXICITY

Effect of minaprine on cycloheximide–induced amnesia in mice. Nabeshima T, et al. **Eur J Pharmacol** 1989 Oct 10; 169(2–3):249–57
The effects of endotoxin pretreatment on subsequent challenge of mice with cycloheximide and a small dose of endotoxin. Parry EW. **J Comp Pathol** 1989 Nov; 101(4):381–8

CYCLOHEXYLAMINES

Cytotoxicity and antitumor activity of bis(platinum) complexes. A novel class of platinum complexes active in cell lines resistant to both cisplatin and 1,2–diaminocyclohexane complexes. Farrell N, et al. **J Med Chem** 1990 Aug;33(8):2179–84

ADMINISTRATION & DOSAGE

New antitumor platinum(II) complexes with both lipophilicity and water miscibility. Maeda M, et al. **Jpn J Cancer Res** 1990 Jun–Jul;81(6–7):567–9

CHEMICAL SYNTHESIS

Synthesis and anticonvulsant activity of 1–phenylcyclohexylamine analogues. Thurkauf A, et al. **J Med Chem** 1990 May;33(5):1452–8
[Plasma prostaglandins E, E2 and F2a in nasopharyngeal carcinoma (NPC)] Chen BS. **Chung Hua Chung Liu Tsa Chih** 1989 Jul;11(4):248–50 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Antibodies against (1R,2R)–cyclohexanediaminedichloroplatinum(II)–DNA adduct recognize the conformational differences of isomeric analogues of cyclohexanediamine. Yamada H, et al. **Biochim Biophys Acta** 1990 Jul 30;1049(3):298–302

PHARMACOKINETICS

Structure–distribution relationship studies of 99mTc–2,3–diamine complexes. Salako Q, et al. **Int J Rad Appl Instrum [B]** 1990;17(4):437–41

PHARMACOLOGY

Effect of the diaminocyclohexane carrier ligand on platinum adduct formation, repair, and lethality. Page JD, et al. **Biochemistry** 1990 Jan 30;29(4):1016–24
Studies on antifungal properties of phenol complexes with secondary amines. 1. The effect of complex formation of nitro– and chlorophenols with dicyclohexylamine on the antifungal activity in vitro. Pietr SJ, et al. **Mycoses** 1989 Jul;32(7):359–61
Studies on antifungal properties of phenol complexes with secondary amines. 2. Antifungal properties in vitro of the complex of 2,4,5–trichlorophenol with dicyclohexylamine. Witek R, et al. **Mycoses** 1989 Jul;32(7):362–3
Pathomorphological changes in rat brain choroid plexus due to administration of the amine–curing agent, bis(4–amino–3–methylcyclohexyl)methane. Shibata T, et al. **Virchows Arch [A]** 1990;417(3):203–12

THERAPEUTIC USE

Studies on antifungal properties of phenol complexes with secondary amines. 3. The antimycotic activity of the complex of 2,4,5–trichlorophenol with dicyclohexylamine in the treatment of experimental mycosis. Kubis A, et al. **Mycoses** 1989 Jul;32(7):364–8

TOXICITY

Assessment of the genotoxicity of calcium cyclamate and cyclohexylamine. Brusick D, et al. **Environ Mol Mutagen** 1989;14(3):188–99
The morphogenesis of cyclohexylamine–induced testicular

atrophy in the rat: in vivo and in vitro studies. Creasy DM, et al. **Exp Mol Pathol** 1990 Apr;52(2):155–69

Ultrastructural changes in rat Clara cells induced by bis(4–amino–3–methylcyclohexyl)methane. Ohshima S, et al. **J Toxicol Environ Health** 1989;28(2):249–55

CYCLOLEUCINE see under **AMINO ACIDS**

CYCLOOXYGENASE see **PROSTAGLANDIN SYNTHASE**

CYCLOPARAFFINS

ANALYSIS

[Analysis of musk rheumatic oil by GC/FTIR] Wu Q, et al. **Yao Hsueh Hsueh Pao** 1990;25(1):44–8 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

The partial opiate receptor agonists, dezocine and ciramadol act as mu receptor antagonists at the feline ileocecal sphincter. Ouyang A. **Life Sci** 1989;45(16):1491–7

Increased neuropeptide–converting enzyme activities in cerebrospinal fluid of opiate–tolerant rats. Persson S, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):318–22

CYCLOPENTANES

ANALYSIS

A simple chromatographic procedure for the detection of cyclized archaebacterial glycerol–bisdiphytanyl–glycerol tetraether core lipids. Trincone A, et al. **J Gen Microbiol** 1988 Dec;134 (Pt 12):3159–63

CHEMICAL SYNTHESIS

Preparation of chiral, highly functionalized cyclopentanes and its application to the synthesis of prostaglandin E1. Okano K, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug; 37(8):1995–8

Inhibitors of the enkephalin degrading enzymes. Modulation of activity of hydroxamate containing compounds by modifications of the C–terminal residue. Xie J, et al. **Int J Pept Protein Res** 1989 Sep;34(3):246–55

[Effect of 7–aza– and 13–aza–prostanoids on platelet aggregation] Kuz'mitskiĭ BB, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):45–8 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

KS–504 compounds, novel inhibitors of Ca2+ and calmodulin–dependent cyclic nucleotide phosphodiesterase from Mollisia ventosa. Nakanishi S, et al. **J Antibiot (Tokyo)** 1989 Dec;42(12):1775–83

METABOLISM

Role of the incorporation of (E)–5–(2–iodovinyl)–2'–deoxyuridine and its carbocyclic analogue into DNA of herpes simplex virus type 1–infected cells in the antiviral effects of these compounds. Balzarini J, et al. **Mol Pharmacol** 1990 Mar;37(3):402–7

PHARMACOLOGY

Brefeldin A arrests the intracellular transport of viral envelope proteins in primary cultured rat hepatocytes and HepG2 cells. Oda K, et al. **Biochem J** 1990 Jan 1; 265(1):161–7

Microtubule–dependent retrograde transport of proteins into the ER in the presence of brefeldin A suggests an ER recycling pathway. Lippincott–Schwartz J, et al. **Cell** 1990 Mar 9;60(5):821–36

Dynamic distribution of the Golgi marker thiamine pyrophosphatase is modulated by brefeldin A in rat hepatoma cells. Fujiwara T, et al. **Cell Struct Funct** 1989 Oct;14(5):605–16

Morphological effects of brefeldin A on the intracellular transport of secretory materials in parotid acinar cells. Yamashina S, et al. **Cell Struct Funct** 1990 Feb;15(1):31–7

Rapid turnover of low–density lipoprotein receptor by a non–lysosomal pathway in mouse macrophage J774 cells and inhibitory effect of brefeldin A. Shite S, et al. **Eur J Biochem** 1990 Jul 31;191(2):491–7

Uncoupling of ganglioside biosynthesis by Brefeldin A. van Echten G, et al. **Eur J Cell Biol** 1990 Feb;51(1):135–9

Potentiation of cytotoxicity and antitumor activity of adenosine analogs by the adenosine deaminase inhibitor adecypenol. Tanaka H, et al. **J Antibiot (Tokyo)** 1989 Nov; 42(11):1722–4

Compartmentation of the Golgi complex: brefeldin–A distinguishes trans–Golgi cisternae from the trans–Golgi network. Chege NW, et al. **J Cell Biol** 1990 Sep; 111(3):893–9

MHC class II–restricted presentation of native protein antigen by B cells is inhibitable by cycloheximide and brefeldin A. St.–Pierre Y, et al. **J Immunol** 1990 Aug 1; 145(3):812–8

Carbocyclic 5–iodo–2'–deoxyuridine (C–IDU) and carbocyclic (E)–5–(2–bromovinyl)–2'–deoxyuridine (C–BVDU) as unique examples of chiral molecules where the two enantiomeric forms are biologically active: interaction of the (+)– and (–)–enantiomers of C–IDU and C–BVDU with the thymidine kinase of herpes simplex virus type 1. Balzarini J, et al. **Mol Pharmacol** 1990 Mar; 37(3):395–401

Convulsant and anticonvulsant cyclopentanones and cyclohexanones. Holland KD, et al. **Mol Pharmacol** 1990 Jan;37(1):98–103

Inhibition by brefeldin A of presentation of exogenous protein antigens to MHC class II–restricted T cells. Adorini L, et al. **Nature** 1990 Jul 5;346(6279):63–6

Membranes. Violating the one–way system [news] Armstrong J, et al. **Nature** 1990 Mar 29;344(6265):383

Use of brefeldin A to define sites of glycosphingolipid synthesis: GA2/GM2/GD2 synthase is trans to the brefeldin A block. Young WW Jr, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6838–42

THERAPEUTIC USE

Selective cytotoxic activity of brefeldin A against human tumor cell lines. Ishii S, et al. **J Antibiot (Tokyo)** 1989 Dec; 42(12):1877–8

CYCLOPENTHIAZIDE see under **DIURETICS, THIAZIDE**

CYCLOPENTOLATE see under **PHENYLACETATES**

CYCLOPHOSPHAMIDE

Metabolism and pulmonary toxicity of cyclophosphamide. Patel JM. **Pharmacol Ther** 1990;47(1):137–46 (80 ref.)

ADMINISTRATION & DOSAGE

Efficacy of intracavitary administration of cyclophosphamide, interleukin–2 and lymphokine activated killer cells against established intraperitoneal tumor. Eggermont AM, et al. **Acta Med Austriaca** 1989; 16(3–4):47–50

Intermittent cyclophosphamide for the treatment of autoimmune thrombocytopenia in systemic lupus erythematosus. Boumpas DT, et al. **Ann Intern Med** 1990 May 1;112(9):674–7

Circulation of CD34+ hematopoietic stem cells in the peripheral blood of high–dose cyclophosphamide–treated patients: enhancement by intravenous recombinant human granulocyte–macrophage colony–stimulating factor. Siena S, et al. **Blood** 1989 Nov 1;74(6):1905–14

Bone marrow transplantation for advanced acute leukemia: a pilot study of high–energy total body irradiation, cyclophosphamide and continuous infusion etoposide. Bostrom B, et al. **Bone Marrow Transplant** 1990 Feb; 5(2):83–9

Bone marrow transplantation following busulfan and cyclophosphamide for acute myelogenous leukemia. Crilley P, et al. **Bone Marrow Transplant** 1990 Mar;5(3):187–91

Busulfan, cyclophosphamide and fractionated total body irradiation as a preparatory regimen for marrow transplantation in patients with advanced hematological malignancies: a phase I study. Petersen FB, et al. **Bone Marrow Transplant** 1989 Nov;4(6):617–23

Voluntary consumption of cyclophosphamide by Mrl mice. Grota LJ, et al. **Brain Behav Immun** 1989 Sep;3(3):263–73

Dose–intensive use of cyclophosphamide in ablation of neuroblastoma. Kushner BH, et al. **Cancer** 1990 Sep 15; 66(6):1095–100

Haematological recovery following high–dose cyclophosphamide with autologous bone marrow transplantation. Twelves C, et al. **Cancer Chemother Pharmacol** 1989;25(3):213–8

Induction of cytotoxicity from fresh splenocytes after in vivo administration of cyclophosphamide. Importance of long–term culture with high–dose recombinant interleukin–2. Kim R, et al. **Cancer Immunol Immunother** 1989;30(5):283–8

Busulfan and cyclophosphamide in allogeneic and autologous bone marrow transplantation [editorial; comment] Ahmed T. **Cancer Invest** 1989;7(5):521–2 Comment on: Cancer Invest 1989;7(5):509–13.

The role of busulfan/cyclophosphamide regimens in allogeneic and autologous bone marrow transplantation [see comments] Brodsky I, et al. **Cancer Invest** 1989; 7(5):509–13 Comment in: Cancer Invest 1989;7(5):521–2.

Effect of early and delayed difluoromethylornithine pretreatment upon cyclophosphamide chemotherapy. Johnson M, et al. **Clin Physiol Biochem** 1990;8(1):11–5

Single high doses of cyclophosphamide enable the collection of high numbers of hemopoietic stem cells from the peripheral blood. To LB, et al. **Exp Hematol** 1990 Jun; 18(5):442–7

Effects of cimetidine combination with cyclophosphamide in transplanted murine tumors. Khandalekar DD, et al. **Indian J Physiol Pharmacol** 1989 Jul–Sep;33(3):171–4

Intensification of acute Trypanosoma cruzi myocarditis in BALB/c mice pretreated with low doses of cyclophosphamide or gamma irradiation. Silva JS, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):33–9

In vivo distribution of adoptively transferred indium–111–labeled tumor infiltrating lymphocytes and peripheral blood lymphocytes in patients with metastatic melanoma. Griffith KD, et al. **J Natl Cancer Inst** 1989 Nov 15;81(22):1709–17

Postoperative immunotherapy of murine C1300–neuroblastoma. Fowler CL, et al. **J Pediatr Surg** 1990 Feb;25(2):229–37

The failure of intravenous cyclophosphamide therapy in refractory idiopathic inflammatory myopathy. Cronin ME, et al. **J Rheumatol** 1989 Sep;16(9):1225–8

Chronic inflammatory polyneuropathy complicating SLE: successful treatment with monthly oral pulse cyclophosphamide [letter] Sigal LH. **J Rheumatol** 1989 Nov;16(11):1518–9

Cyclophosphamide in non–resectable cystic hygroma [letter; comment] Dickerhoff R, et al. **Lancet** 1990 Jun 16; 335(8703):1474–5 Comment on: Lancet 1990 Mar 3;335(8688):511–2.

Granulocyte colony–stimulating factor and neutrophil recovery after high–dose chemotherapy and autologous bone marrow transplantation. Sheridan WP, et al. **Lancet** 1989 Oct 14;2(8668):891–5

High–dose chemotherapy with busulphan and cyclophosphamide and bone–marrow transplantation for drug–sensitive malignancies in adults: a preliminary report. Sheridan WP, et al. **Med J Aust** 1989 Oct 2;151(7):379–86 (40 ref.)

Cyclophosphane 'pulses' in three inbred strains of mice with experimental immune complex nephritis [letter] Samoilov DV, et al. **Nephron** 1990;55(3):338

Induction of remission in severe SLE after plasma exchange synchronized with subsequent pulse cyclophosphamide. Euler HH, et al. **Prog Clin Biol Res** 1990;337:319–20

Treatment of rapidly progressive glomerulonephritis by plasma exchange and methylprednisolone pulses. A prospective randomized trial of cyclophosphamide. Interim analysis. The French Cooperative Group. Rifle G, et al. **Prog Clin Biol Res** 1990;337:263–7

Is there a role for perioperative adjuvant cytotoxic therapy in the treatment of early breast cancer? Houghton J, et al. **Recent Results Cancer Res** 1989;115:54–61 (10 ref.)

Microscopic polyarteritis—a treatable cause of rapidly progressive renal failure due to necrotising glomerulonephritis. Seggie JL, et al. **S Afr Med J** 1990 Mar 3;77(5):254–9 (13 ref.)

The mega shot. Chee YC. **Singapore Med J** 1990 Feb; 31(1):15–6

Cyclophosphamide promotes rejection of MHC–matched fetal pancreas allografts in mice. Koulmanda M, et al. **Transplant Proc** 1989 Oct;21(5):3805–6

[Intermittent intravenous high–dose cyclophosphamide therapy for advanced prostatic cancer with distant metastasis] Kyakuno M, et al. **Hinyokika Kiyo** 1989 Nov; 35(11):1865–9 (Eng. Abstr.) **(Jpn)**

[The effect of donor specific blood transfusion (DST) on graft survival—intermittent coverage of cyclophosphamide] Kasai I, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Mar;81(3):367–71 (Eng. Abstr.) **(Jpn)**

[Comparison among three preconditioning regimens for allogeneic bone marrow transplantation in hematological malignancies] Minami S, et al. **Rinsho Ketsueki** 1990 May; 31(5):572–6 (Eng. Abstr.) **(Jpn)**

[A case of lupus nephritis resistant to steroid pulse therapy markedly improved by bolus intravenous cyclophosphamide therapy] Moriuchi J, et al. **Ryumachi** 1989 Aug;29(4):291–6 (Eng. Abstr.) **(Jpn)**

[Effectiveness of 3–drug therapy in patients with advanced ovarian cancer] Kwaśniewska–Rokicińska C, et al. **Ginekol Pol** 1989 Feb;60(2):86–9 (Eng. Abstr.) **(Pol)**

[Evaluation of the results of treating progresive multiple sclerosis with cyclophosphamide] Wajgt A, et al. **Neurol Neurochir Pol** 1988 Nov–Dec;22(6):518–23 (Eng. Abstr.) **(Pol)**

[Late results of the treatment of the chronic progressive form of multiple sclerosis by intensive immunosuppression] Wender M, et al. **Neurol Neurochir Pol** 1989 May–Jun; 23(3):188–92 (Eng. Abstr.) **(Pol)**

[Programs of immunosuppresive and anti–inflammatory treatment of primary idiopathic glomerulonephritis. I. Submicroscopic and focal segmental glomerulonephritis] Klinger M, et al. **Przegl Lek** 1989;46(10):744–9 **(Pol)**

[Programs of immunosuppressive and anti–inflammatory therapy of primary idiopathic glomerulonephritis. II. Membranous, membrano– proliferative and mesangial glomerulonephritis] Klinger M, et al. **Przegl Lek** 1989; 46(12):816–21 **(Pol)**

[Effectiveness of combined action of vitamins A, E and C and cyclophosphane or adriamycin on growth of transplanted tumors in mice] Mosienko VS, et al. **Eksp Onkol** 1990;12(3):55–7 (Eng. Abstr.) **(Rus)**

[Use of cytostatics deposited in cellulose acetate microspheres in the treatment of ovarian cancer] Rusakov IG, et al. **Sov Med** 1989;(10):37–9 **(Rus)**

[The initial experience of using pulse therapy with cyclophosphane and 6–methylprednisolone in patients with acute and subacute stages of nonspecific aortoarteritis] Pokrovskiĭ AV, et al. **Ter Arkh** 1990;62(1):43–6 (Eng. Abstr.) **(Rus)**

[The prevention of the side effects of cytostatics by administering them at various times of day] Efimov ML, et al. **Vopr Onkol** 1989;35(9):1068–71 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Tumor lysis syndrome after induction chemotherapy in small–cell lung carcinoma. Hussein AM, et al.

Am J Clin Oncol 1990 Feb;13(1):10–3
Safe handling of cyclophosphamide [letter] Thompson CA. Am J Hosp Pharm 1990 Jan;47(1):75–6
Nuclear aberrations in hair follicle cells of patients receiving cyclophosphamide. A possible in vivo assay for human exposure to genotoxic agents. Goldberg MT, et al. Arch Toxicol 1990;64(2):116–21
Infectious complications of cyclophosphamide treatment for vasculitis [letter; comment] Hoffman GS, et al. Arthritis Rheum 1989 Dec;32(12):1626–7 Comment on: Arthritis Rheum 1989 Jan;32(1):45–53.
Radionuclide ejection fractions in the evaluation of patients being considered for bone marrow transplantation: risk for cardiac toxicity. Bearman SI, et al. Bone Marrow Transplant 1990 Mar;5(3):173–7
Cardiac involvement in bone marrow transplantation: electrocardiographic changes, arrhythmias, heart failure and autopsy findings. Kupari M, et al. Bone Marrow Transplant 1990 Feb;5(2):91–8
Dexamethasone can potentiate the anti-emetic action of a 5HT3 receptor antagonist on cyclophosphamide induced vomiting in the ferret. Hawthorn J, et al. Br J Cancer 1990 Jan;61(1):56–60
Immunochemotherapy (thymostimulin/cyclophosphamide) in dogs. Montoya JA, et al. Br Vet J 1990 May–Jun; 146(3):249–54
Evaluation of carboprost tromethamine in the treatment of cyclophosphamide-induced hemorrhagic cystitis. Levine LA, et al. Cancer 1990 Jul 15;66(2):242–5
Long-term cardiac sequelae after treatment of malignant tumors with radiotherapy or cytostatics in childhood. Mäkinen L, et al. Cancer 1990 May 1;65(9):1913–7
Small testicles with impaired production of sperm in adult male survivors of childhood malignancies. Siimes MA, et al. Cancer 1990 Mar 15;65(6):1303–6
Cyclophosphamide and ifosfamide: role of uroprotective agents. Williams SD, et al. Cancer Invest 1990;8(2):269
The sonographic appearance of cyclophosphamide-induced acute haemorrhagic cystitis. Kumar A, et al. Clin Radiol 1990 Apr;41(4):289–90
Effect of mesna on cyclophosphamide. Garrick CL, et al. DICP 1989 Oct;23(10):798–9
A variant of the chemotherapy-associated erythrodysesthesia syndrome related to high-dose cyclophosphamide. Matsuyama JR, et al. DICP 1989 Oct;23(10):776, 778–9
High-dose cyclophosphamide in patients with operable breast cancer: recombinant human GM-CSF ameliorates drug-induced leukopenia and thrombocytopenia. Bregni M, et al. Haematologica 1990 Jan–Feb;75 Suppl 1:95–8
Recombinant human granulocyte-macrophage colony-stimulating factor reduces hematologic toxicity and widens clinical applicability of high-dose cyclophosphamide treatment in breast cancer and non-Hodgkin's lymphoma [see comments] Gianni AM, et al. J Clin Oncol 1990 May;8(5):768–78 Comment in: J Clin Oncol 1990 May;8(5):761–4.
Pregnancy after chemotherapy for gestational trophoblastic disease. Ayhan A, et al. J Reprod Med 1990 May; 35(5):522–4
Acute myelocytic leukemia after the use of cyclophosphamide in the treatment of polyarteritis nodosa. Escalante A, et al. J Rheumatol 1989 Aug;16(8):1147–9
Cystotomy, temporary urinary diversion and bladder packing in the management of severe cyclophosphamide-induced hemorrhagic cystitis. Andriole GL, et al. J Urol 1990 May; 143(5):1006–7
Treatment of radiation or cyclophosphamide induced hemorrhagic cystitis using conjugated estrogen. Liu YK, et al. J Urol 1990 Jul;144(1):41–3
RE: Urological complications of cyclophosphamide [letter; comment] Schootstra R. J Urol 1990 Jun;143(6):1237 Comment on: J Urol 1989 May;141(5):1063–9.
Bladder leiomyosarcoma following cyclophosphamide therapy for lupus nephritis. Thrasher JB, et al. J Urol 1990 Jan;143(1):119–21
Immune response of mallard ducks treated with immunosuppressive agents: antibody response to erythrocytes and in vivo response to phytohemagglutinin-P. Schrank CS, et al. J Wildl Dis 1990 Jul;26(3):307–15
Fatal hemorrhagic cystitis induced by pelvic irradiation and cyclophosphamide therapy. Case reports and review. Price WE, et al. Minn Med 1990 May;73(5):39–41, 44
Reversibility of the effects of chronic paternal exposure to cyclophosphamide on pregnancy outcome in rats. Hales BF, et al. Mutat Res 1990 Apr;229(2):129–34
Life-threatening acute hyponatraemia induced by low dose cyclophosphamide and indomethacin. Webberley MJ, et al. Postgrad Med J 1989 Dec;65(770):950–2
[Effect of negative ions on spontaneous and cyclophosphamide-induced micronucleus frequency in mouse bone marrow polychromatophilic erythroblasts] Xie L, et al. J Chuan Hsueh Pao 1988;15(5):368–73 (Eng. Abstr.) (Chi)
[Treatment of hemorrhagic cystitis caused by cyclophosphamide using intravesical instillation of potassium alum. Apropos of 5 cases] Gattegno B, et al. Ann Urol (Paris) 1990;24(3):190–2 (9 ref.) (Eng. Abstr.) (Fre)
[Cancer of the bladder after cystitis due to cyclophosphamide. Apropos of a case] Dore B, et al. J Urol (Paris) 1989;95(7):427–31 (42 ref.) (Eng. Abstr.) (Fre)
[Cancer of the bladder after treatment with cyclophosphamide. Apropos of a case and a review of the literature] Lupera H, et al. J Urol (Paris) 1990;96(1):48–52 (15 ref.) (Eng. Abstr.) (Fre)
[Effects of mesna (2-mercaptoethane sodium sulfonate) in children with malignant disease receiving oxazaphosphorine chemotherapy] Iwasaku-Fujimoto M, et al. Gan To Kagaku Ryoho 1990 Mar;17(3 Pt 1):403–6 (Eng. Abstr.) (Jpn)
[Incoercible hemorrhagic cystitis induced by pelvic radiotherapy and simultaneous treatment with cyclophosphamide] González Enguita C, et al. Actas Urol Esp 1990 Mar–Apr;14(2):128–31 (Eng. Abstr.) (Spa)

ANALOGS & DERIVATIVES

Mechanisms of in vitro immunosuppression by hepatocyte-generated cyclophosphamide metabolites and 4-hydroperoxycyclophosphamide. Kawabata TT, et al. Biochem Pharmacol 1990 Sep 1;40(5):927–35
Synergism between 4-hydroperoxycyclophosphamide and cisplatin: importance of incubation sequence and measurement of cisplatin accumulation. Peters RH, et al. Biochem Pharmacol 1990 Feb 1;39(3):607–9
Biotransformation of mafosfamide in P388 mice leukemia cells: intracellular 31P-NMR studies. Sonawat HM, et al. Biochim Biophys Acta 1990 Apr 9;1052(1):36–41
Role of interleukin-1 in 4-hydroperoxycyclophosphamide toxicity to bone marrow progenitor cells: a review. Moreb J, et al. Biotherapy 1989;1(4):273–80 (66 ref.)
The effects of tumor necrosis factor-alpha on early human hematopoietic progenitor cells treated with 4-hydroperoxycyclophosphamide. Moreb J, et al. Blood 1990 Aug 15;76(4):681–9
Bone marrow purging with mafosfamide—a critical survey. Sindermann H, et al. Blut 1989 Nov;59(5):432–41 (132 ref.)
Hemopoietic reconstitution after repeated autologous transplantation with mafosfamide-purged marrow. Beaujean F, et al. Bone Marrow Transplant 1989 Sep; 4(5):537–41
In vitro chemosensitivity of leukemic progenitor cells (AML-CFU) to a combination of mafosfamide lysine (ASTA-Z 7654) and etoposide (VP16-213). Deconinck E, et al. Bone Marrow Transplant 1990 Jan;5(1):13–8
In vitro evaluation of combination drug purging for autologous bone marrow transplantation. Jones RJ, et al. Bone Marrow Transplant 1990 May;5(5):301–7
The use of recombinant cytokines for enhancing immunohematopoietic reconstitution following bone marrow transplantation. II. The influence of lymphokines on CFU-GM colonies from human untreated, ASTA-Z or Campath-1M treated bone marrow. Mumcuoglu M, et al. Bone Marrow Transplant 1990 Mar;5(3):153–8
Autologous marrow transplantation in acute lymphoblastic leukemia: control of residual disease with mafosfamide and induction of syngeneic GVHD with cyclosporin. The Italian Mafosfamide Study Group. Rizzoli V, et al. Bone Marrow Transplant 1990 Jul;6 Suppl 1:76–8
Correlation of hematologic recovery with CFU-GM content of autologous bone marrow grafts treated with 4-hydroperoxycyclophosphamide. Culture after cryopreservation. Rowley SD, et al. Bone Marrow Transplant 1989 Sep;4(5):553–8
Possible role of acrolein in oxazaphosphorine-induced enhancement of immunological reactivity. Blomgren H, et al. Cancer Immunol Immunother 1990;31(4):221–5
In vitro chemopurification of neuroblastoma cells: comparison of 6-hydroxydopamine and ascorbic acid with 4-hydroperoxycyclophosphamide. Gulati SC, et al. Cancer Invest 1989;7(5):417–22
Depletion of cellular glutathione by N,N'-bis(trans-4-hydroxycyclohexyl)-N'-nitrosourea as a determinant of sensitivity of K562 human leukemia cells to 4-hydroperoxycyclophosphamide. Chresta CM, et al. Cancer Res 1990 Jul 1;50(13):4067–71
Synergistic cytotoxicity using 2'-deoxy-5-azacytidine and cisplatin or 4-hydroperoxycyclophosphamide with human tumor cells. Frost P, et al. Cancer Res 1990 Aug 1; 50(15):4572–7
Activity of intrathecal 4-hydroperoxycyclophosphamide in a nude rat model of human neoplastic meningitis. Fuchs HE, et al. Cancer Res 1990 Mar 15;50(6):1954–9
In vitro purging of human rhabdomyosarcoma cells using 4-hydroperoxycyclophosphamide. Ozkaynak MF, et al. Cancer Res 1990 Mar 1;50(5):1455–8
Effect of acrolein on phosphoramide mustard-induced sister chromatid exchanges in cultured human lymphocytes. Wilmer JL, et al. Cancer Res 1990 Aug 1;50(15):4635–8
Local administration of cytostatic drugs enhances delayed-type hypersensitivity to Sendai virus in mice. Limpens J, et al. Clin Immunol Immunopathol 1990 Jan; 54(1):161–5
Ex vivo treatment of myeloma cells by 4-HC, VP-16, LAK cells and antibodies. Gulati SC, et al. Eur J Haematol Suppl 1989;51:164–72
The role of interleukin 3 and interleukin 6 in the protection from 4-hydroperoxycyclophosphamide and the proliferation of early human hematopoietic progenitor cells. Moreb J, et al. Exp Hematol 1989 Nov;17(10):1022–7
Mafosfamide induces less sister chromatid exchange in Ph-positive cells than in normal bone marrow. Becher R, et al. Hamatol Bluttransfus 1990;33:133–6
Evidence of a role for NK cells in oxazaphosphorine-mediated tumor regression. Reissmann T, et al. J Cancer Res Clin Oncol 1989;115(6):525–30
Analysis of 4-hydroxycyclophosphamide by gas chromatography-mass spectrometry in plasma. Hong PS, et al. J Chromatogr 1989 Oct 27;495:131–8
Collagen gel cultures for detection of spared hematopoietic progenitors in Asta Z 7557 purged human marrows. Praloran V, et al. Leukemia 1990 Apr;4(4):282–6
Pharmacological-mediated purging with mafosfamide in acute and chronic myeloid leukemias. The Italian Study Group. Rizzoli V, et al. Prog Clin Biol Res 1990;333:21–36; discussion 37–8
Density-gradient separation for 4-hydroperoxycyclophosphamide purging of autologous bone marrow grafts. Rowley S, et al. Prog Clin Biol Res 1990;333:369–77
Relationship of DNA damage and embryotoxicity induced by 4-hydroperoxydechlorocyclophosphamide in postimplantation rat embryos. Little SA, et al. Teratology 1990 Feb;41(2):223–31
Effects of in vitro treatment with 4-hydroperoxycyclophosphamide and hyperthermia on leukemic progenitor cells. Minegishi N, et al. Tohoku J Exp Med 1989 Oct;159(2):101–11
Preservation of immature hematopoietic progenitor cells responding to interleukin 3 in marrow treated with 4-hydroperoxycyclophosphamide. Minegishi N, et al. Tohoku J Exp Med 1989 Oct;159(2):113–22
[Bone marrow autograft treated with mafosfamide in the acceleration phase in chronic myeloid leukemia. Inversion of the clinical development] Fouillard L, et al. Presse Med 1989 Nov 4;18(36):1785–8 (Eng. Abstr.) (Fre)
[Cellular cytotoxicity in the studies of immunosuppressive activity of drugs] Wąsik M, et al. Pol Arch Med Wewn 1988 Aug–Sep;80(2–3):105–12 (Eng. Abstr.) (Pol)

ANTAGONISTS & INHIBITORS

Protective effects of D-Trp6-luteinising hormone-releasing hormone microcapsules against cyclophosphamide-induced gonadotoxicity in female rats. Bokser L, et al. Br J Cancer 1990 Jun;61(6):861–5
Injurious effect of buthionine sulfoximine, an inhibitor of glutathione biosynthesis, on the lethality and urotoxicity of cyclophosphamide in mice. Ishikawa M, et al. Jpn J Pharmacol 1989 Sep;51(1):146–9
Chemoprotection of garlic extract toward cyclophosphamide toxicity in mice. Unnikrishnan MC, et al. Nutr Cancer 1990; 13(3):201–7

BLOOD

Mutagenic activity of metabolites contained in the plasma of Sprague-Dawley rats treated with cyclophosphamide. Arnsdorff-Roubicek D, et al. Mutat Res 1990 Apr; 243(4):309–12

DIAGNOSTIC USE

A comparison between regimens containing chemotherapy alone (busulfan and cyclophosphamide) and chemotherapy (V. RAPID) plus total body irradiation on marrow engraftment following allogeneic bone marrow transplantation. Reynolds M, et al. Eur J Haematol 1989 Oct;43(4):314–20

METABOLISM

Identification of local determinants of DNA interstrand crosslink formation by cyclophosphamide metabolites. Hausheer FH, et al. Anticancer Drug Des 1989 Dec; 4(4):281–94
Mechanisms of in vitro immunosuppression by hepatocyte-generated cyclophosphamide metabolites and 4-hydroperoxycyclophosphamide. Kawabata TT, et al. Biochem Pharmacol 1990 Sep 1;40(5):927–35
The uptake and metabolism of cyclophosphamide by the ovary. Ataya K, et al. Sel Cancer Ther 1990 Summer; 6(2):83–92
Biophysical investigations on L1210 mouse leukemia cells treated with activated cyclophosphamide metabolites: determination of selective properties of DNA-interstrand and DNA-protein cross-linking mechanisms (alkaline elution and 31P-NMR-spectroscopy) and some aspects of the combination drug and radiotherapy. Ulmer W. Strahlenther Onkol 1990 Feb;166(2):157–63
Binding of (chloroethyl 3H) cyclophosphamide to rat embryo proteins: two-dimensional gel analysis. Mirkes PE, et al. Teratology 1990 Feb;41(2):195–204

PHARMACOKINETICS

Stereoselective pharmacokinetics and metabolism of the enantiomers of cyclophosphamide. Preliminary results in humans and rabbits. Holm KA, et al. Biochem Pharmacol 1990 Apr 15;39(8):1375–84
A rapid in vitro method for the evaluation of potential antitumor drugs requiring metabolic activation by hepatic S9 enzymes. Lebsanft J, et al. Biochem Pharmacol 1989 Dec 15;38(24):4477–83
The CMF-regimen. Modulation of cyclophosphamide uptake and clearance by methotrexate and fluorouracil. De Bruijn EA, et al. Int J Cancer 1990 May 15;45(5):935–9

Pharmacokinetics of alkylating metabolites of cyclophosphamide in different strains of mice. Pukhalsky AL, et al. **Int J Immunopharmacol** 1990;12(2):217–23

Bioavailability of cyclophosphamide in the CMF regimen. Gheuens E, et al. **Onkologie** 1990 Jun;13(3):203–6

PHARMACOLOGY

Effect of serum fractions obtained from cancer patients by double filtration plasmapheresis combined with natural tumor necrosis factors and cyclophosphamide on murine pulmonary metastases. Uchida S, et al. **Acta Med Okayama** 1989 Dec;43(6):337–44

Effects of dazmegrel, piroxicam and cyclophosphamide on the NZB/W model of SLE. Archer RL, et al. **Agents Actions** 1989 Jun;27(3–4):369–74

Bleomycin and cyclophosphamide increase pulmonary type IV procollagen mRNA in mice. Hoyt DG, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):L47–52

TFX modulates the immunosuppressive effect of cyclophosphamide on antibody production in mice. Paczek L, et al. **Arch Immunol Ther Exp (Warsz)** 1989; 37(3–4):415–9

Potentiation of cyclophosphamide-induced enhancement of experimental metastasis by splenectomy. Strządała L, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3–4):399–403

Development and characterization of a cyclophosphamide-resistant subline of acute myeloid leukemia in the Lewis x Brown Norway hybrid rat. Koelling TM, et al. **Blood** 1990 Sep 15;76(6):1209–13

The effect of chemotherapy on the kinetics and proliferative capacity of normal and tumorous tissues in vivo. Rosenoff SH, et al. **Blood** 1975 Jan;45(1):107–18

Stem cell recovery from cyclophosphamide-induced myelosuppression requires the presence of CD4+ cells. Pantel K, et al. **Br J Haematol** 1990 Jun;75(2):168–74

Neuroleptic and anti-depressant drug treatment abolishes conditioned immunosuppression in mice. Gorczynski RM, et al. **Brain Behav Immun** 1989 Dec;3(4):312–9

Cyclophosphamide and abrogation of tumor-induced suppressor T cell activity. Hoover SK, et al. **Cancer Immunol Immunother** 1990;31(2):121–7

Mechanisms of cyclophosphamide action on hepatic P-450 expression. LeBlanc GA, et al. **Cancer Res** 1990 Sep 15; 50(18):5720–6

Synergistic interactions between cyclophosphamide or melphalan and VP-16 in a human rhabdomyosarcoma xenograft. Lilley ER, et al. **Cancer Res** 1990 Jan 15; 50(2):284–7

The expression of cytochrome P450IIB1 in Saccharomyces cerevisiae results in an increased mutation frequency when exposed to cyclophosphamide. Black SM, et al. **Carcinogenesis** 1989 Nov;10(11):2139–43

Combination chemo-immunotherapy: kinetics of in vivo and in vitro generation of natural killer cells and lymphokine-activated killer cells in the rat. Stewart LS, et al. **Clin Exp Immunol** 1990 Mar;79(3):416–23

Development of a leukocytopenic baby guinea pig model with azathioprine and cyclophosphamide. Kumar A, et al. **Comp Immunol Microbiol Infect Dis** 1989;12(4):91–4

Immunologic and clinical effects of cytotoxic drugs used in the treatment of rheumatoid arthritis and systemic lupus erythematosus. Fox DA, et al. **Concepts Immunopathol** 1989;7:20–78 (329 ref.)

The cofactor effect: varicocele and infertility. Peng BC, et al. **Fertil Steril** 1990 Jul;54(1):143–8

Cyclophosphamide-induced chimera-type tolerance to allografts: an overview of drug-induced immunological tolerance. Mayumi H, et al. **Fukuoka Igaku Zasshi** 1990 Jan;81(1):20–39 (212 ref.)

Cyclophosphamide- and testosterone-induced alteration in chicken bursal stroma identified by monoclonal antibodies. Wilson TJ, et al. **Immunology** 1990 Jun;70(2):241–6

Effects of in utero exposure to cyclophosphamide in mice. II. Assessment of immunocompetence of offspring from 5 to 10 weeks of age. Liakopoulou A, et al. **Immunopharmacol Immunotoxicol** 1989;11(2–3):193–209

Effects of cyclophosphamide on pigs infected and vaccinated with swinepox virus. Verma PC, et al. **Indian J Exp Biol** 1989 May;27(5):467–8

Increased drug cytotoxicity at reduced pH counteracts cyclophosphamide resistance in cultured rat mammary carcinoma cells. Jähde E, et al. **Int J Cancer** 1989 Dec 15;44(6):1082–7

The kinetics of recovery of leukocyte number and lymphocyte function following an injection of a single high dose of cyclophosphamide in C3H/HeJ mice. Moynihan J, et al. **Int J Immunopharmacol** 1989;11(5):517–27

Reconstitution of cytolytic alloreactivity with N-[4-[(4-fluorophenyl) sulfonyl]phenyl]acetamide (CL 259,763) in animals immunocompromised by cyclophosphamide. Wang BS, et al. **Int J Immunopharmacol** 1989;11(5):479–86

Induction by cyclophosphamide administration of two distinct anti-tumor effector cells at tumor site and spleen of mice transplanted with MOPC-104E plasmacytoma. Nio Y, et al. **J Clin Lab Immunol** 1989 May;29(1):37–43

Intrathymic clonal deletion of V beta 6+ T cells in cyclophosphamide-induced tolerance to H-2-compatible, Mls-disparate antigens. Eto M, et al. **J Exp Med** 1990 Jan 1;171(1):97–113

The effect of cyclophosphamide on the Peyer's patches in MRL1/1 and NZB/WF1 mice. Yoshioka H, et al. **J Exp Pathol** 1990 Spring;5(1):19–27

Sequential mechanisms of cyclophosphamide-induced skin allograft tolerance including the intrathymic clonal deletion followed by late breakdown of the clonal deletion. Eto M, et al. **J Immunol** 1990 Sep 1;145(5):1303–10

Drug induced modulation of immune responses in mice: effects of 5-(3,3-dimethyl-1-triazeno)-imidazole-4-carboxamide (DTIC) and cyclophosphamide (Cy). Giampietri A, et al. **J Immunopharmacol** 1978–79;1(1):61–86

Comparative effects of azathioprine, cyclophosphamide and frentizole on humoral immunity in mice. Smith SR, et al. **J Immunopharmacol** 1979;1(4):455–81

Comparative study of adjuvant induced arthritis in susceptible and resistant strains of rats. I. Effect of cyclophosphamide. Bersani-Amado CA, et al. **J Rheumatol** 1990 Feb;17(2):149–52

Cyclophosphamide-dependent lymph node modification in lymph node metastasis of MM48 tumor cells in syngeneic mice. Yoshida K, et al. **Jpn J Cancer Res** 1990 Mar; 81(3):253–8

Changes in the hormone receptors of human breast carcinoma xenografts in nude mice by treatment with cytotoxic agents. Koh J, et al. **Jpn J Surg** 1990 Jan;20(1):89–96

Relationship between the effect of cyclophosphamide on adjuvant arthritis severity, skin allograft rejection and spleen cell cytotoxic activity in rats. Marinova-Mutafchieva L, et al. **Methods Find Exp Clin Pharmacol** 1990 Mar;12(2):103–8

Comparison of single and multiple treatment regimens in the mouse bone marrow micronucleus assay for hydroquinone (HQ) and cyclophosphamide (CP). Adler ID, et al. **Mutat Res** 1990 Jun–Aug;234(3–4):115–23

The effect of agent dose and treatment time on the intercellular distribution of sister-chromatid exchanges induced by genotoxic agents in mouse bone marrow cells in vivo. Tice RR, et al. **Mutat Res** 1989 Nov;215(1):25–37

Activity of DMBA, DMH and CP in triple- and single-dose rodent bone-marrow micronucleus assays. Tinwell H, et al. **Mutat Res** 1990 Jun–Aug;234(3–4):195–8

Effects of cyclophosphamide and dexamethasone on mast cell populations in Hymenolepis microstoma-infected mice. Novak M, et al. **Parasitology** 1990 Apr;100 Pt 2:337–43

Comparison of transforming, antimitotic and chromosomal aberration-inducing properties of melphalan and cyclophosphamide. Chłopkiewicz B, et al. **Pol J Pharmacol Pharm** 1989 Jul–Aug;41(4):293–8

Acute changes in the bladder reservoir function after irradiation alone or in combination with chemotherapy: a matter of mouse strain. Lundbeck F, et al. **Scand J Urol Nephrol Suppl** 1989;125:141–7

Donor and donor organ pretreatment in cardiac allografts. Todd GJ, et al. **Surg Forum** 1978;29:362–4

Difference in B cell-induced transplantation tolerance to major histocompatibility complex antigens in irradiated and cyclophosphamide-treated chickens. Lehtonen L, et al. **Transplant Proc** 1990 Feb;22(1):123–4

Effect of N alpha-acetylmuramyl-L-alanyl-D-isoglutaminyl-N epsilon-stearoyl- L-lysine on resistance to herpes simplex virus type-1 infection in cyclophosphamide-treated mice. Ishihara C, et al. **Vaccine** 1989 Aug;7(4):309–13

[Effects of fu-zheng jie-du decoction and cyclophosphamidum on the production of tumor necrosis factor in mice] Wei Y. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jun;10(6):353–5, 326 (Eng. Abstr.) (Chi)

[Evaluation of the effects of ionizing radiation and cyclophosphamide on the bone marrow of mice, by counting non-nucleated and nucleated cells] Segreto RA, et al. **Rev Paul Med** 1989 Jul–Dec;107(4–6):233–8 (Eng. Abstr.) (Por)

[Elastase activity during growth and metastasis of tumors andthe pharmacological effects in C57Bl/6 mice] Chubinskaia SG. **Eksp Onkol** 1990;12(1):53–6 (Eng. Abstr.) (Rus)

[Modification of the carcinogenic effect of 3,4-benzpyrene by thymosin and cyclophosphane] Volegov AI, et al. **Vopr Onkol** 1989;35(11):1381–2 (Rus)

[Increase of lymphocytes producing antibodies against rabies virus, using intrasplenic adoptive transfer in mice treated with cyclophosphamide] Lara-Sagahon V, et al. **Arch Invest Med (Mex)** 1989 Jul–Sep;20(3):263–72 (Eng. Abstr.) (Spa)

[Interaction of immune complexes and their leukocyte receptors: regulation by the complement system and by cyclophosphamide] Isturiz MA, et al. **Medicina (B Aires)** 1989;49(2):140–6 (Eng. Abstr.) (Spa)

[Effect of cyclophosphamide on experimental infection of rats with 2 strains of the Junin virus] Galassi NV, et al. **Rev Argent Microbiol** 1981 May–Aug;13(2):69–76 (Eng. Abstr.) (Spa)

THERAPEUTIC USE

The Cancer Research Campaign trials of adjuvant therapy for early breast cancer. Baum M, et al. **Acta Oncol** 1989; 28(6):907–12

Perioperative adjuvant chemotherapy in breast cancer. The Scandinavian Adjuvant Chemotherapy Study 1. Kjellgren K, et al. **Acta Oncol** 1989;28(6):899–901

Bone marrow transplantation for severe aplastic anemia in children: conditioning with cyclophosphamide and total lymphoid irradiation. Lin KH, et al. **Acta Paediatr Sin** 1989 Jan–Feb;30(1):1–6

Treatment combining plasmapheresis and pulse cyclophosphamide in severe systemic lupus erythematosus. Schroeder JO, et al. **Adv Exp Med Biol** 1989;260:203–13

Effects of indomethacin, cyclosporin, cyclophosphamide, and placebo on collagen-induced arthritis of mice. Cannon GW, et al. **Agents Actions** 1990 Mar;29(3–4):315–23

Cyclophosphamide and 15(S)-15 methyl PGE1 correct the T/B lymphocyte ratios of NZB/NZW mice. Girard D, et al. **Agents Actions** 1990 Mar;29(3–4):333–41

VAD-based regimens as primary treatment for multiple myeloma. Alexanian R, et al. **Am J Hematol** 1990 Feb; 33(2):86–9

Electroconvulsive therapy and cyclophosphamide in combination for severe neuropsychiatric lupus with catatonia. Fricchione GL, et al. **Am J Med** 1990 Apr; 88(4):442–3

Cyclophosphamide: use in practice. Gershwin ME, et al. **Ann Intern Med** 1974 Apr;80(4):531–40 (139 ref.)

In vivo model systems for assessing an anti-cancer drug: responses of autochthonous and transplanted prostate tumors to cyclophosphamide. Pollard M, et al. **Anticancer Res** 1990 Jan–Feb;10(1):33–6

Transplantable mouse mammary adenocarcinoma 16/c as a model in experimental cancer therapy. III. Sensitivity to antitumor drugs. Rak J, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3–4):389–97

Transplantable mouse 16/c mammary adenocarcinoma as a model in experimental cancer therapy. II. Modification of tumór-host interactions by therapeutic procedures. Rak J, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3–4):379–88

Multicentric reticulohistiocytosis in a patient with malignant melanoma: a response to cyclophosphamide and a unique cutaneous feature. Kenik JG, et al. **Arthritis Rheum** 1990 Jul;33(7):1047–51

Therapeutic efficacy of sequential therapy with OK-432, cyclophosphamide, IL2-cultured lymphocytes and in vivo IL2 against advanced murine plasmacytoma. Kan N, et al. **Biotherapy** 1989;1(3):197–206

High-dose etoposide and cyclophosphamide without bone marrow transplantation for resistant hematologic malignancy. Brown RA, et al. **Blood** 1990 Aug 1; 76(3):473–9

High dose cyclophosphamide, BCNU and VP-16 with autologous blood stem cell support for refractory multiple myeloma. Ventura GJ, et al. **Bone Marrow Transplant** 1990 Apr;5(4):265–8

Combination chemotherapy and high-dose cyclophosphamide intensification for poor prognosis breast cancer. A Southwest Oncology Group Study. Ellis GK, et al. **Cancer** 1989 Dec 15;64(12):2409–15

The influence of Fluosol-DA and carbogen breathing on the antitumor effects of cyclophosphamide in vivo. Kim GE, et al. **Cancer Chemother Pharmacol** 1989;25(2):99–102

Therapeutic efficacy of human recombinant interleukin-2 (TGP-3) alone or in combination with cyclophosphamide and immunocompetent cells in allogeneic, semi-syngeneic, and syngeneic murine tumors. Ootsu K, et al. **Cancer Immunol Immunother** 1989;30(2):71–80

Effectiveness of peanut agglutinin-binding glyco-related antigen and cyclophosphamide on metastasis of Lewis lung carcinoma. Kiba M, et al. **Cancer Invest** 1989;7(3):237–42

Suppressor cell activity in a randomized trial of patients receiving active specific immunotherapy with melanoma cell vaccine and low dosages of cyclophosphamide. Hoon DS, et al. **Cancer Res** 1990 Sep 1;50(17):5358–64

Relationship between tumor size and curability of prostatic cancer by combined chemo-hormonal therapy in rats. Isaacs JT. **Cancer Res** 1989 Nov 15;49(22):6290–4

Immunosuppression with high doses of cyclophosphamide reduces the severity of myocarditis but increases the mortality in murine Coxsackievirus B3 myocarditis. Kishimoto C, et al. **Circulation** 1990 Sep;82(3):982–9

The suppressive effect of cyclophosphamide on low-dose streptozotocin-induced diabetes in mice. Yanagawa T, et al. **Diabetes Res** 1989 Oct;12(2):79–83

Cyclophosphamide therapy of idiopathic hepatic granulomatosis. Longstreth GF, et al. **Dig Dis Sci** 1989 Oct;34(10):1615–6

Large-scale collection of circulating haematopoietic progenitors in cancer patients treated with high-dose cyclophosphamide and recombinant human GM-CSF. Ravagnani F, et al. **Eur J Cancer** 1990;26(5):562–4

Influence of hormono- and/or chemotherapy on the MXT mouse mammary tumor as monitored by 31P MRS. Scheiber C, et al. **Eur J Cancer** 1990 Mar;26(3):241–51

Allogeneic bone marrow transplantation from HLA-identical siblings following conditioning with busulfan and cyclophosphamide. First results. Wiktor-Jedrzejczak W, et al. **Folia Haematol (Leipz)** 1989;116(3–4):403–8

Effect of the immune modulating agents cyclophosphamide, methotrexate, hydrocortisone, and cyclosporin A on an animal model of granulomatous bowel disease. Mitchell IC, et al. **Gut** 1990 Jun;31(6):674–8

Pharmacokinetics of intraperitoneal doxorubicin in combination with systemic cyclophosphamide and cis-platinum in the treatment of stage III ovarian cancer. Malviya VK, et al. **Gynecol Oncol** 1990 Feb;36(2):185–8

Randomized study of whole-abdomen irradiation versus pelvic irradiation plus cyclophosphamide in treatment of early ovarian cancer. Sell A, et al. **Gynecol Oncol** 1990

Jun;37(3):367–73
Dexamethasone–cyclophosphamide pulse therapy in pemphigus. Kaur S, et al. **Int J Dermatol** 1990 Jun; 29(5):371–4
Cyclophosphamide in relapsing remitting multiple sclerosis. D'Andrea F, et al. **Ital J Neurol Sci** 1990 Jun;11(3):271–4
Evidence of a role for NK cells in oxazaphosphorine–mediated tumor regression. Reissmann T, et al. **J Cancer Res Clin Oncol** 1989;115(6):525–30
Relapse in the central nervous system in melanoma patients successfully treated with biomodulators. Mitchell MS. **J Clin Oncol** 1989 Nov;7(11):1701–9
Protective effect of a low–dose of cyclophosphamide in experimental infection of guinea pigs with Junin virus. Ponzinibbio C, et al. **J Med Virol** 1989 Oct;29(2):146–51
Cyclophosphamide treatment of interstitial pulmonary fibrosis in polymyositis/dermatomyositis. al–Janadi M, et al. **J Rheumatol** 1989 Dec;16(12):1592–6
Single–drug chemotherapy of canine transmissible venereal tumor with cyclophosphamide, methotrexate, or vincristine. Amber EI, et al. **J Vet Intern Med** 1990 May–Jun;4(3):144–7
From the National Institutes of Health. Raub W. **JAMA** 1990 Jul 4;264(1):16
Active specific chemoimmunotherapy of lymph–node metastasis from a poorly immunogenic murine fibrosarcoma. Naito K, et al. **Jpn J Cancer Res** 1989 Nov; 80(11):1119–26
Cyclophosphamide for chronic relapsing thrombotic thrombocytopenic purpura [letter] Bird JM, et al. **Lancet** 1990 Sep 1;336(8714):565–6
Prevention of relapses in Wegener's granulomatosis by treatment based on antineutrophil cytoplasmic antibody titre. Cohen Tervaert JW, et al. **Lancet** 1990 Sep 22; 336(8717):709–11
Cyclophosphamide versus ifosfamide in paediatric oncology [letter] Kushner BH, et al. **Lancet** 1990 Jul 28; 336(8709):253–4
Host metaphases after chemoradiotherapy and allogeneic bone marrow transplantation for acute nonlymphoblastic leukemia. Przepiorka D, et al. **Leuk Res** 1989;13(8):661–5
Development of multiple carcinomas in a long term survivor of Wegener's granulomatosis treated with immunosuppressive drugs. Choy DS, et al. **N Y State J Med** 1989 Dec;89(12):680–2 (25 ref.)
Remission induced by chlorambucil in steroid–responsive, frequently relapsing nephrotic syndrome that relapsed after cyclophosphamide. Bailey RR. **N Z Med J** 1989 Jul 26; 102(872):379–81
Cyclophosphamide pulse therapy in frequently relapsing nephrotic syndrome [letter] Gandhi R, et al. **Nephron** 1990; 55(4):444
Treatment of rapidly progressive glomerulonephritis due to Behçet's syndrome with intravenous cyclophosphamide. Tietjen DP, et al. **Nephron** 1990;55(1):69–73 (18 ref.)
A case of Wegener's granulomatosis showing a dramatic response to corticosteroid and cyclophosphamide therapy—evaluation of anticytoplasmic antibodies (ACPA) in serum samples. Hirano K, et al. **Nippon Jinzo Gakkai Shi** 1990 Mar;32(3):339–44
Scleritis in relapsing polychondritis. Response to therapy. Hoang–Xuan T, et al. **Ophthalmology** 1990 Jul;97(7):892–8
Induction of immune tolerance in hemophiliacs with inhibitors by combined treatment with i.v. IgG, cyclophosphamide and factor VIII or IX. Nilsson IM, et al. **Prog Clin Biol Res** 1990;324:69–78
The role of adjuvant endocrine therapy in primary breast cancer. Baum M, et al. **Recent Results Cancer Res** 1989; 115:136–43
Cyclophosphamide effect on coccidioidomycosis in the rat. Remesar MC, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec;31(6):423–9
Cyclophosphamide use in a young woman with antiphospholipid antibodies and recurrent cerebrovascular accident. Perez MC, et al. **South Med J** 1989 Nov; 82(11):1421–4
Tumor recurrence after liver transplantation followed by high–dose cyclophosphamide, total body irradiation, and autologous bone marrow transplantation for treatment of metastatic liver disease. Margreiter R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2403–4
Quadruple immunosuppresive therapy in whole pancreas transplantation. Sollinger HW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2297–9
Synergistic effect of cyclosporine A, cyclophosphamide, and steroids in rabbit–to–rat skin xenotransplantation. Steinbruchel D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1168–70
[Chemotherapeutic intensification in germ cell tumors] Droz JP, et al. **Bull Cancer (Paris)** 1990;77(4):349–54 (Eng. Abstr.) (Fre)
[Immunosuppressive treatment of Behçet's syndrome. Long–term results] Martenet AC, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):40–2 (Eng. Abstr.) (Fre)
[Retractile mesenteritis. Diagnostic and therapeutic aspects] Trautwein C, et al. **Dtsch Med Wochenschr** 1990 Feb 2; 115(5):174–8 (Eng. Abstr.) (Ger)
[Treatment of chronic polyarthritis] Eujen R. **Med Monatsschr Pharm** 1989 Dec;12(12):388–9 (Ger)
[Cyclophosphamide therapy in multiple sclerosis] Schöffel M, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 May; 42(5):298–304 (26 ref.) (Ger)
[Therapy of vasculitis in children] Lietti D, et al. **Pediatr Med Chir** 1989 Mar–Apr;11 Suppl 1:63–72 (71 ref.) (Eng. Abstr.) (Ita)
[Experimental study on the optimal treatment schedule for combination of BRM (immunostimulators, cultured killer cells or interleukin–2) and chemotherapy] Kan N, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 1):1421–7 (Eng. Abstr.) (Jpn)
[Effect of modifiers of natural biological response on the functional activity of macrophages (oncological aspect)] Gromov SA, et al. **Antibiot Khimioter** 1990 Feb;35(2):29–33 (Eng. Abstr.) (Rus)
[Effects of cortiphen and cyclophosphamide in uterine sarcoma induced primarily by 1,2–dimethylhydrazine and estradiol dipropionate in CBA mice] Merkulova IB, et al. **Eksp Onkol** 1990;12(1):68–70 (Eng. Abstr.) (Rus)
[Functional status, myocardial metabolism and immunologic shifts in experimental myocardial infarction and its treatment with cyclophosphamide and 6–mercaptopurine] Aksel'rod LB, et al. **Fiziol Zh** 1989 Sep–Oct;35(5):65–8 (Eng. Abstr.) (Rus)
[Dynamics of Mycoplasma infection in patients with glomerulo– nephritis during pathogenetic therapy] Pyrig LA, et al. **Klin Med (Mosk)** 1989 Nov;67(11):105–8 (Eng. Abstr.) (Rus)

TOXICITY

Differentiation of cyclophosphamide–treated hamster secondary palate: ultrastructural and biochemical observations. Shah RM. **Am J Anat** 1990 Jan;187(1):1–11
Effects of ascorbic acid on the mouse embryo and on cyclophosphamide–induced cephalic DNA strand breaks in vivo. Pillans PI, et al. **Arch Toxicol** 1990;64(5):423–5
Role of the autonomic nervous system in cyclophosphamide–induced heart mitochondrial dysfunction in rats. Hanaki Y, et al. **Biochem Int** 1990; 21(2):289–95
Glutathione protects cardiac and skeletal muscle from cyclophosphamide–induced toxicity. Friedman HS, et al. **Cancer Res** 1990 Apr 15;50(8):2455–62
Protective effects of tumor necrosis factor on murine hematopoiesis during cycle–specific cytotoxic chemotherapy. Slørdal L, et al. **Cancer Res** 1990 Jul 15; 50(14):4216–20
Residual damage in mouse lungs at long intervals after cyclophosphamide treatment. Travis EL, et al. **Cancer Res** 1990 Apr 1;50(7):2139–45
Effects of prenatally administered cyclophosphamide on postnatal immunocompetence in mice. Dostál M, et al. **Folia Morphol (Praha)** 1989;37(3):290–301
Cytotoxic effects of cyclophosphamide in the mouse seminiferous epithelium: DNA flow cytometric and morphometric analysis. Toppari J, et al. **Fundam Appl Toxicol** 1990 Jul;15(1):44–52
Modulation of endoperoxide product levels and cyclophosphamide–induced injury by glutathione repletion. Cooper JA Jr, et al. **J Appl Physiol** 1989 Dec;67(6):2316–22
Effects of interleukin–3 on hematopoietic recovery after 5–fluorouracil or cyclophosphamide treatment of cynomolgus primates. Gillio AP, et al. **J Clin Invest** 1990 May;85(5):1560–5
Effects of cyclophosphamide on the secondary palate development in golden Syrian hamster: teratology, morphology, and morphometry. Shah RM, et al. **J Craniofac Genet Dev Biol** 1989;9(4):381–96
Retinoids as modulators of metabolism: their inhibitory effect on cyclophosphamide and 7,12–dimethylbenz[a]anthracene induced sister chromatid exchanges in a metabolically competent cell line. Cozzi R, et al. **Mutagenesis** 1990 Jul; 5(4):397–401
Cyclophosphamide in the F0 male rat: physical and behavioral changes in three successive adult generations. Auroux M, et al. **Mutat Res** 1990 Apr;229(2):189–200
Tumours and malformations in the adult offspring of cyclophosphamide–treated and control male rats—preliminary communication. Francis AJ, et al. **Mutat Res** 1990 Apr;229(2):239–46
Comparison of baseline sister–chromatid exchanges (SCE), cyclophosphamide–, ethylnitrosourea (ENU)–induced SCE, ENU–induced cell–cycle delay and chromosome aberrations between Peru and laboratory mice. Huang CC, et al. **Mutat Res** 1990 May;230(1):93–100
Increased frequency of 6–thioguanine–resistant lymphocytes in peripheral blood of workers employed in cyclophosphamide production. Hüttner E, et al. **Mutat Res** 1990 Feb;243(2):101–7
Malformed foetuses and karyotype abnormalities in the offspring of cyclophosphamide and allyl alcohol–treated male rats. Jenkinson PC, et al. **Mutat Res** 1990 Apr; 229(2):173–84
Induction of chromosome damage by benzo[a]pyrene, 2–aminofluorene and cyclophosphamide in the root cells of Vicia faba. Kanaya N. **Mutat Res** 1990 Feb;228(2):187–92
Interaction of Mesna (2–mercaptoethane sulfonate) with the mutagenicity of cyclophosphamide in vitro and in vivo. Lähdetie J, et al. **Mutat Res** 1990 Sep;245(1):27–32
Cytochrome P–450 and chromosome damage by cyclophosphamide in LEC strain rats predisposed to hereditary hepatitis and liver cancer. Masuda R, et al. **Mutat Res** 1990 Aug;244(4):309–16
Chromosome aberration test and sister–chromatid exchange assay in murine bone marrow cells after in vivo exposure to D–penicillamine alone or combined with cyclophosphamide. Nair ND, et al. **Mutat Res** 1989 Dec; 227(4):237–40
Hydrocephalus induced by cyclophosphamide in chick embryos. Singh SN, et al. **Neurosurgery** 1990 Jul; 27(1):103–5
Modification of cyclophosphamide–induced urotoxicity by buthionine sulfoximine and disulfiram in mice. Ishikawa M, et al. **Res Commun Chem Pathol Pharmacol** 1989 Aug; 65(2):265–8
Chemotherapy–induced premature ovarian failure: mechanisms and prevention. Ataya K, et al. **Steroids** 1989 Dec;54(6):607–26
Cell cycle alterations and cell death in cyclophosphamide teratogenesis. Chernoff N, et al. **Teratogenesis Carcinog Mutagen** 1989;9(4):199–209
Micronucleus formation by benzene, cyclophosphamide, benzo(a)pyrene, and benzidine in male, female, pregnant female, and fetal mice. Harper BL, et al. **Teratogenesis Carcinog Mutagen** 1989;9(4):239–52
Toxic effects of cyclophosphamide in differentiating chicken limb bud cell culture using rat liver 9,000 g supernatant or rat liver cells as an activation system: an in vitro short–term test for proteratogens. Wiger R, et al. **Teratology** 1989 Dec;40(6):603–13
Effect of methoxyethanol, cyclophosphamide and cadmium on metallothionein levels during prenatal development in the mouse. Muñoz C, et al. **Toxicol Lett** 1990 Feb; 50(2–3):263–74
Susceptibility to cyclophosphamide and thalidomide of fetal rat limb buds grafted in athymic (nude) mice. Shiota K, et al. **Toxicol Lett** 1990 Feb;50(2–3):309–18
[Influence of 6,7–dimethoxycoumarin on toxicity and pharmacodynamics of cyclophosphamide] Wan YD, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):79–85 (Eng. Abstr.) (Chi)
[Cytostatic treatment of the male rat: effects on offspring and protection by initial hormonal treatment] Dulioust E, et al. **C R Acad Sci [III]** 1989;309(4):137–42 (Eng. Abstr.) (Fre)
[The action of cyclophosphane in different morphological variants of glomerulonephritis in mice] Samollov DV, et al. **Arkh Patol** 1990;52(4):53–7 (Eng. Abstr.) (Rus)
[The induction of latent liver damage by cyclophosphamide] Kropačová K, et al. **Biull Eksp Biol Med** 1989 Jun; 107(6):756–8 (Eng. Abstr.) (Rus)
[Effect of fasting and elemental carbohydrate feeding on the liver resistance to the action of cytostatics] Kozlov SA, et al. **Gematol Transfuziol** 1990 May;35(5):12–4 (Eng. Abstr.) (Rus)
[Cyto and genotoxic effect of some environmental contaminants on spermatogenesis] Lafuente–Indo N. **Arch Biol Med Exp (Santiago)** 1989 Apr;22(1):69–75 (31 ref.) (Spa)

URINE

[Urinary excretion of mutagens and cisplatin among the nursing staff at a medical oncology department exposed to cytostatic drugs] Clonfero E, et al. **Med Lav** 1989 Sep–Oct;80(5):412–9 (Eng. Abstr.) (Ita)

CYCLOPLEGICS see **MYDRIATICS**

CYCLOPROPANES

ADMINISTRATION & DOSAGE

Pooling two controlled comparisons of milnacipran (F2207) and amitriptyline in endogenous inpatients. A new approach in dose ranging studies. von Frenckell R, et al. **Int Clin Psychopharmacol** 1990 Jan;5(1):49–56
[Treatment of alopecia areata of the eyebrow with diphenylcyclopropenone and its possible risks] Lutz G, et al. **Z Hautkr** 1989 Oct 15;64(10):898–900 (Eng. Abstr.) (Ger)

ADVERSE EFFECTS

Contact urticaria during topical immunotherapy. Tosti A, et al. **Contact Dermatitis** 1989 Sep;21(3):196–7
Vitiligo and topical allergens [letter; comment] Orecchia G, et al. **Dermatologica** 1989;179(3):137–8 Comment on: Dermatologica 1988;177(3):146–8.
Erythema multiforme–like eruptions: a rare side effect of topical immunotherapy with diphenylcyclopropenone. Perret CM, et al. **Dermatologica** 1990;180(1):5–7

ANALYSIS

Hypoglycin A content in the aril, seeds, and husks of ackee fruit at various stages of ripeness. Chase GW Jr, et al. **J Assoc Off Anal Chem** 1990 Mar–Apr;73(2):318–9

METABOLISM

Methane monooxygenase catalyzed oxygenation of 1,1–dimethylcyclopropane. Evidence for radical and carbocationic intermediates. Ruzicka F, et al. **Biochemistry** 1990 Feb 20;29(7):1696–700

PHARMACOLOGY

Tedisamil inactivates transient outward K+ current in rat ventricular myocytes. Dukes ID, et al. **Am J Physiol** 1989

Nov;257(5 Pt 2):H1746-9
Monoamine uptake inhibition by plasma from healthy volunteers after single oral doses of the antidepressant milnacipran. Palmier C, et al. **Eur J Clin Pharmacol** 1989; 37(3):235-8
Serotonin autoreceptor subsensitivity and antidepressant activity. Moret C, et al. **Eur J Pharmacol** 1990 May 16; 180(2-3):351-6
Tedisamil blocks the transient and delayed rectifier K+ currents in mammalian cardiac and glial cells. Dukes ID, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):560-9
Block by a putative antiarrhythmic agent of a calcium-dependent potassium channel in cultured hippocampal neurons. McLarnon JG. **Neurosci Lett** 1990 May 4;112(2-3):210-5
Effects of stereoselective 5-HT1A agonists on male rat sexual behavior. Ahlenius S, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):691-5
Mechanisms of enzyme inhibition by hypoglycin, methylenecyclopropylglycine and their metabolites. Ghisla S, et al. **Prog Clin Biol Res** 1990;321:185-92
Hypoglycin and Jamaican vomiting sickness. Tanaka K, et al. **Prog Clin Biol Res** 1990;321:167-84 (45 ref.)

THERAPEUTIC USE

Alopecia areata treated with diphencyprone: is an allergic response necessary? [letter] Hull SM, et al. **Br J Dermatol** 1990 May;122(5):716-7
Induction of hair growth in alopecia totalis with diphencyprone sensitization. Monk B. **Clin Exp Dermatol** 1989 Mar;14(2):154-7
Double-blind placebo-controlled study of milnacipran in hospitalized patients with major depressive disorders. Macher JP, et al. **Neuropsychobiology** 1989;22(2):77-82

TOXICITY

Selective inactivation of various acyl-CoA dehydrogenases by (methylenecyclopropyl)acetyl-CoA. Ikeda Y, et al. **Biochim Biophys Acta** 1990 Apr 19;1038(2):216-21

CYCLORPHAN see under **MORPHINANS**

CYCLOSERINE

PHARMACOLOGY

D-cycloserine acts as a partial agonist at the glycine modulatory site of the NMDA receptor expressed in Xenopus oocytes. Watson GB, et al. **Brain Res** 1990 Feb 26;510(1):158-60
D-cycloserine, a positive modulator of the N-methyl-D-aspartate receptor, enhances performance of learning tasks in rats. Monahan JB, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):649-53
[Evaluation of cycloserine in the treatment of infections caused by nontuberculous mycobacteria viewed from in vitro experiments] Tsukamura M. **Kekkaku** 1989 May; 64(5):345-9 (Eng. Abstr.) **(Jpn)**

CYCLOSPORIN A see **CYCLOSPORINS**

CYCLOSPORINES see **CYCLOSPORINS**

CYCLOSPORINS

Four years' experience with cyclosporin A in pediatric kidney transplantation. Hoyer PF, et al. **Acta Paediatr Scand** 1990 Jun-Jul;79(6-7):622-9
Effects of chronic volume expansion and enalapril on chronic cyclosporine nephropathy. Gillum DM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F934-9
1H NMR studies on bovine cyclophilin: preliminary structural characterization of its complex with cyclosporin A. Heald SL, et al. **Biochemistry** 1990 May 8; 29(18):4466-78
Interaction of cyclosporin A with dipalmitoylphosphatidylcholine. Wiedmann TS, et al. **Biochim Biophys Acta** 1990 Mar 30;1023(1):12-8
On the dependence of molecular conformation on the type of solvent environment: a molecular dynamics study of cyclosporin A. Lautz J, et al. **Biopolymers** 1990 Oct-Nov; 29(12-13):1669-87
Cyclosporine A. Gupta AK, et al. **Clin Dermatol** 1989 Jul-Sep;7(3):98-110 (101 ref.)
Effector mechanisms in cyclosporine A-induced syngeneic graft-versus-host disease. Role of CD4+ and CD8+ T lymphocyte subsets. Hess AD, et al. **J Immunol** 1990 Jul 15;145(2):526-33
Chronic cyclosporine-induced autoimmune disease in the rat: a new experimental model for scleroderma. Bos GM, et al. **J Invest Dermatol** 1989 Nov;93(5):610-5
Crystallization and preliminary X-ray investigation of a complex between a Fab fragment and its antigen, cyclosporin. Altschuh D, et al. **J Mol Biol** 1989 Sep 5; 209(1):177-8
Molecular cloning of a complementary DNA to rat cyclophilin-like protein mRNA. Iwai N, et al. **Kidney Int** 1990 Jun;37(6):1460-5
The gene for cyclophilin (peptidyl-prolyl cis-trans isomerase) from Schizosaccharomyces pombe. de Martin R, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4917
Cyclosporine-induced autoimmunity in rats carrying thymus allografts. Babcock SK, et al. **Transplantation** 1990 Aug; 50(2):278-81
A novel sulphate conjugate of cyclosporine occurring in high concentrations in vivo. Johansson A, et al. **Transplantation** 1990 Mar;49(3):619-22
Effect of cyclosporine adherent to tissue culture plates on in vitro immunological studies. Reisman L, et al. **Transplantation** 1989 Nov;48(5):872-4

ADMINISTRATION & DOSAGE

Ciclosporin administration during pregnancy induces ultrastructural changes on pancreatic beta-cells of newborn rats. Papaccio G, et al. **Acta Anat (Basel)** 1990; 137(4):336-41
Cyclosporin in psoriasis. A long-term randomized study on 37 patients. Dubertret L, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:136
Long-term treatment of severe psoriasis with low-dose cyclosporin: (2.5 mg/kg/day to 5 mg/kg/day). Frappaz A, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:147
Intralesional cyclosporin in psoriasis. Powles AV, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:148-9; discussion 149-50
Cyclosporin for refractory aplastic anemia [letter] Dundar S, et al. **Acta Haematol (Basel)** 1990;83(2):112
Adult height achieved in children after kidney transplantation. Aschendorff C, et al. **Am J Dis Child** 1990 Oct;144(10):1138-41
Evaluation of kidney function in renal transplant patients receiving long-term cyclosporine. Slomowitz LA, et al. **Am J Kidney Dis** 1990 Jun;15(6):530-4
Clinical and lymphohematologic responses after bone marrow transplantation in sibling and unrelated donor-recipient pairs of cats. Cain JL, et al. **Am J Vet Res** 1990 May;51(5):839-44
Efficacy of oral cyclosporine given prior to liver transplantation. Brown MR, et al. **Anesth Analg** 1989 Dec; 69(6):773-5
Cyclosporin A in psoriatic arthritis: an open study. Steinsson K, et al. **Ann Rheum Dis** 1990 Aug;49(8):603-6
Cyclosporin A administration in dermatology: once a day or in fractional doses? Korstanje MJ. **Arch Dermatol Res** 1990;281(8):536-7
Combination of cyclosporine and methotrexate for prophylaxis of acute graft versus host disease after allogeneic bone marrow transplantation for leukaemias. Mrsić M, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 3:95-6
Minimal risk of chronic renal dysfunction in marrow transplant recipients treated with cyclosporine for 6 months. Yee GC, et al. **Bone Marrow Transplant** 1989 Nov; 4(6):691-4
Generalized pustular psoriasis in relation to withdrawal of cyclosporin A [letter] Heidenheim M, et al. **Br J Dermatol** 1990 May;122(5):719
Oral cyclosporin A in the treatment of psoriasis: an overview of studies performed in The Netherlands. Meinardi MM, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:27-31 (13 ref.)
Renal function after long-term low-dose cyclosporin for psoriasis. Powles AV, et al. **Br J Dermatol** 1990 May; 122(5):665-9
Efficacy of low-dose cyclosporin A in psoriasis: results of dose-finding studies. Timonen P, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:33-9
Long-term cyclosporin therapy may decrease the risk of chronic graft-versus-host disease [letter; comment] Lönnqvist B, et al. **Br J Haematol** 1990 Apr;74(4):547-8 Comment on: Br J Haematol 1989 Aug;72(4):567-72.
Enteric solid dispersion of cyclosporin A (CyA) having potential to improve availability of CyA in rabbit. Takada K, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2542-4
Indicators of acute renal-transplant rejection in patients treated with cyclosporine. Mueller PW, et al. **Clin Chem** 1990 May;36(5):759-64
Concentration dependency of cyclosporin and chloroquine as inhibitors of cell proliferation and immunoglobulin production upon mitogen stimulation of mononuclear cells. Van Loenen HJ, et al. **Clin Exp Rheumatol** 1990 Jan-Feb; 8(1):59-61
In vivo beneficial effects of cyclosporin A and 1,25-dihydroxyvitamin D3 on the induction of experimental autoimmune thyroiditis. Fournier C, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):53-63
Direct vascular effects in the rat of the vehicles used for the intravenous and oral administration of cyclosporin A. Amorena C, et al. **Clin Sci** 1990 Aug;79(2):149-54
The collagen shield. A new vehicle for delivery of cyclosporin A to the eye. Reidy JJ, et al. **Cornea** 1990 Jul;9(3):196-9
Lipoprotein-induced modulation of cyclosporine-A-mediated immunosuppression. Rödl S, et al. **Eur J Clin Invest** 1990 Jun;20(3):248-52
Cyclosporine in Crohn's disease--low doses won't do it. Elson CO. **Gastroenterology** 1990 May;98(5 Pt 1):1383-4
Local administration of cyclosporin allows reduction of the dose prolonging survival of heart tissue allografts. Górecki D, et al. **Immunol Lett** 1990 Feb;23(4):247-9
Influence of cyclosporin A and alpha-difluoromethylornithine, an inhibitor of polyamine biosynthesis, on two rodent T-cell cancers in vivo. Smart LM, et al. **Int J Cancer** 1989 Dec 15;44(6):1069-73
Successful pregnancy in a renal transplant recipient taking cyclosporin A: hormonal and immunological studies. Salamalekis EE, et al. **Int J Gynaecol Obstet** 1989 Nov; 30(3):267-70
Murine CD8+ T cell helper function is particularly sensitive to cyclosporine suppression in vivo. Auchincloss H Jr, et al. **J Immunol** 1989 Dec 15;143(12):3940-3
Unsatisfactory effect of cyclosporin A treatment in Crohn's disease: a report of five cases. Löfberg R, et al. **J Intern Med** 1989 Sep;226(3):157-61
The effects of prophylactic cyclosporin A on experimental allergic neuritis (EAN) in the Lewis rat. Induction of relapsing EAN using low dose cyclosporin A. McCombe PA, et al. **J Neuroimmunol** 1990 Jul;28(2):131-40
Immunosuppression after heart transplantation: prednisone and cyclosporine with and without azathioprine. Casale AS, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):951-5
Cyclosporine-ketoconazole combination offers promise in reducing antirejection therapy costs [news] Randall T. **JAMA** 1990 Jul 25;264(4):430-1
Cyclosporin wash for oral lichen planus [letter] Eisen D, et al. **Lancet** 1990 Mar 3;335(8688):535-6
Concomitant administration of cyclosporin and ketoconazole in renal transplant recipients [see comments] First MR, et al. **Lancet** 1989 Nov 18;2(8673):1198-201 Comment in: Lancet 1990 Jan 13;335(8681):109-10.
Concomitant cyclosporin and ketoconazole [letter; comment] Frey FJ. **Lancet** 1990 Jan 13;335(8681):109-10 Comment on: Lancet 1989 Nov 18;2(8673):1198-201.
Low-dose cyclosporin versus placebo in patients with rheumatoid arthritis. Tugwell P, et al. **Lancet** 1990 May 5;335(8697):1051-5
Effect of topical cyclosporine rinse on oral lichen planus. A double-blind analysis. Eisen D, et al. **N Engl J Med** 1990 Aug 2;323(5):290-4
Prevention of acute graft rejection by the prostaglandin E1 analogue misoprostol in renal-transplant recipients treated with cyclosporine and prednisone [see comments] Moran M, et al. **N Engl J Med** 1990 Apr 26;322(17):1183-8 Comment in: N Engl J Med 1990 Apr 26;322(17):1224-6.
Small-bowel length and the dose of cyclosporine in children after liver transplantation. Whitington PF, et al. **N Engl J Med** 1990 Mar 15;322(11):733-8
Cyclosporin requirement during pregnancy in renal transplant recipients. Biesenbach G, et al. **Nephrol Dial Transplant** 1989;4(7):667-9
Cyclosporine administration practices on bone marrow transplant units: a national survey. Caudell KA, et al. **Oncol Nurs Forum** 1990 Jul-Aug;17(4):563-8
Topical cyclosporine administration in rabbits. Stokar LM, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr; 68(1):117-20
Hope for successful xenografting by immunosuppression with monoclonal antibody against CD4, total lymphoid irradiation and cyclosporine. Six months' survival of hamster heart transplanted into rat. Kemp E, et al. **Scand J Urol Nephrol** 1990;24(1):79-80
The mega shot. Chee YC. **Singapore Med J** 1990 Feb; 31(1):15-6
Topical delivery of ciclosporin: evaluation of various formulations using in vitro diffusion studies in hairless mouse skin. Egbaria K, et al. **Skin Pharmacol** 1990;3(1):21-8
Aerosolized cyclosporine as single-agent immunotherapy in canine lung allografts. Dowling RD, et al. **Surgery** 1990 Aug;108(2):198-204; discussion 204-5
Bile refeeding after liver transplantation and avoidance of intravenous cyclosporine. Merion RM, et al. **Surgery** 1989 Oct;106(4):604-9; discussion 609-10
Aztreonam can safely be used in combination with cyclosporin without aggravating nephrotoxicity. Rietbroek RC, et al. **Transpl Int** 1989 Dec;2(4):232-4
Low-dose cyclosporin A therapy in cadaver renal transplantation in children. Ruder H, et al. **Transpl Int** 1989 Dec;2(4):203-8
Treatment with total lymphoid irradiation, cyclosporin A and a monoclonal anti-T-cell antibody in a hamster-to-rat heart transplantation model: graft survival and morphological analysis. Steinbrüchel DA, et al. **Transpl Int** 1990 May;3(1):36-40
Comparison of oral and intravenous cyclosporine A in kidney transplants. Asokan VS, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1717-8
An appraisal of drug interactions with Sandimmun. Cockburn IT, et al. **Transplant Proc** 1989 Oct;21(5):3845-50 (114 ref.)
Alternate-day cyclosporine A and azathioprine in experimental dog renal allografts. Collier DS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1279-80
Covariables in cyclosporine immunosuppression. Grevel J, et al. **Transplant Proc** 1990 Jun;22(3):1113-5
High long-term graft survival rates in kidney transplantation with the sequential association of antithymocyte globulin and cyclosporine A monotherapy. Hourmant M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2113-4
The Stanford experience: survival and renal function in the pre-sandimmune era compared to the sandimmune era. Hunt SA, et al. **Transplant Proc** 1990 Jun;22(3 Suppl 1):1-5
The cyclosporine-sparing effects of diltiazem in renal transplantation. McCauley J, et al. **Transplant Proc** 1989 Dec;21(6):3955-7
Long-term morbidity of cyclosporine with corticosteroid-free maintenance immunosuppression in cardiac transplantation. Moore CK, et al.

Transplant Proc 1990 Jun;22(3 Suppl 1):25–9

Is cyclosporine administration in twice daily dose advantageous? Savoldi S, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1720–2

Adjustment of cyclosporine dosage in renal transplant patients based on concentration measured specifically in whole blood: clinical outcome results and diagnostic utility. Shaw LM, et al. **Transplant Proc** 1990 Jun;22(3):1267–73

Sequential antilymphoblast globulin and cyclosporine for renal transplantation. Sommer BG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1879–80

Development of a new carrier for cyclosporine A with selectivity for lymphatics. Takada K, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1711–2

Immunocytochemical and ultrastructural changes of islet cells in rats treated long-term with cyclosporine at immunotherapeutic doses. Bani-Sacchi T, et al. **Transplantation** 1990 May;49(5):982–7

Tolerance of cyclosporine oral capsules in a patient hypersensitive to standard oral and intravenous solutions of the drug. Cooney GF, et al. **Transplantation** 1990 Apr; 49(4):823–4

Long-term, low-dose cyclosporine treatment of renal allograft recipients. A randomized trial. Delmonico FL, et al. **Transplantation** 1990 May;49(5):899–904

Effect of chronic treatment with cyclosporine and prednisone on acetaminophen metabolism in renal transplant patients. D'Souza MJ, et al. **Transplantation** 1989 Oct;48(4):697–700

The impact of steady-state cyclosporine concentrations on renal allograft outcome. Dunn J, et al. **Transplantation** 1990 Jan;49(1):30–4

Concomitant administration of cyclosporine and ketoconazole for three and a half years in one heart transplant recipient. Girardet RE, et al. **Transplantation** 1989 Nov;48(5):887–90

Antilymphoblast globulin, cyclosporine, and steroids in cadaveric renal transplantation. Griño JM, et al. **Transplantation** 1990 Jun;49(6):1114–7

Inhibition of anti-OKT3 antibody generation by cyclosporine—results of a prospective randomized trial. Hricik DE, et al. **Transplantation** 1990 Aug;50(2):237–40

High-dose cyclosporine therapy in recurrent nephrotic syndrome following renal transplantation. Ingulli E, et al. **Transplantation** 1990 Jan;49(1):219–21

The role of cold ischemia in a provincial organ-sharing program in the cyclosporine era. Jordan ML, et al. **Transplantation** 1990 Feb;49(2):367–73

Azathioprine and prednisolone immunosuppression versus maintenance triple therapy including cyclosporine for orthotopic liver transplantation. A comparative biochemical and histologic study in one center. Klompmaker IJ, et al. **Transplantation** 1989 Nov; 48(5):814–8

Delayed graft functions and cyclosporine [letter; comment] Matas AJ. **Transplantation** 1990 May;49(5):1025 Comment on: Transplantation 1989 Nov;48(5):805–8.

Adrenal reserve in renal transplant recipients with cyclosporine, azathioprine, and prednisone immunosuppression. Shapiro R, et al. **Transplantation** 1990 May;49(5):1011–3

Combination thalidomide and cyclosporine for cardiac allograft rejection. Comparison with combination methylprednisolone and cyclosporine. Tamura F, et al. **Transplantation** 1990 Jan;49(1):20–5

The effect of hypoprolactinemia alone and in combination with cyclosporine on allograft rejection. Wilner ML, et al. **Transplantation** 1990 Feb;49(2):264–7

[Cyclosporin A in preventive therapy after kidney transplantation: a double combination versus a triple combination. I. Therapeutic effectiveness] Matl I, et al. **Cas Lek Cesk** 1990 May 4;129(18):550–3 (Eng. Abstr.) **(Cze)**

[Heart transplantation in the era of cyclosporin] Kjaergård HK. **Ugeskr Laeger** 1990 Mar 19;152(12):796–8 (Eng. Abstr.) **(Dan)**

[Immunosuppression with cyclosporin induces clinical remission and improved beta cell function in patients with newly diagnosed insulin-dependent diabetes. A national and international multicenter study] Mandrup-Poulsen TR, et al. **Ugeskr Laeger** 1990 Jul 2;152(27):1963–9 (Eng. Abstr.) **(Dan)**

[At-risk keratoplasty, HLA antigens and cyclosporin A] Martin XD, et al. **Klin Monatsbl Augenheilkd** 1990 May; 196(5):301–3 (Eng. Abstr.) **(Fre)**

[Allogeneic transplantation of ear-calvarium units in the rabbit animal experiment with immunosuppressive protection by cyclosporin A] Kniha H, et al. **Fortschr Kiefer Gesichtschir** 1990;35:28–30 **(Ger)**

[Systemic cyclosporin A therapy in high risk keratoplasty] Bialasiewicz AA, et al. **Fortschr Ophthalmol** 1989; 86(6):574–80 (Eng. Abstr.) **(Ger)**

[Cyclosporin A treatment of Behçet's disease] Büsch R, et al. **Hautarzt** 1990 Apr;41(4):229–31 (Eng. Abstr.) **(Ger)**

[T-cell oriented therapy concept in the treatment of rejection following liver transplantation] Kremer B, et al. **Helv Chir Acta** 1989 Dec;56(4):521–5 (Eng. Abstr.) **(Ger)**

[Therapy of the ocular form of Behçet disease with cyclosporin A] Pahlitzsch T, et al. **Klin Monatsbl Augenheilkd** 1990 Jun;196(6):466–9 (Eng. Abstr.) **(Ger)**

[Status of plasmapheresis and cyclosporin A in the treatment of systemic lupus erythematosus] Graf N, et al. **Monatsschr Kinderheilkd** 1990 Jul;138(7):395–8 (Eng. Abstr.) **(Ger)**

[Cyclosporin A in severe aplastic anemia in children] Lackner H, et al. **Padiatr Padol** 1989;24(4):313–20 (Eng. Abstr.) **(Ger)**

[Topical administration of cyclosporin in psoriasis vulgaris] Bunse T, et al. **Z Hautkr** 1990 Jun;65(6):538, 541–2 (Eng. Abstr.) **(Ger)**

[Cyclosporin A—dermatologic indications] Mahrle G, et al. **Z Hautkr** 1990 Jan;65(1):28–32, 37–9 (99 ref.) (Eng. Abstr.) **(Ger)**

[Spontaneous kidney transplant rupture—effect of immunosuppressive therapy on incidence of rupture] Oesterwitz H, et al. **Z Urol Nephrol** 1990 Apr;83(4):157–63 (Eng. Abstr.) **(Ger)**

[Results of conversion from conventional immunosuppressive therapy to cyclosporin A in complications following kidney transplantation] Scholz D, et al. **Z Urol Nephrol** 1990 Feb; 83(2):69–76 (Eng. Abstr.) **(Ger)**

[Thoracic duct drainage pretreatment and low dose cyclosporine and low dose steroid immunosuppressive treatment in living related kidney transplantation] Ohshima S, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Feb; 81(2):225–9 (Eng. Abstr.) **(Jpn)**

[Severe aplastic anemia successfully treated with cyclosporin A and prednisolone] Ito R, et al. **Rinsho Ketsueki** 1989 Dec;30(12):2157–62 (Eng. Abstr.) **(Jpn)**

[Plasma renin activity and aldosterone and vasopressin levels in the blood of patients with transplanted kidney treated with cyclosporin and prednisone or azathioprine with prednisone] Nieszporek T, et al. **Pol Arch Med Wewn** 1987 Nov;78(5):261–9 (Eng. Abstr.) **(Pol)**

[Adrenal cortex function in patients after kidney transplantation treated with cyclosporin A with prednisone or Azathioprine with prednisone] Nieszporek T, et al. **Pol Arch Med Wewn** 1989 Feb;81(2):86–91 (Eng. Abstr.) **(Pol)**

[Corticotropin (ACTH), somatotropin (GH) and cortisol secretion in patients with transplanted kidney treated with cyclosporin A with prednisone or azathioprine with prednisone] Nieszporek T, et al. **Pol Arch Med Wewn** 1987 Nov;78(5):251–60 (Eng. Abstr.) **(Pol)**

[Programs of immunosuppressive and anti-inflammatory treatment of primary idiopathic glomerulonephritis. I. Submicroscopic and focal segmental glomerulonephritis] Klinger M, et al. **Przegl Lek** 1989;46(10):744–9 **(Pol)**

ADVERSE EFFECTS

Hypertension in bone marrow transplanted patients. De Plaen JF, et al. **Acta Clin Belg** 1989;44(5):295–302

Hyperuricemia and gout in cyclosporin A–treated renal transplant recipients. Lin HY, et al. **Adv Exp Med Biol** 1989;253A:289–92

Nephrotoxicity of cyclosporine in autoimmune diseases. Hannedouche TP, et al. **Adv Nephrol** 1990;19:169–85 (80 ref.)

Clinical and radiologic features of malignant neoplasms in organ transplant recipients: cyclosporine-treated vs untreated patients. Honda H, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):271–4

Cardiac transplant hypertension. Starling RC, et al. **Am J Cardiol** 1990 Jan 1;65(1):106–11 (35 ref.)

The beneficial effect of atrial natriuretic peptide on cyclosporine nephrotoxicity. Capasso G, et al. **Am J Hypertens** 1990 Mar;3(3):204–10

Onset of dialysis encephalopathy in cyclosporine-treated renal allograft recipients. Hawley CM, et al. **Am J Kidney Dis** 1990 Apr;15(4):364–8

Enalapril-associated acute renal failure in renal transplants: possible role of cyclosporine. Murray BM, et al. **Am J Kidney Dis** 1990 Jul;16(1):66–9

Cyclosporine-induced changes in glomerular filtration rate and urea excretion. Laskow DA, et al. **Am J Med** 1990 May;88(5):497–502

Evolution of ciclosporin nephrotoxicity in patients treated for autoimmune uveitis. Austin HA 3d, et al. **Am J Nephrol** 1989;9(5):392–402

Cyclosporine-induced trichomegaly. Weaver DT, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):239

Cyclosporine and itraconazole interaction in heart and lung transplant recipients. Kramer MR, et al. **Ann Intern Med** 1990 Aug 15;113(4):327–9

Hypertension after renal transplantation in patients treated with cyclosporin and azathioprine. Gordjani N, et al. **Arch Dis Child** 1990 Mar;65(3):275–9

Cyclosporine-associated hypertension. National High Blood Pressure Education Program. Porter GA, et al. **Arch Intern Med** 1990 Feb;150(2):280–3 (46 ref.)

Gingival overgrowth induced by cyclosporin A in rats. Kitamura K, et al. **Arch Oral Biol** 1990;35(6):483–6

Side-effect profile of cyclosporin A in patients treated for psoriasis. Krupp P, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:47–56 (18 ref.)

Renal side-effects of cyclosporin A. Mason J. **Br J Dermatol** 1990 Jun;122 Suppl 36:71–7

Indirect assessment of renal dysfunction in patients taking cyclosporin A for autoimmune diseases. Mason J, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:79–84

Cutaneous malignant melanomas occurring under cyclosporin A therapy: a report of two cases. Mérot Y, et al. **Br J Dermatol** 1990 Aug;123(2):237–9

Renal side-effects of cyclosporin A with special reference to autoimmune diseases. Mihatsch MJ, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:101–15 (53 ref.)

Prolonged neuromuscular blockade and ventilatory failure after renal transplantation and cyclosporine. Sidi A, et al. **Can J Anaesth** 1990 Jul;37(5):543–8

Renal failure in cardiac transplantation. Greenberg A. **Cardiovasc Clin** 1990;20(2):189–98 (58 ref.)

High cumulative dose of ultraviolet radiation is a contraindication for cyclosporin therapy [letter] Korstanje MJ, et al. **Clin Exp Dermatol** 1990 Jan;15(1):76

Cyclosporine-associated arthralgia [letter] Bailie GR, et al. **Clin Nephrol** 1990 May;33(5):256–7

Cyclosporin induced hyperuricemia and gout [letter] Deray G, et al. **Clin Nephrol** 1990 Mar;33(3):154

Glucose-intolerance and prolonged renal-transplant insufficiency due to ketoconazole-cyclosporin A interaction [letter] Kiss D, et al. **Clin Nephrol** 1990 Apr; 33(4):207–8

Prevention of cyclosporine-induced nephrotoxicity with transdermal clonidine. Luke J, et al. **Clin Pharm** 1990 Jan; 9(1):49–53

Potential protective effects of furosemide against early renal injury in liver transplant patients receiving cyclosporine-A. Driscoll DF, et al. **Crit Care Med** 1989 Dec;17(12):1341–3

Nephrotoxicity of cyclosporin A in patients with newly diagnosed type 1 diabetes mellitus. Feldt-Rasmussen B, et al. **Diabetic Med** 1990 Jun;7(5):429–33

Two distinct squamous cell carcinomas in a psoriasis patient receiving low-dose cyclosporine maintenance treatment. Bos JD, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1305–6

The risk of neoplasms in patients treated with cyclosporine A. Cockburn IT, et al. **J Autoimmun** 1989 Oct;2(5):723–31 (18 ref.)

Age-related factors in cyclosporine-induced syngeneic graft-versus-host disease: regulatory role of marrow-derived T lymphocytes. Fischer AC, et al. **J Exp Med** 1990 Jul 1;172(1):85–94

Predictors of severe renal dysfunction after heart transplantation and intravenous cyclosporine therapy. Macris MP, et al. **J Heart Transplant** 1989 Nov-Dec; 8(6):444–8; discussion 449

Increased incidence of cholelithiasis in heart transplant recipients receiving cyclosporine therapy. Spes CH, et al. **J Heart Transplant** 1990 Jul-Aug;9(4):404–7

Long-term effects of cyclosporine on renal function in organ transplant recipients. Bantle JP, et al. **J Lab Clin Med** 1990 Feb;115(2):233–40

The bisphosphonate 2-PEBP inhibits cyclosporin A induced high-turnover osteopenia in the rat. Movsowitz C, et al. **J Lab Clin Med** 1990 Jan;115(1):62–8

Complex partial status epilepticus associated with cyclosporin A therapy. Appleton RE, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep;52(9):1068–71

Androgen metabolism in gingival hyperplasia induced by nifedipine and cyclosporin. Sooriyamoorthy M, et al. **J Periodont Res** 1990 Jan;25(1):25–30

Prolonged systemic administration of cyclosporin A affects gingival epithelium. Pisanty S, et al. **J Periodontol** 1990 Feb;61(2):138–41

Reversible nephrotoxicity of cyclosporine in rheumatoid arthritis. Boers M, et al. **J Rheumatol** 1990 Jan;17(1):38–42

Increase in plasma 5 alpha-androstane-3 alpha,17 beta-diol glucuronide as a marker of peripheral androgen action in hirsutism: a side-effect induced by cyclosporine A. Vexiau P, et al. **J Steroid Biochem** 1990 Jan;35(1):133–7

Myopathy as possible side-effect of cyclosporin [letter; comment] Chassagne P, et al. **Lancet** 1989 Nov 4; 2(8671):1104 Comment on: Lancet 1989 Jun 24;1(8652):1446–7.

Interaction between fluconazole and cyclosporin [letter] Collignon P, et al. **Lancet** 1989 Oct 7;2(8667):867–8

Reversible cyclosporin myopathy [letter] Fernández-Solá J, et al. **Lancet** 1990 Feb 10;335(8685):362–3

Migraine after bone-marrow transplantation [letter; comment] Gharpure VS, et al. **Lancet** 1990 Jan 6; 335(8680):57 Comment on: Lancet 1989 Nov 25;2(8674):1286–7.

Cyclosporin-induced muscular toxicity [letter; comment] [see comments] Grezard O, et al. **Lancet** 1990 Jan 20; 335(8682):177 Comment on: Lancet 1989 Jun 24;1(8652):1446–7. Comment in: Lancet 1990 Mar 31;335(8692):800–1.

Cyclosporin toxicity at therapeutic blood levels and cytochrome P-450 IIIA. Lucey MR, et al. **Lancet** 1990 Jan 6;335(8680):11–5

Treatment of cyclosporin-induced haemolytic uraemic syndrome with FK506 [letter] [see comments] McCauley J, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1516 Comment in: Lancet 1990 Feb 17;335(8686):412.

Cyclosporin toxicity [letter] [see comments] Powles AV, et al. **Lancet** 1990 Mar 10;335(8689):610 Comment in: Lancet 1990 Apr 14;335(8694):924.

Is myopathy in renal transplant patients induced by cyclosporin or colchicine? [letter; comment] Rumpf KW, et al. **Lancet** 1990 Mar 31;335(8692):800–1 Comment on: Lancet 1990 Jan 20;335(8682):177.

Cyclosporin versus methotrexate toxicity in psoriasis [letter; comment] Zachariae H, et al. **Lancet** 1990 Apr 14; 335(8694):924 Comment on: Lancet 1990 Mar 10;335(8689):610.

Failure to detect remarkable hypomagnesemia in renal

transplant recipients receiving ciclosporin. Haag-Weber M, et al. **Miner Electrolyte Metab** 1990;16(1):66–8

Blood pressure changes induced by ciclosporin A in type I diabetes. Hannedouche T, et al. **Miner Electrolyte Metab** 1990;16(1):12–5

Cyclosporine-induced hyperuricemia and gout [letter] **N Engl J Med** 1990 Feb 1;322(5):334–6

Cyclosporine-related central nervous system toxicity in cardiac transplantation [letter] Hughes RL. **N Engl J Med** 1990 Aug 9;323(6):420–1

Cyclosporine, sympathetic activity, and hypertension [editorial; comment] Mark AL. **N Engl J Med** 1990 Sep 13;323(11):748–50 Comment on: N Engl J Med 1990 Seo 13;323(11):693–9.

Cyclosporine [letter; comment] Mor F. **N Engl J Med** 1990 May 24;322(21):1530–1 Comment on: N Engl J Med 1989 Dec 21;321(25):1725–38.

Cyclosporine-induced sympathetic activation and hypertension after heart transplantation [see comments] Scherrer U, et al. **N Engl J Med** 1990 Sep 13;323(11):693–9 Comment in: N Engl J Med 1990 Sep 13;323(11):748–50.

The prevalence of skin disorders in renal allograft recipients receiving cyclosporin A compared with those receiving azathioprine. Bunney MH, et al. **Nephrol Dial Transplant** 1990;5(5):379–82

Malignant tumours in renal transplant recipients receiving cyclosporin: survey of 598 first-kidney transplantations. Vogt P, et al. **Nephrol Dial Transplant** 1990;5(4):282–8

Listeria monocytogenes endophthalmitis in a renal-transplant patient receiving ciclosporin. Algan M, et al. **Ophthalmologica** 1990;201(1):23–7

Prevention of cyclosporine-induced nephrotoxicity with pentoxifylline. Brunner LJ, et al. **Ren Fail** 1989; 11(2–3):97–104

Dietary eicosapentaenoic acid does not modify cyclosporin-induced inhibition of angiotensin II-stimulated prostaglandin synthesis in mesangial cells. Walker RJ, et al. **Ren Fail** 1989;11(2–3):125–32

Rioprostil, a new prostaglandin E1, prevents cyclosporin A-induced damage to endocrine and exocrine pancreas. Müller M, et al. **Scand J Gastroenterol Suppl** 1989;164:35–41

Cytomegalovirus infection and disease in renal transplant patients treated with cyclosporin. A prospective study. Bosch FH, et al. **Transpl Int** 1989 Aug;2(2):92–5

Immunohistological analysis of renal allograft biopsies from cyclosporin-treated patients. Induced HLA-class II antigen expression does not exclude a diagnosis of cyclosporin nephrotoxicity. Fuggle SV, et al. **Transpl Int** 1989 Oct;2(3):123–8

The effect of cyclosporine on long-term function in patients undergoing kidney transplant from living donors. Alfani D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1759–60

Factors predictive of cyclosporine-induced nephrotoxicity: the role of cyclosporine blood levels. Bach JF, et al. **Transplant Proc** 1990 Jun;22(3):1296–8

Evaluation of class II major histocompatibility complex antigen expression for the differential diagnosis of cyclosporine A nephrotoxicity from kidney graft rejection. Barrett M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1769–71

Renal transplantation in children: renal functional follow-up of cyclosporine-treated children. Berg UB, et al. **Transplant Proc** 1990 Feb;22(1):160–1

Cyclosporine, combination immunosuppression, and posttransplant diabetes mellitus. Boudreaux JP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1811–3

Deep venous thrombosis in patients undergoing renal transplantation—effects of cyclosporine A. Brunkwall J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1814

Cyclosporine-associated hemolytic uremic syndrome in four renal allograft recipients: resolution without specific therapy. Buturović J, et al. **Transplant Proc** 1990 Aug; 22(4):1726–7

Glycosuria: an index of cyclosporine nephrotoxicity. Chan P, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1780

The mechanism of hyperuricaemia in cyclosporine-treated renal transplant recipients. Cohen SL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1829–30

Cyclosporine nephrotoxicity and cyclosporine-digoxin interaction prior to heart transplantation. Dorian P, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1825–7

Low predictive value of cyclosporine level for efficacy or renal dysfunction in psoriasis and idiopathic nephrotic syndrome. Feutren G, et al. **Transplant Proc** 1990 Jun; 22(3):1299–302

Thromboembolic complications after renal transplantation: results from the randomized trial of cyclosporine v azathioprine–antilymphocyte globulin. Gruber SA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1815–6

Results of "immunoconversion" from cyclosporine to azathioprine in heart transplant recipients with progressive nephrotoxicity. Hunt SA, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):2522–4

Cyclosporine-induced nephrotoxicity: role of prostaglandins. Jorkasky D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1742–4

Comparison of the utility of 3H-based specific monoclonal antibody assay on whole blood samples with the fluorescence polarization nonspecific immunoassay on serum samples for diagnosis of adverse events in renal transplant patients. Kahan BD, et al. **Transplant Proc** 1990 Jun;22(3):1274–9

Avoidance of perioperative renal toxicity by a modified immunosuppression protocol. Kormos RL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2525–6

Cyclosporine A and intravascular coagulation. Landmann J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1817–9

Impairment of liver synthetic function and decreased liver flow during cyclosporine A therapy. Leunissen KM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1822–4

Hepatobiliary complications of cyclosporine therapy following renal transplantation. Lorber MI, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1808–10

Correlation between urine sediment cytology analysis and clinical state in cyclosporine-treated renal recipients. Madras PN, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1664

Possibility of recognizing immunologic and cyclosporine A damage by urinary neopterin excretion in kidney transplant recipients. Magalini SC, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1686–8

Determinants of cyclosporine nephrotoxicity following cardiac transplantation. Martin M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2516–7

Renal side-effects of cyclosporine. Mason J. **Transplant Proc** 1990 Jun;22(3):1280–3 (14 ref.)

Are serum creatinine levels adequate to identify the onset of chronic cyclosporine A nephrotoxicity? Mobb GE, et al. **Transplant Proc** 1990 Aug;22(4):1708–10

Fractional excretion of sodium is an early predictor of cyclosporine nephrotoxicity after renal transplantation. Morales JM, et al. **Transplant Proc** 1990 Aug;22(4):1728–9

Calcium channel blockers and early cyclosporine nephrotoxicity after renal transplantation: a prospective randomized study. Morales JM, et al. **Transplant Proc** 1990 Aug;22(4):1733–5

Cancers following cyclosporine therapy. Penn I. **Transplant Proc** 1987 Feb;19(1 Pt 3):2211–3

Long-term cyclosporine for renal allograft patients does not cause nephrotoxicity. Post GR, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1761–3

Increased plasma LDL cholesterol after renal transplantation associated with cyclosporine immunosuppression. Raine AE, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1820–1

The long-term deleterious effect of delayed graft function in cyclosporine-treated renal allograft recipients. Rocher LL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2093–5

Biologic activity of cyclosporine metabolites. Sewing KF, et al. **Transplant Proc** 1990 Jun;22(3):1129–34

Cancer incidence in renal transplant patients treated with azathioprine or cyclosporine. Sheil AG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2214–6

Cyclosporine toxicity in amyloidotic patients. Siegal B, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1544–5

Failure of 125I-tracer selective monoclonal antibody levels on a whole blood matrix to predict rejection or nephrotoxic episodes in renal transplant patients under anti-lymphocyte globulin and prednisone therapy. Stiller C, et al. **Transplant Proc** 1990 Jun;22(3):1253–4

Gastrointestinal and metabolic problems associated with immunosuppression with either CyA or FK 506 in liver transplantation. Van Thiel DH, et al. **Transplant Proc** 1990 Feb;22(1):37–40

Dihydroergotoxine (hydergine) to prevent cyclosporine nephrotoxicity in kidney transplant recipients. Vincent HH, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1737–8

The differentiation of acute renal allograft rejection and cyclosporine nephrotoxicity by simple urine cytology. Williamson EP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1785–6

Cyclosporine nephrotoxicity has no influence on cellular infiltration in cadaveric renal allografts. Wood RF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1789

Effects of cyclosporine on glucose metabolism in kidney transplant recipients and rats. Yagisawa T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1801–3

Acute myelogenous leukemia in a renal allograft recipient receiving cyclosporine therapy. Butler J, et al. **Transplantation** 1990 Apr;49(4):813–5

The use of routinely available clinical data in differentiating renal allograft rejection from cyclosporine nephrotoxicity. Chan GL, et al. **Transplantation** 1989 Dec;48(6):1075–7

Impact of race on renal transplant outcome. Dawidson IJ, et al. **Transplantation** 1990 Jan;49(1):63–7

Chronic cyclosporine-associated nephrotoxicity in bone marrow transplant patients. Dieterle A, et al. **Transplantation** 1990 Jun;49(6):1093–100

Severe endothelial injury in a renal transplant patient receiving cyclosporine. Fogo A, et al. **Transplantation** 1990 Jun;49(6):1190–2

Characterization of the interstitial cellular infiltrate in experimental chronic cyclosporine nephropathy. Gillum DM, et al. **Transplantation** 1990 Apr;49(4):793–7

Immune mechanisms in cyclosporine-induced syngeneic graft-versus-host disease. Hess AD, et al. **Transplantation** 1989 Dec;48(6):895–900 (36 ref.)

Effects of prazosin therapy in renal allograft recipients receiving cyclosporine. Kiberd BA. **Transplantation** 1990 Jun;49(6):1200–1

Cyclosporine-induced renal dysfunction in human renal allograft recipients. Kiberd BA. **Transplantation** 1989 Dec; 48(6):965–9

Amplification of the nephrotoxic effect of cyclosporine by preexistent chronic histological lesions in the kidney. Leunissen KM, et al. **Transplantation** 1989 Oct;48(4):590–3

The impairment of true glomerular filtration rate in long-term cyclosporine-treated pediatric allograft recipients. McDiarmid SV, et al. **Transplantation** 1990 Jan; 49(1):81–5

Successful twin pregnancies in renal transplant recipients taking cyclosporine. Prieto C, et al. **Transplantation** 1989 Dec;48(6):1065–7

Glomerulotubular function in long-term renal allograft recipients. A comparison of conventional therapy with cyclosporine. Propper DJ, et al. **Transplantation** 1990 Jul; 50(1):72–5

Cyclosporine central neurotoxicity following renal transplantation. Report of a case using magnetic resonance images. Scheinman SJ, et al. **Transplantation** 1990 Jan; 49(1):215–6

Multiple extramedullary plasmacytomas following orthotopic liver transplantation in a patient on cyclosporine therapy. Schemankewitz E, et al. **Transplantation** 1990 May; 49(5):1019–22

Pancreatic islet transplantation in cynomolgus monkeys. Initial studies and evidence that cyclosporine impairs glucose tolerance in normal monkeys. Stegall MD, et al. **Transplantation** 1989 Dec;48(6):944–50

Subcutaneous heparin therapy for cyclosporine-immunosuppressed renal allograft recipients. Ubhi CS, et al. **Transplantation** 1989 Nov;48(5):886–7

Proteinuria in cyclosporine-treated renal transplant recipients. Vathsala A, et al. **Transplantation** 1990 Jan; 49(1):35–41

Possible association of the immunosuppressive and B cell lymphoma-promoting properties of cyclosporine. Walz G, et al. **Transplantation** 1990 Jan;49(1):191–4

Nephrotoxicity of common drugs used by urologists. Bennett WM, et al. **Urol Clin North Am** 1990 Feb;17(1):145–56 (57 ref.)

[Cyclosporin A in preventive therapy after kidney transplantation: a double combination versus a triple combination. II. Adverse effects of cyclosporin A and therapeutic complications] Matl I, et al. **Cas Lek Cesk** 1990 May 4;129(18):554–7 (Eng. Abstr.) **(Cze)**

[Pseudolymphoma induced by cyclosporin] Bagot M, et al. **Ann Dermatol Venereol** 1989;116(11):894–6 **(Fre)**

[Interactions of cyclosporin with atracurium and vecuronium] Lepage JY, et al. **Ann Fr Anesth Reanim** 1989; 8 Suppl:R135 **(Fre)**

[The effect of cyclosporin on renal function following cardiac transplantation: should one lessen the toxicity?] Carrier M, et al. **Can J Surg** 1990 Jun;33(3):243–7 (Eng. Abstr.) **(Fre)**

[Multiple keratoacanthoma during cyclosporin therapy (letter)] Guillot B, et al. **Presse Med** 1990 Jul 7–14; 19(27):1286 **(Fre)**

[Arterial hypertension in heart transplant recipients] Julien J, et al. **Presse Med** 1990 Jan 6–13;19(1):26–9 (26 ref.) (Eng. Abstr.) **(Fre)**

[Renal function and arterial pressure in 22 heart transplant recipients treated with cyclosporin for more than 5 years (letter)] Rottembourg J, et al. **Presse Med** 1989 Sep 2–9; 18(27):1343 **(Fre)**

[Painful polyarticular syndrome probably induced by cyclosporin in three patients with a kidney transplant and one with a heart transplant] Bouteiller G, et al. **Rev Rhum Mal Osteoartic** 1989 Nov;56(11):753–5 (Eng. Abstr.) **(Fre)**

[Epiphyseal bone pain caused by cyclosporin A in 28 patients with renal transplantation] Lucas V, et al. **Rev Rhum Mal Osteoartic** 1990 Jan;57(1):79–84 **(Fre)**

[Pregnancy following liver transplantation and during immunosuppression with cyclosporine] Günter HH, et al. **Dtsch Med Wochenschr** 1990 May 11;115(19):470–2 (Eng. Abstr.) **(Ger)**

[Adverse effects of cyclosporin A with special reference to the peripheral nervous system] Becker M, et al. **Handchir Mikrochir Plast Chir** 1990 Jul;22(4):196–202 (Eng. Abstr.) **(Ger)**

[Histopathologic aspects of gingival hyperplasia caused by cyclosporin] Cardesi E, et al. **Minerva Stomatol** 1989 Jul; 38(7):709–12 (Eng. Abstr.) **(Ita)**

[Gingival hypertrophy induced by cyclosporin A in heart transplant patients] Rodriguez y Baena R, et al. **Minerva Stomatol** 1990 May;39(5):361–5 (Eng. Abstr.) **(Ita)**

[Differential diagnosis of the rejection crisis and toxic and immune-induced nephropathy] Belorusov OS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):96–102 (Eng. Abstr.) **(Rus)**

[Kaposi's sarcoma in kidney transplant treated with cyclosporin and azathioprine] Cózar JM, et al. **Arch Esp Urol** 1990 Mar;43(2):155–8 (Eng. Abstr.) **(Spa)**

[Treatment with cyclosporin in the pregnant woman with a kidney transplant] Cararach V, et al. **Med Clin (Barc)** 1990 Apr 21;94(15):579–81 (27 ref.) **(Spa)**

[Immunosuppression with cyclosporin after orthoptic liver transplant in pigs] Arias J, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):203–9 (Eng. Abstr.) **(Spa)**

ANALYSIS

Stability of cyclosporine in 5% dextrose injection. Shea BF, et al. **Am J Hosp Pharm** 1989 Oct;46(10):2053–5

Complexation and medium effects on the conformation of cyclosporin A studied by NMR spectroscopy and

molecular dynamics calculations. Kessler H, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):169–73

Cyclosporin A levels in suction-blister fluid of patients with psoriasis treated systemically. Meinardi MM, et al. **Br J Dermatol** 1990 May;122(5):671–6

Consensus document: Hawk's Cay meeting on therapeutic drug monitoring of cyclosporine. Kahan BD, et al. **Clin Chem** 1990 Aug;36(8 Pt 1):1510–6 (47 ref.)

Pharmacology of cyclosporin (sandimmune). II. Chemistry. Wenger RM. **Pharmacol Rev** 1990 Sep;41(3):243–7 (38 ref.)

A radioreceptor assay for the measurement of cyclosporine activity: a preliminary report. Donnelly JG, et al. **Ther Drug Monit** 1989 Nov;11(6):696–700

The potential of monoclonal antibodies for cyclosporine monitoring. Quesniaux V, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1715–6

Structures of cyclosporine and its metabolites. Wenger RM. **Transplant Proc** 1990 Jun;22(3):1104–8

ANTAGONISTS & INHIBITORS

Prevention and complete reversal of cyclosporine A–induced renal vasoconstriction and nephrotoxicity in the rat by fenoldopam. Brooks DP, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):375–9

BIOSYNTHESIS

Production of cyclosporins by Tolypocladium niveum strains. Isaac CE, et al. **Antimicrob Agents Chemother** 1990 Jan; 34(1):121–7

Isolation of (4R)-4-[(E)-2-butenyl]-4-methyl-L-threonine, the characteristic structural element of cyclosporins, from a blocked mutant of Tolypocladium inflatum. Sanglier JJ, et al. **J Antibiot (Tokyo)** 1990 Jun;43(6):707–14

[Cyclosporin biosynthesis and dynamics of bioenergetic processes in cyclosporin-producing strain] Sotnikova IV, et al. **Antibiot Khimioter** 1990 May;35(5):3–7 (Eng. Abstr.) **(Rus)**

BLOOD

Predictive value of cyclosporin A level for efficacy or renal dysfunction in psoriasis. Feutren G, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:85–93

Effects of temperature and endogenous factors in blood on concentrations of cyclosporin in plasma measured by high-performance liquid chromatography. Shibata N, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1877–80

Evaluation of the Incstar Cyclo-Trac sp kit for the determination of cyclosporine in blood. Plebani M, et al. **Clin Biochem** 1989 Oct;22(5):345–7

A validation study of selected methods routinely used for measurement of cyclosporine. Blick KE, et al. **Clin Chem** 1990 Apr;36(4):670–4

Increased sensitivity in a radioimmunoassay for measuring cyclosporine in lipoprotein fractions. Brunner LJ, et al. **Clin Chem** 1990 Feb;36(2):329–31

Therapeutic monitoring of cyclosporine: impact of a change in standards on 125I-monoclonal RIA performance in comparison with liquid chromatography. Keown PA, et al. **Clin Chem** 1990 May;36(5):804–7

Three commercial polyclonal immunoassays for cyclosporine in whole blood compared: 2. Cross-reactivity of the antisera with cyclosporine metabolites. Lensmeyer GL, et al. **Clin Chem** 1990 Jan;36(1):119–23

Semi-micro method for liquid-chromatographic determination of cyclosporin A in whole blood with use of a rapid extraction procedure. Sadeg N, et al. **Clin Chem** 1990 Jun;36(6):1253

Chemiluminescence immunoassay of cyclosporine in whole blood. Stabler TV, et al. **Clin Chem** 1990 Jun;36(6):906–8

Three commercial polyclonal immunoassays for cyclosporine in whole blood compared: 1. Results with patients' specimens. Strassman MJ, et al. **Clin Chem** 1990 Jan; 36(1):115–8

Cross-correlation of cyclosporine concentrations and biochemical measures of kidney and liver function in heart and heart-lung transplant recipients. Trull A, et al. **Clin Chem** 1990 Aug;36(8 Pt 1):1474–8

The erythromycin breath test as a predictor of cyclosporine blood levels. Watkins PB, et al. **Clin Pharmacol Ther** 1990 Aug;48(2):120–9

Therapeutic drug monitoring of cyclosporine (CSA). Buonpane E. **Conn Med** 1990 Jan;54(1):17–9

Evaluation and comparison of radioimmunoassay methods using monoclonal or polyclonal antibodies for the assay of cyclosporine in blood samples. Zucchelli GC, et al. **Int J Tissue React** 1989;11(6):315–20

Isotretinoin treatment of severe acne in posttransplant patients taking cyclosporine. Bunker CB, et al. **J Am Acad Dermatol** 1990 Apr;22(4):693–4

Improved high-performance liquid chromatographic method for analysis of cyclosporin A using an automated sample processor. Lachno DR, et al. **J Chromatogr** 1990 Jan 26; 525(1):123–32

Comparison of cyclosporin A measurement in whole blood by six different methods. Tjandra-Maga B, et al. **J Clin Chem Clin Biochem** 1990 Jan;28(1):53–7

Assay methods for cyclosporine monitoring following liver transplantation. Haven MC, et al. **J Clin Lab Anal** 1990; 4(2):150–6 (61 ref.)

Analytical evaluation of TDx cyclosporine and metabolites fluorescence polarization immunoassay and comparison with the Cyclo-Trac RIA kit. Montojo C, et al. **J Clin Pharm Ther** 1990 Feb;15(1):45–51

Thrombosis in human pancreatic transplantation associated with elevated cyclosporine levels and possible protection by antihypertensive agents. Jennings WC, et al. **J Okla State Med Assoc** 1990 Jun;83(6):255–7

Assessment of cyclosporine A interactions with human plasma lipoproteins in vitro and in vivo in the rat. Urien S, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):305–9

Cyclosporin monitoring in psoriasis [letter; comment] Feutren G, et al. **Lancet** 1990 Apr 7;335(8693):866–7 Comment on: Lancet 1989 Dec 23-30;2(8678–8679):1500–2.

Interaction of intravenous methylprednisolone with oral cyclosporin. Ubhi CS, et al. **Nephrol Dial Transplant** 1990; 5(5):376–8

Effect of plasmapheresis on blood and plasma cyclosporin levels. Varl J, et al. **Prog Clin Biol Res** 1990;337:363–5

Interactions of cyclosporine with antimicrobial agents [letter; comment] Herbrecht R, et al. **Rev Infect Dis** 1990 Mar-Apr;12(2):371 Comment on: Rev Infect Dis 1989 Sep-Oct;11(5):691–7.

Comparative analyses of cyclosporine in whole blood and plasma by radioimmunoassay, fluorescence polarization immunoassay, and high-performance liquid chromatography. Lindholm A, et al. **Ther Drug Monit** 1990 Jul;12(4):344–52

Falsely high-trough cyclosporine levels in capillary samples due to topical contamination. Lindholm A, et al. **Ther Drug Monit** 1990 Mar;12(2):211–3

Fluorescence polarization immunoassay for cyclosporine A determination in whole blood. Plebani M, et al. **Ther Drug Monit** 1990 May;12(3):284–7

Measurement of cyclosporine in plasma of cardiac allograft recipients by fluorescence polarization immunoassay. Rondanelli R, et al. **Ther Drug Monit** 1990 Mar;12(2):182–6

Cyclosporine blood concentrations determined by different assay methods in heart transplant patients. Zylber-Katz E, et al. **Ther Drug Monit** 1989 Sep;11(5):592–7

An explanation of the noncorrespondence between assessment methods of cyclosporin. Randleff-Rasmussen GM, et al. **Transpl Int** 1989 Dec;2(4):181–6

The influence of renal allograft function upon cyclosporine blood levels. Arnold AN, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1240–1

RIA plasma cyclosporine values six hours after oral administration (T6)—an easy solution to a difficult therapeutic problem: a retrospective and prospective study. Cantarovich F, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1723–5

Measurements of cyclosporine A by RIA in different centers are not comparable. Frey BM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1713–4

Measurement of cyclosporine bioactivity in serum of renal transplant recipients: development and comparison with RIA. Heidecke CD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1734–6

Diurnal variations of cyclosporine and metabolites in renal transplant patients. Sabaté I, et al. **Transplant Proc** 1990 Aug;22(4):1700–1

Comparative study of different methods for measuring blood cyclosporine A levels in kidney transplantation. Sabater J, et al. **Transplant Proc** 1990 Aug;22(4):1720–2

Association of the absence of steroid therapy with increased cyclosporine blood levels in renal transplant recipients. Hricik DE, et al. **Transplantation** 1990 Jan;49(1):221–3

Comparison of whole-blood cyclosporine levels and the frequency of endomyocardial lymphocytic infiltrates (the Quilty lesion) in cardiac transplantation. Suit PF, et al. **Transplantation** 1989 Oct;48(4):618–21

[Study of blood cyclosporine after kidney or bone marrow transplantation. Comparison of immunofluorescence and radioimmunoassay] Sadeg N, et al. **Ann Pharm Fr** 1989; 47(1):5–15 (Eng. Abstr.) **(Fre)**

[Interaction between phenobarbital and ciclosporin following renal transplantation: a case report] Nishioka T, et al. **Hinyokika Kiyo** 1990 Apr;36(4):447–50 (Eng. Abstr.) **(Jpn)**

[The significance and problem of cyclosporine blood level monitoring] Yuhki Y. **Rinsho Byori** 1990 Feb;38(2):157–62 (Eng. Abstr.) **(Jpn)**

[A method for determining the cyclosporin A concentration in capillary blood] Obukh IB, et al. **Ter Arkh** 1989; 61(7):82–4 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Synthesis and immunosuppressive activities of conformationally restricted cyclosporin lactam analogues. Lee JP, et al. **Int J Pept Protein Res** 1990 May;35(5):481–94

Synthesis, conformation, and immunosuppressive activities of three analogues of cyclosporin A modified in the 1-position. Aebi JD, et al. **J Med Chem** 1990 Mar; 33(3):999–1009

Synthesis, conformation, and immunosuppressive activity of cyclosporines that contain epsilon-oxygen (4R)-4-[(E)-butenyl]-4,N-dimethyl-L-threonine analogues in the 1-position. Sun CQ, et al. **J Med Chem** 1990 May;33(5):1443–52

DIAGNOSTIC USE

Functional heterogeneity of virgin and memory B murine lymphocytes revealed by the utilization of cyclosporin A: an overview. Le Moal MA, et al. **Biochem Cell Biol** 1989 Sep;67(9):490–4

GENETICS

Nucleotide sequence of a cDNA coding for mouse cyclophilin. Hasel KW, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4019

IMMUNOLOGY

The mechanisms of action of cyclosporine. Foxwell BM, et al. **Cardiol Clin** 1990 Feb;8(1):107–17 (56 ref.)

Monoclonal antibodies to cyclosporin are representative of the major antibody populations present in antisera of immunized mice. Quesniaux VF, et al. **Mol Immunol** 1990 Mar;27(3):227–36

METABOLISM

Purification and characterization of an anticonvulsant-induced human cytochrome P-450 catalysing cyclosporin metabolism. Shaw PM, et al. **Biochem J** 1989 Nov 1;263(3):653–63

Improved cellular accumulation is characteristic of anthracyclines which retain high activity in multidrug resistant cell lines, alone or in combination with verapamil or cyclosporin A. Coley HM, et al. **Biochem Pharmacol** 1989 Dec 15;38(24):4467–75

Structural elements pertinent to the interaction of cyclosporin A with its specific receptor protein, cyclophilin. Hsu VL, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):131–40

The interaction of cyclosporin and calmodulin. Steiner RF, et al. **Biopolymers** 1990 May-Jun;29(6-7):1005–14

Calcium channel antagonists and cyclosporine metabolism: in vitro studies with human liver microsomes. Tjia JF, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):362–5

Dose-dependent inhibition of cyclosporine metabolism in mice by fluconazole. La Delfa I, et al. **Can J Physiol Pharmacol** 1990 Jan;68(1):89–93

Immunosuppressive activity of cyclosporine metabolites compared and characterized by mass spectroscopy and nuclear magnetic resonance [see comments] Copeland KR, et al. **Clin Chem** 1990 Feb;36(2):225–9 Comment in: Clin Chem 1990 Feb;36(2):187.

Cyclosporine metabolites: are they active? [editorial; comment] Shaw LM. **Clin Chem** 1990 Feb;36(2):187 Comment on: Clin Chem 1990 Feb;36(2):225–9.

Cross-reactivity of cyclosporine metabolites in two different radioimmunoassays in which the same specific monoclonal antibody is used. Wallemacq PE, et al. **Clin Chem** 1990 Feb;36(2):385

Pharmacokinetics and biotransformation of the cyclosporine metabolite M-17 in the rabbit. Copeland K, et al. **Drug Metab Dispos** 1990 Mar-Apr;18(2):226–30

Isolation and identification of a novel human metabolite of cyclosporin A: dihydro-CsA M17. Meier GP, et al. **Drug Metab Dispos** 1990 Jan-Feb;18(1):68–71

Slow accumulation of cyclosporin metabolites as measured by specific and nonspecific cyclosporin RIA. Keller F, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Apr; 28(4):167–75

Cyclosporin binding to a protein component of the renal Na(+)-D-glucose cotransporter. Ziegler K, et al. **J Biol Chem** 1990 Feb 25;265(6):3270–7

Permeability of the blood-brain barrier to the immunosuppressive cyclic peptide cyclosporin A. Begley DJ, et al. **J Neurochem** 1990 Oct;55(4):1222–30

Identification of the multidrug resistance-related P-glycoprotein as a cyclosporine binding protein. Foxwell BM, et al. **Mol Pharmacol** 1989 Oct;36(4):543–6

Cyclosporin metabolism in human liver microsomes and its inhibition by other drugs. Henricsson S, et al. **Pharmacol Toxicol** 1990 Jan;66(1):49–52

A sulfate conjugate of cyclosporin. Henricsson S. **Pharmacol Toxicol** 1990 Jan;66(1):53–5

Complementary DNA encoding the human T-cell FK506-binding protein, a peptidylprolyl cis-trans isomerase distinct from cyclophilin. Maki N, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5440–3

The effects of calcium channel blockers on cyclosporine and its metabolites in renal transplant recipients. Tortorice KL, et al. **Ther Drug Monit** 1990 Jul;12(4):321–8

Cyclosporine absorption in total orthotopic small bowel transplantation in dogs. Fujiwara H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1125–7

Activity of cyclosporin metabolites M17 and M1. Kunzendorf U, et al. **Transplant Proc** 1990 Aug; 22(4):1697–9

Binding of cyclosporine A to human serum lipoproteins. Rödl S, et al. **Transplant Proc** 1990 Feb;22(1):287–8

Transplacental passage of cyclosporine after liver transplantation [letter] Bourget P, et al. **Transplantation** 1990 Mar;49(3):663

Calcium channel blockers and cyclosporine metabolism. McNally P, et al. **Transplantation** 1989 Dec;48(6):1071

PHARMACOKINETICS

Pharmacokinetical studies on cyclosporin A in psoriasis. Meinardi MM, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:164

Pharmacokinetics and tissue distribution of cyclosporin (CsA) in methylprednisolone-treated rats. Conforti A, et al.

Acta Physiol Hung 1990;75 Suppl:61–2

Cyclosporine (cyclosporin A) pharmacokinetics in renal transplant patients receiving ciprofloxacin. Lang J, et al. **Am J Med** 1989 Nov 30;87(5A):82S–85S

Pharmacokinetics, inhibition of lymphoblast transformation, and toxicity of cyclosporine in clinically normal pigs. Vaden SL, et al. **Am J Vet Res** 1990 Mar;51(3):399–403

Intraluminal cyclosporine A reduces capsular thickness around silicone implants in rats. Stark GB, et al. **Ann Plast Surg** 1990 Feb;24(2):156–61

Investigation of potential interaction of ciprofloxacin with cyclosporine in bone marrow transplant recipients. Krüger HU, et al. **Antimicrob Agents Chemother** 1990 Jun; 34(6):1048–52

Ocular penetration of cyclosporine A in the rat eye. BenEzra D, et al. **Arch Ophthalmol** 1990 Apr;108(4):584–7

Single dose pharmacokinetics of ciclosporin and its main metabolites after oral ciclosporin as oily solution or capsule. Bleck JS, et al. **Arzneimittelforschung** 1990 Jan;40(1):62–4

Effect of enzyme induction on Sandimmun (cyclosporin A) biotransformation and hepatotoxicity in cultured rat hepatocytes and in vivo. Bouis P, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):257–66

Absorption kinetics of cyclosporine in healthy volunteers. Gupta SK, et al. **Biopharm Drug Dispos** 1989 Nov–Dec; 10(6):591–6

Lack of effect of spiramycin on cyclosporin pharmacokinetics [letter; comment] Kessler M, et al. **Br J Clin Pharmacol** 1990 Mar;29(3):370–1 Comment on: Br J Clin Pharmacol 1989 Jun;27(6):789–94.

The effect of food and bile acid administration on the relative bioavailability of cyclosporin. Lindholm A, et al. **Br J Clin Pharmacol** 1990 May;29(5):541–8

Ocular penetration of cyclosporin A. III: The human eye. BenEzra D, et al. **Br J Ophthalmol** 1990 Jun;74(6):350–2

Short-term effects of calcium antagonists on hemodynamics and cyclosporine pharmacokinetics in heart-transplant and kidney-transplant patients. Roy LF, et al. **Clin Pharmacol Ther** 1989 Dec;46(6):657–67

Bioavailability assessment of cyclosporine in the rat. Influence of route of administration. Luke DR, et al. **Drug Metab Dispos** 1990 Mar–Apr;18(2):158–62

Pharmacokinetic analysis of cyclosporine in adjuvant arthritic rats. Pollock SH, et al. **Drug Metab Dispos** 1989 Nov–Dec;17(6):595–9

Placental transfer, tissue distribution, and pharmacokinetics of cyclosporine in the pregnant rabbit. Sangalli L, et al. **Drug Metab Dispos** 1990 Jan–Feb;18(1):102–6

Pharmacokinetic interaction between cyclosporin and diltiazem. Brockmöller J, et al. **Eur J Clin Pharmacol** 1990; 38(3):237–42

Pharmacokinetics of oral cyclosporin A in diabetic children and adolescents. Misteli C, et al. **Eur J Clin Pharmacol** 1990;38(2):181–4

Penetration of cyclosporin into synovial fluid in rheumatoid arthritis. van Rijthoven AW, et al. **Eur J Clin Pharmacol** 1989;37(3):321–2

Cyclosporine pharmacokinetics and effect in the type I diabetic rat model. Brunner LJ, et al. **Eur J Drug Metab Pharmacokinet** 1989 Oct–Dec; 14(4):287–92

Bioavailability of intramuscular ciclosporin in the pig. Filipponi F, et al. **Eur Surg Res** 1990;22(1):14–8

Ocular penetration of cyclosporin A. The rabbit eye. BenEzra D, et al. **Invest Ophthalmol Vis Sci** 1990 Jul; 31(7):1362–6

Absence of significant interaction of fluconazole with cyclosporin. Krüger HU, et al. **J Antimicrob Chemother** 1989 Nov;24(5):781–6

Effect of food on the pharmacokinetics of cyclosporine in healthy subjects following oral and intravenous administration. Gupta SK, et al. **J Clin Pharmacol** 1990 Jul;30(7):643–53

Pharmacokinetics of two alternative dosage forms for cyclosporine: liposomes and intralipid. Venkataram S, et al. **J Pharm Sci** 1990 Mar;79(3):216–9

A model to account for the blood-to-plasma distribution of cyclosporin A in human blood. Shibata N, et al. **J Pharmacobiodyn** 1990 Jan;13(1):20–9

Improvement of peroral absorption of cyclosporine A by microemulsions. Ritschel WA, et al. **Methods Find Exp Clin Pharmacol** 1990 Mar;12(2):127–34

High-fat meals increase the clearance of cyclosporine. Gupta SK, et al. **Pharm Res** 1990 Jan;7(1):46–8

Kinetics of cyclosporine during plasma exchange. Mousson C, et al. **Prog Clin Biol Res** 1990;337:425–8

Single-dose cyclosporine pharmacokinetics in various biological fluids of patients receiving allogeneic marrow transplantation. Brunner LJ, et al. **Ther Drug Monit** 1990 Mar;12(2):134–8

Area-under-the-curve monitoring of cyclosporine therapy: performance of different assay methods and their target concentrations. Grevel J, et al. **Ther Drug Monit** 1990 Jan; 12(1):8–15

Therapeutic cyclosporine monitoring: comparison of radioimmunoassay and high-performance liquid chromatography methods in organ transplant recipients. Hirvisalo EL, et al. **Ther Drug Monit** 1990 Jul;12(4):353–8

Intra- and interindividual variability in the free fraction of cyclosporine in plasma in recipients of renal transplants. Lindholm A, et al. **Ther Drug Monit** 1989 Nov;11(6):623–30

Bayesian estimation of cyclosporine clearance in bone marrow graft. Serre-Debeauvais F, et al. **Ther Drug Monit** 1990 Jan;12(1):16–22

Cyclosporine pharmacokinetics in pediatric transplant recipients. Wandstrat TL, et al. **Ther Drug Monit** 1989 Sep; 11(5):493–6 (36 ref.)

Consensus document: Hawk's Cay meeting on therapeutic drug monitoring of cyclosporine. **Transplant Proc** 1990 Jun; 22(3):1357–61 (8 ref.)

Cyclosporine pharmacokinetics in the early course of renal transplantation. Albrecht K, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1719

Clinical correlations with cyclosporine blood levels after allogeneic bone marrow transplantation: an analysis of four different assays. Atkinson K, et al. **Transplant Proc** 1990 Jun;22(3):1331–4

Impact of lipoproteins on cyclosporine pharmacokinetics and biological activity in transplant patients. Awni WM, et al. **Transplant Proc** 1990 Jun;22(3):1193–6

Monitoring of cyclosporine by serial posttransplant pharmacokinetic studies in renal transplant patients. Awni WM, et al. **Transplant Proc** 1990 Jun;22(3):1343–4

Cyclosporine analysis by high-performance liquid chromatography: precision, accuracy, and minimum detectable quantity. Bowers LD. **Transplant Proc** 1990 Jun; 22(3):1150–4

Cyclosporine kinetics in pediatric patients with congestive heart failure. Burckart GJ, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1528–9

Cyclosporine measurement by FPIA, PC-RIA, and HPLC following liver transplantation. Burckart GJ, et al. **Transplant Proc** 1990 Jun;22(3):1319–22

Immunosuppressive activity and toxicity of cyclosporine metabolites characterized by mass spectroscopy and nuclear magnetic resonance. Copeland KR, et al. **Transplant Proc** 1990 Jun;22(3):1146–9

Cyclosporine and the liver: how one affects the other. de Groen PC. **Transplant Proc** 1990 Jun;22(3):1197–202 (124 ref.)

Role of bile and bile salts on cyclosporine absorption in dogs. Ericzon BG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1248–9

Filter paper sampling methodology of whole blood cyclosporine (WBCyA) concentration: a critical review. Foradori AC, et al. **Transplant Proc** 1990 Jun;22(3):1226–30

Steady-state concentrations of cyclosporine for therapeutic monitoring. Grevel J, et al. **Transplant Proc** 1990 Jun; 22(3):1339–42

Liver transplantation in Birmingham—use of cyclosporine—clinical correlations with drug measurements. Gunson BK, et al. **Transplant Proc** 1990 Jun; 22(3):1312–8

A rapid and specific assay for the du Pont aca discrete clinical analyzer, performed directly on whole blood. Hansen JB, et al. **Transplant Proc** 1990 Jun;22(3):1189–92

Long-term residual cyclosporine levels following short-term administration in various allograft models demonstrating extensive survival prolongation. Hewitt CW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1244–5

Performance of the Sandoz radioimmunoassays for cyclosporine. Holt DW, et al. **Transplant Proc** 1990 Jun; 22(3):1155–9

Quality assessment of cyclosporine measurements: comparison of current methods. Holt DW, et al. **Transplant Proc** 1990 Jun;22(3):1234–9

Influence of different parameters for the monitoring of cyclosporine. Humbert H, et al. **Transplant Proc** 1990 Jun; 22(3):1210–5

A limited sampling strategy for the measurement of cyclosporine AUC. Johnston A, et al. **Transplant Proc** 1990 Jun;22(3):1345–6

Summary on therapeutic drug monitoring for renal transplantation. Kahan BD. **Transplant Proc** 1990 Jun; 22(3):1348–51

Pharmacokinetics and metabolism of cyclosporine A in 19 hemodialysis patients. Küllinger B, et al. **Transplant Proc** 1990 Aug;22(4):1702–5

Comment to the presentation of clinical correlations with drug measurements. Land W. **Transplant Proc** 1990 Jun; 22(3):1292

Pharmacokinetics of cyclosporine: inter- and intra-individual variations and metabolic pathways. Lemaire M, et al. **Transplant Proc** 1990 Jun;22(3):1110–2 (37 ref.)

Is cyclosporine blood concentration monitoring necessary in patients treated for severe chronic plaque form psoriasis? Lindholm A, et al. **Transplant Proc** 1990 Jun;22(3):1293–5

A prospective study of cyclosporine monitoring in renal transplantation. Lindholm A. **Transplant Proc** 1990 Jun; 22(3):1260–3 (20 ref.)

Cyclophilin binding: a receptor-mediated approach to monitoring cyclosporine immunosuppressive activity following organ transplantation. Lorber MI, et al. **Transplant Proc** 1990 Jun;22(3):1240–4

Pharmacokinetics of cyclosporine A in bilateral lung transplantation candidates with cystic fibrosis. Mancel-Grosso V, et al. **Transplant Proc** 1990 Aug; 22(4):1706–7

Optimization of the blood sample filter paper technique for cyclosporine determination. Manrique RV, et al. **Transplant Proc** 1990 Jun;22(3):1231–3

Nonselective measurement of cyclosporine for therapeutic drug monitoring by fluorescence polarization immunoassay with a rabbit polyclonal antibody: I. Evaluation of the serum methodology and comparison with a sheep polyclonal antibody in an 3H-tracer mediated radioimmunoassay. Napoli KL, et al. **Transplant Proc** 1990 Jun;22(3):1175–80

Nonselective measurement of cyclosporine for therapeutic drug monitoring by fluorescence polarization immunoassay with a sheep polyclonal antibody: II. Evaluation of the whole blood methodology and comparison with an 3H tracer-mediated radioimmunoassay with a sheep polyclonal antibody. Napoli KL, et al. **Transplant Proc** 1990 Jun; 22(3):1181–5

Clinical evaluation and therapeutic range of cyclosporine A as monitored by FPIA in kidney transplantation. Nattermann U, et al. **Transplant Proc** 1990 Jun;22(3):1284–6

Elimination kinetics of cyclosporine following oral administration to children with renal transplants. Neiberger R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1525

An evaluation of cyclosporine monitoring by nonselective fluorescence polarization immunoassay. Pesce AJ, et al. **Transplant Proc** 1990 Jun;22(3):1171–4

Cyclosporine—high-dose steroid interaction in renal transplant recipients: assessment by HPLC. Ptachcinski RJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1728–9

Selection of an optimal assay method for monitoring cyclosporine therapy. Rosano TG, et al. **Transplant Proc** 1990 Jun;22(3):1125–8

Comment on cyclosporine assay techniques: an attempt for recommendations. Rosenthaler J, et al. **Transplant Proc** 1990 Jun;22(3):1160–5

Clinical correlations of cyclosporine HPLC and FPIA levels in renal transplant recipients. Sridhar N, et al. **Transplant Proc** 1990 Jun;22(3):1257–9

Japanese conference on cyclosporine blood level monitoring. Takagi H, et al. **Transplant Proc** 1990 Jun;22(3):1224–5

Effect of liver dysfunction on cyclosporine pharmacokinetics. Takaya S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1246–7

Value of cyclosporine measurements in renal transplant recipients immunosuppressed with triple therapy. Taube D, et al. **Transplant Proc** 1990 Jun;22(3):1251–2

Attempt at photonic and ultrastructural immunohistochemical localization of cyclosporine A in rat kidney and liver. Tricottet V, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1221–2

Comparative pharmacokinetics of cyclosporine and NVa2-cyclosporine in dogs. Venkataramanan R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1265–6

French multicentre study: comparison of two specific and four nonspecific methods for Sandimmune (cyclosporine) blood and plasma (separated at 37 degrees C or at 22 degrees C) monitoring. Vernillet L, et al. **Transplant Proc** 1990 Jun;22(3):1218–23

A monoclonal antibody fluorescent polarization immunoassay for cyclosporine. Wang P, et al. **Transplant Proc** 1990 Jun;22(3):1186–8

Impaired cyclosporine absorption after delayed native pancreatectomy in canine whole pancreas transplantation. Wilson TG, et al. **Transplant Proc** 1989 Oct;21(5):3799–800

Quality assessment of cyclosporine monitoring—Canadian validations. Wong PY, et al. **Transplant Proc** 1990 Jun; 22(3):1216–7

Specific and nonspecific monoclonal 125I-Incstar assays. Wong PY, et al. **Transplant Proc** 1990 Jun;22(3):1166–70

Cyclosporine monitoring in liver allograft recipients: two distinct patterns of blood level derangement associated with nephrotoxicity. Wonigeit K, et al. **Transplant Proc** 1990 Jun;22(3):1305–11

Effect of age on cyclosporine pharmacokinetics in marrow transplant recipients. Yee GC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1704–5

Pharmacokinetic and pharmacodynamic studies of cyclosporine in bone marrow transplantation. Yee GC. **Transplant Proc** 1990 Jun;22(3):1327–30 (31 ref.)

Pharmacokinetic interactions between cyclosporine and other drugs. Yee GC. **Transplant Proc** 1990 Jun;22(3):1203–7 (44 ref.)

Cyclosporine pharmacokinetics in a lung transplant patient undergoing hemofiltration. Cleary JD, et al. **Transplantation** 1989 Oct;48(4):710–2

Cyclosporine bioavailability in heart-lung transplant candidates with cystic fibrosis. Cooney GF, et al. **Transplantation** 1990 Apr;49(4):821–3

The effect of renal ischemia on cyclosporine clearance in rabbits. Karim MS, et al. **Transplantation** 1990 Mar; 49(3):500–2

[Oral cyclosporine pharmacokinetics in renal transplantation patients] Zhuo HT, et al. **Yao Hsueh Hsueh Pao** 1990; 25(1):1–5 (Eng. Abstr.) (Chi)

[Nyctohemeral variations of cyclosporine administered orally in renal transplant patients] Ramon M, et al. **Therapie** 1989 Sep–Oct;44(5):371–4 (Eng. Abstr.) (Fre)

[Tissue levels of locally applied cyclosporin A in the rabbit eye] Stamer L, et al. **Fortschr Ophthalmol** 1989;86(5):540–2 (Eng. Abstr.) (Ger)

PHARMACOLOGY

Effects of cyclosporin A on cultured human epidermal keratinocytes. Growth and 5-bromo-2'-deoxyuridine incorporation. Ramirez-Bosca A, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):6–10

Effects of cyclosporin A on psoriatic monocyte functions and secretion. Pigatto PD, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:165–7

Immunological changes following treatment of psoriasis with cyclosporin. Tigalonowa M, et al.
Acta Derm Venereol Suppl (Stockh) 1989;146:142–5; discussion 146

"In vitro" cyclosporin and methylprednisolone interaction with cytochrome P-450. Fracasso ME, et al.
Acta Physiol Hung 1990;75 Suppl:111–2

The effect of cyclosporine on urinary kallikrein excretion in patients with rheumatoid arthritis. Spragg J, et al.
Adv Exp Med Biol 1989;247A:389–92

Inhibition of histamine release from human lung and rat peritoneal mast cells by cyclosporin–A. Ezeamuzie IC, et al. **Agents Actions** 1990 Apr;30(1–2):110–3

Effects of cyclosporin and chloroquine on the mitogen–driven cell proliferation and Ig production of human mononuclear cells. van Loenen HJ, et al.
Agents Actions 1990 Jan;29(1–2):103–4

Anti–inflammatory effects of cyclosporin A (CsA) in carrageheenan–induced pleurisy in rats.
Wiesenberg–Böttcher I, et al. **Agents Actions** 1990 Jan; 29(1–2):105–7

Ciclosporin–nicardipine interaction [letter] Deray G, et al. **Am J Nephrol** 1989;9(4):349

Vascular effects of cyclosporine A in vivo and in vitro. Ferns G, et al. **Am J Pathol** 1990 Aug;137(2):403–13

Patterns of MHC antigenic modulation in cyclosporine–induced autoimmunity. Implications for pathogenesis. Parfrey NA, et al. **Am J Pathol** 1990 Feb; 136(2):479–86

Acute cyclosporine–induced renal vasoconstriction: lack of effect of theophylline. Churchill PC, et al.
Am J Physiol 1990 Jan;258(1 Pt 2):F41–5

Cyclosporine augments renal but not systemic vascular reactivity. Garr MD, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F211–7

Cyclosporine augments renal mitochondrial function in vivo and reduces renal blood flow. Lemmi CA, et al.
Am J Physiol 1989 Nov;257(5 Pt 2):F837–41

Altered pressor responses to NE and ANG II during cyclosporin A administration to conscious rats. Textor SC, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H854–60

Acute effect of cyclosporin on inner medullary blood flow in normal and postischemic rat kidney. Yagil Y.
Am J Physiol 1990 May;258(5 Pt 2):F1139–44

Growth of human colorectal carcinoma implants in the mouse subrenal capsule assay. Kouri M, et al.
Ann Chir Gynaecol 1989;78(2):110–4

Limb allotransplantation in the rat: extended survival and return of nerve function with continuous cyclosporin/prednisone immunosuppression. Press BH, et al. **Ann Plast Surg** 1986 Apr;16(4):313–21

Cyclosporine. An immunosuppressant affecting epithelial cell proliferation. Kanitakis J, et al. **Arch Dermatol** 1990 Mar; 126(3):369–75 (86 ref.)

Cyclosporine inhibits basic fibroblast growth factor–driven proliferation of human endothelial cells and keratinocytes. Sharpe RJ, et al. **Arch Dermatol** 1989 Oct;125(10):1359–62

Cyclosporin A inhibits phorbol ester–induced activation of superoxide production in resident mouse peritoneal macrophages. Chiara MD, et al. **Biochem J** 1989 Nov 15; 264(1):21–6

Partial inhibition by cyclosporin A of the swelling of liver mitochondria in vivo and in vitro induced by sub–micromolar [Ca2+], but not by butyrate. Evidence for two distinct swelling mechanisms. Davidson AM, et al. **Biochem J** 1990 May 15;268(1):147–52

Inhibition of Ca2(+)–induced large–amplitude swelling of liver and heart mitochondria by cyclosporin is probably caused by the inhibitor binding to mitochondrial–matrix peptidyl–prolyl cis–trans isomerase and preventing it interacting with the adenine nucleotide translocase. Halestrap AP, et al. **Biochem J** 1990 May 15;268(1):153–60

Kinetics of cyclosporine A–induced inhibition of succinate–coenzyme Q dehydrogenase in rat renal cortical mitochondria. Lemmi CA, et al.
Biochem Med Metab Biol 1990 Jun;43(3):214–25

Inhibition of prostacyclin formation by cyclosporin is not due to reduced availability of arachidonic acid in membrane phospholipids of cultured human endothelial cells. Brown Z, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1136–8

A new proposal for the mechanism of cyclosporine A nephrotoxicity. Inhibition of renal microsomal protein chain elongation following in vivo cyclosporine A. Buss WC, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4085–93

Cyclosporine A inhibits mitochondrial pyridine nucleotide hydrolysis and calcium release. Richter C, et al.
Biochem Pharmacol 1990 Aug 15;40(4):779–82

Influence of lovastatin on the pharmacokinetics, toxicity and immunologic response of cyclosporine in the obese Zucker rat. Berens KL, et al. **Biopharm Drug Dispos** 1990 Apr; 11(3):197–206

Verapamil and cyclosporin A sensitize human kidney tumor cells to vincristine in absence of membrane P–glycoprotein and without apparent changes in the cytoplasmic free Ca2+ concentration. Nygren P, et al. **Biosci Rep** 1990 Apr; 10(2):231–7

Cyclosporine–induced graft–versus–host disease following autologous bone marrow transplantation in acute myeloid leukaemia. Talbot DC, et al. **Bone Marrow Transplant** 1990 Jul;6(1):17–20

Cyclosporin A and verapamil have different effects on energy metabolism in multidrug–resistant tumour cells.
Broxterman HJ, et al. **Br J Cancer** 1990 Jul;62(1):85–8

Overcoming multidrug resistance in Chinese hamster ovary cells in vitro by cyclosporin A (Sandimmune) and non–immunosuppressive derivatives. Gavériaux C, et al. **Br J Cancer** 1989 Dec;60(6):867–71

Chemosensitisation by verapamil and cyclosporin A in mouse tumour cells expressing different levels of P–glycoprotein and CP22 (torcin). Twentyman PR, et al. **Br J Cancer** 1990 Jul;62(1):89–95

Is cyclosporin A an inhibitor of drug metabolism? Li G, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):71–7

The effect of cyclosporin on human epidermal keratinocytes in vitro. Dykes PJ, et al. **Br J Dermatol** 1990 Feb; 122(2):173–80

Time–dependent inhibition of growth of human keratinocytes and fibroblasts by cyclosporin A: effect on keratinocytes at therapeutic blood levels. Sharpe GR, et al.
Br J Dermatol 1990 Aug;123(2):207–13

Cyclosporin therapy in vivo attenuates the response to vasodilators in the isolated perfused kidney of the rabbit. Cairns HS, et al. **Br J Pharmacol** 1989 Oct;98(2):463–8

Patterns of immune rejection of mouse neocortex transplanted into neonatal rat brain, and effects of host immunosuppression. Marion DW, et al. **Brain Res** 1990 Jun 11;519(1–2):133–43

Cyclosporines: correlation of immunosuppressive activity and inhibition of bone resorption. Stewart PJ, et al.
Calcif Tissue Int 1989 Oct;45(4):222–6

The effect of cyclosporine A on bile secretion in dogs. Sutherland FR, et al. **Can J Physiol Pharmacol** 1990 Jan; 68(1):136–8

Cyclosporin A exerts a cytostatic effect in vivo on human and murine epithelial cells. Ramirez–Bosca A, et al.
Cancer 1990 Sep 1;66(5):936–40

Activity of cyclosporin A and a non–immunosuppressive cyclosporin against multidrug resistant leukemic cell lines. Hait WN, et al. **Cancer Commun** 1989;1(1):35–43

Effects of cyclosporin on C57BL/6 splenocytes before and after culture with high–dose recombinant interleukin–2: implications for immunosuppression with cyclosporin. Sutherland F, et al. **Cancer Immunol Immunother** 1990; 31(5):312–20

Effects of cyclosporine A on Ia antigen expression in N–nitroso–N–methylurea–induced rat mammary tumors. Bernard DJ, et al. **Cancer Res** 1990 Jun 1;50(11):3301–5

Enhancement of anthracycline growth inhibition in parent and multidrug–resistant Chinese hamster ovary cells by cyclosporin A and its analogues. Chambers SK, et al.
Cancer Res 1989 Nov 15;49(22):6275–9

Combined use of cyclosporin A and verapamil in modulating multidrug resistance in human leukemia cell lines. Hu XF, et al. **Cancer Res** 1990 May 15;50(10):2953–7

Effects of cyclosporine A on thymocyte differentiation in fetal thymus organ culture. Matsuhashi N, et al.
Cell Immunol 1989 Oct 15;123(2):307–15

Suppressor cell regulation of encephalitogenic T cell lines: generation of suppressor macrophages with cyclosporin A and myelin basic protein. Whitham RH, et al.
Cell Immunol 1990 Apr 1;126(2):290–303

Multiple low dose streptozocin–treated rats: biochemical and morphological effects of cyclosporin A administration. Papaccio G, et al. **Cell Mol Biol** 1989;35(4):409–20

Absence of effects of cyclosporine on myocardial lymphocyte subsets in Coxsackievirus B3 myocarditis in the aviremic stage. Kishimoto C, et al. **Circ Res** 1989 Oct; 65(4):934–45

Cyclosporine does not interfere in total and high–density lipoprotein cholesterol measurement with use of enzymatic cholesterol assays. Sgoutas DS, et al. **Clin Chem** 1989 Nov; 35(11):2251–2

The effect of cyclosporin A on the interstitial mononuclear cell infiltration and the induction of Heymann's nephritis. Grönhagen–Riska C, et al. **Clin Exp Immunol** 1990 Feb; 79(2):266–72

Dihydrocyclosporin D in sheep: haemodynamic and renal effects. Tresham JJ, et al. **Clin Exp Pharmacol Physiol** 1988 May;15(5):419–25

Effect of cyclosporin A on serum lipids in primary biliary cirrhosis patients. Parsons HG, et al. **Clin Invest Med** 1989 Dec;12(6):386–91

Update on topical cyclosporin A. Background, immunology, and pharmacology. Belin MW, et al. **Cornea** 1990 Jul; 9(3):184–95 (84 ref.)

Immunological actions of corticosteroids and cyclosporine A. Dupont E. **Curr Opin Immunol** 1988 Dec;1(2):253–6 (16 ref.)

Cyclosporin A: recent developments in the mechanism of action and clinical application. Feutren G.
Curr Opin Immunol 1989 Dec;2(2):239–45 (35 ref.)

Effect of cyclosporin on pancreatic events and development of diabetes in BB/Edinburgh rats. Bone AJ, et al.
Diabetes 1990 Apr;39(4):508–14

Demonstration of donor specific unresponsiveness in rat islet allografts: importance of transplant site for induction by cyclosporin A and maintenance. Kamei T, et al.
Diabetologia 1989 Nov;32(11):779–85

Cyclosporine augments hepatic regenerative response in rats. Kahn D, et al. **Dig Dis Sci** 1990 Mar;35(3):392–8

Clearance of prednisone in isolated perfused livers of normal and uremic rats. Effects of acute and chronic cyclosporin A administration. Egfjord M, et al. **Drug Metab Dispos** 1990 Mar–Apr;18(2):231–7

Cyclosporin A suppresses the expression of the interleukin 2 gene by inhibiting the binding of lymphocyte–specific factors to the IL–2 enhancer. Randak C, et al.
EMBO J 1990 Aug;9(8):2529–36

Cyclosporin A inhibits rat mast cell activation. Dráberová L. **Eur J Immunol** 1990 Jul;20(7):1469–73

Inhibition of interleukin 4 receptor expression on human lymphoid cells by cyclosporin. Foxwell BM, et al.
Eur J Immunol 1990 May;20(5):1185–8

Inhibition of T cell development in thymic organ culture: implications for the mechanism of action of cyclosporin A. Siegel RM, et al. **Eur J Immunol** 1990 Apr;20(4):753–7

Stimulatory effect of cyclosporine A on endothelin secretion by a cultured renal epithelial cell line, LLC–PK1 cells. Nakahama H. **Eur J Pharmacol** 1990 May 3;180(1):191–2

Use of verapamil with conventional immunosuppression after porcine renal transplantation. Kahn D, et al.
Eur Surg Res 1989;21(3–4):156–61

Assessment of purging with multidrug resistance (MDR) modulators and VP–16: results of long–term marrow culture. Aihara M, et al. **Exp Hematol** 1990 Sep;18(8):940–4

Cluster formation of canine dendritic cells and lymphocytes is calcium dependent and not inhibited by cyclosporine. Aprile J, et al. **Exp Hematol** 1990 Jan;18(1):32–6

Differential inhibition by cyclosporin A reveals two pathways for activation of lymphokine synthesis in T cells. Kelso A, et al. **Growth Factors** 1989;1(2):165–77

Prevention of adjuvant–induced cachexia in rats by cyclosporin A. Rofe AM, et al. **Immunol Cell Biol** 1990 Feb;68 (Pt 1):63–9

The effect of cyclosporine on expression of class II major histocompatibility complex antigens on bronchoalveolar cells and peripheral blood mononuclear cells. Chang SC, et al. **Immunol Lett** 1990 Feb;23(4):299–303

Direct effect of cyclosporin A on CD8+ T lymphocytes in a primary mixed lymphocyte reaction. Kiziroglu F, et al. **Immunol Lett** 1990 May;24(2):77–86

Anti–CD3 antibody–induced expression of both p55 and p75 chains of the high affinity interleukin–2 receptor on human T lymphocytes is inhibited by cyclosporin A. Foxwell BM, et al. **Immunology** 1990 Jan;69(1):104–9

Cyclosporin A prevents the in vivo development of murine prothymocytes from uncommitted (Thy–1–) precursor cells. Huby RD, et al. **Immunology** 1989 Dec;68(4):564–9

Pretreatment with phenobarbitone modifies suppressant effect of cyclosporine on wound healing. Sequeira RP, et al. **Indian J Exp Biol** 1989 Jan;27(1):41–3

Comparison of immunosuppressive effects of cyclosporine A in a murine model of systemic candidiasis and of localized thrushlike lesions. Krause MW, et al.
Infect Immun 1989 Nov;57(11):3472–8

Induction of suppressor cell activity by cyclosporin A and/or uremic serum in normal versus uremic peripheral blood mononuclear cells. Modai D, et al.
Int Arch Allergy Appl Immunol 1990;91(3):291–6

Pharmacological modification of multi–drug resistance (MDR) in vitro detected by a novel fluorometric microculture cytotoxicity assay. Reversal of resistance and selective cytotoxic actions of cyclosporin A and verapamil on MDR leukemia T–cells. Larsson R, et al.
Int J Cancer 1990 Jul 15;46(1):67–72

Expression of the mdr3 gene in prolymphocytic leukemia: association with cyclosporin–A–induced increase in drug accumulation. Nooter K, et al. **Int J Cancer** 1990 Apr 15; 45(4):626–31

Overexpression of the mdr1 gene in blast cells from patients with acute myelocytic leukemia is associated with decreased anthracycline accumulation that can be restored by cyclosporin–A. Nooter K, et al. **Int J Cancer** 1990 Feb 15;45(2):263–8

Effects of cyclosporin A and verapamil on the intracellular daunorubicin accumulation in Chinese hamster ovary cells with increasing levels of drug–resistance. Silbermann MH, et al. **Int J Cancer** 1989 Oct 15;44(4):722–6

Pharmacokinetics of roxithromycin in kidney grafted patients under cyclosporin A or azathioprine immunosuppression and in healthy volunteers. Morávek J, et al.
Int J Clin Pharmacol Ther Toxicol 1990 Jun;28(6):262–7

In vivo effects of cyclosporin A on murine B–cells responding to type III pneumococcal polysaccharide. Sozzani S, et al. **Int J Immunopharmacol** 1990;12(4):359–64

Dose–dependent inhibition by cyclosporine A of the induction of pancreatic ornithine decarboxylase (ODC) in rats. Löser C, et al. **Int J Pancreatol** 1989 Sep;5(2):179–89

Cyclosporine in dermatology. Gupta AK, et al.
J Am Acad Dermatol 1989 Dec;21(6):1245–56 (152 ref.)

Cyclosporine: its effects on testicular function and fertility in the prepubertal rat. Seethalakshmi L, et al. **J Androl** 1990 Jan–Feb;11(1):17–24

Phagocyte oxidative metabolism in cyclosporine– or placebo–treated patients with insulin–dependent (type I) diabetes mellitus of recent onset. Descamps–Latscha B, et al. **J Autoimmun** 1990 Apr;3(2):201–13

Cyclosporin A suppresses cisplatin–induced c–fos gene expression in ovarian carcinoma cells. Kashani–Sabet M, et al. **J Biol Chem** 1990 Jul 5;265(19):11285–8

Competitive interaction of cyclosporins with the Vinca alkaloid–binding site of P–glycoprotein in multidrug–resistant cells. Tamai I, et al. **J Biol Chem** 1990 Sep 25;265(27):16509–13

Reconstructive allotransplantation: considerations regarding integumentary/musculoskeletal grafts, cyclosporine,

wound coverage in thermal injury, and the immune response. Hewitt CW, et al. **J Burn Care Rehabil** 1990 Jan–Feb;11(1):74–85 (170 ref.)

Effects of cyclosporine on puromycin aminonucleoside–induced nephrotic rats. Shibasaki T, et al. **J Chemother** 1989 Jun;1(3):211–5

Longitudinal study of cyclosporine and lipids in patients undergoing bone marrow transplantation. Luke DR, et al. **J Clin Pharmacol** 1990 Feb;30(2):163–9

Lymphokine gene expression in vivo is inhibited by cyclosporin A. Granelli-Piperno A. **J Exp Med** 1990 Feb 1;171(2):533–44

Cyclosporin A inhibition of interleukin 2 gene expression, but not natural killer cell proliferation, after interferon induction in vivo. Kasaian MT, et al. **J Exp Med** 1990 Mar 1;171(3):745–62

An in vitro model for cyclosporin A–induced interference of intrathymic clonal elimination. Kosaka H, et al. **J Exp Med** 1990 Jul 1;172(1):395–8

Perforin and serine esterase gene expression in stimulated human T cells. Kinetics, mitogen requirements, and effects of cyclosporin A. Liu CC, et al. **J Exp Med** 1989 Dec 1;170(6):2105–18

Cyclosporin A modulation of the acute inflammatory response: an explanation for the effect of CsA on host defences in infection. Ormrod DJ, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):69–82

The effects of cyclosporin A on glucose homeostasis and the kidney in the normal rat. Whiting PH, et al. **J Exp Pathol (Oxford)** 1990 Apr;71(2):245–55

Possible interaction between cyclosporine and josamycin [letter] Azanza J, et al. **J Heart Transplant** 1990 May–Jun; 9(3 Pt 1):265–6

Cyclosporin A inhibits endothelium–dependent, prostanoid–induced relaxation in human subcutaneous resistance vessels. Richards NT, et al. **J Hypertens** 1990 Feb;8(2):159–63

Effect of cyclosporin A on the ontogeny of different T cell sublineages in chickens. Bucy RP, et al. **J Immunol** 1990 May 1;144(9):3257–65

Cyclosporin A rapidly inhibits mediator release from human basophils presumably by interacting with cyclophilin. Cirillo R, et al. **J Immunol** 1990 May 15;144(10):3891–7

Differential sensitivity of human T helper cell pathways by in vitro exposure to cyclosporin A. Clerici M, et al. **J Immunol** 1990 Apr 1;144(7):2480–5

IL–2 can enhance the cyclosporin A–mediated inhibition of Theileria parva–infected T cell proliferation. Eichhorn M, et al. **J Immunol** 1990 Jan 15;144(2):691–8

Coordinate expression of src family protooncogenes in T cell activation and its modulation by cyclosporine. Furue M, et al. **J Immunol** 1990 Jan 15;144(2):736–9

Development of precytotoxic T cells in cyclosporine–suppressed mixed lymphocyte reactions. Hooton JW, et al. **J Immunol** 1990 Feb 1;144(3):816–23

Cyclosporin A inhibits degranulation of rat basophilic leukemia cells and human basophils. Inhibition of mediator release without affecting PI hydrolysis or Ca2+ fluxes. Hultsch T, et al. **J Immunol** 1990 Apr 1;144(7):2659–64

Effects of cyclosporin A on IL–2 production and lymphocyte proliferation during infection of mice with lymphocytic choriomeningitis virus. Kasaian MT, et al. **J Immunol** 1990 Jan 1;144(1):299–306

Effect of cyclosporin A on lymphopoiesis. II. Developmental defects of immature and mature thymocytes in fetal thymus organ cultures treated with cyclosporin A. Kosugi A, et al. **J Immunol** 1989 Nov 15;143(10):3134–40

Cyclosporin a modulation of tumor necrosis factor gene expression and effects in vitro and in vivo. Nguyen DT, et al. **J Immunol** 1990 May 15;144(10):3822–8

Mechanism of action of cyclosporine A in vivo. II. T cell priming in vivo to alloantigen can be mediated by an IL–2–independent cyclosporine A–resistant pathway. Pereira GM, et al. **J Immunol** 1990 Mar 15;144(6):2109–16

Site-specific suppression of cell–mediated immunity by cyclosporine. Black KS, et al. **J Invest Dermatol** 1990 May; 94(5):644–8

Mechanisms of cyclosporine A inhibition of antigen–presenting activity in uninvolved and lesional psoriatic epidermis. Cooper KD, et al. **J Invest Dermatol** 1990 May;94(5):649–56

Inhibition of 125I–epidermal growth factor binding to cultured keratinocytes by antiproliferative molecules gamma interferon, cyclosporin A, and transforming growth factor–beta. Nickoloff BJ, et al. **J Invest Dermatol** 1989 Dec;93(6):799–803

Immunosuppressive effect of cyclosporin A on resistance to systemic infection with Candida albicans. Vecchiarelli A, et al. **J Med Microbiol** 1989 Nov;30(3):183–92

Expression of mdr1 and mdr3 multidrug–resistance genes in human acute and chronic leukemias and association with stimulation of drug accumulation by cyclosporine. Herweijer H, et al. **J Natl Cancer Inst** 1990 Jul 4; 82(13):1133–40

Antigen–specific suppressor macrophages induced by culture with cyclosporine A plus acetylcholine receptor. McIntosh KR, et al. **J Neuroimmunol** 1989 Nov;25(1):75–89

Combined treatment with cyclosporin A and cortisone acetate minimizes the adverse bone effects of either agent alone. Movsowitz C, et al. **J Orthop Res** 1990 Sep; 8(5):635–41

Importance of lymphokines in the control of multiplication and dispersion of Leishmania donovani within liver macrophages of resistant and susceptible mice. Olivier M, et al. **J Parasitol** 1989 Oct;75(5):720–7

Regulation of human gingival fibroblast growth and synthetic activity by cyclosporine–A in vitro. Bartold PM. **J Periodont Res** 1989 Sep;24(5):314–21

Cyclosporin treatment alters prostanoid and thromboxane production by rat isolated kidney mitochondria. Erman A, et al. **J Pharm Pharmacol** 1990 Mar;42(3):181–5

Kinetics of drug action in disease states. XXXVI: Effect of cyclosporine on the pharmacodynamics and pharmacokinetics of a barbiturate (heptabarbital) in rats. Hoffman A, et al. **J Pharm Sci** 1990 Jan;79(1):19–22

Inhibition of bile acid transport by cyclosporine A in rat liver plasma membrane vesicles. Moseley RH, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):974–80

Mechanism of cyclosporin potentiation of vasoconstriction of the isolated rat mesenteric arterial bed: role of extracellular calcium. Rego A, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):799–808

Attenuation of vascular relaxation and cyclic GMP responses by cyclosporin A. Rego A, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):165–70

Adverse effects of cyclosporine on islet growth and differentiation. Healey MA, et al. **J Surg Res** 1990 Jun; 48(6):557–61

Decrease in cyclosporin–mediated prostacyclin production in renal versus carotid arteries: a mechanism for cyclosporin–induced hypertension. Hoover EL, et al. **J Surg Res** 1990 May;48(5):481–4

Cyclosporine inhibits the development of medial thickening after experimental arterial injury. Wengrovitz M, et al. **J Vasc Surg** 1990 Jul;12(1):1–7

Phytohemagglutinin–induced activity of cyclic AMP (cAMP) response elements from cytomegalovirus is reduced by cyclosporine and synergistically enhanced by cAMP. Niller HH, et al. **J Virol** 1990 May;64(5):2388–91

Inducible nuclear factor binding to the kappa B elements of the human immunodeficiency virus enhancer in T cells can be blocked by cyclosporin A in a signal–dependent manner. Schmidt A, et al. **J Virol** 1990 Aug;64(8):4037–41

Synergistic effect of cyclosporin A and verapamil in overcoming vincristine resistance of multidrug–resistant cultured human leukemia cells. Ishida Y, et al. **Jpn J Cancer Res** 1990 Aug;81(8):834–41

The effects of ciclosporin on the renal histopathological aspects in (NZB x NZW)F1 mice. Nishikawa M, et al. **Jpn J Exp Med** 1989 Aug;59(4):167–72

Cyclosporine G and D in experimental autoimmune uveoretinitis in the rat. Kawashima H, et al. **Jpn J Ophthalmol** 1989;33(4):425–40

Effect of cyclosporin A on renal function and kidney growth in the uninephrectomized rat. Batlle DC, et al. **Kidney Int** 1990 Jan;37(1):21–8

Effect of cyclosporin A on carbohydrate metabolism of isolated rat liver cells. Riegel W, et al. **Kidney Int Suppl** 1989 Nov;27:S236–8

Differences in activity of minoxidil and cyclosporin A on hair growth in nude and normal mice. Comparisons of in vivo and in vitro studies. Buhl AE, et al. **Lab Invest** 1990 Jan;62(1):104–7

Cyclosporin A prevents proteinuria in an active model of membranous nephropathy in rats. Thaiss F, et al. **Lab Invest** 1989 Dec;61(6):661–9

Augmentation of rat liver regeneration by FK 506 compared with cyclosporin. Francavilla A, et al. **Lancet** 1989 Nov 25;2(8674):1248–9

Potential protection by cyclosporin against glucocorticoid effects on bone [letter] Kelly PJ, et al. **Lancet** 1989 Dec 9;2(8676):1388

Effect of cyclosporin A on rat kidney catecholamines. Duruibe VA, et al. **Life Sci** 1990;47(4):255–61

Effect of cyclosporin A on aldosterone production by dispersed rabbit adreno–capsular cells. Morishita R, et al. **Life Sci** 1990;46(26):1985–9

The effect of cyclosporine A on renal and hepatic microsomal mixed function oxidase systems in rats. Machková Z, et al. **Methods Find Exp Clin Pharmacol** 1990 May; 12(4):239–44

Role of prostaglandin E1 analogue in the prevention of acute graft rejection by cyclosporine [letter] **N Engl J Med** 1990 Sep 20;323(12):831–3

Effect of cyclosporine on atrial natriuretic factor in patients with uveitis [letter] Deray G, et al. **N Engl J Med** 1990 Feb 1;322(5):336

Sensitivity to cyclosporin A is mediated by cyclophilin in Neurospora crassa and Saccharomyces cerevisiae. Tropschug M, et al. **Nature** 1989 Dec 21–28; 342(6252):953–5

Interaction of cyclosporine–A with the renin–angiotensin system in canine veins. Müller–Schweinitzer E. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Aug; 340(2):252–7

Renal haemodynamic effects of short term cyclosporin A administration in patients with insulin–dependent diabetes mellitus. Hannedouche T, et al. **Nephrol Dial Transplant** 1990;5(3):168–73

Effects of cyclosporin A on susceptibility and interferon–generating capacity in mice infected with Toxoplasma gondii. Shirahata T, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):387–93

Cyclosporine inhibition of azaserine–induced atypical acinar cell foci in rat pancreas. Shinozuka H, et al. **Pancreas** 1990 Jul;5(4):389–93

Toxicity of cyclosporin A (CsA) against developmental stages of Schistosoma mansoni in mice. Munro GH, et al. **Parasitology** 1990 Feb;100 Pt 1:29–34

Effects of steroids and cyclosporin A on compensatory renal growth and plasma electrolytes in rats. Kinson GA. **Pharmacol Res** 1990 Jul–Aug;22(4):455–62

Pharmacology of cyclosporine (sandimmune). **Pharmacol Rev** 1990 Sep;41(3):239–434

Pharmacology of cyclosporine (sandimmune). I. Introduction. Borel JF, et al. **Pharmacol Rev** 1990 Sep; 41(3):239–42 (55 ref.)

Pharmacology of cyclosporine (sandimmune). IV. Pharmacological properties in vivo [published erratum appears in Pharmacol Rev 1990 Jun;42(2):125] Borel JF. **Pharmacol Rev** 1990 Sep;41(3):259–371 (1024 ref.)

Pharmacology of cyclosporine (sandimmune). V. Pharmacological effects on immune function: in vitro studies. Di Padova FE. **Pharmacol Rev** 1990 Sep; 41(3):373–405 (444 ref.)

Pharmacology of cyclosporine (sandimmune). III. Immunochemistry and monitoring. Quesniaux VF. **Pharmacol Rev** 1990 Sep;41(3):249–58 (103 ref.)

Pharmacology of cyclosporine. VI. Cellular activation: regulation of intracellular events by cyclosporine. Ryffel B. **Pharmacol Rev** 1990 Sep;41(3):407–22 (172 ref.)

Acute inhibition of human renal tubular cell growth by cyclosporin A. Blaehr H, et al. **Pharmacol Toxicol** 1990 Feb;66(2):115–20

The interaction between cyclosporin A and erythromycin studied by means of an isolated perfused rat liver model. Fabre I, et al. **Pharmacol Toxicol** 1989 Sep;65(3):198–203

Effect of ciclosporin on rat liver and kidney glutathione content. Duruibe VA, et al. **Pharmacology** 1989; 39(4):205–12

Influence of ciclosporin on epidermal proliferation after mechanical skin irritation. Kietzmann M, et al. **Pharmacology** 1990;40(2):122–8

Maturation of resistance to salmonellosis in newly hatched chicks: inhibition by cyclosporine. Ziprin RL, et al. **Poult Sci** 1989 Dec;68(12):1637–42

Peptidyl–prolyl cis–trans–isomerase from Escherichia coli: a periplasmic homolog of cyclophilin that is not inhibited by cyclosporin A. Liu J, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4028–32

Cyclosporine A induced lipid peroxidation and influence on glucose–6–phosphatase in rat hepatic and renal microsomes. Inselmann G, et al. **Res Commun Chem Pathol Pharmacol** 1990 May; 68(2):189–203

Effect of cyclosporine on oxidative phosphorylation and adenylate energy charge of regenerating rat liver. Uemoto S, et al. **Res Exp Med (Berl)** 1989;189(5):313–20

Infection and cyclosporine. Kim JH, et al. **Rev Infect Dis** 1989 Sep–Oct;11(5):677–90 (150 ref.)

Interactions of cyclosporine with antimicrobial agents [see comments] Sands M, et al. **Rev Infect Dis** 1989 Sep–Oct; 11(5):691–7 (52 ref.) Comment in: Rev Infect Dis 1990 Mar–Apr;12(2):371.

Ciclosporin–dependent, nu–independent, mucosal interleukin 6 response to gram–negative bacteria. Hedges S, et al. **Scand J Immunol** 1990 Mar;31(3):335–43

Cyclosporine A prevents the generation of single positive (Lyt2+ L3T4–, Lyt2– L3T4+) mature T cells, but not single positive (Lyt2+ T3–) immature thymocytes, in newborn mice. Heeg K, et al. **Scand J Immunol** 1989 Dec; 30(6):703–10

Ciclosporin–induced immunosuppression in vitro. II. Variation in sensitivity and binding capacity. Povlsen JV, et al. **Scand J Immunol** 1990 Jul;32(1):45–51

The influence of FK–506 and low–concentration ciclosporin on human lymphocyte activation antigen expression and blastogenesis: a flow cytometric analysis. Woo J, et al. **Scand J Immunol** 1990 Mar;31(3):297–304

Cyclosporin A specifically inhibits function of nuclear proteins involved in T cell activation. Emmel EA, et al. **Science** 1989 Dec 22;246(4937):1617–20

Effects of ciclosporin and protein synthesis inhibitors on cutaneous inflammation in mouse skin. Griffiths RJ, et al. **Skin Pharmacol** 1989;2(1):30–7

Ciclosporin inhibits phorbol–ester–induced hyperplastic transformation and tumor promotion in mouse skin probably by suppression of Ca2+/calmodulin–dependent processes such as phosphorylation of elongation factor 2. Gschwendt M, et al. **Skin Pharmacol** 1988;1(2):84–92

Nonimmunosuppressive ciclosporin H inhibits the growth and DNA synthesis of cultured normal human epidermal keratinocytes. Ramirez–Bosca A, et al. **Skin Pharmacol** 1989;2(3):175–9

Vasoactive pharmacologic responses of human skin xenografts in ciclosporin–treated rats. Salm M, et al. **Skin Pharmacol** 1989;2(3):168–74

Ciclosporin A initiates active hair growth in mice. Urabe A, et al. **Skin Pharmacol** 1988;1(4):269–71

Cyclosporine A reduces cerebral vasospasm after subarachnoid hemorrhage in dogs. Peterson JW, et al. **Stroke** 1990 Jan;21(1):133–7

The hepatotropic influence of cyclosporine. Mazzaferro V, et al. **Surgery** 1990 May;107(5):533–9

Onset and development of cyclosporin A effects on lymphocytes of cardiac patients before heart

transplantation. Albengres E, et al. **Ther Drug Monit** 1990 Jan;12(1):2–7

Cyclosporine A prevents the generation of single positive mature T cells in newborn mice. Heeg K, et al. **Thymus** 1989;14(1–3):151–4

The effect of cyclosporine on murine thymic epithelial cells—an immunohistochemical study. Hiramine C, et al. **Thymus** 1989;14(4):213–21

Cyclosporine A inhibition of microcystin toxins. Stoner RD, et al. **Toxicon** 1990;28(5):569–73

An in vivo study on the effect of the immunosuppressant drug cyclosporin in malaria-infected mice. Somasundaram C, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):71

Effect of cyclosporin A, azathioprine, and prednisolone on carbohydrate metabolism of rat hepatocytes. Riegel W, et al. **Transpl Int** 1990 May;3(1):2–7

Ketoconazole potentiates cyclosporine immunosuppression and toxicity in mice. Anderson JE, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1267–8

Blockade of T-dependent major histocompatibility complex induction: a key immunosuppresive effect of cyclosporine. Autenried P, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1184–5

Cyclosporine: glomerular hemodynamics. Barros EJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1754

Cyclosporine inhibition of insulin secretion: effect of tolbutamide and extracellular calcium concentration. Bartlett ST, et al. **Transplant Proc** 1990 Apr;22(2):749–53

Thymic major histocompatibility complex antigen expression and suppresor cell sparing by cyclosporine. Brayman KL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1181–3

Cyclosporine inhibits prostacyclin production by cultured human endothelial cells. Brown Z, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1178–80

Clinically used concentrations of cyclosporine A only partially inhibit interferon-gamma production by activated T lymphocytes. Buurman WA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1193

Nuclear effects of cyclosporine. Citterio F, et al. **Transplant Proc** 1990 Aug;22(4):1742–3

Cyclosporine in vitro reduces endothelium-dependent relaxation to acetylcholine but does not affect relaxation to nitrovasodilators. Dinh Xuan AT, et al. **Transplant Proc** 1990 Aug;22(4):1723–5

Studies on the biologic activities of Sandimmun metabolites in humans and in animal models: review and original experiments. Fahr A, et al. **Transplant Proc** 1990 Jun; 22(3):1116–24

Inhibition of pancreatic islet cell differentiation and proliferation by cyclosporine A. Healey M, et al. **Transplant Proc** 1990 Apr;22(2):861–2

Immunosuppression induced by monoclonal anti-Thy-1,2 antibodies, cyclosporine A, and lentil lectin in mice. Hilgert I, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1269

Activation of K+ channel and inhibition of Na(+)–K+ ATPase of human erythrocytes by cyclosporine: possible role in hyperpotassemia in kidney transplant recipients. Ihara H, et al. **Transplant Proc** 1990 Aug;22(4):1736–9

Immunologic properties of a sulphate conjugate of cyclosporine A. Johansson A, et al. **Transplant Proc** 1990 Feb;22(1):213

Effect of cyclosporine and retinoic acid on dendritic cell function. Knight SC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):320

Cyclosporine sensitivity of human alloreactive T lymphocytes depends on the strength of the allogeneic stimulus. Kunkl A, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):262

Effects of anti-IL 2 receptor monoclonal antibody and cyclosporine on IL 2 receptor-positive cells infiltrating cardiac allografts in the rat. Lord RH, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):354–5

The relationship of immunological responsiveness to suppression of cellular responses by cyclosporine in vitro. MacSween JM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1202–4

The influence of cyclosporine on cellular infiltration in rat renal allografts. McWhinnie DL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):345–7

Studies of the hepatotrophic qualities of FK 506 and CyA. Mazzaferro V, et al. **Transplant Proc** 1990 Feb;22(1):93–5

FK 506 and cyclosporine A: early effects on activation and gene induction in mouse spleen cells. Metcalfe S, et al. **Transplant Proc** 1990 Aug;22(4):1547–8

Absence of class II major histocompatibility complex antigen induction in cyclosporine A—treated recipients of heart and kidney allografts in the rat. Milton AD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):192–4

Acquired cellular donor-specific tolerance in cyclosporine A-treated recipients of necrokidney transplants. Møller BK, et al. **Transplant Proc** 1990 Feb;22(1):211–2

Comparative immunopharmacologic effects of FK 506 and CyA in in vivo models of organ transplantation. Morris RE, et al. **Transplant Proc** 1990 Feb;22(1):110–2

The effect of FK 506 and CyA on the Lewis rat renal ischemia model. Nalesnik MA, et al. **Transplant Proc** 1990 Feb;22(1):87–9

Increased ultraviolet radiation-induced skin cancers in cyclosporine-treated mice. Nelson EW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):526–7

Influence of cyclosporine on in situ cellular and humoral immune responses during allograft rejection. Orosz CG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1175–7

Cyclosporine suppresses IL-1 production by isolated human monocytes and by the human histiocytoma cell line, THP-1. Reisman L, et al. **Transplant Proc** 1990 Aug; 22(4):1744–6

Class II antigen expression on bronchial epithelium in rat lung allografts is prevented by cyclosporine treatment. Romaniuk A, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):218–9

Cyclosporine A allows the expression of high affinity interleukin 2 binding sites on anti-T-cell antibody activated human T lymphocytes. Ryffel B, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1199–201

Effects of cyclosporine, azathioprine, mizoribine, and prednisolone on replication of human cytomegalovirus. Shiraki K, et al. **Transplant Proc** 1990 Aug;22(4):1682–5

Cyclosporine A treatment induces changes in CD45R (restricted common leukocyte antigen) expression in the mixed lymphocyte reaction. Stein-Oakley AN, et al. **Transplant Proc** 1989 Oct;21(5):3759–60

Graft survival in a hamster-to-rat heart transplantation model after treatment with total lymphoid irradiation, cyclosporine A, and a monoclonal anti-T-cell antibody. Steinbrüchel DA, et al. **Transplant Proc** 1990 Jun;22(3):1088

In vitro effects of cyclosporine on function of rat kidney mitochondria. Strzelecki T, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1393–4

Cyclosporine A modulates the proliferation of T-lymphocyte colony forming cell subpopulations. Tice DG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1191–2

Lack of toxicity of cyclosporine A on the human fetal pancreas. Tuch BE, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1257–8

Suppression of lymph node CTL generation by spleen cells from cyclosporine-treated cardiac-allografted rats. Uhteg LC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1189–90

Suppression of beta cell function by cyclosporine. van Schilfgaarde R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1250–1

Effect of cyclosporine A on the distal nephron: the use of kallikrein as a specific morphological marker. Vio CP, et al. **Transplant Proc** 1990 Aug;22(4):1730–2

Prednisolone protects pancreatic B cells against cyclosporine and azathioprine effects. Viviani GL, et al. **Transplant Proc** 1990 Aug;22(4):2039–41

Effects of FK 506 and low concentration cyclosporine on human lymphocyte activation antigen expression: a flow cytometric analysis. Woo J, et al. **Transplant Proc** 1990 Aug;22(4):1645–6

Mutagenicity of cyclosporine against human cells. Yuzawa K, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1218–20

Histochemical properties of muscle allografts enhanced via cyclosporine. Caiozzo VJ, et al. **Transplantation** 1989 Nov; 48(5):840–4

Differential inhibition of the T cell activation pathway by dexamethasone and cyclosporine. Furue M, et al. **Transplantation** 1990 Mar;49(3):560–4

The influence of cyclosporine on abstinence from alcohol in transplant patients. Giles HG, et al. **Transplantation** 1990 Jun;49(6):1201–2

Cyclosporine and anti-interleukin 2 receptor monoclonal antibody therapy suppress accelerated rejection of rat cardiac allografts through different effector mechanisms. Hancock WW, et al. **Transplantation** 1990 Feb;49(2):416–21

Studies of the mechanism of tolerance induced by short-term immunosuppresion with cyclosporine in high-risk corneal allograft recipients. I. Analysis of CTL precursor frequencies. Irschick E, et al. **Transplantation** 1989 Dec; 48(6):986–90

Suppression by cyclosporine of cellular and humoral reactivity after peripheral nerve allografts in mice. Ishida O, et al. **Transplantation** 1989 Nov;48(5):824–9

Soluble antigen and cyclosporine-induced specific unresponsiveness in rats. Frequency of alloantigen-specific T cytotoxic cells in normal, sensitized, and unresponsive rats. Ito T, et al. **Transplantation** 1990 Feb;49(2):422–8

The effects of cyclosporine and cyclosporine metabolites in experimental small intestinal transplantation. Kim PC, et al. **Transplantation** 1990 Jun;49(6):1043–50

Sensitivity of intracellular signals responsible for cell cycle progression to cyclosporine. Kimball PM, et al. **Transplantation** 1990 Jan;49(1):186–91

Effect of cyclosporine on secondary cytotoxic T lymphocyte responses. Kiziroglu F, et al. **Transplantation** 1990 May; 49(5):961–5

Evaluation of amphotericin B–cyclosporine interaction in the rat. Langston JD, et al. **Transplantation** 1990 Sep; 50(3):506–10

Inhibition of alloantigen presentation by cyclosporine. Little RG 2d, et al. **Transplantation** 1990 May;49(5):937–44

Cyclosporine, FK506, and rapamycin. Some effects on early activation events in serum-free, mitogen-stimulated mouse spleen cells. Metcalfe SM, et al. **Transplantation** 1990 Apr; 49(4):798–802

Preservation of renal compensatory growth in uninephrectomized rats by low-dose cyclosporine. Myers AK, et al. **Transplantation** 1990 May;49(5):879–82

Soluble suppressive molecule released by human T lymphocytes induced by heat-inactivated allostimulator cells in the presence of cyclosporine. Nelson PA, et al. **Transplantation** 1990 Aug;50(2):286–93

Cyclosporine-induced hypotension. Parkhurst GW, et al. **Transplantation** 1989 Nov;48(5):756–9

Specific unresponsiveness in rats with prolonged cardiac allograft survival after treatment with cyclosporine. IV. Examination of T cell subsets in graft-versus-host assays. Pearce NW, et al. **Transplantation** 1990 Sep;50(3):493–7

FK506—its influence on anti-class 1 MHC alloantibody responses to blood transfusions. Propper DJ, et al. **Transplantation** 1990 Aug;50(2):267–71

Low-dose immunosuppression by cyclosporine operating via antigen-presenting dendritic cells. Roberts MS, et al. **Transplantation** 1990 Jul;50(1):91–5

The survival and nature of the immune response to soft-tissue and composite-tissue allografts in rats treated with low-dose cyclosporine. Sobrado L, et al. **Transplantation** 1990 Sep;50(3):381–5

Cyclosporine in the treatment of acute vascular rejection of renal allografts. Thomas PP, et al. **Transplantation** 1990 Sep;50(3):521–2

Effects of combined cholera toxin and cyclosporine therapy on renal allograft survival in the rat. Tsugita M, et al. **Transplantation** 1989 Dec;48(6):1064–5

Analysis of the interactions of immunosuppressive drugs with cyclosporine in inhibiting DNA proliferation. Vathsala A, et al. **Transplantation** 1990 Feb;49(2):463–72

Inhibition of insulin release by cyclosporine and production of peripheral insulin resistance in the dog. Wahlstrom HE, et al. **Transplantation** 1990 Mar;49(3):600–4

Structure-activity relationships of cyclosporines. Inhibition of angiotensin II-stimulated prostaglandin release in cultured rat mesangial cells. Walker RJ, et al. **Transplantation** 1990 Aug;50(2):343–5

Acute effects of intravenous cyclosporine on blood pressure, renal hemodynamics, and urine prostaglandin production of healthy humans. Weir MR, et al. **Transplantation** 1990 Jan;49(1):41–7

A paradox in heart and lung rejection. Westra AL, et al. **Transplantation** 1990 Apr;49(4):826–8

Preservation of body composition in renal transplant patients by cyclosporine, as opposed to prednisone. Zuercher RM, et al. **Transplantation** 1990 Jul;50(1):159–62

Buparvaquone but not cyclosporin A prevents Theileria annulata-infected bovine lymphoblastoid cells from stimulating uninfected lymphocytes. Rintelen M, et al. **Trop Med Parasitol** 1990 Jun;41(2):203–7

Cyclosporin abrogates virus-specific T-cell control of EBV-induced B-cell lymphoproliferation. York LJ, et al. **Viral Immunol** 1990 Summer;3(2):127–36

Histological and ultrastructural effects of cyclosporin A on normal human skin xenografted on to nude mice. Kanitakis J, et al. **Virchows Arch [A]** 1990;416(6):505–11

Effects of chronic cyclosporine. A treatment on the skin microcirculation of conscious rats. Hertel RF, et al. **Z Kardiol** 1989;78 Suppl 6:92–4

[The synergistic effect of low-dose cyclosporine and fluocinolone acetonide on the survival of rat allogenic skin graft] Zhao XF. **Chung Hua Wai Ko Tsa Chih** 1989 Aug; 27(8):495–7, 510 (Eng. Abstr.) **(Chi)**

[Effect of chronic administration of cyclosporin A on choleresis in rats] Cadranel JF, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):779–82 (Eng. Abstr.) **(Fre)**

[Cyclosporin, toxicity and efficacy in rejection of liver allografts in the rat] Settaf A, et al. **J Chir (Paris)** 1989 Aug–Sep;126(8–9):431–7 (Eng. Abstr.) **(Fre)**

[Cyclosporin (CyA) and H2 antagonists] Filingeri V, et al. **Minerva Med** 1990 May;81(5):399–402 (Eng. Abstr.) **(Ita)**

[Experimental studies on subrenal capsule assay using cyclosporin A treated mice—the optimal treatment schedules of CsA and anticancer agents (mitomycin C and 5-fluorouracil)] Kusuyama T, et al. **Gan To Kagaku Ryoho** 1990 Feb;17(2):259–67 (Eng. Abstr.) **(Jpn)**

[The persistence and proliferation of tumor-xenografts implanted under the renal capsule of immunocompetent mice, cyclosporin A-treated mice and nude mice] Kusuyama T, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar; 91(3):303–12 (Eng. Abstr.) **(Jpn)**

[Subrenal capsule assay in normal mice immunosuppressed by cyclosporin A] Yamamoto K, et al. **Nippon Geka Gakkai Zasshi** 1990 Jan;91(1):6–16 (Eng. Abstr.) **(Jpn)**

[Composite tissue allograft limb in rats immunosuppressed with cyclosporine A] Ishiguro N. **Nippon Seikeigeka Gakkai Zasshi** 1989 Dec;63(12):1520–31 (Eng. Abstr.) **(Jpn)**

[Characteristics of the production of lymphokines regulating the function of the cells of the phagocytic system on exposure to cyclosporin A] Baiart B, et al. **Lab Delo** 1989; (11):65–8 (Eng. Abstr.) **(Rus)**

[Immunosuppression with cyclosporin A and pregnancy (letter)] Castelo-Branco C, et al. **Med Clin (Barc)** 1990 Feb 10;94(5):198–9 **(Spa)**

POISONING

Liver injury from cyclosporine A. Kassianides C, et al. **Dig Dis Sci** 1990 Jun;35(6):693–7

Blood concentrations after accidental cyclosporin overdose. de Meer K, et al. **Eur J Pediatr** 1989 Dec;149(3):219–20

[Analysis of dynamic CT curves in kidney transplants with rejection reaction and cyclosporin A poisoning] Jansen O, et al. **ROFO** 1989 Oct;151(4):473–6 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Cyclosporin A and pityriasis rubra pilaris [letter] Ghazi A, et al. **Acta Derm Venereol (Stockh)** 1990;70(2):181

Combination therapy cyclosporin A—PUVA in psoriasis [letter] Korstanje MJ, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):89–90

Oral cyclosporin A is effective in clearing persistent pustulosis palmaris et plantaris. Meinardi MM, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):77–9

Cyclosporin A: preliminary results in the treatment of psoriasis. Bonifati C, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:151–4

Clinical trial with cyclosporin A. Cimitan A, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:159–62; discussion 162–3

Randomised double-blind placebo-controlled trial of local cyclosporin in atopic dermatitis. de Prost Y, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:136–8

Cyclosporin for psoriasis. Clinical and immunological studies. Finzi AF, et al. **Acta Derm Venereol Suppl (Stockh)** 1989; 146:137

Long-term cyclosporin for psoriasis. Fry L, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:138–9

The role of the T cell in psoriasis and the action of cyclosporin in this disease. Fry L. **Acta Derm Venereol Suppl (Stockh)** 1989;146:133–4; discussion 134–5

Three long-term regimens with cyclosporin for psoriasis vulgaris. Heule F, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:171–5

Cyclosporin A and psoriasis: a thermographic study. Ippolito F, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:155–8

Cyclosporin in erythrodermic psoriasis. Reitamo S, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:140–1

Cyclosporin in the treatment of severe aplastic anemia: report of one case. Cheng J, et al. **Acta Paediatr Sin** 1989 Jul–Aug; 30(4):261–5

Therapy of dermatologic disease with cyclosporin A. Brown MD, et al. **Adv Dermatol** 1989;4:3–27; discussion 28 (116 ref.)

Effects of indomethacin, cyclosporin, cyclophosphamide, and placebo on collagen-induced arthritis of mice. Cannon GW, et al. **Agents Actions** 1990 Mar;29(3–4):315–23

Cyclosporine use in steroid-resistant Crohn's disease—grasping at new straws? Coman E, et al. **Am J Gastroenterol** 1990 Jun;85(6):758–9

Cyclosporin A in nontransplant-related liver disease. Minuk GY. **Am J Gastroenterol** 1989 Nov;84(11):1345–50 (45 ref.)

Multiple responses of aplastic anemia to low-dose cyclosporine therapy despite development of a myelodysplastic syndrome. Litzow MR, et al. **Am J Hematol** 1989 Nov;32(3):226–9

Cyclosporin for treatment of life-threatening alloimmunization. Tilly H, et al. **Am J Hematol** 1990 May; 34(1):75–6

Treatment of platelet-alloimmunization with cyclosporin A in a patient with aplastic anemia. Yamamoto M, et al. **Am J Hematol** 1990 Mar;33(3):220–1

Elective conversion from cyclosporine to azathioprine in sensitized patients following cadaveric renal transplantation. Helling TS, et al. **Am J Kidney Dis** 1990 Feb;15(2):137–40

Do calcium channel blockers have any influence on the immunological status of renal graft recipients on ciclosporin therapy? Mandreoli M, et al. **Am J Nephrol** 1990; 10(1):58–60

Cyclosporine-containing collagen shields suppress corneal allograft rejection. Chen YF, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):132–7

Topical cyclosporine therapy for ulcerative keratitis associated with rheumatoid arthritis. Liegner JT, et al. **Am J Ophthalmol** 1990 May 15;109(5):610–2

The use of cyclosporine in high-risk keratoplasty [letter; comment] Pleyer U, et al. **Am J Ophthalmol** 1989 Oct 15; 108(4):467–9 Comment on: Am J Ophthalmol 1989 May 15;107(5):506–10.

Efficacy and toxicity of cyclosporine in chronic progressive multiple sclerosis: a randomized, double-blinded, placebo-controlled clinical trial. The Multiple Sclerosis Study Group. **Ann Neurol** 1990 Jun;27(6):591–605

Therapeutic trials for multiple sclerosis [editorial] McKhann GM. **Ann Neurol** 1990 Jun;27(6):589–90

Polymyositis and cyclosporin A [letter] Alijotas J, et al. **Ann Rheum Dis** 1990 Jan;49(1):66

Cyclosporin in Wegener's granulomatosis with renal failure [letter] Borleffs JC, et al. **Ann Rheum Dis** 1990 Jul;49(7):568

Bromocriptine as an adjuvant to cyclosporine immunosuppression after heart transplantation. Carrier M, et al. **Ann Thorac Surg** 1990 Jan;49(1):129–32

Dermatological application of cyclosporine [letter] Balato N, et al. **Arch Dermatol** 1989 Oct;125(10):1430–1

Oral cyclosporine in the treatment of inflammatory and noninflammatory dermatoses. A clinical and immunopathologic analysis. Gupta AK, et al. **Arch Dermatol** 1990 Mar;126(3):339–50

Short-term cyclosporin therapy for psoriasis [letter; comment] Harrison PV. **Arch Dermatol** 1989 Nov; 125(11):1582–3 Comment on: Arch Dermatol 1989 Apr;125(4):507–10.

Cyclosporin A in the treatment of lichen planus [letter] Higgins EM, et al. **Arch Dermatol** 1989 Oct;125(10):1436

Topical application of cyclosporine on guinea pig allergic contact dermatitis [letter; comment] Lembo G, et al. **Arch Dermatol** 1989 Oct;125(10):1431–2 Comment on: Arch Dermatol 1988 Jun;124(6):907–10.

Cyclosporine therapy for bullous erythema multiforme [letter] Wilkel CS, et al. **Arch Dermatol** 1990 Mar; 126(3):397–8

Regression of bone and cartilage loss in adjuvant arthritic rats after treatment with cyclosporin A. del Pozo E, et al. **Arthritis Rheum** 1990 Feb;33(2):247–52

Immunologic parameters of response in patients with rheumatoid arthritis treated with cyclosporin A. Yocum DE, et al. **Arthritis Rheum** 1990 Sep;33(9):1310–6

Wegener's granulomatosis—use of cyclosporin-A: a case report. Harley N, et al. **Aust N Z J Med** 1990 Feb; 20(1):71–3

Cyclosporin therapy in Vogt Koyanagi Harada disease. Wakefield D, et al. **Aust N Z J Ophthalmol** 1990 May; 18(2):137–42

Low incidence of acute graft-versus-host disease by the administration of methotrexate and cyclosporine in Japanese leukemia patients after bone marrow transplantation from human leukocyte antigen compatible siblings; possible role of genetic homogeneity. The Nagoya Bone Marrow Transplantation Group. Morishima Y, et al. **Blood** 1989 Nov 1;74(6):2252–6

Severe neutropenia associated with large granular lymphocyte lymphocytosis: successful control with cyclosporin A. Pastor E, et al. **Blut** 1989 Dec;59(6):501–2

Renographic monitoring of renal function in patients with Crohn's disease treated with low dose cyclosporin: a controlled study. Brynskov J, et al. **BMJ** 1990 Jun 2; 300(6737):1438–9

Cyclosporine in the treatment of aplastic anaemia and pure red-cell aplasia. Lazzarino M, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 4:165–7

Methylprednisolone, cyclosporine and methotrexate for prophylaxis of acute graft-versus-host disease. Yau JC, et al. **Bone Marrow Transplant** 1990 Apr;5(4):269–72

A consensus report: cyclosporin A therapy for psoriasis. **Br J Dermatol** 1990 Jun;122 Suppl 36:1–3 (0 ref.)

Risk/benefit ratio of cyclosporin A (Sandimmun) in psoriasis. Proceedings of an international consensus meeting. Granada, Spain, 26–28 February 1990. **Br J Dermatol** 1990 Jun;122 Suppl 36:1–100

Kidney biopsies in control or cyclosporin A-treated psoriatic patients. International Kidney Biopsy Registry of Cyclosporin A (Sandimmun) in Autoimmune Diseases. **Br J Dermatol** 1990 Jun;122 Suppl 36:95–100

Mechanism of action and rationale for cyclosporin A in psoriasis. Borel JF. **Br J Dermatol** 1990 Jun;122 Suppl 36:5–12

Renal function and blood pressure in psoriatic patients treated with cyclosporin A. Feutren G, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:57–69

Efficacy of cyclosporin A in psoriasis: a summary of the United States' experience. Fradin MS, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:21–5 (49 ref.)

Cyclosporin A for treatment of severe lichen planus [letter] Pigatto PD, et al. **Br J Dermatol** 1990 Jan;122(1):121–3

Four years of experience with cyclosporin A for psoriasis. Powles AV, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:13–9

Cyclosporin A in atopic dermatitis. Ross JS, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:41–5

Cyclosporin A in psoriasis: interaction with carbamazepine [letter] Schofield OM, et al. **Br J Dermatol** 1990 Mar; 122(3):425–6

Topical cyclosporin A in psoriasis [letter] Schulze HJ, et al. **Br J Dermatol** 1990 Jan;122(1):113–4

Nicardipine interacts with cyclosporin [letter; comment] Todd P, et al. **Br J Dermatol** 1989 Dec;121(6):820 Comment on: Br J Dermatol 1989 Feb;120(2):253–60.

Cyclosporin A treatment of systemic sclerosis. Zachariae H, et al. **Br J Dermatol** 1990 May;122(5):677–81

Successful cyclosporin A treatment of aplastic anaemia in Shwachman-Diamond syndrome. Barrios NJ, et al. **Br J Haematol** 1990 Apr;74(4):540–1

Cyclosporin A versus antilymphocytic globulin in severe aplastic anaemia [letter] Marin P, et al. **Br J Haematol** 1989 Oct;73(2):285–6

Haemophagocytic syndrome treated with cyclosporin A: a T cell disorder? Oyama Y, et al. **Br J Haematol** 1989 Oct; 73(2):276–8

Reversal of drug-resistance by cyclosporin-A in a patient with acute myelocytic leukaemia. Sonneveld P, et al. **Br J Haematol** 1990 Jun;75(2):208–11

Cyclic idiopathic pure acquired amegakaryocytic thrombocytopenic purpura: a patient treated with cyclosporin A. Telek B, et al. **Br J Haematol** 1989 Sep; 73(1):128–9

Cyclosporin in the treatment of severe chronic idiopathic uveitis. de Vries J, et al. **Br J Ophthalmol** 1990 Jun; 74(6):344–9

Cyclosporin therapy for severe scleritis. Wakefield D, et al. **Br J Ophthalmol** 1989 Sep;73(9):743–6

Meshed allograft skin and cyclosporin immunosuppression [letter] Towpik E. **Br J Plast Surg** 1989 Sep;42(5):618

Long-term management and results in heart transplant recipients. Valantine HA. **Cardiol Clin** 1990 Feb;8(1):141–8 (23 ref.)

Prevalence of accelerated coronary artery disease in heart transplant survivors. Comparison of cyclosporine and azathioprine regimens. Gao SZ, et al. **Circulation** 1989 Nov; 80(5 Pt 2):III100–5

Decreased infections in cardiac transplant recipients on cyclosporine with reduced corticosteroid use. Gorensek MJ, et al. **Cleve Clin J Med** 1989 Oct;56(7):690–5

Novel uses for cyclosporine A. Wilke WS, et al. **Cleve Clin J Med** 1990 Mar–Apr;57(2):116–7

Clinical effects of cyclosporin in dermatomyositis. Casato M, et al. **Clin Exp Dermatol** 1990 Mar;15(2):121–3

Combination-therapy cyclosporin-A—etretinate for psoriasis. Korstanje MJ, et al. **Clin Exp Dermatol** 1990 May; 15(3):172–3

Resolution of atopic dermatitis in a patient treated with cyclosporin. Motley RJ, et al. **Clin Exp Dermatol** 1989 May; 14(3):243–4

Precipitation of experimental autoallergic uveoretinitis by cyclosporin A withdrawal: an experimental model of uveitis relapse. Atkinson EG, et al. **Clin Exp Immunol** 1989 Oct;78(1):108–14

Rapidly proliferative arteriopathy in cyclosporin-induced permanently surviving rat cardiac allografts simulating chronic vascular rejection. Fellström B, et al. **Clin Exp Immunol** 1990 May;80(2):288–92

Down-regulation of autoantibody levels of cyclosporine and bromocriptine treatment in patients with uveitis. Blank M, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):87–97

Interleukin-6 serum levels correlate with footpad swelling in adjuvant-induced arthritic Lewis rats treated with cyclosporin A or indomethacin. Leisten JC, et al. **Clin Immunol Immunopathol** 1990 Jul;56(1):108–15

Cyclosporin A–sensitive nephrotic syndrome preceding Hodgkin's disease by 32 months. Fouque D, et al. **Clin Nephrol** 1990 Jul;34(1):1–4

Ciclosporin therapy of autoimmune diseases. Cruse JM, et al. **Concepts Immunopathol** 1989;7:1–19 (53 ref.)

New therapeutic approaches in rheumatoid arthritis. Herzog C, et al. **Concepts Immunopathol** 1989;7:79–105 (120 ref.)

Treatment of myocarditis and polymyositic heart disease guided by endomyocardial biopsy. Mortensen SA, et al. **Concepts Immunopathol** 1989;7:173–95 (70 ref.)

The magic mountain [editorial] Cavanagh HD. **Cornea** 1990 Jul;9(3):183

Cyclosporin A treatment of Behçet's disease: a long-term study. Díaz-Llopis M, et al. **Curr Eye Res** 1990;9 Suppl:17–23

Pustular psoriasis and acrodermatitis continua (Hallopeau) need high doses of systemic ciclosporin A [letter] Korstanje MJ, et al. **Dermatologica** 1989;179(2):90–1

Combination therapy ciclosporin-etretinate effective in erythrodermic psoriasis [letter] Korstanje MJ, et al. **Dermatologica** 1989;179(2):94

Intractable epidermolysis bullosa acquisita: efficacy of cyclosporin A. Merle C, et al. **Dermatologica** 1990; 181(1):44–7

Topical ciclosporin in nail psoriasis [letter] Tosti A, et al. **Dermatologica** 1990;180(2):110

Plasma C-peptide levels and clinical remissions in recent-onset type I diabetic patients treated with cyclosporin A and insulin. Assan R, et al. **Diabetes** 1990 Jul;39(7):768–74

Cyclosporin therapy for prevention and cure of IDDM. Epidemiological perspective of benefits and risks [see comments] Lipton R, et al. **Diabetes Care** 1990 Jul; 13(7):776–84 (39 ref.) Comment in: Diabetes Care 1990 Jul;13(7):806–8.

Immunosuppression in IDDM. Rationale, risks, benefits, and strategies [comment] Mahon JL, et al. **Diabetes Care** 1990 Jul;13(7):806–8 Comment on: Diabetes Care 1990 Jul;13(7):776–84.

Proinsulin and C-peptide at onset and during 12 months cyclosporin treatment of type 1 (insulin-dependent) diabetes mellitus. Snorgaard O, et al. **Diabetologia** 1990 Jan; 33(1):36–42

Effect of cyclosporin A on B-cell loss in type 1 (insulin-dependent) diabetes mellitus [letter] Vague P, et al. **Diabetologia** 1989 Dec;32(12):887

Cyclosporine and inflammatory bowel disease [editorial] Van Thiel DH. **Dig Dis Sci** 1989 Dec;34(12):1817–9

Oral cyclosporin-A is effective treatment for untreated and also for previously immunosuppressed patients with severe bone marrow failure. Hinterberger-Fischer M, et al. **Eur J Haematol** 1989 Aug;43(2):136–42

Efficacy of cyclosporin A for idiopathic pulmonary fibrosis. Fukazawa M, et al. **Eur J Pediatr** 1990 Mar;149(6):441–2

Immunological treatment with low dosage ciclosporin in rat liver allotransplantation. Okamura R, et al. **Eur Surg Res** 1989;21(5):235–42

Xenografting of fetal pig ventral mesencephalon corrects motor asymmetry in the rat model of Parkinson's disease. Huffaker TK, et al. **Exp Brain Res** 1989;77(2):329–36

Impact of RLA matching and cyclosporine on long-term survival in transplanted rabbits. Bigelow CL, et al. **Exp Hematol** 1990 Jan;18(1):3–6

Low dose cyclosporin A therapy in chronic posterior uveitis. Towler HM, et al. **Eye** 1989;3 (Pt 3):282–7

Plasma interleukin-2 and a soluble/shed interleukin-2 receptor in serum of patients with Crohn's disease. Effect of cyclosporin. Brynskov J, et al. **Gut** 1990 Jul;31(7):795–9

Effect of the immune modulating agents cyclophosphamide, methotrexate, hydrocortisone, and cyclosporin A on an animal model of granulomatous bowel disease. Mitchell IC, et al. **Gut** 1990 Jun;31(6):674–8

Managing patients after cardiac transplantation. Hunt HA, et al. **Hosp Pract [Off]** 1989 Oct 15;24(10):83-7, 90-6, 99-100

Primary peripheral T cell lymphoma in a kidney transplant under immunosuppression with cyclosporine A. Ulrich W, et al. **Hum Pathol** 1989 Oct;20(10):1027-30

Effect of cyclosporin A treatment on the enteropathy of graft-versus-host reaction in the rat: a quantitative study of intestinal morphology, epithelial cell kinetics and mucosal immune activity. Cummins AG, et al. **Immunol Cell Biol** 1989 Jun;67 (Pt 3):153-60

Cyclosporin A treatment converts Leishmania donovani-infected C57BL/10 (curing) mice to a noncuring phenotype. Adinolfi LE, et al. **Infect Immun** 1990 Sep; 58(9):3151-3

Haematological changes after renal transplantation: differences between cyclosporin-A and azathioprine therapy. Fang GX, et al. **Int Urol Nephrol** 1990;22(2):181-7

Side effects of low-dose cyclosporin A in the treatment of multiple sclerosis [letter] Bramanti P, et al. **Ital J Neurol Sci** 1990 Feb;11(1):77

Placebo-controlled study of psoriasis patients treated topically with a 10% cyclosporine gel. Bousema MT, et al. **J Am Acad Dermatol** 1990 Jan;22(1):126-7

Juvenile dermatomyositis treated with cyclosporine. Dantzig P. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):310-1

Topical cyclosporine in male pattern alopecia. Gilhar A, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):251-3

Oral cyclosporine for the treatment of alopecia areata. A clinical and immunohistochemical analysis. Gupta AK, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):242-50

Treatment of severe lichen planus with cyclosporine. Ho VC, et al. **J Am Acad Dermatol** 1990 Jan;22(1):64-8

Intralesional cyclosporine in the treatment of psoriasis. A clinical, immunologic, and pharmacokinetic study. Ho VC, et al. **J Am Acad Dermatol** 1990 Jan;22(1):94-100

Clearing of epidermolysis bullosa acquisita with cyclosporine [letter; comment] Layton AM, et al. **J Am Acad Dermatol** 1990 Mar;22(3):535-6 Comment on: J Am Acad Dermatol 1988 Nov;19(5 Pt 2):937-42.

Cyclosporine therapy for severe systemic sclerosis associated with the anti-Scl-70 autoantibody. Vayssairat M, et al. **J Am Acad Dermatol** 1990 Apr;22(4):695-6

Specific unresponsiveness in rats with prolonged cardiac allograft survival after treatment with cyclosporine. III. Further characterization of the CD4+ suppressor cell and its mechanisms of action. Hall BM, et al. **J Exp Med** 1990 Jan 1;171(1):141-57

Use of cyclosporine in the mouse heterotopic heart transplant model. Giardina JJ, et al. **J Heart Transplant** 1990 Mar-Apr;9(2):106-13

Patients receiving quinolones and cyclosporine after heart transplantation. Robinson JA, et al. **J Heart Transplant** 1990 Jan-Feb;9(1):30-1

Capillary and myofiber ultrastructure in endomyocardial biopsies from cyclosporine-treated heart transplant patients. Yarom R, et al. **J Heart Transplant** 1990 May-Jun; 9(3 Pt 1):187-96

Further studies on the effect of cyclosporin A on the course of Paragonimus infection in rats. Hashiguchi Y, et al. **J Helminthol** 1989 Dec;63(4):328-32

Effect of cyclosporine on blood pressure and renal function of recent type 1 diabetes mellitus. Ribstein J, et al. **J Hypertens Suppl** 1989 Dec;7(6):S198-9

Inhibition of immune-mediated meningoencephalitis in persistently Borna disease virus-infected rats by cyclosporine A. Stitz L, et al. **J Immunol** 1989 Dec 15; 143(12):4250-6

Cyclosporin A treatment of severe steroid resistant nephrotic syndrome in adults. Nyrop M, et al. **J Intern Med** 1990 Jan;227(1):65-8

Suppression of actively induced and passively transferred experimental allergic neuritis by cyclosporin A. Nakayasu H, et al. **J Neuroimmunol** 1990 Mar;26(3):219-27

Serial studies of serum interleukin-2 in chronic progressive multiple sclerosis patients: occurrence of 'bursts' and effect of cyclosporine. Trotter JL, et al. **J Neuroimmunol** 1990 Jun;28(1):9-14

Cyclosporin A in the treatment of chronic demyelinating polyradiculoneuropathy. Hodgkinson SJ, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr;53(4):327-30

Cyclosporin-responsive enteropathy and protracted diarrhea. Coulthard M, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb; 10(2):257-61

Cyclosporine treatment of fulminant colitis. Hyams JS, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):383-7

Eight-year results of cyclosporine-treated patients with cardiac transplants. Grattan MT, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):500-9

Evaluation of pediatric cadaver kidneys transplanted into adult recipients receiving cyclosporine. Hudnall CH, et al. **J Urol** 1989 Nov;142(5):1181-5

A comparison of 2 protocols for living-related renal transplantation in children: donor-specific transfusions versus cyclosporine. Leone MR, et al. **J Urol** 1990 Sep; 144(3):721-3

Cyclosporine: vital in today's transplantation, but questions remain about tomorrow [news] Randall T. **JAMA** 1990 Oct 10;264(14):1794, 1797

The association of cyclosporine with the 1-year costs of cadaver-donor kidney transplants. Showstack J, et al. **JAMA** 1990 Oct 10;264(14):1818-23

Intravitreal drug therapy. Peyman GA, et al. **Jpn J Ophthalmol** 1989;33(4):392-404 (93 ref.)

Donor specific transfusions or cyclosporine for related-donor kidney transplantation? Jayes RL Jr, et al. **Kidney Int** 1989 Sep;36(3):485-96

A prospective, randomized therapeutic trial for schistosomal specific nephropathy. Sobh MA, et al. **Kidney Int** 1989 Nov;36(5):904-7

Use of cyclosporin in psoriasis [see comments] Bos JD, et al. **Lancet** 1989 Dec 23-30;2(8678-8679):1500-2 (33 ref.) Comment in: Lancet 1990 Apr 7;335(8693):866-7.

Improved primary renal allograft survival on cyclosporin limited to women with previous pregnancies [letter] Huisman RM, et al. **Lancet** 1989 Oct 21;2(8669):989

Cyclosporin for dystrophic epidermolysis bullosa [letter] Husz S, et al. **Lancet** 1989 Dec 9;2(8676):1393-4

Preliminary report: cyclosporin in treatment of severe active ulcerative colitis. Lichtiger S, et al. **Lancet** 1990 Jul 7; 336(8706):16-9

Serum creatinine in cyclosporin-induced remission of steroid-resistant nephrotic syndrome [letter] [published erratum appears in Lancet 1990 Jun 30;335(8705):1604] [comment] Miller C, et al. **Lancet** 1990 Jun 2;335(8701):1352 Comment on: Lancet 1990 Mar 17;335(8690):674.

Cyclosporin treatment for severe active ulcerative colitis [letter] Porro GB, et al. **Lancet** 1990 Aug 18;336(8712):439

Cyclosporin in idiopathic steroid-resistant membranous glomerulonephritis [letter] Rostoker G, et al. **Lancet** 1989 Oct 21;2(8669):975-6

Effect of cyclosporine-A on connective tissue deposition in experimental inflammatory lesions. Bartold PM, et al. **Matrix** 1989 Aug;9(4):293-300

Cyclosporine in Crohn's disease [letter] **N Engl J Med** 1990 Mar 1;322(9):636-7

The effect of cyclosporine on the use of hospital resources for kidney transplantation [letter; comment] Eggers PW. **N Engl J Med** 1990 Apr 5;322(14):1010-1 Comment on: N Engl J Med 1989 Oct 19;321(16):1086-92.

Cyclosporine [see comments] Kahan BD. **N Engl J Med** 1989 Dec 21;321(25):1725-38 (101 ref.) Comment in: N Engl J Med 1990 May 24;322(21):1530-1.

Cyclosporine and recombinant granulocyte colony-stimulating factor in severe aplastic anemia [letter] Kojima S, et al. **N Engl J Med** 1990 Sep 27;323(13):920-1

Prednisone and cyclosporine in the treatment of severe Graves' ophthalmopathy. Prummel MF, et al. **N Engl J Med** 1989 Nov 16;321(20):1353-9

The effect of cyclosporine on the use of hospital resources for kidney transplantation [see comments] Showstack J, et al. **N Engl J Med** 1989 Oct 19;321(16):1086-92 Comment in: N Engl J Med 1990 Apr 5;322(14):1010-1.

A controlled trial of cyclosporine in the treatment of primary biliary cirrhosis. Wiesner RH, et al. **N Engl J Med** 1990 May 17;322(20):1419-24

Cyclosporin therapy for steroid resistant nephrotic focal glomerulosclerosis. Windom HH, et al. **N Z Med J** 1990 Mar 28;103(886):125-6

Successful treatment with cyclosporin of nephrotic syndrome due to focal segmental glomerulosclerosis recurring in a renal transplant [letter] Green A, et al. **Nephrol Dial Transplant** 1990;5(4):321-2

Treatment of glomerular disease with cyclosporin A. Meyrier A. **Nephrol Dial Transplant** 1989;4(11):923-31 (76 ref.)

Renal effects of trimethoprim in ciclosporin- and azathioprine-treated kidney-allografted patients. Berg KJ, et al. **Nephron** 1989;53(3):218-22

Low dose ciclosporin from the early postoperative period yields potent immunosuppression after renal transplantation. Brady HR, et al. **Nephron** 1990;55(4):394-9

Interaction between ciclosporin A and Sintrom. Campistol JM, et al. **Nephron** 1989;53(3):291-2

Ciclosporin-induced partial and transient improvement of nephrotic syndrome in recurrent focal segmental glomerulosclerosis. Morales JM, et al. **Nephron** 1989; 53(3):283-4

Kaposi's sarcoma in a renal allograft recipient under ciclosporin A. Riegler P, et al. **Nephron** 1989;53(2):171-2

The effect of treatment of corticosteroid-resistant idiopathic (primary) focal and segmental hyalinosis and sclerosis (focal glomerulosclerosis) with ciclosporin. Walker RG, et al. **Nephron** 1990;54(2):117-21

Cyclosporine in the treatment of pure red cell aplasia. Fernandez-Rodriguez R, et al. **Nouv Rev Fr Hematol** 1990; 32(2):167-8

Topical cyclosporine in high-risk corneal transplants. Belin MW, et al. **Ophthalmology** 1989 Aug;96(8):1144-50

The use of topical cyclosporine in high-risk corneal transplants [letter] Martin XD, et al. **Ophthalmology** 1990 Jun;97(6):691-4

Recent advances in the management of end-stage renal disease (ESRD) in children. Fine RN. **Paediatr Indones** 1988 Sep-Oct;28(9-10):218-22

Schistosoma mansoni: morphology and ultrastructure of adult worms recovered from cyclosporin A-treated mice. Munro GH, et al. **Parasitology** 1990 Feb;100 Pt 1:19-28

Cyclosporine A in five children with severe aplastic anemia. Neira L, et al. **Pediatr Hematol Oncol** 1990;7(1):89-98

Safe conversion from cyclosporine to azathioprine with improved renal function in pediatric renal transplantation. Kaiser BA, et al. **Pediatr Nephrol** 1989 Oct;3(4):401-5

Cyclosporine A for the treatment of new-onset insulin-dependent diabetes mellitus. Chase HP, et al. **Pediatrics** 1990 Mar;85(3):241-5

Cyclosporin treatment of a woman with acquired haemophilia due to factor VIII:C inhibitor. Pfliegler G, et al. **Postgrad Med J** 1989 Jun;65(764):400-2

Ciclosporin and thyroid-stimulating immunoglobulins in endocrine orbitopathy. Kahaly G, et al. **Res Exp Med (Berl)** 1989;189(5):355-62

Advanced cryptogenic fibrosing alveolitis: preliminary report on treatment with cyclosporin A. Alton EW, et al. **Respir Med** 1989 Jul;83(4):277-9

Successful treatment of life-threatening steroid-resistant pulmonary sarcoidosis with cyclosporin in a patient with systemic lupus erythematosus. Hammond JM, et al. **Respir Med** 1990 Jan;84(1):77-9

Topical ciclosporin for psoriasis: in vitro skin penetration and clinical study. Hermann RC, et al. **Skin Pharmacol** 1988;1(4):246-9

Cyclosporin treatment in rapidly progressive pulmonary thromboembolic Behçet's disease. Vansteenkiste JF, et al. **Thorax** 1990 Apr;45(4):295-6

Azathioprine-cyclosporin A (CyA) double therapy versus CyA alone after the first rejection episode in kidney-transplanted patients under CyA. A randomized study. Hourmant M, et al. **Transpl Int** 1989 Aug;2(2):113-6

Late conversion from steroids to azathioprine in cyclosporin-treated renal graft recipients. Offermann G, et al. **Transpl Int** 1989 Aug;2(2):108-12

Triple therapy immunosuppression in cadaveric renal transplantation. Richardson AJ, et al. **Transpl Int** 1990 May; 3(1):26-31

Conversion of stable renal allografts at one year from cyclosporin A to azathioprine: a randomized controlled study. Sweny P, et al. **Transpl Int** 1990 May;3(1):19-22

Islet transplantation in outbred rats using cyclosporine. al-Abdullah IH, et al. **Transplant Proc** 1990 Apr; 22(2):873-4

Safe conversion from cyclosporine. Adams PL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2010-1

Efficacy of cyclosporine in renal transplantation from HLA haploidentical living donors: no benefit of transfusion or additional azathioprine. Albrechtsen D, et al. **Transplant Proc** 1990 Feb;22(1):214-5

Renal transplantation in presensitized patients treated with cyclosporine. Albrechtsen D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1862

Renal replacement therapy in the cyclosporine era: results of a national transplantation program. Albrechtsen D, et al. **Transplant Proc** 1990 Feb;22(1):155-6

Local use of kidneys with poor HLA matches is as good as shared use with good matches in the cyclosporine era: an analysis at one and two years. Alexander JW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):672-4

The effect of cyclosporine on allospecific immune responses in vivo. Aoki I, et al. **Transplant Proc** 1990 Feb;22(1):260-3

Prevention of chronic rejection by cyclosporine and prednisone. Arnold AN, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):2122-3

Increase in N-acetyl-beta-glucosaminidase excretion as a marker of kidney damage in cyclosporine-treated renal allografts. Avolio AW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2086-7

Morphological and functional findings in renal transplant recipients on cyclosporine and azathioprine treatment. Backman U, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1639-40

Postoperative bone marrow infusions with cyclosporine, silica, and antilymphocyte serum in rat islet allografts. Barneo L, et al. **Transplant Proc** 1990 Apr;22(2):859-60

The effect of histocompatibility matching and cyclosporine on rat pancreas transplants. Bartlett ST, et al. **Transplant Proc** 1990 Apr;22(2):741-2

Cyclosporine treatment of BB rat pancreas transplant recipients: a functional and histologic analysis. Bartlett ST, et al. **Transplant Proc** 1990 Apr;22(2):736-8

Optimizing cyclosporine use in pediatric patients by measuring pretransplant blood levels. Bauma WD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1709-10

Use of antithymocyte globulin and cyclosporine to treat steroid-resistant rejection episodes in renal transplant recipients. Benvenisty AI, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):1889-91

Sensitization following donor-specific transfusions detected by 51Cr release assays—CyA modulation of early rejection effects. Birtch AG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):805-7

Current results with triple therapy for heart transplantation. Bolman RM 3d, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2490-1

Randomized clinical trial of cyclosporine or donor specific transfusions in high risk living-related donor transplantation. Bordes-Aznar J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2276-7

Cyclosporine immunosuppression and perfusion preservation of cadaver kidneys. Bradley JW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2104-5

Predictors of rejection in cyclosporine-treated cardiac allograft recipients. Burstain TL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2531-3

Cox regression analysis of outcome risk factors in 519 renal allograft recipients. Canafax DM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1947-8

Normal glucose metabolism and insulin secretion in

CyA-treated nondiabetic renal allograft patients not receiving steroids. Cantarovich D, et al. **Transplant Proc** 1990 Apr;22(2):643–4

A controlled trial comparing sequential antilymphocyte sera and cyclosporine therapy to conventional therapy in renal transplant recipients. Cardella CJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1996–7

The effect of cyclosporine A in cadaver donor retransplants: a surprising effect of the sex of the donor. Cecka JM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1842–4

Successful use of cyclosporine in renal grafts with prolonged ischemic times. Chang RW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2080

Is cyclosporine a match for tissue typing centers? Role of the zero HLA-A, B, and DR mismatch effect. Cicciarelli J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):647–9

Two-year fate of 100 kidney transplants treated with low-dose cyclosporine without biopsy guidelines. Civati G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1856–7

Allogeneic intrasplenic hepatocyte transplantation in the Gunn rat using cyclosporine A immunosuppression. Cobourn CS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1002–3

Clinical small intestinal transplantation using cyclosporine A and methylprednisolone. Cohen Z, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2588–90

Influence of total lymphoid irradiation plus cyclosporine on kidney graft outcome in high-risk patients. Cortesini R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1949–50

A randomized clinical trial comparing OKT3 and steroids for treatment of hepatic allograft rejection. Cosimi AB, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2431–3

Long-term effects of cyclosporine-based immunosuppression in cardiac transplantation: the Loyola experience. Costanzo-Nordin MR, et al. **Transplant Proc** 1990 Jun;22(3 Suppl 1):6–11

Withdrawal of methylprednisolone at the sixth month in renal transplant recipients treated with cyclosporine. Cristinelli L, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2021–3

Prolongation of rat heart allograft survival using low-dose cyclosporine and PAF antagonist WEB 2170. Da Costa M, et al. **Transplant Proc** 1990 Aug;22(4):1945–6

Cyclosporine-induced graft vs host disease in two patients receiving syngeneic bone marrow transplants. Dale BM, et al. **Transplant Proc** 1989 Oct;21(5):3816–7

Combined effect of low-dose FK 506 and cyclosporine A on skin graft survival. Dammeijer PF, et al. **Transplant Proc** 1990 Aug;22(4):1653–4

Verapamil prevents posttransplant delayed function and cyclosporine A nephrotoxicity. Dawidson I, et al. **Transplant Proc** 1990 Aug;22(4):1379–80

Quadruple therapy for cadaver renal transplantation. Deierhoi MH, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1917–9

Comparison between prophylactic use of OKT3 and cyclosporine in cadaveric renal transplantation. De Pauw L, et al. **Transplant Proc** 1990 Aug;22(4):1759–60

A controlled prospective trial of triple therapy with low-dose azathioprine, cyclosporine, and methylprednisolone in renal transplantation. De Vecchi A, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1933–4

The results of renal transplantation with cyclosporine in immunologically high-risk patients. Dickerman RM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1846–8

Effects of a combined antigen-cyclosporine regimen in four transplantation models. Didlake R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1281–3

Bromocriptine plus suboptimal cyclosporine treatment abrogates acute rejection of rat cardiac allografts. Di Stefano R, et al. **Transplant Proc** 1990 Aug;22(4):2015–6

Renal allograft survival in highly sensitized patients treated with cyclosporine. Doran M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1988

Impact of race on the outcome of renal transplantation under cyclosporine-prednisone. Dunn J, et al. **Transplant Proc** 1989 Dec;21(6):3946–8

Monitoring low molecular weight serum proteins in cyclosporine A-treated bone marrow transplant recipients. Duraj FF, et al. **Transplant Proc** 1990 Feb;22(1):203–4

Conversion from azathioprine and/or prednisolone to cyclosporine A in renal allograft recipients. Ebel H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2005–6

A prospective randomized study of acute graft-v-host disease in 107 patients with leukemia: methotrexate/prednisone v cyclosporine A/prednisone. Forman SJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2605–7

Low-dose cyclosporine or azathioprine one year after renal transplantation. Forwell MA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1858–9

Enhancement of renal allografts by simultaneous cyclosporine and donor-specific blood transfusion. Francis DM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1464–6

Low-dose azathioprine is synergistic with low-dose cyclosporine in rabbit skin allograft survival. Friedman AL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1270–1

Causes of graft loss and mortality in cyclosporine-treated cadaveric kidney graft recipients. Frödin L, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1831–2

Epidermal Langerhans cells in the early phase of immunosuppreasion. Gäbel H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1205–6

Cyclosporine to azathioprine conversion in cadaveric renal transplants. Gonwa TA, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):2018–20

A controlled trial of azathioprine in combination with cyclosporine in cadaveric renal transplantation. Griffin PJ, et al. **Transplant Proc** 1990 Aug;22(4):1369

Low incidence of rejection and in vitro donor-specific hyporesponsiveness using pretransplant ALG, low-dose cyclosporine, and steroids in kidney cadaveric transplantation. Griñó JM, et al. **Transplant Proc** 1990 Aug; 22(4):1367–8

Influence of HLA matching, donor age, and cyclosporine on unrelated pediatric renal allograft survival. Groenwoud AF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):699–701

There is no need to give blood transfusions as pretreatment for renal transplantation in the cyclosporine era. Groth CG. **Transplant Proc** 1987 Feb;19(1 Pt 1):153–4

Improvement of pancreas allograft survival by donor and/or graft pretreatment with CyA and concanavalin A. Guerra E, et al. **Transplant Proc** 1990 Apr;22(2):716

The effects of donor specific transfusion and cyclosporine A on graft outcome. Haberal M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2269–70

Tempo of induction of W3/25+ suppressor cells in cyclosporine-treated rat cardiac allograft recipients. Hall BM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):504

Australian multicentre trial in cadaver renal transplantation comparison of short- and long-term cyclosporine A therapy with conventional therapy. Hall BM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1833–4

Intermodal immunosuppression for cadaver renal transplantation: results using antilymphocyte globulin, azathioprine, cyclosporine, and prednisone. Halloran P, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1931–2

Synergistic effect of cyclosporine and mizoribine on graft survival in canine organ transplantation. Hayashi R, et al. **Transplant Proc** 1990 Aug;22(4):1676–8

Effects of azathioprine, cyclosporine, and steroids on the graft and on cytologic patterns of rejection. Häyry P, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1650–1

The impact of cyclosporine A on the DRw6 effect in renal transplantation. Hendriks GF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):650–1

Cyclosporine A, hyperimmunized patients, and renal retransplantation. Hendriks GF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):733–4

A prospective study on the influence of cyclosporine and azathioprine on renal allograft survival and function. Henny FC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1853–5

Triple drug therapy: an alternative regimen in renal transplantation. Henry ML, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):1920–1

Chronic Epstein-Barr virus reactivation after renal transplantation: immunosuppression with cyclosporine versus azathioprine. Hillebrand G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2179–80

Three year experience of donor specific transfusion and concomitant cyclosporine A. Hillis AN, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2248–9

Factors influencing long-term graft function in children with the use of cyclosporine A. Hoyer PF, et al. **Transplant Proc** 1990 Aug;22(4):1711–2

Prolonged survival of small intestinal allograft in the rat with cyclosporine A, FK 506, and 15-deoxyspergualin. Iga C, et al. **Transplant Proc** 1990 Aug;22(4):1658

Pancreaticoduodenal allotransplantation with the use of FK 506, cyclosporine, and triple-regimen immunosuppression. Imai K, et al. **Transplant Proc** 1990 Aug;22(4):1655–7

Immunosuppression with cyclosporine, azathioprine, and prednisolone in cadaver renal allograft recipients. Jones RM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1926

Triple-combination therapy with cyclosporine, antithymocyte serum, and silica in pancreatic islet xenografting. Kanehiro H, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1276–8

The long-term effects of cyclosporine in heart transplant patients. Kaye MP. **Transplant Proc** 1990 Jun;22(3 Suppl 1):12–4

Cyclosporine A treatment for human immunodeficiency virus-infected transplant recipients. Klatzmann D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1828

Combined total lymphoid irradiation and cyclosporine promote xenograft survival. Knechtle SJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1137–9

Cyclosporine A immunosuppression of allotransplanted canine pancreatic islets. Kneteman NM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):950–1

Serum beta 2 microglobulin levels are relatively depressed in cyclosporine A-treated patients who undergo kidney graft rejection. Kootte AM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1681–2

Cyclosporine in cadaveric renal transplantation: a comparison of two immunosuppressive protocols. Koyle M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1849

A comparison of azathioprine and cyclosporine in liver transplantation: a study of two personal series. Krom RA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2440–2

Corticosteroid withdrawal with substitution of azathioprine in cyclosporine-treated primary cadaveric renal transplant recipients. Kupin W, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2024–6

Cyclosporine inhibits nonspecific transfusion-induced immunity in dogs. Kyriakides GK, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1432–3

Outcome of kidney transplantation in highly sensitized patients in Scandiatransplant. Lamm LU, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):729–30

Cardiac transplantation using discordant xenografts in a nonhuman primate model. Lexer G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1153–4

Differential effects of peritransplant variables on short- and predicted long-term outcome in cyclosporine-treated recipients of cadaveric renal allografts. Lindholm A, et al. **Transplant Proc** 1990 Aug;22(4):1429–30

Safety of cyclosporine monotherapy after heart transplantation. Livi U, et al. **Transplant Proc** 1990 Aug; 22(4):1441–2

Stopping prednisone in kidney transplant recipients taking cyclosporine: safety conditions. Lloveras J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2027–8

Requirements for safe prednisone discontinuation in late renal transplantation in recipients immunosuppressed with cyclosporine. Lloveras J, et al. **Transplant Proc** 1990 Aug; 22(4):1693–4

Lymphocyte subpopulations in renal biopsies of transplant patients treated with cyclosporine. Lloveras J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1660–1

A randomized study of cyclosporine with and without prednisone in renal allograft recipients. Canadian Transplant Group. MacDonald AS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1865–6

Diagnosis of renal allograft rejection by analysis of infiltrating cell profiles: an assessment of cyclosporine, azathioprine/prednisolone, and triple therapy. McWhinnie DL, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1633–4

Conversion from cyclosporine to azathioprine improves renal function without increased risk of graft failure. Maddux MS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2007–9

Primary cadaveric renal transplantation using cyclosporine in patients over fifty years of age. Mandelbaum DM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1863–4

Induction of long-term rat renal allograft survival: a specific synergistic effect of limited pretransplant cyclosporine combined with multiple nonspecific blood transfusions. Martin DC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):462–3

Decreased kallikrein excretion in renal transplant treated with cyclosporine A. Martinez L, et al. **Transplant Proc** 1990 Feb;22(1):294–6

Has cyclosporine really relegated pretransplant blood transfusions to therapeutic obsolescence? Melzer JS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1971–3

T cell subset analysis predicts virus infection but not rejection in cyclosporine A-treated renal allograft recipients. Metselaar HJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2181–2

Two-year results of a prospective randomized comparison of cyclosporine/low dose steroid immunosuppression with azathioprine and steroids in renal transplantation. Mieny CJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1852

Cadaveric renal transplantation after pulsatile perfusion, histocompatibility matching, and conversion to cyclosporine therapy. Milgrom M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1873

Long-term effects of cyclosporine in cardiac transplantation. Miller LW, et al. **Transplant Proc** 1990 Jun;22(3 Suppl 1):15–20

Cyclosporine A: graft survival and cardiotoxicity in murine cardiac allografts. Mirisklavos A, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1259–61

Advantages of mizoribine over azathioprine in combination therapy with cyclosporine for renal transplantation. Mita K, et al. **Transplant Proc** 1990 Aug;22(4):1679–81

A positive lymphocyte cross-match and major histocompatibility complex mismatching do not predict early rejection of liver transplants in patients treated with cyclosporine. Moore SB, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):2390–1

Successful canine pancreaticoduodenal allotransplantation with cyclosporine and gabexate mesilate. Morimoto T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1318–20

A study of the contrasting effects of cyclosporine, FK 506, and rapamycin on the suppression of allograft rejection. Morris RE, et al. **Transplant Proc** 1990 Aug;22(4):1638–41

Cyclosporine versus azathioprine in high risk cadaver kidney transplant recipients: a prospective randomized study. Norman DJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1845

Allogeneic lymphocytes are rejected by DST-pretreated, CyA-treated rats with accepted heart allograft from the same donor in a hyperacute fashion. Olszewski WL, et al. **Transplant Proc** 1990 Aug;22(4):1985–6

Synergistic effect of UV-irradiated donor-specific transfusions with peritransplant cyclosporine on cardiac allograft survival in rats. Oluwole S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):451–3

The effect of acute tubular necrosis on cyclosporine-treated kidney transplants. Paramasivan ON, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2085

Conversion from standard cyclosporine to low-dose cyclosporine and azathioprine therapy as treatment for cyclosporine-related complications in liver transplant patients. Perkins JD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2434–6

Frequency of diabetes-related complications in renal

allograft recipients prospectively randomized to cyclosporine or azathioprine. Pescovitz MD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1537–8

Skin test reactivity and lymphocyte subsets in cyclosporine versus azathioprine-treated renal transplant recipients. Pomer S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1568–9

The effect of repeated transfusion and cyclosporine A administration on alloantibody levels in sensitized rats. Power DA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1422

Long-term follow-up of cyclosporine-treated cardiac transplant recipients. Radovancevic B, et al. **Transplant Proc** 1990 Jun;22(3 Suppl 1):21–4

Effect of combined administration of low dose cyclosporine A with a thromboxane synthetase inhibitor on acute cardiac allograft rejection. Sakurai Y, et al. **Transplant Proc** 1990 Aug;22(4):1686–8

A controlled trial of triple therapy in renal transplantation. Salaman JR, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1935–6

Cyclosporine monotherapy—an ideal long-term immunosuppression? Schleibner S, et al. **Transplant Proc** 1990 Aug;22(4):1695–6

Donor-specific antigen and cyclosporine fail to prolong rat pancreas survival. Schulak JA, et al. **Transplant Proc** 1990 Apr;22(2):739–40

A flexible immunosuppression protocol for organ transplantation using cyclosporine, azathioprine, and prednisone. Schweizer RT, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):1944–6

Cardiovascular effects of cyclosporine in heart transplant recipients. Scott JP, et al. **Transplant Proc** 1990 Aug; 22(4):1740–1

Tailoring cyclosporine according to kinetic profiles: does it allow a low-dose therapeutic schedule? Segoloni GP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1726–7

Quality of life on cyclosporine versus conventional therapy. Simmons RG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1860–1

A comparison of renal biopsies in cyclosporine and conventionally immunosuppressed renal transplant recipients. Simonton SC, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1790

Abrogation of cyclosporine/transfusion-induced enhancement of rabbit skin allografts by increased cyclosporine dosage. Smit WJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1427–8

Quadruple immunosuppressive therapy in whole pancreas transplantation. Sollinger HW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2297–9

A cost comparison of liver transplantation with FK 506 or CyA as the primary immunosuppressive agent. Staschak S, et al. **Transplant Proc** 1990 Feb;22(1):47–9

Synergistic effect of cyclosporine A, cyclophosphamide, and steroids in rabbit-to-rat skin xenotransplantation. Steinbruchel D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1168–70

Does cyclosporine eliminate the need for preparatory blood transfusions? Stevens DW, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):1850–1

Antiidiotypic antibody activity in patients receiving donor specific transfusions and cyclosporine A. Stewart KN, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2262–3

Cyclosporine treatment of chronic graft-versus-host disease following allogeneic bone marrow transplantation. Sullivan KM, et al. **Transplant Proc** 1990 Jun;22(3):1336–8 (27 ref.)

Prolongation of rat hepatic allografts by pretreatment with donor splenocytes combined with peritransplant cyclosporine. Sun J, et al. **Transplant Proc** 1990 Aug; 22(4):1960–1

Cardiac transplantation in the sixth decade of life. Szentpetery S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2492–4

Antilymphoblast globulin treatment of steroid-resistant rejection in cyclosporine-immunosuppressed renal transplant recipients. Tellis VA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1892

In vivo potentiation of cyclosporine immunosuppression by calcium antagonists. Tesi RJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1382–4

Factors influencing kidney graft survival in the cyclosporine era: a multivariate analysis. Tiwari J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1839–41

Immune responsiveness following skin grafting in cyclosporine-treated rats. Towpik E, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):497–8

Metabolic control at two months to 4.5 years after pancreatic transplantation, with special reference to the role of cyclosporine. Tydén G, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 3):2294–6

The influence of cold ischemia on the function of cadaveric renal transplants in cyclosporine A-treated patients. van Goor H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2061–2

Long-term prognosis of cadaver renal allografts transplanted with cyclosporine as basic immunosuppression. The Leuven Collaborative Group for Transplantation. Vanrenterghem Y, et al. **Transplant Proc** 1990 Aug; 22(4):1691–2

Impact of HLA-DR and combined HLA-B and HLA-DR matching on early graft outcome under cyclosporine therapy. Vanrenterghem Y, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 1):685–6

Elective conversion from cyclosporine to azathioprine: long-term follow-up. Veitch PS, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2017

Alternative antirejection treatment with steroids or antilymphoblast globulin in renal transplant patients receiving cyclosporine. Veremis SA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1893–5

The importance of HLA-DR matching in corneal transplant recipients treated with cyclosporine A. von Keyserlingk H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2576–8

Prolonged cyclosporine therapy to induce solid engraftment after renal transplantation. Weimar W, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1998–9

Five-year follow-up of graft function and urinary protein excretion in kidney transplant patients immunosuppressed with cyclosporine or azathioprine. Widstam-Attorps U, et al. **Transplant Proc** 1990 Feb;22(1):216

Measurement of true glomerular filtration rate in renal transplant patients receiving cyclosporine. Wilkinson A, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1739–41

The influence of HLA matching in cardiac allograft recipients receiving cyclosporine and azathioprine. Yacoub M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2487–9

The impact of transplant aspiration cytology on management of cyclosporine A-treated renal transplant recipients. Yussim A, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1658–9

Effects of HLA matching and panel reactive antibodies in the development of rejection after conversion of cyclosporine to azathioprine. Zemel SM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2029–31

Enhanced in vitro hemostasis and reduced thrombolysis in cyclosporine-treated renal transplant recipients. Baker LR, et al. **Transplantation** 1990 May;49(5):905–9

Six weeks of continuous intravenous cyclosporine and short-course methotrexate as prophylaxis for acute graft-versus-host disease after allogeneic bone marrow transplantation. Beelen DW, et al. **Transplantation** 1990 Sep;50(3):421–7

Kidney transplants in cyclosporine-treated Sprague-Dawley rats. Churchill M, et al. **Transplantation** 1990 Jan;49(1):8–13

Prevention of acute cyclosporine-induced renal blood flow inhibition and improved immunosuppression with verapamil. Dawidson I, et al. **Transplantation** 1989 Oct; 48(4):575–80

Evidence that cyclosporine prevents rejection and recurrent diabetes in pancreatic transplants in the BB rat. Dugoni WE Jr, et al. **Transplantation** 1990 May;49(5):845–8

Causes of graft loss beyond two years in the cyclosporine era. Dunn J, et al. **Transplantation** 1990 Feb;49(2):349–53

The beneficial effect of pretransplant cyclosporine therapy on recipient rats grafted with a 12-hour cold-stored liver. Goto S, et al. **Transplantation** 1990 May;49(5):1003–5

Evidence that zero antigen-matched cyclosporine-treated renal transplant recipients have graft survival equal to that of matched recipients. Reevaluation of points. Greenstein SM, et al. **Transplantation** 1990 Feb;49(2):332–6

Partial tolerance in rat renal allograft recipients following multiple blood transfusions and concomitant cyclosporine. Hewitt CW, et al. **Transplantation** 1990 Jan;49(1):194–8

Hepatitis B liver disease in cyclosporine-treated renal allograft recipients. Huang CC, et al. **Transplantation** 1990 Mar;49(3):540–4

The beneficial effect of cyclosporine on liver ischemia in rats. Kawano K, et al. **Transplantation** 1989 Nov; 48(5):759–64

Beneficial effect of cyclosporine on renal transplantation. A multicenter long-term study. Kramer NC, et al. **Transplantation** 1990 Feb;49(2):343–8

A comparison of the effects of cyclosporine versus antilymphocyte globulin on delayed graft function in cadaver renal transplant recipients [see comments] Michael HJ, et al. **Transplantation** 1989 Nov;48(5):805–8 Comment in: Transplantation 1990 May;49(5):1025.

Effect of ultraviolet B-irradiated donor leukocytes and peritransplant cyclosporine on cardiac allograft survival in presensitized rats. Oluwole SF, et al. **Transplantation** 1989 Nov;48(5):867–70

Follow-up of cyclosporine-treated pediatric renal allograft recipients after cessation of prednisone. Reisman L, et al. **Transplantation** 1990 Jan;49(1):76–80

The limited efficacy of cyclosporine in preventing rejection and graft-versus-host disease in orthotopic small bowel transplantation in rats. Saat RE, et al. **Transplantation** 1990 Sep;50(3):374–7

Living-donor renal transplantation in SEOPF. The impact of histocompatibility, transfusions, and cyclosporine on outcome. Sanfilippo F, et al. **Transplantation** 1990 Jan; 49(1):25–9

Failure of donor irradiation and graft lymph node reduction to prolong pancreas allograft survival in cyclosporine- and donor-specific transfusion-treated hosts. Schulak JA, et al. **Transplantation** 1990 Aug;50(2):341–3

Beneficial effect of HLA-DQ compatibility on the survival of cadaveric renal allografts in cyclosporine-treated recipients. Sengar DP, et al. **Transplantation** 1990 May; 49(5):1007–9

Elimination of acute GVHD and prolongation of rat pancreas allograft survival with DST cyclosporine, and spleen transplantation. Wakely E, et al. **Transplantation** 1990 Feb; 49(2):241–5

An increased incidence of late acute rejection episodes in cadaver renal allograft recipients given azathioprine, cyclosporine, and prednisone. Wrenshall LE, et al. **Transplantation** 1990 Aug;50(2):233–7

Significant prolongation of hamster liver transplant survival in Lewis rats by total-lymphoid irradiation, cyclosporine, and splenectomy. Yamaguchi Y, et al. **Transplantation** 1990 Jan;49(1):13–7

A new perspective on canine keratoconjunctivitis sicca. Treatment with ophthalmic cyclosporine. Kaswan RL, et al. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):583–613 (76 ref.)

[The treatment of patients with idiopathic membranous glomerulonephritis with cyclosporin A] Tishkov I, et al. **Vutr Boles** 1989;28(4):104–6 **(Bul)**

[Prolongation of rat hepatic allografts by donor splenocyte infusion and peritransplant cyclosporine treatment] Sun JH. **Chung Hua Wai Ko Tsa Chih** 1989 Dec;27(12):765–7, 783 (Eng. Abstr.) **(Chi)**

[Florid cutaneous sarcoidosis. Therapeutic difficulties] Picard C, et al. **Ann Dermatol Venereol** 1989;116(11):817–20 (10 ref.) **(Fre)**

[Cyclosporin treatment of Basedow's ophthalmopathy] Dorey F, et al. **Bull Soc Belge Ophtalmol** 1988;226:65–70 (Eng. Abstr.) **(Fre)**

[Long-term results of orthotopic liver transplantation during the cyclosporin era. 393 orthotopic liver transplantations accomplished in 313 consecutive patients at the Pittsburgh Transplantation Center] Lerut J, et al. **Helv Chir Acta** 1989 Aug;56(3):405–20 (Eng. Abstr.) **(Fre)**

[Medical treatment of severe uveitis] Berche M, et al. **Ophtalmologie** 1989 Jan-Mar;3(1):37–9 (Eng. Abstr.) **(Fre)**

[Kidney transplantation after 60 years of age. Survival of patients and functional results] Babinet F, et al. **Presse Med** 1990 Feb 10;19(5):201–4 (Eng. Abstr.) **(Fre)**

[Favourable course erythroblastopenia with cyclosporine in chronic lymphoid leukemia (letter)] Taillan B, et al. **Presse Med** 1990 Jan 27;19(3):133 **(Fre)**

[Successful treatment of primary biliary cirrhosis with cyclosporin] Lie TS, et al. **Dtsch Med Wochenschr** 1990 May 4;115(18):698–702 (Eng. Abstr.) **(Ger)**

[Results of cyclosporin treatment of severe, chronic psoriasis vulgaris] Engst R, et al. **Hautarzt** 1989 Aug;40(8):486–9 (Eng. Abstr.) **(Ger)**

[The effect of cyclosporin A on experimental glomerulonephritis in rabbits] Kurunczi S, et al. **Monatsschr Kinderheilkd** 1990 Apr;138(4):211–5 (Eng. Abstr.) **(Ger)**

[Immunosuppressive therapy of multiple sclerosis using cyclosporin A and azathioprine. Long-term effects, risks, proton spin tomography and immunological findings] Kappos L. **Schriftenr Neurol** 1990;32:1–200 (706 ref.) **(Ger)**

[Cyclosporin in autoimmune diseases] Frey FJ. **Schweiz Med Wochenschr** 1990 May 26;120(21):772–86 (143 ref.) (Eng. Abstr.) **(Ger)**

[Immunosuppressive therapy with low cyclosporin A doses in rats] Klika T, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(5):293–7 (Eng. Abstr.) **(Ger)**

[Extending the survival time of allogenic heart and kidney transplants in the rat by a combination of PUVA transplant conditioning and cyclosporin treatment of the recipient] Oesterwitz H, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(5):286–92 (Eng. Abstr.) **(Ger)**

[The effect of donor conditioning with cyclosporin on the survival time of allogenic heart transplants in the rat] Oesterwitz H, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(5):282–5 (Eng. Abstr.) **(Ger)**

[24-hour behavior of T-lymphocyte subpopulations in patients with stable heart transplants receiving cyclosporin therapy] Cugini P, et al. **Cardiologia** 1989 Jun;34(6):537–50 (Eng. Abstr.) **(Ita)**

[The combination of cyclosporin A and fluocortolone in the treatment of autoimmune diseases] Aresu G, et al. **Clin Ter** 1989 Oct 15;131(1):3–21 (99 ref.) (Eng. Abstr.) **(Ita)**

[Therapy of rejection. Clinical consequences] Gronda E, et al. **G Ital Cardiol** 1989 Oct;19(10):968–72 **(Ita)**

[Exfoliative cytology of psoriasis: effects of cyclosporin A] Altomare G, et al. **G Ital Dermatol Venereol** 1989 Jul-Aug; 124(7–8):325–8 (Eng. Abstr.) **(Ita)**

[Inhibition of antigen-induced late asthmatic response and bronchial hyperresponsiveness by cyclosporin A] Fukuda T, et al. **Arerugi** 1990 May;39(5):483–7 (Eng. Abstr.) **(Jpn)**

[The inhibition of interleukin 2 (IL-2) receptor gene expression in kidney transplant recipients treated with ciclosporin: preliminary report] Yoshimura N, et al. **Nippon Geka Gakkai Zasshi** 1989 Jun;90(6):956 **(Jpn)**

[Treatment of skin symptoms of Behçet's disease with low dose cyclosporin A] Iiyoshi E, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Jul;99(8):877–81 (Eng. Abstr.) **(Jpn)**

[A case of overlap syndrome of PSS, SLE and Sjögren syndrome treated by cyclosporin A: an improvement of sclerosis of the skin] Kume A, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Oct;99(11):1191–6 (Eng. Abstr.) **(Jpn)**

[Diagnosis and therapy of aplastic anemia and pure red cell aplasia] Urabe A. **Nippon Naika Gakkai Zasshi** 1990 May 10;79(5):588–92 **(Jpn)**

[Thyroid function in patients with transplanted kidney treated with cyclosporin A or azathioprine with prednisone c] Zukowska-Szczechowska E, et al. **Pol Arch Med Wewn** 1987 Sep;78(3):166–72 (Eng. Abstr.) **(Pol)**

[Will cyclosporin A be used in the treatment of refractory nephrotic syndromes?] Hruby Z. **Wiad Lek** 1989 Aug 15–Sep 15;42(16–18):963–9 (45 ref.) (Eng. Abstr.) **(Pol)**

[Autoimmune skin diseases and cyclosporin A] Alijotas Reig J, et al. **Med Clin (Barc)** 1989 May 27;92(20):772–5 (74 ref.) **(Spa)**

[Antilymphocytic sera versus azathioprine, combined with cyclosporin and steroids, in liver transplant. Comparison of the results at the intensive care unit and 2 years' follow-up] Cisneros Alonso C, et al. **Rev Clin Esp** 1990 Feb;186(2):68–73 (Eng. Abstr.) **(Spa)**

[Immunotherapeutic management of juvenile diabetes mellitus] Moncada E. **Rev Esp Fisiol** 1989;45 Suppl:301–8 (22 ref.) (Eng. Abstr.) **(Spa)**

TOXICITY

Nephrotoxicity of cyclosporin A and contrast media. A comparison between diatrizoate and iohexol in rats. Thomsen HS, et al. **Acta Radiol** 1989 Nov–Dec; 30(6):647–53

In vitro effects of cyclosporine on glomerular function. Wiegmann TB, et al. **Am J Med Sci** 1990 Mar;299(3):149–52

Effect of cyclosporin A on bile flow in experimental animals using technetium-99m EHIDA. Owunwanne A, et al. **Am J Physiol Imaging** 1990;5(1):30–5

Cyclosporine nephropathy: inhibition of osmoregulatory renal cell transport. Terreros DA, et al. **Ann Clin Lab Sci** 1989 Sep–Oct;19(5):337–44

Cyclosporin-induced embryotoxicity in mice. Fein A, et al. **Biol Neonate** 1989;56(3):165–73

Thromboxane receptor blockade attenuates the toxic effect of cyclosporine in experimental renal transplantation. Rossini M, et al. **Circulation** 1990 Jan;81(1 Suppl):I61–7; discussion I68

Effect of nifedipine on renal haemodynamics in an animal model of cyclosporin A nephrotoxicity. McNally PG, et al. **Clin Sci** 1990 Sep;79(3):259–66

Pathology of cyclosporin A in mosquito larvae. Weiser J, et al. **Cytobios** 1989;59(238–239):143–50

Effect of cyclosporine on hepatic cytosolic estrogen and androgen receptor levels before and after partial hepatectomy. Kahn D, et al. **Dig Dis Sci** 1990 Jan; 35(1):6–11

Inhibition of hepatocytary vesicular transport by cyclosporin A in the rat: relationship with cholestasis and hyperbilirubinemia. Román ID, et al. **Hepatology** 1990 Jul; 12(1):83–91

Isolated rat cardiomyocytes as an experimental model for studying acute cardiotoxicity of cyclosporin A. Olbrich HG, et al. **Int J Cardiol** 1990 Jun;27(3):319–25

The use of 125I-HIPDM for studying tissue response due to toxic effects of cyclosporin-A in rats. Owunwanne A, et al. **Int J Rad Appl Instrum [B]** 1990;17(5):507–9

Acute cyclosporine renal dysfunction reversed by dopamine infusion in healthy subjects. Conte G, et al. **Kidney Int** 1989 Dec;36(6):1086–92

Role of endothelin in cyclosporine-induced glomerular dysfunction. Kon V, et al. **Kidney Int** 1990 Jun; 37(6):1487–91

Cyclosporin reduces renal blood flow through vasoconstriction of arcuate arteries in the hydronephrotic rat model. Zimmerhackl LB, et al. **Klin Wochenschr** 1990 Feb 1;68(3):166–74

Cyclosporine lowers seizure threshold in an experimental model of electroshock-induced seizures in Munich-Wistar rats. Racusen LC, et al. **Life Sci** 1990;46(14):1021–6

Evaluation of cyclosporine nephrotoxicity by renal transplant fine needle aspiration. Nast CC, et al. **Mod Pathol** 1989 Nov;2(6):577–82

Absence of acute nephrotoxicity with low doses of cyclosporin: experimental study in the rat. Sabbatini M, et al. **Nephrol Dial Transplant** 1990;5(1):69–74

Liposomal formulation eliminates acute toxicity and pump incompatibility of parenteral cyclosporine. Gruber SA, et al. **Pharm Res** 1989 Jul;6(7):601–7

Pharmacology of cyclosporine (sandimmune). VII. Pathophysiology and toxicology of cyclosporine in humans and animals. Mason J. **Pharmacol Rev** 1990 Sep; 41(3):423–34 (202 ref.)

Thromboxane receptor blockade improves cyclosporine nephrotoxicity in rats. Spurney RF, et al. **Prostaglandins** 1990 Feb;39(2):135–46

Inhibition of myogenic autoregulation in cyclosporine nephrotoxicity in the rat. Kaskel FJ, et al. **Renal Physiol Biochem** 1989 Jul–Aug;12(4):250–9

Perturbation of T-cell differentiation in lethally irradiated rats reconstituted with syngeneic bone marrow and treated with cyclosporin-A. Bos GM, et al. **Thymus** 1989; 14(1–3):155–61

Chronic renal lesions in rats after long-term treatment with cyclosporine A. Bäckman L, et al. **Transplant Proc** 1990 Feb;22(1):133–4

Studies of cyclosporine and metabolite toxicity in renal and hepatocyte culture systems. Bowers LD. **Transplant Proc** 1990 Jun;22(3):1135–6

Sandimmun metabolites: their potential to cause adverse reactions in the rat. Donatsch P, et al. **Transplant Proc** 1990 Jun;22(3):1137–40

Nephrotoxicity of cyclosporine G and A in the Sprague-Dawley rat. Duncan JI, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1391–2

The effect of hydergine on cyclosporine-induced nephrotoxicity in kidney allografted rats. Ijzermans JN, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1385–6

Mitochondrial alterations after cyclosporine and ischemia: insights on the pathophysiology of nephrotoxicity. Khauli RB, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1395–7

Mechanisms of cyclosporine A hypertension. Lustig S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1262–4

Age and dose dependence of cyclosporine G nephrotoxicity in BALB/c mice. Masri M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1212–3

The synthetic prostaglandin E1 analogue rioprostil reduces the nephrotoxic potential of cyclosporine A. Metz-Kurschel U, et al. **Transplant Proc** 1990 Aug; 22(4):1713–6

Cyclosporine nephrotoxicity: pathogenetic factors and prevention. Ryffel B, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1635–6

Prevention of cyclosporine-associated arteriolopathy by p-aminobenzoic acid-N-D-mannoside sodium salt (K-MAP) in spontaneous hypertensive rats. Teraoka S, et al. **Transplant Proc** 1990 Aug;22(4):1717–9

Mechanism of the preventive effect of aminobenzoic acid salt on pancreatic islet B cell toxicity by cyclosporine. Teraoka S, et al. **Transplant Proc** 1990 Apr;22(2):863–6

Angiotensin-converting enzyme inhibition or aldosterone antagonism reduces cyclosporine nephrotoxicity in the rat. Thomson AW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1242–3

Induction of a syngeneic graft-versus-host disease-like syndrome in DBA/2 mice. Bryson JS, et al. **Transplantation** 1989 Dec;48(6):1042–7

Immunosuppressive and cardiotoxic effects of cyclosporine in CBA mice. Mottram PL, et al. **Transplantation** 1989 Oct; 48(4):720–3

Alterations in proteolytic enzymes of the proximal tubule in a rat model of cyclosporine nephrotoxicity. Olbricht CJ, et al. **Transplantation** 1990 Sep;50(3):378–81

Chronic cyclosporine-induced nephropathy in the rat. A medullary ray and inner stripe injury. Rosen S, et al. **Transplantation** 1990 Feb;49(2):445–52

Evaluation of the effect of experimental cyclosporine toxicity on male reproduction and renal function. Reversal by concomitant human chorionic gonadotropin administration. Seethalakshmi L, et al. **Transplantation** 1990 Jan;49(1):17–9

The thymus and prolonged administration of cyclosporine. Irreversible immunopathologic changes associated with autologous pseudo-graft-versus-host disease. Shinozawa T, et al. **Transplantation** 1990 Jul;50(1):106–11

Cyclosporine-induced hypertension in sheep. The role of thromboxanes. Tresham JJ, et al. **Transplantation** 1990 Jan; 49(1):144–8

Evidence that alterations in renal metabolism and lipid peroxidation may contribute to cyclosporine nephrotoxicity. Walker RJ, et al. **Transplantation** 1990 Sep; 50(3):487–92

Effects of prolonged cyclosporine-A treatment on the Leydig cells of the rat testis. Cavallini L, et al. **Virchows Arch [B]** 1990;58(3):215–20

Endothelium-dependent vascular responses: effect of hypertension and cyclosporin A. Lüscher TF, et al. **Z Kardiol** 1989;78 Suppl 6:132–6 (39 ref.)

[Nephrotoxicity of the combination of cyclosporin and aminoglycoside in rats. Comparative study of gentamicin and amikacin] Gibey R, et al. **Pathol Biol (Paris)** 1990 Jun; 38(5 (Pt 2)):513–6 (Eng. Abstr.) **(Fre)**

[Toxicity of cyclosporin A for corneal endothelium in tissue culture] Böhnke M, et al. **Fortschr Ophthalmol** 1989; 86(4):291–4 (Eng. Abstr.) **(Ger)**

[Effect of verapamil on hepatorenal toxicity induced by cyclosporin] Aller Reyero MA, et al. **Arch Esp Urol** 1989 Nov–Dec;42(9):847–50 (Eng. Abstr.) **(Spa)**

URINE

Urinary excretion of ciclosporin and 17 of its metabolites in renal allograft recipients. Bleck JS, et al. **Pharmacology** 1989;39(3):160–4

CYCLOSTOMES

Cyclostome models for speculation on evolution of vertebrate endocrine systems. Gorbman A. **J Exp Zool Suppl** 1990; 4:137–41

ANATOMY & HISTOLOGY

Sex differentiation in the hagfish Eptatretus stouti. Gorbman A. **Gen Comp Endocrinol** 1990 Feb;77(2):309–23

Organization of the six motor nuclei innervating the ocular muscles in lamprey. Fritzsch B, et al. **J Comp Neurol** 1990 Apr 22;294(4):491–506

Organization of the primary projections of the lateral line nerves in the lamprey Lampetra japonica. Koyama H, et al. **J Comp Neurol** 1990 May 8;295(2):277–89

Projections ascending from the spinal cord to the brain in petromyzontid and myxinoid agnathans. Ronan M, et al. **J Comp Neurol** 1990 Jan 22;291(4):491–508

Cytochemical detection of disulfide and sulfhydryl groups in lamprey aortic microfibrils. Isokawa K. **J Nihon Univ Sch Dent** 1990 Jun;32(2):81–92

Ganglion cells and retinopetal fibers of the larval lamprey retina: an HRP ultrastructural study. De Miguel E, et al. **Neurosci Lett** 1989 Nov 20;106(1–2):1–6

BLOOD

Erythrocyte binding factors in the sera of the adult lamprey Geotria australis. Feldwick AC, et al. **Dev Comp Immunol** 1990 Winter;14(1):39–48

CO2 transport properties of the blood of a primitive vertebrate, Myxine glutinosa (L.). Tufts BL, et al. **Exp Biol** 1990;48(6):341–7

GENETICS

Complete sequence of the lamprey fibrinogen alpha chain. Wang YZ, et al. **Biochemistry** 1989 Dec 12;28(25):9801–6

Characterization of two genetically distinct type I-like collagens from lamprey (Entosphenus japonicus). Matsui R, et al. **Comp Biochem Physiol [B]** 1990;95(4):669–75

METABOLISM

Three types of GABA-immunoreactive cells in the lamprey spinal cord. Brodin L, et al. **Brain Res** 1990 Jan 29; 508(1):172–5

5-hydroxytryptamine immunoreactive varicosities in the lamprey spinal cord have no synaptic specializations--an ultrastructural study. Christenson J, et al. **Brain Res** 1990 Apr 2;512(2):201–9

Characterization of cytochrome P-450-dependent activities in hagfish, dogfish, perch and spectacle caiman. Andersson T, et al. **Comp Biochem Physiol [B]** 1989;94(1):99–105

Thermal behaviour of A4 lactate dehydrogenase purified from the heterothermic and sympatric vertebrate species Brook lamprey (Lampetra planeri), tench (Tenca tenca), smooth (Triturus vulgaris) and alpine newt (Triturus alpestris). Ferracin A, et al. **Comp Biochem Physiol [B]** 1989;94(3):435–43

Neurohormonal peptides in the gut of the Atlantic hagfish (Myxine glutinosa) detected using antisera raised against mammalian regulatory peptides. Conlon JM, et al. **Gen Comp Endocrinol** 1989 Nov;76(2):292–300

Detection of Met-enkephalin and Leu-enkephalin in the brain of the hagfish, Eptatretus stouti, and the lamprey, Petromyzon marinus. Dores RM, et al. **Gen Comp Endocrinol** 1990 Mar;77(3):489–99

Insulin-like immunoreactivity in the brain of two hagfishes, Eptatretus stouti and Myxine glutinosa [published erratum appears in Gen Comp Endocrinol 1990 May;78(2):328–9] Thorndyke MC, et al. **Gen Comp Endocrinol** 1989 Dec; 76(3):371–81

Distribution of histaminergic neurons in the brain of the lamprey Lampetra fluviatilis as revealed by histamine-immunohistochemistry. Brodin L, et al. **J Comp Neurol** 1990 Feb 15;292(3):435–42

Multiple forms of pancreatic polypeptide-related compounds in the lamprey CNS: partial characterization and immunohistochemical localization in the brain stem and spinal cord. Brodin L, et al. **J Neurosci** 1989 Oct; 9(10):3428–42

Tyrosine hydroxylase immunoreactive interplexiform cells in the lamprey retina. de Miguel E, et al. **Neurosci Lett** 1990 May 31;113(2):151–5

PHYSIOLOGY

Toxicant extraction efficiency and branchial NaCl fluxes in lampreys exposed to Kepone. Mallatt J, et al. **Arch Environ Contam Toxicol** 1990 May–Jun;19(3):307–13

Effects of bicuculline and strychnine on synaptic inputs to edge cells during fictive locomotion. Alford S, et al. **Brain Res** 1990 Feb 12;509(1):137–40

GABAergic control of rhythmic activity in the presence of strychnine in the lamprey spinal cord. Alford S, et al. **Brain Res** 1990 Jan 8;506(2):303–6

CNQX and DNQX block non-NMDA synaptic transmission but not NMDA-evoked locomotion in lamprey spinal cord. Alford S, et al. **Brain Res** 1990 Jan 8;506(2):297–302

Evidence for functional regeneration in the adult lamprey spinal cord following transection. Cohen AH, et al. **Brain Res** 1989 Sep 4;496(1–2):368–72

Activation of N-methyl-D-aspartate (NMDA) receptors augments repolarizing responses in lamprey spinal neurons. Hill RH, et al. **Brain Res** 1989 Oct 16;499(2):388–92

Control of respiratory motor pattern by sensory neurons in spinal cord of lamprey. Thompson KJ. **J Comp Physiol [A]** 1990 Mar;166(5):675–84

Monosynaptic excitatory amino acid transmission from the posterior rhombencephalic reticular nucleus to spinal neurons involved in the control of locomotion in lamprey. Ohta Y, et al. **J Neurophysiol** 1989 Nov;62(5):1079–89

Locomotor recovery in spinal-transected lamprey: regenerated spinal coordinating neurons and mechanosensory inputs couple locomotor activity across a spinal lesion. McClellan AD. **Neuroscience** 1990; 35(3):675–85

Mechanisms underlying the serotonergic modulation of the spinal circuitry for locomotion in lamprey. Wallén P, et al. **Prog Brain Res** 1989;80:321–7; discussion 315–9 (29 ref.)

[The effect of glycine and gamma-aminobutyric acid on the evoked activity of the spinal cord motor neurons in the lamprey] Batueva IV, et al. **Neirofiziologiia** 1990;

22(3):391–4 (Eng. Abstr.) (Rus)
[The effect of glycine and gamma-aminobutyric acid on the excitatory postsynaptic potentials of the spinal motor neurons in the lamprey in the presence of antagonists] Batueva IV, et al. **Neirofiziologiia** 1990;22(3):394–7 (Eng. Abstr.) (Rus)

CYCLOTHYMIC DISORDER see under **AFFECTIVE DISORDERS**

CYCLOTRONS see **PARTICLE ACCELERATORS**

CYLINDROMA

Intraosseous adenoid cystic carcinoma of the mandible. Johnson PA, et al. **Br J Oral Maxillofac Surg** 1989 Dec; 27(6):501–5 (20 ref.)
Recurrent bronchial carcinoid [letter] Kirschner PA. **Chest** 1990 May;97(5):1278
Peripheral adenoid cystic carcinoma of the lung. Dalton ML, et al. **South Med J** 1990 May;83(5):577–9
[Cylindroma of the esophagus] Mamontov AS, et al. **Grud Serdechnososudistaia Khir** 1990;(4):71–3 (Rus)

ANALYSIS

Proteoglycans detected by monoclonal antibodies in adenoid cystic carcinoma of salivary glands. Hashimura K, et al. **Anticancer Res** 1990 Jul–Aug;10(4):1083–9

COMPLICATIONS

Adenoid cystic carcinoma of the tongue presenting as a hypoglossal nerve palsy. Silvester KC, et al. **Br J Oral Maxillofac Surg** 1990 Apr;28(2):122–4 (6 ref.)
Hypercalcemia in atypical bronchial carcinoid tumors. Allen MB, et al. **Chest** 1989 Nov;96(5):1206–8
[Adenoid cystic carcinoma presenting as cavernous sinus syndrome: a clinico-pathological study of two cases] Yamamoto T, et al. **No To Shinkei** 1989 May;41(5):519–25 (Eng. Abstr.) (Jpn)

DIAGNOSIS

Carcinoid tumour of bronchus—masquerading as carcinoma. Hira HS, et al. **Indian J Chest Dis Allied Sci** 1989 Oct–Dec; 31(4):275–7
Sessile lesion of the retromolar pad [clinical conference] Amrhein ES, et al. **J Oral Maxillofac Surg** 1990 Mar; 48(3):284–7
Pneumothorax: an unusual manifestation of a bronchial carcinoid. Wagner RB, et al. **Md Med J** 1990 Mar; 39(3):263–5
Magnetic resonance imaging in the diagnosis of intracranial spread of carcinoma via the trigeminal nerve. Medina JE, et al. **Otolaryngol Head Neck Surg** 1990 Apr;102(4):416–9
Perineural tumor extension through the foramen ovale: evaluation with MR imaging. Laine FJ, et al. **Radiology** 1990 Jan;174(1):65–71
[Clinical analysis of 11 cases of primary tracheal adenoid cystic carcinoma and review of literature] Cai BQ. **Chung Hua Chung Liu Tsa Chih** 1990 Jan;12(1):72–4 (Eng. Abstr.) (Chi)
[Malignant tumor of the external auditory canal] Hernández Martín A, et al. **Acta Otorrinolaringol Esp** 1989 Sep–Oct; 40(5):369–72 (30 ref.) (Eng. Abstr.) (Spa)

DRUG THERAPY

Southwest Oncology Group study of mitoxantrone for treatment of patients with advanced adenoid cystic carcinoma of the head and neck. Mattox DE, et al. **Invest New Drugs** 1990 Feb;8(1):105–7
Cisplatin combination chemotherapy in squamous cell carcinoma and adenoid cystic carcinoma of the skin. Ikegawa S, et al. **J Dermatol** 1989 Jun;16(3):227–30

EPIDEMIOLOGY

Malignant tumours of the parotid: a study of 76 patients. Marandas P, et al. **Clin Otolaryngol** 1990 Apr;15(2):103–9

GENETICS

Multiple familial eccrine spiradenoma with cylindroma. Wright S, et al. **Acta Derm Venereol (Stockh)** 1990; 70(1):79–82
Familial multiple eccrine spiradenomas with cylindromatous features associated with epithelioma adenoides cysticum of Brooke. Berberian BJ, et al. **Cutis** 1990 Jul;46(1):46–50

METABOLISM

The expression of alpha vascular smooth-muscle actin in salivary gland tumors. Hirano T, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):692–6
Type VII collagen is a component of cylindroma basement membrane zone. Pfaltz M, et al. **J Cutan Pathol** 1989 Dec; 16(6):388–95
[Immunocytochemical demonstration of S-100 protein in adenoid cystic carcinoma of the salivary gland] Liu RS. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Nov; 24(6):338–9, 385 (Eng. Abstr.) (Chi)

PATHOLOGY

Adenoid cystic carcinoma of the uterine cervix. Cytologic features. Dayton V, et al. **Acta Cytol** 1990 Mar–Apr; 34(2):125–8 (13 ref.)
Adenoid cystic carcinoma. A clinicopathologic study with flow cytometric analysis. Greiner TC, et al. **Am J Clin Pathol** 1989 Dec;92(6):711–20
Primary adenoid cystic carcinoma masquerading as syringoma of the scalp. Kuramoto Y, et al. **Am J Dermatopathol** 1990 Apr;12(2):169–74
Dermal eccrine cylindroma. Batsakis JG. **Ann Otol Rhinol Laryngol** 1989 Dec;98(12 Pt 1):991–2
Carcinoid tumors of the middle ear. Krouse JH, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):547–52 (13 ref.)
Malignant degeneration of dermal cylindroma. Hammond DC, et al. **Ann Plast Surg** 1990 Feb;24(2):176–8
Extensive facial infiltration in an Ethiopian woman. Adenoid cystic carcinoma. Friedman-Birnbaum R, et al. **Arch Dermatol** 1990 Jul;126(7):953–4, 957
Biological characterization of pseudocyst-forming cell lines from human adenoid cystic carcinomas of minor salivary gland origin. Shirasuna K, et al. **Cancer Res** 1990 Jul 1; 50(13):4139–45
A morphometric analysis of individual cell death in bronchial carcinoids. al-Saffar N, et al. **Cell Tissue Kinet** 1990 Jul; 23(4):325–30
Early adenoid cystic carcinoma of the upper oesophagus. Blaauwgeers JL, et al. **Eur J Surg Oncol** 1990 Feb; 16(1):77–81
Adenoid cystic carcinoma (ACC) of left sphenoidal sinus (case report). Jan GM, et al. **Indian J Pathol Microbiol** 1989 Apr;32(2):142–5
Prognostic factors for adenoid cystic carcinoma of the head and neck: a retrospective evaluation of 96 cases. Hamper K, et al. **J Oral Pathol Med** 1990 Mar;19(3):101–7
Solid adenoid cystic carcinoma of the maxilla. Cleveland D, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):470–8
Adenoid cystic carcinoma of the palate in a 9-year-old boy. Jones DC, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):483–6
Malignant dermal cylindromas. Do they exist? A morphological and immunohistochemical study and review of the literature. Iyer PV, et al. **Pathology** 1989 Oct; 21(4):269–74 (33 ref.)
Long-term follow-up of classical bronchial carcinoid tumors. Clinicopathologic observations. Warren WH, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(2):125–30
Clinical applications of the pathological properties of small cell carcinoma, large cell carcinoma, and adenoid cystic carcinoma of the lung. Ishida T, et al. **Semin Surg Oncol** 1990;6(1):53–63
Adenoid cystic carcinoma metastasizing before detection of the primary lesion. Warren CJ, et al. **South Med J** 1989 Oct;82(10):1277–9
Correlation of computed tomographic and histopathologic features in malignant transformation of benign mixed tumor of lacrimal gland. Font RL, et al. **Surv Ophthalmol** 1990 May–Jun;34(6):449–52
[Establishment of a human cancer cell line from adenoid cystic carcinoma of the minor salivary gland] Li SL. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan; 25(1):29–31, 62 (Eng. Abstr.) (Chi)
[Association of an adenoid cystic epithelioma with a clear cell carcinoma of the palate] Brousset P, et al. **Ann Pathol** 1989;9(5):351–4 (Eng. Abstr.) (Fre)
[Pleuro-pulmonary localization secondary to adenoid cystic carcinoma of the sub-maxillary glands (letter)] M'Raihi ML, et al. **Rev Pneumol Clin** 1989;45(5):226–8 (Fre)
[Adenoid cystic carcinoma in the head and neck. A retrospective study of 12 cases] Ennouri A, et al. **Rev Stomatol Chir Maxillofac** 1990;91(4):295–8 (11 ref.) (Eng. Abstr.) (Fre)
[Malignant transformation of fibroadenoma of the breast] Rohde E. **Zentralbl Gynakol** 1989;111(24):1629–31 (Eng. Abstr.) (Ger)
[Various rare tumors of the lung] Callegari P, et al. **Ann Ital Chir** 1989 Nov–Dec;60(6):515–21; discussion 521–2 (Eng. Abstr.) (Ita)
[A case of adenoid cystic carcinoma of the esophagus] Murao T, et al. **Gan No Rinsho** 1989 Dec;35(15):1759–63 (Eng. Abstr.) (Jpn)

RADIOGRAPHY

CT demonstration of calcification in an adenoid cystic carcinoma of the lung [letter] Yoshikawa J, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):419
Primary tracheal and bronchial adenoid cystic carcinoma (cylindroma). Baekelandt MA, et al. **ROFO** 1989 Sep; 151(3):381–3
[Cough, dyspnea, hemoptysis (clinical conference)] Nati R, et al. **Schweiz Rundsch Med Prax** 1990 Feb 13;79(7):175–8 (Eng. Abstr.) (Ger)
[Adenoid cystic carcinoma of the nasal fossa] Márquez Dorsch FJ, et al. **Acta Otorrinolaringol Esp** 1988 Jan–Feb; 39(1):49–51 (Eng. Abstr.) (Spa)

RADIONUCLIDE IMAGING

Imaging of tumours in the parotid region with indium-111 labelled monoclonal antibody reacting with carcinoembryonic antigen. Kairemo KJ, et al. **Acta Oncol** 1990;29(4):539–43

RADIOTHERAPY

Results of fast neutron therapy of adenoidcystic carcinomas of the head and neck at the neutron facility Hamburg-Eppendorf. Krüll A, et al. **Strahlenther Onkol** 1990 Jan;166(1):107–10
Neutron radiotherapy in adenoidcystic carcinoma: preliminary experience at the Münster neutron facility. Pötter R, et al. **Strahlenther Onkol** 1990 Jan;166(1):78–85
Fast neutron radiotherapy for advanced malignant tumors of the paranasal sinuses. Schwarz R, et al. **Strahlenther Onkol** 1990 Jan;166(1):99–101
[Minor salivary gland tumors of the nasopharynx] Li TS. **Chung Hua Chung Liu Tsa Chih** 1990 Mar;12(2):127–9 (Eng. Abstr.) (Chi)
[Long-term results of postoperative and primary radiotherapy of carcinoma of the salivary glands: importance of dosage and target volume] Glanzmann C. **Strahlenther Onkol** 1990 Mar;166(3):183–9 (Eng. Abstr.) (Ger)

SECONDARY

Rib lesions on bone scan after thoracotomy. De Geeter F. **Clin Nucl Med** 1990 Jan;15(1):40
Increased accumulation of N-isopropyl-(I-123)p-iodoamphetamine in bronchial carcinoid tumor. Nishizawa S, et al. **J Nucl Med** 1990 Feb; 31(2):240–2
[A radiologic study of metastatic pulmonary tumor originating in the oral and maxillofacial regions] Sun DX. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):261–3, 318 (Eng. Abstr.) (Chi)
[Pulmonary metastases of malignant tumors of the oral and maxillofacial region. Analysis of 70 cases] Wu YT. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):130–3, 190 (Eng. Abstr.) (Chi)
[A case of pulmonary metastasis from adenoid cystic carcinoma of the trachea] Takahashi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jun;38(6):1063–7 (10 ref.) (Eng. Abstr.) (Jpn)

SECRETION

Bronchial and thymic carcinoids and the ectopic ACTH syndrome [editorial; comment] Odell WD. **Ann Thorac Surg** 1990 Jul;50(1):5–6 Comment on: Ann Thorac Surg 1990 Jul;50(1):52–7. Comment on: Ann Thorac Surg 1990 Jul;50(1):58–61.
Management of the ectopic ACTH syndrome due to thoracic carcinoids [see comments] Pass HI, et al. **Ann Thorac Surg** 1990 Jul;50(1):52–7 (38 ref.) Comment in: Ann Thorac Surg 1990 Jul;50(1):5–6.
[Ectopic ACTH syndrome caused by bronchial carcinoid] Lu ZL, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Nov; 28(11):642–5, 699 (Eng. Abstr.) (Chi)

SURGERY

Oncologic and functional considerations of total glossectomy. Sultan MR, et al. **Am J Surg** 1989 Oct;158(4):297–302
Neck dissection for laryngeal adenoid cystic carcinoma: is it indicated? Ferlito A, et al. **Ann Otol Rhinol Laryngol** 1990 Apr;99(4 Pt 1):277–80
Adenoid cystic carcinoma of the parotid gland: a review of surgical management with reference to the facial nerve. Weinstein GS, et al. **Ann Otol Rhinol Laryngol** 1989 Nov; 98(11):845–7
Submandibular gland tumors. Adverse histologic factors and therapeutic implications. Weber RS, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1055–60
Treatment of a malignant bronchial carcinoid affecting the mediastinum and left atrium by radical two stage resection with cardiopulmonary bypass and somatostatin infusion. Darby C, et al. **Br Heart J** 1990 Jan;63(1):55–7
Nd:YAG laser photoresection of low-grade malignant tumors of the tracheobronchial tree. Díaz-Jiménez JP, et al. **Chest** 1990 Apr;97(4):920–2
Intraoral adenoid cystic carcinoma: the role of postoperative radiotherapy in local control. van der Wal JE, et al. **Head Neck** 1989 Nov–Dec;11(6):497–9
Adenoid cystic carcinoma with intracranial extension: report of three cases. Wakisaka S, et al. **Neurosurgery** 1990 Jun; 26(6):1060–5
[Bronchial carcinoid. A clinical study of 37 patients] Liewald F, et al. **Dtsch Med Wochenschr** 1989 Nov 3;114(44):1692–6 (Eng. Abstr.) (Ger)
[Treatment of semi-malignant tumors in children and adolescents using the neodymium YAG laser—indications and differentiation from surgical procedures] Nowak W. **Z Kinderchir** 1988 Sep;43 Suppl 1:30–2 (Ger)
[A case of primary tracheal adenoid cystic carcinoma performed curative surgical resection] Kondo D, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):672–6 (Eng. Abstr.) (Jpn)
[Tracheal tumor resection and reconstruction surgery] Inoue H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Feb; 28(2):272–7 (Eng. Abstr.) (Jpn)
[Cutaneous cylindroma—cylindroma cutis] Bajcar S, et al. **Przegl Dermatol** 1989 Sep–Dec;76(5–6):426–9 (Eng. Abstr.) (Pol)
[Immediate results of the use of prospidin in a cyanoacrylate glue compound in cancer of the esophagus] Chissov VI, et al. **Sov Med** 1989;(7):28–31 (Eng. Abstr.) (Rus)

[A case of cylindroma of the nasal cavity. Surgery] del Cañizo Alvarez C, et al. **Acta Otorrinolaringol Esp** 1990 Jan-Feb;41(1):69-71 (Eng. Abstr.) **(Spa)**

THERAPY

Adenoid cystic carcinoma of the salivary glands. Management of recurrent, advanced, or persistent disease with hyperthermia and radiation therapy. Barnett TA, et al. **Cancer** 1990 Jun 15;65(12):2648-56

Induction of bone formation in an adenoid cystic carcinoma of the maxillary sinus by adoptive immunotherapy involving intra-arterial injection of lymphokine-activated killer cells and recombinant interleukin-2 in combination with radiotherapy. Sato M, et al. **J Biol Response Mod** 1990 Jun;9(3):329-34

ULTRASTRUCTURE

Banded structures in multiple familial trichoepithelioma. Pfaltz M, et al. **Acta Derm Venereol (Stockh)** 1990; 70(2):162-4

Adenoid cystic carcinoma of the lacrimal sac. Kincaid MC, et al. **Ophthalmology** 1989 Nov;96(11):1655-8

CYMARIGENIN see **STROPHANTHIDIN**

CYMARINE see under **STROPHANTHINS**

CYPERQUAT see **1-METHYL-4-PHENYLPYRIDINIUM**

CYPRINIDAE

Partial characterization of a carotenoid droplet ATPase and its possible significance in carotenoid droplet dispersion in goldfish xanthophores. Wu BY, et al. **Cell Motil Cytoskeleton** 1990;15(3):147-55

Actin-dependent carotenoid droplet dispersion in permeabilized cultured goldfish xanthophores. Yu FX, et al. **Cell Motil Cytoskeleton** 1990;15(3):139-46

Hepatic steatosis in zebra fish (Brachydanio rerio) induced by long-term exposure to gamma-hexachlorocyclohexane. Braunbeck T, et al. **Ecotoxicol Environ Safety** 1990 Jun; 19(3):355-74

Fish cell lines: establishment and characterization of three new cell lines from grass carp (Ctenopharyngodon idella). Lu YA, et al. **In Vitro Cell Dev Biol** 1990 Mar;26(3 Pt 1):275-9

Effects of textile dye stuff effluent on food utilization of Cyprinus carpio (Linn.). Sakthivel M, et al. **Indian J Exp Biol** 1989 Dec;27(12):1032-4

Eurythermic and stenothermic growth of cultured fish cells and their thermosensitivity. Mitani H, et al. **J Cell Sci** 1989 Aug;93 (Pt 4):731-7

Mercury, cadmium and lead in eels and roach: the effects of size, season and locality on metal concentrations in flesh and liver. Barak NA, et al. **Sci Total Environ** 1990 Mar; 92:249-56

Plasma electrolyte changes after ingestion of bile extract of the grass carp (Ctenopharyngodon idellus) in rats. Chen CF, et al. **Toxicol Lett** 1990 Feb;50(2-3):221-8

ANATOMY & HISTOLOGY

Species-specific reaction of liver ultrastructure in Zebrafish (Brachydanio rerio) and trout (Salmo gairdneri) after prolonged exposure to 4-chloroaniline. Braunbeck T, et al. **Arch Environ Contam Toxicol** 1990 May-Jun; 19(3):405-18

Distribution of catecholamine-synthesizing enzymes in goldfish brains: presumptive dopamine and norepinephrine neuronal organization. Hornby PJ, et al. **Brain Behav Evol** 1990;35(1):49-64

Peripheral distribution and central projections of the lateral-line nerves in goldfish, Carassius auratus. Puzdrowski RL. **Brain Behav Evol** 1989;34(2):110-31

Dendritic growth of DAPI-accumulating amacrine cells in the retina of the goldfish. Brown RN Jr, et al. **Brain Res Dev Brain Res** 1989 Nov 1;50(1):123-8

Comparative anatomy of the intestine of Cyprinus carpio Linnaeus 1758 and Salmo trutta Linnaeus 1758. Komárek V, et al. **Folia Morphol (Praha)** 1990;38(1):44-54

Müller (glial) cells but not astrocytes in the retina of the goldfish possess orthogonal arrays of particles. Berg-von der Emde K, et al. **GLIA** 1989;2(6):458-69

An ultrastructural study of crossbridge arrangement in the fish skeletal muscle thick filament. Kensler RW, et al. **J Cell Sci** 1989 Nov;94 (Pt 3):391-401

Quantitative analysis of cone photoreceptor-horizontal cell connectivity patterns in the retina of a cyprinid fish: electron microscopy of functionally identified and HRP-labelled horizontal cells. Downing JE, et al. **J Comp Neurol** 1989 Nov 22;289(4):537-53

Interplexiform cells of the goldfish retina. Kalloniatis M, et al. **J Comp Neurol** 1990 Jul 15;297(3):340-58

Electron microscopic study of immunocytochemically labeled centrifugal fibers in the goldfish retina. Kawamata K, et al. **J Comp Neurol** 1990 Mar 22;293(4):655-64

Afferent connections of the valvula cerebelli in two teleosts, the common goldfish and the green sunfish. Wullimann MF, et al. **J Comp Neurol** 1989 Nov 22;289(4):554-67

Neuroglia in the optic tectum of teleosts. Lara JM, et al. **J Hirnforsch** 1989;30(4):465-72

Topography and ultrastructure of commissural interneurons that may establish reciprocal inhibitory connections of the Mauthner axons in the spinal cord of the tench, Tinca tinca L. Yasargil GM, et al. **J Neurocytol** 1990 Feb;19(1):111-26

Tropic effect of dexamethasone on goldfish melanocytoma cells: induction of calcium-dependent but protein synthesis-independent morphological changes. Shih YL, et al. **Life Sci** 1990;47(4):313-8

Photoreceptor-horizontal cell synaptic connections in teleost retina: electron microscopical survey of lucifer yellow-HRP double marking. Kouyama N, et al. **Neurosci Res Suppl** 1989;10:S89-100

Immunocytochemical studies of centrifugal fiber in the goldfish retina. Ohtsuka T, et al. **Neurosci Res Suppl** 1989; 10:S141-50 (23 ref.)

[Innervation opf the juxtaglomerular complex (JGC) of the kidney in vertebrates] Koval'chuk LE, et al. **Arkh Anat Gistol Embriol** 1990 Apr;98(4):41-7 (Eng. Abstr.) **(Rus)**

BLOOD

Profile of metal-binding proteins and heme oxygenase in red carp treated with heavy metals, pesticides and surfactants. Ariyoshi T, et al. **Bull Environ Contam Toxicol** 1990 Apr; 44(4):643-9

Relationship between serum GOT of Cyprinus carpio and biotic index of diatom in the diagnosis of water quality. Zhou RQ. **Bull Environ Contam Toxicol** 1990 Jun; 44(6):844-50

Seasonal changes in serum gonadotropin, testosterone, 11-ketotestosterone, and estradiol-17 beta levels and their relation to tumor burden in gonadal tumor-bearing carp x goldfish hybrids in the Great Lakes. Down NE, et al. **Gen Comp Endocrinol** 1990 Feb;77(2):192-201

Blood steroid levels in the goldfish: measurement of six ovarian steroids in small volumes of serum by reverse-phase high-performance liquid chromatography and radioimmunoassay. Venkatesh B, et al. **Gen Comp Endocrinol** 1989 Dec;76(3):398-407

Isolation of melanized cell lines with stable phenotypes from a goldfish erythrophoroma cell line and cryopreservation of these cells by the use of autologous serum. Chou SC, et al. **In Vitro Cell Dev Biol** 1989 Sep;25(9):813-20

Morphology of blood cells in carp (Cyprinus carpio L.). Imagawa T, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1163-72

EMBRYOLOGY

Origin and organization of the zebrafish fate map. Kimmel CB, et al. **Development** 1990 Apr;108(4):581-94

Development of segmentation in zebrafish. Kimmel CB, et al. **Development** 1988;104 Suppl:197-207 (42 ref.)

Cell movements during epiboly and gastrulation in zebrafish. Warga RM, et al. **Development** 1990 Apr;108(4):569-80

The development of a simple scaffold of axon tracts in the brain of the embryonic zebrafish, Brachydanio rerio. Wilson SW, et al. **Development** 1990 Jan;108(1):121-45

Axonogenesis in the brain of zebrafish embryos. Chitnis AB, et al. **J Neurosci** 1990 Jun;10(6):1892-905

An identified motoneuron with variable fates in embryonic zebrafish. Eisen JS, et al. **J Neurosci** 1990 Jan;10(1):34-43

Gene transfer, expression and inheritance of pRSV-rainbow trout-GH cDNA in the common carp, Cyprinus carpio (Linnaeus). Zhang PJ, et al. **Mol Reprod Dev** 1990 Jan; 25(1):3-13

Early axonal contacts during development of an identified dendrite in the brain of the zebrafish. Kimmel CB, et al. **Neuron** 1990 Apr;4(4):535-45

Organization of hindbrain segments in the zebrafish embryo. Trevarrow B, et al. **Neuron** 1990 May;4(5):669-79

GENETICS

The complete nucleotide sequence of the growth-hormone gene from the common carp (Cyprinus carpio). Chiou CS, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):91-4

Early onset of phenotype and cell patterning in the embryonic zebrafish retina. Larison KD, et al. **Development** 1990 Jul;109(3):567-76

Expression of a homeobox gene product in normal and mutant zebrafish embryos: evolution of the tetrapod body plan. Molven A, et al. **Development** 1990 Jun;109(2):279-88

Stable lines of transgenic zebrafish exhibit reproducible patterns of transgene expression. Stuart GW, et al. **Development** 1990 Jul;109(3):577-84

The zebrafish homeobox gene hox-2.2: transcription unit, potential regulatory regions and in situ localization of transcripts. Njølstad PR, et al. **EMBO J** 1990 Feb; 9(2):515-24

A type II keratin is expressed in glial cells of the goldfish visual pathway. Giordano S, et al. **Neuron** 1989 May; 2(5):1507-16

Pathfinding and synapse formation in a zebrafish mutant lacking functional acetylcholine receptors. Westerfield M, et al. **Neuron** 1990 Jun;4(6):867-74

Nucleotide and deduced amino acid sequence of the goldfish neural nicotinic acetylcholine receptor beta-2 subunit. Hieber V, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5307

Nucleotide and deduced amino acid sequence of the goldfish neural nicotinic acetylcholine receptor alpha-3 subunit. Hieber V, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5293

Genetics and early development of zebrafish. Kimmel CB. **Trends Genet** 1989 Aug;5(8):283-8 (39 ref.)

[Study on LDH isoenzymes of hybrid yue-carp and its parents] Li WC. **J Chuan Hsueh Pao** 1988;15(1):46-51 (Eng. Abstr.) **(Chi)**

[Effects of UV-irradiation of carp sperm and its modification by caffeine] Rekurbatskil AV. **Genetika** 1989 Nov; 25(11):2033-8 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

A functional explanation for a sequence of developmental events in the carp. The absence of gills in early larvae. Osse JW. **Acta Morphol Neerl Scand** 1989;27(1-2):111-8

Life history of roach, Rutilus rutilus (Cyprinidae, Teleostei). A qualitative and quantitative study on the development of sensory brain areas. Brandstätter R, et al. **Brain Behav Evol** 1989;34(1):35-42

Brain growth patterns in four European cyprinid fish species (Cyprinidae, Teleostei): roach (Rutilus rutilus), bream (Abramis brama), common carp (Cyprinus carpio) and sabre carp (Pelecus cultratus). Brandstätter R, et al. **Brain Behav Evol** 1990;35(4):195-211

Development of newly formed nephrons in the goldfish kidney following hexachlorobutadiene-induced nephrotoxicity. Reimschuessel R, et al. **Toxicol Pathol** 1990; 18(1 Pt 1):32-8

IMMUNOLOGY

Effect of levamisole on the lymphocyte and macrophage activity in carp (Cyprinus carpio). Siwicki AK, et al. **Ann Rech Vet** 1990;21(2):95-100

A cell line (CLC) of adherent peripheral blood mononuclear leucocytes of normal common carp Cyprinus carpio. Faisal M, et al. **Dev Comp Immunol** 1990 Spring;14(2):255-60

Lymphomyeloid cells, susceptibility to erythrodermatitis of carp and bacterial antigens. Sövényi JF, et al. **Dev Comp Immunol** 1990 Spring;14(2):185-200

In vivo effect of the organophosphorus insecticide trichlorphon on the immune response of carp (Cyprinus carpio). I. Effect of contamination on antibody production in relation to residue level in organs. Cossarini-Dunier M, et al. **Ecotoxicol Environ Safety** 1990 Feb;19(1):93-8

In vivo effect of the organophosphorus insecticide trichlorphon on immune response of carp (Cyprinus carpio). II. Effect of high doses of trichlorphon on nonspecific immune response. Siwicki AK, et al. **Ecotoxicol Environ Safety** 1990 Feb;19(1):99-105

A major histocompatibility locus in fish: serological identification and segregation of transplantation antigens in the common carp (Cyprinus carpio L.). Kaastrup P, et al. **Immunogenetics** 1989;30(4):284-90

Skin grafting in gynogenetic common carp (Cyprinus carpio, L.). The development of histocompatible clones. Komen J, et al. **Transplantation** 1990 Apr;49(4):788-93

[The dynamics of the immunologic indices of carp exposed to methylene blue] Balakhnin IA, et al. **Fiziol Zh** 1989 Jul-Aug;35(4):44-52 (Eng. Abstr.) **(Rus)**

METABOLISM

Turnover of serotonin in brain of an anoxia-tolerant vertebrate, the crucian carp. Nilsson GE. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1308-12

Effect of pH on the accumulation kinetics of pentachlorophenol in goldfish. Stehly GR, et al. **Arch Environ Contam Toxicol** 1990 May-Jun;19(3):464-70

Gulonolactone oxidase is missing in teleost fish. The direct spectrophotometric assay. Dabrowski K. **Biol Chem Hoppe Seyler** 1990 Mar;371(3):207-14

The shift from C-19 to C-21 steroid synthesis in spawning male common carp, Cyprinus carpio, is regulated by the inhibition of androgen production by progestogens produced by spermatozoa. Barry TP, et al. **Biol Reprod** 1990 Jul;43(1):105-12

Development of an enzyme-linked immunosorbent assay for goldfish gonadotropin. Kah O, et al. **Biol Reprod** 1989 Jul; 41(1):68-73

The influence of calcium ionophore and activators of protein kinase C on steroid production by preovulatory ovarian follicles of the goldfish. Van der Kraak G. **Biol Reprod** 1990 Feb;42(2):231-8

Glutamate-immunoreactivity in the retina and optic tectum of goldfish. Kageyama GH, et al. **Brain Res** 1989 Nov 27; 503(1):118-27

Sequential course of uptake of intravitreal 5,7-dihydroxytryptamine by carp retinal cells. Negishi K, et al. **Brain Res** 1990 Jan 29;508(1):135-41

Anti-goldfish glial fibrillary acidic protein (GFAP) recognises astrocytes from rat CNS. Shehab SS, et al. **Brain Res** 1989 Dec 18;504(2):343-6

Alterations in gonadotropin-releasing hormone immunoactivities in discrete brain areas of male goldfish during spawning behavior. Yu KL, et al. **Brain Res** 1990 Mar 26;512(1):89-94

Effects of the environmental pollutants on heme oxygenase activity and cytochrome P-450 content in fish. Ariyoshi T, et al. **Bull Environ Contam Toxicol** 1990 Feb; 44(2):189-96

Cadmium and lead accumulation by goldfish exposed to aqueous refuse incinerator fly ash leachate. Bache CA, et al. **Bull Environ Contam Toxicol** 1989 Dec;43(6):846-9

Ca2(+)-binding site of carp parvalbumin recognized by monoclonal antibody. Tinner R, et al. **Cell Calcium** 1990 Jan;11(1):19-23

Localization of growth hormone-releasing factor-like immunoreactivity in the hypothalamo-hypophysial system of some teleost species. Olivereau M, et al. **Cell Tissue Res** 1990 Jan;259(1):73–80

Structural stability of fish myosin subfragment-1. Hamai M, et al. **Comp Biochem Physiol [B]** 1990;95(2):255–9

Purification and characterization of Cu,Zn-superoxide dismutase from common carp liver. Vig E, et al. **Comp Biochem Physiol [B]** 1989;94(2):395–7

Effect of beta-naphthoflavone and MCPA on liver and kidney drug-metabolizing enzymes from the carp, Cyprinus carpio. Riviere JL, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):276–84

Electron microscope autoradiographic examination of uptake behavior of lipophilic chemicals into fish gill. Saito S, et al. **Ecotoxicol Environ Safety** 1990 Apr;19(2):184–91

Participation of arachidonic acid metabolism in gonadotropin-releasing hormone stimulation of goldfish gonadotropin release. Chang JP, et al. **Gen Comp Endocrinol** 1989 Oct;76(1):2–11

Purification, characterization, and molecular cloning of gonadotropin subunits of silver carp (Hypophthalmichthys molitrix). Chang YS, et al. **Gen Comp Endocrinol** 1990 Apr; 78(1):23–33

Effect of a teleost GnRH analog on steroidogenesis by the follicle-enclosed goldfish oocytes, in vitro. Habibi HR, et al. **Gen Comp Endocrinol** 1989 Oct;76(1):95–105

Growth hormone-dependent potentiation of gonadotropin-stimulated steroid production by ovarian follicles of the goldfish. Van der Kraak G, et al. **Gen Comp Endocrinol** 1990 Aug;79(2):233–9

Arachidonic acid stimulates steroidogenesis in goldfish preovulatory ovarian follicles. Van der Kraak G, et al. **Gen Comp Endocrinol** 1990 Feb;77(2):221–8

Comparative immunohistochemical study of glial filament proteins (glial fibrillary acidic protein and vimentin) in goldfish, octopus, and snail. Cardone B, et al. **GLIA** 1990; 3(3):180–92

Expression of glial fibrillary acidic protein (GFAP) in goldfish optic nerve following injury. Stafford CA, et al. **GLIA** 1990;3(1):33–42

Distribution of GABA-like immunoreactivity in myenteric plexus of carp, frog and chicken. Gábriel R, et al. **Histochemistry** 1990;94(3):323–8

Differential distribution of serotoninergic inputs on the goldfish Mauthner cell. Gotow T, et al. **J Comp Neurol** 1990 Feb 8;292(2):255–68

GABA-ergic and glycinergic pathways in the inner plexiform layer of the goldfish retina. Muller JF, et al. **J Comp Neurol** 1990 Jan 8;291(2):281–304

SRIF-like immunoreactivity in the brain and pituitary of Tinca tinca (Cyprinidae, Teleostei). König B, et al. **J Hirnforsch** 1990;31(2):227–36

ATP and calmodulin dependent actomyosin aggregates induced by cytochalasin D in goldfish retinal ganglion cell axons in vitro. Edmonds BT, et al. **J Neurobiol** 1990 Jun; 21(4):555–66

Changes in free amino acid levels in various tissues of common carp in response to insulin injection followed by force-feeding an amino acid diet. Murai T, et al. **J Nutr** 1990 Jul;120(7):711–8

Tyrosine hydroxylase immunohistochemistry in the normal and 1-methyl-4-phenyl-tetrahydropyridine (MPP+)-treated retina of goldfish. Guarnieri T, et al. **Neurosci Lett** 1989 Dec 4;106(3):269–74

Serotonergic neurons in the intestine of two teleosts, Carassius auratus and Oreochromis mossambicus, and the effect of serotonin on transepithelial ion-selectivity and muscle tension. Kiliaan AJ, et al. **Neuroscience** 1989; 31(3):817–24

TRH stimulates the release of POMC-derived peptides from goldfish melanotropes. Tran TN, et al. **Peptides** 1989 Jul-Aug;10(4):835–41

Biosynthetic pathways of pteridines and their association with phenotypic expression in vitro in normal and neoplastic pigment cells from goldfish. Masada M, et al. **Pigment Cell Res** 1990 Mar-Apr;3(2):61–70

Release pattern of endogenous dopamine in teleost retinae during light adaptation and pharmacological stimulation. Kirsch M, et al. **Vision Res** 1989;29(2):147–54

MICROBIOLOGY

Characterization of an Aeromonas hydrophila strain isolated on a septicemic out-break in a fish-farm of Spain. Merino S, et al. **Microbiologia** 1988 Dec;4(3):181–4

[Spore-forming bacteria in carp and rainbow trout, raised in waste waters from a steam power plant] Kotliar AN, et al. **Mikrobiol Zh** 1984 Mar-Apr;46(2):6–10 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Ultrastructural observations on different developmental stages of Goussia sinensis (Chen, 1955), a parasite of the silver carp (Hypophthalmichthys molitrix Valenciennes, 1844). Baska F, et al. **Acta Vet Hung** 1989;37(1-2):81–7

An outbreak of bucephalosis in fish of the Main river. Hoffmann RW, et al. **Angew Parasitol** 1990 May;31(2):95–9

Development of "Csaba cells" in experimentally infected Cyprinus carpio. Körting W, et al. **Angew Parasitol** 1989 Aug;30(3):185–8

The role of tubificid oligochaetes in the transmission of Goussia carpelli. Steinhagen D, et al. **J Parasitol** 1990 Feb; 76(1):104–7

The parasitemia of cloned Trypanoplasma borreli Laveran and Mesnil, 1901, in laboratory-infected common carp (Cyprinus carpio L.). Steinhagen D, et al. **J Parasitol** 1989 Oct;75(5):685–9

Light and electron microscopic observations on the swimbladder stages of Sphaerospora renicola, a parasite of carp (Cyprinus carpio). Dyková I, et al. **Parasitol Res** 1990;76(3):228–37

PHYSIOLOGY

Mechanisms of temperature acclimation in the carp: a molecular biology approach. Gerlach GF, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):R237–44

Thermal acclimation and muscle contractile properties in cyprinid fish. Johnston IA, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 2):R231–6 (28 ref.)

Elastoidin turn-over during tail fin regeneration in teleosts. A morphometric and radioautographic study. Marí-Beffa M, et al. **Anat Embryol (Berl)** 1989;180(5):465–70

A long-term toxicity test comprising reproduction and growth of zebrafish with 4-chloroaniline. Bresch H, et al. **Arch Environ Contam Toxicol** 1990 May-Jun;19(3):419–27

Effects of elevated foodborne selenium on growth and reproduction of the fathead minnow (Pimephales promelas). Ogle RS, et al. **Arch Environ Contam Toxicol** 1989 Nov;18(6):795–803

Orthovanadate and fluoroaluminate stimulate inositol phosphate production and in vitro ovulation in goldfish (Carassius auratus) follicles. Ranjan M, et al. **Biol Reprod** 1990 Aug;43(2):323–34

Morphological recovery of axotomized goldfish retinal ganglion cells in an environment known to prevent retinotopic refinement of their regenerated tectal arbors. Cook JE. **Brain Res** 1990 Mar 5;510(2):181–9

Effect of optic nerve lesions and intraocular colchicine on cell proliferation in the germinal zone of the optic tectum and in the torus longitudinalis in the goldfish. Davis RE. **Brain Res** 1990 Mar 26;512(1):46–53

Optic nerve crush modulates proliferation of rod precursor cells in the goldfish retina. Henken DB, et al. **Brain Res** 1989 Nov 6;501(2):247–59

The motor output of the Mauthner cell, a reticulospinal command neuron. Nissanov J, et al. **Brain Res** 1990 May 28;517(1-2):88–98

Effect of conditioning lesions on regeneration of goldfish optic axons: time course of the cell body reaction to axotomy. Reich JB, et al. **Brain Res** 1990 May 7; 515(1-2):256–60

Olfactory bulb and sensory epithelium in goldfish: morphological alterations accompanying growth. Stewart JS, et al. **Brain Res Dev Brain Res** 1990 Jul 1;54(2):187–93

The spatiotemporal distribution of N-CAM in the retinotectal pathway of adult goldfish detected by the monoclonal antibody D3. Bastmeyer M, et al. **Development** 1990 Feb;108(2):299–311

Cadmium nephropathy in a freshwater fish, Puntius conchonius Hamilton. Gill TS, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):165–72

Use of a pituitary cell dispersion method and primary culture system for the studies of gonadotropin-releasing hormone action in the goldfish, Carassius auratus. I. Initial morphological, static, and cell column perifusion studies. Chang JP, et al. **Gen Comp Endocrinol** 1990 Feb; 77(2):256–73

Use of a pituitary cell dispersion method and primary culture system for the studies of gonadotropin-releasing hormone action in the goldfish, Carassius auratus. II. Extracellular calcium dependence and dopaminergic inhibition of gonadotropin responses. Chang JP, et al. **Gen Comp Endocrinol** 1990 Feb;77(2):274–82

CRF, urotensin I, and sauvagine stimulate the release of POMC-derived peptides from goldfish neurointermediate lobe cells. Tran TN, et al. **Gen Comp Endocrinol** 1990 Jun; 78(3):351–60

Glial response to axonal injury: in vitro manifestation and implication for regeneration. Sivron T, et al. **GLIA** 1990; 3(4):267–76

Differing behavioral and endocrinological effects of two female sex pheromones on male goldfish. Sorensen PW, et al. **Horm Behav** 1989 Sep;23(3):317–32

In vitro effect of mammalian pituitary hormones on germinal vesicle breakdown in oocytes of major carps, Labeo rohita, Cirrhinus mrigala, Catla catla and Cyprinus carpio. Haider S, et al. **Indian J Exp Biol** 1989 Jul;27(7):653–5

The temporal evolution of masking and frequency selectivity in the goldfish (Carassius auratus). Coombs S, et al. **J Acoust Soc Am** 1989 Sep;86(3):925–33

Gap junction particle density of horizontal cells in goldfish retinas lesioned with 6-OHDA [published erratum appears in J Comp Neurol 1989 Oct 22;288(4):698] Baldridge WH, et al. **J Comp Neurol** 1989 Sep 8;287(2):238–46

Effect of temperature on long-term survival of anucleate giant axons in crayfish and goldfish. Blundon JA, et al. **J Comp Neurol** 1990 Jul 15;297(3):377–91

Evidence for the stability of positional markers in the goldfish tectum. Busse U, et al. **J Comp Neurol** 1989 Oct 22; 288(4):538–54

The temperature dependence of the time course of growth and decay of miniature end-plate currents in carp extraocular muscle following thermal acclimation. Harper AA, et al. **J Exp Biol** 1989 Nov;147:237–48

Nonmammalian vertebrate models in studies of brain-steroid interactions. Callard G, et al. **J Exp Zool Suppl** 1990;4:6–16 (71 ref.)

Synapsin I injected presynaptically into goldfish mauthner axons reduces quantal synaptic transmission. Hackett JT, et al. **J Neurophysiol** 1990 Apr;63(4):701–6

Transmission at a central inhibitory synapse. IV. Quantal structure of synaptic noise. Korn H, et al. **J Neurophysiol** 1990 Jan;63(1):198–222

Morphological and functional aspects of two different types of hair cells in the goldfish sacculus. Sugihara I, et al. **J Neurophysiol** 1989 Dec;62(6):1330–43

Calcium-dependent volume reduction in regenerating ganglion cell axons in vitro. Edmonds BT, et al. **J Neurosci Res** 1990 Jun;26(2):168–80

Decoupling of horizontal cells in carp and turtle retinae by intracellular injection of cyclic AMP. Miyachi E, et al. **J Physiol (Lond)** 1989 Dec;419:213–24

The role of ependymin in the development of long lasting synaptic changes. Shashoua VE. **J Physiol (Paris)** 1988–89; 83(3):232–9

Neural mechanisms of chromatic adaptation in L-type cone horizontal cells of the carp retina. Umino O, et al. **Jpn J Physiol** 1989;39(5):725–42

"Doctor fish" and psoriasis [letter] Undar L, et al. **Lancet** 1990 Feb 24;335(8687):470–1

Melanin concentrating hormone. I. Influence of nerves and hormones on the control of trout melanophores. Green JA, et al. **Life Sci** 1989;45(13):1127–32

Differential actions of dopamine receptor subtypes on gonadotropin and growth hormone release in vitro in goldfish. Chang JP, et al. **Neuroendocrinology** 1990 Jun; 51(6):664–74

Neuropeptide Y stimulates growth hormone and gonadotropin release from the goldfish pituitary in vitro. Peng C, et al. **Neuroendocrinology** 1990 Jul;52(1):28–34

Goldfish retinal axons respond to position-specific properties of tectal cell membranes in vitro. Vielmetter J, et al. **Neuron** 1989 Apr;2(4):1331–9

Terbium simulates the action of calcium on electrophysiological activity in the isolated fish retina. Dakin SR, et al. **Neurosci Lett** 1990 Apr 20;112(1):82–6

Haloperidol suppresses light-induced spinule formation and biphasic responses of horizontal cells in fish (roach) retina. Djamgoz MB, et al. **Neurosci Lett** 1989 Dec 15; 107(1-3):200–4

Quantal transmission at Mauthner axon target synapses in the goldfish brainstem. Hackett JT, et al. **Neuroscience** 1989;32(1):49–64

D-aspartate potentiates the effects of both L-aspartate and L-glutamate on carp horizontal cells. Mangel SC, et al. **Neuroscience** 1989;32(1):19–26

Quantitative electrophysiological studies of regenerating visuotopic maps in goldfish—I. Early recovery of dimming sensitivity in tectum and torus longitudinalis. Northmore DP. **Neuroscience** 1989;32(3):739–47

Quantitative electrophysiological studies of regenerating visuotopic maps in goldfish—II. Delayed recovery of sensitivity to small light flashes. Northmore DP. **Neuroscience** 1989;32(3):749–57

Some observations on the narcotizing ability of electric currents on the common carp Cyprinus carpio. Barham WT, et al. **Onderstepoort J Vet Res** 1989 Sep;56(3):215–8

Brain benzodiazepine receptors in fathead minnows and the behavioral response to alarm pheromone. Rehnberg BG, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):435–42

Day-night rhythms of shoaling behavior in goldfish: opioid and pineal involvement. Kavaliers M. **Physiol Behav** 1989 Aug;46(2):167–72

Telencephalic function implicated in food-reinforced color discrimination learning in the goldfish. Ohnishi K. **Physiol Behav** 1989 Oct;46(4):707–12

Requirement of extracellular calcium in gonadotropin releasing hormone action. Bhattacharya S, et al. **Prog Clin Biol Res** 1990;342:572–7

Aromatization and estrogen action in brain. Callard G, et al. **Prog Clin Biol Res** 1990;342:105–11 (23 ref.)

Actions of gonadotropin-releasing hormone (GnRH) in the goldfish. Peter RE, et al. **Prog Clin Biol Res** 1990;342:393–8 (21 ref.)

The spectral transmission of the lens and cornea of the brown trout (Salmo trutta) and goldfish (Carassius auratus)—effect of age and implications for ultraviolet vision. Douglas RH. **Vision Res** 1989;29(7):861–9

Interaction between the soma and the axon terminal of horizontal cells in carp retina. Kamermans M, et al. **Vision Res** 1990;30(7):1011–6

Intracellular cesium separates two glutamate conductances in retinal bipolar cells of goldfish. Nawy S, et al. **Vision Res** 1990;30(7):967–72

Electroretinographic b-wave merely reflects the activity of the rod system in the dark-adapted carp retina. Yang XL, et al. **Vision Res** 1990;30(7):993–9

CYPRINIFORMES

[Evaluation of excised loach skin for studies on transdermal permeation of drugs in vitro] Watanabe Y, et al. **Yakugaku Zasshi** 1989 Sep;109(9):656–61 (Eng. Abstr.) **(Jpn)**

EMBRYOLOGY

Phalloidin inhibits cortical granule exocytosis and ooplasmic segregation in loach eggs. Ivanenkov VV, et al. **Cell Differ Dev** 1990 Jan;29(1):21–35

[The effect of low-molecular weight nuclear RNA on the cell cycle during asynchronous embryonic fission] Burakova TA, et al. **Dokl Akad Nauk SSSR** 1989 Sep–Oct; 308(1):197–200 **(Rus)**

[Detection of protease-sensitive factors with properties of beta-type transforming growth factor in early loach embryos] Fedishin IaIa, et al. **Ontogenez** 1990 Jan–Feb; 21(1):63–8 (Eng. Abstr.) **(Rus)**

GENETICS

Multiple sex-chromosome system in a loach fish. Saitoh K. **Cytogenet Cell Genet** 1989;52(1–2):62–4

Two isotocin genes are present in the white sucker Catostomus commersoni both lacking introns in their protein coding regions. Figueroa J, et al. **EMBO J** 1989 Oct;8(10):2873–7

The 5'-flanking sequence of the loach oocyte 5S rRNA gene contains a signal for effective transcription. Felgenhauer P, et al. **Gene** 1990 Jun 15;90(2):243–8

[Intragenomic polymorphism of the primary structure of 5S rRNA gene variants of the loach (Misgurnus fossilis L.). Determination of the transcriptional activity] Sedman IuE, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1295–308 (Eng. Abstr.) **(Rus)**

METABOLISM

The role of glutathione S-transferases in the hepatic metabolism of benzo[a]pyrene in white suckers (Catostomus commersoni) from polluted and reference sites in the Great Lakes. Kirby GM, et al. **Comp Biochem Physiol [C]** 1990; 95(1):25–30

A mathematical model for cadmium in the stone loach (Noemacheilus barbatulus L.) from the River Ecclesbourne, Derbyshire. Douben PE. **Ecotoxicol Environ Safety** 1990 Apr;19(2):160–83

[Sigma receptors of the loach embryo regulate ornithine decarboxylase activity] Kaliuzhnyĭ AE, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):97–8 (Eng. Abstr.) **(Rus)**

[The relative content of oocyte and somatic 5S rRNA at different stages of embryonic development as an index of the replacement of maternal ribosomes by ribosomes of the embryo in the loach] Luchina NN, et al. **Ontogenez** 1990 May–Jun;21(3):261–6 (Eng. Abstr.) **(Rus)**

CYPRINODONTID see CYPRINODONTIFORMES

CYPRINODONTIFORMES

Acute toxicity of cadmium, copper, zinc, ammonia, 3,3'-dichlorobenzidine, 2,6-dichloro-4-nitroaniline, methylene chloride, and 2,4,6-trichlorophenol to juvenile grass shrimp and killifish. Burton DT, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):776–83

Cytotoxicity phase of diethylnitrosamine-induced hepatic neoplasia in medaka. Laurén DJ, et al. **Cancer Res** 1990 Sep 1;50(17):5504–14

Hepatic neoplasms in the mummichog Fundulus heteroclitus from a creosote-contaminated site. Vogelbein WK, et al. **Cancer Res** 1990 Sep 15;50(18):5978–86

Mosquito control in wastewater: a controlled and quantitative comparison of pupfish (Cyprinodon nevadensis amargosae), mosquitofish (Gambusia affinis) and guppies (Poecilia reticulata) in Sago pondweed marshes. Castleberry DT, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):223–8

Larvivorous fishes in controlling mosquito breeding from draw wells. Joshi RD, et al. **J Commun Dis** 1989 Dec; 21(4):354–9

Life-span studies on spontaneous tumor development in the medaka (Oryzias latipes). Masahito P, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1058–65

[Attempts at analyzing the initiation of the initial processes of carcinogenesis based on the Xiphophorus melanoma model] Anders A, et al. **Arch Geschwulstforsch** 1990; 60(4):249–63 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Ultrastructural study of the cellular types in the pineal organ of Gambusia affinis (teleost). Gonzalez RM, et al. **Am J Anat** 1990 Jul;188(3):260–8

The development of hyaline-cell cartilage in the head of the black molly, Poecilia sphenops. Evidence for secondary cartilage in a teleost. Benjamin M. **J Anat** 1989 Jun; 164:145–54

BLOOD

Estimation of nuclear DNA content by flow cytometry in fishes of the genus Xiphophorus. Tiersch TR, et al. **Comp Biochem Physiol [B]** 1989;94(3):465–8

EMBRYOLOGY

The stellate layer and rhythmic contractions of the Oryzias latipes embryo. Cope J, et al. **J Exp Zool** 1990 Jun; 254(3):270–5

GENETICS

Assignment of six enzyme loci to multipoint linkage groups in fishes of the genus Poeciliopsis (Poeciliidae): designation of linkage groups III–V. Morizot DC, et al. **Biochem Genet** 1990 Feb;28(1–2):83–95

Electroporation as a new technique for producing transgenic fish. Inoue K, et al. **Cell Differ Dev** 1990 Feb;29(2):123–8

Cytogenetics of bisexual/unisexual species of Poecilia. I. C-bands, Ag-NOR polymorphisms, and sex chromosomes in three populations of Poecilia latipinna. Sola L, et al. **Cytogenet Cell Genet** 1990;53(2–3):148–54

Search for genes critical for the early and/or late events in carcinogenesis: studies in Xiphophorus (Pisces, Teleostei). Zechel C, et al. **Hamatol Bluttransfus** 1989;32:366–85 (66 ref.)

Detection of a null allele for MDH isozymes in the guppy (Poecilia reticulata), with special reference to sex-linked inheritance. Fujio Y, et al. **Idengaku Zasshi** 1989 Oct; 64(5):347–54

Inheritance of the snakeskin color pattern in the guppy, Poecilia reticulata. Phang VP, et al. **J Hered** 1989 Sep–Oct; 80(5):393–9

Lactate dehydrogenase-B cDNA from the teleost Fundulus heteroclitus: evolutionary implications. Crawford DL, et al. **Mol Biol Evol** 1989 Jul;6(4):369–83

Transient expression directed by homologous and heterologous promoter and enhancer sequences in fish cells. Friedenreich H, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3299–305

Spatial imaging of luciferase gene expression in transgenic fish. Tamiya E, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):1072

v-erbB related sequences in Xiphophorus that map to melanoma determining Mendelian loci and overexpress in a melanoma cell line. Zechel C, et al. **Oncogene** 1988 Nov; 3(5):605–17

Molecular basis of evolutionary adaptation at the lactate dehydrogenase-B locus in the fish Fundulus heteroclitus. Crawford DL, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9365–9

GROWTH & DEVELOPMENT

Size-dependence of mercury (II) accumulation kinetics in the mosquitofish, Gambusia affinis (Baird and Girard). Newman MC, et al. **Arch Environ Contam Toxicol** 1989 Nov;18(6):819–25

IMMUNOLOGY

Oncofetal antigen in Xiphophorus detected by monoclonal antibodies directed against melanoma-associated antigens. Clauss G, et al. **Int J Cancer** 1990 Jan 15;45(1):136–42

METABOLISM

Effects of elevated calcium concentration on Na-K-ATPase activity of two euryhaline species, Cyprinodon variegatus and Mysidopsis bahia. Price EE, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):121–8

Characterization of two Ca-ATPases in gill epithelium from the killifish (Fundulus heteroclitus). Paul MJ, et al. **Comp Biochem Physiol [B]** 1989;93(4):889–97

Effect of dichlorvos on haemocyte morphology in the male and female P. pictus. Shukla K, et al. **Folia Morphol (Praha)** 1989;37(2):142–7

Steroidogenesis in Fundulus heteroclitus. II. Production of 17 alpha-hydroxy-20 beta-dihydroprogesterone, testosterone, and 17 beta-estradiol by various components of the ovarian follicle. Petrino TR, et al. **Gen Comp Endocrinol** 1989 Nov;76(2):230–40

Steroid hormone profile during gestation and parturition of the guppy (Poecilia reticulata). Venkatesh B, et al. **Gen Comp Endocrinol** 1990 Mar;77(3):476–83

'Neurosecretion' by synaptic terminals and glandular discharge in the endocrine pancreas. Application of tannic acid to the teleost Xiphophorus helleri. Golding DW, et al. **Neuroendocrinology** 1990 Apr;51(4):369–75

Levels of fenitrothion in Oryzias eggs and the effects on hatchability. Hiraoka Y. **Nippon Eiseigaku Zasshi** 1989 Dec; 44(5):987–92

The visual pigment basis for cone polymorphism in the guppy, Poecilia reticulata. Archer SN, et al. **Vision Res** 1990;30(2):225–33

PHYSIOLOGY

Morphological and behavioral characters in mosquitofish as potential bioindication of exposure to kraft mill effluent. Bortone SA, et al. **Bull Environ Contam Toxicol** 1989 Sep; 43(3):370–7

Laboratory induction of intersexuality in the mosquitofish, Gambusia affinis, using paper mill effluent. Drysdale DT, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):611–7

Toxicity of fenitrothion degradation products to medaka (Oryzias latipes). Hiraoka Y, et al. **Bull Environ Contam Toxicol** 1990 Feb;44(2):210–5

Acute toxicity of temephos, fenoxycarb, diflubenzuron, and methoprene and bacillus thuringiensis var. israelensis to the mummichog (Fundulus heteroclitus). Lee BM, et al. **Bull Environ Contam Toxicol** 1989 Dec;43(6):827–32

Prey selection by mosquitofish (Gambusia affinis) in California rice fields: effect of vegetation and prey species. Linden AL, et al. **J Am Mosq Control Assoc** 1990 Mar; 6(1):115–20

Oogenesis in Fundulus heteroclitus. VI. Establishment and verification of conditions for vitellogenin incorporation by oocytes in vitro. Kanungo J, et al. **J Exp Zool** 1990 Jun; 254(3):313–21

Membrane formations in the pineal cells of the teleost Gambusia affinis. Gonzalez RM, et al. **J Pineal Res** 1989; 7(4):325–32

CYPROHEPTADINE

Conformational analysis of cyproheptadine hydrochloride. Sadek M, et al. **J Med Chem** 1990 Apr;33(4):1098–107

ADMINISTRATION & DOSAGE

The combination therapy with bromocriptine and cyproheptadine in patients with acromegaly. Hanew K, et al. **Endocrinol Jpn** 1989 Jun;36(3):429–38

ANALOGS & DERIVATIVES

Efficacy and safety of loratadine suspension in the treatment of children with allergic rhinitis. Boner AL, et al. **Allergy** 1989 Aug;44(6):437–41

Effect of a non-sedative antihistaminic (loratadine) in moderate asthma. A double-blind controlled clinical crossover-trial. Dirksen A, et al. **Allergy** 1989 Nov; 44(8):566–71

A multicentre study of loratadine, clemastine and placebo in patients with perennial allergic rhinitis. Frølund L, et al. **Allergy** 1990 May;45(4):254–61

Blood flow in histamine- and allergen-induced weal and flare responses, effects of an H1 antagonist, alpha-adrenoceptor agonist and a topical glucocorticoid. Hammarlund A, et al. **Allergy** 1990 Jan;45(1):64–70

Treatment of hay fever with loratadine—a new non-sedating antihistamine. Irander K, et al. **Allergy** 1990 Feb; 45(2):86–91

Comparative effects of loratadine and terfenadine in the treatment of chronic idiopathic urticaria. Belaich S, et al. **Ann Allergy** 1990 Feb;64(2 Pt 2):191–4

The effectiveness of the nonsedating antihistamine loratadine plus pseudoephedrine in the symptomatic management of the common cold. Berkowitz RB, et al. **Ann Allergy** 1989 Oct;63(4):336–9

Loratadine-pseudoephedrine combination versus placebo in patients with seasonal allergic rhinitis. Grossman J, et al. **Ann Allergy** 1989 Oct;63(4):317–21

Compared peripheral H1 inhibiting effects of cetirizine 2 HCl and loratadine. Rihoux JP, et al. **Ann Allergy** 1990 Aug; 65(2):139–42

Loratadine, a non-sedating H1-receptor antagonist (antihistamine) [editorial] Simons FE. **Ann Allergy** 1989 Oct;63(4):266–8

Effects of azatadine, terfenadine, and astemizole on allergen-induced nasal provocation. Small P, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):129–31

Selective inhibition of peripheral histamine responses by loratadine and terfenadine. Mauser PJ, et al. **Eur J Pharmacol** 1990 Jun 21;182(1):125–9

Lack of subsensitivity to loratadine during long-term dosing during 12 weeks. Bousquet J, et al. **J Allergy Clin Immunol** 1990 Aug;86(2):248–53

Efficacy and safety of loratadine (10 mg once daily), terfenadine (60 mg twice daily), and placebo in the treatment of seasonal allergic rhinitis. Del Carpio J, et al. **J Allergy Clin Immunol** 1989 Nov;84(5 Pt 1):741–6

Pharmacokinetics of loratadine in patients with renal insufficiency. Matzke GR, et al. **J Clin Pharmacol** 1990 Apr;30(4):364–71

[Loratadine and dexchlorpheniramine in the treatment of perennial allergic rhinitis in pediatric patients] Longo G, et al. **Minerva Pediatr** 1990 May;42(5):179–83 (Eng. Abstr.) **(Ita)**

PHARMACOLOGY

Amphetamine stereotypy in cats and neurotransmitter interactions in the caudate nucleus. III. Effects of intracaudate injections of quipazine, cyproheptadine and electrical stimulation of the raphe dorsal nucleus. Moyanova SG, et al. **Acta Physiol Pharmacol Bulg** 1989; 15(3):43–9

Cyproheptadine-induced alterations in clonal insulin-producing cell lines. Miller CP, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1983–90

Cyproheptadine displays high affinity for muscarinic receptors but does not discriminate between receptor subtypes. Eltze M, et al. **Eur J Pharmacol** 1989 Dec 7; 173(2–3):219–22

A comparative study of cyproheptadine and DL carnitine on psychomotor performance and memory in healthy volunteers. Hakkou F, et al. **Fundam Clin Pharmacol** 1990; 4(2):191–200

The effect of cyproheptadine on plasma growth hormone (GH) and on somatostatin response to GH-releasing hormone in man. Rosskamp RH, et al. **Horm Metab Res** 1990 May;22(5):295–7

Investigation of influence of diazepam, valproate, cyproheptadine and cortisol on the rewarding ventral tegmental self-stimulation behaviour. Ramana SV, et al. **Indian J Physiol Pharmacol** 1989 Jul–Sep;33(3):179–85

Desipramine or cyproheptadine for reversing chloroquine

resistance? [letter; comment] [see comments] Basco LK, et al. **Lancet** 1990 Feb 17;335(8686):422 Comment on: Lancet 1989 Nov 25;2(8674):1282–3. Comment in: Lancet 1990 May 12;335(8698):1155.

Desipramine and cyproheptadine for reversal of chloroquine resistance in Plasmodium falciparum [letter; comment] [see comments] Bitonti AJ, et al. **Lancet** 1989 Nov 25; 2(8674):1282–3 Comment on: Lancet 1989 Aug 5;2(8658):334–5. Comment in: Lancet 1990 Feb 17;335(8686):422.

Reduction of negative alliesthesia for sweet gustatory stimuli by cyproheptadine, a serotonin antagonist. Fantino M, et al. **Life Sci** 1990;46(19):1381–7

Inhibition of male sexual behavior by serotonin application in the medial preoptic area. Verma S, et al. **Physiol Behav** 1989 Aug;46(2):327–30

[Effect of peritol on gastric secretory function] Shevchuk IM, et al. **Vrach Delo** 1989 Aug;(8):66–8 (Eng. Abstr.) **(Rus)**

POISONING

Acute cyproheptadine poisoning. Vikram Kumar V, et al. **Indian J Pediatr** 1989 Jul–Aug;56(4):521–3 (12 ref.)

THERAPEUTIC USE

Nocturnal rhythm of growth hormone in Duchenne patients: effect of different doses of mazindol and/or cyproheptadine. Zatz M, et al. **Am J Med Genet** 1989 Aug; 33(4):457–67

Partial remission of carcinoid tumor in response to cyproheptadine. Leitner SP, et al. **Ann Intern Med** 1989 Nov 1;111(9):760–1

Prevention of high altitude–induced testicular disturbances by previous treatment with cyproheptadine in male rats. Gonzales GF, et al. **Arch Androl** 1990;24(2):201–5

Differential response to aminergic stimuli and biological behavior of growth hormone secreting pituitary adenomas. Fanghanel G, et al. **Can J Neurol Sci** 1990 Feb;17(1):78–82

A controlled trial of cyproheptadine in cancer patients with anorexia and/or cachexia. Kardinal CG, et al. **Cancer** 1990 Jun 15;65(12):2657–62

Failure of long–term cyproheptadine therapy in lowering growth hormone levels in acromegaly. Dash RJ, et al. **Clin Endocrinol (Oxf)** 1989 Jun;30(6):639–44

The effect of cyproheptadine and/or bromocriptine on plasma ACTH levels in patients cured of Cushing's disease by bilateral adrenalectomy. Whitehead HM, et al. **Clin Endocrinol (Oxf)** 1990 Feb;32(2):193–201

Field study of cyproheptadine/chloroquine synergism in falciparum malaria [letter] Björkman A, et al. **Lancet** 1990 Jul 7;336(8706):59–60

Treatment of benign essential blepharospasm with cyproheptadine [letter] Fasanella RM, et al. **N Engl J Med** 1990 Mar 15;322(11):778

[Anti–inflammatory effect of cyproheptadine] Tan JQ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):357–9 (Eng. Abstr.) **(Chi)**

CYPROTERONE

ADVERSE EFFECTS

Hereditary angioedema and oral contraception [letter] Borradori L, et al. **Dermatologica** 1990;181(1):78–9

Severe hepatitis caused by cyproterone acetate. Blake JC, et al. **Gut** 1990 May;31(5):556–7

ANALOGS & DERIVATIVES

Effects of combined hypophysectomy and cyproterone acetate on the adrenal chromaffin cells of the rat. Evidence for postnatal migration of adrenal chromaffin cells. Bustami F. **Acta Morphol Neerl Scand** 1988–89;26(4):207–23

Effects of ethinyl estradiol combined with desogestrel and cyproterone acetate on glucose tolerance and insulin response to an oral glucose load: a one–year randomized, prospective, comparative trial. Jandrain BJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):378–81

Recurrent angioedema associated with hypogonadism or anti–androgen therapy. Pichler WJ, et al. **Ann Allergy** 1989 Oct;63(4):301–5

Manipulation of the growth rate of human breast cancer cells by antiandrogen followed by chemotherapy. Alama A, et al. **Anticancer Res** 1990 May–Jun;10(3):853–8

Induction by cyproterone acetate of DNA synthesis and mitosis in primary cultures of adult rat hepatocytes in serum free medium. Parzefall W, et al. **Arch Toxicol** 1989; 63(6):456–61

Pituitary adrenal and gonadal endocrine suppression for the primary treatment of prostate cancer. Williams G, et al. **Br J Urol** 1990 May;65(5):504–8

Induction of dorsolateral prostate adenocarcinomas and other accessory sex gland lesions in male Wistar rats by a single administration of N–methyl–N–nitrosourea, 7,12–dimethylbenz(a)anthracene, and 3,2'–dimethyl–4–aminobiphenyl after sequential treatment with cyproterone acetate and testosterone propionate. Bosland MC, et al. **Cancer Res** 1990 Feb 1;50(3):691–9

Advanced prostatic cancer: clinical and hormonal response to flutamide in patients pretreated with LHRH analogue and cyproterone acetate. Di Silverio F, et al. **Eur Urol** 1990;18(1):10–5

Monthly cyproterone acetate in the treatment of hirsute women: clinical and laboratory effects. Marcondes JA, et al. **Fertil Steril** 1990 Jan;53(1):40–4

Metabolic effect at six and twelve months of cyproterone acetate (2 mg) combined with ethinyl estradiol (35 micrograms) in 31 patients. Vexiau P, et al. **Horm Metab Res** 1990 Apr;22(4):241–5

Effect of cyproterone acetate on testis of albino rats: ultrastructural and biochemical approach. Bhiwgade DA, et al. **Indian J Exp Biol** 1990 Mar;28(3):201–7

The effect of cross–gender hormonal treatment on bone metabolism in male–to–female transsexuals. Lips P, et al. **J Bone Miner Res** 1989 Oct;4(5):657–62

Sexual dimorphism of blood pressure in spontaneously hypertensive rats: effects of anti–androgen treatment. Ganten U, et al. **J Hypertens** 1989 Sep;7(9):7..1–6

Serum protein binding characteristics of cyproterone acetate, gestodene, levonorgestrel and norethisterone in rat, rabbit, dog, monkey and man. Li QG, et al. **J Steroid Biochem** 1990 Feb;35(2):319–26

Testosterone–estradiol binding globulin (TeBG) in hirsute patients treated with cyproterone acetate (CPA) and percutaneous estradiol. Vincens M, et al. **J Steroid Biochem** 1989 Oct;33(4A):531–4

Re: The combination of cyproterone acetate and low dose diethylstilbestrol in the treatment of advanced prostatic carcinoma [letter] Varenhorst E, et al. **J Urol** 1989 Nov; 142(5):1335–6

Deep venous thrombosis and antibodies to cyproterone acetate [letter] Leroy O, et al. **Lancet** 1990 Aug 25; 336(8713):509

[Differential use of cyproterone acetate in androgen manifestations in the female] Kaiser E. **Arch Gynecol Obstet** 1989;245(1–4):985–6 **(Ger)**

[Therapy of hirsutism in females with adrenal enzyme defects of steroid hormone biosynthesis: comparison of dexamethasone with cyproterone acetate] Frank–Raue K, et al. **Klin Wochenschr** 1990 Jun 19;68(12):597–601 (Eng. Abstr.) **(Ger)**

[Male transsexualism and hormonal therapy: radiologic pictures of the breast] Godano A, et al. **Arch Ital Urol Nefrol Androl** 1990 Mar;62(1):107–11 (Eng. Abstr.) **(Ita)**

[Cyproterone acetate in benign prostatic hypertrophy] Cocimano V, et al. **Minerva Urol Nefrol** 1989 Oct–Dec; 41(4):275–6 (Eng. Abstr.) **(Ita)**

[A clinical study of congenital adrenal hyperplasia] Nanbu A, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1831–7 (Eng. Abstr.) **(Jpn)**

[Effect of cyproterone acetate on aromatase activity in cultured human genital skin fibroblasts: intracellular control of aromatase activity] Fujimoto M. **Nippon Naibunpi Gakkai Zasshi** 1989 Jun 20;65(6):585–602 (Eng. Abstr.) **(Jpn)**

[Assessment of the effectiveness of Androcur in the treatment of precocious puberty] Semicheva TV. **Pediatriia** 1989; (11):49–53 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Ovulation inhibitors containing cyproterone acetate or desogestrel in the treatment of hyperandrogenic symptoms. Erikkola R, et al. **Acta Obstet Gynecol Scand** 1990; 69(1):61–5

Prevention by cyproterone acetate of androgenic, but not of gonadotrophic, elicitation of persistent estrus in rats. Wollman AL, et al. **Endocrinology** 1967 Aug;81(2):350–6

Comparative study on the effect of Diane and Microgynon 50 contraceptive on the haemostatic mechanisms in Chinese subjects. Koh SC, et al. **Singapore Med J** 1990 Apr; 31(2):116–22

THERAPEUTIC USE

The effect of cyproterone acetate on hair roots and hair shaft diameter in androgenetic alopecia in females. Peereboom–Wynia JD, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):395–8

Effects of a low–dose estrogen–antiandrogen combination (Diane–35) on clinical signs of androgenization, hormone profile and ovarian size in patients with polycystic ovary syndrome. Prelević GM, et al. **Gynecol Endocrinol** 1989 Dec;3(4):269–80

Cyproterone acetate versus hydrocortisone treatment in late–onset adrenal hyperplasia. Spritzer P, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):642–6

TOXICITY

Effects of androgen manipulations on chemically induced colonic tumours and on macroscopically normal colonic mucosa in male Sprague–Dawley rats. Izbicki JR, et al. **Br J Cancer** 1990 Feb;61(2):235–40

CYSTADENOCARCINOMA

Brain metastases in epithelial ovarian carcinoma; two case reports. Piura B, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Jul–Aug; 36(1–2):203–8 (11 ref.)

ANALYSIS

[Quantitative DNA analysis in epithelial ovarian cancer] Xu Y, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1989 May; 24(3):156–8, 189 (Eng. Abstr.) **(Chi)**

[Mucin histochemical and immunohistochemical studies of mucinous ovarian tumors] Shi ZL. **Chung–hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):201–3 (Eng. Abstr.) **(Chi)**

[Comparative study on human chorionic gonadotropin receptor in normal human ovary with ovarian tumors] Chen ML, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):369–72 (Eng. Abstr.) **(Chi)**

BLOOD

Hyperamylasemia with papillary serous cystadenocarcinoma of the ovary. Schlikker I, et al. **Acta Clin Belg** 1989; 44(4):255–8

CLASSIFICATION

[A clinicopathological study of mucus producing bile duct carcinoma] Nagino M, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):695–704 (39 ref.) (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Papillary cystadenocarcinoma of the bile ducts resulting in hemobilia. Alapati R, et al. **Am J Gastroenterol** 1989 Dec; 84(12):1564–6 (16 ref.)

Sigmoid colon fistula complicating ovarian cystadenocarcinoma: a rare finding. Honda H, et al. **Gastrointest Radiol** 1990 Winter;15(1):78–81

[Hyperpigmentation of the Laugier–Hunziker–syndrome type appearing during antineoplastic polychemotherapy] Dal Tio R, et al. **G Ital Dermatol Venereol** 1989 Mar; 124(3):77–83 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Primary paraovarian cystadenocarcinoma: clinical and management aspects and literature review. Altaras MM, et al. **Gynecol Oncol** 1990 Aug;38(2):268–72 (20 ref.)

Two cases of pancreatic cystadenocarcinoma with elevated CA 19–9 levels in the cystic fluid in comparison with two cases of pancreatic cystadenoma. Nishida K, et al. **Hepatogastroenterology** 1989 Dec;36(6):442–5

Intrahepatic bile duct cystadenocarcinoma: case report and imaging diagnosis. Boillot O, et al. **J Surg Oncol** 1990 Mar; 43(3):193–5

Cystic neoplasms of the pancreas. Doberstein C, et al. **Mt Sinai J Med** 1990 Mar;57(2):102–5

Pelvic papillary neoplasia along the round ligament simulating inguinal hernia. Peison B, et al. **N J Med** 1990 Aug;87(8):648–50

[Distribution and diagnostic role of COTA in mucinous ovarian tumors] Shi ZL. **Chung Hua Chung Liu Tsa Chih** 1989 May;11(3):191–2 (Eng. Abstr.) **(Chi)**

[Serous cystadenoma and mucinous cystadenoma/cystadenocarcinoma of the pancreas. Clinical manifestation, diagnostic procedure and therapeutic concept] Löser C, et al. **Leber Magen Darm** 1990 Jul; 20(4):173–4, 177–9 (28 ref.) (Eng. Abstr.) **(Ger)**

[Ovarian cancer and pregnancy. Description of a clinical case] Segre A, et al. **Minerva Ginecol** 1990 Apr;42(4):153–6 (Eng. Abstr.) **(Ita)**

[A case of mucinous cystadenocarcinoma of the gallbladder] Nakagawa M, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar; 91(3):434–7 (Eng. Abstr.) **(Jpn)**

[Echographic study of cystadenoma and cystadenocarcinoma of the pancreas] Cerri GG, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Sep–Oct; 44(5):244–8 (Eng. Abstr.) **(Por)**

[Presentation of 6 cases of cystadenocarcinoma of the pancreas] Bernal Sprekelsen JC, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):47–50 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Histologic changes induced by intraperitoneal chemotherapy with 5–fluorouracil and mitomycin C in patients with peritoneal carcinomatosis from cystadenocarcinoma of the colon or appendix. Sugarbaker PH, et al. **Cancer** 1990 Apr 1;65(7):1495–501

New cisplatin schedule in combination with aclarubicin (ACR) with high response rate in recurrent gynecological adenocarcinomas. Chen JT, et al. **Gynecol Oncol** 1990 Jul; 38(1):1–5

Bowel perforation associated with intraperitoneal chromic phosphate instillation. Proctor J, et al. **Gynecol Oncol** 1990 Jan;36(1):125–7

Possible mechanisms of resistance to cis–diamminedichloroplatinum (II) of human ovarian cancer cells. Kikuchi Y, et al. **Jpn J Cancer Res** 1990 Jun–Jul;81(6–7):701–6

Cis–platinum combination chemotherapy during pregnancy for advanced epithelial ovarian carcinoma. Malfetano JH, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):545–7

[CDDP–ACR treatment in patients with recurrent ovarian cancer with prior chemotherapy containing CDDP—a preliminary study of a 14–day continuous infusion of CDDP with ACR] Chen JT, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Oct; 41(10):1565–70 (Eng. Abstr.) **(Jpn)**

[Therapeutic values of prostaglandin D2 in nude mice bearing

human ovarian carcinoma] Kikuchi Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Feb;42(2):121–8 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Placental-like alkaline phosphatase from ovary and ascites of a patient with a malignant ovarian tumour. Koyama I, et al. **Clin Chim Acta** 1990 Jan 15;186(2):295–9

Immunolocalization of alpha-amylase in ovarian mucinous tumours. Griffin NR, et al. **Int J Gynecol Pathol** 1990; 9(1):41–6

ETIOLOGY

Limitations of database searching [letter] Khan AJ. **Ophthalmology** 1990 Aug;97(8):961

Pancreatic cystadenocarcinoma and pregnancy: a case report. Baiocchi C, et al. **Tumori** 1990 Jun 30;76(3):294–5

GENETICS

Serous papillary adenocarcinoma of the endometrium. Analysis of proto-oncogene amplification, flow cytometry, estrogen and progesterone receptors, and immunohistochemistry. Sasano H, et al. **Cancer** 1990 Apr 1;65(7):1545–51

Protooncogene amplification and tumor ploidy in human ovarian neoplasms. Sasano H, et al. **Hum Pathol** 1990 Apr; 21(4):382–91

IMMUNOLOGY

Immunohistochemical and ultrastructural localization of T antigen in ovarian tumors. Ghazizadeh M, et al. **Am J Clin Pathol** 1990 Mar;93(3):315–21

Expression of "myelomonocytic" antigens in mesotheliomas and adenocarcinomas involving the serosal surfaces. Wick MR, et al. **Am J Clin Pathol** 1990 Jul;94(1):18–26

Six new monoclonal antibodies to serous, mucinous, and poorly differentiated ovarian adenocarcinomas. Mettler L, et al. **Cancer** 1990 Apr 1;65(7):1525–32

Use of CA 125 monoclonal antibody to monitor patients with ovarian cancer. Kudlacek S, et al. **Gynecol Oncol** 1989 Dec; 35(3):323–9

METABOLISM

Role of plasmin in the degradation of the stroma-derived fibrin in human ovarian carcinoma. Wilhelm O, et al. **Blood** 1990 Apr 15;75(8):1673–8

Behaviour of some steroids in postmenopausal women with coelomic ovarian tumors. Pelusi G, et al. **Eur J Gynaecol Oncol** 1983;4(3):224–8

MORTALITY

[Prognostic factors in epithelial ovarian cancers—clinical significance of morphologic indicators] Gu MJ. **Chung Hua Chung Liu Tsa Chih** 1989 Nov;11(6):437–40 (Eng. Abstr.) **(Chi)**

PATHOLOGY

Nonmucinous, glycogen-poor cystadenocarcinoma of the pancreas. Friedman HD. **Arch Pathol Lab Med** 1990 Aug; 114(8):888–91

Parovarian cystadenocarcinoma: a case report. Kaur K, et al. **Asia Oceania J Obstet Gynaecol** 1990 Jun;16(2):131–5

Complete remission of brain metastases of ovarian cancer following high-dose carboplatin: a case report and pharmacokinetic study. Vlasveld LT, et al. **Cancer Chemother Pharmacol** 1990;25(5):382–3

Papillary cystadenocarcinoma of the epididymis—report of a case. Wang TY, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Feb;45(2):139–42

Mucinous cystadenocarcinoma of the pancreas: diagnosis by fine-needle aspiration cytology. Gupta RK, et al. **Diagn Cytopathol** 1989;5(4):408–11

Histologic sampling requirements in ovarian carcinoma: a review of 51 tumors. Gramlich T, et al. **Gynecol Oncol** 1990 Aug;38(2):249–56

Interactive morphometry of normal and hyperplastic peritoneal mesothelial cells and dysplastic and malignant ovarian cells. Deligdisch L, et al. **Hum Pathol** 1990 Feb; 21(2):218–22

Establishment and characterization of two new human ovarian cancer cell lines UWOV1 and UWOV2 and a subline UWOV2 (Sf) growing in serum-free conditions: growth characteristics, biochemical, and cytogenetic studies. Golombick T, et al. **In Vitro Cell Dev Biol** 1990 May;26(5):447–54

Ultrasound diagnosis of a solitary gastric metastasis. De Wilde V, et al. **JCU** 1989 Nov–Dec;17(9):678–81

A case of ovarian cystadenocarcinoma associated with pregnancy. Sawada M, et al. **Jpn J Clin Oncol** 1990 Jun; 20(2):199–203 (22 ref.)

Osteoclast-like giant cell tumor of the pancreas associated with cystadenocarcinoma. Aoki Y, et al. **Nippon Geka Hokan** 1989 Sep 1;58(5):452–60 (25 ref.)

Establishment and characterization of a new human cell-line (AMOC-2) derived from a serous adenocarcinoma of ovary. Yabushita H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Jul;41(7):888–94

Establishment and characterization of a human ovarian serous cystadenocarcinoma cell line that produces the tumor markers CA-125 and tissue polypeptide antigen. Imai S, et al. **Oncology** 1990;47(2):177–84

Cystic tumors of the pancreas. Albores-Saavedra J, et al. **Pathol Annu** 1990;25 Pt 2:19–50 (68 ref.)

Papillary cystadenocarcinoma of the appendiceal stump with mucocele and peritoneal metastases. Yeong ML, et al. **Pathology** 1989 Apr;21(2):131–3

[Establishment and characterization of a human ovarian adenocarcinoma cell line OC-8611] Huang JS. **Chung Hua Chung Liu Tsa Chih** 1989 Nov;11(6):416–8 (Eng. Abstr.) **(Chi)**

[Papillary cystadenocarcinoma of the submaxillary gland. A rare diagnosis] Attar A, et al. **Rev Stomatol Chir Maxillofac** 1989;90(5):330–3 (Eng. Abstr.) **(Fre)**

[Serous, papillary cystadenocarcinoma (borderline type) of the retroperitoneum] Rothacker D. **Pathologe** 1990 Jul; 11(4):251–3 **(Ger)**

[A case of retroperitoneal mucinous cystadenocarcinoma] Chida T, et al. **Gan No Rinsho** 1990 Feb;36(2):205–10 (Eng. Abstr.) **(Jpn)**

[An autopsy case of extramural malignant leiomyoblastoma of the stomach with ovarian cancer: an immunohistochemical study] Gotoh A, et al. **Gan No Rinsho** 1990 Jun;36(7):857–61 (Eng. Abstr.) **(Jpn)**

[Effects of anticancer agents on 7, 12-dimethylbenz (a) anthracene induced rat ovarian cancer cell line (DMBA-OC-1) and human ovarian serous adenocarcinoma cell line (KOC-1S)] Kataoka A, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Oct; 41(10):1523–9 (Eng. Abstr.) **(Jpn)**

[Mucinous cystadenoma of ileocecal appendix] Lesaga Llopis J, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 2):681–3 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Ascitic fluid from human ovarian cancer patients contains growth factors necessary for intraperitoneal growth of human ovarian adenocarcinoma cells. Mills GB, et al. **J Clin Invest** 1990 Sep;86(3):851–5

SECONDARY

Serous adenocarcinoma of the uterus metastatic to the urinary bladder mimicking primary bladder neoplasia. A report of a case. Young RH, et al. **Am J Surg Pathol** 1990 Sep; 14(9):877–80

Ovarian carcinoma metastatic to breast: a case report and review of the literature. Loredo DS, et al. **Gynecol Oncol** 1990 Jun;37(3):432–6 (18 ref.)

The consequences of unsuspected secondary ovarian neoplasia: a clinical presentation of four case histories. Roley KM, et al. **Gynecol Oncol** 1990 Feb;36(2):277–80

[Omental metastasis in primary ovarian cancer] Shi YF, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1990 Mar;25(2):70–2, 123 (Eng. Abstr.) **(Chi)**

[A calcified tumor in the mesenterium. Ovarian carcinoma with a calcified metastasis in the abdominal wall ("omental cake"), histologically cystadenocarcinoma] Rieber A, et al. **Radiologe** 1990 Mar;30(3):145–6 **(Ger)**

[A rare metastasis of an ovarian tumor] Bialik AIa, et al. **Klin Khir** 1990;(5):47 **(Rus)**

SECRETION

Zollinger-Ellison syndrome due to gastrin-secreting ovarian cystadenocarcinoma. Case report. Boixeda D, et al. **Acta Chir Scand** 1990 May;156(5):409–10

SURGERY

Cystadenoma and cystadenocarcinoma of the pancreas. Katoh H, et al. **Hepatogastroenterology** 1989 Dec; 36(6):424–30

Management of massive ovarian tumors. Pretorius RG, et al. **Surg Gynecol Obstet** 1989 Dec;169(6):532–6 (26 ref.)

[Second-look laparotomy in epithelial ovarian cancer: an evaluation of 23 cases] Liu LY. **Chung Hua Fu Chan Ko Tsa Chih** 1990 Mar;25(2):77–9, 123 (Eng. Abstr.) **(Chi)**

[Cystadenocarcinoma of the appendix (letter)] Mary P, et al. **J Chir (Paris)** 1990 May;127(5):298–9 **(Fre)**

THERAPY

Cystadenocarcinoma of the pancreas: neo-adjuvant therapy and CEA monitoring. Wood D, et al. **J Surg Oncol** 1990 Jan;43(1):56–60

[High doses of alkylating agents and bone marrow autograft in ovarian cancer with poor prognosis: a retrospective analysis of 40 patients treated in France] Maraninchi D, et al. **Bull Cancer (Paris)** 1990;77(2):149–57 (Eng. Abstr.) **(Fre)**

[The intraperitoneal installation of gamma interferon for the treatment of refractory ovarian carcinoma] Marth C, et al. **Geburtshilfe Frauenheilkd** 1989 Nov;49(11):987–91 (Eng. Abstr.) **(Ger)**

[Effects of lymphokine-activated killer cells and interleukin-2 on the ascites formation and the survival time of nude mice bearing human ovarian cancer cells] Kikuchi Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Dec; 41(12):1891–5 (Eng. Abstr.) **(Jpn)**

CYSTADENOMA

Adenomatous tumors of the middle ear and mastoid. Benecke JE Jr, et al. **Am J Otol** 1990 Jan;11(1):20–6

[Appendicular mucocele. Review of the literature and presentation of 8 cases] Serrano Sánchez PA, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):35–41 (34 ref.) (Eng. Abstr.) **(Spa)**

ANALYSIS

Localization of gonadotropin binding sites in human ovarian neoplasms. Nakano R, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):905–10

Biochemical characterization of glycoprotein components in human ovarian cyst fluids by lectins. Yanagi K, et al. **Int J Biochem** 1990;22(6):659–63

Histochemical study of mucinous ovarian cystomas of intestinal and mixed types: O-acetylated sialomucin content in relation to biologic behavior. Fulcheri E, et al. **Tumori** 1990 Feb 28;76(1):73–6

[Mucin histochemical and immunohistochemical studies of mucinous ovarian tumors] Shi ZL. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):201–3 (Eng. Abstr.) **(Chi)**

CHEMICALLY INDUCED

[Lung tumors induction short-term test of chloroprene in mice] Dong QN, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):299–302 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

[A classification study of ovarian mucinous cystadenoma using fuzzy mathematics] Yuan Y. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;70(1):20–2, 2 (Eng. Abstr.) **(Chi)**

COMPLICATIONS

Cystadenoma of the gallbladder. Simmons TC, et al. **Am J Gastroenterol** 1989 Nov;84(11):1427–30

Coexistence of mucinous cystadenoma of the ovary and ovarian sarcoidosis. White A, et al. **Am J Obstet Gynecol** 1990 May;162(5):1284–5

Virilizing ovarian serous cystadenoma. Case report. Okolo SO, et al. **Br J Obstet Gynaecol** 1990 Mar;97(3):269–71

"Pseudoascites" secondary to an amylase-producing serous ovarian cystadenoma. A case study. Brophy CM, et al. **J Clin Gastroenterol** 1989 Dec;11(6):703–6

Zollinger-Ellison syndrome due to a borderline mucinous cystadenoma of the ovary. Garcia-Villanueva M, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):549–52

[Klippel-Trenaunay-Weber syndrome with papillary cystadenoma of the epididymis: a case report] Kawakami Y, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1977–80 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Myxoglobulosis of the cecal appendix] Guionmet N, et al. **Rev Esp Enferm Dig** 1990 May;77(5):365–7 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Pancreoscopic diagnosis of intraductal cystadenoma of the pancreas. Kohler B, et al. **Dig Dis Sci** 1990 Mar;35(3):382–4

Differential diagnosis of ovarian cancer, benign ovarian tumor and endometriosis by a combination assay of serum sialyl SSEA-1 antigen and CA125 levels. Iwanari O, et al. **Gynecol Obstet Invest** 1990;29(1):71–4

Pseudocyst or cystic neoplasm? Differential diagnosis and initial management of cystic pancreatic lesions. Lumsden A, et al. **Hepatogastroenterology** 1989 Dec;36(6):462–6

Two cases of pancreatic cystadenocarcinoma with elevated CA 19-9 levels in the cystic fluid in comparison with two cases of pancreatic cystadenoma. Nishida K, et al. **Hepatogastroenterology** 1989 Dec;36(6):442–5

Cystic neoplasms of the pancreas. Doberstein C, et al. **Mt Sinai J Med** 1990 Mar;57(2):102–5

From the Archives of the AFIP. Microcystic adenoma of the pancreas. Buck JL, et al. **Radiographics** 1990 Mar; 10(2):313–22 (24 ref.)

[Distribution and diagnostic role of COTA in mucinous ovarian tumors] Shi ZL. **Chung Hua Chung Liu Tsa Chih** 1989 May;11(3):191–2 (Eng. Abstr.) **(Chi)**

[Mucinous cystadenoma of the pancreas—exact endoscopic assessment with pancreoscopy] Kohler B, et al. **Leber Magen Darm** 1990 Jul;20(4):196–9 (Eng. Abstr.) **(Ger)**

[Serous cystadenoma and mucinous cystadenoma/cystadenocarcinoma of the pancreas. Clinical manifestation, diagnostic procedure and therapeutic concept] Löser C, et al. **Leber Magen Darm** 1990 Jul; 20(4):173–4, 177–9 (28 ref.) (Eng. Abstr.) **(Ger)**

[Painless increase of abdominal girth (clinical conference)] Braun-Dreuw B, et al. **Schweiz Rundsch Med Prax** 1990 Apr 17;79(16):503–4 (Eng. Abstr.) **(Ger)**

[Role of echography in the diagnosis of ovarian tumors] Goddi A, et al. **Radiol Med (Torino)** 1990 Jan–Feb; 79(1–2):77–8 (Eng. Abstr.) **(Ita)**

[A case of liver cystadenoma—significance of tumor marker level of the cyst fluid in differentiating pathological nature] Kitao Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr;

87(4):1078–82 (26 ref.) (Jpn)
[Echographic study of cystadenoma and cystadenocarcinoma of the pancreas] Cerri GG, et al.
Rev Hosp Clin Fac Med Sao Paulo 1989 Sep–Oct; 44(5):244–8 (Eng. Abstr.) (Por)
[Assessment of the activity of tumor necrosis factor in normal state and in ovarian tumors] Koval'chuk LV, et al.
Biull Eksp Biol Med 1990 Jun;109(6):571–3 (Eng. Abstr.) (Rus)

EMBRYOLOGY

Case of retroperitoneal mucinous cystadenoma omitted [letter; comment] Cruikshank SH. Am J Obstet Gynecol 1990 May;162(5):1351–2 Comment on: Am J Obstet Gynecol 1989 May;160(5 Pt 1):1229–31.

ENZYMOLOGY

Purification and characterisation of the placental-like alkaline phosphatase from ovarian epithelial tumours. Koyama I, et al. Br J Cancer Suppl 1990 Jul;10:6–11
Immunolocalization of alpha-amylase in ovarian mucinous tumours. Griffin NR, et al. Int J Gynecol Pathol 1990; 9(1):41–6

EPIDEMIOLOGY

Ovarian tumours--prevalence in Punjab. Prabhakar BR, et al. Indian J Pathol Microbiol 1989 Oct;32(4):276–81

ETIOLOGY

Papillary cystadenoma of the broad ligament in von Hippel–Lindau disease. Korn WT, et al.
Am J Obstet Gynecol 1990 Aug;163(2):596–8
[Histogenetic considerations on mucinous cystomas of the ovary based on histochemical and immunohistochemical findings] Lapertosa G. Pathologica 1989 Jul–Aug; 81(1074):381–401 (62 ref.) (Eng. Abstr.) (Ita)

NURSING

[Psychological care of patients with ovarian tumor] Chen J. Chung Hua Hu Li Tsa Chih 1989 May;24(5):289–90 (Chi)

PATHOLOGY

Broad ligament mucinous and serous cystadenomas of borderline malignancy. Jensen ML, et al.
Acta Obstet Gynecol Scand 1989;68(7):663–7
Serous cystadenoma of the esophagus. Tsutsumi M, et al. Acta Pathol Jpn 1990 Feb;40(2):153–5
Obstructing villous adenoma and papillary adenomatosis of the bile ducts. Harshfield DL, et al.
AJR Am J Roentgenol 1990 Jun;154(6):1217–8
Papillary cystadenoma of the epididymis. A report of three cases with lectin histochemistry. Kragel PJ, et al.
Arch Pathol Lab Med 1990 Jul;114(7):672–5
Pancreatic cystadenoma. A clinicopathologic study. Corbally MT, et al. Arch Surg 1989 Nov;124(11):1271–4
Cytology of pseudomyxoma peritonei: report of two cases arising from appendiceal cystadenomas. Costa M, et al.
Diagn Cytopathol 1990;6(3):201–3
Broad ligament mucinous cystadenoma of borderline malignancy. Jensen ML, et al. Histopathology 1990 Jan; 16(1):89–91
Papillary cystadenoma of seminal vesicle. A case report. Raghuveer CV, et al. Indian J Pathol Microbiol 1989 Oct; 32(4):314–5
Ovarian mucinous cystadenoma with leiomyomatous mural nodule. Lifachitz-Mercer B, et al. Int J Gynecol Pathol 1990;9(1):80–5
Apocrine hidrocystoma--a report of five cases and review of the Japanese literature. Fukuda M, et al. J Dermatol 1989 Aug;16(4):315–20 (20 ref.)
Cystic tumors of the pancreas. Albores-Saavedra J, et al. Pathol Annu 1990;25 Pt 2:19–50 (68 ref.)
[A case of an asymptomatic course in a giant pseudomucinous cystadenoma] Grozdanov G, et al.
Akush Ginekol (Sofiia) 1989;28(4):84–6 (Bul)
[Relationship between malignant transformation of ovarian mucinous cystadenoma and intestinal epithelial metaplasia] Zhong CQ. Chung-hua Ping Li Hsueh Tsa Chih 1989 Jun; 18(2):134–6 (Eng. Abstr.) (Chi)
[Pancreatic cystadenoma] Le Borgne J. Ann Chir 1989; 43(6):451–7 (23 ref.) (Eng. Abstr.) (Fre)
[Sweat gland tumors in Niger. Anatomopathology] Warter A, et al. Ann Dermatol Venereol 1989;116(9):621–7 (26 ref.) (Eng. Abstr.) (Fre)
[Intratesticular papillary cystadenoma. A rare analogue of serous papillary cystadenoma of the ovary] Meister P, et al. Pathologe 1990 May;11(3):183–7 (Ger)
[Cystic adenoma of the pancreas] Zahradka W, et al.
Z Gesamte Inn Med 1990 Jan 1;45(1):20–1 (Eng. Abstr.) (Ger)
[A serous cystadenoma of the ovary of borderline malignancy with a fifteen-year history. A case report] Nagata O, et al. Gan No Rinsho 1990 Apr;36(5):669–73 (Eng. Abstr.) (Jpn)
[An early combined endodermal sinus tumor of the ovary that was diagnosed due to torsion of serous cystadenoma--a case report] Sawai H, et al.
Gan No Rinsho 1989 Oct;35(12):1473–8 (Eng. Abstr.) (Jpn)
[Papillary adenoma of the prostatic urethra--a case report and review of 61 cases in Japan] Sato N, et al.
Hinyokika Kiyo 1990 May;36(5):623–6 (7 ref.) (Eng. Abstr.) (Jpn)
[Mucin-producing cystadenoma (borderline malignancy) of the renal pelvis and ureter. A case report] Ohyabu Y, et al. Nippon Hinyokika Gakkai Zasshi 1990 Jun;81(6):913–6 (9 ref.) (Eng. Abstr.) (Jpn)
[A rare case of coexistence of pancreatic cystadenoma and adenocarcinoma of the rectum] Ostapiuk H, et al.
Wiad Lek 1989 May 1;42(9):612–5 (Eng. Abstr.) (Pol)
[Adenocystic cancer of the breast (clinico-morphologic characteristics)] Ermilova VD, et al. Arkh Patol 1989; 51(6):72–5 (Eng. Abstr.) (Rus)
[Mucinous cystadenoma of ileocecal appendix] Lesaga Llopis J, et al. Rev Esp Enferm Apar Dig 1989 Dec;76(6 Pt 2):681–3 (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

Papillary adenoma of the gallbladder associated with regurgitation of pancreatic juice through abnormally shaped union. Case report. Yamaguchi K, et al.
Acta Chir Scand 1989 Oct;155(10):549–52
[Clinico-enzymologic parallels in patients of reproductive age with benign epithelial ovarian tumors] Zaporozhan VN, et al. Akush Ginekol (Mosk) 1990 Feb;(2):45–9 (Eng. Abstr.) (Rus)

RADIOGRAPHY

CT appearance of an oncocytic papillary cystadenoma of the larynx. Friedman L, et al. J Comput Assist Tomogr 1990 Mar–Apr;14(2):322–4
[A case of planum sphenoidale destruction due to cystadenoma of the ethmoid bone] Furuse S.
Rinsho Hoshasen 1989 Aug;34(8):899–900 (Jpn)
[A cystic mass in the right iliac fossa] Diego Rey P, et al.
Rev Clin Esp 1989 Dec;185(9):473–5 (Spa)

SECONDARY

Sigmoid invasion as a late complication of mucinous cystadenoma of the appendix. Report of a case. Corder AP, et al. Dis Colon Rectum 1990 Jul;33(7):619–20
The consequences of unsuspected secondary ovarian neoplasia: a clinical presentation of four case histories. Roley KM, et al. Gynecol Oncol 1990 Feb;36(2):277–80

SURGERY

Hepatobiliary cystadenoma with mesenchymal stroma. Akwari OE, et al. Ann Surg 1990 Jan;211(1):18–27 (42 ref.)
Major gynaecological surgery in patients with severe coronary artery disease--the combined approach. Kannan P, et al. Aust N Z J Obstet Gynaecol 1990 May;30(2):146–9
Total excision of mucinous biliary cystadenoma. Lau WY, et al. Aust N Z J Surg 1990 Mar;60(3):226–8
Cystadenoma and cystadenocarcinoma of the pancreas. Katoh H, et al. Hepatogastroenterology 1989 Dec; 36(6):424–30
Extrahepatic biliary cystadenoma: report of a case and review of the literature. Byrne DJ, et al. J R Coll Surg Edinb 1989 Aug;34(4):223–4 (21 ref.)
Primary adenocarcinoma of the appendix. Evans DA, et al. J R Coll Surg Edinb 1990 Feb;35(1):33–5
Management of massive ovarian tumors. Pretorius RG, et al. Surg Gynecol Obstet 1989 Dec;169(6):532–6 (26 ref.)
[Evaluation of benign ovarian tumour surgery] Lin ZQ.
Chung Hua Fu Chan Ko Tsa Chih 1989 Jul;24(4):228–30, 253 (Eng. Abstr.) (Chi)
[Benign cystic neoplasm of the pancreas: considerations on 2 surgically treated cases] Lucci S, et al. G Chir 1989 Oct; 10(10):599–604 (Eng. Abstr.) (Ita)

THERAPY

Conservative management of an ovarian cyst in late pregnancy. van Oppen AC, et al.
Int J Gynaecol Obstet 1990 Apr;31(4):371–5

CYSTADENOMA LYMPHOMATOSUM, PAPILLARY see ADENOLYMPHOMA

CYSTAMINE

CHEMICAL SYNTHESIS

The effect of a cystamine derivative, bis[2-(E-2-hexenoylamino)ethyl] disulfide, on rat platelet aggregation. Mimura T, et al.
Chem Pharm Bull (Tokyo) 1989 Jul;37(7):1946–7

PHARMACOLOGY

Phosphorylase and creatine kinase modification by thiol–disulfide exchange and by xanthine oxidase–initiated S–thiolation. Miller RM, et al. Arch Biochem Biophys 1990 Feb 1;276(2):355–63
The effect of a cystamine derivative, bis[2-(E-2-hexenoylamino)ethyl] disulfide, on rat platelet aggregation. Mimura T, et al.
Chem Pharm Bull (Tokyo) 1989 Jul;37(7):1946–7
Protection by pantethine, pantothenic acid and cystamine against carbon tetrachloride–induced hepatotoxicity in the rat. Nagiel-Ostaszewski I, et al.
Res Commun Chem Pathol Pharmacol 1990 Feb; 67(2):289–92
[The mechanism of the radioprotective action of cystamine and mexamine] Chigareva NG, et al. Radiobiologiia 1990 Jan–Feb;30(1):84–7 (Eng. Abstr.) (Rus)

CYSTAPHOS see under ORGANOTHIOPHOSPHORUS COMPOUNDS

CYSTATHIONINE

ANALOGS & DERIVATIVES

Influence of diet on cystathionine ketimine and lanthionine ketimine content in human urine. Antonucci A, et al.
Ital J Biochem 1990 Mar–Apr;39(2):100–5
Determination of N-monoacetylcystathionine in biological samples using isotachophoresis. Mizobuchi N, et al.
J Chromatogr 1990 Apr 6;526(2):550–5

ANALYSIS

Determination of N-monoacetylcystathionine in biological samples using isotachophoresis. Mizobuchi N, et al.
J Chromatogr 1990 Apr 6;526(2):550–5

CYSTATHIONINE BETA-SYNTHASE see under HYDRO-LYASES

CYSTATHIONINE GAMMA-LYASE see under LYASES

CYSTATIN SUPERFAMILY see CYSTATINS

CYSTATINS

The refined 2.4 A X-ray crystal structure of recombinant human stefin B in complex with the cysteine proteinase papain: a novel type of proteinase inhibitor interaction. Stubbs MT, et al. EMBO J 1990 Jun;9(6):1939–47
Chicken egg white cystatin. Molecular cloning, nucleotide sequence, and tissue distribution. Colella R, et al.
J Biol Chem 1989 Oct 15;264(29):17164–9
Dementia in hereditary cystatin C amyloidosis. Blöndal H, et al. Prog Clin Biol Res 1989;317:157–64
[Cysteine proteinase inhibitors of animal origin] Isemura S, et al. Tanpakushitsu Kakusan Koso 1989 Jul;34(8):963–71 (Jpn)

ANALYSIS

Cystatin A and B in the development of human squamous epithelia. Pernu H, et al. Acta Histochem (Jena) 1990; 88(1):53–7
Immunohistochemical study of cerebral amyloid angiopathy. III. Widespread Alzheimer A4 peptide in cerebral microvessel walls colocalizes with gamma trace in patients with leukoencephalopathy. Vinters HV, et al.
Ann Neurol 1990 Jul;28(1):34–42
Immunocochemical quantitation of cysteine proteinase inhibitor cystatin C in inflamed human gingiva. Skalerič U, et al.
Arch Oral Biol 1989;34(4):301–5
Rat cystatin C: the complete amino acid sequence reveals a site for N-glycosylation. Esnard F, et al.
Biol Chem Hoppe Seyler 1990 May;371 Suppl:161–6
N-terminal variants of recombinant stefin B: effect on affinity for papain and cathepsin B. Thiele U, et al.
Biol Chem Hoppe Seyler 1990 May;371 Suppl:125–36
Refolding of chicken cystatin and human stefin A studied by fast protein liquid chromatography (FPLC). Zerovnik E, et al. Biol Chem Hoppe Seyler 1990 May;371 Suppl:151–6
A rapid radioimmunoassay for inducible rat submandibular gland cysteine proteinase inhibitor (cystatin). Bedi GS.
Immunol Invest 1990 Apr;19(2):199–208
Isolation and characterization of three non-mucinous human salivary proteins with affinity for hydroxyapatite. Rathman WM, et al. J Biol Buccale 1989 Sep;17(3):199–208
Dementia with non-hereditary cystatin C angiopathy. Benedikz E, et al. Prog Clin Biol Res 1989;317:317–22
Study of restriction fragment length polymorphism in the cystatin C gene of elderly patients with dementia and aged Down's syndrome patients. Palsdottir A, et al.
Prog Clin Biol Res 1989;317:235–9

BIOSYNTHESIS

Efficient preparation of human recombinant cystatin A by Escherichia coli. Kaji H, et al.
Biol Chem Hoppe Seyler 1990 May;371 Suppl:145–50
Evidence of protease activity producing NH2-terminal truncated form of rat cystatin A in newborn rat epidermis. Takeda A, et al. Biol Chem Hoppe Seyler 1990 May;371 Suppl:233–8

CEREBROSPINAL FLUID

The amino terminal portion of cerebrospinal fluid cystatin C in hereditary cystatin C amyloid angiopathy is not truncated: direct sequence analysis from agarose gel electropherograms. Olafsson I, et al.
Scand J Clin Lab Invest 1990 Feb;50(1):85–93
[Diagnosis of cerebral amyloid angiopathy with cerebral hemorrhage by enzyme linked immunosorbent assay (ELISA) of cystatin C in the cerebrospinal fluid] Shimode K, et al. Rinsho Shinkeigaku 1990 Mar;30(3):288–93 (Eng. Abstr.) (Jpn)

CHEMICAL SYNTHESIS

Synthesis of cysteine proteinase inhibitors structurally based on the proteinase interacting N-terminal region of human cystatin C. Grubb A, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:137–44

GENETICS

Structure and expression of the human cystatin C gene. Abrahamson M, et al. **Biochem J** 1990 Jun 1;268(2):287–94

Expression and induction by beta-adrenergic agonists of the cystatin S gene in submandibular glands of developing rats. Shaw PA, et al. **Biochem J** 1990 Jan 1;265(1):115–20

Cystatin C mutation causing amyloid angiopathy and brain hemorrhage. Jensson O, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:229–32

Mutations in the QVVAG region of the cysteine proteinase inhibitor stefin B. Jerala R, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:157–60

The saga of cystatin C gene mutation causing amyloid angiopathy and brain hemorrhage—clinical genetics in Iceland. Jensson O, et al. **Clin Genet** 1989 Nov;36(5):368–77 (90 ref.)

The cDNA structure and expression analysis of the genes for the cysteine proteinase inhibitor cystatin C and for beta 2-microglobulin in rat brain. Cole T, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):35–42

Bacterial expression of human cysteine proteinase inhibitor stefin A. Fong D, et al. **FEBS Lett** 1989 Oct 23;257(1):55–8

Studies on the reactive site of the cystatin superfamily using recombinant cystatin A mutants. Evidence that the QVVAG region is not essential for cysteine proteinase inhibitory activities. Nikawa T, et al. **FEBS Lett** 1989 Sep 25;255(2):309–14

Cloning and sequence analysis of the genomic DNA fragment encoding oryzacystatin. Kondo H, et al. **Gene** 1989 Sep 30;81(2):259–65

The complete cDNA and amino acid sequence of bovine fetuin. Its homology with alpha 2HS glycoprotein and relation to other members of the cystatin superfamily. Dziegielewska KM, et al. **J Biol Chem** 1990 Mar 15; 265(8):4354–7

Two distinct cystatin species in rice seeds with different specificities against cysteine proteinases. Molecular cloning, expression, and biochemical studies on oryzacystatin-II. Kondo H, et al. **J Biol Chem** 1990 Sep 15;265(26):15832–7

Evolution of proteins of the cystatin superfamily. Rawlings ND, et al. **J Mol Evol** 1990 Jan;30(1):60–71

Mutation in the cystatin C gene causes hereditary brain hemorrhage. Palsdottir A, et al. **Prog Clin Biol Res** 1989; 317:241–6

IMMUNOLOGY

Immunohistochemical characterization of cerebrovascular amyloid in 46 autopsied cases using antibodies to beta protein and cystatin C. Maruyama K, et al. **Stroke** 1990 Mar;21(3):397–403

ISOLATION & PURIFICATION

Inhibitory properties of low molecular mass cysteine proteinase inhibitors from human sarcoma. Lah TT, et al. **Biochim Biophys Acta** 1989 Oct 13;993(1):63–73

Comparison of a salivary 14 kD protein displaying cysteine proteinase inhibitory activity with other salivary cystatins. Rathman WM, et al. **J Biol Buccale** 1990 Mar;18(1):9–18

A rapid' two-step purification of rat cystatin C, one major inhibitor of cysteine proteinases. Tavera C, et al. **Prep Biochem** 1989;19(4):279–91

METABOLISM

Immunoreactive A4 and gamma-trace peptide colocalization in amyloidotic arteriolar lesions in brains of patients with Alzheimer's disease. Vinters HV, et al. **Am J Pathol** 1990 Aug;137(2):233–40

Simulation of the inhibitory cystatin surface by a synthetic peptide. Moreau T, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):117–22

Interaction between chicken cystatin and the cysteine proteinases actinidin, chymopapain A, and ficin. Björk I, et al. **Biochemistry** 1990 Feb 20;29(7):1770–6

Tissue and biological fluid distribution of cysteine proteinases inhibitor: rat cystatin C. Tavéra C, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:187–92

High-level expression of active human cystatin C in Escherichia coli. Dalbøge H, et al. **Gene** 1989 Jul 15; 79(2):325–32

Tissue distribution of an inducible cystatin in isoproterenol-treated rats. Cohen RE, et al. **Lab Invest** 1990 Apr;62(4):452–8

Binding of cystatin C to C4: the importance of sense-antisense peptides in their interaction. Ghiso J, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1288–91

Cerebral amyloid angiopathy with the deposition of cystatin C (gamma-trace) and beta-protein. Fujihara S, et al. **Prog Clin Biol Res** 1989;317:939–44

[Hereditary cerebral hemorrhage. Dementia with cystatin C amyloidosis] Blöndal H, et al. **Nord Med** 1990;105(3):76–7, 81 (Eng. Abstr.) (Swe)

PHARMACOLOGY

Equilibrium and kinetic studies of the interaction of chicken cystatin with four cysteine proteinases. Björk I, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:119–24

Modulation of phagocytosis-associated respiratory burst by human cystatin C: role of the N-terminal tetrapeptide Lys-Pro-Pro-Arg. Leung-Tack J, et al. **Exp Cell Res** 1990 May;188(1):16–22

Neutrophil chemotactic activity is modulated by human cystatin C, an inhibitor of cysteine proteases. Leung-Tack J, et al. **Inflammation** 1990 Jun;14(3):247–58

Cystatin C, a human proteinase inhibitor, blocks replication of herpes simplex virus. Björck L, et al. **J Virol** 1990 Feb; 64(2):941–3

PHYSIOLOGY

Rat cystatin C: inhibitor of granulocyte phagocytic functions. Leung-Tack J, et al. **Biol Chem Hoppe Seyler** 1990 May; 371 Suppl:255–8

Modulation of phagocytosis-associated respiratory burst by human cystatin C: role of the N-terminal tetrapeptide Lys-Pro-Pro-Arg. Leung-Tack J, et al. **Exp Cell Res** 1990 May;188(1):16–22

SECRETION

Identification of cystatin C, a cysteine proteinase inhibitor, as a major secretory product of human alveolar macrophages in vitro. Chapman HA Jr, et al. **Am Rev Respir Dis** 1990 Mar;141(3):698–705

URINE

Direct radioimmunoassay of rat cystatin C: increased urinary excretion of this cysteine proteases inhibitor during chromate nephropathy. Collé A, et al. **J Immunoassay** 1990; 11(2):199–214

CYSTATINS, KININOGEN see **KININOGENS**

CYSTEAMINE

Histamine, histamine formation capacity and gastrin in cysteamine-induced peptic ulcer. Man WK, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):95–104

The effect of verapamil on cysteamine-induced duodenal ulcer in the rat. Lee CK, et al. **J Korean Med Sci** 1987 Dec;2(4):247–53

Duodenal SP-like immunoreactivity is decreased in experimentally-induced duodenal ulcers. Evangelista S, et al. **Neurosci Lett** 1990 May 4;112(2–3):352–5

Changes in levels of mucosal glycoprotein on cysteamine-induced duodenal ulcers in rats. Koga K, et al. **Scand J Gastroenterol Suppl** 1989;162:120–3

Epidermal growth factor inhibits cysteamine-induced duodenal ulcers in rats. Kunizaki C, et al. **Scand J Gastroenterol Suppl** 1989;162:218–21

ADMINISTRATION & DOSAGE

Dietary restriction alone and in combination with oral ethoxyquin/2-mercaptoethylamine in mice. Harris SB, et al. **J Gerontol** 1990 Sep;45(5):B141–7

ANALYSIS

Chemistry on solid supports: defining events and titers by use of cleavable, assayable linking molecules. Marburg S, et al. **Anal Biochem** 1989 Sep;181(2):242–9

PHARMACOLOGY

Quantity of DNA in the organs of adult Swiss male mice after AET and MEA treatment. Manowska J, et al. **Acta Physiol Hung** 1989;74(3–4):315–9

Effects of pantethine, cysteamine and pantothenic acid on open-field behavior and brain catecholamines in rats. Vécsei L, et al. **Arch Int Pharmacodyn Ther** 1989 Jul-Aug; 300:14–21

Structural studies on the inactivation of gamma-glutamylcysteine synthetase by the disulphide analogues of radioprotective cysteamine derivatives. Effects of aminoalkyl and hydroxyalkyl chain length and beta beta-bis-dimethylation. Schor NF, et al. **Biochem J** 1990 Apr 15;267(2):291–6

Depletion of cystine in cystinotic fibroblasts by homocysteine. Synergism of cysteamine with various reducing agents in depletion of cystine from cystinotic fibroblasts. Butler JD. **Biochem Pharmacol** 1990 Aug 15; 40(4):879–85

Morris water task impairment and hypoactivity following cysteamine-induced reductions of somatostatin-like immunoreactivity. Fitzgerald LW, et al. **Brain Res** 1989 Dec 29;505(2):246–50

Gomori-positive astrocytes in primary culture: effects of in vitro age and cysteamine exposure. Schipper HM, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):71–9

Stimulatory activity of cysteamine on juvenile hormone release in adult females of the cockroach, Blattella germanica. Piulachs MD, et al. **Comp Biochem Physiol [A]** 1989;94(4):795–8

Different effects of cytoprotective drugs on ethanol- and aspirin-induced gastric mucosal injury in pylorus-ligated rats. Takeuchi K, et al. **Dig Dis Sci** 1990 Feb;35(2):178–85

Pentylenetetrazole-induced kindling is prevented by prior treatment with cysteamine. Barkai E, et al. **Eur J Pharmacol** 1990 Jun 21;182(1):167–9

Tissue norepinephrine depletion as a mechanism for cysteamine inhibition of colon carcinogenesis induced by azoxymethane in Wistar rats. Tatsuta M, et al. **Int J Cancer** 1989 Dec 15;44(6):1008–11

Comparative effect of the thiols dithiothreitol, cysteamine and WR-151326 on survival and on the induction of DNA damage in cultured Chinese hamster ovary cells exposed to gamma-radiation. Murray D, et al. **Int J Radiat Biol** 1990 Jul;58(1):71–91

Effect of cysteamine on the lysosomal enzymes of the hyperprolactinaemic rat pituitary. Jeitner TM, et al. **J Endocrinol** 1990 Apr;124(1):79–90

Influence of cysteamine and cysteine on open-field behaviour, and on brain concentrations of catecholamines, somatostatin, neuropeptide Y, and corticotropin releasing hormone in the rat. Vécsei L, et al. **J Neural Transm Gen Sect** 1989;78(3):209–20

Effects of lathyrogens on the mechanical strength of the periodontal ligament in the rat mandibular first molar. Ohshima S, et al. **J Periodont Res** 1989 Sep;24(5):343–50

Cysteamine normalizes cerebral somatostatin level and binding in pentylenetetrazol-kindled rats. Perez-Oso E, et al. **Life Sci** 1989;45(25):2451–8

Cysteamine increases homocysteine export and glutathione content by independent mechanisms in C3H/10T1/2 cells. Djurhuus R, et al. **Mol Pharmacol** 1990 Sep;38(3):327–32

Effects of the duodenal ulcerogens, mepirizole and cysteamine, on gastric motility and emptying in rats. Tanaka H, et al. **Scand J Gastroenterol Suppl** 1989; 162:104–7

The role of heme oxygenase and aryl hydrocarbon hydroxylase in the protection by cysteamine from acetaminophen hepatotoxicity. Peterson TC, et al. **Toxicol Appl Pharmacol** 1989 Mar 1;97(3):430–9

Confirmation of the protective effect of cysteamine in in vitro ultrasound exposures. Inoue M, et al. **Ultrasonics** 1989 Nov; 27(6):362–9

[The modifying effect of glycerine and cysteamine on prophage lambda induction in E. coli cells under gamma irradiation] Bartsevich VV, et al. **Radiobiologiia** 1990 Mar-Apr;30(2):190–3 (Eng. Abstr.) (Rus)

[Pathogenic aspects of duodenal ulcers by cysteamine. Role of the Brunner glands] Laudanno OM, et al. **Acta Gastroenterol Latinoam** 1988;18(3):187–94 (Eng. Abstr.) (Spa)

THERAPEUTIC USE

A randomized placebo-controlled trial of cysteamine eye drops in nephropathic cystinosis. Kaiser-Kupfer MI, et al. **Arch Ophthalmol** 1990 May;108(5):689–93

Attenuating effect of bromocriptine on cysteamine anticarcinogenesis of stomach cancers induced by N-methyl-N'-nitro-N-nitrosoguanidine. Tatsuta M, et al. **Cancer Res** 1990 Sep 1;50(17):5308–11

Therapeutic attempts in sulphite oxidase deficiency [letter] Kamoun P, et al. **Eur J Pediatr** 1990 May;149(8):594

From the National Institutes of Health. Raub W. **JAMA** 1990 Oct 3;264(13):1650

[Treatment of cystinosis using cysteamine] Broyer M, et al. **Ann Pediatr (Paris)** 1990 Feb;37(2):91–3 (Eng. Abstr.) (Fre)

TOXICITY

Pirenzepine prevents cysteamine-induced formation of gastroduodenal ulcers and reduction of mesenteric circulation. Bernardini MC, et al. **Arch Int Pharmacodyn Ther** 1989 Nov-Dec;302:242–54

Cysteamine-induced duodenal ulcer and the hepatoduodenal branch of the vagus nerve. Kato K, et al. **Gastroenterol Jpn** 1990 Jun;25(3):314–9

The relationship of intraduodenal pH and delayed gastric emptying in duodenal ulceration induced by mepirizole or cysteamine in rats. Tanaka H, et al. **Jpn J Pharmacol** 1989 Dec;51(4):483–92

Pathogenesis of the earliest epithelial cell damage induced by mepirizole and cysteamine in the rat duodenum. Tanaka H, et al. **Jpn J Pharmacol** 1989 Dec;51(4):509–19

CYSTECTOMY

see related

URINARY DIVERSION

Results of cystectomy with and without preoperative radiotherapy in carcinoma of the urinary bladder. Nurmi MJ, et al. **Acta Oncol** 1990;29(1):39–42

Intra-operative pulmonary embolism after intravesical instillation of formalin. Oshima S, et al. **Anaesthesia** 1990 Aug;45(8):638–9

Continence after total bladder replacement: urodynamic analysis of the ileal neobladder. Bachor R, et al. **Br J Urol** 1990 May;65(5):462–6

Total bladder replacement in the male and female using the ileocolonic segment (LeBag). Light JK, et al. **Br J Urol** 1990 May;65(5):467–72

Comparison of intrathecal meperidine and lidocaine in endoscopic urological procedures. Patel D, et al. **Can J Anaesth** 1990 Jul;37(5):567–70

Continent reservoirs. Colberg JW, et al. **Conn Med** 1989 Oct; 53(10):573–6

Comparison between short-course high-dose preoperative irradiation with immediate radical cystectomy and salvage

cystectomy after full-dose irradiation. Nissenkorn I, et al. **Eur Urol** 1990;18(1):23–6

Partial cystectomy in the management of rhabdomyosarcoma of the bladder: a report from the Intergroup Rhabdomyosarcoma Study. Hays DM, et al. **J Pediatr Surg** 1990 Jul;25(7):719–23

Unexpectedly high serum methotrexate levels in cystectomized bladder cancer patients with an ileal conduit treated with intermediate doses of the drug. Fossâ SD, et al. **J Urol** 1990 Mar;143(3):498–501

Urethral recurrence following radical cystectomy. Hardeman SW, et al. **J Urol** 1990 Sep;144(3):666–9

Postoperative spindle cell nodule of the prostate and bladder. Huang WL, et al. **J Urol** 1990 Apr;143(4):824–6

The role of radical cystectomy in the management of high grade superficial bladder cancer (PA, P1, PIS and P2). Malkowicz SB, et al. **J Urol** 1990 Sep;144(3):641–5

Urethral tumor recurrences after radical cystoprostatectomy: the case for primary cystoprostatourethrectomy? Stöckle M, et al. **J Urol** 1990 Jan;143(1):41–2; discussion 43

Preoperative irradiation and radical cystectomy for stages T2 and T3 squamous cell carcinoma of the bladder. Swanson DA, et al. **J Urol** 1990 Jan;143(1):37–40

Neoadjuvant chemotherapy in deeply invasive bladder cancer: the Italian experience. The Lombard Urologists. **Semin Urol** 1990 Aug;8(3):205–9

Retropubic dorsal vein control during radical prostatectomy or cystectomy. Abromowitz HB, et al. **Urol Clin North Am** 1990 Feb;17(1):49–53

Alternate approaches to pelvic abscess drainage after cystectomy. Place C, et al. **Urol Radiol** 1989;11(3):161–4

Development of upper tract carcinoma after cystectomy for bladder carcinoma. Malkowicz SB, et al. **Urology** 1990 Jul; 36(1):20–2

[Continent urinary diversion following cystectomy in bladder carcinoma] Petrov P, et al. **Khirurgiia (Sofiia)** 1989; 42(5):74–7 (37 ref.) **(Bul)**

[Reconstruction of the bladder from ileum following cystectomy (letter)] **Lens J. Ned Tijdschr Geneeskd** 1989 Dec 9;133(49):2463–4 **(Dut)**

[Low-pressure enterocystoplasty after prostato-cystectomy for cancer. Apropos of 13 cases] Fiatte P, et al. **Ann Urol (Paris)** 1990;24(3):193–7 (Eng. Abstr.) **(Fre)**

[The ileum neobladder—technic and results of bladder augmentation] Frohneberg D, et al. **Helv Chir Acta** 1989 Aug;56(3):335–7 (Eng. Abstr.) **(Ger)**

[Systematic histologic urinary bladder mapping in primary urinary bladder cancers] Theuring F, et al. **Pathologe** 1990 May;11(3):148–53 **(Ger)**

[The effect of midazolam on blood circulation and respiration during spinal anesthesia in urology] Fritz KW, et al. **Reg Anasth** 1989 Sep;12(5):95–8 (Eng. Abstr.) **(Ger)**

[Conversion of supravesical urinary diversion to an ileal neobladder. Indications, results, problems] Egghart G, et al. **Urologe [A]** 1990 May;29(3):141–5 (Eng. Abstr.) **(Ger)**

[Left ureteral tumor five years after radical cystectomy associated with duplication of inferior vena cava: a case report] Inaba Y, et al. **Hinyokika Kiyo** 1989 Aug; 35(8):1397–400 (Eng. Abstr.) **(Jpn)**

[A case of fused pelvic kidney (lump kidney) with invasive bladder tumor] Iritani Y, et al. **Hinyokika Kiyo** 1989 Jun; 35(6):1041–5 (Eng. Abstr.) **(Jpn)**

[Pathohistological comparison of biopsy specimens with all-layer cystectomy specimens in bladder cancer] Miyamoto K, et al. **Hinyokika Kiyo** 1989 Oct; 35(10):1687–91 (Eng. Abstr.) **(Jpn)**

[Prognosis of bladder tumor patients treated by TUR] Nukui M, et al. **Hinyokika Kiyo** 1989 Sep;35(9):1497–501 (Eng. Abstr.) **(Jpn)**

[Clinical analysis of 40 total cystectomies for bladder tumor] Taki Y, et al. **Hinyokika Kiyo** 1989 Sep;35(9):1489–95 (Eng. Abstr.) **(Jpn)**

[An anesthetic experience of a patient with congestive cardiomyopathy] Amano N, et al. **Masui** 1989 Sep; 38(9):1201–5 (Eng. Abstr.) **(Jpn)**

[Four cases of bladder replacement by enterocystoplasty after radical cystectomy for bladder cancer] Akaza H, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Mar;81(3):471–4 (Eng. Abstr.) **(Jpn)**

[Analysis of histopathological prognostic factors in patients who underwent radical cystectomy in cancer of the bladder] Tachibana M, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Apr;81(4):601–7 (Eng. Abstr.) **(Jpn)**

[A case of proliferative chronic cystitis, progressing to obstructive nephropathy, treated by total cystectomy and enterocystoplasty] Takai K, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Jul;80(7):1059–62 (Eng. Abstr.) **(Jpn)**

[Clinical assessment for 152 total cysto-urethrectomized bladder cancers] Tsujihashi H, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Nov;80(11):1632–7 (Eng. Abstr.) **(Jpn)**

[Pathological studies of the bladder wall after contact Nd:YAG laser irradiation in the treatment of bladder cancer] Washida H, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Mar;81(3):380–5 (Eng. Abstr.) **(Jpn)**

[Comparative evaluation of different methods of urine derivation after cystectomy for bladder cancer] Matveev BP, et al. **Urol Nefrol (Mosk)** 1989 Jul–Aug;(4):39–43 (Eng. Abstr.) **(Rus)**

[Causes of the functional disorder of the kidneys in patients with bladder cancer after cystectomy with ureterosigmoid anastomosis] Nechiporenko NA, et al. **Urol Nefrol (Mosk)** 1989 Jul–Aug;(4):43–7 (Eng. Abstr.) **(Rus)**

[Clinico-roentgenologic characteristics of postoperative osteitis of the pubic bones] Perel'man VM, et al. **Vestn Rentgenol Radiol** 1989 Nov–Dec;(6):28–36 (Eng. Abstr.) **(Rus)**

[Combined operations in colorectal cancer with bladder resection] Bondar' GV, et al. **Vopr Onkol** 1990;36(7):875–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Unique urinary-fecal calculus after cystectomy and ureterosigmoidostomy. Goodwin WE, et al. **J Urol** 1989 Nov;142(5):1314–5

Management of rectal injuries during radical cystectomy. Kozminski M, et al. **J Urol** 1989 Nov;142(5):1204–5

Hyperbilirubinemia after single-stage radical cystectomy and ileal loop diversion. Rubenstein EB, et al. **Urology** 1990 Mar;35(3):205–9

[Penile and urethral metastases from superficial bladder tumor after TUR: a case report] Takahashi S, et al. **Hinyokika Kiyo** 1989 Jun;35(6):1055–9 (Eng. Abstr.) **(Jpn)**

INSTRUMENTATION

[The urethral protractor. A new instrument for facilitating the anastomosis between urethra and bladder in radical prostatectomy and urethro-intestinal anastomoses following cystectomy] Fröhlich G, et al. **Urologe [A]** 1990 May;29(3):155–7 (Eng. Abstr.) **(Ger)**

METHODS

Failure of combined supratrigonal cystectomy and Mainz ileocecocystoplasty in intractable interstitial cystitis: is histology and mast cell count a reliable predictor for the outcome of surgery? Nielsen KK, et al. **J Urol** 1990 Aug; 144(2 Pt 1):255–8; discussion 258–9

Experience with a detubularized right colonic segment for bladder replacement. Månsson W, et al. **Scand J Urol Nephrol** 1990;24(1):53–6

[Radical cystectomy for invasive tumors of the bladder in patients over 70 years of age] Jacqmin D, et al. **Ann Urol (Paris)** 1990;24(1):59–61 (Eng. Abstr.) **(Fre)**

[Surgical urinary bladder replacement in cancer] Sauter T, et al. **Fortschr Med** 1989 Sep 10;107(26):552–6 (Eng. Abstr.) **(Ger)**

[Continent urinary diversion in the elderly patient. Results with an ileum neobladder] Miller K, et al. **Urologe [A]** 1990 Mar;29(2):87–90 (Eng. Abstr.) **(Ger)**

[Technical characteristics of small-pelvic drainage through the obturator foramen] Larionova TA. **Vestn Khir** 1989 Nov;143(11):129–32 **(Rus)**

REHABILITATION

Continent sigmoid bladder after cystectomy: 20 years' experience. Novak R, et al. **Int Urol Nephrol** 1989; 21(6):609–15

Total replacement of the bladder with an intestinal pouch for normal micturition after cystectomy. Kakizoe T, et al. **Jpn J Clin Oncol** 1989 Sep;19(3):276–82

Radiologic evaluation of continent urinary reservoirs. Kenney PJ, et al. **Radiographics** 1990 May;10(3):455–66 (15 ref.)

STATISTICS & NUMERICAL DATA

[Consideration on transfusion in urologic surgery—a retrospective study on homologous and autologous transfusions] Ihara H, et al. **Hinyokika Kiyo** 1990 Jan; 36(1):27–33 (Eng. Abstr.) **(Jpn)**

CYSTEIC ACID see under **AMINO ACIDS, SULFUR**

CYSTEINAMINE see **CYSTEAMINE**

CYSTEINE

Fast atom bombardment and tandem mass spectrometry for structure determination of cysteine, N-acetylcysteine, and glutathione adducts of xenobiotics. Deterding LJ, et al. **Anal Biochem** 1989 Nov 15;183(1):94–107

Conjugation of synthetic peptides to proteins: quantitation from S-carboxymethylcysteine released upon acid hydrolysis. Kolodny N, et al. **Anal Biochem** 1990 May 15; 187(1):136–40

Sulfhydryl chemistry of Salmonella typhimurium phosphoribosylpyrophosphate synthetase: identification of two classes of cysteinyl residues. Harlow KW, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):466–72

Functional cysteinyl residues in human placental aldose reductase. Liu SQ, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):112–21

Substitution of an extracellular cysteine in the beta 2-adrenergic receptor enhances agonist-promoted phosphorylation and receptor desensitization. Liggett SB, et al. **Biochem Biophys Res Commun** 1989 Nov 30; 165(1):257–63

S-(N-methylcarbamoyl)glutathione: a reactive S-linked metabolite of methyl isocyanate. Pearson PG, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):245–50

The glutathione-binding site in glutathione S-transferases. Investigation of the cysteinyl, glycyl and gamma-glutamyl domains. Adang AE, et al. **Biochem J** 1990 Jul 1; 269(1):47–54

The accessibility of the thiol groups on G- and F-actin of rabbit muscle. Liu DF, et al. **Biochem J** 1990 Mar 1; 266(2):453–9

MgADP-induced changes in the structure of myosin S1 near the ATPase-related thiol SH1 probed by cross-linking. Rajasekharan KN, et al. **Biochemistry** 1990 Mar 27; 29(12):3006–13

Mutagenesis of the cysteines in the metalloregulatory protein MerR indicates that a metal-bridged dimer activates transcription. Shewchuk LM, et al. **Biochemistry** 1989 Jul 25;28(15):6140–5

Determination of cysteine on low-density lipoproteins using the fluorescent probe, 5-iodoacetamidofluoresceine. Coleman RD, et al. **Biochim Biophys Acta** 1990 Jan 19; 1037(1):129–32

What is the role of the cys-his motif in retroviral nucleocapsid (NC) proteins? Katz RA, et al. **Bioessays** 1989 Dec;11(6):176–81 (34 ref.)

High performance liquid chromatographic separation of cisplatin and its hydrolysis products on alumina and application to studies of their interaction with cysteine. Shearan P, et al. **Biomed Chromatogr** 1990 Mar;4(2):78–82

One- and two-dimensional proton NMR studies of cys-102 S-methylated yeast isozyme-1 ferricytochrome c. Busse SC, et al. **Biophys J** 1990 Jul;58(1):45–51

An arginine to cysteine amino acid substitution at a critical thrombin cleavage site in a dysfunctional factor VIII molecule. Shima M, et al. **Blood** 1989 Oct;74(5):1612–7

Evaluation of cysteine adduct formation in rat hemoglobin by 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone and related compounds. Carmella SG, et al. **Cancer Res** 1990 Sep 1;50(17):5453–9

Chromium cross-links glutathione and cysteine to DNA. Borges KM, et al. **Carcinogenesis** 1989 Nov;10(11):2165–8

The molecular characterization of PRP6 and PRP9 yeast genes reveals a new cysteine/histidine motif common to several splicing factors. Legrain P, et al. **EMBO J** 1990 Sep;9(9):2775–81

Modification of nuclear lamin proteins by a mevalonic acid derivative occurs in reticulocyte lysates and requires the cysteine residue of the C-terminal CXXM motif. Vorburger K, et al. **EMBO J** 1989 Dec 20;8(13):4007–13

Arrangement of disulfide bridges and positions of sulfhydryl groups in tetanus toxin. Krieglstein K, et al. **Eur J Biochem** 1990 Feb 22;188(1):39–45

Thiol-directed immobilization of recombinant IgG-binding receptors. Ljungquist C, et al. **Eur J Biochem** 1989 Dec 22;186(3):557–61

A point mutation in the tyrosinase gene of BALB/c albino mouse causing the cysteine——serine substitution at position 85. Shibahara S, et al. **Eur J Biochem** 1990 Apr 30;189(2):455–61

Use of the Npys thiol protection in solid phase peptide synthesis. Application to direct peptide-protein conjugation through cysteine residues. Albericio F, et al. **Int J Pept Protein Res** 1989 Aug;34(2):124–8

Labeling of human serum albumin with 105Rh-cysteine complexes. Lo JM, et al. **Int J Rad Appl Instrum [A]** 1990; 41(1):63–7

Assignment of the positions of chymotryptic fragments and cysteinyl groups in the primary structure of caldesmon in relation to a conformational change. Katayama E. **J Biochem (Tokyo)** 1989 Dec;106(6):988–93

The streptococcal flavoprotein NADH oxidase. I. Evidence linking NADH oxidase and NADH peroxidase cysteinyl redox centers. Ahmed SA, et al. **J Biol Chem** 1989 Nov 25;264(33):19856–63

Equilibrium denaturation of human growth hormone and its cysteine-modified forms. Brems DN, et al. **J Biol Chem** 1990 Apr 5;265(10):5504–11

Reactivity of cysteine 18 in oncomodulin. Clayshulte TM, et al. **J Biol Chem** 1990 Jan 25;265(3):1800–5

The human growth hormone receptor. Secretion from Escherichia coli and disulfide bonding pattern of the extracellular binding domain. Fuh G, et al. **J Biol Chem** 1990 Feb 25;265(6):3111–5

Xenopus transcription factor IIIA. Evidence for heterogeneity of Zn2+ binding affinities and specific labeling of cysteine 287. Han MK, et al. **J Biol Chem** 1990 Aug 15;265(23):13792–9

Identification of cysteine 530 as the covalent attachment site of an affinity-labeling estrogen (ketononestrol aziridine) and antiestrogen (tamoxifen aziridine) in the human estrogen receptor. Harlow KW, et al. **J Biol Chem** 1989 Oct 15;264(29):17476–85

Alkylation of cysteine 82 of p11 abolishes the complex formation with the tyrosine-protein kinase substrate p36 (annexin 2, calpactin 1, lipocortin 2). Johnsson N, et al. **J Biol Chem** 1990 Aug 25;265(24):14464–8

Role of cysteine residues in Pseudomonas mevalonii 3-hydroxy-3-methylglutaryl-CoA reductase. Site-directed mutagenesis and characterization of the mutant enzymes. Jordan-Starck TC, et al. **J Biol Chem** 1989 Oct 25;264(30):17919–23

The role of cysteine 41 in the enzymatic activities of the

pertussis toxin S1 subunit as investigated by site-directed mutagenesis. Locht C, et al. **J Biol Chem** 1990 Mar 15; 265(8):4552-9

Changes in crystallographic structure and thermostability of a Cu,Zn superoxide dismutase mutant resulting from the removal of a buried cysteine. McRee DE, et al. **J Biol Chem** 1990 Aug 25;265(24):14234-41

Selective molybdate-directed covalent modification of sulfhydryl groups in the steroid-binding versus the DNA-binding domain of the glucocorticoid receptor. Meshinchi S, et al. **J Biol Chem** 1990 Jul 15;265(20):11643-9

Beta protein C is not glycosylated at asparagine 329. The rate of translation may influence the frequency of usage at asparagine-X-cysteine sites. Miletich JP, et al. **J Biol Chem** 1990 Jul 5;265(19):11397-404

Cysteine labeling studies of beef heart aconitase containing a 4Fe, a cubane 3Fe, or a linear 3Fe cluster. Plank DW, et al. **J Biol Chem** 1989 Dec 5;264(34):20385-93

Chemical state of the cysteine residues in the Neurospora crassa plasma membrane H(+)-ATPase. Rao US, et al. **J Biol Chem** 1990 May 5;265(13):7227-35

Different combinations of cysteine-rich repeats mediate binding of low density lipoprotein receptor to two different proteins. Russell DW, et al. **J Biol Chem** 1989 Dec 25; 264(36):21682-8

Differential expression of a cysteine-rich domain in the amino-terminal propeptide of type II (cartilage) procollagen by alternative splicing of mRNA. Ryan MC, et al. **J Biol Chem** 1990 Jun 25;265(18):10334-9

Inhibition of actomyosin subfragment 1 ATPase activity by analog peptides of the actin-binding site around the Cys(SH1) of myosin heavy chain. Suzuki R, et al. **J Biol Chem** 1990 Mar 25;265(9):4939-43

Evidence for difference in the roles of two cysteine residues involved in disulfide bond formation in the folding of human lysozyme. Taniyama Y, et al. **J Biol Chem** 1990 May 5;265(13):7570-5

The N-terminal cysteine of human asparagine synthetase is essential for glutamine-dependent activity. Van Heeke G, et al. **J Biol Chem** 1989 Nov 25;264(33):19475-7

Dependence of formation of small disulfide loops in two-cysteine peptides on the number and types of intervening amino acids. Zhang RM, et al. **J Biol Chem** 1989 Nov 5;264(31):18472-9

The conserved carboxy-terminal cysteine of nuclear lamins is essential for lamin association with the nuclear envelope. Krohne G, et al. **J Cell Biol** 1989 Nov;109(5):2003-11

Neurite extension and neuronal survival activities of recombinant S100 beta proteins that differ in the content and position of cysteine residues. Winningham-Major F, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):3063-71

Preparation of heavy-atom derivatives using site-directed mutagenesis. Introduction of cysteine residues into gamma delta resolvase. Hatfull GF, et al. **J Mol Biol** 1989 Aug 20;208(4):661-7

Functional contribution of cysteine residues to the human immunodeficiency virus type 1 envelope. Tschachler E, et al. **J Virol** 1990 May;64(5):2250-9

Novel cysteine-rich motif and homeodomain in the product of the Caenorhabditis elegans cell lineage gene lin-11. Freyd G, et al. **Nature** 1990 Apr 26;344(6269):876-9

Chemical modification and characterization of the alpha cysteine 106 at the Vibrio harveyi luciferase active center. Paquatte O, et al. **Photochem Photobiol** 1989 Dec; 50(6):817-25

Cloning, expression, and purification of human cyclophilin in Escherichia coli and assessment of the catalytic role of cysteines by site-directed mutagenesis. Liu J, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2304-8

Coagulation factor XII (Hageman factor) Washington D.C.: inactive factor XIIa results from Cys-571——Ser substitution. Miyata T, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8319-22

The membrane binding domain of rod cGMP phosphodiesterase is posttranslationally modified by methyl esterification at a C-terminal cysteine. Ong OC, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9238-42

Multiple modes of activation of latent human fibroblast collagenase: evidence for the role of a Cys73 active-site zinc complex in latency and a "cysteine switch" mechanism for activation. Springman EB, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):364-8

Mutation of cysteine-88 in the Saccharomyces cerevisiae RAD6 protein abolishes its ubiquitin-conjugating activity and its various biological functions. Sung P, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2695-9

cDNA sequence analysis of a 29-kDa cysteine-rich surface antigen of pathogenic Entamoeba histolytica. Torian BE, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6358-62

The cysteine switch: a principle of regulation of metalloproteinase activity with potential applicability to the entire matrix metalloproteinase gene family. Van Wart HE, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(14):5578-82

Introduction of internal cysteines as conformational probes in yeast phosphoglycerate kinase. Ballery N, et al. **Protein Eng** 1990 Jan;3(3):199-204

ADMINISTRATION & DOSAGE

Reproduction and organ weight responses in female rats fed a restricted balanced diet or a restricted nonprotein calorie diet with or without supplemental glutamine or cysteine. Pond WG, et al. **Growth Dev Aging** 1989 Spring-Summer; 53(1-2):17-24

ANALOGS & DERIVATIVES

Excretion of 3-mercaptolactate-cysteine mixed disulfide, sulfate and taurine in human urine before and after oral administration of sulfur-containing amino acids. Yuasa S, et al. **Acta Med Okayama** 1990 Jun;44(3):117-22

Cysteine protease inhibitors with S-(3-nitro-2-pyridinesulfenyl)-cysteine residue in affinity analogs of peptide substrates. Matsueda R, et al. **Adv Exp Med Biol** 1989;247B:265-70

Differences in the effects of the antirheumatic drugs, bucillamine and D-penicillamine, on mitogen-induced proliferation of mouse spleen cells. Mita S, et al. **Agents Actions** 1990 Jun;30(3-4):363-8

Synthesis of L-cysteine derivatives of immunotropic activity. Kwapiszewski W, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1-2):29-35

New mixed disulfides of L-cysteine derivatives and of glutathione with diethyldithiocarbamic acid and 2-mercaptoethanesulfonic acid. Rajca A, et al. **Arzneimittelforschung** 1990 Mar;40(3):282-6

Thialysine utilization for protein synthesis by an exponentially growing E. coli culture. Di Girolamo M, et al. **Biochem Int** 1989 Dec;19(6):1195-203

Characterization of cysteine sulphinate transport by intact rat brain cerebrocortical synaptosome fractions. Grieve A, et al. **Biochem Soc Trans** 1990 Jun;18(3):426-7

Dissolution rate and in situ intestinal absorption kinetics of guanyl-cysteine. Barcia E, et al. **Boll Chim Farm** 1989 Oct; 128(10):303-9

Oncolytic activity and mechanism of action of a novel L-cysteine derivative, L-cysteine, ethyl ester, S-(N-methylcarbamate) monohydrochloride. Jayaram HN, et al. **Cancer Chemother Pharmacol** 1990;26(2):88-92

Cytotoxicity of S-(1,2,3,4,4-pentachlorobutadienyl)-L cysteine after apical and basolateral exposure of LLC-PK monolayers. Involvement of an amino acid transport system. Mertens JJ, et al. **Chem Biol Interact** 1990; 75(1):119-30

Assessment of S-(1,2-dichlorovinyl)-L-cysteine induced toxic events in rabbit renal cortical slices. Biochemical and histological evaluation of uptake, covalent binding, and toxicity. Wolfgang GH, et al. **Chem Biol Interact** 1990; 75(2):153-70

Solution-phase synthesis of porcine brain natriuretic peptide (pBNP) using S-trimethylacetamidomethylcysteine. Kiso Y, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1192-9

Inhibition of rat renal C-S lyase: assessment using kidney slice methodology. Blagbrough IS, et al. **Drug Metabol Drug Interact** 1988;6(3-4):303-16

HPLC-analysis of S-carboxymethylcysteine and its sulphoxide metabolites. Brockmöller J, et al. **Drug Metabol Drug Interact** 1988;6(3-4):447-56

DNA-binding of sulfur-containing metabolites from 35S-(pentachlorobutadienyl)-L-cysteine in bacteria and isolated renal tubular cells. Vamvakas S, et al. **Drug Metabol Drug Interact** 1988;6(3-4):349-58

Pharmacogenetics of the S-oxidation of S-carboxymethyl-L-cysteine. Waring RH. **Drug Metabol Drug Interact** 1988;6(3-4):253-63 (19 ref.)

Oral N-acetylcysteine or S-carboxymethylcysteine inhibit cigarette smoke-induced hypersecretion of mucus in rat larynx and trachea in situ. Rogers DF, et al. **Eur Respir J** 1989 Nov;2(10):955-60

Comparative platelet anti-aggregant activity of D-cysteinolic acid analogues. Sataka M, et al. **Experientia** 1989 Dec 1;45(11-12):1110-2

Biological exposure monitoring of methyl bromide workers by determination of hemoglobin adducts. Iwasaki K, et al. **Ind Health** 1989;27(4):181-3

A case of bullous pemphigoid induced by tiobutarit (D-penicillamine analogue). Yamaguchi R, et al. **J Dermatol** 1989 Aug;16(4):308-11

Quantitative investigation of copper(II) and zinc(II) complexes with S-carboxymethyl-L-cysteine and computer-simulated appraisal of their potential significance in vivo. Brumas V, et al. **J Inorg Biochem** 1989 Dec; 37(4):309-23

Model systems for the evaluation of mucolytic drugs: acetylcysteine and S-carboxymethylcysteine. Livingstone CR, et al. **J Pharm Pharmacol** 1990 Feb;42(2):73-8

Effect of cysteine ethylester hydrochloride (Cystanin) on host defense mechanisms (V): Potentiation of nitroblue tetrazolium reduction and chemiluminescence in macrophages or leukocytes of mice or rats. Hisadome M, et al. **Jpn J Pharmacol** 1990 May;53(1):57-66

False positives with current carbocisteine protocol for sulphoxidation phenotyping [letter] [see comments] Küpfer A, et al. **Lancet** 1990 May 5;335(8697):1107 Comment in: Lancet 1990 Jun 23;335(8704):1527.

Polymorphic sulphoxidation of carbocisteine [letter] Meese CO, et al. **Lancet** 1990 Sep 15;336(8716):693-4

Carbocisteine sulphoxidation phenotype [letter; comment] Waring RH, et al. **Lancet** 1990 Jun 23;335(8704):1527 Comment on: Lancet 1990 May 5;335(8697):1107.

Selenocysteine tRNA[Ser]Sec gene is ubiquitous within the animal kingdom. Lee BJ, et al. **Mol Cell Biol** 1990 May; 10(5):1940-9

Effects of sulfhydryl-modifying reagents, 3-nitro-2-pyridinesulfenyl compounds, on the coupling between inhibitory receptors and GTP-binding proteins Gi/Go in rat brain membranes. Kitamura Y, et al. **Mol Pharmacol** 1990 Aug;38(2):184-91

Vasorelaxant properties of the endothelium-derived relaxing factor more closely resemble S-nitrosocysteine than nitric oxide. Myers PR, et al. **Nature** 1990 May 10; 345(6271):161-3

Brain G protein gamma subunits contain an all-trans-geranylgeranylcysteine methyl ester at their carboxyl termini. Yamane HK, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5868-72

Features of the formate dehydrogenase mRNA necessary for decoding of the UGA codon as selenocysteine. Zinoni F, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4660-4

Regulation of protein binding from 35S-(pentachlorobutadienyl)-L-cysteine in renal epithelial cells and mitochondria. Wallin A. **Res Commun Chem Pathol Pharmacol** 1989 Dec; 66(3):461-76

Acute acrylonitrile toxicity: studies on the mechanism of the antidotal effect of D- and L-cysteine and their N-acetyl derivatives in the rat. Benz FW, et al. **Toxicol Appl Pharmacol** 1990 Jan;102(1):142-50

The effect of haloalkene cysteine conjugates on rat renal glutathione reductase and lipoyl dehydrogenase activities. Lock EA, et al. **Toxicol Appl Pharmacol** 1990 Jun 1; 104(1):180-90

Transplacental passage and fetal kidney binding of 14C-dichlorovinyl cysteine (DCVC) in mice. Darnerud PO, et al. **Toxicol Lett** 1990 Jun;52(1):63-72

[Mutants of Bacillus subtilis resistant to lysine analog S-2 aminoethyl-L-cysteine] Shevchenko TN, et al. **Genetika** 1989 Nov;25(11):1937-45 (Eng. Abstr.) (Rus)

[Mucoregulators: specificity of carbocysteine] Beleslin DB. **Srp Arh Celok Lek** 1989 May-Jun;117(5-6):371-7 (Scc)

ANALYSIS

Reduction and fluorescent labeling of cyst(e)ine-containing proteins for subsequent structural analyses. Kirley TL. **Anal Biochem** 1989 Aug 1;180(2):231-6

Histochemical localization of cysteine-rich proteins by tissue printing on nitrocellulose. Pont-Lezica RF, et al. **Anal Biochem** 1989 Nov 1;182(2):334-7

Characterization of the cysteine residues and disulphide linkages in the protein crystal of Bacillus thuringiensis. Bietlot HP, et al. **Biochem J** 1990 Apr 15;267(2):309-15

Structural studies on transmembrane proteins. 2. Spin labeling of bacteriorhodopsin mutants at unique cysteines. Altenbach C, et al. **Biochemistry** 1989 Sep 19; 28(19):7806-12

H3 Cys-110 is in close proximity to the C-terminal regions of H2B and H4 in a nucleosome core with an altered internal arrangement of histones. Kahr WH, et al. **Biochemistry** 1990 Jun 19;29(24):5821-9

Structural studies of the contractile tail sheath protein of bacteriophage T4. 1. Conformational change of the tail sheath upon contraction as probed by differential chemical modification. Takeda S, et al. **Biochemistry** 1990 May 29; 29(21):5050-6

Determination of reduced disulfide groups in monoclonal antibodies. Thakur ML, et al. **Biotechniques** 1990 May; 8(5):512-6

Glutathione and cysteine levels in human tumour biopsies. Guichard M, et al. **Br J Radiol** 1990 Jul;63(751):557-61

Occurrence of S-(1,2-dicarboxyethyl)-cysteine at position 77 in mutant human lysozyme secreted by Saccharomyces cerevisiae. Kikuchi M, et al. **Eur J Biochem** 1990 Jan 26; 187(2):315-20

The gamma subunit of brain G-proteins is methyl esterified at a C-terminal cysteine. Fung BK, et al. **FEBS Lett** 1990 Jan 29;260(2):313-7

Anomalous cysteine in type I collagen. Localisation by chemical cleavage of the protein using 2-nitro-5-thiocyanobenzoic acid and by mismatch analysis of cDNA heteroduplexes. Tenni R, et al. **Matrix** 1990 Mar; 10(1):20-6

Characterization of a human cDNA encoding a widely expressed and highly conserved cysteine-rich protein with an unusual zinc-finger motif. Liebhaber SA, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3871-9

The nucleotide sequence of the 60 kDa cysteine rich outer membrane protein of Chlamydia pneumoniae strain IOL-207. Watson MW, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5299

The nucleotide sequence of the 60 kDa cysteine rich outer membrane protein of Chlamydia psittaci strain EAE/A22/M. Watson MW, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5300

BIOSYNTHESIS

Structure and expression of cysX, the second gene in the Escherichia coli K-12 cysE locus. Tei H, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):948-55

Molecular cloning of the cys genes (cysC, cysD, cysH, cysI, cysJ, and cysG) responsible for cysteine biosynthesis in Escherichia coli K-12. Tei H, et al. **Biotechnol Appl Biochem** 1990 Apr;12(2):212-6

BLOOD

Hypercysteinemia and delayed sulfur excretion in cirrhotics after oral cysteine loads. Tribble DL, et al.

Am J Clin Nutr 1989 Dec;50(6):1401–6
Sample processing alters glutathione and cysteine values in blood. Mills BJ, et al. **Anal Biochem** 1990 Feb 1; 184(2):263–7
Plasma cysteine and sulphate levels in patients with motor neurone, Parkinson's and Alzheimer's disease. Heafield MT, et al. **Neurosci Lett** 1990 Mar 2;110(1–2):216–20

DEFICIENCY

Effect of sulfhydryl-deficient diets on hepatic metallothionein, glutathione, and adenosine 3'-phosphate 5'-phosphosulfate (PAPS) levels in rats. Sendelbach LE, et al. **Toxicol Appl Pharmacol** 1990 Feb;102(2):259–67

GENETICS

Site-directed mutagenesis of glycine-14 and two "critical" cysteinyl residues in Drosophila alcohol dehydrogenase. Chen Z, et al. **Biochemistry** 1990 Feb 6;29(5):1112–8
Active site of mercuric reductase resides at the subunit interface and requires Cys135 and Cys140 from one subunit and Cys558 and Cys559 from the adjacent subunit: evidence from in vivo and in vitro heterodimer formation. Distefano MD, et al. **Biochemistry** 1990 Mar 20;29(11):2703–13
Structural studies on transmembrane proteins. 1. Model study using bacteriorhodopsin mutants containing single cysteine residues. Flitsch SL, et al. **Biochemistry** 1989 Sep 19; 28(19):7800–5
Disruption of a rhodaneselike gene results in cysteine auxotrophy in Saccharopolyspora erythraea. Donadio S, et al. **J Bacteriol** 1990 Jan;172(1):350–60
Serine to cysteine substitutions in trp repressor protein alter tryptophan and operator binding. Chou WY, et al. **J Biol Chem** 1989 Nov 5;264(31):18314–9
Osteogenesis imperfecta. The position of substitution for glycine by cysteine in the triple helical domain of the pro alpha 1(I) chains of type I collagen determines the clinical phenotype. Starman BJ, et al. **J Clin Invest** 1989 Oct; 84(4):1206–14

IMMUNOLOGY

Immunochemistry of the dominating antigenic region Ala582 to Cys604 in the transmembranous protein of simian and human immunodeficiency virus. Norrby E, et al. **J Immunol** 1989 Dec 1;143(11):3602–8

METABOLISM

Formation of sulfate from L-cysteine in rat liver mitochondria. Ubuka T, et al. **Acta Med Okayama** 1990 Apr;44(2):55–64
Sulfate and taurine excretion in rats after L-cysteine administration. Yoshida S, et al. **Acta Med Okayama** 1989 Oct;43(5):281–8
Effect of bathocuproine disulfonate, a copper chelator, on cyst(e)ine metabolism by freshly isolated rat hepatocytes. Coloso RM, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E443–50
Reaction of thiol groups of gizzard myosin heavy chains with 7-chloro-4-nitrobenzo-2-oxa-1,3-diazole. Bailin G, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):6–12
Calcium- and cysteine-participatory oxidative formation of albumin-copper complex. Suzuki KT, et al. **Arch Biochem Biophys** 1990 Apr;278(1):120–4
Cysteine-108 is an acylation site in myelin proteolipid protein. Bizzozero OA, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):375–82
Correlation of loss of activity of human aldehyde dehydrogenase with reaction of bromoacetophenone with glutamic acid-268 and cysteine-302 residues. Partial-sites reactivity of aldehyde dehydrogenase. Abriola DP, et al. **Biochem J** 1990 Feb 15;266(1):179–87
Role of cysteine and taurine in regulating glutathione synthesis by periportal and perivenous hepatocytes. Penttilä KE. **Biochem J** 1990 Aug 1;269(3):659–64
Immunochemical quantitation of 3-(cystein-S-yl)acetaminophen protein adducts in subcellular liver fractions following a hepatotoxic dose of acetaminophen. Pumford NR, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):573–9
Role of extracellular disulfide-bonded cysteines in the ligand binding function of the beta 2-adrenergic receptor. Dohlman HG, et al. **Biochemistry** 1990 Mar 6;29(9):2335–42
Introduction of a cysteine protease active site into trypsin. Higaki JN, et al. **Biochemistry** 1989 Nov 28;28(24):9256–63
Crystal structures of two engineered thiol trypsins. McGrath ME, et al. **Biochemistry** 1989 Nov 28;28(24):9264–70
Covalent modification of a critical sulfhydryl group in the acetylcholine receptor: cysteine-222 of the alpha-subunit. Marquez J, et al. **Biochemistry** 1989 Sep 5;28(18):7433–9
Cysteinyl peptide labeled by 3-bromo-2-ketoglutarate in the active site of pig heart NAD+-dependent isocitrate dehydrogenase. Saha A, et al. **Biochemistry** 1989 Oct 17; 28(21):8425–31
A urinary cysteine-halothane metabolite: validation and measurement in children. Wark H, et al. **Br J Anaesth** 1990 Apr;64(4):469–73
The biochemistry of endogenous organosulphur compounds. James SP. **Drug Metabol Drug Interact** 1988;6(3–4):167–82 (53 ref.)
Study of the fast-reacting cysteines in phosphoglycerate kinase using chemical modification and site-directed mutagenesis. Minard P, et al. **Eur J Biochem** 1989 Nov 6;185(2):419–23
Increase in intracellular cysteine after exposure to dithiothreitol: implications in radiobiology. Dennis MF, et al. **Int J Radiat Biol** 1989 Dec;56(6):877–83
In vitro interactions of CysB protein with the cysJIH promoter of Salmonella typhimurium: inhibitory effects of sulfide. Ostrowski J, et al. **J Bacteriol** 1990 Feb; 172(2):779–85
Identification of the reactive cysteinyl residue and ATP binding site in Bacillus cereus glutamine synthetase by chemical modification. Nakano Y, et al. **J Biochem (Tokyo)** 1990 Feb;107(2):180–3
Modification of plasma membrane protein cysteine residues by ADP-ribose in vivo. Jacobson MK, et al. **J Biol Chem** 1990 Jul 5;265(19):10825–8
Production of hydrogen sulphide in milkfat-coated microcapsules containing Brevibacterium linens and cysteine. Kim SC, et al. **J Microencapsul** 1989 Oct–Dec; 6(4):501–13
Transport into brain of albumin-bound amino acids [letter; comment] Rassin DK. **J Neurochem** 1990 Aug;55(2):722 Comment on: J Neurochem 1990 Mar;54(3):971–6.
L-2-oxothiazolidine-4-carboxylate as a cysteine precursor: efficacy for growth and hepatic glutathione synthesis in chicks and rats. Chung TK, et al. **J Nutr** 1990 Feb; 120(2):158–65
Metabolism of cyst(e)ine in rat enterocytes. Coloso RM, et al. **J Nutr** 1989 Dec;119(12):1914–24
Role of the transsulfuration pathway and of gamma-cystathionase activity in the formation of cysteine and sulfate from methionine in rat hepatocytes. Rao AM, et al. **J Nutr** 1990 Aug;120(8):837–45
Catabolism of cyst(e)ine by rat renal cortical tubules. Stipanuk MH, et al. **J Nutr** 1990 May;120(5):450–8
Cysteine S-conjugates may act as kidney-selective prodrugs: formation of 6-mercaptopurine by the renal metabolism of S-(6-purinyl)-L-cysteine. Hwang IY, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):448–54
N-acetyl-L-tyrosine and N-acetyl-L-cysteine as tyrosine and cysteine precursors during intravenous infusion in humans. Magnusson I, et al. **Metabolism** 1989 Oct; 38(10):957–61
Bioactivation of the cysteine-S-conjugate and mercapturic acid of tetrafluoroethylene to acylating reactive intermediates in the rat: dependence of activation and deactivation activities on acetyl coenzyme A availability. Commandeur JN, et al. **Mol Pharmacol** 1989 Oct; 36(4):654–63
Cysteine conjugate toxicity, metabolism, and binding to macromolecules in isolated rat kidney mitochondria. Hayden PJ, et al. **Mol Pharmacol** 1990 Mar;37(3):468–76
Extent of N-terminal methionine excision from Escherichia coli proteins is governed by the side-chain length of the penultimate amino acid. Hirel PH, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8247–51
GAL4 transcription factor is not a "zinc finger" but forms a Zn(II)2Cys6 binuclear cluster. Pan T, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2077–81

PHARMACOKINETICS

Tissue contents and urinary excretion of taurine after administration of L-cysteine and L-2-oxothiazolidine-4-carboxylate to rats. Taguchi T, et al. **Acta Med Okayama** 1990 Jun;44(3):123–8
Cysteine-induced changes of low molecular sulfhydryl/disulfide ratio in rat lymphoid cells. Krzystyniak K, et al. **Arch Immunol Ther Exp (Warsz)** 1989; 37(1–2):37–47
A cysteine-specific lysosomal transport system provides a major route for the delivery of thiol to human fibroblast lysosomes: possible role in supporting lysosomal proteolysis. Pisoni RL, et al. **J Cell Biol** 1990 Feb; 110(2):327–35
Availability of cysteine and of L-2-oxo-thiazolidine-4-carboxylic acid as a source of cysteine in intravenous nutrition. Bjelton L, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):177–82

PHARMACOLOGY

Effect of cysteine on the inactivation of cystathionine gamma-lyase by D,L-propargylglycine. Awata S, et al. **Acta Med Okayama** 1989 Dec;43(6):329–35
Determination of hypotaurine and taurine in blood plasma of rats after the administration of L-cysteine. Yuasa S, et al. **Acta Med Okayama** 1990 Feb;44(1):47–50
Inhibition of mitogen-activated proliferation of human lymphocytes by hypochlorous acid in vitro: protection and reversal by ascorbate and cysteine. Smit MJ, et al. **Agents Actions** 1990 Jun;30(3–4):338–43
Stimulation of mucosal uptake of selenite by selenite by L-cysteine in sheep small intestine. Würmli R, et al. **Biol Trace Elem Res** 1989 Apr–May;20(1–2):75–85
Powerful anti-sperm motility action of cobaltous ion and its recovery by a sulfhydryl compound. Kumar GP, et al. **Contraception** 1990 Jun;41(6):633–9
Effects of cysteine isomers and derivatives on acute acrylonitrile toxicity. Nerland DE, et al. **Drug Metab Rev** 1989;20(2–4):233–46 (53 ref.)
Intensification of tumor affinity of 99mTc-DL-homocysteine by cooperative use of SH-containing compounds. Takeda A, et al. **Int J Rad Appl Instrum [B]** 1989;16(6):581–5
A sulfur- and tyramine-regulated Klebsiella aerogenes operon containing the arylsulfatase (atsA) gene and the atsB gene. Murooka Y, et al. **J Bacteriol** 1990 Apr; 172(4):2131–40
Influence of cysteamine and cysteine on open-field behaviour, and on brain concentrations of catecholamines, somatostatin, neuropeptide Y, and corticotropin releasing hormone in the rat. Vécsei L, et al. **J Neural Transm Gen Sect** 1989;78(3):209–20
Experimental studies on the acute cardiovascular toxicity of formalin and its antidotal treatment. Strubelt O, et al. **J Toxicol Clin Toxicol** 1990;28(2):221–33
Effect of cystine loading on substrate oxidation by rat renal tubules. Foreman JW, et al. **Pediatr Nephrol** 1990 May; 4(3):236–9
The interaction between ethanol and cysteine on the central depressant effects of ethanol in mice. Ferko AP. **Pharmacol Biochem Behav** 1990 Jul;36(3):619–24
Zinc uptake by isolated rat enterocytes: effect of low molecular weight ligands. Raffaniello RD, et al. **Proc Soc Exp Biol Med** 1989 Dec;192(3):219–24
Irradiation of rats abolishes susceptibility of PGI2 synthesis in blood vessels to peroxidative agents. Sochanowicz B, et al. **Prostaglandins** 1990 Mar;39(3):287–98

PHYSIOLOGY

Cystein 402 of HIV gp 120 is essential for CD4-binding and resistance of gp 120 to intracellular degradation. Hemming A, et al. **Arch Virol** 1989;109(3–4):269–76
Macrophages regulate intracellular glutathione levels of lymphocytes. Evidence for an immunoregulatory role of cysteine. Gmünder H, et al. **Cell Immunol** 1990 Aug; 129(1):32–46
The role of protein-thiol mixed disulfides in cataractogenesis. Lou MF, et al. **Exp Eye Res** 1990 Jun;50(6):819–26
Critical spacing between two essential cysteine residues in the interdomain linker of the Bradyrhizobium japonicum NifA protein. Fischer HM, et al. **FEBS Lett** 1989 Sep 11; 255(1):167–71

RADIATION EFFECTS

An ESR study of radical kinetics in L-alpha-amino-n-butyric acid hydrochloride containing L-cysteine hydrochloride. Shattuck MD, et al. **Radiat Res** 1989 Dec;120(3):430–41

THERAPEUTIC USE

Treatment of dermatitis caused by the sesquiterpene lactone helenin. Picman J, et al. **Pharmazie** 1990 Jan;45(1):57–9
Acute acrylonitrile toxicity: studies on the mechanism of the antidotal effect of D- and L-cysteine and their N-acetyl derivatives in the rat. Benz FW, et al. **Toxicol Appl Pharmacol** 1990 Jan;102(1):142–50

TOXICITY

Toxicity of the cysteine-S-conjugates and mercapturic acids of four structurally related difluoroethylenes in isolated proximal tubular cells from rat kidney. Uptake of the conjugates and activation to toxic metabolites. Boogaard PJ, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3731–41
Mutagenicity and antimutagenicity of thiols towards active oxygen species [letter] De Flora S. **Mutagenesis** 1990 May; 5(3):301–2
Mutagenicity experiments on L-cysteine and D-penicillamine using V79 cells as indicators and for metabolic activation. Glatt H, et al. **Mutat Res** 1990 Mar; 243(3):187–93
L-cysteine, a bicarbonate-sensitive endogenous excitotoxin. Olney JW, et al. **Science** 1990 May 4;248(4955):596–9

CYSTEINE ENDOPEPTIDASES see **CYSTEINE PROTEINASES**

CYSTEINE PROTEASE INHIBITORS see **CYSTEINE PROTEINASE INHIBITORS**

CYSTEINE PROTEASES see **CYSTEINE PROTEINASES**

CYSTEINE PROTEINASE ANTAGONISTS see **CYSTEINE PROTEINASE INHIBITORS**

CYSTEINE PROTEINASE INHIBITORS

Potentiation of cysteine proteinase-inhibitor activity of full-length Ha-ras oncogene products by denaturation-renaturation. Hiwasa T, et al. **Biochem Int** 1989 Sep;19(3):593–601
Cysteine proteinase-inhibitory activity of ras gene product is not affected by mutations at GTPase-activating protein-binding sites. Hiwasa T, et al. **Biol Chem Hoppe Seyler** 1989 Nov;370(11):1215–20
[Roles of calpain and calpastatin in cellular functions] Murachi T. **Tanpakushitsu Kakusan Koso** 1988 Sep; 33(12):2193–206 **(Jpn)**

ANALYSIS

Low molecular mass protein inhibitor of cysteine proteinases from soybean. Brzin J, et al. **Biol Chem Hoppe Seyler** 1990

May;371 Suppl:167–70
Cathepsin B to cysteine proteinase inhibitor balance in metastatic cell subpopulations isolated from murine tumors. Rozhin J, et al. **Cancer Res** 1990 Oct 1;50(19):6278–84
Crystal structure and molecular conformation of E–64, a cysteine protease inhibitor. Yamamoto D, et al. **Chem Pharm Bull (Tokyo)** 1989 Oct;37(10):2577–81

BLOOD

Characterization of an SH–proteinase inhibitor from Bothrops jararaca plasma. Chudzinski AM, et al. **Adv Exp Med Biol** 1989;247B:337–42
A Bothrops jararaca plasma cysteine–proteinase inhibitor related to mammalian kininogen. Chudzinski AM, et al. **Braz J Med Biol Res** 1989;22(8):945–8
Primary structure of a new cysteine proteinase inhibitor from pig leucocytes. Ritonja A, et al. **FEBS Lett** 1989 Sep 25; 255(2):211–4
High–performance liquid chromatographic determination of a cysteine protease inhibitor and its ethyl ester in mouse serum and muscle by pre–column fluorescence derivatization. Chao WF, et al. **J Chromatogr** 1990 Mar 16;526(1):77–86

CHEMICAL SYNTHESIS

Synthesis of cysteine proteinase inhibitors structurally based on the proteinase interacting N–terminal region of human cystatin C. Grubb A, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:137–44

ISOLATION & PURIFICATION

Multiple forms of calpastatin in pig brain. Takano E, et al. **Biochem Int** 1989 Sep;19(3):633–43
A new type of low–molecular mass cysteine proteinase inhibitor from pig leukocytes. Kopitar M, et al. **Biol Chem Hoppe Seyler** 1989 Oct;370(10):1145–51
Properties and nature of a cysteine proteinase inhibitor located in keratohyalin granules of rat epidermis. Takahashi M, et al. **FEBS Lett** 1990 Jul 16;267(2):261–4
Isolation and characterization of new thiol protease inhibitors estatins A and B. Yaginuma S, et al. **J Antibiot (Tokyo)** 1989 Sep;42(9):1362–9
Comparison of a salivary 14 kD protein displaying cysteine proteinase inhibitory activity with other salivary cystatins. Rathman WM, et al. **J Biol Buccale** 1990 Mar;18(1):9–18
Cysteine proteinase inhibitor in the ascitic fluid of sarcoma 180 tumor–bearing mice is a low molecular weight kininogen. Partial NH2– and COOH–terminal sequences and susceptibility to various glandular kallikreins. Sueyoshi T, et al. **J Biol Chem** 1990 Jun 15;265(17):10030–5

METABOLISM

Demonstration of cysteine proteinase inhibitors ACPI and NCPI in breast cancer and in cell lines MCF–7 and ZR–75–1. Kolář Z, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:137–42
Identification of cystatin C, a cysteine proteinase inhibitor, as a major secretory product of human alveolar macrophages in vitro. Chapman HA Jr, et al. **Am Rev Respir Dis** 1990 Mar;141(3):698–705
A comparison between the binding modes of a substrate and inhibitor to papain as observed in complex crystal structures. Yamamoto D, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):711–6
Cysteine proteinase inhibitors in human cancerous tissues and fluids. Lah TT, et al. **Biol Chem Hoppe Seyler** 1990 May; 371 Suppl:199–203
Role for cathepsin B and cystatins in tumor growth and progression. Sloane BF, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:193–8
Tissue and biological fluid distribution of cysteine proteinases inhibitor: rat cystatin C. Tavéra C, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:187–92
Thiol protease–thiol protease inhibitor imbalance in cardiac tissue of ageing cardiomyopathic hamsters. Warner AH, et al. **J Mol Cell Cardiol** 1990 May;22(5):577–86
Cathepsin B and cysteine protease inhibitors in human osteoarthritis. Martel–Pelletier J, et al. **J Orthop Res** 1990 May;8(3):336–44
[Calpain and calpastatin] Murachi T. **Rinsho Byori** 1990 Apr; 38(4):337–46 (25 ref.) (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Effects of cysteine protease inhibitors on rabbit cathepsin D maturation. Samarel AM, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 1):C1069–79
Ubiquitin–protein conjugates accumulate in the lysosomal system of fibroblasts treated with cysteine proteinase inhibitors. Doherty FJ, et al. **Biochem J** 1989 Oct 1; 263(1):47–55
Effects of the calpain inhibitor E64–d on platelet activation responses. Patel Y, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:846P
Cysteine proteinase inhibitors and ras gene products share the same biological activities including transforming activity toward NIH3T3 mouse fibroblasts and the differentiation–inducing activity toward PC12 rat pheochromocytoma cells. Hiwasa T, et al. **Carcinogenesis** 1990 Jan;11(1):75–80
Insoluble disulfide cross–linked polypeptides accumulate in the functionally compromised lysosomes of fibroblasts treated with the cysteine protease inhibitor E–64. Doherty FJ, et al. **Exp Cell Res** 1989 Dec;185(2):506–18
Inhibition of cysteine proteinases by a protein inhibitor from potato. Rowan AD, et al. **FEBS Lett** 1990 Sep 3; 269(2):328–30
Neutrophil chemotactic activity is modulated by human cystatin C, an inhibitor of cysteine proteases. Leung–Tack J, et al. **Inflammation** 1990 Jun;14(3):247–58
Thiolprotease inhibitor, EST, can inhibit thrombin–induced platelet activation. Ishii H, et al. **Thromb Res** 1990 Mar 15;57(6):847–61

TOXICITY

Teratogenic effects of combined use of anti–kidney serum and E–64 in the rat. Chen SF. **Acta Paediatr Jpn Overseas Ed** 1989 Dec;31(6):685–9
An epoxysuccinic acid derivative(loxistatin)–induced hepatic injury in rats and hamsters. Fukushima K, et al. **Toxicol Appl Pharmacol** 1990 Aug;105(1):1–12

CYSTEINE PROTEINASE INHIBITORS, ENDOGENOUS
see **CYSTEINE PROTEINASE INHIBITORS**

CYSTEINE PROTEINASE INHIBITORS, EXOGENOUS
see **CYSTEINE PROTEINASE INHIBITORS**

CYSTEINE PROTEINASES

Amino acid and carbohydrate composition of a lysosomal cysteine proteinase from Trypanosoma cruzi. Absence of phosphorylated mannose residues. Cazzulo JJ, et al. **Mol Biochem Parasitol** 1990 Jan 1;38(1):41–8
Cysteine or serine proteinase? [letter] **Nature** 1989 Nov 9; 342(6246):132
Thaumatin not proteolytic [letter] Beynon R, et al. **Nature** 1990 Apr 5;344(6266):498
The multicatalytic proteinase complex. Rivett AJ. **Revis Biol Celular** 1989;20:113–23 (45 ref.)

ANALYSIS

The use of benzyloxycarbonyl[125I]iodotyrosylalanyldiazomethane as a probe for active cysteine proteinases in human tissues. Mason RW, et al. **Biochem J** 1989 Nov 1;263(3):945–9
The cysteine proteinases of the pineapple plant. Rowan AD, et al. **Biochem J** 1990 Mar 15;266(3):869–75
Proteasomes (multicatalytic proteinase complexes) in eukaryotic cells. Tanaka K, et al. **Cell Struct Funct** 1990 Jun;15(3):127–32 (34 ref.)
The NH2–terminal residues of rat liver proteasome (multicatalytic proteinase complex) subunits, C2, C3 and C8, are N alpha–acetylated. Tokunaga F, et al. **FEBS Lett** 1990 Apr 24;263(2):373–5
Comparisons of four methods for quantification of lysosomal cysteine proteinase activities. Koohmaraie M, et al. **J Anim Sci** 1990 Aug;68(8):2362–70
Properties of pteroylpolyglutamate hydrolase in pancreatic juice of the pig. Bhandari SD, et al. **J Nutr** 1990 May; 120(5):467–75
X–ray film digestion: a semi–quantitative assay for proteolytic enzymes used in immunohaematology. Giles JM, et al. **Med Lab Sci** 1990 Jul;47(3):195–8
Procoagulant activity of human stomach and colon cancers. Mielicki W, et al. **Oncology** 1990;47(4):299–302
Schistosoma mansoni: localization of the 28 kDa secreted protease in cercaria. Marikovsky M, et al. **Parasite Immunol** 1990 Jul;12(4):389–401
[Activity of procoagulant and fibrinolysis in homogenate of leukemic cells] Wada H, et al. **Rinsho Ketsueki** 1989 Oct; 30(10):1783–7 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Cysteine protease inhibitors with S–(3–nitro–2–pyridinesulfenyl)–cysteine residue in affinity analogs of peptide substrates. Matsueda R, et al. **Adv Exp Med Biol** 1989;247B:265–70
Inhibition by selected food components of human and porcine intestinal pteroylpolyglutamate hydrolase activity. Bhandari SD, et al. **Am J Clin Nutr** 1990 Jan;51(1):87–94
Immunochemical quantitation of cysteine proteinase inhibitor cystatin C in inflamed human gingiva. Skalerič U, et al. **Arch Oral Biol** 1989;34(4):301–5
Potent and selective inactivation of cysteine proteinases with N–peptidyl–O–acyl hydroxylamines. Brömme D, et al. **Biochem J** 1989 Nov 1;263(3):861–6
Mutations in the QVVAG region of the cysteine proteinase inhibitor stefin B. Jerala R, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:157–60
Inactivation and clearance of an anti–CEA carboxypeptidase G2 conjugate in blood after localisation in a xenograft model. Sharma SK, et al. **Br J Cancer** 1990 May; 61(5):659–62
Purification and characterization of inhibitor against the cysteine proteinase of Rana catesbeiana. Fujita S, et al. **Comp Biochem Physiol [B]** 1990;95(4):691–7
Interactions of papaya proteinase IV with inhibitors. Buttle DJ, et al. **FEBS Lett** 1990 Mar 12;262(1):58–60
Two distinct cystatin species in rice seeds with different specificities against cysteine proteinases. Molecular cloning, expression, and biochemical studies on oryzacystatin–II. Kondo H, et al. **J Biol Chem** 1990 Sep 15;265(26):15832–7
Recent developments in inhibiting cysteine and serine proteases. Demuth HU. **J Enzym Inhib** 1990;3(4):249–78 (319 ref.)
A rapid' two–step purification of rat cystatin C, one major inhibitor of cysteine proteinases. Tavera C, et al. **Prep Biochem** 1989;19(4):279–91

BIOSYNTHESIS

Entamoeba histolytica: correlation of the cytopathic effect of virulent trophozoites with secretion of a cysteine proteinase. Keene WE, et al. **Exp Parasitol** 1990 Aug; 71(2):199–206
Lysis of erythrocytes by the secreted cysteine proteinase of Porphyromonas gingivalis W83. Shah HN, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1–2):213–7
Thiol proteinase expression and pathogenicity of Entamoeba histolytica. Reed SL, et al. **J Clin Microbiol** 1989 Dec; 27(12):2772–7
Inducible expression of encephalomyocarditis virus 3C protease activity in stably transformed mouse cell lines. Lawson TG, et al. **J Virol** 1989 Dec;63(12):5013–22

BLOOD

Interaction of human erythrocyte multicatalytic proteinase with polycations. Mellgren RL. **Biochim Biophys Acta** 1990 Aug 1;1040(1):28–34
An enzyme–linked immunosorbent assay for cancer procoagulant and its potential as a new tumor marker. Gordon SG, et al. **Cancer Res** 1990 Oct 1;50(19):6229–34
Macroxyproteinase (M.O.P.): a 670 kDa proteinase complex that degrades oxidatively denatured proteins in red blood cells [published erratum appears in Free Radic Biol Med 1990;8(2):211–2] Pacifici RE, et al. **Free Radic Biol Med** 1989;7(5):521–36
Cancer procoagulant in serum of rats during development of experimental epithelioma. Mielicki W, et al. **Int J Cancer** 1990 Jan 15;45(1):125–6
The proteasome (multicatalytic protease) is a component of the 1500–kDa proteolytic complex which degrades ubiquitin–conjugated proteins. Driscoll J, et al. **J Biol Chem** 1990 Mar 25;265(9):4789–92
Analysis of serum cancer procoagulant activity and its possible use as a tumor marker. Gordon SG, et al. **Thromb Res** 1989 Nov 1;56(3):431–40

GENETICS

Definition of the complete Schistosoma mansoni hemoglobinase mRNA sequence and gene expression in developing parasites. el Meanawy MA, et al. **Am J Trop Med Hyg** 1990 Jul;43(1):67–78
cDNA cloning and sequencing of component C8 of proteasomes from rat hepatoma cells. Tanaka K, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):676–83
Molecular cloning of cDNA for proteasomes (multicatalytic proteinase complexes) from rat liver: primary structure of the largest component (C2). Fujiwara T, et al. **Biochemistry** 1989 Sep 5;28(18):7332–40
Molecular cloning of cDNA for proteasomes from rat liver: primary structure of component C3 with a possible tyrosine phosphorylation site. Tanaka K, et al. **Biochemistry** 1990 Apr 17;29(15):3777–85
The PROS–35 gene encodes the 35 kd protein subunit of Drosophila melanogaster proteasome. Haass C, et al. **EMBO J** 1989 Aug;8(8):2373–9
cDNA cloning and sequencing of component C9 of proteasomes from rat hepatoma cells. Kumatori A, et al. **FEBS Lett** 1990 May 21;264(2):279–82
N–terminal sequence similarities between components of the multicatalytic proteinase complex. Lilley KS, et al. **FEBS Lett** 1990 Mar 26;262(2):327–9
A cysteine proteinase cDNA from Trypanosoma brucei predicts an enzyme with an unusual C–terminal extension. Mottram JC, et al. **FEBS Lett** 1989 Dec 4;258(2):211–5
Papaya proteinase IV amino acid sequence. Ritonja A, et al. **FEBS Lett** 1989 Nov 20;258(1):109–12
cDNA cloning and sequencing of component C5 of proteasomes from rat hepatoma cells. Tamura T, et al. **FEBS Lett** 1990 May 7;264(1):91–4
The Drosophila PROS–28.1 gene is a member of the proteasome gene family. Haass C, et al. **Gene** 1990 Jun 15;90(2):235–41
Site–directed mutagenesis suggests close functional relationship between a human rhinovirus 3C cysteine protease and cellular trypsin–like serine proteases. Cheah KC, et al. **J Biol Chem** 1990 May 5;265(13):7180–7
Proteasomes are essential for yeast proliferation. cDNA cloning and gene disruption of two major subunits. Fujiwara T, et al. **J Biol Chem** 1990 Sep 25; 265(27):16604–13
Molecular cloning of a protein associated with soybean seed oil bodies that is similar to thiol proteases of the papain family. Kalinski A, et al. **J Biol Chem** 1990 Aug 15; 265(23):13843–8
Species–specific substrate interaction of picornavirus 3C proteinase suballelic exchange mutants. Lawson MA, et al. **J Biol Chem** 1990 Sep 15;265(26):15920–31
Limited expression of poliovirus by vaccinia virus recombinants due to inhibition of the vector by proteinase 2A. Jewell JE, et al. **J Virol** 1990 Mar;64(3):1388–93
Molecular cloning and primary sequence of a cysteine

protease expressed by Haemonchus contortus adult worms. Cox GN, et al. **Mol Biochem Parasitol** 1990 Jun;41(1):25–34

Amplification and sequencing of genomic DNA fragments encoding cysteine proteases from protozoan parasites. Eakin AE, et al. **Mol Biochem Parasitol** 1990 Feb;39(1):1–8

Nucleotide sequence of the gene for the Vigna mungo sulfhydryl–endopeptidase (SH–EP). Akasofu H, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1892

The Drosophila PROS–29 gene is a new member of the PROS–gene family. Haass C, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4018

Nucleotide sequence of actinidin, a kiwi fruit protease. Podivinsky E, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8363

A genetic locus in mutant poliovirus genomes involved in overproduction of RNA polymerase and 3C proteinase. Dewalt PG, et al. **Virology** 1990 Feb;174(2):504–14

Interference with vaccinia virus growth caused by insertion of the coding sequence for poliovirus protease 2A. Turner PC, et al. **Virology** 1989 Dec;173(2):509–21

IMMUNOLOGY

Antibody response to Schistosoma mansoni adult worm cysteine proteinases in infected individuals. Chappell CL, et al. **Am J Trop Med Hyg** 1990 Apr;42(4):335–41

Immunological properties of the multicatalytic proteinase. Sweeney ST, et al. **Biochem Soc Trans** 1989 Dec; 17(6):1126–7

ISOLATION & PURIFICATION

Isolation and study of the properties of kininase from the venom of spider Latrodectus tredecimguttatus. Akhunov A, et al. **Adv Exp Med Biol** 1989;247A:313–8

Separation of yeast proteasome subunits. Immunoreactivity with antibodies against ATP–dependent protease Ti from Escherichia coli. Tanaka K, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1253–61

Purification and characterization of a digestive cysteine proteinase from the American lobster (Homarus americanus). Laycock MV, et al. **Biochem J** 1989 Oct 15; 263(2):439–44

RNA content of the multicatalytic proteinase complex. Skilton HE, et al. **Biochem Soc Trans** 1989 Dec;17(6):1124

Some kinetic properties of a cysteine proteinase (cruzipain) from Trypanosoma cruzi. Cazzulo JJ, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):186–91

Characterization and purification of extracellular proteases of Trichomonas vaginalis. Garber GE, et al. **Can J Microbiol** 1989 Oct;35(10):903–9

Partial purification and characterization of cysteine proteinases from various developmental stages of Paragonimus westermani. Song CY, et al. **Comp Biochem Physiol [B]** 1990;95(3):473–6

Purification of enzymatically active poliovirus proteinase 3C produced in Escherichia coli. Takahara Y, et al. **Gene** 1989 Jul 15;79(2):249–58

Characterisation of an alkaline peptidase of Trypanosoma cruzi and other trypanosomatids. Ashall F. **Mol Biochem Parasitol** 1990 Jan 1;38(1):77–87

Isolation and partial characterisation of a potentially pathogenic cysteine proteinase from adult Dictyocaulus viviparus. Rege AA, et al. **Vet Parasitol** 1989 Nov; 34(1–2):95–102

METABOLISM

Lysosomal proteases and protease inhibitors in nasal allergy and non–atopic sinusitis. Hamaguchi Y, et al. **Am J Otolaryngol** 1990 Jan–Feb;11(1):37–43

Kinetic study of nucleophile specificity in dipeptide synthesis catalyzed by clostridiopeptidase B. Fortier G, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):317–21

Characterization of the active site of human multicatalytic proteinase. Mason RW. **Biochem J** 1990 Jan 15; 265(2):479–84

High–efficiency transpeptidation catalysed by clostripain and electrostatic effects in substrate specificity. Yagisawa S, et al. **Biochem J** 1990 Mar 15;266(3):771–5

Labelling of cysteine proteinases in purified lysosomes. Wilcox D, et al. **Biochem Soc Trans** 1989 Dec;17(6):1080–1

Interaction between chicken cystatin and the cysteine proteinases actinidin, chymopapain A, and ficin. Björk I, et al. **Biochemistry** 1990 Feb 20;29(7):1770–6

Introduction of a cysteine protease active site into trypsin. Higaki JN, et al. **Biochemistry** 1989 Nov 28;28(24):9256–63

Viral proteinases: weakness in strength. Kay J, et al. **Biochim Biophys Acta** 1990 Jan 30;1048(1):1–18 (79 ref.)

Cathepsin B–indicator for the release of lysosomal cysteine proteinases in severe trauma and inflammation. Asafalg–Machleidt I, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:211–22

Equilibrium and kinetic studies of the interaction of chicken cystatin with four cysteine proteinases. Björk I, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:119–24

Mechanism of interaction of cysteine proteinases and their protein inhibitors as compared to the serine proteinase–inhibitor interaction. Bode W, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:111–8 (21 ref.)

"In vitro" digestion of intact bovine lens capsules by four human lysosomal cysteine–proteinases. Guinec N, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:239–54

A novel member of the calcium–dependent cysteine protease family. Sorimachi H, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:171–6

The effect of dietary zinc deficiency on pancreatic gamma–glutamyl hydrolase (EC 3.4.22.12) activity and on the absorption of pteroylpolyglutamate in rats. Canton MC, et al. **Br J Nutr** 1989 Jul;62(1):185–93

The effect of dietary zinc depletion and repletion on rats: Zn concentration in various tissues and activity of pancreatic gamma–glutamyl hydrolase (EC 3.4.22.12) as indices of Zn status. Canton MC, et al. **Br J Nutr** 1990 Jul;64(1):201–9

Sequential processing of lysosomal acid phosphatase by a cytoplasmic thiol proteinase and a lysosomal aspartyl proteinase. Gottschalk S, et al. **EMBO J** 1989 Nov; 8(11):3215–9

Parathyroid hormone increases thiol proteinase activity by activation of protein kinase C in cultured kidney tubule cells (OK). Denek L, et al. **FEBS Lett** 1990 Aug 20; 269(1):226–8

A consensus sequence for substrate hydrolysis by rhinovirus 3C proteinase. Long AC, et al. **FEBS Lett** 1989 Nov 20; 258(1):75–8

Inhibition of cysteine proteinases by a protein inhibitor from potato. Rowan AD, et al. **FEBS Lett** 1990 Sep 3; 269(2):328–30

A major cysteine proteinase is developmentally regulated in Trypanosoma cruzi. Campetella O, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1–2):145–9

Lens proteasome shows enhanced rates of degradation of hydroxyl radical modified alpha–crystallin. Murakami K, et al. **Free Radic Biol Med** 1990;8(3):217–22

Specific labeling of cysteine proteinases in pathogenic and nonpathogenic Entamoeba histolytica. de Meester F, et al. **Infect Immun** 1990 May;58(5):1396–401

Differences in cathepsin B + L and calcium–dependent protease activities among breed type and their relationship to beef tenderness. Johnson MH, et al. **J Anim Sci** 1990 Aug;68(8):2371–9

Role of substrate in reversible activation of proteasomes (multi–protease complexes) by sodium dodecyl sulfate. Tanaka K, et al. **J Biochem (Tokyo)** 1989 Sep; 106(3):495–500

Kinetic studies of the differential effect of detergents on the peptidase activities of the multicatalytic proteinase from rat liver. Arribas J, et al. **J Biol Chem** 1990 Aug 15; 265(23):13969–73

Substrate requirements of human rhinovirus 3C protease for peptide cleavage in vitro. Cordingley MG, et al. **J Biol Chem** 1990 Jun 5;265(16):9062–5

Hydrolysis of a series of synthetic peptide substrates by the human rhinovirus 14 3C proteinase, cloned and expressed in Escherichia coli. Orr DC, et al. **J Gen Virol** 1989 Nov; 70 (Pt 11):2931–42

Characterization of a thiol proteinase in Giardia lamblia. Parenti DM. **J Infect Dis** 1989 Dec;160(6):1076–80

Novel prodrugs which are activated to cytotoxic alkylating agents by carboxypeptidase G2. Springer CJ, et al. **J Med Chem** 1990 Feb;33(2):677–81

Thiol protease–thiol protease inhibitor imbalance in cardiac tissue of ageing cardiomyopathic hamsters. Warner AH, et al. **J Mol Cell Cardiol** 1990 May;22(5):577–86

Localization of endo–oligopeptidase (EC 3.4.22.19) in the rat nervous tissue. Oliveira ES, et al. **J Neurochem** 1990 Oct; 55(4):1114–21

Action of the major protease from Entamoeba histolytica on proteins of the extracellular matrix. Schulte W, et al. **J Protozool** 1989 Nov–Dec;36(6):538–43

Cleavage of small peptides in vitro by human rhinovirus 14 3C protease expressed in Escherichia coli. Cordingley MG, et al. **J Virol** 1989 Dec;63(12):5037–45

Effect of low molecular weight proteins and dextran on renal cathepsin B and L activity. Olbricht CJ, et al. **Kidney Int** 1990 Mar;37(3):918–26

[125I]–insulin metabolism by the rat liver in vivo: evidence that a neutral thiol–protease mediates rapid intracellular insulin degradation. Williams FG, et al. **Metabolism** 1990 Mar;39(3):231–41

The specificity of trichomonad cysteine proteinases analysed using fluorogenic substrates and specific inhibitors. North MJ, et al. **Mol Biochem Parasitol** 1990 Mar;39(2):183–93

ATP–dependent incorporation of 20S protease into the 26S complex that degrades proteins conjugated to ubiquitin. Eytan E, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(20):7751–5

Hemoglobin degradation in the malaria parasite Plasmodium falciparum: an ordered process in a unique organelle. Goldberg DE, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(8):2931–5

Abnormally high expression of proteasomes in human leukemic cells. Kumatori A, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7071–5

Identification of an enzyme in human kidney that correctly processes prorenin. Shinagawa T, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1927–31

Characterization of a dynorphin converting enzyme in the bovine pituitary. Devi L. **Prog Clin Biol Res** 1990; 328:247–51

Role of cathepsin B and L in anti–glomerular basement membrane nephritis in rats. Baricos WH, et al. **Renal Physiol Biochem** 1989 Sep–Dec;12(5–6):400–5

ATP–dependent mechanisms for protein degradation in mammalian cells. DeMartino GN, et al. **Revis Biol Celular** 1989;20:181–96 (32 ref.)

Proteolysis induced by metal–catalyzed oxidation. Levine RL. **Revis Biol Celular** 1989;21:347–60 (32 ref.)

Factor VIII influences binding of factor IX and factor X to intact human platelets. Muntean W, et al. **Thromb Res** 1989 Sep 1;55(5):537–48

Differences in substrate specificities for cysteine proteinases used in blood group serology, and the use of bromelain in a two–phase inhibitor technique. Ogasawara K, et al. **Vox Sang** 1989;57(1):72–6

PHARMACOKINETICS

The potential of carboxypeptidase G2: antibody conjugates as anti–tumour agents. II. In vivo localising and clearance properties in a choriocarcinoma model. Melton RG, et al. **Br J Cancer** 1990 Mar;61(3):420–4

PHARMACOLOGY

Carboxypeptidase G2 enhances trimetrexate cytotoxicity in CCRF–CEM cell lines sensitive and resistant to methotrexate. Romanini A, et al. **Adv Enzyme Regul** 1989; 28:323–33

Enhancement of trimetrexate cytotoxicity in vitro and in vivo by carboxypeptidase G2. Romanini A, et al. **Cancer Res** 1989 Nov 1;49(21):6019–23

Effects of EGTA and calmodulin, neutral thiol proteinases and protein kinase C inhibitors on loss of chicken pineal serotonin N–acetyltransferase activity. Rodriguez–Cabello JC, et al. **J Comp Physiol [B]** 1989;159(5):583–8

PHYSIOLOGY

Cysteinyl proteinases and their selective inactivation. Shaw E. **Adv Enzymol Relat Areas Mol Biol** 1990;63:271–347 (375 ref.)

Relationships among the subunits of the high molecular weight proteinase, macropain (proteasome). Lee LW, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):178–85

Cytoplasmic accumulations in rat primary brain cell cultures following treatment with E–64, a thiol protease inhibitor. Matsui K, et al. **Dev Neurosci** 1990;12(2):133–9

Effect of the multicatalytic proteinase (prosome) on translational activity in rabbit reticulocyte lysates. Kuehn L, et al. **FEBS Lett** 1990 Feb 26;261(2):274–8

Different roles for thiol and aspartyl proteases in antigen presentation of ovalbumin. Diment S. **J Immunol** 1990 Jul 15;145(2):417–22

Synthesis of N–[N–(4–deoxy–4–amino–10–methylpteroyl)–4–fluoroglutamyl]– gamma–glutamate, an unusual substrate for folylpoly–gamma–glutamate synthetase and gamma–glutamyl hydrolase. Licato NJ, et al. **J Med Chem** 1990 Mar;33(3):1022–7

Protease/inhibitor mechanisms involved in ATP–dependent proteolysis. Etlinger JD, et al. **Revis Biol Celular** 1989; 20:197–216 (61 ref.)

RADIATION EFFECTS

Dynamics of postirradiation intracellular cysteine and aspartic proteinases profiles in proliferating and nonproliferating mammalian cells. Korbelik M, et al. **Strahlenther Onkol** 1990 Jun;166(6):402–4

SECRETION

A neutral thiol protease secreted from newly excysted metacercariae of trematode parasite Paragonimus westermani: purification and characterization. Yamakami K, et al. **Comp Biochem Physiol [B]** 1990;95(4):755–8

CYSTEINE SYNTHASE see under **LYASES**

CYSTEINYLDOPA see under **DOPA**

CYSTIC ADENOMATOID MALFORMATION OF LUNG, CONGENITAL

COMPLICATIONS

Respiratory problems and cystic adenomatoid malformation of lung. Walker J, et al. **Arch Dis Child** 1990 Jul;65(7 Spec No):649–50

[Experience in the surgical treatment of chronic suppurative lung disease in children] Voronov SA, et al. **Grud Serdechnososudistaia Khir** 1990;(1):55–8 (Eng. Abstr.) **(Rus)**

[The secondary obstructive syndrome in children with congenital defects of the lungs and heart] Iukhtina NV, et al. **Pediatriia** 1990;(3):40–2 **(Rus)**

DIAGNOSIS

Prenatal diagnosis of cystic adenomatoid malformation of the lung. Vesce F, et al. **Clin Exp Obstet Gynecol** 1989; 16(4):121–5

Diagnosis of congenital cystic adenomatoid malformation of the lung in newborn infants and children. Heij HA, et al. **Thorax** 1990 Feb;45(2):122–5

[Congenital cystic adenomatoid malformation of the lung—a case report] Huang LT, et al. **Chang Keng I Hsueh** 1989 Jun 20;12(2):111–4 (Eng. Abstr.) **(Chi)**

[Antenatal diagnosis of lung malformations. Apropos of 9 case reports] Vergnes P, et al. **Chir Pediatr** 1989; 30(4):185–92 (41 ref.) (Eng. Abstr.) **(Fre)**

[Prenatal diagnosis of type II adenomatoid lung dysplasia] Macchiella D, et al. **Geburtshilfe Frauenheilkd** 1990 Jun; 50(6):495–8 (Eng. Abstr.) **(Ger)**

[Congenital cystic adenomatoid malformation of the lung in a fetus] Scholz P, et al. **Zentralbl Gynakol** 1990; 112(5):289–92 (Eng. Abstr.) **(Ger)**

[Polycystic lung in an adult diagnosed by ultrasound] Fraknói R, et al. **Orv Hetil** 1990 Apr 1;131(13):701–3 (Eng. Abstr.) **(Hun)**

IMMUNOLOGY

[Phagocytic activity of alveolar macrophages in children and adolescents with different bronchopulmonary pathological conditions] Shesterina MV, et al. **Pediatriia** 1990;(3):13–7 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Sudden death due to bilateral spontaneous pneumothorax caused by rupture of congenital lung cysts. Simonsen K. **Z Rechtsmed** 1990;103(5):379–83

[The ultrastructure of the ciliary epithelium in patients with the Zivert–Kartagener syndrome, bronchiectasis and cystic hypoplasia of the lungs] Lisochkin BG, et al. **Arkh Patol** 1989;51(10):10–7 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Radiological case of the month. Cystic adenomatoid malformation of the upper lobe of the right lung. Gwinn JL, et al. **Am J Dis Child** 1966 Jul;112(1):61–2

[Congenital cystic adenomatoid malformation] Tegllund L. **Ugeskr Laeger** 1990 Mar 19;152(12):826–7 (Eng. Abstr.) **(Dan)**

[A case of multiple cystic malformations of the lung in an infant] Podpora K, et al. **Wiad Lek** 1989 Feb 1;42(3):176–8 (Eng. Abstr.) **(Pol)**

SURGERY

[Lung operations in dyspneic newborn infants] Heij HA, et al. **Ned Tijdschr Geneeskd** 1989 Oct 7;133(40):1978–81 (Eng. Abstr.) **(Dut)**

THERAPY

Neonatal death despite fetal therapy for cystic adenomatoid malformation. A case report. Chao A, et al. **J Reprod Med** 1990 Jun;35(6):655–7

Prenatal treatment of type I congenital cystic adenomatoid malformation by intrauterine fetal thoracentesis. Nugent CE, et al. **JCU** 1989 Nov–Dec;17(9):675–7

CYSTIC DISEASE OF BREAST see **FIBROCYSTIC DISEASE OF BREAST**

CYSTIC DUCT

Dilatation of the cystic duct with its congenital low entry into the common hepatic duct. Kise Y, et al. **Am J Gastroenterol** 1990 Jun;85(6):769–70

Choledochoscopy via the cystic duct: evaluation of a new ultrathin disposable choledochoscope [see comments] Dennis MJ, et al. **Ann R Coll Surg Engl** 1989 Sep; 71(5):320–1 Comment in: Ann R Coll Surg Engl 1990 Mar;72(2):147–8.

Cannulation of the cystic duct and gallbladder. Miller GL, et al. **Endoscopy** 1989 Sep;21(5):223–4

Percutaneous transcatheter occlusion of cystic duct stump in postcholecystectomy bile leakage. Berger H, et al. **Gastrointest Radiol** 1989 Fall;14(4):334–6

Percutaneous dislodgement of an impacted cystic duct stone. Zagoria RJ, et al. **Gastrointest Radiol** 1989 Fall;14(4):337–8

Biliary obstruction and cholestasis in AIDS: case report. Markowitz SM, et al. **Va Med** 1990 Mar;117(3):114–6

[Choledochoscopy through the cystic duct] Sinĕv IuV, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):122 **(Rus)**

ABNORMALITIES

Mirizzi syndrome and cholecystobiliary fistula: a unifying classification. Csendes A, et al. **Br J Surg** 1989 Nov; 76(11):1139–43

[Agenesis of the gallbladder. Description of 2 cases in 2 siblings] Venuta A, et al. **Pediatr Med Chir** 1989 Jul–Aug; 11(4):465–6 (Eng. Abstr.) **(Ita)**

INJURIES

[Large calculus of the gallbladder penetrating into the common bile duct through the cystic duct] Kogan AS, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):131–2 **(Rus)**

[Diagnosis and treatment of biliary–pleural fistula] Postrelov NA, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):130–1 **(Rus)**

PATHOLOGY

Cystic duct entry—another cause of pseudocalculus. Berkowitz I, et al. **Endoscopy** 1990 Mar;22(2):85–7

Transpapillary cholecystoscopy. Foerster EC, et al. **Endoscopy** 1989 Dec;21 Suppl 1:381–3

Early carcinoma of the extrahepatic bile duct. Tsunoda T, et al. **Jpn J Surg** 1989 Nov;19(6):691–8

[Opisthorchiasis-induced strictures of the cystic duct] Brazhinikova NA, et al. **Arkh Patol** 1989;51(8):52–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Changes in gallbladder volume do not affect cystic duct resistance. Sharp KW, et al. **Arch Surg** 1990 Apr; 125(4):460–2

RADIOGRAPHY

Carcinoma of the cystic duct. Radin DR, et al. **Gastrointest Radiol** 1990 Winter;15(1):49–52

[Mirizzi syndrome and its variants] Meyer GJ, et al. **Z Gastroenterol** 1990 Apr;28(4):202–5 (Eng. Abstr.) **(Ger)**

[Extent of diagnostic manipulations for evaluation of the status of the hepatic and common bile ducts] Trunin MA, et al. **Vestn Khir** 1990 Mar;144(3):64–5 **(Rus)**

SURGERY

Management of the Mirizzi syndrome and the surgical implications of cholecystcholedochal fistula. Baer HU, et al. **Br J Surg** 1990 Jul;77(7):743–5

Ablation of the cystic duct and gallbladder: clinical observations. Becker CD, et al. **Radiology** 1990 Sep; 176(3):687–90

Anastomosis of biliary tissue with high-frequency electrical diathermy. Bass LS, et al. **Surg Endosc** 1990;4(2):94–6

[The residual cystic stump syndrome: is it reality or fantasy?] Tritapepe R, et al. **Ann Ital Chir** 1989;60(3):133–5 **(Ita)**

[External drainage of the bile ducts via the stump of the cystic duct to prevent postoperative complications in elderly patients] Ashrafov AA. **Klin Khir** 1989;(9):37–8 (Eng. Abstr.) **(Rus)**

[A device for fixation of ligatures on the cystic duct] Nechaĭ AI, et al. **Vestn Khir** 1989 May;142(5):122 **(Rus)**

ULTRASTRUCTURE

Morphology of the prairie dog gallbladder: normal characteristics and changes during early lithogenesis. Haley-Russell D, et al. **Am J Anat** 1989 Oct;186(2):133–43

CYSTIC FIBROSIS

see related
SWEATING

From basic defect to symptoms in cystic fibrosis. Proceedings of a symposium on the occasion of the 20th anniversary of the Dutch Cystic Fibrosis Association. 21–22 April 1989. **Acta Paediatr Scand Suppl** 1989;363:5–85

Current recommendations for breast-feeding in cystic fibrosis centers. Luder E, et al. **Am J Dis Child** 1990 Oct; 144(10):1153–6

Prostaglandins E2 and E2 alpha are elevated in saliva of cystic fibrosis patients. Rigas B, et al. **Am J Gastroenterol** 1989 Nov;84(11):1408–12

Current approaches to the molecular and physiological basis of cystic fibrosis. Krauss RD, et al. **Am J Med Sci** 1989 Nov;298(5):334–41 (67 ref.)

Cystic fibrosis. David TJ. **Arch Dis Child** 1990 Jan; 65(1):152–7 (29 ref.)

Orthognathic surgical correction of a dentofacial deformity in a patient with cystic fibrosis. Kneezel RC, et al. **J Oral Maxillofac Surg** 1990 May;48(5):499–502

RE: Arteriovenous malformation of the spermatic cord [letter; comment] Amelar RD. **J Urol** 1990 Jun;143(6):1238 Comment on: J Urol 1989 Jan;141(1):103–4.

Cystic fibrosis: prospects for screening and therapy [editorial] **Lancet** 1990 Jan 13;335(8681):79–80

Lung disease in cystic fibrosis—an updated concept. Zach MS. **Pediatr Pulmonol** 1990;8(3):188–202 (167 ref.)

Errors, gaps, and misconceptions in the disease-related knowledge of cystic fibrosis patients and their families. Henley LD, et al. **Pediatrics** 1990 Jun;85(6):1008–14

Global and specific disease-related information needs of cystic fibrosis patients and their families. Henley LD, et al. **Pediatrics** 1990 Jun;85(6):1015–21

[Cystic fibrosis] Houštěk J, et al. **Zdrav Aktual** 1985;205:40–4 **(Cze)**

BLOOD

Serum complement C2 levels in patients suffering from cystic fibrosis (CF). László A, et al. **Acta Paediatr Hung** 1988–89; 29(3–4):289–92

Acylcarnitine is low in cord blood in cystic fibrosis. Lloyd-Still JD, et al. **Acta Paediatr Scand** 1990 Apr; 79(4):427–30

Visceral seric proteins and acute phase reactants as indicators of the state of nutrition and inflammation in children with cystic fibrosis [letter; comment] Sarria A, et al. **Acta Paediatr Scand** 1990 Mar;79(3):361–2 Comment on: Acta Paediatr Scand 1988 Jan;77(1):94–8.

Fat-soluble-vitamin status during the first year of life in infants with cystic fibrosis identified by screening of newborns. Sokol RJ, et al. **Am J Clin Nutr** 1989 Nov; 50(5):1064–71

Isolation and characterization of mucin from the serum of cystic fibrosis patients. Roberts DD, et al. **Am J Respir Cell Mol Biol** 1990 Apr;2(4):373–9

Relation between tumor necrosis factor-alpha and granulocyte elastase-alpha 1-proteinase inhibitor complexes in the plasma of patients with cystic fibrosis. Suter S, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1640–4

Influence of infusion method on serum tobramycin concentrations in adults with cystic fibrosis. Pleasants RA, et al. **Clin Pharm** 1990 Jul;9(7):541–5

Abnormal 3,4-dihydroxyphenylalanine (dopa) concentrations in plasma and urine of patients with cystic fibrosis. Schöni MH, et al. **Eur J Clin Invest** 1990 Jun;20(3):272–8

Platelet abnormalities in patients with cystic fibrosis and obligate heterozygotes. Mikhailidis DP, et al. **Haematologica** 1990 Mar–Apr;75(2):137–40

Expression pattern of two related cystic fibrosis-associated calcium-binding proteins in normal and abnormal tissues. Wilkinson MM, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):221–30

Hypoalbuminemia in young infants with cystic fibrosis [letter; comment] Abman SH, et al. **J Pediatr** 1990 May; 116(5):840–1 Comment on: J Pediatr 1989 Nov;115(5 Pt 1):755–8.

Hypoalbuminemia at initial examination in patients with cystic fibrosis [see comments] Reisman J, et al. **J Pediatr** 1989 Nov;115(5 Pt 1):755–8 Comment in: J Pediatr 1990 May;116(5):840–1.

Transcutaneous blood gas analysis during sleep and exercise in cystic fibrosis. Pradal U, et al. **Pediatr Pulmonol** 1990; 8(3):162–7

Cell cycle dependence of chloride permeability in normal and cystic fibrosis lymphocytes. Bubien JK, et al. **Science** 1990 Jun 15;248(4961):1416–9

Effect of chest physiotherapy on oxygen saturation in patients with cystic fibrosis. Pryor JA, et al. **Thorax** 1990 Jan; 45(1):77

Pharmacokinetics of cyclosporine A in bilateral lung transplantation candidates with cystic fibrosis. Mancel-Grosso V, et al. **Transplant Proc** 1990 Aug; 22(4):1706–7

[Effect of nutritional status on absorption kinetics of vitamin E in mucoviscidosis] Skopnik H, et al. **Klin Padiatr** 1990 Jan–Feb;202(1):43–9 (Eng. Abstr.) **(Ger)**

[The diagnostic potentialities of determining alpha-fetoprotein in the blood of patients with mucoviscidosis] Pavlov GV. **Lab Delo** 1990;(4):47–8 (Eng. Abstr.) **(Rus)**

[Plasma fatty acids in children with cystic fibrosis] Lázaro Almarza A, et al. **An Esp Pediatr** 1989 Nov;31(5):440–2 (Eng. Abstr.) **(Spa)**

[Evaluation of the inflammatory and nutritional status in children with cystic fibrosis] Sarriá Chueca A, et al. **An Esp Pediatr** 1989 Jun;30(6):447–50 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Incidence of celiac disease in a cystic fibrosis population. Valleta EA, et al. **Acta Paediatr Scand** 1989 Sep;78(5):784–5

Hepatobiliary pathology in patients with cystic fibrosis. Sinaasappel M. **Acta Paediatr Scand Suppl** 1989;363:45–50; discussion 50–1 (18 ref.)

Use of ciprofloxacin in cystic fibrosis patients. Bosso JA. **Am J Med** 1989 Nov 30;87(5A):123S–127S

Pregnancy in a patient with cystic fibrosis (mucoviscidosis) and diabetes mellitus. Plotz EJ, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1105–10

Cholecystectomy as the treatment of choice in cystic fibrosis [letter] Bilton D, et al. **Am J Surg** 1990 Sep;160(3):323–4

Increased levels of interleukin-1 in bronchoalveolar washings from children with bacterial pulmonary infections. Wilmott RW, et al. **Am Rev Respir Dis** 1990 Aug;142(2):365–8

Vitamin E deficiency neuropathy in children with fat malabsorption. Studies in cystic fibrosis and chronic cholestasis. Sokol RJ, et al. **Ann N Y Acad Sci** 1989; 570:156–69

Pneumothorax in cystic fibrosis [letter; comment] Rodgers BM, et al. **Ann Thorac Surg** 1989 Nov;48(5):743–4 Comment on: Ann Thorac Surg 1989 Feb;47(2):204–7.

Heart-lung transplantation for pneumothorax in cystic fibrosis [letter; comment] Smyth RL, et al. **Ann Thorac Surg** 1989 Nov;48(5):744–5 Comment on: Ann Thorac Surg 1989 Feb;47(2):204–7.

Polymorphonuclear leukocyte elastase: its effects on the pathogenesis of Pseudomonas aeruginosa infection in cystic fibrosis. Döring G. **Antibiot Chemother** 1989;42:169–76 (34 ref.)

Cross-infection with Pseudomonas aeruginosa in Danish cystic fibrosis patients. Høiby N, et al. **Antibiot Chemother** 1989;42:124–9

Use of antibiotics in cystic fibrosis. The Danish approach. Jensen T, et al. **Antibiot Chemother** 1989;42:237–46 (42 ref.)

Antibiotic therapy for bronchopulmonary infections in cystic fibrosis. The American approach. Marks MI. **Antibiot Chemother** 1989;42:229–36 (12 ref.)

Immune complexes and inflammation in cystic fibrosis. Schiötz PO. **Antibiot Chemother** 1989;42:154–7 (18 ref.)

Clinical monitoring of steatorrhoea in cystic fibrosis [letter] Brown GA, et al. **Arch Dis Child** 1990 Aug;65(8):913

Pathology mimicking distal intestinal obstruction syndrome in cystic fibrosis. Dalzell AM, et al. **Arch Dis Child** 1990 May;65(5):540–1

Cystic fibrosis and renal tubular acidosis. Fallon JS, et al. **Arch Dis Child** 1989 Jul;64(7):1054–5

Cows' milk sensitive enteropathy in cystic fibrosis. Hill SM, et al. **Arch Dis Child** 1989 Sep;64(9):1251–5

Pathogenesis and management of aspergillosis in cystic

fibrosis. Hiller EJ. **Arch Dis Child** 1990 Apr;65(4):397–8 (20 ref.)
Haemophilus infection in cystic fibrosis. Rayner RJ, et al. **Arch Dis Child** 1990 Mar;65(3):255–8
Cystic fibrosis and allergic bronchopulmonary aspergillosis. Simmonds EJ, et al. **Arch Dis Child** 1990 May;65(5):507–11
Pseudomonas cepacia: a new pathogen in patients with cystic fibrosis referred to a large centre in the United Kingdom. Simmonds EJ, et al. **Arch Dis Child** 1990 Aug;65(8):874–7
Nutrition in cystic fibrosis [letter] Taylor CJ, et al. **Arch Dis Child** 1990 Jun;65(6):646–7
Clinical monitoring of steatorrhoea in cystic fibrosis. Walters MP, et al. **Arch Dis Child** 1990 Jan;65(1):99–102
Xerophthalmia and cystic fibrosis. Brooks HL Jr, et al. **Arch Ophthalmol** 1990 Mar;108(3):354–7
Cutaneous manifestations of cystic fibrosis: possible role of cryoglobulins. Garty BZ, et al. **Br J Dermatol** 1989 Nov; 121(5):655–8
Psoriatic or cystic fibrosis arthropathy? Difficulty with diagnosis and management. Benjamin CM, et al. **Br J Rheumatol** 1990 Aug;29(4):301–2
Enhancement of hypoxemia by atrial shunting in cystic fibrosis. Davidson A, et al. **Chest** 1990 Sep;98(3):543–5
Pseudomonas aeruginosa empyema in an adult with cystic fibrosis. Mestitz H, et al. **Chest** 1990 Aug;98(2):485–7
Bronchial artery embolization for severe hemoptysis in cystic fibrosis. Sweezey NB, et al. **Chest** 1990 Jun;97(6):1322–6
Changing patterns of gastrointestinal manifestations of cystic fibrosis. Survey of recent progress in diagnosis and treatment. Grand RJ. **Clin Pediatr (Phila)** 1970 Oct; 9(10):588–93 (33 ref.)
Ciprofloxacin in the treatment of Pseudomonas infection in children with cystic fibrosis. Rubio TT. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):153–5
Genotyping of Pseudomonas aeruginosa sputum and stool isolates from cystic fibrosis patients: evidence for intestinal colonization and spreading into toilets. Döring G, et al. **Epidemiol Infect** 1989 Dec;103(3):555–64
Proteus mirabilis as a cause of recurrent lung infection in a cystic fibrosis patient [letter] Ojeda-Vargas M, et al. **Eur J Clin Microbiol Infect Dis** 1990 Mar;9(3):234–5
Antipseudomonal therapy in cystic fibrosis: aztreonam and amikacin versus ceftazidime and amikacin administered intravenously followed by oral ciprofloxacin. Schaad UB, et al. **Eur J Clin Microbiol Infect Dis** 1989 Oct;8(10):858–65
Nyctalopia and conjunctival xerosis indicating vitamin A deficiency in cystic fibrosis. Neugebauer MA, et al. **Eye** 1989;3 (Pt 3):360–4
Pathology of common bile duct stenosis in cystic fibrosis. Bilton D, et al. **Gut** 1990 Feb;31(2):236–8
Effects of ursodeoxycholic acid treatment on nutrition and liver function in patients with cystic fibrosis and longstanding cholestasis. Cotting J, et al. **Gut** 1990 Aug; 31(8):918–21
Cystic fibrosis of the lungs. Jagadish JS. **Indian J Pediatr** 1989 Mar–Apr;56(2):288–90
Pseudomonas aeruginosa alginate in cystic fibrosis sputum and the inflammatory response. Pedersen SS, et al. **Infect Immun** 1990 Oct;58(10):3363–8
Selection of antibiotics for treatment and prophylaxis of staphylococcal infections in cystic fibrosis patients. Bauernfeind A, et al. **Infection** 1990 Mar–Apr;18(2):126–30
Staphylococcus aureus in patients with cystic fibrosis: an epidemiological analysis using a combination of traditional and molecular methods. Goering RV, et al. **Infection** 1990 Jan–Feb;18(1):57–60
Antistaphylococcal antibodies in cystic fibrosis. Strandvik B, et al. **Infection** 1990 May–Jun;18(3):170–2
Depression and anxiety in pediatric inflammatory bowel disease and cystic fibrosis. Burke P, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):948–51
Clinical experiences with fusidic acid in cystic fibrosis patients. Jensen T, et al. **J Antimicrob Chemother** 1990 Feb; 25 Suppl B:45–52
Clinical and pharmacokinetic aspects of ciprofloxacin in the treatment of acute exacerbations of pseudomonas infection in cystic fibrosis patients. Steen HJ, et al. **J Antimicrob Chemother** 1989 Nov;24(5):787–95
Ductal epithelial cells cultured from human foetal epididymis and vas deferens: relevance to sterility in cystic fibrosis. Harris A, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):687–90
Distal colonic impaction requiring laparotomy in an adult with cystic fibrosis. Apelgren KN, et al. **J Clin Gastroenterol** 1989 Dec;11(6):687–90
Nonopsonic antibodies in cystic fibrosis. Pseudomonas aeruginosa lipopolysaccharide-specific immunoglobulin G antibodies from infected patient sera inhibit neutrophil oxidative responses. Eichler I, et al. **J Clin Invest** 1989 Dec;84(6):1794–804
Pseudomonas aeruginosa flagellar antibodies in patients with cystic fibrosis. Anderson TR, et al. **J Clin Microbiol** 1989 Dec;27(12):2789–93
Subgrouping of Pseudomonas cepacia by cellular fatty acid composition. Mukwaya GM, et al. **J Clin Microbiol** 1989 Dec;27(12):2640–6
Use of a pilin gene probe to study molecular epidemiology of Pseudomonas aeruginosa. Speert DP, et al. **J Clin Microbiol** 1989 Nov;27(11):2589–93
Functional importance of cystic fibrosis immunoglobulin G fragments generated by Pseudomonas aeruginosa elastase. Bainbridge T, et al. **J Lab Clin Med** 1989 Dec;114(6):728–33
Direct transesterification of plasma fatty acids for the diagnosis of essential fatty acid deficiency in cystic fibrosis. Lepage G, et al. **J Lipid Res** 1989 Oct;30(10):1483–90
Malnutrition in cystic fibrosis: psychosocial functioning of patients and their families. Brennan JL, et al. **J Paediatr Child Health** 1990 Feb;26(1):36–40
Efficacy of inhaled tobramycin in cystic fibrosis [letter] Semsarian C. **J Paediatr Child Health** 1990 Apr;26(2):110–1
Effects of ursodeoxycholic acid therapy for liver disease associated with cystic fibrosis. Colombo C, et al. **J Pediatr** 1990 Sep;117(3):482–9
Clinical manifestations of exacerbations of cystic fibrosis associated with nonbacterial infections. Pribble CG, et al. **J Pediatr** 1990 Aug;117(2 Pt 1):200–4
Nontransmural myocardial infarction as a complication of untreated cystic fibrosis. Aronson DC, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):126–30
Crohn's disease in cystic fibrosis. Behrens R, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):528–31
The spectrum of appendiceal disease in cystic fibrosis. Coughlin JP, et al. **J Pediatr Surg** 1990 Aug;25(8):835–9
Liver disease and biliary tract abnormalities in cystic fibrosis [letter; comment] Bilton D, et al. **Lancet** 1990 Feb 10; 335(8685):357 Comment on: Lancet 1989 Dec 16;2(8677):1422–5.
Liver disease and bileduct stenosis in cystic fibrosis [letter; comment] Gaskin KJ, et al. **Lancet** 1990 May 5; 335(8697):1098 Comment on: Lancet 1989 Dec 16;2(8677):1422–5.
Exophiala dermatitidis infection in cystic fibrosis [letter] Haase G, et al. **Lancet** 1990 Jul 21;336(8708):188–9
Mebeverine-induced perforated colon in distal intestinal syndrome of cystic fibrosis [letter; comment] Hassan W, et al. **Lancet** 1990 May 19;335(8699):1225 Comment on: Lancet 1990 Mar 3;335(8688):552.
Liver disease and bile duct abnormalities in adults with cystic fibrosis [see comments] Nagel RA, et al. **Lancet** 1989 Dec 16;2(8677):1422–5 Comment in: Lancet 1990 Feb 10;335(8685):357. Comment in: Lancet 1990 May 5;335(8697):1098.
Diet, cystic fibrosis, and diabetes: making friends with the perfect enemy [letter] Sheehan JP, et al. **Lancet** 1990 Aug 25;336(8713):501
Allergic bronchopulmonary aspergillosis [letter; comment] Simmonds EJ, et al. **Lancet** 1990 May 19;335(8699):1229 Comment on: Lancet 1990 Apr 21;335(8695):947.
Sinus disease in patients with severe cystic fibrosis: relation to pulmonary exacerbation. Umetsu DT, et al. **Lancet** 1990 May 5;335(8697):1077–8
Perforation of colon in distal intestinal syndrome of cystic fibrosis [letter] Whitehead AM. **Lancet** 1990 Aug 18; 336(8712):446
Antibacterial therapy in cystic fibrosis. Mouton JW, et al. **Med Clin North Am** 1990 May;74(3):837–50 (58 ref.)
Risk factors for Pseudomonas aeruginosa colonization in cystic fibrosis patients. Kerem E, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):494–8
The use of aztreonam in the cystic fibrosis patient. Matsen JM, et al. **Pediatr Infect Dis J** 1989 Sep;8(9 Suppl):S117–9; discussion S128–32 (13 ref.)
On septicemia in an adult with cystic fibrosis: neutrophil function and serum chemoattractant activity [letter] Colt HG, et al. **Pediatr Pulmonol** 1990;9(1):63–4
Treatment of Pseudomonas lung infection in cystic fibrosis with piperacillin plus tobramycin versus ceftazidime monotherapy: preliminary communication. De Boeck K, et al. **Pediatr Pulmonol** 1989;7(3):171–3
Safety of aerosol tobramycin administration for 3 months to patients with cystic fibrosis. Smith AL, et al. **Pediatr Pulmonol** 1989;7(4):265–71
Pseudomonas hyperimmune globulin passive immunotherapy for pulmonary exacerbations in cystic fibrosis. Van Wye JE, et al. **Pediatr Pulmonol** 1990;9(1):7–18
Weight and menstrual function in patients with eating disorders and cystic fibrosis. Weltman EA, et al. **Pediatrics** 1990 Mar;85(3):282–7
Hepatic abscess and cystic fibrosis [letter; comment] [see comments] Canny GJ. **Postgrad Med J** 1989 Jul;65(765):506 Comment on: Postgrad Med J 1988 Oct;64(756):814–7. Comment in: Postgrad Med J 1990 Feb;66(772):155–6.
Trichomoniasis and cystic fibrosis [letter; comment] Krvavac S. **Postgrad Med J** 1990 Feb;66(772):155–6 Comment on: Postgrad Med J 1989 Jul;65(765):506.
Vasculitis complicating cystic fibrosis. Finnegan MJ, et al. **Q J Med** 1989 Jul;72(267):609–21
Bronchial artery embolization to control hemoptysis in cystic fibrosis. Cohen AM, et al. **Radiology** 1990 May;175(2):401–5
Pseudomonas aeruginosa septicaemia in a young adult with cystic fibrosis. Coffey MJ, et al. **Respir Med** 1990 Mar; 84(2):167–8
Prevention of severe lower respiratory infections in patients with cystic fibrosis. Speert DP. **Semin Respir Infect** 1989 Dec;4(4):266–71 (35 ref.)
Prospective study of mycobacterial infections in patients with cystic fibrosis. Hjelte L, et al. **Thorax** 1990 May; 45(5):397–400
Sarcoidosis in an adult with cystic fibrosis. Rettinger SD, et al. **Thorax** 1989 Oct;44(10):829–30
The use of heart-lung transplantation in management of terminal respiratory complications of cystic fibrosis. Smyth RL, et al. **Transplant Proc** 1990 Aug;22(4):1472–3
[Otorhinolaryngologic involvement in cystic fibrosis] Denoyelle F, et al. **Ann Otolaryngol Chir Cervicofac** 1990; 107(3):200–3; discussion 203–4 (Eng. Abstr.) **(Fre)**
[Meconium ileus and molecular biology (letter)] Foucaud P, et al. **Arch Fr Pediatr** 1990 Jun–Jul;47(6):469 **(Fre)**
[Antibiotic therapy in cystic fibrosis: uncertainty and reality] Bellon G, et al. **Rev Mal Respir** 1990;7(3):203–8 (24 ref.) (Eng. Abstr.) **(Fre)**
[Pseudomonas aeruginosa infection in cystic fibrosis. The importance of early antibiotic therapy] Dutau G, et al. **Rev Mal Respir** 1990;7(3):183–5 **(Fre)**
[Myocardial damage as a rare complication of mucoviscidosis] Danihel L, et al. **Zentralbl Allg Pathol** 1989;135(5):457–61 (Eng. Abstr.) **(Ger)**
[Azlocillin in the treatment of pulmonary infections in patients with cystic fibrosis: plasma concentrations and therapeutic indications] Rosselli P, et al. **Pediatr Med Chir** 1989 Jul–Aug;11(4):389–91 (Eng. Abstr.) **(Ita)**
[Recurrent and bilateral pneumothorax in children with cystic fibrosis] López Gutiérrez JC, et al. **An Esp Pediatr** 1989 Jul;31(1):79–80 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Prenatal diagnosis and genetic counseling of cystic fibrosis. Niermeijer MF, et al. **Acta Paediatr Scand Suppl** 1989; 363:20–4 (18 ref.)
Sweat sodium and chloride concentrations—essential criteria for the diagnosis of cystic fibrosis in adults. Hall SK, et al. **Ann Clin Biochem** 1990 Jul;27 (Pt 4):318–20
Fluorescein dilaurate test of exocrine pancreatic function in cystic fibrosis. Dalzell AM, et al. **Arch Dis Child** 1990 Jul; 65(7):788–9
Pseudo-Bartter's syndrome in cystic fibrosis. Kennedy JD, et al. **Arch Dis Child** 1990 Jul;65(7):786–7
Fractional measurements of sweat osmolality in patients with cystic fibrosis. Simmonds E, et al. **Arch Dis Child** 1989 Dec;64(12):1717–20
Quantification of chloride in sweat with the Cystic Fibrosis Indicator System. Warwick WJ, et al. **Clin Chem** 1990 Jan; 36(1):96–8
Cystic fibrosis proteins detected by electrophoretic techniques. Guy-Crotte O, et al. **Electrophoresis** 1989 Aug–Sep;10(8–9):628–32
Prenatal diagnosis of cystic fibrosis. Analytical evaluation of microvillar enzyme determinations in amniotic fluid. Dechecchi MC, et al. **Enzyme** 1989;42(4):209–18
A review of pulmonary function testing in children [see comments] Sly PD, et al. **J Asthma** 1990;27(3):137–47 (28 ref.) Comment in: J Asthma 1990;27(3):135–6.
Prenatal diagnosis of cystic fibrosis: experience of two complementary methods. Bozon D, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:305–7
Prenatal diagnosis of cystic fibrosis using closely linked DNA probes. Lissens W, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:308–10
Cystic fibrosis—a case presented with recurrent bronchiolitis in infancy in a Korean male infant. Moon HR, et al. **J Korean Med Sci** 1988 Dec;3(4):157–62
Vitamin A in cystic fibrosis: case report and review of the literature. Eid NS, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):265–9 (41 ref.)
The sweat crystallization test in the diagnosis of cystic fibrosis [letter] Ferrer-Calvete J, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):416–7
Cystic fibrosis in Saudi Arabia: a diagnosis not to be missed. al Umran K, et al. **J Trop Pediatr** 1989 Dec;35(6):289–90
Prenatal detection of major cystic fibrosis mutation [letter] Halley DJ, et al. **Lancet** 1989 Oct 21;2(8669):972
First-trimester prenatal diagnosis of cystic fibrosis by direct gene probing [letter] McIntosh I, et al. **Lancet** 1989 Oct 21;2(8669):972–3
Amplification refractory mutation system for prenatal diagnosis and carrier assessment in cystic fibrosis. Newton CR, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1481–3
The sweat test for cystic fibrosis [letter] [corrected and republished erratum originally printed in N C Med J 1990 Apr;51(4):187] LeGrys VA. **N C Med J** 1990 Jun; 51(6):303–4
Screening for cystic fibrosis; public policy and personal choices [editorial; comment] Colten HR. **N Engl J Med** 1990 Feb 1;322(5):328–9 Comment on: N Engl J Med 1990 Feb 1;322(5):291–6. Comment on: N Engl J Med 1990 Feb 1;322(5):303–8.
Mutation analysis for heterozygote detection and the prenatal diagnosis of cystic fibrosis [see comments] Lemna WK, et al. **N Engl J Med** 1990 Feb 1;322(5):291–6 Comment in: N Engl J Med 1990 Feb 1;322(5):328–9. Comment in: N Engl J Med 1990 Jul 5;323(1):62–3.
Pancreatic function in infants identified as having cystic fibrosis in a neonatal screening program [see comments] Waters DL, et al. **N Engl J Med** 1990 Feb 1;322(5):303–8 Comment in: N Engl J Med 1990 Feb 1;322(5):328–9.
Genetic testing: CF screening premature? [news] McGourty C. **Nature** 1989 Nov 23;342(6248):334
CF screening [letter] [published erratum appears in Nature 1990 Mar 29;344(6265):388] [comment] Super M, et al. **Nature** 1990 Mar 8;344(6262):113–4 Comment on: Nature 1989 Nov 9;342(6246):131.
Carrier screening in CF [letter; comment] [see comments] ten Kate LP. **Nature** 1989 Nov 9;342(6246):131 Comment on: Nature 1989 Sep 14;341(6238):102–3. Comment in: Nature 1990 Feb 15;343(6259):586. Comment in: Nature

1990 Mar 8;344(6262):113–4.
CF screening [letter; comment] Vassart G, et al. **Nature** 1990 Feb 15;343(6259):586 Comment on: Nature 1989 Nov 9;342(6246):131.
Evaluation of tests of exocrine and endocrine pancreatic function in older patients with cystic fibrosis. Lamers CB, et al. **Pancreas** 1990;5(1):65–9
Hypoelectrolytemia, hypovolemia, and alkalosis in cystic fibrosis with wood-burning stove in winter. Berezin S, et al. **Pediatr Emerg Care** 1989 Sep;5(3):189–90
Variability of pulmonary function tests in cystic fibrosis. Cooper PJ, et al. **Pediatr Pulmonol** 1990;8(1):16–22
Acute presentation of cystic fibrosis in an adult. Gardiner KR, et al. **Postgrad Med J** 1989 Jul;65(765):471–2
Depressive illness and abnormal sweat electrolytes. A case report. Pelteret RM. **S Afr Med J** 1990 Jan 20;77(2):107–8
CF screening delayed for awhile, perhaps forever [news] Roberts L. **Science** 1990 Mar 16;247(4948):1296–7
[Experience with rapid molecular genetic diagnosis using the polymerase chain reaction] Macek M Jr, et al. **Cas Lek Cesk** 1990 May 11;129(19):590–5 (Eng. Abstr.) **(Cze)**
[Strategies in prenatal diagnosis of cystic fibrosis after the introduction of DNA analysis. Initial experience] Sedláček Z, et al. **Cas Lek Cesk** 1990 Jun 1;129(22):683–8 (Eng. Abstr.) **(Cze)**
[Cystic fibrosis: a breakthrough in diagnosis, prevention and research] Galjaard H. **Ned Tijdschr Geneeskd** 1989 Dec 2;133(48):2371–3 **(Dut)**
[Early diagnosis of cystic fibrosis: to screen or not to screen?] Dankert-Roelse JE. **Tijdschr Kindergeneeskd** 1990 Feb; 58(1):49–54 (Eng. Abstr.) **(Dut)**
[Mucoviscidosis: late diagnosis despite typical clinical features] Rasche K, et al. **Dtsch Med Wochenschr** 1989 Oct 13;114(41):1566–70 (Eng. Abstr.) **(Ger)**
[Diagnosis of mucoviscidosis by examination of sweat: value of conductometry] Sprössig C, et al. **Kinderarztl Prax** 1989 Oct;57(10):497–502 (Eng. Abstr.) **(Ger)**
[Principles of DNA diagnosis] Moser H. **Klin Monatsbl Augenheilkd** 1990 May;196(5):265–8 (Eng. Abstr.) **(Ger)**
[Ultrasound changes of the pancreas in patients with mucoviscidosis] Winkielman J, et al. **Monatsschr Kinderheilkd** 1990 Mar;138(3):153–6 (Eng. Abstr.) **(Ger)**
[The sweat test in cystic fibrosis] Stur O. **Padiatr Padol** 1990; 25(2):107–10 (3 ref.) (Eng. Abstr.) **(Ger)**
[Prenatal diagnosis of cystic fibrosis by analysis of microvillar enzymes of the amniotic fluid] Szabó M, et al. **Orv Hetil** 1990 Aug 12;131(32):1749–50, 1753–5 (17 ref.) (Eng. Abstr.) **(Hun)**
[Echographic observation of a fetus with mucoviscidosis] Riboni G, et al. **Radiol Med (Torino)** 1989 Dec;78(6):649–51 **(Ita)**
[Mucoviscidosis with a rare course in an infant] Banaszak P, et al. **Pediatr Pol** 1989 Aug–Sep;64(8–9):568–70 **(Pol)**
[Study of DNA restriction fragment length polymorphism in the diagnosis of mucoviscidosis] Maciejko D, et al. **Pediatr Pol** 1989 Feb;64(2):81–7 (Eng. Abstr.) **(Pol)**
[Activity of enzymes in amniotic fluid in prenatal diagnosis of cystic fibrosis] Gorbunova VN, et al. **Genetika** 1989 Sep; 25(9):1664–72 (Eng. Abstr.) **(Rus)**
[Mucoviscidosis in adults] Nesvetov AM, et al. **Sov Med** 1990; (2):93–8 **(Rus)**
[Metabolic alkalosis in cystic fibrosis of the pancreas] Param T, et al. **Rev Chil Pediatr** 1988 Sep–Oct;59(5):322–5 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Current issues in the nutritional management of children with cystic fibrosis. Daniels LA, et al. **Aust Paediatr J** 1989 Oct; 25(5):261–6 (50 ref.)
Paradoxical effects of essential fatty acid supplementation on lipid profiles and sweat electrolytes in cystic fibrosis. Dodge JA, et al. **Br J Nutr** 1990 Mar;63(2):259–71

DRUG THERAPY

Aminoglycoside ototoxicity in cystic fibrosis. Evaluation by high-frequency audiometry. McRorie TI, et al. **Am J Dis Child** 1989 Nov;143(11):1328–32
Acute and long-term amiloride inhalation in cystic fibrosis lung disease. A rational approach to cystic fibrosis therapy. App EM, et al. **Am Rev Respir Dis** 1990 Mar;141(3):605–12
The use of steroids in cystic fibrosis. Auerbach HS. **Antibiot Chemother** 1989;42:254–6 (7 ref.)
Effect of misoprostol on fat malabsorption in cystic fibrosis [letter; comment] Littlewood JM, et al. **Arch Dis Child** 1989 Jul;64(7):1096–7 Comment on: Arch Dis Child 1988 Sep;63(9):1081–2.
Inhaled aminoglycosides in cystic fibrosis. Jew LL, et al. **DICP** 1990 Jul–Aug;24(7–8):711–2 (7 ref.)
A comparison of enteric coated microspheres with enteric coated tablet pancreatic enzyme preparations in cystic fibrosis. A controlled study. Vyas H, et al. **Eur J Pediatr** 1990 Jan;149(4):241–3
A double-blind, randomized study of sodium cromoglycate versus placebo in patients with cystic fibrosis and bronchial hyperreactivity. Sivan Y, et al. **J Allergy Clin Immunol** 1990 Mar;85(3):649–54
Totally implantable vascular access devices in cystic fibrosis: a four-year experience with fifty-eight patients. Morris JB, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):82–5
Placebo-controlled trial of misoprostol in cystic fibrosis. Robinson P, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul; 11(1):37–40
Cisapride and cystic fibrosis [letter] Santamaria F, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):539
Treatment failure after substitution of generic pancrelipase capsules. Correlation with in vitro lipase activity [see comments] Hendeles L, et al. **JAMA** 1990 May 9; 263(18):2459–61 Comment in: JAMA 1990 May 9;263(18):2491–2.
Meconium ileus equivalent in association with nebulised ipratropium bromide in cystic fibrosis [letter] [see comments] Mulherin D, et al. **Lancet** 1990 Mar 3; 335(8688):552 Comment in: Lancet 1990 May 19;335(8699):1224. Comment in: Lancet 1990 May 19;335(8699):1225.
Aerosolized amiloride for the treatment of lung disease in cystic fibrosis [letter] **N Engl J Med** 1990 Oct 4; 323(14):996–8
A pilot study of aerosolized amiloride for the treatment of lung disease in cystic fibrosis. Knowles MR, et al. **N Engl J Med** 1990 Apr 26;322(17):1189–94
Does lithium carbonate affect the ion transport abnormality in cystic fibrosis? [see comments] Anbar RD, et al. **Pediatr Pulmonol** 1990;8(2):82–8 Comment in: Pediatr Pulmonol 1990;8(2):72–3.
Lithium, clinical research, and cystic fibrosis [editorial; comment] Boat TF. **Pediatr Pulmonol** 1990;8(2):72–3 Comment on: Pediatr Pulmonol 1990;8(2):82–8.
Long term venous access using a totally implantable drug delivery system in patients with cystic fibrosis and bronchiectasis. Ball AB, et al. **Respir Med** 1989 Sep; 83(5):429–31
Improvement from pulmonary hyperinflation and bronchial obstruction following sympathomimetics systemically given in infants with broncho-pulmonary diseases. Kraemer R, et al. **Z Erkr Atmungsorgane** 1990;174(2):85–96
[Pseudomonas infection in mucoviscidosis. Therapeutic strategies] Foucaud P, et al. **Presse Med** 1990 May 26; 19(21):983–5 **(Fre)**
[Joint tolerance of pefloxacin and ofloxacin in children and adolescents with cystic fibrosis] Pertuiset E, et al. **Rev Rhum Mal Osteoartic** 1989 Nov;56(11):735–40 (35 ref.) (Eng. Abstr.) **(Fre)**
[The effect of ipratropium bromide on lung function in patients with cystic fibrosis] Wiebicke W, et al. **Pneumologie** 1990 Feb;44 Suppl 1:277–8 (Eng. Abstr.) **(Ger)**

EMBRYOLOGY

Vasoactive intestinal peptide and its receptors in fetuses with cystic fibrosis. Chastre E, et al. **Am J Physiol** 1989 Oct; 257(4 Pt 1):G561–9

ENZYMOLOGY

The imbalance between granulocyte neutral proteases and antiproteases in bronchial secretions from patients with cystic fibrosis. Suter S. **Antibiot Chemother** 1989;42:158–68 (47 ref.)
Two enteric coated microspheres in cystic fibrosis. Williams J, et al. **Arch Dis Child** 1990 Jun;65(6):594–7
Behaviour of serum immunoreactive trypsin after serum activation by enterokinase in normal and cystic fibrosis patients. Evidence of a trypsin–alpha 1–proteinase inhibitor complex in some cystic fibrosis patients. Carrère J, et al. **Biochim Biophys Acta** 1989 Dec 8;993(2–3):137–42
Increased elastase secretion by peripheral blood monocytes in cystic fibrosis patients. Jones MM, et al. **Clin Exp Immunol** 1990 Jun;80(3):344–9

EPIDEMIOLOGY

Birth distribution in cystic fibrosis and phenylketonuria. Machill G, et al. **Eur J Pediatr** 1990 Mar;149(6):406–7
[Cystic fibrosis: an emerging disease (letter)] Guiraldes E, et al. **Rev Med Chil** 1988 Dec;116(12):1336–8 **(Spa)**

GENETICS

Gene mapping in cystic fibrosis and its clinical applications. Williamson R. **Acta Paediatr Scand Suppl** 1989;363:7–9 (16 ref.)
Worldwide survey of the delta F508 mutation—report from the cystic fibrosis genetic analysis consortium [letter] **Am J Hum Genet** 1990 Aug;47(2):354–9
Population screening for cystic fibrosis [letter] Brock D. **Am J Hum Genet** 1990 Jul;47(1):164–5
The ethics of cystic fibrosis carrier screening: where do we stand? [letter] De Braekeleer M, et al. **Am J Hum Genet** 1990 Sep;47(3):580–1
Analysis of delta F508 does not confirm a previously reported recombination in a cystic fibrosis family [letter] Devoto M, et al. **Am J Hum Genet** 1990 May;46(5):1004–5
Is population screening for cystic fibrosis appropriate now? [letter] Gilbert F. **Am J Hum Genet** 1990 Feb;46(2):394–5
Cystic fibrosis mutations in the Hutterite Brethren. Klinger K, et al. **Am J Hum Genet** 1990 May;46(5):983–7
Rapid nonradioactive detection of the major cystic fibrosis mutation [letter] Rommens J, et al. **Am J Hum Genet** 1990 Feb;46(2):395–6
Physical localization of two DNA markers closely linked to the cystic fibrosis locus by pulsed-field gel electrophoresis. Rommens JM, et al. **Am J Hum Genet** 1989 Dec;45(6):932–41
Carrier screening for cystic fibrosis and other autosomal recessive diseases [letter] ten Kate LP. **Am J Hum Genet** 1990 Aug;47(2):359–61
Gene mapping and cystic fibrosis. Barker PE. **Am J Med Sci** 1990 Jan;299(1):69–72 (25 ref.)
Discovery of the cystic fibrosis gene: the interface of basic science and clinical medicine. Brody JS. **Am J Respir Cell Mol Biol** 1989 Nov;1(5):347–8 (7 ref.)
The cystic fibrosis gene is not likely to be involved in chronic obstructive pulmonary disease. Gasparini P, et al. **Am J Respir Cell Mol Biol** 1990 Mar;2(3):297–9
Reverse genetics and cystic fibrosis. Iannuzzi MC, et al. **Am J Respir Cell Mol Biol** 1990 Apr;2(4):309–16 (50 ref.)
Mild cystic fibrosis linked to chromosome 7q22 markers with an uncommon haplotype. McConkie-Rosell A, et al. **Ann Intern Med** 1989 Nov 15;111(10):797–801
The cystic fibrosis gene. Scambler PJ. **Arch Dis Child** 1989 Dec;64(12):1647–8 (6 ref.)
Identification of the cystic fibrosis gene [letter] **BMJ** 1990 Apr 14;300(6730):1015
Identification of the cystic fibrosis gene. Knight RA, et al. **BMJ** 1990 Feb 10;300(6721):345–6 (12 ref.)
Identification of the cystic fibrosis gene [letter] Peters TJ, et al. **BMJ** 1990 May 5;300(6733):1198
Identification of the cystic fibrosis gene [letter] [see comments] Slack J, et al. **BMJ** 1990 Mar 24;300(6727):812 Comment in: BMJ 1990 Apr 28;300(6732):1141.
Identification of the cystic fibrosis gene [letter; comment] Thornton JG, et al. **BMJ** 1990 Apr 28;300(6732):1141 Comment on: BMJ 1990 Mar 24;300(6727):812.
Multiple mutations in highly conserved residues are found in mildly affected cystic fibrosis patients. Dean M, et al. **Cell** 1990 Jun 1;61(5):863–70
Correction of the cystic fibrosis defect in vitro by retrovirus-mediated gene transfer. Drumm ML, et al. **Cell** 1990 Sep 21;62(6):1227–33
Cystic fibrosis deletion mutation detected by PCR-mediated site-directed mutagenesis. Friedman KJ, et al. **Clin Chem** 1990 Apr;36(4):695–6
A child with cystic fibrosis: I. Parental knowledge about the genetic transmission of CF and about DNA-diagnostic procedures. Denayer L, et al. **Clin Genet** 1990 Mar; 37(3):198–206
Haplotype analysis for CF-linked DNA polymorphisms in Switzerland. Liechti-Gallati S, et al. **Clin Genet** 1990 Jun; 37(6):442–9
DNA analysis of cystic fibrosis genotypes in relatives with equivocal sweat test results. Amos JA, et al. **Clin Invest Med** 1990 Feb;13(1):1–5
The origin of DNA associated with mucus glycoproteins in cystic fibrosis sputum. Lethem MI, et al. **Eur Respir J** 1990 Jan;3(1):19–23
The cystic fibrosis gene. Barrett KE, et al. **Gastroenterology** 1990 Feb;98(2):535–6
Haplotypes in cystic fibrosis patients with or without pancreatic insufficiency from four European populations. Devoto M, et al. **Genomics** 1989 Nov;5(4):894–8
Owl monkey gene map: evidence for a homologous human chromosome 7q region near the cystic fibrosis locus. Ma NS, et al. **Genomics** 1989 Oct;5(3):389–96
A new polymorphic locus, D7S411, isolated by cloning from preparative pulse-field gels is close to the mutation causing cystic fibrosis. Ramsay M, et al. **Genomics** 1990 Jan; 6(1):39–47
Genetic markers for oncogenes, growth factors, and cystic fibrosis. Dean M, et al. **Hamatol Bluttransfus** 1989;32:360–5
DNA sequence analysis of the KM19 locus linked to cystic fibrosis. Design of new oligonucleotides to remove non-specific PCR products. Anwar R, et al. **Hum Genet** 1990 Aug;85(3):319–23
Identification of sequences of chromosome 7 that are expressed in sweat gland epithelial cells. Burns J, et al. **Hum Genet** 1990 Jul;85(2):151–6
Prenatal diagnosis and linkage disequilibrium with cystic fibrosis for markers surrounding D7S8. Dean M, et al. **Hum Genet** 1990 Aug;85(3):275–8
Linkage disequilibrium between cystic fibrosis locus and three DNA markers, XV-2c, KM19 and MP6d-9, in 43 Spanish families. Fernández E, et al. **Hum Genet** 1990 Mar; 84(4):379–80
Genetic differences in cystic fibrosis patients with and without pancreatic insufficiency. An Italian collaborative study. Ferrari M, et al. **Hum Genet** 1990 Apr;84(5):435–8
Linkage disequilibrium and CF allele segregation analysis in cystic fibrosis families in Northern Ireland. Hill AJ, et al. **Hum Genet** 1989 Nov;83(4):391–4
Different haplotypes for cystic fibrosis-linked DNA polymorphisms in Polish and Dutch populations. Maciejko D, et al. **Hum Genet** 1989 Oct;83(3):220–2
Detection of a rare allele with the pMP6d-9/MspI RFLP near the cystic fibrosis locus. Nunes V, et al. **Hum Genet** 1989 Oct;83(3):305–6
Why is the cystic fibrosis gene so frequent? Romeo G, et al. **Hum Genet** 1989 Dec;84(1):1–5 (34 ref.)
Studies of RFLP closely linked to the cystic fibrosis locus throughout Europe lead to new considerations in populations genetics. Serre JL, et al. **Hum Genet** 1990 Apr; 84(5):449–54
Marker haplotype association with growth in German cystic

fibrosis patients. Tümmler B, et al. **Hum Genet** 1990 Feb; 84(3):267–73

The genotype of a new linked DNA marker, MP6d–9, is related to the clinical course of cystic fibrosis. Gasparini P, et al. **J Med Genet** 1990 Jan;27(1):17–20

Cystic fibrosis: after the gene [editorial] Harris A, et al. **J Med Genet** 1989 Dec;26(12):737–8

DNA markers near the cystic fibrosis locus: further analysis of the British population. Harris A. **J Med Genet** 1990 Jan; 27(1):39–41

Polymerase chain reaction (PCR) on fixed necropsy material [letter] Mueller RF, et al. **J Med Genet** 1990 Jan;27(1):67–8

Amplification of DNA for detection of cystic fibrosis–linked polymorphisms. Claustres M, et al. **J Pediatr** 1989 Nov; 115(5 Pt 1):749–52

The cystic fibrosis gene: medical and social implications for heterozygote detection. Wilfond BS, et al. **JAMA** 1990 May 23–30;263(20):2777–83

Cystic fibrosis: closing the gap [editorial] **Lancet** 1990 Sep 1;336(8714):539–40

Rapid screening for delta F508 deletion in cystic fibrosis [letter] **Lancet** 1989 Dec 2;2(8675):1345–6

Genetic analysis and pancreatic function in cystic fibrosis [letter] **Lancet** 1990 Jun 30;335(8705):1601

Cystic fibrosis genetics in southern Europe [letter] Anglani F, et al. **Lancet** 1990 Aug 11;336(8711):379–80

Screening for cystic fibrosis: use of delta F508 mutation [letter] Bowling FG, et al. **Lancet** 1990 Apr 14; 335(8694):925–6

Abnormal distribution of cystic fibrosis delta F508 allele in adults with chronic bronchial hypersecretion [letter] Dumur V, et al. **Lancet** 1990 Jun 2;335(8701):1340

Delta F508 gene deletion in cystic fibrosis in southern Europe [letter] Estivill X, et al. **Lancet** 1989 Dec 9;2(8676):1404

Frequency of delta F508 mutation on cystic fibrosis chromosomes in UK [letter] McIntosh I, et al. **Lancet** 1989 Dec 9;2(8676):1404–5

Detection of delta F508 deletion by amplification refractory mutation system [letter] Newton CR, et al. **Lancet** 1990 May 19;335(8699):1217–9

Gene/energy interaction in cystic fibrosis [letter] O'Rawe A, et al. **Lancet** 1990 Mar 3;335(8688):552–3

Linked marker haplotypes and the delta F508 mutation in adults with mild pulmonary disease and cystic fibrosis. Santis G, et al. **Lancet** 1990 Jun 16;335(8703):1426–9

Genetic influences on pulmonary severity in cystic fibrosis [letter] Santis G, et al. **Lancet** 1990 Feb 3;335(8684):294

Preconception genetic diagnosis of cystic fibrosis [letter] Strom CM, et al. **Lancet** 1990 Aug 4;336(8710):306–7

Carrier screening for Tay–Sachs disease and cystic fibrosis [letter; comment] ten Kate LP, et al. **Lancet** 1990 Jun 23; 335(8704):1527–8 Comment on: Lancet 1990 Apr 7;335(8693):856.

Carrier screening for cystic fibrosis [letter] [see comments] Ten Kate LP, et al. **Lancet** 1989 Oct 21;2(8669):973–4 Comment in: Lancet 1989 Dec 9;2(8676):1403–4. Comment in: Lancet 1990 Apr 7;335(8693):856.

Genetic counselling for cystic fibrosis based upon mutation/haplotype analysis [letter] Watson E, et al. **Lancet** 1990 Jul 21;336(8708):190–1

A simple assay for the screening of the cystic fibrosis allele in carriers of the Phe508 deletion mutation. Chong GL, et al. **Mayo Clin Proc** 1990 Aug;65(8):1072–6

Cystic fibrosis miscalculation [letter; comment] Burroughs BR. **MCN** 1989 Nov–Dec;14(6):416 Comment on: MCN 1989 May–Jun;14(3):196–8.

A question of ethics [letter; comment] Wink DM. **MCN** 1990 Mar–Apr;15(2):74 Comment on: MCN 1989 May–Jun;14(3):196–8.

The frequency of the common (delta F508) cystic fibrosis mutation in the Australian population [letter] Nelson PV, et al. **Med J Aust** 1990 Mar 19;152(6):328

Pulmonary dehydration and infection in cystic fibrosis: evidence that ethanol activates alginate gene expression and induction of mucoidy in Pseudomonas aeruginosa. DeVault JD, et al. **Mol Microbiol** 1990 May;4(5):737–45

Mutation analysis in cystic fibrosis [letter; comment] **N Engl J Med** 1990 Jul 5;323(1):62–3 Comment on: N Engl J Med 1990 Feb 1;322(5):291–6.

DNA analysis using polymerase chain reactions in the families of children with cystic fibrosis. Sullivan MJ, et al. **N Z Med J** 1990 May 9;103(889):216–7

PCR test for cystic fibrosis deletion [letter] Ballabio A, et al. **Nature** 1990 Jan 18;343(6255):220

A cluster of cystic fibrosis mutations in the first nucleotide-binding fold of the cystic fibrosis conductance regulator protein [see comments] Cutting GR, et al. **Nature** 1990 Jul 26;346(6282):366–9 Comment in: Nature 1990 Jul 26;346(6282):312–3.

Cystic fibrosis. Righting the wrong protein [news] Quinton PM. **Nature** 1990 Sep 20;347(6290):226

Cystic fibrosis. A transport problem? [news; comment] Ringe D, et al. **Nature** 1990 Jul 26;346(6282):312–3 Comment on: Nature 1990 Jul 26;346(6282):362–5. Comment on: Nature 1990 Jul 26;346(6282):366–9.

Screening for cystic fibrosis [letter] Stewart AD. **Nature** 1989 Oct 26;341(6244):696

A frame-shift mutation in the cystic fibrosis gene. White MB, et al. **Nature** 1990 Apr 12;344(6267):665–7

Approaches to localizing disease genes as applied to cystic fibrosis. Dean M, et al. **Nucleic Acids Res** 1990 Jan 25; 18(2):345–50

PCR detection of the pKM.19/ScrfI RFLP (D7S23), a marker closely linked to the cystic fibrosis mutation. Nunes V, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4957

ScrfI restriction fragment length polymorphism at the D7S23 locus (probe pKM. 19), closely linked to cystic fibrosis. Nunes V, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1318

Community attitudes to cystic fibrosis carrier screening [letter; comment] Ten Kate LP, et al. **Prenat Diagn** 1990 Apr;10(4):275–6 Comment on: Prenat Diagn 1989 Oct;9(10):727–34.

Multipoint mapping and linkage based upon affected pedigree members—Genetic Analysis Workshop 6. Proceedings of a workshop. Long Beach, Mississippi, October 10–12, 1988. **Prog Clin Biol Res** 1989;329:1–218

A simple scheme for preliminary ordering of multiple loci: application to 45 CF families. Falk CT. **Prog Clin Biol Res** 1989;329:17–22

Multipoint analysis of 47 loci on chromosome 7q. Goldgar DE, et al. **Prog Clin Biol Res** 1989;329:23–8

Linkage map of anonymous loci near the CF gene. Haines JL, et al. **Prog Clin Biol Res** 1989;329:29–34

Multipoint linkage analysis of the cystic fibrosis region. Lander ES, et al. **Prog Clin Biol Res** 1989;329:47–52

Ordering loci in the cystic fibrosis region. Petersen GM, et al. **Prog Clin Biol Res** 1989;329:53–6

Disease associations and disequilibrium mapping. Robinson WP, et al. **Prog Clin Biol Res** 1989;329:57–62

Genetic Analysis Workshop 6: Multipoint mapping of loci in the region of cystic fibrosis. Spence MA, et al. **Prog Clin Biol Res** 1989;329:1–9

Locating the cystic fibrosis gene on the basis of linkage disequilibrium with markers? Weir BS. **Prog Clin Biol Res** 1989;329:81–6

Cystic fibrosis: towards the basic defect. Geddes DM, et al. **Q J Med** 1988 Dec;69(260):945–7 (24 ref.)

Winning candidate. A painstaking search identifies the gene for cystic fibrosis. Beardsley TM. **Sci Am** 1989 Nov; 261(5):28–30

To test or not to test? [news] Roberts L. **Science** 1990 Jan 5;247(4938):17–9

SV40-mediated tumor selection and chromosome transfer to enrich for cystic fibrosis region. Porteous DJ, et al. **Somat Cell Mol Genet** 1990 Jan;16(1):29–38

[Screening for carrier state of the cystic fibrosis gene] ten Kate LP, et al. **Ned Tijdschr Geneeskd** 1989 Dec 2; 133(48):2402–4 **(Dut)**

[Isolation of the cystic fibrosis gene] Kere J. **Duodecim** 1990; 106(2):157–9 (14 ref.) **(Fin)**

[DNA amplification in the study of polymorphisms linked to the cystic fibrosis gene] Claustres M, et al. **J Genet Hum** 1989 Sep;37(3):243–9 (Eng. Abstr.) **(Fre)**

[Linkage disequilibrium and DNA markers associated with the gene for cystic fibrosis] Ferec C, et al. **J Genet Hum** 1989 Dec;37(4–5):407–23 (Eng. Abstr.) **(Fre)**

[An at-risk pregnancy of a carrier of cystic fibrosis (mucoviscidosis) with a new partner] Reiss J, et al. **Monatsschr Kinderheilkd** 1989 Aug;137(8):451–3 (Eng. Abstr.) **(Ger)**

[Genetic study in 8 families with a child with cystic fibrosis] Riedler J, et al. **Wien Klin Wochenschr** 1989 Sep 1; 101(16):548–51 (Eng. Abstr.) **(Ger)**

[Genetic aspects of cystic fibrosis] Setoyama C, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):1026–9 **(Jpn)**

[The cystic fibrosis gene has been found—now what?] Boman H. **Tidsskr Nor Laegeforen** 1990 Feb 28;110(6):747–8 (13 ref.) **(Nor)**

[The cystic fibrosis gene is identified—what is gained?] Stanghelle JK, et al. **Tidsskr Nor Laegeforen** 1990 Jan 10; 110(1):18–9 **(Nor)**

[Use of a chain reaction method of DNA synthesis for analyzing the frequency of restriction polymorphism of the CS–7 DNA locus in the population and in families of patients with mucoviscidosis] Shvarts EI, et al. **Dokl Akad Nauk SSSR** 1989;307(2):467–9 **(Rus)**

[Polymorphism of nucleotide sequences of human genomic DNA linked to a mucoviscidosis locus] Voronina OV, et al. **Mol Gen Mikrobiol Virusol** 1990 Apr;(4):14–7 (Eng. Abstr.) **(Rus)**

[Contribution of molecular genetics to the detection of carriers of severe genetic diseases] Baiget Bastus M, et al. **An Esp Pediatr** 1989 Jul;31(1):1–4 **(Spa)**

[Prenatal diagnosis of cystic fibrosis, using DNA markers, in Spanish families: experience during 1987–1989] Casals Senent T, et al. **An Esp Pediatr** 1990 Apr;32(4):287–92 (Eng. Abstr.) **(Spa)**

[Molecular detection of cystic fibrosis in a Mexican family. From molecular biology to medicine] Fernández M, et al. **Gac Med Mex** 1989 Jan–Feb;125(1–2):45–50 **(Spa)**

[Use of the polymerase chain reaction technic in the genetic analysis of cystic fibrosis] Chillón M, et al. **Med Clin (Barc)** 1990 Mar 31;94(12):444–7 (Eng. Abstr.) **(Spa)**

[Identification of the cystic fibrosis gene. Better therapeutic methods can be expected] Kollberg H. **Lakartidningen** 1989 Nov 29;86(48):4237–8 **(Swe)**

IMMUNOLOGY

Relationship of hypergammaglobulinemia, circulating immune complexes, and histocompatibility antigen profiles in patients with cystic fibrosis. Jones MM, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1636–9

Antibody response to Pseudomonas aeruginosa antigens in cystic fibrosis. Pedersen SS, et al. **Antibiot Chemother** 1989; 42:130–53 (142 ref.)

Increased levels of IgG subclasses specific for Pseudomonas aeruginosa exoenzyme and polysaccharide antigens in chronically infected patients with cystic fibrosis. Albus A, et al. **APMIS** 1989 Dec;97(12):1146–8

Serum IgA antibodies against Pseudomonas aeruginosa in cystic fibrosis. Brett MM, et al. **Arch Dis Child** 1990 Mar; 65(3):259–63

Pseudomonas aeruginosa antibodies in blood spots from patients with cystic fibrosis. Thanasekaraan V, et al. **Arch Dis Child** 1989 Nov;64(11):1599–603

IgG antibodies to Aspergillus fumigatus in cystic fibrosis [letter; comment] Vazquez C, et al. **Arch Dis Child** 1989 Jul;64(7):1094–5 Comment on: Arch Dis Child 1988 Aug;63(8):953–7.

Sequential serological responses to Aspergillus fumigatus in patients with cystic fibrosis. Use of antigen 'stretching' to delineate IgG and IgE activity. Edwards JH, et al. **Clin Exp Immunol** 1990 Jul;81(1):101–8

T- and B-cell dysregulation of IgE synthesis in cystic fibrosis patients with allergic bronchopulmonary aspergillosis. Knutsen AP, et al. **Clin Immunol Immunopathol** 1990 Apr; 55(1):129–38

Circulating immune complexes, antibodies to Pseudomonas aeruginosa, and pulmonary status in cystic fibrosis. Lagacé J, et al. **J Clin Lab Immunol** 1989 Sep;30(1):7–11

Immunoglobulin A and immunoglobulin G antibody responses to alginates from Pseudomonas aeruginosa in patients with cystic fibrosis. Pedersen SS, et al. **J Clin Microbiol** 1990 Apr;28(4):747–55

Antibody response of fibrocystic patients to homologous 0-typable and 0-defective isolates of Pseudomonas aeruginosa. MacDougall J, et al. **J Clin Pathol** 1990 Jul; 43(7):567–71

Monocytes in cystic fibrosis: responsiveness to microbial stimuli. Thomassen MJ, et al. **Pediatr Pulmonol** 1990; 8(3):178–81

Serotype-specific serum IgG antibodies to lipopolysaccharides of Pseudomonas aeruginosa in cystic fibrosis: correlation to disease, subclass distribution, and experimental protective capacity. Schaad UB, et al. **Pediatr Res** 1990 May;27(5):508–13

METABOLISM

Two cases of cystic fibrosis in Japanese children: studies on the essential fatty acid and prostaglandin metabolism. Igarashi N, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Apr; 31(2):205–10

Disturbance of fluid and electrolyte transport in cystic fibrosis epithelia. Bijman J. **Acta Paediatr Scand Suppl** 1989; 363:10–3 (23 ref.)

Epithelial cell dysfunction in cystic fibrosis: implications for airways disease. Boat TF, et al. **Acta Paediatr Scand Suppl** 1989;363:25–9; discussion 29–30 (15 ref.)

The molecular basis of chloride channel dysregulation in cystic fibrosis. de Jonge HR. **Acta Paediatr Scand Suppl** 1989;363:14–8; discussion 18–9 (23 ref.)

Trypsine-like esteroproteases, kinin and kininases in submandibular gland, colon and pulmonary lavage fluid of mouse model for human cystic fibrosis (CF). Catanzaro OL, et al. **Adv Exp Med Biol** 1989;247B:639–42

Defective regulation of epithelial Cl- permeability and protein secretion in cystic fibrosis: the putative basic defect. Kirk KL. **Am J Kidney Dis** 1989 Oct;14(4):333–8 (37 ref.)

Cyclic nucleotide responses in control and cystic fibrosis labial glands. Allan BJ, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1320–6

Phosphorylation-dependent regulation of apical membrane chloride channels in normal and cystic fibrosis airway epithelium. Welsh MJ, et al. **Ann N Y Acad Sci** 1989; 574:44–51

Excessive faecal losses of vitamin A (retinol) in cystic fibrosis. Ahmed F, et al. **Arch Dis Child** 1990 Jun;65(6):589–93

Non-invasive assessment of intraluminal lipolysis using a 13CO2 breath test. Murphy MS, et al. **Arch Dis Child** 1990 Jun;65(6):574–8

Carcinoembryonic antigen, alpha 1-antitrypsin, and alpha-fetoprotein in the pancreas of patients with cystic fibrosis. Scheele PM, et al. **Arch Pathol Lab Med** 1989 Oct; 113(10):1142–6

Saliva from cystic fibrosis patients contains an unusual form of epidermal growth factor. Aubert B, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1144–50

The disulphide-bond content and rheological properties of intestinal mucins from normal subjects and patients with cystic fibrosis. Mantle M, et al. **Biochem J** 1990 Mar 1; 266(2):597–604

Defective phosphorylation of a calmodulin-binding protein in cystic-fibrosis submandibular glands. Shori DK, et al. **Biochem J** 1989 Oct 15;263(2):613–6

Electrolyte concentrations in control and cystic fibrosis submandibular saliva. Davies H, et al. **Biochem Soc Trans** 1990 Jun;18(3):447–8

(Dys)regulation of epithelial chloride channels. de Jonge HR, et al. **Biochem Soc Trans** 1989 Oct;17(5):816–8

A novel method for culturing sweat gland epithelia: comparison of normal and cystic fibrosis tissues. Brayden DJ, et al. **Br J Clin Pharmacol** 1990 Feb;29(2):235–8

Altered sensitivity to amiloride in cystic fibrosis. Observations using cultured sweat glands. Cuthbert AW, et al. **Br J Clin Pharmacol** 1990 Feb;29(2):227–34

Cystic fibrosis affects chloride and sodium channels in human airway epithelia. Duszyk M, et al. **Can J Physiol Pharmacol** 1989 Oct;67(10):1362–5

Additional fucosyl residues on membrane glycoproteins but not a secreted glycoprotein from cystic fibrosis fibroblasts. Wang YM, et al. **Clin Chim Acta** 1990 May;188(3):193–210

Increased renal clearance of cefsulodin due to higher glomerular filtration rate in cystic fibrosis. Hedman A, et al. **Clin Pharmacokinet** 1990 Feb;18(2):168–75

Pharmacokinetics of ticarcillin in patients with cystic fibrosis: a controlled prospective study. de Groot R, et al. **Clin Pharmacol Ther** 1990 Jan;47(1):73–8

Altered disposition of fleroxacin in patients with cystic fibrosis. Mimeault J, et al. **Clin Pharmacol Ther** 1990 May; 47(5):618–28

Airway beta-adrenoceptor number in cystic fibrosis and asthma. Sharma RK, et al. **Clin Sci** 1990 Apr;78(4):409–17

Cyclic nucleotides and disease. Wolfe L, et al. **Curr Opin Cell Biol** 1989 Apr;1(2):215–9 (36 ref.)

Physical properties of purified human respiratory mucus glycoproteins: effects of sodium chloride concentration on the aggregation properties and shape. Chace KV, et al. **Exp Lung Res** 1989 Sep;15(5):721–37

Cystic fibrosis: a disease in electrolyte transport. Quinton PM. **FASEB J** 1990 Jul;4(10):2709–17 (49 ref.)

Abnormal regulation of ion channels in cystic fibrosis epithelia. Welsh MJ. **FASEB J** 1990 Jul;4(10):2718–25 (48 ref.)

Electrophoretical patterns of seminal plasma proteins in patients with cystic fibrosis. Marchini M, et al. **Fertil Steril** 1990 Mar;53(3):541–5

Enhanced intestinal glucose and alanine transport in cystic fibrosis. Baxter P, et al. **Gut** 1990 Jul;31(7):817–20

Comprehensive study of the biliary bile acid composition of patients with cystic fibrosis and associated liver disease before and after UDCA administration. Nakagawa M, et al. **Hepatology** 1990 Aug;12(2):322–34

Factors affecting the dietary habits of adolescents with cystic fibrosis. Wilson-Goodman V, et al. **J Am Diet Assoc** 1990 Mar;90(3):429–31

A cystic fibrosis phenotype in cells cultured from sweat gland secretory coil. Altered kinetics of 36Cl efflux. Wood LC, et al. **J Biol Chem** 1990 Aug 5;265(22):12796–800

Complement receptor expression on neutrophils at an inflammatory site, the Pseudomonas-infected lung in cystic fibrosis. Berger M, et al. **J Clin Invest** 1989 Oct; 84(4):1302–13

Na+, K+, H+, Cl-, and Ca2+ concentrations in cystic fibrosis eccrine sweat in vivo and in vitro. Sato K, et al. **J Lab Clin Med** 1990 Apr;115(4):504–11

Physicochemical characterization and biological activity of intrinsic factor in cystic fibrosis. Monin B, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):87–94

Protein turnover in malnourished patients with cystic fibrosis: effects of elemental and nonelemental nutritional supplements. Pelekanos JT, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):339–43

Total body potassium in cystic fibrosis. Shepherd RW, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):200–5

Essential fatty acid deficient rats in the study of cystic fibrosis: an X-ray microanalytical and ultrastructural study in chronically reserpinized rats. Hjelte L, et al. **J Submicrosc Cytol Pathol** 1990 Jul;22(3):409–14

Towards the biochemical defect in cystic fibrosis [editorial] **Lancet** 1989 Dec 16;2(8677):1433

The response of chloride transport to cyclic AMP, calcium and hypotonic shock in normal and cystic fibrosis fibroblasts. Mastrocola T, et al. **Life Sci** 1990;46(23):1661–9

cAMP dependent chloride conductance is not different in cystic fibrosis fibroblasts. Squassoni E, et al. **Life Sci** 1990; 46(18):1265–70

Abnormal protein translocation as the elusive cause of cystic fibrosis: an hypothesis. Herd JK, et al. **Med Hypotheses** 1990 Mar;31(3):177–87 (101 ref.)

Chloride transport in cultured nasal epithelium of cystic fibrosis patients. Verbeek E, et al. **Pflugers Arch** 1990 Feb; 415(5):540–6

Cl- permeability of human sweat duct cells monitored with fluorescence-digital imaging microscopy: evidence for reduced plasma membrane Cl- permeability in cystic fibrosis. Ram SJ, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10166–70

The effect of nicardipine, a calcium channel blocker, on the sweat test in adult patients with cystic fibrosis. Roberts CM, et al. **Respir Med** 1989 Nov;83(6):479–80

Cyclosporine bioavailability in heart-lung transplant candidates with cystic fibrosis. Cooney GF, et al. **Transplantation** 1990 Apr;49(4):821–3

MICROBIOLOGY

Host response to Pseudomonas aeruginosa. Döring G. **Acta Paediatr Scand Suppl** 1989;363:37–9; discussion 40 (16 ref.)

Strategies and perspectives in treatment of respiratory infections. Neijens HJ. **Acta Paediatr Scand Suppl** 1989; 363:66–72; discussion 72–3 (48 ref.)

Endobronchial infection in cystic fibrosis. Smith AL, et al. **Acta Paediatr Scand Suppl** 1989;363:31–6 (8 ref.)

Immunohistopathologic localization of Pseudomonas aeruginosa in lungs from patients with cystic fibrosis. Implications for the pathogenesis of progressive lung deterioration. Baltimore RS, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1650–61

Physicochemical properties of alginate from mucoid strains of Pseudomonas aeruginosa isolated from cystic fibrosis patients. Russell NJ, et al. **Antibiot Chemother** 1989;42:62–6 (13 ref.)

In vitro activities of combinations of aztreonam, ciprofloxacin, and ceftazidime against clinical isolates of Pseudomonas aeruginosa and Pseudomonas cepacia from patients with cystic fibrosis. Bosso JA, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):487–8

In vitro activity of E-1040, a 3-substituted cephalosporin, against pathogens from cystic fibrosis sputum. Stutman HR, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1366–70

Typing of polyagglutinable Pseudomonas aeruginosa isolates from cystic fibrosis patients. Ojeniyi B, et al. **APMIS** 1990 May;98(5):423–31

Treatment of pseudomonas aeruginosa colonisation in cystic fibrosis. Steinkamp G, et al. **Arch Dis Child** 1989 Jul; 64(7):1022–8

Bacterial reservoirs in cystic fibrosis. Taylor CJ, et al. **Arch Dis Child** 1990 Feb;65(2):175–7

Comparison of inhibitory and bactericidal activity of antipseudomonal antibiotics against Pseudomonas aeruginosa isolates from cystic fibrosis patients. Ansorg R, et al. **Chemotherapy** 1990;36(3):222–9

Isolation of Sporosarcina ureae from a bronchial biopsy in a child with cystic fibrosis [letter] Chomarat M, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):302–3

The pathology of fungal infection and colonization in patients with cystic fibrosis. Bhargava V, et al. **Hum Pathol** 1989 Oct;20(10):977–86

Mucinophilic and chemotactic properties of Pseudomonas aeruginosa in relation to pulmonary colonization in cystic fibrosis. Nelson JW, et al. **Infect Immun** 1990 Jun; 58(6):1489–95

Clinical significance of Staphylococcus aureus in cystic fibrosis. Marks MI. **Infection** 1990 Jan-Feb;18(1):53–6 (10 ref.)

The role of bacterial adhesion in cystic fibrosis including the staphylococcal aspect. Ramphal R. **Infection** 1990 Jan-Feb;18(1):61–4 (25 ref.)

Persistence of Pseudomonas aeruginosa during ciprofloxacin therapy of a cystic fibrosis patient: transient resistance to quinolones and protein F-deficiency. Chamberland S, et al. **J Antimicrob Chemother** 1990 Jun;25(6):995–1010

Effect of Pseudomonas cepacia colonization on survival and pulmonary function of cystic fibrosis patients. Lewin LO, et al. **J Clin Epidemiol** 1990;43(2):125–31

Phenotypic conversion of Pseudomonas aeruginosa in cystic fibrosis. Fegan M, et al. **J Clin Microbiol** 1990 Jun; 28(6):1143–6

Conversion of Pseudomonas aeruginosa to the phenotype characteristic of strains from patients with cystic fibrosis. Speert DP, et al. **J Clin Microbiol** 1990 Feb;28(2):188–94

Ecology of Pseudomonas aeruginosa in patients with cystic fibrosis. Horrevorts AM, et al. **J Med Microbiol** 1990 Feb; 31(2):119–24

The incidence of anaerobes in the sputum of patients with cystic fibrosis. Jewes LA, et al. **J Med Microbiol** 1990 Apr; 31(4):271–4

Incidence of common pyocin types of Pseudomonas aeruginosa from patients with cystic fibrosis and chronic airways diseases. Tredgett MW, et al. **J Med Microbiol** 1990 Jul;32(3):169–72

Mucoid Pseudomonas aeruginosa in cystic fibrosis: mutations in the muc loci affect transcription of the algR and algD genes in response to environmental stimuli. Deretic V, et al. **Mol Microbiol** 1990 Feb;4(2):189–96

Infective respiratory exacerbations in young adults with cystic fibrosis: role of viruses and atypical microorganisms. Ong EL, et al. **Thorax** 1989 Sep;44(9):739–42

[In vitro bactericidal activity of tobramycin and amikacin alone or in combination against Pseudomonas aeruginosa isolated from patients with cystic fibrosis] Bertrou A, et al. **Pathol Biol (Paris)** 1990 May;38(5):366–75 (Eng. Abstr.) **(Fre)**

[In vitro effect of various antibiotics: beta lactams, aminoglycosides and fluoroquinolones alone and in combination against P. aeruginosa isolated from patients with mucoviscidosis] Croize J, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):573–7 (Eng. Abstr.) **(Fre)**

[Streptococcus pneumoniae serotypes in children with chronic inflammatory diseases of the respiratory organs] Katosova LK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Feb;(2):32–8 (Eng. Abstr.) **(Rus)**

MORTALITY

Diabetes mellitus in patients with cystic fibrosis: effect on survival. Reisman J, et al. **Pediatrics** 1990 Sep;86(3):374–7

[Influence of nutrition on the survival of patients with cystic fibrosis (editorial)] Brook V. **Harefuah** 1990 Apr 1; 118(7):419–21 **(Heb)**

[Increased survival rates of children with cystic fibrosis] Vázquez Cordero C, et al. **An Esp Pediatr** 1990 May; 32(5):407–12 (34 ref.) (Eng. Abstr.) **(Spa)**

NURSING

Caring for adults who have cystic fibrosis. Naccarato M, et al. **Am J Nurs** 1989 Nov;89(11):1462–5

PATHOLOGY

Characterization of the cell kinetics and growth properties of cystic fibrosis diploid fibroblasts in vitro. Bolton WE, et al. **Am J Hum Genet** 1975 May;27(3):394–409

Human tracheobronchial submucosal gland cells in culture. Sommerhoff CP, et al. **Am J Respir Cell Mol Biol** 1990 Jan;2(1):41–50

Ultrastructure of airway epithelial cell membranes among patients with cystic fibrosis. Carson JL, et al. **Hum Pathol** 1990 Jun;21(6):640–7

Long-term culture of normal and cystic fibrosis epithelial cells grown under serum-free conditions. Gruenert DC, et al. **In Vitro Cell Dev Biol** 1990 Apr;26(4):411–8

Transformed sweat gland and nasal epithelial cell lines from control and cystic fibrosis individuals. Buchanan JA, et al. **J Cell Sci** 1990 Jan;95 (Pt 1):109–23

Sclerosing cholangitis and hepatic microvesicular steatosis in cystic fibrosis and chronic pancreatitis [letter] MacSween RN. **J Clin Pathol** 1990 Feb;43(2):173

Ultrastructural morphology of the lung in cystic fibrosis. Dovey M, et al. **J Submicrosc Cytol Pathol** 1989 Jul; 21(3):521–34

A cystic fibrosis pancreatic adenocarcinoma cell line. Schoumacher RA, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):4012–6

[Massive myocardial necrosis and fibrosis in pancreatic cystic fibrosis] Oliver Morales J, et al. **An Esp Pediatr** 1989 Dec; 31(6):597–8 **(Spa)**

PHYSIOPATHOLOGY

The pathophysiology of the pancreatic defect in cystic fibrosis. Durie PR. **Acta Paediatr Scand Suppl** 1989; 363:41–4 (12 ref.)

Nutritional status, growth and development in children undergoing intensive treatment for cystic fibrosis. Gaskin KJ, et al. **Acta Paediatr Scand Suppl** 1990;366:106–10

Cystic fibrosis—from lung damage to symptoms. Geddes DM, et al. **Acta Paediatr Scand Suppl** 1989;363:52–6; discussion 56–7 (14 ref.)

Gastrointestinal dysfunction and its effects on nutrition in CF. Heymans HS. **Acta Paediatr Scand Suppl** 1989; 363:74–8; discussion 78–9 (30 ref.)

Relation between essential fatty acid metabolism and gastrointestinal symptoms in cystic fibrosis. Strandvik B. **Acta Paediatr Scand Suppl** 1989;363:58–63; discussion 63–5 (51 ref.)

Body composition of adult cystic fibrosis patients and control subjects as determined by densitometry, bioelectrical impedance, total-body electrical conductivity, skinfold measurements, and deuterium oxide dilution. Newby MJ, et al. **Am J Clin Nutr** 1990 Aug;52(2):209–13

Altered electrical potential profile of human reabsorptive sweat duct cells in cystic fibrosis. Reddy MM, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):C722–6

Localization of Cl- conductance in normal and Cl- impermeability in cystic fibrosis sweat duct epithelium. Reddy MM, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):C727–35

Effect of cystic fibrosis on inhaled aerosol boluses. Anderson PJ, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1317–24

Tracheal size and distensibility in patients with cystic fibrosis. Brooks LJ. **Am Rev Respir Dis** 1990 Feb;141(2):513–6

Airway mucosal bioelectric potential difference in cystic fibrosis after lung transplantation. Wood A, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1645–9

Small intestinal permeability and orocaecal transit time in cystic fibrosis. Dalzell AM, et al. **Arch Dis Child** 1990 Jun; 65(6):585–8

Importance of respiratory rate as an indicator of respiratory dysfunction in patients with cystic fibrosis. Browning IB, et al. **Chest** 1990 Jun;97(6):1317–21

The prevalence of cutaneous hypersensitivity and its relationship to Pseudomonas colonization and outcome in cystic fibrosis. Hamilton AH, et al. **Clin Exp Allergy** 1990 Jul;20(4):415–9

Pulmonary diffusing capacity in adult cystic fibrosis: reduced positional changes are partially reversed by hyperoxia. Cotton DJ, et al. **Clin Invest Med** 1990 Apr;13(2):82–91

Relationship between airway obstruction, desaturation during exercise and nocturnal hypoxaemia in cystic fibrosis patients. Versteegh FG, et al. **Eur Respir J** 1990 Jan; 3(1):68–73

Quantitating the effect of cystic fibrosis on linear growth by mathematical modelling of longitudinal growth curves. Barkhouse LB, et al. **Growth Dev Aging** 1989 Winter; 53(4):185–90

Quantitating the effect of cystic fibrosis on linear growth by mathematical modelling of longitudinal curves: appendix. Fahey J. **Growth Dev Aging** 1989 Winter; 53(4):191–4

Respiratory impedance and multibreath N2 washout in healthy, asthmatic, and cystic fibrosis subjects. Lutchen KR, et al. **J Appl Physiol** 1990 May;68(5):2139–49

Chloride secretory response of cystic fibrosis human airway epithelia. Preservation of calcium but not protein kinase C- and A-dependent mechanisms. Boucher RC, et al. **J Clin Invest** 1989 Nov;84(5):1424–31

Activation of normal and cystic fibrosis Cl- channels by voltage, temperature, and trypsin. Welsh MJ, et al. **J Clin Invest** 1989 Dec;84(6):2002–7

Pulmonary function and clinical course in patients with cystic fibrosis after pulmonary colonization with Pseudomonas aeruginosa. Kerem E, et al. **J Pediatr** 1990 May; 116(5):714–9

Volume and emptying of the gallbladder in patients with cystic fibrosis. Santamaria F, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):303–6

Water secretion and embryological layers in cystic fibrosis. Baxter P. **J R Coll Physicians Lond** 1990 Apr;24(2):98–100

The adrenergic system in lymphocytes from children with cystic fibrosis. Schuster A, et al. **Klin Wochenschr** 1989 Aug 17;67(16):799–803

Exposure of children with cystic fibrosis to environmental tobacco smoke [see comments] Rubin BK. **N Engl J Med** 1990 Sep 20;323(12):782–8 Comment in: N Engl J Med 1990 Sep 20;323(12):823–5.

The ocular surface in cystic fibrosis. Sheppard JD, et al. **Ophthalmology** 1989 Nov;96(11):1624–30

Exercise tolerance and effects of training in young patients with cystic fibrosis and mild airway obstruction. Braggion C, et al. **Pediatr Pulmonol** 1989;7(3):145–52

Effects of acute viral respiratory tract infections in patients with cystic fibrosis. Hordvik NL, et al. **Pediatr Pulmonol** 1989;7(4):217–22

Changes in airflow obstruction and oxygen saturation in response to exercise and bronchodilators in cystic fibrosis. Macfarlane PI, et al. **Pediatr Pulmonol** 1990;8(1):4–11

Correlation of IgE antibody titer to Aspergillus fumigatus with decreased lung function in cystic fibrosis. Nicolai T, et al. **Pediatr Pulmonol** 1990;8(1):12–5

Longitudinal response of pulmonary function to bronchodilators in cystic fibrosis. Pattishall EN. **Pediatr Pulmonol** 1990;9(2):80–5

Properties and regulation of chloride channels in cystic fibrosis and normal airway cells. Kunzelmann K, et al. **Pflugers Arch** 1989 Nov;415(2):172–82

Fatty acids inhibit apical membrane chloride channels in airway epithelia. Anderson MP, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7334–8

Is regulation of a chloride channel in lymphocytes affected in cystic fibrosis? [letter; comment] Hagiwara G, et al. **Science** 1989 Nov 24;246(4933):1049–50 Comment on: Science 1989 Feb 3;243(4891):657–60.

Chloride channels in cystic fibrosis patients. Wine JJ, et al. **Science** 1990 Jan 12;247(4939):222

[Mucoviscidosis and marathon running. Evaluation of physical endurance in patients with cystic fibrosis] Wunderlich P, et al. **Kinderarztl Prax** 1989 Nov; 57(11):531–8 (Eng. Abstr.) (Ger)

[Characteristics of inspiratory flow-volume curves in children with bronchial asthma and patients with cystic fibrosis] Holmann JC, et al. **Schweiz Med Wochenschr** 1989 Dec 2;119(48):1713–8 (Eng. Abstr.) (Ger)

[Characteristics of endogenous and exogenous functions of the pancreas and blood lipid spectrum in children with mucoviscidosis] Turkina TI, et al. **Pediatriia** 1989;(12):85–6 (Rus)

PREVENTION & CONTROL

The American Society of Human Genetics statement on cystic fibrosis screening. Caskey CT, et al. **Am J Hum Genet** 1990 Feb;46(2):393

Cystic fibrosis screening: research alternatives needed [letter] Lieberman J. **Lancet** 1990 May 26;335(8700):1284

Screening for cystic fibrosis [letter; comment] Roderick PJ, et al. **Lancet** 1989 Dec 9;2(8676):1403–4 Comment on: Lancet 1989 Oct 21;2(8669):973–4.

Statement from the National Institutes of Health workshop on population screening for the cystic fibrosis gene. **N Engl J Med** 1990 Jul 5;323(1):70–1

Newborn screening for cystic fibrosis is complicated by age-related decline in immunoreactive trypsinogen levels. Rock MJ, et al. **Pediatrics** 1990 Jun;85(6):1001–7

Community attitudes to cystic fibrosis carrier testing in England: a pilot study [see comments] Williamson R, et al. **Prenat Diagn** 1989 Oct;9(10):727–34 Comment in: Prenat Diagn 1990 Apr;10(4):275–6.

[A new strategy of neonatal screening for cystic fibrosis. The association of immunoreactive trypsin and molecular biology in dried blood] Laroche D, et al. **Arch Fr Pediatr** 1990 Apr;47(4):251–3 (Eng. Abstr.) (Fre)

PSYCHOLOGY

Parental care and overprotection of children with cystic fibrosis. Cappelli M, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):281–9

The CF "young adult" comes of age [editorial; comment] Lewiston NJ. **Chest** 1990 Jun;97(6):1282–3 Comment on: Chest 1990 Jun;97(6):1310–6.

A comparative study of the psychosocial assets of adults with cystic fibrosis and their healthy peers [see comments] Shepherd SL, et al. **Chest** 1990 Jun;97(6):1310–6 Comment in: Chest 1990 Jun;97(6):1282–3.

A child with cystic fibrosis: II. Subsequent family planning decisions, reproduction and use of prenatal diagnosis. Evers-Kiebooms G, et al. **Clin Genet** 1990 Mar; 37(3):207–15

Knowledge, attitudes and behavior related to sexuality in adolescents with chronic disability. Cromer BA, et al. **Dev Med Child Neurol** 1990 Jul;32(7):602–10

Chronic illness in infancy and parenting stress: a comparison of three groups of parents. Goldberg S, et al. **J Pediatr Psychol** 1990 Jun;15(3):347–58

The role of maternal employment and depression in the psychological adjustment of chronically ill, mentally retarded, and well children. Walker LS, et al. **J Pediatr Psychol** 1989 Sep;14(3):357–70

The impact of family functioning on health changes in children with cystic fibrosis. Patterson JM, et al. **Soc Sci Med** 1990;31(2):159–64

RADIONUCLIDE IMAGING

[Pulmonary gammagraphy in children with cystic fibrosis] Tosao Sánchez A, et al. **An Esp Pediatr** 1989 Jul;31(1):15–8 (Eng. Abstr.) (Spa)

REHABILITATION

Burnout among social workers working with patients with cystic fibrosis. Coady CA, et al. **Health Soc Work** 1990 May;15(2):116–24

Intravenous antibiotics at home in children with cystic fibrosis [letter; comment] Gallaway A, et al. **J R Soc Med** 1990 Feb;83(2):128 Comment on: J R Soc Med 1989 Mar;82(3):130–1.

Guidance of children and adolescents with cystic fibrosis. Gerritsen J, et al. **Lung** 1990;168 Suppl:474–80

[PEP mask physiotherapy: development of a high pressure method for mobilization of secretions in mucoviscidosis] Zach M, et al. **Wien Med Wochenschr Suppl** 1987;103:50–1 (Ger)

[Medical rehabilitation and social adaptation of children with mucoviscidosis] Kapranov NI, et al. **Pediatriia** 1989; (8):51–5 (Rus)

SURGERY

Lung and heart–lung transplantation for end-stage lung disease. The Bordeaux Lung and Heart–Lung Transplant Group. Couraud L, et al. **Eur J Cardiothorac Surg** 1990; 4(6):318–22

Cystic fibrosis: a new challenge for cardiothoracic surgery. Fradet G, et al. **Eur J Cardiothorac Surg** 1990;4(3):136–40; discussion 140–1

Bilateral bronchial anastomosis in double lung and heart–lung transplantations. Noirclerc MJ, et al. **Eur J Cardiothorac Surg** 1990;4(6):314–7

Preventing postoperative complications in the adult cystic fibrosis patient. Cole RR, et al. **Int J Pediatr Otorhinolaryngol** 1990 Jan;18(3):263–9

Which transplant technique will let cystic fibrosis patients breathe easier? [news] Goldsmith MF. **JAMA** 1990 Jul 4; 264(1):9, 13

[Double lung transplantation. Report of the 1st French case and comments on the 5 subsequent cases] Noirclerc M, et al. **Ann Chir** 1989;43(8):597–600 (Eng. Abstr.) (Fre)

[Clinical applications of the heart–lung transplant. Clinical results 5 years after the start of the program at Papworth] Fabbri A, et al. **G Ital Cardiol** 1989 Nov;19(11):989–98 (Eng. Abstr.) (Ita)

[Pulmonary transplant in the treatment of advanced stage cystic fibrosis] Furlan G. **Pediatr Med Chir** 1989 May–Jun; 11(3):293–9 (70 ref.) (Eng. Abstr.) (Ita)

THERAPY

Reduction of sputum Pseudomonas aeruginosa density by antibiotics improves lung function in cystic fibrosis more than do bronchodilators and chest physiotherapy alone. Regelmann WE, et al. **Am Rev Respir Dis** 1990 Apr;141(4 Pt 1):914–21

High dose pancreatic enzymes in cystic fibrosis. Robinson PJ, et al. **Arch Dis Child** 1990 Mar;65(3):311–2

High-frequency chest compression system to aid in clearance of mucus from the lung. Hansen LG, et al. **Biomed Instrum Technol** 1990 Jul–Aug;24(4):289–94

Compliance among adults with cystic fibrosis. Fong SL, et al. **DICP** 1990 Jul–Aug;24(7–8):689–92

A behavioral approach to increasing calorie consumption in children with cystic fibrosis. Stark LJ, et al. **J Pediatr Psychol** 1990 Jun;15(3):309–26

Comparison of low, medium, and high carbohydrate formulas for nighttime enteral feedings in cystic fibrosis patients. Kane RE, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):47–52

Negative clinical trials in cystic fibrosis research. Pattishall EN. **Pediatrics** 1990 Mar;85(3):277–81

Cystic fibrosis. Elliott M. **Practitioner** 1989 Feb 22; 233(1463):253–4, 256

Immediate effect of various treatments on lung function in infants with cystic fibrosis. Maayan C, et al. **Respiration** 1989;55(3):144–51 (30 ref.)

Effect of exercise and physiotherapy in aiding sputum expectoration in adults with cystic fibrosis. Salh W, et al. **Thorax** 1989 Dec;44(12):1006–8

[Acute priapism after infusion of 10% fat emulsion in a child with cystic fibrosis (letter)] Douchain F, et al. **Presse Med** 1990 Mar 10;19(9):429 (Fre)

[Pancreatic enzyme substitution in patients with mucoviscidosis] Henker J. **Gastroenterol J** 1990;49(4):151–5 (51 ref.) (Eng. Abstr.) (Ger)

URINE

Assay of a urinary CF-lectin factor as a second diagnostic test for cystic fibrosis. Lieberman J, et al. **Am J Med Sci** 1990 Feb;299(2):103–6

Analysis and HPLC fractionation of urine from patients with cystic fibrosis, chronic lung diseases and normal controls. Guman-Wignot TM, et al. **Clin Biochem** 1989 Oct; 22(5):377–83

Renal handling of beta 2-microglobulin in patients with cystic fibrosis. Kearns GL, et al. **DICP** 1989 Dec; 23(12):1013–7

Renal calcium handling in cystic fibrosis: lack of evidence for a primary renal defect. Bentur L, et al. **J Pediatr** 1990 Apr;116(4):556–60

CYSTICERCOSIS

Neurocysticercosis in Panama: preliminary epidemiologic study in the Azuero region. Gracia F, et al. **Am J Trop Med Hyg** 1990 Jan;42(1):67–9

Cerebral cysticercosis [editorial; comment] Deck MD. **Clin Imaging** 1989 Dec;13(4):333 Comment on: Clin Imaging 1989 Dec;13(4):292–8.

Taenia crassiceps: experimental model of intraocular cysticercosis. Cárdenas F, et al. **Exp Parasitol** 1989 Nov; 69(4):324–9

BLOOD

[Pharmacokinetics of albendazole and its metabolites in human body] Guan TY, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):69–72 (Eng. Abstr.) (Chi)

CEREBROSPINAL FLUID

Human neurocysticercosis: comparison of enzyme immunoassay capture techniques based on monoclonal and polyclonal antibodies for the detection of parasite products in cerebrospinal fluid. Correa D, et al. **Trans R Soc Trop Med Hyg** 1989 Nov–Dec;83(6):814–6

[Evaluation of antigenic fractions of Cysticercus cellulosae for the immunodiagnosis of neurocysticercosis using antibody–lectin conjugates] Rossi CL. **Arq Neuropsiquiatr** 1989 Sep;47(3):287–90 (Eng. Abstr.) (Por)

CLASSIFICATION

[Prognostic classification of cerebral cysticercosis. Therapeutic implications] Estañol B, et al. **Gac Med Mex** 1989 Mar–Apr;125(3–4):105–11 (Spa)

COMPLICATIONS

Neurocysticercosis as the main cause of late-onset epilepsy in Mexico. Medina MT, et al. **Arch Intern Med** 1990 Feb; 150(2):325–7

Acquired epileptic aphasia (the Landau–Kleffner syndrome) due to neurocysticercosis. Otero E, et al. **Epilepsia** 1989 Sep–Oct;30(5):569–72

Neurocysticercosis: an unusual presentation [letter] Saha P, et al. **J Assoc Physicians India** 1990 Feb;38(2):188–9

Neurocysticercosis: an under-recognized cause of neurological problems. Crimmins D, et al. **Med J Aust** 1990 Apr 16;152(8):434–8

[Unilateral iritis by cysticercal larva in the anterior chamber] Schmidt U, et al. **Ophthalmologica** 1990;200(4):210–5 (Eng. Abstr.) (Ger)

[Neurocysticercosis. I. Clinical and laboratory course of 151 cases] Takayanagui OM. **Arq Neuropsiquiatr** 1990 Mar; 48(1):1–10 (Eng. Abstr.) (Por)

[Criteria for the diagnosis of epilepsy caused by cerebral cysticercosis in a population of recruits] Umićević P, et al. **Vojnosanit Pregl** 1989 Nov–Dec;46(6):420–7 (Eng. Abstr.) (Scr)

[Granuloma in cerebral parenchyma. A human model for the study of epilepsy] Sotelo-Morales J, et al. **Gac Med Mex** 1989 Jan–Feb;125(1–2):31–5; discussion 36 (Spa)

DIAGNOSIS

Soft tissue cysticercosis. Diagnosis by fine-needle aspiration. Kung IT, et al. **Am J Clin Pathol** 1989 Dec;92(6):834–5

Immunodiagnosis of human cysticercosis in cerebrospinal fluid. Antigens from murine Taenia crassiceps cysticerci effectively substitute those from porcine Taenia solium. Larralde C, et al. **Arch Pathol Lab Med** 1990 Sep; 114(9):926–8

Antigenic analysis of Cysticercus cellulosae by crossed immunoelectrophoresis & its role in immune diagnosis of neurocysticercosis. Katti MK, et al. **Indian J Med Res** 1990 Jan;91:39–43

Cysticercosis mimicking brain neoplasm: MR and CT appearance. Michael AS, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):708–11

Cystic brain lesions in a Haitian man. Fleet WF 3d, et al. **J Tenn Med Assoc** 1990 Aug;83(8):400–1, 403

Cysticercosis: pandemonium in pigdom. Cheshire WP Jr, et al. **N C Med J** 1989 Oct;50(10):538–40

Unusual MR manifestations of neurocysticercosis. Suh DC, et al. **Neuroradiology** 1989;31(5):396–402

[Contribution of enzyme-linked immuno-electrotransfer blot assay for the diagnosis of human neurocysticercosis] Michault A, et al. **Pathol Biol (Paris)** 1990 Feb;38(2):119-25 (Eng. Abstr.) (Fre)

[Acute meningitis with cerebrospinal fluid eosinophilia: neurocysticercosis] Matschke HJ, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Sep;41(9):545-9 (Eng. Abstr.) (Ger)

[Cerebral cysticercosis presenting as a solitary cyst. Diagnosis and treatment with CT-guided stereotactic biopsy—case report] Hashimoto T, et al. **Neurol Med Chir (Tokyo)** 1989 Jun;29(6):520-4 (22 ref.) (Eng. Abstr.) (Jpn)

[Cerebral cysticercosis: a case report with special reference to CT and MRI findings] Kamii H, et al. **No Shinkei Geka** 1989 Oct;17(10):959-64 (Eng. Abstr.) (Jpn)

[Cranial computed tomography aspects in neurocysticercosis in childhood] Guerreiro MM, et al. **Arq Neuropsiquiatr** 1989 Jun;47(2):153-8 (Eng. Abstr.) (Por)

[Clinico-anatomic characteristics of cysticercosis of the brain] Bolko IuG, et al. **Zh Nevropatol Psikhiatr** 1989; 89(7):36-8 (Eng. Abstr.) (Rus)

[Ultrasonography of echinococcosis, toxocariasis and cysticercosis of the liver] Hrušovský S, et al. **Cesk Radiol** 1989 Oct;43(5):318-24 (Eng. Abstr.) (Slo)

DRUG THERAPY

Neurocysticercosis. Short course of treatment with albendazole. Alarcón F, et al. **Arch Neurol** 1989 Nov; 46(11):1231-6

Methyl 5(6)-(alpha-hydroxyphenyl methyl) benzimidazole-2-carbamate and cysticercosis: chemotherapeutic and electron microscopic studies. Jain MK, et al. **Indian J Exp Biol** 1989 May;27(5):454-9

Failure of praziquantel and albendazole in neurocysticercosis [letter] Gupta R, et al. **J Assoc Physicians India** 1990 Apr; 38(4):313-4

Praziquantel in neurocysticercosis [letter] Mehndiratta MM, et al. **J Assoc Physicians India** 1989 Apr;37(4):298

Reply from authors. Praziquantel in neurocysticercosis [letter] Misra SC, et al. **J Assoc Physicians India** 1989 May; 37(5):352-3

Comparison of therapeutic regimen of anticysticercal drugs for parenchymal brain cysticercosis. Sotelo J, et al. **J Neurol** 1990 Apr;237(2):69-72

Albendazole therapy for subarachnoid and ventricular cysticercosis. Case report. del Brutto OH, et al. **J Neurosurg** 1990 May;72(5):816-7

Praziquantel treatment of porcine brain and muscle Taenia solium cysticercosis. 1. Radiological, physiological and histopathological studies. Flisser A, et al. **Parasitol Res** 1990;76(3):263-9

Cysticercal meningitis—a pernicious form of neurocysticercosis which responds poorly to praziquantel. Joubert J. **S Afr Med J** 1990 May 19;77(10):528-30

Rapid and complete resolution of giant cysticercal cysts after administration of praziquantel. A report of 4 cases. Joubert J, et al. **S Afr Med J** 1990 Feb 3;77(3):154-7

Treatment of neurocysticercosis. Joubert J, et al. **S Afr Med J** 1990 Jan 6;77(1):27-30

Treatment of neurocysticercosis with praziquantel [letter] Moodley M. **S Afr Med J** 1990 Aug 4;78(3):170-1

Neurocysticercosis [editorial] Thomsson AJ. **S Afr Med J** 1990 Feb 3;77(3):119-20

Neurocysticercosis: treatment with albendazole and dextrochloropheniramine [see comments] Agapejev S, et al. **Trans R Soc Trop Med Hyg** 1989 May-Jun;83(3):377-83 Comment in: Trans R Soc Trop Med Hyg 1990 Jan-Feb;84(1):174.

Racemose cysticercosis treated with praziquantel. Baily GG, et al. **Trans R Soc Trop Med Hyg** 1989 Jan-Feb;83(1):95-6

Neurocysticercosis: treatment with albendazole [letter; comment] Horton J. **Trans R Soc Trop Med Hyg** 1990 Jan-Feb;84(1):174 Comment on: Trans R Soc Trop Med Hyg 1989 May-Jun;83(3):377-83.

[Neurocysticercosis and praziquantel: long-term development in 100 patients] Spina-França A, et al. **Arq Neuropsiquiatr** 1989 Dec;47(4):444-8 (Eng. Abstr.) (Por)

[Neurocysticercosis. II. Evaluation of treatment with praziquantel] Takayanagui OM. **Arq Neuropsiquiatr** 1990 Mar;48(1):11-5 (Eng. Abstr.) (Por)

EPIDEMIOLOGY

Serological survey of human cysticercosis in Irianese refugee camps in Papua New Guinea. Fritzsche M, et al. **Acta Trop (Basel)** 1990 Feb;47(2):69-77

Neurocysticercosis—two Australian cases. McDowell D, et al. **Med J Aust** 1990 Feb 19;152(4):217-8

Cysticercosis in an urban black South African community: prevalence and risk factors. Sacks LV, et al. **Trop Gastroenterol** 1990 Jan-Mar;11(1):30-3

[Sero-epidemiological study of cysticercosis in Reunion Island] Michault A, et al. **Bull Soc Pathol Exot Filiales** 1990;83(1):82-92 (Eng. Abstr.) (Fre)

[Frequency of neurocysticercosis at a hospital in Madrid (1980-1989)] Chinchilla N, et al. **Arch Neurobiol (Madr)** 1989 Nov-Dec;52(6):287-94 (Eng. Abstr.) (Spa)

[Neurocysticercosis among Latin American emigrants (letter)] Giménez-Roldán S, et al. **Rev Clin Esp** 1990 Mar; 186(4):197 (Spa)

ETIOLOGY

A contribution to the etiology of racemose cysticercosis. Lachberg S, et al. **J Parasitol** 1990 Aug;76(4):592-4

IMMUNOLOGY

Taenia crassiceps metacestode vesicular fluid antigens shared with the Taenia solium larval stage and reactive with serum antibodies from patients with neurocysticercosis. Kunz J, et al. **Int J Med Microbiol** 1989 Oct;271(4):510-20

Antibodies to the metacestode of Taenia solium in the saliva from patients with neurocysticercosis. Acosta E. **J Clin Lab Anal** 1990;4(2):90-4

Immunoglobulin E and G4 antibodies in cysticercosis. Short JA, et al. **J Clin Microbiol** 1990 Jul;28(7):1635-9

What is the significance of the presence of MHC molecules on the surface of parasites in human neurocysticercosis? Trejo V, et al. **J Immunogenet** 1989 Dec;16(6):427-36

Detection of antigens of larval Taenia solium in the cerebrospinal fluid of patients with the use of HPLC and ELISA. Choromanski L, et al. **J Parasitol** 1990 Feb; 76(1):69-73

Cysticercosis: cellular immune responses during primary and secondary infection. Meeusen E, et al. **Parasite Immunol** 1990 Jul;12(4):403-18

Protein antigens in the cyst fluid of Taenia saginata cysticerci. Joshua GW, et al. **Parasitology** 1990 Jun;100 Pt 3:463-7

[Integrity of the blood-brain barrier and intrathecal synthesis of IgG in parenchymatous and subarachnoid cerebral cysticercosis] Estañol Vidal B, et al. **Rev Invest Clin** 1989 Oct-Dec;41(4):327-30 (Eng. Abstr.) (Spa)

PARASITOLOGY

Cysticercosis of the breast. Alagaratnam TT, et al. **Am J Trop Med Hyg** 1988 May;38(3):601-2

Growth of a Japanese isolate of Taenia crassiceps in intermediate and definitive hosts. Miyaji S, et al. **Parasitol Res** 1990;76(4):351-4

PATHOLOGY

Disseminated human neurocysticercosis. A morphologic analysis of two cases. Thomas JA, et al. **Acta Neuropathol (Berl)** 1989;78(6):594-604

Histological description of tomographic images of Taenia solium cysticerci in pig brains [see comments] de Aluja AS, et al. **Clin Imaging** 1989 Dec;13(4):292-8 Comment in: Clin Imaging 1989 Dec;13(4):333.

Intramedullary cysticercosis. Venkataramana NK, et al. **Clin Neurol Neurosurg** 1989;91(4):337-41

Neurocysticercosis with rare presentations. Mandal DK, et al. **J Indian Med Assoc** 1989 Jun;87(6):142-4

Cysticercosis of the tongue. Jain RK, et al. **J Laryngol Otol** 1989 Dec;103(12):1227-8 (9 ref.)

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 20-1990. A 16-year-old boy with a lesion of the left frontal lobe. **N Engl J Med** 1990 May 17;322(20):1446-58

Neurocysticercosis [letter; comment] **Neurology** 1990 Mar; 40(3 Pt 1):563-4 Comment on: Neurology 1989 May;39(5):739-41.

[Isolated involvement of the central nervous system in cysticercosis. Anatomo-clinical study of a case] Hoffman P, et al. **Ann Pathol** 1990;10(2):122-5 (Eng. Abstr.) (Fre)

PHYSIOPATHOLOGY

Observations on self-induced Taenia saginata infection. Tesfa-Yohannes TM. **Ethiop Med J** 1990 Apr;28(2):91-3

PREVENTION & CONTROL

Operational studies on the control of Taenia solium taeniasis/cysticercosis in Ecuador [published erratum appears in Bull World Health Organ 1989;67(6):757] Cruz M, et al. **Bull World Health Organ** 1989;67(4):401-7

RADIOGRAPHY

Spontaneous disappearance of a single large cerebral cysticercus cyst [letter] Rajshekhar V, et al. **Br J Neurosurg** 1990;4(2):161-3

CT features of cellulosae and racemosus neurocysticercosis. Rodacki MA, et al. **J Comput Assist Tomogr** 1989 Nov-Dec;13(6):1013-6

CT diagnosis of cerebral cysticercosis. Bhoopat W, et al. **J Med Assoc Thai** 1989 Dec;72(12):673-81

Unusual cystic lesions of the spinal cord. Baily GG, et al. **J R Soc Med** 1989 Dec;82(12):765-6

[A case of cerebral cysticercosis: cyst growth is confirmed by CT scan during 6 years of follow-up] Terada K, et al. **No Shinkei Geka** 1990 Apr;18(4):391-5 (24 ref.) (Eng. Abstr.) (Jpn)

SURGERY

The successful removal of a subretinal cysticercus by pars plana vitrectomy. Steinmetz RL, et al. **Retina** 1989; 9(4):276-80

VETERINARY

Prevalence and comparison of serologic assays, necropsy, and tongue examination for the diagnosis of porcine cysticercosis in Peru. Gonzalez AE, et al. **Am J Trop Med Hyg** 1990 Aug;43(2):194-9

Neurocysticercosis in a dog [letter] Rogers SE, et al. **Ann Soc Belg Med Trop** 1989 Dec;69(4):337-8

Experimental studies of Korea Taenia (Cheju strain) infection in domestic animals. Fan PC, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):395-403

Assessment of an enzyme-linked immunosorbent assay using a Taenia hydatigena fraction antigen in the diagnosis of cysticercosis in cattle. Smith HJ, et al. **Can J Vet Res** 1990 Apr;54(2):299-300

Biochemical characterization of Taenia hydatigena cysticerci from goats and pigs. Abidi SM, et al. **J Helminthol** 1989 Dec;63(4):333-7

Cysticerci (Cestoda: Taeniidae) from white-tailed deer, Odocoileus virginianus, in southern Florida. Forrester DJ, et al. **J Parasitol** 1990 Aug;76(4):583-5

Cysticerci of Taenia mustelae in the fox squirrel. Langham RF, et al. **J Wildl Dis** 1990 Apr;26(2):295-6

Deleterious effect of prednisolone on the attachment of Taenia crassiceps cysticerci to the intestine of gerbils. Sato H, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):1099-101

Larvae of Taenia crassiceps (Cestoda): host specificity and localisation. Delvalle B. **Parasitol Res** 1989;76(2):181-2

A vaccine for ovine cysticercosis [editorial] Mitchell GH. **Vaccine** 1989 Oct;7(5):379

Immunization of pigs with culture antigens of Taenia solium. Pathak KM, et al. **Vet Parasitol** 1990 Jan;34(4):353-6

Observations on Cysticercus bovis in slaughter cattle in the Matabeleland province of Zimbabwe. Pugh KE, et al. **Vet Rec** 1989 Nov 4;125(19):480-4

Purification of an antigen from the Taenia crassiceps metacestode vesicular fluid highly sensitive in detecting IgG-antibodies (ELISA) in calves with experimental cysticercosis. Kalinna B, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):213-21

[Epidemiology of bovine and porcine cysticercosis in Chile. Tendencies of the prevalence rates, in animals slaughtered in abattoirs of the country. 1977-1986] Schenone H, et al. **Bol Chil Parasitol** 1988 Jul-Dec;43(3-4):66-7 (Eng. Abstr.) (Spa)

CYSTICERCUS see under TAENIA

CYSTINE

Arrangement of disulfide bridges and positions of sulfhydryl groups in tetanus toxin. Krieglstein K, et al. **Eur J Biochem** 1990 Feb 22;188(1):39-45

Synthetic peptide models for protein secondary structures. Beta-sheet formation in acyclic cystine peptides. Balaram H, et al. **Int J Pept Protein Res** 1990 Jun;35(6):495-500

Synthesis of cystine peptides 21-25/70-73 and 35-39/56-59 of the beta-subunit of human choriogonadotropin. Chaturvedi S, et al. **Int J Pept Protein Res** 1990 Feb; 35(2):133-40

Cystine peptides. Antiparallel beta-sheet conformation of the cyclic biscystine peptide [Boc-Cys-Ala-Cys-NHCH3]2. Karle IL, et al. **Int J Pept Protein Res** 1989 Jul;34(1):37-41

Cystine calculi—rough and smooth: a new clinical distinction. Bhatta KM, et al. **J Urol** 1989 Oct; 142(4):937-40

ADMINISTRATION & DOSAGE

[Low dosage retinol and L-cystine combination improve alopecia of the diffuse type following long-term oral administration] Hertel H, et al. **Hautarzt** 1989 Aug; 40(8):490-5 (Eng. Abstr.) (Ger)

[Treatment of arthrosis] Schattenkirchner M. **Internist (Berl)** 1990 Jan;31(1):82 (Ger)

[A cystine-containing short-chain peptide as a potential cystine source for parenteral nutrition] Pollack L, et al. **Z Ernahrungswiss** 1989 Sep;28(3):191-200 (Eng. Abstr.) (Ger)

ANALOGS & DERIVATIVES

Effects of N-acetylcysteine and terbutaline treatment on hemodynamics and regional albumin extravasation in porcine septic shock. Groeneveld AB, et al. **Circ Shock** 1990 Mar;30(3):185-205

Evaluation of N-acetylcysteine and methylprednisolone as therapies for oxygen and acrolein-induced lung damage. Critchley JA, et al. **Environ Health Perspect** 1990 Apr; 85:89-94

Effect of oral N-acetylcysteine (NAC) on volume and albumin content of respiratory tract fluid but not on epithelial secretory cell number in "smoking" rats. Robinson N, et al. **Eur Respir J** 1990 Mar;3(3):304-10

Intracellular cystine loading inhibits transport in the rabbit proximal convoluted tubule. Salmon RF, et al. **J Clin Invest** 1990 Feb;85(2):340-4

Synthesis and antitumour effect of N alpha-acyl derivatives of L-cystine-bis [N,N-di(2-chloroethyl)]dihydrazide. Zakhariev S, et al. **Pharmazie** 1989 Nov;44(11):763-5

ANALYSIS

Depletion of cystine in cystinotic fibroblasts by homocysteine. Synergism of cysteamine with various reducing agents in depletion of cystine from cystinotic fibroblasts. Butler JD. **Biochem Pharmacol** 1990 Aug 15; 40(4):879-85

A high performance liquid chromatography method for the analysis of 35S-cystine: application to the diagnosis of cystinosis. Hall NA, et al. **Clin Chim Acta** 1989 Sep 15; 184(1):1-5

Synthesis and acid ionization constants of cyclic cystine peptides H-Cys-(Gly)n-Cys-OH (n = 0-4). Horvat S, et al. **Int J Pept Protein Res** 1989 Oct;34(4):346-51

Place of extracorporeal shock-wave lithotripsy (ESWL) in management of cystine calculi. Katz G, et al. **Urology** 1990 Aug;36(2):124-8

[Treatment with extracorporeal shockwave lithotripsy (ESWL), endourology and dissolution for staghorn calculi composed of cystine: report of two cases] Tanaka T, et al. **Hinyokika Kiyo** 1990 May;36(5):593-7 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Promoter elements and regulation of expression of the cysD gene of Escherichia coli K-12. Malo MS, et al. **Gene** 1990 Mar 1;87(1):127-31

DEFICIENCY

Trichothiodystrophy--biochemical and clinical studies. Gillespie JM, et al. **Australas J Dermatol** 1988;29(2):85-93

METABOLISM

Utilization of L-cystine as a source of carbon and nitrogen by various fungi. Kunert J.
Acta Univ Palacki Olomuc Fac Med 1989;123:351-64 (32 ref.)

Effect of bathocuproine disulfonate, a copper chelator, on cyst(e)ine metabolism by freshly isolated rat hepatocytes. Coloso RM, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E443-50

D-penicillamine and the transport of L-cystine by rat and human renal cortical brush-border membrane vesicles. Furlong TJ, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):F321-7

[1-13C; methyl-2H3]methionine kinetics in humans: methionine conservation and cystine sparing. Storch KJ, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E790-8

Metabolism of sulfur-containing amino acids by pregnant merino ewes. Williams AJ, et al. **Aust J Biol Sci** 1988; 41(2):247-59

Formation of an intramolecular cystine disulfide during the reaction of 8-azidoguanosine 5'-triphosphate with cytosolic phosphoenolpyruvate carboxykinase (GTP) causes inactivation without photolabeling. Lewis CT, et al. **Biochemistry** 1989 Nov 28;28(24):9248-55

The effects of decreased growth temperature on the cystine content of cystinotic fibroblasts. Forster S, et al.
Biochim Biophys Acta 1989 Sep 4;1013(1):7-10

Mechanism of cystine reaccumulation by cystinotic fibroblasts in vitro. Forster S, et al. **Biosci Rep** 1990 Apr; 10(2):225-9

Immature cortical neurons are uniquely sensitive to glutamate toxicity by inhibition of cystine uptake. Murphy TH, et al. **FASEB J** 1990 Apr 1;4(6):1624-33

Induction of cystine transport activity in human fibroblasts by oxygen. Bannai S, et al. **J Biol Chem** 1989 Nov 5; 264(31):18480-4

Characterization of the lysosomal cystine transport system in mouse L-929 fibroblasts. Greene AA, et al.
J Biol Chem 1990 Jun 15;265(17):9888-95

Metabolism of cyst(e)ine in rat enterocytes. Coloso RM, et al. **J Nutr** 1989 Dec;119(12):1914-24

The transport systems for selenomethionine/methionine and selenocystine/cystine in Escherichia coli K-12 appear to be cooperative. Kull FJ, et al. **Membr Biochem** 1987-88; 7(4):207-17

Cystine exodus from lysosomes: cystinosis. Smith ML, et al. **Methods Enzymol** 1989;174:154-62 (23 ref.)

Glutamate toxicity in a neuronal cell line involves inhibition of cystine transport leading to oxidative stress. Murphy TH, et al. **Neuron** 1989 Jun;2(6):1547-58

PHARMACOKINETICS

Quantitative aspects of the feeder cell phenomenon: direct assessment of enhanced cystine uptake by lymphocytes. Pruett SB, et al. **Immunobiology** 1989 Oct;179(4-5):308-13

Cystine uptake by cultured cells originating from dog proximal tubule segments. States B, et al.
In Vitro Cell Dev Biol 1990 Feb;26(2):105-12

Cystine and dibasic amino acid uptake by opossum kidney cells. States B, et al. **J Cell Physiol** 1990 Jun;143(3):555-62

[Cystine transport and glutathione metabolism in human erythrocytes] Otsuka Y. **Nippon Ketsueki Gakkai Zasshi** 1989 Aug;52(5):823-30 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Phosphorylase and creatine kinase modification by thiol-disulfide exchange and by xanthine oxidase-initiated S-thiolation. Miller RM, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):355-63

Effects of addition of sulfur-containing amino acids and glycine to soybean protein and casein on serum cholesterol levels of rats. Tanaka K, et al.
J Nutr Sci Vitaminol (Tokyo) 1989 Aug;35(4):323-32

THERAPEUTIC USE

[Cystine in the treatment of vitiligo] Orecchia G, et al. **G Ital Dermatol Venereol** 1989 Nov-Dec;124(11-12):529-31 (Eng. Abstr.) **(Ita)**

CYSTINEAMINE see CYSTAMINE

CYSTINOSIS

BLOOD

Predicted reciprocal serum creatinine at age 10 years as a measure of renal function in children with nephropathic cystinosis treated with oral cysteamine. Gahl WA, et al. **Pediatr Nephrol** 1990 Mar;4(2):129-35

COMPLICATIONS

Cystinosis. A clinical, histopathologic, and ultrastructural study. Sanderson PO, et al. **Arch Ophthalmol** 1974 Apr; 91(4):270-4

Swallowing dysfunction in nephropathic cystinosis. Sonies BC, et al. **N Engl J Med** 1990 Aug 30;323(9):565-70

Hearing loss and adenoidal hypertrophy in an adolescent with nephropathic cystinosis. Rozenbaum JA, et al.
Otolaryngol Head Neck Surg 1989 Dec;101(6):701-3

DIAGNOSIS

A high performance liquid chromatography method for the analysis of 35S-cystine: application to the diagnosis of cystinosis. Hall NA, et al. **Clin Chim Acta** 1989 Sep 15; 184(1):1-5

Infantile nephropathic cystinosis presenting as incomplete Fanconi syndrome and refractory rickets. Rajadurai VS, et al. **Indian J Pediatr** 1989 May-Jun;56(3):428-35

DRUG THERAPY

A randomized placebo-controlled trial of cysteamine eye drops in nephropathic cystinosis. Kaiser-Kupfer MI, et al. **Arch Ophthalmol** 1990 May;108(5):689-93

Nephropathic cystinosis: improved linear growth after treatment with recombinant human growth hormone. Wilson DP, et al. **J Pediatr** 1989 Nov;115(5 Pt 1):758-61

From the National Institutes of Health. Raub W. **JAMA** 1990 Oct 3;264(13):1650

[Treatment of cystinosis using cysteamine] Broyer M, et al. **Ann Pediatr (Paris)** 1990 Feb;37(2):91-3 (Eng. Abstr.) **(Fre)**

GENETICS

Properties of cystinotic fibroblast-D98 cell hybrids studied by somatic cell hybridization. Schneider JA, et al.
Nature 1973 Aug 3;244(5414):289-92

METABOLISM

Hemodialysis in a patient with cystinosis. Effects on amino acid and bone metabolism. Mahoney CP, et al.
Am J Dis Child 1966 Jul;112(1):65-71

Depletion of cystine in cystinotic fibroblasts by homocysteine. Synergism of cysteamine with various reducing agents in depletion of cystine from cystinotic fibroblasts. Butler JD. **Biochem Pharmacol** 1990 Aug 15; 40(4):879-85

The effects of decreased growth temperature on the cystine content of cystinotic fibroblasts. Forster S, et al.
Biochim Biophys Acta 1989 Sep 4;1013(1):7-10

Mechanism of cystine reaccumulation by cystinotic fibroblasts in vitro. Forster S, et al. **Biosci Rep** 1990 Apr; 10(2):225-9

Intracellular cystine loading inhibits transport in the rabbit proximal convoluted tubule. Salmon RF, et al.
J Clin Invest 1990 Feb;85(2):340-4

Cystine exodus from lysosomes: cystinosis. Smith ML, et al. **Methods Enzymol** 1989;174:154-62 (23 ref.)

[Cystinosis and Salla disease] Narisawa K.
Tanpakushitsu Kakusan Koso 1988 Apr;33(5):839-42 **(Jpn)**

PATHOLOGY

Renal allografts in cystinosis and mesangial demography. Spear GS, et al. **Clin Nephrol** 1989 Dec;32(6):256-61

SURGERY

Crystal deposition following keratoplasty in nephropathic cystinosis. Katz B, et al. **Arch Ophthalmol** 1989 Dec; 107(12):1727-8

CYSTINURIA

Cystinuria. Feld RD. **Crit Rev Clin Lab Sci** 1988;26(3):243-61 (187 ref.)

COMPLICATIONS

Cystinuria with hyperuricemia and methioninuria. Biochemical study of a case. King JS Jr, et al.
Am J Med 1967 Jul;43(1):125-30

DIAGNOSIS

Cystine urolithiasis in Finland. Ala-Opas M.
Ann Chir Gynaecol 1989;78(2):136-41

Diagnostic problems associated with cystinuria. Ala-Opas M, et al. **Scand J Urol Nephrol** 1990;24(2):133-5

DIET THERAPY

Dietary restriction of sodium as a means of reducing urinary cystine. Norman RW, et al. **J Urol** 1990 Jun;143(6):1193-5

DRUG THERAPY

Captopril therapy of recurrent nephrolithiasis in a child with cystinuria. Sandroni S, et al. **Child Nephrol Urol** 1988-89; 9(6):347-8

Effect of captopril on urinary cystine excretion in homozygous cystinuria. Streem SB, et al. **J Urol** 1989 Dec; 142(6):1522-4

[Use of xidifon for prevention and treatment of nephropathies with metabolic disorders in children] Korovina NA, et al. **Pediatriia** 1990;(2):36-40 (Eng. Abstr.) **(Rus)**

METABOLISM

Sulfur amino acid metabolism in cystinuria: a biochemical and clinical study of patients. Mårtensson J, et al.
Kidney Int 1990 Jan;37(1):143-9

[Kidney tubular amino acid transport disorders] Oyanagi K. **Nippon Rinsho** 1989 Jul;47(7):1584-8 **(Jpn)**

THERAPY

[Treatment and metaphylaxis of cystine urolithiasis in children] de Temple R, et al. **Kinderarztl Prax** 1989 Sep; 57(9):435-42 (Eng. Abstr.) **(Ger)**

CYSTITIS

Hemorrhagic cystitis: a review. deVries CR, et al. **J Urol** 1990 Jan;143(1):1-9 (110 ref.)

Interstitial cystitis: review of the literature. Jensen H, et al. **Urol Int** 1989;44(4):189-93 (33 ref.)

[Urinary infections in children] Svorc J. **Zdrav Aktual** 1985; 205:69-75 **(Cze)**

[Interstitial cystitis] Gruenwald I, et al. **Harefuah** 1989 May 1;116(9):473-6 (35 ref.) **(Heb)**

[Eosinophilic cystitis] López Aramburu MA, et al.
Arch Esp Urol 1990 Jan-Feb;43(1):72-5 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

The sonographic appearance of cyclophosphamide-induced acute haemorrhagic cystitis. Kumar A, et al.
Clin Radiol 1990 Apr;41(4):289-90

[Cancer of the bladder after cystitis due to cyclophosphamide. Apropos of a case] Dore B, et al.
J Urol (Paris) 1989;95(7):427-31 (42 ref.) (Eng. Abstr.) **(Fre)**

[Drug-induced nephropathy and hemorrhagic cystitis as an adverse reaction to kanamycin] Fushtei IM, et al.
Klin Med (Mosk) 1989 Aug;67(8):105 **(Rus)**

COMPLICATIONS

AIDS presenting as cytomegalovirus cystitis. Lucas SB, et al. **Br J Urol** 1989 Oct;64(4):429-30

Lupus cystitis and perforation of the small bowel in a patient with systemic lupus erythematosus and overlapping syndrome. Moriuchi J, et al. **Clin Exp Rheumatol** 1989 Sep-Oct;7(5):533-6 (15 ref.)

Control of persistent vesical bleeding due to radiation cystitis by intravesical application of 15 (S) 15-methyl prostaglandin F2-alpha. Hemal AK, et al.
Indian J Cancer 1989 Jun;26(2):99-101

Abacterial cystitis in urinary incontinent females. Jensen H, et al. **Urol Int** 1990;45(1):20-4

[A case of proliferative chronic cystitis, progressing to obstructive nephropathy, treated by total cystectomy and enterocystoplasty] Takai K, et al.
Nippon Hinyokika Gakkai Zasshi 1989 Jul;80(7):1059-62 (Eng. Abstr.) **(Jpn)**

[Chronic cystitis and urinary stress incontinence in women] Vuković V, et al. **Med Pregl** 1989;42(11-12):443-4 (Eng. Abstr.) **(Scr)**

[Eosinophilic polypoid cystitis with flat carcinoma in situ of the overlying epithelium] Spitale L, et al.
Arch Esp Urol 1989 Oct;42(8):809-11 (12 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Emphysematous cystitis: a complication of urinary tract infection occurring predominantly in diabetic women. Ankel F, et al. **Ann Emerg Med** 1990 Apr;19(4):404-6

Diagnosis of interstitial cystitis. Hanno P, et al. **J Urol** 1990 Feb;143(2):278-81

Eosinophilic cystitis presenting as invasive bladder cancer: comments on pathogenesis and management. Thijssen A, et al. **J Urol** 1990 Oct;144(4):977-9 (19 ref.)

Interstitial cystitis. An overlooked cause of pelvic pain. Levine DZ. **Postgrad Med** 1990 Jul;88(1):101-2, 107-9 (16 ref.)

[Adenovirus infection with hemorrhagic cystitis and pneumonia. Pathogen confirmation in urine by genome hybridization] Schuster V, et al.
Monatsschr Kinderheilkd 1990 Jul;138(7):392-4 (Eng.

Abstr.) (Ger)
[A case of cystitis glandularis suspected of malignant tumor of urinary bladder] Tanaka S, et al. **Hinyokika Kiyo** 1990 Mar;36(3):351–3 (Eng. Abstr.) (Jpn)
[Usefulness of beta-2-microglobulin determination in the differential diagnosis of infections in the upper and lower parts of the urinary tract] Pupek-Musialik D. **Wiad Lek** 1990 Mar 1–15;43(5–6):183–7 (Eng. Abstr.) (Pol)
[Cystalgia] Khairliev GZ, et al. **Sov Med** 1990;(2):87–90 (Rus)
[Interstitial cystitis—etiology and diagnosis] Čičin-Sain D, et al. **Lijec Vjesn** 1989 Jun–Jul;111(6–7):200–1 (Eng. Abstr.) (Scr)

DRUG THERAPY

Ofloxacin versus trimethoprim-sulfamethoxazole for treatment of acute cystitis. Hooton TM, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1308–12
Cystitis glandularis—reversal with intravesical steroid therapy. Holder P, et al. **Br J Urol** 1990 May;65(5):547–8
The treatment of phosphatic encrusted cystitis (alkaline cystitis) with nalidixic acid. Jameson RM. **Br J Urol** 1966 Feb;38(1):89–92
Dinoprost in hemorrhagic cystitis. Gericke KR, et al. **DICP** 1989 Nov;23(11):885–6
Possibilities of extending the indications for application of single antibacterial doses in urological practice. Minkov N, et al. **Int Urol Nephrol** 1989;21(4):359–68
Efficacy of single-dose versus seven-day trimethoprim treatment of cystitis in women: a randomized double-blind study. Osterberg E, et al. **J Infect Dis** 1990 May; 161(5):942–7
Antimicrobial agents in the management of urinary tract infection: an experimental evaluation. Lecamwasam JP, et al. **J Lab Clin Med** 1989 Nov;114(5):510–9
Treatment of radiation or cyclophosphamide induced hemorrhagic cystitis using conjugated estrogen. Liu YK, et al. **J Urol** 1990 Jul;144(1):41–3
Prostaglandin E1 bladder instillations to control severe hemorrhagic cystitis. Trigg ME, et al. **J Urol** 1990 Jan; 143(1):92–4
Corticosteroids in the management of cystitis secondary to chronic granulomatous disease. Collman RJ, et al. **Pediatrics** 1990 Feb;85(2):219–21
Intravesical lidocaine in severe interstitial cystitis. Case report. Asklin B, et al. **Scand J Urol Nephrol** 1989; 23(4):311–2
Interstitial cystitis treated with intravesical doxorubicin. Khanna OP, et al. **Urology** 1990 Aug;36(2):139–42
Pentosan polysulfate sodium for therapy of interstitial cystitis. A double-blind placebo-controlled clinical study. Mulholland SG, et al. **Urology** 1990 Jun;35(6):552–8
[Treatment of hemorrhagic cystitis caused by cyclophosphamide using intravesical instillation of potassium alum. Apropos of 5 cases] Gattegno B, et al. **Ann Urol (Paris)** 1990;24(3):190–2 (9 ref.) (Eng. Abstr.) (Fre)
[Therapy of interstitial and radiogenic cystitis with D-glucosamine] Strohmaier WL, et al. **Helv Chir Acta** 1989 Aug;56(3):323–5 (Eng. Abstr.) (Ger)
[Treatment of male genital infections with enoxacin] Giorgi PM, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep; 61(3):235–41 (Eng. Abstr.) (Ita)
[Enoxacin in the treatment of bacterial prostato-cystitis] Mantovani F, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep; 61(3):243–8 (Eng. Abstr.) (Ita)
[Treatment of female acute cystitis with a single dose of cefminox] Koguchi M, et al. **Hinyokika Kiyo** 1989 Dec; 35(12):2163–6 (Eng. Abstr.) (Jpn)
[Clinical evaluation of cefixime in the treatment of acute uncomplicated cystitis] Togashi M, et al. **Hinyokika Kiyo** 1989 Jun;35(6):1083–7 (Eng. Abstr.) (Jpn)
[Intravesical or intrarectal instillation of maalox for the treatment of radiation cystitis or proctitis] Kawagoe K, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Aug 20; 24(8):1545–50 (Eng. Abstr.) (Jpn)
[Results of 2-week and 3-month antibacterial therapy of infections of the upper and lower segments of the urinary tract] Wielgosz A, et al. **Pol Arch Med Wewn** 1988 Nov; 80(5):267–74 (Eng. Abstr.) (Pol)
[Lipofundin S in the treatment of radiation cystitis] Vidovanets IuM, et al. **Med Radiol (Mosk)** 1990 Jun; 35(6):31 (Rus)
[Drug phonophoresis in the treatment of chronic postoperative cystitis] Popov AI, et al. **Sov Med** 1989; (10):120 (Rus)

ENZYMOLOGY

Urinary N-acetyl-beta-glucosaminidase and the selection of children for radiologic evaluation after urinary tract infection. Johnson CE, et al. **Pediatrics** 1990 Aug; 86(2):211–6

ETIOLOGY

Hemorrhagic cystitis associated with urinary excretion of adenovirus type 11 following allogeneic bone marrow transplantation. Miyamura K, et al. **Bone Marrow Transplant** 1989 Sep;4(5):533–5
Vaginal leiomyoma as a cause of pelvic pain and cystitis cystica. Shaw CT. **J Am Osteopath Assoc** 1989 Oct; 89(10):1330–1
Pseudomembranous trigonitis of the bladder: hormonal aetiology. Stephenson TJ, et al. **J Clin Pathol** 1989 Sep; 42(9):922–6
Eosinophilic cystitis in a renal allograft recipient. Horner SA, et al. **J Urol** 1990 Aug;144(2 Pt 1):342–3
Recurrent interstitial cystitis following cystoplasty: fact or fiction? MacDermott JP, et al. **J Urol** 1990 Jul;144(1):37–40
Stimulation of epithelial hyperplasia in rat urinary bladder by Escherichia coli cystitis. Uchida K, et al. **J Urol** 1989 Oct;142(4):1122–6
Recurrent cystitis due to retained Jacques catheter—a case report. Tharmaseelan NK. **Med J Malaysia** 1989 Sep; 44(3):252–4
Fatal hemorrhagic cystitis induced by pelvic irradiation and cyclophosphamide therapy. Case reports and review. Price WE, et al. **Minn Med** 1990 May;73(5):39–41, 44
Late onset hemorrhagic cystitis after allogeneic bone marrow transplantation. Shieh CC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 May;88(5):508–11
[Effect of insulin on the incidence of experimental Serratia marcescens cystitis in diabetic mice—relationship between insulin therapy and urea nitrogen content] Obana Y, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):708–13 (Eng. Abstr.) (Jpn)
[Incoercible hemorrhagic cystitis induced by pelvic radiotherapy and simultaneous treatment with cyclophosphamide] González Enguita C, et al. **Actas Urol Esp** 1990 Mar–Apr;14(2):128–31 (Eng. Abstr.) (Spa)

IMMUNOLOGY

Immunohistochemical detection of chlamydial antigens in association with cystitis. Shurbaji MS, et al. **Am J Clin Pathol** 1990 Mar;93(3):363–6
Interstitial cystitis: bladder mucosa lymphocyte immunophenotyping and peripheral blood flow cytometry analysis. Harrington DS, et al. **J Urol** 1990 Oct; 144(4):868–71

MICROBIOLOGY

Bacterial cultures for cystitis [letter; comment] Johnson JR, et al. **Ann Intern Med** 1990 Jun 15;112(12):966 Comment on: Ann Intern Med 1990 Mar 1;112(5):387–8.
Bacterial cultures for cystitis [letter; comment] [see comments] Washington JA. **Ann Intern Med** 1990 Mar 1; 112(5):387–8 Comment on: Ann Intern Med 1989 Dec 1;111(11):906–17. Comment in: Ann Intern Med 1990 Jun 15;112(12):966.
Bacterial attachment as a predictor of renal abnormalities in boys with urinary tract infection. de Man P, et al. **J Pediatr** 1989 Dec;115(6):915–22

PATHOLOGY

The histology of interstitial cystitis. Lynes WL, et al. **Am J Surg Pathol** 1990 Oct;14(10):969–76
Pelvic lipomatosis with cystitis cystica, cystitis glandularis and adenocarcinoma of the bladder: first reported case. Gordon NS, et al. **Aust N Z J Surg** 1990 Mar;60(3):229–32 (6 ref.)
The fine structure of human pseudomembranous trigonitis. Jost SP, et al. **Br J Urol** 1989 Nov;64(5):472–7
Eosinophilic cystitis. D'Souza C, et al. **J Assoc Physicians India** 1989 Oct;37(10):665–6 (6 ref.)
Autonomic innervation of the intestine from a baby with megacystis microcolon intestinal hypoperistalsis syndrome: I. Immunohistochemical study. Taguchi T, et al. **J Pediatr Surg** 1989 Dec;24(12):1264–6
Follicular cystitis in girls with untreated asymptomatic or covert bacteriuria. Hansson S, et al. **J Urol** 1990 Feb; 143(2):330–2
Clinical features and spectrum of light microscopic changes in interstitial cystitis. Johansson SL, et al. **J Urol** 1990 Jun; 143(6):1118–24
Immunopathology of interstitial cystitis. Said JW, et al. **Mod Pathol** 1989 Nov;2(6):593–602
Pathology and pathophysiology of painful bladder diseases. Holm-Bentzen M. **Urol Int** 1989;44(6):327–31
Nerve fibre proliferation in interstitial cystitis. Christmas TJ, et al. **Virchows Arch [A]** 1990;416(5):447–51
[Urethral meatus and cystitis] Reziciner S. **Ann Urol (Paris)** 1989;23(4):345–6 (Fre)
[Eosinophilic cystitis] Ruiz Rubio JL, et al. **Arch Esp Urol** 1989 Apr;42(3):193–5 (11 ref.) (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

Autonomic innervation of the intestine from a baby with megacystis microcolon intestinal hypoperistalsis syndrome: II. Electrophysiological study. Kubota M, et al. **J Pediatr Surg** 1989 Dec;24(12):1267–70
Urodynamic findings in interstitial cystitis. Steinkohl WB, et al. **Urology** 1989 Dec;34(6):399–401

PREVENTION & CONTROL

Evaluation of carboprost tromethamine in the treatment of cyclophosphamide-induced hemorrhagic cystitis. Levine LA, et al. **Cancer** 1990 Jul 15;66(2):242–5
Ifosfamide and mesna. **Med Lett Drugs Ther** 1989 Nov 3; 31(804):98–9
[Results of the Rieser intervention in the prevention of recurrent cystitis of the female in 34 cases] Lachand AT. **Ann Urol (Paris)** 1989;23(4):347–8 (Fre)
[Effects of mesna (2-mercaptoethane sodium sulfonate) in children with malignant disease receiving oxazaphosphorine chemotherapy] Iwasaku-Fujimoto M, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):403–6 (Eng. Abstr.) (Jpn)
[Anti-bacterial defense mechanism of the urinary bladder. Role of mannose in urine] Toyota S, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Dec;80(12):1816–23 (Eng. Abstr.) (Jpn)

RADIOGRAPHY

[Emphysematous cystitis] Calahorra Fernández FJ, et al. **Actas Urol Esp** 1989 Sep–Oct;13(5):384–7 (31 ref.) (Eng. Abstr.) (Spa)

RADIOTHERAPY

[Laser therapy of tuberculous cystitis] Shkuratov SI, et al. **Probl Tuberk** 1990;(5):9–11 (Eng. Abstr.) (Rus)

SURGERY

Cystotomy, temporary urinary diversion and bladder packing in the management of severe cyclophosphamide-induced hemorrhagic cystitis. Andriole GL, et al. **J Urol** 1990 May; 143(5):1006–7
Failure of combined supratrigonal cystectomy and Mainz ileocecocystoplasty in intractable interstitial cystitis: is histology and mast cell count a reliable predictor for the outcome of surgery? Nielsen KK, et al. **J Urol** 1990 Aug; 144(2 Pt 1):255–8; discussion 258–9
[The dysuria syndrome. Significance of urethral diameter for recurrent bacterial cystitis in the female] Schilling A, et al. **Gynakol Rundsch** 1989;29(4):200–14 (Eng. Abstr.) (Ger)
[The ileum neobladder—technic and results of bladder augmentation] Frohneberg D, et al. **Helv Chir Acta** 1989 Aug;56(3):335–7 (Eng. Abstr.) (Ger)

THERAPY

[The value of hydrostatic balloon dilatation with adjuvant pentosan polysulfate medication in therapy of chronic interstitial cystitis] Beer M, et al. **Helv Chir Acta** 1989 Aug; 56(3):327–9 (Eng. Abstr.) (Ger)

URINE

Decreased urinary uronic acid levels in individuals with interstitial cystitis. Parsons CL, et al. **J Urol** 1990 Apr; 143(4):690–3
[Urinary microflora and the status of local immunity in children with cystitis] Sentsova TB, et al. **Pediatriia** 1990; (2):19–23 (Eng. Abstr.) (Rus)

VETERINARY

Haematological and biochemical investigations of diseased koalas (Phascolarctos cinereus). Canfield PJ, et al. **Aust Vet J** 1989 Sep;66(9):269–72
Urinalysis in captive koalas. Canfield PJ, et al. **Aust Vet J** 1989 Nov;66(11):376–7
Isolation of Eubacterium suis from sows with cystitis. Walker RL, et al. **J Am Vet Med Assoc** 1989 Oct 15;195(8):1104–7
The virulence of Enterobacter cloacae and Serratia marcescens in experimental bladder infection in diabetic mice. Obana Y, et al. **J Med Microbiol** 1989 Oct;30(2):105–9
Cystitis, urolithiasis and cystic calculi in ageing guineapigs. Peng X, et al. **Lab Anim** 1990 Apr;24(2):159–63
[Endoscopic studies of the bladder in breeding sows—diagnosis of cystitis] Wendt M, et al. **Tierarztl Prax** 1989;17(3):273–9 (Eng. Abstr.) (Ger)

CYSTOCELE see **BLADDER DISEASES**

CYSTOID MACULAR EDEMA see **MACULAR EDEMA, CYSTOID**

CYSTOSARCOMA PHYLLODES

Phyllodes tumor of the prostate: a case report. Ito H, et al. **Jpn J Clin Oncol** 1989 Sep;19(3):299–304 (25 ref.)
Giant fibro-adenomas in black and Indian adolescents. Naidu AG, et al. **S Afr J Surg** 1989 Dec;27(5):171–2 (15 ref.)
Phyllode tumours of the breast. A review of 21 cases. van Zyl JA, et al. **S Afr J Surg** 1989 Dec;27(5):168–70 (17 ref.)
[Cystosarcoma phyllodes] Pačovský Z, et al. **Rozhl Chir** 1990 Jan;69(1):46–51 (Eng. Abstr.) (Cze)
[Cystosarcoma phyllodes of the breast] Soša I, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:302–3 (Scr)

DIAGNOSIS

An evaluation of the preoperative diagnosis and management of cystosarcoma phyllodes. Umpleby HC, et al. **Ann R Coll Surg Engl** 1989 Sep;71(5):285–8
The rate of mitosis in cystosarcoma phyllodes (phyllodes tumor, WHO) of the breast. An analysis of 47 cases. Zahner J, et al. **Arch Gynecol Obstet** 1989;246(3):153–7
Use of thermography in the differential diagnosis of phylloides tumour. Pierart J, et al. **Br J Surg** 1990 Jul; 77(7):783–4

Cystosarcoma phyllodes. Van Steen A, et al. **J Belge Radiol** 1989 Dec;72(6):536–7
[A report of 2 cases of fibroadenoma phyllodes] Ferrari P, et al. **Minerva Med** 1990 Mar;81(3 Suppl):107–9 (Eng. Abstr.) (Ita)
[Giant sarcoma of the breast] Kushelev AE. **Khirurgiia (Mosk)** 1990 Apr;(4):123 (Rus)

GENETICS

Stromal neoplasms of the breast: a comparative flow cytometric study. El-Naggar AK, et al. **J Surg Oncol** 1990 Jul;44(3):151–6

PATHOLOGY

DNA content and proliferative activity of cystosarcoma phyllodes of the breast. Potential prognostic significance. el-Naggar AK, et al. **Am J Clin Pathol** 1990 Apr; 93(4):480–5
Flow cytometric S fraction as a predictor of clinical outcome in cystosarcoma phyllodes. Palko MJ, et al. **Arch Pathol Lab Med** 1990 Sep;114(9):949–52
Cystosarcoma phyllodes arising synchronously in right breast and bilateral axillary ectopic breast tissue. Saleh HA, et al. **Arch Pathol Lab Med** 1990 Jun;114(6):624–6
Malignant Cystosarcoma phyllodes: report of two cases. Obafunwa JO, et al. **Cent Afr J Med** 1989 Oct;35(10):510–3
Small sized phyllodes tumor of the breast. Bartoli C, et al. **Eur J Surg Oncol** 1990 Jun;16(3):215–9
Cystosarcoma phyllodes. Deodhar SD, et al. **J Postgrad Med** 1989 Apr;35(2):98–103 (13 ref.)
Phyllodes tumor of the breast: a clinicopathologic study of 34 cases. Kario K, et al. **J Surg Oncol** 1990 Sep;45(1):46–51
Breast lesions in generalized neurofibromatosis: breast cancer and cystosarcoma phylloides. el-Zawahry MD, et al. **Neurofibromatosis** 1989;2(2):121–4
In situ and microinvasive carcinoma with squamoid differentiation arising in a phyllodes tumor: report of a case. de Rosa G, et al. **Tumori** 1989 Oct 31;75(5):514–7 (20 ref.)
Malignant phyllodes tumor of prostate. López-Beltran A, et al. **Urology** 1990 Feb;35(2):164–7
[Phyllodes breast tumors] Michaud P, et al. **Rev Fr Gynecol Obstet** 1989 Dec;84(12):944–9 (Eng. Abstr.) (Fre)
[Phyllodes tumors of the breast. Clinico-statistical data from the division of Obstetrics and Gynecology of the S. Giacomo Hospital for the years 1981–1985] Maranghi V, et al. **Minerva Ginecol** 1989 Apr;41(4):177–82 (40 ref.) (Eng. Abstr.) (Ita)
[Mixed metaplastic cancer of the breast] Ermilova VD, et al. **Vopr Onkol** 1989;35(8):928–31 (Eng. Abstr.) (Rus)

RADIOGRAPHY

[Phyllodes tumor of the breast] Santangelo A, et al. **Minerva Med** 1989 Aug;80(8):913–5 (Ita)

SECONDARY

Dumbbell metastatic cystosarcoma phyllodes of the heart and lung. Fleisher AG, et al. **Ann Thorac Surg** 1990 Feb; 49(2):309–11

SURGERY

Cardiopulmonary cystosarcoma [letter] Shuman RL. **Ann Thorac Surg** 1990 Sep;50(3):510–1
Cystosarcoma phylloides. Dyer NH, et al. **Br J Surg** 1966 May;53(5):450–5 (19 ref.)
Treatment options and recurrence potential for cystosarcoma phyllodes. Palmer ML, et al. **Surg Gynecol Obstet** 1990 Mar;170(3):193–6
Cystosarcoma phylloides in an adolescent female. Senocak ME, et al. **Z Kinderchir** 1989 Aug;44(4):253–4
[Gigantic fibroadenoma of the breast in an adolescent. Description of a clinical case] Gentile C, et al. **Minerva Chir** 1989 Nov 30;44(22):2357–9 (Eng. Abstr.) (Ita)

ULTRASTRUCTURE

Cystosarcoma phylloides of the breast and its mimics. An immunohistochemical and ultrastructural study. Auger M, et al. **Arch Pathol Lab Med** 1989 Nov;113(11):1231–5

CYSTOSCOPY

The role of midazolam and flumazenil in urology. Birch BR, et al. **Acta Anaesthesiol Scand Suppl** 1990;92:25–32; discussion 47
Modified cystoscopy to evaluate unilateral traumatic injury of the ureter during pelvic surgery [letter] Lin BL, et al. **Am J Obstet Gynecol** 1990 May;162(5):1343–4
Disinfecting effect of a disposable lubricant during cystoscopy. Scholtmeijer RJ, et al. **Child Nephrol Urol** 1990;10(1):22–5
Follow-up of superficial bladder cancer: how to spare cystoscopies? Vera-Donoso CD, et al. **Eur Urol** 1990; 17(1):17–9
[Cysto-urethroscopy in the diagnosis of stress incontinence] Behr J, et al. **Gynakol Rundsch** 1990;30(1):8–15 (Eng. Abstr.) (Ger)
[Buprenorphine in the analgesic treatment of patients subjected to bladder mapping] Altomare M, et al. **Minerva Urol Nefrol** 1989 Jul–Sep;41(3):199–200 (Eng. Abstr.) (Ita)
[The possibilities of endoscopy in the treatment of various childhood ureteroceles. Apropos of a case] Aubert D, et al. **Chir Pediatr** 1990;31(1):63–4 (Eng. Abstr.) (Rus)
[Echography and cytology versus cystoscopy in the follow-up of patients with superficial tumors of the bladder] Morales López A, et al. **Actas Urol Esp** 1989 Nov–Dec;13(6):436–8 (Eng. Abstr.) (Spa)

ADVERSE EFFECTS

Morbidity following cystoscopy: comparison of flexible and rigid techniques. Denholm SW, et al. **Br J Urol** 1990 Aug; 66(2):152–4
Re: Rectal perforation as a complication of urethral instrumentation: 2 case reports [letter; comment] Kavoussi L, et al. **J Urol** 1989 Nov;142(5):1333–4 Comment on: J Urol 1988 Sep;140(3):605–6.
[Antibiotic prophylaxis in endoscopic urologic surgery] Asuero Mantero M, et al. **Actas Urol Esp** 1989 Sep–Oct; 13(5):353–6 (Eng. Abstr.) (Spa)

INSTRUMENTATION

New sterilizing apparatus for flexible cystoscope. Houman B. **J Urol** 1989 Dec;142(6):1540
Transurethral removal of eroding permanent suture after endoscopic bladder neck suspension. St. Clair S, et al. **Urology** 1990 Feb;35(2):185–6
Congenital strictures of anterior urethra in childhood. Podestà E, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:62–3
Urethroscopy and uroflowmetry in the postoperative follow-up of hypospadias. Savanelli A, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:64
[Rigid and flexible ureteroscopy. Apropos of 200 consecutive cases] Flam T, et al. **Chirurgie** 1989;115(7):432–5 (Eng. Abstr.) (Fre)

METHODS

Endourologic management of lower urinary tract dysfunction. Karlin GS, et al. **Clin Geriatr Med** 1990 Feb; 6(1):109–13
The role of videourodynamic studies in diagnosis and treatment of vesicoureteral reflux. Scholtmeijer RJ, et al. **J Pediatr Surg** 1990 Jun;25(6):669–71
Cystourethroscopy in urogynecology. Richardson DA. **Obstet Gynecol Clin North Am** 1989 Dec;16(4):817–25 (10 ref.)
Endoscopic management of urethral stricture: "cut to the light" procedure. Leonard MP, et al. **Urology** 1990 Feb; 35(2):117–20
[Flexible ureteroscopy. Diagnostic and therapeutic significance. Apropos of 15 cases] Dore B, et al. **Ann Urol (Paris)** 1989;23(5):377–82 (Eng. Abstr.) (Fre)

CYSTOSTOMY

Cystotomy, temporary urinary diversion and bladder packing in the management of severe cyclophosphamide-induced hemorrhagic cystitis. Andriole GL, et al. **J Urol** 1990 May; 143(5):1006–7
Prostatomembranous urethral disruptions: management by suprapubic cystostomy and delayed urethroplasty. Husmann DA, et al. **J Urol** 1990 Jul;144(1):76–8

ADVERSE EFFECTS

Preservation of sexual function in men during radical pelvic surgery. Walsh PC, et al. **Md Med J** 1990 Apr;39(4):389–93

METHODS

Female urinary incontinence treated by transvaginal urethral closure and suprapubic catheter. Nielsen KT, et al. **Int Urol Nephrol** 1989;21(6):603–8
Percutaneous suprapubic cystostomy using balloon dilation. Chin JL, et al. **Urology** 1990 Mar;35(3):261–2
[Management of female neurogenic bladders caused by cervical spinal cord injuries—cutaneous vesicostomy] Natsume O, et al. **Hinyokika Kiyo** 1990 Mar;36(3):271–4 (Eng. Abstr.) (Jpn)

CYSTS

Posterior vitreous cyst. Steinmetz RL, et al. **Am J Ophthalmol** 1990 Mar 15;109(3):295–7
Choledochal cyst. A case report. Burkhalter E. **Am Surg** 1990 Jun;56(6):377–9 (13 ref.)
Cystic disease of the biliary tract. Cuschieri A, et al. **Ann Chir Gynaecol** 1989;78(4):259–66 (67 ref.)
Hematic cyst of the orbit. Loeffler M, et al. **Arch Ophthalmol** 1990 Jun;108(6):886–7
Elastoïdosis with cysts and comedones (Favre and Racouchot). Goeteyn M, et al. **Dermatologica** 1990; 180(3):194
Ontogenesis of colloid cysts [letter] Kondziolka D. **J Neurosurg** 1990 Aug;73(2):312
Parathyroid cysts. Turner A, et al. **J Otolaryngol** 1989 Oct; 18(6):311–3
Simple cyst of the testis. Dmochowski RR, et al. **J Urol** 1989 Oct;142(4):1078–81 (18 ref.)
Urogenital sinus–ejaculatory duct cyst: a case report with a proposed clinical classification and review of the literature. Mayersak JS. **J Urol** 1989 Nov;142(5):1330–2 (40 ref.)
Unusual presentation of a pediatric subpleural cyst. Quigley PM, et al. **Pediatr Pulmonol** 1989;7(3):174–7
Gas containing cysts in the epidural space [letter; comment] Beatty RA. **Spine** 1990 Apr;15(4):342 Comment on: Spine 1989 Dec;14(12):1378–83.
[Intracranial arachnoid cyst: report of 23 cases] Cao GX. **Chung Hua Wai Ko Tsa Chih** 1989 Jul;27(7):426–7, 446 (Eng. Abstr.) (Chi)
[Developmental cysts in the area of the quadrigeminal plate in children] Pařízek J, et al. **Cesk Neurol Neurochir** 1989 May;52(3):212–7 (Eng. Abstr.) (Cze)
[Cysts and pseudocysts of the parotid] Brocheriou C, et al. **Rev Stomatol Chir Maxillofac** 1990;91(4):281–5 (16 ref.) (Eng. Abstr.) (Fre)
[Cystic polyposis of the stomach (letter)] Stolte M. **Dtsch Med Wochenschr** 1990 Aug 3;115(31–32):1214 (Ger)
[Ultrasonically-guided aspiration of clear pelvic cysts] Caspi B, et al. **Harefuah** 1990 Jan 15;118(2):108–11 (Eng. Abstr.) (Heb)
[Cystic lesions in thyroid gland (editorial)] Kraus M, et al. **Harefuah** 1989 Jun 1;116(11):608–10 (Heb)
[Extrahepatic bile-filled cyst (biloma)] Nishinaka T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2250–4 (10 ref.) (Jpn)
[Polycystic disease of the liver] Karpenko VG, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):120–1 (Rus)
[Non-organ retroperitoneal serous cyst] Karabanov GN, et al. **Klin Khir** 1990;(5):48 (Rus)
[Diagnosis and treatment of liver cysts] Al'perovich BI, et al. **Sov Med** 1989;(12):80–2 (Rus)

ANALYSIS

Occurrence of colloid-containing follicles and ciliated cysts in the hypophysial pars tuberalis from guinea pigs of various ages. Kameda Y. **Am J Anat** 1990 Jun;188(2):185–98

CHEMICALLY INDUCED

Follicular and luteal cysts after treatment with gonadotropin-releasing hormone analog for in vitro fertilization. Ben-Rafael Z, et al. **Fertil Steril** 1990 Jun; 53(6):1091–4

CLASSIFICATION

[Classification for bullous emphysema based on analysis of chest wall motion and pulmonary function before and after bullectomy] Chihara K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Feb; 28(2):239–45 (Eng. Abstr.) (Jpn)

COMPLICATIONS

Aprosencephaly: review of the literature and report of a case with cerebellar hypoplasia, pigmented epithelial cyst and Rathke's cleft cyst. Kim TS, et al. **Acta Neuropathol (Berl)** 1990;79(4):424–31
Multiple meningeal cysts in Marfan syndrome. Robinson L, et al. **AJNR** 1989 Nov–Dec;10(6):1275–6
Lymphoepithelial cystic lesion related to adenocarcinoma in the mediastinum. Ishimaru Y, et al. **Am J Clin Pathol** 1989 Dec;92(6):808–13
Microphthalmos with cyst and Edwards' syndrome. Guterman C, et al. **Am J Ophthalmol** 1990 Feb 15; 109(2):228–30
Asphyxia due to a sialocyst [letter] Melcher MP. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1254
Intrahepatic biliary cysts in congenital biliary atresia. Fain JS, et al. **Arch Pathol Lab Med** 1989 Dec;113(12):1383–6
Massive extracapsular hemorrhage from a parathyroid cyst. Simcic KJ, et al. **Arch Surg** 1989 Nov;124(11):1347–50 (28 ref.)
Multiple pneumatocoeles and bilateral tension pneumothoraces complicating pneumocystis pneumonia in AIDS. Summers QA, et al. **Aust N Z J Med** 1990 Jun; 20(3):257–60
Angle closure glaucoma due to iris and ciliary body cysts. Thomas R, et al. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):317–9
Blood filled cyst of the papillary muscle of the mitral valve producing severe left ventricular outflow tract obstruction. Arnold IR, et al. **Br Heart J** 1990 Feb;63(2):132–3
Agminate lichen follicularis with cysts and comedones [letter] Rongioletti F, et al. **Br J Dermatol** 1990 Jun;122(6):844–5
Microphthalmos with colobomatous orbital cyst: clinical, histological, immunohistological, and electronmicroscopic findings. Lieb W, et al. **Br J Ophthalmol** 1990 Jan; 74(1):59–62
Cystic prostatic carcinoma. Wyatt MG, et al. **Br J Urol** 1989 Oct;64(4):430–1
Bobble-head doll syndrome associated with the III ventricular cyst. Three cases in children 7 years after CVP or CVA shunting. Pařízek J, et al. **Childs Nerv Syst** 1989 Aug;5(4):241–5 (25 ref.)
Leptomeningeal cyst of the orbit presenting with pulsatile exophthalmos. Abernethy LJ, et al. **Clin Radiol** 1989 Sep; 40(5):531–2
Calcified hepatic and renal cysts in adult dominant polycystic kidney disease. Coffin B, et al. **Dig Dis Sci** 1990 Sep; 35(9):1172–5
Cysts of the optic nerve three cases associated with

meningioma. Mcnab AA, et al. **Eye** 1989;3 (Pt 3):355–9

Congenital dacryocystocele with intranasal extension: correlation of computed tomography and magnetic resonance imaging. Menestrina LE, et al.
J Am Osteopath Assoc 1990 Mar;90(3):264–8

Adult polycystic liver presenting with progressive hepatic failure [letter] Nakanuma Y, et al. **J Clin Gastroenterol** 1989 Oct;11(5):592–4

Bilateral optic disc colobomas with orbital cysts and hypoplastic optic nerves and chiasm. Slamovits TL, et al.
J Clin Neuro Ophthalmol 1989 Sep;9(3):172–7

Unknown syndrome: radial ray defects, omphalocele, diaphragmatic hernia, and hepatic cyst. Gershoni-Baruch R, et al. **J Med Genet** 1990 Jun;27(6):403–4

Cystic angiomatosis of the skull presenting with extradural pneumocephalus. Case report. Morshed A, et al.
J Neurosurg 1990 Jun;72(6):968–70

Three cases with secondary generalized epilepsy caused by frontal organic lesion. Yamashita S, et al.
Jpn J Psychiatry Neurol 1989 Sep;43(3):485–6

Hepatic cysts in autosomal dominant polycystic kidney disease [comment] Everson GT. **Mayo Clin Proc** 1990 Jul; 65(7):1020–5 (16 ref.) Comment on: Mayo Clin Proc 1990 Jul;65(9):933–42.

Inferior vena caval compression by hepatic cysts: an unusual complication of adult polycystic kidney disease. Yaqoob M, et al. **Nephron** 1990;54(1):89–91

Post-traumatic subdural hygroma as a complication of arachnoid cysts of the middle fossa. Kulali A, et al.
Neurosurg Rev 1989;12 Suppl 1:508–13

Pituitary adenoma and parasellar cysts. Spaziante R, et al.
Neurosurgery 1990 Aug;27(2):299–302

Arachnoid cyst with complicating intracystic and subdural haemorrhage. Olsen NK, et al. **Rontgenblatter** 1990 Apr; 43(4):166–8

Spinal meningeal cyst concomitant with lumbar spondylolisthesis. A case report. Rojviroj S, et al. **Spine** 1990 May;15(5):432–3

[Sudden death due to undiagnosed congenital laryngeal cyst] Vanhoucke F, et al. **Acta Otorhinolaryngol Belg** 1989; 43(2):125–9 (Eng. Abstr.) **(Dut)**

[Hepatic malacoplakia as a complication of polycystosis (letter)] De Saint-Maur P, et al. **Ann Pathol** 1990;10(1):50–1 **(Fre)**

[Cystic prostatic utricle in adults. Apropos of 3 cases] Six A, et al. **Ann Urol (Paris)** 1989;23(6):499–503 (27 ref.) (Eng. Abstr.) **(Fre)**

[Recurrent paresis of the external popliteal sciatic nerve revealing an intraneural mucoid pseudocyst (letter)] Revol A, et al. **Presse Med** 1990 Mar 3;19(8):381–2 **(Fre)**

[Development of bronchio-alveolar cancer on strictly unilateral bullous dystrophy] Rosencher L, et al.
Rev Pneumol Clin 1989;45(6):264–6 (Eng. Abstr.) **(Fre)**

[Misinterpretation of the adhesio interthalamica and the commissura epithalamica (posterior) in occlusive hydrocephalus in the computed tomogram] Hussein S, et al. **Radiologe** 1990 Feb;30(2):75–8 (Eng. Abstr.) **(Ger)**

[A case from practice (152). Intermittent cerebrospinal fluid flow obstruction caused by colloid cysts in the foramen of Monro area] Lahiguera S.
Schweiz Rundsch Med Prax 1989 Nov 7;78(45):1267–8 **(Ger)**

[Adenocarcinoma of the duodenum associated with skin neurofibromatosis and Caroli's disease] Del Vecchio R, et al. **Minerva Chir** 1989 Dec 31;44(23–24):2421–6 (Eng. Abstr.) **(Ita)**

[Facial paralysis secondary to arachnoid cysts. Description of a case in a girl with precocious puberty] Bonora G, et al. **Pediatr Med Chir** 1989 May–Jun;11(3):343–5 (Eng. Abstr.) **(Ita)**

[Calcification of peritoneal cysts in a patient on periodic hemodialysis] Baldrati L, et al. **Radiol Med (Torino)** 1989 Oct;78(4):402–3 **(Ita)**

[Non-neuroectodermal epithelial cyst in the middle cranial fossa associated with unilateral exophthalmos] Inayama T, et al. **Nippon Ganka Gakkai Zasshi** 1990 Apr;94(4):432–40 (Eng. Abstr.) **(Jpn)**

[Obstructive jaundice from benign hepatic cysts] Kuraoka S, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):287–9 (Eng. Abstr.) **(Jpn)**

[A case of neurogenic bladder due to arachnoid cyst of the middle cranial fossa] Namima T, et al.
Nippon Hinyokika Gakkai Zasshi 1990 Jan;81(1):134–6 (Eng. Abstr.) **(Jpn)**

[A case of spherocytosis with complete deficiency of erythrocyte membrane protein band 4.2, accompanied with arachnoid cyst and congenital ocular anomalies] Ito H, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):990–1 **(Jpn)**

[A case of idiopathic herniation of the spinal cord associated with duplicated dura mater and with an arachnoid cyst] Oe T, et al. **Nippon Seikeigeka Gakkai Zasshi** 1990 Jan; 64(1):43–9 (9 ref.) (Eng. Abstr.) **(Jpn)**

[A case of carcinoma of the papilla Vater associated with multiple intramural bile duct cysts and polycystic disease] Kamiya Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug;86(8):1705–9 **(Jpn)**

[A case of arachnoid cyst in the posterior fossa with lower cranial nerve palsy] Takechi A, et al. **No Shinkei Geka** 1990 Jun;18(6):551–4 (Eng. Abstr.) **(Jpn)**

[Hepato-choledochal cyst] Polupan VN, et al.
Khirurgiia (Mosk) 1990 Jan;(1):85–6 **(Rus)**

[Complication of tumors and cysts of the abdominal cavity in children] Galdanov FKh, et al. **Vestn Khir** 1989 Oct; 143(10):53–5 (Eng. Abstr.) **(Rus)**

[Deformity of the nasal pyramid secondary to benign tumor of the nasal dorsum] Sanz Fernández R, et al.
Acta Otorrinolaringol Esp 1989 Jul–Aug;40(4):305–7 (Eng. Abstr.) **(Spa)**

[Spontaneous rupture of multiple cysts into the excretory tract in a case of cysts of the hilar sinus] Jiménez López-Lucendo N, et al. **Arch Esp Urol** 1989 Nov–Dec; 42(9):916–9 (Eng. Abstr.) **(Spa)**

[Adenocarcinoma in a choledochal cyst. Report of a case and review of the literature] Herrera Cabezón J, et al.
Rev Esp Enferm Apar Dig 1989 Oct;76(4):381–4 (27 ref.) (Eng. Abstr.) **(Spa)**

[Hepato-renal polycystic disease and liver hydatidosis (a rare association)] Coll MA, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):151–4 (Eng. Abstr.) **(Spa)**

CONGENITAL

TA-stapler resection of congenital splenic cyst. Case report. Uranüs S, et al. **Acta Chir Scand** 1990 Mar;156(3):247–9

Dilatation of the cystic duct with its congenital low entry into the common hepatic duct. Kise Y, et al.
Am J Gastroenterol 1990 Jun;85(6):769–70

Congenital cysts of the larynx. Bais AS, et al.
J Laryngol Otol 1989 Oct;103(10):966–7

Congenital labial cyst. Smith GH, et al.
J Paediatr Child Health 1990 Apr;26(2):104–5

Familial occurrence of congenital bile duct dilatation. Iwafuchi M, et al. **J Pediatr Surg** 1990 Mar;25(3):353–5 (7 ref.)

Solitary nonparasitic hepatic cyst causing abdominal distension and respiratory distress in a newborn. Merine D, et al. **J Pediatr Surg** 1990 Mar;25(3):349–50

Megacyst of the penis. Viljoen IM, et al. **J Urol** 1989 Nov; 142(5):1293–5

Ultrasonographical and morphological examination of subependymal cystic lesions in maturely born infants. Mito T, et al. **Neuropediatrics** 1989 Nov;20(4):211–4

Caroli disease: central dot sign in CT. Choi BI, et al.
Radiology 1990 Jan;174(1):161–3

Symptomatic nonparasitic cysts of the liver. Lai EC, et al.
World J Surg 1990 Jul–Aug;14(4):452–6

Bochdalek's hernia combined with agenesis of the pericardium and intrathoracic solitary cyst of the liver. Kapouleas GP, et al. **Z Kinderchir** 1989 Dec;44(6):377–8

[Intraduodenal development of diverticula of the lower choledochus. Apropos of 2 cases] Bona S, et al.
Ann Chir 1989;43(7):542–6 (Eng. Abstr.) **(Fre)**

[Carcinoma in situ in localized Caroli's disease] Joly I, et al. **Gastroenterol Clin Biol** 1990;14(1):90–2 (Eng. Abstr.) **(Fre)**

[Müllerian cyst. Apropos of a case of the prostatic region] Coche G, et al. **J Radiol** 1989 Nov;70(11):645–8 (20 ref.) (Eng. Abstr.) **(Fre)**

[Congenital cysts and fistulas of the neck (apropos of 129 cases)] Ennouri A, et al. **Tunis Med** 1989 Jun–Jul; 67(6–7):421–6 (Eng. Abstr.) **(Fre)**

[Pathogenesis of congenital vitreous cysts] Lisch W, et al.
Klin Monatsbl Augenheilkd 1989 Dec;195(6):375–8 (Eng. Abstr.) **(Ger)**

[Ultrasound image of an unusual intrahepatic site of a bile duct cyst] Mileder P, et al. **Ultraschall Med** 1990 Jun; 11(3):139–41 (Eng. Abstr.) **(Ger)**

[Two cases in siblings of congenital multiple cystic dilatation of peripheral intrahepatic bile ducts (so called Caroli's disease)] Haruta I, et al.
Nippon Shokakibyo Gakkai Zasshi 1989 Jun;86(6):1335–9 (11 ref.) **(Jpn)**

[Congenital intrastromal iridic cyst] Cernea P, et al.
Rev Chir [Oftalmol] 1989 Oct–Dec;33(4):281–6 (Eng. Abstr.) **(Rum)**

[Multicystic encephalomalacia in twin pregnancies] Sans Fito A, et al. **An Esp Pediatr** 1990 Feb;32(2):163–6 (Eng. Abstr.) **(Spa)**

[Caroli's disease: congenital cystic and segmentary dilatation of the intrahepatic bile ducts] Serra CA, et al.
Rev Fac Cien Med Univ Nac Cordoba 1987;45(2):28–30 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Fine needle aspiration biopsy of cystic lesions of the head and neck, excluding the thyroid. Dejmek A, et al.
Acta Cytol 1990 May–Jun;34(3):443–8

Papillary cystic neoplasm of the pancreas. Report of a case diagnosed by fine needle aspiration cytology. Jayaram G, et al. **Acta Cytol** 1990 May–Jun;34(3):429–33

Fine needle aspiration biopsy of peripancreatic lymphoepithelial cysts [letter] Mitchell ML. **Acta Cytol** 1990 May–Jun;34(3):462–3

On the diagnosis and pathogenesis of intramural maxillary cysts. Berg O, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):464–8

Magnetic resonance imaging of an epidural spinal arachnoid cyst. Hald JK, et al. **Acta Radiol** 1989 Sep–Oct;30(5):491–3

Epididymitis associated with müllerian duct cyst and calculus: sonographic diagnosis. Ardill RH, et al.
AJR Am J Roentgenol 1990 Jul;155(1):91–2

Revised classification of posterior fossa cysts and cystlike malformations based on the results of multiplanar MR imaging. Barkovich AJ, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1289–300

Colloid cysts of the third ventricle: correlation of MR and CT findings with histology and chemical analysis. Maeder PP, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):135–41

Midline cyst of the prostate [letter] Sener RN, et al.
AJR Am J Roentgenol 1990 Sep;155(3):656–7

Acquired spinal subarachnoid cysts: evaluation with MR, CT myelography, and intraoperative sonography. Sklar E, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):1057–64

Large atrial septal aneurysm mimicking a cystic right atrial mass. Smith AJ, et al. **Am Heart J** 1990 Sep;120(3):714–6

Pseudocyst of the auricle [letter] Cohen PR, et al.
Am J Med 1990 Aug;89(2):249–50 (8 ref.)

Systemic cystic angiomatosis in pregnancy: a case presentation and review of the literature. Bardeguez A, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):42–5

Late disappearance of fetal choroid plexus cyst: case report and review of the literature. Lodeiro JG, et al.
Am J Perinatol 1989 Oct;6(4):450–2 (6 ref.)

Colloid cyst of the third ventricle. Read EJ Jr.
Ann Emerg Med 1990 Sep;19(9):1060–2

Cystic thyroid nodules. The dilemma of malignant lesions [see comments] de los Santos ET, et al.
Arch Intern Med 1990 Jul;150(7):1422–7 Comment in: Arch Intern Med 1990 Jul;150(7):1376–7.

Cyst of the posterior vitreous. Feman SS, et al.
Arch Ophthalmol 1974 Apr;91(4):328–9

Free-floating cyst of the retrolental space. Sugar HS, et al.
Arch Ophthalmol 1990 Apr;108(4):483–4

Is that another Thornwaldt's cyst on M.R.I.? Battino RA, et al. **Australas Radiol** 1990 Feb;34(1):19–23

Haemorrhagic pseudocyst of the adrenal in an adult (a case report). Challa S, et al. **Australas Radiol** 1989 Nov; 33(4):402–3

Oleocysts presenting as rectal tumours. Webb AJ.
Br J Surg 1966 May;53(5):410–3

Seminal vesicle cystic dilatation masquerading as proctalgia fugax. Khan A, et al. **Br J Urol** 1989 Oct;64(4):428–9

Adrenal cysts: diagnosis and management. Sroujieh AS, et al. **Br J Urol** 1990 Jun;65(6):570–5

magnetic resonance diagnosis of spinal arachnoid cyst. A report of two cases. Jena A, et al. **Childs Nerv Syst** 1990 Mar;6(2):107–9

Magnetic resonance imaging of arachnoid cysts. Heier LA, et al. **Clin Imaging** 1989 Dec;13(4):281–91

Anterolateral lumbar meningocele presenting as an ovarian cyst, in a patient with neurofibromatosis. Scheltens P, et al. **Clin Neurol Neurosurg** 1989;91(4):351–4

The value of MRI in the study of spinal extradural arachnoid cysts. Boisserie-Lacroix M, et al.
Comput Med Imaging Graph 1990 May–Jun;14(3):221–3

Parotid disease associated with human immunodeficiency virus infection. Sperling NM, et al. **Ear Nose Throat J** 1990 Jul;69(7):475–7

Cutaneous ciliated cyst: a case report and immunohistochemical comparison with fallopian tube. al-Nafussi AI, et al. **Histopathology** 1990 Jun;16(6):595–8

Middle fossa arachnoid cysts. Sharma SC, et al.
Indian Pediatr 1989 Jul;26(7):720–3

Deep nabothian cysts of the uterine cervix. A possible source of confusion with minimal-deviation adenocarcinoma (adenoma malignum). Clement PB, et al.
Int J Gynecol Pathol 1989;8(4):340–8

CT and MRI in spinal meningeal cyst. Report of a case. Decrop E, et al. **J Belge Radiol** 1990 Mar;73(2):129–33

Comparative neuroimaging with pathologic correlates in Alexander's disease. Hess DC, et al. **J Child Neurol** 1990 Jul;5(3):248–52

Craniospinal enterogenous cyst: MR findings. Kak VK, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):470–2

Colloid cysts of the third ventricle: MR findings. Wilms G, et al. **J Comput Assist Tomogr** 1990 Jul–Aug;14(4):527–31

Nasopharyngeal cyst simulating Kaposi's sarcoma in an HIV-infected patient. Harrison HC, et al.
J Laryngol Otol 1990 Jun;104(6):498–500

Porencephalic cyst in pycnodysostosis. Figueiredo J, et al.
J Med Genet 1989 Dec;26(12):782–4

Neuroepithelial cysts of the posterior fossa. Case report. Ciricillo SF, et al. **J Neurosurg** 1990 Feb;72(2):302–5

Enterogenous cyst of the spinal cord terminal cone. Clinical and radiological aspects (CT and MRI). Esposito S, et al.
J Neurosurg Sci 1989 Jul–Sep;33(3):287–9

Neurosonographic features of periventricular echodensities associated with cerebral palsy in preterm infants. Pidcock FS, et al. **J Pediatr** 1990 Mar;116(3):417–22

Omental and mesenteric cysts in Nigerian children. Adejuyigbe O, et al. **J R Coll Surg Edinb** 1990 Jun; 35(3):181–4

Septic ischial bursitis in systemic lupus erythematosus presenting as a perirectal mass. Lambie P, et al.
J Rheumatol 1989 Nov;16(11):1497–9 (12 ref.)

Cystic lesions of the prostate gland. A sonographic—pathologic correlation. Hamper UM, et al.
J Ultrasound Med 1990 Jul;9(7):395–402

Cysts of the semilunar cartilages of the knee: a new approach by ultrasound imaging. A study of six cases and review of the literature. Peetrons P, et al. **J Ultrasound Med** 1990 Jun;9(6):333–7 (30 ref.)

Cystic dilatations within the pelvis in patients with ipsilateral renal agenesis or dysplasia. Sheih CP, et al. **J Urol** 1990 Aug;144(2 Pt 1):324–7

In utero ultrasonic detection of fetal arachnoid cyst. Meizner I, et al. **JCU** 1988 Sep;16(7):506–9

Ultrasonography of nodular and infiltrative lesions of the skin and subcutaneous tissues. Nessi R, et al. **JCU** 1990 Feb;18(2):103–9

Nonparasitic splenic cysts. Hoffman E, et al. **Md Med J** 1990 Jul;39(7):671–4 (26 ref.)

Ileal duplication cyst: repeated spontaneous decompression delays diagnosis. Brown DM, et al. **Milit Med** 1989 Nov; 154(11):553–5

Arachnoiditis ossificans with arachnoid cyst after cranial tuberculous meningitis. Van Paesschen W, et al. **Neurology** 1990 Apr;40(4):714–6

The value of different neuro-imaging methods in the diagnosis of a congenital, spinal, epidural meningeal cyst. Langenbach M, et al. **Neurosurg Rev** 1989;12(3):245–9

Characteristics of incidental pineal cysts on magnetic resonance imaging. Sandhu JS, et al. **Neurosurgery** 1989 Oct;25(4):636–9; discussion 640

Tornwaldt's cyst: case report with magnetic resonance imaging (MRI). Shank EC, et al. **Otolaryngol Head Neck Surg** 1990 Feb;102(2):169–73

Pharyngeal cleft sinuses and cysts, and other benign neck lesions. Friedberg J. **Pediatr Clin North Am** 1989 Dec; 36(6):1451–69 (18 ref.)

Enteric duplication cysts in children: are their ultrasonographic wall characteristics diagnostic? Barr LL, et al. **Pediatr Radiol** 1990;20(5):326–8

Esophageal duplication cyst and aberrant right subclavian artery mimicking a symptomatic vascular ring. Helund GL, et al. **Pediatr Radiol** 1989;19(8):543–4

Ultrasound in intussusception: a false cystic lead point. Kenney IJ. **Pediatr Radiol** 1990;20(5):348

Prospective study on trisomy 18 and fetal choroid plexus cysts [letter] Camurri L, et al. **Prenat Diagn** 1989 Oct; 9(10):742

Schizophrenia-like psychosis associated with an arachnoid cyst visualized by mapping of EEG and P300. Lanczik M, et al. **Psychiatry Res** 1989 Sep;29(3):421–3

Cystic lesions of the prostate. Nghiem HT, et al. **Radiographics** 1990 Jul;10(4):635–50 (26 ref.)

Fetal choroid plexus cysts: a report of 100 cases. Ostlere SJ, et al. **Radiology** 1990 Jun;175(3):753–5

Postsurgical hematic cyst simulating a conjunctival melanoma. Lieb WE, et al. **Retina** 1990;10(1):63–7

Parathyroid cyst: case report of a rare surgical lesion of the neck. Mills KA, et al. **S D J Med** 1990 Apr;43(4):15–7

Case study: Case No. 1. Müllerian duct cyst. Gilbert TJ. **Semin Ultrasound CT MR** 1988 Oct;9(5):374

Imaging of meniscal cyst of the knee in three cases. Coral A, et al. **Skeletal Radiol** 1989;18(6):451–5

Nonparasitic hepatic cysts detected in ultrasonographic examination: analysis of 95 cases. Chang CS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):394–9

Prostatic cyst: report of 2 cases. Chang SC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar;88(3):282–5

Müllerian duct cyst: ultrasonographic and computed tomographic spectrum. Higashi TS, et al. **Urol Radiol** 1990; 12(1):39–44

[Benign tumors and cysts of the liver] Astrukov E, et al. **Khirurgiia (Sofiia)** 1990;43(1):63–8 (22 ref.) (Bul)

[Primary retroperitoneal cyst in a 21-year-old woman] Thunedborg LP, et al. **Ugeskr Laeger** 1990 Aug 20; 152(34):2439 (Eng. Abstr.) (Dan)

[Anterior rectal duplication. Value of ultrasonic diagnosis] Tréguier C, et al. **Arch Fr Pediatr** 1990 Jan;47(1):29–31 (Eng. Abstr.) (Fre)

["Bell clappers" with "ophthalmologic alarm". Apropos of 2 cases of colloid cysts of the 3d ventricle] Pon A, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):244–7 (Eng. Abstr.) (Fre)

[Choledochal cyst] Mozziconacci JG, et al. **Pediatrie** 1990; 45(3):197–201 (21 ref.) (Eng. Abstr.) (Fre)

[Posterior articular pseudocyst (letter)] Leroux JL, et al. **Rev Rhum Mal Osteoartic** 1990 May;57(5):444–5 (Fre)

[An unusual "tumor-like finding" between the head of the pancreas and the duodenal wall] Palitzsch KD, et al. **Dtsch Med Wochenschr** 1990 Mar 30;115(13):496–500 (Eng. Abstr.) (Ger)

[Cystic polyposis of the stomach] Zeuzem S, et al. **Dtsch Med Wochenschr** 1990 Apr 27;115(17):653–6 (Eng. Abstr.) (Ger)

[Pseudocyst of the adrenals] Kreft B, et al. **ROFO** 1990 Feb; 152(2):231–2 (Ger)

[Cystic adventitional degeneration of the popliteal artery: preoperative diagnosis using imaging technics] Esser PW. **Rontgenblatter** 1990 Apr;43(4):150–6 (Eng. Abstr.) (Ger)

[Duplex sonography: a highly echogenic splenic cyst or splenomegaly?] Korn MA, et al. **Rontgenblatter** 1990 Mar; 43(3):107–8 (Eng. Abstr.) (Ger)

[An intraspinal perineural cyst] Stetter G, et al. **Rontgenpraxis** 1989 Dec;42(12):415–7 (Ger)

[Transcranial sonography and duplex sonography in children with cysts and tumors of the cranial base] Schöning M, et al. **Ultraschall Med** 1989 Oct;10(5):245–9 (Eng. Abstr.) (Ger)

[Pancreatitis-induced pseudocysts of the spleen: a rare complication] Weber J, et al. **Ultraschall Med** 1990 Jun; 11(3):123–6 (Eng. Abstr.) (Ger)

[Duodenal duplication cyst] Nobel M, et al. **Harefuah** 1990 Apr 1;118(7):391–2 (Eng. Abstr.) (Heb)

[Polycystic lung in an adult diagnosed by ultrasound] Fraknói R, et al. **Orv Hetil** 1990 Apr 1;131(13):701–3 (Eng. Abstr.) (Hun)

[Cystic lesions of the mucosa of the maxillary sinus. Clinical considerations and differential diagnosis] Romagnoli R, et al. **Minerva Stomatol** 1989 Sep;38(9):1009–14 (Eng. Abstr.) (Ita)

[Simple testicular cysts in children. Presentation of a case] Seymandi PL, et al. **Pediatr Med Chir** 1989 Jul–Aug; 11(4):471–2 (Eng. Abstr.) (Ita)

[Adrenal pseudocysts. CT and US findings in 2 cases] Liessi G, et al. **Radiol Med (Torino)** 1989 Sep;78(3):261–3 (Ita)

[Ultrasonography in syringocele of the male urethra (ultrasound-urethrography)] Pavlica P, et al. **Radiol Med (Torino)** 1989 Oct;78(4):348–50 (Eng. Abstr.) (Ita)

[Surgical ultrasonography of the seminal vesicles in andrologic pathology. Research in progress] Stasi G, et al. **Radiol Med (Torino)** 1989 Oct;78(4):358–62 (Eng. Abstr.) (Ita)

[Infectious cysts of a müllerian duct: a case report] Cho M, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1951–4 (24 ref.) (Eng. Abstr.) (Jpn)

[Two cases of adrenal cysts—the meaning of imaging in diagnosing adrenal cysts] Ito N, et al. **Hinyokika Kiyo** 1989 Jul;35(7):1161–6 (Eng. Abstr.) (Jpn)

[Cerebral cysticercosis presenting as a solitary cyst. Diagnosis and treatment with CT-guided stereotactic biopsy—case report] Hashimoto T, et al. **Neurol Med Chir (Tokyo)** 1989 Jun;29(6):520–4 (22 ref.) (Eng. Abstr.) (Jpn)

[Porencephaly. Case report] Matsumae M, et al. **Neurol Med Chir (Tokyo)** 1989 Apr;29(4):347–51 (Eng. Abstr.) (Jpn)

[Antenatal detection of developing nervous system abnormalities and perinatal surgical management] Morimoto K, et al. **No Shinkei Geka** 1989 Oct; 17(10):965–71 (Eng. Abstr.) (Jpn)

[Cystic thyroid masses: ultrasonographic and pathologic correlation] Hiromura T, et al. **Rinsho Hoshasen** 1989 Sep; 34(9):983–9 (Eng. Abstr.) (Jpn)

[MR imaging of a spinal arachnoid cyst: report of two cases] Uchino A, et al. **Rinsho Hoshasen** 1990 Mar;35(3):411–4 (Eng. Abstr.) (Jpn)

[Urinary pseudocysts of the retroperitoneal space in ureteral injuries] Krasovskiĭ AP, et al. **Klin Khir** 1989;(12):46–7 (Rus)

[Polycystic disease of the liver] Ponomarev AA. **Sov Med** 1989;(6):30–3 (33 ref.) (Rus)

[Prostatic cyst] Simchenko NI, et al. **Urol Nefrol (Mosk)** 1990 Jan–Feb;(1):65–6 (Rus)

[Cyst of the omental appendage of the sigmoid] Abdulzhavadov IM. **Vestn Khir** 1989 Sep;143(9):54–5 (Rus)

[Serous cyst of the round ligament of the liver] Smirnov VE, et al. **Vestn Khir** 1989 Jul;143(7):60–1 (Rus)

[Multi-chamber cyst-like lymphangioma of the round ligament of the liver in a child] Zaev KN. **Vestn Khir** 1989 May;142(5):81–2 (Rus)

[Nonparasitic cysts of the liver] Zinevich. **Vestn Khir** 1989 Oct;143(10):46–8 (Rus)

[Postoperative lumbar cerebrospinal fluid cysts] Blagodatskiĭ MD, et al. **Zh Vopr Neirokhir** 1989 May–Jun;(3):55–6 (Rus)

[Cystic tumors of the laryngeal ventricle] Ceballo Pedraja JM, et al. **Acta Otorrinolaringol Esp** 1988 Sep–Oct; 39(5):353–6 (22 ref.) (Eng. Abstr.) (Spa)

[Prenatal diagnosis of a splenic cyst] Badía Barnusel J, et al. **An Esp Pediatr** 1990 Apr;32(4):361–2 (Spa)

[Cystic lymphangioma of epiploon simulating ascites. Presentation of a case and review of the literature] de la O-Cavazos ME, et al. **Bol Med Hosp Infant Mex** 1990 Apr;47(4):270–5 (30 ref.) (Eng. Abstr.) (Spa)

[Usefulness of endoscopic retrograde cholangiopancreatography in diagnosis of choledochal cysts in children] Guelrud M, et al. **GEN** 1989 Jan–Mar; 43(1):9–12 (Eng. Abstr.) (Spa)

DRUG THERAPY

[Giant hepatic cyst effectively treated by transdermal transhepatic ethanol injection therapy. A case report] Tomitaka S, et al. **Fukuoka Igaku Zasshi** 1990 Jun; 81(6):226–30 (Eng. Abstr.) (Jpn)

[A non-parasitic huge hepatic cyst with obstructive jaundice treated with absolute ethanol] Komiyama K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Nov; 86(11):2597–601 (Jpn)

[Treatment of hepatic cyst by injection of minocycline hydrochloride] Ohmoto K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):273–7 (Jpn)

[The use of the preparation Kenalog-40 for treating chalazion in children] Ionova TA. **Oftalmol Zh** 1989;(7):441–2 (Rus)

EPIDEMIOLOGY

Are choroid plexus cysts an indication for second-trimester amniocentesis? Benacerraf BR, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1001–6

The prevalence and clinical significance of maxillary sinus mucous retention cysts in a general clinic population. Rhodus NL. **Ear Nose Throat J** 1990 Feb;69(2):82, 84, 86–7

ETIOLOGY

Leptomeningeal cyst and vacuum extraction. Vanhasebrouck PJ, et al. **Acta Paediatr Scand** 1990 Feb; 79(2):232–3

Leptomeningeal cyst: nonenhanced and enhanced computed tomography findings. Nalls G, et al. **Am J Emerg Med** 1990 Jan;8(1):34–5

Dorsal nasal cyst formation. A rare complication of cosmetic rhinoplasty. Harley EH, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jan;116(1):105–6

Subglottic cysts in the premature infant. Smith JD, et al. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):479–82

Tubal cyst following tubal sterilization: a delayed complication. Lin HH, et al. **Asia Oceania J Obstet Gynaecol** 1989 Sep;15(3):271–6

Post-keratoplasty epithelial cyst: an unusual complication. Fong LP, et al. **Aust N Z J Ophthalmol** 1990 May; 18(2):226–7

Traumatic extradural spinal cysts: a case report and review of the literature [see comments] Rawlings CE 3d, et al. **Br J Neurosurg** 1989;3(3):403–8 (16 ref.) Comment in: Br J Neurosurg 1989;3(6):743–4.

Bilateral paramediastinal post-traumatic lung cysts. Ulstad DR, et al. **Chest** 1990 Jan;97(1):242–4

Cystic thyroid mass following I-131 treatment of papillary thyroid carcinoma: an unusual complication. Morrish DW, et al. **Clin Nucl Med** 1989 Dec;14(12):894–6

Terrien's marginal degeneration with corneal cyst. Romanchuk KG, et al. **Cornea** 1990 Jan;9(1):86–7

Photochemically induced cystic lesion in the rat spinal cord. I. Behavioral and morphological analysis. Cameron T, et al. **Exp Neurol** 1990 Aug;109(2):214–23

A case of the pathogenesis of choledochocele in relation to dysfunction of the sphincter of Oddi. Ide M, et al. **Gastroenterol Jpn** 1989 Oct;24(5):561–6

Cystic parotid masses in HIV infection. Sperling NM, et al. **Head Neck** 1990 Jul–Aug;12(4):337–41

Acquired cystic transformation of the rete testis secondary to renal failure. Nistal M, et al. **Hum Pathol** 1989 Nov; 20(11):1065–70

Giant meibomian cyst—a case report. Sandhya CS, et al. **Indian J Ophthalmol** 1989 Jul–Sep;37(3):148–9

Porencephaly—a potentially avoidable complication of neonatal meningitis. Gambhir A, et al. **Indian Pediatr** 1989 May;26(5):489–92

Cystic degeneration of the lateral meniscus. Pathogenesis and diagnostic approach. Romanini L, et al. **Ital J Orthop Traumatol** 1988 Dec;14(4):493–500

Radiation-induced bilateral cystic temporal lobe necrosis: reversal of memory deficit after fenestration and internal shunting. Case report. Bederson JB, et al. **J Neurosurg** 1990 Mar;72(3):503–5

Transformation of corneal epithelial cyst into anterior chamber implantation cyst and scleral cyst: a rare occurrence. Avni I, et al. **J Pediatr Ophthalmol Strabismus** 1989 Nov–Dec; 26(6):303–6

A traumatic splenic pseudocyst—historical review, diagnosis, and current mode of treatment. Edmond RE, et al. **J Trauma** 1990 Mar;30(3):349–52

Post-traumatic pulmonary pseudocyst in the adult: pathophysiology, recognition, and selective management. Moore FA, et al. **J Trauma** 1989 Oct;29(10):1380–5

Intraosseous location of posterior fossa posttraumatic leptomeningeal cyst. Demonstration by computerized tomography. Palaoglu S, et al. **Neuroradiology** 1990; 32(1):78

Cystic degeneration following severe spinal trauma. Clinical observations in 30 patients. Löhlein A, et al. **Neurosurg Rev** 1990;13(1):41–4

Management of encapsulated filtration blebs. Shingleton BJ, et al. **Ophthalmology** 1990 Jan;97(1):63–8

Pseudocysts of the abdomen associated with ventriculoperitoneal shunts: a report of twelve cases and a review of the literature. Gaskill SJ, et al. **Pediatr Neurosci** 1989;15(1):23–6; discussion 26–7 (21 ref.)

Progression of pulmonary cystic disease during ECMO. Gross GW, et al. **Pediatr Radiol** 1990;20(3):191

Intrahepatic encystment of umbilical vein catheter infusate. Levkoff AH, et al. **Pediatr Radiol** 1990;20(5):360–1

Subarachnoid cyst with hydrocephalus—a complication of mid-trimester amniocentesis. Chong SK, et al. **Prenat Diagn** 1989 Sep;9(9):677–9

Thin-walled cavities, cysts, and pneumothorax in Pneumocystis carinii pneumonia: further observations with histopathologic correlation. Feurestein IM, et al. **Radiology** 1990 Mar;174(3 Pt 1):697–702

Clinical and roentgenological profiles and etiological correlations of encysted pleural effusions. Pasricha P, et al. **Respiration** 1990;57(1):40–4

Staphylococcal pneumonia, pneumatoceles, and the toxic shock syndrome. Davidson AC, et al. **Thorax** 1990 Aug; 45(8):639–40

Cystic lung in Marfan's syndrome. Sharma BK, et al. **Thorax** 1989 Nov;44(11):978–9

[A case of iatrogenic rupture of the urethra with a retrovesical urinoma] Donovski L, et al. **Khirurgiia (Sofiia)** 1989;42(4):72–4 (Bul)

[Urinoma in newborn infants complicating congenital uropathy. 4 cases] Soulez G, et al. **J Radiol** 1989 Aug–Sep; 70(8–9):471–6 (33 ref.) (Eng. Abstr.) (Fre)

[Pseudomyxoma peritonei with myxoglobulosis—a case

report and the pathogenesis of the myxoglobules] Tanimura A, et al. **Gan No Rinsho** 1989 Dec;35(15):1795–9 (Eng. Abstr.) **(Jpn)**

[Three cases of traumatic lung cyst] Suzuki T, et al. **Kyobu Geka** 1989 Jul;42(7):525–8 (Eng. Abstr.) **(Jpn)**

[Arteriovenous malformation associated with cyst. Case report] Takifuji K, et al. **Neurol Med Chir (Tokyo)** 1989 Apr;29(4):338–41 (12 ref.) (Eng. Abstr.) **(Jpn)**

[A case of syringomyelia associated with postoperative extradural cyst and adhesive arachnoiditis] Horimoto C, et al. **No Shinkei Geka** 1989 Sep;17(9):867–70 (Eng. Abstr.) **(Jpn)**

[Lesions of the central nervous system in systemic lupus erythematosus in the computerized-tomographic image] Ivanova MM, et al. **Klin Med (Mosk)** 1989 Dec;67(12):93–7 (Eng. Abstr.) **(Rus)**

[Retention cysts of the lungs] Gronostalskiĭ VS, et al. **Sov Med** 1989;(6):87–8 **(Rus)**

[Post-traumatic leptomeningeal cysts of the scalp in children] Konjhodžić F. **Med Arh** 1988;42(1–2):45–6 (Eng. Abstr.) **(Scr)**

[Obstructive uropathy in Gardner's syndrome. Intra-abdominal desmoid tumor] Olivier Gómez CM, et al. **Actas Urol Esp** 1989 Sep–Oct;13(5):329–38 (39 ref.) (Eng. Abstr.) **(Spa)**

[Headache secondary to an extradural cyst after lumbar disk surgery (letter)] Martín-Ferrer S. **Neurologia** 1989 Apr; 4(3):109–10 **(Spa)**

[Gigantic non-parasitic cyst of the liver (letter)] Fernández Fernández J, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):74–5 **(Spa)**

GENETICS

Polycystic kidney of autosomal dominant inheritance, polycystic liver and congenital hepatic fibrosis in a single kindred. Matsuda O, et al. **Am J Nephrol** 1990;10(3):237–41

Symptomatic neuroepithelial (colloid) cysts of the third ventricle. A unique case report in nontwin brothers. Bengtson BP, et al. **Cancer** 1990 Aug 15;66(4):779–85

Risk factors for the development of hepatic cysts in autosomal dominant polycystic kidney disease. Gabow PA, et al. **Hepatology** 1990 Jun;11(6):1033–7

Rate of chromosomal aberrations in prenatally detected hydrops fetalis and hygroma colli. Schwanitz G, et al. **Hum Genet** 1989 Dec;84(1):81–2

[Dominant inheritance of pupillary pigment cysts. A follow-up study] Huismans H. **Klin Monatsbl Augenheilkd** 1990 Jun;196(6):486–8 (Eng. Abstr.) **(Ger)**

[Lip pits and Van der Woude syndrome. Description of a new familial case] Rizzo A, et al. **Pediatr Med Chir** 1990 Jan–Feb;12(1):99–103 (Eng. Abstr.) **(Ita)**

HISTORY

[Chalazion or basalioma in an oil painting of the National Portraits Gallery in London] Roth W, et al. **Hautarzt** 1989 Dec;40(12):787–8 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Immunoheterogeneity of parathyroid hormone in parathyroid cysts: diagnostic implications. Birnbaum J, et al. **J Endocrinol Invest** 1989 Dec;12(11):831–6

Assessment of human natural killer and lymphokine-activated killer cell cytotoxicity against Toxoplasma gondii trophozoites and brain cysts. Dannemann BR, et al. **J Immunol** 1989 Oct 15; 143(8):2684–91

METABOLISM

Ciliated hepatic foregut cyst. A mucus histochemical, immunohistochemical, and ultrastructural study in three cases in comparison with normal bronchi and intrahepatic bile ducts. Terada T, et al. **Am J Surg Pathol** 1990 Apr; 14(4):356–63

Increased secondary bile acids in a choledochal cyst. Possible role in biliary metaplasia and carcinoma. Reveille RM, et al. **Gastroenterology** 1990 Aug;99(2):525–7

[Minor symptoms in family practice; the chalazion] Bergink GJ, et al. **Ned Tijdschr Geneeskd** 1989 Oct 14; 133(41):2024–5 **(Dut)**

MICROBIOLOGY

Frequent isolation of capnophilic bacteria in aspirate from Bartholin's gland abscesses and cysts. Quentin R, et al. **Eur J Clin Microbiol Infect Dis** 1990 Feb;9(2):138–41

Coccidioides immitis: an unusual presentation. Bried JM, et al. **Orthopedics** 1990 Mar;13(3):345–7

[Microbiologic studies of cysts and abscesses of Bartholin's gland] Quentin R, et al. **Rev Fr Gynecol Obstet** 1990 May; 85(5):328 **(Fre)**

PATHOLOGY

Cytologic findings in multicystic peritoneal mesothelioma. Baddoura FK, et al. **Acta Cytol** 1990 Jul–Aug;34(4):524–8 (32 ref.)

Cystic thyroid nodules harboring malignancy: a problem in fine needle aspiration cytodiagnosis [letter] Jayaram G, et al. **Acta Cytol** 1989 Nov–Dec;33(6):941–2

Fine needle aspiration of cystic liver lesions. Cytologic examination and carcinoembryonic antigen assay of cyst contents. Pinto MM, et al. **Acta Cytol** 1989 Nov–Dec; 33(6):852–6

Intratumoural cyst formation in pituitary macroadenomas. Ram Z, et al. **Acta Neurochir (Wien)** 1989;100(1–2):56–61

Pathological changes in cystic craniopharyngiomas following intracavital 90yttrium treatment. Szeifert GT, et al. **Acta Neurochir (Wien)** 1990;102(1–2):14–8

Colloid cysts of the third ventricle: correlation of MR and CT findings with histology and chemical analysis. Maeder PP, et al. **AJNR** 1990 May;11(3):575–81

Lymphoepithelial cysts of the salivary glands. Histologic and cytologic features. Elliott JN, et al. **Am J Clin Pathol** 1990 Jan;93(1):39–43

Large cystic granulosa cell tumor: case report. Choi CH, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):74–6

Posterior vitreous cyst [letter] Lisch W. **Am J Ophthalmol** 1990 Sep 15;110(3):326

Thyroid cysts [letter] Carney JA. **Am J Surg Pathol** 1989 Dec;13(12):1072–4

Cystic endocervical tunnel clusters. A clinicopathologic study of 29 cases of so-called adenomatous hyperplasia. Segal GH, et al. **Am J Surg Pathol** 1990 Oct;14(10):895–903

Needle aspiration of nonfunctioning parathyroid cysts. Prinz RA, et al. **Am Surg** 1990 Jul;56(7):420–2

Malignant change in cysts of the skin. Linton PC, et al. **Ann Plast Surg** 1986 Mar;16(3):253–6

Cystic thyroid nodules. The dilemma of malignant lesions [editorial; comment] Grant CS, et al. **Arch Intern Med** 1990 Jul;150(7):1376–7 Comment on: Arch Intern Med 1990 Jul;150(7):1422–7.

Pathologic quiz case 2. Benign lymphoepithelial cyst of the parotid gland associated with HIV infection. Debo RF, et al. **Arch Otolaryngol Head Neck Surg** 1990 Apr; 116(4):486–7, 489

Melanotic peritoneal cyst. Light-microscopic and ultrastructural studies. Drachenberg CB, et al. **Arch Pathol Lab Med** 1990 May;114(5):463–7

Congenital oral cyst with heterotopic gastrointestinal and respiratory mucosa. Mirchandani R, et al. **Arch Pathol Lab Med** 1989 Nov;113(11):1301–2 (6 ref.)

The liver in autosomal dominant polycystic kidney disease. Implications for pathogenesis. Ramos A, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):180–4

Adenomatoid tumors. Adrenal cysts and being first [comment] Siegal GP. **Arch Pathol Lab Med** 1990 Jul; 114(7):641–2 Comment on: Arch Pathol Lab Med 1990 Jul;114(7):722–4. Comment on: Arch Pathol Lab Med 1990 Jul;114(7):725–7.

Penile nodule in a young adult. Choudhury SR, et al. **Aust N Z J Surg** 1990 Jun;60(6):486–7

Cartilaginous pseudocyst of the external auricle in children with atopic eczema. Devlin J, et al. **Br J Dermatol** 1990 May;122(5):699–704

Cutaneous focal mucinosis. Nishiura S, et al. **Br J Dermatol** 1989 Oct;121(4):511–5

Parameatal urethral cysts of the glans penis. Koga S, et al. **Br J Urol** 1990 Jan;65(1):101–3

Meniscal cysts. Lantz B, et al. **Clin Sports Med** 1990 Jul; 9(3):707–25 (61 ref.)

Proliferating trichilemmal cysts over the vulva. Ramesh V, et al. **Cutis** 1990 Mar;45(3):187–9

Placental site nodule. Lee KC, et al. **Histopathology** 1990 Feb;16(2):193–5

Cyst of ectopic (choristomatous) lacrimal gland. Rao VA, et al. **Indian J Ophthalmol** 1989 Oct–Dec;37(4):189–90

Adult polycystic liver and the Meyenburg complexes biliary ectasia. Naim M, et al. **Indian J Pathol Microbiol** 1987 Apr; 30(2):151–5

Lymph node metastases from an occult sclerosing carcinoma of the thyroid. A case report. Santini L, et al. **Ital J Surg Sci** 1989;19(3):277–9

Cystic medial necrosis of the aorta in patients without Marfan's syndrome: surgical outcome and long-term follow-up. Marsalese DL, et al. **J Am Coll Cardiol** 1990 Jul;16(1):68–73

Branchial cleft heterotopia of the lower neck. Coleman WR, et al. **J Cutan Pathol** 1989 Dec;16(6):353–8

Trichilemmal cyst under a compound melanocytic nevus. Requena L, et al. **J Cutan Pathol** 1990 Jun;17(3):185–8

An unusual hybrid cyst in Gardner's syndrome with partial differentiation toward the inner root sheath. Narisawa Y, et al. **J Dermatol** 1989 Dec;16(6):492–5

The microanatomy of the intrahepatic bile duct in polycystic disease: comparison of the cpk mouse and human. Grimm PC, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):119–31

Unusual laryngeal cyst. Wansa SA, et al. **J Laryngol Otol** 1990 Feb;104(2):145–6

Benign symptomatic glial cysts of the pineal gland: a report of seven cases and review of the literature. Klein P, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):991–5 (19 ref.)

Neuroepithelial cysts of the posterior fossa. Case report. Ciricillo SF, et al. **J Neurosurg** 1990 Feb;72(2):302–5

Lymphoepithelial parotid cysts as presenting symptom of immunodeficiency virus infection: clinical, sialographic, and magnetic resonance imaging findings. Marmary Y, et al. **J Oral Maxillofac Surg** 1990 Sep;48(9):981–4

Benign lymphoepithelial lesion with large cysts: case report. Hong SS, et al. **J Oral Pathol Med** 1990 Jul;19(6):266–70

Bilateral breast masses and bloody nipple discharge in a 4-year-old boy. Miller JD, et al. **J Pediatr** 1990 May; 116(5):744–7

Squamous cell carcinoma with cyst of the thyroid. Harada T, et al. **J Surg Oncol** 1989 Oct;42(2):136–43

Traumatic pulmonary pseudocyst [letter; comment] Ribet M. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):171 Comment on: J Thorac Cardiovasc Surg 1989 Feb;97(2):309–12.

Spermatozoa-containing simple cysts of the rete testis. Yalowitz BR, et al. **J Urol** 1989 Dec;142(6):1572–3

Multiple cystic fibrohistiocytic tumors of the lung: report of two cases. Joseph MG, et al. **Mayo Clin Proc** 1990 Feb; 65(2):192–7

Hepatic cyst infection in autosomal dominant polycystic kidney disease [see comments] Telenti A, et al. **Mayo Clin Proc** 1990 Jul;65(7):933–42 (31 ref.) Comment in: Mayo Clin Proc 1990 Jul;65(7):1020–5.

Choroidal epithelial cyst in the cerebellopontine angle associated with trigeminal neuralgia—case report. Urasaki E, et al. **Neurol Med Chir (Tokyo)** 1989 May;29(5):424–8

Histopathology of cystic cavities in the cerebral white matter of HTX rats with inherited hydrocephalus. Yoshida Y, et al. **Neurol Med Chir (Tokyo)** 1990 Apr;30(4):229–33

Cystic medulloblastoma. Mahapatra AK, et al. **Neuroradiology** 1989;31(4):369–70

Histopathologic features of idiopathic macular holes and cysts. Guyer DR, et al. **Ophthalmology** 1990 Aug; 97(8):1045–51

Pathology of endometriosis. Clement PB. **Pathol Annu** 1990; 25 Pt 1:245–95 (310 ref.)

Tumors and cysts of the paratesticular region. Srigley JR, et al. **Pathol Annu** 1990;25 Pt 2:51–108 (305 ref.)

Spinal extradural arachnoid cyst. Stechison MT, et al. **Pediatr Neurosci** 1989;15(1):36–8

Sarcoma arising in pulmonary mesenchymal cystic hamartoma. Bove KE. **Pediatr Pathol** 1989;9(6):785–92

Cutaneous ciliated cyst: case report and literature review. Varma SK, et al. **Plast Reconstr Surg** 1990 Aug;86(2):344–6 (11 ref.)

Cystic swelling. Hood C. **Practitioner** 1989 Mar 8; 233(1464):331

Respiratory epithelial cyst in the cerebellopontine angle. Lee ST, et al. **Surg Neurol** 1989 Dec;32(6):418–20

An autopsy case of a cystic variant of thymic carcinoma mimicking a thymic cyst. Katoh Y, et al. **Virchows Arch [A]** 1990;417(1):85–7

Degenerative change of adipose tissue; the so-called membranous lipodystrophy [editorial] Machinami R. **Virchows Arch [A]** 1990;416(5):373–4

Solid-cystic tumour of the pancreas. An endocrine neoplasm? von Herbay A, et al. **Virchows Arch [A]** 1990;416(6):535–8

A case of tracheoesophageal cyst in the posterior mediastinum. Hyoung UJ, et al. **Yonsei Med J** 1989 Dec; 30(4):396–401

[Unusual cysts in the orofacial region] Liška K, et al. **Sb Lek** 1990 May;92(5):155–9 (Eng. Abstr.) **(Cze)**

[Malherbe's calcifying cyst. Apropos of an unusual case in the middle ear. Histopathogenic value] Bouton V, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(2):137–40 (Eng. Abstr.) **(Fre)**

[Gartner's duct cyst: apropos of a case] Trabelsi O, et al. **Tunis Med** 1990 May;68(5):377–80 (Eng. Abstr.) **(Fre)**

[Gardner syndrome with pilomatrixoma-like hair follicle cysts] Rütten A, et al. **Hautarzt** 1990 Jun;41(6):326–8 (Eng. Abstr.) **(Ger)**

[Compression pneumatocele of the lacrimal sac] Rochels R, et al. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):174–6 (Eng. Abstr.) **(Ger)**

[Localized peritoneal mesotheliomas. Report of a fibrous peritoneal mesothelioma (localized fibrous tumor) and 2 multicystic mesotheliomas] Katenkamp D, et al. **Pathologe** 1990 May;11(3):171–7 **(Ger)**

[CT-guided puncture biopsies of cystic processes in the cerebral and spinal areas] Molsen HP, et al. **Radiol Diagn (Berl)** 1989;30(3):300–6 (Eng. Abstr.) **(Ger)**

[Cystic mucinous neoplasms of the pancreas] Moroni M, et al. **Chir Ital** 1989 Aug–Dec;41(4–6):223–31 (Eng. Abstr.) **(Ita)**

[Cystic microglandular hyperplasia of the cervix uteri. Presentation of 2 clinical cases] Padovani G, et al. **Minerva Ginecol** 1989 Sep;41(9):475–8 (Eng. Abstr.) **(Ita)**

[A type IIa early carcinoma in multiple submucosal cysts of the stomach—a case report] Ohwada S, et al. **Gan No Rinsho** 1990 Aug;36(9):1019–24 (Eng. Abstr.) **(Jpn)**

[A superficial carcinoma arising from a solitary hepatic cyst] Takeyoshi I, et al. **Gan No Rinsho** 1990 Jan;36(1):91–6 (Eng. Abstr.) **(Jpn)**

[A case report of lung cancer with chest wall invasion arising from a bulla wall] Yamamoto K, et al. **Kyobu Geka** 1990 Mar;43(3):241–4 (Eng. Abstr.) **(Jpn)**

[Cyst formation of meningioma: report of two cases and review of literature] Ogane K, et al. **No Shinkei Geka** 1990 May;18(5):457–61 (Eng. Abstr.) **(Jpn)**

[Multicystic encephalomalacia in an adult—a case report] Sunada Y, et al. **Rinsho Shinkeigaku** 1989 Oct;29(10):1261–4 (Eng. Abstr.) **(Jpn)**

[A case of common bile duct cyst] Tkachenko VP, et al. **Klin Khir** 1989;(9):57 **(Rus)**

[Cyst of the parathyroid (letter)] García Pascual L, et al. **Med Clin (Barc)** 1990 Apr 7;94(13):518 **(Spa)**

PHYSIOPATHOLOGY

Spontaneous resolution of a nuchal fetal cystic hygroma

diagnosed early in the second trimester of pregnancy [letter] Meizner I, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):267–9

Ventral brain–stem compression from a subarachnoid ependymal cyst. Warf BC, et al. **Childs Nerv Syst** 1990 Jun;6(4):225–7

Luteal cysts and unexplained infertility: biochemical and ultrasonic evaluation. Hamilton MP, et al. **Fertil Steril** 1990 Jul;54(1):32–7

Functional similarities of hepatic cystic and biliary epithelium: studies of fluid constituents and in vivo secretion in response to secretin. Everson GT, et al. **Hepatology** 1990 Apr;11(4):557–65

Cystic glioma with positional oculogyric crisis [letter; comment] Stechison MT. **J Neurosurg** 1989 Dec; 71(6):955–7 Comment on: J Neurosurg 1988 Dec;69(6):951–3.

RADIOGRAPHY

Rathke's cleft cyst: computed tomographic scan and magnetic resonance imaging. Nakasu Y, et al. **Acta Neurochir (Wien)** 1990;103(3–4):99–104 (14 ref.)

Syringocele, a rare lesion of Cowper's gland. Van Brien P, et al. **Acta Urol Belg** 1990;58(1):145–51

Puncture porencephaly. Pathogenesis and prevention. Salmon JH. **Am J Dis Child** 1967 Jul;114(1):72–9

Recurrent cryptogenic hemoptysis associated with bronchial artery–pulmonary artery anastomoses and cystic lung disease. Panos RJ, et al. **Am J Med** 1989 Dec;87(6):683–6

Traumatic extradural spinal cyst [letter; comment] Alexander E Jr. **Br J Neurosurg** 1989;3(6):743–4 Comment on: Br J Neurosurg 1989;3(3):403–8.

Spontaneous disappearance of a single large cerebral cysticercus cyst [letter] Rajshekhar V, et al. **Br J Neurosurg** 1990;4(2):161–3

Differential diagnosis of supratentorial cystic intracranial lesions by CT–scanning. Verhagen IT, et al. **Br J Neurosurg** 1987;1(4):447–54

A real headache! [see comments] Jackson JE, et al. **Br J Radiol** 1989 Sep;62(741):867–8 Comment in: Br J Radiol 1990 Mar;63(747):229.

Giant sacral perineurial cyst. A case report. Stella L, et al. **Clin Neurol Neurosurg** 1989;91(4):343–6

New applications of old radiographic techniques applied to computed tomography. Gerzof SG, et al. **Comput Tomogr** 1977;1(4):331–8

A middle fossa arachnoid cyst in association with a suprasellar dermoid cyst. Chhang WH, et al. **Indian Pediatr** 1989 Aug;26(8):833–5

Cystic pelvic mass in a patient having recurrent carcinoma of the cervix. Eising EG, et al. **Invest Radiol** 1990 Feb; 25(2):205–8

A rare case of intraspinal ganglionic cyst. Silvello L, et al. **Ital J Orthop Traumatol** 1989 Sep;15(3):367–9

Spinal meningeal cyst. De Backer A, et al. **J Belge Radiol** 1989 Aug;72(4):283–7

Ganglionic cysts of the peroneal nerve at the knee: CT and surgical correlation. Gambari PI, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):801–3

Orbital cyst with pseudooptic nerve: CT features. Thach AB, et al. **J Comput Assist Tomogr** 1990 Jan–Feb;14(1):131–2

Nail retention cyst: a late complication of digital reconstruction using pedicle flaps. Penny I, et al. **J Hand Surg [Br]** 1989 Aug;14(3):345–6

Giant cyst–like lesions in rheumatoid arthritis. Maricic MJ, et al. **J Rheumatol** 1990 Apr;17(4):552–5

Single vaginal ectopic ureter via Gartner's duct cyst spontaneously perforating into the bladder. Watanabe K, et al. **J Urol** 1989 Oct;142(4):1044–6

Recurrent ventriculoperitoneal shunt pseudocyst in a nine–year–old girl. Baumgartner FJ, et al. **Klin Wochenschr** 1990 May 4;68(9):485–7

Endotheliomatous meningioma with coalescing microcysts, presenting as an hypodense lesion with ring enhancement on computed tomography. Roosen N, et al. **Neurochirurgia (Stuttg)** 1989 Sep;32(5):160–3

Occipital lobe ependymal cyst—case report. Takeuchi T, et al. **Neurol Med Chir (Tokyo)** 1989 May;29(5):417–23 (45 ref.)

Cystic acoustic neurinomas—report of two cases. Yamada S, et al. **Neurol Med Chir (Tokyo)** 1989 Sep;29(9):830–3 (17 ref.)

Computed tomography of a post traumatic spinal arachnoid cyst. Teruel Agustin JJ, et al. **Neuroradiology** 1989; 31(4):354–5

Radiologic case study. Lateral meniscal cyst. Bresler M, et al. **Orthopedics** 1990 Jun;13(6):667, 672–4

Ciliated hepatic foregut cyst: radiologic features. Kadoya M, et al. **Radiology** 1990 May;175(2):475–7

Postsurgical lumbar calcified extradural cyst. Report of a case. Shifrin LZ, et al. **Spine** 1990 Mar;15(3):229–31

Mammographic features of intracystic papillary lesions. Estabrook A, et al. **Surg Gynecol Obstet** 1990 Feb; 170(2):113–6

A giant stone in the müllerian duct cyst. Kim CJ, et al. **Urol Radiol** 1989;11(3):172–3

[Radiological study of lumbosacral nerve root sheath cyst (analysis of 65 cases)] Xiao KQ. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Oct;23(5):285–6 (Eng. Abstr.) (Chi)

[Cysts of the thoracic canal. Apropos of a subclavicular site] Arnault G, et al. **J Radiol** 1990 Jan;71(1):61–4 (11 ref.) (Eng. Abstr.) (Fre)

[A mullerian cyst as a space–occupying lesion of the bladder neck] Will CH, et al. **ROFO** 1990 Mar;152(3):350–1 (Ger)

[Computed tomographic diagnosis of postoperative maxillary cyst (POMC)—a comparison with conventional tomography] Kaneko K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Oct 25; 49(10):1236–42 (Eng. Abstr.) (Jpn)

[A case of cerebral cysticercosis: cyst growth is confirmed by CT scan during 6 years of follow–up] Terada K, et al. **No Shinkei Geka** 1990 Apr;18(4):391–5 (24 ref.) (Eng. Abstr.) (Jpn)

[Two cases of thymic cyst] Ryou Y, et al. **Rinsho Hoshasen** 1990 Jul;35(7):887–90 (Eng. Abstr.) (Jpn)

[Ruptured nonparasitic liver cyst caused by blunt abdominal trauma] Suzuki T, et al. **Rinsho Hoshasen** 1989 Aug; 34(8):905–8 (Eng. Abstr.) (Jpn)

[Transsphenoidal contrasting of hypophyseal adenomas and intrasellar cysts] Skriabin VV, et al. **Zh Vopr Neirokhir** 1989 Nov–Dec;(6):59–61 (Rus)

[Intracranial arachnoid cysts—incidence, clinical aspects and indications for surgery] Konjhodžić F, et al. **Med Arh** 1985; 39(2–3):61–4 (Eng. Abstr.) (Ser)

[A cyst of the seminal vesicle] Soler Fernández JM, et al. **Actas Urol Esp** 1989 Jul–Aug;13(4):288–91 (25 ref.) (Eng. Abstr.) (Spa)

[Presentation of adenosquamous carcinoma of the pancreas as splenic pseudocysts (letter)] Lorente JA, et al. **Rev Clin Esp** 1989 Nov;185(7):378 (Spa)

RADIONUCLIDE IMAGING

Technetium–99m DTPA renal transplant imaging in the diagnosis of urinoma [letter] Blue PW, et al. **Clin Nucl Med** 1990 Jul;15(7):525–6

Liver cysts associated with polycystic kidney disease: role of Tc–99m hepatobiliary imaging. Salam M, et al. **Clin Nucl Med** 1989 Nov;14(11):803–7

SURGERY

Leiomyoma of the small intestine with giant cyst formation. Case report. Ramakrishna B, et al. **Acta Chir Scand** 1990 Feb;156(2):173–4

Surgical techniques in the management of colloid cysts of the third ventricle. Symon L, et al. **Adv Tech Stand Neurosurg** 1990;17:121–57 (34 ref.)

Traumatic intracorneal cyst. Chan MY, et al. **Ann Ophthalmol** 1989 Aug;21(8):303–5

Treatment of highly symptomatic polycystic liver disease. Preliminary experience with a combined hepatic resection–fenestration procedure. Newman KD, et al. **Ann Surg** 1990 Jul;212(1):30–7

Cysts of the lateral meniscus: arthroscopy versus arthroscopy plus open cystectomy. Reagan WD, et al. **Arthroscopy** 1989; 5(4):274–81

Nonparasitic splenic cysts: a case report and review. Ehrlich P, et al. **Can J Surg** 1990 Aug;33(4):306–8 (27 ref.)

Slit ventricle syndrome after cyst–peritoneal shunting for the treatment of intracranial arachnoid cyst. Aoki N, et al. **Childs Nerv Syst** 1990 Jan;6(1):41–3

Intraoperative subdural hematoma in a patient with arachnoid cyst in the middle cranial fossa. Aoki N, et al. **Childs Nerv Syst** 1990 Jan;6(1):44–6

Unusual complication of peritoneal drainage: migration of a shunt in the subdural space [letter] Thauvoy C. **Childs Nerv Syst** 1989 Oct;5(5):279

Arthroscopic treatment of cysts of the menisci. A preliminary report. Parisien JS. **Clin Orthop** 1990 Aug;(257):154–8

Transvaginal ultrasonic needle guided aspiration of pelvic inflammatory cystic masses before ovulation induction for in vitro fertilization. Aboulghar MA, et al. **Fertil Steril** 1990 Feb;53(2):311–4

The ambulatory surgical management of Bartholin duct cysts. Downs MC, et al. **J Emerg Med** 1989 Nov–Dec;7(6):623–6

Mucous cyst of the distal interphalangeal joint: treatment by simple excision or excision and rotation flap. Crawford RJ, et al. **J Hand Surg [Br]** 1990 Feb;15(1):113–4

Symptomatic mucosal cysts of the maxillary sinus: antroscopic treatment. Fisher EW, et al. **J Laryngol Otol** 1989 Dec;103(12):1184–6

Surgical treatment of patients with midline arachnoid cysts. Lange M, et al. **Neurosurg Rev** 1990;13(1):35–9

Cerebral venous and sagittal sinus thrombosis after transcallosal removal of a colloid cyst of the third ventricle: case report. Garrido E, et al. **Neurosurgery** 1990 Mar; 26(3):540–2

Leptomeningeal cyst resulting from adulthood trauma: case report. Halliday AL, et al. **Neurosurgery** 1990 Jan; 26(1):150–3

Middle fossa arachnoid cyst eroding into the middle ear: case report. Haworth CS, et al. **Neurosurgery** 1990 Jan; 26(1):154–5

Symptomatic arachnoid cyst at the clivus drained stereotactically through the vertex. Iacono RP, et al. **Neurosurgery** 1990 Jul;27(1):130–3

Suprasellar arachnoid cysts: management by cyst wall resection. Jones RF, et al. **Neurosurgery** 1989 Oct; 25(4):554–61

Conjunctivochalasis: a surgical technique. Serrano F, et al. **Ophthalmic Surg** 1989 Dec;20(12):883–4

Stereotactic surgery in children. Pattisapu JV, et al. **Pediatr Neurosci** 1989;15(2):62–5

Stereotactic decompression of a prepontine arachnoid cyst with resolution of precocious puberty. Sweasey TA, et al. **Pediatr Neurosci** 1989;15(1):44–7

Transurethral, transprostatic incision of a seminal vesicle cyst. Case report. de Lichtenberg MH, et al. **Scand J Urol Nephrol** 1989;23(4):303–5

Intradural arachnoid cyst of the lumbar spine. Report of case surgically treated with full success. Lebkowski W, et al. **Zentralbl Neurochir** 1989;50(3–4):188–9

Cysto–atrial shunt treatment of intracranial arachnoid cysts. Radek A, et al. **Zentralbl Neurochir** 1989;50(3–4):176–9

[Splenic cysts in childhood] Mikhova M, et al. **Khirurgiia (Sofiia)** 1990;43(2):19–22 (Eng. Abstr.) (Bul)

[Retroperitoneal and mesenteric cysts] Vasilev N, et al. **Khirurgiia (Sofiia)** 1990;43(2):44–8 (Eng. Abstr.) (Bul)

[Polycystic liver. Is Lin's operation still justified?] Bensa P, et al. **Ann Chir** 1989;43(9):720–3 (Eng. Abstr.) (Fre)

[Cysts of the parathyroid glands. Apropos of 6 cases] Delaunay T, et al. **Ann Chir** 1990;44(3):231–5 (Eng. Abstr.) (Fre)

[Cystic adventitial disease of the popliteal artery] Soots G. **J Mal Vasc** 1990;15(2):179–81 (11 ref.) (Eng. Abstr.) (Fre)

[Current therapeutic approach toward adnexal cysts (letter)] Szekely Z, et al. **Rev Fr Gynecol Obstet** 1989 Jul–Sep; 84(7–9):613 (Fre)

[Malignant hemangioendothelioma of the spleen as an incidental finding of abdominal surgery] Fuchs M, et al. **Chirurg** 1990 Feb;61(2):134–6 (Ger)

[Splenic cysts: indications for surgery and surgical procedures] Wolters U, et al. **Langenbecks Arch Chir** 1990; 375(4):231–4 (Eng. Abstr.) (Ger)

[Acute progressive paralysis caused by intraneural ganglion—a neurosurgical emergency] Kern BC, et al. **Neurochirurgia (Stuttg)** 1990 May;33(3):81–4 (Eng. Abstr.) (Ger)

[The best treatment of Bartholin cysts and abscesses?] Schwarz R. **Zentralbl Gynakol** 1990;112(9):521–2 (Ger)

[Excision of a splenic cyst using a surgical stapler in partial splenectomy] Flautner L, et al. **Orv Hetil** 1990 Jun 24; 131(25):1363–5 (Eng. Abstr.) (Hun)

[Bullous emphysema of the lung (our experience)] Montresor E, et al. **Chir Ital** 1989 Aug–Dec;41(4–6):180–91 (31 ref.) (Eng. Abstr.) (Ita)

[Transurethral unroofing of the müllerian duct cyst: a case report] Fujimoto H, et al. **Hinyokika Kiyo** 1989 Nov; 35(11):1955–9 (22 ref.) (Eng. Abstr.) (Jpn)

[A case of reexpansion pulmonary edema during fenestration of a giant hepatic cyst] Fukuda T, et al. **Masui** 1989 Nov; 38(11):1509–13 (Eng. Abstr.) (Jpn)

[Surgical treatment of a case of multiple lung cysts infected with aspergillosis] Saitoh T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Jul;27(7):855–9 (Eng. Abstr.) (Jpn)

[Treatment for Bartholin's duct abscesses and cysts by marsupialization using the CO2 laser] Takizawa K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Apr;42(4):381–4 (Jpn)

[Surgical treatment of intracranial arachnoid cysts] Bidziński J, et al. **Neurol Neurochir Pol** 1989 Jul–Dec;23(4–6):322–31 (Eng. Abstr.) (Pol)

[Splenectomy using a suturing apparatus] Bulgakov GA. **Khirurgiia (Mosk)** 1990 May;(5):147–8 (Rus)

[Repeat surgery in focal lesions of the liver] Nikhinson RA, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):34–8 (Eng. Abstr.) (Rus)

[Co2 laser treatment of epithelial passages and cysts of the coccyx] Skobelkin OK, et al. **Khirurgiia (Mosk)** 1989 Dec; (12):85–8 (Eng. Abstr.) (Rus)

[Diagnosis and surgical treatment of common bile duct cysts in children] Krivchenia DIu, et al. **Klin Khir** 1990;(6):10–2 (Eng. Abstr.) (Rus)

[Surgical treatment of ganglion in children] Nurmaganbetov TK, et al. **Klin Khir** 1990;(6):64 (Rus)

[The treatment of chalazion by cryogenic action] Fal'bush OA. **Oftalmol Zh** 1989;(6):360–1 (Eng. Abstr.) (Rus)

[Endoscopy surgery of utriculocele] Rodríguez JV, et al. **Arch Esp Urol** 1990 Apr;43(3):279–83 (Eng. Abstr.) (Spa)

THERAPY

Tetracycline sclerotherapy of hydroceles and epididymal cysts. Long–term results. Honnens de Lichtenberg M, et al. **Acta Chir Scand** 1990 Jun–Jul;156(6–7):439–40

Liver transplantation for polycystic liver disease. Starzl TE, et al. **Arch Surg** 1990 May;125(5):575–7

Detection and management of pathological, non–palpable, cystic adnexal masses. Anderson RE, et al. **Hum Reprod** 1990 Apr;5(3):279–81

New technique for treating pseudocyst of the auricle. Zhu LX, et al. **J Laryngol Otol** 1990 Jan;104(1):31–2

Surveillance strategy for intratesticular cysts: preliminary report. Kratzik C, et al. **J Urol** 1990 Feb;143(2):313–5

[Treatment of colloid cysts of the third ventricle by cerebrospinal fluid shunt] Hattab N, et al. **Neurochirurgie** 1990;36(2):129–31 (Eng. Abstr.) (Fre)

[Colloid cysts of the third cerebral ventricle. Computed x–ray tomography, MRI and stereotaxic puncture. Apropos of 9 cases] Peragut JC, et al. **Neurochirurgie** 1990;36(2):122–8 (Eng. Abstr.) (Fre)

[Systemic action of alcohol following sclerosis of hepatic cysts] Zynamon A, et al. **ROFO** 1989 Oct;151(4):500–1 **(Ger)**

[A case of nonsurgical treatment of a thyroid cyst] Filatov AA, et al. **Vestn Rentgenol Radiol** 1990 Jan–Feb;(1):86–7 **(Rus)**

[Solitary hepatic cysts—a therapeutic problem] Cerný J, et al. **Rozhl Chir** 1990 Feb;69(2):99–102 (Eng. Abstr.) **(Slo)**

ULTRASTRUCTURE

Meningioma with extensive vacuolization—a contribution to the pathogenesis of intratumoral cyst formation. Orita T, et al. **Clin Neuropathol** 1989 Nov–Dec;8(6):301–6

[Toxoplasma gondii: ultrastructural study of cystic formations observed in human fibroblast culture] Dardé ML, et al. **Ann Parasitol Hum Comp** 1989;64(6):403–11 (Eng. Abstr.) **(Fre)**

VETERINARY

Congenital extra-hepatic biliary cyst in a Congo African Grey Parrot (Psittacus erithacus erithacus). Opengart KN, et al. **Avian Dis** 1990 Apr–Jun;34(2):497–500

Bilateral congenital cysts in the frontal sinuses of a horse. Beard WL, et al. **J Am Vet Med Assoc** 1990 Feb 1; 196(3):453–4

The dilated pore of Winer—an overlooked cutaneous lesion of cats. Luther PB, et al. **J Comp Pathol** 1989 Nov; 101(4):375–9

Retinal cysts in the eye of the Asian musk shrew, Suncus murinus, (Mammalia, Insectivora). Sprando RL, et al. **J Comp Pathol** 1990 Feb;102(2):245–8

Multiple feather follicle cysts in a wild turkey. Couvillion CE, et al. **J Wildl Dis** 1990 Jan;26(1):122–4

Cystic dilatation of the vaginal fornix in aged female Crj:F344/Du rats. Yoshitomi K. **Vet Pathol** 1990 Jul; 27(4):282–4

Developmental cysts in the upper neck of Anglo–Nubian goats. Brown PJ, et al. **Vet Rec** 1989 Sep 2;125(10):256–8

CYSTS, HYDATID see **ECHINOCOCCOSIS**

CYTARABINE

Hairpin structures in DNA containing arabinofuranosylcytosine. A combination of nuclear magnetic resonance and molecular dynamics. Pieters JM, et al. **Biochemistry** 1990 Jan 23;29(3):788–99

Conformational consequences of the incorporation of arabinofuranosylcytidine in DNA. An NMR study of the DNA fragments d(CGCTAGCG) and d(CGaCTAGCG) in solution. Pieters JM, et al. **Eur J Biochem** 1989 Sep 15; 184(2):415–25

ADMINISTRATION & DOSAGE

Sequential intermediate-dose cytosine arabinoside and mitoxantrone for patients with relapsed and refractory acute myelocytic leukemia. Paciucci PA, et al. **Am J Hematol** 1990 Sep;35(1):22–5

Low-dose cytosine arabinoside in relapsed acute lymphocytic leukemia. Amara F, et al. **Am J Med** 1990 Jan;88(1):82–3

Mechanisms of delivery of liposome-encapsulated cytosine arabinoside to CV-1 cells in vitro. Fluorescence-microscopic and cytotoxicity studies. Brown PM, et al. **Biochim Biophys Acta** 1990 Apr 30; 1023(3):341–51

Cell kinetics after high dose cytosine arabinoside in patients with acute myelocytic leukemia. Colly LP, et al. **Blut** 1990 Feb;60(2):76–80

Low-dose Ara-C in the treatment of myelodysplastic syndromes. Bogdanić V, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 3:26–7

Low-dose Ara-C plus granulocyte/macrophage colony-stimulating factor for the treatment of myelodysplastic syndromes. EORTC Leukemia Group. Gerhartz HH, et al. **Bone Marrow Transplant** 1989 Dec; 4 Suppl 3:36–7

Evaluation of low-dose cytarabine therapy in myelodysplastic syndromes. el Mangoush M, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 3:100

High dose cytosine arabinoside in the treatment of adult acute myelogenous leukaemia. Nemet D, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 3:42–4 (39 ref.)

High-dose cytosine arabinoside, total body irradiation and marrow transplantation for advanced malignant lymphoma. Petersen FB, et al. **Bone Marrow Transplant** 1989 Sep; 4(5):483–8

Mitoxantrone and high-dose cytosine arabinoside for the treatment of refractory acute lymphocytic leukemia. Kantarjian HM, et al. **Cancer** 1990 Jan 1;65(1):5–8

High-dose cytosine arabinoside in relapsed and refractory non-Hodgkin's lymphoma. Limited role as a single agent. Soiffer RJ, et al. **Cancer** 1989 Nov 15;64(10):2014–8

A phase II trial of high-dose cytarabine and cisplatin in previously untreated non-small cell carcinoma of the lung. A Piedmont Oncology Association Study. White DR, et al. **Cancer** 1990 Apr 15;65(8):1700–3

Extremely prolonged continuous intraperitoneal infusion of cytosine arabinoside. Kirmani S, et al. **Cancer Chemother Pharmacol** 1990;25(6):454–8

Transient focal leukoencephalopathy following intraventricular methotrexate and cytarabine. A complication of the Ommaya reservoir: case report and review of the literature. Colamaria V, et al. **Childs Nerv Syst** 1990 Jun;6(4):231–5 (19 ref.)

Low dose cytosine-arabinoside has only minimal differentiation inducing capacity in HL60 cells. Ossenkoppele GJ, et al. **Eur J Cancer Clin Oncol** 1989 Nov; 25(11):1561–9

Idarubicin in combination with intermediate-dose cytarabine in the treatment of refractory or relapsed acute leukemias. Carella AM, et al. **Eur J Haematol** 1989 Oct;43(4):309–13

Effect of interleukin 3 on cytosine arabinoside-mediated cytotoxicity of leukemic myeloblasts. Brach M, et al. **Exp Hematol** 1990 Aug;18(7):748–53

High dose ARA-C as induction therapy of acute myeloid leukaemia. Minigo H, et al. **Folia Haematol (Leipz)** 1990; 117(1):135–40

Intraperitoneal cytosine arabinoside administered in sequence with systemic cisplatin, doxorubicin, and cyclophosphamide in advanced ovarian cancer. Campora E, et al. **Gynecol Oncol** 1990 Apr;37(1):39–43

Low-dose Ara-C as maintenance treatment in AML [letter] Catalano L, et al. **Haematologica (Pavia)** 1989 Jul–Aug; 74(4):412–3

Consolidation therapy with high-dose cytosine arabinoside: experiences of a prospective study in acute myeloid leukemia. Kurrle E, et al. **Hamatol Bluttransfus** 1990; 33:254–60

High-dose Ara-C as a single-agent consolidation therapy in childhood acute myelogenous leukemia. Lie SO, et al. **Hamatol Bluttransfus** 1990;33:215–21

Triple combination of retinoic acid + low concentration of cytosine arabinoside + hexamethylene bisacetamide induces differentiation of human AML blasts in primary culture. Hassan HT, et al. **Hematol Oncol** 1989 Nov–Dec; 7(6):429–40

Phase II study of carboplatin and cytosine arabinoside in patients with disseminated malignant melanoma. Mulder NH, et al. **J Cancer Res Clin Oncol** 1990;116(3):301–2

Hyperthermia and temperature-sensitive liposomes: selective delivery of drugs into the eye. Khoobehi B, et al. **Jpn J Ophthalmol** 1989;33(4):405–12

Assessment of laser-induced release of drugs from liposomes: an in vitro study. Khoobehi B, et al. **Lasers Surg Med** 1990; 10(1):60–5

Continuous intravenous administration of daunorubicin and cytarabine for remission induction of poor risk acute myelogenous leukaemias and myelodysplastic syndromes. Bär BM, et al. **Neth J Med** 1990 Feb;36(1–2):19–24

Standard induction and low dose ara-C treatment in patients over 60 with AML or MDS. van Geel BM, et al. **Neth J Med** 1989 Oct;35(3–4):128–36

Recombinant human granulocyte-macrophage colony-stimulating factor and low-dose cytosine-arabinoside in the treatment of patients with myelodysplastic syndromes. A phase II study. Höffken K, et al. **Onkologie** 1990 Feb;13(1):33–7

[Low-dose cytosine arabinoside in treatment of 17 patients with acute nonlymphocytic leukemia] Hu HZ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):103–6 (Eng. Abstr.) **(Chi)**

[Intensive post-remission therapy of acute myeloid leukemia with high doses of cytosine arabinoside] Slechtová J, et al. **Cas Lek Cesk** 1989 Sep 22;128(39):1239–42 (Eng. Abstr.) **(Cze)**

[Treatment of myelodysplastic syndrome using continual subcutaneous infusion of low doses of cytosine arabinoside] Vozobulová V, et al. **Vnitr Lek** 1990 May;36(5):483–8 (Eng. Abstr.) **(Cze)**

[Acute myeloid leukemia with poor prognosis: treatment with oral 4-demethoxydaunorubicin (idarubicin) and low-dose cytarabine via subcutaneous route] Helg C, et al. **Schweiz Med Wochenschr** 1990 Apr 14;120(15):548–52 (Eng. Abstr.) **(Fre)**

[Intravesical instillation chemotherapy of anticancer agents including cylocide: studies of prophylactic effects on the recurrence] Yasumoto R, et al. **Hinyokika Kiyo** 1990 Apr; 36(4):407–13 (Eng. Abstr.) **(Jpn)**

[Effects of low dose Ara-C regimen in acute leukemias and RAEB] Kohno T, et al. **Rinsho Ketsueki** 1989 May; 30(5):638–43 (Eng. Abstr.) **(Jpn)**

[Comparison among three preconditioning regimens for allogeneic bone marrow transplantation in hematological malignancies] Minami S, et al. **Rinsho Ketsueki** 1990 May; 31(5):572–6 (Eng. Abstr.) **(Jpn)**

[Studies on the relationship between therapeutic schedule and antitumor effect of etoposide and cytosine arabinoside in murine L1210 leukemia] Ooi K, et al. **Yakugaku Zasshi** 1989 Nov;109(11):865–8 (Eng. Abstr.) **(Jpn)**

[The successful treatment of partial red-cell aplasia of the bone marrow with low doses of cytosar and chlorbutin] Pivnik AV, et al. **Ter Arkh** 1989;61(7):143–5 **(Rus)**

ADVERSE EFFECTS

Gastrointestinal complications of cytosine-arabinoside chemotherapy: findings on plain abdominal radiographs. Tjon A Tham RT, et al. **AJR Am J Roentgenol** 1990 Jan; 154(1):95–8

Management of febrile episodes during neutropenia caused by chemotherapy [clinical conference] Rolston KV. **Am J Clin Oncol** 1990 Apr;13(2):171–4

Horner's syndrome and demyelinating peripheral neuropathy caused by high-dose cytosine arabinoside. Nevill TJ, et al. **Am J Hematol** 1989 Dec;32(4):314–5

Memory and learning sequelae in long-term survivors of acute lymphoblastic leukemia: association with attention deficits. Brouwers P, et al. **Am J Pediatr Hematol Oncol** 1990 Summer;12(2):174–81

Hypersensitivity reaction to high-dose cytarabine. Williams SF, et al. **Br J Haematol** 1989 Oct;73(2):274–5

Fatal pulmonary failure complicating high-dose cytosine arabinoside therapy in acute leukemia. Andersson BS, et al. **Cancer** 1990 Mar 1;65(5):1079–84

Erythema and swelling of ears after treatment with cytarabine for leukemia [letter] Krulder JW, et al. **Eur J Cancer** 1990;26(5):649–50

Respiratory failure elicited by streptococcal septicaemia in patients treated with cytosine arabinoside [letter] Guiot HF, et al. **Eur J Haematol** 1990 Apr;44(4):267–8

Respiratory failure elicited by streptococcal septicaemia in patients treated with cytosine arabinoside, and its prevention by penicillin. Guiot HF, et al. **Infection** 1990 May–Jun;18(3):131–7

Physicians warned of high-dose cytarabine [news] Mahaney FX Jr. **J Natl Cancer Inst** 1990 Feb 21;82(4):259–61

Jaundice and hepatorenal syndrome associated with cytosine arabinoside. Kirtley DW, et al. **J Natl Med Assoc** 1990 Mar;82(3):209, 213, 217–8

Cumulative bone marrow stromal damage caused by X-irradiation and cytosine-arabinoside in leukemic mice. Ben-Ishay Z, et al. **Med Oncol Tumor Pharmacother** 1990; 7(1):55–9

[Corneal toxicity of cytarabine. Apropos of a case] Bursztyn J, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):229–30 (Eng. Abstr.) **(Fre)**

[Painful legs and moving toes. Neuropathy caused by cytarabine] Malapert D, et al. **Rev Neurol (Paris)** 1989; 145(12):869–71 (14 ref.) (Eng. Abstr.) **(Fre)**

[Ventricular fibrillation in a patient with myelodysplastic syndrome treated with small doses of cytarabine] Drzewoski J, et al. **Kardiol Pol** 1989;32(4):225–8 (Eng. Abstr.) **(Pol)**

[Prevention of infection in patients undergoing bone marrow transplantation or chemotherapy: various aspects] Guiot HF, et al. **Antibiot Khimioter** 1990 Apr;35(4):45–9 **(Rus)**

ANALOGS & DERIVATIVES

Intracellular pharmacokinetics of N4-behenoyl-1-beta-D-arabinofuranosylcytosine. Higashigawa M, et al. **Adv Exp Med Biol** 1989;253B:341–8

Inhibitory effects of 2'-fluorinated arabinosyl-pyrimidine nucleosides on woodchuck hepatitis virus replication in chronically infected woodchucks. Fourel I, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):473–5

Aspects of salivary gland radiosensitivity: effects of sialagogues and irradiation. Norberg LE, et al. **Arch Otorhinolaryngol** 1989;246(4):200–4

Comparative studies of the preparation of immunoliposomes with the use of two bifunctional coupling agents and investigation of in vitro immunoliposome-target cell binding by cytofluorometry and electron microscopy. Schwendener RA, et al. **Biochim Biophys Acta** 1990 Jul 9;1026(1):69–79

Diaziquone and 2,2'-anhydro-arabinosyl-5-fluorocytosine for the treatment of children with relapsed or refractory acute nonlymphoblastic leukemia. Meyers PA, et al. **Cancer** 1989 Dec 15;64(12):2416–9

Clinical pharmacology of N4-palmitoyl-1-beta-D-arabinofuranosylcytosine in patients with hematologic malignancies. Ueda T, et al. **Cancer Chemother Pharmacol** 1989;24(6):371–5

Formulation, stability, and antitumor activity of 1-beta-D-arabinofuranosylcytosine conjugate of thioether phospholipid. Hong CI, et al. **Cancer Res** 1990 Jul 15; 50(14):4401–6

Nucleoside conjugates. 11. Synthesis and antitumor activity of 1-beta-D-arabinofuranosylcytosine and cytidine conjugates of thioether lipids. Hong CI, et al. **J Med Chem** 1990 May;33(5):1380–6

Antiviral effect of antileukemic drugs N4-behenoyl-1-beta-D-arabinofuranosylcytosine (BH-AC) and 2,2'-anhydro-1-beta-D-arabinofuranosylcytosine (cyclo-C) against human cytomegalovirus. Nakamura K, et al. **J Med Virol** 1990 Jun;31(2):141–7

Comparison of some biochemical parameters of arabinosylcytosine and cyclocytidine in L1210 murine leukemia cells. Novotný L, et al. **Neoplasma** 1990; 37(1):13–22

Synthesis and biological evaluation of some phosphate triester derivatives of the anti-cancer drug araC [published erratum appears in Nucleic Acids Res 1989 Nov 25;17(22):7200] Jones BC, et al. **Nucleic Acids Res** 1989 Sep 25; 17(18):7195–201

ANALYSIS

Determination of 3H-labelled cytosine arabinoside and eight metabolites in cell extracts by high-performance liquid chromatography and scintillation spectrometry. Wang LM, et al. **J Chromatogr** 1989 Jul 21;491(2):331–40

ANTAGONISTS & INHIBITORS

Chemotherapy of L1210 and L1210/ARA-C leukemia with

5-aza-2'-deoxycytidine and 3-deazauridine. Momparler RL, et al. **Cancer Chemother Pharmacol** 1989;25(1):51-4

CEREBROSPINAL FLUID

Pharmacokinetics of cytosine arabinoside in cerebrospinal fluid and of its metabolite in leukemic cells. Békássy AN, et al. **Med Pediatr Oncol** 1990;18(2):136-42

METABOLISM

Ara-CTP metabolism following hydroxyurea or methotrexate treatment in human leukemia cell lines. Kubota M, et al. **Adv Exp Med Biol** 1989;253B:363-7

Interaction of arabinosyl nucleotides in K562 human leukemia cells. Gandhi V, et al. **Biochem Pharmacol** 1989 Oct 15; 38(20):3551-8

Regulation of the cytidine phospholipid pathways in human cancer cells and effects of 1-beta-D-arabinofuranosylcytosine: a noninvasive 31P nuclear magnetic resonance study. Daly PF, et al. **Cancer Res** 1990 Feb 1;50(3):552-7

PHARMACOKINETICS

Characterization of nucleoside transport during leukemic cell differentiation. Takimoto T, et al. **Adv Exp Med Biol** 1989; 253B:517-23

The disposition of cytosine arabinoside and its metabolite after single doses to rabbits. Zimmerman CL. **Biopharm Drug Dispos** 1990 Mar;11(2):121-9

Modulation of arabinosylcytosine metabolism by arabinosyl-2-fluoroadenine in lymphocytes from patients with chronic lymphocytic leukemia: implications for combination therapy. Gandhi V, et al. **Blood** 1989 Nov 1;74(6):2070-5

Enhanced retention of cytosine arabinoside and its metabolites and synergistic cytotoxicity by sequential treatment with dipyridamole in L5178Y leukemia. Yang JL, et al. **Cancer Chemother Pharmacol** 1990;26(2):135-8

Pharmacologically directed design of leukemia therapy. Plunkett W, et al. **Hematol Bluttransfus** 1990;33:610-3 (14 ref.)

High-performance liquid chromatographic assay for cytosine arabinoside and uracil arabinoside in cerebrospinal fluid and plasma. Riccardi A, et al. **J Chromatogr** 1989 Dec 29; 497:302-7

Intraocular penetration of cytosine arabinoside following subconjunctival administration in primates. Graham ML, et al. **J Ocul Pharmacol** 1989 Fall;5(3):255-9

Effects of rhGM-CSF on intracellular ara-C pharmacology in vitro in acute myelocytic leukemia: comparability with drug-induced humoral stimulatory activity. Karp JE, et al. **Leukemia** 1990 Aug;4(8):553-6

PHARMACOLOGY

Comparative effects of busulfan, cytosine arabinoside and adriamycin on different maturation stages of normal human bone marrow cells. Tohda S, et al. **Acta Haematol (Basel)** 1990;83(1):16-21

Effects of cytosine arabinoside and hydroxyurea on the synthesis of deoxyribonucleotides and DNA replication in L1210 cells. Matsumoto M, et al. **Adv Enzyme Regul** 1990; 30:47-59

Relationship between intracellular dCTP/ara-CTP ratio and cytotoxic effect of ara-C. Kawasaki H, et al. **Adv Exp Med Biol** 1989;253B:369-74

Synergistic interaction between etoposide and 1-beta-D-arabinofuranosylcytosine. Ohkubo T, et al. **Adv Exp Med Biol** 1989;253B:355-62

Sequential combination of methotrexate and 1-beta-D-arabinofuranosylcytosine shows synergistic effect on the generation of DNA strand breaks in a human promyelocytic leukemia cell line. Tanizawa A, et al. **Adv Exp Med Biol** 1989;253B:349-54

Flow cytometric determination with bromodeoxyuridine/DNA assay of sensitivity of S-phase cells to cytosine arabinoside in childhood acute lymphoblastic leukemia. Katano N, et al. **Am J Pediatr Hematol Oncol** 1989 Winter;11(4):411-6

The effects of cytosine arabinoside and GM-CSF in leukemic cells in vitro. Gao XZ, et al. **Anticancer Res** 1989 Jul-Aug; 9(4):1053-5

New combination of 5-fluorouracil and interferon-gamma effective against human myeloid leukemia in vitro. Kafka M, et al. **Anticancer Res** 1989 Jul-Aug;9(4):1037-40

Metronidazole enhances the cytotoxic synergism produced by the combination of 1-beta-arabinofuranosylcytosine and cis-diamminedichloroplatinum. Trujillo JM, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1751-6

Effects of antimetabolites on adenovirus replication in sensitive and resistant human melanoma cell lines. Musk P, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):631-7

On the induction of fetal hemoglobin by butyrates: in vivo and in vitro studies with sodium butyrate and comparison of combination treatments with 5-AzaC and AraC. Constantoulakis P, et al. **Blood** 1989 Nov 1;74(6):1963-71

Myelination of axons within cytosine arabinoside treated mouse cerebellar explants by cultured rat oligodendrocytes. Seil FJ, et al. **Brain Res** 1989 Nov 27;503(1):111-7

The effect of ara-C-induced inhibition of DNA synthesis on its cellular pharmacology. Wang LM, et al. **Cancer Chemother Pharmacol** 1990;25(6):418-24

Application of a new approach for the quantitation of drug synergism to the combination of cis-diamminedichloroplatinum and 1-beta-D-arabinofuranosylcytosine. Greco WR, et al. **Cancer Res** 1990 Sep 1;50(17):5318-27

Effects of 1-beta-D-arabinofuranosylcytosine on DNA replication intermediates monitored by pH-step alkaline elution. Ross DD, et al. **Cancer Res** 1990 May 1; 50(9):2658-66

Elevation of dCTP pools in xeroderma pigmentosum variant human fibroblasts alters the effects of DNA repair arrest by arabinofuranosyl cytosine. Dunn WC, et al. **Cell Biol Toxicol** 1985 Jan;1(2):75-86

A comparison of the effects of cytosine arabinoside and beta-lactams on DNA synthesis and cellular proliferation. Fram RJ. **Cell Biol Toxicol** 1986 Dec;2(4):531-9 (56 ref.)

Synthesis of a 60 kD nuclear DNA binding protein induced by cytosine arabinoside in the HL 60 leukemic cell line. Ravazzolo R, et al. **Eur J Haematol** 1990 Mar;44(3):150-3

Thyroid hormones induce hemopoietic pluripotent stem cell differentiation toward erythropoiesis through the production of pluripoietin-like factors. Sainteny F, et al. **Exp Cell Res** 1990 Mar;187(1):174-6

The effect of a prolonged in vitro exposure to 1-beta-D arabinofuranosylcytosine and deoxycytidine on the survival of normal (CFU-GM) and leukemic (L-CFU) human myeloid progenitor cells in suspension culture. Grant S, et al. **Exp Hematol** 1990 Jan;18(1):41-8

Colony-stimulating factors (rhG-CSF, rhGM-CSF, rhIL-3, and BCGF) recruit myeloblastic and lymphoblastic leukemic cells and enhance the cytotoxic effects of cytosine-arabinoside. Andreeff M, et al. **Hematol Bluttransfus** 1990;33:747-62

Synergistic cytotoxicity of cytosine arabinoside and mitoxantrone for K562 and CFU-GM. Krehmeier C, et al. **Hematol Bluttransfus** 1990;33:129-32

Cytosine arabinoside plus hemin treatment of a human erythroid cell line, KMOE, strongly induces embryonic, fetal, and adult beta-like globin genes. Stoeckert CJ Jr, et al. **Hemoglobin** 1989;13(6):605-17

Cytosine arabinoside kills postmitotic neurons in a fashion resembling trophic factor deprivation: evidence that a deoxycytidine-dependent process may be required for nerve growth factor signal transduction. Martin DP, et al. **J Neurosci** 1990 Jan;10(1):184-93

Effects of retinoic acid, 1,25-dihydroxyvitamin D3, cytosine arabinoside and alpha-interferon on bone marrow cells from patients with myelodysplastic syndromes. Hellström E, et al. **Leuk Res** 1989;13(12):1113-21

Cytosine arabinoside does not cause differentiation in vitro of CFU-GM in marrow from normal, myelodysplastic or ANLL subjects. Smith MA, et al. **Leuk Res** 1990; 14(2):185-93

Hemoglobin induction by Ara-C in human erythroleukemic cells (K562) is cell-cycle dependent. Wanda PE, et al. **Leuk Res** 1989;13(8):683-8

Synergistic effect of recombinant human leukemia inhibitory factor (LIF) and 1-beta-D-arabinofuranosylcytosine (Ara-C) on proto-oncogene expression and induction of differentiation in human U 937 cells. Brach MA, et al. **Leukemia** 1990 Sep;4(9):646-9

Interaction between retinoic acid and cytosine arabinoside affecting the blast cells of acute myeloblastic leukemia. Lishner M, et al. **Leukemia** 1989 Nov;3(11):784-8

Low concentrations of cytosine arabinoside, 6-thioguanine, actinomycin-D and aclacinomycin A stimulates the differentiation of normal human marrow myeloid progenitor cells. Hassan HT, et al. **Med Oncol Tumor Pharmacother** 1989;6(3):213-7

Modulation of the effect of 1-beta-D-arabinofuranosylcytosine based on changes of cytidine deaminase activity in HL60 cells. Mejer JN, et al. **Med Oncol Tumor Pharmacother** 1990;7(1):25-9

Study of differentiation of fresh human leukemic cells by low dose cytosine arabinoside (LD Ara-C) and 12-O-tetradecanoylphorbol-13-acetate (TPA). Kuliczkowski K, et al. **Neoplasma** 1989;36(5):589-97

Comparison of some biochemical parameters of arabinosylcytosine and cyclocytidine in L1210 murine leukemia cells. Novotný L, et al. **Neoplasma** 1990; 37(1):13-22

Effect of cytosine arabinoside on rat cerebral explants: fibroblasts and reactive microglial cells as the primary cellular barrier to neurite growth. Oorschot DE, et al. **Neurosci Lett** 1989 Jul 31;102(2-3):332-6

[Leukemic clonogenic assay and drug sensitivity test of homoharringtonine and cytarabine in acute myeloid leukemia] Ma FS, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec;28(12):737-40, 769 (Eng. Abstr.) **(Chi)**

[Cytarabine and mitomycin C as inactivators in lymphocyte mixed culture] Gebhardt B. **Pharmazie** 1989 Dec; 44(12):852-4 (Eng. Abstr.) **(Ger)**

[Relationship between Ara-C sensitivity of leukemic-colony forming units (L-CFU) and [3H] deoxycytidine suicide test of L-CFU] Umeda M, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 May;52(3):618-22 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Treatment of acute promyelocytic leukemia [letter] Arlin ZA, et al. **Blood** 1989 Oct;74(5):1858

Treatment of poor-prognosis, newly diagnosed acute myeloid leukemia with ara-C and recombinant human granulocyte-macrophage colony-stimulating factor. Estey EH, et al. **Blood** 1990 May 1;75(9):1766-9

High-dose chemotherapy and autologous bone marrow transplantation in acute myeloid leukemia. McMillan AK, et al. **Blood** 1990 Aug 1;76(3):480-8

The role of low-dose cytosine arabinoside and aggressive chemotherapy in advanced myelodysplastic syndromes. Aul C, et al. **Cancer** 1989 Nov 1;64(9):1812-8

High-dose cytosine arabinoside and L-asparaginase therapy for poor-risk adult acute nonlymphocytic leukemia. A retrospective study. Evans C, et al. **Cancer** 1990 Jun 15; 65(12):2624-30

The role of timing of high-dose cytosine arabinoside intensification and of maintenance therapy in the treatment of children with acute nonlymphocytic leukemia. Woods WG, et al. **Cancer** 1990 Sep 15;66(6):1106-13

Serum immunoreactive erythropoietin in children with acute leukaemia at various stages of disease--and the effects of treatment. Hellebostad M, et al. **Eur J Haematol** 1990 Mar; 44(3):159-64

Aggressive polychemotherapy for acute myelofibrosis. Hertenstein B, et al. **Eur J Haematol** 1990 Apr;44(4):213-9

High-dose cytosine arabinoside and mitoxantrone in previously-treated acute leukemia patients. Lejeune C, et al. **Eur J Haematol** 1990 Apr;44(4):240-3

Successful chemotherapy for acute myeloid leucaemia in HIV-infected patients. Wijermans PW, et al. **Eur J Haematol** 1990 Feb;44(2):136-8

Myelodysplastic syndromes: analysis of 51 cases. Therapy with low doses of arabinosyl cytosine of leukaemic transformation. Candido A, et al. **Folia Haematol (Leipz)** 1990;117(1):95-104

Treatment of poor-prognosis, newly diagnosed acute myelogenous leukemia with high-dose cytosine arabinoside (Ara-C) and rHUGM-CSF. Estey EH, et al. **Hematol Bluttransfus** 1990;33:732-6

Effect of treatment with rhGM-CSF and low-dose cytosine arabinoside on leukemic blast cells in patients with myelodysplastic syndromes. Hoelzer D, et al. **Hematol Bluttransfus** 1990;33:763-9

Low-dose cytarabine versus intensive chemotherapy in the treatment of acute nonlymphocytic leukemia in the elderly. Tilly H, et al. **J Clin Oncol** 1990 Feb;8(2):272-9

Progressive multifocal leukoencephalopathy-remission with cytarabine. O'Riordan T, et al. **J Infect** 1990 Jan;20(1):51-4

Efficient formation of cytosine arabinoside-5'-triphosphate in leukemic blasts of human T-cell acute lymphoblastic leukemia. Tanaka M, et al. **Leuk Res** 1989;13(10):931-6

Cellular ara-CTP pharmacokinetics, response, and karyotype in newly diagnosed acute myelogenous leukemia. Estey EH, et al. **Leukemia** 1990 Feb;4(2):95-9

Cytogenetics are a predictive factor of response to low dose Ara-C in acute myelogenous leukemia (AML) in the elderly [letter] Fenaux P, et al. **Leukemia** 1990 Apr;4(4):312

Chemotherapy for acute non-lymphocytic leukemia with low-dose cytosine arabinoside (Ara-C). Lin SF, et al. **Nippon Ketsueki Gakkai Zasshi** 1990 Feb;53(1):45-50

Low-dose arabinosyl cytosine therapy of AML may be effective after failure of high or conventional doses. Tertian G, et al. **Nouv Rev Fr Hematol** 1989;31(4):311-3

Alpha-streptococcal septicemia in leukemic children treated with continuous or large dosage intermittent cytosine arabinoside. Sotiropoulos SV, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):755-8

[Effects of recombinant human granulocyte colony stimulating factor following high-dose cytosine arabinoside therapy in children with malignancy] Osugi Y, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1379-82 **(Jpn)**

[Clinical effect and pharmacokinetics of intermediate dose Ara-C therapy in a patient with acute non-lymphocytic leukemia with two CNS recurrences] Fukushima T, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Jan 20;25(1):126-31 (Eng. Abstr.) **(Jpn)**

[Experimental studies of the inhibition of collagenase activity in the cornea] Toczołowski J. **Klin Oczna** 1988 Dec; 90(12):405-6 (Eng. Abstr.) **(Pol)**

TOXICITY

Reduction of ara-C cytotoxicity in HL 60 cells by addition of deoxycytidine, cytidine or increased level of cytidine deaminase. Mejer J, et al. **Adv Exp Med Biol** 1989; 253B:335-9

The toxicity of cytarabine. Stentoft J. **Drug Saf** 1990 Jan-Feb; 5(1):7-27 (139 ref.)

Morphological changes of astroglia in the cerebellar cortex of developing mice after neonatal administration of cytosine arabinoside. Ono K, et al. **GLIA** 1990;3(4):311-4

Arabinosylcytosine-induced accumulation of DNA nicks in myotube nuclei detected by in situ nick translation. Masuck TM, et al. **J Cell Physiol** 1990 Jul;144(1):12-7

CYTIDINE

ESR spectra for protonated thymine and cytidine radical anions: their relevance to irradiated DNA. Symons MC. **Int J Radiat Biol** 1990 Jul;58(1):93-6

General acid-base catalysis in nucleobase amino proton exchange: cytidine. McConnell B. **J Biomol Struct Dyn** 1986 Dec;4(3):419-36

Free-radical reactions induced by OH-radical attack on cytosine-related compounds: a study by a method

combining ESR, spin trapping and HPLC. Hiraoka W, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1217–23

ANALOGS & DERIVATIVES

Broad-spectrum antiviral activity of carbodine, the carbocyclic analogue of cytidine. De Clercq E, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):319–25

Synthesis, antitumor activity, and antiviral activity of 3-substituted 3-deazacytidines and 3-substituted 3-deazauridines. McNamara DJ, et al. **J Med Chem** 1990 Jul;33(7):2006–11

Conformational characteristics of 4-acetylcytidine found in tRNA. Kawai G, et al. **Nucleic Acids Symp Ser** 1989; (21):61–2

[Molecular mechanism of N4-aminocytidine mutagenesis] Negishi K. **Yakugaku Zasshi** 1990 May;110(5):293–303 (33 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Nucleotide composition bias and CpG dinucleotide content in the genomes of HIV and HTLV 1/2. Kypr J, et al. **Biochim Biophys Acta** 1989 Dec 22;1009(3):280–2

METABOLISM

Substituent effects on degradation rates and pathways of cytosine nucleosides. Nguyen NA, et al. **J Pharm Sci** 1989 Oct;78(10):802–6

PHARMACOLOGY

Reduction of ara-C cytotoxicity in HL 60 cells by addition of deoxycytidine, cytidine or increased level of cytidine deaminase. Mejer J, et al. **Adv Exp Med Biol** 1989; 253B:335–9

CYTIDINE CYCLIC MONOPHOSPHATE see under **CYTOSINE NUCLEOTIDES**

CYTIDINE DEAMINASE see under **NUCLEOSIDE DEAMINASES**

CYTIDINE DIPHOSPHATE see under **CYTOSINE NUCLEOTIDES**

CYTIDINE DIPHOSPHATE CHOLINE see under **CHOLINE**

CYTIDINE DIPHOSPHATE DIGLYCERIDES see under **NUCLEOSIDE DIPHOSPHATE SUGARS**

CYTIDINE MONOPHOSPHATE see under **CYTOSINE NUCLEOTIDES**

CYTIDINE MONOPHOSPHATE N-ACETYLNEURAMINIC ACID see under **SIALIC ACIDS**

CYTIDINE PHOSPHATES see **CYTOSINE NUCLEOTIDES**

CYTIDINE TRIPHOSPHATE see under **CYTOSINE NUCLEOTIDES**

CYTIDYLATE PHOSPHATASE see **5'-NUCLEOTIDASE**

CYTOCHALASIN B

METABOLISM

Genetic evidence indicating the identity of the cytochalasin B photolabelled components in rat myoblasts. Chen SR, et al. **Biochem Int** 1990;20(4):747–59

Binding of [3H]cytochalasin B to tumoral islet cells. Garcia-Mateu S, et al. **Biochem Int** 1990;21(1):69–75

Glycation of the human erythrocyte glucose transporter in vitro and its functional consequences. Bilan PJ, et al. **Biochem J** 1990 Jun 15;268(3):661–7

PHARMACOLOGY

Actin critical concentration optimizes at intermediate [cytochalasin B]/[actin] ratios. Wang F, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):543–7

Evidence for a role of microfilaments in insulin release from purified beta-cells. Wang JL, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):424–30

Effects of cytochalasin B in culture and in vivo on murine Madison 109 lung carcinoma and on B16 melanoma. Bousquet PF, et al. **Cancer Res** 1990 Mar 1;50(5):1431–9

Flow cytometric studies of the survival of cytochalasin-induced polyploidy in Chinese hamster ovary cells. Court JB, et al. **Cell Biol Int Rep** 1990 May; 14(5):433–45

Colocalization of vinculin-containing adhesion plaques, microfilaments and cytokeratin filaments in cytochalasin-treated PtK1 cells. Roscioli NA, et al. **Eur J Cell Biol** 1989 Dec;50(2):522–4

F-actin organization influences the osmotic reactions of animal cells. Kajstura J, et al. **Folia Histochem Cytobiol** 1989;27(4):201–8

Visualization of the cytoskeleton in Leydig cells in vitro. Effect of luteinizing hormone and cytoskeletal disrupting drugs. Bilińska B. **Histochemistry** 1989;93(1):105–10

Suppression of anaphylactic shock in sensitized guinea pigs by cytochalasin B. Stefani DV, et al. **Immunol Lett** 1989 Sep;22(3):193–4

Organelle distribution in chick neuroepithelial cells: effects of colchicine and cytochalasin B. Fernández Alvarez JG, et al. **Int J Dev Biol** 1989 Jun;33(2):317–23

Disruption of cytoskeletal structures results in the induction of the urokinase-type plasminogen activator gene expression. Botteri FM, et al. **J Biol Chem** 1990 Aug 5; 265(22):13327–34

3,5,3'-tri-iodothyronine enhances sugar transport in rat thymocytes by increasing the intrinsic activity of the plasma membrane sugar transporter. Segal J, et al. **J Endocrinol** 1990 Jan;124(1):133–40

System approach to the transepithelial transport across rat jejunal enterocytes: effect of cytochalasin B, colchicine, and ethylenediaminetetraacetic acid on butyric acid transport. Kreydiyyeh SI, et al. **J Pharm Sci** 1990 Jun; 79(6):494–9

Effect of cytochalasin B on the uptake of ascorbic acid and glucose by 3T3 fibroblasts: mechanism of impaired ascorbate transport in diabetes. Fay MJ, et al. **Life Sci** 1990; 46(9):619–24

A modified method and staining technique for the in vitro micronucleus test in human lymphocytes using cytochalasin B. Pascoe SA, et al. **Mutat Res** 1990 Jun-Aug; 234(3-4):253–5

Inhibition and reversal of platelet activation by cytochalasin B or colcemid. Kay MM, et al. **Nature** 1973 Aug 3; 244(5414):288–9

Tetraploid mouse embryos produced by cytochalasin B during cleavage. Snow MH. **Nature** 1973 Aug 24; 244(5417):513–5

Augmentation by cytochalasin B of antigen receptor-mediated activation of normal and malignant human B lymphocytes. Saltz L, et al. **Scand J Immunol** 1990 Jan;31(1):109–19

Evidence that cytochalasins reduce the size of polymerization nuclei during actin polymerization. Wendel H, et al. **Z Naturforsch [C]** 1990 Mar-Apr;45(3-4):300–2

TOXICITY

Cytochalasin B induces cellular DNA fragmentation. Kolber MA, et al. **FASEB J** 1990 Sep;4(12):3021–7

Micronuclei assay in cytokinesis-blocked binucleated and conventional mononucleated methods in human peripheral lymphocytes. Nath CJ, et al. **Teratogenesis Carcinog Mutagen** 1990;10(3):273–9

CYTOCHALASIN D

PHARMACOLOGY

Interactive effects of O3, cytochalasin D, and vinblastine on transepithelial transport and cytoskeleton in rat airways. Bhalla DK, et al. **Am J Respir Cell Mol Biol** 1990 Aug; 3(2):119–29

Effect of cytochalasin D on acinar cell structure and secretion in rat parotid salivary glands in vitro. Tojyo Y, et al. **Arch Oral Biol** 1989;34(11):847–55

Evidence for a role of microfilaments in insulin release from purified beta-cells. Wang JL, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):424–30

Inhibition of cytochalasin D-stimulated G-actin ATPase by ADP-ribosylation with Clostridium perfringens iota toxin. Geipel U, et al. **Biochem J** 1990 Mar 1;266(2):335–9

Microfilaments and cellular signal transduction: effect of cytochalasin D on the production of cAMP, inositol phosphates, and on calcium movements in rat parotid glands. Huleux C, et al. **Biol Cell** 1989;67(1):61–5

Influence of cytochalasin D on the lipid transfer between cells and liposomes. Baibakov BA, et al. **Biomed Biochim Acta** 1990;49(1):129–32

Cytochalasin D inhibits basal body migration and ciliary elongation in quail oviduct epithelium. Boisvieux-Ulrich E, et al. **Cell Tissue Res** 1990 Mar;259(3):443–54

Brief cytochalasin-induced disruption of microfilaments during a critical interval in 1-cell C. elegans embryos alters the partitioning of developmental instructions to the 2-cell embryo. Hill DP, et al. **Development** 1990 Jan;108(1):159–72

Actin gene expression in murine erythroleukemia cells treated with cytochalasin D. Sympson CJ, et al. **Exp Cell Res** 1990 Jul;189(1):28–32

Characterization of the cytochalasin D-resistant (pinocytic) mechanisms of endocytosis utilized by chlamydiae. Reynolds DJ, et al. **Infect Immun** 1990 Oct;58(10):3208–16

p52 induction by cytochalasin D in rat kidney fibroblasts: homologies between p52 and plasminogen activator inhibitor type-1. Higgins PJ, et al. **J Cell Physiol** 1990 May; 143(2):321–9

Nerve growth in the absence of growth cone filopodia and the effects of a small applied electric field. McCaig CD. **J Cell Sci** 1989 Aug;93 (Pt 4):715–21

ATP and calmodulin dependent actomyosin aggregates induced by cytochalasin D in goldfish retinal ganglion cell axons in vitro. Edmonds BT, et al. **J Neurobiol** 1990 Jun; 21(4):555–66

Effects of cytochalasin D on actin and vinculin in cultured corneal epithelial cells. Soong HK, et al. **J Ocul Pharmacol** 1990 Summer;6(2):113–21

Characterization of a cytochalasin D-resistant mutant of Entamoeba histolytica. de la Garza M, et al. **J Protozool** 1989 Nov-Dec;36(6):556–60

The effect of cytochalasin D on protein synthesis in Xenopus laevis oocytes. De Sousa PA, et al. **Mol Reprod Dev** 1990 Jul;26(3):248–52

Cytochalasin D inhibits nuclear translocation of nonhistone proteins induced by lectin and other agents in lymphocytes. Polet H. **Proc Soc Exp Biol Med** 1990 May;194(1):5–9

Evidence that cytochalasins reduce the size of polymerization nuclei during actin polymerization. Wendel H, et al. **Z Naturforsch [C]** 1990 Mar-Apr;45(3-4):300–2

[Fibroblast spreading in the presence of cytochalasin D: immunoelectron microscopy of the cytoskeleton] Svitkina TM. **Tsitologiia** 1989 Oct;31(10):1158–64 (Eng. Abstr.) **(Rus)**

CYTOCHALASINS

Cytochalasins: a short review. Mujumdar AM. **Hindustan Antibiot Bull** 1989 Feb-May;31(1-2):15–24 (92 ref.)

ANALYSIS

Nuclear magnetic resonance studies of cytochalasin E and its decomposition product. Kajimoto T, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug;37(8):2212–3

PHARMACOLOGY

The effects of new cytochalasins from Phomopsis sp. and the derivatives on cellular structure and actin polymerization. Hirose T, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):971–4

Cytochalasin-induced nitroblue tetrazolium dye (NBT) reduction in polymorphonuclear leukocytes. Elferink JG, et al. **Res Commun Chem Pathol Pharmacol** 1990 May; 68(2):175–87

CYTOCHEMISTRY see **HISTOCYTOCHEMISTRY**

CYTOCHROME AA3 see **CYTOCHROME OXIDASE**

CYTOCHROME B

Structural properties of apocytochrome b5: presence of a stable native core. Moore CD, et al. **Biochemistry** 1990 Feb 27;29(8):1984–9

Lumen-side topography of the alpha-subunit of the chloroplast cytochrome b-559. Tae GS, et al. **FEBS Lett** 1989 Dec 18;259(1):161–4

ANALYSIS

EPR characterization of the CP47-D1-D2-cytochrome b-559 complex of photosystem II. Petersen J, et al. **Biochemistry** 1990 Apr 3;29(13):3226–31

Characterization of the multiple forms of cytochrome b559 in photosystem II. Thompson LK, et al. **Biochemistry** 1989 Oct 3;28(20):8048–56

Ultrastructural localization of cytochrome b in the membranes of resting and phagocytosing human granulocytes. Jesaitis AJ, et al. **J Clin Invest** 1990 Mar; 85(3):821–35

Iron deficiency reduces cytochrome concentrations of mitochondria isolated from hamster cheek pouch epithelium. Ranasinghe AW, et al. **J Oral Pathol Med** 1989 Dec;18(10):582–5

BLOOD

Identification of the haem-binding subunit of cytochrome b-245. Nugent JH, et al. **Biochem J** 1989 Dec 15; 264(3):921–4

Evidence for a functional cytoplasmic domain of phagocyte oxidase cytochrome b558. Rotrosen D, et al. **J Biol Chem** 1990 May 25;265(15):8745–50

DEFICIENCY

Prenatal diagnosis of cytochrome-deficient chronic granulomatous disease [letter] Nakamura M, et al. **Lancet** 1990 Jul 14;336(8707):118–9

GENETICS

Complementary DNA for the mouse homolog of the small subunit of human cytochrome b558. Sumimoto H, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):902–6

Studies on the CoQH2-cytochrome c reductase segment of the respiratory chain of yeast mitochondria, using mutants of the cytochrome b split gene. Lemesle-Meunier D. **Biochimie** 1989 Nov-Dec;71(11-12):1145–55 (49 ref.)

Partially edited mRNAs for cytochrome b and subunit III of cytochrome oxidase from Leishmania tarentolae mitochondria: RNA editing intermediates. Sturm NR, et al. **Cell** 1990 Jun 1;61(5):871–8

DNA sequence analysis of the apocytochrome b gene of Podospora anserina: a new family of intronic open reading frame. Cummings DJ, et al. **Curr Genet** 1989 Dec; 16(5-6):407–18

CBP7 codes for a co-factor required in conjunction with a mitochondrial maturase for splicing of its cognate intervening sequence. Muroff I, et al. **EMBO J** 1990 Sep; 9(9):2765–73

Isolation and RNA sequence analysis of cytochrome b

mutants resistant to funiculosin, a center i inhibitor of the mitochondrial ubiquinol–cytochrome c reductase in Saccharomyces cerevisiae. di Rago JP, et al. **FEBS Lett** 1990 Apr 9;263(1):93–8

Intragenic suppressors reveal long distance interactions between inactivating and reactivating amino acid replacements generating three-dimensional constraints in the structure of mitochondrial cytochrome b. di Rago JP, et al. **J Biol Chem** 1990 Sep 15;265(26):15750–7

Pseudo-wild type revertants from inactive apocytochrome b mutants as a tool for the analysis of the structure/function relationships of the mitochondrial ubiquinol–cytochrome c reductase of Saccharomyces cerevisiae. di Rago JP, et al. **J Biol Chem** 1990 Feb 25;265(6):3332–9

Cytochrome b561 is fatty acylated and oriented in the chromaffin granule membrane with its carboxyl terminus cytoplasmically exposed. Kent UM, et al. **J Biol Chem** 1990 Sep 25;265(27):16422–7

Function of plastid mRNA 3' inverted repeats. RNA stabilization and gene-specific protein binding. Stern DB, et al. **J Biol Chem** 1989 Nov 5;264(31):18742–50

A missense mutation in the neutrophil cytochrome b heavy chain in cytochrome-positive X-linked chronic granulomatous disease. Dinauer MC, et al. **J Clin Invest** 1989 Dec;84(6):2012–6

Evolutionary conservation of protein regions in the protonmotive cytochrome b and their possible roles in redox catalysis. Howell N. **J Mol Evol** 1989 Aug; 29(2):157–69

CBP2 protein promotes in vitro excision of a yeast mitochondrial group I intron. Gampel A, et al. **Mol Cell Biol** 1989 Dec;9(12):5424–33

The yeast CBP1 gene produces two differentially regulated transcripts by alternative 3'-end formation. Mayer SA, et al. **Mol Cell Biol** 1989 Oct;9(10):4161–9

RNA editing in the cytochrome b locus of the higher plant Oenothera berteriana includes a U-to-C transition. Schuster W, et al. **Mol Cell Biol** 1990 May;10(5):2428–31

Cloning and sequencing of the fbcF, B and C genes encoding the cytochrome b/c1 complex from Rhodopseudomonas viridis. Verbist J, et al. **Mol Gen Genet** 1989 Nov; 219(3):445–52

Mitochondrial cytochrome b genes with a six-nucleotide deletion or single-nucleotide substitutions confer resistance to antimycin A in the yeast Kluyveromyces lactis. Coria R, et al. **Mol Microbiol** 1989 Nov;3(11):1599–604

Wolinella succinogenes fumarate reductase contains a dihaem cytochrome b. Körtner C, et al. **Mol Microbiol** 1990 May; 4(5):855–60

Novel hybrid maturases in unstable pseudorevertants of maturaseless mutants of yeast mitochondrial DNA. Anziano PQ, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3233–9

Sequence of the rice mitochondrial gene for apocytochrome b. Kaleikau EK, et al. **Nucleic Acids Res** 1990 Jan 25; 18(2):372

Analysis of NADH dehydrogenase proteins, ATPase subunit 9, cytochrome b, and ribosomal protein L14 encoded in the mitochondrial DNA of Paramecium. Pritchard AE, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):163–71

Targeted deletion mutagenesis of the beta subunit of cytochrome b559 protein destabilizes the reaction center of photosystem II. Pakrasi HB, et al. **Z Naturforsch [C]** 1990 May;45(5):423–9

Photoinactivation of photosystem II and degradation of the D 1 protein are reduced in a cytochrome b6/f-less mutant of Chlamydomonas reinhardtii. Shochat S, et al. **Z Naturforsch [C]** 1990 May;45(5):395–401

ISOLATION & PURIFICATION

Characterization by electron microscopy of isolated particles and two-dimensional crystals of the CP47–D1–D2–cytochrome b–559 complex of photosystem II. Dekker JP, et al. **Biochemistry** 1990 Apr 3;29(13):3220–5

Comparison of the D1/D2/cytochrome b559 reaction centre complex of photosystem two isolated by two different methods. Gounaris K, et al. **FEBS Lett** 1990 Jun 4; 265(1–2):88–92

Purification and properties of two terminal oxidase complexes of Escherichia coli aerobic respiratory chain. Kita K, et al. **Methods Enzymol** 1986;126:94–113

A simple, one-step purification for cytochrome b from the bc1 complexes of bacteria. Payne WE, et al. **Methods Enzymol** 1986;126:325–31

METABOLISM

Alternative respiration pathways in Schwanniomyces castellii. I. Isolation and characterization of cytochrome-deficient mutants. Dubreucq E, et al. **Antonie Van Leeuwenhoek** 1990 Apr;57(3):123–30

Oxidation—reduction midpoint potentials of the flavin, haem and Mo-pterin centres in spinach (Spinacia oleracea L.) nitrate reductase. Kay CJ, et al. **Biochem J** 1989 Oct 1; 263(1):285–7

On the question of interheme electron transfer in the chloroplast cytochrome b6 in situ. Furbacher PN, et al. **Biochemistry** 1989 Nov 14;28(23):8990–8

Occurrence of cytochrome b558 in B-cell lineage of human lymphocytes. Kobayashi S, et al. **Blood** 1990 Jan 15; 75(2):458–61

Electron-transfer restoration by vitamin K3 in a complex III-deficient mutant of S. cerevisiae and sequence of the corresponding cytochrome b mutation. Brivet-Chevillotte P, et al. **FEBS Lett** 1989 Sep 11;255(1):5–9

Transcriptional regulation of the cytochrome b562-o complex in Escherichia coli. Gene expression and molecular characterization of the promoter. Minagawa J, et al. **J Biol Chem** 1990 Jul 5;265(19):11198–203

Heme-copper and heme-heme interactions in the cytochrome bo-containing quinol oxidase of Escherichia coli. Salerno JC, et al. **J Biol Chem** 1990 Mar 15; 265(8):4364–8

Asparagine-linked glycosylation of cytochrome b558 large subunit varies in different human phagocytic cells. Kleinberg ME, et al. **J Immunol** 1989 Dec 15; 143(12):4152–7

Bis-methionine axial ligation of haem in bacterioferritin from Pseudomonas aeruginosa. Cheesman MR, et al. **Nature** 1990 Aug 23;346(6286):771–3

Association of a Ras-related protein with cytochrome b of human neutrophils. Quinn MT, et al. **Nature** 1989 Nov 9; 342(6246):198–200

CYTOCHROME B5

Validity domain of the weak-phase-object approximation for electron diffraction of thin protein crystals. Ho MH, et al. **Acta Crystallogr A** 1988 Nov 1;44 (Pt 6):878–84

Identification by proton nuclear magnetic resonance of the histidines in cytochrome b5 modified by diethyl pyrocarbonate. Altman J, et al. **Biochemistry** 1989 Sep 19; 28(19):7516–23

Direct electrochemistry of protein-protein complexes involving cytochrome c, cytochrome b5, and plastocyanin. Bagby S, et al. **Biochemistry** 1990 Apr 3;29(13):3213–9

Structural studies of cytochrome b5: complete sequence-specific resonance assignments for the trypsin-solubilized microsomal ferrocytochrome b5 obtained from pig and calf. Guiles RD, et al. **Biochemistry** 1990 Feb 6;29(5):1276–89

ANALYSIS

Distribution of cytochromes P-450, cytochrome b5, and NADPH-cytochrome P-450 reductase in an entire human liver. Watkins PB, et al. **Biochem Pharmacol** 1990 Feb 1; 39(3):471–6

ANTAGONISTS & INHIBITORS

Putidaredoxin competitively inhibits cytochrome b5-cytochrome P-450cam association: a proposed molecular model for a cytochrome P-450cam electron-transfer complex. Stayton PS, et al. **Biochemistry** 1989 Oct 3;28(20):8201–5

GENETICS

Soluble and membrane-bound forms of cytochrome b5 are the products of a single gene in chicken. Zhang H, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):412–5

Mutagenic, electrochemical, and crystallographic investigation of the cytochrome b5 oxidation-reduction equilibrium: involvement of asparagine-57, serine-64, and heme propionate-7. Funk WD, et al. **Biochemistry** 1990 Jun 12;29(23):5500–8

Isolation and characterization of human liver cytochrome b5 cDNA. Miyata M, et al. **Pharmacol Res** 1989 Sep-Oct; 21(5):513–20

Isolation and characterization of cDNA clones for human, bovine and rabbit liver cytochrome b5 mRNA's. Cristiano RJ, et al. **Prog Clin Biol Res** 1989;319:123–30; discussion 131

METABOLISM

Effect of divalent cations on NADH-dependent and NADPH-dependent cytochrome b5 reduction by hepatic microsomes. Tamura M, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):313–9

Correlation of enzyme activities with fluorescence anisotropy of dansyl-labeled cytochrome b5/NADH-cytochrome-b5 reductase systems in phosphatidylcholine vesicles. Pugh EL, et al. **Biochim Biophys Acta** 1989 Nov 3;985(3):255–65

Reduction of hexavalent chromium in a reconstituted system of cytochrome P-450 and cytochrome b5. Mikalsen A, et al. **Chem Biol Interact** 1989;71(2–3):213–21

Crosslinking of cytochrome c and cytochrome b5 with a water-soluble carbodiimide. Reaction conditions, product analysis and critique of the technique. Mauk MR, et al. **Eur J Biochem** 1989 Dec 22;186(3):473–86

An analysis of pseudocontact shifts and their relationship to structural features of the redox states of cytochrome b5. Veitch NC, et al. **FEBS Lett** 1990 Sep 3;269(2):297–304

On the mechanism of one-electron reduction of quinones by microsomal flavin enzymes: the kinetic analysis between cytochrome B5 and menadione. Iyanagi T. **Free Radic Res Commun** 1990;8(4–6):259–68

Human colon tumor cell line LS174T drug metabolizing system. Hammond DK, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):95–105

Cytochrome b5 potentiation of cytochrome P-450 catalytic activity demonstrated by a vaccinia virus-mediated in situ reconstitution system. Aoyama T, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5425–9

NMR characterization of surface interactions in the cytochrome b5-cytochrome c complex. Burch AM, et al. **Science** 1990 Feb 16;247(4944):831–3

Indications for adaptation to differently high vitamin C supplies in guinea pigs. 2. Development of hepatic amounts of microsomal protein and cytochromes (P-450, b5) after altered dosing. Degkwitz E, et al. **Z Ernahrungswiss** 1989 Dec;28(4):338–44

CYTOCHROME BC1 COMPLEX see **UBIQUINOL-CYTOCHROME C REDUCTASE**

CYTOCHROME C

Linear algebraic analyses of structures with one predominant type of anomalous scatterer. Karle J. **Acta Crystallogr A** 1989 Apr 1;45 (Pt 4):303–7

EPR spectra of ferric cytochromes c' from five strains of Achromobacter xylosoxidans at low temperature and their temperature dependence. Yoshimura T, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1235–41

Membrane-entrapped microperoxidase as a 'solid-state' promoter in the electrochemistry of soluble metalloproteins. Brunori M, et al. **Biochem J** 1989 Nov 15;264(1):301–4

Direct electrochemistry of protein-protein complexes involving cytochrome c, cytochrome b5, and plastocyanin. Bagby S, et al. **Biochemistry** 1990 Apr 3;29(13):3213–9

NMR comparison of prokaryotic and eukaryotic cytochromes c. Chau MH, et al. **Biochemistry** 1990 May 29;29(21):5076–87

Assignment of the 1H and 15N NMR spectra of Rhodobacter capsulatus ferrocytochrome c2. Gooley PR, et al. **Biochemistry** 1990 Mar 6;29(9):2278–90

Mechanism of acid-induced folding of proteins. Goto Y, et al. **Biochemistry** 1990 Apr 10;29(14):3480–8

Cytochrome c at charged interfaces. 1. Conformational and redox equilibria at the electrode/electrolyte interface probed by surface-enhanced resonance Raman spectroscopy. Hildebrandt P, et al. **Biochemistry** 1989 Aug 8;28(16):6710–21

Cytochrome c at charged interfaces. 2. Complexes with negatively charged macromolecular systems studied by resonance Raman spectroscopy. Hildebrandt P, et al. **Biochemistry** 1989 Aug 8;28(16):6722–8

Replacement of a conserved proline and the alkaline conformational change in iso-2-cytochrome c. Nall BT, et al. **Biochemistry** 1989 Dec 12;28(25):9834–9

Photoinduced electron transfer within complexes between plastocyanin and ruthenium bisbipyridine dicarboxybipyridine cytochrome c derivatives. Pan LP, et al. **Biochemistry** 1990 Apr 3;29(13):3231–6

Thermostability of cytochrome c-552 from the thermophilic hydrogen-oxidizing bacterium Hydrogenobacter thermophilus. Sanbongi Y, et al. **Biochemistry** 1989 Dec 12;28(25):9574–8

Microcalorimetric studies of conformational transitions of ferricytochrome c in acidic solution. Potekhin S, et al. **Biophys Chem** 1989 Sep 15;34(1):55–62

Stabilization of helical structure in two 17-residue amphipathic analogues of the C-terminal peptide of cytochrome C. Collawn JF, et al. **Biopolymers** 1990 Jul-Aug 5;29(8–9):1289–96

Quantitative conformational analysis of cytochrome c bound to phospholipid vesicles studied by resonance Raman spectroscopy. Hildebrandt P, et al. **Eur Biophys J** 1990; 18(3):193–201

The complex formed between plastocyanin and cytochrome c. Investigation by NMR spectroscopy. Bagby S, et al. **Eur J Biochem** 1990 Mar 10;188(2):413–20

Evidence for fast and discriminatory electron transfer of proteins at modified gold electrodes. Bond AM, et al. **Eur J Biochem** 1990 Aug 17;191(3):737–42

Redox-linked conformational changes in proteins detected by a combination of infrared spectroscopy and protein electrochemistry. Evaluation of the technique with cytochrome c. Moss D, et al. **Eur J Biochem** 1990 Feb 14;187(3):565–72

Crystallization and characterization of Chromatium vinosum cytochrome c'. McRee DE, et al. **J Biol Chem** 1990 Apr 5;265(10):5364–5

Crystallization of tuna ferricytochrome c at low ionic strength. Walter MH, et al. **J Biol Chem** 1990 Mar 15; 265(8):4177–80

Probing stability and dynamics of proteins by protease digestion. I: Comparison of protease susceptibility and thermal stability of cytochromes c. Endo S, et al. **J Biomol Struct Dyn** 1985 Oct;3(2):409–21

High-resolution three-dimensional structure of horse heart cytochrome c. Bushnell GW, et al. **J Mol Biol** 1990 Jul 20;214(2):585–95

A polypeptide chain-refolding event occurs in the Gly82 variant of yeast iso-1-cytochrome c. Louie GV, et al. **J Mol Biol** 1989 Nov 20;210(2):313–22

High-resolution refinement of yeast iso-1-cytochrome c and comparisons with other eukaryotic cytochromes c. Louie GV, et al. **J Mol Biol** 1990 Jul 20;214(2):527–55

Heat capacity of proteins. II. Partial molar heat capacity of the unfolded polypeptide chain of proteins: protein unfolding effects. Privalov PL, et al. **J Mol Biol** 1990 May 20;213(2):385–91

Axial ligand replacement in horse heart cytochrome c by semisynthesis. Raphael AL, et al. **Proteins** 1989;6(3):338–40

Molecular dynamics effects on protein electrostatics. Wendoloski JJ, et al. **Proteins** 1989;5(4):313–21
Effect of cytochrome c concentration on the ultrastructural appearance of bovine nasal cartilage proteoglycans. Front P, et al. **Stain Technol** 1989 May;64(3):113–9

ANALYSIS

Quantitation of testicular and somatic cytochromes c in testis and somatic tissues from developing rats. Kim IC. **Anal Biochem** 1989 Aug 15;181(1):140–4
Resonance Raman characterization of Chromatium vinosum cytochrome c'. Effect of pH and comparison of equilibrium and photolyzed carbon monoxide species. Hobbs JD, et al. **Biochemistry** 1990 May 1;29(17):4166–74
Cytochrome c–551 from the thermophilic bacterium PS3 grown under air–limited conditions. Sone N, et al. **Biochim Biophys Acta** 1989 Dec 7;977(3):329–34
Pro——Ala–35 Rhodobacter capsulatus cytochrome c2 shows dynamic not structural differences. A 1H and 15N NMR study. Gooley PR, et al. **FEBS Lett** 1990 Jan 29; 260(2):225–8
Characterization of a novel soluble c–type cytochrome in a moxD mutant of Methylobacterium extorquens AM1. Day DJ, et al. **J Gen Microbiol** 1990 Jan;136 (Pt 1):181–8
Kinetics of heme octapeptide (microperoxidase–8; MP–8) formation studied by high–pressure liquid chromatography (HPLC) monitoring of the peptic and tryptic hydrolysis of horse heart cytochrome–c. Adams PA, et al. **J Inorg Biochem** 1989 Sep;37(1):55–9
Iron deficiency reduces cytochrome concentrations of mitochondria isolated from hamster cheek pouch epithelium. Ranasinghe AW, et al. **J Oral Pathol Med** 1989 Dec;18(10):582–5
A comparison of the amino acid sequences of Crithidia fasciculata and Trypanosoma rhodesiense cytochromes c. Sylvester DA, et al. **J Parasitol** 1990 Jun;76(3):445–7

BIOSYNTHESIS

Effect of enzymatic methylation of apocytochrome c on holocytochrome c formation and proteolysis. Frost B, et al. **Int J Biochem** 1989;21(12):1407–14
Expression of the gene encoding cytochrome c3 from Desulfovibrio vulgaris (Hildenborough) in Escherichia coli: export and processing of the apoprotein. Pollock WB, et al. **J Gen Microbiol** 1989 Aug;135 (Pt 8):2319–28

BLOOD

[Determination of the concentration of cytochrome c and its antibodies in the blood serum for the diagnosis and prognosis of complications in myocardial infarct patients] Gvatua NA, et al. **Ter Arkh** 1990;62(4):58–61 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Solid–phase synthesis of the native sequence of horse heart cytochrome c–(66–104)–nonatriacontapeptide and of a C–terminal carboxyamide analog selectively modified at Met–80. di Bello C, et al. **Int J Pept Protein Res** 1990 Apr;35(4):336–45

GENETICS

Daily running for 2 wk and mRNAs for cytochrome c and alpha–actin in rat skeletal muscle. Morrison PR, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):C936–9
Communication between mitochondria and the nucleus in regulation of cytochrome genes in the yeast Saccharomyces cerevisiae. Forsburg SL, et al. **Annu Rev Cell Biol** 1989; 5:153–80 (155 ref.)
Molecular cloning, sequencing and expression of cytochrome c2 from Rhodospirillum rubrum. Self SJ, et al. **Biochem J** 1990 Jan 15;265(2):599–604
Cloning and sequencing of the gene encoding cytochrome c–551 from Pseudomonas aeruginosa. Arai H, et al. **FEBS Lett** 1990 Feb 12;261(1):196–8
The structural gene for cytochrome c551 from Pseudomonas aeruginosa. The nucleotide sequence shows a location downstream of the nitrite reductase gene. Nordling M, et al. **FEBS Lett** 1990 Jan 1;259(2):230–2
Expression and activity of a gene encoding rat cytochrome c in the yeast Saccharomyces cerevisiae. Clements JM, et al. **Gene** 1989 Nov 15;83(1):1–14
NRF–1: a trans–activator of nuclear–encoded respiratory genes in animal cells. Evans MJ, et al. **Genes Dev** 1990 Jun;4(6):1023–34
Studies of yeast cytochrome c: how and why they started and why they continued. Sherman F. **Genetics** 1990 May; 125(1):9–12
Isolation of a Rhodobacter capsulatus mutant that lacks c–type cytochromes and excretes porphyrins. Biel SW, et al. **J Bacteriol** 1990 Mar;172(3):1321–6
Sequence analysis and transcriptional organization of the Rhodopseudomonas viridis cytochrome c2 gene. Grisshammer R, et al. **J Bacteriol** 1990 Sep;172(9):5071–8
Rhodobacter sphaeroides spd mutations allow cytochrome c2–independent photosynthetic growth. Rott MA, et al. **J Bacteriol** 1990 Apr;172(4):1954–61
Mutagenesis of the gene encoding cytochrome c550 of Paracoccus denitrificans and analysis of the resultant physiological effects [published erratum appears in J Bacteriol 1990 Jun;172(6):3534] Van Spanning RJ, et al. **J Bacteriol** 1990 Feb;172(2):986–96
Mutagenesis of the gene encoding cytochrome c550 of Paracoccus denitrificans and analysis of the resultant physiological effects. Van Spanning RJ, et al. **J Bacteriol** 1990 Jun;172(6):3534
Construction, expression, and localization of a CycA::PhoA fusion protein in Rhodobacter sphaeroides and Escherichia coli. Varga AR, et al. **J Bacteriol** 1989 Nov;171(11):5830–9
Structure and transcription of the genes encoding the B1015 light–harvesting complex beta and alpha subunits and the photosynthetic reaction center L, M, and cytochrome c subunits from Rhodopseudomonas viridis. Wiessner C, et al. **J Bacteriol** 1990 Jun;172(6):2877–87
Differential stability of two apo–isocytochromes c in the yeast Saccharomyces cerevisiae. Dumont MD, et al. **J Biol Chem** 1990 Feb 15;265(5):2733–9
Complete amino acid sequence of the cytochrome subunit and amino–terminal sequence of the flavin subunit of flavocytochrome c (sulfide dehydrogenase) from Chlorobium thiosulfatophilum. Van Beeumen J, et al. **J Biol Chem** 1990 Jun 15;265(17):9793–9
Bacillus subtilis 13–kilodalton cytochrome c–550 encoded by cccA consists of a membrane–anchor and a heme domain. von Wachenfeldt C, et al. **J Biol Chem** 1990 Aug 15; 265(23):13939–48
Release of two Saccharomyces cerevisiae cytochrome genes, COX6 and CYC1, from glucose repression requires the SNF1 and SSN6 gene products. Wright RM, et al. **Mol Cell Biol** 1990 Mar;10(3):1297–300
A completely conserved rat U6 snRNA pseudogene coding sequence is sandwiched between a cytochrome c retropseudogene and a LINE–like sequence. Sibbald PR, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1063
Internal deletions in the yeast transcriptional activator HAP1 have opposite effects at two sequence elements. Kim KS, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4524–8
Transcription terminates near the poly(A) site in the CYC1 gene of the yeast Saccharomyces cerevisiae. Russo P, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8348–52
Amino acid sequence requirements for the association of apocytochrome c with mitochondria. Sprinkle JR, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5729–33
Deletions and replacements of omega loops in yeast iso–1–cytochrome c. Fetrow JS, et al. **Proteins** 1989; 6(4):372–81

IMMUNOLOGY

Antigenic sites on cytochrome c2 from Rhodospirillum rubrum. Saad B, et al. **Eur J Biochem** 1990 Jan 26; 187(2):425–30
Analysis of peptide binding patterns in different major histocompatibility complex/T cell receptor complexes using pigeon cytochrome c–specific T cell hybridomas. Evidence that a single peptide binds major histocompatibility complex in different conformations. Bhayani H, et al. **J Exp Med** 1989 Nov 1;170(5):1609–25
Regulation and development of cytochrome c–specific IL–4–producing T cells. Betz M, et al. **J Immunol** 1990 Aug 15;145(4):1046–52
The specificity of human anti–cytochrome c autoantibodies that arise in autoimmune disease. Mamula MJ, et al. **J Immunol** 1990 Mar 1;144(5):1835–40
An analysis of the physical properties of peptides that influence the pigeon cytochrome c specific T lymphocyte response. Collawn JF, et al. **Mol Immunol** 1989 Nov; 26(11):1069–79
Lack of correlation between structural properties and biological activity of two cross–reacting cytochrome c T cell epitopes as determined by circular dichroism measurements. Vita C, et al. **Mol Immunol** 1990 Mar; 27(3):291–5
An antibody binding site on cytochrome c defined by hydrogen exchange and two–dimensional NMR. Paterson Y, et al. **Science** 1990 Aug 17;249(4970):755–9
Antigen presentation by B cells and macrophages of cytochrome c and its antigenic fragment when conjugated to the surface of liposomes. Dal Monte PR, et al. **Vaccine** 1989 Oct;7(5):401–8

ISOLATION & PURIFICATION

Cytochrome c"isolated from Methylophilus methylotrophus. An example of bis–histidine–co–ordinated Fe3+ haem, with near–perpendicular orientation of the ligands. Berry MJ, et al. **Biochem J** 1990 Sep 1;270(2):413–7
Soluble cytochromes and a photoactive yellow protein isolated from the moderately halophilic purple phototrophic bacterium, Rhodospirillum salexigens. Meyer TE, et al. **Biochim Biophys Acta** 1990 Apr 26; 1016(3):364–70
Thiobacillus ferrooxidans cytochrome c–552: purification and some of its molecular features. Sato A, et al. **Biochim Biophys Acta** 1989 Sep 28;976(2–3):129–34
Soluble cytochromes from the marine methanotroph Methylomonas sp. strain A4. DiSpirito AA, et al. **J Bacteriol** 1990 Sep;172(9):5360–7

METABOLISM

Structural transitions of carboxymethylated cytochrome c: calorimetric and circular dichroic studies. Santucci R, et al. **Arch Biochem Biophys** 1989 Dec;275(2):496–504
1H, 13C, and 15N resonance assignments for a ferrocytochrome c553 heme by multinuclear NMR spectroscopy. Zehfus MH, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):369–73
Identification of a periplasmic C–type cytochrome as electron donor to the plasma membrane–bound cytochrome oxidase of the cyanobacterium Nostoc Mac. Obinger C, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):492–501
Cytochrome c methylation. Paik WK, et al. **Biochem Cell Biol** 1989 Sep;67(9):602–11 (57 ref.)
Specific inhibition of redox–linked proton pump activity of cytochrome oxidase by oleate hydroperoxide and involvement of ferrocytochrome c in the catabolism of hydroperoxide. Yoshida S, et al. **Biochem Int** 1990; 21(1):33–40
The role of cytochrome c4 in bacterial respiration. Cellular location and selective removal from membranes. Hunter DJ, et al. **Biochem J** 1989 Aug 15;262(1):233–40
1H–n.m.r. evaluation of the ferricytochrome c–cardiolipin interaction. Effect of superoxide radicals. Soussi B, et al. **Biochem J** 1990 Jan 1;265(1):227–32
Redox protein electron–transfer mechanisms: electrostatic interactions as a determinant of reaction site in c–type cytochromes. Cheddar G, et al. **Biochemistry** 1989 Jul 25; 28(15):6318–22
Photoinduced electron–transfer kinetics of singly labeled ruthenium bis(bipyridine) dicarboxybipyridine cytochrome c derivatives. Durham B, et al. **Biochemistry** 1989 Oct 17; 28(21):8659–65
Estimation of microscopic redox potentials of a tetraheme protein, cytochrome c3 of Desulfovibrio vulgaris, Miyazaki F, and partial assignments of heme groups. Fan KJ, et al. **Biochemistry** 1990 Mar 6;29(9):2257–63
Redox–dependent structure change and hyperfine nuclear magnetic resonance shifts in cytochrome c. Feng Y, et al. **Biochemistry** 1990 Apr 10;29(14):3494–504
Salt–dependent structure change and ion binding in cytochrome c studied by two–dimensional proton NMR. Feng Y, et al. **Biochemistry** 1990 Apr 10;29(14):3505–9
Conformational changes in cytochrome c and cytochrome oxidase upon complex formation: a resonance Raman study. Hildebrandt P, et al. **Biochemistry** 1990 Feb 13;29(6):1661–8
The mitochondrial precursor protein apocytochrome c strongly influences the order of the headgroup and acyl chains of phosphatidylserine dispersions. A 2H and 31P NMR study. Jordi W, et al. **Biochemistry** 1990 Mar 6; 29(9):2312–21
Role of specific lysine residues in binding cytochrome c2 to the Rhodobacter sphaeroides reaction center in optimal orientation for rapid electron transfer. Long JE, et al. **Biochemistry** 1989 Aug 22;28(17):6970–4
Kinetics of cyanide binding to Chromatium vinosum ferricytochrome c'. Motie M, et al. **Biochemistry** 1990 Feb 20;29(7):1932–6
Coordination and redox properties of a novel triheme cytochrome from Desulfovibrio vulgaris (Hildenborough). Tan JA, et al. **Biochemistry** 1990 May 22;29(20):4886–92
Assignments of 15N and 1H NMR resonances and a neutral pH ionization in Rhodospirillum rubrum cytochrome c2. Yu LP, et al. **Biochemistry** 1990 Mar 27;29(12):2914–9
Characterization of pH–dependent conformational heterogeneity in Rhodospirillum rubrum cytochrome c2 using 15N and 1H NMR. Yu LP, et al. **Biochemistry** 1990 Mar 27;29(12):2920–5
The steady–state kinetics of cytochrome c oxidation by cytochrome oxidase. Cooper CE. **Biochim Biophys Acta** 1990 Jun 26;1017(3):187–203 (157 ref.)
Interaction of cytochrome c with cytochrome c oxidase: an understanding of the high– to low–affinity transition. Garber EA, et al. **Biochim Biophys Acta** 1990 Feb 2; 1015(2):279–87
Polyanion binding to cytochrome c probed by resonance Raman spectroscopy. Hildebrandt P. **Biochim Biophys Acta** 1990 Sep 3;1040(2):175–86
L–Lactate cytochrome c reductase: rapid kinetic studies of electron transfers within the flavocytochrome b2–cytochrome c assembly. Janot JM, et al. **Biochim Biophys Acta** 1990 Apr 5;1016(2):165–76
The role of c–type cytochromes in the photosynthetic electron transport pathway of Rhodobacter capsulatus. Jones MR, et al. **Biochim Biophys Acta** 1990 Aug 9; 1019(1):59–66
Apocytochrome c: an exceptional mitochondrial precursor protein using an exceptional import pathway. Stuart RA, et al. **Biochimie** 1990 Feb–Mar;72(2–3):115–21 (69 ref.)
One– and two–dimensional proton NMR studies of cys–102 S–methylated yeast isozyme–1 ferricytochrome c. Busse SC, et al. **Biophys J** 1990 Jul;58(1):45–51
Assignment of paramagnetically shifted resonances in the 1H NMR spectrum of horse ferricytochrome c. Feng YQ, et al. **Biophys J** 1990 Jan;57(1):15–22
Orientation of adsorbed cytochrome c as a function of the electrical potential of the interface studied by total internal reflection fluorescence. Fraaije JG, et al. **Biophys J** 1990 May;57(5):965–75
Early steps in mitochondrial protein import: receptor functions can be substituted by the membrane insertion activity of apocytochrome c. Stuart RA, et al. **Cell** 1990 Jan 12;60(1):31–43
Crosslinking of cytochrome c and cytochrome b5 with a water–soluble carbodiimide. Reaction conditions, product analysis and critique of the technique. Mauk MR, et al. **Eur J Biochem** 1989 Dec 22;186(3):473–86

Flavin-photosensitized oxidation of reduced c-type cytochromes. Reaction mechanism and comparison with photoreduction of oxidized cytochromes by flavin semiquinones. Roncel M, et al. **Eur J Biochem** 1990 Aug 17;191(3):531–6

Spin–equilibrium and heme–ligand alteration in a high–potential monoheme cytochrome (cytochrome c554) from Achromobacter cycloclastes, a denitrifying organism. Saraiva LM, et al. **Eur J Biochem** 1990 Apr 30; 189(2):333–41

Electron transport in sulfate-reducing bacteria. Molecular modeling and NMR studies of the rubredoxin—tetraheme-cytochrome-c3 complex. Stewart DE, et al. **Eur J Biochem** 1989 Nov 20;185(3):695–700

Kinetics of photosynthetic electron transfer in artificial vesicles reconstituted with purified complexes from Rhodobacter capsulatus. II. Direct electron transfer between the reaction center and the bc1 complex and role of cytochrome c2. Venturoli G, et al. **Eur J Biochem** 1990 Apr 20;189(1):95–103

Kinetics of photosynthetic electron transfer in artificial vesicles reconstituted with purified complexes from Rhodobacter capsulatus. I. The interaction of cytochrome c2 with the reaction center. Venturoli G, et al. **Eur J Biochem** 1990 Apr 20;189(1):105–12

Phenethyl alcohol disorders phospholipid acyl chains and promotes translocation of the mitochondrial precursor protein apocytochrome c across a lipid bilayer. Jordi W, et al. **FEBS Lett** 1990 Feb 12;261(1):55–8

Disruption of the gene encoding subunit VI of yeast cytochrome bc1 complex causes respiratory deficiency of cells with reduced cytochrome c levels. Kim CH, et al. **FEBS Lett** 1990 Jun 18;266(1–2):78–82

The mechanism of cytochrome C reduction by alkyl radicals. Evidence for multiple reaction pathways. Bors W, et al. **Free Radic Res Commun** 1989;6(4):251–6

Application of the electrochemistry of cytochrome c to the measurement of superoxide radical production. McNeil CJ, et al. **Free Radic Res Commun** 1989;7(2):89–96

Effect of enzymatic methylation of apocytochrome c on holocytochrome c formation and proteolysis. Frost B, et al. **Int J Biochem** 1989;21(12):1407–14

Interaction of pyridoxal phosphate modified cytochromes c with mitoplasts. Mitovska MI, et al. **Int J Biochem** 1989; 21(12):1297–301

Identification of a domain in cytochrome C that displaces [3H]TCP binding from rat brain membrane receptors: synthesis of beta-neuroprotectin. O'Neill JB, et al. **Int J Biochem** 1990;22(4):335–9

The methanol-oxidizing system of Methylobacterium extorquens AM1 reconstituted with purified constituents. Mukai K, et al. **J Biochem (Tokyo)** 1990 May;107(5):714–7

Direct voltammetry of the Chromatium vinosum enzyme, sulfide:cytochrome c oxidoreductase (flavocytochrome c552). Guo LH, et al. **J Biol Chem** 1990 Feb 5; 265(4):1958–63

Proton NMR study of the comparative electronic/magnetic properties and dynamics of the acid in equilibrium with alkaline transition in a series of ferricytochromes c'. La Mar GN, et al. **J Biol Chem** 1990 Sep 25;265(27):16173–80

Heterogeneity of human monocytes: differences in response to IFN-gamma. Levy R, et al. **J Biol Regul Homeost Agents** 1989 Oct–Dec;3(4):153–8

Probing stability and dynamics of proteins by protease digestion. II: Identification of the initial chymotryptic cleavage sites of homologous cytochromes c. Miki Y, et al. **J Biomol Struct Dyn** 1988 Aug;6(1):1–21

A novel technique to link either proteins or peptides to gammaglobulin to construct tolerogens. Borel H, et al. **J Immunol Methods** 1990 Feb 9;126(2):159–68

A new cytochrome C reducing dipeptide. Simpkins C. **J Natl Med Assoc** 1990 Feb;82(2):113–6

Preparation of hinge protein and its requirement for interaction of cytochrome c with cytochrome c1. King TE, et al. **Methods Enzymol** 1986;126:238–53

Reversible import of apocytochrome c into mitochondria. Hakvoort TB, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):4996–5000

NMR characterization of surface interactions in the cytochrome b5–cytochrome c complex. Burch AM, et al. **Science** 1990 Feb 16;247(4944):831–3

Light-induced activation and synchronization of the cytochrome P-450 dependent monooxygenase system. Häberle W, et al. **Z Naturforsch [C]** 1990 Mar–Apr; 45(3–4):273–9

[Effect of benzodiazepines on enzyme-metabolizing drugs. III. Activity of microsomal monooxygenases in the rat liver exposed to chlordiazepoxide and elevated environmental temperature] Pachecka J, et al. **Acta Pol Pharm** 1989; 46(2):183–6 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Specificity of the interaction of amino- and carboxy-terminal fragments of the mitochondrial precursor protein apocytochrome c with negatively charged phospholipids. A spin-label electron spin resonance study. Jordi W, et al. **Biochemistry** 1989 Nov 14;28(23):8998–9005

RADIATION EFFECTS

[The role of the complex formation between cytochrome c and NAD in the manifestation of the photoprotective effect of the dinucleotide in relation to hemeprotein] Artiukhov VG, et al. **Radiobiologiia** 1990 Mar–Apr;30(2):151–7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Changes of myocardial functions in acute hepatic porphyrias. Role of heme arginate administration. Kordač V, et al. **Ann Med** 1989 Aug;21(4):273–6

[Clinico-cytochemical substantiation of the effectiveness of cytochrome C in metabolic correction of a complicated form of acute pneumonia in infants] Radzhiev AA, et al. **Pediatriia** 1990;(1):111–2 **(Rus)**

CYTOCHROME C-1 see under **CYTOCHROME C**

CYTOCHROME C OXIDASE see **CYTOCHROME OXIDASE**

CYTOCHROME OXIDASE

Preliminary studies on the crystallization of beef heart cytochrome c oxidase by vapor diffusion. Zamudio I, et al. **Biochem Biophys Res Commun** 1990 Jun 29; 169(3):1105–10

The proteoliposomal steady state. Effect of size, capacitance and membrane permeability on cytochrome-oxidase-induced ion gradients. Wrigglesworth JM, et al. **Biochem J** 1990 Aug 15;270(1):109–18

The two oxygen-regulated subunits of cytochrome c oxidase in Dictyostelium discoideum derive from a common ancestor. Capaldi RA, et al. **FEBS Lett** 1990 Feb 12; 261(1):158–60

A 1H NMR study of bovine cytochrome oxidase. Paramagnetically shifted resonances of haem a. Rigby SE, et al. **FEBS Lett** 1989 Oct 23;257(1):155–8

Structural analogies between different redox enzymes inserted into biological membranes. Degli Esposti M, et al. **Int J Biochem** 1989;21(6):599–608 (28 ref.)

Electron cryo-microscopic analysis of crystalline cytochrome oxidase. Valpuesta JM, et al. **J Mol Biol** 1990 Jul 5;214(1):237–51

ANALYSIS

Cytochrome c oxidases: polypeptide composition, role of subunits, and location of active metal centers. Azzi A, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):242–51 (106 ref.)

Structure and assembly of cytochrome c oxidase. Capaldi RA. **Arch Biochem Biophys** 1990 Aug 1;280(2):252–62 (152 ref.)

Subunit analysis of bovine cytochrome c oxidase by reverse phase high performance liquid chromatography. Robinson NC, et al. **Arch Biochem Biophys** 1990 Sep;281(2):239–44

Cytochrome c oxidase activity in human liver specimens. An index of prognosis for hepatic resection. Sakai Y, et al. **Arch Surg** 1990 May;125(5):632–5

Use of oxonol V as a probe of membrane potential in proteoliposomes containing cytochrome oxidase in the submitochondrial orientation. Cooper CE, et al. **Biochemistry** 1990 Apr 24;29(16):3859–65

Characterization of reductant-induced, tryptophan fluorescence changes in cytochrome oxidase. Ferreira-Rajabi L, et al. **Biochemistry** 1989 Oct 3; 28(20):8028–32

Raman/absorption simultaneous measurements for cytochrome oxidase compound A at room temperature with a novel flow apparatus. Ogura T, et al. **Biochemistry** 1989 Oct 3;28(20):8022–7

Cytochrome oxidase response to cochlea removal in chicken auditory brainstem neurons. Hyde GE, et al. **J Comp Neurol** 1990 Jul 15;297(3):329–39

[Infrared laser spectroscopy for the measurement of cytochrome aa3] Bucher HU, et al. **Biomed Tech (Berlin)** 1990;35 Suppl 1:47–9 **(Ger)**

ANTAGONISTS & INHIBITORS

Specific inhibition of redox-linked proton pump activity of cytochrome oxidase by oleate hydroperoxide and involvement of ferrocytochrome c in the catabolism of hydroperoxide. Yoshida S, et al. **Biochem Int** 1990; 21(1):33–40

Inhibition of cytochrome oxidase by dibucaine. Stringer BK, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1077–81

Inactivation of cytochrome cd1 by hydrazines. Yap-Bondoc F, et al. **J Biol Chem** 1990 Mar 15;265(8):4247–53

Chalcogenapyrylium dyes as photochemotherapeutic agents. 2. Tumor uptake, mitochondrial targeting, and singlet-oxygen-induced inhibition of cytochrome c oxidase. Detty MR, et al. **J Med Chem** 1990 Apr; 33(4):1108–16

BIOSYNTHESIS

Arrest of cytochrome-c oxidase synthesis coordinated with catabolic arrest in dormant Artemia embryos. Hofmann GE, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1184–91

BLOOD

Cytochrome oxidase deficiency in Alzheimer's disease. Parker WD Jr, et al. **Neurology** 1990 Aug;40(8):1302–3

[Cytochrome oxidase activity of peripheral blood leukocytes in patients with diffuse toxic goiter] Podil'chak MD, et al. **Vrach Delo** 1990 Jan;(1):36–7 (Eng. Abstr.) **(Rus)**

DEFICIENCY

A case of mitochondrial myopathy, encephalopathy and lactic acidosis due to cytochrome c oxidase deficiency with neurogenic muscular changes. Jinnai K, et al. **Eur Neurol** 1990;30(1):56–60

Cytochrome c oxidase deficiency in muscle with dicarboxylic aciduria and renal tubular acidosis. Pintos-Morell G, et al. **J Child Neurol** 1990 Apr;5(2):147–52

Cytochrome c oxidase deficiency in subacute necrotizing encephalopathy (Leigh syndrome). Hayasaka K, et al. **J Inherited Metab Dis** 1989;12(3):247–56

Progressive cytochrome c oxidase deficiency in a case of Leigh's encephalomyelopathy. Koga Y, et al. **J Neurol Sci** 1990 Jan;95(1):63–76

Tissue specificity in cytochrome c oxidase deficient myopathy. Nonaka I, et al. **J Neurol Sci** 1989 Sep; 92(2–3):193–203

Immunocytological and histochemical correlation in Kearns-Sayre syndrome with mtDNA deletion and partial cytochrome c oxidase deficiency in skeletal muscle. Romero NB, et al. **J Neurol Sci** 1989 Nov;93(2–3):297–309

[Kearns–Sayre syndrome: mitochondrial encephalomyopathy caused by deficiency of the respiratory chain] Desnuelle C, et al. **Rev Neurol (Paris)** 1989;145(12):842–50 (Eng. Abstr.) **(Fre)**

[Cytochrome C oxidase deficiency] Adamovich K, et al. **Orv Hetil** 1990 Aug 12;131(32):1761–3 (19 ref.) (Eng. Abstr.) **(Hun)**

[A case of mitochondrial encephalomyopathy with cardiomyopathy due to decreased complex I and IV activities] Kajiyama M, et al. **No To Hattatsu** 1989 Jul; 21(4):369–73 (Eng. Abstr.) **(Jpn)**

[Benign infantile mitochondrial myopathy due to reversible cytochrome c oxidase deficiency: histological and biochemical analysis] Suzuki M, et al. **No To Hattatsu** 1989 Nov;21(6):543–9 (Eng. Abstr.) **(Jpn)**

[Two cases of mitochondrial myopathy (focal cytochrome c oxidase deficiency), long-term follow-up on a diagnosis of ocular type myasthenia gravis] Matsuda Y, et al. **Rinsho Shinkeigaku** 1989 Sep;29(9):1180–2 (Eng. Abstr.) **(Jpn)**

[Mitochondrial encephalomyopathy (focal cytochrome c oxidase deficiency) with transient episodes of muscle weakness and elevation of serum creatine kinase activity] Ohno M, et al. **Rinsho Shinkeigaku** 1990 Mar;30(3):317–9 (Eng. Abstr.) **(Jpn)**

[A case of MELAS (mitochondrial myopathy, encephalopathy, lactic acidosis and stroke-like episodes) with progressive cytochrome c oxidase deficiency] Sumi K, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):901–8 (Eng. Abstr.) **(Jpn)**

[Cytochrome c oxidase deficiency] Miyabayashi S. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):831–3 **(Jpn)**

[Abnormality in the mitochondrial energy-producing system] Ozawa T, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr; 33(5):824–7 **(Jpn)**

GENETICS

Chicken mitochondrial cytochrome C oxidase subunit II: comparative analysis among the vertebrates. Lee YH, et al. **Biochem Int** 1989 Oct;19(4):889–98

Co-ordinate expression of cytochrome c oxidase subunit III and VIc mRNAs in rat tissues. Hood DA. **Biochem J** 1990 Jul 15;269(2):503–6

Adaptative decrease in expression of the mRNA for uncoupling protein and subunit II of cytochrome c oxidase in rat brown adipose tissue during pregnancy and lactation. Martin I, et al. **Biochem J** 1989 Nov 1;263(3):965–8

Nucleotide sequence of cDNA for nuclear encoded subunit Vb of mouse cytochrome-c oxidase. Basu A, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):98–100

The levels of cytochrome c oxidase subunit II mRNA change during the rat T-cell development. Bustelo XR, et al. **Biochim Biophys Acta** 1989 Dec 7;977(3):341–3

Recent studies of the cytochrome o terminal oxidase complex of Escherichia coli. Chepuri V, et al. **Biochim Biophys Acta** 1990 Jul 25;1018(2–3):124–7

Tissue specificity and defects in human cytochrome c oxidase. Ewart G, et al. **Biochim Biophys Acta** 1990 Jul 25; 1018(2–3):223–4

The molecular pathology of respiratory-chain dysfunction in human mitochondrial myopathies. Morgan-Hughes JA, et al. **Biochim Biophys Acta** 1990 Jul 25;1018(2–3):217–22

Studies on cytochrome-c oxidase, XIV. The amino-acid sequence of subunit I—proteinchemical methods for the analysis of a large hydrophobic membrane protein. Hensel S, et al. **Biol Chem Hoppe Seyler** 1990 May;371(5):411–22

Expression of mitochondrial cytochrome c oxidase in human colonic cell differentiation, transformation, and risk for colonic cancer. Heerdt BG, et al. **Cancer Res** 1990 Mar 1;50(5):1596–600

Partially edited mRNAs for cytochrome b and subunit III of cytochrome oxidase from Leishmania tarentolae mitochondria: RNA editing intermediates. Sturm NR, et al. **Cell** 1990 Jun 1;61(5):871–8

Kinetoplast DNA minicircles encode guide RNAs for editing of cytochrome oxidase subunit III mRNA. Sturm NR, et al. **Cell** 1990 Jun 1;61(5):879–84

DNA sequence analysis of the 24.5 kilobase pair cytochrome oxidase subunit I mitochondrial gene from Podospora anserina: a gene with sixteen introns. Cummings DJ, et al. **Curr Genet** 1989 Dec;16(5–6):381–406

Structure and transcription of the gene coding for subunit 3 of cytochrome oxidase in wheat mitochondria. Gualberto JM, et al. **Curr Genet** 1990 Jan;17(1):41–7

A gene for cytochrome c oxidase subunit III (COXIII) in broad bean mitochondrial DNA: structural features and sequence evolution. Macfarlane JL, et al. **Curr Genet** 1990 Jan;17(1):33–40

Cytochrome oxidase subunit II sequences in Petunia mitochondria: two intron-containing genes and an intron-less pseudogene associated with cytoplasmic male sterility. Pruitt KD, et al. **Curr Genet** 1989 Oct;16(4):281–91

Deletion of the gene for subunit III leads to defective assembly of bacterial cytochrome oxidase. Haltia T, et al. **EMBO J** 1989 Dec 1;8(12):3571–9

Self-splicing of the mobile group II intron of the filamentous fungus Podospora anserina (COI I1) in vitro. Schmidt U, et al. **EMBO J** 1990 Jul;9(7):2289–98

Cytochrome oxidase assembly in yeast requires the product of COX11, a homolog of the P. denitrificans protein encoded by ORF3. Tzagoloff A, et al. **EMBO J** 1990 Sep; 9(9):2759–64

Disruption of the yeast nuclear PET54 gene blocks excision of mitochondrial intron aI5 beta from pre-mRNA for cytochrome c oxidase subunit I. Valencik ML, et al. **EMBO J** 1989 Dec 1;8(12):3899–904

Thyroid hormone and dexamethasone increase the levels of a messenger ribonucleic acid for a mitochondrially encoded subunit but not for a nuclear-encoded subunit of cytochrome c oxidase. Van Itallie CM. **Endocrinology** 1990 Jul;127(1):55–62

Reduced transcription of mitochondrial DNA in the senescent rat. Tissue dependence and effect of L-carnitine. Gadaleta MN, et al. **Eur J Biochem** 1990 Feb 14; 187(3):501–6

Molecular cloning of a cDNA for the smallest nuclear-encoded subunit of sweet potato cytochrome c oxidase. Analysis with the cDNA of the structure and import into mitochondria of the subunit. Nakagawa T, et al. **Eur J Biochem** 1990 Aug 17;191(3):557–61

Are there isoenzymes of cytochrome c oxidase in Paracoccus denitrificans? Raitio M, et al. **FEBS Lett** 1990 Feb 26; 261(2):431–5

A fourth subunit is present in cytochrome c oxidase from the thermophilic bacterium PS3. Sone N, et al. **FEBS Lett** 1990 Mar 26;262(2):249–52

The Pisum sativum mitochondrial gene encoding cytochrome oxidase subunit I has an unusual transcription pattern. Kemmerer EC, et al. **Gene** 1990 May 14;89(2):157–62

Novel use of a chimpanzee pseudogene for chromosomal mapping of human cytochrome c oxidase subunit IV. Lomax MI, et al. **Gene** 1990 Feb 14;86(2):209–16

NRF-1: a trans-activator of nuclear-encoded respiratory genes in animal cells. Evans MJ, et al. **Genes Dev** 1990 Jun;4(6):1023–34

Isolation of Rhizobium phaseoli Tn5-induced mutants with altered expression of cytochrome terminal oxidases o and aa3. Soberón M, et al. **J Bacteriol** 1990 Mar;172(3):1676–80

Yeast cytochrome c oxidase subunit VII is essential for assembly of an active enzyme. Cloning, sequencing, and characterization of the nuclear-encoded gene. Aggeler R, et al. **J Biol Chem** 1990 Sep 25;265(27):16389–93

The sequence of the cyo operon indicates substantial structural similarities between the cytochrome o ubiquinol oxidase of Escherichia coli and the aa3-type family of cytochrome c oxidases. Chepuri V, et al. **J Biol Chem** 1990 Jul 5;265(19):11185–92

The use of gene fusions to determine the topology of all of the subunits of the cytochrome o terminal oxidase complex of Escherichia coli. Chepuri V, et al. **J Biol Chem** 1990 Aug 5;265(22):12978–86

Mitochondrial import of cytochrome c oxidase subunit VIIa in Saccharomyces cerevisiae. Identification of sequences required for mitochondrial localization in vivo. Duhl DM, et al. **J Biol Chem** 1990 May 5;265(13):7273–7

A synthetic presequence reversibly inhibits protein import into yeast mitochondria. Glaser SM, et al. **J Biol Chem** 1990 May 25;265(15):8808–16

Localization of a synthetic presequence that blocks protein import into mitochondria. Glaser SM, et al. **J Biol Chem** 1990 May 25;265(15):8817–22

The mitochondrial targeting function of randomly generated peptide sequences correlates with predicted helical amphiphilicity. Lemire BD, et al. **J Biol Chem** 1989 Dec 5;264(34):20206–15

Isolation and characterization of the cDNAs encoding two isoforms of subunit CIX of bovine cytochrome c oxidase. Lightowlers R, et al. **J Biol Chem** 1990 Feb 15; 265(5):2677–81

Transcriptional regulation of the cytochrome b562-o complex in Escherichia coli. Gene expression and molecular characterization of the promoter. Minagawa J, et al. **J Biol Chem** 1990 Jul 5;265(19):11198–203

Expression of cyoA and cyoB demonstrates that the CO-binding heme component of the Escherichia coli cytochrome o complex is in subunit I. Nakamura H, et al. **J Biol Chem** 1990 Jul 5;265(19):11193–7

COX10 codes for a protein homologous to the ORF1 product of Paracoccus denitrificans and is required for the synthesis of yeast cytochrome oxidase. Nobrega MP, et al. **J Biol Chem** 1990 Aug 25;265(24):14220–6

Structural organization of the rat cytochrome c oxidase subunit IV gene. Yamada M, et al. **J Biol Chem** 1990 May 5;265(13):7687–92

Defective pattern of mitochondrial respiratory enzymes in mitochondrial myopathy. Miyabayashi S, et al. **J Inherited Metab Dis** 1989;12(3):373–7

Mitochondrial DNA sequence analysis of the cytochrome oxidase subunit II gene from Podospora anserina. A group IA intron with a putative alternative splice site. Cummings DJ, et al. **J Mol Biol** 1990 Mar 20;212(2):287–94

The CO-I and CO-II region of honeybee mitochondrial DNA: evidence for variation in insect mitochondrial evolutionary rates. Crozier RH, et al. **Mol Biol Evol** 1989 Jul;6(4):399–411

Overexpression of a leaderless form of yeast cytochrome c oxidase subunit Va circumvents the requirement for a leader peptide in mitochondrial import. Dircks LK, et al. **Mol Cell Biol** 1990 Sep;10(9):4984–6

Upstream activation and repression elements control transcription of the yeast COX5b gene. Hodge MR, et al. **Mol Cell Biol** 1990 Oct;10(10):5510–20

A novel small-subunit ribosomal protein of yeast mitochondria that interacts functionally with an mRNA-specific translational activator. McMullin TW, et al. **Mol Cell Biol** 1990 Sep;10(9):4590–5

Divergent overlapping transcripts at the PET122 locus in Saccharomyces cerevisiae. Ohmen JD, et al. **Mol Cell Biol** 1990 Jun;10(6):3027–35

Identification of an upstream activation sequence and other cis-acting elements required for transcription of COX6 from Saccharomyces cerevisiae. Trawick JD, et al. **Mol Cell Biol** 1989 Dec;9(12):5350–8

Release of two Saccharomyces cerevisiae cytochrome genes, COX6 and CYC1, from glucose repression requires the SNF1 and SSN6 gene products. Wright RM, et al. **Mol Cell Biol** 1990 Mar;10(3):1297–300

Differential expression of nuclear genes for cytochrome c oxidase during myogenesis. Lomax MI, et al. **Muscle Nerve** 1990 Apr;13(4):330–7

RNA editing in plant mitochondria [published erratum appears in 1989 Nov 23;342(6248):460] Covello PS, et al. **Nature** 1989 Oct 19;341(6243):662–6

Uncoupling of the synthesis of edited and unedited COIII RNA in Trypanosoma brucei. Volloch V, et al. **Nature** 1990 Feb 1;343(6257):482–4

Nucleotide sequence of a cDNA for mouse cytochrome c oxidase subunit VIIc. Akamatsu M, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3645

Complete nucleotide sequence of the gene encoding rat cytochrome c oxidase subunit IV. Amuro N, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3992

Nucleotide sequence of a cDNA for bovine cytochrome c oxidase subunit VIIc. Aqua MS, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8376

Nucleotide sequence of the gene encoding cytochrome c oxidase subunit VII from Saccharomyces cerevisiae. Calder KM, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1632

Differences in editing at homologous sites in messenger RNAs from angiosperm mitochondria. Covello PS, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5189–96

Editing of the wheat coxIII transcript: evidence for twelve C to U and one U to C conversions and for sequence similarities around editing sites. Gualberto JM, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3771–6

Nucleotide sequence of carp mitochondrial cytochrome C oxidase III. Huang CJ, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1056

Nucleotide sequence of the cytochrome oxidase subunit I gene from rice mitochondria. Kadowaki K, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7519

Sequence of the rice mitochondrial gene for cytochrome oxidase subunit 3. Kaleikau EK, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):371

Sequence of a cDNA specifying subunit VIIc of human cytochrome c oxidase. Koga Y, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):684

Nucleotide sequence of the gene encoding subunit 3 of cytochrome c oxidase (cox3) in the mitochondrial genome of Schizosaccharomyces pombe strain EF1. Trinkl H, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10104

Detection of "deleted" mitochondrial genomes in cytochrome-c oxidase-deficient muscle fibers of a patient with Kearns-Sayre syndrome. Mita S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9509–13

RNA editing in plant mitochondria. Hiesel R, et al. **Science** 1989 Dec 22;246(4937):1632–4

Tissue-specific genes for respiratory proteins [published erratum appears in Trends Biochem Sci 1990 Jun;15(6):217] Lomax MI, et al. **Trends Biochem Sci** 1989 Dec; 14(12):501–3 (28 ref.)

ISOLATION & PURIFICATION

Cytochrome oxidase from thermophilic bacterium PS3 contains a fourth protein subunit. Gai WZ, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):414–21

Cytochrome aa3 from Sulfolobus acidocaldarius. A single-subunit, quinol-oxidizing archaebacterial terminal oxidase. Anemüller S, et al. **Eur J Biochem** 1990 Jul 31; 191(2):297–305

Demonstration of two isoforms of subunit VIIa of cytochrome c oxidase from human skeletal muscle. Implications for mitochondrial myopathies. Van Beeumen JJ, et al. **FEBS Lett** 1990 Apr 24;263(2):213–6

A novel aco-type cytochrome-c oxidase from a facultative alkalophilic Bacillus: purification, and some molecular and enzymatic features. Qureshi MH, et al. **J Biochem (Tokyo)** 1990 Mar;107(3):480–5

A cytochrome o-type oxidase of the thermophilic bacterium PS3 grown under air-limited conditions. Sone N, et al. **J Biochem (Tokyo)** 1990 Apr;107(4):597–602

Brain cytochrome oxidase: purification, antibody production, and immunohistochemical/histochemical correlations in the CNS. Hevner RF, et al. **J Neurosci** 1989 Nov; 9(11):3884–98

Resolution of cytochrome-c oxidase. Azzi A, et al. **Methods Enzymol** 1986;126:72–7

Purification of the aa3-type cytochrome-c oxidase from Rhodopseudomonas sphaeroides. Azzi A, et al. **Methods Enzymol** 1986;126:138–45

Affinity chromatography purification of cytochrome-c oxidase from bovine heart mitochondria and other sources. Broger C, et al. **Methods Enzymol** 1986;126:64–72

Purification, enzymatic properties, and reconstitution of cytochrome-c oxidase from Bacillus subtilis. de Vrij W, et al. **Methods Enzymol** 1986;126:159–73

Isozymes of cytochrome-c oxidase: characterization and isolation from different tissues. Kadenbach B, et al. **Methods Enzymol** 1986;126:32–45

Purification and properties of two terminal oxidase complexes of Escherichia coli aerobic respiratory chain. Kita K, et al. **Methods Enzymol** 1986;126:94–113

Cytochrome c oxidase from Paracoccus denitrificans. Ludwig B. **Methods Enzymol** 1986;126:153–9

Purification and reconstitution of the cytochrome o-type oxidase from Escherichia coli. Matsushita K, et al. **Methods Enzymol** 1986;126:113–22

Cytochrome oxidase from thermophilic bacterium PS3. Sone N. **Methods Enzymol** 1986;126:145–53

METABOLISM

Activity distribution of cytochrome oxidase in the rat retina. A quantitative histochemical study. Chen E, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):645–51

Chronological observations of histological changes, cytochrome oxidase activity and copper level in the brain of the postnatal brindled mouse. Yoshimura N, et al. **Acta Pathol Jpn** 1990 Jun;40(6):383–90

Adrenal cytochrome-c-oxidase in neonatal and adult rats: sex differences. Piezzi RS, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(2):173–9

Cytochrome c oxidase and cardiolipin alterations in response to skeletal muscle ischaemia and reperfusion. Soussi B, et al. **Acta Physiol Scand** 1990 Feb;138(2):107–14

Increase in cytochrome oxidase capacity of BAT and other tissues in cold-acclimated gerbils. Bourhim M, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1291–8

Redox changes in cat brain cytochrome-c oxidase after blood-fluorocarbon exchange. Ferrari M, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1706–13

Abnormalities of the electron transport chain in idiopathic Parkinson's disease. Parker WD Jr, et al. **Ann Neurol** 1989 Dec;26(6):719–23

Excess dietary methionine decreases indices of copper status in the rat. Strain JJ, et al. **Ann Nutr Metab** 1990;34(2):93–7

Structure and function of cytochrome c oxidase. Capaldi RA. **Annu Rev Biochem** 1990;59:569–96 (218 ref.)

Proton translocation in proteins. Copeland RA, et al. **Annu Rev Phys Chem** 1989;40:671–98 (76 ref.)

Cytochrome oxidase: some unsolved problems and controversial issues. Malmström BG. **Arch Biochem Biophys** 1990 Aug 1;280(2):233–41 (107 ref.)

Identification of a periplasmic C-type cytochrome as electron donor to the plasma membrane-bound cytochrome oxidase of the cyanobacterium Nostoc Mac. Obinger C, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):492–501

A novel a-type terminal oxidase from Sulfolobus acidocaldarius with cytochrome c oxidase activity. Wakagi T, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):1110–4

Na(+)-induced reversal of the Ca2(+)-dependent red-shift of cytochrome a. Is there a hydronium output well in cytochrome c oxidase? Mkrtchyan H, et al. **Biochem Int** 1990;20(1):183–9

Ionic-strength-dependence of the oxidation of native and pyridoxal 5'-phosphate-modified cytochromes c by cytochrome c oxidase. Kossekova G, et al. **Biochem J** 1989 Sep 1;262(2):591–6

Effect of gangliosides on membrane permeability studied by enzymic and fluorescence-spectroscopy techniques. Sarti P, et al. **Biochem J** 1990 Apr 15;267(2):413–6

Protonmotive activity of cytochrome c oxidase: control of oxidoreduction of the heme centers by the protonmotive force in the reconstituted beef heart enzyme. Capitanio N, et al. **Biochemistry** 1990 Mar 27;29(12):2939–45

Cytochrome c oxidase: understanding nature's design of a proton pump. Chan SI, et al. **Biochemistry** 1990 Jan 9; 29(1):1–12 (94 ref.)

Structure and vectorial properties of proteoliposomes containing cytochrome oxidase in the submitochondrial orientation. Cooper CE, et al. **Biochemistry** 1990 Apr 24; 29(16):3865–71

Structural perturbation of the a3-CuB site in mitochondrial

cytochrome c oxidase by alcohol solvents. Fiamingo FG, et al. **Biochemistry** 1990 May 15;29(19):4627–33
Primary intermediate in the reaction of mixed-valence cytochrome c oxidase with oxygen. Han S, et al. **Biochemistry** 1990 Feb 13;29(6):1380–4
Conformational changes in cytochrome c and cytochrome oxidase upon complex formation: a resonance Raman study. Hildebrandt P, et al. **Biochemistry** 1990 Feb 13;29(6):1661–8
Resonance Raman studies of CuA-modified cytochrome c oxidase. Larsen RW, et al. **Biochemistry** 1989 Jul 25; 28(15):6418–22
Effect of changing the detergent bound to bovine cytochrome c oxidase upon its individual electron-transfer steps. Mahapatro SN, et al. **Biochemistry** 1990 Jan 23; 29(3):764–70
Electron transfer between cytochrome a and copper A in cytochrome c oxidase: a perturbed equilibrium study. Morgan JE, et al. **Biochemistry** 1989 Aug 22;28(17):6975–83
Thermal stability of membrane-reconstituted yeast cytochrome c oxidase. Morin PE, et al. **Biochemistry** 1990 Jan 23;29(3):781–8
Incorporation of cytochrome oxidase into cardiolipin bilayers and induction of nonlamellar phases. Powell GL, et al. **Biochemistry** 1990 May 29;29(21):5127–32
Resonance Raman evidence for low-spin Fe2+ heme a3 in energized cytochrome c oxidase: implications for the inhibition of O2 reduction. Ray GB, et al. **Biochemistry** 1990 Apr 3;29(13):3208–13
Effect of chemical modification of lysine amino groups on redox and protonmotive activity of bovine heart cytochrome c oxidase reconstituted in phospholipid membranes. Steverding D, et al. **Biochemistry** 1990 Mar 27;29(12):2945–50
Nitric oxide formed by nitrite reductase of Paracoccus denitrificans is sufficiently stable to inhibit cytochrome oxidase activity and is reduced by its reductase under aerobic conditions. Carr GJ, et al. **Biochim Biophys Acta** 1990 May 15;1017(1):57–62
The steady-state kinetics of cytochrome c oxidation by cytochrome oxidase. Cooper CE. **Biochim Biophys Acta** 1990 Jun 26;1017(3):187–203 (157 ref.)
Interaction of cytochrome c with cytochrome c oxidase: an understanding of the high- to low-affinity transition. Garber EA, et al. **Biochim Biophys Acta** 1990 Feb 2; 1015(2):279–87
Differentiation of brown adipose tissue and biogenesis of thermogenic mitochondria in situ and in cell culture. Houštěk J, et al. **Biochim Biophys Acta** 1990 Jul 25; 1018(2–3):243–7
Tissue- and species-specific expression of cytochrome c oxidase isozymes in vertebrates. Kadenbach B, et al. **Biochim Biophys Acta** 1990 Feb 2;1015(2):368–72
The effect of pH on redox titrations of haem a in cyanide-liganded cytochrome-c oxidase: experimental and modelling studies. Moody AJ, et al. **Biochim Biophys Acta** 1990 Feb 2;1015(2):205–15
The effect of pH and temperature on the reaction of fully reduced and mixed-valence cytochrome c oxidase with dioxygen. Oliveberg M, et al. **Biochim Biophys Acta** 1989 Dec 7;977(3):322–8
Effects of chronic alcohol consumption on the steady-state kinetics properties of cytochrome oxidase in rat liver. Thayer WS, et al. **Biochim Biophys Acta** 1990 Apr 26; 1016(3):333–8
Anemia associated with changes in iron and iron-59 utilization in copper deficient rats fed high levels of dietary ascorbic acid and iron. Johnson MA, et al. **Biol Trace Elem Res** 1988 Sep-Dec;17:69–80
Characterization of two low Em forms of cytochrome a3 and their carbon monoxide complexes in mammalian cytochrome c oxidase. Sidhu GS, et al. **Biophys J** 1990 Jun;57(6):1125–40
Secondarily reduced cytochrome c oxidase activity in various neuromuscular disorders. Ohtaki E. **Brain Dev** 1990; 12(3):326–33
Investigation of central auditory nuclei in the budgerigar with cytochrome oxidase histochemistry. Brauth SE. **Brain Res** 1990 Jan 29;508(1):142–6
Densitometric analysis of cytochrome oxidase in ischemic rat brain. Dimlich RV, et al. **Brain Res** 1990 May 21; 516(2):181–91
The compartmentalization of the monkey and rat cerebellar cortex: zebrin I and cytochrome oxidase. Leclerc N, et al. **Brain Res** 1990 Jan 1;506(1):70–8
Increased nonshivering thermogenesis, brown fat cytochrome-c oxidase activity, GDP binding, and uncoupling protein mRNA levels after short daily cold exposure of Phodopus sungorus. Wiesinger H, et al. **Can J Physiol Pharmacol** 1990 Feb;68(2):195–200
Effects of sonication and growth temperature on the cytochrome oxidase activity of Bacillus species. Liu JK, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):249–60
Antioxidant enzyme status and lipid peroxidation in various tissues of diabetic and starved rats. Asayama K, et al. **Diabetes Res** 1989 Oct;12(2):85–91
Effects of exercise training on brown adipose tissue thermogenesis in ovariectomized obese rats. Yoshioka K, et al. **Endocrinol Jpn** 1989 Jun;36(3):403–8
The effects of age on enzyme activities in the rat facial nucleus following axotomy: acetylcholinesterase and cytochrome oxidase. Vaughan DW. **Exp Neurol** 1990 Aug; 109(2):224–36
RNA sequence and the nature of the CuA-binding site in cytochrome c oxidase. Covello PS, et al. **FEBS Lett** 1990 Jul 30;268(1):5–7
Effect of pH on CO recombination to cytochrome oxidase in intact mitochondria. Harmon HJ, et al. **FEBS Lett** 1990 Jul 2;267(1):167–70
Multifrequency EPR evidence for a bimetallic center at the CuA site in cytochrome c oxidase. Kroneck PM, et al. **FEBS Lett** 1990 Jul 30;268(1):274–6
Role of supernumerary subunits in mitochondrial cytochrome c oxidase. Planques Y, et al. **FEBS Lett** 1989 Dec 4; 258(2):285–8
Influence of surface charge on the incorporation and orientation of cytochrome c oxidase in liposomes. Steverding D, et al. **FEBS Lett** 1989 Oct 23;257(1):131–3
Methods of microphotometric assay of succinate dehydrogenase and cytochrome c oxidase activities for use on human skeletal muscle. Old SL, et al. **Histochem J** 1989 Sep-Oct;21(9–10):545–55
Immunohistochemical demonstration of fibre type-specific isozymes of cytochrome c oxidase in human skeletal muscle. Romero N, et al. **Histochemistry** 1990;94(2):211–5
Effect of electropolarity treatment on activity levels of oxidative enzymes in gastrocnemius muscle of toad, Bufo melanosticus, during early stages of denervation. Sundari BU. **Indian J Exp Biol** 1990 Jun;28(6):572–4
Temperature and pH effects on the kinetic properties of some mitochondrial respiratory activities. A comparative study. Battino M, et al. **Ital J Biochem** 1990 May-Jun; 39(3):170A–171A
In vivo binding of carbon monoxide to cytochrome c oxidase in rat brain. Brown SD, et al. **J Appl Physiol** 1990 Feb; 68(2):604–10
Impact of reduced cytochrome oxidase activity on peak oxygen consumption of muscle. McAllister RM, et al. **J Appl Physiol** 1990 Jul;69(1):384–9
Oxidation/reduction state of cytochrome oxidase during repetitive contractions. Stainsby WN, et al. **J Appl Physiol** 1989 Nov;67(5):2158–62
Localization of the cytochrome cd1 and copper nitrite reductases in denitrifying bacteria. Coyne MS, et al. **J Bacteriol** 1990 May;172(5):2558–62
Roles for enteric d-type cytochrome oxidase in N2 fixation and microaerobiosis. Hill S, et al. **J Bacteriol** 1990 Apr; 172(4):2071–8
N-terminal half of a mitochondrial presequence peptide takes a helical conformation when bound to dodecylphosphocholine micelles: a proton nuclear magnetic resonance study. Endo T, et al. **J Biochem (Tokyo)** 1989 Sep;106(3):396–400
The methanol-oxidizing system of Methylobacterium extorquens AM1 reconstituted with purified constituents. Mukai K, et al. **J Biochem (Tokyo)** 1990 May;107(5):714–7
The K(+)-ionophores nonactin and valinomycin interact differently with the protein of reconstituted cytochrome c oxidase. Steverding D, et al. **J Bioenerg Biomembr** 1990 Apr;22(2):197–205
Observation of the Fe4+ = O stretching Raman band for cytochrome oxidase compound B at ambient temperature. Ogura T, et al. **J Biol Chem** 1990 Sep 5;265(25):14721–3
Control of electron transfer by the electrochemical potential gradient in cytochrome-c oxidase reconstituted into phospholipid vesicles. Sarti P, et al. **J Biol Chem** 1990 Apr 5;265(10):5554–60
Direct detection of a dioxygen adduct of cytochrome a3 in the mixed valence cytochrome oxidase/dioxygen reaction. Varotsis C, et al. **J Biol Chem** 1990 Jul 5;265(19):11131–6
Infrared evidence of cyanide binding to iron and copper sites in bovine heart cytochrome c oxidase. Implications regarding oxygen reduction. Yoshikawa S, et al. **J Biol Chem** 1990 May 15;265(14):7945–58
Protein import into mitochondria: ATP-dependent protein translocation activity in a submitochondrial fraction enriched in membrane contact sites and specific proteins. Pon L, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2603–16
Metabolic anatomy of brain: a comparison of regional capillary density, glucose metabolism, and enzyme activities. Borowsky IW, et al. **J Comp Neurol** 1989 Oct 15;288(3):401–13
Organization of cytochrome oxidase staining in the visual cortex of nocturnal primates (Galago crassicaudatus and Galago senegalensis): I. Adult patterns. Condo GJ, et al. **J Comp Neurol** 1990 Mar 22;293(4):632–45
Transient patterns of GAP-43 expression during the formation of barrels in the rat somatosensory cortex. Erzurumlu RS, et al. **J Comp Neurol** 1990 Feb 15; 292(3):443–56
Quantitative study of glutamic acid decarboxylase-immunoreactive neurons and cytochrome oxidase activity in normal and partially deafferented rat hindlimb somatosensory cortex. Warren R, et al. **J Comp Neurol** 1989 Oct 22;288(4):583–92
Varied cytochrome oxidase activities of the alveolar type I, type II and type III cells in rat lungs: quantitative cytochemistry. Hirai K, et al. **J Electron Microsc (Tokyo)** 1989;38(6):449–56
Cytochrome c oxidase activity in preosteoclasts induced by experimental tooth movement. Noda K, et al. **J Electron Microsc (Tokyo)** 1990;39(2):97–100
Copper deficiency in the mitochondria of cultured skin fibroblasts from patients with Menkes syndrome. Kodama H, et al. **J Inherited Metab Dis** 1989;12(4):386–9
Preparation and spectral characterization of the heme d1.apomyoglobin complex: an unusual protein environment for the substrate-binding heme of Pseudomonas cytochrome oxidase. Steup MB, et al. **J Inorg Biochem** 1989 Nov;37(3):233–57
Development of synaptic transmission at autonomic synapses in vitro revealed by cytochrome oxidase histochemistry. Mawe GM, et al. **J Neurobiol** 1990 Jun;21(4):578–91
Biochemical study on the critical period for treatment of the mottled brindled mouse. Fujii T, et al. **J Neurochem** 1990 Sep;55(3):885–9
Regulation of cytochrome oxidase protein levels by functional activity in the macaque monkey visual system. Hevner RF, et al. **J Neurosci** 1990 Apr;10(4):1331–40
Double labeling of cytochrome oxidase and gamma-aminobutyric acid in central nervous system neurons of adult cats. Luo XG, et al. **J Neurosci Methods** 1989 Dec;30(3):189–95
Iron deficiency reduces cytochrome concentrations of mitochondria isolated from hamster cheek pouch epithelium. Ranasinghe AW, et al. **J Oral Pathol Med** 1989 Dec;18(10):582–5
MRI quantitation of edema in focal cerebral ischemia in cats: correlation with cytochrome aa3 oxidation state. Kline RA, et al. **Magn Reson Med** 1990 Feb;13(2):319–23
Effect of age on kinetics and carbon monoxide binding to cytochrome oxidase in synaptic and non-synaptic brain mitochondria. Harmon HJ. **Mech Ageing Dev** 1990 Mar 31;53(1):35–48
Structure of beef heart cytochrome-c oxidase obtained by combining studies of two-dimensional crystals with biochemical experiments. Capaldi RA, et al. **Methods Enzymol** 1986;126:22–31
Measurement of the H+ pumping activity of reconstituted cytochrome oxidase. Casey RP. **Methods Enzymol** 1986; 126:13–21
Functional reconstitution of bacterial cytochrome oxidases in planar lipid bilayers. Hamamoto T, et al. **Methods Enzymol** 1986;126:123–38
Functional reconstitution of proton-pumping cytochrome-c oxidase in phospholipid vesicles. Müller M, et al. **Methods Enzymol** 1986;126:78–87
Techniques for the study of bovine cytochrome-c oxidase monomer-dimer association. Nalęcz KA, et al. **Methods Enzymol** 1986;126:45–64
Removal of a hydrophobic domain within the mature portion of a mitochondrial inner membrane protein causes its mislocalization to the matrix. Glaser SM, et al. **Mol Cell Biol** 1990 May;10(5):1873–81
Cytochrome oxidase activity in retinas transplanted to the brainstem in rats. Jen LS, et al. **Neurosci Lett** 1989 Nov 6;105(3):275–80
Histochemical changes in enzymes of energy metabolism in the dentate gyrus accompany deafferentation and synaptic reorganization. Borowsky IW, et al. **Neuroscience** 1989; 33(2):253–62
Quantitative histochemical analysis of cytochrome oxidase in rat dorsal root ganglia and its co-localization with carbonic anhydrase. Carr PA, et al. **Neuroscience** 1989; 33(2):351–62
Analysis of parvalbumin and calbindin D28k-immunoreactive neurons in dorsal root ganglia of rat in relation to their cytochrome oxidase and carbonic anhydrase content. Carr PA, et al. **Neuroscience** 1989; 33(2):363–71
Human cytochrome c oxidase during cardiac growth and development. Marin-Garcia J, et al. **Pediatr Cardiol** 1989 Fall;10(4):212–5
Primary intermediate in the reaction of oxygen with fully reduced cytochrome c oxidase. Han SW, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2491–5
Effects of hydrogen sulfide exposure on lung mitochondrial respiratory chain enzymes in rats. Khan AA, et al. **Toxicol Appl Pharmacol** 1990 May;103(3):482–90
[Study of oxidative damage on mitochondrial membrane of myocardium deficient in selenium] Li FS. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Jun;19(2):136–8 (Eng. Abstr.) **(Chi)**
[The effect of egg incubation temperature on the activity of cytochrome oxidase and anionic ATPase in chicken ontogenesis] Simonian AA, et al. **Ukr Biokhim Zh** 1989 Jul-Aug;61(4):69–73 (Eng. Abstr.) **(Rus)**

CYTOCHROME P-450

Secondary structure and membrane topology of cytochrome P450s. Tretiakov VE, et al. **Arch Biochem Biophys** 1989 Dec;275(2):429–39
Membrane topology of microsomal cytochrome P-450: saturation transfer EPR and freeze-fracture electron microscopy studies. Schwarz D, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):175–81
Magnetic circular dichroism studies of the active site structure of hemoprotein H-450: comparison to cytochrome P-450 and sensitivity to pH effects. Svastits EW, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):1170–6
Tyrosine-96 as a natural spectroscopic probe of the cytochrome P-450cam active site. Atkins WM, et al. **Biochemistry** 1990 Feb 6;29(5):1271–5

Theory for the observed isotope effects from enzymatic systems that form multiple products via branched reaction pathways: cytochrome P-450. Korzekwa KR, et al. **Biochemistry** 1989 Nov 14;28(23):9012–8

Conformational change of the heme moiety of the ferrous cytochrome P-450scc–phenyl isocyanide complex upon binding of reduced adrenodoxin. Tsubaki M, et al. **Biochemistry** 1989 Dec 12;28(25):9777–84

Electron spin resonance studies of wild-type and mutant cytochromes P-450d: effects of mutations at proximal, aromatic and distal sites on g values. Sotokawa H, et al. **Biochim Biophys Acta** 1990 Jan 19;1037(1):122–8

Resonance Raman study on the structure of the active sites of microsomal cytochrome P-450 isozymes LM2 and LM4. Hildebrandt P, et al. **Eur J Biochem** 1989 Dec 8; 186(1–2):291–302

Protein–protein interactions in microsomal cytochrome P-450 isozyme LM2 and their effect on substrate binding. Hildebrandt P, et al. **Eur J Biochem** 1989 Dec 8; 186(1–2):383–8

Cytochrome P-450 forms and functions in animals. Proceedings of a symposium of the 2nd International Congress of Comparative Physiology and Biochemistry. Baton Rouge, August 1–5, 1988. **Xenobiotica** 1989 Oct; 19(10):1037–200

[Basic characteristics of rat brain microsomal estradiol 2-hydroxylase] Tsukamoto T. **Nippon Naibunpi Gakkai Zasshi** 1990 Mar 20;66(3):159–67 (Eng. Abstr.) **(Jpn)**

ANALYSIS

The immunocytochemical detection of cytochrome P-450 monooxygenase in the lungs of fetal, neonatal, and adult hamsters. Strum JM, et al. **Am J Respir Cell Mol Biol** 1990 Jun;2(6):493–501

Unusual hyperporphyrin spectrum by bis(glutathione dimethyl ester)-hemin complex, a model of cytochrome P-450–thiolate complexes. Sakurai H, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):22–9

Immunochemical quantification of cytochrome P450IA and IIB subfamilies in the livers of metyrapone-treated rats. Relevance to the ability of metyrapone to prevent the loss of cytochrome P-450 in rat hepatocyte culture. Shean K, et al. **Biochem J** 1990 May 1;267(3):715–9

Selective alteration of constitutive hepatic cytochrome P-450 enzymes in the rat during parenteral hyperalimentation. Knodell RG, et al. **Biochem Pharmacol** 1989 Oct 1; 38(19):3341–5

Effects of acetone and methyl n-butyl ketone on hepatic mixed-function oxidase. Kobusch AB, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3461–7

Human fetal and adult liver metabolism of ethylmorphine. Relation to immunodetected cytochrome P-450 PCN and interactions with important fetal corticosteroids. Ladona MG, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3147–55

Similarities and differences in the regulation of hepatic cytochrome P-450 enzymes by diabetes and fasting in male rats. Ma Q, et al. **Biochem Pharmacol** 1989 Oct 1; 38(19):3179–84

Multiple effects of 3,4,5,3',4',5'-hexachlorobiphenyl administration on hepatic cytochrome P450 isozymes and associated mixed-function oxidase activities in rainbow trout. Miranda CL, et al. **Biochem Pharmacol** 1990 Jul 15; 40(2):387–90

Immunohistochemical localization of cytochrome P450b/e in hepatic and extrahepatic tissues of the rat. Rich KJ, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3305–22

Effect of different doses of 3-methylcholanthrene on the localization of the 3-methylcholanthrene-inducible isoenzymes of cytochrome P450 within the centrilobular and periportal zones of the rat liver. van Sliedregt A, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1703–8

Distribution of cytochromes P-450, cytochrome b5, and NADPH-cytochrome P-450 reductase in an entire human liver. Watkins PB, et al. **Biochem Pharmacol** 1990 Feb 1; 39(3):471–6

Structure, function and regulation of cytochrome P-450 forms in fish. Stegeman JJ, et al. **Biochem Soc Trans** 1990 Feb;18(1):19–21 (20 ref.)

Effects of iron binding agents on Saccharomyces cerevisiae growth and cytochrome P450 content. Wright GD, et al. **Can J Microbiol** 1989 Oct;35(10):945–50

Hepatic nuclear envelope cytochrome P-450 in rats fed 2-acetylaminofluorene. Effect of dietary fats and butylated hydroxytoluene. Carubelli R, et al. **Cancer Lett** 1989 Sep 15;47(1–2):83–9

Mechanisms of cyclophosphamide action on hepatic P-450 expression. LeBlanc GA, et al. **Cancer Res** 1990 Sep 15; 50(18):5720–6

Cytochrome P450 in highly purified suspension of nonparenchymal liver cells. Rich K, et al. **Cell Biochem Funct** 1989 Oct;7(4):275–82

Cytochromes P-450 in murine lung. An immunohistochemical study with monoclonal antibodies. Forkert PG, et al. **Drug Metab Dispos** 1989 Sep–Oct; 17(5):551–5

Cutaneous cytochrome P-450. Mukhtar H, et al. **Drug Metab Rev** 1989;20(2–4):657–73 (49 ref.)

Immunodetectable cytochromes P450 I, II, and III in guinea pig adrenal—hormone responsiveness and relationship to capacity for xenobiotic metabolism. Black VH. **Endocrinology** 1990 Sep;127(3):1153–9

Mutagen excretion and cytochrome P-450-dependent activity in germfree and conventional rats fed a diet containing fried meat. Overvik E, et al. **Food Chem Toxicol** 1990 Apr;28(4):253–61

Characterization of three forms of cytochrome P-450 inducible by 3-methylcholanthrene in Golden hamster livers with special reference to aflatoxin B1 activation. Fukuhara M, et al. **J Biochem (Tokyo)** 1989 Aug; 106(2):253–8

Cytochrome P 450 isoenzymes, epoxide hydrolase and glutathione transferases in rat and human hepatic and extrahepatic tissues. de Waziers I, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):387–94

Identification and induction of cytochromes P450, P450IIE1 and P450IA1 in rabbit bone marrow. Schnier GG, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):790–6

Dual role of phospholipid in the reconstitution of cytochrome P-450 LM2-dependent activities. Causey KM, et al. **Mol Pharmacol** 1990 Jul;38(1):134–42

Interferon down regulates the male-specific cytochrome P450IIIA2 in rat liver. Craig PI, et al. **Mol Pharmacol** 1990 Sep;38(3):313–8

Immunochemical characterization of multiple forms of cytochrome P-450 in rabbit nasal microsomes and evidence for tissue-specific expression of P-450s NMa and NMb. Ding XX, et al. **Mol Pharmacol** 1990 Apr;37(4):489–96

In situ localization and distribution of xenobiotic-activating enzymes and aryl hydrocarbon hydroxylase activity in lungs of untreated rats. Voigt JM, et al. **Mol Pharmacol** 1990 Feb;37(2):182–91

Effect of 5-fluorocytosine and 5-fluorouracil on human and rat hepatic cytochrome P 450. Inselmann G, et al. **Mycoses** 1989 Dec;32(12):638–43

Comparative study on cytochrome P-450 of yeasts using specific antibodies to cytochromes P-450alk and P-450(14DM). Kaergel E, et al. **Yeast** 1990 Jan–Feb; 6(1):61–7

[Immunochemical identification and localization of cytochrome P-45OHS; isozyme in human gastric mucosa and gastric carcinoma] Fang C. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;69(11):617–20, 44 (Eng. Abstr.) **(Chi)**

[The level of cytochrome P-450 in Saccharomyces cerevisiae with disruptions of various stages of sterol synthesis] Ekhvalova TV, et al. **Biokhimiia** 1989 Aug;54(8):1344–7 (Eng. Abstr.) **(Rus)**

[Study of the structural organization of cytochrome P-450 oligomers using immobilized isoenzyme LM2] Miasoedova KN, et al. **Biokhimiia** 1990 Jan;55(1):155–64 (Eng. Abstr.) **(Rus)**

[Immunochemical study of cholesterol-hydroxylating cytochrome P-450. Topology of the peptide chain of the heme protein in the phospholipid membrane] Usanov SA, et al. **Biokhimiia** 1989 Jun;54(6):916–25 (Eng. Abstr.) **(Rus)**

[Changes in the content of cytochrome P-450 and the activity of microsomal and cytosolic glutathione transferases in the liver of guinea pigs undergoing cutaneous application of various doses of mineral oil made from petroleum containing polycyclic aromatic hydrocarbons] Kravchenko MN, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):252–4 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Enhanced decomposition of oxyferrous cytochrome P450CIA1 (P450cam) by the chemopreventive agent 3-t-butyl-4-hydroxyanisole. Gettings SD, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):500–9

Biochemical characterization of a sterol mutant plant regenerated from a tobacco callus resistant to a triazole cytochrome-P-450-obtusifoliol-14-demethylase inhibitor. Maillot-Vernier P, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):125–30

Interaction of azole antifungal antibiotics with cytochrome P-450-dependent 14 alpha-sterol demethylase purified from Candida albicans. Hitchcock CA, et al. **Biochem J** 1990 Mar 1;266(2):475–80

Regulation of hepatic cholesterol biosynthesis. Effects of a cytochrome P-450 inhibitor on the formation and metabolism of oxygenated sterol products of lanosterol. Iglesias J, et al. **Biochem J** 1989 Dec 1;264(2):495–502

In vitro inhibition of mouse hepatic mixed-function oxidase enzymes by helenalin and alantolactone. Chapman DE, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):3913–23

In vitro inhibition of hepatic drug oxidation by thioridazine. Kinetic analysis of the inhibition of cytochrome P-450 isoform-specific reactions. Murray M, et al. **Biochem Pharmacol** 1989 Dec 15;38(24):4359–65

From 14 alpha-demethylase inhibitors in fungal cells to androgen and oestrogen biosynthesis inhibitors in mammalian cells. Vanden Bossche H, et al. **Biochem Soc Trans** 1990 Feb;18(1):10–3 (32 ref.)

Putidaredoxin competitively inhibits cytochrome b5–cytochrome P-450cam association: a proposed molecular model for a cytochrome P-450cam electron-transfer complex. Stayton PS, et al. **Biochemistry** 1989 Oct 3;28(20):8201–5

Furafylline is a potent and selective inhibitor of cytochrome P450IA2 in man. Sesardic D, et al. **Br J Clin Pharmacol** 1990 Jun;29(6):651–63

3,5-Diethoxycarbonyl-2,6-dimethyl-4-ethyl-1,4-dihydropyridine inactivates rat liver cytochrome P-450c, but not its orthologue, rabbit lung form 6. Riddick DS, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):370–3

Biotransformation of N,N',N''-triethylenethiophosphoramide: oxidative desulfuration to yield N,N',N''-triethylenephosphoramide associated with suicide inactivation of a phenobarbital-inducible hepatic P-450 monooxygenase. Ng SF, et al. **Cancer Res** 1990 Feb 1;50(3):464–71

The role of hydrophobicity and electronic factors in regulating alcohol inhibition of cytochrome P-450-mediated aniline hydroxylation. Shusterman AJ, et al. **Chem Biol Interact** 1990;74(1–2):63–77

Inhibitory effect and interaction of stanozolol with pig testicular cytochrome P-450 (17 alpha-hydroxylase/C17,20-lyase). Nakajin S, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1855–8

Inhibition of hepatic microsomal cytochrome P450 by cannabidiol in adult male rats. Narimatsu S, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1365–8

Contrasting effects of norepinephrine and 5-hydroxytryptamine on contractility of abdominal aorta of two kidney-two clip hypertensive rats. Effects of inhibitors of arachidonic acid metabolic enzymes. Rosón MI, et al. **Clin Exp Hypertens [A]** 1990;12(2):285–306

The effect of the cytochrome P-450 suicide inactivator, 1-aminobenzotriazole, on the in vivo metabolism and pharmacologic activity of flurazepam. Capello S, et al. **Drug Metab Dispos** 1990 Mar–Apr;18(2):190–6

Selective inactivation by chlorofluoroacetamides of the major phenobarbital-inducible form(s) of rat liver cytochrome P-450. Halpert J, et al. **Drug Metab Dispos** 1990 Mar–Apr; 18(2):168–74

Design of specific mechanism-based inactivators of hepatic and adrenal microsomal cytochromes P-450 responsible for progesterone 21-hydroxylation. Halpert JR, et al. **Drug Metab Rev** 1989;20(2–4):645–55 (25 ref.)

Inhibition of rat ovarian 3 beta-hydroxysteroid dehydrogenase (3 beta-HSD), 17 alpha-hydroxylase and 17,20 lyase by progestins and danazol. Arakawa S, et al. **Endocrinol Jpn** 1989 Jun;36(3):387–94

Inhibition of ethoxy- and pentoxy-resorufin dealkylases of rat liver by flavones and flavonols: structure-activity relationship. Siess MH, et al. **Eur J Drug Metab Pharmacokinet** 1989 Jul–Sep;14(3):235–9

Inhibitory domain-specific antibodies to cytochrome P-450scc. Usanov SA, et al. **FEBS Lett** 1989 Sep 11; 255(1):125–8

Heme maintains catalytically active structure of cytochrome P-450. Uvarov VYu, et al. **FEBS Lett** 1990 Jan 29; 260(2):309–12

Decrease in a constitutive form of cytochrome P-450 by macrolide antibiotics. Miura T, et al. **J Antimicrob Chemother** 1989 Oct;24(4):551–9

TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin) is a tight binding inhibitor of cytochrome P-450d. Voorman R, et al. **J Biochem Toxicol** 1989 Summer;4(2):105–9

Potent inhibition of cytochrome P450IID6 (debrisoquin 4-hydroxylase) by flecainide in vitro and in vivo. Haefeli WE, et al. **J Cardiovasc Pharmacol** 1990 May;15(5):776–9

Is there a case for P-450 inhibitors in cancer treatment? Van Wauwe JP, et al. **J Med Chem** 1989 Oct;32(10):2231–9 (96 ref.)

Inhibition of rat liver estrogen 2/4-hydroxylase activity by troleandomycin: comparison with erythromycin and roxithromycin. Fisher D, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):1120–7

BY 1023/SK&F 96022 INN pantoprazole, a novel gastric proton pump inhibitor, potently inhibits acid secretion but lacks relevant cytochrome P450 interactions. Kromer W, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):129–35

Effects of cytochrome P-450 inhibitors on the in vivo metabolism of all-trans-retinoic acid in rats. Van Wauwe JP, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):365–9

Catechol estrogen formation in MCF-7 cell culture and effects of bromoestrogen inhibitors. Brueggemeier RW, et al. **Mol Cell Endocrinol** 1989 Jul;64(2):161–7

Selective inactivation of mouse liver cytochrome P-450IIIA by cannabidiol. Bornheim LM, et al. **Mol Pharmacol** 1990 Sep;38(3):319–26

Selectivity in the inhibition of mammalian cytochromes P-450 by chemical agents. Murray M, et al. **Pharmacol Rev** 1990 Jun;42(2):85–101 (150 ref.)

Halomethane hepatotoxicity: induction of lipid peroxidation and inactivation of cytochrome P-450 in rat liver microsomes under low oxygen partial pressures. de Groot H, et al. **Toxicol Appl Pharmacol** 1989 Mar 1;97(3):530–7

[Inactivation of cytochrome P-450 by hydrogen peroxide formed in the catalytic cycle during peroxy-complex degradation] Mengazetdinov DE, et al. **Biokhimiia** 1989 Jul;54(7):1102–7 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Selective induction of cytochrome P450 isozymes in rat liver by 4-n-alkyl-methylenedioxybenzenes. Marcus CB, et al. **Arch Biochem Biophys** 1990 Feb 15;277(1):8–16

The mechanism of action of alpha-naphthoflavone as an inhibitor of 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced CYP1A1 gene expression. Merchant M, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):84–9

Effects of polychlorinated biphenyls on cytochrome P450 induction in the chick embryo hepatocyte culture. Rodman LE, et al. **Arch Biochem Biophys** 1989 Nov 15;

275(1):252–62
Chlorinated biphenyls induce cytochrome P450IA2 and uroporphyrin accumulation in cultures of mouse hepatocytes. Sinclair PR, et al. **Arch Biochem Biophys** 1990 Sep;281(2):225–32
Effects of cytochrome P450-inducing agents on the monooxygenation of testosterone in long-term cultures of hepatocytes from male and female rats. Vind C, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):140–50
Mono-ortho-chlorinated chlorobiphenyls: toxicity and induction of 7-ethoxyresorufin O-deethylase (EROD) activity in chick embryos. Brunström B. **Arch Toxicol** 1990; 64(3):188–92
Food restriction prevents the loss of isosafrole inducible cytochrome P-450 mRNA and enzyme levels in aging rats. Horbach GJ, et al. **Biochem Int** 1990;20(4):725–30
Induction of cytochrome P450III and P450IV family proteins in streptozotocin-induced diabetes. Barnett CR, et al. **Biochem J** 1990 Jun 15;268(3):765–9
Induction of hepatic microsomal P450 I and IIB proteins by hyperketonaemia. Barnett CR, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):393–7
Studies on induction of delta-aminolevulinic acid synthase, ferrochelatase, cytochrome P-450 and cyclic AMP by phenformin. Chlorpropamide, allylisopropylacetamide and lead in hepatocytes from normal and experimental diabetic rats. Cinepa ET, et al. **Biochem Pharmacol** 1990 Jul 15; 40(2):365–72
Effect of xenobiotics on monooxygenase activities in cultured human hepatocytes. Donato MT, et al. **Biochem Pharmacol** 1990 Apr 15;39(8):1321–6
Aflatoxin B1-specific cytochrome P-450 isozyme (P-450-AFB) inducible by 3-methylcholanthrene in golden hamsters. Fukuhara M, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):463–9
Effect of dietary fat on the induction of hepatic microsomal cytochrome P450 isozymes by phenobarbital. Kim HJ, et al. **Biochem Pharmacol** 1990 May 1;39(9):1423–30
Induction of cytochrome P450IA1 in rat hepatoma cell by polycyclic hydrocarbons and a dioxin. Xu LC, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1399–403
Induction of cytochrome P-450 IVA 1-mediated fatty acid hydroxylation: relevance to peroxisome proliferation. Gibson GG, et al. **Biochem Soc Trans** 1990 Feb;18(1):97–9 (14 ref.)
Sexual dimorphism of cytochrome P-450 induction by hexachlorobenzene in rats. Green JA, et al. **Biochem Soc Trans** 1989 Dec;17(6):1016–7
Species differences in specificity of hydrocarbon-inducible forms of cytochrome P-450. Murray BP, et al. **Biochem Soc Trans** 1989 Dec;17(6):1021–2
The formation of cytochrome P-450 from cytochrome P-420 is promoted by spermine. Hui Bon Hoa G, et al. **Biochemistry** 1990 Jul 24;29(29):6810–5
Phenobarbital-inducible gene expression in developing rat liver: relationship to hepatocyte function. Marie S, et al. **Biochim Biophys Acta** 1989 Dec 22;1009(3):221–8
The increase in urinary excretion of 6 beta-hydroxycortisol as a marker of human hepatic cytochrome P450IIIA induction. Ged C, et al. **Br J Clin Pharmacol** 1989 Oct; 28(4):373–87
Regulation of hepatic cytochrome P-450 during infectious disease. Renton KW, et al. **Can J Physiol Pharmacol** 1990 Jun;68(6):777–81 (29 ref.)
Induction of cytochrome P-450 and 5-aminolevulinate synthase activities in cultured rat hepatocytes. Sinclair PR, et al. **Cancer Res** 1990 Sep 1;50(17):5219–24
The induction of P450 I proteins by aromatic amines may be related to their carcinogenic potential. Ayrton AD, et al. **Carcinogenesis** 1990 May;11(5):803–9
Competitive binding affinity of carcinogenic aromatic amines to the rat hepatic aromatic hydrocarbon (Ah) receptor in vitro and potency to induce monooxygenase activity in vivo. Cikryt P, et al. **Carcinogenesis** 1990 Aug; 11(8):1359–66
Promotion of altered hepatic foci development in rat liver, cytochrome P450 enzyme induction and inhibition of cell-cell communication by DDT and some structurally related organohalogen pesticides. Flodström S, et al. **Carcinogenesis** 1990 Aug;11(8):1413–7
Selective expression and induction of cytochrome P450PB and P450MC during the development of hereditary hepatitis and hepatoma of LEC rats. Sugiyama T, et al. **Carcinogenesis** 1989 Nov;10(11):2155–9
Induction of cytochrome P450IA1 in rat colon and liver by indole-3-carbinol and 5,6-benzoflavone. Vang O, et al. **Carcinogenesis** 1990 Aug;11(8):1259–63
Butylated hydroxyanisole-induced alterations in cell kinetic parameters in rat forestomach in relation to its oxidative cytochrome P-450-mediated metabolism. Verhagen H, et al. **Carcinogenesis** 1989 Oct;10(10):1947–51
Functional expression of microsomal and mitochondrial cytochrome P-450 (d and SCC) in COS-7 cells from cloned cDNA. Minowa O, et al. **Cell Struct Funct** 1990 Feb; 15(1):21–30
Induction of hepatic cytochrome P-450 mediated alkoxyresorufin O-dealkylase activities in different species by prototype P-450 inducers. Lubet RA, et al. **Chem Biol Interact** 1990;75(3):325–39
The phenobarbital-type induction of rat liver microsomal monooxygenases by perfluorodecalin. Mishin VM, et al. **Chem Biol Interact** 1989;72(1–2):143–55
Effects of vanadate on hepatic cytochrome P-450 expression in streptozotocin-diabetic rats. Donahue BS, et al. **Drug Metab Dispos** 1990 Jul-Aug;18(4):519–26
Isozyme-specific monoclonal antibody-directed assessment of induction of hepatic cytochrome p-450 by clotrimazole. Khan WA, et al. **Drug Metab Dispos** 1989 Jul-Aug; 17(4):360–4
Induction of cytochromes P-450b/e by phenobarbital in primary culture of adult rat hepatocytes: test of differentiated liver gene expression. Guzelian PS, et al. **Drug Metab Rev** 1989;20(2–4):793–809
Induction of the alcohol-inducible form of cytochrome P-450 by nitrogen-containing heterocycles: effects on pyridine N-oxide production. Novak RF, et al. **Drug Metab Rev** 1989;20(2–4):781–92 (36 ref.)
Modulation of the polycyclic aromatic hydrocarbon-dependent induction of cytochrome P450IA1 by glucocorticoids. Prough RA, et al. **Drug Metab Rev** 1989;20(2–4):585–99
Microspectrofluorimetric study of the kinetics of cellular uptake and metabolization of benzo(a)pyrene in human T 47D mammary tumor cells: evidence for cytochrome P1450 induction. Sureau F, et al. **Eur Biophys J** 1990;18(5):301–7
Ontogenesis of rabbit liver cytochrome P450. Evidence for a cytochrome P450-IIE (3a)-related form prevailing during the post-natal period. Bonfils C, et al. **Eur J Biochem** 1990 Feb 22;188(1):187–94
Expression of cytochrome P-450 enzymes in cultured human hepatocytes. Morel F, et al. **Eur J Biochem** 1990 Jul 31; 191(2):437–44
Difference between species in response to a 3,5-dichloropyridyloxyphenoxy compound: induction of cytochrome P-450 and/or peroxisome proliferation. Schmidt U, et al. **Food Addit Contam** 1989;6 Suppl 1:S41–55
Omeprazole is an aryl hydrocarbon-like inducer of human hepatic cytochrome P450 [see comments] Diaz D, et al. **Gastroenterology** 1990 Sep;99(3):737–47 Comment in: Gastroenterology 1990 Sep;99(3):885–9.
Human cytochrome P450 isoforms. Their genetic heterogeneity and induction by omeprazole [comment] Farrell GC, et al. **Gastroenterology** 1990 Sep;99(3):885–9 (40 ref.) Comment on: Gastroenterology 1990 Sep;99(3):737–47.
Effect of masheri, a pyrolysed tobacco product on carcinogen metabolizing enzymes. Ammigan N, et al. **Indian J Exp Biol** 1989 Aug;27(8):692–4
Evidence for induction of cytochrome P-450I in patients with tropical chronic pancreatitis. Chaloner C, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jun;28(6):235–40
Differences in induction of hepatic cytochrome P450 isozymes by mice in eight methylenedioxyphenyl compounds. Lewandowski M, et al. **J Biochem Toxicol** 1990 Spring;5(1):47–55
Induction of cytochrome P-450 isozymes by mirex and chlordecone. Lewandowski M, et al. **J Biochem Toxicol** 1989 Fall;4(3):195–9
Distinction between octachlorostyrene and hexachlorobenzene in their potentials to induce ethoxyphenoxazone deethylase and cause porphyria in rats and mice. Smith AG, et al. **J Biochem Toxicol** 1986 Mar; 1(1):105–17
Feprazone: an inducer of the P450 II B family of proteins in the rat. Smith JN, et al. **J Biochem Toxicol** 1990 Spring; 5(1):9–12
Genetic and physiological analysis of azole sensitivity in Saccharomyces cerevisiae. Kenna S, et al. **J Med Vet Mycol** 1989;27(6):397–406
Expression of CYP1A1 gene in patients with lung cancer: evidence for cigarette smoke-induced gene expression in normal lung tissue and for altered gene regulation in primary pulmonary carcinomas. McLemore TL, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1333–9
Orchestrated expression of steroidogenic side-chain cleavage cytochrome P-450 during follicular development in the rat ovary. Orly J. **J Reprod Fertil Suppl** 1989;37:155–62
Coordinated induction of estrogen hydroxylase and catechol-O-methyl transferase by xenobiotics in first trimester human placental explants. Barnea ER, et al. **J Steroid Biochem** 1990 Feb;35(2):327–31
Induction of hepatic cytochrome P-450 and xenobiotic metabolizing enzymes in rats gavaged with an Alberta crude oil. Khan AA, et al. **J Toxicol Environ Health** 1989; 28(3):297–307
Extracts of airborne particulates collected at different locations in the Copenhagen area induce the expression of cytochrome P-450IA1. Roepstorff V, et al. **J Toxicol Environ Health** 1990 Aug;30(4):225–37
Strain differences in susceptibility to 2-acetylaminofluorene and phenobarbital promotion of hepatocarcinogenesis: immunohistochemical analysis of cytochrome P-450 isozyme induction by 2-acetylaminofluorene and phenobarbital. Asamoto M, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1041–6
Induction of cytochrome P-450c and P-450d by metyrapone in the primary culture of rat hepatocytes. Hirota K, et al. **Jpn J Pharmacol** 1989 Sep;51(1):136–9
Glucocorticoid regulation of polycyclic aromatic hydrocarbon induction of cytochrome P450IA1, glutathione S-transferases, and NAD(P)H:quinone oxidoreductase in cultured fetal rat hepatocytes. Sherratt AJ, et al. **Mol Pharmacol** 1990 Feb;37(2):198–205
Growth hormone regulation of the cytochrome P-450IIC subfamily in the rat: inductive, repressive, and transcriptional effects on P-450f (IIC7) and P-450PB1 (IIC6) gene expression. Westin S, et al. **Mol Pharmacol** 1990 Aug;38(2):192–7
Induction of cytochrome P450 isozymes in human amnion FL cells. Zhang LY, et al. **Mutat Res** 1989 Oct; 227(2):109–15
Regional distribution of ethanol-inducible cytochrome P450 IIE1 in the rat central nervous system. Hansson T, et al. **Neuroscience** 1990;34(2):451–63
Enzyme induction in the cytochrome P-450 system. Okey AB. **Pharmacol Ther** 1990;45(2):241–98 (292 ref.)
Modulation of constitutive cytochrome P-450 expression in vivo and in vitro in murine keratinocytes as a function of differentiation and extracellular Ca2+ concentration. Reiners JJ Jr, et al. **Proc Natl Acad Sci U S A** 1990 Mar; 87(5):1825–9
Reductive beta-scission of the hydroperoxides of fatty acids and xenobiotics: role of alcohol-inducible cytochrome P-450. Vaz AD, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5499–503
Comparative genetic mechanisms of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced tumors. Greenlee WF, et al. **Prog Clin Biol Res** 1990; 331:177–86 (42 ref.)
Induction and immunohistochemical localization of cytochrome P-450 PCN by non-steroidal compound, in rat liver microsomes. Sagami F, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jan;67(1):79–86
The effects of selective cytochrome P-450 inducing agents on trimethadione metabolism as an indicator of hepatic drug-oxidizing capacity in rats. Tanaka E, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun;68(3):375–8
Interaction of carbon tetrachloride with beta-naphthoflavone-mediated cytochrome P450 induction in winter flounder (Pseudopleuronectes americanus). Kleinow KM, et al. **Toxicol Appl Pharmacol** 1990 Jun 15; 104(2):367–74
The formation of 3-methylcholanthrene-initiated lung tumors correlates with induction of cytochrome P450IA1 by the carcinogen in fetal but not adult mice. Miller MS, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):235–45
Cytochrome P450 isozyme induction by methyl ethyl ketone and m-xylene in rat liver. Raunio H, et al. **Toxicol Appl Pharmacol** 1990 Mar 15;103(1):175–9
Development and validation of in vitro induction assays for toxic halogenated aromatic mixtures: a review. Safe S, et al. **Toxicol Ind Health** 1989 Oct;5(5):757–75 (58 ref.)
Induction of the P-450 I family of proteins by polycyclic aromatic hydrocarbons: possible relationship to their carcinogenicity. Ayrton AD, et al. **Toxicology** 1990 Jan-Feb;60(1–2):173–86
Biological activity of 2,4,8-trichlorodibenzofuran: promotion of rat liver foci and induction of cytochrome P-450-dependent monooxygenases. Deml E, et al. **Toxicology** 1989 Dec 15;59(3):229–38
Induction and inhibition of rat liver cytochrome(s) P-450 by an imidazole fungicide (prochloraz). Laignelet L, et al. **Toxicology** 1989 Dec 15;59(3):271–84
Immunochemical and molecular biological studies on human placental cigarette smoke-inducible cytochrome P-450-dependent monooxygenase activities. Pasanen M, et al. **Toxicology** 1990 May 31;62(2):175–87
Acetone-dependent regulation of cytochrome P-450j (IIE1) and P-450b (IIB1) in rat liver. Ronis MJ, et al. **Xenobiotica** 1989 Oct;19(10):1161–5
Induction of liver microsomal cytochrome P-450 isozymes by 1-(2-chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinoline carboxamide. Totis M, et al. **Xenobiotica** 1989 Aug;19(8):857–66
Induction of cytochrome P-450 isozymes by chromanamine derivatives in rat liver. Tsukidate K, et al. **Xenobiotica** 1989 Aug;19(8):901–12
[Modulation of mRNAs P450 and hepatocarcinogenesis promotion] Lechner MC, et al. **Bull Cancer (Paris)** 1990; 77(5):509–14 (Eng. Abstr.) **(Fre)**
[Comparison of the inducing effect of triphenyldioxan, bis-(dichloropyridyloxy)benzene and phenobarbital on the liver monooxygenase] Mishin VM, et al. **Biokhimiia** 1990 Jan;55(1):29–36 (Eng. Abstr.) **(Rus)**
[Induction of cytochrome P-450 in rat liver microsomes by perfluorodecalin] Adrianov NV, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):164–6 (Eng. Abstr.) **(Rus)**
[Induction of cytochrome P-450 forms by prolonged administration of nifedipine] Gulisaeva LF, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):148–50 (Eng. Abstr.) **(Rus)**
[Cytochrome P-450 induction and the subsequent induction of an immune response in rats during the chronic administration of xenobiotics] Kovalev IE, et al. **Farmakol Toksikol** 1990 Jan-Feb;53(1):54–7 (Eng. Abstr.) **(Rus)**
[Immunomodulators with an 8-azasteroid structure as inducers of liver cytochrome P-450] Kuz'mitskiĭ BB, et al. **Farmakol Toksikol** 1990 Mar-Apr;53(2):52–5 (Eng. Abstr.) **(Rus)**
[Effectiveness of cytochrome P-450 inducer Benzonal in the treatment of acute hepatitis] Makhmudov OS, et al. **Klin Med (Mosk)** 1989 Nov;67(11):62–5 (Eng. Abstr.) **(Rus)**
[The effect of separate and consecutive administration of

cytochrome P-450 inducers to rats on the localization of various isoforms of the enzyme in liver lobe cells] Suslova EE, et al. **Tsitologiia** 1989 Jul;31(7):757–61 (Eng. Abstr.) **(Rus)**

[Effect of glycine on liver cytochrome P-450 and severity of experimental food anaphylaxis] Krzhechkovskaia VV, et al. **Vopr Pitan** 1989 May–Jun;(3):37–40 (Eng. Abstr.) **(Rus)**

DEFICIENCY

Incomplete virilization and subclinical mineralocorticoid excess in a boy with partial 17,20–desmolase/17 alpha–hydroxylase deficiency. de Lange WE, et al. **Acta Endocrinol (Copenh)** 1990 Feb;122(2):263–6

Azole susceptibility and hyphal formation in a cytochrome P-450–deficient mutant of Candida albicans. Lees ND, et al. **Antimicrob Agents Chemother** 1990 May;34(5):831–6

Marked attenuation of ultradian and circadian rhythms of dehydroepiandrosterone in postmenopausal women: evidence for a reduced 17,20–desmolase enzymatic activity. Liu CH, et al. **J Clin Endocrinol Metab** 1990 Oct; 71(4):900–6

Cyclosporin toxicity at therapeutic blood levels and cytochrome P-450 IIIA. Lucey MR, et al. **Lancet** 1990 Jan 6;335(8680):11–5

Cola and cough syrup used to determine abnormal drug metabolism [news] **Oncology (Williston Park)** 1989 Nov; 3(11):111–2

Membrane fluidity alterations in a cytochrome P-450–deficient mutant of Candida albicans. Lees ND, et al. **Steroids** 1989 Mar–May;53(3–5):567–78

[The main pathogenetic mechanisms of disorders of the detoxication function of the liver in endogenous toxemia of various etiologies] Krakovskiĭ ME, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):70–6 (Eng. Abstr.) **(Rus)**

GENETICS

The human debrisoquine 4–hydroxylase (CYP2D) locus: sequence and identification of the polymorphic CYP2D6 gene, a related gene, and a pseudogene. Kimura S, et al. **Am J Hum Genet** 1989 Dec;45(6):889–904

Divergent effects of cycloheximide on the induction of class II and class III cytochrome P450 mRNAs in cultures of adult rat hepatocytes. Burger HJ, et al. **Arch Biochem Biophys** 1990 Sep;281(2):204–11

Selective detection of mRNA forms encoding the major phenobarbital inducible cytochromes P450 and other members of the P450IIB family by the RNAse A protection assay. Friedberg T, et al. **Arch Biochem Biophys** 1990 May 15;279(1):167–73

cDNA and deduced amino acid sequences of a dog hepatic cytochrome P450IIB responsible for the metabolism of 2,2',4,4',5,5'–hexachlorobiphenyl. Graves PE, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):106–15

Selective expression of cytochrome P450 isozymes by 4–n–alkyl–methylenedioxybenzenes in rat lung cells. Marcus CB, et al. **Arch Biochem Biophys** 1990 Feb 15; 277(1):17–25

Characterization of a cDNA encoding a new member of the glucocorticoid–responsive cytochromes P450 in human liver. Schuetz JD, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):355–65

Molecular cloning and expression of cDNAS encoding rat aldosterone synthase: variants of cytochrome P–450(11 beta). Matsukawa N, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):245–52

Identification of the human liver cytochrome P–450 responsible for coumarin 7–hydroxylase activity. Miles JS, et al. **Biochem J** 1990 Apr 15;267(2):365–71

Nuclease hypersensitivity of the rat cytochrome P450IA1 gene. Foldes RL, et al. **Biochem Pharmacol** 1989 Dec 15; 38(24):4425–8

The influence of ageing on the induction of the mRNAs of rat liver cytochromes P450IIB1 and P450IIB2. Horbach GJ, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):529–33

Future developments with the cytochromes P–450: promises for the applied chemical and medical sciences. Estabrook RW. **Biochem Soc Trans** 1990 Feb;18(1):34–6 (6 ref.)

The cytochrome P450 IV family: constitutive and inducible haemoproteins. Gibson GG. **Biochem Soc Trans** 1990 Feb; 18(1):14–5 (21 ref.)

Molecular mechanisms of cytochrome P–450 gene regulation. Goldfarb P. **Biochem Soc Trans** 1990 Feb;18(1):30–2 (25 ref.)

Induction of cytochrome P 450 I and its influences in chemical carcinogenesis. Ioannides C. **Biochem Soc Trans** 1990 Feb;18(1):32–4 (9 ref.)

Evolution of the P450 gene superfamily and regulation of the murine Cyp1a1 gene. Puga A, et al. **Biochem Soc Trans** 1990 Feb;18(1):7–10 (20 ref.)

Cytochrome P–450 gene expression in the common mussel Mytilus edulis. Spry JA, et al. **Biochem Soc Trans** 1989 Dec;17(6):1013–4

Mutation in cytochrome P–450–dependent 14 alpha–demethylase results in decreased affinity for azole antifungals. Vanden Bossche H, et al. **Biochem Soc Trans** 1990 Feb;18(1):56–9 (22 ref.)

Identification of rat liver cDNA sequences using a panel of monoclonal antibodies to a human P–450III form. Webster DF, et al. **Biochem Soc Trans** 1989 Dec;17(6):1024–5

Molecular genetics of the human cytochrome P–450 system. Wolf CR, et al. **Biochem Soc Trans** 1990 Feb;18(1):21–4 (9 ref.)

Structure of the rabbit cytochrome P450IIC3 gene, a constitutive member of the P450IIC subfamily. Chan G, et al. **Biochemistry** 1990 Apr 17;29(15):3743–50

Site–directed mutageneses of rat liver cytochrome P–450d: catalytic activities toward benzphetamine and 7–ethoxycoumarin. Furuya H, et al. **Biochemistry** 1989 Aug 22;28(17):6848–57

Cloning and expression of three rabbit kidney cDNAs encoding lauric acid omega–hydroxylases. Johnson EF, et al. **Biochemistry** 1990 Jan 30;29(4):873–9

Fetus–specific expression of a form of cytochrome P–450 in human livers. Komori M, et al. **Biochemistry** 1990 May 8;29(18):4430–3

The CYP2D gene subfamily: analysis of the molecular basis of the debrisoquine 4–hydroxylase deficiency in DA rats. Matsunaga E, et al. **Biochemistry** 1989 Sep 5;28(18):7349–55

The human CYP2F gene subfamily: identification of a cDNA encoding a new cytochrome P450, cDNA–directed expression, and chromosome mapping. Nhamburo PT, et al. **Biochemistry** 1990 Jun 12;29(23):5491–9

Identification of a new P450 expressed in human lung: complete cDNA sequence, cDNA–directed expression, and chromosome mapping. Nhamburo PT, et al. **Biochemistry** 1989 Oct 3;28(20):8060–6

The CYP2A3 gene product catalyzes coumarin 7–hydroxylation in human liver microsomes. Yamano S, et al. **Biochemistry** 1990 Feb 6;29(5):1322–9

cDNA cloning and sequence and cDNA–directed expression of human P450 IIB1: identification of a normal and two variant cDNAs derived from the CYP2B locus on chromosome 19 and differential expression of the IIB mRNAs in human liver. Yamano S, et al. **Biochemistry** 1989 Sep 5;28(18):7340–8

Characterization of a cDNA for the unexpressed form of cytochrome P–450g from the (–g) rat and differentiation of its mRNA from that of the (+g) phenotype using specific oligoprobes. Yeowell HN, et al. **Biochemistry** 1990 Jan 23;29(3):713–8

Molecular cloning, coding nucleotides and the deduced amino acid sequence of P–450BM–1 from Bacillus megaterium. He JS, et al. **Biochim Biophys Acta** 1989 Dec 22;1009(3):301–3

Cytochrome P450IID phenotypes and human cancer risk. Idle JR. **Cancer Detect Prev** 1989;14(2):275–80 (24 ref.)

Acquisition of aryl hydrocarbon hydroxylase inducibility by aromatic hydrocarbons in monolayer–cultured hepatocytes from nonresponsive mouse strains. Nemoto N, et al. **Cancer Res** 1990 Jun 1;50(11):3226–30

Induction and developmental expression of cytochrome P450IA1 messenger RNA in rat and human tissues: detection by the polymerase chain reaction. Omiecinski CJ, et al. **Cancer Res** 1990 Jul 15;50(14):4315–21

The expression of cytochrome P450IIB1 in Saccharomyces cerevisiae results in an increased mutation frequency when exposed to cyclophosphamide. Black SM, et al. **Carcinogenesis** 1989 Nov;10(11):2139–43

Human debrisoquine hydroxylase gene polymorphisms in cancer patients and controls. Sugimura H, et al. **Carcinogenesis** 1990 Sep;11(9):1527–30

Expression of alcohol–inducible rabbit liver cytochrome P–450 3a (P–450IIE1) in Saccharomyces cerevisiae with the copper–inducible CUP1 promoter. Fujita VS, et al. **DNA Cell Biol** 1990 Mar;9(2):111–8

Structural and regulatory analysis of a cytochrome P450 gene (CYP2C12) expressed predominantly in female rat liver. Zaphiropoulos PG, et al. **DNA Cell Biol** 1990 Jan–Feb; 9(1):49–56

Structure of 5' regions and expression of phenobarbital–inducible rabbit cytochrome P450IIC genes. Zhao J, et al. **DNA Cell Biol** 1990 Jan–Feb;9(1):37–48

cDNA–directed expression of rat P450s IIA1 and IIA2. Catalytic activities toward steroids and xenobiotics and comparison with the enzymes purified from liver. Aoyama T, et al. **Drug Metab Dispos** 1990 May–Jun;18(3):378–82

Regulatory mechanism of gene expression of methylcholanthrene–inducible cytochrome P–450. Fujii–Kuriyama Y, et al. **Drug Metab Rev** 1989; 20(2–4):821–6

Structure and regulation of P–450s in the rat P450IIA gene subfamily. Gonzalez FJ, et al. **Drug Metab Rev** 1989; 20(2–4):827–37

Regulation of cytochrome P1–450 gene expression in mouse hepatoma cells by 2,3,7,8–tetrachlorodibenzo–p–dioxin. Whitlock JP Jr, et al. **Drug Metab Rev** 1989;20(2–4):839–46

The amino–terminal structures that determine topological orientation of cytochrome P–450 in microsomal membrane. Sato T, et al. **EMBO J** 1990 Aug;9(8):2391–7

Signalling elements in the ultradian rhythm of circulating growth hormone regulating expression of sex–dependent forms of hepatic cytochrome P450. Shapiro BH, et al. **Endocrinology** 1989 Dec;125(6):2935–44

cDNA cloning of cytochrome P–450 related to P–450p–2 from the cDNA library of human placenta. Gene structure and expression. Yokotani N, et al. **Eur J Biochem** 1990 Jan 12;187(1):23–9

Establishment of mouse and rat hepatoma cell clones showing stable expression of rabbit cytochrome P450 IA2. Corcos L, et al. **FEBS Lett** 1989 Dec 18;259(1):175–80

Molecular cloning of a cDNA encoding aldosterone synthase cytochrome P–450 in rat adrenal cortex. Imai M, et al. **FEBS Lett** 1990 Apr 24;263(2):299–302

Identification of genetically high risk individuals to lung cancer by DNA polymorphisms of the cytochrome P450IA1 gene. Kawajiri K, et al. **FEBS Lett** 1990 Apr 9;263(1):131–3

Molecular cloning and sequence analysis of cDNA encoding rat adrenal cytochrome P–450(11)beta. Nonaka Y, et al. **FEBS Lett** 1989 Sep 11;255(1):21–6

Heterogeneity within the alkane–inducible cytochrome P450 gene family of the yeast Candida tropicalis. Sanglard D, et al. **FEBS Lett** 1989 Oct 9;256(1–2):128–34

Two steroid 15 alpha–hydroxylase genes and a homologous gene family in mice. Burkhart BA, et al. **Gene** 1990 Mar 15;87(2):205–11

Alternative splicing of mRNA encoding rat liver cytochrome P450e (P450IIB2). Lacroix D, et al. **Gene** 1990 Feb 14; 86(2):201–7

Protein engineering by cDNA recombination in yeasts: shuffling of mammalian cytochrome P–450 functions. Pompon D, et al. **Gene** 1989 Nov 15;83(1):15–24

Lanosterol 14 alpha–demethylase–encoding gene: systematic analysis of homologous overexpression in Saccharomyces cerevisiae using strong yeast promoters. Weber JM, et al. **Gene** 1990 Mar 15;87(2):167–75

Close linkage of the cytochrome P450IIA gene subfamily (Cyp2a) to Cyp2b and Coh on mouse chromosome 7. Miles JS, et al. **Genomics** 1990 Jul;7(3):445–8

Long–term maintenance of the adult pattern of liver–specific expression for P–450b, P–450e, albumin and alpha–fetoprotein genes in intrasplenically transplanted hepatocytes. Maganto P, et al. **Hepatology** 1990 Apr; 11(4):585–92

Linkage relationships of the apolipoprotein C1 gene and a cytochrome P450 gene (CYP2A) to myotonic dystrophy. Walsh KV, et al. **Hum Genet** 1990 Aug;85(3):305–10

Lindane mediated induction of cytochrome P–450 mRNA in rat liver: studies with a nonradioactive cDNA probe. Dwivedi PP, et al. **Indian J Exp Biol** 1989 Aug; 27(8):729–31

Induction of cytochrome P–450 RNA by porphyrogenic agents: on the nature of the coordinate induction with delta–aminolevulinate synthase in tissues of the chicken embryo. Drew PD, et al. **Int J Biochem** 1990;22(6):607–10

Coordinate elevations of liver delta–aminolevulinate synthase and cytochrome P–450 RNA by phenobarbital in chicken embryos: the effects of heme. Ryan G, et al. **Int J Biochem** 1989;21(9):1025–31

An operon containing the genes for cholesterol oxidase and a cytochrome P–450–like protein from a Streptomyces sp. Horii M, et al. **J Bacteriol** 1990 Jul;172(7):3644–53

Genes for two herbicide–inducible cytochromes P–450 from Streptomyces griseolus. Omer CA, et al. **J Bacteriol** 1990 Jun;172(6):3335–45

Cloning and nucleotide sequences of NADH–putidaredoxin reductase gene (camA) and putidaredoxin gene (camB) involved in cytochrome P–450cam hydroxylase of Pseudomonas putida. Koga H, et al. **J Biochem (Tokyo)** 1989 Nov;106(5):831–6

Organization and function of a dioxin–responsive enhancer. Fisher JM, et al. **J Biol Chem** 1990 Jun 15;265(17):9676–81

Hormonal regulation of male–specific rat hepatic cytochrome P–450g (P–450IIC13) by androgens and the pituitary. McClellan–Green PD, et al. **J Biol Chem** 1989 Nov 15; 264(32):18960–5

Olfactory–specific cytochrome P–450 (P–450olf1; IIG1). Gene structure and developmental regulation. Nef P, et al. **J Biol Chem** 1990 Feb 15;265(5):2903–7

Characterization of the CYP2C5 gene in 21L III/J rabbits. Allelic variation affects the expression of P450IIC5. Pendurthi UR, et al. **J Biol Chem** 1990 Aug 25; 265(24):14662–8

Dexamethasone negatively regulates phenobarbitone–activated transcription but synergistically enhances cytoplasmic levels of cytochrome P–450b/e messenger RNA. Rao MV, et al. **J Biol Chem** 1990 Apr 5;265(10):5617–22

Regulation of cytochrome P–450b/e and P–450p gene expression by growth hormone in adult rat hepatocytes cultured on a reconstituted basement membrane. Schuetz EG, et al. **J Biol Chem** 1990 Jan 15;265(2):1188–92

Dexamethasone–mediated regulation of 3–methylcholanthrene–induced cytochrome P–450d mRNA accumulation in primary rat hepatocyte cultures. Silver G, et al. **J Biol Chem** 1990 Feb 25;265(6):3134–8

Two forms of omega–hydroxylase toward prostaglandin A and laurate. cDNA cloning and their expression. Yokotani N, et al. **J Biol Chem** 1989 Dec 25;264(36):21665–9

A specific cis–acting element regulates in vitro transcription of sex–dependent mouse steroid 16 alpha–hydroxylase (C–P450(16 alpha)) gene. Yoshioka H, et al. **J Biol Chem** 1990 Aug 25;265(24):14612–7

Combined 17 alpha–hydroxylase/17,20–lyase deficiency due to a 7–basepair duplication in the N–terminal region of the cytochrome P45017 alpha (CYP17) gene. Yanase T, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1325–9

The rat P450 IID subfamily: complete sequences of four closely linked genes and evidence that gene conversions maintained sequence homogeneity at the heme–binding region of the cytochrome P450 active site. Matsunaga E, et al. **J Mol Evol** 1990 Feb;30(2):155–69

Altered regulation of the cytochrome P4501A1 gene: novel

inducer-independent gene expression in pulmonary carcinoma cell lines. McLemore TL, et al. **J Natl Cancer Inst** 1989 Dec 6;81(23):1787–94

Hepatic level of mRNA in relation to polymorphism and strain difference in expression of cytochrome P-450g. Nagata K, et al. **Jpn J Pharmacol** 1989 Dec;51(4):585–8

Induction of hepatic cytochrome P450 gene expression by 2,3,7,8–tetrachlorodibenzo–p–dioxin. Whitlock JP Jr, et al. **Mol Biol Med** 1989 Apr;6(2):169–78 (56 ref.)

Mutagen activation by cDNA–expressed P(1)450, P(3)450, and P450a. Aoyama T, et al. **Mol Carcinog** 1989;1(4):253–9

Human cDNA–expressed cytochrome P450 IA2: mutagen activation and substrate specificity. Aoyama T, et al. **Mol Carcinog** 1989;2(4):192–8

2,3,7,8–Tetrachlorodibenzo–p–dioxin–inducible aryl hydrocarbon receptor–mediated change in CYP1A1 chromatin structure occurs independently of transcription. Durrin LK, et al. **Mol Cell Biol** 1989 Dec;9(12):5733–7

Functional analysis of the transcriptional promoter for the CYP1A1 gene. Jones KW, et al. **Mol Cell Biol** 1990 Oct; 10(10):5098–105

A novel cis–acting DNA element required for a high level of inducible expression of the rat P–450c gene. Yanagida A, et al. **Mol Cell Biol** 1990 Apr;10(4):1470–5

Effect of growth hormone on rat hepatic cytochrome P–450f mRNA: a new mode of regulation. Sasamura H, et al. **Mol Cell Endocrinol** 1990 Jan 2;68(1):53–60

Regulation by cyclic AMP of the genes encoding steroidogenic enzymes: when the light finally shines... Simpson ER, et al. **Mol Cell Endocrinol** 1990 Apr 17; 70(2):C25–8 (21 ref.)

Human CYP1A2: sequence, gene structure, comparison with the mouse and rat orthologous gene, and differences in liver 1A2 mRNA expression. Ikeya K, et al. **Mol Endocrinol** 1989 Sep;3(9):1399–408

Hormonal regulation of levels of the messenger RNA encoding hepatic P450 2c (IIC11), a constitutive male–specific form of cytochrome P450. Janeczko R, et al. **Mol Endocrinol** 1990 Feb;4(2):295–303

Transcriptional and posttranscriptional regulation of sexually differentiated rat liver cytochrome P–450 by growth hormone. Mode A, et al. **Mol Endocrinol** 1989 Jul; 3(7):1142–7

Pituitary regulation of the male–specific steroid 6 beta–hydroxylase P–450 2a (gene product IIIA2) in adult rat liver. Suppressive influence of growth hormone and thyroxine acting at a pretranslational leve;. Waxman DJ, et al. **Mol Endocrinol** 1990 Mar;4(3):447–54

Structural and regulatory analysis of the male–specific rat liver cytochrome P–450 g: repression by continuous growth hormone administration. Zaphiropoulos PG, et al. **Mol Endocrinol** 1990 Jan;4(1):53–8

Stable expression of rat cytochrome P–450IA1 cDNA in V79 Chinese hamster cells and their use in mutagenicity testing. Dogra S, et al. **Mol Pharmacol** 1990 May;37(5):608–13

Xbal 16– plus 9–kilobase DNA restriction fragments identify a mutant allele for debrisoquin hydroxylase: report of a family study. Evans WE, et al. **Mol Pharmacol** 1990 May; 37(5):639–42

Suppression of constitutive cytochrome P–450 gene expression in livers of rats undergoing an acute phase response to endotoxin. Morgan ET. **Mol Pharmacol** 1989 Nov;36(5):699–707

P450IIB gene expression in rat small intestine: cloning of intestinal P450IIB1 mRNA using the polymerase chain reaction and transcriptional regulation of induction. Traber PG, et al. **Mol Pharmacol** 1990 Jun;37(6):810–9

A cycloheximide–inducible gene of Neurospora crassa belongs to the cytochrome P–450 superfamily. Attar RM, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7535–6

Sequence and gene expression of rabbit cytochrome P450 IIC16: comparison to highly related family members. Hassett C, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1429–34

PstI polymorphism at the human P1450 gene on chromosome 15. Haugen A, et al. **Nucleic Acids Res** 1990 May 25; 18(10):3114

Glucocorticoid regulation of a phenobarbital–inducible cytochrome P–450 gene: the presence of a functional glucocorticoid response element in the 5'–flanking region of the CYP2B2 gene. Jaiswal AK, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4237–42

An XmnI RFLP detected with a probe for the CYP2E gene locus on chromosome 10. Kelsell DP, et al. **Nucleic Acids Res** 1990 May 25;18(10):3111

Alternative splicing in the human cytochrome P450IIB6 gene: use of a cryptic exon within intron 3 and splice acceptor site within exon 4. Miles JS, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):189

Alternative splicing in the human cytochrome P450IIB6 gene generates a high level of aberrant messages. Miles JS, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8241–55

cDNA and deduced amino acid sequences of a male dominant P–450Md mRNA in rats. Nagata K, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4934

Molecular genetics of the P–450 superfamily. Gonzalez FJ. **Pharmacol Ther** 1990;45(1):1–38 (312 ref.)

Five of 12 forms of vaccinia virus–expressed human hepatic cytochrome P450 metabolically activate aflatoxin B1. Aoyama T, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4790–3

Sequence analysis of ripening–related cytochrome P–450 cDNAs from avocado fruit. Bozak KR, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3904–8

Cell–specific induction of mouse Cyp1a1 mRNA during development. Dey A, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7446–50

The development of a panel of human cell lines expressing specific human cytochrome P450 cDNAs. Crespi CL, et al. **Prog Clin Biol Res** 1990;340B:97–106

Transfection of cytochrome P450 cDNAs into mammalian cells used in mutation and transformation assays. Langenbach R, et al. **Prog Clin Biol Res** 1990;340D:239–48

Complementary DNA sequence of 3–methylcholanthrene–inducible P–450 from the rat lung. Kikuchi H, et al. **Tohoku J Exp Med** 1990 Apr; 160(4):323–32

Evolution of the P450 gene superfamily: animal–plant 'warfare', molecular drive and human genetic differences in drug oxidation. Gonzalez FJ, et al. **Trends Genet** 1990 Jun;6(6):182–6 (37 ref.)

Polymorphism of cytochrome P–450 in humans. Guengerich FP. **Trends Pharmacol Sci** 1989 Mar;10(3):107–9 (25 ref.)

Comparative aspects of the mammalian cytochrome P450 IV gene family. Gibson GG. **Xenobiotica** 1989 Oct; 19(10):1123–48 (66 ref.)

Evolution of the cytochrome P450 genes. Nebert DW, et al. **Xenobiotica** 1989 Oct;19(10):1149–60 (55 ref.)

Cytochromes P–450 of sea birds: cross–reactivity studies with purified rat cytochromes. Ronis MJ, et al. **Xenobiotica** 1989 Oct;19(10):1167–73

[Gene structure and gene expression regulation of cytochrome P–450 related to steroidogenesis] Inano H, et al. **Nippon Rinsho** 1989 Oct;47(10):2277–86 **(Jpn)**

[Structural organization and localization of cytochromes P450 in the membrane] Tret'iakov VE, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1321–31 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Identification of cytochrome P450IA2 as a human autoantigen. Manns MP, et al. **Arch Biochem Biophys** 1990 Jul;280(1):229–32

Synthetic peptide antigens elicit monoclonal and polyclonal antibodies to cytochrome P450 IA2. Myers MJ, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):171–6

Antibodies against rabbit omega–hydroxylases of prostaglandins and fatty acids cross–react with leukotriene B4 omega–hydroxylase in human neutrophils (cytochrome P–450LTB omega). Sumimoto H, et al. **Biochem Int** 1990; 20(2):381–7

An anti–peptide antibody targeted to a specific region of rat cytochrome P–450IA2 inhibits enzyme activity. Edwards RJ, et al. **Biochem J** 1990 Mar 1;266(2):497–504

Inhibition of cholesterol 7 alpha–hydroxylase by an antibody to a male–specific form of cytochrome P–450 from subfamily P450IIC. Eldredge ER, et al. **Biochem J** 1989 Aug 15;262(1):91–5

Identification of surface regions of cytochromes P–450 using anti–peptide antibodies. Edwards RJ, et al. **Biochem Soc Trans** 1989 Dec;17(6):1022–3

Sensitivity of the rat liver microsomal oxidation of pyrazole to antibody raised against the ethanol–inducible rabbit liver cytochrome P–450 isozyme. Clejan LA, et al. **Drug Metab Dispos** 1989 Nov–Dec;17(6):694–8

Patients with type II autoimmune hepatitis express functionally intact cytochrome P–450 db1 that is inhibited by LKM–1 autoantibodies in vitro but not in vivo. Manns M, et al. **Hepatology** 1990 Jul;12(1):127–32

Distributional variation of P–450 immunoreactive hepatocytes in human liver disorders. Sano K, et al. **Hum Pathol** 1989 Oct;20(10):1015–20

Anti–liver endoplasmic reticulum autoantibodies are directed against human cytochrome P–450IA2. A specific marker of dihydralazine–induced hepatitis. Bourdi M, et al. **J Clin Invest** 1990 Jun;85(6):1967–73

Estrogen synthetase (aromatase) Affinity purification of antibody against the cytochrome P450 component. Sethumadhavan K, et al. **J Steroid Biochem** 1990 Jul 4; 36(4):295–9

ISOLATION & PURIFICATION

Purification and characterization of an anticonvulsant–induced human cytochrome P–450 catalysing cyclosporin metabolism. Shaw PM, et al. **Biochem J** 1989 Nov 1;263(3):653–63

Isolation of four forms of acetone–induced cytochrome P–450 in chicken liver by h.p.l.c. and their enzymic characterization. Sinclair JF, et al. **Biochem J** 1990 Jul 1; 269(1):85–91

Isolation of insecticide resistance–related forms of cytochrome P–450 from Drosophila melanogaster. Sundseth SS, et al. **Biochem J** 1990 Jan 1;265(1):213–7

Purification of a sheep liver cytochrome P–450 from the P450IIIA gene subfamily. Its contribution to the N–dealkylation of veterinary drugs. Pineau T, et al. **Biochem Pharmacol** 1990 Mar 1;39(5):901–9

A phenobarbital–inducible hepatic mitochondrial cytochrome P–450 immunochemically related to microsomal P–450b. Shayiq RM, et al. **Biochemistry** 1990 Jan 30;29(4):866–73

Purification and characterization of a hepatic mitochondrial cytochrome P–450 active in aflatoxin B1 metabolism. Shayiq RM, et al. **Biochemistry** 1989 Sep 19;28(19):7546–54

Isolation and partial characterization of a cytochrome P–450 isoenzyme (cytochrome P–450tu) from mouse liver tumors. Lange R, et al. **Biochim Biophys Acta** 1990 Mar 29; 1038(1):130–5

Avian kidney mitochondrial hemeprotein P–4501 alpha: isolation, characterization and NADPH–ferredoxin reductase–dependent activity. Mandel ML, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):239–46

Immunological characterization of constitutive isozymes of cytochrome P–450 from rainbow trout. Evidence for homology with phenobarbital–induced rat P–450s. Miranda CL, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):155–60

Characterization of a novel cytochrome P450 from the transformable cell line, C3H/10T1/2. Pottenger LH, et al. **Carcinogenesis** 1990 Feb;11(2):321–7

Resolution of rabbit liver cytochrome P450 3b and 3c (P450 IIC3 and IIIA4) from microsomal membrane by two–dimensional gel electrophoresis. Bonfils C, et al. **Electrophoresis** 1990 Feb;11(2):182–6

Purification and characterization of cytochrome P–450sca from Streptomyces carbophilus. ML–236B (compactin) induces a cytochrome P–450sca in Streptomyces carbophilus that hydroxylates ML–236B to pravastatin sodium (CS–514), a tissue–selective inhibitor of 3–hydroxy–3–methylglutaryl–coenzyme–A reductase. Matsuoka T, et al. **Eur J Biochem** 1989 Oct 1;184(3):707–13

Purification and characterization of hepatic microsomal prostaglandin omega–hydroxylase cytochrome P–450 from pregnant rabbits. Kikuta Y, et al. **J Biochem (Tokyo)** 1989 Sep;106(3):468–73

Purification and characterization of two forms of cytochrome P–450 with omega–hydroxylase activities toward prostaglandin A and fatty acids from rabbit liver microsomes. Kikuta Y, et al. **J Biochem (Tokyo)** 1990 Feb; 107(2):280–6

Purification and characterization of two forms of 2,3,4,7,8–pentachlorodibenzofuran–inducible cytochrome P–450 in hamster liver. Koga N, et al. **J Biochem (Tokyo)** 1990 Jun;107(6):826–33

Isolation of a new form of cytochrome P–450 with prostaglandin A and fatty acid omega–hydroxylase activities from rabbit kidney cortex microsomes. Kusunose E, et al. **J Biochem (Tokyo)** 1989 Aug;106(2):194–6

Purification and characterization of four catalytically active testosterone 6 beta–hydroxylase P–450s from rat liver microsomes: comparison of a novel form with three structurally and functionally related forms. Nagata K, et al. **J Biochem (Tokyo)** 1990 May;107(5):718–25

Peroxidase, an alternate pathway to cytochrome P–450 for xenobiotic metabolism in skin: partial purification and properties of the enzyme from neonatal rat skin. Strohm BH, et al. **J Biochem Toxicol** 1986 Dec;1(4):83–97

Purification and characterization of hepatic microsomal cytochrome P–450. Ryan DE, et al. **Pharmacol Ther** 1990; 45(2):153–239 (439 ref.)

Human liver cytochrome P–450 related to a rat acetone–inducible, nitrosamine–metabolizing cytochrome P–450: identification and isolation. Robinson RC, et al. **Pharmacology** 1989;39(3):137–44

METABOLISM

Increased activity of ovarian thecal cytochrome P450(17 alpha) in the hamster induced by endogenous LH. Johnson DC, et al. **Acta Endocrinol (Copenh)** 1989 Sep;121(3):374–82

"In vitro" cyclosporin and methylprednisolone interaction with cytochrome P–450. Fracasso ME, et al. **Acta Physiol Hung** 1990;75 Suppl:111–2

Effect of triiodothyronine in the regulation of haem biosynthetic pathway. Kleiman de Pisarev DL, et al. **Acta Physiol Pharmacol Latinoam** 1988;38(3):301–8

Paroxetine: lack of effect on hepatic drug metabolizing enzymes. Haddock RE, et al. **Acta Psychiatr Scand Suppl** 1989;350:93–4

The renal cytochrome P450 system generates novel arachidonic acid metabolites. Schwartzman M, et al. **Adv Exp Med Biol** 1989;259:109–29 (67 ref.)

Novel eicosanoids generated by cytochrome P450: effects on platelet aggregation and protein phosphorylation. Malcolm K, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:87–94

Modification of arachidonic acid metabolism via the cytochrome P450–related monooxygenase system. Schwartzman ML. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:241–9 (26 ref.)

Cytochrome P–450 metabolic–intermediate complex formation with a series of diphenhydramine analogues. Bast A, et al. **Agents Actions** 1990 Apr;30(1–2):161–5

Prenatal ethanol exposure alters steroidogenic enzyme activity in newborn rat testes. Kelce WR, et al. **Alcoholism (N Y)** 1989 Oct;13(5):617–21

Cytochrome P–450 arachidonate metabolites in rat kidney: characterization and hemodynamic responses. Takahashi K, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F781–9

Binding of substrates to cytochrome P450 enzymes: mathematical artifacts in the application of difference spectrophotometry. Narasimhulu S. **Anal Biochem** 1990 May 15;187(1):166–72

Preparation of brain microsomes with cytochrome P450 activity using calcium aggregation method. Ravindranath

V, et al. **Anal Biochem** 1990 Jun;187(2):310–3
Sensitive assay of cytochrome P450scc activity by high–performance liquid chromatography. Sugano S, et al. **Anal Biochem** 1989 Nov 1;182(2):327–33
Induction potential of fluconazole toward drug–metabolizing enzymes in rats. Lavrijsen KL, et al. **Antimicrob Agents Chemother** 1990 Mar;34(3):402–8
Novel exogenous heme–dependent expression of mammalian cytochrome P450 using baculovirus. Asseffa A, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):481–90
Reconstitution of testosterone oxidation by purified rat cytochrome P450p (IIIA1). Halvorson M, et al. **Arch Biochem Biophys** 1990 Feb 15;277(1):166–80
Changes in the amount of cytochrome P450s in rat hepatic microsomes with starvation. Imaoka S, et al. **Arch Biochem Biophys** 1990 Apr;278(1):168–78
Characterization of three cytochrome P450s purified from renal microsomes of untreated male rats and comparison with human renal cytochrome P450. Imaoka S, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):473–80
The dopamine transporter and cytochrome P45OIID1 (debrisoquine 4–hydroxylase) in brain: resolution and identification of two distinct [3H]GBR–12935 binding proteins. Niznik HB, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):424–32
Developmental regulation of hepatic testosterone hydroxylases: simultaneous activation and repression of constitutively expressed cytochromes P450 in senescent rats. Robinson RC, et al. **Arch Biochem Biophys** 1990 Feb 15;277(1):42–6
Possible involvement of arachidonic acid metabolites of cytochrome P450 monooxygenase pathway in vasopressin–stimulated glycogenolysis in isolated rat hepatocytes. Yoshida S, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):346–51
Activity of aldrinepoxidase, 7–ethoxycoumarin–O–deethylase and 7–ethoxyresorufin–O–deethylase during the development of chick embryos in ovo. Heinrich–Hirsch B, et al. **Arch Toxicol** 1990;64(2):128–34
Phosphorylation of cytochrome P450 isoenzymes in intact hepatocytes and its importance for their function in metabolic processes. Oesch–Bartlomowicz B, et al. **Arch Toxicol** 1990;64(4):257–61 (29 ref.)
Modification of drug metabolic processes by compounds which intervene with the function of cytochrome P–450 as a mono–oxygenase and as an oxidase. Tani E, et al. **Arzneimittelforschung** 1989 Nov;39(11):1399–402
The steroid antagonist RU38486 is metabolized by the liver microsomal P450 mono–oxygenases. Chasserot–Golaz S, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1271–8
Oxidation of 5 beta–cholestane–3 alpha,7 alpha, 12 alpha–triol into 3 alpha,7 alpha,12 alpha–trihydroxy–5 beta–cholestanoic acid by cytochrome P–450(26) from rabbit liver mitochondria. Dahlbäck H, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):391–5
Cytochrome P–450 dependent monooxygenases in neuronal and glial cells: inducibility and specificity. Dhawan A, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):441–7
Phenytoin 4–hydroxylation by rabbit liver P450IIC3 and identification of orthologs in human liver microsomes. Doecke CJ, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):860–6
Regional and subcellular distribution of cytochrome P–450–dependent drug metabolism in monkey brain: the olfactory bulb and the mitochondrial fraction have high levels of activity. Iscan M, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):858–63
Regiospecificity in the hydroxylation of lauric acid by rainbow trout hepatic cytochrome P450 isozymes. Miranda CL, et al. **Biochem Biophys Res Commun** 1990 Sep 14; 171(2):537–42
A possible role of cAMP dependent phosphorylation of hepatic microsomal cytochrome P450: a mechanism to increase lipid peroxidation in response to hormone. Mkrtchian SL, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):787–93
Separation of the cytochromes P–450 in pig kidney mitochondria catalyzing 1 alpha–, 24– and 26–hydroxylations of 25–hydroxyvitamin D3. Postlind H. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):261–6
Evidence for complexation of P–450 IIC6 by an orphenadrine metabolite. Reidy GF, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):772–9
Activation of promutagenic chemicals by Streptomyces griseus containing cytochrome P–450soy. Sariaslani FS, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):743–9
Cytochrome P–450–catalyzed formation of 20–hydroxy–ecdysone in larval housefly mitochondria. Srivatsan J, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1372–7
Effect of interleukin 1 (IL–1) on the levels of cytochrome P–450 involving IL–1 receptor on the isolated hepatocytes of rat. Sujita K, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):1217–22
Replacing the carboxy–terminal 28 residues of rabbit liver P–450 (laurate (omega–1)–hydroxylase) with those of P–450 (testosterone 16 alpha–hydroxylase) produces a new stereospecific hydroxylase activity. Uno T, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):498–503
Rabbit nasal cytochrome P–450 NMa has high activity as a nicotine oxidase. Williams DE, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):945–52
Differences in the cytochrome P–450 isoenzymes involved in the 2–hydroxylation of oestradiol and 17 alpha–ethinyloestradiol. Relative activities of rat and human liver enzymes. Ball SE, et al. **Biochem J** 1990 Apr 1;267(1):221–6
Induction of cytochrome P–450 in cultured rat hepatocytes. The heterogeneous localization of specific isoenzymes using immunocytochemistry. Bars RG, et al. **Biochem J** 1989 Aug 15;262(1):151–8
Characterization of pig kidney microsomal cytochrome P–450 catalysing 25–hydroxylation of vitamin D3 and C27 steroids. Bergman T, et al. **Biochem J** 1990 Sep 1; 270(2):345–50
Testosterone–mediated regulation of mouse renal cytochrome P–450 isoenzymes. Henderson CJ, et al. **Biochem J** 1990 Mar 15;266(3):675–81
Inhibition of uroporphyrinogen decarboxylase activity. The role of cytochrome P–450–mediated uroporphyrinogen oxidation. Lambrecht RW, et al. **Biochem J** 1990 Jul 15; 269(2):437–41
High activity of cytochrome P–450–linked aminopyrine N–demethylase in mouse brain microsomes, and associated sex–related difference. Ravindranath V, et al. **Biochem J** 1989 Aug 1;261(3):769–73
Participation of two structurally related enzymes in rat hepatic microsomal androstenedione 7 alpha–hydroxylation. Waxman DJ, et al. **Biochem J** 1990 Jan 1;265(1):187–94
In vivo effects of erythromycin, oleandomycin and erythralosamine derivatives on hepatic cytochrome P–450. Delaforge M, et al. **Biochem Pharmacol** 1990 Jul 15; 40(2):223–8
Inhibition of microsomal lipid peroxidation and cytochrome P–450–catalyzed reactions by beta–lapachone and related naphthoquinones. Dubin M, et al. **Biochem Pharmacol** 1990 Apr 1;39(7):1151–60
Metabolism of fluperlapine by cytochrome P450–dependent and flavin–dependent monooxygenases in continuous cultures of rat and human cells. Fischer V, et al. **Biochem Pharmacol** 1990 Apr 15;39(8):1327–33
Evaluation of the involvement of a male specific cytochrome P–450 isozyme in senescence–associated decline of hepatic drug metabolism in male rats. Fujita S, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):3925–31
Absence of an isotope effect in induction of cytochrome P–450 and xenobiotic metabolizing enzyme activities by stable isotope–labelled phenobarbital isotopomers. Genty E, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3885–7
Cellular localization of cytochrome(s) P–450 metabolizing polycyclic aromatic hydrocarbons in the rat adrenal cortex. Hallberg E, et al. **Biochem Pharmacol** 1990 Mar 15; 39(6):1029–37
The in vivo induction of rat hepatic cytochrome P450–dependent enzyme activities and their maintenance in culture. Hammond AH, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):637–42
Effects of cytochrome P–450 monooxygenase inducers on mouse hepatic microsomal metabolism of testosterone and alkoxyresorufins. Kelley M, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1991–8
Metabolic activation of the new tricyclic antidepressant tianeptine by human liver cytochrome P450. Larrey D, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):545–50
Metabolism of fusarin C by rat liver microsomes. Role of esterase and cytochrome P–450 enzymes with respect to the mutagenicity of fusarin C in Salmonella typhimurium. Lu SJ, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3811–7
Characterization of the hepatic responses to the short–term administration of ciprofibrate in several rat strain. Co–induction of microsomal cytochrome P–450 IVA1 and peroxisome proliferation. Makowska JM, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1083–93
A model of cytochrome P–450–centered hepatic dysfunction in drug metabolism induced by cobalt–protoporphyrin administration. Muhoberac BB, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4103–13
Monoclonal antibody–directed characterization of benzene, ethoxyresorufin and pentoxyresorufin metabolism in rat liver microsomes. Nakajima T, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1255–61
Hydroxylation of the thiophene ring by hepatic monooxygenases. Evidence for 5–hydroxylation of 2–aroylthiophenes as a general metabolic pathway using a simple UV–visible assay. Neau E, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1101–7
Metabolism of a novel nitrosourea, tauromustine, in the rat. Seidegård J, et al. **Biochem Pharmacol** 1990 May 1; 39(9):1431–6
High affinity phenacetin O–deethylase is catalysed specifically by cytochrome P450d (P450IA2) in the liver of the rat. Sesardic D, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):489–98
The inducibility and catalytic activity of cytochromes P450c (P450IA1) and P450d (P450IA2) in rat tissues. Sesardic D, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):499–506
Lipid peroxidation caused by hyperthermic perfusion of rat liver. Skibba JL, et al. **Biochem Pharmacol** 1990 Sep 15; 40(6):1411–4
NAD(P)H: quinone oxidoreductase (DT–diaphorase) in chick embryo liver. Comparison to activity in rat and guinea pig liver and differences in co–induction with 7–ethoxyresorufin deethylase by 2,3,7,8–tetrachlorodibenzo–p–dioxin. Spencer CB, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):327–35
Desulfuration of the insecticide parathion by human placenta in vitro. Sultatos LG, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):799–801
Oxidation of glycerol to formaldehyde by rat liver microsomes. Effects of cytochrome P–450 inducing agents. Winters DK, et al. **Biochem Pharmacol** 1990 Feb 15; 39(4):697–705
Modulation of the induction of rat hepatic cytochromes P–450 by selenium deficiency. Wrighton SA, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3767–71
Immunodetection, immunoinhibition, immunoquantitation and biochemical analyses of cytochrome P–450IA1 in tissues of the ratoffceptus during the progression of organogenesis. Yang HY, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4027–36
Effects of thiamine deficiency on hepatic cytochromes P450 and drug–metabolizing enzyme activities. Yoo JS, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):519–25
Metabolic activation of 7,12–dimethylbenz(a)anthracene: role of cytochrome P–450 isoenzymes in the formation of DNA and protein adducts in vitro. Cusack M, et al. **Biochem Soc Trans** 1989 Dec;17(6):1014–5
Interindividual variation in the expression of human cytochrome P–450III forms. Doostdar H, et al. **Biochem Soc Trans** 1989 Dec;17(6):1027
Cytochrome P–450 and oxidative metabolism in invertebrates. Livingstone DR. **Biochem Soc Trans** 1990 Feb;18(1):15–9 (71 ref.)
Ontogeny of expression, inducibility and distribution of cytochromes P–450 forms 4 and 6 in rabbit liver. Rich KJ, et al. **Biochem Soc Trans** 1989 Dec;17(6):1023–4
Cytochrome P–450 in the brain. Strömstedt M, et al. **Biochem Soc Trans** 1990 Feb;18(1):28–30
From 14 alpha–demethylase inhibitors in fungal cells to androgen and oestrogen biosynthesis inhibitors in mammalian cells. Vanden Bossche H, et al. **Biochem Soc Trans** 1990 Feb;18(1):10–3 (32 ref.)
Cholesterol metabolism by purified cytochrome P–450scc is highly stimulated by octyl glucoside and stearic acid exclusively in large unilamellar phospholipid vesicles. Dhariwal MS, et al. **Biochemistry** 1989 Oct 17; 28(21):8397–402
Isotopically labeled chlorobenzenes as probes for the mechanism of cytochrome P–450 catalyzed aromatic hydroxylation. Korzekwa KR, et al. **Biochemistry** 1989 Nov 14;28(23):9019–27
Crystal structure of the carbon monoxide–substrate–cytochrome P–450CAM ternary complex. Raag R, et al. **Biochemistry** 1989 Sep 19; 28(19):7586–92
The 3–hydroxy group of lanosterol is essential for orienting the substrate site of cytochrome P–450(14DM) (lanosterol 14 alpha– demethylase). Aoyama Y, et al. **Biochim Biophys Acta** 1989 Nov 28;1006(2):209–13
Oxidation of pyrazole by reconstituted systems containing cytochrome P–450 IIE1. Clejan LA, et al. **Biochim Biophys Acta** 1990 May 16;1034(2):233–7
Resonance Raman study on mutant cytochrome P–450 obtained by site–directed mutagenesis. Egawa T, et al. **Biochim Biophys Acta** 1990 Sep 3;1040(2):211–6
Differential action of thyroid hormones and chemically related compounds on the activity of UDP–glucuronosyltransferases and cytochrome P–450 isozymes in rat liver. Goudonnet H, et al. **Biochim Biophys Acta** 1990 Jul 20;1035(1):12–9
Cytochrome P–450 involvement in the NADPH–dependent lipid peroxidation in human placental mitochondria. Klimek J. **Biochim Biophys Acta** 1990 May 1;1044(1):158–64
Steroidogenesis in liposomal system containing adrenal microsomal cytochrome P–450 electron transfer components. Kominami S, et al. **Biochim Biophys Acta** 1989 Nov 3;985(3):293–9
A nuclear magnetic resonance study of axial ligation for the reduced states of chloroperoxidase, cytochrome P–450cam, and porphinatoiron(II) thiolate complexes. Lukat GS, et al. **Biochim Biophys Acta** 1990 Mar 1;1037(3):351–9
Omega– and (omega–1)–hydroxylation of arachidonic acid, lauric acid and prostaglandin A1 by multiple forms of cytochrome P–450 purified from rat hepatic microsomes. Tanaka S, et al. **Biochim Biophys Acta** 1990 Apr 2; 1043(2):177–81
Non–sterol structural probes of the lanosterol 14 alpha–demethylase from Saccharomyces cerevisiae. Wright GD, et al. **Biochim Biophys Acta** 1990 Aug 1; 1040(1):95–101
Regulation of prostaglandin endoperoxide synthase by cyclic adenosine 3',5'–monophosphate in the in vitro–perfused rat ovary. Brännström M, et al. **Biol Reprod** 1989 Sep; 41(3):513–21
Hormonal regulation of cytochrome P450 enzymes, cholesterol side–chain cleavage and 17 alpha–hydroxylase/C17–20 lyase in Leydig cells. Payne AH. **Biol Reprod** 1990 Mar;42(3):399–404 (40 ref.)
Simulation of the hepatic metabolism of stilbene and its tricyclic derivatives by Fenton and Ruff reagents: models for cytochrome P–450 activation of chemical carcinogens. Zbaida S, et al. **Biopharm Drug Dispos** 1990 Jan–Feb; 11(1):39–51

Presence of sex difference of cytochrome P-450 in the rat preoptic area and hypothalamus with reference to coexistence with oxytocin. Hagihara K, et al. **Brain Res** 1990 May 7;515(1-2):69-78

Xenobiotic metabolism in human brain--presence of cytochrome P-450 and associated mono-oxygenases. Ravindranath V, et al. **Brain Res** 1989 Sep 4;496(1-2):331-5

Effects of the environmental pollutants on heme oxygenase activity and cytochrome P-450 content in fish. Ariyoshi T, et al. **Bull Environ Contam Toxicol** 1990 Feb; 44(2):189-96

The regulation of cytochrome P-450 isozymes important in the metabolism of endogenous substrates. Symposium of the Canadian Federation of Biological Societies. Calgary, Alberta, Canada, June 14, 1989. Proceedings. **Can J Physiol Pharmacol** 1990 Jun;68(6):657-781

Expression and catalysis of sex-specific cytochrome P450 isozymes in rat liver. Bandiera S. **Can J Physiol Pharmacol** 1990 Jun;68(6):762-8 (46 ref.)

Ductus arteriosus: involvement of a sarcolemmal cytochrome P-450 in O2 constriction? Coceani F, et al. **Can J Physiol Pharmacol** 1989 Nov;67(11):1448-50

Tissue-specific regulation of cytochrome P-450 dependent testosterone 15 alpha-hydroxylase. Squires EJ, et al. **Can J Physiol Pharmacol** 1990 Jun;68(6):769-76

Cytochrome P450 activity and distribution in the human colon mucosa. Stralka DJ, et al. **Cancer** 1989 Nov 15; 64(10):2111-6

Metabolism of and DNA adduct formation by benzo[alpha]pyrene in human skin epithelial cells in vitro pretreated with cytochrome P450 modulators. Lehman TA, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):345-52

Effect of whole-body hyperthermia on hepatic cytochrome P450. Neville AJ, et al. **Cancer Chemother Pharmacol** 1990; 25(5):342-4

BCNU-induced quantitative and qualitative changes in hepatic cytochrome P-450 can be correlated with cholestasis. Stolzenbach JC, et al. **Cancer Chemother Pharmacol** 1990;25(4):227-35

On the identity of the xenobiotic-metabolizing form(s) of cytochrome P-450 in endocrine organs. Bengtsson M, et al. **Cancer Lett** 1990 Jul 31;52(3):235-41

32P-postlabelling analysis of DNA adducts of benzo[a]pyrene formed in complex metabolic activation systems in vitro. Schoket B, et al. **Cancer Lett** 1989 Nov 15;48(1):67-75

Mutagenic activation of 2-amino-3-methylimidazo[4,5-f]quinoline by complementary DNA-expressed human liver P-450. Aoyama T, et al. **Cancer Res** 1990 Apr 1;50(7):2060-3

Role of P450IIE1 in the metabolism of 3-hydroxypyridine, a constituent of tobacco smoke: redox cycling and DNA strand scission by the metabolite 2,5-dihydroxypyridine. Kim SG, et al. **Cancer Res** 1990 Sep 1;50(17):5333-9

Metabolism of 2-acetylaminofluorene and benzo(a)pyrene and activation of food-derived heterocyclic amine mutagens by human cytochromes P-450. McManus ME, et al. **Cancer Res** 1990 Jun 1;50(11):3367-76

Roles of individual human cytochrome P-450 enzymes in the bioactivation of benzo(a)pyrene, 7,8-dihydroxy-7,8-dihydrobenzo(a)pyrene, and other dihydrodiol derivatives of polycyclic aromatic hydrocarbons. Shimada T, et al. **Cancer Res** 1989 Nov 15; 49(22):6304-12

Relative contribution of various forms of cytochrome P450 to the metabolism of benzo[a]pyrene by human liver microsomes. Hall M, et al. **Carcinogenesis** 1989 Oct; 10(10):1815-21

The metabolism of 1-nitropyrene by human cytochromes P450. Howard PC, et al. **Carcinogenesis** 1990 Sep; 11(9):1539-42

Particular cytochrome P-450-dependent steroid metabolism: a new class of mouse liver tumor markers. Lange R, et al. **Carcinogenesis** 1989 Oct;10(10):1871-7

Contribution of DNA methylation and benzylation to N-nitroso-N-benzyl-methylamine-induced mutagenesis in bacteria: effects of rat liver cytochrome P450 isozymes and glutathione transferases. Lin DX, et al. **Carcinogenesis** 1990 Sep;11(9):1653-8

Metabolic deactivation of furylfuramide by cytochrome P450 in human and rat liver microsomes. Shimada T, et al. **Carcinogenesis** 1990 Jan;11(1):103-10

Metabolism of 2-amino-1-methyl-6-phenylimidazo[4,5-b] pyridine (PhIP) by liver microsomes and isolated rabbit cytochrome P450 isozymes. Turteltaub KW, et al. **Carcinogenesis** 1990 Jun;11(6):941-6

Cytochrome P-450 monooxygenase, epoxide hydrolase and flavin monooxygenase activities in Clara cells and alveolar type II cells isolated from rabbit. Devereux TR, et al. **Cell Biol Toxicol** 1985 Jan;1(2):57-65

Reduction of hexavalent chromium in a reconstituted system of cytochrome P-450 and cytochrome b5. Mikalsen A, et al. **Chem Biol Interact** 1989;71(2-3):213-21

The maintenance of cytochrome P-450 in rat hepatocyte culture: some applications of liver cell cultures to the study of drug metabolism, toxicity and the induction of the P-450 system. Paine AJ. **Chem Biol Interact** 1990;74(1-2):1-31 (119 ref.)

Effect of chrysotile asbestos on cytochrome P-450-dependent monooxygenase and glutathione-S-transferase activities in rat lung. Rahman Q, et al. **Chem Biol Interact** 1990;75(3):305-13

Specific drug binding to rat liver cytochrome P-450 isozymes induced by pregnenolone-16 alpha-carbonitrile and macrolide antibiotics. Implications for drug interactions. Sartori E, et al. **Chem Biol Interact** 1990;73(2-3):297-307

Application of chemical P450 model systems to studies on drug metabolism. I. Phencyclidine: a multi-functional model substrate. Masumoto H, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1788-94

Application of chemical P-450 model systems to study drug metabolism. III. Metabolism of 3-isobutyryl-2-isopropylpyrazolo[1,5-alpha]pyridine. Nagatsu Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb; 38(2):400-3

Metabolism of 32-oxo-24,25-dihydrolanosterols by partially purified cytochrome P-450(14DM) from rat liver microsomes. Sonoda Y, et al. **Chem Pharm Bull (Tokyo)** 1989 Oct;37(10):2762-5

Cytochrome P-450-catalyzed asymmetric epoxidation of simple prochiral and chiral aliphatic alkenes: species dependence and effect of enzyme induction on enantioselective oxirane formation. Wistuba D, et al. **Chirality** 1989;1(2):127-36

Stereoselective interaction of an azole antifungal agent with its target, lanosterol 14 alpha-demethylase (cytochrome P-45014DM): a model study with stereoisomers of triadimenol and purified cytochrome P-45014DM from yeast. Yoshida Y, et al. **Chirality** 1990;2(1):10-5

Recent developments in hepatic drug oxidation. Implications for clinical pharmacokinetics. Brosen K. **Clin Pharmacokinet** 1990 Mar;18(3):220-39 (114 ref.)

Lidocaine metabolism in human liver microsomes by cytochrome P450IIIA4. Bargetzi MJ, et al. **Clin Pharmacol Ther** 1989 Nov;46(5):521-7

Polymorphic formation of morphine from codeine in poor and extensive metabolizers of dextromethorphan: relationship to the presence of immunoidentified cytochrome P-450IID1. Mortimer O, et al. **Clin Pharmacol Ther** 1990 Jan;47(1):27-35

Polymorphism in hydroxylation of mephenytoin and hexobarbital stereoisomers in relation to hepatic P-450 human-2. Yasumori T, et al. **Clin Pharmacol Ther** 1990 Mar;47(3):313-22

Characterization of cytochrome P-450-dependent activities in hagfish, dogfish, perch and spectacle caiman. Andersson T, et al. **Comp Biochem Physiol [B]** 1989;94(1):99-105

Effects of emulsified perfluorochemicals on liver cytochromes P-450 in rats. Armstrong FH, et al. **Comp Biochem Physiol [C]** 1989;94(1):345-9

Effects in vitro of copper and zinc on hepatic cytochrome P-450 activities. Moreno JJ, et al. **Comp Biochem Physiol [C]** 1989;93(2):355-7

Effects of phenobarbital and 3-methylcholanthrene on the hepatic cytochrome P-450 metabolism of various alkoxyresorufin ethers in the cotton rat (Sigmodon hispidus). Novak J Jr, et al. **Comp Biochem Physiol [C]** 1989;94(2):543-5

Enzymatic oxidation of xenobiotic chemicals. Guengerich FP. **Crit Rev Biochem Mol Biol** 1990;25(2):97-153 (542 ref.)

Characteristics of monooxygenase-mediated covalent binding of methoxychlor in human and rat liver microsomes. Bulger WH, et al. **Drug Metab Dispos** 1989 Sep-Oct;17(5):487-94

Metabolism of a nitrogen-containing steroid by rat hepatocytes and hepatic subcellular fractions. Kedderis GL, et al. **Drug Metab Dispos** 1989 Nov-Dec;17(6):606-11

In vitro formation of an inhibitory complex between an isosafrole metabolite and rat hepatic cytochrome P-450 PB-B. Murray M, et al. **Drug Metab Dispos** 1989 Jul-Aug; 17(4):449-54

Effect of recombinant human interleukin-1 beta and tumor necrosis factor alpha on liver cytochrome P-450 and serum alpha-1-acid glycoprotein concentrations in the rat. Poüs C, et al. **Drug Metab Dispos** 1990 Jul-Aug;18(4):467-70

Tissue, species, and substrate concentration differences in the position-selective hydroxylation of N-nitrosodibutylamine. Relationship to the distribution of cytochrome P-450 isozymes 2 (IIB) and 5 (IVB). Schulze J, et al. **Drug Metab Dispos** 1990 Jul-Aug;18(4):398-402

Effects of carbon tetrachloride administration to guinea pigs on cytochromes P-450 and antioxidant levels in the inner and outer zones of the adrenal cortex. Staats DA, et al. **Drug Metab Dispos** 1990 Jul-Aug;18(4):543-5

Tolbutamide hydroxylation by human, rabbit and rat liver microsomes and by purified forms of cytochrome P-450. Veronese ME, et al. **Drug Metab Dispos** 1990 May-Jun; 18(3):356-61

Biotransformation of lovastatin. II. In vitro metabolism by rat and mouse liver microsomes and involvement of cytochrome P-450 in dehydrogenation of lovastatin. Vyas KP, et al. **Drug Metab Dispos** 1990 Mar-Apr;18(2):218-22

The role of cytochromes P-450 and flavin-containing monooxygenase in the metabolism of (S)-nicotine by rabbit lung. Williams DE, et al. **Drug Metab Dispos** 1990 Jul-Aug; 18(4):418-28

Bioactivation and detoxication of the pyrrolizidine alkaloid senecionine by cytochrome P-450 enzymes in rat liver. Williams DE, et al. **Drug Metab Dispos** 1989 Jul-Aug; 17(4):387-92

Symposium in honor of the retirement of Professor Gilbert J. Mannering. June 13-14, 1988, Minneapolis, Minnesota. Proceedings. **Drug Metab Rev** 1989;20(2-4):153-853

Human liver mephenytoin 4'-hydroxylase cytochrome P-450 proteins and genes. Brian WR, et al. **Drug Metab Rev** 1989; 20(2-4):449-65 (22 ref.)

Degradation of rat hepatic cytochrome P-450p. Correia MA, et al. **Drug Metab Rev** 1989;20(2-4):615-28 (38 ref.)

Cytochrome P-450, reductive metabolism, and cell injury. De Groot H, et al. **Drug Metab Rev** 1989;20(2-4):275-84 (47 ref.)

Developmental aspects of P450IIIA: prenatal activity and inducibility. Hulla JE, et al. **Drug Metab Rev** 1989; 20(2-4):765-79 (58 ref.)

Structure-function relationships of cytochrome P-450 laurate (omega-1)-hydroxylase. Imai Y, et al. **Drug Metab Rev** 1989;20(2-4):467-78 (13 ref.)

The cytochrome P450 I gene family of microsomal hemoproteins and their role in the metabolic activation of chemicals. Ioannides C, et al. **Drug Metab Rev** 1990; 22(1):1-85 (513 ref.)

Warfarin as a probe of cytochromes P-450 function. Kaminsky LS. **Drug Metab Rev** 1989;20(2-4):479-87 (18 ref.)

Cytochrome P-450 membrane signals. Kemper B, et al. **Drug Metab Rev** 1989;20(2-4):811-20 (19 ref.)

The utility of p-nitrophenol hydroxylation in P450IIE1 analysis. Koop DR, et al. **Drug Metab Rev** 1989; 20(2-4):541-51 (54 ref.)

Metabolism of the B-ring of testosterone by the rat cytochrome P-450 system. Korzekwa K, et al. **Drug Metab Rev** 1989;20(2-4):535-9 (4 ref.)

Prostaglandin metabolism by hepatic cytochrome P-450. Kupfer D, et al. **Drug Metab Rev** 1989;20(2-4):753-64 (39 ref.)

Radical intermediates in the cytochrome P-450-catalyzed oxidation of aliphatic hydrocarbons. Ortiz de Montellano PR, et al. **Drug Metab Rev** 1989;20(2-4):183-91 (25 ref.)

Physiological and pathophysiological alterations in rat hepatic cytochrome P-450. Schenkman JB, et al. **Drug Metab Rev** 1989;20(2-4):557-84

Cytochrome P-450: cytochrome P-450 reductase interactions. Strobel HW, et al. **Drug Metab Rev** 1989; 20(2-4):519-33 (23 ref.)

Mechanistic aspects of cytochrome P-450-hydroperoxide interactions: substituent effects on degradative pathways. Thompson JA, et al. **Drug Metab Rev** 1989;20(2-4):365-78 (19 ref.)

Stereochemistry of cytochrome P-450 reactions. Trager WF. **Drug Metab Rev** 1989;20(2-4):489-96 (5 ref.)

Cytochrome P-450 and FAD-monooxygenase mediated S- and N-oxygenations. Damani LA, et al. **Drug Metabol Drug Interact** 1988;6(3-4):235-44 (18 ref.)

Phosphorylation of hepatic phenobarbital-inducible cytochrome P-450. Pyerin W, et al. **EMBO J** 1989 Oct; 8(10):3003-10

Estradiol metabolism by complementary deoxyribonucleic acid-expressed human cytochrome P450s. Aoyama T, et al. **Endocrinology** 1990 Jun;126(6):3101-6

Regulation of cholesterol side-chain cleavage and 17 alpha-hydroxylase/lyase activities in proliferating human theca interna cells in long term monolayer culture. McAllister JM, et al. **Endocrinology** 1989 Oct; 125(4):1959-66

Depletion of serum growth hormone in adult female rats by neonatal monosodium glutamate treatment without loss of female-specific hepatic enzymes P450 2d (IIC12) and steroid 5 alpha-reductase. Waxman DJ, et al. **Endocrinology** 1990 Feb;126(2):712-20

Influence of some anti-inflammatory drugs on the activity of aryl hydrocarbon hydroxylase and the cytochrome P450 content. Mostafa MH, et al. **Environ Res** 1990 Jun; 52(1):77-82

Polychlorinated biphenyls increase fatty acid desaturation in the proliferating endoplasmic reticulum of pigeon and rat livers. Borlakoglu JT, et al. **Eur J Biochem** 1990 Mar 10; 188(2):327-32

Chemical model systems for drug-metabolizing cytochrome-P-450-dependent monooxygenases. Mansuy D, et al. **Eur J Biochem** 1989 Sep 15;184(2):267-85 (128 ref.)

Modulation of cytochrome P450 isozymes in human liver, by ethanol and drug intake. Perrot N, et al. **Eur J Clin Invest** 1989 Dec;19(6):549-55

Dependence of hydrogen peroxide formation in rat liver microsomes on the molecular structure of cytochrome P-450 substrates: a study with barbiturates and beta-adrenoceptor antagonists. Bast A, et al. **Eur J Drug Metab Pharmacokinet** 1989 Apr-Jun; 14(2):93-100

Hepatic microsomal cytochrome P450 system during experimental hookworm infection. Tekwani BL, et al. **Exp Mol Pathol** 1990 Jun;52(3):330-9

Correlations between hepatic monooxygenase system and glycogen storage. Kulcsár A, et al. **Exp Pathol** 1990; 38(3):171-5

Mechanisms of cytochrome P-450 catalysis. Guengerich FP, et al. **FASEB J** 1990 May;4(8):2453-9 (43 ref.)

Arachidonic acid epoxygenase. Stereochemical analysis of the endogenous epoxyeicosatrienoic acids of human kidney cortex. Karara A, et al. **FEBS Lett** 1990 Jul 30; 268(1):227-30

Inactivation of the uterine estrogen receptor binding of estradiol during P-450 catalyzed metabolism of chlorotrianisene (TACE). Speculation that TACE antiestrogenic activity involves covalent binding to the

estrogen receptor. Kupfer D, et al. **FEBS Lett** 1990 Feb 12;261(1):59–62
Mutagen excretion and cytochrome P-450-dependent activity in germfree and conventional rats fed a diet containing fried meat. Overvik E, et al. **Food Chem Toxicol** 1990 Apr;28(4):253–61
Microsomal lipid peroxidation: the role of NADPH—cytochrome P450 reductase and cytochrome P450. Sevanian A, et al. **Free Radic Biol Med** 1990; 8(2):145–52
Presence of functional cytochrome P-450 on isolated rat hepatocyte plasma membrane. Loeper J, et al. **Hepatology** 1990 May;11(5):850–8
Immunocytochemical and biochemical studies on the localization and changes of 17 alpha-hydroxylase/C17-C20 lyase activity in immature rat ovary treated with PMSG and hCG. Ishimura K, et al. **Histochemistry** 1990; 94(3):225–9
A comparative study of drug metabolizing enzymes in adrenal glands and livers of rats and chickens. Gay L, et al. **Int J Biochem** 1990;22(1):15–8
Lung cytochrome P450-dependent benzyloxyphenoxazone debenzylase and ethoxyphenoxazone deethylase activities in total microsomal and isolated alveolar type II cells: responses to changes in assay conditions with special reference to non-linear dependence at low enzyme concentration. Rabovsky J, et al. **Int J Biochem** 1990; 22(2):171–7
Effect of endotoxin to differentially affect cytochrome P-450 monooxygenase activities of untreated rats and animals induced with phenobarbital or 3-methylcholanthrene. Coto JA, et al. **Int J Immunopharmacol** 1989;11(6):623–8
Effects of capsaicin and ethanol on hepatic drug-metabolizing enzymes in rat. Iwama M, et al. **Int J Vitam Nutr Res** 1990;60(1):100–3
Purification and characterization of two forms of cytochrome P-450 with omega-hydroxylase activities toward prostaglandin A and fatty acids from rabbit liver microsomes. Kikuta Y, et al. **J Biochem (Tokyo)** 1990 Feb; 107(2):280–6
Isolation of a new form of cytochrome P-450 with prostaglandin A and fatty acid omega-hydroxylase activities from rabbit kidney cortex microsomes. Kusunose E, et al. **J Biochem (Tokyo)** 1989 Aug;106(2):194–6
Identification of regions functioning in substrate interaction of rabbit liver cytochrome P-450 (laurate (omega-1)-hydroxylase). Uno T, et al. **J Biochem (Tokyo)** 1989 Oct;106(4):569–74
Adverse reactions of imidazole antifungal agents: computer graphic studies of cytochrome P-450 interactions. Lewis DF, et al. **J Biochem Toxicol** 1989 Winter;4(4):231–4
Induction of cytochrome P-450 isozymes by hexachlorobenzene in rats and aromatic hydrocarbon (Ah)-responsive mice. Linko P, et al. **J Biochem Toxicol** 1986 Jun;1(2):95–107
Cytochrome P-450-mediated denitrification of 2-nitropropane in mouse liver microsomes. Marker EK, et al. **J Biochem Toxicol** 1986 Sep;1(3):71–83
Nonideal behavior of alkoxyphenoxazone compounds (cytochrome P-450 substrates) in aqueous solution. Rabovsky J, et al. **J Biochem Toxicol** 1989 Summer; 4(2):127–32
Comparison of the formation of benzo[a]pyrene diolepoxide-DNA adducts in vitro by rat and human microsomes: evidence for the involvement of P-450IA1 and P-450IA2. Vähäkangas K, et al. **J Biochem Toxicol** 1989 Summer;4(2):79–86
Spectroscopic characterization of secondary amine mono-oxygenase. Comparison to cytochrome P-450 and myoglobin. Alberta JA, et al. **J Biol Chem** 1989 Dec 5; 264(34):20467–73
Fatty acid monooxygenation by cytochrome P-450BM-3. Boddupalli SS, et al. **J Biol Chem** 1990 Mar 15; 265(8):4233–9
Cytochrome P-450 enzyme-specific control of the regio- and enantiofacial selectivity of the microsomal arachidonic acid epoxygenase. Capdevila JH, et al. **J Biol Chem** 1990 Jul 5;265(19):10865–71
Mutagenesis of a single hydrogen bond in cytochrome P-450 alters cation binding and heme solvation [published erratum appears in J Biol Chem 1990 Sep 25;265(27):16704] Di Primo C, et al. **J Biol Chem** 1990 Apr 5;265(10):5361–3
Cytochrome P-450-dependent oxidation of arachidonic acid to 16-, 17-, and 18-hydroxyeicosatetraenoic acids. Falck JR, et al. **J Biol Chem** 1990 Jun 25;265(18):10244–9
Oxidation of halogenated compounds by cytochrome P-450, peroxidases, and model metalloporphyrins. Guengerich FP. **J Biol Chem** 1989 Oct 15;264(29):17098–205
Kinetic deuterium isotope effects on the N-demethylation of tertiary amides by cytochrome P-450. Hall LR, et al. **J Biol Chem** 1990 Jul 25;265(21):12349–55
Endogenous epoxyeicosatrienoic acids. Cytochrome P-450 controlled stereoselectivity of the hepatic arachidonic acid epoxygenase. Karara A, et al. **J Biol Chem** 1989 Nov 25; 264(33):19822–7
A reexamination of the cytochrome P-450-catalyzed free radical production from a dihydropyridine. Evidence of trace transition metal catalysis. Kennedy CH, et al. **J Biol Chem** 1990 Jul 15;265(20):11425–8
Biosynthesis of 18(RD)-hydroxyeicosatetraenoic acid from arachidonic acid by microsomes of monkey seminal vesicles. Some properties of a novel fatty acid omega 3-hydroxylase and omega 3-epoxygenase. Oliw EH. **J Biol Chem** 1989 Oct 25;264(30):17845–53
Protein components of a cytochrome P-450 linalool 8-methyl hydroxylase. Ullah AJ, et al. **J Biol Chem** 1990 Jan 25; 265(3):1345–51
Kinetic studies on spin trapping of superoxide and hydroxyl radicals generated in NADPH-cytochrome P-450 reductase-paraquat systems. Effect of iron chelates. Yamazaki I, et al. **J Biol Chem** 1990 Jan 15;265(2):652–9
Heparin and acidic fibroblast growth factor interact to decrease prostacyclin synthesis in human endothelial cells by affecting both prostaglandin H synthase and prostacyclin synthase. Weksler BB. **J Cell Physiol** 1990 Mar;142(3):514–22
Cytochrome P450 metabolites of arachidonic acid are potent inhibitors of vasopressin action on rabbit cortical collecting duct. Hirt DL, et al. **J Clin Invest** 1989 Dec;84(6):1805–12
A regiospecific monooxygenase with novel stereopreference is the major pathway for arachidonic acid oxygenation in isolated epidermal cells. Holtzman MJ, et al. **J Clin Invest** 1989 Nov;84(5):1446–53
Sex differences in cytochrome P-450-dependent xenobiotic and steroid metabolism in the mature rainbow trout kidney. Andersson T. **J Endocrinol** 1990 Jul;126(1):9–16
Sex differences in hepatic cytochrome P-450 monooxygenase activities in rainbow trout during an annual reproductive cycle. Förlin L, et al. **J Endocrinol** 1990 Feb;124(2):207–13
The cytochrome P450(17) alpha (17 alpha-hydroxylase/C17,20-lyase) activity of the junctional zone of the rat placenta. Johnson DC, et al. **J Endocrinol** 1990 May;125(2):217–24
Feminization of the hepatic microsomal cytochrome P-450 system in brook trout by estradiol, testosterone, and pituitary factors. Pajor AM, et al. **J Exp Zool** 1990 Jan; 253(1):51–60
Demethylation of tertiary amines by a reconstituted cytochrome P-450 enzyme system: kinetics of oxygen consumption and hydrogen peroxide formation. Ristau O, et al. **J Inorg Biochem** 1989 Oct;37(2):111–8
Coordinate modulation of murine hepatic xanthine oxidase activity and the cytochrome P-450 system by interferons. Reiners JJ Jr, et al. **J Interferon Res** 1990 Apr;10(2):109–18
Mechanistic studies of lanosterol 14 alpha-methyl demethylase: substrate requirements for the component reactions catalyzed by a single cytochrome P-450 isozyme. Fischer RT, et al. **J Lipid Res** 1989 Oct;30(10):1621–32
Polymorphic sparteine metabolism and amyotrophic lateral sclerosis. Kaneko K, et al. **J Neurol** 1989 Dec;236(8):452–5
Cytochrome P450 and Parkinson's disease. Poor parahydroxylation of phenytoin. Ferrari MD, et al. **J Neurol Sci** 1990 May;96(2–3):153–7
Estradiol-15 alpha-hydroxylation: a new avenue of estrogen metabolism in peri-implantation pig blastocysts. Chakraborty C, et al. **J Steroid Biochem** 1990 Feb; 35(2):209–18
Effect of chronic estrogen treatment of Syrian hamsters on microsomal enzymes mediating formation of catecholestrogens and their redox cycling: implications for carcinogenesis. Liehr JG, et al. **J Steroid Biochem** 1990 Apr;35(3):555–60
Involvement of cytochrome P-450 in the synthesis of 5,16,androstadien-3 beta-ol from pregnenolone in pig testes microsomes. Squires EJ. **J Steroid Biochem** 1989 Oct; 33(4A):621–6
Decrease in the metabolic activating capacities of arylamines in livers bearing hyperplastic nodules: association with the selective changes in hepatic P-450 isozymes. Ozawa S, et al. **Jpn J Cancer Res** 1990 Mar;81(3):247–52
Age-related down regulation of hepatic cytochrome P1-450, P3-450, catalase and CuZn-superoxide dismutase RNA. Mote PL, et al. **Mech Ageing Dev** 1990 Mar 31;53(1):101–10
Cytochrome P-450 activity in malarial parasites and its possible relationship to chloroquine resistance. Ndifor AM, et al. **Mol Biochem Parasitol** 1990 Jun;41(2):251–7
Stable expression of human cytochrome P450IA2 cDNA in a human lymphoblastoid cell line: role of the enzyme in the metabolic activation of aflatoxin B1. Crespi CL, et al. **Mol Carcinog** 1990;3(1):5–8
Transfection of a rat cytochrome P450b cDNA into C3H10T1/2CL8 mouse embryo fibroblasts. Hansen SK, et al. **Mol Carcinog** 1989;2(5):261–7
Cellular distribution of prostacyclin synthase and specific prostacyclin binding sites in bovine corpora lutea of pregnancy. Chegini N, et al. **Mol Cell Endocrinol** 1990 Jun 18;71(2):133–40
Catechol estrogen formation in the mouse uterus and its role in implantation. Paria BC, et al. **Mol Cell Endocrinol** 1990 Feb 12;69(1):25–32
18-Hydroxylase activity in the Y1 adrenal cell line. Ramirez LC, et al. **Mol Cell Endocrinol** 1989 Sep;66(1):83–91
Enantioselective S-oxygenation of para-methoxyphenyl-1,3-dithiolane by various tissue preparations: effect of estradiol. Cashman JR, et al. **Mol Pharmacol** 1990 Feb;37(2):319–27
Enantioselective S-oxygenation of 2-aryl-1,3-dithiolanes by rabbit lung enzyme preparations. Cashman JR, et al. **Mol Pharmacol** 1990 Feb;37(2):333–9
Mechanisms of activation of phenacetin to reactive metabolites by cytochrome P-450: a theoretical study involving radical intermediates. Koymans L, et al. **Mol Pharmacol** 1990 Mar;37(3):452–60
Cytochrome P450IIIA enzymes in rat liver microsomes: involvement in C3-hydroxylation of diazepam and nordazepam but not N-dealkylation of diazepam and temazepam. Reilly PE, et al. **Mol Pharmacol** 1990 May; 37(5):767–74
Effects of 4-alkyl analogues of 3,5-diethoxycarbonyl-1,4-dihydro-2,4,6-trimethylpyridine on hepatic cytochrome P-450 heme, apoproteins, and catalytic activities following in vivo administration to rats. Riddick DS, et al. **Mol Pharmacol** 1990 Jan;37(1):130–6
Cytochrome P450IA1 induction and localization in endothelium of vertebrate (teleost) heart. Stegeman JJ, et al. **Mol Pharmacol** 1989 Nov;36(5):723–9
Effects of testosterone and growth hormone treatment on hepatic microsomal P450 expression in the diabetic rat. Thummel KE, et al. **Mol Pharmacol** 1990 Jan;37(1):119–29
Studies on the expression and metabolic capabilities of human liver cytochrome P450IIIA5 (HLp3). Wrighton SA, et al. **Mol Pharmacol** 1990 Aug;38(2):207–13
Suppression of hepatic levels of an ethanol-inducible P-450DM/j by growth hormone: relationship between the increased level of P-450DM/j and depletion of growth hormone in diabetes. Yamazoe Y, et al. **Mol Pharmacol** 1989 Nov;36(5):716–22
Strategies for optimization of short-term genotoxicity tests: the synergistic effect of NADPH and NADH on P450 function in processing pre-mutagens. Paolini M, et al. **Mutagenesis** 1990 Jan;5(1):51–4
Cytochrome P-450 and chromosome damage by cyclophosphamide in LEC strain rats predisposed to hereditary hepatitis and liver cancer. Masuda R, et al. **Mutat Res** 1990 Aug;244(4):309–16
Characterization of a co-culture system of neurons and hepatocytes. Westergaard N, et al. **Neurochem Res** 1989 Dec;14(12):1203–7
The synergistic effect of NADPH and NADH on P450 function in processing premutagens. Paolini M, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:129–30
Suppression of the hepatic microsomal cytochrome P-450 dependent mixed function oxidase activities in golden hamster during Leishmania donovani infection. Singh AK, et al. **Pharmacol Res** 1989 Sep-Oct;21(5):507–12
Is the sigma opiate receptor a proadifen-sensitive subform of cytochrome P-450? Ross SB. **Pharmacol Toxicol** 1990 Jul;67(1):93–4
Sparteine metabolism capacity in human liver: structural variants of human P450IID6 as assessed by immunochemistry. Tyndale RF, et al. **Pharmacol Toxicol** 1990 Jul;67(1):14–8
Effects of tin-porphyrins on developmental changes in hepatic cytochrome P450 content, selected P450-dependent drug-metabolizing enzyme activities and brain glutathione levels in the newborn rat. Drummond GS, et al. **Pharmacology** 1989;39(5):273–84
Xenobiotic and steroid-metabolizing monooxygenases catalysed by cytochrome P450 and glutathione S-transferase conjugations in the human placenta and their relationships to maternal cigarette smoking. Pasanen M, et al. **Placenta** 1990 Jan-Feb;11(1):75–85
Cytochrome b5 potentiation of cytochrome P-450 catalytic activity demonstrated by a vaccinia virus-mediated in situ reconstitution system. Aoyama T, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5425–9
Human cytochrome P-450PA (P-450IA2), the phenacetin O-deethylase, is primarily responsible for the hepatic 3-demethylation of caffeine and N-oxidation of carcinogenic arylamines. Butler MA, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7696–700
Substrate-, hormone-, and cAMP-regulated cytochrome P450 degradation [published erratum appears in Proc Natl Acad Sci U S A 1990 Jul;87(13):5232] Eliasson E, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3225–9
Uncoupling of the cytochrome P-450cam monooxygenase reaction by a single mutation, threonine-252 to alanine or valine: possible role of the hydroxy amino acid in oxygen activation. Imai M, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7823–7
Hybrid cytochromes P-450 identify a substrate binding domain in P-450IIC5 and P-450IIC4. Kronbach T, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8262–5
Role of recombinant cytochromes P4501A1 and P4501A2 in the metabolism and genotoxicity of food derived mutagens. Battula N, et al. **Prog Clin Biol Res** 1990; 340E:127–37
Activation of promutagens by human cDNA-expressed cytochrome P450s. Gonzalez FJ, et al. **Prog Clin Biol Res** 1990;340B:77–86
Exposure to, and activation of, the food derived mutagenic heterocyclic amine MeIQx. Gooderham NJ, et al. **Prog Clin Biol Res** 1990;340B:67–76
Activation of mutagens by human cytochrome P-450 enzymes. Guengerich FP, et al. **Prog Clin Biol Res** 1990; 340B:87–96
Determination of carcinogenic arylamine N-oxidation phenotype in humans by analysis of caffeine urinary metabolites. Kadlubar FF, et al. **Prog Clin Biol Res** 1990; 340B:107–14
Metabolism of food derived mutagens and 2-acetylaminofluorene by purified rabbit and cDNA expressed human cytochromes P450. McManus ME, et al. **Prog Clin Biol Res** 1990;340E:139–47
Novel cytochrome P450-dependent arachidonic acid metabolites and their ocular effects. Masferrer JL, et al.

Prog Clin Biol Res 1989;312:85–93

Control of ultimate mutagenic species by diverse enzymes. Oesch F, et al. **Prog Clin Biol Res** 1990;340B:49–65

Arachidonic acid metabolites by cytochrome P-450 dependent monooxygenase pathway in bovine adrenal fasciculata cells. Nishimura M, et al. **Prostaglandins** 1989 Oct;38(4):413–30

Steroidogenic cytochrome P450 enzymes and ovarian steroidogenesis. Rodgers RJ. **Reprod Fertil Dev** 1990; 2(2):153–63 (59 ref.)

Oxidation of diethyldithiocarbamate to disulfiram by liver microsomal cytochrome P-450–containing monooxygenase system. Masuda Y, et al.
Res Commun Chem Pathol Pharmacol 1989 Oct;66(1):57–67

Effect of aztreonam on immunohistochemical localizations of cytochrome P-450 (M-1) in male rats. Sagami F, et al.
Res Commun Chem Pathol Pharmacol 1989 Sep; 65(3):337–44

Cytochrome-P-450-dependent metabolism of retinoic acid in rat skin microsomes: inhibition by ketoconazole. Vanden Bossche H, et al. **Skin Pharmacol** 1988;1(3):176–85

Three forms of trichloroethylene-metabolizing enzymes in rat liver induced by ethanol, phenobarbital, and 3-methylcholanthrene. Nakajima T, et al.
Toxicol Appl Pharmacol 1990 Mar 1;102(3):546–52

Cisplatin nephrotoxicity in lead-pretreated rats: enzymatic and morphological studies. Bompart G, et al.
Toxicol Lett 1990 Feb;50(2–3):237–47

Investigations on benzyltoluenes. I. Induction of microsomal cytochrome P-450 and UDP-glucuronosyltransferase by tetrachlorobenzyltoluenes and by the condensate. von Meyerinck L, et al. **Toxicol Lett** 1990 Apr;51(2):163–74

Differential effects of 12-O-tetradecanoylphorbol 13-acetate on cytochrome P-450-dependent monooxygenase activities in rat hepatoma cells: induction of P-450I and suppression of P-450II. Roesch SF, et al. **Toxicology** 1990 Apr 17; 61(2):147–59

Induction of rat liver microsomal cytochrome P-450 by the pentabromo diphenyl ether Bromkal 70 and half-lives of its components in the adipose tissue. von Meyerinck L, et al. **Toxicology** 1990 Apr 30;61(3):259–74

Cytochrome P-450 catalysis: radical intermediates and dehydrogenation reactions. Ortiz de Montellano PR.
Trends Pharmacol Sci 1989 Sep;10(9):354–9 (27 ref.)

Role of lipid in the electron transfer between NADPH-cytochrome P-450 reductase and cytochrome P-450 from mammalian liver cells. Blanck J, et al.
Xenobiotica 1989 Nov;19(11):1231–46

Cytochrome P-450 in the housefly: induction, substrate specificity and comparison to three rat hepatic isoenzymes. Clarke SE, et al. **Xenobiotica** 1989 Oct;19(10):1175–80

Metabolism of dihydroergotamine by a cytochrome P-450 similar to that involved in the metabolism of macrolide antibiotics. Delaforge M, et al. **Xenobiotica** 1989 Nov; 19(11):1285–95

Studies on covalent binding of (-)trans-7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene metabolites to cytochromes P-450 LM2 and LM4 and NADPH-cytochrome P-450 reductase. Deutsch J, et al.
Xenobiotica 1989 Dec;19(12):1421–35

Cytochrome P450 monooxygenases in crustaceans. James MO. **Xenobiotica** 1989 Oct;19(10):1063–76 (55 ref.)

Cytochrome P-450 and oxidative metabolism in molluscs. Livingstone DR, et al. **Xenobiotica** 1989 Oct;19(10):1041–62 (108 ref.)

Microsomal metabolism of fluoroanilines. Rietjens IM, et al.
Xenobiotica 1989 Nov;19(11):1297–305

Cytochrome P-450 monooxygenases in insects. Ronis MJ, et al. **Xenobiotica** 1989 Oct;19(10):1077–92 (114 ref.)

Cytochrome P450 forms in fish: catalytic, immunological and sequence similarities. Stegeman JJ. **Xenobiotica** 1989 Oct; 19(10):1093–110 (54 ref.)

The monooxygenases of birds, reptiles and amphibians. Walker CH, et al. **Xenobiotica** 1989 Oct;19(10):1111–21 (31 ref.)

Indications for adaptation to differently high vitamin C supplies in guinea pigs. 2. Development of hepatic amounts of microsomal protein and cytochromes (P-450, b5) after altered dosing. Degkwitz E, et al. **Z Ernahrungswiss** 1989 Dec;28(4):338–44

Cytochrome P-450-dependent biotransformation in Uje:WIST rats with chronic liver injury induced by thioacetamide. Kraul H, et al. **Z Versuchstierkd** 1989; 32(6):269–73

[The effect of aflatoxin B1 on vitamin A status and on microsomal mixed function oxidase in male mouse] Liu XL, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Jul; 23(4):218–21 (Eng. Abstr.) **(Chi)**

[The excessive activity of cytochrome P450 system in ALS—the metabolic ratio of sparteine] Kaneko K, et al.
Rinsho Shinkeigaku 1989 Oct;29(10):1251–5 (Eng. Abstr.) **(Jpn)**

[Effects of lead on drug metabolizing enzymes, cytochrome P-450 and hemeoxygenase in rats] Harada K, et al.
Sangyo Igaku 1990 Jan;32(1):33–40 (Eng. Abstr.) **(Jpn)**

[Effects of ethylene oxide on hepatic microsomal cytochrome P-450: an in vitro study] Fujishiro K, et al.
Sangyo Ika Daigaku Zasshi 1989 Sep 1;11(3):299–303 (Eng. Abstr.) **(Jpn)**

[Inhibition of cytochrome P-450-dependent monooxygenase activities by a synthetic androgen danazol in mouse hepatic microsomes] Konishi H, et al. **Yakugaku Zasshi** 1990 Jan; 110(1):49–54 (Eng. Abstr.) **(Jpn)**

[The effect of benzene on the activity of the hepatic mono-oxygenase system of female rats as a function of age] Plewka D, et al. **Med Pr** 1990;41(1):10–7 (Eng. Abstr.) **(Pol)**

[The use of markers for determination of the activity of microsomal enzymes connected with cytochrome p-450] Krajewska B, et al. **Wiad Lek** 1989 Jun 1;42(11):739–43 (25 ref.) (Eng. Abstr.) **(Pol)**

[The effect of phenobarbital and amidopyrine on the rate of decomposition of isoforms of cytochrome P-450 in mouse liver microsomes] Adrianov NV, et al.
Biokhimiia 1989 Jul;54(7):1120–5 (Eng. Abstr.) **(Rus)**

[The role of heme in the regulation of tryptophan-2,3-dioxygenase activity and content of cytochrome P-450 in rat liver] Kaliman PA, et al.
Biokhimiia 1989 Oct;54(10):1719–24 (Eng. Abstr.) **(Rus)**

[Evaluation of catalytic activity of multiple forms of cytochrome P-450 in liver microsomes of Wistar rats by androstenedione metabolism] Khatsenko OG, et al.
Biokhimiia 1990 Feb;55(2):308–14 (Eng. Abstr.) **(Rus)**

[Cytochrome P-450 in proteoliposomes: oligomeric structure of the LM2 isoform] Miasoedova KN, et al. **Biokhimiia** 1989 Sep;54(9):1445–56 (Eng. Abstr.) **(Rus)**

[Catalytic activity of isolated cytochromes P-450d and P-450c] Mishin VM, et al. **Biokhimiia** 1989 Jul;54(7):1163–9 (Eng. Abstr.) **(Rus)**

[Activity of enzymes participating in xenobiotic metabolism and the condition of microsomal membranes of rat liver in vitamin K deficiency] Pentiuk AA, et al. **Biokhimiia** 1989 Oct;54(10):1700–8 (Eng. Abstr.) **(Rus)**

[Oxygenase activity of cytochrome P-450 electrochemically reduced in the presence of methylviologen] Remizov VA, et al. **Biokhimiia** 1990 Jan;55(1):37–42 (Eng. Abstr.) **(Rus)**

[Immune response to benzo(a)pyrene in rabbits immunized with a conjugate of benzo(a)pyrene-albumin, synthesized in the microsomal monooxygenase system of the liver] Shipulina NV, et al. **Biokhimiia** 1989 Aug;54(8):1254–7 (Eng. Abstr.) **(Rus)**

[The role of heme in formation of the native structure of cytochrome P-450 LM2] Uvarov VIu, et al. **Biokhimiia** 1990 Jan;55(1):126–33 (Eng. Abstr.) **(Rus)**

[A study of the interaction of substrates with cytochrome P-450 by a method of UV- and 1H-NMR spectroscopy] Vol'dman IuIu, et al. **Bioorg Khim** 1989 Aug;15(8):1044–55 (Eng. Abstr.) **(Rus)**

[Effects of emotional-pain stress on induction of P-450 cytochrome in the rat liver] Ugolev AT, et al.
Biull Eksp Biol Med 1989 Jul;108(7):48–50 (Eng. Abstr.) **(Rus)**

[Rotational diffusion of cytochrome P-450 in a model membrane of various phospholipid composition] Kiselev PA, et al. **Dokl Akad Nauk SSSR** 1989;307(2):473–6 **(Rus)**

[The behavioral dynamics and catalytic properties of the cytochrome P-450 of liver microsomes in the presence of Mg2+ ions] Kiselev PA, et al. **Dokl Akad Nauk SSSR** 1989;309(4):984–7 **(Rus)**

[Dynamics of protein-protein interaction in a monoxygenase enzyme system reconstructed in liposomes of various phospholipid composition] Kiselev PA, et al.
Dokl Akad Nauk SSSR 1989;309(3):729–32 **(Rus)**

[Enzymatic synthesis and immunochemical characterization of conjugated morphine-protein antigens] Kovalev IE, et al. **Farmakol Toksikol** 1989 May-Jun;52(3):62–6 (Eng. Abstr.) **(Rus)**

[Evaluation of liver monooxygenase function by the kinetics of antipyrine and its metabolites in liquid media of the body] Zavodnik LB, et al. **Farmakol Toksikol** 1989 May-Jun; 52(3):95–101 (81 ref.) (Eng. Abstr.) **(Rus)**

[Activity of enzymes of xenobiotic metabolism in the liver of rats after administration of polychlorinated biphenyls] Tutel'ian VA, et al. **Gig Sanit** 1990 May;(5):20–3 **(Rus)**

[Effect of the pesticide tocuthion on the activity of microsomal cytochrome P-450-dependent monooxygenases in the rat liver] Demidenko NM, et al.
Gig Tr Prof Zabol 1990;(1):45–6 **(Rus)**

[Cytochrome P-450 and oxidative modification of macromolecules] Archakov AI, et al.
Vestn Akad Med Nauk SSSR 1990;(2):21–7 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Tissue-specific regulation of cytochrome P-450 dependent testosterone 15 alpha-hydroxylase. Squires EJ, et al.
Can J Physiol Pharmacol 1990 Jun;68(6):769–76

A microcompartmentation analysis of intermediate leakage response to substrate excess in a membrane-bound bifunctional enzyme: local control of hydroxyprogesterone channeling efficiency during cytochrome P450XVII-catalysed androgen biosynthesis. Kühn-Velten WN. **J Cell Biochem** 1990 Jun;43(2):149–59

Intrinsic isotope effects suggest that the reaction coordinate symmetry for the cytochrome P-450 catalyzed hydroxylation of octane is isozyme independent. Jones JP, et al. **J Med Chem** 1990 Apr;33(4):1242–6

Involvement of cytochrome P-450c in alpha-naphthoflavone metabolism by rat liver microsomes. Andries MJ, et al.
Mol Pharmacol 1990 Jun;37(6):990–5

PHYSIOLOGY

Interaction of ethanol with enflurane metabolism and toxicity: role of P450IIE1. Tsutsumi R, et al.
Alcoholism 1990 Apr;14(2):174–9

Relevance of vascular PGI2 synthase to vascular prostacyclin production in Dahl rats susceptible to salt-induced hypertension. Uehara Y, et al. **Am J Hypertens** 1990 Apr; 3(4):313–6

K+ alters cytochrome P-450-dependent arachidonate metabolism by rabbit renomedullary cells. Carroll MA, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F1084–9

Possible role of the acetone-inducible cytochrome P-450IIE1 in the metabolism and hepatotoxicity of thiobenzamide. Chieli E, et al. **Arch Toxicol** 1990;64(2):122–7

Cumene hydroperoxide-dependent oxidation of NNN'N'-tetramethyl-p-phenylenediamine and 7-ethoxycoumarin by cytochrome P-450. Comparison between the haemoproteins from liver and olfactory tissue. Reed CJ, et al. **Biochem J** 1989 Aug 1;261(3):793–800

Cytochrome P-450-dependent formation of alkylating metabolites of the 2-chloroethylnitrosoureas MeCCNU and CCNU. Kramer RA. **Biochem Pharmacol** 1989 Oct 1; 38(19):3185–92

Metabolic activation of the antidepressant tianeptine. I. Cytochrome P-450-mediated in vitro covalent binding. Letteron P, et al. **Biochem Pharmacol** 1989 Oct 1; 38(19):3241–6

Role of hepatic and renal cytochrome P-450 IVA1 in the metabolism of lipid substrates. Sharma RK, et al.
Biochem Pharmacol 1989 Oct 15;38(20):3621–9

The effect of moderately severe hemodilution with Fluosol-DA on cytochrome P-450 mediated antipyrine metabolism. Shrewsbury RP, et al.
Biomater Artif Cells Artif Organs 1989;17(4):393–402

Androgen-dependent renal microsomal cytochrome P-450 responsible for N-hydroxylation and mutagenic activation of 3-methoxy-4-aminoazobenzene in the BALB/c mouse. Degawa M, et al. **Cancer Res** 1990 May 1;50(9):2729–33

Human cytochrome P450IIA3: cDNA sequence, role of the enzyme in the metabolic activation of promutagens, comparison to nitrosamine activation by human cytochrome P450IIE1. Crespi CL, et al. **Carcinogenesis** 1990 Aug;11(8):1293–300

Differential rates of metabolic activation and detoxication of the food mutagen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine by different cytochrome P450 enzymes. Wallin H, et al.
Carcinogenesis 1990 Mar;11(3):489–92

Cytochrome P-455 nm complex formation in the metabolism of phenylalkylamines. XI. Peroxygenase versus monooxygenase function of cytochrome P-450 in rat liver microsomes. Jönsson KH, et al. **Chem Biol Interact** 1990; 75(3):267–79

Hepatic microsomal warfarin metabolism in warfarin-resistant and susceptible mouse strains: influence of pretreatment with cytochrome P-450 inducers. Sutcliffe FA, et al. **Chem Biol Interact** 1990;75(2):171–84

Cytochrome P-450-dependent metabolism of xenobiotics. A comparative study of rat hepatic and plant microsomal metabolism. Borlakoglu JT, et al.
Comp Biochem Physiol [C] 1989;94(2):613–7

Role of P-450c in the formation of a reactive intermediate of chlorotrianisene (TACE) by hepatic microsomes from methylcholanthrene-treated rats. Juedes MJ, et al.
Drug Metab Dispos 1990 Mar-Apr;18(2):131–7

Does cytochrome P-450 mediate the effects of norepinephrine in the hepatocyte? Holtzman JL, et al.
Drug Metab Rev 1989;20(2–4):629–43 (38 ref.)

Protection against chemical-induced lung injury by inhibition of pulmonary cytochrome P-450. Verschoyle RD, et al.
Environ Health Perspect 1990 Apr;85:95–100

Levels of cytochrome P-450-mediated aryl hydrocarbon hydroxylase (AHH) are higher in differentiated than in germinative cutaneous keratinocytes. Guo JF, et al.
J Invest Dermatol 1990 Jan;94(1):86–93

Induction of estradiol metabolism by dietary indole-3-carbinol in humans. Michnovicz JJ, et al.
J Natl Cancer Inst 1990 Jun 6;82(11):947–9

Lamb ductus venosus: evidence of a cytochrome P-450 mechanism in its contractile tension. Adeagbo AS, et al.
J Pharmacol Exp Ther 1990 Feb;252(2):875–9

Tolbutamide and mephenytoin hydroxylation by human cytochrome P450s in the CYP2C subfamily. Relling MV, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):442–7

Pronounced and differential effects of ionic strength and pH on testosterone oxidation by membrane-bound and purified forms of rat liver microsomal cytochrome P-450. Gemzik B, et al. **J Steroid Biochem** 1990 Mar;35(3–4):429–40

Structure-activity relationships in the in vitro modulation of rat hepatic microsomal androst-4-ene-3,17-dione hydroxylase activities by derivatives of 5 alpha- and 5 beta-androstane. Murray M, et al. **J Steroid Biochem** 1990 Mar;35(3–4):465–71

Cytochrome P450-dependent arachidonic acid metabolism in human kidney. Schwartzman ML, et al. **Kidney Int** 1990 Jan;37(1):94–9

Role of cytochrome P450 in the control of the production of erythropoietin. Fandrey J, et al. **Life Sci** 1990; 47(2):127–34

Role of cytochromes P-450 in mouse liver tumor production. Parke DV, et al. **Prog Clin Biol Res** 1990;331:215–30 (46 ref.)

Evaluation of cytochrome P-450 mediated metabolism of antipyrine in the rat at different extents of fluosol-DA hemodilution. Shrewsbury RP, et al.
Res Commun Chem Pathol Pharmacol 1990 Mar;67(3):411-4
[Twenty years with cytochromes P-450 involved in cholesterol metabolism] Okuda K. **Seikagaku** 1989 Jun; 61(6):467-81 **(Jpn)**

THERAPEUTIC USE

The role of cytochrome P-450 in dermatology. Janssen PA, et al. **Int J Dermatol** 1989 Oct;28(8):493-6 (38 ref.)

CYTOCHROME P-450(AROM) see **AROMATASE**

CYTOCHROME P-450(SCC) see **CHOLESTEROL DESMOLASE**

CYTOCHROME PEROXIDASE see under **PEROXIDASES**

CYTOCHROME REDUCTASES

Studies on the CoQH2-cytochrome c reductase segment of the respiratory chain of yeast mitochondria, using mutants of the cytochrome b split gene. Lemesle-Meunier D.
Biochimie 1989 Nov-Dec;71(11-12):1145-55 (49 ref.)
Structural analysis of NADH-cytochrome b5 reductase in relation to hereditary methemoglobinemia. Yubisui T, et al. **Prog Clin Biol Res** 1989;319:107-19; discussion 120-1 (28 ref.)

ANALYSIS

Mediated, anaerobic voltammetry of sulfite oxidase. Coury LA Jr, et al. **Anal Chem** 1990 Mar 1;62(5):452-8

ANTAGONISTS & INHIBITORS

Affinity modification of microsomal flavoproteins by NAD(P) 2',3'-dialdehydes. Slepneva IA, et al.
Biochem Biophys Res Commun 1989 Oct 31;164(2):758-63
Inhibition and inactivation of NADH-cytochrome c reductase activity of bovine heart submitochondrial particles by the iron(III)-adriamycin complex. Hasinoff BB.
Biochem J 1990 Feb 1;265(3):865-70

BLOOD

Effects of domain-specific erythrocyte membrane modulators on acetylcholinesterase and NADH:cytochrome b5 reductase activities. Palmieri DA, et al.
Arch Biochem Biophys 1990 Jul;280(1):224-8
[Clinical significance of cytochrome b5 reductase analysis in blood cell chemical tests] Takeshita M.
Nippon Rinsho 1989 Dec;48 Suppl:982-4 **(Jpn)**

DEFICIENCY

[Hereditary abnormalities of NADH-cytochrome b5 reductase] Yubisui T. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):847-51 **(Jpn)**

GENETICS

Nuclear mutants of Saccharomyces cerevisiae affected in bc1 complex. Orłowska-Matuszewska G, et al.
Acta Microbiol Pol 1989;38(2):97-106
Cloning and chromosomal mapping of human cytochrome b5 reductase (DIA1). Bull PC, et al. **Ann Hum Genet** 1988 Oct;52 (Pt 4):263-8
High-level expression in Escherichia coli of the catalytically active flavin domain of corn leaf NADH:nitrate reductase and its comparison to human NADH:cytochrome B5 reductase. Hyde GE, et al.
Biochem Biophys Res Commun 1990 May 16;168(3):1285-91
Identification of the subunits of bovine NADH dehydrogenase which are encoded by the mitochondrial genome. Gibb GM, et al. **Biochem J** 1990 Feb 1; 265(3):903-6
Serine-proline replacement at residue 127 of NADH-cytochrome b5 reductase causes hereditary methemoglobinemia, generalized type. Kobayashi Y, et al.
Blood 1990 Apr 1;75(7):1408-13
The MURF3 gene of T. brucei contains multiple domains of extensive editing and is homologous to a subunit of NADH dehydrogenase. Koslowsky DJ, et al. **Cell** 1990 Sep 7;62(5):901-11
cDNA of the 24 kDa subunit of the bovine respiratory chain NADH dehydrogenase: high sequence conservation in mammals and tissue-specific and growth-dependent expression. Chomyn A, et al. **Curr Genet** 1989 Aug; 16(2):117-26
Mitochondrial DNA of Chlamydomonas reinhardtii: the ND4 gene encoding a subunit of NADH dehydrogenase. Pratje E, et al. **Curr Genet** 1989 Jul;16(1):61-4
Transcripts of the NADH-dehydrogenase subunit 3 gene are differentially edited in Oenothera mitochondria. Schuster W, et al. **EMBO J** 1990 Jan;9(1):263-9
The same domain motif for ubiquinone reduction in mitochondrial or chloroplast NADH dehydrogenase and bacterial glucose dehydrogenase. Friedrich T, et al.
FEBS Lett 1990 Jun 4;265(1-2):37-40
Disruption of the gene encoding subunit VI of yeast cytochrome bc1 complex causes respiratory deficiency of cells with reduced cytochrome c levels. Kim CH, et al.
FEBS Lett 1990 Jun 18;266(1-2):78-82
RNA editing at a splicing site of NADH dehydrogenase subunit IV gene transcript in wheat mitochondria. Lamattina L, et al. **FEBS Lett** 1989 Nov 20;258(1):79-83
Nucleotide sequence of the second psbG gene in Synechocystis 6803. Possible implications for psbG function as a NAD(P)H dehydrogenase subunit gene. Mayes SR, et al. **FEBS Lett** 1990 Mar 12;262(1):49-54
Nucleotide sequence of cloned nad4 (urf4) gene from Chlamydomonas reinhardtii mitochondrial DNA. Ma DP, et al. **Gene** 1989 Dec 28;85(2):363-70
The organization and the complete nucleotide sequence of the human NADH-cytochrome b5 reductase gene. Tomatsu S, et al. **Gene** 1989 Aug 15;80(2):353-61
Cloning and sequencing of a cDNA encoding the precursor to the 24 kDa iron-sulfur protein of human mitochondrial NADH dehydrogenase. Toda H, et al. **Int J Biochem** 1989; 21(10):1161-8
Molecular cloning of a cDNA encoding rat NADH-cytochrome b5 reductase and the corresponding gene. Zenno S, et al. **J Biochem (Tokyo)** 1990 Jun; 107(6):810-6
Respiratory chain-linked NADH dehydrogenase. Mechanisms of assembly. Hall RE, et al. **J Biol Chem** 1990 Sep 25;265(27):16484-90
Analysis of NADH dehydrogenase proteins, ATPase subunit 9, cytochrome b, and ribosomal protein L14 encoded in the mitochondrial DNA of Paramecium. Pritchard AE, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):163-71
[Molecular analysis of the structure of the mutant NADH-cytochrome b5 reductase gene causing methemoglobinemia] Kobayashi Y.
Fukuoka Igaku Zasshi 1990 Jan;81(1):41-7 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Purification and properties of a membrane-bound NADH-cytochrome-b5 reductase from erythrocytes of the sipunculid worm, Phascolopsis gouldii. Bonomi F, et al.
Biochim Biophys Acta 1989 Nov 30;999(2):147-56
Adrenal autoantibodies bind to adrenal subcellular fractions enriched in cytochrome-c reductase and 5'-nucleotidase. Bright GM, et al. **J Clin Endocrinol Metab** 1990 Jan; 70(1):95-9
Isolation of the iron-sulfur-containing polypeptides of NADH: oxidoreductase ubiquinone. Ragan CI, et al.
Methods Enzymol 1986;126:360-9

METABOLISM

Paraquat resistance associated with reduced NADPH reductase in an energy-dependent paraquat-accumulating cell line. Kelner MJ, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):366-74
Effect of divalent cations on NADH-dependent and NADPH-dependent cytochrome b5 reduction by hepatic microsomes. Tamura M, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):313-9
Both the outer mitochondrial membrane and the microsomal forms of cytochrome b5 reductase contain covalently bound myristic acid. Quantitative analysis on the polyvinylidene difluoride-immobilized proteins. Borgese N, et al. **Biochem J** 1990 Mar 1;266(2):341-7
Influence of NAD-linked dehydrogenase activity on flux through oxidative phosphorylation. Moreno-Sánchez R, et al. **Biochem J** 1990 Jun 1;268(2):421-8
Enzymatic studies of the effect of Cu (II) on oxygen radical production stimulated by daunorubicin and ametantrone. Tarasiuk J, et al. **Biochem Pharmacol** 1990 May 1; 39(9):1405-10
Correlation of enzyme activities with fluorescence anisotropy of dansyl-labeled cytochrome b5/NADH-cytochrome-b5 reductase systems in phosphatidylcholine vesicles. Pugh EL, et al. **Biochim Biophys Acta** 1989 Nov 3;985(3):255-65
Evaluation of procedures for assaying oxidative phosphorylation enzyme activities in mitochondrial myopathy muscle biopsies. Zheng XX, et al.
Biochim Biophys Acta 1990 Aug 9;1019(1):1-10 (24 ref.)
Inhibitory effects of galloylglucose on nicotinamide adenine dinucleotide dehydrogenases of the aerobic respiratory chain of Escherichia coli. Konishi K, et al.
Chem Pharm Bull (Tokyo) 1990 Feb;38(2):474-6
Cytochrome P-450: cytochrome P-450 reductase interactions. Strobel HW, et al. **Drug Metab Rev** 1989; 20(2-4):519-33 (23 ref.)
Reversible inhibition of electron transfer in the ubiquinol. Cytochrome c reductase segment of the mitochondrial respiratory chain in hibernating ground squirrels. Brustovetsky NN, et al. **FEBS Lett** 1990 Apr 9;263(1):73-6
Kinetic studies on spin trapping of superoxide and hydroxyl radicals generated in NADPH-cytochrome P-450 reductase-paraquat systems. Effect of iron chelates. Yamazaki I, et al. **J Biol Chem** 1990 Jan 15;265(2):652-9
Postmortem changes in mitochondrial respiratory enzymes in brain and a preliminary observation in Parkinson's disease. Mizuno Y, et al. **J Neurol Sci** 1990 Apr;96(1):49-57
Brain regional analysis of NADH-cytochrome C reductase activity in Alzheimer's disease. Zubenko GS, et al.
J Neuropathol Exp Neurol 1990 May;49(3):206-14
Effect of chronic estrogen treatment of Syrian hamsters on microsomal enzymes mediating formation of catecholestrogens and their redox cycling: implications for carcinogenesis. Liehr JG, et al. **J Steroid Biochem** 1990 Apr;35(5):555-60
Thyroxine stimulation of rat liver microsomal NADH-cytochrome c reductase in vitro. Faas FH, et al.
Life Sci 1974 Dec 15;15(12):2059-68
Acute effects of hypoxia and phosphate on two populations of heart mitochondria. Duan JM, et al.
Mol Cell Biochem 1989 Oct 5;90(1):47-56
Human colon tumor cell line LS174T drug metabolizing system. Hammond DK, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):95-105
Superoxide anion production by doxorubicin analogs in heart sarcosomes and by mitochondrial NADH dehydrogenase. Gervasi PG, et al.
Res Commun Chem Pathol Pharmacol 1990 Jan; 67(1):101-15
Effects of hydrogen sulfide exposure on lung mitochondrial respiratory chain enzymes in rats. Khan AA, et al.
Toxicol Appl Pharmacol 1990 May;103(3):482-90
[One- and two-electron reduction of ubiquinone homologs by NADH- dehydrogenase preparations from the mitochondrial respiratory chain] Sled' VD, et al.
Biokhimiia 1989 Sep;54(9):1571-5 (Eng. Abstr.) **(Rus)**
[Effect of the pesticide tocuthion on the activity of microsomal cytochrome P-450-dependent monooxygenases in the rat liver] Demidenko NM, et al.
Gig Tr Prof Zabol 1990;(1):45-6 **(Rus)**

CYTOCHROMES

ANALYSIS

Immunological identification and distribution of dissimilatory heme cd1 and nonheme copper nitrite reductases in denitrifying bacteria. Coyne MS, et al.
Appl Environ Microbiol 1989 Nov;55(11):2924-31
Plastocyanin cytochrome f interaction [published erratum appears in Biochemistry 1989 Dec 26;28(26):10093] Morand LZ, et al. **Biochemistry** 1989 Oct 3;28(20):8039-47
The axial ligands of heme in cytochromes: a near-infrared magnetic circular dichroism study of yeast cytochromes c, c1, and b and spinach cytochrome f. Simpkin D, et al.
Biochemistry 1989 Oct 3;28(20):8033-9

ANTAGONISTS & INHIBITORS

Extramitochondrial release of hydrogen peroxide from insect and mouse liver mitochondria using the respiratory inhibitors phosphine, myxothiazol, and antimycin and spectral analysis of inhibited cytochromes. Bolter CJ, et al. **Arch Biochem Biophys** 1990 Apr;278(1):65-72

BIOSYNTHESIS

The induction of P450 I proteins by aromatic amines may be related to their carcinogenic potential. Ayrton AD, et al. **Carcinogenesis** 1990 May;11(5):803-9
Effects of hap mutations on heme and cytochrome formation in yeast. Mattoon JR, et al. **Curr Genet** 1990 Feb; 17(2):179-83
Isolation of a Rhodobacter capsulatus mutant that lacks c-type cytochromes and excretes porphyrins. Biel SW, et al. **J Bacteriol** 1990 Mar;172(3):1321-6
C-methylation occurs during the biosynthesis of heme d1. Yap-Bondoc F, et al. **J Biol Chem** 1990 Aug 15; 265(23):13498-500
Parallel changes in catabolite repression of haem biosynthesis and cytochromes in repression-resistant mutants of Saccharomyces cerevisiae. Borralho LM, et al.
J Gen Microbiol 1989 May;135 (Pt 5):1217-27

DEFICIENCY

Mitochondrial myopathies: multiple enzyme defects in the respiratory chain. Ruitenbeek W, et al.
J Inherited Metab Dis 1989;12 Suppl 2:352-4

GENETICS

Nuclear mutants of Saccharomyces cerevisiae affected in bc1 complex. Orłowska-Matuszewska G, et al.
Acta Microbiol Pol 1989;38(2):97-106
Structure and expression of cytochrome f in an Oenothera plastome mutant. Johnson EM, et al. **Curr Genet** 1990 Jun; 17(6):529-34
Mutations affecting the cytochrome d-containing oxidase complex of Escherichia coli K12: identification and mapping of a fourth locus, cydD. Poole RK, et al.
J Gen Microbiol 1989 Jul;135 (Pt 7):1865-74

IMMUNOLOGY

Epitopes of monoclonal antibodies which inhibit ubiquinol oxidase activity of Escherichia coli cytochrome d complex localize functional domain. Dueweke TJ, et al.
J Biol Chem 1990 Mar 15;265(8):4273-7

ISOLATION & PURIFICATION

Soluble cytochromes and ferredoxins from the marine purple phototrophic bacterium, Rhodopseudomonas marina. Meyer TE, et al. **Biochim Biophys Acta** 1990 Jun 1; 1017(2):125-38
Two types of cytochrome cd1 in the aerobic photosynthetic bacterium, Erythrobacter sp. OCh 114. Doi M, et al.
Eur J Biochem 1989 Oct 1;184(3):521-7
[Use of enzyme preparation from Streptomyces recifensis

subsp. lyticus for isolation of membrane substances from staphylococcal cells] Oriabinskaia LB, et al. **Antibiot Khimioter** 1990 Jun;35(6):18–21 (Eng. Abstr.) **(Rus)**

METABOLISM

Alternative respiration pathways in Schwanniomyces castellii. II. Characteristics of oxidation pathways. Dubreucq E, et al. **Antonie Van Leeuwenhoek** 1990 Apr; 57(3):131–7

Alternative respiration pathways in Schwanniomyces castellii. I. Isolation and characterization of cytochrome-deficient mutants. Dubreucq E, et al. **Antonie Van Leeuwenhoek** 1990 Apr;57(3):123–30

Potentiometric and spectroscopic properties of the cytochrome o complex of Escherichia coli. Withers HK, et al. **Biochem Cell Biol** 1990 Jan;68(1):83–90

Na(+)-induced reversal of the Ca2(+)-dependent red-shift of cytochrome a. Is there a hydronium output well in cytochrome c oxidase? Mkrtchyan H, et al. **Biochem Int** 1990;20(1):183–9

The formation of cytochrome P-450 from cytochrome P-420 is promoted by spermine. Hui Bon Hoa G, et al. **Biochemistry** 1990 Jul 24;29(29):6810–5

Electron transfer between cytochrome a and copper A in cytochrome c oxidase: a perturbed equilibrium study. Morgan JE, et al. **Biochemistry** 1989 Aug 22;28(17):6975–83

Cytochrome P-455 nm complex formation in the metabolism of phenylalkylamines. XI. Peroxygenase versus monooxygenase function of cytochrome P-450 in rat liver microsomes. Jönsson KH, et al. **Chem Biol Interact** 1990; 75(3):267–79

Heme-copper and heme-heme interactions in the cytochrome bo-containing quinol oxidase of Escherichia coli. Salerno JC, et al. **J Biol Chem** 1990 Mar 15; 265(8):4364–8

Cooperative proton-transfer reactions in the respiratory chain: redox bohr effects. Papa S, et al. **Methods Enzymol** 1986;126:331–43

PHYSIOLOGY

Cytochrome-mediated electron transport in H(+)-secreting gastric cells. Kidder GW 3d. **Ann N Y Acad Sci** 1989; 574:219–32

CYTODIAGNOSIS

Cytologic diagnosis of liver fluke infestation in a patient with subsequently documented cholangiocarcinoma. Papillo JL, et al. **Acta Cytol** 1989 Nov–Dec;33(6):865–9

A cytological study of mammary disease. Webb AJ. **Ann R Coll Surg Engl** 1975 Apr;56(4):181–91

Impact of fine needle aspiration cytology on the management of solitary thyroid nodules. Ng EH, et al. **Aust N Z J Surg** 1990 Jun;60(6):463–6

Evaluation of the role of endoscopic biopsies and cytology in the detection of gastric malignancy. Waldron R, et al. **Br J Surg** 1990 Jan;77(1):62–3

The application of monoclonal antibodies in the cytologic evaluation of tumors. Szpak C, et al. **Clin Lab Med** 1990 Mar;10(1):77–103 (210 ref.)

Screening for oral hairy leukoplakia by cytologic examination [letter] Lumerman HS, et al. **Diagn Cytopathol** 1990; 6(3):225

Variations in interpretation of gynecologic cytology photomicrographs. Maguire N. **Diagn Cytopathol** 1989; 5(3):305–17

[Cytodiagnosis of suspect lesions of the esophagus and stomach. Histocytological correlations in 435 cases] Ciarmiello G, et al. **Minerva Dietol Gastroenterol** 1989 Oct–Dec;35(4):247–50 (Eng. Abstr.) **(Ita)**

[Reliability of exfoliative cytology in neoplasms of the oral cavity] Belli E, et al. **Minerva Stomatol** 1989 Nov; 38(11):1197–9 (Eng. Abstr.) **(Ita)**

[Comparison of cytology and microhistology in ultrasonic--guided fine-needle biopsy of the prostate] Antico E, et al. **Radiol Med (Torino)** 1990 Jan–Feb; 79(1–2):83–6 (Eng. Abstr.) **(Ita)**

[Urinary cytodiagnosis in urothelial neoplasms. A study of 678 cases] Longatto Filho A, et al. **Rev Paul Med** 1989 Jan–Feb;107(1):15–8 (Eng. Abstr.) **(Por)**

[Emergency cytodiagnosis of tumors and nontumorous processes localized in the mediastinum] Frolova GA. **Sov Med** 1989;(12):14–8 (Eng. Abstr.) **(Rus)**

[The potentials of fiber bronchoscopy with immediate cytological study in the diagnosis of lung cancer under outpatient conditions] Gorbacheva LM, et al. **Vopr Onkol** 1990;36(5):579–82 (Eng. Abstr.) **(Rus)**

[Cytodiagnosis of solid abdominal masses: cytologic study by percutaneous puncture with a fine-needle guided by echography, computed tomography or radioscopy] Fernández M, et al. **Rev Med Chil** 1988 Dec;116(12):1283–7 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Endoscopic retrograde wire-guided brush cytology for diagnosis of patients with malignant obstruction of the bile duct. Fouich PG, et al. **Am J Gastroenterol** 1990 Jul; 85(7):791–5

[Brush cytology for the evaluation of dry-eye] Tsubota K, et al. **Nippon Ganka Gakkai Zasshi** 1990 Feb;94(2):224–30 (Eng. Abstr.) **(Jpn)**

METHODS

Use of monoclonal antibodies to glial fibrillary acidic protein in the cytologic diagnosis of brain tumors. Chen Y, et al. **Acta Cytol** 1989 Nov–Dec;33(6):922–8

Combined use of brushing cytology and endoscopic retrograde pancreatography for the early detection of pancreatic cancer. Sawada Y, et al. **Acta Cytol** 1989 Nov–Dec;33(6):870–4

Endobrush sampling for endometrial cancer. Vuopala S, et al. **Acta Obstet Gynecol Scand** 1989;68(4):345–50

Natural history and significance of esophageal squamous cell dysplasia. Jacob P, et al. **Cancer** 1990 Jun 15;65(12):2731–9

Communication and aspiration biopsy cytology: clear, concise, and to the point [editorial] Kline TS. **Diagn Cytopathol** 1990;6(3):153

Small-intestinal brushing cytology in the diagnosis of cryptosporidiosis in AIDS. Silverman JF, et al. **Diagn Cytopathol** 1990;6(3):193–6

Brush cytology evaluation of lesions encountered during ERCP. Scudera PL, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):281–4

Detection of proliferative breast disease by four-quadrant, fine-needle aspiration. Ward JH, et al. **J Natl Cancer Inst** 1990 Jun 6;82(11):964–6

Components of image intensive diagnosis. Codifying visual features for effusion cytology. Bodick N, et al. **Lab Invest** 1990 Jul;63(1):123–31

Fibreoptic bronchoscopy: an assessment of immediate cytological diagnosis using methylene blue stain. Titley I, et al. **Respir Med** 1989 Jan;83(1):37–41

[Cytological changes in endocrine therapies of prostatic carcinoma] Ichijo S, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 May;81(5):701–6 (Eng. Abstr.) **(Jpn)**

[Laboratory tests on cancer--cytology] Irie K, et al. **Rinsho Byori** 1990 Jan;38(1):5–13 (Eng. Abstr.) **(Jpn)**

[Application of crush cytology preparation for rapid diagnosis of brain tumors] Sawada T, et al. **Rinsho Byori** 1990 Jul;38(7):830–4 (Eng. Abstr.) **(Jpn)**

[The use of the plasma-thrombin method for diagnosing parasitic diseases] De Girolami E, et al. **Rev Biol Trop** 1988 Nov;36(2B):485–98 (Eng. Abstr.) **(Spa)**

STANDARDS

Value of the cytologic analysis of fine needle aspiration biopsy specimens in the diagnosis of pancreatic carcinomas. Soudah B, et al. **Acta Cytol** 1989 Nov–Dec;33(6):875–80

The evaluation of morphological characteristics of human spermatozoa according to stricter criteria. Menkveld R, et al. **Hum Reprod** 1990 Jul;5(5):586–92

TRENDS

The future of cytotechnology. Hogan CL. **Diagn Cytopathol** 1989;5(3):335–8

CYTOFLUOROMETRY, FLOW see **FLOW CYTOMETRY**

CYTOGENETICS

see related
CHROMOSOME ABNORMALITIES
CHROMOSOME MAPPING
KARYOTYPING

Analytical cytogenetics. Dedicated to the memory of Sam Latt. A symposium of the 13th International Meeting of the Society for Analytical Cytology. Breckenridge, Colorado, September 4–9, 1988. Proceedings. **Cytometry** 1990;11(1):1–218

Papers dedicated to the memory of Professor Klaus Rothfels (1919–1987) in recognition of his contributions to cytogenetics. **Genome** 1989 Aug;32(4):499–610

Interphase cytogenetics. Herrington CS, et al. **Neurochem Res** 1990 Apr;15(4):467–74 (46 ref.)

Cytogenetics: overview. Evans HJ. **Prog Clin Biol Res** 1990; 340B:301–23 (69 ref.)

[Experience with a computer database in a cytogenetic laboratory] Musilová J, et al. **Cas Lek Cesk** 1990 Jun 15; 129(24):742–4 (Eng. Abstr.) **(Cze)**

[Achievements and perspectives in human cytogenetics] Salamanca Gómez F. **Rev Invest Clin** 1989 Jul–Sep; 41(3):265–86 (130 ref.) (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

System for flow sorting chromosomes on the basis of pulse shape. Bartholdi MF, et al. **Cytometry** 1990;11(1):165–72

METHODS

Breast cancer cytogenetics and beyond. Hainsworth PJ, et al. **Aust N Z J Surg** 1990 May;60(5):327–36 (119 ref.)

Analytical approaches to detection and characterization of disease-linked chromosome aberrations. Gray JW, et al. **Bone Marrow Transplant** 1990 Jul;6 Suppl 1:14–9 (23 ref.)

In situ hybridization analysis of isodicentric X-chromosomes with short arm fusion. Koch JE, et al. **Clin Genet** 1990 Jun;37(6):450–5

Analysis of mosaic states in amniotic fluid using the in-situ colony technique. Welborn JL, et al. **Clin Genet** 1990 Jul; 38(1):14–20

Anatomy of human genome by restriction endonucleases AluI, DdeI, HaeIII, HinfI, MobaI and RsaI, and their application in clinical cytogenetics. Babu A, et al. **Cytobios** 1990;62(248):7–19

An improved procedure for the cultivation and in situ chromosome preparation of monolayer cell cultures. Speit G, et al. **Cytobios** 1990;62(248):39–44

Direct nonradioactive in situ hybridization of somatic cell hybrid DNA to human lymphocyte chromosomes. Kievits T, et al. **Cytometry** 1990;11(1):105–9

An improved flow cytometric assay for somatic mutations at the glycophorin A locus in humans. Langlois RG, et al. **Cytometry** 1990;11(4):513–21

Isolation of giant DNA fragments from flow-sorted human chromosomes. Minoshima S, et al. **Cytometry** 1990; 11(4):539–46

Multiple fluorescence in situ hybridization. Nederlof PM, et al. **Cytometry** 1990;11(1):126–31

Chromosomal in situ suppression hybridization of human gonosomes and autosomes and its use in clinical cytogenetics. Jauch A, et al. **Hum Genet** 1990 Jul; 85(2):145–50

Failure to document fetal cells in maternal circulation using the Selypes-Lorencz "air-culture" cytogenetic technique [comment] Youssef M, et al. **Hum Genet** 1990 Jun; 85(1):133–4 Comment on: Hum Genet 1988 Aug;79(4):357–9.

The determination of megakaryocyte ploidy. Paulus JM, et al. **Int J Cell Cloning** 1990 Jul;8(4):227–35 (50 ref.)

Cytogenetic techniques for biological monitoring. Kelsey KT. **Occup Med** 1990 Jan–Mar;5(1):39–47 (41 ref.)

CYTOKERATIN see **KERATIN**

CYTOKINESIS see **CELL DIVISION**

CYTOKINETICS see **CELL CYCLE**

CYTOKININS see under **PLANT GROWTH REGULATORS**

CYTOLOGICAL TECHNICS

see related
CYTODIAGNOSIS

Selection of medium for serum-free primary culture of adult rat hepatocytes. Miyazaki M, et al. **Acta Med Okayama** 1990 Feb;44(1):9–12

An automated method to prepare cell suspensions from human biopsy samples for immunophenotyping by flow cytometry. Warzynski MJ, et al. **Am J Clin Pathol** 1990 Jan;93(1):104–8

Propagation of normal human epithelial cell populations using an in vivo culture system. Description and applications. Klein-Szanto AJ, et al. **Am J Pathol** 1982 Aug;108(2):231–9

Recent stereological methods for cell biology: a brief survey. Cruz-Orive LM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):L148–56 (67 ref.)

Magnetic separation of pinocytic vesicles of defined age from Entamoeba histolytica. Löhden U, et al. **Anal Biochem** 1989 Oct;182(1):77–83

A modification of "sail-sheet" culture technology. Tripathi SC, et al. **Biotechniques** 1989 May;7(5):454–5

Analysis of three-dimensional cell imaging obtained with optical microscopy techniques based on defocusing. Bianco B, et al. **Cell Biophys** 1989 Dec;15(3):189–99

The synthesis and immobilisation of cartilage-specific proteoglycan by human chondrocytes in different concentrations of agarose. Verbruggen G, et al. **Clin Exp Rheumatol** 1990 Jul–Aug;8(4):371–8

Abstracts for the XIV international meeting of the Society for Analytical Cytology. Asheville, North Carolina, March 18–23, 1990. **Cytometry Suppl** 1990;4:1–131

Islet cell culture in defined serum-free medium. Clark SA, et al. **Endocrinology** 1990 Apr;126(4):1895–903

Evidence for heterogeneity of the osteoblastic phenotype determined with clonal rat bone cells established from transforming growth factor-beta-induced cell colonies grown anchorage independently in semisolid medium. Guenther HL, et al. **Endocrinology** 1989 Oct; 125(4):2092–102

Reconstruction of thyroid follicles from isolated porcine follicle cells in three-dimensional collagen gel culture. Toda S, et al. **Endocrinology** 1990 Apr;126(4):2027–34

Cell culture techniques for the study of drug transport. Wilson G. **Eur J Drug Metab Pharmacokinet** 1990 Apr–Jun; 15(2):159–63 (29 ref.)

A method for the counting of mitochondria. Bahr GF, et al. **Exp Cell Res** 1966 Jan;41(1):99–108

The composition and metabolism of cells cultured in a modified filter-well apparatus. Dickson JA, et al. **Exp Cell Res** 1966 Mar;41(3):502–8

A practical method for large-scale plant tissue culture. Graebe JE, et al. **Exp Cell Res** 1966 Mar;41(3):509–20

A quantitative measurement of cell damage by means of 51Cr-binding. Scaife JF, et al. **Exp Cell Res** 1967 Jun; 46(3):612–5

The streaming liver: can the age of a hepatocyte be determined from its position on the portohepatic radius? Lamers WH. **Hepatology** 1990 Aug;12(2):372–4

Unsupervised classification of cell images using pyramid node

linking. Arman F, et al. **IEEE Trans Biomed Eng** 1990 Jun; 37(6):647–50

The role of imprint cytology in diagnosis of various bone and joint diseases. Arora HL, et al. **Indian J Cancer** 1990 Mar;27(1):38–45

Factors which affect growth of amniotic fluid cells. Mathew S, et al. **Indian J Med Res** 1990 Apr;92:86–8

Thickness measurements on V79–4 cells: a comparison between laser scanning confocal microscopy and electron microscopy. Townsend KM, et al. **Int J Radiat Biol** 1990 Sep;58(3):499–508

Continuous stressing of mouse interparietal suture fibroblasts in vitro. Yen EH, et al. **J Dent Res** 1990 Jan;69(1):26–30

The use of local entropy measures in edge detection for cytological image analysis. Barba J, et al. **J Microsc** 1989 Oct;156 (Pt 1):125–34

An easier, reproducible, and mass-production method to study the blood–brain barrier in vitro. Dehouck MP, et al. **J Neurochem** 1990 May;54(5):1798–801

Spontaneous development in vitro of a myelin basic protein-specific suppressor T cell line. Huang SK, et al. **J Neuroimmunol** 1989 Dec;25(2–3):177–83

Microdissection: a novel method for the study of intracellular inclusion bodies. Martin JE, et al. **J Pathol** 1990 Jan; 160(1):77–9

Isolation and preliminary characterization of pig primordial follicles. Greenwald GS, et al. **J Reprod Fertil** 1989 Nov; 87(2):561–71

Kupffer cell:hepatocyte cocultures release nitric oxide in response to bacterial endotoxin. Billiar TR, et al. **J Surg Res** 1990 Apr;48(4):349–53

Phenotypes and interactions of human melanocytes and keratinocytes in an epidermal reconstruction model. Valyi-Nagy IT, et al. **Lab Invest** 1990 Mar;62(3):314–24

Comparison of flow cytometry and retrospectively applied static cytometry on lymphoid tissue. Jones A, et al. **Pathology** 1990 Jan;22(1):5–9

Optimal formalin fixation and processing schedule of cell blocks from fine needle aspirates. Kung IT, et al. **Pathology** 1989 Apr;21(2):143–5

The effect of filtration on absolute and differential cell counts in fluid obtained at bronchoalveolar lavage. Kelly C, et al. **Respir Med** 1989 Mar;83(2):107–10

The science of biological specimen preparation for microscopy and microanalysis 1988. Proceedings of the 7th Pfefferkorn Conference. Sept. 11–16, 1988, Surrey, U.K. **Scanning Microsc Suppl** 1989;3:1–302

[Stereologic methods in pathology] Mattfeldt T. **Norm Pathol Anat (Stuttg)** 1990;52:1–300 (543 ref.) **(Ger)**

[Cytologic methods in dermatology] Haneke E, et al. **Z Hautkr** 1990 Feb;65(2):154, 157–60, 163–6 (32 ref.) (Eng. Abstr.) **(Ger)**

[Accelerated methods for studying gonadotoxic effects of substances] Ivanov IuV. **Gig Sanit** 1990 Jan;(1):72–4 **(Rus)**

[Cytologic endometrial diagnosis can improve the quality of health care] Bistoletti P, et al. **Lakartidningen** 1990 May 16;87(20):1765–6 **(Swe)**

ADVERSE EFFECTS

Young immunologist's finger [letter] Alemán-Hoey DD, et al. **J Rheumatol** 1989 Oct;16(10):1402

HISTORY

From koilocytosis to molecular biology: the impact of cytology on concepts of early human cancer. The 32nd Maude Abbott lecture. Koss LG. **Mod Pathol** 1989 Sep; 2(5):526–35 (58 ref.)

INSTRUMENTATION

Bioreactor for mammalian cell culture. Prokop A, et al. **Adv Biochem Eng Biotechnol** 1989;39:29–71 (177 ref.)

A device for aeration and mixing of cell and organelle suspensions during nuclear magnetic resonance studies. Bourne RM. **Anal Biochem** 1989 Oct;182(1):151–6

Optimal surface for impression cytology [letter] Refaat RF, et al. **Br J Ophthalmol** 1990 Apr;74(4):254

Novel instrumentation for multifield time–lapse cinemicrography. Kallman RF, et al. **Comput Biomed Res** 1990 Apr;23(2):115–29

Effect of focus on cell detection and recognition by the Cell Analyzer. Spadinger I, et al. **Cytometry** 1990;11(4):460–7

Automated cell analysis for DNA studies of large cell populations using the LEYTAS image cytometry system. Ploem JS, et al. **Pathol Res Pract** 1989 Nov;185(5):671–5

Growth and differentiation of opossum kidney cells on microscopically transparent microporous membranes. Leiderman LJ, et al. **Tissue Cell** 1989;21(3):355–60

[The use of computers in hematologic cytologic studies] Kozinets GI, et al. **Lab Delo** 1990;(3):21–5 (16 ref.) (Eng. Abstr.) **(Rus)**

STANDARDS

An approach to the problem of false negatives in gynecologic cytologic screening. Hindman WM. **Acta Cytol** 1989 Nov–Dec;33(6):814–8

Statistical measurements of accuracy in cervical cytology. Mitchell H. **Acta Cytol** 1989 Nov–Dec;33(6):819–24

Fine needle aspiration biopsy cytology in diagnosis of salivary gland tumours. Mondal A, et al. **J Indian Med Assoc** 1989 May;87(5):108–10

Detection of conditions related to human papillomavirus. Comparison of cytology, colposcopy, histology and hybridization. Spitzer M, et al. **J Reprod Med** 1990 Jul; 35(7):697–703

VETERINARY

[The technic of fine-needle aspiration cytology] van den Ingh TS, et al. **Tijdschr Diergeneeskd** 1989 Jul 1;114(13):713–9 (Eng. Abstr.) **(Dut)**

CYTOLOGY

see related
CELL NUCLEUS
CYTOPLASM

ECONOMICS

Cost–effective services in cytology [letter; comment] Bryant J. **Acta Cytol** 1990 May–Jun;34(3):463–4 Comment on: Acta Cytol 1990 Jan–Feb;34(1):1–9.

HISTORY

[Albert Claude and the beginnings of modern cell biology] de Duve C. **Cellule** 1987;74:11–9 **(Fre)**

TRENDS

The future of cytology. The Wachtel lecture for 1988 [see comments] Koss LG. **Acta Cytol** 1990 Jan–Feb;34(1):1–9 (80 ref.) Comment in: Acta Cytol 1990 May–Jun;34(3):463–4.

CYTOLYSINS see **CYTOTOXINS**

CYTOMEGALIC INCLUSION DISEASE

Other common types of viral hepatitis and exotic infections. Griffiths PD, et al. **Br Med Bull** 1990 Apr;46(2):512–32 (70 ref.)

Cytomegalovirus infection among employees of a children's hospital [letter] Farr B, et al. **JAMA** 1990 Jul 11;264(2):185

Proctitis associated with cytomegalovirus and HIV infection in a homosexual man [letter] McMinn PC, et al. **Med J Aust** 1990 Feb 5;152(3):165–6

Myelography in patients with acquired immuno deficiency syndrome. Indications and results. Borgstein BJ, et al. **Neuroradiology** 1989;31(4):326–30

[Cytomegalovirus infection in neonate—report of two cases] Wong HC, et al. **Chang Keng I Hsueh** 1989 Dec 20; 12(4):225–31 (Eng. Abstr.) **(Chi)**

[Outbreak of ulcerative colitis superinfected with cytomegalovirus. Presentation of a case (letter)] Baliellas C, et al. **Med Clin (Barc)** 1990 Apr 7;94(13):515 **(Spa)**

BLOOD

Cytomegalovirus and legionella species as the cause of liver enzyme elevations in haemodialysis patients [see comments] Cunha A, et al. **J Hosp Infect** 1989 Aug;14(2):95–8 Comment in: J Hosp Infect 1990 Feb;15(2):198–9.

[A case from practice (174). Acute cytomegalovirus infection with mononucleosis-like changes in the blood picture] Skoda C. **Schweiz Rundsch Med Prax** 1990 Apr 17; 79(16):507–9 **(Ger)**

CHEMICALLY INDUCED

Altered susceptibility to viral respiratory infection during short–term exposure to nitrogen dioxide. Rose RM, et al. **Res Rep Health Eff Inst** 1989 Mar;(24):1–24

COMPLICATIONS

Syndrome of resistance to thyroid hormone in an infant with congenital cytomegalovirus infection. Hirano T, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Aug;31(4):504–8

Bowel obstruction in an infant with AIDS. Sivit CJ, et al. **AJR Am J Roentgenol** 1990 Apr;154(4):803–5

Massive esophageal bleeding from cytomegalovirus esophagitis [letter] Mayeux GP, et al. **Am J Gastroenterol** 1990 May;85(5):626

Cytomegalovirus-associated appendicitis in a patient with the acquired immunodeficiency syndrome. Lin J, et al. **Am J Med** 1990 Sep;89(3):377–9

Severe visual loss related to isolated peripapillary retinal and optic nerve head cytomegalovirus infection. Gross JG, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):691–8

Cytomegalovirus in the lungs of patients with AIDS. Respiratory pathogen or passenger? Millar AB, et al. **Am Rev Respir Dis** 1990 Jun;141(6):1474–7

Cytomegalovirus esophagitis in patients with AIDS. A clinical, endoscopic, and pathologic correlation. Wilcox CM, et al. **Ann Intern Med** 1990 Oct 15;113(8):589–93

Cutaneous cytomegalovirus or disseminated verrucous varicella zoster [letter; comment] Berger TG. **Arch Dermatol** 1990 Apr;126(4):537–9 Comment on: Arch Dermatol 1989 Sep;125(9):1243–6.

Acute graft–vs–host disease in an immunodeficient newborn possibly due to cytomegalovirus infection. Tawfik N, et al. **Arch Dermatol** 1989 Dec;125(12):1685–8

Extraretinal cytomegalovirus infection following retinal reattachment surgery in a patient with acquired immunodeficiency syndrome [letter] Margo CE, et al. **Arch Ophthalmol** 1990 Sep;108(9):1215–6

Graft–versus–leukaemia activity associated with CMV–seropositive donor, post–transplant CMV infection, young donor age and chronic graft–versus–host disease in bone marrow allograft recipients. The Nordic Bone Marrow Transplantation Group. Jacobsen N, et al. **Bone Marrow Transplant** 1990 Jun;5(6):413–8

A man of 58 presents acutely ill with clinical haematological and serological features of diffuse, active SLE. Bresnihan B. **Br J Rheumatol** 1990 Jun;29(3):170

AIDS presenting as cytomegalovirus cystitis. Lucas SB, et al. **Br J Urol** 1989 Oct;64(4):429–30

Cytomegalovirus in the bronchoalveolar lavage fluid of patients with AIDS. Miles PR, et al. **Chest** 1990 May; 97(5):1072–6

Cytomegalovirus necrotizing bronchiolitis with HIV infection. Vasudevan VP, et al. **Chest** 1990 Feb;97(2):483–4

Intellectual ability of children after perinatal cytomegalovirus infection. Gentile MA, et al. **Dev Med Child Neurol** 1989 Dec;31(6):782–6

Ascites related to cytomegalovirus infection [letter; comment] Ozsoylu S, et al. **Eur J Pediatr** 1989 Nov; 149(2):142–3 Comment on: Eur J Pediatr 1989 Apr;148(6):531–2.

Cytomegalovirus–associated acute pancreatic disease in patients with acquired immunodeficiency syndrome. Report of two patients. Wilcox CM, et al. **Gastroenterology** 1990 Jul;99(1):263–7

Atypical presumed CMV retinitis. To KW, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(6):535–7

Infection–associated vascular lesions in acquired immunodeficiency syndrome patients. Abrams J, et al. **Hum Pathol** 1989 Oct;20(10):1025–6

Cytomegalovirus infection of adipose tissues induces steatitis in adult mice. Price P, et al. **Int J Exp Pathol** 1990 Aug; 71(4):557–71

Seroepidemiologic studies of cytomegalovirus and Epstein–Barr virus infections in relation to human immunodeficiency virus type 1 infection in selected recipient populations. Transfusion Safety Study Group. Lang DJ, et al. **J Acquir Immune Defic Syndr** 1989; 2(6):540–9

Comparative recovery of cytomegalovirus from saliva, mucolysed induced sputum, and bronchoalveolar lavage fluid from patients at risk for or with acquired immunodeficiency syndrome. Rush JD, et al. **J Clin Microbiol** 1989 Dec;27(12):2864–5

Cytomegalovirus and autoimmune liver disease [letter] Theise ND, et al. **J Clin Pathol** 1989 Dec;42(12):1310–1

Bilateral adrenal hypertrophy in an AIDS patient with multivisceral human cytomegalovirus infection [letter] Lortholary O, et al. **J Infect Dis** 1990 Mar;161(3):585–6

Cerebral venous thrombosis and dual primary infection with human immunodeficiency virus and cytomegalovirus. Meyohas MC, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):1010–1

CMV enteritis causing hemorrhage and obstruction in an infant with AIDS. Dolgin SE, et al. **J Pediatr Surg** 1990 Jun;25(6):696–8

Landry–Guillain–Barré–Strohl syndrome in pregnancy. A report of two cases. May SE, et al. **J Reprod Med** 1989 Aug;34(8):550–2

Possible role of cytomegalovirus in atherogenesis. Melnick JL, et al. **JAMA** 1990 Apr 25;263(16):2204–7 (20 ref.)

Simultaneous primary infection with HIV and CMV leading to severe pancytopenia, hepatitis, nephritis, perimyocarditis, myositis, and alopecia totalis. Schindler JM, et al. **Klin Wochenschr** 1990 Feb 15;68(4):237–40

Viremia and glial nodule encephalitis after experimental systemic cytomegalovirus infection. Booss J, et al. **Lab Invest** 1989 Dec;61(6):644–9

Painful peripheral neuropathy and cytomegalovirus pneumonia in AIDS [letter; comment] **Lancet** 1989 Dec 2;2(8675):1329–30 Comment on: Lancet 1989 Oct 21;2(8669):937–41.

Association of painful peripheral neuropathy in AIDS with cytomegalovirus infection [see comments] Fuller GN, et al. **Lancet** 1989 Oct 21;2(8669):937–41 Comment in: Lancet 1989 Dec 2;2(8675):1329–30.

Relationship between human immunodeficiency virus antigenemia and cytomegalovirus infection. Lazzarotto T, et al. **Microbiologica** 1990 Jan;13(1):61–5

Longitudinal study of cytomegalovirus retinitis in acquired immune deficiency syndrome. Gross JG, et al. **Ophthalmology** 1990 May;97(5):681–6

Survival of patients with the acquired immune deficiency syndrome after development of cytomegalovirus retinopathy. UCLA CMV Retinopathy Study Group. Holland GN, et al. **Ophthalmology** 1990 Feb;97(2):204–11

Cytomegalovirus vasculitis and colon perforation in a patient with the acquired immunodeficiency syndrome. Tatum ET, et al. **Pathology** 1989 Oct;21(4):235–8

Systemic cytomegalovirus in a patient with the keratitis, ichthyosis, and deafness (KID) syndrome. Helm K, et al. **Pediatr Dermatol** 1990 Mar;7(1):54–6

Intestinal cytomegalovirus ganglioneuronitis in children with human immunodeficiency virus infection. Anderson VM, et al. **Pediatr Pathol** 1990;10(1–2):167–74 (18 ref.)

Cytomegalovirus and human herpesvirus–6 in sudden infant death syndrome: an in situ hybridization study. Coumbe

A, et al. **Pediatr Pathol** 1990;10(4):483–90

Hepatic fibrosis in congenital cytomegalovirus infection: with fetal ascites and pulmonary hypoplasia. Sun CC, et al. **Pediatr Pathol** 1990;10(4):641–6 (9 ref.)

Severe haemolytic anaemia due to cold anti-'i' antibodies associated with cytomegalovirus infection. Aguado JM, et al. **Postgrad Med J** 1990 May;66(775):392–4

Is human immunodeficiency virus (HIV) rather than cytomegalovirus the cause of retinitis and colitis in HIV-infected patients? Morris DJ. **Rev Infect Dis** 1990 May–Jun;12(3):557–9

Severe pancreatitis in an AIDS patient in association with cytomegalovirus infection. Joe L, et al. **South Med J** 1989 Nov;82(11):1444–5

Isolation of cytomegalovirus from the lung tissue of patients with intrapulmonary neoplasma. Oizumi K, et al. **Tohoku J Exp Med** 1989 Aug;158(4):335–6

Cytomegalovirus infection in low-birth-weight infants with acute respiratory tract disease. Tazawa Y, et al. **Tohoku J Exp Med** 1989 Jul;158(3):221–6

Pancreatic allograft loss secondary to periallograft gastrointestinal cytomegalovirus ulceration. Dunn DL, et al. **Transplant Proc** 1990 Apr;22(2):678–9

Influence of chronic cytomegalovirus and hepatitis B virus infections on the outcome of renal transplantation. Pouteil-Noble C, et al. **Transplant Proc** 1990 Aug; 22(4):1820–1

Evidence for cytomegalovirus and human immunodeficiency virus infection of the retina in AIDS. Schmitt-Gräff A, et al. **Virchows Arch [A]** 1990;416(3):249–53

Identification of cytomegalovirus infection in acquired immunodeficiency syndrome. Tomita T, et al. **Virchows Arch [A]** 1990;416(6):497–503

[The role of cytomegaloviruses in childhood deafness] Lobovská A, et al. **Cas Lek Cesk** 1990 May 25; 129(21):654–6 (Eng. Abstr.) **(Cze)**

[Porphyria cutanea tarda in a patient undergoing bone marrow transplant. Addition of chronic cytomegalovirus hepatitis and multiple hepatic aggressions] Augey F, et al. **Ann Dermatol Venereol** 1990;117(5):363–6 **(Fre)**

[Primary cytomegalovirus infection and duodenal ulcer in a non-immunosuppressed adult (letter)] Raguin G, et al. **Ann Med Interne (Paris)** 1989;140(6):531–2 **(Fre)**

[HIV-1 primo-infection and cytomegalovirus reactivation in 2 intravenous drug users. Prognostic significance (letter)] Routy JP, et al. **Ann Med Interne (Paris)** 1990;141(2):194–5 **(Fre)**

[Neonatal cytomegalovirus infection with development of liver fibrosis] Le Luyer B, et al. **Arch Fr Pediatr** 1990 May; 47(5):361–4 (12 ref.) (Eng. Abstr.) **(Fre)**

[Benign hypertrophic gastritis associated with cytomegalovirus infection] Roussel M, et al. **Arch Fr Pediatr** 1990 Apr;47(4):271–3 (Eng. Abstr.) **(Fre)**

[Acute bilateral glaucoma in an LAV-positive subject] Meige P, et al. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):449–54 (Eng. Abstr.) **(Fre)**

[Parsonage-Turner syndrome after cytomegalovirus infection (letter)] Seror P, et al. **Presse Med** 1990 Mar 24; 19(11):527–8 **(Fre)**

[Complete remission of type I diabetes mellitus in infancy following cytomegalovirus infection] Mix M, et al. **Monatsschr Kinderheilkd** 1989 Sep;137(9):620–2 (Eng. Abstr.) **(Ger)**

[Chronic, fatal, neonatally-acquired cytomegalovirus disease with hypereosinophilia and multiple organ involvement] Ramelli GP, et al. **Schweiz Med Wochenschr** 1990 Apr 28; 120(17):632–40 (Eng. Abstr.) **(Ger)**

[Gastrointestinal cytomegalovirus manifestations in AIDS] Heise W, et al. **Z Gastroenterol** 1989 Dec;27(12):725–30 (Eng. Abstr.) **(Ger)**

[Cardiac rhythm disorder in infection caused by cytomegalovirus in patients with kidney transplant] Maresca MC, et al. **Medicina (Firenze)** 1989 Jul–Sep; 9(3):301–4 (Eng. Abstr.) **(Ita)**

[An autopsy case of cytomegalic inclusion disease with severe enteritis and jaundice] Notsumata K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1228–31 **(Jpn)**

[Guillain-Barré syndrome and disturbance in multiple organs associated with cytomegalovirus infection] Harada T, et al. **No To Shinkei** 1990 Mar;42(3):245–51 (Eng. Abstr.) **(Jpn)**

[Gastric ulcer as a unique and symptomatic manifestation of infection by cytomegalovirus in a healthy adult] Forné M, et al. **Med Clin (Barc)** 1989 Dec 9;93(19):743–4 (Eng. Abstr.) **(Spa)**

[Massive lower digestive hemorrhage secondary to cytomegalovirus colitis in a patient with acquired immunodeficiency syndrome (letter)] Pedreira JD, et al. **Med Clin (Barc)** 1989 Sep 16;93(7):276 **(Spa)**

[Esophageal ulcer caused by cytomegalovirus treated with ganciclovir (letter)] Repáraz Padrós J, et al. **Med Clin (Barc)** 1990 Mar 17;94(10):396 **(Spa)**

CONGENITAL

Congenital cytomegalovirus infection associated with fetal ascites and intrahepatic calcifications. Yamashita Y, et al. **Acta Paediatr Scand** 1989 Nov;78(6):965–7

Prenatal diagnosis of congenital cytomegalovirus infection: two decades later. Grose C, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):447–50

Prenatally acquired cytomegalovirus encephalopathy. Wurtzel D, et al. **Am J Perinatol** 1990 Jul;7(3):263–5

Congenital infiltrating lipomatosis of the face related to cytomegalovirus infection. Donati L, et al. **Br J Plast Surg** 1990 Jan;43(1):124–6

Congenital cytomegalovirus infection in a twin pregnancy: a case report. Duvekot JJ, et al. **Eur J Pediatr** 1990 Jan; 149(4):261–2

Outcome in children with symptomatic congenital cytomegalovirus infection. Bale JF Jr, et al. **J Child Neurol** 1990 Apr;5(2):131–6

Prevention of congenital cytomegalovirus disease [letter; comment] Morris DJ. **J Infect Dis** 1990 Jan;161(1):149–50 Comment on: J Infect Dis 1989 Feb;159(2):163–7.

Congenital cytomegalovirus labyrinthitis and sensorineural hearing loss in guinea pigs. Woolf NK, et al. **J Infect Dis** 1989 Dec;160(6):929–37

A preterm infant with a fatal congenital cytomegalovirus CMV infection [letter] Salvador A, et al. **J Perinatol** 1990 Jun;10(2):228–9

Congenital cytomegalovirus infection as a preventable complication of maternal transfusion. A case report. McGregor JA, et al. **J Reprod Med** 1990 Jan;35(1):61–4

CMV in pregnancy case report and review of literature. Shershah S, et al. **JPMA** 1989 Sep;39(9):246–7 (13 ref.)

Autism as one of several disabilities in two children with congenital cytomegalovirus infection. Ivarsson SA, et al. **Neuropediatrics** 1990 May;21(2):102–3

Impact of asymptomatic congenital cytomegalovirus infection on size at birth and gestational duration [published erratum appears in Pediatr Infect Dis J 1990 May;9(5):308] Berge P, et al. **Pediatr Infect Dis J** 1990 Mar;9(3):170–5

Effectiveness and cost benefit of a proposed live cytomegalovirus vaccine in the prevention of congenital disease. Porath A, et al. **Rev Infect Dis** 1990 Jan–Feb; 12(1):31–40

[Diagnosis of congenital CMV infection by specific CMV IgM antibody in cord serum with ELISA] Guo TL, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec; 20(4):422–5 (Eng. Abstr.) **(Chi)**

[A 9-week-old infant with congenital cytomegalic inclusion disease and therapy with ganciclovir (clinical conference)] Muntean W, et al. **Wien Klin Wochenschr** 1989 Sep 1; 101(16):554–7 **(Ger)**

[Application of electron microscopy in the rapid diagnosis of congenital cytomegalovirus infections (letter)] Margall N, et al. **Med Clin (Barc)** 1989 May 27;92(20):794–5 **(Spa)**

DIAGNOSIS

Human cytomegalovirus: pathology, diagnosis, treatment. Colimon R, et al. **Adv Nephrol** 1990;19:333–56 (164 ref.)

The significance of the detection of cytomegalovirus in the bronchoalveolar lavage fluid in AIDS patients with pneumonia. Bower M, et al. **AIDS** 1990 Apr;4(4):317–20

Three sensitive methods for the detection of cytomegalovirus in lung tissue of patients with interstitial pneumonitis. Jiwa M, et al. **Am J Clin Pathol** 1990 Apr;93(4):491–4

Clinical comparison of two assays for rapid detection of cytomegalovirus early nuclear antigen. Woods GL, et al. **Am J Clin Pathol** 1990 Mar;93(3):373–7

Fetal cytomegalovirus infection: a case report. Meisel RL, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):663–4

Cryptosporidial carriage without symptoms in the acquired immunodeficiency syndrome (AIDS) [letter] Janoff EN, et al. **Ann Intern Med** 1990 Jan 1;112(1):75–6

Cytomegalovirus is frequently isolated in bronchoalveolar lavage fluid of bone marrow transplant recipients without pneumonia. Ruutu P, et al. **Ann Intern Med** 1990 Jun 15; 112(12):913–6

Detection of cytomegalovirus-infected cells in autopsy material by in situ hybridization. Andersen CB. **APMIS** 1990 Apr;98(4):363–8

Acute ulcerative proctocolitis associated with primary cytomegalovirus infection. Diepersloot RJ, et al. **Arch Intern Med** 1990 Aug;150(8):1749–51

Sputum induction as an aid to diagnosis of active cytomegalovirus infection following bone marrow transplantation. Foot AB, et al. **Bone Marrow Transplant** 1990 Apr;5(4):283–4

Detection of cytomegalovirus in bronchoalveolar lavage specimens. Spin amplification and staining with a monoclonal antibody to the early nuclear antigen for diagnosis of cytomegalovirus pneumonia. Woods GL, et al. **Chest** 1990 Sep;98(3):568–75

Rapid early diagnosis of cytomegalovirus infection. Griffiths PD, et al. **Folia Haematol (Leipz)** 1989;116(3–4):553–5

Rapid detection of human cytomegalovirus in immunocompromised patients. Del Pezzo M, et al. **G Batteriol Virol Immunol** 1988 Jan–Dec;81(1–12):25–31

Isolated cytomegalovirus ileitis detected by colonoscopy. Lepinski SM, et al. **Gastroenterology** 1990 Jun;98(6):1704–6

Early diagnosis of cytomegalovirus hepatitis in liver transplant recipients: role of immunostaining, DNA hybridization and culture of hepatic tissue. Paya CV, et al. **Hepatology** 1990 Jul;12(1):119–26

In situ detection of cytomegalovirus DNA in biopsies of AIDS patients using a hybrido-immunocytochemical assay. Musiani M, et al. **Histochemistry** 1990;94(1):21–5

CMV infection in young women. Yow MD. **Hosp Pract [Off]** 1990 Mar 30;25(3A):61–5, 69, 72–9 (12 ref.)

Persistence of human cytomegalovirus DNA sequences without cell-virus homology in human placental explants in culture. Amirhessami-Aghili N, et al. **Int J Fertil** 1989 Nov–Dec;34(6):411–9

Comparison of monoclonal antibodies for rapid detection of cytomegalovirus in spin-amplified plate cultures. Ashley R, et al. **J Clin Microbiol** 1989 Dec;27(12):2858–60

Direct detection of cytomegalovirus from bronchoalveolar lavage samples by using a rapid in situ DNA hybridization assay. Gleaves CA, et al. **J Clin Microbiol** 1989 Nov; 27(11):2429–32

Evaluation of a latex particle agglutination assay for the detection of cytomegalovirus antibody in patient serum. Hursh DA, et al. **J Clin Microbiol** 1989 Dec;27(12):2878–9

Large-scale screening of human sera with cytomegalovirus recombinant antigens. Landini MP, et al. **J Clin Microbiol** 1990 Jun;28(6):1375–9

Comparison of immunoblotting with other serological methods and virus isolation for the early detection of primary cytomegalovirus infection in allograft recipients. Miller H, et al. **J Clin Microbiol** 1989 Dec;27(12):2672–7

Comparison of conventional and shell vial cultures for detecting cytomegalovirus infection. Rabella N, et al. **J Clin Microbiol** 1990 Apr;28(4):806–7

Human cytomegalovirus: recent aspects from molecular biology. Mach M, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3117–46 (241 ref.)

Cytomegalovirus myocarditis in a heart transplant recipient: sensitive monitoring of viral DNA by the polymerase chain reaction. Powell KF, et al. **J Heart Transplant** 1989 Nov–Dec;8(6):465–70

A hybrido-immunocytochemical assay for the in situ detection of cytomegalovirus DNA using digoxigenin-labeled probes. Gentilomi G, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):177–83

Comparison of culture and serology for the diagnosis of cytomegalovirus infection in kidney and liver transplant recipients. Marsano L, et al. **J Infect Dis** 1990 Mar; 161(3):454–61

Cytomegalovirus excretion as a predictor of cytomegalovirus disease after marrow transplantation: importance of cytomegalovirus viremia. Meyers JD, et al. **J Infect Dis** 1990 Aug;162(2):373–80

Immunohistochemical detection of an immediate early antigen of human cytomegalovirus in normal tissues. Toorkey CB, et al. **J Infect Dis** 1989 Nov;160(5):741–51

Nested polymerase chain reaction assay for the detection of cytomegalovirus overcomes false positives caused by contamination with fragmented DNA. Porter-Jordan K, et al. **J Med Virol** 1990 Feb;30(2):85–91

Cytomegalovirus (CMV) enterocolitis [letter] Banerjee AK. **J R Soc Med** 1989 Jul;82(7):446

DNA probe technique for diagnosis of human cytomegalovirus infection. Zhang X, et al. **J Tongji Med Univ** 1989;9(3):170–3

Rubella and cytomegalovirus (CMV) infections: laboratory aspects of investigation of antenatal, congenital, persistent, and subclinical infections. Hossain A, et al. **J Trop Pediatr** 1989 Oct;35(5):225–9

Discordant results obtained on testing sera from immunocompromised patients for cytomegalovirus IgG by enzyme-linked immunosorbent assay and radioimmunoassay. Booth JC, et al. **J Virol Methods** 1989 Oct;26(1):77–89

Hybridization techniques provide improved sensitivity for HCMV detection and allow quantitation of the virus in clinical samples. Einsele H, et al. **J Virol Methods** 1989 Oct;26(1):91–104

Comparison of polyethylene glycol precipitation and ultracentrifugation for recovery of cytomegalovirus from urine prior to detection of DNA by dot-blot hybridisation. Kimpton CP, et al. **J Virol Methods** 1990 May;28(2):141–5

TORCH syndrome and TORCH screening. **Lancet** 1990 Jun 30;335(8705):1559–61 (27 ref.)

A prospective study of a rapid method for diagnosing cytomegalovirus infections in immunosuppressed patients. Aguado S, et al. **Nephron** 1989;53(4):322–4

Internationally adopted children and cytomegalovirus [letter; comment] Barton LL, et al. **Pediatrics** 1989 Nov; 84(5):937–8 Comment on: Pediatrics 1989 Apr;83(4):559–64.

Multifocal cytomegalovirus-associated hepatic lesions simulating metastases in AIDS. Vieco PT, et al. **Radiology** 1990 Jul;176(1):123–4

Diagnosis of cytomegalovirus infection. Spector SA. **Semin Hematol** 1990 Apr;27(2 Suppl 1):11–6; discussion 28–9 (19 ref.)

Difference in onset between cytomegalovirus and idiopathic interstitial pneumonitis following allogeneic bone marrow transplantation for leukemia. Inoue T, et al. **Strahlenther Onkol** 1990 May;166(5):322–5

Cytomegalovirus retinitis. Hennis HL, et al. **Surv Ophthalmol** 1989 Nov–Dec;34(3):193–203 (121 ref.)

Rapid laboratory diagnosis of human cytomegalovirus infection using monoclonal antibody. Kao CL, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Mar;89(3):199–204

Detection of cytomegalovirus-specific early antigens from blood leukocytes and bronchoalveolar lavage cells in the diagnosis of active cytomegalovirus infection in transplant patients. Lautenschlager I, et al. **Transplant Proc** 1990 Feb; 22(1):233

The clinical application of a rapid diagnostic test for the

detection of cytomegalovirus infection in renal transplant recipients. Lui SF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2129–30

Detection of cytomegalovirus infection under therapy with OKT3 monoclonal antibodies. Müller T, et al. **Transplant Proc** 1990 Aug;22(4):1807–8

Proliferative response against cytomegalovirus and prognosis of renal transplant and IgA nephropathy patients. Sakamaki T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2135–6

Experience of cytomegalovirus infection in heart–lung transplant recipients. Smyth RL, et al. **Transplant Proc** 1990 Aug;22(4):1820–1

Donor selection for orthotopic liver transplantation: lack of an effect of gender or cytomegalovirus (CMV) status. Stratta RJ, et al. **Transplant Proc** 1990 Apr;22(2):410–3

Recent advances in the diagnosis of active cytomegalovirus infection after organ transplantation. van den Berg AP, et al. **Transplant Proc** 1990 Feb;22(1):226–8

Early identification of patients at high risk of severe cytomegalovirus disease after renal transplantation using the immediate early antigenemia assay. van den Berg AP, et al. **Transplantation** 1989 Dec;48(6):991–5

[Experiences with a "rapid test" in detecting antibodies to cytomegalovirus] Milbradt H. **Klin Wochenschr** 1989 Aug 17;67(16):839–40 (Eng. Abstr.) **(Ger)**

[Diagnosis and clinical aspects of gastrointestinal cytomegalovirus diseases in patients with human immunodeficiency virus 1 infection] Schrappe–Bächer M, et al. **Klin Wochenschr** 1989 Nov 3;67(21):1108–15 (Eng. Abstr.) **(Ger)**

[Cytomegalovirus infection following kidney transplantation. The current status of knowledge] Ziegenhagen DJ. **Med Klin** 1990 Jan 15;85(1):32–6, 56 (51 ref.) **(Ger)**

[Cytomegalovirus (CMV) infection: a frequent and life–threatening complication in heart transplant patients] Mohacsi P, et al. **Ther Umsch** 1990 Feb;47(2):157–63 (Eng. Abstr.) **(Ger)**

[Diagnosis of cytomegalovirus infection] Nakamura K. **Nippon Rinsho** 1990 Feb;48 Suppl:320–3 **(Jpn)**

[Evaluation of IgM anti human cytomegalovirus antibody] Aochi H, et al. **Rinsho Byori** 1990 Jul;38(7):789–93 (Eng. Abstr.) **(Jpn)**

[Cytomegalovirus infection in clinical medicine] Farber NA. **Ter Arkh** 1989;61(11):6–11 (33 ref.) (Eng. Abstr.) **(Rus)**

[Viral infections in patients on chronic hemodialysis] Petrović R, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):589–94 (Eng. Abstr.) **(Scc)**

[Mononucleosis caused by cytomegalovirus] Lajo Plaza A, et al. **An Esp Pediatr** 1990 Jan;32(1):20–3 (Eng. Abstr.) **(Spa)**

[Rapid diagnosis of cytomegalovirus in immunocompromised patients using monoclonal antibodies that detect early viral antigens] Alvarez M, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;84(2):265–8 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Therapy for cytomegalovirus polyradiculomyelitis in patients with AIDS: treatment with ganciclovir. de Gans J, et al. **AIDS** 1990 May;4(5):421–5

Successful treatment of renal allograft rejection in the presence of cytomegalovirus disease. A report of two cases. Burns KD, et al. **Am J Nephrol** 1990;10(2):162–6

Prevention of foscarnet nephrotoxicity [letter] Deray G, et al. **Ann Intern Med** 1990 Aug 15;113(4):332

Nephrogenic diabetes insipidus associated with foscarnet treatment of cytomegalovirus retinitis. Farese RV Jr, et al. **Ann Intern Med** 1990 Jun 15;112(12):955–6

Toxicity of combined ganciclovir and zidovudine for cytomegalovirus disease associated with AIDS. An AIDS Clinical Trials Group Study. Hochster H, et al. **Ann Intern Med** 1990 Jul 15;113(2):111–7

Ganciclovir for the treatment of cytomegalovirus gastroenteritis in bone marrow transplant patients. A randomized, placebo–controlled trial. Reed EC, et al. **Ann Intern Med** 1990 Apr 1;112(7):505–10

Effect of 2'–nor–cyclic GMP against guinea pig cytomegalovirus infection. Yang ZH, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1563–8

Cytomegalovirus infection in immunocompromised guinea pigs: a model for testing antiviral agents in vivo. Aquino–de Jesus MJ, et al. **Antiviral Res** 1989 Nov;12(4):181–93

Activity of (S)–1–(3–hydroxy–2–phosphonylmethoxypropyl)cytosine (HPMPC) against guinea pig cytomegalovirus infection in cultured cells and in guinea pigs. Li SB, et al. **Antiviral Res** 1990 May;13(5):237–52

Intraocular antiviral therapy. Freeman WR. **Arch Ophthalmol** 1989 Dec;107(12):1737–9

Long–term intravitreal ganciclovir therapy for cytomegalovirus retinopathy. Heinemann MH. **Arch Ophthalmol** 1989 Dec;107(12):1767–72

A controlled retrospective study of ganciclovir treatment for cytomegalovirus retinopathy. Use of a standardized system for the assessment of disease outcome. UCLA CMV Retinopathy. Study Group. Holland GN, et al. **Arch Ophthalmol** 1989 Dec;107(12):1759–66

Globular changes in cytomegaloviral inclusions after Ganciclovir treatment. Hruban Z, et al. **Arch Virol** 1989; 108(3–4):287–93

High–dose intravitreal gancyclovir for cytomegaloviral (CMV) retinitis. Heery S, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):405–8

Successful treatment of CMV retinitis with ganciclovir after allogeneic marrow transplantation. Kaulfersch W, et al. **Bone Marrow Transplant** 1989 Sep;4(5):587–9

Use of ganciclovir in the treatment of cytomegalovirus infections. Henderson JR. **Br J Clin Pract** 1989 Jul; 43(7):233–7

Intravitreal therapy with ganciclovir for posterior pole cytomegalovirus retinitis in AIDS patients [letter] Orellana J, et al. **Br J Ophthalmol** 1990 Aug;74(8):511

Long–term outpatient treatment of CMV retinitis with ganciclovir in AIDS patients. Weisenthal RW, et al. **Br J Ophthalmol** 1989 Dec;73(12):996–1001

Management of cytomegalovirus infection in patients with acquired immunodeficiency syndrome. Pau AK, et al. **Clin Pharm** 1990 Aug;9(8):613–31 (145 ref.)

Criteria for use of ganciclovir in adult and pediatric patients. Todd MW. **Clin Pharm** 1990 Aug;9(8):644–7 (17 ref.)

Ganciclovir. A review of its antiviral activity, pharmacokinetic properties and therapeutic efficacy in cytomegalovirus infections. Faulds D, et al. **Drugs** 1990 Apr;39(4):597–638 (178 ref.)

Treatment of cytomegalovirus retinitis with zidovudine and ganciclovir in patients with AIDS: outcome and toxicity. Millar AB, et al. **Genitourin Med** 1990 Jun;66(3):156–8

Foscarnet therapy of cytomegalovirus retinitis in AIDS. Fanning MM, et al. **J Acquir Immune Defic Syndr** 1990; 3(5):472–9

Ganciclovir—a review of pharmacology, therapeutic efficacy and potential use for treatment of congenital cytomegalovirus infections. Fan–Havard P, et al. **J Clin Pharm Ther** 1989 Oct;14(5):329–40 (59 ref.)

Ganciclovir infusion at home [letter] Nathwani D, et al. **J Infect** 1989 Nov;19(3):294

Treatment of acquired immune deficiency syndrome (AIDS)–related pneumonitis with foscarnet: a double–blind placebo controlled study. Youle M, et al. **J Infect** 1990 Jan;20(1):41–50

Cytomegalovirus cultures during maintenance DHPG therapy for cytomegalovirus (CMV) retinitis in acquired immunodeficiency syndrome (AIDS). Jennens ID, et al. **J Med Virol** 1990 Jan;30(1):42–4

GM–CSF and ganciclovir for cytomegalovirus infection after autologous bone–marrow transplantation [letter] Fouillard L, et al. **Lancet** 1989 Nov 25;2(8674):1273

Ganciclovir for lumbosacral polyradiculopathy in AIDS [letter] Fuller GN, et al. **Lancet** 1990 Jan 6;335(8680):48–9

Ganciclovir therapy of symptomatic cytomegalovirus infection in renal transplant recipients. Guerin C, et al. **Nephrol Dial Transplant** 1989;4(10):906–10

Evaluation by immune scanning electron microscopy of foscarnet treatment of cytomegalovirus infection in patients with renal transplants. Andersson J, et al. **Scand J Infect Dis** 1989;21(6):605–10

Cytomegalovirus retinitis treated with ganciclovir in a renal transplant recipient. Horng IH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Nov–Dec; 88(11–12):1152–5

Cytomegalovirus infection in orthotopic liver transplantation. Sayage LH, et al. **Transpl Int** 1989 Aug;2(2):96–101

Treatment of renal transplant–associated cytomegalovirus infection with ganciclovir. Nicholson ML, et al. **Transplant Proc** 1990 Aug;22(4):1811–2

Treatment of transplant rejection in the presence of cytomegalovirus viremia. O'Hair DP, et al. **Transplant Proc** 1990 Aug;22(4):1815–7

Efficacy of early treatment of cytomegalovirus infection by ganciclovir in renal transplant recipients. Rondeau E, et al. **Transplant Proc** 1990 Aug;22(4):1813–4

Ganciclovir in the treatment of severe cytomegalovirus disease in liver transplant patients. Salmela K, et al. **Transplant Proc** 1990 Feb;22(1):238–40

[Ganciclovir (DHPG)—treatment of cytomegalovirus retinitis in AIDS] Kaps D, et al. **Fortschr Ophthalmol** 1989; 86(6):600–3 (Eng. Abstr.) **(Ger)**

[Efficacy of ganciclovir against cytomegalovirus nephropathy after kidney transplantation] Ebihara K, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):644–8 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Prevalence of cytomegalovirus antibodies in Brazilian women of childbearing age and newborns. Linhares MI, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Oct;31(5):620–2

Perinatal cytomegalovirus infection in very low birth weight infants. Yau KI, et al. **Acta Paediatr Sin** 1989 Nov–Dec; 30(6):394–400

Cytomegalovirus infection among migrant children. Li F, et al. **Am J Epidemiol** 1967 Jul;86(1):137–41

Prevalence survey of cytomegalovirus infection in children in Chengdu. Liu Z, et al. **Am J Epidemiol** 1990 Jan; 131(1):143–50

Cytomegalovirus infection among women attending a sexually transmitted disease clinic: association with clinical symptoms and other sexually transmitted diseases. Pereira LH, et al. **Am J Epidemiol** 1990 Apr;131(4):683–92

High prevalence of latently present cytomegalovirus in arterial walls of patients suffering from grade III atherosclerosis. Hendrix MG, et al. **Am J Pathol** 1990 Jan; 136(1):23–8

Seroepidemiology of cytomegalovirus infection in the Northwest Territories of Canada. Preiksaitis JK, et al. **Arctic Med Res** 1988;47 Suppl 1:701–4

Serological markers of hepatitis B virus and cytomegalovirus infections in Norwegians with coagulation factor defects. Rollag H, et al. **Blut** 1990 Feb;60(2):93–6

A multivariate analysis of risk factors for cytomegalovirus infection in liver–transplant recipients. Gorensek MJ, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1326–32

The epidemiology of cytomegalovirus infection among patients with burns. Bale JF Jr, et al. **Infect Control Hosp Epidemiol** 1990 Jan;11(1):17–22

Cytomegalovirus hepatitis in liver transplantation: prospective analysis of 93 consecutive orthotopic liver transplantations. Paya CV, et al. **J Infect Dis** 1989 Nov; 160(5):752–8

Serological survey of antibodies to cytomegalovirus in the Santa Cruz region of Bolivia. Bartoloni A, et al. **J Trop Med Hyg** 1989 Dec;92(6):391–2

Prevalence of cytomegalovirus antibodies in Brazilian and Japanese populations in the north–east of Brazil. Linhares MI, et al. **Microbiol Immunol** 1989;33(11):975–80

Increased rate of cytomegalovirus infection among day care center workers. Pass RF, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):465–70

Epidemiology and pathogenesis of cytomegalovirus disease. Zaia JA. **Semin Hematol** 1990 Apr;27(2 Suppl 1):5–10; discussion 28–9 (25 ref.)

Cytomegalovirus antibodies in Nigeria. Williams JO, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):260

The risk of cytomegalovirus infection in solid organ and bone marrow transplant recipients: transfusion of blood products. Hillyer CD, et al. **Transfusion** 1990 Sep;30(7):659–66 (89 ref.)

Cytomegalovirus infections in liver transplant patients: incidence and outcome. Barkholt LM, et al. **Transplant Proc** 1990 Feb;22(1):235–7

[A study on cytomegalovirus infection in 199 pregnant women and their infants] Xu GL. **Chung Hua Fu Chan Ko Tsa Chih** 1989 May;24(3):130–2, 188 (Eng. Abstr.) **(Chi)**

[Cytomegalovirus infection and coronary sclerosis after heart transplantation] Loebe M, et al. **Dtsch Med Wochenschr** 1990 Aug 24;115(34):1266–9 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Epstein–Barr–virus–related post–bone–marrow–transplant lymphoproliferative disease: association with cytomegalovirus infection and Down syndrome donor marrow. Patton DF, et al. **Am J Pediatr Hematol Oncol** 1989 Winter;11(4):429–32

Association of cytomegalovirus infection with increased morbidity is independent of transfusion. Curtsinger LJ, et al. **Am J Surg** 1989 Dec;158(6):606–10; discussion 610–1

Cytomegalovirus infection after autologous bone marrow transplantation: occurrence of cytomegalovirus disease and effect on engraftment. Reusser P, et al. **Blood** 1990 May 1;75(9):1888–94

Cytomegalovirus infections in thalassemic patients after bone marrow transplantation. Baronciani D, et al. **Bone Marrow Transplant** 1990 Mar;5(3):167–72

Kaposi's sarcoma in immunosuppression. Possibly the result of a dual viral infection. Siegal B, et al. **Cancer** 1990 Feb 1;65(3):492–8

Incidence and morbidity of cytomegaloviral infection in patients with mediastinitis following cardiac surgery. Domart Y, et al. **Chest** 1990 Jan;97(1):18–22

Cytomegalovirus: more dangerous to the cardiac surgical patient than we thought? [editorial] Vander Salm TJ. **Chest** 1990 Jan;97(1):3

Cell activation signals and the pathogenesis of human cytomegalovirus. Albrecht T, et al. **Intervirology** 1990; 31(2–4):68–75 (24 ref.)

The pathogenesis of murine cytomegalovirus ocular infection. Anterior chamber inoculation. Bale JF Jr, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1575–81

Cytomegalovirus infection in women attending a sexually transmitted disease clinic. Collier AC, et al. **J Infect Dis** 1990 Jul;162(1):46–51

Cytomegalovirus associated oral ulcerations in HIV–infected patients. Langford A, et al. **J Oral Pathol Med** 1990 Feb; 19(2):71–6

Cytomegalovirus infection among employees of a children's hospital. No evidence for increased risk associated with patient care. Balcarek KB, et al. **JAMA** 1990 Feb 9; 263(6):840–4

Concurrent cytomegalovirus and pneumocystis pneumonia after fludarabine therapy for chronic lymphocytic leukemia [letter] Schilling PJ, et al. **N Engl J Med** 1990 Sep 20; 323(12):833–4

Central nervous system in AIDS—an update. Dambaka M, et al. **Neuropatol Pol** 1989;27(3):297–310

Cytomegalovirus interstitial pneumonitis in a bone marrow transplant recipient. Liu YC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Oct;88(10):1063–6

Cytomegalovirus infection and disease in renal transplant patients treated with cyclosporin. A prospective study. Bosch FH, et al. **Transpl Int** 1989 Aug;2(2):92–5

Cytomegalovirus infection after organ transplantation: an update with special emphasis on renal transplantation. van Son WJ, et al. **Transpl Int** 1989 Oct;2(3):147–64 (203 ref.)

Intrapancreatic abscess formation in pancreatic transplant recipients with positive cytomegalovirus serology: a rare cause of graft loss which may be prevented. Bäckman L, et al. **Transplant Proc** 1990 Apr;22(2):639–40

Cytomegalovirus infection in fifty-two renal transplant recipients. Godeaut E, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2131–2

The source of cytomegalovirus infection in seropositive renal allograft recipients is frequently the donor kidney. Grundy JE, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2126–8

A detailed study of cytomegalovirus infections in the first 160 heart and heart/lung transplant recipients at Papworth Hospital, Cambridge, England. Wreghitt TG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2495–6

Cytomegalovirus endometritis after liver transplantation. Sayage L, et al. **Transplantation** 1990 Apr;49(4):815–7

[Cytomegalovirus retinitis in acute leukemia] Pelosse B, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):209–10 (Eng. Abstr.) **(Fre)**

[Post-transfusion cytomegalovirus infection in premature infants weighing less than 1,500 g] Hubert C, et al. **Pediatrie** 1989;44(6):471–9 (29 ref.) (Eng. Abstr.) **(Fre)**

[Cytomegalovirus encephalo-myelo-radiculitis in acquired immunodeficiency syndrome] Chimelli L, et al. **Rev Neurol (Paris)** 1990;146(5):354–60 (35 ref.) (Eng. Abstr.) **(Fre)**

[HIV seropositivity: test the fundus of the eye!] Petzoldt D. **Fortschr Med** 1990 Mar 30;108(9):17 **(Ger)**

[Cytomegalovirus infection and pregnancy] Farber NA. **Akush Ginekol (Mosk)** 1989 Dec;(12):3–6 (48 ref.) **(Rus)**

[Clinico-morphological characteristics of the family of diseases: cytomegalic inclusion disease, iatrogenic thesaurimosis and septicemia] Samokhin PA, et al. **Pediatriia** 1990;(3):32–6 (Eng. Abstr.) **(Rus)**

GENETICS

Genetic control of mouse cytomegalovirus-induced myocarditis. Lawson CM, et al. **Immunology** 1990 Jan; 69(1):20–6

Cytomegalovirus infection stimulates expression of monocyte-associated mediator genes. Dudding L, et al. **J Immunol** 1989 Nov 15;143(10):3343–52

IMMUNOLOGY

Inflammatory and non-inflammatory inclusion body myositis. Characterization of the mononuclear cells and expression of the immunoreactive class I major histocompatibility complex product. Figarella-Branger D, et al. **Acta Neuropathol (Berl)** 1990;79(5):528–36

Possible factors contributing to persistence of cytomegalovirus infection. Blanden RV. **Adv Exp Med Biol** 1989;257:27–36 (38 ref.)

Cytomegalovirus-infected cells express Leu-M1 antigen. A potential source of diagnostic error. Rushin JM, et al. **Am J Pathol** 1990 May;136(5):989–95

Pattern of anti-cytomegalovirus IgM antibodies determined by immunoblotting. A study of kidney graft recipients developing a primary or recurrent CMV infection. Basson J, et al. **Arch Virol** 1989;108(3–4):259–70

Immunoblot analysis of the humoral immune response to cytomegalovirus in non-pregnant and pregnant guinea pigs. Bu FR, et al. **Arch Virol** 1990;110(3–4):247–54

Induction of resistance in mice against murine cytomegalovirus by cellular components of Lactobacillus casei. Ohashi T, et al. **Biotherapy** 1989;1(2):89–95

Quantitative measurement of cytomegalovirus-specific IgG and IgM antibodies in relation to cytomegalovirus antigenaemia and disease activity in kidney recipients with an active cytomegalovirus infection. Van der Giessen M, et al. **Clin Exp Immunol** 1990 Apr;80(1):56–61

Cellular and molecular basis of the protective immune response to cytomegalovirus infection. Koszinowski UH, et al. **Curr Top Microbiol Immunol** 1990;154:189–220 (134 ref.)

Immune response to human cytomegalovirus infection. Raamussen L. **Curr Top Microbiol Immunol** 1990; 154:221–54 (191 ref.)

T-lymphocyte subsets in gut and blood of liver transplant recipients with and without cytomegalovirus gastroenteritis. Van Thiel DH, et al. **Dig Dis Sci** 1989 Nov; 34(11):1751–7

Cytomegalovirus infections and diseases. Ho M. **Dis Mon** 1978 Sep;24(12):1–61 (135 ref.)

Latent cytomegalovirus (CMV) infections affect immunoglobulin levels of patients with thalassemia major. Germenis A, et al. **Haematologica** 1990 Jan–Feb;75(1):42–5

H-2 class I loci determine sensitivity to MCMV in macrophages and fibroblasts. Price P, et al. **Immunogenetics** 1990;32(1):20–6

Depression of humoral responses by murine cytomegalovirus infection. Price P. **Immunol Cell Biol** 1990 Feb;68 (Pt 1):33–43

Detection of cytomegalovirus-specific IGM in renal transplant recipients. McMahon CA, et al. **J Clin Lab Anal** 1989;3(6):350–4

Rises in antibody to human herpesvirus 6 detected by enzyme immunoassay in transplant recipients with primary cytomegalovirus infection. Chou SW, et al. **J Clin Microbiol** 1990 May;28(5):851–4

Antibody response to recombinant lambda gt11 fusion proteins in cytomegalovirus infection. Landini MP, et al. **J Clin Microbiol** 1989 Oct;27(10):2324–7

Immunoblot analysis of the antibody response to murine cytomegalovirus in genetically resistant and susceptible mice. Farrell HE, et al. **J Gen Virol** 1989 Oct;70 (Pt 10):2573–86

Murine cytomegalovirus infection can enhance hybrid resistance through modulation of host natural killer activity. Muluk SC, et al. **J Immunol** 1990 Aug 15; 145(4):1113–9

Antiviral antibody responses in mothers and their newborn infants with clinical and subclinical congenital cytomegalovirus infections. Britt WJ, et al. **J Infect Dis** 1990 Feb;161(2):214–9

Dual antibody rises to cytomegalovirus and human herpesvirus type 6: frequency of occurrence in CMV infections and evidence for genuine reactivity to both viruses. Irving WL, et al. **J Infect Dis** 1990 May; 161(5):910–6

Effects of infection by HIV-1, cytomegalovirus, and human measles virus on cultured human thymic epithelial cells. Numazaki K, et al. **Microbiol Immunol** 1989;33(9):733–45

Intraocular HIV-1-specific IgG synthesis in a patient with CMV retinitis. Dix RD, et al. **Reg Immunol** 1989 Jan–Feb; 2(1):1–6

Cytomegalovirus infections in seropositive patients after transfusion. The effect of red cell storage and volume. Adler SP, et al. **Transfusion** 1989 Oct;29(8):667–71

Analysis of cytomegalovirus reactivation after liver transplantation in cytomegalovirus immunoglobulin G antibody seropositive patients prior to transplantation. Cuervas-Mons V, et al. **Transplant Proc** 1990 Aug; 22(4):1798–9

Inability of cytomegalovirus infection of cultured endothelial cells to induce HLA class II antigen expression. Sedmak DD, et al. **Transplantation** 1990 Feb;49(2):458–62

Isolated gA/gB glycoprotein complex of human cytomegalovirus envelope induces humoral and cellular immune-responses in human volunteers. Gonczol E, et al. **Vaccine** 1990 Apr;8(2):130–6

Murine cytomegalovirus-induced suppression of antigen-specific cytotoxic T lymphocyte maturation. Campbell AE, et al. **Virology** 1989 Nov;173(1):268–75

[The effect of cytomegalovirus and Epstein-Barr virus infection on immunologic signs] Korčáková L, et al. **Vnitr Lek** 1989 Oct;35(10):987–91 (Eng. Abstr.) **(Cze)**

[Cytomegalovirus encephalitis in immunologically normal adults] Suzuki Y, et al. **Rinsho Shinkeigaku** 1990 Feb; 30(2):168–73 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Cellular and humoral immunity in children in cytomegalovirus infections] Morgunov KV, et al. **Vopr Virusol** 1989 Sep–Oct;34(5):612–3 **(Rus)**

METABOLISM

Human cytomegalovirus stimulates arachidonic acid metabolism through pathways that are affected by inhibitors of phospholipase A2 and protein kinase C. AbuBakar S, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):953–9

Increased susceptibility to pentobarbital following mouse cytomegalovirus infection: relative roles of viral-induced interferon and viral infection of the liver. Catignani JC, et al. **J Biochem Toxicol** 1989 Winter;4(4):221–9

Increased uric acid in the developing brain and spinal cord following cytomegalovirus infection. Boyes BE, et al. **J Neurochem** 1989 Dec;53(6):1719–23

Comparison of interleukin 2 and gamma-interferon production by peripheral blood mononuclear cells in response to cytomegalovirus after marrow transplantation. Bowden RA, et al. **Transplantation** 1990 Jul;50(1):38–42

MICROBIOLOGY

Localization of human cytomegalovirus in peripheral blood leukocytes by in situ hybridization. Dankner WM, et al. **J Infect Dis** 1990 Jan;161(1):31–6

Survival of cytomegalovirus in viremic blood under blood bank storage conditions [letter] Dworkin RJ, et al. **J Infect Dis** 1990 Jun;161(6):1310–1

Detection of mouse cytomegalovirus nucleic acid in latently infected mice by in vitro enzymatic amplification. Klotman ME, et al. **J Infect Dis** 1990 Feb;161(2):220–5

Cellular localization of cytomegalovirus nucleic acids in guinea pig salivary glands by in situ hybridization. Griffith BP, et al. **J Virol Methods** 1990 Feb;27(2):145–57

Human cytomegalovirus nucleic acids in tissues from congenitally infected infants. Bale JF Jr, et al. **Pediatr Neurol** 1989 Jul–Aug;5(4):216–20

Cell-activation responses to cytomegalovirus infection relationship to the phasing of CMV replication and to the induction of cellular damage. Albrecht T, et al. **Subcell Biochem** 1989;15:157–202 (130 ref.)

Independent existence of mutations responsible for temperature sensitivity and attenuation in a mutant of murine cytomegalovirus. Kumura K, et al. **Virology** 1990 Apr;175(2):572–4

[Carrier status of herpes viridae in pregnant women] Qi YH. **Chung Hua Fu Chan Ko Tsa Chih** 1989 May;24(3):133–5, 188 (Eng. Abstr.) **(Chi)**

[Cytomegalovirus infection and inner ear deafness] Morgenstern C, et al. **Laryngorhinootologie** 1989 Sep; 68(9):503–5 (Eng. Abstr.) **(Ger)**

[A study of the effect of thymotropin on immunologic indicators and excretion of virus in women with chronic cytomegalovirus infection] Savitskiĭ GI, et al. **Vopr Virusol** 1989 Jul–Aug;34(4):434–6 (Eng. Abstr.) **(Rus)**

MORTALITY

Infant mortality, microglial nodules and parotid CMV-type inclusions. Variend S. **Early Hum Dev** 1990 Jan;21(1):31–40

PATHOLOGY

Severe neuropathy in a patient with acquired immune deficiency syndrome (AIDS). Evidence for widespread cytomegalovirus infection of peripheral nerve and human immunodeficiency virus-like immunoreactivity of anterior horn cells. Robert ME, et al. **Acta Neuropathol (Berl)** 1989; 79(3):255–61

Cytomegalovirus (CMV) disease of the brain in AIDS and connatal infection: a comparative study by histology, immunocytochemistry and in situ DNA hybridization [published erratum appears in Acta Neuropathol (Berl) 1990;79(5):579] Schmidbauer M, et al. **Acta Neuropathol (Berl)** 1989;79(3):286–93

Susceptibility of brain cells to murine cytomegalovirus infection in the developing mouse brain. Tsutsui Y, et al. **Acta Neuropathol (Berl)** 1989;79(3):262–70

Adrenal findings with CMV infection in AIDS [letter] Klatt EC. **Am J Clin Pathol** 1990 Sep;94(3):368

Cytomegaloviral adrenalitis and adrenal insufficiency in AIDS. Pulakhandam U, et al. **Am J Clin Pathol** 1990 May; 93(5):651–6

Disseminated cytomegalovirus infection presenting with acalculous cholecystitis and acute pancreatitis. Bigio EH, et al. **Arch Pathol Lab Med** 1989 Nov;113(11):1287–9

Correlation of in situ hybridization with histology and viral culture in patients with acquired immunodeficiency syndrome with cytomegalovirus colitis [see comments] Clayton F, et al. **Arch Pathol Lab Med** 1989 Oct; 113(10):1124–6 Comment in: Arch Pathol Lab Med 1990 Jul;114(7):639.

Clinical patterns of cytomegalovirus disease after liver transplantation. Stratta RJ, et al. **Arch Surg** 1989 Dec; 124(12):1443–9; discussion 1449–50

The effect of cytomegalovirus infection on the adherence of polymorphonuclear leucocytes to endothelial cells. Span AH, et al. **Eur J Clin Invest** 1989 Dec;19(6):542–8

Pre-menopausal cytomegalovirus oophoritis. Williams DJ, et al. **Histopathology** 1990 Apr;16(4):405–7

Cytomegalovirus pneumonitis in heart-lung transplant recipients: histopathology and clinicopathologic considerations. Fend F, et al. **Hum Pathol** 1990 Sep; 21(9):918–26

Clinically occult cytomegalovirus present in skin biopsy specimens in immunosuppressed hosts. Horn TD, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):781–4

Cytomegalovirus infection in gastrointestinal tracts of patients infected with HIV-1 or AIDS. Francis ND, et al. **J Clin Pathol** 1989 Oct;42(10):1055–64

Morphological and functional changes during cytomegalovirus replication in murine macrophages. van Bruggen I, et al. **J Leukoc Biol** 1989 Dec;46(6):508–20

Combined HIV-CMV encephalitis presenting with brainstem signs. Fuller GN, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):975–9 (31 ref.)

Cytomegalovirus retinitis. To K, et al. **JAMA** 1989 Dec 15; 262(23):3337

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 5-1990. Fever three weeks after an operation for pancreatic cancer. **N Engl J Med** 1990 Feb 1;322(5):318–25

Nuclear bodies (sphaeridia) in Sertoli cells of a man with acquired immunodeficiency syndrome (AIDS) and testicular infection by cytomegalovirus. Nistal M, et al. **Ultrastruct Pathol** 1990 Jan–Feb;14(1):21–6

Cultured human brain capillary endothelial cells are permissive for infection by human cytomegalovirus. Lathey JL, et al. **Virology** 1990 May;176(1):266–73

[HIV-positive newborns via maternal-fetal transmission. Early ophthalmic lesions] Costet C, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):77–8 (Eng. Abstr.) **(Fre)**

[A clinicopathological study on cytomegalovirus infection] Tashiro T, et al. **Kansenshogaku Zasshi** 1989 Oct; 63(10):1171–7 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Effects of murine cytomegalovirus on development: lack of interactions of virus and sodium salicylate. Francis BM, et al. **J Appl Toxicol** 1990 Feb;10(1):43–6

PREVENTION & CONTROL

The prevention of cytomegalovirus disease in renal transplantation. Davis CL. **Am J Kidney Dis** 1990 Sep; 16(3):175–88 (194 ref.)

Hospital hazards. Part 2. How to protect yourself. Jacobson E. **Am J Nurs** 1990 Apr;90(4):48–53

Polyvalent immune globulin and cytomegalovirus infection after renal transplantation. Kasiske BL, et al. **Arch Intern Med** 1989 Dec;149(12):2733–6

Statistical power and polyvalent immunoglobulin [letter] Whittle J. **Arch Intern Med** 1990 Aug;150(8):1760

Host-mediated antiviral activity of Lactobacillus casei

against cytomegalovirus infection in mice. Ohashi T, et al. **Biotherapy** 1988;1(1):27–39

Cytomegalovirus seronegative heart transplant recipients. Prophylactic use of anti–CMV immunoglobulin. Metselaar HJ, et al. **Chest** 1990 Feb;97(2):396–9

Progress in vaccine development for prevention of human cytomegalovirus infection. Gönczöl E, et al. **Curr Top Microbiol Immunol** 1990;154:255–74 (55 ref.)

Immunoprophylaxis of cytomegalovirus infections in transplanted patients. Bron D, et al. **Eur J Cancer Clin Oncol** 1989 Sep;25(9):1365–8 (16 ref.)

CMV infections in bone marrow transplanted patients—evaluation of prophylaxis with Cytotect (CMV hyperimmuneglobulin). Zintl F, et al. **Folia Haematol (Leipz)** 1989;116(3–4):557–64

Management of cytomegalovirus antibody negative patients undergoing heart transplantation. Freeman R, et al. **J Clin Pathol** 1990 May;43(5):373–6

Cytomegalovirus screening in pregnancy [letter] Preece PM. **Lancet** 1989 Nov 4;2(8671):1101

Acyclovir to prevent cytomegalovirus infection in renal–graft recipients [letter; comment] Grundy JE, et al. **N Engl J Med** 1989 Nov 2;321(18):1268–9 Comment on: N Engl J Med 1989 May 25;320(21):1381–7.

Effect of Chlorella vulgaris extracts on murine cytomegalovirus infections. Ibusuki K, et al. **Nat Immun Cell Growth Regul** 1990;9(2):121–8

Prevention of cytomegalovirus infection after marrow transplantation. Meyers JD. **Rev Infect Dis** 1989 Nov–Dec; 11 Suppl 7:S1691–705 (75 ref.)

Prophylaxis of cytomegalovirus infection. Bowden RA, et al. **Semin Hematol** 1990 Apr;27(2 Suppl 1):17–21; discussion 28–9 (30 ref.)

Current approaches to the prevention and treatment of cytomegalovirus disease after bone marrow transplantation: an overview. Levin MJ. **Semin Hematol** 1990 Apr;27(2 Suppl 1):1–4; discussion 28–9 (7 ref.)

Prevention of primary cytomegalovirus infection in patients with hematologic malignancies by intensive white cell depletion of blood products. de Graan–Hentzen YC, et al. **Transfusion** 1989 Nov–Dec;29(9):757–60

The role of CMV immune prophylaxis in patients at risk of primary CMV infection following orthotopic liver transplantation. Bell R, et al. **Transplant Proc** 1989 Oct; 21(5):3781–2

Cytomegalovirus hyperimmunoglobulin prophylaxis in the prevention of cytomegalovirus infection in immunosuppressed heart transplant patients. Havel M, et al. **Transplant Proc** 1990 Aug;22(4):1805–6

Passive immunization to prevent cytomegalovirus disease after kidney and heart transplantation. Weimar W, et al. **Transplant Proc** 1990 Feb;22(1):229–32

Intravenous immunoglobulin infusions for the prophylaxis of secondary cytomegalovirus infection. Steinmuller DR, et al. **Transplantation** 1990 Jan;49(1):68–70

[Serum immunoglobulin concentrations in patients following bone marrow transplantation and preventive administration of high–dose nonspecific or normal–dose CMV–specific immunoglobulin] Berger C, et al. **Beitr Infusionther** 1989; 24:112–21 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Cytomegalovirus infection masquerading as colonic neoplasia. Lewis–Jones HG, et al. **Br J Radiol** 1990 Jul; 63(751):573–4

Radiological appearances of cytomegalovirus infections. Olliff JF, et al. **Clin Radiol** 1989 Sep;40(5):463–7

THERAPY

Failure of adjunctive cytomegalovirus intravenous immune globulin to improve efficacy of ganciclovir in patients with acquired immunodeficiency syndrome and cytomegalovirus retinitis: a phase 1 study. Jacobson MA, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):176–8

Combined antibody and ganciclovir treatment of murine cytomegalovirus–infected normal and immunosuppressed BALB/c mice. Rubin RH, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1975–9

The in vivo and in vitro effects of interleukin–1 and tumor necrosis factor on murine cytomegalovirus infection. van der Meer JW, et al. **Biotherapy** 1989;1(3):227–31

Foscarnet prophylaxis in marrow transplant recipients [letter] Ringden O, et al. **Bone Marrow Transplant** 1989 Nov; 4(6):713

Therapy of a fatal murine cytomegalovirus infection with thymic humoral factor (THF–gamma 2) treated immune spleen cells. Rager–Zisman B, et al. **Clin Exp Immunol** 1990 Feb;79(2):246–52

Treatment of severe cytomegalovirus infection with ganciclovir and high–dose intravenous immunoglobulin in patients with allogeneic bone marrow transplants. A pilot study. Lehn P, et al. **Nouv Rev Fr Hematol** 1990;32(1):17–20

Treatment of cytomegalovirus disease. Emanuel D. **Semin Hematol** 1990 Apr;27(2 Suppl 1):22–7; discussion 28–9 (23 ref.)

Reactivation of CMV in human lung transplants. Behrend M, et al. **Transplant Proc** 1990 Aug;22(4):1822–3

The usefulness of hyperimmune globulin for treatment of overt cytomegalovirus infection in allograft recipients. Rancewicz Z, et al. **Transplant Proc** 1990 Aug;22(4):1818–9

Use of a human monoclonal anti–cytomegalovirus antibody for the treatment of severe cytomegalovirus after renal transplantation. Skarp–Orberg I, et al. **Transplant Proc** 1990 Feb;22(1):234

TRANSMISSION

Thalassemic patients are at high risk for transfusion–transmitted cytomegalovirus infections. Germenis A, et al. **Acta Haematol (Basel)** 1989;82(2):57–60

Acute co–infection with human immunodeficiency virus (HIV) and cytomegalovirus [letter; comment] Raffi F, et al. **Ann Intern Med** 1990 Feb 1;112(3):234–5 Comment on: Ann Intern Med 1989 Aug 15;111(4):293–6.

Cytomegalovirus infection in day–care centres: risks to pregnant women. Infectious Diseases and Immunization Committee, Canadian Paediatric Society. **Can Med Assoc J** 1990 Mar 15;142(6):547–9 (25 ref.)

Risks to health care workers from occupational exposure to hepatitis B virus, human immunodeficiency virus, and cytomegalovirus. Gerberding JL. **Infect Dis Clin North Am** 1989 Dec;3(4):735–45 (33 ref.)

Relation of maternal CMV viremia and antibody response to the rate of congenital infection and intrauterine growth retardation. Harrison CJ, et al. **J Med Virol** 1990 Jul; 31(3):222–8

Cytomegalovirus infection in a neonatal intensive care unit. Subsequent morbidity and mortality of seropositive infants. Griffin MP, et al. **J Perinatol** 1990 Mar;10(1):43–5

Role of primary and secondary maternal viremia in transplacental guinea pig cytomegalovirus transfer. Griffith BP, et al. **J Virol** 1990 May;64(5):1991–7

Cytomegalovirus and child day care. Evidence for an increased infection rate among day–care workers. Adler SP. **N Engl J Med** 1989 Nov 9;321(19):1290–6

Current issues in blood component therapy: transmission of infectious diseases. Menitove JE. **Oncology (Williston Park)** 1987 Jun;1(4):21–30 (46 ref.)

How safe is our blood? [editorial] Gunson H. **Practitioner** 1989 Oct 8;233(1476):1265

[Significance of cytomegalovirus in blood donation] Albert S, et al. **Infusionstherapie** 1990 Feb;17(1):48–56 (Eng. Abstr.) **(Ger)**

[Cytomegalovirus transmission following a blood transfusion] Micali C, et al. **Minerva Med** 1989 Dec;80(12):1305–8 (Eng. Abstr.) **(Ita)**

URINE

Effect of treatment of shell vial cell cultures with dimethyl sulfoxide and dexamethasone and age of MRC–5 monolayers for detection of cytomegalovirus. Fedorko DP, et al. **Diagn Microbiol Infect Dis** 1990 Jan–Feb;13(1):41–4

Correlation of urine pH with the detection of cytomegalovirus by the shell vial technique. Gray LD, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3):275–7

VETERINARY

A viral infection causing cytomegalic inclusion disease in the renal epithelium of the platypus (Ornithorhynchus anatinus). Whittington RJ, et al. **J Wildl Dis** 1990 Jan; 26(1):55–61

CYTOMEGALOVIRUSES

Cytomegaloviruses. **Curr Top Microbiol Immunol** 1990; 154:1–274

Evaluation of the virus permeability of a new condom for women. Drew WL, et al. **Sex Transm Dis** 1990 Apr–Jun; 17(2):110–2

[Preservation of cytomegalovirus by lyophilization] Zhao SL, et al. **Wei Sheng Wu Hsueh Pao** 1989 Dec;29(6):467–9 (Eng. Abstr.) **(Chi)**

ANALYSIS

In situ detection of cytomegalovirus DNA in biopsies of AIDS patients using a hybrido–immunocytochemical assay. Musiani M, et al. **Histochemistry** 1990;94(1):21–5

Structural and immunological characterization of human cytomegalovirus gp55–116 (gB) expressed in insect cells. Wells DE, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):873–80

A hybrido–immunocytochemical assay for the in situ detection of cytomegalovirus DNA using digoxigenin–labeled probes. Gentilomi G, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):177–83

Nested polymerase chain reaction assay for the detection of cytomegalovirus overcomes false positives caused by contamination with fragmented DNA. Porter–Jordan K, et al. **J Med Virol** 1990 Feb;30(2):85–91

Structural analysis of a 64–kDa major structural protein of human cytomegalovirus (Towne): identification of a phosphorylation site and comparison to pp65 of HCMV (AD169). Pande H, et al. **Virology** 1990 Sep;178(1):6–14

DRUG EFFECTS

Synergistic effect of ganciclovir and foscarnet on cytomegalovirus replication in vitro. Manischewitz JF, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):373–5

Increased efficacy of ganciclovir in combination with foscarnet against cytomegalovirus and herpes simplex virus type 2 in vitro and in vivo. Freitas VR, et al. **Antiviral Res** 1989 Nov;12(4):205–12

Activity of (S)–1–(3–hydroxy–2–phosphonylmethoxypropyl)cytosine (HPMPC) against guinea pig cytomegalovirus infection in cultured cells and in guinea pigs. Li SB, et al. **Antiviral Res** 1990 May;13(5):237–52

4,6–dibenzamidopyrazolo[3,4–d]pyrimidine is a highly selective inhibitor of cytomegalovirus adsorption to cells. Smee DF, et al. **Antiviral Res** 1990 Jan;13(1):1–10

Globular changes in cytomegaloviral inclusions after Ganciclovir treatment. Hruban Z, et al. **Arch Virol** 1989; 108(3–4):287–93

Induction by sodium butyrate of cytomegalovirus replication in human endothelial cells. Radsak K, et al. **Arch Virol** 1989;107(1–2):151–8

Anti–herpesvirus activity of carbocyclic oxetanocin G in vitro. Nishiyama Y, et al. **J Antibiot (Tokyo)** 1989 Dec; 42(12):1854–9

Synthesis, antiproliferative, and antiviral activity of certain 4–substituted and 4,5–disubstituted 7–[(1,3–dihydroxy–2–propoxy)methyl]pyrrolo[2,3–d]pyrimidines. Pudlo JS, et al. **J Med Chem** 1990 Jul; 33(7):1984–92

Synthesis and antiviral activity of some 7–[(2–hydroxyethoxy)methyl]pyrazolo[3,4–d]pyrimidine analogues of sangivamycin and toyocamycin. Saxena NK, et al. **J Med Chem** 1990 Jul;33(7):1980–3

Antiviral effect of antileukemic drugs N4–behenoyl–1–beta–D–arabinofuranosylcytosine (BH–AC) and 2,2'–anhydro–1–beta–D–arabinofuranosylcytosine (cyclo–C) against human cytomegalovirus. Nakamura K, et al. **J Med Virol** 1990 Jun;31(2):141–7

A microtiter virus yield reduction assay for the evaluation of antiviral compounds against human cytomegalovirus and herpes simplex virus. Prichard MN, et al. **J Virol Methods** 1990 Apr;28(1):101–6

[Cytomegaloviruses and synthetic acyclic nucleosides: specificity of ganciclovir] Beleslin DB. **Srp Arh Celok Lek** 1989 May–Jun;117(5–6):379–88 **(Sec)**

GENETICS

Characteristics of MNNG induced repair synthesis and DNA synthesis induced by human cytomegalovirus. Anuszewska E, et al. **Acta Biochim Pol** 1989;36(2):105–14

Three sensitive methods for the detection of cytomegalovirus in lung tissue of patients with interstitial pneumonitis. Jiwa M, et al. **Am J Clin Pathol** 1990 Apr;93(4):491–4

Murine retroviral vectors: T–cell line specific expression of a cytomegalovirus immediate early promoter. Kownin P, et al. **Biotechniques** 1990 May;8(5):501–2

Gamma–interferon and tumor necrosis factor production after bone marrow transplantation is augmented by exposure to marrow fibroblasts infected with cytomegalovirus. Duncombe AS, et al. **Blood** 1990 Sep 1; 76(5):1046–53

Analysis of the protein–coding content of the sequence of human cytomegalovirus strain AD169. Chee MS, et al. **Curr Top Microbiol Immunol** 1990;154:125–69 (173 ref.)

Guinea pig cytomegalovirus gene expression. Isom HC, et al. **Curr Top Microbiol Immunol** 1990;154:101–21 (65 ref.)

Human cytomegalovirus phosphoproteins and glycoproteins and their coding regions. Jahn G, et al. **Curr Top Microbiol Immunol** 1990;154:171–85 (64 ref.)

Molecular genetic analysis of cytomegalovirus gene regulation in growth, persistence and latency. Mocarski ES Jr, et al. **Curr Top Microbiol Immunol** 1990;154:47–74 (169 ref.)

Regulation and tissue–specific expression of human cytomegalovirus. Nelson JA, et al. **Curr Top Microbiol Immunol** 1990;154:75–100 (97 ref.)

Human cytomegalovirus early gene expression. Spector DH, et al. **Curr Top Microbiol Immunol** 1990;154:21–45 (135 ref.)

Immediate–early transcription regulation of human cytomegalovirus. Stamminger T, et al. **Curr Top Microbiol Immunol** 1990;154:3–19 (84 ref.)

NF–kappa B activation of the cytomegalovirus enhancer is mediated by a viral transactivator and by T cell stimulation. Sambucetti LC, et al. **EMBO J** 1989 Dec 20;8(13):4251–8

Human chorionic gonadotropin alpha and human cytomegalovirus promoters are extremely active in the fission yeast Schizosaccharomyces pombe. Toyama R, et al. **FEBS Lett** 1990 Jul 30;268(1):217–21

Physical mapping of a temperature–sensitive mutation of human cytomegalovirus by marker rescue. Dion M, et al. **Genet Anal Tech Appl** 1990 Apr;7(2):32–4

Cytomegalovirus nucleic acids in allografted hearts [letter] Hruban RH, et al. **Hum Pathol** 1990 Sep;21(9):981–2

Persistence of human cytomegalovirus DNA sequences without cell–virus homology in human placental explants in culture. Amirhessami–Aghili N, et al. **Int J Fertil** 1989 Nov–Dec;34(6):411–9

RNA analysis and isolation of cDNAs derived from the human cytomegalovirus immediate–early region at 0.24 map units. Tenney DJ, et al. **Intervirology** 1990; 31(2–4):203–14

Modulation of interleukin 1 beta gene expression by the immediate early genes of human cytomegalovirus. Iwamoto GK, et al. **J Clin Invest** 1990 Jun;85(6):1853–7

Procaryotic expression of phosphorylated tegument protein pp65 of human cytomegalovirus and application of recombinant peptides for immunoblot analyses. Plachter B, et al. **J Clin Microbiol** 1990 Jun;28(6):1229–35

Reciprocal enhancement of gene expression and viral

replication between human cytomegalovirus and human immunodeficiency virus type 1. Ho WZ, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):97–103

Human cytomegalovirus: recent aspects from molecular biology. Mach M, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3117–46 (241 ref.)

Cell type–specific induction of the major immediate early enhancer of human cytomegalovirus by cyclic AMP [published erratum appears in J Gen Virol 1990 Jul;71(Pt 7):1627] Stamminger T, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):105–13

Differential expression of the major immediate early gene of human cytomegalovirus. Tsutsui Y, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):115–24

Differentiation of cytomegalovirus strains by restriction analysis of DNA sequences amplified from clinical specimens. Chou SW. **J Infect Dis** 1990 Sep;162(3):738–42

Cytomegalovirus activates transcription directed by the long terminal repeat of human immunodeficiency virus type 1. Barry PA, et al. **J Virol** 1990 Jun;64(6):2932–40

Human cytomegalovirus induces expression of cellular topoisomerase II. Benson JD, et al. **J Virol** 1990 Jan; 64(1):9–15

Cell surface expression of human cytomegalovirus (HCMV) gp55–116 (gB): use of HCMV–recombinant vaccinia virus–infected cells in analysis of the human neutralizing antibody response. Britt WJ, et al. **J Virol** 1990 Mar; 64(3):1079–85

Characterization of the murine cytomegalovirus early transcription unit e1 that is induced by immediate–early proteins. Bühler B, et al. **J Virol** 1990 May;64(5):1907–19

The palindromic series I repeats in the simian cytomegalovirus major immediate–early promoter behave as both strong basal enhancers and cyclic AMP response elements. Chang YN, et al. **J Virol** 1990 Jan;64(1):264–77

Identification of precursor to cytomegalovirus capsid assembly protein and evidence that processing results in loss of its carboxy–terminal end. Gibson W, et al. **J Virol** 1990 Mar;64(3):1241–9

Human cytomegalovirus immediate–early two protein region involved in negative regulation of the major immediate–early promoter. Hermiston TW, et al. **J Virol** 1990 Jul;64(7):3532–6

A host cell protein binds to a highly conserved sequence element (pac–2) within the cytomegalovirus a sequence. Kemble GW, et al. **J Virol** 1989 Nov;63(11):4715–28

The human cytomegalovirus 2.7–kilobase RNA promoter contains a functional binding site for the adenovirus major late transcription factor. Klucher KM, et al. **J Virol** 1990 Sep;64(9):4189–98

Sequences in the human cytomegalovirus 2.7–kilobase RNA promoter which mediate its regulation as an early gene. Klucher KM, et al. **J Virol** 1989 Dec;63(12):5334–43

Human herpesvirus 6 is closely related to human cytomegalovirus. Lawrence GL, et al. **J Virol** 1990 Jan; 64(1):287–99

Transactivation of a human cytomegalovirus early promoter by gene products from the immediate–early gene IE2 and augmentation by IE1: mutational analysis of the viral proteins. Malone CL, et al. **J Virol** 1990 Apr;64(4):1498–506

Phytohemagglutinin–induced activity of cyclic AMP (cAMP) response elements from cytomegalovirus is reduced by cyclosporine and synergistically enhanced by cAMP. Niller HH, et al. **J Virol** 1990 May;64(5):2388–91

Altered expression of fibronectin gene in cells infected with human cytomegalovirus. Pande H, et al. **J Virol** 1990 Mar; 64(3):1366–9

Transcriptional analysis of the eight–kilobase mRNA encoding the major capsid protein of human cytomegalovirus. Rudolph SA, et al. **J Virol** 1990 Oct; 64(10):5167–72

Induction of cellular hsp70 expression by human cytomegalovirus. Santomenna LD, et al. **J Virol** 1990 May; 64(5):2033–40

Sequence requirements for proteolytic processing of glycoprotein B of human cytomegalovirus strain Towne. Spaete RR, et al. **J Virol** 1990 Jun;64(6):2922–31

Promoter–specific trans activation and repression by human cytomegalovirus immediate–early proteins involves common and unique protein domains. Stenberg RM, et al. **J Virol** 1990 Apr;64(4):1556–65

Guinea pig cytomegalovirus immediate–early transcription. Yin CY, et al. **J Virol** 1990 Apr;64(4):1537–48

Rapid antiviral DNA–DNA hybridization assay for human cytomegalovirus. Dunkner WM, et al. **J Virol Methods** 1990 Jun;28(3):293–8

Differential detection of viral DNA and RNA in situ in cells infected with human cytomegalovirus. McCarrey JR, et al. **J Virol Methods** 1989 Sep;25(3):301–14

Absence of cytomegalovirus DNA in kidneys in IgA nephropathy [letter] Béné MC, et al. **Lancet** 1990 Apr 7; 335(8693):868

Detection of cytomegalovirus nucleic acid sequences in pancreas in type 2 diabetes. Löhr JM, et al. **Lancet** 1990 Sep 15;336(8716):644–8

Source of contamination in polymerase chain reaction assay [letter; comment] [see comments] Porter–Jordan K, et al. **Lancet** 1990 May 19;335(8699):1220 Comment on: Lancet 1989 Dec 9;2(8676):1363–5. Comment in: Lancet 1990 Jun 23;335(8704):1540.

The cytomegalovirus enhancer: a pan–active control element in transgenic mice. Schmidt EV, et al. **Mol Cell Biol** 1990 Aug;10(8):4406–11

Expression of a cytomegalovirus–human growth hormone–releasing hormone precursor fusion gene in transfected GH3 cells. Brar AK, et al. **Mol Cell Endocrinol** 1990 Jun 18;71(2):105–15

Detection of mRNA from the immediate early gene of human cytomegalovirus in infected cells by in vitro amplification. Buffone GJ, et al. **Mol Cell Probes** 1990 Apr;4(2):143–51

Human cytomegalovirus encodes three G protein–coupled receptor homologues [see comments] Chee MS, et al. **Nature** 1990 Apr 19;344(6268):774–7 Comment in: Nature 1990 Apr 19;344(6268):707–8.

HIV susceptibility conferred to human fibroblasts by cytomegalovirus–induced Fc receptor. McKeating JA, et al. **Nature** 1990 Feb 15;343(6259):659–61

Cellular signalling. Viral hijack of receptors [news; comment] Ross EM. **Nature** 1990 Apr 19;344(6268):707–8 Comment on: Nature 1990 Apr 19;344(6268):774–7.

Repression of human cytomegalovirus gene expression associated with a novel immediate early regulatory region binding factor. Shelbourn SL, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9165–71

Human cytomegalovirus nucleic acids in tissues from congenitally infected infants. Bale JF Jr, et al. **Pediatr Neurol** 1989 Jul–Aug;5(4):216–20

Activation of proto–oncogenes: an immediate early event in human cytomegalovirus infection. Boldogh I, et al. **Science** 1990 Feb 2;247(4942):561–4

Translational inhibition by cytomegalovirus transcript leaders. Biegalke BJ, et al. **Virology** 1990 Aug;177(2):657–67

Physical structure and molecular cloning of equine cytomegalovirus DNA. Colacino JM, et al. **Virology** 1989 Dec;173(2):566–80

Interactions between cellular regulatory proteins and a unique sequence region in the human cytomegalovirus major immediate–early promoter. Ghazal P, et al. **Virology** 1990 Jan;174(1):18–25

Transcription of the human cytomegalovirus glycoprotein gene family in the short unique component of the viral genome. Gretch DR, et al. **Virology** 1990 Feb;174(2):522–32

Independent existence of mutations responsible for temperature sensitivity and attenuation in a mutant of murine cytomegalovirus. Kumura K, et al. **Virology** 1990 Apr;175(2):572–4

Expression of the acidic nuclear immediate–early protein (IE1) of human cytomegalovirus in stable cell lines and its preferential association with metaphase chromosomes. Lafemina RL, et al. **Virology** 1989 Oct;172(2):584–600

Disparate effects of two herpesvirus [corrected] immediate–early gene trans–activators on the HIV–1 LTR [published erratum appears in Virology 1990 Mar;175(1):343] Markovitz DM, et al. **Virology** 1989 Dec; 173(2):750–4

Effect of human cytomegalovirus on replication of SV40 origin and the expression of T antigen. Pari GS, et al. **Virology** 1990 Aug;177(2):824–8

Characterization of multiple molecular interactions between human cytomegalovirus (HCMV) and human immunodeficiency virus type 1 (HIV–1). Rando RF, et al. **Virology** 1990 May;176(1):87–97

Detection of an IE responsive element(s) in the BamHI J fragment of human cytomegalovirus AD169. Reifel–Miller AE, et al. **Virology** 1990 Aug;177(2):496–504

Genomic location of a human cytomegalovirus protein with protein kinase activity (PK68). Somogyi T, et al. **Virology** 1990 Jan;174(1):276–85

Recent progress in cytomegalovirus research. Benson JD, et al. **Virus Genes** 1990 Feb;3(3):263–76 (57 ref.)

Molecular cloning of DNA sequences from cervical intraepithelial neoplasia that hybridize to human cytomegalovirus DNA. Fletcher K, et al. **Virus Genes** 1989 Aug;2(4):323–33

[Transformation and identification of recombinant plasmid pAT153 containing HCMV gene Hind III F fragment and its clinical application] Wu J, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):117–20 (Eng. Abstr.) **(Chi)**

[Physical mapping of strain AD169 human cytomegalovirus DNA] Dion M, et al. **Can J Microbiol** 1990 May; 36(5):341–7 (Eng. Abstr.) **(Fre)**

GROWTH & DEVELOPMENT

Evaluation of continuous cell lines in antiviral studies with murine cytomegalovirus. Smee DF, et al. **Arch Virol** 1989; 107(3–4):253–60

Cytomegalovirus replication in cultured human retinal pigment epithelial cells. Miceli MV, et al. **Curr Eye Res** 1989 Aug;8(8):835–9

Role of intranuclear sacs, intrasaccate tubes, and cytoplasmic dense bodies in the structural completion of cytomegalovirus. Tumilowicz JJ, et al. **Intervirology** 1990; 31(1):14–22

In vivo reactivation of latent murine cytomegalovirus in the eye by immunosuppressive treatment. Rabinovitch T, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):657–63

Survival of cytomegalovirus in viremic blood under blood bank storage conditions [letter] Dworkin RJ, et al. **J Infect Dis** 1990 Jun;161(6):1310–1

Morphological and functional changes during cytomegalovirus replication in murine macrophages. van Bruggen I, et al. **J Leukoc Biol** 1989 Dec;46(6):508–20

IMMUNOLOGY

Prevalence of cytomegalovirus antibodies in Brazilian women of childbearing age and newborns. Linhares MI, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Oct;31(5):620–2

The significance of the detection of cytomegalovirus in the bronchoalveolar lavage fluid in AIDS patients with pneumonia. Bower M, et al. **AIDS** 1990 Apr;4(4):317–20

Failure of adjunctive cytomegalovirus intravenous immune globulin to improve efficacy of ganciclovir in patients with acquired immunodeficiency syndrome and cytomegalovirus retinitis: a phase 1 study. Jacobson MA, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):176–8

A soluble immunosuppressive activity induced by murine cytomegalovirus infection of mouse embryo fibroblasts. Hatfield P, et al. **Arch Virol** 1989;108(1–2):39–47

Characterization of cytomegalovirus glycoproteins in a family of complexes designated gC–II with murine monoclonal antibodies. Kari B, et al. **Arch Virol** 1990; 112(1–2):55–65

Cloning and characterization of major antigenic determinants of human cytomegalovirus Ad169 seen by the human immune system. Lindenmaier W, et al. **Arch Virol** 1990; 113(1–2):1–16

Seroepidemiology of cytomegalovirus infection in the Northwest Territories of Canada. Preiksaitis JK, et al. **Arctic Med Res** 1988;47 Suppl 1:701–4

Antibodies to Epstein–Barr virus and cytomegalovirus in primary Sjogren's syndrome. Origgi L, et al. **Boll Ist Sieroter Milan** 1988;67(4):265–74

Cytomegalovirus seroconversion in patients receiving intensive induction therapy prior to allogeneic bone marrow transplantation. Kelsey SM, et al. **Bone Marrow Transplant** 1989 Sep;4(5):543–6

Detection of cytomegalovirus in bronchoalveolar lavage specimens. Spin amplification and staining with a monoclonal antibody to the early nuclear antigen for diagnosis of cytomegalovirus pneumonia. Woods GL, et al. **Chest** 1990 Sep;98(3):568–75

Quantitative measurement of cytomegalovirus–specific IgG and IgM antibodies in relation to cytomegalovirus antigenaemia and disease activity in kidney recipients with an active cytomegalovirus infection. Van der Giessen M, et al. **Clin Exp Immunol** 1990 Apr;80(1):56–61

Correlation between islet cell antibodies and anti–cytomegalovirus IgM and IgG antibodies in healthy first–degree relatives of type 1 (insulin–dependent) diabetic patients. Nicoletti F, et al. **Clin Immunol Immunopathol** 1990 Apr;55(1):139–47

FDA approves marketing of cytomegalovirus immune globulin [news] **Clin Pharm** 1990 Jul;9(7):493

Detection of antibodies to cytomegalovirus by immunofluorescence and enzyme immunoassay. Korčáková L, et al. **Czech Med** 1990;13(1):29–33

Characterization of human anti–cytomegalovirus monoclonal antibody as biologics. Masuho Y, et al. **Dev Biol Stand** 1990;71:127–36

Immunological status to Epstein–Barr virus and cytomegalovirus in patients with genital condylomata. Zerbini M, et al. **Eur J Epidemiol** 1989 Sep;5(3):343–7

Screening for cytomegalovirus antibody [letter; comment] Hammitt DG, et al. **Fertil Steril** 1990 Jan;53(1):185–6 Comment on: Fertil Steril 1989 May;51(5):901–2.

Kinetics of anti–CMV antibodies after administration of intravenous immunoglobulins to bone marrow transplant recipients. Bosi A, et al. **Haematologica** 1990 Mar–Apr; 75(2):109–12

Progress toward developing a cytomegalovirus vaccine. Marshall GS, et al. **Infect Dis Clin North Am** 1990 Jun; 4(2):283–98 (76 ref.)

Cytomegalovirus antibody in the elderly. Weymouth LA, et al. **Intervirology** 1990;31(2–4):223–9

Detection of cytomegalovirus–specific IGM in renal transplant recipients. McMahon CA, et al. **J Clin Lab Anal** 1989;3(6):350–4

Evaluation of the CMV–CUBE assay for detection of cytomegalovirus serologic status in marrow transplant patients and marrow donors. Gleaves CA, et al. **J Clin Microbiol** 1990 May;28(5):841–2

Evaluation of a latex particle agglutination assay for the detection of cytomegalovirus antibody in patient serum. Hursh DA, et al. **J Clin Microbiol** 1989 Dec;27(12):2878–9

Large–scale screening of human sera with cytomegalovirus recombinant antigens. Landini MP, et al. **J Clin Microbiol** 1990 Jun;28(6):1375–9

Antibodies to cytomegalovirus in renal allograft recipients: correlation with isolation of virus. Dolan J, et al. **J Clin Pathol** 1989 Oct;42(10):1070–7

Cmv–1, a genetic locus that controls murine cytomegalovirus replication in the spleen. Scalzo AA, et al. **J Exp Med** 1990 May 1;171(5):1469–83

Immunoblot analysis of the antibody response to murine cytomegalovirus in genetically resistant and susceptible mice. Farrell HE, et al. **J Gen Virol** 1989 Oct;70 (Pt 10):2573–86

Characterization of neutralizing monoclonal antibodies to murine cytomegalovirus. Farrell HE, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):655–64

Predominant utilization of V beta 8+ T cell receptor genes in the H–2Ld–restricted cytotoxic T cell response against the immediate–early protein pp89 of the murine cytomegalovirus. Rodewald HR, et al. **J Immunol** 1989 Dec 15;143(12):4238–43

Production of human monoclonal IgG antibodies reacting with cytomegalovirus (CMV). Bron D, et al. **J Immunol Methods** 1990 Jul 3;130(2):209–16

Long term expansion of cytomegalovirus-specific T cell lines in the absence of antigen or antigen-presenting cells. Use of monosized polystyrene particles coated with agonistic antibodies. Santamaria P, et al. **J Immunol Methods** 1990 Aug 28;132(1):1–11

Preparation of human monoclonal antibodies against a cytomegalovirus glycoprotein complex of 130 and 55 kDa. Tomiyama T, et al. **J Immunol Methods** 1990 Aug 7; 131(2):249–55

Antiviral antibody responses in mothers and their newborn infants with clinical and subclinical congenital cytomegalovirus infections. Britt WJ, et al. **J Infect Dis** 1990 Feb;161(2):214–9

Cytomegalovirus infection in women attending a sexually transmitted disease clinic. Collier AC, et al. **J Infect Dis** 1990 Jul;162(1):46–51

Dual antibody rises to cytomegalovirus and human herpesvirus type 6: frequency of occurrence in CMV infections and evidence for genuine reactivity to both viruses. Irving WL, et al. **J Infect Dis** 1990 May; 161(5):910–6

The effect of human cytomegalovirus on the production and biologic action of interleukin-1. Moses AV, et al. **J Infect Dis** 1990 Aug;162(2):381–8

Immunohistochemical detection of an immediate early antigen of human cytomegalovirus in normal tissues. Toorkey CB, et al. **J Infect Dis** 1989 Nov;160(5):741–51

Complement-independent neutralising monoclonal antibody with differential reactivity for strains of human cytomegalovirus. Baboonian C, et al. **J Med Virol** 1989 Oct;29(2):139–45

Detection of human cytomegalovirus early and late antigen and DNA production in cell culture and the effects of dimethyl sulfoxide, dexamethasone, and DNA inhibitors on early antigen induction. Li SB, et al. **J Med Virol** 1990 Feb;30(2):97–102

Biological response modifier enhances the activity of natural killer cell against human cytomegalovirus-infected cells. Murayama T, et al. **J Med Virol** 1989 Oct;29(2):102–8

Detection of human cytomegalovirus immediate early antigen in leukocytes as a marker of viremia in immunocompromised patients. Revello MG, et al. **J Med Virol** 1989 Oct;29(2):88–93

In vivo administration of monoclonal antibody to the NK 1.1 antigen of natural killer cells: effect on acute murine cytomegalovirus infection. Shanley JD. **J Med Virol** 1990 Jan;30(1):58–60

Sjögren's syndrome: no demonstrable association by serology of secondary Sjögren's syndrome with cytomegalovirus. Scully C. **J Oral Pathol Med** 1990 Jan;19(1):43–4

Serological survey of antibodies to cytomegalovirus in the Santa Cruz region of Bolivia. Bartoloni A, et al. **J Trop Med Hyg** 1989 Dec;92(6):391–2

Immunoradiometric assay for cytomegalovirus-specific IgG antibodies: assay development and evaluation in blood transfusion practice. Klapper PE, et al. **J Virol Methods** 1990 Mar;27(3):327–39

Detection of immediate early, early and late antigens of human cytomegalovirus by flow cytometry. Schols D, et al. **J Virol Methods** 1989 Dec;26(3):247–54

Early detection of cytomegalovirus in cell culture by a new monoclonal antibody, CCH2. Zweygberg Wirgart B, et al. **J Virol Methods** 1990 Feb;27(2):211–9

From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Jul 11;264(2):168

Increased monokines in cytomegalovirus infected myelomonocytic cell cultures. Turtinen LW, et al. **Microb Pathog** 1989 Aug;7(2):135–45

Prevalence of cytomegalovirus antibodies in Brazilian and Japanese populations in the north-east of Brazil. Linhares MI, et al. **Microbiol Immunol** 1989;33(11):975–80

Antibody patterns against cytomegalovirus and Epstein-Barr virus in human atherosclerosis. Musiani M, et al. **Microbiologica** 1990 Jan;13(1):35–41

A prospective study of a rapid method for diagnosing cytomegalovirus infections in immunosuppressed patients. Aguado S, et al. **Nephron** 1989;53(4):322–4

Effectiveness and cost benefit of a proposed live cytomegalovirus vaccine in the prevention of congenital disease. Porath A, et al. **Rev Infect Dis** 1990 Jan–Feb; 12(1):31–40

The presence of infectious virus but not conventional antigen can exacerbate graft-versus-host reactions. Cray C, et al. **Scand J Immunol** 1990 Aug;32(2):177–82

Correlation between cytomegalovirus and toxoplasma gondii serology and lymphocyte phenotypes in peripheral blood and cord blood. Gratama JW, et al. **Scand J Infect Dis** 1989;21(6):611–6

Cytomegalovirus antibodies in Nigeria. Williams JO, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):260

Cytomegalovirus infections in seropositive patients after transfusion. The effect of red cell storage and volume. Adler SP, et al. **Transfusion** 1989 Oct;29(8):667–71

Neonatal pretransfusion testing for cytomegalovirus antibody [letter] Grossman BJ, et al. **Transfusion** 1989 Nov–Dec; 29(9):830–1

Immunoglobulin G subclass responses to cytomegalovirus in seropositive patients after transfusion. Rodriguez GE, et al. **Transfusion** 1990 Jul–Aug;30(6):528–31

Increased prevalence of CMV seropositivity in pediatric oncology patients [letter] Vaudry WL, et al. **Transfusion** 1990 Jul–Aug;30(6):573–4

Detection of cytomegalovirus-specific early antigens from blood leukocytes and bronchoalveolar lavage cells in the diagnosis of active cytomegalovirus infection in transplant patients. Lautenschlager I, et al. **Transplant Proc** 1990 Feb; 22(1):233

Interaction between cytomegalovirus and Staphylococcus aureus protein A in immunoglobulin secretion and DNA synthesis. Paulin T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2133–4

Proliferative response against cytomegalovirus and prognosis of renal transplant and IgA nephropathy patients. Sakamaki T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2135–6

Use of a human monoclonal anti-cytomegalovirus antibody for the treatment of severe cytomegalovirus after renal transplantation. Skarp-Orberg I, et al. **Transplant Proc** 1990 Feb;22(1):234

Cytomegalovirus antigenemia as a useful marker of symptomatic cytomegalovirus infection after renal transplantation—a report of 130 consecutive patients. van den Berg AP, et al. **Transplantation** 1989 Dec;48(6):991–5

Isolated gA/gB glycoprotein complex of human cytomegalovirus envelope induces humoral and cellular immune-responses in human volunteers. Gonczol E, et al. **Vaccine** 1990 Apr;8(2):130–6

Murine cytomegalovirus-induced suppression of antigen-specific cytotoxic T lymphocyte maturation. Campbell AE, et al. **Virology** 1989 Nov;173(1):268–75

Evidence that HIV-1 gag precursor shares antigenic sites with the major capsid protein of human cytomegalovirus. Gibson W, et al. **Virology** 1990 Apr;175(2):595–9

[Viral etiology of cancer of the uterine cervix. II. Detection of human cytomegalovirus DNA sequence and antigen in cervical lesions] Meng XJ. **Chung Hua Chung Liu Tsa Chih** 1989 Jul;11(4):263–5 (Eng. Abstr.) **(Chi)**

[A serological study on anti-CMV and anti-EBV antibodies in population of Beijing, Changzhi Shanxi and Yichang Hubei] Liu YT. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):277–81 (Eng. Abstr.) **(Chi)**

[Diagnosis of congenital CMV infection by specific CMV IgM antibody in cord serum with ELISA] Guo TL, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec; 20(4):422–5 (Eng. Abstr.) **(Chi)**

[Initial experience with the use of monoclonal antibodies in the detection of cytomegalovirus early antigens in patients with transplants] Bruček P, et al. **Cas Lek Cesk** 1990 Jun 22;129(25):796–7 (Eng. Abstr.) **(Cze)**

[Production, purification and evaluation of human cytomegalovirus 66 kD structural antigen for antibody detection by ELISA] Gireaudot P, et al. **Pathol Biol (Paris)** 1989 Dec;37(10):1141–4 (Eng. Abstr.) **(Fre)**

[Serum immunoglobulin concentrations in patients following bone marrow transplantation and preventive administration of high-dose nonspecific or normal-dose CMV-specific immunoglobulin] Berger C, et al. **Beitr Infusionther** 1989; 24:112–21 (Eng. Abstr.) **(Ger)**

[Serological studies of cytomegalovirus in the Melut district, South Sudan] Sixl W, et al. **Geogr Med Suppl** 1989;5:179–88 (Eng. Abstr.) **(Ger)**

[Experiences with a "rapid test" in detecting antibodies to cytomegalovirus] Milbradt H. **Klin Wochenschr** 1989 Aug 17;67(16):839–40 (Eng. Abstr.) **(Ger)**

[Cytomegalovirus infection and inner ear deafness] Morgenstern C, et al. **Laryngorhinootologie** 1989 Sep; 68(9):503–5 (Eng. Abstr.) **(Ger)**

[Evaluation of IgM anti human cytomegalovirus antibody] Aochi H, et al. **Rinsho Byori** 1990 Jul;38(7):789–93 (Eng. Abstr.) **(Jpn)**

[Control of interstitial pneumonia with the application of immune transfer] Otsuka M, et al. **Rinsho Ketsueki** 1990 May;31(5):584–8 (Eng. Abstr.) **(Jpn)**

[Detection of antibodies to cytomegaloviruses, herpes simplex viruses and varicella-zoster viruses in persons positive for human immunodeficiency virus antibodies] Kuljić-Kapulica N, et al. **Srp Arh Celok Lek** 1989 Jul–Aug; 117(7–8):483–9 (Eng. Abstr.) **(Scc)**

[Rapid diagnosis of cytomegalovirus in immunocompromised patients using monoclonal antibodies that detect early viral antigens] Alvarez M, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;84(2):265–8 (Eng. Abstr.) **(Spa)**

[Intrathecal secretion of antiviral antibodies in multiple sclerosis in patients in Seville] Izquierdo G, et al. **Neurologia** 1990 May;5(5):151–4 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Clinical comparison of two assays for rapid detection of cytomegalovirus early nuclear antigen. Woods GL, et al. **Am J Clin Pathol** 1990 Mar;93(3):373–7

A comparison of routine light microscopy, immunohistochemistry, and in situ hybridization for the detection of cytomegalovirus in gastrointestinal biopsies. Wu GD, et al. **Am J Gastroenterol** 1989 Dec;84(12):1517–20

Prenatal diagnosis of congenital cytomegalovirus infection: two decades later. Grose C, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):447–50

Cytomegalovirus in the normal pregnant woman. Hildebrandt RJ, et al. **Am J Obstet Gynecol** 1967 Aug 15; 98(8):1125–8

High prevalence of latently present cytomegalovirus in arterial walls of patients suffering from grade III atherosclerosis. Hendrix MG, et al. **Am J Pathol** 1990 Jan; 136(1):23–8

Cytomegalovirus is frequently isolated in bronchoalveolar lavage fluid of bone marrow transplant recipients without pneumonia. Ruutu P, et al. **Ann Intern Med** 1990 Jun 15; 112(12):913–6

Detection of cytomegalovirus-infected cells in autopsy material by in situ hybridization. Andersen CB. **APMIS** 1990 Apr;98(4):363–8

The value of immunohistochemistry and in situ hybridization in detecting cytomegalovirus in bone marrow transplant recipients. Rasing LA, et al. **APMIS** 1990 Jun;98(6):479–88

Cytomegalovirus is predictably present in perineal ulcers from immunosuppressed patients. Horn TD, et al. **Arch Dermatol** 1990 May;126(5):642–4

Correlation of in situ hybridization with histology and viral culture in patients with acquired immunodeficiency syndrome with cytomegalovirus colitis [see comments] Clayton F, et al. **Arch Pathol Lab Med** 1989 Oct; 113(10):1124–6 Comment in: Arch Pathol Lab Med 1990 Jul;114(7):639.

Analysis of human immunodeficiency virus and cytomegalovirus infection by polymerase chain reaction in the acquired immunodeficiency syndrome. An autopsy study. Shibata D, et al. **Arch Pathol Lab Med** 1989 Nov; 113(11):1239–44

In situ hybridization for detection of cytomegalovirus [letter; comment] Strickler JG, et al. **Arch Pathol Lab Med** 1990 Jul;114(7):639 Comment on: Arch Pathol Lab Med 1989 Oct;113(10):1124–6.

Immunological and molecular comparison of simian cytomegaloviruses isolated from African green monkey (Cercopithecus aethiops) and Japanese macaque (Macaca fuscata). Eizuru Y, et al. **Arch Virol** 1989;107(1–2):65–75

Cytomegalovirus in blood from blood donors [letter; comment] Contreras M, et al. **BMJ** 1989 Oct 28; 299(6707):1098 Comment on: BMJ 1989 Oct 7;299(6704):897–8.

Persistence of cytomegalovirus in peripheral blood from blood donors [letter] Morris DJ, et al. **BMJ** 1989 Nov 4; 299(6708):1164–5

Persistence of cytomegalovirus in mononuclear cells in peripheral blood from blood donors [see comments] Stanier P, et al. **BMJ** 1989 Oct 7;299(6704):897–8 Comment in: BMJ 1989 Oct 28;299(6707):1098.

Cytomegalovirus (CMV) titers among acquired immunodeficiency syndrome (AIDS) patients with and without a history of Kaposi's sarcoma (KS). Johnston GS, et al. **Cancer Detect Prev** 1990;14(3):337–42

Cytomegalovirus in the bronchoalveolar lavage fluid of patients with AIDS. Miles PR, et al. **Chest** 1990 May; 97(5):1072–6

Effect of treatment of shell vial cell cultures with dimethyl sulfoxide and dexamethasone and age of MRC-5 monolayers for detection of cytomegalovirus. Fedorko DP, et al. **Diagn Microbiol Infect Dis** 1990 Jan–Feb;13(1):41–4

Correlation of urine pH with the detection of cytomegalovirus by the shell vial technique. Gray LD, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3):275–7

Opportunistic agents in bronchoalveolar lavage in 99 HIV seropositive patients. Durand-Amat S, et al. **Eur Respir J** 1990 Mar;3(3):282–7

Rapid detection of human cytomegalovirus in immunocompromised patients. Del Pezzo M, et al. **G Batteriol Virol Immunol** 1988 Jan–Dec;81(1–12):25–31

Early diagnosis of cytomegalovirus hepatitis in liver transplant recipients: role of immunostaining, DNA hybridization and culture of hepatic tissue. Paya CV, et al. **Hepatology** 1990 Jul;12(1):119–26

Comparison of in situ hybridization and immunohistochemistry for detection of cytomegalovirus and herpes simplex virus. Strickler JG, et al. **Hum Pathol** 1990 Apr;21(4):443–8

A simple and rapid procedure for the direct detection of cytomegalovirus in urine samples. Landini MP, et al. **J Clin Lab Anal** 1990;4(3):161–4

Comparison of monoclonal antibodies for rapid detection of cytomegalovirus in spin-amplified plate cultures. Ashley R, et al. **J Clin Microbiol** 1989 Dec;27(12):2858–60

Direct detection of cytomegalovirus from bronchoalveolar lavage samples by using a rapid in situ DNA hybridization assay. Gleaves CA, et al. **J Clin Microbiol** 1989 Nov; 27(11):2429–32

Comparison of immunoblotting with other serological methods and virus isolation for the early detection of primary cytomegalovirus infection in allograft recipients. Miller H, et al. **J Clin Microbiol** 1989 Dec;27(12):2672–7

Enhanced recovery of cytomegalovirus in conventional tube cultures with a spin-amplified adsorption. Oefinger PE, et al. **J Clin Microbiol** 1990 May;28(5):965–9

Comparative recovery of cytomegalovirus from saliva, mucolysed induced sputum, and bronchoalveolar lavage fluid from patients at risk for or with acquired immunodeficiency syndrome. Rush JD, et al. **J Clin Microbiol** 1989 Dec;27(12):2864–5

Enhancement by calcium of the detection of cytomegalovirus in cells treated with dexamethasone and dimethyl sulfoxide. West PG, et al. **J Clin Microbiol** 1990 Aug;28(8):1708–10

Localization of human cytomegalovirus in peripheral blood

leukocytes by in situ hybridization. Denkner WM, et al. **J Infect Dis** 1990 Jan;161(1):31–6

Detection of mouse cytomegalovirus nucleic acid in latently infected mice by in vitro enzymatic amplification. Klotman ME, et al. **J Infect Dis** 1990 Feb;161(2):220–5

Comparison of culture and serology for the diagnosis of cytomegalovirus infection in kidney and liver transplant recipients. Marsano L, et al. **J Infect Dis** 1990 Mar; 161(3):454–61

Cytomegalovirus excretion as a predictor of cytomegalovirus disease after marrow transplantation: importance of cytomegalovirus viremia. Meyers JD, et al. **J Infect Dis** 1990 Aug;162(2):373–80

Direct detection of human cytomegalovirus in urine specimens from renal transplant patients following polymerase chain reaction amplification. Olive DM, et al. **J Med Virol** 1989 Dec;29(4):232–7

Role of primary and secondary maternal viremia in transplacental guinea pig cytomegalovirus transfer. Griffith BP, et al. **J Virol** 1990 May;64(5):1991–7

Discordant results obtained on testing sera from immunocompromised patients for cytomegalovirus IgG by enzyme–linked immunosorbent assay and radioimmunoassay. Booth JC, et al. **J Virol Methods** 1989 Oct;26(1):77–89

Hybridization techniques provide improved sensitivity for HCMV detection and allow quantitation of the virus in clinical samples. Einsele H, et al. **J Virol Methods** 1989 Oct;26(1):91–104

Rapid detection of cytomegalovirus in bronchoalveolar lavage specimens from marrow transplant patients: evaluation of a direct fluorescein–conjugated monoclonal antibody reagent. Gleaves CA, et al. **J Virol Methods** 1989 Dec;26(3):345–9

Cellular localization of cytomegalovirus nucleic acids in guinea pig salivary glands by in situ hybridization. Griffith BP, et al. **J Virol Methods** 1990 Feb;27(2):145–57

Comparison of polyethylene glycol precipitation and ultracentrifugation for recovery of cytomegalovirus from urine prior to detection of DNA by dot–blot hybridisation. Kimpton CP, et al. **J Virol Methods** 1990 May;28(2):141–5

Increased sensitivity for rapid detection of cytomegalovirus by shell vial centrifugation assay using mink lung cell cultures. MacKenzie D, et al. **J Virol Methods** 1989 Nov; 26(2):183–8

Cytomegalovirus antigens in IgA nephropathy: fact or artefacts? [letter] Lai FM, et al. **Nephron** 1990;55(1):87–8

Detection of cytomegalovirus in paraffin–embedded lung tissue sections. Honda Y. **Sci Rep Res Inst Tohoku Univ [Med]** 1989 Dec; 36(1–4):17–28

Isolation of cytomegalovirus from the lung tissue of patients with intrapulmonary neoplasma. Oizumi K, et al. **Tohoku J Exp Med** 1989 Aug;158(4):335–6

Intrapancreatic abscess formation in pancreatic transplant recipients with positive cytomegalovirus serology: a rare cause of graft loss which may be prevented. Bäckman L, et al. **Transplant Proc** 1990 Apr;22(2):639–40

Donor selection for orthotopic liver transplantation: lack of an effect of gender or cytomegalovirus (CMV) status. Stratta RJ, et al. **Transplant Proc** 1990 Apr;22(2):410–3

METABOLISM

Identification of a putative cell receptor for human cytomegalovirus. Adlish JD, et al. **Virology** 1990 Jun; 176(2):337–45

PATHOGENICITY

Cytomegalovirus in the lungs of patients with AIDS. Respiratory pathogen or passenger? Millar AB, et al. **Am Rev Respir Dis** 1990 Jun;141(6):1474–7

Cell activation signals and the pathogenesis of human cytomegalovirus. Albrecht T, et al. **Intervirology** 1990; 31(2–4):68–75 (24 ref.)

Mechanisms of cytomegalovirus–mediated myelosuppression: perturbation of stromal cell function versus direct infection of myeloid cells. Simmons P, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1386–90

The ability of murine cytomegalovirus and class I major histocompatibility complex–disparate parental cells to induce alterations characteristic of severe graft–versus–host reactions. Cray C, et al. **Transplantation** 1989 Dec; 48(6):1057–63

Cultured human brain capillary endothelial cells are permissive for infection by human cytomegalovirus. Lathey JL, et al. **Virology** 1990 May;176(1):266–73

PHYSIOLOGY

Stimulation of the human immunodeficiency virus type 2 (HIV–2) gene expression by the cytomegalovirus and HIV–2 transactivator gene. Arya SK, et al. **AIDS Res Hum Retroviruses** 1990 May;6(5):649–58

Preferential suppression of myelopoiesis in normal human bone marrow cells after in vitro challenge with human cytomegalovirus. Sing GK, et al. **Blood** 1990 May 15; 75(10):1965–73

The effects of a promoter of cell differentiation and selected hormones on human cytomegalovirus infection using an in vitro cell system. Forbes BA, et al. **J Infect Dis** 1990 Jul;162(1):39–45

The human cytomegalovirus receptor on fibroblasts is a 30–kilodalton membrane protein. Taylor HP, et al. **J Virol** 1990 Jun;64(6):2484–90

Identification of cell surface receptors for the 86–kilodalton glycoprotein of human cytomegalovirus. Keay S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10100–3

Viral infection of endothelial cells [letter; comment] Bruggeman CA, et al. **Rev Infect Dis** 1990 Mar–Apr; 12(2):367–9 Comment on: Rev Infect Dis 1989 May–Jun;11 Suppl 4:S700–4.

Cell–activation responses to cytomegalovirus infection relationship to the phasing of CMV replication and to the induction of cellular damage. Albrecht T, et al. **Subcell Biochem** 1989;15:157–202 (130 ref.)

Effects of cyclosporine, azathioprine, mizoribine, and prednisolone on replication of human cytomegalovirus. Shiraki K, et al. **Transplant Proc** 1990 Aug;22(4):1682–5

[The effect of immunoglobulin preparation to cell infection with cytomegalovirus in vitro] Oizumi Y, et al. **Kansenshogaku Zasshi** 1989 Oct;63(10):1182–6 (Eng. Abstr.) **(Jpn)**

[A study of the effect of thymotropin on immunologic indicators and excretion of virus in women with chronic cytomegalovirus infection] Savitskiĭ GI, et al. **Vopr Virusol** 1989 Jul–Aug;34(4):434–6 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Carbon–based immunocytochemistry. A new approach to the immunostaining of epoxy–resin–embedded material. Baigent CL, et al. **J Microsc** 1990 Apr;158 (Pt 1):73–80

[Application of electron microscopy in the rapid diagnosis of congenital cytomegalovirus infections (letter)] Margall N, et al. **Med Clin (Barc)** 1989 May 27;92(20):794–5 **(Spa)**

CYTOMETRY, FLOW see FLOW CYTOMETRY

CYTOPATHIC EFFECT, VIRAL see CYTOPATHOGENIC EFFECT, VIRAL

CYTOPATHOGENIC EFFECT, VIRAL

see related

PLAQUE ASSAY

Use of human monocytes in the evaluation of antiviral drugs: quantitation of HSV–1 cytopathic effects. Lazdins J, et al. **Antiviral Res** 1990 Apr;13(4):175–86

Presumptive identification of enteroviruses with RD, HEp–2, and RMK cell lines. Johnston SL, et al. **J Clin Microbiol** 1990 May;28(5):1049–50

Cytopathic effect determined by the amount of CD4 molecules in human cell lines expressing envelope glycoprotein of HIV. Koga Y, et al. **J Immunol** 1990 Jan 1;144(1):94–102

The leukocyte adhesion glycoprotein CD18 participates in HIV–1–induced syncytia formation in monocytoid and T cells. Valentin A, et al. **J Immunol** 1990 Feb 1;144(3):934–7

[Pathogenesis of AIDS: possible role of co–factors in HIV reactivation] Veronesi R, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 May–Jun; 44(3):115–20 (31 ref.) (Eng. Abstr.) **(Por)**

DRUG EFFECTS

Correlation between carbohydrate structures on the envelope glycoprotein gp120 of HIV–1 and HIV–2 and syncytium inhibition with lectins. Hansen JE, et al. **AIDS** 1989 Oct; 3(10):635–41

Inhibition of human immunodeficiency virus type 1–mediated cytopathic effects by poly(L–lysine)–conjugated synthetic antisense oligodeoxyribonucleotides. Stevenson M, et al. **J Gen Virol** 1989 Oct;70 (Pt 10):2673–82

Inhibition of simian virus 40 DNA replication in CV–1 cells by an oligodeoxynucleotide covalently linked to an intercalating agent. Birg F, et al. **Nucleic Acids Res** 1990 May 25;18(10):2901–8

[Effect of dexamethasone on Coxsackie B–2 virus–infected rat beating heart cells in culture] Yang YZ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):346–9 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

[Role of macrophages in the pathogenesis of HIV infection] Wolff K. **Verh Dtsch Ges Inn Med** 1989;95:414–5 **(Ger)**

PHYSIOLOGY

Role of matrix protein in cytopathogenesis of vesicular stomatitis virus. Blondel D, et al. **J Virol** 1990 Apr; 64(4):1716–25

CYTOPHAGA

ANALYSIS

Topostin, a novel inhibitor of mammalian DNA topoisomerase I from Flexibacter topostinus sp. nov. II. Purification and some properties of topostin. Ikegami Y, et al. **J Antibiot (Tokyo)** 1990 Feb;43(2):158–62

Surface proteins of the gliding bacterium Cytophaga sp. strain U67 and its mutants defective in adhesion and motility. Burchard RP, et al. **J Bacteriol** 1990 Jun;172(6):3379–87

Use of nonmotile mutants to identify a set of membrane proteins related to gliding motility in Cytophaga johnsonae. Pate JL, et al. **J Bacteriol** 1990 Jun;172(6):3117–24

GENETICS

Outer membrane polysaccharide deficiency in two nongliding mutants of Cytophaga johnsonae. Godchaux W 3d, et al. **J Bacteriol** 1990 Mar;172(3):1250–5

ISOLATION & PURIFICATION

[Bacteria of the Flexibacter/Sporocytophaga group and violet–pigmented bacteria as indicators for hygienically doubtful drinking water] Schindler PR, et al. **Zentralbl Hyg Umweltmed** 1989 Oct;189(1):29–36 (Eng. Abstr.) **(Ger)**

METABOLISM

Topostin, a novel inhibitor of mammalian DNA topoisomerase I from Flexibacter topostinus sp. nov. I. Taxonomy, and fermentation of producing strain. Suzuki K, et al. **J Antibiot (Tokyo)** 1990 Feb;43(2):154–7

PHYSIOLOGY

Effect of temperature shifts on gliding motility, adhesion, and fatty acid composition of Cytophaga sp. strain U67. McGrath CF, et al. **J Bacteriol** 1990 Apr;172(4):1978–82

CYTOPHAGACEAE

Precipitous hypotension in the emergency department caused by Capnocytophaga canimorsus sp nov sepsis. Howell JM, et al. **Am J Emerg Med** 1990 Jul;8(4):312–4

Capnocytophaga keratitis associated with poor dentition and human immunodeficiency virus infection. Ticho BH, et al. **Am J Ophthalmol** 1990 Mar 15;109(3):352–3

T lymphocyte disorder after Capnocytophaga ochracea endocarditis. Gormand F, et al. **Infection** 1989 Nov–Dec; 17(6):382–4

Capnocytophaga canimorsus (formerly DF–2) infections: review of the literature. Krol–van Straaten MJ, et al. **Neth J Med** 1990 Jun;36(5–6):304–9 (52 ref.)

Beware of the dog: meningitis in a splenectomised woman. Krol–van Straaten MJ, et al. **Neth J Med** 1990 Jun; 36(5–6):301–3

[Capnocytophaga meningitis (letter)] Driencourt JB, et al. **Presse Med** 1990 Mar 17;19(10):474 **(Fre)**

[A case of septicemia due to Capnocytophaga ochracea beginning post radiation therapy for lung cancer] Nakano Y, et al. **Kansenshogaku Zasshi** 1990 Mar;64(3):342–9 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Occurrence of poly–beta–hydroxybutyrate in Spirulina species. Vincenzini M, et al. **J Bacteriol** 1990 May; 172(5):2791–2

CLASSIFICATION

Protein profiles of Capnocytophaga species. Khwaja KJ, et al. **J Appl Bacteriol** 1990 Apr;68(4):385–90

IMMUNOLOGY

Use of adhesin–specific monoclonal antibodies to identify and localize an adhesin on the surface of Capnocytophaga gingivalis DR2001. Tempro P, et al. **Infect Immun** 1989 Nov;57(11):3418–24

Structure of a streptococcal adhesin carbohydrate receptor. Cassels FJ, et al. **J Biol Chem** 1990 Aug 25; 265(24):14127–35

Polymorphonuclear leukocyte phagocytosis of Capnocytophaga ochracea in three–dimensional plasma clots. Hurst TJ, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):487–98

ISOLATION & PURIFICATION

Capnocytophaga canimorsus as the cause of a chronic corneal infection. de Smet MD, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):240–2

Capnocytophaga infection involving a portal–systemic vascular shunt. Mello KA, et al. **Dig Dis Sci** 1990 Jul; 35(7):909–11

Dysgonic fermenter 3–associated abscess in a diabetic patient. Bangsborg JM, et al. **J Infect** 1990 May;20(3):237–40

Capnophilic and anaerobic bacteremia in neutropenic patients: an oral source. Baquero F, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 2:S157–60

CYTOPHAGALES

CYTOLOGY

A stable variant of Simonsiella muelleri with unusual colonial and cellular morphology. Whitehouse RL, et al. **J Bacteriol** 1990 Mar;172(3):1673–5

GENETICS

Characterization of the oxygen–dependent promoter of the Vitreoscilla hemoglobin gene in Escherichia coli. Khosla C, et al. **J Bacteriol** 1989 Nov;171(11):5990–6004

CYTOPHOTOMETRY

The use of microfluorometry to study DNA in nasopharyngeal carcinomas: a possible prognostic tool? Caliceti U, et al. **Arch Otorhinolaryngol** 1989;246(5):365–7

DNA cytophotometric findings in pheochromocytoma. Padberg BC, et al. **Henry Ford Hosp Med J** 1989; 37(3–4):185–6

Cytophotometric investigations on atypical epithelial cells of the human seminal vesicle. Károlyi P, et al. **Int Urol Nephrol** 1989;21(4):399–402

Cytophotometric differentiation of high elevation spruces: physiological and ecological implications. Berlyn GP, et al. **Stain Technol** 1990;65(1):1–14

[Diagnosis of gonorrhea using a microfluorimetric Neisseria gonorrheae–specific enzyme detection test] Grabert E, et al. **Z Gesamte Hyg** 1989 Oct;35(10):610–2 (Eng. Abstr.) **(Ger)**

METHODS

DNA ploidy and cytophotometric analysis of cervical intraepithelial neoplasia grade III and invasive squamous cell carcinoma. Hanselaar AG, et al. **Cytometry** 1990; 11(5):624–9

An introduction to microelectrophoresis and microinjection techniques in microfluorimetry. Kohen E, et al. **Exp Cell Res** 1966 Jan;41(1):223–6

Methods of microphotometric assay of succinate dehydrogenase and cytochrome c oxidase activities for use on human skeletal muscle. Old SL, et al. **Histochem J** 1989 Sep–Oct;21(9–10):545–55

The principle of determining relative enzyme activities by comparative kinetic microphotometry in situ. Pette D, et al. **Histochem J** 1989 Sep–Oct;21(9–10):531–4 (22 ref.)

Plateau absorbance measurements: an alternative approach to enzyme activity determination illustrated by the example of alkaline phosphatase. Van Duijn P, et al. **Histochem J** 1989 Sep–Oct;21(9–10):619–24

Cytophotometric analysis of enzyme reaction rates in tissue sections [editorial] Van Noorden CJ. **Histochem J** 1989 Sep–Oct;21(9–10):515–6

A cytofluorometric method to quantify membrane antigens on individual alveolar macrophages. Pankow W, et al. **J Immunol Methods** 1990 May 8;129(1):127–33

Cytophotometry in tumor pathology. A critical review of methods and applications, and some results of DNA analysis. Mellin W. **Pathol Res Pract** 1990 Feb;186(1):37–62 (219 ref.)

Scanning microfluorometry in intravital microvascular research. Witte S. **Res Exp Med (Berl)** 1989;189(4):229–39

[A photographic microfluorimetric method for determining the DNA content in individual human chromosomes] Sukhikh TR, et al. **Tsitologiia** 1989 Nov;31(11):1329–38 (Eng. Abstr.) **(Rus)**

CYTOPLASM

ANALYSIS

Primary structure of the cytoplasmic domain of human erythrocyte protein band 3. Comparison with its sequence in the mouse. Yannoukakos D, et al. **Biochim Biophys Acta** 1989 Sep 14;998(1):43–9

Monoclonal antibody production against a subcellular fraction of vegetal pole cytoplasm containing the germ plasm of Xenopus 2-cell eggs. Nakazato S, et al. **Cell Differ Dev** 1989 Sep;27(3):163–74

Intracellular distribution of a 32-KDa calcium–dependent phospholipid–binding protein from human placenta. Giga-Hama Y, et al. **Cell Struct Funct** 1989 Oct; 14(5):587–95

The p36 substrate of pp60src kinase is located at the cytoplasmic surface of the plasma membrane of fibroblasts; an immunoelectron microscopic analysis. Semich R, et al. **Eur J Cell Biol** 1989 Dec;50(2):313–23

On the relation between distinct components of the cytoskeleton: an epitope shared by intermediate filaments, microfilaments and cytoplasmic foci. Turner JR, et al. **Eur J Cell Biol** 1990 Apr;51(2):259–64

Ca2+ binding capacity of cytoplasmic proteins from rod photoreceptors is mainly due to arrestin. Huppertz B, et al. **J Biol Chem** 1990 Jun 5;265(16):9470–5

Identification of a cytoplasmic region of the Torpedo nicotinic acetylcholine receptor alpha–subunit by epitope mapping. Pedersen SE, et al. **J Biol Chem** 1990 Jan 5; 265(1):569–81

Observations on ultracentrifuging wild–type and mutant (cdc2.33) cells of Schizosaccharomyces pombe. Khar A, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):345–8

Glycogen accumulation in the renal tubular cells of spontaneously occurring diabetic WBN/Kob rats. Tsuchitani M, et al. **J Comp Pathol** 1990 Feb;102(2):179–90

Organelle–free cytoplasmic volume fraction of rabbit retinal Müller (glial) cells. Reichenbach A. **J Hirnforsch** 1989; 30(5):513–6

Conservation of a cytoplasmic carboxy–terminal domain of connexin 43, a gap junctional protein, in mammal heart and brain. el Aoumari A, et al. **J Membr Biol** 1990 May; 115(3):229–40

Elemental composition of polyphosphate–containing vacuoles and cytoplasm of Leishmania major. LeFurgey A, et al. **Mol Biochem Parasitol** 1990 Apr;40(1):77–86

DRUG EFFECTS

The relationship between mitogen–induced changes in the cytoplasmic pH and free Ca2+ concentration in rat thymocytes. Gukovskaya AS, et al. **Biochim Biophys Acta** 1990 Mar 9;1051(3):242–9

Paradoxical effect of bicarbonate on cytoplasmic pH [see comments] Ritter JM, et al. **Lancet** 1990 May 26; 335(8700):1243–6 Comment in: Lancet 1990 Jun 30;335(8705):1586–8.

Bicarbonate and cytoplasmic pH [letter] Ritter JM, et al. **Lancet** 1990 Aug 11;336(8711):372–3

[Lipopolysaccharide–containing cytoplasmic membranes as immunostimulants of peritoneal macrophages] Ivanova E, et al. **Acta Microbiol Bulg** 1989;24:21–8 (Eng. Abstr.) **(Bul)**

[Centrosome behavior in the exposure of tissue culture cells to energy metabolism inhibitors] Alieva IB, et al. **Biol Nauki** 1989;(6):45–9 (Eng. Abstr.) **(Rus)**

[The centrosome reaction in tissue–culture cells to depolarization of the cell membranes] Alieva IB, et al. **Biol Nauki** 1990;(4):45–52 (Eng. Abstr.) **(Rus)**

[Characteristics of the action of dexamethasone and hydrocortisone on the biosynthesis of mitochondrial and cytoplasmic RNA in the rat liver] Minchenko AG, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):54–7 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Characterization of cytoplasmic and membrane–associated phosphatidylinositol 4,5–biphosphate phospholipase C activities in guinea pig ventricles. Edes I, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):78–87

Sequential processing of lysosomal acid phosphatase by a cytoplasmic thiol proteinase and a lysosomal aspartyl proteinase. Gottschalk S, et al. **EMBO J** 1989 Nov; 8(11):3215–9

Direct evidence for the cytoplasmic location of the NH2– and COOH–terminal ends of the Neurospora crassa plasma membrane H+–ATPase. Hennessey JP Jr, et al. **J Biol Chem** 1990 Jan 5;265(1):532–7

Enolase exists in the fluid phase of cytoplasm in 3T3 cells. Pagliaro L, et al. **J Cell Sci** 1989 Oct;94 (Pt 2):333–42

Regulation of the nuclear genes encoding the cytoplasmic and mitochondrial leucyl–tRNA synthetases of Neurospora crassa. Chow CM, et al. **Mol Cell Biol** 1989 Nov; 9(11):4645–52

[The heterogeneity of sorbitol dehydrogenase from the cytoplasm of mammalian brain cells] Sudovtsov VE, et al. **Biol Nauki** 1990;(2):35–41 (Eng. Abstr.) **(Rus)**

[The level of sorbitol dehydrogenase activity in the cytoplasm of mammalian liver cells] Sudovtsov VE, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Sep–Oct;(5):769–72 (Eng. Abstr.) **(Rus)**

[Activity of NADP–dependent cytoplasmic dehydrogenases in the liver and adipose tissue of rats in the restorative period after hypokinesia] Potapov PP. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):89–90 **(Rus)**

[The detection of sorbitol dehydrogenase in the cytoplasm of liver cells in birds and its relation to alcohol dehydrogenase and glucose–6–phosphate dehydrogenase] Sudovtsov VE, et al. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr;26(2):277–9 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Antibodies directed against the cytoplasm of neutrophils and monocytes. van der Woude FJ, et al. **Adv Nephrol** 1990; 19:211–24 (36 ref.)

Anti–neutrophil cytoplasmic autoantibody–associated glomerulonephritis and vasculitis. Jennette JC, et al. **Am J Pathol** 1989 Nov;135(5):921–30

Association between active Wegener's granulomatosis and anticytoplasmic antibodies. Cohen Tervaert JW, et al. **Arch Intern Med** 1989 Nov;149(11):2461–5

Ocular manifestations of patients with circulating antineutrophil cytoplasmic antibodies. Pulido JS, et al. **Arch Ophthalmol** 1990 Jun;108(6):845–50

Anti–neutrophil cytoplasm antibodies (ANCA). Savige JA, et al. **Aust N Z J Med** 1990 Jun;20(3):271–4 (35 ref.)

Specificity of anti–neutrophil cytoplasmic autoantibodies for proteinase 3 [letter; comment] Jennette JC, et al. **Blood** 1990 Jun 1;75(11):2263–4 Comment on: Blood 1989 Nov 1;74(6):1888–93.

Detection and clinical implication of anti–neutrophil cytoplasm antibodies in Wegener's granulomatosis and rapidly progressive glomerulonephritis. Andrassy K, et al. **Clin Nephrol** 1989 Oct;32(4):159–67

Severe pulmonary hemorrhage and systemic vasculitis in association with circulating anti–neutrophil cytoplasm antibodies of IgM class only. Jayne DR, et al. **Clin Nephrol** 1989 Sep;32(3):101–6

Pitfalls with anti–neutrophil cytoplasmic antibodies (ANCA). De Clerck LS, et al. **Clin Rheumatol** 1989 Dec;8(4):512–6

Trichinella spiralis: secreted antigen of the infective L1 larva localizes to the cytoplasm and nucleoplasm of infected host cells. Despommier DD, et al. **Exp Parasitol** 1990 Jul; 71(1):27–38

The prosomal protein of 27 kDa and a nuclear 38 kDa protein are immunologically related. Kreutzer–Schmid C, et al. **FEBS Lett** 1990 Jul 2;267(1):142–6

Antinuclear antibodies and anticytoplasmic antibodies in bronchial asthma. Menon P, et al. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 1):937–43

An ELISA for the detection of anti–neutrophil cytoplasm antibodies (ANCA). Rasmussen N, et al. **J Immunol Methods** 1990 Feb 20;127(1):139–45

Use of anticytoplasmic autoantibodies in the diagnosis of Wegener's granulomatosis with subglottic stenosis. Gaughan RK, et al. **Laryngoscope** 1990 Jun;100(6):561–3

Role of testing for anticytoplasmic autoantibodies in the differential diagnosis of scleritis and orbital pseudotumor. Kalina PH, et al. **Mayo Clin Proc** 1990 Aug;65(8):1110–7

Antineutrophilic cytoplasmic antibodies in systemic vasculitis [letter; comment] MacIsaac AI, et al. **Mayo Clin Proc** 1990 Jan;65(1):124–5 Comment on: Mayo Clin Proc 1989 May;64(5):535–43.

The conformational flexibility of class I H–2 molecules as revealed by anti–peptide antibodies specific for intracytoplasmic determinants: differential reactivity of beta 2–microglobulin "bound" and "free" H–2Kb heavy chains. Smith MH, et al. **Mol Immunol** 1990 Feb; 27(2):169–80

Intracytoplasmic localization of CD3 antigen in NKH1+ azurophilic granular T–lymphoblastic lymphoma cells. Yoda Y, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Jul; 52(4):740–8

Two ELISAs to detect anti–neutrophil cytoplasm antibodies (ANCA) in various vasculitides. Savige JA, et al. **Pathology** 1989 Oct;21(4):282–7

Anti–neutrophil cytoplasmatic antibodies in drug–induced Wegener–like disease [letter] Alon U, et al. **Pediatr Nephrol** 1990 May;4(3):299–300

Do anticytoplasmic autoantibodies (ACPA) extend our understanding of the spectrum of Wegener's granulomatosis? Specks U, et al. **Pneumologie** 1990 Feb;44 Suppl 1:424–5

Absence of circulating antineutrophil cytoplasm antibodies (ANCA) in severe vasculitis associated with rheumatoid arthritis. Nässberger L, et al. **Scand J Rheumatol** 1990; 19(3):189–92

Significance of antibodies to cytoplasmic components of neutrophils [letter; comment] Rudensky B, et al. **Thorax** 1990 Feb;45(2):158 Comment on: Thorax 1989 May;44(5):373–7.

[Antibodies directed against the cytoplasm of granulocytes. Diagnostic value in vasculitis] Adoue D, et al. **Ann Med Interne (Paris)** 1989;140(6):435–9 (Eng. Abstr.) **(Fre)**

[Antinuclear and anticytoplasmic antibodies in 24 cases of dermatomyositis. Value of western blotting] Meyer O, et al. **Ann Med Interne (Paris)** 1989;140(6):449–52 (Eng. Abstr.) **(Fre)**

[Wegener's disease. Current immunologic data and therapeutic implications] Boudes P, et al. **Presse Med** 1990 Mar 31;19(12):547–8 **(Fre)**

[Anticytoplasmic antibodies of polynuclears in the diagnosis and follow–up of Wegener's disease and other systemic vasculitis] Zenklusen C, et al. **Rev Rhum Mal Osteoartic** 1990 Jan;57(1):47–51 **(Fre)**

[Studies on anti–neutrophil cytoplasm antibody (ANCA) in Wegener's granulomatosis] Yoshida M, et al. **Nippon Naika Gakkai Zasshi** 1989 Nov;78(11):1581–5 **(Jpn)**

[Anti neutrophil cytoplasm antibody in Wegener's granulomatosis] Yoshida M, et al. **Ryumachi** 1990 Feb; 30(1):3–9 (Eng. Abstr.) **(Jpn)**

[Ultrastructural evaluation of carcinoembryonic antigen (CEA) using an immunocytochemical method with the peroxidase–antiperoxidase (PAP) complex technic in patients with laryngeal cancer] Grzanka A, et al. **Patol Pol** 1989;40(3):335–41 (Eng. Abstr.) **(Pol)**

METABOLISM

Lipopolysaccharide–containing cytoplasmic membranes as immunostimulators of the peritoneal macrophages. Ivanova E, et al. **Adv Exp Med Biol** 1990;256:407–12

Deficient elevation of the cytoplasmic calcium ion concentration by epinephrine in epinephrine–insensitive platelets of patients with myeloproliferative disorders. Ushikubi F, et al. **Am J Hematol** 1990 Feb;33(2):96–100

Endothelin increases cytoplasmic calcium and myosin phosphorylation in human myometrium. Word RA, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1103–8

Measurement of cytoplasmic calcium in single microvessels with increased permeability. He P, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1366–74

Heterogeneous response of cytoplasmic free Ca2+ in proximal convoluted and straight tubule cells in primary culture. Suzuki M, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):F724–31

Cell biology of intracellular protein trafficking. Schwartz AL. **Annu Rev Immunol** 1990;8:195–229 (178 ref.)

Cytoplasmic [Ca2+] in mammalian ventricle: dynamic control by cellular processes. Wier WG. **Annu Rev Physiol** 1990;52:467–85 (71 ref.)

Histamine formed in stimulated human platelets is cytoplasmic. Saxena SP, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):164–8

Glutamate–receptor–mediated regulation of the cytoplasmic free calcium level in cultured cerebellar granule cells. Courtney MJ, et al. **Biochem Soc Trans** 1990 Jun; 18(3):420–1

The relationship between cytoplasmic free Ca2+ and the

release of glutamate from synaptosomes. McMahon HT, et al. **Biochem Soc Trans** 1990 Jun;18(3):375–7 (19 ref.)

Early membrane potential and cytoplasmic calcium changes during mitogenic stimulation of WEHI 231 cell line by polyene antibiotics, lipopolysaccharide and anti–immunoglobulin. Henry–Toulmé N, et al. **Biochim Biophys Acta** 1990 Mar 9;1051(3):285–92

Regulation of cytoplasmic pH in resident and activated peritoneal macrophages. Swallow CJ, et al. **Biochim Biophys Acta** 1990 Feb 28;1022(2):203–10

On remaining cytoplasmic. Pugsley AP. **Biochimie** 1990 Feb–Mar;72(2–3):89–94 (35 ref.)

Tracer diffusion in F–actin and Ficoll mixtures. Toward a model for cytoplasm. Hou L, et al. **Biophys J** 1990 Jul; 58(1):31–43

PPACK–thrombin inhibits thrombin–induced platelet aggregation and cytoplasmic acidification but does not inhibit platelet shape change. Greco NJ, et al. **Blood** 1990 May 15;75(10):1989–90

Continuous fluorimetric assessment of the changes in cytoplasmic calcium concentration during exposure of rat isolated myocardium to conditions of simulated ischaemia. Northover BJ. **Br J Pharmacol** 1990 Jul;100(3):477–82

Cytoplasmic anchoring proteins and the control of nuclear localization. Hunt T. **Cell** 1989 Dec 22;59(6):949–51 (21 ref.)

Malignant cell autolysis caused by intracytoplasmic liberation of lysosomal enzymes. Martínez CM, et al. **Cell Biol Int Rep** 1990 Mar;14(3):255–66

Inhibition of Fura–2 sequestration and secretion with organic anion transport blockers. Di Virgilio F, et al. **Cell Calcium** 1990 Feb–Mar;11(2–3):57–62 (16 ref.)

Monoclonal antiparathyroid antibodies—tools for studies of the regulation of cytoplasmic calcium and function of parathyroid and other antibody–reactive cells. Gylfe E, et al. **Cell Calcium** 1990 May;11(5):329–32 (22 ref.)

Imaging cytoplasmic free calcium in histamine stimulated endothelial cells and in fMet–Leu–Phe stimulated neutrophils [published erratum appears in Cell Calcium 1990 May;11(5):following 384] Jacob R. **Cell Calcium** 1990 Feb–Mar;11(2–3):241–9

Signal transduction by the platelet–derived growth factor receptor involves association of the receptor with cytoplasmic molecules. Williams LT. **Clin Res** 1989 Oct; 37(4):564–8 (45 ref.)

Spectrin: a structural mediator between diverse plasma membrane proteins and the cytoplasm. Bennett V. **Curr Opin Cell Biol** 1990 Feb;2(1):51–6 (27 ref.)

Cytoplasmic microtubular motors. Gelfand VI. **Curr Opin Cell Biol** 1989 Feb;1(1):63–6 (21 ref.)

The mannose 6–phosphate receptor cytoplasmic domain is not sufficient to alter the cellular distribution of a chimeric EGF receptor. Dintzis SM, et al. **EMBO J** 1990 Jan; 9(1):77–84

Cytoplasmic domains determine signal specificity, cellular routing characteristics and influence ligand binding of epidermal growth factor and insulin receptors. Riedel H, et al. **EMBO J** 1989 Oct;8(10):2943–54

Tissue specificity of nucleo–cytoplasmic distribution of HMG1 and HMG2 proteins and their probable functions. Mosevitsky MI, et al. **Eur J Biochem** 1989 Nov 6; 185(2):303–10

Nucleocytoplasmic sorting of macromolecules following mitosis: fate of nuclear constituents after inhibition of pore complex function. Benavente R, et al. **Eur J Cell Biol** 1989 Oct;50(1):209–19

Distribution of intracellular free calcium in quiescent BALB/c 3T3 cells stimulated by platelet–derived growth factor. Tucker RW, et al. **Eur J Cell Biol** 1990 Feb; 51(1):120–7

Cytoplasmic Ca2+ oscillations evoked by acetylcholine or intracellular infusion of inositol trisphosphate or Ca2+ can be inhibited by internal Ca2+. Wakui M, et al. **FEBS Lett** 1990 Apr 24;263(2):206–8

Poly(A) addition during maturation of frog oocytes: distinct nuclear and cytoplasmic activities and regulation by the sequence UUUUUAU. Fox CA, et al. **Genes Dev** 1989 Dec; 3(12B):2151–62

Cytoplasmic activation of ISGF3, the positive regulator of interferon–alpha–stimulated transcription, reconstituted in vitro. Levy DE, et al. **Genes Dev** 1989 Sep;3(9):1362–71

"Alternative self–diploidization" or "ASD" homothallism in Saccharomyces cerevisiae: isolation of a mutant, nuclear–cytoplasmic interaction and endomitotic diploidization. Ono B, et al. **Genetics** 1990 Aug; 125(4):729–38

Localization of the heme–binding protein in the cytoplasm and of a heme–binding protein–like immunoreactive protein in the nucleus of rat liver parenchymal cells: immunocytochemical evidence of the subcellular distribution corroborated by radioimmunoassay and immunoblotting. Fahimi HD, et al. **Hepatology** 1990 May; 11(5):859–65

Cytoplasmic manifestation of the nuclear membrane's hormone binding capacity during cell division. Kovács P, et al. **Histochemistry** 1990;93(4):429–31

Cell calcium, oncogenes, and hypertrophy. Marban E, et al. **Hypertension** 1990 Jun;15(6 Pt 1):652–8 (67 ref.)

In vitro studies of interactions between frequent and unique mRNAs and cytoplasmic factors from brain tissue of several species of wild timber voles of northern Eurasia, Clethrionomys glareolus, Clethrionomys frater and Clethrionomys gapperi: a new criticism to a modern molecular–genetic concept of biological evolution. Kuznetsov DA. **Int J Neurosci** 1989 Nov;49(1–2):43–59

Autophosphorylation activates the soluble cytoplasmic domain of the insulin receptor in an intermolecular reaction. Cobb MH, et al. **J Biol Chem** 1989 Nov 5; 264(31):18701–6

Chelation of cytoplasmic Ca2+ increases plasma membrane permeability in murine macrophages. Picello E, et al. **J Biol Chem** 1990 Apr 5;265(10):5635–9

Dexamethasone negatively regulates phenobarbitone–activated transcription but synergistically enhances cytoplasmic levels of cytochrome P–450b/e messenger RNA. Rao MV, et al. **J Biol Chem** 1990 Apr 5;265(10):5617–22

Scrapie prion proteins accumulate in the cytoplasm of persistently infected cultured cells. Taraboulos A, et al. **J Cell Biol** 1990 Jun;110(6):2117–32

Regulation of the cytoplasmic accumulation of 5–methyltetrahydrofolate in MA104 cells is independent of folate receptor regulation. Kamen BA, et al. **J Clin Invest** 1989 Nov;84(5):1379–86

Localization of cytoplasmic collagen mRNA in human aortic coarctation: mRNA enhancement in high blood pressure–induced intimal and medial thickening. Jaeger E, et al. **J Histochem Cytochem** 1990 Sep;38(9):1365–75

Assembly, intracellular processing, and expression at the cell surface of the human alpha beta T cell receptor/CD3 complex. Function of the CD3–zeta chain. Geisler C, et al. **J Immunol** 1989 Dec 15;143(12):4069–77

Cytoplasmic acidification and activation of Na+/H+ exchange during regulatory volume decrease in Ehrlich ascites tumor cells. Livne A, et al. **J Membr Biol** 1990 Mar;114(2):153–7

Effect of cytoplasmic acidification on the membrane potential of T–lymphocytes: role of trace metals. Mason MJ, et al. **J Membr Biol** 1990 Jun;116(2):139–48

Estimation of free dopamine in the cytoplasm of the giant dopamine cell of Planorbis corneus by voltammetry and capillary electrophoresis. Chien JB, et al. **J Neurochem** 1990 Feb;54(2):633–8

Monoclonal antibody to brain cytoplasmic tetrodotoxin–sensitive protein detects an epitope associated with lymphocytes and involved in lymphocyte activation. Pinchuk LN, et al. **J Neuroimmunol** 1990 Apr;27(1):71–8

Desensitization to cytoplasmic Ca2+ and Ca2+ sensitivities of guinea–pig ileum and rabbit pulmonary artery smooth muscle. Himpens B, et al. **J Physiol (Lond)** 1989 Jun; 413:489–503

Control of coated–pit function by cytoplasmic pH. Sandvig K, et al. **Methods Cell Biol** 1989;32:365–82 (45 ref.)

The control of calcium influx by cytoplasmic calcium in mammalian heart muscle. Kirby MS, et al. **Mol Cell Biochem** 1989 Sep 7;89(2):109–13 (14 ref.)

Protein synthesis and processing in cytoplasmic microdomains beneath postsynaptic sites on CNS neurons. A mechanism for establishing and maintaining a mosaic postsynaptic receptive surface. Steward O, et al. **Mol Neurobiol** 1988 Winter;2(4):227–61 (71 ref.)

Endothelin–1 induced contraction of rat aorta: contributions made by Ca2+ influx and activation of contractile apparatus associated with no change in cytoplasmic Ca2+ level. Huang XN, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan–Feb; 341(1–2):80–7

Characterization of platelet cytoplasmic Ca2+ mobilization in patients with congenital cyclo–oxygenase deficiency and with defective platelet aggregation to A23187. Fuse I, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec;52(8):1522–33

Primary structure and developmental expression of a large cytoplasmic domain form of Xenopus laevis neural cell adhesion molecule (NCAM). Krieg PA, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10321–35

Distribution of cytoplasmic estrogen (ER) and progesterone (PgR) receptors in bovine genital tract. Re G, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:79–80

The nuclear–cytoplasmic [Ca2+] gradient in single mammalian vascular smooth muscle cells. Papageorgiou P, et al. **Proc Soc Exp Biol Med** 1990 Apr;193(4):331–4

Current trends in the study of intracellular protein degradation I. **Revis Biol Celular** 1989;20:1–273

Current trends in the study of intracellular protein degradation II. **Revis Biol Celular** 1989;21:283–521

Modulation of the macrophage respiratory burst by an acidic environment: the critical role of cytoplasmic pH regulation by proton extrusion pumps. Swallow CJ, et al. **Surgery** 1990 Aug;108(2):363–8; discussion 368–9

Cytoplasmic free calcium concentration in dark–adapted retinal rod outer segments. Korenbrot JI, et al. **Vision Res** 1989;29(8):939–48

[Increase of calcium ion level in the cytoplasm of indo 1–loaded HeLa cells under the action of histamine] Bochkov VN, et al. **Biull Eksp Biol Med** 1990 Jan; 109(1):40–2 (Eng. Abstr.) **(Rus)**

[Binding of monoclonal antibodies to cerebral cytoplasmic tetrodotoxin–sensitive protein to human lymphocytes] Pinchuk GV, et al. **Biull Eksp Biol Med** 1989 Aug; 108(8):174–7 (Eng. Abstr.) **(Rus)**

[Use of a microfluorometric method for measuring free calcium in the cytoplasm of isolated cultured rat cardiomyocytes] Belan PV, et al. **Fiziol Zh** 1989 Nov–Dec; 35(6):39–45 (Eng. Abstr.) **(Rus)**

[Effect of reduced extracellular level of sodium ions on the intracellular level of calcium ions in the cytoplasm of cultured rat cardiomyocytes] Verkhratskiĭ AN, et al. **Fiziol Zh** 1989 Nov–Dec;35(6):45–9 (Eng. Abstr.) **(Rus)**

[Distribution and biotransformation of labelled pantothenate in cytoplasmic and mitochondrial fractions of the rat liver with a deficiency of pantothenic acid] Reziapkin VI, et al. **Vopr Pitan** 1989 Sep–Oct;(5):50–3 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Role of intranuclear sacs, intrasaccate tubes, and cytoplasmic dense bodies in the structural completion of cytomegalovirus. Tumilowicz JJ, et al. **Intervirology** 1990; 31(1):14–22

Cytoplasmic components of natural killer cells limit the growth of Cryptococcus neoformans. Hidore MR, et al. **J Leukoc Biol** 1990 Jul;48(1):15–26

PATHOLOGY

A case of secondary cutaneous amyloidosis: epidermal keratinocytes produce amyloid in the cytoplasm. Aso M, et al. **J Cutan Pathol** 1990 Jun;17(3):176–81

PHYSIOLOGY

Cortical and cytoplasmic phases in amphibian eggs. Elinson RP. **Ann N Y Acad Sci** 1990;582:31–9 (32 ref.)

Activity of maturation promoting factor in pig oocytes after microinjection and serial transfer of maturing cytoplasm. Procházka R, et al. **Cell Differ Dev** 1989 Sep;27(3):175–81

Bibliography of the current world literature. Cytoplasm and cell motility. **Curr Opin Cell Biol** 1990 Feb;2(1):131–57

Cytoplasm and cell motility. **Curr Opin Cell Biol** 1989 Feb; 1(1):123–52

The role of the nucleocytoplasmic ratio in development regulation of the early mouse embryo. Evsikov SV, et al. **Development** 1990 Jun;109(2):323–8

Localization of vasa, a component of Drosophila polar granules, in maternal–effect mutants that alter embryonic anteroposterior polarity. Hay B, et al. **Development** 1990 Jun;109(2):425–33

Cytoplasmic inheritance in amoebae: modification of response to antiserum by micro–injection of heterologous cytoplasmic homogenates. Jeon KW, et al. **Exp Cell Res** 1967 Jun;46(3):615–9

Definition and properties of disequilibria within nuclear–mitochondrial–chloroplast and other nuclear–dicytoplasmic systems. Schnabel A, et al. **Genetics** 1989 Sep;123(1):199–215

Cytoplasmically inherited reproductive incompatibility in Tribolium flour beetles: the rate of spread and effect on population size. Stevens L, et al. **Genetics** 1990 Feb; 124(2):367–72

Genetics of inbred Drosophila melanogaster. XXII. Cytoplasmic influence on recombination. Lüning KG. **Hereditas** 1989;111(3):223–9

Developmental incompatibility between cell nucleus and cytoplasm as revealed by nuclear transplantation experiments in teleost of different families and orders. Yan SY, et al. **Int J Dev Biol** 1990 Jun;34(2):255–66

From signal to pseudopod. How cells control cytoplasmic actin assembly. Stossel TP. **J Biol Chem** 1989 Nov 5; 264(31):18261–4 (55 ref.)

Nuclear protein import in permeabilized mammalian cells requires soluble cytoplasmic factors. Adam SA, et al. **J Cell Biol** 1990 Sep;111(3):807–16

Cytoplasmic pH of Dictyostelium discoideum amebae during early development: identification of two cell subpopulations before the aggregation stage. Furukawa R, et al. **J Cell Biol** 1990 Jun;110(6):1947–54

Role of the human transferrin receptor cytoplasmic domain in endocytosis: localization of a specific signal sequence for internalization. Jing SQ, et al. **J Cell Biol** 1990 Feb; 110(2):283–94

Heterogeneity of the changes in cytoplasmic pH upon serum stimulation of quiescent fibroblasts. Bright GR, et al. **J Cell Physiol** 1989 Nov;141(2):410–9

Intracrine regulation at the nucleus—a further mechanism of growth factor activity? Logan A. **J Endocrinol** 1990 Jun;125(3):339–43 (31 ref.)

Cytoplasmic pH recovery in acid–loaded haemocytes of squid (Sepioteuthis lessoniana). Heming TA, et al. **J Exp Biol** 1990 Jan;148:385–94

Cytoplasmic aspects of oocyte growth and maturation in mammals. Motlík J. **J Reprod Fertil Suppl** 1989;38:17–25 (48 ref.)

[Cytoskeleton and translocation of cytoplasm in plant cells] Nagai R. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1733–41 **(Jpn)**

RADIATION EFFECTS

[The effect of the laser microirradiation of the cell center on neutrophil motility] Uzbekov RE, et al. **Tsitologiia** 1989 Aug;31(8):874–81 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

Nuclear and cytoplasmic transfer in mammalian embryos. McGrath J, et al. **Dev Biol (N Y 1985)** 1986;4:37–55 (59 ref.)

Ooplasmic transfusion: prophase germinal vesicle oocytes

made developmentally competent by microinjection of metaphase II egg cytoplasm. Flood JT, et al. **Fertil Steril** 1990 Jun;53(6):1049–54

ULTRASTRUCTURE

Cytoplasmic lipid bodies of human neutrophilic leukocytes. Weller PF, et al. **Am J Pathol** 1989 Nov;135(5):947–59

Light microscopical study of dendrites and perikarya of interneurones mediating Ia reciprocal inhibition of cat lumbar alpha–motoneurones. Rastad J, et al. **Anat Embryol (Berl)** 1990;181(4):381–8

Ultrastructural changes in hepatocyte cytoplasm in guinea pig liver in acute and protracted anaphylactic shock. Zapolska–Downar D. **Folia Morphol (Praha)** 1989; 37(4):431–4

Quantitative assessment of various fixatives on nuclear and cytoplasmic areas in oral cytology. Ogden GR, et al. **Histochem J** 1989 Dec;21(12):703–6

Maturation at high frequency of germinal–vesicle–stage mouse oocytes after cryopreservation: alterations in cytoplasmic, nuclear, nucleolar and chromosomal structure and organization associated with vitrification. Van Blerkom J. **Hum Reprod** 1989 Nov;4(8):883–98

Three–dimensional ultrastructural distribution of cytoplasmic interdigitation between endothelium and pericyte of capillary in human granulation tissue by serial section reconstruction method. Furusato M, et al. **J Electron Microsc (Tokyo)** 1990;39(2):86–91

Diffuse Lewy body disease in Japan. Kosaka K. **J Neurol** 1990 Jun;237(3):197–204 (61 ref.)

Phosphorylation–dependent inhibition by synapsin I of organelle movement in squid axoplasm. McGuinness TL, et al. **J Neurosci** 1989 Dec;9(12):4138–49

High molecular weight component of Mallory bodies detected by a monoclonal antibody. Zatloukal K, et al. **Lab Invest** 1990 Apr;62(4):427–34

Requirement for GTP hydrolysis in the formation of secretory vesicles. Tooze SA, et al. **Nature** 1990 Sep 13; 347(6289):207–8

The organization of cytoplasm at the presynaptic active zone of a central nervous system synapse. Landis DM, et al. **Neuron** 1988 May;1(3):201–9

Cytoskeletal reorganizations responsible for the phorbol ester–induced formation of cytoplasmic processes: possible involvement of intermediate filaments. Bershadsky AD, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1884–8

Intracytoplasmic crystalline inclusions in the hepatocytes of humans and chimpanzees. Schaff Z, et al. **Ultrastruct Pathol** 1990 Jul–Aug;14(4):303–9

[Morphofunctional characteristics of the striated centrosome rootlets of cultured embryonic pig kidney cells] Alieva IB, et al. **Tsitologiia** 1989 Sep;31(9):1016–9 (Eng. Abstr.) **(Rus)**

CYTOPLASMIC FILAMENTS see **CYTOSKELETON**

CYTOPLASMIC GRANULES

see related
CELL DEGRANULATION

Azurophilic granules in lymphomas immunoreactive for natural killer cell markers [letter; comment] Chan JK, et al. **Am J Clin Pathol** 1990 Jul;94(1):120 Comment on: Am J Clin Pathol 1990 Jan;93(1):124–32.

Immunolocalization of secretory protein–I or chromogranin A in amphibian urinary bladder granular cell granules. Davis WL, et al. **Cell Biol Int Rep** 1990 Jul;14(7):601–12

Isolation of physiologically responsive secretory granules from exocrine tissues. Hopfer U, et al. **Methods Enzymol** 1989;174:162–72 (20 ref.)

ANALYSIS

Localization of granular components in ADP– and/or teleocidin–stimulated human blood platelets as revealed by immunocytochemical methods. Kawakami H, et al. **Acta Haematol (Basel)** 1989;82(2):75–80

Phylogenetic considerations of neurosecretory granule contents: role of nucleotides and basic hormone/transmitter packaging mechanisms. Payne CM. **Arch Histol Cytol** 1989; 52 Suppl:277–92 (190 ref.)

Analysis of human neutrophil granule protein composition in chronic myeloid leukaemia by immuno–electron microscopy. Mutasa HC. **Cell Tissue Res** 1989 Oct; 258(1):111–7

Secretion of hepatic and intestinal alkaline phosphatases: similarities and differences. Alpers DH, et al. **Clin Chim Acta** 1990 Jan 15;186(2):211–23 (65 ref.)

A protein induced by NGF in PC12 cells is stored in secretory vesicles and released through the regulated pathway. Possenti R, et al. **EMBO J** 1989 Aug;8(8):2217–23

Studies on two major contaminating proteins of the cytoplasmic inclusion bodies in Escherichia coli. Veeraragavan K. **FEMS Microbiol Lett** 1989 Oct 1; 52(1–2):149–52

Secretory glycoproteins of the rat subcommissural organ are N–linked complex–type glycoproteins. Demonstration by combined use of lectins and specific glycosidases, and by the administration of Tunicamycin. Herrera H, et al. **Histochemistry** 1990;93(6):607–15

Secretory glycoconjugates of a mucin–synthesizing human colonic adenocarcinoma cell line. Analysis using double labeling with lectins. Phillips TE, et al. **Histochemistry** 1990;93(3):311–7

Internalization and recycling to serotonin–containing granules of the 80K integral membrane protein exposed on the surface of secreting rat basophilic leukaemia cells. Bonifacino JS, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):701–12

Identification of a highly mobilizable subset of human neutrophil intracellular vesicles that contains tetranectin and latent alkaline phosphatase. Borregaard N, et al. **J Clin Invest** 1990 Feb;85(2):408–16

Monocyte–chemotactic activity of defensins from human neutrophils. Territo MC, et al. **J Clin Invest** 1989 Dec; 84(6):2017–20

Chromogranins A and B are co–localized with atrial natriuretic peptides in secretory granules of rat heart. Steiner HJ, et al. **J Histochem Cytochem** 1990 Jun; 38(6):845–50

Purification and polypeptide composition of corpora amylacea from aged human brain. Steyaert A, et al. **J Neurosci Methods** 1990 Jan;31(1):59–64

Dementia with beta–amyloid deposition: involvement of alpha B–crystallin supports two main diseases [letter] Lowe J, et al. **Lancet** 1990 Aug 25;336(8713):515–6

Occurrence of hydrin 2 (vasotocinyl–Gly), a new hydroosmotic neurohypophyseal peptide, in secretory granules isolated from the frog (Rana esculenta) neurointermediate pituitary. Chauvet J, et al. **Neuroendocrinology** 1990 Feb;51(2):233–6

Changes within the basal nucleus in Parkinson's disease. Ulfig N, et al. **Prog Clin Biol Res** 1989;317:493–500 (16 ref.)

Electron microscopic analysis of the specific granule content of human atria. An investigation of the role of atrial pressure and atrial rhythm in the release of atrial natriuretic peptide. Doubell AF, et al. **S Afr Med J** 1990 Aug 18; 78(4):207–11

Protease nexin–II (amyloid beta–protein precursor): a platelet alpha–granule protein. Van Nostrand WE, et al. **Science** 1990 May 11;248(4956):745–8

DRUG EFFECTS

Effect of tumor necrosis factor on granule release and LTB4 production in adherent human polymorphonuclear leukocytes. Luedke ES, et al. **Agents Actions** 1989 Jun; 27(3–4):451–4

Effect of cytochalasin D on acinar cell structure and secretion in rat parotid salivary glands in vitro. Tojyo Y, et al. **Arch Oral Biol** 1989;34(11):847–55

Guanine nucleotides enhance Ca2(+)–driven protein storage granule secretion from electropermeabilized human platelets. Peltola K, et al. **Biochem Soc Trans** 1990 Jun; 18(3):466–7

Purification and characterization of an abundant cytosolic protein from human neutrophils that promotes Ca2(+)–dependent aggregation of isolated specific granules. Ernst JD, et al. **J Clin Invest** 1990 Apr; 85(4):1065–71

Intracellular application of guanosine–5'–O–(3–thiotriphosphate) induces exocytotic granule fusion in guinea pig eosinophils. Nüsse O, et al. **J Exp Med** 1990 Mar 1;171(3):775–86

In–vivo effect of prostaglandin F–2 alpha treatment on secretory granules in the corpus luteum of the late pregnant cow. Fields MJ, et al. **J Reprod Fertil Suppl** 1989;37:215–23

Effect of sulfhydryl reagents on pancreatic islet secretion granule–plasma membrane interaction. Cooperstein SJ, et al. **Pancreas** 1990 May;5(3):334–41

Effect of calpain II on turkey gizzard muscle and structural dissection of cytoplasmic dense bodies by low ionic strength extraction. Yamaguchi M, et al. **Prog Clin Biol Res** 1990;327:637–49

Time course of the quantitative changes in the autophagic–lysosomal and secretory granule compartments of murine liver cells under the influence of vinblastine. Réz G, et al. **Virchows Arch [B]** 1990;58(3):189–97

[Microspectrofluorometric analysis of the effect of centrophenoxine on lipofuscin granules of hybridoma (Retrovirus–transformed) cells] Tatariunas AB. **Biull Eksp Biol Med** 1990 Apr;109(4):345–8 (Eng. Abstr.) **(Rus)**

[Ultrastructural changes in the C–cells of the thyroid gland of albino rats after experimental administration of cadmium] Kozlovskaia AG, et al. **Gig Sanit** 1990 May;(5):41–3 **(Rus)**

ENZYMOLOGY

Characteristics of anion–stimulated Mg–ATPase from rat parotid gland secretory granules. Dowd FJ, et al. **Arch Oral Biol** 1989;34(3):167–76

Characterization of phospholipase A2 and acyltransferase activities in purified zymogen granule membranes. Rubin RP, et al. **Biochim Biophys Acta** 1990 Aug 6;1045(3):245–51

Immunocytochemical demonstration of quantitative differences in the distribution of lysozyme in human airway secretory granule phenotypes. Hinnrasky J, et al. **Biol Cell** 1990;68(3):239–43

Similar molecular requirements for antigen receptor–triggered secretion of interferon and granule enzymes by cytolytic T lymphocytes. Fortier AH, et al. **Cell Immunol** 1989 Nov;124(1):64–76

Uptake and utilization of human polymorphonuclear leukocyte granule myeloperoxidase by mouse peritoneal macrophages. Leung KP, et al. **Cell Tissue Res** 1989 Sep; 257(3):653–6

Subcellular distribution of acetylcholinesterase forms in chromaffin cells. Do chromaffin granules contain a specific secretory acetylcholinesterase? Bon S, et al. **Eur J Biochem** 1990 May 31;190(1):221–32

Localization of cAMP–dependent protein kinase subunits along the secretory pathway in pancreatic and parotid acinar cells and accumulation of the catalytic subunit in parotid secretory granules following beta–adrenergic stimulation. Joachim S, et al. **Eur J Cell Biol** 1990 Feb; 51(1):76–84

A lysophospholipase specific for exocrine pancreatic cells is stored in zymogen granules and secreted into pancreatic juice. Steinhilber W, et al. **Eur J Cell Biol** 1990 Apr; 51(2):242–51

Localization of lysosomal and digestive enzymes in cytoplasmic vacuoles in caerulein–pancreatitis. Willemer S, et al. **Histochemistry** 1990;94(2):161–70

Actions of the protease inhibitor phenylmethylsulfonyl fluoride on neutrophil granule enzyme secretion and superoxide production induced by fMet–Leu–Phe and phorbol 12–myristate–13–acetate. Gomez–Cambronero J, et al. **Int Arch Allergy Appl Immunol** 1989;89(4):362–8

Enzymes of phosphoinositide synthesis in secretory vesicles destined for the plasma membrane in Saccharomyces cerevisiae. Kinney AJ, et al. **J Bacteriol** 1990 Jul; 172(7):4115–7

Generation of Lys–gamma 3–melanotropin from pro–opiomelanocortin 1–77 by a bovine intermediate lobe secretory vesicle membrane–associated aspartic protease and purified pro–opiomelanocortin converting enzyme. Estivariz FE, et al. **J Biol Chem** 1989 Oct 25; 264(30):17796–801

Tyrosine hydroxylase in secretory granules from bovine adrenal medulla. Evidence for an integral membrane form. Kuhn DM, et al. **J Biol Chem** 1990 Apr 5;265(10):5780–6

Characterization of two azurphil granule proteases with active–site homology to neutrophil elastase. Wilde CG, et al. **J Biol Chem** 1990 Feb 5;265(4):2038–41

Developing Dictyostelium cells contain the lysosomal enzyme alpha–mannosidase in a secretory granule. Lenhard JM, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2761–9

A specific interaction in vitro between pancreatic zymogen granules and plasma membranes: stimulation by G–protein activators but not by Ca2+. Nadin CY, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2801–8

Regulatory subunits of cyclic AMP–dependent protein kinase: presence in granules and secretion by exocrine and endocrine cells. Hand AR, et al. **J Cell Sci** 1989 Aug;93 (Pt 4):675–81

Human neutrophil gelatinase is a component of specific granules. Hibbs MS, et al. **J Clin Invest** 1989 Nov; 84(5):1395–402

Elastase and cathepsin G of human monocytes: heterogeneity and subcellular localization to peroxidase–positive granules. Kargi HA, et al. **J Histochem Cytochem** 1990 Aug; 38(8):1179–86

Selective isocoumarin serine protease inhibitors block RNK–16 lymphocyte granule–mediated cytolysis. Hudig D, et al. **Mol Immunol** 1989 Aug;26(8):793–8

[Peptidylglycine alpha–amidating monooxygenase from bovine heart atrium secretory granules and adrenal chromaffin granules] Markosian KA, et al. **Biokhimiia** 1989 Dec;54(12):2046–53 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Platelet immunoglobulin G: its significance for the evaluation of thrombocytopenia and for understanding the origin of alpha–granule proteins. George JN. **Blood** 1990 Sep 1; 76(5):859–70 (174 ref.)

RNK granule extract cytolysis: differential inhibitor production by an NK–resistant vs an NK–sensitive murine lymphoma. Chow DA. **Cell Immunol** 1990 Apr 15; 127(1):172–86

Adrenal chromaffin granules and secretory granules from thyroid parafollicular cells have several common antigens. Weiler R, et al. **FEBS Lett** 1989 Nov 6;257(2):457–9

A monoclonal antibody reactive with a 15–kDa cytoplasmic granule–associated protein defines a subpopulation of CD8+ T lymphocytes. Anderson P, et al. **J Immunol** 1990 Jan 15;144(2):574–82

Prevention of relapses in Wegener's granulomatosis by treatment based on antineutrophil cytoplasmic antibody titre. Cohen Tervaert JW, et al. **Lancet** 1990 Sep 22; 336(8717):709–11

False–positive autoantibodies in HIV infection [letter] Davenport A, et al. **Lancet** 1990 Aug 4;336(8710):317–8

"False–positive" anti–neutrophil cytoplasmic antibodies in HIV infection [letter] Koderisch J, et al. **Lancet** 1990 May 19;335(8699):1227–8

Anti–neutrophil cytoplasmic antibodies and subglottic stenosis [letter] Ross CN, et al. **Lancet** 1990 May 19; 335(8699):1231–2

T–cell clones from a type–1 diabetes patient respond to insulin secretory granule proteins. Roep BO, et al. **Nature** 1990 Jun 14;345(6276):632–4

METABOLISM

Uptake of ascorbic acid by freshly isolated cells and secretory granules from the intermediate lobe of ox hypophyses.

Zhou A, et al. **Acta Physiol Scand** 1990 Feb;138(2):229–34
Inhibitory effect of adenine nucleotides and anti-allergic drugs on phosphorylation of phosphatidylinositol in rat mast cell granules. Kurosawa M, et al. **Allergy** 1989 Nov; 44(8):576–81
Regulated phosphorylation of secretory granule membrane proteins of the rat parotid gland. Marino CR, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G70–7
Sorting and secretory pathways in exocrine cells. Castle JD. **Am J Respir Cell Mol Biol** 1990 Feb;2(2):119–26 (59 ref.)
Direct cytotoxicity of polymorphonuclear leukocyte granule proteins to human lung-derived cells and endothelial cells. Okrent DG, et al. **Am Rev Respir Dis** 1990 Jan; 141(1):179–85
Fate of ATP in secretory granules: phosphohydrolase studies in pancreatic vascular bed. Böck P. **Arch Histol Cytol** 1989; 52 Suppl:85–90
Alpha-granule pool of glycoprotein IIb–IIIa in normal and pathologic platelets and megakaryocytes. Cramer EM, et al. **Blood** 1990 Mar 15;75(6):1220–7
Secretion of neutrophil secondary granules occurs during granulocyte–macrophage colony stimulating factor induced margination. Devereux S, et al. **Br J Haematol** 1990 Jan; 74(1):17–23
The origin and physiological relevance of alpha-granule adhesive proteins. Harrison P, et al. **Br J Haematol** 1990 Feb;74(2):125–30 (68 ref.)
Large dense cored vesicles are enriched in neuropeptide processing intermediates in the Aplysia bag cells. Kreiner T, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2–3):135–42
Distinct sets of SEC genes govern transport vesicle formation and fusion early in the secretory pathway. Kaiser CA, et al. **Cell** 1990 May 18;61(4):723–33
Cell-free protein sorting to the regulated and constitutive secretory pathways. Tooze SA, et al. **Cell** 1990 Mar 9; 60(5):837–47
Nerve-induced secretion of parotid acinar granules in cats. Emmelin N, et al. **Cell Tissue Res** 1989 Sep;257(3):549–54
Effects of expansion of blood volume and bilateral vagotomy on specific heart granules and release of atrial natriuretic peptide in the rat. Skepper JN, et al. **Cell Tissue Res** 1989 Oct;258(1):211–8
Chicken atrial natriuretic peptide (chANP) and its secretion. Toshimori H, et al. **Cell Tissue Res** 1990 Feb;259(2):293–8
Studies on renin release in vitro. Skøtt O. **Dan Med Bull** 1989 Sep;36(4):369–78 (127 ref.)
Expression of reg protein in rat regenerating islets and its co-localization with insulin in the beta cell secretory granules. Terazono K, et al. **Diabetologia** 1990 Apr; 33(4):250–2
Calcium release from pituitary secretory granules: modulation by thiols, disulfides, and dihydropyridine calcium channel blockers. Lorenson MY, et al. **Endocrinology** 1990 May;126(5):2671–8
Diazepam-insensitive [3H]Ro 15-4513 binding in intact cultured cerebellar granule cells. Malminiemi O, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):53–60
Prolactin crinophagy is induced in the estrogen-stimulated male rat pituitary. Kuriakose NR, et al. **Histochemistry** 1989;92(6):499–503
Granulopoiesis in tadpoles of Rana esculenta. Ultrastructural observations on the morphology and development of heterophil and basophil granules. Frank G. **J Anat** 1989 Apr;163:107–16
Specific heart granules and natriuretic peptide in the developing myocardium of fetal and neonatal rats and hamsters. Navaratnam V, et al. **J Anat** 1989 Apr;163:261–73
A novel metabolic form of the 32 kDa-D1 protein in the grana-localized reaction center of photosystem II. Callahan FE, et al. **J Biol Chem** 1990 Sep 15;265(26):15357–60
Presence of 5-hydroxytryptamine (serotonin) transport coupled with vacuolar-type H(+)-ATPase in neurosecretory granules from bovine posterior pituitary. Moriyama Y, et al. **J Biol Chem** 1990 Jun 5;265(16):9165–9
Sorting during transport to the surface of PC12 cells: divergence of synaptic vesicle and secretory granule proteins. Cutler DF, et al. **J Cell Biol** 1990 Mar; 110(3):721–30
Adhesomes: specific granules containing receptors for laminin, C3bi/fibrinogen, fibronectin, and vitronectin in human polymorphonuclear leukocytes and monocytes. Singer II, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):3169–82
Use of transgenic mice to study the routing of secretory proteins in intestinal epithelial cells: analysis of human growth hormone compartmentalization as a function of cell type and differentiation [published erratum appears in J Cell Biol 1990 Jan;110(1):following 227] Trahair JF, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3231–42
Biochemical characterization of the proteins of Paramecium secretory granules. Tindall SH, et al. **J Cell Sci** 1989 Mar; 92 (Pt 3):441–7
Co-localization of secretogranins/chromogranins with thyrotropin and luteinizing hormone in secretory granules of cow anterior pituitary. Bassetti M, et al. **J Histochem Cytochem** 1990 Sep;38(9):1353–63
Compartmentalization of low molecular mass GTP-binding proteins among neutrophil secretory granules. Dexter D, et al. **J Immunol** 1990 Sep 15;145(6):1845–50
Reassociation of cortical secretory vesicles with sea urchin egg plasma membrane: assessment of binding specificity. Jackson RC, et al. **J Membr Biol** 1990 Apr;115(1):83–93
Hyperosmolality inhibits exocytosis in sea urchin eggs by formation of a granule-free zone and arrest of pore widening. Merkle CJ, et al. **J Membr Biol** 1989 Dec; 112(3):223–32
Human platelet dense granules: improved isolation and preliminary characterization of [3H]-serotonin uptake and tetrabenazine-displaceable [3H]-ketanserin binding. Chatterjee D, et al. **Life Sci** 1990;46(24):1755–64
Ubiquitinated eosinophilic granules in the inferior olivary nucleus. Kato S, et al. **Neuropathol Appl Neurobiol** 1990 Apr;16(2):135–9
Dendrites of hypothalamic magnocellular neurons release neurohypophysial peptides by exocytosis. Pow DV, et al. **Neuroscience** 1989;32(2):435–9
Secretagogue and second messenger-activated Cl- permeabilities in isolated pancreatic zymogen granules. Fuller CM, et al. **Pflugers Arch** 1989 Oct;415(1):29–36
Depletion of dense granule nucleotides during storage of human platelets. de Korte D, et al. **Thromb Haemost** 1990 Apr 12;63(2):275–8
The effect of different agitation modes on platelet metabolism, thromboxane formation, and alpha-granular release during platelet storage. Wallvik J, et al. **Transfusion** 1990 Sep;30(7):639–43
Small mucus-granule-containing ciliated cells in the human gastric mucosa: a transitional form to metaplastic ciliated cells. Torikata C, et al. **Virchows Arch [A]** 1990; 417(1):37–41
[Granular biogenic amine-containing cells of the rat endometrium as components of the system of mononuclear phagocytes] Gunin AG, et al. **Arkh Anat Gistol Embriol** 1990 Jan;98(1):68–70 (Eng. Abstr.) **(Rus)**
[Functional state of blood platelets in arterial hypertension and the changes in serotonin-containing cellular granules] Mezhlumian AG, et al. **Kardiologiia** 1989 Sep;29(9):13–8 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Circular and branched Birbeck granules and cytomembrane blebbing in Langerhans' cells after dithranol irritation. Kanerva L. **Acta Derm Venereol (Stockh)** 1989;69(5):407–9
Cytoplasmic argyrophilic inclusions in neurons of pontine nuclei in patients with olivopontocerebellar atrophy: immunohistochemical and ultrastructural studies. Kato S, et al. **Acta Neuropathol (Berl)** 1990;79(6):584–94
A case of adult-onset dementia with argyrophilic grains. Itagaki S, et al. **Ann Neurol** 1989 Nov;26(5):685–9
The origin of the membrane convolute in degranulating platelets. A comparative study of normal and "gray" platelets. Morgenstern E, et al. **Blut** 1990 Jan;60(1):15–22
Morphometric analysis of Alzheimer's disease with Lewy bodies. Pollanen MS, et al. **Prog Clin Biol Res** 1989; 317:485–92

PHYSIOLOGY

Chloride transport across the membrane of parotid secretory granules. Gasser KW, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):C413–20
Temporal adaptation of human neutrophil metabolic responsiveness to the peptide formylmethionyl-leucyl phenylalanine: a comparison between human neutrophils and granule-depleted neutrophil cytoplasts. Dahlgren C. **Cell Biochem Funct** 1990 Jan;8(1):57–64
Proliferation of primordial germ cells of frogs stimulated by a fraction of granules derived from Rana nigromaculata embryos at the tail-bud stage. Shirane T. **Experientia** 1989 Dec 1;45(11–12):1140–2
The opsonizing ligand on Salmonella typhimurium influences incorporation of specific, but not azurophil, granule constituents into neutrophil phagosomes. Joiner KA, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2771–82
Growth factor-initiated proliferation of mouse embryonic fibroblasts induces cytotoxicity by natural killer cells and by a non-cytolysin cytotoxin in natural killer granules. Khalil N, et al. **J Immunol** 1990 Aug 15;145(4):1286–92
Cytoplasmic components of natural killer cells limit the growth of Cryptococcus neoformans. Hidore MR, et al. **J Leukoc Biol** 1990 Jul;48(1):15–26
Regulation of superoxide responses of human neutrophils by adenine compounds. Independence of requirement for cytoplasmic granules. Walker BA, et al. **Lab Invest** 1989 Nov;61(5):515–21
Cytoplasmic microtubules in human neutrophil degranulation: reversible inhibition by the colchicine analogue 2-methoxy-5-(2',3',4'-trimethoxyphenyl)-2,4,6-cycloheptatrien-1- one. Mollinedo F, et al. **Mol Pharmacol** 1989 Oct;36(4):547–55
Requirement for GTP hydrolysis in the formation of secretory vesicles. Tooze SA, et al. **Nature** 1990 Sep 13; 347(6289):207–8
The events leading to secretory granule fusion. Alvarez de Toledo G, et al. **Soc Gen Physiol Ser** 1988;43:333–44
[Changes in the pH of leukocyte granules during the storage of preserved donor blood] Shestova OLO, et al. **Gematol Transfuziol** 1989 Dec;34(12):28–32 (Eng. Abstr.) **(Rus)**

SECRETION

Alterations in in situ prolactin secretory granule morphology and immunoactivity by thiols and divalent cations. Greenan J, et al. **Endocrinology** 1990 Jan;126(1):512–8
Lymphotoxin induces secretion of granule proteins from adherent neutrophils: possible role of intracellular free calcium. Richter J. **J Leukoc Biol** 1990 Jun;47(6):506–13
[Secretion of human embryonic atrial specific granules (SG) in culture] Wang ZR. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Jun;19(2):139–40 (Eng. Abstr.) **(Chi)**
[Endocrine function of the heart: structuro-functional aspects] Akramova DKh, et al. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):5–14 (59 ref.) (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Differential size distribution of atrial dense granules in spontaneously hypertensive, Wistar-Kyoto and Wistar rats. Stein BA, et al. **Acta Anat (Basel)** 1990;137(4):331–5
The significance of paravacuolar granules of the thyroid. A histologic, cytologic and ultrastructural study. Sidawy MK, et al. **Acta Cytol** 1989 Nov–Dec;33(6):929–33
Surfactant-like lamellar bodies in the mucosa of the human nose. Svane-Knudsen V, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):307–13
Giant cytoplasmic granules in Langerhans cells of Chediak-Higashi syndrome. Carrillo-Farga J, et al. **Am J Dermatopathol** 1990 Feb;12(1):81–7
Combined staining of acidophilic inclusion bodies and lipofuscin granules. Ulfig N. **Anat Anz** 1990;171(1):35–8
Postnatal development of thyrotrophs in the rat anterior pituitary as studied by immunogold electron microscopy. Ozawa H, et al. **Anat Embryol (Berl)** 1989;180(2):207–12
Observations on pigment granules in the bones of silky fowls. Hirano S. **Arch Histol Cytol** 1990 Mar;53(1):89–93
Ultrastructural morphology of secretory granules in pleomorphic adenoma of human parotid and submandibular salivary glands. Harrison JD, et al. **Arch Oral Biol** 1989; 34(9):759–61
Elastic behavior of zymogen granule membranes in response to changes in pH and pCa. Miyamoto S, et al. **Biophys J** 1990 Mar;57(3):615–9
Morphometry of human leukocyte granules. Schmid-Schönbein GW, et al. **Biorheology** 1989; 26(2):331–43
The isolation and partial characterization of bovine parathyroid secretory granules. Bajpai S, et al. **Bone Miner** 1990 Apr;9(1):9–22
Biological and clinical features of acute lymphoblastic leukaemia with cytoplasmic granules or inclusions: description of eight cases. Cantù-Rajnoldi A, et al. **Br J Haematol** 1989 Nov;73(3):309–14
Tyrosine hydroxylase immunoreactivity in a subpopulation of granule cells in the olfactory bulb of teleost fish. Alonso JR, et al. **Brain Behav Evol** 1989;34(5):318–24
Distribution of acetylcholinesterase in the granular layer of the cerebellum of the rhesus monkey (Macaca mulatta). Robertson LT, et al. **Brain Behav Evol** 1989;34(6):342–50
Rapid refilling of neurosecretory terminals with secretory granules after an acute stimulus to the isolated neural lobe of the rat. Barnes PR, et al. **Cell Tissue Res** 1990 Apr; 260(1):211–3
Qualitative and quantitative analysis of granules in atrial appendage cardiocytes in different physiological states. Gall JA, et al. **Cell Tissue Res** 1990 Mar;259(3):529–34
Ultrastructural and immunocytochemical studies on the cytoskeleton in the anterior pituitary of rats, with special regard to the relationship between actin filaments and secretory granules. Senda T, et al. **Cell Tissue Res** 1989 Oct;258(1):25–30
Malignant intracerebral granular cell tumor reacts positively with anti-alpha-1-antichymotrypsin and the MB2 antibody: a clue to the histogenesis of the brain granular cell? Claassen U, et al. **Clin Neuropathol** 1990 Mar–Apr; 9(2):82–8
Precocious loss of cortical granules during mouse oocyte meiotic maturation and correlation with an egg-induced modification of the zona pellucida. Ducibella T, et al. **Dev Biol** 1990 Jan;137(1):46–55
Localization of neonatal secretory proteins in different cell types of the rat submandibular gland from embryogenesis to adulthood. Moreira JE, et al. **Dev Biol** 1990 Jun; 139(2):370–82
Cytoplasmic accumulations in rat primary brain cell cultures following treatment with E-64, a thiol protease inhibitor. Matsui K, et al. **Dev Neurosci** 1990;12(2):133–9
Ultrastructural alterations in submaxillary acinar cells following isoproterenol administration: a new form of secretion granule. Kanda T, et al. **Exp Mol Pathol** 1968 Oct;9(2):189–96
Secretory differentiation of human fetal bronchial epithelial cells in culture. A study by histochemistry and electron microscopy. Brockmeyer C, et al. **Exp Pathol** 1990; 39(1):11–7
Formation and exocytosis of secretory granules in the endocrine cells of normal and transplanted pancreas: an electromicroscopic study. Adeghate E, et al. **Gegenbaurs Morphol Jahrb** 1989;135(5):697–704
Characterization of a phenotypically and functionally distinct subset of large granular lymphocytes (pit cells) in rat liver sinusoids. Vanderkerken K, et al. **Hepatology** 1990 Jul; 12(1):70–5
Patch-clamp measurements reveal multimodal distribution of granule sizes in rat mast cells. Alvarez de Toledo G, et al. **J Cell Biol** 1990 Apr;110(4):1033–9

Association of a basic 25K protein with membrane coating granules of human epidermis. O'Guin WM, et al. **J Cell Biol** 1989 Nov;109(5):2313–21

A filamentous network surrounding secretory granules from mast cells. Nielsen EH. **J Cell Sci** 1990 May;96 (Pt 1):43–6

The origin and fate of Merkel cell granules—an ultrastructural study. Nindl M, et al. **J Dermatol** 1990 Apr; 17(4):218–25

Morphological and quantitative aspects of the development of cytoplasmic granules in concanavalin A–stimulated normal human lymphocytes. McGirl A, et al. **J Leukoc Biol** 1990 Jun;47(6):514–8

Evidence for morphologic diversity of human mast cells. An ultrastructural study of mast cells from multiple body sites. Weidner N, et al. **Lab Invest** 1990 Jul;63(1):63–72

Development of cortical vesicles in Sicyonia ingentis ova: their heterogeneity and role in elaboration of the hatching envelope. Pillai MC, et al. **Mol Reprod Dev** 1990 May; 26(1):78–89

Liberation of eosinophil granules in the inner capsule of chronic subdural hematomas. Yamashima T, et al. **Neurochirurgia (Stuttg)** 1989 Nov;32(6):168–71

Degranulation of human mast cells induces an endothelial antigen central to leukocyte adhesion. Klein LM, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8972–6

The human gingival indeterminate cell revisited. Warfvinge K. **Scand J Dent Res** 1989 Dec;97(6):488–93

Alveolar soft part sarcoma: an electron microscopic study especially of uncrystallized granules using a tannic acid–containing fixative. Mukai M, et al. **Ultrastruct Pathol** 1990 Jan–Feb;14(1):41–50

Altered serous granules in acinar cells of a human parotid gland. Tandler B, et al. **Ultrastruct Pathol** 1990 Jan–Feb; 14(1):11–9

Collagen secretion granules in reactive stromal myofibroblasts, with preliminary observations on their occurrence in spindle cell tumours [published erratum appears in Virchows Arch [A] 1990;416(3):280] Eyden BP. **Virchows Arch [A]** 1989;415(5):437–45

[Electron microscopic study of mucus secretion in gastric carcinoma and its pathologic significance] Liang P. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):175–7 (Eng. Abstr.) **(Chi)**

[Keratoses with granular degeneration and their relations to each other. I. Epidermolytic hyperkeratosis (erythrodermia congenitalis ichthyosiformis bullosa)] Hadlich J, et al. **Dermatol Monatsschr** 1989;175(7):409–17 (0 ref.) (Eng. Abstr.) **(Ger)**

[Keratoses with granular degeneration and their relations to each other. II. Heterophenotypic expression of hyperkeratosis (erythrodermia congenitalis ichthyosiformis bullosa), naevus hystricoides and Vörner keratosis palmoplantaris cum degeneratione granulosa] Hadlich J, et al. **Dermatol Monatsschr** 1989;175(7):418–24 (37 ref.) (Eng. Abstr.) **(Ger)**

[A case of polymyalgia rheumatica with cytoplasmic bodies] Ono S, et al. **Rinsho Shinkeigaku** 1989 Oct;29(10):1298–301 (Eng. Abstr.) **(Jpn)**

[Morphofunctional state of the stomach in rats with hyposalivation] Sukhodolo IV, et al. **Fiziol Zh** 1990 Mar–Apr;36(2):51–5 (Eng. Abstr.) **(Rus)**

[The hypothalamo-hypophyseal neurosecretory system of rats with altitude hypoxia] Iangalycheva EA. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):54–62 (Eng. Abstr.) **(Rus)**

CYTOPLASMIC POLYHEDROSIS VIRUSES see **POLYHEDROSIS VIRUSES**

CYTOPLASMIC STREAMING

PHYSIOLOGY

Myosin II heavy chain null mutant of Dictyostelium exhibits defective intracellular particle movement. Wessels D, et al. **J Cell Biol** 1990 Sep;111(3):1137–48

CYTOSINE

Static deformation densities for cytosine and adenine. Eisenstein M. **Acta Crystallogr B** 1988 Aug 1;44 (Pt 4):412–26

Prominent stacking interaction with aromatic amino acid by N-quarternization of nucleic acid base: X-ray crystallographic characteristics and biological implications. Ishida T, et al. **Arch Biochem Biophys** 1990 Apr; 278(1):217–27

Characterization of the high pH wobble structure of the 2-aminopurine.cytosine mismatch by N-15 NMR spectroscopy. Sowers LC, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):89–92

O6-ethylguanine carcinogenic lesions in DNA: an NMR study of O6etG.C pairing in dodecanucleotide duplexes. Kalnik MW, et al. **Biochemistry** 1989 Jul 25;28(15):6182–92

Thermodynamics of some nucleic acid bases and nucleosides in water, and their transfer to aqueous glucose and sucrose solutions at 298.15 K. Kishore N, et al. **Biophys Chem** 1989 Jul;33(3):227–36

The GC-selective ligand mithramycin alters the structure of (AT)n sequences flanking its binding sites. Cons BM, et al. **FEBS Lett** 1990 May 7;264(1):100–4

Inhibition of transcription of cytosine-containing DNA in vitro by the alc gene product of bacteriophage T4. Drivdahl RH, et al. **J Bacteriol** 1990 May;172(5):2716–27

Specific A/G-to-C.G mismatch repair in Salmonella typhimurium LT2 requires the mutB gene product. Lu AL, et al. **J Bacteriol** 1990 Mar;172(3):1232–40

Hairpin formation of d(CGCG-TA-CGCG), d(CGCG-TG-CGCG) and their cytosine methylated analogs. Chen FM. **J Biomol Struct Dyn** 1989 Jun; 6(6):1239–57

Studies on anticodon–anticodon interactions: hemi-protonation of cytosines induces self-pairing through the GCC anticodon of E. coli tRNA-Gly. Romby P, et al. **J Biomol Struct Dyn** 1986 Oct;4(2):193–203

The abasic site as a challenge to DNA polymerase. A nuclear magnetic resonance study of G, C and T opposite a model abasic site. Cuniasse P, et al. **J Mol Biol** 1990 May 20; 213(2):303–14

Modification of cytosine residues on DNA. Viscidi RP. **Methods Enzymol** 1990;184:600–7

Hydrolysis of N3-methyl-2'-deoxycytidine: model compound for reactivity of protonated cytosine residues in DNA. Sowers LC, et al. **Mutat Res** 1989 Nov; 215(1):131–8

Role of the extra G–C pair at the end of the acceptor stem of tRNA(His) in aminoacylation. Himeno H, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7855–63

Role of GC-biased mutation pressure on synonymous codon choice in Micrococcus luteus, a bacterium with a high genomic GC-content. Ohama T, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1565–9

Functional analysis of GC element binding and transcription in the hamster dihydrofolate reductase gene promoter. Swick AG, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):9291–304

Cloning and sequencing the cytosine methyltransferase gene M. CviJI from Chlorella virus IL-3A. Shields SL, et al. **Virology** 1990 May;176(1):16–24

ANALOGS & DERIVATIVES

Structure of a modified cytosine: an antiviral nucleoside analog, homo-Ara-C. Biswas G, et al. **Acta Crystallogr C** 1988 Jul 15;44 (Pt 7):1269–72

Activity of (S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine (HPMPC) against guinea pig cytomegalovirus infection in cultured cells and in guinea pigs. Li SB, et al. **Antiviral Res** 1990 May;13(5):237–52

Selective deuteration of 4-N-methylcytosines. Spychala J, et al. **Biochem Biophys Res Commun** 1990 Jun 15; 169(2):517–23

Effects of sodium butyrate and 5-azacytidine on DNA methylation in human tumor cell lines: variable response to drug treatment and withdrawal. Cosgrove DE, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):80–6

The calculated free energy effects of 5-methyl cytosine on the B to Z transition in DNA. Pearlman DA, et al. **Biopolymers** 1990 Jul–Aug 5;29(8–9):1193–209

Detection of 5-methylcytosine removal from DNA of Friend erythroleukemia cells following exposure to several differentiating agents. Kuykendall JR, et al. **Cancer Lett** 1989 Sep 15;47(1–2):149–52

Protection from carcinogen-induced murine bladder carcinoma by interferons and an oral interferon-inducing pyrimidinone, bropirimine. Borden EC, et al. **Cancer Res** 1990 Feb 15;50(4):1071–4

Hypomethylation of DNA in the regulation of gene expression. Chandler LA, et al. **Dev Biol (N Y 1985)** 1988; 5:335–49 (76 ref.)

Effect of 5-bromo- and 5-methyldeoxycytosine on duplex stability and discrimination of the NotI octadeoxynucleotide. Quantitative measurements using thin-layer chromatography. Hoheisel JD, et al. **J Biol Chem** 1990 Sep 25;265(27):16656–60

Combination immunotherapy of murine transitional cell cancer using BCG and an interferon-inducing pyrimidinone. Sarosdy MF, et al. **J Urol** 1989 Nov; 142(5):1376–9

Effect of prolactin on DNA methylation in the liver and kidney of rat. Reddy PM, et al. **Mol Cell Biochem** 1990 Jun 1;95(1):43–7

Spontaneous deamination of cytosine and 5-methylcytosine residues in DNA and replacement of 5-methylcytosine residues with cytosine residues. Ehrlich M, et al. **Mutat Res** 1990 May;238(3):277–86 (55 ref.)

Age-related methylation changes in DNA may reflect the proliferative potential of organs. Hoal-van Helden EG, et al. **Mutat Res** 1989 Sep-Nov;219(5–6):263–6

Phylogenetic evidence of a role for 5-hydroxymethyluracil-DNA glycosylase in the maintenance of 5-methylcytosine in DNA. Boorstein RJ, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7653–61

Analysis of substrate specificity of the PaeR7 endonuclease: effect of base methylation on the kinetics of cleavage. Ghosh SS, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5063–8

Synthesis and duplex stability of oligonucleotides containing cytosine-thymine analogues. Lin PK, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10373–83

Cleavage of DNA by HaeII is inhibited by the presence of 5-methylcytosine at the second cytosine within the recognition sequence. Piekarowicz A, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10132

Modification of 5-methylcytosine in DNA and its relation to mutagenesis. Negishi K, et al. **Nucleic Acids Symp Ser** 1989;(21):111–2

5-Azacytidine-induced reactivation of the human X chromosome-linked PGK1 gene is associated with a large region of cytosine demethylation in the 5' CpG island. Hansen RS, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(11):4174–8

5-Methylcytosine as an endogenous mutagen in the human LDL receptor and p53 genes. Rideout WM 3d, et al. **Science** 1990 Sep 14;249(4974):1288–90

Variability in the developmental toxicity of bropirimine with the day of administration. Marks TA, et al. **Teratology** 1990 Jul;42(1):55–66

[Effect of nucleotides on N-methylcytisine and dimethyltubocurarine binding by the nicotinic acetylcholine receptors of the optic ganglia in the squid B. magister] Pliashkevich IuG, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):706–9 (Eng. Abstr.) **(Rus)**

[Possible origin and evolution of enzymatic methylation of eukaryotic DNA. Methylation of cytosine residues in 3 palindromic families: RYRY, YYRR, and YYRYRR] Mazin AL, et al. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):23–43 (Eng. Abstr.) **(Rus)**

ANALYSIS

Measurement of deoxyguanosine/thymidine ratios in complex mixtures by high-performance liquid chromatography for determination of the mole percentage guanine + cytosine of DNA. Mesbah M, et al. **J Chromatogr** 1989 Oct 6; 479(2):297–306

Determination of guanine-plus-cytosine content of bacterial DNA by dual-laser flow cytometry. Sanders CA, et al. **J Gen Microbiol** 1990 Feb;136 (Pt 2):359–65

Improving poor in vitro transcription from G,C-rich genes. Ben Aziz R, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3418

GC-rich murine adenosine deaminase gene promoter supports diverse tissue-specific gene expression. Rauth S, et al. **Somat Cell Mol Genet** 1990 Mar;16(2):129–41

[Determination of guanine and cytosine contents of Trichophyton rubrum nuclear DNA with the thermal denaturation technique] Teng CY, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):313–6 (Eng. Abstr.) **(Chi)**

METABOLISM

DNA cytosine methylation in brain of patients with Alzheimer's disease. Schwob NG, et al. **Ann Neurol** 1990 Jul;28(1):91–4

Pyrimidine ribonucleoside catabolism in Pseudomonas fluorescens biotype A. Chu CP, et al. **Antonie Van Leeuwenhoek** 1990 May;57(4):253–7

A sensitive genetic assay for the detection of cytosine deamination: determination of rate constants and the activation energy. Frederico LA, et al. **Biochemistry** 1990 Mar 13;29(10):2532–7

Hydroxyl radical induced cross-linking of cytosine and tyrosine in nucleohistone. Gajewski E, et al. **Biochemistry** 1990 Jan 30;29(4):977–80

How does the cell count the number of ectopic copies of a gene in the premeiotic inactivation process acting in Ascobolus immersus? Faugeron G, et al. **Genetics** 1990 Mar;124(3):585–91

Cytosine methylation enhances Z-DNA formation in vivo. Zacharias W, et al. **J Bacteriol** 1990 Jun;172(6):3278–83

A human endonuclease incises ultraviolet-irradiated DNA at cytosines and oxidized DNA at thymines. Gallagher PE, et al. **Mol Carcinog** 1989;2(4):188–91

Spontaneous deamination of cytosine and 5-methylcytosine residues in DNA and replacement of 5-methylcytosine residues with cytosine residues. Ehrlich M, et al. **Mutat Res** 1990 May;238(3):277–86 (55 ref.)

Cytosine methylation in CTF and Sp1 recognition sites of an HSV tk promoter: effects on transcription in vivo and on factor binding in vitro. Ben-Hattar J, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10179–90

Excision of cytosine hydrates from Z-DNA. Duker NJ, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2007–10

Restriction enzyme SnaBI is sensitive to methylation of cytosine within its recognition sequence. Yang Y, et al. **Nucleic Acids Res** 1990 May 25;18(10):3083

RADIATION EFFECTS

Ultraviolet difference spectral studies in the gamma radiolysis of DNA and model compounds. I. Aqueous solutions of DNA bases. Trumbore CN, et al. **Int J Radiat Biol** 1989 Dec;56(6):923–41

CYTOSINE ARABINOSIDE see **CYTARABINE**

CYTOSINE NUCLEOTIDES

Prominent stacking interaction with aromatic amino acid by N-quarternization of nucleic acid base: X-ray crystallographic characteristics and biological implications. Ishida T, et al. **Arch Biochem Biophys** 1990 Apr; 278(1):217–27

Detection of (3'-hydroxy)-3,N4-benzetheno-2'-deoxycytidine-3'-

phosphate by 32P-postlabeling of DNA reacted with p-benzoquinone. Pongracz K, et al. **Carcinogenesis** 1990 Sep;11(9):1469–72

Free-radical reactions induced by OH-radical attack on cytosine-related compounds: a study by a method combining ESR, spin trapping and HPLC. Hiraoka W, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1217–23

Stacking interactions between protonated nucleic acid bases and aromatic amino acids: spectroscopic and structural analyses of m3CMP–tryptophan derivative complex. Ueda H, et al. **Nucleic Acids Symp Ser** 1989;(21):59–60

ADMINISTRATION & DOSAGE

[Experimental combination chemotherapy of YNK01, a novel analog of cytarabine, with other antitumor agents] Uchida T, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1351–6 (Eng. Abstr.) **(Jpn)**

ANALYSIS

UTP/CTP ratio, an important regulatory parameter for ATCase expression. O'Donovan GA, et al. **Arch Microbiol** 1989;153(1):19–25

BIOSYNTHESIS

Investigation of the mechanism of CTP synthetase using rapid quench and isotope partitioning methods. Lewis DA, et al. **Biochemistry** 1989 Oct 17;28(21):8454–9

ISOLATION & PURIFICATION

Cytidylate cyclase: development of assay and determination of kinetic properties of a cytidine 3',5'-cyclic monophosphate-synthesizing enzyme. Newton RP, et al. **Biochem J** 1990 Jan 15;265(2):581–6

METABOLISM

Participation of the peroxisomal beta-oxidation system in the chain-shortening of PCA16, a metabolite of the cytosine arabinoside prodrug, YNKO1, in rat liver. Yoshida Y, et al. **Biochem Pharmacol** 1990 May 15;39(10):1505–12

Lysine-60 in the regulatory chain of Escherichia coli aspartate transcarbamoylase is important for the discrimination between CTP and ATP. Zhang Y, et al. **Biochemistry** 1989 Sep 5;28(18):7313–8

Cytidylate cyclase activity in mouse tissues: the enzymatic conversion of cytidine 5'-triphosphate to cytidine 3',5'-cyclic monophosphate (cyclic CMP). Yamamoto I, et al. **Biochim Biophys Acta** 1989 Dec 8;993(2–3):191–8

Effect of sediment contact and uptake mechanisms on accumulation of three chlorinated hydrocarbons in the midge, Chironomus riparius. Fry DM, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):790–7

Method for the determination of the specific activities of UTP and CTP in mouse kidney by high-performance liquid chromatography. Elliger SS, et al. **J Chromatogr** 1989 Oct 27;495:249–55

Dolichol phosphorylation occurs via a CTP-dependent reaction in Artemia larvae. Horst MN. **J Exp Zool** 1989 Oct;252(1):16–24

Modification of the biosynthesis and composition of polyglycerophosphatides in outer and inner mitochondrial membranes by cytidine liponucleotides. Stuhne-Sekalec L, et al. **Membr Biochem** 1989;8(3):165–75

Increased methylation of chloroform extractable products and CTP: cholinephosphate cytidylyltransferase in brain membrane preparations from triethyltin-intoxicated rats. Mages F, et al. **Pharmacol Toxicol** 1989 Oct;65(4):302–5

PHARMACOLOGY

On the inhibition of deoxycytidylate hydroxymethylase by 5-fluoro-2'-deoxycytidine 5'-monophosphate. Subramaniam R, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):11–5

A comparison of the anticonvulsant effects of competitive and non-competitive antagonists of the N-methyl-D-aspartate receptor. Nevins ME, et al. **Brain Res** 1989 Nov 27;503(1):1–4

Inhibition of DNA synthesis of adult rat hepatocytes in primary culture by dibutyrylcytidine 3', 5'-cyclic monophosphate. Kubin T, et al. **Cell Biol Int Rep** 1989 Nov;13(11):907–17

Dibutyrylcytidine 3',5'-cyclic monophosphate stimulates neurite outgrowth in rat pheochromocytoma PC12. Yanagida M, et al. **Neurosci Lett** 1990 Jul 13;114(3):323–8

[Antitumor activity of a novel analog of cytarabine, 4-amino-1-beta-D-arabinofuranosyl-2(1H)-pyrimidinone 5'-(sodium octadecyl phosphate) monohydrate (YNK01)] Nagahata T, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 1):1437–45 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Antitumor activity and pharmacology of 1-beta-D-arabinofuranosylcytosine-5'-stearylphosphate: an orally active derivative of 1-beta-D-arabinofuranosylcytosine [published erratum appears in Jpn J Cancer Res 1990 May;81(5):544] Kodama K, et al. **Jpn J Cancer Res** 1989 Jul;80(7):679–85

CYTOSKELETAL FILAMENTS see **CYTOSKELETON**

CYTOSKELETAL PROTEINS

[Ca2+-dependent phosphorylation of cytoskeleton proteins and its pharmacological control] Hidaka H, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1584–9 **(Jpn)**

[Protein phosphorylations during cell cycle] Inagaki M, et al. **Tanpakushitsu Kakusan Koso** 1989 Jul;34(9):1215–26 **(Jpn)**

ANALYSIS

Immunohistochemical localization of desmosomal and cytoskeletal proteins in the epidermis of healthy individuals and patients with Hailey-Hailey's disease. Inohara S, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):239–41

Immunofluorescence localization of vinculin in ectoplasmic ("junctional") specializations of rat Sertoli cells. Grove BD, et al. **Am J Anat** 1990 May;188(1):44–56

Cytoskeletal reorganization induced by nerve growth factor and glia maturation factor in anaplastic glioma cells. Marushige Y, et al. **Anticancer Res** 1989 Jul-Aug; 9(4):1143–8

Immunohistochemical study of uterine stromal sarcoma and rhabdomyosarcoma. Dabbs DJ, et al. **Arch Pathol Lab Med** 1989 Oct;113(10):1151–4

Lipids noncovalently associated with keratins and other cytoskeletal proteins of mouse mammary epithelial cells in primary culture. Asch HL, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):303–8

Expression of cytoskeletal proteins in glial cells of dorsal root ganglia. Vega JA, et al. **Cell Mol Biol** 1989; 35(6):635–41

Purification and characterization of an 85 kDa talin-binding fragment of vinculin. Groesch ME, et al. **Cell Motil Cytoskeleton** 1990;15(1):41–50

Vinculin. Otto JJ. **Cell Motil Cytoskeleton** 1990;16(1):1–6 (59 ref.)

The Mr 115 kd fiber cell-specific protein is a component of the lens cytoskeleton. FitzGerald PG, et al. **Curr Eye Res** 1989 Aug;8(8):801–11

Talin and vinculin in the oocytes, eggs, and early embryos of Xenopus laevis: a developmentally regulated change in distribution. Evans JP, et al. **Dev Biol** 1990 Feb; 137(2):403–13

Spatial and temporal distribution of vinculin and talin in migrating avian neural crest cells and their derivatives. Duband JL, et al. **Development** 1990 Mar;108(3):421–33

Phenotypic comparison between mesothelial and microvascular endothelial cell lineages using conventional endothelial cell markers, cytoskeletal protein markers and in vitro assays of angiogenic potential. Chung-Welch N, et al. **Differentiation** 1989 Oct;42(1):44–53

Colocalization of vinculin-containing adhesion plaques, microfilaments and cytokeratin filaments in cytochalasin-treated PtK1 cells. Roscioli NA, et al. **Eur J Cell Biol** 1989 Dec;50(2):522–4

Identification and localization of talin in chick retinal pigment epithelial cells. Philp NJ, et al. **Exp Eye Res** 1990 Aug; 51(2):191–8

Early fetal acquisition of the chromaffin and neuronal immunophenotype by human adrenal medullary cells. An immunohistological study using monoclonal antibodies to chromogranin A, synaptophysin, tyrosine hydroxylase, and neuronal cytoskeletal proteins. Molenaar WM, et al. **Exp Neurol** 1990 Apr;108(1):1–9

Cytoskeletal properties of alveolar soft part sarcoma. Hirose T, et al. **Hum Pathol** 1990 Feb;21(2):204–11

Immunocytochemistry of cytoskeletal proteins in adult Schistosoma mansoni. MacGregor AN, et al. **Int J Parasitol** 1990 May;20(3):279–84

Membrane domains of intestinal epithelial cells: distribution of Na+,K+-ATPase and the membrane skeleton in adult rat intestine during fetal development and after epithelial isolation. Amerongen HM, et al. **J Cell Biol** 1989 Nov; 109(5):2129–38

Intestinal crypt stem cells possess high levels of cytoskeletal-associated phosphotyrosine-containing proteins and tyrosine kinase activity relative to differentiated enterocytes. Burgess DR, et al. **J Cell Biol** 1989 Nov;109(5):2139–44

A new high molecular mass protein showing unique localization in desmosomal plaque. Hieda Y, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1511–8

Ultrastructural localization of giardins to the edges of disk microribbons of Giarida lamblia and the nucleotide and deduced protein sequence of alpha giardin. Peattie DA, et al. **J Cell Biol** 1989 Nov;109(5):2323–35

The relationship between talin and acetylcholine receptor clusters in Xenopus muscle cells. Rochlin MW, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):461–72

Ezrin immunoreactivity in neuron subpopulations: cellular distribution in relation to cytoskeletal proteins in sensory neurons. Everett AW, et al. **J Histochem Cytochem** 1990 Aug;38(8):1137–44

Plasma membrane and cytoskeletal constituents in Leishmania mexicana. Dagger F, et al. **Mol Biol Rep** 1988–89;13(4):197–206

Immunolocalization in three dimensions: immunogold staining of cytoskeletal and nuclear matrix proteins in resinless electron microscopy sections. Nickerson JA, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2259–63

[Neuronal cytoskeleton: molecular architecture, function and dynamics] Hirokawa N. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):480–507 **(Jpn)**

[Immunohistocytochemical determination of surface membrane antigens and cytoskeletal proteins in pleural exudates] Abramenko IV, et al. **Lab Delo** 1989;(11):68–9 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Distinct effects of calcium- and cyclic AMP-enhancing factors on cytoskeletal synthesis and assembly in mouse osteoblastic cells. Lomri A, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):179–86

Spatio-temporal distribution of the adherens junction-associated molecules vinculin and talin in the early avian embryo. Duband JL, et al. **Cell Differ Dev** 1990 Apr;30(1):55–76

Application of two-dimensional gel electrophoresis in the study of cytoskeletal protein regulation during growth activation and differentiation. Ben-Ze'ev A. **Electrophoresis** 1990 Mar;11(3):191–200 (62 ref.)

Effects of gamma-interferon on the growth, morphology, and membrane and cytoskeletal proteins expression of Lan-1 cells. Parodi MT, et al. **Exp Cell Res** 1989 Dec; 185(2):327–41

Synthesis and phosphorylation of cytoskeletal proteins during the in vitro biogenesis of MDCK cell monolayers. Benítez-King G, et al. **J Cell Sci** 1989 May;93 (Pt 1):53–61

BLOOD

A photoactivable phospholipid analogue that specifically labels membrane cytoskeletal proteins of intact erythrocytes. Pradhan D, et al. **Biochemistry** 1989 Aug 22; 28(17):6943–9

Vinculin is a permanent component of the membrane skeleton and is incorporated into the (re)organising cytoskeleton upon platelet activation. Asijee GM, et al. **Eur J Biochem** 1990 Apr 20;189(1):131–6

Wheat germ agglutinin but not concanavalin A modulates protein kinase C-mediated phosphorylation of red cell skeletal proteins. Danilov YN, et al. **FEBS Lett** 1989 Nov 6;257(2):431–4

DRUG EFFECTS

Topical ocular anesthetics affect epithelial cytoskeletal proteins of wounded cornea. Higbee RG, et al. **J Ocul Pharmacol** 1989 Fall;5(3):241–53

Effects of cytochalasin D on actin and vinculin in cultured corneal epithelial cells. Soong HK, et al. **J Ocul Pharmacol** 1990 Summer;6(2):113–21

[Protein phosphorylation during mast cell secretion in radioprophylaxis] Dulin NO, et al. **Radiobiologiia** 1990 Jan-Feb;30(1):32–5 (Eng. Abstr.) **(Rus)**

GENETICS

Identification of mouse endodermal cytoskeletal protein C (ENDOC) with cytokeratin No. 19. Ichinose Y, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):644–7

Expression of neuronal mRNAs in Alzheimer type degeneration of the nervous system. Clark AW, et al. **Can J Neurol Sci** 1989 Nov;16(4 Suppl):477–82 (54 ref.)

Study of contractile and cytoskeletal proteins using Drosophila genetics. Fyrberg E. **Cell Motil Cytoskeleton** 1989;14(1):118–27 (50 ref.)

Isolation and behavioral analysis of mutants defective in cytoskeletal proteins. Gerisch G, et al. **Cell Motil Cytoskeleton** 1989;14(1):75–9 (15 ref.)

Human molecular genetics and the elucidation of the primary biochemical defect in Duchenne muscular dystrophy. Hoffman EP. **Cell Motil Cytoskeleton** 1989;14(1):163–8 (39 ref.)

The study of cytoskeletal proteins and mitosis using Aspergillus molecular genetics. Morris NR. **Cell Motil Cytoskeleton** 1989;14(1):58–61 (26 ref.)

Molecular genetics: a key to the cytoskeleton's closet. Titus MA, et al. **Curr Opin Cell Biol** 1990 Feb;2(1):116–20 (16 ref.)

An ultraviolet-sensitive maternal mRNA encoding a cytoskeletal protein may be involved in axis formation in the ascidian embryo. Jeffery WR. **Dev Biol** 1990 Sep; 141(1):141–8

Regulation of fibronectin, integrin and cytoskeleton expression in differentiating adipocytes: inhibition by extracellular matrix and polylysine. Rodríguez Fernández JL, et al. **Differentiation** 1989 Dec;42(2):65–74

Altered expression and distribution of the cytoskeletal-associated p35 protein in NIH 3T3 cells transformed with the Harvey sarcoma virus v-ras oncogene. Higgins PJ. **Int J Biochem** 1989;21(6):609–17

Structure of the human desmoplakins. Implications for function in the desmosomal plaque. Green KJ, et al. **J Biol Chem** 1990 Jul 5;265(19):11406–7

Structure of the human desmoplakins. Implications for function in the desmosomal plaque [published erratum appears in J Biol Chem 1990 Jul 5;265(19):11406–7] Green KJ, et al. **J Biol Chem** 1990 Feb 15;265(5):2603–12

Identification of protein IT of the intestinal cytoskeleton as a novel type I cytokeratin with unusual properties and expression patterns. Moll R, et al. **J Cell Biol** 1990 Aug; 111(2):567–80

Complete sequence of human vinculin and assignment of the

gene to chromosome 10. Weller PA, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5667–71

IMMUNOLOGY

Pemphigoid, pemphigus and desmoplakin as antigenic markers of differentiation in normal and tumorigenic mouse keratinocyte lines. Kulesz-Martin M, et al. **Cell Tissue Kinet** 1989 Jul;22(4):279–90

Antibodies to cytoskeletal components in patients undergoing long-term hemodialysis detected by a sensitive enzyme-linked immunosorbent assay (ELISA). Mayet WJ, et al. **Clin Nephrol** 1990 Jun;33(6):272–8

Characterization of monoclonal antibodies to chicken gizzard talin. Otey C, et al. **Hybridoma** 1990 Feb;9(1):57–62

A novel component of the axonal cortical cytoskeleton, A60, defined by a monoclonal antibody. Rayner DA, et al. **J Cell Sci** 1989 Nov;94 (Pt 3):489–500

ISOLATION & PURIFICATION

[Purification and SDS-page analysis of axial filaments from leptospires] Xiao JG, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):1–4 (Eng. Abstr.) **(Chi)**

METABOLISM

Immunocytochemical and ultrastructural studies of Pick's disease. Murayama S, et al. **Ann Neurol** 1990 Apr; 27(4):394–405

Changes in cytoskeletal proteins in response to parathyroid hormone and 1,25-dihydroxyvitamin D in human osteoblastic cells. Lomri A, et al. **Bone Miner** 1990 Jul; 10(1):1–12

Cytomatrix protein residence times differ significantly between the tract and the terminal segments of optic axons. Paggi P, et al. **Brain Res** 1990 May 28;517(1–2):143–50

Purification and characterization of an 85 kDa talin-binding fragment of vinculin. Groesch ME, et al. **Cell Motil Cytoskeleton** 1990;15(1):41–50

Talin dynamics in living microinjected nonmuscle cells. Hock RS, et al. **Cell Motil Cytoskeleton** 1989;14(2):271–87

Membrane proteins of synaptic vesicles and cytoskeletal specializations at the node of Ranvier in electric ray and rat. Zimmermann H, et al. **Cell Tissue Res** 1989 Dec; 258(3):617–29

Isoform distribution and tissue contents of contractile and cytoskeletal proteins in hypertrophied smooth muscle from rat portal vein. Malmqvist U, et al. **Circ Res** 1990 Mar; 66(3):832–45

Cytoskeletal protein and mRNA accumulation during brush border formation in adult chicken enterocytes. Fath KR, et al. **Development** 1990 Jun;109(2):449–59

Antibody mapping of functional domains in vinculin. Westmeyer A, et al. **EMBO J** 1990 Jul;9(7):2071–8

Interaction in situ of the cytoskeletal protein vinculin with bilayers studied by introducing a photoactivatable fatty acid into living chicken embryo fibroblasts. Niggli V, et al. **Eur J Biochem** 1990 Jan 12;187(1):111–7

Effects of phorbol esters on cytoskeletal proteins in cultured bovine chromaffin cells: induction of neurofilament phosphorylation and reorganization of actin. Grant NJ, et al. **Eur J Cell Biol** 1990 Jun;52(1):36–46

Vinculin-lipid monolayer interactions: a model for focal contact formation. Meyer RK. **Eur J Cell Biol** 1989 Dec; 50(2):491–9

Association of cytoskeletal proteins with newly formed acetylcholine receptor aggregates induced by embryonic brain extract. Daniels MP, et al. **Exp Cell Res** 1990 Jan; 186(1):99–108

Interaction of two brain annexins, CaBP33 and CaBP37, with membrane-skeleton proteins. Giambanco I, et al. **FEBS Lett** 1990 Jul 2;267(1):171–5

Phosphorylation of cytoskeleton-associated proteins, pp58 and pp60, in tumouricidal murine peritoneal macrophages. Didier ES, et al. **Immunol Cell Biol** 1989 Oct;67 (Pt 5):311–9

Decreased content of the 35 kDa cytoskeletal protein p35 in Friend erythroleukemia cells exposed to dimethyl sulfoxide and retinoic acid is associated with entrance into a quiescent substrate. Higgins PJ, et al. **Int J Biochem** 1989; 21(6):619–26

Developmental changes in expression of contractile and cytoskeletal proteins in human aortic smooth muscle. Glukhova MA, et al. **J Biol Chem** 1990 Aug 5; 265(22):13042–6

Activation-dependent redistribution of the adhesion plaque protein, talin, in intact human platelets [published erratum appears in J Cell Biol 1990 Mar;110(3):865] Beckerle MC, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3333–46

Tropomodulin: a cytoskeletal protein that binds to the end of erythrocyte tropomyosin and inhibits tropomyosin binding to actin. Fowler VM. **J Cell Biol** 1990 Aug; 111(2):471–81

Identification of a talin binding site in the cytoskeletal protein vinculin. Jones P, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2917–27

Paxillin: a new vinculin-binding protein present in focal adhesions. Turner CE, et al. **J Cell Biol** 1990 Sep; 111(3):1059–68

Cytomatrix synthesis in MDCK epithelial cells. Mitchell JJ, et al. **J Cell Physiol** 1990 Jun;143(3):501–11

Differentiation of human trophoblast cells in vitro as revealed by immunocytochemical staining of desmoplakin and nuclei. Douglas GC, et al. **J Cell Sci** 1990 May;96 (Pt 1):131–41

Cytoskeletal components of the adherens junctions between the photoreceptors and the supportive Müller cells. Williams DS, et al. **J Comp Neurol** 1990 May 1; 295(1):155–64

Characterization of a nerve growth factor-stimulated protein kinase in PC12 cells which phosphorylates microtubule-associated protein 2 and pp250. Landreth GE, et al. **J Neurochem** 1990 Aug;55(2):514–23

Slow transport rates of cytoskeletal proteins change during regeneration of axotomized retinal neurons in adult rats. McKerracher L, et al. **J Neurosci** 1990 Feb;10(2):641–8

Cell biology. Cytoskeleton on the move [news] Hollenbeck PJ. **Nature** 1990 Feb 1;343(6257):408–9

Cytoskeletal protein pathology and the formation of beta-amyloid fibers in Alzheimer's disease. Wisniewski HM, et al. **Neurobiol Aging** 1989 Sep–Oct;10(5):409–12; discussion 412–4

Aluminum induces the in vitro aggregation of bovine brain cytoskeletal proteins. Díaz-Nido J, et al. **Neurosci Lett** 1990 Mar 2;110(1–2):221–6

Slow transport of freely movable cytoskeletal components shown by beading partition of nerve fibers in the cat. Ochs S, et al. **Neuroscience** 1989;33(2):421–30

[Degradation of cytoskeletal proteins in cerebral ischemia] Ogata N. **Nippon Geka Hokan** 1989 Jan 1;58(1):71–9 (Eng. Abstr.) **(Jpn)**

[Axonal microtubules: dynamic organization and axonal transport] Tashiro T, et al. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):508–17 **(Jpn)**

[The role of protein phosphorylation in the organization of the neuronal cytoskeleton] Baryłko B. **Postepy Biochem** 1989;35(3):279–94 (111 ref.) **(Pol)**

[Ca2+-protease—an enzyme of the metabolism of cytoskeletal proteins in the olfactory membrane of vertebrates] Chistiakova IuV, et al. **Tsitologiia** 1989 Nov; 31(11):1345–52 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Involvement of protein kinase C in translocation of desmoplakins from cytosol to plasma membrane during desmosome formation in human squamous cell carcinoma cells grown in low to normal calcium concentration. Sheu HM, et al. **Exp Cell Res** 1989 Nov;185(1):176–90

PHYSIOLOGY

Endothelial monolayer integrity. Perturbation of F-actin filaments and the dense peripheral band-vinculin network. Wong MK, et al. **Arteriosclerosis** 1990 Jan–Feb;10(1):76–84

Changes in cytoskeleton-associated molecules in cells with different degrees of proliferation and metastatic ability. Morasso MI, et al. **Cell Biol Int Rep** 1989 Oct;13(10):863–72

Talin: role at sites of cell-substratum adhesion. Beckerle MC, et al. **Cell Motil Cytoskeleton** 1990;16(1):7–13 (41 ref.)

Functional studies of the domains of talin. Nuckolls GH, et al. **J Cell Biol** 1990 May;110(5):1635–44

[Roles of submembranous cytoskeleton and its regulatory mechanism] Sobue K, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1551–65 **(Jpn)**

[Radiation damage to the structure of the erythrocyte membrane: the role of structural proteins] Fomenko BS, et al. **Radiobiologiia** 1989 Nov–Dec;29(6):746–8 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Adhesion, growth and cytoskeletal characteristics of 8701-BC breast carcinoma cells cultured in the presence of type V collagen. Luparello C, et al. **Eur J Cancer** 1990 Mar;26(3):231–40

Rearrangements of desmosomal and cytoskeletal proteins during the transition from epithelial to fibroblastoid organization in cultured rat bladder carcinoma cells. Boyer B, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1495–509

CYTOSKELETON

Cytoskeletal similarities [letter] Rupeš I. **Nature** 1990 May 10;345(6271):119

[Regulation of the assembly-disassembly of intermediate filaments] Inagaki M, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1462–70 **(Jpn)**

[Cytoskeleton and translocation of cytoplasm in plant cells] Nagai R. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1733–41 **(Jpn)**

[Abnormality in the cytoskeleton of cancer cells—with special reference to intermediate filaments] Nagata K, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1590–8 **(Jpn)**

[The cytoskeleton in cytokinesis in plant cells] Shibaoka H. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1665–71 **(Jpn)**

[Intermediate filaments: biochemical markers of nerve cells and their neuropathological implications] Astarloa R, et al. **Neurologia** 1988 Jul–Aug;3(4):148–57 (112 ref.) **(Spa)**

ANALYSIS

Ubiquitin and phosphorylated neurofilament epitopes in ballooned neurons of the extraocular muscle nuclei in a case of Werdnig-Hoffmann disease. Kato S, et al. **Acta Neuropathol (Berl)** 1990;80(3):334–7

Immunofluorescence localization of vinculin in ectoplasmic ("junctional") specializations of rat Sertoli cells. Grove BD, et al. **Am J Anat** 1990 May;188(1):44–56

A polypeptide of 59 kDa is associated with bundles of cytoplasmic filaments in Neurospora crassa. Rosa AL, et al. **Biochem J** 1990 Jun 15;268(3):649–55

Excimer fluorescence of pyrenyliodoacetamide-labeled tropomyosin: a probe of the state of tropomyosin in reconstituted muscle thin filaments. Ishii Y, et al. **Biochemistry** 1990 Feb 6;29(5):1160–6

Uvomorulin-catenin complex: cytoplasmic anchorage of a Ca2+-dependent cell adhesion molecule. Kemler R, et al. **Bioessays** 1989 Oct;11(4):88–91 (14 ref.)

Transitions in trophectoderm cellular shape and cytoskeletal organization in the elongating pig blastocyst. Mattson BA, et al. **Biol Reprod** 1990 Jan;42(1):195–205

Neurofilament and chromogranin expression in normal and neoplastic neuroendocrine cells of the human gastrointestinal tract and pancreas. Perez MA, et al. **Cancer** 1990 Mar 1;65(5):1219–27

Induction of cells with phenotypic features of neuronal cells by treatment with dibutyryl cyclic adenosine 3',5'-monophosphate in a human parotid gland adenocarcinoma cell line in culture. Nagamine S, et al. **Cancer Res** 1990 Oct 1;50(19):6396–404

Cytokeratin expression during AFB1-induced carcinogenesis. Green JA, et al. **Carcinogenesis** 1990 Jul; 11(7):1175–82

Changes in neutrophil right-angle light scatter can occur independently of alterations in cytoskeletal actin. Kraus E, et al. **Cytometry** 1990;11(2):272–82

Cytoplasmic intermediate filament proteins of invertebrates are closer to nuclear lamins than are vertebrate intermediate filament proteins; sequence characterization of two muscle proteins of a nematode. Weber K, et al. **EMBO J** 1989 Nov;8(11):3221–7

Expression of rat neurofilament proteins NF-L and NF-M in transfected non-neuronal cells. Chin SS, et al. **Eur J Cell Biol** 1989 Dec;50(2):475–90

Colocalization of vinculin-containing adhesion plaques, microfilaments and cytokeratin filaments in cytochalasin-treated PtK1 cells. Roscioli NA, et al. **Eur J Cell Biol** 1989 Dec;50(2):522–4

On the relation between distinct components of the cytoskeleton: an epitope shared by intermediate filaments, microfilaments and cytoplasmic foci. Turner JR, et al. **Eur J Cell Biol** 1990 Apr;51(2):259–64

Arrangement of cytoskeletal filaments at the equator of chicken intrafusal muscle fibers. Maier A, et al. **Histochemistry** 1990;93(4):423–8

Transferrin receptors on the surfaces of retinal pigment epithelial cells are associated with the cytoskeleton. Hunt RC, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):655–66

A Ca2(+)-sensitive glycoprotein, GP90, associated with the cytoskeleton from brain and gizzard. Moss DJ, et al. **J Cell Sci** 1989 May;93 (Pt 1):85–94

Whole-mount preparations of mouse lens epithelium for the fluorescent cytological study of actin. Liou W. **J Microsc** 1990 Feb;157 (Pt 2):239–45

Analysis by confocal scanning laser microscopy imaging of the spatial distribution of intermediate filaments in foetal and adult rat liver cells. Vassy J, et al. **J Microsc** 1990 Jan;157 (Pt 1):91–104

Neurofilament-like pattern of reactivity in human foetal PNS and spinal cord following immunostaining with polyclonal anti-glial fibrillary acidic protein antibodies. Hansen SH, et al. **J Neurocytol** 1989 Aug;18(4):427–36

Organization of oligodendroglial membrane sheets. I: Association of myelin basic protein and 2',3'-cyclic nucleotide 3'-phosphohydrolase with cytoskeleton. Dyer CA, et al. **J Neurosci Res** 1989 Oct;24(2):201–11

Altered cytoskeletal organization and secretory response of thrombin-activated platelets from copper-deficient rats. Johnson WT, et al. **J Nutr** 1989 Oct;119(10):1404–10

Plasma membrane and cytoskeletal constituents in Leishmania mexicana. Dagger F, et al. **Mol Biol Rep** 1988–89;13(4):197–206

Immunohistologic abnormalities of the microfibrillar-fiber system in the Marfan syndrome. Hollister DW, et al. **N Engl J Med** 1990 Jul 19;323(3):152–9

Characterization of a novel 66 kd subunit of mammalian neurofilaments. Chiu FC, et al. **Neuron** 1989 May; 2(5):1435–45

Ubiquitin: a multifunctional regulatory protein associated with the cytoskeleton. Fried VA, et al. **Prog Clin Biol Res** 1989;317:733–44 (24 ref.)

Intermediate filaments and ubiquitin: a new thread in the understanding of chronic neurodegenerative diseases. Mayer RJ, et al. **Prog Clin Biol Res** 1989;317:809–18 (12 ref.)

Characterisation of the first monoclonal antibody against the pronase resistant core of the Alzheimer PHF. Novak M, et al. **Prog Clin Biol Res** 1989;317:755–61

The spectrin-based membrane skeleton: extensions of the current paradigm. Bennett V, et al. **Soc Gen Physiol Ser** 1988;43:101–9 (33 ref.)

[Medullary carcinoma of the breast. Co-expression of keratin intermediate filaments and protein S-100 in tumor cells] Puzzo L, et al. **Pathologica** 1989 Jul–Aug;81(1074):433–9

(Eng. Abstr.) (Ita)
[Dynamics of protein molecules in the cytoskeleton of the dividing cell] Hamaguchi Y.
Tanpakushitsu Kakusan Koso 1989 Sep;34(12 Suppl):1638–45 (Jpn)
[Approach to mechanism of muscle contraction by molecular micromanipulation] Yanagida T, et al.
Tanpakushitsu Kakusan Koso 1989 Oct;34(13):1784–92 (Jpn)
[Immunohistochemical analysis of the liver using monoclonal antibodies against intermediate filaments] Porubský J, et al. **Bratisl Lek Listy** 1990 Jun;91(6):484–8 (Eng. Abstr.) (Slo)

DRUG EFFECTS

Evidence for increased myofilament Ca2+ sensitivity in norepinephrine–activated vascular smooth muscle.
Nishimura J, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H2–8
Effects of cytotoxic prostaglandin, delta 12–PGJ2 on protein synthesis and cytoskeleton in transformed epidermal cells in culture. Iksi K, et al. **Arch Dermatol Res** 1990; 282(2):131–4
Effect of cytochalasin D on acinar cell structure and secretion in rat parotid salivary glands in vitro. Tojyo Y, et al. **Arch Oral Biol** 1989;34(11):847–55
Distinct cytoskeletal injuries induced by As, Cd, Co, Cr, and Ni compounds. Chou IN. **Biomed Environ Sci** 1989 Dec; 2(4):358–65
Neuronal intermediate filaments in rat dorsal root ganglia: differential distribution of peripherin and neurofilament protein immunoreactivity and effect of capsaicin. Ferri GL, et al. **Brain Res** 1990 May 7;515(1–2):331–5
Glia maturation factor–beta promotes the appearance of large neurofilament–rich neurons in injured rat brains. Lim R, et al. **Brain Res** 1989 Dec 11;504(1):154–8
Intermediate filament assembly and stability in vitro: effect and implications of the removal of head and tail domains of vimentin by the human immunodeficiency virus type 1 protease. Shoeman RL, et al. **Cell Biol Int Rep** 1990 Jul; 14(7):583–94
Modifications of microfilaments and microtubules induced by two hepatic tumor promoters, phenobarbital and biliverdin in non–transformed and transformed hepatic cell lines. Decloitre F, et al. **Cell Biol Toxicol** 1990 Jan; 6(1):23–34
Cytoskeletal dynamics in rabbit synovial fibroblasts: II. Reformation of stress fibers in cells rounded by treatment with collagenase–inducing agents. Aggeler J.
Cell Motil Cytoskeleton 1990;16(2):121–32
Cytoskeletal dynamics in rabbit synovial fibroblasts: I. Effects of acrylamide on intermediate filaments and microfilaments. Aggeler J, et al. **Cell Motil Cytoskeleton** 1990;16(2):110–20
Propranolol, a beta–adrenergic receptor blocker, affects microfilament organization, but not microtubules, during the first division in sea urchin eggs. Nicotra A, et al.
Cell Motil Cytoskeleton 1990;16(3):182–9
Sodium–N–butyrate induces cytoskeletal rearrangements and formation of cornified envelopes in cultured adult human keratinocytes. Staiano–Coico L, et al. **Cell Tissue Kinet** 1989 Sep;22(5):361–75
Luteinizing hormone–induced modifications of the cytoskeleton in cultured mouse Leydig cells. Bilińska B, et al. **Cytobios** 1989;58(232):25–34
Staurosporine induces dissolution of microfilament bundles by a protein kinase C–independent pathway. Hedberg KK, et al. **Exp Cell Res** 1990 Jun;188(2):199–208
The cytoskeleton as a target in quinone toxicity. Bellomo G, et al. **Free Radic Res Commun** 1990;8(4–6):391–9
Visualization of the cytoskeleton in Leydig cells in vitro. Effect of luteinizing hormone and cytoskeletal disrupting drugs. Bilińska B. **Histochemistry** 1989;93(1):105–10
Interaction of Clostridium difficile toxin A with cultured cells: cytoskeletal changes and nuclear polarization. Fiorentini C, et al. **Infect Immun** 1990 Jul;58(7):2329–36
Cytoskeletal rearrangement by oxidative stress. Rogers KR, et al. **Int J Tissue React** 1989;11(6):309–14
Disruption of cytoskeletal structures results in the induction of the urokinase–type plasminogen activator gene expression. Botteri FM, et al. **J Biol Chem** 1990 Aug 5; 265(22):13327–34
Cytoskeleton as a target in menadione–induced oxidative stress in cultured mammalian cells. I. Biochemical and immunocytochemical features. Bellomo G, et al.
J Cell Physiol 1990 Apr;143(1):118–28
Effects of chlorpromazine and low calcium on the cytoskeleton and the secretory function of hepatocytes in vitro. Kawahara H, et al. **J Hepatol** 1990 Jan;10(1):8–16
Calcitonin, prostaglandin E2, and dibutyryl cyclic adenosine 3',5'–monophosphate disperse the specific microfilament structure in resorbing osteoclasts. Lakkakorpi PT, et al.
J Histochem Cytochem 1990 Oct;38(10):1487–93
Interferon–alpha modulates the plasma membrane–cytoskeletal complex of human lymphoblastoid cells sensitive to the antiproliferative action of interferon–alpha. Pfeffer LM, et al. **J Interferon Res** 1990 Feb;10(1):91–7
Solvent effects on cytoskeletal organization and in–vivo survival after freezing of rabbit oocytes. Vincent C, et al.
J Reprod Fertil 1989 Nov;87(2):809–20
Effect of aluminum and other multivalent cations on neurofilaments in vitro: an electron microscopic study. Troncoso JC, et al. **J Struct Biol** 1990 Mar;103(1):2–12
Influence of sulfhydryl agents on cytoskeleton in cultured human trabecular cells. Iwamoto Y, et al.
Jpn J Ophthalmol 1989;33(3):318–26
The major hallucinogens and the central cytoskeleton: an association beyond coincidence? Towards sub–cellular mechanisms in schizophrenia. van Woerkom AE.
Med Hypotheses 1990 Jan;31(1):7–15 (85 ref.)
Effects of a phorbol ester on cell proliferation, cytoskeleton and chromosomes in 3T3 T proadipocytes. Yun K.
Pathology 1989 Oct;21(4):294–303
Effects of phorbol esters on endothelial cell microfilaments: laser scanning confocal microscopy and quantitative morphometry of dose dependent changes. Nielsen TB, et al. **Tissue Cell** 1989;21(6):813–23
The Sertoli cell cytoskeleton: a target for toxicant–induced germ cell loss. Boekelheide K, et al.
Toxicol Appl Pharmacol 1989 Dec;101(3):373–89 (89 ref.)
Effects of Clostridium difficile toxins A and B on cytoskeleton organization in HEp–2 cells: a comparative morphological study. Fiorentini C, et al. **Toxicon** 1989; 27(11):1209–18
[Modification of the cellular cytoskeleton and hepatic tumor promotion] Decloitre F, et al. **Bull Cancer (Paris)** 1990; 77(5):479–83 (Eng. Abstr.) (Fre)
[Cytoskeletal regulation of the sensitivity of brain synaptosomes to the depolarizing action of veratrine] Rakovich AA, et al. **Tsitologiia** 1989 Aug;31(8):980–5 (Eng. Abstr.) (Rus)
[Fibroblast spreading in the presence of cytochalasin D: immunoelectron microscopy of the cytoskeleton] Svitkina TM. **Tsitologiia** 1989 Oct;31(10):1158–64 (Eng. Abstr.) (Rus)

ENZYMOLOGY

Interactions between glycolytic enzymes and cytoskeletal structure—the influence of ionic strength and molecular crowding. Shearwin K, et al. **Biochem Int** 1990;21(1):53–60
CTP:cholinephosphate cytidylyltransferase in human and rat lung: association in vitro with cytoskeletal actin. Hunt AN, et al. **Biochim Biophys Acta** 1990 Mar 12;1043(1):19–26
pCMBS–induced swelling of dogfish (Squalus acanthias) rectal gland cells: role of the Na+,K(+)–ATPase and the cytoskeleton. Kleinzeller A, et al. **Biochim Biophys Acta** 1990 Jun 11;1025(1):21–31
Na+,K+–adenosine triphosphatase polarity in retinal photoreceptors: a role for cytoskeletal attachments. Madreperla SA, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1483–93
Protein kinase C is localized in focal contacts of normal but not transformed fibroblasts. Hyatt SL, et al.
Mol Carcinog 1990;3(2):45–53

IMMUNOLOGY

Antibodies to axonal neurofilaments in Creutzfeldt–Jakob disease and other organic dementias. Mitrová E, et al.
Acta Virol (Praha) 1989 Aug;33(4):371–4
Relative abundance of tau and neurofilament epitopes in hippocampal neurofibrillary tangles. Schmidt ML, et al.
Am J Pathol 1990 May;136(5):1069–75
Stratum corneum antibodies detected by hemagglutination are not directed against keratin intermediate filaments. Qutaishat S, et al. **Arch Dermatol Res** 1990;282(2):89–92
Interaction of membrane–bound Fc gamma receptors with the cytoskeletal matrix. Boratyński J, et al.
Arch Immunol Ther Exp (Warsz) 1988;36(5):595–607
Naturally occurring human IgG antibodies to intracellular and cytoskeletal components of human platelets. Pfueller SL, et al. **Clin Exp Immunol** 1990 Mar;79(3):367–73
Diversity in immunoreactivity of tumor–derived cytokeratin monoclonal antibodies. Sundström BE, et al.
J Histochem Cytochem 1989 Dec;37(12):1845–54
Phosphate–dependent monoclonal antibodies to neurofilaments and Alzheimer neurofibrillary tangles recognize a synthetic phosphopeptide. Coleman MP, et al.
J Neurochem 1990 May;54(5):1548–55
Swollen cortical neurons in Creutzfeldt–Jakob disease contain a phosphorylated neurofilament epitope. Nakazato Y, et al. **J Neuropathol Exp Neurol** 1990 May;49(3):197–205
Cross–reactivity of an antineurofilament antibody with a troponin–T isoform. Takagi M, et al. **Muscle Nerve** 1989 Oct;12(10):827–32
Characterization by monoclonal antibody of a highly conserved antigenic determinant expressed on human platelet membranes and intermediate filament type III. Alessio M, et al. **Scand J Immunol** 1990 May;31(5):609–17
[Antibodies to cytoskeletal systems in patients with adult T–cell leukemia and infectious mononucleosis] Yasuda M, et al. **Rinsho Ketsueki** 1989 Jul;30(7):1005–9 (Eng. Abstr.) (Jpn)
[Use of monoclonal antibodies to intermediate filaments in the diagnosis of cancer] Starzyńska T. **Pol Tyg Lek** 1989 Jun 19–26;44(25–26):595–8 (25 ref.) (Pol)

METABOLISM

Paired helical filaments are not the major binding sites for wheat germ and Dolichos biflorus agglutinins in the neurofibrillary tangles of Alzheimer's disease. Sparkman DR, et al. **Acta Neuropathol (Berl)** 1990;79(6):640–6
S–100 proteins: relationships with membranes and the cytoskeleton. Donato R. **Adv Exp Med Biol** 1990;269:103–6 (32 ref.)
Phosphorylation of the calcium–binding protein, p68, in the submembranous cytoskeleton of human placental syncytiotrophoblast. Kenton P, et al.
Adv Exp Med Biol 1990;269:145–8 (23 ref.)
Ca2(+)–binding proteins as components of the cytoskeleton. Schleicher M, et al. **Adv Exp Med Biol** 1990;269:99–102 (21 ref.)
Interactive effects of O3, cytochalasin D, and vinblastine on transepithelial transport and cytoskeleton in rat airways. Bhalla DK, et al. **Am J Respir Cell Mol Biol** 1990 Aug; 3(2):119–29
Fluorescent measurement of desmin intermediate filament assembly. Ip W, et al. **Anal Biochem** 1990 Feb 15; 185(1):10–6
Degeneration of pyramidal projection neurons in Huntington's disease cortex. Cudkowicz M, et al.
Ann Neurol 1990 Feb;27(2):200–4
Biogenesis of the red blood cell membrane–skeleton and the control of erythroid morphogenesis. Lazarides E, et al.
Annu Rev Cell Biol 1989;5:427–52 (146 ref.)
Expression of intermediate filaments in neuroendocrine tumors. Kimura N, et al. **Arch Pathol Lab Med** 1990 May; 114(5):506–10
Effects of ammonia on human neutrophil N–formyl chemotactic peptide receptor–ligand interaction and cytoskeletal association. Coppi M, et al.
Biochem Biophys Res Commun 1989 Nov 30;165(1):377–83
Opposite effects of alfa–actinin and of fructose 1,6–bisphosphate aldolase on the microfilament network. The role of orthophosphate revisited. Grazi E, et al.
Biochem Int 1989 Dec;19(6):1345–53
The influence of molecular crowding on the binding of glycolytic enzymes to cytoskeletal structure. Shearwin K, et al. **Biochem Int** 1989 Oct;19(4):723–9
Antigenic probes locate binding sites for the glycolytic enzymes glyceraldehyde–3–phosphate dehydrogenase, aldolase and phosphofructokinase on the actin monomer in microfilaments. Méjean C, et al. **Biochem J** 1989 Dec 15;264(3):671–7
Intermediate filament–ubiquitin diseases: implications for cell sanitization. Mayer RJ, et al. **Biochem Soc Symp** 1989; 55:193–201
Tropomyosin stabilizes the pointed end of actin filaments by slowing depolymerization. Broschat KO, et al.
Biochemistry 1989 Oct 17;28(21):8501–6
Kinetics of the interaction of a 41–kilodalton macrophage capping protein with actin: promotion of nucleation during prolongation of the lag period. Young CL, et al.
Biochemistry 1990 Mar 6;29(9):2232–40
Membrane skeleton–bilayer interaction is not the major determinant of membrane phospholipid asymmetry in human erythrocytes. Gudi SR, et al.
Biochim Biophys Acta 1990 Mar 30;1023(1):63–72
Decreased biosynthesis of actin and cellular fibronectin during adipose conversion of 3T3–F442A cells. Reorganization of the cytoarchitecture and extracellular matrix fibronectin. Antras J, et al. **Biol Cell** 1989; 66(3):247–54
Appearance and localization of phosphorylated variants of the high molecular weight neurofilament protein in NB2a/d1 cytoskeletons during differentiation. Shea TB, et al. **Brain Res Dev Brain Res** 1989 Nov 1;50(1):142–6
Cytoskeleton and calcium. A review. Dard M.
Bull Group Int Rech Sci Stomatol Odontol 1989 Dec; 32(4):209–15 (87 ref.)
Intermediate filaments in the human pituitary gland: an immunohistochemical study. Halliday WC, et al.
Can J Neurol Sci 1990 May;17(2):131–6
Intracellular assembly of newly synthesized canine cardiac myosins. Seko Y, et al. **Cell Biochem Funct** 1990 Apr; 8(2):117–30
Vimentin in human erythroleukemia (HEL) cells is modulated with differentiation inducers. Järvinen M.
Cell Biol Int Rep 1990 Mar;14(3):199–209
Insulin and step–up conditions cause a redistribution of polysomes among free, cytoskeletal–bound and membrane–bound fractions in Krebs II ascites cells. Vedeler A, et al. **Cell Biol Int Rep** 1990 Mar;14(3):211–8
Formation, transport, contraction, and disassembly of stress fibers in fibroblasts. Giuliano KA, et al.
Cell Motil Cytoskeleton 1990;16(1):14–21
Immunofluorescent localization of myosin, alpha–actinin and tropomyosin in odontoblast microfilament bundles of the rat incisor. Nishikawa S, et al. **Cell Struct Funct** 1989 Aug; 14(4):407–14
Expression of fetal–type intermediate filaments by 17–day–old rat Sertoli cells cultured on reconstituted basement membrane. Guillou F, et al. **Cell Tissue Res** 1990 May;260(2):395–401
Keratin filaments of epithelial and taste–bud cells in the circumvallate papillae of adult and developing mice. Takeda M, et al. **Cell Tissue Res** 1990 Apr;260(1):41–8
Differential effects of cardiac hypertrophy and failure on right versus left ventricular calcium activation. Perreault CL, et al. **Circ Res** 1990 Sep;67(3):707–12
The transmembrane and intracellular transport of drugs: interactions with the cytoskeletal network. Bilej M, et al.
Crit Rev Ther Drug Carrier Syst 1989;6(2):613–91 (268 ref.)
Neuronal intermediate filaments. Liem RK.
Curr Opin Cell Biol 1990 Feb;2(1):86–90 (17 ref.)
Cytoskeletal dynamics in animal morphogenesis. Hülfer SR, et al. **Dev Biol (N Y 1985)** 1986;2:3–29 (86 ref.)

Temporal and spatial expression of a cytoskeletal actin gene in the ascidian Styela clava. Beach RL, et al. **Dev Genet** 1990;11(1):2–14

The minor myosin heavy chain, mhcA, of Caenorhabditis elegans is necessary for the initiation of thick filament assembly. Waterston RH. **EMBO J** 1989 Nov; 8(11):3429–36

Effects of phorbol esters on cytoskeletal proteins in cultured bovine chromaffin cells: induction of neurofilament phosphorylation and reorganization of actin. Grant NJ, et al. **Eur J Cell Biol** 1990 Jun;52(1):36–46

Inhibitory effects of protein kinase inhibitors and cytoskeletal inhibitors on Ca2(+)-free contraction of rat uterus. Karibe H, et al. **Eur J Pharmacol** 1990 Jun 12;188(6):407–10

Alteration of cellular adhesion by heat shock. Cress AE, et al. **Exp Cell Res** 1990 Sep;190(1):40–6

Cytoskeleton-bound mRNA for a 40-kDa polypeptide in rat L6 cells is not always translated. Meadus WJ, et al. **Exp Cell Res** 1990 Mar;187(1):25–32

Abnormal accumulation of elastin-associated microfibrils during elastolysis in the arterial wall. Katsuda S, et al. **Exp Mol Pathol** 1990 Feb;52(1):13–24

Primitive neuroectodermal tumors of the central nervous system express neuroendocrine markers and may express all classes of intermediate filaments. Gould VE, et al. **Hum Pathol** 1990 Mar;21(3):245–52 (63 ref.)

Altered expression and distribution of the cytoskeletal-associated p35 protein in NIH 3T3 cells transformed with the Harvey sarcoma virus v-ras oncogene. Higgins PJ. **Int J Biochem** 1989;21(6):609–17

Localized mRNA and the egg cytoskeleton. Jeffery WR. **Int Rev Cytol** 1989;119:151–95 (142 ref.)

Changes in intermediate filament immunolabeling occur in response to retinal detachment and reattachment in primates. Guérin CJ, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1474–82

Studies on the interaction between mitochondria and the cytoskeleton. Lindén M, et al. **J Bioenerg Biomembr** 1989 Aug;21(4):507–18

Phosphorylation sites linked to glial filament disassembly in vitro locate in a non-alpha-helical head domain. Inagaki M, et al. **J Biol Chem** 1990 Mar 15;265(8):4722–9

Phosphorylation of the amino-terminal head domain of the middle molecular mass 145-kDa subunit of neurofilaments. Evidence for regulation by second messenger-dependent protein kinases. Sihag RK, et al. **J Biol Chem** 1990 Mar 5;265(7):4166–71

Acanthamoeba myosin-II minifilaments assemble on a millisecond time scale with rate constants greater than those expected for a diffusion limited reaction. Sinard JH, et al. **J Biol Chem** 1990 Mar 5;265(7):3654–60

Cytovillin and other microvillar proteins of human choriocarcinoma cells. Pakkanen R, et al. **J Cell Biochem** 1989 Sep;41(1):1–12

Identification of actin filaments in the rhabdomeral microvilli of Drosophila photoreceptors. Arikawa K, et al. **J Cell Biol** 1990 Jun;110(6):1993–8

Control of actin filament length by phosphorylation of fragmin-actin complex. Furuhashi K, et al. **J Cell Biol** 1990 Sep;111(3):1081–7

Dynamic cytoskeleton-integrin associations induced by cell binding to immobilized fibronectin. Mueller SC, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3455–64

Microinjection of recombinant p21rho induces rapid changes in cell morphology. Paterson HF, et al. **J Cell Biol** 1990 Sep;111(3):1001–7

Spreading of trypsinized cells: cytoskeletal dynamics and energy requirements. Bereiter-Hahn J, et al. **J Cell Sci** 1990 May;96 (Pt 1):171–88

Intermediate filament collapse is an ATP-dependent and actin-dependent process. Hollenbeck PJ, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):621–31

Definition of individual components within the cytoskeleton of Trypanosoma brucei by a library of monoclonal antibodies. Woods A, et al. **J Cell Sci** 1989 Jul;93 (Pt 3):491–500

The structure of the macrophage actin skeleton. Yin HL, et al. **J Cell Sci Suppl** 1988;9:169–84 (40 ref.)

Age-dependent pattern of intermediate filament protein expression in the human pineal gland. Kasper M, et al. **J Hirnforsch** 1990;31(2):215–21

Immunohistochemical localization of vimentin in the gerbil inner ear. Schulte BA, et al. **J Histochem Cytochem** 1989 Dec;37(12):1787–97

Interactions between a lymphoma membrane-associated guanosine 5'-triphosphate-binding protein and the cytoskeleton during receptor patching and capping. Bourguignon LY, et al. **J Immunol** 1990 Mar 15; 144(6):2242–52

Vitronectin shows complement-independent binding to isolated keratin filament aggregates. Hintner H, et al. **J Invest Dermatol** 1989 Nov;93(5):656–61

Hemidesmosomes, collagen VII, and intermediate filaments in basal cell carcinoma. Jones JC, et al. **J Invest Dermatol** 1989 Nov;93(5):662–71

Decrease with senescence in the norepinephrine-induced phosphorylation of myofilament proteins in isolated rat cardiac myocytes. Sakai M, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1327–36

Expression of glial fibrillary acidic protein and neurofilament mRNA in gliosis induced by experimental autoimmune encephalomyelitis. Aquino DA, et al. **J Neurochem** 1990 Apr;54(4):1398–404

Chicken growth-associated protein GAP-43 is tightly bound to the actin-rich neuronal membrane skeleton. Moss DJ, et al. **J Neurochem** 1990 Mar;54(3):729–36

Phosphorylation-dependent immunoreactivity of neurofilaments increases during axonal maturation and beta,beta'-iminodipropionitrile intoxication. Watson DF, et al. **J Neurochem** 1989 Dec;53(6):1818–29

A monoclonal IgA in a patient with amyotrophic lateral sclerosis reacts with neurofilaments and surface antigen on neuroblastoma cells. Hays AP, et al. **J Neuropathol Exp Neurol** 1990 Jul;49(4):383–98

GAP-43 in growth cones is associated with areas of membrane that are tightly bound to substrate and is a component of a membrane skeleton subcellular fraction. Meiri KF, et al. **J Neurosci** 1990 Jan;10(1):256–66

Organization of oligodendroglial membrane sheets: II. Galactocerebroside:antibody interactions signal changes in cytoskeleton and myelin basic protein. Dyer CA, et al. **J Neurosci Res** 1989 Oct;24(2):212–21

Invertebrate phototransduction: involvement of cytoskeletal elements. Nuske JH, et al. **J Protein Chem** 1989 Jun; 8(3):408–13

On the relationships between the rate of cytoskeletal stable assemblies turnover, stability of the differentiated state, development and aging. Wagner AP. **J Theor Biol** 1989 May 22;138(2):175–84

Coexpression of intermediate filaments in squamous cell carcinomas of upper aerodigestive tract before and after radiation and chemotherapy. Fischer HP, et al. **Lab Invest** 1989 Oct;61(4):433–9

Palmitic acid-labeled lipids selectively incorporated into platelet cytoskeleton during aggregation. Packham MA, et al. **Lipids** 1990 Jul;25(7):371–8

Vaults: large cytoplasmic RNP's that associate with cytoskeletal elements. Kedersha NL, et al. **Mol Biol Rep** 1990;14(2-3):121–2 (4 ref.)

Ca2+, pH and the regulation of cardiac myofilament force and ATPase activity. Solaro RJ, et al. **Mol Cell Biochem** 1989 Sep 7;89(2):163–7

Cyclic AMP-mediated cytoskeletal effects in adrenal cells are modified by serum, insulin, insulin-like growth factor-I, and an antibody against urokinase plasminogen activator. Hornsby PJ, et al. **Mol Cell Endocrinol** 1989 Dec; 67(2-3):185–93

Alteration of axonal microfilaments alters Schwann cell lipid metabolism. Souyri F, et al. **Mol Chem Neuropathol** 1989 Oct;11(2):87–98

Concanavalin A induces a cytoskeletal association of T200 molecules in T lymphocytes. Taffs RE, et al. **Mol Immunol** 1989 Oct;26(10):925–37

Quantitative changes in cytoskeletal beta- and gamma-actin mRNAs and apparent absence of sarcomeric actin gene transcripts in early mouse embryos. Taylor KD, et al. **Mol Reprod Dev** 1990 Jun;26(2):111–21

Immunocytochemical study of dystrophin at the myotendinous junction. Samitt CE, et al. **Muscle Nerve** 1990 Jun;13(6):493–500

Cell biology. Cytoskeleton on the move [news] Hollenbeck PJ. **Nature** 1990 Feb 1;343(6257):408–9

Mitosis-specific phosphorylation causes 83K non-muscle caldesmon to dissociate from microfilaments. Yamashiro S, et al. **Nature** 1990 Apr 12;344(6267):675–8

The amyloid proteins of Alzheimer's disease as potential targets for drug therapy. Caputo CB, et al. **Neurobiol Aging** 1989 Sep-Oct;10(5):451–61 (148 ref.)

What mediates between beta-amyloid and paired helical filaments? Ihara Y. **Neurobiol Aging** 1989 Sep-Oct; 10(5):573–4; discussion 588–90

Retardation in the slow axonal transport of cytoskeletal elements during maturation and aging. McQuarrie IG, et al. **Neurobiol Aging** 1989 Jul-Aug;10(4):359–65 (31 ref.)

Cytoskeleton and NGF in the pathogenesis and treatment of Alzheimer's disease. Shelanski ML. **Neurobiol Aging** 1989 Sep-Oct;10(5):577; discussion 588–90

Cytoskeletal protein pathology and the formation of beta-amyloid fibers in Alzheimer's disease. Wisniewski HM, et al. **Neurobiol Aging** 1989 Sep-Oct;10(5):409–12; discussion 412–4

Neurofilament protein crosslinking in gamma-diketone neuropathy: in vitro and in vivo studies using the seaworm myxicola infundibulum. St. Clair MB, et al. **Neurotoxicology** 1990 Winter;10(4):743–56

Microinjection of antibodies to the calpactin I light chain in MDBK cells causes precipition of the cytoskeletal calpactin I complex without affecting the distribution of related proteins. Glenney JR Jr. **Prog Clin Biol Res** 1990; 349:135–46

Aberrant protein phosphorylation and cytoarchitecture in Alzheimer's disease. Saitoh T, et al. **Prog Clin Biol Res** 1989;317:769–80 (30 ref.)

Multiple proteins are abnormally processed in Alzheimer disease. Sternberger LA, et al. **Prog Clin Biol Res** 1989; 317:763–8 (30 ref.)

Hyperpurification of paired helical filaments reveals elevations in hydroxyproline content and a core structure related peptide fragment. Vogelsang GD, et al. **Prog Clin Biol Res** 1989;317:791–800 (27 ref.)

Coexpression of intermediate filaments in normal and neoplastic human tissues: a reappraisal. Coggi G, et al. **Ultrastruct Pathol** 1989 Sep-Dec;13(5-6):501–14 (93 ref.)

Three-dimensional identification of actin filaments in phalloidin-treated rat livers by quick-freezing and deep-etching method. Naramoto A, et al. **Virchows Arch [A]** 1990;417(1):15–20

[Actin binding proteins from physarum and the organization of the actin cytoskeleton] Furuhashi K, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1524–32 **(Jpa)**

[Neuronal cytoskeleton: molecular architecture, function and dynamics] Hirokawa N. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):480–507 **(Jpa)**

[The role of protein phosphorylation in mast cell secretion, stimulated by concanavalin A. Connection to the cytoskeleton] Dulin NO, et al. **Biokhimiia** 1989 Sep; 54(9):1428–33 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Association of bluetongue virus with the cytoskeleton. Eaton BT, et al. **Subcell Biochem** 1989;15:233–73 (57 ref.)

The release of bluetongue virus from infected cells and their superinfection by progeny virus. Hyatt AD, et al. **Virology** 1989 Nov;173(1):21–34

PATHOLOGY

Molecular relation of amyloid filaments and paired helical filaments in Alzheimer's disease. Selkoe DJ, et al. **Adv Neurol** 1990;51:171–9 (47 ref.)

Dissociation of GFAP intermediate filaments in EAE: observations in the lumbar spinal cord. Eng LF, et al. **GLIA** 1989;2(5):308–17

Neurotrophic agents may exacerbate the pathologic cascade of Alzheimer's disease. Butcher LL, et al. **Neurobiol Aging** 1989 Sep-Oct;10(5):557–70 (115 ref.)

Neuronal cytoskeleton in the biology of Alzheimer disease. Grundke-Iqbal I, et al. **Prog Clin Biol Res** 1989;317:745–53 (38 ref.)

Characterisation of the first monoclonal antibody against the pronase resistant core of the Alzheimer PHF. Novak M, et al. **Prog Clin Biol Res** 1989;317:755–61

Alteration of neuritic cytoarchitecture in Alzheimer disease. Onorato M, et al. **Prog Clin Biol Res** 1989;317:781–9 (29 ref.)

The red cell membrane skeleton: a model with general biological relevance but pathological significance for blood. Agre P, et al. **Soc Gen Physiol Ser** 1988;43:91–100 (41 ref.)

Analysis of platelet cytoskeleton assembly during platelet activation in Hermansky-Pudlak syndrome and thrombasthenia. Fujimura K, et al. **Thromb Haemost** 1990 Feb 19;63(1):103–11

[Paramembraneous microfilamentous structures of the synapses of rat cerebral cortex during sensitization by brain antigens] Ereniev SI, et al. **Biull Eksp Biol Med** 1989 Nov; 108(11):624–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Extracellular matrix, cell skeletons, and embryonic development. Hay ED. **Am J Med Genet** 1989 Sep; 34(1):14–29 (63 ref.)

Role of cytoskeleton in canalicular contraction in cultured differentiated hepatocytes. Kawahara H, et al. **Am J Pathol** 1990 Mar;136(3):521–32

Modification of temperature dependence of myofilament Ca sensitivity by troponin C replacement. Harrison SM, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):C282–8

Role of microfilaments in maintenance of proximal tubule structural and functional integrity. Kellerman PS, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):F279–85

Role of the cytoskeleton in regulation of gastric HCl secretion. Cuppoletti J, et al. **Ann N Y Acad Sci** 1989; 574:309–20

The contractile ring and furrowing in dividing cells. Schroeder TE. **Ann N Y Acad Sci** 1990;582:78–87 (54 ref.)

Intracellular ionic calcium and the cytoskeleton in living cells. Shelanski ML. **Ann N Y Acad Sci** 1989;568:121–4

Actin filament and desmosome formation in cultured human keratinocytes. Inohara S, et al. **Arch Dermatol Res** 1990; 282(3):210–2

"Clamping" actin in polymerized form in electro-permeabilized neutrophils inhibits oxidase activation. al-Mohanna FA, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1222–8

Microfilaments regulate the rate of exocytosis in rat basophilic leukemia cells. Narasimhan V, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):222–9

Evidence for a role of microfilaments in insulin release from purified beta-cells. Wang JL, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):424–30

Inhibition of human neutrophil aggregation by albumin. Relationship with cytoskeleton reorganization. Colli S, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):3909–12

Membrane/cytoskeletal interactions in blood platelets and leucocytes: structural and functional implications. Crawford N, et al. **Biochem Soc Trans** 1989 Dec; 17(6):966–71 (12 ref.)

K+-induced swelling of the dogfish shark (Squalus acanthias) rectal gland cells is associated with changes of the cytoskeleton. Kleinzeller A, et al. **Biochim Biophys Acta** 1989 Oct 30;1014(1):40–52

Membranes and microfilaments: interactions and role in cellular dynamics. Carraway KL. **Bioessays** 1990 Feb; 12(2):90–2 (24 ref.)

The role of the vimentin intermediate filaments in rat 3Y1

cells elucidated by immunoelectron microscopy and computer-graphic reconstruction. Katsumoto T, et al. **Biol Cell** 1990;68(2):139–46

The study of rheological effects on vascular endothelial cells in culture. Levesque MJ, et al. **Biorheology** 1989; 26(2):345–57

The role of membrane skeletal-associated alpha-globin in the pathophysiology of beta-thalassemia. Sorensen S, et al. **Blood** 1990 Mar 15;75(6):1333–6

Giant axonopathy characterized by intermediate location of axonal enlargements and acceleration of neurofilament transport. Monaco S, et al. **Brain Res** 1990 Jun 11; 519(1–2):73–81

Intermediate filament dynamics. Steinert PM, et al. **Cell** 1990 Feb 23;60(4):521–3 (22 ref.)

Analysis of the topological changes induced on cells exposed to adhesive or mechanical stimuli. Andre P, et al. **Cell Biophys** 1990 Jan–Apr;16(1–2):13–34

T lymphocyte aggregation with immobilized anti-TCR-antibodies is dependent upon energy and microfilament assembly. DeBell KE, et al. **Cell Immunol** 1990 Apr 15;127(1):159–71

The yeast Saccharomyces cerevisiae as a model organism for the cytoskeleton and cell biology. Drubin D. **Cell Motil Cytoskeleton** 1989;14(1):42–9 (53 ref.)

Role of the cytoskeleton during injury-induced cell migration in corneal endothelium. Gordon SR, et al. **Cell Motil Cytoskeleton** 1990;16(1):47–57

Functions of intermediate filaments. Klymkowsky MW, et al. **Cell Motil Cytoskeleton** 1989;14(3):309–31 (216 ref.)

Roles of microfilaments in exocytosis: a new hypothesis. Segawa A, et al. **Cell Struct Funct** 1989 Oct;14(5):531–44

Actin cytoskeleton and calcium–ATPase in the process of abomasal mucus secretion in cattle. Schessner M, et al. **Cell Tissue Res** 1990 Apr;260(1):109–16

Neurohormonal control of calcium sensitivity of myofilaments in rat single heart cells. Puceat M, et al. **Circ Res** 1990 Aug;67(2):517–24

The cytoskeleton of Saccharomyces cerevisiae. Barnes G, et al. **Curr Opin Cell Biol** 1990 Feb;2(1):109–15 (21 ref.)

Cytoskeleton and embryo polarity. Elinson RP. **Curr Opin Cell Biol** 1990 Feb;2(1):75–9 (22 ref.)

Cytoskeleton–associated cell contacts. Geiger B. **Curr Opin Cell Biol** 1989 Feb;1(1):103–9 (33 ref.)

The function of the major cytoskeletal components of the brush border. Louvard D. **Curr Opin Cell Biol** 1989 Feb; 1(1):51–7 (22 ref.)

The spectrin membrane skeleton: emerging concepts. Morrow JS. **Curr Opin Cell Biol** 1989 Feb;1(1):23–9 (34 ref.)

Cytokinesis in animal cells. Salmon ED. **Curr Opin Cell Biol** 1989 Jun;1(3):541–7 (29 ref.)

Genetic approaches to cytoskeleton function and the control of cell motility. Segall JE, et al. **Curr Opin Cell Biol** 1989 Feb;1(1):44–50 (13 ref.)

Microfilament-based motility in non-muscle cells. Small JV. **Curr Opin Cell Biol** 1989 Feb;1(1):75–9 (19 ref.)

Molecular genetics: a key to the cytoskeleton's closet. Titus MA, et al. **Curr Opin Cell Biol** 1990 Feb;2(1):116–20 (16 ref.)

Involvement of microtubules and microfilaments in the control of the nuclear movement during maturation of mouse oocyte. Alexandre H, et al. **Dev Biol** 1989 Dec; 136(2):311–20

Transduction of the chemotactic signal to the actin cytoskeleton of Dictyostelium discoideum. Hall AL, et al. **Dev Biol** 1989 Dec;136(2):517–25

Brief cytochalasin-induced disruption of microfilaments during a critical interval in 1-cell C. elegans embryos alters the partitioning of developmental instructions to the 2-cell embryo. Hill DP, et al. **Development** 1990 Jan;108(1):159–72

Changing patterns of cytokeratins and vimentin in the early chick embryo. Page M. **Development** 1989 Jan; 105(1):97–107

Early innervation of the metanephric kidney. Sariola H, et al. **Development** 1988 Dec;104(4):589–99

The process of localizing a maternal messenger RNA in Xenopus oocytes. Yisraeli JK, et al. **Development** 1989;107 Suppl:31–6

Dynamics of the cytoskeleton in Amoeba proteus. III. Influence of microinjected antibodies on the organization and function of the microfilament system. Brix K, et al. **Eur J Cell Biol** 1990 Apr;51(2):279–84

Determination of apical membrane polarity in mammary epithelial cell cultures: the role of cell–cell, cell–substratum, and membrane–cytoskeleton interactions. Parry G, et al. **Exp Cell Res** 1990 Jun;188(2):302–11

Actin gene expression in murine erythroleukemia cells treated with cytochalasin D. Sympson CJ, et al. **Exp Cell Res** 1990 Jul;189(1):28–32

The role of the cytoskeleton in aging. Rao KM, et al. **Exp Gerontol** 1990;25(1):7–22 (175 ref.)

Role of cytokeratin intermediate filaments in transhepatic transport and canalicular secretion. Kawahara H, et al. **Hepatology** 1990 Mar;11(3):435–48

Distribution of microtubules and microfilaments in thyroid follicular epithelial cells of normal, TSH-treated, aged, and hypophysectomized rats. Kurihara H, et al. **Histochemistry** 1990;93(4):335–45

On the assembly mechanism of neurofilaments. Tokutake S. **Int J Biochem** 1990;22(1):1–6 (32 ref.)

Cytoskeleton organization during oogenesis, fertilization and preimplantation development of the mouse. Maro B, et al. **Int J Dev Biol** 1990 Mar;34(1):127–37 (76 ref.)

In vitro motility of skeletal muscle myosin and its proteolytic fragments. Takiguchi K, et al. **J Biochem (Tokyo)** 1990 May;107(5):671–9

The positive inotropic effect of pimobendan involves stereospecific increases in the calcium sensitivity of cardiac myofilaments. Solaro RJ, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 2:S7–12

19th annual UCLA symposium: Cytoskeleton and cell regulation. Abstracts. **J Cell Biochem Suppl** 1990; 14A:201–47

Mechanism of the formation of contractile ring in dividing cultured animal cells. I. Recruitment of preexisting actin filaments into the cleavage furrow. Cao LG, et al. **J Cell Biol** 1990 Apr;110(4):1089–95

Elastic behavior of connectin filaments during thick filament movement in activated skeletal muscle. Horowits R, et al. **J Cell Biol** 1989 Nov;109(5):2169–76

Bundling of actin filaments by alpha-actinin depends on its molecular length. Meyer RK, et al. **J Cell Biol** 1990 Jun; 110(6):2013–24

Subtilisin cleavage of actin inhibits in vitro sliding movement of actin filaments over myosin. Schwyter DH, et al. **J Cell Biol** 1990 Aug;111(2):465–70

The activation dependent adhesion of macrophages to laminin involves cytoskeletal anchoring and phosphorylation of the alpha 6 beta 1 integrin. Shaw LM, et al. **J Cell Biol** 1990 Jun;110(6):2167–74

Smooth muscle myosin cross-bridge interactions modulate actin filament sliding velocity in vitro. Warshaw DM, et al. **J Cell Biol** 1990 Aug;111(2):453–63

Substratum-induced stress fiber assembly in vascular endothelial cells during spreading in vitro. Yost JC, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):507–20

Maturation of the corpus callosum of the rat: I. Influence of thyroid hormones on the topography of callosal projections. Gravel C, et al. **J Comp Neurol** 1990 Jan 1; 291(1):128–46

Effects of electric fields on fibroblast contractility and cytoskeleton. Harris AK, et al. **J Exp Zool** 1990 Feb; 253(2):163–76

The role of microfilaments and microtubules in apical growth and dimorphism of Candida albicans. Yokoyama K, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1067–75

Co-operative activation of skeletal muscle thin filaments by rigor crossbridges. The effect of troponin C extraction. Brandt PW, et al. **J Mol Biol** 1990 Apr 5;212(3):473–80

Development of ion channels and neurofilaments during neuronal differentiation of mouse embryonal carcinoma cell lines. Kubo Y. **J Physiol (Lond)** 1989 Feb;409:497–523

Mitochondria-cytoskeleton interactions in the sperm midpiece. Olson GE, et al. **J Struct Biol** 1990 Mar; 103(1):13–22

Behaviour of the crossbridges in stretched or compressed muscle fibres. Bachouchi N, et al. **J Theor Biol** 1989 Nov 21;141(2):143–57

A mechanism of formation of protein-free regions in the red cell membrane: the rupture of the membrane skeleton. Kozlov MM, et al. **J Theor Biol** 1990 Jun 7;144(3):347–65

Cortical cytoskeleton of giant moth eggs. Jarnot B, et al. **Mol Reprod Dev** 1988;1(1):35–48

Dimethylsulphoxide affects the organisation of microfilaments in the mouse oocyte. Vincent C, et al. **Mol Reprod Dev** 1990 Jul;26(3):227–35

Actin-binding proteins. Cytoskeletal ups and downs [published erratum appears in Nature 1990 Apr 5;344(6266):488] Way M, et al. **Nature** 1990 Mar 22; 344(6264):292–4 (20 ref.)

Cytoskeletal dynamics and nerve growth. Mitchison T, et al. **Neuron** 1988 Nov;1(9):761–72 (84 ref.)

Role of arachidonic acid metabolites and cytoskeleton components in the mechanism of action of corticotropic factors. Feuilloley M, et al. **Prog Clin Biol Res** 1990; 342:133–8 (19 ref.)

Cytoskeletal elements and calcium: do they play a role in the Escherichia coli cell cycle? Holland IB, et al. **Res Microbiol** 1990 Jan;141(1):131–6 (38 ref.)

Intermediate filaments in biology and disease. **Revis Biol Celular** 1989;22:1–80 (519 ref.)

Cytoskeletal involvement in spermiation and sperm transport. Russell LD, et al. **Tissue Cell** 1989;21(3):361–79

Coordinated regulation of morphological and biochemical differentiation in a steroidogenic cell: the granulosa cell model. Amsterdam A, et al. **Trends Biochem Sci** 1989 Sep; 14(9):377–82 (43 ref.)

Ankyrin and the node of Ranvier. Baines AJ. **Trends Neurosci** 1990 Apr;13(4):119–21 (37 ref.)

Calcium and polyphosphoinositide control of cytoskeletal dynamics. Forscher P. **Trends Neurosci** 1989 Nov; 12(11):468–74 (42 ref.)

Phenotype modulation in primary cultures of rat aortic smooth muscle cells. Effects of drugs that interfere with the functions of the vacuolar system and the cytoskeleton. Thyberg J, et al. **Virchows Arch [B]** 1990;59(1):1–10

Role of the endothelial actin filament cytoskeleton in rheology and permeability. Schnittler H, et al. **Z Kardiol** 1989;78 Suppl 6:1–4

[Cytoskeletal principles of the functional organization of cells] Nečas O. **Cas Lek Cesk** 1990 Feb 16;129(7):193–7 (Eng. Abstr.) **(Cze)**

[Axonal cytoskeleton] Arai T, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1704–14 **(Jpn)**

[Structure and function of stress fibers] Fujiwara K. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1513–23 **(Jpn)**

[Cell polarity and cytoskeleton] Ishikawa H. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1742–8 **(Jpn)**

[Molecular functions of cytoskeletons] Sakai H. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1421–8 **(Jpn)**

[Roles of submembranous cytoskeleton and its regulatory mechanism] Sobue K, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1551–65 **(Jpn)**

[Roles of microfilaments and microtubules in morphogenesis of multicellular animals] Takeuchi S. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1749–56 **(Jpn)**

[Organization of cytoskeletal proteins in slow axonal transport] Tashiro T. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1715–24 **(Jpn)**

[The structure of the cytoskeleton and its role during platelet activation] Cierniewski CS, et al. **Postepy Hig Med Dosw** 1989;43(1):71–92 (96 ref.) **(Pol)**

[The capping of receptors for the epidermal growth factor and the participation of the cytoskeleton in this process in A-431 cells] Khrebtukova IA, et al. **Tsitologiia** 1989 Oct; 31(10):1211–20 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Prenatal low-dose gamma irradiation of the inner ear induces changes in the expression of intermediate filaments. Anniko M, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct; 108(3–4):206–16

[The CNS syndrome. The characteristics of the intermediate filaments of the rat brain] Nedzvetskiĭ VS, et al. **Radiobiologiia** 1990 Mar–Apr;30(2):243–6 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Cytoskeletal alterations in the microvilli of uterine epithelial cells during early pregnancy. Luxford KA, et al. **Acta Histochem (Jena)** 1989;87(2):131–6

Effects of tumor promoter 12-O-tetradecanoyl-phorbol-13-acetate on morphology and anchorage-independent growth of normal and established chick embryo cells. Ogura H, et al. **Acta Med Okayama** 1989 Aug;43(4):249–52

Structural and molecular polarity in retinal photoreceptor neurons: roles for the cytoskeleton. Adler R, et al. **Adv Exp Med Biol** 1990;265:147–56 (31 ref.)

Reduced myelinated fiber size correlates with loss of axonal neurofilaments in peripheral nerve of chronically streptozotocin diabetic rats. Yagihashi S, et al. **Am J Pathol** 1990 Jun;136(6):1365–73

Cytoskeletal heterogeneity of an epithelioid sarcoma with expression of vimentin, cytokeratins, and neurofilaments. Gerharz CD, et al. **Am J Surg Pathol** 1990 Mar; 14(3):274–83

Dissimilar expression of axonemal anomalies in respiratory cilia and sperm flagella in infertile men. Escudier E, et al. **Am Rev Respir Dis** 1990 Sep;142(3):674–9

Preparation and characterization of mitotic cytoskeletons from embryos of the sea urchin Strongylocentrotus franciscanus. Leslie RJ, et al. **Anal Biochem** 1989 Aug 15; 181(1):51–8

Transient cytokeratin expression in skeletal muscle during murine embryogenesis. Kosmehl H, et al. **Anat Anz** 1990; 171(1):39–44

Changes in the arrangement of actin bundles during heart looping in the chick embryo. Itasaki N, et al. **Anat Embryol (Berl)** 1989;180(5):413–20

Ultrastructure of cytoskeletal elements of endothelial and stromal cells of rat marrow. Campbell FR. **Anat Rec** 1990 Jun;227(2):152–8

Cytoskeletal organization and synthesis in substrate-independent and -dependent myogenesis in chick embryos. Daniels KJ, et al. **Anat Rec** 1990 Jun; 227(2):254–63

Microfibrillar meshwork of the synovial lining and associated broad banded collagen: a clue to identity. Levick JR, et al. **Ann Rheum Dis** 1990 Jan;49(1):31–6

Cytoskeletal reorganization induced by nerve growth factor and glia maturation factor in anaplastic glioma cells. Marushige Y, et al. **Anticancer Res** 1989 Jul–Aug; 9(4):1143–8

Distribution of intermediate filaments in epithelial cells of the amphibian urinary bladder: an immunofluorescence study. Dabiké M, et al. **Arch Biol Med Exp (Santiago)** 1989 Jul;22(2):83–8

Endothelial monolayer integrity. Perturbation of F-actin filaments and the dense peripheral band–vinculin network. Wong MK, et al. **Arterioscler Suppl** 1990 Jan–Feb;10(1):76–84

The distribution of microfilament bundles in rabbit endothelial cells in the intact aorta and during wound healing in situ. Rogers KA, et al. **Biochem Cell Biol** 1989 Sep;67(9):553–62

Characterization of two proteolytically derived soluble polypeptides from the neurofilament triplet components NFM and NFH. Chin TK, et al. **Biochem J** 1989 Nov

15;264(1):53–60
Organization of actin microfilaments in the apical border of oviduct ciliated cells. Chailley B, et al. **Biol Cell** 1989; 67(1):81–90
Microtubules and actin microfilaments in the amphibian bladder granular cells. Hugon JS, et al. **Biol Cell** 1989; 66(1–2):77–84
Effect of cytoskeletal geometry on intracellular diffusion. Blum JJ, et al. **Biophys J** 1989 Nov;56(5):995–1005
Alteration of the erythrocyte membrane skeletal ultrastructure in hereditary spherocytosis, hereditary elliptocytosis, and pyropoikilocytosis. Liu SC, et al. **Blood** 1990 Jul 1;76(1):198–205
Ultracentrifugal analysis of the junction complexes of the red cell membrane cytoskeletal network: application to hereditary spherocytosis and metabolically depleted cells. Morris SA, et al. **Blut** 1989 Oct;59(4):385–9
Expression of neurofilaments in a neoplastic human salivary intercalated duct cell line or its derivatives and effect of nerve growth factor on the cellular proliferation and phenotype. Iga H, et al. **Cancer Res** 1989 Dec 1; 49(23):6708–19
Functions of the myosin ATP and actin binding sites are required for C. elegans thick filament assembly. Bejsovec A, et al. **Cell** 1990 Jan 12;60(1):133–40
Intermediate filament reorganization during mitosis is mediated by p34cdc2 phosphorylation of vimentin. Chou YH, et al. **Cell** 1990 Sep 21;62(6):1063–71
Microinjection of p34cdc2 kinase induces marked changes in cell shape, cytoskeletal organization, and chromatin structure in mammalian fibroblasts. Lamb NJ, et al. **Cell** 1990 Jan 12;60(1):151–65
Retrovirus-mediated transgenic keratin expression in cultured fibroblasts: specific domain functions in keratin stabilization and filament formation. Lu X, et al. **Cell** 1990 Aug 24;62(4):681–96
Localization of newly synthesized vimentin subunits reveals a novel mechanism of intermediate filament assembly. Ngai J, et al. **Cell** 1990 Feb 9;60(3):415–27
Limitation of substratum size alters cytoskeletal organization and behaviour of Swiss 3T3 fibroblasts. Ireland GW, et al. **Cell Biol Int Rep** 1989 Sep;13(9):781–90
The podosomes of Rous sarcoma virus transformed chondrocytes show a peculiar ultrastructural organization. Nitsch L, et al. **Cell Biol Int Rep** 1989 Nov;13(11):919–26
The cytoskeletal system of mammalian primitive erythrocytes: studies in developing marsupials. Cohen WD, et al. **Cell Motil Cytoskeleton** 1990;16(2):133–45
Assembly of the brush border cytoskeleton: changes in the distribution of microvillar core proteins during enterocyte differentiation in adult chicken intestine. Heintzelman MB, et al. **Cell Motil Cytoskeleton** 1990;15(1):12–22
Ultrastructural cytoskeleton alterations and modification of actin expression in the NIH/3T3 cell line after transformation with Ha-ras-activated oncogene. Lombardi L, et al. **Cell Motil Cytoskeleton** 1990;15(4):220–9
Immunofluorescence evidence for cytoskeletal rearrangement accompanying pigment redistribution in goldfish xanthophores. Walker GR, et al. **Cell Motil Cytoskeleton** 1989;14(4):458–68
Organization and disorganization of actin filaments in human epidermal keratinocytes: heat-shock treatment and recovery process. Kitano Y, et al. **Cell Tissue Res** 1990 Aug;261(2):269–74
Ultrastructural and immunocytochemical studies on the cytoskeleton in the anterior pituitary of rats, with special regard to the relationship between actin filaments and secretory granules. Senda T, et al. **Cell Tissue Res** 1989 Oct;258(1):25–30
The role of axonemal components in ciliary motility. Satir P. **Comp Biochem Physiol [A]** 1989;94(2):351–7 (50 ref.)
The plant cytoskeleton. Lloyd CW. **Curr Opin Cell Biol** 1989 Feb;1(1):30–5 (26 ref.)
Intermediate filaments. Robson RM. **Curr Opin Cell Biol** 1989 Feb;1(1):36–43 (30 ref.)
Intermediate filaments: structure, assembly and molecular interactions. Stewart M. **Curr Opin Cell Biol** 1990 Feb; 2(1):91–100 (17 ref.)
Integrin-type fibronectin receptors of rat arterial smooth muscle cells: isolation, partial characterization and role in cytoskeletal organization and control of differentiated properties. Bottger BA, et al. **Differentiation** 1989 Aug; 41(2):158–67
Cytokeratin filaments are present in golden hamster oocytes and early embryos. Plancha CE, et al. **Differentiation** 1989 Oct;42(1):1–9
On the mechanism of cell internalization of chrysotile fibers: an immunocytochemical and ultrastructural study. Malorni W, et al. **Environ Res** 1990 Aug;52(2):164–77
Regional variations in the expression of cytokeratin proteins in the adult human cochlea. Anniko M, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):182–8
A cytoskeletal spring for the control of cell shape in outer hair cells isolated from the guinea pig cochlea. Holley MC, et al. **Eur Arch Otorhinolaryngol** 1990;247(1):4–7
Vinculin is a permanent component of the membrane skeleton and is incorporated into the (re)organising cytoskeleton upon platelet activation. Asijee GM, et al. **Eur J Biochem** 1990 Apr 20;189(1):131–6
pp60v-src association with the cytoskeleton induces actin reorganization without affecting polymerization status. Felice GR, et al. **Eur J Cell Biol** 1990 Jun;52(1):47–59
Coalignment of microtubules, cytokeratin intermediate filaments, and collagen fibrils in a collagen-secreting cell system. McBeath E, et al. **Eur J Cell Biol** 1989 Dec; 50(2):510–21
Ultrastructural analysis of cytoplasmic intermediate filaments and the nuclear lamina in the mouse plasmacytoma cell line MPC-11 after the induction of vimentin synthesis. Wang X, et al. **Eur J Cell Biol** 1989 Dec;50(2):462–74
Microfilament organization correlates with increased cellular content of gelsolin. Banyard MR, et al. **Exp Cell Res** 1990 Mar;187(1):180–3
Selective accumulation of IF proteins at a focal juxtanuclear site in COS-1 cells transfected with mouse keratin 18 cDNA. Blouin R, et al. **Exp Cell Res** 1990 Apr; 187(2):234–42
Nerve growth factor-induced rapid reorganization of microfilaments in PC12 cells: possible roles of different second messenger systems. Paves H, et al. **Exp Cell Res** 1990 Feb;186(2):218–26
Actin cytoskeleton of resting bovine platelets. Takeuchi K, et al. **Exp Cell Res** 1990 Feb;186(2):374–80
Actin cytoskeleton of extraembryonic endoderm and teratocarcinoma-derived endoderm cells. Tienari J. **Exp Cell Res** 1989 Oct;184(2):388–95
A hyaluronan-binding protein shows a partial and temporally regulated codistribution with actin on locomoting chick heart fibroblasts. Turley EA, et al. **Exp Cell Res** 1990 Apr; 187(2):243–9
The cytoskeleton of stromal cells from human bone marrow cultures resembles that of cultured smooth muscle cells. Charbord P, et al. **Exp Hematol** 1990 May;18(4):276–82
Surface blebbing and cytoskeletal changes induced in vitro by toxin B from Clostridium difficile: an immunochemical and ultrastructural study. Malorni W, et al. **Exp Mol Pathol** 1990 Jun;52(3):340–56
Interaction of alpha-actinin and nebulin in vitro. Support for the existence of a fourth filament system in skeletal muscle. Nave R, et al. **FEBS Lett** 1990 Aug 20;269(1):163–6
Imaging of cell membraneous and cytoskeletal structures with a scanning tunneling microscope. Ruppersberg JP, et al. **FEBS Lett** 1989 Nov 6;257(2):460–4
Neuronal markers in the rodent pineal gland—an immunohistochemical investigation. Schröder H, et al. **Histochemistry** 1990;94(3):309–14
Cytoarchitecture of ras oncogene-expressing tumor cells: butyrate modulation of substrate adhesion, cytoskeletal actin content and subcellular microfilament distribution. Higgins PJ, et al. **Int J Biochem** 1989;21(10):1143–51
Failure of differentiation of the nuclear-perinuclear skeletal complex in the round-headed human spermatozoa. Escalier D. **Int J Dev Biol** 1990 Jun;34(2):287–97
Chorangioma. A cytoskeletal profile. Lifschitz-Mercer B, et al. **Int J Gynecol Pathol** 1989;8(4):349–56
Effects of hyperthermia on the cytoskeleton and cell survival in G1 and S phase Chinese hamster ovary cells. Wachsberger PR, et al. **Int J Hyperthermia** 1990 Jan-Feb; 6(1):67–85
Intermediate filaments and neural cell differentiation. Fedoroff S, et al. **Int J Neurol** 1982–83;16–17:30–45 (109 ref.)
Distribution and function of organized concentrations of actin filaments in mammalian spermatogenic cells and Sertoli cells. Vogl AW. **Int Rev Cytol** 1989;119:1–56 (139 ref.)
Cytoskeletal redifferentiation of feline, monkey, and human RPE cells in culture. Matsumoto B, et al. **Invest Ophthalmol Vis Sci** 1990 May;31(5):879–89
Malignant mesenchymoma of spermatic cord: a case report with intermediate filament typing. Guy MS, et al. **Isr J Med Sci** 1989 Dec;25(12):702–5
The cytoskeleton of cultured skin fibroblasts from patients with Huntington's chorea. Meek WD. **J Am Osteopath Assoc** 1990 Mar;90(3):241–53
A confocal and conventional epifluorescence microscope study of the intermediate filaments in chorionic villi. Bradbury FM, et al. **J Anat** 1990 Apr;169:173–87
Calcium-dependent regulation of actin filament bundling by lipocortin-85. Ikebuchi NW, et al. **J Biol Chem** 1990 Feb 25;265(6):3392–400
Length distribution of F-actin in Dictyostelium discoideum. Podolski JL, et al. **J Biol Chem** 1990 Jan 25;265(3):1312–8
The two-chain coiled-coil molecule of native epidermal keratin intermediate filaments is a type I-type II heterodimer. Steinert PM. **J Biol Chem** 1990 May 25; 265(15):8766–74
Organization of osteoclast microfilaments during the attachment to bone surface in vitro. Lakkakorpi P, et al. **J Bone Miner Res** 1989 Dec;4(6):817–25
The cytoskeleton of arterial smooth muscle cells during development, atheromatosis, and tissue culture. Rubbia L, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 6:S9–11
Epidermal growth factor-induced selective phosphorylation of cultured rat hepatocyte 55-kD cytokeratin before filament reorganization and DNA synthesis. Baribault H, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1665–76
Cytoskeletal control of centrioles movement during the establishment of polarity in Madin-Darby canine kidney cells. Buendia B, et al. **J Cell Biol** 1990 Apr;110(4):1123–35
A protein antigenically related to nuclear lamin B mediates the association of intermediate filaments with desmosomes. Cartaud A, et al. **J Cell Biol** 1990 Aug;111(2):581–8
Elucidating the early stages of keratin filament assembly. Coulombe PA, et al. **J Cell Biol** 1990 Jul;111(1):153–69
Differential extraction of keratin subunits and filaments from normal human epidermis. Eichner R, et al. **J Cell Biol** 1990 Apr;110(4):1149–68
Protein phosphatase type-1, not type-2A, modulates actin microfilament integrity and myosin light chain phosphorylation in living nonmuscle cells. Fernandez A, et al. **J Cell Biol** 1990 Jul;111(1):103–12
Structure and function of the cytoskeleton of a Dictyostelium myosin-defective mutant. Fukui Y, et al. **J Cell Biol** 1990 Feb;110(2):367–78
Elastic filaments in skeletal muscle revealed by selective removal of thin filaments with plasma gelsolin. Funatsu T, et al. **J Cell Biol** 1990 Jan;110(1):53–62
The role of cytoskeleton in organizing growth cones: a microfilament-associated growth cone component depends upon microtubules for its localization. Goslin K, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1621–31
Cytoskeletal distribution and function during the maturation and enucleation of mammalian erythroblasts. Koury ST, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):3005–13
Identification of protein IT of the intestinal cytoskeleton as a novel type I cytokeratin with unusual properties and expression patterns. Moll R, et al. **J Cell Biol** 1990 Aug; 111(2):567–80
Identification of a membrane-cytoskeletal complex containing the cell adhesion molecule uvomorulin (E-cadherin), ankyrin, and fodrin in Madin-Darby canine kidney epithelial cells. Nelson WJ, et al. **J Cell Biol** 1990 Feb;110(2):349–57
A 39-kD plasma membrane protein (IP39) is an anchor for the unusual membrane skeleton of Euglena gracilis. Rosiere TK, et al. **J Cell Biol** 1990 Apr;110(4):1077–88
Actin filaments and the growth, movement, and spread of the intracellular bacterial parasite, Listeria monocytogenes. Tilney LG, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1597–608
Preliminary biochemical characterization of the stereocilia and cuticular plate of hair cells of the chick cochlea. Tilney MS, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1711–23
A new 400-kD protein from isolated adherens junctions: its localization at the undercoat of adherens junctions and at microfilament bundles such as stress fibers and circumferential bundles. Tsukita S, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2905–15
Variation in cytoplasmic microtubule organization and spindle length between the two forms of the dimorphic fungus Candida albicans. Barton R, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):211–20
Aggregation of membrane-associated actin filaments following localized adherence of enteropathogenic Escherichia coli to HeLa cells. da Silva ML, et al. **J Cell Sci** 1989 Jul;93 (Pt 3):439–46
Rearrangement of the cytoskeleton and nuclear transfer in Tetrahymena thermophila cells fused by electric field. Gaertig J, et al. **J Cell Sci** 1989 Aug;93 (Pt 4):691–703
The cytoskeletal elements of human retinal pigment epithelium: in vitro and in vivo. McKechnie NM, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):303–12
A filamentous network surrounding secretory granules from mast cells. Nielsen EH. **J Cell Sci** 1990 May;96 (Pt 1):43–6
Quick-freeze, deep-etch, rotary-shadow views of the extracellular matrix and cortical cytoskeleton of Xenopus laevis eggs. Larabell CA, et al. **J Electron Microsc Tech** 1989 Nov;13(3):228–43
Transmission electron microscopy of the cytoskeleton of migratory and invasive cells. McGarvey T, et al. **J Electron Microsc Tech** 1989 Nov;13(3):272–3
Three-dimensional studies of cytoskeletal organizations in cultured thyroid cells by quick-freezing and deep-etching method. Ohno S, et al. **J Electron Microsc (Tokyo)** 1989; 38(5):352–62
A method for visualizing cytoskeletal structures by the scanning electron microscope. Takahashi I, et al. **J Electron Microsc (Tokyo)** 1989;38(4):242–5
The effect of Chlamydia trachomatis infection on the host cell cytoskeleton and membrane compartments. Campbell S, et al. **J Gen Microbiol** 1989 Sep;135 (Pt 9):2379–86
Membrane Ig-cytoskeletal interactions. III. Receptor cross-linking results in the formation of extensive filamentous arrays of vimentin. Albrecht DL, et al. **J Immunol** 1990 May 1;144(9):3251–6
Influenza A virus alters structural and biochemical functions of the neutrophil cytoskeleton. Wheeler JG, et al. **J Leukoc Biol** 1990 Apr;47(4):332–43
Asymmetric distribution of actin mRNA and cytoskeletal pattern generation in polarized epithelial cells. Cheng H, et al. **J Mol Biol** 1989 Dec 5;210(3):541–9
Molecular architecture of the neurofilament. I. Subunit arrangement of neurofilament L protein in the intermediate-sized filament. Hisanaga S, et al. **J Mol Biol** 1990 Feb 20;211(4):857–69
Molecular architecture of the neurofilament. II. Reassembly process of neurofilament L protein in vitro. Hisanaga S, et al. **J Mol Biol** 1990 Feb 20;211(4):871–82
Cryo-electron microscopic studies of relaxed striated muscle thick filaments. Menetret JF, et al. **J Muscle Res Cell Motil** 1990 Feb;11(1):1–11
Striated muscle tropomyosin-enriched microfilaments of developing muscles of chicken embryos. Wang SM, et al. **J Muscle Res Cell Motil** 1990 Jun;11(3):191–202
Purification and solubilization of paired helical filaments from Alzheimer brains. Vogelsang GD, et al. **J Neurochem** 1990 Jan;54(1):148–55

Bundling and cross-linking of intermediate filaments of the nervous system. Shaw G, et al. **J Neurosci Res** 1990 Apr; 25(4):561–8

Cytochemical detection of disulfide and sulfhydryl groups in lamprey aortic microfibrils. Isokawa K. **J Nihon Univ Sch Dent** 1990 Jun;32(2):81–92

A simple method for freeze-drying of macromolecules and macromolecular complexes. Loesser KE, et al. **J Struct Biol** 1990 Mar;103(1):48–56

Organization of intermediate filaments and their association with collagen-containing phagosomes in mouse decidual cells. Zorn TM, et al. **J Struct Biol** 1990 Mar;103(1):23–33

Differentiation repertoire of fibroblastic cells: expression of cytoskeletal proteins as marker of phenotypic modulations. Sappino AP, et al. **Lab Invest** 1990 Aug;63(2):144–61 (160 ref.)

Further studies on the cytoskeleton of resident, stimulated and activated macrophages. del Caro LM, et al. **Microsc Electron Biol Celular** 1989 Jun;13(1):1–17

The red cell skeleton and its genetic disorders. Delaunay J, et al. **Mol Aspects Med** 1990;11(3):161–241 (397 ref.)

Role of adenovirus E1B proteins in transformation: altered organization of intermediate filaments in transformed cells that express the 19-kilodalton protein. White E, et al. **Mol Cell Biol** 1990 Jan;10(1):120–30

Different cytoskeletal organization in two maturation stages of Discoglossus pictus (Anura) oocytes: thickness and stability of actin microfilaments and tropomyosin immunolocalization. Campanella C, et al. **Mol Reprod Dev** 1990 Feb;25(2):130–9

Production and characterization of monoclonal antibodies to the mammalian sperm cytoskeleton. MacRae TH, et al. **Mol Reprod Dev** 1990 Apr;25(4):384–92

Disruption of the actin cytoskeleton in yeast capping protein mutants. Amatruda JF, et al. **Nature** 1990 Mar 22; 344(6264):352–4

Ubiquitinated filamentous inclusions in spinal cord of patients with motor neuron disease. Migheli A, et al. **Neurosci Lett** 1990 Jun 22;114(1):5–10

Skeletal muscle extracts promote the survival of neurofilament-positive mammalian sensory neurons. Valmier J, et al. **Neurosci Lett** 1990 Jun 22;114(1):39–44

Association of polyoma virus middle T antigen and pp60src with cytoskeletal elements. Ballmer-Hofer K, et al. **Oncogene** 1988 Oct;3(4):365–71

Lacunar dilatations of intrafusal and extrafusal terminal cisternae, annulate lamellae, confronting cisternae and tubulofilamentous inclusions within the spectrum of muscle and nerve fiber changes in myotonic dystrophy. Dieler R, et al. **Pathol Res Pract** 1990 Jun;186(3):371–82

Cytoskeletal reorganizations responsible for the phorbol ester-induced formation of cytoplasmic processes: possible involvement of intermediate filaments. Bershadsky AD, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1884–8

Neuronal potentialities of cells in the optic nerve of the chicken embryo are revealed in culture. Giess MC, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1643–7

A preparation of Alzheimer paired helical filaments that displays distinct tau proteins by polyacrylamide gel electrophoresis. Greenberg SG, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5827–31

Disruption of microfilament organization in living nonmuscle cells by microinjection of plasma vitamin D-binding protein or DNase I. Sanger JM, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5474–8

Specific disruption of intermediate filaments and the nuclear lamina by the 19-kDa product of the adenovirus E1B oncogene. White E, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9886–90

Mallory bodies in hepatomas and hyperplastic nodules: in vitro and in vivo studies. Cadrin M, et al. **Prog Clin Biol Res** 1990;331:231–48

Effects of extracellular matrix on cytoskeletal and myofibrillar organization in vitro. Hilenski LL, et al. **Scanning Microsc** 1989 Jun;3(2):535–48

Problems associated with the preparation of whole mounts of cytoskeletons for high resolution electron microscopy. Bell PB Jr, et al. **Scanning Microsc Suppl** 1989;3:117–34; discussion 134–5 (107 ref.)

Structure and function of the platelet membrane skeleton. Fox JE, et al. **Soc Gen Physiol Ser** 1988;43:111–23 (39 ref.)

The expression of intermediate filaments in canine mammary glands and their tumors. Hellmén E, et al. **Vet Pathol** 1989 Sep;26(5):420–8

Sequential disassembly of the cytoskeleton in BHK21 cells infected with vesicular stomatitis virus. Simon KO, et al. **Virology** 1990 Jul;177(1):289–97

[The intermediate filament-lamina-nuclear matrix system of BHK-21 cells] Wu DI, et al. **Shih Yen Sheng Wu Hsueh Pao** 1990 Mar;23(1):71–81 (Eng. Abstr.) (Chi)

[Pathology of the cytoskeleton in degenerative dementias] Brion JP, et al. **Acta Neurol Belg** 1989 May-Oct; 89(3-4):266–73 (Fre)

[Ultrastructural aspects in the development of the human heart. I. The cytoskeleton and motility of human embryonic myocardiocytes] Cotrutz C, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Apr-Jun;93(2):325–8 (Eng. Abstr.) (Fre)

[The cytokeratin skeleton of the human organ of Corti and its functional significance] Arnold W, et al. **Laryngorhinootologie** 1990 Jan;69(1):24–30 (Eng. Abstr.) (Ger)

[Intermediate filament patterns of the nephron and the urothelium] Moll R. **Verh Dtsch Ges Pathol** 1989;73:314–20 (Eng. Abstr.) (Ger)

[Maturation and aging of elastic fibers] Stadler R. **Z Hautkr** 1989 Nov 15;64(11):952–6, 961 (23 ref.) (Eng. Abstr.) (Ger)

[The role of protein phosphorylation in the organization of the neuronal cytoskeleton] Barylko B. **Postepy Biochem** 1989;35(3):279–94 (111 ref.) (Pol)

[The localization of the components of the extracellular matrix and cytoskeleton in myocardial biopsies in alcoholic cardiomyopathy] Rukosuev VS, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):88–94 (Eng. Abstr.) (Rus)

[The cytoskeletal organization of epithelial cells in culture] Svitkina TM. **Tsitologiia** 1989 Dec;31(12):1435–40 (Eng. Abstr.) (Rus)

[Disorders of the actin cytoskeleton in transformed epithelial cells] Svitkina TM, et al. **Tsitologiia** 1989 Dec; 31(12):1441–7 (Eng. Abstr.) (Rus)

[Cytoskeletal changes in Alzheimer's disease and other neurodegenerative disorders] Astarloa R, et al. **Neurologia** 1990 Feb;5(2):52–61 (147 ref.) (Spa)

CYTOSOL

ANALYSIS

High-speed digital imaging of cytosolic Ca2+ and contraction in single cardiomyocytes. O'Rourke B, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H230–42

Tocopherol-binding proteins of hepatic cytosol. Kaplowitz N, et al. **Ann N Y Acad Sci** 1989;570:85–94 (10 ref.)

Intranuclear androgen and cytosolic receptor concentrations in the axillary skin of osmidrosis. Kurata S, et al. **Arch Dermatol Res** 1990;282(1):33–7

Use of fluo-3 to measure cytosolic Ca2+ in platelets and neutrophils. Loading cells with the dye, calibration of traces, measurements in the presence of plasma, and buffering of cytosolic Ca2+. Merritt JE, et al. **Biochem J** 1990 Jul 15;269(2):513–9

Thyroid hormone-inducible monoamine oxidase inhibitor in rat liver cytosol. Obata T, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):811–5

Cytosolic water-soluble phosphodiester in vertebrate lens. Burt CT, et al. **Biochim Biophys Acta** 1990 Feb 26; 1033(2):189–93

Uvomorulin-catenin complex: cytoplasmic anchorage of a Ca2+-dependent cell adhesion molecule. Kemler R, et al. **Bioessays** 1989 Oct;11(4):88–91 (14 ref.)

Lysosomal and cytosolic ferritins. A biochemical and electron-spectroscopic study. Ringeling PL, et al. **Biol Met** 1989;2(2):114–21

Assessment of Fura-2 for measurements of cytosolic free calcium. Roe MW, et al. **Cell Calcium** 1990 Feb-Mar; 11(2-3):63–73 (44 ref.)

Correlation between cytosolic free calcium, contracture, ATP, and irreversible ischemic injury in perfused rat heart. Steenbergen C, et al. **Circ Res** 1990 Jan;66(1):135–46

Measurement of cytosolic calcium using 19F NMR. Murphy E, et al. **Environ Health Perspect** 1990 Mar;84:95–8

Purification and characterization of angiotensin-binding protein from porcine liver cytosolic fraction. Hagiwara H, et al. **Eur J Biochem** 1989 Nov 6;185(2):405–10

Cytosolic and vacuolar Ca2+ concentrations in yeast cells measured with the Ca2+-sensitive fluorescence dye indo-1. Halachmi D, et al. **FEBS Lett** 1989 Oct 9; 256(1-2):55–61

A neutrophil GTP-binding protein that regulates cell free NADPH oxidase activation is located in the cytosolic fraction. Gabig TG, et al. **J Immunol** 1990 Aug 1; 145(3):945–51

Angiotensin II receptor-mediated stimulation of cytosolic-free calcium and inositol phosphates in chick myocytes. Baker KM, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):578–85

ATP-activated channels gate calcium entry in single smooth muscle cells dissociated from rabbit ear artery. Benham CD. **J Physiol (Lond)** 1989 Dec;419:689–701

The ras-like protein p25rab3A is partially cytosolic and is expressed only in neural tissue. Burstein E, et al. **Mol Cell Biol** 1989 Nov;9(11):4807–11

[Measurement of cytosolic free calcium using a fluorescent indicator] Karaki H. **Nippon Yakurigaku Zasshi** 1990 Jan; 95(1):Suppl 1–2 (Jpn)

[Peptides of fibrosarcoma induced by methylcholanthrene in rats] Gabryel H, et al. **Rocz Akad Med Bialymstoku** 1986–87;31–32:77–82 (Eng. Abstr.) (Pol)

[Sex differences in the level of cytosol estrogen receptors in the rat liver] Ignatenko LL, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):183–6 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Dendrotoxin and charybdotoxin increase the cytosolic concentration of free Ca2+ in cerebrocortical synaptosomes: an effect not shared by apamin. Tibbs GR, et al. **FEBS Lett** 1989 Sep 11;255(1):159–62

Mastoparan, a peptide toxin from wasp venom, stimulates glycogenolysis mediated by an increase of the cytosolic free Ca2+ concentration but not by an increase of cAMP in rat hepatocytes. Tohkin M, et al. **FEBS Lett** 1990 Jan 29;260(2):179–82

Cytosol and nuclear estrogen receptor binding in the preoptic area and hypothalamus of female rats during pregnancy and ovariectomized, nulliparous rats after steroid priming: correlation with maternal behavior. Giordano AL, et al. **Horm Behav** 1990 Jun;24(2):232–55

Bradykinin-evoked changes in cytosolic calcium and membrane currents in cultured bovine pulmonary artery endothelial cells. Cannell MB, et al. **J Physiol (Lond)** 1989 Dec;419:555–68

Effect of inotropic stimulation on cytosolic Mg2+ in isolated rat heart: a 31P magnetic resonance study. Headrick JP, et al. **Magn Reson Med** 1989 Dec;12(3):328–38

[Changes in the content of cytochrome P-450 and the activity of microsomal and cytosolic glutathione transferases in the liver of guinea pigs undergoing cutaneous application of various doses of mineral oil made from petroleum containing polycyclic aromatic hydrocarbons] Kravchenko MN, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):252–4 (Eng. Abstr.) (Rus)

ENZYMOLOGY

Stimulation by glycerate 2,3-bisphosphate: a common property of cytosolic purine 5'-nucleotidase in various tissues. Bontemps F, et al. **Adv Exp Med Biol** 1989; 253B:141–7

Inducible cytosolic enzyme activity for the production of nitrogen oxides from L-arginine in hepatocytes. Billiar TR, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1034–40

Production of myeloid cell cytosols functionally and immunochemically deficient in the 47 kDa or 67 kDa NADPH oxidase cytosolic factors. Levy R, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1114–20

Fructose-1,6-bisphosphate aldolase preferentially associates to glyceraldehyde-3-phosphate dehydrogenase in a mixture of cytosolic proteins as revealed by fluorescence energy transfer measurements. Tompa P, et al. **Biochem Int** 1990;20(3):487–94

Lack of translocation of protein kinase C from the cytosol to the membranes in vasopressin-stimulated hepatocytes. Díaz-Guerra MJ, et al. **Biochem J** 1990 Jul 1;269(1):163–8

Formation of an intramolecular cystine disulfide during the reaction of 8-azidoguanosine 5'-triphosphate with cytosolic phosphoenolpyruvate carboxykinase (GTP) causes inactivation without photolabeling. Lewis CT, et al. **Biochemistry** 1989 Nov 28;28(24):9248–55

Expression of UDP-glucuronosyltransferase cDNA in Saccharomyces cerevisiae as a membrane-bound and as a cytosolic form. Toghrol F, et al. **Biochemistry** 1990 Mar 6;29(9):2349–56

Immunolocalization of cytosolic aspartate aminotransferase (cAAT) in axon terminals that form synapses in the rat cerebellar cortex. A study at the electron microscopic level. Arenas Díaz G, et al. **Brain Res** 1990 May 14;516(1):77–83

Increased activities of cytosol aminopeptidase and lactate dehydrogenase in serum originate from lymphocytes in necrotizing lymphadenitis. Sugaya N, et al. **Clin Chem** 1990 Feb;36(2):304–6

Different patterns of leakage of cytosolic and mitochondrial enzymes. Kamiike W, et al. **Clin Chim Acta** 1989 Dec 15; 185(3):265–70

Energy dependence of cytosolic enzyme efflux from rat skeletal muscle. West-Jordan JA, et al. **Clin Chim Acta** 1990 Aug 15;189(2):163–72

Changes in hepatic cytosolic glutathione S-transferase enzymes induced by clotrimazole treatment in rats. González P, et al. **Clin Exp Pharmacol Physiol** 1989 Nov; 16(11):867–71

Inducibility of liver cytosolic aldehyde dehydrogenase activity in various animal species. Vasiliou V, et al. **Comp Biochem Physiol [C]** 1989;94(2):671–5

Purification and characterization of human kidney cytosolic cysteine conjugate beta-lyase activity. Lash LH, et al. **Drug Metab Dispos** 1990 Jan-Feb;18(1):50–4

Similarities between catalase and cytosolic epoxide hydrolase. Guenthner TM, et al. **Drug Metab Rev** 1989;20(2-4):733–48

Characterization of human placental cytosolic adenosine 3',5'-monophosphate phosphodiesterase by inhibitors and insulin treatment. Xiong LM, et al. **Endocrinology** 1990 Apr;126(4):2102–9

Phosphorylation of low molecular mass cytosolic proteins by protein kinase C and protein kinase A in the rabbit exocrine pancreas. Ederveen AG, et al. **Eur J Biochem** 1989 Nov 6;185(2):461–8

Purification and characterization of a cytosolic protein-tyrosine kinase from porcine spleen. Kobayashi T, et al. **Eur J Biochem** 1990 Mar 30;188(3):535–40

A guanyloribonuclease of mouse liver cytosol. Pantazaki A, et al. **Eur J Biochem** 1990 Aug 28;192(1):115–7

Estimation of the fractional catabolic rate constants for the elimination of cytosolic liver enzymes from plasma. Peltenburg HG, et al. **Hepatology** 1989 Nov;10(5):833–9

Adenosine deaminase activity of chicken erythrocyte and heart cytosols. Spivey DB, et al. **Int J Biochem** 1989; 21(6):645–8

Cytosolic NAD(P)H:(quinone-acceptor)oxidoreductase in human normal and tumor tissue: effects of cigarette smoking and alcohol. Schlager JJ, et al. **Int J Cancer** 1990 Mar 15;45(3):403–9

Selective inhibition of cytosolic epoxide hydrolase activity in vitro by compounds that inhibit catalase. Guenthner TM,

et al. **J Biochem Toxicol** 1989 Winter;4(4):241-9
Feedback regulation of CTP:phosphocholine cytidylyltransferase translocation between cytosol and endoplasmic reticulum by phosphatidylcholine. Jamil H, et al. **J Biol Chem** 1990 Mar 15;265(8):4332-9
Translocation of protein kinase C in human polymorphonuclear neutrophils. Regulation by cytosolic Ca2(+)-independent and Ca2(+)-dependent mechanisms. O'Flaherty JT, et al. **J Biol Chem** 1990 Jun 5; 265(16):9146-52
Selective inactivation of peroxisomal and cytosolic 3-ketothiolase IB by 2-chloro-6-phenylhexanoate in intact hepatocytes. Sephton GB, et al. **J Biol Chem** 1990 Jun 5; 265(16):9214-20
Choline deficiency causes translocation of CTP:phosphocholine cytidylyltransferase from cytosol to endoplasmic reticulum in rat liver. Yao ZM, et al. **J Biol Chem** 1990 Mar 15;265(8):4326-31
Nonselective autophagy of cytosolic enzymes by isolated rat hepatocytes. Kopitz J, et al. **J Cell Biol** 1990 Sep; 111(3):941-53
Protein kinase C and its endogenous substrate proteins in bovine mammary gland. Katoh N. **J Dairy Sci** 1990 May; 73(5):1201-7
Activation of the superoxide-forming NADPH oxidase of macrophages requires two cytosolic components--one of them is also present in certain nonphagocytic cells. Pick E, et al. **J Immunol** 1989 Dec 15;143(12):4180-7
Dephosphorylation of tau factor by protein phosphatase 2A in synaptosomal cytosol fractions, and inhibition by aluminum. Yamamoto H, et al. **J Neurochem** 1990 Aug; 55(2):683-90
Detoxification reactions of Fasciola hepatica cytosolic glutathione transferases. Brophy PM, et al. **Mol Biochem Parasitol** 1990 Mar;39(2):155-61
Fumarase deficiency is an autosomal recessive encephalopathy affecting both the mitochondrial and the cytosolic enzymes. Gellera C, et al. **Neurology** 1990 Mar; 40(3 Pt 1):495-9
Cytosolic aspartate aminotransferases from different chicken tissues: purification and characterization of their multiple forms. Imperial S, et al. **Prep Biochem** 1989;19(2):113-27
Purification and characterization of a cyclic GMP-stimulated cyclic nucleotide phosphodiesterase from the cytosol of human platelets. Grant PG, et al. **Thromb Res** 1990 Jul 1;59(1):105-19
Tetanus toxin attenuates the ability of phorbol myristate acetate to mobilize cytosolic protein kinase C in NG-108 cells. Considine RV, et al. **Toxicon** 1990;28(1):13-9
Proliferation of peroxisomes and induction of cytosolic and microsomal epoxide hydrolases in different strains of mice and rats after dietary treatment with clofibrate. Lundgren B, et al. **Xenobiotica** 1989 Aug;19(8):867-81
Nitric oxide and cytosolic guanylate cyclase: components of an intercellular signalling system. Böhme E, et al. **Z Kardiol** 1989;78 Suppl 6:75-9 (36 ref.)

METABOLISM

How maitotoxin increases cytosolic calcium levels? Meucci O, et al. **Acta Physiol Hung** 1990;75 Suppl:207-8
Vasoactive intestinal peptide (VIP) may reduce the removal rate of cytosolic Ca2+ after transient elevations in clonal rat lactotrophs. Sand O, et al. **Acta Physiol Scand** 1989 Sep;137(1):113-23
Fura-2 measurement of cytosolic free calcium in rat brain cortical synaptosomes and the influence of ethanol. Rezazadeh SM, et al. **Alcohol** 1989 Sep-Oct;6(5):341-5
Cytosolic calcium in T lymphocytes from the spontaneously hypertensive rat. Batlle DC, et al. **Am J Hypertens** 1990 May;3(5 Pt 1):343-8
Parathyroid hormone regulation of cytosolic Ca2+ in rat proximal tubules. Filburn CR, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):F545-52
Cytosolic free calcium regulation in renal tubules from spontaneously hypertensive rats. Jacobs WR, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F175-82
Stimulation of transient elevations in cytosolic Ca2+ is related to inhibition of Pi transport in OK cells. Miyauchi A, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):F485-93
Role of Na(+)-H+ and Cl(-)-HCO3- antiports in the regulation of cytosolic pH near neutrality. Tønnessen TI, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):C1117-26
Regulation of cytosolic Ca2+ in resting and stimulated rat submandibular salivary gland acini. Brinck RW, et al. **Arch Oral Biol** 1989;34(11):917-22
Effects of acetylcholine and monensin on 22Na uptake and cytosolic Ca2+ in rat submandibular salivary cells. Martinez JR, et al. **Arch Oral Biol** 1990;35(5):359-64
Cytosolic free magnesium, ATP and blebbing during chemical hypoxia in cultured rat hepatocytes. Harman AW, et al. **Biochem Biophys Res Commun** 1990 Jul 31; 170(2):477-83
Regulation of cytosolic Ca2+ in clonal human muscle cell cultures. Sarabia V, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1130-7
Thrombin's effects on osteoblastic cells. I. Cytosolic calcium and phosphoinositides. Tatakis DN, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):119-27
Thioredoxin and glutaredoxin systems of rat liver cytosol are not influenced by thyroid dysfunction. Bhat GB, et al. **Biochem Cell Biol** 1989 Jul;67(7):384-7
Neurotransmitter release from bradykinin-stimulated PC12 cells. Stimulation of cytosolic calcium and neurotransmitter release. Appell KC, et al. **Biochem J** 1989 Oct 1;263(1):11-8
Hepoxilin A3 induces changes in cytosolic calcium, intracellular pH and membrane potential in human neutrophils. Dho S, et al. **Biochem J** 1990 Feb 15; 266(1):63-8
Role of cytosol in the stimulation of RNA transport in vitro during cardiac hypertrophy in rats. Subramaniam A, et al. **Biochem J** 1990 Apr 1;267(1):133-40
The cytosolic concentration of phosphate determines the maximal rate of glycogenolysis in perfused rat liver. Vanstapel F, et al. **Biochem J** 1990 Feb 15;266(1):207-12
Cytosolic factors in bovine neutrophil oxidase activation. Partial purification and demonstration of translocation to a membrane fraction. Doussière J, et al. **Biochemistry** 1990 Mar 6;29(9):2225-32
Metabolism of nitroxide spin labels in subcellular fractions of rat liver. II. Reduction in the cytosol. Iannone A, et al. **Biochim Biophys Acta** 1990 Jun 20;1034(3):290-3
Microsomes convert retinol and retinal into retinoic acid and interfere in the conversions catalyzed by cytosol. Napoli JL, et al. **Biochim Biophys Acta** 1990 May 16; 1034(2):228-32
Regulation of calcium influx across the plasma membrane of the human T-leukemic cell line, JURKAT: dependence on a rise in cytosolic free calcium can be dissociated from formation of inositol phosphates. Ng J, et al. **Biochim Biophys Acta** 1990 Jun 12;1053(1):97-105
Exposure of human neutrophils to exogenous nucleotides causes elevation in intracellular calcium, transmembrane calcium fluxes, and an alteration of a cytosolic factor resulting in enhanced superoxide production in response to FMLP and arachidonic acid. Axtell RA, et al. **Blood** 1990 Mar 15;75(6):1324-32
Intracellular acidification induces decrease of cytosolic calcium in isolated osteoclasts. Teti A, et al. **Boll Soc Ital Biol Sper** 1989 Aug;65(8):689-93
The effects of human parathyroid hormone-related peptide on cytosolic free calcium and cAMP production in opossum kidney cell. Yamamoto Y, et al. **Bone Miner** 1989 Nov;7(3):221-31
Cytosolic free calcium concentrations in lymphocytes from malignant hyperthermia susceptible patients. Ording H, et al. **Br J Anaesth** 1990 Mar;64(3):341-5
Stereoselective sulphate conjugation of racemic terbutaline by human liver cytosol. Walle T, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):127-33
Effects of endothelin on the mechanical activity and cytosolic calcium level of various types of smooth muscle. Sakata K, et al. **Br J Pharmacol** 1989 Oct;98(2):483-92
Sex differences in cytosolic progestin receptors in microdissected regions of the hypothalamus/preoptic area of guinea pigs. Thornton JE, et al. **Brain Res** 1989 Dec 4;503(2):253-7
In vitro microsome- and cytosol-mediated binding of 1,2-dichloroethane and 1,2-dibromoethane with DNA. Colacci A, et al. **Cell Biol Toxicol** 1985 Jan;1(2):45-55
Cholera toxin and its B subunit do not change cytosolic free calcium concentration. Astashkin EI, et al. **Cell Calcium** 1990 Jun-Jul;11(6):419-23
Local and global changes in cytosolic free calcium in neutrophils during chemotaxis and phagocytosis. Marks PW, et al. **Cell Calcium** 1990 Feb-Mar;11(2-3):181-90
Regulation of cytosolic calcium by extracellular divalent cations in C-cells and parathyroid cells. Nemeth EF. **Cell Calcium** 1990 May;11(5):323-7 (23 ref.)
Endotoxicosis modulates cytosolic free calcium and basal and ACTH-stimulated lipolysis in rat adipocytes. Spitzer JA, et al. **Cell Calcium** 1990 Jun-Jul;11(6):405-11
Cell shape and increased free cytosolic calcium [Ca2+]i induced by growth factors. Tucker RW, et al. **Cell Calcium** 1990 Feb-Mar;11(2-3):201-9
Metabolism of 2,4-dinitrotoluene and 2,6-dinitrotoluene, and their dinitrobenzyl alcohols and dinitrobenzaldehydes by Wistar and Sprague-Dawley rat liver microsomal and cytosol fractions. Mori M, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1904-8
Stereoselective sulfation of terbutaline by the rat liver cytosol: evaluation of experimental approaches. Walle UK, et al. **Chirality** 1989;1(2):121-6
Phorbol ester and dioctanoylglycerol stimulate membrane association of protein kinase C and have a negative inotropic effect mediated by changes in cytosolic Ca2+ in adult rat cardiac myocytes. Capogrossi MC, et al. **Circ Res** 1990 Apr;66(4):1143-55
Facultative polypeptide translocation allows a single mRNA to encode the secreted and cytosolic forms of plasminogen activators inhibitor 2. Belin D, et al. **EMBO J** 1989 Nov; 8(11):3287-94
Structure-function relationships for full-length recombinant parathyroid hormone-related peptide and its amino-terminal fragments: effects on cytosolic calcium ion mobilization and adenylate cyclase activation in rat osteoblast-like cells. Donahue HJ, et al. **Endocrinology** 1990 Mar;126(3):1471-7
Cortisol-21-sulfate (FS) is a specific ligand for intracellular transcortin: demonstration of three types of high affinity corticosteroid binders in bovine aortic cytosol by a combined use of FS and RU 28362. Hayashi T, et al. **Endocrinology** 1990 Jan;126(1):307-16
Inhibitory effects of cadralazine and its metabolite, ISF-2405, on contractions and the level of cytosolic Ca2+ in vascular smooth muscle. Mitsui M, et al. **Eur J Pharmacol** 1990 Mar 20;178(2):171-7
Effects of NG-monomethyl-L-arginine on field stimulation-induced decreases in cytosolic Ca2+ levels and relaxation in the rat anococcygeus muscle. Ramagopal MV, et al. **Eur J Pharmacol** 1989 Dec 19;174(2-3):297-9
Cytostatic factor (CSF) activity in cytosols extracted from Xenopus laevis eggs. Moses RM, et al. **Exp Cell Res** 1990 Jan;186(1):66-73
Involvement of protein kinase C in translocation of desmoplakins from cytosol to plasma membrane during desmosome formation in human squamous cell carcinoma cells grown in low to normal calcium concentration. Sheu HM, et al. **Exp Cell Res** 1989 Nov;185(1):176-90
Cytosolic free calcium spiking affected by intracellular pH change. Tsunoda Y. **Exp Cell Res** 1990 Jun;188(2):294-301
Cytosolic calcium mobilization and thromboxane synthesis in a human megakaryocytic leukemia cell. Ryo R, et al. **Exp Hematol** 1990 May;18(4):271-5
Formation of a cytosolic ganglioside-protein complex following administration of photoreactive ganglioside GM1 to human fibroblasts in culture. Chigorno V, et al. **FEBS Lett** 1990 Apr 24;263(2):329-31
Electron spin resonance studies on the degradation of hydroperoxides by rat liver cytosol. Davies MJ. **Free Radic Res Commun** 1990;9(3-6):251-8
Genomic structure of the human cytosolic aldehyde dehydrogenase gene. Hsu LC, et al. **Genomics** 1989 Nov; 5(4):857-65
Increased prooxidant action of hepatic cytosolic low-molecular-weight iron in experimental iron overload. Britton RS, et al. **Hepatology** 1990 Jun;11(6):1038-43
Orthotopic liver transplantation and the cytosolic estrogen-androgen receptor status of the liver: the influence of the sex of the donor. Kahn D, et al. **Hepatology** 1989 Nov;10(5):861-6
Glucose raises cytosolic free calcium in the rat pancreatic islets. Komatsu M, et al. **Horm Metab Res** 1989 Aug; 21(8):405-9
Decreased cytosolic calcium and prostaglandin synthesis in prehypertensive rats. Craven PA, et al. **Hypertension** 1990 Apr;15(4):388-96
Regulation of cytosolic calcium by angiotensins in vascular smooth muscle. Dostal DE, et al. **Hypertension** 1990 Jun; 15(6 Pt 2):815-22
Milrinone enhances cytosolic calcium transient and contraction in rat cardiac myocytes during beta-adrenergic stimulation. Raffaeli S, et al. **Int J Cardiol** 1989;25 Suppl 1:S63-9
Fluorescence ratio imaging of cytosolic free Na+ in individual fibroblasts and lymphocytes. Harootunian AT, et al. **J Biol Chem** 1989 Nov 15;264(32):19458-67
Fluorescent indicators for cytosolic sodium. Minta A, et al. **J Biol Chem** 1989 Nov 15;264(32):19449-57
Characterization of cytosolic calcium oscillations induced by phenylephrine and vasopressin in single fura-2-loaded hepatocytes. Rooney TA, et al. **J Biol Chem** 1989 Oct 15; 264(29):17131-41
Comparison of the effects of angiotensin II and vasopressin on cytosolic free calcium concentration, protein kinase C activity, and prostacyclin production in cultured rat aortic and mesenteric smooth muscle cells. Chardonnens D, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 6:S39-44
Evidence for export of a muscle lectin from cytosol to extracellular matrix and for a novel secretory mechanism. Cooper DN, et al. **J Cell Biol** 1990 May;110(5):1681-91
Identification of a 25-kD protein from yeast cytosol that operates in a prefusion step of vesicular transport between compartments of the Golgi. Wattenberg BW, et al. **J Cell Biol** 1990 Apr;110(4):947-54
Influence of guanine nucleotides on vincristine binding in tumor cytosols and purified tubulin: evidence for an inhibitor of vincristine binding. Bowman LC, et al. **J Cell Physiol** 1990 Sep;144(3):376-82
Cytosolic pH regulation in osteoblasts. Regulation of anion exchange by intracellular pH and Ca2+ ions. Green J, et al. **J Gen Physiol** 1990 Jan;95(1):121-45
Activity of the multidrug transporter results in alkalinization of the cytosol: measurement of cytosolic pH by microinjection of a pH-sensitive dye. Thiebaut F, et al. **J Histochem Cytochem** 1990 May;38(5):685-90
Membrane and cytosolic interleukin-1 alpha and beta in normal human epidermal cells: variability of epitope exposure in immunohistochemistry. Anttila HS, et al. **J Invest Dermatol** 1990 Jul;95(1):31-8
Substance P-induced reduction in the initial accumulation of cytosolic myo-[3H]inositol in rat parotid acinar cells mediated by the NK1 tachykinin receptor. Dietl MM, et al. **J Neurochem** 1989 Nov;53(5):1640-3
Synaptic vesicular glutamate uptake: modulation by a synaptosomal cytosolic factor. Lobur AT, et al. **J Neurochem** 1990 May;54(5):1614-8
Different patterns of agonist-stimulated increases of 3H-inositol phosphate isomers and cytosolic Ca2+ in bovine adrenal chromaffin cells: comparison of the effects of histamine and angiotensin II. Stauderman KA, et al. **J Neurochem** 1990 Mar;54(3):946-53
Coupling of glutamatergic receptors to changes in intracellular Ca2+ in rat cerebellar granule cells in primary culture. Holopainen I, et al. **J Neurosci Res** 1990 Feb; 25(2):187-93
Cytosolic calcium changes in endothelial cells induced by

a protein product of human gliomas containing vascular permeability factor activity. Criscuolo GR, et al. **J Neurosurg** 1989 Dec;71(6):884–91

Protective qualities of mitochondrial and cytosolic fluorescent dyes against in vitro and in vivo infection by the Tulahuen strain of Trypanosoma cruzi. Dennis MV, et al. **J Parasitol** 1990 Apr;76(2):171–6

Stereoselective reduction of acetohexamide in cytosol of rabbit liver. Imamura Y, et al. **J Pharmacobiodyn** 1989 Dec; 12(12):731–5

Greater tension is developed at the same level of cytosolic Ca2+ concentration in the presence of clonidine, an adrenergic partial agonist, than in the presence of norepinephrine. Takayanagi I, et al. **J Pharmacobiodyn** 1989 Dec;12(12):781–6

Effects of low extracellular calcium on cytosolic calcium and ischemic contracture. Jimenez E, et al. **J Surg Res** 1990 Sep;49(3):252–5

The relationship between free cytosolic calcium and amylase release in rat pancreatic acini. Ogami Y, et al. **Jpn J Physiol** 1989;39(4):571–84

Spontaneous and secretagogue-induced changes in cytosolic free Ca concentration measured by microfluorimetry with fura-2 on single bovine adrenal chromaffin cells. Sorimachi M, et al. **Jpn J Physiol** 1989;39(5):687–701

Correlation of blood pressure in end-stage renal disease with platelet cytosolic free-calcium concentration. Schiffl H. **Klin Wochenschr** 1990 Jul 17;68(14):718–22

The regulation of cytosolic Ca2+ concentration in a mammalian cell. Ota A. **Med Hypotheses** 1990 May; 32(1):37–8 (6 ref.)

Receptor-triggered polyphosphoinositide turnover produces less cytosolic free calcium in cultured dysgenic myotubes than in normal myotubes. Tassin AM, et al. **Muscle Nerve** 1990 Feb;13(2):142–5

The cytosol of N1E-115 neuroblastoma cells synthesizes an EDRF-like substance that relaxes rabbit aorta. Förstermann U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;340(6 Pt 2):771–4

NG-nitro-L-arginine (N5-[imino(nitroamino)methyl]-L-ornithine) impairs endothelium-dependent dilations by inhibiting cytosolic nitric oxide synthesis from L-arginine. Mülsch A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan-Feb; 341(1-2):143–7

Nitric oxide synthesis in endothelial cytosol: evidence for a calcium-dependent and a calcium-independent mechanism. Mülsch A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;340(6 Pt 2):767–70

Cytosolic calcium levels in vascular smooth muscle. Karaki H. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec;52(8):1506–15 (22 ref.)

Estradiol receptors in the cytosol of peripheral blood mononuclear cells in hepatitis virus carriers. Mizoguchi Y, et al. **Osaka City Med J** 1989 Nov;35(2):93–100

Neurotensin elevates cytosolic calcium in small cell lung cancer cells. Staley J, et al. **Peptides** 1989 Nov-Dec; 10(6):1217–21

Thrombin-induced cytosolic alkalinization in human platelets occurs without an apparent involvement of HCO_3^-/Cl^- exchange. Clemens N, et al. **Pflugers Arch** 1990 Apr; 416(1-2):68–73

Changes in cytosolic CA2+ and contraction induced by various stimulants and relaxants in canine tracheal smooth muscle. Ozaki H, et al. **Pflugers Arch** 1990 Jun;416(4):351–9

Cytosolic free calcium in hippocampal CA3 pyramidal cells. Knöpfel T, et al. **Prog Brain Res** 1990;83:189–95 (26 ref.)

Leakage of thyroid hormone-inducible monoamine oxidase inhibitor from rat liver cytosol. Obata T, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr;68(1):65–71

A cytosolic protein catalyzes the release of GDP from p21ras. Wolfman A, et al. **Science** 1990 Apr 6;248(4951):67–9

Biological activity of retinoids correlates with affinity for nuclear receptors but not for cytosolic binding protein. Darmon M, et al. **Skin Pharmacol** 1988;1(3):161–75

Unusually high rates of metabolism of DHT in cytosols of the quail uropygial gland. Amet Y, et al. **Steroids** 1990 May;55(5):228–32

The effect of cardiac hypertrophy on changes in cytosolic free calcium concentration during ischemia. del Nido PJ, et al. **Surgery** 1990 Aug;108(2):312–6; discussion 316–7

The actions of growth hormone and prolactin on rat hepatocytes are not mediated by changes in cytoplasmic Ca2+. Emtner M, et al. **Ups J Med Sci** 1989;94(3):291–7

Regulation of acetyl CoA carboxylase mRNA in rat liver by high carbohydrate diet and insulin. Choi DH, et al. **Yonsei Med J** 1989 Sep;30(3):235–45

[Transport proteins for drugs and bile acids in the liver cytosol and plasma membrane—its multiplicity and functions] Sugiyama Y, et al. **Tanpakushitsu Kakusan Koso** 1990 May;35(6):941–56 (113 ref.) **(Jpn)**

[Ca2+-phospholipid-dependent phosphorylation of cytosol and membrane proteins of the brain in light craniocerebral trauma] Kucherenko SN, et al. **Zh Nevropatol Psikhiatr** 1989;89(12):11–4 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Cytosol type electrolyte medium suitable for long term growth of human cells with very low membrane potential. Kagawa Y, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1217–21

Cytosolic pH and pancreatic beta-cell function. Lynch A, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):411–6 (53 ref.)

An important role for cytosol in the microsomal metabolism of N-nitrosodimethylamine to a mutagen: evidence for two different mutagenic metabolites. Guttenplan JB. **Cancer Lett** 1989 Sep 15;47(1-2):63–7

Cytosolic pH changes in contracting canine trachealis smooth muscle. Bose R, et al. **Prog Clin Biol Res** 1990;327:695–702

TRANSPLANTATION

[Studies on the effect of liver cytosol on experimental acute hepatic failure in the rat] Ha TZ. **Chung Hua I Hsueh Tsa Chih** 1989 May;69(5):267–70, 18 (Eng. Abstr.) **(Chi)**

CYTOSOL AMINOPEPTIDASE see **LEUCINE AMINOPEPTIDASE**

CYTOSTATIC AGENTS see **ANTINEOPLASTIC AGENTS**

CYTOTAXINOGENS see **CHEMOTACTIC FACTORS**

CYTOTAXINS see **CHEMOTACTIC FACTORS**

CYTOTOXIC ANTIBIOTICS see **ANTIBIOTICS, ANTINEOPLASTIC**

CYTOTOXIC T-LYMPHOCYTES see **T-LYMPHOCYTES, CYTOTOXIC**

CYTOTOXICITY, ANTIBODY-DEPENDENT CELL see **ANTIBODY-DEPENDENT CELL CYTOTOXICITY**

CYTOTOXICITY, IMMUNOLOGIC

see related
COMPLEMENT MEMBRANE ATTACK COMPLEX
KILLER CELLS, LYMPHOKINE-ACTIVATED
KILLER CELLS, NATURAL
T-LYMPHOCYTES, CYTOTOXIC

Recombinant CD4-Pseudomonas exotoxin hybrid protein displays HIV-specific cytotoxicity without affecting MHC class II-dependent functions. Berger EA, et al. **AIDS Res Hum Retroviruses** 1990 Jun;6(6):795–804

Lymphokine-activated killer (LAK) cell activity in tumor-infiltrating lymphocytes from non-small cell lung cancer. Pisani RJ, et al. **Am J Clin Pathol** 1989 Oct; 92(4):435–46

Can trophoblast be killed by cytotoxic cells? In vitro evidence and in vivo possibilities. Head JR. **Am J Reprod Immunol** 1989 Jul;20(3):100–5 (78 ref.)

Early pregnancy loss, premature and low birth weight delivery and increased maternal lymphocyte cytotoxicity [letter] Hoff C. **Am J Reprod Immunol** 1990 Mar-Apr; 22(3-4):134

Cytotoxic effector cells of the immune system. Groscurth P. **Anat Embryol (Berl)** 1989;180(2):109–19 (93 ref.)

Human recombinant interleukin-2 augments porcine natural killer cell cytotoxicity in vivo. Hennessy KJ, et al. **Ann Rech Vet** 1990;21(2):101–9

Still's disease associated with adenovirus infection and defect in adenovirus directed natural killing. Luder AS, et al. **Ann Rheum Dis** 1989 Sep;48(9):781–6

Donor-specific cytotoxicity testing: an advance in detecting pulmonary allograft rejection. Dal Col RH, et al. **Ann Thorac Surg** 1990 May;49(5):754–8

Study of the dependence of human monocytes and macrophages antitumoral properties upon TNF-alpha expression or release. Dumont S, et al. **Anticancer Res** 1990 Jul-Aug;10(4):949–54

Roles of interferon and natural killer cells in the antiviral activity of 7-thia-8-oxoguanosine against Semliki Forest virus infections in mice. Smee DF, et al. **Antiviral Res** 1990 Feb;13(2):91–102

Association of HLA-DR antigens with the development of cytotoxic antibodies in patients on dialysis. Matej H, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3-4):301–4

Abilities of activated macrophages to manifest tumoricidal activity and to generate reactive nitrogen intermediates: a comparative study in vitro and ex vivo. Keller R, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):968–73

L-arginine independent macrophage tumor cytotoxicity. Klostergaard J, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1262–6

Natural killer cell activity in depressive illness: preliminary report. Kronfol Z, et al. **Biol Psychiatry** 1989 Nov; 26(7):753–6

Antibody-mediated marrow failure after allogeneic bone marrow transplantation. Barge AJ, et al. **Blood** 1989 Oct; 74(5):1477–80

Perforin gene expression in granular lymphocyte proliferative disorders. Oshimi K, et al. **Blood** 1990 Feb 1;75(3):704–8

Diminished A-LAK cytotoxicity and proliferation accompany disease progression in chronic myelogenous leukemia. Verfaillie C, et al. **Blood** 1990 Jul 15;76(2):401–8

Cytotoxicity of purified Leu 19+ cells from the peripheral blood of children with acute lymphocytic leukemia. Afify ZA, et al. **Cancer** 1990 Aug 1;66(3):469–73

Effect of virus-modified tumor cell extracts, autologous mononuclear cell infusions and interleukin-2 on oncolytic activity of effector cells of patients with advanced ovarian cancer. Furukawa K, et al. **Cancer Immunol Immunother** 1989;30(2):126–32

Cytostatic and cytotoxic activity of lymphokine-activated killer cell supernatants. Hersh EM, et al. **Cancer Immunol Immunother** 1989;30(1):65–70

Emergence of a dominant cytotoxic T lymphocyte antitumor effector from tumor-infiltrating cells in the anterior chamber of the eye. Knisely TL, et al. **Cancer Immunol Immunother** 1990;30(6):323–30

Generation of cell-mediated cytotoxicity against bovine-papilloma-virus-transformed primary mouse cell lines. Laatikainen A, et al. **Cancer Immunol Immunother** 1990;30(6):351–6

Comparison of recombinant-interleukin-2-activated peripheral blood and tumor-infiltrating lymphocytes of patients with epithelial ovarian carcinoma: cytotoxicity, growth kinetics and phenotype. Lotzová E, et al. **Cancer Immunol Immunother** 1990;31(3):169–75

Modulation by cytokines of HLA antigens, intercellular adhesion molecule 1 and high molecular weight melanoma associated antigen expression and of immune lysis of clones derived from the melanoma cell line MeM 50-10. Maio M, et al. **Cancer Immunol Immunother** 1989;30(1):34–42

Hairy cell sensitivity to the lysis in vitro. Role of the anti-CD3 antibody in generating a susceptibility to the lysis. Semenzato G, et al. **Cancer Immunol Immunother** 1989;30(4):254–6

Tumor cytotoxicity and interleukin 1 production of blood monocytes of lung cancer patients. Sone S, et al. **Cancer Immunol Immunother** 1990;30(6):357–62

Lysing of fresh human tumor by a cytotoxic factor derived from autologous large granular lymphocytes independently of other known cytokines. Uchida A, et al. **Cancer Immunol Immunother** 1990;31(1):60–4

Susceptibility of RDM4 lymphoma cells to LAK-mediated lysis is decreased in tumor bearers fed fish oil high fat regimen. el Ayachi N, et al. **Cancer Lett** 1990 Mar; 49(3):217–24

Characterization of tumor binding by the IC-21 macrophage cell line. Crawford EK, et al. **Cancer Res** 1990 Aug 1; 50(15):4578–83

Characterization of the cytolytic activity of CD4+ and CD8+ tumor-infiltrating lymphocytes in human renal cell carcinoma. Finke JH, et al. **Cancer Res** 1990 Apr 15; 50(8):2363–70

Repetitive weekly cycles of interleukin 2: effect of outpatient treatment with a lower dose of interleukin 2 on non-major histocompatibility complex-restricted killer activity. Goldstein D, et al. **Cancer Res** 1989 Dec 1;49(23):6832–9

Human tumor cell line resistance to chemotherapeutic agents does not predict resistance to natural killer or lymphokine-activated killer cell-mediated cytolysis. Harker WG, et al. **Cancer Res** 1990 Sep 15;50(18):5931–6

Induction of lymphokine-activated killer activity by interleukin 4 in human lymphocytes preactivated by interleukin 2 in vivo or in vitro. Higuchi CM, et al. **Cancer Res** 1989 Dec 1;49(23):6487–92

Infiltrative and cytolytic activities of lymphokine-activated killer cells against a human glioma spheroid model. Iwasaki K, et al. **Cancer Res** 1990 Apr 15;50(8):2429–36

Anti-GD3 monoclonal antibody analysis of childhood T-cell acute lymphoblastic leukemia: detection of a target antigen for antibody-mediated cytolysis. Reaman GH, et al. **Cancer Res** 1990 Jan 1;50(1):202–5

Susceptibility to lysis of pulmonary alveolar macrophages by human lymphokine-activated killer cells. Zambello R, et al. **Cancer Res** 1990 Mar 15;50(6):1768–73

Interleukin-2 production by tumor cells bypasses T helper function in the generation of an antitumor response. Fearon ER, et al. **Cell** 1990 Feb 9;60(3):397–403

Eradication of adenovirus E1-induced tumors by E1A-specific cytotoxic T lymphocytes. Kast WM, et al. **Cell** 1989 Nov 17;59(4):603–14

Induction of allograft tolerance to the H-Y antigen in adult C57BL/6 mice: differential effects on delayed-type hypersensitivity and cytolytic T-lymphocyte activity. Busker AE, et al. **Cell Immunol** 1990 Jan;125(1):225–34

Immunoregulatory role of in vitro differentiated macrophages on human natural killer (NK)-cell activity. Chang ZL, et al. **Cell Immunol** 1990 Jan;125(1):183–96

Correlation between T cell receptor gamma delta isotypic forms and cytotoxic activity: analysis with human T cell clones and lines. Dastot H, et al. **Cell Immunol** 1990 Feb; 125(2):315–25

Tumor-selective cytolysis is executed exclusively by CD45R+ CTL whereas allo-specific cytotoxicity can be executed also by CD45R- CTL. Ericsson PO, et al. **Cell Immunol** 1990 Mar;126(1):69–79

Characterization of a monoclonal antibody enhancing porcine natural killer cell activity (PNK-E). Johnson BD, et al. **Cell Immunol** 1990 Jan;125(1):107–19

Human trophoblast cell resistance to decidual NK lysis is due to lack of NK target structure. King A, et al. **Cell Immunol** 1990 May;127(2):230–7

Cell surface-associated proteinases in NK cell-mediated cytotoxicity: enhancement of enzyme expression is unique to activation with interferon-alpha. Lavie G, et al. **Cell Immunol** 1989 Dec;124(2):202–11

Demonstration of a splenic cytotoxic effector cell in mice of genotype SCID/SCID.BG/BG. MacDougall JR, et al. **Cell Immunol** 1990 Oct 1;130(1):106–17

Shark cytotoxic macrophages interact with target membrane amino groups. McKinney EC. **Cell Immunol** 1990 May; 127(2):506–13

Natural anti–chondrocyte cytotoxic activity in the mouse: supportive role of macrophages. Malejczyk J. **Cell Immunol** 1990 May;127(2):420–31

Involvement of CD45 in MHC class II–allospecific cytotoxicity. Pawelec G, et al. **Cell Immunol** 1990 May; 127(2):514–9

The influence of protein malnutrition on T cell, natural killer cell, and lymphokine–activated killer cell function, and on biological responsiveness to high–dose interleukin–2. Reynolds JV, et al. **Cell Immunol** 1990 Jul;128(2):569–77

The acquisition and maintenance of cytolytic activity by CD4+ murine T–lymphocyte clones. Shih CC, et al. **Cell Immunol** 1990 Oct 1;130(1):160–75

Analysis of the mechanisms involved in NK resistance induced by a new tumor factor NK–RIF. Solana R, et al. **Cell Immunol** 1990 Oct 1;130(1):244–51

A homogeneous population of lymphokine–activated killer (LAK) cells is incapable of killing virus–, bacteria–, or parasite–infected macrophages. Zychlinsky A, et al. **Cell Immunol** 1990 Jan;125(1):261–7

Cytotoxic mechanisms of murine lymphokine–activated killer cells: functional and biochemical characterization of homogeneous populations of spleen LAK cells. Zychlinsky A, et al. **Cell Immunol** 1990 Apr 1;126(2):377–90

Fc gamma R in cytotoxicity exerted by mononuclear cells. Fanger MW, et al. **Chem Immunol** 1989;47:214–53 (138 ref.)

Targeting and activation of cytotoxic lymphocytes. Segal DM, et al. **Chem Immunol** 1989;47:179–213 (203 ref.)

Natural killer cell–mediated lysis of T cell lines chronically infected with HIV–1. Bandyopadhyay S, et al. **Clin Exp Immunol** 1990 Mar;79(3):430–5

Dual mechanism in induction of human neutrophil cytotoxicity: activation of protein kinase C and elevation in intracellular calcium. Gavioli R, et al. **Clin Exp Immunol** 1990 May;80(2):247–51

Production of tumour necrosis factor–alpha (TNF–alpha) and interleukin–1 (IL–1) in patients with AIDS. Enhanced level of TNF–alpha is related to a higher cytotoxic activity. Hober D, et al. **Clin Exp Immunol** 1989 Dec;78(3):329–33

Tumour necrosis factor production and cell–mediated immunity in anorexia nervosa. Schattner A, et al. **Clin Exp Immunol** 1990 Jan;79(1):62–6

Inhibition of non–MHC–restricted cytotoxicity by CD45 but not CD3 monoclonal antibodies in patients with large granular lymphoproliferative disease. Starling GC, et al. **Clin Exp Immunol** 1989 Dec;78(3):396–401

Lymphokine–activated killer cytotoxicity against leukaemic blast cells. Tratkiewicz JA, et al. **Clin Exp Immunol** 1990 Apr;80(1):94–9

Rotavirus induces proliferative response and augments non–specific cytotoxic activity of lymphocytes in humans. Yasukawa M, et al. **Clin Exp Immunol** 1990 Apr;80(1):49–55

The in vivo clearance of Ha–ras transformants by natural killer cells. Johnson PW, et al. **Clin Exp Metastasis** 1990 Jan–Feb;8(1):13–25

Lymphokine–activated killer cells in primary immunodeficiencies and acquired immunodeficiency syndrome. Chin TW, et al. **Clin Immunol Immunopathol** 1989 Dec;53(3):449–59

Killer lymphocytes and how they kill. Podack ER. **Curr Opin Cell Biol** 1989 Oct;1(5):929–33 (4 ref.)

Comparison of roles of serine esterase in chicken and human natural cytotoxicity. Mándi Y, et al. **Dev Comp Immunol** 1990 Winter;14(1):113–9

Macrophage–mediated islet cell cytotoxicity in BB rats. Nagy MV, et al. **Diabetes** 1989 Oct;38(10):1329–31

Intrinsic cytotoxicity of natural killer cells to pancreatic islets in vitro. Nakamura N, et al. **Diabetes** 1990 Jul;39(7):836–43

Central corticotropin–releasing factor mediates the suppressive effect of stress on natural killer cytotoxicity. Irwin M, et al. **Endocrinology** 1990 Jun;126(6):2837–44

Induction of antigen–specific CD4+ HLA–DR–restricted cytotoxic T lymphocytes as well as nonspecific nonrestricted killer cells by the recombinant mycobacterial 65–kDa heat–shock protein. Ab BK, et al. **Eur J Immunol** 1990 Feb;20(2):369–77

Selective expansion of a specific anti–tumor CD8+ cytotoxic T lymphocyte clone in the bulk culture of tumor–infiltrating lymphocytes from a melanoma patient: cytotoxic activity and T cell receptor gene rearrangements. Gervois N, et al. **Eur J Immunol** 1990 Apr;20(4):825–31

Elevated temperature regulates tumor necrosis factor–mediated immune killing. Gromkowski SH, et al. **Eur J Immunol** 1989 Sep;19(9):1709–14

T cell activation: independent induction of killing activity and interleukin 2 secretion in cytolytic hybridomas. Ozery T, et al. **Eur J Immunol** 1989 Oct;19(10):1965–8

Reconstitution of H–2 class I expression by gene transfection decreases susceptibility to natural killer cells of an EL4 class I loss variant. Sturmhöfel K, et al. **Eur J Immunol** 1990 Jan;20(1):171–7

Modulation of natural killer cell activity by surface phosphorylation reactions. Myers LK, et al. **Exp Cell Res** 1990 Apr;187(2):270–6

Increased cell–mediated cytotoxicity against beta–cells in streptozotocin–treated offspring of mother animals with gestational hyperglycaemia. Dörner G, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):4–10

Humoral–mediated anti–islet cytotoxicity in diabetes–prone BB/OK rats—effect on beta–cell function and autologous islets. Schröder D, et al. **Exp Clin Endocrinol** 1990 Feb; 95(1):22–30

Soluble and surface–bound immunoglobulin triggers human monocyte activation and hydrogen peroxide release. Mentzer SJ, et al. **Exp Hematol** 1990 Aug;18(7):812–7

Effective purging of bone marrow by a combination of immunorosette depletion and complement lysis. Slaper–Cortenbach IC, et al. **Exp Hematol** 1990 Jan; 18(1):49–54

Interaction of human natural killer cells with plasmodium–infected erythrocytes. Saxena QB, et al. **Exp Parasitol** 1989 Oct;69(3):300–2

Going both ways: bispecific antibodies and targeted cellular cytotoxicity [news] Fanger MW, et al. **FASEB J** 1990 Aug; 4(11):2846–9 (5 ref.)

Inhibition of mouse tumor cells in vitro by contact with lymph node and tumor cells containing foreign H–2 antigens. Hellström KE, et al. **Fed Proc** 1968 Jan–Feb; 27(1):39–41

Target cell destruction. Rosenau W. **Fed Proc** 1968 Jan–Feb; 27(1):34–8

Characterisation of the effector cells responsible for the in vitro cytotoxicity of blood leucocytes from aphthous ulcer patients for oral epithelial cells. Thomas DW, et al. **Gut** 1990 Mar;31(3):294–9

Defective antibody–dependent and lectin–induced polymorphonuclear cytotoxicity in patients with myelodysplastic syndromes. Fontana L, et al. **Haematologica** 1990 Jan–Feb;75(1):46–9

Lymphokine activated killer (LAK) cells in antibody dependent cellular cytotoxicity (ADCC) using MAb 17–1A: a combination of potential usefulness in tumor therapy. Masucci G, et al. **Hybridoma** 1989 Oct;8(5):507–16

The ability of mouse monoclonal antibodies to direct the cytotoxic function of cytokine–activated human eosinophils. Silberstein DS, et al. **Hybridoma** 1990 Jun; 9(3):237–42

Kinetics of cellular cytotoxicity mediated by a cloned human natural killer cell line. Mahle NH, et al. **Immunobiology** 1989 Jun;179(2–3):230–43

Modulation of lung–associated natural killer activity by resident and activated alveolar macrophages. Lemaire I, et al. **Immunol Invest** 1990 Feb;19(1):27–40

Neutrophil–mediated cytotoxicity induced by secretory IgA. Geffner JR, et al. **Immunol Lett** 1990 May;24(2):113–6

The role of cell surface recognition structures in the initiation of MHC–unrestricted 'promiscuous' killing by T cells [see comments] Thiele DL, et al. **Immunol Today** 1989 Nov; 10(11):375–81 (43 ref.) Comment in: Immunol Today 1990 Apr;11(4):108–10. Comment in: Immunol Today 1990 Apr;11(4):110–1.

A central role for phosphoinositide hydrolysis in activating the lytic mechanism of human natural killer cells. Chow SC, et al. **Immunology** 1990 May;70(1):106–10

Systemic administration of IL–2 induces lymphokine–activated killer (LAK) cells capable of killing macrophages in various tissues. Kamitani T, et al. **Immunology** 1989 Dec;68(4):520–5

Morphological, physiological and biochemical parameters associated with cell injury: a review. Liepins A. **Immunopharmacol Immunotoxicol** 1989;11(4):539–58 (71 ref.)

Functional characterization of intestinal intraepithelium & lamina propria lymphocytes from Giardia lamblia infected mice. Vinayak VK, et al. **Indian J Med Res** 1989 Jul; 89:271–81

Role of CD18 in lymphokine activated killer (LAK) cell–mediated lysis of human monocytes: comparison with other LAK targets. Blanchard DK, et al. **Int J Cancer** 1990 Feb 15;45(2):312–9

Tumor–specific T–cell clones recognize different protein determinants of autologous human malignant melanoma cells. Notter M, et al. **Int J Cancer** 1990 May 15; 45(5):834–41

An SEM analysis of the interaction between lymphokine–activated killer cells and tumor targets. Arancia G, et al. **Int J Cancer Suppl** 1989;4:58–61

Cytotoxic T cell clones against human autologous cancers: analysis of target antigen and the mechanism of specific target cell destruction. Kikuchi K, et al. **Int Symp Princess Takamatsu Cancer Res Fund** 1988; 19:303–13

Association of uveal melanocyte destruction in melanoma–bearing swine with large granular lymphocyte cells. Richerson JT, et al. **Invest Ophthalmol Vis Sci** 1989 Dec;30(12):2455–60

Lymphocyte metabolism and cytotoxic activity monitored with 31P magnetic resonance spectroscopy. Narayan KS, et al. **J Biol Response Mod** 1990 Apr;9(2):241–6

Dynamic changes in viscoelastic properties in cytotoxic T–lymphocyte–mediated killing. Sung KL, et al. **J Cell Sci** 1988 Oct;9[illegible] (Pt 2):179–89

Interleukin 2 induced non MHC–restricted killing of herpes simplex type–1 (HSV–1) infected allogeneic and autologous lymphoblasts. Klimpel GR, et al. **J Clin Lab Immunol** 1989 May;29(1):1–7

Role of cytostasis in antitumor immunity against syngeneic X5563 plasmocytoma: comparative study of cytostasis and cytolysis using variant tumors and neonatally thymectomized mice. Mitani M, et al. **J Clin Lab Immunol** 1989 May;29(1):45–52

Cytotoxic T cell recognition of an endogenous class I HLA peptide presented by a class II HLA molecule. Chen BP, et al. **J Exp Med** 1990 Sep 1;172(3):779–88

Purified perforin induces target cell lysis but not DNA fragmentation. Duke RC, et al. **J Exp Med** 1989 Oct 1; 170(4):1451–6

Gamma/delta T cell clones and natural killer cell clones mediate distinct patterns of non–major histocompatibility complex–restricted cytolysis. Fisch P, et al. **J Exp Med** 1990 May 1;171(5):1567–79

Cytotoxic T lymphocytes reactive against a syngeneic murine tumor and their specific suppressor T cells are both elicited by in vitro allosensitization. Leshem B, et al. **J Exp Med** 1990 Apr 1;171(4):1057–71

A novel surface antigen expressed by a subset of human CD3– CD16+ natural killer cells. Role in cell activation and regulation of cytolytic function. Moretta A, et al. **J Exp Med** 1990 Mar 1;171(3):695–714

Tumor necrosis factor alpha/cachectin stimulates eosinophil oxidant production and toxicity towards human endothelium. Slungaard A, et al. **J Exp Med** 1990 Jun 1; 171(6):2025–41

In vivo treatment with monoclonal antibody 3.2.3 selectively eliminates natural killer cells in rats. van den Brink MR, et al. **J Exp Med** 1990 Jan 1;171(1):197–210

Susceptibility of human male keratinocytes to MHC–restricted H–Y–specific lysis. van Els CA, et al. **J Exp Med** 1989 Oct 1;170(4):1469–74

Dendritic cells stimulate primary human cytolytic lymphocyte responses in the absence of CD4+ helper T cells. Young JW, et al. **J Exp Med** 1990 Apr 1; 171(4):1315–32

T–cell mediated cytolysis: evidence for target–cell suicide. Chayen J, et al. **J Exp Pathol (Oxford)** 1990 Apr; 71(2):197–208

A monoclonal antibody reactive with a 15–kDa cytoplasmic granule–associated protein defines a subpopulation of CD8+ T lymphocytes. Anderson P, et al. **J Immunol** 1990 Jan 15;144(2):574–82

Lymphokine–activated killer (LAK) cells. IV. Characterization of murine LAK effector subpopulations. Ballas ZK, et al. **J Immunol** 1990 Jan 1;144(1):386–95

Structure and diversity of HLA–B27–specific T cell epitopes. Analysis with site–directed mutants mimicking HLA–B27 subtype polymorphism. Calvo V, et al. **J Immunol** 1990 May 15;144(10):4038–45

Regulation of the cytotoxic T lymphocyte response against Qa–1 alloantigens. Cassell DJ, et al. **J Immunol** 1990 Jun 1;144(11):4075–81

Autologous melanoma–induced activation of regulatory T cells that suppress cytotoxic response. Chakraborty NG, et al. **J Immunol** 1990 Oct 1;145(7):2359–64

Heterogeneity in direct cytotoxic function of L3T4 T cells. TH1 clones express higher cytotoxic activity to antigen–presenting cells than TH2 clones. Chang JC, et al. **J Immunol** 1990 Jul 15;145(2):409–16

Induction of macrophage–mediated tumor cytotoxicity by a hamster monoclonal antibody with specificity for lipopolysaccharide receptor. Chen TY, et al. **J Immunol** 1990 Jul 1;145(1):8–12

Immune tolerance to virus Ag induced in mice [letter; comment] Chieco–Bianchi L. **J Immunol** 1989 Nov 15; 143(10):3412 Comment on: J Immunol 1989 Jun 15;142(12):4435–40.

Assessment of human natural killer and lymphokine–activated killer cell cytotoxicity against Toxoplasma gondii trophozoites and brain cysts. Dannemann BR, et al. **J Immunol** 1989 Oct 15; 143(8):2684–91

Characterization and utilization of a monoclonal antibody inhibiting porcine natural killer cell activity for isolation of natural killer and killer cells. Dato ME, et al. **J Immunol** 1990 Jun 1;144(11):4452–62

Adenovirus E1A renders infected cells sensitive to cytolysis by tumor necrosis factor. Duerksen–Hughes P, et al. **J Immunol** 1989 Dec 15;143(12):4193–200

Induction of human lymphokine–activated killer cells by IFN–alpha and IFN–gamma. Ellis TM, et al. **J Immunol** 1989 Dec 15;143(12):4282–6

CD4+ T cell–mediated killing of MHC class II–positive antigen–presenting cells. I. Characterization of target cell recognition by in vivo or in vitro activated CD4+ killer T cells. Erb P, et al. **J Immunol** 1990 Feb 1;144(3):790–5

Activation of C3H/HeJ macrophage tumoricidal activity and cytokine release by R–chemotype lipopolysaccharide preparations. Differential effects of IFN–gamma. Flebbe LM, et al. **J Immunol** 1990 Sep 1;145(5):1505–11

Targeted cytotoxic cells in human peripheral blood lymphocytes. Garrido MA, et al. **J Immunol** 1990 Apr 15; 144(8):2891–8

Increased sensitivity to MHC–nonrestricted lysis of BL6 melanoma cells by transfection with class I H–2Kb gene. Gorelik E, et al. **J Immunol** 1990 Sep 1;145(5):1621–32

Cytolytic mechanisms of activated macrophages. Tumor necrosis factor and L–arginine–dependent mechanisms act synergistically as the major cytolytic mechanisms of activated macrophages. Higuchi M, et al. **J Immunol** 1990 Feb 15;144(4):1425–31

The role of physical forces on cytotoxic T cell–target cell conjugate stability. Hubbard BB, et al. **J Immunol** 1990 Jun 1;144(11):4129–38

Macrophage cytotoxicity against schistosomula of

Schistosoma mansoni involves arginine-dependent production of reactive nitrogen intermediates. James SL, et al. **J Immunol** 1989 Dec 15;143(12):4208–12

A monoclonal antibody-purified soluble target cell antigen inhibits nonspecific cytotoxic cell activity. Jaso-Friedmann L, et al. **J Immunol** 1990 Mar 15;144(6):2413–8

Effect of the expression of a hepatocyte-specific MHC molecule in transgenic mice on T cell tolerance. Jones-Youngblood SL, et al. **J Immunol** 1990 Feb 15; 144(4):1187–95

Expression of two distinct cytolytic mechanisms among murine CD4 subsets. Ju ST, et al. **J Immunol** 1990 Jan 1;144(1):23–31

Elevated natural killer cell responses in mice infected with recombinant vaccinia virus encoding murine IL-2. Karupiah G, et al. **J Immunol** 1990 Jan 1;144(1):290–8

Identification of a unique T cell-derived lymphokine that primes macrophages for tumor cytotoxicity. Kern DE, et al. **J Immunol** 1989 Dec 15;143(12):4308–16

Growth factor-initiated proliferation of mouse embryonic fibroblasts induces cytotoxicity by natural killer cells and by a non-cytolysin cytotoxin in natural killer granules. Khalil N, et al. **J Immunol** 1990 Aug 15;145(4):1286–92

Differences in surface phenotype and mechanism of action between alloantigen-specific CD8+ cytotoxic and suppressor T cell clones. Koide J, et al. **J Immunol** 1990 Jan 1;144(1):32–40

Failure of infiltrating precursor cytotoxic T cells to acquire direct cytotoxic function in immunologically privileged sites. Ksander BR, et al. **J Immunol** 1990 Oct 1; 145(7):2057–63

Evidence that a target-derived soluble factor is necessary for the selective lysis of SV40-transformed fibroblasts by activated mouse macrophages. Laster SM, et al. **J Immunol** 1990 Feb 15;144(4):1438–43

Transmembrane signaling during natural killer cell-mediated cytotoxicity. Regulation by protein kinase C activation. Leibson PJ, et al. **J Immunol** 1990 Sep 1;145(5):1498–504

Human alveolar macrophage FcR-mediated cytotoxicity. Heteroantibody- versus conventional antibody-mediated target cell lysis. Levy PC, et al. **J Immunol** 1990 May 15; 144(10):3693–700

Transfection of beta 2-microglobulin restores IFN-mediated protection from natural killer cell lysis in YAC-1 lymphoma variants. Ljunggren HG, et al. **J Immunol** 1990 Jul 1;145(1):380–6

Induction of murine lymphokine-activated killer cells by recombinant IL-7. Lynch DH, et al. **J Immunol** 1990 Sep 15;145(6):1983–90

The gag-specific cytotoxic T lymphocytes in rhesus monkeys infected with the simian immunodeficiency virus of macaques. Miller MD, et al. **J Immunol** 1990 Jan 1; 144(1):122–8

Phenotypic profile and functions of T cell receptor-gamma delta-bearing cells from patients with primary immunodeficiency syndrome. Morio T, et al. **J Immunol** 1990 Feb 15;144(4):1270–5

Cytotoxic T lymphocyte triggering via CD16 is regulated by CD3 and CD8 antigens. Studies with T cell receptor (TCR)-alpha beta+/CD3+16+ and TCR-gamma delta+/CD3+16+ granular lymphocytes. Oshimi K, et al. **J Immunol** 1990 May 1;144(9):3312–7

Bovine natural killer-like cell responses against cell lines expressing recombinant bovine herpesvirus type 1 glycoproteins. Palmer LD, et al. **J Immunol** 1990 Aug 1; 145(3):1009–14

Identification and characterization of monoclonal antibodies specific for macrophages at intermediate stages in the tumoricidal activation pathway. Paulnock DM, et al. **J Immunol** 1990 Jan 15;144(2):765–73

Cytotoxicity of activated monocytes on endothelial cells. Peri G, et al. **J Immunol** 1990 Feb 15;144(4):1444–8

Surgical stress impairment of murine natural killer cell cytotoxicity involves pre- and postbinding events. Pollock RE, et al. **J Immunol** 1989 Nov 15;143(10):3396–403

Poly I:C activated macrophages are tumoricidal for TNF-alpha-resistant 3LL tumor cells. Remels L, et al. **J Immunol** 1990 Jun 1;144(11):4477–86

Alloantigen-specific cytotoxic clones bearing the alpha,beta T cell antigen receptor but not CD4 or CD8 molecules. Rivas A, et al. **J Immunol** 1990 Jul 15;145(2):470–6

Cytotoxic T lymphocyte unresponsiveness induced by prolonged treatment with immobilized anti-CD3 antibody. Association of impairment of cytolytic activity with temporary depletion of intracellular protein kinase C. Sano S, et al. **J Immunol** 1989 Nov 1;143(9):2797–805

Cytotoxic activity and lymphokine production of T cell receptor (TCR)-alpha beta+ and TCR-gamma delta+ cytotoxic T lymphocyte (CTL) clones recognizing HLA-A2 and HLA-A2 mutants. Recognition of TCR-gamraa delta+ CTL clones is affected by mutations at positions 152 and 156. Spits H, et al. **J Immunol** 1990 Jun 1;144(11):4156–62

Changes in homing receptor expression on murine lymphokine-activated killer cells during IL-2 exposure. Steen PD, et al. **J Immunol** 1989 Dec 15;143(12):4324–30

Generation of cytolytic activity with anti-CD3 monoclonal antibodies involves both IL-2-independent and -dependent components. Stohl W, et al. **J Immunol** 1990 May 15; 144(10):3718–25

The alpha 1/alpha 2 domains of class I HLA molecules confer resistance to natural killing. Storkus WJ, et al. **J Immunol** 1989 Dec 1;143(11):3853–7

Effects of stress on lysability of tumor targets by cytotoxic T cells and tumor necrosis factor. Sugawara S, et al. **J Immunol** 1990 Sep 15;145(6):1991–8

Activation-driven T cell death. I. Requirements for de novo transcription and translation and association with genome fragmentation. Ucker DS, et al. **J Immunol** 1989 Dec 1; 143(11):3461–9

Modulation of lymphokine release and cytolytic activities by activating peripheral blood lymphocytes via CD2. Valentin H, et al. **J Immunol** 1990 Feb 1;144(3):875–82

IFN-alpha and IFN-gamma can affect both monocytes and tumor cells to modulate monocyte-mediated cytotoxicity. Webb DS, et al. **J Immunol** 1990 May 1;144(9):3643–8

Potentiation of NK cytotoxicity by antibody-C3b/iC3b heteroconjugates. Yefenof E, et al. **J Immunol** 1990 Feb 15;144(4):1538–43

HIV-infected humans, but not chimpanzees, have circulating cytotoxic T lymphocytes that lyse uninfected CD4+ cells. Zarling JM, et al. **J Immunol** 1990 Apr 15;144(8):2992–8

Quantitation of effector-target affinity in the human NK cell and K562 tumor cell system. Garcia-Peñarrubia P, et al. **J Immunol Methods** 1989 Sep 1;122(2):177–84

A modified colorimetric assay of macrophage activation for intracellular cytotoxicity against Leishmania parasites. Kiderlen AF, et al. **J Immunol Methods** 1990 Feb 20; 127(1):11–8

Studies of the mechanism of natural killer (NK) degranulation and cytotoxicity. Atkinson EA, et al. **J Leukoc Biol** 1990 Jan;47(1):39–48

Role of C5a in the induction of tumoricidal activity in C3H/HeJ (Lpsd) and C3H/OuJ (Lpsn) macrophages. Hogan MM, et al. **J Leukoc Biol** 1989 Dec;46(6):565–70

Uncoupling of oxidative and non-oxidative mechanisms in human granulocyte-mediated cytotoxicity: use of cytoplasts and cells from chronic granulomatous disease patient. van Kessel KP, et al. **J Leukoc Biol** 1990 Oct; 48(4):359–66

Recurrent herpes simplex virus type 1 infection precipitated by the impaired production of interleukin-2, alpha-interferon, and cell-mediated cytotoxicity. Kuo YC, et al. **J Med Virol** 1990 Jul;31(3):183–9

Human oligodendrocytes are susceptible to cytolysis by major histocompatibility complex class I-restricted lymphocytes. Ruijs TC, et al. **J Neuroimmunol** 1990 May; 27(2-3):89–97

Complement mediated serum cytotoxicity against oligodendrocytes: a comparison with other cells of the oligodendrocyte-type 2 astrocyte lineage. Scolding NJ, et al. **J Neurol Sci** 1990 Jul;97(2-3):155–62

Monoclonal antibodies with cytotoxic reactivities against human gliomas. Nanda A, et al. **J Neurosurg** 1989 Dec; 71(6):892–7

The interaction of Naegleria fowleri amoebae with murine macrophage cell lines. Fischer-Stenger K, et al. **J Protozool** 1990 May-Jun;37(3):168–73

Immunoactive products of human placenta. II. Direct inhibition of non-MHC restricted cytolytic activity of human CD3 alpha-beta but not CD3 gamma-delta expressing T cell clones. Menu E, et al. **J Reprod Immunol** 1989 Nov;16(2):137–50

Mechanism of the damaging effect of dermatomyositis mononuclear cells on cultured human skin fibroblasts. Saito E, et al. **J Rheumatol** 1989 Aug;16(8):1055–60

The soluble viral glycoprotein of vesicular stomatitis virus efficiently sensitizes target cells for lysis by CD4+ T lymphocytes. Browning M, et al. **J Virol** 1990 Aug; 64(8):3810–6

Mechanism of killing by virus-induced cytotoxic T lymphocytes elicited in vivo. Welsh RM, et al. **J Virol** 1990 Aug;64(8):3726–33

Mechanism of escape of endogenous murine leukemia virus emv-14 from recognition by anti-AKR/Gross virus cytolytic T lymphocytes. White HD, et al. **J Virol** 1990 Jun;64(6):2608–19

Enhancement of polymorphonuclear leukocyte-mediated tumor cytotoxicity by serum factor(s). Araki A, et al. **Jpn J Cancer Res** 1990 Jan;81(1):69–78

Identification of a human T cell clone with the cytotoxic T lymphocyte and natural killer-like cytotoxic function against autologous mammary carcinoma and K562 line. Sato T, et al. **Jpn J Cancer Res** 1989 Jul;80(7):655–61

Killing of alveolar macrophages and of monocytes that have responded to granulocyte-macrophage colony-stimulating factor by human lymphokine-activated killer cells. Sone S, et al. **Jpn J Cancer Res** 1989 Jul;80(7):662–9

Enhancement of cytotoxicity of active macrophages by mycoplasma: role of mycoplasma-associated induction of tumor necrosis factor-alpha (TNF-alpha) in macrophages. Arai S, et al. **Microbiol Immunol** 1990;34(3):231–43

Characteristics of macrophage activation by gamma interferon for tumor cytotoxicity in peritoneal macrophages and macrophage cell line J774.1. Miyakawa Y, et al. **Microbiol Immunol** 1989;33(12):1027–38

Killers within us: the lethal hit [editorial] Wagner BM. **Mod Pathol** 1989 Sep;2(5):418–9

Tumorigenic sublethal whole-body X-irradiation of RFM mice enhances cell-mediated cytotoxicity while transiently depressing T- and B-lymphocytes. Hester RB, et al. **Mol Biother** 1989;1(5):244–9

Host immune responses to tumor cells augmented by bleomycin and their therapeutic effects on rat fibrosarcoma. Hosokawa M, et al. **Mol Biother** 1988;1(2):74–80

Decreased p21 levels in anti-sense ras transfectants augments NK sensitivity. Anderson SK, et al. **Mol Immunol** 1989 Oct;26(10):985–91

Selective killing of hepatitis B envelope antigen-specific B cells by class I-restricted, exogenous antigen-specific T lymphocytes. Barnaba V, et al. **Nature** 1990 May 17; 345(6272):258–60

Immunology. Stimulating killer cells [news; comment] Bevan MJ. **Nature** 1989 Nov 30;342(6249):478–9 Comment on: Nature 1989 Nov 30;342(6249):561–4.

In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine [see comments] Deres K, et al. **Nature** 1989 Nov 30;342(6249):561–4 Comment in: Nature 1989 Nov 30;342(6249):478–9.

Phenotypical study of human lymphokine-activated killer (LAK) cells. Barral AM, et al. **Neoplasma** 1989;36(5):583–8

Positive effect of direct current on cytotoxicity of human lymphocytes. Chudomel V, et al. **Neoplasma** 1989; 36(5):573–82

Natural killer activity and NK cytotoxic factors in peripheral blood and lymph node cells from non-Hodgkin's lymphoma patients. Nadkarni JJ, et al. **Neoplasma** 1989; 36(6):701–8

T-cell receptor-negative natural killer cells display antigen-specific cytotoxicity for microvascular endothelial cells. Bender JR, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):6949–53

Herpes simplex virus-infected cells disarm killer lymphocytes. Confer DL, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3609–13

Purification and characterization of cytolytic and noncytolytic human natural killer cell subsets. Lebow LT, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6063–7

Human cytotoxic T-cell responses against Epstein-Barr virus nuclear antigens demonstrated by using recombinant vaccinia viruses. Murray RJ, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2906–10

CD8+ T lymphocytes of patients with AIDS maintain normal broad cytolytic function despite the loss of human immunodeficiency virus-specific cytotoxicity. Pantaleo G, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4818–22

Long-term culture and fine specificity of human cytotoxic T-lymphocyte clones reactive with human immunodeficiency virus type 1. Walker BD, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9514–8

Presentation of human minor histocompatibility antigens by HLA-B35 and HLA-B38 molecules. Yamamoto J, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2583–7

The effects of 2.35-T MR imaging on natural killer cell cytotoxicity with and without interleukin-2. Prasad N, et al. **Radiology** 1990 Apr;175(1):261–3

Cytotoxic effects of sera from patients with systemic scleroderma: comparison of three different in vitro methods. Majewski S, et al. **Rheumatol Int** 1990;10(2):65–70

Natural killer and lymphokine-activated killer cell-mediated cytotoxicity in patients with oral cancer. Gangal SG, et al. **Semin Surg Oncol** 1989;5(5):347–50

Human Kupffer cells are cytotoxic against human colon adenocarcinoma. Roh MS, et al. **Surgery** 1990 Aug; 108(2):400–4; discussion 404–5

Two cytotoxic human-human hybridoma antibodies to HLA: TrAH10 (anti A3.1) and TrAG2 (anti B7, Bw42). Hansen T, et al. **Tissue Antigens** 1989 May;33(5):520–30

Interaction of Gc (vitamin-D binding protein) with membrane of activated natural cytolytic cells. Ades EW, et al. **Tokai J Exp Clin Med** 1988 Dec;13(6):293–7

Humoral immune reactions to pig antigens in humans. Pozzetto U, et al. **Transplant Proc** 1990 Aug;22(4):2000–1

Characterization of the B6.C-H-2bm-1 (H-2bm-1) cytotoxic T lymphocyte clonal response to EL4. Saunders PH, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):878–9

The alloreactive potential of T-like cells from athymic nude rats (rnu/rnu). Schwinzer R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):285–7

Nonspecific tissue destruction as a consequence of cytotoxic T lymphocyte interaction with antigen-specific target cells. Snider ME, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):421–3

An in vitro method of assessing the immunoprotective properties of microcapsule membranes using pancreatic and tumor cell targets. Soon-Shiong P, et al. **Transplant Proc** 1990 Apr;22(2):754–5

The alloimmune response to murine islets occurs via indirect antigen presentation to LYT2+ and L3T4+ lymphocytes. Stock PG, et al. **Transplant Proc** 1990 Apr;22(2):841–3

Comparison of spontaneous cell-mediated cytotoxicity with immunologically specific cytotoxicity in rat skin allografts. Tanaka S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):432–4

IgM-anti-IgG antibody as cause of positive B-cell crossmatches. Terness P, et al. **Transplant Proc** 1990 Aug; 22(4):1885–6

Analysis of the donor-specific cytotoxic T-cell repertoire in a patient with a long-term surviving kidney allograft. Vandekerckhove BA, et al. **Transplant Proc** 1990 Aug; 22(4):1871–2

Microcytotoxic HLA typing of cells directly isolated from blood by means of antibody-coated microspheres. Vartdal F, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):655–7

Augmentation of cell-mediated cytotoxicity following 50% partial hepatectomy. Flye MW, et al. **Transplantation** 1990 Mar;49(3):581–7

Specific absorption of lymphocytotoxic alloantibodies by the

liver in inbred rats. Gugenheim J, et al. **Transplantation** 1990 Aug;50(2):309–13

The F1 hybrid effect in allogeneic lymphocyte cytotoxicity. Points of similarity between hybrid resistance and ALC. Heslop BF, et al. **Transplantation** 1989 Oct;48(4):634–9

Increase of donor-specific cytotoxic T lymphocyte precursors after transfusion. Vandekerckhove BA, et al. **Transplantation** 1989 Oct;48(4):672–5

Cell mediated immune responses in ponies following infection with equine influenza virus (H3N8): the influence of induction culture conditions on the properties of cytotoxic effector cells. Hannant D, et al.
Vet Immunol Immunopathol 1989 Jul;21(3–4):327–37

Tumor necrosis factor mediated cytolysis requires the adenovirus E1a protein but not the transformed phenotype. Rodrigues M, et al. **Virus Res** 1990 Mar;15(3):231–6

In vitro proliferative and cytotoxic responses of PBL from Theileria annulata–immune cattle. Ahmed JS, et al.
Zentralbl Veterinarmed [B] 1989 Oct;36(8):584–92

[The significance of cytotoxic activity of maternal lymphocytes for the etiology of intrauterine growth retardation] Varga P, et al. **Z Geburtshilfe Perinatol** 1989 Jul–Aug;193(4):167–71 (Eng. Abstr.) **(Ger)**

[Activated macrophages and cytotoxicity] Yamamura Y.
Kekkaku 1989 Oct;64(10):679–81 (Eng. Abstr.) **(Jpn)**

[Cytotoxicity of lymphocytes sensitized by autologous tumor cells in vitro, against autologous lung cancer cell lines] Inaba H, et al. **Nippon Geka Gakkai Zasshi** 1990 Apr; 91(4):515–23 (Eng. Abstr.) **(Jpn)**

[Low activity of antioxidant enzymes in tumor cells as a factor of oxygen dependence of antitumor cytotoxicity of macrophages] Borunov EV, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):233–5 (Eng. Abstr.) **(Rus)**

[Group A streptococcal polysaccharide—stimulator of nonspecific cytotoxic reaction in autologous system of spleen cells] Gnezditskaia EV, et al.
Biull Eksp Biol Med 1990 Feb;109(2):167–9 (Eng. Abstr.) **(Rus)**

[Sensitivity of bone marrow cells damaged by antitumor drugs to cytotoxic action of effectors of a normal spleen] Klimova MIu, et al. **Biull Eksp Biol Med** 1990 Jan; 109(1):60–2 (Eng. Abstr.) **(Rus)**

[Cytolytic activity of macrophages and T-lymphocytes in regard to tumor cells in the presence of normal tissue cells] Lavrovskii VA, et al. **Eksp Onkol** 1990;12(4):77–8 (Eng. Abstr.) **(Rus)**

[The effect of catalytic subunit of cAMP-dependent protein kinase on the activity of cytotoxic factor from natural killer cells] Sashchenko LP, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1711–5 (Eng. Abstr.) **(Rus)**

[The natural cytotoxicity system in patients with multiple sclerosis: clinico–immunological parallels] Cheknev SB, et al. **Zh Nevropatol Psikhiatr** 1989;89(7):16–9 (Eng. Abstr.) **(Rus)**

[Effects of sera from patients with amyotrophic lateral sclerosis on neural tissue in vivo and in vitro] Gannushkina IV, et al. **Zh Nevropatol Psikhiatr** 1990;90(2):35–8 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Influence of ethanol consumption on natural killer cell activity in mice. Meadows GG, et al. **Alcoholism (N Y)** 1989 Aug;13(4):476–9

In vitro effect of acetaldehyde on cell-mediated cytotoxicity by murine spleen cells. Walia AS, et al.
Alcoholism (N Y) 1989 Dec;13(6):766–71

Activation of antitumor cytotoxicity of human blood mononuclear cells by a basic factor from dialysable human–leukocyte extract. Doelker I, et al.
Anticancer Res 1989 Nov–Dec;9(6):1915–20

Regulation of natural killer cytotoxicity by recombinant alpha interferons. Augmentation by IFN–alpha 7, an interferon similar to IFN–alpha J. Platsoucas CD, et al.
Anticancer Res 1989 Jul–Aug;9(4):849–58

Intracellular Ca2+ and cytotoxicity. Lynn WS, et al.
Arch Environ Health 1989 Sep–Oct;44(5):323–30

Activation of natural killer cell cytotoxicity of human blood monocytes by a low molecular weight component from viscum album extract. Klett CY, et al.
Arzneimittelforschung 1989 Dec;39(12):1580–5

Stress–induced suppression of natural killer cell cytotoxicity in the rat: a naltrexone–insensitive paradigm. Ben–Eliyahu S, et al. **Behav Neurosci** 1990 Feb;104(1):235–8

HRF20, a membrane inhibitor of complement attack, does not protect cells from the cytotoxic reaction by lymphokine activated killer cells. Okada H, et al.
Biochem Biophys Res Commun 1990 Sep 14;171(2):717–21

Are laminin binding sites on tumor cell surface involved in the indomethacin–induced sensitivity to natural cytotoxic cells? Aliño SF, et al. **Biol Cell** 1989;66(3):255–61

Comparison between crude interleukin–2 and recombinant interleukin–2 in maintaining killing activity of cultured lymphocytes. Nakanishi M, et al. **Biotherapy** 1990; 2(1):21–32

Recombinant interleukin–2 (rIL–2) with flavone acetic acid (FAA) in advanced malignant melanoma: immunological studies. Ghosh AK, et al. **Br J Cancer** 1990 Mar;61(3):471–4

Recombinant gamma interferon provokes resistance of human breast cancer cells to spontaneous and IL–2 activated non–MHC restricted cytotoxicity. Jabrane–Ferrat N, et al. **Br J Cancer** 1990 Apr;61(4):558–62

Aldicarb suppresses macrophage but not natural killer (NK) cell–mediated cytotoxicity of tumor cells. Selvan RS, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):676–82

Dexamethasone used as an antiemetic in chemotherapy protocols inhibits natural cytotoxic (NC) cell activity. Powell CB, et al. **Cancer** 1990 Feb 1;65(3):466–72

Comparative effects of fagaronine, adriamycin and aclacinomycin on K562 cell sensitivity to natural-killer–mediated lysis. Lack of agreement between alteration of transferrin receptor and CD15 antigen expressions and induction of resistance to natural killer. Benoist H, et al. **Cancer Immunol Immunother** 1989; 30(5):289–94

Leukoregulin up–regulation of tumor cell sensitivity to natural killer and lymphokine–activated killer cell cytotoxicity. Furbert–Harris PM, et al.
Cancer Immunol Immunother 1989;30(2):86–91

Interleukin–6 enhances the induction of human lymphokine–activated killer cells. Gallagher G, et al.
Cancer Immunol Immunother 1990;31(1):49–52

Effects of opioid peptides on the cellular immunity in spleen cells from intact nude mice or nude mice bearing human ovarian carcinoma. Kikuchi Y, et al.
Cancer Immunol Immunother 1990;30(6):374–6

Induction of cytotoxicity from fresh splenocytes after in vivo administration of cyclophosphamide. Importance of long–term culture with high–dose recombinant interleukin–2. Kim R, et al.
Cancer Immunol Immunother 1989;30(5):283–8

Interferon–gamma (IFN–gamma) and interleukin–2 in the generation of lymphokine–activated killer cell cytotoxicity—IFN–gamma–induced suppressive activity. Toledano M, et al. **Cancer Immunol Immunother** 1989; 30(1):57–64

Autologous and allogenic natural cell mediated cytotoxicity at the single cell level: divergent effects of interferons and interleukin 2 on binding and lysis. Klappacher G.
Cancer Lett 1989 Sep 15;47(1–2):69–77

Potentiation of natural killer cell activity and tumor immunity by diacetylputrescine. Bowlin TL, et al. **Cancer Res** 1990 Sep 1;50(17):5460–3

Mechanism of tumoricidal activity of OK–432–specific L3T4+ Lyt2– T–cells. Ozaki S, et al. **Cancer Res** 1990 Aug 1;50(15):4630–4

Adenosine receptors and modulation of natural killer cell activity by purine nucleosides. Priebe T, et al.
Cancer Res 1990 Jul 15;50(14):4328–31

Role of natural killer cells and macrophages in the nonspecific resistance to tumors in mice stimulated with SMANCS, a polymer–conjugated derivative of neocarzinostatin. Suzuki F, et al. **Cancer Res** 1990 Jul 1; 50(13):3897–904

Activation of human peripheral blood–derived monocytes by OK–432 (Streptococcus pyogenes): augmented cytotoxicity and secretion of TNF and synergy with rIFN–gamma. Bonavida B, et al. **Cell Immunol** 1989 Oct 15;123(2):373–83

Induction of tumor cytotoxic immune cells using a protein from the bitter melon (Momordica charantia). Cunnick JE, et al. **Cell Immunol** 1990 Apr 1;126(2):278–89

Differential effects of protein synthesis inhibition on CTL and targets in cell–mediated cytotoxicity. Landon C, et al. **Cell Immunol** 1990 Jul;128(2):412–26

Inhibition of human NK cell and LAK cell cytotoxicity and differentiation by PGE2. Leung KH. **Cell Immunol** 1989 Oct 15;123(2):384–95

Interleukin–1 alpha and tumor necrosis factor–alpha protect cells against natural killer cell–mediated cytotoxicity and natural killer cytotoxic factor. Reiter Z, et al.
Cell Immunol 1990 Feb;125(2):326–36

Enhancement of monocyte–mediated tumoricidal activity by multiple interferon–alpha species. Webb DS, et al.
Cell Immunol 1989 Nov;124(1):158–67

Differential augmentation of in vivo natural killer cytotoxicity in normal primates with recombinant human interleukin–1 and granulocyte–macrophage colony–stimulating factor. Davis TA, et al.
Clin Exp Immunol 1990 Mar;79(3):436–42

Interleukin–2 can induce suppression of human natural killer cell cytotoxicity. Hellstrand K, et al. **Clin Exp Immunol** 1989 Sep;77(3):410–6

Anesthesia inhibits poly I:C induced stimulation of natural killer cell cytotoxicity in mice. Markovic SN, et al.
Clin Immunol Immunopathol 1990 Aug;56(2):202–9

Effects of phorbol esters and calcium ionophore on nonspecific cytotoxic cells. Evans DL, et al.
Dev Comp Immunol 1990 Spring;14(2):223–30

The role of glycosphingolipids in natural immunity. Gangliosides modulate the cytotoxicity of natural killer cells. Bergelson LD, et al. **Eur J Immunol** 1989 Nov; 19(11):1979–83

OK–432 and IL–2–augmented cytotoxicity of human natural killer cells and cytotoxic T lymphocytes at the clonal level. Gravekamp C, et al. **FEMS Microbiol Immunol** 1988 Jan; 1(1):31–9

Differences in the induction of macrophage cytotoxicity by the specific T lymphocyte factor, specific macrophage arming factor (SMAF), and the lymphokine, macrophage activating factor (MAF). De Groot JW, et al.
Immunobiology 1989 Jun;179(2–3):131–44

An immunopharmacological analysis of adrenaline–induced suppression of human natural killer cell cytotoxicity. Hellstrand K, et al. **Int Arch Allergy Appl Immunol** 1989; 89(4):334–41

Cocaine or delta 9–tetrahydrocannabinol does not affect cellular cytotoxicity in vitro. Lu F, et al.
Int J Immunopharmacol 1989;11(7):849–52

Enhancement of human monocyte cytotoxicity by both interferon–gamma and –beta and comparison to other stimuli. Sharon N, et al. **Int J Immunopharmacol** 1989; 11(7):743–9

Reconstitution of cytolytic alloreactivity with N–[4–[(4–fluorophenyl) sulfonyl]phenyl]acetamide (CL 259,763) in animals immunocompromised by cyclophosphamide. Wang BS, et al.
Int J Immunopharmacol 1989;11(5):479–86

Generation of tumoricidal effector cells by human C–reactive protein and muramyl tripeptide: a comparative study. Gautam S, et al. **J Biol Response Mod** 1989 Oct;8(5):560–9

Cytokine augmentation of human immunodeficiency virus type 1 (HIV–1) gp120–specific cellular cytotoxicity. Stine KC, et al. **J Biol Response Mod** 1989 Oct;8(5):501–10

Modulation of human alveolar macrophage tumoricidal activity by recombinant macrophage colony–stimulating factor. Thomassen MJ, et al. **J Biol Response Mod** 1990 Feb;9(1):87–91

In vitro cellular cytotoxicity in Crohn's disease and ulcerative colitis: relation with disease activity and treatment, and the effect of recombinant gamma–interferon. Aparició–Pagés MN, et al. **J Clin Lab Immunol** 1989 Jul; 29(3):119–24

A serum factor that suppresses the cytotoxic function of cytokine–stimulated human eosinophils. Silberstein DS, et al. **J Exp Med** 1990 Mar 1;171(3):681–93

Natural killer and lymphokine–activated killer cell activities from human marrow precursors. II. The effects of IL–3 and IL–4. Keever CA, et al. **J Immunol** 1989 Nov 15; 143(10):3241–9

Inhibitors of C1q biosynthesis suppress activation of murine macrophages for both antibody–independent and antibody–dependent tumor cytotoxicity. Leu RW, et al.
J Immunol 1990 Mar 15;144(6):2281–6

Free fatty acids inhibit cytotoxic T lymphocyte–mediated lysis of allogeneic target cells. Richieri GV, et al.
J Immunol 1990 Aug 15;145(4):1074–7

Lack of an influence of dietary fat on murine natural killer cell activity. Erickson KL, et al. **J Nutr** 1989 Sep; 119(9):1311–7

Kinetics of cell–mediated cytotoxicity in mice fed diets of various fat contents. Olson LM, et al. **J Nutr** 1990 Jun; 120(6):619–24

T–cell responses to predicted amphipathic peptides of varicella–zoster virus glycoproteins II and IV. Hayward AR. **J Virol** 1990 Feb;64(2):651–5

Human recombinant macrophage colony stimulating factor activates murine Kupffer cells to a cytotoxic state. Curley SA, et al. **Lymphokine Res** 1990 Fall;9(3):355–63

Enhancement by recombinant interferon–gamma of spontaneous tumor cytostasis by human neutrophils. Miyake Y, et al. **Mol Biother** 1988;1(1):37–42

Lymphokine release, suppressor cell generation, cell surface markers, and cytotoxic activity in cancer patients receiving natural interleukin–2. Pawelec G, et al. **Mol Biother** 1990 Mar;2(1):44–9

Selective isocoumarin serine protease inhibitors block RNK–16 lymphocyte granule–mediated cytolysis. Hudig D, et al. **Mol Immunol** 1989 Aug;26(8):793–8

Specific recognition of staphylococcal enterotoxin A by human T cells bearing receptors with the V gamma 9 region. Rust CJ, et al. **Nature** 1990 Aug 9;346(6284):572–4

Influence of Viscum album preparations on the natural killer cell–mediated cytotoxicity of peripheral blood. Hülsen H, et al. **Naturwissenschaften** 1989 Nov;76(11):530–1

Central corticotropin releasing factor reduces natural cytotoxicity. Time course of action. Irwin M, et al.
Neuropsychopharmacology 1989 Dec;2(4):281–4

Effect of Toxoplasma lysate antigen (TLA) on feline cytotoxicity against FeLV positive lymphoma cells. Yang MP, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):735–42

Tenascin, an extracellular matrix protein, exerts immunomodulatory activities. Rüegg CR, et al.
Proc Natl Acad Sci U S A 1989 Oct;86(19):7437–41

Mechanism of L–leucyl–L–leucine methyl ester–mediated killing of cytotoxic lymphocytes: dependence on a lysosomal thiol protease, dipeptidyl peptidase I, that is enriched in these cells. Thiele DL, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(1):83–7

Selenium and immune cell functions. II. Effect on lymphocyte–mediated cytotoxicity. Roy M, et al.
Proc Soc Exp Biol Med 1990 Feb;193(2):143–8

In vitro effects of ethanol and acetaldehyde on cell–mediated cytotoxicity. Walia AS, et al. **Prog Clin Biol Res** 1990; 325:145–53

Suppression by morphine and ethanol of tumor cell cytotoxic activity released by macrophages from retrovirally infected mice upon in vitro stimulation by beta carotene. Watson RR, et al. **Prog Clin Biol Res** 1990;325:79–91

Effects of a stable prostacyclin analogue on platelet activity and on host immunocompetence in mice. Costantini V, et al. **Prostaglandins** 1990 Jun;39(6):581–99

Comparison of the effect of lipoxygenase metabolites of arachidonic acid and eicosapentaenoic acid on human natural killer cell cytotoxicity. Chang KJ, et al.
Prostaglandins Leukot Essent Fatty Acids 1989 Nov; 38(2):87–90

Swainsonine, an inhibitor of glycoprotein processing, enhances cytotoxicity of large granular lymphocytes. Yagita M, et al. **Scand J Immunol** 1990 Mar;31(3):275–82
Soluble antigen and cyclosporine-induced specific unresponsiveness in rats. Frequency of alloantigen-specific T cytotoxic cells in normal, sensitized, and unresponsive rats. Ito T, et al. **Transplantation** 1990 Feb;49(2):422–8
Effect of cyclosporine on secondary cytotoxic T lymphocyte responses. Kiziroglu F, et al. **Transplantation** 1990 May; 49(5):961–5
Effect of FK506 treatment on allocytolytic T lymphocyte induction in vivo: differential effects of FK506 on L3T4+ and Ly2+ T cells. Maruyama M, et al. **Transplantation** 1990 Aug;50(2):272–7
The immunosuppressive action of FK506. In vitro induction of allogeneic unresponsiveness in human CTL precursors. Thomas J, et al. **Transplantation** 1990 Feb;49(2):390–6
Interleukin-2 activated cells from peripheral blood of patients with systemic lupus erythematosus. Jira M, et al. **Z Rheumatol** 1990 Jan–Feb;49(1):30–3
[Immunoregulatory effects of monomer T4 from Tripterygium wilfordii hook. I. Immunoregulatory effects of T4 on NK activity of mouse splenocytes] Lou D, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Apr;12(2):115–20 (Eng. Abstr.) **(Chi)**
[The in vitro effect of silica fibers on macrophage-mediated cytotoxic activities in mice] Yin L. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):287–92 (Eng. Abstr.) **(Chi)**
[The role of interferons in neuroblastoma. 2: Immunomodulatory effects] Handgretinger R, et al. **Klin Padiatr** 1990 Jul–Aug;202(4):206–11 (Eng. Abstr.) **(Ger)**
[The inhibitory effect of oxatomide, an anti-allergic agent, on eosinophil-mediated and eosinophilic cell line-mediated natural cytotoxicity against bronchial epithelial cells] Chihara J, et al. **Arerugi** 1989 Oct;38(10):1180–4 (Eng. Abstr.) **(Jpn)**
[Induction of activated natural killer cells by the streptococcal preparation OK432 (I). Induction from spleen cells of normal or tumor-bearing mouse primed in vivo and subsequently challenged in vitro with OK432] Yamaue H, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Jul 20; 24(7):1370–8 (Eng. Abstr.) **(Jpn)**
[Cellular cytotoxicity in the studies of immunosuppressive activity of drugs] Wasik M, et al. **Pol Arch Med Wewn** 1988 Aug–Sep;80(2–3):105–12 (Eng. Abstr.) **(Pol)**
[Interferon—properties and action] Zamorska I, et al. **Wiad Lek** 1989 Oct 1–Nov 1;42(19–21):1086–91 (Eng. Abstr.) **(Pol)**
[Study of immunotoxic properties of formaldehyde] Sharetskiĭ AN, et al. **Gig Sanit** 1989 Jul;(7):69–70 **(Rus)**
[The effect of human recombinant interleukin-2 on natural cytotoxicity in patients with dilated cardiomyopathy] Aleksandrova EN, et al. **Ter Arkh** 1989;61(11):111–4 **(Rus)**
[Changes caused by staphylococcal protein A and gamma interferon on the natural cytotoxic activity in patients with cancer] Subirá ML, et al. **Rev Esp Fisiol** 1989;45 Suppl:239–44 (Eng. Abstr.) **(Spa)**

GENETICS

NK cell-induced cytotoxicity is dependent on a Ca2+ increase in the target. McConkey DJ, et al. **FASEB J** 1990 Jun;4(9):2661–4
High expression of the c-myc oncogene renders melanoma cells prone to lysis by natural killer cells. Versteeg R, et al. **J Immunol** 1989 Dec 15;143(12):4331–7
Patterns of T cell receptor gamma gene rearrangements in human CD3+ clones derived from WT31- or Leu7+ cells in relation to non-MHC-restricted cytotoxic activity. Christmas SE. **Nat Immun Cell Growth Regul** 1989; 8(6):301–12
H-2 restriction and serotype crossreactivity of anti-reovirus cytotoxic T lymphocytes (CTL). Parker SE, et al. **Viral Immunol** 1990 Spring;3(1):77–87

IMMUNOLOGY

Abnormal macrophages and NK cell cytotoxicity in human systemic lupus erythematosus and the role of interferon and serum factors. Zippel D, et al. **Acta Virol (Praha)** 1989 Sep;33(5):447–53
Prostacyclin release and cytotoxicity of peritoneal cells are inversely related in pregnant and non-pregnant mice infected with herpes simplex virus. Loftin KC, et al. **Am J Reprod Immunol** 1989 Aug;20(4):135–9
Differential regulation by interleukin-4 and interferon-gamma of an autologous melanoma-specific cytotoxic T-cell clone and the tumor-infiltrating lymphocytes from which it was established. Yamada T, et al. **Cancer Commun** 1990;2(3):113–21
Human trophoblast and JEG choriocarcinoma cells are sensitive to lysis by IL-2-stimulated decidual NK cells. King A, et al. **Cell Immunol** 1990 Sep;129(2):435–48
Induction of LAK-like cells in the peritoneal cavity of mice by inactivated Candida albicans. Scaringi L, et al. **Cell Immunol** 1990 Sep;129(2):271–87
Lysis of human alveolar macrophages by lymphokine-activated killer cells. Maruyama M, et al. **Chest** 1990 Jun;97(6):1372–6
Natural killer activity and antibody-dependent cellular cytotoxicity in progressive systemic sclerosis. Grazia Cifone M, et al. **Clin Exp Immunol** 1990 Jun;80(3):360–5
Physical exercise increases natural cellular-mediated tumor cytotoxicity in elderly women. Crist DM, et al. **Gerontology** 1989;35(2–3):66–71
Evaluation of cytotoxic cell-target cell conjugates. Comparison between flow cytometric analysis and 51Cr binding assay. Heltai S, et al. **Haematologica** 1990 Mar–Apr; 75(2):191–3
Induction of nonspecific cell-mediated cytotoxicity: a multisignal event and its cellular regulation. Atzpodien J, et al. **Hamatol Bluttransfus** 1989;32:273–80
Signal transduction mechanisms in human natural killer cells mediating antitumor immunity. Leibson PJ, et al. **Hamatol Bluttransfus** 1989;32:281–3
Augmentation of recombinant interleukin-2-dependent murine macrophage-mediated tumour cytotoxicity by recombinant tumour necrosis factor-alpha. Kos FJ. **Immunol Cell Biol** 1989 Dec;67 (Pt 6):433–6
The effect of different nutritional states on cell-mediated cytotoxicity. Vaisman N, et al. **Immunol Lett** 1990 Mar–Apr;24(1):37–41
Cell populations in the human early pregnancy decidua: natural killer activity and response to interleukin-2 of CD56-positive large granular lymphocytes. Ferry BL, et al. **Immunology** 1990 Aug;70(4):446–52
Differential requirement for protein synthesis in cytolysis mediated by class I and class II MHC-restricted cytotoxic T cells. Tite JP. **Immunology** 1990 Aug;70(4):440–5
Homologous species restriction of the complement-mediated killing of nucleated cells. Yamamoto H, et al. **Immunology** 1990 Aug;70(4):422–6
Immunologic analysis of cerebrospinal fluid lymphocytes in Vogt-Koyanagi-Harada disease. Norose K, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1210–6
Cytotoxic and immune complex reactions. Lockey RF. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 2):1032–5
Motivational syndromes associated with natural killer cell activity. Jemmott JB 3d, et al. **J Behav Med** 1990 Feb; 13(1):53–73
Heterogeneity of cell surface structures involved in cytotoxicity mediated by lymphokine activated killer cells. Bean P, et al. **J Biol Response Mod** 1990 Feb;9(1):92–7
Heterogeneity in lectin-binding characteristics of human lymphokine-activated killer cells. Maruyama T, et al. **J Biol Response Mod** 1990 Aug;9(4):378–86
Generation of syngeneic anti-tumour double negative cells (CD4- CD8-), with cytotoxic activity against clones of different MHC class I expression. Caballero A, et al. **J Immunogenet** 1989 Aug–Oct;16(4–5):321–8
An improved double fluorescence flow cytometry method for the quantification of killer cell/target cell conjugate formation. Cavarec L, et al. **J Immunol Methods** 1990 Jul 3;130(2):251–61
Natural killer (NK) cell response after vaccination of volunteers with killed influenza vaccine. Schapiro JM, et al. **J Med Virol** 1990 Mar;30(3):196–200
Murine monoclonal anti-myelin basic protein (MBP) antibodies inhibit proliferation and cytotoxicity of MBP-specific human T cell clones. Zhang JW, et al. **J Neuroimmunol** 1989 Sep;24(1–2):87–94
Measurement of natural killer activity and target cell binding by mouse metrial gland cells isolated by enzymic or mechanical methods. Parr EL, et al. **J Reprod Fertil** 1990 Jan;88(1):283–94
High cytotoxic cell activity in the marrow from patients with aplastic anemia. Morikawa K, et al. **Jpn J Med** 1989 Sep–Oct;28(5):585–92
Natural killer (NK) cell activity in patients with various malignancy against a variety of target cell lines: re-evaluation of clinical significance of natural killer cell activity. Morikawa K, et al. **Jpn J Med** 1989 Jul–Aug; 28(4):462–70
Depressed natural killer (NK) function in blood and marrow is related to the decrease in CD 11+ cells in acute leukemia. Morikawa K, et al. **Jpn J Med** 1989 Jul–Aug; 28(4):485–91
Inhibition of human natural killer cell activity by polyclonal IgM. Manciulea M, et al. **Mol Immunol** 1989 Dec; 26(12):1087–93
Impaired generation of anti-viral cytotoxicity against lymphocytic choriomeningitis and vaccinia virus in mice treated with CD4-specific monoclonal antibody. Leist TP, et al. **Scand J Immunol** 1989 Dec;30(6):679–86
Bovine natural cell mediated cytotoxicity (NCMC): activation by cytokines. Jensen J, et al. **Vet Immunol Immunopathol** 1990 Feb;24(2):113–24
Peripheral blood lymphocytes resistant to Epstein-Barr virus immortalization manifest high natural killer (NK) type activity against NK-resistant target cells [published erratum appears in Viral Immunol 1990 Summer;3(2):171] Gosselin J, et al. **Viral Immunol** 1990 Spring;3(1):55–65
The membrane attack pathway of complement. Esser AF. **Year Immunol** 1989–90;6:229–44 (82 ref.)
[New perspectives in the treatment of cancer] Degos L. **Pathol Biol (Paris)** 1989 Nov;37(9):979–80 **(Fre)**
[The role of adherent cells in supporting natural cytotoxicity reactions] Sorokin AM, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):322–5 (Eng. Abstr.) **(Rus)**
[Antibody-dependent cell cytotoxicity and spontaneous cytotoxicity of peripheral blood lymphocytes of organ recipients and cells infiltrating the kidney allogeneic transplant] Drannik GN, et al. **Fiziol Zh** 1989 Sep–Oct; 35(5):68–72 (Eng. Abstr.) **(Rus)**
[The natural cytotoxicity and morphofunctional status of the surface of mononuclear cells of the blood in neurodermatitis in children] Finkel'shtein BB, et al. **Vestn Dermatol Venerol** 1989;(8):38–41 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Muscle regeneration and cell-mediated cytotoxicity in the autologous muscle culture of dermatomyositis. Hayashi Y, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):53–5
Lymphocyte-mediated responses: activation of, and lysis by, cytotoxic lymphocytes. Bolhuis RL, et al. **Curr Opin Immunol** 1988 Dec;1(2):236–40 (18 ref.)
Cytolytic mechanisms of the immune system. Zychlinsky A, et al. **Curr Opin Immunol** 1988 Sep–Oct;1(1):63–9 (33 ref.)
Complement-dependent antibody-mediated cytotoxicity in the spontaneously diabetic BB/OK rat: association with beta cell volume density. Hehmke B, et al. **Eur J Immunol** 1990 May;20(5):1091–6
Vascular endothelial cell killing by combinations of membrane-active agents and hydrogen peroxide. Ginsburg I, et al. **Free Radic Biol Med** 1989;7(4):369–76
A novel autoregulatory cytokine is required for the regulation of autoaggressive responses. Rosenkrantz K, et al. **Hum Immunol** 1990 Mar;27(3):254–64
Implications of leukoregulin to autologous tumor-specific human T-cell populations. Slingluff CL Jr, et al. **J Biol Response Mod** 1990 Aug;9(4):387–94
Effect of conjugate size on the kinetics of cell-mediated cytotoxicity at the population level. Garcia-Peñarrubia P, et al. **J Theor Biol** 1989 May 9;138(1):93–115
Structure of perforin and its role in cytolysis. Podack ER, et al. **Year Immunol** 1989–90;6:245–61 (74 ref.)

RADIATION EFFECTS

Prevention of graft rejection in allogeneic bone marrow transplantation. II. Preclinical studies with three radiation protocols. Malilay GP, et al. **Transplantation** 1990 Sep; 50(3):406–10
Prevention of the induction of allospecific cytotoxic T lymphocyte and delayed-type hypersensitivity responses by ultraviolet irradiation of corneal allografts. Niederkorn JY, et al. **Transplantation** 1990 Aug;50(2):281–6
[Cytostatic and growth-stimulating effects of alveolar macrophages of rats on tumor cells] Hu LP, et al. **Shih Yen Sheng Wu Hsueh Pao** 1990 Jun;23(2):213–7 (Eng. Abstr.) **(Chi)**

CYTOTOXICITY TESTS, IMMUNOLOGIC

Use of a Chinese hamster ovary cell cytotoxicity assay for the rapid diagnosis of pertussis. Halperin SA, et al. **J Clin Microbiol** 1990 Jan;28(1):32–8
MTT colorimetric assay for testing macrophage cytotoxic activity in vitro. Ferrari M, et al. **J Immunol Methods** 1990 Aug 7;131(2):165–72
Cytotoxic effects of sera from patients with systemic scleroderma: comparison of three different in vitro methods. Majewski S, et al. **Rheumatol Int** 1990;10(2):65–70
[Is the fluorescence cytotoxicity test for the determination of HLA-DR antigens more sensitive than the classical microcytotoxicity test?] Pražák J, et al. **Cas Lek Cesk** 1989 Aug 11;128(33):1047–9 (Eng. Abstr.) **(Cze)**
[Relation of the effect of human complement in the cytotoxic test to the origin of the HLA serum] Májský A. **Vnitr Lek** 1989 Nov;35(11):1102–5 (Eng. Abstr.) **(Cze)**
[Clinical significance of cell-mediated immunity tests] Kasakura S. **Nippon Rinsho** 1990 Feb;48 Suppl:708–11 **(Jpn)**

INSTRUMENTATION

A microcalorimetric vessel for monitoring cytotoxic reactions in the micro-submicrowatt region. Thorén SA, et al. **J Biochem Biophys Methods** 1990 Mar;20(3):217–25
Automation of limiting dilution cytotoxicity assays. Alp NJ, et al. **J Immunol Methods** 1990 May 25;129(2):269–76

METHODS

The stimulation of EL-4 cells to produce interleukin-2 and its potential use in immunocytotoxicity testing. Lasek W, et al. **Immunopharmacol Immunotoxicol** 1989; 11(2–3):379–96
Natural killer cytotoxicity in the diagnosis of immune dysfunction: criteria for a reproducible assay. Whiteside TL, et al. **J Clin Lab Anal** 1990;4(2):102–14 (56 ref.)
A new sensitive assay for measurement of cell-mediated cytotoxicity to intact layers of cultured human keratinocytes. De Bueger MM, et al. **J Immunol Methods** 1990 Feb 20;127(1):117–22
Towards an optimized MTT assay. Nikš M, et al. **J Immunol Methods** 1990 Jun 12;130(1):149–51
Evaluation of autolymphocytoxic antibody in the highly presensitized patient. Ettenger R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):775–6
[Method of the lymphocytotoxicity test for HLA typing] Araki N, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:765–9 **(Jpn)**

[Clinical significance of the antibody-dependent cellular cytotoxicity test] Kawai T. **Nippon Rinsho** 1990 Feb;48 Suppl:705–7 **(Jpn)**

[A spectrophotometric method of determining the cytotoxic activity of HBsAg-sensitized lymphocytes] Derechinskaia EL, et al. **Lab Delo** 1989;(12):25–9 (Eng. Abstr.) **(Rus)**

STATISTICS & NUMERICAL DATA

Lytic units reconsidered: pitfalls in calculation and usage. Pollock RE, et al. **J Clin Lab Anal** 1990;4(4):274–82

CYTOTOXIN-ANTIBODY CONJUGATES see **IMMUNOTOXINS**

CYTOTOXINS

New insights into the haemolytic uraemic syndromes. Milford DV, et al. **Arch Dis Child** 1990 Jul;65(7):713–5 (29 ref.)

Cytotoxin-negative Clostridium difficile [letter; comment] Beaman MH, et al. **Aust N Z J Med** 1990 Feb;20(1):99–100 Comment on: Aust N Z J Med 1989 Feb;19(1):31–6.

Different effects of chlorpromazine on bleomycin- and epirubicin induced cytotoxicity. Grankvist K, et al. **Biosci Rep** 1990 Apr;10(2):173–7

Cell detachment and growth of fibroblasts as parameters for cytotoxicity of inorganic metal salts in vitro. Reinhardt CA, et al. **Cell Biol Toxicol** 1985 Jan;1(2):33–43

Amino acid sequences of cytotoxin-like basic proteins derived from cobra venoms. Inoue S, et al. **FEBS Lett** 1989 Nov 6;257(2):319–23

Cytotoxic activity of the Proteus hemolysin HpmA. Swihart KG, et al. **Infect Immun** 1990 Jun;58(6):1861–9

Toxin A of Clostridium difficile is a potent cytotoxin. Tucker KD, et al. **J Clin Microbiol** 1990 May;28(5):869–71

Enterohaemorrhagic E. coli 0157:H7 in central Australia [letter] Albert MJ, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):96–7

Betel cytotoxicity. Sen S, et al. **J Ethnopharmacol** 1989 Oct; 26(3):217–47 (179 ref.)

ADVERSE EFFECTS

Inhalation hazards from airborne particulates evaluated by in vitro cyto- and genotoxicity testing: a long-term study over a period of 14 years (1975–1988) from a highly industrialized area. Seemayer NH, et al. **Exp Pathol** 1989; 37(1–4):228–30

Acute liver decompensation on withdrawal of cytotoxic chemotherapy and immunosuppressive therapy in hepatitis B carriers [see comments] Bird GL, et al. **Q J Med** 1989 Oct;73(270):895–902 Comment in: Q J Med 1989 Oct;73(270):873–4.

Acute liver decompensation on withdrawal of cytotoxic chemotherapy and immunosuppressive therapy in hepatitis B carriers: implications for the treatment of chronic HBV carriers [editorial; comment] Thomas HC. **Q J Med** 1989 Oct;73(270):873–4 Comment on: Q J Med 1989 Oct;73(270):895–902.

ANALYSIS

Intercomparison of small biomolecules by gel filtration and small angle scattering. Martel P, et al. **Anal Biochem** 1990 May 1;186(2):350–4

Natural killer cell-mediated lysis of herpes simplex virus-infected fibroblasts: inability to detect soluble factors that contribute to lysis. Oh SH, et al. **Cell Immunol** 1990 May;127(2):221–9

Feacal carriage of cytotoxigenic strains of Clostridium difficile by adult Nigerians. Rotimi VO, et al. **East Afr Med J** 1989 May;66(5):319–23

Biotesting of wastewater: a comparative study using the Salmonella and CHO assay systems. Waters LC, et al. **Environ Mol Mutagen** 1989;14(4):254–63

Prevalence of verocytotoxigenic Escherichia coli in ground beef, pork, and chicken in southwestern Ontario. Read SC, et al. **Epidemiol Infect** 1990 Aug;105(1):11–20

Isolation, characterization, and host-cell-binding properties of a cytotoxin from Campylobacter jejuni. Mahajan S, et al. **J Clin Microbiol** 1990 Jun;28(6):1314–20

The association of Shiga toxin and other cytotoxins with the neurologic manifestations of shigellosis. Ashkenazi S, et al. **J Infect Dis** 1990 May;161(5):961–5

A method for detecting Shiga toxin and Shiga-like toxin-I in pure and mixed culture. Ashkenazi S, et al. **J Med Microbiol** 1990 Aug;32(4):255–61

Detection of cytotoxic necrotising factor (CNF) in extracts of Escherichia coli strains by enzyme-linked immunosorbent assay. Tabouret M, et al. **J Med Microbiol** 1990 Jun;32(2):73–81

Rapid identification of toxigenic Clostridium difficile by polymerase chain reaction [letter] Wren B, et al. **Lancet** 1990 Feb 17;335(8686):423

Cytotoxic component(s) of Klebsiella oxytoca on HEp-2 cells. Higaki M, et al. **Microbiol Immunol** 1990;34(2):147–51

A colourimetric, microplate assay for the leucotoxin of Pasteurella haemolytica. Craig FF, et al. **Vet Microbiol** 1990 May;22(4):309–17

ANTAGONISTS & INHIBITORS

Protection against membrane-mediated cytotoxicity by calcium and zinc. Mahadevan D, et al. **Am J Pathol** 1990 Mar;136(3):513–20

Effects of thiol compounds versus the cytotoxicity of valepotriates on cultured hepatoma cells. Keochanthala-Bounthanh C, et al. **Planta Med** 1990 Apr; 56(2):190–2

The effect of Pasteurella haemolytica cytotoxin on bovine polymorphonuclear leukocytes can be attenuated by beta-adrenoceptor antagonists. Henricks PA, et al. **Vet Microbiol** 1990 Apr;22(2–3):259–66

BIOSYNTHESIS

Characterization of an attenuated strain of Actinobacillus pleuropneumoniae, serotype 1. Rosendal S, et al. **Am J Vet Res** 1990 May;51(5):711–7

The prevalence of verocytotoxin-producing Escherichia coli and antimicrobial resistance patterns of nonverocytotoxin-producing Escherichia coli and Salmonella in Ontario broiler chickens. Irwin RJ, et al. **Can J Vet Res** 1989 Oct;53(4):411–8

Generation of a lipid-like cytotoxin from human CD16+ natural killer cells. Cosentino LM, et al. **Cancer Res** 1989 Dec 1;49(23):6662–9

HEp-2 cell adherence and Vero cell cytotoxin production by EPEC strains isolated from children with diarrhoea in New Zealand. Gunzburg ST, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):181–5

Production of vero cytotoxin by Escherichia coli and Shiga toxin by Shigella dysenteriae 1 as related to the growth medium and availability of iron. Chart H, et al. **Int J Med Microbiol** 1989 Nov;272(1):1–10

Enterotoxic, cytotoxic, necrotic and lethal activities in cell-free extracts of Salmonella strains isolated from humans. González EA, et al. **Int J Med Microbiol** 1989 Sep;271(3):281–92

Macrophage activation by muramyl dipeptide bound to neoglycoproteins and glycosylated polymers: cytotoxic factor production. Petit C, et al. **J Biol Response Mod** 1990 Feb;9(1):33–43

Close association of verotoxin (Shiga-like toxin) production with enterohemolysin production in strains of Escherichia coli. Beutin L, et al. **J Clin Microbiol** 1989 Nov; 27(11):2559–64

Cytotoxin and enterotoxin production as factors delineating enteropathogenicity of Aeromonas caviae. Namdari H, et al. **J Clin Microbiol** 1990 Aug;28(8):1796–8

Virulence factors of bacteraemic Escherichia coli with particular reference to production of cytotoxic necrotising factor (CNF) by P-fimbriate strains. Blanco J, et al. **J Med Microbiol** 1990 Mar;31(3):175–83

[Cytotoxin of Pseudomonas aeruginosa] Hayashi T. **Seikagaku** 1989 Nov;61(11):1380–4 **(Jpn)**

[Cytotoxic and hemolytic activities in uropathogenic Escherichia coli] Andrade JR, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;83(2):193–9 (Eng. Abstr.) **(Por)**

BLOOD

Lack of association of cytotoxicity in serum and preeclampsia [letter; comment] Frohlich EP. **Am J Obstet Gynecol** 1990 Mar;162(3):873–4 Comment on: Am J Obstet Gynecol 1988 Oct;159(4):908–14.

CHEMICAL SYNTHESIS

Synthesis and evaluation of alpha-[[(2-haloethyl)amino]methyl]-2-nitro-1H-imidazole-1-ethanols as prodrugs of alpha-[(1-aziridinyl)methyl]-2-nitro-1H-imidazole-1-ethanol (RSU-1069) and its analogues which are radiosensitizers and bioreductively activated cytotoxins. Jenkins TC, et al. **J Med Chem** 1990 Sep;33(9):2603–10

Synthesis and evaluation of novel electrophilic nitrofuran carboxamides and carboxylates as radiosensitizers and bioreductively activated cytotoxins. Naylor MA, et al. **J Med Chem** 1990 Sep;33(9):2508–13

CLASSIFICATION

Evidence for two types of cytotoxic necrotizing factor in human and animal clinical isolates of Escherichia coli. De Rycke J, et al. **J Clin Microbiol** 1990 Apr;28(4):694–9

GENETICS

The cytotoxin of Pseudomonas aeruginosa: cytotoxicity requires proteolytic activation. Orlik-Eisel G, et al. **Arch Microbiol** 1990;153(6):561–8

Molecular characterization of cytotoxins produced by Haemophilus, Actinobacillus, Pasteurella. Lo RY. **Can J Vet Res** 1990 Apr;54 Suppl:S33–5 (27 ref.)

A single protein of 110 kDa is associated with the multinucleating and necrotizing activity coded by the Vir plasmid of Escherichia coli. Oswald E, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):279–84

Cloning and expression of the damselysin gene from Vibrio damsela. Cutter DL, et al. **Infect Immun** 1990 Jan; 58(1):266–8

Nonreciprocal complementation of the hlyC and lktC genes of the Escherichia coli hemolysin and Pasteurella haemolytica leukotoxin determinants. Forestier C, et al. **Infect Immun** 1990 Mar;58(3):828–32

The cytolysin gene of Vibrio vulnificus: sequence and relationship to the Vibrio cholerae El Tor hemolysin gene. Yamamoto K, et al. **Infect Immun** 1990 Aug;58(8):2706–9

Comparison of Vero-cytotoxin-encoding phages from Escherichia coli of human and bovine origin. Rietra PJ, et al. **J Gen Microbiol** 1989 Aug;135 (Pt 8):2307–18

Pseudomonas aeruginosa cytotoxin: the nucleotide sequence of the gene and the mechanism of activation of the protoxin. Hayashi T, et al. **Mol Microbiol** 1989 Jul; 3(7):861–8

The cytotoxic protein YopE of Yersinia obstructs the primary host defence. Rosqvist R, et al. **Mol Microbiol** 1990 Apr; 4(4):657–67

Nucleotide sequence of Clostridium difficile toxin B gene. Barroso LA, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):4004

[The use of a molecular DNA probe based on the cloned cytolysin gene for the identification of Legionella] Tartakovskii IS, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan;(1):20–3 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Characterization of and human serologic response to proteins in Helicobacter pylori broth culture supernatants with vacuolizing cytotoxin activity. Cover TL, et al. **Infect Immun** 1990 Mar;58(3):603–10

Antibody to cytotoxin in infection by Helicobacter pylori. Leunk RD, et al. **J Clin Microbiol** 1990 Jun;28(6):1181–4

Production and characterisation of monoclonal antibodies to Verotoxins 1 and 2 from Escherichia coli of serotype O 157:H7. Padhye VV, et al. **J Med Microbiol** 1989 Nov; 30(3):219–26

Immune effector mechanisms in organ allograft rejection. VIII: Inflammatory mediators and cytotoxins in rejecting rat cardiac allografts. Lowry RP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):424–5

[Monoclonal antibodies to Legionella pneumophila cytolysin] Spitsyn SVA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Oct;(10):83–7 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

A cytocidal tissue kallikrein isolated from mouse submandibular glands. Murakami K, et al. **FEBS Lett** 1989 Nov 6;257(2):400–2

Characterization of a cytotoxin-like basic protein from the cobra (Naja naja naja) venom. Shafqat J, et al. **FEBS Lett** 1990 Feb 26;261(2):245–6

Purification and characterization of two Listeria ivanovii cytolysins, a sphingomyelinase C and a thiol-activated toxin (ivanolysin O). Vazquez-Boland JA, et al. **Infect Immun** 1989 Dec;57(12):3928–35

Isolation of an inhibitor of cell-free protein synthesis from Salmonella enteritidis. Brigotti M, et al. **Microbiologica** 1990 Jan;13(1):55–60

METABOLISM

Binding of a radiolabeled sea anemone cytolysin to erythrocyte membranes. Doyle JW, et al. **Biochim Biophys Acta** 1989 Dec 28;987(2):181–6

RNK granule extract cytolysis: differential inhibitor production by an NK-resistant vs an NK-sensitive murine lymphoma. Chow DA. **Cell Immunol** 1990 Apr 15; 127(1):172–86

Mechanisms of cell toxicity. Chipman JK. **Curr Opin Cell Biol** 1989 Apr;1(2):231–5 (33 ref.)

Cytotoxic factor for fibroblasts in bronchoalveolar lavage fluid of bleomycin-treated rats. Tani K, et al. **Exp Lung Res** 1990 May–Jun;16(3):293–307

Degradation of 2-phosphoglycerate by cytotoxin B of Clostridium difficile. Knoop F, et al. **FEBS Lett** 1990 Jul 2;267(1):9–12

Preliminary evidence that different domains are involved in cytolytic activity and receptor (cholesterol) binding in listeriolysin O, the Listeria monocytogenes thiol-activated toxin. Vazquez-Boland JA, et al. **FEMS Microbiol Lett** 1989 Nov;53(1–2):95–9

Attaching and effacing lesions in vivo and adhesion to tissue culture cells of Vero-cytotoxin-producing Escherichia coli belonging to serogroups O5 and O103. Hall GA, et al. **J Gen Microbiol** 1990 Apr;136 (Pt 4):779–86

Structure-function analyses of Shiga toxin and the Shiga-like toxins. Jackson MP. **Microb Pathog** 1990 Apr;8(4):235–42 (57 ref.)

[Binding cytotoxin molecules from the venom of the Central Asian cobra with model membranes] Aripov TF, et al. **Biofizika** 1989 Jul–Aug;34(4):706–8 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Extracellular calcium alleviates cell toxicity due to hepatotoxins that induce lipid peroxidation, but has no effect on toxins that do not cause lipid peroxidation. A study in isolated rat hepatocytes. Dogterom P, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4225–30

Granulocyte plasma membrane damage by leukotoxic supernatant from Pasteurella haemolytica A1 and protection by immune serum. Styrt B, et al. **Can J Vet Res** 1990 Jan;54(1):146–50

The effect of Pasteurella haemolytica and the leukotoxin of Pasteurella haemolytica on bovine lung explants. Wilkie

IW, et al. **Can J Vet Res** 1990 Jan;54(1):151–6

The effects of the platinum anti-tumour agents on renal cell kinetics and the response to a second cytotoxic agent. Ewen C, et al. **Cell Tissue Kinet** 1990 Mar;23(2):61–70

Central Asian cobra venom cytotoxins–induced aggregation, permeability and fusion of liposomes. Aripov TF, et al. **Gen Physiol Biophys** 1989 Oct;8(5):459–73

Interaction of central Asian cobra (Naja naja oxiana Eichwald) venom cytotoxins with phospholipase D. Khole V. **Indian J Biochem Biophys** 1989 Aug;26(4):275–7

A cytotoxic substance produced by a wild culture of Lactobacillus casei D–34 against tumour cells. Manjunath N, et al. **Indian J Exp Biol** 1989 Feb;27(2):141–5

Effect of dengue virus–induced cytotoxin on capillary permeability. Dhawan R, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):83–8

Pulmonary lesions induced by a Pasteurella haemolytica cytotoxin preparation in calves. van den Ingh TS, et al. **Zentralbl Veterinarmed [B]** 1990 Jun;37(4):297–308

[The fusogenic properties of the cytotoxins of cobra venom in a model membrane system] Gasanov SE, et al. **Biol Nauki** 1990;(2):42–50 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Growth factor–initiated proliferation of mouse embryonic fibroblasts induces cytotoxicity by natural killer cells and by a non–cytolysin cytotoxin in natural killer granules. Khalil N, et al. **J Immunol** 1990 Aug 15;145(4):1286–92

Cytoplasmic components of natural killer cells limit the growth of Cryptococcus neoformans. Hidore MR, et al. **J Leukoc Biol** 1990 Jul;48(1):15–26

SECRETION

Culture supernatants of lymphokine–activated killer (LAK) cells contain a high–molecular–weight cytotoxic lymphokine. Larisch–Bloch S, et al. **Immunol Lett** 1989 Nov;23(1):27–30

TOXICITY

On the mode of action of basic phospholipase A2 from Naja nigricollis venom. Chwetzoff S. **Biochim Biophys Acta** 1990 Aug 6;1045(3):285–90

Pyelonephritogenic Escherichia coli and killing of cultured human renal proximal tubular epithelial cells: role of hemolysin in some strains. Mobley HL, et al. **Infect Immun** 1990 May;58(5):1281–9

Glycerophosphopholipid:cholesterol acyltransferase complexed with lipopolysaccharide (LPS) is a major lethal exotoxin and cytolysin of Aeromonas salmonicida: LPS stabilizes and enhances toxicity of the enzyme. Lee KK, et al. **J Bacteriol** 1990 Sep;172(9):5382–93

The influence of calcium, sodium, and the Na+/Ca2+ antiport on susceptibility to cytolysin/perforin–mediated cytolysis. Kraut RP, et al. **J Immunol** 1990 May 1; 144(9):3498–505

Adenovirus region E3 proteins that prevent cytolysis by cytotoxic T cells and tumor necrosis factor. Wold WS, et al. **Mol Biol Med** 1989 Oct;6(5):433–52 (145 ref.)

Structure and functions of the Bordetella tracheal cytotoxin. Goldman WE, et al. **Tokai J Exp Clin Med** 1988;13 Suppl:187–91

2,4–D see 2,4–DICHLOROPHENOXYACETIC ACID

D 600 see GALLOPAMIL

DAB see DIMETHYLAMINOAZOBENZENE

DACARBAZINE

ADMINISTRATION & DOSAGE

A phase I–II study of dacarbazine in combination with outpatient interleukin–2 in metastatic malignant melanoma. Flaherty LE, et al. **Cancer** 1990 Jun 1;65(11):2471–7

Interferon alpha–2a and dacarbazine in melanoma. Kirkwood JM, et al. **J Natl Cancer Inst** 1990 Jun 20;82(12):1062–3

ADVERSE EFFECTS

Case report: development of Hodgkin's disease in patient receiving long–term administration of dacarbazine and interleukin–2 for metastatic melanoma. Flaherty LE, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1360

ANALOGS & DERIVATIVES

Anti–tumour imidazotetrazines. Part XXI. Mitozolomide and temozolomide: probes for the major groove of DNA. Clark AS, et al. **Anticancer Drug Des** 1990 Feb;5(1):63–8

Inhibition of cellular esterases by the antitumour imidazotetrazines mitozolomide and temozolomide: demonstration by flow cytometry and conventional spectrofluorimetry. Dive C, et al. **Cancer Chemother Pharmacol** 1989;25(3):149–55

ANTAGONISTS & INHIBITORS

Two antiemetic regimens do not impair chemical xenogenization induced in vivo by 5–(3,3–dimethyl–1–triazeno)–imidazole–4–carboxamide. Ballerini P, et al. **Cancer Chemother Pharmacol** 1989; 24(6):359–62

PHARMACOLOGY

Altered response to dacarbazine by murine melanoma cells cultured in type I collagen gel. Furukawa M, et al. **Arch Dermatol Res** 1990;282(4):278–9

Cell–mediated immunity to chemically xenogenized tumors—IV. Production of lymphokine activity by, and in response to, highly immunogenic cells. Romani L, et al. **Int J Immunopharmacol** 1989;11(5):537–42

Functional studies of H–2k–like epitopes on DTIC treated and untreated L1210 (H–2d) clones. Marelli OE, et al. **J Immunogenet** 1989 Aug–Oct;16(4–5):373–80

Drug induced modulation of immune responses in mice: effects of 5–(3,3–dimethyl–1–triazeno)–imidazole–4–carboxamide (DTIC) and cyclophosphamide (Cy). Giampietri A, et al. **J Immunopharmacol** 1978–79;1(1):61–86

THERAPEUTIC USE

Recombinant interleukin–2 and adoptive immunotherapy alternated with dacarbazine therapy in melanoma: a National Biotherapy Study Group trial. Dillman RO, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1345–9

TOXICITY

Early effect of the anticancer drug biocarbazin (DTIC synonym) on mice spermatogenesis. Martinova YS, et al. **Z Mikrosk Anat Forsch** 1989;103(3):431–6

DACRON see POLYETHYLENE TEREPHTHALATE

DACRYOCYSTITIS

CONGENITAL

Clinicobacteriological correlates of congenital dacryocystitis. Bareja U, et al. **Indian J Ophthalmol** 1990 Apr–Jun; 38(2):66–9

DIAGNOSIS

Dacrocystitis. Kershaw S, et al. **Practitioner** 1989 May 22; 233(1469):765

[Suppurative pseudo–lithiasic canaliculitis] Ritleng P, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):1–3 (Eng. Abstr.) **(Fre)**

[Problems of the diagnosis and differential treatment procedures in congenital dacryocystitis] Krasnov MM, et al. **Oftalmol Zh** 1989;(3):146–50 (Eng. Abstr.) **(Rus)**

ETIOLOGY

[A case of congenital external fistula of the lacrimal sac complicated by chronic suppurative dacryocystitis] Sultanov MIu, et al. **Oftalmol Zh** 1989;(6):382–4 **(Rus)**

[Rhinolithiasis complicated by purulent dacryocystitis] Udovički J. **Med Pregl** 1989;42(9–10):329–31 (Eng. Abstr.) **(Scr)**

METABOLISM

Immunohistochemical characterization of epithelial cells in human lacrimal glands. II. Inflammatory and neoplastic lesions of lacrimal glands. Wilk CM, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):65–72

PATHOLOGY

A postmortem study of focal adenitis in salivary and lacrimal glands. Segerberg–Konttinen M. **J Autoimmun** 1989 Aug; 2(4):553–8

RADIOGRAPHY

[The value of digital subtraction dacryocystography] Lieb WE, et al. **Fortschr Ophthalmol** 1989;86(6):679–81 (Eng. Abstr.) **(Ger)**

SURGERY

[Our experience with the surgical treatment of recurrent dacryocystitis] Sultanov MIu, et al. **Oftalmol Zh** 1989; (8):504–6 **(Rus)**

DACRYOCYSTORHINOSTOMY

A 16–year study of conjunctival dacryocystorhinostomy. Steinsapir KD, et al. **Am J Ophthalmol** 1990 Apr 15; 109(4):387–93

Bleeding during dacryocystorhinostomy: the importance of the suction cautery [letter] Small RG, et al. **Arch Ophthalmol** 1990 May;108(5):638–9

An unconventional view of dacryocystorhinostomy. van Deenen WL, et al. **Doc Ophthalmol** 1989 Aug; 72(3–4):225–33

Dacryocystorhinostomy failure [letter; comment] Rosner M, et al. **Ophthalmic Surg** 1990 Mar;21(3):228 Comment on: Ophthalmic Surg 1989 Jul;20(7):486–9.

INSTRUMENTATION

[Dacryocystorhinostomy with temporary intubation using a Hatt set] Anders M. **Cesk Oftalmol** 1989 Sep;45(5):375–9 (Eng. Abstr.) **(Cze)**

[Mucous anastomoses using a biological glue in dacryocystorhinostomy] Hagège A, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul;89(6–7):827–9 **(Fre)**

METHODS

Relaxed skin tension line incision for dacryocystorhinostomy. Harris GJ, et al. **Am J Ophthalmol** 1989 Dec 15; 108(6):742–3

Endonasal laser dacryocystorhinostomy. A new approach to nasolacrimal duct obstruction. Massaro BM, et al. **Arch Ophthalmol** 1990 Aug;108(8):1172–6

Endoscopic intranasal dacryocystorhinostomy results in four patients. Rice DH. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1061

STATISTICS & NUMERICAL DATA

Dacryocystorhinostomy at Ramathibodi Hospital. Kunavisarut S, et al. **J Med Assoc Thai** 1990 Jan; 73(1):47–52

VETERINARY

Repair of anomalous nasolacrimal duct in a bull by use of conjunctivorhinostomy. Wilkie DA, et al. **J Am Vet Med Assoc** 1990 May 15;196(10):1647–50

DACRYOCYSTOSTOMY see DACRYOCYSTORHINOSTOMY

DACTINOMYCIN

A combined 2D–NMR and molecular dynamics analysis of the structure of the actinomycin D: d(ATGCAT)2 complex. Creighton S, et al. **J Biomol Struct Dyn** 1989 Apr;6(5):929–69

Reassessment of structural characteristics of the d(CGCG)2:actinomycin D complex from complete 1H and 31P NMR. Delepierre M, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):557–89

A general procedure for assigning the 31P spectra of drug–oligonucleotide complexes. Delepierre M, et al. **J Biomol Struct Dyn** 1988 Feb;5(4):933–7

ADMINISTRATION & DOSAGE

[Use of a single high dose of dactinomycin in polychemotherapy of nephroblastoma in children] Badalian GKh, et al. **Pediatriia** 1990;(1):100–2 **(Rus)**

ADVERSE EFFECTS

Pregnancy after chemotherapy for gestational trophoblastic disease. Ayhan A, et al. **J Reprod Med** 1990 May; 35(5):522–4

Hepatotoxicity and actinomycin D [letter] **Lancet** 1990 May 26;335(8700):1290

Chemotherapy and veno–occlusive disease of the liver [letter] D'Angio GJ. **Pediatr Hematol Oncol** 1989;6(1):51

Actinomycin D–induced hepatotoxicity. White L, et al. **Pediatr Hematol Oncol** 1989;6(1):53–7

ANALOGS & DERIVATIVES

7–Azido–actinomycin D: a photoaffinity probe of the sequence specificity of DNA binding by actinomycin D. Rill RL, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):591–605

ANALYSIS

Solution conformation of the actinomycin D related pentapeptide lactone using NMR and molecular modeling. Mauger AB, et al. **Biopolymers** 1989 Oct;28(10):1771–80

BIOSYNTHESIS

Enzymatic synthesis of actinomycin D and analogues containing N–methylalanine from synthetic pentapeptide lactone precursors. Katz E, et al. **J Antibiot (Tokyo)** 1990 Jun;43(6):731–3

METABOLISM

Actinomycin D binding in vitro: active chromatin preferred. Yu FL, et al. **Biochem Int** 1990;20(4):807–15

Reversal of multidrug resistance by lipophilic drugs. Hofsli E, et al. **Cancer Res** 1990 Jul 1;50(13):3997–4002

Flow cytometric competitive binding assay for determination of actinomycin–D concentrations. Saunders GC, et al. **Cytometry** 1990;11(2):311–3

7–Azido–actinomycin D: a photoaffinity probe of the sequence specificity of DNA binding by actinomycin D. Rill RL, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):591–605

PHARMACOLOGY

Rapid nongenomic inhibition of renal 25–hydroxyvitamin D3 1–hydroxylase by 1,25–dihydroxyvitamin D3. Dick IM, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):E272–7

Effect of actinomycin on a (TA)6 plasmid insert. Waterloh K, et al. **Anticancer Drug Des** 1990 Feb;5(1):89–92

Protective effect of chlorpromazine against the lethality of interleukin 1 in adrenalectomized or actinomycin D–sensitized mice. Bertini R, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):942–6

mdr1/P–glycoprotein gene segments analyzed from various human leukemic cell lines exhibiting different multidrug resistance profiles. Gekeler V, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):796–802

Inhibition of DNA methylation in Friend erythroleukemia cells by actinomycin D. Kuykendall JR, et al.

Biochem Int 1989 Oct;19(4):811–20

Triple combination of retinoic acid plus actinomycin D plus dimethylformamide induces differentiation of human acute myeloid leukaemic blasts in primary culture. Hassan HT, et al. **Cancer Chemother Pharmacol** 1990;26(1):26–30

Formation of microspherules in nucleoli of tumor cells treated with high doses of actinomycin D. Unuma T, et al. **Cancer Res** 1967 Jul;27(7):1232–42

Short exposure to actinomycin D induces "reversible" translocation of protein B23 as well as "reversible" inhibition of cell growth and RNA synthesis in HeLa cells. Yung BY, et al. **Cancer Res** 1990 Sep 15;50(18):5987–91

Effect of actinomycin D on hormones that control the release of thyrotropin from the anterior pituitary glands of mice. Bowers CY, et al. **Endocrinology** 1968 Feb;82(2):303–10

A study of the role of protein synthesis in the stimulation of acid secretion by gastrin and a gastrin-like pentapeptide. Davidson WD, et al. **Endocrinology** 1968 Feb;82(2):416–9

Hexose transport and blood flow rate in the uterus: effects of estradiol, puromycin and actinomycin D. Spaziani E, et al. **Endocrinology** 1967 Aug;81(2):205–12

Stimulation of DNA synthesis by isoproterenol and its inhibition by actinomycin D. Baserga R, et al. **Exp Cell Res** 1967 Jun;46(3):571–80

Differential sensitivity of protein synthesis in human cell lines to actinomycin D. Bose S, et al. **Exp Cell Res** 1967 Jun; 46(3):599–603

Studies on kidney tubulogenesis. X. The effect of actinomycin D on the development of the lactate dehydrogenase isozyme pattern during tubule formation in vitro. Koskimies O. **Exp Cell Res** 1967 Jun;46(3):541–52

Absence of immunosuppression in DBA/2 mice vaccinated with Trypanosoma cruzi treated with actinomycin-D. Queiroz da Cruz M, et al. **Experientia** 1989 Dec 1; 45(11–12):1131–3

Superinduction of ornithine decarboxylase (ODC) by actinomycin D is due to stimulation of ODC mRNA translation. Wallon UM, et al. **FEBS Lett** 1990 Jul 30; 268(1):161–4

Intermediary metabolism in a lizard, Calotes versicolor: role of thyroid hormones. Jacob V, et al. **Gen Comp Endocrinol** 1990 Feb;77(2):324–36

Actinomycin D inhibits the rapid increase in translatable calcitonin mRNA provoked by acute calcium stimulation. Segond N, et al. **Horm Metab Res** 1989 Sep;21(9):489–93

Ocular cicatricial disease. Drug effects in vitro on cell proliferation, contraction, and viability. Heath TD, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1245–51

Extensive interference of DNA packaging processes affected by chemotherapeutic drugs. Reich Z, et al. **J Biol Chem** 1990 Sep 15;265(26):16004–6

Induction of apoptosis (programmed cell death) in human leukemic HL-60 cells by inhibition of RNA or protein synthesis. Martin SJ, et al. **J Immunol** 1990 Sep 15; 145(6):1859–67

Inhibition of protein synthesis prevents cell death in sensory and parasympathetic neurons deprived of neurotrophic factor in vitro. Scott SA, et al. **J Neurobiol** 1990 Jun; 21(4):630–8

Low concentrations of cytosine arabinoside, 6-thioguanine, actinomycin-D and aclacinomycin A stimulates the differentiation of normal human marrow myeloid progenitor cells. Hassan HT, et al. **Med Oncol Tumor Pharmacother** 1989;6(3):213–7

In vitro effect of actinomycin D on human neutrophil function. Chang FY, et al. **Microbiol Immunol** 1990; 34(3):311–21

Effects of morpholinyl doxorubicins, doxorubicin, and actinomycin D on mammalian DNA topoisomerases I and II. Wassermann K, et al. **Mol Pharmacol** 1990 Jul; 38(1):38–45

Actinomycin D affects thyrotropin-releasing hormone-induced heterogeneous forms of glycosylated thyroid-stimulating hormone in rat anterior pituitary. Mori M, et al. **Neuroendocrinology** 1989 Nov;50(5):519–23

Effects of thyroid hormone and actinomycin D on phosphate uptake of brush-border membrane vesicles from kidney of rachitic rats. Kishida M, et al. **Osaka City Med J** 1990 May;36(1):21–8

Effect of actinomycin D on replication of satellite tobacco ringspot virus RNA in plant protoplasts. Buckley B, et al. **Virology** 1990 Jul;177(1):298–304

THERAPEUTIC USE

Potentiation of vincristine and actinomycin D by a new synthetic imidazole anti-tumor agent YM534 active against human cancer cells and multidrug-resistant cells. Sato S, et al. **Anticancer Drug Des** 1989 Aug;4(2):125–35

TOXICITY

[Cyto and genotoxic effect of some environmental contaminants on spermatogenesis] Lafuente-Indo N. **Arch Biol Med Exp (Santiago)** 1989 Apr;22(1):69–75 (31 ref.) **(Spa)**

DACTYLOLYSIS SPONTANEA see **AINHUM**

DAIRY PRODUCTS

Effect of chronic ingestion of a fermented dairy product containing Lactobacillus acidophilus and Bifidobacterium bifidum on metabolic activities of the colonic flora in humans. Marteau P, et al. **Am J Clin Nutr** 1990 Oct; 52(4):685–8

Effect of Lactobacillus GG yoghurt in prevention of antibiotic associated diarrhoea. Siitonen S, et al. **Ann Med** 1990 Feb;22(1):57–9

Effect of yogurt intake on plasma lipid and lipoprotein levels in normolipidemic males. McNamara DJ, et al. **Atherosclerosis** 1989 Oct;79(2–3):167–71

Reduction of Salmonella typhimurium concentration in broiler chickens by milk or whey. DeLoach JR, et al. **Avian Dis** 1990 Apr–Jun;34(2):389–92

In vitro antibacterial effect of yogurt on Escherichia coli. Kotz CM, et al. **Dig Dis Sci** 1990 May;35(5):630–7

An outbreak of foodborne botulism associated with contaminated hazelnut yoghurt. O'Mahony M, et al. **Epidemiol Infect** 1990 Jun;104(3):389–95

Effect of ascorbic acid on N-nitrosoproline excretion in the urine of lacto-vegetarians and subjects on a free-choice diet. Halling H, et al. **Food Addit Contam** 1989 Oct–Dec; 6(4):445–52

The fromagification of America. Morowitz HJ. **Hosp Pract [Off]** 1989 Oct 15;24(10):45–6

Evaluation of enrichment procedures for recovering Listeria monocytogenes from dairy products. Lammerding AM, et al. **Int J Food Microbiol** 1989 Nov;9(3):249–68

Proposed guidelines for maximum acceptable air-borne microorganism levels in dairy processing and packaging plants. Radmore K, et al. **Int J Food Microbiol** 1988 Feb; 6(1):91–5

Persistence of Listeria monocytogenes in yogurt as determined by direct plating and enrichment methods. Siragusa GR, et al. **Int J Food Microbiol** 1988 Oct; 7(2):147–60

The occurrence of Staphylococcus aureus in fermented milk products (fura and manshanu) in Nigeria. Umoh VJ, et al. **Int J Food Microbiol** 1990 May;10(3–4):343–7

Psychrotrophic, proteolytic and lipolytic properties of Enterobacteriaceae isolated from milk and dairy products. Wessels D, et al. **Int J Food Microbiol** 1989 Aug;9(1):79–83

Technologically important characteristics of Enterococcus isolates from milk and dairy products. Wessels D, et al. **Int J Food Microbiol** 1990 May;10(3–4):349–52

Yeasts in dairy products. Fleet GH. **J Appl Bacteriol** 1990 Mar;68(3):199–211 (140 ref.)

Isolation and identification of staphylococci from milk powders produced in Northern Ireland. Harvey J, et al. **J Appl Bacteriol** 1990 May;68(5):433–8

The incidence of Listeria spp. in soft cheeses, butter and raw milk in the province of Bologna. Massa S, et al. **J Appl Bacteriol** 1990 Feb;68(2):153–6

Dietary modification with dairy products for preventing vertebral bone loss in premenopausal women: a three-year prospective study. Baran D, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):264–70

Seventy-second annual meeting of the American Dairy Science Association. Ames, Iowa, June 26–29, 1977. Abstracts. **J Dairy Sci** 1977 Jun;60 Suppl 1:33–174

American Dairy Science Association, 85th annual meeting. June 24–27, 1990, North Carolina. Abstracts. **J Dairy Sci** 1990;73 Suppl 1:1–297

Acidophilus milk products: a review of potential benefits to consumers. Gilliland SE. **J Dairy Sci** 1989 Oct; 72(10):2483–94 (59 ref.)

Fate of Staphylococcus aureus in whey, whey cream, and whey cream butter. Halpin-Dohnalek MI, et al. **J Dairy Sci** 1989 Dec;72(12):3149–55

Growth and production of enterotoxin A by Staphylococcus aureus in cream. Halpin-Dohnalek MI, et al. **J Dairy Sci** 1989 Sep;72(9):2266–75

Lactose malabsorption in children with symptomatic Giardia lamblia infection: feasibility of yogurt supplementation. Pettoello Mantovani M, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):295–300

Beware of the cow [letter] **Lancet** 1989 Dec 2;2(8675):1334

Metabolic response to egg white and cottage cheese protein in normal subjects. Nuttall FQ, et al. **Metabolism** 1990 Jul; 39(7):749–55

Calcium, dairy products, and colorectal cancer. Negri E, et al. **Nutr Cancer** 1990;13(4):255–62

Staphylococci in milk and milk products. Gilmour A, et al. **Soc Appl Bacteriol Symp Ser** 1990;19:147S–166S (166 ref.)

[Traumatism among the milk industry workers in the Saratov district] Nushtaev IA. **Sov Zdravookhr** 1990;(1):37–40 (Eng. Abstr.) **(Rus)**

[The biological value of the proteins of dairy products with varying contents of lactose] Mamaeva EM, et al. **Vopr Pitan** 1990 Jan–Feb;(1):55–7 (Eng. Abstr.) **(Rus)**

[New dairy products in the nutrition of children of preschool and school age] Mostovaia LA, et al. **Vopr Pitan** 1989 May–Jun;(3):30–3 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Concerns of microbial pathogens in association with dairy foods. Donnelly CW. **J Dairy Sci** 1990 Jun;73(6):1656–61 (28 ref.)

[Epidemiological role of food products in spreading Shigella infections in present-day conditions] Solodovnikov IuP, et al. **Gig Sanit** 1990 May;(5):17–20 **(Rus)**

ANALYSIS

Relationship between the calcium-to-protein ratio in milk and the urinary calcium excretion in healthy adults—a controlled crossover study. van Beresteijn EC, et al. **Am J Clin Nutr** 1990 Jul;52(1):142–6

Effect of the microbial lactase (EC 3.2.1.23) activity in yoghurt on the intestinal absorption of lactose: an in vivo study in lactase-deficient humans. Marteau P, et al. **Br J Nutr** 1990 Jul;64(1):71–9

Investigation of trace element content of cheese. Gabrielli Favretto L. **Food Addit Contam** 1990 May–Jun;7(3):425–32

Detection of staphylococcal enterotoxins in dairy products by the reversed passive latex agglutination (SET-RPLA) kit. Rose SA, et al. **Int J Food Microbiol** 1989 Feb; 8(1):65–72

Precision parameters of standard methods of analysis for dairy products. Peeler JT, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct;72(5):784–806

Carotenoids and retinoids in Finnish foods: dairy products and eggs. Ollilainen V, et al. **J Dairy Sci** 1989 Sep; 72(9):2257–65

[Contamination of fermented milk products by proinflammatory autacoid paf-acether] Denizot Y, et al. **C R Acad Sci [III]** 1989;309(14):593–7 (Eng. Abstr.) **(Fre)**

[Use of beta radiometer RUB-01P for control of radioactive contamination of milk and milk products] Bachurin AV, et al. **Gig Sanit** 1990 Apr;(4):58–9 **(Rus)**

[Residual chlorinated hydrocarbons and polychlorinated biphenyls in milk and milk products] Breyl I, et al. **Vet Med (Praha)** 1990 Mar;35(3):179–86 (Eng. Abstr.) **(Slo)**

[Detection of staphylococcal enterotoxins in milk and milk products] Grieger C, et al. **Vet Med (Praha)** 1990 Mar; 35(3):171–8 (Eng. Abstr.) **(Slo)**

STANDARDS

Diluted yogurt (ayran) versus water in dissolving oral rehydration salts. Cağlayan S, et al. **Turk J Pediatr** 1989 Jan–Mar;31(1):25–7

[Elaboration of the method of selective control of equipment cleanness at milk product-processing plants] Levkovich LB, et al. **Gig Sanit** 1989 Dec;(12):54–7 **(Rus)**

DAIRYING

Health effects of organic dust exposure in dairy farmers. Malmberg P. **Am J Ind Med** 1990;17(1):7–15 (66 ref.)

Massive exposure to aeroallergens in dairy farming: radioimmunoassay results of dust collection during bedding chopping with culture confirmation. Pratt DS, et al. **Am J Ind Med** 1990;17(1):103–4

Bronchial hyperreactivity among pig and dairy farmers. Rylander R, et al. **Am J Ind Med** 1990;17(1):66–9

Predictive value of bronchoalveolar lavage cells and serum precipitins in asymptomatic dairy farmers. Gariépy L, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1386–9

Leptospirosis in the milking parlour [letter; comment] Levine DF. **Br J Hosp Med** 1989 Oct;42(4):340 Comment on: Br J Hosp Med 1989 Jun;41(6):519.

Endotoxin levels in farming: absence of symptoms despite high exposure levels. Rask-Andersen A, et al. **Br J Ind Med** 1989 Jun;46(6):412–6

Associations between farmers' personal characteristics, management practices and farm performance. Tarabla HD, et al. **Br Vet J** 1990 Mar–Apr;146(2):157–64

Contact dermatitis from animal proteins in a milker. Crippa M, et al. **Contact Dermatitis** 1990 Apr;22(4):240

Seventy-second annual meeting of the American Dairy Science Association. Ames, Iowa, June 26–29, 1977. Abstracts. **J Dairy Sci** 1977 Jun;60 Suppl 1:33–174

American Dairy Science Association, 85th annual meeting. June 24–27, 1990, North Carolina. Abstracts. **J Dairy Sci** 1990;73 Suppl 1:1–297

Brucellosis in the dairy-farming community and allied workers of Worcestershire. Henderson RJ. **Lancet** 1967 Aug 12;2(7511):353–7

Health worries over use of milk hormone [news] Anderson GC. **Nature** 1990 May 24;345(6273):280

Heat stress in dairy cattle and other livestock under southern African conditions. I. Temperature-humidity index mean values during the four main seasons. Du Preez JH, et al. **Onderstepoort J Vet Res** 1990 Mar;57(1):77–87

Development of smallholder dairy units in Malaysia. Wan Hassan WE, et al. **Trop Anim Health Prod** 1989 Aug; 21(3):175–82

Dairy practice management. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):457–664

Getting paid: how to charge and collect. Gardner CE. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):603–13

Surviving as a solo practitioner. Gardner DL. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):553–6

Marketing dairy practice. Herrick JB. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):457–69 (4 ref.)

Nontraditional opportunities for dairy practitioners. Johnson AP. **Vet Clin North Am Food Anim Pract** 1989 Nov; 5(3):575–81

Starting or changing a dairy practice. Kearley WP. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):471–80 (8 ref.)

The use of computers in dairy practice. Klingborg DJ.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):583–9
Personnel management in dairy practice. The office staff and technicians. Ledbetter GA.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):481–91 (17 ref.)
The key role of records in a production medicine practice. Nelson AJ, et al. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):517–52 (9 ref.)
Developing the production medicine practice. Nordlund KV.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):501–15
Personnel management in dairy practice. The professional staff. Sammons ML, et al.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):493–500
Fixed and mobile facilities in dairy practice. Simms JC.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):591–601
The role of the laboratory in dairy practice. VanDamme D.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):557–65
[Milker's fever, an occupational disease on the increase] Huitema SW, et al. **Ned Tijdschr Geneeskd** 1989 Sep 30; 133(39):1939–41 (Eng. Abstr.) **(Dut)**
[Dairy cattle near the Dead Sea] Naimi H.
Tijdschr Diergeneeskd 1989 Oct 15;114(20):1061–2 **(Dut)**
[Social hygiene aspects consequent to occupational accidents in the dairy industry] Gorchakov LG, et al.
Sante Publique (Bucur) 1989 Oct–Dec;32(4):347–53 (Eng. Abstr.) **(Fre)**

ECONOMICS

The accountant's view of dairy practice. McCafferty OE.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):641–52

LEGISLATION & JURISPRUDENCE

The practitioner's role and responsibility in residue avoidance. Sterner KE.
Vet Clin North Am Food Anim Pract 1989 Nov;5(3):615–39

METHODS

Progress in the use of computerised recording systems in dairy cow monitoring and extension in Malaysia. Pharo HJ, et al. **Trop Anim Health Prod** 1990 May;22(2):77–88

STANDARDS

The source of Yersinia spp. in pasteurized milk: an investigation at a dairy. Greenwood MH, et al.
Epidemiol Infect 1990 Jun;104(3):351–60

STATISTICS & NUMERICAL DATA

[Accidents in the dairying industry] Nushtaev IA.
Ortop Travmatol Protez 1990 Jan;(1):47–9 **(Rus)**

DAMME see **FK 33-824**

DANAZOL see under **PREGNADIENES**

DANCE THERAPY

Many ways to grow: creative art therapies. Stern RS.
Pediatr Ann 1989 Oct;18(10):645, 649–52

METHODS

Dance/movement therapy in head injury rehabilitation. Berrol C. **Brain Inj** 1990 Jul–Sep;4(3):257–65
[Dance and psychotherapy—possibilities and limits] Hübener K, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Mar; 42(3):129–35 (Eng. Abstr.) **(Ger)**

DANCING

Bone scans and ballet dancers [letter; comment] Goldfarb CR, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):657–8 Comment on: AJR Am J Roentgenol 1988 Apr;150(4):851–5.
Injuries associated with aerobic dance. Belt CR.
Am Fam Physician 1990 Jun;41(6):1769–72
Nutrition and the incidence of stress fractures in ballet dancers. Frusztajer NT, et al. **Am J Clin Nutr** 1990 May; 51(5):779–83
Relationship of turnout to hip abduction in professional ballet dancers. Kushner S, et al. **Am J Sports Med** 1990 May–Jun; 18(3):286–91
"Let's twist again". Watson DP. **BMJ** 1989 Dec 23–30; 299(6715):1571
Postero–lateral subluxation of the superior tibio–fibular joint. Gillham NR, et al. **Br J Sports Med** 1989 Sep;23(3):195–6
Physiological profiles of young boys training in ballet. Pekkarinen H, et al. **Br J Sports Med** 1989 Dec;23(4):245–9
The nature and incidence of injuries in morris dancers. Tuffery AR. **Br J Sports Med** 1989 Sep;23(3):155–60
Standards of beauty: Degas v. Kirov [letter; comment] Jackson FI. **Can Med Assoc J** 1989 Dec 15;141(12):1224–5 Comment on: Can Med Assoc J 1989 Sep 15;141(6):513.
Achilles tendinitis in ballet dancers. Fernández–Palazzi F, et al. **Clin Orthop** 1990 Aug;(257):257–61
Femoral head collapse associated with anorexia nervosa in a 20–year–old ballet dancer. Warren MP, et al.
Clin Orthop 1990 Feb;(251):171–6
Discrepancy between estimated energy intake and requirement in female dancers. Dahlström M, et al.
Clin Physiol 1990 Jan;10(1):11–25
Effect of low–impact aerobic dance on the functional fitness of elderly women. Hopkins DR, et al. **Gerontologist** 1990 Apr;30(2):189–92
Dissociation and abuse among multiple–personality patients, prostitutes, and exotic dancers. Ross CA, et al.
Hosp Community Psychiatry 1990 Mar;41(3):328–30
Aerobic dance survey. A study of high–impact versus low–impact injuries. Janis LR.
J Am Podiatr Med Assoc 1990 Aug;80(8):419–23
Anthropometric measurements of adolescent and professional classical ballet dancers. Clarkson PM, et al.
J Sports Med Phys Fitness 1989 Jun;29(2):157–62
The effect of low impact dance training on aerobic capacity, submaximal heart rates and body composition of college–aged females. McCord P, et al.
J Sports Med Phys Fitness 1989 Jun;29(2):184–8
Functional assessment of high level ice–dancing. Roi GS, et al. **J Sports Med Phys Fitness** 1989 Jun;29(2):189–93
Intracerebral hemorrhage after break dancing [letter] Lee KC, et al. **N Engl J Med** 1990 Aug 30;323(9):615–6
Foot and ankle injuries in classical ballet dancers. Hardaker WT Jr. **Orthop Clin North Am** 1989 Oct;20(4):621–7
Comparison of processing style and instructional style observed in physical educators and dance educators. Karp GG, et al. **Percept Mot Skills** 1990 Feb;70(1):122
Injuries to dancers. Prevalence, treatment and prevention. Sohl P, et al. **Sports Med** 1990 May;9(5):317–22 (17 ref.)
The physiological effects of aerobic dance. A review. Williford HN, et al. **Sports Med** 1989 Dec;8(6):335–45 (36 ref.)
[Stress fractures from the viewpoint of occupational medicine] Krause E, et al. **Beitr Orthop Traumatol** 1990 Jan;37(1):57–65 (Eng. Abstr.) **(Ger)**
[Achillodynia in athletes and dancers—recommendations for prevention and therapy] Paul B, et al.
Beitr Orthop Traumatol 1990 Feb;37(2):100–7 (Eng. Abstr.) **(Ger)**

HISTORY

Hazards to go–go dancers from exposures to "black" light from fluorescent bulbs. 1968 [classical article] Schall EL, et al. **Am Ind Hyg Assoc J** 1990 Apr;51(4):A259–60

PSYCHOLOGY

Empathy, self–esteem and creativity among junior ballet dancers. Kalliopuska M. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1227–34
Eating attitudes and taste responses in young ballerinas. Martin C, et al. **Physiol Behav** 1989 Aug;46(2):223–7

DANDY–WALKER SYNDROME see under **HYDROCEPHALUS**

DANE PARTICLE see **HEPATITIS B VIRUS**

DANGEROUS BEHAVIOR see under **VIOLENCE**

DANITRACEN see under **PIPERIDINES**

DANSYL COMPOUNDS

High–performance liquid chromatographic determination of delta–(L–alpha–aminoadipyl)–L–cysteinyl–D–valine in complex media by precolumn derivatisation with dansylaziridine. Orford CD, et al. **J Chromatogr** 1989 Nov 3;481:245–54
Fluorescence lifetime and rotational correlation time of bovine serum albumin–sodium dodecyl sulfate complex labeled with 1–dimethylaminonaphthalene–5–sulfonyl chloride: effect of disulfide bridges in the protein on these fluorescence parameters. Takeda K, et al.
J Protein Chem 1990 Feb;9(1):17–22
Synthesis and use of labelled nucleoside phosphoramidite building blocks bearing a reporter group: biotinyl, dinitrophenyl, pyrenyl and dansyl. Roget A, et al.
Nucleic Acids Res 1989 Oct 11;17(19):7643–51
Oligonucleotides, part 5+: synthesis and fluorescence studies of DNA oligomers d(AT)5 containing adenines covalently linked at C–8 with dansyl fluorophore. Singh D, et al.
Nucleic Acids Res 1990 Jun 11;18(11):3339–45
[Protein sequencing with dansylamino–PITC] Hirano H.
Tanpakushitsu Kakusan Koso 1989 Jun;34(7):876–81 **(Jpn)**

ANALYSIS

Thin layer chromatography of dansyl and dinitrophenyl derivatives of amino acids. A review. Bhushan R, et al.
Biomed Chromatogr 1989 Nov;3(6):233–40 (47 ref.)
Optical enrichment of dansyl–rac–amino acids by formation of crystalline inclusion complexes with cyclodextrins. Jin HL, et al. **Chirality** 1989;1(2):137–41
Optimization of an HPLC peroxyoxalate chemiluminescence detection system for some dansyl amino acids. Baeyens W, et al. **J Biolumin Chemilumin** 1990 Jan–Mar;5(1):13–23

CHEMICAL SYNTHESIS

Synthesis and characterization of the dansyltyrosine derivatives of porcine pancreatic colipase. McIntyre JC, et al. **Biochemistry** 1990 Feb 27;29(8):2092–101
Synthesis and biological activity of dansyl thymidines. Bonora GM, et al. **Farmaco** 1989 Oct;44(10):951–8

DIAGNOSTIC USE

[Preparation and isolation of dansyladenylates as fluorescent substrates in reactions of the energy metabolism] Tkachenko AG. **Prikl Biokhim Mikrobiol** 1990 Jan–Feb; 26(1):124–30 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Enantiomer resolution in immobilized pH gradient gels via inclusion of a chiral discriminator. Righetti PG, et al.
Electrophoresis 1990 Jan;11(1):1–4

METABOLISM

The fatty acid analogue 11–(dansylamino)undecanoic acid is a fluorescent probe for the bilirubin–binding sites of albumin and not for the high–affinity fatty acid–binding sites. Wilton DC. **Biochem J** 1990 Aug 15;270(1):163–6
Synthesis and characterization of the dansyltyrosine derivatives of porcine pancreatic colipase. McIntyre JC, et al. **Biochemistry** 1990 Feb 27;29(8):2092–101
Studies of the role of factor Va in the factor Xa–catalyzed activation of prothrombin, fragment 1.2–prethrombin–2, and dansyl–L–glutamyl–glycyl–L–arginine–meizothrombin in the absence of phospholipid. Boskovic DS, et al.
J Biol Chem 1990 Jun 25;265(18):10497–505

PHARMACOLOGY

The effects of dansylation on the pH dependence of SO4(2–) and Cl– equilibrium exchange and on the H+/SO4(2–) cotransport across the red blood cell membrane. Berghout A, et al. **Biochim Biophys Acta** 1989 Nov 17;986(1):75–82
Peripheral injection of DNS–RFa, a FMRFa agonist, suppresses morphine–induced analgesia in rats. Brussaard AB, et al. **Peptides** 1989 Jul–Aug;10(4):735–9

DANTROLENE

ADMINISTRATION & DOSAGE

Treatment of lethal catatonia with electroconvulsive therapy and dantrolene sodium: a case report. Nolen WA, et al.
Acta Psychiatr Scand 1990 Jul;82(1):90–2
How much dantrolene? A case of fulminant malignant hyperthermia. Cain AG, et al. **Anaesth Intensive Care** 1989 Nov;17(4):500–2

ADVERSE EFFECTS

More on rhabdomyolysis associated with cocaine intoxication [letter] Fox AW. **N Engl J Med** 1989 Nov 2;321(18):1271
Dantrolene sodium and hepatic injury. Chan CH.
Neurology 1990 Sep;40(9):1427–32

METABOLISM

Determination of a dantrolene metabolite, 5–(p–nitrophenyl)–2–furoic acid, in plasma and urine by high–performance liquid chromatography. Wuis EW, et al.
J Chromatogr 1990 Apr 6;526(2):575–80

PHARMACOLOGY

Effect of dantrolene on ventilation and respiratory muscle activity in anaesthetized dogs. Oliven A, et al.
Br J Anaesth 1990 Feb;64(2):207–13
Dantrolene suppresses the hyperpolarization or outward current observed during anoxia in hippocampal neurons. Krnjević K, et al. **Can J Physiol Pharmacol** 1989 Dec; 67(12):1602–4
Effect of diltiazem, verapamil and dantrolene on the contractility of isolated malignant hyperpyrexia–susceptible human skeletal muscle. Foster PS, et al.
Clin Exp Pharmacol Physiol 1989 Oct;16(10):799–805
Dantrolene sodium diminishes exercise–induced muscle damage in the rat. Amelink GJ, et al. **Eur J Pharmacol** 1990 Apr 10;179(1–2):187–92
Inhibitory action of dantrolene on Ca–induced Ca2+ release from sarcoplasmic reticulum in guinea pig skeletal muscle. Ohta T, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):11–9
Effect of dantrolene sodium in isolated guinea–pig trachea. Sanz CM, et al. **Eur J Pharmacol** 1990 Feb 6;176(2):177–85
Dantrolene normalizes serum creatine kinase in MDX mice [letter] Quinlan JG, et al. **Muscle Nerve** 1990 Mar; 13(3):268–9
The effect of propranolol, verapamil and dantrolene treatment on cardiac hypertrophy, enhanced myocardial contractility and tachycardia in the hyperthyroid rat. Wheatley AM, et al. **Pharmacol Res** 1990 May–Jun; 22(3):307–18

THERAPEUTIC USE

Malignant hyperthermia. Treatment of the acute episode. Krivosic–Horber R. **Acta Anaesthesiol Belg** 1990;41(2):83–6 (15 ref.)
Dantrolene sodium in neuroleptic malignant syndrome and hepatic impairment [letter] Velamoor VR.
Can J Psychiatry 1990 May;35(4):364–5
Dantrolene sodium in traumatic muscle contracture: double–blind clinical and pharmacological trial. Flacco L, et al. **Clin Ther** 1989 Sep–Oct;11(5):623–32
Is dantrolene effective in heat stroke patients? Channa AB, et al. **Crit Care Med** 1990 Mar;18(3):290–2
Survival of severe neuroleptic malignant syndrome in a

78-year-old man treated with dantrolene. Kimerer NB, et al. **J Okla State Med Assoc** 1990 Mar;83(3):122-4
[Treatment of malignant hyperthermia crisis during anesthesia] Amiel I, et al. **Ann Fr Anesth Reanim** 1989; 8(5):427-34 (57 ref.) (Eng. Abstr.) **(Fre)**
[Management of a patient with malignant hyperthermia susceptibility during anesthesia and daily living] Jacquot C, et al. **Ann Fr Anesth Reanim** 1989;8(5):417-26 (131 ref.) (Eng. Abstr.) **(Fre)**
[The treatment of malignant hyperthermia] Girard JF, et al. **Cah Anesthesiol** 1990 Jan;38(1):55-6 **(Fre)**
[Dantrolene in tetanus] Sternlo JE, et al. **Lakartidningen** 1989 Sep 13;86(37):3055-6 **(Swe)**

DAPHNIA

DRUG EFFECTS

Toxicity test procedures for Hyalella azteca, and chronic toxicity of cadmium and pentachlorophenol to H. azteca, Gammarus fasciatus, and Daphnia magna. Borgmann U, et al. **Arch Environ Contam Toxicol** 1989 Sep;18(5):756-64
A model to test the potency of inhalation anaesthetics [see comments] McKenzie JD, et al. **Br J Anaesth** 1989 Oct; 63(4):489-91 Comment in: Br J Anaesth 1990 May;64(5):649.
[Evaluation of dyed substances in purified waste water in experiments on water organisms] Novikova LN, et al. **Gig Sanit** 1989 Aug;(8):78-80 **(Rus)**

METABOLISM

Bioavailability of benzo(a)pyrene and dehydroabietic acid from a few lake waters containing varying dissolved organic carbon concentrations to Daphnia magna. Oikari A, et al. **Bull Environ Contam Toxicol** 1990 Jul;45(1):54-61

PHYSIOLOGY

The reproducibility of the three brood Ceriodaphnia test using the reference toxicant sodium lauryl sulfate. Cowgill UM, et al. **Arch Environ Contam Toxicol** 1990 Jul-Aug; 19(4):513-7
Evaluation of a 14-day static renewal toxicity test with Daphnia magna straus. Gersich FM, et al. **Arch Environ Contam Toxicol** 1990 Jan-Feb;19(1):72-6
Effects of deltamethrin and ethanol on survival, and mechanical response of Daphnia spinulata. Alberdi JL, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):266-71
Chronic toxicity of biphenyl to Daphnia magna Straus. Gersich FM, et al. **Bull Environ Contam Toxicol** 1989 Sep; 43(3):355-62
Use of Selenastrum capricornutum and Microfeast as food for Daphnia pulex. Price EE, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):59-66
Investigation of correlation between physiochemical properties of metals and their toxicity to the water flea Daphnia magna Straus. Khangarot BS, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):109-20
Eye movements in Daphnia magna. Regions of the eye are specialized for different behaviors. Consi TR, et al. **J Comp Physiol [A]** 1990 Feb;166(3):411-20
UV photoreceptors in the compound eye of Daphnia magna (Crustacea, Branchiopoda). A fourth spectral class in single ommatidia. Smith KC, et al. **J Comp Physiol [A]** 1990 Mar; 166(5):597-606

DAPSONE

Dapsone and sulfapyridine. Uetrecht J. **Clin Dermatol** 1989 Jul-Sep;7(3):111-20 (67 ref.)

ADMINISTRATION & DOSAGE

Blister calendar packs for dapsone monotherapy [letter] McDougall AC. **Int J Lepr Other Mycobact Dis** 1990 Mar; 58(1):121-3
Oral therapy for Pneumocystis carinii pneumonia in the acquired immunodeficiency syndrome. A controlled trial of trimethoprim-sulfamethoxazole versus trimethoprim-dapsone. Medina I, et al. **N Engl J Med** 1990 Sep 20;323(12):776-82
Design and in vitro evaluation of dapsone-loaded micropellets of ethyl cellulose. Roy S, et al. **Pharm Res** 1989 Nov;6(11):945-8
Effect of three-year multidrug therapy in multibacillary leprosy patients. Li W, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1990; 5(1):37-40
[Short- and long-term results of tuberculosis therapy with a fixed combination of isoniazide, prothionamide and diaminodiphenylsulfone combined with rifampicin] Hoose C, et al. **Pneumologie** 1990 Feb;44 Suppl 1:458-9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Dapsone-induced haemolytic anaemia and agranulocytosis in a patient with normal glucose-6-phosphate-dehydrogenase activity. Figueiredo MS, et al. **Acta Haematol (Basel)** 1989;82(3):144-5
The incidence of agranulocytosis during treatment of dermatitis herpetiformis with dapsone as reported in Sweden, 1972 through 1988. Hörnsten P, et al. **Arch Dermatol** 1990 Jul;126(7):919-22
Megaloblastic pancytopenia associated with dapsone and trimethoprim treatment of Pneumocystis carinii pneumonia in the acquired immunodeficiency syndrome [letter; comment] Crosby WH. **Arch Intern Med** 1990 May; 150(5):1141 Comment on: Arch Intern Med 1989 Apr;149(4):965.
Manic depression induced by dapsone in patient with dermatitis herpetiformis. Gawkrodger D. **BMJ** 1989 Sep 30;299(6703):860
Dapsone induced psychosis. Balkrishna, et al. **J Indian Med Assoc** 1989 May;87(5):120-1
Serious adverse drug reactions to pyrimethamine-sulphadoxine, pyrimethamine-dapsone and to amodiaquine in Britain. Phillips-Howard PA, et al. **J R Soc Med** 1990 Feb;83(2):82-5
Dapsone-induced erythroderma with Beau's lines. Patki AH, et al. **Lepr Rev** 1989 Dec;60(4):274-7
Increased incidence in leprosy of hypersensitivity reactions to dapsone after introduction of multidrug therapy. Richardus JH, et al. **Lepr Rev** 1989 Dec;60(4):267-73
[Occurrence of methemoglobinemia induced by dapsone in the treatment of pneumocystosis associated with AIDS] Orfeuvre H, et al. **Therapie** 1989 Nov-Dec;44(6):451-2 **(Fre)**

ANALOGS & DERIVATIVES

Preparation and biological activity of new substituted antimalarial diaminodiphenylsulfones. Pieper H, et al. **Arzneimittelforschung** 1989 Sep;39(9):1073-80
Studies on 2,3,N,N'-substituted 4,4'-diaminodiphenylsulfones as potential antimalarial agents. Saxena M, et al. **Arzneimittelforschung** 1989 Sep;39(9):1081-4
Multiple-dose kinetics in healthy volunteers and in vitro antimalarial activity of proguanil plus dapsone. Edstein MD, et al. **Chemotherapy** 1990;36(3):169-76

METABOLISM

Bioactivation of dapsone to a cytotoxic metabolite by human hepatic microsomal enzymes. Coleman MD, et al. **Br J Clin Pharmacol** 1989 Oct;28(4):389-95
Scleroderma is associated with differences in individual routes of drug metabolism: a study with dapsone, debrisoquin, and mephenytoin. May DG, et al. **Clin Pharmacol Ther** 1990 Sep;48(3):286-95

PHARMACOKINETICS

Multiple-dose kinetics in healthy volunteers and in vitro antimalarial activity of proguanil plus dapsone. Edstein MD, et al. **Chemotherapy** 1990;36(3):169-76

PHARMACOLOGY

In vitro susceptibilities of oxacillin-resistant Staphylococcus aureus to dapsone and sulfamethoxazole alone and in combination with trimethoprim. Lambertus MW, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1453-5
In vitro and in vivo experiments with the new inhibitor of mycobacterium leprae brodimoprim alone and in combination with dapsone. Seydel JK, et al. **Arzneimittelforschung** 1990 Jan;40(1):69-75
An in vitro culture method for screening new drugs against Mycobacterium leprae. Dhople AM, et al. **Indian J Lepr** 1990 Jan-Mar;62(1):66-75
Primary dapsone resistance as assessed by uptake of labelled thymidine by the macrophage resident Mycobacterium leprae. Thakur M, et al. **Indian J Lepr** 1989 Oct; 61(4):437-41
Primary dapsone resistance in China. Chen JK, et al. **Lepr Rev** 1989 Dec;60(4):263-6
Antagonism between dapsone and rifampicin in experimental Mycobacterium leprae infections in mice. Millan JP, et al. **Res Microbiol** 1989 Feb;140(2):143-50
Effects of mutagenic and non-mutagenic aniline derivatives on rat liver drug-metabolizing enzymes. Wu K, et al. **Xenobiotica** 1989 Nov;19(11):1275-83
[Dapsone inhibition of the bactericidal action of rifampicin on Mycobacterium leprae in mice] Millan J, et al. **Med Trop (Mars)** 1989 Oct-Dec;49(4):337-41 (Eng. Abstr.) **(Fre)**

POISONING

Presumed DDS ocular toxicity. Alexander TA, et al. **Indian J Ophthalmol** 1989 Jul-Sep;37(3):150-1
Acute dapsone poisoning [letter] Nayak US, et al. **Indian Pediatr** 1989 Jul;26(7):730-1
Recurrent methemoglobinemia after acute dapsone intoxication in a child. Linakis JG, et al. **J Emerg Med** 1989 Sep-Oct;7(5):477-80
Recurrent methemoglobinemia after acute dapsone intoxication in a child [letter] Wolfson AB. **J Emerg Med** 1990 May-Jun;8(3):351-2
Management of dapsone poisoning complicated by methaemoglobinaemia. Dawson AH, et al. **Med Toxicol Adverse Drug Exp** 1989 Sep-Oct;4(5):387-92

THERAPEUTIC USE

A review of therapeutic and hemolytic effects of dapsone. DeGowin RL. **Arch Intern Med** 1967 Aug;120(2):242-8 (66 ref.)
Crohn's disease and mycobacteria: two cases of Crohn's disease with high anti-mycobacterial antibody levels cured by dapsone therapy. Prantera C, et al. **Biomed Pharmacother** 1989;43(4):295-9 (30 ref.)
Dapsone as first line therapy for bullous pemphigoid. Venning VA, et al. **Br J Dermatol** 1989 Jan;120(1):83-92
Histopathological findings in the iris of dapsone treated leprosy patients. Brandt F, et al. **Br J Ophthalmol** 1990 Jan;74(1):14-8
Isoprodian and rifampicin in the treatment of leprosy: a descriptive evaluation of therapy durations in 475 Paraguayan leprosy patients. Pritze S, et al. **Chemotherapy** 1989;35(5):373-82
Adjuvant therapy of bullous pemphigoid with dapsone. Jeffes EW 3d, et al. **Clin Exp Dermatol** 1989 Mar;14(2):132-6
Follicular mucinosis presenting as acute dermatitis and response to dapsone. Rustin MH, et al. **Clin Exp Dermatol** 1989 Sep;14(5):382-4
Clinico-histopathological study of multidrug therapy in indeterminate leprosy. Kar PK, et al. **Indian J Lepr** 1990 Jan-Mar;62(1):98-103
Selection of MDT strategies through epidemiometric modeling. Lechat MF, et al. **Int J Lepr Other Mycobact Dis** 1990 Jun;58(2):296-301
Relapses in multibacillary leprosy [letter] Reddy RN. **Int J Lepr Other Mycobact Dis** 1990 Jun;58(2):379-80
Lupus erythematosus profundus—report of a case treated with dapsone. Yamada Y, et al. **J Dermatol** 1989 Oct; 16(5):379-82
Plasmodium vivax resistance to chloroquine? Rieckmann KH, et al. **Lancet** 1989 Nov 18;2(8673):1183-4
Bacillaemia in leprosy and effect of multidrug therapy. Chatterjee G, et al. **Lepr Rev** 1989 Sep;60(3):197-201
Mycobacterium leprae reactive T cell clones from lepromatous leprosy patients after prolonged dapsone chemotherapy. Gill HK, et al. **Lepr Rev** 1990 Mar; 61(1):25-31
Evaluation of Mycobacterium leprae antigens in the monitoring of a dapsone-based chemotherapy of previously untreated lepromatous patients in Cebu, Philippines. Klatser PR, et al. **Lepr Rev** 1989 Sep;60(3):178-86
Evaluation of five treatment regimens, using either dapsone monotherapy or several doses of rifampicin in the treatment of paucibacillary leprosy. Pattyn SR, et al. **Lepr Rev** 1990 Jun;61(2):151-6
Methods of leprosy prevention [letter; comment] Crawford CL. **Nature** 1990 May 31;345(6274):392 Comment on: Nature 1989 Nov 9;342(6246):115-20.
Scleritis in relapsing polychondritis. Response to therapy. Hoang-Xaun T, et al. **Ophthalmology** 1990 Jul;97(7):892-8
A comparative study of Lapudrine (chlorproguanil) and Maloprim (pyrimethamine and dapsone) as chemoprophylactics against malaria in Gambian children. Greenwood BM, et al. **Trans R Soc Trop Med Hyg** 1989 Mar-Apr;83(2):182-8
Cellular immune responses to Plasmodium falciparum antigens in children receiving long term anti-malarial chemoprophylaxis. Otoo LN, et al. **Trans R Soc Trop Med Hyg** 1989 Nov-Dec;83(6):778-82
[Disulone: focus on its indications in dermatology] Joubert B, et al. **Ann Dermatol Venereol** 1990;117(1):63-71 **(Fre)**

TOXICITY

Inhibition of dapsone-induced methaemoglobinaemia in the rat. Coleman MD, et al. **Biochem Pharmacol** 1990 Feb 15; 39(4):802-5
Sex-dependent sensitivity to dapsone-induced methaemoglobinaemia in the rat. Coleman MD, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):805-9
Drug-induced oxidative denaturation in red blood cells. Stern A. **Semin Hematol** 1989 Oct;26(4):301-6 (52 ref.)

DARIER'S DISEASE see **KERATOSIS FOLLICULARIS**

DARK ADAPTATION

The scotopic threshold response in diabetic retinopathy—a preliminary report. Aylward GW, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):369-72
J. Grossfield's unpublished work with the light-dependent auraria complex of Drosophila [letter] Ehrman L. **Behav Genet** 1989 Sep;19(5):735-6
Light- and dark-adapted bacteriorhodopsin, a time-resolved neutron diffraction study. Dencher NA, et al. **Biochim Biophys Acta** 1990 Jul 9;1026(1):51-6
Dark adaptation compared with electrooculography in primary biliary cirrhosis. Barber C, et al. **Doc Ophthalmol** 1989 Apr;71(4):397-402
Cone dystrophy and supernormal dark-adapted b-waves in the electroretinogram. Foerster MH, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(2):116-9 (11 ref.)
Dark adaptation in glaucomatous and nonglaucomatous optic nerve atrophy. Jonas JB, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(4):321-5
Dark adaptation in locally detached retina. Mori T, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1259-63
Failure of dark adaptation to upregulate D-1 dopamine receptors in retina of senescent rats. Porceddu ML, et al. **Neurobiol Aging** 1990 Mar-Apr;11(2):105-9
Cytoplasmic free calcium concentration in dark-adapted retinal rod outer segments. Korenbrot JI, et al. **Vision Res** 1989;29(8):939-48
Retinoids bound to interstitial retinol-binding protein during

light and dark-adaptation. Lin ZS, et al. **Vision Res** 1989; 29(12):1699–709

[Ocutrast—a new procedure for measuring mesopic visual acuity and glare sensitivity] Nowak MR. **Fortschr Ophthalmol** 1990;87(2):192–5 (Eng. Abstr.) **(Ger)**

[Additive hypotheses of the effect of head and eye movement on dark convergence] Heuer H, et al. **Z Exp Angew Psychol** 1989;36(3):411–32 (Eng. Abstr.) **(Ger)**

[Study on choroidal blood flow at dark and light adaptation. 1. Choroidal blood flow at dark adaptation] Morimoto N. **Nippon Ganka Gakkai Zasshi** 1989 Jul;93(7):790–5 (Eng. Abstr.) **(Jpn)**

[Central physiologic relative scotoma after dark adaptation] Novokhatskil AS, et al. **Oftalmol Zh** 1989;(3):171–5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Reduced dark-adaptation: an indication of lithium's neuronal action in humans. Emrich HM, et al. **Am J Psychiatry** 1990 May;147(5):629–31

A study of the effect of isoniazid and cimetidine on dark adaptation of human eye. Bhavsar VH, et al. **Indian J Physiol Pharmacol** 1990 Jan;34(1):67–9

PHYSIOLOGY

Effects of yellow, orange and red filter glasses on the thresholds of a dark-adapted human eye. Aarnisalo E, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):168–74

The effect of hypoxia upon macular recovery time in normal humans. Brinchmann-Hansen O, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1183–6

The photoreceptors in atypical achromatopsia. Hess RF, et al. **J Physiol (Lond)** 1989 Oct;417:123–49

Relations between accommodation and vergence in darkness. Wolf KS, et al. **Optom Vis Sci** 1990 Feb;67(2):89–93

Dark-adaptation mechanisms of the long-wave foveal cones. Stabell U, et al. **Scand J Psychol** 1989;30(3):207–19

Losses of foveal flicker sensitivity during dark adaptation following extended bleaches. Eisner A. **Vision Res** 1989; 29(10):1401–23

The effect of dark adaptation on the responses of cat retinal ganglion cells to eyeball deformation. Grüsser OJ, et al. **Vision Res** 1989;29(9):1059–68

The oscillatory potentials in response to stimuli of photopic intensities delivered in dark-adaptation: an explanation for the conditioning flash effect. Lachapelle P, et al. **Vision Res** 1990;30(4):503–13

Rod flicker perception: scotopic duality, phase lags and destructive interference. Sharpe LT, et al. **Vision Res** 1989; 29(11):1539–59

Light and dark adaptation in fly photoreceptors: duration and time integral of the impulse response. Weckström M. **Vision Res** 1989;29(10):1309–17

Isolation of scotopic human electroretinograms using color adaptation and pattern reversal stimuli. Wu SA, et al. **Vision Res** 1989;29(10):1277–83

Electroretinographic b-wave merely reflects the activity of the rod system in the dark-adapted carp retina. Yang XL, et al. **Vision Res** 1990;30(7):993–9

[Changes of the retinal structure and mechanisms of their regulation during light and dark adaptation] Wang HH. **Sheng Li Ke Hsueh Chin Chan** 1990 Jan;21(1):9–12 (39 ref.) **(Chi)**

[Physiological specificity of dark focus of accommodation] Itoh S. **Nippon Ganka Gakkai Zasshi** 1990 Feb;94(2):190–6 (Eng. Abstr.) **(Jpn)**

[The significance of the phenomenon of dynamic disadaptation scotoma in the early diagnosis of macular dystrophies] Shigina RP. **Oftalmol Zh** 1989;(8):457–9 (Eng. Abstr.) **(Rus)**

DARKNESS

Phase-shifting the light-dark cycle resets the food-entrainable circadian pacemaker. Ottenweller JE, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R994–1000

Compatibility of the aviation night vision imaging systems and the aging aviator. Farr WD. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 2):B78–80

Localization of cyclic adenosine monophosphate in the teleost retina: effects of dopamine and prolonged darkness. Young LH, et al. **Brain Res** 1989 Dec 11;504(1):57–63

Ouabain (or salt solution lacking potassium) mimics the effects of dark pulses on the circadian pacemaker in cultured chick pineal cells. Zatz M, et al. **Brain Res** 1989 Oct 30;501(1):37–45

Photoendocrine transduction in cultured chick pineal cells. III. Ouabain (or dark) pulses can block, overcome, or alter the phase response of the melatonin rhythm to light pulses. Zatz M, et al. **Brain Res** 1989 Oct 30;501(1):46–57

The effect of dark-rearing on dendritic development in two regions of the forebrain of the domestic chick. Galal KM, et al. **Brain Res Dev Brain Res** 1990 Apr 1;53(1):135–8

Effects of acute cold exposure at night on pineal N-acetyltransferase activity and melatonin content in white-footed mice, Peromyscus leucopus. Tannenbaum MG, et al. **Comp Biochem Physiol [A]** 1990;95(3):363–6

N-methyl-D-aspartate-evoked calcium uptake by kitten visual cortex maintained in vitro. Feldman D, et al. **Exp Brain Res** 1990;80(2):252–9

Effects of dark rearing on the development of visual callosal connections. Frost DO, et al. **Exp Brain Res** 1989; 78(1):203–13

DNA synthesis is unaffected but subsequent cell division is delayed in tadpole hindlimb epidermis when thyroxine is given in the dark. Wright ML, et al. **Gen Comp Endocrinol** 1990 Jul;79(1):89–94

Timolol reduces IOP in normal NZW rabbits during the dark only. Gregory DS. **Invest Ophthalmol Vis Sci** 1990 Apr; 31(4):715–21

Uptake of [3H]dopamine in the mouse adrenal medulla during dark and light period. Hirano T, et al. **J Auton Nerv Syst** 1989 Oct;28(1):89–93

Running activity mediates the phase-advancing effects of dark pulses on hamster circadian rhythms. Reebs SG, et al. **J Comp Physiol [A]** 1989 Oct;165(6):811–8

Efferent control of temporal response properties of the Limulus lateral eye. Batra R, et al. **J Gen Physiol** 1990 Feb;95(2):229–44

Constant darkness enhances autoimmunity to type II collagen and exaggerates development of collagen-induced arthritis in DBA/1 mice. Hansson I, et al. **J Neuroimmunol** 1990 Apr;27(1):79–84

Molecular and morphological changes in the cat lateral geniculate nucleus and visual cortex induced by visual deprivation are revealed by monoclonal antibodies Cat-304 and Cat-301. Guimarães A, et al. **J Neurosci** 1990 Sep; 10(9):3014–24

The firing of hippocampal place cells in the dark depends on the rat's recent experience. Quirk GJ, et al. **J Neurosci** 1990 Jun;10(6):2008–17

Extracellular pH in the isolated retina of the toad in darkness and during illumination. Oakley B 2d, et al. **J Physiol (Lond)** 1989 Dec;419:353–78

Circadian rhythm of serum testosterone levels in male beagle dogs—effects of lighting time zone. Fukuda S. **Jikken Dobutsu** 1990 Jan;39(1):65–8

The effects of dark and light on the functional recovery following lateral hypothalamic lesions. Harrell LE, et al. **Life Sci** 1974 Dec 15;15(12):2079–87

Exposure to bright light and darkness to treat physiologic maladaptation to night work [see comments] Czeisler CA, et al. **N Engl J Med** 1990 May 3;322(18):1253–9 Comment in: N Engl J Med 1990 May 3;322(18):1306–8.

The overnight thermal environment of infants. Tuohy PG, et al. **N Z Med J** 1990 Feb 14;103(883):36–8

Changes with darkness in regional brain 5-hydroxytryptamine and 5-hydroxyindole acetic acid: local differences with pinealectomy, sham surgery, and melatonin. Quay WB. **Neurochem Res** 1989 Oct; 14(10):957–61

Patterns of pineal melatonin secretion in rabbits: diurnal variation of basal and pulsatile release. Chan YS, et al. **Neuroendocrinology** 1990 Feb;51(2):147–55

An early pineal-induced suppression of pituitary prolactin mRNA levels in light-deprived male hamsters. Massa JS, et al. **Neuroendocrinology** 1989 Nov;50(5):506–12

Constant exposure to darkness produces supersensitivity to nicotine. Flemmer DD, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):523–6

[Effects of photo-inversion on the general structure of biological rhythms of thymocyte mitotic activity] Romanov IuA, et al. **Biull Eksp Biol Med** 1990 May; 109(5):481–3 **(Rus)**

DATA ANALYSIS, STATISTICAL see **DATA INTERPRETATION, STATISTICAL**

DATA BANKS see **INFORMATION SYSTEMS**

DATA COLLECTION

Who else responds to postal questionnaires? Are those involved in the subject of the study more likely to do so? Cartwright A, et al. **Community Med** 1989 Nov;11(4):373–5

Microcomputer collection and analysis of RR-interval data in the BB-rat. McEwen TA, et al. **Comput Biol Med** 1989; 19(6):443–52

Adjusting for clustering in survey research. Ferguson JA, et al. **DICP** 1990 Mar;24(3):310–3

Diarrheal diseases survey guide. **Epidemiol Bull** 1990;11(2):14

A comparison of EPA screening measurements and annual 222Rn concentrations in statewide surveys. Steck DJ. **Health Phys** 1990 Apr;58(4):523–30

Use of telephone interviewing in health care research. Corey CR, et al. **Health Serv Res** 1990 Apr;25(1 Pt 1):129–44

Iowa Health Data Commission update. **Iowa Med** 1989 Aug; 79(8):390–1

Recall bias in epidemiologic studies. Coughlin SS. **J Clin Epidemiol** 1990;43(1):87–91

Results of immunization surveys. Beaver J, et al. **J Tenn Med Assoc** 1990 Apr;83(4):192–3, 195

Development of a statewide trauma registry. Gillott AR, et al. **J Trauma** 1989 Dec;29(12):1667–72

From the Centers for Disease Control. Proposed changes in format for presentation of notifiable disease report data. **JAMA** 1990 Jan 5;263(1):25–6, 29

Is there still too much extrapolation from data on middle-aged white men? [news] Cotton P. **JAMA** 1990 Feb 23;263(8):1049–50

Proposed changes in format for presentation of notifiable disease report data. **MMWR** 1989 Dec 1;38(47):805–9

A model for planning local contraceptive services. Wilson S. **Public Health** 1989 Sep;103(5):369–76

Computerized patch test data collection and analysis. Rosenthal LE. **Semin Dermatol** 1989 Jun;8(2):113–6

Group sequential procedures: calendar versus information time. Demets DL. **Stat Med** 1989 Oct;8(10):1191–8

Paperless Poison Center: an alternative to bubbling. Weisman R, et al. **Vet Hum Toxicol** 1990 Apr;32(2):149–50

[Proposal for a data collection system for colposcopy services] Veglio PC, et al. **Minerva Ginecol** 1990 Apr; 42(4):139–42 (Eng. Abstr.) **(Ita)**

[A new computerized system for electroencephalography at the Kochi Medical School Hospital: the present status and problems of electroencephalogram data filing systems] Doi T, et al. **Rinsho Byori** 1990 Jun;38(6):651–6 (Eng. Abstr.) **(Jpn)**

[Overflow of data collected in clinical trials] Taube A. **Lakartidningen** 1990 Jul 11;87(28–29):2367 **(Swe)**

ECONOMICS

Discussion of papers on cost and efficiency of data collection in clinical trials. Ellenberg SS. **Stat Med** 1990 Jan–Feb; 9(1–2):145–8; discussion 148–51

INSTRUMENTATION

Easily assembled digital data acquisition system for the analytical ultracentrifuge. Sackett DL, et al. **Anal Biochem** 1989 Aug 1;180(2):319–25

Liquid chromatography/time-of-flight mass spectrometry with high-speed integrated transient recording. Emary WB, et al. **Anal Chem** 1990 Jul 1;62(13):1319–24

Alcoholic beverage type, recall period effects and functional disability: evidence from the 1983 NHIS. Laforge RG, et al. **Drug Alcohol Depend** 1990 Jun;25(3):257–72

Practical considerations in designing data collection forms. Wasek PA. **Infect Control Hosp Epidemiol** 1990 Jul; 11(7):384–9

The uses of the anesthesia record. Gravenstein JS. **J Clin Monit** 1989 Oct;5(4):256–65

The microcomputer as a clinical research tool. Stevens DC, et al. **J Perinatol** 1989 Sep;9(3):318–22

Microcomputer adaptation of the wheel-shaped activity monitor: effects of lindane. Llorens J, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):1003–6

Measurement and control of pecking response location in the pigeon. Allan RW, et al. **Physiol Behav** 1989 Jun; 45(6):1215–21

Lick sensors as tools in behavioral and neuroscience research. Weijnen JA. **Physiol Behav** 1989 Dec;46(6):923–8

The French version of the Nottingham Health Profile. A comparison of items weights with those of the source version. Bucquet D, et al. **Soc Sci Med** 1990;30(7):829–35

METHODS

Surrogate measures of dietary intake. Samet JM. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1139–44; discussion 1231–5 (15 ref.)

Partitioning macronutrient intake estimates from a food frequency questionnaire. Flegal KM, et al. **Am J Epidemiol** 1990 Jun;131(6):1046–58

Validating survey responses to questions about gun ownership among owners of registered handguns. Kellermann AL, et al. **Am J Epidemiol** 1990 Jun; 131(6):1080–4

Effectiveness of various mailing strategies among nonrespondents in a prospective cohort study. Rimm EB, et al. **Am J Epidemiol** 1990 Jun;131(6):1068–71

A methodology for the collection of supplemental information on agricultural fatalities. Seltzer BL, et al. **Am J Ind Med** 1990;18(2):201–9

The network approach: a means for the collection of integrated data following standardized protocols. Paling RW. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:137–43; discussion 144

Survey design and conclusions [letter; comment] Walker BN. **Aust Dent J** 1990 Apr;35(2):194–5 Comment on: Aust Dent J 1989 Dec;34(6):536–47.

Surveillance and sentinel systems. Dunstone M, et al. **Aust Fam Physician** 1990 Aug;19(8):1267–9, 1272–7

Automating the flight surgeon's report, simplifying the investigative-reportage task, and enhancing the data quality and depth: a concept. Guill FD. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 2):B89–105

Data collection from very thin HLA crystals using synchrotron radiation. Bjorkman PJ, et al. **Basic Life Sci** 1989;51:123–31

Methods and basic data of case-control study of leukaemia and lymphoma among young people near Sellafield nuclear plant in West Cumbria. Gardner MJ, et al. **BMJ** 1990 Feb 17;300(6722):429–34

Collection of food intake data: a reappraisal of criteria for judging the methods. Borrelli R. **Br J Nutr** 1990 May; 63(3):411–7

Editorial peer review: methodology and data collection. Weller AC. **Bull Med Libr Assoc** 1990 Jul;78(3):258–70

Obtaining epidemiologic information on the improper use of psychoactive substances: strategies applied in Argentina. Míguez HA. **Bull Pan Am Health Organ** 1990;24(1):63–9

Development of a System for Registry of Information on Drug use in Mexico. Ortiz A.

Bull Pan Am Health Organ 1990;24(1):46–52
Parental attitudes toward pediatric organ donation: a survey. Walker JA, et al. **Can Med Assoc J** 1990 Jun 15; 142(12):1383–7
An evaluation of population pharmacokinetics in therapeutic trials. Part III. Prospective data collection versus retrospective data assembly. Antal EJ, et al. **Clin Pharmacol Ther** 1989 Nov;46(5):552–9
Baseline characteristics in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Brown KM, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):40S–64S
Computer-assisted data collection in multicenter epidemiologic research. The Atherosclerosis Risk in Communities Study. Christiansen DH, et al. **Controlled Clin Trials** 1990 Apr;11(2):101–15
The Mid-Atlantic Oncology Program's comparison of two data collection methods. Jasperse DM, et al. **Controlled Clin Trials** 1989 Sep;10(3):282–9
Telephone versus face to face interviewing as a means of collecting data relevant to the management of diabetes among general practitioners in France: a randomized design. Chwalow AJ, et al. **Diabete Metab** 1989 Jul–Aug; 15(4):157–60
The use of key informant networks in assessment of community health. Gregor S, et al. **Fam Med** 1990 Mar–Apr;22(2):118–21
Integrating qualitative and quantitative research methods. Stange KC, et al. **Fam Med** 1989 Nov–Dec;21(6):448–51
Hypothesizing and evidence-gathering: the nexus of understanding. Sadler JZ, et al. **Fam Process** 1989 Sep; 28(3):255–67
Diagnosis, measurement and surveillance of coronary events. Tunstall-Pedoe H. **Int J Epidemiol** 1989;18(3 Suppl 1):S169–73
Collecting vital statistics. **Iowa Med** 1989 Nov;79(11):548
Accuracy of visual estimates of plate waste in the determination of food consumption. Dubois S. **J Am Diet Assoc** 1990 Mar;90(3):382–7
Collecting cancer registry data with a Cancer Patient Questionnaire. Morrison CM, et al. **J Cancer Educ** 1987; 2(4):233–8
Computer on the mountain: technology in remote areas of the developing world. Lee RV. **J Clin Epidemiol** 1990; 43(8):841–3
Drug related hospital admissions: the role of definitions and intensity of data collection, and the possibility of prevention. Hallas J, et al. **J Intern Med** 1990 Aug; 228(2):83–90
A retrospective look at prospective studies [editorial] Laskin DM. **J Oral Maxillofac Surg** 1990 Jun;48(6):553
Data coordination and management in the Growth Failure in Children with Renal Diseases Study. Boyle RM, et al. **J Pediatr** 1990 Feb;116(2):S28–31
Analysis of language-speech samples with salt and pepper. Weston AD, et al. **J Speech Hear Res** 1989 Dec; 32(4):755–66
Underreporting of AIDS cases in South Carolina, 1986 and 1987 [see comments] Conway GA, et al. **JAMA** 1989 Nov 24;262(20):2859–63 Comment in: JAMA 1990 May 9;263(18):2449–50.
The use of poison gas against the Iraqi Kurds: analysis of bomb fragments, soil, and wool samples [letter; comment] Hay A, et al. **JAMA** 1990 Feb 23;263(8):1065–6 Comment on: JAMA 1989 Aug 4;262(5):640–3.
Utilization review: data paradigms. Baker WT. **MD Comput** 1990 May–Jun;7(3):132–3
The observation of educational events. Fleming WG. **Med Educ** 1990 Mar;24(2):190–203
Indicators of impact of services on persons with developmental disabilities: issues concerning data-collection mandates in P.L. 100–146. Davidson PW, et al. **Ment Retard** 1989 Oct;27(5):297–304
Tropical epidemiology: a system for continuous demographic monitoring of a study population. Stephens J, et al. **Methods Inf Med** 1989 Jul;28(3):155–9
Re: 'Examination of a Survey Methodology: Dillman's Total Design Method' [letter; comment] Koelbel PW. **Nurs Res** 1989 Sep–Oct;38(5):288 Comment on: Nurs Res 1989 Jan–Feb;38(1):56–8.
Human dietary assessment: methods and issues. Block G. **Prev Med** 1989 Sep;18(5):653–60
Measuring physical activity in midlife women. Wilbur J, et al. **Public Health Nurs** 1989 Sep;6(3):120–8
An assessment of potential injury surveillance data sources in Alaska using an emerging problem: all-terrain vehicle-associated injuries. Smith SM, et al. **Public Health Rep** 1989 Sep–Oct;104(5):493–8
Relative value of incidence and mortality data in cancer research. Boyle P. **Recent Results Cancer Res** 1989; 114:41–63
Recent Cancer Atlas of the Federal Republic of Germany. Wagner G. **Recent Results Cancer Res** 1989;114:103–14
Guidance on the preparation of summaries of data on chemicals in food, consumer products and the environment submitted to DHSS. **Rep Health Soc Subj (Lond)** 1986; 30:1–16
Instrument development: always unfinished [editorial] Williams MA. **Res Nurs Health** 1989 Dec;12(6):iii–iv
The epidemiological transition in an overseas territory: disease mapping in French Polynesia. Vigneron E. **Soc Sci Med** 1989;29(8):913–22
A clinic's perspective on screening, recruitment and data collection. Eaton T, et al. **Stat Med** 1990 Jan–Feb; 9(1–2):137–43; discussion 143–4
Validity of mortality analysis based on retrospective smoking information. Machlin SR, et al. **Stat Med** 1989 Aug; 8(8):997–1009
How much data should we collect in a randomized clinical trial? Verter J. **Stat Med** 1990 Jan–Feb;9(1–2):103–11; discussion 112–3
Identifying maternal mortality through networking: results from coastal Kenya. Boerma JT, et al. **Stud Fam Plann** 1989 Sep–Oct;20(5):245–53
[Experimentation on a mail questionnaire for a case-control study] Ciccone G, et al. **Epidemiol Prev** 1989 Mar; 11(38):47–9 (Eng. Abstr.) (Ita)
[A genetic-demographic approach in anthropological research. VI. The methodological aspects of collecting, storing and analyzing large blocks of genealogical and biodemographic data] Kazachenko BN. **Biol Nauki** 1990; (3):90–9 (Eng. Abstr.) (Rus)
[A method for the polygraphic recording of data under microwave radiation conditions] Galeev AL, et al. **Fiziol Zh SSSR** 1989 Dec;75(12):1794–6 (Rus)
[Epidemiologic information on the improper use of psychoactive substances. Some strategies applied in Argentina] Míguez HA. **Bol Of Sanit Panam** 1989 Dec; 107(6):541–60 (Eng. Abstr.) (Spa)
[Use of activity and morbidity registries in separate formats (letter)] Morera Montes J, et al. **Gac Sanit** 1989 Sep–Oct; 3(14):533–4 (Spa)
[Epidemiologic monitoring and decentralized planification: the use of sentinel sites in Guerrero] Andersson N, et al. **Salud Publica Mex** 1989 Jul–Aug;31(4):493–502 (Eng. Abstr.) (Spa)

STANDARDS

Atrioventricular septal defect correction caveats [letter] Sissman NJ. **Am J Dis Child** 1990 Aug;144(8):849–50
The effects of data entry error: an analysis of partial verification. Mullooly JP. **Comput Biomed Res** 1990 Jun; 23(3):259–67
Addition of an error correction facility to a functioning data management system. Barwick JA, et al. **Controlled Clin Trials** 1990 Jun;11(3):180–6
Quality assurance and monitoring in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Prud'homme GJ, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):84S–94S
Maintenance of a nutrient database for clinical trials. Sievert YA, et al. **Controlled Clin Trials** 1989 Dec;10(4):416–25
Guidelines for reporting morbidity and mortality after cardiac valvular operations [see comments] Clark RE, et al. **Eur J Cardiothorac Surg** 1988;2(5):293–5 Comment in: Eur J Cardiothorac Surg 1989;3(2):186–7.
Criteria for onset critically influence the estimation of familial risk in Alzheimer's disease. Breitner JC, et al. **Genet Epidemiol** 1989;6(6):663–9 (20 ref.)
Availability of schizophrenic patients and their families for genetic linkage studies: findings from the Maryland epidemiology sample. Pulver AE, et al. **Genet Epidemiol** 1989;6(6):671–80
Surveying board and care homes: issues and data collection problems. McCoy JL, et al. **Gerontologist** 1990 Apr; 30(2):147–53
"Push-out" tests [editorial] Black J. **J Biomed Mater Res** 1989 Nov;23(11):1243–5
Interactive microcomputer for acquisition of patient information. Peters RM. **J Clin Monit** 1989 Oct;5(4):266–9
Accuracy of postal questionnaires? [letter; comment] Watson MG. **J Laryngol Otol** 1989 Nov;103(11):1103 Comment on: J Laryngol Otol 1989 Aug;103(8):747–9.
Need for uniformity in collection and reporting of data in cancer clinical trials [editorial] Phelps RM, et al. **J Natl Cancer Inst** 1990 Sep 5;82(17):1377–8
Survey subjects and the quality of health surveys. O'Toole BI. **Med J Aust** 1990 Feb 19;152(4):171–4 (13 ref.)
Occupational risks: a follow-up method based on individual work history records including the environmental aspects of the workplace. Martin JM, et al. **Methods Inf Med** 1989 Jul;28(3):148–54
Self-evaluation of walking-track measurement using a Sciatic Function Index. Brown CJ, et al. **Microsurgery** 1989; 10(3):226–35
Cancer mortality statistics: availability and quality aspects of mortality data worldwide. Hansluwka H. **Recent Results Cancer Res** 1989;114:163–75
International comparability of coding cancer data: present state and possible improvement by ICD-10. Percy C. **Recent Results Cancer Res** 1989;114:240–52
Availability and completeness of cancer registration worldwide. Shanmugaratnam K. **Recent Results Cancer Res** 1989;114:28–33
Quality of life of adults with chronic illness: a psychometric study. Burckhardt CS, et al. **Res Nurs Health** 1989 Dec; 12(6):347–54

DATA DISPLAY

Horizontal text magnification induces illusory increase in vertical size. Nyman G, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):132–3
Definition of terms used to judge the efficacy of diagnostic tests: a graphic approach. Brismar J, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):621–3
Phase plane (volume to volume-time function loop) display of data from radionuclide ventriculography obtained by single cardiac probe system. Ide M, et al. **Ann Nucl Med** 1988 Nov;2(2):95–100
Interpretation of bone scans using a video display. A necessary step toward a filmless nuclear medicine department. Arnstein NB, et al. **Clin Nucl Med** 1990 Jun; 15(6):418–23
Multidimensional interactive display of CT and MRI data. Fishman EK, et al. **Comput Med Imaging Graph** 1990 Jul–Aug;14(4):237–40
Effects of different data base formats on information retrieval. Boehm-Davis DA, et al. **Hum Factors** 1989 Oct; 31(5):579–92
Effect of uncertainty and diagnosticity on classification of multidimensional data with integral and separable displays of system status. Coury BG, et al. **Hum Factors** 1989 Oct; 31(5):551–69
Enhanced detection with bimodal sonar displays. Doll TJ, et al. **Hum Factors** 1989 Oct;31(5):539–50
Visual performance on CRT screens and hard-copy displays. Harpster JL, et al. **Hum Factors** 1989 Jun;31(3):247–57
Neural, optical, and search performance in prolonged viewing of chromatic displays. Lovasik JV, et al. **Hum Factors** 1989 Jun;31(3):273–89
Visual performance and subjective discomfort in prolonged viewing of chromatic displays. Matthews ML, et al. **Hum Factors** 1989 Jun;31(3):259–71
Proximity compatibility and information display: effects of color, space, and object display on information integration. Wickens CD, et al. **Hum Factors** 1990 Feb;32(1):61–77
New electronic displays and their possibilities for radiology. Kazan B. **Invest Radiol** 1989 Oct;24(10):817–9
Digital recording, display, and storage of echocardiograms. Feigenbaum H. **J Am Soc Echocardiogr** 1988 Sep–Oct; 1(5):378–83
An interactive dot matrix system for locating potentially significant features in nucleic acid molecules. Shapiro BA, et al. **J Biomol Struct Dyn** 1987 Apr;4(5):697–706
Use of Chernoff faces to follow trends in laboratory data. Lott JA, et al. **J Clin Lab Anal** 1990;4(1):59–63
Automating the recording and improving the presentation of the anesthesia record. Ream AK. **J Clin Monit** 1989 Oct;5(4):270–83
Three-dimensional display of gated cardiac blood-pool studies. Miller TR, et al. **J Nucl Med** 1989 Dec; 30(12):2036–41
Nonlinear display of NMR T1 and T2 images taking into account precision and visual perception. Moerland MA, et al. **Magn Reson Imaging** 1989 Jul–Aug;7(4):405–10
Use of a touch sensitive screen and computer assisted image analysis for quantitation of developmental changes in pulmonary structure. Deoras KS, et al. **Pediatr Pulmonol** 1990;9(2):109–18
Psychology of computer use: XV. Effects of display format on reading text from a CRT. Ferraro FR. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):895–8
A better way to present posters [letter] Leeson LJ, et al. **Pharm Res** 1990 May;7(5):561
Display of CT studies on a two-screen electronic workstation versus a film panel alternator: sensitivity and efficiency among radiologists. Foley WD, et al. **Radiology** 1990 Mar; 174(3 Pt 1):769–73
Receiver operating characteristic analysis of chest image interpretation with conventional, laser-printed, and high-resolution workstation images. Slasky BS, et al. **Radiology** 1990 Mar;174(3 Pt 1):775–80
Interpretation of pathophysiology by laboratory data (1). Graphic display of data, static pattern. Niwa M, et al. **Tokai J Exp Clin Med** 1989 Apr;14(2):153–65
Interpretation of pathophysiology by laboratory data (2). Graphic display of data, dynamic pattern. Niwa M, et al. **Tokai J Exp Clin Med** 1989 Apr;14(2):167–79
[Development of a surgical data system for automatic physician recording, entering surgical data and performance evaluation] Nowak G, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:207–8 (Ger)
[Microcomputer-assisted data detection and control in obstetrics] Hintermüller P, et al. **Gynakol Rundsch** 1989;29 Suppl 2:333–5 (Ger)
[The significance of slow brain potentials for the estimation of activation processes in activities at the video-screen model workplace] Freude G, et al. **Z Gesamte Hyg** 1990 Jul;36(7):365–8 (Eng. Abstr.) (Ger)
[Video-screen work from an occupational medicine viewpoint] Kruschwitz S, et al. **Z Gesamte Hyg** 1990 Jul; 36(7):350–3 (31 ref.) (Eng. Abstr.) (Ger)
[Development of a new quantitative analysis for thallium myocardial SPECT images—quantitative STEREO-VIEW method and evaluation of its clinical usefulness] Matsuda H, et al. **Kaku Igaku** 1989 Jul; 26(7):845–54 (Eng. Abstr.) (Jpn)
[Sequential display of the patterns showing the results of clinical tests] Ito K, et al. **Rinsho Byori** 1988 May;Spec No 77:43–50 (Jpn)
[Quantitative presentation of laboratory data by a common scale] Niwa M, et al. **Rinsho Byori** 1990 Apr;Spec No 84:39–59 (Jpn)
[Analysis of methods of presenting information to the operator in the process of control] Iablonko IuP, et al.

Kosm Biol Aviakosm Med 1989 Aug-Sep;23(4):83-5 **(Rus)**

DATA INTERPRETATION, STATISTICAL

Exact random-walk models in crystallographic statistics. V. Non-symmetrically bounded distributions of structure-factor magnitudes. Shmueli U, et al. **Acta Crystallogr A** 1990 Apr 1;46 (Pt 4):241-6

Some pitfalls in data analysis. Jorm AF. **Adv Neurol** 1990; 51:35-9

Significant difference and discrimination [letter] Meyer A. **AJR Am J Roentgenol** 1990 Jul;155(1):193

Misleading subgroup analyses in GISSI [letter] Peto R. **Am J Cardiol** 1990 Sep 15;66(7):771-2

A monitoring system to detect increased rates of cancer incidence. Sitter RR, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S123-30

Monitoring for clusters of disease: application to leukemia incidence in upstate New York. Turnbull BW, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S136-43

Proper interpretation of meta-analysis in occupational epidemiological studies: a response. Wong O, et al. **Am J Ind Med** 1990;17(2):273-6

Misclassification in epidemiologic studies of adverse drug reactions using large managerial data bases. Graham DJ, et al. **Am J Prev Med** 1988;4(2 Suppl):15-24

65 mph speed limit on rural interstates [letter; comment] Baxter JJ. **Am J Public Health** 1990 Apr;80(4):501-2 Comment on: Am J Public Health 1989 Oct;79(10):1392-5.

Early pregnancy loss, premature and low birth weight delivery and increased maternal lymphocyte cytotoxicity [letter] Hoff C. **Am J Reprod Immunol** 1990 Mar-Apr; 22(3-4):134

Introduction to biostatistics: Part 1, Basic concepts. Gaddis ML, et al. **Ann Emerg Med** 1990 Jan;19(1):86-9

Effect of crossover on the statistical power of randomized studies [see comments] Weinstein GS, et al. **Ann Thorac Surg** 1989 Oct;48(4):490-5 Comment in: Ann Thorac Surg 1989 Oct;48(4):465-6.

Refining an emergent life-style-change theory through matrix analysis. Marsh GW. **ANS** 1990 Apr;12(3):41-52

Statistical power and polyvalent immunoglobulin [letter] Whittle J. **Arch Intern Med** 1990 Aug;150(8):1760

A perspective on Wright and Linacre [letter; comment] Johnston MV, et al. **Arch Phys Med Rehabil** 1990 May; 71(6):439-40 Comment on: Arch Phys Med Rehabil 1989 Nov;70(12):857-60.

The stochastic regression analysis as a tool in ecotoxicological QSAR studies. Devillers J, et al. **Biomed Environ Sci** 1989 Dec;2(4):385-93

Monitoring accumulating data in a clinical trial. Berry DA. **Biometrics** 1989 Dec;45(4):1197-211

Protecting against nonrandomly missing data in longitudinal studies. Brown CH. **Biometrics** 1990 Mar;46(1):143-55

Point perturbation analysis of experimental data. Di Cera E, et al. **Biophys Chem** 1989 Nov;34(3):239-58

Sample size and power for comparing two or more treatment groups in clinical trials [published erratum appears in BMJ 1989 Oct 21;299(6706):1018] Day SJ, et al. **BMJ** 1989 Sep 9;299(6700):663-5

Analysis of serial measurements in medical research [see comments] Matthews JN, et al. **BMJ** 1990 Jan 27; 300(6719):230-5 Comment in: BMJ 1990 Mar 10;300(6725):680.

Statistical procedure for the preoperative prediction of the result of cochlear implantation. Fritze W, et al. **Br J Audiol** 1989 Nov;23(4):293-7

Confidence intervals: from statistical significance to clinical significance [editorial] Morgan PP. **Can Med Assoc J** 1989 Nov 1;141(9):881-3

Type 3 and type 4 errors in the statistical evaluation of clinical trials. Robin ED, et al. **Chest** 1990 Aug;98(2):463-5

Relative values for physiological quantities in disease and special conditions [letter] Van Kooten WJ. **Clin Chim Acta** 1989 Sep 29;184(2):193-4

A carry-over study in three different instruments for the determination of serum glucose: the importance of Student's t test [letter] Yücel D, et al. **Clin Chim Acta** 1990 Mar 15;187(3):333-4

BASIC program for non-parametric fitting of user-defined functions to experimental data with plotting of results. Caraon SD. **Comput Methods Programs Biomed** 1989 Aug; 29(4):229-34

QUAD: a computer package for the analysis of QUantal Assay Data. Morgan BJ, et al. **Comput Methods Programs Biomed** 1989 Dec;30(4):265-78

Computerized analysis of ionic channel multi-state conductance in planar lipid bilayers. Rauch G, et al. **Comput Methods Programs Biomed** 1989 Dec;30(4):297-303

CURT: a randomization test for statistical comparison between experimental curves. Rocchetti M, et al. **Comput Methods Programs Biomed** 1990 Mar-Apr; 31(3-4):207-13

Computer acquisition and analysis of skin temperature and heat flow data from heat flux transducers. Vallerand AL, et al. **Comput Methods Programs Biomed** 1989 Dec; 30(4):279-82

Non-linear statistical technique applied to data from baboon articular cartilage. Warskyj M, et al. **Comput Methods Programs Biomed** 1990 Jun;32(2):107-14

Considerations for the meta-analysis of randomized clinical trials. Summary of a panel discussion. Boissel JP, et al. **Controlled Clin Trials** 1989 Sep;10(3):254-81

Unpublished Data Summaries and the design and conduct of clinical trials. The Nutrition Adjuvant Study experience and commentary. Chlebowski RT, et al. **Controlled Clin Trials** 1989 Dec;10(4):368-77

Use of principal components analysis to develop a composite score as a primary outcome variable in a clinical trial. The VA Cooperative Study Group on Cochlear Implantation. Henderson WG, et al. **Controlled Clin Trials** 1990 Jun; 11(3):199-214

Analysis of clinical trial outcomes: alternative approaches to subgroup analysis. Schneider B. **Controlled Clin Trials** 1989 Dec;10(4 Suppl):176S-186S

Analysis of overall pathophysiological relationships between serum levels of TSH and thyroid hormones using a large laboratory database. Ichihara K, et al. **Endocrinol Jpn** 1989 Jun;36(3):373-80

Dual controls, p-value plots, and the multiple testing issue in carcinogenicity studies. Selwyn MR. **Environ Health Perspect** 1989 Jul;82:337-44

Analysis and presentation of intracellular measurements obtained with ion-selective microelectrodes. Fry CH, et al. **Exp Physiol** 1990 Mar;75(2):187-98

Branched-chain amino acids in hepatic encephalopathy [letter; comment] Koretz RL. **Gastroenterology** 1990 Jul; 99(1):287-8 Comment on: Gastroenterology 1989 Oct;97(4):1033-42.

Regulation of total leukocyte, neutrophil and lymphocyte concentrations in human blood by major effectors. Stolc V, et al. **Hum Hered** 1989;39(4):240-7

On using microcomputers in statistical analysis. Lachenbruch PA. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):422-6

Blood pressure by age in childhood and adolescence: a review of 129 surveys worldwide. Brotons C, et al. **Int J Epidemiol** 1989 Dec;18(4):824-9 (49 ref.)

Nonparametric estimation of degenerate ROC data sets used for comparison of imaging systems. Rockette HE, et al. **Invest Radiol** 1990 Jul;25(7):835-7

The automated analysis of rat sperm motility following subchronic epichlorohydrin administration: methodologic and statistical considerations. Toth GP, et al. **J Androl** 1989 Sep-Oct;10(5):401-15

The importance of the geometric mean MIC [letter] Davies BI. **J Antimicrob Chemother** 1990 Mar;25(3):471-2

Empirical considerations in orthopaedic research design and data analysis. Part II: The application of data analytic techniques. Niemcryk SJ, et al. **J Arthroplasty** 1990 Jun; 5(2):105-10

Interpretation of bone densitometry measurements: disadvantages of a percentage scale and a discussion of some alternatives. Parfitt AM. **J Bone Miner Res** 1990 Jun; 5(6):537-40 (39 ref.)

Performance profiles: new tools for characterization and comparison of clinical chemical results. Keller H, et al. **J Clin Chem Clin Biochem** 1989 Sep;27(9):613-29

The unit fragility index: an additional appraisal of "statistical significance" for a contrast of two proportions. Feinstein AR. **J Clin Epidemiol** 1990;43(2):201-9

Para-analysis, faute de mieux, and the perils of riding on a data barge. Feinstein AR. **J Clin Epidemiol** 1989; 42(10):929-35

"Size" and "shape" variables in the presence of covariates: an application to the sudden infant death syndrome. Fujisaki JM, et al. **J Clin Epidemiol** 1990;43(2):173-80

Issues in the use of change scores in randomized trials. Norman GR. **J Clin Epidemiol** 1989;42(11):1097-105

Concepts determining statistical analysis of dental data. McDonald BW, et al. **J Clin Periodontol** 1990 Mar; 17(3):153-8 (32 ref.)

Statistical models for data from periodontal research. Sterne JA, et al. **J Clin Periodontol** 1990 Mar;17(3):129-37 (58 ref.)

Clinical significance--chicken or egg? Po AL, et al. **J Clin Pharm Ther** 1989 Dec;14(6):411-3 (24 ref.)

Nonparametric comparison of entire ROC curves for computerized ECG left ventricular hypertrophy algorithms using data from the Framingham Heart Study. Campbell G, et al. **J Electrocardiol** 1989;22 Suppl:152-7

Ventricular fibrillation detection by autocorrelation function peak analysis. Guillén SG, et al. **J Electrocardiol** 1989;22 Suppl:253-62

Progress on the CSE diagnostic study. Application of McNemar's test revisited. Willems JL, et al. **J Electrocardiol** 1989;22 Suppl:135-40

Power analysis and clinical significance [letter] Corey GA. **J Fam Pract** 1990 Aug;31(2):122, 212

Significance of multiple inferential tests [letter] [published erratum appears in J Fam Pract 1990 Mar;30(3):360] [comment] Replogle WH, et al. **J Fam Pract** 1990 Jan; 30(1):15-6 Comment on: J Fam Pract 1987 Dec;25(6):579-84.

Statistical approaches to nonstationary EEGs for the detection of slow vertex responses. Fujikake M, et al. **J Med Syst** 1989 Jun;13(3):111-29

Fundamentals of obstetric, gynecologic, and neonatal nursing research: Part III. Beck CT. **J Obstet Gynecol Neonatal Nurs** 1989 Sep-Oct;18(5):385-9

Quality of research [letter] Grace JT. **J Obstet Gynecol Neonatal Nurs** 1990 Jul-Aug;19(4):283-4

Application of NONMEM to routine bioavailability data. Graves DA, et al. **J Pharmacokinet Biopharm** 1990 Apr; 18(2):145-60

Evaluation of population (NONMEM) pharmacokinetic parameter estimates. Vozeh S, et al. **J Pharmacokinet Biopharm** 1990 Apr;18(2):161-73

Basic statistics in medical practice. Alam SE. **JPMA** 1990 May;40(5):119-20

Distributed computer system for capture, analysis and display of biological data. Marlow SP, et al. **Med Biol Eng Comput** 1989 Jul;27(4):371-8

A simple on-line information system for quality assessment. Janssen CW Jr, et al. **Med Care** 1990 Jul;28(7):567-72

Technical efficiency in nursing homes. Nyman JA, et al. **Med Care** 1990 Jun;28(6):541-51

Evaluating managerial efficiency of Veterans Administration medical centers using Data Envelopment Analysis. Sexton TR, et al. **Med Care** 1989 Dec;27(12):1175-88

Left-right spatial agnosia and other mental defects that characterize clinical researchers. Allen AD. **Med Hypotheses** 1990 Feb;31(2):115-20

Fitting and interpreting loglinear interactions in cross-classifications from health policy and medicine. Brown ML. **Methods Inf Med** 1990 Mar;29(2):104-12

A statistical analysis of the third UKEMS collaborative trial. Green MH, et al. **Mutagenesis** 1990;5 Suppl:71-84

Pooled inference across sexes for the in vivo micronucleus assay. Tamura RN, et al. **Mutat Res** 1990 Feb;240(2):127-33

Secondary data analysis: a valuable resource. Gleit C, et al. **Nurs Res** 1989 Nov-Dec;38(6):380-1

Treating ordinal scales as interval scales: an attempt to resolve the controversy. Knapp TR. **Nurs Res** 1990 Mar-Apr;39(2):121-3

Transferring data files between microcomputer statistical packages. Turley JP. **Nurs Res** 1989 Sep-Oct;38(5):315-7

Increasing the precision of data analysis: planned comparisons versus omnibus tests. Wu YW, et al. **Nurs Res** 1990 Jul-Aug;39(4):251-3

Interim analyses in clinical trials. Emerson SS, et al. **Oncology (Williston Park)** 1990 Mar;4(3):126-33; discussion 134, 136

Common methods of analyzing response data in clinical trials. Harrington DP, et al. **Oncology (Williston Park)** 1990 Jan; 4(1):95-106; discussion 106, 111, 113 (25 ref.)

"Outlier" intraocular pressure readings: valid or invalid for statistical analysis? Dandona L, et al. **Opithalmic Surg** 1989 Oct;20(10):737-43; discussion 744

Statistics notebook: population vs. sample. De Land PN, et al. **Optom Vis Sci** 1989 Oct;66(10):715-6

Common statistical errors in morphometry. James NT. **Pathol Res Pract** 1989 Nov;185(5):764-8

Signal detection analysis of ethanol effects on a complex conditional discrimination. Melia KF, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):581-4

Behavioral teratogenic insult of methylmercury assessed by using sets of measures: reanalysis of data from the Collaborative Behavioral Teratology Study of National Center for Toxicological Research. Tachibana T. **Physiol Behav** 1989 Jun;45(6):1243-7

DNA hybridization as a guide to phylogenies: raw data in muroid rodents. Catzeflis FM. **Prog Clin Biol Res** 1990; 335:317-45

A new statistical test for summarizing the results of independent epidemiologic studies. Gaffey WR. **Public Health Rev** 1988;16(3-4):153-62

A Bayesian strategy for interpreting pooled data from epidemiological studies. Goldsmith JR, et al. **Public Health Rev** 1988;16(3-4):189-205

Application of pooling strategies to occupational cancer and occupational mortality studies. Goldsmith JR. **Public Health Rev** 1988;16(3-4):207-13

On pooled and stratified analysis of epidemiologic rates. Nurminen M. **Public Health Rev** 1988;16(3-4):163-87

Microdosimetric measurements and the variance-covariance method. Some experimental experience. Lindborg L, et al. **Radiat Environ Biophys** 1989;28(4):251-63

Demystifying research--analysing the data. Benwell M. **Radiogr Today** 1990 Feb;56(633):16-7

Methods for assessing treatment efficacy in trials for adjuvant therapy for breast cancer. Gelber RD, et al. **Recent Results Cancer Res** 1989;115:211-9

Cancer mortality statistics: availability and quality aspects of mortality data worldwide. Hansluwka H. **Recent Results Cancer Res** 1989;114:163-75

Scottish Cancer Incidence Atlas 1985. Kemp I. **Recent Results Cancer Res** 1989;114:137-42

Cancer mapping: overview and conclusions. Muir CS. **Recent Results Cancer Res** 1989;114:269-73

Cancer maps of Finland: an example of small area-based mapping. Pukkala E. **Recent Results Cancer Res** 1989; 114:208-15

Analysis of spatial aggregation. Smans M. **Recent Results Cancer Res** 1989;114:83-6

Recent Cancer Atlas of the Federal Republic of Germany. Wagner G. **Recent Results Cancer Res** 1989;114:103-14

Methods of age adjustment. Wahrendorf J. **Recent Results Cancer Res** 1989;114:64-9 (4 ref.)

Analysis of change over time. Andersen PK. **Rev Epidemiol Sante Publique** 1989;37(5-6):507-14

Longitudinal studies: design and analysis. Chinn S. **Rev Epidemiol Sante Publique** 1989;37(5-6):431-41

Statistical significance versus clinical relevance. Part II. The use and interpretation of confidence intervals. Luus HG,

et al. **S Afr Med J** 1989 Dec 2;76(11):626–9
Statistical significance versus clinical relevance. Part I. The essential role of the power of a statistical test. Luus HG, et al. **S Afr Med J** 1989 Nov 18;76(10):568–70
Informational indices. Validation of criteria and tests. Lequesne M. **Scand J Rheumatol Suppl** 1989;80:17–28
A linear regression model for the analysis of life times. Aalen OO. **Stat Med** 1989 Aug;8(8):907–25
On alleged gains in power from lower P-values. Barnard GA. **Stat Med** 1989 Dec;8(12):1469–77
Using association models to analyse agreement data: two examples. Becker MP. **Stat Med** 1989 Oct;8(10):1199–207
A review of methods for misclassified categorical data in epidemiology. Chen TT. **Stat Med** 1989 Sep;8(9):1095–106; discussion 1107–8 (36 ref.)
Statistical comparisons of ligand–binding kinetics [letter; comment] Dunn G. **Stat Med** 1990 Mar;9(3):341–2 Comment on: Stat Med 1989 Jul;8(7):871–81.
Receiver operator characteristic (ROC) curves and non–normal data: an empirical study. Goddard MJ, et al. **Stat Med** 1990 Mar;9(3):325–37
Bias in the one–step method for pooling study results. Greenland S, et al. **Stat Med** 1990 Mar;9(3):247–52
Correcting reported AIDS incidence: a statistical approach. Heisterkamp SH, et al. **Stat Med** 1989 Aug;8(8):963–76
Adjusting for baseline: change or percentage change? Kaiser L. **Stat Med** 1989 Oct;8(10):1183–90
Efficiency gains from the addition of controls to matched sets in cohort studies. Raboud J, et al. **Stat Med** 1989 Aug; 8(8):977–85
Identifying important results from multiple statistical tests [letter; comment] Royston P. **Stat Med** 1989 Oct; 8(10):1304–5 Comment on: Stat Med 1988 Oct;7(10):1031–43.
Hypothesis versus significance testing for controlled clinical trials: a dialogue. Salsburg D. **Stat Med** 1990 Mar; 9(3):201–11; discussion 213–4
Disease entities, mixed multi–normal distributions, and the role of the hyperkinetic state in the pathogenesis of hypertension. Schork NJ, et al. **Stat Med** 1990 Mar; 9(3):301–14
Incorporating historical control data in planning phase II clinical trials. Thall PF, et al. **Stat Med** 1990 Mar; 9(3):215–28
Testing for central mixtures of compartment model parameters. Zelterman D. **Stat Med** 1989 Aug;8(8):1011–21
Comments on: "Behavioral teratogenic effect of methylmercury and d–amphetamine: meta–analysis and power analysis of data from the Collaborative Behavioral Teratology Study of National Center for Toxicological Research" [letter; comment] **Teratology** 1990 Jun; 41(6):743–55 Comment on: Teratology 1989 Aug;40(2):93–100.
Time–series analysis. Use of autocorrelation as an analytic strategy for describing pattern and change. Taylor D. **West J Nurs Res** 1990 Apr;12(2):254–61
[Fundamentals in statistics. VIII. Testing for correlation] Rümke CL. **Ned Tijdschr Geneeskd** 1989 Sep 9; 133(36):1773–6 **(Dut)**
[Basic concepts in statistics. IX. Standardization] Rümke CL, et al. **Ned Tijdschr Geneeskd** 1990 Mar 24;134(12):586–91 **(Dut)**
[Prevalence and risk factors of Chlamydia trachomatis infections in clients of a venereal disease outpatient clinic in Amsterdam (letter)] van Zuiden M. **Ned Tijdschr Geneeskd** 1990 Feb 3;134(5):249 **(Dut)**
[A general solution to the linkage of anonymous medical data] Thélot B. **C R Acad Sci [III]** 1990;310(8):333–8 (Eng. Abstr.) **(Fre)**
[Assurance, certainty and statistics] Durrleman S. **Gastroenterol Clin Biol** 1990;14(6–7):599 **(Fre)**
[Modesty, uncertainty and pragmatism] Poynard T. **Gastroenterol Clin Biol** 1990;14(6–7):600 **(Fre)**
[Epidemiological value of graphic representation of the Tukey test] Moulia–Pelat JP, et al. **Med Trop (Mars)** 1989 Jul–Sep;49(3):285–8 (Eng. Abstr.) **(Fre)**
[Certain methodological problems concerning the study of occupational morbidity and morbidity related to work] Tsatcheva N. **Sante Publique (Bucur)** 1989 Oct–Dec; 32(4):341–5 (Eng. Abstr.) **(Fre)**
[Mortality analysis: when is single evaluation of the basic cause of death allowable, when should multi–causality be assessed?] Beer V, et al. **Soz Praventivmed** 1990;35(1):17–23 (Eng. Abstr.) **(Ger)**
[Methodological premises of statistical analysis of the data] Bamfi F, et al. **Clin Ter** 1990 Mar 31;132(6 Suppl):475–8 (Eng. Abstr.) **(Ita)**
[Application of the box plot to evaluate serum lipid levels and apolipoprotein levels in patients with cerebral infarction and diabetes mellitus] Konemori G, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):22–7 (Eng. Abstr.) **(Jpn)**
[A system for physiopathologic study of the results of blood gas analysis using a vector display] Inoue Y, et al. **Rinsho Byori** 1988 May;Spec No 77:64–73 **(Jpn)**
[Monitoring of patients laboratory data] Kanno T. **Rinsho Byori** 1990 Jan;Spec No 83:84–91 **(Jpn)**
[Knowledge production of clinical diagnosis from blood analysis data] Matsuda N. **Rinsho Byori** 1990 Jan;Spec No 83:159–69 **(Jpn)**
[A concept of normal range: what should we do to get clinically useful normal range?] Usui T. **Rinsho Byori** 1990 Apr;Spec No 84:31–8 **(Jpn)**
[Regression and correlation] Johnsen HM. **Nord Med** 1990; 105(4):121–3 (Eng. Abstr.) **(Nor)**

DATA POOLING see **META–ANALYSIS**

DATA PROCESSING, AUTOMATIC see **AUTOMATIC DATA PROCESSING**

DATA SYSTEMS see **INFORMATION SYSTEMS**

DATABASE MANAGEMENT SYSTEMS see under **SOFTWARE**

DATABASES see **INFORMATION SYSTEMS**

DATAPHONE see under **TELEPHONE**

DATURA see **STRAMONIUM**

DAUNOMYCIN see **DAUNORUBICIN**

DAUNORUBICIN

Structural comparison of anticancer drug–DNA complexes: adriamycin and daunomycin. Frederick CA, et al. **Biochemistry** 1990 Mar 13;29(10):2538–49
A theoretical investigation on the sequence selective binding of daunomycin to double–stranded polynucleotides. Chen KX, et al. **J Biomol Struct Dyn** 1985 Dec;3(3):445–66
Structure of nogalamycin bound to a DNA hexamer. Williams LD, et al. **Proc Natl Acad Sci U S A** 1990 Mar; 87(6):2225–9
[A model of daunorubicin–induced nephrotic syndrome in the rat] Jiang XY. **Chung Hua I Hsueh Tsa Chih** 1989 May; 69(5):288–90 **(Chi)**

ADMINISTRATION & DOSAGE

Erythrocyte membrane–bound daunorubicin as a delivery system in anticancer treatment. Gaudreault RC, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1201–5
Coupling a preactivated daunorubicin derivative to antibody. A new approach. Pagé M, et al. **Anticancer Res** 1990 Mar–Apr;10(2A):353–7
Anthracycline antibiotics with high liposome entrapment: structural features and biological activity. Perez–Soler R, et al. **Cancer Res** 1990 Jul 15;50(14):4260–6
Continuous intravenous administration of daunorubicin and cytarabine for remission induction of poor risk acute myelogenous leukaemias and myelodysplastic syndromes. Bär BM, et al. **Neth J Med** 1990 Feb;36(1–2):19–24
[Daunomycin in vitrectomy of complicated diabetic retinal detachment] Hermeking H, et al. **Fortschr Ophthalmol** 1990; 87(3):287–9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Doxorubicin hypersensitivity and clindamycin [letter] Arena FP, et al. **Ann Intern Med** 1990 Jan 15;112(2):150
Effects of verapamil on anthracycline–induced cardiomyopathy: preliminary results of a prospective multicenter trial. Kraft J, et al. **Hamatol Bluttransfus** 1990; 33:566–70
[Diagnosis and treatment of rubomycin–induced heart lesions in children with leukemia] Alekseev NA, et al. **Gematol Transfuziol** 1989 Sep;34(9):37–40 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

Evaluation of menogaril in patients with metastatic sarcomas and no prior chemotherapy exposure. Buckner JC, et al. **Am J Clin Oncol** 1989 Oct;12(5):384–6
Phase I study of weekly intravenous administration of menogaril to adults with solid tumors. Stewart DJ, et al. **Am J Clin Oncol** 1989 Dec;12(6):511–8
Effect of MX2, a new morpholino anthracycline, against experimental brain tumors. Izumoto S, et al. **Anticancer Res** 1990 May–Jun;10(3):735–9
Tumor reactive cis–aconitylated monoclonal antibodies coupled to daunorubicin through a peptide spacer are unable to kill tumor cells. Law KL, et al. **Anticancer Res** 1990 May–Jun;10(3):845–52
Conformation and dynamics of the deoxyribose rings of a (nogalamycin)2–d (5'–GCATGC)2 complex studied in solution by 1H–n.m.r. spectroscopy. Searle MS, et al. **Biochem J** 1990 Jul 15;269(2):341–6
Antitumor drug nogalamycin binds DNA in both grooves simultaneously: molecular structure of nogalamycin–DNA complex. Liaw YC, et al. **Biochemistry** 1989 Dec 26; 28(26):9913–8
DNA topoisomerase II–mediated interaction of doxorubicin and daunorubicin congeners with DNA. Bodley A, et al. **Cancer Res** 1989 Nov 1;49(21):5969–78
3'–Deamino–3'–morpholino–13–deoxo–10–hydroxycarminomycin conquers multidrug resistance by rapid influx following higher frequency of formation of DNA single– and double–strand breaks. Horichi N, et al. **Cancer Res** 1990 Aug 1;50(15):4698–701
Anthracycline antibiotics with high liposome entrapment: structural features and biological activity. Perez–Soler R, et al. **Cancer Res** 1990 Jul 15;50(14):4260–6
Formation of DNA–adducts and induction of DNA–crosslinks and chromosomal aberrations by the new potent anthracycline antitumor antibiotics: morpholinodaunomycin, cyanomorpholinodaunomycin and cyanomorpholinoadriamycin. Westendorf J, et al. **Cell Biol Toxicol** 1985 Jan;1(2):87–101
Role of oxygen free radical formation in the mechanism of menogaril resistance in multidrug resistant tumor cells. Sinha BK, et al. **Chem Biol Interact** 1990;76(1):89–99
Synthetic anthracyclines: regiospecific total synthesis of a D–ring indole analogue of daunomycin. Kita Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Mar;38(3):585–9
Effect of carminomycin on the viability of fibroblasts from patients with regular trisomy 21. Rózga B, et al. **Free Radic Res Commun** 1990;8(2):79–83
Evaluation of menogaril in renal cell carcinoma. A Southwest Oncology Group phase II study (8504). Stephens RL, et al. **Invest New Drugs** 1990;8 Suppl 1:S69–71
Phase I study of oral menogaril administered on a once weekly schedule. Stewart DJ, et al. **Invest New Drugs** 1990 Feb;8(1):43–52
Role of DNA–binding in the cytotoxicity of an anthracycline, R20X2 and its morpholino analog, MX2. Komeshima N, et al. **J Antibiot (Tokyo)** 1989 Sep;42(9):1424–9
Microbial conversion of anthracyclinones to carminomycins by a blocked mutant of Actinomadura roseoviolacea. Nakagawa M, et al. **J Antibiot (Tokyo)** 1989 Nov; 42(11):1698–703
Synthesis and biological activity of the two isomeric 2'–C–methyl daunomycins. Rocherolle V, et al. **J Antibiot (Tokyo)** 1989 Sep;42(9):1393–7
Improved high–performance liquid chromatographic method using loop–column extraction for analysis of idarubicin and idarubicinol in plasma. de Graaf SS, et al. **J Chromatogr** 1989 Jul 21;491(2):501–6
Low–dose cytarabine versus intensive chemotherapy in the treatment of acute nonlymphocytic leukemia in the elderly. Tilly H, et al. **J Clin Oncol** 1990 Feb;8(2):272–9
Antitumor activity and pharmacokinetics of a morpholino–anthracycline derivative (KRN8602) against human breast carcinoma xenografts serially transplanted into nude mice. Kubota T, et al. **Jpn J Cancer Res** 1990 Aug;81(8):827–33
Menogaril, an anthracycline compound with a novel mechanism of action: cellular pharmacology. Wierzba K, et al. **Jpn J Cancer Res** 1990 Aug;81(8):842–9
NMR studies on the binding of antitumor drug nogalamycin to DNA hexamer d(CGTACG). Robinson H, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4851–8
[Phase I clinical study of MX2 (KRN 8602)] Majima H. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):359–64 (Eng. Abstr.) **(Jpn)**
[Antitumor spectrum of TUT–7 on rat ascitic hepatoma] Satoh H, et al. **Gan To Kagaku Ryoho** 1990 Feb; 17(2):287–91 (Eng. Abstr.) **(Jpn)**
[Antitumor activities of orally administered 7–con–0–methylnogarol (TUT–7)] Sugimoto Y, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):353–8 (Eng. Abstr.) **(Jpn)**
[Thiol–dependent protective systems in alimentary prevention of the toxic effect of carminomycin] Lenskaia EG, et al. **Antibiot Khimioter** 1990 Apr;35(4):36–9 (Eng. Abstr.) **(Rus)**
[Effects of daunorubicin and its nitroxyl analog on the synthesis of nucleic acids] Rogova OM, et al. **Antibiot Khimioter** 1990 May;35(5):27–30 (Eng. Abstr.) **(Rus)**
[Study of toxicity and antineoplastic activity of 14–substituted derivatives of rubomycin and carminomycin] Ul'ianova LA, et al. **Antibiot Khimioter** 1990 Feb;35(2):24–6 (Eng. Abstr.) **(Rus)**
[Derivatives of daunorubicin containing an inosine fragment] Olsuf'eva EN, et al. **Bioorg Khim** 1989 Nov;15(11):1569–72 (Eng. Abstr.) **(Rus)**
[The use of magnetically controlled microcapsules in the combined (chemothermomagnetic) therapy of experimental tumors] Volkonskii VA, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):295–6 **(Rus)**
[Use of cytostatics in polymer–drug complexes in the treatment of malignant neoplasms of the maxilla] Rusakov IG, et al. **Sov Med** 1990;(1):23–4 (Eng. Abstr.) **(Rus)**
[The influence on tumor growth and the function of the thiol–dependent systems of the liver of excess cooking fat and vitamin E in the diet. The effects of carminomycin] Tazhibaev ShS, et al. **Vopr Pitan** 1990 May–Jun;(3):47–51 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Streptomycetes producing daunomycin and related compounds: do we know enough about them after 25 years? Huk J, et al. **Folia Microbiol (Praha)** 1989;34(4):324–49 (126 ref.)
Cloning and expression of daunorubicin biosynthesis genes from Streptomyces peucetius and S. peucetius subsp. caesius. Otten SL, et al. **J Bacteriol** 1990 Jun;172(6):3427–34

CHEMICAL SYNTHESIS

[Production and antineoplastic activity of new asymmetric azines on the rubomycin base] Tarasova VE, et al. **Antibiot Khimioter** 1990 Apr;35(4):21–4 (Eng. Abstr.) **(Rus)**
[Derivatives of antineoplastic antibiotics of the daunorubicin

series containing methylurea or nitrosomethylurea residues] Povarov LS, et al. **Bioorg Khim** 1990 Apr;16(4):559–68 (Eng. Abstr.) **(Rus)**

METABOLISM

Generation of daunomycin radicals on the outer side of the erythrocyte membrane. Pedersen JZ, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):240–7

Comparison of intracellular drug retention, DNA damage and cytotoxicity of derivatives of doxorubicin and daunorubicin in a human colon adenocarcinoma cell line (LoVo). Belvedere G, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3713–21

Intramolecular electron transfer in proteins. Radiolysis study of the reductive activation of daunorubicin complexed in egg white apo-riboflavin binding protein. Houée-Levin C, et al. **Biochemistry** 1989 Dec 12;28(25):9848–54

Biophysical chemistry of the daunomycin–DNA interaction. Chaires JB. **Biophys Chem** 1990 Apr;35(2–3):191–202 (57 ref.)

Exploring multidrug resistance using rhodamine 123. Kessel D. **Cancer Commun** 1989;1(3):145–9

Elevated pentose cycle and glucuronyltransferase in daunorubicin-resistant P388 cells. Gessner T, et al. **Cancer Res** 1990 Jul 1;50(13):3921–7

Flow cytometric characterization of antifolate resistance in cultured mammalian cells using fluoresceinated methotrexate and daunorubicin. Sherwood SW, et al. **Cancer Res** 1990 Aug 15;50(16):4946–50

Binding of daunomycin to acidic phospholipids. Schreier H. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):213–9

[Anthracycline resistance: cytofluorometric study on infantile lymphoblastic leukemia] Limonta M, et al. **Medicina (Firenze)** 1989 Oct–Dec;9(4):406–8 (Eng. Abstr.) **(Ita)**

PHARMACOKINETICS

Fast kinetic analysis of drug transport in multidrug resistant cells using a pulsed quench-flow apparatus. Cano-Gauci DF, et al. **Biochem Biophys Res Commun** 1990 Feb 28; 167(1):48–53

Transport of the multidrug resistance modulators verapamil and azidopine in wild type and daunorubicin resistant Ehrlich ascites tumour cells. Sehested M, et al. **Br J Cancer** 1990 Jul;62(1):37–41

Cellular pharmacokinetics of daunomycin in human leukemic blasts in vitro and in vivo. Scheulen ME, et al. **Hamatol Bluttransfus** 1990;33:122–8

Overexpression of the mdr1 gene in blast cells from patients with acute myelocytic leukemia is associated with decreased anthracycline accumulation that can be restored by cyclosporin-A. Nooter K, et al. **Int J Cancer** 1990 Feb 15;45(2):263–8

Effects of cyclosporin A and verapamil on the intracellular daunorubicin accumulation in Chinese hamster ovary cells with increasing levels of drug-resistance. Silbermann MH, et al. **Int J Cancer** 1989 Oct 15;44(4):722–6

[The uptake of daunorubicin, adriamycin and aclarubicin into leukemic cells measured by flow cytometry] Arai N, et al. **Gan To Kagaku Ryoho** 1990 May;17(5):1077–9 **(Jpn)**

PHARMACOLOGY

Daunorubicin coupled to monoclonal antibodies via a cis-aconitic anhydride linker: biochemical and cytotoxic properties revisited. Ahmad A, et al. **Anticancer Res** 1990 May–Jun;10(3):837–43

Tumor reactive cis-aconitylated monoclonal antibodies coupled to daunorubicin through a peptide spacer are unable to kill tumor cells. Law KL, et al. **Anticancer Res** 1990 May–Jun;10(3):845–52

The effect of daunomycin on platelets in vitro. Whaun JM, et al. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug; 300:292–304

Enzymatic studies of the effect of Cu (II) on oxygen radical production stimulated by daunorubicin and ametantrone. Tarasiuk J, et al. **Biochem Pharmacol** 1990 May 1; 39(9):1405–10

Differential cytotoxicity of combretastatins A1 and A4 in two daunorubicin-resistant P388 cell lines. McGown AT, et al. **Cancer Chemother Pharmacol** 1990;26(1):79–81

Modulation of drug resistance in a daunorubicin resistant subline with oligonucleoside methylphosphonates [published erratum appears in Cancer Commun 1990;2(8):295] Vasanthakumar G, et al. **Cancer Commun** 1989;1(4):225–32

DNA topoisomerase II-mediated interaction of doxorubicin and daunorubicin congeners with DNA. Bodley A, et al. **Cancer Res** 1989 Nov 1;49(21):5969–78

Application of target-specific drug immunoconjugates to experimental bone marrow replacement therapy in mice. Ding L, et al. **Cancer Res** 1990 Mar 1;50(5):1538–43

Extensive interference of DNA packaging processes affected by chemotherapeutic drugs. Reich Z, et al. **J Biol Chem** 1990 Sep 15;265(26):16004–6

Effect of idarubicin and epirubicin on in vitro polymorphonuclear function: diminished superoxide radical formation compared to their parent compounds daunorubicin and doxorubicin. Cairo MS, et al. **J Leukoc Biol** 1990 Mar;47(3):224–33

Vasocontractile action of dauaorubicin. Wakabayashi I, et al. **J Pharm Pharmacol** 1989 Nov;41(11):801–2

Susceptibility of acute myeloid leukemia (AML) cells from clinically resistant and sensitive patients to daunomycin (DNR): assessment in vitro after stimulation with colony stimulating factors (CSFs). Santini V, et al. **Leuk Res** 1990; 14(4):377–80

[In vitro effect of combinations of daunorubicin and antibiotics against various bacterial strains] Fourche J, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):591–4 (Eng. Abstr.) **(Fre)**

[Cytotoxic effect of anticancer drug combined with anti-AFP antibody on human hepatoma cell in vitro] Kukita K. **Hokkaido Igaku Zasshi** 1990 May;65(3):254–65 (Eng. Abstr.) **(Jpn)**

[Status of the adenine system of the rat liver after administration of anthracycline antibiotics] Ermolitskaia GR, et al. **Antibiot Khimioter** 1989 Nov;34(11):853–5 (Eng. Abstr.) **(Rus)**

[Comparative study of the cytotoxic effects of anthracycline antibiotics on heterotransplants of human breast cancer cultivated in diffusion chambers in vivo] Krutova TV, et al. **Antibiot Khimioter** 1989 Nov;34(11):849–52 (Eng. Abstr.) **(Rus)**

[Effects of daunorubicin and its nitroxyl analog on the synthesis of nucleic acids] Rogova OM, et al. **Antibiot Khimioter** 1990 May;35(5):27–30 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

High-dose chemotherapy and autologous bone marrow transplantation in acute myeloid leukemia. McMillan AK, et al. **Blood** 1990 Aug 1;76(3):480–8

Synergistic potentiation of in vivo antitumor activity of anti-human T-leukemia immunotoxins by recombinant alpha-interferon and daunorubicin. Yokota S, et al. **Cancer Res** 1990 Jan 1;50(1):32–7

Daunomycin and doxorubicin Lym-1-drug conjugates for the treatment of malignant lymphomas. Chen FM, et al. **Cancer Treat Res** 1989;42:97–104

Aggressive polychemotherapy for acute myelofibrosis. Hertenstein B, et al. **Eur J Haematol** 1990 Apr;44(4):213–9

A fluorescein angiographic study on patients with proliferative vitreoretinopathy treated by vitrectomy and intraocular daunomycin. Wiedemann P, et al. **Int Ophthalmol** 1989 May;13(3):211–6

In vitro and in vivo cytotoxic activity of anti-human leukemia monoclonal antibodies SN5c and SN6 daunorubicin conjugates. Biddle WC, et al. **Leuk Res** 1989; 13(8):699–707

Significance of antigen, drug, and tumor cell targets in the preclinical evaluation of doxorubicin, daunorubicin, methotrexate, and mitomycin-C monoclonal antibody immunoconjugates. Dillman RO, et al. **Mol Biother** 1989; 1(5):250–5

[Study of toxicity and antineoplastic activity of 14-substituted derivatives of rubomycin and carminomycin] Ul'ianova LA, et al. **Antibiot Khimioter** 1990 Feb;35(2):24–6 (Eng. Abstr.) **(Rus)**

TOXICITY

Naka-Rushton equation parameters in electroretinogram analysis of daunomycin effects on retinal function. Gangadhar DV, et al. **Doc Ophthalmol** 1989 May; 72(1):61–70

Daunorubicin-induced mammary tumors in the rat. Howell SK, et al. **Eur J Cancer Clin Oncol** 1989 Nov; 25(11):1549–54

[Daunomycin rats. Second Report. Is it possible to use daunomycin rats as an experimental model of chronic renal failure?] Shimizu K, et al. **Nippon Jinzo Gakkai Shi** 1990 Feb;32(2):137–45 (Eng. Abstr.) **(Jpn)**

DAY CARE

New chronic schizophrenic patients: a comparison of daypatients and inpatients. Hogg LI, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):271–6

Geriatric day hospitals: consultant and community units compared [see comments] Barker LC, et al. **Age Ageing** 1989 Nov;18(6):364–70 Comment in: Age Ageing 1989 Nov;18(6):361–3.

Drug compliance amongst psychiatric day hospital attenders. Rosenvinge HP, et al. **Age Ageing** 1990 May;19(3):191–4

Geriatric day hospitals [comment] Vetter NJ, et al. **Age Ageing** 1989 Nov;18(6):361–3 (15 ref.) Comment on: Age Ageing 1989 Nov;18(6):364–70.

Partial hospitalization and psychotic patients [letter] Olfson M. **Am J Psychiatry** 1990 Sep;147(9):1255–6

Partial hospitalization: an update. Parker S, et al. **Am J Psychiatry** 1990 Feb;147(2):156–60

Carriage and antibiotic susceptibility of Haemophilus influenzae type b and non b in Danish day-care attendees. Kristensen K. **APMIS** 1990 Jan;98(1):50–2

Day-hospital and community treatment for acute psychiatric illness. A critical appraisal. Creed F, et al. **Br J Psychiatry** 1989 Mar;154:300–10 (53 ref.)

Treatment of severe psychiatric illness in a day hospital. Creed F, et al. **Br J Psychiatry** 1989 Mar;154:341–7

Ultrasound as part of a 1-day gastroenterology clinic: advantages and problems. Ryan S, et al. **Br J Radiol** 1990 Sep;63(753):698–9

Combining day patient treatment with family work in a child psychiatry clinic. Place M, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):373–8

Day care programs and research challenges [editorial] Capitman JA. **Gerontologist** 1989 Oct;29(5):584–5

Models of adult day care: findings from a national survey. Weissert WG, et al. **Gerontologist** 1989 Oct;29(5):640–9

A comparison of geriatric day hospitals in Fife. Rowarth M, et al. **Health Bull (Edinb)** 1990 Jul;48(4):181–8

Large-group psychotherapy in a day treatment program. Rosie JS, et al. **Int J Group Psychother** 1990 Jul; 40(3):305–21

Serum hypomagnesaemia in an elderly day-hospital population. Hayes JP, et al. **Ir Med J** 1989 Sep;82(3):117–9

Geriatric day hospitals [letter; comment] George J. **J R Coll Gen Pract** 1989 Aug;39(325):349 Comment on: J R Coll Gen Pract 1988 Nov;38(316):498–9.

Outcome of a unique youth drug abuse program: a follow-up study of clients of Straight, Inc. Friedman AS, et al. **J Subst Abuse Treat** 1989;6(4):259–68

Day care: can it prevent readmission to a psychiatric hospital? Barkley AL, et al. **Psychiatr J Univ Ott** 1989 Nov; 14(4):536–41

[Day care in the nursing home: relieving stress in the household] Cools HJ, et al. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2057–9 **(Dut)**

[Anesthesia in children at day-care hospitals] Saint-Maurice C. **Agressologie** 1990 Jan;31(1):11–4 (Eng. Abstr.) **(Fre)**

[Anesthesia in children at a day care hospital] Saint-Maurice C, et al. **Can Anesthesiol** 1989 Oct;37(6):409–14 **(Fre)**

[Malévoz' day hospital—a tool for rehabilitation?] Fasmeyer N. **Rev Med Suisse Romande** 1990 Jan;110(1):31–3 **(Fre)**

[Effects of partial inpatient treatment of preschool children with behavior disorders and developmental delay] Döpfner M, et al. **Z Kinder Jugenpsychiatr** 1989 Sep;17(3):131–9 (Eng. Abstr.) **(Ger)**

[Experience at a geronto-psychiatric day time hospital] Trifonov EG. **Sov Med** 1990;(4):42–5 **(Rus)**

[The main indications for referring patients to a day hospital] Zhalkovskiĭ BV, et al. **Ter Arkh** 1990;62(1):12–4 (Eng. Abstr.) **(Rus)**

[Day care hospitals for treatment of otorhinolaryngologic patients] Chukhraev AM, et al. **Vestn Otorinolaringol** 1990 May–Jun;(3):48–9 **(Rus)**

[The efficacy of intravenous laser therapy of patients with ischemic heart disease at a day hospital of a polyclinic] Pashnev VIa, et al. **Voen Med Zh** 1989 Dec;(12):38–9 **(Rus)**

[Experience with the rehabilitative treatment of gynecologic patients at a day hospital] Dolgushina LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Jul–Aug;(4):62–3 **(Rus)**

ECONOMICS

Cost-effectiveness of day care settings for frail elderly people [letter; comment] Brocklehurst JC. **Age Ageing** 1989 Jul; 18(4):282 Comment on: Age Ageing 1988 Sep;17(5):311–8.

Patterns of service use and costs in model day hospital-in programs in Boston and Tucson. Dickey B, et al. **Hosp Community Psychiatry** 1990 Apr;41(4):419–24

Meeting production: the economics of contracting mental illness. Baldwin DM. **Soc Sci Med** 1990;30(9):961–8

[Cost effectiveness of inpatient hospital care, day hospital care and outpatient consultation in pneumology. Apropos of 162 patients] Hirsch A, et al. **Rev Mal Respir** 1990; 7(4):331–5 (Eng. Abstr.) **(Fre)**

[Economic substantiation of intensifying the activities of pediatric surgical departments] Bushmelev VA, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):11–4 (Eng. Abstr.) **(Rus)**

METHODS

Intensive day treatment provides an alternative to residential care. Hamm J. **Child Today** 1989 Sep–Oct;18(5):11–5

Feelings group for adult day care. Van Wylen MD, et al. **Gerontologist** 1990 Aug;30(4):557–9

Treatment of the mentally ill chemical abuser: description of the Hutchings Day Treatment Program. Carey KB. **Psychiatr Q** 1989 Winter;60(4):303–16

Strategies of rehabilitation in the Day Hospital. Ba G. **Psychother Psychosom** 1988;50(3):151–6 (15 ref.)

[The treatment of psoriasis in a day care center] de Hoop D, et al. **Ned Tijdschr Geneeskd** 1990 Jun 23;134(25):1220–3 (Eng. Abstr.) **(Dut)**

[Geriatric day clinics and rehabilitation] Summa JD, et al. **Fortschr Med** 1989 Oct 30;107(31):650–4 (Eng. Abstr.) **(Ger)**

[Day care management] Jährig K, et al. **Kinderarztl Prax** 1989 Dec;57(12):583–8 (Eng. Abstr.) **(Ger)**

[The combined treatment of patients with vascular diseases of the legs at a polyclinic day hospital] Vorob'ev LP. **Voen Med Zh** 1989 Sep;(9):49–51 **(Rus)**

ORGANIZATION & ADMINISTRATION

A day treatment program for persons with AIDS. Gutterman L. **Am J Occup Ther** 1990 Mar;44(3):234–7

Early experience in the establishment of an integrated psychiatric day hospital. Strachan JG, et al. **Health Bull (Edinb)** 1989 May;47(3):133–40

Organizational determinants of efficiency and effectiveness in mental health partial care programs. Schinnar AP, et al. **Health Serv Res** 1990 Jun;25(2):387–420

The practice of a day-care welfare facility for profoundly handicapped persons. Sashika H, et al. **Int Disabil Stud** 1989 Apr-Jun;11(2):97-9

Clinics for HIV-positive patients. Hawkins D. **Practitioner** 1989 Nov 8;233(1478):1449-52

Day care for demented patients in general nursing homes. Effects on admissions to institutions and mental capacity. Engedal K. **Scand J Prim Health Care** 1989 Oct;7(3):161-6

[The "diagnostic day hospital." A proposal for functional support by hospital services and primary care] Triulzi M, et al. **Ann Ig** 1989 Jan-Apr;1(1-2):255-65 (Eng. Abstr.) (Ita)

[Day-time hospital—an effective form of intensive treatment in ambulatory-polyclinical conditions] Baĭda VD, et al. **Sov Med** 1989;(6):40-2 (Rus)

[Optimal organization of the activities of polyclinics in the Lvov district] Ladnyĭ AIa. **Sov Zdravookhr** 1989;(10):58-60 (Eng. Abstr.) (Rus)

[The founding and development of day care hospitals as integral structural subunits of therapeutic and preventive care institutions] Ladnyĭ AIa, et al. **Sov Zdravookhr** 1990;(2):12-8 (Eng. Abstr.) (Rus)

[Organization of day hospitals in outpatient care facilities] Zagorodniĭ VV, et al. **Sov Zdravookhr** 1989;(12):41-2 (Rus)

[Day-care hospital in a polyclinic] Kireenko VA, et al. **Vestn Khir** 1989 May;142(5):102 (Rus)

[Various problems of the organization, extent and planning of the activities of an interregional center for ambulatory surgery] Savel'ev IuS, et al. **Vestn Khir** 1989 Nov; 143(11):133-5 (Rus)

[Treatment of outpatients at a polyclinic day hospital] Me'nichuk IN, et al. **Voen Med Zh** 1989 Sep;(9):13-4 (Rus)

[Experience in organizing a day hospital for the treatment of tuberculosis patients] Akhtyrskiĭ AI, et al. **Vrach Delo** 1990 Feb;(2):117-8 (Rus)

[The role of day hospitals in the treatment of patients of neurological patients] Pianov IuV, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):71-2 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Effects on care-givers of special day care programmes for dementia sufferers. Wells YD, et al. **Aust N Z J Psychiatry** 1990 Mar;24(1):82-90

Psychiatric day care: the users' perspective. Holloway F. **Int J Soc Psychiatry** 1989 Autumn;35(3):252-64

Needs for care among the relatives of long-term users of day care. A report from the Camberwell High Contact Survey. MacCarthy B, et al. **Psychol Med** 1989 Aug; 19(3):725-36

STANDARDS

Screening and surveillance of pregnancy hypertension—an economic approach to the use of daycare. Rosenberg K, et al. **Baillieres Clin Obstet Gynaecol** 1990 Mar;4(1):89-107

Day hospital and stroke patients. Forster A, et al. **Int Disabil Stud** 1989 Oct-Dec;11(4):181-3

TRENDS

Survey of adult day care in the United States. National and regional findings. Conrad KJ, et al. **Res Aging** 1990 Mar; 12(1):36-56

[Reduction of complete inpatient treatment by a system of partial hospitalization, ambulatory and complementary services] Bolm W, et al. **Psychiatr Prax** 1989 Nov; 16(6):199-206 (Eng. Abstr.) (Ger)

[The function of the independent day clinic in psychiatric treatment] Engelke W. **Psychiatr Prax** 1989 Nov; 16(6):218-21 (Eng. Abstr.) (Ger)

[Full inpatient versus partial inpatient psychiatric after-care—a comparative retrospective study] Vaitl P, et al. **Psychiatr Prax** 1989 Nov;16(6):214-7 (Eng. Abstr.) (Ger)

[Development of semi-inpatient care] Sauerteig KH, et al. **Z Gesamte Hyg** 1990 Jan;36(1):16-8 (0 ref.) (Eng. Abstr.) (Ger)

[Present status and the future prospect of the psychiatric day care] **Seishin Shinkeigaku Zasshi** 1989;91(11):871-917 (Jpn)

UTILIZATION

Utilization of partial hospitalization programs [letter] Nand SS. **Am J Psychiatry** 1990 Oct;147(10):1390-1

Randomised controlled trial of day patient versus inpatient psychiatric treatment. Creed F, et al. **BMJ** 1990 Apr 21; 300(6731):1033-7

Evolution in a geriatric day hospital—a seven year follow-up. Farquhar DL, et al. **Health Bull (Edinb)** 1989 Mar;47(2):68-71

DAY DREAMS see **FANTASY**

DCMU see **DIURON**

D-D CARBOXYPEPTIDASE see **CARBOXYPEPTIDASE TRANSPEPTIDASE**

DDA (ANTIVIRAL) see **DIDEOXYADENOSINE**

DDAVP see **DESMOPRESSIN**

DDC (ANTIVIRAL) see **DIDEOXYCYTIDINE**

DDD

METABOLISM

Covalent binding of four DDD isomers in the mouse lung: lack of structure specificity. Lund BO, et al. **Pharmacol Toxicol** 1989 Oct;65(4):282-6

O,P-DDD see **MITOTANE**

DDE

ANALYSIS

Organochlorine compounds in human adipose tissue from north Texas. Adeshina F, et al. **J Toxicol Environ Health** 1990;29(2):147-56

BLOOD

Comparison study of the sensitivities of some indices of DDT exposure in human blood and urine. Nhachi CF, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):493-8

METABOLISM

Effect of sediment contact and uptake mechanisms on accumulation of three chlorinated hydrocarbons in the midge, Chironomus riparius. Fry DM, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):790-7

TOXICITY

Effect of DDE on ionic and fluid movement in rat colon in vitro. Iturri SJ, et al. **Comp Biochem Physiol [C]** 1989; 94(1):173-6

DDI (ANTIVIRAL) see **DIDEOXYINOSINE**

DDT

Interaction of hydrophobic organic compounds with mercury adsorbed dioleoylphosphatidylcholine monolayers. Nelson A, et al. **Biochim Biophys Acta** 1990 Jan 29;1021(2):205-16

Behavioral responses of Anopheles darlingi in Suriname to DDT residues on house walls. Rozendaal JA, et al. **J Am Mosq Control Assoc** 1989 Sep;5(3):339-50

Effect of DDT on survival and blood feeding success of Anopheles arabiensis in northern Kwazulu, Republic of South Africa. Sharp BL, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):197-202

First record of DDT resistance in Anopheles darlingi. Suarez MF, et al. **J Am Mosq Control Assoc** 1990 Mar;6(1):72-4

Susceptibility status of Culex vishnui to DDT and dieldrin in Deoria, Uttar Pradesh. Yadava RL, et al. **J Commun Dis** 1989 Jun;21(2):137-8

Susceptibility status of Anopheles maculatus Theobald (Diptera: Culicidae) to DDT in Peninsular Malaysia. Loong KP, et al. **Southeast Asian J Trop Med Public Health** 1989 Sep;20(3):415-20

ADVERSE EFFECTS

Controversies over pesticides: the lessons for public health. Copplestone JF. **Asia Pac J Public Health** 1989;3(2):165-70

ANALOGS & DERIVATIVES

Altered behaviour in adult mice exposed to a single low dose of DDT and its fatty acid conjugate as neonates. Eriksson P, et al. **Brain Res** 1990 Apr 23;514(1):141-2

ANALYSIS

DDT contamination of benthic macroinvertebrates and sediments from tributaries of Wheeler Reservoir, Alabama. Webber EC, et al. **Arch Environ Contam Toxicol** 1989 Sep; 18(5):728-33

Distribution of pp'DDT in certain brain regions of rats treated with diazinon. Matin MA, et al. **Arh Hig Rada Toksikol** 1988 Dec;39(4):365-9

Concentrations of selected chlorinated pesticides in shrimp collected from the Calcasieu River/Lake Complex, Louisiana. Murray HE, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):798-804

Comparison study of the sensitivities of some indices of DDT exposure in human blood and urine. Nhachi CF, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):493-8

Organochlorine compounds in human adipose tissue from north Texas. Adeshina F, et al. **J Toxicol Environ Health** 1990;29(2):147-56

Contamination of bovine (buffalo, Bubalus bubalis (L.)) milk from indoor use of DDT and HCH in malaria control programmes. Battu RS, et al. **Sci Total Environ** 1989 Oct 15;86(3):281-7

[Residues of lindane and DDT in drugs from wild medicinal plants in a cultivated forest. 2.] Benecke R, et al. **Pharmazie** 1989 Aug;44(8):562-4 (Eng. Abstr.) (Ger)

[Xenobiotics in the food chain] Rupčíková P, et al. **Z Gesamte Hyg** 1990 Jun;36(6):311-3 (Eng. Abstr.) (Ger)

ANTAGONISTS & INHIBITORS

[The DDT and malathion resistance of malarial mosquitoes in the Mariupol area] Severin NV. **Med Parazitol (Mosk)** 1989 Jul-Aug;(4):22-4 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Preparation and characterization of polyclonal and monoclonal antibodies against the insecticide DDT. Bürgisser D, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1228-36

METABOLISM

Characterization of new bacterial transformation products of 1,1,1-trichloro-2,2-bis-(4-chlorophenyl) ethane (DDT) by gas chromatography/mass spectrometry. Massé R, et al. **Biomed Environ Mass Spectrom** 1989 Sep;18(9):741-52

PHARMACOLOGY

Effect of DDT on hepatic mixed-function oxidase activity in normal and vitamin A-deficient rats. Gupta PH, et al. **Biochem Int** 1989 Aug;19(2):247-56

Changes in lipid profiles of liver microsomes of rats following intratracheal administration of DDT or endosulfan. Narayan S, et al. **J Environ Sci Health [B]** 1990 Apr; 25(2):243-57

Lung subcellular fractions and surfactant lipid metabolism of rats exposed with DDT or endosulfan intratracheally. Narayan S, et al. **J Environ Sci Health [B]** 1990 Apr; 25(2):259-72

The organochlorine insecticide 1,2,3,4,5,6-hexachlorocyclohexane (lindane) but not 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane (DDT) augments the nocturnal increase in pineal N-acetyltransferase activity and pineal and serum melatonin levels. Attia AM, et al. **Neurochem Res** 1990 Jul;15(7):673-80

Blockade of only spinal alpha 1 adrenoceptors is insufficient to attenuate DDT-induced alterations in motor function. Herr DW, et al. **Toxicol Appl Pharmacol** 1989 Oct; 101(1):11-26

POISONING

Occupational exposure to DDT among mosquito control sprayers. Nhachi CF, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):189-92

TOXICITY

DDT toxicity: variations in tissue non-specific phosphomonoesterases and gluconeogenic enzymes in three teleosts. Shaffi SA, et al. **Acta Physiol Hung** 1989; 74(1):57-62

Membrane fluidity as affected by the organochlorine insecticide DDT. Antunes-Madeira MC, et al. **Biochim Biophys Acta** 1990 Apr 30;1023(3):469-74

Altered behaviour in adult mice exposed to a single low dose of DDT and its fatty acid conjugate as neonates. Eriksson P, et al. **Brain Res** 1990 Apr 23;514(1):141-2

DDT (2,2,bis(p-chlorophenyl) 1,1,1-trichloroethane) induced structural changes in adrenal glands of rats. Chowdhury AR, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):193-6

Promotion of altered hepatic foci development in rat liver, cytochrome P450 enzyme induction and inhibition of cell-cell communication by DDT and some structurally related organohalogen pesticides. Flodström S, et al. **Carcinogenesis** 1990 Aug;11(8):1413-7

Changes in cytosolic CA2+ are not involved in DDT-induced loss of gap junctional communication in WB-F344 cells. Fransson R, et al. **Cell Biol Toxicol** 1990 Apr;6(2):235-44

Induction of phosphatidylcholine biosynthesis via CDPcholine pathway in lung and liver of rats following intratracheal administration of DDT and endosulfan. Narayan S, et al. **J Biochem Toxicol** 1989 Winter; 4(4):205-10

Influence of DDT and PCBs in rabbits and goats as related to nucleic acid, protein and lipid metabolism. Chung RA, et al. **J Environ Pathol Toxicol Oncol** 1989 May-Jun; 9(3):283-302

DDVP see **DICHLORVOS**

DDX see **DDE**

DE LANGE'S SYNDROME

COMPLICATIONS

Neonatal-onset panhypopituitarism in a girl with Brachmann-De Lange syndrome. Tonini G, et al. **Am J Med Genet** 1990 May;36(1):102-3

Cornelia de Lange syndrome. Otolaryngologic manifestations. Sataloff RT, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1044-6

DIAGNOSIS

Brief historical note on the Brachmann-de Lange syndrome: a patient closely resembling the case described by

Brachmann in 1916. Meinecke P, et al. **Am J Med Genet** 1990 Mar;35(3):449–50
[Brachmann–de Lange syndrome in 16 of our patients] Pankau R, et al. **Monatsschr Kinderheilkd** 1990 Feb; 138(2):72–6 (Eng. Abstr.) **(Ger)**

GENETICS

Cornelia de Lange syndrome with ring chromosome 3. Lakshminarayana P, et al. **J Med Genet** 1990 Jun; 27(6):405–6

PHYSIOPATHOLOGY

Hearing levels in the Cornelia de Lange syndrome. A report of seven cases. Marres HA, et al. **Int J Pediatr Otorhinolaryngol** 1989 Sep;18(1):31–7

SURGERY

Cosmetic surgery for Cornelia de Lange syndrome. Hems TE, et al. **Br J Plast Surg** 1990 Jul;43(4):489–91

DE QUERVAIN THYROIDITIS see **THYROIDITIS, SUBACUTE**

DE TONI–DEBRE–FANCONI SYNDROME see **FANCONI SYNDROME**

DEAE–CELLULOSE see under **CELLULOSE**

DEAE–CELLULOSE CHROMATOGRAPHY see **CHROMATOGRAPHY, DEAE–CELLULOSE**

DEAE–DEXTRAN see under **DEXTRANS**

DEAF–MUTISM see **DEAFNESS**

DEAFNESS

see related
HEARING AIDS
LIPREADING

Programs and services for the deaf in the United States. IV. Research programs and services. **Am Ann Deaf** 1989; 134(2):179–87
Assessment of multi-handicapped deaf students. **Am Ann Deaf** 1989;134(2):79–83
The use of cumulative cloze to investigate contextual build-up in deaf and hearing readers. McKnight TK. **Am Ann Deaf** 1989 Oct;134(4):268–72
The big search: streamlining the textbook selection process. Mahoney D, et al. **Am Ann Deaf** 1989 Jul;134(3):193–9
Politics and disability [editorial] Vernon M. **Am Ann Deaf** 1989 Jul;134(3):191
Life problems of deaf people. Prevention and treatment. Switzer ME, et al. **Arch Environ Health** 1967 Aug; 15(2):249–56
Falling among the sensorially impaired elderly. Tobis JS, et al. **Arch Phys Med Rehabil** 1990 Feb;71(2):144–7
Experimental animals: let's be human! [letter; comment] Balay G. **ASHA** 1989 Nov;31(11):6 Comment on: ASHA 1989 May;31(5):73–4.
'Communication with deaf people in the surgery setting' [letter; comment] Crabb JJ. **Br Dent J** 1990 Feb 10; 168(3):93 Comment on: Br Dent J 1989 Nov 25;167(10):350–2.
Communication with deaf people in the surgery setting [see comments] Hector S, et al. **Br Dent J** 1989 Nov 25; 167(10):350–2 Comment in: Br Dent J 1990 Feb 10;168(3):93.
A perceptual evaluation of the speech of adventitiously deaf adult males. Leder SB, et al. **Ear Hear** 1990 Jun; 11(3):169–75
Keratitis, ichthyosis, and deafness (KID) syndrome. McGrae JD Jr. **Int J Dermatol** 1990 Mar;29(2):89–93 (45 ref.)
Physicians need to hear deaf patients' needs [letter; comment] Ross H. **J Am Osteopath Assoc** 1989 Oct;89(10):1241, 1245 Comment on: J Am Osteopath Assoc 1989 Jun;89(6):780–2.
The semantic structure in deaf children. Green WB, et al. **J Commun Disord** 1975 Dec;8(4):357–65
Support services in Canadian schools for the hearing impaired: 10 years later. Williams DM, et al. **J Otolaryngol** 1989 Dec;18(7):386–9

COMPLICATIONS

Late corneal opacities in the syndrome of interstitial keratitis and vestibulo-auditory symptoms. Cogan DG, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:182–7
Phonological space in the speech of the hearing impaired. Shukla RS. **J Commun Disord** 1989 Oct;22(5):317–25
Tinnitus in children with hearing loss. Viani LG. **J Laryngol Otol** 1989 Dec;103(12):1142–5
Concurrent pancreatic and growth hormone insufficiency in Johanson–Blizzard syndrome. Sandhu BK, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):535–8
Predicting voice quality of deaf speakers on the basis of glottal characteristics. Arends N, et al. **J Speech Hear Res** 1990 Mar;33(1):116–22
Perception of terminal fall contours in speech produced by deaf persons. Rubin-Spitz J, et al. **J Speech Hear Res** 1990 Mar;33(1):174–80
Cervico-oculo-acusticus (Wildervanck's) syndrome: a clinical variant of Klippel-Feil sequence? Corsello G, et al. **Klin Padiatr** 1990 May-Jun;202(3):176–9
Systemic cytomegalovirus in a patient with the keratitis, ichthyosis, and deafness (KID) syndrome. Helm K, et al. **Pediatr Dermatol** 1990 Mar;7(1):54–6
Age-related differences in prevalence and intensity of Trichuris trichiura in sensory impaired children from two schools in Guatemala. Scott ME, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):542–4
Capgras's syndrome associated with sensory loss. Signer SF, et al. **West J Med** 1990 Jun;152(6):719–20
[Renal tubular acidosis and perception deafness. Apropos of a familial form] Chevallier B, et al. **Ann Pediatr (Paris)** 1990 Mar;37(3):175–7 (Eng. Abstr.) **(Fre)**
[Alalic syndromes in deaf children] Saraev SIa, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):90–5 (Eng. Abstr.) **(Rus)**
[Metabolism of purine nucleotides in the central nervous system in patients with phosphoribosylpyrophosphate synthetase hyperactivity and neurosensory deafness] López Jiménez M, et al. **Neurologia** 1990 Jan;5(1):14–7 (Eng. Abstr.) **(Spa)**

CONGENITAL

CT-scanning of the cochlea in Pendred's syndrome. Johnsen T, et al. **Clin Otolaryngol** 1989 Oct;14(5):389–93
The variable intrafamiliar expressivity in Pendred's syndrome. Johnsen T, et al. **Clin Otolaryngol** 1989 Oct; 14(5):395–9
Brain stem evoked response audiometry in neonates. Mandal AK, et al. **Indian Pediatr** 1989 Jun;26(6):566–70
Cognitive consequences of congenital deafness. Tomlinson-Keasey C, et al. **J Genet Psychol** 1990 Mar; 151(1):103–15
[Congenital sensorineural deafness and associated syndromes] Moatti L, et al. **Ann Otolaryngol Chir Cervicofac** 1990; 107(3):181–6 (10 ref.) (Eng. Abstr.) **(Fre)**
[Bilateral congenital profound hearing loss and hypospadias—a new syndrome?] Milewski C. **Laryngorhinootologie** 1990 Mar;69(3):145–9 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Screening for sensorineural deafness by health visitors. The Steering Committee, Oxford Region Child Development Project. Johnson A, et al. **Arch Dis Child** 1990 Aug; 65(8):841–5
Temporal bone pathology in intracochlear schwannoma with profound hearing loss. Ohtani I, et al. **Auris Nasus Larynx** 1990;17(1):17–22
Screening of school aged children [letter] Bannon MJ. **BMJ** 1990 Jun 9;300(6738):1528
Fountain's syndrome: mental retardation, sensorineural deafness, skeletal abnormalities, and coarse face with full lips. Fryns JP. **J Med Genet** 1989 Nov;26(11):722–4
Auditory brainstem response results as predictors of behavioral auditory thresholds in severe and profound hearing impairment. Brookhouser PE, et al. **Laryngoscope** 1990 Aug;100(8):803–10
[A case of van der Hoeve's syndrome] Tishkovskiĭ VG, et al. **Ter Arkh** 1990;62(5):125–7 **(Rus)**

ETIOLOGY

EEG and CT abnormalities in xeroderma pigmentosum. Mimaki T, et al. **Acta Neurol Scand** 1989 Aug;80(2):136–41
Cornelia de Lange syndrome. Otolaryngologic manifestations. Sataloff RT, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1044–6
Causes of deafness in schools for the deaf in Madras. Gray RF. **Int J Pediatr Otorhinolaryngol** 1989 Dec;18(2):97–106
Streptococcus suis meningitis, permanent perceptive deafness and endophthalmitis [letter] Coolen L, et al. **Intensive Care Med** 1989;15(8):545
Encephalopathy, deafness and blindness in young women: a distinct retinocochleocerebral arteriolopathy? [letter; comment] Asherson RA, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):1020–1 Comment on: J Neurol Neurosurg Psychiatry 1989 Jan;52(1):43–6.
There ain't no justice. Avery JK. **J Tenn Med Assoc** 1990 Aug;83(8):405
Chronic neurobrucellosis due to Brucella melitensis. Bucher A, et al. **Scand J Infect Dis** 1990;22(2):223–6
[The role of cytomegaloviruses in childhood deafness] Lobovská A, et al. **Cas Lek Cesk** 1990 May 25; 129(21):654–6 (Eng. Abstr.) **(Cze)**
[Cochlear and facial nerve function after surgery of acoustic neuroma] Portmann M. **Bull Acad Natl Med** 1989 Jun; 173(6):727–32; discussion 732–3 (Eng. Abstr.) **(Fre)**
[Neurofibromatosis 2 (bilateral acoustic neurofibromatosis)] Yalcinkaya C, et al. **Schweiz Med Wochenschr** 1989 Oct 14;119(41):1416–20 (21 ref.) (Eng. Abstr.) **(Ger)**
[Vestibular dysfunction and deafness complicating mumps parotitis] Izraeli S, et al. **Harefuah** 1989 Nov 1;117(9):243–4 (Eng. Abstr.) **(Heb)**
[Unilateral nerve deafness due to rupture of a right vertebral artery aneurysm. Case report] Nishizawa S, et al. **Neurol Med Chir (Tokyo)** 1989 Aug;29(8):772–6 (Eng. Abstr.) **(Jpn)**
[Hearing loss in suppurative meningitis and encephalitis in our cases] Kępa L, et al. **Pol Tyg Lek** 1989 Jan 30; 44(5):112–5 (Eng. Abstr.) **(Pol)**

GENETICS

Variability in genetically induced age-related impairment of auditory brainstem response thresholds. Sjöström B, et al. **Acta Otolaryngol (Stockh)** 1990 May-Jun;109(5–6):353–60
Hereditary nephropathy without deafness. Dockhorn RJ. **Am J Dis Child** 1967 Aug;114(2):135–8
Genetic mapping of X-linked albinism–deafness syndrome (ADFN) to Xq26.3–q27.1. Shiloh Y, et al. **Am J Hum Genet** 1990 Jul;47(1):20–7
Two brothers with idiopathic membranous nephropathy and familial sensorineural deafness. Meroni M, et al. **Am J Kidney Dis** 1990 Mar;15(3):269–72
Clinical pattern and the genetics of the fetal iodine deficiency disorder (endemic cretinism): results of a field study in Highland Ecuador. Held KR, et al. **Am J Med Genet** 1990 Jan;35(1):85–90
Availability of genetic services to the deaf [letter] Ing PS, et al. **Am J Med Genet** 1989 Oct;34(2):300–1
Familial distal renal tubular acidosis with neurosensory deafness: early nephrocalcinosis. Bentur L, et al. **Am J Nephrol** 1989;9(6):470–4
Consanguinity among parents of hearing-impaired children in relation to ethnic groups in the Jewish population of Jerusalem. Feinmesser M, et al. **Audiology** 1989; 28(5):268–71
Familial occurrence of KID (keratitis, ichthyosis, deafness) syndrome. Case reports of a mother and daughter. Nazzaro V, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):385–8
Aniridia and deafness: an inherited disorder. Courteney-Harris RG, et al. **J Laryngol Otol** 1990 May; 104(5):419–20
An epidemiological and genetic study of congenital profound deafness in Tunisia (governorate of Nabeul). Ben Arab S, et al. **J Med Genet** 1990 Jan;27(1):29–33
Pontobulbar palsy and neurosensory deafness (Brown–Vialetto–Van Laere syndrome) with possible autosomal dominant inheritance. Hawkins SA, et al. **J Med Genet** 1990 Mar;27(3):176–9
Sex linked deafness: Wilde revisited. Reardon W. **J Med Genet** 1990 Jun;27(6):376–9
Autosomal dominant cerebellar ataxia with deafness, myoclonus and amyotrophy [letter] Melo TP, et al. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1448–9
Oto-palato-digital syndrome in an Iranian infant. Farhud DD, et al. **Monatsschr Kinderheilkd** 1989 Oct;137(10):681–3
Genetic causes of hearing loss in children. Cantani A. **Pediatr Padol** 1989;24(4):321–30 (27 ref.)
[Mode of inheritance of congenital deaf–mutism] Hu DN, et al. **I Chuan Hsueh Pao** 1988;15(4):303–8 (Eng. Abstr.) **(Chi)**
[Muckle–Wells syndrome: a new familial case. Demonstration of abnormalities of lymphocyte subpopulations] Nicolas JF, et al. **Ann Dermatol Venereol** 1989;116(11):827–9 **(Fre)**
[Hereditary nephritis with deafness in one family] Golev GD. **Klin Med (Mosk)** 1989 Nov;67(11):128–30 **(Rus)**
[Usher syndrome II localized on chromosome 1] Möller C. **Lakartidningen** 1990 May 16;87(20):1758 **(Swe)**

HISTORY

Neonatology—then and now. Deafness in children of very low birth weight (1964). Walker CH. **Arch Dis Child** 1989 Nov;64(11):1646
St Cadoc and the healing of the deaf. Stephens SD. **J Laryngol Otol** 1990 Jan;104(1):1–3
Beethoven's deafness. Liston SL, et al. **Laryngoscope** 1989 Dec;99(12):1301–4

METABOLISM

Neurodevelopmental impairment and deranged PRPP and purine nucleotide synthesis in inherited superactivity of PRPP synthetase. Becker MA, et al. **Adv Exp Med Biol** 1989;253A:15–22
Increased purine nucleotide degradation in the central nervous system (CNS) in PRPP synthetase superactivity. Jiménez ML, et al. **Adv Exp Med Biol** 1989;253A:9–13

PATHOLOGY

Histopathologic features of the inner ear associated with Kearns–Sayre syndrome. Lindsay JR, et al. **Arch Otolaryngol** 1976 Dec;102(12):747–52
Keratitis, ichthyosis and deafness (KID)-syndrome: report of three cases and a review of the literature. Langer K, et al. **Br J Dermatol** 1990 May;122(5):689–97 (26 ref.)
Keratitis, ichthyosis, and deafness (KID) syndrome with adult onset of keratitis component. McGrae JD Jr. **Int J Dermatol** 1990 Mar;29(2):145–6
Pathology of profound sensorineural hearing loss in infancy and early childhood. Oliveira CA, et al. **Laryngoscope** 1990 Aug;100(8):902–9

PHYSIOPATHOLOGY

Effect of maternal rubella on hearing and vision: a twenty year post-epidemic study. Johnson DD, et al. **Am Ann Deaf** 1989 Jul;134(3):232–42
Estimation of surviving spiral ganglion cells in the deaf rat using the electrically evoked auditory brainstem response. Hall RD. **Hear Res** 1990 Apr;45(1–2):123–36
Temporal response patterns of auditory nerve fibers to

electrical stimulation in deafened squirrel monkeys. Parkins CW. **Hear Res** 1989 Sep;41(2–3):137–68
Outer hair cell receptor current and sensorineural hearing loss. Patuzzi RB, et al. **Hear Res** 1989 Oct;42(1):47–72 (83 ref.)
The speech of a postlingually deafened teenager during the first year of use of a multichannel cochlear implant. Tartter VC, et al. **J Acoust Soc Am** 1989 Dec;86(6):2113–21
Jaw and lip movements of deaf talkers producing utterances with known stress patterns. Tye–Murray N, et al. **J Acoust Soc Am** 1990 Jun;87(6):2675–83
The recognition of vowels differing by a single formant by cochlear–implant subjects. Tyler RS, et al. **J Acoust Soc Am** 1989 Dec;86(6):2107–12
Cortical reorganization in deaf children. Wolff AB, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):209–21
Interjected sounds in deaf children's speech. Smith CR. **J Commun Disord** 1975 Jun;8(2):123–8
Speech perception with a single–channel cochlear implant: a comparison with a single–channel tactile device. Carney AE, et al. **J Speech Hear Res** 1990 Jun;33(2):229–37
Temporal–gap detection by cochlear prosthesis users. Preece JP, et al. **J Speech Hear Res** 1989 Dec;32(4):849–56
Performance of some of the better cochlear–implant patients. Tyler RS, et al. **J Speech Hear Res** 1989 Dec;32(4):887–911
[Transduction and motor disorders of cochlear hair cells in Menière and aminoglycoside hearing loss] Zenner HP, et al. **Laryngorhinootologie** 1989 Oct;68(10):552–6 (35 ref.) (Eng. Abstr.) (Ger)

PREVENTION & CONTROL

Hearing screening in health examination services for young children at health centers in Japan. Yokoyama T, et al. **Eur Arch Otorhinolaryngol** 1990;247(5):305–11
Personal view ... strategy for prevention of deafness in the Third World [see comments] Brobby GW. **Trop Doct** 1989 Oct;19(4):152–4 Comment in: Trop Doct 1990 Apr;20(2):71–2.
Prevention of deafness in the Third World [letter; comment] Kennedy I. **Trop Doct** 1990 Apr;20(2):71–2 Comment on: Trop Doct 1989 Oct;19(4):152–4.

PSYCHOLOGY

The criterion–related validity of the WISC–R performance scale and other nonverbal IQ tests for deaf children. Braden JP. **Am Ann Deaf** 1989 Dec;134(5):329–32
Perspectives on deafened adults. David M, et al. **Am Ann Deaf** 1989 Jul;134(3):200–4
Individual differences in cognitive skills related to reading ability in the deaf. Gibbs KW. **Am Ann Deaf** 1989 Jul; 134(3):214–8
A sociometric investigation of sex and race peer preferences among deaf adolescents. Hagborg WJ. **Am Ann Deaf** 1989 Oct;134(4):265–7
Evaluating the success of deaf parents. Jones E, et al. **Am Ann Deaf** 1989 Dec;134(5):312–6
Parental reaction to a child's hearing impairment. Kampfe CM. **Am Ann Deaf** 1989 Oct;134(4):255–9 (20 ref.)
Comparing two causal models of career maturity for hearing–impaired adolescents. King S. **Am Ann Deaf** 1990 Spring;135(1):43–9
Toward greater understanding of depression in deaf individuals. Leigh IW, et al. **Am Ann Deaf** 1989 Oct; 134(4):249–54
Positive justice reasoning in deaf and hearing children before and after exposure to cognitive conflict. Peterson CC, et al. **Am Ann Deaf** 1989 Oct;134(4):277–82
The impact and experience of adventitious deafness. Rutman D. **Am Ann Deaf** 1989 Dec;134(5):305–11 (29 ref.)
Application of coping strategies developed by older deaf adults to the aging process. Tidball K. **Am Ann Deaf** 1990 Spring;135(1):33–40
Fears in hearing–impaired and normally hearing children and adolescents. King NJ, et al. **Behav Res Ther** 1989; 27(5):577–80
Mental health and acquired hearing impairment: a review. Jones EM, et al. **Br J Audiol** 1990 Feb;24(1):3–9 (68 ref.)
The written recall of printed stories by severely deaf children. Banks J, et al. **Br J Educ Psychol** 1990 Jun;60 (Pt 2):192–206
Musical hallucinations in a deaf elderly woman. Fenton GW, et al. **Br J Psychiatry** 1989 Sep;155:401–3
Immediate memory in the orally trained deaf: effects of 'lipreadability' in the recall of written syllables. Campbell R, et al. **Br J Psychol** 1989 Aug;80 (Pt 3):299–312
Self–assessment of selected interpersonal abilities in hard of hearing and deaf adolescents. Beck B. **Int J Rehabil Res** 1988;11(4):343–9
Family functioning and the social adaptation of hearing–impaired youths. Watson SM, et al. **J Abnorm Child Psychol** 1990 Apr;18(2):143–63
Psychological differentiation, arousal, and lipreading efficiency in hearing–impaired and normal children. Mead RA, et al. **J Clin Psychol** 1989 Nov;45(6):851–9
Recognition of altered shapes by hearing and hearing–impaired subjects. Chen KC, et al. **J Gen Psychol** 1990 Jan;117(1):27–37
Effects of alternate modes of administration on Rorschach performance of deaf adults. Schwartz NS, et al. **J Pers Assess** 1990 Summer;54(3–4):671–83
Influence of age, sex, hearing loss, and balance on development of sidearm striking by deaf children. Butterfield SA. **Percept Mot Skills** 1990 Apr;70(2):361–2
Influence of age, sex, hearing loss and balance on development of throwing by deaf children. Butterfield SA. **Percept Mot Skills** 1989 Oct;69(2):448–50
Comparative study of the dynamic, static, and rotary balance of deaf and hearing children. Gayle GW, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):883–8
Deaf versus hearing subjects' recall of words on a distraction task as a function of the signability of the words. Spencer S, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):1043–7
Creative thinking in mentally retarded deaf adolescents. Johnson RA. **Psychol Rep** 1990 Jun;66(3 Pt 2):1203–6
[Meningitis as cause of prelingual deafness (letter)] Cremers CW, et al. **Ned Tijdschr Geneeskd** 1989 Aug 5; 133(31):1562–3 (Dut)
[Preverbal communication and deafness] Daubech Q, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(4):367–73 (Eng. Abstr.) (Fre)

REHABILITATION

Audiological results using single–channel intracochlear implant, vibrotactile aid or acoustic hearing aids. Rihkanen H, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct; 108(3–4):184–9
Signal processing for the profoundly deaf. Boothyroyd A. **Acta Otolaryngol Suppl (Stockh)** 1990;469:166–71 (21 ref.)
Multi–channel cochlear implant patients with different open speech understanding show some similar basic psychophysical results. Cazals Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:150–5
Psychoacoustic aspects of speech pattern coding for the deaf. Faulkner A, et al. **Acta Otolaryngol Suppl (Stockh)** 1990; 469:172–80
Prospects for speech pattern element aids. Fourcin A. **Acta Otolaryngol Suppl (Stockh)** 1990;469:257–67 (12 ref.)
Conditions and possibilities for the detection of speech–signal elements by means of vibrotaction. Lamoré PJ, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:47–54
Electrophonic hearing and cochlear implants. Risberg A, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:156–63
What should be implemented in future cochlear implants? Tyler RS. **Acta Otolaryngol Suppl (Stockh)** 1990;469:268–75
Initial results with simultaneous analog and pulsatile stimulation of the cochlea. von Wallenberg EL, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:140–9
Programs and services for the deaf in the United States. II. Educational programs and services. **Am Ann Deaf** 1989; 134(2):85–153
Programs and services for the deaf in the United States. III. Supportive and rehabilitative programs and services. **Am Ann Deaf** 1989;134(2):155–77
Reading, writing and the Texas supplement to the essential elements for the hearing impaired. Cowan SH. **Am Ann Deaf** 1990 Spring;135(1):41–2
Adjunct questions in prose: a question position–by–reading ability interaction. Dowaliby FJ. **Am Ann Deaf** 1990 Spring;135(1):50–3
Reading comprehension of deaf adolescent residential school students and its relationship to hearing mothers' communication strategies and skills. Kampfe CM. **Am Ann Deaf** 1989 Dec;134(5):317–22
Mainstreaming and postsecondary educational and employment status of a rubella cohort. Kasen S, et al. **Am Ann Deaf** 1990 Spring;135(1):22–6
Can SEE–2 children understand ASL–using adults? Luetke–Stahlman B. **Am Ann Deaf** 1990 Spring;135(1):7–8
Project IDEA: International Deaf Education Association. Olson JR. **Am Ann Deaf** 1989 Dec;134(5):338–40
Conversational strategies of teachers using three methods of communication with deaf children. Power DJ, et al. **Am Ann Deaf** 1990 Spring;135(1):9–13
Training for equity and excellence for college teachers of hearing–impaired students. Sass–Lehrer M, et al. **Am Ann Deaf** 1990 Spring;135(1):54–8
From drill to practice? A question of generalization. Schneiderman E. **Am Ann Deaf** 1990 Spring;135(1):27–32
Trends in rehabilitation after cochlear implantation. Tucci DL, et al. **Arch Otolaryngol Head Neck Surg** 1990 May; 116(5):571–4
PL 99–457: are speech–language pathologists prepared for the challenge? Crais ER, et al. **ASHA** 1990 Apr;32(4):57–61
Speechreading training: believe it or not! De Filippo CL. **ASHA** 1990 Apr;32(4):46–8 (31 ref.)
Audiological rehabilitation in the schools. Flexer C. **ASHA** 1990 Apr;32(4):44–5
Audiological rehabilitation with cochlear implants and tactile aids. Osberger MJ. **ASHA** 1990 Apr;32(4):38–43 (42 ref.)
Stapedius reflex growth function in cochlear implant patients. Stephan K, et al. **Audiology** 1990;29(1):46–54
Non–invasive electrical stimulation of the ear canal as a communication aid in acquired total deafness. Bochenek W, et al. **Br J Audiol** 1989 Nov;23(4):285–91
Teaching lip–reading: the efficacy of lessons on video. Dodd B, et al. **Br J Audiol** 1989 Aug;23(3):229–38
A comparison between coupler gain and insertion gain of hearing aids as used in partially hearing units in five schools in Belfast. Harris WE, et al. **Br J Audiol** 1989 Aug; 23(3):255–60
Campaign aftermath: collaboration and clout [editorial] Martin A. **Br J Audiol** 1989 Aug;23(3):181–3
Separating signal and noise in vibrotactile devices for the deaf. Richardson BL. **Br J Audiol** 1990 Apr;24(2):105–9
Subjective benefit of communication aids evaluated by postlingually deaf adults. Rihkanen H. **Br J Audiol** 1990 Jun;24(3):161–6
Evaluation of tactile aids [letter; comment] Summers I. **Br J Audiol** 1989 Aug;23(3):267–9 Comment on: Br J Audiol 1988 Nov;22(4):313–6.
Coding strategies for a single–channel tactile aid. Summers IR, et al. **Br J Audiol** 1989 Nov;23(4):299–304
Sensorial substitution using sound–vibratory stimuli on the teeth: a new approach to the rehabilitation of the profoundly deaf. Galera–García C, et al. **Int J Neurosci** 1989 Nov;49(1–2):61–70
Prospects and challenges of educating deaf pupils in Nigeria: teachers' perceptions. Togonu–Bickersteth F. **Int J Rehabil Res** 1988;11(3):225–33
A method of assessing the written language of hearing–impaired students. Luckner JL, et al. **J Commun Disord** 1990 Jun;23(3):219–33 (45 ref.)
The University College Hospital/Royal National Institute for the Deaf cochlear implant programme. **J Laryngol Otol Suppl** 1989;18:1–57
Comparison of benefit from UCH/RNID single–channel extracochlear implant and tactile acoustic monitor. Aleksy W. **J Laryngol Otol Suppl** 1989;18:55–7
Case study of a post–lingually deafened child with a UCH/RNID single channel cochlear implant. Booth CL, et al. **J Laryngol Otol Suppl** 1989;18:50–4
UCH/RNID single channel extracochlear implant: results in thirty profoundly deafened adults. Cooper HR, et al. **J Laryngol Otol Suppl** 1989;18:22–38
The University College Hospital/Royal National Institute for the Deaf cochlear implant programme. Fraser JG. **J Laryngol Otol Suppl** 1989;18:1–3
Audio–visual consonant recognition with the 3M/House cochlear implant. Danhauer JL, et al. **J Rehabil Res Dev** 1990 Summer;27(3):247–54
The effects of vocoder filter configuration on tactual perception of speech. Eilers RE, et al. **J Rehabil Res Dev** 1989 Fall;26(4):51–64
Using a phonological framework to describe speech errors of orally trained, hearing–impaired school–agers. Abraham S. **J Speech Hear Disord** 1989 Nov;54(4):600–9
The meaning of communication to a group of deaf college students: a multidimensional perspective. Foster S, et al. **J Speech Hear Disord** 1989 Nov;54(4):558–69
Parents' use of Signing Exact English: a descriptive analysis. Moeller MP, et al. **J Speech Hear Disord** 1990 May; 55(2):327–37
Evaluation of the Craig Lipreading Inventory. Updike CD, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1271–82
Acoustical feedback associated with the use of post aural hearing aids for profoundly deaf children. Dyrlund O. **Scand Audiol** 1989;18(4):237–41
Cochlear implants, vibrators and hearing aids in the rehabilitation of postlingual deafness. Rihkanen H, et al. **Scand Audiol** 1990;19(2):117–21
[Breaking through the silence] Admiraal RJ. **Ned Tijdschr Geneeskd** 1989 Sep 30;133(39):1913–5 (Dut)
[The electronic inner ear prosthesis: for whom and with what kind of results?] Huizing EH. **Ned Tijdschr Geneeskd** 1989 Sep 30;133(39):1915–7 (Dut)
[Cochlear implant—possibilities and limitations] Lehnhardt E. **Fortschr Med** 1990 Jul 30;108(22):433–6 (7 ref.) (Eng. Abstr.) (Ger)
[Cochlear Implant Mini–System 22 for the management of deaf preschool children] Lehnhardt E. **HNO** 1990 May; 38(5):161–5 (Eng. Abstr.) (Ger)
[Hearing aid selection and fitting from the pediatric audiology viewpoint] von Wedel H, et al. **HNO** 1989 Oct; 37(10):397–405 (64 ref.) (Eng. Abstr.) (Ger)
[Single channel cochlear implant: application to three patients] Gyo K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Jul;92(7):1042–8 (Eng. Abstr.) (Jpn)
[Branemark–type osteo–integrated implants for the adaptation of endosseous hearing aids] Candela Cano FA, et al. **Acta Otorrinolaringol Esp** 1990 Jan–Feb;41(1):61–4 (Eng. Abstr.) (Spa)

SURGERY

A complex case of cochlear implant electrode placement. Levine SC. **Am J Otol** 1989 Nov;10(6):477–80
Sensorineural deafness [editorial] Douek E. **BMJ** 1990 Jul 14;301(6743):74–5
Improvement in speech production following use of the UCH/RNID cochlear implant. Read TE. **J Laryngol Otol Suppl** 1989;18:45–9
Speech recognition ability as a function of duration of deafness in multichannel cochlear implant patients. Shea JJ 3d, et al. **Laryngoscope** 1990 Mar;100(3):223–6
[Cochlear implantation: clinical experience with 50 cases] Gao Y. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1989; 24(1):9–11, 62 (Eng. Abstr.) (Chi)
[Cochlear implants in patients with radical cavity] Schlöndorff G, et al. **HNO** 1989 Oct;37(10):423–5 (Eng. Abstr.) (Ger)

THERAPY

Statistical procedure for the preoperative prediction of the result of cochlear implantation. Fritze W, et al.

Br J Audiol 1989 Nov;23(4):293–7
Modifications of speech language levels by preservice educators based on language features. Schloss PJ, et al. **J Commun Disord** 1990 Apr;23(2):89–96
Deafness: diagnosis and management. Tonkin JP. **Med J Aust** 1990 Jun 18;152(12):659–63 (50 ref.)
[Initial experience with rehabilitation of patients after cochlear implants] Novák A, et al. **Cesk Otolaryngol** 1989 Jul;38(4):244–51 (Eng. Abstr.) (Cze)
[Cochlear implant: prognosis factors] Lehnhardt E. **Auris Nasus Larynx** 1989;16 Suppl 1:S1–8 (19 ref.) (Eng. Abstr.) (Ger)

VETERINARY

Hygromycin B and deaf dogs. Watson AD, et al. **Aust Vet J** 1989 Sep;66(9):302–3
Abnormal wave forms of auditory brainstem response (ABR) in two dogs. Uzuka Y, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):1083–6

DEAFNESS, PARTIAL see HEARING LOSS, PARTIAL

DEAFNESS, SENSORINEURAL see DEAFNESS

DEAFNESS, SUDDEN

[Bilateral simultaneous sudden deafness—a report of five cases] Kobayashi T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Jul;92(7):1036–41 (Eng. Abstr.) (Jpn)

DRUG THERAPY

Electronystagmographic findings and recovery of cochlear and vestibular function in patients suffering from sudden deafness with a special reference to the effect of anticoagulation. Laurikainen E, et al. **Audiology** 1989; 28(5):262–7
[Treatment of sudden deafness with the calcium antagonist nimodipine. Results of a comparative study] Lenarz T. **Laryngorhinootologie** 1989 Nov;68(11):634–7 (Eng. Abstr.) (Ger)
[Treatment of sudden deafness of vascular etiology with venoruton] Madej S. **Otolaryngol Pol** 1989;43(3):214–7 (Eng. Abstr.) (Pol)

ETIOLOGY

Sudden-onset deafness. Serodiagnosis of recent meningococcal infection. Kline MW, et al. **Clin Pediatr (Phila)** 1989 Nov;28(11):529–32
Polyarteritis nodosa presenting as bilateral sudden onset cochleo-vestibular failure in a young woman. Rowe-Jones JM, et al. **J Laryngol Otol** 1990 Jul;104(7):562–4 (14 ref.)
[Sudden deafness and Behçet's disease] Berrettini S, et al. **Acta Otorhinolaryngol Belg** 1989;43(3):221–9 (Eng. Abstr.) (Fre)
[Borderline cases of sudden deafness and so-called vestibular dysfunction] Eichhorn T, et al. **HNO** 1989 Dec; 37(12):504–10 (Eng. Abstr.) (Ger)
[What can the additional diagnosis contribute in sudden deafness?] Luckhaupt H. **Laryngorhinootologie** 1989 Nov; 68(11):632–3 (Eng. Abstr.) (Ger)
[Value and status of neurologic, serologic, internal medicine and orthopedic studies in routine diagnosis of sudden deafness] Wissen-Siegert I, et al. **Laryngorhinootologie** 1990 Mar;69(3):140–4 (Eng. Abstr.) (Ger)
[Sudden deafness associated with abnormal cerebral venous drainage. Apropos of a case] Bartual J, et al. **Acta Otorrinolaringol Esp** 1988 Jan–Feb;39(1):37–42 (Eng. Abstr.) (Spa)
[Sudden unilateral neurosensory hypoacusis] Rodríguez S, et al. **Acta Otorrinolaringol Esp** 1988 Jan–Feb;39(1):13–6 (Eng. Abstr.) (Spa)

MICROBIOLOGY

[Viral origin of postnatally acquired inner ear damage] Wilmes E, et al. **Laryngorhinootologie** 1989 Sep; 68(9):499–502 (18 ref.) (Eng. Abstr.) (Ger)

PHYSIOPATHOLOGY

[Sudden unilateral deafness and geotropic positional nystagmus—a special form of acute cochleo-vestibular disorders?] Böhmer A. **HNO** 1990 Feb;38(2):59–62 (Eng. Abstr.) (Ger)

RADIOGRAPHY

[Sudden deafness and the craniocervical transition] Hörmann K, et al. **Laryngorhinootologie** 1989 Aug;68(8):456–61 (Eng. Abstr.) (Ger)

THERAPY

[Adjuvant alternative therapy procedures in idiopathic tinnitus aurium (and in sudden deafness)] Sauer H. **Laryngorhinootologie** 1990 Feb;69(2):114–6 (Ger)

DEAMINATION

Comparative free radical chemistry in the radiolytic deamination and dephosphorylation of bio-organic molecules. II. Oxygenated solutions. Garrison WM. **Free Radic Biol Med** 1989;7(2):171–5

DEAMINO ARGININE VASOPRESSIN see DESMOPRESSIN

DEANOL see under ETHANOLAMINES

DEATH

see related
ATTITUDE TO DEATH
BEREAVEMENT
CAUSE OF DEATH
HOMICIDE
MORTUARY PRACTICE
TERMINAL CARE
THANATOLOGY

What death is like. Burch GE, et al. **Am Heart J** 1968 Sep; 76(3):438–9
Matthew XXV. LaCombe MA. **Am J Med** 1990 Sep; 89(3):363–4
A death in the family. Stephany TM. **Am J Nurs** 1990 Apr; 90(4):54–6
Exploring the multidimensional aspects of grief reactions. Vargas LA, et al. **Am J Psychiatry** 1989 Nov; 146(11):1484–8
The death instinct and the future of humans. Chessick RD. **Am J Psychother** 1989 Oct;43(4):546–61
Factors affecting place of death of hospice and non-hospice cancer patients. Moinpour CM, et al. **Am J Public Health** 1989 Nov;79(11):1549–51
Towards a definition of the dying patient: a response to Baylis. Buckman R, et al. **Can Med Assoc J** 1990 Jan 15; 142(2):155–6
Death in the fairy-tale. Heuscher JE. **Dis Nerv Syst** 1967 Jul;28(7 Pt 1):462–8
PAF-acether-induced mortality in mice: protection by benzodiazepines. Tannière-Zeller M, et al. **Drugs Exp Clin Res** 1989;15(11–12):553–8
The transition from caregiving to bereavement: the relationship of care-related strain and adjustment to death. Bass DM, et al. **Gerontologist** 1990 Feb;30(1):35–42
Kepler v. Georgia Int'l Life Ins. Co. Barkow JM. **Issues Law Med** 1989 Fall;5(2):237–8
Dying at the right time: a critical legal theory approach to timing-of-death issues. Ikuta SS. **Issues Law Med** 1989 Summer;5(1):3–66 (304 ref.)
The trajectory of dying. Functional status in the last year of life. Bortz WM 2d. **J Am Geriatr Soc** 1990 Feb; 38(2):146–50
Ultrastructural features of the neurohypophysis of reanimated rat in connection with experimentally induced clinical death lasting 15 min. A case report. Loesch A, et al. **J Hirnforsch** 1990;31(1):99–106
Still attached—thoughts on art, disease, and dying. Meadows ND Jr. **J Med Assoc Ga** 1990 May;79(5):296–7
Death [editorial; comment] Gillon R. **J Med Ethics** 1990 Mar; 16(1):3–4 Comment on: J Med Ethics 1990 Mar;16(1):5–7; discussion 8–13.
Danish ethics council rejects brain death as the criterion of death [see comments] Rix BA. **J Med Ethics** 1990 Mar; 16(1):5–7; discussion 8–13 Comment in: J Med Ethics 1990 Mar;16(1):3–4.
Grandparent deaths and severe maternal reaction in the etiology of adolescent psychopathology. Yates BT, et al. **J Nerv Ment Dis** 1989 Nov;177(11):675–80
Ethical issues in redefining death. Penticuff JH. **J Neurosci Nurs** 1990 Feb;22(1):48–9
Anencephalic infants as organ sources: should the law be changed? Yes—the law on anencephalic infants as organ sources should be changed. Walters JW. **J Pediatr** 1989 Nov;115(5 Pt 1):824–8
Anencephalic infants as organ sources: should the law be changed? No — the law on anencephalic infants as organ sources should not be changed. Winslow GR. **J Pediatr** 1989 Nov;115(5 Pt 1):824, 829–32
An ice-breaking introduction for death education. Wojtowicz GG. **J Sch Health** 1990 May;60(5):229–31
Near-death experiences [letter] **Lancet** 1989 Dec 2; 2(8675):1341
Death on the ventilator and organ donation [letter] Drummond GB. **Lancet** 1990 Aug 11;336(8711):371–2
Near-death experience [letter; comment] Gordon BD. **Lancet** 1989 Dec 16;2(8677):1452 Comment on: Lancet 1989 Nov 4;2(8671):1110–1.
Grief of an adolescent when a sibling dies. Grogan LB. **MCN** 1990 Jan–Feb;15(1):21–4
The possibility of a natural cure for death. Arenillas L. **Med Hypotheses** 1989 Oct;30(2):83–5
Neuroscience and the near-death experience: roles for the NMSA-PCP receptor, the sigma receptor and the endopsychosins. Jansen KL. **Med Hypotheses** 1990 Jan; 31(1):25–9
Mutations of mitochondrial DNA and human death. Kadenbach B, et al. **Naturwissenschaften** 1990 May; 77(5):221–5 (56 ref.)
Adolescent reactions to sibling death: perceptions of mothers, fathers, and teenagers. Hogan NS, et al. **Nurs Res** 1990 Mar-Apr;39(2):103–6
Grief in children studied [news] **Ohio Med** 1990 Feb;86(2):94
Ourselves and patients who are dying. McGuire LB. **Pharos** 1990 Winter;53(1):6–8
To challenge the chess master. McMillan JJ. **Pharos** 1990 Winter;53(1):2–5
Postmortem pink teeth phenomenon: an experimental study and a survey of the literature. Sainio P, et al. **Proc Finn Dent Soc** 1990;86(1):29–35 (16 ref.)
Are large differences in "lifesaving" costs justified? A psychometric study of the relative value placed on preventing deaths. Mendeloff JM, et al. **Risk Anal** 1989 Sep;9(3):349–63
[Death—a process or an event? (letter)] Jørgensen EO. **Ugeskr Laeger** 1990 Jan 8;152(2):113–4 (Dan)
[The distorted concept of death (letter)] Wiingaard P. **Ugeskr Laeger** 1990 Jan 22;152(4):247–8 (Dan)
[Psychosocial changes following resuscitation] Lange-Braun P, et al. **Dtsch Med Wochenschr** 1990 Feb 9;115(6):203–7 (Eng. Abstr.) (Ger)
[Patients dying in institutions. A medical and human challenge] Husebø S, et al. **Tidsskr Nor Laegeforen** 1990 Jun 30;110(17):2233–5 (Eng. Abstr.) (Nor)
[Fluctuation of energy of spectral components of the EEG signal during dying, clinical death and early period of resuscitation] Ivanov GG, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):531–3 (Eng. Abstr.) (Rus)
[The use of circular dichroism and spectrophotometric methods in establishing the time of death] Avakian NM, et al. **Sud Med Ekspert** 1989 Oct-Dec;32(4):6–8 (Eng. Abstr.) (Rus)
[The diagnostic significance of the quantitative glycogen content in cadaveric tissues in different types of death] Chistova TI. **Sud Med Ekspert** 1990 Jan-Mar;33(1):30–3 (Eng. Abstr.) (Rus)
[The mechanism of death in whole-body overheating] Kozachenko IN, et al. **Sud Med Ekspert** 1990 Apr-Jun; 33(2):20–2 (Eng. Abstr.) (Rus)
[The determination of the time of death through a complex of biophysical indices] Mel'nikov IuL, et al. **Sud Med Ekspert** 1990 Apr-Jun;33(2):5–7 (Eng. Abstr.) (Rus)
[Cathepsin activity in the myocardium and skeletal muscles as a sign of the time of death] Zharov VV, et al. **Sud Med Ekspert** 1989 Jul-Sep;32(3):38–40 (Eng. Abstr.) (Rus)
[An analysis of the debate on the concept of death as an instrument to unravel controversy] Brante T, et al. **Lakartidningen** 1990 Feb 14;87(7):462 (Swe)
[Where do we die?] Eckerdal G. **Lakartidningen** 1990 Jun 27;87(26-27):2251–2 (Swe)

DEATH CERTIFICATES

Validity of post-mortem alcohol reports. Karhunen PJ, et al. **Alcohol Alcohol** 1990;25(1):25–32
Assigning race to occupational cohorts using census block statistics. Andjelkovich DA, et al. **Am J Epidemiol** 1990 May;131(5):928–34
Re: "The question of clustering of Creutzfeldt-Jakob disease" [letter; comment] Hill C. **Am J Epidemiol** 1990 Feb; 131(2):378–9 Comment on: Am J Epidemiol 1989 Jan;129(1):146–54.
Validity of death certificates for injury-related causes of death. Moyer LA, et al. **Am J Epidemiol** 1989 Nov; 130(5):1024–32
Use of coded mortality data to assess area cancer rates: impact of residence reporting and coding errors. Williams AN, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S178–82
Occupation and industry on death certificates of long-term chemical workers: concordance with work history records. Olsen GW, et al. **Am J Ind Med** 1990;17(4):465–81
Sentinel Health Events (Occupational): analysis of death certificates among residents of Nassau County, NY between 1980–82 for occupationally related causes of death [published erratum appears in Am J Public Health 1990 Sep;80(9):1137] Feldman JP, et al. **Am J Public Health** 1990 Feb;80(2):158–61
Misclassification of childhood homicide on death certificates. Lapidus GD, et al. **Am J Public Health** 1990 Feb; 80(2):213–4
Comments from NCHS/Rosenberg [letter] Rosenberg HM. **Am J Public Health** 1990 Jun;80(6):752
Quality of death certificates: studying or burying? [letter; comment] Salmi LR, et al. **Am J Public Health** 1990 Jun; 80(6):751–2 Comment on: Am J Public Health 1989 Oct;79(10):1349–50.
A computerized analysis of matched infant death and birth certificates. Pelto JM. **Arctic Med Res** 1988;47 Suppl 1:529–31
Decline of acute myocardial infarction death rates not due to cause of death coding. Guibert RL, et al. **Can J Public Health** 1989 Nov-Dec;80(6):418–22
Medical certification of cause of death in the General Hospital, Colombo. Fernando R. **Ceylon Med J** 1990 Jun; 35(2):71–4
Accuracy of death certificates and mortality statistics in Victorian testis cancer deaths 1950–1977. Stone JM, et al. **Community Health Stud** 1990;14(1):54–60
Autopsies and death certificates in the chronic care setting. Gloth FM 3d, et al. **J Am Geriatr Soc** 1990 Feb;38(2):151–5
Contrasts in the multiple causes of stillbirth, neonatal death and postneonatal death. Murphy M, et al. **J Epidemiol Community Health** 1989 Dec;43(4):343–5
Murder most foul. Something is rotten in the state of North Carolina. Goldstein J. **N C Med J** 1990 May;51(5):230–4;

discussion 236–7
Evaluation of a regionalized perinatal care system through linked infant birth and death certificates: Puerto Rico 1980–84. Becerra JE, et al. **P R Health Sci J** 1989 Dec; 8(3):305–11
International comparability of coding cancer data: present state and possible improvement by ICD–10. Percy C. **Recent Results Cancer Res** 1989;114:240–52
The effect of death certification practice on recorded national asthma mortality rates. Burney PG. **Rev Epidemiol Sante Publique** 1989;37(4):385–9
Life after death—mortality statistics and the public health. Kielkowski D, et al. **S Afr Med J** 1989 Dec 16;76(12):672–5
Limited autopsies to improve the accuracy of death certificates [letter] Steenekamp JH, et al. **S Afr Med J** 1989 Oct 21;76(8):450
Certification of death. Chao TC. **Singapore Med J** 1990 Apr; 31(2):162–5
Certification change versus actual behavior change in teenage suicide rates, 1955–1979. Gist R, et al. **Suicide Life Threat Behav** 1989 Fall;19(3):277–88
Certification of death. Reay DT. **Trans Assoc Life Insur Med Dir Am** 1990;73:155–64
Death certification. Purposes, procedures, and pitfalls. Klatt EC, et al. **West J Med** 1989 Sep;151(3):345–7
[The Central Bureau for Statistics: the burial place of our cases of death (letter)] Molleman G. **Ned Tijdschr Geneeskd** 1989 Dec 2;133(48):2409–10 (Dut)
[Validity of death certificates in the study of ischemic heart diseases] Nuttens MC, et al. **Presse Med** 1990 Jun 16; 19(24):1143–6 (Eng. Abstr.) (Fre)
[Autopsy findings and pathologic-anatomic epicrisis] Hecht A. **Pathologe** 1990 Jul;11(4):197–200 (20 ref.) (Ger)
[Quality control in medicine. Analysis of death certificate entries with a personal computer] Schneider E, et al. **Zentralbl Allg Pathol** 1989;135(7):695–7 (Eng. Abstr.) (Ger)
[Problems in the documentation of autopsy findings on death certificates for stillborn babies and deaths of babies under one year of age] Zschoch H, et al. **Zentralbl Allg Pathol** 1989;135(7):689–94 (Eng. Abstr.) (Ger)
[The anatomo-pathologist as a necroscopy physician in the field: a balance-sheet of 4 years' experience] Galli C, et al. **Epidemiol Prev** 1989 Jun;11(39):41–6 (Eng. Abstr.) (Ita)
[Analysis of the completion of death certificates in a locality of the State of Rio Grande do Sul (Brazil), 1987] Heckmann IC, et al. **Rev Saude Publica** 1989 Aug;23(4):292–7 (Eng. Abstr.) (Por)
[Reliability of data on the major causes of death] Egnerová A, et al. **Cesk Zdrav** 1989 Dec;37(12):526–34 (Eng. Abstr.) (Slo)
[The cause of death: errors in the death certificate] Villar J. **Med Clin (Barc)** 1989 Oct 21;93(12):463–6 (24 ref.) (Spa)
[Integrity of the death records and problems of information transcription in 8 states of the Mexican Republic] Crevenna-Horney PB, et al. **Salud Publica Mex** 1989 Sep–Oct;31(5):591–600 (Eng. Abstr.) (Spa)

HISTORY

[Cases of unusual deaths in the registry of Hont County in the years 1750–1759] Kiss L. **Orv Hetil** 1990 Apr 22; 131(16):869–70 (Hun)

LEGISLATION & JURISPRUDENCE

Alcohol and death certification: influencing current practice and attitudes. Bell G, et al. **Br J Addict** 1989 Dec; 84(12):1523–5
Legal and ethical matters. Palmer K. **Practitioner** 1989 Apr 8;233(1466):500–1
[Cause od death statistics and death certificate documentation. 1. Historical development of cause of death statistics of fetal death, infants and children and current regulations in the GDR] Zschoch H. **Kinderarztl Prax** 1989 Aug;57(8):387–91 (Eng. Abstr.) (Ger)
[Cause of death statistics and death certificate documentation of stillborn infants and infants. II: Preventable errors in filling out death certificates for stillborn infants and for infants dying before 1 year of age] Zschoch H. **Kinderarztl Prax** 1989 Sep;57(9):457–65 (Eng. Abstr.) (Ger)
[Experiences of forensic medicine with death in foreign travel] Haarhoff K, et al. **Versicherungsmedizin** 1990 Aug 1;42(4):115–7 (Eng. Abstr.) (Ger)
[Required recording of concomitant diseases on death certificates] Zahradka W. **Z Arztl Fortbild (Jena)** 1989; 83(14):735–6 (Ger)
[Documentation of the death certificate for stillborn infants/infants dying before 1 year of age] Zschoch H, et al. **Z Gesamte Hyg** 1989 Jul;35(7):393–5 (Eng. Abstr.) (Ger)

DEATH PENALTY see **CAPITAL PUNISHMENT**

DEATH RATE see **MORTALITY**

DEATH, SUDDEN

see related
RESUSCITATION

Effect of quinidine or procainamide versus no antiarrhythmic drug on sudden cardiac death, total cardiac death, and total death in elderly patients with heart disease and complex ventricular arrhythmias. Aronow WS, et al. **Am J Cardiol** 1990 Aug 15;66(4):423–8
Prevention of sudden cardiac death. Dunn FG. **Cardiovasc Clin** 1990;20(3):95–109 (62 ref.)
VT and sudden death in HCM patients [letter] Fananapazir L, et al. **Circulation** 1989 Dec;80(6):1923
Sudden cardiac death: definition and management of high-risk patients. An international symposium. Anaheim, California, November 15, 1987. Proceedings. **Clin Cardiol** 1988 Mar;11(3 Suppl 2):II1–45
Definition of patients at high risk of sudden arrhythmic cardiac death. Greene HL. **Clin Cardiol** 1988 Mar;11(3 Suppl 2):II5–16
Noninvasive assessment and management of the patient at high risk of sudden cardiac death. McKenna WJ. **Clin Cardiol** 1988 Mar;11(3 Suppl 2):II22–5
Protective actions of a new potent thromboxane receptor antagonist in arachidonate induced sudden death. Liao P, et al. **Eicosanoids** 1989;2(1):33–7
Management of survivors of cardiac arrest: is electrophysiologic testing obsolete in the era of implantable defibrillators? [comment] Kim SG. **J Am Coll Cardiol** 1990 Sep;16(3):756–62 (48 ref.) Comment on: J Am Coll Cardiol 1990 Sep;16(3):657–65.
Profibrillatory actions of pinacidil in a conscious canine model of sudden coronary death. Chi L, et al. **J Cardiovasc Pharmacol** 1990 Mar;15(3):452–64
Antiarrhythmic and electrophysiologic actions of CK–3579 and sematilide in a conscious canine model of sudden coronary death. Chi LG, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):312–24
Effects of combined thromboxane synthetase inhibition/thromboxane receptor antagonism in two models of sudden cardiac death in the canine: limited role for thromboxane. Kitzen JM, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):68–80
V.A. Cooperative Study of antiplatelet agents in diabetic patients after amputation for gangrene: unobserved, sudden, and unexpected deaths. Colwell JA, et al. **J Diabetic Complications** 1989 Oct–Dec;3(4):191–7
Unexpected death as a result of infective endocarditis. Cohle SD, et al. **J Forensic Sci** 1989 Nov;34(6):1374–86
Athletics and danger [editorial] Smith SZ. **J Ky Med Assoc** 1990 Jun;88(6):305
Prevention of sudden cardiac death: lessons from the cardiac arrhythmia suppression trial (CAST). Schlant RC. **J Med Assoc Ga** 1990 Apr;79(4):245–7
Out-of-hospital sudden cardiac death following myocardial infarction in urban population. Ishida K, et al. **Jpn Circ J** 1990 Apr;54(4):422–7
Value of the signal-averaged electrocardiogram as a predictor of sudden death in myocardial infarction and dilated cardiomyopathy. Ohnishi Y, et al. **Jpn Circ J** 1990 Feb;54(2):127–36
Sudden cardiac death [letter; comment] **N Engl J Med** 1990 Jan 25;322(4):271–3 Comment on: N Engl J Med 1989 Aug 3;321(5):320–4.
Abnormal respiration and sudden death during sleep in multiple system atrophy with autonomic failure. Munschauer FE, et al. **Neurology** 1990 Apr;40(4):677–9
The use of signal-averaged electrocardiography in predicting patients at high risk for sudden death. Seale WL, et al. **PACE** 1990 Jun;13(6):796–807 (49 ref.)
Signal-averaged electrocardiography. Promising tool for predicting sudden cardiac death. Rotche RM, et al. **Postgrad Med** 1990 Apr;87(5):123–4, 127–8
Components of hostility as predictors of sudden death and myocardial infarction in the Multiple Risk Factor Intervention Trial. Dembroski TM, et al. **Psychosom Med** 1989 Sep–Oct;51(5):514–22
Sudden fatal cardiac arrest in a child with an unrecognized anterior mediastinal mass. Yamashita M, et al. **Resuscitation** 1990 Apr;19(2):175–7
[Effect of cicletanine on a sudden death model in dogs] Guillon JM, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:151–4 (Eng. Abstr.) (Fre)
[Alcohol consumption in males with sudden unexpected death in Helsinki] Penttilä A, et al. **Beitr Gerichtl Med** 1989; 47:361–8 (Eng. Abstr.) (Ger)
[Can sudden cardiac death be prevented by treatment with anti-arrhythmia drugs?] Zrenner B, et al. **Herz** 1990 Apr; 15(2):90–102 (81 ref.) (Eng. Abstr.) (Ger)
[Forensic and medical insurance aspects of medically unexpected sudden death] Janssen W. **Nippon Hoigaku Zasshi** 1989 Oct;43(5):377–83 (Ger)
[Roentgenologic heart volume determination for the diagnosis of fatal heart failure] Schmidt G, et al. **Z Rechtsmed** 1990;103(3):155–62 (Eng. Abstr.) (Ger)
[A histochemical study of enzyme activity in the myocardium of victims of sudden death with small-focal cardiosclerosis] Cherpachenko NM, et al. **Arkh Patol** 1989;51(9):10–3 (Eng. Abstr.) (Rus)
[ECG spectral analysis in quick death, during clinical death, and in the early postresuscitation period] Ivanov GG, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):42–5 (Eng. Abstr.) (Rus)
[The automatic implantable defibrillator is an established preventive method against sudden cardiac death] Sandstedt B, et al. **Lakartidningen** 1989 Dec 13;86(50):4413 (Swe)

EPIDEMIOLOGY

Geographic variation in sudden coronary death. Gillum RF. **Am Heart J** 1990 Feb;119(2 Pt 1):380–9
Nontraumatic prehospital cardiac arrest ages 1 to 39 years. Ng AY, et al. **Am J Emerg Med** 1990 Mar;8(2):87–91
Travel, time zones, and sudden cardiac death. Emporiatric pathology. Couch RD. **Am J Forensic Med Pathol** 1990 Jun;11(2):106–11
Gender difference in the risk factors for sudden cardiac death. Dahlberg ST. **Cardiology** 1990;77 Suppl 2:31–40 (45 ref.)
Anatomic substrate differences between black and white victims of sudden cardiac death: hypertension, coronary artery disease, or both? Clark LT. **Clin Cardiol** 1989 Dec; 12(12 Suppl 4):IV13–7
Long-term prognosis in children with hypertrophic cardiomyopathy: an analysis of 37 patients aged less than or equal to 14 years at diagnosis. Romeo F, et al. **Clin Cardiol** 1990 Feb;13(2):101–7
Sudden cardiac death. DiMarco JP, et al. **Curr Probl Cardiol** 1990 Apr;15(4):183–232 (143 ref.)
Reproductive history of women dying of sudden cardiac death: a case-control study. Talbott EO, et al. **Int J Epidemiol** 1989 Sep;18(3):589–94
Long-term follow-up of medically treated patients with coronary artery disease—II. Unstable angina pectoris, asymptomatic periods, and sudden unexpected cardiac events. Hosoda S, et al. **Jpn Circ J** 1990 Mar;54(3):241–8
An epidemiologic and histopathological study of sudden cardiac death in Osaka Medical Examiner's Office. Matoba R, et al. **Jpn Circ J** 1989 Dec;53(12):1581–8
Sudden cardiac death in childhood. Niimura I, et al. **Jpn Circ J** 1989 Dec;53(12):1571–80
Death from myocardial infarction: what are the benefits of early arrival at hospital and thrombolysis? Heller RF, et al. **Med J Aust** 1990 Mar 19;152(6):301–4
Effects of the summer heat wave of 1988 on daily mortality in Allegheny County, PA. Ramlow JM, et al. **Public Health Rep** 1990 May–Jun;105(3):283–9
[An epidemiological study on coronary sudden death in Beijing] Li N. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):1–4 (Eng. Abstr.) (Chi)
[The chronobiology of sudden cardiac death. The evidence for a circadian, circaseptimanal and circannual periodicity in its incidence] Pasqualetti P, et al. **Minerva Med** 1990 May;81(5):391–8 (Eng. Abstr.) (Ita)
[A prospective study of future cardiac events in subjects who underwent treadmill exercise testing] Sato I. **Hokkaido Igaku Zasshi** 1989 Nov;64(6):749–60 (Eng. Abstr.) (Jpn)
[Out-of-hospital sudden cardiac death: a comparative study spanning 10 years] Ishida K, et al. **J Cardiol** 1989 Sep; 19(3):765–73 (Eng. Abstr.) (Jpn)
[Sudden cardiac death in the emergency hospital] Goto T, et al. **Kokyu To Junkan** 1990 Jul;38(7):665–70 (Eng. Abstr.) (Jpn)
[Sudden death from coronary thrombosis and myocardial infarct correlated with blood alcohol] Hecser L, et al. **Rev Med Interna [Med Interna]** 1989 Nov–Dec; 41(6):551–61 (Eng. Abstr.) (Rum)

ETHNOLOGY

Sudden nocturnal deaths among Thai construction workers in Singapore [letter] Goh KT, et al. **Lancet** 1990 May 12; 335(8698):1154
Thiamine and sudden death in sleep of South-East Asian refugees [letter] Munger RG, et al. **Lancet** 1990 May 12; 335(8698):1154–5
Thiamine and sudden death in South-East Asians [letter] Thurnham DI. **Lancet** 1990 Jun 16;335(8703):1472

ETIOLOGY

Sudden unexpected death in young athletes: a review. Christensen RE. **Alaska Med** 1989 Jul–Dec;31(4):144–7 (16 ref.)
Control of multiform ventricular tachycardia by propranolol in a child with no identifiable cardiac disease and sudden death. de Paola AA, et al. **Am Heart J** 1990 Jun; 119(6):1429–32
Association of bidirectional ventricular tachycardia with familial sudden death syndrome. Cohen TJ, et al. **Am J Cardiol** 1989 Nov 1;64(16):1078–9
Sudden cardiac death associated with exercise: the risk-benefit issue. Friedewald VE Jr, et al. **Am J Cardiol** 1990 Jul 15;66(2):183–8
Sudden arrhythmic cardiac death—mechanisms, resuscitation and classification: the Seattle perspective. Greene HL. **Am J Cardiol** 1990 Jan 16;65(4):4B–12B (61 ref.)
Short- and long-term mechanisms of sudden cardiac death in congestive heart failure. Helfant RH. **Am J Cardiol** 1990 Jun 19;65(23):41K–43K
Prognostic significance of sustained monomorphic ventricular tachycardia induced by programmed ventricular stimulation using up to triple extrastimuli in survivors of acute myocardial infarction. Iesaka Y, et al. **Am J Cardiol** 1990 May 1;65(16):1057–63

Sudden cardiac death: a diversity of causes with focus on atherosclerotic coronary artery disease. Roberts WC. **Am J Cardiol** 1990 Jan 16;65(4):13B–19B (36 ref.)

Long-term predictors of sudden and low output death in chronic congestive heart failure secondary to coronary artery disease. Rockman HA, et al. **Am J Cardiol** 1989 Dec 1;64(19):1344–8

In the shadow of the Baron: sudden death due to Munchausen syndrome. Nichols GR 2d, et al. **Am J Emerg Med** 1990 May;8(3):216–9

Sudden asphyxic asthma: a distinct entity? Wasserfallen JB, et al. **Am Rev Respir Dis** 1990 Jul;142(1):108–11

Acute viral myocarditis. A death associated with anaesthesia. Brampton WJ, et al. **Anaesthesia** 1990 Mar;45(3):215–7

Sudden death as sole symptom of coronary arteritis. Paul RA, et al. **Ann Med** 1990 Jun;22(3):161–2

Sudden death in asthma. Zach MS, et al. **Arch Dis Child** 1989 Oct;64(10):1446–50; discussion 1450–1

Sudden death in young people due to hypertrophic cardiomyopathy. Gourdie AL, et al. **Arch Emerg Med** 1989 Sep;6(3):220–4

Hypoglycemic coma in anorexia nervosa. Case report and review of the literature. Rich LM, et al. **Arch Intern Med** 1990 Apr;150(4):894–5 (23 ref.)

Cerebrogenic cardiac arrhythmias. Cerebral electrocardiographic influences and their role in sudden death. Oppenheimer SM, et al. **Arch Neurol** 1990 May; 47(5):513–9 (104 ref.)

Wilms' tumor presenting as sudden death due to tumor embolism. Zakowski MF, et al. **Arch Pathol Lab Med** 1990 Jun;114(6):605–8

Aortic root triangulation as a cause of sudden death. Sagar PM, et al. **Biomed Pharmacother** 1989;43(5):381–4

Death after flumazenil [letter; comment] Birch BR, et al. **BMJ** 1990 Feb 17;300(6722):467–8 Comment on: BMJ 1989 Sep 30;299(6703):858–9.

Sudden death after treatment with pulsed methylprednisolone. Gardiner PV, et al. **BMJ** 1990 Jan 13;300(6717):125

Fatal vasculitis associated with ofloxacin. Pace JL, et al. **BMJ** 1989 Sep 9;299(6700):658

Silent ischaemia and vigorous exercise [letter] Hartvig Jensen T, et al. **Br J Sports Med** 1989 Jun;23(2):133–4

Sudden unexpected death in children with congenital heart disease. Thornback P, et al. **Can Med Assoc J** 1975 Oct 18;113(8):745–6, 748

Is the mitral valve prolapse patient at high risk of sudden death identifiable? Kligfield P, et al. **Cardiovasc Clin** 1990; 21(1):143–57; discussion 158–60 (71 ref.)

Unexpected, unexplained sudden death in young asthmatic subjects. Robin ED, et al. **Chest** 1989 Oct;96(4):790–3

Incidence of sudden cardiac death associated with coronary artery occlusion in dogs with hypertension and left ventricular hypertrophy is reduced by chronic beta-adrenergic blockade. Dellsperger KC, et al. **Circulation** 1990 Sep;82(3):941–50

Toward a new understanding of the mechanism and prevention of sudden death in coronary heart disease. Goldstein S. **Circulation** 1990 Jul;82(1):284–8 (53 ref.)

Can serial exercise testing improve the prediction of coronary events in asymptomatic individuals? Josephson RA, et al. **Circulation** 1990 Jan;81(1):20–4

Sudden cardiac death in children [comment] Klitzner TS. **Circulation** 1990 Aug;82(2):629–32 (42 ref.) Comment on: Circulation 1990 Aug;82(2):341–9.

Sudden death in hypertrophic cardiomyopathy. Assessment of patients at high risk. McKenna WJ, et al. **Circulation** 1989 Nov;80(5):1489–92

Sudden death after repair of double-outlet right ventricle. Shen WK, et al. **Circulation** 1990 Jan;81(1):128–36

Assessment and follow-up of pediatric survivors of sudden cardiac death [see comments] Silka MJ, et al. **Circulation** 1990 Aug;82(2):341–9 Comment in: Circulation 1990 Aug;82(2):629–32.

Sudden coronary death. Warnes CA. **Clin Cardiol** 1989 Dec; 12(12):717–22

Sudden death from choroid plexus vascular malformation hemorrhage: case report and review of the literature. van Rybroek JJ, et al. **Clin Neuropathol** 1990 Jan–Feb; 9(1):39–45 (34 ref.)

Heart rate and metabolic response to competitive squash in veteran players: identification of risk factors for sudden cardiac death. Brady HR, et al. **Eur Heart J** 1989 Nov; 10(11):1029–35

Deficiency of the alpha and beta subunits of pyruvate dehydrogenase in a patient with lactic acidosis and unexpected sudden death. Sperl W, et al. **Eur J Pediatr** 1990 Apr;149(7):487–92 (34 ref.)

Fatal asthma in a young patient with severe bronchial hyperresponsiveness but stable peak flow records. Saetta M, et al. **Eur Respir J** 1989 Nov;2(10):1008–12

Sudden unexpected death due to familial hypertrophic obstructive cardiomyopathy. Fernando R. **Forensic Sci Int** 1990 Jul;46(3):285–8

Ostial stenosis of the left coronary artery as a sole clinical manifestation of Takayasu's arteritis: a possible cause of unexpected sudden death. Seguchi M, et al. **Heart Vessels** 1990;5(3):188–91

Hypertension as a risk factor for sudden cardiac death and nonfatal myocardial infarction. Working Group of CNR Study OD1. Brunelli C, et al. **Herz** 1990 Feb;15(1):54–8

The heart in hypertension and arrhythmias. Widimský J, et al. **Herz** 1990 Feb;15(1):49–53 (42 ref.)

The relationship between growth of atherosclerotic plaques, variant angina and sudden death. Corrado D, et al. **Int J Cardiol** 1990 Mar;26(3):361–7

Two cases of sudden death by rupture of traumatic and bacterial aneurysms. Feldges A, et al. **Intensive Care Med** 1989;15(6):400–2

Etiology of sudden death in healthy active subjects [comment] Keren G. **Isr J Med Sci** 1989 Nov;25(11):607–9 (29 ref.) Comment on: Isr J Med Sci 1989 Nov;25(11):620–4.

Sudden death in young Israeli soldiers. Analysis of 83 cases [see comments] Kramer MR, et al. **Isr J Med Sci** 1989 Nov;25(11):620–4 Comment in: Isr J Med Sci 1989 Nov;25(11):607–9.

Syncope and sudden death in hypertrophic cardiomyopathy [comment] Brandenburg RO. **J Am Coll Cardiol** 1990 Apr; 15(5):962–4 Comment on: J Am Coll Cardiol 1990 Apr;15(5):948–55. Comment on: J Am Coll Cardiol 1990 Apr;15(5):956–61.

John MacWilliam, evolutionary biology and sudden cardiac death. de Silva RA. **J Am Coll Cardiol** 1989 Dec; 14(7):1843–9

The role of silent ischemia, the arrhythmic substrate and the short–long sequence in the genesis of sudden cardiac death. Gomes JA, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1618–25

Sudden death due to isolated acute infarction of the His bundle. James TN, et al. **J Am Coll Cardiol** 1990 Apr; 15(5):1183–7

Silent ischemia, ventricular arrhythmia and sudden cardiac death [editorial; comment] Podrid PJ. **J Am Coll Cardiol** 1990 Jul;16(1):55–6 Comment on: J Am Coll Cardiol 1990 Jul;16(1):49–54.

Relation between extent of left ventricular hypertrophy and occurrence of sudden cardiac death in hypertrophic cardiomyopathy. Spirito P, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1521–6

Sudden death following accidental ingestion of chlormequat. Winek CL, et al. **J Anal Toxicol** 1990 Jul–Aug;14(4):257–8

Seasonal variation in sudden cardiac death after experimental myocardial infarction. Scherlag BJ, et al. **J Electrocardiol** 1990 Jul;23(3):223–30

Sudden death after telephone ringing [letter] Wrobel N. **J Emerg Med** 1990 Jan–Feb;8(1):99

Thrombotic thrombocytopenic purpura causing sudden, unexpected death—a series of eight patients. Bell MD, et al. **J Forensic Sci** 1990 May;35(3):601–13

Sudden death due to fibromuscular dysplasia of the sinoatrial nodal artery. Nichols GR 2d, et al. **J Ky Med Assoc** 1989 Oct;87(10):504–5

Possible role of spinal joint dysfunction in the genesis of sudden cardiac death. Jarmel ME. **J Manipulative Physiol Ther** 1989 Dec;12(6):469–77 (127 ref.)

Sudden death in rheumatoid arthritis from vertical subluxation of the odontoid process. Parish DC, et al. **J Natl Med Assoc** 1990 Apr;82(4):297–9, 302–4

Sudden death in childhood and adolescence. Keeling JW, et al. **J Pathol** 1989 Nov;159(3):221–4

When does death occur in an acardiac twin? Ultrasound diagnostic difficulties. Fusi L, et al. **J Perinat Med** 1990; 18(3):223–7

Cocaine-mediated impairment of cardiac conduction in the dog: a potential mechanism for sudden death after cocaine. Kabas JS, et al. **J Pharmacol Exp Ther** 1990 Jan; 252(1):185–91

Psychophysiological factors in ventricular arrhythmias and sudden cardiac death. Hatton DC, et al. **J Psychosom Res** 1989;33(5):621–31

Sudden death after spontaneous ventricular fibrillation: case reports. Bethell HJ. **J R Coll Gen Pract** 1989 Apr; 39(321):158–9

Cardiac dysfunction during seizures and the sudden epileptic death syndrome. Oppenheimer S. **J R Soc Med** 1990 Mar; 83(3):134–6 (18 ref.)

Mechanism and prediction of sudden cardiac death in arrhythmia patients using electrophysiological studies. Kasanuki H, et al. **Jpn Circ J** 1989 Dec;53(12):1565–70

A survey of sudden death among school children in Osaka Prefecture. Kitada M, et al. **Jpn Circ J** 1990 Apr; 54(4):401–11

Sudden death in hypertrophic and dilated cardiomyopathy. Koga Y, et al. **Jpn Circ J** 1989 Dec;53(12):1546–56

Clinical characteristics of sudden cardiac death in patients with vasospastic angina. Koyanagi S, et al. **Jpn Circ J** 1989 Dec;53(12):1541–5

Long-term prognostic assessment of ventricular tachycardia with respect to sudden death in patients with and without overt heart disease. Tanabe T, et al. **Jpn Circ J** 1989 Dec; 53(12):1557–64

Sudden death and epilepsy [letter] Brown SW, et al. **Lancet** 1990 Mar 10;335(8689):606–7

Thiamine deficiency and sudden deaths [letter] Lonsdale D. **Lancet** 1990 Aug 11;336(8711):376

Potassium and sudden unexplained nocturnal death [letter] Nimmannit S, et al. **Lancet** 1990 Jul 14;336(8707):116–7

Thiamine deficiency and sudden deaths: lessons from the past [letter] Phua KH, et al. **Lancet** 1990 Jun 16; 335(8703):1471–2

Pseudomonas pseudomallei and sudden unexplained death in Thai construction workers [letter] Yap EH, et al. **Lancet** 1990 Aug 11;336(8711):376–7

Endothelin-induced sudden death and the possible involvement of platelet activating factor (PAF). Terashita Z, et al. **Life Sci** 1989;45(20):1911–8

A tragic case of snake bite [letter] Hilton JM. **Med J Aust** 1989 Nov 20;151(10):600–1

Sudden death in young Aboriginal adults with rheumatic heart disease. Norton R. **Med J Aust** 1990 Aug 6; 153(3):162–4

Sudden death in children treated with a tricyclic antidepressant. **Med Lett Drugs Ther** 1990 Jun 1;32(819):53

Sudden neurologic death after intrathecal methotrexate. Shore T, et al. **Med Pediatr Oncol** 1990;18(2):159–61

Pulmonary vascular occlusive disease presenting as sudden death. Bolster MA, et al. **Med Sci Law** 1990 Jan;30(1):26–8

Sudden death in Air Force recruits [letter] Kollef MH. **Milit Med** 1990 Mar;155(3):A7

Sudden death in a young woman: pulmonary thrombosis and adenocarcinoma of the lung. Nair GP, et al. **Milit Med** 1990 Feb;155(2):62–4

Sarcoid myocarditis: a report of three cases. Temple-Camp CR. **N Z Med J** 1989 Sep 27;102(876):501–2

[An investigation of sudden cardiac death in apparently healthy young men by annual health examination. Kurita A, et al. **Nippon Eiseigaku Zasshi** 1989 Aug;44(3):739–47

Sudden unexpected death from a superior mesenteric venous thrombosis after a gastrectomy. Ikeda N, et al. **Nippon Hoigaku Zasshi** 1989 Aug;43(4):328–31

Initial accumulation of paraquat in the heart leading to acute death. Noguchi N, et al. **Nippon Hoigaku Zasshi** 1990 Feb; 44(1):6–11

Sinus node dysfunction and sudden cardiac death following treatment with encainide. Lemery R, et al. **PACE** 1989 Oct;12(10):1607–12

Pulmonary arterial dissections and ruptures: to be considered in patients with pulmonary arterial hypertension presenting with cardiogenic shock or sudden death. Walley VM, et al. **Pathology** 1990 Jan;22(1):1–4

Sudden death in children and young adults. Denfield SW, et al. **Pediatr Clin North Am** 1990 Feb;37(1):215–31 (56 ref.)

Acute phase management of myocardial infarction. Davies M. **Practitioner** 1989 Apr 8;233(1466):483–5

Stress and the heart: biobehavioral aspects of sudden cardiac death. Frank C, et al. **Psychosomatics** 1990 Summer; 31(3):255–64 (75 ref.)

Sudden death from primary lung abscess in middle-aged diabetic men—two case reports. Lim TK, et al. **Singapore Med J** 1989 Feb;30(1):102–4

Sudden death from cord compression associated with atlanto-axial instability in rheumatoid arthritis. A case report. Yaszemski MJ, et al. **Spine** 1990 Apr;15(4):338–41

The problem of sudden death in athletes as illustrated by case studies. Sadaniantz A, et al. **Sports Med** 1990 Apr; 9(4):199–204 (33 ref.)

Death following suspected alprazolam withdrawal seizures: a case report. Haque W, et al. **Tex Med** 1990 Jan;86(1):44–7

Exercise and sudden cardiac death: is the run worth the risk? Siscovick DS. **Trans Assoc Life Insur Med Dir Am** 1990; 73:37–44 (12 ref.)

Sudden cardiac death caused by coronary ostial compression by an aneurysm of the sinus of Valsalva. Henry RE, et al. **West Indian Med J** 1989 Dec;38(4):250–2

Relationship between coronary atherosclerosis and "sudden cardiac death". Effects of age and calcium blockers in hypercholesterolemic mini-pigs. Lundholm CE, et al. **Zentralbl Allg Pathol** 1989;135(6):565–76

[A case of clinical death during laparoscopy] Kichukova D, et al. **Akush Ginekol (Sofiia)** 1989;28(4):86–7 **(Bul)**

[Sudden death due to undiagnosed congenital laryngeal cyst] Vanhoucke F, et al. **Acta Otorhinolaryngol Belg** 1989; 43(2):125–9 (Eng. Abstr.) **(Dut)**

[An unexpected complication of exercise test studies (letter)] den Ottolander GJ. **Ned Tijdschr Geneeskd** 1990 Mar 31; 134(13):669 **(Dut)**

[An unexpected complication of exercise testing] Nierop P, et al. **Ned Tijdschr Geneeskd** 1990 Jan 20;134(3):130–3 (Eng. Abstr.) **(Dut)**

[Causes of sudden death in athletes] Fontaine G, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:107–11 (Eng. Abstr.) **(Fre)**

[Sudden death in young athletes] Sternon J, et al. **Rev Med Brux** 1990 May;11(5):156–61 (24 ref.) (Eng. Abstr.) **(Fre)**

[Sudden death in athletes] Jaeger M. **Rev Med Suisse Romande** 1990 Feb;110(2):155–9 (15 ref.) **(Fre)**

[The risk of sudden death in sports practice—can it be diagnosed and reduced?] Jaeger M. **Schweiz Z Sportmed** 1989 Dec;37(4):207–17 (52 ref.) (Eng. Abstr.) **(Fre)**

[Arrhythmia. Sudden death: a multifactorial pathogenesis that is still a mystery (interview with Dr. Gilles Dagenais)] Dagenais G. **Union Med Can** 1990 Mar–Apr;119(2):73–4; 79–80 **(Fre)**

[Etiology of sudden death of cardiac origin] Puech P. **Union Med Can** 1990 Mar–Apr;119(2):81 **(Fre)**

[Noninvasive versus invasive procedure in patients with life threatening tachyarrhythmias] Andresen D. **Herz** 1990 Feb; 15(1):42–8 (43 ref.) (Eng. Abstr.) **(Ger)**

[What is the value of high resolution electrocardiography in the identification of patients at risk?] Hombach V, et al. **Herz** 1990 Feb;15(1):28–41 (Eng. Abstr.) **(Ger)**

[Left ventricular function: significance for the development

of malignant arrhythmia and sudden heart death] Bethge KP. **Internist (Berl)** 1990 Mar;31(3 Suppl [Anniv No TIARRH):3–5 (Ger)

[Death in an epileptic seizure] Wiese J, et al. **Versicherungsmedizin** 1990 Aug 1;42(4):113–5 (Eng. Abstr.) (Ger)

[The significance of ventricular tachycardia morphology for prognosis and follow-up] Trappe HJ, et al. **Z Kardiol** 1989 Oct;78(10):633–9 (Eng. Abstr.) (Ger)

[Acute cardiac death in chronic-ischemic heart disease (CIHD)] Breitfellner G. **Zentralbl Allg Pathol** 1989; 135(6):553–9 (39 ref.) (Eng. Abstr.) (Ger)

[Syncope in patients with Wolff-Parkinson-White syndrome: clinical data, electrophysiologic substrate and prognostic value] Auricchio A, et al. **Cardiologia** 1989 Oct; 34(10):879–84 (Eng. Abstr.) (Ita)

[Study of lethal arrhythmias using Holter ECG monitoring] Hata Y. **Fukuoka Igaku Zasshi** 1990 Apr;81(4):170–85 (Eng. Abstr.) (Jpn)

[Hypertrophic cardiomyopathy—examination findings, family histories and results of close examinations of a family in two autopsied cases] Tatsuno Y, et al. **Nippon Hoigaku Zasshi** 1989 Dec;43(6):502–10 (Eng. Abstr.) (Jpn)

[Experimental studies on stress hormones at the time of sudden death (II)—Differences in adrenocortical hormone levels of cardiac arrest-preceding type and apnea preceding type sudden death under cerebral ischemia or aortic stenosis] Tsunoda K, et al. **Nippon Hoigaku Zasshi** 1989 Dec;43(6):453–9 (Eng. Abstr.) (Jpn)

[A case of sudden death from massive hematemesis due to rupture of an atherosclerotic aneurysm into the esophagus] Takata T, et al. **Rinsho Hoshasen** 1990 Feb;35(2):309–11 (Eng. Abstr.) (Jpn)

[Sudden death risk factors in patients with hypertrophic cardiomyopathy] Dąbrowski M, et al. **Kardiol Pol** 1989; 32(2):57–65 (Eng. Abstr.) (Pol)

[A case of death after drinking of alcoholic solution of formalin] Miler W. **Med Pr** 1989;40(3):199–200 (Pol)

[Sudden death in attacks of dyspnea in patients with bronchial asthma] Szmidt M, et al. **Pol Arch Med Wewn** 1989 Jan; 81(1):53–6 (29 ref.) (Pol)

[Difficulties in establishing the cause of sudden death of a 2-year-old child with thymus hyperplasia] Molenda R, et al. **Wiad Lek** 1989 Aug 15–Sep 15;42(16–18):988–90 (Eng. Abstr.) (Pol)

[Arrhythmia and sudden death in congestive heart insufficiency] Tuna JL. **Rev Port Cardiol** 1989 Sep; 8(9):637–44 (31 ref.) (Eng. Abstr.) (Por)

[Uncommon mechanisms of sudden death in chronic chagasic patients—report of 3 cases] Tostes Júnior S, et al. **Rev Soc Bras Med Trop** 1989 Apr–Jun;22(2):97–8 (Eng. Abstr.) (Por)

[Practical evaluation of risk of acute myocardial infarct or sudden death] Glazunov IS, et al. **Kardiologiia** 1989 Nov; 29(11):70–2 (Eng. Abstr.) (Rus)

[Effect of working conditions in deep coal mines of the Donetsk region on the course of ischemic heart disease in miners] Malaia LT, et al. **Kardiologiia** 1989 Aug; 29(8):25–8 (Eng. Abstr.) (Rus)

[Present-day heart surgery for reducing the risk of sudden death] Bokeriia LA. **Klin Med (Mosk)** 1989 Aug; 67(8):15–21 (17 ref.) (Rus)

[Risk of death in status asthmaticus in patients with bronchial asthma] Pavlishchuk SA, et al. **Klin Med (Mosk)** 1990 May; 68(5):68–71 (Eng. Abstr.) (Rus)

[Sudden death in ischemic heart disease] Dombrovskaia EA, et al. **Sov Med** 1989;(6):51–4 (Rus)

[Marfan's syndrome as a cause of sudden death] Arkhangel'skiĭ AV, et al. **Sud Med Ekspert** 1990 Apr–Jun; 33(2):50 (Rus)

[Sudden death: surgical aspects] Bokeriia LA. **Vestn Akad Med Nauk SSSR** 1989;(10):14–21 (Eng. Abstr.) (Rus)

[Sudden death of a patient with 3-hydroxy-3-methylglutaryl coenzyme A lyase deficiency] Vilaseca Busca MA, et al. **An Esp Pediatr** 1990 Feb;32(2):149–53 (31 ref.) (Eng. Abstr.) (Spa)

[Postinfarct ventricular extrasystole and the use of anti-arrhythmic drugs: a danger anticipated by electrophysiologists] Farré J, et al. **Rev Esp Cardiol** 1989 Oct;42(8):498–500 (17 ref.) (Spa)

PATHOLOGY

Validity of post-mortem alcohol reports. Karhunen PJ, et al. **Alcohol Alcohol** 1990;25(1):25–32

Sudden and unexpected death in infancy and childhood due to pulmonary thromboembolism. An autopsy study. Byard RW, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):142–4

Morphometric analysis of the composition of atherosclerotic plaques in the four major epicardial coronary arteries in acute myocardial infarction and in sudden coronary death. Kragel AH, et al. **Circulation** 1989 Dec;80(6):1747–56

Fatal massive pulmonary hemorrhage complicating mitral stenosis. Leung WH, et al. **Clin Cardiol** 1990 Feb; 13(2):136–8

Lymphocyte populations in autopsy bone marrow sections from recipients of allogeneic marrow and non-transplant sudden death cases. Dilly SA, et al. **Clin Exp Immunol** 1990 Jul;81(1):127–31

Sudden death in an alcoholic with intramyocardial small vessel disease. Burns J, et al. **Med Sci Law** 1990 Apr; 30(2):106–8

Anomalous origin of the left main coronary artery from the noncoronary sinus of Valsalva [letter] Ishikawa T, et al. **Pediatr Cardiol** 1990 Jul;11(3):173–4

Cerebral beta-endorphin levels in a woman with Prader-Labhart-Willi syndrome. Pasi A, et al. **Physiol Behav** 1989 Jul;46(1):17–8

Usefulness of different myocardial sampling zones for the postmortem diagnosis of myocardial infarction. Lachica E, et al. **Z Rechtsmed** 1989;103(2):111–9

Sudden death due to bilateral spontaneous pneumothorax caused by rupture of congenital lung cysts. Simonsen K. **Z Rechtsmed** 1990;103(5):379–83

[Sudden death in children with gastrointestinal diseases. 24 forensic cases] Jørgensen IM, et al. **Ugeskr Laeger** 1990 Jul 30;152(31):2233–7 (Eng. Abstr.) (Dan)

[Fatalities in Alpine skiing—autopsy results and forensic medicine conclusions] Ambach E, et al. **Beitr Gerichtl Med** 1989;47:591–5 (Eng. Abstr.) (Ger)

[Corpora amylacea of the brain and their significance for forensic medicine] Eisenmenger W, et al. **Beitr Gerichtl Med** 1989;47:465–71 (Eng. Abstr.) (Ger)

[Injuries and traumatic fatalities in sports with special reference to criminal responsibility] Klös G, et al. **Beitr Gerichtl Med** 1989;47:337–9 (Eng. Abstr.) (Ger)

[Immunohistochemical assessment of survival from open skin wounds using paraffin sections] Oehmichen M, et al. **Beitr Gerichtl Med** 1989;47:7–11 (Eng. Abstr.) (Ger)

[Unexpected natural death in street traffic] Penttilä A, et al. **Beitr Gerichtl Med** 1989;47:579–87 (Eng. Abstr.) (Ger)

[Sudden death in a drug milieu following use of an appetite suppressant] Raudonat HW, et al. **Beitr Gerichtl Med** 1989; 47:539–40 (Eng. Abstr.) (Ger)

[Traumatic carotid sinus reflex death] Sigrist T, et al. **Beitr Gerichtl Med** 1989;47:257–66 (Eng. Abstr.) (Ger)

[Sudden natural death on the toilet] Spira A, et al. **Beitr Gerichtl Med** 1989;47:631–4 (Eng. Abstr.) (Ger)

[Findings in chronic use and acute overdose of Leponex] Sticht G, et al. **Beitr Gerichtl Med** 1989;47:81–6 (Eng. Abstr.) (Ger)

[Sudden death caused by a heart tumor] Rager K, et al. **Monatsschr Kinderheilkd** 1990 Jul;138(7):403–5 (Eng. Abstr.) (Ger)

[Encephalomyocarditis syndrome (EMC syndrome)] Fehlow P, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Apr; 42(4):218–24 (Eng. Abstr.) (Ger)

[Experiences of forensic medicine with death in foreign travel] Haarhoff K, et al. **Versicherungsmedizin** 1990 Aug 1;42(4):115–7 (Eng. Abstr.) (Ger)

[Non-traumatic fatalities in sports activity] Israel S. **Z Arztl Fortbild (Jena)** 1990;84(3):97–100 (32 ref.) (Ger)

[Pathologic-anatomic findings in sudden heart death] Hort W, et al. **Z Kardiol** 1989 Oct;78(10):619–32 (109 ref.) (Eng. Abstr.) (Ger)

[Sudden death of a young asthmatic patient—allergic granulomatous angiitis (Churg-Strauss syndrome)] Tributsch W, et al. **Z Rechtsmed** 1990;103(5):385–91 (Eng. Abstr.) (Ger)

[Re-evaluation of the histopathological staining methods for early ischemic changes in autopsied cases with acute myocardial infarction] Furuhata A, et al. **Rinsho Byori** 1989 Jun;37(6):707–13 (Jpn)

[Electron-microscopic changes in neurosecretory nuclei of the rat hypothalamus after total ischemia in short-term clinical death] Walski M, et al. **Neuropatol Pol** 1989; 27(3):383–96 (Eng. Abstr.) (Pol)

[Status of the adrenal medulla in various types of sudden cardiac death] Kargina-Terent'eva RA. **Arkh Patol** 1989; 51(6):32–6 (Eng. Abstr.) (Rus)

[Renin-angiotensin system in sudden cardiac death: biochemical and morphological aspects] Volkov VN, et al. **Arkh Patol** 1989;51(7):50–5 (Eng. Abstr.) (Rus)

[Quantitative electron-microscopic analysis of tissue components of the sinoatrial region of the heart in sudden death of patients with hypertension] Pavlovich ER, et al. **Kardiologiia** 1990 Jan;30(1):30–4 (Eng. Abstr.) (Rus)

[Catecholamine levels in various regions of the heart in sudden cardiac death] Smirnova EP, et al. **Kardiologiia** 1990 Feb;30(2):98–100 (Rus)

[Sudden death in cardiac myxoma] Osipenkova TK. **Sud Med Ekspert** 1989 Jul-Sep;32(3):22–4 (Eng. Abstr.) (Rus)

VETERINARY

Changes in tissue mineral concentrations associated with sudden-death syndrome in chickens. Buckley WT, et al. **Poult Sci** 1990 Feb;69(2):245–8

DEATH WITH DIGNITY see **RIGHT TO DIE**

3-DEAZAURIDINE see under **URIDINE**

DEBRIDEMENT

Antivenin and fasciotomy/debridement in the treatment of the severe rattlesnake bite. Stewart RM, et al. **Am J Surg** 1989 Dec;158(6):543–7

A prospective, randomized clinical trial of wound debridement versus conservative wound care in soft-tissue injury from civilian gunshot wounds. Brunner RG, et al. **Am Surg** 1990 Feb;56(2):104–7

Arthroscopic debridement of the arthritic knee. Baumgaertner MR, et al. **Clin Orthop** 1990 Apr; (253):197–202

Long-term results of various treatment options for infected total knee arthroplasty. Morrey BF, et al. **Clin Orthop** 1989 Nov;(248):120–8

One-stage treatment of gunshot wounds. Ziv I, et al. **J Foot Surg** 1989 May-Jun;28(3):255–8

Fatal iodine toxicity following surgical debridement of a hip wound: case report. D'Auria J, et al. **J Trauma** 1990 Mar; 30(3):353–5

[Exeresis of residual masses of germinal tumors of the testis after chemotherapy] Bassoulet J, et al. **Ann Urol (Paris)** 1989;23(5):388–92 (Eng. Abstr.) (Fre)

[Follow-up of extensive burns in an HIV positive patient. Case report] de Roche R, et al. **Unfallchirurg** 1990 Feb; 93(2):84–7 (Eng. Abstr.) (Ger)

INSTRUMENTATION

Ultrasonic debridement of calcified pericardium in constrictive pericarditis. Johnson RG, et al. **Ann Thorac Surg** 1989 Dec;48(6):855–6

METHODS

Pain control in the surgical debridement of leg ulcers by the use of a topical lidocaine—prilocaine cream, EMLA. Holm J, et al. **Acta Derm Venereol (Stockh)** 1990; 70(2):132–6

Aortic valve debridement by ultrasonic surgical aspirator: a word of caution [see comments] Craver JM. **Ann Thorac Surg** 1990 May;49(5):746–52; discussion 752–3 Comment in: Ann Thorac Surg 1990 May;49(5):689–90.

Tricuspid valve Candida endocarditis cured by valve-sparing debridement. Tanaka M, et al. **Ann Thorac Surg** 1989 Dec; 48(6):857–8

Arthroscopic cartilage debridement by excimer laser in chondromalacia of the knee joint. A prospective randomized clinical study. Raunest J, et al. **Arch Orthop Trauma Surg** 1990;109(3):155–9

Zinc chloride paste for the debridement of chronic leg ulcers. Falanga V, et al. **J Dermatol Surg Oncol** 1990 Jul; 16(7):658–61

Arthroscopy update #6. Arthroscopy in the osteoarthritic knee. Long-term follow-up. Timoney JM, et al. **Orthop Rev** 1990 Apr;19(4):371–3, 376–9 (27 ref.)

[The early treatment of a second degree burned wound—the use of a carborundum disk in debridement (report of 25 cases)] Kao ZD. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1985 Dec;1(4):287 (Chi)

[Arthroscopic shaving following cruciate ligament-plasty] Gächter A. **Orthopade** 1990 Apr;19(2):103–6 (Eng. Abstr.) (Ger)

[Aggressive debridement and early soft tissue coverage of 3d degree open tibial fractures] Ketterl RL, et al. **Zentralbl Chir** 1990;115(4):209–18 (Eng. Abstr.) (Ger)

[Necrolysis in burns using fibrinolysin and deoxyribonuclease] Novák J, et al. **Magy Traumatol Orthop Helyreallito Sebesz** 1990; 33(2):114–8 (Eng. Abstr.) (Hun)

[Surgical debridement of wounds in children using CO2 laser] Livshits IuL. **Khirurgiia (Mosk)** 1989 Nov;(11):103–6 (Eng. Abstr.) (Rus)

VETERINARY

Debridement of septic physeal lesions in 3 foals. Baird AN, et al. **Cornell Vet** 1990 Jan;80(1):85–95

DEBRISOQUIN see under **ISOQUINOLINES**

DECALCIFICATION, PATHOLOGIC see under **CALCIUM METABOLISM DISORDERS**

DECALCIFICATION TECHNIC

Immunohistological optimization of detection of bromodeoxyuridine-labeled cells in decalcified tissue. Hume WJ, et al. **J Histochem Cytochem** 1990 Apr; 38(4):509–13

A method to determine the end point of decalcification of hard tissue and bone. Müller S, et al. **Stain Technol** 1990; 65(2):77–83

[Experimental study of the ossification of decalcified cortical bone] Szabó G, et al. **Magy Traumatol Orthop Helyreallito Sebesz** 1989; 32(4):275–80 (Eng. Abstr.) (Hun)

DECAMETHONIUM COMPOUNDS

ANALYSIS

[Mass-spectrometric analysis of an anti-microbial preparation decamethoxine] Sukhodub LF, et al. **Antibiot Khimioter** 1989 Nov;34(11):823–7 (Eng. Abstr.) (Rus)

PHARMACOLOGY

In vitro time course studies on train-of-four fade induced by hexamethonium, pancuronium and decamethonium in the rat hemidiaphragm. Gwee MC, et al. **Clin Exp Pharmacol Physiol** 1989 Dec;16(12):897–903

DECANOATES see under **DECANOIC ACIDS**

DECANOIC ACIDS

ADMINISTRATION & DOSAGE

Glaucoma filtration surgery in monkeys using 5-fluorouridine in polyanhydride disks. Jampel HD, et al. **Arch Ophthalmol** 1990 Mar;108(3):430-5

ADVERSE EFFECTS

Allergic contact dermatitis from ethyl sebacate. Kabasawa Y, et al. **Contact Dermatitis** 1990 Apr;22(4):226

ANALYSIS

[Gas chromatographic detection of sebacic acid in the air] Kvatadze MK. **Gig Tr Prof Zabol** 1989;(9):45-6 (Eng. Abstr.) (Rus)

DIAGNOSTIC USE

[Use of sebacic acid for identifying anaerobic bacteria using gas phase chromatography] Larrinaga A, et al. **Rev Argent Microbiol** 1989 Apr-Jun;21(2):55-61 (Eng. Abstr.) (Spa)

PHARMACOKINETICS

Tissue distribution and elimination of perfluorodecanoic acid in the rat after single intraperitoneal administration. Ylinen M, et al. **Pharmacol Toxicol** 1990 Jan;66(1):45-8

PHARMACOLOGY

Effect of the peroxisome proliferator perfluorodecanoic acid on growth and lipid metabolism in Sprague Dawley rats fed three dietary levels of selenium. Borges T, et al. **Arch Toxicol** 1990;64(1):26-30

Regulation of hepatic malic enzyme by perfluorodecanoic acid. Kelling CK, et al. **J Biochem Toxicol** 1986 Sep; 1(3):23-37

The effects of nonadecafluoro-n-decanoic acid on serum retinol and hepatic retinyl palmitate hydrolase activity in male Sprague-Dawley rats. Powers RH, et al. **J Biochem Toxicol** 1986 Jun;1(2):27-42

Modulation of selenium-dependent glutathione peroxidase by perfluorodecanoic acid in rats: effect of dietary selenium. Chen LC, et al. **J Nutr** 1990 Mar;120(3):298-304

TOXICITY

Acute toxicity of perfluorodecanoic acid in C57BL/6 mice differs from 2,3,7,8-tetrachlorodibenzo-p-dioxin. Harris MW, et al. **Fundam Appl Toxicol** 1989 Nov;13(4):723-36

Effects of perfluoro-n-decanoic acid on the respiratory activity of isolated rat liver mitochondria. Langley AE. **J Toxicol Environ Health** 1990;29(3):329-36

Androgenic deficiency in male rats treated with perfluorodecanoic acid. Bookstaff RC, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):322-33

DECARBOXYCYSTINE see **CYSTAMINE**

DECARBOXYLASES see **CARBOXY-LYASES**

DECARBOXYLATION see under **CHEMISTRY, ORGANIC**

DECAVANADATE see **VANADATES**

DECAYED, MISSING, AND FILLED TEETH see **DMF INDEX**

DECELERATION see under **ACCELERATION**

DECEREBRATE STATE

The influence of halothane and thiopental on respiratory-related nerve activities in decerebrate cats. Masuda A, et al. **Acta Anaesthesiol Scand** 1989 Nov; 33(8):660-5

Micturition reflexes in decerebrate and spinalized neonatal rats. Kruse MN, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1508-11

Long-lasting depolarization of the central terminals of cutaneous afferents in L7 segment evoked by volleys ascending from the sacral cord in the cat. Lupa K, et al. **Clin Exp Pharmacol Physiol** 1988 Oct;15(10):795-8

Gamma-motoneurone discharge patterns during fictive locomotion in the decerebrate cat. Murphy PR, et al. **Exp Physiol** 1990 Jan;75(1):107-10

Suppression of clinical weakness in experimental autoimmune encephalomyelitis associated with weight changes, and post-decapitation convulsions after intracisternal-ventricular administration of 6-hydroxydopamine. Konkol RJ, et al. **J Neuroimmunol** 1990 Jan;26(1):25-34

The organization of heterogenic reflexes among muscles crossing the ankle joint in the decerebrate cat. Nichols TR. **J Physiol (Lond)** 1989 Mar;410:463-77

Cardiovascular and respiratory effects of an opioid kappa agonist ethylketazocine and sigma agonist N-allylnormetazocine in acutely decerebrated dogs. Wu KM, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):405-11

[A study of the pontine urine storage center in decerebrate cats] Matsuzaki A. **Nippon Hinyokika Gakkai Zasshi** 1990 May;81(5):672-9 (Eng. Abstr.) (Jpn)

[Effect of propiverine hydrochloride on the function of the bladder in decerebrated dogs] Kaneko S, et al. **Nippon Yakurigaku Zasshi** 1990 Feb;95(2):55-61 (Eng. Abstr.) (Jpn)

ETIOLOGY

Clinical pathologic conference. Tricuspid atresia with surgical intervention. Clasen RA, et al. **Am Heart J** 1966 Apr;71(4):542-8

METABOLISM

Angiotensin augments epinephrine release in pithed rats fed a low-sodium diet. Vollmer RR, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R187-92

Unusual peaks of oxygen consumption under special alimentary conditions. Racotta R, et al. **Bol Estud Med Biol** 1989 Jul-Dec;37(3-4):83-6

PHYSIOPATHOLOGY

Cardiovascular regulation in the acute decerebrate rat. Futuro-Neto H de A, et al. **Acta Physiol Pharmacol Latinoam** 1987;37(4):445-53

Weight-bearing hindlimb stepping in treadmill-exercised adult spinal cats. Lovely RG, et al. **Brain Res** 1990 Apr 30;514(2):206-18

Preservation of consciousness in a decerebrating head injured patient. Mahapatra AK, et al. **J Assoc Physicians India** 1990 Apr;38(4):305-6

Monosynaptic and dorsal root reflexes during locomotion in normal and thalamic cats. Duenas SH, et al. **J Neurophysiol** 1990 Jun;63(6):1467-76

The effects of lesions on autogenetic inhibition in the decerebrate cat. Iles JF, et al. **J Physiol (Lond)** 1989 Dec; 419:611-25

Autogenetic inhibition from contraction receptors in the decerebrate cat. Jack JJ, et al. **J Physiol (Lond)** 1989 Dec; 419:589-610

Quantitative study of decorticate hypertonia in the squirrel monkey and decerebrate rigidity in the cat. Gentili F, et al. **Surg Forum** 1978;29:505-7

[Regulation of the duration of expiratory phases in decerebrate cats] Glebovskiĭ VD, et al. **Fiziol Zh SSSR** 1989 Aug;75(8):1102-11 (Eng. Abstr.) (Rus)

DECIDUA

ANALYSIS

S-100 protein in glands within decidua and cervical glands during early pregnancy. Nakamura Y, et al. **Hum Pathol** 1989 Dec;20(12):1204-9

The effect of RU 38,486 on progesterone and oestrogen receptor concentrations in the decidua and placenta in early pregnancy. Hill NC, et al. **Hum Reprod** 1990 May; 5(4):464-7

The presence of gonadotropin receptors in nonpregnant human uterus, human placenta, fetal membranes, and decidua. Reshef E, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):421-30

Human relaxin in the amnion, chorion, decidua parietalis, basal plate, and placental trophoblast by immunocytochemistry and northern analysis. Sakbun V, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):508-14

Identification, immunoaffinity purification and partial characterization of a human decidua-associated protein. Halperin R, et al. **J Reprod Fertil** 1990 Jan;88(1):159-65

Immunohistological localization of human pregnancy-associated endometrial alpha 2-globulin (alpha 2-PEG), a glycosylated beta-lactoglobulin homologue, in the decidua and placenta during pregnancy. Waites GT, et al. **J Reprod Fertil** 1989 Sep;87(1):291-300

[Changes in the amount and synthesis of DNA in the nuclei of large decidual cells in rats during their differentiation] Mikhailov VM, et al. **Tsitologiia** 1989 Jun;31(6):677-84 (Eng. Abstr.) (Rus)

CYTOLOGY

Diameter increase of collagen fibrils of the mouse endometrium during decidualization. Alberto-Rincon MC, et al. **Am J Anat** 1989 Dec;186(4):417-29

Phagocytosis of collagen by mouse decidual cells. Zorn TM, et al. **Anat Rec** 1989 Oct;225(2):96-100

Steroid hormone regulation of the earliest endometrial responses to implantation in the rat. Kraicer PF, et al. **J Reprod Fertil Suppl** 1989;37:121-6

[Changes in the cellular composition of the deciduous membrane in physiologic pregnancy and late toxicosis] Kottsova NA, et al. **Arkh Anat Gistol Embriol** 1989 Nov; 97(11):76-82 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Induction of deciduoma in rabbits: the effect of dose of progesterone, time of trauma, nature of trauma and role played by oestrogens. Elton RL. **Acta Endocrinol (Copenh)** 1966 Apr;51(4):551-6

Implantation delay and anti-deciduogenic activity in the rat by the anti-androgen, hydroxyflutamide. Chandrasekhar Y, et al. **Biol Reprod** 1990 Jan;42(1):120-5

Progesterone and human chorionic gonadotropin do not stimulate placental proteins 12 and 14 or prolactin production by human decidual tissue in vitro. Ren SG, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):983-9

Endometrial response to deciduogenic stimulus in ovariectomized rhesus monkeys treated with oestrogen and progesterone: an ultrastructural study. Sengupta J, et al. **J Endocrinol** 1990 Jan;124(1):53-7

Failure of platelet-activating factor (PAF-acether) to induce decidualization in mice and failure of antagonists of PAF to inhibit implantation. Milligan SR, et al. **J Reprod Fertil** 1990 Jan;88(1):105-12

ENZYMOLOGY

Kinetic and end-point microdensitometry (section biochemistry) of gamma-glutamyl transpeptidase and dipeptidyl peptidase IV in the mature mouse decidua and visceral yolk sac. Ruhnke M, et al. **Acta Histochem (Jena)** 1989;87(1):23-31

Hormone regulated enzyme activities of plasma membrane of decidual endometrium of the rat. Yunghans WN, et al. **Biochem Int** 1990;21(2):377-85

Immunohistochemical localization of prostaglandin endoperoxide synthase in human fetal membranes and decidua. Price TM, et al. **Biol Reprod** 1989 Oct;41(4):701-5

Steroid sulfohydrolase in human chorion and decidua: studies using pregnenolone sulfate and dehydroepiandrosterone sulfate as substrate. Chibbar R, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1693-701

[The effect of the synthetic analog of prostaglandin E2 sulprostone on the adenylate cyclase system in decidual tissue of women] Goncharova VN, et al. **Vopr Med Khim** 1989 Nov-Dec;35(6):55-9 (Eng. Abstr.) (Rus)

GROWTH & DEVELOPMENT

Decidualization in the post-partum uterus of the mouse. Brandon JM. **J Reprod Fertil** 1990 Jan;88(1):151-8

IMMUNOLOGY

Human trophoblast and JEG choriocarcinoma cells are sensitive to lysis by IL-2-stimulated decidual NK cells. King A, et al. **Cell Immunol** 1990 Sep;129(2):435-48

Human trophoblast cell resistance to decidual NK lysis is due to lack of NK target structure. King A, et al. **Cell Immunol** 1990 May;127(2):230-7

Prostaglandin-mediated inactivation of natural killer cells in the murine decidua. Scodras JM, et al. **Cell Immunol** 1990 May;127(2):352-67

Decidual cellular responses. Bulmer JN. **Curr Opin Immunol** 1989 Aug;1(6):1141-7 (25 ref.)

Cell populations in the human early pregnancy decidua: natural killer activity and response to interleukin-2 of CD56-positive large granular lymphocytes. Ferry BL, et al. **Immunology** 1990 Aug;70(4):446-52

Macrophage functions are regulated by the substratum of murine decidual stromal cells. Redline RW, et al. **J Clin Invest** 1990 Jun;85(6):1951-8

Murine pregnancy decidua produces a unique immunosuppressive molecule related to transforming growth factor beta-2. Clark DA, et al. **J Immunol** 1990 Apr 15;144(8):3008-14

A novel suppressor cell develops in uterine decidua in response to fetal trophoblast-type cells. Slapsys RM, et al. **Reg Immunol** 1988 Nov-Dec;1(3):182-9

Immunochemical characterization of the suppressor factor from early human decidual cells. Matsui S, et al. **Transplantation** 1989 Oct;48(4):651-4

METABOLISM

Vasopressin receptors in human pregnant myometrium and decidua: interactions with oxytocin and vasopressin agonists and antagonists. Ivanisevic M, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1637-43

Immunocytochemical localization and messenger ribonucleic acid concentrations for human placental lactogen in amnion, chorion, decidua, and placenta. Sakbun V, et al. **Am J Obstet Gynecol** 1990 May;162(5):1310-7

Lipid peroxidation in the rat uterus during deciduoma induced cell differentiation. Devasagayam TP, et al. **Biochem Int** 1990;21(1):27-32

Steroid interactions with plasma membrane of decidual endometrium of the rat. Yunghans WN, et al. **Biochem Int** 1990;21(2):387-95

Decidual prolactin. Studies of decidual and amniotic prolactin in normal and pathological pregnancy. Andersen JR. **Dan Med Bull** 1990 Apr;37(2):154-65 (117 ref.)

Cell-specific metallothionein gene expression in mouse decidua and placentae. De SK, et al. **Development** 1989 Nov;107(3):611-21

Interconversion of cortisol and cortisone in baboon trophoblast and decidua cells in culture. Baggia S, et al. **Endocrinology** 1990 Oct;127(4):1735-41

Three distinct forms of insulin-like growth factor binding proteins are released by decidual cells in culture. Clemmons DR, et al. **Endocrinology** 1990 Aug;127(2):643-50

The rat follistatin gene is highly expressed in decidual tissue. Kaiser M, et al. **Endocrinology** 1990 May;126(5):2768-70

The effects of the antiprogestin mifepristone, in vivo, and progesterone in vitro on prolactin production by the human decidua in early pregnancy. Wu WX, et al.

Hum Reprod 1990 Jul;5(5):627–31
Human prolactin gene expression. The use of an alternative noncoding exon in decidua and the IM–9–P3 lymphoblast cell line. DiMattia GE, et al. **J Biol Chem** 1990 Sep 25; 265(27):16412–21
Presence and synthesis of inhibin subunits in human decidua. Petraglia F, et al. **J Clin Endocrinol Metab** 1990 Aug; 71(2):487–92
Identification and characterization of a rat decidual insulin–like growth factor–binding protein complementary DNA. Murphy LJ, et al. **Mol Endocrinol** 1990 Feb; 4(2):329–36
Cell–specific induction of mouse Cyp1a1 mRNA during development. Dey A, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7446–50
An inhibitor of prostaglandin biosynthesis from human decidua: partial purification and properties. Ishihara O, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jul; 40(3):223–6
Bacterial endotoxin and tumor necrosis factor stimulate prostaglandin production by human decidua. Romero R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):183–6
[Granulocyte colony stimulating factor (G–CSF) production of human decidual cells obtained from early stage of pregnancy] Kawabata M, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1990 Apr;42(4):361–2 **(Jpn)**
[Characteristics of a transcortin–binding component of the plasma membrane of cells of the human decidual endometrium] Avvakumov GV, et al. **Biokhimiia** 1989 Aug;54(8):1373–8 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Deciduosis of the appendix. Suster S, et al.
Am J Gastroenterol 1990 Jul;85(7):841–5 (36 ref.)
[Pathologic analysis of the placenta in preterm deliveries] Tang MY. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Nov; 24(6):334–7, 380–1 (Eng. Abstr.) **(Chi)**
[The chorion and decidua—morphology and biomolecular processes for their activation exemplified by premature rupture of the fetal membranes] Ludwig H.
Gynakol Rundsch 1989;29 Suppl 2:115–21 (7 ref.) **(Ger)**

PHYSIOLOGY

The decidual cell responses in rabbits. Elton RL.
Acta Endocrinol (Copenh) 1966 Apr;51(4):543–50
Trophoblast invasion during implantation of the mouse embryo. Bevilacqua EM, et al.
Arch Biol Med Exp (Santiago) 1989 Jul;22(2):107–18
Expression of insulin–like growth factor–I and insulin–like growth factor–binding protein–1 in the rat uterus during decidualization. Croze F, et al. **Endocrinology** 1990 Oct; 127(4):1995–2000
Hormonal regulation of human endometrial stromal cells in culture: an in vitro model for decidualization. Irwin JC, et al. **Fertil Steril** 1989 Nov;52(5):761–8
Interferon activity is not detected in blastocyst secretions and does not induce decidualization in mice. Baker DJ, et al. **J Reprod Fertil** 1990 Jan;88(1):307–13

SECRETION

Relaxin stimulates the synthesis and release of prorenin from human decidual cells: evidence for autocrine/paracrine regulation. Poisner AM, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1765–7
Differential regulation of insulin–like growth factor binding protein secretion from human decidual cells by IGF–I, insulin, and relaxin. Thraikill KM, et al. **J Clin Invest** 1990 Sep;86(3):878–83

ULTRASTRUCTURE

Organization of intermediate filaments and their association with collagen–containing phagosomes in mouse decidual cells. Zorn TM, et al. **J Struct Biol** 1990 Mar;103(1):23–33

DECIDUAL CELL REACTION see **OVUM IMPLANTATION**

DECISION ANALYSIS see **DECISION SUPPORT TECHNICS**

DECISION MAKING

see related
DECISION SUPPORT TECHNICS
GAME THEORY
POLICY MAKING

Physician practice characteristics as a context for primary care treatment decision making: a preliminary study. Gruppen LD, et al. **Acad Med** 1990 Sep;65(9 Suppl):S9–10
Effects of pattern matching, pattern discrimination, and experience in the development of diagnostic expertise. Papa FJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S21–2
Professional decisions and ethical values in medical and law students. Rezler AG, et al. **Acad Med** 1990 Sep;65(9 Suppl):S31–2
Sexual decision making in young black adolescent females. Pete JM, et al. **Adolescence** 1990 Spring;25(97):145–54
Family environment, affect, ambivalence and decisions about unplanned adolescent pregnancy. Warren KC, et al. **Adolescence** 1989 Fall;24(95):505–22
Clinical decision–making in the evaluation and treatment of insomnia. Everitt DE, et al. **Am J Med** 1990 Sep; 89(3):357–62
Making better decisions. Grainger RD. **Am J Nurs** 1990 Jun; 90(6):15–6
Vaginal birth after cesarean or repeat cesarean section: medical risks or social realities? Kirk EP, et al.
Am J Obstet Gynecol 1990 Jun;162(6):1398–403; discussion 403–5
Formal operational thinking: the role of cognitive–developmental processes in adolescent decision–making about pregnancy and contraception. Gordon DE. **Am J Orthopsychiatry** 1990 Jul;60(3):346–56 (46 ref.)
Telling the truth in the face of medical uncertainty and disagreement. Forman EN, et al.
Am J Pediatr Hematol Oncol 1989 Winter;11(4):463–6
Quantitative analysis of litigation costs [letter; comment] Wears RL, et al. **Ann Emerg Med** 1990 Jun;19(6):733 Comment on: Ann Emerg Med 1989 Sep;18(9):1014.
Outcome versus process in decision making. Ashford NA. **Ann N Y Acad Sci** 1989;572:76–8; discussion 84–8
Health care rationing, once taboo, is now reality [editorial] Palmer PN. **AORN J** 1989 Oct;50(4):735–6
Impact of medical hospitalization on treatment decision–making capacity in the elderly. Fitten LJ, et al. **Arch Intern Med** 1990 Aug;150(8):1717–21
Images and dilemmas. Colquhoun JP. **Aust Fam Physician** 1990 Apr;19(4):581–2
Genetic counseling principles in action: a casebook. Marks JH, et al. **Birth Defects** 1989;25(5):1–142
Resuscitation decisions in a general hospital [letter; comment] **BMJ** 1990 May 12;300(6734):1271–2 Comment on: BMJ 1990 Mar 24;300(6727):785.
Factors influencing the initial decision to use an intrauterine device. Goldstuck ND. **Br J Clin Pract** 1989 May; 43(5):173–6
The decision–making process in child language assessment. Gerard KA, et al. **Br J Disord Commun** 1990 Apr; 25(1):61–75
Attitudes to risk taking in medical decision making among British, Dutch and Belgian general practitioners. Grol R, et al. **Br J Gen Pract** 1990 Apr;40(333):134–6
Is it time for a reconsideration of the criteria for cone biopsy? Lopes A, et al. **Br J Obstet Gynaecol** 1989 Nov; 96(11):1345–7
Moral balance: the effect of prior behaviour on decision in moral conflict. Nisan M, et al. **Br J Soc Psychol** 1990 Mar; 29 (Pt 1):29–42
Clinical decision making and laparoscopy versus computer prediction in the management of the acute abdomen. Paterson–Brown S, et al. **Br J Surg** 1989 Oct;76(10):1011–3
The basis for choice reaction time slowing in Alzheimer's disease. Gordon B, et al. **Brain Cogn** 1990 Jul;13(2):148–66
Factors women take into account when deciding upon type of surgery for breast cancer. Ward S, et al.
Cancer Nurs 1989 Dec;12(6):344–51
Clinical diagnosis—is there a more rational approach? Jayasinghe S. **Ceylon Med J** 1989 Dec;34(4):149–51
Neural networks applied to pharmaceutical problems. I. Method and application to decision making. Aoyama T, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2258–60
Change in family work status: effects on parent–adolescent decision making. Flanagan CA. **Child Dev** 1990 Feb; 61(1):163–77
Knowledge, attitude, and the decision to be tested for Huntington's disease. Quaid KA, et al. **Clin Genet** 1989 Dec;36(6):431–8
Rehearsing decisions may help teenagers: an evaluation of a simulation game. Alemi F, et al. **Comput Biol Med** 1989; 19(4):283–90 (20 ref.)
Predicting 1–year outcome following acute myocardial infarction: physicians versus computers. Gilpin EA, et al. **Comput Biomed Res** 1990 Feb;23(1):46–63
Allowing to die [editorial] [see comments] Truog RD.
Crit Care Med 1990 Jul;18(7):790–1 Comment in: Crit Care Med 1990 Jul;18(7):788–9.
Weight of financial reward in the decision by medical students and experienced healthy volunteers to participate in clinical trials. Bigorra J, et al. **Eur J Clin Pharmacol** 1990;38(5):443–6
Serotonergic agents restore appropriate decision–making in neonatal rats displaying dopamine D1 receptor–mediated vacillatory behavior. Whitaker–Azmitia PM, et al.
Eur J Pharmacol 1990 May 16;180(2–3):305–9
Specialty career decision making of third–year medical students. Nieman LZ, et al. **Fam Med** 1989 Sep–Oct; 21(5):359–63
Patients' decisions about continuing with therapy in chronic illness: a study of hyperbaric oxygen therapy in multiple sclerosis. Wynne A, et al. **Fam Pract** 1989 Dec;6(4):268–73
Ethical decision making in family therapy. Zygmond MJ, et al. **Fam Process** 1989 Sep;28(3):269–80
The clinician's role in competency evaluations. Kaplan KH, et al. **Gen Hosp Psychiatry** 1989 Nov;11(6):397–403
Locus of control and decision making for posthospital care. Coulton CJ, et al. **Gerontologist** 1989 Oct;29(5):627–32 (41 ref.)
The role of intimate others in medical decision making. Jecker NS. **Gerontologist** 1990 Feb;30(1):65–71 (45 ref.)
Autonomy and decision making between single older women and their caregiving daughters. Pratt CC, et al.
Gerontologist 1989 Dec;29(6):792–7
Helping Medicare beneficiaries choose health insurance: the illness episode approach. Sofaer S, et al. **Gerontologist** 1990 Jun;30(3):308–15
An empirical study of proxy consent for elderly persons. Tomlinson T, et al. **Gerontologist** 1990 Feb;30(1):54–64
Treatment choices at the end of life: a comparison of decisions by older patients and their physician–selected proxies. Zweibel NR, et al. **Gerontologist** 1989 Oct; 29(5):615–21
The burden of decision. Capron AM. **Hastings Cent Rep** 1990 May–Jun;20(3):36–41
Parental responsibility and the Infant Bioethics Committee. Fleischman AR. **Hastings Cent Rep** 1990 Mar–Apr; 20(2):31–2
No decision on Cruzan? [news] Gauri V.
Hastings Cent Rep 1990 Mar–Apr;20(2):2–3
What about the family? Hardwig J. **Hastings Cent Rep** 1990 Mar–Apr;20(2):5–10
Inviting clinicians to kill... [[letter; comment] Parker MH. **Hastings Cent Rep** 1990 Mar–Apr;20(2):51 Comment on: Hastings Cent Rep 1989 Jan–Feb;19(1):suppl 13–5.
A focus group study on decision processes of young drivers: reasons that may support a decision to drink and drive. Basch CE, et al. **Health Educ Q** 1989 Fall;16(3):389–96
Effects of decisional control and work orientation on persistence in preventive health behavior. Burleson JA, et al. **Health Psychol** 1990;9(1):1–17
Do–not–resuscitate decisions on a psychiatric unit. Webb M, et al. **Hosp Community Psychiatry** 1990 Mar;41(3):319–21
Effect of uncertainty and diagnosticity on classification of multidimensional data with integral and separable displays of system status. Coury BG, et al. **Hum Factors** 1989 Oct; 31(5):551–69
Determinants of early infant weaning: a multivariate approach. Lindenberg CS, et al. **Int J Nurs Stud** 1990; 27(1):35–41
The Nancy Cruzan case. Weir R. **Iowa Med** 1990 Mar; 80(3):136
The psychological impact of disability and illness on medical treatment decisionmaking. Evans D. **Issues Law Med** 1989 Winter;5(3):277–99
Rationing health care: will it be necessary? Can it be done without age or disability discrimination? Kapp MB, et al. **Issues Law Med** 1989 Winter;5(3):337–66
Decisions at the end of life. Koop CE. **Issues Law Med** 1989 Fall;5(2):225–33
Ethical considerations in the life of a child with Down syndrome. Pueschel SM. **Issues Law Med** 1989 Summer; 5(1):87–99 (29 ref.)
The relationship between family structure and process variables and adolescent decision making. Brown JE, et al. **J Adolesc** 1990 Mar;13(1):25–37
Adolescent decision–making: the development of competence. Mann L, et al. **J Adolesc** 1989 Sep; 12(3):265–78 (49 ref.)
The parents' perspective: ethical decision–making in neonatal intensive care. Pinch WJ, et al. **J Adv Nurs** 1990 Jun; 15(6):712–9
Selecting nonsteroidal anti–inflammatory drugs: pharmacologic and clinical considerations [see comments] Miller LG, et al. **J Am Board Fam Pract** 1989 Oct–Dec; 2(4):257–71 (118 ref.) Comment in: J Am Board Fam Pract 1990 Jan–Mar;3(1):71–2. Comment in: J Am Board Fam Pract 1990 Apr–Jun;3(2):142.
Clinical judgment and therapeutic decision making. Hlatky MA, et al. **J Am Coll Cardiol** 1990 Jan;15(1):1–14 (151 ref.)
Perceptions of clinical decision making by dietitians and physicians. Gaare J, et al. **J Am Diet Assoc** 1990 Jan; 90(1):54–8
Deciding to restrain medical patients. Macpherson DS, et al. **J Am Geriatr Soc** 1990 May;38(5):516–20
An evaluation of ethical decision–making. Lueders AJ.
J Arkansas Med Soc 1990 Jan;86(8):307–8
The role of periodontal probing depth in clinical decision–making. Persson R, et al. **J Clin Periodontol** 1990 Feb;17(2):96–101
A model for decision making regarding periodontal treatment needs. Wennström JL, et al. **J Clin Periodontol** 1990 Apr; 17(4):217–22
Semantic priming in the lexical decision task: roles of prospective prime–generated expectancies and retrospective semantic matching. Neely JH, et al.
J Exp Psychol [Learn Mem Cogn] 1989 Nov;15(6):1003–19
Decision analysis, the Journal of General Internal Medicine, and the general internist. Cummins R.
J Gen Intern Med 1990 Jul–Aug;5(4):375–8
Bridging the gap between ethical theory and practical decisionmaking in medicine. King JR.
J Health Polit Policy Law 1990 Spring;15(1):220–9
Neomodern health care: survival of the fittest. Ehrat KS.
J Nurs Adm 1990 May;20(5):9–10
Strategic decision making. Nagelkerk JM, et al.
J Nurs Adm 1990 Jul–Aug;20(7–8):18–23
Nurse decision–making influence. A discrepancy between the nursing and hospital literatures. Schwartz RH.
J Nurs Adm 1990 Jun;20(6):35–9 (31 ref.)
Effect of a career decision–making course on the career planning of nursing students. Hay CL, et al.
J Nurs Educ 1989 Sep;28(7):298–301

Nursing education application of a computerized nursing expert system. Lappe JM, et al. **J Nurs Educ** 1990 Jun; 29(6):244–8
Risk-taking propensity of nurses: ADN and BSN. Masters ML, et al. **J Nurs Educ** 1989 Nov;28(9):391–6
Factors related to decisions about infertility treatment. Frank DI. **J Obstet Gynecol Neonatal Nurs** 1990 Mar–Apr; 19(2):162–7
Intending to breastfeed and work. Morse JM, et al. **J Obstet Gynecol Neonatal Nurs** 1989 Nov–Dec; 18(6):493–500
Reflections on palliative care: a "trouble case". Hentelleff PD. **J Palliat Care** 1989 Dec;5(4):19–24
Inferring emotions from multiple cues: revealing age-related differences in "how" without differences in "can". Wells RS, et al. **J Pers** 1989 Dec;57(4):747–71
Expert perinatal practice—making a difference. Poirier J, et al. **J Prof Nurs** 1990 May–Jun;6(3):140, 185
Wanted, psychiatric technician. Assessing decision-making skills. Harris T. **J Psychosoc Nurs Ment Health Serv** 1990 May;28(5):23–6
Ethical decision making by British general practitioners. Christie RJ, et al. **J R Coll Gen Pract** 1989 Nov; 39(328):448–51
Students need skills to prevent HIV infection. Kerr DL. **J Sch Health** 1990 Jan;60(1):39
Decision making of satisfied and dissatisfied married couples. Houlihan MM, et al. **J Soc Psychol** 1990 Feb;130(1):89–102
Clinical decision making: theory vs practice [letter] **JAMA** 1990 Sep 26;264(12):1533–4
Clinical decision making: from theory to practice. What do we do about costs? Eddy DM. **JAMA** 1990 Sep 5; 264(9):1161, 1165, 1169–70
Clinical decision making: from theory to practice. Connecting value and costs. Whom do we ask, and what do we ask them? Eddy DM. **JAMA** 1990 Oct 3;264(13):1737–9
The challenge [see comments] Eddy DM. **JAMA** 1990 Jan 12;263(2):287–90 Comment in: **JAMA** 1990 Jan 12;263(2):279–80.
Comparing benefits and harms: the balance sheet. Eddy DM. **JAMA** 1990 May 9;263(18):2493, 2498, 2501 passim
Practice policies: where do they come from? Eddy DM. **JAMA** 1990 Mar 2;263(9):1265, 1269, 1272 passim
Clinical decision making: from theory to practice. Anatomy of a decision. Eddy DM. **JAMA** 1990 Jan 19;263(3):441–3
Clinical decision making: promoting the jump from theory to practice [published erratum appears in **JAMA** 1990 Mar 16;263(11):1496] [editorial; comment] Flanagin A, et al. **JAMA** 1990 Jan 12;263(2):279–80 Comment on: **JAMA** 1990 Jan 12;263(2):287–90.
An odyssey through Iliad. Rootenberg JD, et al. **JAMA** 1990 Feb 2;263(5):758–9
Durable power of attorney for health care decision. Luckert MJ. **Kans Med** 1990 May;91(5):138–41
Experiences of a woman who intended to relinquish her infant for adoption. Tennyson MA. **Matern Child Nurs J** 1988 Fall;17(3):139–52
Decision making in the face of uncertainty: the case of carotid endarterectomy. Matchar DB. **Mayo Clin Proc** 1990 May; 65(5):756–60
The competing demands of employment and informal caregiving to disabled elders. Stone RI, et al. **Med Care** 1990 Jun;28(6):513–26
Lenticular opacities [letter] Diamond GA. **Med Decis Making** 1990 Apr–Jun;10(2):147
Through a lens, darkly. Diamond GA. **Med Decis Making** 1989 Oct–Dec;9(4):253–6
Framing effects [letter; comment] Elstein AS. **Med Decis Making** 1990 Apr–Jun;10(2):148 Comment on: Med Decis Making 1989 Oct–Dec;9(4):262–71.
Aortic aneurysm in a 74-year-old man with coronary disease and obstructive lung disease: is double jeopardy enough? Hagen MD, et al. **Med Decis Making** 1989 Oct–Dec; 9(4):285–99
Effects of outcome framing on treatment decisions in the real world: impact of framing on adjuvant breast cancer decisions [see comments] Siminoff LA, et al. **Med Decis Making** 1989 Oct–Dec;9(4):262–71 Comment in: Med Decis Making 1990 Apr–Jun;10(2):148.
The lens model—a gem of a method of judgment analysis or just a diamond in the rough? Speroff T, et al. **Med Decis Making** 1989 Oct–Dec;9(4):257–61
Lens model analysis of hemodynamic status in the critically ill. Speroff T, et al. **Med Decis Making** 1989 Oct–Dec; 9(4):243–52
Teaching clinical decision analysis: implications for nutritional assessment management. Balla JI. **Med J Aust** 1989 Sep 18;151 Suppl:S32–6
Decision making in "near death" [letter; comment] **N Engl J Med** 1990 May 31;322(22):1604–6 Comment on: N Engl J Med 1990 Jan 18;322(3):208–10.
When competent patients make irrational choices. Brock DW, et al. **N Engl J Med** 1990 May 31;322(22):1595–9
Family decision making on trial. Who decides for incompetent patients? [see comments] Lo B, et al. **N Engl J Med** 1990 Apr 26;322(17):1228–32 Comment in: N Engl J Med 1990 Apr 26;322(17):1226–8.
Discrepancy between medical decisions for individual patients and for groups. Redelmeier DA, et al. **N Engl J Med** 1990 Apr 19;322(16):1162–4
Patterns of care and professional decision making in a New Zealand general practice sample. Davis PB, et al. **N Z Med J** 1990 Jul 11;103(893):309–12
Psychiatric decisions [letter] Jenner FA. **Nature** 1973 Apr 27;242(5400):621
Decision analysis [letter; comment] Dippel DW, et al. **Neurosurgery** 1989 Oct;25(4):668–70 Comment on: Neurosurgery 1989 Jan;24(1):129–35.
Application of decision analysis to unruptured arteriovenous malformations [letter; comment] Elstein AS, et al. **Neurosurgery** 1990 Mar;26(3):545–6 Comment on: Neurosurgery 1989 Jan;24(1):129–35.
Community health nurses. Their most significant ethical decision-making problems. Aroskar MA. **Nurs Clin North Am** 1989 Dec;24(4):967–75
Ethical decision making in clinical practice. Fowler MD. **Nurs Clin North Am** 1989 Dec;24(4):955–65 (28 ref.)
Ethical decision making for high-risk infants. The parents' perspective. Pinch WJ, et al. **Nurs Clin North Am** 1989 Dec;24(4):1017–23 (50 ref.)
Resource allocation decisions in critical care nursing. Reigle J. **Nurs Clin North Am** 1989 Dec;24(4):1009–15 (27 ref.)
Survey of health care executives reveals priorities for allocation of care. Kelly LS. **Nurs Outlook** 1990 May–Jun; 38(3):110
An essay on choices.... Noreika JC. **Ohio Med** 1989 Oct; 85(10):755–6
It's going, going ... not quite gone. Hogg PL. **Pa Med** 1989 Nov;92(11):40–3
Fumes from the spleen [letter] **Paediatr Perinat Epidemiol** 1990 Jan;4(1):4–6
Human factors in hazardous situations. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):449–593
Effective decisions and their verbal justification. Broadbent DE. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):493–502
Temporal decision making in complex environments. De Keyser V. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):569–76
Preliminary study of effect of decision making on locus of control among prison inmates. Murphy DG. **Psychol Rep** 1990 Apr;66(2):511–4
Models of integration given multiple sources of information. Massaro DW, et al. **Psychol Rev** 1990 Apr;97(2):225–52 (90 ref.)
Diazepam and decision making in the rat: negative evidence for reduced tolerance to reward delay. Ljungberg T. **Psychopharmacology (Berl)** 1990;102(1):117–21
Uses of data to plan cancer prevention and control programs. Boss LP, et al. **Public Health Rep** 1990 Jul–Aug; 105(4):354–60
Associative strength effects in the lexical decision task. Cañas JJ. **Q J Exp Psychol [A]** 1990 Feb;42(1):121–45
Spatial cueing and the relation between the accuracy of "where" and "what" decisions in visual search. Müller HJ, et al. **Q J Exp Psychol [A]** 1989 Nov;41(4):747–73
Under your calvarium. Brown University Program in Medicine 1989 commencement speech. Wachtel TJ. **R I Med J** 1990 Feb;73(2):75–7
Decision-making abilities of mothers with mental retardation. Tymchuk AJ, et al. **Res Dev Disabil** 1990;11(1):97–109
The relationship between task complexity and decision-making consistency. Hughes KK, et al. **Res Nurs Health** 1990 Jun;13(3):189–97
Risk within reason. Zeckhauser RJ, et al. **Science** 1990 May 4;248(4955):559–64
International perspectives on treatment choice in neonatal intensive care units. Levin BW. **Soc Sci Med** 1990; 30(8):901–12 (108 ref.)
How physicians deal with their own impending death [clinical conference] Clark DB, et al. **South Med J** 1990 Apr;83(4):441–7
Cost containment forces physicians into ethical and quality of care compromises. Justin RG. **Theor Med** 1989 Sep; 10(3):231–8
Personal health practices [editorial] Stellman JM. **Women Health** 1990;16(1):1–3
[Money or life (editorial)] Krasnik A. **Ugeskr Laeger** 1989 Dec 18;151(51):3463 **(Dan)**
[The Appleton Consensus. International guidelines for deciding to abandon treatment] Riis P. **Ugeskr Laeger** 1989 Dec 11;151(50):3408–12 **(Dan)**
[Ethical dilemmas in pediatrics: on competencies and qualifications in decision making] Christiaens M, et al. **Tijdschr Kindergeneeskd** 1989 Dec;57(6):205–10 (Eng. Abstr.) **(Dut)**
[Genetic counseling: values orientation of the counselor and his effect on the decision process of clients] Fässler-Trost A. **Psychother Psychosom Med Psychol** 1990 Jan; 40(1):27–32 (Eng. Abstr.) **(Ger)**
[Analytic report of the development of solutions in genetic counseling consultations] Rausch A, et al. **Z Klin Psychol Psychopathol Psychother** 1989;37(4):434–44 (Eng. Abstr.) **(Ger)**
[Better decisions—but how?] Nylenna M. **Tidsskr Nor Laegeforen** 1990 Mar 30;110(9):1063–4 **(Nor)**
[The decision process in induced abortion] Ytterstad TS, et al. **Tidsskr Nor Laegeforen** 1990 Jun 20;110(16):2096–7 (Eng. Abstr.) **(Nor)**
[Imperatives and possibilities in the informatics of therapeutic decision making in oncology. II.] Bild E. **Rev Med Chir Soc Med Nat Iasi** 1989 Oct–Dec; 93(4):777–82 **(Rum)**
[Mathematical bases of clinical decision-making] Dulbegović B, et al. **Med Arh** 1984;38(5):245–58 (Eng. Abstr.) **(Scr)**
[Methods of clinical ethics] Drane JF. **Bol Of Sanit Panam** 1990 May–Jun;108(5–6):415–25 (0 ref.) (Eng. Abstr.) **(Spa)**
[Ethical considerations in connection with uncertain therapeutic choices] **Lakartidningen** 1989 Sep 20; 86(38):3155–8 **(Swe)**
[It is the responsibility of parents to make sensible decisions] Bengtson L. **Lakartidningen** 1990 Jan 31;87(5):280 **(Swe)**
[What is right? What is wrong? Where should the limit be drawn?] Hollertz O. **Lakartidningen** 1989 Nov 22; 86(47):4100 **(Swe)**

DRUG EFFECTS

[Experimental model of heuristic decision making in experiments on rats for pharmacologic screening] Chernov IuN, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):96–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Disorders of decision in affective disease: an effect of beta-adrenergic dysfunction? Corwin J, et al. **Biol Psychiatry** 1990 Apr 15;27(8):813–33
Age differences in decision making: a process methodology for examining strategic information processing. Johnson MM. **J Gerontol** 1990 Mar;45(2):P75–8
[Changes in the space-time organization of the bioelectrical activity of the human brain on completing the solution of a mental task] Kiroĭ VN, et al. **Zh Vyssh Nerv Deiat** 1989 May–Jun;39(3):421–30 (Eng. Abstr.) **(Rus)**

DECISION MAKING, COMPUTER-ASSISTED

Expert systems in medicine. Pálmai O. **Acta Physiol Hung** 1989;73(2–3):379–81
The laboratory information system as a tool for implementing a strategic plan. Friedman BA. **Am J Clin Pathol** 1989 Oct; 92(4 Suppl 1):S38–43
Computer-assisted techniques for evaluation and treatment of hypertensive patients. Degoulet P, et al. **Am J Hypertens** 1990 Feb;3(2):156–63
Development of a decision algorithm for a semiautomatic defibrillator. Edwards DG. **Ann Emerg Med** 1989 Dec; 18(12):1276–9
Computer analysis in making preoperative decisions: a rational approach to lymph node dissection in gastric cancer patients. Kampschöer GH, et al. **Br J Surg** 1989 Sep;76(9):905–8
Determining optimal screening policies using decision trees and spreadsheets. Milsum JH. **Comput Biol Med** 1989; 19(4):231–43
Predicting 1-year outcome following acute myocardial infarction: physicians versus computers. Gilpin EA, et al. **Comput Biomed Res** 1990 Feb;23(1):46–63
Temporal representation of clinical algorithms using expert-system and database tools. Rucker DW, et al. **Comput Biomed Res** 1990 Jun;23(3):222–39
The feasibility of axiomatically-based expert systems. Langlotz CP. **Comput Methods Programs Biomed** 1989 Oct–Nov;30(2–3):85–95
Fuzzy model of inexact reasoning in medicine. Píš P, et al. **Comput Methods Programs Biomed** 1989 Sep;30(1):1–8
Potential effects of decision support systems on the role of the nurse. Sinclair VG. **Comput Nurs** 1990 Mar–Apr; 8(2):60–5
Accuracy of decisions to withdraw therapy in critically ill patients: clinical judgment versus a computer model. Chang RW, et al. **Crit Care Med** 1989 Nov;17(11):1091–7
KADIS—a computer-aided decision support system for improving the management of type-I diabetes. Rutscher A, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):137–47
Unsupervised learning and discriminant analysis applied to identification of high risk postoperative cardiac patients. Avanzolini G, et al. **Int J Biomed Comput** 1990 Apr; 25(2–3):207–21
Towards validation of expert systems as medical decision aids. Fieschi M. **Int J Biomed Comput** 1990 Jul; 26(1–2):93–108
Decision analysis: a framework for critical care decision assistance. Seiver A, et al. **Int J Clin Monit Comput** 1989 Jul;6(3):137–56
Computer-assisted interpretation in forensic toxicology: morphine-involved deaths. Spiehler VR. **J Forensic Sci** 1989 Sep;34(5):1104–15
A computer aid for choosing HMOs: design of a new interface. Alemi F, et al. **J Med Syst** 1989 Aug;13(4):215–20
Computer aided manual leucocyte differential counting. Eggert AA, et al. **J Med Syst** 1989 Jun;13(3):145–54
Identifying ICU patients who would not benefit from total parenteral nutrition. Chang RW, et al. **JPEN J Parenter Enteral Nutr** 1989 Sep–Oct;13(5):535–8
The use of efficiency linear programs for sensitivity analysis in medical decision making. Parkan C, et al. **Med Decis Making** 1990 Apr–Jun;10(2):116–25
"Desktop knowledge": a new focus for medical education and decision support. Greenes RA. **Methods Inf Med** 1989 Nov;28(4):332–9
Setting up a decision support system with decision tables.

Schwarz V, et al. **Methods Inf Med** 1989 Jul;28(3):126–32

Automating assistance for safety critical decisions. Fox J. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):555–67

Blood conservation in coronary artery bypass surgery: prediction with assistance of a computer model. Bilfinger TV, et al. **Thorac Cardiovasc Surg** 1989 Dec;37(6):365–8

[Prognosis decision system for acute myocardial infarction] Che ZZ, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Nov; 69(11):610–3, 42 (Eng. Abstr.) **(Chi)**

[Study of factors affecting prognosis of cervical cancer using a microcomputer] Yu SY. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;69(11):614–6, 42 (Eng. Abstr.) **(Chi)**

[ISA—Information System Anesthesia. Decision support by a computer-based information system] Zapf CL, et al. **Anaesthesist** 1990 Jul;39(7):384–9 (Eng. Abstr.) **(Ger)**

[Development of a system for model-based decision support for determining the bicarbonate concentration needed for acute dialysis] Thews O, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:89–90 **(Ger)**

[Caution in computer reliability. 4. Expert systems—artificial intelligence—computer critique] Wjst M. **Fortschr Med** 1990 Apr 30;108(13):71–5 (45 ref.) **(Ger)**

[Expert systems in laboratory medicine: an overview] Okada M. **Rinsho Byori** 1990 Apr;Spec No 84:81–8 **(Jpn)**

[Imperatives and possibilities in informatics of the therapeutic decision in oncology. I.] Bild E. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep;93(3):595–8 **(Rum)**

[Experience in computer-assisted construction of a decision rule for assessing the severity of the condition of patients with severe mechanical injuries during the posttraumatic period] Edeleva NV, et al. **Anesteziol Reanimatol** 1989 Jul–Aug;(4):49–53 (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

Legal issues related to medical decision support systems. Miller RA. **Int J Clin Monit Comput** 1989 Apr;6(2):75–80 (16 ref.)

DECISION MAKING, ORGANIZATIONAL

see related
DECISION SUPPORT TECHNICS
POLICY MAKING

Qualitative variables in medical school admission [see comments] McGaghie WC. **Acad Med** 1990 Mar; 65(3):145–9 (50 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Demographic variables in medical school admission [see comments] Nowacek G, et al. **Acad Med** 1990 Mar; 65(3):140–4 (34 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Moral dilemmas in medical school admission. Self DJ. **Acad Med** 1990 Mar;65(3):179–83

Help for the gatekeepers: comment and summation on the admission process [comment] Spooner CE Jr. **Acad Med** 1990 Mar;65(3):183–7 (12 ref.) Comment on: Acad Med 1990 Mar;65(3):136–9. Comment on: Acad Med 1990 Mar;65(3):140–4. Comment on: Acad Med 1990 Mar;65(3):145–9. Comment on: Acad Med 1990 Mar;65(3):149–58. Comment on: Acad Med 1990 Mar;65(3):161–6.

Democratic management principles. Involving the staff in decision making. Goodall R. **AORN J** 1990 Jun; 51(6):1553–7

Resuscitation decisions in a general hospital [see comments] Stewart K, et al. **BMJ** 1990 Mar 24;300(6727):785 Comment in: BMJ 1990 May 12;300(6734):1271–2.

Implications of working for patients for hospital medicine. Clarke K. **Br J Hosp Med** 1989 Sep;42(3):241

Synoptics and decision packages assist in planning. Harman R, et al. **Dimens Health Serv** 1990 Feb;67(1):21–3, 31

Technology assessors shape investment decisions. McConnell MC. **Dimens Health Serv** 1990 Mar;67(2):24–5

Sequential decision strategy of the AML Cooperative Group studies. Heinecke A, et al. **Hematol Bluttransfus** 1990; 33:290–4

Ethics committees and cost containment. Brock DW. **Hastings Cent Rep** 1990 Mar–Apr;20(2):29–31

Institutional agendas and ethics committees. Wikler D. **Hastings Cent Rep** 1989 Sep–Oct;19(5):21–3

An empirical investigation of the nature of hospital mission statements. Gibson CK, et al. **Health Care Manage Rev** 1990 Summer;15(3):35–45

Offering-level strategy formulation in health service organizations. Pointer DD. **Health Care Manage Rev** 1990 Summer;15(3):15–23

Selecting technologies for assessment. Eddy DM. **Int J Technol Assess Health Care** 1989;5(4):485–501

Perspectives used for gaining approval of budgets. Franks-Joiner GL. **J Nurs Adm** 1990 Jan;20(1):34–8

The influence of assumptions on effective decision-making. Johnson LJ. **J Nurs Adm** 1990 Apr;20(4):35–9

Participation, decision making, and job stress. Jolma DJ. **J Nurs Adm** 1990 Sep;20(9):50

Comfort and presence. Ferguson V. **J Prof Nurs** 1989 Nov-Dec;5(6):298

Creating an administrative structure to support faculty governance: a participatory process. Littlefield VM. **J Prof Nurs** 1989 Nov–Dec;5(6):336–44

The impact of corporate structures on physician inclusion and participation. Burns LR, et al. **Med Care** 1989 Oct; 27(10):967–82

All in favor say "aye"[editorial] Kelly LS. **Nurs Outlook** 1990 Sep–Oct;38(5):213

Optimizing physician involvement in information systems. Furry SL, et al. **Top Health Care Financ** 1990 Spring; 16(3):22–7

Conflict in health systems. Deeny J. **World Health Forum** 1989;10(3–4):403–7

DECISION SUPPORT SYSTEMS, MANAGEMENT see under **MANAGEMENT INFORMATION SYSTEMS**

DECISION SUPPORT TECHNICS

Selecting therapy for sustained ventricular tachycardias: importance of the sensitivity and specificity of programmed electrical stimulation for predicting arrhythmia recurrences. Stevenson WG, et al. **Am Heart J** 1990 Apr; 119(4):871–7

Decision analysis concerning the application of echocardiography to the diagnosis and treatment of mural thrombi after anterior wall acute myocardial infarction. Weintraub WS, et al. **Am J Cardiol** 1989 Oct 1; 64(12):708–16

Evaluation and therapy of the patient with fecal occult blood loss: a decision analysis. Lashner BA, et al. **Am J Gastroenterol** 1990 Sep;85(9):1088–95

Standard setting in occupational health: "philosophical" issues. Zielhuis RL, et al. **Am J Ind Med** 1989;16(5):569–98 (75 ref.)

Who is to decide: functional disability screening as an example [editorial] Neuhauser DB, et al. **Ann Intern Med** 1989 Nov 15;111(10):775–6

The role of skin testing for penicillin allergy. Redelmeier DA, et al. **Arch Intern Med** 1990 Sep;150(9):1939–45

Construction of clinical scoring systems [letter; comment] [see comments] Wyatt J. **BMJ** 1990 Feb 24;300(6723):538–9 Comment on: BMJ 1990 Jan 27;300(6719):223–6. Comment in: BMJ 1990 Apr 7;300(6729):940–1.

Extramural cross-validation of the Mayo primary biliary cirrhosis survival model establishes its generalizability. Grambsch PM, et al. **Hepatology** 1989 Nov;10(5):846–50

Diagnosis and decisions by algorithms. Kassirer JP, et al. **Hosp Pract [Off]** 1990 Mar 15;25(3):23–4, 27, 31

Outcome measurements in decision analysis: life versus quality of life. Nettleman MD. **Infect Control Hosp Epidemiol** 1989 Nov;10(11):521–4

Using decision analysis to assess the quality of quality assurance. Nettleman MD. **Infect Control Hosp Epidemiol** 1990 May;11(5):260–2

Decision analysis: a framework for critical care decision assistance. Seiver A, et al. **Int J Clin Monit Comput** 1989 Jul;6(3):137–56

Decision support alerts for clinical laboratory and blood gas data. Shabot MM, et al. **Int J Clin Monit Comput** 1990 Jan;7(1):27–31

Knowledge base design for decision support in respirator therapy. Shahsavar N, et al. **Int J Clin Monit Comput** 1989 Dec;6(4):223–31

ANABEL: intelligent blood-gas analysis in the intensive care unit. Zarkadakis G, et al. **Int J Clin Monit Comput** 1989 Jul;6(3):167–71

Eliciting and combining subjective judgments about uncertainty. Wolpert RL. **Int J Technol Assess Health Care** 1989;5(4):537–57

The role of imaging in screening for prostate cancer. A decision analysis perspective. Chang P, et al. **Invest Radiol** 1990 May;25(5):591–5

Factors influencing choice of procedure in transposition of the great arteries: a decision analysis approach. Danford DA. **J Am Coll Cardiol** 1990 Aug;16(2):471–5

Decision analysis in clinical cardiology: when is coronary angiography required in aortic stenosis? Georgeson S, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):751–62

Placement of cast restorations over direct pulp capping procedures: a decision analytic approach. Maryniuk GA, et al. **J Am Dent Assoc** 1990 Feb;120(2):183–7

Financial comparison of three testing strategies for detection of estrus in dairy cattle. Mohammed HO, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):865–9

Expert systems and the pancreatic cancer problem: decision support in the pre-operative diagnosis. Maceratini R, et al. **J Biomed Eng** 1989 Nov;11(6):487–510 (219 ref.)

Can decision analysis adequately represent clinical problems? Dolan JG. **J Clin Epidemiol** 1990;43(3):277–84

Decision analysis: a prescriptive method for decision and cost-effectiveness research. Davis JE. **J Fam Pract** 1989 Oct;29(4):367–9

Decision and cost-effectiveness analysis [letter; comment] Marley DS. **J Fam Pract** 1990 Feb;30(2):233, 236 Comment on: J Fam Pract 1989 Oct;29(4):372–6.

Zidovudine prophylaxis for needlestick exposure to human immunodeficiency virus: a decision analysis [see comments] Sacks HS, et al. **J Gen Intern Med** 1990 Mar-Apr; 5(2):132–7 Comment in: J Gen Intern Med 1990 May-Jun;5(3):265–7.

Using mathematical programming to assess the relative performance of the health care industry. Huang YG. **J Med Syst** 1989 Jun;13(3):155–62

Advanced Multi-Attribute Scoring Technique (AMAST): a model scoring methodology for the request for proposal (RFP). Mandell SF, et al. **J Med Syst** 1989 Jun;13(3):163–75

DMSS—a computer-based diabetes monitoring system. Zviran M, et al. **J Med Syst** 1989 Oct;13(5):293–308

The challenge [see comments] Eddy DM. **JAMA** 1990 Jan 12;263(2):287–90 Comment in: JAMA 1990 Jan 12;263(2):279–80.

Strategies for screening blood for human immunodeficiency virus antibody. Use of a decision support system. Schwartz JS, et al. **JAMA** 1990 Oct 3;264(13):1704–10

Decision analysis for management of solitary pulmonary nodules [letter] Lillington GA. **Mayo Clin Proc** 1990 Jul; 65(7):1029–30

The risks and benefits of an Rx-to-OTC switch. The case of over-the-counter H2-blockers. Oster G, et al. **Med Care** 1990 Sep;28(9):834–52

Whose utilities for decision analysis? Boyd NF, et al. **Med Decis Making** 1990 Jan–Mar;10(1):58–67

Using explicit decision rules to manage issues of justice, risk, and ethics in decision analysis: when is it not rational to maximize expected utility? Deber RB, et al. **Med Decis Making** 1990 Jul–Sep;10(3):181–94 (73 ref.)

Management of intracranial aneurysms, or how to report decision analyses in clinical journals [letter] Habbema JD, et al. **Med Decis Making** 1990 Jul–Sep;10(3):223–4

Do severity of disease classification tools change patient care? [editorial; comment] Hickam DH. **Med Decis Making** 1990 Jul–Sep;10(3):153–4 Comment on: Med Decis Making 1990 Jul–Sep;10(3):155–62. Comment on: Med Decis Making 1990 Jul–Sep;10(3):163–71.

Judicial and legislative viewpoints on physician misestimation of patient dysutilities: a problem for decision analysts. Mazur DJ. **Med Decis Making** 1990 Jul–Sep;10(3):172–80 (48 ref.)

The demise of the "Greek Oracle" model for medical diagnostic systems. Miller RA, et al. **Methods Inf Med** 1990 Jan;29(1):1–2 (14 ref.)

Inter-observer variation in decision-making regarding patients on chronic hemodialysis: a study using the kappa index. Timpka T, et al. **Methods Inf Med** 1990 Mar; 29(2):153–7

The GP's dilemmas: a study of knowledge need and use during health care consultations. Timpka T, et al. **Methods Inf Med** 1990 Jan;29(1):23–9

The use of decision analysis in quality assessment. Coleman RL. **QRB** 1989 Dec;15(12):383–91

Value of diagnostic tests for deep venous thrombosis: a decision analysis model. Venta LA, et al. **Radiology** 1990 Feb;174(2):433–9

Adjusting for baseline: change or percentage change? Kaiser L. **Stat Med** 1989 Oct;8(10):1183–90

Optimal choice of prognostic variables with an application to cardiac monitoring using M-mode echocardiography. Puterman ML, et al. **Stat Med** 1990 Mar;9(3):273–86

Latent class analysis of diagnostic agreement. Uebersax JS, et al. **Stat Med** 1990 May;9(5):559–72

[The role of a health information system as an aid in making regional public health decisions. Experience in Botswana (Southern Africa)] Tessier SF. **Med Trop (Mars)** 1989 Apr-Jun;49(2):163–9 (Eng. Abstr.) **(Fre)**

[Developments in decision support for intensified insulin therapy] Peters A, et al. **Internist (Berl)** 1990 Mar; 31(3):218–25 (19 ref.) **(Ger)**

[Clinical decision analysis] Fasoli A. **Ann Ital Med Int** 1986 Jun;1(2):175–85 (44 ref.) (Eng. Abstr.) **(Ita)**

[A decision analysis model in laboratory medicine—appropriate usage of microbiological examination in women with dysuria] Inoue Y. **Rinsho Byori** 1990 May;38(5):587–92 (Eng. Abstr.) **(Jpn)**

[The application of medical decision making to the mass screening: the basic principles on ROC analysis] Tsji I. **Rinsho Byori** 1990 May;38(5):597–600 (Eng. Abstr.) **(Jpn)**

[Decision support in medicine] Leão BD, et al. **Arq Bras Cardiol** 1989 May;52(5):239–41 (48 ref.) **(Por)**

[Analysis of clinical decisions] Rodríguez Artalejo F, et al. **Med Clin (Barc)** 1990 Mar 10;94(9):348–54 **(Spa)**

DECISION THEORY

Anxiety: towards a decision-theoretic perspective. Shechter M, et al. **Br J Math Stat Psychol** 1990 May;43 (Pt 1):15–28

Comparison of Bayesian with group sequential methods for monitoring clinical trials. Freedman LS, et al. **Controlled Clin Trials** 1989 Dec;10(4):357–67

Utilities and quality-adjusted life years. Torrance GW, et al. **Int J Technol Assess Health Care** 1989;5(4):559–75

A model for decision making regarding periodontal treatment needs. Wennström JL, et al. **J Clin Periodontol** 1990 Apr; 17(4):217–22

Chebyshev's theorem can provide some meaning to commercial laboratory reports [letter] Allen AD. **Med Decis Making** 1989 Oct–Dec;9(4):300

An economic theory of choice and its implications for suicide. Lester D. **Psychol Rep** 1990 Jun;66(3 Pt 2):1112–4

Measuring measuring errors. Healy MJ. **Stat Med** 1989 Aug; 8(8):893–906

DECISION TREES

Evaluation and treatment of adolescent substance abuse: a decision tree method. Tarter RE. **Am J Drug Alcohol Abuse** 1990;16(1–2):1–46

Choice of treatment for stage I floor-of-mouth cancer. A decision analysis. Velanovich V. **Arch Otolaryngol Head Neck Surg** 1990 Aug;116(8):951–6

Revised criteria for the classification of rheumatoid arthritis. Arnett FC. **Bull Rheum Dis** 1989;38(5):1–6

The setting of coronary angioplasty in multivessel disease: current status and future directions. Stertzer SH, et al. **Cardiol Clin** 1989 Nov;7(4):771–82

Determining optimal screening policies using decision trees and spreadsheets. Milsum JH. **Comput Biol Med** 1989; 19(4):231–43

RECPAM: a computer program for recursive partition amalgamation for censored survival data and other situations frequently occurring in biostatistics. II. Applications to data on small cell carcinoma of the lung (SCCL). Ciampi A, et al. **Comput Methods Programs Biomed** 1989 Dec;30(4):283–96

Analysis of clinical trial outcomes: alternative approaches to subgroup analysis. Schneider B. **Controlled Clin Trials** 1989 Dec;10(4 Suppl):176S–186S

Adverse drug reactions causing hospital admission in an elderly population: experience with a decision algorithm. Smucker WD, et al. **J Am Board Fam Pract** 1990 Apr–Jun; 3(2):105–9

Cognitive networking as a learning strategy. Richards J, et al. **J Biocommun** 1990;17(1):9–11

Screening for asymptomatic bacteriuria in pregnancy. A decision and cost analysis [see comments] Wadland WC, et al. **J Fam Pract** 1989 Oct;29(4):372–6 Comment in: J Fam Pract 1990 Feb;30(2):233, 236.

Alberta Assessment and Placement Instrument. Description and interrater reliability. McKenzie DA, et al. **Med Care** 1989 Oct;27(10):937–41

Knowing for the sake of knowing: the value of prognostic information. Asch DA, et al. **Med Decis Making** 1990 Jan–Mar;10(1):47–57

N-way sensitivity analysis: a verification and stability-assessment technique for completely subjective decision analysis trees. Hughes C, et al. **Med Decis Making** 1990 Jan–Mar;10(1):68–74

Automated critiquing of medical decision trees. Wellman MP, et al. **Med Decis Making** 1989 Oct–Dec;9(4):272–84

Evaluation of hip pain following cemented total hip arthroplasty. Horne G, et al. **Orthopedics** 1990 Apr; 13(4):415–9

Decision tree structure [letter; comment] Hayes KW, et al. **Phys Ther** 1989 Dec;69(12):1120–2 Comment on: Phys Ther 1989 Jul;69(7):569–76.

Exponential survival trees. Davis RB, et al. **Stat Med** 1989 Aug;8(8):947–61

[Forecasting strategies of hepatitis B vaccination based on decision tree model] Zhang SX. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Aug; 10(4):193–7 (Eng. Abstr.) **(Chi)**

[Nomenclature and medical decision trees, a solution in the discussion about economics and quality in health care?] Raes V. **Arch Belg** 1988;46(7–8):305–17 (Eng. Abstr.) **(Dut)**

[Carcinoembryonal antigen and the follow up of patients after resection of colon carcinoma with curative intent: a Markov process in decision analysis] Kievit J, et al. **Ned Tijdschr Geneeskd** 1989 Sep 9;133(36):1784–9 (Eng. Abstr.) **(Dut)**

[Tube feeding and decision policy] Mathus-Vliegen EM. **Ned Tijdschr Geneeskd** 1990 Jan 6;134(1):11–7 **(Dut)**

[The obstinacy of a profession] Vandenbroucke JP. **Ned Tijdschr Geneeskd** 1989 Dec 23;133(51):2540–2 **(Dut)**

[Clinical decision analysis] Fasoli A. **Ann Ital Med Int** 1986 Jun;1(2):175–85 (44 ref.) (Eng. Abstr.) **(Ita)**

[Analysis of clinical decisions] Rodríguez Artalejo F, et al. **Med Clin (Barc)** 1990 Mar 10;94(9):348–54 **(Spa)**

DECOMPRESSION

Primary duodenorrhaphy and nasogastric decompression in the treatment of duodenal injury. Böstman L, et al. **Acta Chir Scand** 1989 Jun–Jul;155(6–7):333–5

Effects of histamine H2-receptor blockade on the cardiovascular reflex response to lower-body negative pressure in man. Sjövall H, et al. **Acta Physiol Scand** 1990 May;139(1):161–72

Doppler echocardiographic-determined changes in left ventricular diastolic filling flow velocity during the lower body positive and negative pressure method. Takahashi T, et al. **Am J Cardiol** 1990 Jan 15;65(3):237–41

Rapid decompression to 50,000 feet: effect on heart rate response. Chopp CS, et al. **Aviat Space Environ Med** 1990 Jul;61(7):604–8

EEG changes measured by spectrum analysis under hyperbaric conditions. Dolmierski R, et al. **Aviat Space Environ Med** 1990 Jan;61(1):33–7

Cerebral tissue oxygen status and psychomotor performance during lower body negative pressure (LBNP). Glaister DH, et al. **Aviat Space Environ Med** 1990 Feb;61(2):99–105

Rapid decompression of a transport aircraft cabin: protection against hypoxia. Marotte H, et al. **Aviat Space Environ Med** 1990 Jan;61(1):21–7

Correlation of plasma norepinephrine and plasma atrial natriuretic factor during lower body negative pressure. Schmedtje JF Jr, et al. **Aviat Space Environ Med** 1990 Jun; 61(6):555–8

Peripheral vascular reflexes elicited during lower body negative pressure. Tripathi A, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1187–93

Reflex venomotor responses to lower body negative pressure following endurance training. Vroman NB, et al. **Aviat Space Environ Med** 1990 Apr;61(4):307–9

Should abdominal decompression be consigned to the history books? [editorial] Hofmeyr GJ. **Br J Obstet Gynaecol** 1990 Jun;97(6):467–9

Abdominal decompression: new data from a previous study. Hofmeyr GJ, et al. **Br J Obstet Gynaecol** 1990 Jun; 97(6):547–8

Lower-body suction and cardiovascular reflexes: physiological and applied considerations. Dikshit MB. **Indian J Physiol Pharmacol** 1990 Jan;34(1):3–12 (60 ref.)

Modeling dissolved and free phase gas dynamics under decompression. Wienke BR. **Int J Biomed Comput** 1990 Apr;25(2–3):193–205

Equivalent multi-tissue and thermodynamic decompression algorithms. Wienke BR. **Int J Biomed Comput** 1989 Dec; 24(4):227–45

Influence of alterations in loading produced by lower body negative pressure on aortic blood flow acceleration. Berk MR, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1069–74

Sustained increases in sympathetic outflow during prolonged lower body negative pressure in humans. Joyner MJ, et al. **J Appl Physiol** 1990 Mar;68(3):1004–9

Ten weeks of aerobic training do not affect lower body negative pressure responses [published erratum appears in J Appl Physiol 1990 May;68(5):2247] Lightfoot JT, et al. **J Appl Physiol** 1989 Aug;67(2):894–901

Effect of inert gas switching at depth on decompression outcome in rats. Lillo RS, et al. **J Appl Physiol** 1989 Oct; 67(4):1354–63

Intrapericardial denervation: radial artery blood flow and heart rate responses to LBNP. McKeever KH, et al. **J Appl Physiol** 1990 May;68(5):2208–13

Effect of hindlimb suspension on cardiovascular responses to sympathomimetics and lower body negative pressure. Overton JM, et al. **J Appl Physiol** 1990 Jan;68(1):355–62

Influence of the renin-angiotensin system on human forearm blood flow. Stadeager C, et al. **J Appl Physiol** 1990 Feb; 68(2):527–32

Circulatory and respiratory responses to lower body negative pressure in man. Ahn B, et al. **Jpn J Physiol** 1989; 39(6):919–29

[Does postoperative nasogastric decompression improve the surgically treated patient's comfort? Preliminary results (letter)] Leblanc I, et al. **Gastroenterol Clin Biol** 1990; 14(2):187–8 **(Fre)**

[A mechanical method for changing heart rate and blood pressure] Vaitl D. **Arch Psychol (Frankf)** 1989;141(1):49–69 (Eng. Abstr.) **(Ger)**

[Influence of preload alteration on the transmitral flow velocity in patients with old myocardial infarction: effects of nitroglycerin and lower body negative pressure] Tsukamoto T, et al. **J Cardiol** 1989 Mar;19(1):37–45 (Eng. Abstr.) **(Jpn)**

[A complex method of regional barotherapy of Raynaud's disease at a specialized polyclinic unit] Galimzianov FV. **Vestn Khir** 1989 Dec;144(12):46–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Effect of a central redistribution of fluid volume on response to lower-body negative pressure. Tomaselli CM, et al. **Aviat Space Environ Med** 1990 Jan;61(1):38–42

Decompression-induced hemostasis in mice: high altitude simulation in the Everest chamber. Murayama M. **Thromb Res** 1990 Mar 1;57(5):813–6

METHODS

[Decompression of deep divers] Gardette B. **Schweiz Z Sportmed** 1989 Aug;37(2):69–73; discussion 99–102 (Eng. Abstr.) **(Fre)**

[Interventional procedures in human practice dives in professional diving in France] Gavarry P. **Schweiz Z Sportmed** 1989 Aug;37(2):77–9; discussion 99–102 **(Fre)**

[Observations on the diving tables used by athletes] Sciarli R. **Schweiz Z Sportmed** 1989 Aug;37(2):74–6; discussion 99–102 (Eng. Abstr.) **(Fre)**

[Comparison of the readings of the digital decompression meter with hyperbaric chamber tests] Hahn M. **Schweiz Z Sportmed** 1989 Aug;37(2):89–92; discussion 99–102 (Eng. Abstr.) **(Ger)**

[Intestinal decompression in the treatment of gunshot abdominal wounds] Sapozhkov AIu. **Vestn Khir** 1989 Sep; 143(9):76–7 **(Rus)**

DECOMPRESSION, EXPLOSIVE see **DECOMPRESSION**

DECOMPRESSION SICKNESS

A case of decompression sickness in a commercial pilot. Wolf CW, et al. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 1):990–3

COMPLICATIONS

Inner ear decompression sickness combined with a fistula of the round window. Case report. Adkisson GH, et al. **Ann Otol Rhinol Laryngol** 1990 Sep;99(9 Pt 1):733–7

Bubble-induced dysfunction in acute spinal cord decompression sickness. Francis TJ, et al. **J Appl Physiol** 1990 Apr;68(4):1368–75

Right-to-left shunt and neurological decompression sickness in divers [letter] Cross SJ, et al. **Lancet** 1990 Sep 1; 336(8714):568

Retinal vessel constriction under hyperbaric conditions [letter] Polkinghorne PJ, et al. **Lancet** 1989 Nov 4; 2(8671):1099

Relation between interatrial shunts and decompression sickness in divers [see comments] Wilmshurst PT, et al. **Lancet** 1989 Dec 2;2(8675):1302–6 Comment in: Lancet 1990 Apr 14;335(8694):914–5.

[Pathogenesis of the neurologic form of decompression sickness in rabbits] Korolev AB. **Kosm Biol Aviakosm Med** 1989 Sep-Oct;23(5):92–3 **(Rus)**

DIAGNOSIS

Neurobehavioral and magnetic resonance imaging findings in two cases of decompression sickness. Levin HS, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1204–10

Probable bends at 14,000 feet: a case report. Voge VM. **Aviat Space Environ Med** 1989 Nov;60(11):1102–3

Analysis of neurologic symptoms in deep diving: implications for selection of divers. Todnem K, et al. **Undersea Biomed Res** 1990 Mar;17(2):95–107

EPIDEMIOLOGY

Threshold altitude resulting in decompression sickness. Kumar KV, et al. **Aviat Space Environ Med** 1990 Aug; 61(8):685–9

Relationship of menstrual history to altitude chamber decompression sickness. Rudge FW. **Aviat Space Environ Med** 1990 Jul;61(7):657–9

ETIOLOGY

Inner ear decompression sickness following a shallow scuba dive. Reissman P, et al. **Aviat Space Environ Med** 1990 Jun;61(6):563–6

Effect of inert gas switching at depth on decompression outcome in rats. Lillo RS, et al. **J Appl Physiol** 1989 Oct; 67(4):1354–63

Interatrial shunts and decompression sickness in divers [letter; comment] [see comments] Smith DJ, et al. **Lancet** 1990 Apr 14;335(8694):914–5 Comment on: Lancet 1989 Dec 2;2(8675):1302–6. Comment in: Lancet 1990 Jun 30;335(8705):1593.

Interatrial shunts and decompression sickness in divers [letter; comment] Smith DJ, et al. **Lancet** 1990 Jun 30; 335(8705):1593 Comment on: Lancet 1990 Apr 14;335(8694):914–5.

Acute decompression sickness in compressed air workers exposed to pressures below 1 bar in the Singapore Mass Rapid Transit project. How J, et al. **Singapore Med J** 1990 Apr;31(2):104–10

Acute decompression sickness in compressed air workers. Phoon WH. **Singapore Med J** 1990 Apr;31(2):99–100

Arterial gas embolism as a pathophysiologic mechanism for spinal cord decompression sickness. Francis TJ, et al. **Undersea Biomed Res** 1989 Nov;16(6):439–51

Relative decompression risk of dry and wet chamber air dives. Weathersby PK, et al. **Undersea Biomed Res** 1990 Jul;17(4):333–52

[121 cases of decompression disease] Pujante Escudero AP, et al. **Med Clin (Barc)** 1990 Feb 24;94(7):250–4 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Complement activation involvement in decompression sickness of rabbits. Ward CA, et al. **Undersea Biomed Res** 1990 Jan;17(1):51–66

PATHOLOGY

[Simulated diving tests in guinea pigs] Wang L. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1990;25(2):66–8, 125 (Eng. Abstr.) **(Chi)**

PHYSIOPATHOLOGY

Pulmonary hemodynamics, extravascular lung water and residual gas bubbles following low dose venous gas embolism in dogs. Butler BD, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1178–82

Somatosensory evoked potentials, electroencephalography and CT scans in the assessment of the neurological sequelae of decompression sickness. Yiannikas C, et al. **Clin Exp Neurol** 1988;25:91–6

Is the pattern of acute decompression sickness changing? Sykes JJ. **J R Nav Med Serv** 1989 Summer;75(2):69–73

[Physiologic respiratory aspects of diving] von Laak U. **Wien Med Wochenschr Suppl** 1987;103:12–6 (0 ref.) **(Ger)**

[A case of decompression sickness following saturation diving with transient deterioration during recompression therapy] Nitahara K, et al. **Sangyo Igaku** 1989 Nov;31(6):444–5 **(Jpn)**

[Methods of studying intracranial blood and cerebrospinal fluid circulation in chronic experimental decompression sickness] Korolev AB. **Kosm Biol Aviakosm Med** 1990 Jan–Feb;24(1):47–9 **(Rus)**

PREVENTION & CONTROL

Transport aircraft crew and decompression hazards: study of a positive pressure schedule. Marotte H, et al. **Aviat Space Environ Med** 1990 Aug;61(8):690–4

Scuba divers at risk of decompression sickness [letter] Tomlins R. **Med J Aust** 1990 Jun 4;152(11):615

RADIOGRAPHY

Does dysbaric osteonecrosis progress in the absence of further hyperbaric exposure? A 10-year radiologic follow-up of 15 patients. Van Blarcom ST, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):95–7

Dysbaric osteonecrosis (caisson disease). Scotter E, et al. **Radiogr Today** 1988 Oct;54(617):41–3

RADIONUCLIDE IMAGING

Diagnosis of dysbaric pathology. **Radiogr Today** 1989 Mar; 55(622):33

THERAPY

Initial table treatment of decompression sickness and arterial gas embolism. Bond JG, et al. **Aviat Space Environ Med** 1990 Aug;61(8):738–43

The treatment of decompression sickness. James PB. **Schweiz Z Sportmed** 1989 Aug;37(2):109–14; discussion 124–30 (24 ref.)

U.S. Navy experience with Treatment Table 5 (TT5) [letter] Clarke D. **Undersea Biomed Res** 1990 Jul;17(4):359–60

Treatment of type I decompression sickness using the U.S. Navy treatment algorithm. Green JW, et al. **Undersea Biomed Res** 1989 Nov;16(6):465–70

[Emergency treatment in decompression accidents in shipyards] Comet M. **Schweiz Z Sportmed** 1989 Aug; 37(2):115–9; discussion 124–30 (Eng. Abstr.) **(Fre)**

[Personal experience in hyperbaric oxygenation in decompression accidents] Ohresser P, et al. **Schweiz Z Sportmed** 1989 Aug;37(2):120–3; discussion 124–30 (Eng. Abstr.) **(Fre)**

[Principles of acute management of the severe diving accident] Lampl L, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):303–8 (Eng. Abstr.) **(Ger)**

[Recompression therapy in diving accidents—introduction, indication] Wendling J. **Schweiz Z Sportmed** 1989 Aug; 37(2):104–8; discussion 124–30 (Eng. Abstr.) **(Ger)**

DECONTAMINATION

Radioactive substances decontamination exercise. Heaton B, et al. **BMJ** 1990 Apr 28;300(6732):1121–2

Results of a cleanup and treatment test at the Nevada test site: evaluation of vacuum removal of Pu-contaminated soil. Shinn JH, et al. **Health Phys** 1989 Nov;57(5):771–9

Infection surveillance and selective decontamination of the digestive tract (SDD) in critically ill patients—results of a controlled study. Hartenauer U, et al. **Infection** 1990;18 Suppl 1:S22–30

How to improve infection prevention by selective decontamination of the digestive tract (SDD). Stoutenbeek CP, et al. **Infection** 1990;18 Suppl 1:S10–3

The incidence of gram-negative bacterial and fungal infections in liver transplant patients treated with selective decontamination. Wiesner RH. **Infection** 1990;18 Suppl 1:S19–21

Selective bowel decontamination results in gram-positive translocation. Jackson RJ, et al. **J Surg Res** 1990 May; 48(5):444–7

Effect of mixed ligand complex therapy on the retention of 95Nb and 144Ce in mice. Gachályi A, et al. **Radiat Res** 1989 Oct;120(1):177–81

[Possibilities of chemical detoxification of aflatoxin] Dvořák M. **Vet Med (Praha)** 1990 Jan;35(1):37–42 (Eng. Abstr.) **(Cze)**

[Report of the results of the SSK (Radiation Protection Commission) Working Group on personal decontamination] Pfob H. **Strahlenschutz Forsch Prax** 1990; 31:243–65 **(Ger)**

[Selective decontamination of intestinal flora with oral aztreonam in compromised children] Sakata H, et al. **Kansenshogaku Zasshi** 1989 Oct;63(10):1165–70 (Eng. Abstr.) **(Jpn)**

[Water decontamination by ions of heavy metals in the electric field within small residential areas (review)] Muzychuk NT. **Gig Sanit** 1990 Jan;(1):24–7 **(Rus)**

[Use of sorbents of cesium and strontium for internal decontamination of animals] Hrušovský J, et al. **Vet Med (Praha)** 1990 Jan;35(1):57–63 (47 ref.) **(Slo)**

METHODS

Medical monitoring of dioxin clean-up workers. Assennato G, et al. **Am Ind Hyg Assoc J** 1989 Nov;50(11):586–92

Using an enzymatic detergent to prerinse instruments. A research study. Kneedler JA, et al. **AORN J** 1990 May; 51(5):1326–32

Decontamination of landfill leachate by soil infiltration. Wong MH, et al. **Biomed Environ Sci** 1989 Dec;2(4):341–57

Degradation of ethidium bromide in alcohols. Lunn G, et al. **Biotechniques** 1990 Apr;8(4):372–3

Infection control, decontamination, and the clinical engineer. **Health Devices** 1989 Oct;18(10):353–7

Short-term parenteral antibiotics used as a supplement to SDD regimens. Alcock SR. **Infection** 1990;18 Suppl 1:S14–8

Review of available trials of selective decontamination of the digestive tract (SDD). van Saene HK, et al. **Infection** 1990;18 Suppl 1:S5–9 (26 ref.)

Nuclear, biological and chemical warfare. Part III: Medical aspects of chemical warfare. Kasthuri AS, et al. **J Assoc Physicians India** 1990 Jun;38(6):413–4

Polymerase chain reaction decontamination: the wipe test [letter] Cone RW, et al. **Lancet** 1990 Sep 15;336(8716):686–7

Decontaminating protective clothing offers challenge to manufacturers. Kairys CJ, et al. **Occup Health Saf** 1990 May;59(5):36, 39–40, 42

Decontamination of ethidium bromide spills [letter] Lunn G. **Trends Genet** 1990 Feb;6(2):31

[4 years after Chernobyl: medical repercussions] Hubert D. **Bull Cancer (Paris)** 1990;77(5):419–28 (31 ref.) (Eng. Abstr.) **(Fre)**

[New systems of cleaning contact lenses and the security of the wearer] Malbrel P, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1475–8 (Eng. Abstr.) **(Fre)**

[Principles of selective decontamination from the radiobiological point of view] Henseke P, et al. **Radiobiol Radiother (Berl)** 1990;31(3):243–6 (Eng. Abstr.) **(Ger)**

[A method of cleaning overalls contaminated with sodium cyanide] Beliakov AA, et al. **Gig Tr Prof Zabol** 1990; (3):47–9 (Eng. Abstr.) **(Rus)**

[Low-temperature regimens for the decontamination of fish of the larvae of Opisthorchis] Fattakhov RG. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):63–4 (Eng. Abstr.) **(Rus)**

[Reduction in the level of 239Pu in pulmonary tissue using octacin] Kabirova NR, et al. **Med Radiol (Mosk)** 1989 Oct; 34(10):58–60 (Eng. Abstr.) **(Rus)**

DECOQUINATE see under **HYDROXYQUINOLINES**

DECORTICATION, CEREBRAL CORTEX see **CEREBRAL DECORTICATION**

DECUBITUS ULCER

Innovations to prevent and treat pressure ulcers. Braden BJ, et al. **Geriatr Nurs (New York)** 1990 Jul–Aug;11(4):182–6

[Decubitus] Kanazawa K. **Nippon Ronen Igakkai Zasshi** 1990 Mar;27(2):129–31 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Bedsores—etiology, prevention and treatment] Lidman D, et al. **Lakartidningen** 1989 Nov 8;86(45):3880–2 **(Swe)**

CLASSIFICATION

Classification of pressure ulcers. Yarkony GM, et al. **Arch Dermatol** 1990 Sep;126(9):1218–9

COMPLICATIONS

[A decubitus ulcer in the sacral area complicated by osteomyelitis of the sacrum] Boshnakov K, et al. **Khirurgiia (Sofiia)** 1990;43(2):22–5 **(Bul)**

[Bacteremia secondary to decubitus ulcer] Espejo Arenas E, et al. **Med Clin (Barc)** 1989 Nov 18;93(16):604–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Pneumonia, UTI, and decubiti in the nursing home: optimal management. Yoshikawa TT. **Geriatrics** 1989 Oct; 44(10):32–4, 37–40, 43 (30 ref.)

Tropical ulcer [letter; comment] Smith CG. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):175–6 Comment on: Trans R Soc Trop Med Hyg 1988;82(2):185–9.

ETIOLOGY

A study of contact pressure points in specialised beds. Ryan DW, et al. **Clin Phys Physiol Meas** 1989 Nov;10(4):331–5

Risk factors for pressure sores. A comparison of cross-sectional and cohort-derived data. Berlowitz DR, et al. **J Am Geriatr Soc** 1989 Nov;37(11):1043–50

Paraplegic pressure sore frequency versus circulation measurements. Bennett L, et al. **J Rehabil Res Dev** 1990 Spring;27(2):115–26

Sitting forces and wheelchair mechanics. Gilsdorf P, et al. **J Rehabil Res Dev** 1990 Summer;27(3):239–46

[General and epidemiologic aspects of pressure sores] Shats V, et al. **Harefuah** 1990 Jun 15;118(12):687–91 (Eng. Abstr.) **(Heb)**

METABOLISM

Impaired migration of epidermal cells from decubitus ulcers in cell cultures. A cause of protracted wound healing? Seiler WO, et al. **Am J Clin Pathol** 1989 Oct;92(4):430–4

Pharmacokinetics of amikacin in serum and in tissue contiguous with pressure sores in humans with spinal cord injury. Segal JL, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1422–8

MICROBIOLOGY

The infected decubitus ulcer. Parish LC, et al. **Int J Dermatol** 1989 Dec;28(10):643–7 (35 ref.)

NURSING

Skin ulcers. Overview, nursing implications. Goodman T, et al. **AORN J** 1990 Jul;52(1):24–8, 30–1, 33–7 (10 ref.)

PATHOLOGY

A method for measuring pressure sores. Berg W, et al. **Lancet** 1990 Jun 16;335(8703):1445–6

[Expert assessment of decubitus ulcers] Eisenmenger W. **Beitr Gerichtl Med** 1989;47:345–7 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

The short-term outcome of pressure sores. Berlowitz DR, et al. **J Am Geriatr Soc** 1990 Jul;38(7):748–52

The recovery characteristics of soft tissues following repeated loading. Bader DL. **J Rehabil Res Dev** 1990 Spring;27(2):141–50

Method for the measurement of susceptibility to decubitus ulcer formation. Meijer JH, et al. **Med Biol Eng Comput** 1989 Sep;27(5):502–6

PREVENTION & CONTROL

Electric muscle stimulation for pressure sore prevention: tissue shape variation. Levine SP, et al. **Arch Phys Med Rehabil** 1990 Mar;71(3):210–5

Blood flow in the gluteus maximus of seated individuals during electrical muscle stimulation. Levine SP, et al. **Arch Phys Med Rehabil** 1990 Aug;71(9):682–6

Preventing pressure sores [letter] Welch CB. **BMJ** 1990 May 26;300(6736):1401

Aids to prevent pressure sores. Young JB. **BMJ** 1990 Apr 14;300(6730):1002–4 (13 ref.)

The role of alternating air and Silicore overlays in preventing decubitus ulcers. Conine TA, et al. **Int J Rehabil Res** 1990; 13(1):57–65

Reducing risk of pressure sores: effects of watch prompts and alarm avoidance on wheelchair push-ups. White GW, et al. **J Appl Behav Anal** 1989 Fall;22(3):287–95

Pressure sores and optimum skin care. Dolinger RD. **J Palliat Care** 1990 Spring;6(1):50–4

Electrical muscle stimulation for pressure variation at the seating interface. Levine SP, et al. **J Rehabil Res Dev** 1989 Fall;26(4):1–8

Factors affecting seat contour characteristics. Sprigle S, et al. **J Rehabil Res Dev** 1990 Spring;27(2):127–34

Reduction of sitting pressures with custom contoured cushions. Sprigle S, et al. **J Rehabil Res Dev** 1990 Spring; 27(2):135–40

Preventing pressure sores [editorial] [see comments] **Lancet** 1990 Jun 2;335(8701):1311–2 Comment in: Lancet 1990 Jun 30;335(8705):1595.

Prevention of pressure sores [letter; comment] Livesley B. **Lancet** 1990 Jun 30;335(8705):1595 Comment on: Lancet 1990 Jun 2;335(8701):1311–2.

Prevention of pressure sores [letter] Morris AM. **Lancet** 1990 Jul 28;336(8709):260

Pressure sores: do mattresses work? [letter] Young J, et al. **Lancet** 1990 Jul 21;336(8708):182–3

Pressure ulcers (bedsores or decubitus ulcers). Hendricks WM. **N C Med J** 1990 May;51(5):224–6

Decubitus ulcers. How to prevent them—and intervene should prevention fail. Shenaq SM, et al. **Postgrad Med** 1990 Mar;87(4):91–5

REHABILITATION

Guidelines for home air-fluidized bed therapy, 1989. Nimit K. **Health Technol Assess Rep** 1989;(5):1–11

SURGERY

Re: Ryan and Bieniewicz: regeneration of upper femur after subperiosteal resection [letter] Becker DW Jr. **Ann Plast Surg** 1986 Apr;16(4):362

Rhomboid flaps in surgery for decubital ulcers: indications and results. Lüscher NJ, et al. **Ann Plast Surg** 1986 May; 16(5):415–21

Myocutaneous flaps. Surgical treatment of severe pressure ulcers. Rubayi S, et al. **AORN J** 1990 Jul;52(1):40–7, 50, 52–5 (8 ref.)

Vastus lateralis myocutaneous flap: the treatment for trochanteric pressure sores in paraplegic patient. Rojviroj S, et al. **J Med Assoc Thai** 1989 Nov;72(11):629–32

"Sensible" flap coverage of pressure sores in patients with meningomyelocele. Lesavoy MA, et al. **Plast Reconstr Surg** 1990 Mar;85(3):390–4; discussion 395–6

The rehabilitation of pressure sores after myocutaneous flap surgery. Bih LI, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):387–93

[Treatment of pressure sore of the ischio-tuberosity region using an advancing V-Y long head of biceps femoris musculocutaneous flap from the thigh] Cai ZF. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Mar;6(1):36–7, 76 (Eng. Abstr.) **(Chi)**

[The bilobed tensor fascia lata myocutaneous flap transfer for treating a greater trochanteric pressure sore] Hou CL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Dec;3(4):286–7, 320 (Eng. Abstr.) **(Chi)**

[Myocutaneous flap in the treatment of pressure sores] Hou CL.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1989 Mar;5(1):30–1, 77 (Eng. Abstr.) **(Chi)**
[Use of a dufourmentel flap in repairing lumbosacral bed sore (a report of 7 cases)] Lu CX.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1989 Sep;5(3):197–8, 238 (Eng. Abstr.) **(Chi)**
[Value of proximate musculocutaneous flaps for covering open wounds caused by decubitus ulcers] Vassel B, et al. **J Chir (Paris)** 1990 Feb;127(2):103–6 (Eng. Abstr.) **(Fre)**
[The use of skin–muscle flaps in decubitus ulcer treatment] Boschnakov K, et al. **Zentralbl Chir** 1990;115(5):275–8 (Eng. Abstr.) **(Ger)**
[Anesthesia for Shy–Drager syndrome; effects of elastic bandage, phenylephrine, and IPPV] Harioka T, et al. **Masui** 1989 Jun;38(6):801–4 (Eng. Abstr.) **(Jpn)**

THERAPY

Rectus abdominis flap closure of ischiosacral pressure sore. Bunkis J, et al. **Ann Plast Surg** 1989 Nov;23(5):447–9
A randomized comparison of poly–hema and hydrocolloid dressings for treatment of pressure sores [letter] Brod M, et al. **Arch Dermatol** 1990 Jul;126(7):969–70
The efficacy of colostomy as a bowel management alternative in selected spinal cord injury patients. Saltzstein RJ, et al. **J Am Paraplegia Soc** 1990 Apr;13(2):9–13
Cost of skin care in the myelomeningocele population. Harris MB, et al. **J Pediatr Orthop** 1990 May–Jun;10(3):355–61
Decubitus ulcer treatment with the water flotation mattress. Spetalnick BM, et al. **J Tenn Med Assoc** 1989 Sep; 82(9):471–2
The prevention and management of pressure ulcers. Goode PS, et al. **Med Clin North Am** 1989 Nov;73(6):1511–24 (59 ref.)
Treatment of pressure ulcers. **Med Lett Drugs Ther** 1990 Feb 23;32(812):17–8
Tips of the trade #26. Treatment of amputation residual limb ulcers with a hydroactive dressing and continued weight bearing. Pinzur MS, et al. **Orthop Rev** 1990 Jul;19(7):638–40
Decubitus ulcers [letter] Rousseau P. **Postgrad Med** 1990 Aug;88(2):53
[Treatment of decubitus ulcer with Crilanomer and dextranomer] Esch B, et al. **Z Hautkr** 1989 Dec 15; 64(12):1135–8 (Eng. Abstr.) **(Ger)**

DECUSSATION, PYRAMIDAL see **PYRAMIDAL TRACTS**

DEDUCTIBLES AND COINSURANCE

The effect of office visit copayments on preventive care services in an HMO. Cherkin DC, et al. **Inquiry** 1990 Spring;27(1):24–38
The effect of office visit copayments on utilization in a health maintenance organization. [corrected and republished article originally printed in Med Care 1989; 27:669–79] Cherkin DC, et al. **Med Care** 1989 Nov;27(11):1036–45
The effect of managed care on health services use by dually eligible elders. Wan TT. **Med Care** 1989 Nov; 27(11):983–1001
National health insurance in America—the issue of copayment [letter; comment] Balog J. **West J Med** 1990 Jan;152(1):76 Comment on: West J Med 1989 Aug;151(2):210–6.

ECONOMICS

The forgiveness of coinsurance. Charity or cheating? Lachs MS, et al. **N Engl J Med** 1990 May 31;322(22):1599–602

LEGISLATION & JURISPRUDENCE

Waivers of insurance deductibles—charity or crime? Barton HM 3d. **Tex Med** 1990 Mar;86(3):64–6

DEER

Occurrence of intracytoplasmic inclusion bodies in the digestive epithelium of fallow deer (Dama dama L). Diaz R, et al. **Acta Vet Scand** 1989;30(3):301–5
Changes in muntjac fibroblasts associated with the acquisition of cadmium resistance. A pre–resistance, transitional and post–resistance study. Ord MJ, et al. **Arch Toxicol** 1990; 64(2):77–90
Lymphoproliferation in captive wild ruminants affected with malignant catarrhal fever: 25 cases (1977–1985). Blake JE, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1141–3
Pulmonary mycosis in farmed deer: allergic zygomycosis and invasive aspergillosis. Jensen HE, et al. **J Med Vet Mycol** 1989;27(5):329–34
Pleural mesothelioma in a European spotted fallow deer (Cervus dama). Byerly CS, et al. **J Wildl Dis** 1989 Oct; 25(4):597–8
Medicines—advice on their use in animals [letter] Meredith DJ. **Vet Rec** 1989 Oct 28;125(18):466
Effect of preslaughter experience on behaviour, plasma cortisol and muscle pH in farmed red deer. Smith RF, et al. **Vet Rec** 1990 Feb 17;126(7):155–8
Accuracy of pregnancy diagnosis and prediction of calving date in red deer using real–time ultrasound scanning. Wilson PR, et al. **Vet Rec** 1990 Feb 10;126(6):133–5
[Studies on methods of processing sika deer fetus] Yang XC. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct;14(10):598–600, 639 (Eng. Abstr.) **(Chi)**
[Relation of Fourier transform infrared spectroscopic characteristics of pilose antler and its traditional quality grade] Zhao D, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Jan;15(1):37–9, 63 (Eng. Abstr.) **(Chi)**
[Bacteriological studies of the problem "Epidemic losses in hares and deer in habitats with high cultivation of 00–rapeseed"] Böhnel H, et al. **Berl Munch Tierarztl Wochenschr** 1990 May 1; 103(5):167–72 (Eng. Abstr.) **(Ger)**
[Raising of fallow deer inside fences from the view of ethics and animal welfare] Bogner H. **DTW Dtsch Tierarztl Wochenschr** 1990 Apr;97(4):167–8 (Eng. Abstr.) **(Ger)**
[Unusual metaplasia of the deer lung] Rang HH. **Tierarztl Prax** 1990 Jun;18(3):243–4 (Eng. Abstr.) **(Ger)**
[Fibrosarcoma of the zygomatic bone in a fallow deer. Illustrated report] Thiel W. **Tierarztl Prax** 1990 Feb; 18(1):17–9 (Eng. Abstr.) **(Ger)**
[Hair alterations in trichophytosis of roe deer—a differential diagnosis for hair parakeratosis] Volmer K, et al. **Tierarztl Prax** 1990 Feb;18(1):21–3 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Light and scanning electron microscopy of fallow deer (Dama dama) spermatozoa. Gosch B, et al. **J Reprod Fertil** 1989 Sep;87(1):187–92
Rapid dwarfing of red deer on Jersey in the last interglacial. Lister AM. **Nature** 1989 Nov 30;342(6249):539–42
[Scanning electron microscopic studies of the kidney glomerulus of Pudu pudu (Molina, 1782), and a comparison with that of cattle, goats, sheep and angora rabbits] König HE, et al. **Tierarztl Prax** 1989;17(4):343–6 (Eng. Abstr.) **(Ger)**

BLOOD

Copper and cadmium binding proteins from liver and kidney of moose and reindeer. Wikner M, et al. **Arctic Med Res** 1988;47 Suppl 1:179–84
Two novel molecular isoforms of band 4.2 in Japanese Sika deer (Cervus nippon yesoensis, Heude) erythrocytes. Inaba M, et al. **Biochim Biophys Acta** 1990 Jan 15;1021(1):101–4
Plasma LH, FSH, testosterone, prolactin and androstenedione in male white–tailed deer after ACTH and dexamethasone administration. Bubenik GA, et al. **Comp Biochem Physiol [A]** 1990;95(1):163–9
Serum testosterone (T) and 5–alpha–dihydrotestosterone (DHT) in male fallow deer (Dama dama L.): seasonality and age dependence. Rolf HJ, et al. **Comp Biochem Physiol [A]** 1990;95(3):445–52
Blood and urinary profiles of free–ranging desert mule deer in Arizona. DelGiudice GD, et al. **J Wildl Dis** 1990 Jan; 26(1):83–9
Hematology in sika deer (Cervus nippon yesoensis Heude, 1884). Maede Y, et al. **Nippon Juigaku Zasshi** 1990 Feb; 52(1):35–41
Effects of Pasteurella haemolytica leukotoxin on neutrophils from white–tailed deer and several exotic ruminant species. Confer AW, et al. **Vet Res Commun** 1990;14(3):175–80

GENETICS

Genetic polymorphism of transferrin in fallow deer, Cervus dama L. Herzog S. **Anim Genet** 1989;20(4):421–6
On the banding patterns of the chromosomes of the Pudu pudu (PUDU). Petit P, et al. **Ann Genet** 1989;32(3):141–3
Regional differences in immunostainability of isolated metaphase chromosomes of Indian muntjac with anti–Z–DNA antibody. Ueda T, et al. **Chromosoma** 1990 Jul;99(3):161–8
Characterization of the heterochromatin in moose (Alces alces) chromosomes. Bianchi MS, et al. **Genetica** 1990; 80(1):1–7
Localization of cloned, repetitive DNA sequences in deer species and its implications for maintenance of gene territory. Scherthan H, et al. **Hereditas** 1990;112(1):13–20
Concerted evolution of ruminant stomach lysozymes. Characterization of lysozyme cDNA clones from sheep and deer. Irwin DM, et al. **J Biol Chem** 1990 Mar 25; 265(9):4944–52
Phylogeny and evolution of antlered deer determined from mitochondrial DNA sequences. Miyamoto MM, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6127–31
[Analysis of synaptonemal complexes in spermatocytes of the hybrid F1 between red deer and sika deer] Ma K, et al. **I Chuan Hsueh Pao** 1988;15(3):197–200 (Eng. Abstr.) **(Chi)**
[Comparative studies on synaptonemal complexes in spermatocytes of Chinese muntjac Muntiacus reevesi, black muntjac M. crinifrons and Indian muntjac M. muntjak] Ma K, et al. **I Chuan Hsueh Pao** 1988;15(4):282–9 (Eng. Abstr.) **(Chi)**

GROWTH & DEVELOPMENT

Bone formation and body composition of European elk: an ontogenetic model. Bartosiewicz L. **Acta Vet Hung** 1989; 37(1–2):55–68

IMMUNOLOGY

Tuberculosis in domesticated deer (Cervus elaphus): a large animal model for human tuberculosis. Buchan GS, et al. **J Comp Pathol** 1990 Jul;103(1):11–22
Identification of heterologous monoclonal antibodies that cross–react with cervine leukocyte subpopulations. Buchan GS, et al. **Vet Immunol Immunopathol** 1990 Mar; 24(3):247–57

METABOLISM

Bone metabolism during antler growth in female reindeer. Baksi SN, et al. **Calcif Tissue Int** 1989 Nov;45(5):314–7
Cesium–137 in moose diet; considerations on intake and accumulation. Von Bothmer S, et al. **Sci Total Environ** 1990 Feb;91:87–96

PARASITOLOGY

Potential for Lyme disease in Maine: deer survey of distribution of Ixodes dammini, the tick vector. Smith RP Jr, et al. **Am J Public Health** 1990 Mar;80(3):333–5
The susceptibility of different gastropod species to the infection with Varestrongylus sagittatus (Mueller, 1890) Dougherty, 1945. Rezáč P. **Folia Parasitol (Praha)** 1990; 37(2):141–9
Evaluation of random sampling for estimating density of winter ticks (Dermacentor albipictus) on moose (Alces alces) hides. Welch DA, et al. **Int J Parasitol** 1989 Sep; 19(6):691–3
Control of lone star ticks (Acari: Ixodidae) on Spanish goats and white–tailed deer with orally administered ivermectin. Miller JA, et al. **J Econ Entomol** 1989 Dec;82(6):1650–6
Status of Ixodes dammini (Acari: Ixodidae) in Illinois. Bouseman JK, et al. **J Med Entomol** 1990 Jul;27(4):556–60
Bioenergetic consequences of alopecia induced by Dermacentor albipictus (Acari: Ixodidae) on moose. Welch DA, et al. **J Med Entomol** 1990 Jul;27(4):656–60
Failure of white–tailed deer, Odocoileus virginianus L., to sustain a population of cattle ticks, Boophilus annulatus (Say), through successive generations. Davey RB. **J Parasitol** 1990 Jun;76(3):356–9
Cysticerci (Cestoda: Taeniidae) from white–tailed deer, Odocoileus virginianus, in southern Florida. Forrester DJ, et al. **J Parasitol** 1990 Aug;76(4):583–5
Prevalence of antibody to Toxoplasma gondii in the moose (Alces alces americana Clinton) of Nova Scotia, Canada. Siepierski SJ, et al. **J Parasitol** 1990 Feb;76(1):136–8
Can androgen deficiency promote an outbreak of psoroptic mange mites in male deer? Bubenik GA. **J Wildl Dis** 1989 Oct;25(4):639–42
An epizootic of besnoitiosis in captive caribou (Rangifer tarandus caribou), reindeer (Rangifer tarandus tarandus) and mule deer (Odocoileus hemionus hemionus). Glover GJ, et al. **J Wildl Dis** 1990 Apr;26(2):186–95
Bot fly larvae (Cephenemyia spp., Oestridae) in mule deer (Odocoileus hemionus) from Utah. McMahon DC, et al. **J Wildl Dis** 1989 Oct;25(4):636–8
Use of albendazole in feed to control Fascioloides magna infections in captive white–tailed deer (Odocoileus virginianus). Qureshi T, et al. **J Wildl Dis** 1990 Apr; 26(2):231–5
Transmission of Babesia odocoilei in white–tailed deer (Odocoileus virginianus) by Ixodes scapularis (Acari: Ixodidae). Waldrup KA, et al. **J Wildl Dis** 1990 Jul; 26(3):390–1
Comparative studies on Megatrypanum trypanosomes from cervids. Dirie MF, et al. **Trop Med Parasitol** 1990 Jun; 41(2):198–202
[Dictyocaulus species, lungworms in cattle and deer in The Netherlands] Jansen J, et al. **Tijdschr Diergeneeskd** 1990 Feb 15;115(4):155–8 (Eng. Abstr.) **(Dut)**
[Occurrence of tissue Filarioidea in ruminants in Poland] Demiaszkiewicz AW. **Wiad Parazytol** 1989;35(4):315–21 (Eng. Abstr.) **(Pol)**
[Harboring of helminth parasites by the European bison (Bison bonasus L.) and deer (Cervidae) in the Białowieza forest] Dróżdż J, et al. **Wiad Parazytol** 1989;35(6):571–6 (Eng. Abstr.) **(Pol)**
[Diurnal motor activity of Lipoptena cervi (L.) (Hippoboscidae: Diptera)] Kadulski S. **Wiad Parazytol** 1989;35(6):603–5 (Eng. Abstr.) **(Pol)**
[The elk—the intermediate host of Echinococcus granulosus in Yakutia] Isakov SI, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):58 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Reproduction in the red deer female and the effect of oestrogens on the antler cycle and behaviour. Jaczewski Z. **Acta Physiol Pol** 1989 Jan–Feb;40(1):85–95
Mandibular fluoride concentration and its relation to age in roe deer (Capreolus capreolus L.). Kierdorf U, et al. **Comp Biochem Physiol [A]** 1989;94(4):783–5
A comparison of the seasonal hormone changes and patterns of growth, voluntary food intake and reproduction in juvenile and adult red deer (Cervus elaphus) and Père David's deer (Elaphurus davidianus) hinds. Loudon AS, et al. **J Endocrinol** 1989 Sep;122(3):733–45
Effects of melatonin and a dopamine agonist and antagonist on seasonal changes in voluntary intake, reproductive activity and plasma concentrations of prolactin and tri–iodothyronine in red deer hinds. Milne JA, et al. **J Endocrinol** 1990 May;125(2):241–9
Use of urinary hormone assays for evaluating endocrine patterns associated with the long–day breeding season in

Eld's deer (Cervus eldi). Monfort SL, et al. **J Exp Zool Suppl** 1990;4:215–8

Melatonin can induce year-round ovarian cyclicity in red deer (Cervus elaphus). Adam CL, et al. **J Reprod Fertil** 1989 Sep;87(1):401–8

Temporal relationship between the onset of oestrus, the preovulatory LH surge and ovulation in farmed fallow deer, Dama dama. Asher GW, et al. **J Reprod Fertil** 1990 Jul;89(2):761–7

Pulsatile secretion of LH during the periovulatory and luteal phases of the oestrous cycle in the Père David's deer hind (Elaphurus davidianus). Loudon AS, et al. **J Reprod Fertil** 1990 Jul;89(2):663–70

Monitoring ovarian function and pregnancy in Eld's deer (Cervus eldi thamin) by evaluating urinary steroid metabolite excretion. Monfort SL, et al. **J Reprod Fertil** 1990 Jan;88(1):271–81

Fertility control in female white-tailed deer. Plotka ED, et al. **J Wildl Dis** 1989 Oct;25(4):643–6

Mammalian sex ratios and variation in costs of rearing sons and daughters. Gomendio M, et al. **Nature** 1990 Jan 18; 343(6255):261–3

Real-time ultrasonography for pregnancy diagnosis and estimation of fetal age in farmed red deer. Bingham CM, et al. **Vet Rec** 1990 Feb 3;126(5):102–6

[Further observations and considerations on the biological and reproductive cycle of the roe buck (Capreolus capreolus L.)] Gentile R, et al. **Boll Soc Ital Biol Sper** 1989 Jul;65(7):631–8 (Eng. Abstr.) **(Ita)**

DEET see under **BENZAMIDES**

DEFECATION

see related
ENCOPRESIS
FECAL INCONTINENCE

Bowel frequency in healthy children. Fontana M, et al. **Acta Paediatr Scand** 1989 Sep;78(5):682–4

Cold-restraint stress increases rat fecal pellet output and colonic transit. Barone FC, et al. **Am J Physiol** 1990 Mar; 258(3 Pt 1):G329–37

Trazodone for bowel obsession [letter; comment] Ramchandani D. **Am J Psychiatry** 1990 Jan;147(1):124 Comment on: Am J Psychiatry 1987 Oct;144(10):1347–8.

Detection of pseudodiarrhoea by simple clinical assessment of intestinal transit rate. O'Donnell LJ, et al. **BMJ** 1990 Feb 17;300(6722):439–40

Surgical correction of the efferent ileal limb for disordered defaecation following restorative proctocolectomy with the S ileal reservoir. Nicholls RJ, et al. **Br J Surg** 1990 Feb; 77(2):152–4

Contributions of evacuation proctography and anorectal manometry to evaluation of adults with constipation and defecatory difficulty. Wald A, et al. **Dig Dis Sci** 1990 Apr; 35(4):481–7

Defecography in patients with anorectal disorders. Which findings are clinically relevant? Felt-Bersma RJ, et al. **Dis Colon Rectum** 1990 Apr;33(4):277–84

Videoproctographic assessment after restorative proctocolectomy. Kmiot WA, et al. **Dis Colon Rectum** 1990 Jul;33(7):566–72

Puborectalis and external anal sphincter paralysis with preservation of fecal continence. Report of a case. Wakeman R, et al. **Dis Colon Rectum** 1989 Nov; 32(11):980–1

Restoration of gastrointestinal continuity and continence after abdominoperineal excision of the rectum using an electrically stimulated neoanal sphincter. Williams NS, et al. **Dis Colon Rectum** 1990 Jul;33(7):561–5

Rectal J pouch reservoir to decrease the frequency of tenesmus and defecation in low coloproctostomy. Wheeless CR Jr, et al. **Gynecol Oncol** 1989 Nov;35(2):136–8

'Defaecation claudication': a cause of rectal pain? Snooks SJ, et al. **J R Soc Med** 1989 Jun;82(6):371–2

Effect of educational intervention on defaecation habits in an Indian urban slum. Murthy GV, et al. **J Trop Med Hyg** 1990 Jun;93(3):189–93

Lower gut contents and defecatory responses of broiler chickens as affected by feed withdrawal and electrical treatment at slaughter. Papa CM, et al. **Poult Sci** 1989 Nov; 68(11):1478–84

Effect of acclimatization to an excreta-collection harness on excreta energy voided during a nitrogen-corrected true metabolizable energy bioassay. Sibbald IR, et al. **Poult Sci** 1989 Dec;68(12):1707–9

Defecography—a new technique for the study of disorders of defecation. Kelly-Mickus G. **Radiogr Today** 1989 Feb; 55(621):24–8

Dynamic imaging of defaecation—the video proctogram. Musk LC. **Radiogr Today** 1989 May;55(624):20–3

Radiation dose in defecography. Goei R, et al. **Radiology** 1990 Jul;176(1):137–9

[Solitary rectal ulcer syndrome. Defecography, functional investigations] Mahieu PH. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):161–5 **(Fre)**

[The spastic pelvic floor syndrome: definition in the double-exposure defecogram] Helzel MV. **Radiologe** 1989 Aug;29(8):377–81 (Eng. Abstr.) **(Ger)**

[Possibility of radiology in the study of defection disorders] Sandrone M, et al. **Minerva Chir** 1989 Sep 15;44(17):1911–6 (Eng. Abstr.) **(Ita)**

[Studies on colonic motor correlates of spontaneous defecation in conscious dogs] Matsushima Y. **Nippon Heikatsukin Gakkai Zasshi** 1989 Aug;25(4):137–46 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

The effects of cocaine on multivariate locomotor behavior and defecation. Zubrycki EM, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):155–9

Effect of coffee on distal colon function. Brown SR, et al. **Gut** 1990 Apr;31(4):450–3

Emesis and defecations induced by the 5-hydroxytryptamine (5-HT3) receptor antagonist zacopride in the ferret. King GL. **J Pharmacol Exp Ther** 1990 Jun;253(3):1034–41

Neuroleptic-induced emotional defecation: effects of pimozide and apomorphine. Sanberg PR. **Physiol Behav** 1989 Aug;46(2):199–202

The effect of loperamide on bowel habits and anal sphincter function in patients with ileoanal anastomosis. Emblem R, et al. **Scand J Gastroenterol** 1989 Oct;24(8):1019–24

PHYSIOLOGY

Defecation syncope caused by pulmonary embolism [letter] Kollef MH, et al. **Ann Intern Med** 1990 Jul 1;113(1):86

Exertional headaches with multiple triggers. Katchen MS. **Aviat Space Environ Med** 1990 Jan;61(1):49–51

Control of defecation in patients with spinal injuries by stimulation of sacral anterior nerve roots. MacDonagh RP, et al. **BMJ** 1990 Jun 9;300(6738):1494–7

Evaluation of normal subjects by defecographic technique. Selvaggi F, et al. **Dis Colon Rectum** 1990 Aug; 33(8):698–702

Sensory and motor responses to rectal distention vary according to rate and pattern of balloon inflation. Sun WM, et al. **Gastroenterology** 1990 Oct;99(4):1008–15

Defecography in normal volunteers: results and implications. Shorvon PJ, et al. **Gut** 1989 Dec;30(12):1737–49

Cardio-vascular events at defecation: are they unavoidable? Sikirov BA. **Med Hypotheses** 1990 Jul;32(3):231–3

Neurobiological aspects of the pelvic floor muscles involved in defecation. Dubrovsky B, et al. **Neurosci Biobehav Rev** 1990 Summer;14(2):157–68 (123 ref.)

Defecography: techniques for improved image quality. Rafert JA, et al. **Radiol Technol** 1990 May-Jun;61(5):368–73

Anorectal function in patients with defecation disorders and asymptomatic subjects: evaluation with defecography. Goei R. **Radiology** 1990 Jan;174(1):121–3

Levator-urethral reflex. A new reflex with clinical significance. Shafik A. **Urology** 1990 Jul;36(1):93–5

[Apropos of the article by M. Veyrac and colleagues (letter)] Chaussade S, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep; 13(8–9):749–50 **(Fre)**

[Defecometry: determination of objective parameters of defecation] Lestár B, et al. **Orv Hetil** 1990 Apr 14; 131(15):797–8, 801–2 (28 ref.) (Eng. Abstr.) **(Hun)**

DEFECTIVE INTERFERING PARTICLES see **DEFECTIVE VIRUSES**

DEFECTIVE INTERFERING VIRUSES see **DEFECTIVE VIRUSES**

DEFECTIVE VIRUSES

Prospects for the control of AIDS patients by introducing defective-HIV harbouring leukocytes. Berencsi G, et al. **Med Hypotheses** 1989 Dec;30(4):223–8 (78 ref.)

DRUG EFFECTS

Novel membrane-interactive ether lipid analogs that inhibit infectious HIV-1 production and induce defective virus formation. Kucera LS, et al. **AIDS Res Hum Retroviruses** 1990 Apr;6(4):491–501

[Comparative study of antiherpetic effect of 9-beta-D-xylofuranosyl- adenine and 9-beta-D-arabinofuranosyladenine and their inhibition of defective herpes simplex type 1 virus in a cell culture] Shobukhov VM, et al. **Vopr Virusol** 1989 Nov–Dec; 34(6):741–4 **(Rus)**

GENETICS

HIV-1 Gag mutants can dominantly interfere with the replication of the wild-type virus. Trono D, et al. **Cell** 1989 Oct 6;59(1):113–20

Transcriptionally defective retroviruses containing lacZ for the in situ detection of endogenous genes and developmentally regulated chromatin. Kerr WG, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 2:767–76

Characterization of the cryptic lambdoid prophage DLP12 of Escherichia coli and overlap of the DLP12 integrase gene with the tRNA gene argU. Lindsey DF, et al. **J Bacteriol** 1989 Nov;171(11):6197–205

Characterization of PBSX, a defective prophage of Bacillus subtilis. Wood HE, et al. **J Bacteriol** 1990 May; 172(5):2667–74

Detection of defective genomes in hepatitis A virus particles present in clinical specimens. Nüesch JP, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3475–80

Molecular cloning and characterization of a defective recombinant feline leukaemia virus associated with myeloid leukaemia. Tzavaras T, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):343–54

Functional interaction of nuclear transport-defective simian virus 40 large T antigen with chromatin and nuclear matrix. Deppert W, et al. **J Virol** 1990 Feb;64(2):838–46

In vitro construction of poliovirus defective interfering particles. Hagino-Yamagishi K, et al. **J Virol** 1989 Dec; 63(12):5386–92

Synthesis of hepadnavirus particles that contain replication-defective duck hepatitis B virus genomes in cultured HuH7 cells. Horwich AL, et al. **J Virol** 1990 Feb; 64(2):642–50

An intragenic revertant of a poliovirus 2C mutant has an uncoating defect. Li JP, et al. **J Virol** 1990 Mar; 64(3):1102–7

High-frequency leader sequence switching during coronavirus defective interfering RNA replication. Makino S, et al. **J Virol** 1989 Dec;63(12):5285–92

A temperature-sensitive mutant of Newcastle disease virus defective in intracellular processing of fusion protein. Matsumura H, et al. **J Virol** 1990 Mar;64(3):1410–3

Lack of ecotropic virus involvement in induction of lymphomas in DBA/2J mice by 7,12-dimethylbenz(a)anthracene. Mercer JA, et al. **J Virol** 1990 Oct;64(10):5199–203

Hepatitis B viruses with precore region defects prevail in persistently infected hosts along with seroconversion to the antibody against e antigen. Okamoto H, et al. **J Virol** 1990 Mar;64(3):1298–303

Replication and amplification of defective interfering particle RNAs of vesicular stomatitis virus in cells expressing viral proteins from vectors containing cloned cDNAs. Pattnaik AK, et al. **J Virol** 1990 Jun;64(6):2948–57

Defective viral DNA in Epstein-Barr virus-associated oral hairy leukoplakia. Patton DF, et al. **J Virol** 1990 Jan; 64(1):397–400

Infection of cultured central nervous system neurons with a defective herpes simplex virus 1 vector results in stable expression of Escherichia coli beta-galactosidase. Geller AI, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1149–53

Two oncogenes, v-fos and v-ras, cooperate to convert normal keratinocytes to squamous cell carcinoma. Greenhalgh DA, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):643–7

Mutation in NS2, a nonstructural protein of influenza A virus, extragenically causes aberrant replication and expression of the PA gene and leads to generation of defective interfering particles. Odagiri T, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5988–92

Defective viral DNA ameliorates symptoms of geminivirus infection in transgenic plants. Stanley J, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6291–5

v-src induces clonal sarcomas and rapid metastasis following transduction with a replication-defective retrovirus. Stoker AW, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):10123–7

Avian proto-myc genes promoted by defective or nondefective retroviruses are single-hit transforming genes in primary cells [published erratum appears in Proc Natl Sci U S A 1989 Nov;86(22):8747] Zhou RP, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7721–5

Identification of the site of recombination in the generation of the genome of DI particles of equine herpesvirus type 1. Yalamanchili RR, et al. **Virology** 1990 Apr;175(2):448–55

IMMUNOLOGY

Protection of mice from lethal influenza by adoptive transfer of non-neutralizing haemagglutination-inhibiting IgG obtained from the lungs of infected animals treated with defective interfering virus. McLain L, et al. **J Gen Virol** 1989 Oct;70 (Pt 10):2615–24

Cloning and expression of an immunodominant region of the hepatitis delta antigen. Saldanha J, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):471–5

METABOLISM

A DNA replication-positive mutant of simian virus 40 that is defective for transformation and the production of infectious virions. Peden KW, et al. **J Virol** 1990 Jun; 64(6):2912–21

PATHOGENICITY

Immunodeficiency and clonal growth of target cells induced by helper-free defective retrovirus. Huang M, et al. **Science** 1989 Dec 22;246(4937):1614–7

[Persistent infection in mice caused by the administration of a "defective" population of the influenza virus] Shcherbinskaia AM. **Mikrobiol Zh** 1983 Sep–Oct;45(5):71–5 (Eng. Abstr.) **(Rus)**

DEFECTS, EQUIPMENT see **EQUIPMENT FAILURE**

DEFENMETRAZIN see **PHENMETRAZINE**

DEFENSE MECHANISMS

Defence behaviour induced by hypochondriacal threat. Kukleta M. **Act Nerv Super (Praha)** 1990 Jun;32(2):153–4

Primary and secondary erotomania: clinical characteristics and follow-up. Gillett T, et al. **Acta Psychiatr Scand** 1990

Jul;82(1):65–9
The use of direct confrontation: the treatment-resistant schizophrenic patient. Rosberg J, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):352–8 (32 ref.)
Imaginary audience and personal fable: a brief review. Buis JM, et al. **Adolescence** 1989 Winter;24(96):773–81 (32 ref.)
Effects of rational emotive education on the rationality, neuroticism and defense mechanisms of adolescents. Kachman DJ, et al. **Adolescence** 1990 Spring;25(97):131–44
The structure of psychological defense mechanisms in women as a function of alcohol intoxication. Gustafson R, et al. **Alcoholism (N Y)** 1989 Dec;13(6):772–5
Rigidity in mentally retarded and nonretarded children. Kreitler S, et al. **Am J Ment Retard** 1990 Mar;94(5):550–62
Defense styles associated with specific anxiety disorders. Pollock C, et al. **Am J Psychiatry** 1989 Nov;146(11):1500–2
Common psychological defenses seen in the treatment of sexually abused adolescents. Shapiro S, et al. **Am J Psychother** 1990 Jan;44(1):68–74
Resistance during psychotherapy and behavior therapy. Verhulst JC, et al. **Behav Modif** 1990 Apr;14(2):172–87
Changes in the psychological defence system as a function of alcohol intoxication in men. Gustafson R, et al. **Br J Addict** 1989 Dec;84(12):1515–21
Emotional Stroop performance and the manic defence. Bentall RP, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):235–7
Anxiety and defence strategies in mothers of children with different disabilities. Ryde-Brandt B. **Br J Med Psychol** 1990 Jun;63 (Pt 2):183–92
A "hateful epileptic" patient in the burn unit [clinical conference] Wurzberger B, et al. **Gen Hosp Psychiatry** 1990 May;12(3):198–204
The role of fantasies, countertransference, and psychological defenses in patient violence. Dubin WR. **Hosp Community Psychiatry** 1989 Dec;40(12):1280–3 (26 ref.)
Cognitive strategies in hypnosis: toward resolving the hypnotic conflict. Bartis SP, et al. **Int J Clin Exp Hypn** 1990 Jul;38(3):168–82
Amelioration of transference resistance: substitute therapists in milieu group psychotherapy. Sperling MB, et al. **Int J Group Psychother** 1990 Jan;40(1):79–90
Depressive affect and its ideational content: a case study of dissatisfaction. Aarons ZA. **Int J Psychoanal** 1990;71 (Pt 2):285–96
Analysis without apparent resistance. Sterba RF. **Int J Psychoanal** 1990;71 (Pt 1):107–11
Schafer's contribution: comments on its continuity and development. Berman E. **Isr J Psychiatry Relat Sci** 1988; 25(3–4):191–7
Pseudoschizoid development: the little boy's dilemma. Horner AJ. **J Am Acad Psychoanal** 1989 Fall;17(3):501–3
The evolutionary functions of repression and the ego defenses. Nesse RM. **J Am Acad Psychoanal** 1990 Summer; 18(2):260–85
Ego analysis and the relativity of defense: technical implications of the structural theory. Apfelbaum B, et al. **J Am Psychoanal Assoc** 1989;37(4):1071–96 (20 ref.)
Intolerance of responsibility for internal conflict. Coen SJ. **J Am Psychoanal Assoc** 1989;37(4):943–64
Recent contributions to the theory of defense mechanisms: a comparative view. Cooper SH. **J Am Psychoanal Assoc** 1989;37(4):865–91 (47 ref.)
The development of the ego: biological and environmental specificity in the psychopathological developmental process and the selection and construction of ego defenses. Greenspan SI. **J Am Psychoanal Assoc** 1989;37(3):605–38
Emptiness as defense in severe regressive states. LaFarge L. **J Am Psychoanal Assoc** 1989;37(4):965–95
The changing person and the unchanging archetype. Hubback J. **J Anal Psychol** 1990 Apr;35(2):111–23
Stimulation in prefrontal cortex area inhibits cardiovascular and motor components of the defence reaction in rats. al Maskati HA, et al. **J Auton Nerv Syst** 1989 Nov; 28(2):117–25
Cardiovascular and motor components of the defence reaction elicited in rats by electrical and chemical stimulation in amygdala. al Maskati HA, et al. **J Auton Nerv Syst** 1989 Nov;28(2):127–31
Defensive coping and blood pressure reactivity in medical patients. Warrenburg S, et al. **J Behav Med** 1989 Oct; 12(5):407–24
Control or defense? Depression and the sense of control over good and bad outcomes. Mirowsky J, et al. **J Health Soc Behav** 1990 Mar;31(1):71–86
An examination of defense style in parents who abuse children. Brennan J, et al. **J Nerv Ment Dis** 1990 Sep; 178(9):592–5
Use of the TAT to measure change in defense mechanisms following intensive psychotherapy. Cramer P, et al. **J Pers Assess** 1990 Spring;54(1–2):236–51
Children's defensive responses and emotional upset following a disaster: a projective assessment. Dollinger SJ, et al. **J Pers Assess** 1990 Spring;54(1–2):116–27
Rorschach assessment of primitive defenses: a review. Lerner PM. **J Pers Assess** 1990 Spring;54(1–2):30–46 (53 ref.)
The relationship between defenses and symptoms in adolescent psychopathology. Noam GG, et al. **J Pers Assess** 1990 Spring;54(1–2):311–27
Interaction between affect and cognition in word perception. Kitayama S. **J Pers Soc Psychol** 1990 Feb;58(2):209–17
The relationship between repressive and defensive coping styles and blood pressure responses in healthy, middle-aged men and women. King AC, et al. **J Psychosom Res** 1990; 34(4):461–71
DMI–measured defenses and HIV–related risk behaviors in i.v. compared to non–i.v. substance abusers. Ottomanelli G, et al. **J Subst Abuse Treat** 1989;6(4):251–6
Psychological defence mechanisms in patients with pain. Tauschke E, et al. **Pain** 1990 Feb;40(2):161–70
LY 171555–induced catalepsy and defensive behavior in four strains of mice suggest the involvement of different D2 dopamine receptor systems. Puglisi–Allegra S, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):327–31
Effects of scopolamine on antipredator defense reactions in wild and laboratory rats. Rodgers RJ, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):575–83
The role of D1 and D2 receptors in dopamine agonist–induced modulation of affective defense behavior in the cat. Sweidan S, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):491–9
The psychoanalyst's use of tact. Sledge W. **Psychoanal Study Child** 1989;44:137–47
Age, ego level, and the life–span development of coping and defense processes. Labouvie–Vief G, et al. **Psychol Aging** 1987 Sep;2(3):286–93
Psychological defense mechanisms and manifest anxiety as indicators of secondary psychosomatic body pain. Gustafson R, et al. **Psychol Rep** 1990 Jun;66(3 Pt 2):1283–92
Self–rated defense style, life stress, and health status: an empirical assessment. Flannery RB Jr, et al. **Psychosomatics** 1990 Summer;31(3):313–20
Prediction of physical indisposition with the help of a questionnaire for measuring denial and overcompensation. Trijsburg RW, et al. **Psychother Psychosom** 1989; 51(4):193–202
Lateralization of defence mechanisms in a visual half–field paradigm. Carlsson I. **Scand J Psychol** 1989;30(4):296–303
[A study of protective mechanisms in child psychiatry] Aro H. **Duodecim** 1989;105(18):1520–2 **(Fin)**
[Generalized nocifensive reflexes. I. Methodologic bases] Kmietzyk HJ. **EEG EMG** 1990 Mar;21(1):7–12 (Eng. Abstr.) **(Ger)**
[Comments on the concept of the so–called negative therapeutic reaction] Schubart W. **Psyche (Stuttg)** 1989 Dec;43(12):1071–93 (47 ref.) (Eng. Abstr.) **(Ger)**
[Change in conflict management in inpatient psychotherapy. A psychometric study of defense behavior] Liedtke R, et al. **Z Psychosom Med Psychoanal** 1990;36(1):79–88 (Eng. Abstr.) **(Ger)**
[Secrets as psychotic defenses of personal identity] Jaretti Sodano A, et al. **Minerva Psichiatr** 1990 Jan–Mar; 31(1):37–8 (Eng. Abstr.) **(Ita)**
[Methods of defense against anxiety and self concept of patients with leukemia] Wrona–Polańska H. **Pol Tyg Lek** 1989 May 15;44(20):446–8 (Eng. Abstr.) **(Pol)**

DEFENSIVE MEDICINE see under **MALPRACTICE**

DEFEROXAMINE

Gamma and pulse radiolysis investigation of the reaction of desferrioxamine with superoxide anions [published erratum appears in Int J Radiat Biol 1990 Feb;57(2):448] Sabourault D, et al. **Int J Radiat Biol** 1989 Dec;56(6):911–21
Oxygen–based free radical generation by ferrous ions and deferoxamine. Klebanoff SJ, et al. **J Biol Chem** 1989 Nov 25;264(33):19765–71
A promising approach for improving the recovery of heart transplants. Prevention of free radical injury through iron chelation by deferoxamine. Menasché P, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):13–21

ADMINISTRATION & DOSAGE

Continuous arteriovenous hemofiltration in experimental iron intoxication. Banner W Jr, et al. **Crit Care Med** 1989 Nov; 17(11):1187–90
Desferrioxamine in the treatment of porphyria cutanea tarda: ineffectiveness of intramuscular administration. Muñoz JJ, et al. **J Dermatol** 1990 May;17(5):329–31
Rapid removal of excessive iron in thalassemia by high–dose intravenous chelation therapy [letter; comment] Sabatino D. **J Pediatr** 1990 Jan;116(1):157–8 Comment on: J Pediatr 1989 Jul;115(1):151–5.
Aluminum removal in uremic patients after desferrioxamine infusion: is hemofiltration more effective than hemodialysis? [letter; comment] Winterberg B, et al. **Nephron** 1990;54(2):179 Comment on: Nephron 1989;51(3):325–9.
[Subcutaneous administration of deferoxamine in a patient with panmyelopathy and post–transfusion hemosiderosis] Zdziarska B, et al. **Pol Arch Med Wewn** 1987 Jul; 78(1):48–51 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

Toxic effects associated with the administration of deferoxamine in the premature baboon with hyaline membrane disease. deLemos RA, et al. **Am J Dis Child** 1990 Aug;144(8):915–9
Pulmonary syndrome in patients with thalassemia major receiving intravenous deferoxamine infusions. Freedman MH, et al. **Am J Dis Child** 1990 May;144(5):565–9
Acute changes in renal function associated with deferoxamine therapy [letter] Li Volti S, et al. **Am J Dis Child** 1990 Oct; 144(10):1069–70
Cerebrospinal fluid aluminum levels following deferoxamine. Ellenberg R, et al. **Am J Kidney Dis** 1990 Aug;16(2):157–9
Mucormycosis: association with deferoxamine therapy. Daly AL, et al. **Am J Med** 1989 Oct;87(4):468–71 (40 ref.)
Desferrioxamine ototoxicity: evaluation of risk factors in thalassaemic patients and guidelines for safe dosage. Porter JB, et al. **Br J Haematol** 1989 Nov;73(3):403–9
Acute bone marrow aplasia associated with intravenous administration of deferoxamine (desferrioxamine). Sofroniadou K, et al. **Drug Saf** 1990 Mar–Apr;5(2):152–4
Vision and hearing during deferoxamine therapy. Cohen A, et al. **J Pediatr** 1990 Aug;117(2 Pt 1):326–30
Pseudo deep–vein thrombosis following desferrioxamine infusion: a previously unreported adverse reaction? [letter] Jacobs P, et al. **Lancet** 1990 Sep 29;336(8718):815
Effects of iron and desferrioxamine on Rhizopus infection. Abe F, et al. **Mycopathologia** 1990 May;110(2):87–91
Effect of age at the start of iron chelation therapy on gonadal function in beta–thalassemia major. Bronspiegel–Weintrob N, et al. **N Engl J Med** 1990 Sep 13;323(11):713–9
Fatal cardiac zygomycosis in a renal transplant patient treated with desferrioxamine. Hamdy NA, et al. **Nephrol Dial Transplant** 1989;4(10):911–3
Exacerbation of aluminium encephalopathy after treatment with desferrioxamine [letter] Lillevang ST, et al. **Nephrol Dial Transplant** 1989;4(7):676
Deferoxamine does not increase the risk for bacteremia in hemodialysis patients. Tielemans C, et al. **Nephron** 1989; 53(3):276–7
[Pigmentary changes of the retina in dialysis patients treated with deferoxamine] Mathys B, et al. **Bull Soc Belge Ophtalmol** 1988;229:49–60 (Eng. Abstr.) **(Fre)**
[Ototoxicity of desferrioxamine in hemodialyzed patients] Sabater F, et al. **Acta Otorrinolaringol Esp** 1989 Jan–Feb; 40(1):13–6 (Eng. Abstr.) **(Spa)**

ANALYSIS

Determination of desferrioxamine–available iron in biological tissues by high–pressure liquid chromatography. Gower JD, et al. **Anal Biochem** 1989 Jul;180(1):126–30
Simultaneous determination of desferrioxamine and ferrioxamine by high–performance liquid chromatography with amperometric detection. Glennon JD, et al. **J Chromatogr** 1990 May 18;527(2):481–9

DIAGNOSTIC USE

Four–hour measurement of urinary iron excretion after deferoxine treatment: a rapid, simple method for study of iron excretion. Bonkovsky HL, et al. **Am J Gastroenterol** 1990 May;85(5):554–7
[Evaluation of thrombus scintigraphy using 67Ga–deferoxamine–dialdehydestarch–fibrinogen in patients with internal A–V shunt] Yamazaki J, et al. **Radioisotopes** 1990 Jun;39(6):268–71 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Separation and identification of desferrioxamine and its iron chelating metabolites by high–performance liquid chromatography and fast atom bombardment mass spectrometry: choice of complexing agent and application to biological fluids. Singh S, et al. **Anal Biochem** 1990 Jun; 187(2):212–9

METABOLISM

Ferrioxamine and its hexadentate iron–chelating metabolites in human post–desferal urine studied by high–performance liquid chromatography and fast atom bombardment mass spectrometry. Lehmann WD, et al. **Anal Biochem** 1990 Feb 1;184(2):219–27
Ferrioxamine transport mutants and the identification of the ferrioxamine receptor protein (FoxA) in Erwinia herbicola (Enterobacter agglomerans). Berner I, et al. **Biol Met** 1990; 2(4):197–202
Sequence of the fhuE outer–membrane receptor gene of Escherichia coli K12 and properties of mutants. Sauer M, et al. **Mol Microbiol** 1990 Mar;4(3):427–37

PHARMACOKINETICS

Ferrioxamine and its hexadentate iron–chelating metabolites in human post–desferal urine studied by high–performance liquid chromatography and fast atom bombardment mass spectrometry. Lehmann WD, et al. **Anal Biochem** 1990 Feb 1;184(2):219–27
An ovine model of maternal iron poisoning in pregnancy. Curry SC, et al. **Ann Emerg Med** 1990 Jun;19(6):632–8
Desferrithiocin and desferrioxamine B. Cellular pharmacology and storage iron mobilization. Jin Y, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3233–40
Comparison of deferoxamine pharmacokinetics between asymptomatic thalassemic children and those exhibiting severe neurotoxicity. Bentur Y, et al. **Clin Pharmacol Ther** 1990 Apr;47(4):478–82
The interactions of desferrioxamine and hydroxypyridone compounds with haemoglobin and erythrocytes. Rice–Evans C, et al. **FEBS Lett** 1989 Oct 9;256(1–2):17–20

Kinetics and efficacy of deferoxamine in iron-overloaded hemodialysis patients. Stivelman J, et al. **Kidney Int** 1989 Dec;36(6):1125–32

PHARMACOLOGY

Effect of desferrioxamine B on hemolysis in glucose-6-phosphate dehydrogenase deficiency. Khalifa AS, et al. **Acta Haematol (Basel)** 1989;82(3):113–6

Desferrioxamine improves neutrophil phagocytosis in thalassemia major. Cantinieaux B, et al. **Am J Hematol** 1990 Sep;35(1):13–7

Scavengers of active oxygen species prevent cigarette smoke-induced asbestos fiber penetration in rat tracheal explants. Churg A, et al. **Am J Pathol** 1989 Oct; 135(4):599–603

Mineral balance (iron, aluminum, copper, zinc) after high-dose intravenous Desferal in a child with hemoglobin Hammersmith and Turner's syndrome. Hyman CB, et al. **Am J Pediatr Hematol Oncol** 1989 Winter;11(4):450–5

Novel uses of deferoxamine. Weinberg K. **Am J Pediatr Hematol Oncol** 1990 Spring;12(1):9–13 (25 ref.)

Role of oxidants in ischemia/reperfusion-induced granulocyte infiltration. Zimmerman BJ, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G185–90

The effect of liposome-entrapped desferrioxamine on Leishmania donovani in vitro. Segovia M, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):357–60

Prooxidant action of desferrioxamine: enhancement of alkaline phosphatase inactivation by interaction with ascorbate system. Mordente A, et al. **Arch Biochem Biophys** 1990 Mar;277(2):234–40

Mechanism of protection of alveolar type II cells against paraquat-induced cytotoxicity by deferoxamine. van der Wal NA, et al. **Biochem Pharmacol** 1990 Jun 1; 39(11):1665–71

Desferrioxamine and membrane oxidation: radical scavenger or iron chelator? Hartley A, et al. **Biochem Soc Trans** 1989 Dec;17(6):1002–3

Differential effects of liposome-entrapped desferrioxamine on proliferation and erythroid differentiation of murine erythroleukemic Friend cells. Nastruzzi C, et al. **Biochim Biophys Acta** 1989 Sep 4;1013(1):36–41

Factors influencing the formation of methemoglobin in desferrioxamine loaded erythrocytes. Hellwig U. **Biomed Biochim Acta** 1990;49(2–3):S340–3

Synergistic inhibition of lymphoid tumor growth in vitro by combined treatment with the iron chelator deferoxamine and an immunoglobulin G monoclonal antibody against the transferrin receptor. Kemp JD, et al. **Blood** 1990 Sep 1;76(5):991–5

Stage-dependent effect of deferoxamine on growth of Plasmodium falciparum in vitro. Whitehead S, et al. **Blood** 1990 Sep 15;76(6):1250–5

The effect of desferrioxamine on lipid peroxidation and survival of ischaemic island skin flaps in rats. Green CJ, et al. **Br J Plast Surg** 1989 Sep;42(5):565–9

Correspondence Re: David L. Becton and Barbara Roberts. Antileukemic effects of deferoxamine on human myeloid leukemia cell lines. Cancer Res., 49:4809–4812, 1989 [letter] Poot M, et al. **Cancer Res** 1990 Aug 15;50(16):5204

Lindane-induced liver oxidative stress: respiratory alterations and the effect of desferrioxamine in the isolated perfused rat liver. Videla LA, et al. **Cell Biochem Funct** 1989 Jul; 7(3):179–83

The inhibitory effect of deferoxamine on DNA synthesis in human lymphocytes. Wang ST, et al. **Chin Med J [Engl]** 1989 Dec;102(12):902–5

High performance liquid chromatography methods for studying protein binding of aluminium in human serum in the absence and in the presence of desferrioxamine. García Alonso JI, et al. **Clin Chim Acta** 1990 Jul;189(1):69–79

Desferrioxamine as a lipid chain-breaking antioxidant in sickle erythrocyte membranes. Hartley A, et al. **FEBS Lett** 1990 May 7;264(1):145–8

Protection against tissue damage in vivo by desferrioxamine: what is its mechanism of action? Halliwell B. **Free Radic Biol Med** 1989;7(6):645–51 (71 ref.)

Inhibition of hypochlorous acid-mediated reactions by desferrioxamine. Implications for the mechanism of cellular injury by neutrophils. Vissers MC, et al. **Free Radic Biol Med** 1990;8(4):331–7

The suppression of iron release from activated myoglobin by physiological electron donors and by desferrioxamine. Rice-Evans C, et al. **Free Radic Res Commun** 1989; 7(1):45–54

Effect of iron and desferoxamine on cell growth and in vitro ferritin synthesis in human hepatoma cell lines. Hann HW, et al. **Hepatology** 1990 Apr;11(4):566–9

Prevention of hepatocyte injury and lipid peroxidation by iron chelators and alpha-tocopherol in isolated iron-loaded rat hepatocytes. Sharma BK, et al. **Hepatology** 1990 Jul; 12(1):31–9

Partial correction of chromosome instability in Fanconi anemia by desferrioxamine [letter; comment] Poot M, et al. **Hum Genet** 1990 May;84(6):581–3 Comment on: Hum Genet 1989 Aug;83(1):49–51.

Desferrioxamine-induced alterations in hepatic iron distribution, DNA damage and lipid peroxidation in control and 2,3,7,8-tetrachlorodibenzo-p-dioxin-treated rats. Wahba ZZ, et al. **J Appl Toxicol** 1990 Apr;10(2):119–24

Free radicals mediate peroxidative damage in guinea pig hippocampus in vitro. Pellmar TC, et al. **J Neurosci Res** 1989 Nov;24(3):437–44

Iron depletion or chelation reduces ischemia/reperfusion-induced edema in gerbil brains. Patt A, et al. **J Pediatr Surg** 1990 Feb;25(2):224–7; discussion 227–8

Effects of deferoxamine, feroxamine and iron on experimental mucormycosis (zygomycosis). Van Cutsem J, et al. **Kidney Int** 1989 Dec;36(6):1061–8

Effect of deferoxamine mesylate on the growth of mucorales. Niimi O, et al. **Nephron** 1989;53(3):281–2

Deferoxamine decreases necrosis in dorsally based pig skin flaps. Weinstein GS, et al. **Otolaryngol Head Neck Surg** 1989 Nov;101(5):559–61

Role of iron in carrageenan-induced granuloma: action of desferrioxamine and indometacin. Mitjavila MT, et al. **Pharmacology** 1990;40(4):236–40

Allopurinol and deferoxamine improve canine lung preservation. Bonser RS, et al. **Transplant Proc** 1990 Apr; 22(2):557–8

[Semiautomatic procedure for determining urine iron in subjects treated with deferoxamine B] Grisler R, et al. **Quad Sclavo Diagn** 1988 Jan–Dec;24(1–4):73–9 (Eng. Abstr.) **(Ita)**

THERAPEUTIC USE

Immunologic evaluation of children with homozygous beta-thalassemia treated with desferrioxamine. Speer CP, et al. **Acta Haematol (Basel)** 1990;83(2):76–81

Clinical spectrum of iron overload, novel uses of iron chelators, and potential treatment of pediatric anemias with erythropoietin. Introduction. Cairo MS. **Am J Pediatr Hematol Oncol** 1990 Spring;12(1):1–3 (14 ref.)

Chelation therapy and cardiac status in older patients with thalassemia major. Lerner N, et al. **Am J Pediatr Hematol Oncol** 1990 Spring;12(1):56–60

Gallium-67 scintigraphy in patients with hemochromatosis treated by deferoxamine. Nagamachi S, et al. **Ann Nucl Med** 1988 May;2(1):35–9

Effect of deferoxamine pretreatment on acute pneumonic pasteurellosis and neutrophil oxidative metabolism in calves. Slocombe RF, et al. **Can J Vet Res** 1990 Apr; 54(2):227–31

Effects of a single course of deferoxamine in neuroblastoma patients. Donfrancesco A, et al. **Cancer Res** 1990 Aug 15; 50(16):4929–30

Amelioration of postischemic stunning by deferoxamine-blood cardioplegia. Illes RW, et al. **Circulation** 1989 Nov;80(5 Pt 2):III30–5

Sustained normalization of cardiac function by chelation therapy in thalassaemia major. Freeman AP, et al. **Clin Lab Haematol** 1989;11(4):299–307

Deferoxamine therapy in high-ferritin diabetes. Cutler P. **Diabetes** 1989 Oct;38(10):1207–10

Treatment of iron overload in children and adolescents on chronic haemodialysis. Eijgenraam FJ, et al. **Eur J Pediatr** 1990 Feb;149(5):359–62

Phase II trial of copper zinc superoxide dismutase (CuZnSOD) in treatment of Crohn's disease. Emerit J, et al. **Free Radic Biol Med** 1989;7(2):145–9

Desferrioxamine: its use in iron chelation in thalassemia. Sharma BK, et al. **Indian Pediatr** 1990 Mar;27(3):314–9 (28 ref.)

Failure of deferoxamine to improve iron overload in chronic hemodialysis patients. Roxe DM, et al. **Int J Artif Organs** 1990 Apr;13(4):211–7

Protection against endotoxin-induced foetal resorption in mice by desferrioxamine and ebselen. Gower JD, et al. **Int J Exp Pathol** 1990 Aug;71(4):433–40

The reduction of radiation damage to the spinal cord by post-irradiation administration of vasoactive drugs. Hornsey S, et al. **Int J Radiat Oncol Biol Phys** 1990 Jun; 18(6):1437–42

Acute iron poisoning. Rescue with macromolecular chelators. Mahoney JR Jr, et al. **J Clin Invest** 1989 Oct; 84(4):1362–6

Altered biodistribution of gallium-67 in a patient with aluminum toxicity treated with desferoxamine. Brown SJ, et al. **J Nucl Med** 1990 Jan;31(1):115–7

Hypocalcemia complicating deferoxamine therapy in an infant with parenteral nutrition-associated aluminum overload: evidence for a role of aluminum in the bone disease of infants. Klein GL, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):400–3

Deferoxamine pretreatment reduces canine infarct size and oxidative injury. Lesnefsky EJ, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1103–9

Noncompliance with iron chelation therapy in patients with beta thalassaemia. Beratis S. **J Psychosom Res** 1989; 33(6):739–45

Aluminum induced anemia: pathogenesis and treatment in patients on chronic hemodialysis. Bia MJ, et al. **Kidney Int** 1989 Nov;36(5):852–8

Kinetics and efficacy of deferoxamine in iron-overloaded hemodialysis patients. Stivelman J, et al. **Kidney Int** 1989 Dec;36(6):1125–32

Desferrioxamine versus erythropoietin for treatment of dialysis anaemia [letter] Padovese P, et al. **Lancet** 1990 Jun 16;335(8703):1465

Critical role of iron overload in the increased susceptibility of haemodialysis patients to bacterial infections. Beneficial effects of desferrioxamine. Tielemans CL, et al. **Nephrol Dial Transplant** 1989;4(10):883–7

Successful treatment of hemodialysis-related porphyria cutanea tarda with deferoxamine. Stockenhuber F, et al. **Nephron** 1990;55(3):321–4

Clinical experience with desferrioxamine in dialysis patients with aluminium toxicity. McCarthy JT, et al. **Q J Med** 1990 Mar;74(275):257–76

Effects of combined superoxide dismutase and deferoxamine on recovery of brainstem auditory evoked potentials and EEG after asphyxial cardiac arrest in dogs. Cerchiari EL, et al. **Resuscitation** 1990 Jan;19(1):25–40

Effect of desferrioxamine on reperfusion damage of rat heart mitochondria. van Jaarsveld H, et al. **S Afr Med J** 1990 Sep 1;78(5):263–5

Current status of iron chelation therapy with deferoxamine. Cohen A. **Semin Hematol** 1990 Apr;27(2):86–90 (26 ref.)

Principles of iron chelating therapy. Hershko C, et al. **Semin Hematol** 1990 Apr;27(2):91–4 (20 ref.)

Free radical scavenger therapy in transplant rejection. Shaw JF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1305–6

[Iron-chelating treatment] Vullo C, et al. **Haematologica (Pavia)** 1989 Oct;74(5 Suppl):241–51 (54 ref.) **(Ita)**

[Evaluation of deferoxamine capacity to revert a severe porphyria induced by hexachlorobenzene] Wainstok de Calmanovici R, et al. **Acta Physiol Pharmacol Latinoam** 1987;37(4):541–54 (Eng. Abstr.) **(Spa)**

TOXICITY

Free radical mediated cytotoxicity of desferrioxamine. Poot M, et al. **Free Radic Res Commun** 1989;6(5):323–8

A model for desferrioxamine-induced retinopathy using the albino rat. Good PA, et al. **Ophthalmologica** 1990; 201(1):32–6

Modulation of deferoxamine toxicity and clearance by covalent attachment to biocompatible polymers. Hallaway PE, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):10108–12

DEFIBRILLATION, ELECTRIC see **ELECTRIC COUNTERSHOCK**

DEFICIENCY DISEASES

COMPLICATIONS

The role of nutrition in neural tube defects. Scott JM, et al. **Annu Rev Nutr** 1990;10:277–95 (93 ref.)

Nutritionally induced peripheral neuropathies. Weber GA, et al. **Clin Podiatr Med Surg** 1990 Jan;7(1):107–28 (66 ref.)

Glossodynia in patients with nutritional deficiencies. Huber MA, et al. **Ear Nose Throat J** 1989 Oct;68(10):771–5 (30 ref.)

The mouth as an indicator of internal nutritional problems. Dreizen S. **Pediatrician** 1989;16(3–4):139–46 (21 ref.)

Neonatal hyperammonemia associated with carnitine deficiency. Nagao M, et al. **Tohoku J Exp Med** 1989 Aug; 158(4):317–23

DIET THERAPY

Management of malnourished children with acute diarrhoea and sugar intolerance. Beau JP, et al. **J Trop Pediatr** 1990 Apr;36(2):86–9

DRUG THERAPY

Vitamin A and iodine supplementation. **Wkly Epidemiol Rec** 1990 Mar 2;65(9):66 **(Eng, Fre)**

EPIDEMIOLOGY

The challenge of causality: human nutrition, brain development and mental performance. Susser M. **Bull N Y Acad Med** 1989 Dec;65(10):1032–49; discussion 1085–8

Nutritional status, migration, mortality, and measles vaccine coverage during the 1983–1985 drought period: Timbuktu, Mali. Carnell MA, et al. **J Trop Pediatr** 1990 Jun; 36(3):109–13

ETIOLOGY

[An insufficiency of essential trace elements and its manifestations in pathology] Avtsyn AP. **Arkh Patol** 1990; 52(3):3–8 (34 ref.) (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Raised stool and serum IgA levels in undernourished infants with chronic diarrhoea and associated parasitic infestations. Saha K, et al. **J Trop Pediatr** 1990 Apr;36(2):69–74

METABOLISM

Effects of undernutrition during suckling on phosphoryl serine levels in nuclear and synaptosomal proteins from cerebral cortex of rats. Gonçalves CA, et al. **J Nutr** 1990 Jun;120(6):594–7

MORTALITY

Infant mortality and undernutrition in the squatter settlements of Karachi. Thaver IH, et al. **J Trop Pediatr** 1990 Jun; 36(3):135–40

PATHOLOGY

Agreement between arm circumference, weight for age, and weight for height measures of malnutrition in children. Anderson MA, et al. **Indian Pediatr** 1990 Mar;27(3):247–54

Length of cell cycle in vitro and sister-chromatid exchange (SCE) frequency in bone marrow cells from severely malnourished rats. Ortiz R, et al. **Mutat Res** 1990 Sep; 232(1):71–5

DEFOLIANTS, CHEMICAL see under HERBICIDES

DEFORMITIES see ABNORMALITIES

DEGLUTITION

Survival and esophageal passage after radiotherapy of inoperable esophageal carcinoma. A retrospective study of 106 cases. Kellokumpu-Lehtinen P, et al. **Acta Oncol** 1990;29(2):175–8

Effect of swallowed bolus variables on oral and pharyngeal phases of swallowing. Dantas RO, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G675–81

Oncologic and functional considerations of total glossectomy. Sultan MR, et al. **Am J Surg** 1989 Oct;158(4):297–302

Continuous electromyographic recordings of pharyngeal muscle activity in normal and previously denervated muscles in dogs. Venker-van Haagen AJ, et al. **Am J Vet Res** 1989 Oct;50(10):1725–8

Swallowing during ongoing fluid ingestion in the rat. Kaplan JM, et al. **Brain Res** 1989 Oct 9;499(1):63–80

Determining normal bolus size for thin liquids. Adnerhill I, et al. **Dysphagia** 1989;4(1):1–3

Objective measures of swallowing in patients with primary Sjogren's syndrome. Caruso AJ, et al. **Dysphagia** 1989; 4(2):101–5

Timing of videofluoroscopic, manometric events, and bolus transit during the oral and pharyngeal phases of swallowing. Cook IJ, et al. **Dysphagia** 1989;4(1):8–15

Graphic representation of pharyngeal wall motion during swallow: technical note. Ekberg O, et al. **Dysphagia** 1989; 4(1):43–7

Pharyngeal transit time: assessment with videofluoroscopic and scintigraphic techniques. Hamlet SL, et al. **Dysphagia** 1989;4(1):4–7

Dynamic aspects of lingual propulsive activity in swallowing. Hamlet SL. **Dysphagia** 1989;4(3):136–45

Correlation of ultrasound imaging of oral swallow with ventilatory alterations in cerebral palsied and normal children: preliminary observations. Kenny DJ, et al. **Dysphagia** 1989;4(2):112–7

Bolus position at swallow onset in normal adults: preliminary observations. Linden P, et al. **Dysphagia** 1989;4(3):146–50

Effects of intraoral prosthetics on swallowing in patients with oral cancer. Logemann JA, et al. **Dysphagia** 1989; 4(2):118–20

Dysphagia in bulimia nervosa. Roberts MW, et al. **Dysphagia** 1989;4(2):106–11

Neural mechanisms of swallowing: neurophysiological and neurochemical studies on brain stem neurons in the solitary tract region. Sessle BJ, et al. **Dysphagia** 1989;4(2):61–75 (162 ref.)

Relationship between saliva production and oropharyngeal swallow in healthy, different-aged adults. Sonies BC, et al. **Dysphagia** 1989;4(2):85–9

Preliminary observations on the effects of age on oropharyngeal deglutition. Tracy JF, et al. **Dysphagia** 1989; 4(2):90–4

Salivary flow rates and salivary film thickness in five-year-old children. Watanabe S, et al. **J Dent Res** 1990 May;69(5):1150–3

A case of fatal suffocation during an attempt to swallow a pool ball. Fernando GC. **Med Sci Law** 1989 Oct; 29(4):308–10

Swallow syncope associated with complete atrioventricular block: a case report and review of the literature. Elam MP, et al. **Milit Med** 1989 Sep;154(9):465–6 (6 ref.)

Swallowing function in patients with spasmodic torticollis. Riski JE, et al. **Neurology** 1990 Sep;40(9):1443–5

[Videofluoroscopic studies of the swallowing process in children with cerebral palsy] le Roux K, et al. **S Afr J Commun Disord** 1989;36:15–21 (Eng. Abstr.) **(Afr)**

[Echography of the oral phase of deglutition] Cerro P, et al. **Radiol Med (Torino)** 1990 Jan-Feb;79(1-2):59–64 (Eng. Abstr.) **(Ita)**

[Interaction of swallowing and control of breathing] Nishino T. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Jan; 28(1):16–21 (7 ref.) (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Excitatory amino acid receptor-mediated activation of solitarial deglutitive loci. Hashim MA, et al. **Neuropharmacology** 1989 Sep;28(9):913–21

Modulation of solitarial deglutitive N-methyl-D-aspartate receptors by dihydropyridines. Hashim MA, et al. **Neuropharmacology** 1989 Sep;28(9):923–9

PHYSIOLOGY

The effect of high- vs low-density barium preparations on the quantitative features of swallowing. Dantas RO, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1191–5

Physiology and radiology of the normal oral and pharyngeal phases of swallowing. Dodds WJ, et al. **AJR Am J Roentgenol** 1990 May;154(5):953–63

Tipper and dipper types of oral swallows. Dodds WJ, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1197–9

Neonatal cardiac deceleration on suckle feeding. Winter ST, et al. **Am J Dis Child** 1966 Jul;112(1):11–20

Swallowing: an assessment guide. Dilorio C, et al. **Am J Nurs** 1990 Jul;90(7):38–41

Swallowing: a practice guide. Price ME, et al. **Am J Nurs** 1990 Jul;90(7):42–6

Fetal blood volume, urine flow, swallowing, and amniotic fluid volume responses to long-term intravascular infusions of saline. Brace RA. **Am J Obstet Gynecol** 1989 Oct; 161(4):1049–54

Stimuli for fetal swallowing: systemic factors. Ross MG, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1559–65

Fetal swallowing: response to systemic hypotension. Ross MG, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R130–4

Fetal swallowing: correlation of electromyography and esophageal fluid flow. Sherman DJ, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1386–94

Nasal constant positive airway pressure inhibits the swallowing reflex. Nishino T, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1290–3

Electromyography of the inferior constrictor and cricopharyngeal muscles during swallowing. Elidan J, et al. **Ann Otol Rhinol Laryngol** 1990 Jun;99(6 Pt 1):466–9

Interpreting the sounds of swallowing: fluid flow through the cricopharyngeus. Hamlet SL, et al. **Ann Otol Rhinol Laryngol** 1990 Sep;99(9 Pt 1):749–52

Activity of extrinsic tongue muscles during swallowing in sheep. Amri M, et al. **Brain Res** 1989 Nov 27;503(1):141–3

Effect of bolus volume and consistency on swallow-induced submental and infrahyoid electromyographic activity. Dantas RO, et al. **Braz J Med Biol Res** 1990;23(1):37–44

Normal pharyngoesophageal motility. A study of 50 healthy subjects. Wilson JA, et al. **Dig Dis Sci** 1989 Oct; 34(10):1590–9

Axonal branching of medullary swallowing neurons projecting on the trigeminal and hypoglossal motor nuclei: demonstration by electrophysiological and fluorescent double labeling techniques. Amri M, et al. **Exp Brain Res** 1990;81(2):384–90

Upper esophageal sphincter opening and modulation during swallowing. Jacob P, et al. **Gastroenterology** 1989 Dec; 97(6):1469–78

Coordination of deglutitive glottic closure with oropharyngeal swallowing. Shaker R, et al. **Gastroenterology** 1990 Jun;98(6):1478–84

Modification of compensatory swallowing in a supraglottic laryngectomy patient. Hamlet S, et al. **Head Neck** 1990 Mar-Apr;12(2):131–6

Nasopharyngeal pressure gradients during non-phonetic activities of the velopharyngeal valve. Part I. Finkelstein Y, et al. **Int J Pediatr Otorhinolaryngol** 1990 Jan; 18(3):197–209

Topographic representation of the pharyngoesophageal segment during swallowing. Karstoft J, et al. **Invest Radiol** 1990 Feb;25(2):184–8

A noninvasive method for determining patterns of milk intake in the breast-fed infant. Lau C, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):481–7

Some thoughts on swallowing—normal, abnormal and bizarre. Lund WS. **J R Soc Med** 1990 Mar;83(3):138–42 (3 ref.)

Electrical activity from the superior pharyngeal constrictor during reflexive and nonreflexive tasks. Perlman AL, et al. **J Speech Hear Res** 1989 Dec;32(4):749–54

Acute HIV infection presenting with painful swallowing and esophageal ulcers. Rabeneck L, et al. **JAMA** 1990 May 2;263(17):2318–22

Swallowing induced supraventricular ectopics in a patient with straight back syndrome. Wander GS, et al. **Jpn Heart J** 1989 Jul;30(4):523–6

Swallowing-induced tachycardia; three modalities of autonomic nervous effects. Shirayama T, et al. **Jpn J Med** 1989 Sep-Oct;28(5):647–50

Relearning to swallow after stroke—application of maneuvers and indirect biofeedback: a case study. Logemann JA, et al. **Neurology** 1990 Jul;40(7):1136–8

Reflex induced apneas. Thach BT, et al. **Prog Clin Biol Res** 1990;345:77–84; discussion 85–7

Deglutition after near-fatal choking episode: radiologic evaluation. Feinberg MJ, et al. **Radiology** 1990 Sep; 176(3):637–40

[Study of deglutition using various sound signals] Lebel D, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):75–86 (Eng. Abstr.) **(Fre)**

[The functional anatomy of the pharynx, esophagus and trachea in adults and newborn infants] Lierse W. **Arch Otorhinolaryngol Suppl** 1990;1:1–8 (34 ref.) **(Ger)**

[The larynx in conflict with its double function] Berendes J. **HNO** 1990 Apr;38(4):123–4 (Eng. Abstr.) **(Ger)**

DEGLUTITION DISORDERS

[1990 proceedings of the German Society for Otorhinolaryngology, Head and Neck Surgery. I. Clinical aspects and treatment of dysphagia] **Arch Otorhinolaryngol Suppl** 1990;1:1–170 **(Ger)**

COMPLICATIONS

The incidence of communication disorders in dysphagic patients. Martin BJ, et al. **J Speech Hear Disord** 1990 Feb; 55(1):28–32

[Dilation of stenoses of the oral part of the esophagus in the Kelly-Paterson syndrome (Plummer-Vinson)] Bohutová J, et al. **Cesk Radiol** 1990 Jan;44(1):26–31 (Eng. Abstr.) **(Cze)**

[Dysphagia, speech disorders and centrotemporal spikes-waves] Boulloche J, et al. **Arch Fr Pediatr** 1990 Feb; 47(2):115–7 (Eng. Abstr.) **(Fre)**

CONGENITAL

Congenital difficulties with swallowing and breathing associated with maternal polyhydramnios: neurocristopathy or medullary infarction? Alvord EC Jr, et al. **J Child Neurol** 1989 Oct;4(4):299–306 (50 ref.)

DIAGNOSIS

A new objective measurement of esophageal lumen patency. Goldschmid S, et al. **Am J Gastroenterol** 1989 Oct; 84(10):1255–8

How I do it: examination of the patient with dysphagia. Jones B, et al. **Dysphagia** 1989;4(3):162–72

Syringomyelia presenting as cricopharyngeal pseudostricture. Malik MI, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul; 11(1):115–7

Unusual esophageal obstruction [letter] Dube AH. **N Engl J Med** 1990 Mar 15;322(11):778–9

[Sideropenic dysphagia] Kharrat F, et al. **J Radiol** 1989 Oct; 70(10):563–7 (16 ref.) (Eng. Abstr.) **(Fre)**

[Mucous diaphragm of the cervical esophagus. Apropos of 38 cases discovered during upper endoscopy at the General Hospital of Dakar. Relationship with the Kelly-Paterson or the Plummer-Vinson syndrome] Peghini M, et al. **Med Trop (Mars)** 1989 Oct-Dec;49(4):343–7 (Eng. Abstr.) **(Fre)**

[Diagnosis of functional dysphagia] Bielefeldt K, et al. **Dtsch Med Wochenschr** 1989 Sep 22;114(38):1450–5 (33 ref.) (Eng. Abstr.) **(Ger)**

[Nosologic evaluation of oculopharyngeal myopathic syndromes] Lössner J, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Oct; 41(10):577–85 (Eng. Abstr.) **(Ger)**

DIET THERAPY

Development and dissemination of an aspiration risk reduction diet. Curran J, et al. **Dysphagia** 1990;5(1):6–12

DRUG THERAPY

A new light delivery system for the treatment of obstructing gastrointestinal cancers by photodynamic therapy. Allardice JT, et al. **Gastrointest Endosc** 1989 Nov-Dec; 35(6):548–51

EPIDEMIOLOGY

Prevalence of subjective dysphagia in community residents aged over 87. Bloem BR, et al. **BMJ** 1990 Mar 17; 300(6726):721–2

Using the Fleming index of dysphagia to establish prevalence. Layne KA, et al. **Dysphagia** 1989;4(1):39–42

Diagnosis and management of esophageal metastases. Frank AR. **Nebr Med J** 1990 Jul;75(7):171–5

ETIOLOGY

Anterior cervical osteophytes as a cause of progressive dysphagia. Papadopoulos SM, et al. **Acta Neurochir (Wien)** 1989;101(1-2):63–5

Hypertrophic cervical osteophytes presenting with pharyngeal symptoms. Van Wellen P, et al. **Acta Orthop Belg** 1989;55(4):599–603

Dysphagia due to mediastinal fibrosis in advanced pulmonary tuberculosis. Ramakantan R, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):61–3

Dysphagia caused by acute leukemic infiltration of the esophagus [letter] Thompson BC, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):654

Dysphagia as the sole manifestation of bilateral strokes. Celifarco A, et al. **Am J Gastroenterol** 1990 May; 85(5):610–3

Intraesophageal balloon distention versus drug provocation in the evaluation of noncardiac chest pain. Deschner WK, et al. **Am J Gastroenterol** 1990 Aug;85(8):938–43

Bacterial esophagitis: an often forgotten cause of odynophagia. Ezzell JH Jr, et al. **Am J Gastroenterol** 1990 Mar;85(3):296–8

Dysphagia and the human immunodeficiency virus: endoscopy is not a first step [letter; comment] San Roman AL, et al. **Am J Gastroenterol** 1989 Nov;84(11):1461–2 Comment on: Am J Gastroenterol 1989 Feb;84(2):143–6.

Persistent mutism and dysphagia of acute onset due to bilateral internal capsule infarction. Chee MW, et al. **Ann Acad Med Singapore** 1990 May;19(3):393–5

The cause of dysphagia in uncomplicated sliding hiatal hernia and its relief by hiatal herniorrhaphy. A roentgenographic, manometric, and clinical study. Kaul BK, et al. **Ann Surg** 1990 Apr;211(4):406–10

Acute symptoms due to a huge duplication cyst ruptured into the esophagus. Nakahara K, et al.

Ann Thorac Surg 1990 Aug;50(2):309–11

Gastroesophageal reflux as a pathogenic factor in the development of symptomatic lower esophageal rings. Marshall JB, et al. **Arch Intern Med** 1990 Aug; 150(8):1669–72

Extensive brain calcification and progressive dysarthria and dysphagia associated with chronic hypoparathyroidism. Cheek JC, et al. **Arch Neurol** 1990 Sep;47(9):1038–9

Cervical osteophyte induced dysphagia. Davies RP, et al. **Australas Radiol** 1989 Aug;33(3):223–5

A squamous cell papilloma as a cause of dysphagia and vomiting. MacDonald-Jankowski DS. **Br Dent J** 1990 Jun 23;168(12):480–1

Dysphagia after fast neutron therapy to head and neck [letter] Duncan W, et al. **Br J Radiol** 1990 Jul;63(751):583

Giant mid-oesophageal diverticulum: a rare cause of dysphagia. Etherington RJ, et al. **Br J Radiol** 1990 Mar; 63(747):221–2

Inclusion body myositis associated with progressive dysphagia: treatment with cricopharyngeal myotomy. Danon MJ, et al. **Can J Neurol Sci** 1989 Nov;16(4):436–8

Cricopharyngeal dysfunction in chronic obstructive pulmonary disease. Stein M, et al. **Chest** 1990 Feb; 97(2):347–52

Hypertensive lower esophageal sphincter and dysphagia [letter; comment] Brazer SR, et al. **Dig Dis Sci** 1990 Feb; 35(2):281 Comment on: Dig Dis Sci 1989 Jul;34(7):1063–7.

Congenital esophageal stenosis. A rare cause of food impaction in the adult. McNally PR, et al. **Dig Dis Sci** 1990 Feb;35(2):263–6

Hypertensive lower esophageal sphincter and dysphagia [letter] Mittal RK, et al. **Dig Dis Sci** 1990 May;35(5):667–8

Dysphagia in tetanus: evaluation and outcome. Lathrop DL, et al. **Dysphagia** 1989;4(3):173–5

Laser lysis of an esophageal web. Krevsky B, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):451–3

Prospective comparison of contact with noncontact Nd:Yag laser therapy for palliation of esophageal carcinoma. Radford CM, et al. **Gastrointest Endosc** 1989 Sep–Oct; 35(5):394–7

Esophageal lichen planus presenting with dysphagia. Leyva-Leon F, et al. **Int J Dermatol** 1990 Jun;29(5):354–5

Studies in sclerotherapy: II. Two types of esophageal strictures following endoscopic sclerotherapy. Chawla Y, et al. **J Clin Gastroenterol** 1990 Aug;12(4):381–3

Dysphagia due to a pharyngeal mucocoele mimicking myasthenia [letter] Junger SS, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):268

Chest pain and dysphagia in adolescents caused by diffuse esophageal spasm. Milov DE, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):450–3

Dysphagia in a child with aggressive fibromatosis of the esophagus. Wolf Y, et al. **J Pediatr Surg** 1989 Nov; 24(11):1137–9

Philodendron—an infant death. McIntire MS, et al. **J Toxicol Clin Toxicol** 1990;28(2):177–83

Aberrant right subclavian artery: varied presentations and management options. Stone WM, et al. **J Vasc Surg** 1990 Jun;11(6):812–7

Dysphagia as a primary manifestation of thyrotoxicosis: a case report. Ramanathan M. **Med J Malaysia** 1989 Mar; 44(1):83–6

The diet pill that worked [letter] Gebhard RL, et al. **N Engl J Med** 1990 Mar 8;322(10):702

Swallowing dysfunction in nephropathic cystinosis. Sonies BC, et al. **N Engl J Med** 1990 Aug 30;323(9):565–70

Dysphagia as the sole manifestation of adult type I Arnold-Chiari malformation. Achiron A, et al. **Neurology** 1990 Jan;40(1):186–7

Swallowing abnormalities and their response to treatment in Parkinson's disease. Bushmann M, et al. **Neurology** 1989 Oct;39(10):1309–14

Abdominal pancreatic pseudocyst—an unusual cause of dysphagia. Propper DJ, et al. **Postgrad Med J** 1989 May; 65(763):329–30

Oropharynx in patients with cerebrovascular disease: evaluation with videofluoroscopy. Chen MY, et al. **Radiology** 1990 Sep;176(3):641–3

Prolonged pharyngeal impaction of dentures following stroke. Fort S, et al. **Stroke** 1989 Dec;20(12):1748–50

['Globus', real or virtual?] Gerritsen GJ, et al. **Ned Tijdschr Geneeskd** 1990 Jul 21;134(29):1385–7 **(Dut)**

[Dysphagia due to 'mediastinal carcinomatosis', a late sequela of breast carcinoma] Huisman AM, et al. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2087–8 **(Eng. Abstr.)** **(Dut)**

[Deglutition disorders caused by mediastinal carcinomatosis, a late sequela of breast carcinoma (letter)] Hüpscher DN. **Ned Tijdschr Geneeskd** 1990 Mar 3;134(9):456 **(Dut)**

[Incapacitating dysphagia and paracardiac gastric diverticulum] Leblanc I, et al. **Ann Chir** 1989;43(9):758–9 **(Eng. Abstr.)** **(Fre)**

[Kelly-Paterson, Plummer-Vinson syndrome or sideropenic dysphagia apropos of a case in a child] Diagne I, et al. **Dakar Med** 1988;33(1–4):1–3 **(Eng. Abstr.)** **(Fre)**

[Aggravation of dysphagia of the megaesophagus revealing pemphigus vulgaris (letter)] Harlé JR, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1094–5 **(Fre)**

[Absence of sensation in the left half of the oral cavity as the origin of false deglutition routes (letter)] André JM, et al. **Presse Med** 1990 Mar 31;19(12):570 **(Fre)**

[Dysphagia from the neurologic viewpoint] Hertel G. **Arch Otorhinolaryngol Suppl** 1990;1:25–32 (0 ref.) **(Ger)**

[Clinical aspects of pharyngoesophageal dysphagia from the otorhinolaryngologic viewpoint] Jahnke V. **Arch Otorhinolaryngol Suppl** 1990;1:33–50 (64 ref.) **(Ger)**

[Manifestations of dysphagia from the internal medicine viewpoint] Riemann JF. **Arch Otorhinolaryngol Suppl** 1990; 1:9–23 (34 ref.) **(Ger)**

[Elongated styloid process as a cause of dysphagia] Kehrl W, et al. **HNO** 1990 Apr;38(4):129–33 (Eng. Abstr.) **(Ger)**

[Dysarthria, dysphagia or dyspnea as a reason for the initial consultation in pseudoparalytic myasthenia gravis and amyotrophic lateral sclerosis] Lamprecht A. **Laryngorhinootologie** 1990 Jan;69(1):48–51 (Eng. Abstr.) **(Ger)**

[Oculopharyngeal muscular dystrophy] Tamir G, et al. **Harefuah** 1990 Jun 1;118(11):634–6 (Eng. Abstr.) **(Heb)**

[Dysphagia in olivopontocerebellar atrophy] Kurihara K, et al. **Rinsho Shinkeigaku** 1990 Feb;30(2):146–50 (Eng. Abstr.) **(Jpn)**

[A case of polymyositis with repeated dysphagia and muscle weakness associated with peculiar findings of skin] Morita M, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):909–13 (Eng. Abstr.) **(Jpn)**

[The recurrence of dysphagia in patients with neuromuscular diseases of the esophagus with normal or low pressure indices in the physiological cardia] Chernousov AF, et al. **Grudn Khir** 1989 Sep–Oct;(5):64–8 (Eng. Abstr.) **(Rus)**

[Forestier disease and dysphagia] Márquez Dorsch FJ, et al. **Acta Otorrinolaringol Esp** 1988 Mar–Apr;39(2):113–5 (Eng. Abstr.) **(Spa)**

[Dysphagia as onset of myasthenia gravis in an elderly patient (letter)] González Olivella J, et al. **Neurologia** 1990 Mar; 5(3):109–10 **(Spa)**

GENETICS

Feature-blind grammar and dysphagia [letter] Gopnik M. **Nature** 1990 Apr 19;344(6268):715

[Oculopharyngeal muscular dystrophy. A census of French families and genealogic study] Brunet G, et al. **Rev Neurol (Paris)** 1990;146(6–7):425–9 (27 ref.) (Eng. Abstr.) **(Fre)**

[Oculopharyngeal muscular dystrophy. Clinical, electromyography and muscle biopsy findings in 2 cases] Klostermann W, et al. **Nervenarzt** 1990 Jun;61(6):351–5 **(Ger)**

NURSING

Swallowing: an assessment guide. DiIorio C, et al. **Am J Nurs** 1990 Jul;90(7):38–41

Swallowing: a practice guide. Price ME, et al. **Am J Nurs** 1990 Jul;90(7):42–6

PATHOLOGY

[Oculopharyngeal muscular dystrophy. Contribution of electron microscopy] Dominguez M, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1181–3 **(Fre)**

PHYSIOPATHOLOGY

Esophageal electromyography in scleroderma patients with functional dysphagia. Bortolotti M, et al. **Am J Gastroenterol** 1989 Dec;84(12):1497–502

Peristaltic dysfunction associated with nonobstructive dysphagia in reflux disease. Jacob P, et al. **Dig Dis Sci** 1990 Aug;35(8):939–42

Manometric responses to balloon distention in patients with nonobstructive dysphagia. Deschner WK, et al. **Gastroenterology** 1989 Nov;97(5):1181–5

Oesophageal manometry during eating in the investigation of patients with chest pain or dysphagia. Howard PJ, et al. **Gut** 1989 Sep;30(9):1179–86

Biomechanical measurements to characterize the oral phase of dysphagia. Reddy NP, et al. **IEEE Trans Biomed Eng** 1990 Apr;37(4):392–7

Some thoughts on swallowing—normal, abnormal and bizarre. Lund WS. **J R Soc Med** 1990 Mar;83(3):138–42 (3 ref.)

Oropharyngeal function study: radiologic means of evaluating swallowing difficulty. Ott DJ, et al. **South Med J** 1990 Feb;83(2):191–3

[Functional and electrophysiologic diagnosis of dysphagia] Thumfart WF. **Arch Otorhinolaryngol Suppl** 1990;1:51–85 (300 ref.) **(Ger)**

[Oropharyngeal functional evaluation in patients subjected to total laryngectomy with phonatory prosthesis. Manometric and isotopic study] Tomás-Ridocci M, et al. **Acta Otorrinolaringol Esp** 1989 Sep–Oct;40(5):358–62 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Psychogenic dysphagia and globus: reevaluation of 23 patients. Ravich WJ, et al. **Dysphagia** 1989;4(1):35–8

RADIOGRAPHY

Radiologic assessment of abnormal oral and pharyngeal phases of swallowing. Dodds WJ, et al. **AJR Am J Roentgenol** 1990 May;154(5):965–74

Radiologic investigation of dysphagia. Levine MS, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1157–63 (26 ref.)

Protocol for the use of videofluoroscopy in pediatric swallowing dysfunction. Zerilli KS, et al. **Am J Occup Ther** 1990 May;44(5):441–6

Dysphagia after laryngeal surgery: radiologic assessment. Balfe DM. **Dysphagia** 1990;5(1):20–34 (35 ref.)

Pharyngeal transit time: assessment with videofluoroscopic and scintigraphic techniques. Hamlet SL, et al. **Dysphagia** 1989;4(1):4–7

Videofluoroscopy of dysphagia patients. Bishop WS. **Radiogr Today** 1989 Jun;55(625):15–7

Deglutition after near-fatal choking episode: radiologic evaluation. Feinberg MJ, et al. **Radiology** 1990 Sep; 176(3):637–40

[Roentgen diagnosis of the pharyngoesophageal transition] Brühlmann W. **Arch Otorhinolaryngol Suppl** 1990;1:87–106 (75 ref.) **(Ger)**

[Video fluoroscopy of the swallowing act following partial supraglottic laryngectomy] Bumber Z, et al. **Laryngorhinootologie** 1990 Apr;69(4):217–20 (Eng. Abstr.) **(Ger)**

[Dynamic radiologic study of deglutition in oro-pharyngeal-laryngeal neoplasms and results of their treatment] Montesi A, et al. **Radiol Med (Torino)** 1990 Jan–Feb;79(1–2):48–58 (Eng. Abstr.) **(Ita)**

RADIOTHERAPY

[Dysphagia and Schatzki ring: treatment using the Nd-YAG laser in 14 patients (letter)] Hubert G, et al. **Gastroenterol Clin Biol** 1990;14(2):186–7 **(Fre)**

REHABILITATION

A multidisciplinary approach to the development of competency standards and appropriate allocation for patients with dysphagia. Mody M, et al. **Am J Occup Ther** 1990 Apr;44(4):369–72

Swallowing disorders: assessment and rehabilitation. Penington GR, et al. **Br J Hosp Med** 1990 Jul;44(1):17–8, 20, 22

Modification of compensatory swallowing in a supraglottic laryngectomy patient. Hamlet S, et al. **Head Neck** 1990 Mar–Apr;12(2):131–6

The role of speech language pathologists in the management of dysphagia, 1989. Erlichman M. **Health Technol Assess Rep** 1989;(1):1–10

An integrated team approach to the management of patients with oropharyngeal dysphagia. Bach DB, et al. **J Allied Health** 1989 Fall;18(5):459–68

[Recent advances in rehabilitation of head and neck cancer patients] Hirano M. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):795–801 (4 ref.) (Eng. Abstr.) **(Jpn)**

SURGERY

Cricopharyngeal myotomy in the treatment of dysphagia. Lindgren S, et al. **Clin Otolaryngol** 1990 Jun;15(3):221–7

A case of dysphagia caused by cricopharyngeal dysfunction that responded well to surgery [letter] Sandanam J, et al. **Med J Aust** 1990 Aug 6;153(3):176

[Current concepts of surgical rehabilitation of deglutition following pharyngolaryngectomy] Ehrenberger K. **Arch Otorhinolaryngol Suppl** 1990;1:157–70 **(Ger)**

[Surgical treatment of dysphagia of the pharyngoesophageal transition] Ey W, et al. **Arch Otorhinolaryngol Suppl** 1990; 1:107–56 (250 ref.) **(Ger)**

THERAPY

Importance of iron repletion in the management of Plummer-Vinson syndrome. Bredenkamp JK, et al. **Ann Otol Rhinol Laryngol** 1990 Jan;99(1):51–4

Aspiration associated with long-term gastric versus jejunal feeding: a critical analysis of the literature. Lazarus BA, et al. **Arch Phys Med Rehabil** 1990 Jan;71(1):46–53

The benefit of head rotation on pharyngoesophageal dysphagia. Logemann JA, et al. **Arch Phys Med Rehabil** 1989 Oct;70(10):767–71

Knowledge and skills needed by speech-language pathologists providing services to dysphagic patients/clients. Task Force on Dysphagia. American Speech-Language-Hearing Association. **ASHA** 1990 Apr; 32(4 Suppl 2):7–12

Medicare oks dysphagia care by speech-language pathologists [news] **ASHA** 1989 Nov;31(11):20

Dysphagia: to treat or not to treat [letter] Schumacher W. **ASHA** 1989 Nov;31(11):5

Efficacy of rehabilitative management of dysphagia. Kasprisin AT, et al. **Dysphagia** 1989;4(1):48–52

Percutaneous endoscopic gastrostomy as an outpatient procedure [letter] Kurchin A, et al. **Gastrointest Endosc** 1989 Nov-Dec;35(6):584

Candida cellulitis: a complication of percutaneous endoscopic gastrostomy. Patel AS, et al. **Gastrointest Endosc** 1989 Nov-Dec;35(6):571–2

Use of ethanol-induced tumor necrosis to palliate dysphagia in patients with esophagogastric cancer. Payne-James JJ, et al. **Gastrointest Endosc** 1990 Jan-Feb;36(1):43–6

Prospective randomised trial of laser therapy only and laser therapy followed by endoscopic intubation for the palliation of malignant dysphagia. Barr H, et al. **Gut** 1990 Mar;31(3):252–8

Light-cured interim palatal augmentation prosthesis. A clinical report. Meyer JB Jr, et al. **J Prosthet Dent** 1990 Jan;63(1):1–3

Nutritional support of the dysphagic patient: methods, risks, and complications of therapy. Sitzmann JV. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):60–3

Gax–collagen injection to correct aspiration problems after subtotal laryngectomy. Remacle M, et al. **Laryngoscope** 1990 Jun;100(6):663–9

[Percutaneous endoscopic gastrostomy. 174 cases] Seyrig JA, et al. **Presse Med** 1990 Jun 2;19(22):1035–9 (Eng. Abstr.) (Fre)

[Therapy of functional dysphagia] Bielefeldt K, et al. **Dtsch Med Wochenschr** 1989 Sep 29;114(39):1492–5 (23 ref.) (Ger)

[Enteral nutrition in patients with deglutition disorders] Börner N, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:45–8 (Ger)

DEGU see **RODENTIA**

DEHYDRATASES see **HYDRO–LYASES**

DEHYDRATION

see related
THIRST

Effect of dehydration on interstitial pressures in the isolated dog lung. Glucksberg MR, et al. **J Appl Physiol** 1989 Aug; 67(2):839–45

[Increase in the number of colloidal droplets in the hypothalamus of Natrix maura caused by dehydration] Fernández–Llebrez P, et al. **Rev Esp Fisiol** 1989 Dec; 45(4):385–9 (Eng. Abstr.) (Spa)

BLOOD

Dehydration and serum electrolyte changes in South African gold miners with heat disorders. Shearer S. **Am J Ind Med** 1990;17(2):225–39

Criteria for measurement of dehydration [letter; comment] Poole SR. **Ann Emerg Med** 1990 Jun;19(6):730–1 Comment on: Ann Emerg Med 1989 Jul;18(7):755–7.

Plasma renin activity and aldosterone: correlations with moderate hypohydration. Francesconi RP, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1172–7

COMPLICATIONS

Serum sodium concentration and intraventricular hemorrhage in premature infants. Lupton BA, et al. **Am J Dis Child** 1990 Sep;144(9):1019–21

Dehydration–induced oligohydramnios [letter] Ross MG. **Am J Obstet Gynecol** 1990 Sep;163(3):1091–2

The cause of thrombosis in an uncontrolled diabetic [letter] Mears TP. **Br J Hosp Med** 1990 May;43(5):329

Effect of brain natriuretic peptide on dehydration– or angiotensin II–induced water intake in rats. Fregoneze JB, et al. **Braz J Med Biol Res** 1989;22(6):765–8

Clinical signs of dehydration in children [letter; comment] Leung AK, et al. **Lancet** 1989 Oct 28;2(8670):1038 Comment on: Lancet 1989 Sep 9;2(8663):605–7.

Renal vein thrombosis in a dehydrated patient on an oral contraceptive agent. Böhler J, et al. **Nephrol Dial Transplant** 1989;4(11):993–5

DIAGNOSIS

Fluid volume deficit: validating the indicators. The Research Committee, Greater Milwaukee Area Chapter of the American Association of Critical–Care Nurses. Gershan JA, et al. **Heart Lung** 1990 Mar;19(2):152–6

Clinical signs of dehydration in children [letter] Mackenzie A, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1529–30

DRUG THERAPY

[Clinical results after hemodilution with hydroxyethyl starch in pregnancy] Heilmann L. **Z Geburtshilfe Perinatol** 1989 Sep–Oct;193(5):219–25 (Eng. Abstr.) (Ger)

ETIOLOGY

Volume depletion in a patient with cirrhosis. Graber M. **Am J Kidney Dis** 1990 Jan;15(1):89–92

Hypernatraemic dehydration in patients in a large hospital for the mentally handicapped [see comments] Macdonald NJ, et al. **BMJ** 1989 Dec 9;299(6713):1426–9 Comment in: BMJ 1990 Feb 10;300(6721):396–7.

Hypernatraemic dehydration in patients in a large hospital for the mentally handicapped [letter; comment] O'Neill PA, et al. **BMJ** 1990 Feb 10;300(6721):396–7 Comment on: BMJ 1989 Dec 9;299(6713):1426–9.

Aging and risks for dehydration. Silver AJ. **Cleve Clin J Med** 1990 Jun;57(4):341–4 (34 ref.)

Dehydration and hyponatremia during triathlons. Hiller WD. **Med Sci Sports Exerc** 1989 Oct;21(5 Suppl):S219–21 (18 ref.)

Recurrent hypertonic dehydration due to selective defect in the osmoregulation of thirst. Assadi FK, et al. **Pediatr Nephrol** 1989 Oct;3(4):438–42

[Acute renal failure following dehydration and hemolytic crisis due to pneumonia in a case of PNH] Nozaki H, et al. **Rinsho Ketsueki** 1990 Feb;31(2):194–7 (Eng. Abstr.) (Jpn)

[Hygienic significance of low humidity under the conditions of Extreme North (review of the literature)] Dedenko II, et al. **Gig Sanit** 1990 Mar;(3):7–10 (35 ref.) (Rus)

[Health problems of thermoregulation in humans in the Far North] Dedenko II, et al. **Vestn Akad Med Nauk SSSR** 1989;(9):16–21 (Eng. Abstr.) (Rus)

METABOLISM

Biosynthetic response of mouse intermediate pituitary gland to induced drinking and dehydration. Leenders HJ, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):527–34

Dehydration increases the density of C receptors for ANF on rat glomerular membranes. Kollenda MC, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R1084–8

Interstitial exclusion of albumin in rat dermis and subcutis in over– and dehydration. Reed RK, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1819–27

NURSING

The use of postural vital signs in the assessment of fluid volume status. Wandel JC. **J Prof Nurs** 1990 Jan–Feb; 6(1):46–54

PATHOLOGY

Qualitative and quantitative analysis of granules in atrial appendage cardiocytes in different physiological states. Gall JA, et al. **Cell Tissue Res** 1990 Mar;259(3):529–34

[Comparative morphometric analysis of the reaction of the rat bone to dehydration and burn trauma] Koveshnikov VG, et al. **Arkh Anat Gistol Embriol** 1989 Jul;97(7):47–53 (Eng. Abstr.) (Rus)

[Systemic and organic changes in the microcirculatory bed in experimental dehydration of the body] Tikhomirov AN, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):54–60 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Postnatal weight loss in preterm neonates less than 1,500 g is due to isotonic dehydration of the extracellular volume. Bauer K, et al. **Acta Paediatr Scand Suppl** 1989;360:37–42

Reduced survival with increasing plasma osmolality in elderly continuing–care patients. O'Neill PA, et al. **Age Ageing** 1990 Jan;19(1):68–71

Sodium appetite and thirst in cattle subjected to dehydration. Blair–West JR, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1212–8

Responses to dehydration and rehydration during heat exposure in young and older men. Miescher E, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1050–6

Effect of water or saline intake on heat–induced limb vasodilation in dehydrated baboons. Ryan KL, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R318–24

Physiological effects of dehydration and rehydration with water and acidic or neutral carbohydrate electrolyte solutions. Bothorel B, et al. **Eur J Appl Physiol** 1990; 60(3):209–16

Age and hypohydration independently influence the peripheral vascular response to heat stress. Kenney WL, et al. **J Appl Physiol** 1990 May;68(5):1902–8

Kinetics of drug action in disease states. XXXVII. Effects of acute fluid overload and water deprivation on the hypnotic activity of phenobarbital and the neurotoxicity of theophylline in rats. Zhi JG, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):827–32

Effects of dehydration and rehydration on thermoregulatory sweating in goats. Baker MA. **J Physiol (Lond)** 1989 Oct; 417:421–35

The effect of hypertension and its treatment on cerebral cell volume regulation during hypernatremic dehydration. Trachtman H, et al. **Life Sci** 1990;46(16):1139–44

Kappa opiate receptors inhibit release of oxytocin from the magnocellular system during dehydration. Summy–Long JY, et al. **Neuroendocrinology** 1990 Apr;51(4):376–84

Aging and disturbances of thirst and fluid balance. Rolls BJ, et al. **Nutr Rev** 1990 Mar;48(3):137–44 (43 ref.)

[Effects of dehydration of the pituitary microcirculation in rats] Shima K, et al. **No To Shinkei** 1989 Aug;41(8):819–24 (Eng. Abstr.) (Jpn)

[The orthostatic stability of the healthy human being during hypohydration] Noskov VB, et al. **Fiziol Cheloveka** 1990 Jan–Feb;16(1):112–7 (Rus)

[Changes in cardiac rhythm of rats in dehydration] Bodnar IaIa, et al. **Fiziol Zh** 1990 Mar–Apr;36(2):84–8 (Eng. Abstr.) (Rus)

PREVENTION & CONTROL

[Oral rehydration therapy in acute diarrheal syndrome. A critical analysis of various aspects] Duffau–Toro G. **Bol Med Hosp Infant Mex** 1989 Oct;46(10):684–9 (50 ref.) (Eng. Abstr.) (Spa)

THERAPY

Glycine, glycyl–glycine and maltodextrin based oral rehydration solution. Assessment of efficacy and safety in comparison to standard ORS. Bhan MK, et al. **Acta Paediatr Scand** 1990 May;79(5):518–26

Cereal based oral rehydration solutions. Kenya PR, et al. **Arch Dis Child** 1989 Jul;64(7):1032–5

Terminal dehydration. To give or not to give intravenous fluids? Musgrave CF. **Cancer Nurs** 1990 Feb;13(1):62–6 (18 ref.)

Efficacy & safety of glycine fortified oral rehydration solution in the treatment of acute dehydrating diarrhoea in children. Bhattacharya SK, et al. **Indian J Med Res** 1989 Dec;90:426–9

Neonatal diarrhoea and oral rehydration therapy. Bhargava SK, et al. **J Indian Med Assoc** 1989 Oct;87(10):243–4 (25 ref.)

Pediatric intraosseous infusion. Hopkins RL. **J La State Med Soc** 1990 Mar;142(3):31–2

How much oral rehydration solution is actually administered during home–based therapy? Touchette PE, et al. **J Trop Med Hyg** 1990 Feb;93(1):28–34

Effect of aspirin in severe dehydration due to acute diarrhoea: a clinical study. Albar H, et al. **Paediatr Indones** 1987 Nov–Dec;27(11–12):216–22

The management of diarrheal dehydration in infants using parenteral fluids. Kallen RJ. **Pediatr Clin North Am** 1990 Apr;37(2):265–86 (31 ref.)

Contribution of American pediatricians to treatment of diarrheal dehydration. Harrison HE. **Pediatr Res** 1990 Jun; 27(6 Suppl):S62–4

Dehydration in infancy: hospital treatment. Harrison HE. **Pediatr Rev** 1989 Nov;11(5):139–43 (10 ref.)

[Parenteral rehydration treatment of acute diarrhea] Brodehl J, et al. **Monatsschr Kinderheilkd** 1989 Sep;137(9):578–84 (Eng. Abstr.) (Ger)

[Use of polyionic solutions in the treatment of acute intestinal infections] Chekalina KI, et al. **Sov Med** 1989;(11):111–4 (Rus)

VETERINARY

Causes of mortality of albatross chicks at Midway Atoll. Sileo L, et al. **J Wildl Dis** 1990 Jul;26(3):329–38

Fluid therapy in mature cattle. Roussel AJ Jr. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):111–23 (27 ref.)

Intravenous fluid therapy in calves. Tremblay RR. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):77–101 (78 ref.)

A practitioner's views on fluid therapy in calves. Tromp AM. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):103–10 (17 ref.)

Water deprivation in weaned pigs. Marks SL, et al. **Vet Rec** 1989 Oct 28;125(18):460

DEHYDROASCORBATASE see under **CARBOXYLIC ESTER HYDROLASES**

DEHYDROASCORBIC ACID see under **ASCORBIC ACID**

DEHYDROBENZPERIDOL see **DROPERIDOL**

DEHYDROCHOLATE see **DEHYDROCHOLIC ACID**

24–DEHYDROCHOLESTEROL see **DESMOSTEROL**

DEHYDROCHOLESTEROLS see under **CHOLESTADIENOLS**

DEHYDROCHOLIC ACID

PHARMACOLOGY

Influence of dehydrocholic acid on the secretion of bile acids and biliary lipids in rats. Yousef IM, et al. **Digestion** 1990; 45(1):40–51

DEHYDROEMETINE see under **EMETINE**

DEHYDROEPIANDROSTERONE

ADMINISTRATION & DOSAGE

Reduction in body weight and cholesterol in spontaneously obese dogs by dehydroepiandrosterone. Kurzman ID, et al. **Int J Obes** 1990;14(2):95–104

ANALOGS & DERIVATIVES

Cost effectiveness of routine gonadotropin and androgen measurements in hirsute women. Helfer EL, et al. **Am J Med Sci** 1990 Feb;299(2):94–7

Epidermal growth factor in breast cyst fluids. Relationships with the morphology of cyst epithelium. Boccardo F, et al. **Ann N Y Acad Sci** 1990;586:137–42

Steroid patterns of benign breast disease. Castagnetta L, et al. **Ann N Y Acad Sci** 1990;586:121–36

Characterization of digoxin–like materials in human cord serum. Chasalow FI, et al. **Ann N Y Acad Sci** 1990; 595:212–21

Estrone–3–sulfate in human breast cyst fluid. Relationship to cation–related cyst subpopulations. Orlandi F, et al. **Ann N Y Acad Sci** 1990;586:79–82

Estriol–3–sulfate in human breast cyst fluid. Concentrations, possible origin, and physiologic implications. Raju U, et al. **Ann N Y Acad Sci** 1990;586:83–7

Decreased plasma dehydroepiandrosterone sulfate and dihydrotestosterone concentrations in young men after myocardial infarction. Słowińska–Srzednicka J, et al. **Atherosclerosis** 1989 Oct;79(2–3):197–203

Inhibition of 7,12–dimethylbenz[a]anthracene–initiated and 12–O–tetradecanoylphorbol–13–acetate–promoted skin papilloma formation in mice by dehydroepiandrosterone and two synthetic analogs. Schwartz AG, et al. **Carcinogenesis** 1989 Oct;10(10):1809–13

Decreased dehydroepiandrosterone sulfate in pigmented nodular adrenal dysplasia. Braithwaite SS, et al. **Clin Chem** 1989 Nov;35(11):2216–9

Serum lipoprotein profile and concentration of dehydroepiandrosterone sulfate (DHEAS) in glucose–6–phosphate dehydrogenase–deficient subjects. Sheriff DS, et al. **Clin Chem** 1990 Feb;36(2):393–4

Low sulpho–conjugated steroid hormone levels in systemic lupus erythematosus (SLE). Hedman M, et al. **Clin Exp Rheumatol** 1989 Nov–Dec;7(6):583–8

Dexamethasone suppressible hypergonadotropism in an adolescent patient with Prader–Willi syndrome. Shimizu H, et al. **Endocrinol Jpn** 1990 Feb;37(1):165–9

Effects of DHA–S on placental 3 beta–hydroxysteroid dehydrogenase activity, progesterone and 20 alpha–dihydroprogesterone concentrations in placenta and serum. Watanabe H, et al. **Endocrinol Jpn** 1990 Feb; 37(1):69–77

The use of the intravenous glucose tolerance test to evaluate nonobese hyperandrogenemic women. Herbert CM 3d, et al. **Fertil Steril** 1990 Apr;53(4):647–53

Dehydroepiandrosterone and dehydroepiandrosterone sulfate metabolism in human genital skin. Kaufman FR, et al. **Fertil Steril** 1990 Aug;54(2):251–4

Conversion of dehydroepiandrosterone sulfate (DHEA–S) to estrogens and testosterone in young non–pregnant women. Schwarz HP. **Horm Metab Res** 1990 May; 22(5):309–10

Treatment of androgenic disorders with dexamethasone: dose–response relationship for suppression of dehydroepiandrosterone sulfate. Redmond GP, et al. **J Am Acad Dermatol** 1990 Jan;22(1):91–3

Plasma dehydroepiandrosterone sulfate in nursing home men. Rudman D, et al. **J Am Geriatr Soc** 1990 Apr;38(4):421–7

Bimodal correlation between the circulating insulin level and the production rate of dehydroepiandrosterone: positive correlation in controls and negative correlation in the polycystic ovary syndrome with acanthosis nigricans. Farah MJ, et al. **J Clin Endocrinol Metab** 1990 Apr; 70(4):1075–81

Metabolic clearance rate (MCR) of dehydroepiandrosterone sulfate (DS), its metabolism to dehydroepiandrosterone, androstenedione, testosterone, and dihydrotestosterone, and the effect of increased plasma DS concentration on DS MCR in normal women. Haning RV Jr, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1047–52

Long term effects of a first pregnancy on serum concentrations of dehydroepiandrosterone sulfate and dehydroepiandrosterone. Key TJ, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1651–3

Dehydroepiandrosterone sulfate levels are not suppressible by glucocorticoids before adrenarche. Kreitzer PM, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1309–11

Suppression of serum dehydroepiandrosterone sulfate levels by insulin: an evaluation of possible mechanisms. Nestler JE, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1040–6

Molecular characterization of a Leydig cell tumor presenting as congenital adrenal hyperplasia. Solish SB, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1148–52

Prolactin secretion and dehydroepiandrosterone sulphate plasma levels in women with benign breast disease. Parlati E, et al. **J Endocrinol Invest** 1989 Sep;12(8):549–52

Steroid sulphatase activity in the human ovarian corpus luteum, stroma, and follicle: comparison to activity in other tissues and the placenta. Haning RV Jr, et al. **J Steroid Biochem** 1990 Jun;36(1–2):175–9

Lipoproteins: carriers of dehydroepiandrosterone fatty acid esters in human serum. Roy R, et al. **J Steroid Biochem** 1989;34(1–6):559–61

Levels of androgen conjugates and oestrone sulphate in patients with breast cysts. Scott WN, et al. **J Steroid Biochem** 1990 Mar;35(3–4):399–402

Dehydroepiandrosterone sulphate in Alzheimer's disease [letter] **Lancet** 1990 Aug 18;336(8712):449–50

Dehydroepiandrosterone sulphate in Alzheimer disease [letter; comment] Späth–Schwalbe E, et al. **Lancet** 1990 Jun 9;335(8702):1412 Comment on: Lancet 1989 Sep 2;2(8662):570.

Biological effects of adrenal androgens on MCF–7 and BT–20 human breast cancer cells. Najid A, et al. **Oncology** 1990; 47(3):269–74

Radioimmunoassay of estrone sulfate in the serum of normal men after a chromatographic procedure that eliminates dehydroepiandrosterone sulfate interference. Brind JL, et al. **Steroids** 1989 Jul;54(1):21–35

Radioimmunoassay of estrone sulfate in the serum of normal men after a non–chromatographic procedure that eliminates interference from dehydroepiandrosterone sulfate. Brind JL, et al. **Steroids** 1990 Jan;55(1):32–5

Measurement of serum levels of dehydroepiandrosterone sulfate: a comparison of radioimmunoassay and enzymatic analysis. Holtzclaw WD, et al. **Steroids** 1989 Oct; 54(4):355–71

The concentration of 16x–hydroxy androgens in serum and cyst fluid of women with gross cystic disease of the breast. Raju U, et al. **Steroids** 1989 Jul;54(1):101–12

[Dehydroepiandrosterone sulfate (DHEAS) concentration changes in clomiphene therapy?] van der Weiden RM, et al. **Geburtshilfe Frauenheilkd** 1990 Mar;50(3):212–4 (Eng. Abstr.) **(Ger)**

[Clinical significance of serum dehydroepiandrosterone and dehydroepiandrosterone sulfate analysis in endocrine tests of the adrenal cortex] Nawata H, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:1217–20 **(Jpn)**

[Changes in serum steroid concentrations at delivery and during neonatal period after DHA–S injection into mother before delivery] Higano S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Jul;41(7):806–12 (Eng. Abstr.) **(Jpn)**

[Changes in 13,14–dihydro–15–keto–prostaglandin F2 alpha and dehydroepiandrosterone–sulfate (DHA–S) levels in amniotic fluid and maternal peripheral venous blood in late pregnancy and during labor] Moriyama S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Jul;41(7):867–74 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Relationship between epidermal growth factor and dehydroepiandrosterone and its sulphate in breast cyst fluid. Lai LC, et al. **Br J Cancer** 1989 Sep;60(3):320–3

Pregnenolone, dehydroepiandrosterone, and their sulfate and fatty acid esters in the rat brain. Jo DH, et al. **Steroids** 1989 Sep;54(3):287–97

BIOSYNTHESIS

Steroid biosynthesis in the Sertoli–Leydig cell tumor: effects of insulin and luteinizing hormone. Nagamani M, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1738–43

Modulation of adrenocorticotropin–stimulated baboon fetal adrenal dehydroepiandrosterone formation in vitro by estrogen at mid– and late gestation. Albrecht ED, et al. **Endocrinology** 1990 Jun;126(6):3083–8

Metabolic clearance rate (MCR) of dehydroepiandrosterone sulfate (DS), its metabolism to dehydroepiandrosterone, androstenedione, testosterone, and dihydrotestosterone, and the effect of increased plasma DS concentration on DS MCR in normal women. Haning RV Jr, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1047–52

BLOOD

Cost effectiveness of routine gonadotropin and androgen measurements in hirsute women. Helfer EL, et al. **Am J Med Sci** 1990 Feb;299(2):94–7

Esterification of dehydroepiandrosterone by human plasma HDL. Leszczynski DE, et al. **Biochim Biophys Acta** 1989 Oct 30;1014(1):90–7

Relationship of serum levels of dehydroepiandrosterone and dehydroepiandrosterone sulfate to the risk of developing postmenopausal breast cancer. Gordon GB, et al. **Cancer Res** 1990 Jul 1;50(13):3859–62

Serum dehydroepiandrosterone and cortisol concentration in the maternal–fetoplacental hormonal system in elective caesarean section and spontaneous vaginal delivery in the 28th to 36th and 40th weeks of pregnancy. Hercz P, et al. **Gynecol Obstet Invest** 1990;29(2):112–4

Plasma dehydroepiandrosterone–to–cortisol ratios as an indicator of stress in gynecologic patients. Ozasa H, et al. **Gynecol Oncol** 1990 May;37(2):178–82

Changes in basal plasma testosterone, cortisol, and dehydroepiandrosterone sulfate in previously untrained males and females preparing for a marathon. Keizer H, et al. **Int J Sports Med** 1989 Oct;10 Suppl 3:S139–45 (44 ref.)

Long term effects of a first pregnancy on serum concentrations of dehydroepiandrosterone sulfate and dehydroepiandrosterone. Key TJ, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1651–3

Marked attenuation of ultradian and circadian rhythms of dehydroepiandrosterone in postmenopausal women: evidence for a reduced 17,20–desmolase enzymatic activity. Liu CH, et al. **J Clin Endocrinol Metab** 1990 Oct; 71(4):900–6

Steroid response to adrenocorticotropin stimulation in children with human immunodeficiency virus infection [see comments] Oberfield SE, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):578–81 Comment in: J Clin Endocrinol Metab 1990 Mar;70(3):563–5.

Lipoproteins: carriers of dehydroepiandrosterone fatty acid esters in human serum. Roy R, et al. **J Steroid Biochem** 1989;34(1–6):559–61

Serum levels of dehydroepiandrosterone sulfate as determined by commercial kits and reagents. Chasalow FI, et al. **Steroids** 1989 Oct;54(4):373–83

[Correlation between the levels of catecholamines (noradrenaline, adrenaline) and adrenal steroids (DHA–S, cortisol) in maternal and fetal blood during pregnancy and labor] Suzuki A, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Aug 20;65(8):704–14 (Eng. Abstr.) **(Jpn)**

[Clinical significance of serum dehydroepiandrosterone and dehydroepiandrosterone sulfate analysis in endocrine tests of the adrenal cortex] Nawata H, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:1217–20 **(Jpn)**

[Endocrine function of the feto–placental complex in anemia of varying degrees of severity] Gavrilov VIa. **Akush Ginekol (Mosk)** 1989 Aug;(8):14–6 (Eng. Abstr.) **(Rus)**

[Analysis of plasma levels of dehydroepiandrosterone and 17–hydroxyprogesterone in physiologic and pathologic pregnancy and labor] Zakharova OI, et al. **Akush Ginekol (Mosk)** 1989 Aug;(8):17–20 (Eng. Abstr.) **(Rus)**

METABOLISM

Inhibition of aflatoxin B1 binding to hepatic DNA by dehydroepiandrosterone in vivo. Prasanna HR, et al. **Carcinogenesis** 1989 Dec;10(12):2197–200

Dehydroepiandrosterone and dehydroepiandrosterone sulfate metabolism in human genital skin. Kaufman FR, et al. **Fertil Steril** 1990 Aug;54(2):251–4

Steroid sulfohydrolase in human chorion and decidua: studies using pregnenolone sulfate and dehydroepiandrosterone sulfate as substrate. Chibbar R, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1693–701

[Indirect perfusion with dehydroepiandrosterone and its conjugates in guinea pigs] Rindt W, et al. **Acta Endocrinol (Copenh)** 1967 Aug;55(4):656–60 **(Ger)**

PHARMACOKINETICS

Bimodal correlation between the circulating insulin level and the production rate of dehydroepiandrosterone: positive correlation in controls and negative correlation in the polycystic ovary syndrome with acanthosis nigricans. Farah MJ, et al. **J Clin Endocrinol Metab** 1990 Apr; 70(4):1075–81

[Lipophilic steroid conjugates. III. Half–life determination of biosynthetic dehydroepiandrosterone sulfatide] Weinand K, et al. **Acta Endocrinol (Copenh)** 1966 Feb;51(2):210–4 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Oestrogen levels in urine and amniotic fluid in pregnancy with live anencephalic foetus and the effect of intra–amniotic injection of sodium dehydroepiandrosterone sulphate on these levels. Michie EA. **Acta Endocrinol (Copenh)** 1966 Apr;51(4):535–42

Mechanisms of chemoprevention by dietary dehydroisoandrosterone. Inhibition of lymphopoiesis. Risdon G, et al. **Am J Pathol** 1990 Apr;136(4):759–69

Dehydroepiandrosterone and related steroids induce multilamellar lipid structures in cultured human endothelial cells. Sholley MM, et al. **Am J Pathol** 1990 May; 136(5):1187–99

Dehydroepiandrosterone reduces cancellous bone osteopenia in ovariectomized rats. Turner RT, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E673–7

Inhibition of rabbit lung glucose–6–phosphate dehydrogenase by dehydroepiandrosterone augments oxidant injury. Heffner JE, et al. **Am J Respir Cell Mol Biol** 1990 Mar; 2(3):257–61

Morphometric analysis of human epidermis treated with testosterone and dehydroepiandrosterone in organ culture. Tammi R, et al. **Arch Dermatol Res** 1989;281(6):417–23

Effect of short–term exposure of rats to dehydroepiandrosterone on the hepatic metabolism of dimethylnitrosamine. Prasanna HR, et al. **Biochem J** 1989 Sep 15;262(3):985–8

Biochemical modulation of 5–fluoropyrimidine toxicity by dehydroepiandrosterone in human colonic adenocarcinoma cells. Nyce J, et al. **Cancer Commun** 1990;2(6):213–7

Differential effects of dehydroepiandrosterone and clofibrate on the binding of 7,12–dimethyl benz(a)anthracene to hepatic DNA in vivo—a preliminary study. Prasanna HR, et al. **Drug Chem Toxicol** 1989 Sep–Dec;12(3–4):327–35

Regulation of murine lymphokine production in vivo. II. Dehydroepiandrosterone is a natural enhancer of interleukin 2 synthesis by helper T cells. Daynes RA, et al. **Eur J Immunol** 1990 Apr;20(4):793–802

Effect of dehydroepiandrosterone treatment on liver metabolism in rats. Cleary MP. **Int J Biochem** 1990; 22(3):205–10 (42 ref.)

Dehydroepiandrosterone and related steroids inhibit mitochondrial respiration in vitro. Mohan PF, et al. **Int J Biochem** 1989;21(10):1103–7

Thyroid hormone–mediated transcriptional activation of the rat liver malic enzyme gene by dehydroepiandrosterone. Song MK, et al. **J Biol Chem** 1989 Nov 15;264(32):18981–5

The effects of oral dehydroepiandrosterone on endocrine–metabolic parameters in postmenopausal women. Mortola JF, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):696–704

Peroxisome proliferation and induction of peroxisomal enzymes in mouse and rat liver by dehydroepiandrosterone feeding. Frenkel RA, et al. **J Steroid Biochem** 1990 Feb; 35(2):333–42

Antiglucocorticoid actions of dehydroepiandrosterone and low concentrations in Alzheimer's disease [letter] Svec F, et al. **Lancet** 1989 Dec 2;2(8675):1335–6

Protection from glucocorticoid induced thymic involution by dehydroepiandrosterone. May M, et al. **Life Sci** 1990; 46(22):1627–31

Hormonal regulation of complement biosynthesis in human cell lines—I. Androgens and gamma–interferon stimulate the biosynthesis and gene expression of C1 inhibitor in human cell lines U937 and HepG2. Falus A, et al. **Mol Immunol** 1990 Feb;27(2):191–5

Investigation into the effect of DHEA on renal carcinogenesis induced in the rat by a single dose of DMN. Ogiu T, et al. **Nutr Cancer** 1990;14(1):57–67

Biological effects of adrenal androgens on MCF–7 and BT–20 human breast cancer cells. Najid A, et al. **Oncology** 1990; 47(3):269–74

Suppressive effects of dehydroepiandrosterone and 3–beta–methylandrost–5–en–17–one on attack towards

lactating female intruders by castrated male mice. Haug M, et al. **Physiol Behav** 1989 Dec;46(6):955–9
Further studies on the effects of dehydroepiandrosterone on hepatic metabolism in BHE rats. Berdanier CD, et al. **Proc Soc Exp Biol Med** 1989 Dec;192(3):242–7
Dehydroepiandrosterone feeding and protein phosphorylation, phosphatases, and lipogenic enzymes in mouse liver. Marrero M, et al. **Proc Soc Exp Biol Med** 1990 Feb;193(2):110–7

PHYSIOLOGY

Serum amyloid P component regulation by sex steroids in rats. Hashimoto S, et al.
Nippon Ketsueki Gakkai Zasshi 1990 Feb;53(1):89–97
[Dehydroepiandrosterone. Renaissance after 13 years] Sonka J. **Cas Lek Cesk** 1989 Sep 8;128(37):1157–60 (Eng. Abstr.) (Cze)

SECRETION

[The role of ACTH in regulating dehydroepiandrosterone secretion in primates] Katsiia GV, et al.
Probl Endokrinol (Mosk) 1990 Jan–Feb;36(1):58–62 (Eng. Abstr.) (Rus)

THERAPEUTIC USE

Inhibition of 7,12–dimethylbenz[a]anthracene–initiated and 12–O–tetradecanoylphorbol–13–acetate–promoted skin papilloma formation in mice by dehydroepiandrosterone and two synthetic analogs. Schwartz AG, et al.
Carcinogenesis 1989 Oct;10(10):1809–13
Lack of effect of dehydroepiandrosterone in obese men. Uniskin KS, et al. **Int J Obes** 1990;14(5):457–63
Effects of dehydroepiandrosterone treatment in rats with diet–induced obesity. Mohan PF, et al. **J Nutr** 1990 Sep; 120(9):1103–14
Dehydroepiandrosterone and Alzheimer's disease [letter; comment] Mohan PF. **Lancet** 1989 Oct 28;2(8670):1048–9 Comment on: Lancet 1989 Sep 2;2(8662):570.

URINE

The urinary dehydroepiandrosterone, androsterone and etiocholanolone excretion of healthy women and women with benign and malignant breast disease. Ivanović S, et al. **J Clin Pharm Ther** 1990 Jun;15(3):213–9

DEHYDROGENASES see **OXIDOREDUCTASES**

DEHYDROISOANDROSTERONE see **DEHYDROEPIANDROSTERONE**

DEHYDROMETHYLTESTOSTERONE see **METHANDROSTENOLONE**

11–DEHYDROPROSTAGLANDIN F2ALPHA see **PROSTAGLANDIN D2**

DEINSTITUTIONALIZATION

Sociological factors associated with substance abuse among new chronic patients. Bachrach LL. **Adolesc Psychiatry** 1989;16:189–201
Changes in adaptive behavior of older adults with mental retardation following deinstitutionalization. Fine MA, et al. **Am J Ment Retard** 1990 May;94(6):661–8
The role of speech–language pathologists and audiologists in service delivery for persons with mental retardation and developmental disabilities in community settings. Committee on Mental Retardation/Developmental Disabilities. American Speech–Language–Hearing Association. **ASHA** 1990 Apr;32(4 Suppl 2):5–6
Community psychiatry: are we coping? [letter; comment] Tyrer P. **Br J Hosp Med** 1989 Nov;42(5):426 Comment on: Br J Hosp Med 1989 Aug;42(2):101.
The differential impact of deinstitutionalization on white and nonwhite defendants found incompetent to stand trial. Arvanites TM. **Bull Am Acad Psychiatry Law** 1989; 17(3):311–20
Follow–up after release of insanity acquittees, mentally disordered offenders, and convicted felons. Silver SB, et al. **Bull Am Acad Psychiatry Law** 1989;17(4):387–400
Barriers to housing for deinstitutionalized psychiatric patients. Alisky JM, et al. **Hosp Community Psychiatry** 1990 Jan;41(1):93–5
Follow–up of community placement of the chronic mentally ill in New South Wales. Andrews G, et al.
Hosp Community Psychiatry 1990 Feb;41(2):184–8
Homelessness in Australia [letter] Buhrich N, et al.
Hosp Community Psychiatry 1990 Mar;41(3):331
Who profits from deinstitutionalization? Marcos LR.
Hosp Community Psychiatry 1989 Dec;40(12):1221
Britain blazing a well–worn trail [editorial] Weller MP.
Hosp Community Psychiatry 1990 Mar;41(3):239
Diagnostic consultation to a state hospital. Wilson WH.
Hosp Community Psychiatry 1989 Dec;40(12):1290–3
Perspectives of people with learning difficulties on relocation and community care. Booth T, et al. **Int J Rehabil Res** 1989;12(2):167–74
Classification system for the chronic mentally ill outpatient. Wittman L, et al. **Int J Psychiatry Relat Sci** 1990; 27(1):17–28
Evaluation of a community treatment program for young adult schizophrenics. McClary S, et al. **J Clin Psychol** 1989 Sep;45(5):806–8
The development of factor–based level of functioning scales from a level of care instrument. Massey OT, et al.
J Clin Psychol 1989 Nov;45(6):903–9
Moving out: an opportunity for friendship and broadening social horizons? Jahoda A, et al. **J Ment Defic Res** 1990 Apr;34 (Pt 2):127–41
Surviving without the asylum. An overview of the studies on the Italian reform movement. Bollini P, et al.
J Nerv Ment Dis 1989 Oct;177(10):607–15 (68 ref.)
Staying well. Factors contributing to successful community adaptation. Joyce B, et al.
J Psychosoc Nurs Ment Health Serv 1990 Jun;28(6):18–24

ECONOMICS

The evaluation of mental health care systems [see comments] Häfner H, et al. **Br J Psychiatry** 1989 Jul;155:12–7 Comment in: Br J Psychiatry 1990 Jan;156:129–31.
Economic barriers to widespread implementation of model programs for the seriously mentally ill. Torrey EF.
Hosp Community Psychiatry 1990 May;41(5):526–31
Rest home subsidies for psychiatric and psychopaedic patients [letter] Melding P. **N Z Med J** 1990 Apr 25; 103(888):190–1

LEGISLATION & JURISPRUDENCE

Empowering people with physical disabilities through advocacy skills training. Balcazar FE, et al.
Am J Community Psychol 1990 Apr;18(2):281–96
Second–generation deinstitutionalization, I: The impact of Brewster v. Dukakis on state hospital case mix. Geller JL, et al. **Am J Psychiatry** 1990 Aug;147(8):982–7
Second–generation deinstitutionalization, II: The impact of Brewster v. Dukakis on correlates of community and hospital utilization. Geller JL, et al. **Am J Psychiatry** 1990 Aug;147(8):988–93
A transition period in psychiatric care in Italy ten years after the reform. Crepet P. **Br J Psychiatry** 1990 Jan;156:27–36
Community care of the severely mentally ill: is social control a "necessary evil" in policy–making considerations? Aviram U. **Psychiatr Q** 1990 Summer;61(2):77–86
[Psychiatric long–term hospitalization—and how does life go on?] Nitzsche M, et al. **Z Gesamte Hyg** 1989 Sep; 35(9):518–23 (Eng. Abstr.) (Ger)

METHODS

Resettlement of old long–stay psychiatric patients: the use of the private sector. Perkins RE, et al.
Br J Psychiatry 1989 Aug;155:233–8
Returning the not guilty by reason of insanity to the community: a new scale to determine readiness. Eisner HR.
Bull Am Acad Psychiatry Law 1989;17(4):401–13

ORGANIZATION & ADMINISTRATION

Administrative planning in community mental health. Polcin DL. **Community Ment Health J** 1990 Apr;26(2):181–92

TRENDS

Patterns of psychiatric care in south Verona and Groningen. A case–register follow–up study. Balestrieri M, et al.
Acta Psychiatr Scand 1989 Nov;80(5):437–44
From theory to practice in the care and education of mentally retarded individuals. Zigler E, et al. **Am J Ment Retard** 1990 Jul;95(1):1–12; discussion 13–31 (60 ref.)
Deinstitutionalisation—from hospital closure to service development. Thornicroft G, et al. **Br J Psychiatry** 1989 Dec;155:739–53 (190 ref.)
Community care of the seriously mentally ill: continuing problems and current issues. Aviram U.
Community Ment Health J 1990 Feb;26(1):69–88 (79 ref.)
Measuring the treatment environment of a psychiatric ward and a community mental health center after the Italian reform. Burti L, et al. **Community Ment Health J** 1990 Apr;26(2):193–204
Patients refused admission to psychiatric hospitals in The Netherlands. Brook OH.
Eur Arch Psychiatry Neurol Sci 1990;239(5):325–30
The impact of deinstitutionalization on the current treatment of the mentally ill. Durham ML. **Int J Law Psychiatry** 1989; 12(2–3):117–31
Ironies of inclusion: social class and deinstitutionalization. Wagenaar H, et al. **J Health Polit Policy Law** 1989 Fall; 14(3):503–22 (27 ref.)
Overview of a research programme designed to address key issues in the planning and delivery of services for people with mental handicap. Griffin J. **J Ment Defic Res** 1989 Dec;33 (Pt 6):477–85
Community first [editorial] Rowitz L, et al. **Ment Retard** 1990 Jun;28(3):iii–iv
The chronically mentally ill: planning a future. Draper RJ. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):463–6
[Community psychiatry in Offenbach—a short–cut for local psychiatric service] Bauer M, et al. **Psychiatr Prax** 1990 Mar;17(2):51–8 (Eng. Abstr.) (Ger)
[Reduction of complete inpatient treatment by a system of partial hospitalization, ambulatory and complementary services] Bolm W, et al. **Psychiatr Prax** 1989 Nov; 16(6):199–206 (Eng. Abstr.) (Ger)
[The function of the independent day clinic in psychiatric treatment] Engelke W. **Psychiatr Prax** 1989 Nov; 16(6):218–21 (Eng. Abstr.) (Ger)
[Possibilities in the management of long–term patients outside the psychiatric hospital; clinical assessment by the treatment staff in The Netherlands] Haveman MJ.
Psychiatr Prax 1989 Nov;16(6):207–13 (Eng. Abstr.) (Ger)
[Full inpatient versus partial inpatient psychiatric after–care—a comparative retrospective study] Vaitl P, et al. **Psychiatr Prax** 1989 Nov;16(6):214–7 (Eng. Abstr.) (Ger)
[Development of semi–inpatient care] Sauerteig KH, et al. **Z Gesamte Hyg** 1990 Jan;36(1):16–8 (0 ref.) (Eng. Abstr.) (Ger)

DEITERS NUCLEUS see under **VESTIBULAR NUCLEI**

DEJERINE–SOTTAS DISEASE see **NEUROPATHIES, HEREDITARY MOTOR AND SENSORY**

DELAYED–ACTION PREPARATIONS

Effect of montmorillonite on drug release from polymeric matrices. Forni F, et al. **Arch Pharm (Weinheim)** 1989 Nov; 322(11):789–93
Swelling–restricted minimatrices for controlled release of drugs. Preliminary in–vivo studies. Caramella C, et al.
Boll Chim Farm 1989 Oct;128(10):310–4
Computer–assisted development of modified–release dosage forms. Caramella C, et al. **Drug Metab Rev** 1989; 21(2):335–49 (10 ref.)
Pharmacokinetic characterization of controlled–release formulations. Steinijans VW.
Eur J Drug Metab Pharmacokinet 1990 Apr–Jun; 15(2):173–81 (24 ref.)
Oral controlled release optimization of pellets prepared by extrusion–spheronization processing. Bianchini R, et al.
Farmaco 1989 Jun;44(6):645–54
Sustained–release dosage forms. Geraets D, et al.
Iowa Med 1990 Feb;80(2):90–4
Amphiphilic networks: II. Biocompatibility and controlled drug release of poly[isobutylene–co–2–(dimethylamino)ethyl methacrylate]. Chen D, et al. **J Biomed Mater Res** 1989 Nov;23(11):1327–42
Drug delivery systems: 3B. Role of polymers in drug delivery. Ranade VV. **J Clin Pharmacol** 1990 Feb; 30(2):107–20
Biodegradable poly(lactic acid) and poly(lactide–co–glycolide) microcapsules: problems associated with preparative techniques and release properties. Jalil R, et al. **J Microencapsul** 1990 Jul–Sep; 7(3):297–325 (133 ref.)
Drug release from laminated polymeric films prepared from aqueous latexes. Bodmeier R, et al. **J Pharm Sci** 1990 Jan; 79(1):32–6
Kinetics of protein diffusion from a poly(D,L–lactide) reservoir system. Marcotte N, et al. **J Pharm Sci** 1990 May; 79(5):407–10
Sustained active ingredient release from drugs: statistical model for random sample assessment in vitro. Peil H, et al. **J Pharm Sci** 1989 Nov;78(11):955–9
Rate–control drug delivery systems: controlled release vs. sustained release. Chien YW. **Med Prog Technol** 1989; 15(1–2):21–46 (56 ref.)
Transdermal therapeutic systems and rate controlled drug delivery. Yum SI. **Med Prog Technol** 1989;15(1–2):47–52 (4 ref.)
New directions in CNS drug delivery. Langer R, et al.
Neurobiol Aging 1989 Sep–Oct;10(5):642–4; discussion 648–50
Sustained and controlled release of neuroactive substances in the CNS by encapsulation into implantable polymers. Peterson GM. **Neurobiol Aging** 1989 Sep–Oct;10(5):639–40; discussion 648–50
Swelling–controlled release, swelling/erosion mechanisms, and front synchronization: comments on the paper by Devi et al [letter] Colombo P, et al. **Pharm Res** 1990 Apr; 7(4):431–2
Polyvinyl alcohol–methyl acrylate copolymers as a sustained–release oral delivery system. DiLuccio RC, et al. **Pharm Res** 1989 Oct;6(10):844–7
Sustained–release delivery systems for treatment of dental diseases. Friedman M, et al. **Pharm Res** 1990 Apr;7(4):313–7 (45 ref.)
[Preparation of drugs in extrusion pellets with a thermoplastic base. 1. Drug liberation] Mank R, et al. **Pharmazie** 1989 Nov;44(11):773–6 (Eng. Abstr.) (Ger)
[Preparation of peroral delayed–action drug forms using biological polymers as the base. 4. Preparation of erosion tablets with a base of starch hydrolysis products] Mank R, et al. **Pharmazie** 1989 Sep;44(9):617–8 (Eng. Abstr.) (Ger)
[Formal requirements and a cultural approach to the control of slow–release dosage forms] Ciranni Signoretti E.
Boll Chim Farm 1989 Jun;128(6):199–201 (Eng. Abstr.) (Ita)

CHEMICAL SYNTHESIS

Controlled drug release from bioerodible hydrophobic ointments. Heller J, et al. **Biomaterials** 1990 May; 11(4):235–7

STANDARDS

Sustained-release dosage forms. Geraets D, et al. **Iowa Med** 1990 Mar;80(3):141–6 (4 ref.)

DELAYED EFFECTS, PRENATAL EXPOSURE see **PRENATAL EXPOSURE DELAYED EFFECTS**

DELIRIUM

Delirium in hospitalized elderly. Francis J, et al. **J Gen Intern Med** 1990 Jan–Feb;5(1):65–79 (214 ref.)

BLOOD

Low serum albumin levels and risk of delirium [letter] Trzepacz PT, et al. **Am J Psychiatry** 1990 May;147(5):675

CEREBROSPINAL FLUID

Cerebrospinal fluid somatostatin in delirium. Koponen H, et al. **Psychol Med** 1989 Aug;19(3):605–9

CHEMICALLY INDUCED

Toxic delirium in a patient taking amantadine and trimethoprim–sulfamethoxazole. Speeg KV, et al. **Am J Med Sci** 1989 Dec;298(6):410–2

Cocaine-induced delirium versus delusional disorder [letter; comment] Pearlson GD, et al. **Biol Psychiatry** 1989 Dec; 26(8):847–8 Comment on: Biol Psychiatry 1988 Dec;24(8):865–85.

Acute confusional state with postoperative intravenous cefazolin. Herd AM, et al. **BMJ** 1989 Aug 5; 299(6695):393–4

Long term exposure to industrial solvents [letter] Kandel E, et al. **Br J Ind Med** 1989 Oct;46(10):750

Diazepam induced delirium. Madan R, et al. **Indian J Ophthalmol** 1989 Jan–Mar;37(1):35–6

Case of delirium secondary to phenelzine/L-tryptophan combination [letter] Alvine G, et al. **J Clin Psychiatry** 1990 Jul;51(7):311

A case of bupropion–associated delirium. Dager SR, et al. **J Clin Psychiatry** 1990 Jul;51(7):307–8

Delirium associated with bupropion [letter] van Putten T, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):234

Ranitidine–associated delirium. Eisendrath SJ, et al. **Psychosomatics** 1990 Winter;31(1):98–100

[Psychic effects of drugs prescribed for hypertensive patients. An experiment of the Regional Drug Monitoring Center in Marseilles] Jouglard J, et al. **Therapie** 1990 Jan–Feb; 45(1):37–41 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Take as directed [letter] Byrd TM. **J Am Geriatr Soc** 1990 Apr;38(4):492–3

[Hip fractures in the elderly, mortality, functional results and possibility of returning home (letter)] van der Veer JK, et al. **Ned Tijdschr Geneeskd** 1990 Jul 28;134(30):1470–1 **(Dut)**

DIAGNOSIS

Dysgraphia [letter] Patten SB, et al. **Can J Psychiatry** 1989 Oct;34(7):746

Delirium in the elderly. Johnson JC. **Emerg Med Clin North Am** 1990 May;8(2):255–65 (34 ref.)

Delirium in the elderly hospitalized patient. Jahnigen DW. **Hosp Pract [Off]** 1990 Aug 15;25(8):135–9, 142, 152 passim

Evaluation of cognitive impairment in the elderly. Ramsdell JW, et al. **J Gen Intern Med** 1990 Jan–Feb;5(1):55–64 (44 ref.)

Using DSM–III criteria to diagnose delirium in elderly general medical patients. Johnson JC, et al. **J Gerontol** 1990 May;45(3):M113–9

DRUG THERAPY

Treatment of acute nonspecific delirium with i.v. haloperidol in surgical intensive care patients. Moulaert P. **Acta Anaesthesiol Belg** 1989;40(3):183–6

Management of delirium in terminally ill AIDS patients. Fernandez F, et al. **Int J Psychiatry Med** 1989;19(2):165–72 (16 ref.)

Striatal dopamine D2 receptors in tardive dyskinesia: PET study. Blin J, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1248–52

[Delirium conditions. 2: Therapy] von Albert HH. **Fortschr Med** 1990 Mar 20;108(8):161 **(Ger)**

ETIOLOGY

Delirium in older adults. Lipowski ZJ. **Adv Psychosom Med** 1989;19:1–16 (46 ref.)

Uncommon presentation of a common problem. Smally AJ. **Hosp Pract [Off]** 1990 Mar 30;25(3A):33, 36

Delirium after elective orthopedic surgery: risk factors and natural history. Rogers MP, et al. **Int J Psychiatry Med** 1989;19(2):109–21

Delirium and neuromuscular symptoms in an elderly man with isolated corticotroph-deficiency syndrome completely reversed with glucocorticoid replacement. Fang VS, et al. **J Clin Endocrinol Metab** 1989 Nov; 69(5):1073–7

A prospective study of delirium in hospitalized elderly. Francis J, et al. **JAMA** 1990 Feb 23;263(8):1097–101

Neuropsychiatric manifestations of typhoid fever. Venkatesh S, et al. **West Indian Med J** 1989 Sep;38(3):137–41

[Postoperative transitory syndrome and delirium] Hege–Scheuing G. **Anaesthesist** 1989 Sep;38(9):443–51 (56 ref.) (Eng. Abstr.) **(Ger)**

[Symptoms of delirium. 1: Clinical manifestations and diagnosis] von Albert HH. **Fortschr Med** 1990 Mar 20; 108(7):138–9 **(Ger)**

[Unfavorable course of recurrent (schizoaffective) schizophrenia] Mosolov SN. **Zh Nevropatol Psikhiatr** 1990; 90(1):80–7 (Eng. Abstr.) **(Rus)**

NURSING

Delirium in patients with cancer: nursing assessment and intervention. Zimberg M, et al. **Oncol Nurs Forum** 1990 Jul–Aug;17(4):529–38

PHYSIOPATHOLOGY

EEG spectral analysis in delirium. Koponen H, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):980–5

PSYCHOLOGY

[4 cases of fits of delirium following pilgrimages or spiritual retreats] Bermejo E. **Rev Med Suisse Romande** 1990 Jan; 110(1):35–7 **(Fre)**

DELIVERY

see related
BIRTH INJURIES
DYSTOCIA
LABOR PRESENTATION

100 cases of external cephalic version, with special reference to fetomaternal transfusion. Nord E, et al. **Acta Obstet Gynecol Scand** 1989;68(1):55–8

Occipital osteodiastasis. A rare complication in cephalic delivery. Roche MC, et al. **Acta Paediatr Scand** 1990 Mar; 79(3):380–2

Difference in TcB readings between full term newborn infants born vaginally and by cesarean section. Yamauchi Y, et al. **Acta Paediatr Scand** 1989 Nov;78(6):824–8

Birth weight discordancy in male–first and female–first pairs of unlike–sexed twins. Blickstein I, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):661–3

Ultrasonography and external cephalic version at term. Donald WL, et al. **Am J Obstet Gynecol** 1990 Jun; 162(6):1542–5; discussion 1545–7

Successful pregnancy and normal delivery with Marlex mesh replacement of the abdominal wall. Ezra Y, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):97–8

Severe acidosis and subsequent neurologic status. Fee SC, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):802–6

Vaginal birth after cesarean section: an appraisal of the reappraisal [letter] Flamm BL. **Am J Obstet Gynecol** 1990 Aug;163(2):691–2

Cerebral palsy and intrapartum fetal acidemia [letter] Goodlin RC. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):266–7

Plasma atrial natriuretic factor and urinary excretion of a ouabain displacing factor and dopamine in normotensive pregnant women before and after delivery. Gregoire I, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):71–6

The efficacy of external cephalic version and its impact on the breech experience. Hanss JW Jr. **Am J Obstet Gynecol** 1990 Jun;162(6):1459–63; discussion 1463–4

The case for routine umbilical blood acid–base studies at delivery. Johnson JW, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):621–5

Morphologic study of changes of collagenous tissue in the amnion and cervix during prostaglandin–induced abortion and delivery. Manabe Y, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):52–6

The effect of mode of delivery on the perinatal outcome in fetuses with abdominal wall defects. Moretti M, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):833–8

Fetal acoustic stimulation in the early intrapartum period as a predictor of subsequent fetal condition. Sarno AP, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):762–7

Cost–effectiveness of intrapartum screening and treatment for maternal group B streptococci colonization. Strickland DM, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):4–8

Smoking, maternal age, fetal growth, and gestational age at delivery. Wen SW, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):53–8

Vaginal birth after cesarean section: a reappraisal of risk. Yetman TJ, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1119–23

Different characteristics of amniotic and cervical collagenous tissue during pregnancy and delivery: a morphologic study. Yoshida Y, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):190–3

The relation of obstetrical volume and nursery level to perinatal mortality. Mayfield JA, et al. **Am J Public Health** 1990 Jul;80(7):819–23

Unlicensed midwifery practice in Washington state. Myers SJ, et al. **Am J Public Health** 1990 Jun;80(6):726–8

C-reactive protein (CRP) levels after normal and complicated caesarean section. Stavén P, et al. **Ann Chir Gynaecol** 1989;78(2):142–5

Prehospital and emergency department delivery: a review of eight years experience. Brunette DD, et al. **Ann Emerg Med** 1989 Oct;18(10):1116–8

Vaginal delivery following one previous cesarean birth: nation wide survey. Mor–Yosef S, et al. **Asia Oceania J Obstet Gynaecol** 1990 Mar;16(1):33–7

Intervention rates in spontaneous term labour in low risk nulliparous women. Cary AJ. **Aust N Z J Obstet Gynaecol** 1990 Feb;30(1):46–51

Obstetric accidents [letter] **BMJ** 1990 Jun 23; 300(6740):1651–2

Neonatal thyrotrophin and mode of delivery. Lao TT, et al. **Br J Obstet Gynaecol** 1989 Oct;96(10):1224–7

Midwifery in The Netherlands. The Wormerveer study; selection, mode of delivery, perinatal mortality and infant morbidity. van Alten D, et al. **Br J Obstet Gynaecol** 1989 Jun;96(6):656–62

So you want to have the baby at home? [letter; comment] [see comments] Nisker JA, et al. **Can Med Assoc J** 1989 Oct 15;141(8):765 Comment on: Can Med Assoc J 1989 Aug 1;141(3):248. Comment in: Can Med Assoc J 1990 May 1;142(9):922, 924.

So you want to have the baby at home? [letter; comment] Steever CS. **Can Med Assoc J** 1989 Dec 15;141(12):1222 Comment on: Can Med Assoc J 1989 Aug 1;141(3):248.

Critical issues in intrapartum and delivery room management. **Clin Perinatol** 1989 Dec;16(4):785–1028

Perinatal management of congenital diaphragmatic hernia and anterior abdominal wall defects. Caplan MS, et al. **Clin Perinatol** 1989 Dec;16(4):917–38 (161 ref.)

Nonimmune hydrops fetalis: a multidisciplinary approach. Carlton DP, et al. **Clin Perinatol** 1989 Dec;16(4):839–51 (62 ref.)

Intrapartum and delivery room management of premature rupture of membranes complicated by oligohydramnios. Kilbride HW, et al. **Clin Perinatol** 1989 Dec;16(4):863–88 (109 ref.)

The role of the neonatal intensive care nurse in the delivery room. Kimberlin LV, et al. **Clin Perinatol** 1989 Dec; 16(4):1021–8 (9 ref.)

Use of surfactant in the delivery room. Kwong MS, et al. **Clin Perinatol** 1989 Dec;16(4):853–62 (33 ref.)

Relationship of intrapartum and delivery room events to long–term neurologic outcome. Nelson KB. **Clin Perinatol** 1989 Dec;16(4):995–1007 (55 ref.)

Insulin management during labour and delivery in mothers with diabetes. Lean ME, et al. **Diabetic Med** 1990 Feb; 7(2):162–4

Serum concentration of alpha 1–acid glycoprotein and albumin following cesarean section and vaginal delivery [letter] Larijani GE, et al. **DICP** 1990 Mar;24(3):328–9

Socio–psychological factors affecting emergency obstetric deliveries at the University College Hospital, Ibadan, Nigeria. Adewunmi OA, et al. **East Afr Med J** 1990 Feb; 67(2):79–85

Maternity care routines in a teaching hospital in Zambia. Ransjö–Arvidson AB, et al. **East Afr Med J** 1989 Jul; 66(7):427–36

Place of delivery in The Netherlands: maternal motives and background variables related to preferences for home or hospital confinement. Kleiverda G, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Jul–Aug; 36(1–2):1–9

Mode of delivery and lymphocyte beta 2–adrenoceptor density in parturients and newborns. Santala M. **Gynecol Obstet Invest** 1989;28(4):174–7

Institutional intra–natal care services—extent and pattern of its utilisation in rural areas. Mukherjee KL, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):31–2

Mode of delivery in Ehlers–Danlos syndrome: a reappraisal of the current approach. Blumenfeld Z, et al. **Int J Dermatol** 1989 Nov;28(9):621–3

A needs assessment study of traditional birth attendants in rural Kenya. Solomon MM, et al. **Int J Gynaecol Obstet** 1989 Dec;30(4):329–34

Methylergometrine and puerperal infections after normal delivery and after cesarean section. Iatrakis GM, et al. **Isr J Med Sci** 1989 Dec;25(12):714–5

Patient selection and outcomes for out–of–hospital births in one family practice [see comments] Acheson LS, et al. **J Fam Pract** 1990 Aug;31(2):128–36 Comment in: J Fam Pract 1990 Aug;31(2):125–7.

Low–intervention maternity care [comment] Rooks JP. **J Fam Pract** 1990 Aug;31(2):125–7 Comment on: J Fam Pract 1990 Aug;31(2):128–36.

Delivering obstetrics from liability crisis [editorial] Freedman MA. **J Med Assoc Ga** 1990 Feb;79(2):79–80

Triplets with conjoined twins. A Nigerian midwife's case report. Iroku RO, et al. **J Nurse Midwifery** 1990 Mar–Apr; 35(2):107–9

Perinatal glucose metabolism as an indicator for stress and hypoxia during different forms of delivery. Nikiachin W, et al. **J Perinat Med** 1990;18(3):209–13

Delivery of the low birthweight and the very low birthweight breech: cesarean section or vaginal delivery? Suidan JS, et al. **J Perinat Med** 1989;17(2):145–9

Survival and long–term outcome of infants delivered at 24 to 28 weeks' gestation, by method of delivery and fetal presentation. Weissman A, et al. **J Perinatol** 1989 Dec; 9(4):372–5

The traditional midwife in Saudian villages. al–Sekait MA. **J R Soc Health** 1989 Aug;109(4):137, 140

Vaginal birth after cesarean section. Experience in a community–based practice. van Amerongen D.

J Reprod Med 1989 Aug;34(8):531–4
Neo-natal mortality patterns in rural Bangladesh. Rahman S, et al. J Trop Pediatr 1989 Aug;35(4):199–202
Stand and deliver [editorial] Lancet 1990 Mar 31; 335(8692):761–2
Twin pregnancy and vaginal birth after heart transplantation [letter] Hedon B, et al. Lancet 1990 Feb 24;335(8687):476–7
A difficult delivery [letter; comment] Kelly J. Lancet 1990 Apr 7;335(8693):861 Comment on: Lancet 1990 Feb 17;335(8686):385–6.
Position in delivery [letter] Odent MR. Lancet 1990 May 12;335(8698):1166
Outcome of care in birth centers [letter] N Engl J Med 1990 May 24;322(21):1528–30
Birthday choices [editorial; comment] Lieberman E, et al. N Engl J Med 1989 Dec 28;321(26):1824–5 Comment on: N Engl J Med 1989 Dec 28;321(26):1804–11.
Outcomes of care in birth centers. The National Birth Center Study [see comments] Rooks JP, et al. N Engl J Med 1989 Dec 28;321(26):1804–11 Comment in: N Engl J Med 1989 Dec 28;321(26):1824–5.
Unexpected, unattended deliveries. Harper RG, et al. N Y State J Med 1990 Jun;90(6):330–1
Unsafe home births [letter; comment] Harison CS. N Z Med J 1990 Jan 24;103(882):26 Comment on: N Z Med J 1989 Nov 22;102(880):619.
Unsafe home births [letter] [see comments] Harison CS. N Z Med J 1989 Oct 11;102(877):538 Comment in: N Z Med J 1989 Dec 13;102(881):650–1.
Perineal delivery. Rahimi MA, et al. N Z Med J 1990 Sep 12;103(897):431–2
Unsafe home births [letter; comment] Sloan DS. N Z Med J 1989 Dec 13;102(881):650–1 Comment on: N Z Med J 1989 Oct 11;102(877):538.
Home births [letter] [see comments] Wilson HJ. N Z Med J 1989 Nov 22;102(880):619 Comment in: N Z Med J 1990 Jan 24;103(882):26.
The biophysical profile in labor. Sassoon DA, et al. Obstet Gynecol 1990 Sep;76(3 Pt 1):360–5
Ultrasound in labor and delivery. Treacy B, et al. Obstet Gynecol Surv 1990 Apr;45(4):213–9 (41 ref.)
Domino scheme—a GP's view. Newton F. Practitioner 1989 Mar 8;233(1464):295–7
An alternative to termination of pregnancy. Watkins D. Practitioner 1989 Jul 8;233(1472):990, 992
A prospective randomised controlled trial of external cephalic version comparing two methods of uterine tocolysis with a non-tocolysis group. Tan GW, et al. Singapore Med J 1989 Apr;30(2):155–8
[A 1-year study of the management of fetal breech presentation by monitoring follow-up during second-stage labor instead of using external version, x-ray pelvimetry and ultrasonic assessment of fetal weight] Elmahaishi MS, et al. Akush Ginekol (Sofiia) 1989;28(5):22–4 (Eng. Abstr.) (Bul)
[The significance of the environment for delivery at a special department] Abdullahi L, et al. Ugeskr Laeger 1990 Mar 12;152(11):732–4 (Eng. Abstr.) (Dan)
[Regional differences in perinatal mortality: the relationship with various aspects of perinatal care] Mackenbach JP, et al. Ned Tijdschr Geneeskd 1989 Sep 16;133(37):1839–44 (Eng. Abstr.) (Dut)
[Obstetric management and delivery in diabetics] Tchobroutsky C. Diabete Metab 1990;16(2 Pt 2):125–30 (19 ref.) (Eng. Abstr.) (Fre)
[The ideal time for delivery] Marpeau L, et al. Rev Fr Gynecol Obstet 1990 Mar;85(3):149–51 (Eng. Abstr.) (Fre)
[Delivery in cases of twin pregnancy] Mellier G, et al. Rev Fr Gynecol Obstet 1990 Feb;85(2):121–5 (Eng. Abstr.) (Fre)
[A term delivery through a cervix laceration] Marrakchi O, et al. Tunis Med 1989 Oct;67(10):645–7 (Eng. Abstr.) (Fre)
[Gestation and spontaneous delivery in hydrocephalus with ventriculoperitoneal shunt] Yoffe N, et al. Harefuah 1990 Feb 15;118(4):209–10 (Eng. Abstr.) (Heb)
[Acid–base equilibrium in umbilical cord blood. Apgar score and acid–base equilibrium in umbilical cord blood as control parameters during labor] Oksefjell H, et al. Tidsskr Nor Laegeforen 1990 Jan 20;110(2):209–12 (Eng. Abstr.) (Nor)
[Perinatal hysterectomy] Szczurowicz A, et al. Wiad Lek 1989 Jun 15;42(12):800–4 (Eng. Abstr.) (Pol)
[Seasonal nature of birth of schizophrenic patients] Gómez-Feria Prieto I. Actas Luso Esp Neurol Psiquiatr Cienc Afines 1990 Mar–Apr;18(2):125–31 (55 ref.) (Eng. Abstr.) (Spa)

ADVERSE EFFECTS

Vaginal birth after abdominal delivery [letter] Thorp JM Jr, et al. Am J Obstet Gynecol 1990 Sep;163(3):1101–2
Anorectal complications of vaginal delivery. Venkatesh KS, et al. Dis Colon Rectum 1989 Dec;32(12):1039–41
Morbidity among breech infants according to method of delivery. Croughan-Minihane MS, et al. Obstet Gynecol 1990 May;75(5):821–5
Maternal group B streptococcal vertebral osteomyelitis: an unusual complication of vaginal delivery. Lischke JH, et al. Obstet Gynecol 1990 Sep;76(3 Pt 2):489–91

HISTORY

The medicalization of childbirth in the twentieth century. Leavitt JW. Trans Stud Coll Physicians Phila 1989 Dec; 11(4):299–319

INSTRUMENTATION

The use of a cephalic perforator for delivery of the dead fetus in cases of severe abruptio placentae. Belfort MA, et al. S Afr Med J 1990 Jan 20;77(2):80–2
[A new model of obstetrical phantoms] Neimark EZ. Akush Ginekol (Mosk) 1989 Aug;(8):68–70 (Rus)

METHODS

The influence of delivery mode on biological inactive renin level in umbilical cord blood. Fujimura A, et al. Am J Hypertens 1990 Jan;3(1):23–6
Vaginal birth after cesarean or repeat cesarean section: medical risks or social realities? Kirk EP, et al. Am J Obstet Gynecol 1990 Jun;162(6):1398–403; discussion 403–5
Delivery of fetuses with gastroschisis [letter] Weiner CP. Am J Obstet Gynecol 1989 Oct;161(4):1089
Acute inversion of the uterus [letter] Collier PM. Aust N Z J Obstet Gynaecol 1990 Feb;30(1):90–1
The influence of maternal height, obstetrical conjugate and fetal birth-weight in the management of patients with breech presentation. Mahmood TA. Aust N Z J Obstet Gynaecol 1990 Feb;30(1):10–4
Symphysiotomy for the trapped aftercoming parts of the breech: a review of the literature and a plea for its use. Menticoglou SM. Aust N Z J Obstet Gynaecol 1990 Feb; 30(1):1–9 (100 ref.)
Mode of delivery and future fertility. Hall MH, et al. Br J Obstet Gynaecol 1989 Nov;96(11):1297–303
The intrapartum management of the HIV-infected mother and her infant. Connor E, et al. Clin Perinatol 1989 Dec; 16(4):899–908 (56 ref.)
The intrapartum management of the breech presentation. Gimovsky ML, et al. Clin Perinatol 1989 Dec;16(4):975–86 (42 ref.)
Perinatal management of meconium staining of the amniotic fluid. Holtzman RB, et al. Clin Perinatol 1989 Dec; 16(4):825–38 (47 ref.)
Intrapartum and delivery room management of the very low birthweight infant. Sachs BP, et al. Clin Perinatol 1989 Dec;16(4):809–23 (80 ref.)
Intrapartum management of twin gestation. Warenski JC, et al. Clin Perinatol 1989 Dec;16(4):889–97 (32 ref.)
Outcome of term breech presentation. Mahomed K, et al. East Afr Med J 1989 Dec;66(12):819–23
Care of the newborn by traditional birth attendants. Sharma N, et al. Indian Pediatr 1989 Jul;26(7):649–53
Vaginal delivery in Nigerian women after a previous cesarean section. Egwuatu VE, et al. Int J Gynaecol Obstet 1990 May;32(1):1–6
Breech delivery in a Middle East hospital. Vaclavinkova V. Int J Gynaecol Obstet 1989 Nov;30(3):241–4
Vaginal delivery after cesarean section. Veridiano NP, et al. Int J Gynaecol Obstet 1989 Aug;29(4):307–11
Forceps delivery [letter] Bachman JW. J Fam Pract 1989 Oct;29(4):360
Perspectives on childbirth. Dalton C. J Health Polit Policy Law 1989 Fall;14(3):634–41
Study of foetomaternal haemorrhage in relation to mode of delivery. Banerjee J, et al. J Indian Med Assoc 1989 May; 87(5):107–8
Fetal outcome in term frank breech primipara delivered vaginally and by elective cesarean section. Wisestanakorn W, et al. J Med Assoc Thai 1990 Feb;73 Suppl 1:47–51
Twin pregnancy: an appraisal of management options. Crosby WM. J Okla State Med Assoc 1989 Oct;82(10):516–27
Influence of presentation on neonatal outcome of vaginally delivered low birthweight infants. A matched pair analysis. Davidson S, et al. J Perinatol 1990 Mar;10(1):38–42
413 cases of abnormal fetal position corrected by auricular plaster therapy. Qin GF, et al. J Tradit Chin Med 1989 Dec;9(4):235–7
A difficult delivery [see comments] Lancet 1990 Feb 17; 335(8686):385–6 (23 ref.) Comment in: Lancet 1990 Apr 7;335(8693):861.
The second twin [editorial] Lancet 1990 Aug 4;336(8710):284
Methods of delivery and resuscitation of very-low-birthweight infants in Victoria: 1982–1985. Lumley J, et al. Med J Aust 1990 Feb 5;152(3):143–6
Gastroschisis and omphalocele: does either antenatal diagnosis or route of delivery make a difference in perinatal outcome? Sipes SL, et al. Obstet Gynecol 1990 Aug; 76(2):195–9
Cyanotic maternal heart disease in pregnancy. Patton DE, et al. Obstet Gynecol Surv 1990 Sep;45(9):594–600
Optimal route of delivery for meningomyelocele. Sakala EP, et al. Obstet Gynecol Surv 1990 Apr;45(4):209–12 (8 ref.)
[Obstetrical surgical interventions in teenagers younger than 16 years of age] Goranov M, et al. Akush Ginekol (Sofiia) 1989;28(5):14–8 (Eng. Abstr.) (Bul)
[Response to the Ostrava obstetricians] Pospíšil J. Cesk Gynekol 1990 May;55(4):296–7 (Cze)
[Delivery in the scarred uterus. Apropos of 606 cases in 62,193 deliveries] Picaud A, et al. Rev Fr Gynecol Obstet 1990 Jun;85(6):387–92 (Eng. Abstr.) (Fre)
[Changes in approach to the delivery of dysmature infants following the introduction of Doppler flowmetry] Doszpod J, et al. Orv Hetil 1989 Oct 22;130(43):2295–7 (Eng. Abstr.) (Hun)
[Effect of intensive cardiotocographic monitoring on the time and method of completion of labor] Marković A, et al. Ginekol Pol 1989 Jan;60(1):12–20 (Eng. Abstr.) (Pol)
[The management of physiological labor] Savel'eva GM, et al. Akush Ginekol (Mosk) 1989 Nov;(11):71–6 (Rus)
[The effect of pH values and the method of delivery on intrapartum injuries in the neonate] Aleksić S, et al. Med Pregl 1989;42(3–4):163–5 (Eng. Abstr.) (Scr)

STATISTICS & NUMERICAL DATA

The course of delivery after previous cesarean section. Roumen FJ, et al. Eur J Obstet Gynecol Reprod Biol 1990 Jan–Feb;34(1–2):15–20
A retrospective study of all low birth-weight preterm babies born in BMH Rinteln between 1980–1989. Crowther ME. J R Army Med Corps 1990 Feb;136(1):43–9

TRENDS

Freestanding birth centers: safe, sensitive care [letter; comment] Ernst EK. Am J Public Health 1990 Mar; 80(3):352 Comment on: Am J Public Health 1989 Aug;79(8):1038–9.

UTILIZATION

International differences in the use of obstetric interventions. Notzon FC. JAMA 1990 Jun 27;263(24):3286–91

VETERINARY

Dystocia in the heifer [letter] Ewing JM. Vet Rec 1968 Aug 10;83(6):157

DELIVERY, ABDOMINAL see **CESAREAN SECTION**

DELIVERY OF DENTAL CARE see **DELIVERY OF HEALTH CARE**

DELIVERY OF HEALTH CARE

see related
CONSUMER PARTICIPATION

Targeting AIDS through information, education, and communications programs: implications for Africa and the Caribbean. Ward WB. AIDS Educ Prev 1989 Summer; 1(2):154–62
Responsibility for patient care: where does the buck stop? DiNubile MJ. Am J Med 1990 Apr;88(4):405–6
Assessment of dental care delivery to institutionalised aged in Singapore. Soh G, et al. Ann Acad Med Singapore 1989 Sep;18(5):519–22
The ideals of optimal care for women at mid-life. Bachmann GA. Ann N Y Acad Sci 1990;592:253–6; discussion 257–62
Patient predicament and clinical service. A system. Hansell N. Arch Gen Psychiatry 1967 Aug;17(2):204–10
Attitudes. Physicians, AIDS, and the American public [editorial; comment] Lee BJ 3d. Arch Intern Med 1990 Jan; 150(1):29–30 Comment on: Arch Intern Med 1990 Jan;150(1):50–3.
AMA looks toward a cure for US health care. Foreman J. Arch Ophthalmol 1989 Oct;107(10):1433
The imperative for change in health care delivery. An ophthalmologist's viewpoint. Paton D. Arch Ophthalmol 1990 Jul;108(7):937–8
The interaction between ophthalmology and society. History suggests strategy [see comments] Sacks JG. Arch Ophthalmol 1989 Dec;107(12):1740–2 Comment in: Arch Ophthalmol 1990 May;108(5):633. Comment in: Arch Ophthalmol 1990 May;108(5):633–4. Comment in: Arch Ophthalmol 1990 May;108(5):634.
Our international responsibility [editorial] Philips BJ. ASHA 1990 May;32(5):51
Intervention rates in spontaneous term labour in low risk nulliparous women. Cary AJ. Aust N Z J Obstet Gynaecol 1990 Feb;30(1):46–51
Corinth and Olympia [editorial] Br J Sports Med 1989 Jun; 23(2):67–8
The People's Republic of China and its health care system. Rosenthal MM. Cah Sociol Demogr Med 1990 Jan–Mar; 30(1):47–73
Medicine in the Yukon: "this is the frontier and people need me". Koba H. Can Med Assoc J 1990 May 15; 142(10):1109–11
Medical care is not fully portable for Quebecers [letter] Shaver CS. Can Med Assoc J 1990 Mar 15;142(6):516
Health care system serves Canada well, Alberta president tells American MDs. Sullivan P. Can Med Assoc J 1990 Feb 1;142(3):237–8
Medical practice: establishing your own future. Wolkstein I. Clin Neurosurg 1990;36:81–91
Opportunity fleeting; judgment difficult. Massey RU. Conn Med 1989 Nov;53(11):679
Health care provider and contraceptive care setting: the relationship to contraceptive behavior. Harvey SM, et al. Contraception 1989 Dec;40(6):715–29
Breast-feeding in a Danish alternative birth center compared with the obstetrical ward. Skibsted L, et al.

Early Hum Dev 1990 Feb;21(2):115–24
Good and proper care: reflections on the calling of family practice. Loxterkamp D. **Fam Med** 1990 Jan–Feb; 22(1):64–6
Health care [editorial] Brown M.
Health Care Manage Rev 1989 Fall;14(4):5–7
Health in India, situation and trends. Dutta M, et al.
Indian J Public Health 1988 Jul–Sep;32(3):122–6
International collaborative studies in oral health: a practical illustration of WHO research policy. Leclercq MH, et al.
Int Dent J 1990 Jun;40(3):167–70
Practice profile time survey and government policy. Tsui MF. **Int Dent J** 1989 Dec;39(4):269–73
Development of rapid epidemiologic assessment methods to evaluate health status and delivery of health services. Smith GS. **Int J Epidemiol** 1989;18(4 Suppl 2):S2–15 (104 ref.)
Systems development for ophthalmic care in appropriate nations: an American approach. Paton D.
Int Ophthalmol Clin 1990 Winter;30(1):61–3
AIDS in our children—who cares for them? Oleske JM.
Issues Law Med 1990 Spring;5(4):437–50
Knowledge and attitudes of health professionals toward adolescent health care. Blum RW, et al.
J Adolesc Health Care 1990 Jul;11(4):289–94
Let's play health care. Wuensch RW. **J Am Optom Assoc** 1989 Nov;60(11):810–4
DO involvement key to our profession's future [letter] Roulier R. **J Am Osteopath Assoc** 1989 Oct;89(10):1245–6
Delivery of health care to the indigent [letter] Barice EJ.
J Fla Med Assoc 1990 May;77(5):508–9
Demythologizing the American health care process. Caldwell JR. **J Fla Med Assoc** 1989 Dec;76(12):1043–4
Socialized medicine and public delusions. Havre DC.
J Fla Med Assoc 1990 Jun;77(6):638
Epidemiology, ecolacy, and patient care [editorial] Lipkin M. **J Gen Intern Med** 1989 Sep–Oct;4(5):463
The development of hypertension care in Finland from 1982 to 1987. Salomaa V, et al. **J Hypertens** 1989 Oct; 7(10):837–44
Physicians and health care business. Monnig WB.
J Ky Med Assoc 1990 Mar;88(3):109–10
Prioritizing health care. Noonan JD. **J Ky Med Assoc** 1990 Feb;88(2):55–6
Decade of decision. Rue NB. **J Ky Med Assoc** 1989 Oct; 87(10):497–8
Our real power—a myth. Hill JE.
J Miss State Med Assoc 1989 Aug;30(8):262, 279
Health reforms and the black community. Hester RD, et al.
J Natl Med Assoc 1990 Apr;82(4):291–3
Comments from the National Medical Association concerning a "white paper" on proposed strategies for fulfilling primary care manpower needs. Pinn-Wiggins VW. **J Natl Med Assoc** 1990 Apr;82(4):245–8
Negotiating care [published erratum appears in J Nurs Adm 1990 Jul–Aug;20(7–8):11] Wolf GA. **J Nurs Adm** 1990 Mar; 20(3):1–2
Do referral rates vary widely between practices and does supply of services affect demand? A study in Milton Keynes and the Oxford region. Noone A, et al.
J R Coll Gen Pract 1989 Oct;39(327):404–7
Obstetrics and obstetrical care providers in rural east Tennessee. Clapp MA. **J Tenn Med Assoc** 1990 Apr; 83(4):174–6
Medical care in the nursing home [see comments] Ouslander JG. **JAMA** 1989 Nov 10;262(18):2582–90 (78 ref.) Comment in: **JAMA** 1990 Jun 13;263(22):3023–4.
Telecommunication discussion groups for health services and medical research [see comments] Parsons DF. **Lancet** 1989 Nov 4;2(8671):1087–9 Comment in: Lancet 1989 Dec 16;2(8677):1456.
Eritrean medicine [editorial] Keneally T. **Med J Aust** 1990 Sep 3;153(5):241–2
Discrimination in the provision of health care in relation to persons with infection with the human immunodeficiency virus [letter] Tillett G, et al. **Med J Aust** 1990 Feb 19; 152(4):220
Health care in Nicaragua. Britten S. **Med War** 1989 Jul–Sep; 5(3):132–6
Report from West Germany [editorial] Felts JH.
N C Med J 1981 Oct;42(10):725–6
New York State's health care system. Selected major problems and recommended solutions.
N Y State J Med 1989 Nov;89(11):606–11
The rural health care challenge in New York State. Rosenthal TC. **N Y State J Med** 1989 Nov;89(11):603–5
Overview of mental health services research. McFarland BH. **New Dir Ment Health Serv** 1989 Winter;(44):55–63 (20 ref.)
Accessing intravenous drug users via the health care system. Evans PE. **NIDA Res Monogr** 1990;93:277–87
The case for interdisciplinary collaboration. Mariano C.
Nurs Outlook 1989 Nov–Dec;37(6):285–8 (19 ref.)
Uncovering hidden caring. Roberts JE. **Nurs Outlook** 1990 Mar–Apr;38(2):67–9
U.S. embargo on health care literature [letter] Swanson J.
Nurs Outlook 1990 Mar–Apr;38(2):58–9
The moral failure of the patriarchy. Watson J.
Nurs Outlook 1990 Mar–Apr;38(2):62–6
Measuring accomplishments. A review of two OSMA committees. Homeless Task Force 1990. Daniels JS.
Ohio Med 1990 May;86(5):389, 392
Against Canadian health-care [letter] Smith PP.
Ohio Med 1990 Mar;86(3):165
Canadian vs United States medicine [letter] Klein SW.
Pharos 1990 Summer;53(3):48
Health care restrictions on the elderly [letter; comment] Preston JB. **Pharos** 1989 Fall;52(4):30 Comment on: Pharos 1989 Summer;52(3):2–7.
Greed in healthcare [letter; comment] **Postgrad Med** 1989 Nov 1;86(6):29 Comment on: Postgrad Med 1989 Aug;86(2):21, 24–5.
Healthcare crisis. As I see it. What would you do to fix the healthcare system? **Postgrad Med** 1990 May 1;87(6):21–3
The impact of HIV on health care delivery in haemophilia. Rickard KA. **Prog Clin Biol Res** 1990;324:101–11 (15 ref.)
Levels of explanation and cautions for a critical clinical anthropology. Press I. **Soc Sci Med** 1990;30(9):1001–9
Pediatric AIDS: impact on health systems. Mangos JA, et al. **Tex Med** 1990 Mar;86(3):58–61
Doctor calls for coordinated rural health care services [letter] Webb CR Jr. **Tex Med** 1989 Nov;85(11):7
Ethics in health care and medical technologies. Taylor C.
Theor Med 1990 Jun;11(2):111–24
Your responses pour in. Latos DL. **W V Med J** 1990 Feb; 86(2):60
Foreign example [editorial] Ward SD. **W V Med J** 1990 Feb; 86(2):61
Is academic medicine providing the best patient care? Some personal observations [see comments] Beuf FG.
West J Med 1989 Oct;151(4):477–8 Comment in: West J Med 1990 Feb;152(2):185.
A higher duty [editorial] Watts MS. **West J Med** 1989 Dec; 151(6):657
Health care in Sarawak's jungles. Chen PC.
World Health Forum 1989;10(2):190–2
[Action program of the Czechoslovak Ministry of Health and Social Affairs] **Cas Lek Cesk** 1990 Jan 26;129(4):97–8 (Cze)
[News in Soviet health care. Observations from a working visit to Moscow] Beran J. **Cas Lek Cesk** 1990 Mar 23; 129(12):374 (Cze)
[The goals, types and criteria of health care] Holčík J.
Cas Lek Cesk 1990 Jan 5;129(1):1–6 (Eng. Abstr.) (Cze)
[Perspectives in the development of health care in Czechoslovakia] Záček A. **Cesk Zdrav** 1989 Aug; 37(8–9):335–41 (Eng. Abstr.) (Cze)
[Injuries caused by nuclear weapons—providing medical care] Dostál M.
Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl 1989;32(1):41–93 (Eng. Abstr.) (Cze)
[Aging in a foreign country, an underestimated problem (letter)] Molenaar JC. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1019 (Dut)
[Eurothemes. Looking at the same thing with different eyes] Spanjer M. **Ned Tijdschr Geneeskd** 1989 Sep 30; 133(39):1945–7 (Dut)
[Health in the USSR in the era of Perestroika] Garbe S, et al. **Cah Sociol Demogr Med** 1990 Jan–Mar;30(1):5–45 (Eng. Abstr.) (Fre)
[Scales for the analysis of health care provision] Picheral H. **Cah Sociol Demogr Med** 1990 Apr–Jun;30(2):155–76 (69 ref.) (Eng. Abstr.) (Fre)
[The International Red Cross Committee and traditional Khmer medicine] Hiegel JP. **Rev Med Suisse Romande** 1990 May;110(5):417–23 (Fre)
[Which system of health care to choose? (Apropos of an inquiry among Tunisian physicians] Ben Nefissa K, et al. **Tunis Med** 1989 Jun–Jul;67(6–7):427–32 (Eng. Abstr.) (Fre)
[North–South—a future, a common task. North–South dialog of the Austrian Rectors' Conference, sphere of action "Science and research", activity field "Human medicine". 1] Sixl W. **Geogr Med Suppl** 1989;5:31–87 (Ger)
[Work results of activity field 2 "Human medicine". Science and education for the development cooperation, 13 and 14 June 1988 in Vienna. 2] Sixl W, et al.
Geogr Med Suppl 1989;5:89–97 (Ger)
[Quality control and quality assurance in medicine] Berner Y, et al. **Harefuah** 1989 Oct;117(7–8):221–3 (Heb)
[Survey carried out by land of the intervention time for territorial health care] Tulli G, et al.
Minerva Anestesiol 1989 Sep;55(9):359–61 (Eng. Abstr.) (Ita)
[Therapeutic aid to the victims of the earthquake in Armenia (December, 1988)] Ivashkin VT, et al.
Klin Med (Mosk) 1990 Mar;68(3):44–50 (Rus)
[Health status and medical care of rural families in Mongolia] Mukhar Ts, et al. **Sov Zdravookhr** 1990;(4):62–4 (Rus)
[Justice in the delivery of health care (comment)] Drane JF.
Bol Of Sanit Panam 1990 May–Jun;108(5–6):586–98 Comment on: Bol Of Sanit Panam 1990 May–Jun;108(5–6):570–85. (Spa)
[Consensus conferences: a form of rationalizing medical intervention (editorial)] Honorato J. **Rev Clin Esp** 1990 Mar;186(5):199–200 (Spa)
[Spain's health cooperation in Africa] Gijón García L, et al. **Rev Sanid Hig Publica (Madr)** 1989 Mar–Apr; 63(3–4):9–14 (Spa)
[International dimension of quality evaluation and assurance] Donabedian A. **Salud Publica Mex** 1990 Mar–Apr; 32(2):113–7 (Eng. Abstr.) (Spa)
[Effects of the health care model of the Mexican Social Security Institute-COPLAMAR program on the health status of the underprivileged rural population of Mexico] Flores Alvarado A, et al. **Salud Publica Mex** 1989 Nov–Dec;31(6):745–56 (Eng. Abstr.) (Spa)
[Health care quality assurance in the Netherlands] Reerink E. **Salud Publica Mex** 1990 Mar–Apr;32(2):118–30 (Eng. Abstr.) (Spa)

ECONOMICS

For whom the bell tolls. Conner SL. **Ala Med** 1990 Apr; 59(10):4, 6
Comparison of Alabama Behavioral Risk Factor Surveys. Galvin M, et al. **Ala Med** 1989 Dec;59(6):15–7, 20–1
Hopeful signs. Taylor B. **Ala Med** 1989 Dec;59(6):7–8
Variations in patient care to identify preferred management [editorial] Sommer A. **Am J Ophthalmol** 1990 Jan 15; 109(1):89–91
Economic and social determinants of prevention in health care provision in the United States. Fielding JE.
Am J Prev Med 1988;4(4 Suppl):158–70; discussion 171–5 (50 ref.)
Cost of VA medical care [letter] Derwinski EJ.
Ann Intern Med 1990 Oct 15;113(8):639–40
Philosophy 1. Lindesmith GG. **Ann Thorac Surg** 1990 Jan; 49(1):7–13
We cannot afford to ignore economics in nursing curricula. Greenfield JM. **AORN J** 1990 May;51(5):1384–6
Expensive health care. A solvable problem? Oswalt CE.
Arch Intern Med 1990 Jun;150(6):1165–6
Eye care not too costly [letter; comment] Downing JJ.
Arch Ophthalmol 1990 Jul;108(7):917 Comment on: Arch Ophthalmol 1990 Feb;108(2):192–4.
Socioeconomic changes impact medical practice [letter; comment] Frenkel M. **Arch Ophthalmol** 1990 May; 108(5):633–4 Comment on: Arch Ophthalmol 1989 Dec;107(12):1740–2.
Ophthalmic health care [letter; comment] Hawkins WR.
Arch Ophthalmol 1990 Jul;108(7):917 Comment on: Arch Ophthalmol 1990 Feb;108(2):192–4.
Outcomeology [editorial] Zimmerman TJ.
Arch Ophthalmol 1990 Mar;108(3):341–3
Somehow we have to stop the train wreck. Part 1 [editorial] Bailey BJ. **Arch Otolaryngol Head Neck Surg** 1990 Jun; 116(6):669–70
Panel discussion. I: Cost effectiveness of drug development and health economics. Brody BA, et al.
Arzneimittelforschung 1989 Aug;39(8A):989–95
Federal efforts at reducing health care costs: the effect on technology [interview by Michael J. Miller] Geigle R.
Biomed Instrum Technol 1990 May–Jun;24(3):166–70
Impact of changing health care economics on Michigan hospital libraries: report of a survey. Stevens SR.
Bull Med Libr Assoc 1990 Apr;78(2):140–5
Toward a health care financing strategy for the nation.
Bull N Y Acad Med 1990 Jul–Aug;66(4):281–375
Toward a health care financing strategy for the nation. Report of the National Health Policy Seminar.
Bull N Y Acad Med 1990 Jul–Aug;66(4):284–92
Access to the American health care system: consequences for cancer control. Lerner M. **CA** 1989 Sep–Oct; 39(5):289–95
Ethical and economic aspects of noncompliance and overtreatment [see comments] Burgess MM.
Can Med Assoc J 1989 Oct 15;141(8):777–80 Comment in: Can Med Assoc J 1990 Feb 1;142(3):204–5.
HIV antibody screening among immigrants: a cost–benefit analysis. Zowall H, et al. **Can Med Assoc J** 1990 Jul 15; 143(2):101–7
Economic concerns in the changing health care delivery system. Baird SB, et al. **Cancer** 1990 Feb 1;65(3 Suppl):766–9
Impact of new technologies on health-care costs and on the nation's "health". Massaro TA. **Clin Chem** 1990 Aug;36(8 Pt 2):1612–6
A time of transition. Beck RS. **Conn Med** 1990 May;54(5):289
Medical care costs: no easy answer [editorial] Norbeck TB.
Conn Med 1989 Sep;53(9):547
Medical care for the un(der)insured [editorial] Martz EW.
Del Med J 1990 Jun;62(6):1076–7
"...Let us do it now, for we shall not pass this way again..." [editorial] Pollner P. **Del Med J** 1990 Jun;62(6):1071–2, 1075
Informed opinion: any clue? [editorial] LeTouzé D.
Dimens Health Serv 1989 Sep;66(6):5–6, 40 (Eng, Fre)
Public-sector health spending may aid competitiveness [letter] Navarro V. **Health Aff (Millwood)** 1990 Summer; 9(2):235–6
Health costs do reduce U.S. competitiveness [letter] Rasell ME. **Health Aff (Millwood)** 1990 Summer;9(2):234–5
The chief scientist reports ... using economic appraisal in health services research. Ludbrook A.
Health Bull (Edinb) 1990 Mar;48(2):81–90
An application of the pure-play technique [letter; comment] Domonkos JA, et al. **Health Care Manage Rev** 1989 Fall; 14(4):9–10 Comment on: Health Care Manage Rev 1988 Spring;13(2):43–51.
Competitive reform and nonprice competition: implications for the hospital industry. Higgins CW.
Health Care Manage Rev 1989 Fall;14(4):57–66 (77 ref.)
Use marketing to reduce malpractice costs in health care. MacStravic RS. **Health Care Manage Rev** 1989 Fall; 14(4):51–6
Decreasing medical malpractice: toward an organizational systems approach. Ziegenfuss JT Jr, et al.
Health Care Manage Rev 1989 Fall;14(4):67–75

Competition: an unsympathetic obituary. Sabatino FG. **Hospitals** 1990 Jan 5;64(1):10

The politics of Alzheimer's disease: a case study in apocalyptic demography. Robertson A. **Int J Health Serv** 1990;20(3):429–42

IFMC case notes. Outlier review. Gilson J. **Iowa Med** 1990 Jun;80(6):309

Thoughts on expenditure targets. Rodawig DF. **Iowa Med** 1989 Aug;79(8):367

Restraining costs, improving quality. Sullivan L. **Iowa Med** 1990 Jan;80(1):8–9

The politics of American health care. Smith JP. **J Adv Nurs** 1990 Apr;15(4):487–97

President's page: the Midas touch. Wellman HS, et al. **J Am Diet Assoc** 1990 Sep;90(9):1278–81

Impact of urinary incontinence on health-care costs. Hu TW. **J Am Geriatr Soc** 1990 Mar;38(3):292–5

Medical prospectors [letter] Brouillette JN. **J Fla Med Assoc** 1989 May;76(5):443

Physician uncompensated care. Caldwell JR. **J Fla Med Assoc** 1990 May;77(5):543–4

Doctors' dilemma [editorial] Farmer HF Jr. **J Fla Med Assoc** 1989 Jun;76(6):504–5

Everything is not enough [editorial] Farmer HF Jr. **J Fla Med Assoc** 1990 May;77(5):504–5

Confused and befuddled am I. Glatzer RL. **J Fla Med Assoc** 1990 May;77(5):553–4

Practice guidelines to reduce testing in the hospital. Wachtel TJ, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):335–41

American political culture and the search for lessons from abroad. Morone JA. **J Health Polit Policy Law** 1990 Spring; 15(1):129–43

Epidemiological and cost implications of antihypertensive treatment for the prevention of cardiovascular disease. Grimm RH Jr. **J Hum Hypertens** 1989 Dec;3 Suppl 2:55–60; discussion 60–1 (22 ref.)

The effect of mandatory Medicare assignment on health care. Ross SL. **J Leg Med** 1989 Sep;10(3):529–44

Applying brakes to the runaway American health care system [letter] Davies NE, et al. **J Med Assoc Ga** 1990 Mar; 79(3):126

An economic analysis of the economic burden of cigarette smoking in Georgia [comment] [see comments] Lee DR. **J Med Assoc Ga** 1990 Mar;79(3):161–4 Comment on: J Med Assoc Ga 1989 Sep;78(9):601–5. Comment in: J Med Assoc Ga 1990 May;79(5):273.

The effects of care and economics on nursing practice. Nyberg J. **J Nurs Adm** 1990 May;20(5):13–8

Economic issues and nursing scholarship. Williams CA. **J Prof Nurs** 1989 Nov–Dec;5(6):301

The AMA proposal to improve access to affordable, quality health care. **J Tenn Med Assoc** 1990 Aug;83(8):412–3

The detection of depression and the financing of medical care [letter; comment] **JAMA** 1990 May 2;263(17):2298–300 Comment on: JAMA 1989 Dec 15;262(23):3298–302.

Clinical decision making: from theory to practice. Connecting value and costs. Whom do we ask, and what do we ask them? Eddy DM. **JAMA** 1990 Oct 3;264(13):1737–9

Dreams, dollars, and deeds. The sacred fire and health access America. Tupper CJ. **JAMA** 1990 Sep 5;264(9):1150–2

Urban violence: a health care issue. Uva JL. **JAMA** 1990 Jan 5;263(1):135, 139

Health access America. **Kans Med** 1990 Apr;91(4):92, 95

Goals and accomplishments of the AMA. Nelson AR. **Kans Med** 1990 Apr;91(4):95–8

Privatisation of care in China [letter; comment] Hillier S, et al. **Lancet** 1990 Feb 17;335(8686):414 Comment on: Lancet 1989 Dec 16;2(8677):1456–7.

Economic considerations in decisions to treat. Marsh FH. **Leg Med** 1989;:221–37 (54 ref.)

Reynaldo L. Lee–Llacer MD 1990–1991, Med Chi President. Newman B. **Md Med J** 1990 May;39(5):453–7

The grass is not necessarily Eire on the other side. Best J. **Med J Aust** 1989 Sep 18;151(6):352–4

What every doctor should know about economics. Part 1. The benefits of costing. Hall J, et al. **Med J Aust** 1990 Jan 1;152(1):29–31

The metaphor expert testifies on health care [editorial] Reece RL. **Minn Med** 1990 May;73(5):5–6

Just compensation. Singleton MA. **Mo Med** 1990 Jan; 87(1):13–4

Health care reform—why so slow? Ginzberg E. **N Engl J Med** 1990 May 17;322(20):1464–6

Ethics and accountability [letter] de Lacey DM. **N Z Med J** 1990 Jul 11;103(893):326

Financing health care [letter; comment] Nieves WL. **Neurology** 1989 Oct;39(10):1407 Comment on: Neurology 1989 May;39(5):719–24.

Medical care for Nicaraguan poor: making do with next to nothing [letter] Storlie F. **Nurse Pract** 1990 Apr;15(4):11

Health-care planners, physicians must cooperate to stem rising costs [editorial] Strasser AL. **Occup Health Saf** 1990 Mar;59(3):20

Health-care cost hikes: who's responsible? Annis ER. **Ohio Med** 1990 Jan;86(1):21–5

Can we monitor the monitors of medical costs? Cooper W, et al. **Pa Med** 1990 May;93(5):28–9

No ducking the future. Danyo JJ. **Pa Med** 1990 Mar;93(3):10

Zero option time. Danyo JJ. **Pa Med** 1990 May;93(5):6

Healthcare crisis. As I see it. What would you do to fix our critically ill healthcare system? **Postgrad Med** 1990 Aug; 88(2):25

Healthcare crisis. As I see it. What would you do to close the checkbook on runaway healthcare costs? **Postgrad Med** 1990 Jun;87(8):45–6,48

Greed in healthcare [letter; comment] **Postgrad Med** 1989 Oct;86(5):25, 27 Comment on: Postgrad Med 1989 Aug;86(2):21, 24–5.

Healthcare crisis. As I see it. What would you do to close the checkbook on runaway healthcare costs? **Postgrad Med** 1990 Sep 1;88(3):19

Greed in healthcare [letter; comment] **Postgrad Med** 1989 Nov 1;86(6):29 Comment on: Postgrad Med 1989 Aug;86(2):21, 24–5.

Healthcare crisis. As I see it. What would you do to close the checkbook on runaway healthcare costs? **Postgrad Med** 1990 Sep 15;88(4):38–40

Our healthcare system is broke—and you and I are going to fix it! [editorial] Griffin GC. **Postgrad Med** 1990 Feb 1;87(2):13–4, 16

Cutting healthcare costs. Can physicians make a difference? Hansen KK, et al. **Postgrad Med** 1989 Oct;86(5):91–3, 96, 98

Paying for health services: a public health view. Melzer D. **Public Health** 1989 Sep;103(5):363–7

The private health sector in South Africa—current trends and future developments. Broomberg J, et al. **S Afr Med J** 1990 Aug 4;78(3):139–42; discussion 142–3

Rationing health care: the choice before us [see comments] Aaron H, et al. **Science** 1990 Jan 26;247(4941):418–22 Comment in: Science 1990 May 11;248(4956):661–5.

Toward a national health care policy in the United States. Auerbach PS. **South Med J** 1989 Nov;82(11):1389–96

Professional organization of physicians: balancing the cost-quality equation. An introduction. Dyer AR. **Theor Med** 1989 Sep;10(3):185–93

Quality of care and cost containment in the U.S. and U.K. Jennett B. **Theor Med** 1989 Sep;10(3):207–15

Cost containment forces physicians into ethical and quality of care compromises. Justin RG. **Theor Med** 1989 Sep; 10(3):231–8

Greetings from the American Medical Association. Dawson JH. **Trans Assoc Life Insur Med Dir Am** 1990;73:24–5

Health care—where are the problems and where are the solutions? [editorial] Watts MS. **West J Med** 1990 Jan; 152(1):68–9

Our challenge is great [editorial] Treacy WL. **Wis Med J** 1989 Sep;88(9):4

[A review of the types of economic analyses of the health economy] Pedersen KM, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):144–8 (Eng. Abstr.) **(Dan)**

[Nomenclature and medical decision trees, a solution in the discussion about economics and quality in health care?] Raes V. **Arch Belg** 1988;46(7–8):305–17 (Eng. Abstr.) **(Dut)**

[Eurothemes. Payment according to labor: incentives and stimulating development] Spanjer JM. **Ned Tijdschr Geneeskd** 1989 Nov 4;133(44):2190–2 **(Dut)**

[Hospital financing and information on hospital clients] Kleiber C. **Soz Praventivmed** 1989;34(4):175–8 (Eng. Abstr.) **(Fre)**

[Paid medical services for the population of the USSR] Korchagin VP, et al. **Sov Zdravookhr** 1989;(10):17–22 (Eng. Abstr.) **(Rus)**

[What is a just system of health care? Principles for the allocation of scarce resources (see comments)] Gracia D. **Bol Of Sanit Panam** 1990 May–Jun;108(5–6):570–85 (28 ref.) Comment in: Bol Of Sanit Panam 1990 May–Jun;108(5–6):586–98. Comment in: Bol Of Sanit Panam 1990 May–Jun;108(5–6):599–601. **(Spa)**

[Dilemmas of health financing] Herrera Zárate M, et al. **Salud Publica Mex** 1989 Nov–Dec;31(6):800–10 (38 ref.) (Eng. Abstr.) **(Spa)**

HISTORY

The evolution of American health policy. Kissick WL. **Trans Stud Coll Physicians Phila** 1989 Sep;11(3):187–200

[Medical care in Upper Wallis yesterday and today. I. The status at the beginning of the 20th century] Feitknecht–Gallati S. **Schweiz Rundsch Med Prax** 1989 Oct 17;78(42):1149–54 (Eng. Abstr.) **(Ger)**

[Development in medicine in the Werdenberg–Sargans region] Gassner–Bachmann M. **Schweiz Rundsch Med Prax** 1990 Feb 20;79(8):193–201 (Eng. Abstr.) **(Ger)**

[100 years of medical practice in the mountain region of Ticino. I. Development of a health policy following the foundation of the canton] Moccetti A. **Schweiz Rundsch Med Prax** 1989 Oct 17;78(42):1166–9 (Eng. Abstr.) **(Ita)**

[100 years of medical practice in the mountain region of Ticino. II. Mountain physician for nearly 40 years] Moccetti A. **Schweiz Rundsch Med Prax** 1989 Oct 17; 78(42):1170–4 (Eng. Abstr.) **(Ita)**

[Medicine of yore in the Moesano] Stanga Z. **Schweiz Rundsch Med Prax** 1990 Feb 20;79(8):207–14 (Eng. Abstr.) **(Ita)**

[The concept of good medical care, 1933. By Lee RI and Jones LW [classical article] Lee RI, et al. **Salud Publica Mex** 1990 Mar–Apr;32(2):245–7 **(Spa)**

LEGISLATION & JURISPRUDENCE

Rural America. Unique opportunities for health care delivery and health services research. DeLeon PH, et al. **Am Psychol** 1989 Oct;44(10):1298–306

Legal concerns of the next decade. Murphy EK. **AORN J** 1990 Jan;51(1):258, 260–1

Predicting the health care issues of the future. Schlepp S. **AORN J** 1990 Jan;51(1):249–50, 252, 254–6

Unique problems encountered in the delivery of mental health services to a Native Alaskan population. Hite VL. **Arctic Med Res** 1988;47 Suppl 1:581–4

The Medical reform Group has a purpose [letter] Woodside D, et al. **Can Med Assoc J** 1990 Sep 1;143(5):368–9

Managing mental health services: some comments for the overdue debate in psychology. Bloom BL. **Community Ment Health J** 1990 Feb;26(1):107–24

Treating a Jehovah's Witness adult: beneficence or respect for autonomy? Healey JM. **Conn Med** 1990 May;54(5):293

Getting Congress's act together on health issues [editorial] Butler RN. **Geriatrics** 1990 Sep;45(9):26–7

The health care electoral paradox [letter; comment] Blumenthal D. **Health Aff (Millwood)** 1989 Winter; 8(4):205–6 Comment on: Health Aff (Millwood) 1989 Fall;8(3):6–15.

A message and a challenge. Gingrich N. **J Med Assoc Ga** 1990 May;79(5):305–11

Congress listens to Georgia physicians. Taylor C. **J Med Assoc Ga** 1990 May;79(5):299–303

Black health care in America: a political perspective. Rice MF, et al. **J Natl Med Assoc** 1990 Jun;82(6):429–37

The Disability Services and Guardianship Act 1987 [letter] Beran RG. **Med J Aust** 1989 Dec 4–18;151(11–12):722

A slow weekend in Beverly Hills. Egan P. **Med J Aust** 1989 Oct 16;151(8):458, 461

The integration of traditional medicine into the Nigerian health care delivery system: legal implications and complications. Ajai O. **Med Law** 1990;9(1):685–99

Environmental health. Physicians must get involved. **Mich Med** 1990 Jul;89(7):14–24

A health care proposal: universal access with fiscal responsibility. Tuteur PG. **Mo Med** 1989 Dec;86(12):787–9

The race for governor. Courter J, et al. **N J Med** 1989 Oct; 86(10):769–70

Legislature focuses on healthcare issues. Legislative update, 1989. OSMA Department of Legislation. **Ohio Med** 1989 Dec;85(12):952–6, 959, 961–2

H.B. No. 24: a window of opportunity. Marshall WJ. **Ohio Med** 1990 Jan;86(1):7–8

The durable power of attorney for health care: an important ingredient of sound health care. Beiser EN. **R I Med J** 1990 Mar;73(3):127–9

New legislation affecting procedures for health care consent. Gerdes DA. **S D J Med** 1990 Apr;43(4):23–7

Just health care (II): Is equality too much? Fleck LM. **Theor Med** 1989 Dec;10(4):301–10

Collision course [editorial] Berrey BH. **Va Med** 1990 Jun; 117(6):266

White Paper, SB-576. Latos DL. **W V Med J** 1990 Mar; 86(3):108

'Take one, take all' and the Omnibus Health Care Act: significant provisions in S.B.–576 rules. Simpson MA. **W V Med J** 1990 Apr;86(4):156–61

The White Paper [editorial] Ward SD. **W V Med J** 1990 Mar;86(3):109

[Investing in health care with Dekker as a guide] Boer EJ. **Ned Tijdschr Geneeskd** 1989 Nov 18;133(46):2296–300 **(Dut)**

[EC-legislation and health care; various relevant aspects] Roscam Abbing HD. **Ned Tijdschr Geneeskd** 1990 Mar 17; 134(11):544–8 **(Dut)**

[Illegal practice of medical care] Filipp N, et al. **Off Gesundheitswes** 1990 Jan;52(1):22–6 (Eng. Abstr.) **(Ger)**

MANPOWER

National health insurance: if not now, when? [editorial] Henderson VA. **Public Health Nurs** 1990 Jun;7(2):59

METHODS

Health care in the 1990s: rationing or rationalization? Tauke T. **Iowa Med** 1990 Jan;80(1):10–1

Group discussions with the health care team—a method of improving care of hypertension in general practice. Adorian D, et al. **J Hum Hypertens** 1990 Jun;4(3):265–8

Changing traditional medicine in rural Swaziland: the effects of the global system. Gort E. **Soc Sci Med** 1989; 29(9):1099–104 (22 ref.)

ORGANIZATION & ADMINISTRATION

Medical management and managing medical care: the dilemma of evaluating new technology. Bloom BS. **Am Heart J** 1990 Mar;119(3 Pt 2):754–60; discussion 760–1

Strategy for rheumatology: hospital versus community [editorial] Cooper C, et al. **Ann Rheum Dis** 1990 Jun; 49(6):343–4

The "travelling dentist" system of delivering dental care in Newfoundland and Labrador. Perceptions and observations. Messer JG. **Arctic Med Res** 1988;47 Suppl 1:568–70

International service delivery. A strategic management plan. Pressman DE, et al. **ASHA** 1990 May;32(5):48–9

What you need to know about the Spanish health system. Saturno PJ. **Aust Clin Rev** 1989;9(2):54–9

A pragmatist's nightmare [letter; comment] Mohanlal M. **Aust Fam Physician** 1990 Apr;19(4):596–7 Comment on: Aust Fam Physician 1989 Nov;18(11):1420–5.
Radiation oncology in Australia [editorial] Clunie GJ. **Aust N Z J Surg** 1990 Jan;60(1):1
Radiation oncology in Australia: the horns of a dilemma. Langlands AO. **Aust N Z J Surg** 1990 Jan;60(1):3–7
Child health surveillance [letter; comment] Thompson MK. **BMJ** 1990 Feb 24;300(6723):536 Comment on: BMJ 1989 Dec 2;299(6712):1352–3.
Public health medicine: two views of the new proposals [letter] **Br J Hosp Med** 1990 Jun;43(6):410
An index for assigning priority for cancer control within the health care delivery system in developing countries. Jayant K. **Bull World Health Organ** 1989;67(5):565–6
Evils of a two-tier system [letter; comment] Armstrong JD. **Can Med Assoc J** 1989 Nov 1;141(9):866–8 Comment on: Can Med Assoc J 1989 Aug 15;141(4):330, 332.
Medicine in South Africa (2) [editorial] Hanekom H. **Can Med Assoc J** 1990 Mar 1;142(5):478–9
Medicine in South Africa (1) [editorial] [see comments] Timmermans F. **Can Med Assoc J** 1990 Mar 1;142(5):477–8 Comment in: Can Med Assoc J 1990 Jun 1;142(11):1171–3, 1176–7.
Study of the Canadian health care system. AMA Board of Trustees. **Conn Med** 1990 Jan;54(1):27–30
Health in Kathmandu—spring 1989. Frelick RW. **Del Med J** 1990 Jun;62(6):1061–5
Sharpening the focus on health system reform. Jeppson DH. **Health Aff (Millwood)** 1990 Spring;9(1):114–6
Comparing U.S. and Korean health care [letter] Stano M. **Health Aff (Millwood)** 1990 Summer;9(2):237–8
Article contributors and topics in practice-oriented health care management journals from 1983 to 1987. Boissoneau R, et al. **Health Care Manage Rev** 1989 Fall;14(4):29–40
Interorganizational linkages in the health sector. Longest BB Jr. **Health Care Manage Rev** 1990 Winter;15(1):17–28
Privatization in French health politics: few projects and little outcome. Steffen M. **Int J Health Serv** 1989;19(4):651–61
Genetic diagnosis. Implications for medical practice. Blumenthal D, et al. **Int J Technol Assess Health Care** 1989; 5(4):579–600
Scott Memorial lecture: the challenge of change. Greenman PE. **J Am Osteopath Assoc** 1990 Aug;90(8):707–12
An action research in the delivery of primary health care through community based distribution. Rai RN, et al. **J Commun Dis** 1989 Dec;21(4):368–70
Is the time now? Conn J. **J Fla Med Assoc** 1989 May; 76(5):474–5
Information systems technology: barriers and challenges to implementation. Barry CT, et al. **J Nurs Adm** 1990 Feb; 20(2):40–2
Healthcare reform. Boston CM. **J Nurs Adm** 1990 Jul–Aug; 20(7–8):8–9
The delivery of health care alternatives: discussion paper. Aldridge D. **J R Soc Med** 1990 Mar;83(3):179–82
Tennessee Medical Home Project. Roberts F, et al. **J Tenn Med Assoc** 1990 Aug;83(8):406–7
Health management fellowships offered. **JAMA** 1990 May 23–30;263(20):2712
Medical care at ultraendurance triathlons. Laird RH. **Med Sci Sports Exerc** 1989 Oct;21(5 Suppl):S222–5
The European challenge in health information systems [editorial] Roger France FH. **Methods Inf Med** 1990 Mar; 29(2):81–3
Reforming the health care system [editorial; comment] Relman AS. **N Engl J Med** 1990 Oct 4;323(14):991–2 Comment on: N Engl J Med 1990 Oct 4;323(14):1005–7.
Criteria and guidelines for reforming the U.S. health care system. Shortell SM, et al. **N Engl J Med** 1990 Feb 15; 322(7):463–7
Is there a barefoot doctor in your future? [editorial] Cornellius CJ Jr. **Nebr Med J** 1990 Jun;75(6):127–9
American Academy of Pediatrics Committee on Adolescence: Health care for children and adolescents in detention centers, jails, lock-ups, and other court-sponsored residential facilities. **Pediatrics** 1989 Dec; 84(6):1118–20
What would you do to fix the healthcare system? Restructure a system that is skewed far to one side [letter] Henn TW. **Postgrad Med** 1990 May 15;87(7):24
A methodology for resource allocation in health care for South Africa. Part II. The British experience and its relevance to South Africa. McIntyre DE, et al. **S Afr Med J** 1990 May 5;77(9):453–5
Health care rationing [letter; comment] **Science** 1990 May 11;248(4956):661–5 Comment on: Science 1990 Jan 26;247(4941):418–22.
Oregon puts bold health plan on ice [news] Morell V. **Science** 1990 Aug 3;249(4968):468–71
How significant are the spatial configurations of health care systems? Eyles J. **Soc Sci Med** 1990;30(1):157–64
Neighbourhoods for health service administration. Kivell PT, et al. **Soc Sci Med** 1990;30(6):701–11
Cuba's health care policy: prevention and active community participation. Iatridis DS. **Soc Work** 1990 Jan;35(1):29–35
United States and Denmark: different approaches to health care and family planning. David HP, et al. **Stud Fam Plann** 1990 Jan–Feb;21(1):1–19
Medicine abroad: II. Glastnost in Moscow, Tbilisi, Baku. Hollowell JW. **Va Med** 1990 Feb;117:60–2
Survey of community health aides in Jamaica (1987–1988). Ennever O, et al. **West Indian Med J** 1990 Jun;39(2):100–8
The Canadian system [letter] **West J Med** 1989 Dec; 151(6):666–7
Getting the best value for money in health care. Banoub SN. **World Health Forum** 1989;10(2):258–64
Conflict in health systems. Deeny J. **World Health Forum** 1989;10(3–4):403–7
More power to the people. Reilly Q. **World Health Forum** 1989;10(3–4):473–6
New needs in health management. Schaefer M. **World Health Forum** 1989;10(3–4):438–47
[Specialization training in social medicine and the organization of health care] Elterlein E, et al. **Cesk Zdrav** 1989 Aug;37(8–9):391–402 (Eng. Abstr.) **(Cze)**
[Health care and social care cooperation?] Almind G. **Ugeskr Laeger** 1990 Aug 27;152(35):2472 **(Dan)**
[The spatial organization of health care in Flanders] De Laet H. **Arch Belg** 1989;47(1–4):128–32 (Eng. Abstr.) **(Dut)**
[Change ensured: status of the Dekker plan] Okma GH. **Ned Tijdschr Geneeskd** 1989 Nov 11;133(45):2242–8 **(Dut)**
[Health problems in an insular territory: the EVASANS in French Polynesia] Vigneron E, et al. **Cah Sociol Demogr Med** 1990 Apr–Jun;30(2):209–31 (Eng. Abstr.) **(Fre)**
[Advanced management techniques in the Israeli Healthcare System—summary of 14 projects] Noy S, et al. **Harefuah** 1990 Apr 15;118(8):499–501 **(Heb)**
[Urgent tasks of rural public health] Grigor'ev FG. **Sov Zdravookhr** 1990;(2):3–8 (Eng. Abstr.) **(Rus)**
[Preparation of public health services for carrying out programs of health delivery to the Kazakhstan population] Petrov PP, et al. **Sov Zdravookhr** 1990;(4):6–10 (Eng. Abstr.) **(Rus)**
[The health care and health status of the population of Sweden] Vartanian FE, et al. **Sov Zdravookhr** 1989; (7):47–51 **(Rus)**
[The work experience of a mobile office for rendering orthodontic care to the rural population of Tula Province] Zlotnikov SA, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb; 69(1):83–4 **(Rus)**
[Economic aspects of the reorganization of public health] Kishchenko LP, et al. **Vestn Akad Med Nauk SSSR** 1990; (4):3–9 **(Rus)**
[The organization of specialized medical care in central military sanatoria] Viazitskii PO, et al. **Voen Med Zh** 1990 Mar;(3):37–9 **(Rus)**
[Are function and structural changes necessary in the health service? (letter)] Bagar B. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jan;39(1):63–4 **(Slo)**
[Possibilities of improving the community health care system in cooperation with the hospitals/polyclinics] Sonderlich J. **Cesk Zdrav** 1990 Jun;38(5):232–5 (Eng. Abstr.) **(Slo)**
[New perspectives in the management of public health systems] López Casasnovas G. **Gac Sanit** 1989 Nov–Dec; 3(15):573–80 (18 ref.) (Eng. Abstr.) **(Spa)**

STANDARDS

The elderly and emergency medicine [editorial] Eliastam M. **Am J Emerg Med** 1990 May;8(3):270–1
More concerns [letter] **Am J Occup Ther** 1990 May; 44(5):470–2
Concerns about Louisiana criteria [letter] Rainforth B. **Am J Occup Ther** 1990 May;44(5):469–70
When is the quality of care good enough? [editorial] Schoenbaum SC. **Am J Public Health** 1990 Apr;80(4):403–4
AMA unveils plan to strengthen US health care system. Foreman J. **Arch Ophthalmol** 1990 May;108(5):649
Practice parameters designed to reduce unnecessary medical care. Foreman J. **Arch Ophthalmol** 1990 Jun;108(6):789
The ethics of health service delivery: a challenge to public health leadership. DeLuca DM. **Asia Pac J Public Health** 1989;3(3):195–9
Rural health care [letter] La Nauze J, et al. **Aust N Z J Ophthalmol** 1990 May;18(2):228
The AMA looks north with fear and loathing [letter; comment] [see comments] **Can Med Assoc J** 1990 Mar 15; 142(6):517, 520 Comment on: Can Med Assoc J 1990 Jan 1;142(1):50–1. Comment in: Can Med Assoc J 1990 May 15;142(10):1035–6.
The AMA looks north with fear and loathing [editorial] [see comments] Sullivan P. **Can Med Assoc J** 1990 Jan 1; 142(1):50–1 Comment in: Can Med Assoc J 1990 Mar 15;142(6):517, 520.
Alternatives to medicine [editorial; comment] [see comments] Thompson WG. **Can Med Assoc J** 1990 Jan 15;142(2):105–6 Comment on: Can Med Assoc J 1990 Jan 15;142(2):121–5. Comment in: Can Med Assoc J 1990 Jun 1;142(11):1192–4.
Quo vadis, doc? [editorial] Rafal HS. **Del Med J** 1989 Oct; 61(10):568–9
Use and evaluation of health services by women in a developing country: is age important? Keith PM, et al. **Gerontologist** 1990 Apr;30(2):262–8
Satisfaction with health systems in ten nations. Blendon RJ, et al. **Health Aff (Millwood)** 1990 Summer;9(2):185–92
Individual or social responsibility for premature death? Current controversies in the British debate about health. Townsend P. **Int J Health Serv** 1990;20(3):373–92
Widening inequalities of health in Britain: a rejoinder to Rudolph Klein. Townsend P. **Int J Health Serv** 1990; 20(3):363–72
Incarcerated adolescents. The need for the development of professional ethical standards for institutional health care providers. Jameson EJ. **J Adolesc Health Care** 1989 Nov; 10(6):490–9 (42 ref.)
Health care and the quality of life: a review. Holmes CA. **J Adv Nurs** 1989 Oct;14(10):833–9 (42 ref.)
The impact of fluctuating relationships with the Canadian health care system on family management of otitis media with effusion. Wuest J, et al. **J Adv Nurs** 1990 May; 15(5):556–63
Assurance of quality vision care in alternative health care delivery systems. Marshall EC. **J Am Optom Assoc** 1989 Nov;60(11):827–31 (11 ref.)
The Food and Drug Administration Commissioner [editorial] Somberg JC. **J Clin Pharmacol** 1990 Jul;30(7):577
Health care for blacks in the United States [letter] Smith EB. **J Natl Med Assoc** 1989 Dec;81(12):1204
The European view of the double degree [letter; comment] Hardman FG. **J Oral Maxillofac Surg** 1990 Apr;48(4):436–7 Comment on: J Oral Maxillofac Surg 1989 Jun;47(6):553.
Does a medical qualification provide public protection? James AE Jr, et al. **J R Soc Health** 1989 Dec;109(6):193–6
Caring for disabled people's health in Britain [editorial] **Lancet** 1990 Mar 10;335(8689):577–8
World Medical Association and South Africa [letter; comment] Dommisse J. **Lancet** 1989 Nov 25;2(8674):1280 Comment on: Lancet 1989 Oct 7;2(8667):866.
Health care for US veterans and others [letter] Hrushesky WJ. **Lancet** 1990 Jul 21;336(8708):182
Hong Kong's health system [letter; comment] Ng AS. **Lancet** 1990 May 19;335(8699):1222 Comment on: Lancet 1990 Feb 10;335(8685):321–2.
Standards and norms in small area analysis. Kazandjian VA, et al. **Md Med J** 1990 Mar;39(3):249–51
Physicians must be patient advocates first [letter] Newman SE. **Mich Med** 1990 Jul;89(7):7
The crisis of the health care nonsystem. Mitchell PH, et al. **Nurs Outlook** 1990 Sep–Oct;38(5):214–7
Humans are not linear systems: implications for medical care and public policy [editorial] Spaeth GL. **Ophthalmic Surg** 1990 May;21(5):309–10
Twenty-third Mary McMillan lecture. Footprints. Wood R. **Phys Ther** 1989 Nov;69(11):975–80
Process and outcome [editorial] Kerrigan P. **Practitioner** 1989 Aug 8;233(1473):1047
Accountability of pain control programs in the United States [editorial] Nepomuceno C, et al. **South Med J** 1989 Dec; 82(12):1465–6
Federal practice guidelines and clinical autonomy. Brame JB. **Tex Med** 1990 Jun;86(6):65–7
Going the distance: rural health care in Texas. Griffin T, et al. **Tex Med** 1990 Aug;86(8):26–32
The demand for effectiveness, efficiency and equity of health care. Mooney G. **Theor Med** 1989 Sep;10(3):195–205
Looking backward, thinking forward: the roots of hospital crisis. Rosenberg CE. **Trans Stud Coll Physicians Phila** 1990 Jun;12(2):127–50
[Monitoring progress towards health for all in the European region of WHO IV. Changes in health systems] Curtis SE, et al. **Rev Epidemiol Sante Publique** 1990;38(1):19–26 (Eng. Abstr.) **(Fre)**
[Analysis of health care systems (editorial)] Jährig K. **Arztl Jugendkd** 1990;81(1):2–3 **(Ger)**
[Urgent tasks in improvement of rural health] Potapov AI. **Sov Med** 1990;(5):3–9 **(Rus)**
[Evaluation of the quality and effectiveness of medical care] Lindenbraten AL. **Sov Zdravookhr** 1990;(3):20–2 (Eng. Abstr.) **(Rus)**
[Unit of quality assurance. A strategy to insure optimal levels of medical care quality] Ruelas-Barajas E, et al. **Salud Publica Mex** 1990 Mar–Apr;32(2):225–31 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

Who provides what dental services for children? We need more information. Waldman HB. **ASDC J Dent Child** 1990 Jul–Aug;57(4):289–92

TRENDS

Health care and the private sector in the Third World [letter] Smego RA Jr, et al. **Acad Med** 1990 Feb;65(2):100
An evolving agenda for the AAMC's second century. Sullivan L. **Acad Med** 1990 Apr;65(4):226–30
Divided loyalties in a corporate era. Swenson SL. **Acad Med** 1989 Nov;64(11):649–52; discussion 662–4
False gods. Conner SL. **Ala Med** 1990 Mar;59(9):4, 6
The lessons of history (their application to modern medicine). Mansberger AR Jr. **Am Surg** 1990 Jan;56(1):1–5
Comprehensive health care reform [letter] Klamp D. **Ann Intern Med** 1990 Oct 15;113(8):639
Is health care racist? Funkhouser SW, et al. **ANS** 1990 Jan; 12(2):47–55
Perioperative nurses who take action today prepare for tomorrow. Applegeet CJ. **AORN J** 1990 Jan;51(1):9–11
Health care in the United States. Our dynamic jigsaw puzzle. Ahluwalia JS. **Arch Intern Med** 1990 Feb;150(2):256–8
Somehow we have to stop the train wreck. Part 2 [editorial] Bailey BJ. **Arch Otolaryngol Head Neck Surg** 1990 Jul; 116(7):777–8
Antarctica—lessons for health care planning and delivery

to circumpolar populations. Lugg DJ. **Arctic Med Res** 1988; 47 Suppl 1:360–4
Future trends in health care. Kurent H. **ASHA** 1989 Dec; 31(12):40–2
Trends in the delivery of mental health services for children and adolescents. Philips I. **Bull Menninger Clin** 1990 Winter;54(1):95–100; discussion 101–6
Thoughts on the future of medicine. Rogers DE. **Bull N Y Acad Med** 1989 Oct;65(8):851–8
Combatting chronic disease [letter; comment] Levine LI. **Can Med Assoc J** 1990 Jan 1;142(1):13–4 Comment on: Can Med Assoc J 1989 Oct 15;141(8):797.
Medicine in South Africa [letter] Patterson SD. **Can Med Assoc J** 1990 Sep 1;143(5):369–70
"Health care security"? Not in Ontario [letter] Shamess BA. **Can Med Assoc J** 1990 Apr 15;142(8):798
The assurance of quality care for the cancer patient. Winchester DP. **Cancer** 1990 Feb 1;65(3 Suppl):776–9
No time to lose: family medicine and leadership toward a national health system [editorial] [see comments] Frey JJ, et al. **Fam Med** 1990 Jan–Feb;22(1):10 Comment in: Fam Med 1990 Mar–Apr;22(2):92.
Confronting the millennium: family medicine in the late 20th century. Rosenblatt RA. **Fam Med** 1990 Jan–Feb; 22(1):46–51
HCMR interview: what's ahead for rural health care [interview by Barbara P. McCool] Beck EC, et al. **Health Care Manage Rev** 1989 Fall;14(4):85–95
Health care in the '90s: not more of the same. Altman S. **Hospitals** 1990 Apr 5;64(7):64
A two–track approach to health care reform. Chafee J. **Hospitals** 1990 Jul 5;64(13):88
Who will decide the future of health care? McManis G. **Hospitals** 1990 May 5;64(9):72
Have we reached a new threshold of major change? Tresnowski BR. **Inquiry** 1989 Winter;26(4):415–7
Proletarianization or restratification of the medical profession? The case of obstetrics. Annandale E. **Int J Health Serv** 1989;19(4):611–34
Corporatization of medicine: the use of medical management information systems to increase the clinical productivity of physicians. Feinglass J, et al. **Int J Health Serv** 1990; 20(2):233–52 (126 ref.)
Forecasts from Iowa health care experts. **Iowa Med** 1990 Jan;80(1):14–20
The future of health care: implications for the allied health professions. Bezold C. **J Allied Health** 1989 Fall; 18(5):437–57
Current report—HIV 1989 International Conference on AIDS—Montreal. Goldschmidt RH. **J Am Board Fam Pract** 1989 Oct–Dec;2(4):283–6
The optometrist as ophthalmic gatekeeper [editorial] Bartlett JD. **J Am Optom Assoc** 1989 Nov;60(11):798
Alternate delivery systems. Nussenblatt H. **J Am Optom Assoc** 1989 Nov;60(11):822–6 (9 ref.)
Alternative delivery systems and managed care [editorial] Soroka M. **J Am Optom Assoc** 1989 Nov;60(11):799–800
Quiet crisis: the uninsured participants [editorial] Wuensch RW. **J Am Optom Assoc** 1990 Jun;61(6):438–41
Managing change during complex times [editorial] Rineberg BA. **J Bone Joint Surg [Am]** 1990 Jul;72(6):799–800
Humans in space: NASA's contributions to medical technology and health care. Lathers CM, et al. **J Clin Pharmacol** 1990 Mar;30(3):223–5
Ab urbe condita. Starr AJ. **J Fla Med Assoc** 1989 Jun; 76(6):547–8
Perspectives. Stump CA. **J Fla Med Assoc** 1989 Jun; 76(6):546–7
Changing the structure of medical discourse: implications of cross–national comparisons. Waitzkin H, et al. **J Health Soc Behav** 1989 Dec;30(4):436–49
We're lost! Proceed [editorial] Miller MF. **J Ky Med Assoc** 1989 Oct;87(10):521
The ethical issues of medicine. Rue NB Jr. **J Ky Med Assoc** 1989 Nov;87(11):549–51
Telling the truth about rising health care costs. Norbeck TB. **J La State Med Soc** 1990 Jul;142(7):33–6
Chiropractic: perspectives and concerns. Bohm J. **J Manipulative Physiol Ther** 1990 May;13(4):225–8
Private vs. universal health insurance. Nettles JL. **J Med Assoc Ga** 1990 Mar;79(3):129
Equity and public health care in China. Qiu RZ. **J Med Philos** 1989 Jun;14(3):283–7
Dawn in the east [editorial] McIntyre RV. **J Okla State Med Assoc** 1990 Mar;83(3):105
For profits: a look at the bottom line. Fein R. **J Public Health Policy** 1990 Spring;11(1):49–61
The runaway American health care system [letter] **JAMA** 1990 May 9;263(18):2446–7
Health care changes after independence and transition to majority rule. Barry M, et al. **JAMA** 1990 Feb 2; 263(5):638–40
Applying brakes to the runaway American health care system. A proposed agenda. Davies NE, et al. **JAMA** 1990 Jan 5;263(1):73–6
Privatisation of care in China [letter; comment] [see comments] Aldis WL. **Lancet** 1989 Dec 16;2(8677):1456–7 Comment on: Lancet 1989 Sep 9;2(8663):620. Comment in: Lancet 1990 Feb 17;335(8686):414.
Emerging opportunities for physician–attorneys in the purchaser–driven health care industry of the 1990s. Couch JB. **Leg Med** 1989;:239–54 (8 ref.)
The politics of modernization: Britain's National Health Service in the 1980s. Day P, et al. **Milbank Q** 1989; 67(1):1–34
Looking back with pride ... looking ahead with determination. Christensen RD. **Minn Med** 1990 May; 73(5):43–4
Celestial medicine. Wells LA. **Minn Med** 1990 May; 73(5):23–4
Hospital–physician alliances in an evolving marketplace. Zismer DK. **Minn Med** 1989 Nov;72(11):661–3
Social well–being: the future of the social and health care systems. Kaplan KO. **Mt Sinai J Med** 1989 Nov;56(6):483–9
The health and health care challenges for New York City in the 1990s. Imperato PJ. **N Y State J Med** 1990 Feb; 90(2):51–2
Nurse practitioners creating new horizons for the 1990s. Styles MM. **Nurse Pract** 1990 Feb;15(2):48–50, 53, 56–7
The future of American medicine: busting the myths. Edwards KS. **Ohio Med** 1989 Dec;85(12):937–9
Re–evaluating national health. Edwards KS. **Ohio Med** 1990 Jan;86(1):31–3
Racing toward the millennium. Marshall WJ. **Ohio Med** 1990 Mar;86(3):159–60
The graying of America: optometric considerations. Introduction. Aston SJ. **Optom Vis Sci** 1990 May; 67(5):313–4 (4 ref.)
Impact of health care trends on the practice of optometry. Miller SC. **Optom Vis Sci** 1989 Oct;66(10):698–704
Optometric care of the homebound and institutionalized older adult. Swanson MW. **Optom Vis Sci** 1990 May;67(5):323–8 (28 ref.)
Genetics and health care: a paradigm shift. Baird PA. **Perspect Biol Med** 1990 Winter;33(2):203–13
Possibilities of continuous care. Part I. Dokter HJ. **Pharm Weekbl [Sci]** 1990 Feb 23;12(1):13–5
Intramural and extramural health care in the United Kingdom. Noyce PR. **Pharm Weekbl [Sci]** 1990 Feb 23; 12(1):19–22
Possibilities of continuous care. Part II. van der Does E. **Pharm Weekbl [Sci]** 1990 Feb 23;12(1):16–8
The challenge of health care developments for hospital pharmacy. Vree PH. **Pharm Weekbl [Sci]** 1990 Feb 23; 12(1):26–9
Medicine's winter of discontent [editorial] Glaser RJ. **Pharos** 1990 Spring;53(2):41
Which system will work? Participatory health care [editorial] Lankester T. **Trop Doct** 1989 Oct;19(4):145–6
Trends in patterns of care for breast cancer in Italy (1979–1987). Grilli R, et al. **Tumori** 1990 Apr 30;76(2):184–9
Medicine in extraordinary times. [editorial] Watts MS. **West J Med** 1990 Jun;152(6):711
[End of the century] Dunning AJ. **Ned Tijdschr Geneeskd** 1990 Jan 6;134(1):1–3 **(Dut)**
[Hospital and university physicians: causes of malaise] Roucayrol JC. **Bull Acad Natl Med** 1989 Jun; 173(6):797–800 **(Fre)**
[Thoughts on changes in the health care system of Hungary (letter)] Rádonyi D, et al. **Orv Hetil** 1989 Nov 26; 130(48):2609 **(Hun)**
[Opinions, wishes and exigencies in the development and continuing modernization of health care in Romania] Lăzeanu M. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep; 93(3):440, 470 **(Rum)**
[A system of introduction of the results of scientific research on hygiene into practical health care and national economics] Eksler ND, et al. **Gig Tr Prof Zabol** 1989; (11):26–8 (Eng. Abstr.) **(Rus)**
[Preventive trends in public health and health care] Lisitsyn IuP. **Sov Zdravookhr** 1989;(12):3–9 **(Rus)**
[The impact of AIDS on the health care system] Fineberg HV. **Salud Publica Mex** 1990 Jan–Feb;32(1):80–3 (Eng. Abstr.) **(Spa)**
[Health care system in transition (editorial)] Calltorp J. **Nord Med** 1990;105(6–7):174–5 **(Swe)**

UTILIZATION

Modern health services and health care behavior: a survey in Kathmandu, Nepal. Subedi J. **J Health Soc Behav** 1989 Dec;30(4):412–20

DELIVERY ROOMS see under **OPERATING ROOMS**

DELPHI TECHNIC see under **QUESTIONNAIRES**

DELTA AGENT

Some highlights of virus research in 1988. Hull R, et al. **J Gen Virol** 1989 Nov;70 (Pt 11):2825–42 (132 ref.)
[Delta agent and hepatocellular carcinoma] Klotz F. **Ann Med Interne (Paris)** 1989;140(7):547–9 **(Fre)**

GENETICS

Inhibition of hepatitis delta virus RNA replication in primary woodchuck hepatocytes. Choi SS, et al. **Antiviral Res** 1989 Nov;12(4):213–22
Delta hepatitis. The disease and the virus. Monjardino JP, et al. **Br Med Bull** 1990 Apr;46(2):399–407 (30 ref.)
Hepatitis delta virus: cis and trans functions required for replication. Taylor JM. **Cell** 1990 May 4;61(3):371–3 (15 ref.)
Amino acid sequence similarity between the terminal protein of hepatitis B virus and predicted hepatitis delta virus gene product. Khudyakov YuE, et al. **FEBS Lett** 1990 Mar 26; 262(2):345–8
Intrahepatic markers of hepatitis delta virus infection: a study by in situ hybridization. Negro F, et al. **Hepatology** 1989 Dec;10(6):916–20
Cloning and sequencing of RNA of hepatitis delta virus isolated from human serum. Saldanha JA, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1603–6
Serum hepatitis delta virus RNA in patients with delta hepatitis and in liver graft recipients. Zignego AL, et al. **J Hepatol** 1990 Jul;11(1):102–10
Characterization of the transcripts of hepatitis D and B viruses in infected human livers. Chen PJ, et al. **J Infect Dis** 1989 Dec;160(6):944–7
Correlation of serum delta RNA with clinical course of acute hepatitis delta virus superinfection in Taiwan: a longitudinal study. Wu JC, et al. **J Infect Dis** 1990 Jun;161(6):1116–20
Riboprobe assay for HDV RNA: a sensitive method for the detection of the HDV genome in clinical serum samples. Smedile A, et al. **J Med Virol** 1990 Jan;30(1):20–4
Role of two forms of hepatitis delta virus antigen: evidence for a mechanism of self–limiting genome replication. Chao M, et al. **J Virol** 1990 Oct;64(10):5066–9
In vitro–synthesized hepatitis delta virus RNA initiates genome replication in cultured cells. Glenn JS, et al. **J Virol** 1990 Jun;64(6):3104–7
Hepatitis delta virus genome replication: a polyadenylated mRNA for delta antigen. Hsieh SY, et al. **J Virol** 1990 Jul;64(7):3192–8
Characterization of hepatitis delta antigen: specific binding to hepatitis delta virus RNA. Lin JH, et al. **J Virol** 1990 Sep;64(9):4051–8
A specific base transition occurs on replicating hepatitis delta virus RNA. Luo GX, et al. **J Virol** 1990 Mar;64(3):1021–7
RNA conformational requirements of self–cleavage of hepatitis delta virus RNA. Wu HN, et al. **Mol Cell Biol** 1990 Oct;10(10):5575–9
Amplification of hepatitis delta virus RNA sequences by polymerase chain reaction: a tool for viral detection and cloning. Zignego AL, et al. **Mol Cell Probes** 1990 Feb; 4(1):43–51
Delta virus as a cleaver [letter] Young B, et al. **Nature** 1990 Jan 4;343(6253):28
Continuous expression and replication of the hepatitis delta virus genome in Hep G2 hepatoblastoma cells transfected with cloned viral DNA. Chen PJ, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5253–7
Hepatitis delta virus RNA, protein synthesis and associated cytotoxicity in a stably transfected cell line. Macnaughton TB, et al. **Virology** 1990 Aug;177(2):692–8
Heterogeneity of hepatitis delta antigen. Xia YP, et al. **Virology** 1990 Sep;178(1):331–6

IMMUNOLOGY

Prevalence and significance of intrahepatic hepatitis delta virus antigen expression in HBeAg–negative patients with chronic type–B hepatitis in Taiwan. Chu CM, et al. **Dig Dis Sci** 1989 Dec;34(12):1911–5
Monomeric (7S) immunoglobulin M antibodies to hepatitis delta virus in hepatitis type D. Macagno S, et al. **Gastroenterology** 1990 Jun;98(6):1582–6
Chronic delta hepatitis: detection of hepatitis delta virus antigen in serum by immunoblot and correlation with other markers of delta viral replication. Buti M, et al. **Hepatology** 1989 Dec;10(6):907–10
Evaluation of five hepatitis delta virus marker assays for detection of antigen and antibody. Bezeaud A, et al. **J Clin Microbiol** 1989 Dec;27(12):2880
Development of an enzyme immunoassay using recombinant expressed antigen to detect hepatitis delta virus antibodies. Puig J, et al. **J Clin Microbiol** 1989 Oct;27(10):2222–5
Stable expression of hepatitis delta virus antigen in a eukaryotic cell line. Macnaughton TB, et al. **J Gen Virol** 1990 Jun;71 (Pt 6):1339–45
Cloning and expression of an immunodominant region of the hepatitis delta antigen. Saldanha J, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):471–5
Contrasting prevalence of delta hepatitis markers in parenteral drug abusers with and without AIDS. Kreek MJ, et al. **J Infect Dis** 1990 Aug;162(2):538–41
Anti–HBc IgM and anti–delta screening by EIA method. Kim JS, et al. **J Korean Med Sci** 1986 Sep;1(1):5–13
Intrahepatic expression of HBcAg and delta antigen in anti–HBe positive HBsAg carriers with acute exacerbation or chronic active liver disease. Chu CM, et al. **J Med Virol** 1990 Mar;30(3):181–6
Diagnostic significance of IgM antibody to hepatitis delta virus in fulminant hepatitis B. Tassopoulos NC, et al. **J Med Virol** 1990 Mar;30(3):174–7
Immunoglobulin and hepatitis B surface antigen–specific circulating immune complexes in chronic hepatitis with hepatitis delta virus infection. Tsai JF, et al. **J Med Virol** 1990 Jan;30(1):25–9
Use of recombinant hepatitis delta antigen in diagnostic assays for HDV antibody. Gowans EJ, et al. **J Virol Methods** 1990 Jan;27(1):69–78
Ethnic differences in the prevalence of hepatitis delta agent in Djibouti. Abbatte EA, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):107–8
Sero–epidemiology of hepatitis delta virus infection in Somalia. Aceti A, et al. **Trans R Soc Trop Med Hyg** 1989

May–Jun;83(3):399–400
[Evaluation of the risk of hepatitis delta virus (HDV) infection in a population of hemodialyzed patients: significance of the determination of anti–delta antibodies in the blood] Calcara G, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):229–33 (Eng. Abstr.) **(Ita)**
[Clinical significance of hepatitis delta virus marker analysis] Yotsumoto S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:304–8 **(Jpn)**
[Delta antigen in viral hepatitis—current state of research] Polz MA. **Pol Tyg Lek** 1989 Jan 23;44(4):101–2 (28 ref.) **(Pol)**
[Occurrence of anti–delta agent antibodies in the USSR and Czechoslovakia] Golosova TV, et al. **Gematol Transfuziol** 1990 Feb;35(2):33–4 **(Rus)**
[Detection of delta–antigen in the liver of patients with chronic delta–hepatitis] Dolzhanskiĭ AM, et al. **Vopr Virusol** 1989 Jul–Aug;34(4):483–5 **(Rus)**
[Polypeptide composition of the delta–antigen] Vazykhova FG, et al. **Vopr Virusol** 1989 May–Jun;34(3):299–302 (Eng. Abstr.) **(Rus)**
[Detection rate of antibodies against delta virus among HBsAg carriers in a region with moderate prevalence of hepatitis B] Zhavoronok SV. **Vopr Virusol** 1989 Nov–Dec; 34(6):675–9 (Eng. Abstr.) **(Rus)**
[Prevalence of anti–delta antibodies in HBsAg carriers] Söyletir G, et al. **Mikrobiyol Bul** 1989 Apr;23(2):97–101 (Eng. Abstr.) **(Tur)**

ISOLATION & PURIFICATION

Delta hepatitis in Kiribati: a pacific focus. Tibbs CJ. **J Med Virol** 1989 Oct;29(2):130–2
Immuno–light and electron microscopic features of chronic hepatitis D. Kojima T, et al. **Liver** 1990 Feb;10(1):17–27

PATHOGENICITY

[Hepatitis Delta virus infection] Karasińska M, et al. **Pediatr Pol** 1989 Aug–Sep;64(8–9):579–82 **(Pol)**

PHYSIOLOGY

Delta virus hepatitis. Rizzetto M. **Adv Exp Med Biol** 1989; 257:205–9 (22 ref.)
Hepatitis D (delta) virus. Robinson WS. **Curr Clin Top Infect Dis** 1987;8:84–98 (74 ref.)
Hepatitis B virus and hepatitis D virus replication in HBsAg–positive fulminant hepatitis. Mas A, et al. **Hepatology** 1990 Jun;11(6):1062–5
Study of reactivation of chronic hepatitis delta infection. Govindarajan S, et al. **J Hepatol** 1989 Sep;9(2):204–8
Reappearance of hepatitis D virus (HDV) replication in chronic hepatitis B virus carrier chimpanzees rechallenged with HDV. Negro F, et al. **J Infect Dis** 1989 Oct; 160(4):567–71

DELTA HEPATITIS see DELTA INFECTION

DELTA INFECTION

Clinical presentatien of acute viral hepatitis. McIntyre N. **Br Med Bull** 1990 Apr;46(2):533–47 (75 ref.)
Type D (delta) hepatitis [letter; comment] **JAMA** 1989 Dec 1;262(21):2995–6 Comment on: JAMA 1989 Mar 3;261(9):1321–5.

BLOOD

Serum hepatitis delta virus RNA in patients with delta hepatitis and in liver graft recipients. Zignego AL, et al. **J Hepatol** 1990 Jul;11(1):102–10
[Evaluation of the risk of hepatitis delta virus (HDV) infection in a population of hemodialyzed patients: significance of the determination of anti–delta antibodies in the blood] Calcara G, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep;61(3):229–33 (Eng. Abstr.) **(Ita)**
[Infection caused by the human immunodeficiency virus, hepatitis B virus and delta virus in homosexual males] Bassa A, et al. **Med Clin (Barc)** 1989 Oct 28;93(13):490–2 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Fulminant viral hepatitis. Fagan EA, et al. **Br Med Bull** 1990 Apr;46(2):462–80 (50 ref.)
Viral hepatitis and haemophilia. Lee CA, et al. **Br Med Bull** 1990 Apr;46(2):408–22 (56 ref.)
Delta hepatitis. The disease and the virus. Monjardino JP, et al. **Br Med Bull** 1990 Apr;46(2):399–407 (30 ref.)
Hepatitis delta virus infection in human immunodeficiency virus–positive patients [letter; comment] Goldin R, et al. **Hepatology** 1990 May;11(5):903–4 Comment on: Hepatology 1989 Sep;10(3):342–5.
Hepatic viruses and liver cancer [letter] Barkin RL, et al. **Hosp Pract [Off]** 1990 Sep 15;25(9):13, 16
The pattern of bilharzial infection with hepatitis B virus associated with delta agent. Aly MA, et al. **J Egypt Soc Parasitol** 1989 Dec;19(2 Suppl):869–78
Acute hepatitis delta virus superinfection in patients with liver cirrhosis. Liaw YF, et al. **J Hepatol** 1990 Jan; 10(1):41–5
Contrasting prevalence of delta hepatitis markers in parenteral drug abusers with and without AIDS. Kreek MJ, et al. **J Infect Dis** 1990 Aug;162(2):538–41
Hepatitis delta virus infection and acute HBsAg–negative hepatitis B [letter; comment] Rodríguez M, et al. **J Infect Dis** 1990 Jul;162(1):276–8 Comment on: J Infect Dis 1989 May;159(5):977–9.
Correlation of serum delta RNA with clinical course of acute hepatitis delta virus superinfection in Taiwan: a longitudinal study. Wu JC, et al. **J Infect Dis** 1990 Jun;161(6):1116–20
Diagnostic significance of IgM antibody to hepatitis delta virus in fulminant hepatitis B. Tassopoulos NC, et al. **J Med Virol** 1990 Mar;30(3):174–7
Does the experience with liver transplantation suggest that hepatitis delta virus is not cytopathic? Grendele M, et al. **Transplant Proc** 1990 Aug;22(4):1551–3
Hepatitis B liver disease in cyclosporine–treated renal allograft recipients. Huang CC, et al. **Transplantation** 1990 Mar;49(3):540–4
[Delta agent and hepatocellular carcinoma] Klotz F. **Ann Med Interne (Paris)** 1989;140(7):547–9 **(Fre)**
[Clinical aspects and outcome of chronic persistent hepatitis B during hepatitis A virus and delta virus superinfections] Nikiforov ND, et al. **Klin Med (Mosk)** 1990 Mar;68(3):50–4 **(Rus)**
[Delta infection and chronic active hepatitis B in children] Kupershtein AP, et al. **Pediatriia** 1990;(2):48–51 **(Rus)**

DIAGNOSIS

Diagnosis of hepatitis delta virus infection. Di Bisceglie AM, et al. **Hepatology** 1989 Dec;10(6):1014–6 (30 ref.)
Diagnosis and onset of acute hepatitis delta virus infection [letter] Liaw YF. **Hepatology** 1990 Aug;12(2):378–9
Hepatitis B and delta viruses in fulminant hepatitis. Desai P, et al. **Indian J Gastroenterol** 1990 Jul;9(3):209–10
Use of recombinant hepatitis delta antigen in diagnostic assays for HDV antibody. Gowans EJ, et al. **J Virol Methods** 1990 Jan;27(1):69–78
[Clinical significance of hepatitis delta virus marker analysis] Yotsumoto S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:304–8 **(Jpn)**
[Delta infection in various forms of hepatitis B] Laskus T, et al. **Pol Arch Med Wewn** 1989 Jun;81(6):330–5 (Eng. Abstr.) **(Pol)**
[Delta hepatitis as a mixed infection] Fedorchenko SV, et al. **Vrach Delo** 1990 Mar;(3):5–8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Acute delta hepatitis during treatment with adenosine arabinoside monophosphate with resolution of the HBsAg carrier state. Garcia G, et al. **West J Med** 1990 Jul; 153(1):80–2

EPIDEMIOLOGY

Delta virus hepatitis. Rizzetto M. **Adv Exp Med Biol** 1989; 257:205–9 (22 ref.)
The association of hepatitis delta virus and hepatitis B virus in parenteral drug abusers. 1971 to 1972 and 1986 to 1987. Lange WR, et al. **Arch Intern Med** 1990 Feb;150(2):365–8
Seroepidemiology of the hepatitis B and delta in the southeast of Chiapas, Mexico. Alvarez–Muñoz T, et al. **Arch Invest Med (Mex)** 1989 Apr–Jun;20(2):189–95
Prevalence of hepatitis B virus, delta agent and human immunodeficiency virus infections in drug addicts. Bailly D, et al. **Biomed Pharmacother** 1989;43(6):431–7 (54 ref.)
Viral hepatitis comparative epidemiology. Wright R. **Br Med Bull** 1990 Apr;46(2):548–58 (36 ref.)
Prevalence and significance of intrahepatic hepatitis delta virus antigen expression in HBeAg–negative patients with chronic type–B hepatitis in Taiwan. Chu CM, et al. **Dig Dis Sci** 1989 Dec;34(12):1911–5
Hepatitis delta virus in homosexual men in Sydney. Bodsworth NJ, et al. **Genitourin Med** 1989 Aug;65(4):235–8
A study on delta virus infection and its clinical impact in Iran. Rezvan H, et al. **Infection** 1990 Jan–Feb;18(1):26–8
Delta hepatitis infection in north India. A preliminary report. Kochhar R, et al. **J Assoc Physicians India** 1989 May; 37(5):310–1
Delta infection and drug abuse in Merseyside. Turner GC, et al. **J Infect** 1989 Sep;19(2):113–8
Hepatitis delta virus antibodies in hepatitis B surface antigen asymptomatic carriers in Senegal [letter] Bacha A, et al. **J Infect Dis** 1990 Jan;161(1):150–1
Intravenous drug users: the only important reservoir of delta virus in Spain [letter] Pérez–Trallero E, et al. **J Infect Dis** 1990 Jan;161(1):152
Hepatitis delta virus infections in intravenous drug abusers with hepatitis B in the west of Scotland. McCruden EA, et al. **J Med Virol** 1989 Sep;29(1):59–62
Delta hepatitis in Kiribati: a pacific focus. Tibbs CJ. **J Med Virol** 1989 Oct;29(2):130–2
Prevalence of liver disease and infection by hepatitis B, delta virus, and human immunodeficiency virus in two Spanish penitentiaries. del Olmo JA, et al. **Med Microbiol Immunol (Berl)** 1990;179(1):43–8
Human immunodeficiency virus and viral hepatitis seroepidemiology in New York City intravenous drug abusers (IVDAs). Brown LS Jr, et al. **NIDA Res Monogr** 1989;95:443–4
Prevalence of hepatitis delta virus infection in Malaysia. Tan DS, et al. **Singapore Med J** 1989 Feb;30(1):34–7
Sero–epidemiology of hepatitis delta virus infection in Somalia. Aceti A, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):399–400
HIV, HBV, delta–agent and Treponema pallidum infections in two rural African areas. de Lalla F, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):144–7
A seroepidemiological survey of viral hepatitis in the Yemen Arab Republic. Scott DA, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):288–91
Hepatitis delta virus as a global health problem. Rizzetto M, et al. **Vaccine** 1990 Mar;8 Suppl:S10–4; discussion S21–3 (69 ref.)
[Markers of viral hepatitis B and D and levels of alanine aminotransferase in military blood donors: a profile of 30,000 blood donations in 1989] Boulesteix G, et al. **Rev Fr Transfus Hemobiol** 1990 Jan;33(1):9–20 (Eng. Abstr.) **(Fre)**
[The spread of delta infection in the USSR] Viazov SO, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Oct; (10):96–101 (31 ref.) **(Rus)**
[Hepatitis B and hepatitis delta in young inmates] Bayas JM, et al. **Med Clin (Barc)** 1990 Feb 10;94(5):164–8 (Eng. Abstr.) **(Spa)**
[Prevalence of anti–delta antibodies in HBsAg carriers] Söyletir G, et al. **Mikrobiyol Bul** 1989 Apr;23(2):97–101 (Eng. Abstr.) **(Tur)**

ETIOLOGY

Hepatitis D virus infection among intravenous drug abusers in Taiwan: analysis of risk factors and liver function tests. Hsu HM, et al. **J Med Virol** 1990 Jun;31(2):76–81
Immunoglobulin and hepatitis B surface antigen–specific circulating immune complexes in chronic hepatitis with hepatitis delta virus infection. Tsai JF, et al. **J Med Virol** 1990 Jan;30(1):25–9
Hepatitis delta virus infection. Bonino F, et al. **Prog Liver Dis** 1990;9:485–96 (58 ref.)
[Hepatitis Delta virus infection] Karasińska M, et al. **Pediatr Pol** 1989 Aug–Sep;64(8–9):579–82 **(Pol)**
[Viral hepatitis of the delta type] Laskus T, et al. **Pol Arch Med Wewn** 1988 Dec;80(6):340–6 (0 ref.) **(Pol)**

IMMUNOLOGY

Characterization of anti liver kidney microsomal antibody associated with chronic HDV infection by immunoblotting. Lenzi M, et al. **Adv Exp Med Biol** 1989;257:255–6
Hepatitis delta virus and autoantibodies to epithelial cells. Miserocchi F, et al. **Adv Exp Med Biol** 1989;257:273–5
Prevalence of markers for hepatitis B and hepatitis D in a municipal house of correction. Barry MA, et al. **Am J Public Health** 1990 Apr;80(4):471–3
IgM anti–HBc in acute and chronic hepatitis B virus (HBV) infection: diagnostic value and correlation with viral replication and disease activity. Craxì A, et al. **Boll Ist Sieroter Milan** 1988;67(4):275–82
Autoantibodies in chronic delta virus infection recognize a common protein of 46 kD in rat forestomach basal cell layer and stellate thymic epithelial cells. Amengual MJ, et al. **Clin Exp Immunol** 1989 Oct;78(1):80–4
Monomeric (7S) immunoglobulin M antibodies to hepatitis delta virus in hepatitis type D. Macagno S, et al. **Gastroenterology** 1990 Jun;98(6):1582–6
Chronic delta hepatitis: detection of hepatitis delta virus antigen in serum by immunoblot and correlation with other markers of delta viral replication. Buti M, et al. **Hepatology** 1989 Dec;10(6):907–10
Cytoplasmic antigen in hepatocytes of chimpanzees infected with non–A, non–B hepatitis virus or hepatitis delta virus: relationship to interferon. Shimizu YK, et al. **Hepatology** 1989 Nov;10(5):764–8
Oligoclonal immunoglobulins in serum of patients with chronic viral hepatitis. Papadopoulos NM, et al. **J Clin Lab Anal** 1990;4(3):180–2
Serological profile of tissue autoantibodies during acute and chronic delta hepatitis. Buti M, et al. **J Hepatol** 1989 Nov; 9(3):345–50
Intrahepatic expression of HBcAg and delta antigen in anti–HBe positive HBsAg carriers with acute exacerbation or chronic active liver disease. Chu CM, et al. **J Med Virol** 1990 Mar;30(3):181–6
Further studies of 48–1 antigen in serial liver biopsies from chimpanzees infected with hepatitis delta virus. Sugitani M, et al. **J Med Virol** 1990 Jun;31(2):148–54
An outbreak of suspected water–borne epidemic non–A non–B hepatitis in northern Botswana with a high prevalence of hepatitis B carriers and hepatitis delta markers among patients. Byskov J, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):110–6
[Delta antigen in viral hepatitis—current state of research] Polz MA. **Pol Tyg Lek** 1989 Jan 23;44(4):101–2 (28 ref.) **(Pol)**
[Occurrence of anti–delta agent antibodies in the USSR and Czechoslovakia] Golosova TV, et al. **Gematol Transfuziol** 1990 Feb;35(2):33–4 **(Rus)**
[Detection of delta–antigen in the liver of patients with chronic delta–hepatitis] Dolzhanskiĭ AM, et al. **Vopr Virusol** 1989 Jul–Aug;34(4):483–5 **(Rus)**
[Lymphocyte subpopulations in patients with viral hepatitis B and delta–infections] Savitskiĭ GI, et al. **Vopr Virusol** 1989 May–Jun;34(3):296–9 (Eng. Abstr.) **(Rus)**
[Monomeric (7S) and polymeric (19S) molecules of anti–delta IfM in acute and chronic delta–infection] Viazov SO, et

al. Vopr Virusol 1989 Sep-Oct;34(5):617-21 (Rus)

MICROBIOLOGY

Hepatitis D (delta) virus. Robinson WS. Curr Clin Top Infect Dis 1987;8:84-98 (74 ref.)

Inhibition of HBV replication during coinfection with HBV and HDV: inhibition of the inhibition by coinfection with HIV. Govindarajan S. Hepatology 1990 Apr;11(4):703-4

Intrahepatic markers of hepatitis delta virus infection: a study by in situ hybridization. Negro F, et al. Hepatology 1989 Dec;10(6):916-20

Reappearance of hepatitis D virus (HDV) replication in chronic hepatitis B virus carrier chimpanzees rechallenged with HDV. Negro F, et al. J Infect Dis 1989 Oct; 160(4):567-71

[Delta hepatitis (a review of the literature)] Sharov EI. Vrach Delo 1990 Mar;(3):9-12 (43 ref.) (Rus)

PATHOLOGY

Studies on the composition of the mononuclear cell infiltrates in liver from patients with chronic active delta hepatitis. Chu CM, et al. Hepatology 1989 Dec;10(6):911-5

Immuno-light and electron microscopic features of chronic hepatitis D. Kojima T, et al. Liver 1990 Feb;10(1):17-27

Sanded nuclei in delta patients. Moreno A, et al. Liver 1989 Dec;9(6):367-71

[Hepatitis delta virus infection: an immunohistochemical study] Preisegger KH, et al. Wien Klin Wochenschr 1989 Sep 1;101(16):544-7 (Eng. Abstr.) (Ger)

[Liver morphology in delta virus hepatitis] Loginov AS, et al. Arkh Patol 1989;51(10):18-25 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Study of reactivation of chronic hepatitis delta infection. Govindarajan S, et al. J Hepatol 1989 Sep;9(2):204-8

[Microcirculatory function in various clinical forms of HB and HD viral infections] Nikiforov ND, et al. Ter Arkh 1989;61(11):31-4 (Eng. Abstr.) (Rus)

[The course of acute hepatitis B and B + D (letter)] Rodriguez M, et al. Med Clin (Barc) 1989 Dec 9; 93(19):757-8 (Spa)

PREVENTION & CONTROL

Hepatitis D: yet another reason to get your HBV vaccine [news] Lisanti P, et al. Am J Nurs 1990 Apr;90(4):29-30

Control of HBV and HDV infection in an isolated Pacific Island: 1. Pattern of infection. Speed BR, et al. J Med Virol 1989 Sep;29(1):13-9

THERAPY

Antiviral therapy of chronic viral hepatitis. ACG Committee on FDA-Related Matters. Di Bisceglie AM, et al. Am J Gastroenterol 1990 Jun;85(6):650-4 (40 ref.)

Treatment of chronic delta infection with recombinant human interferon alpha 2c at high doses. Porres JC, et al. J Hepatol 1989 Nov;9(3):338-44

Treatment of chronic hepatitis delta virus (HDV) infection with human lymphoblastoid alpha interferon. Farci P, et al. Q J Med 1989 Nov;73(271):1045-54

Treatment of chronic type D (delta) hepatitis with alpha interferon. Rosina F, et al. Semin Liver Dis 1989 Nov; 9(4):264-6 (11 ref.)

[Reaferon treatment in acute HBsAG-positive viral hepatitis] Gorbarets IP, et al. Klin Med (Mosk) 1990 Mar;68(3):65-8 (Eng. Abstr.) (Rus)

TRANSMISSION

Sexual transmission of hepatitis D virus infection in Taiwan. Wu JC, et al. Hepatology 1990 Jun;11(6):1057-61

DELTA RHYTHM see under ELECTROENCEPHALOGRAPHY

DELTA SLEEP-INDUCING PEPTIDE

ADMINISTRATION & DOSAGE

[Appearance of parkinsonian syndrome after administration of delta sleep-inducing peptide into the rat substantia nigra] Kryzhanovskiĭ GN, et al. Biull Eksp Biol Med 1990 Feb; 109(2):119-21 (Eng. Abstr.) (Rus)

BIOSYNTHESIS

Biosynthesis and processing of delta sleep-inducing peptide-like precursors in primary cultures of mouse anterior pituitary cells. Bjartell A, et al. Eur J Biochem 1990 May 31;190(1):131-7

METABOLISM

Aminopeptidase in human CSF which degrades delta-sleep inducing peptide (DSIP). Nyberg F, et al. Biochem Biophys Res Commun 1990 Mar 30;167(3):1256-62

Coexistence of delta sleep-inducing peptide and serotonin in midgut carcinoid tumour cells in vivo and in vitro. Ahlman H, et al. Int J Cancer 1989 Oct 15;44(4):641-7

Distribution and colocalization of delta sleep-inducing peptide and luteinizing hormone-releasing hormone in the aged human brain: an immunohistochemical study. Vallet PG, et al. J Chem Neuroanat 1990 May-Jun;3(3):207-14

Immunohistochemical colocalization of delta sleep-inducing peptide and luteinizing hormone-releasing hormone in rabbit brain neurons. Charnay Y, et al. Neuroscience 1989; 31(2):495-505

PHARMACOKINETICS

In-vitro characterization of blood-brain barrier permeability to delta sleep-inducing peptide. Raeissi S, et al. J Pharm Pharmacol 1989 Dec;41(12):848-52

PHARMACOLOGY

The effect of delta sleep-inducing peptide (DSIP) and phosphorylated DSIP (P-DSIP) on the apomorphine-induced hypothermia in rats. Tsunashima K, et al. Brain Res 1990 Feb 26;510(1):171-4

Reduction of immunoreactive ACTH in plasma following intravenous injection of delta sleep-inducing peptide in man. Bjartell A, et al. Psychoneuroendocrinology 1989; 14(5):347-55

[Neuropeptides and analgesic pharmacology] Satoh M. Nippon Rinsho 1990 May;48(5):1071-6 (Jpn)

[Analysis of the mechanism of the stress-protective action of delta sleep-inducing peptide] Iukhananov RIu, et al. Biull Eksp Biol Med 1990 Jan;109(1):46-7 (Eng. Abstr.) (Rus)

[Effects of delta sleep-inducing peptide on the intercentral integration during experimental epilepsy] Popova NS, et al. Biull Eksp Biol Med 1989 Aug;108(8):147-50 (Eng. Abstr.) (Rus)

[The effect of the delta-sleep peptide on the homocarnosine content of the brain in rats under the action of cold stress] Bondarenko TI, et al. Fiziol Zh SSSR 1989 Dec; 75(12):1788-90 (Rus)

[Delta-sleep peptide as a modulator of cardiac activity: theoretical recommendations for practice] Ul'ianinskiĭ LS, et al. Kosm Biol Aviakosm Med 1990 May-Jun;24(3):23-8 (24 ref.) (Eng. Abstr.) (Rus)

PHYSIOLOGY

[Nerve tissue distribution and physiologic role of sleep peptides] Inoué S. Nippon Rinsho 1990 May;48(5):1061-5 (Jpn)

[Effects of beta endorphin and delta-sleep inducing peptide on resistance to emotional stress] Salieva RM, et al. Biull Eksp Biol Med 1989 Oct;108(10):464-6 (Eng. Abstr.) (Rus)

[Delta sleep-inducing peptide as a modulator of mediators acting on the heart] Ul'ianinskiĭ LS, et al. Biull Eksp Biol Med 1990 May;109(5):419-20 (Eng. Abstr.) (Rus)

SECRETION

Immunoreactive delta sleep-inducing peptide secretion from mouse dissociated, anterior pituitary cells: regulation by corticotropin-releasing factor and arginine vasopressin. Bjartell A, et al. Neuroendocrinology 1989 Nov;50(5):564-9

THERAPEUTIC USE

[The role of delta-sleep-inducing peptide in the normalization of cardiac electric stability in experimental emotional stress] Ul'ianinskiĭ LS, et al. Kardiologiia 1990 Mar;30(3):75-8 (Eng. Abstr.) (Rus)

DELTA SUPERINFECTION see DELTA INFECTION

DELTA(9)-THC see TETRAHYDROCANNABINOL

DELUSIONS

Lycanthropy and self-identification. Kulick AR, et al. J Nerv Ment Dis 1990 Feb;178(2):134-7 (14 ref.)

Delusional bovine spongiform encephalopathy [letter] Lovestone S. Lancet 1990 Sep 1;336(8714):565

Schizophrenia, schizotypal and delusional disorders (section F2): results of the ICD-10 field trial. Albus M, et al. Pharmacopsychiatry 1990 Jun;23 Suppl 4:155-9

[Comparison of the content of delusions of schizophrenics in China and Japan: cross-cultural psychiatric investigation] Zheng ZP. Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Oct; 22(5):266-8, 317 (Eng. Abstr.) (Chi)

CHEMICALLY INDUCED

Cocaine-induced delirium versus delusional disorder [letter; comment] Pearlson GD, et al. Biol Psychiatry 1989 Dec; 26(8):847-8 Comment on: Biol Psychiatry 1988 Dec;24(8):865-85.

CLASSIFICATION

A classification system for misidentification syndromes. Silva JA, et al. Psychopathology 1990;23(1):27-32

[Validity of dysthymic schizophrenia: apropos of a cohort study of delusional adolescents] Halfon O, et al. Ann Med Psychol (Paris) 1989 Mar-Apr;147(2):233-5 (Fre)

[An approach to a French classification of delusions] Porot M. Ann Med Psychol (Paris) 1989 May-Jun;147(3):374-8; discussion 378-81 (0 ref.) (Fre)

COMPLICATIONS

Delusions in Marfan syndrome [letter] van Bavel LP, et al. J Clin Psychiatry 1989 Dec;50(12):473

DIAGNOSIS

Diagnosis and clinical course of erotomanic and other delusional patients. Rudden M, et al. Am J Psychiatry 1990 May;147(5):625-8

Diagnosis and classification of erotomania [letter] Wood BE, et al. Am J Psychiatry 1990 Oct;147(10):1388-9

Dysmorphophobia: body dysmorphic disorder or delusional disorder, somatic subtype? de Leon J, et al. Compr Psychiatry 1989 Nov-Dec;30(6):457-72 (124 ref.)

Syndrome of intermetamorphosis: a new perspective [letter; comment] Signer SF. Compr Psychiatry 1990 Jan-Feb; 31(1):84-5 Comment on: Compr Psychiatry 1989 May-Jun;30(3):209-13.

Koro or hysteria? [letter; comment] Sheeley WF. J Clin Psychiatry 1990 Jan;51(1):39 Comment on: J Clin Psychiatry 1989 May;50(5):181-3.

Classification and outcome in nonschizophrenic, nonaffective delusional psychoses. Jørgensen P. Psychopathology 1989; 22(4):198-201

Course and outcome in delusional psychoses. A 4-year re-follow-up. Jørgensen P. Psychopathology 1989; 22(5):233-8

[Factor analysis of the features of delusions] Grzywa A. Psychiatr Pol 1989 May-Jun;23(3):176-83 (Eng. Abstr.) (Pol)

DRUG THERAPY

Fluoxetine in refractory depression [letter] Solyom L, et al. Biol Psychiatry 1990 Feb 15;27(4):461-3

Pimozide in pathological jealousy [see comments] Byrne A, et al. Br J Psychiatry 1989 Aug;155:249-51 Comment in: Br J Psychiatry 1989 Nov;155:714.

The treatment of monodelusional psychosis associated with depression. Chiu S, et al. Br J Psychiatry 1990 Jan; 156:112-5

Successful treatment of chronic delusional parasitosis. Mitchell C. Br J Psychiatry 1989 Oct;155:556-7

Pimozide in delusions of parasitosis. Damiani JT, et al. J Am Acad Dermatol 1990 Feb;22(2 Pt 1):312-3

Delusion of parasitosis: a report of ten cases at Srinagarind Hospital. Paholpak S. J Med Assoc Thai 1990 Feb; 73(2):111-4

[The anti-koro effect of a tricyclic antidepressant] Turnier L, et al. Can J Psychiatry 1990 May;35(4):331-3 (Eng. Abstr.) (Fre)

[Remoxipride, a selective antagonist of dopamine D2 receptors, in the treatment of delusional psychoses] Lewander T, et al. Encephale 1990 Mar-Apr;16(2):153-7 (21 ref.) (Eng. Abstr.) (Fre)

EPIDEMIOLOGY

Nondelusional or borderline erotomania [letter; comment] Meloy JR. Am J Psychiatry 1990 Jun;147(6):820-1 Comment on: Am J Psychiatry 1989 Oct;146(10):1261-6.

Delusions in newly admitted residents of nursing homes. Morriss RK, et al. Am J Psychiatry 1990 Mar; 147(3):299-302

The frequency of shared delusions in delusions of infestation. Musalek M, et al. Eur Arch Psychiatry Neurol Sci 1990; 239(4):263-6

Werewolves down under—where are they now? [letter; comment] Berkley R. Med J Aust 1990 Apr 16;152(8):448 Comment on: Med J Aust 1989 Dec 4-18;151(11-12):663-5.

Delusional depression in the elderly: a community study. Kivelä SL, et al. Z Gerontol 1989 Sep-Oct;22(5):236-41

ETIOLOGY

Psychiatric presentation of a venous angioma of the frontal lobe. Nagaratnam N, et al. Br J Clin Pract 1990 Jan; 44(1):34-5

Olfactory delusional syndrome with various aetiologies [published erratum appears in Br J Psychiatry 1990 Jul;157:155] Malasi TH, et al. Br J Psychiatry 1990 Feb; 156:256-60

Television: fantastic reality or realistic fantasy? [letter] Fulton JD, et al. J Am Geriatr Soc 1990 Jul;38(7):829

Monosymptomatic delusions of parasitosis associated with ischemic cerebrovascular disease. Flynn FG, et al. J Geriatr Psychiatry Neurol 1989 Jul-Sep;2(3):134-9

Delusions after extracorporeal shockwave lithotripsy [letter] [see comments] Kawanishi Y, et al. Lancet 1989 Nov 11; 2(8672):1152-3 Comment in: Lancet 1989 Dec 23-30;2(8678-8679):1524-5.

Delusions after extracorporeal shock-wave lithotripsy [letter; comment] Mathieson PW. Lancet 1989 Dec 23-30; 2(8678-8679):1524-5 Comment on: Lancet 1989 Nov 11;2(8672):1152-3.

[Systematized temporal delusion and hearing disorders of cortical origin] Assal G, et al. Rev Neurol (Paris) 1990; 146(4):249-55 (29 ref.) (Eng. Abstr.) (Fre)

["Helikobacterium-induced delusions" (letter)] Hansen WF, et al. Dtsch Med Wochenschr 1990 Aug 17;115(33):1254 (Ger)

[Unfavorable course of recurrent (schizoaffective) schizophrenia] Mosolov SN. Zh Nevropatol Psikhiatr 1990;

90(1):80–7 (Eng. Abstr.) (Rus)
[Psychopathological characteristics of the dysmorphophobia syndrome in attack-like progressive schizophrenia] Tazabekova ZhK. **Zh Nevropatol Psikhiatr** 1990;90(3):95–9 (Eng. Abstr.) (Rus)
[Pathogenesis of the delusional formation in Ekbom's syndrome] De León OA, et al. **Rev Med Panama** 1990 Jan; 15(1):42–9 (Eng. Abstr.) (Spa)

HISTORY

Delusional depression in 19th century Scotland [letter; comment] Robinson A. **Br J Psychiatry** 1989 Apr;154:573–4 Comment on: Br J Psychiatry 1988 Nov;153:710–1.
The social biology of the werewolf trials [letter; comment] Russell WM, et al. **J R Soc Med** 1989 Jun;82(6):379–80 Comment on: J R Soc Med 1989 Jan;82(1):37–9.

PSYCHOLOGY

Dysmorphic penis image perception: the root of Koro vulnerability. A longitudinal study. Chowdhury AN. **Acta Psychiatr Scand** 1989 Nov;80(5):518–20
Penile perception of Koro patients. Chowdhury AN. **Acta Psychiatr Scand** 1989 Aug;80(2):183–6
Primary and secondary erotomania: clinical characteristics and follow-up. Gillett T, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):65–9
Delusional disorders. I. Comparative long-term outcome. Opjordsmoen S. **Acta Psychiatr Scand** 1989 Dec; 80(6):603–12
Delusional disorders. II. Predictor analysis of long-term outcome. Opjordsmoen S. **Acta Psychiatr Scand** 1989 Dec; 80(6):613–9
Erotomania and senile dementia [letter] Carrier L. **Am J Psychiatry** 1990 Aug;147(8):1092
Delusional halitosis. Review of the literature and analysis of 32 cases. Iwu CO, et al. **Br Dent J** 1990 Apr 7; 168(7):294–6 (11 ref.)
Content specific information processing and persecutory delusions: an investigation using the emotional Stroop test. Bentall RP, et al. **Br J Med Psychol** 1989 Dec;62 (Pt 4):355–64
Koro: the genital retraction symptom after stroke. Anderson DN. **Br J Psychiatry** 1990 Jul;157:142–4
Erotomania in a Saudi woman. el-Assra A. **Br J Psychiatry** 1989 Oct;155:553–5
Psychiatric phenomena in Alzheimer's disease. I: Disorders of thought content. Burns A, et al. **Br J Psychiatry** 1990 Jul;157:72–6, 92–4
Delusions of pregnancy in men. Case report and review of the literature [see comments] Chaturvedi SK. **Br J Psychiatry** 1989 May;154:716–8 (8 ref.) Comment in: Br J Psychiatry 1989 Sep;155:422–4.
Delusions of pregnancy in men [letter; comment] Chengappa KN, et al. **Br J Psychiatry** 1989 Sep;155:422–4 Comment on: Br J Psychiatry 1989 May;154:716–8.
Homosexual erotomania [letter; comment] Eminson S, et al. **Br J Psychiatry** 1989 Jul;155:128–9 Comment on: Br J Psychiatry 1988 Dec;153:830–3.
Psychoanalytical aspects of morbid jealousy in women. Freeman T. **Br J Psychiatry** 1990 Jan;156:68–72
De Clérambault's syndrome (erotomania) in organic delusional syndrome. el Gaddal YY. **Br J Psychiatry** 1989 May;154:714–6
Delusion of inanimate doubles [letter; comment] Signer SF. **Br J Psychiatry** 1989 Apr;154:573 Comment on: Br J Psychiatry 1988 Nov;153:694–9.
Homo-erotomania [letter] Signer SF. **Br J Psychiatry** 1989 May;154:729
Unrequited love and the wish to kill. Diagnosis and treatment of borderline erotomania. Meloy JR. **Bull Menninger Clin** 1989 Nov;53(6):477–92
Bouffée délirante in Jamaican adolescent siblings. Roberts N. **Can J Psychiatry** 1990 Apr;35(3):251–3
Split body and self: an unusual case of misidentification. Silva JA, et al. **Can J Psychiatry** 1989 Oct;34(7):728–30
Disordered recognition and perception of human faces in acute schizophrenia and experimental psychosis. Harrington A, et al. **Compr Psychiatry** 1989 Sep–Oct; 30(5):376–84
Major depression in late life with AIDS delusions. A case report and review. Colenda CC 3d, et al. **Gen Hosp Psychiatry** 1990 May;12(3):207–9
A sexual theory of persecutory delusions. Freeman T. **Int J Psychoanal** 1989;70 (Pt 4):685–92
Assessment of behavioral and affective symptoms in Alzheimer's disease. Patterson MB, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):21–30
Persistent auditory hallucinations and their relationship to delusions and mood. Hustig HH, et al. **J Nerv Ment Dis** 1990 Apr;178(4):264–7
Delusional misidentification involving the self. Kamanitz JR, et al. **J Nerv Ment Dis** 1989 Nov;177(11):658–8 (37 ref.)
Female genital self-mutilation: case reports and literature review. Wise TN, et al. **J Sex Marital Ther** 1989 Winter; 15(4):269–74 (13 ref.)
A patient with panic disorder eventuating in psychosis: nosologic implications [see comments] Ciccone PE, et al. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):478–80 Comment in: Psychiatr J Univ Ott 1990 Mar;15(1):64.
Phenomenological questions about obsession and delusion. Ballerini A, et al. **Psychopathology** 1989;22(6):315–9 (14 ref.)
The Dolittle phenomenon: hallucinatory voices from animals. Dening TR, et al. **Psychopathology** 1990;23(1):40–5
Multiple serial lycanthropy. A case report. Dening TR, et al. **Psychopathology** 1989;22(6):344–7
Prediction of clinical course and outcome in delusional psychoses. A multivariate analysis of a 4-year re-follow-up. Jørgensen P. **Psychopathology** 1989; 22(4):218–23
Latent class analysis of deluded patients. Jørgensen P, et al. **Psychopathology** 1990;23(1):46–51
A dimensional approach to severe delusional psychoses. Jørgensen P, et al. **Psychopathology** 1990;23(1):9–14
Delusional theme, sex and age. Musalek M, et al. **Psychopathology** 1989;22(5):260–7
Persistence of delusional content among psychotics over consecutive episodes. Sinha VK, et al. **Psychopathology** 1989;22(4):208–12
'Delusion of world destruction' (Wetzel). Comparative study between Japan and West Germany. Tateyama M. **Psychopathology** 1989;22(6):289–94
The psychotic fear of AIDS. Frierson RL. **Psychosomatics** 1990 Spring;31(2):217–9
Delusions of fatal contagion among refugee patients. Westermeyer J, et al. **Psychosomatics** 1989 Fall; 30(4):374–82
Cotard's syndrome—two case reports. Ko SM. **Singapore Med J** 1989 Jun;30(3):277–8
[A case of lycanthropy with deadly violence] Bénézech M, et al. **Ann Med Psychol (Paris)** 1989 Jul–Aug;147(4):464–70 (22 ref.) (Eng. Abstr.) (Fre)
[Disorders of body perception in schizophrenic psychosis. A case report] Schmoll D, et al. **Nervenarzt** 1989 Oct; 60(10):619–27 (Ger)
[Delusion and dreams in "Death in Venice". Thomas Mann's consequential reading of Freud in 1911] Dierks M. **Psyche (Stuttg)** 1990 Mar;44(3):240–68 (Eng. Abstr.) (Ger)
[Alcoholic delusion of jealousy—psychopathologic characteristics of 2 types of disease course] Soyka M, et al. **Psychiatr Prax** 1989 Sep;16(5):189–93 (Eng. Abstr.) (Ger)
[Delusions of parasitic skin infestation in elderly dermatologic patients] Hornstein OP, et al. **Z Hautkr** 1989 Nov 15; 64(11):981–2, 985–9 (Eng. Abstr.) (Ger)
[Delusions as a multidimensional phenomenon] Grzywa A. **Psychiatr Pol** 1989 Jul–Aug;23(4):278–86 (Eng. Abstr.) (Pol)

THERAPY

An uncontrolled study of cognitive therapy for morbid jealousy. Bishay NR, et al. **Br J Psychiatry** 1989 Mar; 154:386–9
Treating a woman who believes she has bugs under her skin [see comments] Frances A, et al. **Hosp Community Psychiatry** 1989 Nov;40(11):1113–4 Comment in: Hosp Community Psychiatry 1990 Apr;41(4):454.
Measurement and modification of delusional beliefs. Chadwick PD, et al. **J Consult Clin Psychol** 1990 Apr; 58(2):225–32

DEMECLOCYCLINE see **DEMETHYLCHLORTETRACYCLINE**

DEMECOLCINE

ANALYSIS

Determination of the antimitotic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine. Ko RJ, et al. **J Chromatogr** 1990 Feb 23;525(2):411–8

PHARMACOLOGY

Fibroblast contractility and actin organization are stimulated by microtubule inhibitors. Danowski BA. **J Cell Sci** 1989 Jun;93 (Pt 2):255–66
Inhibition and reversal of platelet activation by cytochalasin B or colcemid. Kay MM, et al. **Nature** 1973 Aug 3; 244(5414):288–9

TOXICITY

Aneuploidy induction in human fibroblasts: comparison with results in Syrian hamster fibroblasts. Tsutsui T, et al. **Mutat Res** 1990 Apr;240(4):241–9

DEMENTIA

Practical approach to managing behavioral problems in dementia patients. Knopman DS, et al. **Geriatrics** 1990 Apr; 45(4):27–30, 35
Case for biomedical priorities in dementia research [letter; comment] Weiner MF, et al. **Gerontologist** 1990 Feb; 30(1):141 Comment on: Gerontologist 1989 Oct;29(5):597–605.
Ethics and the patient with dementia. Shuman SK. **J Am Dent Assoc** 1989 Dec;119(6):747–8
Hospitalization rates in nursing home residents with dementia. A pilot study of the impact of a special care unit. Coleman EA, et al. **J Am Geriatr Soc** 1990 Feb; 38(2):108–12
The concept of "reversible" dementia. How nonreliable terminology may impair effective treatment. Maletta GJ. **J Am Geriatr Soc** 1990 Feb;38(2):136–40
[Civil rights for patients with severe dementia (editorial)] Borberg S. **Ugeskr Laeger** 1989 Oct 9;151(41):2641 (Dan)
[Approach to the dementia research] Tomonaga M. **Rinsho Shinkeigaku** 1989 Dec;29(12):1532–5 (10 ref.) (Eng. Abstr.) (Jpn)

BLOOD

Zinc—serum levels in dementia. Hronek J, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):125–6
Serum lipoprotein pattern variations in dementia and ischemic stroke. Giubilei F, et al. **Acta Neurol Scand** 1990 Jan;81(1):84–6
Glibenclamide steady state plasma levels during concomitant vinpocetine administration in type II diabetic patients. Grandt R, et al. **Arzneimittelforschung** 1989 Nov; 39(11):1451–4

CEREBROSPINAL FLUID

Determination of glial fibrillary acidic protein, S100, myelin basic protein and neuron specific enolase in cerebrospinal fluid from patients suffering from dementia. Vermuyten K. **Acta Neurol Belg** 1989 May–Oct;89(3–4):318
Analysis of monoamines in the cerebrospinal fluid of Chinese patients with neurological diseases. Liu HC, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Jul;44(1):1–6
CSF beta-endorphin, HVA and 5-HIAA of dementia of the Alzheimer type and Binswanger's disease in the elderly. Lee S, et al. **J Neural Transm Suppl** 1990;30:45–55
Cerebrospinal fluid levels of diazepam-binding inhibitor in neurodegenerative disorders with dementia. Ferrarese C, et al. **Neurology** 1990 Apr;40(4):632–5

CHEMICALLY INDUCED

Onset of dialysis encephalopathy in cyclosporine-treated renal allograft recipients. Hawley CM, et al. **Am J Kidney Dis** 1990 Apr;15(4):364–8
Interferon-related mental deterioration and behavioral changes in patients with renal cell carcinoma. Merimsky O, et al. **Eur J Cancer** 1990;26(5):596–600
White matter dementia in chronic toluene abuse. Filley CM, et al. **Neurology** 1990 Mar;40(3 Pt 1):532–4
[Reversible dementia syndrome due to chronic bromide poisoning caused by drugs (letter)] Habib M, et al. **Presse Med** 1989 Oct 7;18(31):1528 (Fre)

CLASSIFICATION

Histopathological classification of dementias by multivariate data analysis. Alafuzoff I, et al. **Prog Clin Biol Res** 1989; 317:295–301
[The definition of degenerative dementias according to the international system of classification] Gilles C. **Acta Neurol Belg** 1989 May–Oct;89(3–4):123–31 (Fre)

COMPLICATIONS

Treatment of depression in patients with dementia [letter; comment] [see comments] Lam RW. **Am J Psychiatry** 1990 Jan;147(1):130–1 Comment on: Am J Psychiatry 1989 Aug;146(8):1079. Comment in: Am J Psychiatry 1990 Jun;147(6):814.
Magnetic resonance imaging findings in HIV cognitive impairment. Kieburtz KD, et al. **Arch Neurol** 1990 Jun; 47(6):643–5
Coexisting dementia and depression in Parkinson's disease. Sano M, et al. **Arch Neurol** 1989 Dec;46(12):1284–6
Neurochemical correlates of major depression in primary dementia. Zubenko GS, et al. **Arch Neurol** 1990 Feb; 47(2):209–14
Lepromatous leprosy and dementia [letter] Mohamed KN. **Int J Lepr Other Mycobact Dis** 1990 Jun;58(2):381–2
Television: fantastic reality or realistic fantasy? [letter] Fulton JD, et al. **J Am Geriatr Soc** 1990 Jul;38(7):829
Incontinence among elderly community-dwelling dementia patients. Characteristics, management, and impact on caregivers. Ouslander JG, et al. **J Am Geriatr Soc** 1990 Apr;38(4):440–5
A metaanalysis of controlled trials of neuroleptic treatment in dementia. Schneider LS, et al. **J Am Geriatr Soc** 1990 May;38(5):553–63 (52 ref.)
A questionnaire investigation of anxiety and depression in early dementia. Wands K, et al. **J Am Geriatr Soc** 1990 May;38(5):535–8
Subacute dementia with necrotising encephalitis selectively involving the fornix and splenium. Retrograde development of Alzheimer's neurofibrillar tangles in the subiculum. Yamamoto T, et al. **J Neurol Sci** 1990 May; 96(2–3):159–72
Dementia and motoneurone disease. **Lancet** 1990 May 26; 335(8700):1250–2 (30 ref.)
Diffuse Lewy body disease with dementia and oculomotor dysfunction. Lewis AJ, et al. **Mov Disord** 1990;5(2):143–7
Peroneal palsy in patients with dementia. Massey EW. **N C Med J** 1981 Oct;42(10):711–2
Reversible dementia with idiopathic hypereosinophilic syndrome. Kaplan PW, et al. **Neurology** 1989 Oct; 39(10):1388–91

Dementia, rigidity and seizures in an adolescent boy [clinical conference] Butler IJ, et al. **Pediatr Neurosci** 1988; 14(6):307–14

Dementia and agitation in nursing home residents: how are they related? Cohen-Mansfield J, et al. **Psychol Aging** 1990 Mar;5(1):3–8

Leukoaraiosis and dementia [letter] Sacquegna T, et al. **Stroke** 1990 Mar;21(3):502

[Comparison study of positron emission tomography, X-ray CT and MRI in parkinsonism with dementia] Okada J, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 May 25; 49(5):643–56 (Eng. Abstr.) (Jpn)

[A case of dementia and periodic consciousness disorder (clinical conference)] **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):508–19 (Jpn)

DIAGNOSIS

A follow-up study of dementia diagnosed in the community using the Cambridge Mental Disorders of the Elderly Examination. O'Connor DW, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):78–82

Binswanger's disease or artifact: a clinical, neuroimaging, and pathological study of periventricular white matter changes in Alzheimer's disease. Morris JC, et al. **Adv Neurol** 1990; 51:47–52

The contribution of computerized tomography to the differential diagnosis of confusion in elderly patients. Roberts MA, et al. **Age Ageing** 1990 Jan;19(1):50–6

Diagnostic steps of dementia in the commentary by C.G. Gottfries [letter; comment] Jain KK, et al. **Alzheimer Dis Assoc Disord** 1989 Winter;3(4):228–30 Comment on: Alzheimer Dis Assoc Disord 1988;2(1):16–28.

Adult-onset adrenoleukodystrophy manifesting as dementia. Panegyres PK, et al. **Am J Med** 1989 Oct;87(4):481–3

Memory complaints and impairment in normal, depressed, and demented elderly persons identified in a community survey. O'Connor DW, et al. **Arch Gen Psychiatry** 1990 Mar;47(3):224–7

Evaluating dementia: what price testing? Gordon M, et al. **Can Med Assoc J** 1990 Jun 15;142(12):1367–70 (37 ref.)

Nonmetabolic causes of triphasic waves: a reappraisal. Aguglia U, et al. **Clin Electroencephalogr** 1990 Jul; 21(3):120–5

A new approach to the measurement of cognitive deficits in dementia. Christensen KJ. **Clin Geriatr Med** 1989 Aug; 5(3):519–30 (14 ref.)

Etiology, diagnosis, and management of dementia. Kokmen E. **Compr Ther** 1989 Sep;15(9):59–69 (26 ref.)

Clinical utility of long latency 'cognitive' event-related potentials (P3): the pros. Goodin DS. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):2–5; discussion 1 (18 ref.)

Clinical utility of long latency 'cognitive' event-related potentials (P3): the cons. Pfefferbaum A, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):6–12; discussion 1 (23 ref.)

The diagnosis of dementia: demographic characteristics. Coyne AC, et al. **Gerontologist** 1990 Jun;30(3):339–44

Depression with and without dementia. Reifler BV. **Hosp Pract [Off]** 1990 Apr 30;25(4A):47–51, 54, 59, passim

A desktop expert system for the differential diagnosis of dementia. An evaluation study. Plugge LA, et al. **Int J Technol Assess Health Care** 1990;6(1):147–56

Recognising dementia. Pathy J. **Ir Med J** 1989 Dec; 82(4):147–8

Validity and reliability of the dementia behavior disturbance scale. Baumgarten M, et al. **J Am Geriatr Soc** 1990 Mar; 38(3):221–6

Clock drawing and Alzheimer's disease [letter; comment] Miller DK. **J Am Geriatr Soc** 1990 Mar;38(3):388–9 Comment on: J Am Geriatr Soc 1989 Aug;37(8):730–4.

Straight or oblique? [letter] Pines A, et al. **J Am Geriatr Soc** 1989 Oct;37(10):1004

Are mental status questionnaires of clinical value in everyday office practice? An opposing view. Jones TV, et al. **J Fam Pract** 1990 Feb;30(2):197–200

Are mental status questionnaires of clinical value in everyday office practice? An affirmative view. Warshaw G. **J Fam Pract** 1990 Feb;30(2):194–7

Evaluation of cognitive impairment in the elderly. Ramsdell JW, et al. **J Gen Intern Med** 1990 Jan–Feb;5(1):55–64 (44 ref.)

Differential diagnosis of dementing diseases. Thomas DR. **J Miss State Med Assoc** 1989 Dec;30(12):391–4

General practitioners' detection of depression and dementia in elderly patients. Bowers J, et al. **Med J Aust** 1990 Aug 20;153(4):192–6

Validity of the Mini-Mental State examination as a screening instrument for cognitive impairment and dementia in French elderly community residents. Gagnon M, et al. **Neuroepidemiology** 1990;9(3):143–50

Dementia in the elderly. Tobias CR, et al. **Postgrad Med** 1989 Nov 1;86(6):97–8, 101–8 (21 ref.)

Diagnostic instruments differentiating dementia—depression. Kretschmar C, et al. **Prog Clin Biol Res** 1989;317:71–8 (15 ref.)

Clinical tests of memory in dementia, depression, and healthy aging. La Rue A, et al. **Psychol Aging** 1986 Mar;1(1):69–77

The Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE): socio-demographic correlates, reliability, validity and some norms. Jorm AF, et al. **Psychol Med** 1989 Nov;19(4):1015–22

[Diagnosis of the most frequent causes of dementia] Koukolík F. **Cesk Patol** 1989 Aug;25(3):167–72 (Eng. Abstr.) (Cze)

[Psychological diagnosis of dementia. Testing problems and clinical practice (letter)] Borberg S, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):178 (Dan)

[Diagnosis of dementia and the painter syndrome (letter)] Hyllested K. **Ugeskr Laeger** 1989 Oct 30;151(44):2903 (Dan)

[The diagnosis of dementia: current neurophysiological studies and brain mapping] De Wit P. **Acta Neurol Belg** 1989 May-Oct;89(3–4):141–9 (Dut)

[Consensus diagnosis in dementia syndromes (letter)] **Ned Tijdschr Geneeskd** 1989 Jul 15;133(28):1423–4 (0 ref.) (Dut)

[Diagnostic criteria of depressive pseudodementia] Azorin JM, et al. **Encephale** 1990 Jan–Feb;16(1):31–4 (Eng. Abstr.) (Fre)

[Symptoms of dementia misdiagnosed as psychosocial development disorder in congenital aqueduct stenosis] Schulze D, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Feb;42(2):107–12 (Eng. Abstr.) (Ger)

[Recent progress of neuro–imaging for the diagnosis of cerebrovascular disease and dementia] Torizuka K. **Rinsho Hoshasen** 1989 Oct;34(11):1355–7 (Jpn)

[Recent progress of neuro–imaging for the diagnosis of dementia] Watanabe K. **Rinsho Hoshasen** 1989 Oct; 34(11):1303–5 (Jpn)

[Pathophysiology of dementia and medical imaging] Yonekura Y. **Rinsho Hoshasen** 1989 Oct;34(11):1349–53 (Eng. Abstr.) (Jpn)

[Diagnosis of dementia in primary care] Valenciano R, et al. **Arch Neurobiol (Madr)** 1989 Jul–Aug;52(4):174–7 (Eng. Abstr.) (Spa)

[The Cambridge Mental Disorders of the Elderly Examination. Study of interobserver reliability] Llinàs J, et al. **Neurologia** 1990 Apr;5(4):121–4 (Eng. Abstr.) (Spa)

[The set-test for diagnosis of dementia] Pascual Millán LF, et al. **Neurologia** 1990 Mar;5(3):82–5 (Eng. Abstr.) (Spa)

[The Cambridge Mental Disorders of the Elderly Examination. Validation of the Spanish adaptation] Vilalta J, et al. **Neurologia** 1990 Apr;5(4):117–20 (Eng. Abstr.) (Spa)

DRUG THERAPY

Pharmacologic management of the symptoms of dementia. McDonald WM, et al. **Am Fam Physician** 1990 Jul; 42(1):123–32 (38 ref.)

Fluoxetine in the treatment of agitated dementia [letter] Sobin P, et al. **Am J Psychiatry** 1989 Dec;146(12):1636

Treatment of depressed dementia patients [letter; comment] Walsh AC. **Am J Psychiatry** 1990 Jun;147(6):814 Comment on: Am J Psychiatry 1990 Jan;147(1):130–1.

Drug treatments of dementia. Whalley LJ. **Br J Psychiatry** 1989 Nov;155:595–611 (187 ref.)

Antipsychotics. Phillipson M, et al. **Clin Geriatr Med** 1990 May;6(2):411–22 (32 ref.)

Antidepressants. Salzman C. **Clin Geriatr Med** 1990 May; 6(2):399–410 (33 ref.)

Acetyl-L-carnitine in the treatment of mildly demented elderly patients. Passeri M, et al. **Int J Clin Pharmacol Res** 1990;10(1–2):75–9

Neuropsychological changes in demented patients treated with acetyl-L-carnitine. Sinforiani E, et al. **Int J Clin Pharmacol Res** 1990;10(1–2):69–74

The pitfalls of metaanalysis [editorial] Grossberg GT. **J Am Geriatr Soc** 1990 May;38(5):607

Anticoagulation for dementia [letter; comment] Walsh AC. **J Am Geriatr Soc** 1990 Jun;38(6):726 Comment on: J Am Geriatr Soc 1989 Dec;37(12):1157–64.

L-acetyl-carnitine in Huntington's disease: double-blind placebo controlled crossover study of drug effects on movement disorder and dementia [letter] Goety CG, et al. **Mov Disord** 1990;5(3):263–5

Pharmacological treatment strategies in dementia disorders. Gottfries CG. **Pharmacopsychiatry** 1989 Oct;22 Suppl 2:129–34 (27 ref.)

Efficacy of xantinolnicotinate in patients with dementia. Kanowski S, et al. **Pharmacopsychiatry** 1990 May; 23(3):118–24

Psychopharmacological prospectives in the treatment of dementia. Antuono P, et al. **Prog Neuropsychopharmacol** 1979;3(1–3):75–80 (20 ref.)

Pharmacology of nootropics and metabolically active compounds in relation to their use in dementia. Nicholson CD. **Psychopharmacology (Berl)** 1990;101(2):147–59 (147 ref.)

[Neuropeptides and clinical application] Yoshida M. **Nippon Rinsho** 1990 May;48(5):1089–94 (Jpn)

ENZYMOLOGY

Serum creatine kinase BB isoenzyme levels in an epidemiological study of dementia and cognitive impairment. Brayne C, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):6–8

EPIDEMIOLOGY

Epidemiology of dementia disorders. Henderson AS. **Adv Neurol** 1990;51:15–25

Epidemiology of dementia: cross-cultural comparisons. Mortimer JA. **Adv Neurol** 1990;51:27–33

Prevalence rates of dementia [letter; comment] Clarke M, et al. **Age Ageing** 1990 May;19(3):229 Comment on: Age Ageing 1990 Mar;19(2):84–90.

Dementia with coexistent major depression. Greenwald BS, et al. **Am J Psychiatry** 1989 Nov;146(11):1472–8

The prevalence of dementia and Alzheimer's disease in Shanghai, China: impact of age, gender, and education. Zhang MY, et al. **Ann Neurol** 1990 Apr;27(4):428–37

Patterns of acquiring parkinsonism–dementia complex on Guam. 1944 through 1985. Zhang ZX, et al. **Arch Neurol** 1990 Sep;47(9):1019–24

Referral patterns of elderly patients with dementia or depression. McColl JH, et al. **Health Bull (Edinb)** 1989 Nov; 47(6):273–81

Characteristics of demented and nondemented geriatric admissions to a state hospital. Moak GS. **Hosp Community Psychiatry** 1990 Jul;41(7):799–801

Prevalence of clinically diagnosed Alzheimer's disease and other dementing disorders: a door-to-door survey in Appignano, Macerata Province, Italy. Rocca WA, et al. **Neurology** 1990 Apr;40(4):626–31

The health of elderly Chinese living in the community. Kua EH. **Singapore Med J** 1990 Apr;31(2):111–5

The ordered logistic regression model in psychiatry: rising prevalence of dementia in old people's homes. Ashby D, et al. **Stat Med** 1989 Nov;8(11):1317–26

Single-stage cluster sampling with a telescopic respondent rule: a variation motivated by a survey of dementia in elderly residents of Shanghai. Levy PS, et al. **Stat Med** 1989 Dec;8(12):1537–44

Dementia in stroke survivors in the Stroke Data Bank cohort. Prevalence, incidence, risk factors, and computed tomographic findings. Tatemichi TK, et al. **Stroke** 1990 Jun;21(6):858–66

[Clinical and epidemiological studies on inpatients with dementia] Hokezu Y, et al. **Nippon Ronen Igakkai Zasshi** 1990 Mar;27(2):188–92 (Eng. Abstr.) (Jpn)

ETIOLOGY

Neuropsychological findings in treated Wilson's disease. Lang C, et al. **Acta Neurol Scand** 1990 Jan;81(1):75–81

Neuropathological distinction between Parkinson's dementia and Parkinson's plus Alzheimer's disease. de la Monte SM, et al. **Ann Neurol** 1989 Sep;26(3):309–20

Immunohistochemical study of the striatal efferents and nigral dopaminergic neurons in parkinsonism–dementia complex on Guam in comparison with those in Parkinson's and Alzheimer's diseases. Goto S, et al. **Ann Neurol** 1990 May;27(5):520–7

Dementia in hereditary cerebral hemorrhage with amyloidosis–Dutch type. Haan J, et al. **Arch Neurol** 1990 Sep;47(9):965–7

Mental status abnormalities in temporal arteritis: a treatable cause of dementia in the elderly. Pascuzzi RM, et al. **Arthritis Rheum** 1989 Oct;32(10):1308–11

Psychiatric aspects of Parkinson's disease [letter; comment] Ebmeier KP, et al. **BMJ** 1989 Sep 9;299(6700):683 Comment on: BMJ 1989 Jul 1;299(6690):3–4.

Dementia, gait disturbance, incontinence and hydrocephalus. Chambers BR, et al. **Clin Exp Neurol** 1988;25:43–51

Dementia is not a diagnosis. Chiverton P. **Geriatr Nurs (New York)** 1990 Jan–Feb;11(1):24–5

The neuropsychology of de novo patients with idiopathic Parkinson's disease: the effects of age of onset. Reid WG, et al. **Int J Neurosci** 1989 Oct;48(3–4):205–17

Nutrition and dementia. Gray GE. **J Am Diet Assoc** 1989 Dec;89(12):1795–802 (91 ref.)

Severe head injury hastens age of onset of Alzheimer's disease. Gedye A, et al. **J Am Geriatr Soc** 1989 Oct; 37(10):970–3

Brain damage and open-heart surgery [letter; comment] Jackson M. **Lancet** 1989 Nov 4;2(8671):1096–7 Comment on: Lancet 1989 Aug 12;2(8659):364–6.

Dementias: the role of magnesium deficiency and an hypothesis concerning the pathogenesis of Alzheimer's disease. Glick JL. **Med Hypotheses** 1990 Mar;31(3):211–25 (87 ref.)

A pilot study of risk factors for dementia in Parkinson's disease. Marder K, et al. **Mov Disord** 1990;5(2):156–61

Women, myocardial infarction, and dementia in the very old. Aronson MK, et al. **Neurology** 1990 Jul;40(7):1102–6

Toluene dementia [letter] Gospe SM Jr. **Neurology** 1990 Aug; 40(8):1320–1

Adult-onset chorea and dementia with propionic acidemia. Sethi KD, et al. **Neurology** 1989 Oct;39(10):1343–5

Dementia in Huntington's disease is associated with neurochemical deficits in the caudate nucleus, not the cerebral cortex. Reynolds GP, et al. **Neurosci Lett** 1990 May 18;113(1):95–100

Compound Q tests challenged [news] **Occup Health Saf** 1989 Sep;58(10):60

Dementia in hereditary cystatin C amyloidosis. Blöndal H, et al. **Prog Clin Biol Res** 1989;317:157–64

Neuronal loss in the substantia nigra in patients with Alzheimer's disease and Parkinson's disease in relation to extrapyramidal symptoms and dementia. Rinne JO, et al. **Prog Clin Biol Res** 1989;317:325–32

Localized brucellosis: popliteal artery aneurysm, mediastinitis, dementia, and pneumonia. Gelfand MS, et al. **Rev Infect Dis** 1989 Sep–Oct;11(5):783–8

Frontal white matter lesions and dementia in lacunar infarction. Fukuda H, et al. **Stroke** 1990 Aug;21(8):1143–9

Dementia associated with stroke. Hershey LA. **Stroke** 1990 Sep;21(9 Suppl):II9–11 (24 ref.)

Dementia following brain grafting [letter; comment] Madrazo I, et al. **Transplantation** 1990 May;49(5):1026–7 Comment on: Transplantation 1989 Aug;48(2):348.

[Conference at the Salpêtrière. November 1988. Progressive dementia and generalized epilepsy in a young woman] Loiseau P, et al. **Rev Neurol (Paris)** 1990;146(5):383–9 **(Fre)**

[Dementia in hypothyroidism] Haupt M, et al. **Fortschr Neurol Psychiatr** 1990 May;58(5):175–7 (24 ref.) (Eng. Abstr.) **(Ger)**

[Progressive mental deterioration after radiotherapy in adult patients with brain tumors] Takeda N, et al. **Gan No Rinsho** 1989 Sep;35(11):1330–8 (Eng. Abstr.) **(Jpn)**

[Etiology and diagnosis of dementia] Matsushita M. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):491–5 **(Jpn)**

[Left antero–medial thalamic infarction and symptoms of amnesia, aphasia, and dementia] Ino T, et al. **Rinsho Shinkeigaku** 1989 Jun;29(6):693–700 (Eng. Abstr.) **(Jpn)**

[Dementia syndromes in hospitalized chronic schizophrenics (letter)] Lemańczyk W, et al. **Psychiatr Pol** 1989 Jul–Aug; 23(4):342 **(Pol)**

[Dementia caused by miliary cerebral metastasis of a hepatocarcinoma] Fontán A, et al. **Med Clin (Barc)** 1989 Oct 14;93(11):421–3 (Eng. Abstr.) **(Spa)**

[Dementia as an unique manifestation of vitamin B12 deficiency (letter)] Villanueva JL, et al. **Med Clin (Barc)** 1989 Nov 11;93(15):599 **(Spa)**

[Hereditary cerebral hemorrhage. Dementia with cystatin C amyloidosis] Blöndal H, et al. **Nord Med** 1990;105(3):76–7, 81 (Eng. Abstr.) **(Swe)**

GENETICS

Autosomal recessive ataxia, slow eye movements, dementia and extrapyramidal disturbances. al–Din AS, et al. **J Neurol Sci** 1990 May;96(2–3):191–205

History of dementia and Parkinson's disease in 1st–degree relatives of patients with Alzheimer's disease. Hofman A, et al. **Neurology** 1989 Dec;39(12):1589–92

Benign autosomal dominant syndrome of neuronal Charcot–Marie–Tooth disease, ptosis, parkinsonism, and dementia. Tandan R, et al. **Neurology** 1990 May;40(5):773–9 (13 ref.)

IMMUNOLOGY

Antibodies to axonal neurofilaments in Creutzfeldt–Jakob disease and other organic dementias. Mitrová E, et al. **Acta Virol (Praha)** 1989 Aug;33(4):371–4

METABOLISM

New aspects of the pathology of neurodegenerative disorders as revealed by ubiquitin antibodies. Leigh PN, et al. **Acta Neuropathol (Berl)** 1989;79(1):61–72

Nerve growth factor and the basal forebrain cholinergic system: a link in the etiopathology of neurodegenerative dementias? Perry EK. **Alzheimer Dis Assoc Disord** 1990; 4(1):1–13 (81 ref.)

Neurofibrillary tangles in some cases of dementia pugilistica share antigens with amyloid beta–protein of Alzheimer's disease. Allsop D, et al. **Am J Pathol** 1990 Feb; 136(2):255–60

Longitudinal study of cerebral metabolic asymmetries and associated neuropsychological patterns in early dementia of the Alzheimer type. Haxby JV, et al. **Arch Neurol** 1990 Jul;47(7):753–60

Cortical muscarinic receptors in demented patients with Alzheimer's disease or Parkinson's disease. Lange KW, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:817P

Alpha 1–adrenergic receptor binding sites in post–mortal human cerebral microvessel preparations: preservation in multi–infarct dementia and dementia of Alzheimer type. O'Neill C, et al. **J Neural Transm Park Dis Dement Sect** 1989;1(4):303–10

Neuropeptide levels in Alzheimer's disease and dementia with frontotemporal degeneration. Minthon L, et al. **J Neural Transm Suppl** 1990;30:57–67

Excitatory amino acid binding sites in the hippocampal region of Alzheimer's disease and other dementias. Penney JB, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr;53(4):314–20

[125I]–omega conotoxin binding to human frontal cortex from normal, Alzheimer's and non–Alzheimer's dementia patients. Colvin RA, et al. **Neurobiol Aging** 1990 Mar–Apr; 11(2):151–3

Deposition of amyloid (A4) protein within the brains of persons with dementing disorders other than Alzheimer's disease and Down's syndrome. Mann DM, et al. **Neurosci Lett** 1990 Feb 5;109(1–2):68–75

Neurochemical substrates of human aging and dementia. Mohr E, et al. **Pharmacopsychiatry** 1990 Feb;23 Suppl 2:53–5 (29 ref.)

[Cerebral glucose metabolism in dementia (PET–FDG study)] Hatazawa J, et al. **Rinsho Hoshasen** 1989 Oct; 34(11):1343–8 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Bovine spongiform encephalopathy [letter] **BMJ** 1990 Apr 7;300(6729):943–4

MORTALITY

Mortality from dementia in Norway, 1969–83. Flaten TP. **J Epidemiol Community Health** 1989 Sep;43(3):285–9

NURSING

Care plan approach to dementia. Harvis KA. **Geriatr Nurs (New York)** 1990 Mar–Apr;11(2):76–80

Wives, husbands, and daughters caring for institutionalized and noninstitutionalized dementia patients: toward a model of caregiver burden. Harper S, et al. **Int J Aging Hum Dev** 1990;30(4):241–62

A comparison between the care of vocally disruptive patients and that of other residents at psychogeriatric wards. Hallberg IR, et al. **J Adv Nurs** 1990 Apr;15(4):410–6

Psychotropic drug use among caregivers of patients with dementia. Clipp EC, et al. **J Am Geriatr Soc** 1990 Mar; 38(3):227–35

A randomized trial of family caregiver support in the home management of dementia. Mohide EA, et al. **J Am Geriatr Soc** 1990 Apr;38(4):446–54

The health of persons giving care to the demented elderly: a critical review of the literature. Baumgarten M. **J Clin Epidemiol** 1989;42(12):1137–48 (59 ref.)

Residential care for Australians with dementia. Pritchard R. **Med J Aust** 1990 Aug 20;153(4):206–7

Caregivers' experience of caring for severely demented patients. Norberg A, et al. **West J Nurs Res** 1990 Feb; 12(1):75–84

PATHOLOGY

Neuronal inputs to hippocampal formation in Alzheimer's disease and in parkinsonism–dementia complex on Guam. Goto S, et al. **Acta Neuropathol (Berl)** 1990;79(5):545–50

MR signal abnormalities in memory disorder and dementia. Bowen BC, et al. **AJR Am J Roentgenol** 1990 Jun; 154(6):1285–92

Cerebral amyloid angiopathy, recurrent intracerebral hemorrhage, and dementia in the elderly [clinical conference] Celestino FS, et al. **J Fam Pract** 1990 Jul; 31(1):21–2, 25–30

The occult aftermath of boxing. Roberts GW, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):373–8

Prion disease—spongiform encephalopathies unveiled. **Lancet** 1990 Jul 7;336(8706):21–2 (15 ref.)

Dementia lacking distinctive histologic features: a common non–Alzheimer degenerative dementia. Knopman DS, et al. **Neurology** 1990 Feb;40(2):251–6

Lewy bodies in tyrosine hydroxylase–synthesizing neurons of the human cerebral cortex. Kuljis RO, et al. **Neurosci Lett** 1989 Nov 20;106(1–2):49–54

Dementia with non–hereditary cystatin C angiopathy. Benedikz E, et al. **Prog Clin Biol Res** 1989;317:517–22

Cytometrical and immunocytochemical investigation of brain nuclei in dementia. Dom R, et al. **Prog Clin Biol Res** 1989; 317:375–81

[An autopsy case of multiple system atrophy with many senile plaques] Ohshima T, et al. **Rinsho Shinkeigaku** 1989 Nov; 29(11):1401–6 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Does kallikrein improve the brain function in dementia? Ishizuka Y, et al. **Adv Exp Med Biol** 1989;247B:601–6

Frontal lobe dementia of non–Alzheimer type. Gustafson L, et al. **Adv Neurol** 1990;51:65–71

Dementia in old age: identification of a clinically and pathologically distinct disease category. Perry RH, et al. **Adv Neurol** 1990;51:41–6

The natural history of dementia in Down's syndrome. Evenhuis HM. **Arch Neurol** 1990 Mar;47(3):263–7

Neuropsychological differences between the dementias of Alzheimer's and Parkinson's diseases. Huber SJ, et al. **Arch Neurol** 1989 Dec;46(12):1287–91

Cognition and white matter changes on magnetic resonance imaging in dementia. Kertesz A, et al. **Arch Neurol** 1990 Apr;47(4):387–91

Computerized electroencephalography in the evaluation of early dementia. Jordan SE, et al. **Brain Topogr** 1989 Summer;1(4):271–82

Waves earlier than P3 are more informative in putative subcortical dementias: a study with mapping and neuropsychological techniques. Verma NP, et al. **Brain Topogr** 1989 Spring;1(3):183–91

Diminished submandibular salivary flow in dementia of the Alzheimer type. Ship JA, et al. **J Gerontol** 1990 Mar; 45(2):M61–6

[Evaluation of social activity potential in dementia] Juva K, et al. **Duodecim** 1990;106(2):170–5 (28 ref.) **(Fin)**

[P300 and Hasegawa Dementia Rating Scale in cerebral infarction] Yamashita K, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):74–5 **(Jpn)**

PSYCHOLOGY

The effect of mild to moderate dementia on the Geriatric Depression Scale and on the General Health Questionnaire. O'Riordan TG, et al. **Age Ageing** 1990 Jan;19(1):57–61

Lorazepam treatment of resistive aggression in dementia [letter] Fritz J, et al. **Am J Psychiatry** 1990 Sep;147(9):1250

Psychiatric aspects of Parkinson's disease [letter; comment] **BMJ** 1989 Aug 5;299(6695):388–9 Comment on: **BMJ** 1989 Jul 1;299(6690):3–4.

Estimation of verbal intelligence in an elderly community: a prediction analysis using a shortened NART. Beardsall L, et al. **Br J Clin Psychol** 1990 Feb;29 (Pt 1):83–90

Major depression in Down's syndrome. Warren AC, et al. **Br J Psychiatry** 1989 Aug;155:202–5

Effects of atropine on learning and memory functions in dementia. Inzelberg R, et al. **Clin Neuropharmacol** 1990 Jun;13(3):241–7

Learning of a complex arithmetic skill in dementia: further evidence for a dissociation between compilation and production. McGlinchey–Berroth R, et al. **Cortex** 1989 Dec;25(4):697–705

Predictors and consequences of aggressive behavior by community–based dementia patients. Hamel M, et al. **Gerontologist** 1990 Apr;30(2):206–11

Impacts associated with special care units in long–term care facilities. Holmes D, et al. **Gerontologist** 1990 Apr; 30(2):178–83

Assessments of institutionalized dementia patients' competencies to participate in intimate relationships. Lichtenberg PA, et al. **Gerontologist** 1990 Feb;30(1):117–20

Severely demented elderly people. A case against senicide. Post SG. **J Am Geriatr Soc** 1990 Jun;38(6):715–8

Ethical aspects of dementia. Sachs GA, et al. **Neurol Clin** 1989 Nov;7(4):845–58

Different error pattern of episodic and semantic memory in Alzheimer's disease and Parkinson's disease with dementia. Helkala EL, et al. **Neuropsychologia** 1989;27(10):1241–8

Relationship of severity of dementia to caregiving stressors. Haley WE, et al. **Psychol Aging** 1989 Dec;4(4):389–92

Cross–cultural studies of dementia: use of a Chinese version of the Blessed–Roth Information–Memory–Concentration test in a Shanghai dementia survey. Jin H, et al. **Psychol Aging** 1989 Dec;4(4):471–9

[Too much or not enough in dementia] Hoff X. **Ann Med Psychol (Paris)** 1990 Jan;148(1):17–30 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

No difference in basal ganglia mineralization between schizophrenic and nonschizophrenic patients: a quantitative computerized tomographic study. Casanova MF, et al. **Biol Psychiatry** 1990 Jan 15;27(2):138–42

The relationship between enlargement of the temporal horns of the lateral ventricles and dementia in aging patients with Down syndrome. LeMay M, et al. **Neuroradiology** 1990; 32(2):104–7

[Problems in CT diagnosis of the aging brain] Kohlmeyer K. **Radiologe** 1989 Dec;29(12):584–91 (51 ref.) (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Cerebral muscarinic receptors in primary degenerative dementia as evaluated by SPECT with iodine–123–labeled QNB. Weinberger DR, et al. **Adv Neurol** 1990;51:147–50

Clinical–physiologic correlates of Alzheimer's disease and frontal lobe dementia. Jagust WJ, et al. **Am J Physiol Imaging** 1989;4(3):89–96

Positron emission tomographic scanning demonstrates a presynaptic dopaminergic lesion in Lytico–Bodig. The amyotrophic lateral sclerosis–parkinsonism–dementia complex of Guam. Snow BJ, et al. **Arch Neurol** 1990 Aug; 47(8):870–4

Single–photon emission computed tomography studies with 99mTc–hexamethylpropyleneamine oxime in dementia: effects of acute administration of L–acetylcarnitine. Battistin L, et al. **Eur Neurol** 1989;29(5):261–5

Focal high uptake of HM–PAO in brain perfusion studies: a clue in the diagnosis of encephalitis [clinical conference] Meyer MA. **J Nucl Med** 1990 Jun;31(6):1094–8

PET: studies in dementia. Frackowiak RS. **Psychiatry Res** 1989 Sep;29(3):353–5 (17 ref.)

Cerebral blood flow measured by SPECT as a diagnostic tool in the study of dementia. Gemmell HG, et al. **Psychiatry Res** 1989 Sep;29(3):327–9

Positron emission tomography as an imaging tool in psychiatric disorders. Heiss WD, et al. **Psychiatry Res** 1989 Sep;29(3):351–2

High resolution regional cerebral blood flow measurements in psychiatric disorders. Risberg J. **Psychiatry Res** 1989 Sep;29(3):297–300

Positron emission tomography in dementia. Friedland RP. **Semin Neurol** 1989 Dec;9(4):338–44 (59 ref.)

[Single–photon emission–computed tomography in the differential diagnosis of dementia] Deisenhammer E, et al. **Dtsch Med Wochenschr** 1989 Oct 27;114(43):1639–44 (Eng. Abstr.) **(Ger)**

[F–18 FDG PET in dementia] Ichiya Y. **Rinsho Hoshasen** 1989 Oct;34(11):1337–41 (Eng. Abstr.) **(Jpn)**

[Clinical application of brain perfusion SPECT imaging to dementia] Matsuda H. **Rinsho Hoshasen** 1989 Oct; 34(11):1327–35 (Eng. Abstr.) **(Jpn)**

REHABILITATION

Cognitive and emotional improvement in a group of dementia patients [letter; comment] Ballard C.

Acta Psychiatr Scand 1990 Jan;81(1):96 Comment on: Acta Psychiatr Scand 1989 Jan;79(1):41–7.
Do exercise programs aid demented elders? [news] Colling J, et al. Am J Nurs 1990 Mar;90(3):28L
The influence of a relative support group on carers' emotional distress. Russell V, et al. J Adv Nurs 1989 Oct;14(10):863–7

THERAPY

Effect of a training programme to reduce stress in carers of patients with dementia [see comments] Brodaty H, et al. BMJ 1989 Dec 2;299(6712):1375–9 Comment in: BMJ 1990 Feb 3;300(6720):330.
Sense and non-sense of a technological health care model in terminally ill demented patients. Hermans D, et al. J Palliat Care 1989 Dec;5(4):55–8
Dementia: physician approach to the caregiver's problems. Greene JA, et al. J Tenn Med Assoc 1989 Oct;82(10):535–7
'Normal'-pressure hydrocephalus and the saga of the treatable dementias [clinical conference] Friedland RP. JAMA 1989 Nov 10;262(18):2577–81
Group therapy with demented elderly. Krebs-Roubicek EM. Prog Clin Biol Res 1989;317:1261–72 (17 ref.)
Day care for demented patients in general nursing homes. Effects on admissions to institutions and mental capacity. Engedal K. Scand J Prim Health Care 1989 Oct;7(3):161–6

DEMENTIA, MULTI-INFARCT

[Multi-infarct dementia. Current knowledge concerning pathogenesis and therapy] Gelmini G, et al. G Clin Med 1989 Dec;70(12):763–6 (Ita)

BLOOD

Plasma apolipoproteins in patients with multi-infarct dementia. Shimano H, et al. Atherosclerosis 1989 Oct; 79(2–3):257–60
Plasma lipoprotein profiles and the distribution of high-density lipoprotein subfractions in the elderly: the effect of Alzheimer's disease and multi-infarct dementia. Van Rhijn A, et al. Biochem Soc Trans 1990 Apr;18(2):324

CEREBROSPINAL FLUID

Amino acid concentrations in cerebrospinal fluid in presenile and senile dementia of Alzheimer type and multi-infarct dementia. Degrell I, et al. Arch Gerontol Geriatr 1989 Sep–Oct;9(2):123–35 (34 ref.)

COMPLICATIONS

Coexistence of Alzheimer's disease and multi-infarct dementia diagnosed by functional brain imaging with SPECT. Timmons JH, et al. Clin Nucl Med 1990 Apr; 15(4):266–7

DIAGNOSIS

Magnetic resonance imaging in Alzheimer's disease, multi-infarct dementia, alcoholic dementia and Korsakoff's psychosis. Besson JA, et al. Acta Psychiatr Scand 1989 Nov; 80(5):451–8
Course characteristics in the differentiation of dementia of the Alzheimer type and multi-infarct dementia. Fischer P, et al. Acta Psychiatr Scand 1990 Jun;81(6):551–3
MR signal abnormalities in memory disorder and dementia. Bowen BC, et al. AJNR 1990 Mar–Apr;11(2):283–90
Progression of illness in the differential diagnosis of primary dementia. Zubenko GS. Am J Psychiatry 1990 Apr; 147(4):435–8
Multiinfarct and Alzheimer-type dementia investigated by transcranial Doppler sonography. Foerstl H, et al. Biol Psychiatry 1989 Oct;26(6):590–4
Improved detection of cognitive impairment with the NART: an investigation employing hierarchical discriminant function analysis. Crawford JR, et al. Br J Clin Psychol 1990 May;29 (Pt 2):239–41
Encoding preferences in memory in dementia. Taylor R, et al. Br J Clin Psychol 1990 May;29 (Pt 2):243–4
Pattern of language impairment is different in Alzheimer's disease and multi-infarct dementia. Kontiola P, et al. Brain Lang 1990 Apr;38(3):364–83
Interrater reliability of the Blessed Dementia Scale. Cole MG. Can J Psychiatry 1990 May;35(4):328–30
Single photon emission computed tomography (SPECT) and X-ray CT in patients with dementia. Deisenhammer E, et al. Psychiatry Res 1989 Sep;29(3):443–5
[Sonography of the cervical vessels. Value in the differential diagnosis of dementia syndromes] Müller M, et al. Fortschr Med 1989 Nov 30;107(34):733–5 (Eng. Abstr.) (Ger)
[Multi-infarct dementia in the very elderly (see comments)] Jazemirskaja RS. ZFA 1989 Nov–Dec;44(6):359–62 (Eng. Abstr.) Comment in: ZFA 1989 Nov–Dec;44(6):363–6. (Ger)
[How homogenous are clinical samples? Comments on the contribution by Raissa S. Jazemirskaja: Multi-infarct dementia in very elderly patients (comment)] Kuhlmey J. ZFA 1989 Nov–Dec;44(6):363–6 Comment on: ZFA 1989 Nov–Dec;44(6):359–62. (Ger)
[Cerebral white matter bundle alterations in patients with dementia of Alzheimer type and patients with multi-infarct dementia—magnetic resonance imaging study] Yoshii F, et al. Rinsho Shinkeigaku 1990 Jan;30(1):110–2 (Eng. Abstr.) (Jpn)

DRUG THERAPY

Effects of intravenous high dose co-dergocrine mesylate ('Hydergine') in elderly patients with severe multi-infarct dementia: a double-blind, placebo-controlled trial. Arrigo A, et al. Curr Med Res Opin 1989;11(8):491–500
Clinical and biochemical responses to therapy in Alzheimer's disease and multi-infarct dementia. Corona GL, et al. Eur Arch Psychiatry Neurol Sci 1989;239(2):79–86
Options for treatment for dementia patients [letter] Walsh AC. J Am Geriatr Soc 1990 Jul;38(7):829–30
Oxiracetam in the treatment of primary degenerative and multi-infarct dementia: a double-blind, placebo-controlled study. Maina G, et al. Neuropsychobiology 1989;21(3):141–5
Neuropsychological results of long-term therapy with oxiracetam in patients with dementia of Alzheimer type and multi-infarct dementia in comparison with a control group. Parnetti L, et al. Neuropsychobiology 1989; 22(2):97–100

ETIOLOGY

Nonmedical complications of diagnostic workup for dementia [clinic conference] [see comments] Rhymes JA, et al. J Am Geriatr Soc 1989 Dec;37(12):1157–64 Comment in: J Am Geriatr Soc 1990 Jun;38(6):726.
Giant cell (temporal) arteritis: a treatable cause of multi-infarct dementia. Caselli RJ. Neurology 1990 May; 40(5):753–5

IMMUNOLOGY

[Multi-infarct dementia associated with antiphospholipid antibodies. Presentation of 2 cases] Montalbán J, et al. Med Clin (Barc) 1989 Oct 14;93(11):424–6 (Eng. Abstr.) (Spa)

METABOLISM

In vivo 31P NMR profiles of Alzheimer's disease and multiple subcortical infarct dementia. Brown GG, et al. Neurology 1989 Nov;39(11):1423–7

MORTALITY

Mortality of demented patients in a geriatric institution. Belloni-Sonzogni A, et al. Arch Gerontol Geriatr 1989 Sep–Oct;9(2):193–7
Predictors of survival in clinically diagnosed Alzheimer's disease and multi-infarct dementia. Hier DB, et al. Arch Neurol 1989 Nov;46(11):1213–6
Prediction of survival by the Clifton Assessment Procedures for the Elderly (CAPE). Moran SM, et al. Br J Clin Psychol 1990 May;29 (Pt 2):225–6

PATHOLOGY

Neuropathologic correlates of leuko-araiosis [published erratum appears in Arch Neurol 1990 Mar;47(3):281] Janota I, et al. Arch Neurol 1989 Oct;46(10):1124–8
A radiologic study of dynamic processes in lacunar dementia. Tanaka Y, et al. Stroke 1989 Nov;20(11):1488–93

PHYSIOPATHOLOGY

White matter lucencies in multi-infarct dementia: a somatosensory evoked potentials and CT study. Kato H, et al. Acta Neurol Scand 1990 Feb;81(2):181–3
Correlation between carotid blood flow and brain atrophy in patients with multi-infarct dementia. Yamashita K, et al. Gerontology 1989;35(4):192–7
Brainstem auditory evoked potentials in patients with multi-infarct dementia and dementia of the Alzheimer type. Tachibana H, et al. Int J Neurosci 1989 Oct;48(3–4):325–31
[Triphasic waves in dementia syndromes] Primavera A, et al. Riv Neurol 1989 Jul–Aug;59(4):146–9 (Eng. Abstr.) (Ita)
[Cerebral hemodynamics in multiple cerebral infarction with or without dementia] Kitamura S, et al. Nippon Ronen Igakkai Zasshi 1989 Nov;26(6):557–62 (Eng. Abstr.) (Jpn)

PSYCHOLOGY

Eating habits in dementia. A descriptive study. Morris CH, et al. Br J Psychiatry 1989 Jun;154:801–6
Insight for impairment in independent living skills in Alzheimer's disease and multi-infarct dementia. DeBettignies BH, et al. J Clin Exp Neuropsychol 1990 Mar; 12(2):355–63

RADIOGRAPHY

[Clinical study of watershed infarct dementia] Kono K, et al. Nippon Ronen Igakkai Zasshi 1989 May;26(3):265–71 (Eng. Abstr.) (Jpn)

RADIONUCLIDE IMAGING

Sensitivity and specificity of positron emission tomography and magnetic resonance imaging studies in Alzheimer's disease and multi-infarct dementia. Duara R, et al. Eur Neurol 1989;29 Suppl 3:9–15

REHABILITATION

The effect of prompting and reinforcement of activity in elderly demented inpatients. Götestam KG, et al. Scand J Psychol 1990;31(1):2–8

DEMENTIA PRAECOX see SCHIZOPHRENIA

DEMENTIA, PRESENILE

[Degenerative dementias. A joint meeting of the Belgian Neurological Society and the Belgian Society for Mental Medicine. 11 March 1989. Proceedings] Acta Neurol Belg 1989 May–Oct;89(3–4):117–321 (Fre)

COMPLICATIONS

Early dementia as a risk factor for suicide. Margo GM, et al. Hosp Community Psychiatry 1990 Jun;41(6):676–8
Delusional depression responding to clomipramine in Binswanger's disease. Turkington D, et al. J Nerv Ment Dis 1990 Jul;178(7):459–60
The utility of cerebral blood flow imaging in patients with the unique syndrome of progressive dementia with motor neuron disease. Ohnishi T, et al. J Nucl Med 1990 May; 31(5):688–91

DIAGNOSIS

Cognitive test profile analysis for the identification of dementia of the Alzheimer type. Christensen KJ, et al. Alzheimer Dis Assoc Disord 1990 Summer;4(2):96–109
Cerebrotendinous xanthomatosis: clinical and MRI study (a case report). Fiorelli M, et al. J Neurol Neurosurg Psychiatry 1990 Jan;53(1):76–8
Magnetic resonance imaging in dementia of Parkinson's disease. Huber SJ, et al. J Neurol Neurosurg Psychiatry 1989 Nov;52(11):1221–7
Frontal lobe dementia and motor neuron disease. Neary D, et al. J Neurol Neurosurg Psychiatry 1990 Jan;53(1):23–32
A case of progressive aphasia without dementia: "temporal" Pick's disease? Scheltens P, et al. J Neurol Neurosurg Psychiatry 1990 Jan;53(1):79–80
[The contribution of computerized tomography and MRI in the diagnosis of degenerative dementia] Baleriaux D, et al. Acta Neurol Belg 1989 May–Oct;89(3–4):156–60 (Eng. Abstr.) (Fre)
[Language disorders in Huntington disease] Caspary P, et al. Nervenarzt 1990 Jul;61(7):385–9 (46 ref.) (Ger)
[Diagnosis of dementia] Engedal K. Tidsskr Nor Laegeforen 1990 Jan 30;110(3):384 (Nor)
[Prognosis of mild dementia based on catamnestic study of the population] Gavrilova SI, et al. Zh Nevropatol Psikhiatr 1989;89(9):73–8 (Eng. Abstr.) (Rus)
[Neuropsychological exploration in dementia: presentation of a neuropsychologic battery in the study of Alzheimer's disease] Gil i Saladié D, et al. Actas Luso Esp Neurol Psiquiatr Cienc Afines 1990 Jan–Feb;18(1):47–53 (Eng. Abstr.) (Spa)

DRUG THERAPY

Oxiracetam in the treatment of primary degenerative and multi-infarct dementia: a double-blind, placebo-controlled study. Maina G, et al. Neuropsychobiology 1989;21(3):141–5
[Comparative clinico-therapeutic study of amitriptyline hydrochloride (Tryptizol/amitriptyline)] Pirozynski T, et al. Rev Med Chir Soc Med Nat Iasi 1989 Jan–Mar; 93(1):91–102 (Eng. Abstr.) (Rum)

ETIOLOGY

Vitamin B12 and geriatrics: unanswered questions. Thompson WG, et al. Acta Haematol (Basel) 1989;82(4):169–74 (53 ref.)
Paretic neurosyphilis and cerebral gumma. Case report. Tonelli L, et al. J Neurosurg Sci 1989 Oct–Dec; 33(4):319–22

GENETICS

[Primary degeneration of the thalamus with dementia—2 cases with family background] Goecke-Hoyer G, et al. Fortschr Neurol Psychiatr 1990 Jul;58(7):262–9 (Eng. Abstr.) (Ger)

HISTORY

[Degenerative dementias: historical foundations] De Smet Y, et al. Acta Neurol Belg 1989 May–Oct;89(3–4):216–25 (Fre)

METABOLISM

Immunocytochemical and ultrastructural studies of Pick's disease. Murayama S, et al. Ann Neurol 1990 Apr; 27(4):394–405
A high ratio of chromogranin A to synaptin/synaptophysin is a common feature of brains in Alzheimer and Pick disease. Weiler R, et al. FEBS Lett 1990 Apr 24; 263(2):337–9
[Modifications in neurotransmission in degenerative dementia] Maloteaux JM. Acta Neurol Belg 1989 May–Oct; 89(3–4):186–93 (32 ref.) (Fre)

NURSING

[Therapeutic management and care in the family milieu] Meire P. **Acta Neurol Belg** 1989 May–Oct;89(3–4):209–15 **(Fre)**

PATHOLOGY

Contribution of stereotactic brain biopsies to the diagnosis in several cases of dementia. Waltregny A, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):161–7

Involvement of the locus coeruleus in Pick's disease with or without Pick body formation. Arima K, et al. **Acta Neuropathol (Berl)** 1990;79(6):629–33

Pick bodies in the locus ceruleus. Forno LS, et al. **Acta Neuropathol (Berl)** 1989;79(1):10–7

Dementia and Parkinson's disease. Gibb WR. **Br J Psychiatry** 1989 May;154:596–614 (215 ref.)

Decrease in nerve fibres in cerebral white matter in progressive subcortical vascular encephalopathy of Binswanger type. An electron microscopic study. Yamanouchi H, et al. **J Neurol** 1989 Oct;236(7):382–7

Diffuse Lewy body disease: correlative neuropathology using anti-ubiquitin immunocytochemistry. Lennox G, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1236–47

Neuronal alterations in patients with dementia: a Golgi study on biopsy samples. Ferrer I, et al. **Neurosci Lett** 1990 Jun 22;114(1):11–6

[Cerebral morphological changes in degenerative dementia] Flament-Durand J, et al. **Acta Neurol Belg** 1989 May–Oct; 89(3–4):179–85 **(Fre)**

[Meningioma in psychiatry. Clinico-pathologic contribution to differential cerebral organic psychosyndrome diagnosis in middle and advanced age] Vieregge P, et al. **Schweiz Arch Neurol Psychiatr** 1990;141(3):269–81 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Progressive aphasia in a patient with Pick's disease: a neuropsychological, radiologic, and anatomic study. Graff-Radford NR, et al. **Neurology** 1990 Apr;40(4):620–6

Focal Alzheimer's disease. Jagust WJ, et al. **Neurology** 1990 Jan;40(1):14–9

[Persistent alpha-vegetative state] Oliveira-Souza R, et al. **Arq Neuropsiquiatr** 1989 Jun;47(2):212–23 (111 ref.) (Eng. Abstr.) **(Por)**

PSYCHOLOGY

A dementia syndrome of dependency? [published erratum appears in Br J Psychiatry 1989 Oct;155:566–7] [see comments] Howells R, et al. **Br J Psychiatry** 1989 Jun; 154:872–6 Comment in: Br J Psychiatry 1989 Dec;155:870–1.

Dementia of frontal lobe type. Neary D. **J Am Geriatr Soc** 1990 Jan;38(1):71–2 (9 ref.)

Visuospatial working memory in Parkinson's disease. Bradley VA, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov; 52(11):1228–35

[The diagnosis of degenerative dementia: neuropsychological studies] Thiery E. **Acta Neurol Belg** 1989 May–Oct; 89(3–4):135–40 **(Dut)**

[Comparative psychological test studies of the intellectual ability of Parkinson patients] Russ M, et al. **Nervenarzt** 1990 Feb;61(2):88–93 (Eng. Abstr.) **(Ger)**

[Episodic manifestation of hemiparkinson syndrome with severe dementia personality change and precursors of paranoid hallucination symptoms] Postrach F. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Sep; 41(9):539–44 (Eng. Abstr.) **(Ger)**

[Prognosis of mild dementia based on catamnestic study of the population] Gavrilova SI, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):73–8 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

[Diagnosis of senile dementia using the method of computerized tomography] Medvedev AV, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):85–91 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Positron emission tomography in degenerative dementias. Salmon E, et al. **Acta Neurol Belg** 1989 May–Oct; 89(3–4):150–5

Binswanger's disease: a review of the literature and a personal contribution. Sacquegna T, et al. **Eur Neurol** 1989;29 Suppl 2:20–2 (19 ref.)

Scinticisternography in presenile and senile degenerative disease. Brusa G, et al. **Ital J Neurol Sci** 1990 Feb; 11(1):43–7

[123I-IMP-SPECT finding of a case of presenile dementia with motor neuron disease—comparison between Alzheimer's disease, Pick's disease and presenile dementia with motor neuron disease] Mitsuyama Y. **Seishin Shinkeigaku Zasshi** 1989;91(7):500–11 (Eng. Abstr.) **(Jpn)**

REHABILITATION

The effect of prompting and reinforcement of activity in elderly demented inpatients. Götestam KG, et al. **Scand J Psychol** 1990;31(1):2–8

THERAPY

[Therapeutic management and care in psychiatric institutions] Ylieff M. **Acta Neurol Belg** 1989 May–Oct;89(3–4):198–208 **(Fre)**

DEMENTIA, PRIMARY DEGENERATIVE, PRESENILE see **DEMENTIA, PRESENILE**

DEMENTIA, PRIMARY DEGENERATIVE, SENILE see **DEMENTIA, SENILE**

DEMENTIA, SENILE

Caregiver needs and patterns of social support. Clipp EC, et al. **J Gerontol** 1990 May;45(3):S102–11

[Degenerative dementias. A joint meeting of the Belgian Neurological Society and the Belgian Society for Mental Medicine. 11 March 1989. Proceedings] **Acta Neurol Belg** 1989 May–Oct;89(3–4):117–321 **(Fre)**

BLOOD

Amino acid levels in elderly nursing home residents. Katz IR, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec; 2(4):215–22

[Value of vitamin B 12 assay in presumed degenerative dementia (letter)] De la Fournière F, et al. **Presse Med** 1989 Oct 14;18(33):1664 **(Fre)**

[Serum zinc levels in various mental disorders] Gronek I, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):126–7 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Characterization of the course of senile dementia of the Alzheimer type using cerebrospinal fluid levels of acetylcholinesterase and somatostatin. Urakami K, et al. **Acta Neurol Scand** 1989 Sep;80(3):232–7

Cerebrospinal fluid somatostatin in delirium. Koponen H, et al. **Psychol Med** 1989 Aug;19(3):605–9

CLASSIFICATION

Misclassification of "probable senile dementia—Alzheimer's type" in the Baltimore Longitudinal Study of Aging. Arenberg D. **J Clin Epidemiol** 1990;43(1):105–7

COMPLICATIONS

Absence of familial association between dementia of Alzheimer type and Down syndrome. Berr C, et al. **Am J Med Genet** 1989 Aug;33(4):545–50

Dexamethasone aerosol use in an asthmatic nursing-home patient with Parkinson's disease and dementia. Hoffman NB, et al. **DICP** 1990 Jul–Aug;24(7–8):707–8

[Several ultrastructural peculiarities of the fascia transversalis in direct inguinal hernias of senile men] Nikolov S, et al. **Anat Anz** 1990;170(3–4):265–72 (Eng. Abstr.) **(Ger)**

[Clinical study of chronic subdural hematoma and hygroma in two hospitals for elderly patients with dementia] Kono K, et al. **Nippon Ronen Igakkai Zasshi** 1989 Jul;26(4):367–74 (Eng. Abstr.) **(Jpn)**

[Chronic subdural hematoma occurring in patients with senile dementia: report of 4 cases] Nishimura K, et al. **No Shinkei Geka** 1989 Jul;17(7):669–72 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

The association of education and socioeconomic status with the Mini Mental State Examination and the clinical diagnosis of dementia in elderly people. Brayne C, et al. **Age Ageing** 1990 Mar;19(2):91–6

Computed tomography, electroencephalography, and clinical features in the differential diagnosis of senile dementia. A prospective clinicopathologic study. Ettlin TM, et al. **Arch Neurol** 1989 Nov;46(11):1217–20

Cerebral white matter disease in late-onset paranoid psychosis. Breitner JC, et al. **Biol Psychiatry** 1990 Aug 1;28(3):266–74

Gender differences in TRH-stimulated TSH and prolactin in primary degenerative dementia and elderly controls. Dysken MW, et al. **Biol Psychiatry** 1990 Jul 15;28(2):144–50

Cortisol, ACTH, and beta-endorphin after dexamethasone administration in Parkinson's dementia. Rabey JM, et al. **Biol Psychiatry** 1990 Mar 15;27(6):581–91

Syphilis serology screening in a psychogeriatric population. Is the effort worthwhile? [see comments] Boodhoo JA. **Br J Psychiatry** 1989 Aug;155:259–62 Comment in: Br J Psychiatry 1989 Nov;155:714–5. Comment in: Br J Psychiatry 1990 Feb;156:283–4.

Brain white-matter lesions and psychosis. Miller BL, et al. **Br J Psychiatry** 1989 Jul;155:73–8

Mania in the elderly [see comments] Stone K. **Br J Psychiatry** 1989 Aug;155:220–4 Comment in: Br J Psychiatry 1989 Dec;155:871–2.

Non-cognitive symptoms and the diagnosis of dementia. Historical and clinical aspects. Berrios GE. **Br J Psychiatry Suppl** 1989 May;(4):11–6 (71 ref.)

The picture absurdities test in the evaluation of dementia. Shuttleworth EC, et al. **Brain Cogn** 1989 Sep;11(1):50–9

Financial and personal competence in the elderly. The position of the Canadian Psychiatric Association. MacKay MJ. **Can J Psychiatry** 1989 Nov;34(8):829–36 **(Eng, Fre)**

Neuroimaging and affective disorder in late life: a review. Morris P, et al. **Can J Psychiatry** 1990 May;35(4):347–54 (112 ref.)

Electrophysiological techniques in the assessment of aging brain: lacunar state and differential diagnosis. Onofrij M, et al. **Eur Neurol** 1989;29 Suppl 2:44–7 (10 ref.)

Geriatric and nongeriatric psychiatry consultation. A comparison study. Levitte SS, et al. **Gen Hosp Psychiatry** 1989 Sep;11(5):339–44

Cognitive impairment among geropsychiatric outpatients. Balster GA, et al. **Hosp Community Psychiatry** 1990 May; 41(5):556–8

Psychogeriatric assessment and treatment in urban public housing. Roca RP, et al. **Hosp Community Psychiatry** 1990 Aug;41(8):916–20

Early differentiation of senile dementias. Cadieux RJ. **Hosp Pract [Off]** 1989 Dec 15;24(12):77–84, 87–90, 93–4 (10 ref.)

Cross-validation of a dementia screening test in a heterogeneous population. Ritchie KA, et al. **Int J Epidemiol** 1989 Sep;18(3):717–9

The effect of age of onset on depression in the elderly. Herrmann N, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec;2(4):182–7

Magnetic resonance imaging in dementia of Parkinson's disease. Huber SJ, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1221–7

Dementia: the importance of clinical evaluation, autopsy confirmation, and research. Brumback RA, et al. **J Okla State Med Assoc** 1990 Mar;83(3):109–18 (64 ref.)

Morphological diagnosis of vascular and senile dementia (the importance of cerebral congophilic angiopathy). Geinisman RV, et al. **Neurosci Behav Physiol** 1989 Nov–Dec; 19(6):488–93

Geriatric assessment programs benefit dementia patients and their families. Garry NF. **Prog Clin Biol Res** 1989; 317:95–102

The relationship between cognitive impairment plasma cortisol levels and HPA responsibility to dexamethasone in dementia. Gurevitch D, et al. **Prog Clin Biol Res** 1989; 317:175–87

Laboratory diagnostic tests for Alzheimer's disease. Iqbal K, et al. **Prog Clin Biol Res** 1989;317:679–87 (29 ref.)

Dementia and depression in elders with mental retardation: a pilot study. Harper DC, et al. **Res Dev Disabil** 1990; 11(2):177–98

Alzheimer's disease as a diagnosis of exclusion [clinical conference] Keefover RW. **W V Med J** 1990 Feb;86(2):51–5

[The contribution of computerized tomography and MRI in the diagnosis of degenerative dementia] Baleriaux D, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):156–60 (Eng. Abstr.) **(Fre)**

[The value of cognitive evoked potentials in the diagnosis of senile dementia and dementia of Parkinson disease] Uytdenhoef P, et al. **Acta Neurol Belg** 1989 May–Oct; 89(3–4):258–65 (Eng. Abstr.) **(Fre)**

[Nursing care, legal incapacitation, guardianship. Basic principles of legal reform] Baer R. **Fortschr Med** 1990 Mar 30;108(9):173–5 (Eng. Abstr.) **(Ger)**

[Speech changes in dementia] Benke T, et al. **Fortschr Neurol Psychiatr** 1990 Jun;58(6):215–23 (123 ref.) (Eng. Abstr.) **(Ger)**

[Gerontopsychiatry—psychiatry for the aged] Krebs-Roubicek EM. **Ther Umsch** 1990 Mar;47(3):201–8 (17 ref.) (Eng. Abstr.) **(Ger)**

[Reliability and validity of the Japanese version of the GBS scale] Homma A, et al. **Nippon Ronen Igakkai Zasshi** 1989 Nov;26(6):617–23 (Eng. Abstr.) **(Jpn)**

[EEG background activity in patients with dementia of the Alzheimer type—with special reference to analysis by t-statistic significance probability mapping (SPM) in Alzheimer's disease and senile dementia] Miyauchi T, et al. **Seishin Shinkeigaku Zasshi** 1989;91(4):244–59 (Eng. Abstr.) **(Jpn)**

[Plural diagnosis of senile dementia—special reference to the relationship with depression] Oomori K, et al. **Seishin Shinkeigaku Zasshi** 1989;91(10):770–5 **(Jpn)**

[Diagnosis of dementia] Engedal K. **Tidsskr Nor Laegeforen** 1990 Jan 30;110(3):384 **(Nor)**

[Depression and reversible dementia in old age] Krzymiński S. **Psychiatr Pol** 1989 May–Jun;23(3):209–16 (34 ref.) **(Pol)**

[Prognosis of mild dementia based on catamnestic study of the population] Gavrilova SI, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):73–8 (Eng. Abstr.) **(Rus)**

[Clinical picture of initial manifestations and the characteristics of the subsequent course of senile dementia] Kalyn IaB. **Zh Nevropatol Psikhiatr** 1989;89(9):78–85 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Controlled study of the effect of pyritinol in geronto-patients. Slánská J. **Act Nerv Super (Praha)** 1990 Mar;32(1):57–8

Mental and physical capacity and consumption of neuroleptic drugs in residents of homes for aged people. Nygaard HA, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):170–3

Update in geriatric psychopharmacology. Meyers BS, et al. **Adv Psychosom Med** 1989;19:114–37 (141 ref.)

Treatment of the classical manifestations of dementia and confusion. Whalley LJ, et al. **Br Med Bull** 1990 Jan; 46(1):169–80 (41 ref.)

Pharmacological approaches in the treatment of senile

dementia. Markstein R. Eur Neurol 1989;29 Suppl 3:33–41 (91 ref.)
Questions raised on efficacy of vitamin B-12 therapy for patients with dementia [letter] Moran MB, et al. J Am Diet Assoc 1990 Aug;90(8):1055
Striatal dopamine D2 receptors in tardive dyskinesia: PET study. Blin J, et al. J Neurol Neurosurg Psychiatry 1989 Nov;52(11):1248–52
PET for dementia drug test [news] Swinbanks D. Nature 1990 Feb 8;343(6258):498
Oxiracetam in the treatment of primary degenerative and multi-infarct dementia: a double-blind, placebo-controlled study. Maina G, et al. Neuropsychobiology 1989;21(3):141–5
Glycosaminoglycan polysulfate (Arteroid) in old-age dementias: effects upon depressive symptomatology in geriatric patients. Conti L, et al. Prog Neuropsychopharmacol Biol Psychiatry 1989; 13(6):977–81
Muscarinic agonists for senile dementia: past experience and future trends. Gray JA, et al. Trends Pharmacol Sci 1989 Dec;Suppl:85–8 (18 ref.)
[Treatment with nootropic drugs] Barocka A. Fortschr Med 1990 Mar 30;108(9):178–80 (13 ref.) (Eng. Abstr.) (Ger)
[Drug therapy of disorders of cerebral performance. Randomized comparative study of dihydroergotoxine and Ginkgo biloba extract] Gerhardt G, et al. Fortschr Med 1990 Jun 30;108(19):384–8 (Eng. Abstr.) (Ger)
[Methodological premises of statistical analysis of the data] Bamfi F, et al. Clin Ter 1990 Mar 31;132(6 Suppl):475–8 (Eng. Abstr.) (Ita)
[Effects of L-acetylcarnitine on mental deterioration in the aged: initial results] Cipolli C, et al. Clin Ter 1990 Mar 31;132(6 Suppl):479–510 (Eng. Abstr.) (Ita)
[Use of flunarizine in mild-to-severe senile cerebral deterioration] Fasullo S, et al. Clin Ter 1990 Mar 31; 132(6):379–82 (Eng. Abstr.) (Ita)
[A controlled clinical study on the efficacy of L-acetylcarnitine in the treatment of mild-to-moderate mental deterioration in the aged. Conclusions] Genazzani E. Clin Ter 1990 Mar 31;132(6 Suppl):511–2 (Ita)
[Methodology of a clinical controlled study of L-acetylcarnitine] Neri M, et al. Clin Ter 1990 Mar 31; 132(6 Suppl):457–68 (Eng. Abstr.) (Ita)
[Aging of the population: the 2d demographic revolution] Recchia G. Clin Ter 1990 Mar 31;132(6 Suppl):443–50 (Eng. Abstr.) (Ita)
[Center monitoring and management of data bases] Roncolato M, et al. Clin Ter 1990 Mar 31;132(6 Suppl):469–73 (Eng. Abstr.) (Ita)
[Clinical development of a drug for brain aging. Current limitations and future prospects] Zerbini O, et al. Clin Ter 1990 Mar 31;132(6 Suppl):451–5 (Eng. Abstr.) (Ita)
[Effect of CDP-choline on senile mental deterioration. Multicenter experience on 237 cases] Serra F, et al. Minerva Med 1990 Jun;81(6):465–70 (Eng. Abstr.) (Ita)
[Therapy of moderate senile dementia using psychotropic drugs and cerebral function improving agents] Shimizu N, et al. Seishin Shinkeigaku Zasshi 1989;91(10):776–82 (Jpn)

ENZYMOLOGY

[BB creatine kinase isoenzyme activity in the blood serum of patients with senile dementia, Alzheimer's disease and schizophrenia] Aksenova MV, et al. Zh Nevropatol Psikhiatr 1989;89(9):113–6 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

Mental disability among elderly men in Finland: prevalence, predictors and correlates. Lammi UK, et al. Acta Psychiatr Scand 1989 Nov;80(5):459–68
The prevalence of cognitive impairment in an elderly Canadian population. Robertson D, et al. Acta Psychiatr Scand 1989 Oct;80(4):303–9
Prevalence rates of dementia in an ageing population: are low rates due to the use of insensitive instruments? [see comments] Black SE, et al. Age Ageing 1990 Mar; 19(2):84–90 Comment in: Age Ageing 1990 Mar;19(2):81–3. Comment in: Age Ageing 1990 May;19(3):229.
Suitable instruments for detecting dementia in community samples [comment] Copeland JR. Age Ageing 1990 Mar; 19(2):81–3 Comment on: Age Ageing 1990 Mar;19(2):84–90.
Dementia, depression and physical disability in a London borough: a survey of elderly people in and out of residential care and implications for future developments. Harrison R, et al. Age Ageing 1990 Mar;19(2):97–103
Screening the elderly in the community for psychiatric disorder. Mowry BJ, et al. Aust N Z J Psychiatry 1990 Jun;24(2):203–6
Estimation of verbal intelligence in an elderly community: an epidemiological study using NART. Brayne C, et al. Br J Clin Psychol 1990 May;29 (Pt 2):217–23
An epidemiological study of dementia in a rural population of elderly women. Brayne C, et al. Br J Psychiatry 1989 Aug;155:214–9
The epidemiology of depression in late life [see comments] Blazer D. J Geriatr Psychiatry 1989;22(1):35–52 (37 ref.) Comment in: J Geriatr Psychiatry 1989;22(1):67–75.
The epidemiologic face of late-life depression [comment] Murphy JM. J Geriatr Psychiatry 1989;22(1):67–75 Comment on: J Geriatr Psychiatry 1989;22(1):35–52. Comment on: J Geriatr Psychiatry 1989;22(1):53–65.
The Gospel Oak Study: prevalence rates of dementia, depression and activity limitation among elderly residents in inner London. Livingston G, et al. Psychol Med 1990 Feb;20(1):137–46
[Advances in epidemiological studies of senile dementia] Li G. Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Jun;22(3):179–81 (18 ref.) (Chi)
[Epidemiologic study of the to-be-expected numbers of older patients with Down syndrome in the years 1990–2015 (letter)] Cremers MJ. Ned Tijdschr Geneeskd 1989 Jul 22; 133(29):1468–9 (Dut)
[The dementia syndrome in the clinical practice of 15 family physicians. A pilot study of the prevalence in the Zwolle area] Boersma F, et al. Tijdschr Gerontol Geriatr 1989 Aug; 20(4):153–7 (Eng. Abstr.) (Dut)
[Prevalence and incidence of dementia diseases in the elderly population. Results of a population-related longitudinal study in Mannheim] Cooper B, et al. Nervenarzt 1989 Aug; 60(8):472–82 (Ger)
[Aging of brain] Otomo E. Kokubyo Gakkai Zasshi 1989 Jun; 56(2):215–21 (0 ref.) (Jpn)
[Epidemiological investigation of senile dementia at home—with special reference to incidence and prevalence rate in Miki-cho, Kagawa Prefecture] Fukunishi I, et al. Seishin Shinkeigaku Zasshi 1989;91(6):401–28 (Eng. Abstr.) (Jpn)
[Epidemiological investigation of demented aged in Nagano Prefecture] Muto T, et al. Seishin Shinkeigaku Zasshi 1990; 92(4):227–41 (Jpn)
[Epidemiological study of senile dementia in Nagano Prefecture in Japan] Mutou T, et al. Seishin Shinkeigaku Zasshi 1989;91(10):783–90 (Jpn)

ETIOLOGY

Delirium in older adults. Lipowski ZJ. Adv Psychosom Med 1989;19:1–16 (46 ref.)
Multiple sclerosis: an unexpected cause of senile dementia [letter] Fox JH, et al. Arch Neurol 1989 Dec;46(12):1269
Idiopathic hydrocephalic dementia in aging brain the neurosurgical approach. Spanu G, et al. Funct Neurol 1989 Jul-Sep;4(3):293–8
Dementia—quality health care and cost effectiveness of evaluation. Aita JF. Nebr Med J 1990 Apr;75(4):64–5; discussion 65–6
Determining the cause of dementia. Steg RE. Nebr Med J 1990 Apr;75(4):59–63 (26 ref.)
Clinical features predicting dementia in idiopathic Parkinson's disease: a follow-up study. Ebmeier KP, et al. Neurology 1990 Aug;40(8):1222–4
Preventing psychogeriatric referrals. Campbell M, et al. Practitioner 1989 Oct 8;233(1476):1296–8, 1301
[Symptoms of confusion in the elderly—differential diagnostic considerations] Schax M, et al. Med Klin 1989 Aug 15;84(8):411–3 (Ger)
[Normal pressure hydrocephalus in geriatric patients—a treatable form of dementia] Martin U, et al. Z Gerontol 1989 Sep-Oct;22(5):228–35 (Eng. Abstr.) (Ger)

GENETICS

Genetics, Alzheimer's disease and senile dementia. Kay DW. Br J Psychiatry 1989 Mar;154:311–20 (105 ref.)
[Comparative clinico-genetic studies of senile dementia and Alzheimer's disease] Siriachenko TM, et al. Zh Nevropatol Psikhiatr 1990;90(3):114–9 (Eng. Abstr.) (Rus)

HISTORY

[Degenerative dementias: historical foundations] De Smet Y, et al. Acta Neurol Belg 1989 May-Oct;89(3-4):216–25 (Fre)

METABOLISM

Cholinergic and dopaminergic activities in senile dementia of Lewy body type. Perry EK, et al. Alzheimer Dis Assoc Disord 1990 Summer;4(2):87–95
Epidermal growth factor receptor expression in demented and aged human brain. Styren SD, et al. Brain Res 1990 Apr 2;512(2):347–52
Evidence of a monoaminergic-cholinergic imbalance related to visual hallucinations in Lewy body dementia. Perry EK, et al. J Neurochem 1990 Oct;55(4):1454–6
[Experimental approach to manifestations of senile dementia] Klosen P, et al. Acta Neurol Belg 1989 May-Oct; 89(3-4):294–9 (Eng. Abstr.) (Fre)
[Modifications in neurotransmission in degenerative dementia] Maloteaux JM. Acta Neurol Belg 1989 May-Oct; 89(3-4):186–93 (32 ref.) (Fre)
[A semiquantitative study on Alzheimer neurofibrillary tangles demonstrated immunohistochemically with anti-tau antibodies, in the brains of non-demented and demented old people] Kuzuhara S, et al. No To Shinkei 1989 May; 41(5):465–70 (Eng. Abstr.) (Jpn)

MORTALITY

Prediction of survival in dementia by cognitive tests: a six-year follow-up. Gamsu CV, et al. Br J Clin Psychol 1990 Feb;29 (Pt 1):99–104
Prediction of survival by the Clifton Assessment Procedures for the Elderly (CAPE). Moran SM, et al. Br J Clin Psychol 1990 May;29 (Pt 2):225–6
The natural history of mental disorder in old age. A long-term study. Robinson JR. Br J Psychiatry 1989 Jun; 154:783–9
Nonsuicidal mortality in late-life depression [see comments] Lindesay J. J Geriatr Psychiatry 1989;22(1):53–65 Comment in: J Geriatr Psychiatry 1989;22(1):67–75.
Mortality rates of patients admitted to a psychogeriatric assessment unit. Patterson T, et al. Ulster Med J 1989 Oct; 58(2):134–6
[psychogeriatric disorders and mortality] Bickel H. Soz Praventivmed 1989;34(6):265–71 (Eng. Abstr.) (Ger)

NURSING

Reduction of stress in carers of patients with dementia [letter; comment] Clarfield AM. BMJ 1990 Feb 3;300(6720):330 Comment on: BMJ 1989 Dec 2;299(6712):1375–9.
A study of psychological aspects of families living together with senile dementia. Fukunishi I, et al. Jpn J Psychiatry Neurol 1990 Mar;44(1):19–24
[Admission of patients with dementia to a psychiatric hospital. Social circumstances, circumstances of admission, treatment and further referral] Jørgensen O, et al. Ugeskr Laeger 1990 Jan 22;152(4):232–5 (Eng. Abstr.) (Dan)
[Aspects of long-term care and of terminal care in aged patients with dementia in a nursing home] Triau E, et al. Acta Neurol Belg 1989 May-Oct;89(3-4):306–10 (Dut)
[The usefulness of BOP and SIVIS (ADL and behavior rating scales) for the estimation of workload in a psychogeriatric nursing home. Results of a time-standard study] van der Kam P, et al. Tijdschr Gerontol Geriatr 1989 Aug; 20(4):159–66 (Eng. Abstr.) (Dut)
[Therapeutic management and care in the family milieu] Meire P. Acta Neurol Belg 1989 May-Oct;89(3-4):209–15 (Fre)
[Reconstruct nursing homes as units for group living] Hultén G, et al. Lakartidningen 1990 Jun 27;87(26-27):2243–4 (Swe)

PATHOLOGY

Contribution of stereotactic brain biopsies to the diagnosis in several cases of dementia. Waltregny A, et al. Acta Neurol Belg 1989 May-Oct;89(3-4):161–7
Diffuse Lewy body disease: light and electron microscopic immunocytochemistry of senile plaques. Dickson DW, et al. Acta Neuropathol (Berl) 1989;78(6):572–84
A case of adult-onset dementia with argyrophilic grains. Itagaki S, et al. Ann Neurol 1989 Nov;26(5):685–9
Dementia and Parkinson's disease. Gibb WR. Br J Psychiatry 1989 May;154:596–614 (215 ref.)
Diffuse Lewy body disease: correlative neuropathology using anti-ubiquitin immunocytochemistry. Lennox G, et al. J Neurol Neurosurg Psychiatry 1989 Nov;52(11):1236–47
Visual hallucinations and the cholinergic system in dementia [letter] Perry EK, et al. J Neurol Neurosurg Psychiatry 1990 Jan;53(1):88
Mesolimbocortical dementia: clinico-pathological studies on two cases. Verity MA, et al. J Neurol Neurosurg Psychiatry 1990 Jun;53(6):492–5
Senile dementia of Lewy body type. A clinically and neuropathologically distinct form of Lewy body dementia in the elderly. Perry RH, et al. J Neurol Sci 1990 Feb; 95(2):119–39
Cytoarchitectonics of some areas of the human cerebral cortex in Alzheimer's disease and senile dementia. Bogolepova IN. Neurosci Behav Physiol 1989 Nov-Dec; 19(6):493–8
Computer-assisted morphometry of synaptic plasticity during aging and dementia. Bertoni-Freddari C, et al. Pathol Res Pract 1989 Nov;185(5):799–802
[Pathology of the cytoskeleton in degenerative dementias] Brion JP, et al. Acta Neurol Belg 1989 May-Oct; 89(3-4):266–73 (Fre)
[Cerebral morphological changes in degenerative dementia] Flament-Durand J, et al. Acta Neurol Belg 1989 May-Oct; 89(3-4):179–85 (Fre)
[Meningioma in psychiatry. Clinico-pathologic contribution to differential cerebral organic psychosyndrome diagnosis in middle and advanced age] Vieregge P, et al. Schweiz Arch Neurol Psychiatr 1990;141(3):269–81 (Eng. Abstr.) (Ger)
[Changes in dendrites in disease and aging] Frýdl V, et al. ZFA 1989 Nov-Dec;44(6):345–52, 358 (48 ref.) (Eng. Abstr.) (Ger)
[Histological study on possibility of senile dementia diagnosis in forensic autopsy cases] Kubo S, et al. Nippon Hoigaku Zasshi 1990 Feb;44(1):18–24 (Eng. Abstr.) (Jpn)
[Micromeasurement of autofluorescent granules of the human hippocampus and cerebellum in relation to age and grade of dementia] Ito Y, et al. Nippon Ronen Igakkai Zasshi 1989 Nov;26(6):602–7 (Eng. Abstr.) (Jpn)
[Morphological studies of the hippocampus of 100 elderly females in relation to age and grade of dementia] Sato T, et al. Nippon Ronen Igakkai Zasshi 1989 Nov;26(6):594–601 (Eng. Abstr.) (Jpn)
[Regional characteristics of ventricular surfaces of the brain

in aging and in senile dementia (aqueduct of Sylvius)] Kiktenko AI. **Zh Nevropatol Psikhiatr** 1989;89(7):66–8 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Possible participation of calcium-regulating factors in senile dementia in elderly female subjects. Ogihara T, et al. **Gerontology** 1990;36 Suppl 1:25–30

Biological abnormalities in late-life depression. Alexopoulos GS. **J Geriatr Psychiatry** 1989;22(1):25–34 (37 ref.)

Abnormal EEG slow activity in left temporal areas in senile dementia of the Alzheimer type. Rice DM, et al. **J Gerontol** 1990 Jul;45(4):M145–51

Clinicopathological analysis of dementia disorders in the elderly. Jellinger K, et al. **J Neurol Sci** 1990 Mar; 95(3):239–58

Loss of smell leads to dementia in mice: is Alzheimer's disease a degenerative disorder of the olfactory system? Kurtz P, et al. **J Protein Chem** 1989 Jun;8(3):448–51

EEG analysis in patients with senile dementia and Alzheimer's disease. Horie T, et al. **Jpn J Psychiatry Neurol** 1990 Mar;44(1):91–8

Progressive aphasia: a precursor of global dementia? Green J, et al. **Neurology** 1990 Mar;40(3 Pt 1):423–9

Topographic disorientation--a case report. Bottini G, et al. **Neuropsychologia** 1990;28(3):309–12

Activating the damaged basal forebrain cholinergic system: tonic stimulation versus signal amplification. Sarter M, et al. **Psychopharmacology (Berl)** 1990;101(1):1–17 (177 ref.)

Brain bioelectric activity in aging. Kuznetsova SM, et al. **Z Gerontol** 1989 Sep–Oct;22(5):222–7 (50 ref.)

[Hydrocephalic and/or degenerative dementia] De Mol J, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):228–35 (Eng. Abstr.) **(Fre)**

[Age as a risk factor for the development of dementias? Consideration of changes in cerebral glucose metabolism with increasing age] Hoyer S. **Z Gerontol** 1989 Jul–Aug; 22(4):206–11 (82 ref.) (Eng. Abstr.) **(Ger)**

[The relationship of the electrical reactions of the brain to lipid peroxidation processes in pathological aging] Fokin VF, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):682–4 (Eng. Abstr.) **(Rus)**

[Study of evoked potentials in patients with arteriosclerotic and senile dementia] Bogdanov AS, et al. **Zh Nevropatol Psikhiatr** 1990;90(3):110–3 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Determining the capacity for making health care decisions. Mishkin B. **Adv Psychosom Med** 1989;19:151–66 (34 ref.)

Impaired facial recognition memory in aging and dementia. Flicker C, et al. **Alzheimer Dis Assoc Disord** 1990;4(1):43–54

Erotomania and senile dementia [letter] Carrier L. **Am J Psychiatry** 1990 Aug;147(8):1092

Chronicity and relapse in geriatric depression. Alexopoulos GS, et al. **Biol Psychiatry** 1989 Oct;26(6):551–64 (90 ref.)

Paraneoplastic limbic encephalitis: neuropsychiatric presentation. Newman NJ, et al. **Biol Psychiatry** 1990 Mar 1;27(5):529–42 (53 ref.)

Parkinson's disease: a conceptualization of neuropsychological deficits within an information-processing framework. Karayanidis F. **Biol Psychol** 1989 Oct;29(2):149–79 (150 ref.)

Expressed emotion in caregivers of the dementing elderly. Gilhooly ML, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):265–72

Elderly eccentrics [letter; comment] Powell C. **Br J Psychiatry** 1989 May;154:724 Comment on: Br J Psychiatry 1988 Dec;153:777–82.

Psychiatric aspects of normal-pressure hydrocephalus. A report of five cases. Pujol J, et al. **Br J Psychiatry Suppl** 1989 May;(4):77–80

Spatial and visual learning deficits in Alzheimer's and Parkinson's disease. Freedman M, et al. **Brain Cogn** 1989 Sep;11(1):114–26

Definitional deficit: a model of senile dementia in context. Hanson BG. **Fam Process** 1989 Sep;28(3):281–9

Whys and whats of wandering. Hirst ST, et al. **Geriatr Nurs (New York)** 1989 Sep–Oct;10(5):237–8

Data-based interventions to reduce assaults by geriatric inpatients. Balderston C, et al. **Hosp Community Psychiatry** 1990 Apr;41(4):447–9

Dementia of frontal lobe type. Neary D. **J Am Geriatr Soc** 1990 Jan;38(1):71–2 (9 ref.)

Different cognitive profiles on standard behavioral tests in Parkinson's disease and Alzheimer's disease. Sullivan EV, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):799–820

Degree of cognitive impairment and the dissociation of implicit and explicit memory. Landrum RE, et al. **J Gen Psychol** 1990 Apr;117(2):187–96

Recall and recognition memory for remotely acquired information in dementia patients. Finley GE, et al. **J Genet Psychol** 1990 Jun;151(2):267–8

Coexisting depression and dementia. Rabins PV. **J Geriatr Psychiatry** 1989;22(1):17–24 (28 ref.)

Visuospatial working memory in Parkinson's disease. Bradley VA, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov; 52(11):1228–35

The write way: using poetry for self-disclosure. Sluder H. **J Psychosoc Nurs Ment Health Serv** 1990 Jul;28(7):26–8

Symptoms of psychological distress among caregivers of dementia patients. Anthony-Bergstone CR, et al. **Psychol Aging** 1988 Sep;3(3):245–8

Toward a social ecology of the home-care household. Birkel RC. **Psychol Aging** 1987 Sep;2(3):294–301

Effect of respite care on dementia and nondementia patients and their caregivers. Burdz MP, et al. **Psychol Aging** 1988 Mar;3(1):38–42

Interventions with care givers of dementia patients: comparison of two approaches. Zarit SH, et al. **Psychol Aging** 1987 Sep;2(3):225–32

Psychiatric morbidity in patients with Parkinson's disease. Brown RG, et al. **Psychol Med** 1990 Feb;20(1):77–87

The influence of education, social class and sex on Mini-Mental State scores. O'Connor DW, et al. **Psychol Med** 1989 Aug;19(3):771–6

[Shouting by elderly patients with dementia] Andersen F, et al. **Ugeskr Laeger** 1989 Dec 11;151(50):3394–5 (Eng. Abstr.) **(Dan)**

[The diagnosis of degenerative dementia: neuropsychological studies] Thiery E. **Acta Neurol Belg** 1989 May–Oct; 89(3–4):135–40 **(Dut)**

[Assessment of the severity of dementia: patient and caregivers] Teunisse S, et al. **Ned Tijdschr Geneeskd** 1990 Feb 17;134(7):327–31 **(Dut)**

[A test battery of simple reaction times: value of the evaluation of oculomotor reaction rate in degenerative processes] Leclercq M, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):315 **(Fre)**

[Who benefits from passive euthanasia? Prof. S. Kanowski (Berlin) states his position on euthanasia at the geriatric clinic (interview by Elisabeth B. Moosmann)] Kanowski S. **Fortschr Med** 1990 Apr 15;108(11):76–7 **(Ger)**

[Psychosocial problems in advanced age] Lungershausen E. **Fortschr Med** 1990 Mar 30;108(9):165–7 **(Ger)**

[Comparative psychological test studies of the intellectual ability of Parkinson patients] Russ M, et al. **Nervenarzt** 1990 Feb;61(2):88–93 (Eng. Abstr.) **(Ger)**

[Gerontopsychiatry (editorial)] Oesterreich K. **Z Gerontol** 1989 Sep–Oct;22(5):221 **(Ger)**

[The relation between suicide and psychiatric disease in advanced age] Vogel R, et al. **Z Gerontol** 1989 Sep–Oct; 22(5):242–6 (Eng. Abstr.) **(Ger)**

[The study of dementia patients who showed intellectual improvement after admission to a hospital where they could be given special therapy for dementia] Kono K, et al. **Nippon Ronen Igakkai Zasshi** 1989 Nov;26(6):582–8 (Eng. Abstr.) **(Jpn)**

[Understanding and care of patients with senile dementia] Murofuse K. **Seishin Shinkeigaku Zasshi** 1989;91(8):566–84 **(Jpn)**

[Senile psychoses with auditory hallucination] Ozawa I. **Seishin Shinkeigaku Zasshi** 1989;91(10):839–64 **(Jpn)**

[Aggression and motor problems force persons with dementia to leave group dwellings] Asplund K, et al. **Lakartidningen** 1990 May 2;87(18):1555–6 **(Swe)**

RADIOGRAPHY

[Diagnosis of senile dementia using the method of computerized tomography] Medvedev AV, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):85–91 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Slowly progressive aphasia syndrome. A positron emission tomographic study. Salmon E, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):242–5

Positron emission tomography in degenerative dementias. Salmon E, et al. **Acta Neurol Belg** 1989 May–Oct; 89(3–4):150–5

Scinticisternography in presenile and senile degenerative disease. Brusa G, et al. **Ital J Neurol Sci** 1990 Feb; 11(1):43–7

REHABILITATION

Imagery mnemonic training in a patient with primary degenerative dementia. Hill RD, et al. **Psychol Aging** 1987 Jun;2(2):204–5

[Effect and prognosis of rehabilitation for cerebrovascular dementia in the elderly] Inagaki T, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):33–9 (Eng. Abstr.) **(Jpn)**

[Collective living for patients with dementia. A qualitative development of care for patients with dementia] Johansson L. **Lakartidningen** 1989 Nov 8;86(45):3874, 3876 **(Swe)**

THERAPY

Agitation in the elderly. Cohen-Mansfield J. **Adv Psychosom Med** 1989;19:101–13 (42 ref.)

Geriatric consultation/liaison psychiatry. Goldberg RL. **Adv Psychosom Med** 1989;19:138–50 (38 ref.)

The nursing home resident as a psychiatric patient. Liptzin B. **Adv Psychosom Med** 1989;19:85–100 (27 ref.)

Excess disability in dementia. Peters DW, et al. **Adv Psychosom Med** 1989;19:17–30 (37 ref.)

The effectiveness of services and treatment in psychogeriatrics. Draper B. **Aust N Z J Psychiatry** 1990 Jun;24(2):238–51 (121 ref.)

Effects on care-givers of special day care programmes for dementia sufferers. Wells YD, et al. **Aust N Z J Psychiatry** 1990 Mar;24(1):82–90

A profile of long-stay psychogeriatric patients. Hilton Z, et al. **Br J Psychiatry** 1989 Dec;155:782–6

Resettlement of old long-stay psychiatric patients: the use of the private sector. Perkins RE, et al. **Br J Psychiatry** 1989 Aug;155:233–8

Issues in the evaluation of a community psychogeriatric service. Harris AG, et al. **Can J Psychiatry** 1990 Apr; 35(3):215–22

Testing the use of color in a long-term care setting. Cooper B, et al. **Dimens Health Serv** 1989 Sep;66(6):22, 24–6

How to unmask depression. Buckwalter KC. **Geriatr Nurs (New York)** 1990 Jul–Aug;11(4):179–81

Discharge and retention of psychogeriatric long-stay patients in a state mental hospital [published erratum appears in Hosp Community Psychiatry 1990 Jul;41(7):808] Moak GS. **Hosp Community Psychiatry** 1990 Apr;41(4):445–7

Treatment of affective illness in the elderly with drugs and electroconvulsive therapy. Jenike MA. **J Geriatr Psychiatry** 1989;22(1):77–112; discussion 113–20 (100 ref.)

Assessments on a geropsychiatry unit. Rubin EH, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):17–20

Application of operant procedures in a group of institutionalized aggressive geriatric patients. Vaccaro FJ. **Psychol Aging** 1988 Mar;3(1):22–8

[Legal rights for the aged on admission to a psychiatric clinic or transfer to a psychiatric nursing home. Forms of admission, compulsory admission and incapacitation] Rasmussen AK, et al. **Ugeskr Laeger** 1989 Oct 9; 151(41):2642–3 (Eng. Abstr.) **(Dan)**

[Reality orientation and the reality of the nursing home resident] Fleischeuer I, et al. **Tijdschr Gerontol Geriatr** 1989 Oct;20(5):197–201 (Eng. Abstr.) **(Dut)**

[Reversible dementias: assessment of treatment effects] van Crevel H. **Tijdschr Gerontol Geriatr** 1989 Dec 6; 20(6):249–50 **(Dut)**

[Therapeutic management and care in psychiatric institutions] Ylieff M. **Acta Neurol Belg** 1989 May–Oct;89(3–4):198–208 **(Fre)**

[Psychiatric care of the elderly] Poulhès L. **Cah Sociol Demogr Med** 1989 Oct–Dec;29(4):359–85 (Eng. Abstr.) **(Fre)**

[The status of elderly females in psychiatry. Results of an empirical study of patients transferred to long-term nursing homes] Leimkühler AM. **Z Gerontol** 1989 Jul–Aug; 22(4):192–5 (Eng. Abstr.) **(Ger)**

DEMENTIA, VASCULAR

Vascular dementia and dementia of Alzheimer-type cognition [letter] Cummings JL. **Arch Neurol** 1989 Oct; 46(10):1046–7

The decline and resurgence of vascular dementia. Hachinski VC. **Can Med Assoc J** 1990 Jan 15;142(2):107–11 (41 ref.)

[Chronic vascular encephalopathy] Poeck K. **Dtsch Med Wochenschr** 1989 Oct 13;114(41):1582–7 (29 ref.) **(Ger)**

[Vascular dementia. A still poorly defined entity] Bermejo F, et al. **Neurologia** 1986 May–Jun;1(3):107–18 (197 ref.) (Eng. Abstr.) **(Spa)**

[Vascular dementia] Ferrer I. **Neurologia** 1986 May–Jun; 1(3):91–3 **(Spa)**

BLOOD

Effect of vinpocetine on oxygen release of hemoglobin and erythrocyte organic polyphosphate concentrations in patients with vascular dementia of the Binswanger type. Tohgi H, et al. **Arzneimittelforschung** 1990 Jun;40(6):640–3

CLASSIFICATION

[Cortical and subcortical vascular dementia] del Ser T, et al. **Neurologia** 1988 Sep–Oct;3(5):181–6 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Plasma and serum G4 isoenzyme of acetylcholinesterase in patients with Alzheimer-type dementia and vascular dementia. Yamamoto Y, et al. **Ann Clin Biochem** 1990 Jul; 27 (Pt 4):321–6

The picture absurdities test in the evaluation of dementia. Shuttleworth EC, et al. **Brain Cogn** 1989 Sep;11(1):50–9

Pattern of language impairment is different in Alzheimer's disease and multi-infarct dementia. Kontiola P, et al. **Brain Lang** 1990 Apr;38(3):364–83

Transcranial Doppler sonography as a diagnostic tool in vascular dementia. Provinciali L, et al. **Eur Neurol** 1990; 30(2):98–103

Binswanger's disease (Part I): The clinical recognition of subcortical arteriosclerotic encephalopathy in elderly neuropsychiatric patients. Summergrad P, et al. **J Geriatr Psychiatry Neurol** 1989 Jul–Sep;2(3):123–33 (64 ref.)

Morphological diagnosis of vascular and senile dementia (the importance of cerebral congophilic angiopathy). Geinisman RV, et al. **Neurosci Behav Physiol** 1989 Nov–Dec; 19(6):488–93

[Vascular dementia (letter)] Scheltens P, et al. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1018–9 **(Dut)**

[Apropos of a probable case of Binswanger encephalopathy] Bovier P, et al. **Schweiz Arch Neurol Psychiatr** 1989;

140(4):337–43 (Eng. Abstr.) (Fre)
[Sonography of the cervical vessels. Value in the differential diagnosis of dementia syndromes] Müller M, et al. **Fortschr Med** 1989 Nov 30;107(34):733–5 (Eng. Abstr.) (Ger)
[A clinical study on the usefulness of CT and MRI imaging in evaluating differential diagnosis and the degree of dementia in vascular dementia] Hagiwara M. **Nippon Ika Daigaku Zasshi** 1990 Jun;57(3):265–75 (Eng. Abstr.) (Jpn)
[The electroencephalographic image in Binswanger's subcortical arteriosclerotic encephalopathy] Działek E, et al. **Neurol Neurochir Pol** 1989 May–Jun;23(3):214–9 (Eng. Abstr.) (Pol)
[Vascular dementia: current situation] Junqué Plaja C. **Neurologia** 1988 Sep–Oct;3(5):169–71 (25 ref.) (Spa)

DRUG THERAPY

[Drug therapy of disorders of cerebral performance. Randomized comparative study of dihydroergotoxine and Ginkgo biloba extract] Gerhardt G, et al. **Fortschr Med** 1990 Jun 30;108(19):384–8 (Eng. Abstr.) (Ger)
[Effect of luliberin in the treatment of mental disorders in cerebral arteriosclerosis] Tikhomirov SM, et al. **Zh Nevropatol Psikhiatr** 1990;90(1):121–3 (Eng. Abstr.) (Rus)

ETIOLOGY

The aging–disease dichotomy. Cerebral amyloid angiopathy—an independent entity associated with dementia. Blumenthal HT, et al. **J Am Geriatr Soc** 1990 Apr;38(4):475–82 (61 ref.)
Binswanger's disease (Part II): Pathogenesis of subcortical arteriosclerotic encephalopathy and its relation to other dementing processes. Peterson B, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec;2(4):171–81 (57 ref.)
[Vascular dementia] Hijdra A. **Ned Tijdschr Geneeskd** 1990 Mar 10;134(10):473–7 (52 ref.) (Dut)
[Multi-morbidity and pharmacotherapy in the aged. Considerations for the treatment of cerebral performance deficits] Platt D. **Fortschr Med** 1990 Mar 30;108(9):181–3 (4 ref.) (Ger)
[Vascular dementia] Kuzuhara S. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):496–501 (Jpn)
[Multi-focal delayed neuronal damage after transient regional ischemia—mechanism of vascular dementia] Nagasawa H, et al. **Rinsho Shinkeigaku** 1990 Apr;30(4):396–401 (Eng. Abstr.) (Jpn)
[Circulatory encephalopathy with organic dementia syndrome] Martynov IuS, et al. **Sov Med** 1990;(4):100–3 (Rus)

IMMUNOLOGY

Intrathecal synthesis of immunoglobulin G in vascular dementia. Wallin A, et al. **Acta Neurol Scand** 1990 Feb; 81(2):168–72

METABOLISM

Decreased myelin lipids in Alzheimer's disease and vascular dementia. Wallin A, et al. **Acta Neurol Scand** 1989 Oct; 80(4):319–23
Defective gallium–transferrin binding in Alzheimer disease and Down syndrome: possible mechanism for accumulation of aluminium in brain [see comments] Farrar G, et al. **Lancet** 1990 Mar 31;335(8692):747–50 Comment in: Lancet 1990 Jun 2;335(8701):1348–50.

MORTALITY

Prediction of survival in dementia by cognitive tests: a six-year follow-up. Gamsu CV, et al. **Br J Clin Psychol** 1990 Feb;29 (Pt 1):99–104

PATHOLOGY

Vascular glycosaminoglycans in periventricular leukoencephalopathy. Torack RM, et al. **Acta Neuropathol (Berl)** 1989;78(5):492–6
Loss of nerve fibres in the corpus callosum of progressive subcortical vascular encephalopathy. Yamanouchi H, et al. **J Neurol** 1990 Feb;237(1):39–41
Decrease in nerve fibres in cerebral white matter in progressive subcortical vascular encephalopathy of Binswanger type. An electron microscopic study. Yamanouchi H, et al. **J Neurol** 1989 Oct;236(7):382–7
[Aging of the brain, Alzheimer's disease and the most frequent vascular dementias] Koukolík F. **Cesk Neurol Neurochir** 1990 Jan;53(1):1–11 (68 ref.) (Cze)
[Vascular (arteriosclerotic) and Alzheimer's dementia in neurologic–psychiatric patient sample] Tennstedt A. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Apr;42(4):225–9 (Eng. Abstr.) (Ger)
[A case of Binswanger disease with numerous diffuse plaques in the neocortex] Inagaki T, et al. **No To Shinkei** 1990 Mar; 42(3):291–6 (Eng. Abstr.) (Jpn)

PHYSIOPATHOLOGY

Blood brain barrier function in vascular dementia. Wallin A, et al. **Acta Neurol Scand** 1990 Apr;81(4):318–22
Vascular dementia. A clinicopathological study. del Ser T, et al. **J Neurol Sci** 1990 Apr;96(1):1–17
Clinicopathological analysis of dementia disorders in the elderly. Jellinger K, et al. **J Neurol Sci** 1990 Mar; 95(3):239–58
Topographic EEG brain mapping in cerebrovascular disease and dementia. Lechner H, et al. **Neurologija** 1989;38(1):3–10
[Study of evoked potentials in patients with arteriosclerotic and senile dementia] Bogdanov AS, et al. **Zh Nevropatol Psikhiatr** 1990;90(3):110–3 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Binswanger's disease: some neuropsychological considerations. Libon DJ, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):31–40
[Short-term therapeutic prognosis of cognitive impairment with cerebrovascular diseases in chronic stages] Fujita T, et al. **Nippon Ronen Igakkai Zasshi** 1989 Sep;26(5):499–506 (Eng. Abstr.) (Jpn)
[A non-pharmacologic method of memory stimulation in elderly patients with the initial stage of vascular dementia] Alimova RA. **Zh Nevropatol Psikhiatr** 1990;90(4):125–9 (Eng. Abstr.) (Rus)

RADIOGRAPHY

White matter low attenuation on computed tomography in Alzheimer's disease and vascular dementia—diagnostic and pathogenetic aspects. Wallin A, et al. **Acta Neurol Scand** 1989 Dec;80(6):518–23
[Cerebrovascular dementia; correlation of computed and histopathologic findings] Mitsuyama Y. **Rinsho Hoshasen** 1989 Oct;34(11):1307–15 (Eng. Abstr.) (Jpn)

REHABILITATION

[Effect and prognosis of rehabilitation for cerebrovascular dementia in the elderly] Inagaki T, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):33–9 (Eng. Abstr.) (Jpn)

4-DEMETHOXYDAUNORUBICIN see **IDARUBICIN**

DEMETHYL EPIPODOPHYLLOTOXIN ETHYLIDINE GLUCOSIDE see **ETOPOSIDE**

N-DEMETHYLASES see **OXIDOREDUCTASES, N-DEMETHYLATING**

DEMETHYLCHLORTETRACYCLINE

Dental materials and dental pulp [letter] Martin AP. **Aust Dent J** 1990 Jun;35(3):301–2

DIAGNOSTIC USE

A chromatographic modification of the tetracycline fluorescence test for gastric cancer. Ibsen KH, et al. **Cancer Res** 1967 Jul;27(7):1296–300

PHARMACOLOGY

Pathophysiological and therapeutic aspects of dentoalveolar resorption. Pierce A. **Aust Dent J** 1989 Oct;34(5):437–48
Effects of demethylchlortetracycline phototoxicity on the structure and functions of rat liver mitochondria. Takagi S, et al. **Photochem Photobiol** 1990 Feb;51(2):175–83

THERAPEUTIC USE

Antimalarial activity of demeclocycline against Plasmodium cynomolgi bastianellii in rhesus monkeys. Kumar A, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):199–206

DEMETHYLDIAZEPAM see under **DIAZEPAM**

DEMOCRACY

Democratization of health care: challenge for nursing. Watts RJ. **ANS** 1990 Jan;12(2):37–46
Alcohol and tobacco as public health challenges in a democracy. Beauchamp DE. **Br J Addict** 1990 Feb; 85(2):251–4 (10 ref.)
Bioethics as civic discourse. Jennings B. **Hastings Cent Rep** 1989 Sep–Oct;19(5):34–5
Responsibility of the regulator to the regulated community. Glosser JW. **J Med Primatol** 1990;19(1):1–8
[Democracy and the health care system] Elola Somoza FJ. **Gac Sanit** 1989 Jul–Aug;3(13):472–5 (Spa)

DEMOGRAPHY

Assigning race to occupational cohorts using census block statistics. Andjelkovich DA, et al. **Am J Epidemiol** 1990 May;131(5):928–34
Geographic variability of hemophilia-associated AIDS in the United States: effect of population characteristics. Hemophilia-Associated AIDS Study Group. Stehr-Green JK, et al. **Am J Hematol** 1989 Nov;32(3):178–83
The declining presence of the "young American"—a demographic reality, present and future [editorial] Lesse S. **Am J Psychother** 1990 Jan;44(1):1–4
Demographic change in a corporate health benefits population, 1983–87. Kintner HJ. **Am J Public Health** 1989 Dec;79(12):1655–6
Demographic and dietary determinants of constipation in the US population. Sandler RS, et al. **Am J Public Health** 1990 Feb;80(2):185–9
Demographic and epidemiologic trends today. Doll R. **Arzneimittelforschung** 1989 Aug;39(8A):943–6; discussion 946–7
Baseline characteristics in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Brown KM, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):40S–64S
Demographic seasonality and development: the effects of agricultural colonialism in Taiwan, 1906–1942. Anderton DL, et al. **Demography** 1990 Aug;27(3):397–411
Estimating transition probabilities of age misstatement. Bhat PN. **Demography** 1990 Feb;27(1):149–63
The demographic evolution of human populations: the role of selection and environmental factors. Demetrius L. **Demography** 1989 Aug;26(3):353–72
Racial and ethnic differences in U.S. census omission rates. Fein DJ. **Demography** 1990 May;27(2):285–302
Demographic consequences of the 1984–1985 Ethiopian famine. Kidane A. **Demography** 1989 Aug;26(3):515–22
Immigration, below-replacement fertility, and long-term national population trends. Mitra S. **Demography** 1990 Feb; 27(1):121–9
The hidden component in census-derived migration data: assessing its size and distribution. Nicholson B. **Demography** 1990 Feb;27(1):111–9
Age estimation from the number of teeth erupted in young children: an aid to demographic surveys. Townsend N, et al. **Demography** 1990 Feb;27(1):165–74
An alternative purging method: controlling the composition-dependent interaction in an analysis of rates. Xie Y. **Demography** 1989 Nov;26(4):711–6
A demographic study of a Dinka village. 1956 [classical article] Roberts DF. **Hum Biol** 1989 Oct–Dec; 61(5–6):731–57; discussion 758–61
Child mortality differentials: census of India, 1981. Ghosh S. **Indian J Pediatr** 1989 Mar–Apr;56(2):189–91
Characteristics of emigrants from Hawaii. Johnson RC, et al. **J Biosoc Sci** 1989 Oct;21(4):453–9
Demography of Muslims in Australia. Yusuf F. **J Biosoc Sci** 1990 Jan;22(1):77–84
Insulin-treated diabetes in Tasmania: population-based clinical characteristics and their possible implications for diabetic health care in Australia. King H, et al. **Med J Aust** 1989 Oct 16;151(8):444, 446, 448, 450
Inequalities in health: socioeconomic differences in self-reported morbidity. Yuen P, et al. **Public Health** 1990 Jan;104(1):65–71
1990 Census estimates. **Stat Bull Metrop Insur Co** 1990 Jul–Sep;71(3):27–31
Two hundred years of demographic change: 1790–1990. Long JF. **Stat Bull Metrop Insur Co** 1990 Jan–Mar; 71(1):2–11
1990—our bicentennial census. Schneider PJ. **Stat Bull Metrop Insur Co** 1990 Jan–Mar;71(1):12
Mexico 1987: results from the demographic and health survey. **Stud Fam Plann** 1990 May–Jun;21(3):181–5
[Regional differences in the frequency of various common surgical procedures, 1985] Mackenbach JP. **Ned Tijdschr Geneeskd** 1990 May 12;134(19):953–7 (Eng. Abstr.) (Dut)
[Definition of the elderly patient. Demographic data] Laxenaire MC. **Ann Fr Anesth Reanim** 1990;9(3):227–8 (Eng. Abstr.) (Fre)
[Aging of the population: the 2d demographic revolution] Recchia G. **Clin Ter** 1990 Mar 31;132(6 Suppl):443–50 (Eng. Abstr.) (Ita)
[Current demographic processes and the problems of childhood] Bednyĭ MC. **Pediatriia** 1990;(5):5–10 (Rus)

DEMYELINATING DISEASES

Neuromyelitis optica (Devic's disease) report of one case. Ko FJ, et al. **Acta Paediatr Sin** 1989 Nov–Dec;30(6):428–31
A case of neuromyelitis optica (Devic's disease). Banerjee A, et al. **Practitioner** 1989 Feb 22;233(1463):202, 205

BLOOD

Central pontine myelinolysis associated with low potassium levels in alcoholism. Bühr M, et al. **J Neurol** 1990 Jul; 237(4):275–6
Central pontine myelinolysis and changes in serum sodium [letter] Tormey WP. **Lancet** 1990 May 12;335(8698):1169
Electrophysiologic study of experimental demyelination induced by serum of patients with IgM M proteins and neuropathy. Trojaborg W, et al. **Neurology** 1989 Dec; 39(12):1581–6
[HTLV-I in patients from Barcelona with connective tissue diseases, neurologic demyelinating diseases and lymphoproliferative syndromes] Soriano V, et al. **Med Clin (Barc)** 1990 May 19;94(19):730–2 (Eng. Abstr.) (Spa)

CEREBROSPINAL FLUID

Diagnostic value of cerebrospinal fluid myelin basic protein in patients with neurological illness. Davies L, et al. **Clin Exp Neurol** 1987;24:5–10

CHEMICALLY INDUCED

Penicillamin–induced neuropathy in rheumatoid arthritis. Pedersen PB, et al. **Acta Neurol Scand** 1990 Feb; 81(2):188–90

Horner's syndrome and demyelinating peripheral neuropathy caused by high–dose cytosine arabinoside. Nevill TJ, et al. **Am J Hematol** 1989 Dec;32(4):314–5

Cisplatin–induced peripheral neuropathy. Frequent off–therapy deterioration, demyelinating syndromes, and muscle cramps. Siegal T, et al. **Cancer** 1990 Sep 15; 66(6):1117–23

[Neuromyeloencephalopathy caused by high–dose muzolimine medication in patients with renal failure] Pohlmann–Eden B, et al. **Fortschr Neurol Psychiatr** 1990 Mar;58(3):87–97 (Eng. Abstr.) **(Ger)**

[Toxic demyelination of the central nervous system. II. Biological aspects of Schwann cells observed during the tissue repair process] Graça DL. **Arq Neuropsiquiatr** 1989 Sep;47(3):268–73 (Eng. Abstr.) **(Por)**

[Toxic demyelination of the central nervous system. I. Effect of an intercalating gliotoxic drug on the spinal cord in Wistar rats] Graça DL. **Arq Neuropsiquiatr** 1989 Sep; 47(3):263–7 (Eng. Abstr.) **(Por)**

[Optic neuropathy caused by amiodarone] Ferreiro JL, et al. **Neurologia** 1990 May;5(5):160–3 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Lateral pontine and extrapontine myelinolysis associated with hypernatremia and hyperglycemia. McComb RD, et al. **Clin Neuropathol** 1989 Nov–Dec;8(6):284–8 (24 ref.)

Diabetic female with altered neurological status. McGhee RB Jr, et al. **Invest Radiol** 1990 Jan;25(1):82–4

Subacute combined degeneration of the spinal cord in acute monoblastic leukemia. Kasantikul V, et al. **J Med Assoc Thai** 1989 Aug;72(8):474–7

Neuromyelitis optica (Devic's syndrome) and pulmonary tuberculosis. Silber MH, et al. **Neurology** 1990 Jun; 40(6):934–8

[A case report of central pontine and extrapontine myelinolysis which occurred during pregnancy and was accompanied by choreic movement] Tsutada T, et al. **Rinsho Shinkeigaku** 1989 Oct;29(10):1294–7 (Eng. Abstr.) **(Jpn)**

[Tetraparesis appearing before hyponatremia correction in a case of central pontine myelinolysis] Izquierdo G, et al. **Neurologia** 1987 Sep–Oct;2(5):247–50 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Leukoaraiosis: correlation of MR and CT findings with blood flow, atrophy, and cognition. Kobari M, et al. **AJNR** 1990 Mar–Apr;11(2):273–81

CT and MR imaging of Canavan disease. McAdams HP, et al. **AJNR** 1990 Mar–Apr;11(2):397–9

Imaging of aging, degenerative, and demyelinating diseases. Davis PC. **Curr Opin Radiol** 1990 Feb;2(1):26–33 (29 ref.)

Magnetic resonance imaging of inflammatory and demyelinating white–matter diseases of childhood. Miller DH, et al. **Dev Med Child Neurol** 1990 Feb;32(2):97–107

Central pontine myelinolysis following correction of hyponatremia: MRI diagnosis. Morlan L, et al. **Eur Neurol** 1990;30(3):149–52

Binswanger's disease (Part I): The clinical recognition of subcortical arteriosclerotic encephalopathy in elderly neuropsychiatric patients. Summergrad P, et al. **J Geriatr Psychiatry Neurol** 1989 Jul–Sep;2(3):123–33 (64 ref.)

Marchiafava–Bignami disease with recovery diagnosed by CT and MRI: demyelination affects several CNS structures. Baron R, et al. **J Neurol** 1989 Sep;236(6):364–6

Blink reflexes and magnetic resonance imaging in focal unilateral central trigeminal pathway demyelination. Kiers L, et al. **J Neurol Neurosurg Psychiatry** 1990 Jun; 53(6):526–9

Magnetic resonance imaging in Behçet's disease [letter; comment] Montalban J, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):442 Comment on: J Neurol Neurosurg Psychiatry 1989 Jun;52(6):749–54.

Pontine myelinolysis presenting with acute parkinsonism as a sequel of corrected hyponatraemia [letter] Tinker R, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):87–8

Magnetic resonance imaging of experimental demyelinating lesions. Ford CC, et al. **Magn Reson Med** 1990 Jun; 14(3):461–81

Normal and abnormal white matter maturation. Dietrich RB, et al. **Semin Ultrasound CT MR** 1988 Jun;9(3):192–200 (21 ref.)

Congenital and perinatal lesions. Lee BC. **Top Magn Reson Imaging** 1989 Dec;2(1):1–16 (73 ref.)

[Central pontine myelinolysis] Valihrach J, et al. **Cas Lek Cesk** 1989 Nov 3;128(45):1428–9 (Eng. Abstr.) **(Cze)**

[Borrelia burgdorferi infection with bilateral optic neuritis and intracerebral demyelinization lesions] Bialasiewicz AA, et al. **Klin Monatsbl Augenheilkd** 1989 Aug;195(2):91–4 (Eng. Abstr.) **(Ger)**

[Central pontine myelinolysis following severe hyponatremia] Schmidt JA, et al. **Klin Wochenschr** 1990 Feb 1;68(3):191–8 (Eng. Abstr.) **(Ger)**

[Central pontine myelinolysis] Köhler W, et al. **ROFO** 1990 Apr;152(4):469–70 **(Ger)**

[Antemortem diagnosis of Marchiafava–Bignami disease] Shiota J, et al. **Rinsho Shinkeigaku** 1989 Jun;29(6):701–6 (23 ref.) (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

High–dose intravenous methyl–prednisolone in chronic relapsing dysimmune polyneuropathy (CRDP) [letter] Castro–Gago M, et al. **Brain Dev** 1989;11(5):347

Cyclosporin A in the treatment of chronic demyelinating polyradiculoneuropathy. Hodgkinson SJ, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr;53(4):327–30

[Acute demyelinating polyneuropathy in HIV infection treated with zidovudine (letter)] Santos Gil I, et al. **Rev Clin Esp** 1989 Dec;185(9):479–80 **(Spa)**

ETIOLOGY

AIDS–related vacuolar myelopathy is not associated with coinfection by human T–lymphotropic virus type I. Brew BJ, et al. **Ann Neurol** 1989 Nov;26(5):679–81

Central pontine myelinolysis and pontine lesions after rapid correction of hyponatremia: a prospective magnetic resonance imaging study. Brunner JE, et al. **Ann Neurol** 1990 Jan;27(1):61–6

Monoclonal antibody to Theiler's murine encephalomyelitis virus defines a determinant on myelin and oligodendrocytes, and augments demyelination in experimental allergic encephalomyelitis. Yamada M, et al. **J Exp Med** 1990 Jun 1;171(6):1893–907

Progressive demyelinating disease following acute Q fever. Smith CC, et al. **J Infect** 1989 Sep;19(2):153–5

Chronic polyradiculoneuropathy associated with human T–cell lymphotropic virus type I infection [letter] Arakawa K, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr; 53(4):358–9

Treating hyponatremia: damned if we do and damned if we don't [clinical conference] Berl T. **Kidney Int** 1990 Mar; 37(3):1006–18 (113 ref.)

CNS demyelination associated with diploid cell rabies vaccine [letter] Tornatore CS, et al. **Lancet** 1990 Jun 2; 335(8701):1346–7

CPM after liver transplant [letter; comment] Lawrence JA. **Neurology** 1989 Oct;39(10):1405–6 Comment on: Neurology 1989 Apr;39(4):493–8.

Pontine and extrapontine myelinolysis following liver transplantation. Relationship to serum sodium. Wszolek ZK, et al. **Transplantation** 1989 Dec;48(6):1006–12

[4 cases of Guillain–Barré syndrome with axonal lesions] Vallat JM, et al. **Rev Neurol (Paris)** 1990;146(6–7):420–4 (Eng. Abstr.) **(Fre)**

[MR tomography and computer tomography of alcohol–induced brain tissue changes] Ostertun B, et al. **ROFO** 1990 Jan;152(1):87–90 (Eng. Abstr.) **(Ger)**

[Cerebral pathology and hyponatremia. Cerebral damage with central pontine myelinolysis after rapid correction] Biroli F, et al. **Minerva Anestesiol** 1989 Apr;55(4):203–4 (Eng. Abstr.) **(Ita)**

[Chronic toxicity of tobacco smoke on the visual system] Oku H, et al. **Nippon Ganka Gakkai Zasshi** 1989 May; 93(5):617–24 (Eng. Abstr.) **(Jpn)**

[Central pontine myelinolysis followed by frequent hyperglycemia and hypoglycemia—report of an autopsy case] Hattori S, et al. **No To Shinkei** 1989 Aug;41(8):795–8 (Eng. Abstr.) **(Jpn)**

[The role of viral antibodies in the pathogenesis of degenerative and demyelinating diseases] Irkeç C. **Mikrobiyol Bul** 1989 Jan;23(1):40–50 (Eng. Abstr.) **(Tur)**

GENETICS

Developmental regulation of myelin–associated genes in the normal and the myelin deficient mutant rat. Gordon MN, et al. **Adv Exp Med Biol** 1990;265:11–22 (22 ref.)

The dysmyelinating mouse mutations shiverer (shi) and myelin deficient (shimld). Readhead C, et al. **Behav Genet** 1990 Mar;20(2):213–34 (131 ref.)

Expression of viral and myelin gene transcripts in a murine CNS demyelinating disease caused by a coronavirus. Jordan CA, et al. **GLIA** 1989;2(5):318–29

SSIEM Award. Aspartoacylase deficiency: the enzyme defect in Canavan disease. Matalon R, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:329–31

Identification of a locus on mouse chromosome 3 involved in differential susceptibility to Theiler's murine encephalomyelitis virus–induced demyelinating disease. Melvold RW, et al. **J Virol** 1990 Feb;64(2):686–90

IMMUNOLOGY

Gm haplotypes in inflammatory demyelinating polyneuropathies. Feeney DJ, et al. **Ann Neurol** 1989 Dec; 26(6):790–2

Macrophage responses in inflammatory demyelinating neuropathies. Griffin JW, et al. **Ann Neurol** 1990;27 Suppl:S64–8 (30 ref.)

Low–titer antibodies reactive with HTLV–I gag p19 in patients with chronic myeloneuropathy. Kawanishi T, et al. **Ann Neurol** 1989 Oct;26(4):515–22

Immune responses against myelin basic protein and/or galactocerebroside cross–react with viruses: implications for demyelinating disease. Fujinami RS. **Curr Top Microbiol Immunol** 1989;145:93–100 (33 ref.)

Regulation of autoantibodies in inflammatory demyelinating polyneuropathy: spontaneous and therapeutic. Lundkvist I, et al. **Immunol Rev** 1989 Aug;110:105–17 (30 ref.)

Demyelination induced in aggregating brain cell cultures by a monoclonal antibody against myelin/oligodendrocyte glycoprotein. Kerlero de Rosbo N, et al. **J Neurochem** 1990 Aug;55(2):583–7

Class II–restricted T cell responses in Theiler's murine encephalomyelitis virus (TMEV)–induced demyelinating disease. III. Failure of neuroantigen–specific immune tolerance to affect the clinical course of demyelination. Miller SD, et al. **J Neuroimmunol** 1990 Jan;26(1):9–23

Abrogation of resistance to Theiler's virus–induced demyelination in C57BL mice by total body irradiation. Rodriguez M, et al. **J Neuroimmunol** 1990 Mar;26(3):189–99

T lymphocyte activation antigens in Guillain–Barré syndrome and chronic idiopathic demyelinating polyradiculoneuropathy. Taylor WA, et al. **J Neuroimmunol** 1989 Sep;24(1–2):33–9

Major histocompatibility complex class I and class II polymorphism in chronic idiopathic demyelinating polyradiculoneuropathy. Vaughan RW, et al. **J Neuroimmunol** 1990 May;27(2–3):149–53

Theiler's virus–induced demyelination in mice immunosuppressed with anti–IgM and in mice expressing the xid gene. Rodriguez M, et al. **Microb Pathog** 1990 Jan; 8(1):23–35

Complement–mediated demyelination in patients with IgM monoclonal gammopathy and polyneuropathy. Monaco S, et al. **N Engl J Med** 1990 Mar 8;322(10):649–52

Inflammatory demyelinating neuropathy in C57BL/KaLwRij mice. Vital A, et al. **Neuropathol Appl Neurobiol** 1989 Nov–Dec;15(6):543–8

Effect of experimental allergic neuritis serum on normal rat peripheral nerve. Rosen JL, et al. **Pathobiology** 1990; 58(2):95–8

Immunologic mechanisms in chronic demyelinating diseases of the central and peripheral nervous system. Wucherpfennig KW, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990;68:105–16 (51 ref.)

[Immunochemical findings in the cerebrospinal fluid in patients with inflammatory demyelinating polyradiculoneuropathy] Ivanišević V, et al. **Vojnosanit Pregl** 1989 Nov–Dec;46(6):428–30 (Eng. Abstr.) **(Scr)**

METABOLISM

Biochemical pathogenesis of demyelination in globoid cell leukodystrophy (Krabbe's disease): the effects of psychosine upon oligodendroglial cell culture. Ida H, et al. **Acta Paediatr Jpn Overseas Ed** 1990 Feb;32(1):20–6

Receptor alterations associated with spinal motoneuron degeneration in bovine Akabane disease. Gundlach AL, et al. **Ann Neurol** 1990 May;27(5):513–9

Myelin basic protein is affected by reduced synthesis of myelin proteolipid protein in the jimpy mouse. Fannon AM, et al. **Biochem J** 1990 May 15;268(1):105–10

Juvenile multiple sclerosis–like episodes associated with a defect of mitochondrial beta oxidation. Powell BR, et al. **Neurology** 1990 Mar;40(3 Pt 1):487–91

MICROBIOLOGY

Genetic mapping of the ability of Theiler's virus to persist and demyelinate. McAllister A, et al. **J Virol** 1990 Sep; 64(9):4252–7

PATHOLOGY

Blood–brain–barrier and intrathecal immunoglobulin changes in tuberculous meningitis and demyelinating disorders: a preliminary report from a south Indian hospital. Prabhakar S, et al. **Acta Neurol Scand** 1990 May;81(5):448–51

Changes in glial cell markers in recent and old demyelinated lesions in central pontine myelinolysis. Gocht A, et al. **Acta Neuropathol (Berl)** 1990;80(1):46–58

Axonal degeneration of ascending sensory neurons in gracile axonal dystrophy mutant mouse. Kikuchi T, et al. **Acta Neuropathol (Berl)** 1990;80(2):145–51

CAMFAK syndrome: a demyelinating inherited disease similar to Cockayne syndrome. Talwar D, et al. **Am J Med Genet** 1989 Oct;34(2):194–8

Neuropathologic correlates of leuko–araiosis [published erratum appears in Arch Neurol 1990 Mar;47(3):281] Janota I, et al. **Arch Neurol** 1989 Oct;46(10):1124–8

Cochlear nerve degeneration coincident with adrenocerebroleukodystrophy. Igarashi M, et al. **Arch Otolaryngol** 1976 Dec;102(12):722–6

Osmotic stress, osmotic myelinolysis, and oligodendrocyte topography. Riggs JE, et al. **Arch Pathol Lab Med** 1989 Dec;113(12):1386–8

The origin of remyelinating oligodendrocytes in antiserum–mediated demyelinative optic neuropathy. Carroll WM, et al. **Brain** 1990 Aug;113 (Pt 4):953–73

Chronic inflammatory demyelinating polyneuropathy in childhood: ultrastructural features of peripheral nerve biopsies in four cases. Vital A, et al. **Eur J Pediatr** 1990 Jun;149(9):654–8

In vitro analysis of the oligodendrocyte lineage in mice during demyelination and remyelination. Armstrong R, et al. **J Cell Biol** 1990 Sep;111(3):1183–95

In vivo analysis of glial cell phenotypes during a viral demyelinating disease in mice. Godfraind C, et al. **J Cell Biol** 1989 Nov;109(5):2405–16

Myelin disorders of childhood: correlation of MR findings and severity of neurological impairment. Dietrich RB, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):693–8

Comparison of demyelination and neural degeneration in spiral and Scarpa's ganglia of C57BL/6 mice. Cohen GM, et al. **J Electron Microsc Tech** 1990 Jun;15(2):165–72

Schwann cell proliferation following lysolecithin–induced demyelination. Griffin JW, et al. **J Neurocytol** 1990 Jun; 19(3):367–84

Macromolecular structure of axon membrane and action potential conduction in myelin deficient and myelin deficient heterozygote rat optic nerves. Waxman SG, et al. **J Neurocytol** 1990 Feb;19(1):11–28

Focal cranial nerve involvement in chronic inflammatory demyelinating polyneuropathy: clinical and MRI evidence of peripheral and central lesions. Waddy HM, et al. **J Neurol** 1989 Oct;236(7):400–5

Some clinical and pathologic observations on chronic myelopathy: a variant of multiple sclerosis. Weinshenker BG, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb; 53(2):146–9

Early myelin lesions in experimental allergic neuritis. Rosen JL, et al. **Muscle Nerve** 1990 Jul;13(7):629–36

Central lesions in chronic inflammatory demyelinating polyneuropathy: an MRI study. Feasby TE, et al. **Neurology** 1990 Mar;40(3 Pt 1):476–8

Demyelinating changes in sural nerve biopsy of patients with HTLV–I–associated myelopathy. Sugimura K, et al. **Neurology** 1990 Aug;40(8):1263–6

On the specificity of focal thickenings of myelin in peripheral nerves. Drac H. **Neuropatol Pol** 1989;27(2):151–68

[A case of chronic recurrent portal systemic encephalopathy showing marked diurnal fluctuation of blood ammonia level complicated with central pontine myelinolysis] Kario K, et al. **Nippon Naika Gakkai Zasshi** 1989 Aug;78(8):1172–80 **(Jpn)**

[A case of demyelinating disease showing a peculiar honeycomb–like and lamellar structure on magnetic resonance imaging] Miyata K, et al. **Rinsho Shinkeigaku** 1990 Apr;30(4):402–6 (Eng. Abstr.) **(Jpn)**

[Giant axonal neuropathy. Presentation of 2 familial cases] Maravi Petri E, et al. **Neurologia** 1989 Jan–Feb;4(1):24–30 (25 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Immunoglobulins promote remyelination in the central nervous system. Rodriguez M, et al. **Ann Neurol** 1990 Jan; 27(1):12–7

Chronic inflammatory demyelinating polyneuropathy. Conduction failure before and during immunoglobulin or plasma therapy. van der Meché FG, et al. **Brain** 1989 Dec; 112 (Pt 6):1563–71

The relationship between type–1 astrocytes, Schwann cells and oligodendrocytes following transplantation of glial cell cultures into demyelinating lesions in the adult rat spinal cord. Blakemore WF, et al. **J Neurocytol** 1989 Aug; 18(4):519–28

Devic's neuromyelitis optica: long–term follow–up and serial CSF findings in two cases. Piccolo G, et al. **J Neurol** 1990 Jul;237(4):262–4

Resolution of a severe sensorimotor neuropathy following resection of an associated asymptomatic gastric lymphoma [letter] Enevoldson TP, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):267–8

Autonomic function and unmyelinated fibers in chronic inflammatory demyelinating polyradiculoneuropathy. Ingall TJ, et al. **Muscle Nerve** 1990 Jan;13(1):70–6

Ouabain reverses conduction disturbances in single demyelinated nerve fibers. Kaji R, et al. **Neurology** 1989 Oct;39(10):1364–8

[Relation of optic myelitis (OM) and multiple sclerosis (MS)] Tang XF. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Feb; 22(1):23–5, 62 (Eng. Abstr.) **(Chi)**

[Dynamic changes in abnormal afferent activities following peripheral nerve injury] Xiao W, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Apr; 12(2):110–4 (Eng. Abstr.) **(Chi)**

[Mechanisms of repair of the brain, spinal cord and peripheral nerves in relation to resolving problems of demyelination and toxic injury] Vymazal J. **Cesk Neurol Neurochir** 1989 Oct;52(6):356–9 **(Cze)**

[Multifocal polyneuropathy with persistent conduction blockage. A new subset of chronic inflammatory polyneuropathies] Alvarez Vadillo E, et al. **Med Clin (Barc)** 1989 Sep 9;93(6):215–7 (14 ref.) (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Prevention of myelinolysis in rats by dexamethasone or colchicine. Oh MS, et al. **Am J Nephrol** 1990;10(2):158–61

RADIOGRAPHY

[Findings of computed tomography in the acute form of Marchiafava–Bignami disease] López Arlandis JM, et al. **Neurologia** 1990 Feb;5(2):62–4 (Eng. Abstr.) **(Spa)**

SURGERY

The effect of the number of oligodendrocytes transplanted into X–irradiated, glial–free lesions on the extent of oligodendrocyte remyelination. Crang AJ, et al. **Neurosci Lett** 1989 Sep 11;103(3):269–74

THERAPY

High–dose intravenous immunoglobulin in the treatment of demyelinating neuropathy associated with monoclonal gammopathy [see comments] Cook D, et al. **Neurology** 1990 Feb;40(2):212–4 Comment in: Neurology 1990 Feb;40(2):327–8.

Intravenous immunoglobulin in chronic inflammatory demyelinating polyradiculoneuropathy and in neuropathy associated with IgM monoclonal gammopathy of unknown significance [editorial; comment] Dyck PJ. **Neurology** 1990 Feb;40(2):327–8 Comment on: Neurology 1990 Feb;40(2):209–12. Comment on: Neurology 1990 Feb;40(2):212–4.

Immunoglobulin therapy [letter] Steck A. **Neurology** 1990 Sep;40(9):1479

High–dose intravenous immunoglobulin treatment in chronic inflammatory demyelinating polyneuropathy: a double–blind, placebo–controlled, crossover study [see comments] van Doorn PA, et al. **Neurology** 1990 Feb; 40(2):209–12 Comment in: Neurology 1990 Feb;40(2):327–8.

The mechanism of action of intravenous immunoglobulin in patients with chronic inflammatory demyelinating polyneuropathy. Brand A, et al. **Prog Clin Biol Res** 1990; 337:405–9

Long–term plasmapheresis therapy is effective and safe in children with chronic relapsing dysimmune polyneuropathy. Beydoun SR, et al. **Rev Neurol (Paris)** 1990;146(2):123–7

[Chronic inflammatory demyelinating polyradiculoneuropathy of acute onset: relapse after temporary improvement by plasma exchange and longstanding remission by corticosteroid therapy] Iwatsubo T, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):930–2 (Eng. Abstr.) **(Jpn)**

URINE

[Organic aciduria in Canavan disease] Elpeleg ON, et al. **Harefuah** 1989 Dec 1;117(11):366–8 (Eng. Abstr.) **(Heb)**

VETERINARY

Caprine beta–mannosidosis: development of glial and myelin abnormalities in optic nerve and corpus callosum. Lovell KL. **GLIA** 1990;3(1):26–32

DEMYELINATION see **DEMYELINATING DISEASES**

DENDRITES

A rapid procedure for the preparation of oligodendrocyte–enriched cultures from rat spinal cord. van der Pal RH, et al. **Biochim Biophys Acta** 1990 Feb 19;1051(2):159–65

Sexual activity and the morphology of steroid–sensitive rat spinal motoneurons. Beversdorf DQ, et al. **Physiol Behav** 1990 Jan;47(1):11–7

ANALYSIS

Pathological proteins Tau 64 and 69 are specifically expressed in the somatodendritic domain of the degenerating cortical neurons during Alzheimer's disease. Demonstration with a panel of antibodies against Tau proteins. Delacourte A, et al. **Acta Neuropathol (Berl)** 1990;80(2):111–7

Clustering of L–type Ca2+ channels at the base of major dendrites in hippocampal pyramidal neurons. Westenbroek RE, et al. **Nature** 1990 Sep 20;347(6290):281–4

DRUG EFFECTS

Controlled release of nerve growth factor from a polymeric implant. Powell EM, et al. **Brain Res** 1990 May 7; 515(1–2):309–11

Glia–derived nexin potentiates neurite extension in hippocampal pyramidal cells in vitro. Farmer L, et al. **Dev Neurosci** 1990;12(2):73–80

Effect of fluorodeoxyuridine on neurons and non–neuronal cells in cerebral explants. Oorschot DE. **Exp Brain Res** 1989;78(1):132–8

Aluminum affects interconnections between aggregates of cultured hippocampal neurons. Neurotoxicity of aluminum in vitro. van Welsum RA, et al. **J Neurol Sci** 1989 Nov; 93(2–3):157–66

Image analysis of CNS neurotrophic factor effects on neuronal survival and neurite outgrowth. Matsumoto T, et al. **J Neurosci Methods** 1990 Feb;31(2):153–62

[The comparative effect of serotonin agonists on the presynaptic and somatodendritic autoreceptors of serotoninergic neurons] Dolzhenko AT, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):684–6 (Eng. Abstr.) **(Rus)**

[Tetrodotoxin—a sensitive component of the depolarizing response to GABA administration to the pyramidal neuron dendrites of the CA1 field of the hippocampus] Fedorov NB, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):359–62 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Tyrosine hydroxylase gene expression in human ventral mesencephalon: detection of tyrosine hydroxylase messenger RNA in neurites. Dumas S, et al. **J Neurosci Res** 1990 Apr;25(4):569–75

IMMUNOLOGY

Identification of a group of novel membrane proteins unique to chemosensory cilia of olfactory receptor cells. Anholt RR, et al. **Biochemistry** 1990 Apr 3;29(13):3366–73

METABOLISM

Dynorphin A(1–8) immunoreactive cell bodies, dendrites and terminals are postsynaptic to calcitonin gene–related peptide primary afferent terminals in the monkey dorsal horn. Carlton SM, et al. **Brain Res** 1989 Dec 11; 504(1):124–8

5–hydroxytryptamine immunoreactive varicosities in the lamprey spinal cord have no synaptic specializations—an ultrastructural study. Christenson J, et al. **Brain Res** 1990 Apr 2;512(2):201–9

Changes in levels of microtubule–associated proteins in relation to the outgrowth of neurites from PC12D cells, a forskolin– and nerve growth factor–responsive subline of PC12 pheochromocytoma cells. Sano M, et al. **Brain Res** 1990 Mar 5;510(2):269–76

Amyloid beta–protein precursor accumulates in dystrophic neurites of senile plaques in Alzheimer–type dementia. Shoji M, et al. **Brain Res** 1990 Mar 26;512(1):164–8

The dendritic dopamine projection of the substantia nigra: phenotypic denominator of weaver gene action in hetero– and homozygosity. Triarhou LC, et al. **Brain Res** 1989 Nov 6;501(2):373–81

Absence of brain spectrin(240/235) in dendrites of mammalian brain. Zagon IS, et al. **Brain Res Bull** 1989 Jul–Aug;23(1–2):19–24

Dendritic growth of DAPI–accumulating amacrine cells in the retina of the goldfish. Brown RN Jr, et al. **Brain Res Dev Brain Res** 1989 Nov 1;50(1):123–8

The expression of acetylated microtubules during axonal and dendritic growth in cerebellar macroneurons which develop in vitro. Ferreira A, et al. **Brain Res Dev Brain Res** 1989 Oct 1;49(2):205–13

Microtubule formation and neurite growth in cerebellar macroneurons which develop in vitro: evidence for the involvement of the microtubule–associated proteins, MAP–1a, HMW–MAP2 and Tau. Ferreira A, et al. **Brain Res Dev Brain Res** 1989 Oct 1;49(2):215–28

Direct visualisation of the soluble pool of tubulin in the neuronal growth cone: immunofluorescence studies following taxol polymerisation. Gordon–Weeks PR, et al. **Brain Res Dev Brain Res** 1989 Oct 1;49(2):305–10

Stabilization of tubulin mRNAs by insulin and insulin–like growth factor I during neurite formation. Fernyhough P, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2–3):109–20

Specific binding of insulin to membranes from dendrodendritic synaptosomes of rat olfactory bulb. Matsumoto H, et al. **J Neurochem** 1990 Jan;54(1):347–50

Dendritic transport: quantitative analysis of the time course of somatodendritic transport of recently synthesized RNA. Davis L, et al. **J Neurosci** 1990 Sep;10(9):3056–68

EGF–induced neuritogenesis and correlated synthesis of plasma membrane gangliosides in cultured embryonic chick CNS neurons. Rosenberg A, et al. **J Neurosci Res** 1989 Dec;24(4):531–6

Presence of neuropeptide messenger RNAs in neuronal processes. Bloch B, et al. **Neurosci Lett** 1990 Feb 16; 109(3):259–64

Microtubule–associated protein 2 as a sensitive marker for cerebral ischemic damage—immunohistochemical investigation of dendritic damage. Kitagawa K, et al. **Neuroscience** 1989;31(2):401–11

MICROBIOLOGY

Polarized sorting of viral glycoproteins to the axon and dendrites of hippocampal neurons in culture. Dotti CG, et al. **Cell** 1990 Jul 13;62(1):63–72

PATHOLOGY

Down's syndrome and Alzheimer's disease: dendritic spine counts in the hippocampus. Ferrer I, et al. **Acta Neuropathol (Berl)** 1990;79(6):680–5

Comparison of three silver stains for demonstrating neurofibrillary tangles and neuritic plaques in brain tissue stored for long periods. Wilcock GK, et al. **Acta Neuropathol (Berl)** 1990;79(5):566–8

Metric analysis of hippocampal granule cell dendritic trees after alcohol withdrawal in rats. Cadete–Leite A, et al. **Alcoholism (N Y)** 1989 Dec;13(6):837–40

Microtubular reorganization and dendritic growth response in Alzheimer's disease. McKee AC, et al. **Ann Neurol** 1989 Nov;26(5):652–9

Initiation and growth of ectopic neurites and meganeurites during postnatal cortical development in ganglioside storage disease. Walkley SU, et al. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):167–78

Modifications in number and morphology of dendritic spines resulting from chronic ethanol consumption and withdrawal: a Golgi study in the mouse anterior and posterior hippocampus. Lescaudron L, et al. **Exp Neurol** 1989 Nov;106(2):156–63

Dietary restriction suppresses age–related changes in

dendritic spines. Moroi-Fetters SE, et al. **Neurobiol Aging** 1989 Jul–Aug;10(4):317–22 (48 ref.)

Evidence for nonrandom regression of dendrites of Purkinje neurons during aging. Quackenbush LJ, et al. **Neurobiol Aging** 1990 Mar–Apr;11(2):111–5

[Neurohistological study of the dendrites of lamina V–pyramidal neurons of the rat following recovery from postnatal malnutrition] Schönheit B, et al. **J Hirnforsch** 1989;30(4):385–97 (Eng. Abstr.) **(Ger)**

[Quantitative study of the dendritic spins of lamina V pyramidal neurons of the frontal lobe in children with severe mental retardation] von Bossányi P, et al. **J Hirnforsch** 1990;31(2):181–92 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Variation in electrophysiology and morphology of hippocampal CA3 pyramidal cells. Bilkey DK, et al. **Brain Res** 1990 Apr 23;514(1):77–83

Evaluation of blood vessel and neurite growth into a collagen matrix placed within a surgically created gap in rat spinal cord. Gelderd JB. **Brain Res** 1990 Mar 12;511(1):80–92

Is the function of dendritic spines to concentrate calcium? Holmes WR. **Brain Res** 1990 Jun 11;519(1–2):338–42

Spine density on neostriatal neurones changes with 6-hydroxydopamine lesions and with age. Ingham CA, et al. **Brain Res** 1989 Dec 4;503(2):334–8

Developmental sex differences and effect of ovariectomy on the number of cortical pyramidal cell dendritic spines. Muñoz-Cueto JA, et al. **Brain Res** 1990 May 7; 515(1–2):64–8

Neuritogenesis in cerebellar granule cells in vitro: a role for protein kinase C. Cambray-Deakin MA, et al. **Brain Res Dev Brain Res** 1990 Apr 1;53(1):40–6

The effect of dark-rearing on dendritic development in two regions of the forebrain of the domestic chick. Galal KM, et al. **Brain Res Dev Brain Res** 1990 Apr 1;53(1):135–8

Regional differences in the timing of dendritic outgrowth of Purkinje cells in the vermal cerebellum demonstrated by MAP2 immunocytochemistry. Goodlett CR, et al. **Brain Res Dev Brain Res** 1990 Apr 1;53(1):131–4

Selective growth of hippocampal neurites on cryostat sections of rat brain. Khan U, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):87–92

Basal lamina enhances hippocampal neurite outgrowth in vitro. Nakayama T, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):145–9

Dendritic growth and regression in rat dentate granule cells during late postnatal development. Rihn LL, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):115–24

Cell attachment and neurite stability in NG108-15 cells: effects of 5'-deoxy, 5'-methyl thioadenosine (MTA) compared with laminin, kinase inhibitor H-7, and Mn2+ ions. Smalheiser NR. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):153–60

Effects of preweaning environmental enrichment on basilar dendrites of pyramidal neurons in occipital cortex: a Golgi study. Venable N, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):140–4

Transfection of PC12 cells with the human GAP–43 gene: effects on neurite outgrowth and regeneration. Yankner BA, et al. **Brain Res Mol Brain Res** 1990 Jan;7(1):39–44

Role of peripheral nerve extracellular matrix in Schwann cell function and in neurite regeneration. Bunge MB, et al. **Dev Neurosci** 1989;11(4–5):348–60 (67 ref.)

Exclusionary dendritic interactions in the retina of the goldfish. Hitchcock PF. **Development** 1989 Jul; 106(3):589–98

Anatomy of soleus alpha-motoneurone dendrites in normal cats and in cats subjected to chronic postnatal tenotomy or overload of the soleus muscle. Gollvik L, et al. **Exp Brain Res** 1990;80(1):34–43

Neuronal–glial interactions: complexity of neurite outgrowth correlates with substrate adhesivity of serotonergic neurons. Lieth E, et al. **GLIA** 1990;3(3):169–79

Effects of calcium ion on neurite outgrowth of rat spinal cord neurons in vitro: the role of non-neuronal cells in regulating neurite sprouting. Hantaz-Ambroise D, et al. **Int J Dev Neurosci** 1989;7(6):591–602

Survival and neuritic growth of sympathoadrenal (chromaffin) precursor cells in vitro. Seidl K, et al. **Int J Dev Neurosci** 1989;7(5):465–73

Trophic effects of cholecystokinin and calcitonin gene-related peptide on ventral spinal cord in culture. Iwasaki Y, et al. **Int J Neurosci** 1989 Oct;48(3–4):285–9

Neurotrophic action of autopsied ventral spinal cord extracts in patients with amyotrophic lateral sclerosis on the ventral spinal cord of rat embryo. Iwasaki Y, et al. **Int J Neurosci** 1989 Oct;48(3–4):291–6

Changes in microtubule polarity orientation during the development of hippocampal neurons in culture. Baas PW, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):3085–94

Innervation and geometry of rabbit ciliary ganglion cells after preganglionic nerve regeneration. Hadley RD. **J Comp Neurol** 1990 May 8;295(2):268–76

Early axon and dendritic outgrowth of spinal accessory motor neurons studied with DiI in fixed tissues. Snider WD, et al. **J Comp Neurol** 1990 Jul 8;297(2):227–38

Target dependence of chick retinal ganglion cells during embryogenesis: cell survival and dendritic development. Vanselow J, et al. **J Comp Neurol** 1990 May 8;295(2):235–47

Dendritic maturation of displaced putative cholinergic amacrine cells in the rabbit retina. Wong RO, et al. **J Comp Neurol** 1989 Sep 8;287(2):164–78

Frequency-dependent and cell-specific effects of electrical activity on growth cone movements of cultured Helisoma neurons. Cohan CS. **J Neurobiol** 1990 Apr;21(3):400–13

Eliminating afferent impulse activity does not alter the dendritic branching of the amphibian Mauthner cell. Goodman LA, et al. **J Neurobiol** 1990 Mar;21(2):283–94

Developmental maps of acetylcholinesterase and G4–antigen of the early chicken brain: long-distance tracts originate from AChE-producing cell bodies. Weikert T, et al. **J Neurobiol** 1990 Apr;21(3):482–98

Voltage behavior along the irregular dendritic structure of morphologically and physiologically characterized vagal motoneurons in the guinea pig. Nitzan R, et al. **J Neurophysiol** 1990 Feb;63(2):333–46

Androgen regulation of dendritic growth and retraction in the development of a sexually dimorphic spinal nucleus. Goldstein LA, et al. **J Neurosci** 1990 Mar;10(3):935–46

The spatial distribution of excitatory and inhibitory inputs to ganglion cell dendrites in the tiger salamander retina. Lukasiewicz PD, et al. **J Neurosci** 1990 Jan;10(1):210–21

Size and remoteness: two relatively independent parameters of dendrites, as studied for spinal motoneurones of the cat. Kernell D, et al. **J Physiol (Lond)** 1989 Jun;413:233–54

Dendrites of cat's spinal motoneurones: relationship between stem diameter and predicted input conductance. Kernell D, et al. **J Physiol (Lond)** 1989 Jun;413:255–69

A non-uniform equivalent cable model of membrane voltage changes in a passive dendritic tree. Schierwagen AK. **J Theor Biol** 1989 Nov 21;141(2):159–79

Neurite outgrowth and the amyloid protein precursor. Hammond DN. **Neurobiol Aging** 1989 Sep–Oct;10(5):575–6; discussion 588–90

A theoretical analysis of extracellular punctate stimulation around dendrites. Hentall ID. **Neuroscience** 1989; 33(1):11–22

Effects of space flight on dendrites of the neurons of the rat's brain. Belichenko PV, et al. **Physiologist** 1990 Feb;33(1 Suppl):S12–5

Spatial and temporal analysis of calcium-dependent electrical activity in guinea pig Purkinje cell dendrites. Ross WN, et al. **Proc R Soc Lond [Biol]** 1990 May 22;240(1297):173–85

Analysis and numerical solution of the dendrite equation with synapses applied to cochlear neurons. Winslow JL. **Prog Neurobiol** 1990;34(2):91–105 (51 ref.)

Structural alterations of dendritic spines induced by neural degeneration of their presynaptic afferents. Benshalom G. **Synapse** 1989;4(3):210–22

Dendrite processing in more ways than one . Hounsgaard J, et al. **Trends Neurosci** 1989 Sep;12(9):313–5 (19 ref.)

[Biology of the nerve growth cone] Igarashi M. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):464–79 **(Jpn)**

[Shape and amplitude of stimulating postsynaptic potentials in a neuronal model with an N-shaped volt–ampere characteristic of the dendritic membrane] Baginskas A, et al. **Biofizika** 1989 Sep–Oct;34(5):863–7 (Eng. Abstr.) **(Rus)**

[The participation of cholinergic mechanisms in the origin of the dendritic potential of the cerebral cortex] Gedevanishvili GI. **Fiziol Zh SSSR** 1990 Feb;76(2):145–51 (Eng. Abstr.) **(Rus)**

SECRETION

Dendrites of hypothalamic magnocellular neurons release neurohypophysial peptides by exocytosis. Pow DV, et al. **Neuroscience** 1989;32(2):435–9

ULTRASTRUCTURE

Bunina bodies in dendrites of patients with amyotrophic lateral sclerosis. Kuroda S, et al. **Acta Med Okayama** 1990 Feb;44(1):41–5

Dendritic changes in the hippocampus of aged rats. Lolova I. **Acta Morphol Hung** 1989;37(1–2):3–10

Effects of chronic ethanol consumption beginning at adolescence: increased numbers of dendritic spines on cortical pyramidal cells in the adulthood. Ferrer I, et al. **Acta Neuropathol (Berl)** 1989;78(5):528–32

Light microscopical study of dendrites and perikarya of interneurones mediating la reciprocal inhibition of cat lumbar alpha-motoneurones. Rastad J, et al. **Anat Embryol (Berl)** 1990;181(4):381–8

The ontogeny of dendrite bundles in rabbit visual cortex. Schmolke C. **Anat Embryol (Berl)** 1989;180(4):371–81

Dendritic morphology and retinal distribution of tyrosine hydroxylase-like immunoreactive amacrine cells in Bufo marinus. Zhu B, et al. **Anat Embryol (Berl)** 1990; 181(4):365–71

Synapses, axonal and dendritic patterns of GABA-immunoreactive neurons in human cerebral cortex. Kisvárday ZF, et al. **Brain** 1990 Jun;113 (Pt 3):793–812 (143 ref.)

A quantitative study of dendrite complexity in selected areas of the human cerebral cortex. Scheibel A, et al. **Brain Cogn** 1990 Jan;12(1):85–101

A columnar arrangement of dendritic processes of entorhinal cortex neurons revealed by a monoclonal antibody. Ikeda J, et al. **Brain Res** 1989 Dec 25;505(1):176–9

Evidence for the presence of presynaptic dendrites and GABA-immunogold labeled synaptic boutons in the monkey basilar pontine nuclei. Mihailoff GA, et al. **Brain Res** 1990 May 14;516(1):141–6

Dendritic arborization in the human fetus and infant with the trisomy 18 syndrome. Jay V, et al. **Brain Res Dev Brain Res** 1990 Jul 1;54(2):291–4

Gender differences in the dendritic tree of granule neurons in the hippocampal dentate gyrus of weaning age rats. Juraska JM. **Brain Res Dev Brain Res** 1990 May 1; 53(2):291–4

Ultrastructure of individual neurons isolated from avian retina: occurrence of microtubule loops in dendrites. Lankford KL, et al. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):217–24

Laminin and a basement membrane extract have different effects on axonal and dendritic outgrowth from embryonic rat sympathetic neurons in vitro. Lein PJ, et al. **Dev Biol** 1989 Dec;136(2):330–45

Structural inhomogeneity in the neuropil of lamina II/III in rabbit visual cortex. Schmolke C, et al. **Exp Brain Res** 1989;77(1):39–47

Deprived somatosensory-motor experience in stumptailed monkey neocortex: dendritic spine density and dendritic branching of layer IIIB pyramidal cells [published erratum appears in J Comp Neurol 1989 Nov 22;289(4):709] Bryan GK, et al. **J Comp Neurol** 1989 Aug 8;286(2):208–17

Studies of the dendritic tree of wild-type cerebellar Purkinje cells in lurcher chimeric mice. Caddy KW, et al. **J Comp Neurol** 1990 Jul 1;297(1):121–31

Anatomy of the rat medial geniculate body: II. Dendritic morphology. Clerici WJ, et al. **J Comp Neurol** 1990 Jul 1;297(1):32–54

Dendritic morphology and development in the ferret medial superior olivary nucleus. Henkel CK, et al. **J Comp Neurol** 1990 Apr 15;294(3):377–88

Thyrotropin-releasing hormone-immunoreactive nerve terminals synapse on the dendrites of gastric vagal motoneurons in the rat. Rinaman L, et al. **J Comp Neurol** 1990 Apr 8;294(2):235–51

Dendritic morphology of central auditory neurons correlates with their tonotopic position. Sanes DH, et al. **J Comp Neurol** 1990 Apr 15;294(3):443–54

Trauma-induced Golgi-like staining of neurons: a new approach to neuronal organization and response to injury. van den Pol AN, et al. **J Comp Neurol** 1990 Jun 22; 296(4):654–73

Dendritic bundling in layer I of granular retrosplenial cortex: intracellular labeling and selectivity of innervation. Wyss JM, et al. **J Comp Neurol** 1990 May 1;295(1):33–42

Ultrastructure of neurons and their synaptic contacts in the medial septal nucleus of the rat. Brauer K, et al. **J Hirnforsch** 1990;31(1):123–32

Dendritic distributions of motor neurons innervating fast and slow muscles of the hind limb of rats. Mong FS. **J Hirnforsch** 1990;31(2):259–67

Dendritic varicosities [letter; comment] Troost D. **J Neurol Sci** 1989 Dec;94(1–3):325–6 Comment on: J Neurol Sci 1989 Jan;89(1):93–101.

Gonadal steroids regulate dendritic spine density in hippocampal pyramidal cells in adulthood. Gould E, et al. **J Neurosci** 1990 Apr;10(4):1286–91

Applicability of fixed brain slice for ultrastructural study. Lin CS. **J Neurosci Methods** 1990 May;32(2):117–21

A system for the reconstruction and analysis of dendritic fields. Lowndes M, et al. **J Neurosci Methods** 1990 Mar; 31(3):235–45

Ultrastructural studies of the peripheral extensions (dendrites) of type I ganglion cells in the cat. Goycoolea MV, et al. **Laryngoscope** 1990 Feb;100(2 Pt 2 Suppl 50):19–24

Organization of microtubules in dendrites and axons is determined by a short hydrophobic zipper in microtubule-associated proteins MAP2 and tau. Lewis SA, et al. **Nature** 1989 Nov 30;342(6249):498–505

Gonadal steroids modify dendritic spine density in ventromedial hypothalamic neurons: a Golgi study in the adult rat. Frankfurt M, et al. **Neuroendocrinology** 1990 May; 51(5):530–5

Early axonal contacts during development of an identified dendrite in the brain of the zebrafish. Kimmel CB, et al. **Neuron** 1990 Apr;4(4):535–45

Dendritic development of motor neurons in the cervical anterior horn and hypoglossal nucleus of normal infants and victims of sudden infant death syndrome. Takashima S, et al. **Neuropediatrics** 1990 Feb;21(1):24–6

Motoneurons innervating the external anal and urethral sphincters of the female cat have different patterns of dendritic arborization. Beattie MS, et al. **Neurosci Lett** 1990 Mar 26;111(1–2):69–74

Fractal analysis of ganglion cell dendritic branching patterns of the rat and cat retinae. Morigiwa K, et al. **Neurosci Res Suppl** 1989;10:S131–9

Mesodiencephalic and cerebellar terminals terminate upon the same dendritic spines in the glomeruli of the cat and rat inferior olive: an ultrastructural study using a combination of [3H]leucine and wheat germ agglutinin coupled horseradish peroxidase anterograde tracing. de Zeeuw CI, et al. **Neuroscience** 1990;34(3):645–55

Looking into growth cones. Goldberg DJ, et al. **Trends Neurosci** 1989 Dec;12(12):503–6 (38 ref.)

[Dendrite-free GABAergic neurons of the visual system in the rat] Hedlich A, et al. **J Hirnforsch** 1990;31(2):137–51 (Eng. Abstr.) **(Ger)**

[Changes in dendrites in disease and aging] Frýdl V, et al. **ZFA** 1989 Nov–Dec;44(6):345–52, 358 (48 ref.) (Eng.

Abstr.) (Ger)
[Structural analysis of the reactivity of the cerebral cortex plexiform layer under the influence of extreme conditions] Kositsyn NS, et al. **Biull Eksp Biol Med** 1990 May; 109(5):486–9 (Eng. Abstr.) (Rus)
[The ultrastructure of the spines on serial sections of the rat cerebral cortex] Luk'ianova EL. **Tsitologiia** 1989 Oct; 31(10):1176–9 (Eng. Abstr.) (Rus)

DENDRITIC CELLS

The cryobiology of rat and human dendritic cells: preservation and destruction of membrane integrity by freezing. Taylor MJ, et al. **Cryobiology** 1990 Jun; 27(3):269–78
Mononuclear phagocytic and dendritic cell systems. Moschella SL, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1091–7 (41 ref.)
Microglial cells in human brain have phenotypic characteristics related to possible function as dendritic antigen presenting cells. Lowe J, et al. **J Pathol** 1989 Oct; 159(2):143–9

ANALYSIS

Properties of lymph-borne (veiled) dendritic cells in culture. II. Expression of the IL-2 receptor: role of GM-CSF. MacPherson GG, et al. **Immunology** 1989 Sep;68(1):108–13

CYTOLOGY

Both epidermal dendritic cell populations, Langerhans' cells and Thy 1+ dendritic cells are simultaneously stained by an Lyt-1 monoclonal antibody. Shiohara T, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):60–2
Dendritic cells of the lymphoepithelial organs. Törö I, et al. **Acta Morphol Hung** 1989;37(1–2):29–46 (32 ref.)
Effect of genetically determined immunodeficiency on epidermal dendritic cell populations in C57BL/6J mice. Sprecher E, et al. **Arch Dermatol Res** 1990;282(3):188–93
Differentiation of interdigitating reticulum cells and Langerhans cells in the human skin with T-lymphoid infiltrate. An immunocytochemical and ultrastructural study. Bani D, et al. **Arch Histol Cytol** 1989 Oct; 52(4):361–72
Identification of hematopoietic progenitors of macrophages and dendritic Langerhans cells (DL-CFU) in human bone marrow and peripheral blood. Reid CD, et al. **Blood** 1990 Sep 15;76(6):1139–49
The localization of macrophage subsets and dendritic cells in the gastrointestinal tract of the mouse with special reference to the presence of high endothelial venules. An immuno- and enzyme-histochemical study. Soesatyo M, et al. **Cell Tissue Res** 1990 Mar;259(3):587–93
Accessory cells with a morphology and marker pattern of dendritic cells can be obtained from elutriator-purified blood monocyte fractions. An enhancing effect of metrizamide in this differentiation. Kabel PJ, et al. **Immunobiology** 1989 Oct;179(4–5):395–41
A contiguous network of dendritic antigen-presenting cells within the respiratory epithelium. Holt PG, et al. **Int Arch Allergy Appl Immunol** 1990;91(2):155–9
Characterization of murine lung dendritic cells: similarities to Langerhans cells and thymic dendritic cells. Pollard AM, et al. **J Exp Med** 1990 Jul 1;172(1):159–67
Characterization of the tissue macrophage and the interstitial dendritic cell as distinct leukocytes normally resident in the connective tissue of rat heart. Spencer SC, et al. **J Exp Med** 1990 Jun 1;171(6):1841–51
Effect of aging on epidermal dendritic cell populations in C57BL/6J mice. Sprecher E, et al. **J Invest Dermatol** 1990 Feb;94(2):247–53
TCR gamma/delta+ dendritic epidermal T cells as constituents of skin-associated lymphoid tissue. Tigelaar RE, et al. **J Invest Dermatol** 1990 Jun;94(6 Suppl):58S–63S (63 ref.)
Thymus of Rana perezi: presence of interdigitating cells. Alvarez R. **J Morphol** 1990 Jun;204(3):305–12
Origin of Thy-1+ dendritic epidermal cells of adult mice from fetal thymic precursors. Havran WL, et al. **Nature** 1990 Mar 1;344(6261):68–70
Dendritic cell ontogeny. Bowers WE, et al. **Res Immunol** 1989 Nov-Dec;140(9):880–3; discussion 918–26 (20 ref.)
Structural and functional relationships between epidermal Langerhans cells and dendritic cells. Romani N, et al. **Res Immunol** 1989 Nov-Dec;140(9):895–8; discussion 918–26 (15 ref.)
Rat cardiac dendritic cells: frequency in inbred and congeneic rats. Darden AG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):208
Dendritic accessory cells in the pregnant and nonpregnant rat uterus. Head JR, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):565–6

DRUG EFFECTS

The effect of photochemotherapy with 4,4',6 trimethylangelicin on murine cutaneous immune cells. Alcalay J, et al. **Br J Dermatol** 1990 Jan;122(1):9–14
Granulocyte-macrophage colony-stimulating factor promotes differentiation and survival of human peripheral blood dendritic cells in vitro. Markowicz S, et al. **J Clin Invest** 1990 Mar;85(3):955–61
Low-dose immunosuppression by cyclosporine operating via antigen-presenting dendritic cells. Roberts MS, et al. **Transplantation** 1990 Jul;50(1):91–5

ENZYMOLOGY

The major source of endogenous prostaglandin D2 production is likely antigen-presenting cells. Localization of glutathione-requiring prostaglandin D synthetase in histiocytes, dendritic, and Kupffer cells in various rat tissues. Urade Y, et al. **J Immunol** 1989 Nov 1;143(9):2982–9

IMMUNOLOGY

Thyroid infiltrating dendritic cells, epitheloid cells and giant cells in iodine deficiency. Dimal P, et al. **Acta Med Austriaca** 1990;17 Suppl 1:43
Control of the immune response at the level of antigen-presenting cells: a comparison of the function of dendritic cells and B lymphocytes. Metlay JP, et al. **Adv Immunol** 1989;47:45–116 (299 ref.)
Immune complexes on follicular dendritic cells as a target for cytolytic cells in AIDS [letter] Laman JD, et al. **AIDS** 1989 Aug;3(8):543–4
The role of graft-derived dendritic leukocytes in the rejection of vascularized organ allografts. Recent findings on the migration and function of dendritic leukocytes after transplantation. Larsen CP, et al. **Ann Surg** 1990 Sep; 212(3):308–15; discussion 316–7 (54 ref.)
Differences in responses of normal and rheumatoid arthritis peripheral blood T cells to synovial fluid and peripheral blood dendritic cells in allogeneic mixed leukocyte reactions. Bergroth V, et al. **Arthritis Rheum** 1989 Nov; 32(11):1381–9
Characterization of factor XIIIa positive dermal dendritic cells in normal and inflamed skin. Cerio R, et al. **Br J Dermatol** 1989 Oct;121(4):421–31
Identification of an Mr 70,000 antigen associated with Reed-Sternberg cells and interdigitating reticulum cells. Hsu PL, et al. **Cancer Res** 1990 Jan 15;50(2):350–7
The effects of genetics and age on expression of MHC class II and CD4 antigens on rat cardiac interstitial dendritic cells. Darden AG, et al. **Cell Immunol** 1990 Apr 1; 126(2):322–30
The frequency of mouse spleen dendritic cells which present alloantigens or ovalbumin to primed T lymphocytes is equal. Goodacre JA, et al. **Cell Immunol** 1990 Apr 1; 126(2):406–13
Ia-positive dendritic cells form a tightly meshed network within the human airway epithelium. Holt PG, et al. **Clin Exp Allergy** 1989 Nov;19(6):597–601
Class II antigens on dendritic cells from the synovial fluids of patients with inflammatory arthritis. Knight SC, et al. **Clin Exp Immunol** 1989 Oct;78(1):19–25
Isolation and antigenic profile of follicular dendritic cells. Sellheyer K, et al. **Clin Exp Immunol** 1989 Dec;78(3):431–6
Dendritic cells and class II MHC expression on thyrocytes during the autoimmune thyroid disease of the BB rat. Voorby HA, et al. **Clin Immunol Immunopathol** 1990 Apr; 55(1):9–22
The restrictive role of sialic acid in antigen presentation to a subset of human peripheral CD4+ T lymphocytes that requires antigen-presenting dendritic cells. Kapsenberg ML, et al. **Eur J Immunol** 1989 Oct;19(10):1829–34
Human thymic dendritic cell-thymocyte association: ultrastructural cell phenotype analysis. Landry D, et al. **Eur J Immunol** 1989 Oct;19(10):1855–60
Antigenic phenotyping of human follicular dendritic cells isolated from nonmalignant and malignant lymphatic tissue. Petrasch S, et al. **Eur J Immunol** 1990 May;20(5):1013–8
Autoreactive T cells in normal mice: unrestricted recognition of self peptides on dendritic cell I-A molecules by CD4-CD8- T cell receptor alpha/beta+ T cell clones expressing V beta 8.1 gene segments. Seman M, et al. **Eur J Immunol** 1990 Jun;20(6):1265–72
Conditioned medium from activated rat macrophages and the recombinant factors, IL-1 beta and GM-CSF, enhance the accessory activity of dendritic cells. Bowers WE, et al. **Immunobiology** 1990 Jun;180(4–5):362–84
Some properties of dendritic macrophages from peripheral lymph. Barfoot R, et al. **Immunology** 1989 Oct;68(2):233–9
Isolation and characterization of antigen-presenting dendritic cells from the mouse intestinal lamina propria. Pavli P, et al. **Immunology** 1990 May;70(1):40–7
Anti-leucocyte common (CD45) antibodies inhibit dendritic cell stimulation of CD4 and CD8 T-lymphocyte proliferation. Prickett TC, et al. **Immunology** 1990 Feb; 69(2):250–6
Comparison of antigen uptake by peritoneal macrophages and veiled cells from the thoracic duct using isotope-, FITC-, or gold-labelled antigen. Rhodes JM, et al. **Immunology** 1989 Nov;68(3):403–9
Assessment of the functional activity of antigen-bearing dendritic cells isolated from the lymph nodes of contact-sensitized mice. Jones DA, et al. **Int Arch Allergy Appl Immunol** 1989;90(3):230–6
Characterization of sheep afferent lymph dendritic cells and their role in antigen carriage. Bujdoso R, et al. **J Exp Med** 1989 Oct 1;170(4):1285–301
Dendritic cells are the principal cells in mouse spleen bearing immunogenic fragments of foreign proteins. Crowley M, et al. **J Exp Med** 1990 Jul 1;172(1):383–6
In vivo modulation of CD1 and MHC class II expression by sheep afferent lymph dendritic cells. Comparison of primary and secondary immune responses. Hopkins J, et al. **J Exp Med** 1989 Oct 1;170(4):1303–18
Dendritic cells pulsed with protein antigens in vitro can prime antigen-specific, MHC-restricted T cells in situ. Inaba K, et al. **J Exp Med** 1990 Aug 1;172(2):631–40
The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. Metlay JP, et al. **J Exp Med** 1990 May 1;171(5):1753–71
Dendritic cells stimulate primary human cytolytic lymphocyte responses in the absence of CD4+ helper T cells. Young JW, et al. **J Exp Med** 1990 Apr 1; 171(4):1315–32
Accessory function of human thymic dendritic cells in Con A-induced proliferation of autologous thymocyte subsets. Landry D, et al. **J Immunol** 1990 Feb 1;144(3):836–43
Murine Thy-1+ dendritic epidermal cells induce immunologic tolerance in vivo. Welsh EA, et al. **J Immunol** 1990 Feb 1;144(3):883–91
Induction of antigen expression of follicular dendritic cells in a monoblastic cell line. A contribution to its cellular origin. Fliedner A, et al. **J Pathol** 1990 May;161(1):71–7
Dendritic cells and high endothelial venules in the rheumatoid synovial membrane. van Dinther-Janssen AC, et al. **J Rheumatol** 1990 Jan;17(1):11–7
28th Forum in Immunology. Lymphoid dendritic cells: their life history and roles in immune responses. **Res Immunol** 1989 Nov-Dec;140(9):877–926
Dendritic cells in contact sensitivity. Knight SC. **Res Immunol** 1989 Nov-Dec;140(9):907–10; discussion 918–26 (29 ref.)
Immunocytochemistry of dendritic cells. A clue to their function? Kraal G. **Res Immunol** 1989 Nov-Dec; 140(9):891–5; discussion 918–26 (22 ref.)
What don't we know about dendritic cells? MacPherson GG. **Res Immunol** 1989 Nov-Dec;140(9):877–80; discussion 918–26 (2 ref.)
Dendritic cells as specialized antigen-presenting cells. Melief CJ. **Res Immunol** 1989 Nov-Dec;140(9):902–6; discussion 918–26 (29 ref.)
Dendritic cells: clinical aspects. Steinman RM. **Res Immunol** 1989 Nov-Dec;140(9):911–8; discussion 918–26 (61 ref.)
Dendritic cells in the blood transfusion effect. Austyn JM, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1434
Immunogenic potential of capillary bed components in rat renal allografts. Halttunen J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):242–3
Modified graft rejection by transfusion of the donor: a role for dendritic cells. Heineman E, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1470–2
Effect of cyclosporine and retinoic acid on dendritic cell function. Knight SC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):320
Effect of isolated and purified splenic dendritic cells (antigen presenting cells) on initiation of islet allograft rejection. Moore WV, et al. **Transplant Proc** 1990 Apr;22(2):838–40
Labelling of class II positive dendritic cells by ex vivo perfusion of murine small bowel grafts prior to transplantation. Stangl MJ, et al. **Transplant Proc** 1990 Aug; 22(4):2062–3
The potency of splenic dendritic cells as alloantigen presenters in vivo. Quantitation of the number of cells required to achieve graft rejection. Setum CM, et al. **Transplantation** 1990 Jun;49(6):1175–7
[Dendritic cell involvement in the acquired immunodeficiency syndrome] Sprecher E, et al. **Harefuah** 1989 Dec 15;117(12):461–4 (46 ref.) (Heb)
[Surface markers and function of T cells forming clusters with autologous dendritic cells] Imai F, et al. **Arerugi** 1990 Mar;39(3):361–4 (Eng. Abstr.) (Jpn)

METABOLISM

The detection of human immunodeficiency virus DNA in dendritic cells from the joints of patients with aseptic arthritis. Hughes RA, et al. **Br J Rheumatol** 1990 Jun; 29(3):166–70
Cells with dendritic morphology and bright interleukin-1 alpha staining circulate in the blood of patients with rheumatoid arthritis. Barkley DE, et al. **Clin Exp Immunol** 1990 Apr;80(1):25–31
Use of colloidal silica (Sepracell-MN) for enrichment of dendritic cells from human peripheral blood: comparison with other methods. Chehimi J, et al. **J Leukoc Biol** 1990 Jul;48(1):74–80
Human peripheral blood-derived dendritic cells do not produce interleukin 1 alpha, interleukin 1 beta, or interleukin 6. Vakkila J, et al. **Scand J Immunol** 1990 Mar; 31(3):345–52
Dendritic reticulum cell-related immunostaining for laminin in follicular and diffuse B-cell lymphomas. Gloghini A, et al. **Virchows Arch [A]** 1990;416(3):197–204

MICROBIOLOGY

HIV-1 infection and virus production in follicular dendritic cells in lymph nodes. A case report, with analysis of isolated follicular dendritic cells. Parmentier HK, et al. **Am J Pathol** 1990 Aug;137(2):247–51
Rationale for anti-AIDS chemotherapy directed at HIV-1 infected dendritic cells in seropositive individuals prior to the appearance of ARC and AIDS. Becker Y. **J Chemother** 1990 Jun;2(3):152–5

PATHOLOGY

Immunohistological demonstration of lymph node reticulum cells in the acquired immunodeficiency syndrome related complex. A study in Bouin-fixed tissues. Szekeres G, et al. **Acta Morphol Hung** 1989;37(1-2):47-53

Dendritic reticulum cells and immunophenotype in aspiration biopsies of lymph nodes. Value in the subclassification of non-Hodgkin's lymphomas. Kornstein MJ, et al. **Am J Clin Pathol** 1990 Aug;94(2):165-9

Disseminated dermal dendrocytomas. A new cutaneous fibrohistiocytic proliferative disorder? Nickoloff BJ, et al. **Am J Surg Pathol** 1990 Sep;14(9):867-71

Fat-storing hamartoma of dermal dendrocytes. Clinical, histologic, and ultrastructural study. Bork K, et al. **Arch Dermatol** 1990 Jun;126(6):794-6

Giant dermal dendrocytoma of the face: a distinct clinicopathologic entity [letter] Gray MH, et al. **Arch Dermatol** 1990 May;126(5):689-90

Dendritic cells and scavenger macrophages in pancreatic islets of prediabetic BB rats. Voorbij HA, et al. **Diabetes** 1989 Dec;38(12):1623-9

Primary skin malignancy with features suggestive of dendritic reticulum cell differentiation. Strickler JG, et al. **Ultrastruct Pathol** 1990 May-Jun;14(3):273-82

Immunohistochemical and histometrical studies of the human thymus with special emphasis on age-related changes in medullary epithelial and dendritic cells. Nakahama M, et al. **Virchows Arch [B]** 1990;58(3):245-51

PHYSIOLOGY

Intercellular contacts between germinal center cells. Mechanisms of adhesion between lymphoid cells and follicular dendritic cells. Louis E, et al. **Acta Otorhinolaryngol Belg** 1989;43(4):297-320

Dendritic cells and the dermis: 1990. Headington JT, et al. **Am J Dermatopathol** 1990 Jun;12(3):217-20 (17 ref.)

Potential role of dendritic cells in bronchiolitis obliterans in heart-lung transplantation. Yousem SA, et al. **Ann Thorac Surg** 1990 Mar;49(3):424-8

Collaboration between human blood dendritic cells and monocytes in antigen presentation. Räsänen L, et al. **APMIS** 1989 Nov;97(11):981-6

Cluster formation of canine dendritic cells and lymphocytes is calcium dependent and not inhibited by cyclosporine. Aprile J, et al. **Exp Hematol** 1990 Jan;18(1):32-6

Mechanisms of dendritic cell function. King PD, et al. **Immunol Today** 1990 Jun;11(6):206-11 (74 ref.)

Properties of lymph-borne (veiled) dendritic cells in culture. I. Modulation of phenotype, survival and function: partial dependence on GM-CSF. MacPherson GG. **Immunology** 1989 Sep;68(1):102-7

Maturational steps of bone marrow-derived dendritic murine epidermal cells. Phenotypic and functional studies on Langerhans cells and Thy-1+ dendritic epidermal cells in the perinatal period. Elbe A, et al. **J Immunol** 1989 Oct 15;143(8):2431-8

Differences in turnover between thymic medullary dendritic cells and a subset of cortical macrophages. Kampinga J, et al. **J Immunol** 1990 Sep 15;145(6):1659-63

Cultured human Langerhans cells resemble lymphoid dendritic cells in phenotype and function. Romani N, et al. **J Invest Dermatol** 1989 Nov;93(5):600-9

Migration patterns of dendritic leukocytes. Austyn JM. **Res Immunol** 1989 Nov-Dec;140(9):898-902; discussion 918-26 (7 ref.)

Dendritic leukocytes: features of their in vivo physiology. Fossum S. **Res Immunol** 1989 Nov-Dec;140(9):883-91; discussion 918-26 (38 ref.)

Both dendritic cells and monocytes induce autologous and allogeneic T cells receptive to interleukin 2. Vakkila J, et al. **Scand J Immunol** 1990 Jan;31(1):75-83

Donor dendritic leukocytes migrate from cardiac allografts into recipients' spleens. Larsen CP, et al. **Transplant Proc** 1990 Aug;22(4):1943-4

Migration patterns of dendritic leukocytes. Implications for transplantation. Austyn JM, et al. **Transplantation** 1990 Jan; 49(1):1-7 (94 ref.)

Failure of mature dendritic cells of the host to migrate from the blood into cardiac or skin allografts. Larsen CP, et al. **Transplantation** 1990 Aug;50(2):294-301

[Immunohistochemical studies of ulcerative colitis—expression of HLA-DR antigen by colonic epithelium and the role of dendritic cells in the lamina propria] Kimura M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):187-94 (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

The role of passenger cells in the induction of allogeneic unresponsiveness to canine renal allografts. Miura S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):523-5

Exquisite sensitivity of dendritic cells to ultraviolet radiation and temperature changes. Everson MP, et al. **Transplantation** 1989 Oct;48(4):666-71

ULTRASTRUCTURE

The dermal dendrocyte. Headington JT. **Adv Dermatol** 1986; 1:159-71 (9 ref.)

Follicular dendritic reticular cells in the germinal center of the rat lymph node as studied by immuno-electron microscopy. Yoshida T, et al. **Arch Histol Cytol** 1989 Oct; 52(4):327-35

DENDRITIC CELLS, FOLLICULAR see **DENDRITIC CELLS**

DENERVATION

Cerebral metabolic and hormonal activations during hemorrhage in sinoaortic-denervated rats. Kadekaro M, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):R305-12

Hepatic nerves are not essential to the increase in hepatic glucose production during muscular work. Wasserman DH, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):E195-203

Effects of parasympathectomy on androgen responses of the rat submandibular gland. Katsukawa H, et al. **Arch Oral Biol** 1990;35(4):273-5

Functional recovery of the ventilatory chemoreflexes after partial chronic denervation of the nucleus tractus solitarius. Eugenin J, et al. **Brain Res** 1990 Jul 23;523(2):263-72

The surgically denervated, transplanted human heart [comment] Bristow MR. **Circulation** 1990 Aug;82(2):658-60 Comment on: Circulation 1990 Aug;82(2):620-3.

Bilateral renal denervation can prevent the development of stress-induced hypertension in the borderline hypertensive rat. Lawler JE, et al. **Clin Exp Hypertens [A]** 1989; 11(8):1549-63

Respiratory sinus arrhythmia in the denervated human heart. Bernardi L, et al. **J Appl Physiol** 1989 Oct;67(4):1447-55

Evidence for second metabolic pathway for O2 from PtiO2 measurements in denervated cat carotid body. Buerk DG, et al. **J Appl Physiol** 1989 Oct;67(4):1578-84

Role of tympanic neurectomy in otalgia. Cook JA, et al. **J Laryngol Otol** 1990 Feb;104(2):114-7

Nondopaminergic prefrontocortical efferent fibers modulate D1 receptor denervation supersensitivity in specific regions of the rat striatum. Herve D, et al. **J Neurosci** 1989 Nov; 9(11):3699-708

Administration of testosterone attenuates neuronal loss following axotomy in the brain-stem motor nuclei of female rats. Yu WH. **J Neurosci** 1989 Nov;9(11):3908-14

Percutaneous retrogasserian glycerol rhizotomy. Predictors of success and failure in treatment of trigeminal neuralgia. North RB, et al. **J Neurosurg** 1990 Jun;72(6):851-6

Cerebellar Purkinje cells: membrane property changes on partial deafferentation. Kado RT, et al. **J Physiol (Paris)** 1988-89;83(3):172-80

Target size regulates calibre and myelination of sympathetic axons [see comments] Voyvodic JT. **Nature** 1989 Nov 23; 342(6248):430-3 Comment in: Nature 1990 May 3;345(6270):28.

[3H]Dihydrotetrabenazine, a new marker for the visualization of dopaminergic denervation in the rat striatum. Masuo Y, et al. **Neurosci Lett** 1990 Jun 22;114(1):45-50

Sensory denervation with capsaicin does not influence the critical ischemia time in rat island flaps. Westin M, et al. **Scand J Plast Reconstr Surg Hand Surg** 1989;23(3):173-6

Effect of total jejunoileal denervation on fat-stimulated release of peptide YY and cholecystokinin. Evers BM, et al. **Surgery** 1990 Aug;108(2):248-52; discussion 252-3

[Liver denervation aggravates the hemodynamic response to hemorrhage in the conscious rat] Ozier Y, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R111 **(Fre)**

[Effects of the deafferentation of the pineal gland by bilateral ablation of superior cervical sympathetic ganglia on the autumnal recrudescence of testicular activity in mink] Maurel D, et al. **C R Acad Sci [III]** 1990;310(6):245-51 (Eng. Abstr.) **(Fre)**

[Effect of chronic denervation on blood flow and ultrastructural and functional status of the tubule system of the solitary kidney] Barinov EF, et al. **Fiziol Zh** 1989 Nov-Dec;35(6):66-73 (Eng. Abstr.) **(Rus)**

METHODS

NaCl deposition in the vestibule: a simple, safe, and effective method of cochleovestibular deafferentation. Colletti V, et al. **Am J Otol** 1989 Nov;10(6):451-5

[Anatomy of the articular nerves of the wrist. Implications for wrist denervation techniques] Dubert T, et al. **Ann Chir Main Memb Super** 1990;9(1):15-21 (Eng. Abstr.) **(Fre)**

[Facet denervation following disk surgery] Winkelmüller W. **Aktuel Probl Chir Orthop** 1989;35:121-3 **(Ger)**

[Percutaneous radiofrequency neurotomy of lumbar medial branch (facet rhizotomy)—a report of 6 cases] Yamagami H, et al. **Masui** 1990 Apr;39(4):491-5 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of chronic ischemic heart disease] Lebedev LV, et al. **Khirurgiia (Mosk)** 1990 May;(5):11-6 (Eng. Abstr.) **(Rus)**

[Vestibular neurotomy using the retro-labyrinthine route] Gavilán Bouzas J, et al. **Acta Otorrinolaringol Esp** 1988 Jul-Aug;39(4):235-40 (Eng. Abstr.) **(Spa)**

DENERVATION, AUTONOMIC see **SYMPATHECTOMY**

DENERVATION, SYMPATHETIC see **SYMPATHECTOMY**

DENERVATION, SYMPATHETIC, CHEMICAL see **SYMPATHECTOMY, CHEMICAL**

DENGUE

A sporadic case of dengue encephalopathy [letter] Mehendale SM, et al. **J Assoc Physicians India** 1989 May;37(5):346

[Clinical observation of 15 Thai children with dengue hemorrhagic fever] Chang CS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Mar; 6(3):131-6 (Eng. Abstr.) **(Chi)**

BLOOD

A study of erythrocyte sedimentation rate in dengue hemorrhagic fever. Kalayanarooj S, et al. **Southeast Asian J Trop Med Public Health** 1989 Sep; 20(3):325-30

COMPLICATIONS

Pericardial effusion in dengue haemorrhagic fever. Pelupessy JM, et al. **Paediatr Indones** 1989 Mar-Apr;29(3-4):72-5

DIAGNOSIS

Surveillance for dengue and dengue hemorrhagic fever. Gubler DJ. **Bull Pan Am Health Organ** 1989;23(4):397-404

Serologically proven acute rubella infection in patients with clinical diagnosis of dengue. Bustos J, et al. **Epidemiol Infect** 1990 Apr;104(2):297-302

Serological evidence of dengue fever among refugees, Hargeysa, Somalia. Botros BA, et al. **J Med Virol** 1989 Oct;29(2):79-81

Dengue virus infection. Doraisingham S. **Singapore Med J** 1989 Dec;30(6):523-4

A practical community-based approach to the diagnosis of dengue virus infections. Pang T, et al. **Singapore Med J** 1989 Dec;30(6):525-7

Enzyme immunoassay for the detection of dengue IgG and IgM antibodies using infected mosquito cells as antigen. Figueiredo LT, et al. **Trans R Soc Trop Med Hyg** 1989 Sep-Oct;83(5):702-7

[MAC-ELISA for the detection of IgM antibodies to dengue type I virus (rapid diagnosis of dengue type I virus infection)] Chow L, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):278-85 (Eng. Abstr.) **(Chi)**

[Dengue; fever, exanthema and arthralgia] Kager PA. **Ned Tijdschr Geneeskd** 1989 Oct 7;133(40):1977-8 **(Dut)**

[Dengue fever with hemorrhagic manifestations after a stay in Thailand] Krippner R, et al. **Dtsch Med Wochenschr** 1990 Jun 1;115(22):858-62 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Prophylactic ribavirin treatment of dengue type 1 infection in rhesus monkeys. Malinoski FJ, et al. **Antiviral Res** 1990 Mar;13(3):139-49

EPIDEMIOLOGY

Epidemic dengue 1 in Brazil, 1986: evaluation of a clinically based dengue surveillance system. Dietz VJ, et al. **Am J Epidemiol** 1990 Apr;131(4):693-701

Dengue fever in a Puerto Rican community. Neff JM, et al. **Am J Epidemiol** 1967 Jul;86(1):162-84

Dengue hemorrhagic fever in Cuba, 1981: a retrospective seroepidemiologic study. Guzmán MG, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):179-84

Dengue serologic survey of schoolchildren in Rio de Janeiro, Brazil, in 1986 and 1987. Figueiredo LT, et al. **Bull Pan Am Health Organ** 1990;24(2):217-25

Dengue haemorrhagic fever/dengue shock syndrome: lessons from the Cuban epidemic, 1981. Kouri GP, et al. **Bull World Health Organ** 1989;67(4):375-80

Dengue hemorrhagic fever in Venezuela. **Epidemiol Bull** 1990;11(2):7-9

Dengue in the Americas. 1980-1987. Pinheiro FP. **Epidemiol Bull** 1989;10(1):1-8 (47 ref.)

Diagnosis and surveillance of dengue virus infections: gold standards and new directions. Cardosa MJ. **Malays J Pathol** 1989 Aug;11:7-10 (18 ref.)

Dengue-3 in French Polynesia: preliminary data [letter] Chungue E, et al. **Med J Aust** 1990 May 21;152(10):557-8

Virological study of a dengue type 1 epidemic at Rio de Janeiro. Nogueira RM, et al. **Mem Inst Oswaldo Cruz** 1989 Apr-Jun;83(2):219-25

Imported dengue—United States, 1988. **MMWR** 1990 Mar 2;39(8):127-8, 133

Age-adjusted dengue haemorrhagic fever morbidity in Thailand 1983-1987. Kitayaporn D, et al. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):195-200

Epidemic of fever of unknown origin in rural Thailand, caused by influenza A (H1N1) and dengue fever. Silarug N, et al. **Southeast Asian J Trop Med Public Health** 1990 Mar;21(1):61-7

Comparison of immunoglobulin G enzyme-linked immunosorbent assay (IgG-ELISA) and haemagglutination inhibition (HI) test for the detection of dengue antibodies. Prevalence of dengue IgG-ELISA antibodies in Tahiti. Chungue E, et al. **Trans R Soc Trop Med Hyg** 1989 Sep-Oct;83(5):708-11

Dengue fever in the Caribbean. Hospedales CJ. **West Indian Med J** 1990 Mar;39(1):59-62 (4 ref.)

An update on Dengue fever in the Caribbean. Hospedales CJ. **West Indian Med J** 1990 Jun;39(2):131

Epidemiology of dengue fever/dengue haemorrhagic fever. **Wkly Epidemiol Rec** 1990 Apr 6;65(14):104–6 **(Eng, Fre)**

Dengue haemorrhagic fever (DHF). Increase in number of cases in the Americas 1980–1987. **Wkly Epidemiol Rec** 1990 Jan 19;65(3):13–5 **(Eng, Fre)**

[The current epidemiologic situation of dengue fever in the main epidemiologic areas of the world] Chen Y. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):51–4 (27 ref.) **(Chi)**

[Epidemiologic trends in dengue fever and dengue hemorrhagic fever] Tang S. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Apr; 11(2):113–5 (20 ref.) **(Chi)**

[Classic dengue and hemorrhagic dengue in Mexico] Kumate-Rodríguez J, et al. **Gac Med Mex** 1989 Jan–Feb; 125(1–2):37–9 **(Spa)**

[Retrospective sero-epidemiologic survey on dengue virus in the municipalities of Cienfuegos and Palmira] Guzmán Tirado MG, et al. **Rev Cubana Med Trop** 1989 Sep–Dec; 41(3):321–32 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Pathogenesis of dengue haemorrhagic fever: current perspectives. Pang T. **Adv Exp Med Biol** 1989;257:155–68 (64 ref.)

GENETICS

Nucleotide sequence of the envelope protein gene of a Malaysian dengue-2 virus isolated from a patient with dengue shock syndrome. Samuel S, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8888

Nucleotide sequence of the envelope protein gene of a Malaysian dengue-2 virus isolated from a patient with dengue haemorrhagic fever. Samuel S, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8875

IMMUNOLOGY

Monoclonal antibodies for dengue virus prM glycoprotein protect mice against lethal dengue infection. Kaufman BM, et al. **Am J Trop Med Hyg** 1989 Nov;41(5):576–80

Human IgG Fc receptor II mediates antibody-dependent enhancement of dengue virus infection. Littaua R, et al. **J Immunol** 1990 Apr 15;144(8):3183–6

Immunization of mice with recombinant vaccinia virus expressing authentic dengue virus nonstructural protein NS1 protects against lethal dengue virus encephalitis. Falgout B, et al. **J Virol** 1990 Sep;64(9):4356–63

MICROBIOLOGY

Dengue-2 virus infection of human mononuclear cell lines and establishment of persistent infections. Kurane I, et al. **Arch Virol** 1990;110(1–2):91–101

Isolation of dengue viruses from hospitalized patients in the Philippines, 1983–1986. Manaloto CR, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):541–7

Genetic variation and microevolution of dengue 2 virus in Southeast Asia. Trent DW, et al. **Virology** 1989 Oct; 172(2):523–35

PATHOLOGY

Dengue: neuropathological findings in 5 fatal cases from Brazil. Chimelli L, et al. **Clin Neuropathol** 1990 May–Jun; 9(3):157–62

PHYSIOPATHOLOGY

Effect of dengue virus on hematopoietic progenitors [letter; comment] Steinberg HN, et al. **Blood** 1990 Feb 1; 75(3):811–2 Comment on: Blood 1989 Sep;74(4):1235–40.

PREVENTION & CONTROL

Toxorhynchites amboinensis larvae released in domestic containers fail to control dengue vectors in a rural village in central Java. Annis B, et al. **J Am Mosq Control Assoc** 1990 Mar;6(1):75–8

Passive protection studies in mice with monoclonal antibodies directed against the non-structural protein NS3 of dengue 1 virus. Tan CH, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):745–9

From the World Health Organization. Development of dengue and Japanese encephalitis vaccines. Brandt WE. **J Infect Dis** 1990 Sep;162(3):577–83

[Preliminary study on the biological control of dengue vectors by fish in Liouchyou Prefecture, Pingtung County, Taiwan] Wang CH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Jul;6(7):382–8 (Eng. Abstr.) **(Chi)**

[Active surveillance for dengue and dengue hemorrhagic fever] Gubler DJ. **Bol Of Sanit Panam** 1989 Jul; 107(1):22–30 (Eng. Abstr.) **(Spa)**

THERAPY

The use of intravenous gammaglobulin in dengue fever, a case report. Ascher DP, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):549–54

TRANSMISSION

Cemetery vase breeding of dengue vectors in Manila, Republic of the Philippines. Schultz GW. **J Am Mosq Control Assoc** 1989 Dec;5(4):508–13

DENGUE VIRUS

[Studies on the susceptibility among geographic strains of Aedes albopictus in China to infection with dengue viruses] Zhang S, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec; 10(6):348–51 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

Rapid chemical mapping of dengue virus variability using RNA isolated directly from cells. Cotton RG, et al. **J Virol Methods** 1989 Oct;26(1):67–76

GENETICS

In vitro processing of dengue virus type 2 nonstructural proteins NS2A, NS2B, and NS3. Preugschat F, et al. **J Virol** 1990 Sep;64(9):4364–74

Detection of dengue viral RNA in mosquito vectors by mixed phase and solution hybridization. Olson KE, et al. **Mol Cell Probes** 1990 Aug;4(4):307–20

Nucleotide sequences of the nonstructural protein NS1 gene of three dengue-2 viruses, M1, M2 and M3, isolated in Malaysia from patients with dengue haemorrhagic fever, dengue shock syndrome and dengue fever, respectively. Fong MY, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1642

Nucleotide sequence of the envelope protein gene of a Malaysian dengue-2 virus isolated from a patient with dengue haemorrhagic fever. Samuel S, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8875

Nucleotide and encoded amino acid sequences of the capsid protein gene of three dengue-2 viruses isolated in Malaysia from patients with dengue haemorrhagic fever, dengue shock syndrome or dengue fever. Samuel S, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1904

Nucleotide sequence of the envelope protein gene of a Malaysian dengue-2 virus isolated from a patient with dengue fever. Samuel S, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8887

Nucleotide and encoded amino acid sequences of the membrane protein precursor and the membrane protein genes of three dengue-2 viruses isolated in Malaysia from patients with dengue haemorrhagic fever, dengue shock syndrome or dengue fever. Samuel S, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1905

Nucleotide sequence of the envelope protein gene of a Malaysian dengue-2 virus isolated from a patient with dengue shock syndrome. Samuel S, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8888

Complete nucleotide sequence of dengue type 3 virus genome RNA. Osatomi K, et al. **Virology** 1990 Jun;176(2):643–7

Molecular evolution and distribution of dengue viruses type 1 and 2 in nature. Rico-Hesse R. **Virology** 1990 Feb; 174(2):479–93

Genetic variation and microevolution of dengue 2 virus in Southeast Asia. Trent DW, et al. **Virology** 1989 Oct; 172(2):523–35

[Synthesis and cloning of lengthy cDNA segments of 3'-poly(A)-RNA virus] Xu NZ, et al. **I Chuan Hsueh Pao** 1988;15(5):382–8 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Dengue hemorrhagic fever in Cuba, 1981: a retrospective seroepidemiologic study. Guzmán MG, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):179–84

Preparation of an attenuated dengue 4 (341750 Carib) virus vaccine. II. Safety and immunogenicity in humans. Hoke CH Jr, et al. **Am J Trop Med Hyg** 1990 Aug;43(2):219–26

Monoclonal antibodies for dengue virus prM glycoprotein protect mice against lethal dengue infection. Kaufman BM, et al. **Am J Trop Med Hyg** 1989 Nov;41(5):576–80

Preparation of an attenuated dengue 4 (341750 Carib) virus vaccine. I. Pre-clinical studies. Marchette NJ, et al. **Am J Trop Med Hyg** 1990 Aug;43(2):212–8

Increased capillary permeability mediated by a dengue virus-induced lymphokine. Khanna M, et al. **Immunology** 1990 Mar;69(3):449–53

Effect of dengue virus-induced cytotoxin on capillary permeability. Dhawan R, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):83–8

Passive protection studies in mice with monoclonal antibodies directed against the non-structural protein NS3 of dengue 1 virus. Tan CH, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):745–9

From the World Health Organization. Development of dengue and Japanese encephalitis vaccines. Brandt WE. **J Infect Dis** 1990 Sep;162(3):577–83

Dengue virus-specific cross-reactive CD8+ human cytotoxic T lymphocytes. Bukowski JF, et al. **J Virol** 1989 Dec;63(12):5086–91

Immunization of mice with recombinant vaccinia virus expressing authentic dengue virus nonstructural protein NS1 protects against lethal dengue virus encephalitis. Falgout B, et al. **J Virol** 1990 Sep;64(9):4356–63

Comparison of immunoglobulin G enzyme-linked immunosorbent assay (IgG-ELISA) and haemagglutination inhibition (HI) test for the detection of dengue antibodies. Prevalence of dengue IgG-ELISA antibodies in Tahiti. Chungue E, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct;83(5):708–11

Enzyme immunoassay for the detection of dengue IgG and IgM antibodies using infected mosquito cells as antigen. Figueiredo LT, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct;83(5):702–7

Antibodies to dengue 2 virus E-glycoprotein synthetic peptides identify antigenic conformation. Roehrig JT, et al. **Virology** 1990 Aug;177(2):668–75

[MAC-ELISA for the detection of IgM antibodies to dengue type I virus (rapid diagnosis of dengue type I virus infection)] Chow L, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):278–85 (Eng. Abstr.) **(Chi)**

[Antigen signature analysis of dengue-2 viruses strains in Hainan China] Yang PY, et al. **Wei Sheng Wu Hsueh Pao** 1989 Aug;29(4):299–302 (Eng. Abstr.) **(Chi)**

[Serologic study of arbovirus in 2 localities of the Juventud island] Vázquez Ramudo S, et al. **Rev Cubana Med Trop** 1989 Sep–Dec;41(3):362–70 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Vertical transmission of dengue viruses by strains of Aedes albopictus recently introduced into Brazil. Mitchell CJ, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):251–3

Vertical maintenance of dengue-1 virus in sequential generations of Aedes albopictus. Shroyer DA. **J Am Mosq Control Assoc** 1990 Jun;6(2):312–4

Isolation of dengue viruses from hospitalized patients in the Philippines, 1983–1986. Manaloto CR, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):541–7

METABOLISM

Cleavage of dengue virus NS1-NS2A requires an octapeptide sequence at the C terminus of NS1. Hori H, et al. **J Virol** 1990 Sep;64(9):4573–7

PHYSIOLOGY

Dengue 3 virus infection of Aedes albopictus and Aedes aegypti: comparison of parent and progeny candidate vaccine viruses. Schoepp RJ, et al. **Am J Trop Med Hyg** 1990 Jan;42(1):89–96

Low pH-induced cell fusion in flavivirus-infected Aedes albopictus cell cultures. Randolph VB, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1845–50

DENIAL (PSYCHOLOGY)

Addiction in a coworker. Getting past the denial. Miller H. **Am J Nurs** 1990 May;90(5):72–5

Admitters and deniers among adolescent sex offenders and their families: a preliminary study. Sefarbi R. **Am J Orthopsychiatry** 1990 Jul;60(3):460–5

Maladaptive denial of physical illness: a proposal for DSM-IV. Strauss DH, et al. **Am J Psychiatry** 1990 Sep; 147(9):1168–72

Factitious hypoglycemia and the multiple personality disorder [letter] Toth EL. **Ann Intern Med** 1990 Jan 1; 112(1):76

Neonaticide and hysterical denial of pregnancy. Green CM, et al. **Br J Psychiatry** 1990 Jan;156:121–3

Denial and diabetes. Nelki JS, et al. **Diabetic Med** 1990 Jul; 7(6):556–7

Anton syndrome and cortical blindness due to bilateral occipital infarction. Misra M, et al. **Indian J Ophthalmol** 1989 Oct–Dec;37(4):196

Ego-syntonic object manipulation: the formation of a submissive relationship. Eckstaedt A. **Int J Psychoanal** 1989;70 (Pt 3):499–512

Illness cognition and behavior: an experimental approach. Croyle RT, et al. **J Behav Med** 1990 Feb;13(1):31–52 (65 ref.)

Denial and imminent death. De Hennezel M. **J Palliat Care** 1989 Sep;5(3):27–31

Verbal asomatognosia. Feinberg TE, et al. **Neurology** 1990 Sep;40(9):1391–4

Improvement of unilateral spatial neglect with numbering. Ishiai S, et al. **Neurology** 1990 Sep;40(9):1395–8

Anosognosia and major depression in 2 patients with cerebrovascular lesions. Starkstein SE, et al. **Neurology** 1990 Sep;40(9):1380–2

Prediction of physical indisposition with the help of a questionnaire for measuring denial and overcompensation. Trijsburg RW, et al. **Psychother Psychosom** 1989; 51(4):193–202

Denial by parents of HIV-infected children [letter] Friedland IR, et al. **S Afr Med J** 1990 Jul 21;78(2):110

[Silent myocardial ischemia. Psychosomatic viewpoint] Janne P, et al. **Acta Psychiatr Belg** 1988 Jul–Aug;88(4):269–80 (45 ref.) (Eng. Abstr.) **(Fre)**

[Denial in adolescence. Some contradictory aspects] Erlich HS. **Psyche (Stuttg)** 1990 Mar;44(3):218–39 (Eng. Abstr.) **(Ger)**

[The disclosure discussion. The physician between responsibility and denial] Horn J. **Zentralbl Chir** 1990; 115(5):257–64 **(Ger)**

DENS IN DENTE see under **TOOTH ABNORMALITIES**

DENSITOMETRY

Chemical determination of human body density in vivo: relevance to hydrodensitometry. Heymsfield SB, et al. **Am J Clin Nutr** 1989 Dec;50(6):1282–9

Comparison of flow cytometry with static densitometry in papillary thyroid carcinoma. Cusick EL, et al. **Br J Surg** 1990 Aug;77(8):913–6

Quantitative evaluation and densitometry. **Electrophoresis** 1990 May;11(5):353–448

Electrophoresis and densitometry of serum and urine in the investigation and significance of monoclonal immunoglobulins. MacNamara EM, et al. **Electrophoresis** 1990 May;11(5):376–81

Echodensitometry: a methodologic approach to the non–invasive diagnosis of carotid atherosclerotic plaques. Spagnoli LG, et al. **Int Angiol** 1989 Oct–Dec;8(4):216–23

Bone densitometry [editorial] Adachi JD, et al. **J Rheumatol** 1990 Apr;17(4):419–20

[Densitometric control of the degradation products of vitamin B1 and calculating activation factors] Corti P, et al. **Ann Pharm Fr** 1989;47(3):117–25 (Eng. Abstr.) **(Fre)**

ECONOMICS

Should prescription of postmenopausal hormone therapy be based on the results of bone densitometry? Cummings SR, et al. **Ann Intern Med** 1990 Oct 15;113(8):565–7 (27 ref.)

Cost effectiveness of screening perimenopausal white women for osteoporosis: bone densitometry and hormone replacement therapy. Tosteson AN, et al. **Ann Intern Med** 1990 Oct 15;113(8):594–603

INSTRUMENTATION

Video microscopy: system calibration for densitometric analysis. Lavia LA. **Biotechniques** 1989 Oct;7(9):1018–20, 1023–5 (26 ref.)

Quantitative densitometry from the point of view of information theory. Pardowitz I, et al. **Electrophoresis** 1990 May;11(5):400–6

Calibration and standardization of bone mineral densitometers. Kelly TL, et al. **J Bone Miner Res** 1989 Oct;4(5):663–9

In vivo lens density measurements using the IntraOptics opacity lensmeter. Jones RL, et al. **J Cataract Refract Surg** 1990 Jan;16(1):115–9

Imaging retinal densitometry with a confocal Scanning Laser Ophthalmoscope. van Norren D, et al. **Vision Res** 1989; 29(12):1825–30

METHODS

Application of dynamic computed tomography scan and computed tomography densitometry in the evaluation of brain volume enlargement. Czernicki Z, et al. **Adv Neurol** 1990;52:529–32

Determination of red blood cell oxygenation in vivo by dual video densitometric image analysis. Ellis CG, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1216–23

Quantitation of ultraviolet radiation–induced cyclobutyl pyrimidine dimers in DNA by video and photographic densitometry. Freeman SE, et al. **Anal Biochem** 1990 May 1;186(2):222–8

Isobestic wavelength determination for succinic dehydrogenase–nitroblue tetrazolium–derived formazans in autonomic neurons. Baker DM, et al. **Basic Appl Histochem** 1990;34(1):11–20

Quantitative autoradiography of dot blots using a microwell densitometer. Ross PM, et al. **Biotechniques** 1989 Jul–Aug; 7(7):680–8

Mean transit time for the assessment of myocardial perfusion by videodensitometry [see comments] Pijls NH, et al. **Circulation** 1990 Apr;81(4):1331–40 Comment in: Circulation 1990 Apr;81(4):1431–5.

Electrophoretic separation of nucleic acids: evaluation by video and photographic densitometry. Freeman SE, et al. **Electrophoresis** 1990 May;11(5):425–31

A procedure for analysis of densitometric spectra. Galat A. **Electrophoresis** 1989 Oct;10(10):659–67

Degradation of individual intracellular proteins analyzed by two–dimensional gel electrophoresis and computerized video densitometry. Rodemann HP. **Electrophoresis** 1990 Mar;11(3):228–31

Rapid continuous monitoring of enzyme activity in tissue sections: experience with the M85A and Zeiss UMSP–30 systems. Lomax RB, et al. **Histochem J** 1989 Sep–Oct; 21(9–10):595–9

Reproducible estimation of retinal vessel width by computerized microdensitometry. George GS, et al. **Int Ophthalmol** 1990 Mar;14(2):89–95

Relative insensitivity of densitometric stenosis measurement to lumen edge determination. Herrold EM, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1570–7

Measurement of the density of trabecular bone. Sharp DJ, et al. **J Biomech** 1990;23(8):853–7

Commercial double–indicator–dilution densitometer using heavy water: evaluation in oleic–acid pulmonary edema. Leksell LG, et al. **J Clin Monit** 1990 Apr;6(2):99–106

Measurement of lung density by computed tomography: implication for radiotherapy. Kohda E, et al. **Keio J Med** 1989 Dec;38(4):454–63

A procedure for removing the blurring in microdensitometric analysis. Konishi M, et al. **Okajimas Folia Anat Jpn** 1990 May;67(1):59–64

[Linear bone densitometry by monochromatic photon absorptiometry. A study of a normal population in Apulia] D'Amore M, et al. **Minerva Med** 1989 Nov;80(11):1187–91 (Eng. Abstr.) **(Ita)**

[A new injection–free method of detecting cerebral cortex capillaries and the quantitative determination of the optical density of the capillary bed] Aleksandrov PN, et al. **Patol Fiziol Eksp Ter** 1990 Jan–Feb;(1):54–6 **(Rus)**

DENSITOMETRY, X-RAY

Radiographic videodensitometry for quantitative monitoring of experimental bone healing. Kälebo P, et al. **Br J Radiol** 1989 Oct;62(742):883–9

Acronym for dual–energy x–ray absorptiometry [letter] Wilson CR, et al. **Radiology** 1990 Sep;176(3):875–6

INSTRUMENTATION

[Digital densitometry and rapid determination of stroke volume and valve regurgitation] Onnasch DG, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:46–7 **(Ger)**

[Densitometry quantification of coronary angiograms using coronary muscle calibration following elimination of scattering and distortion errors] Solzbach U, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:68–9 **(Ger)**

METHODS

Quantitative roentgenographic densitometry for assessing fracture healing. Tiedeman JJ, et al. **Clin Orthop** 1990 Apr; (253):279–86

Correction of density changes caused by methodological errors in CADIA. Steffensen B, et al. **J Periodont Res** 1989 Nov;24(6):402–8

Computed tomography–osteoabsorptiometry for assessing the density distribution of subchondral bone as a measure of long–term mechanical adaptation in individual joints. Müller–Gerbl M, et al. **Skeletal Radiol** 1989;18(7):507–12

Osteodensitometry of vertebral metastases after radiotherapy using quantitative computed tomography. Reinbold WD, et al. **Skeletal Radiol** 1989;18(7):517–21

[Bone mineral determination using dual energy X–ray absorptiometry (DEXA)] Fukunaga M, et al. **Rinsho Hoshasen** 1990 Jan;35(1):41–8 (Eng. Abstr.) **(Jpn)**

[A trial of densitometry in the objective assessment of the x–ray image of the apices of the interdental membranes in periodontal lesions] Vetoshchuk VI, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):26–9 (Eng. Abstr.) **(Rus)**

DENTAL ALLOYS

Variation in human salivary pellicle formation on biomaterials during the day. Morge S, et al. **Arch Oral Biol** 1989;34(8):669–74

A comparison of glass cermet cement and amalgam restorations in primary molars. Hickel R, et al. **ASDC J Dent Child** 1990 May–Jun;57(3):184–8

The bond strengths of various adhesives used for Maryland Bridges. Flood AM, et al. **Aust Dent J** 1989 Oct; 34(5):449–53

The use of glass ionomer cements for restoring occlusal tooth surfaces. Smales RJ, et al. **Aust Dent J** 1990 Apr; 35(2):181–2

Tempering as a means to strengthen porcelain–fused–to–metal restorations. DeHoff PH, et al. **Biomed Sci Instrum** 1990;26:167–74

Cermet cements. McLean JW. **J Am Dent Assoc** 1990 Jan; 120(1):43–7 (20 ref.)

Silver–alloy powder and glass ionomer cement. Simmons JJ. **J Am Dent Assoc** 1990 Jan;120(1):49–52

Clinical evaluation of glass ionomer–silver cermet restorations in primary molars: one year results. Hung TW, et al. **J Can Dent Assoc** 1990 Mar;56(3):239–40

Microleakage in restorations with glass ionomer liners after thermocycling. Arcoria CJ, et al. **J Dent** 1990 Apr; 18(2):107–12

Influence of casting procedure on silver–palladium endodontic posts. Stokes AN, et al. **J Dent** 1989 Dec; 17(6):305–7

Transient and residual stress in a porcelain–metal strip. Asaoka K, et al. **J Dent Res** 1990 Feb;69(2):463–9

Dental casting of titanium and Ni–Ti alloys by a new casting machine. Hamanaka H, et al. **J Dent Res** 1989 Nov; 68(11):1529–33

Maximum bond strength of dental luting cement to amalgam alloy. Mojon P, et al. **J Dent Res** 1989 Nov;68(11):1545–9

Relationship of restoration width, tooth position, and alloy to fracture at the margins of 13– to 14–year–old amalgams. Osborne JW, et al. **J Dent Res** 1990 Sep;69(9):1599–601

Mutans streptococci in plaque from margins of amalgam, composite, and glass–ionomer restorations. Svanberg M, et al. **J Dent Res** 1990 Mar;69(3):861–4

Effects of the porcelain firing sequence on the bond strengths of cements. Kanoy BE, et al. **J Oral Rehabil** 1989 Jul; 16(4):335–43

Effect of mucin on the corrosion behaviour of dental casting alloys. Mezger PR, et al. **J Oral Rehabil** 1989 Nov; 16(6):589–96

Effectiveness of a method used in bonding resins to metal. Caeg C, et al. **J Prosthet Dent** 1990 Jul;64(1):37–41

A comparative strength study of metal ceramic and all–ceramic esthetic materials: modulus of rupture. Campbell SD. **J Prosthet Dent** 1989 Oct;62(4):476–9

A qualitative study for the bond and color of ceramometals. Part I. Hammad IA, et al. **J Prosthet Dent** 1990 Jun; 63(6):643–53

Effect of opaque porcelain application on strength of bond to silver–palladium alloys. Jochen DG, et al. **J Prosthet Dent** 1990 Apr;63(4):414–8

An in vitro study of the tensile strength of the resin bond between chemically etched non–noble alloy and enamel. Kuyinu E, et al. **J Prosthet Dent** 1990 Mar;63(3):292–5

Residual stress in several ceramometal systems. Lund PS, et al. **J Prosthet Dent** 1989 Sep;62(3):278–83

Veterans Administration Cooperative Studies Project No. 147: association of metallic taste with metal ceramic alloys. Morris HF. **J Prosthet Dent** 1990 Feb;63(2):124–9

Comparison of the effects of three sprue designs on the internal porosity in crowns cast with a silver–free high–palladium alloy. Peregrina A, et al. **J Prosthet Dent** 1990 Aug;64(2):162–6

Effect of multiple firing on the bond strength of selected matched porcelain–fused–to–metal combinations. Stannard JG, et al. **J Prosthet Dent** 1990 Jun;63(6):627–9

An improved technique for dental alloy etching with a potentiostatic device. Hong CY. **Proc Natl Sci Counc Repub China [B]** 1989 Oct;13(4):319–26

Short– and long–term fluoride release from glass ionomers and other fluoride–containing filling materials in vitro. Forsten L. **Scand J Dent Res** 1990 Apr;98(2):179–85

Strength of bond with Comspan Opaque to three silicoated alloys and titanium. Hansson O. **Scand J Dent Res** 1990 Jun;98(3):248–56

[A study on the promotion of adhesion properties of adhesives to metals treated by positive oxidation] Li JA, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec; 20(4):397–400 (Eng. Abstr.) **(Chi)**

[The welding of cobalt–chromium, nickel–chromium and silver–palladium alloys using a solid–state laser] Dobberstein H, et al. **Zahn Mund Kieferheilkd** 1990; 78(3):259–61 **(Ger)**

[Bonding strength of adhesive resins with non–precious metal alloys in relation to conditioning methods] Loges H, et al. **Zahn Mund Kieferheilkd** 1989;77(5):438–45 (Eng. Abstr.) **(Ger)**

[Developments in titanium and Ni–Ti alloys for dental uses] Hamanaka H. **Kokubyo Gakkai Zasshi** 1989 Dec; 56(4):453–64 (53 ref.) **(Jpn)**

[Mechanical studies on casting titanium alloy denture base] Ito M. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):146–64 (Eng. Abstr.) **(Jpn)**

[Application of superplastic titanium alloy for denture base—Part 1. Adaptability of the titanium alloy denture base] Ito M, et al. **Kokubyo Gakkai Zasshi** 1989 Sep; 56(3):429–34 (Eng. Abstr.) **(Jpn)**

[Study on biocompatibility of titanium alloys] Kodama T. **Kokubyo Gakkai Zasshi** 1989 Jun;56(2):263–88 (Eng. Abstr.) **(Jpn)**

[Electric current around dental metals as a factor producing allergenic metal ions in the oral cavity] Nogi N. **Nippon Hifuka Gakkai Zasshi** 1989 Nov;99(12):1243–54 (Eng. Abstr.) **(Jpn)**

[Sanitary–chemical studies of stomatological alloys] Koren' VN, et al. **Gig Sanit** 1990 Apr;(4):69–70 **(Rus)**

[The prevention of complications from the use of cast stump pin inserts for the fixation of metal–ceramic dentures] Arutiunov SD. **Stomatologiia (Mosk)** 1989 Jul–Aug; 68(4):48–50 (Eng. Abstr.) **(Rus)**

[The effect of metal dentures in the oral cavity on the electric conductivity of the saliva] Freidin LI, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):60–1 (Eng. Abstr.) **(Rus)**

[Aspects under discussion in the design and use of metal–ceramic dentures] Kalamkarov KhA, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):44–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Nickel, chromium, cobalt dental alloys and allergic reactions: an overview. Hildebrand HF, et al. **Biomaterials** 1989 Oct; 10(8):545–8 (46 ref.)

Release and detection of dental corrosion products in vivo: development of an experimental model in rabbits. Reuling N, et al. **J Biomed Mater Res** 1990 Aug;24(8):979–91

[Non–precious metal dental alloys and allergy] Hildebrand HF, et al. **J Biol Buccale** 1989 Dec;17(4):227–43 (147 ref.) (Eng. Abstr.) **(Fre)**

[Clinico–immunological parallels in intolerance of dentures of dissimilar metal alloys] Dolnikov AI, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):55–7 (Eng. Abstr.) **(Rus)**

[Characteristics of the electrical values of metal denture parts in patients wearing plate dentures] Pavlenko VM, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):61–3 (Eng. Abstr.) **(Rus)**

ANALYSIS

[Condensation of elements in the polished surface of amalgam fillings Homodent–1 and Goodfill] Szabó J, et al.

Fogorv Sz 1990 May;83(5):139–43 (Eng. Abstr.) (Hun)
[Surface changes of dental alloys in oral environment—Part 1. Accuracy of EPMA analysis and its applicability to estimate corrosion of dental alloys] Hani H, et al. Kokubyo Gakkai Zasshi 1989 Dec;56(4):465–72 (Eng. Abstr.) (Jpn)

CLASSIFICATION

[Amalgam. Classification and evaluation] Sorg T, et al. Schweiz Monatsschr Zahnmed 1989;99(10):1164–73 (Ger, Fre)

METABOLISM

Corrosion of copper, nickel, and gold dental casting alloys: an in vitro and in vivo study. Johansson BI, et al. J Biomed Mater Res 1989 Dec;23(A3 Suppl):349–61

PHARMACOLOGY

In vitro caries-inhibitory properties of a silver cermet. Swift EJ Jr. J Dent Res 1989 Jun;68(6):1088–93
[A comparison of the adhesive strength of unaged and aged metal–resin bonding systems. An in vitro study] Mathey Y, et al. Schweiz Monatsschr Zahnmed 1990;100(4):401–7 (Eng. Abstr.) (Ger)
[The corrosion behavior of nonprecious-metal fired alloys after different treatments] Mann E, et al. Zahn Mund Kieferheilkd 1989;77(7):698–700 (Ger)

RADIATION EFFECTS

Measurement of absorbed doses near metal and dental material interfaces irradiated by x- and gamma-ray therapy beams. Farahani M, et al. Phys Med Biol 1990 Mar; 35(3):369–85

STANDARDS

Alternative casting alloys for fixed prosthodontics. Fédération Dentaire Internationale. Technical Report No. 34. Int Dent J 1990 Feb;40(1):54–5
Metal ceramic compatibility: a review of the literature. Bagby M, et al. J Prosthet Dent 1990 Jan;63(1):21–5 (87 ref.)

TOXICITY

Toxicity of copper-based dental alloys in cell culture. Bumgardner JD, et al. J Biomed Mater Res 1989 Oct; 23(10):1103–14
Cytotoxicity of experimental casting alloys evaluated by cell culture tests. Craig RG, et al. J Dent Res 1990 Aug; 69(8):1539–42
[Metal dentures with multilayer protective coatings] Napadov MA, et al. Stomatologiia (Mosk) 1990 Jan–Feb;69(1):58–60 (Eng. Abstr.) (Rus)

DENTAL AMALGAM

Survival analysis of amalgam restorations in long-term recall patients. Bjertness E, et al. Acta Odontol Scand 1990 Apr; 48(2):93–7
Mercury, selenium, and glutathione peroxidase before and after amalgam removal in man. Molin M, et al. Acta Odontol Scand 1990 Jun;48(3):189–202
Methods of proximal amalgam overhang removal—a comparison of different techniques. Lim KC, et al. Ann Acad Med Singapore 1989 Sep;18(5):599–602
Time required for placement of composite versus amalgam restorations. Dilley DC, et al. ASDC J Dent Child 1990 May–Jun;57(3):177–83
A comparison of glass cermet cement and amalgam restorations in primary molars. Hickel R, et al. ASDC J Dent Child 1990 May–Jun;57(3):184–8
In vivo fluoride uptake in enamel and dentin from fluoride-containing materials. Skartveit L, et al. ASDC J Dent Child 1990 Mar–Apr;57(2):97–100
Mutans streptococci in interproximal plaque from amalgam and glass ionomer restorations. Svanberg M, et al. Caries Res 1990;24(2):133–6
Life-span of amalgam restorations in primary molars: some results and comments on statistical analyses. Wong FS, et al. Community Dent Oral Epidemiol 1989 Oct;17(5):248–51
Dental "silver" tooth fillings: a source of mercury exposure revealed by whole-body image scan and tissue analysis [see comments] Hahn LJ, et al. FASEB J 1989 Dec;3(14):2641–6 Comment in: FASEB J 1990 Mar;4(5):1542–3.
Staining of residual caries under freshly-packed amalgam restorations exposed to tea/chlorhexidine in vitro. Kidd EA, et al. Int Dent J 1990 Aug;40(4):219–24
Longevity of posterior restorations. Mjör IA, et al. Int Dent J 1990 Feb;40(1):11–7 (40 ref.)
Reduction of microleakage around new amalgam restorations. Ben-Amar A. J Am Dent Assoc 1989 Dec; 119(6):725–8 (77 ref.)
Clinical behaviour of high-copper amalgams with time, site, size and class of cavity preparation. Smales RJ, et al. J Dent 1990 Feb;18(1):49–53
In vitro marginal microleakage: examination of measurements used in assessment. Youngson CC, et al. J Dent 1990 Jun; 18(3):142–6
The caries status of occlusal amalgam restorations with marginal defects. Kidd EA, et al. J Dent Res 1990 Jun; 69(6):1275–7
Prevalence and need for replacement of amalgam and composite restorations in Dutch adults. Kroeze HJ, et al. J Dent Res 1990 Jun;69(6):1270–4
Relationship of restoration width, tooth position, and alloy to fracture at the margins of 13- to 14-year-old amalgams. Osborne JW, et al. J Dent Res 1990 Sep;69(9):1599–601
Effect of admixed indium on mercury vapor release from dental amalgam. Powell LV, et al. J Dent Res 1989 Aug; 68(8):1231–3
Amalgam margin breakdown caused by creep fatigue rupture. Williams PT, et al. J Dent Res 1989 Jul; 68(7):1188–93
Long-term use of dentine adhesive as an interfacial sealer under Class II amalgam restorations. Ben-Amar A, et al. J Oral Rehabil 1990 Jan;17(1):37–42
Joint strength between two layers of different amalgam types condensed successively. Gordon M, et al. J Oral Rehabil 1989 Sep;16(5):437–40
A mechanistic study of the electrochemical corrosion of the gamma 2 phase in dental amalgams. I. Evaluation of the measurements. Lemaitre L, et al. J Oral Rehabil 1989 Nov; 16(6):537–41
A mechanistic study of the electrochemical corrosion of the gamma 2 phase in dental amalgams. II. Introduction of a model. Lemaitre L, et al. J Oral Rehabil 1989 Nov; 16(6):543–8
The effect of posterior composite restorations on the resistance of cavity walls to vertically applied occlusal loads. Liberman R, et al. J Oral Rehabil 1990 Jan; 17(1):99–105
Cuspal flexure associated with amalgam restorations. Assif D, et al. J Prosthet Dent 1990 Mar;63(3):258–62
A combined amalgam and composite resin restoration. Cardash HS, et al. J Prosthet Dent 1990 May;63(5):502–5
Fracture resistance of amalgam coronal-radicular restorations. Kane JJ, et al. J Prosthet Dent 1990 Jun; 63(6):607–13
Retention of threaded pins in amalgam. Podshadley AG. J Prosthet Dent 1990 Jan;63(1):47–51
Amalgam crown restorations for posterior pulpless teeth. Starr CB. J Prosthet Dent 1990 Jun;63(6):614–9 (33 ref.)
Wear of materials used in dentistry: a review of the literature. Sulong MZ, et al. J Prosthet Dent 1990 Mar;63(3):342–9 (90 ref.)
Fabrication of an expedient retrofill amalgam carrier. Bodai CF. Milit Med 1989 Sep;154(9):437–8
Mercury and crematorium chimneys [letter] Mills A. Nature 1990 Aug 16;346(6285):615
Factors influencing the sealing behavior of retrograde amalgam fillings. Nelson LW, et al. Oral Surg Oral Med Oral Pathol 1990 Mar;69(3):356–60
Impacted maxillary deciduous second molar with occlusal amalgam restoration. Schiffman LE, et al. Oral Surg Oral Med Oral Pathol 1990 Jul;70(1):128
Decrease of gamma 1 lattice constant with time in dental silver amalgam. Jensen SJ. Scand J Dent Res 1989 Oct; 97(5):465–9
Marginal microhardness of corroded amalgams: a comparative in vitro study. Patsurakos A, et al. Scand J Dent Res 1990 Aug;98(4):326–35
Current-induced effects on growth and adhesion properties of Streptococcus mutans in vitro. Söderling E, et al. Scand J Dent Res 1989 Aug;97(4):338–45
Oral electrochemical action after soft drink rinsing and consumption of sweets. Vassilakos N, et al. Scand J Dent Res 1990 Aug;98(4):336–40
Mercury release from dental amalgam in man. Influences on selenium, glutathione peroxidase and some other blood and urine components. Molin M. Swed Dent J Suppl 1990; 71:1–122
[What is happening with the amalgam wastes coming from dental offices? (interview by K. Venner)] Antonioli CA, et al. Schweiz Monatsschr Zahnmed 1990;100(8):999–1000, 1009–11 (Fre, Ger)
["Amalgam, quo vadis?" (editorial)] Perret JB. Schweiz Monatsschr Zahnmed 1990;100(8):931, 933 (Fre, Ger)
[Amalgam maintenance. Maintenance of amalgam fillings: polishing, reburnishing, restoration or replacement?] Barbakow F, et al. Schweiz Monatsschr Zahnmed 1989; 99(10):1151–63 (Ger, Fre)
[Change of amalgam fillings. New regulations] Morawski R, et al. Lakartidningen 1989 Oct 4;86(40):3392–3 (Swe)

ADVERSE EFFECTS

The relationship between mercury from dental amalgam and mental health. Siblerud RL. Am J Psychother 1989 Oct; 43(4):575–87
Exercise-induced anaphylaxis: improvement after removal of amalgam in dental caries. Katsunuma T, et al. Ann Allergy 1990 May;64(5):472–5
'An unusual amalgam'. Grainger JK. Aust Dent J 1990 Jun; 35(3):224–5
Stomatitis and systemic dermatitis from mercury in amalgam dental restorations. Veien NK. Dermatol Clin 1990 Jan; 8(1):157–60
Traces of mercury in organs from primates with amalgam fillings. Danscher G, et al. Exp Mol Pathol 1990 Jun; 52(3):291–9
Dental silver tooth fillings [letter; comment] Dodes JE. FASEB J 1990 Mar;4(5):1542–3 Comment on: FASEB J 1989 Dec;3(14):2641–6.
Safety of dental amalgam. Fédération Dentaire Internationale Technical Report 33. Int Dent J 1989 Sep;39(3):217
Side-effects of amalgam and its alternatives: local, systemic and environmental. Bergman M. Int Dent J 1990 Feb; 40(1):4–10 (58 ref.)
When your patients ask about mercury in amalgam. J Am Dent Assoc 1990 Apr;120(4):395–8
Interpretation of base-metal dentinal radiopacities: survey results. Shrout MK, et al. J Am Dent Assoc 1990 Jun; 120(6):683–6
Periodontal response to long-term abuse of the gingival attachment by supracrestal amalgam restorations. Tal H, et al. J Clin Periodontol 1989 Nov;16(10):654–9
Effect of placement of amalgam restorations on urinary mercury concentration. Olstad ML, et al. J Dent Res 1990 Sep;69(9):1607–9
T lymphocytes, Langerhans cells and HLA-DR expression on keratinocytes in oral lesions associated with amalgam restorations. Bolewska J, et al. J Oral Pathol Med 1989 Oct;18(9):525–8
Amalgam associated mercury accumulations in normal oral mucosa, oral mucosal lesions of lichen planus and contact lesions associated with amalgam. Bolewska J, et al. J Oral Pathol Med 1990 Jan;19(1):39–42
Studies in oral galvanism: mercury and copper levels in urine, blood and saliva in submerged electrically cutting divers. Ortendahl TW, et al. J Oral Rehabil 1989 Nov;16(6):559–73 (40 ref.)
Particulate inhalation during the removal of amalgam restorations. Nimmo A, et al. J Prosthet Dent 1990 Feb; 63(2):228–33
Oral mucosal lesions related to silver amalgam restorations. Bolewska J, et al. Oral Surg Oral Med Oral Pathol 1990 Jul;70(1):55–8
Patients complaining about amalgam-related symptoms suffer more often from illnesses and chronic craniofacial pain than their controls. Meurman JH, et al. Scand J Dent Res 1990 Apr;98(2):167–72
Mercury vapor from dental amalgams, an in vitro study. Dérand T. Swed Dent J 1989;13(5):169–75
Relationship between oral symptoms, salivary function, smoking habits and general health in patients with complaints related to dental restorative materials. Lothigius E, et al. Swed Dent J 1989;13(6):245–54
[Prevention of mercury vapor contamination resulting from scraps of silver amalgam and the remainder of mercury] Yu WY. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Jul; 24(4):218–20, 255 (Eng. Abstr.) (Chi)
[Is the use of amalgam unsafe?] Meurman JH. Duodecim 1989; 105(18):1517–9 (17 ref.) (Fin)
[Mercury—is it a respiratory tract allergen?] Drouet M, et al. Allerg Immunol (Paris) 1990 Mar;22(3):81, 84–8 (7 ref.) (Eng. Abstr.) (Fre)
[Allergy to amalgam] von Mayenburg J. Hautarzt 1989 Aug; 40(8):536–7 (Ger)
[Anorexia hydrargyra. A case report from general practice] Dörffer U. Monatsschr Kinderheilkd 1989 Aug;137(8):472 (Ger)
[With amalgam in the teeth. Adverse effects of amalgam (letter)] Lind PO. Tidsskr Nor Laegeforen 1990 Apr 10; 110(10):1274 (Nor)
[Amalgam disease and dental personnel] Berglund F. Lakartidningen 1989 Dec 6;86(49):4321 (Swe)
[Amalgam clearing in mercury poisoning] Berglund F. Lakartidningen 1990 Feb 7;87(6):368 (Swe)

ANALYSIS

The release of mercury from dental amalgam: the mechanism and in vitro testing. Marek M. J Dent Res 1990 May; 69(5):1167–74
[Environmental pollution by tooth amalgam] Appel HG, et al. Biomed Tech (Berlin) 1989;34 Suppl:242–3 (Ger)
[Qualitative marginal gap research on amalgam fillings] Weiland M, et al. Zahn Mund Kieferheilkd 1990;78(1):19–24 (Eng. Abstr.) (Ger)
[Examination of the polished surface of the amalgam filling materials Homodent-1 and Goodfill] Szabó J, et al. Fogorv Sz 1990 May;83(5):133–8 (Eng. Abstr.) (Hun)
[Comparative electron microscopy scanning study of Homodent-1 and Goodfill silver amalgam powders] Szabó J, et al. Fogorv Sz 1990 Apr;83(4):99–103 (Eng. Abstr.) (Hun)
[Condensation of elements in the polished surface of amalgam fillings Homodent-1 and Goodfill] Szabó J, et al. Fogorv Sz 1990 May;83(5):139–43 (Eng. Abstr.) (Hun)
[Scanning electron microscopy study of the breaking surface of the amalgams Homodent-1 and Goodfill] Szabó J, et al. Fogorv Sz 1990 Apr;83(4):105–10 (Eng. Abstr.) (Hun)

CLASSIFICATION

[Amalgam. Classification and evaluation] Sorg T, et al. Schweiz Monatsschr Zahnmed 1989;99(10):1164–73 (Ger, Fre)

HISTORY

The story of silver amalgam (and how a Canadian changed it all)! Crawford PR. Can Dent Assoc J 1989 Nov; 55(11):887–90
[The history of dental amalgam] Bjørklund G. Tidsskr Nor Laegeforen 1989 Dec 10;109(34–36):3582–5 (Eng. Abstr.) (Nor)

PHARMACOKINETICS

Maternal-fetal distribution of mercury (203Hg) released from dental amalgam fillings. Vimy MJ, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R939-45

POISONING

[Amalgam poisoning—a medical reality (letter)] Feddersen S. **Ugeskr Laeger** 1990 Jul 23;152(30):2185-6 **(Dan)**

TOXICITY

A study of mercury redistribution, excretion and renal pathology in guinea-pigs implanted with powdered dental amalgam for between 2 and 4 years. Eley BM. **J Exp Pathol (Oxford)** 1990 Jun;71(3):375-93

[The toxicity of dental amalgam fillings] Bolt HM, et al. **Med Klin** 1990 May 15;85(5):350-2 **(Ger)**

DENTAL ANESTHESIA see **ANESTHESIA, DENTAL**

DENTAL ARCH

[A new mathematical method to describe the geometrical form of the dental and edentulous arch] Lu PJ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Mar; 24(2):75-7 **(Chi)**

[Deformities of the dental arch and alveolar process in children related to the removal of the lower temporary molars] Simanovskaia Elu, et al. **Stomatologiia (Mosk)** 1989 Sep-Oct;68(5):85-8 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

[Orthodontic treatment results with dental arch anomalies in children and adolescents with and without removal of the teeth] Elovikova AN, et al. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):60-2 (Eng. Abstr.) **(Rus)**

[Clinical manifestations and treatment of vertical deformities of the dental arches and bite in adults] Kozhokaru MP, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):63-6 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

Australian aboriginal tooth succession, interproximal attrition, and Begg's theory. Corruccini RS. **Am J Orthod Dentofacial Orthop** 1990 Apr;97(4):349-57 (78 ref.)

The position of the dentition in the mandible and its possible relation to orthodontic abnormalities. Osborn JW, et al. **Am J Orthod Dentofacial Orthop** 1989 Oct;96(4):327-32

Dental arch shape and tooth wear variability. Molnar S, et al. **Am J Phys Anthropol** 1990 Jul;82(3):385-95

Little influence on tooth position from playing a wind instrument. Rindisbacher T, et al. **Angle Orthod** 1990 Fall; 60(3):223-8

Spacing in the human deciduous dentition in relation to tooth size and dental arch size. el-Nofely A, et al. **Arch Oral Biol** 1989;34(6):437-41

Maxillary arch dimensions after palatal surgery at different ages on beagle dogs. Wijdeveld MG, et al. **J Dent Res** 1989 Jun;68(6):1105-9

A comparative study between three ethnic groups to derive some standards for maxillary arch dimensions. Diwan R, et al. **J Oral Rehabil** 1990 Jan;17(1):43-8

[Dental anthropological study of the Central American Indians] Miura F, et al. **Kokubyo Gakkai Zasshi** 1989 Sep; 56(3):409-28 (Eng. Abstr.) **(Jpn)**

GROWTH & DEVELOPMENT

A long-term study of the relationship of third molars to changes in the mandibular dental arch. Ades AG, et al. **Am J Orthod Dentofacial Orthop** 1990 Apr;97(4):323-35

[A study of the growth changes of the alveolar arch in Chinese infants] Liao SS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Apr; 6(4):168-80 (Eng. Abstr.) **(Chi)**

INJURIES

[An apparatus for the treatment of mandibular fractures within the dental arch] Sadykov MI, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):79-80 **(Rus)**

PATHOLOGY

Arch perimeter changes on rapid palatal expansion. Adkins MD, et al. **Am J Orthod Dentofacial Orthop** 1990 Mar; 97(3):194-9

The use of labial root torque and the tie-forward technique in the treatment of maxillary skeletal retrusion and severe arch length discrepancy. Catania JA, et al. **Am J Orthod Dentofacial Orthop** 1990 Jul;98(1):12-8

Mandibular arch length increase during the mixed dentition: postretention evaluation of stability and relapse. Little RM, et al. **Am J Orthod Dentofacial Orthop** 1990 May; 97(5):393-404

A study model analysis of adult unoperated Sri Lankans with unilateral cleft lip and palate. McCance AM, et al. **Cleft Palate J** 1990 Apr;27(2):146-54; discussion 174-5

PHYSIOLOGY

[Metrical studies of the soft-tissue behavior in the anterior dental arch in correct and prognathic anterior occlusion] Bookhold P, et al. **Zahn Mund Kieferheilkd** 1989; 77(8):801-6 (Eng. Abstr.) **(Ger)**

[Relation of parameters of the dental arches and the temporomandibular joints in intact orthognathic bite] Parilov VV, et al. **Stomatologiia (Mosk)** 1990 Mar-Apr; 69(2):55-7 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

How much reduction of the dental arch is functionally acceptable for the ageing patient? Käyser AF. **Int Dent J** 1990 Jun;40(3):183-8 (12 ref.)

Oral comfort in shortened dental arches. Witter DJ, et al. **J Oral Rehabil** 1990 Mar;17(2):137-43 (23 ref.)

DENTAL ARTICULATORS see under **DENTAL EQUIPMENT**

DENTAL ASSISTANTS

'Needlestick injuries to dental staff' [letter; comment] **Br Dent J** 1989 Nov 25;167(10):332-3 Comment on: Br Dent J 1989 Oct 21;167(8):265-6.

No holds: barred dental assisting in prison. Lee CA. **J Can Dent Assoc** 1990 Jul;56(7):615-6

[Dentists, be careful—AIDS!] Khazanova VV, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):4-8 **(Rus)**

EDUCATION

Simple and time-saving computer programs for chairside assistants. Birn H, et al. **J Dent Educ** 1989 Oct; 53(10):577-80

LEGISLATION & JURISPRUDENCE

"The orthodontic skill mix in Sweden' [letter] **Br Dent J** 1990 Apr 7;168(7):278

PSYCHOLOGY

Work-related stress and its predictors among Canadian dental assistants. Locker D, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):263-6

Ontario dental assistants' job satisfaction: relationship to work stress and intention to change jobs. Burman D. **J Can Dent Assoc** 1990 Jul;56(7):617-20

SUPPLY & DISTRIBUTION

Dental manpower [letter] Scully C, et al. **Br Dent J** 1990 Jun 9;168(11):430

TRENDS

[The future of the dental assistant profession] Walter C. **Schweiz Monatsschr Zahnmed** 1989;99(7):842-4 **(Ger)**

DENTAL AUXILIARIES

Mercury, selenium, and glutathione peroxidase in dental personnel. Molin M, et al. **Acta Odontol Scand** 1989 Dec; 47(6):383-90

Teaching resuscitation—can we improve? Middlehurst RJ, et al. **Br Dent J** 1989 Nov 25;167(10):347-8

Needlestick injuries to dental staff [letter] [see comments] Porter KM, et al. **Br Dent J** 1989 Oct 21;167(8):265-6 Comment in: Br Dent J 1989 Nov 25;167(10):332-3.

Foetotoxic effects of mercury vapour [letter] Scully C. **Br Dent J** 1989 Nov 25;167(10):332

Occupational health problems and adverse patient reactions in orthodontics. Jacobsen N, et al. **Eur J Orthod** 1989 Aug; 11(3):254-64

The role of biomaterials as occupational hazards in dentistry. Hensten-Pettersen A, et al. **Int Dent J** 1990 Jun; 40(3):159-66 (44 ref.)

Eye protection in dental practice. Stokes AN, et al. **N Z Dent J** 1990 Jan;86(383):14-5

LEGISLATION & JURISPRUDENCE

"The orthodontic skill mix in Sweden' [letter] **Br Dent J** 1990 Apr 7;168(7):278

TRENDS

Unity in dentistry [letter; comment] Atkinson HF. **Aust Dent J** 1989 Oct;34(5):487 Comment on: Aust Dent J 1989 Feb;34(1):69-74.

DENTAL BRIDGEWORK see **DENTURE, PARTIAL**

DENTAL CALCULUS

ANALYSIS

[Study on mercury in dental calculus] Fujita Y. **Kokubyo Gakkai Zasshi** 1989 Jun;56(2):347-60 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

The residual calculus paradox [editorial; comment] Robertson PB. **J Periodontol** 1990 Jan;61(1):65-6 Comment on: J Periodontol 1990 Jan;61(1):3-8. Comment on: J Periodontol 1990 Jan;61(1):9-15. Comment on: J Periodontol 1990 Jan;61(1):16-20.

DRUG THERAPY

Reduction of calculus accumulation in domestic ferrets with two dentifrices containing pyrophosphate. Mann PH, et al. **J Dent Res** 1990 Feb;69(2):451-3

ETIOLOGY

Kidney calculus link? [letter] Fazackerley AG. **Br Dent J** 1990 May 19;168(10):387

PATHOLOGY

The apical location of calculus within the intrabony defect. Richardson AC, et al. **J Periodontol** 1990 Feb;61(2):118-22

The effectiveness of subgingival scaling and root planning. I. Clinical detection of residual calculus [see comments] Sherman PR, et al. **J Periodontol** 1990 Jan;61(1):3-8 Comment in: J Periodontol 1990 Jan;61(1):65-6.

PHYSIOPATHOLOGY

Measurement of dietary and dentifrice effects upon calculus accumulation rates in the domestic ferret. Harper DS, et al. **J Dent Res** 1990 Feb;69(2):447-50

PREVENTION & CONTROL

Caries-preventive effect of fluoride dentifrices with and without anticalculus agents: a 3-year controlled clinical trial. Koch G, et al. **Caries Res** 1990;24(1):72-9

Circumoral dermatitis and cheilitis caused by tartar control dentifrices. Beacham BE, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1029-32

Improvement of gingival health by toothbrushing in individuals with large amounts of calculus. Gaare D, et al. **J Clin Periodontol** 1990 Jan;17(1):38-41

Six-month study of the effect of a dentifrice containing zinc citrate and triclosan on plaque, gingival health, and calculus. Svatun B, et al. **Scand J Dent Res** 1990 Aug; 98(4):301-4

[Dental calculus-inhibiting tooth pastes and mouthwashes. A review of the literature of clinical trials] Barbakow F, et al. **Schweiz Monatsschr Zahnmed** 1989;99(8):902-6 (29 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Total calculus removal: an attainable objective? [see comments] Kepic TJ, et al. **J Periodontol** 1990 Jan; 61(1):16-20 Comment in: J Periodontol 1990 Jan;61(1):65-6.

The effectiveness of subgingival scaling and root planing. II. Clinical responses related to residual calculus [see comments] Sherman PR, et al. **J Periodontol** 1990 Jan; 61(1):9-15 Comment in: J Periodontol 1990 Jan;61(1):65-6.

ULTRASTRUCTURE

Bacillus-shaped deposits composed of hexahedrally based crystals in human dental calculus. Kodaka T, et al. **Scanning Microsc** 1989 Sep;3(3):843-53; discussion 853-4

Morphology and chemical composition of dental calculi mainly composed of whitlockite. Sakae T, et al. **Scanning Microsc** 1989 Sep;3(3):855-60

[Ultrastructural morphological study of supragingival tartar] Lo Storto S, et al. **Minerva Stomatol** 1990 Feb;39(2):83-9 (Eng. Abstr.) **(Ita)**

VETERINARY

Effect of chewing rawhide and cereal biscuit on removal of dental calculus in dogs. Lage A, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):213-9

Epidemiological study on periodontal diseases and some other dental disorders in dogs. Isogai H, et al. **Nippon Juigaku Zasshi** 1989 Dec;51(6):1151-62

DENTAL CARE

see related
COMPREHENSIVE DENTAL CARE

An estimation of dental treatment needs in two groups of refugees in Sweden. Zimmerman M, et al. **Acta Odontol Scand** 1990 Jun;48(3):175-82

Does prophylaxis prevent postdental infective endocarditis? A controlled evaluation of protective efficacy. Imperiale TF, et al. **Am J Med** 1990 Feb;88(2):131-6

Provision of orthodontic and general dental care under Medicaid in New York State. Salzmann JA. **Am J Orthod** 1967 Aug;53(8):618-9

Management of the ageing dental patient. Ettinger RL. **Ann Acad Med Singapore** 1989 Sep;18(5):507-15 (68 ref.)

Unperceived dental needs in a group of Malaysian elderly patients. Razak IA, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):516-8

Assessment of dental care delivery to institutionalised aged in Singapore. Soh G, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):519-22

Change in dental treatment needs in an urban pediatric population, 1977 to 1987. Spencer P, et al. **ASDC J Dent Child** 1989 Nov-Dec;56(6):463-6

Dental care in Papua New Guinea. Cowan D. **Br Dent J** 1990 Mar 24;168(6):265

The benefit of dental care to an elderly population assessed using a sociodental measure of oral handicap. Fiske J, et al. **Br Dent J** 1990 Feb 24;168(4):153-6

Dental care for elderly people by general dental practitioners.

Hamilton FA, et al. **Br Dent J** 1990 Feb 10;168(3):108–12
'Lifesaver' seminars [letter] Holden CG. **Br Dent J** 1989 Nov 11;167(9):303–4
'Prophylactic antibiotics' [letter] Quint JH. **Br Dent J** 1990 Jul 21;169(2):38
The new CDA uniform system of codes and list of services. Part II—What's new? Crawford PR. **Can Dent Assoc J** 1989 Nov;55(11):879–80
Areas of neglect and controversy in the dental care of children with Hodgkin's disease. Purdell-Lewis DJ, et al. **Cancer Treat Res** 1989;41:221–30 (48 ref.)
Quality of dental restorations and dental treatment in Dutch schoolchildren. Carpay JJ, et al. **Community Dent Health** 1990 Mar;7(1):43–51
Dental screening of long stay geriatric patients in West Essex and recommendations for their care. Tobias B, et al. **Community Dent Health** 1990 Mar;7(1):93–8
Value of the teeth. Schuurs AH, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):22–6
Dental treatment needs in an elderly population referred to a geriatric hospital in Switzerland. Stuck AE, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):267–72
Antibiotic prophylaxis in dental procedures. Ballard C, et al. **DICP** 1990 Jan;24(1):41–3
Dental health-related behaviour in Scottish schoolchildren aged 11, 13 and 15 from Edinburgh city. Currie C, et al. **Health Bull (Edinb)** 1989 Jul;47(4):182–91
The merit of the practice–profile–time study. Backer JR, et al. **Int Dent J** 1990 Aug;40(4):195–205
Critical issues of ageing: the dentist as a supervisor of the general health of the elderly. Heyden G. **Int Dent J** 1990 Apr;40(2):63–6
A critical appraisal of antibiotic prophylaxis. Pallasch TJ. **Int Dent J** 1989 Sep;39(3):183–96 (112 ref.)
Practice profile time survey and government policy. Tsui MF. **Int Dent J** 1989 Dec;39(4):269–73
The impact of a quality assessment program on the practice behavior of general practitioners: a follow-up study. Morris AL, et al. **J Am Dent Assoc** 1989 Dec;119(6):705–9
Teicoplanin for prophylaxis of endocarditis after dental bacteraemia. Gould IM. **J Antimicrob Chemother** 1990 Apr; 25(4):501–3 (30 ref.)
Dentistry for the homebound and institutionalized: the University of Manitoba's Home Dental Care Program. Galan D, et al. **J Can Dent Assoc** 1990 Jul;56(7):585–91
Commonly prescribed medical drugs and their significance in dental therapy. Part I—The antibiotics. Hardie J. **J Can Dent Assoc** 1990 Apr;56(4):337–9 (6 ref.)
Dental health status and treatment needs of elderly residents of Edmonton, Alberta. Kuc IM, et al. **J Can Dent Assoc** 1990 Jun;56(6):521–5
No holds: barred dental assisting in prison. Lee CA. **J Can Dent Assoc** 1990 Jul;56(7):615–6
A dental cancer education program: oral care for the cancer patient. Burns JC, et al. **J Cancer Educ** 1989;4(1):67–8
Prevalence of incipient radiographic periodontal lesions in relation to ethnic background and dental care provisions in young adults. Albandar JM. **J Clin Periodontol** 1989 Nov;16(10):625–9
Curriculum guidelines for management of medical emergencies in dental education. **J Dent Educ** 1990 Jun; 54(6):337–8
The "hypocritic" oath [editorial] Laskin DM. **J Oral Maxillofac Surg** 1990 Apr;48(4):335
Behçet's disease and dental treatment [letter] Hamza M. **J Rheumatol** 1989 Dec;16(12):1612–3
More on endocarditis guidelines [letter] Kopp WK. **N Y State Dent J** 1990 Mar;56(3):8
Informed consent [editorial] **N Z Dent J** 1990 Jan;86(383):1
Emergency dental care. Mueller WA. **Pediatrician** 1989; 16(3–4):147–52
Dental procedures and endocarditis prophylaxis in patients with prosthetic heart valves: results of a questionnaire to 220 patients. Gutschik E, et al. **Scand J Infect Dis** 1989; 21(6):665–8
[General medicine criteria for the determination of dental care needs of geriatric patients] Stuck AE, et al. **Schweiz Med Wochenschr** 1989 Nov 11;119(45):1599–603 (Eng. Abstr.) **(Ger)**
[Amalgam maintenance. Maintenance of amalgam fillings: polishing, reburnishing, restoration or replacement?] Barbakow F, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(10):1151–63 **(Ger, Fre)**
[The role of the dentist in the pre- and postoperative treatment of the cancer patient] Pomatto E, et al. **Minerva Stomatol** 1990 Jun;39(6):467–70 (15 ref.) (Eng. Abstr.) **(Ita)**
[Combined anesthesia in pregnant women undergoing outpatient dental interventions] Shugallov IA, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):25–7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Cervicofacial emphysema following dental procedures [see comments] Monsour PA, et al. **Aust Dent J** 1989 Oct; 34(5):403–6 (8 ref.) Comment in: Aust Dent J 1990 Feb;35(1):79.
Bacteremia and dental treatment [letter] Drinnan AJ, et al. **J Am Dent Assoc** 1990 Apr;120(4):378
Subcutaneous air emphysema [letter; comment] Salon JM. **J Am Dent Assoc** 1990 Jun;120(6):652 Comment on: J Am Dent Assoc 1990 Apr;120(4):417–9.
Prophylactic antimicrobial coverage in arthroplasty patients [editorial] Nelson JP, et al. **J Bone Joint Surg [Am]** 1990 Jan;72(1):1
Late infection after total hip replacement, caused by an oral organism after dental manipulation. A case report. Sullivan PM, et al. **J Bone Joint Surg [Am]** 1990 Jan;72(1):121–3
Clindamycin and dentists [letter] Williams M. **Lancet** 1990 Mar 31;335(8692):787
[Allergic and pseudoallergic reactions. Allergic and pseudoallergic reactions connected with dental interventions] Huwyler T, et al. **Schweiz Monatsschr Zahnmed** 1990;100(6):751–9 **(Ger, Fre)**

ECONOMICS

'The capitation study—your questions answered' [letter] Frazer ML. **Br Dent J** 1989 Dec 9–23;167(11):369–70
The Capitation Study. 2. Does capitation encourage more prevention? Lennon MA, et al. **Br Dent J** 1990 Mar 10; 168(5):213–5
The capitation study. 3. The views of participating dentists and the profession. Mellor AC, et al. **Br Dent J** 1990 Apr 7;168(7):303–5
A comparison of quality in a dual-choice dental plan: capitation versus fee-for-service. Atchison KA, et al. **J Public Health Dent** 1990 Spring;50(3):186–93
Variation in dentist service rates in a homogeneous patient population. Grembowski D, et al. **J Public Health Dent** 1990 Summer;50(4):235–43
Factors influencing variation in dentist service rates. Grembowski D, et al. **J Public Health Dent** 1990 Summer; 50(4):244–50
Issues in financing dental care for the elderly. Jones JA, et al. **J Public Health Dent** 1990 Summer;50(4):268–75 (44 ref.)
Workers compensation: authorization advised [letter] Firestein AL. **N Y State Dent J** 1990 Jun–Jul;56(6):9

LEGISLATION & JURISPRUDENCE

Get it in writing [letter] Cohen M. **J Am Dent Assoc** 1990 Jul;121(1):10

METHODS

A physician's guide to coordinating oral health and primary care. Shuman SK. **Geriatrics** 1990 Aug;45(8):47–51, 54, 57 (17 ref.)
Antibiotic prophylaxis for dental patients with prosthetic joints. Schaaf JE, et al. **Indiana Med** 1989 Dec;82(12):960–6
[A global approach to the dental care of children and young adults with trisomy 21. I. The dental and orofacial characteristics of Down's syndrome] Radovich F, et al. **Minerva Stomatol** 1989 Oct;38(10):1095–103 (31 ref.) (Eng. Abstr.) **(Ita)**
[A global approach to the dental care of children and young adults with trisomy 21. II. The planning of the preventive and interceptive care of Down's syndrome patients] Radovich F, et al. **Minerva Stomatol** 1989 Oct; 38(10):1105–16 (24 ref.) (Eng. Abstr.) **(Ita)**
[Dental therapy in patients with coagulopathies] Rapalino M, et al. **Minerva Stomatol** 1990 Mar;39(3):231–2 (Eng. Abstr.) **(Ita)**

PSYCHOLOGY

Pre-school children with uncooperative behavior in the dental situation. Some characteristics and background factors. Mejàre I, et al. **Acta Odontol Scand** 1989 Dec; 47(6):337–45
A clinical evaluation of high- and low-fear children in Singapore. Vignehsa H, et al. **ASDC J Dent Child** 1990 May–Jun;57(3):224–8
Predictions of dental pain: the fear of any expected evil, is worse than the evil itself. Arntz A, et al. **Behav Res Ther** 1990;28(1):29–41
A cross-cultural cross validation of the Dental Fear Survey in South East Asia. Milgrom P, et al. **Behav Res Ther** 1990; 28(3):227–33
An 'unpleasant' aspect of dentistry [letter; comment] **Br Dent J** 1989 Nov 11;167(9):302 Comment on: Br Dent J 1989 Sep 23;167(6):186–7.
Reactivity of the measurement of cognitions associated with dental anxiety. Kent G. **Br J Clin Psychol** 1989 Sep;28 (Pt 3):239–46
Challenges and dilemmas in behaviour guidance of the pediatric dental patient. Harrison RL, et al. **Can Dent Assoc J** 1989 Oct;55(10):793–5
An overview of non-pharmacological pedodontic behaviour management techniques for the general practitioner. Piedalue RJ, et al. **Can Dent Assoc J** 1990 Feb;56(2):137–44 (50 ref.)
Vasodepressor syncope. Precious DS, et al. **Can Dent Assoc J** 1990 Jan;56(1):32–5
Normative data for Corah's Dental Anxiety Scale (DAS) for the Norwegian adult population. Neverlien PO. **Community Dent Oral Epidemiol** 1990 Jun;18(3):162
Prevalence of dental anxiety in The Netherlands. Stouthard ME, et al. **Community Dent Oral Epidemiol** 1990 Jun; 18(3):139–42
Dental survey: patient attitudes in Jordan. Allan DN, et al. **Int Dent J** 1990 Apr;40(2):122–6
Prevalence of dental fear in young adult Singaporeans. Teo CS, et al. **Int Dent J** 1990 Feb;40(1):37–42
Dental phobia. Conquering fear with trust. **J Am Dent Assoc** 1989 Nov;119(5):593–8
Patients' attitudes toward dentistry and AIDS. Gerbert B, et al. **J Am Dent Assoc** 1989 Nov;Suppl:16S–21S
Distraction: its utilization and efficacy with children undergoing dental treatment. Stark LJ, et al. **J Appl Behav Anal** 1989 Fall;22(3):297–307
Personality characteristics versus medical and dental experiences of dentally anxious children. Liddell A. **J Behav Med** 1990 Apr;13(2):183–94
A longitudinal study of the contribution of dental experience to dental anxiety in children between 9 and 12 years of age. Murray P, et al. **J Behav Med** 1989 Jun;12(3):309–20
Determinants of dentists' management of difficult child patients. Wright FA, et al. **J Behav Med** 1990 Apr; 13(2):175–82
Pediatric behavioral dentistry. Allen KD, et al. **Prog Behav Modif** 1989;24:60–90 (117 ref.)
A 10-year follow-up of patients treated for dental fear. Hakeberg M, et al. **Scand J Dent Res** 1990 Feb;98(1):53–9
[Principles in medical ethics and duties in working with dental patients] Rajić Z, et al. **Lijec Vjesn** 1989 Sep–Oct; 111(9–10):360–5 (Eng. Abstr.) **(Scr)**

STANDARDS

Legal aspects of orthodontic practice: risk management concepts. Periodontal evaluation and updates: don't abdicate your duty to diagnose and supervise. Machen DE. **Am J Orthod Dentofacial Orthop** 1990 Jul;98(1):84–5
The levels of quality assurance in dentistry. Atchison KA. **J Dent Educ** 1989 Nov;53(11):670–2
Response to John Klyop: the role of dental education in promoting quality assurance. Capilouto E. **J Dent Educ** 1989 Nov;53(11):679–8
Evaluations of effectiveness and quality of care. Crall JJ. **J Dent Educ** 1989 Nov;53(11):673–6
Focusing on quality assurance—the profession's collective efforts. Klyop JS. **J Dent Educ** 1989 Nov;53(11):677–8
Quality assurance: moving toward implementation. Maryniuk GA. **J Dent Educ** 1989 Nov;53(11):681–2
A quality assessment system: the search for validity. Schoen MH. **J Dent Educ** 1989 Nov;53(11):658–69
[International research project, "The effectiveness of stomatological care and stomatological status of the population"] Kanep VV, et al. **Sov Zdravookhr** 1989; (11):27–31 **(Rus)**

STATISTICS & NUMERICAL DATA

The capitation study. 1. Does capitation encourage "supervised neglect"? [see comments] Holloway PJ, et al. **Br Dent J** 1990 Feb 10;168(3):119–21 Comment in: Br Dent J 1990 Mar 24;168(6):230–1.
Dental health in residential and nursing homes for elderly people in the south Birmingham health district. Taylor K. **Br Dent J** 1990 Feb 24;168(4):167–9
A trial of a capitation system of payment for the treatment of children in the General Dental Service. Final report. Dental Health Services Research Unit, University of Manchester. September, 1989. Coventry P, et al. **Community Dent Health** 1989 Dec;6 Suppl 1:1–63
A comparison between dental caries, gingival health and dental service usage in Bangladeshi and white Caucasian children aged 7, 9, 11, 13 and 15 years residing in an inner city area of London, UK. Laher MH. **Community Dent Health** 1990 Jun;7(2):157–63
Dental treatment demands among patients in Tanzania. van Palenstein Helderman WH, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):85–7
Effect of a geriatric educational experience on graduates activities and attitudes. Ettinger RL, et al. **J Dent Educ** 1990 May;54(5):273–8

TRENDS

Primary dental care in Canadian Arctic communities. Davey KW. **Arctic Med Res** 1988;47 Suppl 1:562–3

UTILIZATION

Developing population profiles from dental claims data for conceptualizing effectiveness of care. Hayden WJ, et al. **J Dent Educ** 1989 Nov;53(11):619–28
Oral health status of Mexican-Americans with low and high acculturation status: findings from southwestern HHANES, 1982–84. Ismail AI, et al. **J Public Health Dent** 1990 Winter; 50(1):24–31
Social network and regular dental care utilisation in elderly men. Results from the population study "Men born in 1914", Malmö, Sweden. Rickardsson B, et al. **Swed Dent J** 1989;13(4):151–61
[Meteorologic effects on dental pain conditions] Schmädicke R, et al. **Z Gesamte Hyg** 1990 Jan;36(1):57–8 (Eng. Abstr.) **(Ger)**

DENTAL CARE FOR HANDICAPPED

Orthodontics and the retarded child. Jackson EF. **Am J Orthod** 1967 Aug;53(8):596–605
A study of behavior modification for developmentally disabled children. Boj JR, et al. **ASDC J Dent Child** 1989 Nov–Dec;56(6):452–7
Efficacy and safety of intravenous ketamine for the severely

handicapped. Seiler CL, et al. **ASDC J Dent Child** 1990 Jul–Aug;57(4):263–6

Laser therapy for a haemophiliac. Case report. Chellappah NK, et al. **Aust Dent J** 1990 Apr;35(2):121–4

A new learning package [letter] Bickley SR. **Br Dent J** 1989 Oct 7;167(7):224–5

Communication with deaf people in the surgery setting [see comments] Hector S, et al. **Br Dent J** 1989 Nov 25; 167(10):350–2 Comment in: Br Dent J 1990 Feb 10;168(3):93.

Oral medicine in practice: the medically compromised patient. Lamey PJ, et al. **Br Dent J** 1990 May 19; 168(10):389–94

Dental services for children with mental handicaps: policy changes and parental choices [see comments] Manley MC, et al. **Br Dent J** 1989 Sep 9;167(5):163–7 Comment in: Br Dent J 1989 Oct 21;167(8):266. Comment in: Br Dent J 1990 Feb 10;168(3):93.

Insensitive headline [letter] Marsland EA. **Br Dent J** 1989 Sep 23;167(6):187

The role of dentistry in patients undergoing bone marrow transplantation. Maxymiw WG, et al. **Br Dent J** 1989 Oct 7;167(7):229–34 (40 ref.)

Oral cancer and precancer: after-care and terminal care. Morton M, et al. **Br Dent J** 1990 Apr 7;168(7):283–7

'Dental services for children with mental handicaps: policy changes and parental choices' [letter; comment] Pahl J, et al. **Br Dent J** 1989 Dec 9–23;167(11):370 Comment on: Br Dent J 1989 Oct 21;167(8):266.

'Dental services for children with mental handicaps: policy changes and parental choices' [letter] [published erratum appears in Br Dent J 1989 Nov 11;167(9):304] [comment] [see comments] Timans JK. **Br Dent J** 1989 Oct 21; 167(8):266 Comment on: Br Dent J 1989 Sep 9;167(5):163–7. Comment in: Br Dent J 1989 Dec 9–23;167(11):370.

Special facilities for dental treatment of patients with AIDS? [letter] Mulcahy DF. **Can Dent Assoc J** 1990 Jan;56(1):27–8

Dental health of handicapped children; results of a questionnaire to parents. Nunn JH, et al.
Community Dent Health 1990 Mar;7(1):23–32 (32 ref.)

Controversies in the prevention of infective endocarditis related to dental procedures. Fekete T.
Dent Clin North Am 1990 Jan;34(1):79–90 (40 ref.)

Oral tissue changes of radiation–oncology and their management. Fleming TJ. **Dent Clin North Am** 1990 Apr; 34(2):223–37 (9 ref.)

Oral care of chemotherapy patients. Rosenberg SW.
Dent Clin North Am 1990 Apr;34(2):239–50 (11 ref.)

Medical conditions of importance in dental practice. Drinnan AJ. **Int Dent J** 1990 Aug;40(4):206–10

Dental care experience of HIV–positive patients. Gerbert B, et al. **J Am Dent Assoc** 1989 Nov;119(5):601–3

The reaction of dentists to members of groups at risk of AIDS. Hazelkorn HM. **J Am Dent Assoc** 1989 Nov; 119(5):611–9

To treat or not to treat [letter] [see comments] Houpt M. **J Am Dent Assoc** 1990 Apr;120(4):378, 380 Comment in: J Am Dent Assoc 1990 Jun;120(6):652.

Dental care experience of HIV–infected men in Chicago. Jacobson JA, et al. **J Am Dent Assoc** 1989 Nov;119(5):605–8

Ethics and the patient with dementia. Shuman SK.
J Am Dent Assoc 1989 Dec;119(6):747–8

HIV [editorial] Wathan B. **J Am Dent Assoc** 1989 Nov; 119(5):688

Psychosocial aspects of HIV/AIDS care. Wesch JE, et al. **J Am Dent Assoc** 1989 Nov;Suppl:12S–15S

Diagnosis and management of HIV–associated periodontal lesions. Winkler JR, et al. **J Am Dent Assoc** 1989 Nov; Suppl:25S–34S (47 ref.)

'Puzzled' by letters: a double standard? [letter] Bonang DM. **J Can Dent Assoc** 1990 Apr;56(4):301–2

An update on the human immunodeficiency virus and infection control. Hardie J. **J Can Dent Assoc** 1990 May; 56(5):423–6

Does the dental profession care for disabled elders? Some practical questions. MacEntee MI. **J Can Dent Assoc** 1990 Mar;56(3):215–7 (16 ref.)

Curriculum guidelines for training general practice residents to treat the person with a handicap. **J Dent Educ** 1990 May;54(5):293–6

A predoctoral program in dental care for the developmentally disabled. Ferguson FS, et al.
J Dent Educ 1990 Sep;54(9):576–8

The Missouri Elks Mobile Dental Program—dental care for developmentally disabled persons. Dane JN.
J Public Health Dent 1990 Winter;50(1):42–7

The dentist and the pediatric oncology patient. Best JM.
N Y State Dent J 1990 Feb;56(2):29–30

Oral health care in pediatric AIDS. Davis MJ.
N Y State Dent J 1990 Feb;56(2):25–7

Dentistry and the pediatric cardiac transplant patient. Myers R, et al. **N Y State Dent J** 1990 Feb;56(2):31–4 (16 ref.)

Modification of procedures to provide for prosthetic rehabilitation in a hospital inpatient. Waldron JM, et al.
N Y State Dent J 1990 Mar;56(3):24–6 (11 ref.)

Pathogenesis, management, and prevention of infective endocarditis in the elderly dental patient. Friedlander AH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Feb; 69(2):177–81 (66 ref.)

Dental care for the chronically ill child. Boraz RA.
Pediatrician 1989;16(3–4):193–9 (59 ref.)

Dental procedures and endocarditis prophylaxis: experiences from 108 dental practices. Gutschik E, et al.
Scand J Dent Res 1990 Apr;98(2):144–8

[Dental care for a handicapped person] Tétreault S, et al.
J Can Dent Assoc 1990 May;56(5):433–5 (Eng. Abstr.) (Fre)

[Use of a customized nasal airflow mask in patients with Duchenne's myopathy] Compère JF, et al.
Rev Stomatol Chir Maxillofac 1990;91(4):313–8 (Eng. Abstr.) (Fre)

[The oral health status and the tasks of pediatric dental care for mentally handicapped children and adolescents] Maiwald HJ, et al. **Zahn Mund Kieferheilkd** 1990;78(1):11–7 (Eng. Abstr.) (Ger)

METHODS

[Dental care of the handicapped in intubation anesthesia. The outpatient dental care of handicapped patients in intubation anesthesia at a rehabilitation center] Cichon P, et al.
Schweiz Monatsschr Zahnmed 1990;100(6):741–50 (Ger, Fre)

ORGANIZATION & ADMINISTRATION

[The time requirements for the dental treatment of independent and handicapped geriatric patients. An epidemiological study] Stuck AE, et al.
Schweiz Monatsschr Zahnmed 1989;99(11):1261–6 (Eng. Abstr.) (Ger)

[Problem of stomatologic treatment of special–care children] Wąsek A, et al. **Wiad Lek** 1989 May 1;42(9):590–3 (Eng. Abstr.) (Pol)

PSYCHOLOGY

Dental hygienists' attitudes towards dental care for people with a mental handicap and their perceptions of the adequacy of their training. Bickley SR. **Br Dent J** 1990 May 5;168(9):361–4

STANDARDS

Principles governing the prosthodontic treatment of patients with cardiac transplants. Carpendale JJ, et al.
J Am Dent Assoc 1989 Oct;119(4):517–21

Dentists who refuse to treat AIDS, hepatitis B patients—"discriminating" [news] **J Can Dent Assoc** 1990 May;56(5):371

AIDS information. Collected and abstracted by the Committee on Infection Control. **N Y J Dent** 1989 Nov; :9–10

STATISTICS & NUMERICAL DATA

Long–term effects of a course on dental care for handicapped persons. Bedi R, et al. **J Dent Educ** 1989 Dec;53(12):722–4

Increasing acceptance of hepatitis B vaccine by dental personnel but reluctance to accept hepatitis B carrier patients. Scully C, et al.
Oral Surg Oral Med Oral Pathol 1990 Jan;69(1):45–7

DENTAL CARE PLANS see **INSURANCE, DENTAL**

DENTAL CARIES

see related
CARIOGENIC AGENTS
CARIOSTATIC AGENTS
DIET, CARIOGENIC

Resin–bonded bridges: a note of caution [see comments] Gilmour AS. **Br Dent J** 1989 Aug 19;167(4):140–1 Comment in: Br Dent J 1989 Oct 7;167(7):224.

Production of artificial lesions for teaching cavity preparation in the phantom head. Treasure P. **J Dent Educ** 1990 May; 54(5):291–2

Root surface caries—an overview of aetiology, prevalence, prevention, and management. Thomson WM.
N Z Dent J 1990 Jan;86(383):4–9 (30 ref.)

BLOOD

Secretor status and dental caries in Iceland. Holbrook WP, et al. **FEMS Microbiol Immunol** 1989 Jun;1(6–7):397–9

CHEMICALLY INDUCED

[Suscard nitroglycerin and caries] **Lakartidningen** 1990 Jan 10;87(1–2):52 (Swe)

CLASSIFICATION

The Class II caries lesion. Part 2: Alternative direct cavity preparations. Hunter AR, et al. **N Z Dent J** 1989 Oct; 85(382):116–21 (64 ref.)

COMPLICATIONS

Capnocytophaga keratitis associated with poor dentition and human immunodeficiency virus infection. Ticho BH, et al.
Am J Ophthalmol 1990 Mar 15;109(3):352–3

Familial hypophosphatemic vitamin D–resistant rickets: review of the literature and report of case. Fadavi S, et al. **ASDC J Dent Child** 1990 May–Jun;57(3):212–5 (16 ref.)

Depth and area of dental erosions, and dental caries, in bulimic women. Jones RR, et al. **J Dent Res** 1989 Aug; 68(8):1275–8

[Gangrenous cervicofacial cellulitis of dental origin. Apropos of 11 cases] Romain P, et al.
Rev Stomatol Chir Maxillofac 1989;90(6):428–37 (Eng. Abstr.) (Fre)

[Epidemiologic study of the prevalence of dental caries in patients with Down syndrome] Alio Sanz JJ, et al.
Rev Sanid Hig Publica (Madr) 1989 Jan–Feb;63(1–2):63–70 (Eng. Abstr.) (Spa)

DIAGNOSIS

The use of a caries detector dye in cavity preparation. Kidd EA, et al. **Br Dent J** 1989 Aug 19;167(4):132–4

Fibre optic transillumination and radiographs in diagnosis of approximal caries in primary teeth. Holt RD, et al.
Community Dent Health 1989 Sep;6(3):239–47 (22 ref.)

Validation of methods used in dental caries diagnosis. Downer MC. **Int Dent J** 1989 Dec;39(4):241–6 (26 ref.)

Indices of root surface caries. Aherne CA, et al.
J Dent Res 1990 May;69(5):1222–6 (18 ref.)

Diagnosis of caries and treatment decisions in approximal surfaces of posterior teeth in vitro. Noar SJ, et al.
J Oral Rehabil 1990 May;17(3):209–18

[Probing and caries diagnosis. Is the explorer for caries diagnosis still useful?] Imfeld T, et al.
Schweiz Monatsschr Zahnmed 1990;100(7):872–6 (Ger, Fre)

[Fiber optics in the diagnosis of dental caries. Review of the literature] Nemes J. **Fogorv Sz** 1988 Oct;81(10):307–11 (18 ref.) (Hun)

[Current viewpoints and methods in caries diagnosis] Nemes J, et al. **Fogorv Sz** 1990 Jul;83(7):211–6 (40 ref.) (Eng. Abstr.) (Hun)

[A method for the early diagnosis of caries] Bokaia VG, et al. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):22–3 (Eng. Abstr.) (Rus)

DRUG THERAPY

[The use of lysoamidase for treating complications of caries and diseases of the periodontium and oral mucosa] Borovskiĭ EV, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug; 68(4):15–8 (Eng. Abstr.) (Rus)

ECONOMICS

[Economic aspects of treating uncomplicated and complicated forms of caries] Galiullin AN, et al.
Stomatologiia (Mosk) 1990 Mar–Apr;69(2):76–8 (Rus)

ENZYMOLOGY

Effects of lactate dehydrogenase on fissure caries in rats. Higham SM, et al. **Caries Res** 1990;24(1):39–43

EPIDEMIOLOGY

Methodological and nutritional issues in assessing the oral health of aged subjects. Carlos JP, et al.
Am J Clin Nutr 1989 Nov;50(5 Suppl):1210–8; discussion 1231–5 (43 ref.)

Prevalence of white spot lesions in 19–year–olds: a study on untreated and orthodontically treated persons 5 years after treatment. Ogaard B.
Am J Orthod Dentofacial Orthop 1989 Nov;96(5):423–7

The changing pattern of oral dental diseases. A global perspective. Nikiforuk G. **Aretic Med Res** 1988;47 Suppl 1:545–53 (40 ref.)

Caries among children with cerebral palsy: relation to CP–diagnosis, mental and motor handicap. Nielsen LA.
ASDC J Dent Child 1990 Jul–Aug;57(4):267–73

A clinical evaluation of high– and low–fear children in Singapore. Vignehsa H, et al. **ASDC J Dent Child** 1990 May–Jun;57(3):224–8

Decreases in dental caries do not mean that children no longer need dental services. Waldman HB.
ASDC J Dent Child 1990 Jul–Aug;57(4):294–8

The effect of fluoride consumption and social class on dental caries in 8–year–old children. Brown LP, et al.
Aust Dent J 1990 Feb;35(1):61–8

Fluoridation: the Brisbane fallacy [letter] Carr LM.
Aust Dent J 1990 Apr;35(2):191–2

Adult Dental Health 1988. **Br Dent J** 1990 Apr 7; 168(7):279–81

The annual report of the chief medical officer of the Department of Health: Dental Health. **Br Dent J** 1990 Jan 20;168(2):76–7

The changes in dental caries experience of 12–year–old schoolchildren in two Somerset schools. A review after an interval of 25 years [see comments] Anderson RJ.
Br Dent J 1989 Nov 11;167(9):312–4 Comment in: Br Dent J 1989 Dec 9–23;167(11):371.

'The changes in dental caries experience of 12–year–old schoolchildren in two Somerset schools. A review after an interval of 25 years' [letter; comment] Simmons SR. **Br Dent J** 1989 Dec 9–23;167(11):371 Comment on: Br Dent J 1989 Nov 11;167(9):312–4.

Dental caries prevalence in Vietnamese children and teenagers in three London boroughs. Todd R, et al.
Br Dent J 1990 Jan 6;168(1):24–6

Dental caries changes in the Scottish Isle of Lewis. Hargreaves JA, et al. **Caries Res** 1990;24(2):137–41

Caries experience in the deciduous dentition as predictor for caries in the permanent dentition. ter Pelkwijk A, et al.
Caries Res 1990;24(1):65–71

A reassessment of the dental health of urban Scottish schoolchildren following the cessation of water fluoridation. Attwood D, et al. **Community Dent Health** 1989 Sep;6(3):207–14

A three year follow up study of the dental health of 12- and 15-year-old schoolchildren in Glasgow. Attwood D, et al. **Community Dent Health** 1990 Jun;7(2):143–8

Caries predictors suitable for mass-screenings in children: a literature review. Demers M, et al. **Community Dent Health** 1990 Mar;7(1):11–21 (95 ref.)

The dental caries experience of 5 year old children in Great Britain. A survey coordinated by the British Association for the Study of Community Dentistry in 1987–88. Dowell TB, et al. **Community Dent Health** 1989 Sep;6(3):271–9

A comparison between the findings of a routine school dental inspection and epidemiological data from the same five year old children. Kelly K, et al. **Community Dent Health** 1989 Sep;6(3):233–8

Dental caries in children residing in communities in Saudi Arabia with differing levels of natural fluoride in the drinking water. al-Khateeb TL, et al. **Community Dent Health** 1990 Jun;7(2):165–71

A comparison between dental caries, gingival health and dental service usage in Bangladeshi and white Caucasian children aged 7, 9, 11, 13 and 15 years residing in an inner city area of London, UK. Laher MH. **Community Dent Health** 1990 Jun;7(2):157–63

Dental health of children and adults in Guinea-Bissau, West Africa, in 1986. Matthesen M, et al. **Community Dent Health** 1990 Jun;7(2):123–33

An assessment of dental caries prevalence among Gujurati, Pakistani and white Caucasian five-year-old children resident in Dewsbury, West Yorkshire. Prendergast MJ, et al. **Community Dent Health** 1989 Sep;6(3):223–32

Caries experience amongst 12- and 15-year-old Tanzanian children residing on a sugar estate. Rugarabamu P, et al. **Community Dent Health** 1990 Mar;7(1):53–8

Differences between caries levels in 5-year-old children from fluoridated Anglesey and non-fluoridated mainland Gwynedd in 1987. Seaman S, et al. **Community Dent Health** 1989 Sep;6(3):215–21

Exploratory analyses of caries data. Simmons SR. **Community Dent Health** 1990 Mar;7(1):81–91

Tooth loss and dental caries in institutionalized elderly in Italy. Angelillo IF, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):216–8

Oral health status of adult population in Athens, Greece. Athanassouli T, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):82–4

Dental status in a group of adult diabetic patients. Bačić M, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):313–6

Caries: a problem in an overdenture population. Ettinger RL, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):42–5

Correction factor for the M-component in DMFS-index in child and adolescent population in Tanzania. Frencken JE, et al. **Community Dent Oral Epidemiol** 1990 Jun; 18(3):159–60

Caries prevalence ratios in a Tanzanian child population. Frencken JE, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):227–9

Prevalence of dental caries in 7–13-yr-old children in Morogoro District, Tanzania, in 1984, 1986, and 1988. Frencken JE, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):2–8

Prevalence of root surface caries in 55, 65, and 75-year-old Swedish individuals. Fure S, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):100–5

Trend of caries prevalence in children and young adults in Israel. Gordon M, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):108

Caries among Danish schoolchildren in birth-cohorts 1950–78. Helm S, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):66–9

Caries prevalence, Streptococcus mutans and sugar intake among 4-year-old urban children in Iceland. Holbrook WP, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):292–5

Prediction of caries activity in children with today's low caries incidence. Klock B, et al. **Community Dent Oral Epidemiol** 1989 Dec;17(6):285–8

Five-year follow-up caries study among Nigerian children. Kubota K, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):197–9

Dental caries status and treatment needs of the permanent dentition of 6–12-year-olds in Hong Kong. Lo EC, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):9–11

Tooth mortality and prosthetic treatment patterns in urban and rural Chinese aged 20–80 years. Luan WM, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):221–6

Longitudinal study of caries and cariogenic bacteria in an elderly disabled population. MacEntee MI, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):149–52

What can variations in disease outcome tell us about risk? Manji F, et al. **Community Dent Oral Epidemiol** 1990 Apr; 18(2):106–7

Fluorosis and dental caries in 6–8-year-old children in a 5 ppm fluoride area. Mann J, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):77–9

Oral health of workers in the modern Finnish confectionery industry. Masalin K, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):126–30

Caries prevalence and microbiological and salivary caries activity tests in Scottish adolescents. Russell JI, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):120–5

Dental health of 12-year-old children in Athens. Salapata J, et al. **Community Dent Oral Epidemiol** 1990 Apr; 18(2):80–1

Past caries recordings made in Public Dental Clinics as predictors of caries prevalence in early adolescence. Seppä L, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):277–81

Dental caries experience in schoolchildren in fluoridated and non-fluoridated communities in Western Australia. Stockwell AJ, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):184–9

Correlation between child caries incidence and S. mutans/lactobacilli in saliva after correction for confounding factors. Sullivan A, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):240–4

Dental treatment demands among patients in Tanzania. van Palenstein Helderman WH, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):85–7

Caries in fissures of permanent first molars as a predictor for caries increment. van Palenstein Helderman WH, et al. **Community Dent Oral Epidemiol** 1989 Dec;17(6):282–4

Caries prevalence in the deciduous dentition of a Tanzanian urban and rural child population in relation to levels of fluoride in drinking water in 1984, 1986 and 1988. Frencken JE, et al. **East Afr Med J** 1990 Apr;67(4):237–45

Prevalence of Streptococcus mutans and dental decay in schoolchildren living in Genoa (Italy). De Leo C, et al. **Eur J Epidemiol** 1990 Jun;6(2):166–74

Dental health of Spanish children: an investigation in primary care. Turabián JL, et al. **Fam Pract** 1990 Mar;7(1):24–7

Teething pattern and prevalence of dental caries. Khan MU, et al. **Indian J Pediatr** 1990 Jan-Feb;57(1):105–8

Factors influencing development of caries teeth. Khan MU, et al. **Indian J Pediatr** 1990 Jan-Feb;57(1):109–13

Comparison of the dental health of 12-year-old schoolchildren living in Athens and Glasgow. Attwood D, et al. **Int Dent J** 1990 Apr;40(2):117–21

Has the decline in dental caries been halted? Changes in caries prevalence amongst 6- and 12-year-old children in Friesland, 1973–1988. Frencken JE, et al. **Int Dent J** 1990 Aug;40(4):225–30

Adult root caries survey of two similar communities with contrasting natural water fluoride levels. Stamm JW, et al. **J Am Dent Assoc** 1990 Feb;120(2):143–9

The effect of nutritional status on the age distribution of dental caries in the primary teeth. Alvarez JO, et al. **J Dent Res** 1990 Sep;69(9):1564–6

The epidemiology of root surface caries. Beck J. **J Dent Res** 1990 May;69(5):1216–21 (28 ref.)

Associations between salivary levels of Streptococcus mutans, Streptococcus sobrinus, lactobacilli, and caries experience in Kenyan adolescents. Beighton D, et al. **J Dent Res** 1989 Aug;68(8):1242–6

Recent trends in dental caries in U.S. children and the effect of water fluoridation. Brunelle JA, et al. **J Dent Res** 1990 Feb;69 Spec No:723–7; discussion 820–3

Cohort effects in the prevalence of caries in child populations in Tanzania. Frencken JE, et al. **J Dent Res** 1989 Dec; 68(12):1777–80

The effects of airborne fluorides on oral conditions in Morocco. Haikel Y, et al. **J Dent Res** 1989 Aug; 68(8):1238–41

Dental caries prevalence and the use of fluorides in different European countries. Kalsbeek H, et al. **J Dent Res** 1990 Feb;69 Spec No:728–32; discussion 820–3

The caries status of occlusal amalgam restorations with marginal defects. Kidd EA, et al. **J Dent Res** 1990 Jun; 69(6):1275–7

Dental caries in adult and elderly Chinese. Luan WM, et al. **J Dent Res** 1989 Dec;68(12):1771–6

Dental caries in developing countries in relation to the appropriate use of fluoride. Manji F, et al. **J Dent Res** 1990 Feb;69 Spec No:733–41; discussion 820–3 (114 ref.)

The future of water fluoridation. O'Mullane DM. **J Dent Res** 1990 Feb;69 Spec No:756–9; discussion 820–3

Mutans streptococci, oral hygiene, and caries in an adult Swedish population. Salonen L, et al. **J Dent Res** 1990 Aug;69(8):1469–75

Prevalence of dental caries, gingivitis, and oral hygiene in hospitalized AIDS cases in Kinshasa, Zaire. Tukutuku K, et al. **J Oral Pathol Med** 1990 Jul;19(6):271–2

The University of North Carolina Caries Risk Assessment Study. II. Baseline caries prevalence. Disney JA, et al. **J Public Health Dent** 1990 Spring;50(3):178–85

Caries incidence and costs of prevention programs. Garcia AI. **J Public Health Dent** 1989;49(5 Spec No):259–71

Oral health status of Mexican-Americans with low and high acculturation status: findings from southwestern HHANES, 1982–84. Ismail AI, et al. **J Public Health Dent** 1990 Winter; 50(1):24–31

Examiner agreement between hygienists and dentists for caries prevalence examinations. Mauriello SM, et al. **J Public Health Dent** 1990 Winter;50(1):32–7

Oral health status of a federal prison population. Mixson JM, et al. **J Public Health Dent** 1990 Summer;50(4):257–61

Excerpts from presentation on epidemiologic data and changing demographics. Stamm J. **J Public Health Dent** 1990;50(2 Spec No):124–7

Prediction of efficacy of bitewing radiographs for caries detection. White SC, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):506–13

Prevalence of caries and salivary levels of mutans streptococci in 5-year-old children in relation to duration of breast feeding. Alaluusua S, et al. **Scand J Dent Res** 1990 Jun;98(3):193–6

Cross-sectional study of patients fitted with fixed partial dentures with special reference to the caries situation. Ericson G, et al. **Scand J Dent Res** 1990 Feb;98(1):8–16

Correlation between caries experience in primary and permanent dentition in birth-cohorts 1950–70. Helm S, et al. **Scand J Dent Res** 1990 Jun;98(3):225–7

Caries and consumption of sweets in 15- and 18-year-olds interviewed with visualization. Sundin B. **Scand J Dent Res** 1990 Apr;98(2):96–101

Dental caries and related factors—a longitudinal study of Finnish immigrant children in the north of Sweden. Ekman A. **Swed Dent J** 1990;14(2):93–9

Association between dental caries prevalence and Streptococcus mutans among 13-year-old children. Chia JS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun; 88(6):589–94

[Caries prevalence and dental hygiene in a group of school-age children] Van Nieuwenhuysen JP, et al. **Arch Belg** 1989;47(1–4):38–41 (Eng. Abstr.) **(Fre)**

[Caries morbidity in infants and preschool children with reference to social factors of influence] Graehn G, et al. **Arztl Jugendkd** 1989;80(5):270–6 (Eng. Abstr.) **(Ger)**

[Dental caries in the support area and the therapeutic problem of the positioning of the canines and premolars in the dental arches] Legović M. **Fortschr Kieferorthop** 1989 Dec; 50(6):577–83 (Eng. Abstr.) **(Ger)**

[Epidemiologic investigations on caries prevalence among schoolchildren in Brittany (France)] Bohne W, et al. **Schweiz Monatsschr Zahnmed** 1989;99(8):892–6 (Eng. Abstr.) **(Ger)**

[Will discolored molar fissures within 4 years become carious more frequently than nondiscolored ones? Observations from 1975 to 1988] Marthaler TM, et al. **Schweiz Monatsschr Zahnmed** 1990;100(7):841–6 (Eng. Abstr.) **(Ger)**

[Caries prevalence in Zurich schoolchildren in 1970, 1983 and 1988] Steiner M, et al. **Schweiz Monatsschr Zahnmed** 1990;100(1):38–41 (Eng. Abstr.) **(Ger)**

[The caries incidence in schoolchildren in the Canton of Glarus 13 years after the introduction of highly fluoridated salt] Steiner M, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(8):897–901 (Eng. Abstr.) **(Ger)**

[Is there a connection between coronal and root caries involvement?] Heinrich R, et al. **Zahn Mund Kieferheilkd** 1989;77(8):771–4 (Eng. Abstr.) **(Ger)**

[Will root caries become a treatment problem of the future?] Heinrich R, et al. **Zahn Mund Kieferheilkd** 1990;78(3):253–7 (Eng. Abstr.) **(Ger)**

[Caries, gingivitis and periodontitis in 12- to 14-year olds under conditions of sugar restriction—research on type-1 diabetics] Poppe B, et al. **Zahn Mund Kieferheilkd** 1989; 77(7):674–9 (Eng. Abstr.) **(Ger)**

[Results of the caries prevention program in Gdöllö. I. Cariologic studies] Makra C. **Fogorv Sz** 1990 Mar; 83(3):77–81 (Eng. Abstr.) **(Hun)**

[Results of the caries prevention program in Gödöllö. II. Periodontal studies] Makra C. **Fogorv Sz** 1990 Mar; 83(3):83–5 (Eng. Abstr.) **(Hun)**

[Longitudinal study of the dental status of pregnant women under prenatal care] Papp E, et al. **Fogorv Sz** 1990 Jul; 83(7):199–204 (Eng. Abstr.) **(Hun)**

[Results of the caries prevention program in Gödöllö. III. Orthodontic studies] Trócsányi K. **Fogorv Sz** 1990 Mar; 83(3):87–9 (Eng. Abstr.) **(Hun)**

[Clinical study on the prevalence of dental caries in patients with juvenile diabetes mellitus] Piattelli A, et al. **Minerva Stomatol** 1989 Nov;38(11):1227–30 (Eng. Abstr.) **(Ita)**

[The incidence of dental caries in the school population of the Province of Trieste] Sticco E, et al. **Minerva Stomatol** 1989 Sep;38(9):1029–33 (Eng. Abstr.) **(Ita)**

[The prevalence and severity of dental caries among the population of Derbent] Bakhmudov BR. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):66–8 **(Rus)**

[The level of consumption of sweets by the population and dental caries] Redinova TL, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):66–8 (Eng. Abstr.) **(Rus)**

[Relation of the course of dental caries in schoolchildren to a series of risk factors] Rudenko MM. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):64–6 (Eng. Abstr.) **(Rus)**

[The prevalence and intensity of dental caries and periodontal diseases among Tbilisi schoolchildren] Shishinashvili TE. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):73 **(Rus)**

[Trends in the prevalence and intensity of dental caries among the population of the Ukrainian SSR] Skliar VE, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):68–70 **(Rus)**

[Dental caries in preschoolers living in a rural locality] Smoliar NI, et al. **Stomatologiia (Mosk)** 1990 Mar-Apr; 69(2):58–9 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Sugar consumption and caries experience in 12- and 13-year-old Icelandic children. Bjarnason S, et al. **Acta Odontol Scand** 1989 Oct;47(5):315-21

The effect of chronic propranolol treatment on salivary composition and caries in the rat. Watson GE, et al. **Arch Oral Biol** 1990;35(6):435-41

Dental findings of children with biliary atresia: report of seven cases. Morisaki I, et al. **ASDC J Dent Child** 1990 May-Jun;57(3):220-3

Sugars and caries link [editorial] **Br Dent J** 1990 Jan 20; 168(2):45

'Dietary sugars and human disease': conclusions and recommendations. **Br Dent J** 1990 Jan 20;168(2):46

Methodone and caries [letter] [see comments] Bigwood CS, et al. **Br Dent J** 1990 Mar 24;168(6):231 Comment in: Br Dent J 1990 May 5;168(9):349.

Snack foods and dental caries. Investigations using laboratory animals. Grenby TH. **Br Dent J** 1990 May 5;168(9):353-61

'Methadone and caries' [letter] Hutchinson S. **Br Dent J** 1990 Jun 9;168(11):430

Methadone and caries' [letter; comment] Lewis DA. **Br Dent J** 1990 May 5;168(9):349 Comment on: Br Dent J 1990 Mar 24;168(6):231.

'Well hidden sugar' [letter; comment] Mellor A. **Br Dent J** 1990 Jan 6;168(1):5 Comment on: Br Dent J 1989 Nov 11;167(9):303.

Well hidden sugar' [letter; comment] Mian I. **Br Dent J** 1989 Dec 9-23;167(11):369 Comment on: Br Dent J 1989 Nov 11;167(9):303.

Well hidden sugar [letter] [see comments] Sharp JF. **Br Dent J** 1989 Nov 11;167(9):303 Comment in: Br Dent J 1989 Dec 9-23;167(11):369. Comment in: Br Dent J 1990 Jan 6;168(1):5.

Diet and dental caries. Burgess RC, et al. **Can Dent Assoc J** 1989 Sep;55(9):699-702 (54 ref.)

The other side of confection use and dental caries. Kleinberg I. **Can Dent Assoc J** 1989 Oct;55(10):837-8 (16 ref.)

Cariological studies of individuals with long-term sorbitol consumption. Birkhed D, et al. **Caries Res** 1990;24(3):220-3

Action of fluoride on initiation of early root surface caries in vivo. Ogaard B, et al. **Caries Res** 1990;24(2):142-4

Severity of nursing-bottle syndrome and feeding patterns in Kuwait. Babeely K, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):237-9

Factors influencing the caries experience of a group of children at the ages of 11-12 and 15-16 years: results from an ongoing epidemiological survey. Dummer PM, et al. **J Dent** 1990 Feb;18(1):37-48

The effect of sugar cane chewing on the development of dental caries. Frencken JE, et al. **J Dent Res** 1989 Jun; 68(6):1102-4

Acute dental caries, mental stress, immunity and the active passage of ions through the teeth. Sutton PR. **Med Hypotheses** 1990 Jan;31(1):17

Dental aspects of anorexia and bulimia nervosa. Roberts MW, et al. **Pediatrician** 1989;16(3-4):178-84 (65 ref.)

The role of medications in dental caries formation: need for sugar-free medication for children. Shaw L, et al. **Pediatrician** 1989;16(3-4):153-5 (14 ref.)

[Study of the etiologic factors of bucco-dental pathology in handicapped children and adolescents] Doury J, et al. **Pediatrie** 1990;45(5):339-42 (Eng. Abstr.) (Fre)

[Carotene jaundice in infants with "sugar nursing bottle syndrome"] Wetzel WE, et al. **Monatsschr Kinderheilkd** 1989 Oct;137(10):659-61 (11 ref.) (Eng. Abstr.) (Ger)

[The development of initial enamel caries--a phenomenon of interfacial reactions] Rentsch H, et al. **Zahn Mund Kieferheilkd** 1990;78(3):217-21 (Eng. Abstr.) (Ger)

[Root caries--a rat model] Stösser L, et al. **Zahn Mund Kieferheilkd** 1989;77(7):655-8 (Eng. Abstr.) (Ger)

[Root caries. Review of the literature] Takáts R, et al. **Fogorv Sz** 1988 Jul;81(7):203-8 (40 ref.) (Eng. Abstr.) (Hun)

[The role of Streptococcus mutans in human caries] Mosci F, et al. **Minerva Stomatol** 1990 May;39(5):413-29 (173 ref.) (Eng. Abstr.) (Ita)

[A mathematical model of the development of dental caries] Maksimovskiĭ IuM, et al. **Stomatologiia (Mosk)** 1990 Mar-Apr;69(2):5-9 (Eng. Abstr.) (Rus)

GENETICS

The role of heredity in the oral health of Arctic and subarctic residents. Mayhall JT, et al. **Arctic Med Res** 1988;47 Suppl 1:411-4

[Dental caries in 280 pairs of same-sex twins] Gao XJ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan; 25(1):18-20, 61 (Eng. Abstr.) (Chi)

[Genetic aspects of the susceptibility for caries and marginal periodontitis] Zuhrt R. **Arztl Jugendkd** 1990;81(2):86-93 (39 ref.) (Eng. Abstr.) (Ger)

HISTORY

Deciduous enamel defects and caries susceptibility in a prehistoric Ohio population. Duray SM. **Am J Phys Anthropol** 1990 Jan;81(1):27-34

Early hominid dental pathology: interproximal caries in 1.5 million-year-old Paranthropus robustus from Swartkrans. Grine FE, et al. **Arch Oral Biol** 1990;35(5):381-6

The prevalence and pattern of distribution of root caries in a Scottish medieval population. Kerr NW. **J Dent Res** 1990 Mar;69(3):857-60

A corner of history. Grand Rapids fluoridation and the prevention of dental caries. Harris RR. **Prev Med** 1989 Jul; 18(4):541-8

IMMUNOLOGY

Serum IgG level against Streptococcus mutans in subjects with caries experience. Natasasmita S, et al. **Bull Tokyo Med Dent Univ** 1989 Sep;36(3):27-33

Caries development in children in relation to the presence of mutans streptococci in dental plaque and of serum antibodies against whole cells and protein antigen I/II of Streptococcus mutans. Tenovuo J, et al. **Caries Res** 1990; 24(1):59-64

[Local immunity in dental caries in children] Kipiani GE. **Stomatologiia (Mosk)** 1989 Sep-Oct;68(5):82-3 (Eng. Abstr.) (Rus)

METABOLISM

Effects of low and high fluoride levels on rat dental caries and simultaneous dentine apposition. Kortelainen S, et al. **Arch Oral Biol** 1990;35(3):229-34

Effects of molybdenum on human enamel fluoride uptake and experimental rat dental caries. Uemura M, et al. **Arch Oral Biol** 1989;34(8):665-8

Effect of fluoride concentration on remineralization of carious enamel: an in vitro pH-cycling study. Damato FA, et al. **Caries Res** 1990;24(3):174-80

Effect of dental plaque age and bacterial composition on the pH of artificial fissures in human volunteers. Igarashi K, et al. **Caries Res** 1990;24(1):52-8

Influence of fluoride on in vitro remineralization of artificial subsurface lesions determined with a sandwich technique. Lammers PC, et al. **Caries Res** 1990;24(2):81-5

Effect of a strontium complex on fluoride uptake by artificial caries lesions and sound enamel in vitro. Mellberg JR, et al. **Caries Res** 1990;24(2):93-6

Fluoride and mineral redeposition in outermost layers of bovine enamel during surface softening. Rentsch H, et al. **Caries Res** 1990;24(2):97-100

Protein and mineral release during in vitro demineralization of bovine dentine. Boonstra WD, et al. **J Biol Buccale** 1990 Mar;18(1):43-8

Calcium and phosphate uptake of human dental enamel treated with sodium bicarbonate. Goldberg M, et al. **J Biol Buccale** 1990 Mar;18(1):55-8

Nature and role of loosely bound fluoride in dental caries. Arends J, et al. **J Dent Res** 1990 Feb;69 Spec No:601-5; discussion 634-6 (42 ref.)

The effects of sucralose on coronal and root-surface caries. Bowen WH, et al. **J Dent Res** 1990 Aug;69(8):1485-7

Tooth-bound fluoride and dental caries. Chow LC. **J Dent Res** 1990 Feb;69 Spec No:595-600; discussion 634-6 (52 ref.)

Release of organic matrix components from bovine incisor roots during in vitro lesion formation. Klont B, et al. **J Dent Res** 1990 Mar;69(3):896-900

Chemical and crystallographic events in the caries process. LeGeros RZ. **J Dent Res** 1990 Feb;69 Spec No:567-74; discussion 634-6 (100 ref.)

In vitro studies on the effects of fluoride on de- and remineralization. Ten Cate JM. **J Dent Res** 1990 Feb;69 Spec No:614-9; discussion 634-6 (71 ref.)

[The relation of caries and fluorides in the saliva and serum in a low fluoride area] Zhang MH. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Nov; 24(6):371-3 (Chi)

[The aciduric properties of Streptococcus mutans] Stösser L, et al. **Zahn Mund Kieferheilkd** 1989;77(6):576-7 (Ger)

[Crystallo-chemical problems of dental enamel and new possibilities of in vitro remineralization] Kiss J, et al. **Fogorv Sz** 1990 Aug;83(8):225-33 (15 ref.) (Eng. Abstr.) (Hun)

[Oral biological modeling of dental caries in rats. 5. Effect of a desalivation procedure on the progression of dental caries] Végh A, et al. **Fogorv Sz** 1988 Feb;81(2):47-55 (Eng. Abstr.) (Hun)

[Zinc and caries] Gomershtein VA, et al. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):52-4 (Eng. Abstr.) (Rus)

[The nature and characteristics of valence fluctuations of the functional groups in the organic structure of normal dentin and in pathology] Grechishnikov VI. **Stomatologiia (Mosk)** 1989 Sep-Oct;68(5):10-3 (Eng. Abstr.) (Rus)

MICROBIOLOGY

In vivo dental plaque-forming ability and cariogenicity of the bacterium Streptococcus bovis in gnotobiotic rats. Willcox MD, et al. **Arch Oral Biol** 1990;35(2):163-6

Comparative cariogenicity and dental plaque-forming ability in gnotobiotic rats of four species of mutans streptococci. Willcox MD, et al. **Arch Oral Biol** 1989;34(10):825-8

Low-cariogenicity of the tetrasaccharide nystose. Ikeda T, et al. **Gen Pharmacol** 1990;21(2):175-9

Microflora associated with experimental root surface caries in humans. Nyvad B, et al. **Infect Immun** 1990 Jun; 58(6):1628-33

Microbiology of root surface caries in humans. Bowden GH. **J Dent Res** 1990 May;69(5):1205-10 (39 ref.)

The microflora associated with the development of initial enamel decalcification below orthodontic bands in vivo in children living in a fluoridated-water area. Boyar RM, et al. **J Dent Res** 1989 Dec;68(12):1734-8

Caries incidence in intact rats infected with Streptococcus sobrinus via transmission from desalivated cagemates. Madison KM, et al. **J Dent Res** 1990 May;69(5):1154-9

A microbiological study of early caries of approximal surfaces in schoolchildren. Marsh PD, et al. **J Dent Res** 1989 Jul;68(7):1151-4

An ultrastructural study of bacterial invasion and tissue breakdown in human experimental root-surface caries. Nyvad B, et al. **J Dent Res** 1990 May;69(5):1118-25

Association of the microbial flora of dental plaque and saliva with human root-surface caries. Van Houte J, et al. **J Dent Res** 1990 Aug;69(8):1463-8

Caries on root surfaces exposed following gingivectomy in conventional rats infected with Streptococcus sobrinus and Actinomyces viscosus. Firestone AR, et al. **J Periodontol** 1989 Nov;60(11):624-7

Genetic transformation in some cariogenic Streptococcus milleri. Jacob AE, et al. **Microbios** 1989;60(244-245):167-75

Specific microorganisms and dental caries in children. Krasse B. **Pediatrician** 1989;16(3-4):156-60 (18 ref.)

Presence of mutans streptococci and various types of lactobacilli in interdental spaces related to development of proximal carious lesions. Crossner CG, et al. **Scand J Dent Res** 1989 Aug;97(4):307-15

[The microflora of enamel and cemental caries] Liu Z. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Jul; 24(4):215-7 (Chi)

[The correlation between the zinc content of dental plaque and the quantitative behavior of caries-inducing plaque streptococci] Dobel P, et al. **Zahn Mund Kieferheilkd** 1990; 78(1):25-7 (Ger)

[The microbial colonization of the carious root dentin] Kneist S, et al. **Zahn Mund Kieferheilkd** 1990;78(2):135-7 (Ger)

PATHOLOGY

Ultrastructural study on human root caries. Frank RM, et al. **Caries Res** 1989;23(4):209-17

Correlation between physical changes in tooth enamel and changes in iodide penetrability following in vitro or intraoral demineralization. Kashket S, et al. **Caries Res** 1989;23(4):232-7

Microradiography of experimental root surface caries in man. Nyvad B, et al. **Caries Res** 1989;23(4):218-24

Human root caries: histopathology of advanced lesions. Schüpbach P, et al. **Caries Res** 1990;24(3):145-58

Comparison of the iodide permeability test, the surface microhardness test, and mineral dissolution of bovine enamel following acid challenge. Zero DT, et al. **Caries Res** 1990;24(3):181-8

Mineral density and mineral loss after demineralization at various locations in human root dentine. A longitudinal microradiographic study. Zuidgeest TG, et al. **Caries Res** 1990;24(3):159-63

Action of a bacterial Achromobacter collagenase on the soft carious dentine: an in vitro study with the scanning electron microscope. Goldberg M, et al. **J Biol Buccale** 1989 Dec; 17(4):269-74

Simulation of natural enamel caries in vitro with methylcellulose acid gels: effect of addition of calcium and phosphate ions. Kotsanos N, et al. **J Biol Buccale** 1989 Sep;17(3):159-65

Structural events in the caries process in enamel, cementum, and dentin. Frank RM. **J Dent Res** 1990 Feb;69 Spec No:559-66; discussion 634-6 (61 ref.)

Clinical signs of root caries: measurement issues from an epidemiologic perspective. Katz RV. **J Dent Res** 1990 May; 69(5):1211-5

Histopathology of root surface caries. Schüpbach P, et al. **J Dent Res** 1990 May;69(5):1195-204

Optical quantification of caries-like lesions in vitro by use of a fluorescent dye. Van de Rijke JW, et al. **J Dent Res** 1990 May;69(5):1184-7

Fluorescence in the tandem scanning microscope. Boyde A, et al. **J Microsc** 1990 Jan;157 (Pt 1):39-49

Comparison of backscattered scanning electron microscopy and microradiography of secondary caries. Marshall GW Jr, et al. **Scanning Microsc** 1989 Dec;3(4):1043-49; discussion 1049-50

[Observations on human natural dental plaque associated with normal, periodontally diseased and carious teeth by scanning electron microscopy] Chen P. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):292-4, 319 (Eng. Abstr.) (Chi)

[Remineralization of incipient caries studied by high-resolution electron microscopy] Li TX. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):171-2, 191 (Eng. Abstr.) (Chi)

[The character of incipient carious lesions of the enamel surface] Li YJ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan;25(1):35-7 (Chi)

PHYSIOPATHOLOGY

Approximal caries progression in 13- to 15-year-old Danish children. Bille J, et al. **Acta Odontol Scand** 1989 Dec; 47(6):347-54 (22 ref.)

Automatic pH-cycling caries model applied on root hard tissue. Almqvist H, et al. **Caries Res** 1990;24(1):1-5
Effects of surface-active compounds on the demineralization of dental enamel. Borggreven JM, et al. **Caries Res** 1989; 23(4):238-42
Comparison of in vivo human dental plaque pH changes within artificial fissures and at interproximal sites. Igarashi K, et al. **Caries Res** 1989;23(6):417-22
Albumin interaction with caries-like lesions in bovine enamel. van der Linden AH, et al. **Caries Res** 1989;23(6):393-8
Mineral loss during etching of enamel lesions. van Dorp CS, et al. **Caries Res** 1990;24(1):6-10
An electrical method for examining remaining dentine thickness. Yoshida H, et al. **J Dent** 1989 Dec;17(6):284-6
The effect of plaque thickness on progression of artificial caries lesion formation in situ. Mellberg JR, et al. **J Dent Res** 1990 Mar;69(3):865-7
Effects of fluoride on caries development and progression in vivo. Ogaard B. **J Dent Res** 1990 Feb;69 Spec No:813-9; discussion 820-3 (90 ref.)
The effect of chronic atropine treatment on salivary composition and caries in rats. Watson GE, et al. **J Dent Res** 1989 Dec;68(12):1739-45
Effects of chronic stimulation of salivary gland beta-adrenoceptors on saliva composition and caries development in the rat. Ryberg M, et al. **J Oral Pathol Med** 1989 Oct;18(9):529-32
Caries protective aspects of saliva and enamel. Peretz B, et al. **N Y State Dent J** 1990 Jan;56(1):25-7
Influence of glutardialdehyde on dentin demineralization in vitro and in vivo. Arends J, et al. **Scand J Dent Res** 1989 Aug;97(4):297-300

PREVENTION & CONTROL

The effect of stannous and sodium fluoride on coronal caries, root caries and bone loss in rice rats. Beiraghi S, et al. **Arch Oral Biol** 1990;35(1):79-80
A clinical review of preventive resin restorations. Walker JD, et al. **ASDC J Dent Child** 1990 Jul-Aug;57(4):257-9 (10 ref.)
Fluoridation [letter; comment] **Aust Dent J** 1990 Apr; 35(2):187-91 Comment on: Aust Dent J 1989 Dec;34(6):574.
A clinical evaluation of two methods of caries prevention in newly-erupted first permanent molars. Green E. **Aust Dent J** 1989 Oct;34(5):407-9
Characterization of glucan involved in the reduction of dental caries in rats. Takada K, et al. **Biochim Biophys Acta** 1990 Jan 29;1033(1):91-5
'Human plaque pH responses to meals and the effects of chewing gum' [letter; comment] **Br Dent J** 1990 Jan 6; 168(1):5 Comment on: Br Dent J 1989 Sep 23;167(6):204-8.
Chewing gum and dental health--a review. Edgar WM, et al. **Br Dent J** 1990 Feb 24;168(4):173-7
Fluoride supplements [letter] Evans DJ. **Br Dent J** 1989 Oct 7;167(7):225-6
The Capitation Study. 2. Does capitation encourage more prevention? Lennon MA, et al. **Br Dent J** 1990 Mar 10; 168(5):213-5
Preventive dental care for toddlers [letter] Page J. **Br Dent J** 1989 Oct 7;167(7):224
'Fluoride supplements' [letter] Rigby J. **Br Dent J** 1990 Jan 6;168(1):6
Caries prevention with xylitol. Ashpole BR. **Can Dent Assoc J** 1989 Sep;55(9):713-4
Xylitol in chewing gum: a discussion on developing CDA guidelines for the recognition of food products with dental therapeutic claims. Limeback H, et al. **Can Dent Assoc J** 1989 Sep;55(9):717-9 (30 ref.)
Effect of an antimicrobial-containing varnish on root demineralisation in situ. Huizinga ED, et al. **Caries Res** 1990;24(2):130-2
Caries-preventive effect of fluoride dentifrices with and without anticalculus agents: a 3-year controlled clinical trial. Koch G, et al. **Caries Res** 1990;24(1):72-9
The relative cost effectiveness of water fluoridation across communities: analysis of variations according to underlying caries levels. Birch S. **Community Dent Health** 1990 Mar; 7(1):3-10
A study of mothers' attitudes towards the prevention of caries with particular reference to fluoridation and vaccination. Kay EJ, et al. **Community Dent Health** 1989 Dec; 6(4):357-63
Influence of increased toothbrushing frequency on dental health in low, optimal, and high fluoride areas in Finland. Ainamo J, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):296-9
A case study in contesting the conventional wisdom: school-based fluoride mouthrinse programs in the USA. Disney JA, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):46-54 (62 ref.)
Effect of a nutrition education program, "learning by teaching", on adolescents' knowledge and beliefs. Hölund U. **Community Dent Oral Epidemiol** 1990 Apr;18(2):61-5
Evaluation of a routine for prevention and treatment of fissure caries in permanent first molars. Raadal M, et al. **Community Dent Oral Epidemiol** 1990 Apr;18(2):70-3
Xylitol for prevention of dental caries. Lee B, et al. **DICP** 1989 Sep;23(9):691-2
The use of 'Fluor Protector', a fluoride varnish, as a caries prevention method under orthodontic molar bands. Adriaens ML, et al. **Eur J Orthod** 1990 Aug;12(3):316-9
Caries prevention--a survey of parental views. Kay EJ, et al. **Health Bull (Edinb)** 1989 Mar;47(2):88-91
Effects of decisional control and work orientation on persistence in preventive health behavior. Burleson JA, et al. **Health Psychol** 1990;9(1):1-17
Dietary fluoride supplements for Indiana's children: the role of the physician. Hazelrigg CO, et al. **Indiana Med** 1989 Nov;82(11):882-5
An investigation into the mechanism of protection by local passive immunization with monoclonal antibodies against Streptococcus mutans. Ma JK, et al. **Infect Immun** 1990 Oct;58(10):3407-14
Teeth for life: oral disease prevention in research and practice. Löe H. **Int Dent J** 1990 Apr;40(2):74-8
Clinical trial of a low-fluoride toothpaste for young children. Winter GB, et al. **Int Dent J** 1989 Dec;39(4):227-35
Fluorides. Städtler P. **Int J Clin Pharmacol Ther Toxicol** 1990 Jan;28(1):20-6 (31 ref.)
A fluoride analysis program to reduce tooth decay in rural children. Nichols WA. **J Arkansas Med Soc** 1989 Dec; 86(7):273-4
Retention and maintenance of fissure sealants over 10 years. Romcke RG, et al. **J Can Dent Assoc** 1990 Mar;56(3):235-7
A comparison of the influence of lanthanum and fluoride on de- and remineralization of bovine enamel in vitro. Collys K, et al. **J Dent Res** 1990 Feb;69(2):458-62
Fluoride in caries prevention: is the effect pre- or post-eruptive? Groeneveld A, et al. **J Dent Res** 1990 Feb; 69 Spec No:751-5; discussion 820-3 (30 ref.)
Remineralization of artificial caries-like lesions in human enamel in situ by chewing sorbitol gum. Leach SA, et al. **J Dent Res** 1989 Jun;68(6):1064-8
Relative cariostatic effects of KOH-soluble and KOH-insoluble fluoride in situ. Ogaard B, et al. **J Dent Res** 1990 Aug;69(8):1505-7
Critical evaluation of the composition and use of topical fluorides, with emphasis on the role of calcium fluoride in caries inhibition. Rølla G, et al. **J Dent Res** 1990 Feb; 69 Spec No:780-5; discussion 820-3 (44 ref.)
In vitro caries-inhibitory properties of a silver cermet. Swift EJ Jr. **J Dent Res** 1989 Jun;68(6):1088-93
Clinical evidence of the role of pre-eruptive fluoride in caries prevention. Thylstrup A. **J Dent Res** 1990 Feb;69 Spec No:742-50; discussion 820-3 (122 ref.)
The antimicrobial action of fluoride and its role in caries inhibition. Van Loveren C. **J Dent Res** 1990 Feb;69 Spec No:676-81; discussion 682-3 (67 ref.)
Effects of fluoride on caries development and progression using intra-oral models. Wefel JS. **J Dent Res** 1990 Feb; 69 Spec No:626-33; discussion 634-6 (63 ref.)
Physical and chemical considerations of the role of firmly and loosely bound fluoride in caries prevention. White DJ, et al. **J Dent Res** 1990 Feb;69 Spec No:587-94; discussion 634-6 (94 ref.)
In vitro acid decalcification of human surface enamel pretreated with toothpaste slurries. Tadmor E, et al. **J Oral Rehabil** 1989 Nov;16(6):613-6
Evaluation of the comparative effectiveness of fluoride mouthrinsing, fluoride tablets, and both procedures in combination: interim findings after five years. Driscoll WS, et al. **J Public Health Dent** 1990 Winter;50(1):13-7
Effectiveness of school water fluoridation and dietary fluoride supplements in school-aged children. Horowitz HS. **J Public Health Dent** 1989;49(5 Spec No):290-6 (36 ref.)
An evaluation of the Saskatchewan pit and fissure sealant program: a longitudinal followup. Ismail AI, et al. **J Public Health Dent** 1989 Fall;49(4):206-11
Effectiveness of mouthrinsing with fluoride solutions in preventing coronal and root caries. Leverett DH. **J Public Health Dent** 1989;49(5 Spec No):310-6 (54 ref.)
Effectiveness of water fluoridation. Newbrun E. **J Public Health Dent** 1989;49(5 Spec No):279-89 (72 ref.)
Review of the anticaries effectiveness of professionally applied and self-applied topical fluoride gels. Ripa LW. **J Public Health Dent** 1989;49(5 Spec No):297-309 (70 ref.)
School-based preventive regimens and oral health knowledge and practices of sixth graders. Russell BA, et al. **J Public Health Dent** 1989 Fall;49(4):192-200
The effectiveness of pit and fissure sealants. Weintraub JA. **J Public Health Dent** 1989;49(5 Spec No):317-30 (93 ref.)
Preventive dentistry. I. Dental caries. Greene JC, et al. **JAMA** 1989 Dec 22-29;262(24):3459-63 (56 ref.)
CDC expands dental disease prevention role [news] Skolnick A. **JAMA** 1990 May 16;263(19):2609
The role of magnesium in the aetiology and prevention of caries: some new findings and implications. Luoma H. **Magnes Res** 1988 Dec;1(3-4):223-30 (55 ref.)
Sugar consumption in Israel Defence Forces personnel [letter] Katy J, et al. **Milit Med** 1989 Nov;154(11):582-3
Fluoride and dental caries [letter] **N Z Dent J** 1989 Oct; 85(382):129-31
Identification and preventive care of high caries-risk children: a longitudinal study. de Liefde B. **N Z Dent J** 1989 Oct;85(382):112-6
Fluoridation and dental caries [letter] Colquhoun J. **N Z Med J** 1990 Aug 22;103(896):408-9
Dietary fluoride supplements for Ohio children--the role of the physician. Kuthy RA, et al. **Ohio Med** 1990 Aug; 86(8):613-5
Chlorhexidine rinse in prevention of dental caries in patients following radiation therapy. Epstein JB, et al. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4):401-5
Risks and benefits of fluoride mouthrinsing. Adair SM. **Pediatrician** 1989;16(3-4):161-9 (63 ref.)
The prevention of dental disease in pre-school children. Thomas M. **Practitioner** 1990 Apr 22;234(1487):423-6
Preventing baby bottle tooth decay in American Indian and Alaska native communities: a model for planning. Bruerd B, et al. **Public Health Rep** 1989 Nov-Dec;104(6):631-40
Prevention of enamel demineralization adjacent to glass ionomer filling materials. Forss H, et al. **Scand J Dent Res** 1990 Apr;98(2):173-8
Effect of different carriers preventive measures in children highly infected with mutans streptococci. Lindquist B, et al. **Scand J Dent Res** 1989 Aug;97(4):330-7
Caries preventive effect of fluoride varnish applications performed two or four times a year. Seppä L, et al. **Scand J Dent Res** 1990 Apr;98(2):102-5
[Caries inhibiting effect of ammonium fluoride varnish in vitro] Shi ST. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Nov;24(6):353-5, 386 (Eng. Abstr.) **(Chi)**
[Effects of stopping water fluoridation on prevalence of dental caries in children] Gu XS, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Nov; 23(6):346-8 (Eng. Abstr.) **(Chi)**
[Changes in the use of biologically effective fluorides and the consequences] Valach R, et al. **Cas Lek Cesk** 1990 Jun 22;129(25):769-77 (37 ref.) (Eng. Abstr.) **(Cze)**
[Prevention of tooth decay with fluoride] Sícha V. **Cesk Pediatr** 1990 Jan;45(1):42-3 **(Cze)**
[Anticaries vaccine: myth or reality?] Ackermans F. **Rev Belge Med Dent** 1989;44(1):9-24 (73 ref.) (Eng. Abstr.) **(Fre)**
[Criteria for a judicious indication for the application of pit and fissure sealants] Martens L, et al. **Rev Belge Med Dent** 1989;44(3):26-38 (40 ref.) (Eng. Abstr.) **(Fre)**
[The Deinze pilot project for caries prevention, 1981-1988] Vanobbergen J. **Rev Belge Med Dent** 1989;44(1):47-67 (Eng. Abstr.) **(Fre)**
[The lacto-tampon concept. Determination and prevention of an increased risk for caries] Wikner S. **Rev Belge Med Dent** 1989;44(1):37-45 (Eng. Abstr.) **(Fre)**
[Stomatological component of the integrated program for the prevention of non-infectious chronic diseases in the Latvian S.S.R. 2. Experience in the application of preventive measures against dental caries and periodontal diseases in children of the Latvian S.S.R.] Kanep VV, et al. **Sante Publique (Bucur)** 1989 Jul-Sep;32(3):279-86 (Eng. Abstr.) **(Fre)**
[Stomatological component in the integrated program of prevention of non-infectious chronic diseases in the Latvian S.S.R. 3. Elaboration of the primary prevention program for essential stomatological diseases] Kanep VV, et al. **Sante Publique (Bucur)** 1989 Oct-Dec;32(4):369-74 (Eng. Abstr.) **(Fre)**
[Caries prevention with fluorides in difficulty?] Marthaler TM. **Schweiz Monatsschr Zahnmed** 1990;100(8):1001-2, 1011-3 **(Fre, Ger)**
[Sugar substitutes--their significance in preventing dental caries] Römer F. **Off Gesundheitswes** 1989 Aug-Sep; 51(8-9):571-6 (Eng. Abstr.) **(Ger)**
[Preventive dentistry program. Practical preventive dentistry: 15-year experience in Sweden] Axelsson P. **Schweiz Monatsschr Zahnmed** 1989;99(9):1045-51 **(Ger, Fre)**
[The prevention of fissure caries. A practical concept for the prophylaxis of fissure caries] Lutz F, et al. **Schweiz Monatsschr Zahnmed** 1990;100(4):446-56 **(Ger, Fre)**
[The role of fluorides in the prevention of dental caries. Budapest, 29 September 1989] **Fogorv Sz** 1990 Jun; 83(6):161-84 **(Hun)**
[The role of topical fluorides in the prevention of dental caries] Czukor J. **Fogorv Sz** 1990 Jun;83(6):173-4 (Eng. Abstr.) **(Hun)**
[The task of primary care pediatricians in caries prevention by fluorides] Kassai P. **Fogorv Sz** 1990 Jun;83(6):175-8 (Eng. Abstr.) **(Hun)**
[3 years' results of the WHO xylitol caries-preventing program in Hungarian children's homes. VI. Changes in the carbohydrate-protein ratio in dental plaque] Kertész P, et al. **Fogorv Sz** 1988 Feb;81(2):33-7 (Eng. Abstr.) **(Hun)**
[The role of fluorides in the prevention of dental caries] Tóth K. **Fogorv Sz** 1990 Jun;83(6):163-7 (Eng. Abstr.) **(Hun)**
[Nutritional hygiene in the prevention of dental decay: thoughts about weight gain in children in elementary schools] Sebastiani Annicchiarico L, et al. **Ann Ig** 1989 May-Aug;1(3-4):447-58 (Eng. Abstr.) **(Ita)**
[Current and future prospects concerning the prevention of dental caries] Simonetti D'Arca A, et al. **Ann Ig** 1989 Jan-Apr;1(1-2):17-44 (111 ref.) (Eng. Abstr.) **(Ita)**
[Ionofluor + laser = prevention] Fagnoni V, et al. **Minerva Stomatol** 1989 Jul;38(7):769-72 (Eng. Abstr.) **(Ita)**
[Resin and glass-ionomer sealants. Indications, mechanism of action, and application technics] Rengo R, et al. **Minerva Stomatol** 1989 Jul;38(7):743-52 (30 ref.) (Eng. Abstr.) **(Ita)**
[Experimental study of the effect of fluoridation of drinking water with different degree of mineralization on the intensity of dental caries and the status of periodontal

tissues] Skliar VE, et al. **Gig Sanit** 1989 Nov;(11):82–3 **(Rus)**

[The status of the oral cavity and results of the use of fluorine-containing preparations in preventing dental caries in children] Ivanova EN, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):69–70 (Eng. Abstr.) **(Rus)**

[The comparative efficacy of local anticaries agents] Ivanova EN. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):60–1 (Eng. Abstr.) **(Rus)**

[The use of fluorine-containing coatings for isolating fissures of the molars and premolars to prevent caries] Maksimovskiĭ IuM, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):14–5 (Eng. Abstr.) **(Rus)**

[A vaccine against dental caries] Ovrutskiĭ GD. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):86–8 (43 ref.) **(Rus)**

[Microcrystallization of the saliva in children following carbohydrate intake and the performance of caries prophylactic measures] Redinova TL. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):62–3 (Eng. Abstr.) **(Rus)**

[The effect of helium-neon laser light on the degree of dental caries in children on a outpatient register] Sluzhaev IF, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):58–60 (Eng. Abstr.) **(Rus)**

[The effectiveness of caries prevention with fluorine during an unfavorable course of pregnancy] Tumshevits ON, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):4–6 (Eng. Abstr.) **(Rus)**

[The prevention of dental caries during adolescent orthodontic treatment] Vodolatskiĭ MP, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):63–6 (Eng. Abstr.) **(Rus)**

[The problem of dental caries in children: prevention using a weekly mouthwash of sodium fluoride] Abellá AM, et al. **An Esp Pediatr** 1989 Sep;31(3):256–60 **(Spa)**

[Evaluation of a program for the prevention of dental caries in the school environment] Ballestín M, et al. **Rev Sanid Hig Publica (Madr)** 1989 Jan–Feb;63(1–2):71–9 (Eng. Abstr.) **(Spa)**

[Education for dental health in pregnancy] Díaz-Romero RM, et al. **Salud Publica Mex** 1989 Jul–Aug;31(4):530–5 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Accuracy in radiographic diagnosis: Dutch practitioners and dental caries. Mileman PA, et al. **J Dent** 1990 Jun; 18(3):130–6

Visualization of stannous fluoride treatment of carious lesions by subtraction radiography. Halse A, et al. **Oral Surg Oral Med Oral Pathol** 1990 Mar;69(3):378–81

Assessment of the DMF-S index with the use of bitewing radiographs. Mann J, et al. **Oral Surg Oral Med Oral Pathol** 1989 Nov;68(5):661–5

Dental X-ray status of patients admitted for total hip replacement. Lindqvist C, et al. **Proc Finn Dent Soc** 1989; 85(3):211–5

REHABILITATION

[The border seal in restorations of class-V lesions with glass ionomer cement and composite (the sandwich filling)] Hänggi D, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(1):29–37 (Eng. Abstr.) **(Ger)**

[Fissure sealing. A report on our experience of fissure sealing using Helioseal with a retention time of up to 96 months] Trummler A, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(1):60–5 **(Ger, Fre)**

SURGERY

[The dilemma of the 2d primary molar] Van Vaek I, et al. **Rev Belge Med Dent** 1989;44(3):13–25 (30 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

Three-year study of cervical erosions restored with resin and dentin-bonding agent. Hansen EK. **Acta Odontol Scand** 1989 Oct;47(5):301–6

Treatment selections for fissured grooves of permanent molar teeth. Brownbill JW, et al. **ASDC J Dent Child** 1990 Jul–Aug;57(4):274–8

The use of glass ionomer cements for restoring occlusal tooth surfaces. Smales RJ, et al. **Aust Dent J** 1990 Apr; 35(2):181–2

Management of the small child with gross caries [letter; comment] Webb TC. **Br Dent J** 1989 Aug 19;167(4):122 Comment on: Br Dent J 1989 Jun 24;166(12):436–7.

Authors and correspondent 'missed the central issue' [letter] Stevenson-Moore P. **Can Dent Assoc J** 1989 Dec; 55(12):961

Reversal of fissure caries in the albino rat by stimulating salivary flow with pilocarpine. Leach SA, et al. **Caries Res** 1990;24(2):127–9

Staining of residual caries under freshly-packed amalgam restorations exposed to tea/chlorhexidine in vitro. Kidd EA, et al. **Int Dent J** 1990 Aug;40(4):219–24

Microconservative restorations for approximal carious lesions. Hunt PR. **J Am Dent Assoc** 1990 Jan;120(1):37–40 (31 ref.)

Cermet cements. McLean JW. **J Am Dent Assoc** 1990 Jan; 120(1):43–7 (20 ref.)

Re: 'Comments by Dr. McComb' [letter] Wood RE, et al. **J Can Dent Assoc** 1990 Mar;56(3):197–8

Mechanical vs. disease-oriented treatment of dental caries: educational aspects [editorial] Thylstrup A. **J Dent Res** 1989 Jun;68(6):1135

Changing trends in dental restorative treatment needs of naval recruits 1987–89—disease or diagnosis? Alexander DC, et al. **J R Nav Med Serv** 1989 Summer;75(2):85–91

Microleakage in fissures sealed with resin or glass ionomer cement. Övrebö RC, et al. **Scand J Dent Res** 1990 Feb; 98(1):66–9

[A study and clinical appliance of super-strength composite resins] Yu ZS. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep;24(5):276–9 **(Chi)**

[The effect of the combined prevention of stomatologic diseases on the quality of the treatment of dental caries and the stability of fillings] Ainazarov Kh. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):59–62 (Eng. Abstr.) **(Rus)**

DENTAL CARIES ACTIVITY TESTS

In vivo acid production from medicines in syrup form. Rekola M. **Caries Res** 1989;23(6):412–6

Caries prevalence and microbiological and salivary caries activity tests in Scottish adolescents. Russell JI, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):120–5

METHODS

Results with the caries activity test "Cariostat" compared to prevalence of mutans streptococci and lactobacilli. Camling E, et al. **Swed Dent J** 1989;13(4):125–30

DENTAL CARIES SUSCEPTIBILITY

Physico-chemical characteristics of mucus glycoproteins and lipids of the human oral mucosal mucus coat in relation to caries susceptibility. Slomiany BL, et al. **Arch Oral Biol** 1989;34(4):229–37

Caries predictors suitable for mass-screenings in children: a literature review. Demers M, et al. **Community Dent Health** 1990 Mar;7(1):11–21 (95 ref.)

Posteruptive age dependency of cariogenic changes in enamel of permanent teeth of children. Wöltgens JH, et al. **J Biol Buccale** 1990 Mar;18(1):49–53

Identification and preventive care of high caries-risk children: a longitudinal study. de Liefde B. **N Z Dent J** 1989 Oct;85(382):112–6

[Correlations of caries susceptibility of the deciduous and permanent dentition] Hidasi G. **Fogorv Sz** 1988 Jul; 81(7):201–2 (Eng. Abstr.) **(Hun)**

DRUG EFFECTS

In vivo acid production from medicines in syrup form. Rekola M. **Caries Res** 1989;23(6):412–6

PHYSIOLOGY

Effect of lipids on the lactic acid retardation capacity of tooth enamel and cementum pellicles formed in vitro from saliva of caries-resistant and caries-susceptible human adults. Slomiany BL, et al. **Arch Oral Biol** 1990;35(3):175–80

Comparison of in vivo human dental plaque pH changes within artificial fissures and at interproximal sites. Igarashi K, et al. **Caries Res** 1989;23(6):417–22

DENTAL CASTING INVESTMENT

Effectiveness of a method used in bonding resins to metal. Caeg C, et al. **J Prosthet Dent** 1990 Jul;64(1):37–41

Multidimensional internal setting expansion of a phosphate-bonded casting investment measured with strain gauges. Engler RA, et al. **J Prosthet Dent** 1990 Mar; 63(3):353–8

Altered corrosion resistance from casting to stainless steel posts. Sorensen JA, et al. **J Prosthet Dent** 1990 Jun; 63(6):630–7

Influence of heating rate in thermal expansion of dental phosphate-bonded investment material. Papadopoulos T, et al. **Scand J Dent Res** 1990 Feb;98(1):60–5

Microscopy analysis of dental titanium casting investment materials. Mueller HJ. **Scanning Microsc** 1989 Sep; 3(3):837–41; discussion 841–2

DENTAL CASTING TECHNIC

Discrimination training and formative evaluation for remediation in basic waxing skills. Knight GW, et al. **J Dent Educ** 1990 Mar;54(3):194–8

Effects of the porcelain firing sequence on the bond strengths of cements. Kanoy BE, et al. **J Oral Rehabil** 1989 Jul; 16(4):335–43

Using vinyl polysiloxane in the altered cast procedure for speech-aid prostheses. Gardner LK, et al. **J Prosthet Dent** 1990 Jan;63(1):62–4

A simplified technique for fabricating esthetic cast metal occlusal surfaces for dentures. Krantz WA, et al. **J Prosthet Dent** 1990 Jun;63(6):713–5

Influence of heating rate in thermal expansion of dental phosphate-bonded investment material. Papadopoulos T, et al. **Scand J Dent Res** 1990 Feb;98(1):60–5

Effect of casting atmosphere on the quality of Ti-crowns. Sunnerkrantz PA, et al. **Scand J Dent Res** 1990 Jun; 98(3):268–72

[Extracoronal bonded anchorages. Extracoronal bonded anchorages in cast-molded prosthesis: an esthetic extension of the geriatric denture reconstruction spectrum] Besimo C. **Schweiz Monatsschr Zahnmed** 1989;99(11):1292–304 **(Ger, Fre)**

[The prevention of complications from the use of cast stump pin inserts for the fixation of metal-ceramic dentures] Arutiunov SD. **Stomatologiia (Mosk)** 1989 Jul–Aug; 68(4):48–50 (Eng. Abstr.) **(Rus)**

[Experience in preparing metal-ceramic and unit-cast fixed dentures using a new nickel-chromium alloy] Khokhlov AA, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):50–1 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

Influence of casting procedure on silver-palladium endodontic posts. Stokes AN, et al. **J Dent** 1989 Dec; 17(6):305–7

Dental casting of titanium and Ni-Ti alloys by a new casting machine. Hamanaka H, et al. **J Dent Res** 1989 Nov; 68(11):1529–33

Studies on the castability of Co-Cr alloy for cast plates. Part 2: Effect of form of sprue attachment to the wax pattern. Satoh Y, et al. **J Nihou Univ Sch Dent** 1990 Mar;32(1):27–34

Comparison of conventional paint-on die spacers and those used with the all-ceramic restorations. Campbell SD. **J Prosthet Dent** 1990 Feb;63(2):151–5

Comparison of the effects of three sprue designs on the internal porosity in crowns cast with a silver-free high-palladium alloy. Peregrina A, et al. **J Prosthet Dent** 1990 Aug;64(2):162–6

STATISTICS & NUMERICAL DATA

Comparison of the dimensional stability of two waxes and two acrylic resin processing techniques in the production of complete dentures. Sykora O, et al. **J Oral Rehabil** 1990 May;17(3):219–27

DENTAL CAVITY LINING

see related
CALCIUM HYDROXIDE

Developments in light-cure lining materials. Tyas MJ. **Aust Dent J** 1989 Dec;34(6):578

Microleakage in restorations with glass ionomer liners after thermocycling. Arcoria CJ, et al. **J Dent** 1990 Apr; 18(2):107–12

The surface pH of glass ionomer cavity lining agents [published erratum appears in J Dent 1990 Feb;18(1):48] Woolford MJ. **J Dent** 1989 Dec;17(6):295–300

In vitro marginal microleakage: examination of measurements used in assessment. Youngson CC, et al. **J Dent** 1990 Jun; 18(3):142–6

Complete marginal seal of Class V resin composite restorations effected by increased flexibility. Kemp-Scholte CM, et al. **J Dent Res** 1990 Jun;69(6):1240–3

Leakage of chemical and light-cured basing materials. Chan KC, et al. **J Prosthet Dent** 1989 Oct;62(4):408–11

A lining system for composite resin fillings. Derand T. **J Prosthet Dent** 1990 Feb;63(2):134–7

A medicated polycarboxylate cement to prevent complications in composite resin therapy. Okamoto Y, et al. **J Prosthet Dent** 1990 Jan;63(1):37–40

Evaluation of potassium oxalate as a cavity liner. Sandoval VA, et al. **J Prosthet Dent** 1989 Sep;62(3):283–7

On comparison of cements [letter; comment] Pollack BF. **N Y State Dent J** 1990 May;56(5):8 Comment on: N Y State Dent J 1990 Jan;56(1):19–20.

Aluminum oxalate/glycine solutions as pretreatment in the Gluma bonding system. de Araujo PA, et al. **Scand J Dent Res** 1989 Dec;97(6):552–8

METHODS

Long-term use of dentine adhesive as an interfacial sealer under Class II amalgam restorations. Ben-Amar A, et al. **J Oral Rehabil** 1990 Jan;17(1):37–42

Etched glass ionomer liners: surface properties and interfacial profile with composite resins. Papagiannoulis L, et al. **J Oral Rehabil** 1990 Jan;17(1):25–36

Marginal leakage in class V composite resin restorations with glass ionomer liners in vitro. Mathis RS, et al. **J Prosthet Dent** 1990 May;63(5):522–5

DENTAL CAVITY PREPARATION

'Changing perceptions of the requirements of cavity preparations' [letter] Crawford P. **Br Dent J** 1990 Mar 24; 168(6):231

'Changing perceptions of the requirements of cavity preparations' [letter] [see comments] Crawford P. **Br Dent J** 1990 Feb 24;168(4):138–9 Comment in: Br Dent J 1990 Mar 10;168(5):185–6.

The use of a caries detector dye in cavity preparation. Kidd EA, et al. **Br Dent J** 1989 Aug 19;167(4):132–4

'Changing perceptions of the requirements of cavity preparations' [letter; comment] Roberts JF, et al. **Br Dent J** 1990 Mar 10;168(5):185–6 Comment on: Br Dent J 1990 Feb 24;168(4):138–9.

Measurement of pulp temperature increase to externally

applied heat (argon laser, hot water, drilling). Renneboog-Squilbin C, et al. **J Biol Buccale** 1989 Sep; 17(3):179–86

Production of artificial lesions for teaching cavity preparation in the phantom head. Treasure P. **J Dent Educ** 1990 May; 54(5):291–2

Use of mouthguards during tooth preparation for patients with extreme tooth sensitivity [letter; comment] Albert SB. **J Prosthet Dent** 1989 Oct;62(4):493 Comment on: J Prosthet Dent 1989 Mar;61(3):384–5.

A rationale for management of the dentogingival junction. Schmitt SM, et al. **J Prosthet Dent** 1989 Oct;62(4):381–5

ADVERSE EFFECTS

Responses of pulpal nerves to cavity preparation in rat molars: an immunohistochemical study using neurofilament protein (NFP) antiserum. Sato O. **Arch Histol Cytol** 1989 Oct;52(4):433–46

Demonstration of physiological barrier between pulpal odontoblasts and its perturbation following routine restorative procedures: a horseradish peroxidase tracing study in the rat. Turner DF, et al. **J Dent Res** 1989 Aug; 68(8):1262–8

Particulate inhalation during the removal of amalgam restorations. Nimmo A, et al. **J Prosthet Dent** 1990 Feb; 63(2):228–33

CLASSIFICATION

An evaluation of the radiopacity of composite restorative materials used in Class I and Class II cavities. van Dijken JW, et al. **Acta Odontol Scand** 1989 Dec;47(6):401–7

INSTRUMENTATION

A comparison of two bur designs for preparation of the proximal box of Class II cavities by students. Bloxham GP, et al. **J Dent Educ** 1990 May;54(5):288–90

Using a tooth-reduction guide for modifying natural teeth. Gardner LK, et al. **J Prosthet Dent** 1990 Jun;63(6):637–9

[Development of a measuring device for dental drills] Appel HG, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:244–6 **(Ger)**

[A BF-04 case for portable dental drilling equipment] Kamyshevskaia AD. **Med Tekh** 1989 Sep–Oct;(5):61–3 **(Rus)**

METHODS

Three-year study of cervical erosions restored with resin and dentin-bonding agent. Hansen EK.
Acta Odontol Scand 1989 Oct;47(5):301–6

Human pulp reactions to resin restorations performed with different acid–etch restorative procedures. Qvist V, et al. **Acta Odontol Scand** 1989 Oct;47(5):253–63

Changing perceptions of the requirements of cavity preparations' [letter; comment] Andlaw RJ. **Br Dent J** 1990 Feb 10;168(3):92 Comment on: Br Dent J 1990 Jan 6;168(1):30–2.

Changing perceptions of the requirements of cavity preparations [see comments] Elderton RJ, et al.
Br Dent J 1990 Jan 6;168(1):30–2 Comment in: Br Dent J 1990 Feb 10;168(3):92.

Controversies in posterior composite resin restorations. Wilson EG, et al. **Dent Clin North Am** 1990 Jan;34(1):27–44 (40 ref.)

Microconservative restorations for approximal carious lesions. Hunt PR. **J Am Dent Assoc** 1990 Jan;120(1):37–40 (31 ref.)

Pioneering claim [letter] McCloskey RJ.
J Am Dent Assoc 1990 Mar;120(3):236

The effect of placement technique upon the compressive strength and porosity of a composite resin. Chadwick RG, et al. **J Dent** 1989 Oct;17(5):230–3

Etched glass ionomer liners: surface properties and interfacial profile with composite resins. Papagiannoulis L, et al.
J Oral Rehabil 1990 Jan;17(1):25–36

Systematized procedure of crown preparation. Bass EV, et al. **J Prosthet Dent** 1989 Oct;62(4):400–5

Effects of the temperature of cooling water during high-speed and ultrahigh-speed tooth preparation. Lauer HC, et al. **J Prosthet Dent** 1990 Apr;63(4):407–14

Shoulder preparations for collarless metal ceramic crowns: hand-planning as opposed to rotary instrumentation. Zena RB, et al. **J Prosthet Dent** 1989 Sep;62(3):273–7

The Class II caries lesion. Part 2: Alternative direct cavity preparations. Hunter AR, et al. **N Z Dent J** 1989 Oct; 85(382):116–21 (64 ref.)

Sealing ability of intermediate restorations and cavity design used in endodontics. Barkhordar RA, et al.
Oral Surg Oral Med Oral Pathol 1990 Jan;69(1):99–101

[A study of endodontic therapy with and without enlargement of the root canal space on periapical lesion healing] Guo W.
Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Jul; 24(4):237–9 **(Chi)**

DENTAL CEMENTS

Three-year study of cervical erosions restored with resin and dentin-bonding agent. Hansen EK.
Acta Odontol Scand 1989 Oct;47(5):301–6

Load-deformation characteristics of polycarbonate orthodontic brackets. Dobrin RJ, et al. **Am J Orthod** 1975 Jan;67(1):24–33

An in vitro evaluation of bond strength of three glass ionomer cements. Fajen VB, et al.
Am J Orthod Dentofacial Orthop 1990 Apr;97(4):316–22

Effects of phosphoric acid concentration and etch duration on the shear bond strength of an orthodontic bonding resin to enamel. An in vitro study. Legler LR, et al.
Am J Orthod Dentofacial Orthop 1989 Dec;96(6):485–92

The use of visible light-curing composites in bonding ceramic brackets. Odegaard J, et al.
Am J Orthod Dentofacial Orthop 1990 Mar;97(3):188–93

A clinical trial of an indirect bonding technique with a visible light-cured adhesive. Read MJ, et al.
Am J Orthod Dentofacial Orthop 1990 Sep;98(3):259–62

Thermal debracketing of orthodontic resins. Rueggeberg FA, et al. **Am J Orthod Dentofacial Orthop** 1990 Jul;98(1):56–65

A comparison of glass cermet cement and amalgam restorations in primary molars. Hickel R, et al.
ASDC J Dent Child 1990 May–Jun;57(3):184–8

In vivo fluoride uptake in enamel and dentin from fluoride-containing materials. Skartveit L, et al.
ASDC J Dent Child 1990 Mar–Apr;57(2):97–100

Glass ionomer cements [letter; comment] Arnold J.
Aust Dent J 1990 Apr;35(2):185 Comment on: Aust Dent J 1989 Dec;34(6):559–62.

The influence of mixing ratio on the working time, strength and wear of composites. de Gee AJ, et al. **Aust Dent J** 1989 Oct;34(5):466–9

The use of glass ionomer cements for restoring occlusal tooth surfaces. Smales RJ, et al. **Aust Dent J** 1990 Apr; 35(2):181–2

Acid etching of a glass ionomer cement base: SEM study. Smith ED, et al. **Aust Dent J** 1990 Jun;35(3):236–40

Calcium phosphate cements: action of setting regulators on the properties of the beta-tricalcium phosphate–monocalcium phosphate cements. Mirtchi AA, et al. **Biomaterials** 1989 Nov;10(9):634–8

Adhesion of carboxylate cements to hydroxyapatite. II. Adsorption of aromatic carboxylates. Scott RP, et al.
Biomaterials 1990 Jul;11(5):341–4

Influence of steroid hormones on protein–platelet interaction at the blood–polymer interface. Sharma CP, et al.
Biomaterials 1989 Nov;10(9):609–16

Load deformation behaviour during a diametral test. Tay WM, et al. **Biomaterials** 1990 Jul;11(5):361–6

Fee scales [letter] Jones CS. **Br Dent J** 1989 Oct 21;167(8):266

Mutans streptococci in interproximal plaque from amalgam and glass ionomer restorations. Svanberg M, et al.
Caries Res 1990;24(2):133–6

Studies of chemotactic, chemotactic movement-inhibiting and random movement-inhibiting effects of interleukin-1 alpha and beta, tumour necrosis factors alpha and beta and interferon gamma on human neutrophils in assays using 'sparse-pore' polycarbonate (Nuclepore) membranes in the Boyden chamber. Bignold LP, et al.
Int Arch Allergy Appl Immunol 1990;91(1):1–7

Using glass ionomers. Council on Dental Materials, Instruments, and Equipment. **J Am Dent Assoc** 1990 Jul; 121(1):181–8

Glass ionomer as a luting material. Christensen GJ.
J Am Dent Assoc 1990 Jan;120(1):59–62

Glass ionomers for infants, children, and adolescents. Croll TP. **J Am Dent Assoc** 1990 Jan;120(1):65–8

Restoring a tooth with massive internal resorption to form and function: report of case. Herrin HK, et al.
J Am Dent Assoc 1990 Aug;121(2):271–2, 274

Etching times [letter] Hiltunen NS. **J Am Dent Assoc** 1990 Aug;121(2):218

Cermet cements. McLean JW. **J Am Dent Assoc** 1990 Jan; 120(1):43–7 (20 ref.)

Optimal etching time of glass ionomer cement for maximum bond of composite resin. Mangum FI, et al.
J Am Dent Assoc 1990 May;120(5):535–8

Composition and characteristics of glass ionomer cements. Smith DC. **J Am Dent Assoc** 1990 Jan;120(1):20–2 (25 ref.)

Glass ionomer–composite sandwich technique. Suzuki M, et al. **J Am Dent Assoc** 1990 Jan;120(1):55–7

Clinical evaluation of glass ionomer-silver cermet restorations in primary molars: one year results. Hung TW, et al. **J Can Dent Assoc** 1990 Mar;56(3):239–40

Re: 'Comments by Dr. McComb' [letter] Wood RE, et al.
J Can Dent Assoc 1990 Mar;56(3):197–8

Microleakage in restorations with glass ionomer liners after thermocycling. Arcoria CJ, et al. **J Dent** 1990 Apr; 18(2):107–12

Clinical status of dentine bonding agents. Douglas WH.
J Dent 1989 Oct;17(5):209–15 (27 ref.)

The surface pH of glass ionomer cavity lining agents [published erratum appears in J Dent 1990 Feb;18(1):48] Woolford MJ. **J Dent** 1989 Dec;17(6):295–300

The mechanism for erosion of glass-ionomer cements in organic-acid buffer solutions. Fukazawa M, et al.
J Dent Res 1990 May;69(5):1175–9

Shear bond strength of light-cured glass ionomer to enamel and dentin. McCaghren RA, et al. **J Dent Res** 1990 Jan; 69(1):40–5

Maximum bond strength of dental luting cement to amalgam alloy. Mojon P, et al. **J Dent Res** 1989 Nov;68(11):1545–9

Amine-induced polymerization of aqueous HEMA/aldehyde during action as a dentin bonding agent. Munksgaard EC.
J Dent Res 1990 Jun;69(6):1236–9

Effect of etching glass-ionomer cements on bond strength to composite resin. Sheth JJ, et al. **J Dent Res** 1989 Jun; 68(6):1082–7

Mutans streptococci in plaque from margins of amalgam, composite, and glass-ionomer restorations. Svanberg M, et al. **J Dent Res** 1990 Mar;69(3):861–4

A confocal microscopic study of some factors affecting the adaptation of a light-cured glass ionomer to tooth tissue. Watson TF. **J Dent Res** 1990 Aug;69(8):1531–8

A confocal optical microscope study of the morphology of the tooth/restoration interface using Scotchbond 2 dentin adhesive. Watson TF. **J Dent Res** 1989 Jun;68(6):1124–31

Polycarbonate membranes: a novel surface for solid-phase determinations with utility in field format serological assays. Penney CL, et al. **J Immunol Methods** 1989 Oct 24;123(2):185–92

Long-term use of dentine adhesive as an interfacial sealer under Class II amalgam restorations. Ben-Amar A, et al.
J Oral Rehabil 1990 Jan;17(1):37–42

Effect of substrate age on microleakage of dentine adhesive agents. Crim GA. **J Oral Rehabil** 1989 Nov;16(6):555–7

Effects of the porcelain firing sequence on the bond strengths of cements. Kanoy BE, et al. **J Oral Rehabil** 1989 Jul; 16(4):335–43

An evaluation of a rapid setting glass ionomer cement used by general dental practitioners to restore deciduous teeth. Knibbs PJ, et al. **J Oral Rehabil** 1990 Jan;17(1):1–7

Conditioning of root canals prior to dowel cementation with composite luting cement and two dentine adhesive systems. Liberman R, et al. **J Oral Rehabil** 1989 Nov;16(6):597–602

Etched glass ionomer liners: surface properties and interfacial profile with composite resins. Papagiannoulis L, et al.
J Oral Rehabil 1990 Jan;17(1):25–36

The radiopacity of glass ionomer dental materials. Williams JA, et al. **J Oral Rehabil** 1990 May;17(3):245–8

Bond strengths of three chemical adhesive cements adhered to a nickel–chromium alloy for direct bonded retainers. Atta MO, et al. **J Prosthet Dent** 1990 Feb;63(2):137–43

Influence of ceramic thickness on the polymerization of light-cured resin cement. Blackman R, et al.
J Prosthet Dent 1990 Mar;63(3):295–300

Repair of glass ionomer restorative materials: flexure strength of specimens repaired by two methods. Brackett WW, et al. **J Prosthet Dent** 1989 Sep;62(3):261–4

Leakage of chemical and light-cured basing materials. Chan KC, et al. **J Prosthet Dent** 1989 Oct;62(4):408–11

Bond durability between dentinal bonding agents and tooth structure. Davis EL, et al. **J Prosthet Dent** 1989 Sep; 62(3):253–6

Correlation between air-drying duration and bond strength of composite resins to teeth. Ichiki K, et al.
J Prosthet Dent 1990 May;63(5):525–9

Glass-ionomer cement film thickness and working time. Kyrios DM, et al. **J Prosthet Dent** 1989 Nov;62(5):533–6

Load transfer of posts and cores to roots through cements. Leary JM, et al. **J Prosthet Dent** 1989 Sep;62(3):298–302

Marginal leakage in class V composite resin restorations with glass ionomer liners in vitro. Mathis RS, et al.
J Prosthet Dent 1990 May;63(5):522–5

Comparative study of luting agents with composite resin cores. Moody CR, et al. **J Prosthet Dent** 1989 Nov; 62(5):527–9

Bond strengths of luting cements to potassium oxalate-treated dentin. Richardson DW, et al. **J Prosthet Dent** 1990 Apr; 63(4):418–22

Clinical evaluation of two posterior composite resins retained with bonding agents. Shintani H, et al. **J Prosthet Dent** 1989 Dec;62(6):627–32

Wear of materials used in dentistry: a review of the literature. Sulong MZ, et al. **J Prosthet Dent** 1990 Mar;63(3):342–9 (90 ref.)

On comparison of cements [letter; comment] Pollack BF. **N Y State Dent J** 1990 May;56(5):8 Comment on: N Y State Dent J 1990 Jan;56(1):19–20.

Reinforced glass ionomer cement vs. zinc phosphate cement. An interface study [see comments] Scherer W, et al.
N Y State Dent J 1990 Jan;56(1):19–20 Comment in: N Y State Dent J 1990 May;56(5):8.

Aluminum oxalate/glycine solutions as pretreatment in the Gluma bonding system. de Araujo PA, et al.
Scand J Dent Res 1989 Dec;97(6):552–8

Prevention of enamel demineralization adjacent to glass ionomer filling materials. Forss H, et al.
Scand J Dent Res 1990 Apr;98(2):173–8

Glass ionomers in proximal cavities of primary molars. Forsten L, et al. **Scand J Dent Res** 1990 Feb;98(1):70–3

Short- and long-term fluoride release from glass ionomers and other fluoride-containing filling materials in vitro. Forsten L. **Scand J Dent Res** 1990 Apr;98(2):179–85

Strength of bond with Comspan Opaque to three silicoated alloys and titanium. Hansson O. **Scand J Dent Res** 1990 Jun;98(3):248–56

Glass ionomer and resin-based fissure sealants: a clinical study. Mejàre I, et al. **Scand J Dent Res** 1990 Aug; 98(4):345–50

Microleakage in fissures sealed with resin or glass ionomer cement. Övrebö RC, et al. **Scand J Dent Res** 1990 Feb; 98(1):66–9

A 3-year evaluation of Gluma and Gluma/Scotchbond for restoration of cervical erosions. van Dijken JW.
Scand J Dent Res 1990 Aug;98(4):341–4

Microleakage of mixed Class-V restorations placed with GIC-bases or dentin bonding agents. Prati C, et al.

Schweiz Monatsschr Zahnmed 1989;99(10):1117–21
[Effect of the resin system on dentin bond strength] Wang T. Chung Hua Kou Chiang Hsueh Tsa Chih 1990 Jan; 25(1):15–7, 60 (Eng. Abstr.) (Chi)
[A PM visible light-cured dental bonding agent] Xie HM. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Sep; 24(5):283–5, 319 (Eng. Abstr.) (Chi)
[Dental adhesive and sealing products submitted to biological in vivo control] Virgillito A, et al. J Biol Buccale 1989 Sep;17(3):209–24 (65 ref.) (Eng. Abstr.) (Fre)
[Glass ionomer cement as dental filling material] Ferber F, et al. Fogorv Sz 1990 May;83(5):129–32 (30 ref.) (Hun)
[Endocanalar cements. Some in vitro observations on their adhesive properties] Perotti R, et al. Minerva Stomatol 1989 Jul;38(7):757–61 (Eng. Abstr.) (Ita)
[Resin and glass-ionomer sealants. Indications, mechanism of action, and application technics] Rengo R, et al. Minerva Stomatol 1989 Jul;38(7):743–52 (30 ref.) (Eng. Abstr.) (Ita)
[A method for evaluation of compressive ability in mastication by chewing gum containing polycarbonate microcapsules] Numata O. Kokubyo Gakkai Zasshi 1989 Dec;56(4):513–27 (Eng. Abstr.) (Jpn)

ADMINISTRATION & DOSAGE

Microconservative restorations for approximal carious lesions. Hunt PR. J Am Dent Assoc 1990 Jan;120(1):37–40 (31 ref.)
The risk of intentional dissolution of the smear layer after mechanical preparation of root canals. Gutiérrez JH, et al. Oral Surg Oral Med Oral Pathol 1990 Jul;70(1):96–108

ADVERSE EFFECTS

Variations on a theme [letter] Chiaravelli P. J Am Dent Assoc 1990 May;120(5):474

ANALYSIS

Analysis of glass ionomer cement with use of scanning electron microscopy. Swift EJ Jr, et al. J Prosthet Dent 1990 Aug;64(2):167–74 (32 ref.)

PHARMACOLOGY

Pulpal responses to ionomer cements—biological characteristics. Stanley HR. J Am Dent Assoc 1990 Jan; 120(1):25–9 (72 ref.)
In vitro caries-inhibitory properties of a silver cermet. Swift EJ Jr. J Dent Res 1989 Jun;68(6):1088–93
Bacteriostatic effect of tetracycline in a temporary cement. Cohen RB, et al. J Prosthet Dent 1989 Nov;62(5):607–9
A medicated polycarboxylate cement to prevent complications in composite resin therapy. Okamoto Y, et al. J Prosthet Dent 1990 Jan;63(1):37–40
[Glass ionomer cements and dentinal pretreatments: the evaluation of their adhesion to the dentin] Prati C, et al. Minerva Stomatol 1990 Feb;39(2):145–8 (Eng. Abstr.) (Ita)
[Dentinal adhesives and glass ionomer cements: which are the best?] Prati C, et al. Minerva Stomatol 1989 Oct; 38(10):1065–9 (Eng. Abstr.) (Ita)

STANDARDS

A laboratory and clinical evaluation of three dental luting cements. Knibbs PJ, et al. J Oral Rehabil 1989 Sep; 16(5):467–73
Increase in compressive strength of glass ionomer restorative materials with respect to time: a guide to their suitability for use in posterior primary dentition. Williams JA, et al. J Oral Rehabil 1989 Sep;16(5):475–9
Quality evaluation of anterior restorations in private practice. Allander L, et al. Swed Dent J 1989;13(4):141–50

THERAPEUTIC USE

Restorations of eroded areas. Mount GJ. J Am Dent Assoc 1990 Jan;120(1):31–5
Silver-alloy powder and glass ionomer cement. Simmons JJ. J Am Dent Assoc 1990 Jan;120(1):49–52
[The border seal in restorations of class-V lesions with glass ionomer cement and composite (the sandwich filling)] Hänggi D, et al. Schweiz Monatsschr Zahnmed 1990; 100(1):29–37 (Eng. Abstr.) (Ger)

TOXICITY

In vitro cytotoxicity of three dentine bonding agents. Meryon SD, et al. J Dent 1989 Dec;17(6):279–83
Evaluation of mutagenicity of restorative dental materials using the Ames Salmonella/microsome test. Li Y, et al. J Dent Res 1990 May;69(5):1188–92
Glass ionomer and composite resin cements: effects on oral cells. Caughman WF, et al. J Prosthet Dent 1990 May; 63(5):513–21
[Reaction of cells cultured in vitro on 2 self-polymerizing adhesives] Novák L, et al. Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl 1989;32(4):353–63 (Eng. Abstr.) (Cze)

DENTAL CEMENTUM

[Horizontal root fracture repaired by cementum—a case report] Lin KR, et al. Chang Keng I Hsueh 1989 Sep 20; 12(3):183–6 (Eng. Abstr.) (Chi)

ANALYSIS

The distribution and quantitation of cementum-bound lipopolysaccharide on periodontally diseased root surfaces of human teeth. Hughes FJ, et al. Arch Oral Biol 1990; 35(4):295–9
Phosphoprotein extraction from the dentine/cementum complex of human tooth roots. McCurdy SP, et al. Arch Oral Biol 1990;35(5):347–57
Chemical and crystallographic events in the caries process. LeGeros RZ. J Dent Res 1990 Feb;69 Spec No:567–74; discussion 634–6 (100 ref.)
Cementum-like material in a case of Pindborg tumor. el-Labban NG. J Oral Pathol Med 1990 Apr;19(4):166–9
Isolation of a fibroblast attachment protein from cementum. McAllister B, et al. J Periodont Res 1990 Mar;25(2):99–105
Proteoglycans of bovine cementum: isolation and characterization. Bartold PM, et al. Matrix 1990 Mar; 10(1):10–9
[Amount of mineralized tissue removed by root planing] Santarelli G, et al. Minerva Stomatol 1989 Jul;38(7):739–41 (Eng. Abstr.) (Ita)

CYTOLOGY

Ultrastructural changes in rat-molar cementoblasts after administration of puromycin. Sawada T, et al. J Biol Buccale 1989 Sep;17(3):167–77
Fibroblastic cells derived from bovine periodontal ligaments have the phenotypes of osteoblasts. Nojima N, et al. J Periodont Res 1990 May;25(3):179–85
Mineralization of and cementoblast attachment to original and reparative cementum. Philipson S, et al. Scand J Dent Res 1990 Aug;98(4):295–300

INJURIES

Influence of root development and root anatomy on the occurrence of periodontal damage during removal of third molars for transplantation: a histometric study. Schliephake H, et al. J Oral Maxillofac Surg 1990 Jun;48(6):601–5

METABOLISM

Effect of lipids on the lactic acid retardation capacity of tooth enamel and cementum pellicles formed in vitro from saliva of caries-resistant and caries-susceptible human adults. Slomiany BL, et al. Arch Oral Biol 1990;35(3):175–80
Distribution of fluoride across cementum, dentine and alveolar bone in rats. Kato K, et al. Caries Res 1990; 24(2):117–20
Sorption of fibronectin to human root surfaces in vitro. Mendieta C, et al. J Periodontol 1990 May;61(5):254–60

PATHOLOGY

Visual and tactile observational error: comparative probing reliability with recession and cementoenamel junction measurements. Watts TL. Community Dent Oral Epidemiol 1989 Dec;17(6):310–2
Root hard-tissue demineralization rate measured by 125I absorptiometry: comparison with lesion-depth measurements. Almqvist H, et al. J Dent Res 1990 Aug; 69(8):1519–21
Histopathology of root surface caries. Schüpbach P, et al. J Dent Res 1990 May;69(5):1195–204
[Individual age determination using growth rings in the cementum of buried human teeth] Grosskopf B. Z Rechtsmed 1990;103(5):351–9 (Eng. Abstr.) (Ger)

PHYSIOLOGY

Piezoelectricity in cementum, dentine and bone. Marino AA, et al. Arch Oral Biol 1989;34(7):507–9
In-vitro formation of a collagenous matrix upon previously diseased and experimentally treated cemental root surfaces. Bernstein AB, et al. Cell Tissue Res 1990 Mar;259(3):603–6
Human histologic responses to guided tissue regenerative techniques in intrabony lesions. Case reports on 9 sites. Stahl SS, et al. J Clin Periodontol 1990 Mar;17(3):191–8
Possible role of cementoblasts in the resorbant organ of human deciduous teeth during root resorption. Sasaki T, et al. J Periodont Res 1990 May;25(3):143–51

RADIATION EFFECTS

[The effects of the CO2 laser on human dentin and cementum] Piacentini C, et al. Bull Group Int Rech Sci Stomatol Odontol 1989 Dec; 32(3):177–83 (Eng. Abstr.) (Fre)

SURGERY

A quantitative study of cementum removal with hand curettes. Coldiron NB, et al. J Periodontol 1990 May; 61(5):293–9

ULTRASTRUCTURE

Structural events in the caries process in enamel, cementum, and dentin. Frank RM. J Dent Res 1990 Feb;69 Spec No:559–66; discussion 634–6 (61 ref.)
An ultrastructural study of bacterial invasion and tissue breakdown in human experimental root-surface caries. Nyvad B, et al. J Dent Res 1990 May;69(5):1118–25
Initial attachment of principal fibers to the root dentin surface in rat molars. Yamamoto T, et al. J Periodont Res 1990 Mar;25(2):113–9
[Electron microscopic research on the structures of exposed cementum] Koçkapan C. Schweiz Monatsschr Zahnmed 1990;100(6):709–14 (Eng. Abstr.) (Ger)

DENTAL CLINICS

Effect of ionization on microbial air pollution in the dental clinic. Gabbay J, et al. Environ Res 1990 Jun;52(1):99–106
Boston's Dental Clinic Directory, a student health project. Hozid JL, et al. HSMHA Health Rep 1971 Jun;86(6):507–10
A potential for cross-contamination within a dental school environment. Miller RC, et al. J Dent Educ 1990 Feb; 54(2):160–2
Dental materials in Papua New Guinea: a survey of dental clinics. Stewart BL, et al. P N G Med J 1990 Mar; 33(1):29–35
[Clinico-statistical evaluation of oral hygiene in school-age patients with special reference to 1000 cases referred to orthodontic treatment and under observation at the Torino University Dental Clinic] Cumino A, et al. Minerva Stomatol 1989 Sep;38(9):977–9 (Eng. Abstr.) (Ita)
[The use of a jet injector (the BI-8) at the oral medicine office of a district hospital] Gorbatov AV, et al. Stomatologiia (Mosk) 1989 Nov-Dec;68(6):70–1 (Rus)
[Implantation at a district dental polyclinic] Gurfinkel' LN, et al. Stomatologiia (Mosk) 1990 Mar-Apr;69(2):80 (Rus)

ECONOMICS

Effect of financial incentive on productivity in a postgraduate general dentistry program. Jensen OE, et al. J Dent Educ 1990 Apr;54(4):237–9
On Medicaid delivery's "facility fee". Folgert EJ. N Y State Dent J 1990 Jan;56(1):28–9

HISTORY

[20 years' experience in stomato-oncology] Sonkodi I. Fogorv Sz 1989 Dec;82(12):353–5 (Eng. Abstr.) (Hun)

ORGANIZATION & ADMINISTRATION

Recruiting college students as patients via a pre-paid preventive dental health plan. Klinghoffer IP, et al. J Dent Educ 1990 Apr;54(4):253–5
[Medical care in the traumatology office of a dental polyclinic] Shaidullin MS, et al. Voen Med Zh 1990 Mar; (3):39–40 (Rus)

STANDARDS

Hypertension screening in a dental surgery: a Hungarian study. Bandl E, et al. J Hum Hypertens 1990 Jun;4(3):253–7
[The image quality of extraoral x-ray pictures] Langenhan J, et al. Radiol Diagn (Berl) 1990;31(3):273–7 (Eng. Abstr.) (Ger)

UTILIZATION

Using importance-performance analysis to assess patients' decisions to seek care in a dental school clinic. Cunningham MA, et al. J Dent Educ 1989 Oct;53(10):584–6

DENTAL CROWNS see CROWNS

DENTAL DEPOSITS

Variation in human salivary pellicle formation on biomaterials during the day. Morge S, et al. Arch Oral Biol 1989;34(8):669–74

ANALYSIS

Characterization of in vivo salivary-derived enamel pellicle. Al-Hashimi I, et al. Arch Oral Biol 1989;34(4):289–95
Interindividual and longitudinal studies of amino acid composition of pellicle collected in vivo. Rykke M, et al. Scand J Dent Res 1990 Apr;98(2):129–34

DRUG THERAPY

Desorption of acquired enamel pellicle in vivo by pyrophosphate. Rykke M, et al. Scand J Dent Res 1990 Jun;98(3):211–4

METABOLISM

Effect of sodium lauryl sulfate on protein adsorption to hydroxyapatite in vitro and on pellicle formation in vivo. Rykke M, et al. Scand J Dent Res 1990 Apr;98(2):135–43

PATHOLOGY

Morphologic and histochemical characteristics of the dental cuticle in teeth affected by prepubertal periodontitis. López NJ, et al. J Periodontol 1990 Feb;61(2):95–102

ULTRASTRUCTURE

A transmission electron microscopy study of the adsorption patterns of early developing artificial pellicles on human enamel. Busscher HJ, et al. Arch Oral Biol 1989; 34(10):803–10

DENTAL DEVICES, HOME CARE

Water irrigating devices for the orthodontic patient. Attarzadeh F. **Int J Orthod** 1990 Spring-Summer; 28(1–2):17–22 (53 ref.)

Looking behind closed doors. Eames WB. **J Am Dent Assoc** 1990 Jul;121(1):125–7

Why pick on teeth? Mandel ID. **J Am Dent Assoc** 1990 Jul; 121(1):129–32

The effectiveness of 3 types of dental floss for interdental plaque removal. Ong G. **J Clin Periodontol** 1990 Aug;17(7 Pt 1):463–6

Patient preference for waxed or unwaxed dental floss. Beaumont RH. **J Periodontol** 1990 Feb;61(2):123–5

Emergence profiles in natural tooth contour. Part II: Clinical considerations. Croll BM. **J Prosthet Dent** 1990 Apr; 63(4):374–9

DENTAL EDUCATION see **EDUCATION, DENTAL**

DENTAL EDUCATION, CONTINUING see **EDUCATION, DENTAL, CONTINUING**

DENTAL EDUCATION, GRADUATE see **EDUCATION, DENTAL, GRADUATE**

DENTAL ENAMEL

see related
AMELOBLASTS
AMELOGENESIS

Effects of phosphoric acid concentration and etch duration on the shear bond strength of an orthodontic bonding resin to enamel. An in vitro study. Legler LR, et al. **Am J Orthod Dentofacial Orthop** 1989 Dec;96(6):485–92

The hydroxyapatite solubility product of human dental enamel as a function of pH in the range 4.6–7.6 at 20 degrees C. Larsen MJ, et al. **Arch Oral Biol** 1989; 34(12):957–61

Stability and mutual conversion of enamel apatite and brushite at 20 degrees C as a function of pH of the aqueous phase. Larsen MJ, et al. **Arch Oral Biol** 1989;34(12):963–8

Solubility, unit cell dimensions and crystallinity of fluoridated human dental enamel. Larsen MJ, et al. **Arch Oral Biol** 1989;34(12):969–73

Clinical biocompatibility of an experimental dentine–enamel adhesive for composites. Bowen RL, et al. **Int Dent J** 1989 Dec;39(4):247–52

Mechanically–induced generation of radicals in tooth enamel. Desrosiers MF, et al. **Int J Rad Appl Instrum [A]** 1989; 40(10–12):1195–7

Preparation of dental enamel for use in intraoral cariogenicity experiments. Chandler NP. **J Dent** 1990 Feb;18(1):54–8

Fracture–mechanics parameters of the composite–enamel bond. de Groot R, et al. **J Dent Res** 1990 Jan;69(1):31–5

Shear bond strength of light–cured glass ionomer to enamel and dentin. McCaghren RA, et al. **J Dent Res** 1990 Jan; 69(1):40–5

Surface tension and contact angle on enamel of surfactant solutions for caries diagnosis with dyes. Van de Rijke JW, et al. **J Dent Res** 1989 Jul;68(7):1205–9

An in vitro study of the tensile strength of the resin bond between chemically etched non–noble alloy and enamel. Kuyinu E, et al. **J Prosthet Dent** 1990 Mar;63(3):292–5

The effects of rinse volumes and air and water pressures on enamel–composite resin bond strength. Mixson JM, et al. **J Prosthet Dent** 1989 Nov;62(5):522–6

[Bond strength of etched enamel to direct composite resins, to indirect composite resins and to etched and silanized porcelain] Prévost AP, et al. **J Can Dent Assoc** 1990 Jul; 56(7):631–5 (Eng. Abstr.) **(Fre)**

ABNORMALITIES

Enamel defects in a case of Menkes' syndrome. Pallotta R, et al. **Acta Stomatol Belg** 1989 Jun;86(1):33–6

Enamel defects: a developmental marker for hemifacial microsomia. Johnsen DC, et al. **Am J Med Genet** 1990 Aug;36(4):444–8

The prevalence and distribution of enamel defects in 11–12 year old Malaysian schoolchildren. Nik–Hussein NN, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):591–3

Enamel defects in the primary dentition of children born weighing less than 2000 g. Fearne JM, et al. **Br Dent J** 1990 Jun 9;168(11):433–7

Studies on root enamel (2). Enamel pearls. A review of their morphology, localization, nomenclature, occurrence, classification, histogenesis and incidence. Moskow BS, et al. **J Clin Periodontol** 1990 May;17(5):275–81 (71 ref.)

Dental enamel defects in celiac disease. Aine L, et al. **J Oral Pathol Med** 1990 Jul;19(6):241–5

Prevalence of developmental defects of enamel in children and young adults in the Cook Islands. Crooks MC. **N Z Dent J** 1990 Apr;86(384):39–41

ANALYSIS

Changes of acid solubility and fluoride content of the enamel surface in children consuming fluoridated milk. Tóth Z, et al. **Acta Physiol Hung** 1989;74(2):135–40

Zinc and strontium analyses by energy dispersive X–ray fluorescence in human permanent teeth. Frank RM, et al. **Arch Oral Biol** 1989;34(8):593–7

Biochemical characterization of stable high molecular–weight aggregates of amelogenins formed during porcine enamel development. Limeback H, et al. **Arch Oral Biol** 1990;35(6):459–68

Thermal decomposition of developing enamel. Mayer I, et al. **Calcif Tissue Int** 1990 Apr;46(4):254–7

Effect of amine fluoride/stannous fluoride–containing toothpaste and mouthrinsings on dental plaque, gingivitis, plaque and enamel F–accumulation. Bánóczy J, et al. **Caries Res** 1989;23(4):284–8

Fluoride and mineral redeposition in outermost layers of bovine enamel during surface softening. Rentsch H, et al. **Caries Res** 1990;24(2):97–100

Evaluating residence patterns among prehistoric populations: clues from dental enamel composition. Schneider KN, et al. **Hum Biol** 1990 Feb;62(1):71–83

Effect of an acute maternal fluoride dose on fetal plasma fluoride levels and enamel fluoride uptake in guinea pigs. Bawden JW, et al. **J Dent Res** 1989 Jul;68(7):1169–72

Wavelength–independent microradiography: a method for non–destructive quantification of enamel and dentin mineral concentrations using polychromatic x–rays. Herkströter FM, et al. **J Dent Res** 1990 Aug;69(8):1522–6

Chemical and crystallographic events in the caries process. LeGeros RZ. **J Dent Res** 1990 Feb;69 Spec No:567–74; discussion 634–6 (100 ref.)

Iron concentration in teeth of Tetra–odontiform fishes and its phylogenetic significance. Suga S, et al. **J Dent Res** 1989 Jun;68(6):1115–23

X–ray crystallography of incisor enamel from red kangaroo. Sakae T, et al. **J Nihon Univ Sch Dent** 1990 Jun; 32(2):99–103

Chemical and structural challenges in remineralization of dental enamel lesions. Larsen MJ, et al. **Scand J Dent Res** 1989 Aug;97(4):285–96

Fluorine profiles in human enamel after in vitro treatment with dentifrices of different compositions and acidities. Petersson LG, et al. **Swed Dent J** 1989;13(5):177–83 (30 ref.)

[Gradients of inorganic components in enamel and dentin of deciduous teeth. I. Lead concentration in children with variable environmental conditions] Heilmann HH, et al. **Zahn Mund Kieferheilkd** 1989;77(5):452–8 (Eng. Abstr.) **(Ger)**

[Thermo–analytic study of hard tissues in selenium–consuming experimental animals] Tóth P, et al. **Fogorv Sz** 1988 Mar;81(3):79–84 (Eng. Abstr.) **(Hun)**

[The use of an improved method of comparative dispersion of birefringence for research on dental enamel mineralization] Sinitsyn RG, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):9–11 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

Appearance of a labial notch in maxillary incisors: a population survey. Brin I, et al. **Am J Phys Anthropol** 1989 Sep;80(1):25–9

Effects of a low calcium maternal and weaning diet on the thickness and microhardness of rat incisor enamel and dentine. Lozupone E, et al. **Arch Oral Biol** 1989;34(7):491–8

Determination of ultrasonic velocity in human enamel and dentine. Ng SY, et al. **Arch Oral Biol** 1989;34(5):341–5

Studies on root enamel. (I). Some historical notes on cervical enamel projections. Moskow BS, et al. **J Clin Periodontol** 1990 Jan;17(1):29–31

The application of real–time confocal microscopy to the study of high–speed dental–bur–tooth–cutting interactions. Watson TF. **J Microsc** 1990 Jan;157 (Pt 1):51–60

Microhardness of enamel and dentine of cat premolar teeth. Hayashi K, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):1033–5

[Crown wall thickness, external dimensions and solid pulp substance relationships of swine teeth] Klinke G, et al. **Anat Anz** 1990;170(2):137–40 (Eng. Abstr.) **(Ger)**

[Polarization microscopic studies of the dental enamel margin diagonal following the use of various preparation instruments and an etching gel] Böhm B, et al. **Zahn Mund Kieferheilkd** 1989;77(6):537–42 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Effects of phosphoric acid concentration and etch duration on enamel depth of etch: an in vitro study. Legler LR, et al. **Am J Orthod Dentofacial Orthop** 1990 Aug; 98(2):154–60

A photographic study of enamel defects among South Australian school children. Dooland MB, et al. **Aust Dent J** 1989 Oct;34(5):470–3

Intra–oral softening of bovine enamel exposed to Lycasin and sucrose. Chandler NP, et al. **Br Dent J** 1990 Mar 24; 168(6):249–51

The influence of fluoride on in vitro remineralization of bovine enamel. Lammers PC, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(4):199–203

Effects of surface–active compounds on the demineralization of dental enamel. Borggreven JM, et al. **Caries Res** 1989; 23(4):238–42

Mineral loss during etching of enamel lesions. van Dorp CS, et al. **Caries Res** 1990;24(1):6–10

Simulation of natural enamel caries in vitro with methylcellulose acid gels: effect of addition of calcium and phosphate ions. Kotsanos N, et al. **J Biol Buccale** 1989 Sep;17(3):159–65

Effects of fluoride on matrix proteins and their properties in rat secretory enamel. Aoba T, et al. **J Dent Res** 1990 Jun;69(6):1248–55

A comparison of the influence of lanthanum and fluoride on de– and remineralization of bovine enamel in vitro. Collys K, et al. **J Dent Res** 1990 Feb;69(2):458–62

Dependence of in vitro demineralization of apatite and remineralization of dental enamel on fluoride concentration. Featherstone JD, et al. **J Dent Res** 1990 Feb;69 Spec No:620–5; discussion 634–6

The nature and mechanisms of dental fluorosis in man. Fejerskov O, et al. **J Dent Res** 1990 Feb;69 Spec No:692–700; discussion 721 (87 ref.)

Remineralization of artificial caries–like lesions in human enamel in situ by chewing sorbitol gum. Leach SA, et al. **J Dent Res** 1989 Jun;68(6):1064–8

Effects of fluoride on caries development and progression in vivo. Ogaard B. **J Dent Res** 1990 Feb;69 Spec No:813–9; discussion 820–3 (90 ref.)

Relative cariostatic effects of KOH–soluble and KOH–insoluble fluoride in situ. Ogaard B, et al. **J Dent Res** 1990 Aug;69(8):1505–7

The effect of fluoride on the developing mineralized tissues. Robinson C, et al. **J Dent Res** 1990 Feb;69 Spec No:685–91; discussion 721 (73 ref.)

Preliminary surface analysis of etched, bleached, and normal bovine enamel. Ruse ND, et al. **J Dent Res** 1990 Sep; 69(9):1610–3

Interaction of magnesium and fluoride in the rehardening and acid resistance of surface–softened bovine enamel in vitro. Collys K, et al. **Magnes Trace Elem** 1990;9(1):47–53

Tetracycline as a marker in hard tissue research: effects on enamel formation in rat maxillary incisors. Ranggård L. **Scand J Dent Res** 1989 Oct;97(5):381–6

[Effects of proteolytic enzymes on demineralization of enamel] Yue S, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):155–8 (Eng. Abstr.) **(Chi)**

[Surface changes in the dental enamel resulting from acid etching and the bonding and removal of orthodontic fixation devices (based on data from scanning electron microscopy)] Kritskiĭ AV, et al. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):79–81 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Analysis of human enamel genes: insights into genetic disorders of enamel. Lau EC, et al. **Cleft Palate J** 1990 Apr;27(2):121–30 (127 ref.)

[Mineralization and structure of enamel (a study using scanning electron microscopy and X–ray micro–analysis of the lower incisor of the albino rat)] Anastasi G. **Arch Ital Anat Embriol** 1989 Apr–Jun;94(2):97–152 (110 ref.) (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Purification and properties of a protease from developing porcine dental enamel. Carter J, et al. **Arch Oral Biol** 1989; 34(3):195–202

Separation by polyacrylamide gel electrophoresis of multiple proteases in rat and bovine enamel. DenBesten PK, et al. **Arch Oral Biol** 1989;34(6):399–404

The presence and possible functions of the matrix metalloproteinase collagenase activator protein in developing enamel matrix. DenBesten PK, et al. **Biochem J** 1989 Dec 15;264(3):917–20

Presence of alpha–naphthyl acetate esterase enzymes in dental and oral epithelium of guinea pig embryos. Juhl M, et al. **Scand J Dent Res** 1990 Aug;98(4):286–94

GROWTH & DEVELOPMENT

Cell biology of tooth enamel formation. Functional electron microscopic monographs. Sasaki T, et al. **Monogr Oral Sci** 1990;14:1–199 (555 ref.)

INJURIES

Comparisons of different debonding techniques for ceramic brackets: an in vitro study. Part II. Findings and clinical implications. Bishara SE, et al. **Am J Orthod Dentofacial Orthop** 1990 Sep;98(3):263–73

Legal aspects of orthodontic practice: risk management concepts. Ceramic bracket update. Machen DE. **Am J Orthod Dentofacial Orthop** 1990 Aug;98(2):185–6

Clinical report on longitudinal post–eruptive changes in fluorotic enamel observed in 10 cases over a 2 1/2 year period. Ng'ang'a PM, et al. **East Afr Med J** 1990 Jan; 67(1):17–23

METABOLISM

In vitro fluoride uptake by enamel and dentin. A comparative study of two varnishes. Acuna V, et al. **Acta Odontol Scand** 1990 Apr;48(2):89–92

Immunocytochemical localization of enamelin proteins in developing bovine teeth. Herold RC, et al. **Arch Oral Biol** 1990;35(5):373–9

Effects of low and high fluoride levels on rat dental caries and simultaneous dentine apposition. Kortelainen S, et al. **Arch Oral Biol** 1990;35(3):229–34

Cyclical incorporation of 33P into rat incisor enamel in vivo

as visualized by whole-mount radioautography. McKee MD, et al. **Arch Oral Biol** 1989;34(12):989–93
Incorporation of magnesium into rat dental enamel and its influence on crystallization. Spencer P, et al. **Arch Oral Biol** 1989;34(10):767–71
Effects of molybdenum on human enamel fluoride uptake and experimental rat dental caries. Uemura M, et al. **Arch Oral Biol** 1989;34(8):665–8
In vivo fluoride uptake in enamel and dentin from fluoride-containing materials. Skartveit L, et al. **ASDC J Dent Child** 1990 Mar–Apr;57(2):97–100
Laboratory studies of the dental properties of soft drinks. Grenby TH, et al. **Br J Nutr** 1989 Sep;62(2):451–64
Changes in the mode of calcium and phosphate transport during rat incisal enamel formation. Kawamoto T, et al. **Calcif Tissue Int** 1990 Jun;46(6):406–14
Resolution-enhanced Fourier transform infrared spectroscopy study of the environment of phosphate ions in the early deposits of a solid phase of calcium-phosphate in bone and enamel, and their evolution with age. I: Investigations in the upsilon 4 PO4 domain. Rey C, et al. **Calcif Tissue Int** 1990 Jun;46(6):384–94
Properties of phosphorylated 32 kd nonamelogenin proteins isolated from porcine secretory enamel. Tanabe T, et al. **Calcif Tissue Int** 1990 Mar;46(3):205–15
Effect of a strontium complex on fluoride uptake by artificial caries lesions and sound enamel in vitro. Mellberg JR, et al. **Caries Res** 1990;24(2):93–6
Enamel fluoride uptake affected by site of application: comparing sodium and amine fluorides. Mok Y, et al. **Caries Res** 1990;24(1):11–7
Kinetics of acquisition and loss of calcium fluoride by enamel in vivo. Saxegaard E, et al. **Caries Res** 1989;23(6):406–11
Enhanced root fluoride uptake by monocalcium phosphate monohydrate gels. Takagi S, et al. **Caries Res** 1990; 24(1):18–22
Control of crystal growth during enamel maturation. Robinson C, et al. **Connect Tissue Res** 1989;22(1–4):139–45
Calcium and phosphate uptake of human dental enamel treated with sodium bicarbonate. Goldberg M, et al. **J Biol Buccale** 1990 Mar;18(1):55–8
Possible function of matrix proteins in fluoride incorporation into enamel mineral during porcine amelogenesis. Aoba T, et al. **J Dent Res** 1989 Jul;68(7):1162–8
Nature and role of loosely bound fluoride in dental caries. Arends J, et al. **J Dent Res** 1990 Feb;69 Spec No:601–5; discussion 634–6 (42 ref.)
Fluoride incorporation into and retention in remineralized enamel. Iijima Y, et al. **J Dent Res** 1989 Aug;68(8):1289–92
Chemical events during tooth dissolution. Larsen MJ. **J Dent Res** 1990 Feb;69 Spec No:575–80; discussion 634–6 (49 ref.)
Assessment of loosely-bound and firmly-bound fluoride uptake by tooth enamel from topically applied fluoride treatments. Sieck B, et al. **J Dent Res** 1990 Jun;69(6):1261–5
The antimicrobial action of fluoride and its role in caries inhibition. Van Loveren C. **J Dent Res** 1990 Feb;69 Spec No:676–81; discussion 682–3 (67 ref.)
Cytochemical and biochemical characterization of glycoproteins in forming and maturing enamel of the rat incisor. Nanci A, et al. **J Histochem Cytochem** 1989 Nov; 37(11):1619–33
Effect of sodium lauryl sulfate on protein adsorption to hydroxyapatite in vitro and on pellicle formation in vivo. Rykke M, et al. **Scand J Dent Res** 1990 Apr;98(2):135–43
Micro-PIXE (proton-induced X-ray emission) study of the effects of fluoride on mineral distribution patterns in enamel and dentin in the developing hamster tooth germ. Lyaruu DM, et al. **Scanning Microsc** 1990 Jun;4(2):315–22
Backscattered electron imaging of partially-demineralized enamel. Nelson DG. **Scanning Microsc** 1990 Mar; 4(1):31–41; discussion 42
[Crystallo-chemical problems of dental enamel and new possibilities of in vitro remineralization] Kiss J, et al. **Fogorv Sz** 1990 Aug;83(8):225–33 (15 ref.) (Eng. Abstr.) **(Hun)**

PATHOLOGY

Deciduous enamel defects and caries susceptibility in a prehistoric Ohio population. Duray SM. **Am J Phys Anthropol** 1990 Jan;81(1):27–34
Correlation between physical changes in tooth enamel and changes in iodide penetrability following in vitro or intraoral demineralization. Kashket S, et al. **Caries Res** 1989;23(4):232–7
Visual and tactile observational error: comparative probing reliability with recession and cementoenamel junction measurements. Watts TL. **Community Dent Oral Epidemiol** 1989 Dec;17(6):310–2
Photographic technique for the recording of children's teeth for signs of enamel mottling. Fleming CM, et al. **J Audiov Media Med** 1989 Jan;12(1):16–8
Differential diagnosis of dental fluorosis. Cutress TW, et al. **J Dent Res** 1990 Feb;69 Spec No:714–20; discussion 721 (61 ref.)
Optical quantification of caries-like lesions in vitro by use of a fluorescent dye. Van de Rijke JW, et al. **J Dent Res** 1990 May;69(5):1184–7
Transverse enamel hypoplasia on teeth of South African Plio–Pleistocene hominids. Bombin M. **Naturwissenschaften** 1990 Mar;77(3):128–9
Microradiographic study of amelogenesis imperfecta. Bäckman B, et al. **Scand J Dent Res** 1989 Aug;97(4):316–29
[Changes in the microhardness of the enamel and dentin in pulp inflammation] Grechishnikov VI. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):45–7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Caries protective aspects of saliva and enamel. Peretz B, et al. **N Y State Dent J** 1990 Jan;56(1):25–7
[Homeostasis in the dental enamel–saliva system] Galiulina MV, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):4–5 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Posteruptive age dependency of cariogenic changes in enamel of permanent teeth of children. Wöltgens JH, et al. **J Biol Buccale** 1990 Mar;18(1):49–53
Quantitative in vivo wear of human enamel. Lambrechts P, et al. **J Dent Res** 1989 Dec;68(12):1752–4

RADIATION EFFECTS

Effects of continuous-wave CO2 laser on the ultrastructure of human dental enamel. Ferreira JM, et al. **Arch Oral Biol** 1989;34(7):551–62
A possible mechanism of acquired acid resistance of human dental enamel by laser irradiation. Oho T, et al. **Caries Res** 1990;24(2):86–92
Combined effects of laser and fluoride on acid resistance of human dental enamel. Tagomori S, et al. **Caries Res** 1989; 23(4):225–31
CO2 laser application to the mineralized dental tissues—the possibility of iatrogenic sequelae. Jeffrey IW, et al. **J Dent** 1990 Feb;18(1):24–30 (39 ref.)
Carbon dioxide laser oral safety parameters for teeth. Powell GL, et al. **Lasers Surg Med** 1990;10(4):389–92

SECRETION

Calbindins D-9kDa and -28kDa and enamel secretion in vitamin D-deficient and control rats. Berdal A, et al. **Connect Tissue Res** 1989;22(1–4):165–71

ULTRASTRUCTURE

In vivo and in vitro turnover in dental microwear. Teaford MF, et al. **Am J Phys Anthropol** 1989 Dec;80(4):447–60
Structural characteristics of staircase-type Retzius lines in human dental enamel analyzed by scanning electron microscopy. Risnes S. **Anat Rec** 1990 Feb;226(2):135–46
A transmission electron microscopy study of the adsorption patterns of early developing artificial pellicles on human enamel. Busscher HJ, et al. **Arch Oral Biol** 1989; 34(10):803–10
Ultrastructural demonstration of the carbohydrate in developing rat enamel using soybean agglutinin–gold complexes. Hayashi Y. **Arch Oral Biol** 1989;34(7):517–22
Microstructural features of dipnoan tooth enamel. Ishiyama M, et al. **Arch Oral Biol** 1990;35(6):479–82
The polarized light microscopy and ultrastructure of Polynesian pigmented tooth enamel. Rodda JC, et al. **Arch Oral Biol** 1989;34(6):475–81
An electron microscopic evaluation of the enamel surface subsequent to various debonding procedures. Howell S, et al. **Aust Dent J** 1990 Jun;35(3):245–52
Structural events in the caries process in enamel, cementum, and dentin. Frank RM. **J Dent Res** 1990 Feb;69 Spec No:559–66; discussion 634–6 (61 ref.)
High resolution SE-I SEM study of enamel crystal morphology. Apkarian RP, et al. **J Electron Microsc Tech** 1990 Jan;14(1):70–8
High resolution electron microscopy of enamel crystals in cases of human dental fluorosis. Yanagisawa T, et al. **J Electron Microsc (Tokyo)** 1989;38(6):441–8
Effects of airpolishing on dental plaque removal and hard tissues as evaluated by scanning electron microscopy. Kontturi-Närhi V, et al. **J Periodontol** 1990 Jun;61(6):334–8
Ancestral odontology [editorial] **Lancet** 1990 Sep 15; 336(8716):661–2
Procerberus enamel: a missing link. Lester KS. **Scanning Microsc** 1989 Jun;3(2):639–44
Crystallite orientation discontinuities and the evolution of mammalian enamel—or, when is a prism? Lester KS, et al. **Scanning Microsc** 1989 Jun;3(2):645–62; discussion 663
[Remineralization of incipient caries studied by high-resolution electron microscopy] Li TX. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):171–2, 191 (Eng. Abstr.) **(Chi)**
[The character of incipient carious lesions of the enamel surface] Li YJ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan;25(1):35–7 **(Chi)**
[A transmission electron microscopic study of the structure of enamel in various parts of the human tooth] Mao Y. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):166–7 **(Chi)**
[The orientation of the enamel prisms at the enamel surface] Radlanski RJ, et al. **Anat Anz** 1989;168(5):405–12 (Eng. Abstr.) **(Ger)**
[The orientation of prisms in the dental enamel of human permanent teeth] Radlanski RJ, et al. **Anat Anz** 1990; 170(5):329–37 (Eng. Abstr.) **(Ger)**
[Scanning electron microscopic research on the clinical use of interdental stripping] Radlanski RJ, et al. **Fortschr Kieferorthop** 1990 Apr;51(2):117–22 (Eng. Abstr.) **(Ger)**
[The results of scanning electron microscopy research on interdental stripping in vitro] Radlanski RJ, et al. **Fortschr Kieferorthop** 1989 Aug;50(4):276–84 (Eng. Abstr.) **(Ger)**
[The development of initial enamel caries—a phenomenon of interfacial reactions] Rentsch H, et al. **Zahn Mund Kieferheilkd** 1990;78(3):217–21 (Eng. Abstr.) **(Ger)**
[Comparative transmission electron microscopy and shadow-profile studies of acid-etched enamel surface areas] Schultheiss S, et al. **Zahn Mund Kieferheilkd** 1989; 77(6):569–73 (Eng. Abstr.) **(Ger)**
[The micromorphology of the superficial remineralization of the dental enamel] Wucherpfennig G, et al. **Zahn Mund Kieferheilkd** 1990;78(3):223–9 (Eng. Abstr.) **(Ger)**
[The effect of the temperature factor on the structural status of the rat dental enamel] Bol'shakov GV, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):16–9 (Eng. Abstr.) **(Rus)**
[The surface ultrastructure of human dental enamel studied using scanning electron microscopy] Marchenko AI, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):6–8 (Eng. Abstr.) **(Rus)**

DENTAL ENAMEL HYPOPLASIA

COMPLICATIONS

[New hereditary syndrome with mental retardation] Marincheva GS. **Zh Nevropatol Psikhiatr** 1990;90(3):66–9 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Oculocerebral hypopigmentation syndrome (Cross syndrome) in a Gipsy child. Courtens W, et al. **Acta Paediatr Scand** 1989 Sep;78(5):806–10
A simplified hypoplasia index. Silberman SL, et al. **J Public Health Dent** 1990 Summer;50(4):282–4

ETIOLOGY

Enamel hypoplasias: poor indicators of dietary stress [comment] Neiburger EJ. **Am J Phys Anthropol** 1990 Jun; 82(2):231–3 Comment on: Am J Phys Anthropol 1989 May;79(1):25–41.
Enamel defects in the primary dentition of children born weighing less than 2000 g. Fearne JM, et al. **Br Dent J** 1990 Jun 9;168(11):433–7

HISTORY

Deciduous enamel defects and caries susceptibility in a prehistoric Ohio population. Duray SM. **Am J Phys Anthropol** 1990 Jan;81(1):27–34
Frequency and distribution of enamel hypoplasias in a historic skeletal sample. Lanphear KM. **Am J Phys Anthropol** 1990 Jan;81(1):35–43
Patterns of enamel hypoplasia in two medieval populations from Nubia's Batn el Hajar. Van Gerven DP, et al. **Am J Phys Anthropol** 1990 Aug;82(4):413–20

PATHOLOGY

[Anomalies of enamel formation in subjects with maxillary clefts] Lagarde A, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(4):191–7 (Eng. Abstr.) **(Fre)**

DENTAL ENAMEL PERMEABILITY see under **TOOTH PERMEABILITY**

DENTAL ENAMEL PROTEINS

Human amelogenins: sequences of "TRAP" molecules. Fincham AG, et al. **Calcif Tissue Int** 1989 Oct;45(4):243–50

ANALYSIS

Separation by polyacrylamide gel electrophoresis of multiple proteases in rat and bovine enamel. DenBesten PK, et al. **Arch Oral Biol** 1989;34(6):399–404
Biochemical characterization of stable high molecular-weight aggregates of amelogenins formed during porcine enamel development. Limeback H, et al. **Arch Oral Biol** 1990;35(6):459–68
Electrophoretic demonstration of glycoproteins, lipoproteins, and phosphoproteins in human and bovine enamel. Kirkeby S, et al. **Caries Res** 1990;24(3):169–73
Tooth 'enamelins' identified mainly as serum proteins. Major 'enamelin' is albumin. Strawich E, et al. **Eur J Biochem** 1990 Jul 20;191(1):47–56
Cell biology of tooth enamel formation. Functional electron microscopic monographs. Sasaki T, et al. **Monogr Oral Sci** 1990;14:1–199 (555 ref.)

DRUG EFFECTS

Antagonism of fluoride toxicity by high levels of calcium but not of inorganic phosphate during secretory amelogenesis in the hamster tooth germ in vitro. Bronckers AL, et al. **Arch Oral Biol** 1989;34(8):625–36

A western-blotting study of enamel glycoproteins in rat experimental fluorosis. Dajean S, et al. **Arch Oral Biol** 1989; 34(6):413–8

GENETICS

Analysis of human enamel genes: insights into genetic disorders of enamel. Lau EC, et al. **Cleft Palate J** 1990 Apr;27(2):121–30 (127 ref.)

Of mice and men: anatomy of the amelogenin gene. Snead ML, et al. **Connect Tissue Res** 1989;22(1–4):101–9 (20 ref.)

Amelogenin gene expression in mouse incisor heterotopic recombinations. Amar S, et al. **Differentiation** 1989 Jul; 41(1):56–61

ISOLATION & PURIFICATION

Isolation and partial characterization of a human amelogenin from a single fetal dentition using HPLC techniques. Fincham AG, et al. **Calcif Tissue Int** 1990 Aug;47(2):105–11

The enamelin/non-amelogenin problem. A brief review. Robinson C, et al. **Connect Tissue Res** 1989;22(1–4):93–100 (39 ref.)

Major "enamelin" protein in enamel of developing bovine teeth is albumin. Strawich E, et al. **Connect Tissue Res** 1989;22(1–4):111–21

Enamelins and amelogenins share the same amino-terminal sequence. Zeichner-David M, et al. **Connect Tissue Res** 1989;22(1–4):123–9

METABOLISM

Immunocytochemical localization of amelogenins in the deciduous tooth germs of the human fetus. Uchida T, et al. **Arch Histol Cytol** 1989 Dec;52(5):543–52

Properties of phosphorylated 32 kd nonamelogenin proteins isolated from porcine secretory enamel. Tanabe T, et al. **Calcif Tissue Int** 1990 Mar;46(3):205–15

Influence of colchicine on the addition of a sugar to the enamel protein in secretory ameloblasts of cultured germs of rat molar tooth by 3H-galactose radioautography. Matsuo S, et al. **Cell Tissue Res** 1990 May;260(3):521–8

PHARMACOKINETICS

Immunocytochemical localization of enamelin proteins in developing bovine teeth. Herold RC, et al. **Arch Oral Biol** 1990;35(5):373–9

PHYSIOLOGY

Albumin interaction with caries-like lesions in bovine enamel. van der Linden AH, et al. **Caries Res** 1989;23(6):393–8

Possible function of matrix proteins in fluoride incorporation into enamel mineral during porcine amelogenesis. Aoba T, et al. **J Dent Res** 1989 Jul;68(7):1162–8

Effects of fluoride on matrix proteins and their properties in rat secretory enamel. Aoba T, et al. **J Dent Res** 1990 Jun;69(6):1248–55

ULTRASTRUCTURE

Secondary structure and limited three-dimensional structure of bovine amelogenin. Renugopalakrishnan V, et al. **Connect Tissue Res** 1989;22(1–4):131–8

DENTAL ENAMEL SOLUBILITY

Comparison of the iodide permeability test, the surface microhardness test, and mineral dissolution of bovine enamel following acid challenge. Zero DT, et al. **Caries Res** 1990;24(3):181–8

Chemical events during tooth dissolution. Ingram GS. **J Dent Res** 1990 Feb;69 Spec No:581–6; discussion 634–6 (56 ref.)

Chemical events during tooth dissolution. Larsen MJ. **J Dent Res** 1990 Feb;69 Spec No:575–80; discussion 634–6 (49 ref.)

DRUG EFFECTS

Effect of amine fluoride/stannous fluoride-containing toothpaste and mouthrinsings on dental plaque, gingivitis, plaque and enamel F-accumulation. Bánóczy J, et al. **Caries Res** 1989;23(4):284–8

Effects of fluoride and/or trace elements on enamel solubility. Soyman M, et al. **Proc Finn Dent Soc** 1989;85(3):167–75

[Changes in dental enamel solubility during orthodontic treatment and after prosthesis with fixed dentures made of steel] Ben'kovskaia SG, et al. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):73–4 **(Rus)**

PHYSIOLOGY

Effect of lipids on the lactic acid retardation capacity of tooth enamel and cementum pellicles formed in vitro from saliva of caries-resistant and caries-susceptible human adults. Slomiany BL, et al. **Arch Oral Biol** 1990;35(3):175–80

RADIATION EFFECTS

A possible mechanism of acquired acid resistance of human dental enamel by laser irradiation. Oho T, et al. **Caries Res** 1990;24(2):86–92

Combined effects of laser and fluoride on acid resistance of human dental enamel. Tagomori S, et al. **Caries Res** 1989; 23(4):225–31

DENTAL EQUIPMENT

'Friends of the FDI' [editorial] **Br Dent J** 1989 Oct 21; 167(8):255

Allergic reactions to cold sterilising solutions [letter; comment] Leong ML. **Br Dent J** 1989 Oct 21;167(8):265 Comment on: Br Dent J 1989 Aug 5;167(3):95.

Mercury vapour from aspirators [letter] Smart ER. **Br Dent J** 1990 Feb 24;168(4):138

An aid to the localisation of the mobilised premaxillary segment. Alexander JK, et al. **Br J Oral Maxillofac Surg** 1990 Feb;28(1):57–8

At last—a disposable articulator! Jones ML. **Br J Orthod** 1990 Feb;17(1):55–6

Dental casting of titanium and Ni-Ti alloys by a new casting machine. Hamanaka H, et al. **J Dent Res** 1989 Nov; 68(11):1529–33

Output from visible-light activation units and depth of cure of light-activated composites. McCabe JF, et al. **J Dent Res** 1989 Nov;68(11):1534–9

The efficacy of chlorination and filtration in the control and eradication of Legionella from dental chair water systems. Pankhurst CL, et al. **J Hosp Infect** 1990 Jul;16(1):9–18

Custom-made condylar inserts for repositioning casts in articulators. Allen JD, et al. **J Prosthet Dent** 1990 Jul; 64(1):111–5

Centric relation and programming semiadjustable articulators with the universal jig. Part I: Technique. Dupas PH, et al. **J Prosthet Dent** 1990 Aug;64(2):134–8

Organizing records and equipment for transport to a laboratory. Graser SD. **J Prosthet Dent** 1990 Jan; 63(1):102–3

How to make microwavable denture flasks. McKinstry RE, et al. **J Prosthet Dent** 1990 Jan;63(1):104–10

An experimental study on the influence of the derived casts on the accuracy of different recording materials. Part I: Plaster, impression compound, and wax. Müller J, et al. **J Prosthet Dent** 1990 Mar;63(3):263–9

Making custom cast protectors. Nagy WW. **J Prosthet Dent** 1990 Jan;63(1):111–2

Air-line explosions and low-flying drills [letter] Suresh D. **Lancet** 1990 Feb 3;335(8684):290

[The reliability of axiographic tracings] Zimmer B, et al. **Schweiz Monatsschr Zahnmed** 1989;99(12):1386–91 (Eng. Abstr.) **(Ger)**

[Ionofluor + laser = prevention] Fagnoni V, et al. **Minerva Stomatol** 1989 Jul;38(7):769–72 (Eng. Abstr.) **(Ita)**

[A small-scale ultrasonic device for pre-sterilization treatment of dental instruments] Dmitrieva NA, et al. **Med Tekh** 1990 May-Jun;(3):44–6 (Eng. Abstr.) **(Rus)**

[Equipment for measuring dental bite force (gnathodynamometers] Gutkin VI, et al. **Med Tekh** 1990 Mar-Apr;(2):17–21 (Eng. Abstr.) **(Rus)**

[A method for determining the centric jaw relation taking into account the muscle function of the maxillofacial area] Kostur BK, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug; 68(4):53–5 (Eng. Abstr.) **(Rus)**

HISTORY

[The history of medical engineering instruments development in endodontics] Sunada I. **Kokubyo Gakkai Zasshi** 1990 Jun; 57(2):273–80 (Eng. Abstr.) **(Jpn)**

STANDARDS

The Australian Dental Association product recognition programmes. Tyas MJ. **Aust Dent J** 1989 Dec;34(6):579–80

[The stomatologic polishing machine ShM-03] Semiusov GG. **Med Tekh** 1989 Sep-Oct;(5):59–61 (Eng. Abstr.) **(Rus)**

DENTAL FILLINGS, PERMANENT see **DENTAL RESTORATION, PERMANENT**

DENTAL FILLINGS, TEMPORARY see **DENTAL RESTORATION, TEMPORARY**

DENTAL FISSURES see under **DENTAL CARIES**

DENTAL FISTULA

COMPLICATIONS

Medial mental sinus. Burton J. **Practitioner** 1989 Apr 22; 233(1467):587

DIAGNOSIS

Cutaneous odontogenic sinus simulating a basal cell carcinoma: case report and literature review. Cohen PR, et al. **Plast Reconstr Surg** 1990 Jul;86(1):123–7 (34 ref.)

DENTAL FOCAL INFECTION see **FOCAL INFECTION, DENTAL**

DENTAL GRANULOMA see **PERIAPICAL GRANULOMA**

DENTAL HEALTH EDUCATION see **HEALTH EDUCATION, DENTAL**

DENTAL HEALTH SERVICES

Evaluation of an oral health service for nursing home residents. Vigild M. **Acta Odontol Scand** 1990 Apr; 48(2):99–105

Government dental service in Singapore. Lim KA. **Ann Acad Med Singapore** 1989 Sep;18(5):622–5

Policy document: the dental needs of children. **Br Dent J** 1990 Jan 20;168(2):79–81

Operation Himalaya! Hillman L. **Br Dent J** 1990 Mar 10; 168(5):219

The new CDA Uniform System of Codes and List of Services. Part I—"Beginnings". Crawford PR. **Can Dent Assoc J** 1989 Oct;55(10):789–91

Teeth of steel [editorial] Roberts JL. **Community Dent Health** 1989 Sep;6(3):193–4

Motivating your patients: marketing dental services. Grönroos C, et al. **Int Dent J** 1990 Feb;40(1):18–23

Abstracts of the special meeting on geriatrics. **J Dent Educ** 1990 Jul;54(7):474–81

Proceedings of the seventh annual conference, The Robert Wood Johnson Dental Services Research Scholars Program. Costa Mesa, California, May 30–June 1, 1989. **J Dent Educ** 1989 Nov;53(11):608–82

Comparison of clinical periodontal parameters with the Community Periodontal Index for Treatment Needs (CPITN) data. Schürch E Jr, et al. **Schweiz Monatsschr Zahnmed** 1990;100(4):408–11

[The dental health of institutionalized elderly patients: from awareness to action] Boisvert R, et al. **J Can Dent Assoc** 1990 Mar;56(3):223–4 (Eng. Abstr.) **(Fre)**

[Dental care for children and youths in Zürich] Rinderer L. **Fogorv Sz** 1988 Mar;81(3):85–9 **(Hun)**

[The needs of a ship's crew for orthodontic care] Ulitovskiĭ SB. **Stomatologiia (Mosk)** 1989 Sep-Oct;68(5):88–9 **(Rus)**

[Stomatology under the social security system of Guatemala] Menéndez OR. **Bol Of Sanit Panam** 1990 Feb;108(2):134–40 (Eng. Abstr.) **(Spa)**

[Dental services as a valuable resource in the fight against tobacco-related diseases] Heyden G. **Lakartidningen** 1990 May 16;87(20):1783–4 **(Swe)**

ECONOMICS

The Capitation Study—your questions answered. Holloway PJ, et al. **Br Dent J** 1989 Nov 11;167(9):322–3

A trial of a capitation system of payment for the treatment of children in the General Dental Service. Final report. Dental Health Services Research Unit, University of Manchester. September, 1989. Coventry P, et al. **Community Dent Health** 1989 Dec;6 Suppl 1:1–63

Methodological considerations in the analysis of cost effectiveness in dentistry. Antczak-Bouckoms AA, et al. **J Public Health Dent** 1989 Fall;49(4):215–22

Issues in cost effectiveness in health care. Warner KE. **J Public Health Dent** 1989;49(5 Spec No):272–8

HISTORY

[Stages in the development of dental care in Volgograd Province] Gol'bralkh VR. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):73–5 **(Rus)**

LEGISLATION & JURISPRUDENCE

The continuing care contract [editorial] **Br Dent J** 1989 Nov 11;167(9):295

ORGANIZATION & ADMINISTRATION

The "travelling dentist" system of delivering dental care in Newfoundland and Labrador. Perceptions and observations. Messer JG. **Aretic Med Res** 1988;47 Suppl 1:568–70

Dental practice advisers in their own districts [letter] Lavin AJ. **Br Dent J** 1989 Sep 9;167(5):158

The government's response to AIDS. Palmer C. **J Am Dent Assoc** 1989 Oct;119(4):507–12

[The time requirements for the dental treatment of independent and handicapped geriatric patients. An epidemiological study] Stuck AE, et al. **Schweiz Monatsschr Zahnmed** 1989;99(11):1261–6 (Eng. Abstr.) **(Ger)**

[Dentistry in old age. Care for the occupants of old age homes] Wiehl P. **Schweiz Monatsschr Zahnmed** 1990; 100(3):310–23 **(Ger, Fre)**

[Experience in rendering dental care to the rural population of Smolensk Province by mobile teams] Shargorodskiĭ AG, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):84–6 **(Rus)**

[A method of computing the work input in planning dental outpatient care for children's collectives] Udovitskaia EV, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):82–3 **(Rus)**

STATISTICS & NUMERICAL DATA

Decreases in dental caries do not mean that children no longer need dental services. Waldman HB. **ASDC J Dent Child** 1990 Jul-Aug;57(4):284–8

Who provides what dental services for children? We need more information. Waldman HB. **ASDC J Dent Child** 1990 Jul-Aug;57(4):289–92

[The elderly patient in private practice] Mericske-Stern R,

et al. **Schweiz Monatsschr Zahnmed** 1989;99(11):1245–52 (Eng. Abstr.) **(Ger)**

[Dental care of the elderly. An inquiry on the status of dental welfare in the old age and nursing homes as well as in the geriatric medical clinics of Basel–Stadt and Basel–Land cantons] Wirz J, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(11):1267–72 (Eng. Abstr.) **(Ger)**

SUPPLY & DISTRIBUTION

Dental care in Papua New Guinea. Cowan D. **Br Dent J** 1990 Mar 24;168(6):265

The provision of periodontal services in general dental practice in Australia. Spencer AJ, et al. **Community Dent Health** 1989 Dec;6(4):337–47

Dentists and dentistry changed in the 1980s. Waldman HB. **J Am Coll Dent** 1989 Winter;56(4):4–13 (41 ref.)

Volunteerism. The gift of hope. **J Am Dent Assoc** 1990 Feb; 120(2):128–39

[Relation of disease patterns and dental care services] Pinto VG. **Rev Saude Publica** 1989 Dec;23(6):509–14 (Eng. Abstr.) **(Por)**

TRENDS

Primary dental care in Canadian Arctic communities. Davey KW. **Arctic Med Res** 1988;47 Suppl 1:562–3

Comparing the development of dental services in Arctic regions. Dickson RD. **Arctic Med Res** 1988;47 Suppl 1:564–7 (31 ref.)

Dental caries experience of Inuit children in the Keewatin region, Northwest Territories, 1983/84. MacDonald L, et al. **Arctic Med Res** 1988;47 Suppl 1:557–61

Changing patterns in dental caries and treatment needs in Labrador school children. Messer JG. **Arctic Med Res** 1988;47 Suppl 1:554–6

[Oral health: CH 2000. Dental care of the Swiss population: a model of a health care system] Lutz F, et al. **Schweiz Monatsschr Zahnmed** 1989;99(8):928–42 **(Ger, Fre)**

[Geriatric dentistry in the Canton of Bern] Venner K. **Schweiz Monatsschr Zahnmed** 1989;99(11):1323–5 **(Ger)**

[Geriatric dentistry in the Canton of Zurich] Venner K. **Schweiz Monatsschr Zahnmed** 1989;99(11):1325–7 **(Ger)**

[The realization of a comprehensive program for the development of dental care in the USSR] **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):4–7 **(Rus)**

UTILIZATION

Is there a future for pediatric dentistry? Reviewing the other side of the story. Waldman HB. **ASDC J Dent Child** 1990 May–Jun;57(3):198–202

Mothers' dental attendance patterns and their children's dental attendance and dental health. Gratrix D, et al. **Br Dent J** 1990 Jun 9;168(11):441–3

Results of the socio–dental survey of people aged 50 and older living in East York, Ontario. Leake JL, et al. **Can J Public Health** 1990 Mar–Apr;81(2):120–4

Self assessed oral health awareness and unmet demands among medical and dental professionals in Calcutta. Chattopadhyay A. **Community Dent Oral Epidemiol** 1990 Jun;18(3):163–4

Utilization of the Government dental service by Chinese civil servants in Hong Kong. Mak KK, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):190–3

Economic impact of dental service utilization by older adults. Meskin LH, et al. **J Am Dent Assoc** 1990 Jun;120(6):665–8

Predicting utilization of dental services by the aged. Holtzman JM, et al. **J Public Health Dent** 1990 Spring; 50(3):164–71

Effects of poverty on children's dental health. Call RL. **Pediatrician** 1989;16(3–4):200–6

DENTAL HEALTH SURVEYS

The response rate problem in oral health surveys of older adults in Ontario. Locker D, et al. **Can J Public Health** 1990 May–Jun;81(3):210–4

Dental knowledge, beliefs, attitudes and behaviour of the Asian community in Glasgow. Kay EJ, et al. **Health Bull (Edinb)** 1990 Mar;48(2):73–80

Correlates of self–reported dental health status upon enrollment in the Rand Health Insurance Experiment. Gooch BF, et al. **J Dent Educ** 1989 Nov;53(11):629–37

Indices of root surface caries. Aherne CA, et al. **J Dent Res** 1990 May;69(5):1222–6 (18 ref.)

Statistical properties of some clinical measures of gingivitis and periodontitis. Fleiss JL, et al. **J Periodontol** 1990 Apr; 61(4):201–5

Nutrition and the oral health of the elderly. Palmer CA, et al. **World Rev Nutr Diet** 1989;59:71–94 (98 ref.)

[Effects of chemical occupational environmental factors on the prevalence of damage to the teeth, mouth and jaw of exposed workers] Ruppe K, et al. **Z Gesamte Hyg** 1989 Dec;35(12):702–4 (Eng. Abstr.) **(Ger)**

[Effect of the parental home on the oral health status of children] Schneider HG, et al. **Z Gesamte Hyg** 1989 Sep; 35(9):523–6 (Eng. Abstr.) **(Ger)**

[Comparative study of the plaque–removing effect of oral irrigation] Olasz T, et al. **Fogorv Sz** 1990 May;83(5):145–7 (Eng. Abstr.) **(Hun)**

[Health of the stomatognathic system in old people] Wysokińska–Miszczuk J. **Wiad Lek** 1989 May 15; 42(10):636–40 (Eng. Abstr.) **(Pol)**

DENTAL HIGH SPEED EQUIPMENT

Occupational noise exposures among dentists during the use of high–speed dental drills. Kam JK. **Am Ind Hyg Assoc J** 1990 Apr;51(4):A255

[Development of a measuring device for dental drills] Appel HG, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:244–6 **(Ger)**

[A BF–04 case for portable dental drilling equipment] Kamyshevskaia AD. **Med Tekh** 1989 Sep–Oct;(5):61–3 **(Rus)**

ADVERSE EFFECTS

Orbital emphysema causing vision loss after a dental extraction. Buckley MJ, et al. **J Am Dent Assoc** 1990 Apr; 120(4):421–2, 424; discussion 423

Cervicofacial subcutaneous air emphysema after dental extraction [see comments] Reznick JB, et al. **J Am Dent Assoc** 1990 Apr;120(4):417–9 Comment in: J Am Dent Assoc 1990 Jun;120(6):652.

Hearing–damage risk and communication interference in dental practice. Wilson CE, et al. **J Dent Res** 1990 Feb; 69(2):489–93

DENTAL HIGH SPEED TECHNIC

Effects of the temperature of cooling water during high–speed and ultrahigh–speed tooth preparation. Lauer HC, et al. **J Prosthet Dent** 1990 Apr;63(4):407–14

DENTAL HYGIENISTS

GDC decides future role of dental hygienists [editorial] **Br Dent J** 1990 Jul 7;169(1):1

The independent practice of dental hygiene. Rothweiler LA. **Dent Clin North Am** 1990 Jan;34(1):149–53

Dental hygienists' anti–tobacco role: educational perspectives. Fried JL, et al. **J Dent Educ** 1989 Dec; 53(12):712–7

The future of the dental hygienist [editorial] Dunning JM. **J Public Health Dent** 1990 Winter;50(1):3–4

Examiner agreement between hygienists and dentists for caries prevalence examinations. Mauriello SM, et al. **J Public Health Dent** 1990 Winter;50(1):32–7

EDUCATION

Dental hygiene education. The case for the currently accredited model. Hein JW. **J Am Coll Dent** 1990 Summer; 57(2):14, 16–21

Dental hygiene education [letter] Redig DF. **J Am Coll Dent** 1990 Summer;57(2):5

Dental hygiene education. The case for the Alabama Dental Hygiene Program. Studstill ZD. **J Am Coll Dent** 1990 Summer;57(2):15, 22–5

Dental education: embarking on a new era. McCann D. **J Am Dent Assoc** 1990 Jun;120(6):654–9

Task force on innovation in dental hygiene curricula. Bader J, et al. **J Dent Educ** 1989 Dec;53(12):731–7

Patients' perceptions of dental hygiene student social and clinical behavior. Clark PM, et al. **J Dent Educ** 1989 Oct; 53(10):590–2

Bulimia and anorexia nervosa in dental and dental hygiene curricula. Gross KB, et al. **J Dent Educ** 1990 Mar; 54(3):210–2

Dental hygiene curriculum model for transition to future roles. Paarmann CS, et al. **J Dent Educ** 1990 Mar; 54(3):199–204

Dental hygienists' knowledge and opinions about fluorides and fluoridation. Chovanec GK, et al. **J Public Health Dent** 1990 Summer;50(4):227–34

LEGISLATION & JURISPRUDENCE

Dental hygiene regulation and practice. Reveal M. **J Public Health Dent** 1989 Fall;49(4):228–30

The licensure of dental hygienists in Colorado—an update. Vernon TM. **J Public Health Dent** 1989 Fall;49(4):234

On compliance with the dental practice act [letter] Valinoti JR. **N Y State Dent J** 1989 Nov;55(9):12

PSYCHOLOGY

Dental hygienists' attitudes towards dental care for people with a mental handicap and their perceptions of the adequacy of their training. Bickley SR. **Br Dent J** 1990 May 5;168(9):361–4

Characteristics of dental hygienists who are faculty members in baccalaureate dental hygiene programs. Glick NL. **J Dent Educ** 1990 Jun;54(6):323–5

Attitudes and behaviors of dental hygienists concerning tobacco use. Fried JL, et al. **J Public Health Dent** 1990 Spring;50(3):172–7

Stress–related symptoms among dental hygienists. Lang RJ, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):715–22

SUPPLY & DISTRIBUTION

Dental hygienist supply: workforce patterns and trends. Johnson PM. **J Can Dent Assoc** 1990 Jul;56(7):621–5

Hygienist recruitment. A local effort. Albert SB, et al. **N Y State Dent J** 1989 Nov;55(9):42–4

DENTAL IMPLANTATION

Chronic urticaria after implantation of 2 nickel–containing dental prostheses in a nickel–allergic patient. España A, et al. **Contact Dermatitis** 1989 Sep;21(3):204–5

Becoming an expert in oral implantology [letter; comment] Clepper DP. **J Oral Maxillofac Surg** 1990 May;48(5):547 Comment on: J Oral Maxillofac Surg 1989 Oct;47(10):1013.

Implanting the right idea [editorial] [see comments] Laskin DM. **J Oral Maxillofac Surg** 1989 Oct;47(10):1013 Comment in: J Oral Maxillofac Surg 1990 May;48(5):547.

[Optimization of surgical tooth preservation using a fully ready–made post implant construction system for endodontic implantation] Staegemann G, et al. **Zahn Mund Kieferheilkd** 1989;77(5):414–20 (Eng. Abstr.) **(Ger)**

[Contraindications for dental implantation, proposals for conventional prosthetic rehabilitation in cases not suitable for implantation] Szöllösi K, et al. **Fogorv Sz** 1990 Mar; 83(3):71–5 **(Hun)**

[Histological investigation of improvement of jaw–bone structure for application of hydroxyapatite dental implant] Masuda T. **Kokubyo Gakkai Zasshi** 1989 Jun;56(2):289–313 (Eng. Abstr.) **(Jpn)**

[Histological investigation of improvement of mandibular atrophy for application of hydroxyapatite dental implant] Uoshima K. **Kokubyo Gakkai Zasshi** 1989 Jun;56(2):314–46 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Fatal air embolism during dental implant surgery: a report of three cases [see comments] Davies JM, et al. **Can J Anaesth** 1990 Jan;37(1):112–21 Comment in: Can J Anaesth 1990 Jan;37(1):12–4.

Mandibular fractures through endosseous cylinder implants: report of cases and review. Mason ME, et al. **J Oral Maxillofac Surg** 1990 Mar;48(3):311–7 (24 ref.)

[Lesions of the inferior alveolar nerve] Carnevali R, et al. **Minerva Stomatol** 1989 Sep;38(9):1015–9 (Eng. Abstr.) **(Ita)**

METHODS

Dental implants. Permanent replacement for lost teeth. Mioduski TE Jr, et al. **AORN J** 1990 Mar;51(3):729, 731, 733–4 passim

PSYCHOLOGY

[Problems posed by dental implants and prostheses in daily practice at the department of psychiatry of a general hospital] Van Amerongen AP. **Ann Med Psychol (Paris)** 1990 Jan;148(1):71–4 **(Fre)**

STATISTICS & NUMERICAL DATA

Dental implantology in U.S. dental schools. Bavitz JB. **J Dent Educ** 1990 Mar;54(3):205–6

TRENDS

[Implantology—the demand is great (editorial)] Venner K. **Schweiz Monatsschr Zahnmed** 1990;100(6):695, 697 **(Ger, Fre)**

DENTAL IMPLANTATION, ENDOSSEOUS

Rigid endosseous implants for orthodontic and orthopedic anchorage. Roberts WE, et al. **Angle Orthod** 1989 Winter; 59(4):247–56

Biological and clinical evaluation of the transmandibular implant. Arvier J, et al. **Aust Dent J** 1989 Dec;34(6):524–9

An osseointegrated implant to replace a missing lateral incisor following orthodontic treatment. Scher EL. **Br J Orthod** 1990 May;17(2):147–53

Osseointegration. **Dent Clin North Am** 1989 Oct; 33(4):537–909

Osseointegration: current state of the art. Albrektsson T, et al. **Dent Clin North Am** 1989 Oct;33(4):537–54 (67 ref.)

Patient evaluation and prosthodontic treatment planning for osseointegrated implants. Eckert SE, et al. **Dent Clin North Am** 1989 Oct;33(4):599–618 (19 ref.)

Osseointegration in maxillofacial prosthetics. Ismail JY, et al. **Dent Clin North Am** 1990 Apr;34(2):327–41

Hydroxylapatite–coated dental implants. Biologic rationale and surgical technique. Krauser JT. **Dent Clin North Am** 1989 Oct;33(4):879–903 (39 ref.)

Soft–tissue modifications of surgical techniques for placement and uncovering of osseointegrated implants. Moy PK, et al. **Dent Clin North Am** 1989 Oct;33(4):665–81

Computed tomography in dental implantation surgery. Schwarz MS, et al. **Dent Clin North Am** 1989 Oct; 33(4):555–97 (18 ref.)

Presurgical prosthetics and surgical templates. Zinner ID, et al. **Dent Clin North Am** 1989 Oct;33(4):619–33 (6 ref.)

Treatment planning for tissue integrated prosthesis. Henry PJ. **Int Dent J** 1989 Sep;39(3):171–82 (24 ref.)

Terminal dentition in elderly patients and implant therapy alternatives. Zarb GA, et al. **Int Dent J** 1990 Apr; 40(2):67–73 (36 ref.)

Parallelism of implants visualised on the orthopantomogram. ten Bruggenkate CM, et al. **Int J Oral Maxillofac Surg** 1989 Aug;18(4):213–5

Implants proved successful in atrophied mandibles. Dove J, et al. **J Am Dent Assoc** 1990 Aug;121(2):288
Biointegrated hydroxylapatite-coated dental implants: 5-year clinical observations. Kent JN, et al. **J Am Dent Assoc** 1990 Jul;121(1):138-44
Dental implant reconstruction after endodontic failure: report of case. Mentag PJ, et al. **J Am Dent Assoc** 1990 Aug; 121(2):241-4
Clinical and microscopic findings in edentulous patients 3 years after incorporation of osseointegrated implant-supported bridgework. Bower RC, et al. **J Clin Periodontol** 1989 Oct;16(9):580-7
Osseo-integrated implant treatment of a patient with rapidly progressive periodontitis. A case report. Malmstrom HS, et al. **J Periodontol** 1990 May;61(5):300-4
Residual ridge changes under titanium plasma-sprayed screw implant systems. el Charkawi HG. **J Prosthet Dent** 1989 Nov;62(5):576-80
The use of stainless steel keepers for tissue-integrated prostheses. Drago CJ. **J Prosthet Dent** 1989 Oct; 62(4):435-6
Resolving esthetic and phonetic problems associated with maxillary implant-supported prostheses. A clinical report. Graser GN, et al. **J Prosthet Dent** 1989 Oct;62(4):376-8
Veterans Administration Cooperative Dental Implant Study--comparisons between fixed partial dentures supported by blade-vent implants and removable partial dentures. Part II: Comparisons of success rates and periodontal health between two treatment modalities. Kapur KK. **J Prosthet Dent** 1989 Dec;62(6):685-703
Fixed mandibular complete denture prostheses supported by mandibular staple bone plate implant. Knapp JG, et al. **J Prosthet Dent** 1990 Jan;63(1):73-6
Factors influencing long-term implant success. Linkow LI, et al. **J Prosthet Dent** 1990 Jan;63(1):64-73
A comparison of the stress transfer characteristics of a dental implant with a rigid or a resilient internal element. McGlumphy EA, et al. **J Prosthet Dent** 1989 Nov; 62(5):586-93
Prosthodontic considerations for the transmandibular implant. Maxson BB, et al. **J Prosthet Dent** 1990 May; 63(5):554-8
Consequences of inadequate bone healing before implant surgery [letter] O'Roark WL. **J Prosthet Dent** 1990 Jul; 64(1):119
Finite element analysis of six endosseous implants. Rieger MR, et al. **J Prosthet Dent** 1990 Jun;63(6):671-6
Finite element analysis of bone-adapted and bone-bonded endosseous implants. Rieger MR, et al. **J Prosthet Dent** 1989 Oct;62(4):436-40
Criteria for success of osseointegrated endosseous implants. Smith DE, et al. **J Prosthet Dent** 1989 Nov;62(5):567-72 (45 ref.)
The use of vascularized bone grafts in osseointegration. A clinical report. Tuminelli FJ. **J Prosthet Dent** 1989 Oct; 62(4):371-5
Stress-absorbing elements in dental implants. van Rossen IP, et al. **J Prosthet Dent** 1990 Aug;64(2):198-205
The longitudinal clinical effectiveness of osseointegrated dental implants: the Toronto study. Part II: The prosthetic results. Zarb GA, et al. **J Prosthet Dent** 1990 Jul; 64(1):53-61
The longitudinal clinical effectiveness of osseointegrated dental implants: the Toronto study. Part I: Surgical results. Zarb GA, et al. **J Prosthet Dent** 1990 Apr;63(4):451-7
The longitudinal clinical effectiveness of osseointegrated dental implants: the Toronto study. Part III: Problems and complications encountered. Zarb GA, et al. **J Prosthet Dent** 1990 Aug;64(2):185-94
New Zealand Dental Association: report of the Committee on Dental Health on osseointegrated implants. Annan JR. **N Z Dent J** 1989 Oct;85(382):139-41
Functional mandibular reconstruction of patients with oral cancer. Buchbinder D, et al. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4 Pt 2):499-503; discussion 503-4
The combined use of endosseous dental implants and collagen/hydroxylapatite augmentation procedures for reconstruction/augmentation of the edentulous and atrophic mandible: a preliminary report. Marshall SG. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4 Pt 2):517-25; discussion 525-6
On occlusal forces in dentitions with implant-supported fixed cantilever prostheses. Falk H. **Swed Dent J Suppl** 1990; 69:1-40
[Contribution to the experimental study of endosseous sintered ceramic implants] Dubruille JH, et al. **Rev Stomatol Chir Maxillofac** 1990;91(1):70-2 (Eng. Abstr.) (Fre)
[A practical method for the determination of the available bone height in oral implantology] Gallimidi J, et al. **Rev Stomatol Chir Maxillofac** 1989;90(5):357-61 (Eng. Abstr.) (Fre)
[The Tübingen implant within the scope of adult orthodontic treatment] Dausch-Neumann D, et al. **Fortschr Kieferorthop** 1989 Oct;50(5):473-81 (Eng. Abstr.) (Ger)
[Anatomo-roentgenological study of atrophy of the alveolar process of the maxilla with special reference to endosseous implants] Neuhauser J. **Wien Klin Wochenschr** 1990 Jul 13; 102(14):415-8 (Ger)
[Observation on implants of porous hydroxyapatite granules in periodontal osseous defects] Hashimoto M. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):116-45 (Eng. Abstr.) (Jpn)
[Implantation at a district dental polyclinic] Gurfinkel' LN, et al. **Stomatologiia (Mosk)** 1990 Mar-Apr;69(2):80 (Rus)
[The effect of a biogenic paste containing hydroxyapatite on the dynamics of the bone integration of immediate implants] Nazarov SG, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):14-6 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Preventing and resolving complications with osseointegrated implants. Balshi TJ. **Dent Clin North Am** 1989 Oct; 33(4):821-68 (36 ref.)
Osseointegration. Complications. Prevention, recognition, treatment. Berman CL. **Dent Clin North Am** 1989 Oct; 33(4):635-63
Implants and infections with special reference to oral bacteria. Haanaes HR. **J Clin Periodontol** 1990 Aug;17(7 (Pt 2)):516-24 (38 ref.)
Maxillary sinusitis from dental osseointegrated implants. Quiney RE, et al. **J Laryngol Otol** 1990 Apr;104(4):333-4
Life-threatening hemorrhage from placement of a dental implant. Mason ME, et al. **J Oral Maxillofac Surg** 1990 Feb;48(2):201-4
Correlation between clinical and histological evaluations of the peri-implant gingiva around the single-crystal sapphire endosseous implant. Akagawa Y, et al. **J Oral Rehabil** 1989 Nov;16(6):581-7
Complications with osseointegrated implants. Sones AD. **J Prosthet Dent** 1989 Nov;62(5):581-5

INSTRUMENTATION

Orthodontic treatment enhances the use of endosseous implants to replace missing teeth. Ive JC. **Angle Orthod** 1990 Summer;60(2):153-7
Rigid endosseous implant utilized as anchorage to protract molars and close an atrophic extraction site. Roberts WE, et al. **Angle Orthod** 1990 Summer;60(2):135-52
Clinical applications of osseointegrated implants. Paterson DJ, et al. **J Can Dent Assoc** 1990 May;56(5):411-6
A histological comparison in the dog of porous-coated vs. threaded dental implants. Deporter DA, et al. **J Dent Res** 1990 May;69(5):1138-45
Custom stent fabrication for free gingival grafts around osseointegrated abutment fixtures. Brygider RM, et al. **J Prosthet Dent** 1989 Sep;62(3):320-2
Direct assembly framework for osseointegrated implant prosthesis. Sellers GC. **J Prosthet Dent** 1989 Dec; 62(6):662-8
Clinical application of dental implant with root of coated bioglass: short-term results. Kudo K, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):18-23
Displacement of a root form implant into the mandibular canal. Theisen FC, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):24-8
[A practical method for the surgical uncovering of a buried implant] Gallimidi J, et al. **Rev Stomatol Chir Maxillofac** 1990;91(4):319-21 (Eng. Abstr.) (Fre)

METHODS

A clinical study of the Brånemark dental implant system. Gregory M, et al. **Br Dent J** 1990 Jan 6;168(1):18-23 (28 ref.)
Integral implant-prosthodontic considerations. Finger IM, et al. **Dent Clin North Am** 1989 Oct;33(4):793-819 (9 ref.)
Biologic and clinical rationale for second-stage surgery and maintenance. Jaffin RA. **Dent Clin North Am** 1989 Oct; 33(4):683-99 (46 ref.)
The IMZ osteointegrated implant system. Kirsch A, et al. **Dent Clin North Am** 1989 Oct;33(4):733-91 (13 ref.)
Brånemark osseointegration. Prognosis and treatment rationale. Kopp CD. **Dent Clin North Am** 1989 Oct; 33(4):701-31 (14 ref.)
A multimodal approach to implant prosthodontics. Niznick GA. **Dent Clin North Am** 1989 Oct;33(4):869-78
Esthetic maxillary arch vertical location for the osseointegrated cylinder implant. Jensen OT, et al. **J Am Dent Assoc** 1989 Dec;119(6):735-6
A new method of inserting endosseous implants in totally atrophic maxillae. Sailer HF. **J Craniomaxillofac Surg** 1989 Oct;17(7):299-305
Antral grafting for endosseous implants [letter; comment] Dietsh FF. **J Oral Maxillofac Surg** 1989 Nov;47(11):1241 Comment on: J Oral Maxillofac Surg 1989 Mar;47(3):238-42.
Reconstruction of the severely resorbed maxilla with bone grafting and osseointegrated implants: a preliminary report. Jensen J, et al. **J Oral Maxillofac Surg** 1990 Jan;48(1):27-32; discussion 33
Initial interface between submerged hydroxyapatite-coated titanium alloy implant and mandibular bone after nontapping and tapping insertions in monkeys. Akagawa Y, et al. **J Prosthet Dent** 1990 May;63(5):559-64
Slip-cast zirconia dental roots with tunnels drilled by laser process. Minamizato T. **J Prosthet Dent** 1990 Jun; 63(6):677-84
Soldering technique for osseointegrated implant prostheses. Sutherland JK, et al. **J Prosthet Dent** 1990 Feb;63(2):242-4
Radiographic control of fixture-abutment connection in Brånemark implant technique. Sewerin IP. **Scand J Dent Res** 1989 Dec;97(6):559-64
[Implantology. Fixed extension bridges on implants in the edentulous jaw--a treatment concept] Grunder U. **Schweiz Monatsschr Zahnmed** 1989;99(8):920-7 (Ger, Fre)

STANDARDS

Osseointegrated dental implants here to stay [editorial] **Lancet** 1990 May 19;335(8699):1190-1

DENTAL IMPLANTATION, ENDOSSEOUS, ENDODONTIC

[Experimental study on apatite ceramics used as endodontic endosseous implant] Tomizuka K. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):201-26 (Eng. Abstr.) (Jpn)

DENTAL IMPLANTS

see related
TOOTH, ARTIFICIAL

Orthodontic treatment enhances the use of endosseous implants to replace missing teeth. Ive JC. **Angle Orthod** 1990 Summer;60(2):153-7
Rigid endosseous implants for orthodontic and orthopedic anchorage. Roberts WE, et al. **Angle Orthod** 1989 Winter; 59(4):247-56
Rigid endosseous implant utilized as anchorage to protract molars and close an atrophic extraction site. Roberts WE, et al. **Angle Orthod** 1990 Summer;60(2):135-52
Biological and clinical evaluation of the transmandibular implant. Arvier J, et al. **Aust Dent J** 1989 Dec;34(6):524-9
Tricalcium phosphate ceramic as immediate root implants for the maintenance of alveolar bone in partially edentulous mandibular jaws. A clinical study. Mathai JK, et al. **Aust Dent J** 1989 Oct;34(5):421-6
A clinical study of the Brånemark dental implant system. Gregory M, et al. **Br Dent J** 1990 Jan 6;168(1):18-23 (28 ref.)
An osseointegrated implant to replace a missing lateral incisor following orthodontic treatment. Scher EL. **Br J Orthod** 1990 May;17(2):147-53
Osseointegration. **Dent Clin North Am** 1989 Oct; 33(4):537-909
Osseointegration: current state of the art. Albrektsson T, et al. **Dent Clin North Am** 1989 Oct;33(4):537-54 (67 ref.)
Patient evaluation and prosthodontic treatment planning for osseointegrated implants. Eckert SE, et al. **Dent Clin North Am** 1989 Oct;33(4):599-618 (19 ref.)
Integral implant-prosthodontic considerations. Finger IM, et al. **Dent Clin North Am** 1989 Oct;33(4):793-819 (9 ref.)
Biologic and clinical rationale for second-stage surgery and maintenance. Jaffin RA. **Dent Clin North Am** 1989 Oct; 33(4):683-99 (46 ref.)
The IMZ osteointegrated implant system. Kirsch A, et al. **Dent Clin North Am** 1989 Oct;33(4):733-91 (13 ref.)
Brånemark osseointegration. Prognosis and treatment rationale. Kopp CD. **Dent Clin North Am** 1989 Oct; 33(4):701-31 (14 ref.)
Hydroxylapatite-coated dental implants. Biologic rationale and surgical technique. Krauser JT. **Dent Clin North Am** 1989 Oct;33(4):879-903 (39 ref.)
Soft-tissue modifications of surgical techniques for placement and uncovering of osseointegrated implants. Moy PK, et al. **Dent Clin North Am** 1989 Oct;33(4):665-81
A multimodal approach to implant prosthodontics. Niznick GA. **Dent Clin North Am** 1989 Oct;33(4):869-78
Computed tomography in dental implantation surgery. Schwarz MS, et al. **Dent Clin North Am** 1989 Oct; 33(4):555-97 (18 ref.)
Presurgical prosthetics and surgical templates. Zinner ID, et al. **Dent Clin North Am** 1989 Oct;33(4):619-33 (6 ref.)
Treatment planning for tissue integrated prosthesis. Henry PJ. **Int Dent J** 1989 Sep;39(3):171-82 (24 ref.)
A comparative experimental investigation in monkeys between three different implant materials. Nordlund A, et al. **Int J Oral Maxillofac Surg** 1989 Dec;18(6):373-7
Implants proved successful in atrophied mandibles. Dove J, et al. **J Am Dent Assoc** 1990 Aug;121(2):288
Biointegrated hydroxylapatite-coated dental implants: 5-year clinical observations. Kent JN, et al. **J Am Dent Assoc** 1990 Jul;121(1):138-44
Dental implant reconstruction after endodontic failure: report of case. Mentag PJ, et al. **J Am Dent Assoc** 1990 Aug; 121(2):241-4
Dental implant abutment resembling the two-phase tooth mobility. Richter EJ, et al. **J Biomech** 1990;23(4):297-306
Tissues at the surface of the new composite material titanium/glass-ceramic for replacement of bone and teeth. Müller-Mai C, et al. **J Biomed Mater Res** 1989 Oct; 23(10):1149-68
Clinical applications of osseointegrated implants. Paterson DJ, et al. **J Can Dent Assoc** 1990 May;56(5):411-6
Implant introspection. An interview with Perry Trester [interview] Trester P. **J Can Dent Assoc** 1990 May; 56(5):417-9
Clinical and microscopic findings in edentulous patients 3 years after incorporation of osseointegrated implant-supported bridgework. Bower RC, et al.

J Clin Periodontol 1989 Oct;16(9):580–7
A new method of inserting endosseous implants in totally atrophic maxillae. Sailer HF. J Craniomaxillofac Surg 1989 Oct;17(7):299–305
A histological comparison in the dog of porous-coated vs. threaded dental implants. Deporter DA, et al. J Dent Res 1990 May;69(5):1138–45
The effect of diameter and length of hydroxylapatite-coated dental implants on ultimate pullout force in dog alveolar bone. Block MS, et al. J Oral Maxillofac Surg 1990 Feb; 48(2):174–8
Restoration of mandibular continuity defects using combinations of hydroxylapatite and autogenous bone: microscopic observations. Cobb CM, et al. J Oral Maxillofac Surg 1990 Mar;48(3):268–75
Mechanical behavior of mandibular continuity defects reconstructed using combinations of hydroxylapatite and autogenous bone. Eick JD, et al. J Oral Maxillofac Surg 1990 Aug;48(8):823–30
Osseointegrated implants for prosthetic reconstruction in a patient with scleroderma: report of a case. Jensen J, et al. J Oral Maxillofac Surg 1990 Jul;48(7):739–41
Allogeneic bone or hydroxylapatite for the sinus lift procedure? [letter] Jensen OT. J Oral Maxillofac Surg 1990 Jul;48(7):771
Alveolar ridge augmentation in Macaca fascicularis using polysulfone with and without demineralized bone powder. Salama F, et al. J Oral Maxillofac Surg 1989 Nov; 47(11):1169–76
Extraoral placement of a subperiosteal tissue expander for reconstruction with hydroxylapatite of the severely atrophic mandibular alveolar ridge. Schwartz HC, et al. J Oral Maxillofac Surg 1990 Feb;48(2):157–61
Rigid fixation of an open splint for hydroxylapatite augmentation. Varboncoeur AP, et al. J Oral Maxillofac Surg 1990 Jun;48(6):657–8
Investigation of the surface texture of hydroxylapatite-coated dental implants by means of SEM. van Rossen IP, et al. J Oral Rehabil 1989 Sep;16(5):447–50
Ultrastructural and histochemical study of beta-tricalcium phosphate resorbing cells in periodontium of dogs. Wada T, et al. J Periodont Res 1989 Nov;24(6):391–401
The effects of scaling titanium implant surfaces with metal and plastic instruments on cell attachment. Dmytryk JJ, et al. J Periodontol 1990 Aug;61(8):491–6
The effects of scaling a titanium implant surface with metal and plastic instruments: an in vitro study. Fox SC, et al. J Periodontol 1990 Aug;61(8):485–90
Osseo-integrated implant treatment of a patient with rapidly progressive periodontitis. A case report. Malmstrom HS, et al. J Periodontol 1990 May;61(5):300–4
Biphasic calcium phosphate ceramic combined with fibrillar collagen with and without citric acid conditioning in the treatment of periodontal osseous defects. Nery EB, et al. J Periodontol 1990 Mar;61(3):166–72
Residual ridge changes under titanium plasma-sprayed screw implant systems. el Charkawi HG. J Prosthet Dent 1989 Nov;62(5):576–80
Dental implants: a survey of patients' attitudes. Grogono AL, et al. J Prosthet Dent 1989 Nov;62(5):573–6
Veterans Administration Cooperative Dental Implant Study—comparisons between fixed partial dentures supported by blade-vent implants and removable partial dentures. Part II: Comparisons of success rates and periodontal health between two treatment modalities. Kapur KK. J Prosthet Dent 1989 Dec;62(6):685–703
Fixed mandibular complete denture prostheses supported by mandibular staple bone plate implant. Knapp JG, et al. J Prosthet Dent 1990 Jan;63(1):73–6
Factors influencing long-term implant success. Linkow LI, et al. J Prosthet Dent 1990 Jan;63(1):64–73
Cleaning the internal threaded chamber of osseointegrated implants. McCartney JW, et al. J Prosthet Dent 1990 Apr; 63(4):488
Retrieving fractured intramobile elements from osseointegrated implants. McCartney JW, et al. J Prosthet Dent 1990 Feb;63(2):245
A comparison of the stress transfer characteristics of a dental implant with a rigid or a resilient internal element. McGlumphy EA, et al. J Prosthet Dent 1989 Nov; 62(5):586–93
Consequences of inadequate bone healing before implant surgery [letter] O'Roark WL. J Prosthet Dent 1990 Jul; 64(1):119
Finite element analysis of six endosseous implants. Rieger MR, et al. J Prosthet Dent 1990 Jun;63(6):671–6
Finite element analysis of bone-adapted and bone-bonded endosseous implants. Rieger MR, et al. J Prosthet Dent 1989 Oct;62(4):436–40
A finite element survey of eleven endosseous implants. Rieger MR, et al. J Prosthet Dent 1990 Apr;63(4):457–65
Direct assembly framework for osseointegrated implant prosthesis. Sellers GC. J Prosthet Dent 1989 Dec; 62(6):662–8
Criteria for success of osseointegrated endosseous implants. Smith DE, et al. J Prosthet Dent 1989 Nov;62(5):567–72 (45 ref.)
An evaluation of impression techniques for osseointegrated implants. Spector MR, et al. J Prosthet Dent 1990 Apr; 63(4):444–7
Stress-absorbing elements in dental implants. van Rossen IP, et al. J Prosthet Dent 1990 Aug;64(2):198–205
Eleven-year study of hydroxyapatite implants [letter; comment] Williams RA. J Prosthet Dent 1990 Apr; 63(4):491 Comment on: J Prosthet Dent 1989 Jun;61(6):706–12.
The longitudinal clinical effectiveness of osseointegrated dental implants: the Toronto study. Part III: Problems and complications encountered. Zarb GA, et al. J Prosthet Dent 1990 Aug;64(2):185–94
The longitudinal clinical effectiveness of osseointegrated dental implants: the Toronto Study. Part II: The prosthetic results. Zarb GA, et al. J Prosthet Dent 1990 Jul; 64(1):53–61
Surgical and prosthodontic residual ridge reconstruction with hydroxyapatite. Zeltser C, et al. J Prosthet Dent 1989 Oct; 62(4):441–8 (27 ref.)
Osseointegrated dental implants here to stay [editorial] Lancet 1990 May 19;335(8699):1190–1
New Zealand Dental Association: report of the Committee on Dental Health on osseointegrated implants. Annan JR. N Z Dent J 1989 Oct;85(382):139–41
The diagnostic value of subtraction radiography in the assessment of granular hydroxylapatite implants. Engelke W, et al. Oral Surg Oral Med Oral Pathol 1990 May; 69(5):636–41
Clinical application of dental implant with root of coated bioglass: short-term results. Kudo K, et al. Oral Surg Oral Med Oral Pathol 1990 Jul;70(1):18–23
Augmentation of the atrophic edentulous maxilla with hydroxylapatite. Maloney PL, et al. Oral Surg Oral Med Oral Pathol 1990 May;69(5):533–8
The combined use of endosseous dental implants and collagen/hydroxylapatite augmentation procedures for reconstruction/augmentation of the edentulous and atrophic mandible: a preliminary report. Marshall SG. Oral Surg Oral Med Oral Pathol 1989 Oct;68(4 Pt 2):517–25; discussion 525–6
Collagen/hydroxylapatite implant for augmenting deficient alveolar ridges: a 24-month clinical and histologic summary. Mehlisch DR. Oral Surg Oral Med Oral Pathol 1989 Oct;68(4 Pt 2):505–14, discussion 514–6
Tissue integration of A12O3-ceramic dental implants (Frialit)—a case report. Anneroth G, et al. Swed Dent J 1990;14(2):63–70
On occlusal forces in dentitions with implant-supported fixed cantilever prostheses. Falk H. Swed Dent J Suppl 1990; 69:1–40
[Experimental study of composites of bovine bone morphogenetic protein and bio-active glass ceramic implanted into surgically produced periodontal bony defects in dogs] Jin Y. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Nov; 24(6):347–9, 386 (Eng. Abstr.) (Chi)
[Use of dense polycrystal particulate hydroxyapatite artificial bone implant in augmentation of deficient alveolar ridges] Wang DZ. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Sep;24(5):289–91, 319 (Eng. Abstr.) (Chi)
[SEM observation of the interface between hydroxyapatite ceramic and metal compound implant materials] Xia FX. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Sep; 24(5):270–2, 318–9 (Eng. Abstr.) (Chi)
[A practical method for the surgical uncovering of a buried implant] Gallimidi J, et al. Rev Stomatol Chir Maxillofac 1990;91(4):319–21 (Eng. Abstr.) (Fre)
[Morphologic aspects of endosseous healing of Tübingen implants in vascularized iliac crest] Donath K, et al. Fortschr Kiefer Gesichtschir 1990;35:82–5 (Ger)
[Plastic-reconstructive measures with free microvascular bone transplants in combination with implants] Neukam FW, et al. Fortschr Kiefer Gesichtschir 1990;35:79–82 (Ger)
[The value of 3D-CT in maxillary surgical diagnosis and therapy planning] Zwicker C, et al. ROFO 1990 Apr; 152(4):393–7 (Eng. Abstr.) (Ger)
[Implant-bearing crowns and bridges. The indications, therapeutic planning and crown-bridge prosthetic aspects] Brägger U, et al. Schweiz Monatsschr Zahnmed 1990; 100(6):730–40 (Ger, Fre)
[Implantology. Fixed extension bridges on implants in the edentulous jaw—a treatment concept] Grunder U. Schweiz Monatsschr Zahnmed 1989;99(8):920–7 (Ger, Fre)
[Observation on implants of porous hydroxyapatite granules in periodontal osseous defects] Hashimoto M. Kokubyo Gakkai Zasshi 1990 Mar;57(1):116–45 (Eng. Abstr.) (Jpn)
[Experimental study on apatite ceramics used as endodontic endosseous implant] Tomizuka K. Kokubyo Gakkai Zasshi 1990 Mar;57(1):201–26 (Eng. Abstr.) (Jpn)
[Indications and contraindications for the orthodontic treatment of dental arch defects using implants (a review)] Matveeva AI, et al. Stomatologiia (Mosk) 1989 Nov-Dec; 68(6):76–9 (43 ref.) (Rus)
[The properties of dental implants made of Al2O3-ceramic and the results of their clinical use] Piesold J, et al. Stomatologiia (Mosk) 1990 Jan-Feb;69(1):42–6 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Small plate osteosynthesis [letter] Postlethwaite KR. Br J Oral Maxillofac Surg 1990 Apr;28(2):138
Preventing and resolving complications with osseointegrated implants. Balshi TJ. Dent Clin North Am 1989 Oct; 33(4):821–68 (36 ref.)
Osseointegration. Complications. Prevention, recognition, treatment. Berman CL. Dent Clin North Am 1989 Oct; 33(4):635–63
Implants and infections with special reference to oral bacteria. Haanaes HR. J Clin Periodontol 1990 Aug;17(7 (Pt 2)):516–24 (38 ref.)
Maxillary sinusitis from dental osseointegrated implants. Quiney RE, et al. J Laryngol Otol 1990 Apr;104(4):333–4
Correlation between clinical and histological evaluations of the peri-implant gingiva around the single-crystal sapphire endosseous implant. Akagawa Y, et al. J Oral Rehabil 1989 Nov;16(6):581–7
Complications with osseointegrated implants. Sones AD. J Prosthet Dent 1989 Nov;62(5):581–5
Displacement of a root form implant into the mandibular canal. Theisen FC, et al. Oral Surg Oral Med Oral Pathol 1990 Jul;70(1):24–8

ECONOMICS

Dental implants and third party carrier coverage. Parker HM, et al. Dent Clin North Am 1989 Oct;33(4):905–9

VETERINARY

[Comparative study of two different types of dental implants in dogs. Experimental study] Sanromán F, et al. Zentralbl Veterinarmed [A] 1990 Mar;37(2):138–47 (Eng. Abstr.) (Spa)

DENTAL IMPRESSION MATERIALS

see related

SILICONE ELASTOMERS

Dimensional change of impressions on sterilization. Chia WK, et al. Aust Dent J 1990 Feb;35(1):23–6
'The effect of latex gloves on setting time of vinyl polysiloxane putty impression material' [letter] Burke FJ, et al. Br Dent J 1989 Sep 9;167(5):158
Dimensional stability of reversible hydrocolloid impressions immersed in selected disinfectant solutions. Merchant VA, et al. J Am Dent Assoc 1989 Oct;119(4):533–5
Effects of a solution of a succinic aldehyde on elastomeric impressions. McCormick RJ, et al. J Dent 1989 Oct; 17(5):246–9
Onset of elasticity in setting elastomers. McCabe JF, et al. J Dent Res 1990 Sep;69(9):1573–5
Rheological properties of elastomers during setting. McCabe JF, et al. J Dent Res 1989 Aug;68(8):1218–22
Consistency, working time and setting time of elastomeric impression materials. Jamani KD, et al. J Oral Rehabil 1989 Jul;16(4):353–66
Properties of a new polyether urethane dimethacrylate photoinitiated elastomeric impression material. Craig RG, et al. J Prosthet Dent 1990 Jan;63(1):16–20
The effect of immersion disinfection of elastomeric impressions on the surface detail reproduction of improved gypsum casts. Drennon DG, et al. J Prosthet Dent 1990 Feb;63(2):233–41
The accuracy and efficacy of disinfection by spray atomization on elastomeric impressions. Drennon DG, et al. J Prosthet Dent 1989 Oct;62(4):468–75
Using a tooth-reduction guide for modifying natural teeth. Gardner LK, et al. J Prosthet Dent 1990 Jun;63(6):637–9
Using vinyl polysiloxane in the altered cast procedure for speech-aid prostheses. Gardner LK, et al. J Prosthet Dent 1990 Jan;63(1):62–4
Modification of immediate denture sectional impression technique using vinyl polysiloxane. Gardner LK, et al. J Prosthet Dent 1990 Aug;64(2):182–4
The effect of tray selection on the accuracy of elastomeric impression materials. Gordon GE, et al. J Prosthet Dent 1990 Jan;63(1):12–5
Interocclusal wax impressions for use in provisional and associated fixed prosthodontic procedures. Hoffman JM, et al. J Prosthet Dent 1989 Oct;62(4):395–400
Matrices in metal ceramics. Kucey BK. J Prosthet Dent 1990 Jan;63(1):32–7
The dimensional stability of elastomeric impression materials following disinfection. Langenwalter EM, et al. J Prosthet Dent 1990 Mar;63(3):270–6
Preliminary results from disinfection of irreversible hydrocolloid impressions. Look JO, et al. J Prosthet Dent 1990 Jun;63(6):701–7
Effects of disinfectants on dimensional accuracy of impression materials. Matyas J, et al. J Prosthet Dent 1990 Jul;64(1):25–31
An experimental study on the influence of the derived casts on the accuracy of different recording materials. Part II: Polyether, acrylic resin, and corrected wax wafer. Müller J, et al. J Prosthet Dent 1990 Apr;63(4):389–95
Study of the accuracy of different recording materials. Müller J, et al. J Prosthet Dent 1990 Jan;63(1):41–6
An experimental study on the influence of the derived casts on the accuracy of different recording materials. Part I: Plaster, impression compound, and wax. Müller J, et al. J Prosthet Dent 1990 Mar;63(3):263–9
Control of polymerization in the dispensing cartridge of automixing impression systems. Netti CA, et al.

J Prosthet Dent 1990 Jul;64(1):16–7
Effect of disinfectant solutions on the wettability of elastomeric impression materials. Pratten DH, et al. J Prosthet Dent 1990 Feb;63(2):223–7
The tear resistance of various impression materials with and without modifiers. Tam LE, et al. J Prosthet Dent 1990 Mar;63(3):282–5
An effect of tray design and material retention on the linear dimensional changes in polysulfide impressions. Walters RA, et al. J Prosthet Dent 1990 Mar;63(3):277–81
Effect of disinfecting solutions on surface texture of alginate and elastomeric impressions. Peutzfeldt A, et al. Scand J Dent Res 1990 Feb;98(1):74–81
Accuracy of alginate and elastomeric impression materials. Peutzfeldt A, et al. Scand J Dent Res 1989 Aug;97(4):375–9
Effect of disinfecting solutions on accuracy of alginate and elastomeric impressions. Peutzfeldt A, et al. Scand J Dent Res 1989 Oct;97(5):470–5

ADVERSE EFFECTS

Guinea pig maximization test with a polyether impression material. Hensten-Pettersen A, et al. Scand J Dent Res 1990 Aug;98(4):356–62

PHARMACOLOGY

[The antimicrobial effect of an alginate with an antiseptic admixture] Setz J, et al. Schweiz Monatsschr Zahnmed 1989; 99(7):787–90 (Eng. Abstr.) (Ger)
[Dimensional stability of impression materials studied with Talysurf 10] Palano D, et al. Minerva Stomatol 1989 Dec; 38(12):1289–311 (Eng. Abstr.) (Ita)

STANDARDS

Vinyl polysiloxane impression materials: a status report. Council on Dental Materials, Instruments, and Equipment. J Am Dent Assoc 1990 May;120(5):595–6, 598, 600

THERAPEUTIC USE

Skin grafting in severely contracted socket with the use of 'Compo'. Betharia SM, et al. Indian J Ophthalmol 1990 Apr–Jun;38(2):88–91

DENTAL IMPRESSION TECHNIC

Live primates and dental replication: new problems and new techniques. Teaford MF, et al. Am J Phys Anthropol 1989 Sep;80(1):73–81 (47 ref.)
Simple orthodontic procedures can be safely performed on sick newborn babies. Ash SP, et al. Eur J Orthod 1989 Nov;11(4):414–5
Dimensional stability of reversible hydrocolloid impressions immersed in selected disinfectant solutions. Merchant VA, et al. J Am Dent Assoc 1989 Oct;119(4):533–5
Modification of immediate denture sectional impression technique using vinyl polysiloxane. Gardner LK, et al. J Prosthet Dent 1990 Aug;64(2):182–4
Interocclusal wax impressions for use in provisional and associated fixed prosthodontic procedures. Hoffman JM, et al. J Prosthet Dent 1989 Oct;62(4):395–400
A boxing technique for irreversible hydrocolloid impressions. Machnee CH, et al. J Prosthet Dent 1989 Nov;62(5):610–2
The presence and identification of organisms transmitted to dental laboratories. Powell GL, et al. J Prosthet Dent 1990 Aug;64(2):235–7
The laminar impression technique. Schoenrock GA. J Prosthet Dent 1989 Oct;62(4):392–5
An evaluation of impression techniques for osseointegrated implants. Spector MR, et al. J Prosthet Dent 1990 Apr; 63(4):444–7
An efficient method to make surgical templates for immediate dentures. Withrow G, et al. J Prosthet Dent 1990 Mar; 63(3):363–4
[Impression method in patients with maxillo–facial loss with reduction of the degree of oral opening] Pera P, et al. Minerva Stomatol 1989 Aug;38(8):883–6 (Eng. Abstr.) (Ita)

INSTRUMENTATION

The dimensional stability of self–disinfecting alginate impressions compared to various immersion regimes. Jones ML, et al. Angle Orthod 1990 Summer;60(2):123–8
An impression tray hanger for disinfection. Agar JR, et al. J Prosthet Dent 1990 May;63(5):597–9
The effect of tray selection on the accuracy of elastomeric impression materials. Gordon GE, et al. J Prosthet Dent 1990 Jan;63(1):12–5
The effect of a custom edentulous impression tray on lingual sulcus depth. Jooste CH, et al. J Prosthet Dent 1989 Dec; 62(6):646–51
An effect of tray design and material retention on the linear dimensional changes in polysulfide impressions. Walters RA, et al. J Prosthet Dent 1990 Mar;63(3):277–81
Biteblock–head immobilizer system. Nelson TJ, et al. Med Instrum 1989 Sep;14(3):147–51

DENTAL INLAYS see INLAYS

DENTAL INSTRUMENTS

An evaluation by scanning electron microscopy of small dental cutting instruments through use and cleaning. Lester KS, et al. Aust Dent J 1990 Feb;35(1):1–13
Modified Boley gauge for use as a reference plane in orthognathic surgery. Henry CH. J Oral Maxillofac Surg 1990 May;48(5):535–9
Modification of a crown remover. Gallin DM. J Prosthet Dent 1990 Mar;63(3):364–5
A matrix technique for restoring occlusolingual cavity preparations. O'Hara JW Jr. J Prosthet Dent 1990 Jan; 63(1):111
A procedure to sterilize dental burs with dry heat. Schutt RW. J Prosthet Dent 1990 Feb;63(2):246
Air–line explosions and low–flying drills [letter] Suresh D. Lancet 1990 Feb 3;335(8684):290
Fabrication of an expedient retrofill amalgam carrier. Bodai CF. Milit Med 1989 Sep;154(9):437–8
[Complications in the disinfection and sterilization of dental instruments and the clinical significance] Xiong Z. Chung Hua Hu Li Tsa Chih 1990 May;25(5):244–5 (11 ref.) (Chi)
[Probing and caries diagnosis. Is the explorer for caries diagnosis still useful?] Imfeld T, et al. Schweiz Monatsschr Zahnmed 1990;100(7):872–6 (Ger, Fre)
[Control of infection in the odontostomatologic field. Possibility of decontamination of critical surfaces] Sebastiani Annicchiarico L, et al. Ann Ig 1989 Sep–Oct; 1(5):1145–56 (Eng. Abstr.) (Ita)
[Instruments and technics for removing the restorations in fixed prostheses. a bibliographic analysis] Corrias M, et al. Minerva Stomatol 1990 Feb;39(2):139–43 (18 ref.) (Ita)
[A small–scale ultrasonic device for pre–sterilization treatment of dental instruments] Dmitrieva NA, et al. Med Tekh 1990 May–Jun;(3):44–6 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

'Needlestick injuries to dental staff' [letter; comment] Br Dent J 1989 Nov 25;167(10):332–3 Comment on: Br Dent J 1989 Oct 21;167(8):265–6.
Hazards of the rubber dam [see comments] Neiburger EJ. N Y State Dent J 1990 Jan;56(1):22–4 Comment in: N Y State Dent J 1990 Apr;56(4):12, 14–5.

HISTORY

The birth of the bur (and how a Canadian changed it all!). Crawford PR. Can Dent Assoc J 1990 Feb;56(2):123–6
Dentistry on stamps. Loevy HT, et al. J Am Dent Assoc 1989 Dec;119(6):698

STANDARDS

The Australian Dental Association product recognition programmes. Tyas MJ. Aust Dent J 1989 Dec;34(6):579–80
'Oral surgical instruments' [letter; comment] Muller EO. Br Dent J 1990 Feb 10;168(3):95 Comment on: Br Dent J 1989 Dec 9–23;167(11):370.

DENTAL LEAKAGE

Effect of substrate age on microleakage of dentine adhesive agents. Crim GA. J Oral Rehabil 1989 Nov;16(6):555–7
Etched glass ionomer liners: surface properties and interfacial profile with composite resins. Papagiannoulis L, et al. J Oral Rehabil 1990 Jan;17(1):25–36
Leakage of chemical and light–cured basing materials. Chan KC, et al. J Prosthet Dent 1989 Oct;62(4):408–11
Microleakage of mixed Class–V restorations placed with GIC–bases or dentin bonding agents. Prati C, et al. Schweiz Monatsschr Zahnmed 1989;99(10):1117–21

DIAGNOSIS

In vitro marginal microleakage: examination of measurements used in assessment. Youngson CC, et al. J Dent 1990 Jun; 18(3):142–6
Microleakage of extended and nonextended Class I composite resin and sealant restorations. Penning C, et al. J Prosthet Dent 1990 Aug;64(2):131–4
Microleakage in fissures sealed with resin or glass ionomer cement. Övrebö RC, et al. Scand J Dent Res 1990 Feb; 98(1):66–9

PATHOLOGY

[Scanning electron microscopy studies of the marginal finish conditions of tooth neck ceramic inlays treated with a silane coupling agents and bonded with a composite] Meissner M, et al. Zahn Mund Kieferheilkd 1989;77(6):543–8 (Eng. Abstr.) (Ger)

PREVENTION & CONTROL

Human pulp reactions to resin restorations performed with different acid–etch restorative procedures. Qvist V, et al. Acta Odontol Scand 1989 Oct;47(5):253–63
The efficacy of four root canal obturation techniques in preventing apical dye penetration. Beatty RG, et al. J Am Dent Assoc 1989 Nov;119(5):633–7
Reduction of microleakage around new amalgam restorations. Ben–Amar A. J Am Dent Assoc 1989 Dec; 119(6):725–8 (77 ref.)
Microleakage in restorations with glass ionomer liners after thermocycling. Arcoria CJ, et al. J Dent 1990 Apr; 18(2):107–12
Long–term use of dentine adhesive as an interfacial sealer under Class II amalgam restorations. Ben–Amar A, et al. J Oral Rehabil 1990 Jan;17(1):37–42
Reducing marginal leakage of posterior composite resin restorations: a review of clinical techniques. Cheung GS. J Prosthet Dent 1990 Mar;63(3):286–8 (41 ref.)
A lining system for composite resin fillings. Derand T. J Prosthet Dent 1990 Feb;63(2):134–7
Marginal leakage in class V composite resin restorations with glass ionomer liners in vitro. Mathis RS, et al. J Prosthet Dent 1990 May;63(5):522–5
Evaluation of potassium oxalate as a cavity liner. Sandoval VA, et al. J Prosthet Dent 1989 Sep;62(3):283–7
Sealing ability of intermediate restorations and cavity design used in endodontics. Barkhordar RA, et al. Oral Surg Oral Med Oral Pathol 1990 Jan;69(1):99–101
Factors influencing the sealing behavior of retrograde amalgam fillings. Nelson LW, et al. Oral Surg Oral Med Oral Pathol 1990 Mar;69(3):356–60

DENTAL MATERIALS

see related
BONDING, DENTAL

Comparison of three techniques for measuring wear of dental restorations. Roberts MJ, et al. Acta Odontol Scand 1989 Dec;47(6):367–74
Effect of humidity on calcium sulphate hemihydrate. Torrance A, et al. Aust Dent J 1990 Jun;35(3):230–5
Developments in light–cure lining materials. Tyas MJ. Aust Dent J 1989 Dec;34(6):578
Dynamic mechanical thermal analysis of dental polymers. III. Heterocyclic methacrylates. Clarke RL. Biomaterials 1989 Nov;10(9):630–3
Dynamic mechanical thermal analysis of dental polymers. I. Heat–cured poly(methyl methacrylate)–based materials. Clarke RL. Biomaterials 1989 Sep;10(7):494–8
Effect of temperature and ageing on the mechanical properties of dental polymeric composite materials. Kandil SH, et al. Biomaterials 1989 Oct;10(8):540–4
'Friends of the FDI' [editorial] Br Dent J 1989 Oct 21; 167(8):255
Alternatives for the restoration of posterior teeth. Christensen GJ. Int Dent J 1989 Sep;39(3):155–61 (5 ref.)
Cyanoacrylates in dentistry: a review of the literature. Herod EL. J Can Dent Assoc 1990 Apr;56(4):331–4 (49 ref.)
Dental materials: 1988 literature review. van Noort R, et al. J Dent 1990 Feb;18(1):5–23 (212 ref.)
Long–term use of dentine adhesive as an interfacial sealer under Class II amalgam restorations. Ben–Amar A, et al. J Oral Rehabil 1990 Jan;17(1):37–42
Clinical implications of resilient denture lining material research. Part I: Flexibility and elasticity. Graham BS, et al. J Prosthet Dent 1989 Oct;62(4):421–8
An evaluation of the surface characteristics of a facial prosthetic elastomer. Part I: Review of the literature on the surface characteristics of dental materials with maxillofacial prosthetic application. Veres EM, et al. J Prosthet Dent 1990 Feb;63(2):193–7 (40 ref.)
Fracture toughness and fractography of dental cements, lining, build–up, and filling materials. Mueller HJ. Scanning Microsc 1990 Jun;4(2):297–307
Microleakage of mixed Class–V restorations placed with GIC–bases or dentin bonding agents. Prati C, et al. Schweiz Monatsschr Zahnmed 1989;99(10):1117–21
Surface changes on dental materials. The influence of two different dentifrices on surface roughness measured by laser reflexion and profilometer techniques. Johannsen G, et al. Swed Dent J 1989;13(6):267–76
[Porosity, microhardness, roughness and internal stresses of PMMA base materials depending on the isolation method. 2. Roughness and internal stresses] Lockowandt P, et al. Zahn Mund Kieferheilkd 1989;77(8):795–800 (Eng. Abstr.) (Ger)
[The porosity, microhardness, roughness and internal stresses of PMMA base materials in relation to their isolation. 1. Porosity and microhardness] Lockowandt P, et al. Zahn Mund Kieferheilkd 1989;77(7):686–91 (Eng. Abstr.) (Ger)

ADVERSE EFFECTS

Contact dermatitis due to a natural plasticine. Tosti A, et al. Contact Dermatitis 1990 May;22(5):301–2
Studies on contact dermatitis in stomatological staff. Berova N, et al. Dermatol Monatsschr 1990;176(1):15–8
Side–effects of amalgam and its alternatives: local, systemic and environmental. Bergman M. Int Dent J 1990 Feb; 40(1):4–10 (58 ref.)
Foreign body gingivitis: an iatrogenic disease? Daley TD, et al. Oral Surg Oral Med Oral Pathol 1990 Jun; 69(6):708–12
[Oral lichen planus and dental materials. Etiopathogenetic and clinical relations] Dante G, et al. Minerva Stomatol 1989 Jul;38(7):807–10 (Eng. Abstr.) (Ita)
[Indices of free–radical oxidation of the saliva in subjects wearing dentures made of various materials under ordinary conditions and in the presence of industrial hazards] Sedunov AA, et al. Stomatologiia (Mosk) 1990 Jan–Feb; 69(1):52–4 (Eng. Abstr.) (Rus)

ANALYSIS

Dynamic mechanical thermal analysis of dental polymers. II. Bis-phenol A-related resins. Clarke RL. **Biomaterials** 1989 Oct;10(8):549-52

Cloning of mercury-resistance gene from R-plasmid in Escherichia coli isolated from dental hospital sewage. Arii H, et al. **Gen Pharmacol** 1989;20(5):609-14

A preliminary report: proximal facet analysis and the recovery of trace restorative materials from unrestored teeth. Smith BC. **J Forensic Sci** 1990 Jul;35(4):873-80

PHARMACOLOGY

[Substitute model of an in-vitro biological trials. I. Standardized method using human pulp cells] Christen O, et al. **J Biol Buccale** 1989 Dec;17(4):275-84 (Eng. Abstr.) (Fre)

[Substitute model for in-vitro biological testing. II. Quantitative evaluation of the biocompatibility of dental products] Regad C, et al. **J Biol Buccale** 1989 Dec; 17(4):285-95 (Eng. Abstr.) (Fre)

[SDS electrophoretic evaluation of salivary protein adsorption to different dental materials] Scholtissek J, et al. **Zahn Mund Kieferheilkd** 1989;77(8):790-4 (Eng. Abstr.) (Ger)

[Possibilities of testing the biological acceptability of composite filling materials, with special reference to the microscopic test for pulp vitality. Review of the literature] Nyárasdy I. **Fogorv Sz** 1990 Aug;83(8):247-52 (Eng. Abstr.) (Hun)

[Assessment of the biological properties of composite filling materials: determination of indices of their hemolytic activity and cytotoxicity] Chechina GN, et al. **Stomatologiia (Mosk)** 1990 Mar-Apr;69(2):9-12 (Eng. Abstr.) (Rus)

[The effect of calcium glycerophosphate and Remodent on the dental enamel permeability in dogs with fluorosis] Nikolishin AK. **Stomatologiia (Mosk)** 1990 Jan-Feb; 69(1):11-3 (Eng. Abstr.) (Rus)

STANDARDS

The Australian Dental Association product recognition programmes. Tyas MJ. **Aust Dent J** 1989 Dec;34(6):579-80

Standards in dentistry [letter] Knott NJ. **Br Dent J** 1990 Jan 6;168(1):6-7

Good manufacturing practices, including quality assurance for dental materials. Report to General Assembly, Fédération Dentaire Internationale. **Int Dent J** 1990 Aug; 40(4):253-6

SUPPLY & DISTRIBUTION

'Visit to Poland' [letter] Dixon DA. **Br Dent J** 1989 Sep 9;167(5):158

Dental materials in Papua New Guinea: a survey of dental clinics. Stewart BL, et al. **P N G Med J** 1990 Mar; 33(1):29-35

THERAPEUTIC USE

Healing of primate dental pulps capped with Teflon. Heys DR, et al. **Oral Surg Oral Med Oral Pathol** 1990 Feb; 69(2):227-37

[Infected cecostomy treated with Riebler's dental paste] Bogacki J, et al. **Wiad Lek** 1989 Aug 15-Sep 15; 42(16-18):980-2 (Eng. Abstr.) (Pol)

TOXICITY

Keeping the pulp alive: the pharmacology and toxicology of agents applied to dentine. Hume WR, et al. **Aust Dent J** 1990 Feb;35(1):32-7 (27 ref.)

The use of cultures of human osteoblastlike cells as an in vitro test system for dental materials. Lang H, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):606-11

Experimental oral foreign body reactions. Commonly employed dental materials. Stewart CM, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):713-9

[Magnets used in dentistry. Preliminary data on in vitro biocompatibility] Gonella AM, et al. **Minerva Stomatol** 1989 Oct;38(10):1053-8 (Eng. Abstr.) (Ita)

DENTAL MEDICAID PROGRAM see **MEDICAL ASSISTANCE, TITLE 19**

DENTAL MODELS

Clinical acceptability of orthodontic retainers fabricated from stored alginate impressions. Douglass JB, et al. **Am J Orthod Dentofacial Orthop** 1990 Feb;97(2):93-7

Holograms as substitutes for orthodontic study casts: a pilot clinical trial. Harradine N, et al. **Am J Orthod Dentofacial Orthop** 1990 Aug;98(2):110-6

A model for teaching periodontal surgery. Hemmings KW, et al. **Br Dent J** 1990 May 19;168(10):401-2

A 'mini-typodont' for removable appliance teaching. Jones ML, et al. **Br J Orthod** 1989 Nov;16(4):277-9

Method for constructing standardized simulated root canals. Schulz-Bongert U, et al. **J Dent Educ** 1990 Jun; 54(6):328-30

Evaluation of the cutting behavior of a glass-ceramic typodont tooth. Taira M, et al. **J Dent Educ** 1990 Apr; 54(4):244-7

A uniform recording method for surgical workup on study models. Crutchfield WE 2d, et al. **J Oral Maxillofac Surg** 1989 Dec;47(12):1342-3

Modified Boley gauge for use as a reference plane in orthognathic surgery. Henry CH. **J Oral Maxillofac Surg** 1990 May;48(5):535-9

An easy method to protect markings on dental casts. Komyati SE. **J Prosthet Dent** 1989 Sep;62(3):364

An experimental study on the influence of the derived casts on the accuracy of different recording materials. Part I: Plaster, impression compound, and wax. Müller J, et al. **J Prosthet Dent** 1990 Mar;63(3):263-9

Occlusal accuracy of casts made and articulated differently. Peregrina A, et al. **J Prosthet Dent** 1990 Apr;63(4):422-5

Bactericidal effect of a disinfectant dental stone on irreversible hydrocolloid impressions and stone casts. Schutt RW. **J Prosthet Dent** 1989 Nov;62(5):605-7

An efficient method to make surgical templates for immediate dentures. Withrow G, et al. **J Prosthet Dent** 1990 Mar; 63(3):363-4

[An in vitro test procedure for evaluating dental restoration systems. 1. A computer-controlled mastication simulator] Krejci I, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(8):953-60 (Eng. Abstr.) (Ger)

[The use of mathematical modelling in improving the orthodontic treatment of end defects of the dental arches] Matveeva AI, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb; 69(1):48-52 (Eng. Abstr.) (Rus)

[The results of the use of porcelain crowns prepared on refractory models] Perzashkevich LM, et al. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):56 (Eng. Abstr.) (Rus)

ECONOMICS

A cost-effective method for producing custom dental teaching aids using RTV silicone. Jackson AP. **J Audiov Media Med** 1990 Apr;13(2):53-4

DENTAL OCCLUSION

see related
JAW RELATION RECORD
MALOCCLUSION

The effects on tooth position and maxillofacial vertical growth during treatment of scoliosis with the Milwaukee brace. Alexander RG. **Am J Orthod** 1966 Mar;52(3):161-89

Relation of sex and occlusion to mesiodistal tooth size. Arya BS, et al. **Am J Orthod** 1974 Nov;66(5):479-86 (12 ref.)

An electromyographic investigation of patients with a normal jaw relationship and a Class III jaw relationship. Moss JP, et al. **Am J Orthod** 1974 Nov;66(5):538-56

Pattern commonality in the facial orientation of the occlusal region: form-functional significance and clinical potentiality. Zingeser MR. **Am J Orthod** 1974 Nov; 66(5):516-37 (50 ref.)

Cephalometric comparisons of dentofacial parameters between Egyptian and North American adolescents. Bishara SE, et al. **Am J Orthod Dentofacial Orthop** 1990 May;97(5):413-21

Temporomandibular joint forces measured at the condyle of Macaca arctoides. Boyd RL, et al. **Am J Orthod Dentofacial Orthop** 1990 Jun;97(6):472-9

Normal maxillary and mandibular growth and dentoalveolar development in Macaca mulatta. A longitudinal cephalometric study from 2 to 5 years of age. Nielsen IL, et al. **Am J Orthod Dentofacial Orthop** 1989 Nov; 96(5):405-15

Anterior component of force [letter; comment] Osborn JW. **Am J Orthod Dentofacial Orthop** 1990 May;97(5):24A-25A Comment on: Am J Orthod Dentofacial Orthop 1989 Dec;96(6):493-500.

Surgical orthodontic correction of mandibular deficiency by sagittal osteotomy: clinical and cephalometric analysis of 1-year data. Phillips C, et al. **Am J Orthod Dentofacial Orthop** 1989 Dec;96(6):501-6

The anterior component of occlusal force. Part 2. Relationship with dental malalignment. Southard TE, et al. **Am J Orthod Dentofacial Orthop** 1990 Jan;97(1):41-4

The anterior component of occlusal force. Part 1. Measurement and distribution [see comments] Southard TE, et al. **Am J Orthod Dentofacial Orthop** 1989 Dec; 96(6):493-500 Comment in: Am J Orthod Dentofacial Orthop 1990 May;97(5):24A-25A.

Concepts of occlusion: Australian evidence. Brown T, et al. **Am J Phys Anthropol** 1990 Jul;82(3):247-56

Occlusal variation in Australian aboriginals. Corruccini RS, et al. **Am J Phys Anthropol** 1990 Jul;82(3):257-65

Canine "honing" in Australopithecus afarensis. Greenfield LO. **Am J Phys Anthropol** 1990 Jun;82(2):135-43

Stereophotogrammetric analysis of occlusal morphology of extant hominoid molars: phenetics and function. Hartman SE. **Am J Phys Anthropol** 1989 Oct;80(2):145-66

The biomechanical congruent system of occlusion. Kubein-Meesenburg D, et al. **Anat Anz** 1989; 169(3):193-201

Effect of occlusal functional forces on incisor socket morphology and location in the rat mandible. Brin I, et al. **Anat Rec** 1990 Mar;226(3):367-72

Jaw relationships and complete dentures. Laird WR. **Ann Acad Med Singapore** 1989 Sep;18(5):564-8 (35 ref.)

The relationship between masseter force and masseter electromyogram during mastication in the monkey Macaca fascicularis. Hylander WL, et al. **Arch Oral Biol** 1989; 34(9):713-22

Surface electromyography, force and single motor-unit data for inhibitory reflex responses in human masseter at two levels of excitatory drive. Türker KS, et al. **Arch Oral Biol** 1989;34(9):731-7

Controversies in occlusion. Chasens AI. **Dent Clin North Am** 1990 Jan;34(1):111-23 (40 ref.)

Malocclusion. Denbo JA. **Dent Clin North Am** 1990 Jan; 34(1):103-9

Changes in occlusion and condylar positioning during retention with a gnathologic positioner. Droschl H, et al. **Eur J Orthod** 1989 Aug;11(3):221-7 (11 ref.)

Changes in maximum bite force related to extension of the head. Hellsing E, et al. **Eur J Orthod** 1990 May; 12(2):148-53

Interactions between jaw-muscle recruitment and jaw-joint forces in Canis familiaris. Dessem D. **J Anat** 1989 Jun; 164:101-21

Coactivation of jaw muscles: recruitment order and level as a function of bite force direction and magnitude. Van Eijden TM, et al. **J Biomech** 1990;23(5):475-85

Soft occlusal splint therapy in the treatment of migraine and other headaches. Quayle AA, et al. **J Dent** 1990 Jun; 18(3):123-9

A three-dimensional evaluation of the effects of functional occlusal forces on the morphology of dental and periodontal tissues of the rat incisor. Steigman S, et al. **J Dent Res** 1989 Aug;68(8):1269-74

Jaw muscle activity in relation to the direction and point of application of bite force. Van Eijden TM. **J Dent Res** 1990 Mar;69(3):901-5

Comparison of jaw-muscle bite-force cross-sections obtained by means of magnetic resonance imaging and high-resolution CT scanning. van Spronsen PH, et al. **J Dent Res** 1989 Dec;68(12):1765-70

Textural properties of food used in studies of mastication. Wang JS, et al. **J Dent Res** 1990 Sep;69(9):1546-50

Distribution of movement-related cortical potential upon jaw-biting in humans. Tanaka Y, et al. **J Nihon Univ Sch Dent** 1989 Sep;31(3):518-25

Human bite force discrimination using specific maxillary and mandibular teeth. Coffey JP, et al. **J Oral Rehabil** 1989 Nov;16(6):529-36

Preliminary studies of mandibular movement at initial tooth contact. Faulkner KD. **J Oral Rehabil** 1989 Jul; 16(4):395-400

Custom-made condylar inserts for repositioning casts in articulators. Allen JD, et al. **J Prosthet Dent** 1990 Jul; 64(1):111-5

Various methods in achieving anterior guidance. Ehrlich J, et al. **J Prosthet Dent** 1989 Nov;62(5):505-9

Effects of comparative jaw size on mandibular movement and occlusion. Jensen WO. **J Prosthet Dent** 1990 Aug; 64(2):174-9

Remount casts for removable partial dentures made in a laboratory. Jordan RD, et al. **J Prosthet Dent** 1989 Sep; 62(3):360-2

Effect of bilateral asymmetric tooth clenching on load distribution at the mandibular condyles. Korioth TW, et al. **J Prosthet Dent** 1990 Jul;64(1):62-73

Biting strength and chewing forces in complete denture wearers. Michael CG, et al. **J Prosthet Dent** 1990 May; 63(5):549-53

Orientation of the plane of occlusion. Ow RK, et al. **J Prosthet Dent** 1990 Jul;64(1):31-6

Evaluation of the relationship between anterior and posterior functionally disclusive angles. Part I: Literature review, instrumentation, and reproducibility. Pelletier LB, et al. **J Prosthet Dent** 1990 Apr;63(4):395-403 (22 ref.)

Evaluation of the relationship between anterior and posterior functionally disclusive angles. Part II: Study of a population. Pelletier LB, et al. **J Prosthet Dent** 1990 May; 63(5):536-40

Reaction of mastication to occlusal changes induced by correction of mandibular prognathism. Proschel PA, et al. **J Prosthet Dent** 1990 Aug;64(2):211-8

Proportionality of mean voltage of masseter muscle to maximum bite force applied for diagnosing temporomandibular joint disturbance syndrome. Shi CS. **J Prosthet Dent** 1989 Dec;62(6):682-4

A new technique for making occlusal devices. Shulman J, et al. **J Prosthet Dent** 1990 Apr;63(4):482-5

Muscle activity patterns and control of temporomandibular joint loads. Throckmorton GS, et al. **J Prosthet Dent** 1990 Jun;63(6):685-95

Neuromuscular occlusion: concept and application. Cooper BC. **N Y State Dent J** 1990 Apr;56(4):24-8 (14 ref.)

Neuromuscular analysis in orthodontics. Shipley WT. **N Y State Dent J** 1990 Apr;56(4):34-6

Computerized mandibular scanner evaluation following osteotomy surgery. Stern NS. **N Y State Dent J** 1990 Apr; 56(4):38-9

On the concept of neuromuscular occlusion [editorial] Tillis BP. **N Y State Dent J** 1990 Apr;56(4):5

Occlusal bonding for long-term neuromuscular occlusion. Yamashita A, et al. **N Y State Dent J** 1990 Apr;56(4):31-3

Treatment of reciprocal clicking of the temporomandibular joint with a repositioning appliance and occlusal adjustment—results after four and six years. Le Bell Y, et al. **Proc Finn Dent Soc** 1990;86(1):15-21

Blood-flow and metabolic response in a contracting canine masticatory muscle. Ström D, et al.

Proc Finn Dent Soc 1989;85(4–5):251–60
Unilateral, isometric bite force in 8–68–year–old women and men related to occlusal factors. Bakke M, et al. Scand J Dent Res 1990 Apr;98(2):149–58
Clinical significance of isometric bite force versus electrical activity in temporal and masseter muscles. Bakke M, et al. Scand J Dent Res 1989 Dec;97(6):539–51
Immediate electromyographic response in masseter and temporal muscles to bite plates and stabilization splints. Dahlström L, et al. Scand J Dent Res 1989 Dec;97(6):533–8
Muscular tenderness evaluated by surface EMG frequency analysis of isometric contractions. Hagberg C, et al. Scand J Dent Res 1989 Aug;97(4):368–74
Short–term and long–term effects of chewing training on occlusal perception of thickness. Kiliaridis S, et al. Scand J Dent Res 1990 Apr;98(2):159–66
On occlusal forces in dentitions with implant–supported fixed cantilever prostheses. Falk H. Swed Dent J Suppl 1990; 69:1–40
[Survey and analysis of the normal deciduous teeth arch in children 3 and 4 years of age] Shi SZ. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Nov; 24(6):359–62, 386 (Eng. Abstr.) (Chi)
[Cephalometric study using P–A radiographs of normal occlusion in Beijing] Yu XH. Chung Hua Kou Chiang Hsueh Tsa Chih 1990 Jan; 25(1):38–41 (Chi)
[Pone's index of the Han population with normal occlusion in Nanjing] Zhang SC. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Mar; 24(2):115–7 (Chi)
[The aging progression of the adult occlusal plan observed through 10 French standards constructed in the mid–Pyrenees] Cretot M. Orthod Fr 1988;59 Pt 2:531–8 (Eng. Abstr.) (Fre)
[The molar bite plane and the sagittal maxillo–mandibular skeletal shift] Crocquet M, et al. Orthod Fr 1988;59 Pt 2:441–8 (Eng. Abstr.) (Fre)
[Modelling of the displacement of the occlusal plane in multi–bracket therapy] Faure J, et al. Orthod Fr 1988;59 Pt 2:539–46 (Eng. Abstr.) (Fre)
[Occlusal analysis in everyday practice assisted by a computer] Ghouzi–Duval J. Orthod Fr 1988;59 Pt 2:647–66 (Eng. Abstr.) (Fre)
[The occlusal plane in Class I and Class II malocclusion: its relation to craniofacial variables] Kuntz M, et al. Orthod Fr 1988;59 Pt 2:383–93 (14 ref.) (Eng. Abstr.) (Fre)
[The occlusal plane, extraction of the 6th year teeth and the Begg technic] Mathis O, et al. Orthod Fr 1988;59 Pt 2:343–9 (13 ref.) (Eng. Abstr.) (Fre)
[The occlusal plane] Mauran G, et al. Orthod Fr 1988;59 Pt 2:293–335 (Fre)
[Morphologic and functional factors taken into consideration for the orientation of the occlusal plane in the preparation of the Ricketts VTO] Senior WB. Orthod Fr 1988;59 Pt 2:337–42 (Fre)
[A comparative study of the effect of 3 treatment technics on the occlusal plane] Stromboni Y, et al. Orthod Fr 1988; 59 Pt 2:357–64 (Eng. Abstr.) (Fre)
[Occlusal movement and occlusal contacts] Woda A. Orthod Fr 1986;57 Pt 2:501–7 (20 ref.) (Eng. Abstr.) (Fre)
[Standard measurements, elasticity values and tensile strength behavior of the human mandible, a contribution to the biomechanics of the mandible—I] Arendts FJ, et al. Biomed Tech (Berlin) 1989 Oct;34(10):248–55 (Eng. Abstr.) (Ger)
[Mechanical characteristics of the human mandible and study of in vivo behavior of compact bone tissue, a contribution to the description of biomechanics of the mandible—II] Arendts FJ, et al. Biomed Tech (Berlin) 1990 Jun; 35(6):123–30 (Eng. Abstr.) (Ger)
[The head–chin cap—a functional risk?] Gavakos K, et al. Fortschr Kieferorthop 1989 Aug;50(4):268–75 (Eng. Abstr.) (Ger)
[Findings in the main developmental stages of the bite in dysgnathic patients] Schenk HJ, et al. Fortschr Kieferorthop 1989 Oct;50(5):482–91 (Eng. Abstr.) (Ger)
[Variation of the terminal hinge axial position in different methods of registration] Utz KH, et al. Schweiz Monatsschr Zahnmed 1990;100(4):412–9 (Eng. Abstr.) (Ger)
[Metrical studies of the soft–tissue behavior in the anterior dental arch in correct and prognathic anterior occlusion] Bookhold P, et al. Zahn Mund Kieferheilkd 1989; 77(8):801–6 (Eng. Abstr.) (Ger)
[Dental occlusion and temporomandibular involvement in rheumatic pathology] Capurso U. Minerva Stomatol 1990 Apr;39(4):327–35 (Eng. Abstr.) (Ita)
[Effects of positions of experimental premature contacts on jaw function] Koibuchi H. Kokubyo Gakkai Zasshi 1990 Mar;57(1):165–86 (Eng. Abstr.) (Jpn)
[Dental anthropological study of the Central American Indians] Miura F, et al. Kokubyo Gakkai Zasshi 1989 Sep; 56(3):409–28 (Eng. Abstr.) (Jpn)
[Study of masticatory forces of complete denture wearers] Watanabe T. Kokubyo Gakkai Zasshi 1990 Mar;57(1):16–31 (Eng. Abstr.) (Jpn)
[Equipment for measuring dental bite force (gnathodynamometers] Gutkin VI, et al. Med Tekh 1990 Mar–Apr;(2):17–21 (Eng. Abstr.) (Rus)
[Relation of parameters of the dental arches and the temporomandibular joints in intact orthognathic bite] Parilov VV, et al. Stomatologiia (Mosk) 1990 Mar–Apr; 69(2):55–7 (Eng. Abstr.) (Rus)
[Masticatory function in children with orthognathic bite] Popova OI, et al. Stomatologiia (Mosk) 1990 May–Jun; 69(3):76–8 (Eng. Abstr.) (Rus)

DENTAL OCCLUSION, BALANCED

Interproximal stripping [letter] Valinoti JR. Am J Orthod 1974 Nov;66(5):577–8
Occlusal adjustment. Oles RD. J Can Dent Assoc 1990 Jun; 56(6):527–31 (48 ref.)
The immediate effects of a stabilization splint on the muscular symmetry in the masseter and anterior temporal muscles of patients with a craniomandibular disorder. Humsi AN, et al. J Prosthet Dent 1989 Sep;62(3):339–43
Treatment of myofascial pain–dysfunction syndrome with occlusal equilibration. Kerstein RB, et al. J Prosthet Dent 1990 Jun;63(6):695–700
Treatment of reciprocal clicking of the temporomandibular joint with a repositioning appliance and occlusal adjustment—results after four and six years. Le Bell Y, et al. Proc Finn Dent Soc 1990;86(1):15–21
Longitudinal study on the effect of early interceptive treatment in 4–year–old children with unilateral cross–bite. Lindner A. Scand J Dent Res 1989 Oct;97(5):432–8
[Distinction between pathological and non–pathological premature contact] Komán J. Fogorv Sz 1989 Oct; 82(10):301–4 (Eng. Abstr.) (Hun)

DENTAL OCCLUSION, CENTRIC

The hinge axis: evaluation of current arbitrary determination methods and a proposal for a new recording method. Abdal–Hadi L. J Prosthet Dent 1989 Oct;62(4):463–7 (22 ref.)
Centric relation and programming semiadjustable articulators with the universal jig. Part I: Technique. Dupas PH, et al. J Prosthet Dent 1990 Aug;64(2):134–8
Number and location of occlusal contacts in intercuspal position. Korioth TW. J Prosthet Dent 1990 Aug; 64(2):206–10
Occlusal tooth contacts in natural normal adult dentition in centric occlusion studied by photocclusion technique. Athanasiou AE, et al. Scand J Dent Res 1989 Oct; 97(5):439–45
[The positioner—a possibility for the fine adjustment of the occlusion objectively assessed by condylar measurements of the discrepancy between the ICP and RCP] Permann I, et al. Fortschr Kieferorthop 1989 Dec;50(6):530–9 (Eng. Abstr.) (Ger)
[The distance between the terminal hinge position and the intercuspation position in the temporomandibular joint area] Utz KH, et al. Schweiz Monatsschr Zahnmed 1990; 100(1):42–9 (Eng. Abstr.) (Ger)
[A method for determining the centric jaw relation taking into account the muscle function of the maxillofacial area] Kostur BK, et al. Stomatologiia (Mosk) 1989 Jul–Aug; 68(4):53–5 (Eng. Abstr.) (Rus)

DENTAL OCCLUSION, TRAUMATIC

COMPLICATIONS

Osteoradionecrosis related to mastication and parafunction. Marunick MT, et al. Oral Surg Oral Med Oral Pathol 1989 Nov;68(5):582–5

DIAGNOSIS

[Functional research methods in the diagnosis of traumatic over– and underloading of the teeth] Sychugova LI, et al. Stomatologiia (Mosk) 1990 Mar–Apr;69(2):53–5 (Eng. Abstr.) (Rus)

METABOLISM

[Carbohydrate–energy metabolism of periodontal bony tissue in the artificial modelling of traumatic occlusion] Shvarts VV. Stomatologiia (Mosk) 1990 Jan–Feb;69(1):17–9 (Eng. Abstr.) (Rus)

PREVENTION & CONTROL

The deep overbite: prevention of trauma. Wragg PF, et al. Br Dent J 1990 May 5;168(9):365–7

DENTAL OFFICES

The efficacy of rubber dam isolation in reducing atmospheric bacterial contamination. Samaranayake LP, et al. ASDC J Dent Child 1989 Nov–Dec;56(6):442–4
A review of current approaches to in–office management of tooth hypersensitivity. Trowbridge HO, et al. Dent Clin North Am 1990 Jul;34(3):561–81 (88 ref.)
Infection control in dental offices [letter] Cottone JA. J Dent Educ 1990 Aug;54(8):498
[Control of infection in the odontostomatologic field. Possibility of decontamination of critical surfaces] Sebastiani Annicchiarico L, et al. Ann Ig 1989 Sep–Oct; 1(5):1145–56 (Eng. Abstr.) (Ita)

STATISTICS & NUMERICAL DATA

An evaluation of radiographic equipment and procedures in 300 dental offices in the United States. Kantor ML, et al. J Am Dent Assoc 1990 May;120(5):547–50

DENTAL PAPILLA see under TOOTH GERM

DENTAL PINS

Auxiliary pin retention for restoring severely worn anterior teeth. Chee WW, et al. J Prosthet Dent 1989 Oct; 62(4):385–90
Comparative study of the retentive strengths of dowels of three different diameters in combination with one or two different–sized threaded pins. Orkin DA, et al. J Prosthet Dent 1990 Feb;63(2):144–50
Retention of threaded pins in amalgam. Podshadley AG. J Prosthet Dent 1990 Jan;63(1):47–51
Cross–pin fixation for fixed partial dentures. Stumpel LJ. J Prosthet Dent 1989 Nov;62(5):503–5
Aluminum oxide ceramic pins for retrograde root filling—experiences with a new system. Keller U. Oral Surg Oral Med Oral Pathol 1990 Jun;69(6):737–42
[Ceramic canal pins] Pizzirani C, et al. Minerva Stomatol 1989 Dec;38(12):1247–51 (Eng. Abstr.) (Ita)
[A polarization–interference method for research on functional stresses in the hard tissues of pathologically worn teeth restored with cast inserts] Balabanovskii RB, et al. Stomatologiia (Mosk) 1989 Sep–Oct;68(5):67–70 (Eng. Abstr.) (Rus)
[The use of the medical glue cyacrin for the fixation of parapulpar pins] Makeev VF, et al. Stomatologiia (Mosk) 1989 Jul–Aug;68(4):76–7 (Rus)
[A biomechanical test of the rigidity of pin fixation in the root canals of human premolars and molars] Pavliuk VM, et al. Stomatologiia (Mosk) 1990 May–Jun;69(3):56–7 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

[The prevention of complications from the use of cast stump pin inserts for the fixation of metal–ceramic dentures] Arutiunov SD. Stomatologiia (Mosk) 1989 Jul–Aug; 68(4):48–50 (Eng. Abstr.) (Rus)

DENTAL PLAQUE

ANALYSIS

Human dental plaque pH, and the organic acid and free amino acid profiles in plaque fluid, after sucrose rinsing. Higham SM, et al. Arch Oral Biol 1989;34(5):329–34
Effect of brushing with fluoride toothpastes on the fluoride, calcium, and inorganic phosphorus concentrations in approximal plaque of young adults. Sidi AD. Caries Res 1989;23(4):268–71
Relationships between the biochemical composition of both free smooth surface and approximal plaque and salivary composition and a 24–hour retrospective dietary history of sugar intake in adolescents. Wilson RF, et al. Caries Res 1990;24(3):203–10
Pharmacokinetics of fluoride in man and its clinical relevance. Ekstrand J, et al. J Dent Res 1990 Feb;69 Spec No:550–5; discussion 556–7 (47 ref.)
Facts and artefacts in research on human dental plaque fluid. Tatevossian A. J Dent Res 1990 Jun;69(6):1309–15 (39 ref.)
Fluoride in dental plaque and its effects. Tatevossian A. J Dent Res 1990 Feb;69 Spec No:645–52; discussion 682–3 (83 ref.)
Micro–analysis of plaque fluid from single–site fasted plaque. Vogel GL, et al. J Dent Res 1990 Jun;69(6):1316–23
A mineral–related feature of young plaque characteristic to periodontitis–affected adults. Sewón L, et al. J Periodontol 1990 Jan;61(1):42–4
[The correlation between the zinc content of dental plaque and the quantitative behavior of caries–inducing plaque streptococci] Dobel P, et al. Zahn Mund Kieferheilkd 1990; 78(1):25–7 (Ger)
[The content of secretory immunoglobulin A in human dental plaque] Göcke R, et al. Zahn Mund Kieferheilkd 1990; 78(2):131–3 (Ger)
[Determination of the level of antibacterial salivary proteins in human dental plaque] Göcke R, et al. Zahn Mund Kieferheilkd 1989;77(5):459–60 (Eng. Abstr.) (Ger)
[3 years' results of the WHO xylitol caries–preventing program in Hungarian children's homes. VI. Changes in the carbohydrate–protein ratio in dental plaque] Kertész P, et al. Fogorv Sz 1988 Feb;81(2):33–7 (Eng. Abstr.) (Hun)

COMPLICATIONS

Relationship of gingival bleeding, gingival suppuration, and supragingival plaque to attachment loss. Kaldahl WB, et al. J Periodontol 1990 Jun;61(6):347–51

DIAGNOSIS

Estimation of dental plaque levels and gingival inflammation using a simple oral rinse technique. Tal H, et al. J Periodontol 1990 Jun;61(6):339–42
An innovative method of monitoring denture hygiene. Cardash HS, et al. J Prosthet Dent 1990 Jun;63(6):661–4

DRUG THERAPY

Chemotherapy. A viable periodontal treatment modality? Deasy MJ. **Dent Clin North Am** 1990 Jan;34(1):1–11 (90 ref.)

Efficacy of Listerine, Meridol and chlorhexidine mouthrinses on plaque, gingivitis and plaque bacteria vitality. Brecx M, et al. **J Clin Periodontol** 1990 May;17(5):292–7

Efficacy of Perimed antibacterial system on established gingivitis. (I). Clinical results. Clark WB, et al. **J Clin Periodontol** 1989 Nov;16(10):630–5

ENZYMOLOGY

[Analysis of peroxidases in human dental plaque] Jentsch H, et al. **Zahn Mund Kieferheilkd** 1989;77(6):574–5 (Ger)

EPIDEMIOLOGY

Effect of cigarette smoking on the transition dynamics in experimental gingivitis. Danielsen B, et al. **J Clin Periodontol** 1990 Mar;17(3):159–64

ETIOLOGY

Plaque formation of dietary isomaltulose in humans. Ooshima T, et al. **Caries Res** 1990;24(1):48–51

The influence of surface free energy and surface roughness on early plaque formation. An in vivo study in man. Quirynen M, et al. **J Clin Periodontol** 1990 Mar; 17(3):138–44

A rationale for comparison of plaque-retaining properties of crown systems. Sorensen JA. **J Prosthet Dent** 1989 Sep; 62(3):264–9 (87 ref.)

IMMUNOLOGY

Effects of lipopolysaccharide from Bacteroides gingivalis in SUS rats. Isogai H, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):1095–7

METABOLISM

Plaque fluid pH, calcium and phosphorus responses to calcium food additives in a chewable candy. Rankine CA, et al. **Arch Oral Biol** 1989;34(10):821–4

'Human plaque pH responses to meals and the effects of chewing gum' [letter] Hamilton P. **Br Dent J** 1990 Feb 10;168(3):94

Development of a diagnostic test for anaerobic periodontal infections based on plaque hydrolysis of benzoyl-DL-arginine-naphthylamide. Loesche WJ, et al. **J Clin Microbiol** 1990 Jul;28(7):1551–9

An analysis of factors influencing diffusion from dental plaque into a moving film of saliva and the implications for caries. Dawes C. **J Dent Res** 1989 Nov;68(11):1483–8

Plaque fluid and diffusion: study of the cariogenic challenge by computer modeling. Dibdin GH. **J Dent Res** 1990 Jun; 69(6):1324–31

In vivo effects of zinc and chlorhexidine on dental plaque ureolysis and glycolysis. Giertsen E, et al. **J Dent Res** 1989 Jun;68(6):1132–4

An assessment of recent advances in the study of the chemistry and biochemistry of dental plaque fluid. Margolis HC. **J Dent Res** 1990 Jun;69(6):1337–42 (46 ref.)

The antimicrobial action of fluoride and its role in caries inhibition. Van Loveren C. **J Dent Res** 1990 Feb;69 Spec No:676–81; discussion 682–3 (67 ref.)

MICROBIOLOGY

Effects of orthodontic bands on microbiologic and clinical parameters. Huser MC, et al. **Am J Orthod Dentofacial Orthop** 1990 Mar;97(3):213–8

Antimicrobial activity of N,N'-dialkylpolymethylenediamines against some dental plaque bacteria. Murata Y, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1636–8

Growth stimulation of Treponema denticola by periodontal microorganisms. ter Steeg PF, et al. **Antonie Van Leeuwenhoek** 1990 Feb;57(2):63–70

Incidence of selected ureolytic bacteria in human dental plaque from sites with differing salivary access. Salako NO, et al. **Arch Oral Biol** 1989;34(10):787–91

Relationship of human gingival crevicular fluid polyamine concentration to the percentage of spirochaetes in subgingival dental plaque. Walters JD, et al. **Arch Oral Biol** 1989;34(5):373–5

Comparative cariogenicity and dental plaque-forming ability in gnotobiotic rats of four species of mutans streptococci. Willcox MD, et al. **Arch Oral Biol** 1989;34(10):825–8

In vivo dental plaque-forming ability and cariogenicity of the bacterium Streptococcus bovis in gnotobiotic rats. Willcox MD, et al. **Arch Oral Biol** 1990;35(2):163–6

Assessing periodontal pathogens in children with varying levels of oral hygiene. Abraham J, et al. **ASDC J Dent Child** 1990 May-Jun;57(3):189–93

Microbiological assays as predictors of the response to periodontal therapy. Newcomb GM, et al. **Aust Dent J** 1990 Jun;35(3):261–5

A method for the identification of Streptococcus mutans in gingival margin plaque by immunofluorescence. Bush MS, et al. **Caries Res** 1990;24(1):23–9

Effect of dental plaque age and bacterial composition on the pH of artificial fissures in human volunteers. Igarashi K, et al. **Caries Res** 1990;24(1):52–8

Antiplaque activity of some antimicrobial agents using a simple in vitro method. Murata Y, et al. **Caries Res** 1990; 24(2):113–6

Antimicrobial activity of N-alkylpolymethylenediamines against some dental plaque bacteria. Murata Y, et al. **Caries Res** 1990;24(1):33–5

Mutans streptococci in interproximal plaque from amalgam and glass ionomer restorations. Svanberg M, et al. **Caries Res** 1990;24(2):133–6

Caries development in children in relation to the presence of mutans streptococci in dental plaque and of serum antibodies against whole cells and protein antigen I/II of Streptococcus mutans. Tenovuo J, et al. **Caries Res** 1990; 24(1):59–64

Longitudinal study of caries and cariogenic bacteria in an elderly disabled population. MacEntee MI, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):149–52

Prevalence of Streptococcus mutans and dental decay in schoolchildren living in Genoa (Italy). De Leo C, et al. **Eur J Epidemiol** 1990 Jun;6(2):166–74

Cellular coaggregation of oral Streptococcus milleri with actinomyces. Eifuku H, et al. **Infect Immun** 1990 Jan; 58(1):163–8

Adherence of mutans streptococci to other oral bacteria. Lamont RJ, et al. **Infect Immun** 1990 Jun;58(6):1738–43

Effect of phenoxyethanol, chlorhexidine and their combination on subgingival plaque bacteria. Wilson M, et al. **J Antimicrob Chemother** 1990 Jun;25(6):921–9

Evidence for the occurrence of the same strain of Campylobacter pylori in the stomach and dental plaque. Shames B, et al. **J Clin Microbiol** 1989 Dec;27(12):2849–50

Comparison of solid media for cultivation of anaerobes. Heginbothom M, et al. **J Clin Pathol** 1990 Mar;43(3):253–6

The survival of subgingival plaque bacteria in an amine fluoride-containing gel. Bansal GS, et al. **J Clin Periodontol** 1990 Aug;17(7 Pt 1):414–8

Comparison of plaque microflora between Chinese and Caucasian population groups. Cao CF, et al. **J Clin Periodontol** 1990 Feb;17(2):115–8

Detection of high-risk groups and individuals for periodontal diseases: laboratory markers based on the microbiological analysis of subgingival plaque. Maiden MF, et al. **J Clin Periodontol** 1990 Jan;17(1):1–13 (102 ref.)

Darkground microscopy of subgingival plaque from the top to the bottom of the periodontal pocket. Omar AA, et al. **J Clin Periodontol** 1990 Jul;17(6):364–70

Effects of fluoride on the microbial ecology of dental plaque. Bowden GH. **J Dent Res** 1990 Feb;69 Spec No:653–9; discussion 682–3 (66 ref.)

The microflora associated with the development of initial enamel decalcification below orthodontic bands in vivo in children living in a fluoridated-water area. Boyar RM, et al. **J Dent Res** 1989 Dec;68(12):1734–8

Plaque fluid as a bacterial milieu. Edgar WM, et al. **J Dent Res** 1990 Jun;69(6):1332–6 (37 ref.)

Sorbitol adaptation of dental plaque in people with low and normal salivary-secretion rates. Kalfas S, et al. **J Dent Res** 1990 Feb;69(2):442–6

An investigation into the use of restriction endonuclease analysis for the study of transmission of mutans streptococci. Kulkarni GV, et al. **J Dent Res** 1989 Jul; 68(7):1155–61

Distribution and prevalence of mutans streptococci in the human dentition. Lindquist B, et al. **J Dent Res** 1990 May; 69(5):1160–6

Comparative microbiological and immunological studies of subgingival dental plaque from man and baboons. McMahon KT, et al. **J Dent Res** 1990 Jan;69(1):55–9

Diminished acid tolerance of plaque bacteria caused by fluoride. Marquis RE. **J Dent Res** 1990 Feb;69 Spec No:672–5; discussion 682–3

A microbiological study of early caries of approximal surfaces in schoolchildren. Marsh PD, et al. **J Dent Res** 1989 Jul;68(7):1151–4

Limit of resolution of flow cytometry for the detection of selected bacterial species. Obernesser MS, et al. **J Dent Res** 1990 Sep;69(9):1592–8

Colonization resistance of defined bacterial plaques to Streptococcus mutans implantation on teeth in a model mouth. Perrons CJ, et al. **J Dent Res** 1990 Feb;69(2):483–8

Effects of varnishes containing chlorhexidine on the human dental plaque flora. Schaeken MJ, et al. **J Dent Res** 1989 Dec;68(12):1786–9

Mutans streptococci in plaque from margins of amalgam, composite, and glass-ionomer restorations. Svanberg M, et al. **J Dent Res** 1990 Mar;69(3):861–4

Association of the microbial flora of dental plaque and saliva with human root-surface caries. Van Houte J, et al. **J Dent Res** 1990 Aug;69(8):1463–8

DNA homologies shared among E. corrodens isolates and other corroding bacilli from the oral cavity. Chen CK, et al. **J Periodont Res** 1990 Mar;25(2):106–12

Selective modulation of bacterial attachment to oral epithelial cells by enzyme activities associated with poor oral hygiene. Childs WC 3d, et al. **J Periodont Res** 1990 May; 25(3):172–8

Microscopic characterization of root surface-associated microbial plaque in localized juvenile periodontitis. Douglass KD, et al. **J Periodontol** 1990 Aug;61(8):475–84

A scanning electron micrographical study of root surfaces and subgingival bacteria after hand and ultrasonic instrumentation. Garnick JJ, et al. **J Periodontol** 1989 Aug; 60(8):441–7

Effect of 6 months use of a dentifrice and oral rinse containing sanguinaria extract and zinc chloride upon the microflora of the dental plaque and oral soft tissues. Harper DS, et al. **J Periodontol** 1990 Jun;61(6):359–63

Multi-center clinical evaluation of a chairside method for detecting certain periodontopathic bacteria in periodontal disease. Loesche WJ, et al. **J Periodontol** 1990 Mar; 61(3):189–96

The effect of 1% metronidazole gel in routine maintenance of persistent furcation involvement in human beings. Needleman IG, et al. **J Periodontol** 1989 Dec; 60(12):699–703

Effect of 0.12% chlorhexidine on bacterial recolonization following periodontal surgery. Newman MG, et al. **J Periodontol** 1989 Oct;60(10):577–81

Irrigation with 0.06% chlorhexidine in naturally occurring gingivitis. II. 6 months microbiological observations. Newman MG, et al. **J Periodontol** 1990 Jul;61(7):427–33

Susceptibility and resistance of plaque bacteria to minocycline. O'Connor BC, et al. **J Periodontol** 1990 Apr; 61(4):228–33

Morphotypes of the subgingival microflora in diabetic adolescents in Finland. Sandholm L, et al. **J Periodontol** 1989 Sep;60(9):526–8

Molecular genetic analysis of Actinobacillus actinomycetemcomitans epidemiology. Zambon JJ, et al. **J Periodontol** 1990 Feb;61(2):75–80

Isolation and identification of strains of Bacteroides fragilis group from the digestive tract of Callithrix penicillata marmosets. Avila-Campos MJ, et al. **Lab Anim** 1990 Jan; 24(1):68–70

Glucanase-producing organisms in human dental plaques. Johnson IH. **Microbios** 1990;61(247):89–98

Isolation of acid producing sorbitol-adapted bacteria from dental plaque using selective agar media. Linke HA, et al. **Microbios** 1990;61(246):39–48

New approaches for controlling dental plaque pathogenicity. Kleinberg I. **N Y State Dent J** 1990 May;56(5):31–4 (18 ref.)

Salivary conditions and cariogenic microorganisms in 55, 65, and 75-year-old Swedish individuals. Fure S, et al. **Scand J Dent Res** 1990 Jun;98(3):197–210

Wolinella recta and spirochetes in relation to alteration of probing depth in a population without regular dental care. Steinlin T, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(9):993–7

Results with the caries activity test "Cariostat" compared to prevalence of mutans streptococci and lactobacilli. Camling E, et al. **Swed Dent J** 1989;13(4):125–30

Preliminary study of the anaerobic bacteria isolated from subgingival plaque from sheep. McCourtie J, et al. **Vet Microbiol** 1989 Dec;21(2):139–46

[A latex agglutination test for the rapid identification of periodontally pathogenic microorganisms in subgingival plaque. The preliminary results] Tsalikis L, et al. **Zahn Mund Kieferheilkd** 1989;77(7):659–67 (Eng. Abstr.) (Ger)

[Methodological possibilities for in vitro evaluation of the antibiotic sensitivity of bacterial plaque from periodontal pockets] Caravaglio N, et al. **Ann Ig** 1989 Sep-Oct; 1(5):1269–78 (Eng. Abstr.) (Ita)

PATHOLOGY

Scores of plaque, bleeding, suppuration and probing depth to predict probing attachment loss. 5 years of observation following nonsurgical periodontal therapy. Badersten A, et al. **J Clin Periodontol** 1990 Feb;17(2):102–7

A retrospective analysis of the perio-prosthetic aspect of teeth re-prepared during periodontal surgery. Carnevale G, et al. **J Clin Periodontol** 1990 May;17(5):313–6

Diagnostic predictability of scores of plaque, bleeding, suppuration and probing depth for probing attachment loss. 3 1/2 years of observation following initial periodontal therapy. Claffey N, et al. **J Clin Periodontol** 1990 Feb; 17(2):108–14

[Studies on artificial dental plaque. Preliminary observation on the morphology of developing artificial dental plaque] Zhou XD. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Mar;24(2):67–8, 127 (Eng. Abstr.) (Chi)

PHYSIOPATHOLOGY

Human plaque pH responses to meals and the effects of chewing gum [see comments] Jensen ME, et al. **Br Dent J** 1989 Sep 23;167(6):204–8 Comment in: Br Dent J 1989 Nov 11;167(9):303. Comment in: Br Dent J 1990 Jan 6;168(1):5.

Comparison of in vivo human dental plaque pH changes within artificial fissures and at interproximal sites. Igarashi K, et al. **Caries Res** 1989;23(6):417–22

In vivo acid production from medicines in syrup form. Rekola M. **Caries Res** 1989;23(6):412–6

Relationship between bleeding/plaque ratio, family history of diabetes mellitus and impaired glucose tolerance. Sastrowijoto SH, et al. **J Clin Periodontol** 1990 Jan; 17(1):55–60

The effect of plaque thickness on progression of artificial caries lesion formation in situ. Mellberg JR, et al. **J Dent Res** 1990 Mar;69(3):865–7

Effects of variously processed starch on pH of human dental plaque. Lingström P, et al. **Scand J Dent Res** 1989 Oct;

97(5):392–400
Comparative study on mineralization-related intraoral parameters in periodontitis-affected and periodontitis-free adults. Sewón L, et al. **Scand J Dent Res** 1990 Aug; 98(4):305–12

PREVENTION & CONTROL

Chemotherapeutic control of plaque and gingivitis. Turnbull RS. **Can Dent Assoc J** 1989 Dec;55(12):965–6 (15 ref.)
Effect of amine fluoride/stannous fluoride-containing toothpaste and mouthrinsings on dental plaque, gingivitis, plaque and enamel F-accumulation. Bánóczy J, et al. **Caries Res** 1989;23(4):284–8
Plaque inhibition by a combination of zinc citrate and sodium lauryl sulfate. Giertsen E, et al. **Caries Res** 1989; 23(4):278–83
Dose-related effects of ZnCl2 on dental plaque formation and plaque acidogenicity in vivo. Giertsen E, et al. **Caries Res** 1989;23(4):272–7
In vitro screening of Chinese medicinal toothpastes: their effects on growth and plaque formation of mutans streptococci. Wu-Yuan CD, et al. **Caries Res** 1990; 24(3):198–202
Agents for the management of plaque and gingivitis. Ciancio SG. **J Am Coll Dent** 1989 Fall;56(3):14–20 (65 ref.)
The relative plaque removal effect of a prebrushing mouthrinse. Beiswanger BB, et al. **J Am Dent Assoc** 1990 Feb;120(2):190–2
Interaction between chlorhexidine digluconate and sodium lauryl sulfate in vivo. Barkvoll P, et al. **J Clin Periodontol** 1989 Oct;16(9):593–5
Effect of adhesive antibiotic TA on plaque and gingivitis in man. Manor A, et al. **J Clin Periodontol** 1989 Nov; 16(10):621–4
Antimicrobial irrigation of periodontal furcation lesions to supplement oral hygiene instruction and root debridement. Nylund K, et al. **J Clin Periodontol** 1990 Feb;17(2):90–5
Comparative antiplaque activity of sanguinarine and chlorhexidine in man. Quirynen M, et al. **J Clin Periodontol** 1990 Apr;17(4):223–7
The clinical effects of a mouthrinse containing 0.1% octenidine. Beiswanger BB, et al. **J Dent Res** 1990 Feb; 69(2):454–7
Sulfadiazines prevent plaque formation and gingivitis in beagles. Howell TH, et al. **J Periodont Res** 1990 Jul; 25(4):197–200
Plaque score changes based primarily on patient performance at specific time intervals. DeVore CH, et al. **J Periodontol** 1990 Jun;61(6):343–6
A clinical comparison of antibacterial mouthrinses: effects of chlorhexidine, phenolics, and sanguinarine on dental plaque and gingivitis [see comments] Grossman E, et al. **J Periodontol** 1989 Aug;60(8):435–40 Comment in: J Periodontol 1990 May;61(5):306–7.
Clinical efficacy of a dentifrice and oral rinse containing sanguinaria extract and zinc chloride during 6 months of use. Harper DS, et al. **J Periodontol** 1990 Jun;61(6):352–8
The mouthrinse wars. Mandel ID. **J Periodontol** 1989 Aug; 60(8):478–80
Re: A Clinical Comparison of Antibacterial Mouthrinses (J Periodontol 1989;60:435:440) [letter; comment] Stoller NH. **J Periodontol** 1990 May;61(5):306–7 Comment on: J Periodontol 1989 Aug;60(8):435–40.
The effect of a 0.125% chlorhexidine rinse on inflammation after periodontal surgery. Vaughan ME, et al. **J Periodontol** 1989 Dec;60(12):704–8
Effect of dental plaque control on gingival lichen planus. Holmstrup P, et al. **Oral Surg Oral Med Oral Pathol** 1990 May;69(5):585–90
Six-month study of the effect of a dentifrice containing zinc citrate and triclosan on plaque, gingival health, and calculus. Svatun B, et al. **Scand J Dent Res** 1990 Aug; 98(4):301–4
[Dental prophylaxis by the patient] Bercy P. **Rev Belge Med Dent** 1989;44(2):31–44 (Eng. Abstr.) **(Fre)**
[A randomized crossover study. N-acetylcysteine lozenges sweetened with xylitol do not induce the formation of dental plaque] Grasso L, et al. **Schweiz Monatsschr Zahnmed** 1990;100(5):617–9 **(Fre)**
[Comparative study of the plaque-removing effect of oral irrigation] Olasz T, et al. **Fogorv Sz** 1990 May;83(5):145–7 (Eng. Abstr.) **(Hun)**
[Effect of subgingival plaque control by direct irrigation technique—2. Clinical and microbiological changes after irrigation with acrinol or benzalkonium chloride solution] Hagiwara S, et al. **Kokubyo Gakkai Zasshi** 1989 Sep; 56(3):435–43 (Eng. Abstr.) **(Jpn)**

THERAPY

Effects of an air-powder polishing system on orthodontically bracketed and banded teeth. Barnes CM, et al. **Am J Orthod Dentofacial Orthop** 1990 Jan;97(1):74–81
The effectiveness of 3 types of dental floss for interdental plaque removal. Ong G. **J Clin Periodontol** 1990 Aug;17(7 Pt 1):463–6
Relative influence of plaque control, scaling and root planing on occlusal sounds. Muramoto T, et al. **J Oral Rehabil** 1989 Nov;16(6):575–80
The effectiveness of a counter-rotary action powered toothbrush and conventional toothbrush on plaque removal and gingival bleeding. A short term study. Killoy WJ, et al. **J Periodontol** 1989 Aug;60(8):473–7
Effects of airpolishing on dental plaque removal and hard tissues as evaluated by scanning electron microscopy. Kontturi-Närhi V, et al. **J Periodontol** 1990 Jun;61(6):334–8

ULTRASTRUCTURE

[Observations on human natural dental plaque associated with normal, periodontally diseased and carious teeth by scanning electron microscopy] Chen P. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):292–4, 319 (Eng. Abstr.) **(Chi)**

DENTAL PLAQUE INDEX see under **DENTAL HEALTH SURVEYS**

DENTAL POLISHING

[An in-vitro method for determining the polishing effect of dental polishes (letter)] **Schweiz Monatsschr Zahnmed** 1989; 99(7):850 **(Ger)**

INSTRUMENTATION

The versatile air abrasive blaster. Nagy WW, et al. **J Prosthet Dent** 1990 Apr;63(4):490
[The stomatologic polishing machine ShM-03] Semiusov GG. **Med Tekh** 1989 Sep-Oct;(5):59–61 (Eng. Abstr.) **(Rus)**

METHODS

Methods of proximal amalgam overhang removal—a comparison of different techniques. Lim KC, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):599–602
An evaluation of different composite resin systems finished with various abrasives. Herrgott AM, et al. **J Am Dent Assoc** 1989 Dec;119(6):729–32
99mTc-MDP adsorption of some dental alloys with varying surface roughness: effect of oral environment. Anil N, et al. **J Dent** 1989 Dec;17(6):301–4
The nature and effects of composite finishing pastes. Whitehead SA, et al. **J Dent** 1989 Oct;17(5):234–40
Finishing composite restorative materials. Wilson F, et al. **J Oral Rehabil** 1990 Jan;17(1):79–87

DENTAL PORCELAIN

Wear mechanisms of resin and porcelain denture teeth. Ekfeldt A, et al. **Acta Odontol Scand** 1989 Dec;47(6):391–9
Tempering as a means to strengthen porcelain-fused-to-metal restorations. DeHoff PH, et al. **Biomed Sci Instrum** 1990;26:167–74
An investigation into the role of porcelain thickness in determining the load-carrying capacity of porcelain laminates. Hopkins K. **Br Dent J** 1989 Sep 23;167(6):201–4
Porcelain today—a whole new world of possibilities. Maier HJ. **Can Dent Assoc J** 1989 Oct;55(10):783
CAD-CAM ceramic inlays and onlays: a case report after 3 years in place. Mormann WH, et al. **J Am Dent Assoc** 1990 May;120(5):517–20
Effect of alumina concentration on the thermal diffusivity of dental porcelain. Piddock V. **J Dent** 1989 Dec; 17(6):290–4
Oxide adherence and porcelain bonding to titanium and Ti-6Al-4V alloy. Adachi M, et al. **J Dent Res** 1990 Jun; 69(6):1230–5
Effect of firing temperature and water exposure on crack propagation in unglazed porcelain. Anusavice KJ, et al. **J Dent Res** 1989 Jun;68(6):1075–81
Influence of tempering and contraction mismatch on crack development in ceramic surfaces. Anusavice KJ, et al. **J Dent Res** 1989 Jul;68(7):1182–7
Transient and residual stress in a porcelain-metal strip. Asaoka K, et al. **J Dent Res** 1990 Feb;69(2):463–9
Effect of visco-elastic behavior on stress development in a metal-ceramic system. Dehoff PH, et al. **J Dent Res** 1989 Aug;68(8):1223–30
Performance assessment of colorimetric devices on dental porcelains. Seghi RR, et al. **J Dent Res** 1989 Dec; 68(12):1755–9
Effects of instrument-measuring geometry on colorimetric assessments of dental porcelains. Seghi RR. **J Dent Res** 1990 May;69(5):1180–3
Visual and instrumental colorimetric assessments of small color differences on translucent dental porcelain. Seghi RR, et al. **J Dent Res** 1989 Dec;68(12):1760–4
Wear of prosthodontic materials—an in vivo study. Ekfeldt A, et al. **J Oral Rehabil** 1990 Mar;17(2):117–29
Effects of the porcelain firing sequence on the bond strengths of cements. Kanoy BE, et al. **J Oral Rehabil** 1989 Jul; 16(4):335–43
Colour measurements of all ceramic crown systems. Rosenstiel SF, et al. **J Oral Rehabil** 1989 Sep;16(5):491–501
Conservative posterior ceramic restorations: a literature review. Banks RG. **J Prosthet Dent** 1990 Jun;63(6):619–26 (51 ref.)
A comparative strength study of metal ceramic and all-ceramic esthetic materials: modulus of rupture. Campbell SD. **J Prosthet Dent** 1989 Oct;62(4):476–9
Restoration of fixed partial dentures with fractured porcelain veneers using an overcasting. Cohen B, et al. **J Prosthet Dent** 1989 Oct;62(4):390–2
The influence of condensation method on porosity and shade of body porcelain. Evans DB, et al. **J Prosthet Dent** 1990 Apr;63(4):380–9
A qualitative study for the bond and color of ceramometals. Part I. Hammad IA, et al. **J Prosthet Dent** 1990 Jun; 63(6):643–53
Apparent density and tensile strength of materials for facially butted porcelain margins. Hinrichs RE, et al. **J Prosthet Dent** 1990 Apr;63(4):403–7
Marginal fit of porcelain-fused-to-metal and two types of ceramic crown. Hung SH, et al. **J Prosthet Dent** 1990 Jan; 63(1):26–31
Effect of opaque porcelain application on strength of bond to silver-palladium alloys. Jochen DG, et al. **J Prosthet Dent** 1990 Apr;63(4):414–8
Fracture-surface analysis of dental ceramics. Kelly JR, et al. **J Prosthet Dent** 1989 Nov;62(5):536–41
Matrices in metal ceramics. Kucey BK. **J Prosthet Dent** 1990 Jan;63(1):32–7
Residual stress in several ceramometal systems. Lund PS, et al. **J Prosthet Dent** 1989 Sep;62(3):278–83
Apparent fracture toughness of all-ceramic crown systems. Rosenstiel SF, et al. **J Prosthet Dent** 1989 Nov;62(5):529–32
The ceramic reverse three-quarter crown for anterior teeth: laboratory procedures. el Sherif MH, et al. **J Prosthet Dent** 1990 Aug;64(2):127–30
Effect of multiple firing on the bond strength of selected matched porcelain-fused-to-metal combinations. Stannard JG, et al. **J Prosthet Dent** 1990 Jun;63(6):627–9
Shoulder preparations for collarless metal ceramic crowns: hand-planning as opposed to rotary instrumentation. Zena RB, et al. **J Prosthet Dent** 1989 Sep;62(3):273–7
Thermal oxidation effect on porcelain-titanium restoration. Horng CJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Sep; 5(9):522–8
Aluminum oxide ceramic pins for retrograde root filling—experiences with a new system. Keller U. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):737–42
[SEM observation of the interface between hydroxyapatite ceramic and metal compound implant materials] Xia FX. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):270–2, 318–9 (Eng. Abstr.) **(Chi)**
[Bond strength of etched enamel to direct composite resins, to indirect composite resins and to etched and silanized porcelain] Prévost AP, et al. **J Can Dent Assoc** 1990 Jul; 56(7):631–5 (Eng. Abstr.) **(Fre)**
[Ceramic inlays] Bieri WE, et al. **Schweiz Monatsschr Zahnmed** 1989;99(9):1041–4 **(Fre)**
[The results of the use of porcelain crowns prepared on refractory models] Perzashkevich LM, et al. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):56 (Eng. Abstr.) **(Rus)**

STANDARDS

Metal ceramic compatibility: a review of the literature. Bagby M, et al. **J Prosthet Dent** 1990 Jan;63(1):21–5 (87 ref.)

THERAPEUTIC USE

[Scanning electron microscopy studies of the marginal finish conditions of tooth neck ceramic inlays treated with a silane coupling agents and bonded with a composite] Meissner M, et al. **Zahn Mund Kieferheilkd** 1989;77(6):543–8 (Eng. Abstr.) **(Ger)**

DENTAL PROPHYLAXIS

see related
DENTAL CALCULUS

Incidence of fever following invasive oral interventions in the myelosuppressed cancer patient. Weikel DS, et al. **Cancer Nurs** 1989 Oct;12(5):265–70
Evaluation of clinical and radiographic scoring methods before and after initial periodontal therapy. Hämmerle CH, et al. **J Clin Periodontol** 1990 Apr;17(4):255–63
Evaluation of gingival bleeding following 4 types of periodontal therapy. Kalkwarf KL, et al. **J Clin Periodontol** 1989 Oct;16(9):601–8
Effect of non-surgical periodontal therapy combined with adjunctive antibiotics in subjects with "refractory" periodontal disease. (I). Clinical results. Magnusson I, et al. **J Clin Periodontol** 1989 Nov;16(10):647–53
Effects of cavitational activity on the root surface of teeth during ultrasonic scaling. Walmsley AD, et al. **J Clin Periodontol** 1990 May;17(5):306–12
Relative influence of plaque control, scaling and root planing on occlusal sounds. Muramoto T, et al. **J Oral Rehabil** 1989 Nov;16(6):575–80
Effects of adjunctive treatment of periodontitis with tetracycline and spiramycin. Al-Joburi W, et al. **J Periodontol** 1989 Oct;60(10):533–9
Responses of four tooth and site groupings to periodontal therapy. Kaldahl WB, et al. **J Periodontol** 1990 Mar; 61(3):173–9
The residual calculus paradox [editorial; comment] Robertson PB. **J Periodontol** 1990 Jan;61(1):65–6 Comment on: J Periodontol 1990 Jan;61(1):3–8. Comment on: J Periodontol 1990 Jan;61(1):9–15. Comment on: J Periodontol 1990 Jan;61(1):16–20.
The effectiveness of subgingival scaling and root planning. I. Clinical detection of residual calculus [see comments]

Sherman PR, et al. **J Periodontol** 1990 Jan;61(1):3–8 Comment in: J Periodontol 1990 Jan;61(1):65–6.

The effectiveness of subgingival scaling and root planing. II. Clinical responses related to residual calculus [see comments] Sherman PR, et al. **J Periodontol** 1990 Jan; 61(1):9–15 Comment in: J Periodontol 1990 Jan;61(1):65–6.

Digital subtraction of radiograph in evaluating alveolar bone changes after initial periodontal therapy. Okano T, et al. **Oral Surg Oral Med Oral Pathol** 1990 Feb;69(2):258–62

[Observational research on the dental compliance of growing children. A behavioral analysis] Bella G, et al. **Minerva Stomatol** 1990 Apr;39(4):255–9 (Eng. Abstr.) **(Ita)**

[Ultrastructural aspects of root planing: scanning electron microscopy (S.E.M.)] Pallassini A, et al. **Minerva Stomatol** 1989 Nov;38(11):1215–20 (Eng. Abstr.) **(Ita)**

[A longitudinal clinical study of the efficacy of tetracyclines combined with root planing in patients with periodontal disease] Pannuti E, et al. **Minerva Stomatol** 1990 May; 39(5):407–11 (Eng. Abstr.) **(Ita)**

[Amount of mineralized tissue removed by root planing] Santarelli G, et al. **Minerva Stomatol** 1989 Jul;38(7):739–41 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Bacteraemia and tissue damage resulting from air polishing. Hunter KM, et al. **Br Dent J** 1989 Oct 21;167(8):275–8

Effects of subgingival irrigation on bacteremia following scaling and root planing. Waki MY, et al. **J Periodontol** 1990 Jul;61(7):405–11

Pulpal and root sensitivity rated to periodontal therapy. Wallace JA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):743–7

INSTRUMENTATION

The effects of scaling titanium implant surfaces with metal and plastic instruments on cell attachment. Dmytryk JJ, et al. **J Periodontol** 1990 Aug;61(8):491–6

The effects of scaling a titanium implant surface with metal and plastic instruments: an in vitro study. Fox SC, et al. **J Periodontol** 1990 Aug;61(8):485–90

A scanning electron micrographical study of root surfaces and subgingival bacteria after hand and ultrasonic instrumentation. Garnick JJ, et al. **J Periodontol** 1989 Aug; 60(8):441–7

In vitro effectiveness of a newly-designed ultrasonic scaler tip for furcation areas. Oda S, et al. **J Periodontol** 1989 Nov;60(11):634–9

[Ultrasonic and sonic scalers in periodontics. A review] Thilo B, et al. **Schweiz Monatsschr Zahnmed** 1990;100(3):269–73 (40 ref.) (Eng. Abstr.) **(Fre)**

METHODS

Effects of an air-powder polishing system on orthodontically bracketed and banded teeth. Barnes CM, et al. **Am J Orthod Dentofacial Orthop** 1990 Jan;97(1):74–81

Enamel microabrasion for removal of superficial dysmineralization and decalcification defects. Croll TP. **J Am Dent Assoc** 1990 Apr;120(4):411–5

The assessment of ultrasonic root surface debridement by determination of residual endotoxin levels. Smart GJ, et al. **J Clin Periodontol** 1990 Mar;17(3):174–8

A clinical and microbiological comparison of the effects of water and 0.02% chlorhexidine as coolants during ultrasonic scaling and root planing. Taggart JA, et al. **J Clin Periodontol** 1990 Jan;17(1):32–7

Total calculus removal: an attainable objective? [see comments] Kepic TJ, et al. **J Periodontol** 1990 Jan; 61(1):16–20 Comment in: J Periodontol 1990 Jan;61(1):65–6.

Effects of airpolishing on dental plaque removal and hard tissues as evaluated by scanning electron microscopy. Kontturi-Närhi V, et al. **J Periodontol** 1990 Jun;61(6):334–8

The effect of air abrasive polishing on blood pH and electrolyte concentrations in healthy mongrel dogs. Snyder JA, et al. **J Periodontol** 1990 Feb;61(2):81–6

Dental procedures and endocarditis prophylaxis in patients with prosthetic heart valves: results of a questionnaire to 220 patients. Gutschik E, et al. **Scand J Infect Dis** 1989; 21(6):665–8

[The therapeutic effects of non-surgical technics applied in the treatment of periodontitis] De Beule F, et al. **Rev Belge Med Dent** 1989;44(2):45–54 (Eng. Abstr.) **(Fre)**

[Surgical and non-surgical approach to deep periodontal pockets] van Steenberghe D, et al. **Rev Belge Med Dent** 1989;44(2):55–69 (Eng. Abstr.) **(Fre)**

[The work productivity of the dentist in cleaning the oral cavity with the use of intravenous premedication] Morozova LI, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb; 69(1):86–7 **(Rus)**

STATISTICS & NUMERICAL DATA

The provision of periodontal services in general dental practice in Australia. Spencer AJ, et al. **Community Dent Health** 1989 Dec;6(4):337–47

TRENDS

[Prophylaxis is in the center in developing countries (interview by K. Venner)] Ben-Zur E. **Schweiz Monatsschr Zahnmed** 1990;100(7):892–3, 917–8 **(Ger, Fre)**

VETERINARY

Effect of chewing rawhide and cereal biscuit on removal of dental calculus in dogs. Lage A, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):213–9

DENTAL PROSTHESIS

Zeta potential and the adhesion of oral streptococci to polymethylmethacrylate. Uyen HM, et al. **Biomater Artif Cells Artif Organs** 1989;17(4):385–91

Fundamentals of prosthetic practice. Part I—The laboratory. Welfare RD, et al. **Br Dent J** 1989 Oct 7;167(7):244–8

Fundamentals of prosthetic practice. Part II—The surgery. Welfare RD, et al. **Br Dent J** 1989 Oct 21;167(8):282–5

Maxillofacial prosthodontics. **Dent Clin North Am** 1990 Apr; 34(2):185–395

Integral implant-prosthodontic considerations. Finger IM, et al. **Dent Clin North Am** 1989 Oct;33(4):793–819 (9 ref.)

Effects of intraoral prosthetics on swallowing in patients with oral cancer. Logemann JA, et al. **Dysphagia** 1989; 4(2):118–20

Primary palatorraphy in the adult cleft palate patient. Surgical, prosthetic and logopaedic aspects. Hoppenreijs TJ. **J Craniomaxillofac Surg** 1990 May;18(4):141–6

The system of prosthetic treatment for CLAP patients. Wegscheider W, et al. **J Craniomaxillofac Surg** 1989 Dec; 17 Suppl 1:49–51

An innovative method of monitoring denture hygiene. Cardash HS, et al. **J Prosthet Dent** 1990 Jun;63(6):661–4

Magnetic resonance image degradation from prosthetic magnet keepers. Laurell KA, et al. **J Prosthet Dent** 1989 Sep;62(3):344–8

The presence and identification of organisms transmitted to dental laboratories. Powell GL, et al. **J Prosthet Dent** 1990 Aug;64(2):235–7

A clinical study of joint sounds in subjects with restored occlusions. Sidelsky H, et al. **J Prosthet Dent** 1990 May; 63(5):580–6

Acoustic analyses of speech changes after maxillectomy and prosthodontic management. Tobey EA, et al. **J Prosthet Dent** 1989 Oct;62(4):449–55

Role of the restorative dentist in the management of cleft palate patients: discussion paper. Kantorowicz GF. **J R Soc Med** 1990 Jan;83(1):29

Prolonged pharyngeal impaction of dentures following stroke. Fort S, et al. **Stroke** 1989 Dec;20(12):1748–50

Incisal and occlusal tooth wear and wear of some prosthodontic materials. An epidemiological and clinical study. Ekfeldt A. **Swed Dent J Suppl** 1989;65:1–62

[Dental prosthesis and phonetic function] Wang KL. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):178–80 (12 ref.) **(Chi)**

[Problems posed by dental implants and prostheses in daily practice at the department of psychiatry of a general hospital] Van Amerongen AP. **Ann Med Psychol (Paris)** 1990 Jan;148(1):71–4 **(Fre)**

[Therapeutic approach to post-radiation xerostomia. A reservoir prosthesis and an artificial salivary gland] Smatt V, et al. **Rev Stomatol Chir Maxillofac** 1989;90(5):325–9 (Eng. Abstr.) **(Fre)**

[The oral hygiene, dental health and prosthetic care of old age home pensioners and geriatric patients. A study at the Adullam Foundation in Basel] Wirz J, et al. **Schweiz Monatsschr Zahnmed** 1989;99(11):1253–60 (Eng. Abstr.) **(Ger)**

[The effect of metal dentures in the oral cavity on the electric conductivity of the saliva] Freidin LI, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):60–1 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Combined sensitization to palladium and nickel. van Joost T, et al. **Contact Dermatitis** 1990 Apr;22(4):227–8 (9 ref.)

[Respiratory distress following the inhalation of a non radio-opaque dental prosthesis (letter)] Douzinas EE, et al. **Ann Med Interne (Paris)** 1989;140(5):413–4 **(Fre)**

[The relationship between lichen ruber planus orale, hepatopathies and hypersensitivity to the components of dental restorations] Ayala F, et al. **Minerva Stomatol** 1990 Feb;39(2):129–32 (Eng. Abstr.) **(Ita)**

PSYCHOLOGY

The influence of psychologic factors on patient satisfaction with complete dentures. van Waas MA. **J Prosthet Dent** 1990 May;63(5):545–8

[The prevention of mental discomfort in gnathoprosthetic treatment] Burlui V, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul-Sep;93(3):563–6 (Eng. Abstr.) **(Rum)**

STANDARDS

[Prosthetic management following submucous vestibuloplasty] Schumann R, et al. **Schweiz Monatsschr Zahnmed** 1989;99(10):1127–30 (Eng. Abstr.) **(Ger)**

[The stomatologic polishing machine ShM-03] Semiusov GG. **Med Tekh** 1989 Sep-Oct;(5):59–61 (Eng. Abstr.) **(Rus)**

DENTAL PROSTHESIS DESIGN

Clinical results with titanium crowns fabricated with machine duplication and spark erosion. Andersson M, et al. **Acta Odontol Scand** 1989 Oct;47(5):279–86

Flange design in removable partial dentures. Chew CL, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):560–3

A laboratory technique for the production of immediate surgical appliances and 'one stage' obturators for the hemi-maxillectomy patient. Cunningham R. **Br J Oral Maxillofac Surg** 1990 Feb;28(1):59–61

Prosthesis serviceability for acquired jaw defects. Adisman IK. **Dent Clin North Am** 1990 Apr;34(2):265–84 (6 ref.)

The effects of resin-bonded and conventional fixed partial dentures on the periodontium: restoration type evaluated. Freilich MA, et al. **J Am Dent Assoc** 1990 Aug;121(2):265–9

Long-term results of prosthetic therapy in adult cleft lip alveolus and palate patients. von Schwanewede H, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:52–4

Construction of a maxillary prosthesis with a hollow obturator by the balloon technique and a case report. Hayashi J, et al. **J Nihon Univ Sch Dent** 1989 Dec; 31(4):585–96

Finite element analysis of three- and four-unit bridges. Farah JW, et al. **J Oral Rehabil** 1989 Nov;16(6):603–11

The gothic arch tracing and the upper canine teeth as guides in the positioning of upper posterior teeth. el-Gheriani AS, et al. **J Oral Rehabil** 1989 Sep;16(5):481–90

Microcomputer-aided removable partial denture design. Beaumont AJ Jr, et al. **J Prosthet Dent** 1989 Oct; 62(4):417–21

Microcomputer-aided removable partial denture design: the next evolution. Beaumont AJ Jr. **J Prosthet Dent** 1989 Nov; 62(5):551–6

Rigidity of major connectors when subjected to bending and torsion forces. Ben-Ur Z, et al. **J Prosthet Dent** 1989 Nov; 62(5):557–62

Laboratory procedures for the one-clasp removable partial denture [letter] Bissasu MA. **J Prosthet Dent** 1990 Jul; 64(1):119

Resin-bonded fixed partial dentures for abutment teeth with existing occlusal restorations. Bloxham GP. **J Prosthet Dent** 1990 Aug;64(2):241

Liquid-supported dentures. Part II: Clinical study, a preliminary report. Boere G, et al. **J Prosthet Dent** 1990 Apr;63(4):434–6

Removable partial denture design and fabrication survey of the prosthodontic specialist. Burns DR, et al. **J Prosthet Dent** 1989 Sep;62(3):303–7

The hinged-clasp assembly removable partial denture. Campbell SD, et al. **J Prosthet Dent** 1990 Jan;63(1):59–61

Residual ridge changes under titanium plasma-sprayed screw implant systems. el Charkawi HG. **J Prosthet Dent** 1989 Nov;62(5):576–80

Photoelastic analysis and comparison of force-transmission characteristics of intracoronal attachments with clasp distal-extension removable partial dentures. Chou TM, et al. **J Prosthet Dent** 1989 Sep;62(3):313–9

Provisional restoration for a patient with cleft lip and palate: a clinical report. DaBreo EL, et al. **J Prosthet Dent** 1990 Feb;63(2):119–21

Use of an elastomeric material to improve the occlusal seat and marginal seal of cast restorations. Davis SH, et al. **J Prosthet Dent** 1989 Sep;62(3):288–91

The use of stainless steel keepers for tissue-integrated prostheses. Drago CJ. **J Prosthet Dent** 1989 Oct; 62(4):435–6

Cast connectors as cores for ceramometal pontics on removable partial dentures and for splinting anterior crowns. Fehling AW. **J Prosthet Dent** 1990 Feb; 63(2):167–71

Visible light-cured denture base resin used in making dentures with conventional teeth. Fellman S. **J Prosthet Dent** 1989 Sep;62(3):356–9

Modification of immediate denture sectional impression technique using vinyl polysiloxane. Gardner LK, et al. **J Prosthet Dent** 1990 Aug;64(2):182–4

Gingival esthetics. Goodacre CJ. **J Prosthet Dent** 1990 Jul; 64(1):1–12 (76 ref.)

Interocclusal wax impressions for use in provisional and associated fixed prosthodontic procedures. Hoffman JM, et al. **J Prosthet Dent** 1989 Oct;62(4):395–400

Considerations in measurement of marginal fit. Holmes JR, et al. **J Prosthet Dent** 1989 Oct;62(4):405–8 (17 ref.)

Indirect retainers in soft palate obturator design. Jacob RF, et al. **J Prosthet Dent** 1990 Mar;63(3):311–5

An easy method to protect markings on dental casts. Komyati SE. **J Prosthet Dent** 1989 Sep;62(3):364

A simplified technique for fabricating esthetic cast metal occlusal surfaces for dentures. Krantz WA, et al. **J Prosthet Dent** 1990 Jun;63(6):713–5

A comparison of the stress transfer characteristics of a dental implant with a rigid or a resilient internal element. McGlumphy EA, et al. **J Prosthet Dent** 1989 Nov; 62(5):586–93

The effect of clinical experience on dental students' ability to design removable partial denture frameworks. McKinstry RE, et al. **J Prosthet Dent** 1989 Nov;62(5):563–6

Prosthetic use of carbon fiber-reinforced epoxy resin for esthetic crowns and fixed partial dentures. Malquarti G, et al. **J Prosthet Dent** 1990 Mar;63(3):251–7

Modification of an existing removable partial denture for use

as an interim prosthesis. Markus SJ. **J Prosthet Dent** 1989 Nov;62(5):500–2

Prosthodontic considerations for the transmandibular implant. Maxson BB, et al. **J Prosthet Dent** 1990 May; 63(5):554–8

Effect of a silicone fit–indicator on crown retention in vitro. Millstein PL, et al. **J Prosthet Dent** 1989 Nov;62(5):510–1

Rehabilitation of a patient with a bilateral partial maxillary resection. A clinical report. Mitchell DL, et al. **J Prosthet Dent** 1989 Nov;62(5):497–9

The labial plate major connector in the partial mandibulectomy patient. Nakamura SH, et al. **J Prosthet Dent** 1989 Dec;62(6):673–5

Mobile connection of veneer crowns after orthodontic closure of a wide diastema in the maxillae. A clinical report. Planert J, et al. **J Prosthet Dent** 1989 Oct;62(4):379–80

Comparison of weight reduction in different designs of solid and hollow obturator prostheses [letter; comment] Ramsey WO. **J Prosthet Dent** 1990 May;63(5):602 Comment on: J Prosthet Dent 1989 Aug;62(2):214–7.

Evaluation of survey lines on polished crowns. Richardson DW, et al. **J Prosthet Dent** 1989 Oct;62(4):491

Treatment for acute craniomandibular dysfunction symptoms in edentulous patients with unserviceable or no existing complete dentures. Runyan DA, et al. **J Prosthet Dent** 1989 Nov;62(5):542–5

Visible light–cured shoulder–porcelain application. Salvo E. **J Prosthet Dent** 1990 Mar;63(3):359–61

Direct assembly framework for osseointegrated implant prosthesis. Sellers GC. **J Prosthet Dent** 1989 Dec; 62(6):662–8

Ferrule design and fracture resistance of endodontically treated teeth. Sorensen JA, et al. **J Prosthet Dent** 1990 May;63(5):529–36

A standardized method for determination of crown margin fidelity. Sorensen JA. **J Prosthet Dent** 1990 Jul;64(1):18–24 (32 ref.)

Comparison of changes in vertical dimension between compression and injection molded complete dentures. Strohaver RA. **J Prosthet Dent** 1989 Dec;62(6):716–8

Fixed partial dentures opposing complete dentures. White KC, et al. **J Prosthet Dent** 1989 Oct;62(4):483–7

Retention magnets in guiding plates of distal–extension removable partial dentures [letter; comment] Zuest P. **J Prosthet Dent** 1989 Sep;62(3):365 Comment on: J Prosthet Dent 1988 Nov;60(5):577–82.

Modification of procedures to provide for prosthetic rehabilitation in a hospital inpatient. Waldron JM, et al. **N Y State Dent J** 1990 Mar;56(3):24–6 (11 ref.)

[Extracoronal bonded anchorages. Extracoronal bonded anchorages in cast–molded prosthesis: an esthetic extension of the geriatric denture reconstruction spectrum] Besimo C. **Schweiz Monatsschr Zahnmed** 1989;99(11):1292–304 **(Ger, Fre)**

[Root caps in hybrid prosthesis. Suggestions for the design and construction of root caps for hybrid prostheses] Kundert M, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(11):1284–91 **(Ger, Fre)**

[The replacement of defects and prevention of dental arch deformities in complete destruction of the crowns in subjects of various ages] Abolmasov NG, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):53–5 (Eng. Abstr.) **(Rus)**

[Aspects under discussion in the design and use of metal–ceramic dentures] Kalamkarov KhA, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):44–8 (Eng. Abstr.) **(Rus)**

[Experience in preparing metal–ceramic and unit–cast fixed dentures using a new nickel–chromium alloy] Khokhlov AA, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):50–1 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

The influence of spacers on forces exerted on the abutment teeth of complete mandibular overdentures. Ogata K, et al. **J Oral Rehabil** 1990 May;17(3):269–78

Comparison of conventional paint–on die spacers and those used with the all–ceramic restorations. Campbell SD. **J Prosthet Dent** 1990 Feb;63(2):151–5

Making a maxillary baseplate retentive. Jordan RD, et al. **J Prosthet Dent** 1989 Sep;62(3):363–4

Remount casts for removable partial dentures made in a laboratory. Jordan RD, et al. **J Prosthet Dent** 1989 Sep; 62(3):360–2

Correctly positioned and soldered wrought wire clasps for removable partial dentures. Young L Jr, et al. **J Prosthet Dent** 1990 Aug;64(2):242–3

METHODS

CAD–CAM ceramic inlays and onlays: a case report after 3 years in place. Mormann WH, et al. **J Am Dent Assoc** 1990 May;120(5):517–20

A light–cured interim obturator prosthesis. A clinical report. DaBreo EL. **J Prosthet Dent** 1990 Apr;63(4):371–3

The influence of condensation method on porosity and shade of body porcelain. Evans DB, et al. **J Prosthet Dent** 1990 Apr;63(4):380–9

Combination nasal support breathing flange with hollow obturator prosthesis. A clinical report. Gardner LK, et al. **J Prosthet Dent** 1990 May;63(5):497–501

Fabrication of a prosthesis to prevent sleep apnea in edentulous patients. Meyer JB Jr, et al. **J Prosthet Dent** 1990 Apr;63(4):448–51

Immediate temporary fixed partial dentures. Samant A. **J Prosthet Dent** 1990 Mar;63(3):362–3

Modifying a surgical obturator prosthesis into an interim obturator prosthesis. A clinical report. Wolfaardt JF. **J Prosthet Dent** 1989 Dec;62(6):619–21

[The replica prosthesis. A simple method for prosthesis duplication] Mericske–Stern R, et al. **Schweiz Monatsschr Zahnmed** 1990;100(5):586–95 **(Ger, Fre)**

DENTAL PROSTHESIS REPAIR

DIY dentures [letter] Grant R. **Br Dent J** 1990 Mar 10; 168(5):184

'DIY dentures!' [letter] Wallis R. **Br Dent J** 1990 Jun 9; 168(11):429–30

ADVERSE EFFECTS

Cyanoacrylate home denture repair: the problem and a solution. Clancy JM, et al. **J Prosthet Dent** 1989 Oct; 62(4):487–9

METHODS

Restoration of fixed partial dentures with fractured porcelain veneers using an overcasting. Cohen B, et al. **J Prosthet Dent** 1989 Oct;62(4):390–2

Thermal removal of composite resin: effect on rebonding etched metal. Haywood VB, et al. **J Prosthet Dent** 1990 Mar;63(3):289–91

Soldering procedure for repairing a full cast gold restoration. Kimondollo PM. **J Prosthet Dent** 1989 Oct;62(4):489–90

Retrieving fractured intramobile elements from osseointegrated implants. McCartney JW, et al. **J Prosthet Dent** 1990 Feb;63(2):245

Success rate experience after rebonding and renewal of resin–bonded fixed partial dentures. Marinello CP, et al. **J Prosthet Dent** 1990 Jan;63(1):8–11

DENTAL PROSTHESIS RETENTION

Resin–bonded bridges: a note of caution [see comments] Gilmour AS. **Br Dent J** 1989 Aug 19;167(4):140–1 Comment in: Br Dent J 1989 Oct 7;167(7):224.

Adhesive bonding of denture base resins to plastic denture teeth. Suzuki S, et al. **J Biomed Mater Res** 1990 Aug; 24(8):1091–103

Clinical performance of resin–bonded bridges: a 5–year prospective study. II. The influence of patient–dependent variables. Creugers NH, et al. **J Oral Rehabil** 1989 Nov; 16(6):521–7

Conditioning of root canals prior to dowel cementation with composite luting cement and two dentine adhesive systems. Liberman R, et al. **J Oral Rehabil** 1989 Nov;16(6):597–602

The use of denture adhesives as an aid to denture treatment. Adisman IK. **J Prosthet Dent** 1989 Dec;62(6):711–5

Auxiliary pin retention for restoring severely worn anterior teeth. Chee WW, et al. **J Prosthet Dent** 1989 Oct; 62(4):385–90

Role of the surface and volume of palatal relief chambers in retention of maxillary complete dentures. Jozefowicz W, et al. **J Prosthet Dent** 1989 Dec;62(6):651–3

Magnetic resonance image degradation from prosthetic magnet keepers. Laurell KA, et al. **J Prosthet Dent** 1989 Sep;62(3):344–8

Effect of a silicone fit–indicator on crown retention in vitro. Millstein PL, et al. **J Prosthet Dent** 1989 Nov;62(5):510–1

Complete denture retention. Part II: Wettability studies on various acrylic resin denture base materials. Monsénégo P, et al. **J Prosthet Dent** 1989 Sep;62(3):308–12

Changes in retention of various telescope crown assemblies over long–term use. Ohkawa S, et al. **J Prosthet Dent** 1990 Aug;64(2):153–8

Retention of threaded pins in amalgam. Podshadley AG. **J Prosthet Dent** 1990 Jan;63(1):47–51

Cross–pin fixation for fixed partial dentures. Stumpel LJ. **J Prosthet Dent** 1989 Nov;62(5):503–5

Retention magnets in guiding plates of distal–extension removable partial dentures [letter; comment] Zuest P. **J Prosthet Dent** 1989 Sep;62(3):365 Comment on: J Prosthet Dent 1988 Nov;60(5):577–82.

[A study on the promotion of adhesion properties of adhesives to metals treated by positive oxidation] Li JA, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec; 20(4):397–400 (Eng. Abstr.) **(Chi)**

[Extracoronal bonded anchorages. Extracoronal bonded anchorages in cast–molded prosthesis: an esthetic extension of the geriatric denture reconstruction spectrum] Besimo C. **Schweiz Monatsschr Zahnmed** 1989;99(11):1292–304 **(Ger, Fre)**

[Surface and circumference determination in resin–bonded retainer elements: a possibility for long–term prognosis?] Marinello CP, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(3):291–9 (Eng. Abstr.) **(Ger)**

[Electrochemical or mechanical preparation of metal surfaces of fixed dentures or splints] Tóth P Jr, et al. **Fogorv Sz** 1990 Mar;83(3):90–3 (Eng. Abstr.) **(Hun)**

[Comparative evaluation of the retentive capacity of endodontic posts] Pettini PL, et al. **Minerva Stomatol** 1989 Dec;38(12):1313–7 (Eng. Abstr.) **(Ita)**

[The prevention of complications from the use of cast stump pin inserts for the fixation of metal–ceramic dentures] Arutiunov SD. **Stomatologiia (Mosk)** 1989 Jul–Aug; 68(4):48–50 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

A laboratory examination of the behaviour of cast cobalt–chromium clasps. Ghani F, et al. **J Oral Rehabil** 1990 May;17(3):229–37

[Lock fasteners for denture fixation] Pukhaev VI, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):89–91 (70 ref.) **(Rus)**

METHODS

Use of a partial–coverage porcelain laminate to enhance clasp retention. Dixon DL, et al. **J Prosthet Dent** 1990 Jan; 63(1):55–8

Composite resin contouring of abutment teeth for rotational path removable partial dentures. Latta GH Jr. **J Prosthet Dent** 1990 Jun;63(6):716–7

[Characteristics of the fixation of resin–bonded bridge dentures. Possible errors and measures for their elimination] Gumetskiĭ RA, et al. **Stomatologiia (Mosk)** 1990 May–Jun; 69(3):64–5 (Eng. Abstr.) **(Rus)**

STATISTICS & NUMERICAL DATA

Success rate experience after rebonding and renewal of resin–bonded fixed partial dentures. Marinello CP, et al. **J Prosthet Dent** 1990 Jan;63(1):8–11

DENTAL PROSTHESIS, SURGICAL see **DENTAL IMPLANTS**

DENTAL PULP

see related
ENDODONTICS

[The effectiveness of intrapulpal anesthesia using needles with an obturator] Kosovich TIu. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):69 **(Rus)**

ANALYSIS

Neuropeptide K–like immunoreactivity in human dental pulp. Cassaso A, et al. **Arch Oral Biol** 1990;35(1):33–6

S–100 protein localization in human adult dental pulp. Lombardi T, et al. **Arch Oral Biol** 1989;34(10):833–7

Bovine dental pulp collagens: characterization of types III and V collagen. Tsuzaki M, et al. **Arch Oral Biol** 1990; 35(3):195–200

Adenine nucleotide contents and ATPases activities in porcine deciduous dental pulp during the root formation, in fully formed root and during root resorption phases. Paiva–Novaes MS, et al. **J Biol Buccale** 1989 Sep; 17(3):187–92

Immunoreactive evidence of beta–endorphin and methionine–enkephalin–Arg–Gly–Leu in human tooth pulp. Robinson QC, et al. **Life Sci** 1989;45(11):987–92

Analysis of DNA from tooth and application to forensic dental medicine. Yamada Y, et al. **Nippon Hoigaku Zasshi** 1989 Oct;43(5):420–3

ANATOMY & HISTOLOGY

An investigation of lymphatic vessels in the feline dental pulp. Bishop MA, et al. **Am J Anat** 1990 Mar;187(3):247–53

[The structure and ultrastructure of the pulp in Vipera aspis (Viperidae)] Kattie AL, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(3):163–8 (Eng. Abstr.) **(Fre)**

[Pulp–periodontal connections in bifurcation and trifurcation of six–year molars] Beetke E, et al. **Anat Anz** 1990; 170(3–4):159–62 (Eng. Abstr.) **(Ger)**

[Crown wall thickness, external dimensions and solid pulp substance relationships of swine teeth] Klinke G, et al. **Anat Anz** 1990;170(2):137–40 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Some factors influencing blood pressure of tooth pulp. Sticht FD. **Am J Physiol** 1967 Jun;212(6):1421–8

Quantitative assessment of microcirculation in the rat dental pulp in response to alpha– and beta–adrenergic agonists. Kim S, et al. **Arch Oral Biol** 1989;34(9):707–12

Comparison of pulpal blood flow in dog canine teeth determined by the laser Doppler and the 133xenon washout methods. Kim S, et al. **Arch Oral Biol** 1990;35(5):411–3

Comparison of the effects of intra–arterial and locally applied vasoactive agents on pulpal blood flow in dog canine teeth determined by laser Doppler velocimetry. Liu M, et al. **Arch Oral Biol** 1990;35(5):405–10

Effect of experimental tooth movement on periodontal and pulpal blood flow. Kvinnsland S, et al. **Eur J Orthod** 1989 Aug;11(3):200–5

Microcirculation of the dental pulp and its autonomic control. Kim S, et al. **Proc Finn Dent Soc** 1989;85(4–5):279–87

CYTOLOGY

Cell renewal and ground substance formation in replanted cat teeth. Kvinnsland I, et al. **Acta Odontol Scand** 1990 Jun;48(3):203–15

A scanning electron microscope study of human pulp fibroblasts in culture. Karim A. **Anat Anz** 1989;169(2):81–7

Identification of lymphocyte antigens in human dental pulps. Grégoire G, et al. **J Oral Pathol Med** 1990 Jul;19(6):246–50

A simple in vito cytotoxicity test using the MTT (3–(4,5)–dimethylthiazol–2–yl)–2,5–diphenyl tetrazolium bromide) colorimetric assay: analysis of eugenol toxicity on dental pulp cells (RPC–C2A). Kasugai S, et al. **Jpn J Pharmacol** 1990 Jan;52(1):95–100

[Functional morphology of pulp tissue] Heine H, et al. **Z Mikrosk Anat Forsch** 1989;103(3):367–75 (Eng. Abstr.) **(Ger)**

[Immortalization of human dental pulp cells with transfecting of the plasmid, pMT1–neo] Rikitake Y. **Kokubyo Gakkai Zasshi** 1989 Dec;56(4):540–61 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Human pulp reactions to resin restorations performed with different acid–etch restorative procedures. Qvist V, et al. **Acta Odontol Scand** 1989 Oct;47(5):253–63

Effects of zinc oxide–eugenol on leucocyte number and lipoxygenase products in artificially inflamed rat dental pulp. Hashimoto S, et al. **Arch Oral Biol** 1990;35(2):87–93

Effects of transforming growth factor–beta and epidermal growth factor on clonal rat pulp cells. Liang RF, et al. **Arch Oral Biol** 1990;35(1):7–11

Pulpal responses to ionomer cements—biological characteristics. Stanley HR. **J Am Dent Assoc** 1990 Jan; 120(1):25–9 (72 ref.)

Pulp response to a composite resin inserted in deep cavities with and without a surface seal. Fuks AB, et al. **J Prosthet Dent** 1990 Feb;63(2):129–34

[Experimental study on toxicity to pulp treated by phenolic aldehyde resin] Lu CY. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Mar; 24(2):110–1 **(Chi)**

[Substitute model of an in–vitro biological trials. I. Standardized method using human pulp cells] Christen O, et al. **J Biol Buccale** 1989 Dec;17(4):275–84 (Eng. Abstr.) **(Fre)**

[Substitute model for in–vitro biological testing. II. Quantitative evaluation of the biocompatibility of dental products] Regad C, et al. **J Biol Buccale** 1989 Dec; 17(4):285–95 (Eng. Abstr.) **(Fre)**

[Histological studies of the pulpal reaction in an animal experiment following the application of a light–hardening resin] Stein M, et al. **Zahn Mund Kieferheilkd** 1990; 78(2):139–40 **(Ger)**

[Possibilities of testing the biological acceptability of composite filling materials, with special reference to the microscopic test for pulp vitality. Review of the literature] Nyárasdy I. **Fogorv Sz** 1990 Aug;83(8):247–52 (Eng. Abstr.) **(Hun)**

[Histological study of the pulp–damaging effect of composite filling materials in dog teeth] Urbizo Vélez J, et al. **Fogorv Sz** 1988 Oct;81(10):301–5 (18 ref.) (Eng. Abstr.) **(Hun)**

[The use of the medical glue cyacrin for the fixation of parapulpar pins] Makeev VF, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):76–7 **(Rus)**

ENZYMOLOGY

Activation of calcium ion–dependent proteinases by bradykinin in dental pulp of the rat. Kudo T, et al. **Adv Exp Med Biol** 1989;247B:627–31

Determination of proline iminopeptidase activity in bovine dental germs by high–performance liquid chromatography. Harada M, et al. **J Chromatogr** 1990 Apr 27;527(1):158–62

Properties of alkaline phosphatase of the human dental pulp. Goseki M, et al. **J Dent Res** 1990 Mar;69(3):909–12

[The identification of esterase D isoenzyme (EsD) phenotypes in the dental pulp by isoelectric focusing] De Leo D, et al. **Minerva Stomatol** 1990 Jun;39(6):435–8 (Eng. Abstr.) **(Ita)**

INJURIES

CO2 laser application to the mineralized dental tissues—the possibility of iatrogenic sequelae. Jeffrey IW, et al. **J Dent** 1990 Feb;18(1):24–30 (39 ref.)

Dentinal temperature transients caused by exposure to CO2 laser irradiation and possible pulpal damage. Jeffrey IW, et al. **J Dent** 1990 Feb;18(1):31–6

Temperature rise in the pulp chamber during fabrication of provisional crowns. Tjan AH, et al. **J Prosthet Dent** 1989 Dec;62(6):622–6

[Anterior tooth trauma—the endodontic aspects] Einwag J. **Fortschr Kieferorthop** 1990 Jun;51(3):133–7 (9 ref.) (Eng. Abstr.) **(Ger)**

INNERVATION

Responses of pulpal nerves to cavity preparation in rat molars: an immunohistochemical study using neurofilament protein (NFP) antiserum. Sato O. **Arch Histol Cytol** 1989 Oct;52(4):433–46

Reduction in sympathetic neuronotrophic activity in the pulp of the cat canine tooth after denervation. Naftel JP. **Arch Oral Biol** 1989;34(6):453–8

Changes in CGRP–immunoreactive nerve fibres during experimental tooth movement in rats. Kvinnsland I, et al. **Eur J Orthod** 1990 Aug;12(3):320–9

Effects of tractotomy on nociceptive reactions induced by tooth pulp stimulation in the rat. Dallel R, et al. **Exp Neurol** 1989 Oct;106(1):78–84

Afferent C fibre innervation of cat tooth pulp: confirmation by electrophysiological methods. Jyväsjärvi E, et al. **J Physiol (Lond)** 1989 Apr;411:663–75

Neurolectic correlates of nonsteroidal analgesia. O'Connor S, et al. **NIDA Res Monogr** 1989;95:397–8

Sympathetic–sensory axon to axon contacts in the dental pulp. Holland GR. **Proc Finn Dent Soc** 1989;85(4–5):375–8

Peptidergic control of the autonomic regulation system in the orofacial region. Lundberg JM. **Proc Finn Dent Soc** 1989;85(4–5):239–50 (81 ref.)

Autonomic mechanisms in oral sensations. Matthews B. **Proc Finn Dent Soc** 1989;85(4–5):365–73 (25 ref.)

Reflex responses in the digastric and tongue muscles to stimulation of intradental nerves in the cat. Närhi M, et al. **Proc Finn Dent Soc** 1989;85(4–5):383–7

Interaction between the autonomic and sensory nerves in the dental pulp. Närhi M. **Proc Finn Dent Soc** 1989; 85(4–5):389–93 (33 ref.)

METABOLISM

Detection and characterization of interleukin–1 in human dental pulps. D'Souza R, et al. **Arch Oral Biol** 1989; 34(5):307–13

Is cathepsin B an enkephalin processing enzyme in the tooth pulp? Kudo T, et al. **Prog Clin Biol Res** 1990;328:271–4

Characteristics of BANA–degrading enzyme in the tooth pulp activated by bradykinin. Kudo T, et al. **Prog Clin Biol Res** 1990;328:275–8

[Interaction between bradykinin and enkephalins in rat dental pulp] Wei EQ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):500–3 (Eng. Abstr.) **(Chi)**

MICROBIOLOGY

HIV in the dental pulp [letter; comment] Archibald D. **J Am Dent Assoc** 1990 May;120(5):476 Comment on: J Am Dent Assoc 1989 Nov;119(5):649–50.

Detection of HIV in the dental pulp of a patient with AIDS [see comments] Glick M, et al. **J Am Dent Assoc** 1989 Nov; 119(5):649–50 Comment in: J Am Dent Assoc 1990 May;120(5):476.

PATHOLOGY

Cellular reactions in pulpal and periodontal tissues after periodontal wound debridement. Berg JO, et al. **J Clin Periodontol** 1990 Mar;17(3):165–73

Histopathologic effects of various electric dosage on the dental pulp of the monkey with iontophoresis. Lan WH. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar;88(3):264–71

PHYSIOLOGY

A comparison of pulpal and tactile detection threshold levels in young adults. Torneck CD, et al. **Am J Orthod Dentofacial Orthop** 1989 Oct;96(4):302–11

In vitro mineralization of a three–dimensional collagen matrix by human dental pulp cells in the presence of chondroitin sulphate. Bouvier M, et al. **Arch Oral Biol** 1990;35(4):301–9

A comparison of monopolar and bipolar electrical stimuli and thermal stimuli in determining the vitality of human teeth. Moody AB, et al. **Arch Oral Biol** 1989;34(9):701–5

Dental materials and dental pulp [letter] Martin AP. **Aust Dent J** 1990 Jun;35(3):301–2

A long–term study of 370 autotransplanted premolars. Part II. Tooth survival and pulp healing subsequent to transplantation. Andreasen JO, et al. **Eur J Orthod** 1990 Feb;12(1):14–24

Measurement of pulp temperature increase to externally applied heat (argon laser, hot water, drilling). Renneboog–Squilbin C, et al. **J Biol Buccale** 1989 Sep; 17(3):179–86

Inductive influences of demineralized dentin and bone matrix on pulp cells: an approach of secondary dentinogenesis. Tziafas D, et al. **J Dent Res** 1990 Jan;69(1):75–81

'Real time' transient averaging of cardiac synchronised signals and its application to the tooth pulse. Boyd EG, et al. **Med Biol Eng Comput** 1990 Jan;28(1):84–8

Autonomic regulation of orofacial function. IUPS Satellite Symposium. Kuopio, Finland, July 5–7, 1989. **Proc Finn Dent Soc** 1989;85(4–5):239–419

[The effect of pulp extirpation on the function of the hard dental tissues] Lagutina NIa, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):13–6 (Eng. Abstr.) **(Rus)**

[Thresholds of the electrical excitability of the pulp in various groups of teeth and their changes under the influence of analgin, amidopyrine and diazepam] Moroz BT, et al. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):30–2 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Pulpal and root sensitivity rated to periodontal therapy. Wallace JA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):743–7

[The significance of endogenous peptides for dental pulp pain] Göres M, et al. **Zahn Mund Kieferheilkd** 1989; 77(6):531–6 (44 ref.) (Eng. Abstr.) **(Ger)**

RADIATION EFFECTS

Carbon dioxide laser oral safety parameters for teeth. Powell GL, et al. **Lasers Surg Med** 1990;10(4):389–92

[The effect of irradiation using a linear accelerator on the dentognathic system of white rats] Cai JJ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Mar; 24(2):98–100, 128 (Eng. Abstr.) **(Chi)**

TRANSPLANTATION

Morphogenesis of mineralized tissues induced by neonatal mouse molar pulp isografts in the spleen. Ishizeki K, et al. **Arch Oral Biol** 1989;34(6):465–73

ULTRASTRUCTURE

An ultrastructural study of the process of hard tissue formation in amputated dental pulp dressed with alpha–tricalcium phosphate. Ikami K, et al. **Arch Histol Cytol** 1990 May;53(2):227–43

A transmission electron microscope study of fibroblast changes in human deciduous tooth pulp. Dard M, et al. **Arch Oral Biol** 1989;34(4):223–8

An ultrastructural study of the differentiation of mesenchymal cells in implants of allogeneic dentine matrix on the amputated dental pulp of the dog. Nakashima M. **Arch Oral Biol** 1990;35(4):277–81

Brushite in the pulp of primary molars. Arys A, et al. **J Oral Pathol Med** 1989 Aug;18(7):371–6

Scanning electron microscope observations on collagen fibers in human dentin and pulp. Sögaard–Pedersen B, et al. **Scand J Dent Res** 1990 Apr;98(2):89–95

[Morphological research on the dental pulp of the calf] Vernole B, et al. **Minerva Stomatol** 1990 Mar;39(3):175–80 (Eng. Abstr.) **(Ita)**

DENTAL PULP CALCIFICATION

CHEMICALLY INDUCED

Root canal calcification associated with prednisone therapy: a case report. Gold SI. **J Am Dent Assoc** 1989 Oct; 119(4):523–5

PATHOLOGY

Brushite in the pulp of primary molars. Arys A, et al. **J Oral Pathol Med** 1989 Aug;18(7):371–6

[Dental pulp petrifaction with signs of active growth] Per'kova NI, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug; 68(4):75–6 **(Rus)**

DENTAL PULP CAPPING

see related

CALCIUM HYDROXIDE

Pulp capping: conserving the dental pulp—can it be done? Is it worth it? Stanley HR. **Oral Surg Oral Med Oral Pathol** 1989 Nov;68(5):628–39 (105 ref.)

[Substitute model for in–vitro biological testing. II. Quantitative evaluation of the biocompatibility of dental products] Regad C, et al. **J Biol Buccale** 1989 Dec; 17(4):285–95 (Eng. Abstr.) **(Fre)**

ECONOMICS

Placement of cast restorations over direct pulp capping procedures: a decision analytic approach. Maryniuk GA, et al. **J Am Dent Assoc** 1990 Feb;120(2):183–7

METHODS

Healing of primate dental pulps capped with Teflon. Heys DR, et al. **Oral Surg Oral Med Oral Pathol** 1990 Feb; 69(2):227–37

DENTAL PULP CAVITY

Retrograde removal of fractured endodontic instruments. Yeo JF, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):594–8

Method for constructing standardized simulated root canals. Schulz–Bongert U, et al. **J Dent Educ** 1990 Jun; 54(6):328–30

Beads. Subbareddy VV, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):769–70

ABNORMALITIES

Reliability in estimating taurodontism of permanent molars from orthopantomograms. Tulensalo T, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):258–62

Taurodontism in 45,X females. Varrela J, et al. **J Dent Res** 1990 Feb;69(2):494–5

The prevalence of taurodontism in Down's syndrome. Bell J, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):467–76

Aarskog syndrome. A case report. Dayal PK, et al. **Oral Surg Oral Med Oral Pathol** 1990 Mar;69(3):403–5

Scanning electron microscopic investigation of maxillary lateral incisors with a radicular lingual groove. Gao ZR, et al. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4):462–6

ANATOMY & HISTOLOGY

Statistical models for evaluating the penetrating ability of endodontic instruments. Fuchs C, et al. **J Dent Res** 1990 Sep;69(9):1617–21

A silicone model method to compare three methods of

preparing the root canal. Goldman M, et al. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4):457–61

Root complex and root canal system: a correlation analysis using one-rooted mandibular second molars. Carlsen O. **Scand J Dent Res** 1990 Aug;98(4):273–85

[The dimensions of the roots and root canals of human premolars and molars] Pavliuk VM, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):12–3 (Eng. Abstr.) (Rus)

MICROBIOLOGY

Scanning electron microscope study on the action of endodontic irrigants on bacteria invading the dentinal tubules. Gutiérrez JH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):491–501

Analysis of positive cultures from endodontically treated teeth: a retrospective study. Stern MH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Mar;69(3):366–71

[Microbiological study of the root canal content in teeth with periapical granuloma] Márton I, et al. **Fogorv Sz** 1988 Aug; 81(8):245–8 (Eng. Abstr.) (Hun)

PATHOLOGY

Root morphology of mandibular premolars in human 45,X females. Varrela J. **Arch Oral Biol** 1990;35(2):109–12

Dental histology in familial expansile osteolysis. Mitchell CA, et al. **J Oral Pathol Med** 1990 Feb;19(2):65–70

RADIOGRAPHY

[Root canal obturation based on Sealapex calcium hydroxide. A clinical and radiological follow-up after 1 year] Verdon C, et al. **Schweiz Monatsschr Zahnmed** 1990;100(7):829–34 (Eng. Abstr.) (Fre)

ULTRASTRUCTURE

[Scanning electron microscopic studies on the efficacy of irrigated, hand root canal preparation] Klimm W, et al. **Zahn Mund Kieferheilkd** 1990;78(3):231–4 (Eng. Abstr.) (Ger)

DENTAL PULP DEVITALIZATION

A comparison of apical root resorption during orthodontic treatment in endodontically treated and vital teeth. Spurrier SW, et al. **Am J Orthod Dentofacial Orthop** 1990 Feb; 97(2):130–4

ADVERSE EFFECTS

Stevens–Johnson syndrome caused by arsenic [letter] Vassileva S, et al. **Int J Dermatol** 1990 Jun;29(5):381–2

HISTORY

Dentistry on stamps. Loevy HT, et al. **J Am Dent Assoc** 1990 Feb;120(2):194

DENTAL PULP DISEASES

see related
ENDODONTICS

DIAGNOSIS

Update on endodontic diagnosis. Borsuk HH. **J Can Dent Assoc** 1990 Jun;56(6):513–6

Rapid furcation involvement associated with a devitalizing mandibular first molar. A case report. Reeh ES, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jan;69(1):95–8

HISTORY

Periodontal defects of pulpal origin: evidence in early man. Clarke NG. **Am J Phys Anthropol** 1990 Jul;82(3):371–6

PATHOLOGY

[Functional morphology of pulp tissue] Heine H, et al. **Z Mikrosk Anat Forsch** 1989;103(3):367–75 (Eng. Abstr.) (Ger)

THERAPY

[Selected problems in the biological treatment of dental pulp] Bachanek T, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1985;40:231–4 (Eng. Abstr.) (Pol)

VETERINARY

[Endodontics in horses. An experimental study] Garcia F, et al. **Zentralbl Veterinarmed [A]** 1990 Apr;37(3):205–14 (Eng. Abstr.) (Spa)

DENTAL PULP GANGRENE

ETIOLOGY

Tooth pulp changes following Le Fort I maxillary osteotomy in a primate model. Browne RM, et al. **Br J Oral Maxillofac Surg** 1990 Feb;28(1):1–7

SURGERY

Apical violation in periapical "area" cases. Blasphemy or therapy? Esposito JV. **Dent Clin North Am** 1990 Jan; 34(1):171–8 (36 ref.)

A comparison of erythromycin and cefadroxil in the prevention of flare-ups from asymptomatic teeth with pulpal necrosis and associated periapical pathosis. Morse DR, et al. **Oral Surg Oral Med Oral Pathol** 1990 May; 69(5):619–30

DENTAL PULP STONES see DENTAL PULP CALCIFICATION

DENTAL PULP TEST

Periodontal and pulpal conditions of abutment teeth. Status after four to eight years following the incorporation of fixed reconstructions. Reichen-Graden S, et al. **Schweiz Monatsschr Zahnmed** 1989;99(12):1381–5

METHODS

Pulpal and root sensitivity rated to periodontal therapy. Wallace JA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):743–7

[Assessment of methods to measure the vitality of dental pulp] Wang XY. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep;24(5):280–2 (Chi)

[Possibilities of testing the biological acceptability of composite filling materials, with special reference to the microscopic test for pulp vitality. Review of the literature] Nyárasdy I. **Fogorv Sz** 1990 Aug;83(8):247–52 (Eng. Abstr.) (Hun)

DENTAL RADIOGRAPHY see RADIOGRAPHY, DENTAL

DENTAL RECEPTIONISTS see DENTAL AUXILIARIES

DENTAL RECORDS

The new CDA Uniform System of Codes and List of Services. Part I—"Beginnings". Crawford PR. **Can Dent Assoc J** 1989 Oct;55(10):789–91

The new CDA uniform system of codes and list of services. Part II—What's new? Crawford PR. **Can Dent Assoc J** 1989 Nov;55(11):879–80

Can a dentist prevent being sued? Potts R. **Can Dent Assoc J** 1990 Jan;56(1):22–3

Pilot study on the feasibility of a computerized speech recognition charting system. Feldman CA, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):213–5

Dental characteristics of a large military population useful for identification. Friedman RB, et al. **J Forensic Sci** 1989 Nov;34(6):1357–64

A uniform recording method for surgical workup on study models. Crutchfield WE 2d, et al. **J Oral Maxillofac Surg** 1989 Dec;47(12):1342–3

[Letter-digit coding of the work of the dentist] Popov IuV, et al. **Voen Med Zh** 1989 Nov;(11):59–61 (Rus)

LEGISLATION & JURISPRUDENCE

[The examination about agreement or disagreement among the dental findings on personal identification (Part 2)—Especially about aging factors] Ueno M. **Nippon Hoigaku Zasshi** 1989 Dec;43(6):478–89 (Eng. Abstr.) (Jpn)

DENTAL RESTORATION, PERMANENT

see related
ACRYLIC RESINS
DENTAL MATERIALS

Mercury, selenium, and glutathione peroxidase before and after amalgam removal in man. Molin M, et al. **Acta Odontol Scand** 1990 Jun;48(3):189–202

Comparison of three techniques for measuring wear of dental restorations. Roberts MJ, et al. **Acta Odontol Scand** 1989 Dec;47(6):367–74

An evaluation of the radiopacity of composite restorative materials used in Class I and Class II cavities. van Dijken JW, et al. **Acta Odontol Scand** 1989 Dec;47(6):401–7

Proximo-occlusal composite restorations in primary molars: marginal adaptation, bacterial penetration, and pulpal reactions. Varpio M, et al. **Acta Odontol Scand** 1990 Jun; 48(3):161–7

The development of a composite restorative system. Henderson LJ, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):569–72

Methods of proximal amalgam overhang removal—a comparison of different techniques. Lim KC, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):599–602

Aesthetic anterior restorations for children and young adults. Wei SH, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):573–84 (24 ref.)

A clinical review of preventive resin restorations. Walker JD, et al. **ASDC J Dent Child** 1990 Jul–Aug;57(4):257–9 (10 ref.)

An evaluation of a rapid setting glass ionomer cement in general dental practice. Knibbs PJ, et al. **Aust Dent J** 1989 Oct;34(5):459–65

Clinical evaluation of three dentine bonding agents [see comments] Tyas MJ. **Aust Dent J** 1989 Dec;34(6):559–62 Comment in: Aust Dent J 1990 Apr;35(2):185.

Correlation between fracture properties and clinical performance of composite resins in Class IV cavities. Tyas MJ. **Aust Dent J** 1990 Feb;35(1):46–9

Reported use of sealant restorations in a group of general practitioners in the west of Scotland. Paterson RC, et al. **Br Dent J** 1990 Jul 7;169(1):18–22

'Changing perceptions of the requirements of cavity preparations' [letter; comment] Roberts JF, et al. **Br Dent J** 1990 Mar 10;168(5):185–6 Comment on: Br Dent J 1990 Feb 24;168(4):138–9.

Mutans streptococci in interproximal plaque from amalgam and glass ionomer restorations. Svanberg M, et al. **Caries Res** 1990;24(2):133–6

Quality of dental restorations and dental treatment in Dutch schoolchildren. Carpay JJ, et al. **Community Dent Health** 1990 Mar;7(1):43–51

Life-span of amalgam restorations in primary molars: some results and comments on statistical analyses. Wong FS, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):248–51

Alternatives for the restoration of posterior teeth. Christensen GJ. **Int Dent J** 1989 Sep;39(3):155–61 (5 ref.)

Staining of residual caries under freshly-packed amalgam restorations exposed to tea/chlorhexidine in vitro. Kidd EA, et al. **Int Dent J** 1990 Aug;40(4):219–24

Aesthetic limits of light-cured composite resins in anterior teeth. Lambrechts P, et al. **Int Dent J** 1990 Jun;40(3):149–58

Reduction of microleakage around new amalgam restorations. Ben-Amar A. **J Am Dent Assoc** 1989 Dec; 119(6):725–8 (77 ref.)

Clinical evaluation of glass ionomer-silver cermet restorations in primary molars: one year results. Hung TW, et al. **J Can Dent Assoc** 1990 Mar;56(3):239–40

Re: 'Comments by Dr. McComb' [letter] Wood RE, et al. **J Can Dent Assoc** 1990 Mar;56(3):197–8

In vitro marginal microleakage: examination of measurements used in assessment. Youngson CC, et al. **J Dent** 1990 Jun; 18(3):142–6

Mutans streptococci in plaque from margins of amalgam, composite, and glass-ionomer restorations. Svanberg M, et al. **J Dent Res** 1990 Mar;69(3):861–4

A confocal optical microscope study of the morphology of the tooth/restoration interface using Scotchbond 2 dentin adhesive. Watson TF. **J Dent Res** 1989 Jun;68(6):1124–31

An evaluation of a rapid setting glass ionomer cement used by general dental practitioners to restore deciduous teeth. Knibbs PJ, et al. **J Oral Rehabil** 1990 Jan;17(1):1–7

Conservative posterior ceramic restorations: a literature review. Banks RG. **J Prosthet Dent** 1990 Jun;63(6):619–26 (51 ref.)

Resin-bonded fixed partial dentures for abutment teeth with existing occlusal restorations. Bloxham GP. **J Prosthet Dent** 1990 Aug;64(2):241

A matrix technique for restoring occlusolingual cavity preparations. O'Hara JW Jr. **J Prosthet Dent** 1990 Jan; 63(1):111

A clinical study of joint sounds in subjects with restored occlusions. Sidelsky H, et al. **J Prosthet Dent** 1990 May; 63(5):580–6

Changing trends in dental restorative treatment needs of naval recruits 1987–89—disease or diagnosis? Alexander DC, et al. **J R Nav Med Serv** 1989 Summer;75(2):85–91

Quantitative evaluation of proximal contacts in posterior composite restorations. Part I. Methodology. Wang JC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Jul; 5(7):404–8

Enhancement of physical properties of resin restorative materials by laser polymerization. Kelsey WP 3d, et al. **Lasers Surg Med** 1989;9(6):623–7

Impacted maxillary deciduous second molar with occlusal amalgam restoration. Schiffman LE, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):128

Prevention of enamel demineralization adjacent to glass ionomer filling materials. Forss H, et al. **Scand J Dent Res** 1990 Apr;98(2):173–8

A 3-year evaluation of Gluma and Gluma/Scotchbond for restoration of cervical erosions. van Dijken JW. **Scand J Dent Res** 1990 Aug;98(4):341–4

Comparison of backscattered scanning electron microscopy and microradiography of secondary caries. Marshall GW Jr, et al. **Scanning Microsc** 1989 Dec;3(4):1043–49; discussion 1049–50

Incisal and occlusal tooth wear and wear of some prosthodontic materials. An epidemiological and clinical study. Ekfeldt A. **Swed Dent J Suppl** 1989;65:1–62

[A study and clinical appliance of super-strength composite resins] Yu ZS. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep;24(5):276–9 (Chi)

[Bond strength of etched enamel to direct composite resins, to indirect composite resins and to etched and silanized porcelain] Prévost AP, et al. **J Can Dent Assoc** 1990 Jul; 56(7):631–5 (Eng. Abstr.) (Fre)

[Anorexia hydrargyra. A case report from general practice] Dörffer U. **Monatsschr Kinderheilkd** 1989 Aug;137(8):472 (Ger)

[The color fastness of composite fillings for the anterior teeth] Plaček M. **Schweiz Monatsschr Zahnmed** 1990;100(4):420–4 (Eng. Abstr.) (Ger)

[Qualitative marginal gap research on amalgam fillings] Weiland M, et al. **Zahn Mund Kieferheilkd** 1990;78(1):19–24 (Eng. Abstr.) (Ger)

[Condensation of elements in the polished surface of amalgam

fillings Homodent-1 and Goodfill] Szabó J, et al. **Fogorv Sz** 1990 May;83(5):139–43 (Eng. Abstr.) **(Hun)**

[Examination of the polished surface of the amalgam filling materials Homodent-1 and Goodfill] Szabó J, et al. **Fogorv Sz** 1990 May;83(5):133–8 (Eng. Abstr.) **(Hun)**

[The effect of the combined prevention of stomatologic diseases on the quality of the treatment of dental caries and the stability of fillings] Alnazarov Kh. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):59–62 (Eng. Abstr.) **(Rus)**

[Assessment of the biological properties of composite filling materials: determination of indices of their hemolytic activity and cytotoxicity] Chechina GN, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):9–12 (Eng. Abstr.) **(Rus)**

[A trial of densitometry in the objective assessment of the x-ray image of the apices of the interdental membranes in periodontal lesions] Vetoshchuk VI, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):26–9 (Eng. Abstr.) **(Rus)**

[Change of amalgam fillings. New regulations] Morawski R, et al. **Lakartidningen** 1989 Oct 4;86(40):3392–3 **(Swe)**

ADVERSE EFFECTS

Iatrogenic retropharyngeal emphysema with impending airway obstruction [see comments] Breznick DA, et al. **Arch Otolaryngol Head Neck Surg** 1989 Nov; 115(11):1367–72 Comment in: Arch Otolaryngol Head Neck Surg 1990 Jul;116(7):864.

Stomatitis and systemic dermatitis from mercury in amalgam dental restorations. Veien NK. **Dermatol Clin** 1990 Jan; 8(1):157–60

The prevalence of overhanging margins in posterior amalgam restorations and periodontal consequences. Pack AR, et al. **J Clin Periodontol** 1990 Mar;17(3):145–52

Periodontal response to long-term abuse of the gingival attachment by supracrestal amalgam restorations. Tal H, et al. **J Clin Periodontol** 1989 Nov;16(10):654–9

The caries status of occlusal amalgam restorations with marginal defects. Kidd EA, et al. **J Dent Res** 1990 Jun; 69(6):1275–7

Cuspal flexure associated with amalgam restorations. Assif D, et al. **J Prosthet Dent** 1990 Mar;63(3):258–62

Reducing marginal leakage of posterior composite resin restorations: a review of clinical techniques. Cheung GS. **J Prosthet Dent** 1990 Mar;63(3):286–8 (41 ref.)

Oral mucosal lesions related to silver amalgam restorations. Bolewska J, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):55–8

Patients complaining about amalgam-related symptoms suffer more often from illnesses and chronic craniofacial pain than their controls. Meurman JH, et al. **Scand J Dent Res** 1990 Apr;98(2):167–72

Relationship between oral symptoms, salivary function, smoking habits and general health in patients with complaints related to dental restorative materials. Lothigius E, et al. **Swed Dent J** 1989;13(6):245–54

CLASSIFICATION

Class I and II composite resin restorations: 4-year clinical follow up. Lundin SA, et al. **Swed Dent J** 1989;13(6):217–27

ECONOMICS

Fee scales [letter] Jones CS. **Br Dent J** 1989 Oct 21;167(8):266

INSTRUMENTATION

Tempering as a means to strengthen porcelain-fused-to-metal restorations. DeHoff PH, et al. **Biomed Sci Instrum** 1990;26:167–74

The application of real-time confocal microscopy to the study of high-speed dental-bur-tooth-cutting interactions. Watson TF. **J Microsc** 1990 Jan;157 (Pt 1):51–60

[The Cerec system (interview by Michel Perrier)] Mörmann WH. **Schweiz Monatsschr Zahnmed** 1990;100(8):1004–5 **(Fre)**

[An in vitro test procedure for evaluating dental restoration systems. 1. A computer-controlled mastication simulator] Krejci I, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(8):953–60 (Eng. Abstr.) **(Ger)**

[A polarization-interference method for research on functional stresses in the hard tissues of pathologically worn teeth restored with cast inserts] Balabanovskii RB, et al. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):67–70 (Eng. Abstr.) **(Rus)**

METHODS

Human pulp reactions to resin restorations performed with different acid-etch restorative procedures. Qvist V, et al. **Acta Odontol Scand** 1989 Oct;47(5):253–63

Time required for placement of composite versus amalgam restorations. Dilley DC, et al. **ASDC J Dent Child** 1990 May–Jun;57(3):177–83

A comparison of glass cermet cement and amalgam restorations in primary molars. Hickel R, et al. **ASDC J Dent Child** 1990 May–Jun;57(3):184–8

Management of the small child with gross caries [letter; comment] Webb TC. **Br Dent J** 1989 Aug 19;167(4):122 Comment on: Br Dent J 1989 Jun 24;166(12):436–7.

Authors and correspondent 'missed the central issue' [letter] Stevenson-Moore P. **Can Dent Assoc J** 1989 Dec; 55(12):961

Treatment modalities for primary incisors. Weinberger SJ. **Can Dent Assoc J** 1989 Oct;55(10):807–12 (15 ref.)

Controversies in posterior composite resin restorations. Wilson EG, et al. **Dent Clin North Am** 1990 Jan;34(1):27–44 (40 ref.)

Glass ionomer as a luting material. Christensen GJ. **J Am Dent Assoc** 1990 Jan;120(1):59–62

Restoring a tooth with massive internal resorption to form and function: report of case. Herrin HK, et al. **J Am Dent Assoc** 1990 Aug;121(2):271–2, 274

Microconservative restorations for approximal carious lesions. Hunt PR. **J Am Dent Assoc** 1990 Jan;120(1):37–40 (31 ref.)

Restorations of eroded areas. Mount GJ. **J Am Dent Assoc** 1990 Jan;120(1):31–5

Glass ionomer–composite sandwich technique. Suzuki M, et al. **J Am Dent Assoc** 1990 Jan;120(1):55–7

A retrospective analysis of the perio-prosthetic aspect of teeth re-prepared during periodontal surgery. Carnevale G, et al. **J Clin Periodontol** 1990 May;17(5):313–6

Microleakage in restorations with glass ionomer liners after thermocycling. Arcoria CJ, et al. **J Dent** 1990 Apr; 18(2):107–12

An in vitro investigation of the effects of glass inserts on the effective composite resin polymerization shrinkage. Donly KJ, et al. **J Dent Res** 1989 Aug;68(8):1234–7

Complete marginal seal of Class V resin composite restorations effected by increased flexibility. Kemp-Scholte CM, et al. **J Dent Res** 1990 Jun;69(6):1240–3

Stiffness of endodontically-treated teeth related to restoration technique. Reeh ES, et al. **J Dent Res** 1989 Nov;68(11):1540–4

The effect of posterior composite restorations on the resistance of cavity walls to vertically applied occlusal loads. Liberman R, et al. **J Oral Rehabil** 1990 Jan; 17(1):99–105

Clinical evaluation of two posterior composite resins: two-year results. Stangel I, et al. **J Oral Rehabil** 1990 May; 17(3):257–68

A combined amalgam and composite resin restoration. Cardash HS, et al. **J Prosthet Dent** 1990 May;63(5):502–5

Emergence profiles in natural tooth contour. Part II: Clinical considerations. Croll BM. **J Prosthet Dent** 1990 Apr; 63(4):374–9

Matrices in metal ceramics. Kucey BK. **J Prosthet Dent** 1990 Jan;63(1):32–7

Marginal leakage in class V composite resin restorations with glass ionomer liners in vitro. Mathis RS, et al. **J Prosthet Dent** 1990 May;63(5):522–5

A medicated polycarboxylate cement to prevent complications in composite resin therapy. Okamoto Y, et al. **J Prosthet Dent** 1990 Jan;63(1):37–40

Microleakage of extended and nonextended Class I composite resin and sealant restorations. Penning C, et al. **J Prosthet Dent** 1990 Aug;64(2):131–4

Clinical evaluation of two posterior composite resins retained with bonding agents. Shintani H, et al. **J Prosthet Dent** 1989 Dec;62(6):627–32

The effect of cavity pretreatment procedures on dentin bonding: a four-year clinical evaluation. van Dijken JW. **J Prosthet Dent** 1990 Aug;64(2):148–52

Preventing aspiration or ingestion of single fixed restorations. Wilwerding TM. **J Prosthet Dent** 1990 Apr;63(4):489

Glass ionomers in proximal cavities of primary molars. Forsten L, et al. **Scand J Dent Res** 1990 Feb;98(1):70–3

[Evaluation of the effect of glass ionomer liner on microleakage of light-curing composite resin restoration] Huang SK, et al. **Chang Keng I Hsueh** 1989 Sep 20; 12(3):156–60 (Eng. Abstr.) **(Chi)**

[The border seal in restorations of class-V lesions with glass ionomer cement and composite (the sandwich filling)] Hänggi D, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(1):29–37 (Eng. Abstr.) **(Ger)**

[Glass ionomer cement as dental filling material] Ferber F, et al. **Fogorv Sz** 1990 May;83(5):129–32 (30 ref.) **(Hun)**

[The use of Cyacrin medical glue as an insulating coating in the filling of hard tissue defects of the teeth] Makeev VF, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):72–3 **(Rus)**

PSYCHOLOGY

Patients' preference for exodontia versus preservation in Malaysia. Razak IA, et al. **Community Dent Oral Epidemiol** 1990 Jun;18(3):131–2

Some variables affecting dentists' assessment of patients' distress. Baron RS, et al. **Health Psychol** 1990;9(2):143–53

STANDARDS

Guidelines for the restoration of endodontically treated teeth. Robbins JW. **J Am Dent Assoc** 1990 May;120(5):558, 560, 562 passim (94 ref.)

Increase in compressive strength of glass ionomer restorative materials with respect to time: a guide to their suitability for use in posterior primary dentition. Williams JA, et al. **J Oral Rehabil** 1989 Sep;16(5):475–9

Metal ceramic compatibility: a review of the literature. Bagby M, et al. **J Prosthet Dent** 1990 Jan;63(1):21–5 (87 ref.)

Quality evaluation of anterior restorations in private practice. Allander L, et al. **Swed Dent J** 1989;13(4):141–50

[Amalgam maintenance. Maintenance of amalgam fillings: polishing, reburnishing, restoration or replacement?] Barbakow F, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(10):1151–63 **(Ger, Fre)**

STATISTICS & NUMERICAL DATA

Survival analysis of amalgam restorations in long-term recall patients. Bjertness E, et al. **Acta Odontol Scand** 1990 Apr; 48(2):93–7

A survey of the pattern of private general dental practice in Queensland. Spratley MH, et al. **Aust Dent J** 1989 Oct; 34(5):474–7

Longevity of posterior restorations. Mjör IA, et al. **Int Dent J** 1990 Feb;40(1):11–7 (40 ref.)

Composite resin esthetic dentistry survey in New England. Reinhardt JW, et al. **J Am Dent Assoc** 1990 May; 120(5):541–4

The prevalence of overhanging dental restorations and their relationship to periodontal disease. Brunsvold MA, et al. **J Clin Periodontol** 1990 Feb;17(2):67–72 (38 ref.)

Accuracy in radiographic diagnosis: Dutch practitioners and dental caries. Mileman PA, et al. **J Dent** 1990 Jun; 18(3):130–6

Clinical behaviour of high-copper amalgams with time, site, size and class of cavity preparation. Smales RJ, et al. **J Dent** 1990 Feb;18(1):49–53

Prevalence and need for replacement of amalgam and composite restorations in Dutch adults. Kroeze HJ, et al. **J Dent Res** 1990 Jun;69(6):1270–4

Survival studies of dental restorations: criteria, methods and analyses. Leempoel PJ, et al. **J Oral Rehabil** 1989 Jul; 16(4):387–94

Diagnosis of caries and treatment decisions in approximal surfaces of posterior teeth in vitro. Noar SJ, et al. **J Oral Rehabil** 1990 May;17(3):209–18

TRENDS

Restoring the oral health of the child. Davis MJ. **ASDC J Dent Child** 1990 Jan–Feb;57(1):56–65 (100 ref.)

DENTAL RESTORATION, TEMPORARY

see related
ACRYLIC RESINS
DENTAL MATERIALS

METHODS

A provisional restorative technique for laminate veneer preparations [letter; comment] Bao NL. **J Prosthet Dent** 1990 May;63(5):602–3 Comment on: J Prosthet Dent 1989 Aug;62(2):139–42.

A provisional and new crown to fit into a clasp of an existing removable partial denture. Elledge DA, et al. **J Prosthet Dent** 1990 May;63(5):541–4

Sealing ability of intermediate restorations and cavity design used in endodontics. Barkhordar RA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jan;69(1):99–101

DENTAL SAC see under **TOOTH GERM**

DENTAL SEALANTS see **PIT AND FISSURE SEALANTS**

DENTAL SERVICE, HOSPITAL

'Wisdom tooth waiting lists' [letter; comment] Flasher HA. **Br Dent J** 1990 Jan 20;168(2):51–2 Comment on: Br Dent J 1989 Dec 9–23;167(11):371.

Are you being served? A survey of the opinions of general medical practitioners who refer patients to Bristol Dental Hospital. Levers BG, et al. **Bristol Med Chir J** 1989 Feb; 104(1):15–6

Modification of procedures to provide for prosthetic rehabilitation in a hospital inpatient. Waldron JM, et al. **N Y State Dent J** 1990 Mar;56(3):24–6 (11 ref.)

[The work of our orthodontic department] Vizkelety T, et al. **Fogorv Sz** 1988 Jun;81(6):179–81 (Eng. Abstr.) **(Hun)**

DENTAL STAFF

Relation between mercury and selenium in pituitary glands of dental staff [letter] Nylander M, et al. **Br J Ind Med** 1989 Oct;46(10):751–2

Mercury excretion and occupational exposure of dental personnel. Jokstad A. **Community Dent Oral Epidemiol** 1990 Jun;18(3):143–8

Studies on contact dermatitis in stomatological staff. Berova N, et al. **Dermatol Monatsschr** 1990;176(1):15–8

The need for nutritionists: a survey of dental practitioners. Stager SC, et al. **J Am Diet Assoc** 1990 Jan;90(1):100–2

Staff recruitment—maximizing your most important resource. Dahl RP. **J Can Dent Assoc** 1990 Apr;56(4):309–10

Normal pituitary hormone response to thyrotrophin releasing hormone in dental personnel exposed to mercury. Langworth S, et al. **Swed Dent J** 1990;14(2):101–3

EDUCATION

The government's response to AIDS. Palmer C. **J Am Dent Assoc** 1989 Oct;119(4):507–12

A comparison of in-service teaching methods on clinic aspesis for dental personnel. Fotos PG, et al.

J Dent Educ 1990 Apr;54(4):248–9

PSYCHOLOGY

Increasing acceptance of hepatitis B vaccine by dental personnel but reluctance to accept hepatitis B carrier patients. Scully C, et al. Oral Surg Oral Med Oral Pathol 1990 Jan;69(1):45–7

DENTAL STAFF, HOSPITAL

The shortage of consultant posts [letter] [see comments] Br J Oral Maxillofac Surg 1989 Oct;27(5):435–7 Comment in: Br J Oral Maxillofac Surg 1990 Feb;28(1):67.

The Senior Registar Orthodontic Group. Cook PA. Br J Orthod 1989 Nov;16(4):289–90

EDUCATION

Criteria for approval of training programmes for senior registrars in orthodontics in the United Kingdom. Orton HS. Br J Orthod 1989 Nov;16(4):285–8

DENTAL STONE, ARTIFICIAL see CALCIUM SULFATE

DENTAL STRESS ANALYSIS

The influence of the SPEED bracket's self-ligating design on force levels in tooth movement: a comparative in vitro study. Berger JL. Am J Orthod Dentofacial Orthop 1990 Mar;97(3):219–28

An in vitro evaluation of bond strength of three glass ionomer cements. Fajen VB, et al. Am J Orthod Dentofacial Orthop 1990 Apr;97(4):316–22

Dentine bonding. Fédération Dentaire Internationale Technical Report No. 35. Int Dent J 1990 Apr;40(2):127–8

The effect of placement technique upon the compressive strength and porosity of a composite resin. Chadwick RG, et al. J Dent 1989 Oct;17(5):230–3

Influence of tempering and contraction mismatch on crack development in ceramic surfaces. Anusavice KJ, et al. J Dent Res 1989 Jul;68(7):1182–7

Effect of firing temperature and water exposure on crack propagation in unglazed porcelain. Anusavice KJ, et al. J Dent Res 1989 Jun;68(6):1075–81

Transient and residual stress in a porcelain–metal strip. Asaoka K, et al. J Dent Res 1990 Feb;69(2):463–9

An in vitro investigation of the effects of glass inserts on the effective composite resin polymerization shrinkage. Donly KJ, et al. J Dent Res 1989 Aug;68(8):1234–7

Relaxation of polymerization contraction shear stress by hygroscopic expansion. Feilzer AJ, et al. J Dent Res 1990 Jan;69(1):36–9

Increased wall to wall curing contraction in thin bonded resin layers [letter; comment] Mahler DB. J Dent Res 1990 Mar; 69(3):913–4 Comment on: J Dent Res 1989 Jan;68(1):48–50.

Stiffness of endodontically-treated teeth related to restoration technique. Reeh ES, et al. J Dent Res 1989 Nov;68(11):1540–4

Effect of etching glass–ionomer cements on bond strength to composite resin. Sheth JJ, et al. J Dent Res 1989 Jun; 68(6):1082–7

A three-dimensional evaluation of the effects of functional occlusal forces on the morphology of dental and periodontal tissues of the rat incisor. Steigman S, et al. J Dent Res 1989 Aug;68(8):1269–74

Amalgam margin breakdown caused by creep fatigue rupture. Williams PT, et al. J Dent Res 1989 Jul; 68(7):1188–93

Monomer composition and bond strength of light-cured 4-META opaque resin. Yoshida K, et al. J Dent Res 1990 Mar;69(3):849–51

The effect of diameter and length of hydroxylapatite-coated dental implants on ultimate pullout force in dog alveolar bone. Block MS, et al. J Oral Maxillofac Surg 1990 Feb; 48(2):174–8

The effect of repetitive screw hole use on the retentive strength of pretapped and self-tapped screws. Foley WL, et al. J Oral Maxillofac Surg 1990 Mar;48(3):264–7

Finite element analysis of three- and four-unit bridges. Farah JW, et al. J Oral Rehabil 1989 Nov;16(6):603–11

The effect of three different surface treatments on the tensile strength of the resin bond to nickel-chromium-beryllium alloy. Kohli S, et al. J Prosthet Dent 1990 Jan;63(1):4–8

Three-dimensional photoelastic stress analysis of the ferrule effect in cast post and cores. Loney RW, et al. J Prosthet Dent 1990 May;63(5):506–12

Biting strength and chewing forces in complete denture wearers. Michael CG, et al. J Prosthet Dent 1990 May; 63(5):549–53

A finite element survey of eleven endosseous implants. Rieger MR, et al. J Prosthet Dent 1990 Apr;63(4):457–65

[A biomechanical test of the rigidity of pin fixation in the root canals of human premolars and molars] Pavliuk VM, et al. Stomatologiia (Mosk) 1990 May–Jun;69(3):56–7 (Eng. Abstr.) (Rus)

INSTRUMENTATION

Temporomandibular joint forces measured at the condyle of Macaca arctoides. Boyd RL, et al. Am J Orthod Dentofacial Orthop 1990 Jun;97(6):472–9

Measurement of intraoral muscle forces during functional exercises. Lindeman DE, et al. Am J Orthod Dentofacial Orthop 1990 Apr;97(4):289–300

The anterior component of occlusal force. Part 1. Measurement and distribution [see comments] Southard TE, et al. Am J Orthod Dentofacial Orthop 1989 Dec; 96(6):493–500 Comment in: Am J Orthod Dentofacial Orthop 1990 May;97(5):24A–25A.

Human bite force discrimination using specific maxillary and mandibular teeth. Coffey JP, et al. J Oral Rehabil 1989 Nov;16(6):529–36

Cuspal flexure associated with amalgam restorations. Assif D, et al. J Prosthet Dent 1990 Mar;63(3):258–62

Multidimensional internal setting expansion of a phosphate-bonded casting investment measured with strain gauges. Engler RA, et al. J Prosthet Dent 1990 Mar; 63(3):353–8

METHODS

Finite element analysis of six endosseous implants. Rieger MR, et al. J Prosthet Dent 1990 Jun;63(6):671–6

[The finite element analysis of the bicuspid and molar of mandible] Zhao YF, et al. Hua Hsi I Ko Ta Hsueh Hsueh Pao 1989 Sep;20(3):311–4 (Eng. Abstr.) (Chi)

STATISTICS & NUMERICAL DATA

An investigation of test-house variability in the mechanical testing of dental materials and the statistical treatment of results. McCabe JF, et al. J Dent 1990 Apr;18(2):90–7

DENTAL TECHNICIANS

Occupational contact dermatitis in 2 dental technicians. Farli M, et al. Contact Dermatitis 1990 May;22(5):282–7

Respiratory ill-health in dental laboratory technicians: a comparative study of GP consultation rates. Sheikh ME, et al. J Soc Occup Med 1990 Summer;40(2):68–70

Finger receptor dysfunction in dental technicians exposed to high-frequency vibration. Hjortsberg U, et al. Scand J Work Environ Health 1989 Oct;15(5):339–44

[Cooperation between dentist and dental technician. Round-table discussion] Schweiz Monatsschr Zahnmed 1989;99(10):1193–8,1203–10 (Fre, Ger)

[Cooperation between dentist/dental technician: wishful thinking or reality?] Perret JB. Schweiz Monatsschr Zahnmed 1989;99(10):1107, 1109 (Fre, Ger)

[Results of a questionnaire survey of pulmonary complaints of dental technicians: effect of the duration of occupational activity (total exposure time)] Kronenberger H, et al. Pneumologie 1990 Feb;44 Suppl 1:247–9 (Eng. Abstr.) (Ger)

[Results of a questionnaire survey of pulmonary complaints in dental technicians: effect of inhalation exposure to heavy metal dusts (cobalt-chromium alloys)] Schröter U, et al. Pneumologie 1990 Feb;44 Suppl 1:322–4 (Eng. Abstr.) (Ger)

DENTAL VENEERS

Clinical results with titanium crowns fabricated with machine duplication and spark erosion. Andersson M, et al. Acta Odontol Scand 1989 Oct;47(5):279–86

A 2-year follow-up study of titanium crowns. Bergman B, et al. Acta Odontol Scand 1990 Apr;48(2):113–7

Posterior composite resin: use for anterior restorations. Donly KJ. ASDC J Dent Child 1990 Jul–Aug;57(4):260–2

An investigation into the role of porcelain thickness in determining the load-carrying capacity of porcelain laminates. Hopkins K. Br Dent J 1989 Sep 23;167(6):201–4

A provisional restorative technique for laminate veneer preparations [letter; comment] Bao NL. J Prosthet Dent 1990 May;63(5):602–3 Comment on: J Prosthet Dent 1989 Aug;62(2):139–42.

Management of worn dentition with resin-bonded cast metal lingual veneering. Cheung SP, et al. J Prosthet Dent 1990 Feb;63(2):122–3

Restoration of fixed partial dentures with fractured porcelain veneers using an overcasting. Cohen B, et al. J Prosthet Dent 1989 Oct;62(4):390–2

The influence of condensation method on porosity and shade of body porcelain. Evans DB, et al. J Prosthet Dent 1990 Apr;63(4):380–9

Soldering procedure for repairing a full cast gold restoration. Kimondollo PM. J Prosthet Dent 1989 Oct;62(4):489–90

Mobile connection of veneer crowns after orthodontic closure of a wide diastema in the maxillae. A clinical report. Planert J, et al. J Prosthet Dent 1989 Oct;62(4):379–80

[Metal dentures with mulilayer protective coatings] Napadov MA, et al. Stomatologiia (Mosk) 1990 Jan–Feb;69(1):58–60 (Eng. Abstr.) (Rus)

DENTICLE see DENTAL PULP CALCIFICATION

DENTIFRICES

see related MOUTHWASHES

Clean dentures [letter] Doughty J. Br Dent J 1990 Apr 7; 168(7):277

Effect of amine fluoride/stannous fluoride-containing toothpaste and mouthrinsings on dental plaque, gingivitis, plaque and enamel F-accumulation. Bánóczy J, et al. Caries Res 1989;23(4):284–8

Effect of brushing with fluoride toothpastes on the fluoride, calcium, and inorganic phosphorus concentrations in approximal plaque of young adults. Sidi AD. Caries Res 1989;23(4):268–71

Clinical trial of a low-fluoride toothpaste for young children. Winter GB, et al. Int Dent J 1989 Dec;39(4):227–35

The effects of 0.5% chlorhexidine and 0.2% triclosan containing toothpastes on salivary bacterial counts. Jenkins S, et al. J Clin Periodontol 1990 Feb;17(2):85–9

Six-month study of the effect of a dentifrice containing zinc citrate and triclosan on plaque, gingival health, and calculus. Svatun B, et al. Scand J Dent Res 1990 Aug; 98(4):301–4

Surface changes on dental materials. The influence of two different dentifrices on surface roughness measured by laser reflexion and profilometer techniques. Johannsen G, et al. Swed Dent J 1989;13(6):267–76

[Choosing a dentifrice] Martens L. Rev Belge Med Dent 1989; 44(1):25–36 (33 ref.) (Eng. Abstr.) (Fre)

[Measurement of the abrasion of radioactive teeth by dentifrices] Hiyoshi K, et al. Radioisotopes 1990 May; 39(5):222–5 (Eng. Abstr.) (Jpn)

ADVERSE EFFECTS

Risk of enamel fluorosis associated with fluoride supplementation, infant formula, and fluoride dentifrice use. Pendrys DG, et al. Am J Epidemiol 1989 Dec; 130(6):1199–208

Sensitivity reaction to the cinnamonaldehyde component of toothpaste. Lamey PJ, et al. Br Dent J 1990 Feb 10; 168(3):115–8

Circumoral dermatitis and cheilitis caused by tartar control dentifrices. Beacham BE, et al. J Am Acad Dermatol 1990 Jun;22(6 Pt 1):1029–32

Contact stomatitis caused by toothpaste. Thyne G, et al. N Z Dent J 1989 Oct;85(382):124–6

ANALYSIS

Fluorine profiles in human enamel after in vitro treatment with dentifrices of different compositions and acidities. Petersson LG, et al. Swed Dent J 1989;13(5):177–83 (30 ref.)

PHARMACOKINETICS

Estimation of fluoride absorption from swallowed fluoride toothpastes. Drummond BK, et al. Caries Res 1990; 24(3):211–5

PHARMACOLOGY

Concentration of antimicrobial proteins in human saliva. The effect of long-term usage of a zinc-containing dentifrice on the protein composition of stimulated saliva from 198 children. Page DJ, et al. Caries Res 1990;24(3):216–9

In vitro screening of Chinese medicinal toothpastes: their effects on growth and plaque formation of mutans streptococci. Wu-Yuan CD, et al. Caries Res 1990; 24(3):198–202

Measurement of dietary and dentifrice effects upon calculus accumulation rates in the domestic ferret. Harper DS, et al. J Dent Res 1990 Feb;69(2):447–50

In vitro acid decalcification of human surface enamel pretreated with toothpaste slurries. Tadmor E, et al. J Oral Rehabil 1989 Nov;16(6):613–6

THERAPEUTIC USE

Caries-preventive effect of fluoride dentifrices with and without anticalculus agents: a 3-year controlled clinical trial. Koch G, et al. Caries Res 1990;24(1):72–9

Over-the-counter dentifrices in the treatment of tooth hypersensitivity. Review of clinical studies. Kanapka JA. Dent Clin North Am 1990 Jul;34(3):545–60 (60 ref.)

What about whiteners? Safety concerns explored. Berry JH. J Am Dent Assoc 1990 Aug;121(2):222–5

Enamel microabrasion for removal of superficial dysmineralization and decalcification defects. Croll TP. J Am Dent Assoc 1990 Apr;120(4):411–5

Reduction of calculus accumulation in domestic ferrets with two dentifrices containing pyrophosphate. Mann PH, et al. J Dent Res 1990 Feb;69(2):451–3

Effect of 6 months use of a dentifrice and oral rinse containing sanguinaria extract and zinc chloride upon the microflora of the dental plaque and oral soft tissues. Harper DS, et al. J Periodontol 1990 Jun;61(6):359–63

Clinical efficacy of a dentifrice and oral rinse containing sanguinaria extract and zinc chloride during 6 months of use. Harper DS, et al. J Periodontol 1990 Jun;61(6):352–8

[Dental calculus-inhibiting tooth pastes and mouthwashes. A review of the literature of clinical trials] Barbakow F, et al. Schweiz Monatsschr Zahnmed 1989;99(8):902–6 (29 ref.) (Eng. Abstr.) (Ger)

DENTIGEROUS CYST

Differences in in vitro growth of epithelium from inflammatory and developmental odontogenic cysts. Hume WJ, et al. Br J Oral Maxillofac Surg 1990 Apr;28(2):85–8

ANALYSIS

Melanin in a dentigerous cyst and associated adenomatoid

odontogenic tumor. Warter A, et al. **Cancer** 1990 Aug 15; 66(4):786–8 (15 ref.)

COMPLICATIONS

'The unpredictability of impacted third molar development' [letter; comment] Pearson MH, et al. **Br Dent J** 1990 Mar 24;168(6):229 Comment on: Br Dent J 1990 Feb 10;168(3):92.

EPIDEMIOLOGY

Eruption cysts: a retrograde study. Anderson RA. **ASDC J Dent Child** 1990 Mar–Apr;57(2):124–7

ETIOLOGY

Pathological changes related to long-term impaction of third molars. A radiographic study. Eliasson S, et al. **Int J Oral Maxillofac Surg** 1989 Aug;18(4):210–2

METABOLISM

Enhancement of human dental cyst PGI2 formation by platelet derived growth factor and its role in cyst growth and bone resorption. Nell A, et al. **Arch Oral Biol** 1989; 34(3):187–90

PATHOLOGY

[Expression of certain cytokeratins in the epithelium of dentigerous and primordial cysts] Gordeeff M, et al. **J Biol Buccale** 1990 Mar;18(1):59–67 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

Differential diagnosis between cyst and tumor. Dentigerous cyst and ameloblastoma containing teeth. Ikeshima A, et al. **J Nihon Univ Sch Dent** 1990 Mar;32(1):19–26

VETERINARY

The largest dental cyst. Neiburger EJ, et al. **N Y State Dent J** 1989 Nov;55(9):68, 72

DENTIN

see related

ODONTOBLASTS

Chondrogenic stimulation of embryonic chick limb mesenchymal cells by factors in bovine and human dentine extracts. Rabinowitz T, et al. **Arch Oral Biol** 1990; 35(1):49–54

High-resolution solid-state nuclear magnetic resonance spectra of dentin collagen. Fujisawa R, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):761–6

Some bonding characteristics of a HEMA/maleic acid adhesion promoter. Causton BE, et al. **Br Dent J** 1989 Nov 11;167(9):308–11

Dentine bonding. Fédération Dentaire Internationale Technical Report No. 35. **Int Dent J** 1990 Apr;40(2):127–8

Clinical biocompatibility of an experimental dentine–enamel adhesive for composites. Bowen RL, et al. **Int Dent J** 1989 Dec;39(4):247–52

Bonding to dentine with a simplified Gluma system. de Araujo PA, et al. **Int Dent J** 1989 Dec;39(4):253–7

In vitro cytotoxicity of three dentine bonding agents. Meryon SD, et al. **J Dent** 1989 Dec;17(6):279–83

Shear bond strength of light-cured glass ionomer to enamel and dentin. McCaghren RA, et al. **J Dent Res** 1990 Jan; 69(1):40–5

Long-term use of dentine adhesive as an interfacial sealer under Class II amalgam restorations. Ben-Amar A, et al. **J Oral Rehabil** 1990 Jan;17(1):37–42

Effect of substrate age on microleakage of dentine adhesive agents. Crim GA. **J Oral Rehabil** 1989 Nov;16(6):555–7

Bond durability between dentinal bonding agents and tooth structure. Davis EL, et al. **J Prosthet Dent** 1989 Sep; 62(3):253–6

The effect of cavity pretreatment procedures on dentin bonding: a four-year clinical evaluation. van Dijken JW. **J Prosthet Dent** 1990 Aug;64(2):148–52

[Effect of the resin system on dentin bond strength] Wang T. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan; 25(1):15–7, 60 (Eng. Abstr.) **(Chi)**

[Observation on enhanced adhesion to dentin by amino acid] Chen ZQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):315–6 (Eng. Abstr.) **(Chi)**

[Effects of test conditions on tensile bond strength to dentin] Guan LM, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun;20(2):128–30 (Eng. Abstr.) **(Chi)**

[States of dentine surface and interface between dentine and coupling agent] Zou Z, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):171–4 (Eng. Abstr.) **(Chi)**

ABNORMALITIES

Molecular basis among hereditary dentinal defects: pathobiology of dentinal phosphophoryn. Sauk JJ. **Birth Defects** 1989;25(4):7–13 (27 ref.)

ANALYSIS

Zinc and strontium analyses by energy dispersive X-ray fluorescence in human permanent teeth. Frank RM, et al. **Arch Oral Biol** 1989;34(8):593–7

Phosphoprotein extraction from the dentine/cementum complex of human tooth roots. McCurdy SP, et al. **Arch Oral Biol** 1990;35(5):347–57

Lead and childhood propensity to infectious and allergic disorders: is there an association? Rabinowitz MB, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):657–60

Mineral density and mineral loss after demineralization at various locations in human root dentine. A longitudinal microradiographic study. Zuidgeest TG, et al. **Caries Res** 1990;24(3):159–63

A search for the osteogenic factor in dentin. Rat incisor dentin contains a factor stimulating rat muscle cells in vitro to incorporate sulfate into an altered proteoglycan. Veis A, et al. **Connect Tissue Res** 1989;23(2–3):137–44

Quantitation of growth factors IGF-I, SGF/IGF-II, and TGF-beta in human dentin. Finkelman RD, et al. **J Bone Miner Res** 1990 Jul;5(7):717–23

Wavelength-independent microradiography: a method for non-destructive quantification of enamel and dentin mineral concentrations using polychromatic x-rays. Herkströter FM, et al. **J Dent Res** 1990 Aug;69(8):1522–6

Chemical and crystallographic events in the caries process. LeGeros RZ. **J Dent Res** 1990 Feb;69 Spec No:567–74; discussion 634–6 (100 ref.)

The inorganic components of cementum- and enamel-related dentin in the rat incisor. Steinfort J, et al. **J Dent Res** 1990 Jun;69(6):1287–92

Iron concentration in teeth of Tetra-odontiform fishes and its phylogenetic significance. Suga S, et al. **J Dent Res** 1989 Jun;68(6):1115–23

Visualization of glycosaminoglycans in rat incisor predentin and dentin with cetylpyridinium chloride–glutaraldehyde as fixative. Chardin H, et al. **J Histochem Cytochem** 1990 Jun;38(6):885–94

Immunohistochemical localization of glycosaminoglycans and proteoglycans in predentin and dentin of rat incisors. Takagi M, et al. **J Histochem Cytochem** 1990 Mar; 38(3):319–24

Purification of rabbit bone morphogenetic protein derived from bone, dentin, and wound tissue after tooth extraction. Bessho K, et al. **J Oral Maxillofac Surg** 1990 Feb; 48(2):162–9

Dentin dysplasia type II: absence of type III collagen in dentin. Ranta H, et al. **J Oral Pathol Med** 1990 Apr; 19(4):160–5

The extent of aspartic acid racemization in dentin: a possible method for a more accurate determination of age at death? Ritz S, et al. **Z Rechtsmed** 1990;103(6):457–62

[Gradients of inorganic components in enamel and dentin of deciduous teeth. I. Lead concentration in children with variable environmental conditions] Heilmann HH, et al. **Zahn Mund Kieferheilkd** 1989;77(5):452–8 (Eng. Abstr.) **(Ger)**

[Thermo-analytic study of hard tissues in selenium-consuming experimental animals] Tóth P, et al. **Fogorv Sz** 1988 Mar;81(3):79–84 (Eng. Abstr.) **(Hun)**

[Comparison of organic dentin matrix composition between bovine permanent and deciduous teeth] Nagai H. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):58–69 (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

Effects of a low calcium maternal and weaning diet on the thickness and microhardness of rat incisor enamel and dentine. Lozupone E, et al. **Arch Oral Biol** 1989;34(7):491–8

Determination of ultrasonic velocity in human enamel and dentine. Ng SY, et al. **Arch Oral Biol** 1989;34(5):341–5

Clinical status of dentine bonding agents. Douglas WH. **J Dent** 1989 Oct;17(5):209–15 (27 ref.)

Quantitative radiographic measurement of dentinal lesions. Heaven TJ, et al. **J Dent Res** 1990 Jan;69(1):51–4

Microhardness of enamel and dentine of cat premolar teeth. Hayashi K, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):1033–5

[Crown wall thickness, external dimensions and solid pulp substance relationships of swine teeth] Klinke G, et al. **Anat Anz** 1990;170(2):137–40 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Neovascularization of surface demineralized dentin. Tweden KS, et al. **J Periodontol** 1989 Aug;60(8):460–6

DRUG EFFECTS

Keeping the pulp alive: the pharmacology and toxicology of agents applied to dentine. Hume WR, et al. **Aust Dent J** 1990 Feb;35(1):32–7 (27 ref.)

Pulpal responses to ionomer cements—biological characteristics. Stanley HR. **J Am Dent Assoc** 1990 Jan; 120(1):25–9 (72 ref.)

Action of a bacterial Achromobacter collagenase on the soft carious dentine: an in vitro study with the scanning electron microscope. Goldberg M, et al. **J Biol Buccale** 1989 Dec; 17(4):269–74

The effect of fluoride on the resorption of dentine by osteoclasts in vitro. Taylor ML, et al. **J Bone Miner Res** 1990 Mar;5 Suppl 1:S121–30

Conditioning of root canals prior to dowel cementation with composite luting cement and two dentine adhesive systems. Liberman R, et al. **J Oral Rehabil** 1989 Nov;16(6):597–602

The effect of 25% tannic acid on prepared dentin: a scanning electron microscope–methylene blue dye study. Bitter NC. **J Prosthet Dent** 1990 Jul;64(1):12–6

Bond strengths of luting cements to potassium oxalate-treated dentin. Richardson DW, et al. **J Prosthet Dent** 1990 Apr; 63(4):418–22

Early responses by osteoclasts in vivo and dentinoclasts in vitro to corticosteroids. Pierce AM, et al. **J Submicrosc Cytol Pathol** 1989 Jul;21(3):501–8

Influence of glutardialdehyde on dentin demineralization in vitro and in vivo. Arends J, et al. **Scand J Dent Res** 1989 Aug;97(4):297–300

Effect of intravenous administration of corticosteroids on dentin formation in the adult rat molar. Näsström K, et al. **Scand J Dent Res** 1989 Aug;97(4):301–6

[Glass ionomer cements and dentinal pretreatments: the evaluation of their adhesion to the dentin] Prati C, et al. **Minerva Stomatol** 1990 Feb;39(2):145–8 (Eng. Abstr.) **(Ita)**

[Dentinal adhesives and glass ionomer cements: which are the best?] Prati C, et al. **Minerva Stomatol** 1989 Oct; 38(10):1065–9 (Eng. Abstr.) **(Ita)**

GROWTH & DEVELOPMENT

Morphogenesis of mineralized tissues induced by neonatal mouse molar pulp isografts in the spleen. Ishizeki K, et al. **Arch Oral Biol** 1989;34(6):465–73

Maturation of bone and dentin matrices in rats flown on the Soviet biosatellite Cosmos 1887. Simmons DJ, et al. **FASEB J** 1990 Jan;4(1):29–33

INNERVATION

The neurophysiology of the teeth. Närhi M. **Dent Clin North Am** 1990 Jul;34(3):439–48 (82 ref.)

[The innervation of the dentine] Wang LM. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):138–40, 190 (Eng. Abstr.) **(Chi)**

METABOLISM

In vitro fluoride uptake by enamel and dentin. A comparative study of two varnishes. Acuna V, et al. **Acta Odontol Scand** 1990 Apr;48(2):89–92

In vivo fluoride uptake in enamel and dentin from fluoride-containing materials. Skartveit L, et al. **ASDC J Dent Child** 1990 Mar–Apr;57(2):97–100

Phosphorylation of extracellular bone and dentine matrix proteins. Wu CB, et al. **Biomaterials** 1990 Jul;11:16–8

Immunohistochemical localization of alpha 2HS glycoprotein in dentin. Takagi Y, et al. **Calcif Tissue Int** 1990 Jul; 47(1):40–5

Distribution of fluoride across cementum, dentine and alveolar bone in rats. Kato K, et al. **Caries Res** 1990; 24(2):117–20

Characterization of extracellular and nascent dentin phosphoproteins. MacDougall M, et al. **Connect Tissue Res** 1989;22(1–4):71–7

Binding of calcium and phosphate ions to dentin phosphophoryn. Marsh ME. **Connect Tissue Res** 1989; 21(1–4):205–10; discussion 211

Ultrastructural visualisation of proteoglycans in early unmineralised dentine of rat tooth germs stained with cuprolinic blue. Tenorio D, et al. **J Anat** 1990 Apr; 169:257–64

Protein and mineral release during in vitro demineralization of bovine dentine. Boonstra WD, et al. **J Biol Buccale** 1990 Mar;18(1):43–8

Micro-PIXE (proton-induced X-ray emission) study of the effects of fluoride on mineral distribution patterns in enamel and dentin in the developing hamster tooth germ. Lyaruu DM, et al. **Scanning Microsc** 1990 Jun;4(2):315–22

[The nature and characteristics of valence fluctuations of the functional groups in the organic structure of normal dentin and in pathology] Grechishnikov VI. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):10–3 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Scanning electron microscope study on the action of endodontic irrigants on bacteria invading the dentinal tubules. Gutiérrez JH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):491–501

[The microbial colonization of the carious root dentin] Kneist S, et al. **Zahn Mund Kieferheilkd** 1990;78(2):135–7 **(Ger)**

PATHOLOGY

The use of a caries detector dye in cavity preparation. Kidd EA, et al. **Br Dent J** 1989 Aug 19;167(4):132–4

An electrical method for examining remaining dentine thickness. Yoshida H, et al. **J Dent** 1989 Dec;17(6):284–6

Microscopic and crystallographic examinations of the teeth of the X-linked hypophosphatemic mouse. Abe K, et al. **J Dent Res** 1989 Nov;68(11):1519–24

Root hard-tissue demineralization rate measured by 125I absorptiometry: comparison with lesion-depth measurements. Almqvist H, et al. **J Dent Res** 1990 Aug; 69(8):1519–21

Histopathology of root surface caries. Schüpbach P, et al. **J Dent Res** 1990 May;69(5):1195–204

Scanning electron microscopic characterization of sensitive vs. insensitive human radicular dentin. Yoshiyama M, et al. **J Dent Res** 1989 Nov;68(11):1498–502

Dentin formation in so-called "fibro-osteo-cemental" lesions

of the jaw: histologic, electron microscopic, and immunohistochemical investigations. Burkhardt A. **Oral Surg Oral Med Oral Pathol** 1989 Dec;68(6):729–38; discussion 739

[Cervical wedge-shaped lacunae and dentin hypersensitivity—a histological and SEM study] Zurcher D, et al. **Schweiz Monatsschr Zahnmed** 1990;100(8):937–47 (Eng. Abstr.) (Fre)

[Changes in the microhardness of the enamel and dentin in pulp inflammation] Grechishnikov VI. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):45–7 (Eng. Abstr.) (Rus)

PHYSIOLOGY

The effect of fluoride on the patterns of adherence of osteoclasts cultured on and resorbing dentine: a 3-D assessment of vinculin-labelled cells using confocal optical microscopy. Taylor ML, et al. **Anat Embryol (Berl)** 1989; 180(5):427–35

The rate of incisor dentine calcification and of mandibular growth in the molar region of the ovariectomized rat. Devlin H, et al. **Arch Oral Biol** 1990;35(1):29–32

Piezoelectricity in cementum, dentine and bone. Marino AA, et al. **Arch Oral Biol** 1989;34(7):507–9

Rat incisor dentine contains a factor which alters the phenotypic expression and stimulates chondrogenesis in fibroblast-like cells in vitro. Veis A, et al. **Biomaterials** 1990 Jul;11:35–7

Mineral induction by polyanionic dentin and bone proteins at physiological ionic conditions. Linde A, et al. **Connect Tissue Res** 1989;21(1–4):197–202; discussion 203

Chondrocyte-like colony formation of mesenchymal cells by dentin extracts in agarose gel culture. Harada K, et al. **J Dent Res** 1990 Sep;69(9):1555–9

Inductive influences of demineralized dentin and bone matrix on pulp cells: an approach of secondary dentinogenesis. Tziafas D, et al. **J Dent Res** 1990 Jan;69(1):75–81

[The properties of dentin and resinified dentin in the tensile test] Xu J. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Jul;24(4):197–200, 254 (Eng. Abstr.) (Chi)

RADIATION EFFECTS

An analysis of paramagnetic centers in irradiated dentin using electron spin resonance. Pass B, et al. **Calcif Tissue Int** 1990 Mar;46(3):166–8

Dentinal temperature transients caused by exposure to CO2 laser irradiation and possible pulpal damage. Jeffrey IW, et al. **J Dent** 1990 Feb;18(1):31–6

CO2 laser application to the mineralized dental tissues—the possibility of iatrogenic sequelae. Jeffrey IW, et al. **J Dent** 1990 Feb;18(1):24–30 (39 ref.)

[The effects of the CO2 laser on human dentin and cementum] Piacentini C, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(3):177–83 (Eng. Abstr.) (Fre)

RADIOGRAPHY

Accuracy in radiographic diagnosis: Dutch practitioners and dental caries. Mileman PA, et al. **J Dent** 1990 Jun; 18(3):130–6

TRANSPLANTATION

An ultrastructural study of the differentiation of mesenchymal cells in implants of allogeneic dentine matrix on the amputated dental pulp of the dog. Nakashima M. **Arch Oral Biol** 1990;35(4):277–81

ULTRASTRUCTURE

The fine structure and formation of hypermineralized petrodentine in the tooth plate of extant lungfish (Lepidosiren paradoxa and protopterus sp.). Ishiyama M, et al. **Arch Histol Cytol** 1990 Jul;53(3):307–21

The smear layer in endodontics. Czonstkowsky M, et al. **Dent Clin North Am** 1990 Jan;34(1):13–25 (34 ref.)

Structural events in the caries process in enamel, cementum, and dentin. Frank RM. **J Dent Res** 1990 Feb;69 Spec No:559–66; discussion 634–6 (61 ref.)

A scanning electron microscopic investigation of bonding of methacryloyloxyalkyl hydrogen maleate to etched dentin. Fukushima T, et al. **J Dent Res** 1990 Jan;69(1):46–50

Transmission electron microscopic characterization of hypersensitive human radicular dentin. Yoshiyama M, et al. **J Dent Res** 1990 Jun;69(6):1293–7

Ultrastructure of the predentinal-dentinal border zone of human teeth exposed to basic chromium (III) sulfate. A method for contrasting of collagen fibrils. Koçkapan C. **J Nihon Univ Sch Dent** 1989 Dec;31(4):570–6

Initial attachmeat of principal fibers to the root dentin surface in rat molars. Yamamoto T, et al. **J Periodont Res** 1990 Mar;25(2):113–9

A medicated polycarboxylate cement to prevent complications in composite resin therapy. Okamoto Y, et al. **J Prosthet Dent** 1990 Jan;63(1):37–40

The risk of intentional dissolution of the smear layer after mechanical preparation of root canals. Gutiérrez JH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):96–108

Scanning electron microscope observations on collagen fibers in human dentin and pulp. Sögaard-Pedersen B, et al. **Scand J Dent Res** 1990 Apr;98(2):89–95

[Scanning electron microscopy study of wedge-shaped defects in extracted teeth and in in-vivo conditions] Jaenisch A, et al. **Zahn Mund Kieferheilkd** 1989; 77(6):549–54 (Eng. Abstr.) (Ger)

[Scanning electron microscopic studies of the para-odontoblast region of juvenile permanent teeth] Wegner H, et al. **Zahn Mund Kieferheilkd** 1989;77(5):446–51 (Eng. Abstr.) (Ger)

[The ultrastructure of the circumpulpal dentin of the human tooth] Per'kova NI, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):13–7 (Eng. Abstr.) (Rus)

DENTIN DYSPLASIA

Dentinal dysplasia, type I: report of case. Miers DR, et al. **ASDC J Dent Child** 1990 Jul–Aug;57(4):299–302

METABOLISM

Dentin dysplasia type II: absence of type III collagen in dentin. Ranta H, et al. **J Oral Pathol Med** 1990 Apr; 19(4):160–5

PATHOLOGY

Clinical, radiographic, and histological manifestations of dentin dysplasia, type I: Report of case. Brenneise CV, et al. **J Am Dent Assoc** 1989 Dec;119(6):721–3

DENTIN PERMEABILITY see under **TOOTH PERMEABILITY**

DENTIN, SECONDARY

GROWTH & DEVELOPMENT

Inductive influences of demineralized dentin and bone matrix on pulp cells: an approach of secondary dentinogenesis. Tziafas D, et al. **J Dent Res** 1990 Jan;69(1):75–81

PATHOLOGY

Tooth pulp changes following Le Fort I maxillary osteotomy in a primate model. Browne RM, et al. **Br J Oral Maxillofac Surg** 1990 Feb;28(1):1–7

DENTIN SENSITIVITY

Tooth hypersensitivity. **Dent Clin North Am** 1990 Jul; 34(3):403–581

DIAGNOSIS

Methods of measuring tooth hypersensitivity. Kleinberg I, et al. **Dent Clin North Am** 1990 Jul;34(3):515–29 (46 ref.)

DRUG THERAPY

Designing hypersensitivity clinical studies. Clark GE, et al. **Dent Clin North Am** 1990 Jul;34(3):531–44 (26 ref.)

Hypersensitive teeth. Experimental studies of dentinal desensitizing agents. Markowitz K, et al. **Dent Clin North Am** 1990 Jul;34(3):491–501 (26 ref.)

Dentinal permeability in assessing therapeutic agents. Sena FJ. **Dent Clin North Am** 1990 Jul;34(3):475–90 (46 ref.)

ETIOLOGY

Dental sensitivity and bereavement [letter] [see comments] Edlin I. **Br Dent J** 1989 Dec 9–23;167(11):371 Comment in: Br Dent J 1990 Feb 10;168(3):92–3.

Etiology and clinical implications of dentine hypersensitivity. Addy M. **Dent Clin North Am** 1990 Jul;34(3):503–14 (91 ref.)

Pulpal and root sensitivity rated to periodontal therapy. Wallace JA, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):743–7

[Dentinal hypersensitivity: the etiopathogenetic mechanisms and treatment. The current state of knowledge] Ghezzi L, et al. **Minerva Stomatol** 1990 Mar;39(3):233–9 (25 ref.) (Eng. Abstr.) (Ita)

HISTORY

Historic review of the management of tooth hypersensitivity. Rosenthal MW. **Dent Clin North Am** 1990 Jul;34(3):403–27

PATHOLOGY

Scanning electron microscopic characterization of sensitive vs. insensitive human radicular dentin. Yoshiyama M, et al. **J Dent Res** 1989 Nov;68(11):1498–502

Transmission electron microscopic characterization of hypersensitive human radicular dentin. Yoshiyama M, et al. **J Dent Res** 1990 Jun;69(6):1293–7

[Cervical wedge-shaped lacunae and dentin hypersensitivity—a histological and SEM study] Zurcher D, et al. **Schweiz Monatsschr Zahnmed** 1990;100(8):937–47 (Eng. Abstr.) (Fre)

PHYSIOPATHOLOGY

Tooth hypersensitivity in the spectrum of pain. Curro FA. **Dent Clin North Am** 1990 Jul;34(3):429–37 (19 ref.)

The neurophysiology of the teeth. Närhi M. **Dent Clin North Am** 1990 Jul;34(3):439–48 (82 ref.)

Mechanisms of dentin sensitivity. Pashley DH. **Dent Clin North Am** 1990 Jul;34(3):449–73 (103 ref.)

PREVENTION & CONTROL

Preventing root sensitivity [letter] Bucciarelli A. **J Am Dent Assoc** 1990 Jun;120(6):652

The effectiveness of a patient-applied tooth desensitizing gel. A pilot study. Reinhart TC, et al. **J Clin Periodontol** 1990 Feb;17(2):123–7

Use of mouthguards during tooth preparation for patients with extreme tooth sensitivity [letter; comment] Albert SB. **J Prosthet Dent** 1989 Oct;62(4):493 Comment on: J Prosthet Dent 1989 Mar;61(3):384–5.

THERAPY

Over-the-counter dentifrices in the treatment of tooth hypersensitivity. Review of clinical studies. Kanapka JA. **Dent Clin North Am** 1990 Jul;34(3):545–60 (60 ref.)

A review of current approaches to in-office management of tooth hypersensitivity. Trowbridge HO, et al. **Dent Clin North Am** 1990 Jul;34(3):561–81 (88 ref.)

DENTINOGENESIS

Inductive influences of demineralized dentin and bone matrix on pulp cells: an approach of secondary dentinogenesis. Tziafas D, et al. **J Dent Res** 1990 Jan;69(1):75–81

Effects of magnetic resonance imaging (MRI) on the formation of mouse dentin and bone. Kwong-Hing A, et al. **J Exp Zool** 1989 Oct;252(1):53–9

DRUG EFFECTS

Effect of intravenous administration of corticosteroids on dentin formation in the adult rat molar. Näsström K, et al. **Scand J Dent Res** 1989 Aug;97(4):301–6

PHYSIOLOGY

Preliminary studies on the in vivo morphogenetic properties of dentine matrix proteins. Smith AJ, et al. **Biomaterials** 1990 Jul;11:22–4

Immunohistochemistry of extracellular matrix proteins during various stages of dentinogenesis. Bronckers AL, et al. **Connect Tissue Res** 1989;22(1–4):65–70 (56 ref.)

Visualization of glycosaminoglycans in rat incisor predentin and dentin with cetylpyridinium chloride–glutaraldehyde as fixative. Chardin H, et al. **J Histochem Cytochem** 1990 Jun;38(6):885–94

Relationship of abnormalities in dental and skeletal development in the osteopetrotic (os) rabbit. Popoff SN, et al. **J Oral Pathol Med** 1990 Jan;19(1):5–12

DENTINOGENESIS IMPERFECTA

CLASSIFICATION

Amelogenesis imperfecta with taurodontism and the tricho-dento-osseous syndrome: separate conditions or a spectrum of disease? Crawford PJ, et al. **Clin Genet** 1990 Jul;38(1):44–50

GENETICS

A Polish variant of isolated dentinogenesis imperfecta with a generalised connective tissue defect. Komorowska A, et al. **Br Dent J** 1989 Oct 7;167(7):239–43

DENTIST-PATIENT RELATIONS

Behavioral themes in dentistry for children: 1968–1990. Pinkham JR. **ASDC J Dent Child** 1990 Jan–Feb;57(1):38–45

Interpersonal processes in dentistry. Part II. Dunstone S. **Aust Dent J** 1990 Jun;35(3):282–9 (28 ref.)

Interpersonal processes in dentistry. Part I. Dunstone S. **Aust Dent J** 1990 Apr;35(2):152–8

'Communication with deaf people in the surgery setting' [letter; comment] Crabb JJ. **Br Dent J** 1990 Feb 10; 168(3):93 Comment on: Br Dent J 1989 Nov 25;167(10):350–2.

Alcoholism and the dentist. Robb ND. **Br J Addict** 1990 Apr;85(4):437–9 (27 ref.)

Challenges and dilemmas in behaviour guidance of the pediatric dental patient. Harrison RL, et al. **Can Dent Assoc J** 1989 Oct;55(10):793–5

HIV-testing. More questions than answers. Glick M. **Dent Clin North Am** 1990 Jan;34(1):45–54 (48 ref.)

Some variables affecting dentists' assessment of patients' distress. Baron RS, et al. **Health Psychol** 1990;9(2):143–53

Dental phobia. Conquering fear with trust. **J Am Dent Assoc** 1989 Nov;119(5):593–8

Educating and interacting with your patients. Bender P. **J Am Dent Assoc** 1989 Nov;Suppl:22S–24S

Doctor-patient confidentiality and the potentially HIV-positive patient. Chiodo GT, et al. **J Am Dent Assoc** 1989 Nov;119(5):652–4

How-to-do-it quit-smoking strategies for the dental office team: an eight-step program. Christen AG, et al. **J Am Dent Assoc** 1990 Jan;Suppl:20S–27S (35 ref.)

Establishing smoking cessation programs in dental offices. Cohen SJ, et al. **J Am Dent Assoc** 1990 Jan;Suppl:28S–31S

Patients' attitudes toward dentistry and AIDS. Gerbert B, et al. **J Am Dent Assoc** 1989 Nov;Suppl:16S–21S

False security [letter; comment] Maibaum WW, et al. **J Am Dent Assoc** 1990 Jun;120(6):652 Comment on: J Am Dent Assoc 1990 Apr;120(4):378, 380.

A note on smoke [letter] Mecklenburg R. **J Am Dent Assoc** 1990 Jul;121(1):10
Psychosocial aspects of HIV/AIDS care. Wesch JE, et al. **J Am Dent Assoc** 1989 Nov;Suppl:12S–15S
Determinants of dentists' management of difficult child patients. Wright FA, et al. **J Behav Med** 1990 Apr; 13(2):175–82
The behaviour of the geriatric patient. Vosburg F. **J Can Dent Assoc** 1990 Mar;56(3):211–2
Do dentists have sufficient information about their patients to control infection? Hazelkorn HM. **J Dent Educ** 1990 Feb;54(2):149–52
Training general practice residents in patient behavioral management. Mendola P, et al. **J Dent Educ** 1989 Dec; 53(12):727–30
Comparison of two methods designed to improve pediatric dental case presentations utilizing videotapes. Waggoner WF, et al. **J Dent Educ** 1989 Oct;53(10):573–6
AIDS information. Collected and abstracted by the Committee on Infection Control. **N Y J Dent** 1989 Nov; :9–10
[Severity and vulnerability perceived with respect to bucco-dental diseases] Hubert JM. **Rev Belge Med Dent** 1989;44(1):99–113 (Eng. Abstr.) **(Fre)**
[Psychological aspects of the orthodontic treatment of middle-aged and elderly patients] Kalamkarov KhA, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):60–3 (18 ref.) (Eng. Abstr.) **(Rus)**

DENTISTRY

Occupational noise exposures among dentists during the use of high-speed dental drills. Kam JK. **Am Ind Hyg Assoc J** 1990 Apr;51(4):A255
Press misrepresentation [letter] **Br Dent J** 1989 Nov 11; 167(9):302
An 'unpleasant' aspect of dentistry [letter] [see comments] Barton JJ. **Br Dent J** 1989 Sep 23;167(6):186–7 Comment in: Br Dent J 1989 Nov 11;167(9):302.
Nicaragua—dentistry against the odds. Orellana RM. **Br Dent J** 1989 Dec 9–23;167(11):404–5
The Macintosh in dentistry [letter] Page J. **Br Dent J** 1990 Jan 20;168(2):51
Dentistry and the new genetics [see comments] Sofaer JA. **Br Dent J** 1989 Sep 23;167(6):209–12 (42 ref.) Comment in: Br Dent J 1990 Jan 6;168(1):7.
Some modalities of initiating and sustaining oral health research [letter] Chindia ML. **Community Dent Oral Epidemiol** 1989 Oct;17(5):274
Controversies in dentistry. **Dent Clin North Am** 1990 Jan; 34(1):1–178
Contribution of women dentists to dental research. Reese JA, et al. **Int Dent J** 1990 Jun;40(3):139–41
Information transfer in dentistry: opportunities and concerns. Eighth Annual Dunning Memorial Symposium. April 29, 1988, New York. Proceedings. **J Am Coll Dent** 1989 Fall; 56(3):21–54
Information transfer in dentistry: opportunities and concerns. Trouble right here in River City: can we ignore it? Levy BM. **J Am Coll Dent** 1989 Fall;56(3):28–32
Information transfer in dentistry: opportunities and concerns. Television. Schiller RK. **J Am Coll Dent** 1989 Fall; 56(3):38–40
Information transfer to the profession: opportunities and concerns. Simonsen RJ. **J Am Coll Dent** 1989 Fall; 56(3):25–7
Information transfer in dentistry: opportunities and concerns. The role of the professional journal. Wathen WF. **J Am Coll Dent** 1989 Fall;56(3):23–4
Dentistry in the headlines: the profession and the press. **J Am Dent Assoc** 1990 May;120(5):482–3, 485, 487–8, 490
Split-mouth and cross-over designs in dental research. Antczak-Bouckoms AA, et al. **J Clin Periodontol** 1990 Aug;17(7 Pt 1):446–53 (55 ref.)
Proceedings of the seventh annual conference, The Robert Wood Johnson Dental Services Research Scholars Program. Costa Mesa, California, May 30–June 1, 1989. **J Dent Educ** 1989 Nov;53(11):608–82
Quality assurance: one school's response. Wittemann KJ. **J Dent Educ** 1990 Apr;54(4):228–9
Abstracts of papers. 68th general session, International Association for Dental Research; 19th annual session, American Association for Dental Research. March 7–11, 1990, Cincinnati, OH. **J Dent Res** 1990 Mar;69 Spec No:100–417
Transfer of innovations for advancement in dentistry [editorial] Nakata M. **J Dent Res** 1990 Aug;69(8):1543
Dental research: problems, progress, and prognosis. Newbrun E. **J Dent Res** 1989 Oct;68(10):1377–8
The development of dental research in Taiwan [editorial] Shiau YY. **J Dent Res** 1989 Jul;68(7):1214
Whither peer review? Taubman MA. **J Dent Res** 1989 Oct; 68(10):1379–80
Research, as opposed to dental research—oral health rather than dentistry [editorial] Vig PS. **J Dent Res** 1990 Jul; 69(7):1447–8
The future of dentistry: new challenges, new directions. Sinkford JC. **J Natl Med Assoc** 1990 May;82(5):353–8
Report of the Committee on Scientific Investigation of the American Academy of Restorative Dentistry. Phillips RW, et al. **J Prosthet Dent** 1990 Jul;64(1):74–110 (432 ref.)
Ancestral odontology [editorial] **Lancet** 1990 Sep 15; 336(8716):661–2
Avoiding infective endocarditis [letter; comment] **Lancet** 1990 Mar 3;335(8688):544–5 Comment on: Lancet 1990 Jan 13;335(8681):88–9.
Benzodiazepine sex fantasies: acquittal of dentist [news] Brahams D. **Lancet** 1990 Feb 17;335(8686):403–4
Icondontalgia—I. Drinnan AJ. **N Y State Dent J** 1990 Mar; 56(3):31
Iconodontalgia III. Drinnan AJ. **N Y State Dent J** 1990 May; 56(5):39
Iconodontalgia IV. Drinnan AJ. **N Y State Dent J** 1990 Jun–Jul;56(6):38
Iconodontalgia II. Drinnan AJ. **N Y State Dent J** 1990 Apr; 56(4):40
Organized dentistry's NCDHM spreads the oral health story [editorial] Tillis BP. **N Y State Dent J** 1990 Feb;56(2):5
Urine mercury levels and associated symptoms in dental personnel. Nilsson B, et al. **Sci Total Environ** 1990 May 15;94(3):179–85
[A survey: the forgotten dentist (interview by Johan Boone)] Lissens J. **Rev Belge Med Dent** 1990;45(1):55–62 **(Fre)**
[Drug interactions encountered by the dental practitioner] Sternon J. **Rev Belge Med Dent** 1989;44(4):13–20 (Eng. Abstr.) **(Fre)**
[A study trip to The Netherlands] Gáspár L. **Fogorv Sz** 1990 Apr;83(4):119–20 **(Hun)**
[An increase of glucose in the saliva, determined by the glucose oxidase method, as a sign of psychoemotional stress in dentistry] Dubovaia LI, et al. **Lab Delo** 1990;(4):70–1 **(Rus)**

LEGISLATION & JURISPRUDENCE

Health care professionals indicted on antitrust charges. Berg RN. **J Med Assoc Ga** 1990 May;79(5):323–5
Jury verdict for oral surgeon [letter] Sargeant RW. **J Oral Maxillofac Surg** 1990 Feb;48(2):222–3

MANPOWER

Employment prospects in dentistry. Waldman HB, et al. **Ann Dent** 1989 Winter;48(2):8–11
Dental manpower [letter] Scully C, et al. **Br Dent J** 1990 Jun 9;168(11):430
A modest proposal to help ameliorate a problem in the American dental profession [editorial] Tabak LA. **J Dent Res** 1990 May;69(5):1227

METHODS

[A complex of rapid micromethods for assessing general and local immunity for practical oral medicine] Robustova TG, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):22–5 (Eng. Abstr.) **(Rus)**

ORGANIZATION & ADMINISTRATION

"What do you mean you sympathize with the prime minister!" [editorial] Crawford PR. **J Can Dent Assoc** 1990 May;56(5):359

STANDARDS

American Dental Association principles of ethics and code of professional conduct. With official advisory opinions revised to January 1990. Council on Ethics, Bylaws, and Judicial Affairs. **J Am Dent Assoc** 1990 May;120(5):585–6, 588, 590–2
Trends in quality assurance in the dental profession. Marcus M. **J Dent Educ** 1990 Apr;54(4):224–7
[Ethics in dental practice] Oosterbosch R. **Rev Belge Med Dent** 1990;45(1):21–33 (Eng. Abstr.) **(Fre)**

TRENDS

What's new in dentistry? Kokich V. **Angle Orthod** 1990 Fall; 60(3):165–6
Surveying the 80s and looking ahead into the 90s [editorial] Harcourt JK. **Aust Dent J** 1990 Feb;35(1):77–9
The future of dentistry [letter; comment] Martin AP. **Aust Dent J** 1989 Dec;34(6):575–7 Comment on: Aust Dent J 1989 Aug;34(4):350–8.
Towards 2000: the challenge of quality [editorial] **Br Dent J** 1989 Aug 19;167(4):119
Towards 2000: the challenge of quality [editorial] Duckworth R. **Br Dent J** 1989 Oct 7;167(7):217
Whither the professions? Taylor AC. **Br Dent J** 1990 Jun 9;168(11):452–6
Dentistry in the year 2000: assessments from a Delphi Panel. Kaldenberg DO, et al. **J Am Coll Dent** 1990 Spring; 57(1):20–8
Dentistry changed in the 1980's [letter] Saunders WA. **J Am Coll Dent** 1990 Summer;57(2):5
Dentists and dentistry changed in the 1980s. Waldman HB. **J Am Coll Dent** 1989 Winter;56(4):4–13 (41 ref.)
Changes in dental practice. Waldman HB. **J Am Coll Dent** 1990 Summer;57(2):26–31
Dentistry and health policy. Wotman S. **J Am Coll Dent** 1989 Winter;56(4):50–4
Secretary of health and human services Louis W. Sullivan's remarks at the 67th annual session. Sullivan LW. **J Dent Educ** 1990 Jun;54(6):311–3
Apathy. Bowen WH. **J Dent Res** 1990 Jul;69(7):1350–1
"Storm fear" and "misgiving". Ranney RR. **J Dent Res** 1990 Jul;69(7):1352–4
Issues affecting the future of dentistry. Ginley TJ. **N Y State Dent J** 1989 Oct;55(8):21–2
On dentistry's prospects in the brave new year [editorial] Tillis BP. **N Y State Dent J** 1990 Jan;56(1):5
Organized dentistry's role in the changing practice modalities [editorial] Tillis BP. **N Y State Dent J** 1989 Dec;55(10):5–6
Fewer dentists forecast by revised projections. Waldman HB. **N Y State Dent J** 1989 Nov;55(9):56–7
[Dentistry—not a special field of human medicine but nevertheless an integral part (editorial)] Müller-Boschung P. **Schweiz Monatsschr Zahnmed** 1989;99(8):875, 877 **(Ger, Fre)**
[The effectiveness of studies at the Department of Stomatology of the Pomeranian Medical Academy] Malejewska D, et al. **Ann Acad Med Stetin** 1989;35:89–97 (Eng. Abstr.) **(Pol)**

DENTISTRY FOR HANDICAPPED see **DENTAL CARE FOR HANDICAPPED**

DENTISTRY, OPERATIVE

'Practice visits' [letter; comment] Paul JE. **Br Dent J** 1990 Jan 20;168(2):51 Comment on: Br Dent J 1989 Dec 9–23;167(11):371.
Dentists, infections and clinical waste from the dental surgery. Hawkes AJ. **J R Soc Health** 1989 Oct;109(5):153–5

EDUCATION

A cost-effective method for producing custom dental teaching aids using RTV silicone. Jackson AP. **J Audiov Media Med** 1990 Apr;13(2):53–4
The effectiveness of a leadup activity on performance in an operative preclinic laboratory course. Feil PH, et al. **J Dent Educ** 1989 Oct;53(10):565–8

INSTRUMENTATION

The efficacy of rubber dam isolation in reducing atmospheric bacterial contamination. Samaranayake LP, et al. **ASDC J Dent Child** 1989 Nov–Dec;56(6):442–4
Cotton roll isolation versus Vac-Ejector isolation. Wood AJ, et al. **ASDC J Dent Child** 1989 Nov–Dec;56(6):438–41
Desmond Greer Walker Award. Rubber dam acceptance [see comments] Gergely EJ. **Br Dent J** 1989 Oct 7;167(7):249–52 Comment in: Br Dent J 1989 Nov 11;167(9):304.
'Rubber dam acceptance' [letter; comment] Marshall K, et al. **Br Dent J** 1989 Nov 11;167(9):304 Comment on: Br Dent J 1989 Oct 7;167(7):249–52.
Cross infection control—a challenge for Europe [letter] Temple-Smithson PE. **Br Dent J** 1990 Jan 6;168(1):7
Attitudes of operative dentistry faculty toward rubber dam isolation. Brackett WW, et al. **J Dent Educ** 1989 Dec; 53(12):725–6
Use of a modified rubber dam technique when bonding resin-retained fixed partial dentures. Price RB, et al. **J Prosthet Dent** 1989 Nov;62(5):616
In support of the rubber dam [letter; comment] **N Y State Dent J** 1990 Apr;56(4):12, 14–5 Comment on: N Y State Dent J 1990 Jan;56(1):22–4.
Hazards of the rubber dam [see comments] Neiburger EJ. **N Y State Dent J** 1990 Jan;56(1):22–4 Comment in: N Y State Dent J 1990 Apr;56(4):12, 14–5.
["Aachen 3-D-finger". Development of a 3-D-digitizer for use in dental, oral and maxillary treatment] Schmitt W, et al. **Biomed Tech (Berlin)** 1990 Apr;35(4):69–71 (Eng. Abstr.) **(Ger)**

METHODS

Althesin in outpatient dental anaesthesia. Rollason WN, et al. **Br J Anaesth** 1974 Nov;46(11):881–4

TRENDS

The future of general anaesthesia in dental surgery [letter; comment] Gardiner AS. **J R Soc Med** 1989 Jul;82(7):447 Comment on: J R Soc Med 1989 Jan;82(1):30–2.

DENTISTS

Mercury, selenium, and glutathione peroxidase in dental personnel. Molin M, et al. **Acta Odontol Scand** 1989 Dec; 47(6):383–90
More on legal implications of infectious disease [letter] Michaud EC. **Am J Orthod Dentofacial Orthop** 1989 Nov; 96(5):22A
Attitudes of Victorian dentists to removable partial denture prosthodontics: treatment planning [see comments] Parker DA, et al. **Aust Dent J** 1989 Dec;34(6):536–47 Comment in: Aust Dent J 1990 Apr;35(2):194–5.
Survey of dental practice/dental education in Victoria. Part I. Questionnaire/general aspects. Stewart BL, et al. **Aust Dent J** 1989 Dec;34(6):563–70
The title 'doctor' for the dentist [letter; comment] **Br Dent J** 1989 Oct 21;167(8):264 Comment on: Br Dent J 1989 Sep 9;167(5):157.
From a grateful dentist [letter] **Br Dent J** 1989 Oct 21; 167(8):264–5
The incidence of undiagnosed punctures in non-sterile gloves. Burke FJ, et al. **Br Dent J** 1990 Jan 20;168(2):67–71
The title 'doctor' for the dentist [letter] [see comments] Fortune AT. **Br Dent J** 1989 Sep 9;167(5):157 Comment in: Br Dent J 1989 Oct 21;167(8):264.

'AIDS and dentistry' [letter; comment] Leong ML. **Br Dent J** 1989 Sep 23;167(6):186 Comment on: Br Dent J 1989 Feb 11;166(3):71.
'Rubber dam acceptance' [letter; comment] Marshall K, et al. **Br Dent J** 1989 Nov 11;167(9):304 Comment on: Br Dent J 1989 Oct 7;167(7):249–52.
Teaching resuscitation—can we improve? Middlehurst RJ, et al. **Br Dent J** 1989 Nov 25;167(10):347–8
'Practice visits' [letter; comment] Paul JE. **Br Dent J** 1990 Jan 20;168(2):51 Comment on: Br Dent J 1989 Dec 9–23;167(11):371.
Needlestick injuries to dental staff [letter] [see comments] Porter KM, et al. **Br Dent J** 1989 Oct 21;167(8):265–6 Comment in: Br Dent J 1989 Nov 25;167(10):332–3.
Time for a change [letter] Portner J. **Br Dent J** 1989 Nov 25;167(10):333
Recommendations on HIV and hepatitis viruses [letter] Robinson P. **Br Dent J** 1990 Jun 23;168(12):468
'Cross infection control—a challenge for Europe' [letter] Rothwell PS. **Br Dent J** 1990 Jan 20;168(2):51
'A lay member's perspective' [letter; comment] Sumerling R. **Br Dent J** 1989 Oct 7;167(7):224 Comment on: Br Dent J 1989 Aug 5;167(3):96–7.
Dental practitioner attendances at postgraduate courses in a dental school. Walmsley AD, et al. **Br Dent J** 1990 Jul 21;169(2):61–3
'The title 'Dr' for the dentist' [letter] Waters SJ. **Br Dent J** 1989 Nov 25;167(10):333
Area dentists concerned that military bases will probably be phased out [news] **Can Dent Assoc J** 1989 Oct;55(10):763–4
We should be concerned [letter] Christianson ML. **Can Dent Assoc J** 1989 Nov;55(11):866
"Can you see the difference?" [editorial] Crawford PR. **Can Dent Assoc J** 1989 Sep;55(9):671
Latvian dentists in the 1990s: a born-again profession? Obrazcova K. **Can Dent Assoc J** 1989 Oct;55(10):768
Can a dentist prevent being sued? Potts R. **Can Dent Assoc J** 1990 Jan;56(1):22–3
The thyroid gland and the dental practitioner. Young ER. **Can Dent Assoc J** 1989 Nov;55(11):903–7 (20 ref.)
Roentgenological arthrosis of the hand in dentists with reference to manual function. Lehto TU, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):37–41
Burnout and its causes in Finnish dentists. Murtomaa H, et al. **Community Dent Oral Epidemiol** 1990 Aug;18(4):208–12
Influence of dental school experience on sealant use by British dentists. Cohen L, et al. **Int Dent J** 1990 Aug; 40(4):249–52
The role of biomaterials as occupational hazards in dentistry. Hensten-Pettersen A, et al. **Int Dent J** 1990 Jun; 40(3):159–66 (44 ref.)
Communicating with each other. Silversin J. **Int Dent J** 1989 Dec;39(4):258–62
Practice profile time survey and government policy. Tsui MF. **Int Dent J** 1989 Dec;39(4):269–73
Freedom of movement in the European Community. Whitehouse N. **Int Dent J** 1990 Aug;40(4):237–41
A treasury of dentistry. Dentist-musicians. Foley GP. **J Am Coll Dent** 1989 Winter;56(4):36–7
Chemical dependency. There are 18,000 dentists who need our special attention (Part II). Oberg SW. **J Am Coll Dent** 1989 Fall;56(3):10–3
Dentist participation in health maintenance organizations. A case study. Oliver RC, et al. **J Am Coll Dent** 1990 Summer; 57(2):9–13
Volunteerism. The gift of hope. **J Am Dent Assoc** 1990 Feb; 120(2):128–39
The reaction of dentists to members of groups at risk of AIDS. Hazelkorn HM. **J Am Dent Assoc** 1989 Nov; 119(5):611–9
The National Cancer Institute's invitation to dental professionals in smoking cessation. Mecklenburg RE. **J Am Dent Assoc** 1990 Jan;Suppl:40S–41S
The impact of a quality assessment program on the practice behavior of general practitioners: a follow-up study. Morris AL, et al. **J Am Dent Assoc** 1989 Dec;119(6):705–9
The need for nutritionists: a survey of dental practitioners. Stager SC, et al. **J Am Diet Assoc** 1990 Jan;90(1):100–2
AIDS and CDIP. **J Can Dent Assoc** 1990 Mar;56(3):176
Putting hubby through—the compensatory support conundrum. Colman GC. **J Can Dent Assoc** 1990 Mar; 56(3):201–2
The dentist as a member of the palliative care team. Lapeer GL. **J Can Dent Assoc** 1990 Mar;56(3):205–7
'Basic information' or 'hucksterism'? [letter] MacLeod A. **J Can Dent Assoc** 1990 Mar;56(3):197
Things change. Unger RS. **J Can Dent Assoc** 1990 Apr; 56(4):305–7
Use of non-sterile gloves in clinical practice. Burke FJ. **J Dent** 1990 Apr;18(2):79–89 (124 ref.)
Infection control in dental offices [letter] Cottone JA. **J Dent Educ** 1990 Aug;54(8):498
Examiner agreement between hygienists and dentists for caries prevalence examinations. Mauriello SM, et al. **J Public Health Dent** 1990 Winter;50(1):32–7
Preventive control of AIDS by the dental profession: a survey of practices in a large urban area. Rydman RJ, et al. **J Public Health Dent** 1990 Winter;50(1):7–12
P.L. 99–252—implications for dentists and their clinical practice. Schroeder KL. **J Public Health Dent** 1990 Winter; 50(1):84–9 (57 ref.)
Dentists' and physicians' attitudes on the role of the dental health care team in a cardiovascular risk factor reduction program. Young SL, et al. **J Public Health Dent** 1990 Winter;50(1):38–41
Medical screening of 1500 patients in a dental surgery: a prospective study. Doyle YG, et al. **J R Coll Gen Pract** 1989 Oct;39(327):415–7
Dentists, infections and clinical waste from the dental surgery. Hawkes AJ. **J R Soc Health** 1989 Oct;109(5):153–5
From the Centers for Disease Control. Possible transmission of human immunodeficiency virus to a patient during an invasive dental procedure. **JAMA** 1990 Sep 5;264(9):1092–3
Possible transmission of human immunodeficiency virus to a patient during an invasive dental procedure. **MMWR** 1990 Jul 27;39(29):489–93
The DSSNY young professional. A report. Feinberg E. **N Y State Dent J** 1990 Apr;56(4):20, 22
Workers compensation collection [letter] Lev JJ. **N Y State Dent J** 1990 Jun–Jul;56(6):9
The consultation process [editorial] **N Z Dent J** 1990 Apr; 86(384):33
Eye protection in dental practice. Stokes AN, et al. **N Z Dent J** 1990 Jan;86(383):14–5
Urinary mercury concentrations in Finnish dentists. Lehto T, et al. **Proc Finn Dent Soc** 1989;85(3):177–85
Norwegian dentists' knowledge, attitudes, and behavior concerning the HIV. Wisborg T, et al. **Scand J Dent Res** 1989 Oct;97(5):446–50
Symptoms of the neck and upper extremities in dentists. Milerad E, et al. **Scand J Work Environ Health** 1990 Apr; 16(2):129–34
Mercury accumulation in tissues from dental staff and controls in relation to exposure. Nylander M, et al. **Swed Dent J** 1989;13(6):235–43
Cervical pain and discomfort among dentists. Epidemiological, clinical and therapeutic aspects. Part 1. A survey of pain and discomfort. Rundcrantz BL, et al. **Swed Dent J** 1990;14(2):71–80
[The health status of stomatologists based on the Cornell Medical Index questionnaire] Podstatová H. **Cesk Zdrav** 1989 Aug;37(8–9):349–56 (Eng. Abstr.) **(Cze)**
[Epidemiologic study of hepatitis B virus and human immunodeficiency virus transmission among dental surgeons in the Alpes Maritimes region (letter)] Monteil RA, et al. **Presse Med** 1990 Jun 9;19(23):1104 **(Fre)**
[Survey of the problems of young dentists] Rombaut H, et al. **Rev Belge Med Dent** 1990;45(1):34–42 (Eng. Abstr.) **(Fre)**
[Cooperation between dentist and dental technician. Round-table discussion] **Schweiz Monatsschr Zahnmed** 1989;99(10):1193–8,1203–10 **(Fre, Ger)**
[Cooperation between dentist/dental technician: wishful thinking or reality?] Perret JB. **Schweiz Monatsschr Zahnmed** 1989;99(10):1107, 1109 **(Fre, Ger)**
[The comparative physiological hygiene characteristics of the work of dentists] Kataeva VA, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):80–2 **(Rus)**
[Dentists, be careful—AIDS!] Khazanova VV, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):4–8 **(Rus)**
[The work productivity of the dentist in cleaning the oral cavity with the use of intravenous premedication] Morozova LI, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb; 69(1):86–7 **(Rus)**
[Non-clostridial anaerobes as a cause of post-traumatic keratitis] Volkov VV, et al. **Vestn Oftalmol** 1990 Mar–Apr; 106(2):61–3 (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

North Carolina dentist disciplined [letter] Gustafson BA. **J Am Dent Assoc** 1990 Apr;120(4):380
[The legal responsibility of the dentist] Frey J. **Schweiz Monatsschr Zahnmed** 1990;100(7):886–8, 912–5 **(Ger, Fre)**

PSYCHOLOGY

Interpersonal processes in dentistry. Part I. Dunstone S. **Aust Dent J** 1990 Apr;35(2):152–8
Dental care for elderly people by general dental practitioners. Hamilton FA, et al. **Br Dent J** 1990 Feb 10;168(3):108–12
Alcoholism and the dentist. Robb ND. **Br J Addict** 1990 Apr;85(4):437–9 (27 ref.)
Stress-related problems of dentists. Litchfield NB. **Int J Psychosom** 1989;36(1–4):41–4
Dentists: satisfaction and attitudes on the future. Gunn SM, et al. **J Am Coll Dent** 1990 Spring;57(1):12–5
Dentistry and AIDS: an ethical opinion. Davis M. **J Am Dent Assoc** 1989 Nov;Suppl:9S–11S
Spring: commencement and chaos. Pride J. **J Am Dent Assoc** 1990 May;120(5):513–4
Outlook of British dentists towards their profession. Cohen L, et al. **J Dent** 1989 Oct;17(5):216–8
Externality and burnout among dentists. St-Yves A, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):755–8
[A clinico-statistical study of professional anxiety among dentists] Fogliano F, et al. **Minerva Stomatol** 1990 Feb; 39(2):149–51 **(Ita)**
[Dental aspects of AIDS and the informed knowledge of students and physicians] Tsepov LM. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):82–4 **(Rus)**

STATISTICS & NUMERICAL DATA

Protective measures in dental treatment. Cade JE, et al. **J Am Coll Dent** 1990 Spring;57(1):7–11

SUPPLY & DISTRIBUTION

Dental manpower [letter] Scully C, et al. **Br Dent J** 1990 Jun 9;168(11):430
'Dental manpower' [letter] Watkinson A, et al. **Br Dent J** 1990 Jul 21;169(2):39
Origin, training, and subsequent practice location of Scotland's General and Community dentists [published erratum appears in Community Dent Oral Epidemiol 1990 Jun;18(3):following 264] Fyffe HE, et al. **Community Dent Oral Epidemiol** 1989 Dec;17(6):325–9
A coming shortage of dentists? [editorial] Blair KP. **J Am Coll Dent** 1989 Fall;56(3):3
Errors in Federal report on dental health personnel present problems. Solomon ES. **J Dent Educ** 1990 Aug; 54(8):499–501
Prosthodontists in a period of decreasing number of dentists and changing realities of practice. Waldman HB. **J Prosthet Dent** 1989 Oct;62(4):480–2 (23 ref.)
Dental health personnel planning: a review of the literature. Goodman HS, et al. **J Public Health Dent** 1990 Winter; 50(1):48–63 (140 ref.)
A young dentist's point of view [letter] Gallo SJ. **N Y State Dent J** 1989 Dec;55(10):11
Fewer dentists forecast by revised projections. Waldman HB. **N Y State Dent J** 1989 Nov;55(9):56–7
[Thoughts on the rate of training of dentists as well as the total number of dentists in Hungary] Szabó I. **Fogorv Sz** 1989 Nov;82(11):327–30 (Eng. Abstr.) **(Hun)**
[The effectiveness of studies at the Department of Stomatology of the Pomeranian Medical Academy] Malejewska D, et al. **Ann Acad Med Stetin** 1989;35:89–97 (Eng. Abstr.) **(Pol)**
[Relation of disease patterns and dental care services] Pinto VG. **Rev Saude Publica** 1989 Dec;23(6):509–14 (Eng. Abstr.) **(Por)**

DENTISTS, WOMEN

The careers of women dentists in the university. Ahlberg K. **Int Dent J** 1990 Jun;40(3):135–8
Contribution of women dentists to general practice. Farrell S. **Int Dent J** 1990 Jun;40(3):142–4
A look at the careers of women dentists in developing countries. Mmembe CK. **Int Dent J** 1990 Jun;40(3):145–8
Contribution of women dentists to dental research. Reese JA, et al. **Int Dent J** 1990 Jun;40(3):139–41
Women dentists in national dental organizations and the FDI. Telivuo L. **Int Dent J** 1990 Jun;40(3):131–4
Women in dentistry [letter] Tillman RS. **N Y State Dent J** 1989 Dec;55(10):11

PSYCHOLOGY

Some variables affecting dentists' assessment of patients' distress. Baron RS, et al. **Health Psychol** 1990;9(2):143–53

STATISTICS & NUMERICAL DATA

A profile of women dentists. Price SS. **J Am Dent Assoc** 1990 Apr;120(4):403–8

DENTITION

Development of the dentition in Alligator mississippiensis: upper jaw dental and craniofacial development in embryos, hatchlings, and young juveniles, with a comparison to lower jaw development. Westergaard B, et al. **Am J Anat** 1990 Apr;187(4):393–421
The position of the dentition in the mandible and its possible relation to orthodontic abnormalities. Osborn JW, et al. **Am J Orthod Dentofacial Orthop** 1989 Oct;96(4):327–32
A nonracial craniofacial perspective on human variation: A(ustralia) to Z(uni). Brace CL, et al. **Am J Phys Anthropol** 1990 Jul;82(3):341–60 (142 ref.)
Polynesian face and dentition: functional perspective. Kean MR, et al. **Am J Phys Anthropol** 1990 Jul;82(3):361–9
Major features of Sundadonty and Sinodonty, including suggestions about East Asian microevolution, population history, and late Pleistocene relationships with Australian aboriginals. Turner CG 2d. **Am J Phys Anthropol** 1990 Jul; 82(3):295–317
Dental laminae and teeth of embryonic Ichthyophis glutinosus (L.) (Amphibia: Gymnophiona). Clemen G, et al. **Anat Anz** 1990;170(2):111–7
The biomechanical congruent system of occlusion. Kubein-Meesenburg D, et al. **Anat Anz** 1989; 169(3):193–201
Spacing in the human deciduous dentition in relation to tooth size and dental arch size. el-Nofely A, et al. **Arch Oral Biol** 1989;34(6):437–41
Isolation and partial characterization of a human amelogenin from a single fetal dentition using HPLC techniques. Fincham AG, et al. **Calcif Tissue Int** 1990 Aug;47(2):105–11
Value of the teeth. Schuurs AH, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):22–6
Effects of dentition status and personality on masticatory performance and food acceptability. Garcia RI, et al. **Dysphagia** 1989;4(2):121–6
The developing dentition and tooth structure in hominoids.

Dean MC. **Folia Primatol (Basel)** 1989;53(1–4):160–76
Quantitative approaches to primate morphology. Preuschoft H. **Folia Primatol (Basel)** 1989;53(1–4):82–100 (173 ref.)
Histopathologic study of squamous cell carcinoma of the gingiva in edentulous and dentulous jaws of hamsters treated with N-methylnitrosourea. Kohgo T, et al. **J Oral Pathol Med** 1990 May;19(5):202–7
Comparison of vertical morphologic measurements on dentulous and edentulous patients. Unger JW. **J Prosthet Dent** 1990 Aug;64(2):232–4 (25 ref.)
Reconstruction of the dental arcades of Ramapithecus wickeri. Walker A, et al. **Nature** 1973 Aug 3; 244(5414):313–4
Complex odontoma of the maxillary sinus with a complete dentition. Clayman GL, et al. **Otolaryngol Head Neck Surg** 1989 Nov;101(5):581–3
The earliest fossil evidence for sexual dimorphism in primates. Krishtalka L, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):5223–6
Anaesthetic hazards of the 'passion gap'. A case report. Allen RW, et al. **S Afr Med J** 1990 Sep 15;78(6):335–6
[Study on the anterior point of the occlusal plane in adults with normal dentition] Shi SG. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 May; 24(3):168–70 **(Chi)**
[Survey and analysis of the normal deciduous teeth arch in children 3 and 4 years of age] Shi SZ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Nov; 24(6):359–62, 386 (Eng. Abstr.) **(Chi)**
[Functional morphology of the maxillo–mandibular apparatus in the miniature swine MINI–LEWE. 11. Discussion of the findings of the metric studies and dentition (conclusion)] Koppe T, et al. **Anat Anz** 1989;169(1):35–9 (Eng. Abstr.) **(Ger)**
[The surgical–orthodontic classification of retained and dystopic teeth of the second dentition in dysostosis cleidocranialis] Tränkmann J. **Fortschr Kieferorthop** 1989 Aug;50(4):316–25 (Eng. Abstr.) **(Ger)**
[Comparative studies of the prognosis of supporting areas] Tränkmann J, et al. **Fortschr Kieferorthop** 1990 Jun; 51(3):189–94 (Eng. Abstr.) **(Ger)**
[A study on tooth marks—morphological differences between dentitions and tooth marks thereof and selection of measurement items effective in identification] Aboshi H. **Nippon Hoigaku Zasshi** 1989 Apr;43(2):166–78 (Eng. Abstr.) **(Jpn)**
[Use of cancellous bone and periosteal transplants in primary and secondary cleft palate during a change in dentition] Nadolna–Gawrych E. **Ann Acad Med Stetin** 1989;35:99–113 (Eng. Abstr.) **(Pol)**
[Correlation of the angular and linear parameters of teleroentgenograms of the head in children with a deep prognathic bite at the time of the second dentition] Persin LS, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):67–70 (Eng. Abstr.) **(Rus)**

DENTITION, MIXED

see related
SERIAL EXTRACTION
Occlusion in the primary and early mixed dentitions in a group of Tanzanian and Finnish children. Kerosuo H. **ASDC J Dent Child** 1990 Jul–Aug;57(4):293–8
Longitudinal study on the effect of early interceptive treatment in 4–year–old children with unilateral cross–bite. Lindner A. **Scand J Dent Res** 1989 Oct;97(5):432–8
[Pedodontics (III). The intrabuccal diagnosis of the deciduous and mixed dentition] Maréchaux SC. **Schweiz Monatsschr Zahnmed** 1990;100(1):66–74 **(Fre)**
[The early treatment of progenia in the deciduous dentition compared to treatment in the mixed dentition] Wilhelm–Nold I, et al. **Fortschr Kieferorthop** 1990 Jun; 51(3):165–79 (Eng. Abstr.) **(Ger)**
[Factors that affect alignment of upper permanent lateral incisors in early mixed dentition] Tsai HH. **Kokubyo Gakkai Zasshi** 1989 Jun;56(2):222–43 (Eng. Abstr.) **(Jpn)**

DENTOALVEOLAR ABSCESS, APICAL see **PERIAPICAL ABSCESS**

DENTOALVEOLAR CYST see **PERIODONTAL CYST**

DENTURE BASES

Flange design in removable partial dentures. Chew CL, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):560–3
Adhesive bonding of denture base resins to plastic denture teeth. Suzuki S, et al. **J Biomed Mater Res** 1990 Aug; 24(8):1091–103
Further development and evaluation of high impact strength denture base materials. Rodford RA. **J Dent** 1990 Jun; 18(3):151–7
Evaluation of the properties of a new pour denture base material utilizing a modified technique and initiator system. Frangou M, et al. **J Oral Rehabil** 1990 Jan;17(1):67–77
Comparison of the dimensional stability of two waxes and two acrylic resin processing techniques in the production of complete dentures. Sykora O, et al. **J Oral Rehabil** 1990 May;17(3):219–27
Liquid–supported dentures. Part I: Theoretical and technical considerations. Davidson CL, et al. **J Prosthet Dent** 1990 Mar;63(3):303–6
Visible light–cured denture base resin used in making dentures with conventional teeth. Fellman S. **J Prosthet Dent** 1989 Sep;62(3):356–9
Making a maxillary baseplate retentive. Jordan RD, et al. **J Prosthet Dent** 1989 Sep;62(3):363–4
Role of the surface and volume of palatal relief chambers in retention of maxillary complete dentures. Jozefowicz W, et al. **J Prosthet Dent** 1989 Dec;62(6):651–3
Three–dimensional stability of new denture base resin systems. Latta GH Jr, et al. **J Prosthet Dent** 1990 Jun; 63(6):654–61
Complete denture retention. Part II: Wettability studies on various acrylic resin denture base materials. Monsénégo P, et al. **J Prosthet Dent** 1989 Sep;62(3):308–12
Comparison of changes in vertical dimension between compression and injection molded complete dentures. Strohaver RA. **J Prosthet Dent** 1989 Dec;62(6):716–8
[Porosity, microhardness, roughness and internal stresses of PMMA base materials depending on the isolation method. 2. Roughness and internal stresses] Lockowandt P, et al. **Zahn Mund Kieferheilkd** 1989;77(8):795–800 (Eng. Abstr.) **(Ger)**
[The porosity, microhardness, roughness and internal stresses of PMMA base materials in relation to their isolation. 1. Porosity and microhardness] Lockowandt P, et al. **Zahn Mund Kieferheilkd** 1989;77(7):686–91 (Eng. Abstr.) **(Ger)**
[Mechanical properties of surface hardening polymers polymerizable by visible light] Szabó G, et al. **Fogorv Sz** 1990 Jul;83(7):217–21 (Eng. Abstr.) **(Hun)**
[Application of superplastic titanium alloy for denture base—Part 1. Adaptability of the titanium alloy denture base] Ito M, et al. **Kokubyo Gakkai Zasshi** 1989 Sep; 56(3):429–34 (Eng. Abstr.) **(Jpn)**
[Mechanical studies on casting titanium alloy denture base] Ito M. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):146–64 (Eng. Abstr.) **(Jpn)**
[A method for preparing complete removable dentures with a light–weight base] Bykov VM. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):84 **(Rus)**

ADVERSE EFFECTS
[Oral symptoms of denture wearers and the monomer content of the base plate] Szabó G, et al. **Fogorv Sz** 1990 Jul; 83(7):205–9 (21 ref.) (Eng. Abstr.) **(Hun)**

DENTURE CLEANSERS see under **DENTIFRICES**

DENTURE, COMPLETE

see related
MOUTH, EDENTULOUS
Jaw relationships and complete dentures. Laird WR. **Ann Acad Med Singapore** 1989 Sep;18(5):564–8 (35 ref.)
Prosthetic management of hypohydrotic ectodermal dysplasia with anodontia. Case report. Shaw RM. **Aust Dent J** 1990 Apr;35(2):113–6
The development of criteria for the assessment of complete dentures. Pinsent RH, et al. **Community Dent Health** 1989 Dec;6(4):329–36
Patients' complaints and satisfaction 5 years after complete denture treatment. Kalk W, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):27–31
Myodynamic and conventional construction of complete dentures: a comparative study of comfort and function. Barreniis L, et al. **J Oral Rehabil** 1989 Sep;16(5):457–65
The gothic arch tracing and the upper canine teeth as guides in the positioning of upper posterior teeth. el–Gheriani AS, et al. **J Oral Rehabil** 1989 Sep;16(5):481–90
Determination of occlusal vertical dimension by means of controlled pressure against tissues supporting a complete denture. Munakata Y, et al. **J Oral Rehabil** 1990 Mar; 17(2):145–50
The use of denture adhesives as an aid to denture treatment. Adisman IK. **J Prosthet Dent** 1989 Dec;62(6):711–5
Cyanoacrylate home denture repair: the problem and a solution. Clancy JM, et al. **J Prosthet Dent** 1989 Oct; 62(4):487–9
Visible light–cured denture base resin used in making dentures with conventional teeth. Fellman S. **J Prosthet Dent** 1989 Sep;62(3):356–9
Investigation into the cleanliness of dentures in an elderly population. Hoad–Reddick G, et al. **J Prosthet Dent** 1990 Jul;64(1):48–52
Radiographic examination of edentulous mouths. Lyman S, et al. **J Prosthet Dent** 1990 Aug;64(2):180–2
Biting strength and chewing forces in complete denture wearers. Michael CG, et al. **J Prosthet Dent** 1990 May; 63(5):549–53
Complete denture retention. Part II: Wettability studies on various acrylic resin denture base materials. Monsénégo P, et al. **J Prosthet Dent** 1989 Sep;62(3):308–12
Treatment for acute craniomandibular dysfunction symptoms in edentulous patients with unserviceable or no existing complete dentures. Runyan DA, et al. **J Prosthet Dent** 1989 Nov;62(5):542–5
The influence of psychologic factors on patient satisfaction with complete dentures. van Waas MA. **J Prosthet Dent** 1990 May;63(5):545–8
On occlusal forces in dentitions with implant–supported fixed cantilever prostheses. Falk H. **Swed Dent J Suppl** 1990; 69:1–40
[Study of three–dimensional changes in the permanent bases of complete dentures after secondary heat treatment] Wang SY. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan; 25(1):8–11, 60 (Eng. Abstr.) **(Chi)**
[Implantology. Fixed extension bridges on implants in the edentulous jaw—a treatment concept] Grunder U. **Schweiz Monatsschr Zahnmed** 1989;99(8):920–7 **(Ger, Fre)**
[The replica prosthesis. A simple method for prosthesis duplication] Mericske–Stern R, et al. **Schweiz Monatsschr Zahnmed** 1990;100(5):586–95 **(Ger, Fre)**
[Six channels telemetry system for recording masticatory forces of complete denture wearers] Watanabe T, et al. **Iyodenshi To Seitai Kogaku** 1989 Jun;27(2):101–6 (Eng. Abstr.) **(Jpn)**
[Study of masticatory forces of complete denture wearers] Watanabe T. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):16–31 (Eng. Abstr.) **(Jpn)**
[A method for repeat prosthesis in elderly patients with complete loss of the teeth] Savvidi GL. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):57–9 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS
Clinical presentation of denture hyperplasia of oral tissues. Keng SB, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):537–40
Contact stomatitis due to N,N–dimethyl–para–toluidine. Tosti A, et al. **Contact Dermatitis** 1990 Feb;22(2):113
[Candidiasis and leukoplakia of the oral cavity in the patient wearing complete dentures] Stancari F, et al. **Minerva Stomatol** 1989 Oct;38(10):1137–42 (34 ref.) (Eng. Abstr.) **(Ita)**

STANDARDS
[The flexible gingival epithesis. The practical procedure, laboratory technics and clinical experience] Iselin W, et al. **Schweiz Monatsschr Zahnmed** 1990;100(8):966–79 **(Ger, Fre)**

STATISTICS & NUMERICAL DATA
Variability in complete denture assessment. Cabot LB. **J Dent** 1990 Apr;18(2):98–101
A comparison of self–assessed satisfaction among wearers of dentures, hearing aids, and eyeglasses. Smedley TC, et al. **J Prosthet Dent** 1989 Dec;62(6):654–61
The influence of clinical variables on patients' satisfaction with complete dentures. van Waas MA. **J Prosthet Dent** 1990 Mar;63(3):307–10

DENTURE, COMPLETE, IMMEDIATE

Vital root retention: a clinical procedure. Fareed K, et al. **J Prosthet Dent** 1989 Oct;62(4):430–4
Modification of immediate denture sectional impression technique using vinyl polysiloxane. Gardner LK, et al. **J Prosthet Dent** 1990 Aug;64(2):182–4

DENTURE, COMPLETE, LOWER

The edentulous mandible opposing maxillary natural teeth. Treatment considerations [published erratum appears in Dent Clin North Am 1990 Apr;34(2):IX] Winkler S, et al. **Dent Clin North Am** 1990 Jan;34(1):143–8
The influence of spacers on forces exerted on the abutment teeth of complete mandibular overdentures. Ogata K, et al. **J Oral Rehabil** 1990 May;17(3):269–78
Fixed mandibular complete denture prostheses supported by mandibular staple bone plate implant. Knapp JG, et al. **J Prosthet Dent** 1990 Jan;63(1):73–6

DENTURE, COMPLETE, UPPER

Resolving esthetic and phonetic problems associated with maxillary implant–supported prostheses. A clinical report. Graser GN, et al. **J Prosthet Dent** 1989 Oct;62(4):376–8
Role of the surface and volume of palatal relief chambers in retention of maxillary complete dentures. Jozefowicz W, et al. **J Prosthet Dent** 1989 Dec;62(6):651–3
Three–dimensional stability of new denture base resin systems. Latta GH Jr, et al. **J Prosthet Dent** 1990 Jun; 63(6):654–61
Rehabilitation of a patient with a bilateral partial maxillary resection. A clinical report. Mitchell DL, et al. **J Prosthet Dent** 1989 Nov;62(5):497–9
A two–year kinesiographic study of mandibular movement patterns in denture wearers. Tallgren A, et al. **J Prosthet Dent** 1989 Nov;62(5):594–600
Fixed partial dentures opposing complete dentures. White KC, et al. **J Prosthet Dent** 1989 Oct;62(4):483–7
Modification of procedures to provide for prosthetic rehabilitation in a hospital inpatient. Waldron JM, et al. **N Y State Dent J** 1990 Mar;56(3):24–6 (11 ref.)
[Negative pressure under upper complete dentures during the first half year of their fitting] Krysiński Z, et al. **Zahn Mund Kieferheilkd** 1990;78(2):141–3 **(Ger)**
[A method for preparing complete removable dentures with a light–weight base] Bykov VM. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):84 **(Rus)**

ADVERSE EFFECTS

Traumatic pharyngeal displacement of a full maxillary denture: case report. Heggie AA, et al. **J Oral Maxillofac Surg** 1989 Nov;47(11):1208-10

DENTURE LINERS

see related

SILICONE ELASTOMERS

Denture soft linings: materials available. Mack PJ. **Aust Dent J** 1989 Dec;34(6):517-21

Denture soft lining materials: clinical indications. Mack PJ. **Aust Dent J** 1989 Oct;34(5):454-8 (62 ref.)

Clinical compliance of two resilient denture liners. Graham BS, et al. **J Oral Rehabil** 1990 Mar;17(2):157-63

Liquid-supported dentures. Part II: Clinical study, a preliminary report. Boere G, et al. **J Prosthet Dent** 1990 Apr;63(4):434-6

Liquid-supported dentures. Part I: Theoretical and technical considerations. Davidson CL, et al. **J Prosthet Dent** 1990 Mar;63(3):303-6

Clinical implications of resilient denture lining material research. Part I: Flexibility and elasticity. Graham BS, et al. **J Prosthet Dent** 1989 Oct;62(4):421-8

The bond strength of a visible light-cured reline resin to acrylic resin denture base material. Razavi R, et al. **J Prosthet Dent** 1990 Apr;63(4):485-7

An evaluation of the surface characteristics of a facial prosthetic elastomer. Part I: Review of the literature on the surface characteristics of dental materials with maxillofacial prosthetic application. Veres EM, et al. **J Prosthet Dent** 1990 Feb;63(2):193-7 (40 ref.)

[The use of elastic plastic liners in orthodontics] Anosova AI, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):56-7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Upper airway obstruction caused by a do-it-yourself denture reliner. Granström G. **J Prosthet Dent** 1990 May; 63(5):495-6

DENTURE, OVERLAY

Mandibular overdenture treatment. Case report. Best HA. **Aust Dent J** 1990 Apr;35(2):125-7

A treatment for stained teeth [letter] Tian SH. **Br Dent J** 1990 May 19;168(10):387

Caries: a problem in an overdenture population. Ettinger RL, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):42-5

Dentistry and the graying of America [letter] Gilberg E. **J Am Dent Assoc** 1990 Apr;120(4):380

The influence of spacers on forces exerted on the abutment teeth of complete mandibular overdentures. Ogata K, et al. **J Oral Rehabil** 1990 May;17(3):269-78

Prosthodontic considerations for the transmandibular implant. Maxson BB, et al. **J Prosthet Dent** 1990 May; 63(5):554-8

Changes in retention of various telescope crown assemblies over long-term use. Ohkawa S, et al. **J Prosthet Dent** 1990 Aug;64(2):153-8

DENTURE, PARTIAL

Long-term results of prosthetic therapy in adult cleft lip alveolus and palate patients. von Schwanewede H, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:52-4

Clinical performance of resin-bonded bridges: a 5-year prospective study. I. Design of the study and influence of experimental variables. Creugers NH, et al. **J Oral Rehabil** 1989 Sep;16(5):427-36

Finite element analysis of three- and four-unit bridges. Farah JW, et al. **J Oral Rehabil** 1989 Nov;16(6):603-11

A simplified technique for fabricating esthetic cast metal occlusal surfaces for dentures. Krantz WA, et al. **J Prosthet Dent** 1990 Jun;63(6):713-5

A method for bonding extracted teeth to a cobalt-chrome prosthesis. Lim KC. **J Prosthet Dent** 1990 Jul;64(1):116

[The treatment of adults with removable appliances? A contribution to orthodontic-prosthetic collaboration] Bernau R, et al. **Fortschr Kieferorthop** 1990 Feb;51(1):23-8 (Eng. Abstr.) **(Ger)**

[The resin-bonded bridge technic. Indications and contraindications in the resin-bonded bridge technic--a position paper] Besimo C. **Schweiz Monatsschr Zahnmed** 1990;100(3):324-33 **(Ger, Fre)**

[Implant-bearing crowns and bridges. The indications, therapeutic planning and crown-bridge prosthetic aspects] Brägger U, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(6):730-40 **(Ger, Fre)**

[Surface and circumference determination in resin-bonded retainer elements: a possibility for long-term prognosis?] Marinello CP, et al. **Schweiz Monatsschr Zahnmed** 1990; 100(3):291-9 (Eng. Abstr.) **(Ger)**

[Temperature loading of resin-bonded bridges and its effect on the composite strength of the adhesive bond] Pfeiffer P, et al. **Schweiz Monatsschr Zahnmed** 1989;99(7):782-6 (Eng. Abstr.) **(Ger)**

[In vitro research on the attachment of bonded bridges] Haberland E, et al. **Zahn Mund Kieferheilkd** 1990;78(3):263 **(Ger)**

[Characteristics of the fixation of resin-bonded bridge dentures. Possible errors and measures for their elimination] Gumetskiĭ RA, et al. **Stomatologiia (Mosk)** 1990 May-Jun; 69(3):64-5 (Eng. Abstr.) **(Rus)**

[Aspects under discussion in the design and use of metal-ceramic dentures] Kalamkarov KhA, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):44-8 (Eng. Abstr.) **(Rus)**

[Metal dentures with mulilayer protective coatings] Napadov MA, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):58-60 (Eng. Abstr.) **(Rus)**

[Indices of free-radical oxidation of the saliva in subjects wearing dentures made of various materials under ordinary conditions and in the presence of industrial hazards] Sedunov AA, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb; 69(1):52-4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Clinical presentation of denture hyperplasia of oral tissues. Keng SB, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):537-40

[The prevention of complications from the use of cast stump pin inserts for the fixation of metal-ceramic dentures] Arutiunov SD. **Stomatologiia (Mosk)** 1989 Jul-Aug; 68(4):48-50 (Eng. Abstr.) **(Rus)**

[Clinico-immunological parallels in intolerance of dentures of dissimilar metal alloys] Doĭnikov AI, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):55-7 (Eng. Abstr.) **(Rus)**

[Allergy to gold--a cause of denture intolerance] Kalamkarov KhA, et al. **Stomatologiia (Mosk)** 1989 Sep-Oct;68(5):70-2 (Eng. Abstr.) **(Rus)**

STATISTICS & NUMERICAL DATA

Bridges in general dental practices: a descriptive study of the types of bridges and patients. Leempoel PJ, et al. **J Oral Rehabil** 1989 Jul;16(4):381-6

A comparison of self-assessed satisfaction among wearers of dentures, hearing aids, and eyeglasses. Smedley TC, et al. **J Prosthet Dent** 1989 Dec;62(6):654-61

DENTURE, PARTIAL, FIXED

The bond strengths of various adhesives used for Maryland Bridges. Flood AM, et al. **Aust Dent J** 1989 Oct; 34(5):449-53

Failed conventional bridge work from general dental practice: clinical aspects and treatment needs of 142 cases. Foster LV. **Br Dent J** 1990 Mar 10;168(5):199-201 (16 ref.)

Resin-bonded bridges: a note of caution [see comments] Gilmour AS. **Br Dent J** 1989 Aug 19;167(4):140-1 Comment in: Br Dent J 1989 Oct 7;167(7):224.

'Resin-bonded bridges: a note of caution' [letter; comment] Tay WM. **Br Dent J** 1989 Oct 7;167(7):224 Comment on: Br Dent J 1989 Aug 19;167(4):140-1.

A review of clinical fixed prosthodontics from diagnosis to crown cementation (Part I--Diagnosis treatment planning). Lipkin JN, et al. **Can Dent Assoc J** 1989 Nov;55(11):893-5

Alternative casting alloys for fixed prosthodontics. Fédération Dentaire Internationale. Technical Report No. 34. **Int Dent J** 1990 Feb;40(1):54-5

The California Bridge--truly conservative fixed bridgework. Maier HJ. **J Can Dent Assoc** 1990 May;56(5):405

Clinical and microscopic findings in edentulous patients 3 years after incorporation of osseointegrated implant-supported bridgework. Bower RC, et al. **J Clin Periodontol** 1989 Oct;16(9):580-7

Stabilization of maxillary segments and dental arch after puberty, in cleft lip and palate cases. Holtgrave EA, et al. **J Craniomaxillofac Surg** 1989 Dec;17 Suppl 1:45-8

Resin bonded bridgework: a review. Saunders WP. **J Dent** 1989 Dec;17(6):255-65 (170 ref.)

A clinical evaluation of conventional bridgework. Cheung GS, et al. **J Oral Rehabil** 1990 Mar;17(2):131-6

Clinical performance of resin-bonded bridges: a 5-year prospective study. II. The influence of patient-dependent variables. Creugers NH, et al. **J Oral Rehabil** 1989 Nov; 16(6):521-7

Resin-bonded fixed partial dentures for abutment teeth with existing occlusal restorations. Bloxham GP. **J Prosthet Dent** 1990 Aug;64(2):241

A 5-year longitudinal study of cantilevered fixed partial dentures compared with removable partial dentures in a geriatric population. Budtz-Jørgensen E, et al. **J Prosthet Dent** 1990 Jul;64(1):42-7

Restoration of fixed partial dentures with fractured porcelain veneers using an overcasting. Cohen B, et al. **J Prosthet Dent** 1989 Oct;62(4):390-2

Success of etched-metal bonded retainers with nonrigid connections: a clinical study. Crispin BJ. **J Prosthet Dent** 1989 Sep;62(3):269-72

Using a tooth-reduction guide for modifying natural teeth. Gardner LK, et al. **J Prosthet Dent** 1990 Jun;63(6):637-9

The seating of one-piece and soldered fixed partial dentures. Gegauff AG, et al. **J Prosthet Dent** 1989 Sep;62(3):292-7 (15 ref.)

Gingival esthetics. Goodacre CJ. **J Prosthet Dent** 1990 Jul; 64(1):1-12 (76 ref.)

Interocclusal wax impressions for use in provisional and associated fixed prosthodontic procedures. Hoffman JM, et al. **J Prosthet Dent** 1989 Oct;62(4):395-400

Veterans Administration Cooperative Dental Implant Study--comparisons between fixed partial dentures supported by blade-vent implants and removable partial dentures. Part II: Comparisons of success rates and periodontal health between two treatment modalities. Kapur KK. **J Prosthet Dent** 1989 Dec;62(6):685-703

Interfacial strengths of various alloy surface treatments for resin-bonded fixed partial dentures. Lin TH, et al. **J Prosthet Dent** 1990 Aug;64(2):158-62

Prosthetic use of carbon fiber-reinforced epoxy resin for esthetic crowns and fixed partial dentures. Malquarti G, et al. **J Prosthet Dent** 1990 Mar;63(3):251-7

Use of a modified rubber dam technique when bonding resin-retained fixed partial dentures. Price RB, et al. **J Prosthet Dent** 1989 Nov;62(5):616

The laminar impression technique. Schoenrock GA. **J Prosthet Dent** 1989 Oct;62(4):392-5

Cross-pin fixation for fixed partial dentures. Stumpel LJ. **J Prosthet Dent** 1989 Nov;62(5):503-5

Fixed partial dentures opposing complete dentures. White KC, et al. **J Prosthet Dent** 1989 Oct;62(4):483-7

Cross-sectional study of patients fitted with fixed partial dentures with special reference to the caries situation. Ericson G, et al. **Scand J Dent Res** 1990 Feb;98(1):8-16

Cinefluoroscopic study of long-term changes of bolus position and chewing cycle duration after fixed prosthetic treatment. Karlsson S, et al. **Scand J Dent Res** 1989 Dec; 97(6):565-72

Periodontal and pulpal conditions of abutment teeth. Status after four to eight years following the incorporation of fixed reconstructions. Reichen-Graden S, et al. **Schweiz Monatsschr Zahnmed** 1989;99(12):1381-5

On occlusal forces in dentitions with implant-supported fixed cantilever prostheses. Falk H. **Swed Dent J Suppl** 1990; 69:1-40

[Stress distribution analysis of a loaded fixed bridge by finite element method] Zhao YF, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):392-5 (Eng. Abstr.) **(Chi)**

[Agenesis] Samama Y. **Orthod Fr** 1986;57 Pt 2:559-77 (Eng. Abstr.) **(Fre)**

[Systematic planning in the bonded denture] Hess D, et al. **Schweiz Monatsschr Zahnmed** 1989;99(12):1418-23 **(Fre)**

[Case report: bonded prosthesis restoration] Hess D. **Schweiz Monatsschr Zahnmed** 1990;100(5):612-6 **(Fre, Ger)**

[Implantology. Fixed extension bridges on implants in the edentulous jaw--a treatment concept] Grunder U. **Schweiz Monatsschr Zahnmed** 1989;99(8):920-7 **(Ger, Fre)**

[Root caps in hybrid prosthesis. Suggestions for the design and construction of root caps for hybrid prostheses] Kundert M, et al. **Schweiz Monatsschr Zahnmed** 1989; 99(11):1284-91 **(Ger, Fre)**

[Simultaneous orthodontic and prosthodontic treatment of adults] Beitlich E, et al. **Fogorv Sz** 1988 Jun;81(6):187-91 (Eng. Abstr.) **(Hun)**

[Electrochemical or mechanical preparation of metal surfaces of fixed dentures or splints] Tóth P Jr, et al. **Fogorv Sz** 1990 Mar;83(3):90-3 (Eng. Abstr.) **(Hun)**

[Instruments and technics for removing the restorations in fixed prostheses. a bibliographic analysis] Corrias M, et al. **Minerva Stomatol** 1990 Feb;39(2):139-43 (18 ref.) **(Ita)**

[Recommendations for the soldering of dentures made from stainless steel] Bogattskiĭ VA, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):63-4 (Eng. Abstr.) **(Rus)**

[Experience in preparing metal-ceramic and unit-cast fixed dentures using a new nickel-chromium alloy] Khokhlov AA, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):50-1 (Eng. Abstr.) **(Rus)**

[The use of mathematical modelling in improving the orthodontic treatment of end defects of the dental arches] Matveeva AI, et al. **Stomatologiia (Mosk)** 1990 Jan-Feb; 69(1):48-52 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Periodontal conditions following treatment with distally extending cantilever bridges or removable partial dentures in elderly patients. A 5-year study. Isidor F, et al. **J Periodontol** 1990 Jan;61(1):21-6

[Evaluation of distal free-end dentures and partial plate dentures based on their effect on the remaining dentition] Somogyi E, et al. **Fogorv Sz** 1989 Oct;82(10):289-93 (Eng. Abstr.) **(Hun)**

[Periodontal effects of the bridge and neighboring anchors, based on follow up studies] Szabó G, et al. **Fogorv Sz** 1989 Apr;82(4):97-102 (Eng. Abstr.) **(Hun)**

[Changes in dental enamel solubility during orthodontic treatment and after prosthesis with fixed dentures made of steel] Ben'kovskaia SG, et al. **Stomatologiia (Mosk)** 1989 Nov-Dec;68(6):73-4 **(Rus)**

STANDARDS

Failures and length of service in fixed prosthodontics after long-term function. A longitudinal clinical study. Karlsson S. **Swed Dent J** 1989;13(5):185-92

STATISTICS & NUMERICAL DATA

Clinical performance of resin-bonded bridges: a 5-year prospective study. Part III: Failure characteristics and survival after rebonding. Creugers NH, et al. **J Oral Rehabil** 1990 Mar;17(2):179-86

Success rate experience after rebonding and renewal of resin-bonded fixed partial dentures. Marinello CP, et al. **J Prosthet Dent** 1990 Jan;63(1):8–11

TRENDS

Changes over time in the clientele and restoration pattern in a dental school prosthodontic department. Silness J, et al. **Int Dent J** 1990 Apr;40(2):109–16

[The importance and value of bonded prostheses (interview)] Marinello CP. **Schweiz Monatsschr Zahnmed** 1990; 100(5):651–3, 673–5 **(Ger, Fre)**

[Resin-bonded bridges—current trends (editorial)] Venner K. **Schweiz Monatsschr Zahnmed** 1990;100(5):527, 529 **(Ger, Fre)**

DENTURE, PARTIAL, IMMEDIATE

Immediate temporary fixed partial dentures. Samant A. **J Prosthet Dent** 1990 Mar;63(3):362–3

DENTURE, PARTIAL, REMOVABLE

Flange design in removable partial dentures. Chew CL, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):560–3

Attitudes of Victorian dentists to removable partial denture prosthodontics: treatment planning [see comments] Parker DA, et al. **Aust Dent J** 1989 Dec;34(6):536–47 Comment in: Aust Dent J 1990 Apr;35(2):194–5.

DIY dentures [letter] Grant R. **Br Dent J** 1990 Mar 10; 168(5):184

Handling partial dentures with arthritic fingers [letter] Sager H. **Br Dent J** 1989 Sep 9;167(5):157

Principles governing the prosthodontic treatment of patients with cardiac transplants. Carpendale JJ, et al. **J Am Dent Assoc** 1989 Oct;119(4):517–21

A laboratory examination of the behaviour of cast cobalt-chromium clasps. Ghani F, et al. **J Oral Rehabil** 1990 May;17(3):229–37

Oral comfort in shortened dental arches. Witter DJ, et al. **J Oral Rehabil** 1990 Mar;17(2):137–43 (23 ref.)

The effect of sustained release application of chlorhexidine on salivary levels of Streptococcus mutans in partial denture wearers. Zyskind D, et al. **J Oral Rehabil** 1990 Jan;17(1):61–6

An analysis of rotational movement of asymmetrical distal-extension removable partial dentures [letter] **J Prosthet Dent** 1990 Mar;63(3):366–7

Microcomputer-aided removable partial denture design: the next evolution. Beaumont AJ Jr. **J Prosthet Dent** 1989 Nov; 62(5):551–6

Microcomputer-aided removable partial denture design. Beaumont AJ Jr, et al. **J Prosthet Dent** 1989 Oct; 62(4):417–21

Rigidity of major connectors when subjected to bending and torsion forces. Ben-Ur Z, et al. **J Prosthet Dent** 1989 Nov; 62(5):557–62

Laboratory procedures for the one-clasp removable partial denture [letter] Bissasu MA. **J Prosthet Dent** 1990 Jul; 64(1):119

A 5-year longitudinal study of cantilevered fixed partial dentures compared with removable partial dentures in a geriatric population. Budtz-Jørgensen E, et al. **J Prosthet Dent** 1990 Jul;64(1):42–7

Removable partial denture design and fabrication survey of the prosthodontic specialist. Burns DR, et al. **J Prosthet Dent** 1989 Sep;62(3):303–7

The hinged-clasp assembly removable partial denture. Campbell SD, et al. **J Prosthet Dent** 1990 Jan;63(1):59–61

Photoelastic analysis and comparison of force-transmission characteristics of intracoronal attachments with clasp distal-extension removable partial dentures. Chou TM, et al. **J Prosthet Dent** 1989 Sep;62(3):313–9

Use of a partial-coverage porcelain laminate to enhance clasp retention. Dixon DL, et al. **J Prosthet Dent** 1990 Jan; 63(1):55–8

A provisional and new crown to fit into a clasp of an existing removable partial denture. Elledge DA, et al. **J Prosthet Dent** 1990 May;63(5):541–4

Cast connectors as cores for ceramometal pontics on removable partial dentures and for splinting anterior crowns. Fehling AW. **J Prosthet Dent** 1990 Feb; 63(2):167–71

Using vinyl polysiloxane in the altered cast procedure for speech-aid prostheses. Gardner LK, et al. **J Prosthet Dent** 1990 Jan;63(1):62–4

Remount casts for removable partial dentures made in a laboratory. Jordan RD, et al. **J Prosthet Dent** 1989 Sep; 62(3):360–2

Veterans Administration Cooperative Dental Implant Study—comparisons between fixed partial dentures supported by blade-vent implants and removable partial dentures. Part II: Comparisons of success rates and periodontal health between two treatment modalities. Kapur KK. **J Prosthet Dent** 1989 Dec;62(6):685–703

Composite resin contouring of abutment teeth for rotational path removable partial dentures. Latta GH Jr. **J Prosthet Dent** 1990 Jun;63(6):716–7

The effect of clinical experience on dental students' ability to design removable partial denture frameworks. McKinstry RE, et al. **J Prosthet Dent** 1989 Nov;62(5):563–6

Interim acrylic resin duplicate removable partial dentures. McKitrick WL, et al. **J Prosthet Dent** 1990 Aug; 64(2):237–40

Modification of an existing removable partial denture for use as an interim prosthesis. Markus SJ. **J Prosthet Dent** 1989 Nov;62(5):500–2

The labial plate major connector in the partial mandibulectomy patient. Nakamura SH, et al. **J Prosthet Dent** 1989 Dec;62(6):673–5

Temporization of abutment teeth preparations for existing removable partial dentures. Netti CA, et al. **J Prosthet Dent** 1989 Oct;62(4):428–30

Removable prosthodontics research—quo vadis? Smith DE. **J Prosthet Dent** 1989 Dec;62(6):707–11

A two-year kinesiographic study of mandibular movement patterns in denture wearers. Tallgren A, et al. **J Prosthet Dent** 1989 Nov;62(5):594–600

Correctly positioned and soldered wrought wire clasps for removable partial dentures. Young L Jr, et al. **J Prosthet Dent** 1990 Aug;64(2):242–3

Retention magnets in guiding plates of distal-extension removable partial dentures [letter; comment] Zuest P. **J Prosthet Dent** 1989 Sep;62(3):365 Comment on: J Prosthet Dent 1988 Nov;60(5):577–82.

ADVERSE EFFECTS

Periodontal conditions following treatment with distally extending cantilever bridges or removable partial dentures in elderly patients. A 5-year study. Isidor F, et al. **J Periodontol** 1990 Jan;61(1):21–6

[Evaluation of distal free-end dentures and partial plate dentures based on their effect on the remaining dentition] Somogyi E, et al. **Fogorv Sz** 1989 Oct;82(10):289–93 (Eng. Abstr.) **(Hun)**

[Characteristics of the electrical values of metal denture parts in patients wearing plate dentures] Pavlenko VM, et al. **Stomatologiia (Mosk)** 1990 May-Jun;69(3):61–3 (Eng. Abstr.) **(Rus)**

STANDARDS

[The flexible gingival epithesis. The practical procedure, laboratory technics and clinical experience] Iselin W, et al. **Schweiz Monatsschr Zahnmed** 1990;100(8):966–79 **(Ger, Fre)**

STATISTICS & NUMERICAL DATA

Ten-year study of trends in removable prosthodontic service. Harvey WL, et al. **J Prosthet Dent** 1989 Dec;62(6):644–6

DENTURE, PARTIAL, TEMPORARY

Provisional restoration for a patient with cleft lip and palate: a clinical report. DaBreo EL, et al. **J Prosthet Dent** 1990 Feb;63(2):119–21

Interocclusal wax impressions for use in provisional and associated fixed prosthodontic procedures. Hoffman JM, et al. **J Prosthet Dent** 1989 Oct;62(4):395–400

Marginal accuracy of provisional restorative materials. Koumjian JH, et al. **J Prosthet Dent** 1990 Jun;63(6):639–42

Modification of an existing removable partial denture for use as an interim prosthesis. Markus SJ. **J Prosthet Dent** 1989 Nov;62(5):500–2

DENTURE, PRECISION ATTACHMENT

Residual ridge changes under titanium plasma-sprayed screw implant systems. el Charkawi HG. **J Prosthet Dent** 1989 Nov;62(5):576–80

Photoelastic analysis and comparison of force-transmission characteristics of intracoronal attachments with clasp distal-extension removable partial dentures. Chou TM, et al. **J Prosthet Dent** 1989 Sep;62(3):313–9

[In vitro research on the attachment of bonded bridges] Haberland E, et al. **Zahn Mund Kieferheilkd** 1990;78(3):263 **(Ger)**

[Closure of clefts of the hard palate using prostheses anchored with precision attachments] Gegesi Kiss J, et al. **Fogorv Sz** 1988 Oct;81(10):289–94 (Eng. Abstr.) **(Hun)**

ADVERSE EFFECTS

[Magnets used in dentistry. Preliminary data on in vitro biocompatibility] Gonella AM, et al. **Minerva Stomatol** 1989 Oct;38(10):1053–8 (Eng. Abstr.) **(Ita)**

DENTURE RETENTION see **DENTAL PROSTHESIS RETENTION**

DENTURE STABILITY see **DENTAL PROSTHESIS RETENTION**

DENTURES see **DENTAL PROSTHESIS**

DENTURISTS see under **DENTAL AUXILIARIES**

DEODORANTS

ADVERSE EFFECTS

Allergic contact dermatitis from propyl gallate: dose response comparison using various application methods. Kraus AL, et al. **Contact Dermatitis** 1990 Mar;22(3):132–6

Building related illness involving formaldehyde and other volatile organic compounds. Bayer CW, et al. **Exp Pathol** 1989;37(1–4):147–9

DEONTOLOGICAL ETHICS see **ETHICS**

DEOXY SUGARS

Preparation of a fine powder of 2-deoxy-2-[18F]fluoro-D-glucose suitable for inhalation to diagnose lung diseases by means of PET. Ojima F, et al. **Ann Nucl Med** 1989 Nov;3(3):143–7

Neither adrenergic nor cholinergic antagonists in the central nervous system affect 2-deoxy-D-glucose(2-DG)-induced hyperglycemia. Iguchi A, et al. **Brain Res** 1990 Mar 5; 510(2):321–5

Routine production of 2-deoxy-2-[18F]fluoro-D-glucose by direct nucleophilic exchange on a quaternary 4-aminopyridinium resin. Toorongian SA, et al. **Int J Rad Appl Instrum [B]** 1990;17(3):273–9

Receptor autoradiography and 2-deoxyglucose techniques in neuroscience. Wiederhold KH, et al. **J Microsc** 1990 Mar;157 (Pt 3):335–47 (34 ref.)

Effect of aminoguanidine on the glycation. Oimomi M, et al. **Kobe J Med Sci** 1989 Dec;35(5–6):255–9

ANALYSIS

Measurement of 2-deoxyglucose and 2-deoxyglucose 6-phosphate in tissues. Manchester JK, et al. **Anal Biochem** 1990 Feb 15;185(1):118–24

ANTAGONISTS & INHIBITORS

Increase in gastric secretion induced by 2-deoxy-D-glucose is impaired in capsaicin pretreated rats. Evangelista S, et al. **Br J Pharmacol** 1989 Sep;98(1):35–7

BIOSYNTHESIS

Cloning of genes governing the deoxysugar portion of the erythromycin biosynthesis pathway in Saccharopolyspora erythraea (Streptomyces erythreus). Vara J, et al. **J Bacteriol** 1989 Nov;171(11):5872–81

BLOOD

Simultaneous determination of 2-deoxy-D-glucose and D-glucose in rat serum by high-performance liquid chromatography with post-column fluorescence derivatization. Umegae Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):963–5

Simple enzymatic method for determining 1,5-anhydro-D-glucitol in plasma for diagnosis of diabetes mellitus. Yabuuchi M, et al. **Clin Chem** 1989 Oct; 35(10):2039–43

Plasma 1,5-anhydroglucitol in experimental galactosemia in the rat. Pitkänen E, et al. **Experientia** 1990 Jan 15;46(1):85–7

A method for the diagnosis of glycogen storage disease type Ib using polymorphonuclear leukocytes. Bashan N, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:346–8

[Significance of 1,5-anhydroglucitol analysis in clinical tests] Kawai A. **Nippon Rinsho** 1989 Dec;48 Suppl:439–42 **(Jpn)**

[New diagnostic tests for diabetes mellitus. 1,5-anhydroglucitol] Yamanouchi T, et al. **Nippon Rinsho** 1989 Nov;47(11):2472–6 **(Jpn)**

CHEMICAL SYNTHESIS

Elimination of contaminant Kryptofix 2.2.2 in the routine production of 2-[18F]fluoro-2-deoxy-D-glucose. Moerlein SM, et al. **Int J Rad Appl Instrum [A]** 1989; 40(9):741–3

DIAGNOSTIC USE

Routine 18F-2-deoxy-2-fluoro-D-glucose (18F-FDG) myocardial tomography using a normal large field of view gamma-camera. Höflin F, et al. **Angiology** 1989 Dec; 40(12):1058–64

Infantile spasms: I. PET identifies focal cortical dysgenesis in cryptogenic cases for surgical treatment. Chugani HT, et al. **Ann Neurol** 1990 Apr;27(4):406–13

Double-label and conventional deoxyglucose methods: a practical guide for the user. Redies C, et al. **Cerebrovasc Brain Metab Rev** 1989 Winter;1(4):319–67 (153 ref.)

F-18 fluorodeoxyglucose: its potential in differentiating between stress fracture and neoplasia. Paul R, et al. **Clin Nucl Med** 1989 Dec;14(12):906–8

Reproducibility of cerebral glucose utilization measured by PET and the [18F]-2-fluoro-2-deoxy-d-glucose method in resting, healthy human subjects. Maquet P, et al. **Eur J Nucl Med** 1990;16(4–6):267–73

[18F]-fluorodeoxyglucose (FDG) and positron emission tomography (PET) in aging and dementia. A decade of studies. Hoffman JM, et al. **Eur Neurol** 1989;29 Suppl 3:16–24 (87 ref.)

A comparison of 131I-labeled antibodies, 2-deoxy-2-[18F]fluoro-D-glucose and 68Ga-EDTA in the imaging of human tumor xenografts in nude mice. Brownell AL, et al. **Int J Rad Appl Instrum [B]** 1990; 17(3):281–6

Michaelis-Menten constraints improved cerebral glucose metabolism and regional lumped constant measurements

with [18F]fluorodeoxyglucose. Kuwabara H, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):180–9

The lumped constant of the deoxyglucose method in hypoglycemia: effects of moderate hypoglycemia on local cerebral glucose utilization in the rat. Suda S, et al. **J Cereb Blood Flow Metab** 1990 Jul;10(4):499–509

Tracheobronchial mucociliary clearance and alveolar epithelial permeability measured by PET with 18FDG powder. Hatazawa J, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):175–81

Monitoring liver tumor therapy with [18F]FDG positron emission tomography. Nagata Y, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):370–4

Ringlike uptake of [18F]FDG in brain abscess: a PET study. Sasaki M, et al. **J Comput Assist Tomogr** 1990 May–Jun; 14(3):486–7

Resolution of metabolic columns by a double-label 2-DG technique: interdigitation and coincidence in visual cortical areas of the same monkey. Friedman HR, et al. **J Neurosci** 1989 Dec;9(12):4111–21

Functional organization in the ferret visual cortex: a double-label 2-deoxyglucose study. Redies C, et al. **J Neurosci** 1990 Aug;10(8):2791–803

Magnetic resonance and fluorine-18 deoxyglucose imaging in the investigation of a spinal cord tumor [clinical conference] Alavi A, et al. **J Nucl Med** 1990 Mar; 31(3):360–4

Demonstration of prosthetic activation of central auditory pathways using [14C]-2-deoxyglucose. Evans DA, et al. **Laryngoscope** 1990 Feb;100(2 Pt 1):128–37

The metabolic anatomy of Parkinson's disease: complementary [18F]fluorodeoxyglucose and [18F]fluorodopa positron emission tomographic studies. Eidelberg D, et al. **Mov Disord** 1990;5(3):203–13

Cerebrovascular disease: use of fluorodeoxyglucose. Herholz K, et al. **Semin Neurol** 1989 Dec;9(4):293–300 (48 ref.)

The role of fluorodeoxyglucose-positron emission tomography in the evaluation of seizure disorders. Theodore WH. **Semin Neurol** 1989 Dec;9(4):301–6 (51 ref.)

[Evaluation of the effect of treatment in patients with liver tumors using 18F-fluorodeoxyglucose PET] Okazumi S, et al. **Kaku Igaku** 1989 Jun;26(6):793–7 (Eng. Abstr.) **(Jpn)**

[Comparison study of positron emission tomography, X-ray CT and MRI in parkinsonism with dementia] Okada J, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 May 25; 49(5):643–56 (Eng. Abstr.) **(Jpn)**

[Cerebral glucose metabolism in dementia (PET-FDG study)] Hatazawa J, et al. **Rinsho Hoshasen** 1989 Oct; 34(11):1343–8 (Eng. Abstr.) **(Jpn)**

[F-18 FDG PET in dementia] Ichiya Y. **Rinsho Hoshasen** 1989 Oct;34(11):1337–41 (Eng. Abstr.) **(Jpn)**

METABOLISM

Relationship between local brain glucose metabolism and maze patrolling in adult and aged rats. Jucker M, et al. **Act Nerv Super (Praha)** 1989 Oct;31(3):161–5

Triiodothyronine stimulates 2-deoxy-D-glucose uptake by organ cultured embryonic chick small intestine. Prager C, et al. **Acta Endocrinol (Copenh)** 1990 May;122(5):585–91

Local glucose utilization changes caused by subarachnoid contrast media in the rabbit. Ekholm SE, et al. **Acta Radiol** 1990 Mar;31(2):209–12

Stimulation of glucose transport by insulin and norepinephrine in isolated rat brown adipocytes. Marette A, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):C714–21

Isolation of mutant renal (LLC-PK1) epithelia defective in basolateral, Na(+)-independent glucose transport. Mullin JM, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):F1039–49

Cerebrospinal fluid ionic regulation, cerebral blood flow, and glucose use during chronic metabolic alkalosis. Schröck H, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1220–7

Mechanism for acute reduction of 1,5-anhydroglucitol in rats treated with diabetogenic agents. Yamanouchi T, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):E423–7

Metabolism of 2-deoxy-2-[18F]fluoro-D-glucose: presence of 2-deoxy-2-[18F]fluoro-D-glucose 6-phosphate in plasma of mice, rats, and humans. Ishiwata K, et al. **Ann Nucl Med** 1987 Sep;1(1):51–4

Determination of the role of polyphosphate in transport-coupled phosphorylation in the yeast Saccharomyces cerevisiae. Schuddemat J, et al. **Antonie Van Leeuwenhoek** 1990 Apr;57(3):159–64

The effect of amylin and calcitonin gene-related peptide on insulin-stimulated glucose transport in the diaphragm. Hothersall JS, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):451–4

Role of guanine nucleotide regulatory proteins in insulin stimulation of glucose transport in rat adipocytes. Influence of bacterial toxins. Ciaraldi TP, et al. **Biochem J** 1989 Dec 1;264(2):389–96

Metabolic consequences of hyperinsulinaemia imposed on normal rats on glucose handling by white adipose tissue, muscles and liver. Cusin I, et al. **Biochem J** 1990 Apr 1; 267(1):99–103

Exchange of fluorinated glucose across the red-cell membrane measured by 19F-n.m.r. magnetization transfer. Potts JR, et al. **Biochem J** 1990 Mar 15;266(3):925–8

Synergistic activation of 2-deoxy-D-glucose uptake in rat and murine peritoneal macrophages by human macrophage colony-stimulating factor-stimulated coupling between transport and hexokinase activity and phorbol-dependent stimulation of pentose phosphate-shunt activity. Rist RJ, et al. **Biochem J** 1990 Jan 1;265(1):243–9

2-Deoxy-D-glucose uptake in cultured human muscle cells. Jacobs AE, et al. **Biochim Biophys Acta** 1990 Mar 9; 1051(3):230–6

Metabolism of 3-deoxyglucosone, an intermediate compound in the Maillard reaction, administered orally or intravenously to rats. Kato H, et al. **Biochim Biophys Acta** 1990 Jul 20;1035(1):71–6

Dependence and withdrawal following intracerebroventricular and systemic morphine administration: functional anatomy and behavior. Adams RE, et al. **Brain Res** 1990 Jun 4;518(1–2):6–10

Morphine-induced alterations of local cerebral glucose utilization in the basal ganglia of rats. Beck T, et al. **Brain Res** 1989 Sep 18;497(2):205–13

Global reduction in cerebral blood flow and metabolism elicited from intrinsic neurons of fastigial nucleus. Chida K, et al. **Brain Res** 1989 Oct 23;500(1–2):177–92

Adaptation of the quantitative 2-[14C]deoxyglucose method for use in freely moving rats. Crane AM, et al. **Brain Res** 1989 Oct 9;499(1):87–92

Sphenopalatine ganglion stimulation increases regional cerebral blood flow independent of glucose utilization in the cat. Goadsby PJ. **Brain Res** 1990 Jan 1;506(1):145–8

Effects of unilateral intrahippocampal injection of MK-801 upon local cerebral glucose utilisation in conscious rats. Kurumaji A, et al. **Brain Res** 1990 Jun 4;518(1–2):342–6

Effects of NMDA antagonists, MK-801 and CPP, upon local cerebral glucose use. Kurumaji A, et al. **Brain Res** 1989 Sep 4;496(1–2):268–84

The distribution of changes in local cerebral energy metabolism associated with brain stimulation reward to the medial forebrain bundle of the rat. Porrino LJ, et al. **Brain Res** 1990 Mar 12;511(1):1–6

Circadian variations in local cerebral glucose utilization in freely moving rats. Room P, et al. **Brain Res** 1989 Dec 29;505(2):321–5

High metabolic activity in the dorsal vagal complex of Brattleboro rats. Shaver SW, et al. **Brain Res** 1989 Dec 29;505(2):316–20

Odor-induced metabolic activity in the olfactory bulb of rats trained to detect propionic acid vapor. Slotnick BM, et al. **Brain Res** 1989 Oct 23;500(1–2):161–8

Local as well as remote functional and metabolic changes after focal ischemia in cats. Jaspers RM, et al. **Brain Res Bull** 1990 Jan;24(1):23–32

Different rates of functional development in the two visual systems of the chicken revealed by [14C]2-deoxyglucose. Rogers LJ, et al. **Brain Res Dev Brain Res** 1989 Oct 1; 49(2):161–72

Modified behavioral and olfactory bulb responses to maternal odors in preweanling rats. Sullivan RM, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):243–7

18Fluorodeoxyglucose positron emission tomography studies in presumed Alzheimer cases, including 13 serial scans. McGeer EG, et al. **Can J Neurol Sci** 1990 Feb;17(1):1–11

Autoradiographic assessment of pineal gland glucose utilization and capillary permeability in the unanesthetized rat. Cicciarello R, et al. **Childs Nerv Syst** 1990 Jun; 6(4):222–4

Regional brain glucose metabolism and blood flow in streptozocin-induced diabetic rats. Jakobsen J, et al. **Diabetes** 1990 Apr;39(4):437–40

Mechanism of insulin resistance induced by sustained levels of cytosolic free calcium in rat adipocytes. Draznin B, et al. **Endocrinology** 1989 Nov;125(5):2341–9

Antagonism by growth hormone of insulin-sensitive hexose transport in 3T3-F442A adipocytes. Silverman MS, et al. **Endocrinology** 1989 Nov;125(5):2600–4

Coupling of insulin-responsive glucose transport to receptors for insulin-like growth factor 1 in primary human fibroblasts. Maassen JA, et al. **Eur J Biochem** 1990 Jul 5; 190(3):553–7

Increased glucose use in the hypoglossal nucleus after hypoglossal nerve transection in aged rats. Singer PA, et al. **Exp Neurol** 1990 Apr;108(1):86–7

Local cerebral glucose utilization in the hippocampus of old rats. Tack W, et al. **Histochemistry** 1989;92(5):413–9

Effect of vitamin E on 2-deoxy-D-glucose uptake in human fibroblast cultures. Couturier M, et al. **In Vitro Cell Dev Biol** 1990 Jan;26(1):29–32

Rabbit hindlimb glucose uptake assessed with positron-emitting fluorodeoxyglucose. Mossberg KA, et al. **J Appl Physiol** 1989 Oct;67(4):1569–77

In vivo metabolism of 3-deoxy-3-fluoro-D-glucose. Berkowitz BA, et al. **J Biol Chem** 1990 Jul 25; 265(21):12417–23

Insulin regulation of the two glucose transporters in 3T3-L1 adipocytes. Calderhead DM, et al. **J Biol Chem** 1990 Aug 15;265(23):13801–8

Hexose transport stimulation and membrane redistribution of glucose transporter isoforms in response to cholera toxin, dibutyryl cyclic AMP, and insulin in 3T3-L1 adipocytes. Clancy BM, et al. **J Biol Chem** 1990 Jul 25;265(21):12434–43

The acquisition of increased insulin-responsive hexose transport in 3T3-L1 adipocytes correlates with expression of a novel transporter gene. Garcia de Herreros A, et al. **J Biol Chem** 1989 Nov 25;264(33):19994–9

Dissection of the growth versus metabolic effects of insulin and insulin-like growth factor-I in transfected cells expressing kinase-defective human insulin receptors. McClain DA, et al. **J Biol Chem** 1990 Jan 25;265(3):1678–82

Glycolysis-induced discordance between glucose metabolic rates measured with radiolabeled fluorodeoxyglucose and glucose. Ackermann RF, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):774–85

Effects of MK-801 upon local cerebral glucose utilisation in conscious rats and in rats anaesthetised with halothane. Kurumaji A, et al. **J Cereb Blood Flow Metab** 1989 Dec; 9(6):786–94

Why the deoxyglucose method has proven so useful in cerebral activation studies: the unappreciated prevalence of stimulation-induced glycolysis. Lear JL, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):911–3

Kinetics of deoxyglucose (DG) and fluorodeoxyglucose (FDG) metabolism in rat and ferret brain [letter] Miller AL, et al. **J Cereb Blood Flow Metab** 1990 Jan;10(1):147–8

Sequential metabolic changes in rat brain following middle cerebral artery occlusion: a 2-deoxyglucose study. Shiraishi K, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):765–73

Computer-assisted three-dimensional reconstructions of [14C]-2-deoxy-D-glucose metabolism in cat lumbosacral spinal cord following cutaneous stimulation of the hindfoot. Crockett DP, et al. **J Comp Neurol** 1989 Oct 8; 288(2):326–38

3,5,3'-tri-iodothyronine enhances sugar transport in rat thymocytes by increasing the intrinsic activity of the plasma membrane sugar transporter. Segal J, et al. **J Endocrinol** 1990 Jan;124(1):133–40

Acid lability of metabolites of 2-deoxyglucose in rat brain: implications for estimates of kinetic parameters of deoxyglucose phosphorylation and transport between blood and brain. Dienel GA, et al. **J Neurochem** 1990 Apr; 54(4):1440–8

Simultaneous in vivo monitoring of cerebral deoxyglucose and deoxyglucose-6-phosphate by 13C[1H] nuclear magnetic resonances spectroscopy. Kotyk JJ, et al. **J Neurochem** 1989 Nov;53(5):1620–8

Optimal duration of experimental period in measurement of local cerebral glucose utilization with the deoxyglucose method. Mori K, et al. **J Neurochem** 1990 Jan;54(1):307–19

Bilateral alterations in local cerebral glucose utilization following intranigral application of the GABAergic agonist muscimol. Dermon CR, et al. **J Neurosci** 1990 Sep; 10(9):2861–78

14C-2-deoxyglucose uptake in the ground squirrel brain during entrance to and arousal from hibernation. Kilduff TS, et al. **J Neurosci** 1990 Jul;10(7):2463–75

Measurement of cerebral glucose utilization from brain uptake of [14C]2-deoxyglucose and [3H]3-O-methylglucose in the mouse. Ito K, et al. **J Pharmacol Methods** 1990 Apr;23(2):129–40

Effect of cytochalasin B on the uptake of ascorbic acid and glucose by 3T3 fibroblasts: mechanism of impaired ascorbate transport in diabetes. Fay MJ, et al. **Life Sci** 1990; 46(9):619–24

Comparison of the effects of central and peripheral aluminum administration on regional 2-deoxy-D-glucose incorporation in the rat brain. Lipman JJ, et al. **Life Sci** 1989;45(21):1977–87

Effects of phorbol ester on immunoreactive protein kinase C, insulin binding, and glucose uptake in astrocytic glial and neuronal cells from the brain. Mudd LM, et al. **Neurochem Res** 1990 Mar;15(3):273–8

Spreading depression following experimental head injury in the rat. Sunami K, et al. **Neurol Med Chir (Tokyo)** 1989 Nov;29(11):975–80

Evidence for common alterations in cerebral glucose metabolism in major affective disorders and schizophrenia. Cohen RM, et al. **Neuropsychopharmacology** 1989 Dec; 2(4):241–54

High activity neurons in the reticular formation of the medulla oblongata: a high-resolution autoradiographic 2-deoxyglucose study. Duncan GE, et al. **Neuroscience** 1990;35(3):593–600

Clonidine attenuates increased brain glucose metabolism during naloxone-precipitated morphine withdrawal. Kimes AS, et al. **Neuroscience** 1990;34(3):633–44

Neural mechanisms underlying parkinsonian symptoms based upon regional uptake of 2-deoxyglucose in monkeys exposed to 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine. Mitchell IJ, et al. **Neuroscience** 1989;32(1):213–26

Freeze-mount microautoradiographic study in the mouse hippocampus after intravenous injection of tritiated 2-deoxyglucose and glucose. Shimada M, et al. **Neuroscience** 1989;31(2):347–54

Changes of local cerebral glucose utilization, DC potential and extracellular potassium concentration in experimental head injury of varying severity. Kubota M, et al. **Neurosurg Rev** 1989;12 Suppl 1:393–9

Hypermetabolic state following experimental head injury. Sunami K, et al. **Neurosurg Rev** 1989;12 Suppl 1:400–11

Local cerebral glucose metabolism after global ischemia: treatment by ventriculocisternal perfusion with a fluorocarbon emulsion. Triolo AJ, et al. **Neurosurgery** 1990 Mar;26(3):480–7; discussion 487–8

Early effects of intra-arterial chemotherapy in patients with brain tumours studied with PET: preliminary results. Langen KJ, et al. **Nucl Med Commun** 1989 Nov; 10(11):779–90

Regional cerebral glucose metabolism differs in adult and rigid juvenile forms of Huntington disease. Matthews PM,

et al. **Pediatr Neurol** 1989 Nov-Dec;5(6):353-6
Use of nonradioactive 2-deoxyglucose to study compartmentation of brain glucose metabolism and rapid regional changes in rate. McDougal DB Jr, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1357-61
Desmopressin, but not vasopressin, decreases activity of the hypothalamo-neurohypophysial system in Brattleboro rats. Kadekaro M, et al. **Regul Pept** 1990 Apr 24;28(2):153-9
Effects of sound on fetal cerebral glucose utilization. Granier-Deferre C, et al. **Semin Perinatol** 1989 Oct; 13(5):371-9 (59 ref.)

PHARMACOKINETICS

Regional glucose phosphorylation rate in rat brain during acute ethanol intoxication. Brøndsted HE, et al. **Acta Neurol Scand** 1990 Mar;81(3):229-32
Glucose phosphorylation rate in rat parietal cortex during normoglycemia, hypoglycemia, acute hyperglycemia, and in diabetes-prone rats. Brøndsted HE, et al. **Acta Neurol Scand** 1990 Mar;81(3):233-6
Positron emission tomography study of 11C-acetoacetate uptake in a freezing lesion in cat brain, as correlated with 11C-tyrosine and 18F-fluorodeoxyglucose uptake, and with proton magnetic resonance imaging. Go KG, et al. **Adv Neurol** 1990;52:525-8
N-methyl-D-aspartate antagonist reduces stroke size and regional glucose metabolism. Simon R, et al. **Ann Neurol** 1990 Jun;27(6):606-11
Hexose transport in human myoblasts. Mesmer OT, et al. **Biochem J** 1989 Aug 15;262(1):15-24
Postischemic glucose utilization in rat hippocampal layers. Beck T, et al. **Brain Res** 1990 Feb 26;510(1):74-83
Time courses of behavioral and regional cerebral metabolic responses to different doses of meta-chlorophenylpiperazine in awake rats. Freo U, et al. **Brain Res** 1990 Mar 19;511(2):209-16
Maternal thermal stimulation changes metabolic activity in fetal hypothalamus. Imai-Matsumura K, et al. **Brain Res** 1990 Apr 16;513(2):295-8
Local cerebral glucose utilization following subacute and chronic diazepam pretreatment: differential tolerance. Laurie DJ, et al. **Brain Res** 1989 Dec 11;504(1):101-11
Specific alterations in cardiovascular function and in glucose utilisation within lower brainstem nuclei following intracisternal neuropeptide Y in the conscious rat. Macrae IM, et al. **Brain Res** 1990 May 7;515(1-2):99-103
Cerebral glucose utilization during sleep-wake cycle in man determined by positron emission tomography and [18F]2-fluoro-2-deoxy-D-glucose method. Maquet P, et al. **Brain Res** 1990 Apr 9;513(1):136-43
Cerebral glucose utilization during diazepam withdrawal in rats. Marietta CA, et al. **Brain Res** 1990 Mar 19; 511(2):192-6
Glucose utilization in human visual cortex is abnormally elevated in blindness of early onset but decreased in blindness of late onset. Veraart C, et al. **Brain Res** 1990 Feb 26;510(1):115-21
Regional changes in brain 14C-2-deoxyglucose uptake after feeding-inducing intrahypothalamic norepinephrine injections. Nobrega JN, et al. **Brain Res Bull** 1990 Feb; 24(2):249-55
Rapid changes in 2-deoxyglucose uptake and amino acid incorporation following unilateral odor deprivation: a laminar analysis. Korol DL, et al. **Brain Res Dev Brain Res** 1990 Mar 1;52(1-2):75-84
Consequences of chronic phenobarbital treatment on local cerebral glucose utilization in the developing rat. Pereira de Vasconcelos A, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):168-78
Regional cerebral glucose metabolism in Turner syndrome. Clark C, et al. **Can J Neurol Sci** 1990 May;17(2):140-4
Activation of bovine monocytes and neutrophils by the Bb fragment of complement factor B: demonstration by the uptake of 3H-deoxyglucose. Sethi MS, et al. **Can J Vet Res** 1990 Jan;54(1):106-12
Cerebral uptake of [14C]deoxyglucose during the entire seizure and the recovery period in an El mouse. Nakamoto Y, et al. **Epilepsy Res** 1990 Jan-Feb;5(1):43-8
Fibroblast growth factor inhibits epidermal growth factor-induced responses in rat astrocytes. Huff KR, et al. **GLIA** 1990;3(3):193-204
Relationship between insulin stimulation and endogenous regulation of 2-deoxyglucose uptake in 3T3-L1 adipocytes. Lange K, et al. **J Cell Physiol** 1990 Jan;142(1):1-14
Kinetic model of 2-deoxyglucose metabolism using brain slices. Newman GC, et al. **J Cereb Blood Flow Metab** 1990 Jul;10(4):510-26
Refinement of the kinetic model of the deoxyglucose method [letter] Redies C. **J Cereb Blood Flow Metab** 1990 May; 10(3):435-8
Deoxyglucose lumped constant estimated in a transplanted rat astrocytic glioma by the hexose utilization index. Spence AM, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):190-8
Cerebral diaschisis in patients with malignant glioma. Rozental JM, et al. **J Neurooncol** 1990 Apr;8(2):153-61
Effect of propentofylline on the biochemical lesion of the rat brain in aluminium-induced neurotoxicity. Stefanovich V, et al. **Metab Brain Dis** 1990 Mar;5(1):7-17
Neural mechanisms of dystonia: evidence from a 2-deoxyglucose uptake study in a primate model of dopamine agonist-induced dystonia. Mitchell IJ, et al. **Mov Disord** 1990;5(1):49-54
Neuronal substrates involved in processing of communicative acoustic signals in tree shrews: a 2-deoxyglucose study. Binz H, et al. **Neurosci Lett** 1990 Apr 20;112(1):25-30
The effects of monoamine oxidase inhibition and dopamine uptake blockade on MPTP-induced increase of 2-[3H]deoxyglucose uptake in specific mesencephalic catecholaminergic nuclei. Hess A. **Neurosci Lett** 1990 Apr 20;112(1):7-13
Metabolic activation of the fetal rat brain. Morimoto A, et al. **Neurosci Lett** 1990 Mar 26;111(1-2):34-8
Topographical assessment of accumulated radioactivity from [14C]2-deoxyglucose and [6(-14C)]glucose in rat forebrain at different survival periods. Duncan GE, et al. **Neuroscience** 1989;32(3):813-22
Regional changes in brain 2-14C-deoxyglucose uptake induced by convulsant and non-convulsant doses of lindane. Sanfeliu C, et al. **Neurotoxicology** 1990 Winter; 10(4):727-42
[PET assessment of myocardial viability with glucose loading and fasting FDG images] Niwayama H, et al. **Kaku Igaku** 1990 Mar;27(3):285-8 (Eng. Abstr.) **(Jpn)**
[Quantitative evaluation of myocardial blood flow and myocardial fluoro-deoxyglucose uptake determined by PET before and after aorto-coronary bypass operation in patients with ischemic heart disease] Takahashi A, et al. **Kaku Igaku** 1990 Mar;27(3):227-35 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Effects of 2-deoxy-D-glucose on sympathetic nerve activity to interscapular brown adipose tissue. Egawa M, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1377-85
Lateral hypothalamic injection of 2-deoxy-D-glucose suppresses sympathetic activity. Egawa M, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1386-92
Effects of glucose, 2-deoxyglucose, phlorizin, and insulin on food intake of lean and fatty rats. Tsujii S, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):E476-81
Inhibition of the alpha-L-arabinofuranosidase III of Monilinia fructigena by 1,4-dideoxy-1,4-imino-L-threitol and 1,4-dideoxy-1,4-imino-L-arabinitol. Axamawaty MT, et al. **Biochem J** 1990 Feb 15;266(1):245-9
Effect of capsaicin-sensitive sensory nerves on plasma glucose and catecholamine levels during 2-deoxyglucose-induced stress in conscious rats. Zhou XF, et al. **Br J Pharmacol** 1990 Jul;100(3):523-9
2-deoxy-D-glucose-induced hyperglycemia: role for direct sympathetic nervous system activation of liver glucose output. Pascoe WS, et al. **Brain Res** 1989 Dec 25; 505(1):23-8
Effects of 2-deoxyglucose on drug-sensitive and drug-resistant human breast cancer cells: toxicity and magnetic resonance spectroscopy studies of metabolism. Kaplan O, et al. **Cancer Res** 1990 Feb 1;50(3):544-51
Effects of 3-deoxyglucosone on the Maillard reaction. Igaki N, et al. **Clin Chem** 1990 Apr;36(4):631-4
Changes in responsiveness of the hypothalamic-pituitary-adrenocortical axis to 2-deoxy-D-glucose in developing rats. Widmaier EP. **Endocrinology** 1990 Jun;126(6):3116-23
Hepatic branch vagotomy attenuates the feeding response to 2-deoxy-D-glucose in rats [published erratum appears in Exp Physiol 1990 May;75(3):431] Delprete E, et al. **Exp Physiol** 1990 Mar;75(2):259-61
2-Deoxy-D-glucose resistant yeast with altered sugar transport activity. Novak S, et al. **FEBS Lett** 1990 Aug 20;269(1):202-4
Pancreatic exocrine responses to secretin, 2-deoxyglucose, a meal, and ethanol after coeliac ganglionectomy in the conscious dog. Johnson CD, et al. **Gut** 1989 Dec; 30(12):1765-70
2-Deoxy-D-glucose induced modification of chromosomal damage in UV-irradiated peripheral human leukocytes. Kalia VK, et al. **Indian J Exp Biol** 1989 Nov;27(11):1005-7
2-Deoxy-D-glucose inhibits the antitumor effects of alpha-difluoromethylornithine on the growth of colon cancer in vivo. Saydjari R, et al. **Invest New Drugs** 1989 Jul;7(2-3):131-8
Methyl transfer in chemotaxis toward sugars by Bacillus subtilis. Thoelke MS, et al. **J Bacteriol** 1990 Feb; 172(2):1148-50
The effects of 2-deoxy-D-glucose and sympathetic denervation of brown fat GDP binding in Sprague-Dawley rats. Gong TW, et al. **Life Sci** 1990;46(14):1037-44
The effect of cellular glucoprivation on skin temperature regulation in the rat. Simpkins JW, et al. **Life Sci** 1990; 47(2):107-15
Simultaneous determination of plasma noradrenaline and adrenaline kinetics. Responses to nitroprusside-induced hypotension and 2-deoxyglucose-induced glucopenia in the rabbit. Medvedev OS, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):192-9
Alteration of metabolism of acetylcholine induced by 2-deoxy-D-glucose in the gastroduodenum of the rat. Muramatsu M, et al. **Neuropharmacology** 1990 Jan; 29(1):47-54
Hypothalamic monoamines measured by microdialysis in rats treated with 2-deoxy-glucose or d-fenfluramine. Shimizu H, et al. **Physiol Behav** 1989 Nov;46(5):799-807
Opposite effect of adrenalectomy on rat brain prostaglandin synthesis in basal conditions and in response to insulin or 2-deoxy-glucose. Weidenfeld J, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Dec; 38(3):173-6
Alteration of gastroduodenal acetylcholine metabolism induced by 2-deoxy-D-glucose in rats. Chaki S, et al. **Scand J Gastroenterol Suppl** 1989;162:100-3

THERAPEUTIC USE

In vitro radiation responses of human intracranial meningiomas & their modifications by 2-deoxy-D-glucose. Dwarakanath BS, et al. **Indian J Med Res** 1990 Jun; 92:183-8
Repair inhibition in tumours irradiated with fast protons and negative pions. Jüling-Pohlit L, et al. **Strahlenther Onkol** 1990 Jan;166(1):6-9

DEOXYADENINE NUCLEOTIDES

[Nonionic analogs of oligonucleotide duplexes. Calculations using a molecular mechanics methods of the effect of configuration at the asymmetrical phosphorus atom in phosphonic and triester derivatives of d(TpCH3)6, d(TpOEt)6 on the structure and stability of their complexes with dA6] Vorob'ev IuN. **Mol Biol (Mosk)** 1990 Jan-Feb; 24(1):58-68 (Eng. Abstr.) **(Rus)**

ANALYSIS

Effects of 3'-azido-3'-deoxythymidine on the deoxynucleoside triphosphate pools of cultured human cells. Frick LW, et al. **Adv Exp Med Biol** 1989;253B:389-94

BLOOD

Spectrophotometric estimation of erythrocyte ATP and deoxyadenosine triphosphate using hexokinase and glucokinase. Nakashima K, et al. **Clin Chim Acta** 1990 May; 188(3):267-70
Comparison of red cell transfusion and polyethylene glycol-modified adenosine deaminase therapy in an adenosine deaminase-deficient child: measurement of erythrocyte deoxyadenosine triphosphate as a useful tool. Bory C, et al. **Pediatr Res** 1990 Aug;28(2):127-30

METABOLISM

Incorporation of 2-halogeno-2'-deoxyadenosine 5-triphosphates into DNA during replication by human polymerases alpha and beta. Hentosh P, et al. **J Biol Chem** 1990 Mar 5;265(7):4033-40

DEOXYADENOSINE PHOSPHATES see **DEOXYADENINE NUCLEOTIDES**

DEOXYADENOSINECOBALAMINS see **COBAMIDES**

DEOXYADENOSINES

NMR studies of an exocyclic 1,N2-propanodeoxyguanosine adduct (X) located opposite deoxyadenosine (A) in DNA duplexes at basic pH: simultaneous partial intercalation of X and A between stacked bases. Kouchakdjian M, et al. **Biochemistry** 1990 May 8;29(18):4456-65
DNA polymerase action on bulky deoxyguanosine and deoxyadenosine adducts. Reardon DB, et al. **Carcinogenesis** 1990 Jan;11(1):165-8
Preparation of a novel psoralen containing deoxyadenosine building block for the facile solid phase synthesis of psoralen-modified oligonucleotides for a sequence specific crosslink to a given target sequence. Pieles U, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):8967-78

ADMINISTRATION & DOSAGE

Lasting remissions in hairy-cell leukemia induced by a single infusion of 2-chlorodeoxyadenosine. Piro LD, et al. **N Engl J Med** 1990 Apr 19;322(16):1117-21

ADVERSE EFFECTS

Profound toxicity of deoxyadenosine and 2-chlorodeoxyadenosine toward human monocytes in vitro and in vivo. Carrera CJ, et al. **Adv Exp Med Biol** 1989; 253B:219-25

ANALYSIS

Nucleic acid hybridization assays employing dA-tailed capture probes. I. Multiple capture methods. Morrissey DV, et al. **Anal Biochem** 1989 Sep;181(2):345-59
Detection of 1,N6-propanodeoxyadenosine in acrolein-modified polydeoxyadenylic acid and DNA by 32P postlabeling. Smith RA, et al. **Cancer Res** 1990 May 15;50(10):3005-12

BIOSYNTHESIS

Biosynthesis and metabolism of 9-[5'-deoxy-5'-(methylthio)-beta-D-xylofuranosyl]adenine, a novel natural analogue of methylthioadenosine. Porcelli M, et al. **Biochem J** 1989 Nov 1;263(3):635-40

CHEMICAL SYNTHESIS

Synthesis and cytotoxicity of deoxyadenosine analogues: isomer distribution in the sodium salt glycosylation of 2,6-disubstituted purines. Kazimierczuk Z, et al.

J Med Chem 1990 Jun;33(6):1683–7

DIAGNOSTIC USE

Nucleic acid hybridization assays employing dA-tailed capture probes. II. Advanced multiple capture methods. Hunsaker WR, et al. Anal Biochem 1989 Sep;181(2):360–70

Elimination of malignant clonogenic T cells from human bone marrow using chemoimmunoseparation with 2'-deoxycoformycin, deoxyadenosine and an immunotoxin. Montgomery RB, et al. Bone Marrow Transplant 1990 Jun; 5(6):395–402

ISOLATION & PURIFICATION

[Chemical constituents of Cordyceps militaris (L.) Link.] Liu JM, et al. Chung Kuo Chung Yao Tsa Chih 1989 Oct; 14(10):608–9, 639 (Eng. Abstr.) (Chi)

METABOLISM

Metabolic activation of 2,6-diaminopurine and 2,6-diaminopurine-2'-deoxyriboside to antitumor agents. Weckbecker G, et al. Adv Enzyme Regul 1989;28:125–44

Investigations on the relationship between DNA ethenobase adduct levels in several organs of vinyl chloride-exposed rats and cancer susceptibility. Ciroussel F, et al. Biochem Pharmacol 1990 Mar 15;39(6):1109–13

Selective inactivation of the deoxyadenosine phosphorylating activity of pure human deoxycytidine kinase: stabilization of different forms of the enzyme by substrates and biological detergents. Kierdaszuk B, et al. Biochemistry 1990 May 1;29(17):4109–14

Purine deoxynucleoside salvage in Giardia lamblia. Baum KF, et al. J Biol Chem 1989 Dec 15;264(35):21087–90

Ethanol increases extracellular adenosine by inhibiting adenosine uptake via the nucleoside transporter. Nagy LE, et al. J Biol Chem 1990 Feb 5;265(4):1946–51

Template primer–dependent binding of 5'-fluorosulfonyl-benzoyldeoxyadenosine by Escherichia coli DNA polymerase I. Identification of arginine 682 as the binding site and its implication in catalysis. Pandey VN, et al. J Biol Chem 1990 Mar 5;265(7):3679–84

Mycoplasma contamination alters 2'-deoxyadenosine metabolism in deoxycoformycin–treated mouse leukemia cells. Plagemann PG, et al. J Cell Biochem 1990 Jun; 43(2):161–72

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy. Van den Eeckhout E, et al. J Chromatogr 1990 Mar 30;504(1):113–28

PHARMACOLOGY

Mechanism of ATP catabolism induced by deoxyadenosine and other nucleosides in adenosine deaminase–inhibited human erythrocytes. Bontemps F, et al. Adv Exp Med Biol 1989;253B:267–74

Analogs of 3'-amino-3'-deoxyadenosine inhibit HIV-1 replication. Vander Heyden N, et al. AIDS Res Hum Retroviruses 1989 Dec;5(6):647–53

Preclinical studies on deoxycoformycin and deoxyadenosine as pharmacologic T cell purging tools. Sheridan W, et al. Bone Marrow Transplant 1989 Sep;4(5):511–7

Mechanisms of drug resistance to inhibitors directed at the individual subunits of ribonucleotide reductase. Carter GL, et al. Cancer Commun 1989;1(1):13–20

5–Hexyl–2'–deoxyuridine blocks the cytotoxic effects of 5–fluorodeoxyuridine or deoxyadenosine in leukemia L1210 cells in culture. Cory JG, et al. Cancer Res 1990 Aug 1; 50(15):4552–6

Mechanisms of inhibition of DNA synthesis by 2–chlorodeoxyadenosine in human lymphoblastic cells. Griffig J, et al. Cancer Res 1989 Dec 15;49(24 Pt 1):6923–8

Induction of DNA double–strand breaks in Chinese hamster V79 cells by 2–chlorodeoxyadenosine. Tanabe K, et al. Chem Biol Interact 1989;71(2–3):167–75

Interference of deoxyadenosine with transmembrane signaling events in human T lymphocytes. Scharenberg JG, et al. Int J Immunopharmacol 1990;12(1):113–20

Inhibition of in vitro tumor cell invasion by transmethylation inhibitors. Shinkai K, et al. Jpn J Cancer Res 1989 Aug; 80(8):716–9

Inhibition of lymphocyte-specific enzymes: a promising approach for selective immunosuppression. Ruers TJ, et al. Transplant Proc 1987 Feb;19(1 Pt 2):1287–9

RADIATION EFFECTS

Formation of alpha–deoxyadenosine in polydeoxynucleotides exposed to ionizing radiation under anoxic conditions. Lesiak KB, et al. Radiat Res 1990 Mar;121(3):328–37

THERAPEUTIC USE

Activity of 2–chloro–2'–deoxyadenosine in chronic lymphocytic leukemia, hairy cell leukemia, and autoimmune hemolytic anemia. Carson DA, et al. Adv Exp Med Biol 1989;253A:427–31 (13 ref.)

Antineoplastic effect of the combination of 2,3–dihydro–1H–pyrazole[2,3a]imidazole plus deoxyadenosine/erythro–9–(2–hydroxyl–3–nonyl)adenine in mice with L1210 leukemia cells. Matsumoto M, et al. Cancer Commun 1990;2(1):1–6

TOXICITY

The mechanism of 2–chlorodeoxyadenosine–induced cell death. Wataya Y, et al. Adv Exp Med Biol 1989; 253B:227–34

Characterization of poly(ADP–ribose) polymerase with human autoantibodies. Yamanaka H, et al. Adv Exp Med Biol 1989;253B:259–65

DEOXYCHOLATE see DEOXYCHOLIC ACID

DEOXYCHOLIC ACID

ADMINISTRATION & DOSAGE

New methods for delivery of antifungal agents. Meunier F. Rev Infect Dis 1989 Nov–Dec;11 Suppl 7:S1605–12 (59 ref.)

ANALOGS & DERIVATIVES

Improvement of biliary enzyme levels and itching as a result of long–term administration of ursodeoxycholic acid in primary biliary cirrhosis. Matsuzaki Y, et al. Am J Gastroenterol 1990 Jan;85(1):15–23

Cholecystectomy as the treatment of choice in cystic fibrosis [letter] Bilton D, et al. Am J Surg 1990 Sep;160(3):323–4

Lipoprotein (a) serum levels in chronic cholestatic liver disease during treatment with ursodeoxycholic acid [letter] Beuers U, et al. Arch Intern Med 1990 Jul;150(7):1542

Effects of ursodeoxycholate on maximal biliary secretion of bilirubin in the rat. Galan AI, et al. Biochem Pharmacol 1990 Apr 1;39(7):1175–80

Solubilization of multilamellar liposomes of egg yolk lecithin by the bile salt sodiumtaurodeoxycholate and the effect of cholesterol—a rapid–ultrafiltration study. Müller K, et al. Chem Phys Lipids 1990 Jan;52(2):111–27

Pre–replicative phase–related changes in bile acid–induced choleresis in the regenerating rat liver. Garcia–Marin JJ, et al. Clin Sci 1990 Jan;78(1):55–62

A computer model for evaluating the costs of cholecystectomy or ursodiol treatment in the management of cholelithiasis. Crain K. Clin Ther 1990 May–Jun; 12(3):250–62

Pharmacological aspects and therapeutic effects of ursodeoxycholic acid. Leuschner U, et al. Dig Dis 1990; 8(1):12–22 (81 ref.)

Advances in bile acid therapy. Proceedings of the Second International Ursodeoxycholic Acid Symposium. Vail, Colorado, August 26 and 27, 1988. Dig Dis Sci 1989 Dec; 34(12 Suppl):1S–65S

Bile acids reversible effects on small intestinal permeability. An in vitro study in the rabbit. Fasano A, et al. Dig Dis Sci 1990 Jul;35(7):801–8

Bile acid–lipoprotein interactions: effects of ursodeoxycholic acid (ursodiol). Fromm H. Dig Dis Sci 1989 Dec;34(12 Suppl):21S–23S

Gallstone dissolution therapy with ursodiol. Patient selection. Fromm H. Dig Dis Sci 1989 Dec;34(12 Suppl):36S–38S

Effect of ursodeoxycholic acid in chronic hepatitis and primary biliary cirrhosis. Osuga T, et al. Dig Dis Sci 1989 Dec;34(12 Suppl):49S–51S

Effect of different doses of ursodeoxycholic acid in chronic liver disease. Podda M, et al. Dig Dis Sci 1989 Dec;34(12 Suppl):59S–65S

Structure–activity relationship studies on natural and synthetic bile acid analogs. Roda A, et al. Dig Dis Sci 1989 Dec;34(12 Suppl):24S–35S

Effect of ursodeoxycholic acid administration on biliary lipid secretion in primary biliary cirrhosis. Roda E, et al. Dig Dis Sci 1989 Dec;34(12 Suppl):52S–58S

Gallstone dissolution therapy with ursodiol. Efficacy and safety. Salen G. Dig Dis Sci 1989 Dec;34(12 Suppl):39S–43S

Hepatocellular bile acid transport and ursodeoxycholic acid hypercholeresis. Scharschmidt BF, et al. Dig Dis Sci 1989 Dec;34(12 Suppl):5S–15S (60 ref.)

Is oriental folk use of bear bile vindicated (yet)? Achord JL. Gastroenterology 1990 Apr;98(4):1090–1

Postdissolution gallstone recurrence: a lifetime sentence to the rock pile or not? Auteri AG, et al. Gastroenterology 1990 Jan;98(1):241–2

Expression of HLA molecules on hepatocytes: does ursodeoxycholic acid prevent immunologic injury? Borum M, et al. Gastroenterology 1990 Aug;99(2):561–2

Gallstone recurrence after oral bile acid dissolution treatment [letter; comment] Borum M, et al. Gastroenterology 1990 Jun;98(6):1723–4 Comment on: Gastroenterology 1989 Sep;97(3):726–31.

Bile acids substituted in the 6 position prevent cholesterol gallstone formation in the hamster. Cohen BI, et al. Gastroenterology 1990 Feb;98(2):397–405

Asymptomatic primary sclerosing cholangitis treated with ursodeoxycholic acid. Hayashi H, et al. Gastroenterology 1990 Aug;99(2):533–5

Ursodeoxycholic acid in primary biliary cirrhosis: results of a controlled double–blind trial. Leuschner U, et al. Gastroenterology 1989 Nov;97(5):1268–74

Lovastatin added to ursodeoxycholic acid further reduces biliary cholesterol saturation. Logan GM, et al. Gastroenterology 1990 Jun;98(6):1572–6

Effects of ursodeoxycholic acid and taurine on serum liver enzymes and bile acids in chronic hepatitis. Podda M, et al. Gastroenterology 1990 Apr;98(4):1044–50

In vivo kinetics of radiolucent gallstone dissolution by oral dihydroxy bile acids. Senior JR, et al. Gastroenterology 1990 Jul;99(1):243–51

Acute effects of ursodeoxycholic and chenodeoxycholic acid on the small intestinal absorption of bile acids. Stiehl A, et al. Gastroenterology 1990 Feb;98(2):424–8

Effects of ursodeoxycholic acid on gallbladder contraction and cholecystokinin release in gallstone patients and normal subjects. van Erpecum KJ, et al. Gastroenterology 1990 Sep;99(3):836–42

Effects of ursodeoxycholic acid treatment on nutrition and liver function in patients with cystic fibrosis and longstanding cholestasis. Cotting J, et al. Gut 1990 Aug; 31(8):918–21

Hepatic biliary lipid secretion and gall bladder biliary lipid mass in gall stone patients: effect of ursodeoxycholic acid. Lanzini A, et al. Gut 1990 Feb;31(2):226–30

Treatment of patients with benign recurrent intrahepatic cholestasis [letter; comment] Bircher J. Hepatology 1989 Dec;10(6):1030–2 Comment on: Hepatology 1989 Apr;9(4):532–7.

Ursodeoxycholic acid in the treatment of primary biliary cirrhosis: first controlled data. Borum M, et al. Hepatology 1990 Jul;12(1):172–3

Hepatic expression of class I and class II major histocompatibility complex molecules in primary biliary cirrhosis: effect of ursodeoxycholic acid. Calmus Y, et al. Hepatology 1990 Jan;11(1):12–5

Ursodeoxycholate reduces hepatotoxicity of bile salts in primary human hepatocytes. Galle PR, et al. Hepatology 1990 Sep;12(3 Pt 1):486–91

Comprehensive study of the biliary bile acid composition of patients with cystic fibrosis and associated liver disease before and after UDCA administration. Nakagawa M, et al. Hepatology 1990 Aug;12(2):322–34

Unusual trihydroxy bile acids in the urine of patients treated with chenodeoxycholate, ursodeoxycholate or rifampicin and those with cirrhosis. Nakashima T, et al. Hepatology 1990 Feb;11(2):255–60

Prevention of ursodeoxycholate hepatotoxicity in the rabbit by conjugation with N–methyl amino acids. Schmassmann A, et al. Hepatology 1990 Jun;11(6):989–96

Ursodeoxycholic acid–induced changes of plasma and urinary bile acids in patients with primary biliary cirrhosis. Stiehl A, et al. Hepatology 1990 Sep;12(3 Pt 1):492–7

The ursodeoxycholate dose–dependent formation of ursodeoxycholate–glucuronide in the rat and the choleretic potencies [see comments] Takikawa H, et al. Hepatology 1990 May;11(5):743–9 Comment in: Hepatology 1990 May;11(5):888–90.

Cost–effectiveness of ursodiol: the creature from the black box. Diehl AK. J Gen Intern Med 1990 Jul–Aug;5(4):374–5

Medical management of gallstones: a cost–effectiveness analysis. Weinstein MC, et al. J Gen Intern Med 1990 Jul–Aug;5(4):277–84

Ursodeoxycholic acid for primary sclerosing cholangitis. Chazouillères O, et al. J Hepatol 1990 Jul;11(1):120–3

Ursodeoxycholic acid treatment for chronic cholestatic liver disease. James OF. J Hepatol 1990 Jul;11(1):5–8 (46 ref.)

Difference in the effects of ursodeoxycholate and its taurine conjugate on the biliary excretion of sulfobromophthalein in the rat. Kanai S, et al. J Hepatol 1990 Mar;10(2):174–9

Ursodeoxycholic acid in primary biliary cirrhosis: no evidence for toxicity in the stages I to III. Lotterer E, et al. J Hepatol 1990 May;10(3):284–90

Ursodeoxycholic acid for the treatment of primary biliary cirrhosis. Interim analysis of a double–blind multicentre randomized trial. The UDCA–PBC Study Group. Poupon RE, et al. J Hepatol 1990 Jul;11(1):16–21

Characterization of serum and urinary bile acids in patients with primary biliary cirrhosis by gas–liquid chromatography–mass spectrometry: effect of ursodeoxycholic acid treatment. Batta AK, et al. J Lipid Res 1989 Dec;30(12):1953–62

Synthesis of new bile acid analogues and their metabolism in the hamster: 3 alpha, 6 alpha–dihydroxy–6 beta–methyl–5 beta–cholanoic acid and 3 alpha, 6 beta–dihydroxy–6 alpha–methyl–5 beta–cholanoic acid. Matoba N, et al. J Lipid Res 1989 Jul;30(7):1005–14

Ursodeoxycholic acid, chenodeoxycholic acid, and 7–ketolithocholic acid are primary bile acids of the guinea pig. Tint GS, et al. J Lipid Res 1990 Jul;31(7):1301–6

Metabolism of 7 beta–alkyl chenodeoxycholic acid analogs and their effect on cholesterol metabolism in hamsters. Une M, et al. J Lipid Res 1990 Jun;31(6):1015–21

Effects of ursodeoxycholic acid therapy for liver disease associated with cystic fibrosis. Colombo C, et al. J Pediatr 1990 Sep;117(3):482–9

Potassium secretion in response to taurodeoxycholic acid in the newborn rabbit colon. Potter GD, et al. J Pediatr Gastroenterol Nutr 1989 Oct;9(3):365–70

The rapid evaluation of intestinal bacterial growth using a conjugate of ursodeoxycholic acid with para–aminobenzoic acid. Maeda Y, et al. J Pharmacobiodyn 1989 May; 12(5):272–80

Hydrolysis and absorption of a conjugate of ursodeoxycholic acid with para–aminobenzoic acid. Maeda Y, et al. J Pharmacobiodyn 1989 Dec;12(12):744–53

Ursodeoxycholic acid for prevention of acute rejection in liver transplant recipients [letter] Persson H, et al. Lancet 1990 Jul 7;336(8706):52–3

Effects of bile acid depletion and of ursodeoxycholic and chenodeoxycholic acids on biliary protein secretion in the

hamster. Malavolti M, et al. **Life Sci** 1990;46(23):1727–37
Gallstone dissolution agents. Fink A, et al. **Ohio Med** 1990 Mar;86(3):210–3
Effects of ursodeoxycholic acid on intrahepatic cholestasis. Mizoguchi Y, et al. **Osaka City Med J** 1989 Nov; 35(2):71–82
Choleretic effects of ursodeoxycholic acid on experimentally–induced intrahepatic cholestasis. Mizoguchi Y, et al. **Osaka City Med J** 1989 Nov;35(2):83–91
Effect of ursodeoxycholic acid (UDCA) on pancreatic enzyme secretion and gallbladder emptying. Lanzini A, et al. **Pancreas** 1990 Mar;5(2):128–35
Effect of ursodeoxycholic acid administration on bile acid composition in hamster bile. Matejka M, et al. **Pharmacol Res** 1990 May–Jun;22(3):297–305
Effect of intraduodenal bile and Na– taurodeoxycholate on exocrine pancreatic secretion and on plasma levels of secretin, pancreatic polypeptide, and gastrin in man. Riepl RL, et al. **Scand J Gastroenterol** 1990 Jan;25(1):45–53
Medical dissolution of gallstones by ursodeoxycholic acid: a clinical trial on 14 patients. Lin JT, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):370–6
[Determination of bile acids in bear gall drainage by thin layer chromatographic scanning] Wang FS, et al. **Yao Hsueh Hsueh Pao** 1989;24(5):397–400 (Eng. Abstr.) **(Chi)**
[Oral dissolving treatment of gallbladder calculi: focus in 1989] Erlinger S. **Ann Chir** 1989;43(6):417–9 (Eng. Abstr.) **(Fre)**
[Litholysis and lithotripsy of gallstones. State of the art and prospects] Waninger J, et al. **Fortschr Med** 1989 Nov 10; 107(32):679–82, 691 (29 ref.) (Eng. Abstr.) **(Ger)**
[Cholestatic liver diseases and modern bile acid therapy (Medica '89)] Stiefelhagen P. **Internist (Berl)** 1990 Jun; 31(6):434–5 **(Ger)**
[New aspects in therapeutic use of ursodeoxycholic acid] Held C. **Z Arztl Fortbild (Jena)** 1990;84(5):199–201 (16 ref.) **(Ger)**
[Effect of ursodeoxycholic acid on water immersion restraint stress ulcer of rats] Kawamura T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2373–8 (Eng. Abstr.) **(Jpn)**
[Nucleation time and growth time in patients with cholesterol gallstone—factors affecting nucleation time and growth time and effect of UDCA and CDCA] Nomura Y. **Nippon Shokakibyo Gakkai Zasshi** 1989 May;86(5):1103–13 (Eng. Abstr.) **(Jpn)**
[A new experimental trial for dissolution of gallbladder stones] Shimoda I, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2481 **(Jpn)**

ANTAGONISTS & INHIBITORS

Injury induced by fatty acids or bile acid in isolated human colonocytes prevented by calcium. Buset M, et al. **Cancer Lett** 1990 Apr 30;50(3):221–6
Colon cancer and dietary fiber: cellulose inhibits the DNA–damaging ability of bile acids. Cheah PY, et al. **Nutr Cancer** 1990;13(1–2):51–7

BLOOD

Decreased concentrations of deoxycholic acid in serum of uraemic patients with diarrhoea. Stenvinkel P, et al. **Scand J Clin Lab Invest** 1990 May;50(3):337–41

METABOLISM

Increased oxidoreduction of deoxycholic acid in cholecystectomised patients. Einarsson K, et al. **Gut** 1989 Sep;30(9):1275–8
Mechanism of intestinal formation of deoxycholic acid from cholic acid in humans: evidence for a 3–oxo–delta 4–steroid intermediate. Björkhem I, et al. **J Lipid Res** 1989 Jul; 30(7):1033–9
Intestinal absorption of unconjugated dihydroxy bile acids: non–mediation by the carrier system involved in long chain fatty acid absorption. Stremmel W, et al. **Lipids** 1990 Jan; 25(1):11–6
[Bacteriocholia and cholic acid level in the bile in cholelithiasis] Bekbergenov BM, et al. **Antibiot Khimioter** 1990 Jan;35(1):37–40 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Transport, metabolism, and effect of chronic feeding of lagodeoxycholic acid. A new, natural bile acid. Schmassmann A, et al. **Gastroenterology** 1990 Oct; 99(4):1092–104
Disposition and toxicity of amphotericin–B in the hyperlipidemic Zucker rat model. Vadiei K, et al. **Int J Obes** 1990;14(6):465–72

PHARMACOLOGY

Effects of secondary bile acids on the in vitro development of early somite rat embryos. Zusman I, et al. **Acta Anat (Basel)** 1990;138(2):144–9
Deoxycholate–stimulated release of peptide YY from the isolated perfused rabbit left colon. Ballantyne GH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G715–24
The effects of deoxycholate and sodium dodecyl sulphate on the serological reactivity of antigens isolated from six Bacteroides reference strains. Beckmann I, et al. **Antonie Van Leeuwenhoek** 1990 Feb;57(2):71–6
Morphological and functional recovery following exposure to deoxycholic acid. A study in the rat small intestine in vivo. Matovelo JA, et al. **APMIS** 1989 Sep;97(9):798–810
Mode of stimulatory action of deoxycholate in signal transduction system of isolated rat pancreatic acini. Nakanishi H, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):111–8
Uncoupler resistance in E. coli Tuv and Cuv is due to the exclusion of uncoupler by the outer membrane. Haworth RS, et al. **Biochim Biophys Acta** 1990 Aug 9;1019(1):67–72
Effects of an enteric anaerobic bacterial culture supernatant and deoxycholate on intestinal calcium absorption and disaccharidase activity. Walshe K, et al. **Gut** 1990 Jul; 31(7):770–6
In–vitro effects of cilofungin (LY121019), amphotericin B and amphotericin B–deoxycholate on human polymorphonuclear leucocytes. Van der Auwera P, et al. **J Antimicrob Chemother** 1989 Nov;24(5):747–63
The nature of choleresis induced by deoxycholate and its conjugates in the rabbit. Kanai S, et al. **Jpn J Physiol** 1989; 39(6):907–18
Effects of cholera toxin, Escherichia coli heat stable toxin and sodium deoxycholate on neurotensin release from the ileum in vivo. Eklund S, et al. **Regul Pept** 1989 Dec; 26(3):241–52
[Effects of heat treated cells of intestinal lactic acid bacteria in rats fed a deoxycholic acid diet] Shiina T, et al. **Jikken Dobutsu** 1990 Jul;39(3):325–35 (Eng. Abstr.) **(Jpn)**
[Characteristics of kinetics of phospholipid hydrolysis by phospholipase C from Bacillus cereus. Hydrolysis of phosphatidylcholine in the presence of deoxycholate] Voronin MV, et al. **Biokhimiia** 1990 Jan;55(1):87–94 (Eng. Abstr.) **(Rus)**

TOXICITY

Sex differences in response to four promotion regimens in spite of common first cellular steps in the hepatocellular cancer process initiated by diethylnitrosamine. Cameron RG, et al. **Cancer Lett** 1990 Apr 20;50(2):109–13
Enhanced preneoplastic liver lesion development under 'selection pressure' conditions after administration of deoxycholic or lithocholic acid in the initiation phase in rats. Kitazawa S, et al. **Carcinogenesis** 1990 Aug; 11(8):1323–8

2'-DEOXYCOFORMYCIN see **PENTOSTATIN**

DEOXYCORTICOSTERONE see **DESOXYCORTICOSTERONE**

DEOXYCYTIDINE

Branch migration mediated DNA labeling and cloning. Quartin RS, et al. **Biochemistry** 1989 Oct 31;28(22):8676–82
Cell proliferation in the bone marrow, thymus and spleen of mice studied by continuous, in vivo bromodeoxycytidine labelling and flow cytometric analysis. Crippen TL, et al. **Cell Tissue Kinet** 1989 May;22(3):203–12
Oligomerization of cytosine–containing nucleotide analogs in aqueous solution. Visscher J, et al. **J Mol Evol** 1990 Jan;30(1):3–6
A protected biotin containing deoxycytidine building block for solid phase synthesis of biotinylated oligonucleotides. Pieles U, et al. **Nucleic Acids Res** 1990 Aug 11; 18(15):4355–60

ANALOGS & DERIVATIVES

Structure of 5–methyl–2'–deoxycytidine. Sato T. **Acta Crystallogr C** 1988 May 15;44 (Pt 5):870–2
Investigations on the relationship between DNA ethenobase adduct levels in several organs of vinyl chloride–exposed rats and cancer susceptibility. Ciroussel F, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1109–13
Cytotoxicity and antitumor activity of 2',2'–difluorodeoxycytidine (Gemcitabine). Grindey GB, et al. **Cancer Invest** 1990;8(2):313
Modulatory activity of 2',2'–difluorodeoxycytidine on the phosphorylation and cytotoxicity of arabinosyl nucleosides. Gandhi V, et al. **Cancer Res** 1990 Jun 15;50(12):3675–80
Evaluation of the antitumor activity of gemcitabine (2',2'–difluoro–2'–deoxycytidine). Hertel LW, et al. **Cancer Res** 1990 Jul 15;50(14):4417–22
Comparative studies on the antitumor and immunosuppressive effects of the new fluorouracil derivative N4–trimethoxybenzoyl–5'–deoxy–5–fluorocytidine and its parent drug 5'–deoxy–5–fluorouridine. Miwa M, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):998–1003
Radiation, pool size and incorporation studies in mice with 5–chloro–2'–deoxycytidine. Santos O, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug;19(2):357–65
Comparative antitumor activity and intestinal toxicity of 5'–deoxy–5–fluorouridine and its prodrug trimethoxybenzoyl–5'–deoxy–5–fluorocytidine. Ninomiya Y, et al. **Jpn J Cancer Res** 1990 Feb;81(2):188–95

DIAGNOSTIC USE

[Relationship between Ara–C sensitivity of leukemic–colony forming units (L–CFU) and [3H] deoxycytidine suicide test of L–CFU] Umeda M, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 May;52(3):618–22 (Eng. Abstr.) **(Jpn)**

METABOLISM

Establishment of de novo DNA methylation patterns. Transcription factor binding and deoxycytidine methylation at CpG and non–CpG sequences in an integrated adenovirus promoter. Toth M, et al. **J Mol Biol** 1990 Aug 5;214(3):673–83

PHARMACOLOGY

Reduction of ara–C cytotoxicity in HL 60 cells by addition of deoxycytidine, cytidine or increased level of cytidine deaminase. Mejer J, et al. **Adv Exp Med Biol** 1989; 253B:335–9
The effect in vitro of 2'–deoxycytidine on the metabolism and cytotoxicity of 2',3'–dideoxycytidine. Bhalla KN, et al. **AIDS** 1990 May;4(5):427–31
2'–Deoxycytidine protects normal human bone marrow progenitor cells in vitro against the cytotoxicity of 3'–azido–3'–deoxythymidine with preservation of antiretroviral activity. Bhalla K, et al. **Blood** 1989 Nov 1; 74(6):1923–8
The effect of a prolonged in vitro exposure to 1–beta–D arabinofuranosylcytosine and deoxycytidine on the survival of normal (CFU–GM) and leukemic (L–CFU) human myeloid progenitor cells in suspension culture. Grant S, et al. **Exp Hematol** 1990 Jan;18(1):41–8
Cytosine arabinoside kills postmitotic neurons in a fashion resembling trophic factor deprivation: evidence that a deoxycytidine–dependent process may be required for nerve growth factor signal transduction. Martin DP, et al. **J Neurosci** 1990 Jan;10(1):184–93

RADIATION EFFECTS

Identification of the two cis–syn [2 + 2] cycloadducts resulting from the photoreaction of 3–carbethoxypsoralen with 2'–deoxycytidine and 2'–deoxyuridine. Voituriez L, et al. **Int J Radiat Biol** 1990 May;57(5):903–18

DEOXYCYTIDINE KINASE see under **PHOSPHOTRANSFERASES, ATP**

DEOXYCYTIDINE MONOPHOSPHATE see under **DEOXYCYTOSINE NUCLEOTIDES**

DEOXYCYTIDINE PHOSPHATES see **DEOXYCYTOSINE NUCLEOTIDES**

DEOXYCYTIDYLATE DEAMINASE see under **NUCLEOTIDE DEAMINASES**

DEOXYCYTOSINE NUCLEOTIDES

Crystal and molecular structure of the sodium salt of the dinucleotide duplex d(CpG). Coll M, et al. **J Biomol Struct Dyn** 1987 Apr;4(5):797–811
A conformational analysis of the (+) anti BPDE adduct to the guanine amino group of dCpdG. Hingerty B, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):905–12
Networks of water molecules in a proflavine deoxydinucleoside phosphate complex. Kim KS, et al. **J Biomol Struct Dyn** 1983 Oct;1(1):263–85
Monte Carlo studies on water in the dCpG/proflavin crystal hydrate. Mezei M, et al. **J Biomol Struct Dyn** 1983 Oct; 1(1):287–97
Visualization of drug–nucleic acid interactions at atomic resolution. X. Structure of a N,N–dimethylproflavine: deoxycytidylyl(3'–5')deoxyguanosine crystalline complex. Sakore TD, et al. **J Biomol Struct Dyn** 1984 Mar; 1(5):1219–27

ADMINISTRATION & DOSAGE

Inhibition of HIV–1 in monocyte/macrophage cultures by 2',3'–dideoxycytidine–5'–triphosphate, free and in liposomes. Szebeni J, et al. **AIDS Res Hum Retroviruses** 1990 May;6(5):691–702

ANALYSIS

Effects of 3'–azido–3'–deoxythymidine on the deoxynucleoside triphosphate pools of cultured human cells. Frick LW, et al. **Adv Exp Med Biol** 1989;253B:389–94
Relationship between intracellular dCTP/ara–CTP ratio and cytotoxic effect of ara–C. Kawasaki H, et al. **Adv Exp Med Biol** 1989;253B:369–74

METABOLISM

Direct photoaffinity–labelling of human deoxycytidine kinase with the feedback inhibitor dCTP. Jansson O, et al. **Biochem J** 1990 Jul 1;269(1):201–5
Modulation of deoxynucleotide metabolism by the deoxycytidylate deaminase inhibitor 3,4,5,6–tetrahydrodeoxyuridine. Heinemann V, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4115–21
Elevation of dCTP pools in xeroderma pigmentosum variant human fibroblasts alters the effects of DNA repair arrest by arabinofuranosyl cytosine. Dunn WC, et al. **Cell Biol Toxicol** 1985 Jan;1(2):75–86

Effect of 3'flanking neighbors on kinetics of pairing of dCTP or dTTP opposite O6-methylguanine in a defined primed oligonucleotide when Escherichia coli DNA polymerase I is used. Singer B, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8271-4

[Inclusion of biotinylated analogs of dUTP and dCTP in DNA by DNA-polymerases. Cloning DNA fragments, containing biotinylated deoxyribouridine in E. coli] Oshevskii SI, et al. **Bioorg Khim** 1989 Aug;15(8):1091-9 (Eng. Abstr.) **(Rus)**

DEOXYDINUCLEOSIDE PHOSPHATES see **DINUCLEOSIDE PHOSPHATES**

DEOXYEPHEDRINE see **METHAMPHETAMINE**

DEOXYEPINEPHRINE see under **DOPAMINE**

DEOXYGALACTOSE see **FUCOSE**

DEOXYGLUCOSE see under **DEOXY SUGARS**

DEOXYGUANINE NUCLEOTIDES

32P-postlabelling of 7-methyl-dGMP ring-opened 7-methyl-dGMP and platinated dGpdG. Hemminki K, et al. **Chem Biol Interact** 1990;74(1-2):45-54

Alkylation of DNA by melphalan in relation to immunoassay of melphalan-DNA adducts: characterization of mono-alkylated and cross-linked products from reaction of melphalan with dGMP and GMP. Tilby MJ, et al. **Chem Biol Interact** 1990;73(2-3):183-94

Conformation and configuration at the central amine nitrogen of a nucleotide adduct of the carcinogen 2-(acetylamino)fluorene as studied by 13C and 15N NMR spectroscopy. Evans FE, et al. **J Biomol Struct Dyn** 1986 Apr;3(5):923-34

1H NMR study of self-association and restricted internal rotation of the C8-substituted deoxyguanosine 5'-monophosphate adduct of the carcinogen 2-(acetylamino)fluorene. Evans FE, et al. **J Biomol Struct Dyn** 1986 Apr;3(5):935-48

ANALYSIS

Effects of 3'-azido-3'-deoxythymidine on the deoxynucleoside triphosphate pools of cultured human cells. Frick LW, et al. **Adv Exp Med Biol** 1989;253B:389-94

CHEMICAL SYNTHESIS

Synthesis and stability of 2'-deoxyguanosine 3'-monophosphate adducts of dimethyl sulfate, ethylene oxide and styrene oxide. Hemminki K, et al. **Chem Biol Interact** 1990;75(3):281-92

METABOLISM

32P-postlabelling of 2-hydroxyethylated, ethylated and methylated adducts of 2'-deoxyguanosine 3'-monophosphate. Koivisto P, et al. **Carcinogenesis** 1990 Aug;11(8):1389-92

Chromatographic and spectrophotometric characterization of adducts formed during the reaction of trans,trans-muconaldehyde with 14C-deoxyguanosine 5'-phosphate. Latriano L, et al. **Environ Health Perspect** 1989 Jul;82:249-51

Herpes simplex virus type 1 and human DNA polymerase interactions with 2'-deoxyguanosine 5'-triphosphate analogues. Kinetics of incorporation into DNA and induction of inhibition. Reardon JE. **J Biol Chem** 1989 Nov 15;264(32):19039-44

Mechanisms of deoxyguanosine lymphotoxicity. Human thymocytes, but not peripheral blood lymphocytes accumulate deoxy-GTP in conditions simulating purine nucleoside phosphorylase deficiency. Fairbanks LD, et al. **J Immunol** 1990 Jan 15;144(2):485-91

PHARMACOLOGY

Mechanisms of 2'-deoxyguanosine toxicity in mouse T-lymphoma cells with purine nucleoside phosphorylase deficiency and resistance to inhibition of ribonucleotide reductase by dGTP. Duan DS, et al. **Biochem J** 1990 Jun 15;268(3):725-31

Does butylphenyl-deoxyguanosine triphosphate differentially inhibit DNA polymerase alpha and delta activities in permeabilized HeLa cells? Jackson DA. **Nucleic Acids Res** 1990 Feb 25;18(4):753-8

Aphidicolin-resistant DNA polymerase of bacteriophage phi 29 APHr71 mutant is hypersensitive to phosphonoacetic acid and butylphenyldeoxyguanosine 5'-triphosphate. Matsumoto K, et al. **Virology** 1990 Sep;178(1):337-9

DEOXYGUANOSINE

NMR and computational characterization of mitomycin cross-linked to adjacent deoxyguanosines in the minor groove of the d(T-A-C-G-T-A).d(T-A-C-G-T-A) duplex. Norman D, et al. **Biochemistry** 1990 Mar 20; 29(11):2861-75

Characterization of the reaction products of deoxyguanosine with the anticancer agent BFNU and BFNU-1,1,1',1'-d4 in different buffers by high-performance liquid chromatography/atmospheric pressure ionization tandem mass spectrometry. Ikonomou MG, et al. **Biomed Environ Mass Spectrom** 1990 Jul;19(7):434-46

Enhancement of hydroxylation and deglycosylation of 2'-deoxyguanosine by carcinogenic nickel compounds. Kasprzak KS, et al. **Cancer Res** 1989 Nov 1;49(21):5964-8

DNA polymerase action on bulky deoxyguanosine and deoxyadenosine adducts. Reardon DB, et al. **Carcinogenesis** 1990 Jan;11(1):165-8

The influence of N-7 platination and methylation on the stability of deoxyguanosine and deoxyguanylyl-(3'-5')-deoxyguanosine. Försti A, et al. **Chem Biol Interact** 1990;74(3):253-61

ANALOGS & DERIVATIVES

Specific inhibitors of herpes simplex virus thymidine kinase diminish reactivation of latent virus from explanted murine ganglia. Leib DA, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1285-6

NMR studies of an exocyclic 1,N2-propanodeoxyguanosine adduct (X) located opposite deoxyadenosine (A) in DNA duplexes at basic pH: simultaneous partial intercalation of X and A between stacked bases. Kouchakdjian M, et al. **Biochemistry** 1990 May 8;29(18):4456-65

Relationship between hepatic peroxisome proliferation and 8-hydroxydeoxyguanosine formation in liver DNA of rats following long-term exposure to three peroxisome proliferators; di(2-ethylhexyl) phthalate, aluminium clofibrate and simfibrate. Takagi A, et al. **Cancer Lett** 1990 Aug;53(1):33-8

Formation of 8-hydroxydeoxyguanosine (8-OH-dG) in rat kidney DNA after intraperitoneal administration of ferric nitrilotriacetate (Fe-NTA). Umemura T, et al. **Carcinogenesis** 1990 Feb;11(2):345-7

The fluorescence emission properties of dGuo-C8-AAF, dGuo-C8-AF and the imidazole ring-opened products of dGuo-C8-AF indicate a different dynamic structure for the various compounds. van Houte LP, et al. **Carcinogenesis** 1990 Apr;11(4):701-4

Cigarette smoke-induced DNA-damage: role of hydroquinone and catechol in the formation of the oxidative DNA-adduct, 8-hydroxydeoxyguanosine. Leanderson P, et al. **Chem Biol Interact** 1990;75(1):71-81

The development of a sensitive analysis for 8-hydroxy-2'-deoxyguanosine. Floyd RA. **Free Radic Res Commun** 1990;8(3):139-41

Crystal and molecular structure of the sodium salt of the dinucleotide duplex d(CpG). Coll M, et al. **J Biomol Struct Dyn** 1987 Apr;4(5):797-811

A conformational analysis of the (+) anti BPDE adduct to the guanine amino group of dCpdG. Hingerty B, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):905-12

Networks of water molecules in a proflavine deoxydinucleoside phosphate complex. Kim KS, et al. **J Biomol Struct Dyn** 1983 Oct;1(1):263-85

Monte Carlo studies on water in the dCpG/proflavin crystal hydrate. Mezei M, et al. **J Biomol Struct Dyn** 1983 Oct; 1(1):287-97

Visualization of drug-nucleic acid interactions at atomic resolution. X. Structure of a N,N-dimethylproflavine: deoxycytidylyl(3'-5')deoxyguanosine crystalline complex. Sakore TD, et al. **J Biomol Struct Dyn** 1984 Mar; 1(5):1219-27

Significant increase of 8-hydroxydeoxyguanosine in liver DNA of rats following short-term exposure to the peroxisome proliferators di(2-ethylhexyl)phthalate and di(2-ethylhexyl)adipate. Takagi A, et al. **Jpn J Cancer Res** 1990 Mar;81(3):213-5

Inhibition of repair of O6-methyldeoxyguanosine and enhanced mutagenesis in rat-liver epithelial cells. Alvi NK, et al. **Mutat Res** 1990 Jun;230(2):219-26

Chemical synthesis and spontaneous glycosidic hydrolysis of 3-methyl-2'-deoxyguanosine and 2'-deoxywyosine [1] Golankiewicz B, et al. **Nucleic Acids Res** 1990 Aug 25; 18(16):4779-82

Conformational aspects of antiviral activity of deoxyguanosine acyclic analogues. Golbraikh AA, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7965-77

Methylene blue plus light mediates 8-hydroxy 2'-deoxyguanosine formation in DNA preferentially over strand breakage. Schneider JE, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):631-5

Oxidative damage to DNA during aging: 8-hydroxy-2'-deoxyguanosine in rat organ DNA and urine. Fraga CG, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4533-7

Urinary 8-hydroxy-2'-deoxyguanosine as a biological marker of in vivo oxidative DNA damage. Shigenaga MK, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9697-701

ANALYSIS

Measurement of deoxyguanosine/thymidine ratios in complex mixtures by high-performance liquid chromatography for determination of the mole percentage guanine + cytosine of DNA. Mesbah M, et al. **J Chromatogr** 1989 Oct 6; 479(2):297-306

METABOLISM

Deoxy GTP accumulates in thymocytes, but not in T or B lymphocytes in simulated PNP deficiency. Taddeo A, et al. **Adv Exp Med Biol** 1989;253B:275-80

Synthesis and characterization of deoxyguanosine-benzoquinone adducts. Jowa L, et al. **J Appl Toxicol** 1990 Feb;10(1):47-54

Purine deoxynucleoside salvage in Giardia lamblia. Baum KF, et al. **J Biol Chem** 1989 Dec 15;264(35):21087-90

PHARMACOLOGY

The mechanism of deoxyguanosine mediated toxicity in proliferating human peripheral blood T lymphocytes. Scharenberg JG, et al. **Adv Exp Med Biol** 1989;253B:281-4

Suppression of deoxyguanosine cytotoxicity and deoxyguanosine kinase activity in mouse FM3A mammary carcinoma cell: mutants defective in hypoxanthine phosphoribosyl-transferase. Hyodo M, et al. **Tokai J Exp Clin Med** 1989 Mar;14(1):5-14

TOXICITY

Mechanisms of 2'-deoxyguanosine toxicity in mouse T-lymphoma cells with purine nucleoside phosphorylase deficiency and resistance to inhibition of ribonucleotide reductase by dGTP. Duan DS, et al. **Biochem J** 1990 Jun 15;268(3):725-31

Mechanisms of deoxyguanosine lymphotoxicity. Human thymocytes, but not peripheral blood lymphocytes accumulate deoxy-GTP in conditions simulating purine nucleoside phosphorylase deficiency. Fairbanks LD, et al. **J Immunol** 1990 Jan 15;144(2):485-91

DEOXYGUANOSINE PHOSPHATES see **DEOXYGUANINE NUCLEOTIDES**

DEOXYMANNOSE see **RHAMNOSE**

DEOXYRIBONUCLEASE BAMHI

A Bam H1 RFLP in the human alpha 2 (X1) (COL 11A2) gene. Priestley LM, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):689

[Phylogenetic relations of closely related species of Mustelidae. Interspecies variability of localization of restriction sites of BamHI-repeats] Lushnikova TP, et al. **Genetika** 1989 Jun;25(6):1089-94 (Eng. Abstr.) **(Rus)**

[Genome organization and primary structure of the BamHI fragment of highly repetitive DNA from Hordeum vulgare] Salina EA, et al. **Mol Biol (Mosk)** 1990 May-Jun; 24(3):729-35 (Eng. Abstr.) **(Rus)**

GENETICS

Bam HI restriction fragment length polymorphisms for hypoxanthine-guanine phosphoribosyltransferase (HPRT) gene of carriers and controls of HPRT deficiency in Japan. Igarashi T, et al. **Acta Paediatr Jpn Overseas Ed** 1990 Feb; 32(1):12-5

METABOLISM

A new isoschizomer, BnaI, of the BamHI restriction endonuclease. Kim EL, et al. **Gene** 1989 Aug 15;80(2):363-8

The time-resolved kinetics of superhelical DNA cleavage by BamHI restriction endonuclease. Hensley P, et al. **J Biol Chem** 1990 Sep 5;265(25):15300-7

DNA structural polymorphism modulates the kinetics of superhelical DNA cleavage by BamHI restriction endonuclease. Nardone G, et al. **J Biol Chem** 1990 Sep 5;265(25):15308-15

DEOXYRIBONUCLEASE BSTFI see **DEOXYRIBONUCLEASE HINDIII**

DEOXYRIBONUCLEASE BSTI see **DEOXYRIBONUCLEASE BAMHI**

DEOXYRIBONUCLEASE ECORI

Fluorescence stopped-flow kinetics of the cleavage of synthetic oligodeoxynucleotides by the EcoRI restriction endonuclease. Alves J, et al. **Biochemistry** 1989 Sep 19; 28(19):7879-88

Solution structure of the EcoRI DNA sequence: refinement of NMR-derived distance geometry structures by NOESY spectrum back-calculations. Nerdal W, et al. **Biochemistry** 1989 Dec 26;28(26):10008-21

Structure and dynamics of a fluorescent DNA oligomer containing the EcoRI recognition sequence: fluorescence, molecular dynamics, and NMR studies. Nordlund TM, et al. **Biochemistry** 1989 Nov 14;28(23):9095-103

Two-fold symmetry of crystalline DNA-EcoRI endonuclease recognition complexes. Grable J, et al. **J Biomol Struct Dyn** 1984 Mar;1(5):1149-60

Refinement of Eco RI endonuclease crystal structure: a revised protein chain tracing. Kim YC, et al. **Science** 1990 Sep 14;249(4974):1307-9

ANTAGONISTS & INHIBITORS

Site-specific inhibition of EcoRI restriction/modification enzymes by a DNA triple helix. Hanvey JC, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):157-61

GENETICS

Phage Trojan horses: a conditional expression system for lethal genes. Heitman J, et al. **Gene** 1989 Dec 21;85(1):193-7

Probing the function of individual amino acid residues in

the DNA binding site of the EcoRI restriction endonuclease by analysing the toxicity of genetically engineered mutants. Oelgeschläger T, et al. **Gene** 1990 Apr 30;89(1):19–27

Comparison of the nucleotide and amino acid sequences of the RsrI and EcoRI restriction endonucleases. Stephenson FH, et al. **Gene** 1989 Dec 21;85(1):1–13

Increased sensitivity to killing by restriction enzymes in the XR-1 DNA double-strand break repair-deficient mutant. Giaccia AJ, et al. **Mutat Res** 1990 Jul;236(1):67–76

Purification, cloning and sequence analysis of RsrI DNA methyltransferase: lack of homology between two enzymes, RsrI and EcoRI, that methylate the same nucleotide in identical recognition sequences. Kaszubska W, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10403–25

[Tissue-specific blocking of the EcoRI site adjacent to the pseudogene for mouse oncoprotein p53] Ninkina NN, et al. **Mol Gen Mikrobiol Virusol** 1990 Apr;(4):17–8 (Eng. Abstr.) **(Rus)**

METABOLISM

Reversible inhibition of EcoRI with elevated pressure. Macgregor RB Jr. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):775–8

Accuracy of the EcoRI restriction endonuclease: binding and cleavage studies with oligodeoxynucleotide substrates containing degenerate recognition sequences. Thielking V, et al. **Biochemistry** 1990 May 15;29(19):4682–91

A human alphoid DNA clone from the EcoRI dimeric family: genomic and internal organization and chromosomal assignment. Baldini A, et al. **Genomics** 1989 Nov;5(4):822–8

Heparin inhibits EcoRI endonuclease cleavage of DNA at certain EcoRI sites. Chen JZ, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3255–60

Perturbation of DNA hairpins containing the EcoRI recognition site by hairpin loops of varying size and composition: physical (NMR and UV) and enzymatic (EcoRI) studies. Germann MW, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1489–98

High resolution footprinting of EcoRI and distamycin with Rh(phi)2(bpy)3+, a new photofootprinting reagent. Uchida K, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10259–79

Substrate recognition by the EcoRI endonuclease. Heitman J, et al. **Proteins** 1990;7(2):185–97

DEOXYRIBONUCLEASE ECOVIII see **DEOXYRIBONUCLEASE HINDIII**

DEOXYRIBONUCLEASE HINDIII

An additional HindIII polymorphism at the coagulation factor XIIIA locus. Iodice C, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):693

ANALYSIS

[Detection of hemophilia A carriers by testing polymorphic Bcl I and HINDIII sites using the PCR method with internal splitting control] Surin VL, et al. **Gematol Transfuziol** 1990 Mar;35(3):3–6 (Eng. Abstr.) **(Rus)**

GENETICS

Restriction fragment length polymorphism (RFLP) at the DNF15S2 locus in three ethnic groups of Singapore. Saha N, et al. **Hum Hered** 1990;40(4):250–2

METABOLISM

Restriction enzymes have limited access to DNA sequences in Drosophila chromosomes. Jack RS, et al. **EMBO J** 1990 Aug;9(8):2603–9

DEOXYRIBONUCLEASE I

A streamlined, low ionic strength DNase I footprinting reaction. Hudson JM, et al. **Biotechniques** 1989 Sep; 7(8):812–5

Gel electrophoresis of native actin and the actin-deoxyribonuclease I complex. Edgar AJ. **Electrophoresis** 1989 Oct;10(10):722–5

The beta-globin dominant control region: hypersensitive site 2. Philipsen S, et al. **EMBO J** 1990 Jul;9(7):2159–67

Interaction of muscle and non-muscle tropomyosins with deoxyribonuclease I. Clark ID, et al. **Eur J Biochem** 1989 Oct 20;185(1):105–9

Structural alteration from non-B to B-form could reflect DNase I hypersensitivity. Ramesh N, et al. **J Biomol Struct Dyn** 1989 Apr;6(5):899–906

Sequence-dependent structural variations of DNA revealed by DNase I. Brukner I, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):891–4

ANTAGONISTS & INHIBITORS

Inhibition of the interactions of cofilin, destrin, and deoxyribonuclease I with actin by phosphoinositides. Yonezawa N, et al. **J Biol Chem** 1990 May 25; 265(15):8382–6

BLOOD

Predictive value of serum alkaline DNase activity variations in treatment of head and neck cancer. Economidou-Karaoglou A, et al. **Acta Oncol** 1990; 29(2):163–6

Deoxyribonuclease I serum activity in pancreatic cancer. Basso D, et al. **Bull Cancer (Paris)** 1990;77(4):385–7

Serum deoxyribonuclease I determined by a radioimmunoassay and an enzymatic assay in malignant diseases. Miyauchi K, et al. **Clin Chim Acta** 1989 Sep 15; 184(1):115–9

GENETICS

Human serum deoxyribonuclease I (DNase I) polymorphism: pattern similarities among isozymes from serum, urine, kidney, liver, and pancreas. Kishi K, et al. **Am J Hum Genet** 1990 Jul;47(1):121–6

Genetic analysis of human deoxyribonuclease I by immunoblotting and the zymogram method following isoelectric focusing. Yasuda T, et al. **Anal Biochem** 1989 Nov 15;183(1):84–8

New genetic markers detected in human urine: DNase I, RNase 1, and 43-kDa glycoprotein. Kishi K, et al. **Prog Clin Biol Res** 1990;344:891–913

[DNaseI sensitivity and DNaseI hypersensitive sites of AFP gene correlated with the gene expression] Lin XH, et al. **Shih Yen Sheng Wu Hsueh Pao** 1989 Jun;22(2):205–11 (Eng. Abstr.) **(Chi)**

ISOLATION & PURIFICATION

Small-scale preparation of RNase-free DNase. Smith OP. **Biotechniques** 1988 Oct;6(9):846–7

METABOLISM

Digestion of chromatin DNA with DNAse I in situ: effect of ethanol fixation. Bottone MG, et al. **Basic Appl Histochem** 1989;33(4):347–50

Bovine pancreatic DNase I binds very tightly to DNA fragments and may be mistaken for putative endogenous nuclear proteins covalently bound to DNA. Brotherton TW, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):443–8

DNase I susceptibility of bent DNA and its alteration by ditercalinium and distamycin. Mendoza R, et al. **Biochemistry** 1990 May 29;29(21):5035–43

Altered regulation of MHC class I genes in different tumor cell lines is reflected by distinct sets of DNase I hypersensitive sites. Maschek U, et al. **EMBO J** 1989 Aug; 8(8):2297–304

Three-dimensional distribution of DNase I-sensitive chromatin regions in interphase nuclei of embryonal carcinoma cells. de Graaf A, et al. **Eur J Cell Biol** 1990 Jun;52(1):135–41

Human gamma- to beta-globin gene switching in transgenic mice. Behringer RR, et al. **Genes Dev** 1990 Mar;4(3):380–9

The limits of the DNase I-sensitive domain of the human apolipoprotein B gene coincide with the locations of chromosomal anchorage loops and define the 5' and 3' boundaries of the gene. Levy-Wilson B, et al. **J Biol Chem** 1989 Dec 15;264(35):21196–204

DNase I cleavage of branched DNA molecules. Lu M, et al. **J Biol Chem** 1989 Dec 15;264(35):20851–4

Cleavage specificity of bacteriophage T4 endonuclease VII and bacteriophage T7 endonuclease I on synthetic branch migratable Holliday junctions. Picksley SM, et al. **J Mol Biol** 1990 Apr 20;212(4):723–35

Transcription of the S gene in transgenic mice is associated with hypomethylation at specific sites and with DNase I sensitivity. Pourcel C, et al. **J Virol** 1990 Feb;64(2):931–5

Erythroid-specific nuclease-hypersensitive sites flanking the human beta-globin domain. Dhar V, et al. **Mol Cell Biol** 1990 Aug;10(8):4324–33

rUBF, an RNA polymerase I transcription factor from rats, produces DNase I footprints identical to those produced by xUBF, its homolog from frogs. Pikaard CS, et al. **Mol Cell Biol** 1990 Jul;10(7):3810–2

Developmental regulation of topoisomerase II sites and DNase I-hypersensitive sites in the chicken beta-globin locus. Reitman M, et al. **Mol Cell Biol** 1990 Jun; 10(6):2774–86

Atomic structure of the actin: DNase I complex [see comments] Kabsch W, et al. **Nature** 1990 Sep 6; 347(6288):37–44 Comment in: Nature 1990 Sep 6;347(6288):21–2.

DNaseI hypersensitive sites 1, 2 and 3 of the human beta-globin dominant control region direct position-independent expression. Fraser P, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3503–8

The tertiary structure of the four-way DNA junction affords protection against DNase I cleavage. Murchie AI, et al. **Nucleic Acids Res** 1990 May 11;18(9):2599–606

Specificity of binding to four-way junctions in DNA by bacteriophage T7 endonuclease I. Parsons CA, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4377–84

DNase I-defined chromatin configuration of the human CD3 gene cluster. Tunnacliffe A. **Nucleic Acids Res** 1990 Feb 11;18(3):459–64

Uptake and deoxyribonuclease I susceptibility of foreign deoxyribonucleic acid by chicken sperm cells. Cook RF, et al. **Poult Sci** 1990 May;69(5):856–9

DNA flexibility variation may dominate DNase I cleavage. Hogan ME, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9273–7

DNase I hypersensitive site maps to the HBV enhancer. Akmal M, et al. **Virology** 1989 Oct;172(2):478–88

PHARMACOLOGY

Nuclease hypersensitivity of the rat cytochrome P450IA1 gene. Foldes RL, et al. **Biochem Pharmacol** 1989 Dec 15; 38(24):4425–8

The DNase I sensitive state of "active" globin gene chromatin resists trypsin treatments which disrupt chromatin higher order structure. Lundell M, et al. **Biochemistry** 1989 Dec 12;28(25):9757–65

Nuclear enzymes, fragile sites, and cancer. Yunis JJ, et al. **J Gerontol** 1989 Nov;44(6):37–44

Deoxyribonuclease I treatment of histones for the detection of anti-histone antibodies in solid-phase immunoassays. Effect of protease contamination in commercial deoxyribonuclease I preparations. Monestier M, et al. **J Immunol Methods** 1990 Mar 9;127(2):289–91

Nuclease sensitivity of estradiol-charged estrogen receptor binding sites in nuclei isolated from normal and neoplastic rat mammary tissues. Klinge CM, et al. **J Steroid Biochem** 1990 Jun;36(1–2):7–14

Disruption of microfilament organization in living nonmuscle cells by microinjection of plasma vitamin D-binding protein or DNase I. Sanger JM, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5474–8

[Modeling, using nucleases, of the effect of radiation on Chinese hamster fibroblasts. On the role of single-stranded DNA breaks, induced by DNAase I, in the initiation of chromosome aberrations] Ganassi EE, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):742–5 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Electroporation of normal human DNA endonucleases into xeroderma pigmentosum cells corrects their DNA repair defect. Tsongalis GJ, et al. **Carcinogenesis** 1990 Mar; 11(3):499–503

THERAPEUTIC USE

Correction of the ultraviolet light induced DNA-repair defect in xeroderma pigmentosum cells by electroporation of a normal human endonuclease. Tsongalis GJ, et al. **Mutat Res** 1990 Jul;244(3):257–63

URINE

[Significance of isoenzymes of urinary DNase I analysis in clinical tests] Kishi K, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:379–81 **(Jpn)**

DEOXYRIBONUCLEASE SSOI see **DEOXYRIBONUCLEASE ECORI**

DEOXYRIBONUCLEASE S1 see **ASPERGILLUS NUCLEASE S1**

DEOXYRIBONUCLEASES

Sequence specificity of the deoxyribonuclease activity of 1,10-phenanthroline-copper ion. Yoon C, et al. **Biochemistry** 1990 Feb 27;29(8):2116–21

Characterization of the deoxyribonuclease activity of diphtheria toxin. Nakamura LT, et al. **J Biol Chem** 1990 Mar 25;265(9):5237–41

SfiI and NotI polymorphisms in Theileria stocks detected by pulsed field gel electrophoresis. Morzaria SP, et al. **Mol Biochem Parasitol** 1990 May;40(2):203–11

ANALYSIS

Simultaneous assay for plasmin and DNase using radiolabeled human fibroblasts on microcarriers. Boswell GS, et al. **Anal Biochem** 1989 Oct;182(1):20–4

Deoxyribonuclease zymography adapted to the precast PhastGel electrophoresis media. Straetkvern KO, et al. **Electrophoresis** 1990 Apr;11(4):347–9

Comparison of exonucleolytic activities of herpes simplex virus type-1 DNA polymerase and DNase. Knopf CW, et al. **Eur J Biochem** 1990 Jul 31;191(2):263–73

A sensitive assay for Staphylococcus aureus nucleases. Kohli JK, et al. **Indian J Biochem Biophys** 1989 Oct;26(5):296–300

Demonstration of the human herpesvirus 6-induced DNA polymerase and DNase. Williams MV, et al. **Virology** 1989 Nov;173(1):223–30

[Media for determining the DNAase of Klebsiella] Martynenko LD, et al. **Lab Delo** 1989;(8):61–2 (Eng. Abstr.) **(Rus)**

[Fecal contamination with nuclease-positive bacteria as one of the indices of intestinal dysbacteriosis] Polikarpov NA, et al. **Lab Delo** 1990;(1):46–8 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Effects of DNase production, plasmid size, and restriction barriers on transformation of Vibrio cholerae by electroporation and osmotic shock. Marcus H, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1–2):149–54

Multiplication in human blood and deoxyribonuclease production by group G streptococci isolated from animals

and humans. Reitmeyer JC, et al. **Microbios** 1990; 61(246):33–7
[Deoxyribonuclease from Corynebacterium diphtheriae: dynamics of synthesis and properties] Iusupova DV, et al. **Vopr Med Khim** 1990 Jan–Feb;36(1):27–31 (Eng. Abstr.) **(Rus)**

BLOOD

Variations in serum alkaline DNase activity: a new means to assess early detection of relapse in patients treated for acute nonlymphoblastic leukemia. Economidou–Karaoglou A, et al. **Blood** 1989 Dec;74(8):2730–2
Serum alkaline DNase activity in normal or nonhospitalised individuals. Avall–Lundqvist E, et al. **Clin Chim Acta** 1989 Oct 31;185(1):35–43
[Lipid peroxidation and lysosomal enzyme activity in patients with acute gastrointestinal hemorrhage of peptic ulcer etiology] Kharaberiush VA, et al. **Klin Khir** 1990;(4):14–6 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

[The use of enzymes for searching for biologically active compounds] Fadeeva NI, et al. **Antibiot Khimioter** 1989 Dec;34(12):891–3 (Eng. Abstr.) **(Rus)**

GENETICS

mus308 mutants of Drosophila exhibit hypersensitivity to DNA cross–linking agents and are defective in a deoxyribonuclease. Boyd JB, et al. **Genetics** 1990 Aug; 125(4):813–9
Genetic and structural characterization of endA. A membrane–bound nuclease required for transformation of Streptococcus pneumoniae. Puyet A, et al. **J Mol Biol** 1990 Jun 20;213(4):727–38
Purification and properties of Epstein–Barr virus DNase expressed in Escherichia coli. Stolzenberg MC, et al. **J Virol** 1990 Jan;64(1):96–104
The characterization of the EBV alkaline deoxyribonuclease cloned and expressed in E. coli. Baylis SA, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7609–22

IMMUNOLOGY

Age–related variations in anti–streptococcal antibody levels. Renneberg J, et al. **Eur J Clin Microbiol Infect Dis** 1989 Sep;8(9):792–5
Antibodies to staphylococcal DNases in sera from different animal species, including humans. Hsie S, et al. **J Clin Microbiol** 1989 Nov;27(11):2444–7
[Clinical significance of anti–deoxyribonuclease B assay] Fujikawa S, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:856–8 **(Jpn)**

ISOLATION & PURIFICATION

Purification of Epstein–Barr virus associated DNase with affinity chromatography of nasopharyngeal carcinoma patient serum. Chiou JF, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1990 Feb;23(1):34–43
Chromatographic purification and characterization of EBV DNase from chemically induced lymphoid cells. Hwang GY, et al. **Virology** 1990 Mar;175(1):313–8

METABOLISM

Nuclease treatment results in high specific purification of Creutzfeldt–Jakob disease infectivity with a density characteristic of nucleic acid–protein complexes. Sklaviadis T, et al. **Arch Virol** 1990;112(3–4):215–28
Magnesium induced activation of endogenous nucleases from isolated yeast nuclei: liberation of chromatin fragments of mono– and oligo– nucleosome size. Bhargava P, et al. **Biochem Int** 1990;20(6):1041–8
Generation of a catalytic sequence–specific hybrid DNase. Corey DR, et al. **Biochemistry** 1989 Oct 17;28(21):8277–86
Substrate properties of 25–nt parallel–stranded linear DNA duplexes. Rippe K, et al. **Biochemistry** 1989 Nov 28; 28(24):9542–9
Development, characterization, and subcellular location of DNAse activity in HL–60 cells and monocytes. Roberts PJ. **Blood** 1990 Feb 15;75(4):976–83
Increased uracil–DNA glycosylase, AP–DNA binding protein and deoxyribonuclease activities in tumor and SV40–transformed cell lines of human origin. Kuhnlein U, et al. **Carcinogenesis** 1990 Jan;11(1):117–21
A conserved 3'——5' exonuclease active site in prokaryotic and eukaryotic DNA polymerases. Bernad A, et al. **Cell** 1989 Oct 6;59(1):219–28
Variation in the deoxyribonuclease activity in synchronously growing and dividing mass cultures of Tetrahymena pyriformis GL. Holm B. **Exp Cell Res** 1966 Jan;41(1):12–9
Nucleases in the autolysis of filamentous fungi. Reyes F, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):67–72
Enhanced deoxyribonuclease activity in human transformed cells and in Bloom's syndrome cells. Mezzina M, et al. **Mol Carcinog** 1989;2(4):179–83
A nuclease–hypersensitive element of the human c–myc promoter interacts with a transcription initiation factor. Postel EH, et al. **Mol Cell Biol** 1989 Nov;9(11):5123–33
P1 nuclease defines a subpopulation of active SV40 chromatin—a new nuclease hypersensitivity assay. Chu Y, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3705–11
Diphtheria toxin and its ADP–ribosyltransferase–defective homologue CRM197 possess deoxyribonuclease activity. Bruce C, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(8):2995–8
Second cytotoxic pathway of diphtheria toxin suggested by nuclease activity. Chang MP, et al. **Science** 1989 Dec 1; 246(4934):1165–8
[Relation between DNA replication and neutral Mn 2+–dependent DNAse activity in chromatin] Vinter VG, et al. **Biokhimiia** 1990 Jan;55(1):109–13 (Eng. Abstr.) **(Rus)**
[Design of new oligonucleotide derivatives resistant to cell nucleases] Gottikh MB, et al. **Bioorg Khim** 1990 Apr; 16(4):514–23 (Eng. Abstr.) **(Rus)**
[The determination of the nature of the interaction of neutral Mn2+–dependent DNAse with DNA by immunoelectron microscopy] Vinter VG, et al. **Tsitologiia** 1990;32(1):94–6 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

[The nuclear desoxyribonuclease (DNAse) spectrum of normal rat thymus cells and after whole–body x–ray irradiation] Selliev AA, et al. **Radiobiologiia** 1990 Jan–Feb; 30(1):20–7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

[Necrolysis in burns using fibrinolysin and deoxyribonuclease] Novák J, et al. **Magy Traumatol Orthop Helyreallito Sebesz** 1990; 33(2):114–8 (Eng. Abstr.) **(Hun)**

DEOXYRIBONUCLEASES, TYPE I SITE–SPECIFIC

GENETICS

Conservation of organization in the specificity polypeptides of two families of type I restriction enzymes. Kannan P, et al. **J Mol Biol** 1989 Oct 5;209(3):335–44

DEOXYRIBONUCLEASES, TYPE II SITE–SPECIFIC

Human carboxypeptidase A identifies a BglII RFLP and maps to 7q31–qter. Stewart EA, et al. **Am J Hum Genet** 1990 Apr;46(4):795–800
Three–dimensional solution structure of a DNA duplex containing the BclI restriction sequence: two–dimensional NMR studies, distance geometry calculations, and refinement by back–calculation of the NOESY spectrum. Banks KM, et al. **Biochemistry** 1989 Aug 22; 28(17):6996–7010
Rapid diagnosis of the phenylketonuria haplotype 2 mutation by DNA amplification and MnlI digestion. Eiken HG, et al. **Clin Chem** 1990 May;36(5):809–10
The apparent specificity of NotI (5'–GCGGCCGC–3') is enhanced by M.FnuDII or M.BepI methyltransferases (5'–mCGCG–3'): cutting bacterial chromosomes into a few large pieces. Qiang BQ, et al. **Gene** 1990 Mar 30;88(1):101–5
Differential action of restriction endonucleases on chromosomes prepared for light and electron microscopy. Gosálvez J, et al. **Genome** 1990 Feb;33(1):155–7
A PstI polymorphism for the human erythrocyte surface protein band 3 (EPB3) demonstrates close linkage of EPB3 to the nerve growth factor receptor. Stewart EA, et al. **Genomics** 1989 Oct;5(3):633–5
A PvuII restriction fragment length polymorphism of the glucose–6–phosphate dehydrogenase gene is an African–specific marker. Fey MF, et al. **Hum Genet** 1990 Apr;84(5):471–2
MspI polymorphic site in intron 22 of the factor VIII gene in the Japanese population. Inaba H, et al. **Hum Genet** 1990 Jan;84(2):214–5
Non–existence of a tight association between a 444leucine to proline mutation and phenotypes of Gaucher disease: high frequency of a NciI polymorphism in the non–neuronopathic form. Masuno M, et al. **Hum Genet** 1990 Jan;84(2):203–6
Attempt to calculate the allele frequency distribution of a TaqI RFLP detected by the highly polymorphic probe YNH24. van Eede PH, et al. **Hum Genet** 1990 Mar; 84(4):376–8
An NcoI restriction fragment length polymorphism at the human steroid sulphatase gene locus. van Zandvoort PM, et al. **Hum Genet** 1990 Apr;84(5):489–90
Hae III—a suitable restriction endonuclease for restriction fragment length polymorphism analysis of biological evidence samples. Budowle B, et al. **J Forensic Sci** 1990 May;35(3):530–6
Unusual helical packing in crystals of DNA bearing a mutation hot spot. Timsit Y, et al. **Nature** 1989 Oct 5; 341(6241):459–62
StuI RFLP in the human ABL locus. Baumann R, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):693
Population differences in an MspI polymorphism of the human alpha 1–antitrypsin (AAT) gene. Kalsheker N, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10518
A Sac I RFLP is detected with the 5–HT1a serotonin receptor probe G21. Khan MA, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):691
Isolation and characterization of a hypervariable region [D4S163] on chromosome 4. Neuweiler J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):691
A BglII polymorphism for pKNB46 [D19S73] Nishikawa K, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):692
MspI RFLP for human MAOA gene. Ozelius L, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10516
A quantitative HpaII–PCR assay to measure methylation of DNA from a small number of cells. Singer–Sam J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):687
An anonymous DNA probe E20 [D4S143] on chromosome 4 detects a TaqI polymorphism. Warnich L, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):690
An XmnI polymorphism detected by a human genomic clone from chromosomal band 11p13 [D11S416] Weil MM, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):689
A BclI RFLP for DXS296 (VK21) near the fragile X. Yu S, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):690
Human chromosome banding with restriction endonucleases HaeIII, HinfI and PstI. Zhang SZ, et al. **Sci China [B]** 1989 Nov;32(11):1350–60

ANALYSIS

Observation of arginyl–deoxyoligonucleotide interactions in Taq I endonuclease by detection of specific 1H NMR signals from 140kD [N eta 1, N eta 2, 15N Arg]Taq I/oligomer complexes. Glushka J, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):88–93
Isolation and characterization of a type II restriction endonuclease from Streptococcus thermophilus. Solaiman DK, et al. **FEMS Microbiol Lett** 1990 Feb;55(3):261–5
Restriction endonucleases in Clostridium pasteurianum ATCC 6013 and C. thermohydrosulfuricum DSM 568. Richards DF, et al. **J Gen Microbiol** 1988 Dec;134 (Pt 12):3151–7
[UV– and CD–spectra of restriction endonuclease EcoRII and DNA–methylase EcoRII] Ven'laminov SIu, et al. **Bioorg Khim** 1990 Jan;16(1):47–51 (Eng. Abstr.) **(Rus)**
[Substrate specificity of restriction endonuclease Kpn378I] Zernov IuP, et al. **Bioorg Khim** 1990 May;16(5):603–4 **(Rus)**

ANTAGONISTS & INHIBITORS

Inhibition of restriction endonuclease cleavage via triple helix formation by homopyrimidine oligonucleotides. François JC, et al. **Biochemistry** 1989 Dec 12;28(25):9617–9
Inhibition of the restriction endonuclease BanII using modified DNA substrates. Determination of phosphate residues critical for the formation of an active enzyme–DNA complex. Olsen DB, et al. **J Biol Chem** 1990 Aug 25;265(24):14389–94

BIOSYNTHESIS

Overproduction and crystallization of FokI restriction endonuclease. Kita K, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8741–53

DIAGNOSTIC USE

Shared SstI RFLPs by HLA–Aw19, A23/24 and A3/11 crossreacting groups. Segurado OG, et al. **Tissue Antigens** 1990 May;35(5):206–10

GENETICS

Nucleotide sequence of the EcoRII restriction endonuclease gene. Kossykh V, et al. **Biochim Biophys Acta** 1989 Dec 22;1009(3):290–2
Expression of cloned restriction and modification genes, hjaIRM from Hyphomonas jannaschiana in Escherichia coli. Danaher RJ, et al. **Gene** 1990 Apr 30;89(1):129–32
Characterization of the genetic determinants of SsoII–restriction endonuclease and modification methyltransferase. Karyagina AS, et al. **Gene** 1990 Mar 1;87(1):113–8
Nucleotide sequence of the FokI restriction–modification system: separate strand–specificity domains in the methyltransferase. Looney MC, et al. **Gene** 1989 Aug 15; 80(2):193–208
Construction of an efficient overproducer clone of HinfI restriction endonuclease using the polymerase chain reaction. Skoglund CM, et al. **Gene** 1990 Mar 30;88(1):1–5
Cloning and characterization of a tandemly repeated DNA sequence in the crane family (Gruidae). Chen ZQ, et al. **Genome** 1989 Aug;32(4):646–54
Cloning and nucleotide sequences of the BanI restriction–modification genes in Bacillus aneurinolyticus. Maekawa Y, et al. **J Biochem (Tokyo)** 1990 Apr; 107(4):645–9
Primary sequence of the EcoRII endonuclease and properties of its fusions with beta–galactosidase. Bhagwat AS, et al. **J Biol Chem** 1990 Jan 15;265(2):767–73
A subunit of yeast site–specific endonuclease SceI is a mitochondrial version of the 70–kDa heat shock protein. Morishima N, et al. **J Biol Chem** 1990 Sep 5; 265(25):15189–97
Asp700I, a novel isoschizomer of XmnI from Achromobacter species 700 recognizing 5'–GAANN/NNTTC–3'. Bolton BJ, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8879
Cloning, characterization and heterologous expression of the SmaI restriction–modification system. Heidmann S, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9783–96
Cloning, nucleotide sequence, and expression of the HincII

restriction-modification system. Ito H, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3903-11

A simple method for screening of NotI linking clones. Kusuda J, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8890

Cloning and nucleotide sequence of the genes coding for the Sau96I restriction and modification enzymes. Szilák L, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4659-64

[Primary structure of the gene of restriction endonuclease EcoRII] Kosykh VG, et al. **Dokl Akad Nauk SSSR** 1989; 308(6):1497-9 (Rus)

[Restriction-modification systems of type II in Shigella strains] Solodukhina Li, et al. **Genetika** 1989 Sep; 25(9):1571-7 (Eng. Abstr.) (Rus)

[The structure of PstI-repeats adjacent to the growth hormone gene and transcription of the family of PstI-repeats in various bovine organs] Akopian KZh, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):775-80 (Eng. Abstr.) (Rus)

[Cloning and regulation of gene expression of EcoRV restriction- modification system] Kravets AN, et al. **Mol Biol (Mosk)** 1990 Mar-Apr;24(2):438-47 (Eng. Abstr.) (Rus)

ISOLATION & PURIFICATION

Restriction endonucleases from microorganisms isolated in Brazil: an isoschizomer of HaeIII from a thermophilic Bacillus sp. Cruz AK, et al. **Braz J Med Biol Res** 1989; 22(11):1321-8

SshAI restriction endonuclease from Salmonella shikmonah. Miyahara M, et al. **FEMS Microbiol Lett** 1990 Jan 1; 54(1-3):245-8

Purification and characterization of the FokI restriction endonuclease. Kaczorowski T, et al. **Gene** 1989 Aug 15; 80(2):209-16

Isolation and identification of restriction endonuclease BshKI. Moissidou A, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8884

Purification and characterization of the in vitro activity of I-Sce I, a novel and highly specific endonuclease encoded by a group I intron. Monteilhet C, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1407-13

Isolation and identification of restriction endonuclease BsiSI. Rina M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1654

Isolation and identification of restriction endonuclease BsiKI [published erratum appears in Nucleic Acids Res 1990 May 11;18(9):2852] Rina M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1655

Isolation and identification of restriction endonuclease BshGI. Scarpelis G, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8883

Isolation and identification of restriction endonuclease BseAI. Thanos D, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8881

Isolation and identification of restriction endonuclease BshFI. Vlatakis G, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8882

[Isolation, purification and properties of restrictase and methylase BstN1 from Bacillus stearothermophilus] Baryshev MM, et al. **Biokhimiia** 1989 Nov;54(11):1894-903 (Eng. Abstr.) (Rus)

[BsiI--a new unusual restriction endonuclease] Degtiarev SKh, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):244-7 (Eng. Abstr.) (Rus)

[Type II SsrI restriction endonuclease from Staphylococcus saprophyticus] Dedkov VS, et al. **Mol Gen Mikrobiol Virusol** 1989 Nov;(11):24-5 (Eng. Abstr.) (Rus)

[A new site-specific endodeoxyribonuclease EcoHI] Glatman LI, et al. **Mol Gen Mikrobiol Virusol** 1990 Mar;(3):32 (Eng. Abstr.) (Rus)

METABOLISM

Solution conformation of d-CTCGAGCTCGAG by two-dimensional NMR: conformational heterogeneity at XhoI cleavage site. Sheth A, et al. **Biochemistry** 1989 Sep 5;28(18):7275-82

Discrimination between DNA sequences by the EcoRV restriction endonuclease. Taylor JD, et al. **Biochemistry** 1989 Jul 25;28(15):6198-207

Restriction endonuclease AfaI from Acidiphilium facilis, a new isoschizomer of RsaI: purification and properties. Dou D, et al. **Biochim Biophys Acta** 1989 Sep 21;1009(1):83-6

Analysis of methylation and distribution of CpG sequences on human active and inactive X chromosomes by in situ nick translation. Prantera G, et al. **Chromosoma** 1990 Apr; 99(1):18-23

Recognition of DNA by type II restriction enzymes. Bennett SP, et al. **Curr Top Cell Regul** 1989;30:57-104 (123 ref.)

McrI: a novel class-II restriction endonuclease from Micrococcus cryophilus recognizing 5'-CGRY/CG-3'. Brensing-Küppers J, et al. **FEBS Lett** 1990 May 21; 264(2):218-22

Characterization of a methyl-specific restriction system in Clostridium acetobutylicum strain N1-4081. Azeddoug H, et al. **FEMS Microbiol Lett** 1989 Dec;53(3):323-6

Isolation of characterization of two sequence-specific endonucleases from the cyanobacterium Synechocystis sp. PCC 6308. Foerg E, et al. **FEMS Microbiol Lett** 1990 May; 57(1-2):105-8

Restriction endonuclease PshAI from Plesiomonas shigelloides with the novel recognition site 5'-GACNN/NNGTC. Miyahara M, et al. **Gene** 1990 Mar 1;87(1):119-22

MamI, a novel class-II restriction endonuclease from Microbacterium ammoniaphilum recognizing 5'-GATNN decreases NNATC-3'. Striebel HM, et al. **Gene** 1990 Jul 2;91(1):95-100

Directional cloning of cDNA using a selectable SfiI cassette. Zelenetz AD, et al. **Gene** 1990 Apr 30;89(1):123-7

Origin of rare Ha-ras alleles: relationship of VTR length to a 5' polymorphic Xho I site. Baxter GD, et al. **Genet Res** 1989 Oct;54(2):149-53

Methylation patterns at the hypervariable X-chromosome locus DXS255 (M27 beta): correlation with X-inactivation status. Boyd Y, et al. **Genomics** 1990 Jun;7(2):182-7

Human chromosome 17 NotI linking clones and their use in long-range restriction mapping of the Miller-Dieker chromosome region (MDCR) in 17p13.3. Ledbetter SA, et al. **Genomics** 1990 Jun;7(2):264-9

The pericentromeric 21 DNA marker pGSM21 (D21S13) contains an expressed HTF island. Stinissen P, et al. **Genomics** 1990 May;7(1):119-22

Heterochromatin heterogeneity in Drosophila chromosomes detected by AluI-banding. Faccio Dolfini S. **Hereditas** 1990;112(2):141-9

Linkage between a PvuII restriction fragment length polymorphism and G6PD A-202A/376G: evidence for a single origin of the common G6PD A- mutation. Beutler E, et al. **Hum Genet** 1990 Jun;85(1):9-11

An informative MspI polymorphism detected at the D21S16 locus. Van Camp G, et al. **Hum Genet** 1990 Jun;85(1):140

The induction of DNA double-strand breaks in CHO cells by Pvu II: kinetics using neutral filter elution (pH 9.6). Costa ND, et al. **Int J Radiat Biol** 1990 May;57(5):933-8

Use of pulsed-field agarose gel electrophoresis to size genomes of Campylobacter species and to construct a SalI map of Campylobacter jejuni UA580. Chang N, et al. **J Bacteriol** 1990 Sep;172(9):5211-7

Effect of 5-bromo- and 5-methyldeoxycytosine on duplex stability and discrimination of the NotI octadeoxynucleotide. Quantitative measurements using thin-layer chromatography. Hoheisel JD, et al. **J Biol Chem** 1990 Sep 25;265(27):16656-60

Restriction isotyping of human apolipoprotein E by gene amplification and cleavage with HhaI. Hixson JE, et al. **J Lipid Res** 1990 Mar;31(3):545-8

In vivo analysis of the Saccharomyces cerevisiae HO nuclease recognition site by site-directed mutagenesis. Nickoloff JA, et al. **Mol Cell Biol** 1990 Mar;10(3):1174-9

KspI, a novel isoschizomer of SacII from Kluyvera species recognizing 5'-CCGC/GG-3'. Bolton BJ, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9476

EclXI, a novel isoschizomer of XmaIII from Enterobacter cloacae 590 recognizing 5'-C/GGCCG-3'. Bolton BJ, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):381

AspI, a novel isoschizomer of Tth111I [corrected] from Achromobacter species 699 recognizing 5'-GACN/NNGTC-3' [published erratum appears in Nucleic Acid Res 1990 Aug 11;18(15):4650] Bolton BJ, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3422

AspHI, a novel isoschizomer of HgiAI from Achromobacter species H recognizing 5'-GWGCW/C-3'. Bolton BJ, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9500

A new, low frequency MspI allele at the D13S3 locus. Chidambaram A, et al. **Nucleic Acids Res** 1990 Mar 11; 18(5):1317

The restriction enzyme EheI (GGC/GCC) is sensitive to CpG methylation. Cooney CA. **Nucleic Acids Res** 1990 Jun 25;18(12):3667

Molecular recognition in the minor groove of the DNA helix. Studies on the synthesis of oligonucleotides and polynucleotides containing 3-deaza-2'-deoxyadenosine. Interaction of the oligonucleotides with the restriction endonuclease EcoRV. Cosstick R, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4771-8

The complete AvrII restriction map of the Escherichia coli genome and comparisons of several laboratory strains. Daniels DL. **Nucleic Acids Res** 1990 May 11;18(9):2649-51

Analysis of substrate specificity of the PaeR7 endonuclease: effect of base methylation on the kinetics of cleavage. Ghosh SS, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5063-8

Methylase-limited partial NotI cleavage for physical mapping of genomic DNA. Hanish J, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3287-91

The sensitivity of DNA cleavage by SnoI to methylation by M.EcoK. Hofer B, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8009

Control of partial digestion combining the enzymes dam methylase and MboI. Hoheisel JD, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9571-82

Identification of a new type II restriction endonuclease, BsaAI. Kong H, et al. **Nucleic Acids Res** 1990 May 11; 18(9):2832

A new type II restriction endonuclease, BsmA I, from Bacillus stearothermophilus. Kong HM, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):686

Digestion conditions resulting in altered cut site specificity for HinfI. Kriss J, et al. **Nucleic Acids Res** 1990 Jun 25; 18(12):3665

The selective inhibitory effect of netropsin on relaxation of sequence specificity of restriction endonuclease SgrAI recognizing the octanucleotide sequence 5'-CR decreases CCGGYG-3'. Laue F, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3421

Restriction endonuclease from thermophilic bacterial species I. Isolation and characterization of BsiEI. Mok YK, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4954

FseI, a new type II restriction endonuclease that recognizes the octanucleotide sequence 5' GGCCGGCC 3'. Nelson JM, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2061-4

Cleavage at the twelve-base-pair sequence 5'-TCTAGATCTAGA-3' using M.XbaI (TCTAGm6A) methylation and DpnI (Gm6A/TC) cleavage. Patel Y, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1603-7

Altered specificity of restriction endonuclease HinfI. Petronzio T, et al. **Nucleic Acids Res** 1990 Jun 25; 18(12):3666

SgrAI, a novel class-II restriction endonuclease from Streptomyces griseus recognizing the octanucleotide sequence 5'-CR/CCGGYG-3' [corrected] [published erratum appears in Nucleic Acids Res 1990 Aug 25;18(16):4991]. Tautz N, et al. **Nucleic Acids Res** 1990 May 25;18(10):3087

SfuI, a novel AsuII isoschizomer from Streptomyces fulvissimus recognizing 5'-TT/CGAA-3'. Veitinger S, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3424

BbrPI, a novel PmacI isoschizomer from Bacillus brevis recognizing 5'-CAC/GTG-3'. Vesely Z, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3423

BmyI, a novel SduI isoschizomer from Bacillus mycoides recognizing 5'-GDGCH/C-3'. Wagner E, et al. **Nucleic Acids Res** 1990 May 25;18(10):3088

Restriction enzyme SnaBI is sensitive to methylation of cytosine within its recognition sequence. Yang Y, et al. **Nucleic Acids Res** 1990 May 25;18(10):3083

DpnA, a methylase for single-strand DNA in the Dpn II restriction system, and its biological function. Cerritelli S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9223-7

DNA and spermidine provide a switch mechanism to regulate the activity of restriction enzyme Nae I. Conrad M, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9707-11

Chromosome aberration induction in Chinese hamster ovary cells by restriction enzymes with different methylation sensitivity. Winegar RA, et al. **Somat Cell Mol Genet** 1990 May;16(3):251-6

[DNA-methylase Sau 3A: isolation and various properties] Lebenka AIu, et al. **Biokhimiia** 1989 Jun;54(6):1009-14 (Eng. Abstr.) (Rus)

[Cleavage by restriction endonucleases MvaI and EcoRII of substrates modified in amino groups of heterocyclic bases] Kubareva EA, et al. **Bioorg Khim** 1990 Apr; 16(4):501-6 (Eng. Abstr.) (Rus)

[Determination of the substrate specificity of Bpu101 restrictase with an unusual recognition segment] Degtiarev SKh, et al. **Mol Biol (Mosk)** 1989 Jul-Aug;23(4):1051-6 (Eng. Abstr.) (Rus)

[Interaction of EcoRII restriction and modification enzymes with synthetic DNA fragments. Determination of the size of EcoRII binding site] Vinogradova MV, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):847-50 (Eng. Abstr.) (Rus)

[The role of divalent cations in DNA endonucleolysis catalyzed by restrictases] Sokolov NN, et al. **Vopr Med Khim** 1989 Nov-Dec;35(6):66-9 (Eng. Abstr.) (Rus)

[The effect of monovalent cations on the activity of site-specific endonuclease PaeII] Sokolov NN, et al. **Vopr Med Khim** 1990 Jan-Feb;36(1):65-7 (Eng. Abstr.) (Rus)

PHARMACOLOGY

Oncogenic transformation of murine C3H 10T1/2 cells resulting from DNA double-strand breaks induced by a restriction endonuclease. Bryant PE, et al. **Br J Cancer** 1989 Dec;60(6):852-4

DEOXYRIBONUCLEASES, TYPE III SITE-SPECIFIC

METABOLISM

Cloning, over-expression and the catalytic properties of the EcoP15 modification methylase from Escherichia coli. Rao DN, et al. **J Mol Biol** 1989 Oct 20;209(4):599-606

DEOXYRIBONUCLEIC ACID see DNA

DEOXYRIBONUCLEOPROTEINS

ANALYSIS

Relative depletion of an arginine-rich deoxyribonucleo-histone component during tumor induction by the Shope papilloma virus. Evans JH, et al. **Exp Mol Pathol** 1967 Aug;7(1):105-15

Small, heat-stable, DNA-binding proteins from Caulobacter crescentus. Paterczyk B, et al. **Microbios** 1990; 61(248-249):135-43

IMMUNOLOGY

Immunogenic DNA-related factors. Nucleosomes spontaneously released from normal murine lymphoid cells stimulate proliferation and immunoglobulin synthesis of normal mouse lymphocytes. Bell DA, et al.

J Clin Invest 1990 May;85(5):1487–96
[Antibodies against deoxyribonucleoproteins in circulating immune complexes in the blood of patients with autoimmune diseases] Matl I, et al. Cas Lek Cesk 1990 May 18;129(20):622–4 (Eng. Abstr.) (Cze)
[Antibodies to DNA and deoxynucleoprotein in Sjögren's disease and syndrome] Nasonova VA, et al. Ter Arkh 1990; 62(1):46–52 (Rus)

ISOLATION & PURIFICATION

Temperate bacteriophages of Streptococcus pneumoniae that contain protein covalently linked to the 5' ends of their DNA. Romero A, et al. J Virol 1990 Oct;64(10):5149–55

METABOLISM

Assembly and self-association of oxytricha telomeric nucleoprotein complexes. Raghuraman MK, et al. Cell 1989 Nov 17;59(4):719–28
Changes in deoxyribonucleoprotein during spermiogenesis in the bull. Gledhill BL, et al. Exp Cell Res 1966 Mar; 41(3):652–65
A novel nucleoprotein complex at a replication origin. Serrano M, et al. Science 1990 May 25;248(4958):1012–6

THERAPEUTIC USE

A clinical study of topical mucopolysaccharides & polydeoxyribonucleoprotein (Foltene) therapy in alopecia. Lee KS, et al. J Korean Med Sci 1987 Sep;2(3):157–65

ULTRASTRUCTURE

Crystallization and preliminary X-ray diffraction studies of the engrailed homeodomain and of an engrailed homeodomain/DNA complex. Liu B, et al. Biochem Biophys Res Commun 1990 Aug 31;171(1):257–9
Visualization of RecA protein and its complexes with DNA by quick-freeze/deep-etch electron microscopy. Heuser J, et al. J Mol Biol 1989 Dec 5;210(3):473–84
The Hin invertasome: protein-mediated joining of distant recombination sites at the enhancer. Heichman KA, et al. Science 1990 Aug 3;249(4968):511–7

DEOXYRIBONUCLEOSIDES

Divalent cations are not required for the stability of the low-salt Z-DNA conformation in poly(dG-ethyl5dC). Vorlícková M, et al. J Biomol Struct Dyn 1989 Oct; 7(2):329–34

ANALYSIS

Differentiation of isomeric 2'-, 3'- and 5'-deoxynucleosides by electron ionization and chemical ionization-linked scanning mass spectrometry. Reimer ML, et al. Biomed Environ Mass Spectrom 1989 Aug;18(8):533–42

CHEMICAL SYNTHESIS

Reinvestigation of deoxyribonucleoside phosphorothioites: synthesis and properties of deoxyribonucleoside-3' dimethyl phosphites. Nagai H, et al. Nucleic Acids Res 1989 Nov 11;17(21):8581–93
Synthesis of 2-deoxy-D-ribofuranosyl 5-amino- and 5-hydroxyaminoimidazole nucleosides by chemical methods and biotransformation. Ewing D, et al. Nucleic Acids Symp Ser 1989;(21):97–8

PHARMACOLOGY

Susceptibility to nucleoside analogues of zidovudine-resistant isolates of human immunodeficiency virus. Richman DD. Am J Med 1990 May 21;88(5B):8S–10S (25 ref.)
Enhancement of fluoropyrimidine inhibition of cell growth by leucovorin and deoxynucleosides in a human squamous cell carcinoma cell line. Chang YM, et al. Cancer Invest 1989;7(6):557–63
Synthesis and antiviral activity of monofluoro and difluoro analogues of pyrimidine deoxyribonucleosides against human immunodeficiency virus (HIV-1). Martin JA, et al. J Med Chem 1990 Aug;33(8):2137–45

THERAPEUTIC USE

[The modification of radiation effect by nucleoside related compounds on a murine tumor given with local radiotherapy and on survival following whole body irradiation] Sougawa M, et al. Nippon Igaku Hoshasen Gakkai Zasshi 1989 Oct 25; 49(10):1298–303 (Eng. Abstr.) (Jpn)

DEOXYRIBONUCLEOTIDES

NMR studies of triple-strand formation from the homopurine-homopyrimidine deoxyribonucleotides d(GA)4 and d(TC)4. Rajagopal P, et al. Biochemistry 1989 Sep 19;28(19):7859–70
Chromatographic conditions for separation of 32P-labeled phosphates of major polynuclear aromatic hydrocarbon—deoxyribonucleoside adducts. Amin S, et al. Carcinogenesis 1989 Oct;10(10):1971–4
Infrared spectral studies of the non regularly alternating purine-pyrimidine hexamers d(m5CGGCM5CG), d(CBr8GGCCBr8G) and d(CGCGGC). Adam S, et al. J Biomol Struct Dyn 1986 Apr;3(5):873–85
Flexibility of 3',5' deoxyribonucleoside diphosphates. Pattabiraman N, et al. J Biomol Struct Dyn 1985 Feb; 2(4):683–92
Conformational characteristics of mixed sugar puckered deoxydinucleoside triphosphate units d-pCpGp and d-pGpCp from energy minimization studies. Ponnuswamy PK, et al. J Biomol Struct Dyn 1989 Feb;6(4):781–800
DNH deoxyribonucleohelicates: self assembly of oligonucleosidic double-helical metal complexes [see comments] Koert U, et al. Nature 1990 Jul 26; 346(6282):339–42 Comment in: Nature 1990 Jul 26;346(6282):314–5.
Deoxynucleotide-containing oligoribonucleotide duplexes: stability and susceptibility to RNase V1 and RNase H. Wyatt JR, et al. Nucleic Acids Res 1989 Oct 11; 17(19):7833–42

ANALYSIS

Enzymatic assay for deoxyribonucleoside triphosphates using synthetic oligonucleotides as template primers. Sherman PA, et al. Anal Biochem 1989 Aug 1;180(2):222–6
Lack of correlation between deoxyribonucleotide pool sizes, spontaneous mutation rates and malignant potential in Chinese hamster ovary cells. Tagger AY, et al. J Cancer Res Clin Oncol 1989;115(5):429–34
Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts. Harmenberg J, et al. J Chromatogr 1990 May 25;508(1):75–9

BIOSYNTHESIS

Effects of cytosine arabinoside and hydroxyurea on the synthesis of deoxyribonucleotides and DNA replication in L1210 cells. Matsumoto M, et al. Adv Enzyme Regul 1990; 30:47–59
Thioredoxin or glutaredoxin in Escherichia coli is essential for sulfate reduction but not for deoxyribonucleotide synthesis. Russel M, et al. J Bacteriol 1990 Apr; 172(4):1923–9

METABOLISM

Deoxyribonucleoside triphosphate pool levels in three cell strains of human chromosome instability syndromes: ataxia telangiectasia (GM2052), Bloom's syndrome (GM1492), and Fanconi's anemia (GM368). Kenne K, et al. Cancer Biochem Biophys 1990 Jan;11(1):69–77
Mutations induced at the hypoxanthine-guanine phosphoribosyltransferase locus of human T-lymphoblasts by perturbations of purine deoxyribonucleoside triphosphate pools. Mattano SS, et al. Cancer Res 1990 Aug 1;50(15):4566–71
Reaction of trans-2-chlorovinylarsine oxide with polydeoxynucleotides. Dill K, et al. Drug Chem Toxicol 1989 Sep-Dec;12(3-4):337–43
Implications for a reduced DNA-elongation rate in polyamine-depleted cells. Oredsson SM, et al. Eur J Biochem 1990 Jul 5;190(3):483–9
DNA synthesis in isolated resting nuclei: evidence for protease-dependent nonreplicative nucleotide incorporation. Jensen TL, et al. Exp Cell Res 1990 Sep; 190(1):85–90
The efficiency of interaction of deoxyribonucleoside-5'-mono-, di- and triphosphates with the active centre of E. coli DNA polymerase I Klenow fragment. Doronin SV, et al. FEBS Lett 1989 Dec 18; 259(1):83–5
Relationship of deoxynucleotide changes to inhibition of DNA synthesis induced by the antiretroviral agent 3'-azido-3'-deoxythymidine and release of its monophosphate by human lymphoid cells (CCRF-CEM). Fridland A, et al. Mol Pharmacol 1990 May;37(5):665–70
Effect of monovalent cation-induced telomeric DNA structure on the binding of Oxytricha telomeric protein. Raghuraman MK, et al. Nucleic Acids Res 1990 Aug 11; 18(15):4543–52
Purification of the E. coli ogt gene product to homogeneity and its rate of action on O6-methylguanine, O6-ethylguanine and O4-methylthymine in dodecadeoxyribonucleotides. Wilkinson MC, et al. Nucleic Acids Res 1989 Nov 11;17(21):8475–84
dNTP imbalance and DNA double strand breaks in mouse FM3A cells and the mechanism of cell death. Wataya Y, et al. Nucleic Acids Symp Ser 1989;(21):11–2

PHARMACOLOGY

Synthesis and antiviral activity evaluation of 3'-fluoro-3'-deoxyribonucleosides: broad-spectrum antiviral activity of 3'-fluoro-3'-deoxyadenosine. Van Aerschot A, et al. Antiviral Res 1989 Oct;12(3):133–50

DEOXYRIBOSE

Effect of 5-aminosalicylic acid on ferrous sulfate-mediated damage to deoxyribose. Grisham MB. Biochem Pharmacol 1990 Jun 15;39(12):2060–3
Determination of the DNA sugar pucker using 13C NMR spectroscopy. Santos RA, et al. Biochemistry 1989 Nov 28;28(24):9372–8
Deoxyribose conformation in [d(GTATATAC)]2: evaluation of sugar pucker by simulation of double-quantum-filtered COSY cross-peaks. Schmitz U, et al. Biochemistry 1990 Mar 6;29(9):2357–68
Interaction of adenylic acid with alkaline earth metal ions in the crystalline solid and aqueous solution. Evidence for the sugar C'2-endo/anti, C'3-endo/anti and C'4-exon/anti conformational changes. Tajmir-Riahi HA. Biochim Biophys Acta 1990 Sep 10;1087(1):49–54
Determination of internal dynamics of deoxyriboses in the DNA hexamer d(CGTACG)2 by 1H NMR. Lane AN, et al. Eur Biophys J 1989;17(4):221–32
Conformational characteristics of mixed sugar puckered deoxytetranucleoside triphosphate d-GpCpGpC from energy minimization studies. Anukanth A, et al. J Biomol Struct Dyn 1989 Feb;6(4):801–14
Interpretation of DNA vibration modes: III—The behaviour of the sugar pucker vibration modes as a function of its pseudorotation parameters. Dohy D, et al. J Biomol Struct Dyn 1989 Feb;6(4):741–54
Ab-inito quantum mechanical calculations of NMR chemical shifts in nucleic acids constituents. II. Conformational dependence of the 1H and 13C chemical shifts in the ribose. Giessner-Prettre C. J Biomol Struct Dyn 1985 Aug; 3(1):145–60
Conformational flexibility of the furanose ring in DNA and its dipole moment. Pechenaya VI. J Biomol Struct Dyn 1989 Oct;7(2):381–8
Conformational characteristics of mixed sugar puckered deoxydinucleoside triphosphate units d-pCpGp and d-pGpCp from energy minimization studies. Ponnuswamy PK, et al. J Biomol Struct Dyn 1989 Feb;6(4):781–800
Conformational analysis of the deoxyribofuranose ring in DNA by means of sums of proton-proton coupling constants: a graphical method. Rinkel LJ, et al. J Biomol Struct Dyn 1987 Feb;4(4):621–49
The influence of pH on OH. scavenger inhibition of damage to deoxyribose by Fenton reaction. Tadolini B, et al. Mol Cell Biochem 1990 May 10;94(2):97–104

ANALOGS & DERIVATIVES

The horseradish peroxidase catalysed oxidation of deoxyribose sugars. Flitter WD, et al. Free Radic Res Commun 1990;9(3-6):297–302

METABOLISM

[1'-carbon hydroxylation of deoxyribose as the mechanism of cleavage of poly(dA) by manganese porphyrin combined with potassium monopersulfate] Bernadou J, et al. C R Acad Sci [III] 1989;309(10):409–14 (Eng. Abstr.) (Fre)

PHARMACOLOGY

Inhibition by a free-radical scavenger of ascorbate-induced hemoglobin denaturation in glucose-6-phosphate dehydrogenase deficient erythrocytes [letter] Papandreou PT, et al. Clin Chim Acta 1990 Aug 15;189(2):253–4

DEOXYTHYMIDINE KINASE see THYMIDINE KINASE

DEOXYURACIL NUCLEOTIDES

DNA denaturation for ultrastructural banding and the mechanism underlying the fluorochrome-photolysis-Giemsa technique studied with anti-5-bromodeoxyuridine antibodies. Drouin R, et al. Chromosoma 1989 Sep;98(3):174–80
Nonisotopic labelling of a variable number of tandem repeat probe by nick translation with biotinylated nucleotides. Rose M, et al. Exp Clin Immmunogenet 1990;7(3):200–2
The SO4-.-induced oxidation of 2'-deoxyuridine-5'-phosphate, uridine-5'-phosphate and thymidine-5'-phosphate. An ESR study in aqueous solution. Hildenbrand K. Z Naturforsch [C] 1990 Jan-Feb; 45(1-2):47–58

ANALYSIS

Prediction of 5-fluorouracil cytotoxicity towards the Walker carcinosarcoma using peak integrals of fluoronucleotides measured by MRS in vivo. McSheehy PM, et al. Br J Cancer 1989 Sep;60(3):303–9

CHEMICAL SYNTHESIS

Synthesis and biological properties of novel phosphotriesters: a new approach to the introduction of biologically active nucleotides into cells. Farrow SN, et al. J Med Chem 1990 May;33(5):1400–6
Monophosphoric acid diesters of 7 beta-hydroxycholesterol and of pyrimidine nucleosides as potential antitumor agents: synthesis and preliminary evaluation of antitumor activity. Ji YH, et al. J Med Chem 1990 Aug;33(8):2264–70
Chemically cleavable biotin-labeled nucleotide analogs. Herman TM, et al. Methods Enzymol 1990;184:584–8

ISOLATION & PURIFICATION

Development of a trichloroacetic acid precipitation assay for covalent adducts of thymidylate synthase. Cisneros RJ, et al. Anal Biochem 1990 May 1;186(2):202–8

METABOLISM

Crystal structure of Escherichia coli thymidylate synthase with FdUMP and 10-propargyl-5,8-dideazafolate.

Matthews DA, et al. **Adv Enzyme Regul** 1989;29:47–60

Enzymatic conversion of 5–fluoro–2'–deoxyuridine to 5–fluorouracil or 5–fluoro–2'–deoxyuridine 5'–monophosphate in human tissues. Uchida M, et al. **Anticancer Res** 1990 May–Jun;10(3):779–83

Evidence for acyloxymethyl esters of pyrimidine 5'–deoxyribonucleotides as extracellular sources of active 5'–deoxyribonucleotides in cultured cells. Freed JJ, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3193–8

Improved assays for DNA–polymerizing enzymes by the use of enzymatically synthesized 5–[125I]iodo–2'–deoxyuridine triphosphate, illustrated by direct quantitation of anti–HIV reverse transcriptase antibody and by serum DNA polymerase analyses. Neumüller M, et al. **Biotechnol Appl Biochem** 1990 Feb;12(1):34–56

Crystal structure of Escherichia coli thymidylate synthase containing bound 5–fluoro–2'–deoxyuridylate and 10–propargyl–5,8–dideazafolate. Matthews DA, et al. **J Mol Biol** 1990 Aug 20;214(4):923–36

Stereochemical mechanism of action for thymidylate synthase based on the X–ray structure of the covalent inhibitory ternary complex with 5–fluoro–2'–deoxyuridylate and 5,10–methylenetetrahydrofolate. Matthews DA, et al. **J Mol Biol** 1990 Aug 20;214(4):937–48

Compartmentation of deoxypyrimidine nucleotides for nuclear DNA replication in S phase mammalian cells. Reddy GP. **J Mol Recognit** 1989 Sep;2(2):75–83

[Inclusion of biotinylated analogs of dUTP and dCTP in DNA by DNA–polymerases. Cloning DNA fragments, containing biotinylated deoxyribouridine in E. coli] Oshevskii SI, et al. **Bioorg Khim** 1989 Aug;15(8):1091–9 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Targeted drug delivery: a two–compartment growth inhibition assay demonstrates that fluorodeoxyuridine and fluorodeoxyuridine monophosphate are liposome–independent drugs. Heath TD, et al. **Sel Cancer Ther** 1989 Winter;5(4):179–84

PHARMACOLOGY

Methotrexate 5–aminoallyl–2'–deoxyuridine 5'–monophosphate: a potential bifunctional inhibitor of thymidylate synthase. Stuhmiller LM, et al. **Adv Enzyme Regul** 1989;29:141–57

RADIATION EFFECTS

Auger effects on bromo–deoxyuridine–monophosphate irradiated with monochromatic X–rays around bromine K–absorption edge. Takakura K. **Radiat Environ Biophys** 1989;28(3):177–84

DEOXYURIDINE

ANALOGS & DERIVATIVES

Antiherpes virus activity and effect on deoxyribonucleoside triphosphate pools of (E)–5–(2–bromovinyl)–2'–deoxycytidine in combination with deaminase inhibitors. Aduma PJ, et al. **Antiviral Res** 1990 Mar;13(3):111–25

Modulation of deoxynucleotide metabolism by the deoxycytidylate deaminase inhibitor 3,4,5,6–tetrahydrodeoxyuridine. Heinemann V, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4115–21

5–Hexyl–2'–deoxyuridine blocks the cytotoxic effects of 5–fluorodeoxyuridine or deoxyadenosine in leukemia L1210 cells in culture. Cory JG, et al. **Cancer Res** 1990 Aug 1; 50(15):4552–6

Biotransformation of 5–(2–chloroethyl)–2'–deoxyuridine in male NMRI mice. Szinai I, et al. **Drug Metab Dispos** 1989 Nov–Dec;17(6):683–9

Synthesis and antiviral and cytotoxic activity of iodohydrin and iodomethoxy derivatives of 5–vinyl–2'–deoxyuridines, 2'–fluoro–2'–deoxyuridine, and uridine. Kumar R, et al. **J Med Chem** 1990 Feb;33(2):717–23

Carbocyclic 5–iodo–2'–deoxyuridine (C–IDU) and carbocyclic (E)–5–(2–bromovinyl)–2'–deoxyuridine (C–BVDU) as unique examples of chiral molecules where the two enantiomeric forms are biologically active: interaction of the (+)– and (–)–enantiomers of C–IDU and C–BVDU with the thymidine kinase of herpes simplex virus type 1. Balzarini J, et al. **Mol Pharmacol** 1990 Mar; 37(3):395–401

Role of the incorporation of (E)–5–(2–iodovinyl)–2'–deoxyuridine and its carbocyclic analogue into DNA of herpes simplex virus type 1–infected cells in the antiviral effects of these compounds. Balzarini J, et al. **Mol Pharmacol** 1990 Mar;37(3):402–7

Mechanism of action of 5–(2–chloroethyl)–2'–deoxyuridine, a selective inhibitor of herpes simplex virus replication. De Clercq E, et al. **Mol Pharmacol** 1990 May;37(5):658–64

5–Formyldeoxyuridine: a new type of DNA damage induced by ionizing radiation and its mutagenicity to salmonella strain TA102. Kasai H, et al. **Mutat Res** 1990 Apr; 243(4):249–53

CHEMICAL SYNTHESIS

Synthesis and antiviral and cytotoxic activity of iodohydrin and iodomethoxy derivatives of 5–vinyl–2'–deoxyuridines, 2'–fluoro–2'–deoxyuridine, and uridine. Kumar R, et al. **J Med Chem** 1990 Feb;33(2):717–23

DIAGNOSTIC USE

Evaluation of the deoxyuridine suppression test by using whole blood samples from folic acid–supplemented subjects. Tamura T, et al. **Am J Clin Nutr** 1990 Jan; 51(1):80–6

METABOLISM

Improved assay method of dTMP synthase in rat liver and its application to human lung cancer cells. Hashimoto Y, et al. **Adv Exp Med Biol** 1989;253B:201–7

Comparison of in vitro drug sensitivity by inhibition of tritium release from [5–3H]–2'–deoxyuridine and a clonogenic assay. Aschele C, et al. **Anticancer Res** 1990 May–Jun;10(3):759–64

Compartmentation of deoxypyrimidine nucleotides for nuclear DNA replication in S phase mammalian cells. Reddy GP. **J Mol Recognit** 1989 Sep;2(2):75–83

PHARMACOLOGY

The effects of folate deficiency on thymidylate synthetase activity, deoxyuridine suppression, cell size and doubling time in a cultured human myeloid cell line. Matthews JH, et al. **Eur J Haematol** 1990 Jul;45(1):43–7

The deoxyuridine suppression test in peripheral lymphocytes. Remacha A, et al. **Eur J Haematol** 1990 Mar;44(3):196–200

RADIATION EFFECTS

Identification of the two cis–syn [2 + 2] cycloadducts resulting from the photoreaction of 3–carbethoxypsoralen with 2'–deoxycytidine and 2'–deoxyuridine. Voituriez L, et al. **Int J Radiat Biol** 1990 May;57(5):903–18

DEOXYURIDINE PHOSPHATES see **DEOXYURACIL NUCLEOTIDES**

DEPARTMENT OF HEALTH AND HUMAN SERVICES (U.S.) see **UNITED STATES DEPT. OF HEALTH AND HUMAN SERVICES**

DEPENDENCY (PSYCHOLOGY) see under **PERSONALITY**

DEPENDENT PERSONALITY DISORDER see under **PERSONALITY DISORDERS**

DEPERSOLONE see under **PREDNISOLONE**

DEPERSONALIZATION see **DEPERSONALIZATION DISORDER**

DEPERSONALIZATION DISORDER

DIAGNOSIS

Factors that predict scores on the Dissociative Experiences Scale. Norton GR, et al. **J Clin Psychol** 1990 May; 46(3):273–7

DRUG THERAPY

Treatment of depersonalization with serotonin reuptake blockers. Hollander E, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):200–3

PSYCHOLOGY

Depersonalization and meditation. Castillo RJ. **Psychiatry** 1990 May;53(2):158–68

[Psychopathology of endogenous anesthetic depression] Baranov PA. **Zh Nevropatol Psikhiatr** 1990;90(4):66–71 (Eng. Abstr.) **(Rus)**

DEPILATION see **HAIR REMOVAL**

DEPOLARIZING MUSCLE RELAXANTS see **NEUROMUSCULAR DEPOLARIZING AGENTS**

DEPOT PREPARATIONS see **DELAYED–ACTION PREPARATIONS**

DEPRECIATION see under **ACCOUNTING**

DEPRESSION

Hysteria, depression and the nosological problem of chronic pain. Van Houdenhove B. **Acta Psychiatr Belg** 1988; 88(5–6):419–30 (90 ref.)

Depression. Grainger RD. **Am J Nurs** 1990 May;90(5):13–4

Depression. Underrecognition and undertreatment by psychiatrists and other health care professionals [editorial; comment] Keller MB. **Arch Intern Med** 1990 May; 150(5):946–8 Comment on: Arch Intern Med 1990 May;150(5):1083–8.

The needs of depressed homeless persons: designing appropriate services. Belcher JR, et al. **Community Ment Health J** 1990 Jun;26(3):255–66

Predicting outcome of schizophrenia: significance of symptom profiles and outcome dimensions. Kay SR, et al. **Compr Psychiatry** 1990 Mar–Apr;31(2):91–102

A study of anxiety/depressive symptoms of medical students, house staff, and their spouses/partners. Hendrie HC, et al. **J Nerv Ment Dis** 1990 Mar;178(3):204–7

Psychiatric referrals in two general hospitals. Doongaji DR, et al. **J Postgrad Med** 1989 Jul;35(3):171–7

Cancer and psychosocial traits, continued [letter; comment] **JAMA** 1990 Jan 26;263(4):513–4 Comment on: JAMA 1989 Sep 1;262(9):1191–5.

Age–related changes in sleep in depressed and healthy subjects. A meta–analysis. Knowles JB, et al. **Neuropsychopharmacology** 1990 Aug;3(4):251–9

Inhibition of mouse–killing behavior by S–adenosyl–L–methionine in midbrain raphe–lesioned and olfactory–bulbectomized rats. Yamamoto T, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):395–8

Symptom profiles of biological markers in depression: a multivariate study. Maes M, et al. **Psychoneuroendocrinology** 1990;15(1):29–37

The relation of widows' needs and resources to perceived health and depression. Lowenstein A, et al. **Soc Sci Med** 1989;29(5):659–67

[Children facing their parents' depression] Rault A, et al. **Ann Med Psychol (Paris)** 1989 Mar–Apr;147(2):222–5 (0 ref.) **(Fre)**

[Depression as the first symptom of multiple sclerosis?] Poser S. **Dtsch Med Wochenschr** 1990 May 18;115(20):795 **(Ger)**

[The color of drugs: a preliminary survey] Sebellico A. **Boll Soc Ital Biol Sper** 1989 Jul;65(7):685–7 (Eng. Abstr.) **(Ita)**

[Studies on animal model of depression: review and perspective] Nomura S, et al. **Yakubutsu Seishin Kodo** 1989 Dec;9(4):349–58 (50 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Nocturnal serum thyrotropin (TSH) surge and the TSH response to TSH–releasing hormone: dissociated behavior in untreated depressives. Bartalena L, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):650–5

[Plasma desipramine levels and clinical response in patients with major depression. Results in agreement with a curvilinear relationship (letter)] Bertschy G, et al. **Therapie** 1989 Sep–Oct;44(5):376–7 **(Fre)**

[Stimulated secretion of TSH in patients with depression of mild nature] Custro N, et al. **Minerva Psichiatr** 1990 Apr–Jun;31(2):83–7 (Eng. Abstr.) **(Ita)**

[Free and total tryptophan in the plasma of healthy persons and in patients with depressive disease. Results of a study in 14 patients] Vahida D, et al. **Med Arh** 1983;37(3):125–8 (Eng. Abstr.) **(Scr)**

CEREBROSPINAL FLUID

Associations between cerebrospinal fluid parameters and high degrees of anxiety or depression in United States Air Force personnel infected with human immunodeficiency virus. Praus DJ, et al. **J Nerv Ment Dis** 1990 Jun;178(6):392–5

CHEMICALLY INDUCED

Dilantin toxicity and vegetative depression: a report of two cases. Garrison SJ, et al. **Arch Phys Med Rehabil** 1990 May; 71(6):422–3

Depression associated with diltiazem. Biriell C, et al. **BMJ** 1989 Sep 23;299(6702):796

Is neuroleptic dysphoria a healthy response? Weiden PJ, et al. **Compr Psychiatry** 1989 Nov–Dec;30(6):546–52

Acute depression from isotretinoin. Scheinman PL, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1112–4

Rapid method for estimating the risk of acutely controversial side effects of prescription drugs. Petri H, et al. **J Clin Epidemiol** 1990;43(5):433–9

Depression not associated with cimetidine [comment] [see comments] Antell LA, et al. **Pa Med** 1989 Nov;92(11):26, 28 Comment on: Pa Med 1989 Jul;92(7):32–3. Comment in: Pa Med 1990 Jan;93(1):80.

More on psymetadine [letter; comment] Coulehan JL. **Pa Med** 1990 Jan;93(1):80 Comment on: Pa Med 1989 Nov;92(11):26, 28.

[Actions and side effects of methadone] Jage J. **Dtsch Med Wochenschr** 1990 Apr 6;115(14):552–5 (22 ref.) **(Ger)**

[Parkinsonism, depression and akathisia induced by flunarizine, a calcium entry blockade—report of 31 cases] Kuzuhara S, et al. **Rinsho Shinkeigaku** 1989 Jun;29(6):681–6 (Eng. Abstr.) **(Jpn)**

[Anxiety and depression caused by side effects of drugs] Nijdam S. **Zh Nevropatol Psikhiatr** 1990;90(4):51–3 (Eng. Abstr.) **(Rus)**

[New findings in prolonged treatment with lithium. Unexplainable increase in the number of depressive symptoms] Nilsson A. **Lakartidningen** 1990 May 2; 87(18):1577–80 **(Swe)**

COMPLICATIONS

Maternal psychological stress/depression and low birth weight. Is there a relationship? McAnarney ER, et al. **Am J Dis Child** 1990 Jul;144(7):789–92 (36 ref.)

Coexisting dementia and depression in Parkinson's disease. Sano M, et al. **Arch Neurol** 1989 Dec;46(12):1284–6

Psychiatric aspects of Parkinson's disease [letter; comment] **BMJ** 1989 Aug 5;299(6695):388–9 Comment on: BMJ 1989

Jul 1;299(6690):3–4.
Influence of negative affect on smoking cessation treatment outcome: a pilot study. Rausch JL, et al. **Br J Addict** 1990 Jul;85(7):929–33
Depressive symptomatology in obese adults with type II diabetes. Wing RR, et al. **Diabetes Care** 1990 Feb; 13(2):170–2
Diagnosis and management of psychogenic stridor caused by a conversion disorder. Geist R, et al. **Pediatrics** 1990 Aug;86(2):315–7
"Behavioral despair" test predicts stress ulcer in WKY rats. Paré WP. **Physiol Behav** 1989 Sep;46(3):483–7
Stress ulcer susceptibility and depression in Wistar Kyoto (WKY) rats. Paré WP. **Physiol Behav** 1989 Dec;46(6):993–8
The relationships between neuroticism and depressive symptoms. Fergusson DM, et al.
Soc Psychiatry Psychiatr Epidemiol 1989 Nov;24(6):275–81
[Clinical features of mixed affective states and their place in the dynamics of endogenous affective and schizoaffective psychoses] Sosiukalo OO. **Zh Nevropatol Psikhiatr** 1989; 89(12):59–64 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Screening for depression [editorial; comment] Gallo JJ. **Am Fam Physician** 1990 Mar;41(3):824 Comment on: Am Fam Physician 1990 Mar;41(3):897–904.
Screening for depression: use of patient questionnaires [see comments] Kavan MG, et al. **Am Fam Physician** 1990 Mar; 41(3):897–904 (34 ref.) Comment in: Am Fam Physician 1990 Mar;41(3):824.
Depressive episodes and dysphoria resulting from conjugal bereavement in a prospective community sample. Bruce ML, et al. **Am J Psychiatry** 1990 May;147(5):608–11
Patterns of depressive symptoms in expectant and new parents. Raskin VD, et al. **Am J Psychiatry** 1990 May; 147(5):658–60
Depression in medical outpatients. Underrecognition and misdiagnosis [see comments] Pérez-Stable EJ, et al. **Arch Intern Med** 1990 May;150(5):1083–8 Comment in: Arch Intern Med 1990 May;150(5):946–8.
Psychiatrists and Alzheimer's disease. Cazas A, et al. **Biomed Pharmacother** 1989;43(7):501–4
The factor structure of the General Health Questionnaire (GHQ–30). A reliability study on 6317 community residents [see comments] Huppert FA, et al. **Br J Psychiatry** 1989 Aug;155:178–85 Comment in: Br J Psychiatry 1990 Jan;156:131–2.
Psychosocial effects of continuous oxygen therapy in hypoxaemic chronic obstructive pulmonary disease patients. Lahdensuo A, et al. **Eur Respir J** 1989 Nov; 2(10):977–80
Major depression and the NIMH Diagnostic Interview Schedule: validation in medically ill hospitalized patients. Koenig HG, et al. **Int J Psychiatry Med** 1989;19(2):123–32 (20 ref.)
Reliability, validity, and temporal stability of the geriatric depression scale in hospitalized elderly. Lyons JS, et al. **Int J Psychiatry Med** 1989;19(2):203–9
The Geriatric Depression Scale in Alzheimer's disease [letter; comment] Christensen KJ, et al. **J Am Geriatr Soc** 1990 Jun;38(6):724–5 Comment on: J Am Geriatr Soc 1989 Sep;37(9):856–60.
Validity of the Geriatric Depression Scale [letter; comment] Snowdon J. **J Am Geriatr Soc** 1990 Jun;38(6):722–3 Comment on: J Am Geriatr Soc 1989 Jan;37(1):29–34.
Depressive symptoms by self-report in adolescence: phase I of the development of a questionnaire for depression by self-report. Emslie GJ, et al. **J Child Neurol** 1990 Apr; 5(2):114–21
Evaluation of cognitive impairment in the elderly. Ramsdell JW, et al. **J Gen Intern Med** 1990 Jan–Feb;5(1):55–64 (44 ref.)
The effects of persistent depressive symptoms on hip fracture recovery. Mossey JM, et al. **J Gerontol** 1990 Sep; 45(5):M163–8
Psychometric assessment of depression in an elderly general medical population. Over- or underassessment? Harper RG, et al. **J Nerv Ment Dis** 1990 Feb;178(2):113–9
Effects of language and ethnic status on reliability and validity of the Center for Epidemiologic Studies–Depression Scale with psychiatric patients. Roberts RE, et al. **J Nerv Ment Dis** 1989 Oct; 177(10):581–92
Depressed mood and major depressive disorder in two ethnic groups. Golding JM, et al. **J Psychiatr Res** 1990;24(1):65–82
General practitioners' detection of depression and dementia in elderly patients. Bowers J, et al. **Med J Aust** 1990 Aug 20;153(4):192–6
Dexamethasone suppression test in patients with Parkinson's disease. Kostić VS, et al. **Mov Disord** 1990;5(1):23–6
Depression in children. Dolgan JI. **Pediatr Ann** 1990 Jan; 19(1):45–50 (11 ref.)
Screening for anxiety and depression in an adolescent clinic. Smith MS, et al. **Pediatrics** 1990 Mar;85(3):262–6
Diagnostic instruments differentiating dementia—depression. Kretschmar C, et al. **Prog Clin Biol Res** 1989;317:71–8 (15 ref.)
Depression in primary hypothyroidism masquerading as inadequate or excessive L-thyroxine consumption. Exley A, et al. **Q J Med** 1989 Sep;72(269):867–70
Depressive illness and abnormal sweat electrolytes. A case report. Pelteret RM. **S Afr Med J** 1990 Jan 20;77(2):107–8
[Depressive symptoms in adolescents (1). Prevalence – remedy] Sand EA, et al. **Arch Belg** 1989;47(1–4):29–33 (Eng. Abstr.) **(Fre)**
[Markers of depressive mood in puberty using the Kovacs Children's Depression Inventory] Lobert W.
Z Kinder Jugendpsychiatr 1989 Dec;17(4):194–201 (Eng. Abstr.) **(Ger)**
[Plural diagnosis of senile dementia—special reference to the relationship with depression] Oomori K, et al.
Seishin Shinkeigaku Zasshi 1989;91(10):770–5 **(Jpn)**
[Beck's Depression Inventory (Kielholz modification) as a method for the early detection of depressive disease] Grubač P. **Med Arh** 1989;43(2–3):161–2 **(Ser)**
[Excretion of 24-hour free cortisol in depressive disease—personal experience] Vahida D. **Med Arh** 1983; 37(5–6):51–3 (Eng. Abstr.) **(Ser)**

DRUG THERAPY

Comparison of the side effects of tricyclic and tetracyclic antidepressants in old age depression. Koncevoj VA, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):288–9
Comparison of amitriptyline and maprotiline in old depressed patients. Koncevoj VA, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):117–8
Sulpirid in patients hospitalized in an internal ward. Plevová J, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):269–70
Contribution to the water wheel test for evaluation of antidepressants in mice. Tynková J, et al.
Act Nerv Super (Praha) 1989 Dec;31(4):284–5
Does sodium valproate increase clinical effects of antidepressants? Vinař O, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):103–5
The effect of R-(–)-deprenyl in de novo parkinsonian patients pretreated with levodopa and decarboxylase inhibitor correlated to depression and MHPG, HIAA and HVA levels in the cerebrospinal fluid. Przuntek H, et al.
Acta Neurol Scand Suppl 1989;126:153–6
Winter depression responds to an antidepressant [letter] Dilsaver SC. **Am Fam Physician** 1990 Jul;42(1):41–2
Pilot study on the therapeutic efficacy, clinical safety, and dosage finding of enciprazine in out-patients with anxious and anxious-depressive syndromes. Scheibe G, et al.
Arzneimittelforschung 1990 Jun;40(6):644–6
Hepatic injury caused by mianserin. Otani K, et al. **BMJ** 1989 Aug 19;299(6697):519
Bupropion reintroduced for treatment of depression [news] **Clin Pharm** 1989 Sep;8(9):607–8
Etizolam in the treatment of generalized anxiety disorder associated with depressive symptoms. Pariante F, et al.
Curr Med Res Opin 1989;11(9):543–9
Depression, circadian rhythms and trimipramine. Rüther E. **Drugs** 1989;38 Suppl 1:1–3; discussion 49–50 (11 ref.)
Amitriptyline: linear or nonlinear kinetics in every day practice? Vandel S, et al. **Eur J Clin Pharmacol** 1989; 37(6):595–8
A new 5-HT2 antagonist (ritanserin) in the treatment of chronic headache with depression. A double-blind study vs amitriptyline. Nappi G, et al. **Headache** 1990 Jun; 30(7):439–44
A double-blind comparative study of fluoxetine and dothiepin in the treatment of depression in general practice. Corne SJ, et al. **Int Clin Psychopharmacol** 1989 Jul; 4(3):245–54
A placebo-controlled inpatient comparison of fluvoxamine maleate and imipramine in major depression. Feighner JP, et al. **Int Clin Psychopharmacol** 1989 Jul;4(3):239–44
Treatment of resistant depression. Review on the efficacy of various biological treatments, specifically in major depression resistant to cyclic antidepressants. Nolen WA, et al. **Int Clin Psychopharmacol** 1989 Jul;4(3):217–28 (79 ref.)
Monoamine oxidase inhibitors—new insights into old problems. O'Brien S, et al. **Ir Med J** 1989 Dec;82(4):146–7
Delusional depression responding to clomipramine in Binswanger's disease. Turkington D, et al.
J Nerv Ment Dis 1990 Jul;178(7):459–60
d-Fenfluramine suppresses the increased calorie and carbohydrate intakes and improves the mood of women with premenstrual depression. Brzezinski AA, et al.
Obstet Gynecol 1990 Aug;76(2):296–301
Double-blind study of the therapeutic efficacy and tolerability of amitriptylinoxide in comparison with amitriptyline. Tegeler J, et al. **Pharmacopsychiatry** 1990 Jan;23(1):45–9
[Use of first and second generation antidepressants. A clinical study] Bogetto F, et al. **Minerva Psichiatr** 1990 Apr–Jun; 31(2):77–81 (Eng. Abstr.) **(Ita)**
[A new sustained-release formulation of trazodone for treatment of minor psychopathological depression. A controlled study] Piccione M.
Riv Eur Sci Med Farmacol 1989 Apr;11(2):169–74 (Eng. Abstr.) **(Ita)**
[Effects in animal models of depression of lisuride alone and upon coadministration with antidepressants] Nakamura K, et al. **Nippon Yakurigaku Zasshi** 1989 Jul;94(1):81–9 (Eng. Abstr.) **(Jpn)**
[Difficulties of animal experiments in psychopharmacology. Punctual aspects of antidepressants] Brugger AJ, et al.
Rev Esp Fisiol 1989;45 Suppl:245–54 (34 ref.) (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

[The preliminary investigation of cholinesterase in depression] Huang MS.
Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Aug; 22(4):229–30, 254 (Eng. Abstr.) **(Chi)**

EPIDEMIOLOGY

Risk factors for depressive symptomatology in a drug using population. Buckner JC, et al. **Am J Public Health** 1990 May;80(5):580–5
Prevalence of depressive symptoms in a Japanese occupational setting: a preliminary study. Iwata N, et al. **Am J Public Health** 1989 Nov;79(11):1486–9
Ethnicity and sex as correlates of depression symptoms in a Canadian university sample. Dion KL, et al.
Int J Soc Psychiatry 1990 Spring;36(1):30–41
Depressive symptoms in Swedish adolescents. Larsson B, et al. **J Abnorm Child Psychol** 1990 Feb;18(1):91–103
Nonpsychotic postpartum depression among adolescent mothers. Troutman BR, et al. **J Abnorm Psychol** 1990 Feb; 99(1):69–78
A longitudinal study of depressive symptomatology in young adolescents. Garrison CZ, et al.
J Am Acad Child Adolesc Psychiatry 1990 Jul;29(4):581–5
The emergence of depressive symptoms in late life: the importance of declining health and increasing disability. Kennedy GJ, et al. **J Community Health** 1990 Apr; 15(2):93–104
Prevalence and correlates of depressive symptoms in mothers of young children. Hall LA. **Public Health Nurs** 1990 Jun; 7(2):71–9
[Socioeconomic aspects of depression] Lecomte T.
Ann Med Interne (Paris) 1989;140(8):687–90 **(Fre)**
[Prevalence of depressive symptoms in adolescents and young adults] Sanzo Ollakarizketa JM. **Gac Sanit** 1990 Mar–Apr; 4(17):55–9 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Immigration, stress, and depressive symptoms in a Mexican-American community. Golding JM, et al.
J Nerv Ment Dis 1990 Mar;178(3):161–71

ETIOLOGY

Nervous system manifestations in Sjögren's syndrome. Hietaharju A, et al. **Acta Neurol Scand** 1990 Feb; 81(2):144–52
Toward greater understanding of depression in deaf individuals. Leigh IW, et al. **Am Ann Deaf** 1989 Oct; 134(4):249–54
Perception of illness and depression in chronic renal disease. Sacks CR, et al. **Am J Kidney Dis** 1990 Jan;15(1):31–9
Effect of nutrient intake on premenstrual depression. Wurtman JJ, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1228–34
Psychiatric disorders associated with specific periods in women's lives [letter; comment] **Am J Psychiatry** 1990 Jul; 147(7):957–8 Comment on: Am J Psychiatry 1989 Nov;146(11):1413–22.
Depressed or just sick? [letter; comment] Jenkins RW.
Arch Intern Med 1990 Jun;150(6):1349–50 Comment on: Arch Intern Med 1988 Sep;148(9):1929–36.
Depression and cognitive impairment in Parkinson's disease. Starkstein SE, et al. **Brain** 1989 Oct;112 (Pt 5):1141–53
Individual differences in taste, body weight, and depression in the "helplessness" rat model and in humans. Dess NK, et al. **Brain Res Bull** 1990 May;24(5):669–76
Depression in a pediatric intensive care unit nursing staff. DeMaso DR, et al. **Crit Care Med** 1990 Jun;18(6):669–72
Self-reported illnesses in family members of alcoholics. McGann KP. **Fam Med** 1990 Mar–Apr;22(2):103–6
Clinical and demographic factors associated with high levels of depression symptoms. Williamson HA Jr. **Fam Med** 1989 Nov–Dec;21(6):428–32
The influence of depression, and family and friendship relations, on residents' loneliness in congregate housing. Mullins LC, et al. **Gerontologist** 1990 Jun;30(3):377–84
Depression in obese men. Rothschild M, et al.
Int J Obes 1989;13(4):479–85
Postnatal depression—aetiological factors. O'Neill T, et al. **Ir Med J** 1990 Mar;83(1):17–8
Depression in sleep apnea: a different view [letter] Lee S. **J Clin Psychiatry** 1990 Jul;51(7):309–10
Depression in Parkinson's disease. Starkstein SE, et al.
J Nerv Ment Dis 1990 Jan;178(1):27–31
Major depression and depressive symptomatology among the physically disabled. Assessing the role of chronic stress. Turner RJ, et al. **J Nerv Ment Dis** 1990 Jun;178(6):343–50
Stress, social support, and depressive symptomatology in children with congenital/acquired limb deficiencies. Varni JW, et al. **J Pediatr Psychol** 1989 Dec;14(4):515–30
Depression and myalgic encephalomyelitis [letter] Lynch S, et al. **J R Soc Med** 1990 May;83(5):341
The structure of depression in alcoholic women. Turnbull JE, et al. **J Stud Alcohol** 1990 Mar;51(2):148–55
Depression associated with chronic pain: incidence, characteristics, and long-term outcome. Maruta T.
Keio J Med 1989 Dec;38(4):403–12
Depression in patients with early versus late onset of Parkinson's disease [see comments] Starkstein SE, et al. **Neurology** 1989 Nov;39(11):1441–5 Comment in:

Neurology 1990 Jun;40(6):1008–9.
Social outcome related to cognitive performance and computed tomographic findings after surgery for a ruptured intracranial aneurysm. Vilkki J, et al. **Neurosurgery** 1990 Apr;26(4):579–84; discussion 584–5
Grief in children studied [news] **Ohio Med** 1990 Feb;86(2):94
Sex differences in the relationship of pain patient dysfunction to spouse adjustment. Romano JM, et al. **Pain** 1989 Dec; 39(3):289–95
Sleep apnoea syndrome—a too frequent misdiagnosis [letter] Incalzi RA, et al. **Postgrad Med J** 1989 May;65(763):345
Poverty and depression. Birtchnell J, et al. **Practitioner** 1989 Sep 8;233(1474):1141–6
Restricted diets restrict antidepressant efficacy. Slaiman S. **Practitioner** 1989 Jul 8;233(1472):972, 975
Depression and anxiety in unemployed men. Eales MJ. **Psychol Med** 1988 Nov;18(4):935–45
Psychological distress of families caring for the frail elderly. Kua EH. **Singapore Med J** 1989 Feb;30(1):42–4
Postabortion dysphoria and religion. Tamburrino MB, et al. **South Med J** 1990 Jul;83(7):736–8
Depression and choke in a horse: probable white snakeroot toxicosis. Thompson LJ. **Vet Hum Toxicol** 1989 Aug; 31(4):321–2
[Depressive state complicated with chronic renal failure treated by continuous ambulatory peritoneal dialysis] Liu ZZ. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Jun;22(3):168–70, backcover (Eng. Abstr.) **(Chi)**
[Psychopathologic factors of bronchial asthma] Romano F, et al. **Arch Monaldi Mal Torace** 1988 Jul–Aug;43(4):323–37 (Eng. Abstr.) **(Ita)**
[Early puerperal depression: the puerperal blues] Andreoli C, et al. **Minerva Ginecol** 1989 Apr;41(4):173–6 (Eng. Abstr.) **(Ita)**
[Psychiatric symptom dimensions induced by work stress—an application of redundancy analysis] Suzuki T, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):221–30 (Eng. Abstr.) **(Jpn)**
[Prognostic criteria of depression] Voltsekh VF. **Zh Nevropatol Psikhiatr** 1990;90(4):71–5 (Eng. Abstr.) **(Rus)**
[A biorhythmologic approach to evaluating forced swimming as an experimental model of a "depressive" state] Shchetinin EV, et al. **Zh Vyssh Nerv Deiat** 1989 Sep–Oct; 39(5):958–64 (Eng. Abstr.) **(Rus)**

HISTORY

Delusional depression in 19th century Scotland [letter; comment] Robinson A. **Br J Psychiatry** 1989 Apr;154:573–4 Comment on: Br J Psychiatry 1988 Nov;153:710–1.
[Activities of the International Committee for Prevention and Treatment of Depression] Adams S. **Zh Nevropatol Psikhiatr** 1990;90(4):46–50 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

[Bereavement, depression and immunity] Reichborn-Kjennerud T. **Tidsskr Nor Laegeforen** 1990 Jun 10;110(15):1965–7 (17 ref.) (Eng. Abstr.) **(Nor)**

METABOLISM

Selective hypometabolism in the inferior frontal lobe in depressed patients with Parkinson's disease. Mayberg HS, et al. **Ann Neurol** 1990 Jul;28(1):57–64
Neurochemical correlates of major depression in primary dementia. Zubenko GS, et al. **Arch Neurol** 1990 Feb; 47(2):209–14
1-(3-Trifluoromethylphenyl) piperazine (TFMPP) in the ventral tegmental area reduces the effect of desipramine in the forced swimming test in rats: possible role of serotonin receptors. Cervo L, et al. **Eur J Pharmacol** 1989 Nov 14;171(1):119–25
Studies on leukocyte beta-adrenergic receptors in depression: a critical appraisal. Werstiuk ES, et al. **Life Sci** 1990; 47(2):85–105 (139 ref.)
Neuroendocrine aspects of the serotonergic hypothesis of depression. Van de Kar LD. **Neurosci Biobehav Rev** 1989 Winter;13(4):237–46 (199 ref.)
Effects of serotonergic agonists on neuroendocrine responses of rhesus monkeys and patients with depression and anxiety disorders. Heninger GR, et al. **Psychopharmacol Ser** 1989; 7:94–104 (29 ref.)
[Carbohydrates and depression] Møller SE. **Ugeskr Laeger** 1989 Sep 4;151(36):2250–2 (Eng. Abstr.) **(Dan)**
[Role of prostaglandins in mental disorders] Matsumura H, et al. **Nippon Rinsho** 1990 Jun;48(6):1212–5 **(Jpn)**
[Neurotransmitter mechanisms in stress and their role in the pathogenesis of depression; preclinical tests] Plaźnik A, et al. **Psychiatr Pol** 1989 Jul–Aug;23(4):322–7 (33 ref.) **(Pol)**

NURSING

[Nursing care of the patient with hepatitis B with psychological depression] Cui LL. **Chung Hua Hu Li Tsa Chih** 1989 Jul;24(7):413 **(Chi)**

PATHOLOGY

Fine structural changes in the rat arcuate nucleus by forced running stress. Otani M. **Jpn J Psychiatry Neurol** 1990 Mar; 44(1):99–110
Reduced natural killer cell activity in major depression: neuroendocrine implications. Nerozzi D, et al. **Psychoneuroendocrinology** 1989;14(4):295–301

PHYSIOPATHOLOGY

Genetically based animal model of depression: circadian rhythm of motor activity. Golda V, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):140–2
Amygdala, depression and drug treatment. Fonberg E. **Acta Physiol Hung** 1989;74(2):103–14 (54 ref.)
Depression, anxiety, and temporal lobe epilepsy. Laterality of focus and symptoms. Altshuler LL, et al. **Arch Neurol** 1990 Mar;47(3):284–8
The angry liver, the anxious heart and the melancholy spleen. The phenomenology of perceptions in Chinese culture. Ots T. **Cult Med Psychiatry** 1990 Mar;14(1):21–58
The role of the mesolimbic dopaminergic system in the desipramine effect in the forced swimming test. Cervo L, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):129–33
Magnetoencephalographic studies of migraine. Barkley GL, et al. **Headache** 1990 Jun;30(7):428–34
Study of intestinal transit time in patient with anxiety and depression. Chaudhary HR. **J Assoc Physicians India** 1989 Feb;37(2):156–7
Relief of depression after stroke [comment] Odeh M, et al. **J Fam Pract** 1989 Nov;29(5):471–2 Comment on: J Fam Pract 1989 Feb;28(2):153–5.
Diagnostic and research applications of electroencephalographic sleep studies in depression. Conceptual and methodological issues. Buysse DJ, et al. **J Nerv Ment Dis** 1990 Jul;178(7):405–14 (107 ref.)
The pattern of depressive symptoms varies with progression of Parkinson's disease. Huber SJ, et al. **J Neurol Neurosurg Psychiatry** 1990 Apr;53(4):275–8
Beta-endorphin and components of depression as powerful discriminators between joggers and sedentary middle-aged men. Lobstein DD, et al. **J Psychosom Res** 1989; 33(3):293–305
Distinguishing depression from functional impairment in the medical outcomes study [letter; comment] Jencks SF. **JAMA** 1990 Feb 2;263(5):659–60 Comment on: JAMA 1989 Aug 18;262(7):914–9.
A pretest procedure reliably predicts performance in two animal models of inescapable stress. Drugan RC, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):649–54
Multiple neurochemical and behavioral consequences of stressors: implications for depression. Anisman H, et al. **Pharmacol Ther** 1990;46(1):119–36 (132 ref.)
Mononuclear leukocyte glucocorticoid receptor binding characteristics and down-regulation in major depression. Wassef A, et al. **Psychoneuroendocrinology** 1990;15(1):59–68
[Event-related potentials in depression] Omura F. **Seishin Shinkeigaku Zasshi** 1989;91(7):512–30 **(Jpn)**
[The development of pathological forms of behavior in submissive male C57BL/6J mice during agonistic zoosocial interactions. A possible model of depression?] Kudriavtseva NN, et al. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec; 39(6):1134–41 (Eng. Abstr.) **(Rus)**
[Rhythms and depression] Alonso San Martín C. **An R Acad Nac Med (Madr)** 1989;106(4):605–14 **(Spa)**

PREVENTION & CONTROL

Screening adolescents for depression and parent-teenager conflict in an ambulatory medical setting: a preliminary investigation. Schubiner H, et al. **Pediatrics** 1990 May; 85(5):813–8
[Comparative features of the preventive action of carbamazepine and lithium carbonate in affective and schizoaffective psychoses] Kostiukova EG. **Zh Nevropatol Psikhiatr** 1989;89(12):64–71 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Analysis of subjective complaints of nonpsychotic depressive and borderline patients in a day-time clinic. Bolelouckỳ Z, et al. **Act Nerv Super (Praha)** 1990 Mar;32(1):68–9
Premenstrual changes [letter; comment] Chaturvedi SK, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):206 Comment on: Acta Psychiatr Scand 1989 Apr;79(4):400–5.
The effect of mild to moderate dementia on the Geriatric Depression Scale and on the General Health Questionnaire. O'Riordan TG, et al. **Age Ageing** 1990 Jan;19(1):57–61
Alternative models of the stress buffering hypothesis. Landerman R, et al. **Am J Community Psychol** 1989 Oct; 17(5):625–42
The farm crisis: an analysis of social psychological distress among North Carolina farm operators. Schulman MD, et al. **Am J Community Psychol** 1989 Aug;17(4):423–41
Feelings of depression and parenting competence of mothers of handicapped and nonhandicapped infants: a longitudinal study. Gowen JW, et al. **Am J Ment Retard** 1989 Nov; 94(3):259–71
Depressive episodes in premenstrual syndrome. Mortola JF, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1682–7
Socioeconomic status, ethnicity, psychological distress, and readiness to utilize a mental health facility. Briones DF, et al. **Am J Psychiatry** 1990 Oct;147(10):1333–40
Religious belief, depression, and ambulation status in elderly women with broken hips. Pressman P, et al. **Am J Psychiatry** 1990 Jun;147(6):758–60
On the formation and regulation of anger and aggression. A cognitive-neoassociationistic analysis. Berkowitz L. **Am Psychol** 1990 Apr;45(4):494–503 (39 ref.)
The giving up-given up complex illustrated on film. Schmale AH Jr, et al. **Arch Gen Psychiatry** 1967 Aug;17(2):135–45
The impact of poststroke depression on recovery in activities of daily living over a 2-year follow-up. Parikh RM, et al. **Arch Neurol** 1990 Jul;47(7):785–9
Assessing explanatory style: the content analysis of verbatim explanations and the Attributional Style Questionnaire. Schulman P, et al. **Behav Res Ther** 1989;27(5):505–12
Effects of anxiety and mood manipulation in autobiographical memory. Richards A, et al. **Br J Clin Psychol** 1990 May; 29 (Pt 2):145–53
Depressive characteristics of sexually abused children. Elliott DJ, et al. **Child Psychiatry Hum Dev** 1990 Fall;21(1):37–48
Depression and depressive symptoms in smoking cessation. Covey LS, et al. **Compr Psychiatry** 1990 Jul–Aug; 31(4):350–4
Alpha 2-adrenoceptor blockade prevents the effect of desipramine in the forced swimming test. Cervo L, et al. **Eur J Pharmacol** 1990 Jan 17;175(3):301–7
Relationship between JAS- and FTAS-Type A behavior and non-CHD illness: a prospective study controlling for negative affectivity. Suls J, et al. **Health Psychol** 1990; 9(4):479–92
Anxiety and/or depression in the pathogenesis of addictive gambling. Blaszczynski A, et al. **Int J Addict** 1989 Apr; 24(4):337–50
Effects of maternal mood on mother-son interaction patterns. Jouriles EN, et al. **J Abnorm Child Psychol** 1989 Oct; 17(5):513–25
Negatively biased recall in children with self-reported symptoms of depression. Whitman PB, et al. **J Abnorm Child Psychol** 1990 Feb;18(1):15–27
Sex differences and adolescent depression. Allgood-Merten B, et al. **J Abnorm Psychol** 1990 Feb;99(1):55–63
Understanding postnatal depression: a mother-centred approach. Nicolson P. **J Adv Nurs** 1990 Jun;15(6):689–95
Nurses and shiftwork: effects on physical health and mental depression. Skipper JK JR, et al. **J Adv Nurs** 1990 Jul; 15(7):835–42
The depressive position and middle adolescence: developmental and therapeutic considerations. Lewis O. **J Am Acad Psychoanal** 1989 Fall;17(3):377–95
Depression and refusal of life support in older people. An ethical dilemma. Lee MA. **J Am Geriatr Soc** 1990 Jun; 38(6):710–4
Depression and the mediation of chronic pain. Dufton BD. **J Clin Psychiatry** 1990 Jun;51(6):248–50
Social support, life stress, and psychological distress: an empirical assessment. Flannergy RB Jr, et al. **J Clin Psychol** 1989 Nov;45(6):867–72
Cognitive distortions and depression in psychiatrically disturbed adolescent inpatients. Thurber S, et al. **J Clin Psychol** 1990 Jan;46(1):57–60
Pain coping strategies and depression in rheumatoid arthritis. Brown GK, et al. **J Consult Clin Psychol** 1989 Oct; 57(5):652–7
Depression in British and American children and its relation to anxiety and fear. Ollendick TH, et al. **J Consult Clin Psychol** 1990 Feb;58(1):126–9
Depressive deficits in memory: processing initiative and resource allocation [comment] Ellis HC. **J Exp Psychol [Gen]** 1990 Mar;119(1):60–2 Comment on: J Exp Psychol [Gen] 1990 Mar;119(1):45–59.
Remembering with and without awareness in a depressed mood: evidence of deficits in initiative [see comments] Hertel PT, et al. **J Exp Psychol [Gen]** 1990 Mar; 119(1):45–59 Comment in: J Exp Psychol [Gen] 1990 Mar;119(1):60–2.
The effect of social support on depression in caregivers of the elderly. Gallo JJ. **J Fam Pract** 1990 Apr;30(4):430–6; discussion 437–40 (55 ref.)
The relationship of daily hassles, social support, and coping to depression in black and white students. Jung J, et al. **J Gen Psychol** 1989 Oct;116(4):407–17
The effects of prolonged stimulus repetition with repeated switching of target status on the orienting response in schizophrenia and depression. Bernstein AS, et al. **J Nerv Ment Dis** 1990 Feb;178(2):96–104
Physical recklessness in adolescence. Trait or byproduct of depressive/suicidal states? Clark DC, et al. **J Nerv Ment Dis** 1990 Jul;178(7):423–33
Cognitive processes and their relationship to endogenous and reactive components of depression. Deutscher S, et al. **J Nerv Ment Dis** 1990 Jun;178(6):351–9
Depressed outpatients' life contexts, amount of treatment, and treatment outcome. Moos RH. **J Nerv Ment Dis** 1990 Feb;178(2):105–12
Anger and hostility in depression. Riley WT, et al. **J Nerv Ment Dis** 1989 Nov;177(11):668–74
The role of maternal employment and depression in the psychological adjustment of chronically ill, mentally retarded, and well children. Walker LS, et al. **J Pediatr Psychol** 1989 Sep;14(3):357–70
Attributional style and depressive mood reactions. Stiensmeier-Pelster J. **J Pers** 1989 Sep;57(3):581–99
Measuring generalized expectancies for negative mood regulation: initial scale development and implications. Catanzaro SJ, et al. **J Pers Assess** 1990 Summer; 54(3–4):546–63
The Depressive Experiences Questionnaire: a further

evaluation. Klein DN. **J Pers Assess** 1989 Winter; 53(4):703–15
Sex differences on the revised Beck Depression Inventory for outpatients with affective disorders. Steer RA, et al. **J Pers Assess** 1989 Winter;53(4):693–702
Self-esteem and perceptions of conveyed impressions: is negative affectivity associated with greater realism? Campbell JD, et al. **J Pers Soc Psychol** 1990 Jan; 58(1):122–33
Ratings of social support by adolescents and adult informants: degree of correspondence and prediction of depressive symptoms. Cutrona CE. **J Pers Soc Psychol** 1989 Oct; 57(4):723–30
Satisfaction in interpersonal interactions as a function of similarity in level of dysphoria. Locke KD, et al. **J Pers Soc Psychol** 1990 May;58(5):823–31
Depressive self-presentation: beyond self-handicapping. Weary G, et al. **J Pers Soc Psychol** 1990 May;58(5):892–8
Self-focused attention, coping responses, and distressed mood in everyday life. Wood JV, et al. **J Pers Soc Psychol** 1990 Jun;58(6):1027–36
Does affect induce self-focused attention? Wood JV, et al. **J Pers Soc Psychol** 1990 May;58(5):899–908
Personality correlates of attributional style. Mitchell JV Jr. **J Psychol** 1989 Sep;123(5):447–63
The role of marital interaction in chronic pain and depressive symptom severity. Kerns RD, et al. **J Psychosom Res** 1990; 34(4):401–8
Depression and the dynamics of smoking. A national perspective [see comments] Anda RF, et al. **JAMA** 1990 Sep 26;264(12):1541–5 Comment in: JAMA 1990 Sep 26;264(12):1583–4.
Blue mood, blackened lungs. Depression and smoking [editorial; comment] Glass RM. **JAMA** 1990 Sep 26; 264(12):1583–4 Comment on: JAMA 1990 Sep 26;264(12):1541–5. Comment on: JAMA 1990 Sep 26;264(12):1546–9.
Effects of minaprine and sulpiride injected into the amygdaloid nucleus on the duration of immobility in rats forced to swim. Kawashima K, et al. **Jpn J Pharmacol** 1990 Jul;53(3):411–3
Anosognosia and major depression in 2 patients with cerebrovascular lesions. Starkstein SE, et al. **Neurology** 1990 Sep;40(9):1380–2
Perceptual asymmetry for happy–sad chimeric faces: effects of mood [published erratum appears in Neuropsychologia 1990;28(1):109] David AS. **Neuropsychologia** 1989; 27(10):1289–300
Predictors of depression among wife caregivers. Robinson KM. **Nurs Res** 1989 Nov–Dec;38(6):359–63
Some characteristics of relations among depression, anxiety, and self-efficacy. Comunian AL. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):755–64
Primate social behavior—anxiety or depression? Vellucci SV. **Pharmacol Ther** 1990;47(2):167–80 (88 ref.)
Animal models of depression: an overview. Willner P. **Pharmacol Ther** 1990;45(3):425–55 (272 ref.)
Organization of depressive symptoms in the elderly population: hierarchical patterns and Guttman scales. Downes JJ, et al. **Psychol Aging** 1988 Dec;3(4):367–74
Chronic strain, locus of control, and distress in older adults. Krause N. **Psychol Aging** 1987 Dec;2(4):375–82
Satisfaction with social support and depressive symptoms: a panel analysis. Krause N, et al. **Psychol Aging** 1989 Mar; 4(1):88–97
Chronic financial strain, social support, and depressive symptoms among older adults. Krause N. **Psychol Aging** 1987 Jun;2(2):185–92
Depressive symptom patterns among older women. Newmann JP, et al. **Psychol Aging** 1990 Mar;5(1):101–18
Memory complaint and memory performance in the depressed elderly. O'Hara MW, et al. **Psychol Aging** 1986 Sep;1(3):208–14
Personality correlates and cyclicity in positive and negative affect. Almagor M, et al. **Psychol Rep** 1990 Jun;66(3 Pt 2):1159–69
Concurrent incidence of depression and physical symptoms among hostile young women. Brown A, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):739–44
Effect of exposure to humorous stimuli on induced depression. Danzer A, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):1027–36
Type A behavior, depression and suicidal ideation. Lester D. **Psychol Rep** 1989 Dec;65(3 Pt 2):1234
Self-consciousness, self-esteem and depression of gifted school children. Pearson M, et al. **Psychol Rep** 1990 Jun; 66(3 Pt 1):960–2
Children's perceptions of counter-depressive activities. Wierzbicki M. **Psychol Rep** 1989 Dec;65(3 Pt 2):1251–8
Self-esteem, depression, and alcohol dependency among high school students. Workman M, et al. **Psychol Rep** 1989 Oct; 65(2):451–5
Effect of imipramine in the "learned helplessness" model of depression in rats is not mimicked by combinations of specific reuptake inhibitors and scopolamine. Geoffroy M, et al. **Psychopharmacology (Berl)** 1990;101(3):371–5
[The results of a study of frustration and depression in older primiparae] Popov I, et al. **Akush Ginekol (Sofiia)** 1990; 29(1):28–32 (Eng. Abstr.) **(Bul)**
[Baby-blues. Post-partum depression and perturbation of mother–infant interactions during the first three months of life. (Study on a population sample of middle or upper socioeconomic status)] Lemaitre-Sillère V, et al. **Psychiatr Enfant** 1989;32(1):161–208 (Eng. Abstr.) **(Fre)**
[The structure of depressive affect in puberty using the German Children's Depression Inventory] Lobert W. **Z Kinder Jugendpsychiatr** 1990 Mar;18(1):18–22 (Eng. Abstr.) **(Ger)**
[A study of drinking habits of rural middle and old aged residents in Ibaraki Prefecture—relationship between problem drinking, depression and personality (Part 1). On male subjects] Satoh S, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1990 Feb;25(1):48–58 (Eng. Abstr.) **(Jpn)**
[A study of drinking habits of rural middle and old aged residents in Ibaraki Prefecture—relationship between problem drinking, depression and personality (Part 2). On female subjects] Satoh S, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1990 Feb;25(1):59–67 (Eng. Abstr.) **(Jpn)**
[Burnout syndrome of human services professionals—doctors, nurses, caregivers, teachers and clerks (1). Maslach Burnout Inventory: factor structures for samples of human services professionals, and its relation with Zung's Self-rating Depression Scale (SDS)] Masuko E, et al. **Sangyo Igaku** 1989 Jul;31(4):203–15 (Eng. Abstr.) **(Jpn)**
[The distinct quality of the depressed mood. I: Is it a myth or a reality? (a controlled study)] Ramos Brieva JA, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Nov–Dec;17(6):419–23 (Eng. Abstr.) **(Spa)**
[Current facts about depression] Pichot P. **An R Acad Nac Med (Madr)** 1989;106(4):635–44 **(Spa)**

THERAPY

Hospital supervised vs home exercise in cardiac rehabilitation: effects on aerobic fitness, anxiety, and depression. Kugler J, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):322–5
Depression and the menopause. Gath D, et al. **BMJ** 1990 May 19;300(6735):1287–8 (24 ref.)
Exercise and the treatment of depression [editorial] [see comments] Biddle S. **Br J Hosp Med** 1989 Oct;42(4):267 Comment in: Br J Hosp Med 1990 Feb;43(2):107.
How to unmask depression. Buckwalter KC. **Geriatr Nurs (New York)** 1990 Jul–Aug;11(4):179–81
A comparison of meditation-relaxation and cognitive/behavioral techniques for reducing anxiety and depression in a geriatric population. Deberry S, et al. **J Geriatr Psychiatry** 1989;22(2):231–47
Group therapy in a general practice setting for frequent attenders: a controlled study of mothers with pre-school children. Benson P, et al. **J R Coll Gen Pract** 1988 Dec; 38(317):539–41
Developing an outcomes management strategy for the treatment of depression. Smith GR. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Nov; 5(11):590–2
Seasonal affective disorder. Shedding light on a dark subject. Chung YS, et al. **Postgrad Med** 1989 Oct;86(5):309–14 (24 ref.)
Treatment of acute major mood disturbance. Livingston M. **Practitioner** 1989 Mar 22;233(1465):409–11
Reducing symptoms of depression with exercise [letter] Pappas GP, et al. **Psychosomatics** 1990 Winter;31(1):112–3
The enigma of the stigma of ECT: 50 years of myth and misrepresentation. Hay DP, et al. **Wis Med J** 1989 Dec; 88(12):4–10 (31 ref.)
[Psychiatric problems in the care of AIDS patients by the internist] Stiefel F, et al. **Dtsch Med Wochenschr** 1989 Dec 1;114(48):1889–93 (44 ref.) **(Ger)**
[Resistance in the psychotherapy of depression] Trbović M. **Acta Med Iugosl** 1989;43(5):397–403 (Eng. Abstr.) **(Ser)**

URINE

Effect of diet on urinary excretion of unconjugated catecholamines and some of their metabolites in healthy control subjects and depressed patients. Moleman P. **Clin Chim Acta** 1990 Jul;189(1):19–24

DEPRESSION, BIPOLAR see **BIPOLAR DISORDER**

DEPRESSION, ENDOGENOUS see **DEPRESSIVE DISORDER**

DEPRESSION, NEUROTIC see **DEPRESSIVE DISORDER**

DEPRESSION, REACTIVE see **ADJUSTMENT DISORDERS**

DEPRESSION, REACTIVE, PSYCHOTIC see **AFFECTIVE DISORDERS, PSYCHOTIC**

DEPRESSION, UNIPOLAR see **DEPRESSIVE DISORDER**

DEPRESSIVE DISORDER

Panic disorder and depression in patients with chest pain not due to coronary artery disease [letter; comment] Carney RM, et al. **Am J Cardiol** 1990 Apr 15;65(15):1048 Comment on: Am J Cardiol 1989 Jun 1;63(18):1399–403.
Postnatal depression: a serious and neglected postpartum complication. Cox JL. **Baillieres Clin Obstet Gynaecol** 1989 Dec;3(4):839–55 (39 ref.)
Physical fitness, anxiety and depression. Martinsen EW. **Br J Hosp Med** 1990 Mar;43(3):194, 196, 199 (21 ref.)
Child and adult depression: concepts and continuities. Harrington RC. **Isr J Psychiatry Relat Sci** 1989; 26(1–2):12–29 (109 ref.)
The many faces of late-life depression. **J Geriatr Psychiatry** 1989;22(1):1–150
When a depressed patient fails to improve. Lentz RD. **Postgrad Med** 1990 Mar;87(4):251–8
[Depression in childhood and adolescence] Vichnar M. **Cesk Pediatr** 1989 Nov;44(11):662–4 (15 ref.) **(Cze)**
[Permanence and transformations of melancholia] Swain G. **Rev Med Suisse Romande** 1989 Dec;109(12):1041–9 **(Fre)**

BLOOD

Platelet 5-HT uptake in post-stroke depression. Barry S, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):88–9
The pharmacokinetics of paroxetine in elderly depressed patients. Ghose K. **Acta Psychiatr Scand Suppl** 1989; 350:87–8
A pharmacokinetic dose titration study in adult and elderly depressed patients. Hebenstreit GF, et al. **Acta Psychiatr Scand Suppl** 1989;350:81–4
A review of the metabolism and pharmacokinetics of paroxetine in man. Kaye CM, et al. **Acta Psychiatr Scand Suppl** 1989;350:60–75 (24 ref.)
Paroxetine plasma levels: lack of correlation with efficacy or adverse events. Tasker TC, et al. **Acta Psychiatr Scand Suppl** 1989;350:152–5
Prolactin levels in women with seasonal affective disorder [letter; comment] Dinan TG, et al. **Am J Psychiatry** 1990 Jun;147(6):817–8 Comment on: Am J Psychiatry 1989 Aug;146(8):989–95.
Apparent phase advance in diurnal MHPG rhythm in depression. Gwirtsman HE, et al. **Am J Psychiatry** 1989 Nov;146(11):1427–33
Two varieties of plasma imipramine curves in psychotic depressions and normal controls. Haydu GG, et al. **Am J Psychiatry** 1967 Aug;124(2):257–60
Elevated plasma concentrations of alpha 1-acid glycoprotein, a putative endogenous inhibitor of the tritiated imipramine binding site, in depressed patients. Nemeroff CB, et al. **Arch Gen Psychiatry** 1990 Apr;47(4):337–40
Plasma concentration of mianserin [letter] Morris P, et al. **Aust N Z J Psychiatry** 1990 Mar;24(1):12–3
Serotonin receptor sensitivity in major depression. Kahn RS, et al. **Biol Psychiatry** 1990 Aug 15;28(4):358–62
Increased production of thyroxine and inappropriately elevated serum thyrotropin in levels in endogenous depression. Kirkegaard C, et al. **Biol Psychiatry** 1990 Mar 1;27(5):472–6
Adrenocortical sensitivity to low-dose ACTH administration in depressed patients. Krishnan KR, et al. **Biol Psychiatry** 1990 Apr 15;27(8):930–3
Platelet serotonin-2 receptor binding sites in depression and suicide. Pandey GN, et al. **Biol Psychiatry** 1990 Aug 1; 28(3):215–22
Plasma dexamethasone concentrations and the dexamethasone suppression test [published erratum appears in Biol Psychiatry 1990 Apr 1;27(7):809] Ritchie JC, et al. **Biol Psychiatry** 1990 Jan 15;27(2):159–73
Neuroendocrine aspects of primary endogenous depression. X: Serum growth hormone measures in patients and matched control subjects. Rubin RT, et al. **Biol Psychiatry** 1990 May 15;27(10):1065–82
Age, postdexamethasone cortisol, and depression [correction] [letter] Whiteford HA. **Biol Psychiatry** 1989 Oct;26(6):651
The hormonal environment of post-natal depression. Harris B, et al. **Br J Psychiatry** 1989 May;154:660–7
Consistent reduction of ACTH responses to stimulation with CRH, vasopressin and hypoglycaemia in patients with major depression. Kathol RG, et al. **Br J Psychiatry** 1989 Oct;155:468–78
Tricyclic wash-out and growth hormone response to clonidine. Schittecatte M, et al. **Br J Psychiatry** 1989 Jun; 154:858–63
The pharmacology of reversible monoamine oxidase inhibitors. Amrein R, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):66–71 (35 ref.)
Comparative plasma levels of doxepin and desipramine in the elderly. Gosselin C, et al. **Can J Psychiatry** 1989 Dec; 34(9):921, 923–4
Effect of morphine on cortisol and prolactin secretion in anorexia nervosa and depression. Zis AP, et al. **Clin Endocrinol (Oxf)** 1989 Apr;30(4):421–7
Evidence for a linear relationship between plasma trazodone levels and clinical response in depression in the elderly. Monteleone P, et al. **Clin Neuropharmacol** 1990;13 Suppl 1:S84–9
Plasma-level response relationships with fluoxetine and zimelidine. Montgomery SA, et al. **Clin Neuropharmacol** 1990;13 Suppl 1:S71–5
Clinical and experimental studies on fluoxetine: effects on serotonin uptake. Butler J, et al. **Int Clin Psychopharmacol** 1990 Jan;5(1):41–8
Osmotic behavior of erythrocytes from patients with a major affective disorder. A freeze-fracture electron microscopic study. Goekoop JG, et al. **J Affective Disord** 1990 Jun; 19(2):139–47

[3H]yohimbine binding to platelet alpha 2-adrenoceptors in depression. Katona CL, et al. **J Affective Disord** 1989 Nov-Dec;17(3):219-28

Plasma tryptophan to large neutral amino acid ratios in depressed and normal subjects. Russ MJ, et al. **J Affective Disord** 1990 May;19(1):9-14

Growth hormone dysregulation in children with major depressive disorder. Jensen JB, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar; 29(2):295-301

Clinical use of the determination of serotonin in whole blood. Kremer HP, et al. **J Clin Psychopharmacol** 1990 Apr; 10(2):83-7

Plasma tranylcypromine: relationship to pharmacokinetic variables and clinical antidepressant actions. Mallinger AG, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):176-83

The influence of the route of administration of imipramine on imipramine and desipramine blood levels. Rigal J, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):364-7

Amino acid levels in elderly nursing home residents. Katz IR, et al. **J Geriatr Psychiatry Neurol** 1989 Oct-Dec; 2(4):215-22

Mood changes, obstetric experience and alterations in plasma cortisol, beta-endorphin and corticotrophin releasing hormone during pregnancy and the puerperium. Smith R, et al. **J Psychosom Res** 1990;34(1):53-69

Trace element studies on Karachi population. Part IV: Blood copper, zinc, magnesium and lead levels in psychiatric patients with depression, mental retardation and seizure disorders. Manser WW, et al. **JPMA** 1989 Oct; 39(10):269-74

Enhancement of recovery from psychiatric illness by methylfolate. Godfrey PS, et al. **Lancet** 1990 Aug 18; 336(8712):392-5

Further investigation on benzodiazepine binding inhibitory activity in patients with major depression or panic disorder and in healthy volunteers. Marazziti D, et al. **Neuropsychobiology** 1989;21(1):14-6

Serotonin uptake by platelets of suicidal and aggressive adolescent psychiatric inpatients. Modai I, et al. **Neuropsychobiology** 1989;21(1):9-13

Serum concentrations of circulating thyroid hormones in a group of depressed men. Wahby V, et al. **Neuropsychobiology** 1989;22(1):8-10

Elevated 3H-para-aminoclonidine binding to platelet purified plasma membranes from depressed patients. Piletz JE, et al. **Neuropsychopharmacology** 1990 Jun;3(3):201-10

Validity of imipramine platelet binding sites as a biological marker of endogenous depression. A World Health Organization Collaborative Study. **Pharmacopsychiatry** 1990 May;23(3):113-7

The effect of tricyclic antidepressants on basal thyroid hormone levels in depressed patients. Joffe RT, et al. **Pharmacopsychiatry** 1990 Mar;23(2):67-9

Multiple hormone responses to stimulation with dl-fenfluramine in patients with major depression before and after antidepressive treatment. Kasper S, et al. **Pharmacopsychiatry** 1990 Mar;23(2):76-84

Plasma corticosterone in dexamethasone suppression test on depressed patients. Li SW, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(2):72-9

Serum phosphate and anxiety in major depression [letter; comment] Aalbers C, et al. **Psychiatry Res** 1990 Feb; 31(2):217 Comment on: Psychiatry Res 1987 Sep;22(1):29-36.

Tonic and dynamic gonadotropin secretion in depressive and normothymic phases of affective disorders. Brambilla F, et al. **Psychiatry Res** 1990 Jun;32(3):229-39

Plasma MHPG and age at onset in depressed patients. Karege F, et al. **Psychiatry Res** 1989 Oct;30(1):103-5

Imipramine binding in depressed patients with psychogenic pain. Mellerup ET, et al. **Psychiatry Res** 1990 Apr; 32(1):29-34

Platelet adrenoceptors and prostaglandin responses in depressed patients. Roy A, et al. **Psychiatry Res** 1989 Nov; 30(2):181-9

Effects of glucocorticoids on plasma catecholamines in depression. Rupprecht R, et al. **Psychiatry Res** 1989 Aug; 29(2):187-98

Growth hormone response to clonidine in untreated depressed patients. Schittecatte M, et al. **Psychiatry Res** 1989 Aug;29(2):199-206

Aspects of amitriptyline and nortriptyline plasma levels monitoring in depression. Corona GL, et al. **Psychopharmacology (Berl)** 1990;100(3):334-8

Steady-state plasma levels of E- and Z-10-OH-nortriptyline in nortriptyline-treated patients: significance of concurrent medication and the sparteine oxidation phenotype. Gram LF, et al. **Ther Drug Monit** 1989 Sep;11(5):508-14

Cis- and trans-isomers of doxepin and desmethyldoxepin in the plasma of depressed patients treated with doxepin. Hrdina PD, et al. **Ther Drug Monit** 1990 Mar;12(2):129-33

[Thyrotrophin-releasing hormone (TRH) stimulation test in psychiatric patients] Duan Y. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Apr; 23(2):75-8, 125-6 (Eng. Abstr.) (Chi)

[Plasma levels of metapramine and its 3 major metabolites in patients with depression. Results and preliminary interpretations] Bougerol T, et al. **Encephale** 1990 Jan-Feb; 16(1):35-40 (Eng. Abstr.) (Fre)

[The ultrasensitive thyrotropin assay and thyroliberin test in patients with major depression (letter)] Bertschy G, et al. **Presse Med** 1989 Oct 14;18(33):1665-6 (Fre)

[Status-dependent neurochemical parameters in schizophrenic and affective diseases] Gross G, et al. **Fortschr Neurol Psychiatr** 1990 Apr;58(4):154-60 (Eng. Abstr.) (Ger)

[Plasma anticholinergic activity and cognitive function in geriatric patients] Thienhaus OJ, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 May; 42(5):275-81 (Eng. Abstr.) (Ger)

[Plasma and erythrocyte electrolytes in endogenous depression —neurophysiologic implications] Rybakowski J, et al. **Psychiatr Pol** 1989 Jul-Aug;23(4):265-70 (Eng. Abstr.) (Pol)

[Thrombocyte binding sites for 3H-imipramine in patients with depression] Pacáková E. **Cesk Psychiatr** 1989 Oct; 85(5):289-95 (Eng. Abstr.) (Slo)

CEREBROSPINAL FLUID

Diazepam-binding inhibitor and corticotropin-releasing hormone in cerebrospinal fluid. Roy A, et al. **Acta Psychiatr Scand** 1989 Sep;80(3):287-91

CSF 5-HIAA and HVA concentrations in elderly depressed patients who attempted suicide. Jones JS, et al. **Am J Psychiatry** 1990 Sep;147(9):1225-7

Endothelin concentrations in cerebrospinal fluid in depressive patients [letter] Hoffman A, et al. **Lancet** 1989 Dec 23-30; 2(8678-8679):1519

CHEMICALLY INDUCED

Possibility of depression as a side effect of methyldopa [letter; comment] Tchen P. **Am J Psychiatry** 1990 Jan;147(1):128 Comment on: Am J Psychiatry 1989 Jul;146(7):920-1.

Paradoxical mood changes during pharmacotherapy of bipolar patients [letter] Kusalic M, et al. **Biol Psychiatry** 1990 May 15;27(10):1183-4

Propranolol and depression: evidence from the antihypertensive trials. Patten SB. **Can J Psychiatry** 1990 Apr;35(3):257-9

Chronic solvent abuse. 2. Relationship with depression. Zur J, et al. **Child Care Health Dev** 1990 Jan-Feb;16(1):21-34

Panic attacks and major depression after discontinuation of long-term diazepam abuse. Schifano F, et al. **DICP** 1989 Dec;23(12):989-90

Beta blockers in depression [letter; comment] Rao AC. **J Assoc Physicians India** 1989 Jun;37(6):416 Comment on: J Assoc Physicians India 1988 Apr;36(4):271-6.

Lithium-induced worsening of wintertime depression in a bipolar patient [letter] Dilsaver SC, et al. **J Clin Psychiatry** 1990 Aug;51(8):347-8

Intravenous nasal decongestant use [letter] Edlund M. **J Clin Psychiatry** 1989 Oct;50(10):392

Phenobarbital treatment and major depressive disorder in children with epilepsy: a naturalistic follow-up. Brent DA, et al. **Pediatrics** 1990 Jun;85(6):1086-91

An outbreak of illness among aerospace workers [see comments] Sparks PJ, et al. **West J Med** 1990 Jul; 153(1):28-33 Comment in: West J Med 1990 Jul;153(1):77-8.

[A barbiturate derivative-induced depressive syndrome in a 9-year-old boy with complex focal seizures and secondary generalization--a case report] Hässler F. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Dec; 41(12):737-40 (Eng. Abstr.) (Ger)

[A case of depression in the treatment of nonspecific ulcerative colitis with sulfasalazine] Rebrov VG, et al. **Klin Med (Mosk)** 1989 Aug;67(8):106 (Rus)

[New findings in prolonged treatment with lithium. Unexplainable increase in the number of depressive symptoms] Nilsson A. **Lakartidningen** 1990 May 2; 87(18):1577-80 (Swe)

CLASSIFICATION

The classification of the depressions. Contemporary confusion revisited. Farmer A, et al. **Br J Psychiatry** 1989 Oct;155:437-43 (44 ref.)

Classifying depression by mental state signs. Parker G, et al. **Br J Psychiatry** 1990 Jul;157:55-65

Depression: updating the concepts. Deniker P. **Clin Neuropharmacol** 1989;12 Suppl 2:v-xii

The unipolar-bipolar distinction in the characterological mood disorders. Klein DN, et al. **J Nerv Ment Dis** 1990 May;178(5):318-23

The DSM-IV (depression) classification: to be or not to be? van Praag HM. **J Nerv Ment Dis** 1990 Mar;178(3):147-9

Classification of depression by grade of membership: a confirmation study. Davidson JR, et al. **Psychol Med** 1989 Nov;19(4):987-98

[Validity of dysthymic schizophrenia: apropos of a cohort study of delusional adolescents] Halfon O, et al. **Ann Med Psychol (Paris)** 1989 Mar-Apr;147(2):233-5 (Fre)

[Depressive states in the light of DSM-III] Kecmanović D. **Med Arh** 1984;38(5):217-23 (Eng. Abstr.) (Ser)

COMPLICATIONS

Cognitive and emotional improvement in a group of dementia patients [letter; comment] Ballard C. **Acta Psychiatr Scand** 1990 Jan;81(1):96 Comment on: Acta Psychiatr Scand 1989 Jan;79(1):41-7.

Physical illness and depression: the effects of acute physical illness on the mental state of psychiatric inpatients. Deahl MP. **Acta Psychiatr Scand** 1990 Jan;81(1):83-6

Time-related predictors of suicide in major affective disorder. Fawcett J, et al. **Am J Psychiatry** 1990 Sep; 147(9):1189-94

Short REM latency in primary alcoholic patients with secondary depression. Gillin JC, et al. **Am J Psychiatry** 1990 Jan;147(1):106-9

Treatment of hyperprolactinemia in major depression [letter] Holroyd S, et al. **Am J Psychiatry** 1990 Jun;147(6):810

Suicidality, depression, and substance abuse in adolescence. Levy JC, et al. **Am J Psychiatry** 1989 Nov;146(11):1462-7

Adjunctive imipramine maintenance treatment in schizophrenic patients with remitted postpsychotic depression. Siris SG, et al. **Am J Psychiatry** 1989 Nov; 146(11):1495-7

Major depression in patients with social phobia. Stein MB, et al. **Am J Psychiatry** 1990 May;147(5):637-9

Depression-dependent exacerbation of TD [letter; comment] Coleman R. **Br J Psychiatry** 1989 Nov;155:716-7 Comment on: Br J Psychiatry 1989 Aug;155:253-5.

Abnormal involuntary movements [clinical conference] Green BH. **Br J Psychiatry** 1989 Nov;155:707-11

Depression and abnormal illness behavior in cancer patients. Grassi L, et al. **Gen Hosp Psychiatry** 1989 Nov;11(6):404-11

Depression in patients being evaluated for heart transplantation. Maricle RA, et al. **Gen Hosp Psychiatry** 1989 Nov;11(6):418-24

Dementia is not a diagnosis. Chiverton P. **Geriatr Nurs (New York)** 1990 Jan-Feb;11(1):24-5

Depression in the medical setting. **J Clin Psychiatry** 1990 Jul;51 Suppl:1-57

Perspectives on the relationship between cardiovascular disease and affective disorder. Dalack GW, et al. **J Clin Psychiatry** 1990 Jul;51 Suppl:4-9; discussion 10-1 (59 ref.)

Personality disorder diagnoses and age in inpatients with major depression. Fogel BS, et al. **J Clin Psychiatry** 1990 Jun;51(6):232-5

Comorbidity of anxiety and depression. Cloninger CR. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):43S-46S (14 ref.)

Pseudocyesis and depression. Etiological and treatment considerations. Rubman S, et al. **J La State Med Soc** 1989 Nov;141(11):39-41

Fatigue syndromes: a comparison of chronic "postviral" fatigue with neuromuscular and affective disorders. Wessely S, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug; 52(8):940-8

Depression in multiple sclerosis: critique of the research literature. Acorn S, et al. **J Neurosci Nurs** 1990 Aug; 22(4):209-14 (25 ref.)

Dysfunctional cognitions, attributional style, and depression in bulimia. Goebel M, et al. **J Psychosom Res** 1989; 33(6):747-52

Somatization and depression. Lipowski ZJ. **Psychosomatics** 1990 Winter;31(1):13-21 (72 ref.)

To be or not to be: the suicidal patient. Paul KL, et al. **S D J Med** 1989 Sep;42(9):13-5

Variation in process S: effects on sleep continuity and architecture. Knowles JB, et al. **Sleep** 1990 Apr; 13(2):97-107

Sleep restriction for the inpatient treatment of insomnia. Morin CM, et al. **Sleep** 1990 Apr;13(2):183-6

Association between Trypanosoma cruzi zymodemes and specific humoral depression in chronic chagasic patients. Breière SF, et al. **Trans R Soc Trop Med Hyg** 1989 Jul-Aug; 83(4):517

[Memory and depression] Bourgeois M, et al. **Ann Med Psychol (Paris)** 1989 Oct;147(8):850-7 (18 ref.) (Fre)

[Consumption of psychotropic drugs and medical care preceding voluntary drug poisoning in 63 patients with major depressive disorders according to the DSM III-R] Théret L, et al. **Ann Med Psychol (Paris)** 1989 Sep; 147(7):742-7 (Eng. Abstr.) (Fre)

[Depression with panic attacks: clinical characteristics and prevalence in hospital] Hardy P, et al. **Can J Psychiatry** 1990 Mar;35(2):170-4 (Eng. Abstr.) (Fre)

[Clinico-nosographic considerations on the relation of depression and alcoholism in a population of 450 hospitalized alcoholics] Angelini G, et al. **Minerva Psichiatr** 1990 Jan-Mar;31(1):41-5 (Eng. Abstr.) (Ita)

[Stimulation of depression as a cause of circulatory and respiratory failure and death] Termińska K. **Pol Tyg Lek** 1989 Jun 12;44(24):585-6 (Pol)

[Parkinson disease and depression: a research carried out with the neurology service at S. Joao Hospital] Lume J. **Acta Med Port** 1990 Mar-Apr;3(2):95-100 (Eng. Abstr.) (Por)

[Narcissistic depression in schizophrenia] Trbović M. **Acta Med Iugosl** 1990;44(1):59-64 (Eng. Abstr.) (Ser)

[Development of a probability index for suicide risk in depression] Ramos Brieva JA, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Sep-Oct;17(5):333-52 (Eng. Abstr.) (Spa)

DIAGNOSIS

Differences between self-assessed depressive symptoms in

fully and partially hospitalized non psychotic patients diagnosed according to the Levine–Pilowsky inventory. Bolelouck ý Z, et al. **Act Nerv Super (Praha)** 1989 Dec; 31(4):254–6

Repeated dexamethasone suppression test in major depression. Hellebuyck H, et al. **Acta Psychiatr Belg** 1988; 88(5–6):378–86 (41 ref.)

Depressive type and state effects on personality measures. Boyce P, et al. **Acta Psychiatr Scand** 1990 Feb; 81(2):197–200

The heterogeneity of 3–methoxy–4–hydroxyphenylglycol levels among depressed patients. Karege F, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):499–504

Assessment of suicide risk by computer–delivered self–rating questionnaire: preliminary findings. Levine S, et al. **Acta Psychiatr Scand** 1989 Sep;80(3):216–20

Calcium and magnesium concentrations in affective disorder: difference between plasma and serum in relation to symptoms. Linder J, et al. **Acta Psychiatr Scand** 1989 Dec; 80(6):527–37

Sex–linked differences in cortisol, ACTH and prolactin responses to 5–hydroxy–tryptophan in healthy controls and minor and major depressed patients. Maes M, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):584–90

A factor analytical study of the Comprehensive Psychopathological Rating Scale among patients with anxiety and depressive disorders. Martinsen EW, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):492–8

Severity of depression and hypothalamic–pituitary–adrenal axis dysregulation: identification of contributing factors. Meador–Woodruff JH, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):364–71

The dexamethasone suppression test and completed suicide. Norman WH, et al. **Acta Psychiatr Scand** 1990 Feb; 81(2):120–5

Serum dopamine–beta–hydroxylase activity in clinical subtypes of depression. Sapru MK, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):474–8

Ethological assessment of the DSM–III subtyping of unipolar depression. Troisi A, et al. **Acta Psychiatr Scand** 1990 Jun; 81(6):560–4

Diagnostic and therapeutic value of testing stimulation of thyroid–stimulating hormone by thyrotropin–releasing hormone in 100 depressed patients. Vanelle JM, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):156–61

Outcome of panic and depression in a seven–year follow–up: results of the Zurich study. Vollrath M, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):591–6

Low basal levels of cortisol distinguish detoxified alcoholics with major depressive disorder from non–MDDs. Halbreich U, et al. **Alcoholism (N Y)** 1989 Dec;13(6):834–6

Recognition and management of dysthymic disorder. Finlayson R. **Am Fam Physician** 1989 Oct;40(4):229–38 (19 ref.)

Use of the dexamethasone suppression test with mentally retarded persons: review and recommendations. Wolkowitz OM. **Am J Ment Retard** 1990 Mar;94(5):509–14 (13 ref.)

Ventricular abnormalities in affective disorder: clinical and demographic correlates. Andreasen NC, et al. **Am J Psychiatry** 1990 Jul;147(7):893–900

Depressive episodes and dysphoria resulting from conjugal bereavement in a prospective community sample. Bruce ML, et al. **Am J Psychiatry** 1990 May;147(5):608–11

Substituting nonsomatic for somatic symptoms in the diagnosis of depression [letter; comment] Chaturvedi SK. **Am J Psychiatry** 1990 Jul;147(7):958–9 Comment on: Am J Psychiatry 1989 Sep;146(9):1197–200.

Thyroid dysfunction in postpartum depression [letter] Claman P. **Am J Psychiatry** 1990 Aug;147(8):1101

Somatic symptoms and the diagnosis of depression in medically ill patients [letter] Craven JL, et al. **Am J Psychiatry** 1990 Jun;147(6):814–5

Positive and negative symptoms and social competence in adolescents at risk for schizophrenia and affective disorder. Dworkin RH, et al. **Am J Psychiatry** 1990 Sep; 147(9):1234–6

Diagnosis and treatment of depression [letter] Friedman EH. **Am J Psychiatry** 1989 Nov;146(11):1517–8

Symptoms of major depression among Mexican–Americans and non–Hispanic whites. Golding JM, et al. **Am J Psychiatry** 1990 Jul;147(7):861–6

Diagnosis of major depression in cancer patients according to four sets of criteria. Kathol RG, et al. **Am J Psychiatry** 1990 Aug;147(8):1021–4

Symptom criteria and family history in major depression. Klein DN. **Am J Psychiatry** 1990 Jul;147(7):850–4

Alzheimer's disease and depression: neuropsychological impairment and progression of the illness. Lopez OL, et al. **Am J Psychiatry** 1990 Jul;147(7):855–60

Left prefrontal glucose hypometabolism in the depressed state: a confirmation. Martinot JL, et al. **Am J Psychiatry** 1990 Oct;147(10):1313–7

A review of the depressive personality. Phillips KA, et al. **Am J Psychiatry** 1990 Jul;147(7):830–7 (76 ref.)

Seasonal affective disorder and the photic sneeze response [letter] Pies R. **Am J Psychiatry** 1990 Aug;147(8):1094

Biases in family assessments of depression in patients with Alzheimer's disease [letter; comment] Schulz R, et al. **Am J Psychiatry** 1990 Mar;147(3):377–8 Comment on: Am J Psychiatry 1989 Sep;146(9):1174–8.

Comparison of self–rated and clinician–rated measures of depression in adolescents. Shain BN, et al. **Am J Psychiatry** 1990 Jun;147(6):793–5

Variability in the application of contemporary diagnostic criteria: endogenous depression as an example. Zimmerman M, et al. **Am J Psychiatry** 1990 Sep;147(9):1173–9

Affective syndromes, psychotic features, and prognosis. I. Depression. Coryell W, et al. **Arch Gen Psychiatry** 1990 Jul;47(7):651–7

Gauging recovery rates requires test norms [letter; comment] Cudrin JM. **Arch Gen Psychiatry** 1989 Nov;46(11):1054 Comment on: Arch Gen Psychiatry 1989 Feb;46(2):122–6.

Seasonal independence of low prolactin concentration and high spontaneous eye blink rates in unipolar and bipolar II seasonal affective disorder. Depue RA, et al. **Arch Gen Psychiatry** 1990 Apr;47(4):356–64

Difference between evening and morning thyrotropin responses to protirelin in major depressive episode. Duval F, et al. **Arch Gen Psychiatry** 1990 May;47(5):443–8

Adult outcomes of childhood and adolescent depression. I. Psychiatric status. Harrington R, et al. **Arch Gen Psychiatry** 1990 May;47(5):465–73

Toward a definition of depression. Lorr M, et al. **Arch Gen Psychiatry** 1967 Aug;17(2):183–6

Memory complaints and impairment in normal, depressed, and demented elderly persons identified in a community survey. O'Connor DW, et al. **Arch Gen Psychiatry** 1990 Mar;47(3):224–7

Factors associated with 1–year outcome of major depression in the community. Sargeant JK, et al. **Arch Gen Psychiatry** 1990 Jun;47(6):519–26

Relationship between anxiety disorders and depressive disorders in patients with cerebrovascular injury. Starkstein SE, et al. **Arch Gen Psychiatry** 1990 Mar;47(3):246–51

Direction of weight change in recurrent depression. Consistency across episodes. Stunkard AJ, et al. **Arch Gen Psychiatry** 1990 Sep;47(9):857–60

Beta–lipotropin–beta–endorphin response to low–dose ovine corticotropin releasing factor in endogenous depression. Preliminary studies. Young EA, et al. **Arch Gen Psychiatry** 1990 May;47(5):449–57

Depressed or just sick? [letter; comment] Jenkins RW. **Arch Intern Med** 1990 Jun;150(6):1349–50 Comment on: Arch Intern Med 1988 Sep;148(9):1929–36.

Depressed mood in spinal cord injured patients: staff perceptions and patient realities. Cushman LA, et al. **Arch Phys Med Rehabil** 1990 Mar;71(3):191–6

The limitations of multivariate statistical methods in the mensuration of human misery. Hall W. **Aust N Z J Psychiatry** 1989 Dec;23(4):503–11

Endogenous depression as a construct: a quantitative analysis of the literature and a study of clinician judgements [published erratum appears in Aust N Z J Psychiatry 1990 Mar;24(1):15] Parker G, et al. **Aust N Z J Psychiatry** 1989 Sep;23(3):357–68

Comparison of growth hormone response after clonidine and insulin hypoglycemia in affective illness. Amsterdam JD, et al. **Biol Psychiatry** 1990 Aug 15;28(4):308–14

The sleep of dysthymic patients: a comparison with normal controls. Arriaga F, et al. **Biol Psychiatry** 1990 Mar 15; 27(6):649–56

Diagnosis of depression in alcoholics [letter] Domino LE, et al. **Biol Psychiatry** 1990 Jul 1;28(1):84–5

CSF 5–HIAA, serum cortisol, and age differentially predict vegetative and cognitive symptoms in depression. Faustman WO, et al. **Biol Psychiatry** 1990 Feb 1; 27(3):311–8

Multiplicity of depressive episodes: phenomenological and neuroendocrine correlates. Gurguis GN, et al. **Biol Psychiatry** 1990 May 15;27(10):1156–64

Comparisons of plasma and salivary cortisol determinations for the diagnostic efficacy of the dexamethasone suppression test. Harris B, et al. **Biol Psychiatry** 1990 Apr 15;27(8):897–904

Serial dexamethasone suppression test in psychiatric inpatients. Hwu HG, et al. **Biol Psychiatry** 1990 Mar 15; 27(6):609–16

Dexamethasone suppression test in Brazil. Kerr F, et al. **Biol Psychiatry** 1990 Mar 15;27(6):678–80

Effects of dexamethasone on the availability of L–tryptophan and on the insulin and FFA concentrations in unipolar depressed patients. Maes M, et al. **Biol Psychiatry** 1990 Apr 15;27(8):854–62

Prediction of the DST results in depressives by means of urinary–free cortisol excretion, dexamethasone levels, and age. Maes M, et al. **Biol Psychiatry** 1990 Aug 15; 28(4):349–57

The relationships between the cortisol responses to dexamethasone and to L–5–HTP, and the availability of L–tryptophan in depressed females. Maes M, et al. **Biol Psychiatry** 1990 Mar 15;27(6):601–8

REM latency in psychotically depressed adolescents. Naylor MW, et al. **Biol Psychiatry** 1990 Jul 15;28(2):161–4

Plasma dexamethasone levels in children given the dexamethasone suppression test. Naylor MW, et al. **Biol Psychiatry** 1990 Mar 15;27(6):592–600

Psychopathology and plasma cortisol responses to dexamethasone in prepubertal psychiatric inpatients. Pfeffer CR, et al. **Biol Psychiatry** 1989 Nov;26(7):677–89

Quantitative, waking EEG research on depression. Pollock VE, et al. **Biol Psychiatry** 1990 Apr 1;27(7):757–80 (125 ref.)

Cortisol, ACTH, and beta–endorphin after dexamethasone administration in Parkinson's dementia. Rabey JM, et al. **Biol Psychiatry** 1990 Mar 15;27(6):581–91

Neuroanatomical changes and hypothalamo–pituitary–adrenal axis abnormalities. Rao VP, et al. **Biol Psychiatry** 1989 Nov;26(7):729–32

Relationships between brain CT scan findings and cortisol in psychotic and nonpsychotic depressed patients. Rothschild AJ, et al. **Biol Psychiatry** 1989 Oct;26(6):565–75

Optimizing REM latency as a diagnostic test for depression using receiver operating characteristic analysis and information theory. Somoza E, et al. **Biol Psychiatry** 1990 May 1;27(9):990–1006

Comorbidity in the interpretation of dexamethasone suppression test results in children: a review and report. Steingard R, et al. **Biol Psychiatry** 1990 Aug 1; 28(3):193–202 (55 ref.)

Differential responses to anxiogenic challenge studies in patients with major depressive disorder and panic disorder. Targum SD. **Biol Psychiatry** 1990 Jul 1;28(1):21–34

Cholinergic REM sleep induction in atypical depression. Wager S, et al. **Biol Psychiatry** 1990 Feb 15;27(4):441–6

Thyrotropin and prolactin response to thyrotropin–releasing hormone in depressed and nondepressed alcoholic men. Willenbring ML, et al. **Biol Psychiatry** 1990 Jan 1; 27(1):31–8

Problems in using the hospital anxiety and depression scale for screening patients in general practice. Dowell AC, et al. **Br J Gen Pract** 1990 Jan;40(330):27–8

Depressive disorder in children and adolescents. Harrington RC. **Br J Hosp Med** 1990 Feb;43(2):108, 110, 112 (38 ref.)

Diagnosis, personality and the long–term outcome of depression. Andrews G, et al. **Br J Psychiatry** 1990 Jul; 157:13–8

Nosological problems [letter; comment] Ballard CG. **Br J Psychiatry** 1989 May;154:730 Comment on: Br J Psychiatry 1989 Feb;154:201–6.

Syphilis serology screening in a psychogeriatric population. Is the effort worthwhile? [see comments] Boodhoo JA. **Br J Psychiatry** 1989 Aug;155:259–62 Comment in: Br J Psychiatry 1989 Nov;155:714–5. Comment in: Br J Psychiatry 1990 Feb;156:283–4.

A comparison of early–onset and late–onset depressive illness in the elderly. Burvill PW, et al. **Br J Psychiatry** 1989 Nov; 155:673–9

Dhat syndrome. A sex neurosis of the Indian subcontinent. Chadda RK, et al. **Br J Psychiatry** 1990 Apr;156:577–9

Asian patients and the HAD scale [letter; comment] Chaturvedi SK. **Br J Psychiatry** 1990 Jan;156:133 Comment on: Br J Psychiatry 1989 Oct;155:545–7.

Pseudodementia [letter; comment] Eastwood R, et al. **Br J Psychiatry** 1989 Dec;155:870–1 Comment on: Br J Psychiatry 1989 Jun;154:872–6.

Munchausen syndrome masquerading as AIDS–induced depression [letter] McDonald J, et al. **Br J Psychiatry** 1989 Mar;154:420–1

The evaluation of psychiatric illness in Asian patients by the Hospital Anxiety Depression Scale [see comments] Nayani S. **Br J Psychiatry** 1989 Oct;155:545–7 Comment in: Br J Psychiatry 1990 Jan;156:133.

Screening for adjustment disorders and major depressive disorders in cancer in–patients. Razavi D, et al. **Br J Psychiatry** 1990 Jan;156:79–83

Dexamethasone suppression test in dementia and depression. Clinical and biological correlates. Shrimankar J, et al. **Br J Psychiatry** 1989 Mar;154:372–7

Anterior tumour of the corpus callosum with atypical depression. Tanaghow A, et al. **Br J Psychiatry** 1989 Dec; 155:854–6

Vocal acoustic correlates of flat affect in schizophrenia. Similarity to Parkinson's disease and right hemisphere disease and contrast with depression. Alpert M, et al. **Br J Psychiatry Suppl** 1989 May;(4):51–6

Neuroendocrine challenges in the diagnosis of depressive disorders. López–Ibor JJ Jr, et al. **Br J Psychiatry Suppl** 1989 May;(4):73–6

The picture absurdities test in the evaluation of dementia. Shuttleworth EC, et al. **Brain Cogn** 1989 Sep;11(1):50–9

Depression dexamethasone nonsuppression and negative symptoms in schizophrenia. Addington D, et al. **Can J Psychiatry** 1990 Jun;35(5):430–3

Neuroendocrine probes as biological markers of affective disorders: new directions. Brown GM. **Can J Psychiatry** 1989 Nov;34(8):819–23 (62 ref.)

Effect of concurrent medical illness on dexamethasone suppression test results in depressed inpatients. Cooke RG, et al. **Can J Psychiatry** 1990 Feb;35(1):31–5

Measured weight loss and the dexamethasone suppression test. Kennedy SH, et al. **Can J Psychiatry** 1989 Oct; 34(7):707–9

Personality dysfunction in depressed adolescents. Marton P, et al. **Can J Psychiatry** 1989 Nov;34(8):810–3

Neuroimaging and affective disorder in late life: a review. Morris P, et al. **Can J Psychiatry** 1990 May;35(4):347–54 (112 ref.)

Postpartum psychiatric disorders. Steiner M. **Can J Psychiatry** 1990 Feb;35(1):89–95 (83 ref.)

Periodic health examination, 1990 update: 2. Early detection of depression and prevention of suicide. Canadian Task Force on the Periodic Health Examination. **Can Med Assoc J** 1990 Jun 1;142(11):1233–8 (73 ref.)

Early detection of depression by primary care physicians. Feightner JW, et al. **Can Med Assoc J** 1990 Jun 1; 142(11):1215–20 (37 ref.)

The influence of racial factors on psychiatric diagnosis: a review and suggestions for research. Neighbors HW, et al. **Community Ment Health J** 1989 Winter;25(4):301–11 (45 ref.)

Is winter depression a bipolar disorder? White DM, et al. **Compr Psychiatry** 1990 May–Jun;31(3):196–204

On the way to expert systems. Comparing DSM–III computer diagnoses with CATEGO (ICD) diagnoses in depressive and schizophrenic patients. Maurer K, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(2):127–32

Differentiating major depression from adjustment disorder with depressed mood in the medical setting. Snyder S, et al. **Gen Hosp Psychiatry** 1990 May;12(3):159–65

Major depression and amyloidosis. Wells DA, et al. **Gen Hosp Psychiatry** 1989 Nov;11(6):425–6

Psychogeriatric assessment and treatment in urban public housing. Roca RP, et al. **Hosp Community Psychiatry** 1990 Aug;41(8):916–20

Depression with and without dementia. Reifler BV. **Hosp Pract [Off]** 1990 Apr 30;25(4A):47–51, 54, 59, passim

Depression, the insanity defense, and civil commitment: foundations in autonomy and responsibility. Schopp RF. **Int J Law Psychiatry** 1989;12(1):81–98

Childhood depression: problems of definition. Verhulst FC. **Isr J Psychiatry Relat Sci** 1989;26(1–2):3–11

Identifying depression in children: a comparison of alternative selection criteria. Kazdin AE. **J Abnorm Child Psychol** 1989 Aug;17(4):437–54

Reliability of children's reports of depressive symptomatology. Reynolds WM, et al. **J Abnorm Child Psychol** 1989 Dec;17(6):647–55

Evaluation of subclinical depression in children using self–, peer–, and teacher–report measures. Worchel FF, et al. **J Abnorm Child Psychol** 1990 Jun;18(3):271–82

Regional brain electrical asymmetries discriminate between previously depressed and healthy control subjects. Henriques JB, et al. **J Abnorm Psychol** 1990 Feb; 99(1):22–31

Postnatal depression: what can a health visitor do? Taylor E. **J Adv Nurs** 1989 Oct;14(10):877–86

Recurrent brief depression: a new subtype of affective disorder. Angst J, et al. **J Affective Disord** 1990 Jun; 19(2):87–98

Neuroendocrine challenge tests in depression: a study of growth hormone, TRH and cortisol release. Barry S, et al. **J Affective Disord** 1990 Apr;18(4):229–34

Sleep patterns in borderline personality disorder. Benson KL, et al. **J Affective Disord** 1990 Apr;18(4):267–73

Neuroendocrine investigation in children and adolescents with dysthymic disorders: the DST, TRH and clonidine tests. Brambilla F, et al. **J Affective Disord** 1989 Nov–Dec; 17(3):279–84

Validity of adjustment disorder, comparison with major depression. Bronisch T, et al. **J Affective Disord** 1989 Nov–Dec;17(3):229–36

Persistent cortisol non–suppression after clinical recovery predicts symptomatic relapse in unipolar depression. Charles GA, et al. **J Affective Disord** 1989 Nov–Dec; 17(3):271–8

EEG sleep in adolescents with major depression: the role of suicidality and inpatient status. Dahl RE, et al. **J Affective Disord** 1990 May;19(1):63–75

Extraction of depression scores in adolescents from a general–purpose behaviour checklist. Hepperlin CM, et al. **J Affective Disord** 1990 Feb;18(2):105–12

A polysomnographic study in young psychiatric inpatients: major depression, anorexia nervosa, bulimia nervosa. Lauer CJ, et al. **J Affective Disord** 1990 Apr;18(4):235–45

The effects of glucocorticoids on the availability of L–tryptophan and tyrosine in the plasma of depressed patients. Maes M, et al. **J Affective Disord** 1990 Feb; 18(2):121–7

An augmented escape of beta–endorphins to suppression by dexamethasone in severely depressed patients. Maes M, et al. **J Affective Disord** 1990 Mar;18(3):149–56

Hormonal responses to fenfluramine in depressed and control subjects. Mitchell P, et al. **J Affective Disord** 1990 May; 19(1):43–51

The effect of dexamethasone dosage upon plasma cortisol and dexamethasone during the DST. Wiedemann K, et al. **J Affective Disord** 1990 Jun;19(2):133–7

Properties of the Inventory to Diagnose Depression in American Indian adolescents. Ackerson LM, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):601–7

Videotape reliability of the third revised edition of the K–SADS. Ambrosini PJ, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Sep;28(5):723–8

Internal consistency of DSM–III diagnoses using the symptom scales of the Child Assessment Schedule. Hodges K, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul; 29(4):635–41

The Johns Hopkins Depression Scale: normative data and validation in child psychiatry patients. Joshi PT, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar;29(2):283–8

Utility of the Beck Depression Inventory with clinic–referred adolescents. Kashani JH, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar;29(2):278–82

Catecholamines and diagnoses in children. Rogeness GA, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar; 29(2):234–41

Is major depressive disorder in childhood a distinct diagnostic entity? Seifer R, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):935–41

Depression in children? [letter] Shain B, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May;29(3):484–5

Depressive symptoms by self–report in adolescence: phase I of the development of a questionnaire for depression by self–report. Emslie GJ, et al. **J Child Neurol** 1990 Apr; 5(2):114–21

Childhood depression. Kazdin AE. **J Child Psychol Psychiatry** 1990 Jan;31(1):121–60 (217 ref.)

Guidelines for diagnosis and treatment of depression in patients with medical illness. Cameron OG. **J Clin Psychiatry** 1990 Jul;51 Suppl:49–54; discussion 55–7 (29 ref.)

Onset of winter depression earlier than generally thought? [letter] Dilsaver SC. **J Clin Psychiatry** 1990 Jun;51(6):258

Major depression versus organic mood disorder: a questionable distinction. Fogel BS. **J Clin Psychiatry** 1990 Feb;51(2):53–6 (13 ref.)

Depression and chronic medical illness. Katon W, et al. **J Clin Psychiatry** 1990 Jun;51 Suppl:3–11; discussion 12–4 (136 ref.)

Problems associated with the diagnosis of depression. Rush AJ. **J Clin Psychiatry** 1990 Jun;51 Suppl:15–22; discussion 23–5 (35 ref.)

Anxiety and mood disorders in medically ill patients. Wise MG, et al. **J Clin Psychiatry** 1990 Jan;51 Suppl:27–32 (34 ref.)

The Brief Psychiatric Rating Scale (BPRS) and the Nurses' Observation Scale for Inpatient Evaluation (NOSIE) in the evaluation of positive and negative symptoms. Dingemans PM. **J Clin Psychol** 1990 Mar;46(2):168–74

Validation of depression measures in adolescent populations. Kauth MR, et al. **J Clin Psychol** 1990 May;46(3):291–5

Personality disorders among depressed outpatients as identified by the MCMI. Libb JW, et al. **J Clin Psychol** 1990 May;46(3):277–84

Identification of endogenous depression: a comparison of three diagnostic approaches. Modestin J, et al. **J Clin Psychol** 1990 May;46(3):300–5

The stability of the MCMI–II for psychiatric inpatients. Piersma HL. **J Clin Psychol** 1989 Sep;45(5):781–5

Reliability and factorial structure of the Chinese version of the Beck Depression Inventory. Shek DT. **J Clin Psychol** 1990 Jan;46(1):35–43

Anxiety and depression: discrete diagnostic entities? Liebowitz MR, et al. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):61S–66S (25 ref.)

The efficiency of depression questionnaires for case finding in primary medical care. Coulehan JL, et al. **J Gen Intern Med** 1989 Nov–Dec;4(6):541–7 (67 ref.)

The effect of age of onset on depression in the elderly. Herrmann N, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec;2(4):182–7

Psychopathology among cocaine abusers entering treatment. Kleinman PH, et al. **J Nerv Ment Dis** 1990 Jul;178(7):442–7

Comparison of early and late onset dysthymia. McCullough JP, et al. **J Nerv Ment Dis** 1990 Sep;178(9):577–81

Comparison of dysthymic major and nonmajor depressives. McCullough JP, et al. **J Nerv Ment Dis** 1990 Sep; 178(9):596–7

High incidence of endogenous depression in migraine: confirmation by tyramine test. Jarman J, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):573–5

Assessment of anomalous sentences repetition test. Rai GS, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):611–2

Family adaptation when one member has a head injury. Baker JE. **J Neurosci Nurs** 1990 Aug;22(4):232–7

Concurrent validation of Hutt's Bender Gestalt screening method for schizophrenia, depression, and brain damage. Lownsdale WS, et al. **J Pers Assess** 1989 Winter; 53(4):832–6

The Depressive Experiences Questionnaire: validity and psychological correlates in a clinical sample. Riley WT, et al. **J Pers Assess** 1990 Summer;54(3–4):523–33

Voluntary control of saccadic eye movements in patients with schizophrenic and affective disorders. Fukushima J, et al. **J Psychiatr Res** 1990;24(1):9–24

Depressed mood and major depressive disorder in two ethnic groups. Golding JM, et al. **J Psychiatr Res** 1990;24(1):65–82

The predictive power of the salivary cortisol dexamethasone suppression test for three–year outcome in major depressive illness. Mander AJ, et al. **J Psychiatr Res** 1989;23(2):151–6

Anhedonia, suicide ideation and dexamethasone nonsuppression in depressed patients. Oei TI, et al. **J Psychiatr Res** 1990;24(1):25–35

Evening urine cortisol excretion and DST results in depression and anorexia nervosa. Zis AP, et al. **J Psychiatr Res** 1989;23(3–4):251–5

The detection of depression and the financing of medical care [letter; comment] **JAMA** 1990 May 2;263(17):2298–300 Comment on: JAMA 1989 Dec 15;262(23):3298–302.

Detection of depressive disorder for patients receiving prepaid or fee–for–service care. Results from the Medical Outcomes Study [see comments] Wells KB, et al. **JAMA** 1989 Dec 15;262(23):3298–302 Comment in: JAMA 1990 May 2;263(17):2298–300.

Improving physicians' recognition and treatment of depression in general medical care. Results from a randomized clinical trial. Magruder–Habib K, et al. **Med Care** 1990 Mar;28(3):239–50

The serum creatine–kinase as a biologic marker in major depression. Băllăiță C, et al. **Neurol Psychiatr (Bucur)** 1990 Apr–Jun;28(2):127–34

Platelet [3H]–imipramine binding according to DSM–III subtypes of depression. Jeanningros R, et al. **Neuropsychobiology** 1989;22(1):33–40

Results of the 8 a.m. dexamethasone suppression test constitute a suitable tool for confirming the diagnosis of melancholia. A test unaffected by the variations in the bioavailability of dexamethasone. Maes M, et al. **Neuropsychobiology** 1989;22(1):26–32

Pharmacologic provocation and dexamethasone suppression test sensitivity. Swartz CM, et al. **Neuropsychobiology** 1989; 22(1):11–3

The classification of depressions and the activity profile of the antidepressants. Kielholz P. **Prog Neuropsychopharmacol** 1979;3(1–3):59–63 (4 ref.)

Depressive symptoms in acute schizophrenia. Montgomery SM. **Prog Neuropsychopharmacol** 1979;3(4):429–33

Comparison between Comprehensive Psychopathological Rating Scale (CPRS) and association for methodology and documentation in psychiatry (AMP) system. Woggon B. **Prog Neuropsychopharmacol** 1979;3(4):423–7

Measurement of anxiety and depression in children and adolescents. Roberts N, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):837–60 (56 ref.)

Differentiating anxiety and depression. Tollefson GD. **Psychiatr Med** 1990;8(2):27–39 (50 ref.)

Abnormal neuroendocrine responsivity to acute i.v. clomipramine challenge in depressed patients. Golden RN, et al. **Psychiatry Res** 1990 Jan;31(1):39–47

Neuroendocrine aspects of primary endogenous depression: IX. Receiver operating characteristic analysis of the dexamethasone suppression index vs. the dexamethasone suppression test in patients and controls. McCracken JT, et al. **Psychiatry Res** 1990 Jan;31(1):49–56

Sources of discrepancy in the comparison of a lay–administered diagnostic instrument with clinical diagnosis. McLeod JD, et al. **Psychiatry Res** 1990 Feb; 31(2):145–59

Using the CES–D scale to screen for depression and anxiety: effects of language and ethnic status. Roberts RE, et al. **Psychiatry Res** 1990 Jan;31(1):69–83

Computed tomography in depression: association between ventricular size and psychopathology. Schlegel S, et al. **Psychiatry Res** 1989 Aug;29(2):221–30

Specificity of plasma HVA response to dexamethasone in psychotic depression. Wolkowitz OM, et al. **Psychiatry Res** 1989 Aug;29(2):177–86

DST status and blood chemistries in prepubertal children. Yaylayan SA, et al. **Psychiatry Res** 1989 Aug;29(2):215–9

Psychometric evaluation of the Geriatric Depression Scale and the Zung Self–Rating Depression Scale using an elderly community sample. Dunn VK, et al. **Psychol Aging** 1989 Mar;4(1):125–6

Effect of instructional set on responses to the Geriatric Depression Scale. Dunn VK, et al. **Psychol Aging** 1988 Sep;3(3):315–6

Are old people more depressed? Cross–sectional data on Center for Epidemiological Studies Depression Scale factors. Gatz M, et al. **Psychol Aging** 1990 Jun;5(2):284–90

Alpha–2 adrenergic receptor function in post–stroke depression. Barry S, et al. **Psychol Med** 1990 May; 20(2):305–9

Reliability and validity of the Beck Depression Inventory for a white and Mexican–American gerontic population. Gatewood–Colwell G, et al. **Psychol Rep** 1989 Dec;65(3 Pt 2):1163–6

Malingering traumatic mental disorder on the Beck Depression Inventory: cancerphobia and toxic exposure. Lees–Haley PR. **Psychol Rep** 1989 Oct;65(2):623–6

Profile of Mood States: Australian normative data. Moore K, et al. **Psychol Rep** 1990 Apr;66(2):509–10

Psychopathology, temperament, and past course in primary major depressions. 2. Toward a redefinition of bipolarity with a new semistructured interview for depression. Cassano GB, et al. **Psychopathology** 1989;22(5):278–88

Are ratings of psychomotor retardation correlated with neuropsychological measurements? Schlegel S, et al. **Psychopathology** 1989;22(4):194–7

Diagnostic criteria for dysthymic disorder. Frances A, et al. **Psychopharmacol Bull** 1989;25(3):325–9 (12 ref.)

The Hamilton scales. **Psychopharmacol Ser** 1990;9:1–92

Psychometric developments of the Hamilton scales: the spectrum of depression, dysthymia, and anxiety. Bech P. **Psychopharmacol Ser** 1990;9:72–9 (39 ref.)

The impact of the Hamilton Rating Scale for Depression on the development of a center for clinical psychopharmacology research. Conti L, et al. **Psychopharmacol Ser** 1990;9:20–7

The Hamilton Depression Rating Scale in a WHO collaborative program. Gastpar M, et al. **Psychopharmacol Ser** 1990;9:10–9

The Hamilton Depression Scale and its alternatives: a comparison of their reliability and validity. Maier W. **Psychopharmacol Ser** 1990;9:64–71 (18 ref.)

Use of the Hamilton Depression Scale in general practice. Paykel ES. **Psychopharmacol Ser** 1990;9:40–7 (16 ref.)

French experiences with the Hamilton scales in comparison with other scales for depression and anxiety. Pull CB. **Psychopharmacol Ser** 1990;9:35–9 (11 ref.)

Symptomatology of late–life minor depression among primary care patients. Oxman TE, et al. **Psychosomatics**

1990 Spring;31(2):174–80
Patterns of depression in medical patients and their relationship with causal attributions for illness. Karanci NA. **Psychother Psychosom** 1988;50(4):207–15
Dementia and depression in elders with mental retardation: a pilot study. Harper DC, et al. **Res Dev Disabil** 1990; 11(2):177–98
Gender differences in affective, schizoaffective, and schizophrenic disorders. McGlashan TH, et al. **Schizophr Bull** 1990;16(2):319–29
The dexamethasone suppression test in depression—a Singapore study. Peh LH, et al. **Singapore Med J** 1990 Apr;31(2):147–52
Self-esteem and depression. 1. Measurement issues and prediction of onset. Brown GW, et al. **Soc Psychiatry Psychiatr Epidemiol** 1990 Jul;25(4):200–9
[Clinical differential diagnosis of depressive neurosis and neurasthenia] Liu ZZ, et al. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Oct; 22(5):274–7, 317 (Eng. Abstr.) (Chi)
[Measuring scales for anxiety and depression] Zitman FG, et al. **Ned Tijdschr Geneeskd** 1990 Apr 28;134(17):845–8 (Dut)
[New validation of the Montgomery and Asberg Depression Scale (MADRS) on a sample of 147 hospitalized depressed patients] Peyre F, et al. **Ann Med Psychol (Paris)** 1989 Sep; 147(7):762–7 (Fre)
[Endogenous depression and the Newcastle Index. I. Review of the literature] Peyre F, et al. **Ann Med Psychol (Paris)** 1989 Oct;147(8):858–61 (14 ref.) (Fre)
[Are depression perceived by the public and depression described by DSM–III the same?] Kovess V, et al. **Can J Psychiatry** 1989 Dec;34(9):913–20 (Eng. Abstr.) (Fre)
[Diagnostic criteria of depressive pseudodementia] Azorin JM, et al. **Encephale** 1990 Jan–Feb;16(1):31–4 (Eng. Abstr.) (Fre)
[Apropos of a probable case of Binswanger encephalopathy] Bovier P, et al. **Schweiz Arch Neurol Psychiatr** 1989; 140(4):337–43 (Eng. Abstr.) (Fre)
[Sleep in anorexia nervosa, bulimia nervosa and depressive diseases: a polysomnographic comparative study] Lauer C, et al. **Fortschr Neurol Psychiatr** 1989 Oct;57(10):403–10 (Eng. Abstr.) (Ger)
[Dysthymic disorders] Bronisch T. **Nervenarzt** 1990 Mar; 61(3):133–9 (48 ref.) (Ger)
[Percentile distribution of depression scales of the AMDP system] Reischies FM, et al. **Nervenarzt** 1990 Mar; 61(3):183–5 (Eng. Abstr.) (Ger)
[The Carroll Scale for Depression—the German version and validation] Merten T. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Jun;42(6):340–7 (Eng. Abstr.) (Ger)
[A case from practice (182).Severe neurotic depression] Fasnacht D. **Schweiz Rundsch Med Prax** 1990 Jun 19; 79(25):813–4 (Ger)
[Characteristics of depression in middle age] Gräsler W. **Z Gesamte Inn Med** 1989 Nov 1;44(21):646–9 (Eng. Abstr.) (Ger)
[Masked depression and internal medicine] Härtel F. **Z Gesamte Inn Med** 1989 Aug 1;44(15):457–61 (Eng. Abstr.) (Ger)
[The prognostic value of the dexamethasone suppression test for the course of anorexia nervosa—comparison with depressive diseases] Herpertz-Dahlmann B, et al. **Z Kinder Jugendpsychiatr** 1990 Mar;18(1):5–11 (Eng. Abstr.) (Ger)
[Markers of depressive mood in puberty using the Kovacs Children's Depression Inventory] Lobert W. **Z Kinder Jugendpsychiatr** 1989 Dec;17(4):194–201 (Eng. Abstr.) (Ger)
[Configuration cluster analysis as an alternative to configuration frequency analysis] Lienert GA, et al. **Z Klin Psychol Psychopathol Psychother** 1989;37(4):451–7 (Eng. Abstr.) (Ger)
[Pseudodementia. A critical review of the literature] Turrina C, et al. **Minerva Psichiatr** 1990 Jan–Mar;31(1):7–11 (18 ref.) (Eng. Abstr.) (Ita)
[Diagnostic and therapeutic difficulties in masked depression syndrome] Banaś A. **Psychiatr Pol** 1989 May–Jun; 23(3):244–7 (Pol)
[Clinical characteristics of late manifestations of recurrent depressive psychoses] Iakovleva OB. **Zh Nevropatol Psikhiatr** 1989;89(9):97–103 (Eng. Abstr.) (Rus)
[Use of various clinico-psychological methods in the differential diagnosis of depressive conditions] Kopytin AI. **Zh Nevropatol Psikhiatr** 1990;90(4):95–9 (Eng. Abstr.) (Rus)
[One of the variants of larvate cyclothymic disorder simulating pathology of the locomotor system] Lisina MA. **Zh Nevropatol Psikhiatr** 1990;90(3):86–91 (Eng. Abstr.) (Rus)
[The psychopathological structure of paroxysmal psychoautonomic disturbances and its importance for the differential diagnosis and prognosis of different forms of neuroses and depressions] Pankova OF, et al. **Zh Nevropatol Psikhiatr** 1990;90(5):64–9 (Eng. Abstr.) (Rus)
[Clinical variants of unipolar endogenous depression] Ulezko AV. **Zh Nevropatol Psikhiatr** 1990;90(4):61–6 (Eng. Abstr.) (Rus)
[The Cambridge Mental Disorders of the Elderly Examination. Study of interobserver reliability] Llinàs J, et al. **Neurologia** 1990 Apr;5(4):121–4 (Eng. Abstr.) (Spa)
[The Cambridge Mental Disorders of the Elderly Examination. Validation of the Spanish adaptation] Vilalta J, et al. **Neurologia** 1990 Apr;5(4):117–20 (Eng. Abstr.) (Spa)
[Usefulness of neuroendocrine function tests in the differential diagnosis of depression] Cervera S. **Rev Esp Fisiol** 1989; 45 Suppl:279–87 (Eng. Abstr.) (Spa)

DRUG THERAPY

Double blind comparison of alprazolam with dosulepine in endogenous depression. Češková E, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):290–1
Comparative study of levoprotiline and amitriptyline in endogenous depressions. Faltus F, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):279–80
Infusions of maprotiline in depressive out-patients. Libigerová E. **Act Nerv Super (Praha)** 1989 Dec;31(4):286–7
Position of levoprotiline in the treatment of acute endogenous depression. Náhunek K, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):280–1
A multicentre double-blind comparative trial of fluvoxamine versus lorazepam in mixed anxiety and depression treated in general practice. Laws D, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):185–9
Psychopathology during long-term lithium treatment of patients with major affective disorders. A prospective study. Nilsson A, et al. **Acta Psychiatr Scand** 1989 Oct; 80(4):375–88
A double-blind comparison of mianserin and maprotiline in depressed medically ill elderly people. Schifano F, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):289–94
A double-blind study to compare the effectiveness and tolerability of paroxetine and amitriptyline in depressed patients. Bascara L. **Acta Psychiatr Scand Suppl** 1989; 350:141–2
Meta-analysis of early phase II studies with paroxetine in hospitalized depressed patients. Byrne MM. **Acta Psychiatr Scand Suppl** 1989;350:138–9
The effect of paroxetine on the electroencephalogram, electrocardiogram, and blood pressure. Edwards JG, et al. **Acta Psychiatr Scand Suppl** 1989;350:124
Paroxetine in the treatment of depression: a comparison with imipramine and placebo. Feighner JP, et al. **Acta Psychiatr Scand Suppl** 1989;350:125–9
The therapeutic efficacy of paroxetine: (a) an open study in patients with major depression not responding to antidepressants; (b) a double-blind comparison with amitriptyline in depressed outpatients. Gagiano CA, et al. **Acta Psychiatr Scand Suppl** 1989;350:130–1
A double-blind, multicentre study of paroxetine versus clomipramine in depressed elderly patients. Guillibert E, et al. **Acta Psychiatr Scand Suppl** 1989;350:132–4
Antidepressants and the peripheral nervous system. Husstedt IW, et al. **Acta Psychiatr Scand Suppl** 1989;350:147–8
A double-blind study of the comparative antidepressant effect of paroxetine and amitriptyline. Kuhs H, et al. **Acta Psychiatr Scand Suppl** 1989;350:145–6
Introduction to the development of paroxetine, a novel antidepressant. Lassen JB. **Acta Psychiatr Scand Suppl** 1989; 350:13
Paroxetine: pharmacokinetic and antidepressant effect in the elderly. Lundmark J, et al. **Acta Psychiatr Scand Suppl** 1989;350:76–80
A double-blind, multicentre study of paroxetine and mianserin in depression. Mertens C, et al. **Acta Psychiatr Scand Suppl** 1989;350:140
A double-blind comparison of paroxetine and placebo in the treatment of depressed patients in a psychiatric outpatient clinic. Miller SM, et al. **Acta Psychiatr Scand Suppl** 1989; 350:143–4
New antidepressants and 5-HT uptake inhibitors. Montgomery SA. **Acta Psychiatr Scand Suppl** 1989; 350:107–16 (59 ref.)
A placebo-controlled, double-blind, clinical trial of paroxetine in depressed outpatients. Rickels K, et al. **Acta Psychiatr Scand Suppl** 1989;350:117–23
Platelet 5-HT transport in depressed patients under double-blind treatment with paroxetine versus amitriptyline. Schlake HP, et al. **Acta Psychiatr Scand Suppl** 1989;350:149–51
Treatment of anxiety/depressive conditions in the elderly: a double-blind comparative study of Motival and amitriptyline. Sinclair JM, et al. **Age Ageing** 1975 Nov; 4(4):226–31
New and future treatment of depression. Hooper JF. **Ala Med** 1989 Dec;59(6):23–5
Therapy of depressions in post-stroke patients. Balunov OA, et al. **Alaska Med** 1990 Jan–Mar;32(1):20–9 (Eng, Rus)
Amoxapine versus amitriptyline combined with perphenazine in the treatment of psychotic depression. Anton RF Jr, et al. **Am J Psychiatry** 1990 Sep;147(9):1203–8
T3 augmentation of a tricyclic antidepressant in a patient receiving T4 maintenance therapy [letter] Cooke RG. **Am J Psychiatry** 1990 Feb;147(2):255
Ritualistic use of fluoxetine by a former substance abuser [letter] Goldman MJ, et al. **Am J Psychiatry** 1990 Oct; 147(10):1377
Mania during fluoxetine treatment for recurrent depression [letter] Hon D, et al. **Am J Psychiatry** 1989 Dec; 146(12):1638–9
Oral S-adenosylmethionine in depression: a randomized, double-blind, placebo-controlled trial. Kagan BL, et al. **Am J Psychiatry** 1990 May;147(5):591–5
Response to treatment with antidepressants of patients with severe or moderate nonpsychotic depression and of patients with psychotic depression. Kocsis JH, et al. **Am J Psychiatry** 1990 May;147(5):621–4
Addition of lithium carbonate to carbamazepine: hematological and thyroid effects. Kramlinger KG, et al. **Am J Psychiatry** 1990 May;147(5):615–20
Effect of imipramine on depression and immune status in a sample of men with HIV infection. Rabkin JG, et al. **Am J Psychiatry** 1990 Apr;147(4):495–7
Platelet MAO inhibition, urinary MHPG, and leukocyte beta-adrenergic receptors in depressed patients treated with phenelzine. Sharma RP, et al. **Am J Psychiatry** 1990 Oct;147(10):1318–21
Treatment of depressed dementia patients [letter; comment] Walsh AC. **Am J Psychiatry** 1990 Jun;147(6):814 Comment on: Am J Psychiatry 1990 Jan;147(1):130–1.
Depression, antidepressants, and body weight change. Fernstrom MH. **Ann N Y Acad Sci** 1989;575:31–9; discussion 39–40 (18 ref.)
Serotonin-specific drugs for anxiety and depressive disorders. Charney DS, et al. **Annu Rev Med** 1990;41:437–46 (42 ref.)
Serotonin function and the mechanism of antidepressant action. Reversal of antidepressant-induced remission by rapid depletion of plasma tryptophan. Delgado PL, et al. **Arch Gen Psychiatry** 1990 May;47(5):411–8
Lithium treatment effect on serotonin function [letter; comment] Glue P, et al. **Arch Gen Psychiatry** 1990 Mar; 47(3):289–90 Comment on: Arch Gen Psychiatry 1989 Jan;46(1):13–9.
Antidepressants in 'depressed' schizophrenic inpatients. A controlled trial. Kramer MS, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):922–8
Depression in panic disorder and response to alprazolam therapy [letter] Pyke RE. **Arch Gen Psychiatry** 1989 Nov; 46(11):1053–4
Relevance of DMS–III depressive subtype and chronicity of antidepressant efficacy in atypical depression. Differential response to phenelzine, imipramine, and placebo. Stewart JW, et al. **Arch Gen Psychiatry** 1989 Dec; 46(12):1080–7
The drug-free period: a methodological issue. Asnis GM, et al. **Biol Psychiatry** 1990 Mar 15;27(6):657–60
L-tyrosine and L-tryptophan membrane transport in erythrocytes and antidepressant drug choice. Azorin JM, et al. **Biol Psychiatry** 1990 Apr 1;27(7):723–34
Lithium research: state of the art [editorial] Belmaker RH, et al. **Biol Psychiatry** 1990 Jun 15;27(12):1279–81
Changes in platelet 3H-imipramine binding with chronic imipramine treatment are not state-dependent. DeMet EM, et al. **Biol Psychiatry** 1989 Sep;26(5):478–88
Dopaminergic mechanism of imipramine action in an animal model of depression. Muscat R, et al. **Biol Psychiatry** 1990 Aug 1;28(3):223–30
The effect of oral dextroamphetamine on plasma cortisol in major depressive disorder. Myers ED. **Biol Psychiatry** 1989 Oct;26(6):634–6
Cortisol and growth hormone responses to the 5-HT1A agonist gepirone in depressed patients. Rausch JL, et al. **Biol Psychiatry** 1990 Jul 1;28(1):73–8
Electrocardiographic effects of amitriptyline in therapeutic doses on 24-hr monitoring (Holter) with correlation to plasma levels. Sirota P, et al. **Biol Psychiatry** 1990 May 1;27(9):1053–6
Clonidine, cortisol, panic disorder, and depression [letter; comment] Toutoungi M. **Biol Psychiatry** 1990 Apr 1; 27(7):802–4 Comment on: Biol Psychiatry 1988 Jul;24(3):322–30.
Sensation-Seeking Scale scores in treated geriatric depressives and controls. Young RC, et al. **Biol Psychiatry** 1989 Oct;26(6):643–6
Depression in childhood. 1. Drugs may be useful. Kaplan CA. **BMJ** 1990 May 12;300(6734):1260–1 (12 ref.)
Depression and the menopause [letter] Studd JW, et al. **BMJ** 1990 Jun 23;300(6740):1653
Lofepramine versus dothiepin in the treatment of depression in elderly patients. Fairbairn AF, et al. **Br J Clin Pract** 1989 Feb;43(2):55–60
Benzodiazepine research: current findings and practical consequences. Hayward P, et al. **Br J Clin Psychol** 1989 Nov;28 (Pt 4):307–27 (110 ref.)
A comparison of in-patient and out-patient prescribing. Anderson DN. **Br J Psychiatry** 1989 May;154:644–9
A study of the effects of desipramine treatment alone and in combination with L-triiodothyronine on 6-sulphatoxymelatonin excretion in depressed patients. Bearn J, et al. **Br J Psychiatry** 1989 Sep;155:341–7
Clinical assessment and performance tasks in depression: a comparison of amitriptyline and trazodone. Botros WA, et al. **Br J Psychiatry** 1989 Oct;155:479–82
The treatment of monodelusional psychosis associated with depression. Chiu S, et al. **Br J Psychiatry** 1990 Jan; 156:112–5
Treatment-resistant depressives [letter] Malizia AL. **Br J Psychiatry** 1990 Jul;157:145–6
Monoamine oxidase inhibitors: rehabilitation from recent

research? Nutt D, et al. **Br J Psychiatry** 1989 Mar; 154:287–91 (80 ref.)

The predictive value of the dexamethasone suppression test. A placebo-controlled study. Peselow ED, et al. **Br J Psychiatry** 1989 Nov;155:667–72

Alprazolam withdrawal symptoms [letter] Sasa H, et al. **Br J Psychiatry** 1990 Jul;157:154–5

Is diazepam an antidepressant? [letter] Tiller J, et al. **Br J Psychiatry** 1990 Jul;157:149

Is diazepam an antidepressant? [see comments] Tiller JW, et al. **Br J Psychiatry** 1989 Oct;155:483–9 Comment in: Br J Psychiatry 1990 Feb;156:279.

Efficacy of combined antidepressant therapy in resistant neurotic disorder. Tyrer P, et al. **Br J Psychiatry** 1990 Jan; 156:115–8

Minaprine: an anticholinergic-free antidepressant? Results of a controlled trial of mianserin. Wheatley D. **Br J Psychiatry** 1989 Jul;155:106–7

Two cases of agranulocytosis on addition of a butyrophenone to a long-standing course of phenothiazine treatment. Young A, et al. **Br J Psychiatry** 1989 May;154:710–2

Depression and reversible monoamine oxidase inhibitors—new perspectives. **Br J Psychiatry Suppl** 1989 Oct;(6):1–88

The antidepressant effects of 5-HT uptake inhibitors. Aberg-Wistedt A. **Br J Psychiatry Suppl** 1989 Dec; (8):32–40 (90 ref.)

Efficacy and tolerability of moclobemide compared with imipramine in depressive disorder (DSM-III): an Austrian double-blind, multicentre study. Baumhackl U, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):78–83

Tyramine and irreversible monoamine oxidase inhibitors in clinical practice. Cooper AJ. **Br J Psychiatry Suppl** 1989 Oct;(6):38–45 (37 ref.)

Effect of a reversible monoamine oxidase-A inhibitor (moclobemide) on sleep of depressed patients. Monti JM. **Br J Psychiatry Suppl** 1989 Oct;(6):61–5

A European study of views on the use of monoamine oxidase inhibitors. Paykel ES, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):9–17

Antidepressants of the future [editorial] Priest RG. **Br J Psychiatry Suppl** 1989 Oct;(6):7–8

Tyramine and new monoamine oxidase inhibitor drugs. Simpson GM, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):32–7 (58 ref.)

A double-blind comparative trial of moclobemide v. imipramine and placebo in major depressive episodes. Versiani M, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):72–7

Depressive stupor treated with intramuscular chlordesmethyldiazepam [letter] Benazzi F. **Can J Psychiatry** 1990 Apr;35(3):282

Antidepressants. Salzman C. **Clin Geriatr Med** 1990 May; 6(2):399–410 (33 ref.)

Amineptine and depression. An international experience. Istanbul, January 28, 1989. Proceedings. **Clin Neuropharmacol** 1989;12 Suppl 2:v–xii; S1–105

The efficacy of amineptine in the treatment of depressive patients with irritable bowel syndrome. Alevizos B, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S66–76

The beneficial effects of amineptine (Survector 100) in the treatment of depression: preliminary results of an Indian multicenter trial. Boral GC, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S51–7

Amineptine (Survector 100) in the treatment of depression in Brazil. Costa e Silva JA. **Clin Neuropharmacol** 1989;12 Suppl 2:S87–96

Inadequate dosing and pharmacokinetic variability as confounding factors in assessment of efficacy of antidepressants. Gram LF. **Clin Neuropharmacol** 1990;13 Suppl 1:S35–44 (30 ref.)

A multicenter Italian study of amineptine (Survector 100). Kemali D. **Clin Neuropharmacol** 1989;12 Suppl 2:S41–50

Depression in elderly people treated with amineptine (Survector 100): a synopsis. Marconi PL, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S97–105

A double-blind comparative study: amineptine (Survector 100) versus imipramine. Mendis N, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S58–65

Evaluation of the efficacy of amineptine in a population of 1,229 depressed patients: results of a multicenter study carried out by 135 general practitioners. Paes de Sousa M, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S77–86

Clovoxamine in the treatment of depressed outpatients: a double-blind, parallel-group comparison against amitriptyline and placebo. Gelenberg AJ, et al. **Compr Psychiatry** 1990 Jul–Aug;31(4):307–14

Is neuroleptic dysphoria a healthy response? Weiden PJ, et al. **Compr Psychiatry** 1989 Nov–Dec;30(6):546–52

Improving results with antidepressant drug therapy. Sussman N, et al. **Compr Ther** 1990 Feb;16(2):12–23

Primary care treatment of depression in the elderly: a double-blind, multi-centre study of flupenthixol ('Fluanxol') and sustained-release amitriptyline. Høstmaelingen HJ, et al. **Curr Med Res Opin** 1989; 11(9):593–9

A double-blind comparison of oral amitriptyline and low-dose intramuscular flupenthixol decanoate in depressive illness. Maragakis BP. **Curr Med Res Opin** 1990; 12(1):51–7

Partial proceedings of the symposium on trimipramine in depression and sleep disorders. Munich, 14 August 1988. **Drugs** 1989;38 Suppl 1:1–50

Comparative trial of trimipramine versus doxepin in depressed hospitalised patients. Assalian P, et al. **Drugs** 1989;38 Suppl 1:32–4; discussion 49–50

Clinical originality and new biology of trimipramine. Gastpar M. **Drugs** 1989;38 Suppl 1:43–8; discussion 49–50 (28 ref.)

A review of trimipramine. 30 years of clinical use. Lapierre YD. **Drugs** 1989;38 Suppl 1:17–24; discussion 49–50 (31 ref.)

Sleep polygraphic effects of trimipramine in depressed patients. Preliminary report. Mouret J, et al. **Drugs** 1989; 38 Suppl 1:14–6; discussion 49–50

Rapid eye movement sleep and sleep continuity. Depression and antidepressants. Nicholson AN, et al. **Drugs** 1989;38 Suppl 1:4–13; discussion 49–50 (48 ref.)

Trimipramine, anxiety, depression and sleep. Pecknold JC, et al. **Drugs** 1989;38 Suppl 1:25–31; discussion 49–50 (42 ref.)

Evaluation of the effects of L-acetylcarnitine on senile patients suffering from depression. Garzya G, et al. **Drugs Exp Clin Res** 1990;16(2):101–6

Antidepressant treatment response in depressed hypothyroid patients. Russ MJ, et al. **Hosp Community Psychiatry** 1989 Sep;40(9):954–6

Lithium as an adjunct in the treatment of major depression. Browne M, et al. **Int Clin Psychopharmacol** 1990 Apr; 5(2):103–10

The specificity of the zimelidine reaction. Montgomery SA, et al. **Int Clin Psychopharmacol** 1989 Jan;4(1):19–23

Pooling two controlled comparisons of milnacipran (F2207) and amitriptyline in endogenous inpatients. A new approach in dose ranging studies. von Frenckell R, et al. **Int Clin Psychopharmacol** 1990 Jan;5(1):49–56

Fluoxetine compared with amitriptyline in elderly depression: a controlled clinical trial. Altamura AC, et al. **Int J Clin Pharmacol Res** 1989;9(6):391–6

Psychiatric presentation of hyponatremia associated with the use of amitriptyline—a report of two cases. Henkin Y, et al. **Isr J Med Sci** 1989 Oct;25(10):587–9

Steady-state plasma levels during antidepressant therapy with amitriptyline and amitriptylinoxide. Koch H. **Isr J Psychiatry Relat Sci** 1990;27(1):48–56

Paroxetine: a selective serotonin reuptake inhibitor showing better tolerance, but weaker antidepressant effect than clomipramine in a controlled multicenter study. Danish University Antidepressant Group. **J Affective Disord** 1990 Apr;18(4):289–99

A comparison of the effect of fluoxetine and trazodone on the cognitive functioning of depressed outpatients. Fudge JL, et al. **J Affective Disord** 1990 Apr;18(4):275–80

Tyrosine for depression: a double-blind trial. Gelenberg AJ, et al. **J Affective Disord** 1990 Jun;19(2):125–32

Prediction of response of chronic depression to imipramine. Kocsis JH, et al. **J Affective Disord** 1989 Nov–Dec; 17(3):255–60

Plasma ratio tryptophan/neutral amino acids in relation to clinical response to paroxetine and clomipramine in patients with major depression. Møller SE, et al. **J Affective Disord** 1990 Jan;18(1):59–66

After lithium augmentation: a retrospective follow-up of patients with antidepressant-refractory depression. Nierenberg AA, et al. **J Affective Disord** 1990 Mar; 18(3):167–75

Antidepressant treatment and the occurrence of mania in bipolar patients admitted for depression. Solomon RL, et al. **J Affective Disord** 1990 Apr;18(4):253–7

Hair pulling [letter; comment] Friman PC, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May;29(3):489 Comment on: J Am Acad Child Adolesc Psychiatry 1989 Nov;28(6):952–3.

Imipramine treatment of trichotillomania and coexisting depression in a seven-year-old [see comments] Weller EB, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):952–3 Comment in: J Am Acad Child Adolesc Psychiatry 1990 May;29(3):489.

Toxicity resulting from lithium augmentation of antidepressant treatment in elderly patients. Austin LS, et al. **J Clin Psychiatry** 1990 Aug;51(8):344–5

Rapid response of patients simultaneously treated with lithium and nortriptyline. Austin LS, et al. **J Clin Psychiatry** 1990 Mar;51(3):124–5

Buspirone therapy for elderly patients with anxiety or depressive neurosis [letter] Böhm C, et al. **J Clin Psychiatry** 1990 Jul;51(7):309

MAO inhibition and clinical response in depressed patients treated with phenelzine. Bresnahan DB, et al. **J Clin Psychiatry** 1990 Feb;51(2):47–50

Bupropion dosing recommendations [letter] Davidson JR. **J Clin Psychiatry** 1990 Feb;51(2):83

The effect of nortriptyline in elderly patients with cardiac conduction disease. Dietch JT, et al. **J Clin Psychiatry** 1990 Feb;51(2):65–7

Winter depression responds to an open trial of tranylcypromine. Dilsaver SC, et al. **J Clin Psychiatry** 1990 Aug;51(8):326–9

Adverse consequences of fluoxetine-MAOI combination therapy. Feighner JP, et al. **J Clin Psychiatry** 1990 Jun; 51(6):222–5

Low-dose trazodone as a hypnotic in patients treated with MAOIs and other psychotropics: a pilot study. Jacobsen FM. **J Clin Psychiatry** 1990 Jul;51(7):298–302

Pharmacologic treatment of major depression for elderly patients in residential care settings. Katz IR, et al. **J Clin Psychiatry** 1990 Jul;51 Suppl:41–7; discussion 48

A fixed-dose (300 mg) efficacy study of bupropion and placebo in depressed outpatients. Lineberry CG, et al. **J Clin Psychiatry** 1990 May;51(5):194–9

The cost of antidepressant drug therapy failure: a study of antidepressant use patterns in a Medicaid population. McCombs JS, et al. **J Clin Psychiatry** 1990 Jun;51 Suppl:60–9; discussion 70–1

The effect of L-tryptophan on seasonal affective disorder. McGrath RE, et al. **J Clin Psychiatry** 1990 Apr;51(4):162–3

A double-blind, placebo-controlled trial of fluvoxamine versus imipramine in outpatients with major depression. March JS, et al. **J Clin Psychiatry** 1990 May;51(5):200–2

Treatment-resistant depression: definition and treatment approaches. Nierenberg AA, et al. **J Clin Psychiatry** 1990 Jun;51 Suppl:39–47; discussion 48–50 (108 ref.)

Interaction of fluoxetine with carbamazepine [letter; comment] Pearson HJ. **J Clin Psychiatry** 1990 Mar; 51(3):126 Comment on: J Clin Psychiatry 1989 Jun;50(6):226–7.

Anticholinergic antidepressants decrease marital hostility [letter] Sabelli HC. **J Clin Psychiatry** 1990 Mar;51(3):127–8

Practical considerations in the pharmacologic treatment of depression and anxiety in the elderly. Salzman C. **J Clin Psychiatry** 1990 Jan;51 Suppl:40–3 (33 ref.)

What constitutes an adequate antidepressant trial for fluoxetine? Schweizer E, et al. **J Clin Psychiatry** 1990 Jan; 51(1):8–11

Psychopharmacology of depression in neurologic disorders. Silver JM, et al. **J Clin Psychiatry** 1990 Jan;51 Suppl:33–9 (67 ref.)

Treatment of imipramine-resistant recurrent depression: I. An open clinical trial of adjunctive L-triiodothyronine. Thase ME, et al. **J Clin Psychiatry** 1989 Oct;50(10):385–8

Treatment of imipramine-resistant recurrent depression: II. An open clinical trial of lithium augmentation. Thase ME, et al. **J Clin Psychiatry** 1989 Nov;50(11):413–7

Worldwide use of clomipramine. Trimble MR. **J Clin Psychiatry** 1990 Aug;51 Suppl:51–4; discussion 55–8 (45 ref.)

Fluoxetine added to non-MAOI antidepressants converts nonresponders to responders: a preliminary report [see comments] Weilburg JB, et al. **J Clin Psychiatry** 1989 Dec; 50(12):447–9 Comment in: J Clin Psychiatry 1990 Jun;51(6):257.

Do volunteer subjects bias clinical trials? Amori G, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):321–7

Buspirone therapy in anxious elderly patients: a controlled clinical trial. Böhm C, et al. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):47S–51S

Fluoxetine drug-drug interactions. II. Ciraulo DA, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):213–7 (40 ref.)

Thyroid hormone supplementation of fluoxetine treatment [letter] Crowe D, et al. **J Clin Psychopharmacol** 1990 Apr; 10(2):150–1

Autoinduction of hypertensive reactions by tranylcypromine [letter] da Motta T, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):232

Primidone in drug-induced tremor [letter] Goumentouk AD, et al. **J Clin Psychopharmacol** 1989 Dec;9(6):451

Amphetamine, but not methylphenidate, predicts antidepressant response [letter; comment] Gwirtsman HE, et al. **J Clin Psychopharmacol** 1989 Dec;9(6):453–4 Comment on: J Clin Psychopharmacol 1988 Jun;8(3):177–83.

The effects of nortriptyline on cognition in elderly depressed patients [letter] Hoff AL, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):231–2

Gepirone in the treatment of major depression. Jenkins SW, et al. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):77S–85S

Sulpiride in the treatment of delusional depression [letter] Kaiya H, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):147

Rhabdomyolysis in a depressed patient following overdose with combined drug therapy and alcohol [letter] Lazarus A. **J Clin Psychopharmacol** 1990 Apr;10(2):154–5

Reversal of self-abusive behavior with naltrexone [letter] Lienemann J, et al. **J Clin Psychopharmacol** 1989 Dec; 9(6):448–9

Calcium channel blockers in affective illness: role of sodium-calcium exchange. el-Mallakh RS, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):203–6 (70 ref.)

Sleep disorders and depression with atypical features: response to valproate. Pies R, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):352–7

Efficacy of continuation drug therapy of depression and anxiety: issues and methodologies. Prien RF. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):86S–90S (37 ref.)

Clinical effects of the 5-HT1A partial agonists in depression: a composite analysis of buspirone in the treatment of depression. Robinson DS, et al. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):67S–76S

Carbamazepine in the prophylaxis of mood disorders. Stuppaeck C, et al. **J Clin Psychopharmacol** 1990 Feb; 10(1):39–42

Diurnal variation in methylphenidate stimulant response in major depression [letter] Swift RM. **J Clin Psychopharmacol** 1989 Dec;9(6):452

Delirium associated with bupropion [letter] van Putten T, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):234

Coexisting major depression and obsessive-compulsive disorder treated with venlafaxine [letter] Zajecka JM, et

al. **J Clin Psychopharmacol** 1990 Apr;10(2):152–3

Antidepressant use in elderly medical inpatients: lessons from an attempted clinical trial. Koenig HG, et al. **J Gen Intern Med** 1989 Nov–Dec;4(6):498–505

Fluoxetine versus trazodone in depressed geriatric patients. Falk WE, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec; 2(4):208–14

Two more cases of trazodone–related syncope in the elderly [letter] Nambudiri DE, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec;2(4):225

Triiodothyronine augmentation of the antidepressant effect of the nontricyclic antidepressant trazodone. Browne JL, et al. **J Nerv Ment Dis** 1990 Sep;178(9):598–9

Personality and response to tricyclic antidepressants in depressed patients. Joffe RT, et al. **J Nerv Ment Dis** 1989 Dec;177(12):745–9

Reversible MAO–A inhibitors as antidepressants. Basic advances and clinical perspectives. **J Neural Transm Suppl** 1989;28:1–106

An overview of monoamine oxidase inhibitors. Introductory remarks. Burrows D. **J Neural Transm Suppl** 1989;28:1–3 (5 ref.)

Moclobemide and maprotiline in the treatment of inpatients with major depressive disorder. Laux G, et al. **J Neural Transm Suppl** 1989;28:45–52

Therapeutic and side–effect profile of a selective and reversible MAO–A inhibitor, brofaromine. Results of dose–finding trials in depressed patients [published erratum appears in J Neural Transm Suppl 1989;78(3):281] Schiwy W, et al. **J Neural Transm Suppl** 1989;28:33–44

Review of comparative clinical trials. Moclobemide vs tricyclic antidepressants and vs placebo in depressive states. Stabl M, et al. **J Neural Transm Suppl** 1989;28:77–89 (45 ref.)

Moclobemide, imipramine, and placebo in the treatment of major depression (DSM III). Versiani M, et al. **J Neural Transm Suppl** 1989;28:65–75

Striatal dopamine D2 receptors in tardive dyskinesia: PET study. Blin J, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1248–52

Neuroleptic malignant syndrome: a case report with post–mortem brain and muscle pathology [see comments] Jones EM, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug; 52(8):1006–9 Comment in: J Neurol Neurosurg Psychiatry 1990 Mar;53(3):271.

New applications of lithium therapy. Murray JB. **J Psychol** 1990 Jan;124(1):55–73 (160 ref.)

Jerk–locked averaging and somatosensory evoked potential in tricyclic–induced myoclonus: a case report. Fukuzako H, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):645–9

Panic anxiety after abrupt discontinuation of mianserin. Kuniyoshi M, et al. **Jpn J Psychiatry Neurol** 1989 Jun; 43(2):155–9

Eosinophilia, myopathy, and neuropathy in a patient with repeated use of L–tryptophan. Goronzy JJ, et al. **Klin Wochenschr** 1990 Jul 17;68(14):735–8

5–HT blockers and all that [editorial] **Lancet** 1990 Aug 11; 336(8711):345–6

Relapse in chronic depressives on withdrawal of L–tryptophan [letter] Ferrier IN, et al. **Lancet** 1990 Aug 11;336(8711):380–1

Fluvoxamine: an antidepressant with low (or no) epileptogenic effect [letter] Harmant J, et al. **Lancet** 1990 Aug 11;336(8711):386

Bupropion for depression. **Med Lett Drugs Ther** 1989 Nov 3;31(804):97–8

Treating endogenous depression [letter] von Oldenburg A. **Milit Med** 1990 Mar;155(3):A8

Efficacy of tianeptine in anxious–depressed patients: results of a controlled multicenter trial versus amitriptyline. Guelfi JD, et al. **Neuropsychobiology** 1989;22(1):41–8

Double–blind placebo–controlled study of milnacipran in hospitalized patients with major depressive disorders. Macher JP, et al. **Neuropsychobiology** 1989;22(2):77–82

Investigations with the specific mu–opiate receptor agonist fentanyl in depressive patients: growth hormone, prolactin, cortisol, noradrenaline and euphoric responses. Matussek N, et al. **Neuropsychobiology** 1989;21(1):1–8

Drug effects on REM sleep and on endogenous depression. Vogel GW, et al. **Neurosci Biobehav Rev** 1990 Spring; 14(1):49–63 (269 ref.)

Antidepressant effects of rolipram in a genetic animal model of depression: cholinergic supersensitivity and weight gain. Overstreet DH, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):691–6

Fluoxetine and desipramine: a strategy for augmenting anti–depressant response. Eisen A. **Pharmacopsychiatry** 1989 Nov;22(6):272–3

Brofaromine (CGP 11 305 A) in treatment of depression: biological estimation of plasma concentrations. Fritze J, et al. **Pharmacopsychiatry** 1990 May;23(3):131–4

Treatment of depressions resistant to tricyclic antidepressants, related drugs or MAO–inhibitors by lithium addition: review of the literature. Schöpf J. **Pharmacopsychiatry** 1989 Sep;22(5):174–82 (111 ref.)

Treatment of endogenous depressions resistant to tricyclic antidepressants or related drugs by lithium addition. Results of a placebo–controlled double–blind study. Schöpf J, et al. **Pharmacopsychiatry** 1989 Sep;22(5):183–7

Maintaining remission in mood disorders. Livingston M. **Practitioner** 1989 Apr 8;233(1466):497–9

Maprotiline (Ludiomil) treatment of mental depression—a clinical report of 65 cases. Li SW, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(3):139–41

Pharmacokinetics and pharmacodynamics of amitriptyline in depression. Coppen A, et al. **Prog Neuropsychopharmacol** 1979;3(1–3):191–9

Clinical experience with fluotracen HCL: report of a case. Kulik FA, et al. **Prog Neuropsychopharmacol** 1979; 3(5–6):559–61

The role of plasma concentrations in the use of tricyclic antidepressant drugs. Levine RR. **Prog Neuropsychopharmacol** 1979;3(1–3):211–22 (25 ref.)

Monitoring of antidepressant drug plasma levels: the next ten years. Sjöqvist F. **Prog Neuropsychopharmacol** 1979; 3(1–3):201–10 (51 ref.)

Glycosaminoglycan polysulfate (Ateroid) in old–age dementias: effects upon depressive symptomatology in geriatric patients. Conti L, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):977–81

Long term treatment with oxaprotiline in patients with major depression. Katz RJ. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):875–83

Pharmacotherapy of affective disorders in children and adolescents. Lapierre YD, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):951–61 (48 ref.)

Investigations of morning and laboratory dream recall and content in depressive patients during baseline conditions and under antidepressive treatment with trimipramine. Riemann D, et al. **Psychiatr J Univ Ott** 1990 Jun;15(2):93–9

Therapeutic monitoring of treatment with antidepressants. Bourin MS, et al. **Psychiatr J Univ Ottawa** 1989 Sep; 14(3):460–2

Safety of maprotiline in treatment of cardiac patients with left anterior hemiblock. Ghadirian AM, et al. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):476–7

Effect of amitriptyline on endocrine responses to intravenous L–tryptophan. Cowen PJ, et al. **Psychiatry Res** 1990 Feb; 31(2):201–8

A comparison of triiodothyronine and thyroxine in the potentiation of tricyclic antidepressants. Joffe RT, et al. **Psychiatry Res** 1990 Jun;32(3):241–51

The antiobsessional effects of clomipramine do not require concomitant affective disorder. Katz RJ, et al. **Psychiatry Res** 1990 Feb;31(2):121–9

Antidepressant or antianxiety? A study of the efficacy of antidepressant medication. Kravitz HM, et al. **Psychiatry Res** 1990 May;32(2):141–9

Clomipramine and EEG sleep in depression. Kupfer DJ, et al. **Psychiatry Res** 1989 Nov;30(2):165–80

Diagnostic determinants of response to treatment with tricyclic antidepressants: a polydiagnostic approach. Maier W, et al. **Psychiatry Res** 1989 Oct;30(1):83–93

Effect of DSM–III personality disorders on outcome of tricyclic antidepressant–treated nonpsychotic outpatients with major or minor depressive disorder. Reich JH. **Psychiatry Res** 1990 May;32(2):175–81

The introductory placebo washout: a retrospective evaluation. Reimherr FW, et al. **Psychiatry Res** 1989 Nov; 30(2):191–9

Increased serum total cholesterol to HDL–cholesterol ratio after imipramine [letter] Yeragani VK, et al. **Psychiatry Res** 1990 May;32(2):207–9

The cardiovascular effects of antidepressants. Warrington SJ, et al. **Psychol Med Monogr Suppl** 1989;16:i–iii, 1–40 (425 ref.)

Dexamethasone kinetics in depressed patients before and after clinical response. Maguire KP, et al. **Psychoneuroendocrinology** 1990;15(2):113–23

Fluoxetine: relationships among dose, response, adverse events, and plasma concentrations in the treatment of depression. Beasley CM Jr, et al. **Psychopharmacol Bull** 1990;26(1):18–24

Double–blind comparison of 3– and 6–mg fixed doses of alprazolam vs. placebo in outpatients with major depressive disorder. Borison RL, et al. **Psychopharmacol Bull** 1989; 25(2):186–9

Placebo–controlled dose–ranging trial designs in phase II development of nefazodone. D'Amico MF, et al. **Psychopharmacol Bull** 1990;26(1):147–50

A comparison of nefazodone, imipramine, and placebo in patients with moderate to severe depression. Feighner JP, et al. **Psychopharmacol Bull** 1989;25(2):219–21

Double–blind placebo–controlled study of nortriptyline in depressed adolescents using a "fixed plasma level" design. Geller B, et al. **Psychopharmacol Bull** 1990;26(1):85–90

Prediction of short term outcome in schizophrenia: depressive symptoms, negative symptoms, and extrapyramidal signs. Treatment Strategies in Schizophrenia Collaborative Study Group. Glick ID, et al. **Psychopharmacol Bull** 1989;25(3):344–7

New issues in the prediction of antidepressant response. Kocsis JH. **Psychopharmacol Bull** 1990;26(1):49–53 (16 ref.)

The short– and long–term efficacy of paroxetine HCl: A. Data from a 6–week double–blind parallel design trial vs. imipramine and placebo. Peselow ED, et al. **Psychopharmacol Bull** 1989;25(2):267–71

The short– and long–term efficacy of paroxetine HCl: B. Data from a double–blind crossover study and from a year–long term trial vs. imipramine and placebo. Peselow ED, et al. **Psychopharmacol Bull** 1989;25(2):272–6

Pharmacotherapy of adolescent major depression: beyond TCAs. Ryan ND. **Psychopharmacol Bull** 1990;26(1):75–9 (28 ref.)

Adjunctive imipramine maintenance in post–psychotic depression/negative symptoms. Siris SG, et al. **Psychopharmacol Bull** 1990;26(1):91–4

The pharmacotherapy of depressive illness in adolescence: I. An open label trial of imipramine. Strober M, et al. **Psychopharmacol Bull** 1990;26(1):80–4

Theoretical and practical implications of a controlled trial of an alpha 2–adrenoceptor antagonist in the treatment of depression. Montgomery SA. **Psychopharmacol Ser** 1989; 7:105–8

Placebo–controlled studies in depression: necessity and feasibility. Paykel ES. **Psychopharmacol Ser** 1990;8:73–81 (13 ref.)

Plasma moclobemide and metabolites: lack of correlation with clinical response and biogenic amines. Fritze J, et al. **Psychopharmacology (Berlin)** 1989;99(2):252–6

Use of antidepressants in medically ill older patients. Koenig HG, et al. **Psychosomatics** 1990 Winter;31(1):22–32 (96 ref.)

Drug–drug interactions of fluoxetine with tricyclics. von Ammon Cavanaugh S. **Psychosomatics** 1990 Summer; 31(3):273–6

Use of fluoxetine in a person with cardiac arrhythmias [letter] Zarzar MN, et al. **Psychosomatics** 1990 Spring;31(2):235–6

Use of imipramine in children with intractable asthma and psychiatric disorders: a warning. Kanner AM, et al. **Psychother Psychosom** 1989;51(4):203–9

Effects on sleep: a double–blind study comparing trimipramine to imipramine in depressed insomniac patients. Ware JC, et al. **Sleep** 1989 Dec;12(6):537–49

Severe ischemia of the hand following intra–arterial promazine injection: effects of vasodilation, anticoagulation, and local thrombolysis with tissue–type plasminogen activator. Bounameaux H, et al. **Vasa** 1990; 19(1):68–71

[A double–blind comparison study of nomifensine and imipramine in treating depressed patients] Wang XJ. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):73–6, 125 (Eng. Abstr.) **(Chi)**

[Lithium in the treatment of depressed elderly patients] Bekker FM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 3; 134(9):442–5 (Eng. Abstr.) **(Dut)**

[Efficacy of antidepressants selected as a function of erythrocyte membrane transport and plasma levels of L–tyrosine and L–tryptophan] Bovier P, et al. **Acta Psychiatr Belg** 1988 Jul–Aug;88(4):303–12 (Eng. Abstr.) **(Fre)**

[Demethylation and blood dosage of antidepressive imipramine drugs. Preliminary note] Pascalis JG, et al. **Ann Med Psychol (Paris)** 1989 Oct;147(8):837–9; discussion 839–40 (Eng. Abstr.) **(Fre)**

[Long term depression] Prigent Y. **Ann Med Psychol (Paris)** 1989 Oct;147(8):785–99 (Eng. Abstr.) **(Fre)**

[The anti–koro effect of a tricyclic antidepressant] Turnier L, et al. **Can J Psychiatry** 1990 May;35(4):331–3 (Eng. Abstr.) **(Fre)**

[Recurrence of unipolar depression and efficacy of maprotiline] Rouillon F, et al. **Encephale** 1989 Nov–Dec; 15(6):527–34 (26 ref.) (Eng. Abstr.) **(Fre)**

[Patients treated for one year with tianeptine. Results at one of the centers of South–Eastern France] Souche A, et al. **Encephale** 1990 May–Jun;16(3):181–7 (Eng. Abstr.) **(Fre)**

[Potentiation of antidepressive treatment by thyroid hormone therapy. Review of the literature] Verdoux H, et al. **Encephale** 1989 Nov–Dec;15(6):517–22 (25 ref.) (Eng. Abstr.) **(Fre)**

[Preventive use of lithium in affective psychoses from the internal medicine viewpoint] Müller–Oerlinghausen B. **Internist (Berl)** 1990 Jul;31(7):456–67 (84 ref.) **(Ger)**

[Possibilities and risks of new attempts in the treatment of depression. Fluoxetine. A symposium for clinicians. 9–10 March 1990, Berlin] **Nervenarzt** 1990 Jun;61(6 Suppl):1–16 **(Ger)**

[New selective monoamine oxidase inhibitors in the treatment of depressive disorders] **Psychiatr Prax** 1989 Aug;16 Suppl 1:1–50 **(Ger)**

[Treatment of depression using MAO–A inhibitors: an open study of a direct switch from moclobemide to tri–/tetracyclic antidepressants] Becker T, et al. **Psychiatr Prax** 1989 Aug;16 Suppl 1:44–7 (Eng. Abstr.) **(Ger)**

[Moclobemide in the long–term treatment of depressed patients] Carl G, et al. **Psychiatr Prax** 1989 Aug;16 Suppl 1:48–50 (Eng. Abstr.) **(Ger)**

[Psychometric findings in treatment using the selective MAO–A inhibitors moclobemide and maprotiline] Classen W. **Psychiatr Prax** 1989 Aug;16 Suppl 1:41–3 (Eng. Abstr.) **(Ger)**

[Moclobemide in the treatment of depression—an overview] Laux G. **Psychiatr Prax** 1989 Aug;16 Suppl 1:37–40 (13 ref.) (Eng. Abstr.) **(Ger)**

[Brofaromine—a selective, reversible and short–acting MAO–A inhibitor] Möller HJ, et al. **Psychiatr Prax** 1989 Aug;16 Suppl 1:32–6 (7 ref.) (Eng. Abstr.) **(Ger)**

[Indications for therapy using MAO inhibitors] Schmauss M, et al. **Psychiatr Prax** 1989 Aug;16 Suppl 1:2–6 (68 ref.) (Eng. Abstr.) **(Ger)**

[Intravenous versus oral treatment of endogenously depressed patients with doxepin—a double–blind study with plasma

level determination] Laux G, et al. **Wien Med Wochenschr** 1989 Nov 30;139(22):525–9 (Eng. Abstr.) **(Ger)**

[Mononucleosis syndrome with hypersensitivity hepatitis following carbamazepine administration] Hintsche-Kilger BB, et al. **Z Arztl Fortbild (Jena)** 1990;84(11):551–3 **(Ger)**

[Diagnostic and therapeutic considerations on agitated depression understood as a mixed affective state] Koukopoulos A, et al. **Minerva Psichiatr** 1989 Oct–Dec; 30(4):283–6 (Eng. Abstr.) **(Ita)**

[Treatment of periodic depressive disorders in adolescents and prevention of recurrence] Abe K, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):638–41 **(Jpn)**

[Neuroendocrinologic study of depressive disorders—with special reference to gonadal functions] Koshikawa N, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):622–7 **(Jpn)**

[Introduction of chronopharmacologic therapy of depressive disorders—a double-blind study using clomipramine] Nagayama H, et al. **Seishin Shinkeigaku Zasshi** 1989; 91(9):642–7 **(Jpn)**

[Various hemodynamic indicators in patients with endogenous depression before and during amitriptyline treatment] Magiera P, et al. **Psychiatr Pol** 1989 Jan–Feb; 23(1):18–23 (Eng. Abstr.) **(Pol)**

[Clinical evaluation of Hydiphen in the treatment of endogenous depression] Nowakowska C, et al. **Psychiatr Pol** 1989 Jan–Feb;23(1):10–7 (Eng. Abstr.) **(Pol)**

[Comparative clinico-therapeutic study of amitriptyline hydrochloride (Tryptizol/amitriptyline)] Pirozynski T, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jan–Mar; 93(1):91–102 (Eng. Abstr.) **(Rum)**

[The treatment of depressive states with opipramol (Insidon—Geigy)] Pirozynski T, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jan–Mar;93(1):103–8 (Eng. Abstr.) **(Rum)**

[The use of melipramine in treating patients with a depressive syndrome accompanied by motor retardation] Bacherikov NE, et al. **Vrach Delo** 1989 Oct;(10):96–9 (Eng. Abstr.) **(Rus)**

[EEG factor analysis in the treatment with antidepressants] Bochkarev VK, et al. **Zh Nevropatol Psikhiatr** 1989; 89(10):120–5 (Eng. Abstr.) **(Rus)**

[Activity of platelet serotonin receptors of patients with endogenous depression before and after treatment with antidepressive agents] Katasonov AB, et al. **Zh Nevropatol Psikhiatr** 1989;89(12):75–8 (Eng. Abstr.) **(Rus)**

[Treatment of drug-resistant depression by intravenous administration of antidepressants] Kielholz P. **Zh Nevropatol Psikhiatr** 1990;90(4):53–6 (Eng. Abstr.) **(Rus)**

[Comparative effectiveness of mianserin and pyrazidol in endogenous depression] Mosolov SN, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):108–14 (Eng. Abstr.) **(Rus)**

[Clinical and therapeutic evaluation of atypical antidepressants] Panteleeva GP, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):115–9 (Eng. Abstr.) **(Rus)**

ECONOMICS

Cost of depression in the 1990s and the benefits of appropriate treatment. Symposium. Dallas, Texas, February 1–3, 1990. **J Clin Psychiatry** 1990 Jun;51 Suppl:1–81

ENZYMOLOGY

Serum dopamine-beta-hydroxylase activity in psychotic and nonpsychotic major depression: the importance of distinguishing between unipolar and bipolar disorder [letter] Rihmer Z, et al. **Acta Psychiatr Scand** 1990 Jul; 82(1):93–4

Erythrocyte acetyl cholinesterase in elderly patients with dementia and depression compared with normal controls. McWilliam C, et al. **Age Ageing** 1990 Mar;19(2):104–6

Erythrocyte membrane Na-K ATPase activity in affective disorder. Reddy PL, et al. **Biol Psychiatry** 1989 Sep; 26(5):533–7

Deficient erythrocyte NaK-ATPase activity in different affective states in bipolar affective disorder and normalization by lithium therapy. Hokin-Neaverson M, et al. **Neuropsychobiology** 1989;22(1):18–25

Depression and monoamine oxidase. Coper H, et al. **Prog Neuropsychopharmacol** 1979;3(5–6):441–63

[ATPase activity, endogenous depression, lithotherapy and electroconvulsive therapy] Sikora J, et al. **Cesk Psychiatr** 1989 Dec;85(6):361–7 (Eng. Abstr.) **(Cze)**

EPIDEMIOLOGY

Seasonal mood variation: an epidemiological study in northern Norway. Haggag A, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):141–5

Depressive disorder in elderly Chinese people. Kua EH. **Acta Psychiatr Scand** 1990 Apr;81(4):386–8

Dementia, depression and physical disability in a London borough: a survey of elderly people in and out of residential care and implications for future developments. Harrison R, et al. **Age Ageing** 1990 Mar;19(2):97–103

Screening for depressive disorder in children and adolescents: validating the Center for Epidemiologic Studies Depression Scale for Children. Fendrich M, et al. **Am J Epidemiol** 1990 Mar;131(3):538–51

Dementia with coexistent major depression. Greenwald BS, et al. **Am J Psychiatry** 1989 Nov;146(11):1472–8

Depression and posttraumatic stress disorder in Southeast Asian refugees. Kroll J, et al. **Am J Psychiatry** 1989 Dec; 146(12):1592–7

Syndrome comorbidity in patients with major depression or dysthymia: prevalence and temporal relationships. Sanderson WC, et al. **Am J Psychiatry** 1990 Aug; 147(8):1025–8

Panic disorder, comorbidity, and suicide attempts. Johnson J, et al. **Arch Gen Psychiatry** 1990 Sep;47(9):805–8

Jewish depressives [letter] **Br J Psychiatry** 1990 Jul;157:146–8

DSM-III major depressive disorder in the community. A latent class analysis of data from the NIMH epidemiologic catchment area programme. Eaton WW, et al. **Br J Psychiatry** 1989 Jul;155:48–54

Prevalence of childhood and adolescent depression in the community. Ontario Child Health Study. Fleming JE, et al. **Br J Psychiatry** 1989 Nov;155:647–54

Anxiety and depression in a village in Lesotho, Africa: a comparison with the United States. Hollifield M, et al. **Br J Psychiatry** 1990 Mar;156:343–50

The Guy's/Age Concern survey. Prevalence rates of cognitive impairment, depression and anxiety in an urban elderly community. Lindesay J, et al. **Br J Psychiatry** 1989 Sep;155:317–29

Prodromes of depression and anxiety. The Stirling County study. Murphy JM, et al. **Br J Psychiatry** 1989 Oct; 155:490–5

A prospective study of first-incidence depression. The Lundby study, 1957–72. Rorsman B, et al. **Br J Psychiatry** 1990 Mar;156:336–42

Depression in the community: findings from the Stirling County Study. Murphy JM. **Can J Psychiatry** 1990 Jun; 35(5):390–6

Depression in Turkey in the 1980s: epidemiological and clinical approaches. Küey L, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S1–12 (62 ref.)

The Zurich Study. IX. Panic disorder and sporadic panic: symptoms, diagnosis, prevalence, and overlap with depression. Vollrath M, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(4):221–30

Referral patterns of elderly patients with dementia or depression. McColl JH, et al. **Health Bull (Edinb)** 1989 Nov; 47(6):273–81

Controlled prospective study of postpartum mood disorders: comparison of childbearing and nonchildbearing women. O'Hara MW, et al. **J Abnorm Psychol** 1990 Feb;99(1):3–15

Nonpsychotic postpartum depression among adolescent mothers. Troutman BR, et al. **J Abnorm Psychol** 1990 Feb; 99(1):69–78

Birth cohort trends in major depression: increasing rates and earlier onset in New Zealand. Joyce PR, et al. **J Affective Disord** 1990 Feb;18(2):83–9

Sex differences in the lifetime prevalence of depression: does varying the diagnostic criteria reduce the female/male ratio? Young MA, et al. **J Affective Disord** 1990 Mar; 18(3):187–92

Depression and anxiety in pediatric inflammatory bowel disease and cystic fibrosis. Burke P, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):948–51

Epidemiology of childhood depressive disorders: a critical review. Fleming JE, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):571–80 (72 ref.)

A longitudinal study of depressive symptomatology in young adolescents. Garrison CZ, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):581–5

DSM-III disorders in a large sample of adolescents. McGee R, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul; 29(4):611–9

A questionnaire investigation of anxiety and depression in early dementia. Wands K, et al. **J Am Geriatr Soc** 1990 May;38(5):535–8

The role of rating scales in the identification and management of the depressed patient in the primary care setting. Zung WW. **J Clin Psychiatry** 1990 Jun;51 Suppl:72–6 (23 ref.)

The comorbidity of anxiety and depression in general medical patients: a longitudinal study. Zung WW, et al. **J Clin Psychiatry** 1990 Jun;51 Suppl:77–80; discussion 81

Prevalence of depression among Israeli alcoholics. Backon J. **J Clin Psychol** 1990 Jan;46(1):96–102

The epidemiology of depression in late life [see comments] Blazer D. **J Geriatr Psychiatry** 1989;22(1):35–52 (37 ref.) Comment in: J Geriatr Psychiatry 1989;22(1):67–75.

The epidemiologic face of late-life depression [comment] Murphy JM. **J Geriatr Psychiatry** 1989;22(1):67–75 Comment on: J Geriatr Psychiatry 1989;22(1):35–52. Comment on: J Geriatr Psychiatry 1989;22(1):53–65.

Effects of job stress on occurrence of major depression in Japanese industry: a case-control study nested in a cohort study. Kawakami N, et al. **J Occup Med** 1990 Aug; 32(8):722–5

Epidemiology of affective and anxiety disorders in children and adolescents. Stavrakaki C, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):791–802 (49 ref.)

Prevalence of seasonal affective disorder at four latitudes. Rosen LN, et al. **Psychiatry Res** 1990 Feb;31(2):131–44

Relation of age at onset to duration of episode in unipolar depression. Lewinsohn PM, et al. **Psychol Aging** 1986 Mar; 1(1):63–8

Aging and depression. Newmann JP. **Psychol Aging** 1989 Jun;4(2):150–65 (74 ref.)

Epidemiology and seasonal affective disorder. Eastwood MR, et al. **Psychol Med** 1988 Nov;18(4):799–806 (53 ref.)

The contribution of childbearing to the sex difference in first admission rates for affective psychosis. Gater RA, et al. **Psychol Med** 1989 Aug;19(3):719–24

The Gospel Oak Study: prevalence rates of dementia, depression and activity limitation among elderly residents in inner London. Livingston G, et al. **Psychol Med** 1990 Feb;20(1):137–46

Changes in resident mix in nursing homes: cognitive and sensory data from a (redesigned) sampling plan. Abraham IL, et al. **Psychol Rep** 1990 Apr;66(2):547–50

If women are more often depressed, why don't more of them kill themselves? Lester D. **Psychol Rep** 1990 Feb;66(1):258

Sex differences in rates of depressive disorder and suicide. Lester D. **Psychol Rep** 1989 Oct;65(2):642

The health of elderly Chinese living in the community. Kua EH. **Singapore Med J** 1990 Apr;31(2):111–5

The prevalence of psychiatric morbidity among people aged 85 and over living at home. Associations with reported somatic symptoms and with consulting behaviour. Bowling A. **Soc Psychiatry Psychiatr Epidemiol** 1990 May; 25(3):132–40

Post hospital depression and the elderly cardiac patient. Morro BC. **Soc Work Health Care** 1989;14(2):59–66

Delusional depression in the elderly: a community study. Kivelä SL, et al. **Z Gerontol** 1989 Sep–Oct;22(5):236–41

[10 years' comparison of inpatient treated affective diseases] Wenzel R, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Feb;42(2):113–9 (Eng. Abstr.) **(Ger)**

[Maternity blues and post-partum depressive disorders—with special reference to clinical statistics and endocrinologic studies] Okano T, et al. **Seishin Shinkeigaku Zasshi** 1989; 91(9):628–33 **(Jpn)**

ETHNOLOGY

Symptoms and social adjustment in Jewish depressives. Ball RA, et al. **Br J Psychiatry** 1990 Mar;156:379–83

Perspectives on depression among black Americans. Fellin P. **Health Soc Work** 1989 Nov;14(4):245–52

ETIOLOGY

Psychiatric syndromes linked to reproductive function in women: a review of current knowledge [see comments] Gitlin MJ, et al. **Am J Psychiatry** 1989 Nov;146(11):1413–22 (99 ref.) Comment in: Am J Psychiatry 1990 Jul;147(7):957–8.

Treatment of depressed tinnitus patients with nortriptyline. Sullivan MD, et al. **Ann Otol Rhinol Laryngol** 1989 Nov; 98(11):867–72

Depression in late life: an update. Blazer D. **Ann Rev Gerontol Geriatr** 1989;9:197–215 (56 ref.)

Do winter depressives experience summer nights in winter? [letter] Beersma DG. **Arch Gen Psychiatry** 1990 Sep; 47(9):879–80

Are deficient retinal photoreceptor renewal mechanisms involved in the pathogenesis of winter depression? [letter] Remé C, et al. **Arch Gen Psychiatry** 1990 Sep;47(9):878–9

Age of onset of depression in the elderly [letter] Baldwin B. **Br J Psychiatry** 1990 Mar;156:445–6

Motherhood, employment and the development of depression. A replication of a finding? Brown GW, et al. **Br J Psychiatry** 1990 Feb;156:169–79

Malaria presenting as atypical depression [letter] Prakash MV, et al. **Br J Psychiatry** 1990 Apr;156:594–5

Psychophysiologic aspects of dyspnea in chronic obstructive pulmonary disease: a pilot study. Gift AG, et al. **Heart Lung** 1990 May;19(3):252–7

Early dementia as a risk factor for suicide. Margo GM, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):676–8

Characterizing life events as risk factors for depression: the role of fateful loss events. Shrout PE, et al. **J Abnorm Psychol** 1989 Nov;98(4):460–7

Bereavement and depression. Clayton PJ. **J Clin Psychiatry** 1990 Jul;51 Suppl:34–8; discussion 39–40 (23 ref.)

Depression and the cancer patient. Massie MJ, et al. **J Clin Psychiatry** 1990 Jul;51 Suppl:12–7; discussion 18–9 (36 ref.)

Depression in the patient with Parkinson's disease. Mayeux R. **J Clin Psychiatry** 1990 Jul;51 Suppl:20–3; discussion 24–5 (34 ref.)

Depression and cerebrovascular disease. Robinson RG, et al. **J Clin Psychiatry** 1990 Jul;51 Suppl:26–31; discussion 32–3 (18 ref.)

Seasonal affective disorder and visual impairment: two case studies. Rosenthal NE, et al. **J Clin Psychiatry** 1989 Dec; 50(12):469–72

Major depression and depressive symptomatology among the physically disabled. Assessing the role of chronic stress. Turner RJ, et al. **J Nerv Ment Dis** 1990 Jun;178(6):343–50

Renal transplantation: psychiatric aspects and interventions. Iwashige T, et al. **Jpn J Psychiatry Neurol** 1990 Mar; 44(1):7–18

The naturally occurring rhythm of blues: winter depression. Dilsaver SC, et al. **Ohio Med** 1990 Jan;86(1):58–61

Disorders related to depression [letter] Pokornowski RF.

Postgrad Med 1990 Jul;88(1):49–50
Is living in a slab block depressing? Masters N, et al. **Practitioner** 1989 May 8;233(1468):664–6
Depression in torticollis: a controlled study. Jahanshahi M, et al. **Psychol Med** 1988 Nov;18(4):925–33
The sporadic v. familial classification given aetiological heterogeneity: II. Power analyses. Kendler KS. **Psychol Med** 1988 Nov;18(4):991–9
Differential diagnosis and treatment of depressive features in Down's syndrome: a case illustration. Storm W. **Res Dev Disabil** 1990;11(2):131–7
Lighting. Nonvisual effects. Wetterberg L. **Scand J Work Environ Health** 1990;16 Suppl 1:26–8
The biocultural context of social networks and depression among the elderly. Palinkas LA, et al. **Soc Sci Med** 1990; 30(4):441–7
[Affective disturbances in patients with breast cancer] Liu Z, et al. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):363–5, 383–4 (Eng. Abstr.) **(Chi)**
[Mood disorders and right hemisphere infarction] Danel T, et al. **Encephale** 1989 Nov–Dec;15(6):549–53 (32 ref.) (Eng. Abstr.) **(Fre)**
[Organically-induced depression] Tölle R. **Nervenarzt** 1990 Mar;61(3):176–82 (44 ref.) **(Ger)**
[Neuroendocrine changes and affective disorders in patients with hyperphagic obesity] Giovannini C, et al. **Recenti Prog Med** 1990 Feb;81(2):124–7 (Eng. Abstr.) **(Ita)**
[Cerebral disorders in Cushing's syndrome] Kotov SV, et al. **Sov Med** 1990;(1):57–60 **(Rus)**
[The clinical course of schizophrenia associated with aaesthetic depression] Baranov PA. **Zh Nevropatol Psikhiatr** 1990;90(1):75–80 (Eng. Abstr.) **(Rus)**
[Psychiatric manifestations as the presenting form of primary cerebral tumor (letter)] Fornés L, et al. **Rev Clin Esp** 1990 Mar;186(4):194–5 **(Spa)**
[Depression in cerebrovascular disorders: a prospective study and the effect of maprotiline therapy] Fonck ML, et al. **Rev Med Chil** 1988 Sep;116(9):887–94 (Eng. Abstr.) **(Spa)**

GENETICS

A possible model for the genetics of certain diseases. Brown DW. **Acta Biotheor (Leiden)** 1990 Mar;38(1):73
Association between family history of affective disorder and the depressive syndrome of Alzheimer's disease. Pearlson GD, et al. **Am J Psychiatry** 1990 Apr;147(4):452–6
Comorbidity of major depression and anxiety disorders in twin pairs. Torgersen S. **Am J Psychiatry** 1990 Sep; 147(9):1199–202
Confirmation of the relationship of HLA (chromosome 6) genes to depression and manic depression. II. The Ontario follow-up and analysis of 117 kindreds. Stancer HC, et al. **Ann Hum Genet** 1988 Oct;52 (Pt 4):279–98
Electrodermal activity in young adults at genetic risk for affective disorder. Zahn TP, et al. **Arch Gen Psychiatry** 1989 Dec;46(12):1120–4
Premenstrual syndrome in three generations responds to antidepressants. Taghavi E. **Aust N Z J Psychiatry** 1990 Jun;24(2):276–9
HLA antigens in depression and hypersomnia. Montplaisir J, et al. **Biol Psychiatry** 1990 Mar 15;27(6):664–6
Evidence against close linkage of unipolar affective illness to human chromosome 11p markers HRAS1 and INS and chromosome Xq marker DXS52. Neiswanger K, et al. **Biol Psychiatry** 1990 Jul 1;28(1):63–72
The Camberwell Collaborative Depression Study [letter; comment] Craig TK, et al. **Br J Psychiatry** 1989 Apr; 154:564–5 Comment on: Br J Psychiatry 1988 Jun;152:775–82.
The genetics of depression and manic-depressive disorder. McGuffin P, et al. **Br J Psychiatry** 1989 Sep;155:294–304 (73 ref.)
The genetics of depression: current approaches. McGuffin P, et al. **Br J Psychiatry Suppl** 1989 Oct;(6):18–26 (44 ref.)
A controlled study of phenomenology and family history in outpatients with bulimia nervosa. Keck PE Jr, et al. **Compr Psychiatry** 1990 Jul–Aug;31(4):275–83
Linkage of c-Harvey-ras-1 and INS DNA markers to unipolar depression and alcoholism is ruled out in 18 families. Wesner RB, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):356–60
Children of psychiatrically ill parents: a prevention perspective. Silverman MM. **Hosp Community Psychiatry** 1989 Dec;40(12):1257–65 (60 ref.)
Anhedonia and perceptual aberration in first-episode psychotic patients and their relatives. Katsanis J, et al. **J Abnorm Psychol** 1990 May;99(2):202–6
The genetics of neurotic-reactive depression: a reanalysis of Shapiro's (1970) twin study using diagnostic criteria. Englund SA, et al. **J Affective Disord** 1990 Apr; 18(4):247–52
Attention deficit disorder in children at risk for anxiety and depression. McClellan JM, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):534–9
Early onset psychiatric disorder in high risk children and increased familial morbidity. Orvaschel H. **J Am Acad Child Adolesc Psychiatry** 1990 Mar;29(2):184–8
Phenylthiocarbamide (PTC) tasting, genetics, and depression. Whitemore PB. **J Clin Psychol** 1990 May;46(3):262–72
Segregation and linkage analyses of bipolar and major depressive illnesses in multigenerational pedigrees. Cox N, et al. **J Psychiatr Res** 1989;23(2):109–23
Linkage analysis of pure depressive disease. Tanna VL, et al. **J Psychiatr Res** 1989;23(2):99–107
REM sleep latency and morbidity risk of affective disorders in depressive illness. Mendlewicz J, et al. **Neuropsychobiology** 1989;22(1):14–7
Alpha-2-adrenoreceptor binding as a possible vulnerability marker for affective disorders. Mendlewicz J, et al. **Neuropsychobiology** 1989;22(2):61–7
Genetic markers in depressive disorders. Winokur G. **Prog Neuropsychopharmacol** 1979;3(5–6):625–30 (11 ref.)
RFLP alleles at the tyrosine hydroxylase locus: no association found to affective disorders. Körner J, et al. **Psychiatry Res** 1990 Jun;32(3):275–80
Genetic transmission of major affective disorders: quantitative models and linkage analyses. Faraone SV, et al. **Psychol Bull** 1990 Jul;108(1):109–27 (160 ref.)
[An unusual speech disorder in endogenous depression] Becker H. **Nervenarzt** 1989 Dec;60(12):757–8 **(Ger)**
[Contribution of genetics to research in the etiology of depressive diseases] Maier W. **Z Klin Psychol Psychopathol Psychother** 1990;38(1):37–45 (26 ref.) (Eng. Abstr.) **(Ger)**

HISTORY

The case of the Wolf-Man [letter; comment] Abrahamson D. **Am J Psychiatry** 1990 Jul;147(7):959–60 Comment on: Am J Psychiatry 1989 Nov;146(11):1394–403.
Historical melancholia [letter; comment] Frosch WA. **Br J Psychiatry** 1989 Nov;155:713 Comment on: Br J Psychiatry 1988 Sep;153:298–304.

IMMUNOLOGY

Lymphocyte function in major depression. Altshuler LL, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):132–6
Lymphocyte mitogenesis, immunoglobulin and complement levels in depressed patients and normal controls. Kronfol Z, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):142–7
Major depressive disorder, alcoholism, and reduced natural killer cell cytotoxicity. Role of severity of depressive symptoms and alcohol consumption. Irwin M, et al. **Arch Gen Psychiatry** 1990 Aug;47(8):713–9
Is decreased imipramine binding by platelet membranes in major depression associated with plasma autoantibodies to imipramine binding sites? Alosachie I, et al. **Biol Psychiatry** 1990 Aug 15;28(4):365–8
Reduction of immune function in life stress and depression. Irwin M, et al. **Biol Psychiatry** 1990 Jan 1;27(1):22–30
Natural killer cell activity in depressive illness: preliminary report. Kronfol Z, et al. **Biol Psychiatry** 1989 Nov; 26(7):753–6
A study of the complement system in psychiatric patients. Spivak B, et al. **Biol Psychiatry** 1989 Oct;26(6):640–2
Lymphocyte subpopulations in depressed elderly women. Targum SD, et al. **Biol Psychiatry** 1989 Oct;26(6):581–9
Impaired lymphocyte stimulation by mitogens in severely depressed patients. A complex interface with HPA-axis hyperfunction, noradrenergic activity and the ageing process. Maes M, et al. **Br J Psychiatry** 1989 Dec;155:793–8
Measurement of cortisol and lymphocyte subpopulations in depressed and conduct-disordered adolescents. Targum SD, et al. **J Affective Disord** 1990 Feb;18(2):91–6
Unusual lymphocyte subset distribution in some depressed patients. Wilson SN, et al. **J Clin Psychiatry** 1990 Feb; 51(2):51–2
Postviral fatigue syndrome and the VP-1 antigen [letter; comment] Lynch S, et al. **Lancet** 1989 Nov 11; 2(8672):1160–1 Comment on: Lancet 1989 May 6;1(8645):1028–9.
Reduced cellular immune function in major depression and mania [letter] Barsi J, et al. **Psychiatry Res** 1989 Aug; 29(2):235–7
Immun/ correlates of stress and depression. Evans DL, et al. **Psychopharmacol Bull** 1989;25(3):319–24 (29 ref.)
Depression, altered immunity, and health: clinical implications for psychoimmunologic processes. Keller SE, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990;68:179–82

METABOLISM

Lower cortical beta-adrenoceptor binding sites in post-mortem samples from depressed suicide victims. De Paermentier F, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:818P
Brain 5-HT uptake sites, labelled with [3H]-paroxetine, in post-mortem samples from depressed suicide victims. Lawrence KM, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:812P
Serotonin concentrations and turnover in brains of depressed suicides. Cheetham SC, et al. **Brain Res** 1989 Nov 20; 502(2):332–40
The value of TSH in affective disorders. Clower CG. **Indiana Med** 1989 Aug;82(8):608–10
Benzodiazepine binding sites in amygdala and hippocampus of depressed suicide victims. Stocks GM, et al. **J Affective Disord** 1990 Jan;18(1):11–5
5-HT1A receptor function in depression: effect of chronic amitriptyline treatment. Lesch KP, et al. **J Neural Transm Gen Sect** 1990;80(2):157–61
The psychopharmacology of GABA synapses: update 1989. Lloyd KG, et al. **J Neural Transm Suppl** 1990;29:13–28
Subsensitivity of the 5-hydroxytryptamine1A (5-HT1A) receptor-mediated hypothermic response to ipsapirone in unipolar depression. Lesch KP, et al. **Life Sci** 1990; 46(18):1271–7
The influence of psychotropic drugs and releasing hormones on anterior pituitary hormone secretion in healthy subjects and depressed patients. Laakmann G, et al. **Pharmacopsychiatry** 1990 Jan;23(1):18–26 (31 ref.)
Binding of tritiated yohimbine to platelets in women with maternity blues. Best NR, et al. **Psychol Med** 1988 Nov; 18(4):837–42
[Clinical pharmacokinetics of viloxazine chlorhydrate. Practical implications] Bouquet S, et al. **Encephale** 1989 Sep–Oct;15(5):443–7 (22 ref.) (Eng. Abstr.) **(Fre)**
[Mental disorders and neuropeptides] Moroji T, et al. **Nippon Rinsho** 1990 May;48(5):1077–83 **(Jpn)**

MORTALITY

Nonsuicidal mortality in late-life depression [see comments] Lindesay J. **J Geriatr Psychiatry** 1989;22(1):53–65 Comment in: J Geriatr Psychiatry 1989;22(1):67–75.

NURSING

Who are we? Low self-esteem and marital identity. Watson WL, et al. **J Psychosoc Nurs Ment Health Serv** 1990 Apr; 28(4):15–20
Postpartum depression as a family problem. Martell LK. **MCN** 1990 Mar–Apr;15(2):90–3

PATHOLOGY

Subcortical hyperintensity on magnetic resonance imaging: a comparison of normal and depressed elderly subjects. Coffey CE, et al. **Am J Psychiatry** 1990 Feb;147(2):187–9
5HT2 receptor changes in major depression. Yates M, et al. **Biol Psychiatry** 1990 Mar 1;27(5):489–96
Evidence for the 5-HT hypothesis of suicide. A review of post-mortem studies. Mann JJ, et al. **Br J Psychiatry Suppl** 1989 Dec;(8):7–14 (60 ref.)
Pyramidal neuron loss and "glycine-site therapy": a need for an animal model and study in late-life depression. Bowen DM, et al. **Neurobiol Aging** 1989 Sep–Oct; 10(5):616–8; discussion 618–20
Circumscribed changes of the cerebral cortex in neuropsychiatric disorders of later life. Bowen DM, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9504–8

PHYSIOPATHOLOGY

Influence of stimulation parameters on auditory stimulus processing in schizophrenia and major depression: an auditory evoked potential study. Adler G, et al. **Acta Psychiatr Scand** 1990 May;81(5):453–8
Comorbidity of panic disorder and major depressive disorder: effects on platelet alpha 2 adrenergic receptors. Grunhaus LJ, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):216–9
Suppressant effects of dexamethasone on the availability of plasma L-tryptophan and tyrosine in healthy controls and in depressed patients. Maes M, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):19–23
Serotonin function in affective disorders. Grahame-Smith DG. **Acta Psychiatr Scand Suppl** 1989;350:7–12 (20 ref.)
Neuropsychiatric manifestations of altered thyroid state. Denicoff KD, et al. **Am J Psychiatry** 1990 Jan;147(1):94–9
Prostaglandins and organic affective syndrome [letter; comment] Lowinger P. **Am J Psychiatry** 1989 Dec; 146(12):1646–7 Comment on: Am J Psychiatry 1989 Mar;146(3):365–8.
The biological basis of an antidepressant response to sleep deprivation and relapse: review and hypothesis. Wu JC, et al. **Am J Psychiatry** 1990 Jan;147(1):14–21 (60 ref.)
Nutrient imbalances in depressive disorders. Possible brain mechanisms. Wurtman RJ, et al. **Ann N Y Acad Sci** 1989; 575:75–82; discussion 82–5
Mechanisms of seasonal cycles of behavior. Nelson RJ, et al. **Annu Rev Psychol** 1990;41:81–108 (160 ref.)
Children with major depression show reduced rapid eye movement latencies. Emslie GJ, et al. **Arch Gen Psychiatry** 1990 Feb;47(2):119–24
Alpha 2-adrenoceptor-mediated inhibition of platelet adenylate cyclase and induction of aggregation in major depression. Effect of long-term cyclic antidepressant drug treatment. García-Sevilla JA, et al. **Arch Gen Psychiatry** 1990 Feb;47(2):125–32
Recurrent depression is associated with a persistent reduction in sleep-related growth hormone secretion. Jarrett DB, et al. **Arch Gen Psychiatry** 1990 Feb;47(2):113–8
Two roads to rapid eye movement latency. Kupfer DJ, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):945–8 (55 ref.)
Regional cerebral blood flow in mood disorders. I. Comparison of major depressives and normal controls at rest. Sackeim HA, et al. **Arch Gen Psychiatry** 1990 Jan; 47(1):60–70
Effect of castration and testosterone in experimental models of depression in mice. Bernardi M, et al. **Behav Neurosci** 1989 Oct;103(5):1148–50
Sensory gating deficits in psychiatric inpatients: relation to catecholamine metabolites in different diagnostic groups. Baker NJ, et al. **Biol Psychiatry** 1990 Mar 1;27(5):519–28
Disorders of decision in affective disease: an effect of

beta-adrenergic dysfunction? Corwin J, et al. **Biol Psychiatry** 1990 Apr 15;27(8):813-33

Age-adjusted threshold values for reduced REM latency in unipolar depression using ROC analysis. Giles DE, et al. **Biol Psychiatry** 1990 Apr 15;27(8):841-53

Bereitschaftspotential in melancholic depression. Khanna S, et al. **Biol Psychiatry** 1989 Sep;26(5):526-9

Plasmatic vasopressin neurophysin in depression: basic levels and relations with HPA axis. Laruelle M, et al. **Biol Psychiatry** 1990 Jun 1;27(11):1249-63

Olfactory functioning in schizophrenia and depression [letter; comment] Warner MD, et al. **Biol Psychiatry** 1990 Feb 15;27(4):457-8 Comment on: Biol Psychiatry 1988 Jan 15;23(2):123-8.

Zinc taste test and postnatal depression [letter] Markovits PM, et al. **Br J Psychiatry** 1990 Mar;156:451-2

The platelet alpha 2-adrenoceptor as a potential biological marker in depression. García-Sevilla JA. **Br J Psychiatry Suppl** 1989 May;(4):67-72 (12 ref.)

Serotonergic dysfunction in depression. Meltzer H. **Br J Psychiatry Suppl** 1989 Dec;(8):25-31 (48 ref.)

Dominant occipital (alpha) rhythm frequency in early stage Alzheimer's disease and depression. Prinz PN, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov; 73(5):427-32

Automatic and strategic volitional saccadic eye movements in psychotic patients. Done DJ, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(1):27-32

Psychomotor disturbances in psychiatric patients as a possible basis for new attempts at differential diagnosis and therapy. IV. Brain dysfunction during motor activation measured by EEG mapping. Günther W, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(3):194-209

The circadian rhythm of pulse and temperature in patients with depressions and neuroses. Madjirova N. **Folia Med (Plovdiv)** 1988;30(3):5-13

Hemisphere asymmetry of alpha burst frequency of occurrence variations in depression. Cazard P. **Int J Neurosci** 1989 Jul;47(1-2):181-91

Hemisphere asymmetry of alpha burst sequential organization in depression. Cazard P, et al. **Int J Psychophysiol** 1989 Nov;8(2):169-83

Transient post-partum thyroid dysfunction and postnatal depression. Harris B, et al. **J Affective Disord** 1989 Nov-Dec;17(3):243-9

Regional cerebral blood flow in depression: associations with psychopathology. Schlegel S, et al. **J Affective Disord** 1989 Nov-Dec;17(3):211-8

Differences in dichotic listening asymmetries in depression according to symptomatology. Wale J, et al. **J Affective Disord** 1990 Jan;18(1):1-9

CSF serotonin metabolite (5-HIAA) studies in depression, impulsivity, and violence. Brown GL, et al. **J Clin Psychiatry** 1990 Apr;51 Suppl:31-41; discussion 42-3 (199 ref.)

Effects of antidepressants on human performance: a review. Deptula D, et al. **J Clin Psychopharmacol** 1990 Apr; 10(2):105-11 (63 ref.)

Is there a relationship between failing efforts to stop smoking and depression? [letter] Dilsaver SC, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):153-4

Serotonin: a common neurobiologic substrate in anxiety and depression. Eison MS. **J Clin Psychopharmacol** 1990 Jun; 10(3 Suppl):26S-30S (53 ref.)

Biological abnormalities in late-life depression. Alexopoulos GS. **J Geriatr Psychiatry** 1989;22(1):25-34 (37 ref.)

Mood disorders following stroke: new findings and future directions. Robinson RG, et al. **J Geriatr Psychiatry** 1989; 22(1):1-15

Gender differences in the clinical features of unipolar major depressive disorder. Young MA, et al. **J Nerv Ment Dis** 1990 Mar;178(3):200-3

Amplitudes of somatosensory evoked potentials reflect cortical hyperexcitability in antidepressant-induced myoclonus. Förstl H, et al. **Neurology** 1990 Jun;40(6):924-6

Latencies of REM sleep and awakening in major depression: possible indicators of cholinergic activity. Machowski R, et al. **Neurophysiol Clin** 1989 Nov;19(5):385-91

Cardiac beta-adrenergic sensitivity in depression: relation with endogenous subtype and desipramine response. Bertschy G, et al. **Neuropsychobiology** 1989;21(4):177-81

Cortisol, ACTH, prolactin and beta-endorphin responses to fenfluramine administration in major-depressed patients. Maes M, et al. **Neuropsychobiology** 1989;21(4):192-6

Cerebral laterality and depression: relations of perceptual asymmetry to outcome of treatment with tricyclic antidepressants. Bruder GE, et al. **Neuropsychopharmacology** 1990 Feb;3(1):1-10

Age-related changes in sleep in depressed and healthy subjects. A meta-analysis. Knowles JB, et al. **Neuropsychopharmacology** 1990 Aug;3(4):251-9

Procedure- and age-dependent hyperactivity in a new animal model of endogenous depression. Hartley P, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):69-72

Diminished sexual activity in a new animal model of endogenous depression. Neill D, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):73-6

REM sleep abnormalities in a new animal model of endogenous depression. Vogel G, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):77-83

A new animal model of endogenous depression: a summary of present findings. Vogel G, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):85-91 (52 ref.)

Decreased intracranial self-stimulation in a new animal model of endogenous depression. Vogel G, et al. **Neurosci Biobehav Rev** 1990 Spring;14(1):65-8

Cholinergic dysfunction in depression. Janowsky DS, et al. **Pharmacol Toxicol** 1990;66 Suppl 3:100-11 (26 ref.)

Pharmacologic perturbation strategies in the study of the neurobiology of depression. Dilsaver SC. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):785-98 (66 ref.)

Dexamethasone effects on numbers of cells in lymphocyte subpopulations: changes associated with major depression and DST nonsuppression. Pedersen CA, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):895-906

Interrelationships among anxiety, aggression, impulsivity, and mood: a serotonergically linked cluster? Apter A, et al. **Psychiatry Res** 1990 May;32(2):191-9

Topographic EEG and flash visual evoked potentials in elderly subjects, depressed patients, and demented patients. Guidi M, et al. **Psychiatry Res** 1989 Sep;29(3):403-6

Longitudinal sleep EEG, temperature, and activity measurements across the menstrual cycle in patients with premenstrual depression and in age-matched controls. Parry BL, et al. **Psychiatry Res** 1989 Dec;30(3):285-303

Hypothalamo-pituitary-adrenal activity in endogenously depressed post-traumatic stress disorder patients. Halbreich U, et al. **Psychoneuroendocrinology** 1989;14(5):365-70

Effects of glucocorticoid antagonism with RU 486 on pituitary-adrenal function in patients with major depression: time-dependent enhancement of plasma ACTH secretion. Kling MA, et al. **Psychopharmacol Bull** 1989; 25(3):466-72

A neuroendocrine study of 5HT function in depression: evidence for biological mechanisms of endogenous and psychosocial causation. Deakin JF, et al. **Psychopharmacology (Berl)** 1990;101(1):85-92

Lithium and serotonin function: implications for the serotonin hypothesis of depression. Price LH, et al. **Psychopharmacology (Berl)** 1990;100(1):3-12 (114 ref.)

Lithium increases 5-HT-mediated neuroendocrine responses in tricyclic resistant depression. Cowen PJ, et al. **Psychopharmacology (Berlin)** 1989;99(2):230-2

The beta-adrenoceptor and endocrine abnormalities in juvenile depression. Carstens ME, et al. **S Afr Med J** 1990 Apr 7;77(7):360-3

[EEG study of patients with various depressive disorders] Mori T, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):616-21 **(Jpn)**

[Hormones and psychiatric disorders] Nomura J. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1362-9 **(Jpn)**

[The serotonin concept of depression in light of the mechanism of action of antidepressant drugs] Kostowski W, et al. **Psychiatr Pol** 1989 Mar-Apr;23(2):117-24 (41 ref.) **(Pol)**

[Evaluation of clinical and neurophysiological markers of depressive disorder with symptoms of peripheral and brain circulation disturbance] Strzyżewski W, et al. **Psychiatr Pol** 1989 Mar-Apr;23(2):89-96 (Eng. Abstr.) **(Pol)**

[Heart rhythm reactivity in patients with endogenous depression. I. Respiratory tests] Zaluska M. **Psychiatr Pol** 1989 Jul-Aug;23(4):271-7 (Eng. Abstr.) **(Pol)**

[Heart rate reactivity to stimuli in patients with endogenous depression. II. The orthostatic test] Zaluska M. **Psychiatr Pol** 1988 Nov-Dec;22(6):426-9 (Eng. Abstr.) **(Pol)**

PREVENTION & CONTROL

Frequency of suicide on Gotland after systematic postgraduate education of general practitioners. Rutz W, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):151-4

The ethics of prophylactic trials of depression [letter] Fahy TJ. **Br J Psychiatry** 1990 Apr;156:585-6

Prophylactic medication for unipolar depressive illness: the place of lithium carbonate in combination with antidepressant medication. Kim HR, et al. **Can J Psychiatry** 1990 Mar;35(2):107-14 (55 ref.)

A study of the clinical efficacy of maintenance ECT. Thienhaus OJ, et al. **J Clin Psychiatry** 1990 Apr;51(4):141-4

[Psychological sequelae of abdominal stoma and the value of informing the patients and their families] Fryc-Martyńska J. **Pol Tyg Lek** 1989 May 15;44(20):469-71 (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

Analysis of subjective complaints of nonpsychotic depressive and borderline patients in a day-time clinic. Boleloucký Z, et al. **Act Nerv Super (Praha)** 1990 Mar;32(1):68-9

Parental representation in patients with major depression, anxiety disorder and mixed conditions. Alnaes R, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):518-22

Depression among elderly people. A psychosocial study of urban and rural populations. Carpiniello B, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):445-50

Life events and social network in relation to the onset of depression. A controlled study. Cornelis CM, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):174-9

Depression among patients with stroke. Dam H, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):118-24

Short-term course of depression following attempted suicide: a preliminary report. Davis AT. **Acta Psychiatr Scand** 1990 Apr;81(4):345-51

The influence of early and recent life stress on severity of depression. Garnefski N, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):295-301

Premenstrual depression predicts future major depressive disorder. Graze KK, et al. **Acta Psychiatr Scand** 1990 Feb; 81(2):201-5

Simultaneous depression. Holte A, et al. **Acta Psychiatr Scand** 1990 May;81(5):463-7

Postpsychotic collapse in schizophrenia. Mino Y, et al. **Acta Psychiatr Scand** 1989 Oct;80(4):368-74

Subjective bias in reports of poor work adjustment in depressed patients. Morgado A, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):541-7

Social relationships reflected by depressive inpatients. Richter G, et al. **Acta Psychiatr Scand** 1989 Dec; 80(6):573-8

Stress, depression, and mania: relationship between perceived role of stressful events and clinical and biochemical characteristics. Swann AC, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):389-97

Assessing depression in substance abusers: Beck Depression Inventory and SCL-90R. Moffett LA, et al. **Addict Behav** 1990;15(2):179-81

Depression in the transition to adult life. Hallowell EM, et al. **Adolesc Psychiatry** 1989;16:175-88

The Millon Adolescent Personality Inventory profiles of depressed adolescents. Ehrenberg MF, et al. **Adolescence** 1990 Summer;25(98):415-24

Alternative models of the stress buffering hypothesis. Landerman R, et al. **Am J Community Psychol** 1989 Oct; 17(5):625-42

Reported history of physical and sexual abuse and severity of symptomatology in women psychiatric outpatients. Surrey J, et al. **Am J Orthopsychiatry** 1990 Jul;60(3):412-7

Racial congruity as a contextual correlate of mental disorder. Tweed DL, et al. **Am J Orthopsychiatry** 1990 Jul; 60(3):392-403

A patient's view of doctor-patient boundaries [letter] Ann. **Am J Psychiatry** 1990 Oct;147(10):1391

Relationship of cognitive factors to CSF corticotropin-releasing hormone in depression. De Jong JA, et al. **Am J Psychiatry** 1990 Mar;147(3):350-2

"Anger attacks": possible variants of panic and major depressive disorders. Fava M, et al. **Am J Psychiatry** 1990 Jul;147(7):867-70

Photophobia in other disorders as well as depression [letter] Howard R. **Am J Psychiatry** 1990 Apr;147(4):539

Family functioning and major depression: an overview. Keitner GI, et al. **Am J Psychiatry** 1990 Sep;147(9):1128-37 (82 ref.)

Dysfunctional attitudes in depressed patients before and after clinical treatment and in normal control subjects. Peselow ED, et al. **Am J Psychiatry** 1990 Apr;147(4):439-44

The role of depression in couples involved in murder-suicide and homicide. Rosenbaum M. **Am J Psychiatry** 1990 Aug; 147(8):1036-9

Rapid cycling in unipolar and bipolar affective disorders. Wolpert EA, et al. **Am J Psychiatry** 1990 Jun;147(6):725-8

The evolution of the self-psychological approach to depression. Deitz J. **Am J Psychother** 1989 Oct; 43(4):494-505

The emergence of psychopathology in a previously adaptive mother-infant dyad. Trad PV. **Am J Psychother** 1990 Jan; 44(1):95-106

Early family experiences of women with bulimia and depression. Stuart GW, et al. **Arch Psychiatr Nurs** 1990 Feb;4(1):43-52

Development of a scale to measure interpersonal sensitivity. Boyce P, et al. **Aust N Z J Psychiatry** 1989 Sep; 23(3):341-51

Depression and attempted suicide [letter; comment] Goldney R. **Aust N Z J Psychiatry** 1989 Sep;23(3):307-8 Comment on: Aust N Z J Psychiatry 1989 Mar;23(1):59-66.

To what extent does age influence the reporting of life events? Oei TI, et al. **Aust N Z J Psychiatry** 1990 Mar; 24(1):91-5

Reliability of the parental bonding instrument and intimate bond measure scales. Wilhelm K, et al. **Aust N Z J Psychiatry** 1990 Jun;24(2):199-202

The effects of postnatal depression on the infant. Murray L, et al. **Baillieres Clin Obstet Gynaecol** 1989 Dec; 3(4):921-33 (45 ref.)

The thin ideal, depression and eating disorders in women. McCarthy M. **Behav Res Ther** 1990;28(3):205-15 (58 ref.)

Elevated sleep and waking heart rates in anxious depressions. Abramson L, et al. **Biol Psychiatry** 1989 Sep;26(5):496-9

Chronicity and relapse in geriatric depression. Alexopoulos GS, et al. **Biol Psychiatry** 1989 Oct;26(6):551-64 (90 ref.)

Sleep is undisturbed in elderly, depressed individuals who have not sought health care. Vitiello MV, et al. **Biol Psychiatry** 1990 Feb 15;27(4):431-40

Depression in childhood. 2. A psychoanalytic approach. Anderson R. **BMJ** 1990 May 12;300(6734):1261-2; discussion 1260 (7 ref.)

Endogenous and non-endogenous depressions: relations to life events, dysfunctional attitudes and event perceptions. Robins CJ, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):201-7

A phenomenon-oriented strategy in depression research. Shapiro MB. **Br J Clin Psychol** 1989 Nov;28 (Pt 4):289–305 (44 ref.)
The nature and prevalence of depression in chronic schizophrenic in-patients. Barnes TR, et al. **Br J Psychiatry** 1989 Apr;154:486–91
Depressive illness in multiple sclerosis. Clinical and theoretical aspects of the association. Berrios GE, et al. **Br J Psychiatry** 1990 Jan;156:10–6 (73 ref.)
Psychiatric phenomena in Alzheimer's disease. III: Disorders of mood. Burns A, et al. **Br J Psychiatry** 1990 Jul;157:81–6, 92–4
Maternal depression and the emotional development of the child. Caplan HL, et al. **Br J Psychiatry** 1989 Jun; 154:818–22
Affect, affective disorder and schizophrenia. A neuropsychological investigation of right hemisphere function. David AS, et al. **Br J Psychiatry** 1990 Apr; 156:491–5
Does personality predict long-term outcome in depression? Duggan CF, et al. **Br J Psychiatry** 1990 Jul;157:19–24
Life events, life difficulties and confiding relationships in the depressed elderly. Emmerson JP, et al. **Br J Psychiatry** 1989 Dec;155:787–92
Alexithymia, masked depression and loss in a Holocaust survivor. Fisch RZ. **Br J Psychiatry** 1989 May;154:708–10
Loss and theft [letter; comment] Gillen RS. **Br J Psychiatry** 1989 May;154:721 Comment on: Br J Psychiatry 1988 Jun;152:845–6.
Depression in attempted suicide [letter] Goldney RD. **Br J Psychiatry** 1989 Jun;154:881–2
The relationship between depression and hopelessness. Implications for current theories of depression. Greene SM. **Br J Psychiatry** 1989 May;154:650–9
The use of rating scales to identify post-natal depression. Harris B, et al. **Br J Psychiatry** 1989 Jun;154:813–7
The occurrence of depression following mania. A method of predicting vulnerable cases. Lucas CP, et al. **Br J Psychiatry** 1989 May;154:705–8
Depression before and after age 65. A re-examination. Musetti L, et al. **Br J Psychiatry** 1989 Sep;155:330–6
Caution about sorcery [letter; comment] Mynors-Wallis LM. **Br J Psychiatry** 1989 Oct;155:570 Comment on: Br J Psychiatry 1989 Feb;154:218–20.
Anxiety and depression in mothers of children with psychotic disorders and mental retardation. Ryde-Brandt B. **Br J Psychiatry** 1990 Jan;156:118–21
Depression-dependent exacerbation of tardive dyskinesia [see comments] Sachdev PS. **Br J Psychiatry** 1989 Aug; 155:253–5 Comment in: Br J Psychiatry 1989 Nov;155:716–7.
Neurosyphilis presenting as psychiatric disorders. Sirota P, et al. **Br J Psychiatry** 1989 Oct;155:559–61
Self-harm and depressive disorder [letter; comment] Théret L, et al. **Br J Psychiatry** 1989 Dec;155:868 Comment on: Br J Psychiatry 1989 Jan;154:41–7.
Pre-pubertal depressive stupor [letter] Warnecke LB. **Br J Psychiatry** 1989 Mar;154:418–9
Major depression in Down's syndrome. Warren AC, et al. **Br J Psychiatry** 1989 Aug;155:202–5
Negative symptoms, tardive dyskinesia and depression in chronic schizophrenia. Barnes TR, et al. **Br J Psychiatry Suppl** 1989 Nov;(7):99–103
The dysphoric syndrome in schizophrenia and its implications for relapse. Hirsch SR, et al. **Br J Psychiatry Suppl** 1989 Jul;(5):46–50
Depression, affect and negative symptoms in schizophrenia. Lindenmayer JP, et al. **Br J Psychiatry Suppl** 1989 Nov; (7):108–14
Depression in homicidal adolescents. Malmquist CP. **Bull Am Acad Psychiatry Law** 1990;18(1):23–36
Life events and the recurrence of depression. Ghaziuddin M, et al. **Can J Psychiatry** 1990 Apr;35(3):239–42
Premenstrual depression in women with a history of affective disorder: mood and attentional processes. McMillan MJ, et al. **Can J Psychiatry** 1989 Nov;34(8):791–5
Infants at social risk: maternal depression and family support services as mediators of infant development and security of attachment. Lyons-Ruth K, et al. **Child Dev** 1990 Feb; 61(1):85–98
Depressed mothers' judgments about their children: an examination of the depression-distortion hypothesis. Richters J, et al. **Child Dev** 1989 Oct;60(5):1068–75
The effects of familial risk factors on social-cognitive abilities in children. Walker EF, et al. **Child Psychiatry Hum Dev** 1990 Summer;20(4):253–67
The nature of depression presenting concomitantly with panic disorder. Cassano GB, et al. **Compr Psychiatry** 1989 Nov-Dec;30(6):473–82 (37 ref.)
Symptoms of interpersonal sensitivity in depression. Davidson J, et al. **Compr Psychiatry** 1989 Sep-Oct; 30(5):357–68
Anxiety and depression: comorbidity, psychopathology, and social functioning. Hecht H, et al. **Compr Psychiatry** 1989 Sep-Oct;30(5):420–33
Life events and major depression in a sample of inpatient children. Kashani JH, et al. **Compr Psychiatry** 1990 May-Jun;31(3):266–74
Compounded depression and family functioning during the acute episode and at 6-month follow-up. Keitner GI, et al. **Compr Psychiatry** 1989 Nov-Dec;30(6):512–21
The relationship between life stress and depression in an endogenous sample. Reno RM, et al. **Compr Psychiatry** 1990 Jan-Feb;31(1):25–33
DSM-III and DSM-III-R schizotypal symptoms in borderline personality disorder. Silk KR, et al. **Compr Psychiatry** 1990 Mar-Apr;31(2):103–10
Axis II comorbidity of normal-weight bulimia. Zanarini MC, et al. **Compr Psychiatry** 1990 Jan-Feb;31(1):20–4
Dreams and suicidal behaviour. Evans AL. **Crisis** 1990 May; 11(1):12–9 (14 ref.)
Empirical indicators of near-term suicide risk. Motto JA, et al. **Crisis** 1990 May;11(1):52–9
Basic character inventory personality traits among patients with major depression, anxiety disorders and mixed conditions. Alnaes R, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(5):303–8
Attempted suicide in those with personality disorders. A comparison of depressed and unsocialized suicide attempters. Lester D, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(2):109–12
Unipolar and bipolar schizoaffective disorders: a comparative study. III. Long-term outcome. Marneros A, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(3):171–6
Unipolar and bipolar schizoaffective disorders: a comparative study. I. Premorbid and sociodemographic features. Marneros A, et al. **Eur Arch Psychiatry Neurol Sci** 1989; 239(3):158–63
Unipolar and bipolar schizoaffective disorders: a comparative study. II. Long-term course. Marneros A, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(3):164–70
A case history analysis of the "manic type" and the "melancholic type" of premorbid personality in affectively ill patients. Pössl J, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):347–55
The Zurich study. VIII. Insomnia: association with depression, anxiety, somatic syndromes, and course of insomnia. Vollrath M, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(2):113–24
Picrotoxin changes the effects of imipramine and desipramine in rats in the forced swimming test. Fernández-Teruel A, et al. **Eur J Pharmacol** 1990 May 31;181(1-2):35–41
Can patients' views of a therapeutic system predict outcome? An empirical study with depressive patients. Priebe S. **Fam Process** 1989 Sep;28(3):349–55
Major depression in late life with AIDS delusions. A case report and review. Colenda CC 3d, et al. **Gen Hosp Psychiatry** 1990 May;12(3):207–9
Discrimination of facial expressions of emotion by depressed subjects. Cooley EL, et al. **Genet Soc Gen Psychol Monogr** 1989 Nov;115(4):449–65
Psychogenic vomiting: the relation between patterns of vomiting and psychiatric diagnoses. Muraoka M, et al. **Gut** 1990 May;31(5):526–8
Negative and positive cognition in depressed and nondepressed chronic-pain patients. Ingram RE, et al. **Health Psychol** 1990;9(3):300–14
Mixed factitious disorder presenting as AIDS. Bialer PA, et al. **Hosp Community Psychiatry** 1990 May;41(5):552–3
Alcohol use and psychological distress: a comparison of Americans and West Germans. Cockerham WC, et al. **Int J Addict** 1989 Oct;24(10):951–61
Rating depression and anxiety after mastectomy: observer versus self-rating scales. Grandi S, et al. **Int J Psychiatry Med** 1990;20(2):163–71
Stress, social support, and symptoms of depression in spouses of the medically ill. Rideout EM, et al. **Int J Psychiatry Med** 1990;20(1):37–48
Depressive affect and its ideational content: a case study of dissatisfaction. Aarons ZA. **Int J Psychoanal** 1990;71 (Pt 2):285–96
Artistic expression in spontaneous paintings of depressed patients. Assael M, et al. **Isr J Psychiatry Relat Sci** 1989; 26(4):223–43 (30 ref.)
Disturbed affect and suicidal behavior during adolescence: personality considerations. Golombek H, et al. **Isr J Psychiatry Relat Sci** 1989;26(1-2):30–6
Cognitive functioning in depressed children and adolescents. Sohlberg SC. **Isr J Psychiatry Relat Sci** 1989;26(1-2):37–45 (38 ref.)
Childhood depression: a family perspective. Teichman Y. **Isr J Psychiatry Relat Sci** 1989;26(1-2):46–57
Cognitive deficit or cognitive distortion in childhood depression. Kendall PC, et al. **J Abnorm Child Psychol** 1990 Jun;18(3):255–70
Impact of diagnosed depression and self-reported mood on mothers' control strategies: a longitudinal study. Kochanska G, et al. **J Abnorm Child Psychol** 1989 Oct;17(5):493–511
A causal analysis of chronic pain and depression. Brown GK. **J Abnorm Psychol** 1990 May;99(2):127–37
Cognitive specificity and positive-negative affectivity: complementary or contradictory views on anxiety and depression? Clark DA, et al. **J Abnorm Psychol** 1990 May; 99(2):148–55
Schema congruence and depression: loss of objectivity in self- and other-inferences. Golin S. **J Abnorm Psychol** 1989 Nov;98(4):495–8
Ecology of depression in late childhood and early adolescence: a profile of daily states and activities. Larson RW, et al. **J Abnorm Psychol** 1990 Feb;99(1):92–102
Positive life events, attributional style, and hopefulness: testing a model of recovery from depression. Needles DJ, et al. **J Abnorm Psychol** 1990 May;99(2):156–65
Clinical predictors of eventual suicide: a 5- to 10-year prospective study of suicide attempters. Beck AT, et al. **J Affective Disord** 1989 Nov-Dec;17(3):203–9
Features associated with suicide attempts in recurrent major depression. Bulik CM, et al. **J Affective Disord** 1990 Jan; 18(1):29–37
Prodromal symptoms in primary major depressive disorder. Fava GA, et al. **J Affective Disord** 1990 Jun;19(2):149–52
Diurnal variations of mood in depressed patients in relation to severity of depression. Haug HJ, et al. **J Affective Disord** 1990 May;19(1):37–41
Anxiety and depression in a community sample: the influence of comorbidity on social functioning. Hecht H, et al. **J Affective Disord** 1990 Feb;18(2):137–44
Perceived dysfunctional intimate relationships: a specific association with the non-melancholic depressive subtype. Hickie I, et al. **J Affective Disord** 1990 Jun;19(2):99–107
Postpartum depression and postpartum adaptation: overlapping constructs? Hopkins J, et al. **J Affective Disord** 1989 Nov-Dec;17(3):251–4
The daily course of the symptomatology and the impaired time estimation in endogenous depression (melancholia). Kuhs H, et al. **J Affective Disord** 1989 Nov-Dec; 17(3):285–90
Unpleasant taste—a neglected symptom in depression. Miller SM, et al. **J Affective Disord** 1989 Nov-Dec;17(3):291–3
Suicide in subtypes of primary major depression. Rihmer Z, et al. **J Affective Disord** 1990 Mar;18(3):221–5
Circadian rhythms in depression. Part II: Circadian rhythms in inpatients with various mental disorders. Tsujimoto T, et al. **J Affective Disord** 1990 Mar;18(3):199–210
Circadian rhythms in depression. Part I: Monitoring of the circadian body temperature rhythm. Tsujimoto T, et al. **J Affective Disord** 1990 Mar;18(3):193–7
The premorbid personality of patients with different subtypes of an affective illness. Statistical analysis of blind assignment of case history data to clinical diagnoses. von Zerssen D, et al. **J Affective Disord** 1990 Jan;18(1):39–50
Attributional style and perceived stress in endogenous and reactive depression. Willner P, et al. **J Affective Disord** 1990 Apr;18(4):281–7
Adaptation in adolescence: the influence of time and severe psychiatric disorder. Beardslee WR, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May; 29(3):429–39
Suicidality in affectively disordered adolescent inpatients. Brent DA, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):586–93
Determinants of depression in recent onset pediatric inflammatory bowel disease. Burke P, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):608–10
Father absence and depression [letter] Crumley FE. **J Am Acad Child Adolesc Psychiatry** 1989 Sep;28(5):805
Early childhood bereavement. Kranzler EM, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):513–20
The relationship of early risk and current mediators to depressive symptomatology in adolescence. Reinherz HZ, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):942–7
Depression, episodic behavioral dyscontrol, and polydipsia following right temporal lobe damage. Rubenstein JL, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May; 29(3):472–4
Depression: variability of intrapsychic and sleep parameters. Greenberg R, et al. **J Am Acad Psychoanal** 1990 Summer; 18(2):233–46
Health behavior correlates of depression among university students. McDermott RJ, et al. **J Am Coll Health** 1989 Nov;38(3):115–9
Functional status and cognitive impairment in Alzheimer's patients with and without depression. Pearson JL, et al. **J Am Geriatr Soc** 1989 Dec;37(12):1117–21
Negative oedipal transference of a male patient to his female analyst during the termination phase. Chertoff JM. **J Am Psychoanal Assoc** 1989;37(3):687–713
The abandonment depression: developmental and alchemical perspectives. Schwartz-Salant N. **J Anal Psychol** 1990 Apr; 35(2):143–59
Depression: a discussion of Jung's ideas. Steinberg W. **J Anal Psychol** 1989 Oct;34(4):339–52
Maternal depression. Puckering C. **J Child Psychol Psychiatry** 1989 Nov;30(6):807–17 (50 ref.)
Depression type in Parkinson disease. Bieliauskas LA, et al. **J Clin Exp Neuropsychol** 1989 Oct;11(5):597–604
Psychosocial aspects of depression and the role of psychotherapy. Jarrett RB. **J Clin Psychiatry** 1990 Jun;51 Suppl:26–35; discussion 35–8 (116 ref.)
Reverse seasonal affective disorder in major depressive disorder [letter] Milstein KK, et al. **J Clin Psychiatry** 1990 Apr;51(4):167–8
MMPI differences for renal, psychiatric, and general medical patients. Davis B, et al. **J Clin Psychol** 1990 Mar; 46(2):178–84
Cognitive functioning in depression. Sweeney JA, et al. **J Clin Psychol** 1989 Nov;45(6):836–42
Cognitive and behavioral correlates of depression in clinical and nonclinical populations. Wierzbicki M, et al. **J Clin Psychol** 1989 Nov;45(6):872–7
Symptom comorbidity in anxiety and depressive disorders. Copp JE, et al. **J Clin Psychopharmacol** 1990 Jun;10(3 Suppl):52S–60S
Role of maternal depression in perceptions of child maladjustment. Conrad M, et al. **J Consult Clin Psychol**

1989 Oct;57(5):663–7
Attributional style in clinically depressed and conduct disordered adolescents. Curry JF, et al. **J Consult Clin Psychol** 1990 Feb;58(1):109–15
Marital distress, depression, and attributions: is the marital distress–attribution association an artifact of depression? Fincham FD, et al. **J Consult Clin Psychol** 1989 Dec; 57(6):768–71
Problem drinking and depression among DWI offenders: a three–wave longitudinal study. Windle M, et al. **J Consult Clin Psychol** 1990 Apr;58(2):166–74
I can't play ball anymore. Myers WA. **J Geriatr Psychiatry** 1989;22(1):121–39; discussion 141–4
Coexisting depression and dementia. Rabins PV. **J Geriatr Psychiatry** 1989;22(1):17–24 (28 ref.)
Positive ego and coping functions in chronic pain and depressed patients. Colenda CC 3d, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):48–52
Depressive symptoms in Parkinson's disease: a comparison with disabled control subjects. Ehmann TS, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):3–9
Assessment of behavioral and affective symptoms in Alzheimer's disease. Patterson MB, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):21–30
Osteoporosis with pathologic hip fractures in major depression. Van Vort WB, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):10–2
Depression among the homeless. La Gory M, et al. **J Health Soc Behav** 1990 Mar;31(1):87–102
Control or defense? Depression and the sense of control over good and bad outcomes. Mirowsky J, et al. **J Health Soc Behav** 1990 Mar;31(1):71–86
Resolution of psychotic depression after right temporoparietal infarction. Chimowitz MI, et al. **J Nerv Ment Dis** 1990 Jul;178(7):458–9
Cognitive processes and their relationship to endogenous and reactive components of depression. Deutscher S, et al. **J Nerv Ment Dis** 1990 Jun;178(6):351–9
Panic attacks and related disorders in alcohol–dependent, depressed, and nonclinical samples. Pollard CA, et al. **J Nerv Ment Dis** 1990 Mar;178(3):180–5
Cognitive impairments and depression in Parkinson's disease: a follow up study. Starkstein SE, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):597–602
Assessing individual differences: effects of responding to prior questionnaires on the substantive and psychometric properties of self–esteem and depression assessments. Brody GH, et al. **J Pers Assess** 1990 Spring;54(1–2):401–11
An empirical study of object relations and defensive operations in antisocial personality disorder. Gacono CB. **J Pers Assess** 1990 Summer;54(3–4):589–600
The Depressive Experiences Questionnaire: a further evaluation. Klein DN. **J Pers Assess** 1989 Winter; 53(4):703–15
Hand Test characteristics of severely behavior handicapped children. Wagner EE, et al. **J Pers Assess** 1990 Summer; 54(3–4):802–6
Effects of responses to depression on the remediation of depressive affect. Morrow J, et al. **J Pers Soc Psychol** 1990 Mar;58(3):519–27
Dimensionality of coping and its relation to depression. Rohde P, et al. **J Pers Soc Psychol** 1990 Mar;58(3):499–511
Personality and depression: a further evaluation. Joffe RT, et al. **J Psychiatr Res** 1989;23(3–4):299–301
Physical self–efficacy, perceived physical status, and depressive symptomatology in older adults. Davis–Berman J. **J Psychol** 1990 Mar;124(2):207–15
Body image and depression in women with early and late onset obesity. Faubel M. **J Psychol** 1989 Jul;123(4):385–95
The write way: using poetry for self–disclosure. Sluder H. **J Psychosoc Nurs Ment Health Serv** 1990 Jul;28(7):26–8
Postpartum blues: salivary cortisol and psychological factors. Ehlert U, et al. **J Psychosom Res** 1990;34(3):319–25
Psychosocial status at initiation of cancer treatment and survival. Richardson JL, et al. **J Psychosom Res** 1990; 34(2):189–201
Smoking, smoking cessation, and major depression [see comments] Glassman AH, et al. **JAMA** 1990 Sep 26; 264(12):1546–9 Comment in: JAMA 1990 Sep 26;264(12):1583–4.
A study of depression in two cultures: a transcultural study with Japanese and Australian clinically depressed patients. Radford M, et al. **Jpn J Psychiatry Neurol** 1989 Jun; 43(2):119–32
Melville's "Bartleby the Scrivener" [letter] **N Y State J Med** 1990 Aug;90(8):422–4
Locus of control, depression and suicidal ideation. Lester D. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1158
Drug discrimination models in anxiety and depression. Andrews JS, et al. **Pharmacol Ther** 1990;47(2):267–80 (138 ref.)
Recurrent brief depression. A new concept of depression. Angst J. **Pharmacopsychiatry** 1990 Mar;23(2):63–6 (3 ref.)
Depression and suicide. Beskow J. **Pharmacopsychiatry** 1990 Jan;23 Suppl 1:3–8 (40 ref.)
The child's predicament in families with a mood disorder. Research findings and family interventions. DiNicola VF. **Psychiatr Clin North Am** 1989 Dec;12(4):933–49 (48 ref.)
Eating and mood disorders in young children. DiNicola VF, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):873–93 (61 ref.)
Experimental animal modeling of depression and anxiety. Harris JC. **Psychiatr Clin North Am** 1989 Dec;12(4):815–36 (96 ref.)
Phenomenology of anxiety and depressive disorders in children and adolescents. Kotsopoulos S. **Psychiatr Clin North Am** 1989 Dec;12(4):803–14 (64 ref.)
Parameters of adolescent depression. A review [published erratum appears in Psychiatr Clin North Am 1990 Mar;13(1):xiii] Kutcher SP, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):895–918 (182 ref.)
Children of parents with major affective disorders. A review of the past 5 years. LaRoche C. **Psychiatr Clin North Am** 1989 Dec;12(4):919–32 (48 ref.)
Assessment of suicidal children and adolescents. Pfeffer CR. **Psychiatr Clin North Am** 1989 Dec;12(4):861–72 (47 ref.)
The relationship of anxiety to depression in children and adolescents. Stavrakaki C, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):777–89 (80 ref.)
Avoidance behaviour and major depression in panic disorder: a report from the Cross–National Collaborative Panic Study. Maier W, et al. **Psychiatr Dev** 1989 Summer; 7(2):123–42
Nightmares in crisis: clinical applications of lucid dreaming techniques. Brylowski A. **Psychiatr J Univ Ott** 1990 Jun; 15(2):79–84
Family functioning, social adjustment, and recurrence of suicidality. Keitner GI, et al. **Psychiatry** 1990 Feb; 53(1):17–30
Distinguishing depression and negative symptoms in unmedicated patients with schizophrenia. Newcomer JW, et al. **Psychiatry Res** 1990 Mar;31(3):243–50
Impaired effortful cognition in depression. Tancer ME, et al. **Psychiatry Res** 1990 Feb;31(2):161–8
Psychological test characteristics of depressed and panic patients. Wetzler S, et al. **Psychiatry Res** 1990 Feb; 31(2):179–92
Comments on the clinical analysis of anxiety and depressive affect. Renik O. **Psychoanal Q** 1990 Apr;59(2):226–48
Retrospective assessment of marital adjustment and depression during the first 2 years of spousal bereavement. Futterman A, et al. **Psychol Aging** 1990 Jun;5(2):277–83
Selective reminding procedure in depression and dementia. Hart RP, et al. **Psychol Aging** 1987 Jun;2(2):111–5
Hopelessness as a measure of suicidal intent in the depressed elderly. Hill RD, et al. **Psychol Aging** 1988 Sep;3(3):230–2
Memory complaint and memory performance in the depressed elderly. O'Hara MW, et al. **Psychol Aging** 1986 Sep;1(3):208–14
Children of depressed parents: an integrative review. Downey G, et al. **Psychol Bull** 1990 Jul;108(1):50–76 (225 ref.)
Perceptual and physiological dysfunction in depression. Blackburn IM, et al. **Psychol Med** 1990 Feb;20(1):95–103
Psychiatric morbidity in patients with Parkinson's disease. Brown RG, et al. **Psychol Med** 1990 Feb;20(1):77–87
Gender, social support and recovery from depressive disorders: a prospective clinical study. Brugha TS, et al. **Psychol Med** 1990 Feb;20(1):147–56
The recollection of affect. Schrader G, et al. **Psychol Med** 1990 Feb;20(1):105–9
The Nottingham Study of Neurotic Disorder: relationship between personality status and symptoms. Tyrer P, et al. **Psychol Med** 1990 May;20(2):423–31
Memory deficit in clinical depression: processing resources and the structure of materials. Watts FN, et al. **Psychol Med** 1990 May;20(2):345–9
Dysfunctional attitudes and vulnerability to persistent depression. Williams JM, et al. **Psychol Med** 1990 May; 20(2):375–81
Note on the Kirsling, et al. paper [comment] Friedman RC. **Psychol Rep** 1989 Dec;65(3 Pt 2):1266 Comment on: Psychol Rep 1989 Oct;65(2):355–66.
Changes during the course of the psychotherapeutic relationship. Levine SW, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):883–97
Revised Beck Depression Inventory scores of inner–city adolescents: pre– and postpartum. Steer RA, et al. **Psychol Rep** 1990 Feb;66(1):315–20
The cognitive triad and suicide intent in depressed in–patients. Wetzel RD, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):1027–32
The issue of the core syndrome of endogenous depression. Bron B, et al. **Psychopathology** 1990;23(1):1–8
A musical assessment of psychiatric states in adults. Pavlicevic M, et al. **Psychopathology** 1989;22(6):325–34
A descriptive profile of the depressed child. Hughes CW, et al. **Psychopharmacol Bull** 1989;25(2):232–7
The Hamilton Depression Scale and the numerical description of the symptoms of depression. Berrios GE, et al. **Psychopharmacol Ser** 1990;9:80–92
Genetic differences in a tail suspension test for evaluating antidepressant activity. Trullas R, et al. **Psychopharmacology (Berlin)** 1989;99(2):287–8
Self–schema in irritable bowel syndrome and depression. Toner BB, et al. **Psychosom Med** 1990 Mar–Apr; 52(2):149–55
Frequency of constipation in major depression: relationship to other clinical variables. Garvey M, et al. **Psychosomatics** 1990 Spring;31(2):204–6
Neurasthenia in the 1980s: chronic mononucleosis, chronic fatigue syndrome, and anxiety and depressive disorders. Greenberg DB. **Psychosomatics** 1990 Spring;31(2):129–37 (55 ref.)
Psychiatric syncope: a new look at an old disease. Linzer M, et al. **Psychosomatics** 1990 Spring;31(2):181–8
Primary fibromyalgia syndrome—a variant of depressive disorder? Alfici S, et al. **Psychother Psychosom** 1989; 51(3):156–61
Alexithymia: subscales and relationship to depression. Haviland MG, et al. **Psychother Psychosom** 1988; 50(3):164–70
From anomie to anomia and anomic depression: a sociological critique on the use of anomie in psychiatric research. Deflem M. **Soc Sci Med** 1989;29(5):627–34
Social and environmental factors and atypical depression in old age. Pahkala K, et al. **Z Gerontol** 1990 Jan–Feb; 23(1):43–9
[Reevaluation of melancholic depression] Staner L. **Acta Psychiatr Belg** 1988 Jul–Aug;88(4):313–40 (128 ref.) (Eng. Abstr.) (Fre)
[Anhedonia in psychiatry: a review] Loas G, et al. **Ann Med Psychol (Paris)** 1989 Sep;147(7):705–17 (72 ref.) (Eng. Abstr.) (Fre)
[Space and time in psychiatry. III. Qualitative study on temporality in depressive states] Marchais P. **Ann Med Psychol (Paris)** 1989 Dec;147(10):1087–91 (Fre)
[Clinical forms of major depressive states observed in the Ivory Coast. Classification trial] Megglé D, et al. **Ann Med Psychol (Paris)** 1989 Dec;147(10):1037–44 (Eng. Abstr.) (Fre)
[Factorial validation of the HARD scale in 2 groups of depressive patients] von Frenckell R, et al. **Encephale** 1989 Jul–Aug;15(4):423–5 (Eng. Abstr.) (Fre)
[Neonatology and maternal post–partum depression. Applications in the prevention of disturbances early interactions] Blanchon YC, et al. **Pediatrie** 1989; 44(7):569–72 (Eng. Abstr.) (Fre)
[Children of depressed parents] Guedeney N. **Psychiatr Enfant** 1989;32(1):269–309 (82 ref.) (Eng. Abstr.) (Fre)
[Experimental approach to depression in adolescents] Vaughan C. **Rev Med Suisse Romande** 1989 Oct; 109(10):819–22 (Fre)
[Locus of control of depressive patients in a cross–cultural comparison] Räder KK, et al. **Fortschr Neurol Psychiatr** 1990 Jun;58(6):207–14 (Eng. Abstr.) (Ger)
[Depression and anxiety. Psychopathologic studies of anxiety experience of melancholic and neurotic patients] Kuhs H. **Monogr Gesamtgeb Psychiatr (Berlin)** 1990;59:1–210 (Ger)
[Age–related psychopathologic peculiarities in endogenous and neurotic–reactive depression in advanced age] Bron B. **Nervenarzt** 1990 Mar;61(3):170–5 (Ger)
[Anorexia nervosa and depression. On the relation of body weight and depressive symptoms] Herpertz–Dahlmann B, et al. **Nervenarzt** 1989 Aug;60(8):490–5 (Eng. Abstr.) (Ger)
[Subjective aspects of psychopathologic research. A method for assessing anxiety in melancholic patients] Kuhs H. **Nervenarzt** 1990 Jul;61(7):402–7 (25 ref.) (Eng. Abstr.) (Ger)
[The pre–suicidal psychological state] Modestin J. **Nervenarzt** 1990 Mar;61(3):159–63 (24 ref.) (Ger)
[Melancholic structure type as a personality characteristic in patients with migraine] Schäfer ML. **Nervenarzt** 1990 Jul;61(7):408–12 (Ger)
[Depressive syndromes in adolescents] Branik E. **Prax Kinderpsychol Kinderpsychiatr** 1990 Apr;39(4):126–32 (Eng. Abstr.) (Ger)
[Depression and anxiety—a study for validating subtypes of depression] Katschnig H, et al. **Psychiatr Prax** 1990 Jul; 17(4):136–43 (Eng. Abstr.) (Ger)
[Suicidal risk in endogenous, neurotic and reactive depression in advanced age] Bron B. **Schweiz Arch Neurol Psychiatr** 1990;141(3):229–53 (Eng. Abstr.) (Ger)
[Depressive disorder of the epilepsy patient—symptoms and factors of influence] Möller AA, et al. **Schweiz Arch Neurol Psychiatr** 1990;141(2):139–48 (Eng. Abstr.) (Ger)
[Gerontopsychiatry (editorial)] Oesterreich K. **Z Gerontol** 1989 Sep–Oct;22(5):221 (Ger)
[The structure of depressive affect in puberty using the German Children's Depression Inventory] Lobert W. **Z Kinder Jugendpsychiatr** 1990 Mar;18(1):18–22 (Eng. Abstr.) (Ger)
[Psychological effects of military low altitude flight practice on children] Poustka F, et al. **Z Kinder Jugendpsychiatr** 1990 Jun;18(2):61–70 (Eng. Abstr.) (Ger)
[Phenomenologic findings in melancholia in relation to empirical studies] Kuhs H. **Z Klin Psychol Psychopathol Psychother** 1990;38(2):135–45 (Eng. Abstr.) (Ger)
[2 sample configuration frequency analysis: solitary and complementary discriminant types of treatment and control groups] Lautsch E, et al. **Z Klin Psychol Psychopathol Psychother** 1990;38(2):155–60 (Eng. Abstr.) (Ger)
[Social adaptation of patients with recurrent depressive episodes] Fagiani MB, et al. **Minerva Psichiatr** 1989 Oct–Dec;30(4):257–71 (52 ref.) (Eng. Abstr.) (Ita)
[Various elements of behavior patterns in obesity] Brodziak A, et al. **Pol Arch Med Wewn** 1987 Sep;78(3):121–9 (Eng. Abstr.) (Pol)

[Psychosocial conditions of attempted suicide among children and adolescents in the light of our studies] Komender J, et al. **Przegl Lek** 1989;46(11):762–5 (Eng. Abstr.) **(Pol)**

[Cognitive theories of depression. I. Beck's theory and the theory of susceptibility of Brown and Harris] Stach R, et al. **Psychiatr Pol** 1989 May–Jun;23(3):217–23 (16 ref.) **(Pol)**

[Cognitive theories of depression. Part II. Theory of learned helplessness. Testing critical analysis of a presented theory] Zieba A, et al. **Psychiatr Pol** 1989 Mar–Apr;23(2):133–9 **(Pol)**

[Psychopathology of endogenous anesthetic depression] Baranov PA. **Zh Nevropatol Psikhiatr** 1990;90(4):66–71 (Eng. Abstr.) **(Rus)**

[Relation of emotional and cognitive processes in endogenous depression (results of the Rorschach test] Dragunskaia LS. **Zh Nevropatol Psikhiatr** 1990;90(4):92–5 (Eng. Abstr.) **(Rus)**

[Attempted suicide in depression] Kononchuk NV. **Zh Nevropatol Psikhiatr** 1990;90(4):76–80 (Eng. Abstr.) **(Rus)**

[Clinical aspects of paroxysmal states in children with depression] Mamtseva VN. **Zh Nevropatol Psikhiatr** 1989; 89(8):85–90 (Eng. Abstr.) **(Rus)**

[Emotional reactivity of patients with depression] Mikhallova ES, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):86–91 (Eng. Abstr.) **(Rus)**

[Psychopathological characteristics of the dysmorphophobia syndrome in attack-like progressive schizophrenia] Tazabekova ZhK. **Zh Nevropatol Psikhiatr** 1990;90(3):95–9 (Eng. Abstr.) **(Rus)**

[Aggression in depression] Trbović M. **Lijec Vjesn** 1989 Dec; 111(12):439–42 (Eng. Abstr.) **(Scr)**

[Personality and triggering life events in the affective psychoses] Chinchilla A, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Jul–Aug;17(4):237–44 (Eng. Abstr.) **(Spa)**

[The different quality of depressed mood . IV: The internal consistency of the index of pathologic sadness] Cordero Villafáfila A, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1990 Mar–Apr;18(2):100–2 (Eng. Abstr.) **(Spa)**

[The different quality of depressed humor. III: Factorial structure of the pathologic sadness index] Cordero Villafáfila A, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1990 Jan–Feb;18(1):26–8 (Eng. Abstr.) **(Spa)**

[The distinct quality of the depressed mood. I: Is it a myth or a reality? (a controlled study)] Ramos Brieva JA, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Nov–Dec;17(6):419–23 (Eng. Abstr.) **(Spa)**

[The distinct quality of the depressed mood. II: Predictive value of a pathologic sadness index] Ramos Brieva JA, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Nov–Dec;17(6):424–7 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Major depression and agoraphobia in patients with angiographically normal coronary arteries and panic disorder. Beitman BD, et al. **Can J Psychiatry** 1990 May; 35(4):298–304

Computerized tomography (CT) in affective disorders: relationship with psychopathology. Schlegel S, et al. **Psychiatry Res** 1989 Sep;29(3):271–2

Structural brain CT changes and cognitive deficits in elderly depressives with and without reversible dementia ('pseudodementia'). Pearlson GD, et al. **Psychol Med** 1989 Aug;19(3):573–84

RADIONUCLIDE IMAGING

99mTc-hexamethylpropyleneamine oxime single photon emission CT in poststroke depression. Schwartz JA, et al. **Am J Psychiatry** 1990 Feb;147(2):242–4

Clinical correlates of cerebral blood flow in depression. Reischies FM, et al. **Psychiatry Res** 1989 Sep;29(3):323–6

Regional cerebral blood flow in endogenous psychoses: a Tc-99m HMPAO-SPECT pilot study. Schroeder J, et al. **Psychiatry Res** 1989 Sep;29(3):331–3

REHABILITATION

Life stressors, social resources, coping, and the 4-year course of unipolar depression. Swindle RW Jr, et al. **J Abnorm Psychol** 1989 Nov;98(4):468–77

The efficacy of L-tryptophan in the reduction of sleep disturbance and depressive state in alcoholic patients. Asheychik R, et al. **J Stud Alcohol** 1989 Nov;50(6):525–32

Depressive symptoms during buprenorphine treatment of opioid abusers. Kosten TR, et al. **J Subst Abuse Treat** 1990; 7(1):51–4

Psychological factors in cardiac rehabilitation. Conroy R, et al. **Practitioner** 1989 May 22;233(1469):748–52

How can we best help other physicians? Talmadge JM. **Tex Med** 1990 Jun;86(6):54–5

SURGERY

What's so special about two years anyway? [letter; comment] Bridges P. **Br J Psychiatry** 1989 Jun;154:884–5 Comment on: Br J Psychiatry 1988 Sep;153:287–97.

Outcome in unipolar affective disorder after stereotactic tractotomy. Lovett LM, et al. **Br J Psychiatry** 1989 Oct; 155:547–50

THERAPY

Preliminary experience with the treatment of depression by bright light. Ryšánek R, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):289–90

Acute effect of electroconvulsive therapy on brain perfusion assessed by Tc99m-hexamethylpropyleneamineoxim and single photon emission computed tomography. Bajc M, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):421–6

Electroconvulsive therapy and cerebral computed tomography. A prospective study. Bergsholm P, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):566–72

Partial sleep deprivation to prevent 48-hour mood cycles. Churchill CM, et al. **Acta Psychiatr Scand** 1990 Apr; 81(4):398–9

Effects of phosphatidylserine therapy in geriatric patients with depressive disorders. Maggioni M, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):265–70

The effects of total sleep deprivation and subsequent treatment with clomipramine on depressive symptoms and sleep electroencephalography in patients with a major depressive disorder. Riemann D, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):24–31

The antidepressant potential of oral S-adenosyl-l-methionine. Rosenbaum JF, et al. **Acta Psychiatr Scand** 1990 May;81(5):432–6

Visuospatial impairment in depression: a controlled ECT study. Rossi A, et al. **Acta Psychiatr Scand** 1990 Mar; 81(3):245–9

Intracardiac thrombi in patients undergoing electroconvulsive therapy. Mensah GA, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):684–5

Psychotherapy for depression [letter] **Am J Psychiatry** 1990 Oct;147(10):1385–6

Comments on antidepressant response to sleep deprivation [letter] **Am J Psychiatry** 1990 Aug;147(8):1102–3

Right versus left unilateral ECT [letter] Andrade C, et al. **Am J Psychiatry** 1990 Oct;147(10):1382

Antidepressant and cognitive behavior therapy for an AIDS patient [letter] Bhugra D, et al. **Am J Psychiatry** 1990 Feb; 147(2):256

Electroconvulsive therapy of three patients with aortic valve prostheses. Blachly PH, et al. **Am J Psychiatry** 1967 Aug; 124(2):233–6

Adequacy of pharmacological treatment [letter; comment] Bradwejn J, et al. **Am J Psychiatry** 1990 Jul;147(7):953–4 Comment on: Am J Psychiatry 1989 Oct;146(10):1274–9.

Caffeine augmentation of ECT. Coffey CE, et al. **Am J Psychiatry** 1990 May;147(5):579–85

Toward a clinical model of psychotherapy for depression, II: An integrative and selective treatment approach. Karasu TB. **Am J Psychiatry** 1990 Mar;147(3):269–78

Toward a clinical model of psychotherapy for depression, I: Systematic comparison of three psychotherapies. Karasu TB. **Am J Psychiatry** 1990 Feb;147(2):133–47 (81 ref.)

The psychiatric patient's right to effective treatment: implications of Osheroff v. Chestnut Lodge [see comments] Klerman GL. **Am J Psychiatry** 1990 Apr;147(4):409–18 Comment in: Am J Psychiatry 1990 Apr;147(4):419–27.

Treatment of depression in patients with dementia [letter; comment] [see comments] Lam RW. **Am J Psychiatry** 1990 Jan;147(1):130–1 Comment on: Am J Psychiatry 1989 Aug;146(8):1079. Comment in: Am J Psychiatry 1990 Jun;147(6):814.

Preventilation of oxygen in electroconvulsive treatment: a suggested modification of technique. McAndrew J, et al. **Am J Psychiatry** 1967 Aug;124(2):251–2

The prediction of response to electroconvulsive therapy. Mendels J. **Am J Psychiatry** 1967 Aug;124(2):153–9

Marital therapy: a viable treatment for depression and marital discord. O'Leary KD, et al. **Am J Psychiatry** 1990 Feb; 147(2):183–6

Evidence for less improvement in depression in patients taking benzodiazepines during unilateral ECT. Pettinati HM, et al. **Am J Psychiatry** 1990 Aug;147(8):1029–35

Computer-administered cognitive-behavioral therapy for depression. Selmi PM, et al. **Am J Psychiatry** 1990 Jan; 147(1):51–6

Personality disorders and treatment outcome in the NIMH Treatment of Depression Collaborative Research Program. Shea MT, et al. **Am J Psychiatry** 1990 Jun;147(6):711–8

Law, science, and psychiatric malpractice: a response to Klerman's indictment of psychoanalytic psychiatry [comment] Stone AA. **Am J Psychiatry** 1990 Apr; 147(4):419–27 Comment on: Am J Psychiatry 1990 Apr;147(4):409–18.

National Institute of Mental Health Treatment of Depression Collaborative Research Program. General effectiveness of treatments [see comments] Elkin I, et al. **Arch Gen Psychiatry** 1989 Nov;46(11):971–82; discussion 983 Comment in: Arch Gen Psychiatry 1990 Jul;47(7):682–8.

Corrections and additions to the history of light therapy and seasonal affective disorder [letter] Kern HE, et al. **Arch Gen Psychiatry** 1990 Jan;47(1):90–1

NIMH collaborative research on treatment of depression [comment] Klein DF. **Arch Gen Psychiatry** 1990 Jul; 47(7):682–8 Comment on: Arch Gen Psychiatry 1989 Nov;46(11):971–82; discussion 983.

Normalization of blunted lymphocyte beta-adrenergic responsivity in melancholic inpatients by a course of electroconvulsive therapy. Mann JJ, et al. **Arch Gen Psychiatry** 1990 May;47(5):461–4

Déjà vu in depression research [letter] Rashkis HA. **Arch Gen Psychiatry** 1990 Jul;47(7):688

Morning vs evening light treatment for winter depression. Evidence that the therapeutic effects of light are mediated by circadian phase shifts. Sack RL, et al. **Arch Gen Psychiatry** 1990 Apr;47(4):343–51

The effectiveness of services and treatment in psychogeriatrics. Draper B. **Aust N Z J Psychiatry** 1990 Jun;24(2):238–51 (121 ref.)

Treatment of seasonal affective disorder with light: preliminary Australian experience. McIntyre IM, et al. **Aust N Z J Psychiatry** 1989 Sep;23(3):369–72

Psychological strategies in the prevention and treatment of postnatal depression. Elliott SA. **Baillieres Clin Obstet Gynaecol** 1989 Dec;3(4):879–903 (69 ref.)

Waking in a lighted room [letter] Jacobsen FM. **Biol Psychiatry** 1990 Feb 1;27(3):372–4

ECT seizure monitoring [letter] Kramer BA, et al. **Biol Psychiatry** 1989 Dec;26(8):848–50

A placebo-controlled evaluation of vasopressin for ECT-induced memory impairment. Mattes JA, et al. **Biol Psychiatry** 1990 Feb 1;27(3):289–303

Effect of the anesthetic agent propofol on hormonal responses to ECT. Mitchell P, et al. **Biol Psychiatry** 1990 Aug 15;28(4):315–24

Effect of hyperventilation on seizure length during electroconvulsive therapy. Pande AC, et al. **Biol Psychiatry** 1990 Apr 1;27(7):799–801

A preliminary magnetic resonance imaging study of ECT-treated depressed patients. Pande AC, et al. **Biol Psychiatry** 1990 Jan 1;27(1):102–4

Effects of light treatment on core body temperature in seasonal affective disorder. Rosenthal NE, et al. **Biol Psychiatry** 1990 Jan 1;27(1):39–50

Fall in free thyroxine after ECT: real effect or an artefact of assay? Scott AI, et al. **Biol Psychiatry** 1990 Apr 1; 27(7):784–6

The effects of sleep deprivation and sleep on depressive mood and subjective arousal. Van den Hoofdakker RH, et al. **Biol Psychiatry** 1989 Nov;26(7):733–6

Depression and the menopause. Gath D, et al. **BMJ** 1990 May 19;300(6735):1287–8 (24 ref.)

Psychological treatment for depressive disorder. Gelder MG. **BMJ** 1990 Apr 28;300(6732):1087–8 (18 ref.)

Psychological treatment for depressive disorder [letter] Snaith RP, et al. **BMJ** 1990 Jun 16;300(6739):1587–8

The Second Sheffield Psychotherapy Project: rationale, design and preliminary outcome data. Shapiro DA, et al. **Br J Med Psychol** 1990 Jun;63 (Pt 2):97–108

The role of electroconvulsive therapy in the treatment of depressive illness in old age [see comments] Benbow SM. **Br J Psychiatry** 1989 Aug;155:147–52 (60 ref.) Comment in: Br J Psychiatry 1989 Nov;155:713–4.

Treatment of depressed in-patients. Cognitive therapy plus medication, relaxation plus medication, and medication alone. Bowers WA. **Br J Psychiatry** 1990 Jan;156:73–8

Social support and the outcome of major depression. George LK, et al. **Br J Psychiatry** 1989 Apr;154:478–85

Prediction of response to electroconvulsive therapy. Preliminary validation of a sign-based typology of depression. Hickie I, et al. **Br J Psychiatry** 1990 Jul; 157:65–71

EEG monitoring of ECT [letter; comment] Jones EM. **Br J Psychiatry** 1989 Jun;154:880–1 Comment on: Br J Psychiatry 1989 Feb;154:229–31.

Australian depression [letter] Kiloh LG, et al. **Br J Psychiatry** 1989 Aug;155:264

Better to be depressed in the sun [letter] Lament R. **Br J Psychiatry** 1989 Dec;155:867

Better to be depressed in Australia... [letter] Lee AS, et al. **Br J Psychiatry** 1989 Jul;155:123–4

ECT in old age [letter; comment] Malcolm K, et al. **Br J Psychiatry** 1989 Nov;155:713–4 Comment on: Br J Psychiatry 1989 Aug;155:147–52.

Treatment of depression. The relevance of research for clinical practice. Paykel ES. **Br J Psychiatry** 1989 Dec; 155:754–63 (80 ref.)

... or not? [letter] Ramana R, et al. **Br J Psychiatry** 1989 Jul;155:124–5

Time course of cerebra; magnetic resonance changes after electroconvulsive therapy. Scott AI, et al. **Br J Psychiatry** 1990 Apr;156:551–3

Would monitoring by electroencephalogram improve the practice of electroconvulsive therapy? Scott AI, et al. **Br J Psychiatry** 1989 Jun;154:853–7

Status epilepticus after electroconvulsive therapy. Scott AI, et al. **Br J Psychiatry** 1989 Jul;155:119–21

Phototherapy, winter depression and ocular pressure [letter] Stojek A, et al. **Br J Psychiatry** 1990 Jul;157:152

Which patients will respond to ECT? [letter; comment] Yatham LN, et al. **Br J Psychiatry** 1989 Jun;154:879–80 Comment on: Br J Psychiatry 1989 Jan;154:8–17.

Neurobiologic effects of bright artificial light. Dilsaver SC. **Brain Res Brain Res Rev** 1989 Oct–Dec;14(4):311–33

Effects of ECT on prolactin, LH, FSH and testosterone in males with major depressive illness. Cooper AJ, et al. **Can J Psychiatry** 1989 Nov;34(8):814–7

Electroconvulsive therapy in depression. Persad E. **Can J Psychiatry** 1990 Mar;35(2):175–82 (74 ref.)

Manipulations of sleep and phototherapy: nonpharmacological alternatives in the treatment of depression. Wehr TA. **Clin Neuropharmacol** 1990;13 Suppl 1:S54–65 (45 ref.)
Treatment response of high cognitive dysfunction depressed inpatients. Miller IW, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):62–71
Psychiatric depression, anxiety, and coronary heart disease. Carney RM, et al. **Compr Ther** 1989 Nov;15(11):8–13 (42 ref.)
Comments on the paper by Möller et al. (1989): problems in single–case evaluation. Krauth J. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):391–4; discussion 395–7
The effect of ECT on plasma cyclic nucleotides: a simulated ECT controlled study in melancholic patients. Lykouras L, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):343–6
Single–case evaluation of sleep–deprivation effects by means of nonparametric time–series analysis (according to the HTAKA model). Möller HJ, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(2):133–9
Combining day patient treatment with family work in a child psychiatry clinic. Place M, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):373–8
Effect of exercise on depression. North TC, et al. **Exerc Sport Sci Rev** 1990;18:379–415 (85 ref.)
Recognition and treatment of depression in Alzheimer's disease. Harris MJ, et al. **Geriatrics** 1989 Dec;44(12):26–30 (20 ref.)
Electroconvulsive therapy: an update. Coffey CE, et al. **Hosp Community Psychiatry** 1990 May;41(5):515–21 (63 ref.)
Outpatient electroconvulsive therapy: a cost–saving alternative. Kramer BA. **Hosp Community Psychiatry** 1990 Apr;41(4):361–3
A randomized clinical trial of inpatient family intervention. V. Results for affective disorders. Clarkin JF, et al. **J Affective Disord** 1990 Jan;18(1):17–28
The effects of phototherapy in the general population. Kasper S, et al. **J Affective Disord** 1990 Mar;18(3):211–9
Does melancholia predict response in major depression? Nelson JC, et al. **J Affective Disord** 1990 Mar;18(3):157–65
Clinical experience with phototherapy. Stinson D, et al. **J Affective Disord** 1990 Feb;18(2):129–35
Sleep deprivation in bright and dim light: antidepressant effects on major depressive disorder. van den Burg W, et al. **J Affective Disord** 1990 Jun;19(2):109–17
Effect of bright white light therapy on non–seasonal depressive disorder. Preliminary results. Volz HP, et al. **J Affective Disord** 1990 May;19(1):15–21
A review of ECT for children and adolescents. Bertagnoli MW, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar; 29(2):302–7 (48 ref.)
Electroconvulsive therapy in octogenarians. Cattan RA, et al. **J Am Geriatr Soc** 1990 Jul;38(7):753–8
Effectiveness of matched, mismatched, and package treatments of depression. Nelson–Gray RO, et al. **J Behav Ther Exp Psychiatry** 1989 Dec;20(4):281–94
ECT in a patient with aortic aneurysm. Devanand DP, et al. **J Clin Psychiatry** 1990 Jun;51(6):255–6
Caffeine–modified electroconvulsive therapy in depressed patients with medical illness. Lurie SN, et al. **J Clin Psychiatry** 1990 Apr;51(4):154–7
Combining antidepressants and psychotherapy: rationale and strategies. Perry S. **J Clin Psychiatry** 1990 Jan;51 Suppl:16–20 (30 ref.)
Electroconvulsive therapy in a patient with severe tic and major depressive episode. Swerdlow NR, et al. **J Clin Psychiatry** 1990 Jan;51(1):34–5
Relapse and recurrence in unipolar major depression: short–term and long–term approaches. Thase ME. **J Clin Psychiatry** 1990 Jun;51 Suppl:51–7; discussion 58–9 (55 ref.)
Improvement after evaluation in psychotherapy of depression: evidence of a placebo effect? Beckham EE. **J Clin Psychol** 1989 Nov;45(6):945–50
Can bright light be conceptualized as a pharmacological treatment? [letter] Dilsaver SC. **J Clin Psychopharmacol** 1989 Oct;9(5):390–2
Comparative studies on the efficacy of psychotherapy, pharmacotherapy, and their combination in depression: was adequate pharmacotherapy provided? Meterissian GB, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):334–9 (61 ref.)
The impact of medication resistance and continuation pharmacotherapy on relapse following response to electroconvulsive therapy in major depression. Sackeim HA, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):96–104
Electroconvulsive therapy complicated by insecticide ingestion [letter] Ware MR, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):72–3
Maintenance of gains versus relapse following brief psychotherapy for depression. Gallagher–Thompson D, et al. **J Consult Clin Psychol** 1990 Jun;58(3):371–4
Mode–specific effects among three treatments for depression. Imber SD, et al. **J Consult Clin Psychol** 1990 Jun; 58(3):352–9
Treatment of affective illness in the elderly with drugs and electroconvulsive therapy. Jenike MA. **J Geriatr Psychiatry** 1989;22(1):77–112; discussion 113–20 (100 ref.)
Electroconvulsive therapy in South Carolina [letter] Keller CH, et al. **J S C Med Assoc** 1990 Jun;86(6):371
From the Alcohol, Drug Abuse, and Mental Health Administration. Goodwin FK. **JAMA** 1990 Jun 20; 263(23):3130
The treatment of depression and anxiety [editorial] Byrne G, et al. **Med J Aust** 1989 Oct 2;151(7):362–3
The management of depression: a review of pharmacological and non–pharmacological treatments. Johnson GF, et al. **Med J Aust** 1989 Oct 2;151(7):397–400, 403, 406 (29 ref.)
Autonomy lost. Rollie TR. **Minn Med** 1990 Aug;73(8):15–6
How does convulsive therapy work? [see comments] Fink M. **Neuropsychopharmacology** 1990 Apr;3(2):73–82 (74 ref.) Comment in: Neuropsychopharmacology 1990 Apr;3(2):83–7; discussion 97–9. Comment in: Neuropsychopharmacology 1990 Apr;3(2):89–92; discussion 97–9. Comment in: Neuropsychopharmacology 1990 Apr;3(2):93–5; discussion 97–9.
The impact of group reminiscence counseling on a depressed elderly population. Youssef FA. **Nurse Pract** 1990 Apr; 15(4):32, 35–8
Response to total sleep deprivation before and during treatment with fluvoxamine or maprotiline in patients with major depression—results of a double–blind study. Kasper S, et al. **Pharmacopsychiatry** 1990 May;23(3):135–42
Effect of bright white light on non–seasonal depressive disorder. Mackert A, et al. **Pharmacopsychiatry** 1990 May; 23(3):151–4
The influence of phototherapy on serotonin and melatonin in non–seasonal depression. Rao ML, et al. **Pharmacopsychiatry** 1990 May;23(3):155–8
Bright light therapy for winter depression: potential ocular effects and theoretical implications. Terman M, et al. **Photochem Photobiol** 1990 Jun;51(6):781–92 (101 ref.)
The behavioral treatment of unipolar depression in adult outpatients. Antonuccio DO, et al. **Prog Behav Modif** 1989; 24:152–91 (167 ref.)
Therapeutic sleep deprivation in depressives, restricted to the two nocturnal hours between 3:00 and 5:00. Giedke H, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(1):37–47
Depression: when is psychotherapy not enough? Kantor SJ. **Psychiatr Clin North Am** 1990 Jun;13(2):241–54
Integrating psychopharmacotherapy, psychotherapy, and mental structure in the treatment of patients with personality disorders and depression. Marcus ER. **Psychiatr Clin North Am** 1990 Jun;13(2):255–63 (21 ref.)
Major depression in childhood and adolescence. Moreau DL. **Psychiatr Clin North Am** 1990 Jun;13(2):355–68
Depression in schizophrenia: current guidelines to treatment. Bartels SJ, et al. **Psychiatr Q** 1989 Winter;60(4):337–57 (140 ref.)
Total sleep deprivation and thyroid function in depression [letter]. Kaschka WP, et al. **Psychiatry Res** 1989 Aug; 29(2):231–4
Medication resistance and clinical response to electroconvulsive therapy. Prudic J, et al. **Psychiatry Res** 1990 Mar;31(3):287–96
Prediction of the antidepressant response to total sleep deprivation by diurnal variation of mood. Reinink E, et al. **Psychiatry Res** 1990 May;32(2):113–24
Oxytocin and vasopressin responses to ECT [letter] Smith JE, et al. **Psychiatry Res** 1990 May;32(2):201–2
Psychotherapy for the treatment of depression: a comprehensive review of controlled outcome research. Robinson LA, et al. **Psychol Bull** 1990 Jul;108(1):30–49 (360 ref.)
Electrode placement in ECT: cognitive effects. Lawson JS, et al. **Psychol Med** 1990 May;20(2):335–44
Effects of light treatment upon mood and melatonin in patients with seasonal affective disorder. Winton F, et al. **Psychol Med** 1989 Aug;19(3):585–90
Psychotherapy of depression: a self–confirmation model. Andrews JD. **Psychol Rev** 1989 Oct;96(4):576–607
Diminished TSH release after a course of ECT: altered monoamine function or seizure activity? Scott AI, et al. **Psychoneuroendocrinology** 1989;14(6):425–31
Electroconvulsive therapy for a depressed patient with global aphasia [letter] Herrmann N. **Psychosomatics** 1990 Winter; 31(1):115–6
Benefits of exercise for the treatment of depression. Martinsen EW. **Sports Med** 1990 Jun;9(6):380–9 (49 ref.)
Electroconvulsive therapy use during pregnancy [letter] Kramer BA. **West J Med** 1990 Jan;152(1):77
[ECT: efficacy and stability of therapeutic results] Peyré F, et al. **Ann Med Psychol (Paris)** 1989 Aug;147(6):691–8 (43 ref.) (Fre)
[Bright light therapy in schizophrenic diseases] Heim M. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Mar; 42(3):146–50 (Eng. Abstr.) (Ger)
[Repeating antidepressive sleep deprivation therapy (partial sleep deprivation)] Telger K, et al. **Psychiatr Prax** 1990 May;17(3):121–5 (Eng. Abstr.) (Ger)
[Sleep deprivation: temporal aspects of partial sleep deprivation in the treatment of depression] Fischer H, et al. **Schweiz Arch Neurol Psychiatr** 1990;141(4):351–9 (Ger)
[Psychodynamic and general psychotherapeutic aspects of the treatment of depressive patients] Wolfersdorf M, et al. **Schweiz Rundsch Med Prax** 1990 Mar 13;79(11):318–25 (Eng. Abstr.) (Ger)
[Recent aspects of biological treatment of depression] Pöldinger W. **Ther Umsch** 1990 Mar;47(3):233–40 (51 ref.) (Eng. Abstr.) (Ger)
[Cognitive therapy of depressive disorders] Inoue K. **Seishin Shinkeigaku Zasshi** 1989;91(9):647–54 (Jpn)
[Group therapy of depressive disorders] Kitanishi K, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):655–60 (Jpn)
[Physiopathology and therapeutic countermeasures in depressive disorders and an animal model] Nomura S, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):634–8 (Jpn)
[Equipment for electroconvulsive therapy] Afeltowicz Z. **Psychiatr Pol** 1989 Jan–Feb;23(1):70 (Pol)
[Psychodiagnosis and psychotherapy in medico–social adaptation of patients with hemorrhagic diseases] Germanov VA, et al. **Gematol Transfuziol** 1990 Mar; 35(3):33–6 (Eng. Abstr.) (Rus)
[Neurophysiologic changes during the treatment of endogenous depression by reflexotherapy] Dudaeva KI, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):99–103 (Eng. Abstr.) (Rus)
[A reduced variant of convulsive therapy with ammonium chloride in patients with neurotic depression] Saarma IuM, et al. **Zh Nevropatol Psikhiatr** 1990;90(5):69–73 (Eng. Abstr.) (Rus)
[Therapy of resistant depression] Loga S. **Med Arh** 1985; 39(6):253–6 (Eng. Abstr.) (Scr)
[Refractory depression: therapeutic alternatives] López–Ibor Aliño JJ, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Jul–Aug;17(4):223–30 (Eng. Abstr.) (Spa)

URINE

Urinary phenylacetic acid in panic disorder with and without depression. Sabelli HC, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):14–6
Methylene blue excretion in depression [letter] Moody JP, et al. **Biol Psychiatry** 1989 Dec;26(8):850–2
Sulphatoxy melatonin: an index of depression in anorexia nervosa and bulimia nervosa. Kennedy SH, et al. **Psychiatry Res** 1990 Jun;32(3):221–7
Differential rates of urinary noradrenalin excretion in affective disorders: utility of a short time sampling procedure. Lista AL. **Psychiatry Res** 1989 Dec;30(3):253–8

DEPRESSIVE SYMPTOMS see **DEPRESSION**

DEPRESSIVE SYNDROME see **DEPRESSIVE DISORDER**

DEPTH INTOXICATION see **INERT GAS NARCOSIS**

DEPTH PERCEPTION

Projective invariance and visual shape constancy. Niall KK, et al. **Acta Psychol (Amst)** 1989 Sep;72(1):65–79
Enhancing the impact of visual extra–maze cues in a spatial orientation task. Etienne AS, et al. **Behav Brain Res** 1990 May 28;38(3):199–210
A three–component–system hypothesis of psychosis. Impairment of binocular depth inversion as an indicator of a functional dysequilibrium. Emrich HM. **Br J Psychiatry Suppl** 1989 Jul;(5):37–9 (23 ref.)
Prospective assessment of acuity and stereopsis in amblyopic infantile esotropes following early surgery. Birch EE, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):758–65
Fundamentals of stereophotography in medicine. Morton R. **J Audiov Media Med** 1989 Jan;12(1):11–4
Comparable measurement scales in task–comparison experiments [comment] Nelson TO. **J Exp Psychol [Gen]** 1990 Mar;119(1):25–9 Comment on: J Exp Psychol [Gen] 1990 Mar;119(1):5–24.
Implicit memory for unfamiliar objects depends on access to structural descriptions [see comments] Schacter DL, et al. **J Exp Psychol [Gen]** 1990 Mar;119(1):5–24 Comment in: J Exp Psychol [Gen] 1990 Mar;119(1):25–9.
On the distinction between artifacts and information [see comments] Braunstein ML, et al. **J Exp Psychol [Hum Percept]** 1990 Feb;16(1):211–6 Comment in: J Exp Psychol [Hum Percept] 1990 May;16(2):445–50.
Ratings of kinetic depth in multidot displays. Dosher BA, et al. **J Exp Psychol [Hum Percept]** 1989 Nov;15(4):816–25
Perceived depth inversion of smoothly curved surfaces due to image orientation. Reichel FD, et al. **J Exp Psychol [Hum Percept]** 1990 Aug;16(3):653–64
How to study the kinetic depth effect experimentally [comment] Sperling G, et al. **J Exp Psychol [Hum Percept]** 1990 May;16(2):445–50 Comment on: J Exp Psychol [Hum Percept] 1990 Feb;16(1):211–6.
Kinetic depth effect and identification of shape. Sperling G, et al. **J Exp Psychol [Hum Percept]** 1989 Nov;15(4):826–40
Visual perception of smoothly curved surfaces from double–projected contour patterns. Todd JT, et al. **J Exp Psychol [Hum Percept]** 1990 Aug;16(3):665–74
Illusion reversal rate as a function of subjective depth. Borresen CR. **J Gen Psychol** 1990 Jan;117(1):39–46
Neural model of stereoacuity and depth interpolation based on a distributed representation of stereo disparity. Lehky SR, et al. **J Neurosci** 1990 Jul;10(7):2281–99
Estimating illuminant direction and degree of surface relief. Knill DC. **J Opt Soc Am [A]** 1990 Apr;7(4):759–75
Stereoacuity testing in the monofixation syndrome. Clarke WN, et al. **J Pediatr Ophthalmol Strabismus** 1990 May–Jun; 27(3):161–3

Depth perception by motion parallax and paradoxical parallax in the locust. Sobel EC. **Naturwissenschaften** 1990 May;77(5):241–3

An evaluation of techniques for measuring stereopsis in infants and young children. Broadbent H, et al. **Ophthalmic Physiol Opt** 1990 Jan;10(1):3–7

Depth reversals with an equiluminant Necker cube. Brigner WL, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1088

Depth cues of disparity and relative size added to Necker cube. Brigner WL, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):872–4

Use of subjective information in scientific psychology: III. The internal image during visual perception: an introspectionist analysis. Gillespie G. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):963–83

Sex-related differences in spatial ability: more evidence for convergence. Stumpf H, et al. **Percept Mot Skills** 1989 Dec; 69(3 Pt 1):915–21

Integration of stereo and texture cues in the formation of discontinuities during three-dimensional surface interpolation. Buckley D, et al. **Perception** 1989; 18(5):563–88

The importance of velocity gradients in the perception of three-dimensional rigidity. De Bruyn B, et al. **Perception** 1990;19(1):21–7

Geometric restitution of perspective: Bartel's method. Deręgowski JB. **Perception** 1989;18(5):595–600

Emmert's law in the Ames room. Dwyer J, et al. **Perception** 1990;19(1):35–41

Perceptual linkage of multiple objects rotating in depth. Eby DW, et al. **Perception** 1989;18(4):427–44

Flicker adaptation in the periphery at constant perceived modulation depth. Hammett ST, et al. **Perception** 1990; 19(1):113–7

Structure from stereo by associative learning of the constraints. O'Toole AJ. **Perception** 1989;18(6):767–82

Stereoscopic illusion based on the proximity principle. Papathomas TV, et al. **Perception** 1989;18(5):589–94

Illusory contours from pictorially three-dimensional inducing elements. Parks TE, et al. **Perception** 1990;19(1):119–21

An illusion of goose orientation. Post RB, et al. **Perception** 1990;19(1):133

Vertical disparity, egocentric distance and stereoscopic depth constancy: a new interpretation. Bishop PO. **Proc R Soc Lond [Biol]** 1989 Sep 22;237(1289):445–69 (43 ref.)

The appearance of surfaces specified by motion parallax and binocular disparity. Rogers BJ, et al. **Q J Exp Psychol [A]** 1989 Nov;41(4):697–717

Binocular depth reversals despite familiarity cues: an artifact? **Science** 1990 Aug 3;249(4968):565–6

Stereoscopic depth discrimination in the visual cortex: neurons ideally suited as disparity detectors. Ohzawa I, et al. **Science** 1990 Aug 31;249(4972):1037–41

Global stereopsis in human albinos. Apkarian P, et al. **Vision Res** 1989;29(10):1359–70

[Strabismus and stereopsis] Gan XL. **Chung Hua Yen Ko Tsa Chih** 1990 Jan;26(1):29–31 (Eng. Abstr.) **(Chi)**

[Effect of visual acuity degradation on stereoacuity] Wang LH, et al. **Chung Hua Yen Ko Tsa Chih** 1990 Mar;26(2):76–9 (Eng. Abstr.) **(Chi)**

[Case finding of amblyopia in young children using the TNO-depth-vision-test] Hirasing RA, et al. **Ned Tijdschr Geneeskd** 1990 Aug 4;134(31):1505–8 (Eng. Abstr.) **(Dut)**

[Oculomotor equilibrium and aviation activities] Maille M, et al. **Ophtalmologie** 1989 Apr-May;3(2):109–10 (Eng. Abstr.) **(Fre)**

[Difficulty in the implantation of intraocular lenses by "hidden" parallax] Bastian GO. **Fortschr Ophthalmol** 1989; 86(4):316–8 (Eng. Abstr.) **(Ger)**

[Computer-assisted determination of parameters of depth perception: studies with the 3-rod device] Bastian GO, et al. **Fortschr Ophthalmol** 1989;86(4):387–91 (Eng. Abstr.) **(Ger)**

[Effect of visual acuity and changes in refraction following retinal surgery on binocular function] Schwaninger-Thill M, et al. **Klin Monatsbl Augenheilkd** 1989 Aug;195(2):68–71 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Blindsight in rodents: the use of a 'high-level' distance cue in gerbils with lesions of primary visual cortex. Carey DP, et al. **Behav Brain Res** 1990 May 28;38(3):283–9

Difficulties in the definition of 'stereoscotoma' using temporal detection of thresholds of dynamic random dot stereograms. Finlay DC, et al. **Doc Ophthalmol** 1989 Jun; 72(2):161–73

Effect of luminance and contrast on stereoscopic acuity. Geib T, et al. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(4):310–5

Limits of fusion and depth judgment in stereoscopic color displays. Yeh YY, et al. **Hum Factors** 1990 Feb;32(1):45–60

Success rates in testing monocular acuity and stereopsis in infants and young children. Shute R, et al. **Ophthalmic Physiol Opt** 1990 Apr;10(2):133–6

Stereopsis testing in 18- to 35-month-old children using operant preferential looking. Ciner EB, et al. **Optom Vis Sci** 1989 Nov;66(11):782–7

An investigation of the difference in stereoacuity between crossed and uncrossed disparities using Frisby and TNO tests. Larson WL. **Optom Vis Sci** 1990 Mar;67(3):157–61

Spatiotemporal properties of stereoacuity. Patterson R. **Optom Vis Sci** 1990 Feb;67(2):123–8

The analogy between stereo depth and brightness. Brookes A, et al. **Perception** 1989;18(5):601–14

A physiological correlate of the Pulfrich effect in cortical neurons of the cat. Carney T, et al. **Vision Res** 1989; 29(2):155–65

New phenomena linking depth and luminance in stereoscopic motion. Chang JJ. **Vision Res** 1990;30(1):137–47

Kinetic depth effect and optic flow—I. 3D shape from Fourier motion. Dosher BA, et al. **Vision Res** 1989; 29(12):1789–813

Is edge information for stereoacuity spatially channeled? Heckmann T, et al. **Vision Res** 1989;29(5):593–607

Visual field defects for unidirectional and oscillatory motion in depth. Hong X, et al. **Vision Res** 1989;29(7):809–19

Perceptual correlates of magnocellular and parvocellular channels: seeing form and depth in afterimages. Ingling CR Jr, et al. **Vision Res** 1990;30(6):823–8

Stereopsis and contrast. Legge GE, et al. **Vision Res** 1989; 29(8):989–1004

Finding the common bond: stereoacuity and the other hyperacuities. McKee SP, et al. **Vision Res** 1990; 30(6):879–91

Metacontrast masking between cyclopean and luminance stimuli. Patterson R, et al. **Vision Res** 1990;30(3):439–48

Interocular differences in contrast and spatial frequency: effects on stereopsis and fusion. Schor C, et al. **Vision Res** 1989;29(7):837–47

Occlusion and the solution to the aperture problem for motion. Shimojo S, et al. **Vision Res** 1989;29(5):619–26

Hyperacuity, superresolution and gap resolution in human stereopsis. Stevenson SB, et al. **Vision Res** 1989; 29(11):1597–605

[The development of stereoscopic vision in the first months of life] Reim M, et al. **J Fr Ophtalmol** 1989;12(10):623–7 (Eng. Abstr.) **(Fre)**

[Visual fatigue evaluation of field sequential stereoscopic 3D display using near point distance] Yamazaki T, et al. **Ann Physiol Anthropol** 1989 Jul;8(3):127–32 (Eng. Abstr.) **(Jpn)**

[Depth visual function and the relative accommodation reserves of patients before and after keratotomy] Gorgiladze TU, et al. **Oftalmol Zh** 1989;(5):312–5 (Eng. Abstr.) **(Rus)**

[A method for studying depth vision in an experiment in cats] Rychkov IL, et al. **Zh Vyssh Nerv Deiat** 1989 Sep-Oct;39(5):982–3 **(Rus)**

DEQUALINIUM see under **QUINOLINIUM COMPOUNDS**

DERCUM'S DISEASE see **ADIPOSIS DOLOROSA**

DERMABRASION

Wound dressing after skin planing. Cramers M. **Acta Derm Venereol (Stockh)** 1989;69(5):453–4

Facial resurfacing. Using the carbon dioxide laser. Spadoni D, et al. **AORN J** 1989 Nov;50(5):1007, 1009–13

Physical properties of aerosols produced by dermabrasion [published erratum appears in Arch Dermatol 1990 Apr;126(4):481] Wentzell JM, et al. **Arch Dermatol** 1989 Dec;125(12):1637–43

Dermabrasion after accutane [letter] Field LM, et al. **J Dermatol Surg Oncol** 1990 Aug;16(8):769–70

The stimulation of postdermabrasion wound healing with stabilized aloe vera gel-polyethylene oxide dressing. Fulton JE Jr. **J Dermatol Surg Oncol** 1990 May;16(5):460–7

The treatment of burn scar hypopigmentation and surface irregularity by dermabrasion and thin skin grafting. Onur Erol O, et al. **Plast Reconstr Surg** 1990 May;85(5):754–8

[Analysis on the results of facial skin abrasion therapy in 605 cases] Zha YK. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1985 Dec;1(4):261–2 **(Chi)**

[Postoperative treatment as an important factor in the prevention of adverse effects after dermabrasion of acne scars] Ibrulj-Prohić D. **Med Arh** 1989;43(1):23–6 (Eng. Abstr.) **(Scr)**

[Treatment of sebaceous adenoma using surgical planing] Regoje D, et al. **Med Arh** 1984;38(6):305–7 (Eng. Abstr.) **(Scr)**

INSTRUMENTATION

Sandpaper mounted on a safety razor: a simple device for dermabrasion. Mokal NJ, et al. **Br J Plast Surg** 1990 Jul; 43(4):502

METHODS

Discoid lupus erythematosus scarring and dermabrasion: a case report and discussion. Ratner D, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):314–6

Test spots in dermabrasion and chemical peeling. Swinehart JM. **J Dermatol Surg Oncol** 1990 Jun;16(6):557–63

NURSING

Facial dermabrasion. Modern techniques and protocols. McKinnon CC, et al. **AORN J** 1990 Mar;51(3):739–41, 744–5, 748–50

DERMACENTOR see under **TICKS**

DERMAL DRUG ADMINISTRATION see **ADMINISTRATION, CUTANEOUS**

DERMAL SINUS see **NEURAL TUBE DEFECTS**

DERMATAN SULFATE see under **CHONDROITIN**

DERMATITIS

Papular dermatitis of pregnancy: a case report. Nguyen LQ, et al. **J Am Acad Dermatol** 1990 Apr;22(4):690–1

Prurigo of pregnancy, papular dermatitis of pregnancy, and pruritic folliculitis of pregnancy. Black MM. **Semin Dermatol** 1989 Mar;8(1):23–5

COMPLICATIONS

Partial biotinidase deficiency associated with Coffin-Siris syndrome. Burlina AB, et al. **Eur J Pediatr** 1990 Jun; 149(9):628–9

"Wash leather scrotum" (scrotal dermatitis): a treatable cause of male infertility. Hendry WF, et al. **Fertil Steril** 1990 Feb;53(2):379–81

Papulosquamous dermatoses of AIDS. Sadick NS, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 2):1270–7 (25 ref.)

[Well's syndrome with eosinophilic vasculitis, coronary aneurysms and myocardial infarction] Casazza F, et al. **G Ital Cardiol** 1989 Oct;19(10):923–7 (Eng. Abstr.) **(Ita)**

[Sex and gonadotropic hormones in arteriopathy with lesions of the brain and skin (Sneddon's syndrome)] Kalashnikova LA, et al. **Sov Med** 1989;(6):8–13 (Eng. Abstr.) **(Rus)**

[Nervous system involvement in a female patient with Gougerot-Blum angiodermatitis lichenoides purpurica et pigmentosa] Tolubaev NS, et al. **Vrach Delo** 1989 Oct; (10):87–8 **(Rus)**

DIAGNOSIS

Case report 600: Post-radiation dermatitis with radiation-induced squamous cell carcinoma (well differentiated) of right third finger. Nelson MC, et al. **Skeletal Radiol** 1990;19(2):150–3

DRUG THERAPY

Oral cyclosporine in the treatment of inflammatory and noninflammatory dermatoses. A clinical and immunopathologic analysis. Gupta AK, et al. **Arch Dermatol** 1990 Mar;126(3):339–50

Management of irritable skin disorders in the elderly. Buckley C, et al. **Br J Hosp Med** 1990 Jul;44(1):24–6, 28, 30–2 (25 ref.)

Use of mupirocin ointment in the treatment of secondarily infected dermatoses. Breneman DL. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):886–92

2-substituted-1-naphthols as potent 5-lipoxygenase inhibitors with topical antiinflammatory activity. Batt DG, et al. **J Med Chem** 1990 Jan;33(1):360–70

Effects of ciclosporin and protein synthesis inhibitors on cutaneous inflammation in mouse skin. Griffiths RJ, et al. **Skin Pharmacol** 1989;2(1):30–7

Cellular and biochemical characterization of the anti-inflammatory effects of DuP 654 in the arachidonic acid murine skin inflammation model. Harris RR, et al. **Skin Pharmacol** 1990;3(1):29–40

[Oxatomide: review of pharmacodynamic effects and clinical effects in dermatology] Cabotin PP, et al. **Allerg Immunol (Paris)** 1990 Feb;22(2):61–9, 72 (38 ref.) (Eng. Abstr.) **(Fre)**

[A clinical trial of desired and unwanted effects of topically applied glucocorticosteroids in the human] Behrendt H, et al. **Hautarzt** 1990 Jan;41(1):2–8 (37 ref.) (Eng. Abstr.) **(Ger)**

[Local treatment with corticosteroids—limits on the duration of administration] Zesch A. **Hautarzt** 1990 Mar; 41(3):119–25 (11 ref.) (Eng. Abstr.) **(Ger)**

[Principles of glucocorticoid therapy from the viewpoint of the internist] Allolio B. **Z Hautkr** 1989 Nov 15; 64(11):1038–41 (10 ref.) (Eng. Abstr.) **(Ger)**

[Eczema diseases and erythemato-squamous dermatoses of aging skin—studies of the effectiveness and tolerance of Prednicarbate in various vehicles] Stary A, et al. **Z Hautkr** 1989 Nov 15;64(11):1010, 1013–4 (Eng. Abstr.) **(Ger)**

[Treatment of histamine-dependent allergic dermatoses with a 120-mg terfenadine tablet once a day] Rigoni C, et al. **G Ital Dermatol Venereol** 1989 Sep;124(9):XXXIX-XLI (Eng. Abstr.) **(Ita)**

[Phencarol in the treatment of allergic dermatoses of various pathological mechanisms] Rubisz-Brzezińska J, et al. **Przegl Dermatol** 1989 Jan-Mar;76(1):39–44 (Eng. Abstr.) **(Pol)**

[External use of eucalimine in pediatric practice] Kriazheva SS, et al. **Pediatriia** 1989;(8):97–8 **(Rus)**

EPIDEMIOLOGY

Herpes gladiatorum at a high school wrestling camp—Minnesota. **MMWR** 1990 Feb 9;39(5):69–71

ETIOLOGY

Intermittent use of an antimicrobial hand gel for reducing

soap-induced irritation of health care personnel. Newman JL, et al. **Am J Infect Control** 1990 Jun;18(3):194–200

Rapid improvement in dermatitis after zinc supplementation in a patient with Crohn's disease. Heimburger DC, et al. **Am J Med** 1990 Jan;88(1):71–3

Mechanisms of cutaneous inflammation. Interactions between epidermal cytokines, adhesion molecules, and leukocytes [published erratum appears in Arch Dermatol 1989 Dec;125(12):1643] Kupper TS. **Arch Dermatol** 1989 Oct; 125(10):1406–12 (40 ref.)

Cutaneous toxicity of autologous bone marrow transplantation in nonseminomatous germ cell tumors. Linassier C, et al. **Cancer** 1990 Mar 1;65(5):1143–5

Wells' syndrome, insect bites, and eosinophils. Melski JW. **Dermatol Clin** 1990 Apr;8(2):287–93 (39 ref.)

Stomatitis and systemic dermatitis from mercury in amalgam dental restorations. Veien NK. **Dermatol Clin** 1990 Jan; 8(1):157–60

Pressure dermatitis from an implanted pacemaker. Wilkerson MG, et al. **Dermatol Clin** 1990 Jan;8(1):189–92

Cure of arthritis–dermatitis syndrome due to intestinal bypass by resection of nonfunctional segment of blind loop. Drenick EJ, et al. **Dig Dis Sci** 1990 May;35(5):656–60

Postradiation polymorphic dermatitis. Rongioletti F, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):844–5

Relationships between permeable vessels, nerves, and mast cells in rat cutaneous neurogenic inflammation. Baraniuk JN, et al. **J Appl Physiol** 1990 Jun;68(6):2305–11

Superoxide anion in polymorphonuclear leukocytes of hairless rats suffering from magnesium-deficiency dermatitis. Hanada K, et al. **J Dermatol** 1989 Aug; 16(4):270–5

Steroid-withdrawal rosacea-like dermatitis. Tomita Y, et al. **J Dermatol** 1989 Aug;16(4):335–7

Bowel-associated dermatosis-arthritis syndrome [published erratum appears in Med J Aust 1990 Apr 16;152(8):448] Kemp DR, et al. **Med J Aust** 1990 Jan 1;152(1):43–5

Infrared thermography for detecting sweet itch [letter] McCaig J. **Vet Rec** 1989 Nov 25;125(22):560–1

The occurrence of cercarial dermatitis in Central Bohemia. Kolářová L, et al. **Zentralbl Hyg Umweltmed** 1989 Oct; 189(1):1–13

[Simuliosis—dermatosis caused by black flies. A forgotten epizootic infection?] Fünfstück V, et al. **Dermatol Monatsschr** 1989;175(8):499–503 (Eng. Abstr.) **(Ger)**

[A new skin radioprotective agent Diethon (experimental study)] Ivanov EV, et al. **Radiobiol Radiother (Berl)** 1990; 31(1):69–78 (Eng. Abstr.) **(Ger)**

[What is your diagnosis? Chronic nodular chondrodermatitis of the helix of the ear] Flückiger R. **Schweiz Rundsch Med Prax** 1990 Jun 26;79(26):817–8 **(Ger)**

[Endogenous aerobic and anaerobic flora of the skin in healthy people and its role in the development of suppurative processes] Ivashkevich GA, et al. **Vestn Khir** 1990 Jan;144(1):142–5 (27 ref.) **(Rus)**

IMMUNOLOGY

Transendothelial cell diapedesis of neutrophils in inflamed human skin. Schubert C, et al. **Arch Dermatol Res** 1989; 281(7):475–81

Regulation of IgE and IgG4 synthesis in patients with hyper IgE syndrome. Ishizaka A, et al. **Immunology** 1990 Jul; 70(3):414–6

Effects of anti-inflammatory agents on lymphocyte migration stimulated by the interferons, tumor necrosis factor and cutaneous inflammation. Issekutz TB. **Int J Immunopharmacol** 1989;11(7):725–32

Melanophages in inflammatory skin disease [letter; comment] Facchetti F, et al. **J Am Acad Dermatol** 1989 Dec; 21(6):1315 Comment on: J Am Acad Dermatol 1988 Oct;19(4):633–41.

Chemotactic responsiveness of eosinophils isolated from patients with inflammatory skin diseases. Morita E, et al. **J Dermatol** 1989 Oct;16(5):348–51

Autoimmune progesterone dermatitis. Teelucksingh S, et al. **J Intern Med** 1990 Feb;227(2):143–4

Inflammatory properties of human C5a and C5a des Arg in mast cell–depleted human skin [letter; comment] Lehmann P. **J Invest Dermatol** 1990 Apr;94(4):499 Comment on: J Invest Dermatol 1989 Sep;93(3):417–22.

Perimenstrual eruptions: autoimmune progesterone dermatitis. Stephens CJ, et al. **Semin Dermatol** 1989 Mar; 8(1):26–9 (14 ref.)

[Activated granulocytes as producers of reactive oxygen species—their significance for inflammatory reaction] Kapp A. **Hautarzt** 1990 Apr;41(4):196–203 (88 ref.) (Eng. Abstr.) **(Ger)**

[Heterogeneity of CD4+(helper)-T-cells: role in the pathophysiology of the skin] Sterry W. **Hautarzt** 1989 Nov; 40(11):679–84 (30 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

Adrenocortical response to adrenocorticotropic hormone in relation to duration of topical therapy and percutaneous absorption of hydrocortisone in children with dermatitis. Turpeinen M. **Eur J Pediatr** 1989 Aug;148(8):729–31

The activated keratinocyte: a model for inducible cytokine production by non-bone marrow-derived cells in cutaneous inflammatory and immune responses. Kupper TS. **J Invest Dermatol** 1990 Jun;94(6 Suppl):146S–150S (36 ref.)

PATHOLOGY

Halo dermatitis around tumours. Tegner E, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):31–4 (7 ref.)

Evaluation of ATPase-positive Langerhans' cells in skin lesions of lupus erythematosus and experimentally induced inflammations. Kanauchi H, et al. **Arch Dermatol Res** 1989; 281(5):327–32

Rheumatoid neutrophilic dermatitis. Sánchez JL, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 2):922–5

Elastophagocytosis: a non-specific reaction pattern associated with inflammatory processes in sun-protected skin. Barnhill RL, et al. **J Cutan Pathol** 1989 Aug; 16(4):199–202

T-cell receptor-gamma/delta bearing lymphocytes in normal and inflammatory human skin. Dupuy P, et al. **J Invest Dermatol** 1990 Jun;94(6):764–8

Non-neoplastic inflammatory dermatoses. A clinical pathologic correlative approach. Zaim MT, et al. **Mod Pathol** 1990 May;3(3):381–414

Sweet's syndrome. Bruyn GA, et al. **Neth J Med** 1990 Feb; 36(1–2):62–8

Human recombinant interleukin-1 alpha is proinflammatory in normal human skin. Dowd PM, et al. **Skin Pharmacol** 1988;1(1):30–7

Pseudoepitheliomatous hyperplasia and pyoderma gangrenosum after a brown recluse spider bite. Hoover EL, et al. **South Med J** 1990 Feb;83(2):243–6 (12 ref.)

[Pruritic urticarial papules and plaques in pregnancy] Nilles M, et al. **Hautarzt** 1989 Sep;40(9):586–8 (Eng. Abstr.) **(Ger)**

[Sweet syndrome (acute febrile neutrophilic dermatosis) and erythema nodosum in Crohn disease] Schlegel Gómez R, et al. **Hautarzt** 1990 Jul;41(7):398–401 (Eng. Abstr.) **(Ger)**

[Acrosyringium and follicular infundibulum: immunomorphologic aspects] Niedecken HW, et al. **Z Hautkr** 1990 Jun;65(6):578–81 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Cutaneous inflammatory disorders. Appleby P, et al. **Agents Actions** 1990 Jun;30(3–4):319–21

The effect of indomethacin on the kinetics of histamine, 48/80 and antigen wealing. Humphreys F, et al. **Br J Clin Pharmacol** 1990 Feb;29(2):195–9

Potent inflammatory properties in human skin of interleukin-1 alpha-like material isolated from normal skin. Camp R, et al. **J Invest Dermatol** 1990 Jun;94(6):735–41

The role of adhesion molecules, chemotactic factors, and cytokines in inflammatory and neoplastic skin disease—1990 update. Nickoloff BJ, et al. **J Invest Dermatol** 1990 Jun;94(6 Suppl):151S–157S (63 ref.)

Neurogenic inflammation. Lynn B. **Skin Pharmacol** 1988; 1(4):217–24 (36 ref.)

Pharmacological modulation by cetirizine and atropine of the histamine- and methacholine-induced wheals and flares in human skin. Van Neste D, et al. **Skin Pharmacol** 1989; 2(2):93–102

SURGERY

Treatment with Refrigerant 12 [letter; comment] Gerwels JW. **J Dermatol Surg Oncol** 1989 Oct;15(10):1127 Comment on: J Dermatol Surg Oncol 1989 Jun;15(6):621–3.

VETERINARY

Enterotoxigenicity of Staphylococcus intermedius of canine origin. Hirooka EY, et al. **Int J Food Microbiol** 1988 Dec; 7(3):185–91

Observations on flea bite allergic dermatitis [letter] Craige JE. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1192–3

Naltrexone for treatment of acral lick dermatitis in dogs. White SD. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1073–6

Caryospora-associated dermatitis in dogs. Dubey JP, et al. **J Parasitol** 1990 Aug;76(4):552–6

Herpes-like viral dermatitis in a beluga whale (Delphinapterus leucas). Barr B, et al. **J Wildl Dis** 1989 Oct;25(4):608–11

A retrospective review of lesions associated with the use of Freund's adjuvant. Broderson JR. **Lab Anim Sci** 1989 Sep;39(5):400–5

Intradermal challenge of Icelandic horses with extracts of four species of the genus Culicoides. Halldorsdottir S, et al. **Res Vet Sci** 1989 Nov;47(3):283–7

Inflammatory cell and immune function in Merino sheep with chronic dermatophilosis. Ellis TM, et al. **Vet Microbiol** 1989 Nov;21(1):79–93

Bovine digital dermatitis. Bassett HF, et al. **Vet Rec** 1990 Feb 17;126(7):164–5

Potential of infra-red thermography for the detection of summer seasonal recurrent dermatitis (sweet itch) in horses [see comments] Braverman Y. **Vet Rec** 1989 Sep 30; 125(14):372–4 Comment in: Vet Rec 1989 Oct 28;125(18):466.

Dermatitis in a cat associated with Spilopsyllus cuniculi [see comments] Harvey RG. **Vet Rec** 1990 Jan 27;126(4):89–90 Comment in: Vet Rec 1990 Mar 10;126(10):249–50.

Sarcoptic mite hypersensitivity: a cause of dermatitis in fattening pigs at slaughter. Hollanders W, et al. **Vet Rec** 1990 Mar 31;126(13):308–10

Feline pinnal dermatitis [letter; comment] White SM. **Vet Rec** 1990 Mar 10;126(10):249–50 Comment on: Vet Rec 1990 Jan 27;126(4):89–90.

Dermatitis in broilers caused by Escherichia coli: isolation of Escherichia coli from field cases, reproduction of the disease with Escherichia coli O78:K80 and conclusions under consideration of predisposing factors. Glünder G. **Zentralbl Veterinarmed [B]** 1990 Jul;37(5):383–91

DERMATITIS, ATOPIC

Atopic dermatitis. Proceedings of the third international symposium. 29 May–1 June 1988, Oslo. **Acta Derm Venereol Suppl (Stockh)** 1989;144:1–154

Atopic dermatitis: a love affair. Memories and reminiscences. Lobitz WC Jr. **Acta Derm Venereol Suppl (Stockh)** 1989; 144:7–9

Juvenile plantar dermatosis (JPD). Verbov J. **Acta Derm Venereol Suppl (Stockh)** 1989;144:153–4

International Symposium on Atopic Dermatitis in Children: An Update. Rome, December 8–10, 1988. Proceedings. **Allergy** 1989;44 Suppl 9:1–173

Nonvalidated food allergy tests [letter; comment] [see comments] Dolovich J. **Can Med Assoc J** 1989 Dec 15; 141(12):1222 Comment on: Can Med Assoc J 1988 Mar 1;38(5):401–2. Comment in: Can Med Assoc J 1990 Apr 15;142(8):799.

Definition of atopy [letter] Svensson A. **Contact Dermatitis** 1990 May;22(5):309

Atopic dermatitis. Brown MA, et al. **Curr Opin Immunol** 1989–90 Apr;2(4):531–4 (30 ref.)

Dubowitz syndrome: atopic dermatitis, low birth weight dwarfism and facial dysmorphism. Vieluf D, et al. **Dermatologica** 1990;180(4):247–9

Infection and prevention: current controversies in childhood atopic eczema: a review. David TJ. **J R Soc Med** 1989 Jul;82(7):420–2 (29 ref.)

BLOOD

IgE antibodies to Pityrosporum orbiculare in children with atopic diseases. Nordvall SL, et al. **Acta Paediatr Scand** 1990 Mar;79(3):343–8

Spontaneous histamine release from washed leukocytes and whole blood in atopic and non-atopic individuals. Wahn U, et al. **Allergy** 1990 Feb;45(2):109–14

Serum levels of trace metals in children with atopic eczema. David TJ, et al. **Br J Dermatol** 1990 Apr;122(4):485–9

[Incidence of food allergy and zinc deficiency in children treated for atopic dermatitis] Endre L, et al. **Orv Hetil** 1989 Nov 12;130(46):2465–9 (33 ref.) (Eng. Abstr.) **(Hun)**

[Examination of the correlation between transferrin C and atopic dermatitis] Cisło M, et al. **Przegl Dermatol** 1989 Sep–Dec;76(5–6):386–90 (Eng. Abstr.) **(Pol)**

[The indices of the hemostatic system in atopic dermatitis patients during treatment by hyperbaric oxygenation] Rumiantseva EE, et al. **Vestn Dermatol Venerol** 1990; (2):40–3 (Eng. Abstr.) **(Rus)**

[Atopic dermatitis. IV. The role of proteinase inhibitors in the pathogenesis, assessment of the severity and the prognosis of the disease] Sergeev IuV, et al. **Vestn Dermatol Venerol** 1990;(2):11–5 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Effects of irritants in atopic dermatitis. Gehring W. **Contact Dermatitis** 1990 May;22(5):292–3

Nickel sensitivity and the course of atopic dermatitis in adulthood. Lammintausta K, et al. **Contact Dermatitis** 1990 Mar;22(3):144–7

Interactions between histamine and prostanoids in IgE-dependent, late cutaneous reactions in man. Grönneberg R, et al. **J Allergy Clin Immunol** 1990 May; 85(5):843–52

Genetic control of nickel sulfate delayed-type hypersensitivity. Ishii N, et al. **J Invest Dermatol** 1990 May; 94(5):673–6

[Comparison of the causes of occupational atopic dermatitis diagnosed at the Institute of Occupational Medicine in Łódź 1972–1978 and 1979–1987] Kieć-Świerczyńska M. **Przegl Dermatol** 1988 Nov-Dec;75(6):409–14 (Eng. Abstr.) **(Pol)**

[Current hygienic aspects of allergy caused by pesticides and polymers] Borisenko NF, et al. **Gig Sanit** 1989 Jul;(7):51–4 (69 ref.) **(Rus)**

CLASSIFICATION

Standardized grading of subjects for clinical research studies in atopic dermatitis: workshop report. Hanifin JM. **Acta Derm Venereol Suppl (Stockh)** 1989;144:28–30

Grading of the severity of atopic dermatitis. Rajka G, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:13–4

[Clinical forms of atopic neurodermatitis] Glukhen'kil BT, et al. **Vestn Dermatol Venerol** 1990;(4):37–42 (46 ref.) (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Short stature in children with atopic eczema. David TJ. **Acta Derm Venereol Suppl (Stockh)** 1989;144:41–4 (34 ref.)

Are hyperlinear palms and dry skin signs of a concomitant

autosomal ichthyosis vulgaris in atopic dermatitis? Fartasch M, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:143–5

Recent investigations on the relationship between fungal skin diseases and atopic dermatitis. Svejgaard E, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:140–2 (15 ref.)

Bronchial hyperresponsiveness in atopic dermatitis. Corbo GM, et al. **Allergy** 1989 Nov;44(8):595–8

Recognizing and managing clinical problems in atopic dermatitis. Hanifin JM. **Allergy Proc** 1989 Nov–Dec; 10(6):397–402 (28 ref.)

Idiopathic dilated cardiomyopathy and atopic disease: epidemiologic evidence for an association with asthma. Coughlin SS, et al. **Am Heart J** 1989 Oct;118(4):768–74

Eczematous rash and splenomegaly [clinical conference] Roberson SK, et al. **Ann Allergy** 1990 Aug;65(2):93–6

Atopic eczema, hyponatraemia, and hypoalbuminaemia. Goodyear HM, et al. **Arch Dis Child** 1990 Feb;65(2):231–2

Herpes simplex infections in atopic eczema [letter] Liddle BJ. **Arch Dis Child** 1990 Mar;65(3):333

Failure of terfenadine in relieving the pruritus of atopic dermatitis. Berth-Jones J, et al. **Br J Dermatol** 1989 Nov; 121(5):635–7

Severe eczema in a patient with DiGeorge's syndrome. Archer E, et al. **Cutis** 1990 Jun;45(6):455–9

Psoriasis and atopy [letter] Schmid UH. **Dermatologica** 1990; 180(1):56

Aeroallergen contact can exacerbate atopic dermatitis: patch tests as a diagnostic tool. Clark RA, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 2):863–9

[Concomitant psoriasis vulgaris and atopic dermatitis. A study of 1,065 patients with psoriasis] Welp K, et al. **Hautarzt** 1989 Aug;40(8):496–500 (Eng. Abstr.) **(Ger)**

[Urticaria in atopic dermatitis] Rudzki E, et al. **Przegl Dermatol** 1988 Nov–Dec;75(6):420–4 (Eng. Abstr.) **(Pol)**

[Status of the hepatobiliary system in children with cutaneous and cutaneo-respiratory manifestations of allergy] Balabolkin II, et al. **Pediatriia** 1990;(5):22–5 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Atopic dermatitis in the first six months of life. Bonifazi E, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:20–2

Evaluation and relevance of atopic basic and minor features in patients with atopic dermatitis and in the general population. Diepgen TL, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:50–4

Criteria for atopic dermatitis in a Chinese population. Kang KF, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:26–7

Scaly lesions on the feet in children—tinea or eczema? Broberg A, et al. **Acta Paediatr Scand** 1990 Mar; 79(3):349–51

Hazards of challenge tests in atopic dermatitis. David TJ. **Allergy** 1989;44 Suppl 9:101–7

Personal experience in the diagnostic procedures in children with atopic dermatitis and food allergy. Meglio P, et al. **Allergy** 1989;44 Suppl 9:165–73

Elimination diets in the diagnosis of atopic dermatitis. Taylor SL. **Allergy** 1989;44 Suppl 9:97–100

The frequency of contact allergy in atopic patients with dermatitis. de Groot AC. **Contact Dermatitis** 1990 May; 22(5):273–7

RAST and PRIST in children with atopic dermatitis. Rudzki E, et al. **Dermatologica** 1990;180(2):82–5

Prediction of the development of atopic symptoms in early childhood by cord IgE-binding factors (soluble Fc epsilon R2). Kim KM, et al. **Immunol Lett** 1990 Mar–Apr; 24(1):63–7

Patch testing in atopic dermatitis. Schöpf E, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 2):860–2

[The time of manifestation of atopic dermatitis in children with atopic family anamnesis] Rebmann H, et al. **Klin Padiatr** 1989 Sep–Oct;201(5):393–5 (Eng. Abstr.) **(Ger)**

[Data processing the the RAST laboratory] Hillebrand O, et al. **Z Hautkr** 1990 Apr;65(4):371–2, 375–6 (Eng. Abstr.) **(Ger)**

[Food hypersensitivity: skin test with commercial food extracts or natural products?] Lehmann P, et al. **Z Hautkr** 1990 Apr;65(4):365–6, 369–70 (Eng. Abstr.) **(Ger)**

[Atopic dermatitis: current problems with diagnosis] Aoki T. **Arerugi** 1990 Jan;39(1):1–5 (5 ref.) **(Jpn)**

[Serum IgE and Fc epsilon receptor positive lymphocytes in atopic dermatitis—relation to the background of respiratory atopy] Higaki Y. **Nippon Hifuka Gakkai Zasshi** 1990 Mar;100(4):477–85 (Eng. Abstr.) **(Jpn)**

[Senile type atopic dermatitis] Kawashima T, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Sep;99(10):1095–103 (Eng. Abstr.) **(Jpn)**

[Paecilomycosis] Akhunova AM. **Klin Med (Mosk)** 1989 Oct; 67(10):111–5 (Eng. Abstr.) **(Rus)**

[The diagnosis and treatment of allergic diseases caused by sensitization to the Dermatophagoides farinae mite] Golysheva MA, et al. **Ter Arkh** 1989;61(10):130–1 (Eng. Abstr.) **(Rus)**

[Clinical aspects of atopic dermatitis] Kaliuzhnaia LD. **Vestn Dermatol Venerol** 1989;(6):23–6 (30 ref.) (Eng. Abstr.) **(Rus)**

[Atopic dermatitis in pregnant women] Shevarova VN, et al. **Vestn Dermatol Venerol** 1989;(12):31–3 (Eng. Abstr.) **(Rus)**

DIET THERAPY

The dietary management of atopic dermatitis. Krafchik BR. **Adv Dermatol** 1986;1:77–94 (68 ref.)

Food hypersensitivity and atopic dermatitis: something is changing? Armenio L, et al. **Allergy** 1989;44 Suppl 9:140–6

Response to diet in 130 children affected with atopic dermatitis. Bardara M, et al. **Allergy** 1989;44 Suppl 9:147–50

Dietary treatment of atopic eczema. David TJ. **Arch Dis Child** 1989 Oct;64(10):1506–9 (23 ref.)

Few food diets in the treatment of atopic eczema. Pike MG, et al. **Arch Dis Child** 1989 Dec;64(12):1691–8

[Clinical experience with a hydrolyzed soy formula in infants with protracted enteritis and atopic eczema] Donzelli F, et al. **Pediatr Med Chir** 1990 Jan–Feb;12(1):71–9 (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Atopic dermatitis: elements in clinical study design and analysis. Abrams BB. **Acta Derm Venereol Suppl (Stockh)** 1989;144:15–9

Randomised double-blind placebo-controlled trial of local cyclosporin in atopic dermatitis. de Prost Y, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:136–8

The effect of eicosapentaenoic acid in the treatment of atopic dermatitis. A clinical study. Søyland E, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:139

How doctor's advice is followed by mothers of atopic children. Yamamoto K. **Acta Derm Venereol Suppl (Stockh)** 1989;144:31–3

Sodium cromoglycate in childhood atopic dermatitis treatment. Cavagni G, et al. **Allergy** 1989;44 Suppl 9:124–8

Ketotifen treatment of atopic dermatitis and other food allergy diseases. Molkhous P, et al. **Allergy** 1989;44 Suppl 9:117–23

Topical steroid therapy of atopic skin diseases. Thiers BH. **Allergy Proc** 1989 Nov–Dec;10(6):413–6 (15 ref.)

Trial of nedocromil sodium in atopic eczema. Benton EC, et al. **Br J Dermatol** 1990 Jun;122(6):817–20

Failure of papaverine to reduce pruritus in atopic dermatitis: a double-blind, placebo-controlled cross-over study. Berth-Jones J, et al. **Br J Dermatol** 1990 Apr;122(4):553–7

A comparative trial of Clinitar versus hydrocortisone cream in the treatment of atopic eczema. Munkvad M. **Br J Dermatol** 1989 Dec;121(6):763–6

Cyclosporin A in atopic dermatitis. Ross JS, et al. **Br J Dermatol** 1990 Jun;122 Suppl 36:41–5

The antipruritic effect of a sedative and a non-sedative antihistamine in atopic dermatitis. Wahlgren CF, et al. **Br J Dermatol** 1990 Apr;122(4):545–51

Topical cromolyn (disodium cromoglycate) solution in the treatment of young children with atopic dermatitis [see comments] Kimata H, et al. **Clin Exp Allergy** 1990 May; 20(3):281–3 Comment in: Clin Exp Allergy 1990 May;20(3):243–4.

Atopic dermatitis and cromolyn [editorial; comment] Sampson HA. **Clin Exp Allergy** 1990 May;20(3):243–4 Comment on: Clin Exp Allergy 1990 May;20(3):281–3.

Resolution of atopic dermatitis in a patient treated with cyclosporin. Motley RJ, et al. **Clin Exp Dermatol** 1989 May; 14(3):243–4

Nedocromil sodium cream in the treatment of atopic dermatitis [letter] Van Bever HP, et al. **Eur J Pediatr** 1989 Oct;149(1):74

Thymopentin therapy reduces the clinical severity of atopic dermatitis. Leung DY, et al. **J Allergy Clin Immunol** 1990 May;85(5):927–33

Chinese herbs for eczema [letter] **Lancet** 1990 Jul 21; 336(8708):177

Evening primrose oil in atopic eczema [letter; comment] [see comments] Horrobin DF, et al. **Lancet** 1990 Apr 7; 335(8693):864–5 Comment on: Lancet 1990 Mar 17;335(8690):667–8. Comment in: Lancet 1990 May 26;335(8700):1283.

Evening primrose oil and atopic eczema [letter; comment] Horrobin DF, et al. **Lancet** 1990 Jul 7;336(8706):50 Comment on: Lancet 1990 May 26;335(8700):1283.

Evening primrose oil and eczema [letter; comment] [see comments] Sharpe GR, et al. **Lancet** 1990 May 26; 335(8700):1283 Comment on: Lancet 1990 Apr 7;335(8693):864–5. Comment in: Lancet 1990 Jul 7;336(8706):50.

Evening primrose oil and eczema [letter; comment] [see comments] Sharpe GR, et al. **Lancet** 1990 Mar 17; 335(8690):667–8 Comment on: Lancet 1989 Nov 25;2(8674):1261–3. Comment in: Lancet 1990 Apr 7;335(8693):864–5.

Antihistamines—useful in atopic eczema? Williams R. **Practitioner** 1990 Jun 8;234(1490):624

[A new generation of antihistaminics (H1)] Tarchalska B, et al. **Pol Tyg Lek** 1988 Dec 19–26;43(51–52):1672–5 **(Pol)**

[Usefulness of photochemotherapy in allergic diseases of the skin] Cisło M, et al. **Przegl Dermatol** 1989 Mar–Apr; 76(2):146–51 (Eng. Abstr.) **(Pol)**

[Comparative effectiveness of the use of enterodes in acute allergic syndromes in children] Dorofeeva GD, et al. **Pediatriia** 1990;(2):111–2 **(Rus)**

[The use of zaditen in the combined treatment of allergic skin diseases in children] Lipets ME, et al. **Vestn Dermatol Venerol** 1989;(7):43–7 (Eng. Abstr.) **(Rus)**

[Clinico-immunologic evaluation of the efficacy of bikarfen in allergic dermatoses] Kashirskil IuM, et al. **Vrach Delo** 1989 Oct;(10):88–90 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Mast cell heterogeneity with special attention to cutaneous atopic disease. Schwartz LB. **Allergy** 1989;44 Suppl 9:35–40 (35 ref.)

The effect of in vitro exposure to histamine on mononuclear leucocyte phosphodiesterase activity in atopic dermatitis. Holden CA, et al. **Clin Exp Dermatol** 1989 May; 14(3):186–90

[Increased plasma noradrenaline values in severe atopic eczema] Ionescu G, et al. **Z Hautkr** 1989 Nov 15; 64(11):1036–7 (Eng. Abstr.) **(Ger)**

[Histamine degrading enzymes in atopic eczema] Kiehl R, et al. **Z Hautkr** 1989 Dec 15;64(12):1121–3 (Eng. Abstr.) **(Ger)**

[Activity of pyruvate kinase and glucose-6-phosphate dehydrogenase in polymorphonuclear granulocytes of patients with atopic dermatitis in the active stage and in remission] Miklaszewska M, et al. **Przegl Dermatol** 1989 Sep–Dec;76(5–6):381–5 (Eng. Abstr.) **(Pol)**

EPIDEMIOLOGY

Psoriasis in atopic children. Garofalo L, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:63–5

Atopic dermatitis and atopy in non-clinical populations. Visscher MO, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:34–40

The prevalence of cutaneous hypersensitivity and its relationship to Pseudomonas colonization and outcome in cystic fibrosis. Hamilton AH, et al. **Clin Exp Allergy** 1990 Jul;20(4):415–9

[Epidemiology of atopic dermatitis] Schmied C, et al. **Ann Dermatol Venereol** 1989;116(10):729–34 (45 ref.) **(Fre)**

[The investigation of asthmatic children by multiple factor analysis. II. The influence of 17 allergic factors on atopic dermatitis and allergic rhinitis in asthmatic children] Koya N, et al. **Arerugi** 1989 Nov;38(11):1255–67 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Infections as contributing factors to atopic dermatitis. Rystedt I, et al. **Allergy** 1989;44 Suppl 9:79–83 (45 ref.)

Role of immediate hypersensitivity in the pathogenesis of atopic dermatitis. Sampson HA. **Allergy** 1989;44 Suppl 9:52–8 (33 ref.)

Food and food additives in severe atopic dermatitis. Van Bever HP, et al. **Allergy** 1989 Nov;44(8):588–94

Diet and atopic eczema in children. Ventura A, et al. **Allergy** 1989;44 Suppl 9:159–64

House dust mites and atopic dermatitis. A case-control study on the significance of house dust mites as etiologic allergens in atopic dermatitis. Harving H, et al. **Ann Allergy** 1990 Jul;65(1):25–31

A controlled-trial of house dust mite eradication using natamycin in homes of patients with atopic dermatitis [letter; comment] Vickers CF. **Br J Dermatol** 1990 Mar; 122(3):426 Comment on: Br J Dermatol 1989 Aug;121(2):199–208.

Breast milk fatty acids in mothers of children with atopic eczema. Wright S, et al. **Br J Nutr** 1989 Nov;62(3):693–7

Atopic dermatitis: a defect of intracellular secondary messenger systems? Holden CA. **Clin Exp Allergy** 1990 Mar;20(2):131–6 (47 ref.)

Atopy in subjects with a history of nickel allergy but negative patch tests. Todd DJ, et al. **Contact Dermatitis** 1989 Sep; 21(3):129–33

Atopic dermatitis. Bruijnzeel-Koomen C. **Curr Opin Immunol** 1989 Apr;1(4):658–9 (18 ref.)

Sauna habits and related symptoms in Finnish children. Markkola L, et al. **Eur J Pediatr** 1989 Dec;149(3):221–2

Maternal diet and atopic eczema [letter] Badrinath P. **J Epidemiol Community Health** 1990 Jun;44(2):174

Atopic dermatitis and food hypersensitivity [letter] Goldenhersh MA. **N Engl J Med** 1990 Jan 25;322(4):274–5

[Patients born in autumn more frequently develop atopic eczema] Meffert H, et al. **Dermatol Monatsschr** 1990; 176(1):11–4 (Eng. Abstr.) **(Ger)**

[Endogenous eczema and occupation] Schubert H. **Z Arztl Fortbild (Jena)** 1990;84(3):89–92 **(Ger)**

[Allergy to insect venoms] Grzelewska-Rzymowska I, et al. **Pol Arch Med Wewn** 1987 Jul;78(1):35–42 (0 ref.) **(Pol)**

[Analysis of selected constitutional and environmental factors in patients with atopic dermatitis] Mylek D, et al. **Wiad Lek** 1989 Oct 1–Nov 1;42(19–21):1019–24 (Eng. Abstr.) **(Pol)**

[Atopic dermatitis. III. The role of immune complexes in the pathogenesis, assessment of the severity and the prognosis of the disease] Sergeev IuV, et al. **Vestn Dermatol Venerol** 1990;(1):8–11 (Eng. Abstr.) **(Rus)**

GENETICS

A family study of atopic dermatitis. Clinical and genetic characteristics of 188 patients and 2,151 family members.

Küster W, et al. **Arch Dermatol Res** 1990;282(2):98–102
Relationship between serum levels of total and milk- and egg-specific IgG4 and the expression of G2m(n) in atopic eczema patients. Shakib F, et al.
Exp Clin Immunogenet 1984;1(4):185–8
[Problems presented by the genetics of atopic dermatitis] Marcelli-Barge A, et al. **Allerg Immunol (Paris)** 1989 Sep; 21(7):257–262 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

IgE antibody to sweat in atopic dermatitis. Adachi K, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:83–7
Atopic dermatitis and house-dust mites. Beck HI, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:125–6
New aspects in the pathogenesis of atopic dermatitis. Bruijnzeel-Koomen CA, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:58–63 (47 ref.)
Immunobiochemical aspects of atopic dermatitis. Hanifin JM.
Acta Derm Venereol Suppl (Stockh) 1989;144:45–7 (27 ref.)
IgG subclass antibodies to dietary antigens in atopic dermatitis. Husby S, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:88–92
Altered production of immuno-modulating cytokines in patients with atopic dermatitis. Kapp A, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:97–9
Studies of atopic patch tests. Langeland T, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:105–9
IgG anti IgE in atopic dermatitis. Quinti I, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:67–9 (12 ref.)
Langerhans cell antigen presentation and interleukin-1 production in atopic dermatitis. Räsänen L, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:64–6
Immunohistochemical studies on dust mite antigen in positive reaction site of patch test. Tanaka Y, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:93–6
Immunology of atopic dermatitis. Thestrup-Pedersen K.
Acta Derm Venereol Suppl (Stockh) 1989;151:77–83; discussion 106–10 (83 ref.)
In vitro IgE-secretion in atopic eczema: influence of allergens and mitogens and role of CD8 T cell subpopulation. Thomas P, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:110–4
Family background of respiratory atopy: a factor of serum IgE elevation in atopic dermatitis. Uehara M.
Acta Derm Venereol Suppl (Stockh) 1989;144:78–82
In vitro generation of IFN-gamma in relationship to in vivo concentration of IgE and IgG subclasses and Fc epsilon RI/CD23 positive circulating lymphocytes in patients with severe atopic dermatitis (AD). Wehrmann W, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:127–30
Intracutaneous tests with pityrosporon extract in atopic dermatitis. Young E, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:122–4
Reactivity of human basophils to anti-IgE and protein A in atopic dermatitis. Sainte-Laudy J, et al.
Agents Actions 1990 Apr;30(1–2):250–3
Inhibition of human allergic skin reactions in vivo by pretreatment with cromolyn (disodium cromoglycate). Kimata H, et al. **Allergy** 1990 Jul;45(5):393–5
Role of immune complexes in atopic dermatitis. Paganelli R, et al. **Allergy** 1989;44 Suppl 9:65–9 (33 ref.)
Reliability of tests for specific IgE to food in atopic dermatitis. Vierrucci A, et al. **Allergy** 1989;44 Suppl 9:90–6
Peanut protein as a major cause of adverse food reactions in patients with atopic dermatitis. Burks AW, et al.
Allergy Proc 1989 Jul-Aug;10(4):265–9
Contact sensitivity to dinitrochlorobenzene is impaired in atopic subjects. Controversy revisited. Rees J, et al.
Arch Dermatol 1990 Sep;126(9):1173–5
Contact sensitivity to Pityrosporum ovale in patients with atopic dermatitis. Rokugo M, et al. **Arch Dermatol** 1990 May;126(5):627–32
Skin reactivity to neuropeptides in atopic dermatitis. Giannetti A, et al. **Br J Dermatol** 1989 Dec;121(6):681–8
Atopy: a prostaglandin E precursor- and receptor-dependent defect in T-cell maturation and function? [letter] Melnik BC, et al. **Br J Dermatol** 1990 Jul;123(1):126–8
Development of serum Dermatophagoides farinae-, ovalbumin- and lactalbumin-specific IgG, IgG1, IgG4, IgA and IgM in children with bronchial asthma/allergic rhinitis or atopic dermatitis. Okahata H, et al.
Clin Exp Allergy 1990 Jan;20(1):39–44
Keratinocytes in lesional skin of atopic eczema bear HLA-DR, CD1a and IgE molecules. Bieber T, et al.
Clin Exp Dermatol 1989 Jan;14(1):35–9
Depressed lymphocyte transformation and the role of prostaglandins in atopic dermatitis. Jakob T, et al.
Clin Exp Immunol 1990 Mar;79(3):380–4
Evidence that defective interferon-gamma production in atopic dermatitis patients is due to intrinsic abnormalities. Reinhold U, et al. **Clin Exp Immunol** 1990 Mar;79(3):374–9
The relationship between positive aeroallergen patch test reactions and aeroallergen exacerbations of atopic dermatitis. Clark RA, et al. **Clin Immunol Immunopathol** 1989 Nov;53(2 Pt 2):S132–40
The role of contact allergy to aeroallergens in atopic dermatitis. de Groot AC, et al. **Contact Dermatitis** 1989 Oct;21(4):209–14 (21 ref.)
Phenotypic analysis of a CD2- CD3+ T cell receptor gamma delta lymphocyte subset. de Paoli P, et al.
Immunol Lett 1990 Jan;23(3):195–8
Allergen presentation by epidermal Langerhans' cells from patients with atopic dermatitis is mediated by IgE. Mudde GC, et al. **Immunology** 1990 Mar;69(3):335–41
Role of Langerhans cells in atopic disease.
Bruijnzeel-Koomen CA, et al.
Int Arch Allergy Appl Immunol 1989;90 Suppl 1:51–6 (43 ref.)
Effect of ketotifen on antigen-induced interleukin 2 (IL-2) responsiveness in lymphocytes from patients with atopic dermatitis and/or bronchial asthma. Noma T, et al.
Int J Immunopharmacol 1990;12(3):269–77
Atopic dermatitis, contact hypersensitivity, and urticaria. Dockhorn RJ. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 2):1051–4
Lymphocyte responses to food antigens in patients with atopic dermatitis who are sensitive to foods. Kondo N, et al. **J Allergy Clin Immunol** 1990 Aug;86(2):253–60
Immune reactions to Pityrosporum ovale in adult patients with atopic and seborrheic dermatitis. Kieffer M, et al.
J Am Acad Dermatol 1990 May;22(5 Pt 1):739–42
Hyperresponsibility to exogeneous interleukin 4 in atopic dermatitis. Furue M, et al. **J Dermatol** 1989 Jun; 16(3):247–50
[Questions raised by the clinical and biological polymorphism of atopic dermatitis] Henocq E, et al.
Allerg Immunol (Paris) 1989 Sep;21(7):273–7 (Eng. Abstr.) **(Fre)**
[The role of the T-lymphocyte in atopic dermatitis] Nicolas JF, et al. **Allerg Immunol (Paris)** 1989 Sep;21(7):263–6 (Eng. Abstr.) **(Fre)**
[A new concept of the etiopathogenesis and prevention of atopic dermatitis] Melnik B, et al. **Hautarzt** 1989 Nov; 40(11):685–92 (87 ref.) (Eng. Abstr.) **(Ger)**
[The beta adrenergic system of lymphocytes in children with atopic dermatitis] Griese M, et al. **Klin Padiatr** 1990 Mar-Apr;202(2):81–6 (Eng. Abstr.) **(Ger)**
[What role does the immune system play in the condition of a double form of atopy? Note I. Considerations on the behavior of the lymphocyte population and the immunoglobulins in children with atopic dermatitis in whom asthma develops] Infortuna M, et al.
Minerva Pediatr 1989 May;41(5):253–8 (Eng. Abstr.) **(Ita)**
[25 atopic dermatitis patients with positive RAST for rice were treated with a rice elimination diet (the mean duration of elimination: 5.2 months). The clinical effects and the change in RAST for rice and wheat, serum IgE values and the number of eosinophils were examined] Komatsu H, et al. **Arerugi** 1990 Apr;39(4):402–9 (Eng. Abstr.) **(Jpn)**
[The study of allergic children under one-year old. The degree of influence on allergic factors to atopic dermatitis by multiple factor analysis] Koya N. **Arerugi** 1990 Apr; 39(4):391–401 (Eng. Abstr.) **(Jpn)**
[Cellular immunoregulation in atopic dermatitis—hyperresponsiveness to interleukin-4 and hyporesponsiveness to interleukin-2] Ohtsuki M, et al.
Arerugi 1989 Oct;38(10):1169–72 (Eng. Abstr.) **(Jpn)**
[Atopic dermatitis and the house dust mite] Yoshida H.
Arerugi 1989 Jul;38(7):517–23 (37 ref.) **(Jpn)**
[The correlation of serum IgE and IgE-RAST of mite, egg white, milk, soybean, rice and wheat: a study by analysis of regression curves] Fujisawa S, et al.
Nippon Hifuka Gakkai Zasshi 1989 Nov;99(12):1235–41 (Eng. Abstr.) **(Jpn)**
[Fc epsilon R+ lymphocytes and IgE in atopic dermatitis] Kawai K. **Nippon Hifuka Gakkai Zasshi** 1989 Aug; 99(9):973–84 (Eng. Abstr.) **(Jpn)**
[Leu7 (HNK-1)-positive cells in peripheral blood and natural killer cell activity in patients with atopic dermatitis] Matsumura G. **Nippon Hifuka Gakkai Zasshi** 1990 Jan; 100(1):57–62 (Eng. Abstr.) **(Jpn)**
[Assessment of the phagocytosis and intracellular killing of Candida albicans by granulocytes of patients with atopic dermatitis] Baran E, et al. **Przegl Dermatol** 1989 Sep-Dec; 76(5–6):391–8 (Eng. Abstr.) **(Pol)**
[Atopic dermatitis in patients with normal and raised IgE levels] Rudzki E, et al. **Przegl Dermatol** 1989 May-Jun; 76(3):229–33 (Eng. Abstr.) **(Pol)**
[Characteristics of the clinical course of the post-vaccination period and the development of anti-measles immunity in children with allergic diseases] Kostinov MP, et al.
Pediatriia 1989;(9):33–8 (Eng. Abstr.) **(Rus)**
[Interferon status in atopic dermatitis] Iashaeva IG, et al.
Sov Med 1990;(6):92–4 **(Rus)**
[The immune and nonspecific protective reactions of the skin in patients with allergic dermatoses of chemical etiology] Alchangian LV, et al. **Vestn Dermatol Venerol** 1989; (10):51–5 (Eng. Abstr.) **(Rus)**

METABOLISM

Cytokine release from cultured peripheral blood mononuclear cells of patients with severe atopic dermatitis. Reinhold U, et al. **Acta Derm Venereol (Stockh)** 1989; 69(6):497–502
Absorption of egg antigens by the gut observed by oral Prausnitz-Küstner (Walzer) reaction in atopic dermatitis. Aoki T, et al. **Acta Derm Venereol Suppl (Stockh)** 1989; 144:100–4
Leukotrienes in atopic eczema. Ruzicka T.
Acta Derm Venereol Suppl (Stockh) 1989;144:48–9
Evaluation of the hydration and the water-holding capacity in atopic skin and so-called dry skin. Thune P.
Acta Derm Venereol Suppl (Stockh) 1989;144:133–5
Effect of allergen ingestion challenge with and without cromoglycate cover on intestinal permeability in atopic dermatitis, urticaria and other symptoms of food allergy. André C, et al. **Allergy** 1989;44 Suppl 9:47–51
Pharmacological abnormalities in atopic dermatitis. Hanifin JM. **Allergy** 1989;44 Suppl 9:41–6 (35 ref.)
Intestinal permeability in patients with atopic eczema. Barba A, et al. **Br J Dermatol** 1989 Jan;120(1):71–5
Neuropeptide-like immunoreactivity in skin lesions of atopic dermatitis and psoriasis [letter] Fantini F, et al.
Br J Dermatol 1990 Jun;122(6):838–9
Immunomodulating cytokines in atopic dermatitis and psoriasis: production of tumour necrosis factor and lymphotoxin by mononuclear cells in vitro. Kapp A, et al. **Br J Dermatol** 1990 May;122(5):587–92
Neuropeptides in skin from patients with atopic dermatitis: an immunohistochemical study. Pincelli C, et al.
Br J Dermatol 1990 Jun;122(6):745–50
Interleukin-2 production of T cells in atopic dermatitis. Morita H, et al. **J Dermatol** 1990 Jun;17(6):375–9
Leukotriene B4 receptors on neutrophils in patients with psoriasis and atopic eczema. Meier F, et al.
Skin Pharmacol 1989;2(2):61–7

MICROBIOLOGY

Fungal flora of human faeces in psoriasis and atopic dermatitis. Buslau M, et al. **Mycoses** 1990 Feb;33(2):90–4

PATHOLOGY

Langerhans cells and atopic dermatitis. Braathen LR.
Acta Derm Venereol Suppl (Stockh) 1989;144:55–7 (24 ref.)
Heterogeneous distribution of mast cells in lichenified lesions of atopic dermatitis. Sugiura H, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:115–8
Mast cells in atopic dermatitis. Irani AM, et al. **Allergy** 1989; 44 Suppl 9:31–4
Eosinophils in atopic dermatitis. Leiferman KM. **Allergy** 1989;44 Suppl 9:20–6
Morphology of atopic eczema. Soter NA. **Allergy** 1989;44 Suppl 9:16–9
Cartilaginous pseudocyst of the external auricle in children with atopic eczema. Devlin J, et al. **Br J Dermatol** 1990 May;122(5):699–704
Langerhans cells in delayed skin reactions to inhalant allergens in atopic dermatitis—an electron microscopic study. Najem N, et al. **Clin Exp Dermatol** 1989 May; 14(3):218–22
A sequential double immunoenzymic staining procedure to obtain cell kinetic information in normal and hyperproliferative epidermis. Van Erp PE, et al.
Histochem J 1989 Jun;21(6):343–7
Poikiloderma-like lesions on the neck in atopic dermatitis: a histopathological study. Mukai H, et al. **J Dermatol** 1990 Feb;17(2):85–91
[Indented warts and secondary colonization of eczematous skin by molluscum contagiosum] Nasemann T.
Z Hautkr 1990 Jun;65(6):519–20 **(Ger)**
[The ultrastructure of interdigitating cells in atopic eczema] Klug H, et al. **Zentralbl Allg Pathol** 1989;135(5):417–23 (Eng. Abstr.) **(Ger)**
[Histological findings of patch tests with dermatofagoides antigens in atopic dermatitis of the adult type] Ito A, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Jan;100(1):63–9 (Eng. Abstr.) **(Jpn)**
[Morphological changes caused by the dermonecrosis factor of the causative agents of cholera and various other intestinal infections] Isupov IV, et al.
Biull Eksp Biol Med 1990 Apr;109(4):371–4 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Responses of skin temperature to different thermic stimuli in atopic eczema. Hornstein OP, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:149–52
Studies on dermographometry in atopic eczema. Hornstein OP, et al. **Acta Derm Venereol Suppl (Stockh)** 1989; 144:146–8
On definition and framework of atopic dermatitis. Rajka G.
Acta Derm Venereol Suppl (Stockh) 1989;144:10–2
Patch test reactions to inhalant allergens in atopic dermatitis. Reitamo S, et al. **Acta Derm Venereol Suppl (Stockh)** 1989; 144:119–21
Histamine and atopic eczema. Ring J, et al.
Acta Derm Venereol Suppl (Stockh) 1989;144:70–7 (95 ref.)
Natural history of atopic dermatitis in childhood: an updated review and personal experience of a five-year follow-up. Businco L, et al. **Allergy** 1989;44 Suppl 9:70–8 (48 ref.)
Sweating patterns in atopic dermatitis patients. Greene RM, et al. **Arch Dermatol Res** 1989;281(6):373–6
Growth in atopic eczema: a controlled study by questionnaire. Pike MG, et al. **Arch Dis Child** 1989 Nov; 64(11):1566–9
Cutaneous reactions to substance P and histamine in atopic dermatitis. Coulson IH, et al. **Br J Dermatol** 1990 Mar; 122(3):343–9
Susceptibility to irritants: role of barrier function, skin dryness and history of atopic dermatitis. Tupker RA, et al. **Br J Dermatol** 1990 Aug;123(2):199–205
[Langerhans cells in the physiopathology of atopic dermatitis] Bieber T, et al. **Ann Dermatol Venereol** 1990;117(3):185–93

(63 ref.) (Eng. Abstr.) (Fre)
[Atopic dermatitis] Wüthrich B. **Ther Umsch** 1989 Sep; 46(9):633–40 (22 ref.) (Eng. Abstr.) (Ger)
[Activity of the phagocytic process in patients with atopic dermatitis] Mielężyńska-Matej M, et al. **Przegl Dermatol** 1989 Jan-Mar;76(1):15–22 (Eng. Abstr.) (Pol)

PREVENTION & CONTROL

Atopic dermatitis and the indoor climate. Preventive measures related to the indoor climate. Beck HI, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:131–2
Role of maternal diet and mode of infant feeding in prevention of atopic dermatitis in high risk infants. Chandra RK. **Allergy** 1989;44 Suppl 9:135–9
[A chance for the prevention of atopic diseases] Melnik BC. **Monatsschr Kinderheilkd** 1990 Mar;138(3):162–6 (28 ref.) (Eng. Abstr.) (Ger)
[Can breast feeding prevent atopic dermatitis? Epidemiologic study of 144 cases] Monego A, et al. **Minerva Pediatr** 1989 May;41(5):223–7 (59 ref.) (Eng. Abstr.) (Ita)

PSYCHOLOGY

Pain threshold in patients with atopic eczema influenced by hypnosis. Hájek P, et al. **Act Nerv Super (Praha)** 1989 Oct; 31(3):222–3
Psychological and social factors of atopic dermatitis. Gil KM, et al. **Allergy** 1989;44 Suppl 9:84–9 (27 ref.)
Gradual increase in cutaneous threshold induced by repeated hypnosis of healthy individuals and patients with atopic eczema. Hájek P, et al. **Percept Mot Skills** 1990 Apr; 70(2):549–50
[Psychosomatic aspects of managing the atopic dermatitis patient] Bosse K. **Z Hautkr** 1990 May;65(5):422–7 (Eng. Abstr.) (Ger)
[The disease course and psychosocial events in inpatient treatment of atopic eczema patients—a pilot study] Hünecke P, et al. **Z Hautkr** 1990 May;65(5):428–34 (Eng. Abstr.) (Ger)
[Power relations in mother-child interactions in neurodermatitis constitutionalis atopica (atopic dermatitis)] Prochazka P, et al. **Z Hautkr** 1989 Oct 15;64(10):863–6 (4 ref.) (Eng. Abstr.) (Ger)

RADIOTHERAPY

Combined UVA–UVB versus UVB phototherapy for atopic dermatitis: a paired-comparison study. Jekler J, et al. **J Am Acad Dermatol** 1990 Jan;22(1):49–53
Ultraviolet radiation dosimetry in phototherapy for atopic dermatitis. Jekler J, et al. **J Am Acad Dermatol** 1990 Jul; 23(1):49–51

THERAPY

The management of the problem atopic child in 1988. Vickers CF. **Acta Derm Venereol Suppl (Stockh)** 1989;144:23–5
Breast feeding and atopic dermatitis. Björkstén B. **Allergy** 1989;44 Suppl 9:129–34 (38 ref.)
Antihistamines in atopic dermatitis. Ciprandi G, et al. **Allergy** 1989;44 Suppl 9:114–6
Management of atopic dermatitis. Rasmussen JE. **Allergy** 1989;44 Suppl 9:108–13 (28 ref.)
Recombinant gamma interferon in treatment of patients with atopic dermatitis and elevated IgE levels. Boguniewicz M, et al. **Am J Med** 1990 Apr;88(4):365–70
The effect of combined topical steroids and habit-reversal treatment in patients with atopic dermatitis. Norén P, et al. **Br J Dermatol** 1989 Sep;121(3):359–66
A preliminary study of psychological therapy in the management of atopic eczema. Horne DJ, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):241–8
Successful treatment of atopic dermatitis with complexes of allergen and specific antibodies [letter] Jacquemin MG, et al. **Lancet** 1990 Jun 16;335(8703):1468–9
Interferon-alpha for atopic dermatitis [letter] MacKie RM. **Lancet** 1990 May 26;335(8700):1282–3
Recombinant interferon-gamma in severe atopic dermatitis [letter] Reinhold U, et al. **Lancet** 1990 May 26; 335(8700):1282
Advances in nondietary management of children with atopic dermatitis. Rasmussen JE. **Pediatr Dermatol** 1989 Sep; 6(3):210–5 (30 ref.)
[Recommendations for the treatment and prevention of atopic dermatitis in children] Stögmann W. **Wien Med Wochenschr** 1989 Sep 30;139(18):414–21 (0 ref.) (Eng. Abstr.) (Ger)
[Short-term discharge as a diagnostic and therapeutic possibility in psychosomatically oriented treatment of the atopic eczema patient] Rowold C, et al. **Z Hautkr** 1990 May;65(5):437–43 (Eng. Abstr.) (Ger)
[Treatment of adult type atopic dermatitis (AD) with bacterial vaccine prepared from individual cases (I)—Clinical study] Mukai H, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Mar;100(4):487–94 (Eng. Abstr.) (Jpn)
[Treatment of adult type atopic dermatitis (AD) with bacterial vaccine prepared from individual cases (II)—The mechanism] Mukai H, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Mar;100(4):495–501 (Eng. Abstr.) (Jpn)
[Effect of various methods of immunocorrective therapy in children with allergic dermatoses and dermato-respiratory syndrome on the incidence of intercurrent viral infections] Ermakova MK. **Pediatriia** 1990;(5):112 (Rus)

VETERINARY

Allergic inhalant dermatitis attributable to marijuana exposure in a dog. Evans AG. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1588–90
Experience with hyposensitization [letter] Schultz K, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):1910–1
Morphometric analyses of the skin of dogs with atopic dermatitis and correlations with cutaneous and plasma histamine and total serum IgE. Wilkie JS, et al. **Vet Pathol** 1990 May;27(3):179–86

DERMATITIS, CONTACT

Juvenile plantar dermatosis (JPD). Verbov J. **Acta Derm Venereol Suppl (Stockh)** 1989;144:153–4
Introduction to contact allergy in the workplace. Adams RM. **Allergy Proc** 1990 May-Jun;11(3):121–2
Allergic contact dermatitis to nickel in children with atopic dermatitis. Cohen PR, et al. **Ann Allergy** 1990 Jul;65(1):73–9 (68 ref.)
Causes, diagnosis, and management of contact dermatitis. Oxholm A, et al. **Compr Ther** 1990 May;16(5):18–24 (19 ref.)
The "Codex-E": an expert system for contact dermatitis. Dooms-Goossens A, et al. **Contact Dermatitis** 1990 Mar; 22(3):180–1
Contact mycosis fungoides? [letter] Stransky L. **Contact Dermatitis** 1990 Jul;23(1):63
Contact dermatitis: a festschrift for Dr. Alexander A. Fisher. **Dermatol Clin** 1990 Jan;8(1):1–213
Contact hypersensitivity response to isophorone diisocyanate in mice. Stern ML, et al. **Drug Chem Toxicol** 1989 Sep-Dec; 12(3–4):287–96
Review of contact dermatitis for non-dermatologists. Hogan DJ. **J Fla Med Assoc** 1990 Jul;77(7):663–6 (12 ref.)
Photosensitivity dermatitis and actinic reticuloid syndrome (chronic actinic dermatitis). Ferguson J. **Semin Dermatol** 1990 Mar;9(1):47–54 (50 ref.)
[Contact urticaria] Tešin S. **Med Pregl** 1989;42(9–10):371–2 (Scr)

BLOOD

Serum concentrations in nickel-sensitive patients after prolonged oral administration. Santucci B, et al. **Contact Dermatitis** 1990 May;22(5):253–6

CHEMICALLY INDUCED

Airborne contact dermatitis due to triglycidylisocyanurate. Dooms-Goossens A, et al. **Contact Dermatitis** 1989 Sep; 21(3):202–3

COMPLICATIONS

Contact allergy in psoriatic patients with palmar and plantar lesions. Pašić A, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:66–8
Multiple osteonecrosis associated with allergic dermatitis. Amano M, et al. **Arch Orthop Trauma Surg** 1990; 109(3):170–2
Androgenetic alopecia—is contact dermatitis an accelerating factor? George AO. **Contact Dermatitis** 1990 Feb;22(2):112
Chloracne. Clinical manifestations and etiology. Zugerman C. **Dermatol Clin** 1990 Jan;8(1):209–13 (34 ref.)
Allergic airborne contact dermatitis to Compositae with photosensitivity—chronic actinic dermatitis in evolution. Murphy GH, et al. **Photodermatol Photoimmunol Photomed** 1990 Feb;7(1):38–9
[The hazards of contact allergies for patients with neurodermatitis] Fartasch M. **Hautarzt** 1989 Oct;40(10):650 (Ger)
[Erythema multiforme associated with contact sensitization. Description of 6 clinical cases] Seidenari S, et al. **G Ital Dermatol Venereol** 1990 Feb;125(1–2):35–40 (Eng. Abstr.) (Ita)

DIAGNOSIS

Patch testing for occupational allergens and the evaluation of patients with occupational contact dermatitis. Adams RM. **Allergy Proc** 1990 May-Jun;11(3):117–20
Contact dermatitis and diagnostic techniques. Rietschel RL. **Allergy Proc** 1989 Nov-Dec;10(6):403–11 (15 ref.)
Thermographic assessment of patch-test responses. Baillie AJ, et al. **Br J Dermatol** 1990 Mar;122(3):351–60
Dose-response relationships for topically applied antigens. Eun HC, et al. **Br J Dermatol** 1990 Apr;122(4):491–9
The discrimination between nickel-sensitive and non-nickel-sensitive subjects by an in vitro lymphocyte transformation test. Everness KM, et al. **Br J Dermatol** 1990 Mar;122(3):293–8
Individual and instrumental variations in irritant patch-test reactions—clinical evaluation and quantification by bioengineering methods. Agner T, et al. **Clin Exp Dermatol** 1990 Jan;15(1):29–33
Allergic contact dermatitis. Common allergens. Glass LF, et al. **Clin Rev Allergy** 1989 Winter;7(4):381–98 (81 ref.)
Patch testing. McGillis ST, et al. **Clin Rev Allergy** 1989 Winter;7(4):441–53 (31 ref.)
The use of laboratory methods in contact dermatitis induced by composite materials. Ayala F, et al. **Contact Dermatitis** 1990 May;22(5):262–6
Ranking of surfactant skin irritancy in vivo in man using the plastic occlusion stress test (POST). Berardesca E, et al. **Contact Dermatitis** 1990 Jul;23(1):1–5
Differentiation of allergic from irritant contact dermatitis by dermal fibrin deposition patterns. Beutner EH, et al. **Contact Dermatitis** 1989 Sep;21(3):198–200
The frequency of contact allergy in atopic patients with dermatitis. de Groot AC. **Contact Dermatitis** 1990 May; 22(5):273–7
Patch testing with the "sesquiterpene lactone mix": a marker for contact allergy to Compositae and other sesquiterpene-lactone-containing plants. A multicentre study of the EECDRG. Ducombs G, et al. **Contact Dermatitis** 1990 May;22(5):249–52
Multiple parameter assessment of vulvar irritant contact dermatitis. Elsner P, et al. **Contact Dermatitis** 1990 Jul; 23(1):20–6
Water versus petrolatum for testing imidazolidinyl urea. Foussereau J, et al. **Contact Dermatitis** 1989 Jul;21(1):54–5
Patch test sensitivity to the preservative Kathon CG in Spain. Hasson A, et al. **Contact Dermatitis** 1990 May;22(5):257–61
Primin standard patch testing: 5 years experience. Ingber A, et al. **Contact Dermatitis** 1990 Jul;23(1):15–9
Patch testing in Hong Kong. Lee TY, et al. **Contact Dermatitis** 1989 Sep;21(3):148–53
European multicenter study of TRUE Test, Panel 2. Wilkinson JD, et al. **Contact Dermatitis** 1990 Apr; 22(4):218–25
Effect of the vehicle on non-immunologic immediate contact reactions. Ylipieti S, et al. **Contact Dermatitis** 1989 Aug; 21(2):105–6
Primula contact dermatitis: an easily overlooked diagnosis. Epstein E. **Cutis** 1990 Jun;45(6):411–6
Proallergens of formaldehyde applied in patch testing of formaldehyde contact allergy. Hansen J, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 2):838–40
Methylchloroisothiazolinone-methylisothiazolinone reactions in patients screened for vehicle and preservative hypersensitivity. Rietschel RL, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):734–8
Mean wheal diameter in skin tests for castor bean extracts in castor bean allergic workers of eastern Sudan. Fakhri ZI. **J Soc Occup Med** 1989 Winter;39(4):144–6
Clinical aspects of contact dermatitis. Whittington C. **Prim Care** 1989 Sep;16(3):729–38 (20 ref.)
Computer analysis of patients undergoing contact dermatitis investigation. Beck MH, et al. **Semin Dermatol** 1989 Jun; 8(2):105
Impact of individual factors on clinical patch test results with special reference to age. Christophersen J, et al. **Semin Dermatol** 1989 Jun;8(2):127–9
[Comparative histology and immunohistochemistry of tests of immediate allergic reaction and type I contact dermatitis] Gruschwitz M, et al. **Ann Dermatol Venereol** 1989; 116(9):637–45 (Eng. Abstr.) (Fre)
[The problem of the "epicutaneous standard test"] Frosch PJ. **Derm Beruf Umwelt** 1989 Jul-Aug;37(4):152 (Ger)
[Model antigens and their significance for occupational dermatology] Schwartze G, et al. **Z Gesamte Hyg** 1989 Jul;35(7):422–3 (Eng. Abstr.) (Ger)
[The early detection of allergic dermatoses and mycoses of the feet in workers in contact with phenol–formaldehyde resins] Bannikov EA, et al. **Vestn Dermatol Venerol** 1990; (3):19–21 (Eng. Abstr.) (Rus)
[Skin changes in workers in plywood manufacture] Bannikov EA, et al. **Vestn Dermatol Venerol** 1990;(2):53–4 (Eng. Abstr.) (Rus)
[The importance of a battery of tests in the etiologic diagnosis of allergic contact dermatitis] Jovović D, et al. **Srp Arh Celok Lek** 1987 May-Jun;115(5–6):583–8 (Eng. Abstr.) (Scc)

DRUG THERAPY

Topical application of cyclosporine on guinea pig allergic contact dermatitis [letter; comment] Lembo G, et al. **Arch Dermatol** 1989 Oct;125(10):1431–2 Comment on: Arch Dermatol 1988 Jun;124(6):907–10.
Studies on medicinal resources from livestock. II. Anti-allergic effects of pig bile. (2). Nakagami T, et al. **Chem Pharm Bull (Tokyo)** 1990 Mar;38(3):706–8
Rational use of antihistamines in allergic dermatological conditions. Advenier C, et al. **Drugs** 1989 Oct;38(4):634–44 (60 ref.)
Effects of rifampin treatment on contact sensitivity reactions to oxazolone in Balb/C mice. Liakopoulou A. **Immunopharmacol Immunotoxicol** 1989;11(2–3):179–92
PUVA treatment inhibits nonimmunologic immediate contact reactions to benzoic acid and methyl nicotinate. Larmi E. **Int J Dermatol** 1989 Nov;28(9):609–11
Treatment of dermatitis caused by the sesquiterpene lactone helenin. Picman J, et al. **Pharmazie** 1990 Jan;45(1):57–9
[Pharmacological studies on leaf of Arctostaphylos uva-ursi (L.) Spreng. I. Combined effect of 50% methanolic extract from Arctostaphylos uva-ursi (L.) Spreng. (bearberry leaf) and prednisolone on immuno-inflammation] Kubo M, et al. **Yakugaku Zasshi** 1990 Jan;110(1):59–67 (Eng. Abstr.) (Jpn)
[Pharmacological study on Arctostaphylos uva-ursi (L.) Spreng. II. Combined effects of arbutin and prednisolone or dexamethazone on immuno-inflammation] Matsuda H,

et al. **Yakugaku Zasshi** 1990 Jan;110(1):68–76 (Eng. Abstr.) **(Jpn)**

[The effect of batriden and dexasone on immune status indices in animals with experimental allergic contact dermatitis] Allamiiarova SA, et al. **Vestn Dermatol Venerol** 1989; (10):8–10 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Flow cytometric analysis of protein kinase C in lymph node cells during the induction phase of contact hypersensitivity reaction. Morita H, et al. **J Dermatol** 1989 Oct;16(5):352–4

EPIDEMIOLOGY

Skin diseas : in the pottery industry. Smith AG. **Ann Occup Hyg** 1989;33(3):365–8

Allergic contact dermatitis in children and young adults. Kuiters GR, et al. **Arch Dermatol** 1989 Nov;125(11):1531–3 (16 ref.)

Protein contact dermatitis in slaughterhouse workers. Hansen KS, et al. **Contact Dermatitis** 1989 Oct;21(4):221–4

Occupational dermatoses in farmers growing okra (Hibiscus esculentus L.). Matsushita T, et al. **Contact Dermatitis** 1989 Nov;21(5):321–5

Prevalence of occupational contact dermatitis in hairdressers. Rivett J, et al. **Contact Dermatitis** 1990 May;22(5):304–5

Factors predisposing to cutaneous irritation. Wilhelm KP, et al. **Dermatol Clin** 1990 Jan;8(1):17–22 (46 ref.)

Occupational health problems and adverse patient reactions in orthodontics. Jacobsen N, et al. **Eur J Orthod** 1989 Aug; 11(3):254–64

Reproducibility of patch tests. Gollhausen R, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1196–202

Dermatoses among floral shop workers. Thiboutot DM, et al. **J Am Acad Dermatol** 1990 Jan;22(1):54–8

ALLDAT: an allergy data system for storage and analysis of test data with regard to epidemiological and occupational dermatology. Diepgen TL, et al. **Semin Dermatol** 1989 Jun;8(2):101–2

Epidemiology of contact dermatitis. Sertoli A, et al. **Semin Dermatol** 1989 Jun;8(2):120–6

Caterpillar envenomations: a prospective study of 112 cases. Everson GW, et al. **Vet Hum Toxicol** 1990 Apr;32(2):114–9

[Electronic data processing storage and analysis of allergologic data with reference to epidemiologic and occupational dermatologic aspects] Diepgen TL, et al. **Derm Beruf Umwelt** 1989 Sep–Oct;37(5):163–7 (Eng. Abstr.) **(Ger)**

[Epidemiology of occupational dermatoses in the Potsdam district (V)] Laubstein H, et al. **Dermatol Monatsschr** 1989; 175(7):425–36 (Eng. Abstr.) **(Ger)**

[Epidemiologic study of hand eczema] Niimura M. **Nippon Hifuka Gakkai Zasshi** 1989 Dec;99(13):1309–11 **(Jpn)**

ETIOLOGY

Chromate sensitization and elicitation from cement with iron sulfate. Bruze M, et al. **Acta Derm Venereol (Stockh)** 1990; 70(2):160–2

Contact dermatitis by sensitization to amine–type antioxidants. Soto J, et al. **Allergol Immunopathol (Madr)** 1989 Sep–Oct;17(5):263–5

Dermatitis in food service workers. Adams RM. **Allergy Proc** 1990 May–Jun;11(3):123–4

Dermatitis in grocery workers associated with high natural concentrations of furanocoumarins in celery. Fleming D. **Allergy Proc** 1990 May–Jun;11(3):125–7

Marine envenomations and aquatic dermatology [letter; comment] Parrish DO. **Am Fam Physician** 1990 Apr; 41(4):1092–4, 1099 Comment on: Am Fam Physician 1989 Aug;40(2):97–106.

Tulip fingers. Gette MT, et al. **Arch Dermatol** 1990 Feb; 126(2):203–5

Evaluation of skin irritation and contact sensitizing potential of fenticonazole. Pigatto P, et al. **Arzneimittelforschung** 1990 Mar;40(3):329–31

Spectacle frame dermatitis due to paraphenylenediamine. Doherty E, et al. **Australas J Dermatol** 1988;29(2):113–5

Nickel-sensitive patients with vesicular hand eczema: oral challenge with a diet naturally high in nickel. Nielsen GD, et al. **Br J Dermatol** 1990 Mar;122(3):299–308

Nickel–keratinocyte interaction: a possible role in sensitization. Picardo M, et al. **Br J Dermatol** 1990 Jun; 122(6):729–35

Potential for irritation increases from the wrist to the cubital fossa. Van der Valk PG, et al. **Br J Dermatol** 1989 Dec; 121(6):709–12

Excipients in topical corticosteroid preparations in Canada [letter; comment] Hogan DJ. **Can Med Assoc J** 1989 Nov 15;141(10):1032 Comment on: Can Med Assoc J 1989 Sep 1;141(5):399–404.

Allergic contact dermatitis from formaldehyde in a liquid soap. Zemtsov A, et al. **Cleve Clin J Med** 1990 May; 57(3):301–3

Adverse effects of corticosteroids: I. Topical and intralesional. Coskey RJ. **Clin Dermatol** 1986 Jan–Mar; 4(1):155–60 (77 ref.)

Systemic contact–type dermatitis due to drugs. Fisher AA. **Clin Dermatol** 1986 Jan–Mar;4(1):58–69 (62 ref.)

The Prosser White oration 1988. Mischievous metals—chromate, cobalt, nickel and mercury. Burrows D. **Clin Exp Dermatol** 1989 Jul;14(4):266–72 (61 ref.)

Dermatitis from metalworking fluids. Foulds IS, et al. **Clin Exp Dermatol** 1990 May;15(3):157–62 (48 ref.)

Eczematous dermatitis in relation to carbon ligamentoplasty. Pibouin M, et al. **Clin Exp Dermatol** 1989 Sep;14(5):352–4

Dermatitis–sympathetic dysfunction in carpal tunnel syndrome. A case report. Fast A, et al. **Clin Orthop** 1989 Oct;(247):124–6

Plant–related allergic contact dermatitis. Burrall BA. **Clin Rev Allergy** 1989 Winter;7(4):417–39 (76 ref.)

Occupational allergic contact dermatitis. Nethercott JR, et al. **Clin Rev Allergy** 1989 Winter;7(4):399–415 (54 ref.)

Allergy to ethyl chloride does occur, and might frequently be misdiagnosed. Aberer W, et al. **Contact Dermatitis** 1989 Nov;21(5):352–3

Different skin irritation abilities of different qualities of sodium lauryl sulphate. Agner T, et al. **Contact Dermatitis** 1989 Sep;21(3):184–8

Contact allergy to the preservative Kathon CG. Aguirre Martin–Falero A, et al. **Contact Dermatitis** 1990 Mar; 22(3):185

Allergic contact dermatitis from fluocortin butyl. Aguirre Martinez–Falero A, et al. **Contact Dermatitis** 1990 Apr; 22(4):241–2

Occupational allergic contact dermatitis in east coast of England fishermen: newly described hypersensitivities to marine organisms. Ashworth J, et al. **Contact Dermatitis** 1990 Mar;22(3):185–6

Sensitizing potential of cyclobutenediones [published erratum appears in Contact Dermatitis 1990 May;22(5):312] Avalos J, et al. **Contact Dermatitis** 1989 Nov;21(5):341–2

Contact sensitivity to polyethylene glycols. Bajaj AK, et al. **Contact Dermatitis** 1990 May;22(5):291–2

Allergic contact dermatitis from Cerumenex in a child. Balato N, et al. **Contact Dermatitis** 1989 Nov;21(5):348–9

Contact anaphylactoid response to labetalol. Bause GS, et al. **Contact Dermatitis** 1990 Jul;23(1):51

Allergic contact dermatitis from the essential oil of French marigold (Tagetes patula) in an aromatherapist. Bilsland D, et al. **Contact Dermatitis** 1990 Jul;23(1):55–6

Short induction phase of contact allergy to tixocortol pivalate in a nasal spray. Bircher AJ. **Contact Dermatitis** 1990 Apr; 22(4):237–8

Allergic reactions to topical desoxymethasone and oral triamcinolone. Brambilla L, et al. **Contact Dermatitis** 1989 Oct;21(4):272–4

Allergy to dyes in permanent–press bed linen. Brown R. **Contact Dermatitis** 1990 May;22(5):303–4

Patch testing with degradation products of Kathon CG. Bruze M, et al. **Contact Dermatitis** 1989 Aug;21(2):124–5

Occupational allergic contact dermatitis due to methylisothiazolinones in a cleansing cream. Bruze M, et al. **Contact Dermatitis** 1990 Apr;22(4):235–7

Isolated naphthylamine allergy to phenyl–alpha–naphthylamine. Carmichael AJ, et al. **Contact Dermatitis** 1990 May;22(5):298–9

Allergic contact dermatitis from transdermal nitroglycerin. Carmichael AJ, et al. **Contact Dermatitis** 1989 Aug; 21(2):113–4

Systemic contact dermatitis due to parabens. Carradori S, et al. **Contact Dermatitis** 1990 Apr;22(4):238–9

Allergy to nickel or cobalt: tolerance to nickel and cobalt samples in man and in the guinea pig allergic or sensitized to these metals. Cavelier C, et al. **Contact Dermatitis** 1989 Aug;21(2):72–8

Occupational allergic contact dermatitis from styrene. Condé–Salazar L, et al. **Contact Dermatitis** 1989 Aug; 21(2):112

Compound allergy to a skin marker for patch testing: a chromatographic analysis. Cox NH, et al. **Contact Dermatitis** 1989 Jul;21(1):12–5

Contact dermatitis from animal proteins in a milker. Crippa M, et al. **Contact Dermatitis** 1990 Apr;22(4):240

Contact dermatitis from dexchlorpheniramine. Cusano F, et al. **Contact Dermatitis** 1989 Nov;21(5):340

Long–term prognosis in occupational chromate allergy: an attempted 18–year follow–up study. Dannaker CJ, et al. **Contact Dermatitis** 1989 Jul;21(1):59

Non–occupational metal–related contact reactions in women with psoriasis. Dave VK, et al. **Contact Dermatitis** 1989 Sep;21(3):194–5

Delayed and immediate hypersensitivity to carbitols. Dawson TA, et al. **Contact Dermatitis** 1989 Jul;21(1):52–3

Cosmetic allergy from the aminoketone colour basic blue 99 (CI 56059). de Groot AC, et al. **Contact Dermatitis** 1990 Jul;23(1):56–7

Contact allergy to furazolidone. de Groot AC, et al. **Contact Dermatitis** 1990 Apr;22(4):202–5 (20 ref.)

Clinical evidence of cross–sensitivity between thiosalicylic acid, a contact allergen, and piroxicam, a photoallergen. de la Cuadra J, et al. **Contact Dermatitis** 1989 Nov; 21(5):349–51

Contact dermatitis from Nitroderm. Di Landro A, et al. **Contact Dermatitis** 1989 Aug;21(2):115–6

Irritant contact dermatitis in a child caused by the plastic tube of an infusion system. Di Lernia V, et al. **Contact Dermatitis** 1989 Nov;21(5):339–40

Connubial contact dermatitis from nifuratel. Di Prima TM, et al. **Contact Dermatitis** 1990 Feb;22(2):117–8

Allergic contact dermatitis from BHT in leg ulcer patients. Dissanayake M, et al. **Contact Dermatitis** 1989 Sep;21(3):195

Primula dermatitis: more than one allergen? Dooms–Goossens A, et al. **Contact Dermatitis** 1989 Aug; 21(2):122–4

Hexamidine isethionate: a sensitizer in topical pharmaceutical products and cosmetics. Dooms–Goossens A, et al. **Contact Dermatitis** 1989 Oct;21(4):270

Propylene glycol allergy from ketoconazole cream. Eun HC, et al. **Contact Dermatitis** 1989 Oct;21(4):274–5

Occupational contact dermatitis in 2 dental technicians. Farli M, et al. **Contact Dermatitis** 1990 May;22(5):282–7

Contact dermatitis from phenyl salicylate in a galenic cream. Fimiani M, et al. **Contact Dermatitis** 1990 Apr;22(4):239

An epidemiological study of contact allergy to 5–chloro–3–methyl isothiazolone/3–methyl isothiazolone in Strasbourg. Foussereau J. **Contact Dermatitis** 1990 Feb; 22(2):68–70

Contact dermatitis due to diisopropanolamine. Fujimoto K, et al. **Contact Dermatitis** 1989 Jul;21(1):56

Hypersensitivity to ketoconazole preparations: study of 4 cases. Garcia–Bravo B, et al. **Contact Dermatitis** 1989 Nov; 21(5):346–8

Clinical aspects of para–tertiary–butylphenolformaldehyde resin (PTBP–FR) allergy. Geldof BA, et al. **Contact Dermatitis** 1989 Nov;21(5):312–5

Local bullous reaction to topical mechlorethamine (mustine). Goday JJ, et al. **Contact Dermatitis** 1990 May;22(5):306–7

Contact sensitivity to topical antimicrobials (I). Epidemiology in Singapore. Goh CL. **Contact Dermatitis** 1989 Jul;21(1):46–8

Contact sensitivity to topical antimicrobials. (II). Sensitizing potentials of some topical antimicrobials. Goh CL. **Contact Dermatitis** 1989 Sep;21(3):166–71

Allergic contact dermatitis in a pastry cook. Gola M, et al. **Contact Dermatitis** 1989 Jul;21(1):57

Allergic contact dermatitis from Nicotiana tabacum. Gonçalo M, et al. **Contact Dermatitis** 1990 Mar;22(3):188–9

Contact and photocontact dermatitis from Ruta chalepensis. Gonçalo S, et al. **Contact Dermatitis** 1989 Sep;21(3):200–1

Allergic contact dermatitis potential of 3 pyridostigmine bromide transdermal drug delivery formulations. Harris GL, et al. **Contact Dermatitis** 1989 Sep;21(3):189–93

The sensitizing capacity of hydroxyperezone. Hausen BM, et al. **Contact Dermatitis** 1989 Aug;21(2):120–1

Contact allergy to Australian blackwood (Acacia melanoxylon R.Br.): isolation and identification of new hydroxyflavan sensitizers. Hausen BM, et al. **Contact Dermatitis** 1990 Jul;23(1):33–9

The sensitizing capacity of coumarins (III). Hausen BM, et al. **Contact Dermatitis** 1989 Sep;21(3):141–7

The nickel content of metallic threads in an Indian shawl. Hegyi E, et al. **Contact Dermatitis** 1989 Aug;21(2):107

The nickel content of moulded bricks as building material. Hegyi E, et al. **Contact Dermatitis** 1989 Jul;21(1):63

Contact dermatitis from cyclohexanone–formaldehyde resin (L2 resin) in a hair lacquer spray. Heine A, et al. **Contact Dermatitis** 1990 Feb;22(2):108

Contact dermatitis from ketone–formaldehyde resins [letter] Heine A, et al. **Contact Dermatitis** 1990 Apr;22(4):247

Contact dermatitis from topical imidazole antifungals: 15 new cases. Jelen G, et al. **Contact Dermatitis** 1989 Jul;21(1):6–11

A new allergen responsible for shoe allergy: chloroacetamide. Jelen G, et al. **Contact Dermatitis** 1989 Aug;21(2):110–1

Allergic contact dermatitis from budesonide. Jerez J, et al. **Contact Dermatitis** 1990 Apr;22(4):231–2

Contact allergy to Manilla resin. Nomenclature and physico–chemistry of Manilla, kauri, damar and copal resins. Jost T, et al. **Contact Dermatitis** 1989 Oct; 21(4):228–38 (27 ref.)

Allergic contact dermatitis from ethyl sebacate. Kabasawa Y, et al. **Contact Dermatitis** 1990 Apr;22(4):226

Maleopimaric acid—a potent sensitizer in modified rosin. Karlberg AT, et al. **Contact Dermatitis** 1990 Apr; 22(4):193–201

Occupational dermatoses and allergy to metals in Polish construction workers manufacturing prefabricated building units. Kieć–Swierczyńska M. **Contact Dermatitis** 1990 Jul; 23(1):27–32

The murine local lymph node assay for identification of contact allergens: a preliminary evaluation of in situ measurement of lymphocyte proliferation. Kimber I, et al. **Contact Dermatitis** 1989 Oct;21(4):215–20

Acupuncture needle dermatitis. Koizumi H, et al. **Contact Dermatitis** 1989 Nov;21(5):352

Allergic contact dermatitis from propyl gallate: dose response comparison using various application methods. Kraus AL, et al. **Contact Dermatitis** 1990 Mar;22(3):132–6

Airborne contact dermatitis from colophony: phototoxic reaction? Krutmann J, et al. **Contact Dermatitis** 1989 Oct; 21(4):275–6

Allergic contact dermatitis from gardenia fruit. Kubo Y, et al. **Contact Dermatitis** 1990 Feb;22(2):65–7

Occupational contact allergy to 2,4–diamino–6–chloromethylpteridine hydrochloride: an intermediate product in methotrexate synthesis. Lahti A, et al. **Contact Dermatitis** 1990 May;22(5):294

Nickel sensitivity and the course of atopic dermatitis in adulthood. Lammintausta K, et al. **Contact Dermatitis** 1990 Mar;22(3):144–7

Allergic contact dermatitis from a vasoconstrictor cream. Landa N, et al. **Contact Dermatitis** 1990 May;22(5):290–1

Contact allergy to ketoprofen. Lanzarini M, et al. **Contact Dermatitis** 1989 Jul;21(1):51

Contact allergy to the fungicide benomyl? Larsen AI, et al. **Contact Dermatitis** 1990 May;22(5):278–81

A case of allergic contact dermatitis due to nickel in underground water. Lee AY, et al. **Contact Dermatitis** 1990 Mar;22(3):141–3

Patch testing of 11 common herbal topical medicaments in Hong Kong. Lee TY, et al. **Contact Dermatitis** 1990 Mar; 22(3):137–40

Facial dermatitis caused by chlorothalonil in a paint. Lidén C. **Contact Dermatitis** 1990 Apr;22(4):206–11

Contact sensitivity to para-tertiary-butylcatechol in an artificial limb. Macfarlane AW, et al. **Contact Dermatitis** 1990 Jan;22(1):56–7

Patch test sensitivity to Kathon CG in Prague. Macháčková J, et al. **Contact Dermatitis** 1990 Mar;22(3):189–91

Allergic reactions to fragrance-mix and its components. Malanin G, et al. **Contact Dermatitis** 1989 Jul;21(1):62–3

Contact dermatitis from myoelectric prostheses. Manneschi V, et al. **Contact Dermatitis** 1989 Aug;21(2):116–7

Allergic contact dermatitis from hydrangea. Meijer P, et al. **Contact Dermatitis** 1990 Jul;23(1):59–60

Allergic contact dermatitis from tobramycin. Menéndez Ramos F, et al. **Contact Dermatitis** 1990 May;22(5):305–6

Allergic contact dermatitis from trifluoridine in eyedrops. Millán-Parrilla F, et al. **Contact Dermatitis** 1990 May; 22(5):289

Allergic contact dermatitis from Kathon CG in moist toilet paper. Minet A, et al. **Contact Dermatitis** 1989 Aug; 21(2):107–8

Contact eczema from famotidine. Monteseirín J, et al. **Contact Dermatitis** 1990 May;22(5):290

Occupational contact dermatitis from pyrocatechol. Morelli R, et al. **Contact Dermatitis** 1989 Sep;21(3):201–2

Contact allergy to Tego 103G disinfectant in a deep-sea diver. Munro CS, et al. **Contact Dermatitis** 1989 Oct; 21(4):278–9

Immediate and delayed photocontact dermatitis from isopropyl dibenzoylmethane. Murphy GM, et al. **Contact Dermatitis** 1990 Mar;22(3):129–31

Contact allergy to sodium hypochlorite in Eusol. Ng SK, et al. **Contact Dermatitis** 1989 Oct;21(4):281

Contact allergy to 3,4-dicarbethoxyhexane-2,5-dione. Niklasson B, et al. **Contact Dermatitis** 1990 Jul;23(1):46–7

Occupational contact dermatitis from antitumor agent intermediates. Niklasson B, et al. **Contact Dermatitis** 1990 Apr;22(4):233–5

Contact allergy to the UV-absorber Tinuvin P in plastics. Niklasson B, et al. **Contact Dermatitis** 1989 Nov;21(5):330–4

Polyamine sensitization in offshore workers handling drilling muds. Ormerod AD, et al. **Contact Dermatitis** 1989 Nov; 21(5):326–9

Allergic contact dermatitis due to tromantadine hydrochloride. Patruno C, et al. **Contact Dermatitis** 1990 Mar;22(3):187

Contact dermatitis due to nickel in fertilizers. Pecegueiro M. **Contact Dermatitis** 1990 Feb;22(2):114–5

Soluble oil dermatitis: a follow-up study. Pryce DW, et al. **Contact Dermatitis** 1989 Jul;21(1):28–35

Contact dermatitis from propolis. Ratón JA, et al. **Contact Dermatitis** 1990 Mar;22(3):183–4

Detection of contact hypersensitivity to topical corticosteroids with hydrocortisone-17-butyrate. Reitamo S, et al. **Contact Dermatitis** 1989 Sep;21(3):159–65

Contact allergens of an urban shrub Wigandia caracasana. Reynolds GW, et al. **Contact Dermatitis** 1989 Aug; 21(2):65–8

Allergic contact dermatitis from a sulfosuccinate derivative in a hand cleanser. Reynolds NJ, et al. **Contact Dermatitis** 1990 Jan;22(1):59–60

Allergic contact dermatitis from topical corticosteroids. Rivara G, et al. **Contact Dermatitis** 1989 Aug;21(2):83–91 (65 ref.)

Contact dermatitis from Naphthol AS. Roed-Petersen J, et al. **Contact Dermatitis** 1990 Mar;22(3):161–3

Sensitization to fragrance materials in Indonesian cosmetics. Roesyanto-Mahadi ID, et al. **Contact Dermatitis** 1990 Apr; 22(4):212–7

Allergic contact dermatitis due to stick deodorant. Rogers S, et al. **Contact Dermatitis** 1989 Aug;21(2):112–3

Eczematous and purpuric allergic contact dermatitis from boots. Romaguera C, et al. **Contact Dermatitis** 1989 Oct; 21(4):269

Contact sensitivity to meth(acrylates) in a limb prosthesis. Romaguera C, et al. **Contact Dermatitis** 1989 Aug;21(2):125

Allergic contact dermatitis from shoes: "angry back" without "angry thigh". Romaguera C, et al. **Contact Dermatitis** 1989 Oct;21(4):267

Contact allergy in the pharmaceutical industry. Rudzki E, et al. **Contact Dermatitis** 1989 Aug;21(2):121–2

Occupational dermatitis from Synacril Red 3b liquid (CI Basic Red 22). Sadhra S, et al. **Contact Dermatitis** 1989 Nov;21(5):316–20

Nickel dermatitis from cheap earrings. Santucci B, et al. **Contact Dermatitis** 1989 Oct;21(4):245–8

Perioral dermatitis in a child due to rosin in chewing gum. Satyawan I, et al. **Contact Dermatitis** 1990 Mar;22(3):182–3

Contact dermatitis due to piperazine in a plastic watch strap. Savini C, et al. **Contact Dermatitis** 1990 Feb;22(2):119–20

Contact dermatitis due to ethoxyquin. Savini C, et al. **Contact Dermatitis** 1989 Nov;21(5):342–3

Allergic contact dermatitis from idoxuridine. Senff H, et al. **Contact Dermatitis** 1990 Jul;23(1):43–5

Contact dermatitis from chrysanthemums in India. Sharma SC, et al. **Contact Dermatitis** 1989 Aug;21(2):69–71

Airborne contact dermatitis from Compositae plants in northern India. Sharma SC, et al. **Contact Dermatitis** 1989 Jul;21(1):1–5

Allergic contact dermatitis from croconazole hydrochloride. Shono M, et al. **Contact Dermatitis** 1989 Oct;21(4):225–7

Allergic contact dermatitis from epsilon-aminocaproic acid. Shono M. **Contact Dermatitis** 1989 Aug;21(2):106–7

Chromate in colour television tube manufacture. Sinclair S, et al. **Contact Dermatitis** 1989 Nov;21(5):353

Dermatological problems of workers employed in cashew nut factories [letter; comment] Srinivas CR, et al. **Contact Dermatitis** 1990 Mar;22(3):192 Comment on: Contact Dermatitis 1989 Apr;20(4):274–9.

Failure of acrolein to produce sensitization in the guinea pig maximization test. Susten AS, et al. **Contact Dermatitis** 1990 May;22(5):299–300

Australian blackwood dermatitis. Tilsley DA. **Contact Dermatitis** 1990 Jul;23(1):40–1

Allergic contact dermatitis from fluocortin butylester. Tosti A, et al. **Contact Dermatitis** 1990 Feb;22(2):123–4

Contact urticaria during topical immunotherapy. Tosti A, et al. **Contact Dermatitis** 1989 Sep;21(3):196–7

Dermal contact dermatitis from benzylparaben. Tosti A, et al. **Contact Dermatitis** 1989 Jul;21(1):49–51

Occupational contact dermatitis due to quaternium 15. Tosti A, et al. **Contact Dermatitis** 1990 Jul;23(1):41–2

Contact sensitization to diazolidinyl urea: report of 3 cases. Tosti A, et al. **Contact Dermatitis** 1990 Feb;22(2):127–8

Contact dermatitis due to a natural plasticine. Tosti A, et al. **Contact Dermatitis** 1990 May;22(5):301–2

Accidental diagnosis of aluminium sensitivity with Finn Chambers. Tosti A, et al. **Contact Dermatitis** 1990 Jul; 23(1):48–9

Contact allergy to spices. van den Akker TW, et al. **Contact Dermatitis** 1990 May;22(5):267–72

Post-application occlusion substantially increases the irritant response of the skin to repeated short-term sodium lauryl sulfate (SLS) exposure. Van der Valk PG, et al. **Contact Dermatitis** 1989 Nov;21(5):335–8

Allergic contact dermatitis from nickel in eyeshadow [letter; comment] van Ketel WG, et al. **Contact Dermatitis** 1989 Nov;21(5):355 Comment on: Contact Dermatitis 1989 May;20(5):380–1.

Low nickel diet [letter] Veien NK. **Contact Dermatitis** 1990 May;22(5):310

Contact urticaria from kiwi fruit. Veraldi S, et al. **Contact Dermatitis** 1990 Apr;22(4):244

Allergic contact dermatitis from colophony in a wart gel. Veraldi S, et al. **Contact Dermatitis** 1990 Mar;22(3):184

Contact dermatitis from furaltadone in animal feed. Vilaplana J, et al. **Contact Dermatitis** 1990 Apr;22(4):232–3

Pacemaker dermatitis. Weiss R. **Contact Dermatitis** 1989 Nov; 21(5):343–4

Mercury as a contact allergen. Wekkeli M, et al. **Contact Dermatitis** 1990 May;22(5):295–6

Nickel dermatitis from a dental prosthesis without buccal involvement. Wilson AG, et al. **Contact Dermatitis** 1989 Jul;21(1):53

An unusual case of allergic contact dermatitis in a veterinary surgeon. Wilson CL, et al. **Contact Dermatitis** 1990 Jul; 23(1):42–3

Contact allergy to Compositae plants in patients with summer-exacerbated dermatitis. Wrangsjö K, et al. **Contact Dermatitis** 1990 Mar;22(3):148–54

An unusual delayed patch test reaction to para-tertiary-butylcatechol. Yu RC, et al. **Contact Dermatitis** 1990 Feb;22(2):110–1

Rubber latex allergy: unusual complication during surgery. Zenarola P. **Contact Dermatitis** 1989 Sep;21(3):197–8

Contact hypersensitivity. Friedmann PS. **Curr Opin Immunol** 1989 Apr;1(4):690–3 (9 ref.)

Reactions to sulfites in foods: delayed eczematous and immediate urticarial, anaphylactoid, and asthmatic reactions. Part III. Fisher AA. **Cutis** 1989 Sep;44(3):187–90

Allergic contact dermatitis of the hands from Sporicidin (glutaraldehyde-phenate) used to disinfect endoscopes. Fisher AA. **Cutis** 1990 Apr;45(4):227–8

Perfume dermatitis in children sensitized to balsam of Peru in topical agents. Fisher AA. **Cutis** 1990 Jan;45(1):21–3

Nickel dermatitis. Krushell JS, et al. **Cutis** 1990 Feb; 45(2):87–8 (10 ref.)

Occupational dermatoses in workers exposed to epoxy-impregnated fiberglass fabric. Bruze M, et al. **Derm Beruf Umwelt** 1989 Sep-Oct;37(5):171–6

Effects of infra-red and neodymium yttrium aluminium garnet laser irradiation on non-immunologic immediate contact reactions to benzoic acid and methyl nicotinate. Larmi E, et al. **Derm Beruf Umwelt** 1989 Nov-Dec; 37(6):210–4

Changing patterns of contact sensitivity in Sofia. Stransky L, et al. **Derm Beruf Umwelt** 1989 Nov-Dec;37(6):214–6

Alstroemeria. A new and potent allergen for florists. Adams RM, et al. **Dermatol Clin** 1990 Jan;8(1):73–6

Contact dermatitis in hospital patients. Ancona A, et al. **Dermatol Clin** 1990 Jan;8(1):95–105 (41 ref.)

Mite dermatitis other than scabies. Blankenship ML. **Dermatol Clin** 1990 Apr;8(2):265–75 (11 ref.)

Analgesic spray contact dermatitis. Camarasa JG. **Dermatol Clin** 1990 Jan;8(1):137–8

Nickel dermatitis. An update. Christensen OB. **Dermatol Clin** 1990 Jan;8(1):37–40 (43 ref.)

Rubber dermatitis. Clinical forms. Conde-Salazar L. **Dermatol Clin** 1990 Jan;8(1):49–55 (59 ref.)

Allergic contact dermatitis to nasturtium. Diamond SP, et al. **Dermatol Clin** 1990 Jan;8(1):77–80

Allergic contact dermatitis from safety clothes and individual protective devices. Foussereau J, et al. **Dermatol Clin** 1990 Jan;8(1):127–32 (32 ref.)

Contact allergy to propylene glycol. Do we use the appropriate test concentration? Frosch PJ, et al. **Dermatol Clin** 1990 Jan;8(1):111–3

Magnolia grandiflora dermatitis. Guin JD, et al. **Dermatol Clin** 1990 Jan;8(1):81–4

Allergic contact dermatitis to ethylenediamine. A continuing problem. Hogan DJ. **Dermatol Clin** 1990 Jan;8(1):133–6 (17 ref.)

Dermatitis in hairdressers. Holness DL, et al. **Dermatol Clin** 1990 Jan;8(1):119–26

Contact allergy to Phacelia spp. (Hydrophyllaceae). Ippen H. **Dermatol Clin** 1990 Jan;8(1):67–71

Allergic contact dermatitis to colophony included in the formulation of flexible collodion BP, the vehicle of a salicylic and lactic acid wart paint. Lachapelle JM, et al. **Dermatol Clin** 1990 Jan;8(1):143–6

Occupational allergic contact dermatitis to airborne nitrofurazone. Lo JS, et al. **Dermatol Clin** 1990 Jan; 8(1):165–8

Allergic contact dermatitis to adhesive bandages. Norris P, et al. **Dermatol Clin** 1990 Jan;8(1):147–52

Contact dermatitis caused by intermediate products in the manufacture of clenbuterol, ranitidine base, and ranitidine hydrochloride. Romaguera C, et al. **Dermatol Clin** 1990 Jan;8(1):115–7

Caterpillar dermatitis. Rosen T. **Dermatol Clin** 1990 Apr; 8(2):245–52 (67 ref.)

Contact sensitivity to systemically administered drugs. Rudzki E. **Dermatol Clin** 1990 Jan;8(1):177–80

Nickel dermatitis in medical workers. Schubert HJ. **Dermatol Clin** 1990 Jan;8(1):45–7 (15 ref.)

Sensitization to povidone-iodine. van Ketel WG, et al. **Dermatol Clin** 1990 Jan;8(1):107–9

Studies on contact dermatitis in stomatological staff. Berova N, et al. **Dermatol Monatsschr** 1990;176(1):15–8

Contact dermatitis sparing the eruption of herpes zoster and its periphery. Katayama H, et al. **Dermatologica** 1990; 181(1):65–7

Acute reactions to coelenterates. Letot B, et al. **Dermatologica** 1990;180(4):224–7

Metal contact dermatitis: a common and potentially debilitating disease. Menné T, et al. **Endeavour** 1989; 13(3):117–22 (16 ref.)

Nickel allergy and orthodontic treatment. Staerkjaer L, et al. **Eur J Orthod** 1990 Aug;12(3):284–9

Allergic reactions to rubber condoms [letter] Turjanmaa K, et al. **Genitourin Med** 1989 Dec;65(6):402–3

Metal hypersensitivity in dentists: a patch test study. Shigeto N, et al. **Hiroshima J Med Sci** 1989 Dec;38(4):187–9

Contact dermatitis from a subclavian catheter. Guin JD, et al. **Int J Dermatol** 1990 Jan–Feb;29(1):50–1

Triethanolamine-induced allergic contact dermatitis over a tuberculoid leprosy lesion [letter] Srinivas CR, et al. **Int J Lepr Other Mycobact Dis** 1990 Jun;58(2):382–4

Sunscreening agent intolerance: contact and photocontact sensitization and contact urticaria. Dromgoole SH, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1068–78 (111 ref.)

Adverse dermatologic reactions to transdermal drug delivery systems. Hogan DJ, et al. **J Am Acad Dermatol** 1990 May; 22(5 Pt 1):811–4 (38 ref.)

Long-lasting contact urticaria from castor bean. Kanerva L, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):351–5

How to instruct patients sensitive to fragrances. Larsen WG. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 2):880–4 (21 ref.)

Tendency to irritation: sensitive skin. Maibach HI, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 2):833–5 (11 ref.)

Radioactive gold ring dermatitis. Miller RA, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):360–2

Cutaneous nickel sensitivity in Toronto, Canada. Nethercott JR, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):756–61 (30 ref.)

Oedemerid blister beetle dermatosis: a review. Nicholls DS, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):815–9 (21 ref.)

Contact urticaria and anaphylaxis to natural latex. Pecquet C, et al. **J Am Acad Dermatol** 1990 Apr;22(4):631–3

Darier's disease, familial benign chronic pemphigus (Hailey-Hailey disease) and contact hypersensitivity. Remitz A, et al. **J Am Acad Dermatol** 1990 Jan;22(1):134

Riehl's melanosis: pigmented contact dermatitis caused by fragrances. Serrano G, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 2):1057–60

Susceptibility to irritant dermatitis induced by sodium lauryl sulfate. Wilhelm KP, et al. **J Am Acad Dermatol** 1990 Jul; 23(1):122–4

Antigen-presenting cells in the induction of contact hypersensitivity in mice: evidence that Langerhans cells are sufficient but not required [letter; comment] Cruz PD Jr. **J Invest Dermatol** 1990 Mar;94(3):386–8 Comment on: J Invest Dermatol 1989 Oct;93(4):443–8.

Immunosuppression by factors released from UV-irradiated epidermal cells: selective effects on the generation of contact and delayed hypersensitivity after exposure to UVA or UVB radiation. Kim TY, et al. **J Invest Dermatol** 1990 Jan;94(1):26–32

Analysis of dose response of trinitrochlorobenzene contact

hypersensitivity induction in mice: pretreatment with cyclophosphamide reveals an optimal sensitizing dose. Sullivan S, et al. **J Invest Dermatol** 1990 May;94(5):711–6

Allergic contact dermatitis from glutaraldehyde exposure. Fowler JF Jr. **J Occup Med** 1989 Oct;31(10):852–3

Amalgam associated mercury accumulations in normal oral mucosa, oral mucosal lesions of lichen planus and contact lesions associated with amalgam. Bolewska J, et al. **J Oral Pathol Med** 1990 Jan;19(1):39–42

Soluble oil dermatitis: a review. Pryce DW, et al. **J Soc Occup Med** 1989 Autumn;39(3):93–8 (44 ref.)

From the Centers for Disease Control. Moth-associated dermatitis—Cozumel, Mexico. **JAMA** 1990 May 9; 263(18):2425, 2429

Erythematous reactions at intramuscular injection sites [letter] Shen K. **Lancet** 1990 Sep 15;336(8716):689–90

Chrysotherapy provoking exacerbation of contact hypersensitivity to nickel [letter] Wijnands MJ, et al. **Lancet** 1990 Apr 7;335(8693):867–8

Moth-associated dermatitis—Cozumel, Mexico [published erratum appears in MMWR 1990 Apr 13;39(14):233] **MMWR** 1990 Apr 6;39(13):219–20

Contact and photocontact allergy to psoralens. Möller H. **Photodermatol Photoimmunol Photomed** 1990 Feb;7(1):43–4

Yuletide dermatitis. Barkley A. **Practitioner** 1989 Dec 15; 233(1480):1625–8

Contact dermatitis to the sap of fig-tree. Munteanu M. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep;93(3):602

Repeated application of EMLA cream 5% for the alleviation of cannulation pain in haemodialysis. Wehle B, et al. **Scand J Urol Nephrol** 1989;23(4):299–302

A systematic search for structure–activity relationships of skin sensitizers. II. Para-phenylenediamines. Benezra C, et al. **Semin Dermatol** 1989 Jun;8(2):88–93

DALUK: the Swedish computer system for contact dermatitis. Bjorn E. **Semin Dermatol** 1989 Jun;8(2):97–8

The codex system. Drieghe J, et al. **Semin Dermatol** 1989 Jun;8(2):96

Systemic contact-type dermatitis due to drugs. Menné T, et al. **Semin Dermatol** 1989 Sep;8(3):144–8 (41 ref.)

INFODERM—a microcomputer database system with Finnish product files. Rantanen T. **Semin Dermatol** 1989 Jun;8(2):94–5

A review of the Buehler guinea pig skin sensitization test and its use in a risk assessment process for human skin sensitization. Robinson MK, et al. **Toxicology** 1990 Apr 17;61(2):91–107 (48 ref.)

Successful hand hygiene in hospital. Mäkela P. **Z Gesamte Hyg** 1990 Feb;36(2):80–1

[Allergic manifestations of nickel allergy in women with copper coils] Grinsted L. **Ugeskr Laeger** 1990 Jan 8; 152(2):111 (Eng. Abstr.) (Dan)

[Allergic manifestations caused by nickel hypersensitivity in women with a copper intrauterine device (letter)] Kaaber K. **Ugeskr Laeger** 1990 Mar 5;152(10):688 (Dan)

[Kathon CG—a new contact sensitizing preservative] Knudsen BB, et al. **Ugeskr Laeger** 1990 Mar 5;152(10):656–7 (Eng. Abstr.) (Dan)

[Petroleum burns—toxic contact dermatitis] Larsen J, et al. **Ugeskr Laeger** 1989 Dec 18;151(51):3490–1 (Eng. Abstr.) (Dan)

[Computers and contact dermatitis] Dooms-Goossens A. **Arch Belg** 1989;47(1–4):60–2 (Eng. Abstr.) (Dut)

[Contact allergy for Alstrumeria (inca lily)] de Groot AC, et al. **Ned Tijdschr Geneeskd** 1990 Jun 30;134(26):1261–4 (Eng. Abstr.) (Dut)

[Epoxy resin as a cause of contact allergic eczema] Geldof BA, et al. **Ned Tijdschr Geneeskd** 1989 Jul 29; 133(30):1505–9 (Eng. Abstr.) (Dut)

[Corticosteroid allergy] Lauerma AI, et al. **Duodecim** 1989; 105(20):1669–73 (14 ref.) (Fin)

[Systemic eczematous contact type dermatitis] Aquilina C, et al. **Ann Dermatol Venereol** 1989;116(10):753–65 (Fre)

[Immediate hypersensitivity to latex: a new problem. Future perspectives] Dry J, et al. **Bull Acad Natl Med** 1989 Oct; 173(7):913–7 (5 ref.) (Eng. Abstr.) (Fre)

[The brown-tail moth of Bombyx Euproctis chrysorrhoea L. (Lepidoptera) responsible for lepidopterism in France: biological interpretation] Lamy M, et al. **C R Acad Sci [III]** 1989;309(14):605–10 (Eng. Abstr.) (Fre)

[Contact urticaria with transition to protein contact dermatitis in a cook with atopic diathesis] Abeck D, et al. **Derm Beruf Umwelt** 1990 Jan–Feb;38(1):24–6 (Eng. Abstr.) (Ger)

[Allergic contact eczema to ninhydrin] Schlacke KH, et al. **Derm Beruf Umwelt** 1989 Sep–Oct;37(5):179–80 (Eng. Abstr.) (Ger)

[Pollen allergy as an occupational disease in gardeners] Schubert H, et al. **Dermatol Monatsschr** 1990; 176(2–3):97–104 (Eng. Abstr.) (Ger)

[Juvenile plantar dermatosis: when are epicutaneous tests indicated?] Pirkl S, et al. **Hautarzt** 1990 Jan;41(1):22–6 (Eng. Abstr.) (Ger)

[Endogenous eczema and occupation] Schubert H. **Z Arztl Fortbild (Jena)** 1990;84(3):89–92 (Ger)

[Skin irritating substances in plants] Martinetz D, et al. **Z Gesamte Hyg** 1989 Jul;35(7):386–90 (12 ref.) (Eng. Abstr.) (Ger)

[Comment on the article by Prof. H. Tronnier, "Requests of the dermatologist from cosmetics" (Z Hautkr 1988; 63: 983–5) (letter)] **Z Hautkr** 1990 Jan;65(1):77–8 (Ger)

[Contact allergies to CN and CS ("tear gas") in participants in demonstrations] Fuchs T, et al. **Z Hautkr** 1990 Mar; 65(3):288–92, 295 (Eng. Abstr.) (Ger)

[Contact urticaria caused by rubber gloves] Geier J, et al. **Z Hautkr** 1990 Mar;65(3):267–72 (Eng. Abstr.) (Ger)

[Geraniol contact allergy] Hausen BM, et al. **Z Hautkr** 1990 May;65(5):492–4 (Eng. Abstr.) (Ger)

[Copper sulfate allergy with special reference to internal exposure] Zabel M, et al. **Z Hautkr** 1990 May;65(5):481–2, 485–6 (Eng. Abstr.) (Ger)

[Nickel-induced allergic contact dermatitis: reactivation by oral administration of hapten] Bezze G, et al. **G Ital Dermatol Venereol** 1989 Jul–Aug;124(7–8):351–4 (Eng. Abstr.) (Ita)

[Dermatotoxicity caused by Chrysaora hysoscella. Presentation of a case] Kokelj F, et al. **G Ital Dermatol Venereol** 1989 Jun;124(6):297–8 (Eng. Abstr.) (Ita)

[Contact sensitization to thimerosal in healthy subjects] Seidenari S, et al. **G Ital Dermatol Venereol** 1989 Jul–Aug; 124(7–8):335–9 (Eng. Abstr.) (Ita)

[Studies on antigenicity and contact sensitivity of miporamicin] Nakano Y, et al. **Jpn J Antibiot** 1989 Nov; 42(11):2500–5 (Eng. Abstr.) (Jpn)

[Three cases of dry cleaning dermatitis] Aoki T, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Aug;99(9):1035–8 (Eng. Abstr.) (Jpn)

[Occupational skin diseases and hypersensitivity to metals, especially chromium, cobalt and nickel among construction workers] Kieć-Świerczyńska M. **Med Pr** 1989;40(4):265–8 (Pol)

[Occupational allergy in the production of drugs] Rembadel P, et al. **Pol Tyg Lek** 1990 Jan 22–29;45(4–5):82–4 (Eng. Abstr.) (Pol)

[Contact allergy caused by drug handling] Rudzki E, et al. **Przegl Dermatol** 1990 Jan–Feb;77(1):1–5 (Pol)

[Additional set of contact allergens] Rudzki E, et al. **Przegl Dermatol** 1989 Jan–Mar;76(1):28–32 (Eng. Abstr.) (Pol)

[Comparison of sensitization effects of isophthalic and terephthalic acid dichloranhydrides in experiments with guinea pigs and white rats] Dueva LA, et al. **Gig Tr Prof Zabol** 1989;(11):50–2 (Rus)

[Occupational dermatoses among workers in slag separation plants of the low-carbon ferrichrome industry] Podkin IuS, et al. **Gig Tr Prof Zabol** 1990;(1):20–3 (Eng. Abstr.) (Rus)

[Skin lesions caused by exposure to a pesticide norbormid] Tsyrkunov LP. **Gig Tr Prof Zabol** 1989;(8):46–7 (Eng. Abstr.) (Rus)

[Occupational phytodermatoses and their prevention] Selisskiĭ GD, et al. **Vestn Dermatol Venerol** 1989;(6):27–30 (Eng. Abstr.) (Rus)

GENETICS

HLA-A and -B antigens in IPPD-sensitive persons. Hegyi E, et al. **Contact Dermatitis** 1990 Apr;22(4):228–9

Effect of the H-2 and Igh complexes on the susceptibility to ultraviolet B-induced immunosuppression in murine contact sensitivity and contact photosensitivity. Satoh T, et al. **Photodermatol Photoimmunol Photomed** 1990 Apr; 7(2):73–6

IMMUNOLOGY

Immunology of contact dermatitis. Bos JD, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;151:84–7; discussion 106–10 (17 ref.)

The immunology of allergic contact dermatitis: the DNCB story. Friedmann PS. **Adv Dermatol** 1990; 5:175–95;discussion 196 (45 ref.)

Increased contact hypersensitivity response in mice by topical application of 1 alpha,25-dihydroxyvitamin D3 to elicitation site. Tani M, et al. **Arch Dermatol Res** 1989; 281(5):355–61

Primula obconica sensitivity and testing with primin. Apted JH. **Australas J Dermatol** 1988;29(3):161–2

Allergic contact dermatitis to Noogoora Burr and Bathurst Burr. Fischer G, et al. **Australas J Dermatol** 1988; 29(3):155–9

Contact dermatitis with negative patch tests: the additive effect of allergens in combination. McLelland J, et al. **Br J Dermatol** 1990 May;122(5):623–30

HLA-A, B, C and DR antigens in nickel contact sensitivity. Mozzanica N, et al. **Br J Dermatol** 1990 Mar;122(3):309–13

Dominance of memory over naive T cells in contact dermatitis is due to differential tissue immigration. Sterry W, et al. **Br J Dermatol** 1990 Jul;123(1):59–64

Oral administration of the contact sensitizer trinitrochlorobenzene: initial sensitization and subsequent appearance of a suppressor population. Gautam SC, et al. **Cell Immunol** 1990 Feb;125(2):437–48

Contact hypersensitivity in patients with chronic otitis externa. Smith IM, et al. **Clin Otolaryngol** 1990 Apr; 15(2):155–8

Allergic contact dermatitis. **Clin Rev Allergy** 1989 Winter; 7(4):347–453

The pathophysiology of allergic contact hypersensitivity. Belsito DV. **Clin Rev Allergy** 1989 Winter;7(4):347–79 (267 ref.)

Active sensitization to elecampane by patch testing with a crude plant extract. Aberer W, et al. **Contact Dermatitis** 1990 Jan;22(1):53–5

The role of contact allergy to aeroallergens in atopic dermatitis. de Groot AC, et al. **Contact Dermatitis** 1989 Oct;21(4):209–14 (21 ref.)

Contact allergy to Bronopol. Frosch PJ, et al. **Contact Dermatitis** 1990 Jan;22(1):24–6

Cross-reaction in allergic contact dermatitis from alpha-methylene-gamma-butyrolactones: importance of the cis or trans ring junction. Schaeffer M, et al. **Contact Dermatitis** 1990 Jan;22(1):32–6

Contact urticaria caused by rubber. Analysis of seven cases. Belsito DV. **Dermatol Clin** 1990 Jan;8(1):61–6 (20 ref.)

Molecular recognition in allergic contact dermatitis. The concept of double-headed haptens. Benezra C. **Dermatol Clin** 1990 Jan;8(1):13–6

Immune mechanisms in contact allergic dermatitis. Bergstresser PR. **Dermatol Clin** 1990 Jan;8(1):3–11 (71 ref.)

Batch variations. Calnan CD. **Dermatol Clin** 1990 Jan; 8(1):23–5

Contact and systemic contact-type dermatitis to spices. Dooms-Goossens A, et al. **Dermatol Clin** 1990 Jan; 8(1):89–93

Long-lasting contact urticaria. Type I and type IV allergy from castor bean and a hypothesis of systemic IgE-mediated allergic dermatitis. Kanerva L, et al. **Dermatol Clin** 1990 Jan;8(1):181–8

The spectrum of contact urticaria. Wheals, erythema, and pruritus. Kligman AM. **Dermatol Clin** 1990 Jan;8(1):57–60

Aspects of the immune response to contact allergens: opportunities for the development and modification of predictive test methods. Kimber I. **Food Chem Toxicol** 1989 Nov;27(11):755–62 (111 ref.)

Antigen-specific inhibition of IL-2 and IL-3 production in contact sensitivity to TNP. Marcinkiewicz J, et al. **Immunology** 1989 Oct;68(2):185–9

Assessment of the functional activity of antigen-bearing dendritic cells isolated from the lymph nodes of contact-sensitized mice. Jones DA, et al. **Int Arch Allergy Appl Immunol** 1989;90(3):230–6

Atopic dermatitis, contact hypersensitivity, and urticaria. Dockhorn RJ. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 2):1051–4

The immunologic basis of patch testing. Belsito DV. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 2):822–9 (98 ref.)

Identification of the molecular target for the suppression of contact hypersensitivity by ultraviolet radiation. Applegate LA, et al. **J Exp Med** 1989 Oct 1;170(4):1117–31

Production of hapten-specific T cell hybridomas and their use to study the effect of ultraviolet B irradiation on the development of contact hypersensitivity. Bigby M, et al. **J Immunol** 1989 Dec 15;143(12):3867–72

Langerhans cells that migrate to skin after intravenous infusion regulate the induction of contact hypersensitivity. Cruz PD Jr, et al. **J Immunol** 1990 Apr 1;144(7):2486–92

Roles of CD4+ and CD8+ T cells in murine contact sensitivity revealed by in vivo monoclonal antibody depletion. Gocinski BL, et al. **J Immunol** 1990 Jun 1; 144(11):4121–8

Cimetidine-induced augmentation of allergic contact hypersensitivity reactions in mice. Belsito DV, et al. **J Invest Dermatol** 1990 Apr;94(4):441–5

Ultraviolet radiation-induced suppression of contact hypersensitivity in relation to Padimate O and oxybenzone [letter; comment] Edwards EK Jr, et al. **J Invest Dermatol** 1989 Nov;93(5):708 Comment on: J Invest Dermatol 1989 Mar;92(3):337–41.

Tachykinins and calcitonin gene-related peptide in oxazolone-induced allergic contact dermatitis in mice. Ek L, et al. **J Invest Dermatol** 1990 Jun;94(6):761–3

The use of human T-lymphocyte clones to study T-cell function in allergic contact dermatitis to urushiol. Kalish RS. **J Invest Dermatol** 1990 Jun;94(6 Suppl):108S–111S (45 ref.)

T lymphocytes, Langerhans cells and HLA-DR expression on keratinocytes in oral lesions associated with amalgam restorations. Bolewska J, et al. **J Oral Pathol Med** 1989 Oct;18(9):525–8

Calgranulin expression in inflammatory dermatoses. Kelly SE, et al. **J Pathol** 1989 Sep;159(1):17–21

The role of neutrophils in tissue localized cell-mediated immunologic responses: I. The intensity of contact-type and delayed-type hypersensitivity responses may be influenced by the extent of extracellular matrix degradation by neutrophil proteases. Lee DG, et al. **Reg Immunol** 1988 Nov–Dec;1(3):149–62

Dendritic cells in contact sensitivity. Knight SC. **Res Immunol** 1989 Nov–Dec;140(9):907–10; discussion 918–26 (29 ref.)

Antigen-presenting activity of non-Langerhans epidermal cells in contact hypersensitivity reactions. Baadsgaard O, et al. **Scand J Immunol** 1990 Sep;32(3):217–24

Use of an optimized in vitro lymphocyte blastogenesis assay to detect contact sensitivity to nickel sulfate in mice. Robinson MK, et al. **Toxicol Appl Pharmacol** 1990 Jun 1; 104(1):106–16

[Allergy to latex gloves. A cause of surgical shock] Parat S, et al. **Arch Fr Pediatr** 1990 Feb;47(2):129–30 (Eng. Abstr.) (Fre)

[Antigen presenting cells and T lymphocytes in the induction phase of contact hypersensitivity] Morita H, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Sep;99(10):1075–84 (Eng. Abstr.) (Jpn)

[Cosmetic dermatitis. Its relationship with positive patch test results, clinical features and atopy] Matsukubo Y. **Nippon Ika Daigaku Zasshi** 1990 Jun;57(3):276–84 (Eng. Abstr.) **(Jpn)**

[The immune and nonspecific protective reactions of the skin in patients with allergic dermatoses of chemical etiology] Alchangian LV, et al. **Vestn Dermatol Venerol** 1989; (10):51–5 (Eng. Abstr.) **(Rus)**

[Clinico–immunologic characteristics and prevention of occupational allergic dermatoses due to molybdenum exposure] Dueva LA, et al. **Vestn Dermatol Venerol** 1989; (10):47–50 (Eng. Abstr.) **(Rus)**

METABOLISM

A patient with hypocortisolism and Cushing's syndrome–like manifestations: cortisol hyperreactive syndrome. Iida S, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):729–37

PATHOLOGY

L3T4+ and Lyt-2+ cell-surface antigens as indicators of an allergic contact hypersensitivity response. Stern ML, et al. **Arch Dermatol Res** 1990;282(3):198–202

Outline features for chemical induction of delayed hypersensitivity. Caldas LQ, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3–4):339–52

Histological examination of immediate and delayed contact allergy provoked by mercuric chloride. Temesvári E, et al. **Contact Dermatitis** 1989 Oct;21(4):271–2

Morphological and immunohistochemical study of immediate contact dermatitis of the hands due to foods. Tosti A, et al. **Contact Dermatitis** 1990 Feb;22(2):81–5

Histologic study of delayed reactions to coelenterates. Piérard GE, et al. **J Am Acad Dermatol** 1990 Apr; 22(4):599–601

Cutaneous reactions caused by experimental exposure to jellyfish, Carybdea rastonii. Ohtaki N, et al. **J Dermatol** 1990 Feb;17(2):108–14

Epidermal damage induced by irritants in man: a light and electron microscopic study. Willis CM, et al. **J Invest Dermatol** 1989 Nov;93(5):695–9

Time course of contact hypersensitivity to DNFB and histologic findings in mice. Cho GY, et al. **J Korean Med Sci** 1986 Sep;1(1):31–6

[Allergic reaction form of middle ear mucosa. An animal experiment study] Enzmann H, et al. **Laryngorhinootologie** 1990 Apr;69(4):208–12 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Increased stratum corneum turnover induced by subclinical irritant dermatitis. Wilhelm KP, et al. **Br J Dermatol** 1990 Jun;122(6):793–8

Guidelines for transepidermal water loss (TEWL) measurement. A report from the Standardization Group of the European Society of Contact Dermatitis. Pinnagoda J, et al. **Contact Dermatitis** 1990 Mar;22(3):164–78

Value of the cutaneous basophil hypersensitivity (CBH) response for distinguishing weak contact sensitization from irritation reactions in the guinea pig. Robinson MK, et al. **J Invest Dermatol** 1990 May;94(5):636–43

Involvement of arachidonate-dependent lipid mediators and platelet-activating factor in experimental murine contact dermatitis. Csatò M, et al. **Skin Pharmacol** 1988;1(2):100–5

PREVENTION & CONTROL

Suppression of the DTH reaction in mice by means of moxibustion at electro–permeable points. Tohya K, et al. **Am J Chin Med** 1989;17(3–4):139–44

The application of test data in the selection and use of gloves against chemicals. Leinster P, et al. **Ann Occup Hyg** 1990 Feb;34(1):85–90

Prevention of dermatitis in the printing and lithographing industries. Samitz MH, et al. **Arch Dermatol** 1966 Sep; 94(3):307–9

Effect of BN 52021, a platelet activating factor antagonist, on dithranol–induced inflammation. Kemény L, et al. **Br J Dermatol** 1990 Apr;122(4):539–44

Effects of alprazolam on platelet activating factor–induced wealing [letter] Ormerod AD, et al. **Br J Dermatol** 1989 Sep;121(3):411–2

Objective assessment of topical corticosteroids and non–steroidal anti–inflammatory drugs in methyl–nicotinate–induced skin inflammation. Duteil L, et al. **Clin Exp Dermatol** 1990 May;15(3):195–9

Condom advice in rubber urticaria [letter; comment] Fisher AA. **Contact Dermatitis** 1989 Nov;21(5):354 Comment on: Contact Dermatitis 1989 May;20(5):360–4.

Duration of inhibition of non–immunologic immediate contact reactions by acetylsalicylic acid. Kujala T, et al. **Contact Dermatitis** 1989 Jul;21(1):60–1

Allergen control. An indispensable treatment for allergic contact dermatitis. Nakayama H, et al. **Dermatol Clin** 1990 Jan;8(1):197–204 (16 ref.)

Effect of ultraviolet B on nonimmunologic contact reactions induced by dimethyl sulphoxide, phenol and sodium lauryl sulphate. Larmi E, et al. **Photodermatol** 1989 Dec; 6(6):258–62

[Dermatologic work capacity evaluations in prevention of occupational diseases. A study of beginning hairdresser students] Lüngle U. **Wien Klin Wochenschr** 1990 Mar 16; 102(6):175–6 **(Ger)**

[Comment on "References for prevention of formaldehyde–induced occupational dermatoses in the public health and social field" and development of the morbidity of formaldehyde contact eczema in East Germany since inception of the recommendations] Kramer A, et al. **Z Gesamte Hyg** 1989 Jun;35(6):336–43 (79 ref.) **(Ger)**

[Compatibility of cosmetics and toiletries] Motitschke L. **Z Hautkr** 1989 Dec 15;64(12):1111–7 (Eng. Abstr.) **(Ger)**

[Detection of the presence of formaldehyde in textiles by using color tests with acetylacetone and chromotropic acid] Styczyński P. **Przegl Dermatol** 1989 Mar–Apr;76(2):123–6 (Eng. Abstr.) **(Pol)**

RADIOTHERAPY

The duration of Grenz ray–induced suppression of allergic contact dermatitis and its correlation with the density of Langerhans cells in human epidermis. Ek L, et al. **Clin Exp Dermatol** 1989 May;14(3):206–9

VETERINARY

Histopathological changes in canine allergic contact dermatitis patch test reactions. A study on spontaneously hypersensitive dogs. Thomsen MK, et al. **Acta Vet Scand** 1989;30(4):379–84

DERMATITIS, CONTACT, PHOTOSENSITIVE see **PHOTOSENSITIVITY DISORDERS**

DERMATITIS, CONTAGIOUS PUSTULAR see **ECTHYMA, CONTAGIOUS**

DERMATITIS EXFOLIATIVA

CHEMICALLY INDUCED

Exfoliative dermatitis due to nifedipine. Reynolds NJ, et al. **Br J Dermatol** 1989 Sep;121(3):401–4

Vancomycin–associated exfoliative dermatitis. Forrence EA, et al. **DICP** 1990 Apr;24(4):369–71

A suspected case of trimethoprim/sulfonamide–induced localized exfoliation. Ponte CD, et al. **DICP** 1990 Feb; 24(2):140–2

ETHNOLOGY

Recurrent hypothermia in a West Indian [letter] Monk B. **Br J Dermatol** 1989 Sep;121(3):412

DERMATITIS HERPETIFORMIS

Dermatitis herpetiformis—what is it? Beutner EH, et al. **Int J Dermatol** 1990 May;29(4):267–9 (18 ref.)

[Dermatitis herpetiformis] Teillac D. **Ann Dermatol Venereol** 1989;116(8):571–4 **(Fre)**

COMPLICATIONS

Prevalence of thyroid abnormalities in patients with dermatitis herpetiformis and in control subjects with HLA–B8/–DR3. Gaspari AA, et al. **Am J Med** 1990 Feb; 88(2):145–50

Recurrent genital ulceration: a case of dermatitis herpetiformis. Sivakumar K, et al. **Genitourin Med** 1990 Aug;66(4):270–1

Dermatitis herpetiformis associated with myasthenia gravis [letter] McFadden JP, et al. **Int J Dermatol** 1989 Nov; 28(9):619

Dermatitis herpetiformis and AIDS–related complex. Hasson A, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1117–9

Laryngeal involvement in dermatitis herpetiformis [letter; comment] McFadden JP, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):325–6 Comment on: J Am Acad Dermatol 1989 Apr;20(4):690–1.

Bullous pemphigoid and dermatitis herpetiformis: mixed bullous disease or coexistence of two separate entities? Sander HM, et al. **J Cutan Pathol** 1989 Dec;16(6):370–4

Gastric histology and function tests in Italian patients with dermatitis herpetiformis. Primignani M, et al. **Scand J Gastroenterol** 1990 Apr;25(4):357–62

[Palmoplantar purpura in Duhring's herpetiform dermatitis] Rütten A, et al. **Hautarzt** 1989 Oct;40(10):640–3 (11 ref.) (Eng. Abstr.) **(Ger)**

DIAGNOSIS

[Determination of IgA anti–endomysium antibodies in different tissue substrates] Pavlovsky F, et al. **Dermatol Monatsschr** 1990;176(4):239–43 **(Ger)**

[Pemphigus herpetiformis—the value of simple diagnostic measures] Buslau M, et al. **Z Hautkr** 1989 Sep 15; 64(9):729–30, 735–6 (Eng. Abstr.) **(Ger)**

[Herpes in pregnant women] Mamin NI, et al. **Vestn Dermatol Venerol** 1990;(3):72–4 (Eng. Abstr.) **(Rus)**

[Pemphigus herpetiformis] Mutevelić–Arslanagić N, et al. **Vestn Dermatol Venerol** 1989;(10):72–4 (Eng. Abstr.) **(Rus)**

[The connection of Hebra's herpetiform impetigo to pustular psoriasis] Verbenko EV, et al. **Vestn Dermatol Venerol** 1990;(1):63–5 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

The incidence of agranulocytosis during treatment of dermatitis herpetiformis with dapsone as reported in Sweden, 1972 through 1988. Hörnsten P, et al. **Arch Dermatol** 1990 Jul;126(7):919–22

Sulphamethoxypyridazine for dermatitis herpetiformis, linear IgA disease and cicatricial pemphigoid. McFadden JP, et al. **Br J Dermatol** 1989 Dec;121(6):759–62

Sulfasalazine in dermatitis herpetiformis [letter; comment] Goldstein BG, et al. **J Am Acad Dermatol** 1990 Apr; 22(4):697 Comment on: J Am Acad Dermatol 1989 May;20(5 Pt 1):797–800.

Sulfapyridine and sulfones decrease glycosaminoglycans viscosity in dermatitis herpetiformis, ulcerative colitis, and pyoderma gangrenosum. Stone OJ. **Med Hypotheses** 1990 Feb;31(2):99–103 (46 ref.)

ETIOLOGY

[Dermatitis herpetiformis in a patient with human immunodeficiency virus infection (letter)] Conri C, et al. **Presse Med** 1990 Jun 9;19(23):1105 **(Fre)**

IMMUNOLOGY

IgA immunoreactive deposits collocal with fibrillin immunoreactive fibers in dermatitis herpetiformis skin. Dahlbäck K, et al. **Acta Derm Venereol (Stockh)** 1990; 70(3):194–8

A simple method for elution of IgA deposits from the skin of patients with dermatitis herpetiformis. Jones P, et al. **Arch Dermatol Res** 1989;281(6):406–10

Recurrent pericarditis and dermatitis herpetiformis. Evidence for immune complex deposition in the pericardium. Afrasiabi R, et al. **Chest** 1990 Apr;97(4):1006–7

Two sisters with impetigo herpetiformis. Tada J, et al. **Clin Exp Dermatol** 1989 Jan;14(1):82–4

Comparison of IgA–class reticulin and endomysium antibodies in coeliac disease and dermatitis herpetiformis [see comments] Hällström O. **Gut** 1989 Sep;30(9):1225–32 Comment in: Gut 1990 May;31(5):585.

Dermatitis herpetiformis in two American blacks: HLA type and clinical characteristics. Hall RP, et al. **J Am Acad Dermatol** 1990 Mar;22(3):436–9

IgA antiendomysial antibodies in dermatitis herpetiformis. Peters MS, et al. **J Am Acad Dermatol** 1989 Dec; 21(6):1225–31 (33 ref.)

Isotype distribution and serial levels of antibodies reactive with dietary protein antigens in dermatitis herpetiformis. Barnes RM, et al. **J Clin Lab Immunol** 1989 Oct;30(2):87–91

An HLA class II region restriction fragment length polymorphism (RFLP) in patients with dermatitis herpetiformis: association with HLA–DP phenotype. Hall RP, et al. **J Invest Dermatol** 1990 Aug;95(2):172–7

Intestinal humoral immunity in dermatitis herpetiformis [letter] Fry L, et al. **Lancet** 1990 Aug 11;336(8711):378–9

Similarities in intestinal humoral immunity in dermatitis herpetiformis without enteropathy and in coeliac disease. O'Mahony S, et al. **Lancet** 1990 Jun 23;335(8704):1487–90

[Deposits with anti–globulin activity in dermatitis herpetiformis] L'Abbate A, et al. **G Ital Dermatol Venereol** 1989 Mar;124(3):67–70 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Bizarre widespread vesicular eruption. Dermatitis herpetiformis (DH). Giblin WJ, et al. **Arch Dermatol** 1990 Apr;126(4):527–8, 530–1

PHYSIOPATHOLOGY

Perimenstrual nonvesicular dermatitis herpetiformis. Leitao EA, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 2):331–4

THERAPY

Three blistering diseases. Why proper management is critical. Wooldridge WE. **Postgrad Med** 1990 Sep 1;88(3):103–4, 106

DERMATITIS MEDICAMENTOSA

Skin reactions to hexylene glycol. Kinnunen T, et al. **Contact Dermatitis** 1989 Sep;21(3):154–8

Gonadotrophins, livedo reticularis, and strokes [letter] Ellie E, et al. **Stroke** 1990 Sep;21(9):1377–8

[Cutaneous allergy during idiopathic thrombopenic purpura treated with danazol (letter)] Taillan B, et al. **Presse Med** 1990 Apr 14;19(15):721–2 **(Fre)**

COMPLICATIONS

Cutaneous drug reactions in porphyrias. Targovnik SE, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):110–7 (67 ref.)

DIAGNOSIS

Diagnosing cutaneous adverse reactions to drugs. Shear NH. **Arch Dermatol** 1990 Jan;126(1):94–7

A rash decision. Kerr C. **Aust Fam Physician** 1989 Dec; 18(12):1539

Tetrazepam allergy detected by patch test. Camarasa JG, et al. **Contact Dermatitis** 1990 Apr;22(4):246

Carbamazepine–induced eruption histologically mimicking mycosis fungoides. Welykyj S, et al. **J Cutan Pathol** 1990

Apr;17(2):111–6
Patch testing in drug eruptions. Bruynzeel DP, et al. **Semin Dermatol** 1989 Sep;8(3):196–203 (65 ref.)
Bayesian differential diagnosis of a cutaneous reaction associated with the administration of sulfonamides. Ghajar BM, et al. **Semin Dermatol** 1989 Sep;8(3):213–8
Oral provocation: limitations. Girard M. **Semin Dermatol** 1989 Sep;8(3):192–5 (8 ref.)
Oral provocation: uses. Kauppinen K, et al. **Semin Dermatol** 1989 Sep;8(3):187–91 (12 ref.)
An approach to the evaluation and documentation of adverse drug reaction. Goh CL. **Singapore Med J** 1989 Jun; 30(3):285–9 (13 ref.)
[Mononucleosis syndrome with hypersensitivity hepatitis following carbamazepine administration] Hintsche–Kilger BB, et al. **Z Arztl Fortbild (Jena)** 1990;84(11):551–3 **(Ger)**
[The clinical picture and diagnosis of allergic drug exanthemas] Pambor M. **Z Arztl Fortbild (Jena)** 1989; 83(16):827–8 (0 ref.) **(Ger)**
[Photodiagnosis: the modified intradermal test in comparison with other procedures for the detection of phototoxic and photo–allergic drug reactions] Schauder S. **Z Hautkr** 1990 Mar;65(3):247–8, 251–2 (11 ref.) (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Pharmacological studies on dithranol–induced irritative dermatitis in mice. Kemény L, et al. **Arch Dermatol Res** 1989;281(5):362–5
The effect of triethanolamine application on anthralin–induced inflammation and therapeutic effect in psoriasis. Ramsay B, et al. **J Am Acad Dermatol** 1990 Jul; 23(1):73–6

ENZYMOLOGY

[Pharmacogenetic aspects of cutaneous drug reactions] Merk H. **Z Hautkr** 1990 Mar;65(3):217–20 (45 ref.) **(Ger)**

EPIDEMIOLOGY

Zidovudine with probenecid [letter] Duckworth AS, et al. **Lancet** 1990 Aug 18;336(8712):441

ETIOLOGY

Generalized pustular drug rash induced by hydroxychloroquine. Lotem M, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):250–1
Adverse drug reactions: reporting and evaluating cutaneous reactions. Stern RS, et al. **Adv Dermatol** 1987;2:3–17 (39 ref.)
Hypersensitivity to mercuric fluorescein compounds. Barranco Sanz P, et al. **Allergol Immunopathol (Madr)** 1989 Jul–Aug;17(4):219–22
Nonpigmenting fixed drug eruption after anesthesia. Desmeules H. **Anesth Analg** 1990 Feb;70(2):216–7
Tamoxifen and purpuric vasculitis [letter] Drago F, et al. **Ann Intern Med** 1990 Jun 15;112(12):965–6
Flurbiprofen and cutaneous vasculitis [letter] Wei N. **Ann Intern Med** 1990 Apr 1;112(7):550–1
Association between gold induced skin rash and remission in patients with rheumatoid arthritis [see comments] Caspi D, et al. **Ann Rheum Dis** 1989 Sep;48(9):730–2 Comment in: Ann Rheum Dis 1990 Apr;49(4):271.
Association between gold induced skin rash and remission in patients with rheumatoid arthritis [letter; comment] Fremont–Smith P, et al. **Ann Rheum Dis** 1990 Apr;49(4):271 Comment on: Ann Rheum Dis 1989 Sep;48(9):730–2.
Retin–A and wax epilation [letter] Goldberg NS, et al. **Arch Dermatol** 1989 Dec;125(12):1717
Toxic response to topical fluorouracil in two rheumatoid arthritis patients receiving low–dose, weekly methotrexate [letter] Blackburn WD Jr, et al. **Arthritis Rheum** 1990 Feb; 33(2):303–4
Rash and pulmonary eosinophilia associated with fenbufen. Burton GH. **BMJ** 1990 Jan 13;300(6717):82–3
Erythromycin rash in glandular fever. Pendleton N, et al. **Br J Clin Pract** 1989 Dec;43(12):464–5
Dermatitis due to intravesical mitomycin C: a delayed–type hypersensitivity reaction? Colver GB, et al. **Br J Dermatol** 1990 Feb;122(2):217–24
A study of persistent photosensitivity as a sequel of the prior administration of the drug benoxaprofen. Frain–Bell W. **Br J Dermatol** 1989 Nov;121(5):551–62
Thallium poisoning: a dermatological perspective. Heyl T, et al. **Br J Dermatol** 1989 Dec;121(6):787–91
Hand erythema due to infusion of sympathomimetics [letter] Morin LR, et al. **Br J Dermatol** 1990 Jan;122(1):116–7
Blistering, erosions and scarring in a patient on etretinate. Ramsay B, et al. **Br J Dermatol** 1989 Sep;121(3):397–400
Exfoliative dermatitis due to nifedipine. Reynolds NJ, et al. **Br J Dermatol** 1989 Sep;121(3):401–4
Leucocytoclastic vasculitis during GM–CSF therapy. Kluin–Nelemans JC, et al. **Br J Haematol** 1989 Nov; 73(3):419–20
Unexpected drug reactions. **Clin Dermatol** 1986 Jan–Mar; 4(1):1–193
Adverse effects of corticosteroids: I. Topical and intralesional. Coskey RJ. **Clin Dermatol** 1986 Jan–Mar; 4(1):155–60 (77 ref.)
Systemic contact–type dermatitis due to drugs. Fisher AA. **Clin Dermatol** 1986 Jan–Mar;4(1):58–69 (62 ref.)
Erythema multiforme–like eruptions associated with etretinate therapy. David M, et al. **Clin Exp Dermatol** 1989 May;14(3):230–2
Neutrophilic eccrine hidradenitis—a report of two additional cases. Fernández Cogolludo E, et al. **Clin Exp Dermatol** 1989 Sep;14(5):341–6 (5 ref.)
A localized, recurrent pustular eruption following amoxycillin administration. Shuttleworth D. **Clin Exp Dermatol** 1989 Sep;14(5):367–8
Iododerma and acute respiratory distress with leucocytoclastic vasculitis following the intravenous injection of contrast medium. Vaillant L, et al. **Clin Exp Dermatol** 1990 May;15(3):232–3
Allergy to ethyl chloride does occur, and might frequently be misdiagnosed. Aberer W, et al. **Contact Dermatitis** 1989 Nov;21(5):352–3
Allergic contact dermatitis from fluocortin butyl. Aguirre Martinez–Falero A, et al. **Contact Dermatitis** 1990 Apr; 22(4):241–2
Allergic contact dermatitis from nicotinic acid esters. Audicana M, et al. **Contact Dermatitis** 1990 Jan;22(1):60–1
Allergic contact dermatitis from Cerumenex in a child. Balato N, et al. **Contact Dermatitis** 1989 Nov;21(5):348–9
Short induction phase of contact allergy to tixocortol pivalate in a nasal spray. Bircher AJ. **Contact Dermatitis** 1990 Apr; 22(4):237–8
Allergic reactions to topical desoxymethasone and oral triamcinolone. Brambilla L, et al. **Contact Dermatitis** 1989 Oct;21(4):272–4
Allergic contact dermatitis from transdermal nitroglycerin. Carmichael AJ, et al. **Contact Dermatitis** 1989 Aug; 21(2):113–4
Systemic contact dermatitis due to parabens. Carradori S, et al. **Contact Dermatitis** 1990 Apr;22(4):238–9
Contact dermatitis from dexchlorpheniramine. Cusano F, et al. **Contact Dermatitis** 1989 Nov;21(5):340
Contact dermatitis from Nitroderm. Di Landro A, et al. **Contact Dermatitis** 1989 Aug;21(2):115–6
Propylene glycol allergy from ketoconazole cream. Eun HC, et al. **Contact Dermatitis** 1989 Oct;21(4):274–5
Allergic dermatitis from systemic treatment with corticosteroids. Fernández de Corres L, et al. **Contact Dermatitis** 1990 Feb;22(2):104–6
Contact dermatitis due to diisopropanolamine. Fujimoto K, et al. **Contact Dermatitis** 1989 Jul;21(1):56
Hypersensitivity to ketoconazole preparations: study of 4 cases. Garcia–Bravo B, et al. **Contact Dermatitis** 1989 Nov; 21(5):346–8
A positive patch test in a pyrazinamide drug eruption. Goday J, et al. **Contact Dermatitis** 1990 Mar;22(3):181–2
Local bullous reaction to topical mechlorethamine (mustine). Goday JJ, et al. **Contact Dermatitis** 1990 May;22(5):306–7
Compound allergy to Spectraban 15 lotion and Zovirax cream. Goh CL. **Contact Dermatitis** 1990 Jan;22(1):61–2
Contact sensitivity to topical antimicrobials (I). Epidemiology in Singapore. Goh CL. **Contact Dermatitis** 1989 Jul;21(1):46–8
Allergic contact dermatitis due to amcinonide. Hayakawa R, et al. **Contact Dermatitis** 1990 Jul;23(1):49–50
Contact dermatitis from topical imidazole antifungals: 15 new cases. Jelen G, et al. **Contact Dermatitis** 1989 Jul;21(1):6–11
Allergic contact dermatitis from budesonide. Jerez J, et al. **Contact Dermatitis** 1990 Apr;22(4):231–2
Contact dermatitis from tioconazole. Jones SK, et al. **Contact Dermatitis** 1990 Feb;22(2):122–3
Allergic contact dermatitis from a vasoconstrictor cream. Landa N, et al. **Contact Dermatitis** 1990 May;22(5):290–1
Contact allergy to ketoprofen. Lanzarini M, et al. **Contact Dermatitis** 1989 Jul;21(1):51
Allergic contact dermatitis from tobramycin. Menéndez Ramos F, et al. **Contact Dermatitis** 1990 May;22(5):305–6
Allergic dermatitis from parenteral vitamin K. Pigatto PD, et al. **Contact Dermatitis** 1990 May;22(5):307–8
Erythroderma due to ribostamycin. Puig LL, et al. **Contact Dermatitis** 1989 Aug;21(2):79–82
Allergic contact dermatitis from chlorhexidine diacetate in a skin swab. Reynolds NJ, et al. **Contact Dermatitis** 1990 Feb;22(2):103–4
Allergic contact dermatitis from topical corticosteroids. Rivara G, et al. **Contact Dermatitis** 1989 Aug;21(2):83–91 (65 ref.)
Allergic contact dermatitis from idoxuridine. Senff H, et al. **Contact Dermatitis** 1990 Jul;23(1):43–5
Allergic contact dermatitis from epsilon–aminocaproic acid. Shono M. **Contact Dermatitis** 1989 Aug;21(2):106–7
Contact dermatitis due to chlorpheniramine maleate in eyedrops. Tosti A, et al. **Contact Dermatitis** 1990 Jan; 22(1):55
Tiaprofenic acid photodermatitis. Valsecchi R, et al. **Contact Dermatitis** 1989 Nov;21(5):345–6
Contact dermatitis from ibuproxam. A case with cross–reactivity with ketoprofen. Valsecchi R, et al. **Contact Dermatitis** 1990 Jan;22(1):51
Contact urticaria from chlorhexidine. Wong WK, et al. **Contact Dermatitis** 1990 Jan;22(1):52
Drug–induced mycosis fungoides–like lesions. Souteyrand P, et al. **Curr Probl Dermatol** 1990;19:176–82 (22 ref.)
Use of glycerin in topical minoxidil solutions for patients allergic to propylene glycol. Fisher AA. **Cutis** 1990 Feb; 45(2):81–2
Unique reactions of scrotal skin to topical agents. Fisher AA. **Cutis** 1989 Dec;44(6):445–7 (6 ref.)
Fixed drug eruptions occurring on the male genitals. Gaffoor PM, et al. **Cutis** 1990 Apr;45(4):242–4
Inframammary, intertriginous, and decubital erosions due to etretinate. Shelley ED, et al. **Cutis** 1990 Feb;45(2):111–3
Diltiazem associated erythema multiforme [letter] Berbis P, et al. **Dermatologica** 1989;179(2):90
Fixed drug eruption induced by griseofulvin [letter] Boudghene–Stambouli O, et al. **Dermatologica** 1989; 179(2):92–3
'Flagellate' erythema from bleomycin. With histopathological findings suggestive of inflammatory oncotaxis. Cortina P, et al. **Dermatologica** 1990;180(2):106–9
Skin necrosis after injection of aminosides. Arthus reaction, local toxicity, thrombotic process or pathergy? Grob JJ, et al. **Dermatologica** 1990;180(4):258–62
Fixed drug eruption due to tinidazole with cross–reactivity with metronidazole [letter] Kanwar AJ, et al. **Dermatologica** 1990;180(4):277
Erythema multiforme–like eruptions: a rare side effect of topical immunotherapy with diphenylcyclopropenone. Perret CM, et al. **Dermatologica** 1990;180(1):5–7
Human cutaneous response to a mixed surfactant system: role of solution phenomena in controlling surfactant irritation. Rhein LD, et al. **Dermatologica** 1990;180(1):18–23
Lichen planus induced by flunarizine. Suys E, et al. **Dermatologica** 1990;181(1):71–2
Reticulate pigmentation due to bleomycin: light– and electron–microscopic studies. Wright AL, et al. **Dermatologica** 1990;180(4):255–7
Clinical features and management of severe dermatological reactions to drugs. Raviglione MC, et al. **Drug Saf** 1990 Jan–Feb;5(1):39–64 (151 ref.)
Fixed drug eruption due to foscarnet. Connolly GM, et al. **Genitourin Med** 1990 Apr;66(2):97–8
An atypical hypersensitivity reaction. Ebeid MR, et al. **Hosp Pract [Off]** 1989 Nov 15;24(11):57, 60–2
Making a rash diagnosis: amoxicillin therapy in infectious mononucleosis. Pauszek ME. **Indiana Med** 1990 May; 83(5):330–1
Cumulative irritant dermatitis and abnormal epidermal plasminogen activator activity: what connection? [letter] Lotti T, et al. **Int J Dermatol** 1989 Oct;28(8):550–1
Circumoral dermatitis and cheilitis caused by tartar control dentifrices. Beacham BE, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1029–32
Transient, nonpigmenting fixed drug eruption caused by radiopaque contrast media. Benson PM, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):379–81
2,3,7,8–tetrachlorodibenzo–p–dioxin–induced porphyria cutanea tarda among pediatric patients [letter; comment] Boyd AS, et al. **J Am Acad Dermatol** 1989 Dec; 21(6):1320–1 Comment on: J Am Acad Dermatol 1988 Nov;19(5 Pt 1):812–9.
Lichenoid drug eruption from chlorpropamide and tolazamide. Franz CB, et al. **J Am Acad Dermatol** 1990 Jan;22(1):128–9
Dermatologic complications associated with administration of 2',3'–dideoxycytidine in patients with human immunodeficiency virus infection. McNeely MC, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1213–7
Captopril and alopecia: a case report and review of known cutaneous reactions in captopril use. Motel PJ. **J Am Acad Dermatol** 1990 Jul;23(1):124–5 (4 ref.)
Drug–induced, photosensitive, erythema multiforme–like eruption: possible role for cell adhesion molecules in a flare induced by Rhus dermatitis. Shiohara T, et al. **J Am Acad Dermatol** 1990 Apr;22(4):647–50
Vegetating iododerma with underlying systemic diseases: report of three cases. Soria C, et al. **J Am Acad Dermatol** 1990 Mar;22(3):418–22
Fixed drug eruption caused by piroxicam. Stubb S, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1111–2
Nonpigmenting fixed drug reaction to piroxicam. Valsecchi R, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1300
Purpuric contact dermatitis to benzoyl peroxide. van Joost T, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 2):359–61
Prednisolone purpura. Singhvi GR, et al. **J Assoc Physicians India** 1989 Aug;37(8):541–2
Erythroderma with generalized lymphadenopathy induced by phenytoin. Danno K, et al. **J Dermatol** 1989 Oct; 16(5):392–6
Generalized rash induced by sulfhydryl drug in guinea pigs—a comparative study on it with cephalothin–induced rash in guinea pigs. Kitamura K, et al. **J Dermatol** 1990 Mar;17(3):168–75
Tiopronin–induced lichenoid eruption in a patient with liver disease and positive patch test reaction to drugs with sulfhydryl group. Kurumaji Y, et al. **J Dermatol** 1990 Mar; 17(3):176–81
Systemic and local allergic reactions to the tine test purified protein derivative [letter] Wright DN, et al. **JAMA** 1989 Dec 1;262(21):2999–3000
Red men should go: vancomycin and histamine release [see comments] **Lancet** 1990 Apr 28;335(8696):1006–7 (25 ref.) Comment in: Lancet 1990 Jun 2;335(8701):1341.
Rash with amoxycillin–clavulanate therapy in HIV–infected patients [letter] [see comments] Battegay M, et al. **Lancet** 1989 Nov 4;2(8671):1100 Comment in: Lancet 1989 Dec 2;2(8675):1332–3. Comment in: Lancet 1990 Feb 24;335(8687):474–5.
Unusual adverse reaction to an acaricide [letter] Blanc D, et al. **Lancet** 1990 May 26;335(8700):1291–2

Multiple drug reactions in a patient with AIDS [letter] [see comments] Ong EL, et al. **Lancet** 1989 Oct 21; 2(8669):976–7 Comment in: Lancet 1989 Dec 16;2(8677):1455.
"Treating through" hypersensitivity to co-trimoxazole in AIDS patients [letter] Putterman C, et al. **Lancet** 1990 Jul 7;336(8706):52
Erythematous reactions at intramuscular injection sites [letter] Shen K. **Lancet** 1990 Sep 15;336(8716):689–90
Multiple drug reactions in a patient with AIDS [letter; comment] Wignants H, et al. **Lancet** 1989 Dec 16; 2(8677):1455 Comment on: Lancet 1989 Oct 21;2(8669):976–7.
Chrysotherapy provoking exacerbation of contact hypersensitivity to nickel [letter] Wijnands MJ, et al. **Lancet** 1990 Apr 7;335(8693):867–8
Radiotherapy enhances the toxicity of aminoglutethimide. Vanek N, et al. **Med Pediatr Oncol** 1990;18(2):162–4
Phototoxicity of tin protoporphyrin, tin mesoporphyrin, and tin diiododeuteroporphyrin under neonatal phototherapy conditions. Fort FL, et al. **Pediatrics** 1989 Dec;84(6):1031–7
The piroxicam enigma. Ljunggren B. **Photodermatol** 1989 Aug;6(4):151–3 (20 ref.)
Dynamics of systemic quinidine photoallergy in the mouse. Ljunggren B, et al. **Photodermatol** 1989 Aug;6(4):166–70
Photoallergic reaction induced by piroxicam. Sunohara A, et al. **Photodermatol** 1989 Aug;6(4):188–90
Nonsteroidal anti-inflammatory drug reactions. Bigby M. **Semin Dermatol** 1989 Sep;8(3):182–6 (41 ref.)
The file of side effects to the skin: a guide to drug eruptions. Bruinsma W. **Semin Dermatol** 1989 Sep;8(3):141–3 (18 ref.)
Chemotherapy-induced cutaneous reactions. Kerker BJ, et al. **Semin Dermatol** 1989 Sep;8(3):173–81 (46 ref.)
[Sulfasalazine allergy: fever, skin rash, hepatitis and T-lymphocytes] Gyasens IC, et al. **Ned Tijdschr Geneeskd** 1989 Aug 12;133(32):1608–10 (Eng. Abstr.) (Dut)
[Corticosteroid allergy] Lauerma AI, et al. **Duodecim** 1989; 105(20):1669–73 (14 ref.) (Fin)
[Allergy to Tégobétaine: apropos of a case] Bonneau JC. **Allerg Immunol (Paris)** 1990 May;22(5):195 (Fre)
[Contact dermatitis caused by pristinamycin after sensitization to topical virginiamycin] Pillette M, et al. **Allerg Immunol (Paris)** 1990 May;22(5):197 (Fre)
[Allergic reactions to disulfiram implants] Minet A, et al. **Ann Dermatol Venereol** 1989;116(8):543–5 (Fre)
[Dermatologic manifestation of undesirable effects of drugs (excluding cytostatic drugs)] Villette B, et al. **Ann Med Interne (Paris)** 1989;140(7):609–13 (22 ref.) (Eng. Abstr.) (Fre)
[Immediate hypersensitivity to latex: a new problem. Future perspectives] Dry J, et al. **Bull Acad Natl Med** 1989 Oct; 173(7):913–7 (5 ref.) (Eng. Abstr.) (Fre)
[Allergic reaction to lavage with mesalazine (letter)] Boulain T, et al. **Gastroenterol Clin Biol** 1990;14(3):288–9 (Fre)
[Acute generalized exanthematous pustulosis] Epelbaum S, et al. **Pediatrie** 1989;44(5):387–9 (Eng. Abstr.) (Fre)
[Trial of danazol and zidovudine combination in HIV infection. Increased risk of cutaneous allergy (letter)] Lang JM, et al. **Presse Med** 1989 Sep 30;18(30):1480 (Fre)
[Severe bullous forms of drug eruptions] Sfar Z, et al. **Tunis Med** 1989 Dec;67(12):805–8 (Fre)
[The dangers of olaquindox. Photoallergy, chronic photosensitive dermatitis and extreme increased photosensitivity in the human, hypoaldosteronism in swine] Schauder S. **Derm Beruf Umwelt** 1989 Sep–Oct;37(5):183–5 (Eng. Abstr.) (Ger)
[Cutaneous reactions to treatment with recombinant human erythropoietin] Schröder-Kolb B. **Derm Beruf Umwelt** 1990 Jan–Feb;38(1):12–3 (Eng. Abstr.) (Ger)
[Hypersensitivity to levobunolol] Schultheiss E. **Derm Beruf Umwelt** 1989 Sep–Oct;37(5):185–6 (Eng. Abstr.) (Ger)
[Allergic reactions to glucocorticoids] Uter W. **Derm Beruf Umwelt** 1990 May–Jun;38(3):75–90 (148 ref.) (Eng. Abstr.) (Ger)
[Do Varicosan bandages really rarely cause contact eczema? Case report of allergic contact dermatitis caused by propyl hydroxybenzoate following the use of Varicosan bandages] Lindner K, et al. **Dermatol Monatsschr** 1989;175(10):655–7 (Eng. Abstr.) (Ger)
[Talastine (Ahanon) as a cause of allergic drug exanthema] Richter G, et al. **Dermatol Monatsschr** 1990;176(2–3):111–3 (Eng. Abstr.) (Ger)
[Relevance of a positive test reaction to merthiolate] Aberer W. **Hautarzt** 1990 Feb;41(2):112 (Ger)
[Photocontact allergy caused by benzydamine (Tantum)] Frosch PJ, et al. **Hautarzt** 1989 Dec;40(12):771–3 (Eng. Abstr.) (Ger)
[Steroid-induced damage of the facial skin following use of prednicarbate] Lubach D, et al. **Hautarzt** 1990 Jan; 41(1):43–5 (Eng. Abstr.) (Ger)
[Allergy to amalgam] von Mayenburg J. **Hautarzt** 1989 Aug; 40(8):536–7 (Ger)
[Contact allergies caused by bufexamac] Geier J, et al. **Med Klin** 1989 Jul 15;84(7):333–8 (Eng. Abstr.) (Ger)
[Allergic contact eczema to etofenamate and dwarf pine oil] Knöll R, et al. **Sportverletz Sportschaden** 1990 Jun;4(2):96–8 (11 ref.) (Eng. Abstr.) (Ger)
[Severe generalized exanthema following long-term treatment with captopril] Clemens G, et al. **Verh Dtsch Ges Inn Med** 1989;95:721–3 (Ger)
[Induced pemphigus] Wolf R, et al. **Harefuah** 1990 May 15; 118(10):594–6 (48 ref.) (Heb)
[Contact sensitization to thimerosal in healthy subjects] Seidenari S, et al. **G Ital Dermatol Venereol** 1989 Jul–Aug; 124(7–8):335–9 (Eng. Abstr.) (Ita)
[Drug eruption due to iohexol (Omnipaque)] Asano S, et al. **Rinsho Hoshasen** 1990 Apr;35(4):533–6 (Eng. Abstr.) (Jpn)
[Aspirin tolerance in individuals with aspirin-induced urticaria-edematous lesions] Grzelewska-Rzymowska I, et al. **Pol Tyg Lek** 1989 Jul 10–17;44(28–29):667–9 (Eng. Abstr.) (Pol)
[Effectiveness and toxicity of intra-arterial infusions of platidiam and nitrosomethylurea in disseminated melanoma of the skin of the extremities] Shatikhin VA, et al. **Sov Med** 1990;(2):116–8 (Rus)
[Toxicoderma following the use of grey ointment] Puzatov AK, et al. **Vrach Delo** 1990 Feb;(2):94 (Rus)
[Adverse reactions caused by drugs in pediatrics] Vázquez de la Villa A, et al. **An Esp Pediatr** 1989 Jul;31(1):49–53 (Eng. Abstr.) (Spa)
[Glans penis necrosis secondary to gentian violet treatment] Zabala Egurrola JA, et al. **Arch Esp Urol** 1989 Oct; 42(8):800–2 (Eng. Abstr.) (Spa)
[D-penicillamine and cutaneous lesions in Wilson's disease (letter)] Peiró Grasa A, et al. **Neurologia** 1986 Mar–Apr; 1(2):88–9 (Spa)
[A localized skin reaction caused by intramuscular vitamin K1 (letter)] Allué Bellosta L, et al. **Rev Clin Esp** 1989 Sep; 185(4):217–8 (Spa)

GENETICS

Pharmacogenetics and cutaneous drug reactions. Shear NH, et al. **Semin Dermatol** 1989 Sep;8(3):219–26 (53 ref.)

IMMUNOLOGY

Macrophage migration inhibition factor (MIF) in drug eruption. Halevy S, et al. **Arch Dermatol** 1990 Jan; 126(1):48–51
Immunology of adverse drug eruptions. Millikan LE, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):30–9
Evaluation of skin test reactions in patients with non-immediate type drug eruptions. Osawa J, et al. **J Dermatol** 1990 Apr;17(4):235–9
[Surfen allergy causing insulin depot S hypersensitivity] Kása M, et al. **Orv Hetil** 1990 May 6;131(18):965–6, 969 (Eng. Abstr.) (Hun)

PATHOLOGY

Fixed drug eruption. Expression of epidermal keratinocyte intercellular adhesion molecule-1 (ICAM-1). Shiohara T, et al. **Arch Dermatol** 1989 Oct;125(10):1371–6
Fixed-drug eruption due to dextromethorphan [letter] Stubb S, et al. **Arch Dermatol** 1990 Jul;126(7):970–1
Atenolol-induced pustular psoriasis [letter] Wakefield PE, et al. **Arch Dermatol** 1990 Jul;126(7):968–9
Histology of adverse cutaneous drug reactions. Rehman RS. **Clin Dermatol** 1986 Jan–Mar;4(1):23–9
Contact dermatitis sparing the eruption of herpes zoster and its periphery. Katayama H, et al. **Dermatologica** 1990; 181(1):65–7
Steroid-induced dermal atrophy. Investigations on discontinuous application. Lubach D, et al. **Dermatologica** 1989;179(2):67–72
Lichenoid drug eruptions due to nandrolone furylpropionate (Demelon). Aihara M, et al. **J Dermatol** 1989 Aug; 16(4):330–4
Sulfhydryl drug-induced eruption: a clinical and histological study. Kitamura K, et al. **J Dermatol** 1990 Jan;17(1):44–51
Allergic cutaneous reactions to drugs. Bigby M, et al. **Prim Care** 1989 Sep;16(3):713–27 (57 ref.)
[Unusual cutaneous angiofibromatosis following gold therapy of primary chronic polyarthritis] Herbst WM, et al. **Hautarzt** 1989 Sep;40(9):568–72 (Eng. Abstr.) (Ger)
[Photosensitivity following enoxacin and xipamide: combined phototoxic and photo-allergic reaction to enoxacin, photo-allergic reaction to xipamide with subsequent transient light reaction] Schauder S. **Z Hautkr** 1990 Mar; 65(3):253–62 (Eng. Abstr.) (Ger)

PREVENTION & CONTROL

Desensitization to sulfonamides in patients with HIV infection. Torgovnick J, et al. **Am J Med** 1990 May; 88(5):548–9
Reduction of anthralin-induced inflammation by application of amines. Ramsay B, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):765–72

VETERINARY

Cutaneous drug reactions in small animals. Nesbitt GH. **Clin Dermatol** 1986 Jan–Mar;4(1):190–3

DERMATITIS, PHOTOCONTACT see **PHOTOSENSITIVITY DISORDERS**

DERMATITIS SEBORRHEICA see **SEBORRHEA**

DERMATITIS VENENATA see **DERMATITIS, CONTACT**

DERMATITIS VERRUCOSA see **CHROMOBLASTOMYCOSIS**

DERMATOGLYPHICS

Dermatoglyphic patterns in congenital dislocation of the hip. Gür I, et al. **Acta Orthop Belg** 1990;56(1 (Pt A)):33–5
Dermatoglyphic analysis of autistic basque children. Arrieta MI, et al. **Am J Med Genet** 1990 Jan;35(1):1–9
De novo direct tandem duplication of the short arm of chromosome 7(p21.1–p14.2). Dębiec-Rychter M, et al. **Am J Med Genet** 1990 Jul;36(3):316–20
Dermatoglyphics in von Recklinghausen neurofibromatosis. Pallotta R, et al. **Am J Med Genet** 1989 Oct;34(2):233–6
Diversity of palmar pattern ridge counts in Iranian populations. Kamali MS, et al. **Am J Phys Anthropol** 1990 Mar;81(3):363–73
Relationships of epidermal ridge patterns with body measurements and their possible evolutionary significance. Loesch DZ, et al. **Am J Phys Anthropol** 1990 Jun; 82(2):183–9
Inbreeding effects on bilateral asymmetry of dermatoglyphic patterns. Mukherjee A. **Am J Phys Anthropol** 1990 Jan; 81(1):77–89
Digital dermatoglyphics of three Amerindian populations of the Brazilian Amazonia: a further test of the field theory. Santos RV, et al. **Ann Hum Biol** 1990 May–Jun;17(3):213–6
Qualitative dermatoglyphic affinities between the migrant groups of fishermen of Puri Coast, India. Reddy BM. **Anthropol Anz** 1990 Jun;48(2):149–55
Occupational exposure to elemental constituents in fingerprint powders. Van Netten C, et al. **Arch Environ Health** 1990 Mar–Apr;45(2):123–7
Prenatal psychological stress, dermatoglyphic asymmetry and pregnancy outcome in the pigtailed macaque (Macaca nemestrina). Newell-Morris LL, et al. **Biol Neonate** 1989; 56(2):61–75
Digital dermatoglyphics in mammary cancer [letter; comment] Gamel JW. **Cancer Invest** 1989;7(3):301–2 Comment on: Cancer Invest 1988;6(1):15–27.
Population structure analysis using polygenic traits: estimation of migration matrices. Blangero J. **Hum Biol** 1990 Feb;62(1):27–48
Quantitative dermatoglyphics in schizophrenia: study of family history subgroups. Fañanás L, et al. **Hum Biol** 1990 Jun;62(3):421–7
Dermatoglyphics in retinitis pigmentosa [letter] Swarna M, et al. **Indian Pediatr** 1989 Jun;26(6):609
Specific dermatoglyphic patterns: a characteristic manifestation of acantholytic dyskeratotic dermatoses. Raff M, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 1):958–60
More on Kirlian photography [letter] Root N. **J Biol Photogr** 1990 Jan;58(1):28–9
Dermatoglyphic study in children with phenylketonuria. Balci S, et al. **J Inherited Metab Dis** 1989;12(3):323–6
Prevalence of digital arches in children with abdominal pain and constipation. Staiano A, et al. **J Pediatr** 1990 Sep; 117(3):435–6
Dermatoglyphic (fingerprint) patterns in celiac disease. Weizman Z, et al. **J Pediatr Gastroenterol Nutr** 1990 May; 10(4):451–3
Hereditary gingival fibromatosis: report on three families and dermatoglyphic analysis. Skrinjarić I, et al. **J Periodont Res** 1989 Sep;24(5):303–9
Fingerprint analysis of patients with systemic lupus erythematosus and their relatives. Schur PH. **J Rheumatol** 1990 Apr;17(4):482–4
Prenatal detection of simian crease. Jeanty P. **J Ultrasound Med** 1990 Mar;9(3):131–6
[Dermatoglyphics parameters and cluster analysis of seven minority nationalities] Zhang HG, et al. **J Chuan Hsueh Pao** 1989;16(1):74–80 (Eng. Abstr.) (Chi)
[Deviations in dermatoglyphic signs in juvenile hypertensives] Palyzová D, et al. **Cas Lek Cesk** 1990 Apr 6;129(14):438–42 (Eng. Abstr.) (Cze)
[Dermatoglyphic analysis of patients with hypertrophic cardiomyopathy] Smahel Z, et al. **Cas Lek Cesk** 1989 Nov 24;128(48):1509–12 (Eng. Abstr.) (Cze)
[Presentation of fingerprints of cadavers after an extended period of time, and also immersed cadavers] Härtel V, et al. **Arch Kriminol** 1990 May–Jun;185(5–6):136–41 (Eng. Abstr.) (Ger)
[Aspects of endocrine anthropology in precocious puberty] Ciovîrnache M, et al. **Endocrinologie** 1989 Jul–Sep; 27(3):119–31 (Rum)
[Formation of the papillary surface of the hands and feet in prenatal development in man] Pospíšil M, et al. **Bratisl Lek Listy** 1989 Jul;90(7):499–506 (Eng. Abstr.) (Slo)

CLASSIFICATION

Quantitative and qualitative finger dermatoglyphics in the Basque Valley of Urola, Spain. Arrieta MI, et al. **Anthropol Anz** 1990 Mar;48(1):65–84
Diversity of topological palmar patterns in Iranian populations. Kamali MS, et al. **Anthropol Anz** 1990 Mar; 48(1):85–97

HISTORY

How fingerprints came into use for personal identification. Caplan RM. **J Am Acad Dermatol** 1990 Jul;23(1):109–14

DERMATOLOGIC AGENTS

see related
ANTI-INFECTIVE AGENTS, LOCAL

New improved Nivea oil cannot be used alone as vehicle for salicylic acid [letter] Helm TN, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):814

Skin Pharmacology Society. 5th annual symposium. May 27–28, 1988, Paris. Abstracts. **Skin Pharmacol** 1988; 1(1):38–75

Skin Pharmacology Society. 6th annual meeting. September 1–2, 1989, New York. Abstracts. **Skin Pharmacol** 1989; 2(1):41–60

ADMINISTRATION & DOSAGE

Hydrogen peroxide cream for the prevention of white pressure areas in UVA sunbeds. Tegner E, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):75–6

[Treatment success using topical drugs containing urea in papillomatosis cutis verrucosa (lymphostatic edema papillomatosis)] Lindemayr H. **Hautarzt** 1989;40 Suppl 9:78–9 (Eng. Abstr.) (Ger)

[Improvement of skin moisture and skin texture with urea therapy] Puschmann M, et al. **Hautarzt** 1989;40 Suppl 9:67–70 (Eng. Abstr.) (Ger)

[Biochemistry, pharmacology and toxicology of urea] Raab W. **Hautarzt** 1989;40 Suppl 9:23–6 (22 ref.) (Eng. Abstr.) (Ger)

[Water content of the skin following salicylic acid and urea treatment] Rácz I, et al. **Hautarzt** 1989;40 Suppl 9:61–2 (Eng. Abstr.) (Ger)

[Urea and urea combinations in psoriasis] Rohde BT. **Hautarzt** 1989;40 Suppl 9:74–5 (Eng. Abstr.) (Ger)

[Urea as a single drug in dry skin] Swanbeck G. **Hautarzt** 1989;40 Suppl 9:42–3 (Eng. Abstr.) (Ger)

[Significance of urea in external therapy] Wohlrab W. **Hautarzt** 1989;40 Suppl 9:35–41 (24 ref.) (Eng. Abstr.) (Ger)

[Drug storage and administration references. Drugs for cutaneous administration] Kircher W. **Med Monatsschr Pharm** 1990 Jun;13(6):187–90 (Ger)

[Cutaneous administration of liposomes—a review of the literature with special reference to findings from keratinocyte cultures, animal experiments and clinical studies] Bonnekoh B, et al. **Z Hautkr** 1990 Jan;65(1):99–105 (87 ref.) (Eng. Abstr.) (Ger)

[Optimizing the effect of a cosmetic care product on the human skin] Schrader K. **Z Hautkr** 1989 Dec 15; 64(12):1099–102; 1105–7 (Eng. Abstr.) (Ger)

[National and international experiences with azelaic acid cream in the treatment of papulo-pustular acne] Cavicchini S, et al. **G Ital Dermatol Venereol** 1989 Oct;124(10):465–70 (Eng. Abstr.) (Ita)

[National and international clinical experiences with azelaic acid cream in the treatment of comedo acne] Giannotti B. **G Ital Dermatol Venereol** 1989 Oct;124(10):471–7 (Eng. Abstr.) (Ita)

[Topical therapeutic action of azelaic acid in polymorphous acne] Troccoli T, et al. **G Ital Dermatol Venereol** 1989 Oct; 124(10):485–91 (Eng. Abstr.) (Ita)

ADVERSE EFFECTS

Allergic contact dermatitis from fluocortin butyl. Aguirre Martinez-Falero A, et al. **Contact Dermatitis** 1990 Apr; 22(4):241–2

Contact dermatitis from phenyl salicylate in a galenic cream. Fimiani M, et al. **Contact Dermatitis** 1990 Apr;22(4):239

Compound allergy to Spectraban 15 lotion and Zovirax cream. Goh CL. **Contact Dermatitis** 1990 Jan;22(1):61–2

Allergic contact dermatitis from colophony in a wart gel. Veraldi S, et al. **Contact Dermatitis** 1990 Mar;22(3):184

Drug administration to the pregnant or lactating woman: a reference guide for dermatologists. Stockton DL, et al. **J Am Acad Dermatol** 1990 Jul;23(1):87–103 (139 ref.)

[Topical therapy in pregnancy] Zesch A. **Hautarzt** 1990 Jul; 41(7):365–8 (5 ref.) (Eng. Abstr.) (Ger)

[Geriatric dermatopharmacology] Merk HF. **Z Hautkr** 1989 Nov 15;64(11):1015–8 (15 ref.) (Eng. Abstr.) (Ger)

HISTORY

The development of 20th century dermatologic drugs. Quintal D, et al. **Clin Dermatol** 1989 Jul–Sep;7(3):38–47

PHARMACOKINETICS

[Promoting penetration of locally applied substances by urea] Stüttgen G. **Hautarzt** 1989;40 Suppl 9:27–31 (Eng. Abstr.) (Ger)

PHARMACOLOGY

A possible mechanism of action for azelaic acid in the human epidermis. Schallreuter KU, et al. **Arch Dermatol Res** 1990; 282(3):168–71

A simple method for the study of scale pattern and effects of a moisturizer—qualitative and quantitative evaluation by D-Squame tape compared with parameters of epidermal hydration. Serup J, et al. **Clin Exp Dermatol** 1989 Jul; 14(4):277–82

Influence of topical metal binding substances, vehicles, and corticosteroid creams on the allergic patch test reaction in metal-sensitive patients. Fischer T, et al. **Dermatol Clin** 1990 Jan;8(1):27–31

The role of topical agents in the healing of full-thickness wounds. Watcher MA, et al. **J Dermatol Surg Oncol** 1989 Nov;15(11):1188–95

Evaluation of a new method of assessing pruritus and antipruritic drugs. Wahlgren CF, et al. **Skin Pharmacol** 1988;1(1):3–13

[The effect of urea on epidermal cell renewal measured with a noninvasive method] Baló-Banga JM. **Hautarzt** 1989;40 Suppl 9:63–6 (Eng. Abstr.) (Ger)

[Salicylic acid and urea—possible modification of the keratolytic effect of salicylic acid by urea] Gabard B, et al. **Hautarzt** 1989;40 Suppl 9:71–3 (Eng. Abstr.) (Ger)

[Urea receptors] Raab R. **Hautarzt** 1989;40 Suppl 9:80–1 (5 ref.) (Ger)

[Mechanism of azelaic acid action in acne] Passi S, et al. **G Ital Dermatol Venereol** 1989 Oct;124(10):455–63 (Eng. Abstr.) (Ita)

THERAPEUTIC USE

Pyrethrins and pyrethroids in dermatology. Taplin D, et al. **Arch Dermatol** 1990 Feb;126(2):213–21 (60 ref.)

Moisturizer prescription patterns among Australasian dermatologists. Shumack SP, et al. **Australas J Dermatol** 1988;29(3):151–3

Low concentration dithranol and coal tar (Psorin) in psoriasis: a comparison with alcoholic coal tar extract and allantoin (Alphosyl). Harrington CI. **Br J Clin Pract** 1989 Jan;43(1):27–9

Effectiveness of a new coal tar preparation in the treatment of chronic plaque-type psoriasis. Langner A, et al. **Br J Clin Pract** 1989 Apr;43(4):148–50

Effects of drugs on arachidonic acid metabolism in psoriasis [letter; comment] Goldyne ME. **J Am Acad Dermatol** 1990 Jul;23(1):156–7 Comment on: J Am Acad Dermatol 1989 Jun;20(6):1045–53.

[Urea in dermatology. An international symposium. Salzburg, 2–3 December 1988. Proceedings] **Hautarzt** 1989;40 Suppl 9:1–86 (Ger)

[Urea in dermatology II] Müller KH, et al. **Hautarzt** 1989; 40 Suppl 9:13–9 (89 ref.) (Eng. Abstr.) (Ger)

[Urea in dermatology I] Müller KH, et al. **Hautarzt** 1989;40 Suppl 9:1–12 (159 ref.) (Eng. Abstr.) (Ger)

[Urea and urea combinations in ichthyoses] Schnyder UW. **Hautarzt** 1989;40 Suppl 9:51–3 (10 ref.) (Eng. Abstr.) (Ger)

[Therapeutic drug use. References for storage and delivery] Kircher D. **Med Monatsschr Pharm** 1990 May;13(5):149–51 (Ger)

[Validity of azelaic acid in the therapy of acne. Long-term clinical results] Colonna SM. **G Ital Dermatol Venereol** 1989 Oct;124(10):479–84 (Eng. Abstr.) (Ita)

[Azelaic acid in the treatment of acne] Nazzaro-Porro M, et al. **G Ital Dermatol Venereol** 1989 Apr;124(4):175–84 (35 ref.) (Eng. Abstr.) (Ita)

[Treatment of dry skin by the use of a "physiologic" bath oil] Torresani C, et al. **G Ital Dermatol Venereol** 1989 Mar; 124(3):VII–XII (Eng. Abstr.) (Ita)

[Evaluation of the efficacy and tolerability of a cream soap and a non-alcoholic tonic in the therapy of rosacea] Uzzauto MT, et al. **G Ital Dermatol Venereol** 1989 Mar; 124(3):XXI–XXIII (Eng. Abstr.) (Ita)

[Azelaic acid: an innovation in the treatment of acne. Introduction and history] Zina G. **G Ital Dermatol Venereol** 1989 Oct;124(10):451–3 (Ita)

[The combined treatment with aurobin and dipromonium of focal scleroderma] Khamaganova IV. **Vestn Dermatol Venerol** 1989;(9):66–9 (Eng. Abstr.) (Rus)

[Dipromonium in the treatment of scleroderma patients] Khamaganova IV. **Vestn Dermatol Venerol** 1989;(6):67–70 (Eng. Abstr.) (Rus)

[Experience in treating psoriasis patients with the preparation Ditrastic] Mashkillelson AL, et al. **Vestn Dermatol Venerol** 1989;(12):51–2 (Eng. Abstr.) (Rus)

TOXICITY

Teratogenicity of the 13-cis and all-trans-isomers of the aromatic retinoid etretin: correlation to transplacental pharmacokinetics in mice during organogenesis after a single oral dose. Löfberg B, et al. **Teratology** 1990 Jun; 41(6):707–16

DERMATOLOGY

see related
SKIN DISEASES

How doctor's advice is followed by mothers of atopic children. Yamamoto K. **Acta Derm Venereol Suppl (Stockh)** 1989;144:31–3

EMLA: a new topical anesthetic. Juhlin L, et al. **Adv Dermatol** 1990;5:75–91; discussion 92 (34 ref.)

Office photography. Sebben JE. **Adv Dermatol** 1990;5:53–73 (14 ref.)

Giulio Turcato's abstract depiction of the skin. Borroni G. **Am J Dermatopathol** 1990 Jun;12(3):299–301

Are dermatopathologists not socially conscious? [editorial] Cockerell CJ. **Am J Dermatopathol** 1990 Apr;12(2):210

The dermatopathologist and human immunodeficiency virus infection. Cockerell CJ. **Arch Dermatol** 1989 Nov; 125(11):1565–7

Chaos: to see a world in a grain of sand and a heaven in a wild flower. Goldsmith LA. **Arch Dermatol** 1990 Sep; 126(9):1159–60

Patient personal injury litigation against dermatology residency programs in the United States, 1964–1988. Implications for future risk-management programs in dermatology and dermatologic surgery. Hollabaugh ES, et al. **Arch Dermatol** 1990 May;126(5):618–22

A centennial journal now in our language [editorial] Mascaró JM. **Arch Dermatol** 1990 Feb;126(2):227–8 (Eng, Spa)

AIDS and the dermatologist. A perspective [see comments] Prose NS. **Arch Dermatol** 1989 Dec;125(12):1700–2 (12 ref.) Comment in: Arch Dermatol 1990 Apr;126(4):537.

Moisturizer prescription patterns among Australasian dermatologists. Shumack SP, et al. **Australas J Dermatol** 1988;29(3):151–3

The initial effects on workload and outcome of a public education campaign on early diagnosis and treatment of malignant melanoma in Leicestershire [published erratum appears in Br J Dermatol 1990 May;122(5):722] Graham-Brown RA, et al. **Br J Dermatol** 1990 Jan; 122(1):53–9

Integrated in-patient and out-patient dermatology management. Finlay AY, et al. **Clin Exp Dermatol** 1989 Jan;14(1):7–11

The safety of dermatologic liposuction surgery. Hanke CW, et al. **Dermatol Clin** 1990 Jul;8(3):563–8 (11 ref.)

Analysis of dermatological referrals (a series of 662 cases from base and army hospital complex). Arora PN, et al. **Indian J Dermatol** 1989 Mar;34(1):1–8

Recent advances in dermatology and medicine (1989). Fine RM. **Int J Dermatol** 1990 May;29(4):304–8

Cosmetics: content and function [letter; comment] Jackson EM. **Int J Dermatol** 1990 Jan–Feb;29(1):72 Comment on: Int J Dermatol 1988 Dec;27(10):665–72.

Meta-analysis for dermatologists. Lycka BA. **Int J Dermatol** 1990 Apr;29(3):229–31

Anesthesia for the dermatologic surgeon. Scarborough D, et al. **Int J Dermatol** 1989 Dec;28(10):629–37

Risks of infection to dermatologists, cosmetic workers, and the public. Wagner RF Jr. **Int J Dermatol** 1990 May; 29(4):253–7 (65 ref.)

HIV disease, from discovery to management: the major role of the dermatologist. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 2):1306–18

Update '89. HIV disease, from discovery to management: the major role of the dermatologist. Summary of papers presented at the Symposium on AIDS held during the forty-seventh annual meeting of the American Academy of Dermatology. San Francisco, Dec. 5, 1989. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 2):1306–18

Nail disease and dermatology. Cohen PR, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 1):1020–2 (35 ref.)

The Alexian Project: making medicine work. Greenberg M. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 1):1019

Dermatology and the environment: a unique opportunity. Grupenhoff JT. **J Am Acad Dermatol** 1990 Mar;22(3):521–2

Accutane [letter] Penneys NS. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):811

Ethics and the academic-corporate relationship. Resnick SD. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):293–4

Wake up, advertisers [letter] Sherertz EF, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):818

The literature of dermatologic surgery and oncology: 1970-present. Hanke CW. **J Dermatol Surg Oncol** 1990 Jul; 16(7):677–80

The literature of dermatologic surgery and oncology: 1970—present. Hanke CW. **J Dermatol Surg Oncol** 1990 Aug;16(8):757–67

ASDS 20th anniversary: the dermatologic surgeon: blueprint for a state society. Trimble JW, et al. **J Dermatol Surg Oncol** 1990 Jun;16(6):571–2

The new dermatology. Implications for the dermatologist and for dermatological training. Greaves MW. **J R Coll Physicians Lond** 1990 Apr;24(2):87–9

The Auckland skin clinic tinea pedis and erythrasma study. Allen S, et al. **N Z Med J** 1990 Aug 22;103(896):391–3

Computers and dermatology. **Semin Dermatol** 1989 Jun; 8(2):65–130

International Foundation for Dermatology. Kopf AW. **Trop Doct** 1990 Jan;20(1):37

[Revision of dermatologic terminology] Amblard P, et al. **Ann Dermatol Venereol** 1990;117(4):269–76 (Fre)

[Dermatologists facing the risk of viral transmission. Analysis of the precautionary measures of 472 practitioners] Caumes E, et al. **Ann Dermatol Venereol** 1990;117(2):117–21 (22 ref.) (Eng. Abstr.) (Fre)

[Results of 1 year's activities of the AIDS Serological Laboratory of the District Dermato-Venereological Clinic in Szczecin] Malysa H. **Przegl Dermatol** 1989 Jul–Aug; 76(4):322–5 (Eng. Abstr.) (Pol)

[Participation of district dermato-venereological clinics in preventing HIV infection in Poland] Stapiński A, et al. **Przegl Dermatol** 1989 Jul–Aug;76(4):345–7 (Eng. Abstr.) (Pol)

[The participation of dermatologists-venereologists in the detection and prevention of human immunodeficiency virus infection] Levin MM, et al. **Vestn Dermatol Venerol** 1989; (11):35–7 (Eng. Abstr.) (Rus)

EDUCATION

Acquired immunodeficiency syndrome and the dermatologist [letter; comment] Buchman JU. **Arch Dermatol** 1990 Apr; 126(4):537 Comment on: Arch Dermatol 1989 Dec;125(12):1700-2.
Attraction of MD-PhDs to dermatology [letter; comment] Krueger G, et al. **Arch Dermatol** 1990 Feb;126(2):248 Comment on: Arch Dermatol 1989 Jun;125(6):845-6.
Inequalities in undergraduate dermatology [letter] Carmichael AJ, et al. **Clin Exp Dermatol** 1989 Nov; 14(6):470
Dermatology days. Burnett JW, et al. **Cutis** 1990 Mar; 45(3):155-8
Training in liposuction for dermatologists. Newman J. **Dermatol Clin** 1990 Jul;8(3):581-2
Learning dermatology on a dermatology elective. Sherertz EF. **Int J Dermatol** 1990 Jun;29(5):345-8
Tailor-made training. The International Medical Scholars Program. Sutnick AI, et al. **Int J Dermatol** 1990 Jul-Aug; 29(6):416-7
Training residents in dermatopathology: why, when, where, and how. Ackerman AB. **J Am Acad Dermatol** 1990 Jun; 22(6 Pt 1):1104-6
First cosmetic surgery resident [letter] Farber GA. **J Dermatol Surg Oncol** 1990 Jan;16(1):69
ASDS 20th anniversary: academic dermatologic surgery: a short review. Krull EA. **J Dermatol Surg Oncol** 1990 Aug; 16(8):755-6 (0 ref.)
What's missing from residency training in plastic surgery? [editorial] Ackerman AB. **Plast Reconstr Surg** 1990 Jun; 85(6):951-2
[Psychosomatic medicine in dermatologic education] Bosse K, et al. **Hautarzt** 1990 Jun;41(6):302-4 (Eng. Abstr.) (Ger)
[Human resources in Hansen's disease] Gonçalves NN. **Hansenol Int** 1986 Jan-Dec;11(1-2):55-73 (Eng. Abstr.) (Por)
[The work experience of a school for the young dermatologist-venereologist] Glavinskaia TA, et al. **Vestn Dermatol Venerol** 1989;(9):30-1 (Eng. Abstr.) (Rus)
[Experience with a combined test exam in dermatovenereology] Potekaev NS, et al. **Vestn Dermatol Venerol** 1989;(7):26-9 (Eng. Abstr.) (Rus)
[A method for control over the training of student physicians in a department of skin and venereal diseases] Romanenko VN, et al. **Vestn Dermatol Venerol** 1990;(1):31-2 (Eng. Abstr.) (Rus)
[The practical trend in exams in dermatology and venereology] Savchak VI. **Vestn Dermatol Venerol** 1989; (10):24-5 (Eng. Abstr.) (Rus)
[Problem-oriented dermatology teaching—transformed medical education] Anderson C, et al. **Lakartidningen** 1990 Jul 25;87(30-31):2400-1 (Swe)

HISTORY

Role of skin lesions in the Salem witchcraft trials. Flotte TJ, et al. **Am J Dermatopathol** 1989 Dec;11(6):582-7
Joseph Towne. British pioneer of wax dermatologic modeling. Schnalke T. **Am J Dermatopathol** 1989 Oct; 11(5):466-72
The guru of the third floor. Brauer EW. **Dermatol Clin** 1990 Jan;8(1):1-2
The history of dermatologic liposuction. Coleman WP 3d. **Dermatol Clin** 1990 Jul;8(3):381-3
"The Crazy Canucks" [published erratum appears in Int J Dermatol 1990 Jun;29(5):362] Forsey RR. **Int J Dermatol** 1990 Jan-Feb;29(1):60-71
Thomas Jefferson and tropical dermatology. Parish LC, et al. **Int J Dermatol** 1989 Nov;28(9):615-8
History of dermatology at the New Jersey Medical School and at Seton Hall College of Medicine and Dentistry. Schwartz RA. **Int J Dermatol** 1989 Oct;28(8):548-9
ASDS 20th anniversary: the history of dermatologic surgery. Bennett RG, et al. **J Dermatol Surg Oncol** 1990 Apr; 16(4):384-8
Congratulatory messages. The American Society for Dermatologic Surgery 20th anniversary. Hanke CW. **J Dermatol Surg Oncol** 1990 Feb;16(2):189-99
A tribute to the three major societies of investigative dermatology on the occasion of their first joint meeting. Holubar K. **J Invest Dermatol** 1990 Jan;94(1):3-5
[The origin and development of the Second Dermatology Clinic of the First Medical School Hospital and Polyclinic in Prague] Stíva Z. **Cas Lek Cesk** 1989 Aug 25; 128(35):1110-3 (Cze)
[Good must drive out evil. On cosmetic treatment agents and earlier times' viewpoint on skin diseases] Weismann K. **Nord Med** 1990;105(6-7):200-1 (Eng. Abstr.) (Dan)
[A century of dermatology. The history of the French Society of Dermatology and Syphiligraphy] Amblard P. **Ann Dermatol Venereol** 1989;116(12):915-23 (Fre)
[Acquired bullous diseases. Development of idea over a century. Congress of 1889] Saurat JH. **Ann Dermatol Venereol** 1989;116(12):941-6 (Fre)
[History of nosology and formation of clinical thought in dermatology (letter)] Taïeb A. **Ann Dermatol Venereol** 1989;116(8):563 (Fre)
[22 June 1889. The founding of the French Society of Dermatology and Syphiligraphy] Tilles G, et al. **Ann Dermatol Venereol** 1989;116(12):965-72 (Fre)
[The 100-year history of the Dortmund Dermatology Clinic] Beideck S, et al. **Hautarzt** 1990 Jan;41(1):47-50 (Ger)
[History of the Munich Dermatology Society] Braun-Falco O, et al. **Hautarzt** 1990 May;41(5):290-4 (Ger)
[The history of dermatology and venereology at the General Hospital on the banks of the Isar in Munich (1813-1929)] Braun-Falco O, et al. **Hautarzt** 1989 Sep;40(9):595-600 (Eng. Abstr.) (Ger)
[Exlibris of famous dermatologists] Scholz A. **Hautarzt** 1990 Mar;41(3):178-81 (Eng. Abstr.) (Ger)
[Dermatology in Prague and the 1st Congress of the German Dermatology Society 1889] Scholz A, et al. **Hautarzt** 1989 Oct;40(10):652-9 (Eng. Abstr.) (Ger)
[The hundredth anniversary of the Japanese Journal of Dermatology] **Nippon Hifuka Gakkai Zasshi** 1990 Jan; 100(1):1-36 (Jpn)
[Various aspects of military dermatology in the light of 180 years of academic medical education in Warsaw] Lańcucki J, et al. **Przegl Dermatol** 1989 May-Jun;76(3):194-207 (Pol)
[Academic teaching of dermatology and venereology in Warsaw 1869-1939] Śródka A. **Przegl Dermatol** 1989 May-Jun;76(3):188-93 (Pol)
[Teaching of dermatology and venereology in Warsaw before the establishment of the first departments of these specialties in Poland] Stapiński A. **Przegl Dermatol** 1989 May-Jun;76(3):180-7 (Eng. Abstr.) (Pol)
[The 75th anniversary of the Department of Skin and Venereal Diseases of the Leningrad Health and Hygiene Medical Institute] Starchenko ME, et al. **Vestn Dermatol Venerol** 1989;(9):77-9 (Rus)

INSTRUMENTATION

Transonychial water loss: relation to sex, age and nail-plate thickness. Jemec GB, et al. **Br J Dermatol** 1989 Oct; 121(4):443-6
Transmission of virus particles by cryotherapy and multi-use caustic pencils: a problem to dermatologists? Jones SK, et al. **Br J Dermatol** 1989 Oct;121(4):481-6
A safe and effective modification of the hot-quartz mercury-vapor light source for routine office-based phototesting. Fenske NA, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):318-9
A new apparatus for hair regrowth in male-pattern baldness. Toshitani S, et al. **J Dermatol** 1990 Apr;17(4):240-6
The Keeler panoramic prismatic loupe. Fish FS. **J Dermatol Surg Oncol** 1990 Aug;16(8):716-7
An evaluation of wound closure tapes. Moy RL, et al. **J Dermatol Surg Oncol** 1990 Aug;16(8):721-3
Suture tensor. Weber PJ, et al. **J Dermatol Surg Oncol** 1990 Jun;16(6):535-7
[The application of lasers in dermatology] Dachów-Siwiec E. **Przegl Dermatol** 1989 Jan-Mar;76(1):70-6 (20 ref.) (Pol)

LEGISLATION & JURISPRUDENCE

Office surgery and the law. Coleman WP 3d, et al. **Adv Dermatol** 1987;2:207-27 (55 ref.)

MANPOWER

How many dermatologists? 1973 revisited [published erratum appears in Australas J Dermatol 1988;29(3):126] Taft EH. **Australas J Dermatol** 1988;29(2):61-71

METHODS

The application of lipo-suction surgery in dermatology. Stegman SJ. **Adv Dermatol** 1986;1:211-9 (12 ref.)
Electrosurgery. Its use in dermatology, with a review of its development and technologic aspects. Elliott JA Jr. **Arch Dermatol** 1966 Sep;94(3):340-50 (68 ref.)
An original procedure for quantitation of cutaneous resorption of sebum. Blanc D, et al. **Arch Dermatol Res** 1989;281(5):346-50
Practical procedures in dermatology. Paver RD. **Aust Fam Physician** 1990 May;19(5):699-701
Guidelines for transepidermal water loss (TEWL) measurement. A report from the Standardization Group of the European Society of Contact Dermatitis. Pinnagoda J, et al. **Contact Dermatitis** 1990 Mar;22(3):164-78
Anatomic rubber stamps of the face and body to document procedures in dermatologic surgery: one picture is worth a thousand words. Mohs FE, et al. **J Dermatol Surg Oncol** 1990 Mar;16(3):280-91
A method for measuring pressure sores. Berg W, et al. **Lancet** 1990 Jun 16;335(8703):1445-6
[Thermal sulfur compounds and esthetic dermatology] Grossi F. **Clin Ter** 1989 Dec 31;131(6):413-9 (22 ref.) (Eng. Abstr.) (Ita)
[A statement on the mathematical tasks of optimization in dermatology] Mavrov II, et al. **Vestn Dermatol Venerol** 1989;(9):26-9 (Eng. Abstr.) (Rus)

STANDARDS

[An improvement in occupational medical expertise in dermatology and venereology] Anton'ev AA, et al. **Vestn Dermatol Venerol** 1990;(4):42-5 (Eng. Abstr.) (Rus)

TRENDS

Past, present, and future [editorial] Arndt KA. **Arch Dermatol** 1990 Feb;126(2):226-7
Current trends in cosmetic dermatology. Wagner RF Jr. **Cutis** 1990 May;45(5):286
How the AAD should meet the challenges of the future: establish a House of Delegates. Kasch JA, et al. **J Am Acad Dermatol** 1990 Jul;23(1):145-9
Presidential perspectives. The American Society for Dermatologic Surgery 20th anniversary. Hanke CW. **J Dermatol Surg Oncol** 1990 Feb;16(2):115-27
Current trends in the practice of dermatologic surgery. Hanke CW, et al. **J Dermatol Surg Oncol** 1990 Feb; 16(2):130-1
The future of the ASDS and dermatologic surgery. Robins P. **J Dermatol Surg Oncol** 1990 Feb;16(2):184-5
Dermatology. Dover JS, et al. **JAMA** 1990 May 16; 263(19):2633-5
[Specialized titles in angiology (editorial)] Bollinger A, et al. **Vasa** 1990;19(1):4-5 (Ger)
[Dermatology 2000] Merk HF. **Z Hautkr** 1990 Jan;65(1):7 (Ger)
[The status of dermatovenereology and ways to accelerate the introduction of research results into practice] Skripkin IuK, et al. **Vestn Dermatol Venerol** 1989;(8):4-6 (Rus)

DERMATOLYSIS see **CUTIS LAXA**

DERMATOMEGALY see **CUTIS LAXA**

DERMATOMYCOSES

Superficial bacterial and fungal infections of the skin. Friedman AD. **Adv Pediatr Infect Dis** 1990;5:205-19 (83 ref.)
Fixed cutaneous sporotrichosis [letter] Chung G, et al. **Arch Dermatol** 1990 Mar;126(3):399-400
Cutaneous Bipolaris spicifera infection. Straka BF, et al. **Arch Dermatol** 1989 Oct;125(10):1383-6
Subcutaneous mycoses. Tomecki KJ, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):785-90 (7 ref.)
A familial occurrence of sporotrichosis. Yamada Y, et al. **J Dermatol** 1990 Apr;17(4):255-9
Dermatophytoses as occupational dermatoses in industrialized countries. Report on two cases from Munich. Korting HC, et al. **Mycoses** 1990 Feb;33(2):86-9
[Dermatomycoses] Fadrhoncová A. **Zdrav Aktual** 1983; 204:207-12 (Cze)
[General review of mycoses affecting the maxillofacial area] Piette EM. **Acta Stomatol Belg** 1989 Aug;86(2):87-140 (170 ref.) (Eng. Abstr.) (Dan)

BLOOD

[The glycolytic status of peripheral blood phagocytes and its therapeutic correction in patients with foot mycoses] Leshchenko VM, et al. **Vestn Dermatol Venerol** 1989; (7):8-10 (Eng. Abstr.) (Rus)

COMPLICATIONS

Recent investigations on the relationship between fungal skin diseases and atopic dermatitis. Svejgaard E, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:140-2 (15 ref.)
Formation of palisading granulomas in a patient with chronic cutaneous cryptococcosis. Leidel GD, et al. **Am J Dermatopathol** 1989 Dec;11(6):560-2
Does pityrosporum ovale have a role in psoriasis? [letter] Elewski B. **Arch Dermatol** 1990 Aug;126(8):1111-2
Herpetiform and mollusca contagiosa-like cutaneous cryptococcosis in a patient with AIDS. Azon-Masoliver A, et al. **Br J Dermatol** 1989 Nov;121(5):665-7
Disseminated cutaneous fungal infection and AIDS. Oriba HA, et al. **Cleve Clin J Med** 1990 Mar-Apr;57(2):189-91
Subcutaneous phaeohyphomycosis due to Exophiala jeanselmei in an immunosuppressed patient: case report. Allred BJ. **N Z Med J** 1990 Jul 11;103(893):321-2

DIAGNOSIS

Annular vesiculation. Bullous tinea corporis caused by Trichophyton rubrum. Bennion SD. **Arch Dermatol** 1989 Nov;125(11):1569, 1572
Pulmonary infiltrates, eosinophilia, and a facial skin nodule. Jacobs SE, et al. **Chest** 1990 Feb;97(2):476-8
Subcutaneous phycomycosis masquerading as a connective tissue tumour. Murthy VR, et al. **Indian J Pathol Microbiol** 1989 Apr;32(2):140-2
The superficial mycoses and the dermatophytes. Elewski BE, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):655-73 (33 ref.)
Cutaneous protothecosis—a case report. Otoyama K, et al. **J Dermatol** 1989 Dec;16(6):496-9
Diagnosis of Enterocytozoon bieneusi microsporidiosis in AIDS patients by recovery of spores from faeces [letter] van Gool T, et al. **Lancet** 1990 Sep 15;336(8716):697-8
Superficial fungal infections. A practical guide for primary care physicians. Pariser DM. **Postgrad Med** 1990 Apr; 87(5):205-14
Tinea nigra palmaris in Virginia: case report. Selden ST. **Va Med** 1990 Mar;117(3):116-7
[Fluorescence microscopy detection of mycopathogens using Rylux BSU] Hejtmánek M, et al. **Cesk Patol** 1989 Nov; 25(4):244-50 (Eng. Abstr.) (Cze)

[Atypical dermatomycoses in children as seen in personal observations] Filipiuk J, et al. **Pediatr Pol** 1989 Jun; 64(6):407–13 (Eng. Abstr.) **(Pol)**

[Paeciliomycosis] Akhunova AM. **Klin Med (Mosk)** 1989 Oct; 67(10):111–5 (Eng. Abstr.) **(Rus)**

[The early detection of allergic dermatoses and mycoses of the feet in workers in contact with phenol–formaldehyde resins] Bannikov EA, et al. **Vestn Dermatol Venerol** 1990; (3):19–21 (Eng. Abstr.) **(Rus)**

DIET THERAPY

[Dermatomycoses and an antifungal diet] Putzier E. **Wien Med Wochenschr** 1989 Aug 31;139(15–16):379–80 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

First Symposium on Terbinafine (Lamisil). Held during the tenth congress of the International Society of Human and Animal Mycology. Barcelona, 1988. Proceedings. **Clin Exp Dermatol** 1989 Mar;14(2):95–127

A clinical double-blind trial comparing amorolfine cream 0.5% (RO–14–4767) with bifonazole cream 1% in the treatment of dermatomycoses. del Palacio–Hernanz A, et al. **Clin Exp Dermatol** 1989 Mar;14(2):141–4

Blastomycosis in Namibia—report of a case successfully treated with itraconazole. Jordaan HF. **Clin Exp Dermatol** 1989 Sep;14(5):347–51

Clinical efficacy of terbinafine in 629 Japanese patients with dermatomycosis. Kagawa S. **Clin Exp Dermatol** 1989 Mar; 14(2):114–5

Preclinical evaluation of terbinafine in vivo. Mieth H, et al. **Clin Exp Dermatol** 1989 Mar;14(2):104–7

Itraconazole in the treatment of superficial mycoses—a double-blind study vs. placebo. Roseeuw D, et al. **Clin Exp Dermatol** 1990 Mar;15(2):101–4

Clinical efficacy and tolerability of terbinafine (Lamisil)—a new topical and systemic fungicidal drug for treatment of dermatomycoses. Villars V, et al. **Clin Exp Dermatol** 1989 Mar;14(2):124–7

Once daily administration of terbinafine to guinea-pigs with experimental dermatophytosis. Yamaguchi H, et al. **Clin Exp Dermatol** 1989 Mar;14(2):108–9

A double-blind clinical trial of fenticonazole (2%) spray versus naftifine (1%) spray in patients with cutaneous mycoses. Leiste D, et al. **Curr Med Res Opin** 1989; 11(9):567–75

Increasing usage of systemic antifungal agents. Walsh TJ, et al. **Diagn Microbiol Infect Dis** 1990 Jan–Feb;13(1):37–40

Comparative study of miconazole and clotrimazole in superficial mycosis. Saha KC. **Indian J Dermatol** 1989 Sep; 34(3):69–72

Case report and review of resolved fusariosis. Helm TN, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):393–8 (32 ref.)

The in vitro antifungal activity of ketoconazole, zinc pyrithione, and selenium sulfide against Pityrosporum and their efficacy as a shampoo in the treatment of experimental pityrosporosis in guinea pigs. Van Cutsem J, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):993–8

Comparative in-vivo activity of clotrimazole and a clotrimazole/hydrocortisone combination in the treatment of experimental dermatophytosis in guinea pigs. Shankland GS, et al. **J Antimicrob Chemother** 1990 May;25(5):825–30

Observations with Chinofungin powder. Pintér E, et al. **Ther Hung** 1989;37(3):151–3

[Treatment of fungus infections of the skin with tioconazole (Mykontral)] Haustein UF, et al. **Dermatol Monatsschr** 1989;175(12):751–6 (Eng. Abstr.) **(Ger)**

[Treatment of dermatomycoses] Brasch J. **Dtsch Med Wochenschr** 1990 Aug 24;115(34):1284–6 (21 ref.) **(Ger)**

[Urea treatment of mycoses] Nolting S. **Hautarzt** 1989;40 Suppl 9:76–7 (Eng. Abstr.) **(Ger)**

[Dermatomycoses relevant to general practice and their treatment] Schulz H. **Wien Med Wochenschr** 1989 Aug 31; 139(15–16):368–70 (Eng. Abstr.) **(Ger)**

[Mycoses of the skin—aspects of diagnosis and therapy] Hübner U. **Z Arztl Fortbild (Jena)** 1989;83(16):829–31 (9 ref.) **(Ger)**

[1% bifonazole lotion in the therapy of otomycosis] Piantoni S, et al. **Clin Ter** 1989 Jul 15;130(1):23–7 (Eng. Abstr.) **(Ita)**

[Current views on therapy of dermatomycoses] Allegra F. **G Clin Med** 1989 Aug–Sep;70(8–9):483–95 (14 ref.) **(Ita)**

[Evaluation of the efficacy of a new antimycotic molecule for topical use: naftifine] Albanese G, et al. **G Ital Dermatol Venereol** 1989 May; 124(5):XXXIII–XXXVII (Eng. Abstr.) **(Ita)**

[Fluconazole in the treatment of dermatomycoses. Clinical experience] Zucchi A, et al. **G Ital Dermatol Venereol** 1990 Feb;125(1–2):I–III (Eng. Abstr.) **(Ita)**

[The clinico-laboratory evaluation of the efficacy of the external treatment of microsporosis using a 5% mebetizol ointment] Fedotov VP, et al. **Vestn Dermatol Venerol** 1990; (4):59–62 (Eng. Abstr.) **(Rus)**

[Experience in treating patients with microsporosis of the smooth skin with involvement of the lanugo hair] Stepanova ZhV, et al. **Vestn Dermatol Venerol** 1990; (2):61–2 (Eng. Abstr.) **(Rus)**

[Dermatomycoses in Yugoslavia and the widespread use of the antifungicide Ecalin] Bokonjić M, et al. **Med Arh** 1988; 42(5–6):261–4 (Eng. Abstr.) **(Scr)**

EPIDEMIOLOGY

Study of medical mycology in India—an overview. Mohapatra LN. **Indian J Med Res** 1989 Nov;89:351–61 (51 ref.)

Dermatophyte fungi in the Guinea Savannah region of Nigeria and the changing phase of dermatophytosis in Nigeria. Obasi OE, et al. **Mycoses** 1989 Aug;32(8):381–5

Dermatophytes in healthy Chilians. Zaror L, et al. **Mycoses** 1990 Feb;33(2):95–8

[Epidemiological aspects of superficial mycoses] De Vroey C. **Ann Dermatol Venereol** 1989;116 Suppl 1:4–6 **(Fre)**

[The incidence of imported dermatophytes in Marseilles. Evaluation of 3 years' activity of a hospital mycology laboratory] Mestre-Deharo C, et al. **Ann Dermatol Venereol** 1989;116(6–7):489–90 **(Fre)**

[Prevalence of superficial cutaneous mycoses in the Mosan region] Rurangirwa A, et al. **Rev Med Liege** 1990 Feb 1; 45(2):69–74 **(Fre)**

[Ecology, epidemiology and clinical symptomatology of Microsporum gypseum infections] Ginter G. **Mycoses** 1989 Oct;32(10):531–5 (15 ref.) (Eng. Abstr.) **(Ger)**

[Dermatophyte flora in a catchment area of the Hamburg military hospital] Knöll R, et al. **Z Hautkr** 1989 Aug 15; 64(8):670, 675–6 (Eng. Abstr.) **(Ger)**

[The dynamics of dermatomycetes in the Bashkir ASSR in 1979–1987] Medvedeva EA, et al. **Vestn Dermatol Venerol** 1990;(2):58–60 (Eng. Abstr.) **(Rus)**

[Onychomycosis. Clinico-epidemiological mycological and therapeutic aspects] Arenas R. **Gac Med Mex** 1990 Mar–Apr;126(2):84–9; discussion 90–1 (27 ref.) (Eng. Abstr.) **(Spa)**

ETIOLOGY

Children with AIDS and skin manifestations [news] **Ann Allergy** 1990 Aug;65(2):A–38

Cutaneous aspergillosis. Kumar L, et al. **Indian J Pediatr** 1989 Nov–Dec;56(6):777–8

Cutaneous cladosporiosis as a complication of skin testing in a man positive for human immunodeficiency virus. Drabick JJ, et al. **J Am Acad Dermatol** 1990 Jan;22(1):135–6

Hyalohyphomycosis by Paecilomyces lilacinus in a renal transplant patient and a review of human Paecilomyces species infections. Castro LG, et al. **J Med Vet Mycol** 1990; 28(1):15–26 (51 ref.)

Cutaneous alternaria infection in a patient on chronic corticosteroids. Sneeringer RM, et al. **J Tenn Med Assoc** 1990 Jan;83(1):15–7 (12 ref.)

Keratinophilic fungi of school playgrounds in the Nablus area, West Bank of Jordan. Ali-Shtayeh MS. **Mycopathologia** 1989 May;106(2):103–8

[Skin changes in patients returning from the tropics] Stüttgen G. **Internist (Berl)** 1990 Jun;31(6):399–410 (20 ref.) **(Ger)**

[Cryptococcosis in patients with transplanted kidney treated with steroids and azathioprine] Juskowa J, et al. **Pol Arch Med Wewn** 1988 Aug–Sep;80(2–3):113–23 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Immunological resistance to dermatophyte infections. Dahl MV. **Adv Dermatol** 1987;2:305–20 (29 ref.)

METABOLISM

[Immunohistochemical studies in fungal diseases of skin] Tanuma H, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Aug; 99(9):1007–20 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Microscopy of skin scrapings for dermatophyte diagnosis. Cowen P. **Aust Fam Physician** 1990 May;19(5):685–90

Animal models for dermatomycotic infections. Van Cutsem J. **Curr Top Med Mycol** 1989;3:1–35 (100 ref.)

Fungi causing dermatophytosis in Lagos, Nigeria. Nwobu RA, et al. **East Afr Med J** 1990 Apr;67(4):246–9

Cutaneous phaeohyphomycosis caused by Exophiala jeanselmei after renal transplantation. Hachisuka H, et al. **Int J Dermatol** 1990 Apr;29(3):198–200

Cutaneous phaeohyphomycosis caused by a rare fungal pathogen, Hormonema dematioides: successful treatment with ketoconazole. Coldiron BM, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):363–7

Differentiation of three serovars of Malassezia furfur. Cunningham AC, et al. **J Appl Bacteriol** 1990 May; 68(5):439–46

Microbiology and potential virulence of Sporothrix cyanescens, a fungus rarely isolated from blood and skin. Sigler L, et al. **J Clin Microbiol** 1990 May;28(5):1009–15

Phaeohyphomycotic cyst caused by Tetraploa aristata. Markham WD, et al. **J Med Vet Mycol** 1990;28(2):147–50

Isolation of dysgonic strains of Microsporum canis in Bilbao (Spain). Sanchez J, et al. **J Med Vet Mycol** 1989;27(6):391–5

Pathogenicity of some Chrysosporium species isolated in France. Chabasse D, et al. **Mycopathologia** 1989 Jun; 106(3):171–7

An autochthonous phaeohyphomycotic nail infection in Canada caused by Hendersonula toruloidea. Kane J, et al. **Mycoses** 1990 Jan;33(1):37–40

The significance of Candida pulcherrima findings in human clinical specimens. Pospisil L. **Mycoses** 1989 Nov; 32(11):581–3

[Dermatomycoses as occupational diseases. The causative agents, sources of infection and the involved occupations] Zienicke H, et al. **Derm Beruf Umwelt** 1990 Mar–Apr; 38(2):42–9 (79 ref.) (Eng. Abstr.) **(Ger)**

[Dermatophyte infections caused by Microsporum canis and Microsporum audouinii in the Greifswald area] Schröder G, et al. **Dermatol Monatsschr** 1990;176(2–3):115–21 (Eng. Abstr.) **(Ger)**

[Demonstration and identification of fungi in dermatomycoses] Brasch J. **Dtsch Med Wochenschr** 1990 Aug 24;115(34):1280–3 (23 ref.) **(Ger)**

[Pathogens and pathogenesis of dermatophytoses] Brasch J. **Hautarzt** 1990 Jan;41(1):9–15 (106 ref.) (Eng. Abstr.) **(Ger)**

[The lipolytic activity of dermatophytes] Qadripur SA. **Wien Med Wochenschr** 1989 Aug 31;139(15–16):352–3 (Eng. Abstr.) **(Ger)**

[Tinea capitis in adults. Description of 3 cases] Cervetti O, et al. **G Ital Dermatol Venereol** 1990 Feb;125(1–2):27–8 (Eng. Abstr.) **(Ita)**

[A case of cutaneous localized cryptococcosis] Yamada Y, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Feb;100(2):205–9 (Eng. Abstr.) **(Jpn)**

[In vitro susceptibility of dermatophyte strains to imidazole derivatives] Bozkurt M, et al. **Mikrobiyol Bul** 1989 Jan; 23(1):64–70 (Eng. Abstr.) **(Tur)**

PATHOLOGY

Psoriatic patient presenting with perioral herpetiform lesions [letter] Bundy AT, et al. **Arch Dermatol** 1989 Oct; 125(10):1440–1

Skin surface electron microscopy in Pityrosporum folliculitis. The role of follicular occlusion in disease and the response to oral ketoconazole. Hill MK, et al. **Arch Dermatol** 1990 Aug;126(8):1071–4

Skin surface electron microscopy in Pityrosporum folliculitis. The role of follicular occlusion in disease and the response to oral ketoconazole. Hill MK, et al. **Arch Dermatol** 1990 Feb;126(2):181–4

Microsporum nanum. A review of the literature and a report of two cases. Mullins JF, et al. **Arch Dermatol** 1966 Sep; 94(3):300–3 (12 ref.)

Unilateral cutaneous emboli of Aspergillus. Watsky KL, et al. **Arch Dermatol** 1990 Sep;126(9):1214–7

Primary cutaneous aspergillosis mimicking dermatophytosis. Googe PB, et al. **Arch Pathol Lab Med** 1989 Nov; 113(11):1284–6

What the infectious disease subspecialist should know about dermatophytes. Feingold DS. **Curr Clin Top Infect Dis** 1987;8:154–68 (42 ref.)

Cutaneous cryptococcosis simulating Kaposi's sarcoma in the acquired immunodeficiency syndrome. Jones C, et al. **Cutis** 1990 Mar;45(3):163–7

Cutaneous mucormycosis. Umbert IJ, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1232–4

Disseminated coccidioidomycosis. Jitsukawa K, et al. **J Dermatol** 1990 Feb;17(2):120–6

Tissue changes in cryptococcosis: histologic alteration from gelatinous to suppurative granulomatous tissue response with asteroid body. Narisawa Y, et al. **Mycopathologia** 1989 May;106(2):113–9

Scabies, lice, and fungal infections. Taplin D, et al. **Prim Care** 1989 Sep;16(3):551–76 (24 ref.)

[Cutaneous manifestation of fungal infection] Rütten A, et al. **Hautarzt** 1990 Jul;41(7):392–3 (Eng. Abstr.) **(Ger)**

[Primary cutaneous granulomatous alternariosis] Wätzig V, et al. **Hautarzt** 1989 Nov;40(11):718–20 (Eng. Abstr.) **(Ger)**

[Rhinozygomycosis. Apropos of a case] Astorga Sell E, et al. **Med Cutan Ibero Lat Am** 1989;17(6):402–4 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Vaccines for the management of dermatophyte and superficial yeast infections. Segal E. **Curr Top Med Mycol** 1989;3:36–49 (77 ref.)

THERAPY

[Clinical studies of the possible antimycotic effects of the Helix pomatia lectin anti-AHP] Ziemer A, et al. **Dermatol Monatsschr** 1990;176(2–3):169–72 (Eng. Abstr.) **(Ger)**

TRANSMISSION

Family infections with dermatophytes: an overlooked problem? Crozier WJ, et al. **Australas J Dermatol** 1988; 29(3):147–50

Keratinophilic fungi on sheep hairs from the West Bank of Jordan. Ali-Shtayeh MS, et al. **Mycopathologia** 1989 May; 106(2):95–101

[Transmission of "barber's itch" by bathing?] Hengesbach B, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):110–6 (Eng. Abstr.) **(Ger)**

VETERINARY

Dermatophytes and keratinophilic fungi in cats and dogs. Caretta G, et al. **Mycoses** 1989 Dec;32(12):620–6

Streptothricosis in cattle on the coastal plains of Ghana: a

comparison of the disease in animals reared under two different management systems. Koney EB, et al. **Trop Anim Health Prod** 1990 May;22(2):89–94

DERMATOMYOSITIS

A woman with weakness and fatigue. Randall C. **J Tenn Med Assoc** 1989 Oct;82(10):540

Polymyositis–dermatomyositis: a clinical review. Strauss KW, et al. **Postgrad Med J** 1989 Jul;65(765):437–43 (68 ref.)

[Variants of the course of acute dermatomyositis] Zeligman VS, et al. **Sov Med** 1990;(4):118–20 **(Rus)**

BLOOD

Abnormalities in serum osteocalcin values in children with chronic rheumatic diseases. Reed A, et al. **J Pediatr** 1990 Apr;116(4):574–80

CHEMICALLY INDUCED

Polymyositis exacerbated by gemfibrozil [letter] Fusella J, et al. **J Rheumatol** 1990 Apr;17(4):572–3

COMPLICATIONS

Gastric carcinoma associated with dermatomyositis. Case report. Sakon M, et al. **Acta Chir Scand** 1989 Jun–Jul; 155(6–7):365–6

Thibierge–Weissenbach syndrome. Rozhold O, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;121:323–30

Interstitial lung disease in polymyositis and dermatomyositis. Clinical features and prognosis as correlated with histologic findings. Tazelaar HD, et al. **Am Rev Respir Dis** 1990 Mar; 141(3):727–33

Prognostic factors and predictive signs of malignancy in adult dermatomyositis. A study of 32 cases. Basset–Seguin N, et al. **Arch Dermatol** 1990 May;126(5):633–7

Dermatomyositis. Disease associations and an evaluation of screening investigations for malignancy. Cox NH, et al. **Arch Dermatol** 1990 Jan;126(1):61–5

Spontaneous regression of retinal neovascularisation in juvenile dermatomyositis. Fong LP, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):107–8

Dermatomyositis and malignancy. A multicenter cooperative study. Bonnetblanc JM, et al. **Dermatologica** 1990; 180(4):212–6

Endomyocardial fibrosis in dermatomyositis. Rossi MA. **Int J Cardiol** 1990 Jul;28(1):119–22

Dermatomyositis associated with multifocal lipoatrophy. Commens C, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 2):966–9

Trigeminal sensory neuropathy with dermatomyositis associated with a pancreatic malignancy [letter] Iriarte LM, et al. **J Rheumatol** 1990 Feb;17(2):276–7

Cyclophosphamide treatment of interstitial pulmonary fibrosis in polymyositis/dermatomyositis. al–Janadi M, et al. **J Rheumatol** 1989 Dec;16(12):1592–6

Acute renal failure associated with dermatomyositis and colon cancer. Park SK, et al. **Nephron** 1990;55(2):225–6

Metastatic non–seminomatous germ cell tumour and dermatomyositis. Barker RA, et al. **Postgrad Med J** 1990 Jan;66(771):59–60

[Porphyria cutanea tarda associated with pure cutaneous dermatomyositis] Belaïch S, et al. **Ann Dermatol Venereol** 1989;116(11):826–7 **(Fre)**

[Pneumothorax and pneumomediastinum associated with dermatomyositis] Gayraud M, et al. **Ann Med Interne (Paris)** 1989;140(6):490–1 **(Fre)**

[The association of dermatomyositis with cancer: myth or reality?] Gabay C, et al. **Schweiz Med Wochenschr** 1989 Aug 19;119(33):1119–23 (Eng. Abstr.) **(Fre)**

[Anesthetic management of a patient with dermatomyositis—clinical observation of the effect of muscle relaxants] Ueki M, et al. **Masui** 1989 Nov; 38(11):1505–8 (Eng. Abstr.) **(Jpn)**

[A case of dermatomyositis which rapidly developed to respiratory failure in the presence of pneumomediastinum] Kobayashi N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Jul;27(7):848–54 (16 ref.) (Eng. Abstr.) **(Jpn)**

[A case of immune–complex type glomerulonephritis associated with dermatomyositis] Moriyama T, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):994–5 **(Jpn)**

[Interstitial lung disease in systemic lupus erythematosus, progressive systemic sclerosis and dermatomyositis] Tokano Y, et al. **Nippon Rinsho** 1990 Mar;48(3):530–4 **(Jpn)**

DIAGNOSIS

Diagnosis and treatment of polymyositis and dermatomyositis. Targoff IN. **Compr Ther** 1990 Apr; 16(4):16–24 (30 ref.)

EMG dynamics in polymyositis and dermatomyositis in adults. Szmidt–Salkowska E, et al. **Electromyogr Clin Neurophysiol** 1989 Nov–Dec; 29(7–8):399–404

On paraneoplastic dermatomyositis—"the mask" of lung carcinoma, with a case contribution. Dimitrakov D, et al. **Folia Med (Plovdiv)** 1989;31(1):5–7

Skin lesions simulating chronic dermatomyositis during long–term hydroxyurea therapy. Richard M, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):797–9

Dermatomyositis presenting as panniculitis. Winkelman WJ, et al. **J Am Acad Dermatol** 1990 Jul;23(1):127–8

[Dermatomyositis as a paraneoplastic syndrome. A case report] Coenen C, et al. **Fortschr Med** 1989 Nov 20; 107(33):720–2 (Eng. Abstr.) **(Ger)**

[A 57–year–old patient with fatigue, proximally accentuated muscle weakness and patchy erythema] Bauriedel G, et al. **Internist (Berl)** 1990 Feb;31(2):153–8 **(Ger)**

[Paraneoplastic dermatomyositis in peritoneal mesothelioma] von Hirschhausen R, et al. **Med Klin** 1990 Mar;85 Suppl 1:113–5 **(Ger)**

[Dermatomyositis as a paraneoplastic syndrome] Quiel V. **Zentralbl Gynakol** 1990;112(7):451–4 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Is there a treatment for the calcinosis of juvenile dermatomyositis? Ansell B. **Br J Rheumatol** 1990 Aug; 29(4):263

Clinical effects of cyclosporin in dermatomyositis. Casato M, et al. **Clin Exp Dermatol** 1990 Mar;15(2):121–3

Calcinosis in childhood dermatomyositis [letter] Martínez–Cordero E, et al. **Clin Exp Rheumatol** 1990 Mar–Apr;8(2):198–200

Juvenile dermatomyositis treated with cyclosporine. Dantzig P. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):310–1

Treatment of duodenocutaneous fistula with somatostatin analog in a child with dermatomyositis. Inamdar S, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):402–4

Adjunctive use of hydroxychloroquine in childhood dermatomyositis. Olson NY, et al. **J Rheumatol** 1989 Dec; 16(12):1545–7

Intravenous immunoglobulin for polymyositis and dermatomyositis [letter] Cherin P, et al. **Lancet** 1990 Jul 14;336(8707):116

[Peliosis hepatis in dermatomyositis treated with azathioprine and corticoids] Lorcerie B, et al. **Rev Med Interne** 1990 Jan–Feb;11(1):25–8 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Predisposing factors in polymyositis–dermatomyositis: results of a nationwide survey. Lyon MG, et al. **J Rheumatol** 1989 Sep;16(9):1218–24

Evidence for seasonal variation in polymyositis. Manta P, et al. **Neuroepidemiology** 1989;8(5):262–5

ETIOLOGY

Dermatomyositis following chronic staphylococcal joint sepsis. Lane S, et al. **Ann Rheum Dis** 1990 Jun;49(6):405–6

Human immunodeficiency virus (HIV) infection–associated dermatomyositis [letter] Gresh JP, et al. **J Rheumatol** 1989 Oct;16(10):1397–8

[Physiopathogeny of dermatomyositis and polymyositis] Chérin P, et al. **Ann Med Interne (Paris)** 1990;141(2):156–9 **(Fre)**

[Myopathy in rheumatic diseases] Nakamura T, et al. **Nippon Rinsho** 1990 Jul;48(7):1528–32 **(Jpn)**

GENETICS

Juvenile dermatomyositis in first cousins [letter] Hennekam RC, et al. **N Engl J Med** 1990 Jul 19;323(3):199

IMMUNOLOGY

Low incidence of antinuclear antibodies in dermatomyositis with malignancy [letter] Nishikai M, et al. **Ann Rheum Dis** 1990 Jun;49(6):422

Autoantibodies in juvenile dermatomyositis. Montecucco C, et al. **Clin Exp Rheumatol** 1990 Mar–Apr;8(2):193–6

Polydermatomyositis with anti–PL7 antibody: clinical and laboratory follow–up over a five year period. Walker EJ, et al. **Clin Exp Rheumatol** 1989 Sep–Oct;7(5):537–40

Mechanism of the damaging effect of dermatomyositis mononuclear cells on cultured human skin fibroblasts. Saito E, et al. **J Rheumatol** 1989 Aug;16(8):1055–60

Immune effector mechanisms in inflammatory myopathies. Engel AG, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990; 68:141–57 (37 ref.)

[Antinuclear and anticytoplasmic antibodies in 24 cases of dermatomyositis. Value of western blotting] Meyer O, et al. **Ann Med Interne (Paris)** 1989;140(6):449–52 (Eng. Abstr.) **(Fre)**

[Spectrum of antinuclear and anti–cytoplasmic antibodies in dermatomyositis and polymyositis overlap syndromes] Meurer M, et al. **Hautarzt** 1989 Oct;40(10):623–9 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Tubuloreticular structures (TRS) and cylindric confronting cisternae (CCC) in childhood dermatomyositis. Fidziańska A, et al. **Acta Neuropathol (Berl)** 1989;79(3):310–6

Systemic lupus erythematosus, dermatomyositis, scleroderma, and vasculitic syndromes in children. Woo P. **Curr Opin Rheumatol** 1989 Oct;1(3):262–7 (28 ref.)

Relationship between capillary and muscle damage in dermatomyositis. Casademont J, et al. **Int J Dermatol** 1990 Mar;29(2):117–20

Early ultrastructural alterations in adult dermatomyositis. Capillary abnormalities precede other structural changes in muscle. De Visser M, et al. **J Neurol Sci** 1989 Dec; 94(1–3):181–92

Controversies in juvenile dermatomyositis [editorial] Malleson PN. **J Rheumatol** 1990 Jun;17(6):731–2

Controversies in juvenile dermatomyositis. Malleson PN. **J Rheumatol Suppl** 1990 Jun;23:1–2; discussion 3–6

Milk of calcium fluid collection in dermatomyositis: ultrasound findings. Hesla RB, et al. **Pediatr Radiol** 1990; 20(5):344–6

[Histopathologic aspects of polymyositis and dermatomyositis. Correlation with the clinical course. Study of 57 cases] Gayraud M, et al. **Ann Med Interne (Paris)** 1989;140(6):445–8 (34 ref.) (Eng. Abstr.) **(Fre)**

[Emergency states in systemic lupus erythematosus and polymyositis–dermatomyositis] Popović M, et al. **Vojnosanit Pregl** 1990 Mar–Apr;47(2):118–21 **(Scr)**

PHYSIOPATHOLOGY

Muscle regeneration and cell–mediated cytotoxicity in the autologous muscle culture of dermatomyositis. Hayashi Y, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):53–5

Microvascular changes in early and advanced dermatomyositis: a quantitative study. Emslie–Smith AM, et al. **Ann Neurol** 1990 Apr;27(4):343–56

Dermatomyositis and polymyositis in childhood. Gamstorp I. **Brain Dev** 1990;12(3):345–8 (8 ref.)

Quantitative EMG in inflammatory myopathy. Barkhaus PE, et al. **Muscle Nerve** 1990 Mar;13(3):247–53

[Neuromuscular blockade using vecuronium in dermatomyositis] Mair P, et al. **Anaesthesist** 1989 Nov; 38(11):626–8 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Radiological case of the month. Calcinosis universalis as a manifestation of dermatomyositis. Gwinn JL, et al. **Am J Dis Child** 1967 Jul;114(1):93–4

RADIONUCLIDE IMAGING

Detection of muscle necrosis in dermatomyositis by 111In–labelled antimyosin Fab fragments. De Geeter F, et al. **Nucl Med Commun** 1989 Aug;10(8):603–7

THERAPY

Carcinoma–associated dermatomyositis responding to plasmapheresis. Macpherson A, et al. **Clin Exp Dermatol** 1989 Jul;14(4):304–5

The use of intravenous immune globulin in collagen vascular disorders: a potentially new modality of therapy. Gelfand EW. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 2):613–5; discussion 615–6

[Treatment of polymyositis and dermatomyositis] Boudes P, et al. **Ann Med Interne (Paris)** 1989;140(6):459–61 (48 ref.) **(Fre)**

[Plasma exchange in dermatomyositis and polymyositis. Retrospective study of 38 cases of plasma exchange] Herson S, et al. **Ann Med Interne (Paris)** 1989;140(6):453–5 (15 ref.) (Eng. Abstr.) **(Fre)**

[Dramatic effects of high–dose intravenous gammaglobulin in each patient with intractable dermatomyositis and polymyositis] Morita R, et al. **No To Hattatsu** 1989 Nov; 21(6):523–8 (Eng. Abstr.) **(Jpn)**

[Plasma exchange in dermatology: apropos of a case of dermatomyositis] Millán Parrilla F, et al. **Med Cutan Ibero Lat Am** 1989;17(6):365–8 (Eng. Abstr.) **(Spa)**

DERMATOPHYTES

ANALYSIS

Sterols of fungi responsible for superficial skin and nail infection. Howell SA, et al. **J Gen Microbiol** 1990 Feb;136 (Pt 2):241–7

CLASSIFICATION

The superficial mycoses and the dermatophytes. Elewski BE, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):655–73 (33 ref.)

[Pathogens and pathogenesis of dermatophytoses] Brasch J. **Hautarzt** 1990 Jan;41(1):9–15 (106 ref.) (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

In vitro activity of terbinafine. Clayton YM. **Clin Exp Dermatol** 1989 Mar;14(2):101–3 (8 ref.)

The mechanism of action of terbinafine. Ryder NS. **Clin Exp Dermatol** 1989 Mar;14(2):98–100 (9 ref.)

In vitro activity of seven azole compounds against some clinical isolates of non–dermatophytic filamentous fungi and some dermatophytes. Oyeka CA, et al. **Mycopathologia** 1990 Jun;110(3):157–61

In vitro susceptibility of dermatophytes from Munich to griseofulvin, miconazole and ketoconazole. Korting HC, et al. **Mycoses** 1990 Mar;33(3):136–9

Antifungal effects of selenocystine and its derivatives on dermatophytes. Kunert J. **Mycoses** 1989 Jul;32(7):354–8

[In vitro antifungal spectrum of ciclopiroxolamine] Goudard M, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):621–3 (Eng. Abstr.) **(Fre)**

[In vitro action spectrum of a new antifungal agent derived from morpholine: amorolfin] Regli P, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):617–20 (Eng. Abstr.)

(Fre)

[Synthesis of phosphobetaine—a derivative of long-chain tertiary aliphatic amine with epichlorohydrin] Marcoin W. **Acta Pol Pharm** 1989;46(4):337–42 (Eng. Abstr.) (Pol)

[Antimicrobial properties of phenylheptatrienol in vitro and in vivo] Smirnov VV, et al. **Mikrobiol Zh** 1984 May–Jun; 46(3):7–10 (Eng. Abstr.) (Rus)

[In vitro susceptibility of dermatophyte strains to imidazole derivatives] Bozkurt M, et al. **Mikrobiyol Bul** 1989 Jan; 23(1):64–70 (Eng. Abstr.) (Tur)

ENZYMOLOGY

Purification and characterization of an extracellular proteinase from Hendersonula toruloidea. Rojanavanich V, et al. **Infect Immun** 1990 Sep;58(9):2856–61

[The lipolytic activity of dermatophytes] Qadripur SA. **Wien Med Wochenschr** 1989 Aug 31;139(15–16):352–3 (Eng. Abstr.) (Ger)

GROWTH & DEVELOPMENT

[Transmission of "barber's itch" by bathing?] Hengesbach B, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):110–6 (Eng. Abstr.) (Ger)

IMMUNOLOGY

Successful treatment of atopic dermatitis with complexes of allergen and specific antibodies [letter] Jacquemin MG, et al. **Lancet** 1990 Jun 16;335(8703):1468–9

[Action of sulconazole on Candida and dermatophyte antigens] Hearn VM. **Ann Dermatol Venereol** 1989;116 Suppl 1:13–5 (Fre)

ISOLATION & PURIFICATION

Fungi on the claws of buffalo and cow in Egypt. Abdel-Gawad KM. **J Basic Microbiol** 1989;29(6):323–8

Isolation of keratinophilic fungi from the dust of ferry boats and trains in Italy. Mercantini R, et al. **Mycoses** 1989 Nov; 32(11):590–4

Dermatophytes in healthy Chilians. Zaror L, et al. **Mycoses** 1990 Feb;33(2):95–8

Frequency of dermatophytes causing tinea corporis in Tripoli, Libya. Elghoul MT, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):418

[The incidence of imported dermatophytes in Marseilles. Evaluation of 3 years' activity of a hospital mycology laboratory] Mestre-Deharo C, et al. **Ann Dermatol Venereol** 1989;116(6–7):489–90 (Fre)

[Isolation and identification of dermatophytes] Meinhof W. **Int J Med Microbiol** 1990 Jun;273(2):229–45 (Ger)

[The dynamics of dermatomycetes in the Bashkir ASSR in 1979–1987] Medvedeva EA, et al. **Vestn Dermatol Venerol** 1990;(2):58–60 (Eng. Abstr.) (Rus)

PHYSIOLOGY

[The long-time survival of dermatophytes and moulds under paraffin oil] Schönborn C. **Mycoses** 1989 Jul;32(7):349–53 (Eng. Abstr.) (Ger)

DERMATOPLASTY see **SKIN TRANSPLANTATION**

DERMATOSCLEROSIS see **SCLERODERMA, CIRCUMSCRIBED**

DERMATOTOXINS see **DERMOTOXINS**

DERMOID see **DERMOID CYST**

DERMOID CYST

Intranasal dermoid cyst. Jaiswal SK. **J Indian Med Assoc** 1989 Dec;87(12):288

Huge pineal teratoma mimicking a dermoid cyst. Case report. Wakai S, et al. **Surg Neurol** 1989 Nov;32(5):372–6

[Hypercalcemia associated with malignant epidermoid degeneration of a dermoid cyst of the ovary (letter)] Beuzeboc P, et al. **Presse Med** 1990 Mar 10;19(9):429–30 (Fre)

COMPLICATIONS

A pedunculated lipodermoid in oculoauriculovertebral dysplasia. Ziavras E, et al. **Arch Ophthalmol** 1990 Jul; 108(7):1032–3

Spindle cell nodule and peptic ulcer arising in a fully developed gastric wall in a mature cystic teratoma. Sahin AA, et al. **Arch Pathol Lab Med** 1990 May;114(5):529–31

Benign cystic teratoma of the ovary rupturing into the rectum: a rare problem. Livesey SA, et al. **Br J Clin Pract** 1989 Feb;43(2):77–9

Glioblastoma multiform in a dermoid cyst of the ovary. Bjersing L, et al. **Eur J Gynaecol Oncol** 1989;10(6):389–92

Salmonellosis of benign cystic teratoma of ovary (a case report). Goyal A, et al. **Indian J Pathol Microbiol** 1987 Apr;30(2):123–6

Immature teratoma of the ovary grade 3, with karyotype analysis. King ME, et al. **Int J Gynecol Pathol** 1990; 9(2):178–84

Bilateral intranuclear ophthalmoplegia associated with fourth ventricular dermoid tumor. Tekkok IH, et al. **J Clin Neuro Ophthalmol** 1989 Dec;9(4):254–7

Sertoli-Leydig cell tumor associated with a mature cystic teratoma in a single ovary. Seidman JD, et al. **Mod Pathol** 1989 Nov;2(6):687–92

Klippel-Feil syndrome in association with a craniocervical dermoid cyst presenting as aseptic meningitis in an adult: case report. Diekmann-Guiroy B, et al. **Neurosurgery** 1989 Oct;25(4):652–5 (17 ref.)

Hyperprolactinemia in a patient with a pituitary and an ovarian dermoid tumor: case report. Klonoff DC, et al. **Neurosurgery** 1990 Feb;26(2):335–9

Chemical meningitis in ruptured intracranial dermoid. Case report and review of the literature. Lunardi P, et al. **Surg Neurol** 1989 Dec;32(6):449–52 (27 ref.)

Obstructive sleep apnoea due to a dermoid cyst of the floor of the mouth. Goldman JM, et al. **Thorax** 1990 Jan;45(1):76

[Benign presacral tumors as a cause of mechanical obstruction] Wolf G, et al. **Chirurg** 1989 Jul;60(7):488–91 (Ger)

[Early diagnosis of dermoid cysts in the treatment of sterility] Bernt WD, et al. **Zentralbl Gynakol** 1989;111(20):1379–81 (Eng. Abstr.) (Ger)

[Intra- and extradural congenital dermoid cyst with external communication as a cause of recurrent purulent meningitis] Simunović V, et al. **Med Arh** 1983;37(4):185–7 (Eng. Abstr.) (Scr)

CONGENITAL

Congenital dermoid cyst over the anterior fontanelle. Hayath S, et al. **Br J Clin Pract** 1989 Mar;43(3):119–20

Congenital dermoid cyst of the anterior tongue. Flom GS, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):388–91

The nasal dermoid. Frodel JL, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):392–6

[Retro-rectal cystic tumors of developmental origin in adults. Apropos of 2 cases] Leborgne J, et al. **Chirurgie** 1989; 115(8):565–71 (24 ref.) (Eng. Abstr.) (Fre)

[Inclusion dermoid cyst of the anterior fontanel region in adults: report of a case] Oliveira HA. **Arq Neuropsiquiatr** 1989 Sep;47(3):375–7 (Eng. Abstr.) (Por)

DIAGNOSIS

Subgaleal dermoid cyst of the anterior fontanelle: diagnosis with sonography. Stannard MW, et al. **AJNR** 1990 Mar–Apr;11(2):349–52

Lipomatous tumors of the pelvis in women: spectrum of imaging findings. Dodd GD 3d, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):317–22

Cystic teratomas of the pancreas. Mester M, et al. **Arch Surg** 1990 Sep;125(9):1215–8 (28 ref.)

The diagnosis of ruptured intracranial dermoid cysts. Jamjoom AB, et al. **Br J Neurosurg** 1989;3(5):609–12

Ovarian bilateral cystic teratomas: diagnosis and therapy in a young woman. Gargano G, et al. **Clin Exp Obstet Gynecol** 1990;17(1):37–42 (21 ref.)

Abnormally high values of CA 125 and CA 19-9 in women with benign tumors. Nagata H, et al. **Gynecol Obstet Invest** 1989;28(3):165–8

Dermoid cyst in the mouth: value of ultrasound. Thomas MR, et al. **J Laryngol Otol** 1990 Feb;104(2):141–2

Giant invasive intracerebral dermoid tumor with subependymoma-like reaction: case report. Fenstermaker RA, et al. **Neurosurgery** 1989 Oct;25(4):646–8

The use of magnetic resonance imaging in the diagnosis of the nasal dermal sinus-cyst. Fornadley JA, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):397–8

Posterior mediastinal cystic teratoma surrounded by fat in a 13 month old boy. Value of magnetic resonance imaging. Ruzal-Shapiro C, et al. **Pediatr Radiol** 1989;20(1–2):107–9

CT and MR appearance of multiple intracranial lesions associated with suprasellar dermoid cyst. Yamada S, et al. **Radiat Med** 1989 Nov–Dec;7(6):261–4

[Dermoid cyst of the floor of the mouth. Apropos of a case and a review of the literature] Ferran F, et al. **Ann Chir Plast Esthet** 1990;35(1):69–72 (25 ref.) (Eng. Abstr.) (Fre)

[Uncommon aspects of mediastinal teratoma. CT X-ray and MRI study] Husain A, et al. **J Radiol** 1989 Oct; 70(10):569–71 (Eng. Abstr.) (Fre)

[Evaluation of tumor marker in ovarian dermoid cyst] Mikuni M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 May; 42(5):479–84 (Eng. Abstr.) (Jpn)

[Ultrasonic examination in tumors of the abdominal cavity and retroperitoneal space in children] Sapozhnikov VG, et al. **Vopr Onkol** 1989;35(8):979–84 (Eng. Abstr.) (Rus)

[Retrovesical pelvic masses: diagnosis] Paniagua P, et al. **Actas Urol Esp** 1990 Mar–Apr;14(2):153–5 (Eng. Abstr.) (Spa)

GENETICS

Benign ovarian teratomas. An analysis of their cellular origin. Dahl N, et al. **Cancer Genet Cytogenet** 1990 May; 46(1):115–23

METABOLISM

Squamous cell carcinoma in situ developing in dermoid cyst of the ovary. Report of a case with laminin immunohistochemical staining demonstrating basement membrane integrity. Peuchmaur M, et al. **Pathol Res Pract** 1989 Aug;185(2):251–4; discussion 255–6

PARASITOLOGY

A filarial worm in the wall of a cystic teratoma of the ovary—(a case report). Sane SY, et al. **J Postgrad Med** 1989 Oct;35(4):217–8

PATHOLOGY

Bilateral parametrial mature teratomas. Rasmussen KC, et al. **Acta Obstet Gynecol Scand** 1989;68(3):277–8

Dermoid cyst of the auricle: report of two cases. Ikeda M, et al. **Auris Nasus Larynx** 1990;16(4):193–7

Congenital dermoid cysts over the anterior fontanel. Report on 13 cases in Czechoslovak children. Pařízek J, et al. **Childs Nerv Syst** 1989 Aug;5(4):234–7 (25 ref.)

Primary ovarian malignant amelanotic melanoma arising in cystic teratoma. Nanbu Y, et al. **Gynecol Oncol** 1990 Apr; 37(1):138–42

Osteosarcoma arising in a benign dermoid cyst of the ovary. Ngwalle KE, et al. **Gynecol Oncol** 1990 Apr;37(1):143–7 (13 ref.)

Pneumatosis cystoides-like lesions in ovary [letter; comment] **Histopathology** 1989 Oct;15(4):445–6 Comment on: Histopathology 1989 Apr;14(4):420–2.

Benign cystic monodermal teratoma of neurogenic type. Spaun E, et al. **Int J Gynecol Pathol** 1990;9(3):283–90

Midline sublingual dermoid cyst. al-Khayat M, et al. **J Laryngol Otol** 1990 Jul;104(7):578–80

Embryonal rhabdomyosarcoma arising in a mature teratoma of the testis: a case report. Terrier-Lacombe MJ, et al. **J Urol** 1990 Jun;143(6):1232–4 (8 ref.)

Prolactinoma in wall of ovarian dermoid cyst with hyperprolactinemia. Palmer PE, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):540–3

[A case of fetal sacro-coccygeal teratoma] Pace G, et al. **Pathologica** 1989 Nov–Dec;81(1076):651–60 (Eng. Abstr.) (Ita)

[A case of pedicle torsion of an ovarian dermoid cyst in a 1-year 7-month-old infant] Koike H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Dec; 41(12):2015–8 (10 ref.) (Jpn)

[Histological diagnosis of brain tumors: (9) Dermoid, epidermoid] Kobayashi T. **No Shinkei Geka** 1990 Feb; 18(2):115–20 (21 ref.) (Jpn)

[Extragonadal cystic teratoma: structural and histochemical analysis] Samar ME, et al. **Rev Fac Cien Med Univ Nac Cordoba** 1988;46(1):11–3 (Eng. Abstr.) (Spa)

RADIOGRAPHY

Cystic teratoma of the mediastinum: demonstration of fat/fluid level. Fulcher AS, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):259–60

A middle fossa arachnoid cyst in association with a suprasellar dermoid cyst. Chhang WH, et al. **Indian Pediatr** 1989 Aug;26(8):833–5

Intracerebral extension of nasal dermoid cyst: CT appearance. Uglietta JP, et al. **J Comput Assist Tomogr** 1989 Nov–Dec;13(6):1061–4

Fat-fluid level in pleural effusion as a complication of a mediastinal dermoid: CT characteristics. Yeoman LJ, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):307–9

Dermoid cyst of the scalp: intracranial extension. Crawford R. **J Pediatr Surg** 1990 Mar;25(3):294–5

Dermoid tumour of the fourth ventricle with hyperdense aspect demonstrated on CT scan. Case report. Dănăilă L, et al. **Neurol Psychiatr (Bucur)** 1989 Jul–Sep;27(3):231–6

[Dermoid cysts of the orbit spreading into the cranial cavity] Gabibov GA, et al. **Zh Vopr Neirokhir** 1989 Sep–Oct; (5):49–51 (Eng. Abstr.) (Rus)

RADIONUCLIDE IMAGING

131I ovarian uptake in a whole-body scan for thyroid carcinoma. Zwas ST, et al. **Semin Nucl Med** 1989 Oct; 19(4):340–2

SECRETION

Estrogen producing activity in epithelial ovarian tumors and dermoid cysts. Sekiguchi I, et al. **Asia Oceania J Obstet Gynaecol** 1989 Dec;15(4):367–74

[Lactating mammary tissue in a mature cystic teratoma of the ovary] Tsubura A, et al. **Gan No Rinsho** 1990 Mar; 36(4):532–6 (14 ref.) (Eng. Abstr.) (Jpn)

SURGERY

Intraspinal thoracolumbar dermoid. Case report. Buchwald C, et al. **Acta Neurochir (Wien)** 1989;101(3–4):163–4

Surgical treatment of intracranial dermoid and epidermoid cysts in children. Fornari M, et al. **Childs Nerv Syst** 1990 Mar;6(2):66–70

Ovarian bilateral cystic teratomas: diagnosis and therapy in a young woman. Gargano G, et al. **Clin Exp Obstet Gynecol** 1990;17(1):37–42 (21 ref.)

Cranial dermoid and epidermoid cysts. Ozgen T, et al. **Neurochirurgia (Stuttg)** 1990 Jan;33(1):16–9 (16 ref.)

Long-term results of the surgical treatment of spinal dermoid and epidermoid tumors. Lunardi P, et al. **Neurosurgery** 1989 Dec;25(6):860–4

Dermoid cysts of the posterior cranial fossa in children. Report of nine cases and review of the literature. Lunardi P, et al. **Surg Neurol** 1990 Jul;34(1):39–42 (28 ref.)

[Evaluation of benign ovarian tumour surgery] Lin ZQ.

Chung Hua Fu Chan Ko Tsa Chih 1989 Jul;24(4):228–30, 253 (Eng. Abstr.) **(Chi)**
[Para-pancreatic dermoid cyst] Jentschura D, et al. **Chirurg** 1990 Jul;61(7):548–9 **(Ger)**
[Recurrent abscess in correlation with a dermoid cyst] Huertgen M, et al. **Unfallchirurgie** 1989 Dec;15(6):314–5 (Eng. Abstr.) **(Ger)**
[A method of treatment of suppurative-inflammatory diseases of the sacrococcygeal region] Kostiukevich VN. **Klin Khir** 1990;(2):73 **(Rus)**
[Treatment of acute inflammation of perirectal teratoid cysts] Koplatadze AM, et al. **Vestn Khir** 1990 Feb;144(2):130–2 **(Rus)**

URINE

Trichouria due to benign retrovesical teratoma. Basu A, et al. **Br J Urol** 1990 Jun;65(6):659–60

VETERINARY

[Corneal dermoids and double malformation of the nostrils in a bull] Neophytou C. **Berl Munch Tierarztl Wochenschr** 1989 Dec 1;102(12):421–2 (Eng. Abstr.) **(Ger)**

DERMOTOXINS

GENETICS

Cloning and expression of the dermonecrotic toxin gene of Pasteurella multocida ssp. multocida in Escherichia coli. Kamps AM, et al. **FEMS Microbiol Lett** 1990 Jan 15; 55(1–2):187–90
Specificity of DNA probes for the detection of toxigenic Pasteurella multocida subsp. multocida strains. Kamps AM, et al. **J Clin Microbiol** 1990 Aug;28(8):1858–61
Sequence of the dermonecrotic toxin of Pasteurella multocida ssp. multocida. Buys WE, et al. **Nucleic Acids Res** 1990 May 11;18(9):2815–6

TOXICITY

[Morphological changes caused by the dermonecrosis factor of the causative agents of cholera and various other intestinal infections] Isupov IV, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):371–4 (Eng. Abstr.) **(Rus)**

DESCEMET'S MEMBRANE

ANALYSIS

The collagenous protein with elastin crosslinks from Descemet's membrane is not related to type VIII collagen. Davis PF, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):260–5

CYTOLOGY

The spatial organization of Descemet's membrane-associated type IV collagen in the avian cornea. Fitch JM, et al. **J Cell Biol** 1990 Apr;110(4):1457–68

DRUG EFFECTS

Management of detachment of Descemet's membrane caused by injection of hyaluronic acid. Ostberg A, et al. **Ophthalmic Surg** 1989 Dec;20(12):885–6

INJURIES

Endothelial repair of posterior corneal wounds in rabbits. Influence of foetal calf serum in the culture medium. Medin H, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):195–9

PATHOLOGY

Spontaneous detachment of Descemet's membrane. Case report and literature review. Morrison LK, et al. **Cornea** 1989 Dec;8(4):303–5

PHYSIOPATHOLOGY

Terrien's marginal degeneration with corneal cyst. Romanchuk KG, et al. **Cornea** 1990 Jan;9(1):86–7

ULTRASTRUCTURE

Characterization of the collagen in the hexagonal lattice of Descemet's membrane: its relation to type VIII collagen. Sawada H, et al. **J Cell Biol** 1990 Jan;110(1):219–27

DESENSITIZATION, IMMUNOLOGIC

Immunotherapy with alginate-conjugated two grass pollen extract in patients with allergic rhinoconjunctivitis. Tari MG, et al. **Allergol Immunopathol (Madr)** 1990 Jan–Feb; 18(1):35–40
Effect of immunotherapy on the production of IgE regulatory soluble factors. The response of normal lymphocytes. Tokushima M, et al. **Allergol Immunopathol (Madr)** 1990 Mar–Apr;18(2):63–8
Lymphocyte response to IgE regulatory factors in allergic patients during the course of immunotherapy. Tokushima M, et al. **Allergol Immunopathol (Madr)** 1990 Mar–Apr; 18(2):69–74
Who will benefit from hyposensitization? Predictive parameters in house dust mite allergic asthmatics. Mosbech H. **Allergy** 1990 Apr;45(3):209–12
Hyposensitization in asthmatics with mPEG modified and unmodified house dust mite extract. I. Clinical effect evaluated by diary cards and a retrospective assessment. Mosbech H, et al. **Allergy** 1989 Sep;44(7):487–98
Hyposensitization in asthmatics with mPEG modified and unmodified house dust mite extract. II. Effect evaluated by challenges with allergen and histamine. Mosbech H, et al. **Allergy** 1989 Sep;44(7):499–509
Effects of one-year hyposensitization in allergic rhinitis. Comparison of two house dust mite extracts. Pécoud A, et al. **Allergy** 1990 Jul;45(5):386–92
Desensitization to sulfonamides in patients with HIV infection. Torgovnick J, et al. **Am J Med** 1990 May; 88(5):548–9
Neurogenic inflammation, vascular permeability, and mast cells. Capsaicin desensitization fails to influence IgE-anti-DNP induced vascular permeability in rat airways. Didier A, et al. **Am Rev Respir Dis** 1990 Feb; 141(2):398–406
Improvement in the therapeutic efficacy of an asthma-inducing sea squirt antigen termed DIIIa by its polymerization in hyposensitization of sea squirt allergy. Shigeta S, et al. **Arerugi** 1990 Mar;39(3):313–21
Desensitisation today [letter] **BMJ** 1990 Aug 4;301(6746):293
Desensitisation today. Eiser N. **BMJ** 1990 Jun 2; 300(6737):1412–3 (23 ref.)
Conventional and new approaches to hyposensitization. de Weck AL. **Ciba Found Symp** 1989;147:254–9; discussion 259–63 (11 ref.)
Allergen injection immunotherapy (hyposensitization) on trial [clinical conference] Kay AB. **Clin Exp Allergy** 1989 Nov;19(6):591–6
Desensitization of delayed-type hypersensitivity in mice: possible involvement of interleukin 2-dependent regulatory mechanisms in desensitized mice. Kobayashi K, et al. **Clin Immunol Immunopathol** 1990 Jun;55(3):438–52
Indications for allergen immunotherapy during pregnancy. Metzger WJ. **Compr Ther** 1990 Mar;16(3):17–26
Drug allergy, immunotherapy, immune complexes and anaphylaxis. de Weck AL. **Curr Opin Immunol** 1989–90 Apr;2(4):548–57 (37 ref.)
Allergen immunotherapy. Ewan PW. **Curr Opin Immunol** 1989 Apr;1(4):672–8 (25 ref.)
A single dose desensitization for summer hay fever. Results of a double blind study-1988. Fell P, et al. **Eur J Clin Pharmacol** 1990;38(1):77–9
Lymphocyte-mediated inhibition of platelet cytotoxic functions during Hymenoptera venom desensitization: characterization of a suppressive lymphokine. Tsicopoulos A, et al. **Eur J Immunol** 1990 Jun;20(6):1201–7
Oral immunotherapy with grass pollen in enterosoluble capsules. A prospective study of the clinical and immunological response. Urbanek R, et al. **Eur J Pediatr** 1990 May;149(8):545–50
Beta-adrenoceptor desensitization in a model of experimental asthma in guinea-pigs. Daffonchio L, et al. **Eur Respir J Suppl** 1989 Jun;6:512s–515s
The relationships between late cutaneous responses and specific antibody responses with outcome of immunotherapy for seasonal allergic rhinitis. Parker WA Jr, et al. **J Allergy Clin Immunol** 1989 Nov;84(5 Pt 1):667–77
Venom immunotherapy in the Hymenoptera-allergic pregnant patient. Schwartz HJ, et al. **J Allergy Clin Immunol** 1990 Apr;85(4):709–12
Long-term effects of aspirin desensitization—treatment for aspirin-sensitive rhinosinusitis-asthma. Sweet JM, et al. **J Allergy Clin Immunol** 1990 Jan;85(1 Pt 1):59–65
Evolution of the late asthmatic reaction during immunotherapy and after stopping immunotherapy. Van Bever HP, et al. **J Allergy Clin Immunol** 1990 Aug; 86(2):141–6
Changes of serum-specific IgE antibody titer during hyposensitization in mite-sensitive asthmatic children. Tsai LC, et al. **J Asthma** 1990;27(2):95–100
"Treating through" hypersensitivity to cotrimoxazole in children with HIV infection [letter] Kreuz W, et al. **Lancet** 1990 Aug 25;336(8713):508–9
Transplant outcome of desensitized recipients after donor-specific transfusion. Okazaki H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):750–2
Desensitization—which renal allograft recipients are suitable? Thick M. **Transplant Proc** 1987 Feb;19(1 Pt 1):738–9
[Effects of desensitization and immunologic changes in patients with allergic asthma] Yang GM. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Dec; 12(6):359–60, 382 (Eng. Abstr.) **(Chi)**
[Logical treatment of tuberculoid and acute and subacute borderline lepromatous neuritis. Progressive desensitization using lepromin] Saint-André P, et al. **Acta Leprol** 1989; 7(1):73–4 **(Fre)**
[Specific immunotherapy using the slow alpha fraction of Dermatophagoides pteronyssinus. Efficacy; tolerance] Sabbah A, et al. **Allerg Immunol (Paris)** 1989 Nov; 21(9):344–51 (Eng. Abstr.) **(Fre)**
[Evolution of in vivo and in vitro tests during specific immunotherapy against hymenoptera venoms] Sabbah A, et al. **Allerg Immunol (Paris)** 1990 Jun;22(6):242–7 (Eng. Abstr.) **(Fre)**
[Possibilities and limitations of hyposensitization treatment in airway allergies] Wahn U. **Ther Umsch** 1989 Sep; 46(9):625–32 (43 ref.) (Eng. Abstr.) **(Ger)**
[Clinical trial in a child population with bronchial asthma] Mancini S, et al. **Minerva Pediatr** 1989 Jul;41(7):359–62 (Eng. Abstr.) **(Ita)**
[Allergy to Hymenoptera venom in children. Diagnosis and therapy] Pastorello EA, et al. **Minerva Pediatr** 1989 Aug; 41(8):419–23 (Eng. Abstr.) **(Ita)**
[Results of immunotherapy with HDM (Bencard) in children with bronchial asthma] Matoga S, et al. **Pediatr Pol** 1989 Mar;64(3):167–72 (Eng. Abstr.) **(Pol)**
[Desensitization in drug allergy] Patkowski J. **Pol Tyg Lek** 1989 Jul 3;44(27):627–31 (36 ref.) **(Pol)**
[Hyperreactivity of the bronchial tree in patients with hay fever before and after immunotherapy] Wrzyszcz M, et al. **Pol Tyg Lek** 1989 Jul 3;44(27):635–7 (Eng. Abstr.) **(Pol)**
[Hemosorption in the treatment of aspirin-induced bronchial asthma] Didkovskiĭ NA,, et al. **Klin Med (Mosk)** 1989 Dec; 67(12):40–4 (Eng. Abstr.) **(Rus)**
[Experience with the treatment of pollinosis in children with vilozen] Moshchich PS, et al. **Pediatriia** 1990;(3):47–50 **(Rus)**
[Desensitization to sulfadiazine in patients with AIDS and opportunistic infection (letter)] Fraj Lázaro J, et al. **Rev Clin Esp** 1989 Jul–Aug;185(3):167 **(Spa)**

ADVERSE EFFECTS

Hyposensitization in asthmatics with mPEG-modified and unmodified house dust mite extract. IV. Occurrence and prediction of side effects. Mosbech H, et al. **Allergy** 1990 Feb;45(2):142–50
Nodules following hay fever desensitizing injections [letter] Verbov JL. **Clin Exp Dermatol** 1989 Jul;14(4):332
Cutaneous granulomata complicating desensitization. Wakeel RA, et al. **Clin Exp Dermatol** 1990 Jan;15(1):37–8
Safety of allergen immunotherapy [editorial] Norman PS. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 1):438–9
[Systemic side effects in immunotherapy of allergic diseases—a comparative study] Wekkeli M, et al. **Wien Klin Wochenschr** 1989 Oct 13;101(19):639–52 (105 ref.) (Eng. Abstr.) **(Ger)**
[Comment on the article: Hyposensitization therapy—quo vadis? (letter)] Kompa HE. **Z Hautkr** 1990 Jul;65(7):645–6 **(Ger)**

METHODS

Current status of allergen immunotherapy (hyposensitization). Report of a WHO/IUIS working Group. **Allerg Immunol (Leipz)** 1989;35(4):235–47 (62 ref.)
Comparative clinical-immunological study of oral and subcutaneous immunotherapy in children with extrinsic bronchial asthma. Sánchez Palacios A, et al. **Allergol Immunopathol (Madr)** 1989 Nov–Dec;17(6):323–9
The current status of allergen immunotherapy (hyposensitisation). Report of a WHO/IUIS working group. **Allergy** 1989 Aug;44(6):369–79 (63 ref.)
Hyposensitization in asthmatics with mPEG-modified and unmodified house dust mite extract. III. Effect on mite-specific immunological parameters and correlation to changes in mite-sensitivity and symptoms. Mosbech H, et al. **Allergy** 1990 Feb;45(2):130–41
Predictive value of venom-specific IgE, IgG and IgG subclass antibodies in patients on immunotherapy with honey bee venom. Müller U, et al. **Allergy** 1989 Aug; 44(6):412–8
Specific IgE and IgG antibody responses in children to timothy pollen components during immunotherapy. Nordvall SL, et al. **Allergy** 1989 Aug;44(6):380–4
Blocking activity of mite-specific IgG antibodies studied by skin tests. Pecquet C, et al. **Allergy** 1989 Aug;44(6):427–31
Short-term decrease of skin-test sensitivity after rush desensitization in Hymenoptera venom hypersensitivity. Tsicopoulos A, et al. **Clin Exp Allergy** 1990 May; 20(3):289–94
Immunotherapy with monomethoxypolyethylene glycol modified allergens. Dreborg S, et al. **Crit Rev Ther Drug Carrier Syst** 1990;6(4):315–65 (218 ref.)
Diagnosis and immunotherapy of mould allergy. With special reference to Cladosporium herbarum. Malling HJ. **Dan Med Bull** 1990 Feb;37(1):12–22
Allergen immunotherapy in allergic respiratory disease in childhood. Kumar L. **Indian J Pediatr** 1989 Jul–Aug; 56(4):473–8 (8 ref.)
Immunotherapy in allergic respiratory diseases. Vervloet D, et al. **Lung** 1990;168 Suppl:1013–24 (69 ref.)
[Status report on allergen immunotherapy (hyposensitisation). Prepared by the WHO/IUIS Immunotherapy Subcommittee 1988] Malling HJ. **Ugeskr Laeger** 1989 Nov 27;151(48):3249–52 **(Dan)**
[Accelerated desensitization with Dermatophagoides pteronyssinus in severe asthmatic children. Evaluation after one year of immunotherapy] Paty E, et al. **Arch Fr Pediatr** 1990 Mar;47(3):173–9 (Eng. Abstr.) **(Fre)**
[Current aspects of hyposensitization] Albegger K. **HNO** 1990 Jul;38(7):233–41 (78 ref.) (Eng. Abstr.) **(Ger)**
[The clinical significance of anti-IgE antibodies in the treatment of allergic rhinopathy] Loidolt D, et al. **Laryngorhinootologie** 1990 May;69(5):255–9 (Eng. Abstr.) **(Ger)**
[Hyposensitization in bronchial asthma—still a current

therapeutic procedure? (see comments)] Baur X. **Med Klin** 1989 Sep 15;84(9):439–44 (Eng. Abstr.) Comment in: Med Klin 1989 Sep 15;84(9):459–60. (Ger)
[Hyposensitization in asthma—between belief and certainty (comment)] Nolte D. **Med Klin** 1989 Sep 15;84(9):459–60 Comment on: Med Klin 1989 Sep 15;84(9):439–44. (Ger)
[Recommendations for hyposensitization with allergen extracts. Medical Society of German Allergologists] Sennekamp J, et al. **Med Monatsschr Pharm** 1989 Oct; 12(10):315–8 (5 ref.) (Ger)
[Hyposensitization in pollinosis. Results of a 3-year controlled study with 2 depot-allergoid grass pollen extracts: aluminum hydroxide-adsorbed allergoid and tyrosine-adsorbed allergoid] Mühlethaler K, et al. **Schweiz Rundsch Med Prax** 1990 Apr 3;79(14):430–6 (Eng. Abstr.) (Ger)
[Experiences with desensitization of early spring pollen allergy using 2 tree pollen extracts] Henzgen M, et al. **Z Gesamte Inn Med** 1989 Nov 15;44(22):691–3 (Eng. Abstr.) (Ger)
[Rush immunotherapy of perennial allergic rhinitis] Ito K. **Arerugi** 1989 Nov;38(11):1246–54 (Eng. Abstr.) (Jpn)
[The enhanced efficacy of specific hyposensitization in patients with recurrent uveitis] Savko VV, et al. **Oftalmol Zh** 1989;(8):481–4 (Eng. Abstr.) (Rus)
[Effect of various methods of immunocorrective therapy in children with allergic dermatoses and dermato-respiratory syndrome on the incidence of intercurrent viral infections] Ermakova MK. **Pediatriia** 1990;(5):112 (Rus)

VETERINARY

Experience with hyposensitization [letter] Schultz K, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):1910–1
Effect of immunotherapy on the serum concentrations of allergen-specific IgG antibodies in dog sera. Hites MJ, et al. **Vet Immunol Immunopathol** 1989 Aug;22(1):39–51

DESENSITIZATION (PSYCHOLOGY) see under **BEHAVIOR THERAPY**

DESERT CLIMATE

Water metabolism in the Namib Desert golden mole, Eremitalpa granti namibensis (Chrysochloridae). Fielden LJ, et al. **Comp Biochem Physiol [A]** 1990;96(1):227–34
Scientific expedition "Tunisia '89" [editorial] **Funct Neurol** 1990 Jan–Mar;5(1):85–6
Root mass and vertical root distribution of five semi-arid plant species. Reynolds TD. **Health Phys** 1990 Feb; 58(2):191–7
Animal production in the desert. Morag M, et al. **Int J Biometeorol** 1972;16 Suppl:43–52
Aspects of hormonal control of osmoregulation in desert marsupials. Bradshaw SD. **Prog Clin Biol Res** 1990; 342:516–21 (12 ref.)
[Amebiasis in Transcaucasia and in mountainous desert locales] Krukovskii BV, et al. **Arkh Patol** 1989;51(10):70–4 (Eng. Abstr.) (Rus)
[Characteristics of human body temperature regulation and the functional activity of the skin thermoreceptors during seasonal adaptation to the high temperature of an arid zone] Khudalberdiev MD, et al. **Fiziol Cheloveka** 1989 Jul–Aug; 15(4):87–91 (Rus)
[Elevated skin temperature as a criterion of adaptation to the high temperature of an arid zone] Khudalberdiev MD. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):78–82 (Rus)
[The dynamics of visual analyzer sensitivity under industrial conditions in an arid zone] Sadiko GN, et al. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):107–11 (Rus)
[Rapid control over the functional state of the kidneys during long marches on foot across deserts] Milovidov ZN, et al. **Voen Med Zh** 1989 Sep;(9):39–41 (Rus)
[The migration of radionuclides from global fallout in the trophic chains of biogeocenoses in arid zones] Krivolutskii DA, et al. **Zh Obshch Biol** 1989 Sep–Oct;50(5):595–605 (Eng. Abstr.) (Rus)

DESFERRIOXAMINE see **DEFEROXAMINE**

DESICCATION

see related
FREEZE DRYING

The effect of prolonged drying on transepidermal water loss, capacitance and pH of human vulvar and forearm skin. Elsner P, et al. **Acta Derm Venereol (Stockh)** 1990; 70(2):105–9
Comparative evaluation of three in vacuo dessication procedures on bacterial cultures. Burlacu E, et al. **Arch Roum Pathol Exp Microbiol** 1989 Jan–Mar; 48(1):65–78
Fixation and drying of DNA sequencing gels on glass plates. Prasher D, et al. **Biotechniques** 1990 Apr;8(4):391–3
Structural conversions of crystallins under senile cataract, dehydration and UV-irradiation studied by X-ray diffraction. Krivandin AV, et al. **Exp Eye Res** 1989 Nov; 49(5):853–9
Dehydration of hydrogen contact lenses in vitro and in vivo. Efron N, et al. **Ophthalmic Physiol Opt** 1988;8(3):253–6
Destruction of bovine coccidial oocysts in simulated cattle yards by dry tropical winter weather. Parker RJ, et al. **Vet Parasitol** 1990 Mar;35(3):269–72
[Resistance to desiccation of Biomphalaria glabrata adults infested by various miracidia of Schistosoma mansoni] Lancastre F, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun; 84(2):205–12 (Eng. Abstr.) (Fre)
[Practical results and their importance for spreading chloride emissions through heat generation and fertilizer drying] Ponsold B. **Z Gesamte Hyg** 1990 Apr;36(4):206–9 (Eng. Abstr.) (Ger)
[The effect of drying on the content of nucleic acids and mutational changes in microorganisms] Demina NS, et al. **Biol Nauki** 1989;(8):87–95 (Eng. Abstr.) (Rus)
[A mini-exsiccator—a flask with a ground-glass cover for cultivating cells and tissues] Nizamov RS. **Lab Delo** 1990; (2):75–6 (Rus)
[Effect of dehydration of heat-induced restructuring of the cytoplasm membrane of yeast cells] Timoshin AA, et al. **Mikrobiologiia** 1989 Jul–Aug;58(4):679–80 (Eng. Abstr.) (Rus)

DESICKLING AGENTS see **ANTISICKLING AGENTS**

DESIGN, EQUIPMENT see **EQUIPMENT DESIGN**

DESIGNER DRUGS

see related
STREET DRUGS

Opioids and designer drugs. Ford M, et al. **Emerg Med Clin North Am** 1990 Aug;8(3):495–511 (149 ref.)
The design and synthesis of mimetics of peptide beta-turns. Kahn M, et al. **J Mol Recognit** 1988 Apr;1(2):75–9
Designer drugs—the "whats" and the "whys". Chesher G. **Med J Aust** 1990 Aug 6;153(3):157–61
Synthesis of fentanyl analogs. Carroll FI, et al. **NIDA Res Monogr** 1989;95:497–8
Psychostimulant properties of MDMA. Gold LH, et al. **NIDA Res Monogr** 1989;95:345–6
Comparison of the behavioral and neurochemical effects of 5,7-DHT, MDMA and D,L-fenfluramine. Lorens SA, et al. **NIDA Res Monogr** 1989;95:347
Responses to i.v. L-tryptophan in MDMA users. Price LH, et al. **NIDA Res Monogr** 1989;95:421–2
[Ice—a new designer drug (letter)] Ornskov F. **Ugeskr Laeger** 1990 Apr 9;152(15):1100–1 (Dan)
[Synthetic drugs of abuse, the second generation (designer drugs). 1. Amphetamine and other arylalkane amines] Kovar KA, et al. **Pharm Unserer Zeit** 1990 May; 19(3):99–107 (37 ref.) (Ger)
[Neurologic complications of drug addiction. General aspects. Complications caused by cannabis, designer drugs and volatile substances] Farre Albaladejo M. **Arch Neurobiol (Madr)** 1989;52 Suppl 1:143–8 (27 ref.) (Eng. Abstr.) (Spa)

CHEMICAL SYNTHESIS

Contamination of clandestinely prepared drugs with synthetic by-products. Soine WH. **NIDA Res Monogr** 1989;95:44–50 (33 ref.)

PHARMACOLOGY

Pharmacology and toxicology of amphetamine and related designer drugs. **NIDA Res Monogr** 1989;94:1–357
Stimulus properties of hallucinogenic phenalkylamines and related designer drugs: formulation of structure-activity relationships. Glennon RA. **NIDA Res Monogr** 1989; 94:43–67 (31 ref.)
Neurochemical mechanisms involved in behavioral effects of amphetamines and related designer drugs. Gold LH, et al. **NIDA Res Monogr** 1989;94:101–26 (75 ref.)
Self-injection in baboons of amphetamines and related designer drugs. Sannerud CA, et al. **NIDA Res Monogr** 1989;94:30–42 (38 ref.)
Acute and subchronic effects of methylenedioxymethamphetamine [(+/-)MDMA] on locomotion and serotonin syndrome behavior in the rat [published erratum appears in Pharmacol Biochem Behav 1989 Nov;34(3):679] Spanos LJ, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):835–40

TOXICITY

Second thoughts on 3,4-methylenedioxymethamphetamine (MDMA) neurotoxicity [letter; comment] Grob C, et al. **Arch Gen Psychiatry** 1990 Mar;47(3):288–9 Comment on: Arch Gen Psychiatry 1989 Jan;46(1):20–2.
Neurochemistry and neurotoxicity of 3,4-methylenedioxymethamphetamine (MDMA, "ecstasy"). McKenna DJ, et al. **J Neurochem** 1990 Jan; 54(1):14–22 (64 ref.)
Reserpine does not prevent 3,4-methylenedioxymethamphetamine-induced neurotoxicity in the rat. Hekmatpanah CR, et al. **Neurosci Lett** 1989 Sep 25;104(1–2):178–82
Pharmacology and toxicology of amphetamine and related designer drugs. **NIDA Res Monogr** 1989;94:1–357
Recommendations for future research on amphetamines and related designer drugs. Fuller RW. **NIDA Res Monogr** 1989;94:341–57
Role of dopamine in the neurotoxicity induced by amphetamines and related designer drugs. Gibb JW, et al. **NIDA Res Monogr** 1989;94:161–78 (25 ref.)
Structure-activity relationships of MDMA-like substances. Nichols DE, et al. **NIDA Res Monogr** 1989;94:1–29 (49 ref.)

DESIPRAMINE

ADMINISTRATION & DOSAGE

The drug-free period: a methodological issue. Asnis GM, et al. **Biol Psychiatry** 1990 Mar 15;27(6):657–60
Comparison of amantadine and desipramine combined with psychotherapy for treatment of cocaine dependence. Weddington WW, et al. **NIDA Res Monogr** 1989;95:483–4
A comparison of triiodothyronine and thyroxine in the potentiation of tricyclic antidepressants. Joffe RT, et al. **Psychiatry Res** 1990 Jun;32(3):241–51

ADVERSE EFFECTS

Simulation of acute myocardial infarction by desipramine hydrochloride. Borganelli M, et al. **Am Heart J** 1990 Jun; 119(6):1413–4
Safety of desipramine [letter; comment] **J Am Acad Child Adolesc Psychiatry** 1989 Nov;28(6):964–5 Comment on: J Am Acad Child Adolesc Psychiatry 1989 May;28(3):376–9.
Combining fluoxetine with desipramine [letter] DeMaso DR, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jan; 29(1):151
Sudden death in children treated with a tricyclic antidepressant. **Med Lett Drugs Ther** 1990 Jun 1;32(819):53
Drug-drug interactions of fluoxetine with tricyclics. von Ammon Cavanaugh S. **Psychosomatics** 1990 Summer; 31(3):273–6
Ventricular tachycardia associated with desipramine and thioridazine. Wilens TE, et al. **Psychosomatics** 1990 Winter; 31(1):100–3

ANALOGS & DERIVATIVES

Molecular and particulate depositions for regional myocardial flows in sheep. Bassingthwaighte JB, et al. **Circ Res** 1990 May;66(5):1328–44
Determination of serum desipramine and 2-hydroxydesipramine for pharmacokinetic applications by HPLC with ultraviolet detection. Kenney JT, et al. **Clin Chem** 1989 Oct;35(10):2134–6

ANALYSIS

A new powerful association for immunoassay: organometallic label conjugated to solvent separation method. Mariet F, et al. **Res Commun Chem Pathol Pharmacol** 1990 May; 68(2):251–62

ANTAGONISTS & INHIBITORS

1-(3-Trifluoromethylphenyl) piperazine (TFMPP) in the ventral tegmental area reduces the effect of desipramine in the forced swimming test in rats: possible role of serotonin receptors. Cervo L, et al. **Eur J Pharmacol** 1989 Nov 14;171(1):119–25
Alpha 2-adrenoceptor blockade prevents the effect of desipramine in the forced swimming test. Cervo L, et al. **Eur J Pharmacol** 1990 Jan 17;175(3):301–7

BLOOD

Increase in desipramine serum levels associated with methadone treatment. Maany I, et al. **Am J Psychiatry** 1989 Dec;146(12):1611–3
Determination of serum desipramine and 2-hydroxydesipramine for pharmacokinetic applications by HPLC with ultraviolet detection. Kenney JT, et al. **Clin Chem** 1989 Oct;35(10):2134–6
A double-blind placebo controlled study of desipramine in the treatment ADD: II. Serum drug levels and cardiovascular findings. Biederman J, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):903–11
Determination of lofepramine and desipramine using high-performance liquid chromatography and electrochemical detection. Virgili P, et al. **J Chromatogr** 1989 Nov 10;496(1):228–33
[Plasma desipramine levels and clinical response in patients with major depression. Results in agreement with a curvilinear relationship (letter)] Bertschy G, et al. **Therapie** 1989 Sep–Oct;44(5):376–7 (Fre)

DIAGNOSTIC USE

Neuroendocrine challenge tests in depression: a study of growth hormone, TRH and cortisol release. Barry S, et al. **J Affective Disord** 1990 Apr;18(4):229–34
Alpha-2 adrenergic receptor function in post-stroke depression. Barry S, et al. **Psychol Med** 1990 May; 20(2):305–9

METABOLISM

Kinetic properties of the metabolism of imipramine and desipramine in isolated rat hepatocytes. Chiba M, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):367–72
Quinidine inhibits the 2-hydroxylation of imipramine and desipramine but not the demethylation of imipramine.

Brøsen K, et al. **Eur J Clin Pharmacol** 1989;37(2):155–60
Pharmacokinetic correlation between in vitro hepatic microsomal enzyme kinetics and in vivo metabolism of imipramine and desipramine in rats. Chiba M, et al. **J Pharm Sci** 1990 Apr;79(4):281–7
Stable isotope coadministration methodology for the estimation of the fraction of imipramine metabolized to desipramine. Sasaki Y, et al. **J Pharm Sci** 1990 Feb; 79(2):96–8
Inhibition of desipramine 2-hydroxylation by quinidine and quinine in rapid and slow debrisoquine hydroxylators. Spina E, et al. **Psychopharmacol Ser** 1989;7:201–5 (21 ref.)
[Methoxyflurane and ethanol do not inhibit the neuronal uptake of noradrenaline (uptake 1) at the desipramine binding site] Kress HG, et al. **Anaesthesist** 1990 Jul; 39(7):371–4 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Formation of cytotoxic metabolites from phenytoin, imipramine, desipramine, amitriptyline and mianserin by mouse and human hepatic microsomes. Riley RJ, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1951–8
Comparative plasma levels of doxepin and desipramine in the elderly. Gosselin C, et al. **Can J Psychiatry** 1989 Dec; 34(9):921, 923–4
Clinical pharmacokinetics of imipramine and desipramine. Sallee FR, et al. **Clin Pharmacokinet** 1990 May;18(5):346–64 (149 ref.)
The influence of the route of administration of imipramine on imipramine and desipramine blood levels. Rigal J, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):364–7
Pharmacokinetics of desipramine in Asian and Caucasian volunteers. Pi EH, et al. **Psychopharmacol Bull** 1989; 25(3):483–7
Effect of fluoxetine pretreatment on plasma and tissue concentrations of desipramine in rats. Fuller RW, et al. **Res Commun Chem Pathol Pharmacol** 1989 Dec; 66(3):375–84

PHARMACOLOGY

Effects of desipramine on norepinephrine clearance in congestive heart failure. Clemson B, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):E261–5
Effects of desipramine hydrochloride on peripheral sympathetic nerve activity. Cohen MD, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R876–82
Desipramine and its 2-hydroxy metabolite in patients taking or not taking methadone [letter] Kosten TR, et al. **Am J Psychiatry** 1990 Oct;147(10):1379–80
Desipramine potentiates anesthetic and lethal effects of ketamine [letter] Ashleigh EA, et al. **Anesth Analg** 1990 May;70(5):571–2
Some effects of desmethylimipramine and amitriptyline on the schedule-controlled behavior of pigeons and rats. Lamb RJ, et al. **Arch Int Pharmacodyn Ther** 1989 Nov–Dec; 302:49–67
Single and multiple desipramine exposures of cultured cells. Changes in cellular anisotropy and in lipid composition of whole cells and of plasma membranes. Toplak H, et al. **Biochem Pharmacol** 1990 May 1;39(9):1437–43
REM sleep suppression by monoamine reuptake blockade: development of tolerance with repeated drug administration. Ross RJ, et al. **Biol Psychiatry** 1990 Aug 1;28(3):231–9
Inhibition of the adrenergic phenotype in cultured neural crest cells by norepinephrine uptake inhibitors. Sieber-Blum M. **Dev Biol** 1989 Dec;136(2):372–80
Schedule-induced oral self-administration of cocaine and ethanol solutions: lack of effect of chronic desipramine. Tang M, et al. **Drug Alcohol Depend** 1990 Feb;25(1):21–5
The role of the mesolimbic dopaminergic system in the desipramine effect in the forced swimming test. Cervo L, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):129–33
Picrotoxin changes the effects of imipramine and desipramine in rats in the forced swimming test. Fernández-Teruel A, et al. **Eur J Pharmacol** 1990 May 31;181(1–2):35–41
Beta-adrenoceptor and post-receptor components show different rates of desensitization to desipramine. Tiong AH, et al. **Eur J Pharmacol** 1990 Jun 12;188(6):411–5
Effects of chronic exposure to ethanol alone and in combination with desipramine on beta-adrenoceptors of rat brain. Turkka J, et al. **Eur J Pharmacol** 1990 Feb 27; 177(3):171–9
Uptake, metabolism, and release of [3H]-histamine by glial cells in primary cultures of chicken cerebral hemispheres. Huszti Z, et al. **GLIA** 1990;3(3):159–68
Desipramine blocks augmented neurogenic vasoconstrictor responses to epinephrine. Floras JS, et al. **Hypertension** 1990 Feb;15(2):132–9
Effect of desipramine on a glycoprotein sialyltransferase activity in C6 cultured glioma cells. Broquet P, et al. **J Neurochem** 1990 Feb;54(2):388–94
Single and combined effects of desimipramine and lithium on serotonergic receptor number and second messenger function in rat brain. Newman ME, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):826–31
Antidepressant actions on brain noradrenergic neurons. Valentino RJ, et al. **J Pharmacol Exp Ther** 1990 May; 253(2):833–40
Desipramine or cyproheptadine for reversing chloroquine resistance? [letter; comment] [see comments] Basco LK, et al. **Lancet** 1990 Feb 17;335(8686):422 Comment on: Lancet 1989 Nov 25;2(8674):1282–3. Comment in: Lancet 1990 May 12;335(8698):1155.
Desipramine and cyproheptadine for reversal of chloroquine resistance in Plasmodium falciparum [letter; comment] [see comments] Bitonti AJ, et al. **Lancet** 1989 Nov 25; 2(8674):1282–3 Comment on: Lancet 1989 Aug 5;2(8658):334–5. Comment in: Lancet 1990 Feb 17;335(8686):422.
Desipramine reversal of chloroquine resistance in wild isolates of Plasmodium falciparum [letter] Salama A, et al. **Lancet** 1990 Jan 20;335(8682):164–5
Open channel block of NMDA receptor responses evoked by tricyclic antidepressants. Sernagor E, et al. **Neuron** 1989 Mar;2(3):1221–7
Desipramine in small doses induces antinociception in the increasing temperature hot-plate test, but not in the tail-flick test. Lund A, et al. **Neuropharmacology** 1989 Nov; 28(11):1169–73
The effects of a potential antidepressant, 2,4-dimethyl-5-(3-fluorophenyl)-3H-1,2,4-triazole-3-thione, in an electrophysiological model responsive to desipramine. Sorensen SM, et al. **Neuropharmacology** 1990 Jun;29(6):555–60
Intrathecal administration of thiorphan, bestatin, desipramine and fluoxetine differentially potentiate the antinociceptive effects induced by beta-endorphin and morphine, administered intracerebroventricularly. Suh HH, et al. **Neuropharmacology** 1990 Mar;29(3):207–14
Neuroendocrine response to clomipramine and desipramine—the evidence of partial determination by heredity and sex. Filip V, et al. **Neuropsychobiology** 1989; 21(3):111–6
Effects of corticotropin releasing factor, desipramine and haloperidol on a DRL schedule of reinforcement. Britton KT, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):967–70
GABAergic mechanisms in the nucleus accumbens septi regulating rat motor activity: the effect of chronic treatment with desipramine. Plaznik A, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):501–6
The influence of antidepressive treatment on GABA-related mechanisms in the rat hippocampus: behavioral studies. Ploźnik A, et al. **Pharmacol Biochem Behav** 1989 Aug; 33(4):749–53
Restraint stress-induced changes in saccharin preference: the effect of antidepressive treatment and diazepam. Ploźnik A, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):755–9
Evaluation of alprazolam-induced behavioural effects: differences with chlordiazepoxide after interaction with desipramine and rolipram, a cAMP phosphodiesterase inhibitor. Cannizzaro G, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:53–4
Influence of desipramine on the contractile responses to noradrenaline, clonidine and to electrical field stimulation in the rat isolated seminal vesicle. Wali FA, et al. **Pharmacol Res** 1990 Mar-Apr;22(2):125–31
The effects of desipramine (DMI) and electroconvulsive shock (ECS) on the function of the hypothalamo-pituitary-thyroid axis in the rat. Atterwill CK, et al. **Psychoneuroendocrinology** 1989;14(5):339–46
Effects of bromocriptine and desipramine on behavior maintained by cocaine or food presentation in rhesus monkeys. Kleven MS, et al. **Psychopharmacology (Berl)** 1990;101(2):208–13
Effect of desipramine treatment on pulmonary phospholipid metabolism in rats. Yano T, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun; 68(3):353–63
Reversal of drug-resistant falciparum malaria by calcium antagonists: potential for host cell toxicity. Watt G, et al. **Trans R Soc Trop Med Hyg** 1990 Mar-Apr;84(2):187–90
Effect of an inhibitor of noradrenaline uptake, desipramine, on cell proliferation in the intestinal crypt epithelium. Tutton PJ, et al. **Virchows Arch [B]** 1989;57(6):349–52
[Ethanol-induced discriminative stimulus properties in inbred rats with reference to aspirin, indomethacin and desipramine] Suzuki T, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Dec;24(6):490–503 (Eng. Abstr.) **(Jpn)**
[Effects in animal models of depression of lisuride alone and upon coadministration with antidepressants] Nakamura K, et al. **Nippon Yakurigaku Zasshi** 1989 Jul;94(1):81–9 (Eng. Abstr.) **(Jpn)**

POISONING

Myocardial toxicity produced by desipramine overdosage. Chahine RA, et al. **Chest** 1971 May;59(5):566–8

THERAPEUTIC USE

Antidepressants in the treatment of PTSD [letter; comment] Frank JB, et al. **Am J Psychiatry** 1990 Feb;147(2):260 Comment on: Am J Psychiatry 1989 Apr;146(4):513–6.
Antidepressants in 'depressed' schizophrenic inpatients. A controlled trial. Kramer MS, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):922–8
Treatment of obsessive-compulsive disorder with clomipramine and desipramine in children and adolescents. A double-blind crossover comparison. Leonard HL, et al. **Arch Gen Psychiatry** 1989 Dec;46(12):1088–92
A study of the effects of desipramine treatment alone and in combination with L-triiodothyronine on 6-sulphatoxymelatonin excretion in depressed patients. Bearn J, et al. **Br J Psychiatry** 1989 Sep;155:341–7
Desipramine relieves postherpetic neuralgia. Kishore-Kumar R, et al. **Clin Pharmacol Ther** 1990 Mar;47(3):305–12
Treatment response of high cognitive dysfunction depressed inpatients. Miller IW, et al. **Compr Psychiatry** 1990 Jan-Feb;31(1):62–71
Does melancholia predict response in major depression? Nelson JC, et al. **J Affective Disord** 1990 Mar;18(3):157–65
A double-blind placebo controlled study of desipramine in the treatment of ADD: I. Efficacy. Biederman J, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Sep;28(5):777–84
Effects of desipramine maintenance on cocaine self-administration by humans. Fischman MW, et al. **J Pharmacol Exp Ther** 1990 May;253(2):760–70
Cardiac beta-adrenergic sensitivity in depression: relation with endogenous subtype and desipramine response. Bertschy G, et al. **Neuropsychobiology** 1989;21(4):177–81
Desipramine treatment of cocaine abuse in methadone maintenance patients. Arndt I, et al. **NIDA Res Monogr** 1989;95:322–3
Desipramine treatment for relapse prevention in cocaine dependence. McElroy SL, et al. **NIDA Res Monogr** 1989; 95:57–63
Fluoxetine and desipramine: a strategy for augmenting anti-depressant response. Eisen A. **Pharmacopsychiatry** 1989 Nov;22(6):272–3
Antidepressant or antianxiety? A study of the efficacy of antidepressant medication. Kravitz HM, et al. **Psychiatry Res** 1990 May;32(2):141–9

TOXICITY

The effect of antidepressants on immune function in mice. Eisen JN, et al. **Biol Psychiatry** 1989 Dec;26(8):805–17

DESITRIPTYLINE see **NORTRIPTYLINE**

DESLANOSIDE see under **LANATOSIDES**

DESMETHYLAMITRIPTYLIN see **NORTRIPTYLINE**

DESMETHYLIMIPRAMINE see **DESIPRAMINE**

DESMIN

Assembly properties of two CNBr fragments of avian desmin that correspond to the headpiece domain and helix 1B. Saeed T, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1059–66

ANALYSIS

So-called fibroepithelial polyps of the vagina exhibiting an unusual but uniform antigen profile characterized by expression of desmin and steroid hormone receptors but no muscle-specific actin or macrophage markers. Hartmann CA, et al. **Am J Clin Pathol** 1990 May; 93(5):604–8
Antidesmin antibodies. Their use in diagnostic pathology [comment] Ordóñez NG. **Am J Clin Pathol** 1990 Mar; 93(3):430–1 (14 ref.) Comment on: Am J Clin Pathol 1990 Mar;93(3):305–14.
The diagnostic utility of desmin. A study of 584 cases and review of the literature [see comments] Truong LD, et al. **Am J Clin Pathol** 1990 Mar;93(3):305–14 (80 ref.) Comment in: Am J Clin Pathol 1990 Mar;93(3):430–1.
Alveolar rhabdomyosarcoma. Demonstration of the muscle type of intermediate filament protein, desmin, as a diagnostic aid. Miettinen M, et al. **Am J Pathol** 1982 Aug; 108(2):246–51
Heterogeneity of polyoma tumors in hamsters: analysis of cytoskeletal proteins and viral gene expression. Combette JM, et al. **Int J Cancer** 1990 Mar 15;45(3):521–8
Immunofluorescent, immunogold, and electrophoretic studies for desmin in embryonic hearts of normal and cardiac mutant Mexican axolotls, Ambystoma mexicanum. Shen PS, et al. **J Morphol** 1989 Sep;201(3):243–52
Immunocytochemical localization of desmin at human neuromuscular junctions. Askanas V, et al. **Neurology** 1990 Jun;40(6):949–53
An immunohistochemical study of canine tissues with vimentin, desmin, glial fibrillary acidic protein, and neurofilament antisera. Vos JH, et al. **Zentralbl Veterinarmed [A]** 1989 Oct;36(8):561–75
[Immunocytochemical diagnosis of embryonal rhabdomyosarcoma of the orbit] Holbach L, et al. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):190–5 (Eng. Abstr.) **(Ger)**

BIOSYNTHESIS

Desmin and titin expression in early postimplantation mouse embryos. Schaart G, et al. **Development** 1989 Nov; 107(3):585–96
[Modulation of cardiac contractility in myogenesis using antidesmin monoclonal antibody] Muros MA, et al. **Rev Esp Cardiol** 1990 May;43(5):323–7 (Eng. Abstr.) **(Spa)**

GENETICS

Expression of intermediate filament proteins during development of Xenopus laevis. II. Identification and molecular characterization of desmin. Herrmann H, et al.

Development 1989 Feb;105(2):299–307
Assignment of the mouse desmin gene to chromosome 1 band C3. Li ZL, et al. **Genet Res** 1990 Apr;55(2):101–5
Expression of desmin gene in skeletal and smooth muscle by in situ hybridization using a human desmin gene probe. Boimont C, et al. **J Submicrosc Cytol Pathol** 1990 Jan; 22(1):117–22

IMMUNOLOGY

Human monoclonal antibody derived from an autoimmune thrombocytopenic purpura patient, recognizing an intermediate filament's determinant common to vimentin and desmin. Varon D, et al.
Clin Immunol Immunopathol 1990 Mar;54(3):454–68
Monoclonal antibody to desmin purified from cow Purkinje fibers reveals a cell-type specific determinant. Virtanen I, et al. **FEBS Lett** 1990 Jul 2;267(1):176–8

METABOLISM

Variable expression of desmin in rat glomerular epithelial cells. Yaoita E, et al. **Am J Pathol** 1990 Apr;136(4):899–908
Fluorescent measurement of desmin intermediate filament assembly. Ip W, et al. **Anal Biochem** 1990 Feb 15; 185(1):10–6
Immunohistochemical analysis for desmin in normal and neoplastic ovarian stromal tissue. Lastarria D, et al.
Arch Pathol Lab Med 1990 May;114(5):502–5
Intermediate filaments in smooth muscle from pregnant and non-pregnant human uterus. Leoni P, et al. **Biochem J** 1990 Jul 1;269(1):31–4
Myotubular myopathy: arrest of morphogenesis of myofibres associated with persistence of fetal vimentin and desmin. Four cases compared with fetal and neonatal muscle. Sarnat HB. **Can J Neurol Sci** 1990 May;17(2):109–23
Immunofluorescence and immunogold electron microscopy of desmin in isolated adult heart myocytes of the rat. Saetersdal T, et al. **Histochemistry** 1989;92(6):467–73
Expression of desmin and myoglobin in rhabdomyosarcomas and in developing skeletal muscle. Carter RL, et al.
Histopathology 1989 Dec;15(6):585–95
Lectin binding and desmin expression during necrosis, regeneration, and neurogenic atrophy of human skeletal muscle. Helliwell TR, et al. **J Pathol** 1989 Sep;159(1):43–51
Intermediate filament proteins immunologically related to desmin in astrocytes: a study of chicken spinal cord by two-dimensional gel electrophoresis and immunoblotting. Dahl D, et al. **Neurochem Res** 1989 Oct;14(10):1013–6
Rhabdomyosarcoma in childhood. An immunohistological analysis with myoglobin, desmin and vimentin. Kodet R. **Pathol Res Pract** 1989 Aug;185(2):207–13
Human immunodeficiency virus type 1 protease cleaves the intermediate filament proteins vimentin, desmin, and glial fibrillary acidic protein. Shoeman RL, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(16):6336–40
[Immunocytochemical studies on the appearance and distribution of desmin during myogenesis in the embryos of Cynops orientalis] Ding XY.
Shih Yen Sheng Wu Hsueh Pao 1989 Jun;22(2):225–35 (Eng. Abstr.) **(Chi)**

ULTRASTRUCTURE

The two coiled coils in the isolated rod domain of the intermediate filament protein desmin are staggered. A hydrodynamic analysis of tetramers and dimers. Potschka M, et al. **Eur J Biochem** 1990 Jul 5;190(3):503–8

DESMOLASES see **LYASES**

DESMOPRESSIN

ADMINISTRATION & DOSAGE

Consistency of responses to repeated DDAVP infusions in patients with von Willebrand's disease and hemophilia A. Rodeghiero F, et al. **Blood** 1989 Nov 1;74(6):1997–2000
Intranasal desmopressin (DDAVP) by spray in mild hemophilia A and von Willebrand's disease type I. Lethagen S, et al. **Blut** 1990 Mar;60(3):187–91
DDAVP does not reduce bleeding during spinal fusion for idiopathic scoliosis. Guay J, et al. **Can J Anaesth** 1990 May; 37(4 Pt 2):S14
[Clinical evaluation of 2 new formulations of desmopressin (DDAVP), nasal spray and tablets, in the therapy of diabetes insipidus] Gelli D, et al. **Minerva Endocrinol** 1989 Oct–Dec;14(4):227–32 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

von Willebrand's variant (type II Buffalo).
Thrombocytopenia after desmopressin but absence of in vitro hypersensitivity to ristocetin. Sweeney JD, et al.
Am J Clin Pathol 1990 Apr;93(4):522–5
Severe hyponatremia after repeated intravenous administration of desmopressin. Weinstein RE, et al.
Am J Hematol 1989 Dec;32(4):258–61
Platelet aggregation and pseudothrombocytopenia induced by 1-desamino-8-D-arginine vasopressin (DDAVP) in type IIB von Willebrand's disease patient. Casonato A, et al. **Eur J Haematol** 1990 Jul;45(1):36–42
Hyponatremia and seizures during desmopressin acetate treatment in hypothyroidism [letter; comment] Salvatoni A, et al. **J Pediatr** 1990 May;116(5):835–6 Comment on: J Pediatr 1989 Mar;114(3):470–2.
Dangers of intranasal desmopressin for nocturnal enuresis [letter] Bamford MF, et al. **J R Coll Gen Pract** 1989 Aug; 39(325):345–6

ANALOGS & DERIVATIVES

V2-like receptors mediate cerebral blood flow increase following vasopressin administration in rats. Koźniewska E, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):579–85

DIAGNOSTIC USE

Epinephrine and dDAVP administration in patients with congenital nephrogenic diabetes insipidus. Evidence for a pre-cyclic AMP V2 receptor defective mechanism. Bichet DG, et al. **Kidney Int** 1989 Nov;36(5):859–66
Fibrinolytic response in normal subjects to venous occlusion and DDAVP infusion. Cugno M, et al. **Thromb Res** 1989 Dec 1;56(5):625–34
[Plasminogen deficiencies in 2 Spanish families. Response to the administration of DDAVP] Tabernero MD, et al.
Sangre (Barc) 1990 Apr;35(2):137–41 (Eng. Abstr.) **(Spa)**

METABOLISM

AVP and dDAVP in rabbit cortical collecting tubule: a comparative time-course study. Leite M Jr, et al.
Am J Physiol 1990 Jan;258(1 Pt 2):R99–103
Degradation of [mercaptopropionic acid1, D-arginine8]-vasopressin (dDAVP) in pancreatic juice and intestinal mucosa homogenate. Lundin S, et al.
Pharmacol Toxicol 1989 Aug;65(2):92–5

PHARMACOKINETICS

Permeability of the respiratory tract to different-sized macromolecules after intratracheal instillation in young and adult rats. Folkesson HG, et al. **Acta Physiol Scand** 1990 Jun;139(2):347–54

PHARMACOLOGY

Desmopressin is a potent vasorelaxant of aorta and pulmonary artery isolated from rabbit and rat. Johns RA.
Anesthesiology 1990 May;72(5):858–64
DDAVP-induced release of von Willebrand factor from endothelial cells in vitro: the effect of plasma and blood cells. Hashemi S, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):63–70
DDAVP shortens the prolonged bleeding times of patients with severe von Willebrand disease treated with cryoprecipitate. Evidence for a mechanism of action independent of released von Willebrand factor. Cattaneo M, et al. **Blood** 1989 Nov 1;74(6):1972–5
Desmopressin induces adhesion of normal human erythrocytes to the endothelial surface of a perfused microvascular preparation. Tsai HM, et al. **Blood** 1990 Jan 1;75(1):261–5
Effects of [1-desamino-8-D-arginine]vasopressin and papaverine on rabbit renal pelvis. Kimoto Y, et al.
Eur J Pharmacol 1990 Jan 17;175(3):359–62
Comparison of the effects of dDAVP and AVP on the sodium transport in the frog skin. Bakoš P, et al.
Gen Physiol Biophys 1990 Feb;9(1):71–81
L-histidine augments the response to 1-deamino-8-D-arginine vasopressin in Brattleboro homozygous (di/di) rats. Charnogursky G, et al.
J Clin Invest 1990 Mar;85(3):921–8
Effect of some peptides on dopaminergic function in man. Lal S, et al. **J Neural Transm Suppl** 1990;29:173–81
Fibrinolytic responses to 1-desamino-8-D-arginine-vasopressin in patients with congenital nephrogenic diabetes insipidus. Knoers N, et al. **Nephron** 1990;54(4):322–6
Dose-dependent effects of DDAVP on memory in healthy young adult males: a preliminary study. Beckwith BE, et al. **Peptides** 1990 May–Jun;11(3):473–6
Plasma exchange donation of cryoprecipitate after DDAVP stimulation: an alternative source of factor VIII. McLeod BC, et al. **Prog Clin Biol Res** 1990;324:189–98
Desmopressin, but not vasopressin, decreases activity of the hypothalamo-neurohypophysial system in Brattleboro rats. Kadekaro M, et al. **Regul Pept** 1990 Apr 24;28(2):153–9
Additive effect of dDAVP and standard heparin in increasing plasma t-PA. Agnelli G, et al. **Thromb Haemost** 1989 Jun 30;61(3):507–10
Desmopressin reverses effects of dextran on von Willebrand factor [letter] Flordal PA, et al. **Thromb Haemost** 1989 Jun 30;61(3):541
Different tissue plasminogen activator release in the arm and leg during venous occlusion is equalized after DDAVP infusion. Keber D, et al. **Thromb Haemost** 1990 Feb 19; 63(1):72–5
DDAVP induces systemic release of urokinase-type plasminogen activator. Levi M, et al. **Thromb Haemost** 1989 Sep 29;62(2):686–9
Desmopressin induces decrease in platelet serotonin content in uremia [letter] Małyszko J, et al. **Thromb Haemost** 1989 Jun 30;61(3):537
Effect of propranolol, barbiturate anesthesia and splenectomy on factor VIII:C and plasminogen activator release induced by DDAVP. An experimental study on the dog. Pina-Cabral JM, et al. **Thromb Haemost** 1989 Sep 29; 62(2):784–7
Effect of exercise, DDAVP, and epinephrine on the factor VIII:C/von Willebrand factor complex in normal dogs and von Willebrand factor deficient Doberman pinscher dogs. Meyers KM, et al. **Thromb Res** 1990 Jan 1;57(1):97–108
Factor XII activation after DDAVP [letter] Patrassi GM, et al. **Thromb Res** 1990 Jun 1;58(5):531–2
Pharmacologic agents in the management of bleeding disorders. Bolan CD, et al. **Transfusion** 1990 Jul–Aug; 30(6):541–51 (130 ref.)
[Effect of vasopressin and its analogs on blood coagulation in rats] Golubeva MG, et al. **Fiziol Zh** 1990 May–Jun; 36(3):25–30 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Use of DDAVP in inherited and acquired platelet dysfunction. DiMichele DM, et al. **Am J Hematol** 1990 Jan;33(1):39–45
Desmopressin and bleeding [letter; comment] Bidstrup BP, et al. **Anaesthesia** 1989 Dec;44(12):1009 Comment on: Anaesthesia 1989 Apr;44(4):363–4.
Desmopressin: a nontransfusional hemostatic agent. Mannucci PM. **Annu Rev Med** 1990;41:55–64 (39 ref.)
The effect of desmopressin on massive gastrointestinal bleeding in hereditary telangiectasia unresponsive to treatment with cryoprecipitate. Quitt M, et al.
Arch Intern Med 1990 Aug;150(8):1744–6
Use of desmopressin in the management of aspirin-related and intractable haemorrhage after cardiopulmonary bypass. Chard RB, et al. **Aust N Z J Surg** 1990 Feb;60(2):125–8 (13 ref.)
DDAVP for type IIB von Willebrand disease [letter] Fowler WE, et al. **Blood** 1989 Oct;74(5):1859–60
Response of patients with hemophilia A and von Willebrand disease to desmopressin (DDAVP). Santiago-Borrero PJ, et al. **Bol Asoc Med P R** 1990 May;82(5):207–10
Perioperative management of patients with von Willebrand's disease. Cameron CB, et al. **Can J Anaesth** 1990 Apr; 37(3):341–7 (30 ref.)
Desmopressin acetate in uncomplicated coronary artery bypass surgery: a prospective randomized clinical trial [see comments] Hedderich GS, et al. **Can J Surg** 1990 Feb; 33(1):33–6 Comment in: Can J Surg 1990 Feb;33(1):5–6.
Desmopressin: do we now know its role? [comment] Tyers GF. **Can J Surg** 1990 Feb;33(1):5–6 Comment on: Can J Surg 1990 Feb;33(1):33–6.
Effects of desmopressin acetate on platelet aggregation, von Willebrand factor, and blood loss after cardiac surgery with extracorporeal circulation. Andersson TL, et al.
Circulation 1990 Mar;81(3):872–8
Response to desmopressin in type IID von Willebrand's disease. Thomas N, et al. **Clin Lab Haematol** 1989; 11(3):189–97
Desmopressin acetate in postoperative bleeding. Smith RC.
DICP 1990 May;24(5):475–6 (16 ref.)
Study on mechanisms of a haemostatic effect of 1 deamino-8-D-arginine vasopressin (desmopressin) in uraemic patients. Małyszko J, et al.
Folia Haematol (Leipz) 1990;117(2):319–24
1-Deamino-8-D-arginine vasopressin in the treatment of non-haemophilic patients with acquired factor VIII inhibitor. Muhm M, et al. **Haemostasis** 1990;20(1):15–20
Clinical use of vasopressin analogues. Robertson GL, et al.
Hosp Pract [Off] 1989 Oct 15;24(10):114–8, 126–8, 133 passim (10 ref.)
The use of desmopressin in the management of two patients with von Willebrand's disease undergoing periodontal surgery. 2 case reports. Petrover MG, et al.
J Periodontol 1990 Apr;61(4):239–42
Any value for desmopressin acetate (DDAVP) in cardiopulmonary bypass operation? [letter; comment] LoCicero J 3d, et al. **J Thorac Cardiovasc Surg** 1990 May; 99(5):945 Comment on: J Thorac Cardiovasc Surg 1989 Aug;98(2):217–9.
Desmopressin for nocturnal enuresis.
Med Lett Drugs Ther 1990 Apr 20;32(816):38–9
Desmopressin and surgical hemostasis [letter; comment] N **Engl J Med** 1990 Apr 12;322(15):1085–6 Comment on: N Engl J Med 1989 Nov 23;321(21):1437–43.
A trial of desmopressin (1-desamino-8-D-arginine vasopressin) to reduce blood loss in uncomplicated cardiac surgery [see comments] Hackmann T, et al.
N Engl J Med 1989 Nov 23;321(21):1437–43 Comment in: N Engl J Med 1990 Apr 12;322(15):1085–6.
Intravenous desmopressin acetate in children with sickle trait and persistent macroscopic hematuria. Baldree LA, et al.
Pediatrics 1990 Aug;86(2):238–43
Use of DDAVP and cryoprecipitate in mild to moderate haemophilia A and von Willebrand's disease. Berry EW.
Prog Clin Biol Res 1990;324:269–78
Desmopressin: a new principle for symptomatic treatment of urgency and incontinence in patients with multiple sclerosis. Kinn AC, et al. **Scand J Urol Nephrol** 1990; 24(2):109–12
The role of desmopressin in reducing blood loss during lumbar fusions. Johnson RG, et al. **Surg Gynecol Obstet** 1990 Sep;171(3):223–6
Arginine vasopressin versus desmopressin for the treatment of diabetes insipidus in the brain dead organ donor. Debelak L, et al. **Transplant Proc** 1990 Apr;22(2):351–2
[Treatment of enuresis with desmopressin (letter)] Johnsen O. **Ugeskr Laeger** 1990 Jun 25;152(26):1912–3 **(Dan)**
[DDAVP (1-desamino-8-D-arginine vasopressin)]

Nørgaard JP, et al. **Ugeskr Laeger** 1989 Nov 13; 151(46):3091–2 **(Dan)**

[Enuresis nocturna—a proposed compromise (letter)] Wille S. **Ugeskr Laeger** 1990 Jun 25;152(26):1913–4 **(Dan)**

[Enuresis nocturna (letter)] Zachau-Christiansen B. **Ugeskr Laeger** 1990 Mar 26;152(13):930–1 **(Dan)**

[Normalization of bleeding time using desmopressin in amylosis (letter)] Schillinger F, et al. **Presse Med** 1989 Oct 21;18(34):1712 **(Fre)**

[Application of DDAVP for hemostatic control in platelet dysfunctions] Hattori A. **Rinsho Ketsueki** 1990 Jan; 31(1):1–9 (45 ref.) **(Jpn)**

[Prophylactic use of DDAVP in a patient with von Willebrand disease during labor: a case report and a review] Miki T, et al. **Rinsho Ketsueki** 1990 Mar;31(3):325–9 (Eng. Abstr.) **(Jpn)**

[Availability of DDAVP in hemostasis control for the breast tumor resection in a patient with thrombasthenia (type II)] Ohishi K, et al. **Rinsho Ketsueki** 1990 Apr;31(4):468–73 (Eng. Abstr.) **(Jpn)**

[DDAVP administration in a case of congenital combined factor V and factor VIII deficiency] Takai Y, et al. **Rinsho Ketsueki** 1989 Nov;30(11):2035–40 (Eng. Abstr.) **(Jpn)**

[Desmopressin is effective in difficult-to-control nocturnal enuresis] Wille S. **Lakartidningen** 1990 Jul 11; 87(28–29):2343–4 **(Swe)**

DESMOSINE see under **AMINO ACIDS**

DESMOSOMES

ANALYSIS

Immunohistochemical localization of desmosomal and cytoskeletal proteins in the epidermis of healthy individuals and patients with Hailey–Hailey's disease. Inohara S, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):239–41

IMMUNOLOGY

19–DEJ–1, a monoclonal antibody to the hemidesmosome–anchoring filament complex, is the only reliable immunohistochemical probe for all major forms of junctional epidermolysis bullosa. Fine JD. **Arch Dermatol** 1990 Sep;126(9):1187–90

Immunochemical characterization of three components of the hemidesmosome and their expression in cultured epithelial cells. Klatte DH, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3377–90

Changes to desmosomal antigens and lectin–binding sites during differentiation in normal human epidermis: a quantitative ultrastructural study. Skerrow CJ, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):667–77

[Production of hemidesmosome–specific monoclonal antibody: its application for the diagnosis of oral squamous cell carcinoma] Negishi A. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):70–82 (Eng. Abstr.) **(Jpn)**

[Immunopathology of desmosomes] Martínez RD. **Rev Alerg Mex** 1989 Jul–Aug;36(4):153–5 (20 ref.) **(Spa)**

METABOLISM

Differentiation of human trophoblast cells in vitro as revealed by immunocytochemical staining of desmoplakin and nuclei. Douglas GC, et al. **J Cell Sci** 1990 May;96 (Pt 1):131–41

PHYSIOLOGY

Actin filament and desmosome formation in cultured human keratinocytes. Inohara S, et al. **Arch Dermatol Res** 1990; 282(3):210–2

Early expression of desmosomal components during kidney tubule morphogenesis in human and murine embryos. Garrod DR, et al. **Development** 1990 Feb;108(2):313–21

Involvement of protein kinase C in translocation of desmoplakins from cytosol to plasma membrane during desmosome formation in human squamous cell carcinoma cells grown in low to normal calcium concentration. Sheu HM, et al. **Exp Cell Res** 1989 Nov;185(1):176–90

Structure of the human desmoplakins. Implications for function in the desmosomal plaque [published erratum appears in J Biol Chem 1990 Jul 5;265(19):11406–7] Green KJ, et al. **J Biol Chem** 1990 Feb 15;265(5):2603–12

ULTRASTRUCTURE

Abnormal expression of hemidesmosome–like structures by junctional epidermolysis bullosa keratinocytes in vitro. Chapman SJ, et al. **Br J Dermatol** 1990 Aug;123(2):137–44

Intercellular recognition and adhesion in desmosomes. Gorbsky G. **Dev Biol (N Y 1985)** 1986;3:129–56 (175 ref.)

Prenatal diagnosis of genodermatoses by ultrastructural diagnostic markers in extra–embryonic tissues: defective hemidesmosomes in amnion epithelium of fetuses affected with epidermolysis bullosa Herlitz type (an alternative prenatal diagnosis in certain cases). Hausser I, et al. **Hum Genet** 1990 Aug;85(3):367–75

Desmosomal–mitochondrial complexes in human nonpigmented ciliary and retinal pigment epithelia. Schlötzer–Schrehardt U, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):664–9

Rearrangements of desmosomal and cytoskeletal proteins during the transition from epithelial to fibroblastoid organization in cultured rat bladder carcinoma cells. Boyer B, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1495–509

A protein antigenically related to nuclear lamin B mediates the association of intermediate filaments with desmosomes. Cartaud A, et al. **J Cell Biol** 1990 Aug;111(2):581–8

A new high molecular mass protein showing unique localization in desmosomal plaque. Hieda Y, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1511–8

Hemidesmosomes, collagen VII, and intermediate filaments in basal cell carcinoma. Jones JC, et al. **J Invest Dermatol** 1989 Nov;93(5):662–71

An ultrastructural study of the effects of gossypol on the endometrium of the female rat. Bender HS, et al. **J Ultrastruct Mol Struct Res** 1988 Nov–Dec; 101(2–3):137–44

Prenatal diagnosis of junctional epidermolysis bullosa Herlitz type [letter] [see comments] Hausser I, et al. **Lancet** 1989 Oct 28;2(8670):1035–6 Comment in: Lancet 1989 Dec 16;2(8677):1453.

DESMOSTEROL

METABOLISM

The reactivity of desmosterol and other shellfish– and xanthomatosis–associated sterols in the macrophage sterol esterification reaction. Tabas I, et al. **J Clin Invest** 1989 Dec;84(6):1713–21

Precursors for cholesterol synthesis (7–dehydrocholesterol, 7–dehydrodesmosterol, and desmosterol): cholesterol/7–dehydrocholesterol ratio as an index of development and aging in PNS but not in CNS. Bourre JM, et al. **J Neurochem** 1990 Apr;54(4):1196–9

DESONIDE see under **PREGNADIENETRIOLS**

DESOXIMETASONE see under **DEXAMETHASONE**

DESOXYCHOLIC ACID see **DEOXYCHOLIC ACID**

DESOXYCORTICOSTERONE

Suprapontine ablation in normal and Doc–salt or one–kidney, one–clip hypertensive rats. Gómez RE, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(1):1–7

Prevention of 11–deoxycorticosterone–salt–induced glomerular hypertrophy and glomerulosclerosis by dietary phosphate binder. Shimamura T. **Am J Pathol** 1990 Mar; 136(3):549–56

Association of DOCA hypertension with induction of atherosclerosis in rats with short–term diabetes mellitus. Hebden RA, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R1042–50

Peripheral neurogenic mechanisms in deoxycorticosterone acetate—salt hypertension in the rat. de Champlain J, et al. **Can J Physiol Pharmacol** 1989 Sep;67(9):1140–5 (56 ref.)

Deoxycorticosterone hypertension in the intact weanling rat without salt loading. Rodriguez–Sargent C, et al. **Hypertension** 1990 Feb;15(2 Suppl):I112–6

ADMINISTRATION & DOSAGE

Infusion of atrial natriuretic hormone in DOCA/salt and spontaneously hypertensive rats. Fujimura A, et al. **Acta Endocrinol (Copenh)** 1989 Oct;121(4):567–72

[Effect of altered hormonal balance in the mother–fetus system on body weight, the adrenal glands, thymus gland and peripheral blood leukocyte composition in the offspring] Pavlova IG. **Arkh Anat Gistol Embriol** 1989 Sep; 97(9):60–4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Cardiac hypertrophy developing during DOCA–salt treatment is dissociated from systemic and regional hemodynamics. Kobrin I, et al. **Am J Hypertens** 1990 Feb; 3(2):136–9

ANALOGS & DERIVATIVES

Effects of mineralocorticoid on kininase activity along the distal nephron segments of the rat. Tomita K, et al. **Adv Exp Med Biol** 1989;247A:181–4

Relationship of hypokalemia to metabolic alkalosis in the intact Yucatan miniature boar following implantation of deoxycorticosterone–acetate (DOCA) or d–aldosterone. Terris JM. **Comp Biochem Physiol [A]** 1990;96(1):75–8

Synthesis, metabolism, and pharmacological activity of 3 alpha–hydroxy steroids which potentiate GABA–receptor–mediated chloride ion uptake in rat cerebral cortical synaptoneurosomes. Purdy RH, et al. **J Med Chem** 1990 Jun;33(6):1572–81

Evidence of formation of isomeric methoximes from 20–oxosteroids. Bournot P, et al. **J Steroid Biochem** 1989 Nov;33(5):971–6

Renal 21–hydroxylation of 19–hydroxy–progesterone to 19–hydroxy–deoxycorticosterone. Griffing GT, et al. **J Steroid Biochem** 1989 Nov;33(5):895–8

[Clinical significance of serum 11–deoxycorticosterone analysis in endocrine tests of the adrenal cortex] Kinouchi T, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:1211–6 **(Jpn)**

BIOSYNTHESIS

Electron microscopic findings in benign deoxycorticosterone and 11–deoxycortisol–producing adrenal tumor. Osanai T, et al. **Arch Pathol Lab Med** 1990 Aug;114(8):829–31

BLOOD

Steroid response to adrenocorticotropin stimulation in children with human immunodeficiency virus infection [see comments] Oberfield SE, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):578–81 Comment in: J Clin Endocrinol Metab 1990 Mar;70(3):563–5.

[A case of the benign adrenal adenoma with remarkably high concentrations of deoxycorticosterone and 11–deoxycortisol] Konta A, et al. **Nippon Jinzo Gakkai Shi** 1989 Nov;31(11):1223–7 (Eng. Abstr.) **(Jpn)**

[Clinical significance of serum 11–deoxycorticosterone analysis in endocrine tests of the adrenal cortex] Kinouchi T, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:1211–6 **(Jpn)**

METABOLISM

Metabolic fate of [3H]deoxycorticosterone and [14C]progesterone—I. Early tissue metabolites and analysis of 21–hydroxysteroids by high pressure liquid chromatography. Senciall IR, et al. **J Steroid Biochem** 1989 Dec;33(6):1197–206

PHARMACOLOGY

Effect of desoxycorticosterone on the activity of drug–metabolizing enzyme systems. Tantcheva L, et al. **Acta Physiol Pharmacol Bulg** 1989;15(2):33–9

Renal function as affected by inhibitors of kininase II and of neutral endopeptidase 24.11 in rats with and without desoxycorticosterone pretreatment. Nakagawa M, et al. **Adv Exp Med Biol** 1989;247B:495–9

Differences in synergistic actions of vasopressin and deoxycorticosterone in rat and rabbit CCD. Chen L, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):F147–56

Increased urinary clearance of lysine vasopressin in the deoxycorticosterone acetate–hypertensive pig. Ling WD, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1467–73

Atrial natriuretic peptide receptors in renal papilla of DOCA–salt hypertensive rats. Nuglozeh E, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):F130–7

Vasopressin and mineralocorticoid increase apical membrane driving force for K+ secretion in rat CCD. Schafer JA, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F199–210

Increased density of glutamic acid decarboxylase–containing terminals in the medial preoptic nucleus and the area surrounding the paraventricular hypothalamic nucleus is associated with deoxycorticosterone acetate (DOCA)–salt hypertension. Zappia A, et al. **Anat Rec** 1990 Aug; 227(4):518–22

The medial amygdala is part of a mineralocorticoid–sensitive circuit controlling NaCl intake in the rat. Nitabach MN, et al. **Behav Brain Res** 1989 Nov 1;35(2):127–34

Vascular changes associated with deoxycorticosterone–NaCl–induced hypertension. Lee RM, et al. **Blood Vessels** 1989;26(3):137–56

Changes of salt intake and of (Na+K)–ATPase activity in brain after high dose treatment with deoxycorticosterone. Grillo C, et al. **Brain Res** 1989 Oct 16;499(2):225–33

Angiotensin II generation in mesenteric arteries in rats: effects of nephrectomy, deoxycorticosterone and dexamethasone. Miyamori I, et al. **Endocrinol Jpn** 1990 Feb; 37(1):9–17

Corticosteroid regulation of gonadotropin and prolactin secretion in the rat. Brann DW, et al. **Endocrinology** 1990 Jan;126(1):159–66

Urinary excretion of digoxin–like factor (DLF) and ADH during DOCA–salt and Goldblatt 2 kidney–1 clip hypertension development. Vargas F, et al. **Horm Metab Res** 1990 Jun;22(6):352–5

NaCl does not affect hypothalamic noradrenergic input in deoxycorticosterone acetate/NaCl and Dahl salt–sensitive rats. Chen YF, et al. **Hypertension** 1990 Jul;16(1):55–62

Renal effects of Fab fragments of kinin antibodies on deoxycorticosterone acetate–salt–treated rats. Tomiyama H, et al. **Hypertension** 1990 Jun;15(6 Pt 2):761–6

Altered renal alpha–adrenoceptor density induced by prolonged NaCl and DOCA administration in spontaneously hypertensive rats. Sánchez A, et al. **J Cardiovasc Pharmacol** 1990 Jun;15(6):857–61

Deoxycorticosterone prevents the blood pressure–lowering effect of calcium in spontaneously hypertensive rats. Wuorela H, et al. **Methods Find Exp Clin Pharmacol** 1990 Jan–Feb;12(1):37–42

[A comparative study of C19 steroid–induced hypertension and deoxycorticosterone acetate (DOCA)–salt hypertension] Minato M, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Jan 20;66(1):29–41 (Eng. Abstr.) **(Jpn)**

[The role of Na+–K+ ATPase activity on blood pressure regulation and sodium metabolism in DOCA–treated rats] Shigetomi S, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Oct 20;65(10):1198–207 (Eng. Abstr.) **(Jpn)**

SECRETION

Continuous adrenocorticotropin administration in

hypopituitarism produces asynchronous increases of deoxycorticosterone and 11-deoxycortisol relative to other reduced zona fasciculata steroids. Kater CE, et al. **J Clin Endocrinol Metab** 1990 Aug;71(2):305-10

[A case of DOC-producing adrenocortical cancer causing right chest pain] Sakurai Y, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):996-7 **(Jpn)**

[Mixed adenoma of the adrenal cortex secreting cortisol and desoxycorticosterone] Shustov SB, et al. **Vopr Onkol** 1989; 35(12):1485-7 **(Rus)**

TOXICITY

Indirect evidence for an endothelium-derived contracting factor release in aorta of deoxycorticosterone acetate-salt hypertensive rats. Cordellini S, et al. **J Hypertens** 1990 Jan; 8(1):53-60

Renal injury in DOCA-salt hypertensive C5-sufficient and C5-deficient mice. Raij L, et al. **Kidney Int** 1989 Oct; 36(4):582-92

DESOXYCORTONE see **DESOXYCORTICOSTERONE**

DESOXYNOREPHEDRIN see **AMPHETAMINE**

DESOXYPHENOBARBITAL see **PRIMIDONE**

DESOXYRIBONUCLEASES see **DEOXYRIBONUCLEASES**

DESTOMBES-ROSAI-DORFMAN SYNDROME see **HISTIOCYTOSIS, SINUS**

DESULFOVIBRIO

ANALYSIS

Electrochemical and spectroscopic characterization of the 7Fe form of ferredoxin III from Desulfovibrio africanus. Armstrong FA, et al. **Biochem J** 1989 Nov 15;264(1):265-73

Electrochemical and spectroscopic characterization of the conversion of the 7Fe into the 8Fe form of ferredoxin III from Desulfovibrio africanus. Identification of a [4Fe-4S] cluster with one non-cysteine ligand. George SJ, et al. **Biochem J** 1989 Nov 15;264(1):275-84

ENZYMOLOGY

Mass-spectrometric studies of the interrelations among hydrogenase, carbon monoxide dehydrogenase, and methane-forming activities in pure and mixed cultures of Desulfovibrio vulgaris, Desulfovibrio desulfuricans, and Methanosarcina barkeri. Rajagopal BS, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2123-9

Purification and characterization of two proteins with inorganic pyrophosphatase activity from Desulfovibrio vulgaris: rubrerythrin and a new, highly active, enzyme. Liu MY, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):313-8

Estimation of microscopic redox potentials of a tetraheme protein, cytochrome c3 of Desulfovibrio vulgaris, Miyazaki F, and partial assignments of heme groups. Fan KJ, et al. **Biochemistry** 1990 Mar 6;29(9):2257-63

Purification and characterization of bisulfite reductase (desulfofuscidin) from Desulfovibrio thermophilus and its complexes with exogenous ligands. Fauque G, et al. **Biochim Biophys Acta** 1990 Aug 1;1040(1):112-8

Amino acid sequence and function of rubredoxin from Desulfovibrio vulgaris Miyazaki. Shimizu F, et al. **Biochimie** 1989 Nov-Dec;71(11-12):1171-7

Inhibition of Desulfovibrio gigas hydrogenase with copper salts and other metal ions. Fernandez VM, et al. **Eur J Biochem** 1989 Nov 6;185(2):449-54

Characterization of the nickel-iron periplasmic hydrogenase from Desulfovibrio fructosovorans. Hatchikian CE, et al. **Eur J Biochem** 1990 Feb 14;187(3):635-43

The active centers of adenylylsulfate reductase from Desulfovibrio gigas. Characterization and spectroscopic studies. Lampreia J, et al. **Eur J Biochem** 1990 Mar 30; 188(3):653-64

Localization of membrane-associated (NiFe) and (NiFeSe) hydrogenases of Desulfovibrio vulgaris using immunoelectron microscopic procedures. Rohde M, et al. **Eur J Biochem** 1990 Jul 31;191(2):389-96

The iron-sulfur centers of the soluble [NiFeSe] hydrogenase, from Desulfovibrio baculatus (DSM 1743). EPR and Mössbauer characterization. Teixeira M, et al. **Eur J Biochem** 1990 Apr 30;189(2):381-6

The three classes of hydrogenases from sulfate-reducing bacteria of the genus Desulfovibrio. Fauque G, et al. **FEMS Microbiol Rev** 1988 Dec;4(4):299-344 (236 ref.)

Hexaheme nitrite reductase from Desulfovibrio desulfuricans. Mössbauer and EPR characterization of the heme groups. Costa C, et al. **J Biol Chem** 1990 Aug 25;265(24):14382-8

GENETICS

Identification, sequence determination, and expression of the flavodoxin gene from Desulfovibrio salexigens. Helms LR, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):809-17

Effects of substituting asparagine for glycine-61 in flavodoxin from Desulfovibrio vulgaris (Hildenborough). Carr MC, et al. **Biochem Int** 1990;20(6):1025-32

Cloning and sequencing of the nifH gene of Desulfovibrio gigas. Kent HM, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1-2):73-8

Diversity and origin of Desulfovibrio species: phylogenetic definition of a family. Devereux R, et al. **J Bacteriol** 1990 Jul;172(7):3509-19

Natural relationships among sulfate-reducing eubacteria. Devereux R, et al. **J Bacteriol** 1989 Dec;171(12):6689-95

Expression of the gene encoding cytochrome c3 from Desulfovibrio vulgaris (Hildenborough) in Escherichia coli: export and processing of the apoprotein. Pollock WB, et al. **J Gen Microbiol** 1989 Aug;135 (Pt 8):2319-28

METABOLISM

Anaerobic degradation of 1,3-propanediol by sulfate-reducing and by fermenting bacteria. Oppenberg B, et al. **Antonie Van Leeuwenhoek** 1990 May;57(4):205-13

Oxidation of benzaldehydes to benzoic acid derivatives by three Desulfovibrio strains. Zellner G, et al. **Appl Environ Microbiol** 1990 Jul;56(7):2228-33

Coordination and redox properties of a novel triheme cytochrome from Desulfovibrio vulgaris (Hildenborough). Tan JA, et al. **Biochemistry** 1990 May 22;29(20):4886-92

Time-resolved fluorescence studies of flavodoxin. Fluorescence decay and fluorescence anisotropy decay of tryptophan in Desulfovibrio flavodoxins. Leenders HR, et al. **Eur Biophys J** 1990;18(1):43-55

Electron transport in sulfate-reducing bacteria. Molecular modeling and NMR studies of the rubredoxin—tetraheme-cytochrome-c3 complex. Stewart DE, et al. **Eur J Biochem** 1989 Nov 20;185(3):695-700

DETERGENTS see under **SURFACE-ACTIVE AGENTS**

DETOXICATION, DRUG, METABOLIC see **METABOLIC DETOXICATION, DRUG**

DEUTERIUM

Deuterium isotope effect of phenelzine on the inhibition of rat liver mitochondrial monoamine oxidase activity. Yu PH, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4245-51

Pulsed electron paramagnetic resonance studies of the interaction of Mg-ATP and D2O with the iron protein of nitrogenase. Morgan TV, et al. **Biochemistry** 1990 Mar 27;29(12):3077-82

Isotope dilution studies: determination of carbon-13, nitrogen-15 and deuterium-enriched compounds using capillary gas chromatography-chemical reaction interface/mass spectrometry. Chace DH, et al. **Biomed Environ Mass Spectrom** 1990 Mar;19(3):117-22

The use of Brauman's least squares approach for the quantification of deuterated chlorophenols. Korzekwa K, et al. **Biomed Environ Mass Spectrom** 1990 Apr;19(4):211-7

Use of isotope effects to characterize intermediates in mechanism-based inactivation of dopamine beta-monooxygenase by beta-chlorophenethylamine. Bossard MJ, et al. **J Biol Chem** 1990 Apr 5;265(10):5640-7

Orientational ordering and dynamics of the hydrate and exchangeable hydrogen atoms in crystalline crambin. Usha MG, et al. **J Mol Biol** 1989 Aug 20;208(4):669-78

Quantitative studies of hydrodynamic effects and cross-relaxation in protein solutions and tissues with proton and deuteron longitudinal relaxation times. Zhong JH, et al. **Magn Reson Med** 1990 Feb;13(2):192-203

Deuteration in protein proton magnetic resonance. LeMaster DM. **Methods Enzymol** 1989;177:23-43

Phosphoglucoisomerase-catalyzed interconversion of hexose phosphates: isotopic discrimination between hydrogen and deuterium. Malaisse WJ, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):153-65

Use of deuterium labelling in NMR studies of antibody combining site structure. Anglister J. **Q Rev Biophys** 1990 May;23(2):175-203 (81 ref.)

Deuterium labelling in NMR structural analysis of larger proteins. LeMaster DM. **Q Rev Biophys** 1990 May; 23(2):133-74 (141 ref.)

[Deuteration of dimethyl 4,4'-dimethoxy-5,6,5',6'-dimethylenedioxybiphenyl-2,2'-dicarboxylate (BDD): a remedy for chronic hepatitis] Tong Q. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Feb;12(1):42-5 (Eng. Abstr.) **(Chi)**

[Comparison of different methods of interpretation for the prediction of body water by heavy water dilution method: application in the male goat] Schmidely P, et al. **Reprod Nutr Dev** 1989;29(4):487-94 (Eng. Abstr.) **(Fre)**

[Protective effect of D20 in bacteria (E. coli)] Papadimitriou C, et al. **Z Naturforsch [C]** 1989 Nov-Dec;44(11-12):1053-7 (Eng. Abstr.) **(Ger)**

[Changes in mechanical characteristics of immobilized crystals and films of globular proteins during substitution of D2O for H2O] Vishnevskaia ZI, et al. **Biofizika** 1990 Jan-Feb;35(1):43-6 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Effect of intracerebroventricular deuterium oxide on water intake and AVP release induced by intravenous infusion of angiotensin II in sheep. Hjelmqvist H, et al. **Acta Physiol Scand** 1990 Feb;138(2):155-60

ADVERSE EFFECTS

[Comparison of the teratogenic properties manifested in BALB c mice, by diphenylhydantoin and deuterated diphenylhydantoin] Lambotte-Vandepaer M, et al. **C R Soc Biol (Paris)** 1989;183(4):358-61 (Eng. Abstr.) **(Fre)**

ANALYSIS

Hydrogen atom formation by ultrasound in D2O solutions of nitrone spin traps. Kondo T, et al. **Free Radic Res Commun** 1989;7(1):11-8

DIAGNOSTIC USE

Isotopic measurement of glucose and lactate kinetics. Wolfe RR. **Ann Med** 1990 Jun;22(3):163-70

Single-dose toxicokinetics of N-nitrosomethylethylamine and N-nitrosomethyl (2,2,2-trideuterioethyl)amine in the rat. Streeter AJ, et al. **Arch Toxicol** 1990;64(2):109-15

Use of deuterated water for measurement of short-term cholesterol synthesis in humans. Jones PJ. **Can J Physiol Pharmacol** 1990 Jul;68(7):955-9 (24 ref.)

Deuterium nuclear magnetic resonance imaging of tracer distribution in D2O clearance measurements of tumor blood flow in mice. Larcombe McDouall JB, et al. **Cancer Res** 1990 Jan 15;50(2):363-9

Field use of D2 18O to measure energy expenditure of soldiers at different energy intakes. DeLany JP, et al. **J Appl Physiol** 1989 Nov;67(5):1922-9

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma. Gavlick WK, et al. **J Chromatogr** 1990 May 25; 508(1):187-92

Evaluation of heavy water for indicator dilution cardiac output measurement. Schreiner MS, et al. **J Clin Monit** 1989 Oct;5(4):236-42

Synthesis of [11,11,12,12-2H4]progesterone for mass spectral investigations of peripheral metabolism. Kirk DN, et al. **Steroids** 1990 May;55(5):222-7

IMMUNOLOGY

Eosinophil and basophil hypersensitivity to deuterium oxide in atopic asthmatic patients. Palczyński C, et al. **Allergol Immunopathol (Madr)** 1989 May-Jun;17(3):137-9

METABOLISM

Deuterium and oxygen-18 abundance in birds: implications for DLW energetics studies. Tatner P. **Am J Physiol** 1990 Mar;258(3 Pt 2):R804-12

Deuterons cannot replace protons in active transport processes in yeast. Kotyk A, et al. **FEBS Lett** 1990 May 21;264(2):203-5

PHARMACOKINETICS

[The effect of external gamma-irradiation on the distribution of deuterium oxide in the rat body] Puliaevskil AG, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):809-11 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effect of disodium cromoglycate on deuterium oxide-induced degranulation of human eosinophils in allergic asthmatic patients in vitro. Palczyński C, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1-2):157-60

Glutathione reductase: comparison of steady-state and rapid reaction primary kinetic isotope effects exhibited by the yeast, spinach, and Escherichia coli enzymes. Vanoni MA, et al. **Biochemistry** 1990 Jun 19;29(24):5790-6

Disorganization of mitosis in HeLa cells by deuterium oxide. Lamprecht J, et al. **Eur J Cell Biol** 1989 Dec;50(2):360-9

Mitosis arrested by deuterium oxide. Light microscopic, immunofluorescence and ultrastructural characterization. Lamprecht J, et al. **Eur J Cell Biol** 1990 Apr;51(2):303-12

Deuterium oxide normalizes blood pressure and vascular calcium uptake in Dahl salt-sensitive hypertensive rats. Vasdev S, et al. **Hypertension** 1990 Feb;15(2):183-9

Effects of deuterium oxide (D2O) on the development of hypertension and Ca2+ homeostasis in spontaneously hypertensive rats. Vasdev S, et al. **J Hypertens** 1990 Feb; 8(2):185-9

D2O-induced cell excitation. Andjus PR, et al. **J Membr Biol** 1990 May;115(2):123-7

[The absence of changes in the progeny of fishes and frogs after an increase in heat resistance of the parental gametes in heavy water (D2O) (letter)] Ushakov VB, et al. **Zh Evol Biokhim Fiziol** 1989 Nov-Dec;25(6):784-5 **(Rus)**

THERAPEUTIC USE

Heavy water enhances the antineoplastic effect of 5-fluoro-uracil and bleomycin in nude mice bearing human carcinoma. Altermatt HJ, et al. **Int J Cancer** 1990 Mar 15;45(3):475-80

TOXICITY

Biological effects of D2O administration to Coturnix japonica. Sutton SP, et al. **Life Sci** 1974 Dec 15; 15(12):2097-108

DEUTEROMYCETES

Invasive infection with Sarcinosporon inkin in a patient with chronic granulomatous disease. Kenney RT, et al. **Am J Clin Pathol** 1990 Sep;94(3):344–50

DRUG EFFECTS

Effect of some antibiotics on Macrophomina phaseolina, a charcoal rot fungus of soybean. Dubey RC. **Hindustan Antibiot Bull** 1989 Feb–May;31(1–2):38–9

The effect of beta-sitosterol on spore germination and germ-tube elongation of Aspergillus niger and Botryodiplodia theobromae. Aderiye BI, et al. **Int J Food Microbiol** 1989 Feb;8(1):73–8

ENZYMOLOGY

Purification and properties of a carboxymethylcellulase from phytopathogenic fungus Macrophomina phaseolina. Roy U, et al. **Indian J Biochem Biophys** 1989 Aug;26(4):243–8

IMMUNOLOGY

Studies on antigens from agents causing black grain eumycetoma. Romero H, et al. **J Med Vet Mycol** 1989; 27(5):303–11

ISOLATION & PURIFICATION

An autochthonous phaeohyphomycotic nail infection in Canada caused by Hendersonula toruloidea. Kane J, et al. **Mycoses** 1990 Jan;33(1):37–40

[Detection of Coelomomyces psorophorae Couch in the Ukraine] Koval' EZ, et al. **Mikrobiol Zh** 1989 May–Jun; 51(3):75–6 (Eng. Abstr.) **(Rus)**

METABOLISM

The effects of new cytochalasins from Phomopsis sp. and the derivatives on cellular structure and actin polymerization. Hirose T, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):971–4

DEUTERONS see **DEUTERIUM**

DEUTEROPORPHYRINS see under **PORPHYRINS**

DEVELOPING COUNTRIES

Experience in leprosy control in a developing country: Vietnam. Lê Kinh Duê. **Acta Leprol** 1989;7(1):69–72

The link between infant mortality and birth rates—the importance of breastfeeding as a common factor. Hanson LA, et al. **Acta Paediatr Scand** 1990 May;79(5):481–9 (45 ref.)

Paralytic ileus, a serious complication in acute diarrhoea disease among infants in developing countries. Murtaza A, et al. **Acta Paediatr Scand** 1989 Sep;78(5):701–5

Relating growth rate to environmental factors—methodological problems in the study of growth-infection interaction. Cole TJ. **Acta Paediatr Scand Suppl** 1989;350:14–20

Longitudinal study of growth of African babies: an analysis of seasonal variations in the average growth rate and the effects of infectious diseases on individual and average growth patterns. Hauspie RC, et al. **Acta Paediatr Scand Suppl** 1989;350:37–43

Growth disturbance in an urban area of Lahore, Pakistan related to feeding patterns, infections and age, sex, socio-economic factors and seasons. Jalil F, et al. **Acta Paediatr Scand Suppl** 1989;350:44–54

Postpartum psychosis: a study of indoor cases in a general hospital psychiatric clinic. Agrawal P, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):571–5

Inpatient adolescent psychiatry in a teaching hospital in Nigeria. Oyewumi LK. **Acta Psychiatr Scand** 1989 Dec; 80(6):639–43

Mental disorders among primary health care patients in Nicaragua. Penayo U, et al. **Acta Psychiatr Scand** 1990 Jul; 82(1):82–5

Training primary care medical officers in mental health care: an evaluation using a multiple-choice questionnaire. Sriram TG, et al. **Acta Psychiatr Scand** 1990 May;81(5):414–7

Effects of social change on mental disorders in Taiwan: observations based on a 15-year follow-up survey of general populations in three communities. Lin TY, et al. **Acta Psychiatr Scand Suppl** 1989;348:11–33; discussion 167–78

Drug enrichment of commercial poultry feeds and human health in the tropical developing countries. Ojeniyi AA. **Acta Vet Scand** 1989;30(2):133–9

Singapore youth: the impact of social status on perceptions of adolescent problems. Israelowitz RE, et al. **Adolescence** 1990 Summer;25(98):357–62

Patterns of adolescent psychoactive substance use and abuse in Benin City, Nigeria. Pela OA. **Adolescence** 1989 Fall; 24(95):569–74

Sexual behavior of Colombian high school students. Useche B, et al. **Adolescence** 1990 Summer;25(98):291–304

The impact of AIDS on socioeconomic development. Nabarro D, et al. **AIDS** 1989;3 Suppl 1:S265–72 (43 ref.)

Care of HIV-infected people in the developing world: practical aspects. Sewankambo NK. **AIDS** 1989;3 Suppl 1:S195–9 (24 ref.)

Occupational health in developing countries: review of research needs. Christiani DC, et al. **Am J Ind Med** 1990; 17(3):393–401 (9 ref.)

Trying RU 486 in Third World countries [letter; comment] Armbruster M. **Am J Nurs** 1989 Nov;89(11):1437 Comment on: Am J Nurs 1989 Apr;89(4):496–9.

The challenge of Third World nursing. Malone RE. **Am J Nurs** 1990 Jul;90(7):32–7

Organizing to prevent Third World blindness [letter; comment] Brian G, et al. **Am J Ophthalmol** 1989 Oct 15; 108(4):466–7 Comment on: Am J Ophthalmol 1989 May 15;107(5):544–6.

Teaching physiology in the Third World: be a teacher not a politician [letter] Richardson D. **Am J Physiol** 1990 Jun; 258(6 Pt 3):S16

Tropical medicine and health in the developing world. Cook JA. **Am J Trop Med Hyg** 1988 May;38(3):459–65

An A.S.A. (American Society of Anesthesiologists) Overseas Teaching Program [editorial] Greene NM. **Anesthesiology** 1990 Jan;72(1):1–2

The coming of age of cardiology in Singapore [editorial] Tan AT, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):1–2

Tuberculosis control and the AIDS epidemic in developing countries. Pitchenik AE. **Ann Intern Med** 1990 Jul 15; 113(2):89–91

Biomedical science and the Third World: under the volcano. **Ann N Y Acad Sci** 1989;569:1–334

The influence of different sexual-contact patterns between age classes on the predicted demographic impact of AIDS in developing countries. Anderson RM, et al. **Ann N Y Acad Sci** 1989;569:240–74 (21 ref.)

Putting biomedical knowledge to use in the Third World. Grant JP. **Ann N Y Acad Sci** 1989;569:xi–xvii

Biomedical science and the Third World. Under the volcano. Introduction. Lederberg J. **Ann N Y Acad Sci** 1989; 569:xix–xx

Biotechnology and the Third World: development strategies in Cuba. Limonta M. **Ann N Y Acad Sci** 1989;569:325–34 (17 ref.)

Perspectives on research and diseases of the Tropics: an Asian view. Ramalingaswami V. **Ann N Y Acad Sci** 1989; 569:25–35 (11 ref.)

Investments in women, economic development, and improvements in health in low-income countries. Schultz TP. **Ann N Y Acad Sci** 1989;569:288–310 (37 ref.)

Disease problems in the Third World. Walsh JA. **Ann N Y Acad Sci** 1989;569:1–16 (42 ref.)

The health sector in developing countries: problems for the 1990s and beyond. Mosley WH, et al. **Annu Rev Public Health** 1990;11:335–58 (36 ref.)

Nutrition: prospects for the 1990s. Scrimshaw NS. **Annu Rev Public Health** 1990;11:53–68 (68 ref.)

Diversity of topological palmar patterns in Iranian populations. Kamali MS, et al. **Anthropol Anz** 1990 Mar; 48(1):85–97

A note on the frequency distribution of ABO and rhesus blood groups in four Thai populations of Assam (India) and their position among the Mongoloids of this region. Singh TS, et al. **Anthropol Anz** 1990 Mar;48(1):29–35

OR nursing in developing countries. Present conditions, future hopes. McInerney TG. **AORN J** 1990 Feb;51(2):554, 556, 558, passim

Drug-induced toxic epidermal necrolysis in developing countries [letter] Nanda A, et al. **Arch Dermatol** 1990 Jan; 126(1):125

Identification of factors affecting infant growth in developing countries. Eccles MP, et al. **Arch Dis Child** 1989 Nov; 64(11):1559–65

Open fractures of the femur treated by the pin-in-plaster technique. Contribution to the art and practice of trauma surgery in the Third World. Bassey LO. **Arch Orthop Trauma Surg** 1990;109(3):139–43

The changing pattern of oral dental diseases. A global perspective. Nikiforuk G. **Arctic Med Res** 1988;47 Suppl 1:545–53 (40 ref.)

Opportunities for service in Third World countries. Fain MR. **ASHA** 1990 May;32(5):45–6

Malaria vaccines: overview and perspective for developing countries [editorial] Webster HK. **Asian Pac J Allergy Immunol** 1989 Dec;7(2):77–8

Antenatal care in developing countries. Nylander PP, et al. **Baillieres Clin Obstet Gynaecol** 1990 Mar;4(1):169–86 (49 ref.)

The undeveloped countries: biological psychiatry in India [editorial] Sethi BB. **Biol Psychiatry** 1990 Apr 1;27(7):687–8

Quality assurance in toxicology studies in developing countries. Morris CR. **Biomed Environ Sci** 1989 Mar; 2(1):44–7

Transfer of regulatory toxicology from developed to developing countries. Salinas JA. **Biomed Environ Sci** 1988 Dec;1(4):392–405 (22 ref.)

Maternal health in the Third World. Bullough CH. **BMJ** 1989 Aug 26;299(6698):525–6

Health for all by the year 2000 [letter] Fiander A. **BMJ** 1989 Nov 11;299(6709):1223

Donating drugs to the Third World [letter] Griffiths FE. **BMJ** 1989 Aug 5;299(6695):390–1

Autologous transfusion [letter] Harrison NW. **BMJ** 1990 Jun 2;300(6737):1464

Mothers with HIV [letter; comment] Jelliffe DB, et al. **BMJ** 1989 Nov 11;299(6709):1219 Comment on: BMJ 1989 Sep 30;299(6703):806–7.

Saving children's lives by vaccination. Morley D. **BMJ** 1989 Dec 23–30;299(6715):1544–5 (9 ref.)

Autologous transfusion [letter; comment] Page RJ, et al. **BMJ** 1990 Apr 28;300(6732):1139 Comment on: BMJ 1990 Mar 17;300(6726):737–40.

Effects of maternal and child health on mortality [letter] Wilkinson D. **BMJ** 1990 Aug 11;301(6747):340–1

Alcohol advertising in developing countries. Aitken PP. **Br J Addict** 1989 Dec;84(12):1443–5

Use of alcohol among high school students in Lesotho—a health promotion perspective. Amos A. **Br J Addict** 1989 Dec;84(12):1447–9

Exporting death. Britain's malignant epidemic spreads to the developing world [editorial] Ball K. **Br J Addict** 1990 Mar; 85(3):313–4

Towards freedom: treatment approaches to drug dependence at TTK Hospital. Cherian RR. **Br J Addict** 1989 Dec; 84(12):1401–7

Tobacco: world action on the pandemic. Crofton J. **Br J Addict** 1989 Dec;84(12):1397–400

Thailand and AIDS [news] Farrell M. **Br J Addict** 1990 Jun; 85(6):817

Tobacco use in a cohort of children in Sri Lanka. Mendis S. **Br J Addict** 1990 Mar;85(3):397–8

Use of alcohol among high school students in Lesotho. Meursing K, et al. **Br J Addict** 1989 Nov;84(11):1337–42

Alcoholism among outpatients of a rural district general hospital in Kenya. Nielsen MF, et al. **Br J Addict** 1989 Nov;84(11):1343–51

Should overseas doctors be trained at home? [letter; comment] Gibney EJ. **Br J Hosp Med** 1990 Apr;43(4):254 Comment on: Br J Hosp Med 1990 Jan;43(1):11.

Psychosocial problems in families of disabled children. Singhi PD, et al. **Br J Med Psychol** 1990 Jun;63 (Pt 2):173–82

Breast milk zinc and copper concentrations in Bangladesh. Simmer K, et al. **Br J Nutr** 1990 Jan;63(1):91–6

Maternal mortality in developing countries [letter; comment] **Br J Obstet Gynaecol** 1990 Jan;97(1):87–9 Comment on: Br J Obstet Gynaecol 1989 Jan;96(1):1–3.

Maternal mortality in developing countries [letter; comment] **Br J Obstet Gynaecol** 1989 Sep;96(9):1119–23 Comment on: Br J Obstet Gynaecol 1989 Jan;96(1):1–3.

Caution about sorcery [letter; comment] Mynors-Wallis LM. **Br J Psychiatry** 1989 Oct;155:570 Comment on: Br J Psychiatry 1989 Feb;154:218–20.

Epidemiology of mental disorders in young adults of a newly urbanized area in Khartoum, Sudan. Rahim SI, et al. **Br J Psychiatry** 1989 Jul;155:44–7

Neuropsychological assessment in illiterates: visuospatial and memory abilities. Ardila A, et al. **Brain Cogn** 1989 Nov; 11(2):147–66

The health of mothers and children in the context of HIV/AIDS [news] **Bull Int Union Tuberc Lung Dis** 1990 Mar;65(1):55–8

Tuberculosis in developing countries: burden, intervention and cost. Murray CJ, et al. **Bull Int Union Tuberc Lung Dis** 1990 Mar;65(1):6–24 (71 ref.)

Health communication in the Caribbean. **Bull Pan Am Health Organ** 1989;23(3):347–9

From puppet shows to teleconferencing: communicating health in the Americas. **Bull Pan Am Health Organ** 1989; 23(3):343–6

Mortality from diabetes mellitus in Jamaica. Alleyne SI, et al. **Bull Pan Am Health Organ** 1989;23(3):306–14

Becoming health advocates [editorial] Guerra de Macedo C. **Bull Pan Am Health Organ** 1989;23(3):i

Evaluation of leprosy epidemiology in 12 countries of the Americas, 1980–1983. Lombardi C. **Bull Pan Am Health Organ** 1989;23(3):284–94

Infant mortality in Cuba, 1969–1988. Riverón Corteguera R, et al. **Bull Pan Am Health Organ** 1989;23(3):273–83

Health sector disparities in Peru. Zschock DK. **Bull Pan Am Health Organ** 1989;23(3):323–36

Measles immunization research: a review. Aaby P, et al. **Bull World Health Organ** 1989;67(4):443–8 (50 ref.)

An index for assigning priority for cancer control within the health care delivery system in developing countries. Jayant K. **Bull World Health Organ** 1989;67(5):565–6

Measles prevention and control in emergency settings. Toole MJ, et al. **Bull World Health Organ** 1989;67(4):381–8

Approaches to prevent acute bacterial meningitis in developing countries. Wright PF. **Bull World Health Organ** 1989;67(5):479–86

Mortality from burns in Kuwait. Bang RL, et al. **Burns** 1989 Oct;15(5):315–21

Burn injuries in the Jeddah area of Saudi Arabia: a study of 319 cases. Jamal YS, et al. **Burns** 1989 Oct;15(5):295–8

What "miracle in the making"? Le Riche WH. **Can J Public Health** 1990 Jan–Feb;81(1):73–5

Third World aid [letter] de Veber LL. **Can Med Assoc J** 1989 Dec 15;141(12):1225

Third World aid [letter] [see comments] Harding le Riche W. **Can Med Assoc J** 1990 Apr 1;142(7):707–8 Comment in: Can Med Assoc J 1990 Jul 15;143(2):89.

Undergraduate exchange visit to India: an experience in tolerance. McAlister NH. **Can Med Assoc J** 1975 Oct 18; 113(8):787, 789, 791

Third-World ophthalmology [letter] Nelson C. **Can Med Assoc J** 1990 Jan 15;142(2):100–1

Use caution when donating drugs, guidelines suggest. Riggs B. **Can Med Assoc J** 1990 Jan 1;142(1):65–6

Pattern of caries experience in permanent molars in a 15-year-old African population. Johnson AS, et al. **Caries Res** 1989;23(6):423–6
Cognitive abilities of Kenyan children in relation to nutrition, family characteristics, and education. Sigman M, et al. **Child Dev** 1989 Dec;60(6):1463–74
Hypertension studies in developing countries. Ikeme AC. **Clin Exp Hypertens [A]** 1989;11(5–6):825–39 (53 ref.)
The basic radiology system: a challenging role in a changing world. de Lacey G. **Clin Radiol** 1990 Jan;41(1):3–4
Coping with the management of orofacial cancer with limited resources [letter] Chindia ML. **Community Dent Oral Epidemiol** 1990 Apr;18(2):109
Some modalities of initiating and sustaining oral health research [letter] Chindia ML. **Community Dent Oral Epidemiol** 1989 Oct;17(5):274
The George C. Poppensiek Lecture at Cornell University on International Veterinary medicine. Animal disease as a factor limiting economic development in Africa. Jawara DK. **Cornell Vet** 1990 Jan;80(1):17–25 (10 ref.)
The angry liver, the anxious heart and the melancholy spleen. The phenomenology of perceptions in Chinese culture. Ots T. **Cult Med Psychiatry** 1990 Mar;14(1):21–58
The Hall of Dragon Metamorphoses: a unique, indigenous asylum for chronic mental patients in Taiwan. Wen JK. **Cult Med Psychiatry** 1990 Mar;14(1):1–19
Demographic seasonality and development: the effects of agricultural colonialism in Taiwan, 1906–1942. Anderton DL, et al. **Demography** 1990 Aug;27(3):397–411
Effects of agricultural development policies on migration in peninsular Malaysia. Baydar N, et al. **Demography** 1990 Feb;27(1):97–109
Multilevel models of fertility determination in four Southeast Asian countries: 1970 and 1980. Hirschman C, et al. **Demography** 1990 Aug;27(3):369–96
Maternal education and child immunization. Streatfield K, et al. **Demography** 1990 Aug;27(3):447–55
Simplified birth rate estimates under nonstable conditions. Venkatacharya K. **Demography** 1990 Feb;27(1):131–47
Declaring world war on AIDS. MacSween S. **Dimens Health Serv** 1989 Sep;66(6):34–5
Impact of research on designing strategies for preventing and treating dependence on drugs: the case for developing countries especially African countries. Asuni T. **Drug Alcohol Depend** 1990 Apr;25(2):203–7 (9 ref.)
The detoxification of high dose heroin addicts in Pakistan. Gossop M. **Drug Alcohol Depend** 1989 Oct;24(2):143–50
Adaptation of a method of measuring zone diameters of bacterial growth inhibition by antibiotics to suit developing countries. Mutanda LN, et al. **East Afr Med J** 1989 Jul; 66(7):441–7
Ear, nose and throat problems in developing countries. Oburra HO. **East Afr Med J** 1990 Jan;67(1):1–3
Second look laparotomy—its role in the management of ovarian carcinoma. Rogo KO, et al. **East Afr Med J** 1989 Dec;66(12):844–50 (20 ref.)
Principles and problems of environmental pollution of groundwater resources with case examples from developing countries. Egboka BC, et al. **Environ Health Perspect** 1989 Nov;83:39–68 (91 ref.)
Preventable mortality: indicator or target? Applications in developing countries. **Epidemiol Bull** 1990;11(1):1–2, 7–9
Preventable mortality criteria. Cuba. **Epidemiol Bull** 1990; 11(1):9–14
Thiamine tetraphydrofurfuryl disulfide in nutritional polyneuropathy. Djoenaidi W, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(4):218–20
Some aspects of cardiac surgery in the tropics. Moraes CR. **Eur J Cardiothorac Surg** 1990;4(5):235–7
Seasonality studies in three developing countries: introduction and background. Ferro-Luzzi A. **Eur J Clin Nutr** 1990;44 Suppl 1:3–6
Seasonal energy stress in marginally nourished rural women: interpretation and integrated conclusions of a multicentre study in three developing countries. Ferro-Luzzi A. **Eur J Clin Nutr** 1990;44 Suppl 1:41–6
Energy expenditure of young Swazi women as measured by the doubly-labelled water method. Huss-Ashmore R, et al. **Eur J Clin Nutr** 1989 Nov;43(11):737–48
Body mass index and body energy stores in developing countries. Norgan NG. **Eur J Clin Nutr** 1990;44 Suppl 1:79–84
Pneumoconioses: the situation in developing countries. van Sprundel MP. **Exp Lung Res** 1990 Jan;16(1):5–13 (25 ref.)
Health for all: ten years and some distance to go [editorial] Berkeley JS. **Fam Pract** 1990 Mar;7(1):1–2
Working in the Third World: a guide for the family doctor. Watson WH. **Fam Pract** 1990 Mar;7(1):3–4
Utilization of tropical foods: cereals. **FAO Food Nutr Pap** 1989;47(1):1–114
Utilization of tropical foods: tropical beans. **FAO Food Nutr Pap** 1989;47(4):1–74
Utilization of tropical foods: tropical oil-seeds. **FAO Food Nutr Pap** 1989;47(5):1–82
Utilization of tropical foods: sugars, spices and stimulants. **FAO Food Nutr Pap** 1989;47(6):1–62
Standardised management of PID in a developing country. De Muylder X. **Genitourin Med** 1989 Aug;65(4):281–3
Syphilis, gonorrhoea and genital chlamydial infection in a Somali village. Ismail SO, et al. **Genitourin Med** 1990 Apr; 66(2):70–5
Future growth in biotechnology in the developing countries. Riazuddin S, et al. **Genome** 1989;31(2):1042–5
Biotechnology and the Third World: the missing link between research and applications. Zilinskas RA. **Genome** 1989; 31(2):1046–54 (11 ref.)
Use and evaluation of health services by women in a developing country: is age important? Keith PM, et al. **Gerontologist** 1990 Apr;30(2):262–8
Travel-related infections: prevention and treatment. Jong EC. **Hosp Pract [Off]** 1989 Nov 15;24(11):145–8, 151–4, 157–9 passim (9 ref.)
A grand alliance takes shape behind 'Facts for Life'. Allan D. **Hygie** 1989 Dec;8(4):10–2
Passage to child survival [editorial] Gunatilake S. **Hygie** 1989 Dec;8(4):3–4 (Eng, Fre)
Vaccine development. On relating immunology to the Third World: some studies on leprosy. Bloom BR, et al. **Immunol Suppl** 1989;2:87–9; discussion 91–2 (19 ref.)
Short notes on intrauterine devices. **Indian J Med Sci** 1990 May;44(5):129–33
Community control of B-thalassemia. Colah RB. **Indian J Med Sci** 1990 Feb;44(2):44–52
Study of systemic fungal infections in autopsy material. Jadhav MV, et al. **Indian J Med Sci** 1990 May;44(5):115–9
Complications in 8793 cases of diabetes mellitus 14 years study in Bombay Hospital, Bombay, India. Patel JC. **Indian J Med Sci** 1989 Jul;43(7):177–83
Ampicillin pharmacokinetics in Indian geriatric subjects. Raveendran R, et al. **Indian J Med Sci** 1990 Mar;44(3):61–4
Surveillance of salmonellae in India for drug resistance. Saxena SN, et al. **Indian J Med Sci** 1989 Jun;43(6):145–50
Height-weight relationship in young healthy Indian males. Verma SS, et al. **Indian J Med Sci** 1990 Apr;44(4):90–2
Persistent diarrhoea. **Indian J Pediatr** 1989 Jul-Aug; 56(4):545–8
Rotavirus vaccines. **Indian J Pediatr** 1989 Jul-Aug; 56(4):548–50
Vitamin A and diarrhoea. **Indian J Pediatr** 1989 Jul-Aug; 56(4):550–3
Spectrum of congenital malformations in the newborns from rural Maharashtra. Chaturvedi P, et al. **Indian J Pediatr** 1989 Jul-Aug;56(4):501–7
Study of 1,26,266 consecutive births for major congenital defects. Choudhury AR, et al. **Indian J Pediatr** 1989 Jul-Aug;56(4):493–9
Girl child in the SAARC countries. Ghosh S. **Indian J Pediatr** 1990 Jan-Feb;57(1):15–9
Measles in India: epidemiology and control. Narain JP, et al. **Indian J Pediatr** 1989 Jul-Aug;56(4):463–72 (42 ref.)
Abnormal findings associated with undescended testis in Nigerian children. Onuora VC, et al. **Indian J Pediatr** 1989 Jul-Aug;56(4):509–11
Growth chart design [letter; comment] Singh D, et al. **Indian J Pediatr** 1989 Jul-Aug;56(4):555–6 Comment on: Indian J Pediatr 1988 Jan-Feb;55(1 Suppl):S26–9.
Periodic deworming with pyrantel in an industrial township. Anjaneyulu G, et al. **Indian J Public Health** 1989 Jan–Mar; 33(1):5–8
"Withholding BCG—is it ethical?" [letter] Badrinath. **Indian J Public Health** 1989 Apr–Jun;33(2):86–8
Some epidemiological observations in encephalitis in children admitted to the Burdwan Medical College Hospital, Burdwan, West Bengal. Basu SN. **Indian J Public Health** 1989 Apr–Jun;33(2):75–6
Utilization of health services [editorial] Chakraborty AK. **Indian J Public Health** 1989 Jan–Mar;33(1):3–4
Bacteriological analysis of water samples from tubewells in Calcutta. Chattopadhya D, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):34
Psychotic disorders in the adult population of an urban slum. Chattopadhyay O, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):37
Diet intake patterns of non-Bengali Muslim mothers during pregnancy and lactation. Chaudhuri RN, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):82–3
Focus on complication of B.C.G. vaccination. Choudhuri N, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):80–1
Influence of maternal, foetal and socio-economic factors on neonatal morbidity: a study on hospital born babies. Choudhury G, et al. **Indian J Public Health** 1989 Apr–Jun; 33(2):66–70
Preliminary bacteriological studies on sewage-fed fish ponds of Titagarh municipality, West Bengal. Das MS, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):71–2
An analysis of health services coverage of a primary health centre in West Bengal. Ghosh BN, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):26–30
An epidemiological study of anaemia in village Balupura in the area of U.H.T.C. at Adarsh Nagar, Ajmer. Gupta A, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):73–4
Kala-azar—an enigmatic disease. Hati AK. **Indian J Public Health** 1989 Apr–Jun;33(2):45–54 (31 ref.)
Poliomyelitis problem in a U.I.P. district. Joshi PL, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):35–6
Utilisation of health care services by mothers in an urban slum community of Delhi. Kapil U, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):79
New horizons in public health. Ko UK. **Indian J Public Health** 1989 Apr–Jun;33(2):41–4
Institutional intra-natal care services—extent and pattern of its utilisation in rural areas. Mukherjee KL, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):31–2
Selection of informative correlates in blood pressure study: an analysis of covariance approach. Mukhopadhyay BB, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):84–5
Role of traditional healers and indigenous medical practitioners in health care. Nandan D, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):61–5
Re-orientation of medical education in India past, present and future. Poulose KP, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):55–8
An epidemiological study of goitre in two rural communities of Varanasi. Ray SK, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):9–14
An ElTor cholera outbreak in an endemic community of Calcutta. Sengupta PG, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):21–5
An outbreak of ElTor cholera in rural population of Barmer in Rajasthan State of India, Aug–Sep 1987. Soni GS, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):77–8
A study of height and weight of urban school-going children of Imphal. Yaima E, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):15–20
Systemic lupus erythematosus in Indian children. Ali US, et al. **Indian Pediatr** 1989 Sep;26(9):868–73
Pregnancy at teenage—risk factor for lower birth weight. Aras R, et al. **Indian Pediatr** 1989 Aug;26(8):823–5
Design and equipment for newborn care units in developing countries. Bhargava SK, et al. **Indian Pediatr** 1989 Aug; 26(8):745–53
Mother's attitude towards child's health education and play in ICDS and non-ICDS areas. Chaturvedi S, et al. **Indian Pediatr** 1989 Sep;26(9):888–93
Infant and early childhood mortality in urban slums under ICDS scheme—a prospective study. Choudhary SR, et al. **Indian Pediatr** 1989 Jun;26(6):544–9
Pattern of preventable diseases in Afghanistan: suggestions to reduce the morbidity and mortality at IGICH. Choudhry VP, et al. **Indian Pediatr** 1989 Jul;26(7):654–9
Childhood morbidity in mobile hospital camps in Himachal Pradesh. Dattal MS, et al. **Indian Pediatr** 1989 Aug; 26(8):820–3
Birth asphyxia and neurodevelopmental outcome. Deorari AK, et al. **Indian Pediatr** 1989 Aug;26(8):793–9
Measles antibody levels in 3 to 9 months old infants. Dongre ST, et al. **Indian Pediatr** 1989 Aug;26(8):775–9
Immune status following measles vaccination in infants and evaluation for the need of revaccination. Dutta AK, et al. **Indian Pediatr** 1989 Aug;26(8):765–72
Superstitious beliefs and practices during childhood illnesses. George B, et al. **Indian Pediatr** 1989 Sep;26(9):936–8
Integrated child development services programme. Ghosh S. **Indian Pediatr** 1989 Sep;26(9):855–62
Acute intestinal obstruction. Gopi VK, et al. **Indian Pediatr** 1989 Jun;26(6):525–30
Immunoglobulins profile of measles. Gupta PC, et al. **Indian Pediatr** 1989 Aug;26(8):780–4
Health status of rural school children. Gupta PK. **Indian Pediatr** 1989 Jun;26(6):581–4
Goodwin's high risk score and neonatal outcome: an evaluation. Harish R, et al. **Indian Pediatr** 1989 Aug; 26(8):800–3
Vaccine transport [letter] Kalra KK. **Indian Pediatr** 1989 Jul; 26(7):727–8
Monitoring and continuing education system in ICDS scheme—a module for national health programmes. Kapil U. **Indian Pediatr** 1989 Sep;26(9):863–7
Morbidity pattern in children below three years attending a rural health centre in Haryana. Kapil U, et al. **Indian Pediatr** 1989 Jun;26(6):530–2
Ultrasonic evaluation of complicated meningitis. Kapoor R, et al. **Indian Pediatr** 1989 Aug;26(8):804–8
Community participation in child health promotional activities at a primary health centre in Haryana. Kumar S, et al. **Indian Pediatr** 1989 Jul;26(7):710–3
Free samples of baby foods and feeding bottles [letter] Mathur GP. **Indian Pediatr** 1989 Aug;26(8):847
Late hemorrhagic disease of infancy. Merchant RH, et al. **Indian Pediatr** 1989 Jun;26(6):553–7
Transport of sick neonates: practical considerations. Mir NA, et al. **Indian Pediatr** 1989 Aug;26(8):755–64
Optimal age for measles vaccination. Mohan M, et al. **Indian Pediatr** 1989 Aug;26(8):739–42
Seasonal variation in birth weight patterns [letter] Murthy GV, et al. **Indian Pediatr** 1989 Jun;26(6):612
Hemorrhagic disease of the newborn [editorial] [see comments] Narang A. **Indian Pediatr** 1989 Jun;26(6):523–4 Comment in: Indian Pediatr 1989 Nov;26(11):1168–9.
Acute dapsone poisoning [letter] Nayak US, et al. **Indian Pediatr** 1989 Jul;26(7):730–1
National seminar on reducing incidence of cerebral palsy in children. Paul D. **Indian Pediatr** 1989 Sep;26(9):929–31
Prescription audit of under six children living in periurban areas. Prakash O, et al. **Indian Pediatr** 1989 Sep;26(9):900–4
Use of body mass index for assessing the growth status of infants. Raman L, et al. **Indian Pediatr** 1989 Jul;26(7):630–5
Childbirth spacing in a rural community of Delhi: profile in various marriage cohorts by decades. Sethi NK, et al. **Indian Pediatr** 1989 Sep;26(9):894–9
Immunological profile in neonatal hyperbilirubinemia. Sethi RK, et al. **Indian Pediatr** 1989 Aug;26(8):787–92
Care of the newborn by traditional birth attendants. Sharma N, et al. **Indian Pediatr** 1989 Jul;26(7):649–53
Pertussis vaccine [letter] Shendurinikar N. **Indian Pediatr** 1989 Sep;26(9):964–5

Factors responsible for refusal of medical care. Singh J, et al. **Indian Pediatr** 1989 Jul;26(7):707–9
DC cardioversion of supraventricular tachycardia in neonate [letter] Singh S, et al. **Indian Pediatr** 1989 Aug;26(8):846–7
Severe lead intoxication in a family caused by use of residential premises for battery manufacturing. Singh S, et al. **Indian Pediatr** 1989 Jul;26(7):718–20
Appropriate technologies for mother and child health care in developing countries. Vani SN. **Indian Pediatr** 1989 Nov; 26(11):1124–30
Disaster epidemiology: or why most international disaster relief is ineffective. Seaman J. **Injury** 1990 Jan;21(1):5–8; discussion 15–6
Technology, coronary heart disease and its risk factors. Adamapoulos PN, et al. **Int Angiol** 1989 Jul–Sep;8(3):125–8
A look at the careers of women dentists in developing countries. Mmembe CK. **Int Dent J** 1990 Jun;40(3):145–8
Emerging patterns of disability distribution in developing countries. Mitchell RA, et al. **Int Disabil Stud** 1989 Oct–Dec;11(4):145–8
Kuwait drug addiction scene: a changing pattern? Bilal AM. **Int J Addict** 1989 Dec;24(12):1137–44
Beverage alcohol spending in Singapore: a potential development constraint? Curry RL Jr. **Int J Addict** 1989 Aug;24(8):821–8
Expanded programme on immunization [letter] **Int J Epidemiol** 1990 Mar;19(1):219–20
The incidence of injuries in young people: II. Log–linear multivariable models for risk factors in a collaborative study in Brazil, Chile, Cuba and Venezuela. Bangdiwala SI, et al. **Int J Epidemiol** 1990 Mar;19(1):125–32
The incidence of injuries in young people: I. Methodology and results of a collaborative study in Brazil, Chile, Cuba and Venezuela. Bangdiwala SI, et al. **Int J Epidemiol** 1990 Mar;19(1):115–24
Birthweight patterns in Harare, Zimbabwe. Dole N, et al. **Int J Epidemiol** 1990 Mar;19(1):98–100
Knowledge and attitudes of primary health care personnel concerning mental health problems in developing countries: a follow–up study. Ignacio LL, et al. **Int J Epidemiol** 1989 Sep;18(3):669–73
Development of rapid epidemiologic assessment methods to evaluate health status and delivery of health services. Smith GS. **Int J Epidemiol** 1989;18(4 Suppl 2):S2–15 (104 ref.)
Measurement of the personal cost of illness due to some major water–related diseases in an Indian rural population. Verma BL, et al. **Int J Epidemiol** 1990 Mar;19(1):169–76
Serum concentrations of pituitary and testicular hormones in infertile Nigerian males. Modebe O. **Int J Fertil** 1989 Nov–Dec;34(6):408–10
Professional responsibility in maternity care: role of medical audit. Bhatt RV. **Int J Gynaecol Obstet** 1989 Sep; 30(1):47–50
Pattern of primary gynecological malignancies as seen in a tertiary hospital situated in the Rivers State of Nigeria. Briggs ND, et al. **Int J Gynaecol Obstet** 1990 Feb; 31(2):157–61
Incidental tuberculous endometritis in premenstrual curettings from infertile women in eastern Nigeria. Gini PC, et al. **Int J Gynaecol Obstet** 1990 Feb;31(2):141–4
Mortality in acute gynecology: a developing country perspective. Rogo KO. **Int J Gynaecol Obstet** 1989 Dec; 30(4):343–7
Tribunal on the policies of the International Monetary Fund and the World Bank, West Berlin, September 26–29, 1988: verdict. Permanent Peoples' Tribunal. **Int J Health Serv** 1990;20(2):329–47
Abortion policy and women's health in developing countries. Dixon–Mueller R. **Int J Health Serv** 1990;20(2):297–314
Technology and women's health in developing countries. MacCormack CP. **Int J Health Serv** 1989;19(4):681–92 (72 ref.)
Disabled and elderly people in the First, Second and Third Worlds. Bowe FG. **Int J Rehabil Res** 1990;13(1):1–14
A community–based rehabilitation programme for pre–school disabled children in Guyana. O'Toole B. **Int J Rehabil Res** 1988;11(4):323–34
Biomedical potential for symptom choice in Koro. Chowdhury AN. **Int J Soc Psychiatry** 1989 Winter; 35(4):329–32
Rural population's opinions about the causes of mental illness, modern psychiatric help–sources and traditional healers in Turkey. Eskin M. **Int J Soc Psychiatry** 1989 Winter; 35(4):324–8
Consultation liaison psychiatry in a Kuwaiti general hospital. Fido AA, et al. **Int J Soc Psychiatry** 1989 Autumn; 35(3):274–9
Reliability and factor structure of the Portuguese version of Self–Reporting Questionnaire. Iacoponi E, et al. **Int J Soc Psychiatry** 1989 Autumn;35(3):213–22
Factors influencing long–term psychiatric hospitalisation of the elderly in Kuwait. Malasi TH, et al. **Int J Soc Psychiatry** 1989 Autumn;35(3):223–30
Tropical ophthalmology. Proceedings of the XXVIth International Congress of Ophthalmology. 18–24 March 1990, Singapore. **Int Ophthalmol** 1990 May;14(3):133–230
High volume efficient cataract surgery in developing countries. Christy NE. **Int Ophthalmol** 1990 May; 14(3):141–6 (10 ref.)
Magnitude and causes of blindness in the developing world. Foster A, et al. **Int Ophthalmol** 1990 May;14(3):135–40 (12 ref.)
Training in community ophthalmology. Johnson GJ, et al. **Int Ophthalmol** 1990 May;14(3):221–6
The choice of cataract surgical techniques in developing nations: operations research considerations. Pizzarello L, et al. **Int Ophthalmol** 1990 May;14(3):147–54 (14 ref.)
Trachoma. Taylor HR. **Int Ophthalmol** 1990 May;14(3):201–4 (24 ref.)
Appropriate eye drugs for developing countries. Taylor J. **Int Ophthalmol** 1990 May;14(3):173–9 (0 ref.)
Ophthalmology in the Third World. **Int Ophthalmol Clin** 1990 Winter;30(1):1–67
Systems development for ophthalmic care in appropriate nations: an American approach. Paton D. **Int Ophthalmol Clin** 1990 Winter;30(1):61–3
Blindness from trauma in developing nations. Schwab L. **Int Ophthalmol Clin** 1990 Winter;30(1):28–9 (5 ref.)
Cataract blindness in developing nations. Schwab L. **Int Ophthalmol Clin** 1990 Winter;30(1):16–8 (11 ref.)
Health problems in developing countries: an overview. Toole MJ, et al. **Int Ophthalmol Clin** 1990 Winter;30(1):2–6 (19 ref.)
Priority health interventions in developing countries. Toole MJ, et al. **Int Ophthalmol Clin** 1990 Winter;30(1):7–11 (25 ref.)
Avoiding illness in the expatriate. Turner–Hubbard K. **Int Ophthalmol Clin** 1990 Winter;30(1):64–5 (3 ref.)
A clinical sickness score for the critically ill in Central Africa. Watters DA, et al. **Intensive Care Med** 1989;15(7):467–70
Exporting death: a new opium war. Holtz T. **Iowa Med** 1990 Apr;80(4):203–4
Smoking and hypertension: Indian scenario. Anand MP, et al. **J Assoc Physicians India** 1990 Apr;38(4):283–4
Cerebral malaria in pregnancy. Arya TV, et al. **J Assoc Physicians India** 1989 Sep;37(9):592–3
Yellow oleander poisoning [letter] Avasthi R. **J Assoc Physicians India** 1990 Mar;38(3):250
Epidemiology of aluminium phosphide poisoning. Need for a survey [editorial] Bajaj R, et al. **J Assoc Physicians India** 1990 Mar;38(3):197–8
Soluble antigen fluorescent antibody test in the serodiagnosis of tuberculous meningitis. Behari M, et al. **J Assoc Physicians India** 1989 Aug;37(8):499–501
Growing injustice—a short communique to the editor [letter] Bhatia RS. **J Assoc Physicians India** 1989 Dec;37(12):795
Why people instead of patients are hospitalised? [letter] Bhatia RS. **J Assoc Physicians India** 1989 Jun;37(6):412–3
Geriatric tuberculosis—an individualised care at the national level suggested [letter] Bhatia RS, et al. **J Assoc Physicians India** 1990 Mar;38(3):253–4
Accidental intestinal myiasis [letter] Bhatia RS. **J Assoc Physicians India** 1989 Aug;37(8):547–8
Chronic inflammatory polyarthritides in a select population of young men. A prospective study. Chopra A, et al. **J Assoc Physicians India** 1989 Dec;37(12):748–51
Haemoglobin E and A2 in agricultural and migratory populations of West Bengal. A preliminary report. Choudhury AR, et al. **J Assoc Physicians India** 1989 Sep; 37(9):588–9
Temporal arteritis. The Indian scene. Desai MC, et al. **J Assoc Physicians India** 1989 Sep;37(9):609–11
Meningococcal meningitis [letter] Ganjoo RK, et al. **J Assoc Physicians India** 1989 Dec;37(12):798–9
Management of hyperlipidaemia: few more facts [letter; comment] Garg RK, et al. **J Assoc Physicians India** 1989 Nov;37(11):728 Comment on: J Assoc Physicians India 1989 Apr;37(4):280–3.
Is single dose of metronidazole sufficient for intestinal amoebiasis? [letter] Garg RK. **J Assoc Physicians India** 1990 Mar;38(3):246
Tuberculosis in the Indian scene. From a clinician's angle. Gopinathan VP. **J Assoc Physicians India** 1989 Aug; 37(8):525–8 (40 ref.)
Need for medical oncology chapter [letter] Kumar L. **J Assoc Physicians India** 1990 Mar;38(3):244
Colonoscopic polypectomy. North Indian experience. Kumar N, et al. **J Assoc Physicians India** 1990 Apr;38(4):272–4
Conjugal motor neurone disease. Maloo JC, et al. **J Assoc Physicians India** 1989 Dec;37(12):789–90
HIV infection after a single heterosexual contact [letter] Mehta BC. **J Assoc Physicians India** 1989 Dec;37(12):801–2
Retinopathy in insulin dependent diabetes mellitus (IDDM) in south India. Mohan R, et al. **J Assoc Physicians India** 1989 Jun;37(6):370–3
Leptospirosis—need for urgent action [letter] Muthusethupathi MA, et al. **J Assoc Physicians India** 1989 Jul;37(7):477
Non–surgical treatment of acute upper gastrointestinal haemorrhage [editorial] Nanivadekar SA. **J Assoc Physicians India** 1989 Aug;37(8):493–4
Serum rhodanese in goitre and calcific pancreatitis of tropics. Narendranathan M, et al. **J Assoc Physicians India** 1989 Oct;37(10):648–9
Management strategies for angina pectoris [letter] Rao AV. **J Assoc Physicians India** 1990 Mar;38(3):244–5
Absence of HIV infection in an Indian prison [letter] Rodrigues JJ, et al. **J Assoc Physicians India** 1990 Mar; 38(3):249
Cefotaxime in acute urinary tract infection [letter] Shanmugam S. **J Assoc Physicians India** 1989 Dec; 37(12):795
Proximal muscle weakness following snake bite [letter] Shrivastava MP, et al. **J Assoc Physicians India** 1990 Mar; 38(3):249–50
Kala–azar mortality in hospitalized cases in north Bihar, India. Singh NK, et al. **J Assoc Physicians India** 1989 Aug; 37(8):514–6
Live dogs and dead men [letter; comment] Somayajulu MV, et al. **J Assoc Physicians India** 1989 Sep;37(9):617 Comment on: J Assoc Physicians India 1987 May;35(5):393–4.
Fluorosis in Maharashtra. Somvanshi PR, et al. **J Assoc Physicians India** 1990 Mar;38(3):217–9
Orchitis—an unusual complication of typhoid fever [letter] Srivastava MP, et al. **J Assoc Physicians India** 1989 Oct; 37(10):674
National health care system [letter] Zachariah P. **J Assoc Physicians India** 1990 Apr;38(4):311–2
Management of medical technology in developing countries. Mckie J. **J Biomed Eng** 1990 May;12(3):259–61
Recent evidence on trends and differentials in Bangladesh fertility. Amin R, et al. **J Biosoc Sci** 1990 Apr;22(2):225–30
Post–partum events and fertility control in Kinshasa, Zaïre. Bertrand JT, et al. **J Biosoc Sci** 1990 Apr;22(2):197–211
The effect of initiation of child supplementation on resumption of post–partum menstruation. Jones RE. **J Biosoc Sci** 1990 Apr;22(2):173–89
Child survival and its effect on mortality of siblings in Bangladesh. Majumder AK. **J Biosoc Sci** 1990 Jul; 22(3):333–47
Socioeconomic and health care determinants of child survival in Kuwait. Shah NM, et al. **J Biosoc Sci** 1990 Apr; 22(2):239–53
Teenage childbearing: structural determinants in developing countries. Trent K. **J Biosoc Sci** 1990 Jul;22(3):281–92
Age at first marriage and fertility in rural Anhui, China. Yang Q. **J Biosoc Sci** 1990 Apr;22(2):143–57
An epidemiological study of behaviour problems in school children in urban areas of Beijing. Wang YF, et al. **J Child Psychol Psychiatry** 1989 Nov;30(6):907–12
Computer on the mountain: technology in remote areas of the developing world. Lee RV. **J Clin Epidemiol** 1990; 43(8):841–3
Hunger pain: a poor indicator of peptic ulcer in a developing country. León–Barúa R, et al. **J Clin Gastroenterol** 1989 Dec;11(6):621–4
Secondary school teachers' knowledge and views about drug abuse in Ogun State, Nigeria—a pilot survey. Adelekan ML, et al. **J Drug Educ** 1990;20(2):163–74
Access to health care in urban areas of developing societies. Fosu GB. **J Health Soc Behav** 1989 Dec;30(4):398–411
Environmental protection and its trends in developing countries. Bencko V, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):497–504
Intra–uterine growth retardation [editorial] Chakraborty B. **J Indian Med Assoc** 1989 Jun;87(6):129–30
Let's talk health [editorial] Dutta GP. **J Indian Med Assoc** 1989 Apr;87(4):81–2
Nerve injuries in neonates. Goel SP, et al. **J Indian Med Assoc** 1989 Jun;87(6):132–4
Diabetes mellitus in geriatric females. Mishra VN, et al. **J Indian Med Assoc** 1989 Jun;87(6):138–9
The present status of cholera vaccine [editorial] Pal SC, et al. **J Indian Med Assoc** 1989 May;87(5):105–6
Pattern of paediatric solid malignant tumours in southern Orissa. Panda BK, et al. **J Indian Med Assoc** 1989 Jun; 87(6):136–7
Maternal determinants of intra–uterine growth retardation. Radhakrishnan S, et al. **J Indian Med Assoc** 1989 Jun; 87(6):130–2
Special considerations for managing suspected human immunodeficiency virus infection and AIDS in patients from developing countries. Kreiss JK, et al. **J Infect Dis** 1990 Oct;162(4):955–60 (32 ref.)
Rendezvous in Rhamu. Teaching and learning with traditional birth attendants in rural Kenya. Steele C. **J Nurse Midwifery** 1990 Jan–Feb;35(1):53–8
Resident training in international occupational health: toward a new perspective. Cordes DH, et al. **J Occup Med** 1989 Nov;31(11):897–8
Status of occupational health in Nigeria [letter] Oleru UG. **J Occup Med** 1989 Nov;31(11):938–9
Ethical dilemmas of health care in the developing nations. Moazam F, et al. **J Pediatr Surg** 1990 Apr;25(4):438–41
Psychiatric morbidity in medical and surgical wards of a Nigerian general hospital. Abiodun OA, et al. **J Psychosom Res** 1990;34(4):409–14
Health care financing in Korea: private market dilemmas for a developing nation. Flynn ML, et al. **J Public Health Policy** 1990 Summer;11(2):238–53
Mammography: a critical evaluation of its role in breast cancer screening, especially in developing countries. Miller AB. **J Public Health Policy** 1989 Winter;10(4):486–98
Soak–away systems and possible groundwater pollution problems in developing countries. Olanrewaju D. **J R Soc Health** 1990 Jun;110(3):108–12
Road safety management in developing countries. Saunders RA. **J R Soc Health** 1990 Feb;110(1):23–8
Watson–Jones, the book and the Third World. Wilson JN. **J R Soc Med** 1990 Jun;83(6):352–5
HIV infection and AIDS in Africa and the Third World. Kerr DL. **J Sch Health** 1989 Oct;59(8):369–70
Systematic evaluation of sexual functioning in eunuch–transvestites: a study of 12 cases. Jani S, et al. **J Sex Marital Ther** 1990 Summer;16(2):103–10

Effects of prolonged deprivation on learned helplessness. Mal S, et al. **J Soc Psychol** 1990 Apr;130(2):191–7
Effect of prolonged deprivation on attributional style. Singh R, et al. **J Soc Psychol** 1989 Aug;129(4):443–50
Personality concomitants of loneliness among black and white male Zimbabwean adolescents. Wilson D, et al. **J Soc Psychol** 1989 Aug;129(4):577–8
A study of financial resources devoted to research on health problems of developing countries. Murray CJ, et al. **J Trop Med Hyg** 1990 Aug;93(4):229–55
Aetiological variables for low birth weight [letter] Abidoye RO, et al. **J Trop Pediatr** 1989 Oct;35(5):269–70
Viral meningitis and encephalitis in Saudi Arabia. Bakir TF. **J Trop Pediatr** 1989 Oct;35(5):211–3
Detection of cardiac problems among school children by health screening. Chan KY, et al. **J Trop Pediatr** 1989 Oct; 35(5):221–4
Physical growth of Chinese children from birth to 6 years old in urban and rural areas in 1985. Ching RJ, et al. **J Trop Pediatr** 1989 Oct;35(5):255–60
Enzyme-linked immuno-assay for the detection of mycobacterium tuberculosis specific IgG antibody in the cerebrospinal fluid in cases of tuberculous meningitis. Dole M, et al. **J Trop Pediatr** 1989 Oct;35(5):218–20
Safe motherhood in the 1990s [editorial] Ebrahim GJ. **J Trop Pediatr** 1989 Dec;35(6):272–3
Half a decade of neonatal sepsis, Riyadh, Saudi Arabia. Haque KN, et al. **J Trop Pediatr** 1990 Feb;36(1):20–3
Poliovirus infections in Saudi Arabia [letter] Hossain A, et al. **J Trop Pediatr** 1989 Oct;35(5):265–6
Agricultural development and nutritional status in Malawi. Kurth A. **J Trop Pediatr** 1989 Oct;35(5):250–4
Malnutrition among children of adolescent mothers in a squatter community of Recife, Brazil. Lima M, et al. **J Trop Pediatr** 1990 Feb;36(1):14–9
Viral aetiology of acute respiratory infections in children in north India. Misra PK, et al. **J Trop Pediatr** 1990 Feb; 36(1):24–7
Epidemiological and clinical features of rotavirus associated acute infantile diarrhoea in Cairo, Egypt. el-Mougi M, et al. **J Trop Pediatr** 1989 Oct;35(5):230–3
Pattern of pediatric gastrointestinal disorders in the eastern province of Saudi Arabia [letter] el Mouzan MI, et al. **J Trop Pediatr** 1989 Oct;35(5):264–5
Postnatal weight gain of exclusively breast fed preterm African infants. Muhudhia SO, et al. **J Trop Pediatr** 1989 Oct;35(5):241–4
Determinants for breast feeding and bottle feeding in Botswana. Omondi LO, et al. **J Trop Pediatr** 1990 Feb; 36(1):28–33
Toxoplasmosis in young Jamaicans. Rawlins SC, et al. **J Trop Pediatr** 1989 Oct;35(5):234–6
Indian preschool children—a profile of stunting and wasting. Sastry JG, et al. **J Trop Pediatr** 1989 Oct;35(5):237–40
Health still only for some by the year 2000? Schuftan C. **J Trop Pediatr** 1989 Aug;35(4):197–8
Weight gain in supervised and take-home feeding programmes in Chad. Stefanak MA, et al. **J Trop Pediatr** 1989 Oct;35(5):214–7
Use and limits of anthropometric indicators in emergency assessment of famine situations: an example from northern Uganda [letter] Tessier SF, et al. **J Trop Pediatr** 1989 Oct; 35(5):267–9
Field trial of TALC direct recording scale [news] Weeks AD. **J Trop Pediatr** 1989 Oct;35(5):261–2
Newborns vitamin A in relation to sex and birth weight. Yassai MB, et al. **J Trop Pediatr** 1989 Oct;35(5):247–9
Blood pressure profiles of a group of African children in the first year of life. Youmbissi TJ, et al. **J Trop Pediatr** 1989 Oct;35(5):245–6
Prevention of maternal deaths in developing countries [letter; comment] Campos-Outcalt D. **JAMA** 1989 Nov 17; 262(19):2683–4 Comment on: JAMA 1989 Jul 21;262(3):376–9.
Prevention of excess mortality in refugee and displaced populations in developing countries. Toole MJ, et al. **JAMA** 1990 Jun 27;263(24):3296–302
Ultrasound scanning as a screening technique for hydatidosis in developing countries. Saint Martin GA, et al. **JCU** 1988 May;16(4):233–7
X rays for the developing world [editorial] **Lancet** 1989 Oct 21;2(8669):960
Loperamide poisoning in children [letter] [see comments] Bhutta TI, et al. **Lancet** 1990 Feb 10;335(8685):363 Comment in: Lancet 1990 Mar 31;335(8692):788.
Lag between discovery and production of new vaccines for the developing world. Dupuy JM, et al. **Lancet** 1990 Sep 22;336(8717):733–4
Storage of cerebrospinal fluid on paper [letter] Garcia E, et al. **Lancet** 1989 Oct 28;2(8670):1046
Modern vaccines. Practice in developing countries. Hall AJ, et al. **Lancet** 1990 Mar 31;335(8692):774–7 (15 ref.)
Tuberculosis and human immunodeficiency virus infection in developing countries [see comments] Harries AD. **Lancet** 1990 Feb 17;335(8686):387–90 (37 ref.) Comment in: Lancet 1990 Apr 28;335(8696):1044.
Third world debt crisis [letter] Krock E. **Lancet** 1989 Oct 14;2(8668):922
Drug economics in developing countries [letter] [published erratum appears in Lancet 1990 Mar 17;335(8690):674] Litvack JI, et al. **Lancet** 1990 Jan 6;335(8680):61
Ultrasonography and scintigraphy in liver disease in developing countries. A retrospective survey. Maharaj B, et al. **Lancet** 1989 Oct 7;2(8667):853–6
A device for domiciliary neonatal resuscitation. Milner AD, et al. **Lancet** 1990 Feb 3;335(8684):273–5
Loperamide poisoning in children [letter; comment] Minton NA, et al. **Lancet** 1990 Mar 31;335(8692):788 Comment on: Lancet 1990 Feb 10;335(8685):363.
World tuberculosis burden [letter] Murray CJ. **Lancet** 1990 Apr 28;335(8696):1043–4
Improving Third World health [letter; comment] Wood PB. **Lancet** 1989 Oct 28;2(8670):1042 Comment on: Lancet 1989 Sep 2;2(8662):551–2.
Maryland and international health. Baker TD. **Md Med J** 1989 Oct;38(10):797–800
Geographic epidemiology. Buck AA. **Md Med J** 1989 Oct; 38(10):833–8
Battling blindness throughout the world: a team of scientists in Maryland leads the way. Humphrey JH, et al. **Md Med J** 1989 Oct;38(10):825–8
Is there a greater incidence of abdominal pregnancy in developing countries? Report of four cases. Alto W. **Med J Aust** 1989 Oct 2;151(7):412, 414
Prevention and management of problems related to alcohol abuse in Papua New Guinea through primary health care. Johnson FY. **Med Law** 1989;8(2):175–89
A phenomenological analysis of African adolescents' meaning of dagga use within changing social relations. Mkhize H. **Med Law** 1989;8(2):149–56
The provision for health needs in less developed countries with reference to Bophuthatswana. Procter J. **Med Law** 1989;8(6):581–7
Health informatics education in the Third World. Rienhoff O. **Methods Inf Med** 1989 Nov;28(4):270–2
Modern medical training confronts Guatemalan poverty. Westreich L. **Minn Med** 1990 Jan;73(1):19, 21–2
Mortality in developed countries. **MMWR** 1990 Apr 6; 39(13):205, 207–9
Tuberculosis in developing countries. **MMWR** 1990 Aug 24; 39(33):561, 567–9
Essential national health research. A key to equity in development. Evans JR. **N Engl J Med** 1990 Sep 27; 323(13):913–5
Health problems associated with urban poverty: a narrowing gap between the Third and First Worlds. Kaye K. **N Y State J Med** 1989 Dec;89(12):649–51
Rediscovering respect for nature: an imperative for ecological policy and sustainable development. Hoyte HD. **Nutr Health** 1990;6(4):165–71
Strategies to influence nutrition behaviour. Steven MC. **Nutr Health** 1990;6(4):189–204
Third World medicine: Dominican Republic. Ravin JG. **Ohio Med** 1990 Aug;86(8):573–6
Lens implantation in developing countries [letter] Alpar JJ. **Ophthalmic Surg** 1990 Apr;21(4):300
Difficulties of proper ophthalmic care in developing countries [letter] Kaiser RF. **Ophthalmic Surg** 1990 Feb; 21(2):144–5
Extracapsular cataract and lens implant surgery in developing countries: keeping it simple. Spencer MF. **Ophthalmic Surg** 1990 Jun;21(6):447–52
The Pelotas (Brazil) birth cohort study 1982–1987: strategies for following up 6,000 children in a developing country. Barros FC, et al. **Paediatr Perinat Epidemiol** 1990 Apr; 4(2):205–20
Vaccine-preventable disease and immunization in the developing world. Bart KJ, et al. **Pediatr Clin North Am** 1990 Jun;37(3):735–56 (85 ref.)
Vaccines for foreign travel. Wolfe MS. **Pediatr Clin North Am** 1990 Jun;37(3):757–69 (35 ref.)
Effect of monovalent measles and trivalent measles-mumps-rubella vaccines at various ages and concurrent administration with hepatitis B vaccine. Huang LM, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):461–5
Shigellosis: recent progress, persisting problems and research issues. Keusch GT, et al. **Pediatr Infect Dis J** 1989 Oct; 8(10):713–9 (33 ref.)
Appropriate training in paediatric nephrology for developing countries: hypothesis and proposals. Grunberg J. **Pediatr Nephrol** 1990 May;4(3):290–5 (18 ref.)
Teaching pharmacists about family planning. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):20–6
Evaluating pharmacist training. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):26–8
Buying contraceptives at the pharmacy. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):3–11
Nutritional impacts of an increasing fuelwood shortage in rural households in developing countries. Brouwer ID, et al. **Prog Food Nutr Sci** 1989;13(3–4):349–61 (44 ref.)
Frequent reproductive cycling: does it lead to nutritional depletion of mothers? Merchant K, et al. **Prog Food Nutr Sci** 1988;12(4):339–69 (89 ref.)
Perspectives in the treatment of mental disorders in developing countries: Africa. Olatawura MO. **Prog Neuropsychopharmacol** 1979;3(1–3):119–23 (10 ref.)
The Knud Jansen lecture. Technological choices in prosthetics and orthotics for developing countries. Sethi PK. **Prosthet Orthot Int** 1989 Dec;13(3):117–24
Changing trends in acute renal failure in third-world countries—Chandigarh study. Chugh KS, et al. **Q J Med** 1989 Dec;73(272):1117–23
Travel to developing countries: pre-departure medical advice. Romulo RL, et al. **R I Med J** 1990 May;73(5):181–7
Use of ultrasound in Nepal. Hussain P. **Radiogr Today** 1990 Jan;56(632):13–5
Epidemiology of travelers' diarrhea and relative importance of various pathogens. Black RE. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S73–9 (62 ref.)
Travelers' diarrhea: microbiologic bases for prevention and treatment. Sack RB. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S59–63 (31 ref.)
Serum anti-gliadin antibody profile in childhood protracted diarrhoea due to coeliac disease and other causes in a developing country. Khoshoo V, et al. **Scand J Gastroenterol** 1989 Dec;24(10):1212–6
The immunologist and the developing world. Hanson LA, et al. **Scand J Immunol** 1990 Feb;31(2):127–31
High fertility in sub-Saharan Africa. Caldwell JC, et al. **Sci Am** 1990 May;262(5):118–25
Development, "welfare," and fertility: a simple macroanalysis. Raymont A. **Soc Biol** 1989 Spring-Summer; 36(1–2):110–3
International collaboration for postgraduate psychiatric education [editorial] Orley J. **Soc Psychiatry Psychiatr Epidemiol** 1990 Mar;25(2):65–6
Managing ecological upheavals: a Third World perspective. Desai B. **Soc Sci Med** 1990;30(10):1065–72
Design, implementation, and evaluation of a community financing scheme for hospital care in developing countries: a pre-paid health plan in the Bwamanda health zone, Zaire. Moens F. **Soc Sci Med** 1990;30(12):1319–27
Research on AIDS interventions in developing countries: state of the art. Schopper D. **Soc Sci Med** 1990; 30(12):1265–72 (73 ref.)
Transnational tobacco companies and health in underdeveloped countries: recommendations for avoiding a smoking epidemic. Stebbins KR. **Soc Sci Med** 1990; 30(2):227–35
Cost and efficiency considerations in community-based trials of vitamin A in developing countries. Tielsch JM, et al. **Stat Med** 1990 Jan–Feb;9(1–2):35–41; discussion 41–3
Women's health in the Third World: the impact of unwanted pregnancy. Proceedings of the Second Christopher Tietze International Symposium. Rio de Janeiro, October, 1988. **Suppl Int J Gynecol Obstet** 1989;3:1–174
Breastfeeding practices in the developing world. Chiang Mai Lactation Project. **Suppl Int J Gynecol Obstet** 1989; 1:129–32
Commentary on abortion law and practice in Cuba. Alvarez-Lajonchere C. **Suppl Int J Gynecol Obstet** 1989; 3:93–5
Commentary on a community-based approach to reproductive health care. Society for Education, Action and Research in Community Health Team. Bang R, et al. **Suppl Int J Gynecol Obstet** 1989;3:125–9
Abortion laws and policies: challenges and opportunities [see comments] Cook RJ. **Suppl Int J Gynecol Obstet** 1989; 3:61–87 (200 ref.) Comment in: Suppl Int J Gynecol Obstet 1989;3:89–92.
Commentary on women's reproductive health: means or end? Faúndes A, et al. **Suppl Int J Gynecol Obstet** 1989;3:115–8
The Christopher Tietze International Symposium: an overview. Germain A. **Suppl Int J Gynecol Obstet** 1989; 3:1–8
Causes and consequences of unwanted pregnancy from Asian women's perspectives. Kabir SM. **Suppl Int J Gynecol Obstet** 1989;3:9–14
Preventing and managing complications of induced abortion in Third World countries. Ladipo OA. **Suppl Int J Gynecol Obstet** 1989;3:21–8 (21 ref.)
Commentary on unwanted pregnancy and abortion complications in Cameroun. Leke RJ. **Suppl Int J Gynecol Obstet** 1989;3:33–5
Abortion counseling: attention to the whole woman. Londoño ML. **Suppl Int J Gynecol Obstet** 1989;3:169–74
Liberty, utility, and justice: an ethical approach to unwanted pregnancy. Macklin R. **Suppl Int J Gynecol Obstet** 1989; 3:37–49
Commentary on the ethics of induced abortion from a feminist perspective. Mair LM. **Suppl Int J Gynecol Obstet** 1989;3:57–60
Commentary on the causes and consequences of unwanted pregnancy from an African perspective. Mashalaba NN. **Suppl Int J Gynecol Obstet** 1989;3:15–9
Commentary on pain management during abortion from a Latin American physician's perspective. Nasser J. **Suppl Int J Gynecol Obstet** 1989;3:141–3
Unwanted pregnancy: challenges for health policy. Pinotti JA, et al. **Suppl Int J Gynecol Obstet** 1989;3:97–102
The need for a reproductive health approach. Sai FT, et al. **Suppl Int J Gynecol Obstet** 1989;3:103–13 (40 ref.)
Commentary on menstrual regulation as a health service: challenges in Indonesia. Samil RS. **Suppl Int J Gynecol Obstet** 1989;3:29–32 (15 ref.)
Control of pain for women undergoing abortion. Stubblefield PG. **Suppl Int J Gynecol Obstet** 1989;3:131–40 (28 ref.)
Commentary on the law and abortion in the Philippines [comment] Tadiar AF. **Suppl Int J Gynecol Obstet** 1989; 3:89–92 Comment on: Suppl Int J Gynecol Obstet 1989;3:61–87.
Commentary on women-centered reproductive health services. Toro OL. **Suppl Int J Gynecol Obstet** 1989; 3:119–23
Commentary on unwanted pregnancy, induced abortion, and professional ethics: a concerned physician's point of view.

Villarreal J. **Suppl Int J Gynecol Obstet** 1989;3:51–5
The significance and scope of reproductive tract infections among Third World women. Wasserheit JN. **Suppl Int J Gynecol Obstet** 1989;3:145–68 (149 ref.)
Tobacco and the Third World. Crofton J. **Thorax** 1990 Mar; 45(3):164–9 (67 ref.)
Opportunistic infections in AIDS in developed and developing countries. Fleming AF. **Trans R Soc Trop Med Hyg** 1990;84 Suppl 1:1–6 (65 ref.)
Adult mortality in developing countries. Murray CJ, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):1–2 (0 ref.)
Impact of human immunodeficiency virus on transmission and severity of tuberculosis. Nunn P, et al. **Trans R Soc Trop Med Hyg** 1990;84 Suppl 1:9–13 (34 ref.)
Poliomyelitis in developing countries: lower limb paralysis and injections. Wyatt HV. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):545–9
Commercialization in human organs: a middle eastern perspective. Abouna GM, et al. **Transplant Proc** 1990 Jun; 22(3):918–21
Organ transplantation: the Latin-American legislative response. Fuenzalida-Puelma HL. **Transplant Proc** 1990 Jun;22(3):961–2
Values gained and lost in live unrelated renal transplantation. Johny KV, et al. **Transplant Proc** 1990 Jun;22(3):915–7
How can one balance duty to all cultures and ethnic groups with effective procurement and equitable distribution of organs for clinical transplantation? New evidence of the key importance of local primacy for a successful organ donation effort. Rapaport FT, et al. **Transplant Proc** 1990 Jun;22(3):1007–9
Unconventional renal transplantation in India. Reddy KC, et al. **Transplant Proc** 1990 Jun;22(3):910–1
The practice of unconventional renal transplantation (UCRT) at a single centre in India. Thiagarajan CM, et al. **Transplant Proc** 1990 Jun;22(3):912–4
Transplantation as a health priority in India. Yadav RV. **Transplant Proc** 1990 Jun;22(3):908–9
Neonatology in the developing world. Part 2. Brewster D. **Trop Doct** 1989 Oct;19(4):147–51
Personal view ... strategy for prevention of deafness in the Third World [see comments] Brobby GW. **Trop Doct** 1989 Oct;19(4):152–4 Comment in: Trop Doct 1990 Apr;20(2):71–2.
Epilepsy [comment] Hosking G. **Trop Doct** 1990 Apr; 20(2):49–51 Comment on: Trop Doct 1990 Apr;20(2):52–5.
Prevention of deafness in the Third World [letter; comment] Kennedy I. **Trop Doct** 1990 Apr;20(2):71–2 Comment on: Trop Doct 1989 Oct;19(4):152–4.
Which system will work? Participatory health care [editorial] Lankester T. **Trop Doct** 1989 Oct;19(4):145–6
Paediatric anaesthesia in a developing country. Wisborg T, et al. **Trop Doct** 1990 Apr;20(2):60–2
Neonatal mid-upper-arm circumference is a valid proxy for birth-weight. Sauerborn R, et al. **Trop Med Parasitol** 1990 Mar;41(1):65–7
Expanded programme on immunization. Stability of vaccines. **Wkly Epidemiol Rec** 1990 Jul 27;65(30):233–5 **(Eng, Fre)**
Expanded programme on immunization Global Advisory Group. Part II. **Wkly Epidemiol Rec** 1990 Jan 19;65(3):15–6 **(Eng, Fre)**
Rheumatic fever and rheumatic heart disease in developing countries. Dodu SR, et al. **World Health Forum** 1989; 10(2):203–12
The road to health. McKeown T. **World Health Forum** 1989; 10(3–4):408–16
Fellowship evaluation—by whom? Strömbom M. **World Health Forum** 1989;10(3–4):397–402
Global strategy for health for all by the year 2000. Second report on monitoring progress in implementing strategies for health for all. **World Health Stat Q** 1989;42(4):182–288 **(Eng, Fre)**
Overview and epidemiological assessment of the current global tuberculosis situation: with an emphasis on tuberculosis control in developing countries. Styblo K. **Z Erkr Atmungsorgane** 1989;173(1):6–17 (8 ref.)
Lipoprotein levels of rural and urban persons of Ethiopia in dependence on age. Shifferaw K, et al. **ZFA** 1989 Nov–Dec;44(6):353–7
[Maternal mortality in developing countries] Hujová A. **Cesk Gynekol** 1990 May;55(4):283–4 **(Cze)**
[Limitations to medical ability (letter)] **Ned Tijdschr Geneeskd** 1990 Feb 24;134(8):404–5 **(Dut)**
[A challenge to be taken up. Management of 16 million cases of cataract not surgically treated in developing countries] Thylefors B, et al. **J Fr Ophtalmol** 1989;12(2):75–8 **(Fre)**
[Use of human body parts in the preparation of "protective medicine" in Lesotho. Parallels between African preventive medicine and drug preparations in Western paramedicine] Stallmach T, et al. **Beitr Gerichtl Med** 1989;47:1–5 (Eng. Abstr.) **(Ger)**
[Epidemiology of communicable skin diseases in school children of a rural area in North Ethiopia] Dagnew MB, et al. **Dermatol Monatsschr** 1990;176(4):219–23 (Eng. Abstr.) **(Ger)**
[Significance of the occurrence of Aeromonas of various biotypes in the Third World] Sixl W, et al. **Geogr Med Suppl** 1989;3:129–34 (Eng. Abstr.) **(Ger)**
[Work results of activity field 2 "Human medicine". Science and education for the development cooperation, 13 and 14 June 1988 in Vienna. 2] Sixl W, et al. **Geogr Med Suppl** 1989;5:89–97 **(Ger)**
[North–South—a future, a common task. North–South dialog of the Austrian Rectors' Conference, sphere of action "Science and research", activity field "Human medicine". 1] Sixl W. **Geogr Med Suppl** 1989;5:31–87 **(Ger)**
[Eye surgery in Sudan] Graf HP. **Klin Monatsbl Augenheilkd** 1990 May;196(5):438–41 (Eng. Abstr.) **(Ger)**
[Urbanization, poverty and health in Columbia] Stingl P. **Off Gesundheitswes** 1990 Jun;52(6):277–81 (Eng. Abstr.) **(Ger)**
[Control of tuberculosis in Nepal. A project. Initial results, experiences] Breyer O, et al. **Pneumologie** 1990 Feb;44 Suppl 1:475–6 (Eng. Abstr.) **(Ger)**
[Control of tuberculosis in Nepal. A project. Logistics, goals] Neher A, et al. **Pneumologie** 1990 Feb;44 Suppl 1:477–8 (Eng. Abstr.) **(Ger)**
[Possible effects of acquired immunologic deficiency syndrome (AIDS) on tuberculosis in industrial and developing countries] Styblo K. **Pneumologie** 1990 Feb;44 Suppl 1:647–52 (Eng. Abstr.) **(Ger)**
[The psychoanalytic interview of slum dwellers in Lima] Rodríguez Rabanal C. **Psyche (Stuttg)** 1990 Jul; 44(7):593–611 (Eng. Abstr.) **(Ger)**
[Traditional treatment procedures in neurologic-psychiatric diseases in Ethiopia] Sack G. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Feb; 42(2):96–101 (Eng. Abstr.) **(Ger)**
[Roentgen findings in Saudi Arabia] Schertel L. **Rontgenpraxis** 1989 Oct;42(10):354–62 **(Ger)**
[Prophylaxis is in the center in developing countries (interview by K. Venner)] Ben-Zur E. **Schweiz Monatsschr Zahnmed** 1990;100(7):892–3, 917–8 **(Ger, Fre)**
[Albania—impressions from public health] Schmidt CW. **Z Arztl Fortbild (Jena)** 1990;84(5):231–2 **(Ger)**
[Status of diabetes in Ethiopia as a contribution to tropical diabetes mellitus] Dabels J, et al. **Z Gesamte Inn Med** 1990 Jan 15;45(2):47–9 (Eng. Abstr.) **(Ger)**
[Obstetrical data of 11,874 deliveries at a university clinic of a developing country] Elling D. **Zentralbl Gynakol** 1990; 112(6):369–75 (Eng. Abstr.) **(Ger)**
[Problems in treatment of sterility in developing countries—experiences with sterility consultation in Gondar/Ethiopia] Sudik R, et al. **Zentralbl Gynakol** 1989; 111(23):1555–61 (Eng. Abstr.) **(Ger)**
[Situation of tuberculosis in the world and the role expected of Japan in the global fight against tuberculosis] Shimao T. **Kekkaku** 1989 Nov;64(11):721–30 (Eng. Abstr.) **(Jpn)**
[The role of maternal care in reducing perinatal and neonatal mortality in developing countries] Nicolau S, et al. **Rev Pediatr Obstet Ginecol [Pediatr]** 1989 Apr–Jun; 38(2):185–92 **(Rum)**
[The expanded vaccination program] Ollé Goig JE. **Med Clin (Barc)** 1989 Oct 7;93(10):383–6 **(Spa)**
[Women of science in the Third World (editorial)] Pasqualini CD. **Medicina (B Aires)** 1989;48(6):709–11 **(Spa)**
[Optimal age for vaccination against measles] José MV, et al. **Salud Publica Mex** 1989 Sep–Oct;31(5):645–57 (29 ref.) (Eng. Abstr.) **(Spa)**
[Research on maternal mortality in developing countries—a global priority] Bergström S. **Lakartidningen** 1990 Apr 4; 87(14):1175–6 **(Swe)**
[Medicine-men in Guinea-Bissau. A powerful group which shuns current medical care] Ekenberg T. **Lakartidningen** 1989 Oct 11;86(41):3478, 3483–4 **(Swe)**
[Primary health care and development of the rural regions in the fight against maternal mortality and infant mortality] Rosenkvist CJ. **Lakartidningen** 1989 Sep 6;86(36):2971–2 **(Swe)**

ECONOMICS

Tobacco excise and declining tobacco consumption: the case of Papua New Guinea. Chapman S, et al. **Am J Public Health** 1990 May;80(5):537–40
Tobacco taxation as health policy in the Third World. Warner KE. **Am J Public Health** 1990 May;80(5):529–31
Biomedical science and the third world. Under the volcano. Prospects of paying for scientific advances. Abel-Smith B. **Ann N Y Acad Sci** 1989;569:311–7 (8 ref.)
Third World aid [letter; comment] Dubé JM. **Can Med Assoc J** 1990 Jul 15;143(2):89 Comment on: Can Med Assoc J 1990 Apr 1;142(7):707–8.
Cost-effective validation of screening tests [letter] Joseph KS. **Int J Epidemiol** 1989 Dec;18(4):996–8

STATISTICS & NUMERICAL DATA

Acute poisoning in developing countries. Joubert PH, et al. **Adverse Drug React Acute Poisoning Rev** 1989 Autumn; 8(3):165–78 (35 ref.)
Ethnicity and other characteristics predictive of coronary heart disease in a developing community: principal results of the St James Survey, Trinidad. Miller GJ, et al. **Int J Epidemiol** 1989 Dec;18(4):808–17
Campylobacter jejuni versus Campylobacter coli in developing countries: how accurate are prevalence estimates? [letter] Pazzaglia G, et al. **J Infect Dis** 1990 Aug; 162(2):570
Diarrhea in developed and developing countries: magnitude, special settings, and etiologies. Guerrant RL, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S41–50 (72 ref.)

DEVELOPMENTAL BIOLOGY

Developmental biology in France. **Int J Dev Biol** 1990 Mar; 34(1):1–253
Developmental biology: preventive medicine for neonatology. Bernfield M. **Pediatr Res** 1990 Jun;27(6 Suppl):S21–7 (33 ref.)

TRENDS

On the present situation of developmental biology in France. Beetschen JC. **Int J Dev Biol** 1990 Mar;34(1):25–31

DEVELOPMENTAL DELAY DISORDERS see **CHILD DEVELOPMENT DISORDERS**

DEVIATION, EPISTATIC see **EPISTASIS, GENETIC**

DEVICE DESIGN see **EQUIPMENT DESIGN**

DEVICE FAILURE see **EQUIPMENT FAILURE**

DEVICE SAFETY see **EQUIPMENT SAFETY**

DEVICES see **EQUIPMENT AND SUPPLIES**

DEXAMETHASONE

[Prerequisites for pacemaker electrodes for individual programming of a low stimulation impulse (comparison of an Elgiloy and a steroid-dependent pacemaker electrode)] Schuchert A, et al. **Z Kardiol** 1990 Jun;79(6):403–7 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Behavioural teratogenic risk of perinatal administration of dexamethasone in combinations with phenoterol. Tejkalová H, et al. **Act Nerv Super (Praha)** 1989 Oct;31(3):226–7
In vivo responsiveness to glucocorticoid correlated with glucocorticoid receptor content in peripheral blood leukocytes in normal humans. Tanaka H, et al. **Acta Endocrinol (Copenh)** 1989 Oct;121(4):470–6
Monitoring card for dexamethasone therapy [letter] Ishisaka DY, et al. **Am J Hosp Pharm** 1990 Aug;47(8):1751
Effects of single intravenously administered doses of dexamethasone on response to the adrenocorticotropic hormone stimulation test in dogs. Kemppainen RJ, et al. **Am J Vet Res** 1989 Nov;50(11):1914–7
Topical steroids in the treatment of central and paracentral corneal ulcers. Carmichael TR, et al. **Br J Ophthalmol** 1990 Sep;74(9):528–31
Treatment of Morton's neuroma [letter; comment] Imberman N. **J Am Podiatr Med Assoc** 1990 Jan;80(1):47 Comment on: J Am Podiatr Med Assoc 1989 Jan;79(1):27–30.
Glucocorticoids in acute stroke [letter] Gohel D. **J Assoc Physicians India** 1989 Dec;37(12):799–800
Acute administration of corticoids: a new and peculiar stimulus of growth hormone secretion in man. Casanueva FF, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):234–7
Effect of leuprolide and dexamethasone on hair growth and hormone levels in hirsute women: the relative importance of the ovary and the adrenal in the pathogenesis of hirsutism. Rittmaster RS, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1096–102
Protection from nausea and vomiting in cisplatin-treated patients: high-dose metoclopramide combined with methylprednisolone versus metoclopramide combined with dexamethasone and diphenhydramine: a study of the Italian Oncology Group for Clinical Research. Roila F, et al. **J Clin Oncol** 1989 Nov;7(11):1693–700
Tumour necrosis factor, steroids, and meningitis [letter; comment] Friedland J, et al. **Lancet** 1990 Feb 3; 335(8684):300 Comment on: Lancet 1989 Dec 2;2(8675):1307–8.
Effects of dexamethasone on glucose-induced insulin and proinsulin release in low and high insulin responders. Grill V, et al. **Metabolism** 1990 Mar;39(3):251–8
Filtering bleb encapsulation increased by steroid injection. Loftfield K, et al. **Ophthalmic Surg** 1990 Apr;21(4):282–7
Stimulation characteristics of a steroid-eluting electrode compared with three conventional electrodes. Klein HH, et al. **PACE** 1990 Feb;13(2):134–7
[Therapy of hirsutism in females with adrenal enzyme defects of steroid hormone biosynthesis: comparison of dexamethasone with cyproterone acetate] Frank-Raue K, et al. **Klin Wochenschr** 1990 Jun 19;68(12):597–601 (Eng. Abstr.) **(Ger)**
[Dose- and time-dependent dexamethasone effects in cold lesion-induced brain edema in the rat. Experimental research accompanying the German Ultrahigh Dexamethasone Head Injury Study (GUDHIS)] Deisenroth K, et al. **Neurochirurgia (Stuttg)** 1990 Jan; 33(1):1–7 (Eng. Abstr.) **(Ger)**
[Long-term immunosuppressive treatment of sympathetic ophthalmia] Andrzejewska W, et al. **Klin Oczna** 1989 Jul–Sep;91(7–9):203–5 (Eng. Abstr.) **(Pol)**
[Clinico-immunologic parallels in evaluating the treatment of multiple sclerosis] Chernigovskaia NV, et al. **Zh Nevropatol Psikhiatr** 1990;90(2):24–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Transient reduction in serum cortisol levels after dexamethasone antiemetic therapy in cancer patients undergoing chemotherapy. Aasebø U, et al. **Acta Oncol** 1990;29(3):314–6

Acute tumor lysis syndrome in prolymphocytic leukemia. Smith RE, et al. **Am J Med** 1990 May;88(5):547–8

A catabolic state in dexamethasone treatment of bronchopulmonary dysplasia [letter] Macdonald PD, et al. **Arch Dis Child** 1990 May;65(5):560–1

Dexamethasone and infection in preterm babies: a controlled study. Ng PC, et al. **Arch Dis Child** 1990 Jan;65(1 Spec No):54–6

Dexamethasone and infection in preterm babies: a controlled study [letter] Staines A. **Arch Dis Child** 1990 Jul;65(7):812

A collapse syndrome associated with gram-negative infection in cows treated with dexamethasone to induce parturition [letter] Browning JW, et al. **Aust Vet J** 1990 Jan;67(1):28–9

Dexamethasone used as an antiemetic in chemotherapy protocols inhibits natural cytotoxic (NC) cell activity. Powell CB, et al. **Cancer** 1990 Feb 1;65(3):466–72

Increasing recognition of corticosteroid-induced tumor lysis syndrome in non-Hodgkin's lymphoma. Sparano J, et al. **Cancer** 1990 Mar 1;65(5):1072–3

Penetrating keratoplasty in rabbits induces latent HSV-1 reactivation when corticosteroids are used. Beyer CF, et al. **Curr Eye Res** 1989 Dec;8(12):1323–9

Steroid induced glaucoma and cataract. Mohan R, et al. **Indian J Ophthalmol** 1989 Jan–Mar;37(1):13–6

Effect of otic medications containing glucocorticoids on liver function test results in healthy dogs. Meyer DJ, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):743–4

Side effects and long-term follow-up of corticosteroid therapy in very low birthweight infants with bronchopulmonary dysplasia. Ferrara TB, et al. **J Perinatol** 1990 Jun;10(2):137–42

Immune response of mallard ducks treated with immunosuppressive agents: antibody response to erythrocytes and in vivo response to phytohemagglutinin-P. Schrank CS, et al. **J Wildl Dis** 1990 Jul;26(3):307–15

The dangers of steroid eye drops. Gregory P. **Practitioner** 1990 May 8;234(1488):454–5

[Steroid therapy in subarachnoid hemorrhage] Karnik R, et al. **Wien Klin Wochenschr** 1990 Jan 5;102(1):1–4 (Eng. Abstr.) **(Ger)**

[Various new data on steroid-induced myopathy] Araszkiewicz Z, et al. **Pneumonol Pol** 1989 Jul–Sep; 57(7–9):431–4 (21 ref.) **(Pol)**

ANALOGS & DERIVATIVES

Dexamethasone isonicotinate inhibits dual and late asthmatic reactions but not the increase of airway responsiveness induced by toluene diisocyanate in sensitized subjects. Tossin L, et al. **Ann Allergy** 1989 Oct;63(4):292–6

Local steroid injection: its effect on the recovery of nerve conduction in experimental neuropathy. Hong CZ, et al. **Arch Phys Med Rehabil** 1990 Jan;71(1):42–5

Allergic reactions to topical desoxymethasone and oral triamcinolone. Brambilla L, et al. **Contact Dermatitis** 1989 Oct;21(4):272–4

Pharmacological evaluation of five novel dexamethasone heneicosoic (21) acid derivatives. Hong SU, et al. **Drugs Exp Clin Res** 1989;15(11–12):511–20

Glucocorticoid receptor identified on nuclear envelopes of male rat livers by affinity labeling and immunochemistry. Howell GM, et al. **Endocrinology** 1990 Sep;127(3):1087–96

Microsomal dexamethasone binding sites identified by affinity labelling. LaCasse EC, et al. **J Steroid Biochem** 1990 Jan; 35(1):47–54

Improvement in glucocorticoid receptor binding affinity concomitant to shift from antagonist to agonist activity in a series of 17 beta-carboxamide derivatives of dexamethasone. Lefebvre P, et al. **J Steroid Biochem** 1989 Oct;33(4A):557–63

The effect of dexamethasone-21-acetate on meal size, meal frequency and macronutrient self-selection in rats. Grigson PS, et al. **Physiol Behav** 1989 Aug;46(2):211–6

Action of dexamethasone in an equine model of acute non-immune inflammation. Lane PJ, et al. **Res Vet Sci** 1990 Jan;48(1):87–95

[Effects of intravitreal steroid injection on rabbit eye] Shimada H, et al. **Nippon Ganka Gakkai Zasshi** 1989 Apr; 93(4):501–10 (Eng. Abstr.) **(Jpn)**

ANALYSIS

A rapid and highly sensitive method for the quantitative determination of dexamethasone in plasma, synovial fluid and tissues by combined gas chromatography/negative ion chemical ionization mass spectrometry. Girault J, et al. **Biomed Environ Mass Spectrom** 1990 May;19(5):295–302

BLOOD

Plasma dexamethasone concentrations and the dexamethasone suppression test [published erratum appears in Biol Psychiatry 1990 Apr 1;27(7):809] Ritchie JC, et al. **Biol Psychiatry** 1990 Jan 15;27(2):159–73

Determination of plasma dexamethasone by chemical oxidation and electron capture negative ionization mass spectrometry. Kayganich K, et al. **Biomed Environ Mass Spectrom** 1990 Jun;19(6):341–7

Characterization of dexamethasone binding in normal and uremic human serum. Cummings DM, et al. **DICP** 1990 Mar;24(3):229–31

Direct radioimmunoassay procedure for plasma dexamethasone with a sensitivity at the picogram level. Lo ES, et al. **J Pharm Sci** 1989 Dec;78(12):1040–4

Hypothalamo-pituitary-adrenal activity in endogenously depressed post-traumatic stress disorder patients. Halbreich U, et al. **Psychoneuroendocrinology** 1989;14(5):365–70

DIAGNOSTIC USE

The dexamethasone provocative test: a predictive tool for glaucoma? Klemetti A. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):29–33

Repeated dexamethasone suppression test in major depression. Hellebuyck H, et al. **Acta Psychiatr Belg** 1988; 88(5–6):378–86 (41 ref.)

The dexamethasone suppression test and negative symptoms of schizophrenia. McGauley GA, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):548–53

Severity of depression and hypothalamic-pituitary-adrenal axis dysregulation: identification of contributing factors. Meador-Woodruff JH, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):364–71

The dexamethasone suppression test and completed suicide. Norman WH, et al. **Acta Psychiatr Scand** 1990 Feb; 81(2):120–5

Relationship between dexamethasone nonsuppression and negative symptoms in schizophrenic patients [letter; comment] Tandon R. **Acta Psychiatr Scand** 1989 Nov; 80(5):524–5 Comment on: Acta Psychiatr Scand 1988 Jan;77(1):58–62.

Use of the dexamethasone suppression test with mentally retarded persons: review and recommendations. Wolkowitz OM. **Am J Ment Retard** 1990 Mar;94(5):509–14 (13 ref.)

Alexithymic features in relation to the dexamethasone suppression test in a Finnish population sample. Lindholm T, et al. **Am J Psychiatry** 1990 Sep;147(9):1216–9

The DST and outcome in schizophrenia [letter; comment] Tandon R, et al. **Am J Psychiatry** 1989 Dec;146(12):1648–9 Comment on: Am J Psychiatry 1989 Apr;146(4):473–7.

Continuous dexamethasone infusion for seven hours in patients with the Cushing syndrome. A superior differential diagnostic test. Biemond P, et al. **Ann Intern Med** 1990 May 15;112(10):738–42

Sleep patterns and dexamethasone suppression in nondepressed bulimics. Byrne B, et al. **Biol Psychiatry** 1990 Feb 15;27(4):454–6

CSF 5-HIAA, serum cortisol, and age differentially predict vegetative and cognitive symptoms in depression. Faustman WO, et al. **Biol Psychiatry** 1990 Feb 1; 27(3):311–8

Dexamethasone suppression test in helpless rats. Greenberg L, et al. **Biol Psychiatry** 1989 Sep;26(5):530–2

Multiplicity of depressive episodes: phenomenological and neuroendocrine correlates. Gurguis GN, et al. **Biol Psychiatry** 1990 May 15;27(10):1156–64

Comparisons of plasma and salivary cortisol determinations for the diagnostic efficacy of the dexamethasone suppression test. Harris B, et al. **Biol Psychiatry** 1990 Apr 15;27(8):897–904

Serial dexamethasone suppression test in psychiatric inpatients. Hwu HG, et al. **Biol Psychiatry** 1990 Mar 15; 27(6):609–16

DST and schizophrenic symptomatology [letter; comment] Keshavan MS, et al. **Biol Psychiatry** 1989 Dec;26(8):856–8 Comment on: Biol Psychiatry 1989 Mar 15;25(6):788–92.

Adrenocortical sensitivity to low-dose ACTH administration in depressed patients. Krishnan KR, et al. **Biol Psychiatry** 1990 Apr 15;27(8):930–3

Plasmatic vasopressin neurophysin in depression: basic levels and relations with HPA axis. Laruelle M, et al. **Biol Psychiatry** 1990 Jun 1;27(11):1249–63

Prediction of the DST results in depressives by means of urinary-free cortisol excretion, dexamethasone levels, and age. Maes M, et al. **Biol Psychiatry** 1990 Aug 15; 28(4):349–57

Effects of dexamethasone on the availability of L-tryptophan and on the insulin and FFA concentrations in unipolar depressed patients. Maes M, et al. **Biol Psychiatry** 1990 Apr 15;27(8):854–62

The relationships between the cortisol responses to dexamethasone and to L-5-HTP, and the availability of L-tryptophan in depressed females. Maes M, et al. **Biol Psychiatry** 1990 Mar 15;27(6):601–8

Plasma dexamethasone levels in children given the dexamethasone suppression test. Naylor MW, et al. **Biol Psychiatry** 1990 Mar 15;27(6):592–600

Psychopathology and plasma cortisol responses to dexamethasone in prepubertal psychiatric inpatients. Pfeffer CR, et al. **Biol Psychiatry** 1989 Nov;26(7):677–89

Cortisol, ACTH, and beta-endorphin after dexamethasone administration in Parkinson's dementia. Rabey JM, et al. **Biol Psychiatry** 1990 Mar 15;27(6):581–91

Neuroanatomical changes and hypothalamo-pituitary-adrenal axis abnormalities. Rao VP, et al. **Biol Psychiatry** 1989 Nov;26(7):729–32

Relationships between brain CT scan findings and cortisol in psychotic and nonpsychotic depressed patients. Rothschild AJ, et al. **Biol Psychiatry** 1989 Oct;26(6):565–75

Neuroendocrine aspects of primary endogenous depression. X: Serum growth hormone measures in patients and matched control subjects. Rubin RT, et al. **Biol Psychiatry** 1990 May 15;27(10):1065–82

Hypercortisolism and its possible neural bases. Sapolsky RM, et al. **Biol Psychiatry** 1990 May 1;27(9):937–52 (95 ref.)

Comorbidity in the interpretation of dexamethasone suppression test results in children: a review and report. Steingard R, et al. **Biol Psychiatry** 1990 Aug 1; 28(3):193–202 (55 ref.)

Age, postdexamethasone cortisol, and depression [correction] [letter] Whiteford HA. **Biol Psychiatry** 1989 Oct;26(6):651

Impaired lymphocyte stimulation by mitogens in severely depressed patients. A complex interface with HPA-axis hyperfunction, noradrenergic activity and the ageing process. Maes M, et al. **Br J Psychiatry** 1989 Dec;155:793–8

The predictive value of the dexamethasone suppression test. A placebo-controlled study. Peselow ED, et al. **Br J Psychiatry** 1989 Nov;155:667–72

Dexamethasone suppression test in dementia and depression. Clinical and biological correlates. Shrimankar J, et al. **Br J Psychiatry** 1989 Mar;154:372–7

Depression dexamethasone nonsuppression and negative symptoms in schizophrenia. Addington D, et al. **Can J Psychiatry** 1990 Jun;35(5):430–3

Effect of concurrent medical illness on dexamethasone suppression test results in depressed inpatients. Cooke RG, et al. **Can J Psychiatry** 1990 Feb;35(1):31–5

Measured weight loss and the dexamethasone suppression test. Kennedy SH, et al. **Can J Psychiatry** 1989 Oct; 34(7):707–9

The incidence of abnormal dexamethasone suppression in schizophrenia: a review and a meta-analytic comparison with the incidence in normal controls. Yeragani VK. **Can J Psychiatry** 1990 Mar;35(2):128–32 (69 ref.)

Virilizing adrenal adenoma in an adult with the Beckwith-Wiedemann syndrome: paradoxical response to dexamethasone. Clouston WM, et al. **Clin Endocrinol (Oxf)** 1989 Oct;31(4):467–73

The overnight dexamethasone test is a worthwhile screening procedure. Cronin C, et al. **Clin Endocrinol (Oxf)** 1990 Jul; 33(1):27–33

Rapid escape of cortisol from suppression in response to i.v. dexamethasone in anorexia nervosa. Estour B, et al. **Clin Endocrinol (Oxf)** 1990 Jul;33(1):45–52

Muscle contraction headache: dexamethasone suppression test and response to amitriptyline. Tuchman AJ, et al. **Eur Neurol** 1989;29(5):291–3

The dexamethasone suppression test and long-term contraceptive treatment: measurement of ACTH or salivary cortisol does not improve the reliability of the test. Nickelsen T, et al. **Exp Clin Endocrinol** 1989;94(3):275–80

Ovine corticotropin-releasing factor and dexamethasone responses in hyperandrogenic women. Carmina E, et al. **Fertil Steril** 1990 Aug;54(2):245–50

Neuroendocrine challenge tests in depression: a study of growth hormone, TRH and cortisol release. Barry S, et al. **J Affective Disord** 1990 Apr;18(4):229–34

Neuroendocrine investigation in children and adolescents with dysthymic disorders: the DST, TRH and clonidine tests. Brambilla F, et al. **J Affective Disord** 1989 Nov-Dec; 17(3):279–84

Persistent cortisol non-suppression after clinical recovery predicts symptomatic relapse in unipolar depression. Charles GA, et al. **J Affective Disord** 1989 Nov-Dec; 17(3):271–8

The effects of glucocorticoids on the availability of L-tryptophan and tyrosine in the plasma of depressed patients. Maes M, et al. **J Affective Disord** 1990 Feb; 18(2):121–7

An augmented escape of beta-endorphins to suppression by dexamethasone in severely depressed patients. Maes M, et al. **J Affective Disord** 1990 Mar;18(3):149–56

The effect of dexamethasone dosage upon plasma cortisol and dexamethasone during the DST. Wiedemann K, et al. **J Affective Disord** 1990 Jun;19(2):133–7

Iodomethylnorcholesterol uptake in an aldosteronoma shown by dexamethasone-suppression scintigraphy: relationship to adenoma size and functional activity. Nomura K, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):825–30

The predictive power of the salivary cortisol dexamethasone suppression test for three-year outcome in major depressive illness. Mander AJ, et al. **J Psychiatr Res** 1989;23(2):151–6

Anhedonia, suicide ideation and dexamethasone nonsuppression in depressed patients. Oei TI, et al. **J Psychiatr Res** 1990;24(1):25–35

Age and cortisol suppression by dexamethasone in normal subjects. Weiner MF. **J Psychiatr Res** 1989;23(2):163–8

Evening urine cortisol excretion and DST results in depression and anorexia nervosa. Zis AP, et al. **J Psychiatr Res** 1989;23(3–4):251–5

Dexamethasone suppression test in patients with Parkinson's disease. Kostić VS, et al. **Mov Disord** 1990;5(1):23–6

Results of the 8 a.m. dexamethasone suppression test constitute a suitable tool for confirming the diagnosis of melancholia. A test unaffected by the variations in the bioavailability of dexamethasone. Maes M, et al. **Neuropsychobiology** 1989;22(1):26–32

Pharmacologic provocation and dexamethasone suppression test sensitivity. Swartz CM, et al. **Neuropsychobiology** 1989; 22(1):11–3

Plasma corticosterone in dexamethasone suppression test on depressed patients. Li SW, et al.

Proc Chin Acad Med Sci Peking Union Med Coll 1989; 4(2):72–9

The relationship between cognitive impairment plasma cortisol levels and HPA responsibility to dexamethasone in dementia. Gurevitch D, et al. **Prog Clin Biol Res** 1989; 317:175–87

HPA axis responsivity to dexamethasone and cognitive impairment in dementia. Gurevich D, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):297–308

Hypothalamic–pituitary–adrenal axis interaction with prostaglandins. Thorén M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):319–26

Dexamethasone suppression test in positive and negative schizophrenia. Altamura C, et al. **Psychiatry Res** 1989 Oct; 30(1):69–75

Liver function, plasma dexamethasone, and DST results in detoxified alcoholics. Carson SW, et al. **Psychiatry Res** 1989 Nov;30(2):217–21

HPA axis disturbance in obsessive-compulsive disorder. Coryell WH, et al. **Psychiatry Res** 1989 Dec;30(3):243–51

Urinary free cortisol levels in obsessive–compulsive disorder. Gehris TL, et al. **Psychiatry Res** 1990 May;32(2):151–8

Neuroendocrine aspects of primary endogenous depression: IX. Receiver operating characteristic analysis of the dexamethasone suppression index vs. the dexamethasone suppression test in patients and controls. McCracken JT, et al. **Psychiatry Res** 1990 Jan;31(1):49–56

Correlation between brain–adrenal axis activation and cognitive impairment in Alzheimer's disease: is there a gender effect? Ozenkrug GF, et al. **Psychiatry Res** 1989 Aug;29(2):169–75

Hypothalamic–pituitary–adrenal axis dysregulation among diabetic outpatients. Roy M, et al. **Psychiatry Res** 1990 Jan;31(1):31–7

Effects of glucocorticoids on plasma catecholamines in depression. Rupprecht R, et al. **Psychiatry Res** 1989 Aug; 29(2):187–98

Specificity of plasma HVA response to dexamethasone in psychotic depression. Wolkowitz OM, et al. **Psychiatry Res** 1989 Aug;29(2):177–86

DST status and blood chemistries in prepubertal children. Yaylayan SA, et al. **Psychiatry Res** 1989 Aug;29(2):215–9

The dexamethasone suppression test in depression—a Singapore study. Peh LH, et al. **Singapore Med J** 1990 Apr;31(2):147–52

Overnight dexamethasone suppression test: normal responses and the diagnosis of Cushing's syndrome. Blethen SL, et al. **Steroids** 1989 Aug;54(2):185–93

Hypercortisolism revealed by the dexamethasone suppression test in patients [corrected] with acute ischemic stroke [published erratum appears in Stroke 1990 Apr;21(4):681] Olsson T, et al. **Stroke** 1989 Dec;20(12):1685–90

[The prognostic value of the dexamethasone suppression test for the course of anorexia nervosa—comparison with depressive diseases] Herpertz-Dahlmann B, et al. **Z Kinder Jugendpsychiatr** 1990 Mar;18(1):5–11 (Eng. Abstr.) (Ger)

[Investigation of Cushing's syndrome. The diagnostic value of the dexamethasone suppression test, the metopirone test and the CRF test] Johannesen O, et al. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2678–82 (Eng. Abstr.) (Nor)

[The effect of neurotropic preparations on the sensitivity of the hypothalamo–hypophyseal system to the inhibiting action of dexamethasone] Ostroumova MN, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):37–40 (Eng. Abstr.) (Rus)

[Usefulness of neuroendocrine function tests in the differential diagnosis of depression] Cervera S. **Rev Esp Fisiol** 1989; 45 Suppl:279–87 (Eng. Abstr.) (Spa)

METABOLISM

Mechanism of glucocorticoid enhancement of the responsiveness of ovine adrenocortical cells to adrenocorticotropin. Darbeida H, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1183–91

Adrenal steroid type I and type II receptor binding: estimates of in vivo receptor number, occupancy, and activation with varying level of steroid. Spencer RL, et al. **Brain Res** 1990 Apr 23;514(1):37–48

Binding of 3H-aldosterone and 3H-dexamethasone in primary monolayer cultures of kidney cortical collecting tubule (CCT) cells. Stopp M, et al. **Cell Biol Int Rep** 1990 Mar;14(3):229–34

Location of the second steroid-binding site on the glucocorticoid receptor. Svec F, et al. **Endocrinology** 1989 Dec;125(6):3103–8

Endotoxin inhibition of glucocorticoid enzyme induction and in vivo 3H-dexamethasone labelling of rat liver nuclei. Vaptzarova KI, et al. **Int J Biochem** 1989;21(6):701–5

Characterization of high affinity and low affinity dexamethasone binding sites on male rat liver nuclear envelopes. Howell GM, et al. **J Steroid Biochem** 1989 Nov; 33(5):977–86

Glucocorticoid regulation of a phenobarbital-inducible cytochrome P-450 gene: the presence of a functional glucocorticoid response element in the 5'-flanking region of the CYP2B2 gene. Jaiswal AK, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4237–42

[Association of [3H]-dexamethasone with cytoplasmic receptor proteins and their translocation into liver cell nuclei during aging] Fil'chenkov GN. **Vopr Med Khim** 1990 Jan–Feb;36(1):42–5 (Eng. Abstr.) (Rus)

PHARMACOKINETICS

The pharmacokinetics of low-dose dexamethasone in congenital adrenal hyperplasia. Young MC, et al. **Eur J Clin Pharmacol** 1989;37(1):75–7

Dexamethasone kinetics in depressed patients before and after clinical response. Maguire KP, et al. **Psychoneuroendocrinology** 1990;15(2):113–23

[Pharmacokinetics of dexamethasone administered orally in obese patients] Lamiable D, et al. **Therapie** 1990 Jul–Aug; 45(4):311–4 (Eng. Abstr.) (Fre)

[Therapeutic drug monitoring of synthetic steroids] Miyazaki S. **Nippon Rinsho** 1990 Feb;48 Suppl:1189–92 (Jpn)

PHARMACOLOGY

Noradrenergic alterations in the brain stem of adult rats after a model perinatal insult. Burešová M, et al. **Act Nerv Super (Praha)** 1989 Oct;31(3):229–31

13-cis retinoic acid and dexamethasone modulate the gene expression of epidermal growth factor receptor and fibroblast proteoglycan 40 core protein in human skin fibroblasts. Oikarinen A, et al. **Acta Derm Venereol (Stockh)** 1989;69(6):466–9

Effects of dexamethasone on body fluid and electrolyte composition of rats. Kenyon CJ, et al. **Acta Endocrinol (Copenh)** 1990 May;122(5):599–604

Hormonal modulation of brain tumour growth: a cell culture study. Gibelli N, et al. **Acta Neurochir (Wien)** 1989; 101(3–4):129–33

Effect of late steroid imprinting of the thymus on the hormone binding capacity of thymocytic receptors in adulthood. Csaba G, et al. **Acta Physiol Hung** 1990; 75(3):195–9

The effect of nedocromil and dexamethasone on the antigen induced changes of sheep tracheal smooth muscle responsiveness. Körmöczy PS, et al. **Acta Physiol Hung** 1990;75 Suppl:187–8

Appearance and persistence of 11 beta-hydroxypregna-1,4-diene-3,20-dione (delta HOP) effect "in vivo". Rondinone CM, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(2):181–8

Suppressant effects of dexamethasone on the availability of plasma L-tryptophan and tyrosine in healthy controls and in depressed patients. Maes M, et al. **Acta Psychiatr Scand** 1990 Jan;81(1):19–23

Effect of dexamethasone on neurotransmitter amines in a rat glioma model. Chang CC, et al. **Adv Neurol** 1990;52:483–9

Dexamethasone effects on the distribution of water and albumin in cold-injury cerebral edema. Nakata H, et al. **Adv Neurol** 1990;52:335–42

Effects of dexamethasone on blood flow and volume of perfused microvessels in traumatic brain edema. Tajima A, et al. **Adv Neurol** 1990;52:343–50

Regulation of prostanoids synthesis in human fibroblasts and human blood monocytes by interleukin-1, endotoxin, and glucocorticoids. Raz A, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:22–7

A site of action of dexamethasone on leukocyte extravasation in microcirculation. Katori M, et al. **Agents Actions** 1990 Jan;29(1–2):24–6

Expression from the HIV-LTR is stimulated by glucocorticoids and pregnancy. Furth PA, et al. **AIDS Res Hum Retroviruses** 1990 Apr;6(4):553–60

Effects of fetal sex and dexamethasone on preterm maternal serum concentrations of human chorionic gonadotropin, progesterone, estrone, estradiol, and estriol. Haning RV Jr, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1549–53

Low-dose glucocorticoids stimulate electroneutral NaCl absorption in rat colon. Bastl CP, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):F1027–38

Alveolar dimensions and number: developmental and hormonal regulation. Blanco LN, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L240–7

Stimulation of plasma inactive renin by dexamethasone in the cat. Glorioso N, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):E879–84

Adrenal steroid receptor binding in spleen and thymus after stress or dexamethasone. Miller AH, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E405–12

Glucocorticoids regulate surfactant protein synthesis in a pulmonary adenocarcinoma cell line. O'Reilly MA, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):L385–92

Evolution of dexamethasone-induced insulin resistance in rats. Stojanovska L, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E748–56

Interferon-gamma increases alveolar macrophage Ia antigen expression despite oral administration of dexamethasone to rats. Fuchs HJ, et al. **Am J Respir Cell Mol Biol** 1989 Dec; 1(6):525–32

Influence of recombinant bovine interferon gamma and dexamethasone on pneumonia attributable to Haemophilus somnus in calves. Chiang YW, et al. **Am J Vet Res** 1990 May;51(5):759–62

Bovine recombinant granulocyte–macrophage colony-stimulating factor enhancement of bovine neutrophil functions in vitro. Reddy PG, et al. **Am J Vet Res** 1990 Sep;51(9):1395–9

Influence of recombinant human interleukin-2 administration on lymphocyte and neutrophil function in clinically normal and dexamethasone-treated cattle. Roth JA, et al. **Am J Vet Res** 1990 Apr;51(4):546–9

Pseudorabies virus latency and reactivation in vaccinated swine. Schoenbaum MA, et al. **Am J Vet Res** 1990 Mar; 51(3):334–8

Effects of dexamethasone on shedding of Listeria monocytogenes in dairy cattle. Wesley IV, et al. **Am J Vet Res** 1989 Dec;50(12):2009–13

Dexamethasone does not inhibit the release of mediators from human mast cells residing in airway, intestine, or skin. Cohan VL, et al. **Am Rev Respir Dis** 1989 Oct;140(4):951–4

Direct inhibitory action of glucocorticoid on glycoconjugate secretion from airway submucosal glands. Shimura S, et al. **Am Rev Respir Dis** 1990 Apr;141(4 Pt 1):1044–9

Potent antagonism between estrogens and androgens on GCDFP-15 expression and cell growth in the ZR-75-1 human breast cancer cells. Labrie F, et al. **Ann N Y Acad Sci** 1990;586:174–87

The influence of dexamethasone on the regrowth of surgically removed fat. Angel MF, et al. **Ann Plast Surg** 1986 Aug;17(2):134–40

Glucocorticoid repression and basal regulation of the epoxide hydrolase promoter. Bell PA, et al. **Arch Biochem Biophys** 1990 Jun;279(2):363–9

Dexamethasone-induced plasminogen activator inhibitor: characterization, purification, and preparation of monoclonal antibodies. Oikarinen A, et al. **Arch Dermatol Res** 1990;282(3):153–8

Does dexamethasone suppress the ACTH response in preterm babies? [letter; comment] Reynolds GJ, et al. **Arch Dis Child** 1989 Oct;64(10):1514–5 Comment on: Arch Dis Child 1989 Apr;64(4):612–3.

Dexamethasone ocular hypertension and eosinopenia, and glucose tolerance test. Armaly MF. **Arch Ophthalmol** 1967 Aug;78(2):193–7

Dexamethasone can prevent stress-related litter deficits in the golden hamster. Pratt NC, et al. **Behav Neural Biol** 1990 Jul;54(1):1–12

Multihormonal regulation of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene expression in primary cultures of rat hepatocytes. Kummel L, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):406–13

Differential induction of transcription for glucocorticoid-responsive genes in cultured rat hepatocytes. Nebes VL, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):133–8

Dexamethasone increases neutral sphingomyelinase activity and sphingosine levels in 3T3-L1 fibroblasts. Ramachandran CK, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):607–13

Sphingosine inhibition of tyrosine aminotransferase and tryptophan oxygenase induction by dexamethasone in primary culture of rat hepatocytes. Sgarna R, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):823–9

Metyrapone modulation of tyrosine aminotransferase induction by dexamethasone in cultured hepatocytes. Tongiani R, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):801–6

Glucocorticoids regulate expression of the v-mycOK10 oncogene in a murine retroviral vector with chimeric MoMuLV-MMTV LTRs. Jacquemin-Sablon H, et al. **Biochem Int** 1990;20(4):669–79

Rapid activation of glycogen phosphorylase by steroid hormones in cultured rat hepatocytes. Gomez-Muñoz A, et al. **Biochem J** 1989 Sep 1;262(2):417–23

Effects of phorbol, dexamethasone and starvation on 3-O-methyl-D-glucose transport by rat thymocytes. Modulation of transport by altered trans effects. Naftalin RJ, et al. **Biochem J** 1990 Jan 1;265(1):251–9

Dexamethasone regulates bile acid synthesis in monolayer cultures of rat hepatocytes by induction of cholesterol 7 alpha-hydroxylase. Princen HM, et al. **Biochem J** 1989 Aug 15;262(1):341–8

Hormonal regulation of stability of glutamine synthetase mRNA in cultured 3T3-L1 adipocytes. Saini K, et al. **Biochem J** 1990 Apr 1;267(1):241–4

Hormone and substrate regulation of glycogen accumulation in primary cultures of rat hepatocytes. Salhanick AI, et al. **Biochem J** 1989 Aug 1;261(3):985–92

Interactions of insulin, thyroxine and dexamethasone with growth hormone in the control of steroid metabolism by isolated rat hepatocytes. Gulati P, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4061–7

Glucocorticoid-induced reduction of prostanoid synthesis in TPA-differentiated U937 cells is mainly due to a reduced cyclooxygenase activity. Koehler L, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1307–16

Effects of physiological and pathological levels of glucocorticoids on skeletal muscle glutamine metabolism in the rat. Parry-Billings M, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1145–8

Modulation of the beta- and alpha 2-adrenergic systems of sheep adipose tissue by dexamethasone. Finley E, et al. **Biochem Soc Trans** 1990 Jun;18(3):461–2

Dexamethasone and phenylalanine hydroxylase activities in rats. Walsh GA, et al. **Biochem Soc Trans** 1990 Apr; 18(2):320–1

Dexamethasone inhibits sugar incorporation into glycolipids in cultured rat hepatocytes. Whatmore AJ, et al.

Biochem Soc Trans 1990 Jun;18(3):498–9

Regulation of eicosanoid synthesis in microvessel endothelium: glucocorticoids do not affect arachidonyl CoA synthetase activity. Gerritsen ME, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):174–9

Expression of the amylase gene in the rat exocrine pancreas during postnatal development: effect of dexamethasone. Lee PC, et al. **Biochim Biophys Acta** 1990 Jul 30; 1049(3):244–8

Enhancement of c-erbA proto-oncogene expression by glucocorticoid hormones in S49.1 lymphoma cells. Maroder M, et al. **Biochim Biophys Acta** 1989 Nov 2; 1009(2):188–90

Synergistic actions of tetradecylthioacetic acid (TTA) and dexamethasone on induction of the peroxisomal beta-oxidation and on growth inhibition of Morris hepatoma cells. Both effects are counteracted by insulin. Norrheim L, et al. **Biochim Biophys Acta** 1990 Mar 9; 1051(3):319–23

Dexamethasone increases the activity but not the amount of choline-phosphate cytidylyltransferase in fetal rat lung. Rooney SA, et al. **Biochim Biophys Acta** 1990 Jun 14; 1044(3):385–9

Intracellular inhibition of mono(ADP-ribosylation) by meta-iodobenzylguanidine: specificity, intracellular concentration and effects on glucocorticoid-mediated cell lysis. Smets LA, et al. **Biochim Biophys Acta** 1990 Aug 13;1054(1):49–55

Dexamethasone inhibition of rat hepatoma cell growth and cell cycle traverse is reversed by insulin. Spydevold O, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):221–8

Influence of dexamethasone on the lipid distribution of newly synthesized fatty acids in fetal rat lung. Xu ZX, et al. **Biochim Biophys Acta** 1989 Oct 17;1005(3):209–16

Reserpine-induced DST nonsuppression in rats. Lowy MT, et al. **Biol Psychiatry** 1990 Mar 1;27(5):546–8

Glucocorticoids inhibit estradiol-mediated uterine growth: possible role of the uterine estradiol receptor. Rabin DS, et al. **Biol Reprod** 1990 Jan;42(1):74–80

The stimulation of metallothionein synthesis in neuroblastoma IMR-32 by zinc and cadmium but not dexamethasone. Ebadi M, et al. **Biol Trace Elem Res** 1989 Dec;22(3):233–46

Effect of glucocorticoids on the biologic activities of myeloma cells: inhibition of interleukin-1 beta osteoclast activating factor-induced bone resorption. Ishikawa H, et al. **Blood** 1990 Feb 1;75(3):715–20

Inhibition of phorbol ester-induced monocytic differentiation and c-fms gene expression by dexamethasone: potential involvement of arachidonic acid metabolites. Stone RM, et al. **Blood** 1990 Sep 15;76(6):1225–32

Microvascular invasion of rabbit growth plate cartilage and the influence of dexamethasone. Brown RA, et al. **Bone Miner** 1990 Apr;9(1):35–47

The effect of adrenalectomy and dexamethasone on interleukin-1 alpha induced responses in RIF-1 tumours. Braunschweiger PG, et al. **Br J Cancer** 1990 Jan;61(1):9–13

The influence of dexamethasone on behaviorally conditioned immunomodulation and plasma corticosterone. Kusnecov AW, et al. **Brain Behav Immun** 1990 Mar;4(1):50–66

The effect of systemically and locally administered steroids on VIP-like immunoreactive cells in the paraventricular nucleus of adrenalectomized rats. Bartha L, et al. **Brain Res** 1990 Jan 8;506(2):323–6

Cocaine stimulates rat hypothalamic corticotropin-releasing hormone secretion in vitro. Calogero AE, et al. **Brain Res** 1989 Dec 25;505(1):7–11

Glucocorticoids potentiate the dipsogenic action of angiotensin II. Ganesan R, et al. **Brain Res** 1989 Oct 9; 499(1):121–30

Dexamethasone attenuates exercise-induced dental analgesia in man. Kemppainen P, et al. **Brain Res** 1990 Jun 11; 519(1–2):329–32

Increases in the activity of tryptophan hydroxylase from rat cortex and midbrain in response to acute or repeated sound stress are blocked by adrenalectomy and restored by dexamethasone treatment. Singh VB, et al. **Brain Res** 1990 May 14;516(1):66–76

Coordinate and differential regulation of phenylethanolamine N-methyltransferase, tyrosine hydroxylase and proenkephalin mRNAs by neural and hormonal mechanisms in cultured bovine adrenal medullary cells. Stachowiak MK, et al. **Brain Res** 1990 Mar 5;510(2):277–88

PVN steroid implants: effect on feeding patterns and macronutrient selection. Tempel DL, et al. **Brain Res Bull** 1989 Dec;23(6):553–60

Effect of dexamethasone on gonadotrophin secretion in the gonadectomized sow and boar. Frautschy SA, et al. **Can J Vet Res** 1989 Oct;53(4):490–2

31P nuclear magnetic resonance studies of growth inhibition and dexamethasone resistance in human leukemic cells. Post JF, et al. **Cancer Lett** 1990 May 30;51(2):157–62

Glucocorticoid effects on myeloma cells in culture: correlation of growth inhibition with induction of glucocorticoid receptor messenger RNA. Gomi M, et al. **Cancer Res** 1990 Mar 15;50(6):1873–8

Growth-regulating functions of human papillomavirus early gene products in cervical cancer cells acting dominant over enhanced epidermal growth factor receptor expression. von Knebel Doeberitz M, et al. **Cancer Res** 1990 Jun 15; 50(12):3730–6

Antitumor promotion and antiinflammation: down-modulation of AP-1 (Fos/Jun) activity by glucocorticoid hormone. Jonat C, et al. **Cell** 1990 Sep 21; 62(6):1189–204

Functional antagonism between oncoprotein c-Jun and the glucocorticoid receptor. Schüle R, et al. **Cell** 1990 Sep 21; 62(6):1217–26

Transcriptional interference between c-Jun and the glucocorticoid receptor: mutual inhibition of DNA binding due to direct protein-protein interaction. Yang-Yen HF, et al. **Cell** 1990 Sep 21;62(6):1205–15

A comparison of different nutrient media and supplementation with dexamethasone for mouse colon organ culture. Reiss B, et al. **Cell Biol Toxicol** 1984 Oct; 1(1):11–9

Differential regulation by dexamethasone of glucocorticoid receptor messenger RNA concentrations in neuronal cultures derived from fetal rat hypothalamus and cerebral cortex. Pepin MC, et al. **Cell Mol Neurobiol** 1990 Jun; 10(2):227–35

Differential effects of N-methyl-N'-nitro-N-nitrosoguanidine on constitutive and hormone-inducible gene expression in rat hepatoma cells. Miller MS. **Chem Biol Interact** 1990;73(2–3):207–19

The effects of short- and long-term corticosteroid treatment on rat diaphragm contractility and fatigue. Prezant DJ, et al. **Chest** 1990 Mar;97(3 Suppl):104S

Dexamethasone selectively attenuates prostanoid-induced vasoconstrictor responses in vitro. Sessa WC, et al. **Circ Res** 1990 Feb;66(2):383–8

Con A affinity of rat alpha 1-acid glycoprotein (rAGP): changes during inflammation, dexamethasone or phenobarbital treatment as detected by crossed affino immunoelectrophoresis (CAIE) are not only a reflection of biantennary glycan content. Pos O, et al. **Clin Chim Acta** 1989 Sep 29;184(2):121–31

Acute dexamethasone suppression of ACTH secretion stimulated by human corticotrophin releasing hormone, AVP and hypoglycaemia [see comments] Hohnloser J, et al. **Clin Endocrinol (Oxf)** 1989 Aug;31(2):175–84 Comment in: Clin Endocrinol (Oxf) 1990 Feb;32(2):273–4.

The effect of topically applied corticosteroids and zinc on the metallothionein content of skin in an experimental model. Frings MM, et al. **Clin Exp Dermatol** 1989 Nov; 14(6):434–6

Ultrastructural analysis of rat articular cartilage following treatment with dexamethasone and glycosaminoglycan-peptide complex. Annefeld M, et al. **Clin Exp Rheumatol** 1990 Mar-Apr;8(2):151–7

Glutamine metabolism in skeletal muscle of glucocorticoid-treated rats. Ardawi MS, et al. **Clin Sci** 1990 Aug;79(2):139–47

Plasma LH, FSH, testosterone, prolactin and androstenedione in male white-tailed deer after ACTH and dexamethasone administration. Bubenik GA, et al. **Comp Biochem Physiol [A]** 1990;95(1):163–9

Determination of the capacity for proliferation and differentiation of osteoprogenitor cells in the presence and absence of dexamethasone. Bellows CG, et al. **Dev Biol** 1990 Jul;140(1):132–8

The sympathoadrenal lineage in avian embryos. II. Effects of glucocorticoids on cultured neural crest cells. Vogel KS, et al. **Dev Biol** 1990 May;139(1):13–23

Effect of treatment of shell vial cell cultures with dimethyl sulfoxide and dexamethasone and age of MRC-5 monolayers for detection of cytomegalovirus. Fedorko DP, et al. **Diagn Microbiol Infect Dis** 1990 Jan-Feb;13(1):41–4

The dose dependence of glucocorticoid-inducible gene expression results from changes in the number of transcriptionally active templates. Ko MS, et al. **EMBO J** 1990 Sep;9(9):2835–42

Anterior pituitary: triiodothyronine and/or dexamethasone induced changes in protein formation in thyroidectomized and/or adrenalectomized rats. Brtko J, et al. **Endocrinol Exp** 1990 Mar;24(1–2):97–104

Angiotensin II generation in mesenteric arteries in rats: effects of nephrectomy, deoxycorticosterone and dexamethasone. Miyamori I, et al. **Endocrinol Jpn** 1990 Feb; 37(1):9–17

Dexamethasone suppressible hypergonadotropism in an adolescent patient with Prader-Willi syndrome. Shimizu H, et al. **Endocrinol Jpn** 1990 Feb;37(1):165–9

Assays for corticotropin-releasing factor (CRF) using rats treated with morphine, chlorpromazine, dexamethasone and Nembutal. Arimura A, et al. **Endocrinology** 1967 Aug; 81(2):235–45

Recovery of the rat hypothalamic-pituitary-adrenal axis after discontinuation of prolonged treatment with the synthetic glucocorticoid agonist dexamethasone. Calogero AE, et al. **Endocrinology** 1990 Oct;127(4):1574–9

Glucocorticoids regulate ovine hypophysial portal levels of corticotropin-releasing factor and arginine vasopressin in a stress-specific manner. Canny BJ, et al. **Endocrinology** 1989 Nov;125(5):2532–9

Glucocorticoid regulation of rat diencephalon angiotensinogen production. Deschepper CF, et al. **Endocrinology** 1990 Feb;126(2):963–70

Regulation of prolactin secretion in the human B-lymphoblastoid cell line IM-9-P3 by dexamethasone but not other regulators of pituitary prolactin secretion. Gellersen B, et al. **Endocrinology** 1989 Dec;125(6):2853–61

Effects of dexamethasone and vitamin D3 on cartilage differentiation in a clonal chondrogenic cell population. Grigoriadis AE, et al. **Endocrinology** 1989 Oct; 125(4):2103–10

Glucocorticoid and cyclic adenosine 3'5'-monophosphate-mediated induction of cholesterol side-chain cleavage cytochrome P450 (P450scc) in MA-10 tumor Leydig cells. Increases in mRNA are cycloheximide sensitive. Hales DB, et al. **Endocrinology** 1990 Jun; 126(6):2800–8

Glucocorticoid and progestin regulation of eosinophil chemotactic factor and complement C3 in the estrogen-treated rat uterus. Howe RS, et al. **Endocrinology** 1990 Jun;126(6):3193–9

Dexamethasone increases hepatic insulin-like growth factor binding protein-1 (IGFBP-1) mRNA and serum IGFBP-1 concentrations in the rat. Luo J, et al. **Endocrinology** 1990 Sep;127(3):1456–62

Treatment of bone-derived ROS 17/2.8 cells with dexamethasone and pertussis toxin enables detection of partial agonist activity for parathyroid hormone antagonists. McKee RL, et al. **Endocrinology** 1990 Jul; 127(1):76–82

Hormonal regulation of growth hormone receptors in primary cultured rat hepatocytes. Niimi S, et al. **Endocrinology** 1990 Aug;127(2):688–94

Dexamethasone inhibits insulin biosynthesis by destabilizing insulin messenger ribonucleic acid in hamster insulinoma cells. Philippe J, et al. **Endocrinology** 1990 Oct; 127(4):1640–5

Effect of secretagogues on components of the secretory system in AtT-20 cells. Thiele EA, et al. **Endocrinology** 1990 Feb;126(2):809–17

Glucocorticoid repression of 3',5'-cyclic-adenosine monophosphate-dependent human corticotropin-releasing-hormone gene promoter activity in a transfected mouse anterior pituitary cell line. Van LP, et al. **Endocrinology** 1990 Sep;127(3):1412–8

Thyroid hormone and dexamethasone increase the levels of a messenger ribonucleic acid for a mitochondrially encoded subunit but not for a nuclear-encoded subunit of cytochrome c oxidase. Van Itallie CM. **Endocrinology** 1990 Jul;127(1):55–62

Glucocorticoids: potent inhibitors and stimulators of growth hormone secretion. Wehrenberg WB, et al. **Endocrinology** 1990 Jun;126(6):3200–3

Regulation of cytosolic aspartate aminotransferase mRNAs in the Fao rat hepatoma cell line by dexamethasone, insulin and cyclic AMP. Barouki R, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):79–85

Mechanism of glucocorticoid regulation of alkaline phosphatase gene expression in osteoblast-like cells. Green E, et al. **Eur J Biochem** 1990 Feb 22;188(1):147–53

Studies on the structure and regulation of the human hepatic interleukin-6 receptor. Rose-John S, et al. **Eur J Biochem** 1990 May 31;190(1):79–83

Contrasting effects of glucocorticoids on the capacity of T cells to produce the growth factors interleukin 2 and interleukin 4. Daynes RA, et al. **Eur J Immunol** 1989 Dec; 19(12):2319–25

Glucocorticoid hormones reduce the expression of major histocompatibility class I antigens on human epithelial cells. Von Knebel Doeberitz M, et al. **Eur J Immunol** 1990 Jan; 20(1):35–40

Effects of dexamethasone on multiplication and differentiation of rat adipose precursor cells. Xu XF, et al. **Exp Cell Res** 1990 Aug;189(2):247–52

Suppression of plasma androgen levels with a combination therapy of depot-estrogen (Turisteron) and Dexamethasone in patients with prostatic cancer. Stahl F, et al. **Exp Clin Endocrinol** 1989;94(3):239–43

Effects of hormones on functional differentiation of mouse respiratory epithelium. Smith CI, et al. **Exp Lung Res** 1990 May-Jun;16(3):191–209

Number of glucocorticoid receptors in lymphocytes and their sensitivity to hormone action. Petrichenko IE, et al. **Experientia** 1989 Dec 1;45(11–12):1115–7

Additive effects of dexamethasone and calcium on the calcitonin mRNA level in adrenalectomized rats. Besnard P, et al. **FEBS Lett** 1989 Dec 4;258(2):293–6

Glucocorticoid-inducible expression of a glutamine synthetase-CAT-encoding fusion plasmid after transfection of intact chicken retinal explant cultures. Pu HF, et al. **Gene** 1990 May 14;89(2):259–63

Correction by dexamethasone treatment of the altered lipolytic cascade induced by adrenalectomy in rat adipocytes. de Mazancourt P, et al. **Horm Metab Res** 1990 Jan;22(1):22–4

17OH-progesterone response to acute dexamethasone administration in congenital adrenal hyperplasia. Shen SX, et al. **Horm Res** 1989;32(4):136–41

Reciprocal effects of dexamethasone on vasodilatory responses to arachidonic acid and prostanoids in the isolated perfused rabbit kidney. Sessa WC, et al. **Hypertension** 1990 Feb;15(2 Suppl):I93–6

Dexamethasone selectively regulates LPS-inducible gene expression in murine peritoneal macrophages. Narumi S, et al. **Immunopharmacology** 1990 Mar-Apr;19(2):93–101

Increased glucocorticoid responsiveness of CD4+ T-cell clonal lines grown in serum-free media. Chilton DG, et al. **In Vitro Cell Dev Biol** 1990 Jun;26(6):561–70

Effects of prednisolone and dexamethasone on (pro)insulin biosynthesis and insulin release by rat islets of Langerhans. Chandrasekar B, et al. **Indian J Biochem Biophys** 1989 Aug; 26(4):278–9

Effects of dexamethasone on lipid metabolism in rat organs. Kaur N, et al. **Indian J Biochem Biophys** 1989 Dec; 26(6):371–6

Effect of dexamethasone and reserpine on brain synaptosomal phosphorylation in lithium treated rats. Vatal M, et al. **Indian J Exp Biol** 1989 Apr;27(4):385–6

Stimulation of release of Gal beta 1–4GlcNAc alpha 2–6 sialyltransferase from the FAZA hepatoma cell line by dexamethasone and phorbol ester. Harder G, et al. **Int J Biochem** 1990;22(1):11–4

Effect of dexamethasone on the expression of interleukin–2 in a mouse T cell line. Sorg BA, et al. **Int J Biochem** 1989; 21(9):961–70

Hormone and cytotoxic drug responsiveness of cultured human breast cancer cells resistant to specific hormones. Coldham NG, et al. **Int J Cancer** 1990 Apr 15;45(4):712–8

Suppression of c-myc mRNA expression by steroid hormones in HTLV–I–infected T-cell line, KH–2. Koizumi T, et al. **Int J Cancer** 1989 Oct 15;44(4):701–6

Survival and neuritic growth of sympathoadrenal (chromaffin) precursor cells in vitro. Seidl K, et al. **Int J Dev Neurosci** 1989;7(5):465–73

Regulation of self–major histocompatibility complex reactive human T–cell clones. Gilardini Montani MS, et al. **Int J Immunopharmacol** 1990;12(3):255–60

Effect of dexamethasone on mechanisms responsible for regulation of polyclonal B–cell response. Pryjma J, et al. **Int J Immunopharmacol** 1989;11(8):871–7

Corticosteroid treatment of laser retinal damage affects prostaglandin E2 response. Naveh N, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):9–13

Identification of nuclear proteins that bind to the glucocorticoid regulatory region of a rat alpha 2u–globulin gene. Addison WR, et al. **J Biol Chem** 1989 Dec 25; 264(36):21891–5

A glucocorticoid–resistant rat hepatoma cell variant contains functional glucocorticoid receptor. Dong Y, et al. **J Biol Chem** 1990 May 5;265(13):7526–31

Differential regulation of beta 1– and beta 2–adrenergic receptor protein and mRNA levels by glucocorticoids during 3T3–F442A adipose differentiation. Fève B, et al. **J Biol Chem** 1990 Sep 25;265(27):16343–9

Agonist–induced destabilization of beta–adrenergic receptor mRNA. Attenuation of glucocorticoid–induced up–regulation of beta–adrenergic receptors. Hadcock JR, et al. **J Biol Chem** 1989 Nov 25;264(33):19928–33

Effect of hormones and development on the expression of the rat 1,25–dihydroxyvitamin D3 receptor gene. Comparison with calbindin gene expression. Huang YC, et al. **J Biol Chem** 1989 Oct 15;264(29):17454–61

Hormonal regulation of transcription of rDNA. The role of TFIC in formation of initiation complexes. Mahajan PB, et al. **J Biol Chem** 1990 Sep 25;265(27):16244–7

Elimination and reconstitution of the requirement for hormone in promoting temperature–dependent transformation of cytosolic glucocorticoid receptors to the DNA–binding state. Meshinchi S, et al. **J Biol Chem** 1990 Mar 25;265(9):4863–70

Thyroid and glucocorticoid hormones regulate the expression of multiple Na,K–ATPase genes in cultured neonatal rat cardiac myocytes. Orlowski J, et al. **J Biol Chem** 1990 Feb 25;265(6):3462–70

Constitutive and glucocorticoid–mediated activation of glutamine synthetase gene expression in the developing chicken retina. Patejunas G, et al. **J Biol Chem** 1990 Sep 5;265(25):15280–5

Regulation of the rat alpha–fetoprotein gene expression in liver. Both the promoter region and an enhancer element are liver–specific and negatively modulated by dexamethasone. Poliard A, et al. **J Biol Chem** 1990 Feb 5;265(4):2137–41

Molecular characterization and acute phase expression of the multiple Mus caroli alpha 1–acid glycoprotein (AGP) genes. Differences in glucocorticoid stimulation and regulatory elements between the rat and mouse AGP genes. Prowse KR, et al. **J Biol Chem** 1990 Jun 25;265(18):10201–9

Dexamethasone negatively regulates phenobarbitone–activated transcription but synergistically enhances cytoplasmic levels of cytochrome P–450b/e messenger RNA. Rao MV, et al. **J Biol Chem** 1990 Apr 5;265(10):5617–22

Dexamethasone–mediated regulation of 3–methylcholanthrene–induced cytochrome P–450d mRNA accumulation in primary rat hepatocyte cultures. Silver G, et al. **J Biol Chem** 1990 Feb 25;265(6):3134–8

Sodium butyrate in combination with insulin or dexamethasone can terminally differentiate actively proliferating Swiss 3T3 cells into adipocytes. Toscani A, et al. **J Biol Chem** 1990 Apr 5;265(10):5722–30

Transcriptional regulation of the interleukin 2 gene by glucocorticoid hormones. Role of steroid receptor and antigen–responsive 5'–flanking sequences. Vacca A, et al. **J Biol Chem** 1990 May 15;265(14):8075–80

Suppression of rat mammary tumor cell growth in vitro by glucocorticoids requires serum proteins. Characterization of wild type and glucocorticoid–resistant epithelial tumor cells. Webster MK, et al. **J Biol Chem** 1990 Mar 25; 265(9):4831–8

Articular chondrocytes lose their proliferative activity with aging yet can be restimulated by PTH–(1–84), PGE1, and dexamethasone. Livne E, et al. **J Bone Miner Res** 1989 Aug;4(4):539–48

Leukocyte stimulation of intimal lesion formation is inhibited by treatment with diclofenac sodium and dexamethasone. Prescott MF, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 6:S76–81

Suppression of protein kinase C and the stimulation of glucocorticoid receptor synthesis by dexamethasone in human fibroblasts derived from tumor tissue. Gadson P, et al. **J Cell Biochem** 1990 Jun;43(2):185–98

Glucocorticoid dexamethasone reversibly complements EJ–RAS oncogene to transform mouse embryo BALB–3T3 cells. Kovary K, et al. **J Cell Biochem** 1989 Dec;41(4):171–7

Analysis of gene expression during adipogenesis in 3T3–F442A preadipocytes: insulin and dexamethasone control. Moustaid N, et al. **J Cell Biochem** 1990 Apr; 42(4):243–54

Regulation of bone sialoprotein mRNA by steroid hormones. Oldberg A, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):3183–6

Dexamethasone–induced killing of neoplastic cells of lymphoid derivation: lack of early calcium involvement. Bansal N, et al. **J Cell Physiol** 1990 Apr;143(1):105–9

Effects of dexamethasone on induction of monocytic differentiation in human U–937 cells by dimethylsulfoxide. Nakamura T, et al. **J Cell Physiol** 1990 Feb;142(2):261–7

Cyclic adenosine monophosphate acts synergistically with dexamethasone to inhibit the entrance of cultured adult rat hepatocytes into S–phase: with a note on the use of nucleolar and extranucleolar [3H]–thymidine labelling patterns to determine rapid changes in the rate of onset of DNA replication. Vintermyr OK, et al. **J Cell Physiol** 1989 Nov;141(2):371–82

Glycosaminoglycan expression in intestinal epithelial skin–fibroblastic cell cocultures. Fibroblastic cell–mediated effects of glucocorticoids. Bouziges F, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):679–85

Abnormal induction of aromatase activity by dexamethasone in fibroblasts from a patient with cortisol resistance. Berkovitz GD, et al. **J Clin Endocrinol Metab** 1990 Jun; 70(6):1608–11

Arachidonic acid release from cultured human amnion cells: the effect of dexamethasone. Potestio FA, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):647–54

Transient inhibition of RU 486 antiglucocorticoid action by dexamethasone. Raux–Demay MC, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):230–3

The resistance to parathyroid hormone of fibroblasts from some patients with type Ib pseudohypoparathyroidism is reversible with dexamethasone. Silve C, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):631–8

Hormonal regulation of hyaluronate synthesis in cultured human fibroblasts: evidence for differences between retroocular and dermal fibroblasts. Smith TJ, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1019–23

Developmental and hormonal regulation of glucocorticoid receptor messenger RNA in the rat. Kalinyak JE, et al. **J Clin Invest** 1989 Dec;84(6):1843–8

Alterations in 3,3'5'–triiodothyronine metabolism in response to propylthiouracil, dexamethasone, and thyroxine administration in man. LoPresti JS, et al. **J Clin Invest** 1989 Nov;84(5):1650–6

Enhancement by calcium of the detection of cytomegalovirus in cells treated with dexamethasone and dimethyl sulfoxide. West PG, et al. **J Clin Microbiol** 1990 Aug;28(8):1708–10

Immune exclusion of Haemonchus contortus larvae in the sheep: effects on gastric mucin of immunization, larval challenge and treatment with dexamethasone. Newlands GF, et al. **J Comp Pathol** 1990 May;102(4):433–42

Effects of thyroxine and dexamethasone on rat submandibular glands. Sagulin GB, et al. **J Dent Res** 1989 Aug; 68(8):1247–51

Electrical properties of developing rat heart. Effects of dexamethasone. Penefsky ZJ, et al. **J Dev Physiol** 1989 Jul;12(1):27–33

Dexamethasone stimulates arachidonic acid conversion to prostaglandin E2 in human amnion cells. Zakar T, et al. **J Dev Physiol** 1989 Nov;12(5):269–72

Effects of the synthetic glucocorticoid dexamethasone on reproductive function in the ewe. Phillips DJ, et al. **J Endocrinol** 1990 Aug;126(2):289–95

Prevention of endogenous leukotriene production during anaphylaxis in the guinea pig by an inhibitor of leukotriene biosynthesis (MK–886) but not by dexamethasone. Guhlmann A, et al. **J Exp Med** 1989 Dec 1;170(6):1905–18

Dexamethasone and pentoxifylline inhibit endotoxin–induced cachectin/tumor necrosis factor synthesis at separate points in the signaling pathway. Han J, et al. **J Exp Med** 1990 Jul 1;172(1):391–4

Prostaglandin I2 and glucocorticoid–induced rise in arterial pressure in the rat. Falardeau P, et al. **J Hypertens** 1989 Aug;7(8):625–32 (37 ref.)

Dexamethasone therapy selectively increases the sensitivity to noradrenaline of the rat mesenteric circulation. Russo D, et al. **J Hypertens Suppl** 1989 Dec;7(6):S126–7

Modulation of MHC gene expression in human breast carcinoma cells by hormones. Teh M, et al. **J Immunogenet** 1989 Aug–Oct;16(4–5):397–405

Treatment with dexamethasone down–regulates IgE–receptor–mediated signals and up–regulates adenosine–receptor–mediated signals in a rat mast cell (RBL–2H3) line. Collado–Escobar D, et al. **J Immunol** 1990 Jan 1;144(1):244–50

On the mechanism of action of dexamethasone in a rat mast cell line (RBL–2H3 cells). Evidence for altered coupling of receptors and G–proteins. Collado–Escobar D, et al. **J Immunol** 1990 May 1;144(9):3449–57

Regulation of the steady state level of Fc gamma RI mRNA by IFN–gamma and dexamethasone in human monocytes, neutrophils, and U–937 cells. Pan LY, et al. **J Immunol** 1990 Jul 1;145(1):267–75

Glucocorticoid regulation of the humoral immune system. I. In vivo effects of dexamethasone on IgA and IgG in serum and at mucosal surfaces. Wira CR, et al. **J Immunol** 1990 Jan 1;144(1):142–6

A simplified solid–phase assay for the quantitation of native membrane proteins. Application to the measurement of EGF receptor induction by dexamethasone. Von Knebel Doeberitz M, et al. **J Immunol Methods** 1989 Sep 1; 122(2):259–64

Dexamethasone increases heparan sulfate proteoglycan core protein content of glomerular epithelial cells. Kasinath BS, et al. **J Lab Clin Med** 1990 Feb;115(2):196–202

Detection of human cytomegalovirus early and late antigen and DNA production in cell culture and the effects of dimethyl sulfoxide, dexamethasone, and DNA inhibitors on early antigen induction. Li SB, et al. **J Med Virol** 1990 Feb;30(2):97–102

Effect of glucocorticoids on alpha 1–adrenergic receptor binding in rat vascular smooth muscle. Haigh RM, et al. **J Mol Endocrinol** 1990 Aug;5(1):41–8

The influence of dexamethasone on growth hormone (GH). Response to GH–releasing hormone in normal men. Rupprecht R, et al. **J Neural Transm Gen Sect** 1990; 79(1–2):51–7

Temporal effects of dexamethasone on blood–to–brain and blood–to–tumor transport of 14C–alpha–aminoisobutyric acid in rat C6 glioma. Shapiro WR, et al. **J Neurooncol** 1990 Jun;8(3):197–204

Regulation of ionic currents in pheochromocytoma cells by nerve growth factor and dexamethasone. Garber SS, et al. **J Neurosci** 1989 Nov;9(11):3976–87

Differential effects of NGF, FGF, EGF, cAMP, and dexamethasone on neurite outgrowth and sodium channel expression in PC12 cells. Pollock JD, et al. **J Neurosci** 1990 Aug;10(8):2626–37

Glucocorticoids modulate rat hypothalamic corticotrophin–releasing factor release induced by interleukin–1. Cambronero JC, et al. **J Neurosci Res** 1989 Dec;24(4):470–6

The effect of steroids on gentamicin delivery to brain after blood–brain barrier disruption. Neuwelt EA, et al. **J Neurosurg** 1990 Jan;72(1):123–6

Effects of corticosteroid hormones on the electrophysiology of rat distal colon: implications for Na+ and K+ transport. Binder HJ, et al. **J Physiol (Lond)** 1989 Mar;410:425–41

Steroid mediated lysis of lymphoblasts requires the DNA binding region of the steroid hormone receptor. Harbour DV, et al. **J Steroid Biochem** 1990 Jan;35(1):1–9

Effect of interleukin–6/interferon–beta 2 on glucocorticoid action in rat hepatoma cells. Stith RD, et al. **J Steroid Biochem** 1989;34(1–6):479–81

Insulin enhances glucocorticoid induction of gene expression in a sequence specific manner. Tsawdaroglou NH, et al. **J Steroid Biochem** 1989;34(1–6):333–7

Identification of a glucocorticoid–responsive element in Epstein–Barr virus. Kupfer SR, et al. **J Virol** 1990 May; 64(5):1984–90

Comparison of dexamethasone and lovastatin (mevinolin) as growth inhibitors in cultures of T–cell derived human acute leukemia lines (CEM). Bansal N, et al. **Leuk Res** 1989; 13(10):875–82

Transfection of a T–cell line with neo increases dexamethasone cytotoxicity. de Cuevillas F, et al. **Leuk Res** 1990;14(7):623–7

Dexamethasone decreases membrane fluidity of leukemia cells. Kiss C, et al. **Leuk Res** 1990;14(3):221–5

Reduction of T–kininogen messenger RNA levels by dexamethasone in the adjuvant–treated rat. Howard EF, et al. **Life Sci** 1990;46(6):411–7

Saliva and serum cortisol dynamics following intravenous dexamethasone in normal volunteers. McCracken JT, et al. **Life Sci** 1989;45(19):1781–5

Protection from glucocorticoid induced thymic involution by dehydroepiandrosterone. May M, et al. **Life Sci** 1990; 46(22):1627–31

Inhibition of hormone–stimulated ornithine decarboxylase activity by lithium chloride. Richards JF, et al. **Life Sci** 1990;47(3):233–40

Tropic effect of dexamethasone on goldfish melanocytoma cells: induction of calcium–dependent but protein synthesis–independent morphological changes. Shih YL, et al. **Life Sci** 1990;47(4):313–8

Dexamethasone attenuates microvascular ischemia–reperfusion injury in the rat cremaster muscle. Breitbart GB, et al. **Microvasc Res** 1989 Sep;38(2):155–63

In vitro acetylation of the liver HMG non–histone proteins and its modulation by spermine and dexamethasone during aging of rats. Prasad S, et al. **Mol Biol Rep** 1988–89; 13(4):221–4

Amplification and overexpression of c–myc proto–oncogene correlate with the loss of glucocorticoid dependence in rodent cells transformed by human papillomavirus type 16. Crook T, et al. **Mol Carcinog** 1989;2(6):308–13

Epidermal growth factor receptor, but not c–erbB–2, activation prevents lactogenic hormone induction of the beta–casein gene in mouse mammary epithelial cells. Hynes

NE, et al. **Mol Cell Biol** 1990 Aug;10(8):4027–34

Characterization of a complex glucocorticoid response unit in the phosphoenolpyruvate carboxykinase gene. Imai E, et al. **Mol Cell Biol** 1990 Sep;10(9):4712–9

Lipopolysaccharide and dexamethasone induce mouse mammary tumor proviral gene expression and differentiation in B lymphocytes through distinct regulatory pathways. King LB, et al. **Mol Cell Biol** 1990 Aug;10(8):4211–20

Structure, hormonal regulation, and identification of the interleukin-6- and dexamethasone-responsive element of the rat haptoglobin gene. Marinković S, et al. **Mol Cell Biol** 1990 Apr;10(4):1573–83

Hormonal induction of transfected genes depends on DNA topology. Piña B, et al. **Mol Cell Biol** 1990 Feb;10(2):625–33

The permissive role of glucocorticoids on interleukin-1 stimulation of angiotensinogen gene transcription is mediated by an interaction between inducible enhancers. Ron D, et al. **Mol Cell Biol** 1990 Aug;10(8):4389–95

Effect of adrenalectomy and glucocorticoid treatment on the levels of an insulin-sensitive glycosyl-phosphatidylinositol in isolated rat hepatocytes. Cabello MA, et al. **Mol Cell Endocrinol** 1990 Jan 2;68(1):R1–5

Glucocorticoids induce transcription of ribosomal protein genes in rat liver. Flusser G, et al. **Mol Cell Endocrinol** 1989 Jul;64(2):213–22

Dexamethasone control of growth hormone mRNA levels in GH3 pituitary cells is cycloheximide-sensitive and primarily posttranscriptional. Strobl JS, et al. **Mol Cell Endocrinol** 1989 Sep;66(1):71–82

Non-classical antiestrogenic actions of dexamethasone in variant MCF-7 human breast cancer cells in culture. Zhou F, et al. **Mol Cell Endocrinol** 1989 Oct;66(2):189–97

Insulin and dexamethasone stimulate transcription of an amplified glutamine synthetase gene in Chinese hamster ovary cells. Bhandari B, et al. **Mol Endocrinol** 1987 Jun; 1(6):403–7

Expression of a glucose transporter gene cloned from brain in cellular models of insulin resistance: dexamethasone decreases transporter mRNA in primary cultured adipocytes. Garvey WT, et al. **Mol Endocrinol** 1989 Jul; 3(7):1132–41

Cyclic AMP-dependent protein kinase modulation of the glucocorticoid-induced cytolytic response in murine T-lymphoma cells. Gruol DJ, et al. **Mol Endocrinol** 1989 Dec;3(12):2119–27

Opposing influences of glucocorticoid and retinoic acid on transcriptional control in preosteoblasts. Ng KW, et al. **Mol Endocrinol** 1989 Dec;3(12):2079–85

Type I and type II corticosteroid receptor gene expression in the rat: effect of adrenalectomy and dexamethasone administration. Reul JM, et al. **Mol Endocrinol** 1989 Oct; 3(10):1674–80

Dual and selective actions of glucocorticoids upon basal and stimulated growth hormone release in man. Burguera B, et al. **Neuroendocrinology** 1990 Jan;51(1):51–8

Adrenocorticotropin responses to endogenous and exogenous secretagogues in the sheep: specificity of glucocorticoid action. Canny BJ, et al. **Neuroendocrinology** 1990 Feb; 51(2):181–9

Oxytocinergic neurons in rat hypothalamus. Dexamethasone-reversible increase in their corticotropin-releasing factor-41-like immunoreactivity in response to osmotic stimulation. Dohanics J, et al. **Neuroendocrinology** 1990 May;51(5):515–22

Effect of interleukin-1 on ACTH and corticosterone secretion in dexamethasone and adrenalectomized pretreated male rats. Weidenfeld J, et al. **Neuroendocrinology** 1989 Dec;50(6):650–4

Effect of the glucocorticoid milieu on the immunostaining of peptide histidine isoleucine (PHI) in the rat hypothalamus. Watanobe H, et al. **Neurosci Lett** 1990 Jan 1;108(1-2):48–52

Post-transcriptional control of c-myc proto-oncogene expression by glucocorticoid hormones in human T lymphoblastic leukemic cells. Maroder M, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1153–7

Effect of glucocorticoids on oncogene transformed NIH3T3 cells. Matin A, et al. **Oncogene** 1990 Jan;5(1):111–6

Effects of cyclophosphamide and dexamethasone on mast cell populations in Hymenolepis microstoma-infected mice. Novak M, et al. **Parasitology** 1990 Apr;100 Pt 2:337–43

Effects of dexamethasone on macrophages in fetal and neonatal rat lung. Lortie C, et al. **Pediatr Pulmonol** 1990; 8(3):138–44

Osmotic stimulation affects neurohypophysial corticotropin releasing factor-41 content: effect of dexamethasone. Dohanics J, et al. **Peptides** 1990 Jan-Feb;11(1):51–7

Voluntary ethanol intake of individually- or pair-housed rats: effect of ACTH or dexamethasone treatment. Weisinger RS, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):335–41

Modification of CCK-8 hypothermia after chronic administration of dexamethasone in the rat. Pagano G, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:17–8

Purified glucocorticoid receptors bind selectively in vitro to a cloned DNA fragment that mediates a delayed secondary response to glucocorticoids in vivo. Hess P, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2564–8

3' noncoding region of phosphoenolpyruvate carboxykinase mRNA contains a glucocorticoid-responsive mRNA-stabilizing element. Petersen DD, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7800–4

Glucocorticoid up-regulation of high-affinity interleukin 6 receptors on human epithelial cells. Snyers L, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2838–42

Inhibition of vesicular stomatitis virus replication in dexamethasone-treated L929 cells. Lancz G, et al. **Proc Soc Exp Biol Med** 1990 Mar;193(3):190–6

Dexamethasone effects on numbers of cells in lymphocyte subpopulations: changes associated with major depression and DST nonsuppression. Pedersen CA, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):895–906

Effect of dexamethasone on arachidonate metabolism in isolated mouse thymocytes. Duval D. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):149–56

Taste thresholds in man are differentially influenced by hydrocortisone and dexamethasone. Fehm-Wolfsdorf G, et al. **Psychoneuroendocrinology** 1989;14(6):433–40

Neuroendocrine evidence of deranged noradrenergic activity in chronic migraine. Martignoni E, et al. **Psychoneuroendocrinology** 1989;14(5):357–63

Dexamethasone attenuation of the cortisol response to nicotine in smokers. Pomerleau OF, et al. **Psychopharmacology (Berl)** 1990;101(2):284–6

Haematological changes in buffalo calves inoculated with Escherichia coli endotoxin and corticosteroids. Jain NC, et al. **Res Vet Sci** 1989 Nov;47(3):305–8

Role of chromatin structure in transcriptional regulation of MMTV LTR hormone-dependent promoter. Richard-Foy H, et al. **Rev Esp Fisiol** 1990 Mar;46(1):31–7

Effect of steroids on edema and sodium uptake of the brain during focal ischemia in rats. Betz AL, et al. **Stroke** 1990 Aug;21(8):1199–204

Influence of exogenous glucocorticoids and adrenocorticotropic hormone on experimental adrenal autografts. Srougi M, et al. **Surg Forum** 1978;29:109–11

Effects of glucocorticoids on lung glutamine and alanine metabolism. Souba WW, et al. **Surgery** 1990 Aug; 108(2):213–8; discussion 218–9

Dexamethasone increases the release of three 44 kD proteins immunologically related to plasminogen activator inhibitor-1 from human umbilical vein endothelial and rabbit coronary microvessel endothelial cells. Partridge CA, et al. **Thromb Res** 1990 Jan 1;57(1):139–54

Hepatic isometallothioneins in mice: induction in adults and postnatal ontogeny. Kershaw WC, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):267–75

Glucocorticoid-induced DNA fragmentation in acute lymphoblastic leukemia cells. Distelhorst CW, et al. **Trans Assoc Am Physicians** 1988;101:114–24

Differential inhibition of the T cell activation pathway by dexamethasone and cyclosporine. Furue M, et al. **Transplantation** 1990 Mar;49(3):560–4

Experimental infection of bulls with a genital isolate of bovine herpesvirus-4 and reactivation of latent virus with dexamethasone. Dubuisson J, et al. **Vet Microbiol** 1989 Dec; 21(2):97–114

The in vitro effect of corticosteroids on T-lymphocyte subpopulations in patients with ulcerative colitis. Nikolopoulou VN, et al. **Z Gastroenterol** 1990 Feb; 28(2):101–3

[Rapid membrane effects of adrenocorticoids on celiac ganglion cells of guinea pig] Wu LG, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):306–10 (Eng. Abstr.) **(Chi)**

[Effect of dexamethasone on Coxsackie B-2 virus-infected rat beating heart cells in culture] Yang YZ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jul;10(4):346–9 (Eng. Abstr.) **(Chi)**

[The effect of a single dose of dexamethasone on the production of superoxide anion and on the chemotaxis of blood polynuclear neutrophils in the horse] Guelfi JF, et al. **Comp Immunol Microbiol Infect Dis** 1989;12(4):105–13 (Eng. Abstr.) **(Fre)**

[Decrease of gene expression of glycerophosphate dehydrogenase by dexamethasone in differentiated 3T3-F442A cells: antagonism with insulin and antiglucocorticoid RU38486] Moustaïd N, et al. **Reprod Nutr Dev** 1990;30(3):317–24 (Eng. Abstr.) **(Fre)**

[Characterization and pharmacological effect on brain damage as a result of cold injury.] Funk KF, et al. **Biomed Biochim Acta** 1990;49(1):91–5 (Eng. Abstr.) **(Ger)**

[Experimental venous branch occlusion: change in the preretinal oxygen pressure pO2 by dexamethasone] Pournaras CJ, et al. **Klin Monatsbl Augenheilkd** 1990 Jun; 196(6):475–80 (Eng. Abstr.) **(Ger)**

[The dose dependent effect of glycosaminoglycan peptide complex on corticosteroid-induced disordered metabolism in cartilage tissue of rats] Annefeld M. **Z Rheumatol** 1989 Jul-Aug;48(4):188–93 (Eng. Abstr.) **(Ger)**

[Capillary permeability factor produced by C 6 glioma cells: role in peritumoral brain edema and possible mechanism of glucocorticoid action] Ohnishi T, et al. **No To Shinkei** 1989 Nov;41(11):1141–7 (Eng. Abstr.) **(Jpn)**

[Regulation of proliferative and protein-synthesizing reactions in human peripheral blood lymphocytes by glucocorticoids] Polotskaia AV, et al. **Biokhimiia** 1990 Jan; 55(1):102–8 (Eng. Abstr.) **(Rus)**

[Reduced cell sensitivity to glucocorticoid hormones in hypercholesterolemia] Shakhov IuA, et al. **Biokhimiia** 1989 Nov;54(11):1772–9 (Eng. Abstr.) **(Rus)**

[Characteristics of the action of dexamethasone and hydrocortisone on the biosynthesis of mitochondrial and cytoplasmic RNA in the rat liver] Minchenko AG, et al. **Farmakol Toksikol** 1989 Sep-Oct;52(5):54–7 (Eng. Abstr.) **(Rus)**

[Changes in the transcription activity of c-myc genes and heat shock proteins (HSP 70) after incubation of mouse plasmacytoma cells with dexamethasone] Zatsepina OG, et al. **Mol Biol (Mosk)** 1990 Mar-Apr;24(2):391–5 (Eng. Abstr.) **(Rus)**

[Effect of ACTH, dexamethasone, and adrenalectomy on the secretion of testosterone in the rat] Montilla P, et al. **Rev Esp Fisiol** 1989 Dec;45(4):323–6 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Study on clinical and endocrine characteristics of dexamethasone-suppressible hyperaldosteronism compared with those in primary aldosteronism owing to aldosterone-producing adenoma. Yamakita N, et al. **Acta Endocrinol (Copenh)** 1989 Sep;121(3):334–44

Treatment of experimental brain abscess. 2. Effects of combinations of hyaluronidase with antibiotics and dexamethasone. Paşaoğlu A, et al. **Acta Neurochir (Wien)** 1989;100(1-2):79–83

Steroid treatment in primary intracerebral haemorrhage. De Reuck J, et al. **Acta Neurol Belg** 1989 Jan-Feb;89(1):7–11

Steroid-induced disappearance of primary central nervous system lymphoma. Clinical, neuroradiological and pathological findings. Filla A, et al. **Acta Neurol (Napoli)** 1989 Dec;11(6):400–7

Closure of patent ductus arteriosus after treatment with dexamethasone. Heyman E, et al. **Acta Paediatr Scand** 1990 Jun-Jul;79(6-7):698–700

Dexamethasone in the treatment of bronchopulmonary dysplasia. Benini F, et al. **Acta Paediatr Scand Suppl** 1989; 360:108–12

Dexamethasone suppressible hyperaldosteronism: insights into adrenal physiology. Connell JM, et al. **Adv Nephrol** 1990;19:69–77

Dose-response relation for dexamethasone in cold lesion-induced brain edema in rats. Meinig G, et al. **Adv Neurol** 1990;52:295–300

High-dose dexamethasone given long before cerebral ischemia does not ameliorate edema formation. Mima T, et al. **Adv Neurol** 1990;52:544

Effective control of CMF-related emesis with high-dose dexamethasone: results of a double-blind crossover trial with metoclopramide and placebo. Pollera CF, et al. **Am J Clin Oncol** 1989 Dec;12(6):524–9

Cerebrospinal fluid prostaglandins, interleukin 1 beta, and tumor necrosis factor in bacterial meningitis. Clinical and laboratory correlations in placebo-treated and dexamethasone-treated patients. Mustafa MM, et al. **Am J Dis Child** 1990 Aug;144(8):883–7

Familial life-long persistent fever of unknown origin responding to dexamethasone and uronic acids. Herman RH, et al. **Am J Med** 1969 Jan;46(1):142–53

Prevention of myelinolysis in rats by dexamethasone or colchicine. Oh MS, et al. **Am J Nephrol** 1990;10(2):158–61

Corticosteroid-responsive traumatic optic neuropathy. Lam BL, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):99–101

Dexamethasone for meningitis [letter] Girgis NI, et al. **Ann Intern Med** 1990 Sep 1;113(5):410

The effect of ketorolac tromethamine in reducing postoperative inflammation: double-mask parallel comparison with dexamethasone. Flach AJ, et al. **Ann Ophthalmol** 1989 Nov;21(11):407–11

Effect of steroids in maxillofacial surgery. Munro IR, et al. **Ann Plast Surg** 1986 Nov;17(5):440–4

Multicentric reticulohistiocytosis: response to dexamethasone pulse therapy [letter] Pandhi RK, et al. **Arch Dermatol** 1990 Feb;126(2):251–2

Adrenal response in very low birthweight babies after dexamethasone treatment for bronchopulmonary dysplasia. Ng PC, et al. **Arch Dis Child** 1989 Dec;64(12):1721–6

Dexamethasone treatment for congenital adrenal hyperplasia. Young MC, et al. **Arch Dis Child** 1990 Mar;65(3):312–4

Anti-allergic action of glucocorticoids (II). Effect of glucocorticoids on cell mediated (type IV) allergic reactions. Nagai H, et al. **Arerugi** 1989 Jun;38(6):493–500

Successful treatment of subdural haematoma during anticoagulant treatment [see comments] Anderson TJ, et al. **BMJ** 1989 Dec 23-30;299(6715):1566 Comment in: BMJ 1990 Feb 24;300(6723):537–8.

Dexamethasone can potentiate the anti-emetic action of a 5HT3 receptor antagonist on cyclophosphamide induced vomiting in the ferret. Hawthorn J, et al. **Br J Cancer** 1990 Jan;61(1):56–60

Ondansetron (GR38032F) plus dexamethasone: effective anti-emetic prophylaxis for patients receiving cytotoxic chemotherapy. Smith DB, et al. **Br J Cancer** 1990 Feb; 61(2):323–4

Steroids in meningitis [editorial] Tarlow MJ, et al. **Br J Hosp Med** 1989 Nov;42(5):358

Dexamethasone and the serious head injury. Jooma R. **Br J Neurosurg** 1987;1(4):400–3

The effect of dexamethasone on neurapraxia following third molar surgery. Von Arx DP, et al. **Br J Oral Maxillofac Surg** 1989 Dec;27(6):477–80

Pituitary adrenal and gonadal endocrine suppression for the primary treatment of prostate cancer. Williams G, et al.

Br J Urol 1990 May;65(5):504–8
Diuretic, natriuretic and kaliuretic effects of dexamethasone. Paixão AD, et al. Braz J Med Biol Res 1989;22(8):1001–4
Dexamethasone therapy for bacterial meningitis: a time for caution. Infectious Diseases and Immunization Committee, Canadian Paediatric Society. Can Med Assoc J 1990 Feb 15;142(4):307–8
The effect of corticosteroid administration on bleomycin lung toxicity. Jensen JL, et al. Cancer 1990 Mar 15;65(6):1291–7
A phase II randomized trial of megestrol acetate or dexamethasone in the treatment of hormonally refractory advanced carcinoma of the prostate. Patel SR, et al. Cancer 1990 Aug 15;66(4):655–8
A randomized, double-blind comparison of the antiemetic effect of metoclopramide and lorazepam with or without dexamethasone in patients receiving high-dose cisplatin. Stephens SH, et al. Cancer 1990 Aug 1;66(3):443–6
A pilot study of metoclopramide, dexamethasone, diphenhydramine and acupuncture in women treated with cisplatin. Aglietti L, et al. Cancer Chemother Pharmacol 1990;26(3):239–40
Steroid-induced myocardial preservation is associated with decreased cell membrane microviscosity. Engelman RM, et al. Circulation 1989 Nov;80(5 Pt 2):III36–43
Comparative efficacy and tolerability of two antibacterial/anti-inflammatory formulations ('Otomize' spray and 'Otosporin' drops) in the treatment of otitis externa in general practice. Smith RB, et al. Curr Med Res Opin 1990;11(10):661–7
A general practice study to compare the efficacy and tolerability of a spray ('Otomize') versus a standard drop formulation ('Sofradex') in the treatment of patients with otitis externa. Smith RB, et al. Curr Med Res Opin 1990; 12(1):12–8
Dexamethasone aerosol use in an asthmatic nursing-home patient with Parkinson's disease and dementia. Hoffman NB, et al. DICP 1990 Jul–Aug;24(7–8):707–8
Normotensive glucocorticoid-suppressible hyperaldosteronism in adult. Maeda T, et al. Endocrinol Jpn 1989 Dec;36(6):817–25
Potentiation of calcitonin by corticosteroids during the treatment of the hypercalcaemia of malignancy. Hosking DJ, et al. Eur J Clin Pharmacol 1990;38(1):37–41
Prenatal treatment of congenital adrenal hyperplasia: report of a new case. Loeuille GA, et al. Eur J Pediatr 1990 Jan; 149(4):237–40 (21 ref.)
Dexamethasone and spironolactone in the treatment of non-tumorous hyperandrogenism. Preželj J, et al. Gynecol Endocrinol 1989 Dec;3(4):281–8
Dexamethasone-cyclophosphamide pulse therapy in pemphigus. Kaur S, et al. Int J Dermatol 1990 Jun; 29(5):371–4
Treatment of androgenic disorders with dexamethasone: dose-response relationship for suppression of dehydroepiandrosterone sulfate. Redmond GP, et al. J Am Acad Dermatol 1990 Jan;22(1):91–3
Role of dexamethasone in the outcome from acute stroke. Kumar N, et al. J Assoc Physicians India 1989 May; 37(5):315–7 (18 ref.)
Reply from authors. Praziquantel in neurocysticercosis [letter] Misra SC, et al. J Assoc Physicians India 1989 May; 37(5):352–3
Continuous adrenocorticotropin administration in hypopituitarism produces asynchronous increases of deoxycorticosterone and 11-deoxycortisol relative to other reduced zona fasciculata steroids. Kater CE, et al. J Clin Endocrinol Metab 1990 Aug;71(2):305–10
Comments about the need for prenatal treatment of congenital adrenal hyperplasia due to 21-hydroxylase deficiency [editorial] Migeon CJ. J Clin Endocrinol Metab 1990 Apr;70(4):836–7
First trimester prenatal treatment and molecular genetic diagnosis of congenital adrenal hyperplasia (21-hydroxylase deficiency). Speiser PW, et al. J Clin Endocrinol Metab 1990 Apr;70(4):838–48 (38 ref.)
Schilder's myelinoclastic diffuse sclerosis. Lana-Peixoto MA, et al. J Clin Neuro Ophthalmol 1989 Dec;9(4):236–40; discussion 241
Dexamethasone-suppressible hyperaldosteronism: a large new kindred. O'Mahony S, et al. J Hum Hypertens 1989 Aug;3(4):255–8
Capillary permeability factor secreted by malignant brain tumor. Role in peritumoral brain edema and possible mechanism for anti-edema effect of glucocorticoids. Ohnishi T, et al. J Neurosurg 1990 Feb;72(2):245–51
Is it time for a registry of clinical trials in pediatrics? [letter] Bonati M. J Pediatr 1990 Apr;116(4):667–8
Prenatal and postnatal corticosteroid therapy to prevent neonatal necrotizing enterocolitis: a controlled trial. Halac E, et al. J Pediatr 1990 Jul;117(1 Pt 1):132–8
Dexamethasone therapy for chronic lung disease in ventilator- and oxygen-dependent infants: a controlled trial. Harkavy KL, et al. J Pediatr 1989 Dec;115(6):979–83
Steroids for respiratory distress syndrome—again [editorial; comment] Taeusch HW, et al. J Pediatr 1990 Aug;117(2 Pt 1):248–50 Comment on: J Pediatr 1990 Aug;117(2 Pt 1):273–82.
Early postnatal dexamethasone therapy in premature infants with severe respiratory distress syndrome: a double-blind, controlled study [see comments] Yeh TF, et al. J Pediatr 1990 Aug;117(2 Pt 1):273–82 Comment in: J Pediatr 1990 Aug;117(2 Pt 1):248–50.
Subconjunctival steroid in the management of uveal juvenile xanthogranuloma: a case report. Treacy KW, et al. J Pediatr Ophthalmol Strabismus 1990 May–Jun; 27(3):126–8
Routine use of dexamethasone for the prevention of postextubation respiratory distress. Ferrara TB, et al. J Perinatol 1989 Sep;9(3):287–90
Clinical and immunological studies on patients with Graves' disease preoperatively treated with corticosteroids and iodides. Kasuga Y, et al. Jpn J Surg 1990 May;20(3):283–9
Prenatal treatment of congenital adrenal hyperplasia [editorial] Lancet 1990 Mar 3;335(8688):510–1
Steroids in rhinoplasty. Griffies WS, et al. Laryngoscope 1989 Nov;99(11):1161–4
A new approach to the treatment of acute schistosomiasis. Lambertucci JR. Mem Inst Oswaldo Cruz 1989 Oct;84 Suppl 1:23–30
Treating endogenous depression [letter] von Oldenburg A. Milit Med 1990 Mar;155(3):A8
Dexamethasone and acute mountain sickness [letter; comment] N Engl J Med 1990 May 10;322(19):1395–6 Comment on: N Engl J Med 1989 Dec 21;321(25):1707–13.
Dexamethasone in the treatment of acute mountain sickness [see comments] Levine BD, et al. N Engl J Med 1989 Dec 21;321(25):1707–13 Comment in: N Engl J Med 1990 May 10;322(19):1395–6.
Prenatal treatment of congenital adrenal hyperplasia due to 21-hydroxylase deficiency. Pang SY, et al. N Engl J Med 1990 Jan 11;322(2):111–5 (41 ref.)
Neurotransmitter amines in brain edema of a rat glioma model. Chang CC. Neurol Med Chir (Tokyo) 1989 Mar; 29(3):187–91
Dexamethasone treatment attenuates the development of ischaemic brain oedema in gerbils. Dux E, et al. Neuroscience 1990;34(1):203–7
The effect of topical dexamethasone and preoperative beta irradiation on a model of glaucoma fistulizing surgery in the rabbit. Miller MH, et al. Ophthalmic Surg 1990 Jan; 21(1):44–54
High dose corticosteroids for treatment of vision loss due to indirect injury to the optic nerve. Seiff SR. Ophthalmic Surg 1990 Jun;21(6):389–95
Combination immunosuppressant and topical steroid therapy for treatment of recurrent major aphthae. A case report. Brown RS, et al. Oral Surg Oral Med Oral Pathol 1990 Jan;69(1):42–4
Dexamethasone treatment for bacterial meningitis in children and adults. Girgis NI, et al. Pediatr Infect Dis J 1989 Dec; 8(12):848–51
Current management of bacterial meningitis. McCracken GH Jr. Pediatr Infect Dis J 1989 Dec;8(12):919–21 (11 ref.)
Dexamethasone in bacterial meningitis: increasing evidence for a beneficial effect. Täuber MG, et al. Pediatr Infect Dis J 1989 Dec;8(12):842–4 (22 ref.)
American Academy of Pediatrics Committee on Infectious Diseases: Dexamethasone therapy for bacterial meningitis in infants and children. Pediatrics 1990 Jul;86(1):130–3
Hypothalamic-pituitary-adrenal axis function in very low birth weight infants treated with dexamethasone. Alkalay AL, et al. Pediatrics 1990 Aug;86(2):204–10
Pulmonary function tests and fluid balance in neonates with chronic lung disease during dexamethasone treatment. Gladstone IM, et al. Pediatrics 1989 Dec;84(6):1072–6
'Medical rhinoplasty' in nasal sarcoidosis. Milford CA, et al. Rhinology 1990 Jun;28(2):137–9
The association of steroids and schistosomicides in the treatment of experimental schistosomiasis. Lambertucci JR, et al. Trans R Soc Trop Med Hyg 1989 May–Jun; 83(3):354–7
[Effect of dexamethasone on the levels of plasma beta-endorphin-like-immunoreactivity in intestinal ischemia shock in the dog] Chen T. Chung Hua Wai Ko Tsa Chih 1989 Jul;27(7):413–6, 445 (Eng. Abstr.) (Chi)
[Adjuvant treatment of tubal surgery. Randomized prospective study of systemically administered corticoids and noxythiolin] Querleu D, et al. J Gynecol Obstet Biol Reprod (Paris) 1989;18(7):935–40 (Eng. Abstr.) (Fre)
[Dexamethasone therapy in "bacterial" meningitis? A study with open questions] Marget W. Fortschr Med 1989 Aug 20;107(24):510–1 (Ger)
[Dexamethasone treatment in acute bacterial meningitis (editorial)] Ziv I, et al. Harefuah 1990 Mar 1;118(5):298–300 (Heb)
[Evaluation of antiemetic effect of clonazepam, metoclopramide, dexamethasone and diphenhydramine for prevention of cisplatin-induced vomiting] Hatae M, et al. Gan To Kagaku Ryoho 1990 Aug;17(8 Pt 1):1495–9 (Eng. Abstr.) (Jpn)
[A clinical study of congenital adrenal hyperplasia] Nanbu A, et al. Hinyokika Kiyo 1989 Nov;35(11):1831–7 (Eng. Abstr.) (Jpn)
[Effect of dexamethasone and ACTH on plasma atrial natriuretic polypeptide levels during hemorrhage in rats] Kudo M, et al. Masui 1989 Oct;38(10):1323–8 (Eng. Abstr.) (Jpn)
[A case of glucocorticoid-responsive hyperaldosteronism: follow-up study for 21 years—comparison with cases of 17 alpha-hydroxylase deficiency in Japan] Murase H, et al. Nippon Naibunpi Gakkai Zasshi 1990 Jan 20;66(1):50–82 (66 ref.) (Eng. Abstr.) (Jpn)
[Pharmacological study on Arctostaphylos uva-ursi (L.) Spreng. II. Combined effects of arbutin and prednisolone or dexamethazone on immuno-inflammation] Matsuda H, et al. Yakugaku Zasshi 1990 Jan;110(1):68–76 (Eng. Abstr.) (Jpn)
[The effect of dexamethasone on the metabolism of the hormone regulators of carbohydrate metabolism in the postresuscitation period] Lobov VV, et al. Farmakol Toksikol 1990 Jan–Feb;53(1):53–4 (Eng. Abstr.) (Rus)
[The effect of batriden and dexasone on immune status indices in animals with experimental allergic contact dermatitis] Allamiiarova SA, et al. Vestn Dermatol Venerol 1989; (10):8–10 (Eng. Abstr.) (Rus)
[Treatment of peripheral paresis-paralysis of the facial nerve using corticosteroids] Makević M, et al. Vojnosanit Pregl 1989 Nov–Dec;46(6):435–40 (Eng. Abstr.) (Ser)
[Subdural empyema successfully treated with medical therapy (letter)] Tomàs MT, et al. Neurologia 1989 May; 4(4):149–50 (Spa)
[Postoperative analgesia and dexamethasone] Miralles FS, et al. Rev Esp Anestesiol Reanim 1989 Nov–Dec;36(6):315–21 (Eng. Abstr.) (Spa)

TOXICITY

Brain damage induced by prenatal exposure to dexamethasone in fetal rhesus macaques. I. Hippocampus. Uno H, et al. Brain Res Dev Brain Res 1990 May 1; 53(2):157–67
Effects of postnatal dexamethasone treatment on development of alveoli in adult rats. Sahebjami H, et al. Exp Lung Res 1989 Dec;15(6):961–73
IL-2 protects T cell hybrids from the cytolytic effect of glucocorticoids. Synergistic effect of IL-2 and dexamethasone in the induction of high-affinity IL-2 receptors. Fernández-Ruiz E, et al. J Immunol 1989 Dec 15;143(12):4146–51
Reduction in testicular function in rats. II. Reduction by dexamethasone in fetal and neonatal rats. Lalau JD, et al. Neuroendocrinology 1990 Mar;51(3):289–93
Effects of prenatal dexamethasone or terbutaline exposure on development of neural and intrinsic control of heart rate. Hou QC, et al. Pediatr Res 1989 Dec;26(6):554–7
Prenatal dexamethasone administration disrupts the pattern of cellular development in rat lung. Navarro HA, et al. Teratology 1989 Nov;40(5):433–8

DEXAMETHASONE ISONICOTINATE see under **DEXAMETHASONE**

DEXETIMIDE see under **PIPERIDINES**

DEXPROPRANOLOL see **PROPRANOLOL**

DEXTRAN-IRON COMPLEX see **IRON-DEXTRAN COMPLEX**

DEXTRANASE

THERAPEUTIC USE

Enzymolysis of glomerular immune deposits in vivo with dextranase/protease ameliorates proteinuria, hematuria, and mesangial proliferation in murine experimental IgA nephropathy. Gesualdo L, et al. J Clin Invest 1990 Sep; 86(3):715–22

DEXTRANS

Isolation of rat liver lysosomes by a single two-phase partition on dextran/polyethylene glycol. Osada J, et al. Anal Biochem 1990 Mar;185(2):249–53
Effect of 17 beta-estradiol on partition behavior of human erythrocytes in dextran-poly(ethylene glycol) aqueous phases. Degani D, et al. Biochem Int 1989 Oct;19(4):687–93
On the interaction in solution of a candidate mucoadhesive polymer, diethylaminoethyl-dextran, with pig gastric mucus glycoprotein. Anderson MT, et al. Biochem Soc Trans 1989 Dec;17(6):1101–2
Effect of capsule permeability on growth of CHO cells in Eudragit RL microcapsules: use of FITC-dextran as a marker of capsule quality. Broughton RL, et al. Biomaterials 1989 Sep;10(7):462–5
Contributions of negatively charged chemical groups to the surface-dependent activation of human plasma by soluble dextran derivatives. Nigretto JM, et al. Biomaterials 1989 Sep;10(7):449–54
Poly(ethylene glycol)-induced shrinkage of Sephadex gel. A model system for quantitative analysis of osmoelastic coupling. Ito T, et al. Biophys J 1989 Oct;56(4):707–11
Transplantation of major AB0-incompatible bone marrow: removal of red cells by dextrane sedimentation. Müller A, et al. Folia Haematol (Leipz) 1989;116(3–4):475–9
Biodistribution and magnetic resonance imaging of cross-linked DTPA polysaccharides. Gibby WA, et al. Invest Radiol 1990 Feb;25(2):164–72
Conformational studies of dextran [alpha-(1——6)-D-glucan] Sathyanarayana BK, et al. J Biomol Struct Dyn 1984 Oct;2(2):443–8
Development of a rotavirus plaque assay using Sephadex G-75. Aha PM, et al. J Virol Methods 1990 Apr;28(1):25–31

A novel plaque assay system for paramyxoviruses. Harper DR. **J Virol Methods** 1989 Sep;25(3):347–50

Use of fluorescein isothiocyanate–dextran to measure proton pumping in lysosomes and related organelles. Ohkuma S. **Methods Enzymol** 1989;174:131–54 (74 ref.)

Dextran amines in neuronal tracing [letter; comment] Fritzsch B, et al. **Trends Neurosci** 1990 Jan;13(1):14 Comment on: Trends Neurosci 1989 Sep;12(9):333–5, 340–1.

Pulmonary eosinophilia and granulomatous pulmonary arteritis induced in rats by intravenous Sephadex. Sorden SD, et al. **Vet Pathol** 1990 Jul;27(4):217–22

[A simple method for separating fresh and cryopreserved human sperm using dextran–visotrast density gradient centrifugation] Glander HJ, et al. **Zentralbl Gynakol** 1990; 112(2):91–7 (Eng. Abstr.) **(Ger)**

[Effects of DEAE–dextran, centrifugation, cycloheximide and their combination on infection and growth of Chlamydia psittaci bird isolates] Miyake T, et al. **Kansenshogaku Zasshi** 1990 Jan;64(1):87–95 (Eng. Abstr.) **(Jpn)**

[Biopharmaceutical aspects of a chemical approach to drug delivery: macromolecule–drug conjugates] Sezaki H. **Yakugaku Zasshi** 1989 Sep;109(9):611–21 (64 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Thromboprophylaxis in hip arthroplasty. Dextran with graded compression or preoperative dextran compared in 150 patients. Fredin H, et al. **Acta Orthop Scand** 1989 Dec; 60(6):678–81

Oxygen delivery and demand in conscious pigs subjected to fixed–volume hemorrhage and resuscitated with 7.5% NaCl in 6% Dextran. Hannon JP, et al. **Circ Shock** 1989 Nov;29(3):205–17

Resuscitation of conscious pigs following hemorrhage: comparative efficacy of small–volume resuscitation. Wade CE, et al. **Circ Shock** 1989 Nov;29(3):193–204

Effects of dextran infusion on cardiac output, oxygen delivery, and oxygen utilization in piglets during the first month of life. Meadow WL, et al. **Crit Care Med** 1990 Sep;18(9):980–4

Effects of intraperitoneal transplantation of microcarrier–attached hepatocytes on D–galactosamine–induced acute liver failure in rats. Nagaki M, et al. **Gastroenterol Jpn** 1990 Feb;25(1):78–87

Comparison of crystalloids and colloids for hemodilution in a model of focal cerebral ischemia. Korosue K, et al. **J Neurosurg** 1990 Oct;73(4):576–84

Safety of intraperitoneal 32% dextran 70 as an antiadhesion adjuvant. Ricaurte E, et al. **J Reprod Med** 1989 Aug; 34(8):535–9

[Hemodynamic correction of patients with acute myocardial infarct in hemodynamic subgroup III by plasma–exchange expansion with low–molecular dextran] Daskalov T. **Vutr Boles** 1990;29(1):43–51 (Eng. Abstr.) **(Bul)**

[Treatment of decubitus ulcer with Crilanomer and dextranomer] Esch B, et al. **Z Hautkr** 1989 Dec 15; 64(12):1135–8 (Eng. Abstr.) **(Ger)**

[Conservative treatment of Bell's palsy—high dose steroid infusion with low–molecular dextran] Kinishi M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 May;92(5):694–702 (Eng. Abstr.) **(Jpn)**

[Rheologic effects of normovolemic hemodilution] Kuznetsov NA, et al. **Anesteziol Reanimatol** 1990 Mar–Apr; (2):18–22 (Eng. Abstr.) **(Rus)**

[Production of transfusion media on the base of erythrocytes and plasma substitute solutions] Selivanov EA, et al. **Gematol Transfuziol** 1990 May;35(5):23–5 (66 ref.) (Eng. Abstr.) **(Rus)**

[Administration of immunocorrective agents into the greater omentum in the complex treatment of non–circumscribed peritonitis] Usov SN, et al. **Klin Khir** 1990;(1):46–7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Hyskon (R) (32% dextran 70), hysteroscopic surgery and pulmonary edema [letter; comment] Schinagl EF. **Anesth Analg** 1990 Feb;70(2):223–4 Comment on: Anesth Analg 1989 May;68(5):686–7.

Renal failure associated with the use of dextran–40. Zwaveling JH, et al. **Neth J Med** 1989 Dec;35(5–6):321–6

[Intraoperative anaphylactic shock—report of two cases] Chan YF, et al. **Ma Tsui Hsueh Tsa Chi** 1989 Dec; 27(4):389–93 (23 ref.) (Eng. Abstr.) **(Chi)**

[Morphology of renal structures in the dog after prolonged administration of Plasmacair] Boutet G, et al. **Agressologie** 1989 Oct–Nov;30(9–10):525–8 (Eng. Abstr.) **(Fre)**

[Fetal distress after use of dextran for peridural anesthesia in a cesarean program] Rosay H, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R67 **(Fre)**

[An anaphylactic–type accident caused by a dextran solution in a parturient] Rosay H, et al. **Cah Anesthesiol** 1989 Nov; 37(7):541–2 **(Fre)**

[Clinico–morphological characteristics of the family of diseases: cytomegalic inclusion disease, iatrogenic thesaurismosis and septicemia] Samokhin PA, et al. **Pediatriia** 1990;(3):32–6 (Eng. Abstr.) **(Rus)**

ANALYSIS

The number of molecules taken up by electroporated cells: quantitative determination. Bartoletti DC, et al. **FEBS Lett** 1989 Oct 9;256(1–2):4–10

High–performance size–exclusion chromatographic procedure for the determination of fluoresceinyl isothiocyanate dextrans of various molecular masses in biological media. Kurtzhals P, et al. **J Chromatogr** 1989 Jun 30;491(1):117–27

A monoclonal antibody that recognizes 2,3–, 2,6–, and 4,6–disulphate ester ring substitution in pyranose–containing polysaccharides. Its production, characterization and application for the quantitation of pentosan polysulphate, dextran sulphate, glycosaminoglycan polysulphate and chondroitin sulphate E. Kongtawelert P, et al. **J Immunol Methods** 1990 Jan 24;126(1):39–49

[Measurement of molecular weight of dextran by low angle laser light scattering photometer] Zhou RZ, et al. **Yao Hsueh Hsueh Pao** 1989;24(8):637–40 (Eng. Abstr.) **(Chi)**

ANTAGONISTS & INHIBITORS

Desmopressin reverses effects of dextran on von Willebrand factor [letter] Flordal PA, et al. **Thromb Haemost** 1989 Jun 30;61(3):541

BLOOD

Dextran concentrations in plasma and urine following administration of 6% dextran–70/7.5% NaCl to hemorrhaged and euvolemic conscious swine. Dubick MA, et al. **Circ Shock** 1989 Dec;29(4):301–10

Establishment of a bioassay to determine serum levels of dextran sulfate and pentosan polysulfate, two potent inhibitors of human immunodeficiency virus. Witvrouw M, et al. **J Acquir Immune Defic Syndr** 1990;3(4):343–7

Determination of absolute amounts of heparin and of dextran sulfate in plasma in microgram quantities. Jaques LB, et al. **J Lab Clin Med** 1990 Apr;115(4):422–32

DIAGNOSTIC USE

Gap junctions between odontoblasts revealed by transjunctional flux of fluorescent tracers. Ushiyama J. **Cell Tissue Res** 1989 Dec;258(3):611–6

Iliopelvic lymphoscintigraphy with 99mTc–dextran in malignant lymphoma. Naldöken S, et al. **Eur J Nucl Med** 1990;16(3):143–7

Assessment of the sephadex technique for selection of X–bearing human sperm by analysis of sperm chromosomes, deoxyribonucleic acid and Y–bodies [see comments] Beckett TA, et al. **Fertil Steril** 1989 Nov; 52(5):829–35 Comment in: Fertil Steril 1990 Jun;53(6):1111–4.

Internal mammarial lymphoscintigraphy with SPECT after ultrasound–guided injection of 99mTc–dextran. Unlü M, et al. **Nuklearmedizin** 1990 Feb;29(1):35–9

Evaluation of Gd–DTPA–labeled dextran as an intravascular MR contrast agent: imaging characteristics in normal rat tissues. Wang SC, et al. **Radiology** 1990 May;175(2):483–8

[Indirect articular lymphography using Tc 99m–labeled Dextran in animals] Albuquerque M, et al. **Rev Chir Orthop** 1990;76(2):80–4 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Selective removal of anti–double–stranded DNA antibodies by immunoadsorption with dextran sulphate in a patient with systemic lupus erythematosus. Kinoshita M, et al. **Ann Rheum Dis** 1989 Oct;48(10):856–60

Reduction of immunogenicity by covalent modification of murine and rabbit immunoglobulins with oxidized dextrans of low molecular weight. Fagnani R, et al. **Cancer Res** 1990 Jun 15;50(12):3638–45

The subsites of monoclonal anti–dextran IgA W3129. Glaudemans CP, et al. **Carbohydr Res** 1989 Jul 15; 190(2):267–77

Absence of demonstrable phospholipid turnover in B cells stimulated by low mitogenic concentrations of dextran–anti–immunoglobulin conjugates. Brunswick M, et al. **Eur J Immunol** 1990 Apr;20(4):855–61

Does vaccination of splenectomized patients against pneumococci induce dextran–reactive antibodies? Ljungström KG, et al. **Int Arch Allergy Appl Immunol** 1989; 90(1):8–10

Regulation of the anti–alpha(1——3) dextran IgG antibody response of BALB/c mice by idiotype–specific T suppressor lymphocytes. Stäb F, et al. **J Immunol** 1990 Jan 1;144(1):53–9

Rabbit antisera to the variable region domains of an anti–alpha(1——6) dextran using E. coli–produced VL and VH fusion proteins as immunogens. Black A, et al. **J Immunol Methods** 1990 Feb 20;127(1):123–30

Characterization of lambda class antibodies from the BALB/c memory response to a [glucosyl–alpha(1——3) glucosyl]–protein conjugate. Tittle TV, et al. **Mol Immunol** 1989 Sep;26(9):809–17

METABOLISM

Dialysate to blood transport of macromolecules during peritoneal dialysis. Leypoldt JK, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1851–9

Adsorption of anti–dsDNA antibodies by immobilized polyanionic compounds. Aotsuka S, et al. **Clin Exp Immunol** 1990 Feb;79(2):215–20

Concentration of Babesia bigemina–infected erythrocytes using a dextran sulphate affinity column. Goodger BV, et al. **Int J Parasitol** 1989 Dec;19(8):939–41

Extravascular distribution of low–density lipoprotein and dextran in a high–permeability state. Rutledge JC, et al. **Microvasc Res** 1990 Jul;40(1):137–56

Dextran deposits in tissues of patients undergoing haemodialysis. Bergonzi G, et al. **Nephrol Dial Transplant** 1990;5(1):54–8

Intestinal macromolecular transmission in underprivileged and unaffected newborn pigs: implication for survival of underprivileged pigs. Svendsen LS, et al. **Res Vet Sci** 1990 Mar;48(2):184–9

PHARMACOKINETICS

Pharmacokinetic analysis of dextran sulfate in rats as pertains to its clinical usefulness for therapy of HIV infection. Hartman NR, et al. **AIDS Res Hum Retroviruses** 1990 Jun; 6(6):805–12

Permeability of neutral vs. anionic dextrans in cultured brain microvascular endothelium. Sahagun G, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H162–6

Uptake of fluorescence–labeled dextrans by 10T 1/2 fibroblasts following permeation by rectangular and exponential–decay electric field pulses. Liang H, et al. **Biotechniques** 1988 Jun;6(6):550–2, 554, 556–8

Clearance of charged and uncharged dextrans from normal and injured lungs. Barrowcliffe MP, et al. **J Appl Physiol** 1990 Jan;68(1):341–7

Effects of albumin, dextran, and hyaluronidase on pulmonary interstitial conductivity. Lai–Fook SJ, et al. **J Appl Physiol** 1989 Aug;67(2):606–13

Analysis of microvascular permeability to macromolecules by video–image digital processing. Bekker AY, et al. **Microvasc Res** 1989 Sep;38(2):200–16

Disposition characteristics of macromolecules in tumor–bearing mice. Takakura Y, et al. **Pharm Res** 1990 Apr;7(4):339–46

Atriopeptin does not augment the transvascular flux of macromolecules in the hamster cheek pouch. Gawlowski DM, et al. **Proc Soc Exp Biol Med** 1990 Jun;194(2):131–5

Increased gut permeability to fluorescein isothiocyanate–dextran after total parenteral nutrition in the rat. Purandare S, et al. **Scand J Gastroenterol** 1989 Aug; 24(6):678–82

[The role of posterior capsule on diffusion of dextran from vitreous to the anterior chamber] Nezu N. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1126–32 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Plasma substitution with 3% dextran–60 in orthopaedic surgery: influence on plasma colloid osmotic pressure, coagulation parameters, immunoglobulins and other plasma constituents. Bergman A, et al. **Acta Anaesthesiol Scand** 1990 Jan;34(1):21–9

Dextran and release of prostacyclin from ex vivo perfused rabbit arteries and veins. Brunkwall J, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):225–8

Hageman factor activation by polysaccharides: effect of molecular weight. Silverberg M. **Adv Exp Med Biol** 1989; 247A:453–60

Anti–HIV activity of dextran sulphate as determined under different experimental conditions. Nakashima H, et al. **Antiviral Res** 1989 Jun–Jul;11(5–6):233–46

Assessment of procollagen processing defects by fibroblasts cultured in the presence of dextran sulphate. Bateman JF, et al. **Biochem J** 1990 May 1;267(3):573–7

The inositol 1,4,5–trisphosphate receptor binding sites of platelet membranes. pH–dependency, inhibition by polymeric sulphates, and the possible presence of arginine at the binding site. O'Rourke F, et al. **Biochem J** 1990 Apr 15;267(2):297–302

Calcium–dependent polymerization of human serum amyloid P component is inhibited by heparin and dextran sulfate. Hamazaki H. **Biochim Biophys Acta** 1989 Oct 19; 998(3):231–5

Size determination of red blood cell aggregates induced by dextran using ultrasound backscattering phenomenon. Boynard M, et al. **Biorheology** 1990;27(1):39–46

Selective inhibition by vasocortin of histamine release induced by dextran and concanavalin–A from rat peritoneal cells. Carnuccio R, et al. **Br J Pharmacol** 1989 Sep; 98(1):32–4

Do lymphocytes play a pro–inflammatory role in any pharmacological type of rat paw edema? Engrácia–de–Moraes JR, et al. **Braz J Med Biol Res** 1989; 22(2):179–87

High molecular weight dextran sulfate inhibits intracellular Ca2+ release and decreases growth factor–induced increases in intracellular free Ca2+ in Swiss 3T3 fibroblasts. Seewald MJ, et al. **Cancer Commun** 1989; 1(3):151–6

Time–dependent conformational change of thrombin molecules induced by sulfated polysaccharides. Oshima G. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1324–8

Short–term effects of diethylaminoethyl–dextran on postprandial gastrointestinal hormone responses in man.

Soldani G, et al. **Drugs Exp Clin Res** 1990;16(2):67–73
Permeabilization of hepatocytes by a saponin and the effects of dextran. Wassler M, et al. **Eur J Cell Biol** 1990 Apr; 51(2):252–8
Does dextran 40 reduce early graft thrombogenicity? An experimental investigation on patency and platelet deposition on prosthetic graft materials in sheep. Lindblad B, et al. **Eur J Vasc Surg** 1990 Aug;4(4):341–4
Efficient gene transfer by sequential treatment of mammalian cells with DEAE–dextran and deoxyribonucleic acid. Holter W, et al. **Exp Cell Res** 1989 Oct;184(2):546–51
Further characterization of sulfated homopolysaccharides as anti–HIV agents. Sugawara I, et al. **Experientia** 1989 Oct 15;45(10):996–8
32% dextran 70 (Hyskon) inhibits lymphocyte and macrophage function in vitro: a potential new mechanism for adhesion prevention. Rein MS, et al. **Fertil Steril** 1989 Dec;52(6):953–7
Injection of dextran sulphate enhances in mice the stimulatory influence of serum on growth of haemopoietic tissue colonies (GM–CFC) in vitro. Vacek A, et al. **Folia Biol (Praha)** 1989;35(4):261–5
The effect of dextran sulphate on CFU–S and nucleic acids in blood and haemopoietic tissues in irradiated mice. Pado D, et al. **Folia Haematol (Leipz)** 1990;117(2):339–46
Survival and phenol red metabolism in chick embryo hepatocytes cultured in the serum–free medium 199 supplemented with dextran T–500 and antioxidants. Guzik K, et al. **Folia Histochem Cytobiol** 1989;27(3):125–30
Optimization of the in vitro packaging efficiency of bacteriophage T7 DNA: effects of neutral polymers. Son M, et al. **Gene** 1989 Oct 30;82(2):321–5
Dynamics of avian inflammatory response to cross–linked dextran. Changes in avian blood leukocyte populations. Golemboski KA, et al. **Inflammation** 1990 Feb;14(1):31–40
A longitudinal comparative histometric study of the biocompatibility of three local hemostatic agents. Mattsson T, et al. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):47–50
Maximal oxygen uptake relative to plasma volume expansion. Coyle EF, et al. **Int J Sports Med** 1990 Apr;11(2):116–9
Sulfated polysaccharides as potent inhibitors of HIV–induced syncytium formation: a new strategy towards AIDS chemotherapy. Baba M, et al. **J Acquir Immune Defic Syndr** 1990;3(5):493–9
Differential inhibition of HIV–1 cell binding and HIV–1–induced syncytium formation by low molecular weight sulphated polysaccharides. Montefiori DC, et al. **J Antimicrob Chemother** 1990 Mar;25(3):313–8
Highly sulfated glycosaminoglycans augment the cross–linking of vitronectin by guinea pig liver transglutaminase. Functional studies of the cross–linked vitronectin multimers. Sane DC, et al. **J Biol Chem** 1990 Feb 25;265(6):3543–8
Dextran sulfate and pentosan polysulfate (HOE/BAY 946), potent anti–HIV–agents, inhibit protein kinase C. Schiebler W, et al. **J Protein Chem** 1989 Jun;8(3):362–3
Hypertonic saline and dextran: impact on cardiac function in the isolated rat heart. Brown JM, et al. **J Trauma** 1990 Jun;30(6):646–50; discussion 650–1
Inhibition of human immunodeficiency virus type 1 RNase H by sulfated polyanions. Moelling K, et al. **J Virol** 1989 Dec;63(12):5489–91
Effect of dextran on the stability of isolated, perfused rat heart. Okada T. **Jpn J Physiol** 1989;39(6):943–8
Effect of low molecular weight proteins and dextran on renal cathepsin B and L activity. Olbricht CJ, et al. **Kidney Int** 1990 Mar;37(3):918–26
Effects of normovolemic hemodilution on blood flow in the rabbit ear. Frost–Arner L, et al. **Microsurgery** 1990; 11(1):19–24
Dextran sulfate prevents LTB4–induced permeability increase, but not neutrophil emigration, in the hamster cheek pouch. Rosengren S, et al. **Microvasc Res** 1989 Nov; 38(3):243–54
Hydroxyurea as a suppressor of the radioprotective effect of dextran sulfate on bone marrow hemopoietic stem cells in mice. Vacek A, et al. **Neoplasma** 1990;37(2):159–66
An in vitro and clinical comparison of corneal storage with chondroitin sulfate corneal storage medium with and without dextran. Lass JH, et al. **Ophthalmology** 1990 Jan; 97(1):96–103
Effect of dextran sulfate on renal accumulation of gentamicin. Kikuchi S, et al. **Pharm Res** 1990 Jun;7(6):644–7
Lowering of plasma cholesterol in herbivores and omnivores by low molecular weight dextran. Adam O, et al. **Res Exp Med (Berl)** 1989;189(4):241–7
Changes in the plasma protease systems during open–heart surgery with dextran vs. Ringer acetate as priming solution. Kongsgaard UE, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):253–8
Prolonged radioprotective activity of WR–2721 linked to dextran. Mönig H, et al. **Strahlenther Onkol** 1990 Mar; 166(3):235–41
Dextran sulfate and other polyanionic anti–HIV compounds specifically interact with the viral gp120 glycoprotein expressed by T–cells persistently infected with HIV–1. Schols D, et al. **Virology** 1990 Apr;175(2):556–61
[Morphology of the corneal endothelium following preservation in dextran or chondroitin sulfate containing culture media] Abramo F, et al. **Fortschr Ophthalmol** 1990; 87(3):234–6 (Eng. Abstr.) **(Ger)**
[The metabolism of organ cultures of cornea in TC 199 with added dextran 500 or hydroxyethyl starch 450] Reim M, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):76–80 (Eng. Abstr.) **(Ger)**
[Studies of the immunostimulating properties of lipopolysaccharides and dextran sulfate based on a model of radiogenic immunodepression] Prokofjev SA, et al. **Radiobiol Radiother (Berl)** 1990;31(3):247–55 (Eng. Abstr.) **(Ger)**
[Erythrocyte elongation with 10% dextran 40,000: comparison of 2 substances] Költringer P, et al. **Wien Med Wochenschr** 1990 Feb 15;140(3):60–3 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Low molecular weight heparin compared with dextran as prophylaxis against thrombosis after total hip replacement. Mätzsch T, et al. **Acta Chir Scand** 1990 Jun–Jul; 156(6–7):445–50
Mannitol and dextran increase cochlear blood flow in normotensive and spontaneously hypertensive rats. Quirk WS, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun; 109(5–6):383–8
Interferon–inducer Retrogen as a novel compound to treat AIDS [letter] Ki P. **AIDS** 1989 Dec;3(12):858–9
Bimodal treatment with nimodipine and low–molecular–weight dextran for focal cerebral ischemia in the rat. Salgado AV, et al. **Ann Neurol** 1989 Nov; 26(5):621–7
Hypertonic saline dextran resuscitation of thermal injury. Horton JW, et al. **Ann Surg** 1990 Mar;211(3):301–11
Therapeutic effect of isovolemic hemodilution with dextran 60 on the impairment of pancreatic microcirculation in acute biliary pancreatitis. Klar E, et al. **Ann Surg** 1990 Mar; 211(3):346–55
Capillary narrowing in hemorrhagic shock is rectified by hyperosmotic saline–dextran reinfusion. Mazzoni MC, et al. **Circ Shock** 1990 Aug;31(4):407–18
The preoperative prevalence and postoperative incidence of thromboembolism in patients with hip fractures treated with dextran prophylaxis. Roberts TS, et al. **Clin Orthop** 1990 Jun;(255):198–203
Cerebral electrophysiologic effects of resuscitation with hypertonic saline–dextran after hemorrhage. Ducey JP, et al. **Crit Care Med** 1990 Jul;18(7):744–9
Cardiorespiratory function after replacement of blood loss with hydroxyethyl starch 120, dextran–70, and Ringer's acetate in pigs. Linko K, et al. **Crit Care Med** 1989 Oct; 17(10):1031–5
Hypertonic saline resuscitation: saturated salt–dextran solutions are equally effective, but induce hemolysis in dogs [see comments] Rocha e Silva M, et al. **Crit Care Med** 1990 Feb;18(2):203–7 Comment in: Crit Care Med 1990 Feb;18(2):245.
Dextran following transluminal angioplasty [letter; comment] Bergqvist D. **Eur J Vasc Surg** 1990 Feb;4(1):109–10 Comment on: Eur J Vasc Surg 1989 Apr;3(2):127–33.
For heavy users of dextran who don't read Acta Chirurgica Scandinavica [letter; comment] Heinonen PK. **Fertil Steril** 1990 Jun;53(6):1109 Comment on: Fertil Steril 1989 Jun;51(6):1053–4.
Transient liver function disturbances after the intraperitoneal use of 32% dextran 70 as adhesion prophylaxis in infertility surgery. Weinans MJ, et al. **Fertil Steril** 1990 Jan; 53(1):159–61
A randomized, double–blind, crossover comparison of iloprost with dextran in patients with peripheral arterial occlusive disease. Ylitalo P, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 May;28(5):197–204
A controlled study of Dextran 40: effect on cerebral blood flow and metabolic rates in acute head trauma. Artru F, et al. **Intensive Care Med** 1989;15(8):499–504
Prevention of venous thrombosis after total knee arthroplasty. Comparison of antithrombin III and low–dose heparin with dextran. Francis CW, et al. **J Bone Joint Surg [Am]** 1990 Aug;72(7):976–82
Effectiveness of hypertonic saline–dextran 70 for initial fluid resuscitation of major burns. Onarheim H, et al. **J Trauma** 1990 May;30(5):597–603
Experimental inhalation injury with concomitant surface burn: dextran resuscitation improves lung water and oxygenation. Schenk WG 3d, et al. **J Trauma** 1990 Jul; 30(7):813–8; discussion 818–9
[Cerebral infarction in 141 cases treated by traditional Chinese medicine and Western medicine] Wu BQ. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):656–7, 644 (Eng. Abstr.) **(Chi)**
[A large case load of patients with dyslipidemia: effects of treatment with deae–dextran] Barone A, et al. **Clin Ter** 1990 May 31;133(4):239–43 (Eng. Abstr.) **(Ita)**
[Preliminary results of an open study on the effects of DEAE–dextran on various lipid metabolism parameters in dyslipidemic subjects] Graziani P, et al. **Clin Ter** 1989 Nov 15;131(3):183–7 (Eng. Abstr.) **(Ita)**
[Analysis of the treatment of pseudomyxoma peritonei—cytoreductive surgery with chemotherapy and intraperitoneal inoculation after washing with dextran] Kataoka A, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Oct 20;24(10):2394–9 (Eng. Abstr.) **(Jpn)**
[The efficacy of rheopolyglucin–based blood correctors in acute blood loss in rats] Levin GS, et al. **Patol Fiziol Eksp Ter** 1990 Jan–Feb;(1):40–3 (Eng. Abstr.) **(Rus)**
[Filling of the dental alveolus with oksitselodeks in perforation of the maxillary sinus] Dikil NM. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):76 **(Rus)**
[The efficacy of using rheopolyglucin in the combined treatment of patients with ischemic stroke] Vinichuk SM, et al. **Vrach Delo** 1989 Nov;(11):54–7 (Eng. Abstr.) **(Rus)**

TOXICITY

Various connective–tissue reactions as influenced by dextrans of different molecular weight. Selye H, et al. **Ann Allergy** 1968 Jan;26(1):1–9
Effect of oral dextran sulfate on the mouse intestinal tract. Wells CL, et al. **J Acquir Immune Defic Syndr** 1990; 3(4):361–5
Modulation of deferoxamine toxicity and clearance by covalent attachment to biocompatible polymers. Hallaway PE, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):10108–12

DEXTRINS see under **STARCH**

DEXTRO–AMINO ACID OXIDASE see **D–AMINO ACID OXIDASE**

DEXTROAMPHETAMINE

Human d–amphetamine drug discrimination: testing with d–amphetamine and hydromorphone. Lamb RJ, et al. **NIDA Res Monogr** 1989;95:423–4

ADMINISTRATION & DOSAGE

The effect of oral dextroamphetamine on plasma cortisol in major depressive disorder. Myers ED. **Biol Psychiatry** 1989 Oct;26(6):634–6
Stimulant medication and short attention span: a clinical approach. Davy T, et al. **J Dev Behav Pediatr** 1989 Dec; 10(6):313–8
Enhanced dopamine receptor activation in accumbens and frontal cortex has opposite effects on medial forebrain bundle self–stimulation. Olds ME. **Neuroscience** 1990; 35(2):313–25
Discriminative stimulus properties of local anesthetics in d–amphetamine– and pentobarbital–trained pigeons. Zacny JP, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):527–31

ADVERSE EFFECTS

Parker and Radow test of drug withdrawal aversion: opposite effect in rats chronically infused with sufentanil or amphetamine. Mucha RF, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):219–24
Narcolepsy, paranoid psychosis, and analeptic abuse. Leong GB, et al. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):481–3

ANTAGONISTS & INHIBITORS

Protection against d–amphetamine toxicity. Derlet RW, et al. **Am J Emerg Med** 1990 Mar;8(2):105–8
Locomotor effects of amperozide. Antagonism of amphetamine–induced locomotor stimulation. Egbe PC. **Arzneimittelforschung** 1989 Oct;39(10):1223–4
Intrastriatal infusions of ascorbate antagonize the behavioral response to amphetamine. White LK, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):485–9

PHARMACOLOGY

Neurokinin A enhances the stimulatory effects of d–amphetamine on motor activity in the nucleus accumbens of the rat. Van den Bos R, et al. **Acta Physiol Scand** 1989 Dec;137(4):547–8
Neurokinin A enhances the stimulatory effects of d–amphetamine on motor activity in the nucleus accumbens of the rat. Van den Bos R, et al. **Acta Physiol Scand** 1990 Mar;138(3):423–4
Beyond drug effects and dependent variables: the use of the Poisson–Erlang model to assess the effects of D–amphetamine on information processing. Halliday R, et al. **Acta Psychol (Amst)** 1990 Feb;73(1):35–54
Differential effects of the new central adrenergic agonist modafinil and d–amphetamine on sleep and early morning behaviour in elderlies. Saletu B, et al. **Arzneimittelforschung** 1989 Oct;39(10):1268–73
Estrous cycle–dependent variation in amphetamine–induced behaviors and striatal dopamine release assessed with microdialysis. Becker JB, et al. **Behav Brain Res** 1989 Nov 1;35(2):117–25
Amphetamine–like stimulus properties produced by electrical stimulation of reward sites in the ventral tegmental area. Druhan JP, et al. **Behav Brain Res** 1990 May 7;38(2):175–84
Amphetamine microinjections into distinct striatal subregions cause dissociable effects on motor and ingestive behavior. Kelley AE, et al. **Behav Brain Res** 1989 Oct 1;35(1):27–39
Relation between motor asymmetry and direction of rotational behaviour under amphetamine and apomorphine in rats with unilateral degeneration of the nigrostriatal dopamine system. Ziegler MG, et al. **Behav Brain Res** 1990 Jul 9;39(2):123–33
Influence of lesion size and location on amphetamine–facilitated recovery of beam–walking in rats. Goldstein LB, et al. **Behav Neurosci** 1990 Apr;104(2):320–7
Time course of the effect of amphetamine on eating is

biphasic. Jones JR, et al. **Behav Neurosci** 1989 Oct; 103(5):1047–52

6-Hydroxydopamine lesions of the ventral tegmentum abolish D-amphetamine and morphine analgesia in the formalin test but not in the tail flick test. Morgan MJ, et al. **Brain Res** 1990 Jun 11;519(1–2):144–9

Regulation of striatonigral prodynorphin peptides by dopaminergic agents. Trujillo KA, et al. **Brain Res** 1990 Jun 4;518(1–2):244–56

Effects of phenylethylamine on rat locomotor behavior and avoidance learning. Tannhauser SL, et al. **Braz J Med Biol Res** 1989;22(2):213–24

Relationship between the effects of dexamphetamine on locomotion and on striatal [3H]GBR 12783 binding in vivo. Vaugeois JM, et al. **Eur J Pharmacol** 1990 Mar 20; 178(2):221–7

Effects of d-amphetamine, diazepam, and pentobarbital on the schedule-controlled pecking and locomotor activity of pigeons. Bordi F, et al. **J Exp Anal Behav** 1990 Jan; 53(1):87–102

A comparison of the effects of nicotine and (+)-amphetamine on rat behaviour in an unsignalled Sidman avoidance schedule. Balfour DJ. **J Pharm Pharmacol** 1990 Apr;42(4):257–60

Effects of cholecystokinin, d-amphetamine and fenfluramine in rats trained to discriminate 3 from 22 hr of food deprivation. Corwin RL, et al. **J Pharmacol Exp Ther** 1990 May;253(2):720–8

Differential development of tolerance to the effects of d-amphetamine and fenfluramine on food intake in baboons. Foltin RW. **J Pharmacol Exp Ther** 1990 Mar; 252(3):960–9

Biosynthesis of brain 2-phenylethylamine: influence of decarboxylase inhibitors and D-amphetamine. Borison RL, et al. **Life Sci** 1974 Nov 15;15(10):1837–48

Depletion of catecholamines in the brain of rats differentially affects stimulation of locomotor activity by caffeine, D-amphetamine, and methylphenidate. Finn IB, et al. **Neuropharmacology** 1990 Jul;29(7):625–31

Changes in cerebral blood flow and mental state after amphetamine challenge in schizophrenic patients. Mathew RJ, et al. **Neuropsychobiology** 1989;21(3):117–23

Are antagonists of dopamine D1 receptors drugs that attenuate both positive and negative symptoms of schizophrenia? A pilot study in Java monkeys. Ellenbroek BA, et al. **Neuropsychopharmacology** 1989 Sep;2(3):191–9

Does amphetamine preferentially increase the extracellular concentration of dopamine in the mesolimbic system of freely moving rats? Robinson TE, et al. **Neuropsychopharmacology** 1990 Jun;3(3):163–73

Microdialysis studies of psychostimulants. Hoebel BG, et al. **NIDA Res Monogr** 1989;95:343–4

Changes in prodynorphin peptide content following treatment with morphine or amphetamine: possible role in mechanisms of action of drug of abuse. Trujillo KA, et al. **NIDA Res Monogr** 1989;95:550–1

Effects of food deprivation on subjective responses to d-amphetamine and marijuana in humans. Zacny J, et al. **NIDA Res Monogr** 1989;95:490–1

Corticostriatal and thalamic regulation of amphetamine-induced ascorbate release in the neostriatum. Basse-Tomusk A, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):55–60

Effects of d-amphetamine on human aggressive responding maintained by avoidance of provocation. Cherek DR, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):65–71

Delayed effects of amphetamine or phencyclidine: interaction of food deprivation, stress and dose. Coveney JR, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):443–9

Effects of amphetamine and beta-endorphin fragments on maze performance in rats. de Boer S, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):555–61

Haloperidol prevents the reinstatement of amphetamine-rewarded runway responding in rats. Ettenberg A. **Pharmacol Biochem Behav** 1990 Jul; 36(3):635–8

Conditioned aversion after delay place conditioning with amphetamine. Fudala PJ, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):89–92

Effects of cocaine and d-amphetamine on sustained and selective attention in rats. Grilly DM, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):733–9

Effects of d-amphetamine on choice of social versus monetary reinforcement: a discrete-trial test. Higgins ST, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):297–301

Drug effects on an effortful operant: pentobarbital and amphetamine. Newland MC, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):381–7

Memory facilitation produced by dopamine agonists: role of receptor subtype and mnemonic requirements. Packard MG, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):511–8

Acute effects of d-amphetamine in a monkey operant behavioral test battery. Schulze GE, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):759–65

Decreases in behavioral and striatal neuronal responses to dexamphetamine with aging. Warenycia MW, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):489–91

Isodirectional conditioning effects of d-amphetamine and pentobarbital on schedule-controlled operant behavior in pigeons. Watanabe S. **Pharmacol Biochem Behav** 1990 May; 36(1):157–61

Effects of perifornical hypothalamic microinjections of phenylpropanolamine and amphetamine on latency to feed and mash intake in rats. Wellman PJ, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):461–4

Effects of haloperidol on anorexia induced by l-norephedrine and d-amphetamine in adult rats. Wellman PJ. **Pharmacol Biochem Behav** 1990 Feb;35(2):457–60

Amphetamine affects the extinction of self-stimulation differently in prefrontal cortex and posterior hypothalamus of rats. West CH, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):479–84

Effects of cat exposure and cat odors on subsequent amphetamine-induced stereotypy. Williams JL, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):375–80

Effects of food deprivation on subjective responses to d-amphetamine in humans. Zacny JP, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):791–5

Effect of adriamycin and of d-amphetamine on endogenous levels of ascorbic acid in rodents. Miele M, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:13–4

Effects of acute administration of diazepam and d-amphetamine on aggressive and escape responding of normal male subjects. Cherek DR, et al. **Psychopharmacology (Berl)** 1990;100(2):173–81

Comparison of the effects of three indirect dopamine agonists, GK 13, GBR 12783 and dexamphetamine on behavioural tests involving central catecholaminergic transmissions. Duterte-Boucher D, et al. **Psychopharmacology (Berl)** 1990; 101(3):344–53

d-Amphetamine-induced "floating limb" syndrome in young rhesus monkeys. Levin ED, et al. **Psychopharmacology (Berl)** 1990;101(1):112–7

Effects of d-amphetamine and methylphenidate on hyperactivity produced by neonatal 6-hydroxydopamine treatment. Luthman J, et al. **Psychopharmacology (Berl)** 1989;99(4):550–7

Interaction between antidepressants and d-amphetamine on variable-interval performance. Shah K, et al. **Psychopharmacology (Berl)** 1990;100(4):548–54

Amphetamine disruption of prepulse inhibition of acoustic startle is reversed by depletion of mesolimbic dopamine. Swerdlow NR, et al. **Psychopharmacology (Berl)** 1990; 100(3):413–6

Social withdrawal following amphetamine administration to marmosets. Annett LE, et al. **Psychopharmacology (Berlin)** 1989;99(2):222–9

Dose-dependent and baseline-dependent conditioning with d-amphetamine in the place conditioning paradigm. Costello NL, et al. **Psychopharmacology (Berlin)** 1989; 99(2):244–7

Effect of d-amphetamine, secobarbital, and marijuana on choice behavior: social versus nonsocial options. Heishman SJ, et al. **Psychopharmacology (Berlin)** 1989;99(2):156–62

THERAPEUTIC USE

Resolution of atypical chest pain during treatment for idiopathic orthostatic edema [letter] Leskowitz SC, et al. **Am J Gastroenterol** 1990 May;85(5):621–2

Psychostimulants in psychiatry. Warneke L. **Can J Psychiatry** 1990 Feb;35(1):3–10 (60 ref.)

Stimulant drug treatment of hyperactivity: biochemical correlates. Elia J, et al. **Clin Pharmacol Ther** 1990 Jul; 48(1):57–66

Treatment of ADDH in mentally retarded children: a preliminary study. Payton JB, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Sep;28(5):761–7

The use of stimulant medication with children. Phillips S. **J Dev Behav Pediatr** 1989 Dec;10(6):319–20

Dexamphetamine for "speed" addiction [letter] Sherman JP. **Med J Aust** 1990 Sep 3;153(5):306

Differential effects of methylphenidate and dextroamphetamine on the motor activity level of hyperactive children. Borcherding BG, et al. **Neuropsychopharmacology** 1989 Dec;2(4):255–63

Stimulant medication therapy in the treatment of children with attention deficit hyperactivity disorder. Stevenson RD, et al. **Pediatr Clin North Am** 1989 Oct;36(5):1183–97 (89 ref.)

Relative efficacy of long-acting stimulants on children with attention deficit-hyperactivity disorder: a comparison of standard methylphenidate, sustained-release methylphenidate, sustained-release dextroamphetamine, and pemoline. Pelham WE Jr, et al. **Pediatrics** 1990 Aug; 86(2):226–37

TOXICITY

Histological and ultrastructural evidence that D-amphetamine causes degeneration in neostriatum and frontal cortex of rats. Ryan LJ, et al. **Brain Res** 1990 Jun 4;518(1–2):67–77

Effects of lithium on an amphetamine animal model of bipolar disorder. Cappeliez P, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):347–58

Super-reactivity to amphetamine toxicity induced by schedule of reinforcement. Valencia-Flores M, et al. **Psychopharmacology (Berl)** 1990;102(1):136–44

DEXTROCARDIA see under **HEART DEFECTS, CONGENITAL**

DEXTROMETHORPHAN see under **LEVORPHANOL**

DEXTROMORAMIDE

BLOOD

[Chromatographic identification and analysis of dextromoramide in the plasma by the method of high performance liquid chromatography] Misztal G, et al. **Acta Pol Pharm** 1989;46(2):155–9 (Eng. Abstr.) **(Pol)**

METABOLISM

Determination of dextromoramide by capillary gas chromatography and electron impact mass spectrometry. Kintz P, et al. **J Anal Toxicol** 1990 Jul-Aug;14(4):252–3

PHARMACOKINETICS

Tissue distribution of dextromoramide in the rat. Kintz P, et al. **Fundam Clin Pharmacol** 1990;4(2):163–7

[Pharmacokinetics of dextromoramide in the surgical patient] Lançon JP, et al. **Ann Fr Anesth Reanim** 1989;8(5):488–92 (Eng. Abstr.) **(Fre)**

POISONING

A dextromoramide-related fatality. Brewer E. **J Forensic Sci** 1990 Mar;35(2):483–9

Toxicological findings after fatal dextromoramide injection. Kintz P, et al. **J Toxicol Clin Toxicol** 1989;27(6):385–8

TOXICITY

Teratogenic potential of two neurotropic drugs, haloperidol and dextromoramide, tested on mouse embryos. Jurand A, et al. **Teratology** 1990 Jul;42(1):45–54

URINE

Gas chromatographic mass-specific investigation of dextromoramide (Palfium) metabolism in the horse. Reilly PJ, et al. **J Chromatogr** 1990 Jan 5;498(1):35–40

DEXTROPROPOXYPHENE see **PROPOXYPHENE**

DEXTRORPHAN see under **MORPHINANS**

DEXTROSE see **GLUCOSE**

DEXTROSULFENIDOL see **THIAMPHENICOL**

DFP see **ISOFLUROPHATE**

DI GUGLIELMO'S DISEASE see **LEUKEMIA, ERYTHROBLASTIC, ACUTE**

DIABETES, BRONZE see **HEMOCHROMATOSIS**

DIABETES INSIPIDUS

BLOOD

Vasopressin antagonist in early postoperative diabetes insipidus. Seckl JR, et al. **Lancet** 1990 Jun 9; 335(8702):1353–6

CHEMICALLY INDUCED

Nephrogenic diabetes insipidus associated with foscarnet treatment of cytomegalovirus retinitis. Farese RV Jr, et al. **Ann Intern Med** 1990 Jun 15;112(12):955–6

COMPLICATIONS

Transient diabetes insipidus in pregnancy complicated by hypertension and seizures. Combs CA, et al. **Am J Perinatol** 1990 Jul;7(3):287–9

Alobar holoprosencephaly, diabetes insipidus and coloboma without craniofacial abnormalities: a case report. Van Gool S, et al. **Eur J Pediatr** 1990 Jun;149(9):621–2

Diabetes insipidus associated with empty sella: report of two cases [letter] Osella G, et al. **J Endocrinol Invest** 1990 Apr; 13(4):351–2

[Diabetes insipidus in a case of Behçet's disease with neurologic manifestations (letter)] Hamza M, et al. **Presse Med** 1989 Oct 28;18(35):1755 **(Fre)**

[Partial diabetes insipidus and ascitic liver cirrhosis in a patient] Radó J, et al. **Orv Hetil** 1989 Sep 17;130(38):2045–8 (Eng. Abstr.) **(Hun)**

[An unusual association of transient resolving thyrotoxicosis due to painless thyroiditis, hypopituitarism and central diabetes insipidus associated with spontaneous pituitary apoplexy] Sasaki H, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Jan 20;66(1):9–21 (Eng. Abstr.) **(Jpn)**

[Askin tumor with infiltration of the optic nerves and diabetes insipidus (letter)] Martín García G, et al. **Med Clin (Barc)** 1990 Feb 24;94(7):279 **(Spa)**

[Empty sella turcica associated with diabetes insipidus. Presentation of a new case (letter)] de Pablos Velasco PL, et al. **Rev Clin Esp** 1990 Mar;186(5):242–3 **(Spa)**

CONGENITAL

Nephrogenic diabetes insipidus and intracerebral calcification. Schofer O, et al. **Arch Dis Child** 1990 Aug; 65(8):885–7

Fibrinolytic responses to

1-desamino-8-D-arginine-vasopressin in patients with congenital nephrogenic diabetes insipidus. Knoers N, et al. **Nephron** 1990;54(4):322-6

DIAGNOSIS

New imaging techniques in endocrinology: magnetic resonance of the pituitary gland and sella turcica. Scotti G, et al. **Acta Paediatr Scand Suppl** 1989;356:5-14 (14 ref.)
A water deprivation test for the diagnosis of diabetes insipidus in children. Frasier SD, et al. **Am J Dis Child** 1967 Aug;114(2):157-60
Diabetes insipidus in a patient with suspected multiple sclerosis. Voiculescu V, et al. **Neurol Psychiatr (Bucur)** 1990 Apr-Jun;28(2):153-4
[Diagnosis of diabetes insipidus syndrome in children] Kuberger ME, et al. **Pediatriia** 1990;(2):73-7 **(Rus)**

DRUG THERAPY

Indomethacin treatment for polyhydramnios and subsequent infantile nephrogenic diabetes insipidus. Smith LG Jr, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):98-9
Continuous vasopressin replacement in diabetes insipidus. Ralston C, et al. **Arch Dis Child** 1990 Aug;65(8):896-7
Mechanism of the antidiuretic effect of saluretic drugs. Studies in patients with diabetes insipidus. Ramos G, et al. **Clin Pharmacol Ther** 1967 Jul-Aug;8(4):557-65
Amiloride-hydrochlorothiazide versus indomethacin-hydrochlorothiazide in the treatment of nephrogenic diabetes insipidus. Knoers N, et al. **J Pediatr** 1990 Sep;117(3):499-502
Arginine vasopressin versus desmopressin for the treatment of diabetes insipidus in the brain dead organ donor. Debelak L, et al. **Transplant Proc** 1990 Apr;22(2):351-2
Effects of the alpha 2-adrenoceptor antagonists yohimbine and idazoxan on kidney function in intact and diabetes insipidus rats. Farjam A, et al. **Urol Int** 1989;44(5):255-9
[Diabetes insipidus (letter)] Sehested NA. **Ugeskr Laeger** 1989 Nov 13;151(46):3088 **(Dan)**
[Clinical evaluation of 2 new formulations of desmopressin (DDAVP), nasal spray and tablets, in the therapy of diabetes insipidus] Gelli D, et al. **Minerva Endocrinol** 1989 Oct-Dec;14(4):227-32 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Central diabetes insipidus: an ominous sign in severe hypoxic encephalopathy. Hojo M, et al. **Acta Paediatr Scand** 1990 Jun-Jul;79(6-7):701-3
Extending the indications for cerebral protection. Sconzo JM, et al. **Anesth Analg** 1990 Oct;71(4):434-9
Fatal central diabetes mellitus and insipidus resulting from untreated hyponatremia: a new syndrome [see comments] Fraser CL, et al. **Ann Intern Med** 1990 Jan 15;112(2):113-9 Comment in: Ann Intern Med 1990 Apr 15;112(8):632-3. Comment in: Ann Intern Med 1990 May 1;112(9):716-7. Comment in: Ann Intern Med 1990 Jul 1;113(1):84-6.
Diabetes insipidus caused by lymphocytic infundibuloneurohypophysitis. Kojima H, et al. **Arch Pathol Lab Med** 1989 Dec;113(12):1399-401
Transient diabetes insipidus following listeria meningitis. Sloane AE. **Ir Med J** 1989 Sep;82(3):132-4
Diabetes insipidus with spontaneous remission. Ohshima K, et al. **J Endocrinol Invest** 1989 Nov;12(10):713-15
Diabetes insipidus and hypercalcaemia secondary to nasopharyngeal carcinoma. Christmas HE, et al. **J Laryngol Otol** 1990 Jan;104(1):43-4
Langerhan's cell histiocytosis in the sphenoid sinus: a case of diabetes insipidus. Hussain SS, et al. **J Laryngol Otol** 1989 Sep;103(9):877-9 (9 ref.)
Primary cerebral lymphoma presenting with cranial diabetes insipidus. Patrick AW, et al. **Postgrad Med J** 1989 Oct; 65(768):771-2
Neurogenic diabetes insipidus in an initially healthy neonate. Smith BK, et al. **West J Med** 1989 Oct;151(4):460-1
Diabetes insipidus after traumata of two extremes in severity. Yoshida J, et al. **Yonsei Med J** 1990 Mar;31(1):71-3
[Histiocytosis X. Problems of differential diagnosis in adults] Nolte W, et al. **Dtsch Med Wochenschr** 1989 Dec 8; 114(49):1917-20 (Eng. Abstr.) **(Ger)**
[Etiopathogenetic aspects of central diabetes insipidus. Report of a clinical case] Coppola A, et al. **Minerva Med** 1989 Oct;80(10):1119-24 (Eng. Abstr.) **(Ita)**
[A case of pulmonary embolism with diabetes insipidus developed after removal of craniopharyngioma] Takamura Y, et al. **No Shinkei Geka** 1990 Feb;18(2):199-203 (Eng. Abstr.) **(Jpn)**
[Diabetes insipidus in a child caused by acute food hypersensitivity] Shchegiova OS, et al. **Pediatriia** 1990; (2):97-9 **(Rus)**

GENETICS

Derivatives of somatic cell hybrids which carry the human gene locus for nephrogenic diabetes insipidus (NDI) express functional vasopressin renal V2-type receptors. Jans DA, et al. **J Biol Chem** 1990 Sep 15;265(26):15379-82
Molecular analysis of autosomal dominant neurohypophyseal diabetes insipidus. Repaske DR, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):752-7
Arginine vasopressin gene regulation in the homozygous Brattleboro rat. Kim JK, et al. **J Clin Invest** 1990 Jul; 86(1):14-6
Expression of a metallothionein-vasopressin fusion gene in transgenic mice produces hypervasopressinemia and manifestations of nephrogenic diabetes insipidus. Habener JF, et al. **Trans Assoc Am Physicians** 1988;101:155-62
[Long-term course of 6 boys with congenital nephrogenic diabetes insipidus] Kaulitz R, et al. **Klin Padiatr** 1989 Nov-Dec;201(6):425-30 (Eng. Abstr.) **(Ger)**
[Diabetes insipidus in twin sisters] Dem'ianenko SM, et al. **Vrach Delo** 1990 Jan;(1):35 **(Rus)**

METABOLISM

Mental retardation syndrome with renal concentration deficiency and intracerebral calcification. Schofer O, et al. **Eur J Pediatr** 1990 Apr;149(7):470-4
Metallothionein-vasopressin fusion gene expression in transgenic mice. Nephrogenic diabetes insipidus and brain transcripts localized to magnocellular neurons. Habener JF, et al. **J Biol Chem** 1989 Nov 5;264(31):18844-52
Atrial natriuretic peptide in patients with the syndrome of inappropriate antidiuretic hormone secretion and with diabetes insipidus. Kamoi K, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1385-90
Epinephrine and dDAVP administration in patients with congenital nephrogenic diabetes insipidus. Evidence for a pre-cyclic AMP V2 receptor defective mechanism. Bichet DG, et al. **Kidney Int** 1989 Nov;36(5):859-66
Atrial natriuretic peptides in brain nuclei of rats with inherited diabetes insipidus (Brattleboro rats). Bahner U, et al. **Neuroendocrinology** 1990 Jun;51(6):721-7
Induction of V2 receptors in renal medulla of homozygous Brattleboro rats by arginine vasopressin. Cornett LE, et al. **Peptides** 1989 Sep-Oct;10(5):985-91
Antidiuretic hormone reduces the high PGE2 synthesis in papillary collecting duct of DI rats. Jaisser F, et al. **Pflugers Arch** 1989 Aug;414(4):464-8
[Regulation of vasopressin release in primary hypothyroidism and Addison's disease as well as in central diabetes insipidus] Laczi F, et al. **Orv Hetil** 1990 Jun 3; 131(22):1175-80 (36 ref.) (Eng. Abstr.) **(Hun)**
[Kidney tubular transport disorders. Nephrogenic diabetes insipidus] Ishikawa S. **Nippon Rinsho** 1989 Jul;47(7):1641-5 **(Jpn)**

PATHOLOGY

Thickened pituitary stalk on MR images in patients with diabetes insipidus and Langerhans cell histiocytosis. Tien RD, et al. **AJNR** 1990 Jul-Aug;11(4):703-8
Bilaterally dilated upper urinary tract and bladder induced by diabetes insipidus. Himeno Y, et al. **Int Urol Nephrol** 1990;22(2):129-32

PHYSIOPATHOLOGY

Inhibition of renal sympathetic activity and heart rate by vasopressin in hemorrhaged diabetes insipidus rats. Peuler JD, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H706-12
Hypothalamic change and water metabolism following Yttrium Y 90. Hypophysectomy in man. Habener JF, et al. **Arch Neurol** 1966 Feb;14(2):177-83
Normal homeostasis of fibrinolysis in nephrogenic diabetes insipidus in spite of defective V2- receptor-mediated responses of tissue plasminogen activator release. Brommer EJ, et al. **Eur J Clin Invest** 1990 Feb;20(1):72-8
The frequency and natural history of diabetes insipidus in children with Langerhans-cell histiocytosis. Dunger DB, et al. **N Engl J Med** 1989 Oct 26;321(17):1157-62
Transient diabetes insipidus of pregnancy. Krege J, et al. **Obstet Gynecol Surv** 1989 Nov;44(11):789-95 (45 ref.)
Causes of the urinary concentrating defect in mice with nephrogenic diabetes insipidus. Valtin H, et al. **Physiol Bohemoslov** 1990;39(1):103-11 (20 ref.)
[Anterio-hypophyseal function in central diabetes insipidus] Rampazzo A. **Medicina (Firenze)** 1989 Apr-Jun;9(2):196-8 (Eng. Abstr.) **(Ita)**
[The renin-angiotensin-aldosterone system in familial diabetes insipidus of central origin] Klin M, et al. **Pol Arch Med Wewn** 1987 Sep;78(3):173-7 (Eng. Abstr.) **(Pol)**

URINE

Interrelationship between urinary kallikrein and arginine-vasopressin in man. Yamada K, et al. **Adv Exp Med Biol** 1989;247A:621-7

VETERINARY

Idiopathic diabetes insipidus in a rhesus macaque. Port CD, et al. **Lab Anim Sci** 1990 Jan;40(1):84-6

DIABETES MELLITUS

see related

PREDIABETIC STATE

Scandinavian Society for the Study of Diabetes. 25th annual meeting, May 24-26, 1990, Odense. Abstracts. Damsgaard EM, et al. **Acta Endocrinol (Copenh)** 1990;122 Suppl 3:1-38
Diabetes and hypertension. Proceedings of a symposium. June 2, 1989, Detroit, Michigan. **Am J Med** 1989 Dec 8; 87(6A):1S-42S
American Diabetes Association, 50th annual meeting. June 16-19, 1990, Atlanta, Georgia. Abstracts. **Diabetes** 1990 May;39 Suppl 1:1A-312A
Hypoglycemia and employment/licensure. **Diabetes Care** 1990 May;13(5):535
Clinical practice recommendations. American Diabetes Association 1989-1990. **Diabetes Care** 1990 Jan;13 Suppl 1:1-65
Impact of computer simulation on diabetes research and practice [editorial] Bergman RN, et al. **Diabetes Care** 1989 Nov-Dec;12(10):748-9
Employment for people with diabetes in the United Kingdom. Robinson N. **Diabetes Care** 1990 May; 13(5):538-9
British Diabetic Association, Medical and Scientific Section, spring meeting. 22-24 March 1990, Glasgow. Abstracts. **Diabetic Med** 1990;7 Suppl 1:1A-41A
British Diabetic Association, Medical and Scientific Section, autumn meeting. 7-9 September 1989, Nottingham. Abstracts. **Diabetic Med** 1989;6 Suppl 2:1A-42A
Diabetes care and research in Europe: the Saint Vincent declaration. **Diabetic Med** 1990 May;7(4):360
Diabetes, the 1980s, and beyond [editorial] Home P. **Diabetic Med** 1990 Feb;7(2):97-8
EASD growing pains [letter] Jackson JG. **Diabetic Med** 1990 Jun;7(5):465
With the IDF into the 1990s: a European perspective [editorial] Jervell J. **Diabetic Med** 1990 May;7(4):283-4
Authoritarianism in diabetes [letter; comment] McLaren EH. **Diabetic Med** 1989 Dec;6(9):830-1 Comment on: Diabetic Med 1989 Aug;6(6):471.
The learning needs in diabetes of general practitioners. Marsden P, et al. **Diabetic Med** 1990 Jan;7(1):69-73
Who joins the BDA? Robinson N. **Diabetic Med** 1990 Mar-Apr;7(3):266-8
Employers' attitudes to diabetes [see comments] Robinson N, et al. **Diabetic Med** 1989 Nov;6(8):692-7 Comment in: Diabetic Med 1990 Mar-Apr;7(3):270-1.
Unemployment and diabetes. Robinson N, et al. **Diabetic Med** 1989 Dec;6(9):797-803
Employers' attitudes to diabetes [letter; comment] Waclawski ER. **Diabetic Med** 1990 Mar-Apr;7(3):270-1 Comment on: Diabetic Med 1989 Nov;6(8):692-7.
25th annual meeting of the European Association for the Study of Diabetes. Lisbon, Portugal, 20-23 September 1989. Abstracts. **Diabetologia** 1989 Jul;32(7):459A-560A
26th annual meeting of the European Association for the Study of Diabetes. Copenhagen, Denmark, 10-14 September 1990. Abstracts. **Diabetologia** 1990 Aug;33 Suppl:A11-230
Coexisting bacterial pyelonephritis and bilateral ureteral fungus balls in a diabetic patient. Case report. Mitchell KM. **J Fla Med Assoc** 1990 Jun;77(6):596-9
Use of indium-111-labeled white blood cells in the diagnosis of diabetic foot infections. Zeiger LS, et al. **J Foot Surg** 1990 Jan-Feb;29(1):46-51
Diabetes. **J Med Assoc Ga** 1989 Nov;78(11):735-79
Diabetes mellitus and periodontal disease in an Irish population. Hayden P, et al. **J Periodont Res** 1989 Sep; 24(5):298-302
Smoking habits of elderly diabetic patients. Banerjee AK. **J R Soc Health** 1989 Oct;109(5):171
Death and diabetes [letter] Phillips P, et al. **Med J Aust** 1990 Aug 6;153(3):173
Secondary school teacher awareness and knowledge of diabetes [letter] Wright E, et al. **Med J Aust** 1990 Aug 6;153(3):172-3
Quality of reporting in diabetes patient education research: 1954-1986. Brown SA. **Res Nurs Health** 1990 Feb; 13(1):53-62
[Follow-up of newly diagnosed patients with diabetes in the Prague population. II. Changes in the group of new diabetics after a 2-year follow-up] Perušičová J, et al. **Vnitr Lek** 1990 May;36(5):467-72 (Eng. Abstr.) **(Cze)**
[Diabetes mellitus] Rybka J. **Zdrav Aktual** 1985;207:1-321 **(Cze)**
[Diabetes mellitus] Svoboda Z. **Zdrav Aktual** 1983;204:146-9 **(Cze)**
[Abstracts of papers presented at a scientific meeting of the French Association for the Study of Diabetes and Metabolic Illnesses. 20-21 October 1989. Paris, France] **Diabete Metab** 1989 Sep-Oct;15(5):I-XXVI **(Fre)**
[Patient education for diabetics in the Hokkaido District] Shimizu N. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):411-4 **(Jpn)**
[Epidemiology: concepts and diagnosis of diabetes mellitus] Duarte RS. **Acta Med Port** 1989 Sep;Suppl 1:1S-4S (6 ref.) (Eng. Abstr.) **(Por)**
[Diabetes mellitus in the elderly] Oliveira M, et al. **Acta Med Port** 1989 Sep;Suppl 1:47S-50S (19 ref.) (Eng. Abstr.) **(Por)**
[Diabetes mellitus, a pending subject for endocrinologists] Figuerola D. **Med Clin (Barc)** 1989 Nov 4;93(14):548-55 (43 ref.) **(Spa)**
[Genetic and epidemiologic aspects in diabetes mellitus] Lasso de la Vega R. **Rev Med Panama** 1990 May; 15(2):88-95 (8 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Does ethanol intake interfere with the evaluation of glycated hemoglobins? Ben G, et al. **Acta Diabetol Lat** 1989 Oct-Dec;26(4):337-43
Insulin secretory reserve in diabetic Nigerian Africans. Bella AF, et al. **Afr J Med Med Sci** 1990 Mar;19(1):39-42

Gestational diabetes mellitus: the prevalence of glucose intolerance and diabetes mellitus in the first two months post partum. Kjos SL, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):93–8

Carbon paste–tetrathiafulvalene amperometric enzyme electrode forthe determination of glucose in flowing systems. Gunasingham H, et al. **Analyst** 1990 Jan; 115(1):35–9

Serum fructosamine determination as an index of glycaemic control: comparison between an automated and manual method, and the effect of serum storage. Ng WY, et al. **Ann Acad Med Singapore** 1989 Jul;18(4):352–6

How well do nurses perform blood glucose analyses at the diabetic clinic? An assessment using the Reflotron analyser. Smith LA, et al. **Ann Clin Biochem** 1989 Nov;26 (Pt 6):554–5

How well do nurses perform blood glucose analyses at the diabetic clinic? An assessment using the Reflotron analyser. Smith LA, et al. **Ann Clin Biochem** 1990 Mar;27 (Pt 2):156–7

Impact of glucose self–monitoring on glycohemoglobin values in a veteran population. Newman WP, et al. **Arch Intern Med** 1990 Jan;150(1):107–10

The influence of age, sex, smoking, and diabetes on lower limb transcutaneous oxygen tension in patients with arterial occlusive disease. Rooke TW, et al. **Arch Intern Med** 1990 Jan;150(1):129–32

Evidence for a relationship between protein glycation and red blood cell membrane fluidity. Birlouez–Aragon I, et al. **Biochem Biophys Res Commun** 1990 Aug 16; 170(3):1107–13

Development of a potentially wearable glucose sensor for patients with diabetes mellitus: design and in–vitro evaluation. Schoonen AJ, et al. **Biosens Bioelectron** 1990; 5(1):37–46

Interpreting laboratory results [letter; comment] Karnad DR. **BMJ** 1989 Aug 5;299(6695):392 Comment on: BMJ 1989 Jun 24;298(6689):1659–60.

Non–enzymatic glycosylation. Kennedy L, et al. **Br Med Bull** 1989 Jan;45(1):174–90 (51 ref.)

Platelet aggregation, platelet cAMP levels and thromboxane B2 synthesis in patients with diabetes mellitus. Chen SY, et al. **Chin Med J [Engl]** 1990 Apr;103(4):312–8

Tight blood glucose control: is it worth it? Hoogwerf BJ. **Cleve Clin J Med** 1990 Jun;57(4):390–5 (48 ref.)

Usefulness of the fructosamine measurement for monitoring diabetic patients [letter; comment] Dominiczak MH. **Clin Chem** 1990 Feb;36(2):412 Comment on: Clin Chem 1989 Jun;35(6):922–5.

Agarose gel electrophoresis with nitroblue tetrazolium coloration for determination of glycated lipoproteins in serum from diabetics. Kobayashi K, et al. **Clin Chem** 1990 Jan;36(1):65–9

Evaluation and performance characteristics of a novel ELISA using monoclonal antibody to glycated albumin. Hud E, et al. **Clin Chim Acta** 1989 Nov;185(2):157–64

A simple method for the measurement of total and glycated apolipoprotein B and its relevance to apolipoprotein–B metabolism in diabetes mellitus. Kortlandt W, et al. **Clin Chim Acta** 1989 Dec 29;186(1):109–17

A new hemoglobin variant found during investigations of diabetes mellitus: Hb Pavie [alpha 135 (H18) Val——Glu] Wajcman H, et al. **Clin Chim Acta** 1990 Apr 13;188(1):39–47

Effects of oral elastase on lipid metabolism, platelet function, and blood coagulability in patients with diabetes mellitus. Furui H, et al. **Clin Ther** 1989 Nov–Dec;11(6):786–94

Elevation of plasma thrombomodulin level in diabetic patients with early diabetic nephropathy. Iwashima Y, et al. **Diabetes** 1990 Aug;39(8):983–8

Erythrocyte membrane lipid peroxidation and glycosylated hemoglobin in diabetes. Jain SK, et al. **Diabetes** 1989 Dec; 38(12):1539–43

Acquired partial corticosterone methyl oxidase type II defect in diabetes mellitus. Case of hyperreninemic hypoaldosteronism. Braithwaite SS, et al. **Diabetes Care** 1990 Jul;13(7):790–2

Abnormal lipoprotein composition in normolipidemic diabetic patients. Iwai M, et al. **Diabetes Care** 1990 Jul; 13(7):792–6

Metabolic response to oral challenge of hydrogenated starch hydrolysate versus glucose in diabetes. Wheeler ML, et al. **Diabetes Care** 1990 Jul;13(7):733–40

Glycemic index of foods in individual subjects. Wolever TM, et al. **Diabetes Care** 1990 Feb;13(2):126–32

Pancreatic C–peptide response to oral glucose in fibrocalculous pancreatic diabetes. Improvement after treatment. Yajnik CS, et al. **Diabetes Care** 1990 May; 13(5):525–7

The haematocrit value in diabetic patients with ischaemic stroke. Emara MK, et al. **Diabetes Res** 1989 Dec; 12(4):189–92

The utility of glycated hemoglobin in identification of impaired glucose tolerance. Larsen ML. **Diabetes Res** 1989 Oct;12(2):67–70

Endogenous insulin secretion in newly diagnosed diabetic patients in Saudi Arabia. al–Attas OS, et al. **Diabetes Res Clin Pract** 1990 Jan;8(1):51–9

A comparison of fructosamine and glycosylated haemoglobin measurements at a diabetic clinic. Cockram CS, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):43–8

24–42 month stability of internal blood standards for glycated hemoglobin analysis. Duck SC, et al. **Diabetes Res Clin Pract** 1990 May–Jun;9(2):195–9

Plasma glucagon responses in tropical fibrocalculous pancreatic diabetes. Mohan V, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):97–101

The effect of aldose reductase inhibition on erythrocyte polyols and galactitol accumulation in diabetic patients. Airey CM, et al. **Diabetic Med** 1989 Dec;6(9):804–8

Isoform patterns of apolipoprotein E in diabetes mellitus. Black SC, et al. **Diabetic Med** 1990 Jul;7(6):532–9

The necessity of achieving good laboratory performance. Fraser CG. **Diabetic Med** 1990 Jul;7(6):490–3

Glycosylated haemoglobin revisited [editorial] Home P. **Diabetic Med** 1990 Jun;7(5):385–6

Blood rheology in diabetes mellitus. MacRury SM, et al. **Diabetic Med** 1990 May;7(4):285–91

Blood glycogen and metabolic control in diabetes mellitus. Segers O, et al. **Diabetic Med** 1990 Mar–Apr;7(3):207–10

The clinical and hormonal (C–peptide and glucagon) profile and liability to ketoacidosis during nutritional rehabilitation in Ethiopian patients with malnutrition–related diabetes mellitus. Abdulkadir J, et al. **Diabetologia** 1990 Apr; 33(4):222–7

Elevated plasma endothelin in patients with diabetes mellitus. Takahashi K, et al. **Diabetologia** 1990 May;33(5):306–10

Evidence for abnormal platelet glycoprotein expression in diabetes mellitus. Tschoepe D, et al. **Eur J Clin Invest** 1990 Apr;20(2):166–70

First report of HB Long Island–Marseille in Australia—a chance discovery. Boi S, et al. **Hemoglobin** 1989; 13(5):515–20

Multivariable analysis of serum 3,5,3'–L–triiodothyronine concentration in patients of diabetes mellitus by blood glucose level and body weight. Yagura T, et al. **Horm Metab Res** 1990 Apr;22(4):237–40

The serum fructosamine concentration in the evaluation of metabolic control of diabetes mellitus: a comparison with glycosylated hemoglobin. Campisi R, et al. **Ital J Biochem** 1990 May–Jun;39(3):201A–203A

Glycosylation of proteins: relevance to diabetes mellitus. Seshiah V, et al. **J Assoc Physicians India** 1989 Jun; 37(6):403–5 (40 ref.)

Glycosylated haemoglobin(HbA1C) and serum protein bound hexose in diabetes mellitus. Sharma SS, et al. **J Assoc Physicians India** 1989 Oct;37(10):639–41

High plasma prorenin in diabetes mellitus and its correlation with some complications. Franken AA, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):1008–15

Inpatient capillary glucose monitoring: a useful adjunct to the management of diabetes in community hospitals. Borst GC, et al. **J Ky Med Assoc** 1989 Sep;87(9):451–5

Contribution of 3–hydroxyisobutyrate to the measurement of 3–hydroxybutyrate in human plasma: comparison of enzymatic and gas–liquid chromatography–mass spectrometry assays in normal and in diabetic subjects. Avogaro A, et al. **J Lipid Res** 1989 Nov;30(11):1811–7

Erythrocyte sedimentation rate in diabetic patients: relationship to glycosylated hemoglobin and serum proteins. Elias AN, et al. **J Med** 1989;20(3–4):297–302

Correlation between high density lipoprotein cholesterol and C–peptide in sulfonylurea–treated diabetic patients. Migdalis IN, et al. **J Med** 1989;20(5–6):349–55

Evaluation of diabetic control by using hemoglobin A1 and fructosamine. Sridama V, et al. **J Med Assoc Thai** 1990 Mar;73(3):130–5

Risk of cross–infection through shared diabetic devices [letter] Shalit P, et al. **JAMA** 1990 Jan 5;263(1):34–5

Effect of anti–diabetic treatment on high density lipoprotein–composition and lecithin:cholesterol acyltransferase activity—a comparison between insulin, sulfonylurea and diet alone treatments. Iizuka T. **Jpn J Med** 1989 Jul–Aug;28(4):457–61

Erythrocyte deformability in diabetes and erythrocyte membrane lipid composition. Garnier M, et al. **Metabolism** 1990 Aug;39(8):794–8

Increased levels of acute–phase serum proteins in diabetes. McMillan DE. **Metabolism** 1989 Nov;38(11):1042–6

Correlation of plasma lipid fractions with colorimetrically determined glycated hemoglobin in a nondiabetic population. Prat J, et al. **Metabolism** 1989 Dec; 38(12):1147–53

A study of platelet fibronectin immunofluorescence in peripheral vascular disease and diabetes mellitus. Ejim OS, et al. **Microcirc Endothelium Lymphatics** 1989 Dec; 5(6):373–90

Biochemical changes in membrane related to rheological properties of diabetic erythrocytes. Kamada T, et al. **Monogr Atheroscler** 1990;15:198–208 (24 ref.)

Blood glucose testing strips—essential in general practice. Charlton R. **Practitioner** 1989 Sep 22;233(1475):1208

The effects of high dose inhaled beclomethasone dipropionate on glucose and lipid profiles in normal and diet controlled diabetic subjects. Ebden P, et al. **Respir Med** 1989 Jul; 83(4):289–91

C–peptide response to glucagon in young diabetics. Juang JH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun; 88(6):579–83

Erythrocyte deformability in diabetes mellitus. Wu TJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar;88(3):240–3

Is the imbalance between thrombin and plasmin activity in diabetes related to the behaviour of antiplasmin activity? Marongiu F, et al. **Thromb Res** 1990 Apr 15;58(2):91–9

Erythrocyte deformability in patients with an ischemic pathology. Vayá A, et al. **Thromb Res** 1990 Feb 15; 57(4):669–71

Agglutination of red blood cells from patients with diabetes mellitus by a polyclonal human antibody specific for D–glucose. Ellisor SS, et al. **Vox Sang** 1990;58(3):215–8

Effect of alcohol on serum lipids in diabetics. Ragoobirsingh D, et al. **West Indian Med J** 1989 Dec;38(4):205–8

[Diabetes and hemorheology] Attali JR, et al. **Diabete Metab** 1990 Jan–Feb;16(1):1–6 (36 ref.) (Eng. Abstr.) (Fre)

[Should the assay of fructosamine be part of the elements of diabetic monitoring?] Maugendre D, et al. **Diabete Metab** 1990 Jan–Feb;16(1):55–8 (24 ref.) (Fre)

[Critical evaluation of fructosamine as a control parameter in the assessing diabetic metabolic control (letter)] Windeler J. **Klin Wochenschr** 1989 Oct 17;67(20):1066–7 (Ger)

[Albumin or protein standardized fructosamine–plus, 2 new indices for evaluating diabetic metabolic status] Furrer J. **Wien Klin Wochenschr Suppl** 1990;180:85–93; discussion 95–7 (Eng. Abstr.) (Ger)

[The limits of fructosamine determination] Henrichs HR. **Wien Klin Wochenschr Suppl** 1990;180:94–5; discussion 95–7 (Ger)

[Fructosamine as a parameter for monitoring carbohydrate metabolism in the treatment of diabetes mellitus] Rotmann D, et al. **Wien Klin Wochenschr Suppl** 1990;180:69–71; discussion 78–81 (Eng. Abstr.) (Ger)

[Serum fructosamine assay in the evaluation and follow–up of diabetics] Shapiro MS, et al. **Harefuah** 1990 Apr 15; 118(8):447–9 (Eng. Abstr.) (Heb)

[Correlation of thrombocyte reactivity and serum levels of HbA1c, cholesterol and creatinine in diabetes mellitus] Tóth L, et al. **Orv Hetil** 1990 Feb 25;131(8):405–6, 409–10 (34 ref.) (Eng. Abstr.) (Hun)

[Application of the box plot to evaluate serum lipid levels and apolipoprotein levels in patients with cerebral infarction and diabetes mellitus] Konemori G, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):22–7 (Eng. Abstr.) (Jpn)

[Effect of biguanide derivatives (phenformin) on glucose tolerance in "borderline" and asymptomatic ("chemical") diabetes mellitus. Results of a 5–year prospective study] Kasperska–Czyżykowa T, et al. **Pol Arch Med Wewn** 1987 Nov;78(5):241–50 (Eng. Abstr.) (Pol)

[Post–fructose increase in the blood level of lactic acid in various pathologic conditions] Lao B, et al. **Pol Arch Med Wewn** 1987 Jun;77(6):283–90 (Eng. Abstr.) (Pol)

[Glycosylated hemoglobin (HbA1c) in blood in impaired tolerance to glucose and sugar diabetes] Korolev VA, et al. **Lab Delo** 1989;(7):23–5 (Eng. Abstr.) (Rus)

[Diabetes mellitus and the transport function of glycosylated and nonglycosylated albumin] Galenok VA, et al. **Ter Arkh** 1990;62(1):108–11 (54 ref.) (Rus)

[Isolation and various physico–chemical properties of diabetogenic factor from the blood of patients with diabetes] Kudriashov BA, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):63–6 (Eng. Abstr.) (Rus)

[The activity of cationic proteins, peroxidase and alkaline phosphatase in the blood neutrophils of diabetics] Podil'chak MD, et al. **Vrach Delo** 1989 Nov;(11):81–3 (Eng. Abstr.) (Rus)

[Erythrocytic changes in diabetes mellitus (a review of the literature)] Vydyborets SV. **Vrach Delo** 1990 Feb;(2):56–61 (76 ref.) (Rus)

[The role of the TRS–Glucotest apparatus in self–monitoring by patients with diabetes mellitus] Giljević Z, et al. **Lijec Vjesn** 1989 Sep–Oct;111(9–10):344–7 (Eng. Abstr.) (Scr)

CHEMICALLY INDUCED

Low–dose oral contraceptives and carbohydrate metabolism. Godsland IF, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 2):348–53 (55 ref.)

Oral contraceptives and diabetes mellitus [letter] [published erratum appears in BMJ 1990 Feb 10;300(6721):400] [comment] Wynn V, et al. **BMJ** 1990 Jan 20;300(6718):196 Comment on: BMJ 1989 Nov 25;299(6711):1315–6.

Effect of diuretic use on the development of diabetes mellitus. The Framingham study. Donahue RP, et al. **Horm Metab Res Suppl** 1990;22:46–8

Direct diabetogenic effect of diltiazem? Iversen E, et al. **J Intern Med** 1990 Apr;227(4):285–6

[Steroid diabetes: an analysis of 28 cases] Shi MZ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Mar;28(3):139–41, 185 (Eng. Abstr.) (Chi)

CLASSIFICATION

Definition and classification of diabetes. Laron Z. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S3–5

The glucagon–stimulated C–peptide test: an aid in classification of patients with diabetes mellitus. Vahlkamp T, et al. **Neth J Med** 1990 Apr;36(3–4):196–9

[Is diabetes mellitus, diagnosed between the ages of 30–45, a special sub–type?] Halmos T, et al. **Orv Hetil** 1990 Jan 7;131(1):11–4 (19 ref.) (Eng. Abstr.) (Hun)

COMPLICATIONS

Diabetes and coronary risk factors, relative risk for single factors and aggregation of more factors in a general population sample from northern Italy. Ambrosio GB, et

al. **Acta Diabetol Lat** 1990 Jan-Mar;27(1):31-9
Diabetes, fibrinogen, and risk of cardiovascular disease: the Framingham experience. Kannel WB, et al. **Am Heart J** 1990 Sep;120(3):672-6
Diabetic cardiomyopathy. Zarich SW, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1000-12 (84 ref.)
Gastrointestinal motility disorders in diabetes mellitus. Rothstein RD. **Am J Gastroenterol** 1990 Jul;85(7):782-5 (39 ref.)
Clinical implications of hypertension in the diabetic patient. Sowers JR, et al. **Am J Hypertens** 1990 May;3(5 Pt 1):415-24 (94 ref.)
Epidemiology of some peripheral arterial findings in diabetic men and women: experiences from the Framingham Study. Abbott RD, et al. **Am J Med** 1990 Apr;88(4):376-81
Myocardial disease in hypertensive-diabetic patients. Giles TD, et al. **Am J Med** 1989 Dec 8;87(6A):23S-28S (74 ref.)
Metabolic considerations in the approach to diabetic hypertensive patients. Zawada ET Jr. **Am J Med** 1989 Dec 8;87(6A):34S-38S (32 ref.)
Pregnancy in a patient with cystic fibrosis (mucoviscidosis) and diabetes mellitus. Plotz EJ, et al. **Am J Obstet Gynecol** 1967 Aug 15;98(8):1105-10
Prevention of amputation by diabetic education. Malone JM, et al. **Am J Surg** 1989 Dec;158(6):520-3; discussion 523-4
Value of radiographs and bone scans in determining the need for therapy in diabetic patients with foot ulcers. Shults DW, et al. **Am J Surg** 1989 Dec;158(6):525-9; discussion 529-30
Ulnar nerve damage following general anaesthetic. A case possibly related to diabetes mellitus. Jones HD. **Anaesthesia** 1967 Jul;22(3):471-5
Microalbuminuria in diabetes mellitus: review and recommendations for the measurement of albumin in urine. Rowe DJ, et al. **Ann Clin Biochem** 1990 Jul;27 (Pt 4):297-312 (151 ref.)
Effects of diltiazem or lisinopril on massive proteinuria associated with diabetes mellitus. Bakris GL. **Ann Intern Med** 1990 May 1;112(9):707-8
Topical clonidine and diabetic gastroparesis [letter] Sacerdote AS. **Ann Intern Med** 1990 May 15;112(10):796
Why should we treat hyperglycaemia? Pelkonen R. **Ann Med** 1990 Jun;22(3):207-9
Topical flurbiprofen in intraocular surgery on diabetic and nondiabetic patients. Tsuchisaka H, et al. **Ann Ophthalmol** 1990 Jan;22(1):15-9, 23
Low-intensity grids improve sensitivity of amsler grid testing in diabetic patients without background retinopathy. Wall M, et al. **Ann Ophthalmol** 1990 Mar;22(3):96-100
Cheiroarthropathy and long term diabetic complications in Nigerians. Akanji AO, et al. **Ann Rheum Dis** 1990 Jan; 49(1):28-30
Infants of diabetic mothers: a prospective study of neonatal complications in Harare, Zimbabwe. Rutherford MA, et al. **Ann Trop Paediatr** 1989 Dec;9(4):191-3
Diagnosis of pedal osteomyelitis in diabetic patients using current scintigraphic techniques. Keenan AM, et al. **Arch Intern Med** 1989 Oct;149(10):2262-6
Is the lung a 'target organ' in diabetes mellitus? Sandler M. **Arch Intern Med** 1990 Jul;150(7):1385-8 (42 ref.)
Cystometric evaluation of bladder dysfunction in elderly diabetic patients. Starer P, et al. **Arch Intern Med** 1990 Apr;150(4):810-3
Decreased penetration of anchoring fibrils into the diabetic stroma. A morphometric analysis. Azar DT, et al. **Arch Ophthalmol** 1989 Oct;107(10):1520-3
Retinal pigment epithelium tear in a diabetic patient with exudative retinal detachment following panretinal photocoagulation and filtration surgery. Lim JI, et al. **Arch Ophthalmol** 1990 Feb;108(2):173-4
Parental history of diabetes is associated with increased cardiovascular risk factors. Haffner SM, et al. **Arterioscler Thromb** 1989 Nov-Dec;9(6):928-33
Effects of plasmapheresis on familial type III hyperlipoproteinemia associated with glomerular lipidosis, nephrotic syndrome and diabetes mellitus. Suzaki K, et al. **Atherosclerosis** 1990 Jan;80(3):181-9
Changes in glycosylated proteins in long-term complications of diabetes mellitus. Rahman MA, et al. **Biomed Pharmacother** 1990;44(4):229-34
Prevalence of asymptomatic myocardial ischaemia in diabetic subjects. Koistinen MJ. **BMJ** 1990 Jul 14;301(6743):92-5
Virilizing nodular ovarian stromal hyperthecosis, diabetes mellitus and insulin resistance in a postmenopausal woman [letter; comment] Tuffnell DJ. **Br J Obstet Gynaecol** 1990 Jan;97(1):89 Comment on: Br J Obstet Gynaecol 1989 Sep;96(9):1095-8.
Hypertension, diabetes mellitus, and blood groups in benign prostatic hypertrophy. Bourke JB, et al. **Br J Urol** 1966 Feb;38(1):18-23
Diabetes, lipoprotein metabolism and atherosclerosis. Betteridge DJ. **Br Med Bull** 1989 Jan;45(1):285-311 (152 ref.)
Medical history and primary liver cancer. La Vecchia C, et al. **Cancer Res** 1990 Oct 1;50(19):6274-7
Congestive heart failure in women: focus on heart failure due to coronary artery disease and diabetes. Kimmelstiel C, et al. **Cardiology** 1990;77 Suppl 2:71-9 (27 ref.)
Diabetic heart disease--Part II: The clinical and pathological spectrum. van Hoeven KH, et al. **Clin Cardiol** 1989 Nov; 12(11):667-71 (109 ref.)
Diabetic heart disease: the clinical and pathological spectrum--Part I. van Hoeven KH, et al. **Clin Cardiol** 1989 Oct;12(10):600-4 (62 ref.)
Dipyridamole reduces urinary albumin excretion in diabetic patients with normo- or microalbuminuria. Aizawa T, et al. **Clin Nephrol** 1990 Mar;33(3):130-5
Use of metoclopramide, domperidone, and cisapride in the management of diabetic gastroparesis. Brown CK, et al. **Clin Pharm** 1990 May;9(5):357-65 (65 ref.)
Potential use of aldose reductase inhibitors to prevent diabetic complications. Zenon GJ 3d, et al. **Clin Pharm** 1990 Jun; 9(6):446-57 (77 ref.)
Functional reconstruction after ablative debridement for severe diabetic foot infection. Bauer GR. **Clin Podiatr Med Surg** 1990 Jul;7(3):509-21 (18 ref.)
The role of hyperbaric oxygen therapy in the treatment of diabetic foot ulcers and refractory osteomyelitis. Unger HD, et al. **Clin Podiatr Med Surg** 1990 Jul;7(3):483-92 (36 ref.)
Diabetes mellitus and rheumatic disease. Forgács SS. **Clin Rheum Dis** 1986 Dec;12(3):729-53 (125 ref.)
Monoarthritis of the ankle in diabetes mellitus without neuropathy: a report of three cases. Hall GM, et al. **Clin Rheumatol** 1990 Jun;9(2):225-8
Effects of bunazosin on plasma glucose levels in hypertensive diabetic patients. Takeda N, et al. **Clin Ther** 1989 Sep-Oct; 11(5):568-71
The association of essential hypertension and diabetes. Ferrannini E, et al. **Compr Ther** 1989 Nov;15(11):51-8 (30 ref.)
Diabetes and the kidney. 24th Workshop for Dialysis Physicians. March 10-12, 1988, Prien, Chiemsee. Proceedings. **Contrib Nephrol** 1989;73:1-228
Immunofluorescent characteristics of the diabetic cornea. Weiss JS, et al. **Cornea** 1990 Apr;9(2):131-8
The effect of acute changes in blood glucose on lenses in diabetic and non-diabetic subjects using quasi-elastic light scattering spectroscopy. Bursell SE, et al. **Curr Eye Res** 1989 Aug;8(8):821-34
Prevalence of cataracts in a population-based study of patients with diabetes mellitus. Peduzzi M, et al. **Dev Ophthalmol** 1989;17:75-8
The incidence of unknown diabetes mellitus and impaired glucose tolerance in idiopathic presenile cataract. al Samarrai AR, et al. **Dev Ophthalmol** 1989;17:79-81
Hypertension in diabetes mellitus: pathogenesis and clinical impact. Proceedings of an international symposium. Munich (Germany), May 3rd, 1989. **Diabete Metab** 1989; 15(5 Pt 2):273-366
Usefulness of biochemical screening of diabetic patients for hemochromatosis. O'Brien T, et al. **Diabetes Care** 1990 May;13(5):532-4
Hyperlipidemia in diabetes mellitus. Dunn FL. **Diabetes Metab Rev** 1990 Feb;6(1):47-61 (176 ref.)
Cardiovascular disease and hypertension in diabetes mellitus. Jarrett RJ. **Diabetes Metab Rev** 1989 Nov;5(7):547-58 (89 ref.)
Evidence for a specific heart disease of diabetes in humans. Fisher BM, et al. **Diabetic Med** 1990 Jul;7(6):478-89 (114 ref.)
Corn cures can damage your feet: an important lesson for diabetic patients. Foster A, et al. **Diabetic Med** 1989 Dec; 6(9):818-9
Management of plantar ulcers [letter] Ravina A. **Diabetic Med** 1990 Jun;7(5):465
Drug therapy for diabetic dyslipoproteinaemia: a practical approach. Winocour PH, et al. **Diabetic Med** 1990 May; 7(4):292-8 (65 ref.)
Papilloedema and diabetes mellitus [letter] Zeman A, et al. **Diabetic Med** 1990 Jun;7(5):465-6
Prognosis after stroke in diabetic patients. A controlled prospective study. Olsson T, et al. **Diabetologia** 1990 Apr; 33(4):244-9
Do angiotensin converting enzyme inhibitors represent a progress in hypertension care in diabetes mellitus? Sawicki PT, et al. **Diabetologia** 1990 Feb;33(2):121-4 (47 ref.)
Hypertension in the diabetic patient. Selection and optimum use of antihypertensive drugs. Trost BN. **Drugs** 1989 Oct; 38(4):621-33 (92 ref.)
Glossodynia as an oral manifestation of diabetes mellitus. Hatch CL. **Ear Nose Throat J** 1989 Oct;68(10):782-5 (19 ref.)
Dyslipoproteinemia and diabetes. Orchard TJ. **Endocrinol Metab Clin North Am** 1990 Jun;19(2):361-80 (125 ref.)
Dependent oedema and attenuation of postural vasoconstriction associated with nifedipine therapy for hypertension in diabetic patients. Williams SA, et al. **Eur J Clin Pharmacol** 1989;37(4):333-5
Topical sulindac therapy in diabetic senile cataracts: cataract-IV. Sharma YR, et al. **Indian J Ophthalmol** 1989 Jul-Sep;37(3):127-33
Perforating granuloma annulare and diabetes mellitus [letter] Jelinek JE. **Int J Dermatol** 1990 Jul-Aug;29(6):458
The transparency of the lens: a comparison between diabetic and non-diabetic patients. Franklin SL, et al. **Int Ophthalmol** 1990 Mar;14(2):73-6
Diabetic female with altered neurological status. McGhee RB Jr, et al. **Invest Radiol** 1990 Jan;25(1):82-4
Hypoglycemia and sepsis in two elderly diabetics [letter] Scheetz A. **J Am Geriatr Soc** 1990 Apr;38(4):492
A review of non-retinal ocular complications of diabetes mellitus. Cavallerano JD. **J Am Optom Assoc** 1990 Jul; 61(7):533-43 (96 ref.)
Management of diabetic plantar ulcers with a walking brace. A clinical trial. Black JR. **J Am Podiatr Med Assoc** 1990 Mar;80(3):156-7
Foot infections in patients with diabetes mellitus. Sapico FL. **J Am Podiatr Med Assoc** 1989 Oct;79(10):482-5
Diabetic heart [letter; comment] Mishra BK. **J Assoc Physicians India** 1989 Apr;37(4):296 Comment on: J Assoc Physicians India 1986 Sep;34(9):613-4.
Diabetic complete external ophthalmoplegia. Luco CF, et al. **J Clin Neuro Ophthalmol** 1990 Sep;10(3):206-9
Rapid periodontal destruction in adult humans with poorly controlled diabetes. A report of 2 cases. Ainamo J, et al. **J Clin Periodontol** 1990 Jan;17(1):22-8
Diabetic control and late complications: a never-ending story? Nyberg G. **J Diabetic Complications** 1989 Oct-Dec; 3(4):181-2 (20 ref.)
Hyperkalemia in diabetes mellitus. Uribarri J, et al. **J Diabetic Complications** 1990 Jan-Mar;4(1):3-7 (39 ref.)
Magnetic resonance imaging of the diabetic foot. Sartoris DJ, et al. **J Foot Surg** 1989 Sep-Oct;28(5):485-91
Lipoprotein disorders in diabetes mellitus. O'Neill WC. **J Med Assoc Ga** 1989 Nov;78(11):771-3 (0 ref.)
Hypertensive therapy for diabetic patients. Reed JW. **J Med Assoc Ga** 1989 Nov;78(11):769-70 (7 ref.)
Association of diabetes, lash loss, and Staphylococcus aureus with infestation of eyelids by Demodex folliculorum (Acari: Demodicidae). Clifford CW, et al. **J Med Entomol** 1990 Jul;27(4):467-70
Abnormal iron distribution in infants of diabetic mothers: spectrum and maternal antecedents. Georgieff MK, et al. **J Pediatr** 1990 Sep;117(3):455-61
Psychiatric disorders and diabetes--results from a community study. Weyerer S, et al. **J Psychosom Res** 1989;33(5):633-40
Diabetes mellitus and myasthenia gravis in a patient with systemic onset juvenile chronic arthritis. Jenkins EA, et al. **J R Soc Med** 1989 Jun;82(6):368-9
Diabetes mellitus, AIDS, and night sweats [letter] Silbert PL. **Lancet** 1989 Nov 25;2(8674):1285
The Rochester Coronary Heart Disease Project: effect of cigarette smoking, hypertension, diabetes, and steroidal estrogen use on coronary heart disease among 40- to 59-year-old women, 1960 through 1982 [see comments] Beard CM, et al. **Mayo Clin Proc** 1989 Dec;64(12):1471-80 Comment in: Mayo Clin Proc 1989 Dec;64(12):1553-7.
Oral hygiene and diabetes. Delawter DE. **Md Med J** 1990 May;39(5):487
Peripheral vascular disease in diabetes mellitus. DeLawter DE. **Md Med J** 1990 Mar;39(3):253-7
Diabetes and impotence. DeLawter DE. **Md Med J** 1990 Jul;39(7):683
Factors in sexual dysfunction in diabetic female volunteer subjects [see comments] Campbell LV, et al. **Med J Aust** 1989 Nov 20;151(10):550-2 Comment in: Med J Aust 1989 Nov 20;151(10):548-9.
Membranous glomerulonephritis in diabetic patients: a study of 15 cases and review of the literature. Yoshikawa Y, et al. **Mod Pathol** 1990 Jan;3(1):36-42 (37 ref.)
Actinomycotic intracavitary lung colonization. Severo LC, et al. **Mycopathologia** 1989 Oct;108(1):1-4
Open supramalleolar amputation of the infected foot: an underutilized, two-stage procedure [letter] Svoboda JJ, et al. **N Y State J Med** 1990 Feb;90(2):77-8
Diabetes as risk factor of cataract: differentiation by retroillumination photography and image analysis. Yata K, et al. **Ophthalmic Res** 1990;22 Suppl 1:78-80
Pars plana vitrectomy and posterior chamber intraocular lens implantation in diabetic patients [letter; comment] Mackool RJ. **Ophthalmology** 1989 Nov;96(11):1679-80 Comment on: Ophthalmology 1989 May;96(5):603-10.
Diabetes 2000--closing the gap [editorial] Smith RE, et al. **Ophthalmology** 1990 Feb;97(2):153-4
Association of systemic hypertension and diabetes mellitus with cataract extraction. A case-control study. Szmyd L Jr, et al. **Ophthalmology** 1989 Aug;96(8):1248-52
Management of the diabetic foot. Harrelson JM. **Orthop Clin North Am** 1989 Oct;20(4):605-19
Oral clindamycin and ciprofloxacin therapy for diabetic foot infections [retracted by Scheife RT. In: Pharmacotherapy 1990;10(4):261] Sesin GP, et al. **Pharmacotherapy** 1990; 10(2):154-6
Undetected diabetes and the plastic surgeon. Guyuron B, et al. **Plast Reconstr Surg** 1990 Sep;86(3):471-4
Increasing age, diabetes mellitus and recovery from stroke. Gray CS, et al. **Postgrad Med J** 1989 Oct;65(768):720-4
Factors influencing the outcome of treatment of foot lesions in Nigerian patients with diabetes mellitus. Akanji AO, et al. **Q J Med** 1989 Nov;73(271):1005-14 (24 ref.)
Diabetes mellitus, pulmonary tuberculosis and chronic calcific pancreatitis revisited. Mollentze WF, et al. **S Afr Med J** 1990 Sep 1;78(5):235-6
Hypertension in diabetes: effect of indapamide on glucose tolerance in diabetic hypertensive patients. Shaw KM. **S Afr Med J** 1989 Oct 7;Suppl:18-21
Pregestational diabetes. Meyer BA, et al. **Semin Perinatol** 1990 Feb;14(1):12-23 (60 ref.)
Sudden death from primary lung abscess in middle-aged diabetic men--two case reports. Lim TK, et al. **Singapore Med J** 1989 Feb;30(1):102-4
The diabetic foot: magnetic resonance imaging evaluation. Beltran J, et al. **Skeletal Radiol** 1990;19(1):37-41
Heart transplantation in patients with "so-called" contraindications. Anthuber M, et al. **Transplant Proc** 1990

Aug;22(4):1451–3

Heart transplantation in diabetic recipients. Ladowski JS, et al. **Transplantation** 1990 Feb;49(2):303–5

Syndrome of plasma cell dyscrasia, polyneuropathy, and diabetes mellitus. Davies ML, et al. **West J Med** 1990 Mar; 152(3):257–60 (43 ref.)

Risk factors of ischemic brain stroke in Korean diabetic patients—a retrospective study. Kim JS, et al. **Yonsei Med J** 1989 Sep;30(3):288–93

[Pulmonary tuberculosis and diabetes mellitus. A clinical analysis of 42 cases] Liu CY. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Oct; 12(5):288–9, 319 (Eng. Abstr.) (Chi)

[Risk factors for the formation of urinary calcium-containing stones in diabetics] Liu JG, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Nov;28(11):649–53, 699–700 (Eng. Abstr.) (Chi)

[The early phase of development of myocardial infarction in diabetics] Pausová Z, et al. **Cas Lek Cesk** 1990 Jun 29; 129(26):810–4 (Eng. Abstr.) (Cze)

[Changes in the heart in diabetes] Pogátsa G. **Cas Lek Cesk** 1989 Jul 21;128(30):929–32 (Eng. Abstr.) (Cze)

[Silent myocardial ischemia in diabetics] Zedníček L, et al. **Sb Lek** 1989 Nov;91(11–12):339–45 (Eng. Abstr.) (Cze)

[Diabetic osteopathies. 2. Findings on bones] Kocián J, et al. **Vnitr Lek** 1989 Jul;35(7):656–64 (Eng. Abstr.) (Cze)

[Diabetic osteopathies. 3. The effect of diabetic complications on bone mineralization] Kocián J, et al. **Vnitr Lek** 1989 Sep;35(9):890–8 (Eng. Abstr.) (Cze)

[Diabetic osteopathy. 4. Laboratory findings] Kocián J, et al. **Vnitr Lek** 1990 May;36(5):460–6 (Eng. Abstr.) (Cze)

[Diabetic osteopathies. 1. Etiologic factors and theoretical prerequisites for the development of bone demineralization in diabetics] Kocián J, et al. **Vnitr Lek** 1989 Jun;35(6):582–6 (Eng. Abstr.) (Cze)

[Smoking and diabetes mellitus] Christiansen E, et al. **Ugeskr Laeger** 1989 Nov 13;151(46):3050–3 (30 ref.) (Eng. Abstr.) (Dan)

[Diabetes in the pathogenesis of atherosclerosis—a background disturbance in lipid metabolism] Bierman EL. **Duodecim** 1989;105(17):1469–74 (31 ref.) (Fin)

[Long-term complications in diabetes mellitus] Assal JP, et al. **Acta Med Port** 1989 Sep;Suppl 1:33S–37S (20 ref.) (Eng. Abstr.) (Fre)

[Endocrine-metabolic reaction to anesthesia and surgery in the diabetic] Lugrin D, et al. **Ann Fr Anesth Reanim** 1989; 8 Suppl:R250 (Fre)

[The peroperative diabetic: comparison of two methods of giving i.v. insulin] Raucoules M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R249 (Fre)

[Roles of arterial hypertension and diabetes mellitus in early nephropathy] Wohlhuter C, et al. **Arch Mal Coeur** 1989 Jul;82(7):1195–8 (Eng. Abstr.) (Fre)

[Silent myocardial ischemia in diabetics. Detection—prognostic and therapeutic implications] Passa P, et al. **Diabete Metab** 1989 Jul–Aug;15(4):206–8 (17 ref.) (Fre)

[Silent myocardian ischemia in the diabetic: diagnostic problems] Valensi P, et al. **Diabete Metab** 1989 Jul–Aug; 15(4):204–5 (13 ref.) (Fre)

[Choroidal melanoma and suspected naevi in diabetics] Leys A. **J Fr Ophtalmol** 1989;12(12):915–7 (Eng. Abstr.) (Fre)

[Ocular electrophysiologic study of patients with a family history of diabetes] Malagola R, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):283–4 (Eng. Abstr.) (Fre)

[Heart involvement in diabetic patients] Grimaldi A, et al. **Presse Med** 1990 Mar 24;19(11):519–24 (27 ref.) (Eng. Abstr.) (Fre)

[Risk factors of diabetic Charcot's foot (letter)] Grimaldi A, et al. **Presse Med** 1990 Jun 2;19(22):1054 (Fre)

[Gastrointestinal complications of diabetes] Belaiche J, et al. **Rev Med Liege** 1989 Sep 15;44(18):533–40 (43 ref.) (Fre)

[The present state of knowledge on the problem of the relation between diabetes mellitus and breast cancer] Kopp S. **Arch Geschwulstforsch** 1989;59(5):367–73 (42 ref.) (Eng. Abstr.) (Ger)

[Visual status in diabetic maculopathy after central photocoagulation] Kieselbach G, et al. **Ophthalmologica** 1989;199(2–3):72–6 (Eng. Abstr.) (Ger)

[Antihypertensive therapy in patients with diabetes mellitus] Trost BN. **Ther Umsch** 1990 Jan;47(1):80–6 (27 ref.) (Eng. Abstr.) (Ger)

[Doppler sonographic criteria of reactive hyperemia in the diagnosis of peripheral arterial occlusive diseases in diabetes mellitus] Vogelberg KH. **Vasa** 1989;18(4):277–80 (Eng. Abstr.) (Ger)

[Diabetes mellitus as a risk factor in vascular surgery] Zan S, et al. **Minerva Cardioangiol** 1990 Mar;38(3):115–9 (Eng. Abstr.) (Ita)

[Study of esophageal motility in diabetic patients using the scintigraphic method] Innocenti R, et al. **Minerva Dietol Gastroenterol** 1990 Jan–Mar;36(1):9–12 (Eng. Abstr.) (Ita)

[Chronic prophylaxis of urinary tract infections in diabetic patients] Di Mauro M, et al. **Minerva Med** 1990 Jan–Feb; 81(1–2):69–74 (Eng. Abstr.) (Ita)

[The hypoglycemic reactions in diabetic patients in the emergency room. Which patients are going to be hospitalized?] Natangelo R, et al. **Minerva Med** 1990 Jul–Aug;81(7–8):561–5 (Eng. Abstr.) (Ita)

[Diabetic enteropathy] Ponte E, et al. **Minerva Med** 1990 May;81(5):335–40 (49 ref.) (Eng. Abstr.) (Ita)

[Periodontitis associated with systemic diseases with qualitative deficiency of phagocyte function. I. Diabetes mellitus] Nicolò M, et al. **Minerva Stomatol** 1989 Aug; 38(8):899–903 (35 ref.) (Eng. Abstr.) (Ita)

[Assessment of tolerability and antihypertensive efficacy of aceplus mite (captopril (CPT) 50 mg + hydrochlorothiazide (HCTZ) 15 mg): a double-blind study vs. HCTZ in diabetic hypertensive patients. A report on three treatments] Santucci A, et al. **Riv Eur Sci Med Farmacol** 1989 Apr;11(2):149–53 (Eng. Abstr.) (Ita)

[Relation of serum lipids disorders and ischemic heart disease in diabetics] Muto E. **Hokkaido Igaku Zasshi** 1989 Jul; 64(4):406–10 (Jpn)

[Pulmonary tuberculosis and diabetes mellitus—report of the 29th B series of controlled trials of chemotherapy. Cooperative Study Unit of Chemotherapy of Tuberculosis of National Sanatoria in Japan (CSUCTNS)] Hiro Y. **Kekkaku** 1989 Nov;64(11):699–705 (Eng. Abstr.) (Jpn)

[Treatment of hypertension complicated by diabetes mellitus and obesity] Kajiwara N. **Nippon Naika Gakkai Zasshi** 1990 Jan 10;79(1):54–9 (Jpn)

[Recent trend in the research of hyperlipidemia in Japan. Secondary hyperlipoproteinemia] Murase T. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1400–1 (Jpn)

[A case of glycogen storage disease complicated by diabetes mellitus] Tanigawa K, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):852–3 (Jpn)

[A case of insulin edema in diabetes mellitus] Tsuboi Y, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1475–9 (Jpn)

[Disorders of fluid and electrolyte metabolism in elderly diabetics] Ito H, et al. **Nippon Ronen Igakkai Zasshi** 1989 May;26(3):233–9 (Eng. Abstr.) (Jpn)

[Fluorescence excitation spectra of opacified lenses] Balter A. **Klin Oczna** 1988;90 Suppl:476–7 (Eng. Abstr.) (Pol)

[Intraocular lenses in patients with diabetes mellitus] Kałużný J, et al. **Klin Oczna** 1989 Jul–Sep;91(7–9):201–2 (Eng. Abstr.) (Pol)

[Specificity of drug therapy of hypertension in patients with diabetes mellitus] Tatoń J. **Pol Tyg Lek** 1988 Dec 19–26; 43(51–52):1661–7 (Pol)

[Cardiac complications of diabetes mellitus] Castedo JL. **Acta Med Port** 1989 Sep;Suppl 1:45S (11 ref.) (Por)

[Arterial hypertension in diabetes mellitus. Etiopathogenesis and treatment] Menezes I. **Acta Med Port** 1989 Sep;Suppl 1:43S–44S (23 ref.) (Eng. Abstr.) (Por)

[The diabetic foot] Pereira E. **Acta Med Port** 1989 Sep;Suppl 1:39S–42S (0 ref.) (Eng. Abstr.) (Por)

[Oxygen pressure of the capillary blood as an objective criterion for predicting the course of the wound process after surgery in patients with diabetes mellitus] Goriunov AI. **Klin Khir** 1990;(1):14–6 (Eng. Abstr.) (Rus)

[Radiotherapy of diabetic arthropathy of the feet] Ovsienko VA, et al. **Klin Khir** 1989;(12):53 (Rus)

[Surgical treatment of tuberculosis and nonspecific lung diseases associated with diabetes mellitus] Slepukha IM, et al. **Klin Khir** 1989;(10):38–40 (Eng. Abstr.) (Rus)

[The role of residual changes of the lungs after cured tuberculosis in severe somatic diseases] Biron MG. **Klin Med (Mosk)** 1989 Dec;67(12):56–61 (Eng. Abstr.) (Rus)

[Acute abscesses and gangrene of the lungs in patients with diabetes mellitus] Bykov VP, et al. **Klin Med (Mosk)** 1990 Jan;68(1):76–8 (Eng. Abstr.) (Rus)

[Acute abdominal syndromes in diabetes mellitus] Perederil VG, et al. **Klin Med (Mosk)** 1989 Aug;67(8):33–8 (51 ref.) (Rus)

[Intermittent polychemotherapy of patients with chronic destructive pulmonary tuberculosis with associated diabetes mellitus] Cheren'ko SA. **Probl Tuberk** 1989;(8):48–50 (Eng. Abstr.) (Rus)

[Surgical treatment of destructive pulmonary tuberculosis in adolescents with a severe form of diabetes mellitus] Naumov VN, et al. **Probl Tuberk** 1989;(7):36–8 (Eng. Abstr.) (Rus)

[Metastatic endophthalmitis in diabetes mellitus] Andrusenko AB, et al. **Sov Med** 1989;(9):112–3 (Rus)

[Microbiological characteristics of suppurative-necrotic foot diseases in diabetes mellitus] Daniliants EV, et al. **Sov Med** 1989;(11):80–1 (Rus)

[Characteristics of the course of scleroderma in diabetes mellitus] Khamaganova IV. **Sov Med** 1990;(2):72–6 (Rus)

[Method of prevention of postoperative eventration in diabetes mellitus] Kuleshov EV. **Sov Med** 1990;(5):91–4 (Rus)

[Diabetes mellitus and acute surgical diseases of the abdominal organs] Nartsissov TV, et al. **Sov Med** 1989; (9):49–52 (67 ref.) (Rus)

[Necrobiosis lipoidica and diabetes mellitus] Koliadenko VG, et al. **Vestn Dermatol Venerol** 1989;(8):19–24 (100 ref.) (Rus)

[Regional blood flow velocity as a prognostic factor in the treatment of suppurative and necrotic lesions of the foot in diabetes mellitus] Kuleshov EV, et al. **Vestn Khir** 1989 Jul;143(7):52–3 (Rus)

[Trans-scleral cryopexy in hemophthalmos of diabetic etiology] Katsnel'son LA, et al. **Vestn Oftalmol** 1990 May–Jun;106(3):19–21 (Eng. Abstr.) (Rus)

[Patterns in the development of polyneuropathies in diabetics (a review of the literature)] Genyk SN, et al. **Vrach Delo** 1990 May;(5):54–7 (42 ref.) (Rus)

[The Y-type drainage implant in surgery in neovascular glaucoma] Kuljača Z, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):649–53 (See)

[Changes in the eye in diabetes] Nikolić Lj, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):639–47 (See)

[Diabetes mellitus and pulmonary tuberculosis] Grujić M, et al. **Med Arh** 1988;42(3):125–8 (Scr)

[Complications of diabetes] Hadžiahmetović I. **Med Arh** 1987; 41(4):179–84 (Eng. Abstr.) (Scr)

[Captopril in the ambulatory treatment of arterial hypertension in diabetics] Jovanović D. **Med Arh** 1987; 41(5):257–64 (Eng. Abstr.) (Scr)

[Lipostabil forte in the control of hyperlipidemia in diabetics] Tomašević M, et al. **Med Arh** 1984;38(6):279–82 (Eng. Abstr.) (Scr)

[Changes in the hands and late complications in diabetes] Brozičević V, et al. **Reumatizam** 1988;35(1–6):33–8 (Eng. Abstr.) (Scr)

[Diabetic cardiomyopathy] Zachar A. **Bratisl Lek Listy** 1989 Nov;90(11):820–30 (52 ref.) (Eng. Abstr.) (Slo)

[The heart and diabetes mellitus] Lerman Garber I, et al. **Arch Inst Cardiol Mex** 1990 Jan–Feb;60(1):79–88 (84 ref.) (Eng. Abstr.) (Spa)

[Diabetic cheirarthropathy simulating sclerodermia] Asherson RA, et al. **Med Clin (Barc)** 1990 May 12; 94(18):702–3 (Eng. Abstr.) (Spa)

[Campylobacter bacteremia] Baykal M, et al. **Mikrobiyol Bul** 1989 Jan;23(1):30–4 (Eng. Abstr.) (Tur)

DIAGNOSIS

What is 75g of glucose? Wiener K. **Ann Clin Biochem** 1990 Jul;27 (Pt 4):283–4

Effectiveness of screening for diabetes. Gerken KL, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):201–3

The exercise test in diabetic patients as studied by radioelectrocardiography. Bellet S, et al. **Circulation** 1967 Aug;36(2):245–54

Simple enzymatic method for determining 1,5-anhydro-D-glucitol in plasma for diagnosis of diabetes mellitus. Yabuuchi M, et al. **Clin Chem** 1989 Oct; 35(10):2039–43

Evaluation of WHO and NDDG criteria for impaired glucose tolerance. Results from two national samples. Modan M, et al. **Diabetes** 1989 Dec;38(12):1630–5

Occurrence of diabetes mellitus after gestational diabetes mellitus in Trinidad. Ali Z, et al. **Diabetes Care** 1990 May; 13(5):527–9

Testing for blood glucose by office-based physicians in the U.S. Harris MI. **Diabetes Care** 1990 Apr;13(4):419–26

Is examination of fructosamine levels valuable as a diagnostic test for diabetes mellitus? Sekikawa A, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):187–92

The relative value of glycated albumin, hemoglobin A1c and fructosamine when screening for diabetes mellitus. Shima K, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):243–50

Fasting serum insulin concentration and early insulin response as risk determinants for developing diabetes. Lundgren H, et al. **Diabetic Med** 1990 Jun;7(5):407–13

The intraocular pressure and diabetes—a correlative study. Arora VK, et al. **Indian J Ophthalmol** 1989 Jan–Mar; 37(1):10–2

Protein glycation: measurement and clinical relevance. Schleicher E, et al. **J Clin Chem Clin Biochem** 1989 Sep; 27(9):577–87 (77 ref.)

The fructosamine assay in diagnosis and control of diabetes mellitus scientific evidence for its clinical usefulness? Windeler J, et al. **J Clin Chem Clin Biochem** 1990 Mar; 28(3):129–38

Fatal case of undiagnosed diabetes [news] Brahams D. **Lancet** 1990 Mar 17;335(8690):652

Death of a child from undiagnosed diabetes [news] Brahams D. **Lancet** 1990 Mar 10;335(8689):595–6

Diabetes mellitus misdiagnosed as AIDS [letter] Swai AB, et al. **Lancet** 1989 Oct 21;2(8669):976

Diabetes data—into the nineties [editorial] Glatthaar C. **Med J Aust** 1989 Oct 16;151(8):427–8

Determination of glycated hemoglobins of cadaveric blood: a study involving the use of affinity chromatography with m-amino phenyl boronic acid. Kuroda N. **Nippon Hoigaku Zasshi** 1990 Apr;44(2):115–25

Early diabetes detection? [letter] Massa DJ. **Ohio Med** 1990 May;86(5):339

[Evaluation of glycated hemoglobin in the early diagnosis of diabetes mellitus] Qiu WS. **Chung Hua Nei Ko Tsa Chih** 1989 Jul;28(7):407–9, 443–4 (Eng. Abstr.) (Chi)

[Glycosylated hemoglobin in the diagnosis of diabetes mellitus] Tian H, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):197–200 (Eng. Abstr.) (Chi)

[Follow-up of newly diagnosed patients with diabetes in the Prague population. I. Incidence of diabetes and disorders of glucose tolerance, methods of detection, complications] Perušičová J, et al. **Vnitr Lek** 1990 Mar;36(3):238–45 (Eng. Abstr.) (Cze)

[Tropical diabetes mellitus (letter)] Iser G, et al. **Dtsch Med Wochenschr** 1990 Aug 3;115(31–32):1214–5 (Ger)

[Fructosamine as a diagnostic parameter in the clinical routine] Oremek G, et al. **Wien Klin Wochenschr Suppl** 1990;180:74–8; discussion 78–81 (Eng. Abstr.) (Ger)

[A new fructosamine test—as a routine parameter in the control of diabetes] Willms B, et al. **Wien Klin Wochenschr Suppl** 1990;180:5–10 (11 ref.) (Eng. Abstr.) (Ger)

[Comparison of the results of the fructosamine test done by two unrelated laboratories] Krantz S, et al. **Z Med Lab Diagn** 1989;30(7):397–8 (Ger)

[New diagnostic tests for diabetes mellitus. Sorbitol] Hotta N, et al. **Nippon Rinsho** 1989 Nov;47(11):2477–82 (Jpn)

[Significance of ketone body analysis in clinical tests] Kosugi K, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:482–5 (Jpn)

[Diagnostic criteria and classification of diabetes mellitus] Kuzuya T. **Nippon Rinsho** 1989 Nov;47(11):2444–9 (Jpn)

[New diagnostic tests for diabetes mellitus. Transferrin in urine] Misaki M, et al. **Nippon Rinsho** 1989 Nov; 47(11):2505–9 (Jpn)

[New diagnostic tests for diabetes mellitus. Urinary albumin] Odagiri R. **Nippon Rinsho** 1989 Nov;47(11):2488–94 (Jpn)

[New diagnostic tests for diabetes mellitus. Hemoglobin A1 (A1c) and fructosamine] Okuda Y, et al. **Nippon Rinsho** 1989 Nov;47(11):2467–71 (Jpn)

[New diagnostic tests for diabetes mellitus. N-acetyl-beta-glucosaminidase] Yakata M, et al. **Nippon Rinsho** 1989 Nov;47(11):2483–7 (Jpn)

[New diagnostic tests for diabetes mellitus. 1,5-anhydroglucitol] Yamanouchi T, et al. **Nippon Rinsho** 1989 Nov;47(11):2472–6 (Jpn)

[New diagnostic tests for diabetes mellitus. Superoxide dismutase] Yanagawa A, et al. **Nippon Rinsho** 1989 Nov; 47(11):2501–4 (Jpn)

[Measurement of HbA1c as a method to diagnose diabetes mellitus in nursing home residents] Kuroki S, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):40–4 (Eng. Abstr.) (Jpn)

[Change in levels of specific terminal sugar residues of glycoproteins in sera of patients with complication of diabetes and liver injury] Nishida K, et al. **Rinsho Byori** 1990 Jul;38(7):835–7 (Eng. Abstr.) (Jpn)

[Diagnosis and treatment of diabetes mellitus–recent advances] Sugiyama S, et al. **Rinsho Byori** 1989 Aug; 37(8):883–91 (37 ref.) (Eng. Abstr.) (Jpn)

[A new diagnostic index of diabetes mellitus based on the 2-dimensional parameter of glucose kinetics] Dreval' AV. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):41–5 (Eng. Abstr.) (Rus)

[An automated work place for the diabetologist (the problems of monitoring diabetic patients)] Mazovetskii AG, et al. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):55–7 (Rus)

[Disordered glucose tolerance in diffuse toxic goiter] Pavliuk PM. **Probl Endokrinol (Mosk)** 1990 Mar–Apr;36(2):17–21 (Eng. Abstr.) (Rus)

[Insulinoma in a female diabetic] Tachkova OA, et al. **Ter Arkh** 1989;61(11):133–4 (Rus)

DIET THERAPY

High-dose dietary myo-inositol supplementation does not alter the ischaemia phenomenon in human diabetics. Arendrup K, et al. **Acta Neurol Scand** 1989 Aug; 80(2):99–102

Fibre in the management of diabetes. 1. Natural fibre useful as part of total dietary prescription. Hockaday TD. **BMJ** 1990 May 19;300(6735):1334–6 (37 ref.)

Fibre in the management of diabetes. 2. Benefits of fibre itself are uncertain. Tattersall R, et al. **BMJ** 1990 May 19; 300(6735):1336–7 (19 ref.)

Fibre in the management of diabetes [letter] Uusitupa MI. **BMJ** 1990 Jul 14;301(6743):122

Acceptance and consumption of crystalline fructose menu items by institutionalized elderly persons. Endres J, et al. **J Am Diet Assoc** 1990 Mar;90(3):431–3

High fibre diet–methi seeds—in diabetes mellitus [letter; comment] Bhatia RS. **J Assoc Physicians India** 1989 May; 37(5):347 Comment on: J Assoc Physicians India 1987 May;35(5):353–5.

Role of dietary fibre on platelet adhesiveness. Khan HS, et al. **J Assoc Physicians India** 1990 Mar;38(3):219–20

High-fiber diet for diabetes. Safe and effective treatment. Anderson JW, et al. **Postgrad Med** 1990 Aug;88(2):157–61, 164, 167–8 (20 ref.)

Food exchange list based on 80-kilocalorie rice unit. Hung CT. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun;88(6):595–600

[Diet and diabetes mellitus, the relieve] Erkelens DW. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):270–4 (39 ref.) (Dut)

[Outline of daily instructions for diabetic patients] Takasugi Y. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):382–6 (Jpn)

[The application of the glycemic index to the treatment of diabetes mellitus in the elderly] Goriya Y, et al. **Nippon Ronen Igakkai Zasshi** 1990 Jan;27(1):57–62 (Eng. Abstr.) (Jpn)

[Clinical and metabolic aspects of using dietary fibers] Dubinin AV, et al. **Klin Med (Mosk)** 1990 Jan;68(1):15–21 (16 ref.) (Rus)

[Unified dietary recommendations for prevention and treatment of common diseases] Vessby B. **Lakartidningen** 1989 Sep 6;86(36):2939–41 (Swe)

DRUG THERAPY

Effects of insulin on vasoconstrictor responses to alpha agonist and tilting. Yamamoto M, et al. **Angiology** 1990 May;41(5):394–400

Glucose sensors in a control circuit: a modeling study. Biermann E. **Biomed Biochim Acta** 1989;48(11–12):857–66

Artemisia herba-alba Asso. in diabetes mellitus [letter] al-Waili NS. **Clin Exp Pharmacol Physiol** 1988 Jun; 15(6):497

Microbiology and antimicrobial therapy of diabetic foot infections. Joseph WS, et al. **Clin Podiatr Med Surg** 1990 Jul;7(3):467–81 (76 ref.)

Pharmacokinetics of insulin and oral antidiabetic drugs in renal insufficiency. Hasselblatt A. **Contrib Nephrol** 1989; 73:139–45; discussion 146 (39 ref.)

Blood or urine glucose-based insulin therapy and control of glycemia. Computer-simulation study. Albisser AM, et al. **Diabetes Care** 1990 Apr;13(4):393–400

Inhibition of sleep-induced growth hormone secretion: no effect on diabetic control [letter] Davidson MB, et al. **Diabetes Care** 1990 Jul;13(7):813–4

Carriage of Staphylococcus aureus and local infections in diabetic outpatients treated with insulin pen [letter] Mey A, et al. **Diabetes Care** 1990 Apr;13(4):451–2

Influence of the degree of control of diabetes on the prevention, postponement and amelioration of late complications. Zimmerman BR. **Drugs** 1989 Dec; 38(6):941–56 (60 ref.)

A case for oral insulin therapy in the prevention of diabetic micro- and macroangiopathy. Gwinup G, et al. **Int J Artif Organs** 1990 Jul;13(7):393–5 (26 ref.)

Insulin therapy of diabetes with implantable infusion pumps: clinical aspects. Selam JL. **Int J Artif Organs** 1990 May; 13(5):261–6 (30 ref.)

Rapid control of diabetes mellitus [letter] Katyal VK. **J Assoc Physicians India** 1990 Mar;38(3):245

Hypertension and micro-albuminuria in diabetic patients taking indapamide. Janka HU, et al. **J Hypertens Suppl** 1989 Dec;7(6):S316–7

Effectiveness of insulin suppositories in diabetic patients. Nishihata T, et al. **J Pharm Pharmacol** 1989 Nov; 41(11):799–801

Insulin injections: rotation of anatomic regions and plasma glucose [letter] Bernstein RK. **JAMA** 1990 Sep 26; 264(12):1535–6

Hypoglycaemia as cause of death in human insulin era [letter] Stephenson J, et al. **Lancet** 1990 Mar 17;335(8690):661

Why was my insulin changed? [letter] DeLawter D. **Md Med J** 1989 Nov;38(11):961

The physiologic replacement of insulin [letter; comment] Gwinup G, et al. **N Engl J Med** 1990 Feb 1;322(5):333–4 Comment on: N Engl J Med 1989 Aug 10;321(6):363–70.

Effect of estrogen administration on diabetic KK mice. Arai T, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):823–6

Therapeutic aspects of hyperlipidaemia in diabetes. Durrington PN, et al. **Postgrad Med J** 1989;65 Suppl 1:S33–41 (79 ref.)

Treatment of hypertension in diabetic patients. Passa P, et al. **Postgrad Med J** 1989;65 Suppl 1:S42–5 (21 ref.)

Poorly controlled diabetes in the elderly. Ben-Noun L. **Practitioner** 1989 Jan;233(1461):14, 16

Cellulitis caused by Rhizomucor pusillus in a diabetic patient receiving continuous insulin infusion pump therapy. Wickline CL, et al. **South Med J** 1989 Nov;82(11):1432–4

[A consulting system for insulin therapy in diabetes] Hovorka R, et al. **Cas Lek Cesk** 1990 Apr 6;129(14):417–23 (Eng. Abstr.) (Cze)

[Insulin: from 40 to 100 units per milliliter] Doorenbos H. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2076–7 (Dut)

[Indications and monitoring of insulin pumps at the Hospital Center in Mans] Rouxel E, et al. **Bull Soc Ophtalmol Fr** 1989 Nov;89(11):1307–14 (Fre)

[Hyperinsulinemia and/or hyperglycemia in insulin-treated diabetic patients? Choice of relative risks] Tchobroutsky G. **Journ Annu Diabetol Hotel Dieu** 1990;:211–22 (36 ref.) (Fre)

[Alpha-glucosidase inhibitors: a new therapeutic approach in diabetes and functional hypoglycemia] Brogard JM, et al. **Rev Med Interne** 1989 Jul–Aug;10(4):365–74 (75 ref.) (Eng. Abstr.) (Fre)

[Home self-control of child and adolescent diabetics] Chiarelli F, et al. **Riv Eur Sci Med Farmacol** 1989 Aug; 11(4):321–7 (Eng. Abstr.) (Fre)

[Insulin therapy. Possibilities and limits] Fellhauer M. **Med Monatsschr Pharm** 1990 Jul;13(7):216–8 (Ger)

[Current technics in the improvement of insulin treatment] Spinas GA, et al. **Ther Umsch** 1989 Oct;46(10):715–21 (9 ref.) (Eng. Abstr.) (Ger)

[Effect of antidiabetic treatment in ischemic heart diseases] Pogätsa G, et al. **Orv Hetil** 1990 Jan 21;131(3):119–26 (40 ref.) (Eng. Abstr.) (Hun)

[Continuous subcutaneous insulin infusion] Iwaoka H, et al. **Nippon Rinsho** 1989 Nov;47(11):2577–82 (Jpn)

[Artificial endocrine pancreas] Kageyama S, et al. **Nippon Rinsho** 1989 Nov;47(11):2583–8 (Jpn)

[Do we lack information on new insulin and hypoglycemia? (letter)] Jervell J. **Tidsskr Nor Laegeforen** 1990 Mar 20; 110(8):996–7 (Nor)

[Therapeutic problems of patients with diabetes mellitus after total pancreatectomy] Bąk M. **Pol Arch Med Wewn** 1989 Mar;81(3):137–43 (Eng. Abstr.) (Pol)

[Biguanides in the treatment of diabetes mellitus] Saraiva AM. **Acta Med Port** 1989 Sep;Suppl 1:15S–18S (20 ref.) (Eng. Abstr.) (Por)

[The efficacy of using single-component insulin preparations in diabetes mellitus and generalized lipodystrophy] Gorelysheva VA, et al. **Probl Endokrinol (Mosk)** 1990 Mar–Apr;36(2):52–5 (Rus)

[Biotechnological methods in the treatment of diabetes mellitus] Dedov II. **Sov Med** 1989;(9):82–4 (Rus)

[Physical work capacity in diabetes mellitus under treatment] Kolomoĭskaia MB, et al. **Sov Med** 1989;(7):115–7 (Rus)

[Personal experience in the therapy of diabetes mellitus] Hadžiahmetović I, et al. **Med Arh** 1989;43(4–6):235–41 (Eng. Abstr.) (Scr)

[Multicenter study of the therapeutic efficiency of glycvidone (Beglynor)] Lepšanović L, et al. **Med Pregl** 1989; 42(11–12):434–7 (Eng. Abstr.) (Scr)

[Pharmacologic consumption and medical care for diabetics in Tarragona (letter)] Sans Mallafré JM. **Med Clin (Barc)** 1989 Sep 23;93(8):315–6 (Spa)

ECONOMICS

Third-party reimbursement for outpatient diabetes education and counseling. **Diabetes Care** 1990 Jan;13 Suppl 1:36

Diabetes care and the White Paper—will it work for patients? [editorial] Keen H, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):210–1

Health services and costing in diabetes [editorial] Songer TJ. **Med J Aust** 1990 Feb 5;152(3):115–7

ENZYMOLOGY

Plasma trehalase activity and diabetes mellitus. Eze LC. **Biochem Genet** 1989 Oct;27(9–10):487–95

Properties of phosphatidate phosphohydrolase and diacylglycerol acyltransferase activities in the isolated rat heart. Effect of glucagon, ischaemia and diabetes. Schoonderwoerd K, et al. **Biochem J** 1990 Jun 1; 268(2):487–92

Serum beta-glycosidases in diabetes mellitus. Rao GM, et al. **Clin Physiol Biochem** 1989;7(3–4):161–4

Serum glutamic oxaloacetic transaminase (GOT) and glutamic pyruvic transaminase (GPT) levels in diabetes mellitus. Rao GM, et al. **Indian J Med Sci** 1989 May; 43(5):118–21

[Clinical significance of urinary enzymes in diabetes mellitus] Morita E, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1; 12(2):197–205 (Eng. Abstr.) (Jpn)

EPIDEMIOLOGY

Diabetes mellitus and other cardiovascular risk factors in an elderly population. Maggi S, et al. **Age Ageing** 1990 May; 19(3):173–8

Impact of cardiovascular risk factors on coronary heart disease and mortality among middle aged diabetic men: a general population study. Rosengren A, et al. **BMJ** 1989 Nov 4;299(6708):1127–31

Diabetes in tropical Africa: a prospective study, 1981–7. I. Characteristics of newly presenting patients in Dar es Salaam, Tanzania, 1981–7. Swai AB, et al. **BMJ** 1990 Apr 28;300(6732):1103–6

Determinants of plasma glucose level and diabetic status in a northern Canadian Indian population. Young TK, et al. **Can Med Assoc J** 1990 Apr 15;142(8):821–30

Estimation of the prevalence of diabetes mellitus in Israel based on hypoglycemic drug supply and consumption. Cohen R, et al. **Diabete Metab** 1990 Mar–Apr;16(2):59–63

Diabetes mellitus in the Pima Indians: incidence, risk factors and pathogenesis. Knowler WC, et al. **Diabetes Metab Rev** 1990 Feb;6(1):1–27 (149 ref.)

Re: The Eluru survey [letter; comment] Kodali VR, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):287–8 Comment on: Diabetes Res Clin Pract 1989 Jun 20;7(1):29–31.

Diabetes and impaired glucose tolerance in an Asian community in Tanzania. Swai AB, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):227–34

Seasonal incidence of diabetes mellitus in tropical Africa. McLarty DG, et al. **Diabetic Med** 1989 Dec;6(9):762–5

Diabetes mellitus in Mali (West Africa) [letter] Imperato PJ. **Diabetologia** 1989 Jul;32(7):449

The challenge of childhood diabetes mellitus in India. Verma IC. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S33–8

Prevalence of diabetes mellitus and of associated risk factors for atherosclerosis in a randomized population sample of western Sicily. Casteldaccia study. Avellone G, et al. **Int Angiol** 1989 Apr–Jun;8(2):97–101

A longitudinal study of impaired glucose tolerance and diabetes mellitus in the aged. Grobin W. **J Am Geriatr Soc** 1989 Dec;37(12):1127–34

Diabetes mellitus in north Sweden: prevalence assessed from prescriptions for anti-diabetic agents. Forrest RD. **J Intern Med** 1990 Sep;228(3):267–73

Current perspectives on the prevalence and pathogenesis of diabetes mellitus. Gebhart SS. **J Med Assoc Ga** 1989 Nov; 78(11):745–7 (4 ref.)

Correlation of waist to hips ratio to the prevalence of diabetes and hypertension in black females. Svec F, et al. **J Natl Med Assoc** 1990 Apr;82(4):257–61

Birmingham diabetes survey [letter] Crombie DL. **J R Coll Gen Pract** 1989 Aug;39(325):350

Characteristics and pattern of care of a diabetic population in mid-Wales. Gibbins RL, et al. **J R Coll Gen Pract** 1989

May;39(322):206–8
Malnutrition–related diabetes mellitus in young adult diabetic patients attending a Nigerian diabetic clinic. Akanji AO. **J Trop Med Hyg** 1990 Feb;93(1):35–8
Suitability of reflectometry in epidemiology of diabetes mellitus in Africans [letter] Fisch A, et al. **Lancet** 1990 Mar 17;335(8690):661–2
Prevalence of cardiovascular disease and diabetes mellitus in residents of Rochester, Minnesota. Phillips SJ, et al. **Mayo Clin Proc** 1990 Mar;65(3):344–59
Selection of subjects in community studies [letter] Van Buren CT. **Mayo Clin Proc** 1990 Jul;65(7):1030
Tribal differences in diabetes: prevalence among American Indians in New Mexico. Carter J, et al. **Public Health Rep** 1989 Nov–Dec;104(6):665–9
Prevalence of diabetes mellitus in a Nigerian population. Erasmus RT, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):417–8
Pattern of diabetes mellitus in the Sudan. el Mahdi EM, et al. **Trop Geogr Med** 1989 Oct;41(4):353–7
[The incidence and nature of diabetes mellitus in patients with bronchial asthma] Mileva Zh, et al. **Vutr Boles** 1989; 28(4):67–70 **(Bul)**
[Prognosis for insulin requirements in Czechoslovakia] Hauser F, et al. **Cas Lek Cesk** 1989 Oct 27; 128(43–44):1345–9 (Eng. Abstr.) **(Cze)**
[Aspects of diabetes mellitus in Central Viêt Nam (letter)] Le Van Bach, et al. **Ann Med Interne (Paris)** 1990; 141(3):278–9 **(Fre)**
[Geography of diabetes (1960–1970–1980)] Soulairol RM. **Cah Sociol Demogr Med** 1990 Jan–Mar;30(1):85–123 (Eng. Abstr.) **(Fre)**
[Prevalence of diabetes mellitus in Lebanon] Hirbli KI, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:277–84 **(Fre)**
[The prevalence of diabetes mellitus in the northeastern region of Bosnia] Hadžiahmetović I. **Med Arh** 1987; 41(5):241–6 (Eng. Abstr.) **(Scr)**

ETHNOLOGY

Black–white differences in stroke incidence in a national sample. The contribution of hypertension and diabetes mellitus. Kittner SJ, et al. **JAMA** 1990 Sep 12; 264(10):1267–70

ETIOLOGY

Reversible hepatomegaly and diabetes mellitus in an adult with disseminated histiocytosis X. Trochtenberg DS, et al. **Am J Med Sci** 1990 Mar;299(3):179–84
Evidence of the role of psychosocial factors in diabetes mellitus: a review. Helz JW, et al. **Am J Psychiatry** 1990 Oct;147(10):1275–82 (77 ref.)
Fatal central diabetes mellitus and insipidus resulting from untreated hyponatremia: a new syndrome [see comments] Fraser CL, et al. **Ann Intern Med** 1990 Jan 15;112(2):113–9 Comment in: Ann Intern Med 1990 Apr 15;112(8):632–3. Comment in: Ann Intern Med 1990 May 1;112(9):716–7. Comment in: Ann Intern Med 1990 Jul 1;113(1):84–6.
Risk factors for diabetes among northern Indians. Young TK, et al. **Arctic Med Res** 1988;47 Suppl 1:445–8
Polymorphism in the 5'-flanking region of the insulin gene and its potential relation to cardiovascular disease risk: observations in a biracial community. The Bogalusa Heart Study. Amos CI, et al. **Atherosclerosis** 1989 Sep;79(1):51–7
Coffee consumption as trigger for diabetes in childhood [letter; comment] **BMJ** 1990 Apr 14;300(6730):1012 Comment on: BMJ 1990 Mar 10;300(6725):642–3.
Oral contraceptives and diabetes mellitus [see comments] Hannaford PC, et al. **BMJ** 1989 Nov 25;299(6711):1315–6 Comment in: BMJ 1990 Jan 20;300(6718):196.
Effects of long–term antihypertensive treatment on glucose metabolism. Lithell H, et al. **Diabete Metab** 1989;15(5 Pt 2):359–61
Inheritance of diabetes mellitus as consequence of gestational hyperglycemia in rats. Gauguier D, et al. **Diabetes** 1990 Jun;39(6):734–9
Pancreatic diabetes mellitus. Sjoberg RJ, et al. **Diabetes Care** 1989 Nov–Dec;12(10):715–24 (77 ref.)
Fibrocalculous pancreatic diabetes and obesity. Mohan V, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):161–6
Adiposity and adipose tissue distribution in relation to incidence of diabetes in women: results from a prospective population study in Gothenburg, Sweden. Lundgren H, et al. **Int J Obes** 1989;13(4):413–23
Fibrocalculous pancreatic diabetes in the elderly. Mohan V, et al. **J Assoc Physicians India** 1989 May;37(5):342–4
A case of secondary diabetes mellitus. Rummel TS. **J Tenn Med Assoc** 1989 Nov;82(11):600
Endocrine and metabolic abnormalities following kidney transplantation. Hörl WH, et al. **Klin Wochenschr** 1989 Sep 1;67(17):907–18 (148 ref.)
Role of somatostatin and its analogues in the pathogenesis and treatment of diabetes mellitus. Gerich JE. **Metabolism** 1990 Sep;39(9 Suppl 2):52–4 (43 ref.)
Glucose counterregulation in diabetes secondary to chronic pancreatitis. Larsen S, et al. **Metabolism** 1990 Feb; 39(2):138–43
Cyclosporine, combination immunosuppression, and posttransplant diabetes mellitus. Boudreaux JP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1811–3
Genetic and nutritional factors in the etiology and pathogenesis of diabetes mellitus. Köbberling J, et al. **World Rev Nutr Diet** 1990;63:102–15 (60 ref.)
[A case of type 1 lepra reaction accompanied by secondary diabetes mellitus and hypothyroidism] Ishida Y, et al. **Nippon Rai Gakkai Zasshi** 1988 Oct–Dec;57(4):199–204 (Eng. Abstr.) **(Jpn)**
[Secondary diabetes] Kuzuya H. **Nippon Rinsho** 1989 Nov; 47(11):2569–76 **(Jpn)**
[Symptomatic diabetes mellitus in patients with chronic recurrent pancreatitis] Geller LI, et al. **Klin Med (Mosk)** 1989 Aug;67(8):83–6 (Eng. Abstr.) **(Rus)**
[Vitamin C and diabetes mellitus] Spirichev VB, et al. **Klin Med (Mosk)** 1990 Feb;68(2):24–30 (44 ref.) **(Rus)**
[Actual problems of diabetes mellitus] Balabolkin MI. **Sov Med** 1989;(11):3–7 **(Rus)**
[Exocrine and endocrine pancreatic disorders in chronic pancreatitis] Geller LI, et al. **Sov Med** 1989;(8):4–7 (Eng. Abstr.) **(Rus)**
[Natural diabetogenic factor] Kudriashov BA. **Sov Med** 1989; (7):51–4 (35 ref.) **(Rus)**

GENETICS

Recessive inheritance of a high number of sodium pump sites. Hasstedt SJ, et al. **Am J Med Genet** 1989 Nov;34(3):332–7
Genes and diabetes mellitus. Hitman GA, et al. **Br Med Bull** 1989 Jan;45(1):191–205 (59 ref.)
A study on the types of diabetes mellitus in first degree relatives of diabetic patients. Cheţa D, et al. **Diabete Metab** 1990 Jan–Feb;16(1):11–5
Immunodeficiency as primary phenotype of diabetes mutation db. Studies with coxsackievirus B4. Montgomery LB, et al. **Diabetes** 1990 Jun;39(6):675–82
Diabetes mellitus and molecular biology. An international symposium. San Antonio, Texas, 24–27 September 1989. Proceedings. **Diabetes Care** 1990 Mar;13(3):187–374
Molecular biology of mammalian glucose transporters. Bell GI, et al. **Diabetes Care** 1990 Mar;13(3):198–208 (55 ref.)
Molecular biology for nonmolecular biologists. Chirgwin JM. **Diabetes Care** 1990 Mar;13(3):188–97 (14 ref.)
Accuracy of reported family history of diabetes mellitus. Results from San Luis Valley Diabetes Study. Kahn LB, et al. **Diabetes Care** 1990 Jul;13(7):796–8
Insulin gene in diabetes. Analysis through RFLP. Permutt MA, et al. **Diabetes Care** 1990 Mar;13(3):364–74 (77 ref.)
TNF–alpha gene polymorphisms in type 1 (insulin–dependent) diabetes mellitus. Badenhoop K, et al. **Diabetologia** 1989 Jul;32(7):445–8
A mutation in the insulin receptor gene that impairs transport of the receptor to the plasma membrane and causes insulin–resistant diabetes. Accili D, et al. **EMBO J** 1989 Sep;8(9):2509–17
Familial type C syndrome of insulin resistance and short stature with possible autosomal dominant transmission. Nakamura F, et al. **Endocrinol Jpn** 1989 Jun;36(3):349–58
Enzyme polymorphism and clinical variability of diseases: a study of diabetes mellitus. Gloria–Bottini F, et al. **Hum Biol** 1989 Aug;61(4):571–89
Relationship between bleeding/plaque ratio, family history of diabetes mellitus and impaired glucose tolerance. Sastrowijoto SH, et al. **J Clin Periodontol** 1990 Jan; 17(1):55–60
Prevalence of genetic haemochromatosis in diabetic patients [letter; comment] **Lancet** 1989 Oct 14;2(8668):925 Comment on: Lancet 1989 Jul 29;2(8657):233–4.
Insulin–resistant diabetes associated with partial deletion of insulin–receptor gene. Shimada F, et al. **Lancet** 1990 May 19;335(8699):1179–81
An interesting syndrome of hemolytic anemia, degeneration of the liver and diabetes associated with a high red cell Mg–ATPase, detected by 31P NMR spectroscopy. Kagimoto T, et al. **NMR Biomed** 1989 Sep;2(3):93–7
Familial aggregation in tropical fibrocalculous pancreatic diabetes. Mohan V, et al. **Pancreas** 1989;4(6):690–3
[Genetic counseling of diabetics] Deschamps I, et al. **Diabete Metab** 1990;16(2 Pt 2):160–71 (53 ref.) (Eng. Abstr.) **(Fre)**
[Monozygotic twin with idiopathic hemochromatosis in a diabetic family] Ikeda A, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):913–8 **(Jpn)**

HISTORY

Oskar Minkowski: discovery of the pancreatic origin of diabetes, 1889. Luft R. **Diabetologia** 1989 Jul;32(7):399–401
[1990 Maurice Dérot Prize. Young diabetic patients in society] Lestradet H. **Journ Annu Diabetol Hotel Dieu** 1990; :301–9 **(Fre)**

IMMUNOLOGY

Pathophysiology of the immune system in elderly subjects with or without diabetes and variations after recombinant interleukin–2. Carnazzo G, et al. **Arch Gerontol Geriatr** 1989 Sep–Oct;9(2):163–80
Immunologic studies of patients with diabetes mellitus who have received long term insulin therapy: lymphocyte reactivity to insulin is correlated with impaired immunoglobulin secretion in vitro. Vandeligt KR, et al. **Clin Immunol Immunopathol** 1989 Dec;53(3):422–9
The role of viruses and the immune system in diabetes mellitus. **Curr Top Microbiol Immunol** 1990;156:1–135
Molecular mimicry and diabetes. Dyrberg T. **Curr Top Microbiol Immunol** 1989;145:117–25 (29 ref.)
The spontaneously diabetic BB rat: sites of the defects leading to autoimmunity and diabetes mellitus. A review. Scott J. **Curr Top Microbiol Immunol** 1990;156:1–14 (56 ref.)
Comparison of insulin autoantibodies in diabetes–related and healthy populations by precise displacement ELISA. Dean BM, et al. **Diabetes** 1989 Oct;38(10):1275–81
Handicaps to host defense. Effects of hyperglycemia on C3 and Candida albicans. Hostetter MK. **Diabetes** 1990 Mar; 39(3):271–5 (43 ref.)
Lack of systematically found insulin autoantibodies in spontaneously diabetic BB rats. Markholst H, et al. **Diabetes** 1990 Jun;39(6):720–7
Blood group, secretor status and oral carriage of yeasts among patients with diabetes mellitus. Blackwell CC, et al. **Diabetes Res** 1989 Nov;12(3):101–4
Impaired agglutination of IgM resulting from non–enzymatic glycation in diabetes mellitus. Hammes HP, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):37–42
Islet cell surface antibodies preferentially inhibit glucose–stimulated insulin release in vitro. Kitagawa Y, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):7–13
Anti–insulin receptor antibodies in human diabetes. Shimoyama R, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S59–66
Immunology and diabetes—on the search for triggers and effectors. Gleichmann H. **Immunol Today** 1989 Aug; 10(8):S33–4
Abstracts of the Ninth International Workshop on the Immunology of Diabetes. Melbourne, Australia, November 1988. **J Autoimmun** 1990 Feb;3(1):43–107
Autoimmunity. A diversity of diabetes [news; comment] Parham P. **Nature** 1990 Jun 21;345(6277):662–4 Comment on: Nature 1990 Jun 21;345(6277):722–4. Comment on: Nature 1990 Jun 21;345(6277):724–6. Comment on: Nature 1990 Jun 21;345(6277):727–9.
Anticardiolipin antibody levels in diabetic subjects with and without coronary artery disease. Hendra TJ, et al. **Postgrad Med J** 1989 Mar;65(761):140–3
HLA–DR and –DQ antigens in malnutrition–related diabetes mellitus in Ethiopians: a clue to its etiology? Abdulkadir J, et al. **Tissue Antigens** 1989 Nov;34(5):284–9
[Peripheral T–lymphocyte subsets changes in patients with endocrine and metabolic diseases] Li QF, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jul;28(7):410–2, 444 (Eng. Abstr.) **(Chi)**
[Surfen allergy causing insulin depot S hypersensitivity] Kása M, et al. **Orv Hetil** 1990 May 6;131(18):965–6, 969 (Eng. Abstr.) **(Hun)**
[Various indicators of nonspecific immunity in diabetic patients with acute appendicitis] Griahchenko EE. **Vestn Khir** 1990 Feb;144(2):42–4 (Eng. Abstr.) **(Rus)**
[The appearance of insulin antibodies in diabetics] Tomašević M, et al. **Med Arh** 1987;41(6):331–3 (Eng. Abstr.) **(Scr)**

METABOLISM

S–100 protein immunoreactivity in human islets of Langerhans. Lászik Z, et al. **Acta Morphol Hung** 1989; 37(1–2):117–24
Glucose tolerance and secretion of insulin in chronic pancreatitis. Peruščová J. **Acta Univ Carol [Med Monogr] (Praha)** 1989;131:1–92 (225 ref.)
Abnormalities of glomerular eicosanoid metabolism in states of glomerular hyperfiltration. Schambelan M, et al. **Adv Exp Med Biol** 1989;259:275–304 (122 ref.)
Hepatic glucose output in humans measured with labeled glucose to reduce negative errors. Levy JC, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E531–40
Molecular biology as a tool in the study of glucose transport and metabolism. Foley JE, et al. **Ann Med** 1990 Jun; 22(3):177–9
Aspects of growth hormone control in diabetes. Hyer SL, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):33–9 (51 ref.)
Adipocyte plasma–membrane Gi and Gs in insulinopenic diabetic patients. Ohisalo JJ, et al. **Biochem J** 1989 Nov 15;264(1):289–92
Glycosylated proteins in diabetic and non–diabetic human aortae. Boyd CS, et al. **Biochem Soc Trans** 1990 Apr; 18(2):297–8
Alterations in myocardial fatty acid metabolism contribute to ischemic injury in the diabetic. Lopaschuk GD. **Can J Cardiol** 1989 Sep;5(6):315–20 (84 ref.)
Effect of diabetes mellitus on salivary paracetamol elimination. Adithan C, et al. **Clin Exp Pharmacol Physiol** 1988 Jun;15(6):465–71
Isolation, purification and partial characterization of novel fluorophores from aging human insoluble collagen–rich tissue. Sell DR, et al. **Connect Tissue Res** 1989;19(1):77–92
Basement membranes: molecular organization and function in development and disease. Schittny JC, et al. **Curr Opin Cell Biol** 1989 Oct;1(5):983–8 (17 ref.)
Glucose transport and glucose transporters in muscle and their metabolic regulation. Klip A, et al. **Diabetes Care** 1990 Mar;13(3):228–43 (126 ref.)
Hepatic glucose production in insulin–resistant states. Ferrannini E, et al. **Diabetes Metab Rev** 1989 Dec; 5(8):711–26 (73 ref.)
Advanced non–enzymatic tissue glycosylation: significance in late diabetic complications. Vlassara H, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S103–8 (38 ref.)
Nutritional status of young adult Ethiopians before onset and after treatment of diabetes mellitus. Lester FT.

Ethiop Med J 1990 Jan;28(1):1-7
Pharmacokinetics of oral cyclosporin A in diabetic children and adolescents. Misteli C, et al. **Eur J Clin Pharmacol** 1990;38(2):181-4
In vitro corneal endothelial permeability in rabbit and human: the effects of age, cataract surgery and diabetes. Watsky MA, et al. **Exp Eye Res** 1989 Nov;49(5):751-67
Is glucose the sole source of tissue browning in diabetes mellitus? Hunt JV, et al. **FEBS Lett** 1990 Aug 20; 269(1):258-60
Effects of antihypertensive treatment on glucose metabolism. An international symposium. Bühlerhöhe, November 1988. Proceedings. **Horm Metab Res Suppl** 1990;22:1-95
Recent advances in carbohydrate nutrition and metabolism in diabetes mellitus. Anderson JW. **J Am Coll Nutr** 1989; 8 Suppl:61S-67S (76 ref.)
End-stage renal disease and diabetes catalyze the formation of a pentose-derived crosslink from aging human collagen. Sell DR, et al. **J Clin Invest** 1990 Feb;85(2):380-4
Serologic and virologic analysis of type D simian retrovirus infection in a colony of Celebes black macaques [letter] Shiigi S, et al. **J Med Primatol** 1989;18(5):421-2
Effect of long-lasting diabetes mellitus on rat and human brain monoamines. Lacković Z, et al. **J Neurochem** 1990 Jan;54(1):143-7
Normal insulin receptors in mitochondrial myopathies with ophthalmoplegia. Piccolo G, et al. **J Neurol Sci** 1989 Dec; 94(1-3):163-72
Effect of cytochalasin B on the uptake of ascorbic acid and glucose by 3T3 fibroblasts: mechanism of impaired ascorbate transport in diabetes. Fay MJ, et al. **Life Sci** 1990; 46(9):619-24
Diabetes mellitus: stress, neurochemistry and behavior. Rowland NE, et al. **Neurosci Biobehav Rev** 1989 Winter; 13(4):199-206 (135 ref.)
Vitamin E and platelet eicosanoids in diabetes mellitus. Gisinger C, et al.
Prostaglandins Leukot Essent Fatty Acids 1990 Jul; 40(3):169-76 (115 ref.)
Interrelationship between metabolism of lipids and glucose. Palicka W, et al. **Przegl Lek** 1989;46(7):611-4 **(Eng, Pol)**
The collisional hypothesis of insulin action, receptor internalization and diabetes [letter] Contreras I, et al.
Trends Biochem Sci 1989 Oct;14(10):399
[The effect of sulfonyl urea, ACTH, and Metopirone on the end products of catecholamine metabolism in diabetes mellitus] Zicha L, et al. **Acta Endocrinol (Copenh)** 1967 Sep;56(1):153-64 (Eng. Abstr.) **(Ger)**
[Non-enzymatic protein glycosylation in diabetes mellitus] Flückiger R. **Schweiz Rundsch Med Prax** 1990 Aug 2; 79(31-32):907-8 **(Ger)**
[Hormonal changes during administration of dietary fibers in patients with decreased glucose tolerance] Rinfel J, et al. **Orv Hetil** 1990 Jan 28;131(4):175-7 (25 ref.) (Eng. Abstr.) **(Hun)**
[A re-evaluation of pupillary sensitivity to autonomics in diabetic patients] Sugiyama T, et al.
Nippon Ganka Gakkai Zasshi 1990 Apr;94(4):413-7 (Eng. Abstr.) **(Jpn)**
[Free radicals and diabetes mellitus] Hayakawa M, et al.
Nippon Ronen Igakkai Zasshi 1990 Mar;27(2):149-54 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Phosphoinositides and their role in the development of chronic complications of diabetes mellitus] Czyżyk A.
Pol Arch Med Wewn 1989 Mar;81(3):129-36 **(Pol)**
[Non-enzymatic protein glycosylation and its clinico-biological significance] Tomaszewski L.
Pol Tyg Lek 1989 Jan 23;44(4):75-80 **(Pol)**
[Amylase in the mixed saliva of diabetics and nondiabetics on an empty stomach and during the glucose tolerance test] Fekete Z, et al. **Lab Delo** 1989;(11):8-12 (Eng. Abstr.) **(Rus)**
[Glycosylated lipoproteins as atherogenic factor in diabetes (review of the literature)] Denisenko TV.
Vopr Med Khim 1990 Mar-Apr;36(2):5-10 (50 ref.) (Eng. Abstr.) **(Rus)**
[Hypomagnesemia and diabetes mellitus] de Madrid JD, et al. **Rev Clin Esp** 1989 Oct;185(6):317-8 (60 ref.) **(Spa)**

MICROBIOLOGY

[Comparative evaluation of bacterial flora present in the external auditory canal in diabetic and normal subjects] Di Luzio Paparatti U, et al. **Riv Eur Sci Med Farmacol** 1988 Jun;10(3):241-4 (Eng. Abstr.) **(Ita)**

MORTALITY

Diabetes in tropical Africa: a prospective study, 1981-7. II. Course and prognosis. McLarty DG, et al. **BMJ** 1990 Apr 28;300(6732):1107-10
Mortality from diabetes mellitus in Jamaica. Alleyne SI, et al. **Bull Pan Am Health Organ** 1989;23(3):306-14
The compelling case for smoking cessation in diabetics [editorial; comment] Howard BV, et al. **Circulation** 1990 Jul;82(1):299-301 Comment on: Circulation 1990 Jul;82(1):37-43.
Trends in mortality rates in the diabetic population of the GDR. Michaelis D, et al. **Exp Clin Endocrinol** 1990 Feb; 95(1):83-90
Diabetes mortality in a tertiary referral hospital in India [letter] Virmani A, et al. **Lancet** 1990 Jun 2;335(8701):1341
Deaths from diabetes are under-reported in national mortality statistics. Whittall DE, et al. **Med J Aust** 1990 Jun 4;152(11):598-600
Diabetes deaths: officials try to allay fears [news] Shulman S. **Nature** 1989 Nov 2;342(6245):4
Diabetes mellitus: prognostic implications of certain complications. Ober KP.
Proc Annu Meet Med Sect Am Counc Life Insur 1989; :133-45
Mortality from diabetes mellitus, ischemic heart disease, and cerebrovascular disease among blacks in a higher income area. Polednak AP. **Public Health Rep** 1990 Jul-Aug; 105(4):393-9
Diabetes mortality update. **Stat Bull Metrop Insur Co** 1989 Oct-Dec;70(4):24-34; discussion 35
Noncommunicable diseases. Deaths from diabetes--1986. **Wkly Epidemiol Rec** 1990 May 11;65(19):146-7 **(Eng, Fre)**
[Mortality among patients with diabetes mellitus in Warsaw--a 10-year prospective study] Janeczko D, et al.
Pol Arch Med Wewn 1989 Mar;81(3):144-55 (Eng. Abstr.) **(Pol)**
[An increase in the relative percentage of diabetes mellitus among the causes of mortality (letter)] Soskin IaM.
Arkh Patol 1990;52(2):78-9 **(Rus)**

NURSING

Survey of diabetes curriculum in schools of nursing [letter] Haire-Joshu D, et al. **Diabetes Care** 1990 Jul;13(7):812-3
A developmental approach to diabetes in children: school age-adolescence. Lipman TH, et al. MCN 1989 Sep-Oct; 14(5):330-2

PARASITOLOGY

[Opisthorchiasis, the pancreas and diabetes mellitus] Zubarev VS, et al. **Med Parazitol (Mosk)** 1990 Mar-Apr;(2):55-7 (42 ref.) (Eng. Abstr.) **(Rus)**

PATHOLOGY

Disseminated Dactylaria gallopava infection in a diabetic patient with chronic lymphocytic leukemia of the T-cell type. Terreni AA, et al. **Am J Clin Pathol** 1990 Jul; 94(1):104-7
A comparison of the pathological spectrum of hypertensive, diabetic, and hypertensive-diabetic heart disease. van Hoeven KH, et al. **Circulation** 1990 Sep;82(3):848-55
Muscle protein wasting in diabetes mellitus: role of proteases. Dahlmann B, et al. **Contrib Nephrol** 1989;73:127-36; discussion 137-8 (70 ref.)
Islet amyloid polypeptide in diabetic and non-diabetic Pima Indians. Clark A, et al. **Diabetologia** 1990 May;33(5):285-9
Depletion of cutaneous nerves and neuropeptides in diabetes mellitus: an immunocytochemical study. Levy DM, et al.
Diabetologia 1989 Jul;32(7):427-33
Neuroretinal rim area in diabetes mellitus. Klein BE, et al.
Invest Ophthalmol Vis Sci 1990 May;31(5):805-9
Shin spots. De Lawter DE. **Md Med J** 1989 Dec;38(12):1073
[A pathologic study of the vagus nerves in diabetes mellitus] Gou YP.
Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Feb; 22(1):32-4, 62 (Eng. Abstr.) **(Chi)**
[Pathologic, epidemiologic and clinical studies of diabetes mellitus and arteriosclerosis] Hasegawa M, et al.
Nippon Rinsho 1989 Nov;47(11):2527-38 **(Jpn)**

PHYSIOPATHOLOGY

Inappropriate growth-hormone (GH) response to thyrotropin-releasing hormone (TRH) occurs infrequently in well-regulated diabetes mellitus. Giampietro O, et al.
Acta Diabetol Lat 1990 Apr-Jun;27(2):119-27
Influence of cardiovascular diseases upon the results of the cardiovascular reflex tests in diabetic and nondiabetic subjects. Krönert K, et al. **Acta Diabetol Lat** 1990 Jan-Mar; 27(1):1-10
Wake and sleep cardiovascular reflex tests and GH profiles in diabetic patients. Silvestri R, et al. **Acta Diabetol Lat** 1989 Jul-Sep;26(3):237-44
Study of visual evoked potentials in diabetics without retinopathy: correlations with clinical findings and polyneuropathy. Mariani E, et al. **Acta Neurol Scand** 1990 Apr;81(4):337-40
Repair of the corneal epithelial adhesion structures following keratectomy wounds in diabetic rabbits. Azar DT, et al.
Acta Ophthalmol Suppl (Copenh) 1989;192:72-9
Glomerular function in diabetes mellitus. Brenner BM, et al. **Adv Nephrol** 1990;19:135-44 (58 ref.)
Gallbladder function and plasma cholecystokinin levels in diabetes mellitus. Mitsukawa T, et al.
Am J Gastroenterol 1990 Aug;85(8):981-5
Concerns about diabetic nephropathy in the treatment of diabetic hypertensive patients. Tolins JP, et al.
Am J Med 1989 Dec 8;87(6A):29S-33S (52 ref.)
Audiometric configuration as a reflection of low plasma glucose and diabetes. Carmen RE, et al. **Am J Otol** 1989 Sep;10(5):372-9
Evaluation of skin blood flow and venoarteriolar response in patients with diabetes and peripheral vascular disease by laser Doppler flowmetry. Belcaro G, et al.
Angiology 1989 Nov;40(11):953-7
Altered functional activity and anoxic tolerance in diabetic rat isolated atria. Savabi F, et al.
Arch Biochem Biophys 1990 May 15;279(1):183-7
Exaggerated orthostatic hypotension as first sign of diabetic autonomic neuropathy in the elderly. Paolisso G, et al.
Arch Gerontol Geriatr 1989 Sep-Oct;9(2):107-13
Quantitative noninvasive electrophysiological evaluation of the activity of the cutaneous division of the sympathetic nervous system. Ionescu-Tirgoviste C, et al.
Arch Int Physiol Biochim 1990 Mar;98(1):111-9
Defective regulation of insulin secretion in diabetes and insulinoma. Flatt PR. **Biochem Soc Trans** 1990 Feb; 18(1):124-7 (34 ref.)
Wound healing in diabetes mellitus. Morain WD, et al.
Clin Plast Surg 1990 Jul;17(3):493-501 (78 ref.)
Role of hypertension in diabetic nephropathy. Ritz E, et al.
Contrib Nephrol 1989;73:91-9; discussion 99-101 (27 ref.)
Pathogenesis of hypertension accompanying diabetes mellitus. Weidmann P. **Contrib Nephrol** 1989;73:73-88; discussion 89-90 (57 ref.)
Body sodium and renin activity in diabetes mellitus. Beretta-Piccoli C, et al. **Diabete Metab** 1989;15(5 Pt 2):296-300 (33 ref.)
Renal sodium metabolism in relation to hypertension in diabetes. Ditzel J, et al. **Diabete Metab** 1989;15(5 Pt 2):292-5 (16 ref.)
The contribution of the sympathetic nervous system to hypertension in diabetes mellitus. Kribben A, et al.
Diabete Metab 1989;15(5 Pt 2):313-7 (48 ref.)
The rationale for the choice of antihypertensive treatment in diabetic patients. Passa P. **Diabete Metab** 1989;15(5 Pt 2):362-6
The kallikrein/kinin system in the pathogenesis of hypertension in diabetes mellitus. Wicklmayr M, et al.
Diabete Metab 1989;15(5 Pt 2):306-10
Pathogenesis of diabetic retinopathy. Engerman RL.
Diabetes 1989 Oct;38(10):1203-6 (20 ref.)
Islet mass and function in diabetes and transplantation. Weir GC, et al. **Diabetes** 1990 Apr;39(4):401-5 (57 ref.)
Cough test to assess cardiovascular autonomic reflexes in diabetes. Cardone C, et al. **Diabetes Care** 1990 Jul; 13(7):719-24
Course of peripheral occlusive arterial disease in diabetes. Vascular laboratory assessment. Osmundson PJ, et al.
Diabetes Care 1990 Feb;13(2):143-52
Glucose toxicity. Rossetti L, et al. **Diabetes Care** 1990 Jun; 13(6):610-30 (183 ref.)
Insulin and atheroma. 20-yr perspective. Stout RW.
Diabetes Care 1990 Jun;13(6):631-54 (229 ref.)
Relationship between age-adjusted heart rate and anaerobic threshold in estimating exercise intensity in diabetics. Fujita Y, et al. **Diabetes Res Clin Pract** 1990 Jan;8(1):69-74
The diabetes physician and an assessment and treatment programme for male erectile impotence. Alexander WD.
Diabetic Med 1990 Jul;7(6):540-3
The epidemiology of foot lesions in diabetic patients aged 15-50 years. Borssén B, et al. **Diabetic Med** 1990 Jun; 7(5):438-44
QT interval length and diabetic autonomic neuropathy. Ewing DJ, et al. **Diabetic Med** 1990 Jan;7(1):23-6
Smoking and diabetes. Mühlhauser I. **Diabetic Med** 1990 Jan; 7(1):10-5 (72 ref.)
Renal handling of uric acid [letter] Thalassinos NC.
Diabetic Med 1990 Jul;7(6):547-8
The cell biology of the insulin receptor. Carpentier JL.
Diabetologia 1989 Sep;32(9):627-35 (81 ref.)
A comparison of peripheral vasoconstrictor responses and cardiovascular autonomic function tests in diabetic patients. Gilmore JE, et al. **Diabetologia** 1990 Jun;33(6):350-6
Current perception thresholds: a new, quick, and reproducible method for the assessment of peripheral neuropathy in diabetes mellitus. Masson EA, et al.
Diabetologia 1989 Oct;32(10):724-8
The spectrum of pancreatic exocrine and endocrine (beta-cell) function in tropical calcific pancreatitis. Yajnik CS, et al. **Diabetologia** 1990 Jul;33(7):417-21
The influence of early diabetes on the pattern electroretinogram. Boschi MC, et al. **Doc Ophthalmol** 1989 Apr;71(4):369-74
Intraocular pressure responses to systemic autonomic stimulation in diabetes mellitus. Lanigan LP, et al.
Doc Ophthalmol 1989 Jun;72(2):141-53
Oscillatory potentials in early diabetic retinopathy. van der Torren K, et al. **Doc Ophthalmol** 1989 Apr;71(4):375-9
Accommodation power determined with transient pattern visual evoked cortical potentials in diabetes. Yamamoto S, et al. **Doc Ophthalmol** 1989 May;72(1):31-7
Diabetic patients and beta-blockers after acute myocardial infarction. Kjekshus J, et al. **Eur Heart J** 1990 Jan; 11(1):43-50 (34 ref.)
Decrease in neonatal suckled milk volume in diabetic women. Miyake A, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Oct;33(1):49-53
Diabetes mellitus and ventilatory capacity: a five year follow-up study. Lange P, et al. **Eur Respir J** 1990 Mar; 3(3):288-92
Responses of the retinal circulation to systemic autonomic stimulation in diabetes mellitus. Lanigan LP, et al. **Eye** 1989;3 (Pt 1):39-47
Impaired autoregulation of the retinal vasculature and microalbuminuria in diabetes mellitus. Lanigan LP, et al.
Eye 1990;4 (Pt 1):174-80
Modeling in biomedical research: an assessment of current and potential approaches. Applications to studies in

cardiovascular/pulmonary function and diabetes [news] **FASEB J** 1989 Dec;3(14):2679–80

Quantitative assessment of aqueous flare intensity in diabetes. Oshika T, et al. **Graefes Arch Clin Exp Ophthalmol** 1989; 227(6):518–20

Decreased high affinity state in platelet alpha 2-adrenoceptors from diabetic patients with orthostatic hypotension. Senard JM, et al. **J Clin Endocrinol Metab** 1990 Aug;71(2):311–7

Islets of Langerhans: the puzzle of intraislet interactions and their relevance to diabetes. Weir GC, et al. **J Clin Invest** 1990 Apr;85(4):983–7 (41 ref.)

Long-term diabetes—long straws, short straws, and very few big guns. McMillan DE. **J Diabetic Complications** 1990 Jan–Mar;4(1):1–2 (14 ref.)

Cigarette smoking and glomerular filtration rate in insulin-treated diabetics without manifest nephropathy. Ekberg G, et al. **J Intern Med** 1990 Sep;228(3):211–7

The diabetic foot: protection and preservation. Chadband RB, et al. **J Med Assoc Ga** 1989 Nov;78(11):777–9 (0 ref.)

An exploration of central dysregulation of erectile function as a contributing cause of diabetic impotence. Nofzinger EA, et al. **J Nerv Ment Dis** 1990 Feb;178(2):90–5

Skin blood flow in diabetic patients during cold loading. Hatanaka H, et al. **Kobe J Med Sci** 1989 Jun;35(3):131–6

Measurement of perception threshold to an electric stimulus using a phase-sensitive technique in normal and diabetic subjects. Prună S, et al. **Med Biol Eng Comput** 1989 Mar; 27(2):111–6

Cardiac autonomic dysfunction during sleep in some neurological diseases. Smirne S, et al. **Neurophysiol Clin** 1990 May;20(2):131–6

Wound healing in the patient with diabetes mellitus. Rosenberg CS. **Nurs Clin North Am** 1990 Mar;25(1):247–61 (57 ref.)

The renin angiotensin system in diabetes mellitus. A physiological and therapeutic study. Björck S. **Scand J Urol Nephrol Suppl** 1990;126:1–51 (183 ref.)

[Electromyographic findings in diabetics] Kalita Z, et al. **Cas Lek Cesk** 1990 Feb 2;129(5):139–41 (Eng. Abstr.) **(Cze)**

[Contraception in the diabetic woman] Basdevant A. **Diabete Metab** 1990;16(2 Pt 2):113–9 (30 ref.) (Eng. Abstr.) **(Fre)**

[Screening of early color vision loss in diabetic patients] Peduzzi M, et al. **J Fr Ophtalmol** 1989;12(11):791–6 (Eng. Abstr.) **(Fre)**

[Hormone replacement therapy of menopause in diabetic women: uncertainties and currently offered choices] Hautecouverture M, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:267–75 (17 ref.) **(Fre)**

[Optimal blood pressure in diabetics] Passa P. **Presse Med** 1990 Mar 24;19(11):497–8 **(Fre)**

[Hypertension, diabetes mellitus and obesity] Heinzl S. **Med Monatsschr Pharm** 1990 Apr;13(4):112–4 (0 ref.) **(Ger)**

[Diabetes mellitus and breast cancer. A retrospective follow-up study] Unterburger P, et al. **Onkologie** 1990 Feb; 13(1):17–20 (Eng. Abstr.) **(Ger)**

[Insulin-like growth factors (IGF I and IGF II) and diabetes] Froesch ER, et al. **Ther Umsch** 1990 Jan;47(1):8–14 (11 ref.) (Eng. Abstr.) **(Ger)**

[Left ventricular function in patient with diabetes mellitus—Evaluated by mechanocardiogram and echocardiogram] Okamoto Y, et al. **Kokyu To Junkan** 1989 Dec;37(12):1327–31 (Eng. Abstr.) **(Jpn)**

[Influence of hepatic arterial embolization on diabetic patients with hepatocellular carcinoma] Sakamoto K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Aug 25; 49(8):986–92 (Eng. Abstr.) **(Jpn)**

[Insulin resistance] Sasaki H, et al. **Nippon Rinsho** 1989 Nov; 47(11):2595–603 **(Jpn)**

[Vibratory and cooling detection thresholds in diabetes mellitus] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):207–14 (Eng. Abstr.) **(Jpn)**

[Studies of the mechanism of arterial hypotension induced by water immersion in healthy persons and in patients with diabetes mellitus] Dulawa J, et al. **Pol Arch Med Wewn** 1987 Oct;78(4):185–96 (Eng. Abstr.) **(Pol)**

[Glucose regulation in diabetes mellitus (the Somogyi effect and the "dawn" phenomenon)] Duțu A, et al. **Rev Med Interna [Med Interna]** 1989 Jul–Aug;41(4):289–94 (18 ref.) **(Rum)**

[Increase in the fronto-occipital measurement of the fetal head in healthy pregnant women and in those with diabetes mellitus] Ordynskiĭ VF. **Akush Ginekol (Mosk)** 1989 Sep; (9):42–5 (Eng. Abstr.) **(Rus)**

[Precursors and the main risk factors of hypertension] Gogin EE. **Klin Med (Mosk)** 1989 Oct;67(10):3–7 (Eng. Abstr.) **(Rus)**

[Age differences in the state of hemodynamics in diabetes mellitus patients] Grishina RA. **Klin Med (Mosk)** 1989 Jul; 67(7):83–5 (Eng. Abstr.) **(Rus)**

[Functional activity of the insular apparatus of the pancreas in children with newly diagnosed diabetes mellitus] Shcherbacheva LN, et al. **Pediatriia** 1989;(11):10–4 (Eng. Abstr.) **(Rus)**

[Kidney tubular function in diabetes mellitus] Bazarova AV, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):87–91 (66 ref.) **(Rus)**

[Epidural anesthesia with prolonged postoperative nerve block in patients with diabetes mellitus] Duboshina TB, et al. **Vestn Khir** 1989 May;142(5):105–6 **(Rus)**

[Autonomic function in uremia and diabetes mellitus] Gómez-Fernández P, et al. **Med Clin (Barc)** 1989 Sep 23; 93(8):286–8 (Eng. Abstr.) **(Spa)**

[Lactic acidosis in diabetic patients associated with buformin] Huidobro F, et al. **Rev Med Chil** 1989 Jan;117(1):46–8 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Is a specialist paediatric diabetic clinic better? Bloomfield S, et al. **Arch Dis Child** 1990 Jan;65(1):139–40

Screening for diabetes [letter] **Diabetes Care** 1990 May; 13(5):541–3

A new deal for diabetes. Bending J, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):251–4 (28 ref.)

Practical benefits achieved by a district diabetic prescribing policy. Kopelman PG, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):248–50

Diagnostic and therapeutic technology assessment. Continuous peritoneal insulin infusion and implantable insulin infusion pumps for diabetic control. **JAMA** 1989 Dec 8;262(22):3195–8

[Methods of influencing life style and risk factors] Mancini M, et al. **G Ital Cardiol** 1989 Sep;19(9):787–99; discussion 811–9 **(Ita)**

[The biological bases for prevention] Paoletti R, et al. **G Ital Cardiol** 1989 Sep;19(9):763–9; discussion 778–86 **(Ita)**

[The implementation of a strategy for the primary prevention of diabetes mellitus] Tomashevskiĭ IaI, et al. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):45–7 (Eng. Abstr.) **(Rus)**

[The importance of the pyruvate test for the early detection of diabetes mellitus in a mass examination of the population] Tomashevskiĭ IaI, et al. **Vrach Delo** 1990 Jun;(6):70–2 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Role of emotional factors in diabetes. Szabó-Kállai K, et al. **Acta Diabetol Lat** 1990 Jan–Mar;27(1):23–9

Understanding the diabetic patient from a psychological dimension: implications for the patient and the provider. Bergman M, et al. **Am J Psychoanal** 1990 Mar;50(1):25–33

Individualized goal setting for diabetic control [letter] Watts NB. **Diabetes Care** 1990 Jul;13(7):811–2

Diabetes mellitus and lifestyle in a north Italian population. Ambrosio GB, et al. **Diabetes Res Clin Pract** 1990 Jan; 8(1):75–7

Drug consumption in elderly diabetics. Gram J, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):293–8

Importance of attitude evaluation in diabetes patient education. Masaki Y, et al. **Diabetes Res Clin Pract** 1990 Jan;8(1):37–44

Anti-smoking programme for diabetic patients: the agony and the ecstasy. Fowler PM, et al. **Diabetic Med** 1989 Nov; 6(8):698–702

A bibliography of the neurobehavioral aspects of diabetes mellitus. L'Hommedieu A, et al. **Exp Aging Res** 1989 Autumn-Winter;15(3–4):203–5

Insulin, love and care. Ludvigsson J. **Horm Res** 1989; 31(5–6):204–9

The effects of applicant's health status and qualifications on simulated hiring decisions. Klesges RC, et al. **Int J Obes** 1990;14(6):527–35

A contribution of qualitative research to a better understanding of diabetic patients. Ternulf Nyhlin K. **J Adv Nurs** 1990 Jul;15(7):796–803 (55 ref.)

Effects of self-monitoring of blood glucose on quality of life in elderly diabetic patients. Gilden JL, et al. **J Am Geriatr Soc** 1990 May;38(5):511–5

The effectiveness of diabetes education programs for older patients and their spouses. Gilden JL, et al. **J Am Geriatr Soc** 1989 Nov;37(11):1023–30

Psychosocial aspects of diabetes mellitus in older persons [editorial] Morley JE, et al. **J Am Geriatr Soc** 1990 May; 38(5):605–6

Factors associated with compliance following diabetic eye screening. Newcomb PA, et al. **J Diabetic Complications** 1990 Jan–Mar;4(1):8–14

A young man with diabetes. Smith S, et al. **Practitioner** 1989 Nov 22;233(1479):1513–6

The impact of environmental factors upon patient attitudes and behaviour. A sociological study from Poland. Lignowska I. **Soc Sci Med** 1989;29(5):681

[Comparative management in the treatment of pediatric diabetes] Mäenpää J. **Duodecim** 1989;105(22):1861–6 **(Fin)**

[Balanced management and psychic clarification in diabetics] Viinamäki H, et al. **Duodecim** 1989;105(23–24):1909–15 **(Fin)**

[The psychosocial components of long-term management of diabetic patients] Kunzendorff E, et al. **Z Arztl Fortbild (Jena)** 1989;83(15):787–90 (0 ref.) **(Ger)**

[Various psychological aspects of diabetes mellitus] Pecyna MB. **Wiad Lek** 1989 Jul 1–15;42(13–15):876–80 (52 ref.) **(Pol)**

REHABILITATION

Individual teaching as a first-step intervention for the education of diabetic subjects. Piaggesi A, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):225–35

New aids for low-vision diabetics. Herget MJ, et al. **Am J Nurs** 1989 Oct;89(10):1319–22

The role of the GP in the management of chronic disease. Diabetes as a model. Buttfield I, et al. **Aust Fam Physician** 1990 Aug;19(8):1187–9, 1193–6, 1199

The importance of the general practitioner in diabetes education [editorial] Gunn J, et al. **Aust Fam Physician** 1990 Aug;19(8):1149

Pitfalls in the management of diabetes. Hoskins P, et al. **Aust Fam Physician** 1990 Aug;19(8):1217–9, 1222

Validation of scale measuring environmental barriers to diabetes-regimen adherence. Irvine AA, et al. **Diabetes Care** 1990 Jul;13(7):705–11

Effect of diabetes education on self-care, metabolic control, and emotional well-being. Rubin RR, et al. **Diabetes Care** 1989 Nov–Dec;12(10):673–9

Readability of diabetes self-report measures [letter] Wysocki T, et al. **Diabetes Care** 1989 Nov–Dec;12(10):752–3

Novel approach to diabetes education: the Strathclyde community education caravan. Fisher BM, et al. **Diabetic Med** 1990 Feb;7(2):178–9

Twenty-five years of a diabetes education centre. Hunt JA. **Diabetic Med** 1990 Jun;7(5):400–6

Employment problems and diabetes. Robinson N, et al. **Diabetic Med** 1990 Jan;7(1):16–22

Changing roles and challenges for teachers of students with diabetes. Goodrich SW, et al. **J Sch Health** 1989 Oct; 59(8):341–5

Standards of medical care for patients with diabetes mellitus. American Diabetes Association. **Pa Med** 1990 Jan; 93(1):24–6, 28, 30

Comparing care of Pennsylvania patients with diabetes to national standards. Jacques CH, et al. **Pa Med** 1990 Jan; 93(1):26

Standards educate physicians about diabetes [editorial] Smith DA. **Pa Med** 1990 Jan;93(1):8

[Physical rehabilitation in diabetes mellitus] Balabolkin MI, et al. **Sov Med** 1989;(9):84–6 **(Rus)**

SURGERY

Preoperative characteristics predicting intraoperative hypotension and hypertension among hypertensives and diabetics undergoing noncardiac surgery. Charlson ME, et al. **Ann Surg** 1990 Jul;212(1):66–81

Aspects of pancreatic islet transplantation in diabetes mellitus. Hellerström C, et al. **Baillieres Clin Gastroenterol** 1989 Oct; 3(4):851–63 (44 ref.)

Metabolic control and effect on secondary complications of diabetes mellitus by pancreatic transplantation. Landgraf R, et al. **Baillieres Clin Gastroenterol** 1989 Oct;3(4):865–76 (47 ref.)

Pancreatic transplantation. 8th Marjorie Budd lecture. Morris P. **Bristol Med Chir J** 1989 Feb;104(1):16

Islet transplantation in diabetes mellitus. Bretzel RG, et al. **Contrib Nephrol** 1989;73:217–26; discussion 226–8 (19 ref.)

Nonuremic pancreas transplantation [letter; comment] Harmer N. **Diabetes Care** 1990 Apr;13(4):452 Comment on: Diabetes Care 1989 Jul–Aug;12(7):511–2.

Transplantation of pancreatic islet tissue and the control of diabetes mellitus. Slater DN, et al. **Invest Cell Pathol** 1978 Jan–Mar;1(1):65–97 (167 ref.)

Transplantation or insulin. **Lancet** 1990 Jun 9; 335(8702):1371–2 (18 ref.)

Update on pancreatic islet cell transplantation. Jung PJ, et al. **Semin Surg Oncol** 1990;6(2):122–5 (38 ref.)

Where are we with pancreas transplantation? Brooks JR. **Surgery** 1989 Dec;106(6):935–45 (62 ref.)

Does pancreas transplantation really improve the patient's quality of life? Johnson JL, et al. **Transplant Proc** 1990 Apr;22(2):575–6

International pancreas transplantation registry analysis. Sutherland DE, et al. **Transplant Proc** 1990 Apr;22(2):571–4

Differential diagnosis of hypoamylasuria in pancreas allograft recipients with urinary exocrine drainage. Munn SR, et al. **Transplantation** 1990 Feb;49(2):359–62

Management of diabetes mellitus during surgery. Gavin LA. **West J Med** 1989 Nov;151(5):525–9

Perioperative glucose control in diabetic patients—strategies for the 1990s [editorial] Watts NB. **West J Med** 1989 Nov; 151(5):552–3

[Are there indications for grafts of the pancreas?] Altman JJ, et al. **Ann Med Interne (Paris)** 1990;141(1):8–10 (17 ref.) **(Fre)**

[Pancreas transplantation in the treatment of diabetes mellitus (editorial)] Coslovsky R. **Harefuah** 1990 Feb 1;118(3):185–7 **(Heb)**

[Pancreatic islets transplantation] Takami M, et al. **Nippon Rinsho** 1989 Nov;47(11):2589–94 **(Jpn)**

[Transplantation of small segments of the pancreas with microvascular connections as one of the methods of treatment of diabetes mellitus] Kiprenskiĭ IuV, et al. **Klin Khir** 1989;(11):26–8 (Eng. Abstr.) **(Rus)**

[Pancreas transplant] Fernández-Cruz Pérez L, et al. **Rev Clin Esp** 1989 Jul–Aug;185(3):141–6 (27 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Diabetes care in older adults: current issues in management and research. Anderson LA, et al. **Ann Rev Gerontol Geriatr** 1989;9:35–73 (108 ref.)

A systematic approach to diabetes care. Copeman RC. **Aust Fam Physician** 1990 Aug;19(8):1175–6, 1180–5
Diabetes health care. Magennis A. **Aust Fam Physician** 1990 Aug;19(8):1291–2
Advances in the management of diabetes mellitus. White CP, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):7–11 (45 ref.)
Pancreatic transplantation or intensive insulin therapy? Siegel EG, et al. **Baillieres Clin Gastroenterol** 1989 Oct; 3(4):877–86 (46 ref.)
Implications of an intracorporeal glucose sensor in the management of diabetic patients. Bruns W. **Biomed Biochim Acta** 1989;48(11–12):925–33
Novel role for specialist nurses in managing diabetes in the community. MacKinnon M, et al. **BMJ** 1989 Aug 26; 299(6698):552–4
Organization of care for diabetic patients in general practice: influence on hospital admissions. Farmer A, et al. **Br J Gen Pract** 1990 Feb;40(331):56–8
Community care for elderly diabetics: the Fredericia Survey of diabetic and fasting hyperglycaemic subjects aged 60–74 years. Damsgaard EM, et al. **Dan Med Bull** 1989 Dec; 36(6):565–8
Telephone versus face to face interviewing as a means of collecting data relevant to the management of diabetes among general practitioners in France: a randomized design. Chwalow AJ, et al. **Diabete Metab** 1989 Jul–Aug; 15(4):157–60
Diabetes mellitus and exercise. **Diabetes Care** 1990 Jul; 13(7):804–5
Preventive care in diabetes mellitus. Current practice in urban health-care system. Payne TH, et al. **Diabetes Care** 1989 Nov–Dec;12(10):745–7
Targeting professional education. Pragmatism, priorities, and patience [editorial] Robbins DC. **Diabetes Care** 1990 Apr; 13(4):449–50
The East of Scotland Diabetes Group. Clarke B. **Diabetic Med** 1990 Feb;7(2):173–4
Diabetes care in Romania: increasing interest in diabetes education. Dumitrescu C, et al. **Diabetic Med** 1989 Nov; 6(8):739–40
Whose diabetes service is it, anyway? [editorial] Home P. **Diabetic Med** 1990 Jul;7(6):549
District diabetes centres [letter] Knight AH. **Diabetic Med** 1989 Dec;6(9):830
An inner city district diabetic care scheme. Kopelman P, et al. **Diabetic Med** 1990 Jul;7(6):558–60
Desk top publishing in diabetes. McIntosh CS. **Diabetic Med** 1990 Jul;7(6):551–3
General practice diabetes care: the past, the present and the future. MacKinnon M. **Diabetic Med** 1990 Feb;7(2):171–2
What diabetic care to expect? Redmond S. **Diabetic Med** 1990 Jul;7(6):554
Care of diabetic patients in the Republic of Seychelles. Sullivan FM, et al. **Diabetic Med** 1989 Nov;6(8):736–8
A three-year evaluation of the quality of diabetes care in the Norwich community care scheme. Williams DR, et al. **Diabetic Med** 1990 Jan;7(1):74–9
Bioartificial pancreas: status and bottlenecks. Reach G. **Int J Artif Organs** 1990 Jun;13(6):329–36 (52 ref.)
Educating the patient to manage his disease: the example of diabetes mellitus. Assal JP, et al. **J Hum Hypertens** 1990 Feb;4 Suppl 1:13–20 (31 ref.)
Community-based diabetes programs. Barker CO, et al. **J Med Assoc Ga** 1989 Nov;78(11):753–5
Critical factors in the surveillance and management of healthy diabetic patients. Bransome ED Jr, et al. **J Med Assoc Ga** 1989 Nov;78(11):749–52
Diabetes mellitus: good management can make a difference. Gebhart SS. **J Med Assoc Ga** 1989 Nov;78(11):743
Georgia's public health experience with diabetes control. Hartley JW, et al. **J Med Assoc Ga** 1989 Nov;78(11):759–61
DMSS—a computer-based diabetes monitoring system. Zviran M, et al. **J Med Syst** 1989 Oct;13(5):293–308
Organized personal care—an effective choice for managing diabetes in general practice. Foulkes A, et al. **J R Coll Gen Pract** 1989 Nov;39(328):444–7
Parenteral nutrition in patients with diabetes mellitus: theoretical and practical considerations. McMahon M, et al. **JPEN J Parenter Enteral Nutr** 1989 Sep–Oct; 13(5):545–53 (129 ref.)
A visit to Digri—Tharparkar. Jawad F. **JPMA** 1990 Jan; 40(1):25–6
The role related attitudes of physicians, nurses, and dieticians in the treatment of diabetes. Donnelly MB, et al. **Med Care** 1990 Feb;28(2):175–9
Good control slows diabetic retinopathy. **Practitioner** 1989 Nov 22;233(1479):1520
Diabetic clinics: how to run one. Abell C. **Practitioner** 1990 Feb 8;234(1482):92–4
Diabetic clinics: audit. Abell C. **Practitioner** 1990 Feb 22; 234(1483):149–51
Diabetic clinics: setting up. Abell C. **Practitioner** 1990 Jan 15;234(1481):26–7
Developing diabetic care. Foster W, et al. **Practitioner** 1989 Jul 8;233(1472):1023–4, 1026–7
Determinants of active self-care behaviour of insulin treated patients with diabetes: implications for diabetes education. de Weerdt I, et al. **Soc Sci Med** 1990;30(5):605–15
Exercise and diabetes mellitus in pregnancy. A brief review. Artal R. **Sports Med** 1990 May;9(5):261–5 (19 ref.)
The effect of health education for diabetics in the community. Chuang LM, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Nov-Dec;88(11–12):1143–6
[The current treatment of diabetes mellitus in Bulgaria] Koev D, et al. **Vutr Boles** 1989;28(4):8–12 (Bul)
[New forms of follow-up and treatment of diabetics] Koeva L, et al. **Vutr Boles** 1989;28(4):64–7 (Bul)
[Diabetes education: striving for behavior change] Jager KJ, et al. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2322–6 (Dut)
[Present status of therapeutics in diabetology] Leutenegger M, et al. **Therapie** 1989 Jul–Aug;44(4):239–43 (Fre)
[Artificial nutrition of diabetic patients] Wicklmayr M, et al. **Infusionstherapie** 1989 Oct;16(5):233–6 (10 ref.) (Eng. Abstr.) (Ger)
[Normoglycemia as a therapy goal in diabetes treatment—concept and realization] Siegel EG. **Klin Wochenschr** 1990 Mar 16;68(6):306–12 (60 ref.) (Eng. Abstr.) (Ger)
[Orthopedic technical and surgical measures in the diabetic foot] Rüttimann B. **Ther Umsch** 1990 Jan;47(1):63–70 (11 ref.) (Eng. Abstr.) (Ger)
[Is intensive therapy of diabetes advisable? (editorial)] Canaani Z. **Harefuah** 1990 Jan 15;118(2):119–20 (Heb)
[Treatment of diabetes mellitus] Goto Y. **Nippon Naika Gakkai Zasshi** 1990 Mar 10;79(3):317–21 (Jpn)
[Patients education upon diabetes treatment] Matsuoka K. **Nippon Rinsho** 1989 Nov;47(11):2554–9 (Jpn)
[Nutrition and physical exercise in diabetes mellitus] Caldeira J, et al. **Acta Med Port** 1989 Sep;Suppl 1:5S–8S (8 ref.) (Eng. Abstr.) (Por)
[The teaching of diabetic patients—an equally valuable component part of their combined treatment (on-the-job training at the WHO center for teaching and treating diabetics) (news)] Ionushas BS. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):87–8 (Rus)
[Teaching patients principles of self-control—a reserve for increasing the effectiveness of treatment of diabetes mellitus (a lecture)] Kasatkina EP. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):55–9 (Rus)
[The expediency of using B. I. Bleskin's method in treating diabetics] Mikhallova EV, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):46–7 (Rus)
[Experience with the education of diabetic patients at a polyclinic] Nariavichene FL, et al. **Probl Endokrinol (Mosk)** 1990 Mar–Apr;36(2):58–9 (Rus)
[Nontraditional methods in the combined treatment of diabetes mellitus] Shcherbak AV. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):81–7 (80 ref.) (Rus)
[A variant of the self-control system in the dispensary care of diabetics] Voronaeva SI, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):45–6 (Rus)
[Ambulatory medical services for patients with diabetes mellitus] Mindlin IaS, et al. **Sov Zdravookhr** 1990;(3):31–5 (Eng. Abstr.) (Rus)
[Prosthodontic characteristics of diabetics] Dolnikov AI, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):55–6 (Eng. Abstr.) (Rus)
[The significance of compensation in diabetes mellitus in the development of diabetic microangiopathies (a review of the literature)] Gendeleka GF. **Vrach Delo** 1989 Aug; (8):54–8 (35 ref.) (Rus)
[The treatment of diabetics at the health resort of Truskavets] Orlov OB, et al. **Vrach Delo** 1990 May;(5):58–60 (Eng. Abstr.) (Rus)
[Hemosorption in the combined treatment of patients with ischemic heart disease and diabetes mellitus] Trusov VV, et al. **Vrach Delo** 1989 Jul;(7):86–8 (Eng. Abstr.) (Rus)
[Diabetes mellitus education in primary care (editorial)] Costa Pinel B. **Med Clin (Barc)** 1989 Oct 14;93(11):415–7 (Spa)
[Programs of diabetes mellitus education (letter)] Trilla M, et al. **Med Clin (Barc)** 1990 Mar 17;94(10):399 (Spa)

URINE

Urinary carboxymethyl-lysine measurement as a potential indicator of diabetic complications. Gould BJ, et al. **Biochem Soc Trans** 1989 Dec;17(6):1087–8
Renal excretion of magnesium and calcium in diabetes mellitus. Olukoga AO, et al. **Cent Afr J Med** 1989 Apr; 35(4):378–83
Microtransferrinuria and microalbuminuria. I. In the diabetic human. McCormick CP, et al. **Clin Physiol Biochem** 1990; 8(2):53–8
Correlation of urinary albumin and beta-2-microglobulin and growth hormone excretion in patients with diabetes mellitus and short stature. Pan FP, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):611–7
Increased albumin excretion in diabetes. Townsend JC. **J Clin Pathol** 1990 Jan;43(1):3–8 (89 ref.)
Clinical characteristics associated with microalbuminuria in an adult diabetic population. Tung P, et al. **J Diabetic Complications** 1990 Jan–Mar;4(1):15–20
Urinary excretion of kappa light chains in patients with diabetes mellitus. Groop L, et al. **Kidney Int** 1990 Apr; 37(4):1120–5
[Screening methods for microalbuminuria in diabetes mellitus] Pedersen LM, et al. **Ugeskr Laeger** 1990 Mar 26; 152(13):912–3 (Eng. Abstr.) (Dan)
[A simple qualitative method for assessing microalbuminuria in diabetics] Maislos M, et al. **Harefuah** 1990 Mar 15; 118(6):321–2 (Eng. Abstr.) (Heb)
[The effects of atrial natriuretic peptide on urinary protein excretion in patients with renal parenchymal disease and those with diabetic mellitus] Fukui K, et al. **Nippon Jinzo Gakkai Shi** 1990 Feb;32(2):199–205 (Eng. Abstr.) (Jpn)
[A study of microproteinuria in patients with diabetes mellitus] Ishii K, et al. **Nippon Jinzo Gakkai Shi** 1989 Aug; 31(8):815–25 (Eng. Abstr.) (Jpn)
[Gas chromatographic study of the composition of the volatile components of the urine in normal subjects and patients with diabetes mellitus] Inglik N, et al. **Lab Delo** 1989;(8):24–7 (Eng. Abstr.) (Rus)
[Adrenaline, noradrenaline and vanilmandelic acid in the urine in diabetics] Popović J, et al. **Srp Arh Celok Lek** 1987 Apr;115(4):431–41 (Eng. Abstr.) (Scc)
[Residual urine and phagocytic activity of polymorphonuclear cells in diabetes] Sorf M, et al. **Vnitr Lek** 1989 Sep;35(9):899–902 (Eng. Abstr.) (Slo)

VETERINARY

Pathological observation of six cases of feline diabetes mellitus. Nakayama H, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):819–22
The cellular composition in the pancreatic islet of a cow with spontaneous diabetes mellitus. Ono K, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):1067–9
[Insulin: U40 and U100] Belshaw BE, et al. **Tijdschr Diergeneeskd** 1989 Dec 15;114(24):1267 (Dut)

DIABETES MELLITUS, ADULT ONSET see **DIABETES MELLITUS, NON-INSULIN-DEPENDENT**

DIABETES MELLITUS, BRITTLE see **DIABETES MELLITUS, INSULIN-DEPENDENT**

DIABETES MELLITUS, EXPERIMENTAL

Effects of D-glucose and beta-hydroxybutyric acid on the in vitro development of (pre)chondrocytes from embryos of normal and diabetic rats. Styrud J, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):487–98
Tissue response to hydroxylapatite in induced diabetic and nondiabetic rats: histologic evaluation. el Deeb M, et al. **J Oral Maxillofac Surg** 1990 May;48(5):476–81

BLOOD

The role of insulin-like growth factor I in growth of diabetic rats. Binz K, et al. **Acta Endocrinol (Copenh)** 1989 Nov; 121(5):628–32
Inhibition of leukocyte chemotaxis by serum factor in diabetes mellitus: selective depression of cell responses mediated by complement-derived chemoattractants. Sannomiya P, et al. **Agents Actions** 1990 Jun;30(3–4):369–76
The hypoglycemic effect of the crude drug prescription resources from Taiwan on experimental diabetic-mellitus (II)—the antihyperglycemic effect of tang-niao-tung no. 2 and no. 3. Lin CC, et al. **Am J Chin Med** 1989; 17(1–2):9–15
Control of glucose homeostasis in lactating ewes: use of the alloxan-diabetic/insulin-stabilized ewe to study effects of insulin and growth hormone. Leenanuruksa D, et al. **Aust J Biol Sci** 1988;41(4):421–33
Serum esterase activities and hyperlipidaemia in the streptozotocin-diabetic rat. Patel BN, et al. **Biochim Biophys Acta** 1990 Jul 20;1035(1):113–6
Insulin-tumour interrelationship in EL4 lymphoma or thymoma-bearing mice. I. Alloxan-diabetic or non-diabetic mice. Yam D, et al. **Br J Cancer** 1990 May; 61(5):689–94
Nerve regeneration and serum levels of insulin-like growth factor-I in rats with streptozotocin-induced insulin deficiency. Ekström AR, et al. **Brain Res** 1989 Sep 4; 496(1–2):141–7
Effects of single and repeated blood withdrawals on circulating mononuclear cells in BB rats. Failure to prevent diabetes despite acute changes in counts. Marliss EB, et al. **Diabetes** 1990 Sep;39(9):1099–105
Decreased fluidity of polymorphonuclear leukocyte membrane in streptozocin-induced diabetic rats. Masuda M, et al. **Diabetes** 1990 Apr;39(4):466–70
Insulin secretion in neonatally streptozotocin-injected mice. Ahrén B, et al. **Diabetes Res** 1989 Aug;11(4):185–9
The effect of vitamin E on glycosylated hemoglobin levels in diabetic rats: a preliminary report. Ozden I, et al. **Diabetes Res** 1989 Nov;12(3):123–4
The role of insulin in triglyceride turnover in rats. Iwai M, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S115–8
Effect of Gymnema sylvestre, R.Br. on glucose homeostasis in rats. Okabayashi Y, et al. **Diabetes Res Clin Pract** 1990 May–Jun;9(2):143–8
Toxic effects of vanadium in streptozotocin-treated rats after administration of vanadate to normalize blood glucose levels [letter; comment] Domingo JL, et al. **Diabetologia** 1990 Jan;33(1):62–3 Comment on: Diabetologia 1989 Mar;32(3):185–90.
HbA1 in assessment of metabolic control in diabetic BB/E rats. Tames FJ, et al. **Diabetologia** 1990 May;33(5):257–61
Plasma from BB/Wor rats increases insulin secretion by perfused rat pancreas. Driscoll HK, et al. **Endocrinology** 1990 Feb;126(2):1241–9

Regulation of low molecular weight insulin-like growth factor binding proteins in experimental diabetes mellitus. Unterman TG, et al. **Endocrinology** 1990 May; 126(5):2614–24

Maternal and fetal plasma lipids in alloxan diabetic and nondiabetic rabbits fed a peanut oil–cholesterol diet. Sisson JA, et al. **Exp Mol Pathol** 1968 Oct;9(2):197–205

Prevention of hyperglycemia in streptozotocin-treated rats by submandibular ablation. Boros I, et al. **Horm Metab Res** 1989 Aug;21(8):460–1

Distribution of free amino acids in streptozotocin–induced diabetic pregnant rats, their placentae and fetuses. Copeland AD Jr, et al. **Horm Metab Res** 1990 Feb;22(2):65–70

Growth hormone and growth in diabetic rats: effects of insulin and insulin–like growth factor–I infusions. Carlsson LM, et al. **J Endocrinol** 1989 Sep;122(3):661–70

Effect of aloes on blood glucose levels in normal and alloxan diabetic mice. Ajabnoor MA. **J Ethnopharmacol** 1990 Feb; 28(2):215–20

Effect of Zizyphus sativa leaves on blood glucose levels in normal and alloxan–diabetic rats. Anand KK, et al. **J Ethnopharmacol** 1989 Nov;27(1–2):121–7

Insulin absorption from conjunctiva studied in normal and diabetic dogs. Nomura M, et al. **J Pharm Pharmacol** 1990 Apr;42(4):292–4

Effects of Acacia arabica and Caralluma edulis on blood glucose levels of normal and alloxan diabetic rabbits. Wadood A, et al. **JPMA** 1989 Aug;39(8):208–12

Elevated lipid peroxidation levels in red blood cells of streptozotocin–treated diabetic rats. Jain SK, et al. **Metabolism** 1990 Sep;39(9):971–5

Insulinic actions of vanadate in diabetic rats. Sekar N, et al. **Pharmacol Res** 1990 Mar–Apr;22(2):207–17

Ambulatory activity in streptozotocin–induced diabetic rats. Shimomura Y, et al. **Physiol Behav** 1990 Jun;47(6):1153–5

[Relationship between blood glucose and serum lipoproteins in alloxan diabetic rabbit] Li XH. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Oct; 11(5):363–5 (Eng. Abstr.) **(Chi)**

[Role of the pancreas in the appearance of the diabetogenic factor during the development of alloxan diabetes] Kudriashov BA, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun; (3):75–9 (Eng. Abstr.) **(Rus)**

[Tha fatty acid spectrum of the thrombocyte phospholipids in experimental diabetes mellitus complicated by proteinuria] Bondar' VI, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):76–81 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Streptozotocin interactions with pancreatic beta cells and the induction of insulin–dependent diabetes. Wilson GL, et al. **Curr Top Microbiol Immunol** 1990;156:27–54 (132 ref.)

Morphology and functional responses of isolated zona glomerulosa cells of streptozotocin–induced diabetic rats. Andreis PG, et al. **Exp Pathol** 1990;39(2):65–71

Effect of a single administration of tolbutamide on the occurrence of alloxan diabetes in rats. Katsumata K, et al. **Horm Metab Res** 1990 Mar;22(3):192–3

Streptozotocin and alloxan produce alterations in rat brain monoamines independently of pancreatic beta cells destruction. Lacković Z, et al. **Life Sci** 1990;46(1):49–54

Diabetic syndrome induced by monosodium aspartate administration in Microtus arvalis Pallas. Sasaki M, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):669–75

[Modelling of diabetes mellitus using chelating agents] Gol'dberg ED, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun; (3):81–3 **(Rus)**

[Intensification of the diabetogenic effect of alloxan by protamine sulfate] Kudriashov BA, et al. **Vopr Med Khim** 1989 Jul–Aug;35(4):128–31 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Morphogenesis of diabetes–induced congenital cataract in the rat. Giavini E, et al. **Acta Anat (Basel)** 1990;137(2):132–6

Effect of thalidomide on the incidence of iodine–induced and spontaneous lymphocytic thyroiditis and spontaneous diabetes mellitus in the BB/Wor rat. Lueprasitsakul W, et al. **Acta Endocrinol (Copenh)** 1990 Jul;123(1):79–83

Peripheral motor neuropathy in spontaneously diabetic WBN/Kob rats: a morphometric and electron microscopic study. Narama I, et al. **Acta Neuropathol (Berl)** 1989; 79(1):52–60

Ventricular vulnerability in diabetes and myocardial norepinephrine release. Fusilli L, et al. **Am J Med Sci** 1989 Oct;298(4):207–14

Hypertensive–diabetic cardiomyopathy in rats. Fein FS, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H793–805

Association of DOCA hypertension with induction of atherosclerosis in rats with short–term diabetes mellitus. Hebden RA, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R1042–50

Effect of retinoids on wound healing in diabetic rats. Frosch PJ, et al. **Arch Dermatol Res** 1989;281(6):424–6

Congenital malformations in offspring of diabetic rats: experimental study on the influence of the diet composition and magnesium intake. Giavini E, et al. **Biol Neonate** 1990; 57(3–4):207–17

Adrenergic innervation in the tibial and vagus nerves of rats with streptozotocin–induced diabetes. Koistinaho J, et al. **Brain Res** 1990 Apr 9;513(1):106–12

Uteroplacental hemodynamic disturbances in establishment of fetal growth retardation in streptozocin–induced diabetic rats. Chartrel NC, et al. **Diabetes** 1990 Jun;39(6):743–6

Prospective analysis of eosinophilia in spontaneously diabetic BB rats: correlation with islet inflammation but not with diabetes development. Maruta K, et al. **Diabetes Res** 1989 Aug;11(4):173–6

Assessment of the role of the immunoglobulin isotypes in the development of diabetic nephropathy in untreated streptozotocin–induced diabetic rats. Thiele GM, et al. **Diabetes Res** 1989 Sep;12(1):15–24

The virulence of Enterobacter cloacae and Serratia marcescens in experimental bladder infection in diabetic mice. Obana Y, et al. **J Med Microbiol** 1989 Oct;30(2):105–9

Studies of resistance to ischemic nerve conduction failure in normal and diabetic rats. Parry GJ, et al. **J Neurol Sci** 1989 Oct;93(1):61–7

Further studies of enhanced growth of pancreatic carcinoma in diabetes. Fisher WE, et al. **J Surg Res** 1990 May; 48(5):403–7

Evidence against the involvement of nonenzymatic glycosylation in diabetic cardiomyopathy. Ganguly PK, et al. **Metabolism** 1990 Jul;39(7):769–73

Effects of streptozotocin–induced diabetes mellitus on growth and hepatic insulin–like growth factor I gene expression in the rat. Yang H, et al. **Metabolism** 1990 Mar; 39(3):295–301

Recovery from contact lens–induced edema is prolonged in the diabetic rabbit cornea. Herse PR. **Optom Vis Sci** 1990 Jun;67(6):466–70

Diabetic strain (WBN/Kob) of rat characterized by endocrine–exocrine pancreatic impairment due to distinct fibrosis. Mori Y, et al. **Pancreas** 1990 Jul;5(4):452–9

Nonosmotic diabetic cataracts. Malone JI, et al. **Pediatr Res** 1990 Mar;27(3):293–6

A high cholesterol diet ameliorates renal tubular lesions in diabetic rats. Reyes AA, et al. **Proc Soc Exp Biol Med** 1990 Jul;194(3):177–85

Opposite effects of diabetes on nephrotoxic and ischemic acute tubular necrosis. Wald H, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):51–6

Tetracycline administration prevents diabetes–induced osteopenia in the rat: initial observations. Golub LM, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr; 68(1):27–40

Renal candidiasis in the rat: effects of ureteral obstruction and diabetes. Tarry WF, et al. **Urol Res** 1989;17(6):367–70

[Study of the prophylactic effect of human granulocyte–colony stimulating factor (G–CSF) on experimental pyelonephritis induced by Pseudomonas aeruginosa in diabetic mice] Yokoo A, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):738–47 (Eng. Abstr.) **(Jpn)**

DIET THERAPY

Reduction of glycemic and lipid levels in db/db diabetic mice by psyllium plant fiber. Watters K, et al. **Diabetes** 1989 Dec;38(12):1528–33

DRUG THERAPY

Reduction in blood and urine glucose levels in streptozotocin and alloxan diabetes by phenazine methosulfate. Akpan JO. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):195–201

PDGF and FGF stimulate wound healing in the genetically diabetic mouse. Greenhalgh DG, et al. **Am J Pathol** 1990 Jun;136(6):1235–46

Effects of estradiol and progesterone on diabetes–associated utero–ovarian atrophy in C57BL/KsJ (db/db) mutant mice. Garris DR. **Anat Rec** 1989 Dec;225(4):310–7

Epidermal growth factor and insulin act synergistically during diabetic healing. Hennessey PJ, et al. **Arch Surg** 1990 Jul;125(7):926–9

The effect of ponalrestat on sorbitol levels in the lens of obese and diabetic mice. Vicario PP, et al. **Biochem Int** 1989 Sep;19(3):553–61

Supplemental taurine in diabetic rats: effects on plasma glucose and triglycerides. Goodman HO, et al. **Biochem Med Metab Biol** 1990 Feb;43(1):1–9

Enhanced in vivo sensitivity of vanadyl–treated diabetic rats to insulin. Ramanadham S, et al. **Can J Physiol Pharmacol** 1990 Apr;68(4):486–91

Failure of glucose tolerance factor–containing Brewer's yeast to ameliorate spontaneous diabetes in C57BL/KsJ DB/DB mice. Flatt PR, et al. **Diabetes Res** 1989 Mar;10(3):147–51

Enalapril retards glomerular basement membrane thickening and albuminuria in the diabetic rat: are these effects specific for enalapril? [letter; comment] Baba T, et al. **Diabetologia** 1989 Nov;32(11):829 Comment on: Diabetologia 1989 May;32(5):326–8.

Insulin therapy on the peritoneal route: effects on glucose control in experimental insulin dependent diabetes. Fischer U, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):11–21

Impaired nerve regeneration in streptozotocin–diabetic rats is improved by treatment with gangliosides. Ekström PA, et al. **Exp Neurol** 1990 Aug;109(2):200–3

Antidiabetic effect of a leucocyanidin derivative isolated from the bark of Ficus bengalensis Linn. Kumar RV, et al. **Indian J Biochem Biophys** 1989 Dec;26(6):400–4

Effect of diabetes and time after in vivo insulin administration on ketogenesis and gluconeogenesis in isolated rat hepatocytes. Kaloyianni M, et al. **Int J Biochem** 1990; 22(2):159–64

Recombinant human tumor necrosis factor alpha suppresses autoimmune diabetes in nonobese diabetic mice. Satoh J, et al. **J Clin Invest** 1989 Oct;84(4):1345–8

Preventive effect of long–term aldose reductase inhibition (ponalrestat) on nerve conduction and sural nerve structure in the spontaneously diabetic Bio–Breeding rat. Sima AA, et al. **J Clin Invest** 1990 May;85(5):1410–20

Minocycline–treatment of diabetic rats normalizes skin collagen production and mass: possible causative mechanisms. Schneir M, et al. **Matrix** 1990 May; 10(2):112–23

Effect of metformin treatment on insulin action in diabetic rats: in vivo and in vitro correlations. Rossetti L, et al. **Metabolism** 1990 Apr;39(4):425–35

Piroxicam may reduce the rate of progression of experimental diabetic neuropathy. Parry GJ, et al. **Neurology** 1990 Sep; 40(9):1446–9

Effects of (–)15–deoxyspergualin on pancreatic islet B–cell function in vitro and on the development of diabetes after multiple low dose streptozotocin administration. Strandell E, et al. **Pharmacol Toxicol** 1989 Aug;65(2):114–8

Hypoglycaemic activity of dioscoretine from tubers of Dioscorea dumetorum in normal and alloxan diabetic rabbits. Iwu MM, et al. **Planta Med** 1990 Jun;56(3):264–7

[The hypoglycemic effect of clausenacoumarine] Shen ZF, et al. **Yao Hsueh Hsueh Pao** 1989;24(5):391–2 (Eng. Abstr.) **(Chi)**

[Effect of insulin on the incidence of experimental Serratia marcescens cystitis in diabetic mice—relationship between insulin therapy and urea nitrogen content] Obana Y, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):708–13 (Eng. Abstr.) **(Jpn)**

[The action of adaptogenic plant preparations in experimental alloxan diabetes] Molokovskii DS, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):82–7 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

The effect of alloxan diabetes on the activity of some mixed function oxidases in male rats. Nedjar A, et al. **Acta Physiol Pharmacol Bulg** 1990;16(1):50–5

Glandular kallikrein, renin and angiotensin converting enzyme of diabetic and hypertensive rats. Handa H, et al. **Adv Exp Med Biol** 1989;247B:443–8

The effects of diabetes and insulin on colonic tissue kallikrein. Jaffa AA, et al. **Adv Exp Med Biol** 1989;247B:669–73

Decreased proteinase activity in isolated glomeruli of streptozotocin diabetic rats. Teschner M, et al. **Am J Nephrol** 1989;9(6):464–9

Effect of diabetes on glutamine synthetase expression in rat skeletal muscles. Feng B, et al. **Am J Physiol** 1990 May; 258(5 Pt 1):E762–6

Diabetes decreases creatine kinase enzyme activity and mRNA level in the rat heart. Popovich BK, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E573–7

Nutritional and hormonal regulation of the activity state of hepatic branched–chain alpha–keto acid dehydrogenase complex. Harris RA, et al. **Ann N Y Acad Sci** 1989; 573:306–13

Differential regulation of hepatic carbonic anhydrase isozymes in the streptozotocin–diabetic rat. Dodgson SJ, et al. **Arch Biochem Biophys** 1990 Mar;277(2):410–4

Comparison of biochemical properties of liver arginase from streptozocin–induced diabetic and control mice. Spolarics Z, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):426–33

Diabetes–like action of intermittent fasting on sarcoplasmic reticulum Ca2+–pump ATPase and myosin isoenzymes can be prevented by sucrose. Rupp H, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):319–25

Lack of response of (Ca2+ + Mg2+) ATPase to atrial natriuretic peptide in basolateral membranes from kidney cortex of chronic diabetic rats. Sahai A, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):537–44

Studies on regulatory mechanisms of heme biosynthesis in hepatocytes from normal and experimental–diabetic rats. Role of insulin. Cánepa ET, et al. **Biochem Cell Biol** 1990 Jun;68(6):914–21

Measurements of glycolytic flux rate in brown adipocytes. Effects of insulin, noradrenaline and streptozotocin diabetes. Sobrino F, et al. **Biochem Int** 1989 Aug; 19(2):325–32

Induction of cytochrome P450III and P450IV family proteins in streptozotocin–induced diabetes. Barnett CR, et al. **Biochem J** 1990 Jun 15;268(3):765–9

Oral administration of vanadate to streptozotocin–diabetic rats restores the glucose–induced activation of liver glycogen synthase. Bollen M, et al. **Biochem J** 1990 Apr 1;267(1):269–71

Transcriptional regulation of rat liver protein disulphide–isomerase gene by insulin and in diabetes. Nieto A, et al. **Biochem J** 1990 Apr 15;267(2):317–23

The effect of streptozotocin–induced diabetes on phenylalanine hydroxylase expression in rat liver. Taylor DS, et al. **Biochem J** 1989 Nov 15;264(1):185–90

Studies on induction of delta–aminolevulinic acid synthase, ferrochelatase, cytochrome P–450 and cyclic AMP by phenformin. Chlorpropamide, allylisopropylacetamide and lead in hepatocytes from normal and experimental diabetic rats. Cánepa ET, et al. **Biochem Pharmacol** 1990 Jul 15; 40(2):365–72

Kidney sialidase and sialyltransferase activities in

spontaneously and experimentally diabetic rats. Influence of insulin and sorbinil treatments. Cohen-Forterre L, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):507-13

Effect of diabetes, starvation, ethanol and isoniazid on rat liver microsomal 12 alpha-hydroxylase activity involved in bile acid biosynthesis. Hansson R. **Biochem Pharmacol** 1989 Oct 1;38(19):3386-9

Similarities and differences in the regulation of hepatic cytochrome P-450 enzymes by diabetes and fasting in male rats. Ma Q, et al. **Biochem Pharmacol** 1989 Oct 1; 38(19):3179-84

Effect of diabetes and starvation on the activity of rat liver epoxide hydrolases, glutathione S-transferases and peroxisomal beta-oxidation. Thomas H, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4291-7

Phosphorylase phosphatase activities of rat liver in streptozotocin-diabetes. Csortos C, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):235-41

Carbon tetrachloride and the sorbitol pathway in the diabetic mouse. Gaynes BI, et al. **Comp Biochem Physiol [B]** 1989; 94(1):213-7

Erythrocyte glyoxalase activity in genetically obese (ob/ob) and streptozotocin diabetic mice. Atkins TW, et al. **Diabetes Res** 1989 Jul;11(3):125-9

Cardiac myosin isoenzyme shifts in non-insulin treated spontaneously diabetic rats. Baum VC, et al. **Diabetes Res** 1989 Apr;10(4):187-90

Activity and kinetics of liver 6-phosphofructokinase in normal and diabetic rats. Marynissen G, et al. **Diabetes Res** 1989 Nov;12(3):117-22

Effects of vanadate on hepatic cytochrome P-450 expression in streptozotocin-diabetic rats. Donahue BS, et al. **Drug Metab Dispos** 1990 Jul-Aug;18(4):519-26

Physiological and pathophysiological alterations in rat hepatic cytochrome P-450. Schenkman JB, et al. **Drug Metab Rev** 1989;20(2-4):557-84

Diabetic state-induced activation of calcium-activated neutral proteinase in mouse skeletal muscle. Kobayashi S, et al. **Endocrinol Jpn** 1989 Dec;36(6):833-44

Effect of in vivo vanadate treatment on insulin receptor tyrosine kinase activity in partially pancreatectomized diabetic rats. Cordera R, et al. **Endocrinology** 1990 Apr; 126(4):2177-83

Calcium-dependent protein kinase activity is decreased in diabetic rat sciatic nerve. Gabbay RA, et al. **Endocrinology** 1990 Sep;127(3):1194-8

Phosphoenolpyruvate carboxykinase activity patterns in the liver acinus of diabetic and diabetic and estrogen treated rats. Wimmer M. **Histochemistry** 1989;93(1):49-53

Purification of rat intestinal cinnabarinate synthase and its possible role in hyperplasia of the small intestine in diabetic rats. Rajurkar V, et al. **Indian J Biochem Biophys** 1989 Oct;26(5):334-9

Influence of experimental diabetes on the kinetic behaviour of renal cortex hexose monophosphate dehydrogenases. Peragón J, et al. **Int J Biochem** 1989;21(6):689-94

Aldose reductase in early streptozotocin-induced diabetic rat lens. Garadi R, et al. **Invest Ophthalmol Vis Sci** 1989 Nov; 30(11):2370-5

Abnormal insulin receptor tyrosine kinase activity in kidney basolateral membranes from non-insulin-dependent diabetic rats. Grunberger G, et al. **J Lab Clin Med** 1990 Jun;115(6):704-11

Proteinase activity in isolated glomeruli of diabetic and non-diabetic rats. Teschner M, et al. **Kidney Int Suppl** 1989 Nov;27:S55-8

Effects of food restriction and insulin treatment on (Ca2+ + Mg2+)-ATPase response to insulin in kidney basolateral membranes of noninsulin-dependent diabetic rats. Levy J, et al. **Metabolism** 1990 Jan;39(1):25-33

Effects of testosterone and growth hormone treatment on hepatic microsomal P450 expression in the diabetic rat. Thummel KE, et al. **Mol Pharmacol** 1990 Jan;37(1):119-29

Suppression of hepatic levels of an ethanol-inducible P-450DM/j by growth hormone: relationship between the increased level of P-450DM/j and depletion of growth hormone in diabetes. Yamazoe Y, et al. **Mol Pharmacol** 1989 Nov;36(5):716-22

Detection of malondialdehyde levels and superoxide dismutase activities in renal tissues of nonobese diabetic mice [letter] Yaguchi Y, et al. **Nephron** 1990;54(4):368

Hepatic enzyme activities and plasma insulin concentrations in diabetic herbivorous voles. Arai T, et al. **Vet Res Commun** 1989;13(6):421-6

[Studies of enzyme histochemistry and ultrastructure of the myocardium in rats with streptozotocin-induced diabetes] Cai F. **Chung Hua I Hsueh Tsa Chih** 1989 May;69(5):276-8, 20 (Eng. Abstr.) **(Chi)**

[Effect of insulin on aldose reductase activity in the lens of rats with streptozotocin-induced diabetes] Nishigami T. **Nippon Ganka Gakkai Zasshi** 1990 Feb;94(2):128-34 (Eng. Abstr.) **(Jpn)**

[Effects of insulin on maltase and N-acetyl-beta-D-glucosaminidase (NAG) activities of serum and kidney in experimental diabetic rats] Iizuka Y, et al. **Nippon Yakurigaku Zasshi** 1989 Aug;94(2):129-35 (Eng. Abstr.) **(Jpn)**

[Angiotensin converting enzyme in the blood and lungs in experimental diabetes] Huskić J, et al. **Med Arh** 1989; 43(1):41-3 (Eng. Abstr.) **(Scr)**

ETIOLOGY

Depletion of RT6.1+ T lymphocytes alone is insufficient to induce diabetes in diabetes-resistant BB/Wor rats. Like AA. **Am J Pathol** 1990 Mar;136(3):565-74

The pathogenesis of autoimmune diabetes mellitus. Rossini AA, et al. **Curr Opin Immunol** 1989-90 Apr;2(4):598-603 (32 ref.)

Autoantigen (64000-Mr) expression in coxsackievirus B4-induced experimental diabetes. Gerling I, et al. **Curr Top Microbiol Immunol** 1990;156:55-62 (45 ref.)

Effects of rubella virus infection on islet function. Rayfield EJ. **Curr Top Microbiol Immunol** 1990;156:63-74 (43 ref.)

Effect of diet on incidence of diabetes in nonobese diabetic mice. Coleman DL, et al. **Diabetes** 1990 Apr;39(4):432-6

Overt diabetes induced by overeating in neonatally STZ-treated impaired glucose tolerant mice: long-term follow up study. Hasegawa G, et al. **Endocrinol Jpn** 1989 Aug;36(4):471-9

Syngeneic T cell transfer of diabetes into NOD newborn mice: in situ studies of the autoimmune steps leading to insulin-producing cell destruction. Bedossa P, et al. **Eur J Immunol** 1989 Oct;19(10):1947-51

Effect of rearing conditions on encephalomyocarditis (EMC) virus-induced diabetes in mice. Shichinohe K, et al. **Jikken Dobutsu** 1990 Jul;39(3):377-81

[Hypoinsulinemia, hyperglycemia and circulating antibodies to the islet cells during the development of streptozotocin diabetes in rats] Pankov IuA, et al. **Probl Endokrinol (Mosk)** 1990 Mar-Apr;36(2):70-3 (Eng. Abstr.) **(Rus)**

[The significance of an increased protein and fat content in the food ration of rats for the development of stable alloxan diabetes] Ul'ianov AM, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):78-81 (Eng. Abstr.) **(Rus)**

GENETICS

Effect of genetic diabetes and alcohol on tissue carnitine and inositol concentrations in mice. Reddi AS, et al. **Alcohol Alcohol** 1990;25(2-3):137-41

G-protein alpha-subunit mRNAs in diabetic rat tissues. Griffiths SL, et al. **Biochem Soc Trans** 1990 Jun;18(3):475-6

Genetic factors in the development of nephropathy in diabetic Lewis and DA rats. Payton CD, et al. **Clin Sci** 1989 Nov;77(5):521-7

Comparison of DNA breaks in diabetic dogs and galactosemic dogs developing retinopathy. Kern TS, et al. **Curr Eye Res** 1989 Aug;8(8):765-9

Importance of imparied insulin-gene expression in occurrence of diabetes in obese rats. Koh G, et al. **Diabetes** 1990 Sep;39(9):1050-6

Genetic control of diabetogenesis in NOD/Lt mice. Development and analysis of congenic stocks. Prochazka M, et al. **Diabetes** 1989 Nov;38(11):1446-55

Immunogenetic analysis of beta-cell autoimmunity in NOD mice. Relationship of insulitis to T-lymphocyte-receptor beta nod and A beta nod genes. Winter WE, et al. **Diabetes** 1990 Aug;39(8):975-82

Altered islet amyloid polypeptide (amylin) gene expression in rat models of diabetes. Bretherton-Watt D, et al. **Diabetologia** 1989 Dec;32(12):881-3

Genetic analysis of obesity-induced diabetes associated with a limited capacity to synthesize insulin in C57BL/KS mice: evidence for polygenic control. Kaku K, et al. **Diabetologia** 1989 Sep;32(9):636-43

A single major gene controls most of the difference in susceptibility to streptozotocin-induced diabetes between C57BL/6J and C3H/HeJ mice. Kaku K, et al. **Diabetologia** 1989 Oct;32(10):716-23

Susceptibility and resistance genes to insulin-dependent diabetes mellitus in the BB rat. Ono SJ, et al. **Exp Clin Immunogenet** 1989;6(2):169-78

Analysis of interaction between insulin binding and insulin effect on primary culture of normal and db/db mouse hepatocytes. Ueno T, et al. **Gastroenterol Jpn** 1990 Jun; 25(3):369-75

A single recessive non-MHC diabetogenic gene determines the development of insulitis in the presence of an MHC-linked diabetogenic gene in NOD mice. Hattori M, et al. **J Autoimmun** 1990 Feb;3(1):1-10

Major histocompatibility complex-linked diabetogenic gene of the nonobese diabetic mouse. Analysis of genomic DNA amplified by the polymerase chain reaction. Ikegami H, et al. **J Clin Invest** 1990 Jan;85(1):18-24

Genetic profile of alloxan-induced diabetes-susceptible mice (ALS) and-resistant mice (ALR). Sekiguchi F, et al. **Jikken Dobutsu** 1990 Apr;39(2):269-72

Diabetes induced in male transgenic mice by expression of human H-ras oncoprotein in pancreatic beta cells. Efrat S, et al. **Mol Cell Biol** 1990 Apr;10(4):1779-83

Epidermal growth factor deficiency associated with diabetes mellitus. Kasayama S, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7644-8

Diabetogenic response to streptozotocin varies among obese yellow and among lean agouti (BALB/c x VY)F1 hybrid mice. Wolff GL, et al. **Proc Soc Exp Biol Med** 1990 Feb; 193(2):155-63

IMMUNOLOGY

The expression of influenza virus hemagglutinin in the pancreatic beta cells of transgenic mice results in autoimmune diabetes. Roman LM, et al. **Cell** 1990 May 4;61(3):383-96

The presence of splenic T cells specific for islet cell antigens in nonobese diabetic mice. Nagata M, et al. **Clin Immunol Immunopathol** 1989 Nov;53(2 Pt 1):171-80

Inflammatory destruction of pancreatic beta cells in gamma-interferon transgenic mice. Sarvetnick N, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 2:837-42

Transgenic models of diabetes. Sarvetnick N. **Curr Opin Immunol** 1989-90 Apr;2(4):604-6 (5 ref.)

Monoclonal (auto)antibodies in insulin-dependent diabetes mellitus. Madsen OD, et al. **Curr Top Microbiol Immunol** 1990;156:75-86 (85 ref.)

Autoimmune destruction of islets transplanted into RT6-depleted diabetes-resistant BB/Wor rats. Gottlieb PA, et al. **Diabetes** 1990 May;39(5):643-5

Impaired mitogen-induced expression of high-affinity interleukin 2 receptors on spleen cells from NOD/Shi/Kbe mice. Hatamori N, et al. **Diabetes** 1990 Sep;39(9):1070-8

Recognition of common islet antigen by autoantibodies from NOD mice and humans with IDDM. Karounos DG, et al. **Diabetes** 1990 Sep;39(9):1085-90

Fish oil-enriched diet and reduction of low-dose streptozocin-induced hyperglycemia. Inhibition of macrophage activation. Linn T, et al. **Diabetes** 1989 Nov; 38(11):1402-11

Adoptive transfer of diabetes in BB rats induced by CD4 T lymphocytes. Métroz-Dayer MD, et al. **Diabetes** 1990 Aug;39(8):928-32

Macrophage-mediated islet cell cytotoxicity in BB rats. Nagy MV, et al. **Diabetes** 1989 Oct;38(10):1329-31

Prevention of diabetes in NOD mice by injection of autoreactive T-lymphocytes. Reich EP, et al. **Diabetes** 1989 Dec;38(12):1647-51

Increased levels of circulating immune complexes are not associated with diabetes in BB rats. Contreas G, et al. **Diabetes Res** 1989 Mar;10(3):109-13

Insulin autoantibodies in mouse models of insulin-dependent diabetes. Maruyama T, et al. **Diabetes Res** 1989 Jun; 11(2):61-5

A cytotoxic monoclonal autoantibody from the BB rat which binds an islet cell surface protein. Tanguay KE, et al. **Diabetes Res Clin Pract** 1990 Jan;8(1):23-8

Effects of ganglioside (Cronassial) treatment on MHC Ia antigen expression and allograft survival of pancreatic islets in diabetic rats. Bretzel RG, et al. **Diabetologia** 1990 Feb; 33(2):112-4

B cell-adherent splenocytes precede the onset of diabetes in low-dose streptozotocin-treated mice. Feve B, et al. **Diabetologia** 1990 Jan;33(1):9-14

Transplantation analysis of B cell destruction in (NOD x CBA)F1 mouse bone marrow chimeras. Serreze DV, et al. **Diabetologia** 1990 Feb;33(2):84-92

Transfected rat islet tumour cells express mouse major histocompatibility complex class I antigens functionally. Applicable as "pseudo-syngeneic" targets in the multiple low-dose streptozotocin diabetes model. Serup P, et al. **Diabetologia** 1989 Jul;32(7):409-15

Paradoxical lessening of autoimmune processes in non-obese diabetic mice after infection with the diabetogenic variant of encephalomyocarditis virus. Hermitte L, et al. **Eur J Immunol** 1990 Jun;20(6):1297-303

Survival of islet isografts despite cytotoxicity against pancreatic islets measured in vitro. Ziegler B, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):31-8

Ultrastructural distribution of endogenous IgGs in the glomerular wall of control and diabetic rats. Desjardins M, et al. **Histochem J** 1989 Dec;21(12):731-42

Control of diabetes in NOD mice by suppressor cells. Bach JF, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:97-100 (16 ref.)

The involvement of Ly2+ T cells in beta cell destruction. Hutchings PR, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:101-9

The nonobese diabetic mouse model. Independent expression of humoral and cell-mediated autoimmune features. Lehuen A, et al. **J Immunol** 1990 Mar 15;144(6):2147-51

Abnormal thymocyte maturation in spontaneously diabetic BB rats involves the deletion of CD4-8+ cells. Plamondon C, et al. **J Immunol** 1990 Feb 1;144(3):923-8

In vivo expression of perforin by CD8+ lymphocytes in autoimmune disease. Studies on spontaneous and adoptively transferred diabetes in nonobese diabetic mice. Young LH, et al. **J Immunol** 1989 Dec 15;143(12):3994-9

Evaluation of virus neutralization antibody levels in diabetic mutant mice. Loria RM, et al. **J Virol Methods** 1990 Jun; 28(3):235-44

Identification of the 64K autoantigen in insulin-dependent diabetes as the GABA-synthesizing enzyme glutamic acid decarboxylase. Baekkeskov S, et al. **Nature** 1990 Sep 13; 347(6289):151-6

Prevention of insulin-dependent diabetes mellitus in non-obese diabetic mice by transgenes encoding modified I-A beta-chain or normal I-E alpha-chain [see comments] Lund T, et al. **Nature** 1990 Jun 21;345(6277):727-9 Comment in: Nature 1990 Jun 21;345(6277):662-3.

Direct evidence for the contribution of the unique I-ANOD to the development of insulitis in non-obese diabetic mice [see comments] Miyazaki T, et al. **Nature** 1990 Jun 21; 345(6277):722-4 Comment in: Nature 1990 Jun 21;345(6277):662-3.

An explanation for the protective effect of the MHC class II I-E molecule in murine diabetes. Reich EP, et al. **Nature** 1989 Sep 28;341(6240):326-8

Prevention of diabetes in non-obese diabetic I-Ak transgenic mice [see comments] Slattery RM, et al. **Nature** 1990 Jun 21;345(6277):724-6 Comment in: Nature 1990 Jun 21;345(6277):662-3.

Induction and therapy of autoimmune diabetes in the non-obese diabetic (NOD/Lt) mouse by a 65-kDa heat shock protein. Elias D, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1576-80

Autologous CD4 T-cell responses to ectopic class II major histocompatibility complex antigen-expressing single-cell islet cells: an in vitro insight into the pathogenesis of lymphocytic insulitis in nonobese diabetic mice. Formby B, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2438-42

Pancreatic islet-specific T-cell clones from nonobese diabetic mice. Haskins K, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8000-4

Genes encoding tumor necrosis factor alpha and granzyme A are expressed during development of autoimmune diabetes. Held W, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2239-43

MHC-linked protection from diabetes dissociated from clonal deletion of T cells. Böhme J, et al. **Science** 1990 Jul 20;249(4966):293-5

Acceleration of diabetes in young NOD mice with a CD4+ islet-specific T cell clone. Haskins K, et al. **Science** 1990 Sep 21;249(4975):1433-6

Prothymocyte development in diabetes-prone BB rats: description of a defect that predisposes to immune abnormalities. Greiner DL, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):976-8

Analyses of development of insulitogenic T lymphocytes in NOD mice by transplantation of bone marrow, thymus, and pancreas. Ida T, et al. **Transplantation** 1990 May; 49(5):976-82

[Interleukin-2 modifies the development of insulin-dependent diabetes of BB rats] Zielasek J, et al. **Immun Infekt** 1990 Apr;18(2):55-6 (Eng. Abstr.) **(Ger)**

METABOLISM

Renal calcium and magnesium handling in experimental diabetes mellitus in the rat. Anwana AB, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):479-86

Early changes in thyroid hormone metabolism in the heart, liver, and brown adipose tissue during the induction of low T3 syndrome in streptozotocin-diabetic rats. Bjørn-Hansen Gøtzsche LS, et al. **Acta Endocrinol (Copenh)** 1990 Jul; 123(1):67-71

Kidney tissue insulin-like growth factor I and initial renal growth in diabetic rats: relation to severity of diabetes. Flyvbjerg A, et al. **Acta Endocrinol (Copenh)** 1990 Mar; 122(3):374-8

Decreased glucagon binding and glucagon-stimulated lipolysis in adipocytes from streptozotocin-diabetic rats. Sato N, et al. **Acta Endocrinol (Copenh)** 1989 Nov; 121(5):705-13

Glucose phosphorylation rate in rat parietal cortex during normoglycemia, hypoglycemia, acute hyperglycemia, and in diabetes-prone rats. Brøndsted HE, et al. **Acta Neurol Scand** 1990 Mar;81(3):233-6

Histamine metabolism in diabetic rats. Fogel WA, et al. **Agents Actions** 1990 Apr;30(1-2):243-6

Validation of two-pool model for in vivo ketone body kinetics. Bailey JW, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E850-5

Impaired insulin action but normal insulin receptor activity in diabetic rat liver: effect of vanadate. Blondel O, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):E459-67

Adrenergic denervation in rabbits with diabetes mellitus. Cohen RA, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H55-61

In vivo somatostatin, vasopressin, and oxytocin synthesis in diabetic rat hypothalamus. Fernstrom JD, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E661-6

Influences of thyroid status and sympathoadrenal system on extrarenal potassium disposal. Kubota K, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):E428-35

Measurement of myocardial glycogen synthesis in diabetic and fasted rats. Laughlin MR, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E184-90

Permeability changes at blood-retinal barrier in diabetes and effect of aldose reductase inhibition. Lightman S, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R601-5

Na(+)-H+ exchange in cardiac sarcolemmal vesicles isolated from diabetic rats. Pierce GN, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):H255-61

Modeling cortical cataractogenesis: IX. Activity of vitamin E and esters in preventing cataracts and gamma-crystallin leakage from lenses in diabetic rats. Trevithick JR, et al. **Ann N Y Acad Sci** 1989;570:358-71

Possible role of thyroid hormone in decreased somatomedin-C levels in diabetic and starved rats. Ikeda T, et al. **Ann Nutr Metab** 1990;34(1):8-12

Streptozotocin-induced alterations in the levels of functional mitochondrial anion transport proteins. Kaplan RS, et al. **Arch Biochem Biophys** 1990 Jul;280(1):181-91

Histochemical studies on the conduction system of diabetic rat hearts. Kuroda A, et al. **Arch Histol Cytol** 1990 May; 53(2):193-8

Effect of dietary fructose on triglyceride turnover in streptozotocin-diabetic rats. Yoshino G, et al. **Atherosclerosis** 1989 Sep;79(1):41-6

Blood-brain barrier glucose transporter mRNA is increased in experimental diabetes mellitus. Choi TB, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):375-80

Expression of calmodulin gene is down-regulated in diabetic BB rats. Solomon SS, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):1007-12

Studies on regulatory mechanisms of heme biosynthesis in hepatocytes from normal and experimental-diabetic rats. Role of cAMP. Cánepa ET, et al. **Biochem Cell Biol** 1989 Nov-Dec;67(11-12):731-8

Spatially resolved changes in diabetic rat skeletal muscle metabolism in vivo studied by 31P-n.m.r. spectroscopy. Challiss RA, et al. **Biochem J** 1990 May 15;268(1):111-5

A 13C-n.m.r. investigation of the metabolism of amino acids in renal proximal convoluted tubules of normal and streptozotocin-treated rats and rabbits. Jans AW, et al. **Biochem J** 1989 Oct 1;263(1):231-41

Diabetes abolishes the GTP-dependent, but not the receptor-dependent inhibitory function of the inhibitory guanine-nucleotide-binding regulatory protein (Gi) on adipocyte adenylate cyclase activity. Strassheim D, et al. **Biochem J** 1990 Mar 1;266(2):521-6

High-performance liquid chromatographic analysis of lung phospholipids and their precursors in the offspring of diabetic rats. Boehme DS, et al. **Biochem Med Metab Biol** 1990 Aug;44(1):29-36

The effect of streptozotocin-induced diabetes on the in vivo acetylation capacity and the in vitro blood N-acetyltransferase activity of the adult male Sprague-Dawley rat. Lindsay RM, et al. **Biochem Pharmacol** 1990 Apr 1;39(7):1193-7

Sites of metformin-stimulated glucose metabolism. Wilcock C, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1831-4

Insulinopaenia increases 3-hydroxy-3-methylglutaryl-coenzyme A reductase levels in intestinal cells. Moore UM, et al. **Biochem Soc Trans** 1990 Apr;18(2):321-2

Defective sarcolemmal phosphorylation associated with noninsulin-dependent diabetes. Allo SN, et al. **Biochim Biophys Acta** 1990 Apr 13;1023(2):206-12

Identification of furoyl-containing advanced glycation products in collagen samples from diabetic and healthy rats. Lapolla A, et al. **Biochim Biophys Acta** 1990 Jan 29; 1033(1):13-8

Enzyme site-specific changes in hepatic microsomal fatty acid chain elongation in streptozotocin-induced diabetic rats. Suneja SK, et al. **Biochim Biophys Acta** 1990 Jan 16; 1042(1):81-5

Glucose oxidation rates in fatty acid-perfused isolated working hearts from diabetic rats. Wall SR, et al. **Biochim Biophys Acta** 1989 Nov 6;1006(1):97-103

Decreased D-glucose transport across renal brush-border membrane vesicles from streptozotocin-induced diabetic rats. Yasuda H, et al. **Biochim Biophys Acta** 1990 Jan 29; 1021(2):114-8

Influence of an alpha-1-adrenoceptor antagonist, nicergoline, on placental prostanoid production in streptozotocin-induced diabetic pregnant rats. Chartrel N, et al. **Biol Neonate** 1990;57(3-4):218-23

Diabetes is not associated with a change in the elemental composition of the pancreatic B cell in diabetic C57BL KsJ-db/db mice. Juntti-Berggren L, et al. **Biosci Rep** 1990 Apr;10(2):217-23

Calcium metabolism of rats with varying degrees of insulinopenia. Locatto ME, et al. **Bone Miner** 1990 Feb; 8(2):119-30

Streptozotocin-induced diabetes reduces the density of [125I]-endothelin-binding sites in rat cardiac membranes. Nayler WG, et al. **Br J Pharmacol** 1989 Aug;97(4):993-5

Characterization of glucagon-like peptide-1-(7-36)amide in the hypothalamus. Kreymann B, et al. **Brain Res** 1989 Nov 20;502(2):325-31

Age- and diabetes-associated alterations in regional brain norepinephrine concentrations and adrenergic receptor populations in C57BL/KsJ mice. Garris DR. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):161-6

Myocardial and metabolic abnormalities in streptozotocin-diabetic Wistar and Wistar-Kyoto rats. Ramanadham S, et al. **Can J Cardiol** 1990 Mar;6(2):75-82

Adaptation of small intestinal membrane transport processes during diabetes mellitus in rats. Fedorak RN. **Can J Physiol Pharmacol** 1990 May;68(5):630-5 (55 ref.)

Effects of in vivo and in vitro treatment with L-carnitine on isolated hearts from chronically diabetic rats. Rodrigues B, et al. **Can J Physiol Pharmacol** 1990 Aug;68(8):1085-92

Altered release of growth hormone from dispersed adenohypophysial cells of streptozotocin diabetic rats. I. Effects of growth hormone releasing factor and somatostatin. Sheppard MS, et al. **Can J Physiol Pharmacol** 1989 Oct;67(10):1315-20

Altered release of growth hormone from dispersed adenohypophysial cells of streptozotocin diabetic rats. II. Effects of a phorbol ester and secretagogues which increase cyclic AMP. Sheppard MS, et al. **Can J Physiol Pharmacol** 1989 Oct;67(10):1321-5

Functional implications of decreased renal cortical atrial natriuretic peptide binding in experimental diabetes. Benigni A, et al. **Circ Res** 1990 Jun;66(6):1453-60

Glomerular and urinary glycosaminoglycans in diabetic rats. Reddi AS. **Clin Chim Acta** 1990 Aug 15;189(2):211-20

Increased hexokinase/glucose-6-phosphatase ratio in the diabetic kidney as index of glucose overutilization. Belfiore F, et al. **Clin Physiol Biochem** 1989;7(5):223-8

The fate of gamma L crystallins in rat lens during diabetic cataractogenesis as determined by a monoclonal antibody. Swamy MS, et al. **Curr Eye Res** 1989 Oct;8(10):989-96

Insulin prevention of altered muscarinic receptor-G protein coupling in diabetic rat atria. Aronstam RS, et al. **Diabetes** 1989 Dec;38(12):1611-6

Effect of puberty on initial kidney growth and rise in kidney IGF-I in diabetic rats. Bach LA, et al. **Diabetes** 1990 May; 39(5):557-62

Functional and morphological aspects of impaired TRH release by mediobasal hypothalamus of STZ-induced diabetic rats. Bestetti GE, et al. **Diabetes** 1989 Nov; 38(11):1351-6

Correction of altered metabolic activities in sciatic nerves of streptozocin-induced diabetic rats. Effect of ganglioside treatment. Bianchi R, et al. **Diabetes** 1990 Jul;39(7):782-8

Vanadate induction of pancreatic amylase mRNA in diabetic rats. Johnson TM, et al. **Diabetes** 1990 Jun;39(6):757-9

Effect of insulin on glucose utilization in epitrochlearis muscle of rats with streptozocin-induced NIDDM. Karl IE, et al. **Diabetes** 1990 Sep;39(9):1106-15

Glucose cycling in islets from healthy and diabetic rats. Khan A, et al. **Diabetes** 1990 Apr;39(4):456-9

Increase in [3H]PN 200-110 binding to cardiac muscle membrane in streptozocin-induced diabetic rats. Nishio Y, et al. **Diabetes** 1990 Sep;39(9):1064-9

Decreased VIP content in peripheral nerve from streptozocin-induced diabetic rats. Noda K, et al. **Diabetes** 1990 May;39(5):608-12

Increased liver glucose-transporter protein and mRNA in streptozocin-induced diabetic rats. Oka Y, et al. **Diabetes** 1990 Apr;39(4):441-6

Cholesterol metabolism in alloxan-induced diabetic rabbits. O'Meara NM, et al. **Diabetes** 1990 May;39(5):626-33

Downregulation of blood-brain barrier glucose transporter in experimental diabetes. Pardridge WM, et al. **Diabetes** 1990 Sep;39(9):1040-4

Long-term effects of vanadyl treatment on streptozocin-induced diabetes in rats. Pederson RA, et al. **Diabetes** 1989 Nov;38(11):1390-5

Insulinlike effects of vanadate on hepatic glycogen metabolism in nondiabetic and streptozocin-induced diabetic rats. Pugazhenthi S, et al. **Diabetes** 1990 Jul; 39(7):821-7

Effect of streptozocin-induced diabetes on insulin-receptor tyrosine kinase activity in obese Zucker rats. Slieker LJ, et al. **Diabetes** 1990 May;39(5):619-25

Effects of maternal diabetes on placental transfer of glucose in rats. Thomas CR, et al. **Diabetes** 1990 Mar;39(3):276-82

Differential regulation of two glucose transporters in rat liver by fasting and refeeding and by diabetes and insulin treatment. Thorens B, et al. **Diabetes** 1990 Jun;39(6):712-9

Insulin and glucagon secretion in streptozotocin-diabetic rats: influences of islets transplanted to the renal subcapsular space. Ar'Rajab A, et al. **Diabetes Res** 1989 Sep;12(1):37-41

Antioxidant enzyme status and lipid peroxidation in various tissues of diabetic and starved rats. Asayama K, et al. **Diabetes Res** 1989 Oct;12(2):85-91

The diabetic heart: a porcine model evaluated with positron emission tomography using 1-11C-palmitate and 3-11C-pyruvate. Hartvig P, et al. **Diabetes Res** 1989 Sep; 12(1):1-5

Effects of streptozotocin-induced diabetes on glucose utilization that was stimulated by various agents in rat thymocytes. Hosokawa K, et al. **Diabetes Res** 1989 Sep; 12(1):43-6

Modulation of arachidonic acid metabolism has limited effects on the development of type I diabetes in animal models. Schmidt M, et al. **Diabetes Res** 1989 Dec; 12(4):161-4

Diabetic state-induced regulation of glucose uptake to skeletal muscle by insulin: a possible mechanism of its enhancement and autoinhibition. Kobayashi S, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S11-3

Changes on levels of B6 vitamin and aminotransferase in the liver of diabetic animals. Nanbara S, et al. **Diabetes Res Clin Pract** 1990 May-Jun;9(2):109-14

The effect of ovarian function on insulin-like growth factor I plasma levels and hepatic IGF-I mRNA levels in diabetic rats treated with insulin. Rogers DG, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):235-42

Lens protein glycation and the subsequent degree of opacity in streptozotocin-diabetic rats. Yano M, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):259-62

Liver microsomal delta 6 and delta 5 linoleic acid desaturation in female BB rats. Chanussot B, et al. **Diabetologia** 1989 Nov;32(11):786-91

Increase in electrically-stimulated Ca2+ release and suppression of caffeine response in diaphragm muscle of alloxan-diabetic mice compared with the denervation effect. Kimura I, et al. **Diabetologia** 1990 Feb;33(2):72-6

Glycosaminoglycans in urine, articular and periarticular tissues in streptozotocin diabetes in rats. Mavrikakis ME, et al. **Endocrinol Exp** 1989 Dec;23(4):295-304

Diabetic state-induced modification of Ca, Mg, Fe and Zn content of skeletal, cardiac and smooth muscles. Nakagawa M, et al. **Endocrinol Jpn** 1989 Dec;36(6):795-807

Effects of streptozotocin-induced diabetes on glucose transport in skeletal muscle. Barnard RJ, et al. **Endocrinology** 1990 Apr;126(4):1921-6

Antilipolytic action of insulin in adipocytes from starved and diabetic rats during adenosine-controlled incubations. Koopmans SJ, et al. **Endocrinology** 1989 Dec;

125(6):3044–50
Insulin–like growth factor–I and –II messenger RNA expression in muscle, heart, and liver of streptozotocin–diabetic swine. Leaman DW, et al. **Endocrinology** 1990 Jun;126(6):2850–7
Altered pituitary growth hormone (GH) regulation in streptozotocin–diabetic rats: a combined defect of hypothalamic somatostatin and GH–releasing factor. Olchovsky D, et al. **Endocrinology** 1990 Jan;126(1):53–61
Paradoxical reduction in pancreatic glucagon with normalization of somatostatin and decrease in insulin in normoglycemic alloxan–diabetic dogs: a putative mechanism of glucagon irresponsiveness to hypoglycemia. Rastogi KS, et al. **Endocrinology** 1990 Feb;126(2):1096–104
Neuropeptide–Y concentration in microdissected hypothalamic regions and in vitro release from the medial basal hypothalamus–preoptic area of streptozotocin–diabetic rats with and without insulin substitution therapy. Sahu A, et al. **Endocrinology** 1990 Jan; 126(1):192–8
Growth hormone receptors are up–regulated in diabetic adipocytes. Solomon SS, et al. **Endocrinology** 1990 Sep; 127(3):1544–6
Vanadate treatment of streptozotocin diabetic rats restores expression of the insulin–responsive glucose transporter in skeletal muscle. Strout HV, et al. **Endocrinology** 1990 May; 126(5):2728–32
Effect of diabetes on hormone–stimulated and basal hepatocyte calcium metabolism. Studer RK, et al. **Endocrinology** 1989 Nov;125(5):2421–33
Increased hypothalamic content of preproneuropeptide–Y messenger ribonucleic acid in streptozotocin–diabetic rats. White JD, et al. **Endocrinology** 1990 Feb;126(2):765–72
Further studies on the role of glycogenin in glycogen biosynthesis. Smythe C, et al. **Eur J Biochem** 1990 Apr 20;189(1):199–204
Autoradiographic localization of Na(+)–dependent L–valine uptake by the jejunum of streptozotocin–diabetic rats. Debnam ES, et al. **Eur J Clin Invest** 1990 Feb;20(1):61–5
Cyclosporine pharmacokinetics and effect in the type I diabetic rat model. Brunner LJ, et al. **Eur J Drug Metab Pharmacokinet** 1989 Oct–Dec; 14(4):287–92
Functional changes in potassium channels in aortas from rats with streptozotocin–induced diabetes. Kamata K, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):319–23
Fibronectin content of the annulus fibrosus in diabetic and non–diabetic sand rats. Silberberg R, et al. **Exp Cell Biol** 1989;57(5):229–32
Age–related changes in fibronectin in annulus fibrosus of the sand rat (Psammomys obesus). Silberberg R, et al. **Exp Cell Biol** 1989;57(5):233–7
Whole body glucose metabolism in experimental insulin–dependent diabetes after initiation or termination of insulin administration. Fischer U, et al. **Exp Clin Endocrinol** 1989;94(3):363–74
Dopamine receptor in the streptozotocin–induced diabetic rats. Shimizu H, et al. **Exp Clin Endocrinol** 1990 Apr; 95(2):263–6
Modelling cortical cataractogenesis. XI. Vitamin C reduces gamma–crystallin leakage from lenses in diabetic rats. Linklater HA, et al. **Exp Eye Res** 1990 Sep;51(3):241–7
Effects of long–term diabetes and galactosaemia upon lens and retinal mRNA levels in the rat. Poulsom R, et al. **Exp Eye Res** 1990 Jul;51(1):27–32
Lens redox fluorometry: pyridine nucleotide fluorescence and analysis of diabetic lens. Tsubota K, et al. **Exp Eye Res** 1989 Sep;49(3):321–34
Effect of chemically induced diabetes mellitus on glutamine transport in rat intestine. Van Voorhis K, et al. **Gastroenterology** 1990 Apr;98(4):862–6
Omega–3 fatty acid treatment fails to alter alpha 1–adrenergic receptor mediated phosphoinositide turnover in streptozotocin–induced diabetic rats. Xiang H, et al. **Gen Pharmacol** 1990;21(4):483–8
Calcium uptake activity of cardiac sarcoplasmic reticulum in myo–inositol–treated diabetic rats. Xiang H, et al. **Gen Pharmacol** 1990;21(2):251–4
Effects of streptozotocin diabetes in the rat on blood levels of ten specific plasma proteins and on their net biosynthesis by the isolated perfused liver. Miller LL, et al. **Hepatology** 1990 Apr;11(4):635–45
Progesterone production and release in cultured placental tissue from diabetic and normal rats fed high calcium [letter] Reizins SM, et al. **In Vitro Cell Dev Biol** 1989 Nov; 25(11):978–9
The effect of dietary fat content and composition on adipocyte lipids in normal and diabetic states. Field CJ, et al. **Int J Obes** 1989;13(6):747–56
Subcutaneous implantation of hydroxylapatite/collagen in induced diabetic and non–diabetic rats. el Deeb M, et al. **Int J Oral Maxillofac Surg** 1990 Apr;19(2):113–9
Respiratory burst in alveolar macrophages of diabetic rats. Mohsenin V, et al. **J Appl Physiol** 1990 Jun;68(6):2384–90
Changes in solubility, non–enzymatic glycation, and fluorescence of collagen in tail tendons from diabetic rats. Brennan M. **J Biol Chem** 1989 Dec 15;264(35):20947–52
Changes in the cross–linking of collagen from rat tail tendons due to diabetes. Brennan M. **J Biol Chem** 1989 Dec 15; 264(35):20953–60
Diet fat composition alters membrane phospholipid composition, insulin binding, and glucose metabolism in adipocytes from control and diabetic animals. Field CJ, et al. **J Biol Chem** 1990 Jul 5;265(19):11143–50
Insulin short–term control of rat liver alpha 2–microglobulin gene transcription. Mira E, et al. **J Biol Chem** 1989 Oct 25;264(30):18209–12
Progressive increases in luminal glucose stimulate proximal sodium absorption in normal and diabetic rats. Bank N, et al. **J Clin Invest** 1990 Jul;86(1):309–16
A defect in sodium–dependent amino acid uptake in diabetic rabbit peripheral nerve. Correction by an aldose reductase inhibitor or myo–inositol administration. Greene DA, et al. **J Clin Invest** 1990 May;85(5):1657–65
Hepatic protein phosphotyrosine phosphatase. Dephosphorylation of insulin and epidermal growth factor receptors in normal and alloxan diabetic rats. Gruppuso PA, et al. **J Clin Invest** 1990 Jun;85(6):1754–60
Amylin secretion from the rat pancreas and its selective loss after streptozotocin treatment. Ogawa A, et al. **J Clin Invest** 1990 Mar;85(3):973–6
Alterations in phospholipid N–methylation of cardiac subcellular membranes due to experimentally induced diabetes in rats. Panagia V, et al. **J Clin Invest** 1990 Sep; 86(3):777–84
Relative contribution of glycogen synthesis and glycolysis to insulin–mediated glucose uptake. A dose–response euglycemic clamp study in normal and diabetic rats. Rossetti L, et al. **J Clin Invest** 1990 Jun;85(6):1785–92
Effects of diabetes and insulin on alpha–amylase messenger RNA levels in rat parotid glands. Kim SK, et al. **J Dent Res** 1990 Aug;69(8):1500–4
No influence of an aldose reductase inhibitor on glycogen deposition in tubules from streptozotocin diabetic rats. Rasch R, et al. **J Diabetic Complications** 1989 Oct–Dec; 3(4):198–201
Regulation of insulin–like growth factor–I and growth hormone receptor gene expression by diabetes and nutritional state in rat tissues. Bornfeldt KE, et al. **J Endocrinol** 1989 Sep;122(3):651–6
Osmoregulation of vasopressin secretion in the insulin–withdrawn streptozotocin–treated diabetic rat. Charlton JA, et al. **J Endocrinol** 1989 Dec;123(3):413–9
Diabetes mellitus and the sodium electrochemical gradient across the brush border membrane of rat intestinal enterocytes. Debnam ES, et al. **J Endocrinol** 1989 Dec; 123(3):453–9
Effect of acute insulin administration on biliary lipid secretion by the diabetic rat. Villanueva GR, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):89–94
Ultrastructural localization of blood–retinal barrier breakdown in diabetic and galactosemic rats. Vinores SA, et al. **J Histochem Cytochem** 1990 Sep;38(9):1341–52
Pharmacokinetics, tissue distribution, and toxicity of free and liposomal amphotericin B in diabetic rats. Wasan KM, et al. **J Infect Dis** 1990 Mar;161(3):562–6
Streptozotocin–induced diabetes is not a model for methylmalonic acidaemia. Bailey LB, et al. **J Inherited Metab Dis** 1989;12(4):429–35
Effects of glipizide on beta–endorphin concentration in the brain of genetically diabetic (db/db) mice. Belon JP, et al. **J Int Med Res** 1989 Sep–Oct;17(5):467–72
High–protein feeding stimulates renal thromboxane production in rats with streptozotocin–induced diabetes. Collins DM, et al. **J Lab Clin Med** 1989 Nov;114(5):545–53
Antioxidant treatment of diabetic rats inhibits lipoprotein oxidation and cytotoxicity. Morel DW, et al. **J Lipid Res** 1989 Dec;30(12):1827–34
Metabolism of pantothenic acid in hearts of diabetic rats. Beinlich CJ, et al. **J Mol Cell Cardiol** 1989 Jul;21(7):641–9
Myocardial metabolism of pantothenic acid in chronically diabetic rats. Beinlich CJ, et al. **J Mol Cell Cardiol** 1990 Mar;22(3):323–32
The effect of ginsenoside–Rb2 on nitrogen balance. Yokozawa T, et al. **J Nat Prod** 1989 Nov–Dec;52(6):1350–2
Regionally–specific alterations in mesotelencephalic dopamine synthesis in diabetic rats: association with precursor tyrosine. Bradberry CW, et al. **J Neural Transm Gen Sect** 1989;78(3):221–9
Effect of long–lasting diabetes mellitus on rat and human brain monoamines. Lacković Z, et al. **J Neurochem** 1990 Jan;54(1):143–7
1,2–diacylglycerol content and its arachidonyl–containing molecular species are reduced in sciatic nerve from streptozotocin–induced diabetic rats. Zhu X, et al. **J Neurochem** 1990 Sep;55(3):1087–90
Polypeptide and glycoprotein abnormalities in dorsal root ganglia of streptozotocin–diabetic rats. Schapira AH, et al. **J Neurol Sci** 1989 Dec;94(1–3):147–61
Denervation and hyperinnervation in the nervous system of diabetic animals: III. Functional alterations of G proteins in diabetic encephalopathy. Abbracchio MP, et al. **J Neurosci Res** 1989 Dec;24(4):517–23
Denervation and hyperinnervation in the nervous system of diabetic animals. I. The autonomic neuronal dystrophy of the gut. Di Giulio AM, et al. **J Neurosci Res** 1989 Nov; 24(3):355–61
Denervation and hyperinnervation in the nervous system of diabetic animals. II. Monoaminergic and peptidergic alterations in the diabetic encephalopathy. Di Giulio AM, et al. **J Neurosci Res** 1989 Nov;24(3):362–8
Endogenous levels of nerve growth factor (NGF) are altered in experimental diabetes mellitus: a possible role for NGF in the pathogenesis of diabetic neuropathy. Hellweg R, et al. **J Neurosci Res** 1990 Jun;26(2):258–67
The effect of acarbose and miglitol (BAY–M–1099) on postprandial glucose levels following ingestion of various sources of starch by nondiabetic and streptozotocin–induced diabetic rats. Madar Z. **J Nutr** 1989 Dec;119(12):2023–9
EGF increases short–term type I collagen accumulation during wound healing in diabetic rats. Hennessey PJ, et al. **J Pediatr Surg** 1990 Aug;25(8):893–7
Pharmacokinetic study of tempo carboxylic acid, a nitroxyl MRI contrast media, in control and streptozocin diabetic rats. Michel A, et al. **J Pharm Pharmacol** 1989 Aug; 41(8):561–3
Diabetes–related changes in brain beta adrenoreceptors in rats as assessed by quantitative autoradiography: relationship to hypothalamic norepinephrine metabolism and pituitary–gonadal hormone secretion. Bitar MS, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):781–5
Increased muscarinic responsiveness and decreased muscarinic receptor content in ileal smooth muscle in diabetes. Carrier GO, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):445–9
Vascular contraction induced by activation of membrane calcium ion channels is enhanced in streptozotocin–diabetes. White RE, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1057–62
Diabetes mellitus and sugar transport across the brush–border and basolateral membranes of rat jejunal enterocytes. Debnam ES, et al. **J Physiol (Lond)** 1990 May;424:13–25
Changes in insulin receptors on methylcholanthrene–induced sarcoma during growth. Wagman LD, et al. **J Surg Res** 1990 May;48(5):435–9
Effects of calcium channel blockers and hydralazine on plasma glucose levels in streptozotocin–induced diabetic rats in vivo. Sunaga K, et al. **Jpn J Pharmacol** 1990 Mar; 52(3):449–55
Epidermal growth factor in serum, urine, submandibular glands and kidneys of diabetic mice. Hwang DL, et al. **Life Sci** 1990;47(8):679–85
The effect of diabetes mellitus on aortic prostanoid synthesis and serum cholesterol levels in the rat fed a high cholesterol diet. Myers SI, et al. **Life Sci** 1990;47(6):587–94
Sorbitol accumulation in heart: implication for diabetic cardiomyopathy. Nakada T, et al. **Life Sci** 1989; 45(25):2491–3
Elevated levels of nonesterified fatty acids in the myocardium of alloxan diabetic rats. Chattopadhyay J, et al. **Lipids** 1990 Jun;25(6):307–10
Effects of dietary fats on fatty acid composition and delta 5 desaturase in normal and diabetic rats. Dang AQ, et al. **Lipids** 1989 Oct;24(10):882–9
Effect of eicosapentaenoic acid ethyl ester on proteinuria of streptozotocin–induced diabetes mellitus in rats. Fujikawa M, et al. **Lipids** 1989 Sep;24(9):765–8
Myocardial disorders caused by magnesium deficiency in diabetic KK mice. Nagase N, et al. **Magnesium** 1989; 8(5–6):307–15
Correction of altered collagen metabolism in diabetic animals with insulin therapy. Umpierrez GE, et al. **Matrix** 1989 Aug;9(4):336–42
Nerve glucose, sorbitol, fructose, and myo–inositol at various time after feeding in streptozotocin–induced diabetes in rats. Dyck PJ, et al. **Mayo Clin Proc** 1989 Aug;64(8):905–10
Nutrition and somatomedin. XXI. Insulin–like growth factor–I and somatomedin inhibitor in streptozotocin–diabetic rats: relation to ketogenesis and gluconeogenesis. Gagliardi AR, et al. **Metabolism** 1990 Jan; 39(1):75–80
Histamine synthesis and catabolism in various tissues in diabetic rats. Gill DS, et al. **Metabolism** 1990 Aug; 39(8):815–8
Sustained prevention of myocardial and metabolic abnormalities in diabetic rats following withdrawal from oral vanadyl treatment. Ramanadham S, et al. **Metabolism** 1989 Oct;38(10):1022–8
The effect of insulin deficiency on the metabolism of lipid emulsion models of triacylglycerol–rich lipoproteins in rats [published erratum appears in Metabolism 1990 Apr;39(4):444] Redgrave TG, et al. **Metabolism** 1990 Jan; 39(1):1–10
Effect of streptozotocin diabetes on the glycolytic flux and on fructose 2,6–bisphosphate levels in isolated rat enterocytes. Rossi I, et al. **Metabolism** 1990 Aug; 39(8):882–5
Influence of glucocorticoids on skeletal muscle proteolysis in normal and diabetic–adrenalectomized eviscerated rats. Smith OL, et al. **Metabolism** 1990 Jun;39(6):641–6
Neuropeptide content in pancreas and pituitary of obese and diabetes mutant mice: strain and sex differences. Timmers K, et al. **Metabolism** 1990 Apr;39(4):378–83
The increase in lipid peroxidation in diabetic rat lens can be reversed by oral sorbinil. Yeh LA, et al. **Metabolism** 1990 Jun;39(6):619–22
Scrapie–induced diabetes mellitus in hamsters. Srinivasappa J, et al. **Microb Pathog** 1989 Sep;7(3):189–94
Metabolic effect of pancreas transplantation on long–term diabetic rats. De Macedo A, et al. **Microsurgery** 1990; 11(2):140–4
Changes in the activity of enzymes, participating in glycogen metabolism of alloxan diabetic rats. Parsadanian HK, et al. **Mol Cell Biochem** 1989 Oct 31;90(2):185–90
Hepatic glycogen metabolism in the db/db mouse. Roesler

WJ, et al. **Mol Cell Biochem** 1990 Feb 9;92(2):99–106 (38 ref.)

Duration of streptozotocin diabetes influences the response of hypothalamic serotonin metabolism to immobilization stress. Chaouloff F, et al. **Neuroendocrinology** 1989 Sep; 50(3):344–50

The use of in vivo 2H NMR spectroscopy to investigate the effects of obesity and diabetes mellitus upon lipid metabolism in mice. Brereton IM, et al. **NMR Biomed** 1989 Jul;2(2):55–60

Altered synthesis of some secretory proteins in pancreatic lobules isolated from streptozotocin–induced diabetic rats. Duan RD, et al. **Pancreas** 1990 Mar;5(2):136–43

Abnormal regulation by glucose of somatostatin secretion in the perfused pancreas of NIDDM rats. Ostenson CG, et al. **Pancreas** 1990 May;5(3):347–53

Kinetics of proteoglycans and cells in growth plate of normal, diabetic, and malnourished rats. Axelsson I, et al. **Pediatr Res** 1990 Jan;27(1):41–4

Changes in arachidonic acid metabolite patterns in alloxan–induced diabetic rats [published erratum appears in Pharmacology 1990;40(1):41] Hui SC, et al. **Pharmacology** 1989;39(5):291–8

Participation of the CNS in the control of FFA mobilization during fasting in rabbits. Paschoalini MA, et al. **Physiol Behav** 1990 Mar;47(3):461–5

Reduced expression of the liver/beta–cell glucose transporter isoform in glucose–insensitive pancreatic beta cells of diabetic rats. Thorens B, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6492–6

Effect of dietary carbohydrates on insulin and glucagon receptors in a new model of noninsulin–dependent diabetes–SHR/N–corpulent rat. Bhathena SJ, et al. **Proc Soc Exp Biol Med** 1989 Oct;192(1):66–71

Altered myocardial prostaglandin synthesis in spontaneously diabetic rats. Durante W, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Nov; 38(2):81–6

Decrease in endothelium–dependent relaxation and levels of cyclic nucleotides in aorta from rabbits with alloxan–induced diabetes. Abiru T, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr;68(1):13–25

Effect of medium–chain triglycerides (MCT) as an energy substrate after hepatectomy in rats with streptozotocin–induced diabetes. Mitsuyoshi K, et al. **Res Exp Med (Berl)** 1990;190(3):153–62

Nonenzymatic glycosylation of vitreous proteins in vitro and in the streptozotocin–treated diabetic rat. Shires TK, et al. **Retina** 1990;10(2):153–8

Identification of fructose 3–phosphate in the lens of diabetic rats. Szwergold BS, et al. **Science** 1990 Jan 26; 247(4941):451–4

Influence of streptozotocin (STZ)–induced diabetes, dextrose diuresis and acetone on cisplatin nephrotoxicity in Fischer 344 (F344) rats. Scott LA, et al. **Toxicology** 1990 Jan–Feb; 60(1–2):109–25

[Electron spin resonance (ESR) study on hair of rats with diabetic cataract] Hu X, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):131–3 (Eng. Abstr.) **(Chi)**

[Study on change in zinc concentration for diabetic cataractous lenses in rats by means of XIXA] Liu X, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):134–6 (Eng. Abstr.) **(Chi)**

[Pancreatic glucagon receptor radioassay with liver cell plasma membrane in normal and streptozotocin–induced diabetic rats] Tang S, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Mar;21(1):34–8 (Eng. Abstr.) **(Chi)**

[Detection of sorbitol content in crystalline lens of normal rats and rats with diabetic cataract by 1H–NMR] Zhang S, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun; 21(2):125–7 (Eng. Abstr.) **(Chi)**

[Study on the variation of relaxation time in diabetic cataractous lenses of rats by using NMRA] Zhang Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun; 21(2):128–30 (Eng. Abstr.) **(Chi)**

[Diabetes, malnutrition and growth retardation] Ketelslegers JM, et al. **Bull Mem Acad R Med Belg** 1990; 145(1–2):132–41; discussion 141–3 (Eng. Abstr.) **(Fre)**

[Lipid peroxidation and cataract formation in experimental diabetes] Simonelli F, et al. **Boll Soc Ital Biol Sper** 1989 Aug;65(8):759–65 (Eng. Abstr.) **(Ita)**

[Cardiovascular involvement and Ca, Mg dynamics in animals with experimentally induced diabetes mellitus] Saijo Y, et al. **J Cardiol Suppl** 1989;22:57–9 **(Jpn)**

[The effects of exercise training on metabolic phases. With special reference to intraorganic fat and amino acids in Sprague–Dawley rats with streptozotocin diabetes] Motoyama M, et al. **Nippon Ika Daigaku Zasshi** 1989 Dec; 56(6):565–78 (Eng. Abstr.) **(Jpn)**

[Alteration of polyol metabolism in glomeruli of streptozotocin diabetic rats—analysis by gas chromatography–mass spectrometry] Wang LN, et al. **Nippon Jinzo Gakkai Shi** 1990 Apr;32(4):401–8 (Eng. Abstr.) **(Jpn)**

[Effect of hormonal dysfunction on the metabolism of high–energy phosphorus compounds in the myocardium] Wajdowicz A. **Folia Med Cracov** 1988;29(3–4):187–220 (Eng. Abstr.) **(Pol)**

[The pathochemistry of the diabetic process in the eye based on data on experimental hyperglycemia (alloxan diabetes)] Cherikchi LE. **Oftalmol Zh** 1989;(5):304–7 (Eng. Abstr.) **(Rus)**

[Phospholipid–glycerides, cross–resistance of erythrocytes, malonic dialdehyde level and alpha–tocopherol levels in the plasma and erythrocytes of rats with alloxan diabetes before and after combined antioxidant therapy] Karagezian KG, et al. **Vopr Med Khim** 1989 Sep–Oct;35(5):27–30 (Eng. Abstr.) **(Rus)**

[Oxidative processes and phospholipid metabolism in hepatocyte membranes during alloxan diabetes] Karagezian KG, et al. **Vopr Med Khim** 1990 Mar–Apr;36(2):10–2 (Eng. Abstr.) **(Rus)**

[Diabetes and calcium transportation in liver mitochondria] Grinblat L, et al. **Medicina (B Aires)** 1989;49(1):21–7 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Reovirus type 2–induced diabetes in mice prevented by immunosuppression and thymic hormone. Onodera T, et al. **Diabetologia** 1990 Apr;33(4):192–6

Paradoxical lessening of autoimmune processes in non–obese diabetic mice after infection with the diabetogenic variant of encephalomyocarditis virus. Hermitte L, et al. **Eur J Immunol** 1990 Jun;20(6):1297–303

Two amino acids, Phe 16 and Ala 776, on the polyprotein are most likely to be responsible for the diabetogenicity of encephalomyocarditis virus. Bae YS, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):639–45

D variant of encephalomyocarditis virus (EMCV–D)–induced diabetes following natural killer cell depletion in diabetes–resistant male C57BL/6J mice. White LL, et al. **Viral Immunol** 1990 Spring;3(1):67–76

PATHOLOGY

Cell features in pancreas of prediabetic and diabetic rabbits after Wirsung duct ligation. Histochemical and histoenzymatic studies. Catala J, et al. **Acta Diabetol Lat** 1990 Jan–Mar;27(1):59–69

Reduced myelinated fiber size correlates with loss of axonal neurofilaments in peripheral nerve of chronically streptozotocin diabetic rats. Yagihashi S, et al. **Am J Pathol** 1990 Jun;136(6):1365–73

Regression of white adipose tissue in diabetic rats. Géloën A, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E547–53

Tetracycline administration normalizes the structure and acid phosphatase activity of osteoclasts in streptozotocin–induced diabetic rats. Kaneko H, et al. **Anat Rec** 1990 Aug;227(4):427–36

Capsule around silicone implants in diabetic rats: histological and biochemical study. Peled IJ, et al. **Ann Plast Surg** 1986 Oct;17(4):288–91

Morphometric analysis of obesity (ob/ob)– and diabetes (db/db)–associated hypothalamic neuronal degeneration in C57BL/KsJ mice. Garris DR. **Brain Res** 1989 Oct 30; 501(1):162–70

The effect of pancreatic islet transplantation and insulin therapy on neuroaxonal dystrophy in sympathetic autonomic ganglia of chronic streptozocin–diabetic rats. Schmidt RE, et al. **Brain Res** 1989 Sep 18;497(2):393–8

Multiple low dose streptozocin–treated rats: biochemical and morphological effects of cyclosporin A administration. Papaccio G, et al. **Cell Mol Biol** 1989;35(4):409–20

Contribution of the arterial tissue to vascular pathology in diabetes mellitus. Carrara MC. **Chin J Physiol** 1990; 33(1):89–98

Electronmicroscopic observation on chronic cardiopathy in spontaneous diabetic biobreeding rats. Zhou XP, et al. **Chin Med J [Engl]** 1990 May;103(5):359–62

Muscle protein wasting in diabetes mellitus: role of proteases. Dahlmann B, et al. **Contrib Nephrol** 1989;73:127–36; discussion 137–8 (70 ref.)

Diurnal and long–term variations in corneal thickness in the normal and alloxan–induced diabetic rabbit. Herse PR. **Curr Eye Res** 1990 May;9(5):451–7

Diabetes–related changes in chromatin structure of brain, liver, and intestinal epithelium. Hartnell JM, et al. **Diabetes** 1990 Mar;39(3):348–53

Augmented polyol pathway activity and retinal pigment epithelial permeability in the diabetic BB rat. Chakrabarti S, et al. **Diabetes Res Clin Pract** 1990 Jan;8(1):1–11

Changes in the pancreatic A–, B– and D–cell populations during development of diabetes in spontaneously diabetic Chinese hamsters of the Asahikawa colony (CHAD). Iwashima Y, et al. **Diabetes Res Clin Pract** 1990 Mar; 8(3):201–14

The endocrine pancreas of alloxan–diabetic rats: microangiopathy as revealed by electron microscopy. Nakamura M, et al. **Diabetes Res Clin Pract** 1989 Sep 18; 7(3):169–79

Immunohistochemical localization of glycated protein in diabetic rat kidney. Yano M, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):215–9

Reduced number of anionic sites is associated with glomerular basement membrane thickening in the diabetic BB–rat. Chakrabarti S, et al. **Diabetologia** 1989 Nov; 32(11):826–8

Small intestinal morphology in experimental diabetic rats: a stereological study on the effects of an aldose reductase inhibitor (ponalrestat) given with or without conventional insulin therapy. Mayhew TM, et al. **Diabetologia** 1989 Sep; 32(9):649–54

Histopathological lesions in the pancreas of a rat model of diabetes induced with complete Freund's adjuvant and low–dose streptozotocin. Kohnert KD, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):47–56

Diabetes–related histopathologies of the rat retina prevented with an aldose reductase inhibitor. Robison WG Jr, et al. **Exp Eye Res** 1990 Apr;50(4):355–66

Changes in adrenergic and peptidergic nerves in the submucous plexus of streptozocin–diabetic rat ileum. Belai A, et al. **Gastroenterology** 1990 Jun;98(6):1427–36

Myocardial dysfunction in diabetic rats: influence of beta–adrenoceptor blockade (propranolol). Bora PS, et al. **Indian J Exp Biol** 1989 Jul;27(7):615–20

Cystometric changes in alloxan diabetic rats: evidence for functional and structural correlates of diabetic autonomic neuropathy. Paro M, et al. **J Auton Nerv Syst** 1990 Apr; 30(1):1–11

Neuroaxonal dystrophy in distal symmetric sensory polyneuropathy of the diabetic BB–rat. Yagihashi S, et al. **J Diabetic Complications** 1989 Oct–Dec;3(4):202–10

The hypothalamo–neurohypophysial system in streptozotocin–diabetic rats. Ultrastructural evidence for neuronal alterations in the supraoptic and paraventricular nuclei and in the neurohypophysis. Lincoln J, et al. **J Hirnforsch** 1989;30(4):425–35

Ultrastructural distribution of lectin–binding sites in the glomerular wall of streptozotocin–induced diabetic rats. Bendayan M, et al. **J Submicrosc Cytol Pathol** 1990 Apr; 22(2):173–84

Kidney complications in EMC virus–induced diabetes in conventional DBA/2 male mice. Shichinohe K, et al. **Jikken Dobutsu** 1990 Jan;39(1):113–6

Hyperglycemia and development of glomerular pathology: diabetes compared with galactosemia. Engerman RL, et al. **Kidney Int** 1989 Jul;36(1):41–5

Glomerular lesions in nonobese diabetic mouse: before and after the onset of hyperglycemia. Doi T, et al. **Lab Invest** 1990 Aug;63(2):204–12

Effect of pancreas allografts on the ultrastructure of sciatic nerves in diabetic rats. Scott MH, et al. **Microsurgery** 1990; 11(2):152–61

The retinal microvasculature of spontaneously diabetic BB rats: structure and luminal surface properties. Fitzgerald ME, et al. **Microvasc Res** 1990 Jan;39(1):15–27

The enterochromaffin cells in the mouse gastrointestinal tract after streptozotocin treatment. Portela–Gomes GM, et al. **Pathol Res Pract** 1990 Apr;186(2):260–4

Repopulation of the atrophied thymus in diabetic rats by insulin–like growth factor I. Binz K, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3690–4

The effects of estradiol and progesterone on reproductive tract atrophy and tissue adrenergic indices in diabetic C57BL/KsJ mice. Garris DR. **Proc Soc Exp Biol Med** 1990 Jan;193(1):39–45

Quantitative morphological changes in endocrine pancreas of rats with spontaneous diabetes mellitus. Gomez Dumm CL, et al. **Virchows Arch [B]** 1989;57(6):375–81

[Quantitative study of the ultrastructural lesions of chronic cardiopathy in BB rats with spontaneous genetic diabetes] Zhou X. **Chung Hua I Hsueh Tsa Chih** 1990 May; 70(5):280–2 **(Chi)**

[Periodontal reactions to orthodontic forces in the diabetic metabolic state] Holtgrave EA, et al. **Fortschr Kieferorthop** 1989 Aug;50(4):326–37 (Eng. Abstr.) **(Ger)**

[Ultrastructural and ultracytochemical changes in the lungs of rats with diabetes mellitus] Lysenko LV, et al. **Biull Eksp Biol Med** 1990 Jan;109(1):75–8 (Eng. Abstr.) **(Rus)**

[Review of the morphological changes in peripheral nerves in experimental diabetes mellitus] Ochodnická E, et al. **Bratisl Lek Listy** 1989 Jul;90(7):540–4 (Eng. Abstr.) **(Slo)**

PHYSIOPATHOLOGY

Effect of dietary environment on the development of impaired glucose tolerance and pancreatic hormone secretion in neonatal streptozocin–treated (NSZ) rats. Seino Y, et al. **Acta Diabetol Lat** 1990 Apr–Jun;27(2):95–104

Coronary blood flow in chronic insulin–dependent diabetic dogs. Small KW, et al. **Acta Diabetol Lat** 1989 Oct–Dec; 26(4):275–82

Relative growth and maturation of axon size and myelin thickness in the tibial nerve of the rat. 2. Effect of streptozotocin–induced diabetes. Thomas PK, et al. **Acta Neuropathol (Berl)** 1990;79(4):375–86

Non–adrenergic non–cholinergic inhibitory innervation of the gastric fundus in streptozotocin–diabetic rats. D'Amato M, et al. **Acta Physiol Hung** 1990;75 Suppl:77–8

Effect in vivo of endogenous sexual hormones upon the liver mitochondrial function compared in male and female diabetic rats. Brignone JA, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):197–209

Central monoamine dysfunction in diabetes: psychotherapeutic implications: electroanalysis by voltammetry. Broderick PA, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):211–25

Glucagon secretion and alpha–cell sensitivity to somatostatin in genetically diabetic mice C57BL/KsJ–mdb. Karabatas LM, et al. **Acta Physiol Pharmacol Latinoam** 1989; 39(2):145–52

Studies on kallikrein–kinin system and enzymes activity in

organs and urine from diabetic mice models. Catanzaro OL, et al. **Adv Exp Med Biol** 1989;247A:593–7
Effect of diabetes mellitus on thyrotropin release from isolated rat thyrotrophs. Chamras H, et al. **Am J Med Sci** 1990 Jul;300(1):16–21
Relationship between atrial granularity and release of atrial natriuretic factor in rats with diabetes mellitus. Hebden RA, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R932–8
Altered microvascular reactivity in streptozotocin–induced diabetes in rats. Hill MA, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1438–45
Structural and functional characteristics of muscle from diabetic rodent small intestine. Nowak TV, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G690–8
Renal vascular responses and eicosanoid release in diabetic rats. Sarubbi D, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):F762–8
Contraction of diabetic rabbit aorta caused by endothelium–derived PGH2–TxA2. Tesfamariam B, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1327–33
Hyperreactivity of contractile response in gastric fundus smooth muscle from rats with diabetes induced by streptozotocin. Aihara K, et al. **Arch Int Pharmacodyn Ther** 1989 Nov–Dec;302:220–31
Influence of the diabetic state on digitalis–induced cardiac arrhythmias in rat. Navaratnam S, et al. **Arch Int Pharmacodyn Ther** 1989 Sep–Oct;301:151–64
Experimental diabetes in lactating sheep: effects of alloxan on plasma insulin, glucose, glucose kinetics and milk characteristics. Leenanuruksa D, et al. **Aust J Biol Sci** 1988; 41(2):223–9
Regulation of very–low–density–lipoprotein lipid secretion in hepatocyte cultures derived from diabetic animals. Duerden JM, et al. **Biochem J** 1989 Aug 15;262(1):313–9
Role of thromboxanes in alterations of the diabetic beta–adrenergic system. Wald M, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3347–55
Fluidity of rat liver Golgi membranes in streptozotocin diabetes. A spin label study. Kordowiak AM, et al. **Biochim Biophys Acta** 1990 Mar;1022(3):296–302
Effect of streptozotocin–induced diabetes on sex differences in biliary lipid secretion in the rat. Marin JJ, et al. **Biochim Biophys Acta** 1990 Mar 12;1043(1):106–12
Effect of diabetes on the healing process of synthetic grafts implanted in dogs: a preliminary study. Awad JA, et al. **Biomaterials** 1989 Nov;10(9):590–7
Alterations in atrial reactivity in a strain of spontaneously diabetic rats. Durante W, et al. **Br J Pharmacol** 1989 Aug; 97(4):1137–44
Effect of age and methacholine on the rate and coronary flow of isolated hearts of diabetic rats. Li XS, et al. **Br J Pharmacol** 1989 Aug;97(4):1209–17
Effects of experimental diabetes on the responsiveness of rat aorta. Mulhern M, et al. **Br J Pharmacol** 1989 Aug; 97(4):1007–12
Renal vascular responsiveness to arachidonic acid in experimental diabetes. Quilley J, et al. **Br J Pharmacol** 1990 Jun;100(2):336–40
Lack of correlation between the sulfobromophthalein test and fatty liver in diabetic dogs. Castro–e–Silva Júnior O, et al. **Braz J Med Biol Res** 1989;22(7):845–8
Differences in vascular responses to vasoactive agents of basilar artery and aorta from rabbits with alloxan–induced diabetes. Abiru T, et al. **Can J Physiol Pharmacol** 1990 Jul;68(7):882–8
Acute insulin withdrawal contributes to ischemic heart failure in spontaneously diabetic BB Wistar rats. Lopaschuk GD, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):462–6
Attenuated renal responses to atrial natriuretic factor in streptozotocin–induced diabetic rats. Patel KP, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):425–30
Cardiac dysfunction in isolated perfused hearts from spontaneously diabetic BB rats. Rodrigues B, et al. **Can J Physiol Pharmacol** 1990 Apr;68(4):514–8
Chronic diabetes mellitus prolongs action potential duration of rat ventricular muscles: circumstantial evidence for impaired Ca2+ channel. Nobe S, et al. **Cardiovasc Res** 1990 May;24(5):381–9
The effect of non–enzymatically glycosylated collagen on normal human platelets [letter] Yarat A, et al. **Clin Chim Acta** 1989 Nov;185(2):203–5
Coronary hemodynamics in diabetic spontaneously hypertensive rats. Yamamoto J, et al. **Clin Exp Hypertens [A]** 1990;12(3):325–42
Effect of glycaemic control on glomerular filtration rate in the streptozotocin diabetic rat. Jackson B, et al. **Clin Exp Pharmacol Physiol** 1988 Apr;15(4):361–5
High salt diet ameliorates effects of angiotensin converting enzyme inhibition in spontaneously hypertensive streptozotocin diabetic rats. Jackson B, et al. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):229–34
Thermoregulatory responses of diabetic rats. Shalaby TH, et al. **Comp Biochem Physiol [A]** 1989;94(1):153–7
Renal handling and metabolism of adenosine in diabetic rats. Angielski S, et al. **Contrib Nephrol** 1989;73:52–7; discussion 57–8
Early appearance of in vivo insulin resistance in adult streptozotocin–injected rats. Blondel O, et al. **Diabete Metab** 1989 Nov–Dec;15(6):382–7
Effects of streptozocin–induced diabetes on sympathetic and parasympathetic stimulation of parotid salivary gland function in rats. Anderson LC, et al. **Diabetes** 1989 Nov; 38(11):1381–9
Comparison of high– and low–diabetes–incidence NOD mouse strains. Baxter AG, et al. **Diabetes** 1989 Oct; 38(10):1296–300
Effect of cyclosporin on pancreatic events and development of diabetes in BB/Edinburgh rats. Bone AJ, et al. **Diabetes** 1990 Apr;39(4):508–14
Changes in skeletal muscle contractile properties in streptozocin–induced diabetic rats and role of polyol pathway and hypoinsulinemia. Cameron NE, et al. **Diabetes** 1990 Apr;39(4):460–5
Peripheral neuropathy in diabetic monkeys. Cornblath DR, et al. **Diabetes** 1989 Nov;38(11):1365–70
Diabetes and impaired response of glucagon cells and vascular bed to adenosine in rat pancreas. Gross R, et al. **Diabetes** 1989 Oct;38(10):1291–5
Regional brain glucose metabolism and blood flow in streptozocin–induced diabetic rats. Jakobsen J, et al. **Diabetes** 1990 Apr;39(4):437–40
Microvascular reactivity to norepinephrine at different arteriolar levels and durations of streptozocin–induced diabetes. Morff RJ. **Diabetes** 1990 Mar;39(3):354–60
Adaptation of cholinergic enteric neuromuscular transmission in diabetic rat small intestine. Nowak TV, et al. **Diabetes** 1990 Aug;39(8):891–7
Prevention of diabetes–increased aging effect on rat collagen–linked fluorescence by aminoguanidine and rutin. Odetti PR, et al. **Diabetes** 1990 Jul;39(7):796–801
Decreased inner cell mass proportion in blastocysts from diabetic rats. Pampfer S, et al. **Diabetes** 1990 Apr; 39(4):471–6
Modulation of hemodynamic and vascular filtration changes in diabetic rats by dietary myo–inositol. Pugliese G, et al. **Diabetes** 1990 Mar;39(3):312–22
Effects of islet isografts on hemodynamic and vascular filtration changes in diabetic rats. Pugliese G, et al. **Diabetes** 1990 Mar;39(3):323–32
Prostacyclin and pathogenesis of hemodynamic abnormalities of diabetic ketoacidosis in rats. Quyyumi AA, et al. **Diabetes** 1989 Dec;38(12):1585–94
Reverse hemolytic plaque assay study of luteinizing and follicle–stimulating hormone and thyrotropin secretion in diabetic rat pituitary glands. Rossi GL, et al. **Diabetes** 1989 Oct;38(10):1301–6
Reversal of glomerular hyperfiltration and renal hypertrophy by blood glucose normalization in diabetic rats. Stackhouse S, et al. **Diabetes** 1990 Aug;39(8):989–95
Effect of continuous versus delayed insulin replacement on sex behavior and neuroendocrine function in diabetic male rats. Steger RW, et al. **Diabetes** 1990 Aug;39(8):942–8
Myocyte contracture, vascular resistance, and vascular permeability after global ischemia in isolated hearts from alloxan–induced diabetic rabbits. Tilton RG, et al. **Diabetes** 1989 Nov;38(11):1484–91
Prevention of hemodynamic and vascular albumin filtration changes in diabetic rats by aldose reductase inhibitors. Tilton RG, et al. **Diabetes** 1989 Oct;38(10):1258–70
Atrial structure and plasma ANF levels in rats with chronic diabetes mellitus. Todd ME, et al. **Diabetes** 1990 Apr; 39(4):483–9
Early onset of increased transcapillary albumin escape in awake diabetic rats. Tucker BJ. **Diabetes** 1990 Aug; 39(8):919–23
Influence of maternal dietary Zn intake on expression of diabetes–induced teratogenicity in rats. Uriu–Hare JY, et al. **Diabetes** 1989 Oct;38(10):1282–90
Bone and mineral metabolism in BB rats with long–term diabetes. Decreased bone turnover and osteoporosis. Verhaeghe J, et al. **Diabetes** 1990 Apr;39(4):477–82
Inability to detect parasympathetic autonomic neuropathy in experimental canine diabetes mellitus in an electrocardiographic study. Atkins CE, et al. **Diabetes Res** 1989 May;11(1):39–43
The effect of islet–activating protein (IAP) of pertussis toxin on the spontaneous diabetic syndrome in the rat. Bergada I, et al. **Diabetes Res** 1989 Jun;11(2):85–91
Reversal by vanadate of the effect of diabetes on intestinal growth and transport. Hajjar JJ, et al. **Diabetes Res** 1989 Mar;10(3):139–41
The effect of alloxan induced diabetes in the rabbit on placental transfer of glucose and non–esterified fatty acids. Thomas CR, et al. **Diabetes Res** 1989 Jun;11(2):55–60
Longitudinal evaluation of the renal clearance of glycated albumin in the diabetic rat. Layton GJ, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):221–6
Insulin release by D–glucose anomers in a non–insulin–dependent diabetes rat model. Niki A, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S87–92
Decreased beta–adrenergic responses of rat small intestine due to non–insulin–dependent diabetes. Oztürk Y, et al. **Diabetes Res Clin Pract** 1990 May–Jun;9(2):123–7
Proteins of slow axonal transport in sciatic motoneurones of rats with streptozotocin–induced diabetes or galactosaemia. Tomlinson DR, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):15–21
Normal insulin sensitivity during the phase of glucose intolerance but insulin resistance at the onset of diabetes in the spontaneously diabetic BB rat. Baudon MA, et al. **Diabetologia** 1989 Dec;32(12):839–44
Diabetic neuropathy in db/db mice develops independently of changes in ATPase and aldose reductase. A biochemical and immunohistochemical study. Bianchi R, et al. **Diabetologia** 1990 Mar;33(3):131–6
Chronic low frequency electrical activation for one week corrects nerve conduction velocity deficits in rats with diabetes of three months duration. Cameron NE, et al. **Diabetologia** 1989 Oct;32(10):759–61
Kidney IGF–I mRNA in initial renal hypertrophy in experimental diabetes in rats. Flyvbjerg A, et al. **Diabetologia** 1990 Jun;33(6):334–8
Lessons from the NOD mouse for the pathogenesis and immunotherapy of human type 1 (insulin–dependent) diabetes mellitus. Lampeter EF, et al. **Diabetologia** 1989 Oct;32(10):703–8 (57 ref.)
Effects of very mild versus overt diabetes on vascular haemodynamics and barrier function in rats. Pugliese G, et al. **Diabetologia** 1989 Dec;32(12):845–57
Essential fatty acid treatment—effects on nerve conduction, polyol pathway and axonal transport in streptozotocin diabetic rats. Tomlinson DR, et al. **Diabetologia** 1989 Sep; 32(9):655–9
Streptozotocin is not toxic to the human fetal B cell. Tuch BE, et al. **Diabetologia** 1989 Sep;32(9):678–84
Experimental diabetes impairs rat embryo development during the preimplantation period. Vercheval M, et al. **Diabetologia** 1990 Apr;33(4):187–91
Characterization of exercise–induced hyperketonemia in streptozotocin–diabetic rats and the effects on it of prolonged training. Ohmori H, et al. **Endocrinol Jpn** 1989 Jun;36(3):417–27
Beneficial effect of an ACTH–(4–9) analog on peripheral neuropathy and blood pressure response to tyramine in streptozocin diabetic rats. Van der Zee CE, et al. **Eur J Pharmacol** 1990 Feb 27;177(3):211–3
Increased angiogenesis in diabetes. Norrby K, et al. **Experientia** 1990 Aug 15;46(8):856–60
Animal models of spontaneous diabetic kidney disease. Velasquez MT, et al. **FASEB J** 1990 Aug;4(11):2850–9 (67 ref.)
Functional changes in the microcirculation of alloxan–induced diabetic rats. Fortes ZB, et al. **Gen Pharmacol** 1989;20(5):615–20
Effects of ponalrestat on depressor responses to arachidonic acid in streptozotocin–diabetic rats. Law SC, et al. **Gen Pharmacol** 1990;21(1):135–9
The effects of testosterone or insulin treatment on contractile responses of the rat vas deferens following castration or streptozotocin–induced diabetes mellitus. Longhurst PA. **Gen Pharmacol** 1990;21(4):427–34
Delayed stomach to caecum transit time in the diabetic rat. Possible role of hyperglucagonaemia. Chesta J, et al. **Gut** 1990 Jun;31(6):660–2
Effect of insulin pump therapy on blood pressure and the renin–angiotensin system of diabetic rats. Hartmann JF, et al. **Horm Metab Res** 1990 Mar;22(3):141–4
The potentiating effect of the simultaneous administration of tolbutamide, glibenclamide, and gliclazide on the development of alloxan–induced diabetes in rats. Katsumata K, et al. **Horm Metab Res** 1990 Jan;22(1):51–2
Adrenalectomy in genetically obese ob/ob and db/db mice increases the proton conductance pathway. Shargill NS, et al. **Horm Metab Res** 1989 Sep;21(9):463–7
Insulin, thyroid hormone, and heart function of diabetic spontaneously hypertensive rat. Davidoff AJ, et al. **Hypertension** 1990 Jun;15(6 Pt 1):633–42
Ventricular relaxation of diabetic spontaneously hypertensive rat. Davidoff AJ, et al. **Hypertension** 1990 Jun;15(6 Pt 1):643–51
Myocardial perfusion in experimentally induced diabetes mellitus. Toma B, et al. **Indian J Exp Biol** 1990 Mar; 28(3):289–90
Streptozotocin–diabetes attenuates alpha 2–adrenoceptor agonist–induced delay in small intestinal transit in mice. Ramabadran K, et al. **J Auton Pharmacol** 1990 Jun; 10(3):163–71
Enhanced contractile responses of arteries from diabetic rats to alpha 1–adrenoceptor stimulation in the absence and presence of extracellular calcium. Abebe W, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):239–48
Effects of altered glucose homeostasis on glucose transporter expression in skeletal muscle of the rat. Bourey RE, et al. **J Clin Invest** 1990 Aug;86(2):542–7
A neuropathic deficit, decreased sweating, is prevented and ameliorated by euglycemia in streptozocin diabetes in rats. Cardone C, et al. **J Clin Invest** 1990 Jul;86(1):248–53
Abnormal cardiac function in the streptozotocin–diabetic rat. Changes in active and passive properties of the left ventricle. Litwin SE, et al. **J Clin Invest** 1990 Aug; 86(2):481–8
Reversal of beta–cell suppression in vitro in pancreatic islets isolated from nonobese diabetic mice during the phase preceding insulin–dependent diabetes mellitus. Strandell E, et al. **J Clin Invest** 1990 Jun;85(6):1944–50
Effects of chronic non–ketotic diabetes and aging on myocardial function and fatty acid oxidation. Murthy VK, et al. **J Diabetic Complications** 1990 Jan–Mar;4(1):26–34
Growth hormone–releasing factor–induced growth hormone secretion from perifused rat anterior pituitary cells: lack of influence of glucose concentration, and normal responses in pituitary cells from diabetic animals. Caldwell G, et al. **J Endocrinol** 1989 Sep;122(3):657–60
Plasma clearance of heterogeneous growth hormone components in the rat: effects of diabetes and starvation. Jolin T, et al. **J Endocrinol Invest** 1990 Mar;13(3):209–16

Effects of fish oil on glomerular function in rats with diabetes mellitus. Sinha AK, et al. **J Lipid Res** 1990 Jul; 31(7):1219–28

Axonal transport of substance P–like immunoreactivity in ganglioside–treated diabetic rats. Calcutt NA, et al. **J Neurol Sci** 1990 May;96(2–3):283–91

Impaired nerve regeneration in streptozotocin–diabetic rats. Effects of treatment with an aldose reductase inhibitor. Ekström AR, et al. **J Neurol Sci** 1989 Nov;93(2–3):231–7

Neuromuscular transmission in diabetes: response to high–frequency activation. Schiller Y, et al. **J Neurosci** 1989 Nov;9(11):3709–19

Enhanced adrenergic response of the cerebral vasculature in alloxan–induced diabetic rats. Kurihara J, et al. **J Pharmacobiodyn** 1989 Nov;12(11):700–7

Decreased sensitivity of contraction to changes of intracellular pH in papillary muscle from diabetic rat hearts. Lagadic–Gossmann D, et al. **J Physiol (Lond)** 1990 Mar; 422:481–97

Bladder function in rats with short– and long–term diabetes; effects of age and muscarinic blockade. Malmgren A, et al. **J Urol** 1989 Dec;142(6):1608–14

Effects of streptozotocin–induced diabetes on bladder function in the rat. Steers WD, et al. **J Urol** 1990 May; 143(5):1032–6

Augmentation of wound healing by royal jelly (RJ) in streptozotocin–diabetic rats. Fujii A, et al. **Jpn J Pharmacol** 1990 Jul;53(3):331–7

Diabetes–induced enhancement of prostanoid–stimulated contraction in mesenteric veins of mice. Kimura I, et al. **Jpn J Pharmacol** 1989 Nov;51(3):403–10

Compliance changes of the gastrointestinal tract in streptozotocin–induced diabetic rats. Karakida T, et al. **Jpn J Physiol** 1989;39(4):559–70

Studies of renal autoregulation in pancreatectomized and streptozotocin diabetic rats. Mauer SM, et al. **Kidney Int** 1990 Mar;37(3):909–17

Insulin resistance in rats with non–insulin–dependent diabetes induced by neonatal (5 days) streptozotocin: evidence for reversal following phlorizin treatment. Blondel O, et al. **Metabolism** 1990 Aug;39(8):787–93

Nerve conduction velocity in dogs is reduced by diabetes and not by galactosemia. Engerman RL, et al. **Metabolism** 1990 Jun;39(6):638–40

Vascular filtration function in galactose–fed versus diabetic rats: the role of polyol pathway activity. Pugliese G, et al. **Metabolism** 1990 Jul;39(7):690–7

Streptozotocin–induced diabetes in rat. III. Antioxidant protection of vascular complications by flunarizine and aligeron. Somova L, et al. **Methods Find Exp Clin Pharmacol** 1989 Oct;11(10):607–12

Pancreatic D–cell disorder in coxsackievirus B4–induced diabetic mice. Chatterjee NK, et al. **Mol Cell Endocrinol** 1989 Nov;67(1):39–45

Uninephrectomy does not potentiate contrast media nephrotoxicity in the streptozotocin–induced diabetic rat. Shyh TP, et al. **Nephron** 1990;55(2):170–5

Diabetes–induced alterations of reproductive and adrenal function in the female rat. Valdes CT, et al. **Neuroendocrinology** 1990 Apr;51(4):406–12

Acute changes in blood glucose affect resistance to ischemic nerve conduction failure. Parry GJ, et al. **Neurology** 1990 Jan;40(1):107–10

Effects of gangliosides on the methionine uptake in crushed sciatic nerves of rats with alloxan diabetes. Benech C, et al. **Neurosci Lett** 1990 Jul 3;114(2):220–4

Conduction velocity of motor nerve and cervical sympathetic and vagus nerve in streptozotocin diabetic rats. Yamazaki Y, et al. **Neurosci Lett** 1990 May 18;113(1):29–33

Effects of naloxone and Mr 2266 on thermonociceptive reactions in diabetic mice. Ramabadran K, et al. **NIDA Res Monogr** 1989;95:528–9

Effect of hyperglycemia on pain threshold in alloxan–diabetic rats. Lee JH, et al. **Pain** 1990 Jan;40(1):105–7

The effects of type–1 and type–2 diabetes on endothelium–dependent relaxation in rat aorta. Altan VM, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):519–22

Effect of yohimbine on nociceptive threshold in normoglycemic and streptozotocin–treated hyperglycemic mice. Bansinath M, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):459–63

Development of supersensitivity to substance P in the spinal cord of the streptozotocin–induced diabetic rats. Kamei J, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):473–5

Testosterone replacement fails to reverse the adverse effects of streptozotocin–induced diabetes on sexual behavior in the male rat. Steger RW. **Pharmacol Biochem Behav** 1990 Mar;35(3):577–82

Effects of kappa– and mu–selective opiate agonists on colonic temperature in normoglycaemic and streptozotocin–treated hyperglycaemic mice. Bansinath M, et al. **Pharmacol Toxicol** 1990 May;66(5):324–8

Impaired beta–adrenergic mediated cerebral blood flow response in streptozotocin diabetic rats. Lass P, et al. **Pharmacol Toxicol** 1989 Oct;65(4):318–20

Length–tension relationship of urinary bladder strips from streptozotocin–diabetic rats. Longhurst PA, et al. **Pharmacology** 1990;40(2):110–21

Effect of beta–sitosterol–3–beta–D–glucoside on insulin secretion in vivo in diabetic rats and in vitro in isolated rat islets of Langerhans. Ivorra MD, et al. **Pharmazie** 1990 Apr;45(4):271–3

Altered responses to environmental stress in streptozotocin–diabetic rats. Bellush LL, et al. **Physiol Behav** 1990 Feb;47(2):231–8

Glycemic control of pain threshold in diabetic and control rats. Lee JH, et al. **Physiol Behav** 1990 Feb;47(2):225–30

Abnormal feeding behavior and insulin replacement in STZ–induced diabetic rats. Shimomura Y, et al. **Physiol Behav** 1990 Apr;47(4):731–4

Overexpression of fibronectin induced by diabetes or high glucose: phenomenon with a memory. Roy S, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):404–8

Diminished vasodilation; imbalance of synthesized cyclooxygenase products by adrenergic mediation in diabetic coronaries of the dog. Koltai MZ, et al. **Prog Clin Biol Res** 1989;301:449–53

Blood–brain barrier permeability after electrically induced seizure in normoglycemic, hypoglycemic, and hyperglycemic rats. Oztaş B, et al. **Psychiatry Res** 1989 Aug;29(2):151–9

The psychoneuroendocrinology of diabetes mellitus in rodents. Leedom LJ, et al. **Psychoneuroendocrinology** 1989; 14(4):275–94 (131 ref.)

The effect of aldose reductase inhibition on the pattern of nerve conduction deficits in diabetic rats. Cameron NE, et al. **Q J Exp Physiol** 1989 Nov;74(6):917–26

Streptozotocin–induced experimental diabetes causes a time–dependent inhibition of growth and steroidogenic capacity of rat adrenal zona glomerulosa. Rebuffat P, et al. **Res Exp Med (Berl)** 1990;190(1):1–12

Wound healing in experimental diabetes mellitus: importance of early insulin therapy. Goodson WH 3d, et al. **Surg Forum** 1978;29:95–8

The effect of pancreatic polypeptide infusion on glucose tolerance and insulin response in longitudinally studied pancreatitis–induced diabetes. Bastidas JA, et al. **Surgery** 1990 Jun;107(6):661–8

Morphological and physiological effects of beta–hydroxybutyrate on rat embryos grown in vitro at different stages. Moore DC, et al. **Teratology** 1989 Sep; 40(3):237–51

Effects of streptozotocin–induced diabetes on xylazine–ketamine anesthesia. Amouzadeh HR, et al. **Vet Hum Toxicol** 1990 Feb;32(1):19–22

[Effects of halothane on skinned cardiac fibers from the myopathic hamster and the diabetic rat] Murat I, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R137 **(Fre)**

[Correlation between gastric emptying time and both plasma gastrin and pancreatic polypeptide in streptozotocin diabetic dogs] Koizumi F, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 May;86(5):1037–43 (Eng. Abstr.) **(Jpn)**

[The effect of diabetes mellitus on the renal prostanoid system and on the arterial pressure level in spontaneously hypertensive rats] Markov KhM, et al. **Patol Fiziol Eksp Ter** 1990 Mar–Apr;(2):10–2 (Eng. Abstr.) **(Rus)**

[The dynamic changes in the regional volumetric cerebral blood flow and local vascular reactivity in acute craniocerebral trauma in animals with alloxan diabetes] Romodanov AP, et al. **Zh Vopr Neirokhir** 1990 May–Jun; (3):19–22 (Eng. Abstr.) **(Rus)**

[Effect of hyperbaric oxygen therapy on the binding of C–14 arachidonic acid by platelets from diabetic rats (letter)] Pérez C, et al. **Rev Esp Fisiol** 1989 Sep;45(3):297–8 **(Spa)**

PREVENTION & CONTROL

Blocking by anti–idiotypic antibodies of monoclonal antibody mediated protection in mice against encephalomyocarditis virus induced diabetes and lethal disease. Vlaspolder F, et al. **Arch Virol** 1990;110(3–4):277–85

Portable closed loop feedback system for control of the blood glucose level in the pig. Pierzynowski SG, et al. **Artif Organs** 1990 Apr;14(2):118–21

Studies on autoimmunity for initiation of beta–cell destruction. V. Decrease of macrophage–dependent T lymphocytes and natural killer cytotoxicity in silica–treated BB rats. Amano K, et al. **Diabetes** 1990 May;39(5):590–6

Insulitis and diabetes in NOD mice reduced by prophylactic insulin therapy. Atkinson MA, et al. **Diabetes** 1990 Aug; 39(8):933–7

Silica prevents the induction of diabetes with complete Freund's adjuvant and low–dose streptozotocin in rats. Wright JR Jr, et al. **Diabetes Res** 1989 Jun;11(2):51–4

The suppressive effect of cyclophosphamide on low–dose streptozotocin–induced diabetes in mice. Yanagawa T, et al. **Diabetes Res** 1989 Oct;12(2):79–83

Prevention of overt diabetes and insulitis in NOD mice by a single BCG vaccination. Harada M, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):85–9

Protective effect of probucol on alloxan diabetes in rats. Matsushita M, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):313–6

Anti–interleukin 2 receptor antibody attenuates low–dose streptozotocin–induced diabetes in mice. Hatamori N, et al. **Diabetologia** 1990 May;33(5):266–71

Interleukin–2–dependent control of disease development in spontaneously diabetic BB rats. Zielasek J, et al. **Immunology** 1990 Feb;69(2):209–14

Prevention of diabetes in the BB rat by essential fatty acid deficiency. Relationship between physiological and biochemical changes. Lefkowith J, et al. **J Exp Med** 1990 Mar 1;171(3):729–43

The role of interferon in the protection of ICR Swiss male mice by the nondiabetogenic variant of encephalomyocarditis virus against virus–induced diabetes mellitus. Kaptur PE, et al. **J Interferon Res** 1989 Dec; 9(6):671–8

Prevention of spontaneous diabetes in BB rats with FK 506 [letter] Murase N, et al. **Lancet** 1990 Aug 11; 336(8711):373–4

Effects of acarbose on the development of diabetes in BB/Wor rats. Koevary SB. **Metabolism** 1990 Aug; 39(8):865–70

Prevention of diabetes in nonobese diabetic mice by tumor necrosis factor (TNF): similarities between TNF–alpha and interleukin 1. Jacob CO, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):968–72

[The role of endogenous heparin in the protection against risk factors causing experimental diabetes] Kudriashov BA, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):80–2 (Eng. Abstr.) **(Rus)**

SURGERY

Islet transplantation to the renal subcapsular space in streptozotocin–diabetic rats. Long–term effects on insulin and glucagon secretion. Ar'Rajab A, et al. **Acta Chir Scand** 1989 Oct;155(10):503–8

The prevention of diabetic retinal and renal basement membrane thickening in mice by islet cell allografts. Gillies MC, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):27–32

Reversal of diabetes in BB rats by transplantation of encapsulated pancreatic islets. Fan MY, et al. **Diabetes** 1990 Apr;39(4):519–22

Islet transplantation to the renal subcapsular space in streptozotocin–diabetic rats: short–term effects on glucose–stimulated insulin secretion. Rajab AA, et al. **Diabetes Res Clin Pract** 1989 Sep 18;7(3):197–204

Lack of favorable effect of immunomodulators on outbred syngeneic rodent islet transplantation. Shin SJ, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):79–83

Functional properties of proislet isografts in diabetic mice. Simeonovic CJ, et al. **Diabetes Res Clin Pract** 1990 Mar; 8(3):275–81

The effect of hyperglycaemia on pancreatic islets transplanted into rats beneath the kidney capsule. Gray DW, et al. **Diabetologia** 1989 Sep;32(9):663–7

Arginine stimulated insulin and glucagon release from islets transplanted into the liver of diabetic rats. Brömme HJ, et al. **Horm Metab Res** 1989 Nov;21(11):587–9

Transplantation of pancreatic islet tissue and the control of diabetes mellitus. Slater DN, et al. **Invest Cell Pathol** 1978 Jan–Mar;1(1):65–97 (167 ref.)

Chronic diabetes harms islet–cell transplants by inhibiting graft vascularisation. Cuthbertson RA, et al. **Med Hypotheses** 1990 Mar;31(3):171–5 (32 ref.)

Induction of donor–specific unresponsiveness by intrathymic islet transplantation [see comments] Posselt AM, et al. **Science** 1990 Sep 14;249(4974):1293–5 Comment in: Science 1990 Sep 14;249(4974):1248.

New transplant method evades immune attack [news; comment] Skerrett PJ. **Science** 1990 Sep 14;249(4974):1248 Comment on: Science 1990 Sep 14;249(4974):1293–5.

Successful treatment of viral–induced diabetes mellitus by islet transplantation. Howard RJ, et al. **Surg Forum** 1978; 29:343–5

Cryopreservation of neonatal rat islet tissue. Payne WD, et al. **Surg Forum** 1978;29:347–9

Effect of islet transplantation on plasma lipid levels in diabetic rats. Vialettes B, et al. **Surg Forum** 1978;29:345–7

Preservation of the functional integrity of islets for transplantation: Ficoll versus dextran gradients for purification. al–Abdullah IH, et al. **Transplant Proc** 1990 Aug;22(4):2046–7

Cyclosporine treatment of BB rat pancreas transplant recipients: a functional and histologic analysis. Bartlett ST, et al. **Transplant Proc** 1990 Apr;22(2):736–8

Studies of host immunomodulation and prevention of pancreatic beta cell destruction. Brayman KL, et al. **Transplant Proc** 1990 Apr;22(2):851–2

Successful islet transplantation in BB rats without chronic immunosuppression. Chabot JA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):974–5

Murine fetal islet transplants influence renal and retinal pathology. Cuthbertson RA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):967–8

Development of human fetal xenograft transplants in diabetic nude mice. Elias KA, et al. **Transplant Proc** 1990 Apr; 22(2):806–7

Reversal of diabetes by transplantation of pure cryopreserved canine islets. Evans MG, et al. **Transplant Proc** 1990 Apr; 22(2):543–4

The response to glycemic challenge of portally and systemically placed fetal islet cell isografts. Gillies MC, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):933

Permanent acceptance of islet allografts in mice is not associated with immunologic tolerance. Gores PF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):499–500

Augmented survival of purified islet xeno– and allografts with reduced numbers. Gotoh M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):984

Effect of antilymphocyte serum on crude pancreatic islet allograft survival. Gotoh M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):576–7

Effect of pancreatic transplantation on cardiovascular changes in diabetic rats: a qualitative and quantitative ultrastructural study. Hayashi T, et al. **Transplant Proc** 1990 Aug;22(4):2027–34

Successful transplantation of rat islets isolated by a new method. Huber W, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):924

Human fetal pancreas: potential for transplantation. Hullett DA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):909–10

Tissue reaction to implanted bioartificial pancreas in pigs. Icard P, et al. **Transplant Proc** 1990 Apr;22(2):724–6

Allogeneic islets transplanted intraportally maintain hepatic integrity following portacaval shunt in rats. Kamei T, et al. **Transplant Proc** 1990 Apr;22(2):810–3

Triple-combination therapy with cyclosporine, antithymocyte serum, and silica in pancreatic islet xenografting. Kanehiro H, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1276–8

Islet isolation from human pancreas stored in UW solution for 6 to 26 hours. Kneteman NM, et al. **Transplant Proc** 1990 Apr;22(2):763–4

Pancreas preservation prior to islet isolation: evaluation of storage solutions in a rodent model. Kneteman NM, et al. **Transplant Proc** 1990 Apr;22(2):541–2

Xenogeneic pancreatic islet transplantation using a millipore diffusion chamber. Kojima Y, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):981–3

Delayed reversal of diabetes after pancreas isotransplantation in chronically diabetic mice. Koulmanda M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):979–80

Insuloacinar axis in pancreas transplantation. Limmer J. **Transplant Proc** 1990 Apr;22(2):734–5

B cell response to portal or systemic endocrine graft drainage in heterotopic pancreas transplantation in the rat. Limmer J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1015–6

Islet grafts in NOD mice: a comparison of iso-, allo-, and pig xenografts. Mandel TE, et al. **Transplant Proc** 1989 Oct;21(5):3813–4

Immunologic consequences of islet MHC antigen modulation in autoimmune diabetes. Markmann JF, et al. **Transplant Proc** 1990 Apr;22(2):849–50

Prolongation of islet isograft survival in diabetic NOD mice by anti-L3T4 and anti-LYT2 monoclonal antibodies. Matsuo S, et al. **Transplant Proc** 1990 Apr;22(2):880–1

A comparative study of pancreas alone and combined pancreas-kidney allotransplantation in rats. Nakai I, et al. **Transplant Proc** 1990 Apr;22(2):743–6

Elimination of OX8+ cells prolongs cardiac but not pancreatic allograft survival across minor (non-MHC) histocompatibility barriers. Roza AM, et al. **Transplant Proc** 1990 Apr;22(2):747–8

The effects of immunosuppression on islet transplant function in the dog. Scharp DW, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):952–3

Allotransplantation of neonatal islets in nonimmunosuppressed normal and diabetic rats. Serie JR, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):962–4

Reversal of diabetes in CD4+ T cell-depleted mice by xenotransplantation of pig proislets. Simeonovic CJ, et al. **Transplant Proc** 1989 Oct;21(5):3811–2

Islet purification by a novel immunomicrosphere cell depletion technique. Soon-Shiong P, et al. **Transplant Proc** 1990 Apr;22(2):780–1

Allogeneic and syngeneic pancreas transplantation in non-obese diabetic mice. Terada M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):960–1

Time required for grafted human fetal pancreas to reverse diabetes is dependent on the amount of tissue implanted. Tuch BE, et al. **Transplant Proc** 1989 Oct;21(5):3801–2

Insulin is advantageous to the growth of human fetal pancreas after its implantation. Tuch BE, et al. **Transplant Proc** 1989 Oct;21(5):3803–4

Intrathecal transplantation of single pancreatic endocrine cells. Tze WJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):928–30

High-yield purification of pig islets of Langerhans by flow cytometry. von Specht BU, et al. **Transplant Proc** 1990 Aug;22(4):2037–8

Effect of diabetes on the function of transplanted human islets of Langerhans. Warnock GL, et al. **Transplant Proc** 1990 Apr;22(2):804–5

The effect of early islet transplantation on prevention of nephropathy in the spontaneously diabetic BB rat. Woehrle M, et al. **Transplant Proc** 1990 Apr;22(2):819–20

Effect of transplant site on islet allograft survival in BB rats. Woehrle MF, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):925–7

Human insulinoma cells as a potential donor source for islet transplantation: isolation, in vitro characterization, and transplantation into diabetic mice. Yasunami Y, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):923

Urinary insulin as a marker of rejection in the bladder-drained pancreas allograft. Zheng T, et al. **Transplant Proc** 1990 Apr;22(2):667–8

Effect of concanavalin A on mouse islet cell transplantation. Zhu XY, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):954–6

Evidence that cyclosporine prevents rejection and recurrent diabetes in pancreatic transplants in the BB rat. Dugoni WE Jr, et al. **Transplantation** 1990 May;49(5):845–8

Failure of donor irradiation and graft lymph node reduction to prolong pancreas allograft survival in cyclosporine- and donor-specific transfusion-treated hosts. Schulak JA, et al. **Transplantation** 1990 Aug;50(2):341–3

The role of CD4+ helper T cells in the destruction of microencapsulated islet xenografts in nod mice. Weber CJ, et al. **Transplantation** 1990 Feb;49(2):396–404

Pancreas transplantation with and without duct occlusion by two glues in the diabetic rat. Evidence of normoinsulinemia but differences in intravenous glucose tolerance and islet morphology after one year. Weinzierl G, et al. **Transplantation** 1990 Mar;49(3):644–8

[The MTT-dye test for the in vitro vitality control of fresh as opposed to cryopreserved rat pancreatic islets for syngeneic intraportal islet transplantation] Gütte N, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):323–9 (Eng. Abstr.) **(Ger)**

THERAPY

Blood sugar lowering potentiality of selected Cucurbitaceae plants of Indian origin. Chandrasekar B, et al. **Indian J Med Res** 1989 Aug;90:300–5

Specific therapeutic attempts in experimental and clinical type-I diabetes. Federlin K, et al. **Klin Wochenschr** 1990; 68 Suppl 21:38–43 (31 ref.)

Trophic stimulation of the ductal/islet cell axis: a new approach to the treatment of diabetes. Rosenberg L, et al. **Surgery** 1990 Aug;108(2):191–7

Reversal of diabetes in dogs by transplantation of pure cryopreserved islets. Evans MG, et al. **Transplantation** 1990 Aug;50(2):202–6

URINE

Effect of alcohol on urinary glycosaminoglycan and protein excretion in normal and diabetic mice. Ramamurthi R, et al. **Alcohol Alcohol** 1990;25(1):45–50

Ramipril reduces albuminuria in diabetic rats fed a high protein diet. O'Brien RC, et al. **Clin Exp Pharmacol Physiol** 1989 Aug;16(8):675–80

Microtransferrinuria and microalbuminuria. II. In the rat. McCormick CP, et al. **Clin Physiol Biochem** 1990; 8(2):59–63

Renal kallikrein and hemodynamic abnormalities of diabetic kidney. Harvey JN, et al. **Diabetes** 1990 Mar;39(3):299–304

DIABETES MELLITUS, INSULIN-DEPENDENT

Diabetes mellitus type I. The present and the future. Barbosa J, et al. **Acta Med Port** 1989 Sep;Suppl 1:51S–55S (73 ref.)

Current approaches to continuous insulin replacement for insulin-dependent diabetes: pancreas transplantation and pumps. Westphal SA, et al. **Adv Intern Med** 1990;35:107–37 (99 ref.)

Efficacy of antihypertensive treatment with indapamide in patients with noninsulin-dependent diabetes and persistent microalbuminuria. Gambardella S, et al. **Am J Cardiol** 1990 May 2;65(17):46H–50H

Sonographic assessment of growth of the fetal head in diabetic pregnancies compared with normal gestations. Reece EA, et al. **Am J Perinatol** 1990 Jan;7(1):18–22

Dental status in a group of adult diabetic patients. Bačić M, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):313–6

Diabetics need not apply [editorial] Fisher JN. **Diabetes Care** 1989 Oct;12(9):659–60

Employment spectrum of IDDM. Songer TJ, et al. **Diabetes Care** 1989 Oct;12(9):615–22

Drug therapy in patients with diabetes mellitus: an audit. Paterson JR, et al. **Diabetes Res** 1989 Dec;12(4):169–71

Patterns of hospitalisation in a paediatric diabetes clinic in Sydney. Sutton DL, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):271–6

Food and nutrient intakes in Swedish diabetic children. Samuelson G, et al. **Eur J Clin Nutr** 1989 Nov;43(11):801–3

Diabetes education for the family, patient and paramedical staff. Court JM. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S81–5

Diabetic education, special consideration of Oriental patients. Tuchinda C, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S87–91

Periodontal status of Finnish adolescents with insulin-dependent diabetes mellitus. Sandholm L, et al. **J Clin Periodontol** 1989 Nov;16(10):617–20

Intravenous lidocaine and cerebral blood flow: impaired microvascular reactivity in diabetic patients. Kastrup J, et al. **J Clin Pharmacol** 1990 Apr;30(4):318–23

International symposium on problems in growth, puberty and juvenile diabetes. Firenze, Italy, April 27–28, 1989. Proceedings. **J Endocrinol Invest** 1989;12(8 Suppl 3):1–152

Morphotypes of the subgingival microflora in diabetic adolescents in Finland. Sandholm L, et al. **J Periodontol** 1989 Sep;60(9):526–8

From the Centers for Disease Control. Perinatal mortality and congenital malformations in infants born to women with insulin-dependent diabetes mellitus—United States, Canada, and Europe, 1940–1988. **JAMA** 1990 Jul 25; 264(4):437, 441

Long-term glycaemic control and diabetic retinopathy [see comments] McCance DR, et al. **Lancet** 1989 Oct 7; 2(8667):824–8 Comment in: Lancet 1990 Jan 13;335(8681):107–8.

Perinatal mortality and congenital malformations in infants born to women with insulin-dependent diabetes mellitus—United States, Canada, and Europe, 1940–1988. **MMWR** 1990 Jun 1;39(21):363–5

Jamaica (J) type diabetes in Ethiopia [letter] Petit-Petermann S. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):432

Practical management of diabetes in the tropics. Gill G. **Trop Doct** 1990 Jan;20(1):4–10 (18 ref.)

Detection of fetal structural malformations by ultrasound in insulin-dependent pregnant women. Pijlman BM, et al. **Ultrasound Med Biol** 1989;15(6):541–3

[The relation between peripheral and autonomic neuropathies in insulin-dependent diabetics] Bouček P, et al. **Cas Lek Cesk** 1990 Apr 20;129(16):494–7 (Eng. Abstr.) **(Cze)**

[Incidence and developmental interdependence of peripheral nerve disorders in type 1 diabetics] Kalita Z, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1353–6 (Eng. Abstr.) **(Cze)**

[What do we owe the families of diabetic children?] Lebl J, et al. **Cesk Pediatr** 1989 Dec;44(12):729–33 (Eng. Abstr.) **(Cze)**

[Diabetes in children and adolescents] Kopecký A. **Zdrav Aktual** 1985;205:63–8 **(Cze)**

[Polyglandular autoimmune syndrome type II] Mathiassen B, et al. **Ugeskr Laeger** 1989 Dec 11;151(50):3380–1 (Eng. Abstr.) **(Dan)**

[Diabetic papillopathy. Apropos of a case in a young insulin-dependent diabetic patient, during pregnancy] Arnaud B, et al. **Bull Soc Ophtalmol Fr** 1989 Jun-Jul; 89(6–7):903–7 (14 ref.) **(Fre)**

[Etiologic factors in premature labor in pregnant women with insulin-dependent diabetes] Pervulov M, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):539–46 (Eng. Abstr.) **(Scc)**

[Neurologic complications in juvenile diabetes] Karovičová M, et al. **Cesk Pediatr** 1989 Jul;44(7):397–8 **(Slo)**

[Behavior of urinary estriol and phospholipids of the amniotic fluid in juvenile diabetes and pregnancy. Various medico-obstetric aspects] Chávez-Azuela J, et al. **Ginecol Obstet Mex** 1977 Oct;42(252):275–85 (Eng. Abstr.) **(Spa)**

BLOOD

Red cell sorbitol concentration in relation to short- and medium-term variation of plasma glucose. Lapolla A, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):211–6

Whole blood L-lactate assay by a new differential pH method: application to metabolic investigations. Luzi L, et al. **Acta Diabetol Lat** 1990 Apr–Jun;27(2):129–38

Somatomedin-C (SM-C). Study in diabetic patients with and without retinopathy. Nardelli GM, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):217–24

Growth hormone in type I diabetic and healthy man. Schaper NC. **Acta Endocrinol (Copenh)** 1990;122 Suppl 2:1–47

Association of neutrophil alkaline phosphatase activity and glycosylated haemoglobin in diabetes mellitus. Tsavaris NB, et al. **Acta Haematol (Basel)** 1990;83(1):22–5

Studies on fatty acid metabolism in diabetics during exercise. IV. Plasma free fatty acid concentrations and hemodynamics in juvenile diabetics during exercise before and after insulin treatment. Carlström S, et al. **Acta Med Scand** 1967 Jan;181(6):747–57

Antipyretics in patients with juvenile diabetes mellitus. Comparison of salicylate and a salicylate substitute (experimental preparation PAJ-102). Kaye R, et al. **Am J Dis Child** 1966 Jul;112(1):52–5

Age, gender, and metabolic control in children and adolescents with diabetes [letter] Zimet GD, et al. **Am J Dis Child** 1989 Oct;143(10):1134–5

Glycemic control and neuropsychologic function during hypoglycemia in patients with insulin-dependent diabetes mellitus. Widom B, et al. **Ann Intern Med** 1990 Jun 15; 112(12):904–12

The effect of near-normoglycaemic control on plasma levels of coagulation factor VII and the anticoagulant proteins C and S in insulin-dependent diabetic patients. Scherrthaner G, et al. **Br J Haematol** 1989 Nov;73(3):356–9

Cord serum alpha-fetoprotein and maternal insulin-dependent diabetes mellitus. Cuckle HS, et al. **Br J Obstet Gynaecol** 1989 Dec;96(12):1450–2

Osteocalcin levels in diabetic subjects. Pedrazzoni M, et al. **Calcif Tissue Int** 1989 Dec;45(6):331–6

A comparison of direct measures of glycaemia and glycated blood proteins in insulin-dependent diabetes mellitus. Winocour PH, et al. **Clin Biochem** 1989 Dec;22(6):457–61

The relationship of plasma acetate with glucose and other blood intermediary metabolites in non-diabetic and diabetic subjects. Akanji AO, et al. **Clin Chim Acta** 1989 Oct 31; 185(1):25–34

The phospholipid composition of erythrocyte ghosts and plasma lipoproteins in diabetes type 1 in children. Watala C, et al. **Clin Chim Acta** 1990 May;188(3):211–9

Spontaneous growth hormone (GH) pulsatility is the major determinant of GH release after thyrotrophin-releasing hormone in adolescent diabetics. Edge JA, et al. **Clin Endocrinol (Oxf)** 1989 Apr;30(4):397–404

The growth hormone releasing hormone (GHRH) response to a mixed meal is blunted in young adults with insulin-dependent diabetes mellitus whereas the somatostatin response is normal. Foot AB, et al. **Clin Endocrinol (Oxf)** 1990 Feb;32(2):177–83

Hormonal response to blood volume expansion in diabetic subjects with and without autonomic neuropathy. O'Hare

JP, et al. **Clin Endocrinol (Oxf)** 1989 May;30(5):571–9

The growth hormone independent insulin–like growth factor–I binding protein BP–28 is associated with serum insulin–like growth factor–I inhibitory bioactivity in adolescent insulin–dependent diabetics. Taylor AM, et al. **Clin Endocrinol (Oxf)** 1990 Feb;32(2):229–39

Effects of improved blood glucose on insulin–induced hypoglycaemia, TRH, GnRH and exercise tests in insulin–dependent diabetes. Würzburger MI, et al. **Clin Endocrinol (Oxf)** 1990 Jun;32(6):799–807

Serum lipids in insulin–dependent diabetics are markedly altered by dietary fish oils. Mori TA, et al. **Clin Exp Pharmacol Physiol** 1988 Apr;15(4):333–7

Water–immersion–induced alterations of atrial natriuretic peptide, plasma renin activity, aldosterone and vasopressin in diabetic patients. Kokot F, et al. **Contrib Nephrol** 1989; 73:102–10; discussion 110–1

Home blood glucose monitoring, glycosylated hemoglobin and fructosamine: their relationships in diabetic patients with and without residual C–peptide secretion. Brichard SM, et al. **Diabete Metab** 1989 Nov–Dec;15(6):388–93

Low molecular weight heparin restores antithrombin III activity from hyperglycemia induced alterations. Ceriello A, et al. **Diabete Metab** 1990 Mar–Apr;16(2):86–92

Depletion in choline containing phospholipids of LpB particles in adequately controlled type I insulin–dependent diabetes mellitus. Fievet C, et al. **Diabete Metab** 1990 Mar–Apr;16(2):64–9

Protein composition in resting and activated platelets of type I diabetic patients. Maresca M, et al. **Diabete Metab** 1989 Sep–Oct;15(5):242–6

Sodium metabolism in insulin dependent diabetic patients. Role of insulin and atrial natriuretic peptide. Nosadini R, et al. **Diabete Metab** 1989;15(5 Pt 2):301–5

Pulsatile rather than continuous glucagon infusion leads to greater metabolic derangements in insulin–dependent diabetic subjects. Paolisso G, et al. **Diabete Metab** 1990 Jan–Feb;16(1):42–7

Effects of omega–3 fish oils on plasma lipids, lipoprotein composition, and postheparin lipoprotein lipase in women with IDDM. Bagdade JD, et al. **Diabetes** 1990 Apr; 39(4):426–31

Whole–plasma and high–density lipoprotein subfraction surface lipid composition in IDDM men. Bagdade JD, et al. **Diabetes** 1989 Oct;38(10):1226–30

Possible role for increased C4b–binding–protein level in acquired protein S deficiency in type I diabetes. Ceriello A, et al. **Diabetes** 1990 Apr;39(4):447–9

Insulin regulation of lipolysis in nondiabetic and IDDM subjects. Jensen MD, et al. **Diabetes** 1989 Dec; 38(12):1595–601

Altered cellular Ca2+ and Na+ transport in diabetes mellitus. Mazzanti L, et al. **Diabetes** 1990 Jul;39(7):850–4

In vivo relationship between insulin clearance and action in healthy subjects and IDDM patients. Nijs HG, et al. **Diabetes** 1990 Mar;39(3):333–9

Effect of omega–3 fatty acids in diet of type I diabetic subjects on lipid values and hemorheological parameters. Rillaerts EG, et al. **Diabetes** 1989 Nov;38(11):1412–6

Hypoglycemia in IDDM [letter] Bernstein RK. **Diabetes Care** 1990 Jul;13(7):810–1

Deception in diabetes research [letter; comment] Dedrick RF. **Diabetes Care** 1990 Feb;13(2):182–4 Comment on: Diabetes Care 1989 Mar;12(3):184–8.

Failure of nocturnal hypoglycemia to cause daytime hyperglycemia in patients with IDDM. Hirsch IB, et al. **Diabetes Care** 1990 Feb;13(2):133–42

Blood glucose area under the curve. Methodological aspects. Le Floch JP, et al. **Diabetes Care** 1990 Feb;13(2):172–5

Fish oil–induced changes in apolipoproteins in IDDM subjects. Mori TA, et al. **Diabetes Care** 1990 Jul; 13(7):725–32

Intranasal glucagon as remedy for hypoglycemia. Studies in healthy subjects and type I diabetic patients. Pontiroli AE, et al. **Diabetes Care** 1989 Oct;12(9):604–8

Differences between prebreakfast and late afternoon glycemic responses to exercise in IDDM patients. Ruegemer JJ, et al. **Diabetes Care** 1990 Feb;13(2):104–10

Tissue plasminogen activator inhibition in diabetes mellitus. Small M, et al. **Diabetes Care** 1989 Oct;12(9):655–8

Relative clinical usefulness of glycosylated serum albumin and fructosamine during short–term changes in glycemic control in IDDM. Winocour PH, et al. **Diabetes Care** 1989 Nov–Dec;12(10):665–72

Neutrophil activation detected by increased neutrophil elastase activity in type 1 (insulin–dependent) diabetes mellitus. Collier A, et al. **Diabetes Res** 1989 Mar; 10(3):135–8

Carbohydrate, lipid and amino acid metabolism of insulin–dependent diabetic patients regulated by an artificial beta–cell unit. Foss MC, et al. **Diabetes Res** 1989 May; 11(1):1–8

Does non–enzymatic glycosylation affect complement function in diabetes? Peake PW, et al. **Diabetes Res** 1989 Jul;11(3):109–14

Adrenal androgens in insulin–dependent diabetes mellitus. Small M, et al. **Diabetes Res** 1989 Jun;11(2):93–5

Effects of different insulin administrations on plasma amino acid profile in insulin–dependent diabetic patients. Trevisan R, et al. **Diabetes Res** 1989 Oct;12(2):57–62

Radioimmunoassay of glycated serum protein using monoclonal antibody to glucitollysine and coomassie–brilliant–blue–coated polystyrene beads. Yamamoto Y, et al. **Diabetes Res** 1989 May;11(1):45–9

Prior long term glycaemic control and insulin therapy in insulin–dependent diabetic adolescents with microalbuminuria. Kalk WJ, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):83–8

The relevance of persistent C–peptide secretion in type 1 (insulin–dependent) diabetes mellitus to glycaemic control and diabetic complications. Winocour PH, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):23–35

The role of hyperglycaemia–induced alterations of antithrombin III and factor X activation in the thrombin hyperactivity of diabetes mellitus. Ceriello A, et al. **Diabetic Med** 1990 May;7(4):343–8

Intramuscular versus subcutaneous injection of unmodified insulin: consequences for blood glucose control in patients with type 1 diabetes mellitus. Vaag A, et al. **Diabetic Med** 1990 May;7(4):335–42

An analysis of glycosylated blood proteins and blood glucose profiles over one year in patients with type 1 diabetes. Winocour PH, et al. **Diabetic Med** 1989 Nov;6(8):709–16

Circulating insulin–like growth factor I in type 1 (insulin–dependent) diabetic patients with retinopathy. Arner P, et al. **Diabetologia** 1989 Oct;32(10):753–8

Evidence for a hyperglycaemia–dependent decrease of antithrombin III–thrombin complex formation in humans. Ceriello A, et al. **Diabetologia** 1990 Mar;33(3):163–7

Plasma adrenaline kinetics in type 1 (insulin–dependent) diabetic patients with and without autonomic neuropathy. Dejgaard A, et al. **Diabetologia** 1989 Nov;32(11):810–3

Alterations in serum lipids and apolipoproteins in male type 1 (insulin–dependent) diabetic patients with microalbuminuria. Dullaart RP, et al. **Diabetologia** 1989 Sep;32(9):685–9

Alcohol causes hypoglycaemic unawareness in healthy volunteers and patients with type 1 (insulin–dependent) diabetes. Kerr D, et al. **Diabetologia** 1990 Apr;33(4):216–21

Platelet aggregability during the first two years of type 1 (insulin–dependent) diabetes mellitus in children. Kobbah AM, et al. **Diabetologia** 1989 Oct;32(10):729–35

Effect of protein kinase C modulators on the leucocyte Na+/H+ antiport in type 1 (insulin–dependent) diabetic subjects with albuminuria. Ng LL, et al. **Diabetologia** 1990 May;33(5):278–84

Leucocyte Na+/H+ antiport activity in type 1 (insulin–dependent) diabetic patients with nephropathy. Ng LL, et al. **Diabetologia** 1990 Jun;33(6):371–7

The prevalence of impaired glucose counter–regulation during an insulin–infusion test in insulin–treated diabetic patients prone to severe hypoglycaemia. Sjöbom NC, et al. **Diabetologia** 1989 Nov;32(11):818–25

Proinsulin and C–peptide at onset and during 12 months cyclosporin treatment of type 1 (insulin–dependent) diabetes mellitus. Snorgaard O, et al. **Diabetologia** 1990 Jan; 33(1):36–42

Direct relationship of antepartum glucose control and fetal erythropoietin in human type 1 (insulin–dependent) diabetic pregnancy. Widness JA, et al. **Diabetologia** 1990 Jun; 33(6):378–83

Plasma free N–terminal fibronectin 30–kDa domain as a marker of endothelial dysfunction in type 1 diabetes mellitus. Skrha J, et al. **Eur J Clin Invest** 1990 Apr; 20(2):171–6

Influence of insulin on albumin and non–albumin protein fractional synthetic rates in post–absorptive type I diabetic patients. Pacy PJ, et al. **Eur J Clin Nutr** 1990 May; 44(5):343–9

Seasonal variations of glycosylated haemoglobin in diabetic children [letter; comment] Verrotti A, et al. **Eur J Pediatr** 1989 Nov;149(2):146–7 Comment on: Eur J Pediatr 1989 Jun;148(7):597–9.

Influence of polyethylene glycol (PEG) extraction on the C–peptide determination in sera from insulin–dependent diabetic patients with circulating insulin antibodies. Besch W, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):119–22

Circulating levels of placental protein 12 (PP 12) in diabetic pregnancy complicated by retinopathy. Briese V, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):105–9

Blood platelet behaviour in patients with a type I diabetes mellitus. Spangenberg P, et al. **Exp Clin Endocrinol** 1989; 94(3):329–37

High levels of circulating met–enkephalin in pregnant and menstruating type 1 diabetic women. Negri M, et al. **Gynecol Endocrinol** 1990 Mar;4(1):25–31

Elevated platelet activation in type I diabetics with chronic complications under long–term near–normoglycemic control. Tschoepe D, et al. **Haemostasis** 1990;20(2):93–8

Effects of ketoacidosis and puberty on basal and TRH–stimulated thyroid hormones and TSH in children with diabetes mellitus. Chiarelli F, et al. **Horm Metab Res** 1989 Sep;21(9):494–7

Short tertatolol treatment does not impair the hormone and metabolic responses to exercise and hypoglycemia in diabetics. Lantz B, et al. **Horm Metab Res** 1989 Oct; 21(10):561–5

Serum fructosamine in assessment of diabetic control and relation to thyroid function. Sako Y, et al. **Horm Metab Res** 1989 Dec;21(12):669–72

Platelet sensitivity in vitro to the prostacyclin analogue iloprost in diabetic patients. Vicari AM, et al. **Horm Metab Res** 1989 Nov;21(11):616–8

Effects of oxytocin delivery on counter–regulatory hormone response in insulin–dependent (type I) diabetic subjects. Paolisso G, et al. **Horm Res** 1989;31(5–6):250–5

Differential effect of type I and type II diabetes mellitus on serum ampicillin levels. Adithan C, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Oct;27(10):493–8

Spontaneous remission of insulin dependent diabetes mellitus [letter] Ram S. **J Assoc Physicians India** 1989 Nov; 37(11):730

Estimates of normal binding of a human recombinant alpha interferon to peripheral blood mononuclear cells from a study matching healthy subjects to subjects with insulin dependent diabetes. Boucher BJ, et al. **J Biol Regul Homeost Agents** 1989 Apr–Jun;3(2):47–9

Alterations in circulating human chorionic gonadotropin free alpha–subunit in insulin–dependent diabetic pregnancy: correlation with maternal characteristics. Camus–Bablon F, et al. **J Clin Endocrinol Metab** 1990 Jul;71(1):46–52

Attenuated pulsatile release of prolactin in men with insulin–dependent diabetes mellitus. Iranmanesh A, et al. **J Clin Endocrinol Metab** 1990 Jul;71(1):73–8

Androgens and estrogens in postmenopausal insulin–treated diabetic women. Nyholm H, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):946–9

Thyroid hormones low levels in insulin–dependent diabetic young people. Becherucci P, et al. **J Endocrinol Invest** 1989; 12(8 Suppl 3):151–2

Serum lipids in 88 children with type I diabetes compared with 1454 control subjects. Pinelli L, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):145–6

Growth hormone response to thyrotropin releasing hormone and placebo in a group of insulin dependent diabetic patients. Valentini U, et al. **J Endocrinol Invest** 1989 Oct; 12(9):643–6

Atrial natriuretic factor in hypertensive and normotensive insulin–dependent diabetics. Opocher G, et al. **J Hypertens Suppl** 1989 Dec;7(6):S236–7

Clinofibrate therapy raises high–density lipoprotein levels and lowers atherogenic index in diabetes mellitus patients. Okada S, et al. **J Int Med Res** 1989 Nov–Dec;17(6):521–5

The predictive capability of the glycaemic response to spaghetti in non–insulin dependent (NIDDM) and insulin dependent (IDDM) diabetic subjects. Rasmussen O, et al. **J Intern Med** 1990 Aug;228(2):97–101

Nucleated erythrocytes in healthy infants and in infants of diabetic mothers. Green DW, et al. **J Pediatr** 1990 Jan; 116(1):129–31

Plasma atrial natriuretic peptide concentrations in children with insulin–dependent diabetes mellitus. Smoyer WE, et al. **J Pediatr** 1990 Jan;116(1):108–11

Glucose control and renal and retinal complications of diabetes mellitus [letter; comment] **JAMA** 1990 Aug 1; 264(5):573–4 Comment on: JAMA 1989 Feb 24;261(8):1155–60.

Rotation of the anatomic regions used for insulin injections and day–to–day variability of plasma glucose in type I diabetic subjects. Bantle JP, et al. **JAMA** 1990 Apr 4; 263(13):1802–6

Increased serum levels of lipoprotein(a) in diabetes mellitus and their reduction with glycemic control [letter; comment] Bruckert E, et al. **JAMA** 1990 Jan 5;263(1):35–6 Comment on: JAMA 1989 Apr 14;261(14):2013–4.

Long–term blood glucose control and diabetic retinopathy [letter; comment] Finotti P, et al. **Lancet** 1990 Jan 13; 335(8681):107–8 Comment on: Lancet 1989 Oct 7;2(8667):824–8.

Reduced islet–amyloid polypeptide in insulin–dependent diabetes mellitus [letter; comment] Hartter E, et al. **Lancet** 1990 Apr 7;335(8693):854 Comment on: Lancet 1990 Jan 6;335(8680):60.

Comparison of insulin analogue B9AspB27Glu and soluble human insulin in insulin–treated diabetes. Kang S, et al. **Lancet** 1990 Feb 10;335(8685):303–6

Increase of endothelial cell growth by sera from diabetic patients with proliferative retinopathy [letter] [see comments] Setiadi H, et al. **Lancet** 1989 Oct 28;2(8670):1050 Comment in: Lancet 1989 Dec 2;2(8675):1329. Comment in: Lancet 1990 Mar 10;335(8689):602–3.

Serum pancreatic polypeptide and glucagon immunoreactivity in fasting healthy and diabetic children. Walczak M, et al. **Mater Med Pol** 1989 Jan–Mar; 21(1):38–42

Decrease of serum immunoglobulin M levels in some diabetic patients. Cheţa D, et al. **Med Interne** 1989 Jul–Sep; 27(3):219–23

Persistent abnormalities of the metabolism of an oral glucose load in insulin–treated type I diabetics [letter] Frayn K, et al. **Metabolism** 1990 Sep;39(9):1000–1

Adverse effects of obesity on lipid and lipoprotein levels in insulin–dependent and non–insulin–dependent diabetes. Laakso M, et al. **Metabolism** 1990 Feb;39(2):117–22

Effects of intraperitoneal versus subcutaneous insulin administration on lipoprotein metabolism in type I diabetes. Ruotolo G, et al. **Metabolism** 1990 Jun;39(6):598–604

Specific binding of angiotensin II and atrial natriuretic factor in non–nephropathic type I diabetes mellitus. Mann JF, et al. **Nephrol Dial Transplant** 1989;4(6):530–4

Prospective study of the impact of hypertension upon kidney function in diabetes mellitus. Walker WG, et al. **Nephron** 1990;55 Suppl 1:21–6

Subcutaneous injection with an insulin pen. Insulin absorption and plasma concentrations of glucose and free insulin. de Meijer PH, et al. **Neth J Med** 1990 Feb;36(1–2):4–12

Lipid and apolipoprotein compositions of two species of ApoA-I containing lipoproteins in young girls with insulin-dependent diabetes mellitus. Ohta T, et al. **Pediatr Res** 1990 Jul;28(1):42-5

The acute effects of glucosidase inhibition on post-meal glucose increments in insulin-dependent diabetics. Wing J, et al. **S Afr Med J** 1990 Mar 17;77(6):286-8

Early morning glycaemia and the metabolic consequences of delaying breakfast/morning insulin. A comparison of continuous subcutaneous insulin infusion and multiple injection therapy with human isophane or human ultralente insulin at bedtime in insulin-dependent diabetics. Haakens K, et al. **Scand J Clin Lab Invest** 1989 Nov;49(7):653-9

Comparison of ultracentrifugation and a precipitation method for high-density lipoprotein cholesterol quantitation in insulin-dependent diabetic patients. Jensen T, et al. **Scand J Clin Lab Invest** 1989 Oct;49(6):589-93

Primary platelet activation in recent-onset type 1 diabetes mellitus. Vicari AM, et al. **Scand J Clin Lab Invest** 1990 Jun;50(4):429-32

Monocyte function in IDDM patients and healthy individuals. Mølvig J, et al. **Scand J Immunol** 1990 Sep; 32(3):297-311

Platelet thromboxane A2/endoperoxide (TXA2/PGH2) receptors in type I diabetes mellitus [letter] Jaschonek K, et al. **Thromb Haemost** 1989 Jun 30;61(3):535-6

Platelet aggregation and nutritional status in insulin dependent diabetes mellitus [letter] Kunz F, et al. **Thromb Haemost** 1989 Dec 29;62(4):1147-8

High heparin released platelet factor 4 in uncomplicated type 1 diabetes mellitus. Cortellaro M, et al. **Thromb Res** 1990 Jun 15;58(6):571-6

Spontaneous fibrinolytic activity in insulin-dependent diabetes mellitus [letter] Jensen T, et al. **Thromb Res** 1990 Jun 15;58(6):669-70

Performance and clinical significance of the new fructosamine assay in diabetic patients. Melzi d'Eril GV, et al. **Wien Klin Wochenschr Suppl** 1990;180:60-3; discussion 78-81

[The correlation of glycohemoglobin (HbA1) with the parameters of blood glucose control during the treatment of diabetes mellitus] Khristov V, et al. **Vutr Boles** 1989; 28(6):48-52 (Eng. Abstr.) (Bul)

[Dynamic changes in the hemostatic indices of diabetics during biostator control] Petkova M, et al. **Vutr Boles** 1989; 28(5):41-5 (Eng. Abstr.) (Bul)

[Compensation in diabetes and serum insulin levels in type I diabetics during insulin pump therapy and after changing to treatment with a combination of short- and long-acting insulin] Páv J, et al. **Cas Lek Cesk** 1990 May 11; 129(19):596-601 (Eng. Abstr.) (Cze)

[Fructosamine--a dynamic indicator of compensation in diabetes] Skrha J, et al. **Cas Lek Cesk** 1990 Mar 23; 129(12):357-60 (Eng. Abstr.) (Cze)

[The importance of C-peptide determination in the treatment and prognosis of type II diabetes] Válek J, et al. **Cas Lek Cesk** 1990 Feb 2;129(5):142-6 (Eng. Abstr.) (Cze)

[Diagnosis and evaluation of metabolic control in diabetes mellitus (letter)] Lytken Larsen M. **Ugeskr Laeger** 1990 Mar 19;152(12):832 (Dan)

[Growth hormone in developmental diabetic retinopathy] Grange JD, et al. **Bull Soc Ophtalmol Fr** 1989 May; 89(5):699-700, 703-4 (Fre)

[Insulin pharmacokinetics in insulin-dependent diabetics. Mathematical models] Beuscart R, et al. **Diabete Metab** 1989 Sep-Oct;15(5):233-41 (Eng. Abstr.) (Fre)

[Comparative effects of couscous and pasta on glycemia in normal subjects and type I diabetics] Jamel N, et al. **Diabete Metab** 1990 Jan-Feb;16(1):37-41 (Eng. Abstr.) (Fre)

[Role of and current technical possibilities for intracorporeal determination of blood glucose in the treatment of insulin-dependent diabetes mellitus] Fischer U, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:247-66 (77 ref.) (Fre)

[Evaluation of the assay of serum fructosamine in the surveillance of diabetes in children and adolescents] Berrah H, et al. **Pediatrie** 1989;44(4):323-5 (Eng. Abstr.) (Fre)

[Platelet aggregation in diabetes mellitus in children] Khiari M, et al. **Pediatrie** 1989;44(4):309-12 (30 ref.) (Eng. Abstr.) (Fre)

[Value of plasma fructosamine in non-diabetic and diabetic chronic renal failure] Delattre J, et al. **Presse Med** 1989 Nov 4;18(36):1781-4 (Eng. Abstr.) (Fre)

[Lipoprotein and apolipoprotein levels in young insulin-dependent diabetic patients. Relations with glycosylated hemoglobin and fructosamine] Willems D, et al. **Presse Med** 1990 Jan 6-13;19(1):17-20 (Eng. Abstr.) (Fre)

["Glucosensor Unitec Ulm". A portable, continuously measuring glucose sensor and monitor] Zier H, et al. **Biomed Tech (Berlin)** 1990 Jan-Feb;35(1-2):2-4 (Eng. Abstr.) (Ger)

[The significance of HbA1 determination in children] Kosłowski H, et al. **Pediatr Grenzgeb** 1990;29(1):25-9 (31 ref.) (Eng. Abstr.) (Ger)

[Evaluation of Pen meters for blood glucose analysis in ambulatory diabetics (published erratum appears in Schweiz Med Wochenschr 1990 Mar 17;120(11):392)] Spinas GA, et al. **Schweiz Med Wochenschr** 1990 Feb 3; 120(5):125-8 (Eng. Abstr.) (Ger)

[Diagnosis of the diabetic metabolic status using fructosamine (and HbA1c) determination. The glycation quotient Glyc-Q, the glycation nomogram] Henrichs HR. **Wien Klin Wochenschr Suppl** 1990;180:64-9; discussion 78-81 (Eng. Abstr.) (Ger)

[Fructosamine values in venous and capillary blood] Lemke C, et al. **Wien Klin Wochenschr Suppl** 1990;180:38-9; discussion 57-9 (Eng. Abstr.) (Ger)

[Effect of a change in posture on the diurnal variations of fructosamine concentration in diabetic patients] Willms B, et al. **Wien Klin Wochenschr Suppl** 1990;180:44-8; discussion 57-9 (Eng. Abstr.) (Ger)

[Disorders of lipid metabolism in diabetes mellitus] Biesenbach G. **Wien Med Wochenschr Suppl** 1989;105:9-17 (131 ref.) (Eng. Abstr.) (Ger)

[Changes in carbohydrate and lipid metabolism and modification of diabetes mellitus by hormonal contraceptives] Hopp H, et al. **Z Arztl Fortbild (Jena)** 1990; 84(1-2):31-4 (20 ref.) (Ger)

[The reliability of the blood glucose test strip "Glucosignal" in self monitoring of blood glucose by diabetic patients with diabetic retinopathy and acquired color vision disorders] Pilz D, et al. **Z Arztl Fortbild (Jena)** 1989; 83(23):1175-8 (Ger)

[Blood glucose self-monitoring with the Glucosignal test strip in routine practice--experiences of a district diabetes center] Groh G. **Z Gesamte Inn Med** 1990 Jan 1;45(1):12-4 (Eng. Abstr.) (Ger)

[The suitability of the particle count apparatus laboratory scale PSL-1 (Medicor, Budapest) for the sensitive detection of an increased spontaneous aggregation readiness of thrombocytes] Mindner K, et al. **Z Med Lab Diagn** 1989; 30(6):341-2 (Ger)

[Placental protein 12 (PP 12)/insulin-like growth factor binding protein (IGF-bp) in pregnancy in metabolically healthy patients and diabetic patients with retinopathy] Briese V, et al. **Zentralbl Gynakol** 1989;111(18):1215-9 (Eng. Abstr.) (Ger)

[Serum fructosamine studies in pediatric diabetology] Acsai L, et al. **Orv Hetil** 1989 Oct 1;130(40):2147-50 (30 ref.) (Eng. Abstr.) (Hun)

[Follow-up of blood and urinary amino acid concentrations in diabetic ketoacidosis in children] Szabó A, et al. **Orv Hetil** 1990 Mar 25;131(12):615-9 (Eng. Abstr.) (Hun)

[Evaluation of various hemorheologic parameters in diabetes mellitus] Cella A, et al. **Boll Soc Ital Biol Sper** 1990 Apr; 66(4):335-42 (Eng. Abstr.) (Ita)

[Hyperglycemia in newborn infants. I. Transient hyperglycemia in the neonatal period] Bialkowski J, et al. **Endokrynol Pol** 1989;40(2):85-7 (9 ref.) (Pol)

[Serum levels of calcitonin, parathyroid hormone and 25-hydroxycholecalciferol in patients with diabetes mellitus] Blasiak M, et al. **Endokrynol Pol** 1989;40(5):241-50 (Eng. Abstr.) (Pol)

[Occurrence of early-morning hyperglycemia (dawn phenomenon) in patients with diabetes mellitus type 1 and 2] Jasik M, et al. **Pol Arch Med Wewn** 1989 Apr; 81(4):207-13 (Eng. Abstr.) (Pol)

[Activity of factor XIII and various lipid components of blood serum in patients with diabetes mellitus] Zarzycka B, et al. **Pol Arch Med Wewn** 1987 Mar;77(3):94-100 (Eng. Abstr.) (Pol)

[Early-morning hyperglycemia in patients with diabetes mellitus types 1 and 2] Jasik M. **Wiad Lek** 1989 Apr 30; 42(8):529-32 (11 ref.) (Eng. Abstr.) (Pol)

[Control of the metabolic state of diabetic patients by determining the concentration of serum glycosylated proteins (the fructosamine test)] Dogaru C, et al. **Rev Med Interna [Med Interna]** 1989 Sep-Oct;41(5):449-58 (Eng. Abstr.) (Rum)

[Chemiluminescence of erythrocytes of various age groups in patients with diabetes mellitus] Sukhanova LIa, et al. **Lab Delo** 1989;(12):33-6 (Eng. Abstr.) (Rus)

[Clinico-diagnostic significance of fibronectin determination in diabetes mellitus in children] Popova VA, et al. **Pediatriia** 1990;(6):9-12 (Eng. Abstr.) (Rus)

[The insulin and proinsulin levels in patients with newly detected diabetes mellitus] Arbuzova MI, et al. **Probl Endokrinol (Mosk)** 1989 Sep-Oct;35(5):28-31 (Eng. Abstr.) (Rus)

[C-peptide, diabetogenic factor and the blood anticoagulating system in patients with the insulin-dependent type of diabetes mellitus before and after heparin therapy] Balabolkin MI, et al. **Probl Endokrinol (Mosk)** 1990 Jan-Feb;36(1):25-8 (Eng. Abstr.) (Rus)

[The content of basic apoproteins A1 and B and lipids in the blood serum of women with type-I and -II diabetes mellitus and ischemic heart disease] Madanat AIa, et al. **Probl Endokrinol (Mosk)** 1989 Jul-Aug;35(4):3-7 (Eng. Abstr.) (Rus)

[Comparative evaluation of the lipid metabolic indices of children with a hereditary predisposition for diabetes and in manifest diabetes mellitus] Marchenko LF, et al. **Probl Endokrinol (Mosk)** 1989 Jul-Aug;35(4):7-12 (Eng. Abstr.) (Rus)

[The insulin receptor function of mononuclear leukocytes in pregnant women with diabetes mellitus] Mikaelian NP, et al. **Probl Endokrinol (Mosk)** 1990 Mar-Apr;36(2):28-31 (Eng. Abstr.) (Rus)

[Disorders of blood coagulation and microcirculation in diabetics] Titova SI, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):3-7 (Eng. Abstr.) (Rus)

[Recovery of the anticoagulation system function in patients with insulin-dependent diabetes by neutralization of the activity of diabetogenic factor] Kudriashov BA, et al. **Vopr Med Khim** 1990 May-Jun;36(3):79-81 (Eng. Abstr.) (Rus)

[Activity of antioxidative enzymes and lipid peroxidation in erythrocytes of children with diabetes mellitus] Sal'nikova LA, et al. **Vopr Med Khim** 1990 Jan-Feb;36(1):39-41 (Eng. Abstr.) (Rus)

[Disorders of the hormonal and immune status of patients with newly detected diabetes mellitus] Dubrovskaia GV, et al. **Vrach Delo** 1989 Aug;(8):58-60 (Eng. Abstr.) (Rus)

[Interrelations of trypsin-type serine proteases with the hemostatic system in diabetics] Vaniurikhina LT, et al. **Vrach Delo** 1989 Jul;(7):88-90 (Eng. Abstr.) (Rus)

[Muscular exertion and sports in diabetes] Gaćinović S, et al. **Med Arh** 1984;38(4):153-6 (Scr)

[Clinical evaluation of glycohemoglobin and serum glycoproteins using affinity chromatography in children with type I diabetes mellitus] Díaz Gómez NM, et al. **An Esp Pediatr** 1990 Apr;32(4):307-13 (32 ref.) (Eng. Abstr.) (Spa)

[Serum osteocalcin in insulin-dependent diabetic patients] Díaz Pérez de Madrid J, et al. **Med Clin (Barc)** 1989 Dec 2;93(18):690-2 (Eng. Abstr.) (Spa)

[The dawn phenomenon in diabetic pregnancy] Fernández I, et al. **Med Clin (Barc)** 1990 Jan 20;94(2):46-8 (Eng. Abstr.) (Spa)

[Evaluation of diabetes knowledge in patients with insulin-dependent diabetes mellitus. Influential factors and analysis of its relation with blood glucose control] Costa Mestanza CJ, et al. **Rev Clin Esp** 1989 Jul-Aug;185(3):113-8 (Eng. Abstr.) (Spa)

[2,070 simultaneous determinations of blood glucose, glucosylated hemoglobin and fructosamine as index of metabolic control in 519 diabetic patients] Gómez Reyes D, et al. **Rev Clin Esp** 1989 Nov;185(7):354-8 (Eng. Abstr.) (Spa)

[Evidence of abnormal kidney processing of uric acid in patients with insulin-dependent diabetes mellitus] González-Sicilia de Llamas L, et al. **Rev Clin Esp** 1990 Mar;186(4):159-62 (Eng. Abstr.) (Spa)

CHEMICALLY INDUCED

Insulin-dependent diabetes mellitus associated with danazol. Seifer DB, et al. **Am J Obstet Gynecol** 1990 Feb; 162(2):474-5

Atypical environmental factor in expressing type I (insulin-dependent) diabetes mellitus [letter] Quatraro A, et al. **J Endocrinol Invest** 1990 Jan;13(1):79

Post-transplant diabetes mellitus in renal allograft recipients: a matched-pair control study. von Kiparski A, et al. **Nephrol Dial Transplant** 1990;5(3):220-5

CLASSIFICATION

[C-peptide measurement in the classification of diabetes mellitus and in the assessment of requirements for insulin treatment] Gjessing HJ. **Ugeskr Laeger** 1990 Feb 26; 152(9):588-93 (30 ref.) (Eng. Abstr.) (Dan)

COMPLICATIONS

Two case reports of macrovascular complications in fibrocalculous pancreatic diabetes. Mohan V, et al. **Acta Diabetol Lat** 1989 Oct-Dec;26(4):345-9

Effect of thalidomide on the incidence of iodine-induced and spontaneous lymphocytic thyroiditis and spontaneous diabetes mellitus in the BB/Wor rat. Lueprasitsakul W, et al. **Acta Endocrinol (Copenh)** 1990 Jul;123(1):79-83

Polyglandular autoimmune syndrome type II in patients with idiopathic Addison's disease. Papadopoulos KI, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):472-8

Refraction in diabetics during metabolic dysregulation, acute or chronic. With special reference to the diabetic myopia concept. Fledelius HC, et al. **Acta Ophthalmol (Copenh)** 1990 Jun;68(3):275-80

Diabetic retinopathy related to degree of albuminuria and tubular (low molecular weight) proteinuria in insulin-dependent (type I) diabetes mellitus. Nielsen NV, et al. **Acta Ophthalmol (Copenh)** 1990 Jun;68(3):270-4

Microalbuminuria in diabetic children and adolescents. Relationship with puberty and growth hormone. Salardi S, et al. **Acta Paediatr Scand** 1990 Apr;79(4):437-43

Prevalence and significance of left ventricular filling abnormalities determined by Doppler echocardiography in young type I (insulin-dependent) diabetic patients. Paillole C, et al. **Am J Cardiol** 1989 Nov 1;64(16):1010-6

Nutritional factors in diabetics with and without retinopathy. Roy MS, et al. **Am J Clin Nutr** 1989 Oct;50(4):728-30

Microalbuminuria in adolescents with insulin-dependent diabetes mellitus. Cook JJ, et al. **Am J Dis Child** 1990 Feb; 144(2):234-7

Long-term efficacy of cisapride in diabetic gastroparesis. Horowitz M, et al. **Am J Med** 1990 Feb;88(2):195-6

Effective treatment of bulimia with fluoxetine, a serotonin reuptake inhibitor, in a patient with type I diabetes mellitus. Ramirez LC, et al. **Am J Med** 1990 May;88(5):540-1

Subacute disseminated mucormycosis in a diabetic male. Nolan RL, et al. **Am J Med Sci** 1989 Oct;298(4):252-5

The pattern electroretinogram in diabetes. Prager TC, et al.

Am J Ophthalmol 1990 Mar 15;109(3):279–84
Does pregnancy alter the rate of progression of diabetic nephropathy? Reece EA, et al. **Am J Perinatol** 1990 Apr; 7(2):193–7
Diabetes and hypotension [letter] Shorten G, et al. **Anaesthesia** 1990 Feb;45(2):169
Emphysematous cystitis: a complication of urinary tract infection occurring predominantly in diabetic women. Ankel F, et al. **Ann Emerg Med** 1990 Apr;19(4):404–6
Hand infections in the diabetic and the diabetic renal transplant recipient. Francel TJ, et al. **Ann Plast Surg** 1990 Apr;24(4):304–9
Concurrent onset of adult onset Still's disease and insulin dependent diabetes mellitus. Sibley JT. **Ann Rheum Dis** 1990 Jul;49(7):547–8
Pregnancy after brompheniramine treatment of a diabetic with incomplete emission failure. Schill WB. **Arch Androl** 1990;25(1):101–4
Obesity and diabetic control. Abusrewil SS, et al. **Arch Dis Child** 1989 Sep;64(9):1313–5
Early markers of the renal complications of insulin dependent diabetes mellitus [see comments] Gibb DM, et al. **Arch Dis Child** 1989 Jul;64(7):984–91 Comment in: Arch Dis Child 1990 Feb;65(2):247.
Outpatient management of uncomplicated lower-extremity infections in diabetic patients. Lipsky BA, et al. **Arch Intern Med** 1990 Apr;150(4):790–7
Diabetic diarrhea. Pathophysiology, diagnosis, and management. Ogbonnaya KI, et al. **Arch Intern Med** 1990 Feb;150(2):262–7 (63 ref.)
Diabetic nephropathy. An update [see comments] Reddi AS, et al. **Arch Intern Med** 1990 Jan;150(1):31–43 (178 ref.) Comment in: Arch Intern Med 1990 Jan;150(1):26–8.
Hearing disorders in patients with insulin-dependent diabetes mellitus. Parving A, et al. **Audiology** 1990;29(3):113–21
Proliferative retinopathy and nephropathy at presentation in young insulin dependent diabetics. O'Hare JA. **BMJ** 1990 Mar 3;300(6724):579–80
Motor vehicle driving among diabetics taking insulin and non-diabetics. Stevens AB, et al. **BMJ** 1989 Sep 2; 299(6699):591–5
Sjögren's syndrome: association with type-1 diabetes mellitus [see comments] Binder A, et al. **Br J Rheumatol** 1989 Dec; 28(6):518–20 Comment in: Br J Rheumatol 1990 Apr;29(2):157–8.
Sjögren's syndrome and diabetes mellitus [letter; comment] Pal B. **Br J Rheumatol** 1990 Apr;29(2):157–8 Comment on: Br J Rheumatol 1989 Dec;28(6):518–20.
Myasthenia gravis and insulin-dependent diabetes mellitus in two adolescents. Kuo CC, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Feb;22(1):31–7
Diabetic focal myelopathy. Anderson TJ, et al. **Clin Exp Neurol** 1987;24:139–43
Insulin-dependent diabetes mellitus and eating disorders: a prevalence study. Powers PS, et al. **Compr Psychiatry** 1990 May-Jun;31(3):205–10
Systolic hypertension in IDDM patients with hyperfiltration and normal albumin excretion rates [letter] Azevedo MJ, et al. **Diabetes Care** 1990 Apr;13(4):452–3
Diabetes complications and glycemic control. The Pittsburgh Prospective Insulin-Dependent Diabetes Cohort Study Status Report after 5 yr of IDDM. D'Antonio JA, et al. **Diabetes Care** 1989 Nov-Dec;12(10):694–70
Screening for thyroid disease in children with IDDM. McKenna MJ, et al. **Diabetes Care** 1990 Jul;13(7):801–3
Low-molecular-weight proteinuria in insulin-dependent diabetes mellitus: a study of the urinary excretion of beta 2-microglobulin and retinol-binding protein in alkalinized patients with and without microalbuminuria. Watts GF, et al. **Diabetes Res** 1989 Sep;12(1):31–6
Subclinical hyponatremia, hyperkalemia and hypomagnesemia in patients with poorly controlled diabetes mellitus. Pun KK, et al. **Diabetes Res Clin Pract** 1989 Sep 18;7(3):163–7
Isolated symptomatic peripheral neuropathy in type 1 insulin-dependent diabetes mellitus. Ramirez L, et al. **Diabetes Res Clin Pract** 1989 Sep 18;7(3):227–33
Thyroid hormone replacement and growth of children with subclinical hypothyroidism and diabetes. Chase HP, et al. **Diabetic Med** 1990 May;7(4):299–303
Patterns of hyperinsulinaemia in type 1 diabetic patients with and without nephropathy. Pickup JC, et al. **Diabetic Med** 1989 Nov;6(8):685–91
Prevalence of hypertension in type 1 (insulin-dependent) diabetes mellitus. Nørgaard K, et al. **Diabetologia** 1990 Jul; 33(7):407–10
Effect of antihypertensive treatment on blood–retinal barrier permeability to fluorescein in hypertensive type 1 (insulin-dependent) diabetic patients with background retinopathy. Parving HH, et al. **Diabetologia** 1989 Jul; 32(7):440–4
Loss of heparan sulphate proteoglycan and retinal microinfarcts in diabetes mellitus [letter; comment] Roy MS, et al. **Diabetologia** 1989 Oct;32(10):766 Comment on: Diabetologia 1989 Apr;32(4):219–26.
Cisapride and gastric emptying of a solid meal in dyspeptic diabetics without autonomic neuropathy and in healthy volunteers. Brogna A, et al. **Eur J Clin Pharmacol** 1989; 37(4):411–3
Limited joint mobility in insulin dependent childhood diabetes. Rosenbloom AL. **Eur J Pediatr** 1990 Mar; 149(6):380–8 (87 ref.)
The frequency of disturbances of somatic development in young people with type I diabetes in dependence on duration and age at onset of the disease. Gens E, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):97–104
The effect of antihypertensive treatment on kidney function in insulin-dependent (type I) diabetics with renal failure. Zander E, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):70–6
Headaches in insulin-dependent diabetic patients. Martins I, et al. **Headache** 1989 Nov;29(10):660–3
Complications in 8793 cases of diabetes mellitus 14 years study in Bombay Hospital, Bombay, India. Patel JC. **Indian J Med Sci** 1989 Jul;43(7):177–83
Hypoglycemia in diabetes among children and adolescents. Karp MM. **Indian J Pediatr** 1989 Nov-Dec;56 Suppl 1:S93–8
Can retinopathy be prevented? Weber B, et al. **Indian J Pediatr** 1989 Nov-Dec;56 Suppl 1:S99–107 (53 ref.)
Koebner phenomenon in a diabetic with necrobiosis lipoidica diabeticorum. Miller RA. **Int J Dermatol** 1990 Jan-Feb; 29(1):52–3
Cutaneous zygomycosis in a diabetic HTLV-I-seropositive man. Clark R, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 2):956–9
Exercise-induced silent ischemia: age, diabetes mellitus, previous myocardial infarction and prognosis. Callaham PR, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1175–80
Does a clinically definable diabetic cardiomyopathy exist? [editorial] Starling MR. **J Am Coll Cardiol** 1990 Jun; 15(7):1518–20
The mental efficiency of the elderly person with type II diabetes mellitus. U'Ren RC, et al. **J Am Geriatr Soc** 1990 May;38(5):505–10
Preoperative and perioperative anesthesia considerations for the diabetic patient. Addante JB, et al. **J Am Podiatr Med Assoc** 1990 Jun;80(6):319–22 (17 ref.)
Juvenile diabetes manifesting as epilepsia partialis continua. Sabharwal RK, et al. **J Assoc Physicians India** 1989 Sep; 37(9):603–4
Amyotrophy in young diabetics: clinical profiles. Varthakavi PK, et al. **J Assoc Physicians India** 1990 Mar;38(3):206–10
Fatty liver hepatitis and type 5 hyperlipoproteinemia in juvenile diabetes mellitus. Case report and review of the literature. Lenaerts J, et al. **J Clin Gastroenterol** 1990 Feb; 12(1):93–7 (33 ref.)
Early diagnosis of subclinical complications in insulin dependent diabetic children and adolescents. Chiumello G, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):101–4
Early detection of nephropathy in juvenile diabetes. Morgese G, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):139–40
Gastroparesis: a possible complication in diabetic patients. Gross L, et al. **J Foot Surg** 1990 Mar-Apr;29(2):173–5 (16 ref.)
Dysgonic fermenter 3-associated abscess in a diabetic patient. Bangsborg JM, et al. **J Infect** 1990 May;20(3):237–40
Cryptosporidiosis as a cause of chronic diarrhoea in a patient with insulin-dependent diabetes mellitus [letter] Chan AW, et al. **J Infect** 1989 Nov;19(3):293
Long-term bone loss in insulin-dependent diabetes mellitus. Mathiassen B, et al. **J Intern Med** 1990 May;227(5):325–7
A study of patients with diabetes mellitus (type 1) and end-stage renal failure: tobacco usage may increase risk of nephropathy and death. Stegmayr BG. **J Intern Med** 1990 Aug;228(2):121–4
Studies of resistance to ischemic nerve conduction failure in normal and diabetic rats. Parry GJ, et al. **J Neurol Sci** 1989 Oct;93(1):61–7
Severe hypoglycemia in children with insulin-dependent diabetes mellitus: frequency and predisposing factors. Daneman D, et al. **J Pediatr** 1989 Nov;115(5 Pt 1):681–5
Hypoglycemia in insulin-dependent diabetes mellitus [editorial] Travis LB. **J Pediatr** 1989 Nov;115(5 Pt 1):740–2
Juvenile onset diabetes and schizophrenia? [letter] [see comments] Finney GO. **Lancet** 1989 Nov 18;2(8673):1214–5 Comment in: Lancet 1989 Dec 23-30;2(8678–8679):1527. Comment in: Lancet 1990 Jan 27;335(8683):228–9.
Diabetes and schizophrenia [letter; comment] Gupta S. **Lancet** 1989 Dec 23-30;2(8678–8679):1527 Comment on: Lancet 1989 Nov 18;2(8673):1214–5.
Diet, cystic fibrosis, and diabetes: making friends with the perfect enemy [letter] Sheehan JP, et al. **Lancet** 1990 Aug 25;336(8713):501
Rheumatoid arthritis, diabetes, and schizophrenia [letter; comment] Spector TD, et al. **Lancet** 1990 Jan 27; 335(8683):228–9 Comment on: Lancet 1989 Nov 18;298673):1214–5.
Disparities in incidence of diabetic end-stage renal disease according to race and type of diabetes [see comments] Cowie CC, et al. **N Engl J Med** 1989 Oct 19;321(16):1074–9 Comment in: N Engl J Med 1989 Oct 19;321(16):1121–2.
Fibrous disease of the breast in juvenile diabetes. Gump FE, et al. **N Y State J Med** 1990 Jul;90(7):356–7
Hypoglycaemia in insulin dependent diabetic patients attending an outpatients' clinic. Ward CM, et al. **N Z Med J** 1990 Jul 25;103(894):339–41
Diabetic nephropathy in insulin-dependent diabetes mellitus: pathogenesis and treatment strategies. Bilo HJ, et al. **Neth J Med** 1990 Feb;36(1–2):74–85 (128 ref.)
Hypertension in patients with diabetes mellitus: prevalence, aetiology and consequences. de Nobel E, et al. **Neth J Med** 1989 Dec;35(5–6):267–75 (59 ref.)
The treatment of hypertension in patients with diabetes mellitus [editorial] de Nobel E. **Neth J Med** 1989 Dec; 35(5–6):219–24 (44 ref.)
Spontaneous abortions in repeat diabetic pregnancies: a relationship with glycemic control. Miodovnik M, et al. **Obstet Gynecol** 1990 Jan;75(1):75–8
Detecting and treating retinopathy in patients with type I diabetes mellitus. A health policy model. Javitt JC, et al. **Ophthalmology** 1990 Apr;97(4):483–94; discussion 494–5
Visual field defects in patients with insulin-dependent and noninsulin-dependent diabetes. Trick GL, et al. **Ophthalmology** 1990 Apr;97(4):475–82
The Vogt-Koyanagi-Harada syndrome: association with hypothyroidism and diabetes mellitus. Jaggarao N, et al. **Postgrad Med J** 1989 Aug;65(766):587–8
Type I diabetes mellitus and eating disorders: navigating nearly uncharted waters. Popkin MK. **Psychiatr Med** 1989; 7(4):205–10 (27 ref.)
The prevalence of hyperlipidaemia and related clinical features in insulin-dependent diabetes mellitus. Winocour PH, et al. **Q J Med** 1989 Mar;70(263):265–76
On the pathogenesis of arterial blood pressure elevation early in the course of diabetic nephropathy. Hommel E, et al. **Scand J Clin Lab Invest** 1989 Oct;49(6):537–44
Hyperosmolar nonketotic hyperglycemia manifested as ascending polyneuropathy. Davenport A, et al. **South Med J** 1990 Feb;83(2):250–2
Acute renal failure in a patient with essential thrombocythemia, diabetes mellitus, and heterozygous hemoglobin C disease. Votaw ML, et al. **South Med J** 1990 Jan;83(1):57–9
Catecholamine content of the penile corpora in patients with diabetes-associated impotence. Melman A, et al. **Surg Forum** 1978;29:634–6
Effect of lipanthyl in hyperlipoproteinaemic diabetic patients. Hajós P, et al. **Ther Hung** 1989;37(3):138–43
Frequency of diabetes-related complications in renal allograft recipients prospectively randomized to cyclosporine or azathioprine. Pescovitz MD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1537–8
Paroxysmal nocturnal haemoglobinuria and diabetes mellitus. Andrews WJ, et al. **Ulster Med J** 1990 Apr;59(1):84–6
The Mauriac syndrome. Morrison EY, et al. **West Indian Med J** 1989 Sep;38(3):180–2
[Special problems in diabetics with hypertension] Rybka J, et al. **Vnitr Lek** 1989 Aug;35(8):772–9 (Eng. Abstr.) (Cze)
[Hyperlipidemia in diabetes mellitus. Pathogenesis, diagnosis and drug therapy—a review] Johansen K. **Ugeskr Laeger** 1990 Feb 26;152(9):584–8 (30 ref.) (Eng. Abstr.) (Dan)
[Neuroarthropathy of the diabetic foot] Burgers AM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):513–6 (Dut)
[Mucormycosis of the face associated with aspergillosis in the diabetic patient. Diagnostic and therapeutic considerations] Bonfils P, et al. **Ann Otolaryngol Chir Cervicofac** 1989;106(6):327–9 (Eng. Abstr.) (Fre)
[Taste disorders and associated factors in type 1 diabetes] Le Floch JP, et al. **Ann Otolaryngol Chir Cervicofac** 1989; 106(7):455–61 (Eng. Abstr.) (Fre)
[Fatal hemoptysis during bronchial aspergillosis with multiple pulmonary artery aneurysms] Caulet S, et al. **Ann Pathol** 1990;10(3):177–80 (Eng. Abstr.) (Fre)
[An aid to the electrophysiological diagnosis of diabetic peripheral neuropathy] Doucet J, et al. **Neurophysiol Clin** 1989 Aug;19(4):327–37 (Eng. Abstr.) (Fre)
[The association of diabetes and celiac disease: the value of assaying antireticulin antibodies] Keddari M, et al. **Pediatrie** 1989;44(4):319–21 (Eng. Abstr.) (Fre)
[Primary pulmonary arterial hypertension and auto-immune multiple endocrine disease (letter)] Bouhanick B, et al. **Presse Med** 1990 Jun 30;19(26):1242–3 (Fre)
[Errors in the reading of self-monitoring reagent strips in diabetics with dyschromatopsia (letter)] Doucet J, et al. **Presse Med** 1989 Oct 28;18(35):1756 (Fre)
[Partial status epilepticus during non-ketotic hyperglycemia (letter)] Karmochkine M, et al. **Presse Med** 1990 May 5; 19(18):869 (Fre)
[Microalbuminuria and diabetic nephropathy. Detection and correlation with other degenerative complications] Thivolet C, et al. **Presse Med** 1990 Jun 9;19(23):1075–80 (Eng. Abstr.) (Fre)
[Treatment of hyperlipoproteinemia in patients with diabetes mellitus] Dammann HG, et al. **Fortschr Med** 1990 May 20;108(15):305–8 (0 ref.) (Eng. Abstr.) (Ger)
[Essential hypertension and diabetes mellitus] Dietze G, et al. **Fortschr Med** 1990 Feb 28;108(6):103–6 (40 ref.) (Eng. Abstr.) (Ger)
[Diabetic nephropathy. Pathogenetic, diagnostic and therapeutic concepts] Kleophas W, et al. **Fortschr Med** 1990 May 30;108(16):309–12 (0 ref.) (Eng. Abstr.) (Ger)
[Sex disorders in male diabetic patients] Neubauer M. **Fortschr Med** 1990 Jun 30;108(19):381–3 (0 ref.) (Eng. Abstr.) (Ger)
[Hypertension and diabetes mellitus] Hasslacher C, et al. **Internist (Berl)** 1990 Mar;31(3):180–90 (66 ref.) (Ger)
[Hypoglycemia in diabetes mellitus. Causes—sequelae—prevention] Müller-Esch G. **Internist (Berl)** 1990 Mar;31(3):191–7 (61 ref.) (Ger)
[Autonomic neuropathy in diabetes mellitus: significance in

the clinic and general practice] Nusser J, et al. **Internist (Berl)** 1990 Mar;31(3):198–207 (113 ref.) **(Ger)**

[Results of local thrombolysis with special reference to diabetic metabolism] Stiegler H, et al. **Med Klin** 1990 Apr 15;85(4):171–5, 228 (Eng. Abstr.) **(Ger)**

[Hypoglycemia in childhood diabetes] Zuppinger K. **Schweiz Med Wochenschr** 1990 Jan 20;120(3):61–5 (Eng. Abstr.) **(Ger)**

[Treatment of hyperlipidemia in diabetes mellitus and hypertension] Krone W. **Verh Dtsch Ges Inn Med** 1989; 95:636–8 **(Ger)**

[Kyrle disease in juvenile diabetes mellitus and chronic renal failure] Detmar M, et al. **Z Hautkr** 1990 Jan;65(1):53–61 (Eng. Abstr.) **(Ger)**

[Caries, gingivitis and periodontitis in 12- to 14-year olds under conditions of sugar restriction—research on type-1 diabetics] Poppe B, et al. **Zahn Mund Kieferheilkd** 1989; 77(7):674–9 (Eng. Abstr.) **(Ger)**

[Hypoglycemia due to ophthalmic timolol in a diabetic] Silverstone BZ, et al. **Harefuah** 1990 Jun 15;118(12):693–4 (Eng. Abstr.) **(Heb)**

[Treatment of gingivitis and periodontal diseases with insadol in diabetics] Albrecht M, et al. **Fogorv Sz** 1988 Mar; 81(3):65–71 (Eng. Abstr.) **(Hun)**

[Photoplethysmography as a means of early diagnosis of changes in the microcirculation of children and adolescents with type I diabetes. Preliminary study] Buzzetti M, et al. **Clin Ter** 1989 Nov 15;131(3):189–94 (Eng. Abstr.) **(Ita)**

[Arterial hypertension in diabetes mellitus] Tiengo A. **G Clin Med** 1990 Jan;71(1):3–6, 10–6 (55 ref.) **(Ita)**

[Clinical study on the prevalence of dental caries in patients with juvenile diabetes mellitus] Piattelli A, et al. **Minerva Stomatol** 1989 Nov;38(11):1227–30 (Eng. Abstr.) **(Ita)**

[Localization factors for arteriosclerosis and thrombosis] Mancini M, et al. **Ric Clin Lab** 1989;19 Suppl 1:23–7 **(Ita)**

[An autopsied case of insulin dependent diabetes mellitus complicated by chronic thyroiditis and chronic hepatitis] Mori Y, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Nov 20;65(11):1209–18 (Eng. Abstr.) **(Jpn)**

[Photocoagulation in diabetes mellitus—our results] Stankiewicz A, et al. **Klin Oczna** 1989 Jul–Sep; 91(7–9):197–8 (Eng. Abstr.) **(Pol)**

[Evaluation of hearing in patients with diabetes] Krochmalska E, et al. **Otolaryngol Pol** 1989;43(1):45–51 (Eng. Abstr.) **(Pol)**

[Factors determining the presence and predicting the development of diabetic retinopathy] Kopczyński J, et al. **Pol Arch Med Wewn** 1989 Aug–Sep;82(2–3):86–92 (Eng. Abstr.) **(Pol)**

[Monotherapy with acebutolol in hypertensive diabetic patients] Leowski J Jr, et al. **Pol Tyg Lek** 1990 Jan 1–15; 45(1–3):30–5 (Eng. Abstr.) **(Pol)**

[A method for early diagnosis of reduced mobility of hand joints in diabetes mellitus type I] Szymerska E. **Pol Tyg Lek** 1990 Jan 22–29;45(4–5):72–6 (Eng. Abstr.) **(Pol)**

[Hyperglycemic hyperosmolar nonketotic coma] Jaromczyk-Slisz J, et al. **Wiad Lek** 1990 Apr 15;43(8):360–4 (Eng. Abstr.) **(Pol)**

[Hypoglycemia and epilepsy syndrome in diabetes mellitus in children] Skripkina VM, et al. **Pediatriia** 1990;(6):15–8 (Eng. Abstr.) **(Rus)**

[The reaction of the gastrointestinal tract to insulin-induced hypoglycemia in patients with type-1 diabetes mellitus complicated by diabetic enteropathy] Tikhonova TM. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):48–9 **(Rus)**

[Pulmonary tuberculosis and diabetes mellitus] Karachunskiĭ MA. **Probl Tuberk** 1990;(4):60–4 **(Rus)**

[Microangiopathies in diabetes mellitus types 1 and 2] Saltykov BB, et al. **Sov Med** 1989;(10):77–9 **(Rus)**

[The effect of laser irradiation on the functional state of the cardiovascular system in diabetes mellitus] Vernigorodskiĭ VS. **Sov Med** 1990;(3):62–4 **(Rus)**

[The treatment of periodontal and dental involvement in patients with diabetes mellitus type 1] Elovikova TM. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):18–20 (Eng. Abstr.) **(Rus)**

[Characteristics of the course of odontogenic suppurative-inflammatory processes of the maxillofacial area in patients with insulin-dependent and insulin-independent diabetes mellitus] Meser A. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):41–4 (Eng. Abstr.) **(Rus)**

[Treatment of patients with acute intestinal obstruction in diabetes mellitus] Duboshina TB, et al. **Vestn Khir** 1989 Sep;143(9):120–1 **(Rus)**

[Influence of diabetes mellitus in hospital emergencies] Martín Vaquero P, et al. **Rev Clin Esp** 1990 Mar; 186(4):151–4 (Eng. Abstr.) **(Spa)**

[Duoderm should be used with caution on the feet of diabetics] Lithner F. **Lakartidningen** 1990 May 30; 87(22):1941–4 **(Swe)**

DIAGNOSIS

Platelet and plasma vasoactive amines in type 1 (insulin-dependent) diabetes mellitus with and without vascular disease. Winocour PH, et al. **Ann Clin Biochem** 1990 May;27 (Pt 3):238–43

The patient with newly diagnosed diabetes mellitus. Fulcher G, et al. **Aust Fam Physician** 1990 Aug;19(8):1225–9, 1232–4

Extreme hyperglycemia and hyperosmolarity [letter] Soni A, et al. **Diabetes Care** 1990 Feb;13(2):181–2

Predicting type I diabetes. Ziegler AG, et al. **Diabetes Care** 1990 Jul;13(7):762–5 (74 ref.)

Antibodies to proinsulin and insulin as predictive markers of type 1 diabetes. Kuglin B, et al. **Diabetic Med** 1990 May; 7(4):310–4

Type 1 (insulin-dependent) diabetes mellitus diagnosed during pregnancy: a clinical and prognostic study. Buschard K, et al. **Diabetologia** 1990 Jan;33(1):31–5

Initial signs and diagnosis of diabetes—special considerations of Oriental patients. Kitagawa T, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S39–45

Blurred vision: an overlooked initial presenting symptom of insulin-dependent diabetes mellitus. Koffler M, et al. **Isr J Med Sci** 1990 Jul;26(7):393–4

Retinopathy in insulin dependent diabetes mellitus (IDDM) in south India. Mohan R, et al. **J Assoc Physicians India** 1989 Jun;37(6):370–3

The natural history and predictive value of Mr 64,000 autoantibodies for insulin-dependent diabetes mellitus. Atkinson MA, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:41–5

Comparison of islet autoantibodies in 'pre-diabetes' and recommendations for screening. Riley WJ, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:47–51

A sensitive and reproducible method for the assay of human islet cell antibodies. Pilcher CC, et al. **J Immunol Methods** 1990 May 8;129(1):111–7

Unusual causes of renal failure in diabetics: two case studies. VenkataRaman TV, et al. **J Okla State Med Assoc** 1990 Apr;83(4):164–8

Plasma plasmalogens of the phosphoethanolamine type and angiopathy in diabetic patients. Goto I, et al. **Klin Wochenschr** 1990 Jan 4;68(1):49

[Impedance methods of studying the vascular changes in insulin-dependent diabetes mellitus] Ikonomov M. **Vutr Boles** 1989;28(6):52–6 (Eng. Abstı.) **(Bul)**

[Proximal motor neuropathy in diabetes mellitus] van Buren M, et al. **Ned Tijdschr Geneeskd** 1989 Dec 9;133(49):2425–7 **(Dut)**

[Diabetes and pregnancy—internal medicine aspects: expectations and facts] Mehnert H, et al. **Arch Gynecol Obstet** 1989;245(1–4):272–8 **(Ger)**

[Urine glucose testing in children with diabetes mellitus—obsolete as a daily control measure?] Nothjunge J. **Dtsch Med Wochenschr** 1989 Dec 22; 114(51–52):1996–2000 (Eng. Abstr.) **(Ger)**

[Epidemiologic studies of the recognition of the preclinical phase of type I diabetes in school children] Seissler J, et al. **Dtsch Med Wochenschr** 1990 May 4;115(18):689–94 (Eng. Abstr.) **(Ger)**

[Complete remission of type I diabetes mellitus in infancy following cytomegalovirus infection] Mix M, et al. **Monatsschr Kinderheilkd** 1989 Sep;137(9):620–2 (Eng. Abstr.) **(Ger)**

[A case from practice (158). Type I diabetes in remission. Type II diabetes] Skoda C, et al. **Schweiz Rundsch Med Prax** 1990 Jan 9;79(1–2):25–6 **(Ger)**

[Neonatal morbidity of children of diabetic mothers] Schoetzau A, et al. **Z Geburtshilfe Perinatol** 1990 Mar–Apr; 194(2):58–64 (Eng. Abstr.) **(Ger)**

[Long-term remission in diabetes mellitus diagnosed at an early age] Halmos T, et al. **Orv Hetil** 1990 Jul 29; 131(30):1628, 1632–4 (Eng. Abstr.) **(Hun)**

[Immunogenetic and functional study of first-degree relatives of patients with type I diabetes mellitus for identifying prediabetic subjects] Manna R, et al. **Clin Ter** 1990 Jan 31;132(2):109–15 (Eng. Abstr.) **(Ita)**

[New diagnostic tests for diabetes mellitus. C-peptide and proinsulin] Matsuda A. **Nippon Rinsho** 1989 Nov; 47(11):2495–500 **(Jpn)**

[The use of conjunctival biomicroscopy and liquid-crystal thermography in diabetes mellitus in children and adolescents] Krishchenko OP, et al. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):37–40 (Eng. Abstr.) **(Rus)**

[The physical work capacity of diabetics during rehabilitative treatment] Ivanushchak NI, et al. **Ter Arkh** 1990; 62(2):110–5 (Eng. Abstr.) **(Rus)**

[The differential diagnosis of diabetic cardiopathy and ischemic heart disease in diabetics] Garagan SF. **Vrach Delo** 1990 Feb;(2):61–3 (Eng. Abstr.) **(Rus)**

DIET THERAPY

Change in plasma acetate levels in diabetic subjects on mixed high fiber diets [see comments] Akanji AO, et al. **Am J Gastroenterol** 1989 Nov;84(11):1365–70 Comment in: Am J Gastroenterol 1989 Nov;84(11):1362–3.

The effect of fish-oil on the remission of type 1 (insulin-dependent) diabetes in newly diagnosed patients [letter] Tariq T, et al. **Diabetologia** 1989 Oct;32(10):765

Effect of fenugreek seeds on blood glucose and serum lipids in type I diabetes. Sharma RD, et al. **Eur J Clin Nutr** 1990 Apr;44(4):301–6

Diet therapy among young diabetics in the Philippines. Fernando RE. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S67–70

Nutrition and insulin dependent diabetes in the young: general approaches. Pinelli L, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S63–5

The perfect enemy: eating and IDDM [editorial] **Lancet** 1990 Jun 30;335(8705):1564

Restriction of dietary protein and progression of renal failure in diabetic nephropathy [published erratum appears in Lancet 1989 Dec 23–30;2(8678–8679):1540] [see comments] Walker JD, et al. **Lancet** 1989 Dec 16;2(8677):1411–5 Comment in: Lancet 1990 Feb 17;335(8686):411–2.

Protein sparing in diabetic patients. Sizemore DA, et al. **Surg Forum** 1978;29:66–8

DRUG THERAPY

Effect of computer-assisted insulin delivery on glycemic control of type I diabetic patients: a preliminary experience. Buysschaert M, et al. **Acta Clin Belg** 1989;44(3):169–73

Effect of one year continuous subcutaneous infusion of a somatostatin analogue, octreotide, on early retinopathy, metabolic control and thyroid function in Type I (insulin-dependent) diabetes mellitus. Kirkegaard C, et al. **Acta Endocrinol (Copenh)** 1990 Jun;122(6):766–72

Evaluation of the insulin jet injector as a potential source of infection. Price JP, et al. **Am J Infect Control** 1989 Oct; 17(5):258–63

Recurrent nocturnal hypoglycemia in an insulin-dependent diabetic patient receiving a small daily dose of insulin. Walker JD, et al. **Am J Med** 1990 May;88(5):537–9

Comparison of intramuscular glucagon and intravenous dextrose in the treatment of hypoglycaemic coma in an accident and emergency department. Patrick AW, et al. **Arch Emerg Med** 1990 Jun;7(2):73–7

NovoSol Basal: pharmacokinetics of a novel soluble long acting insulin analogue. Jørgensen S, et al. **BMJ** 1989 Aug 12;299(6696):415–9

Alteration in diabetic control after a change in insulin manufacture [letter] Lloyd-Mostyn RH. **BMJ** 1990 Feb 3;300(6720):328–9

Efficacy of a premixed semisynthetic human insulin regimen. Bell DS, et al. **Clin Ther** 1989 Nov–Dec;11(6):795–801

Combining statistical, rule-based, and physiologic model-based methods to assist in the management of diabetes mellitus. Berger MP, et al. **Comput Biomed Res** 1990 Aug;23(4):346–57

More on the world's longest insulin patient. Wilcox DS. **Conn Med** 1989 Oct;53(10):591–2

Results of intensified insulin therapy in type-I diabetics receiving instruction in self-monitoring. Dryáková M, et al. **Czech Med** 1990;13(1):1–8

Optimized insulin delivery: achievements and limitations. Buysschaert M. **Diabete Metab** 1989 Jul–Aug;15(4):188–203 (168 ref.)

Different daily blood glucose control and free insulin levels during treatment with mixtures of soluble and lente or soluble and NPH semisynthetic human insulins. Cucinotta D, et al. **Diabete Metab** 1989 Jul–Aug;15(4):182–7

Comparison of Monotard and Ultratard insulin at bedtime in a model of optimized insulin therapy in Italy. Martina V, et al. **Diabete Metab** 1989 Nov–Dec;15(6):372–4

Plasma C-peptide levels and clinical remissions in recent-onset type I diabetic patients treated with cyclosporin A and insulin. Assan R, et al. **Diabetes** 1990 Jul;39(7):768–74

Diabetic glycemic control and retinal blood flow. Grunwald JE, et al. **Diabetes** 1990 May;39(5):602–7

Insulin administration. **Diabetes Care** 1990 Jan;13 Suppl 1:28–31

Diabetes Control and Complications Trial (DCCT). Update. DCCT Research Group. **Diabetes Care** 1990 Apr; 13(4):427–33

Impact of physical fitness and glycemic control on in vivo insulin action in adolescents with IDDM. Arslanian S, et al. **Diabetes Care** 1990 Jan;13(1):9–15

Insulin as risk factor for vascular disease [letter] Gwinup G, et al. **Diabetes Care** 1990 May;13(5):543–5

Combination insulin-sulfonylurea therapy. Lebovitz HE, et al. **Diabetes Care** 1990 Jun;13(6):667–75 (52 ref.)

Immunosuppression in IDDM. Rationale, risks, benefits, and strategies [comment] Mahon JL, et al. **Diabetes Care** 1990 Jul;13(7):806–8 Comment on: Diabetes Care 1990 Jul;13(7):776–84.

Trends in treatment among unselected geographically defined diabetic population [letter; comment] Ratzmann KP, et al. **Diabetes Care** 1990 May;13(5):545–6 Comment on: Diabetes Care 1988 Jul–Aug;11(7):558–62.

Efficacy of bedtime NPH insulin with daytime sulfonylurea for subpopulation of type II diabetic subjects. Riddle MC, et al. **Diabetes Care** 1989 Oct;12(9):623–9

Insulin pen-injector systems in adolescents with IDDM. Roe-Finlay S, et al. **Diabetes Care** 1990 Jan;13(1):78–9

Brain wave on the witness stand [letter] Toth EL. **Diabetes Care** 1990 Jul;13(7):817–8

Variation in absorption of NPH insulin due to intramuscular injection. Vaag A, et al. **Diabetes Care** 1990 Jan;13(1):74–6

Effect of human proinsulin on blood glucose control and metabolic instability in type 1 diabetes mellitus. Bock E, et al. **Diabetes Res** 1989 Apr;10(4):165–9

Treatment of insulin-dependent diabetes using an injection pen: control, problems and patient preferences. Fisken RA, et al. **Diabetes Res** 1989 Aug;11(4):195–7

Effect of multiple insulin injections with a pen injector on metabolic control and general well-being in insulin-dependent diabetes mellitus. Gall MA, et al. **Diabetes Res** 1989 Jun;11(2):97–101

Comparison of the safety and effectiveness of human and bovine long-acting insulins. Selam JL, et al.

Diabetes Res 1989 Nov;12(3):131–4

Effect of treatment with an inhibitor of platelet aggregation on the evolution of background retinopathy: 2 years of follow-up. Esmatjes E, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):285–91

Continuous subcutaneous insulin infusion (CSII) versus conventional injection therapy in newly diagnosed diabetic children: two-year follow-up of a randomized, prospective trial. de Beaufort CE, et al. **Diabetic Med** 1989 Dec; 6(9):766–71

The variability of the absorption of subcutaneously injected insulin: effect of injection technique and relation with brittleness. de Meijer PH, et al. **Diabetic Med** 1990 Jul; 7(6):499–505

Symptomatic awareness of hypoglycaemia: does it change on transfer from animal to human insulin? [letter; comment] Egger M, et al. **Diabetic Med** 1990 Mar–Apr;7(3):269–70 Comment on: Diabetic Med 1989 Sep–Oct;6(7):586–90.

Nephrotoxicity of cyclosporin A in patients with newly diagnosed type 1 diabetes mellitus. Feldt-Rasmussen B, et al. **Diabetic Med** 1990 Jun;7(5):429–33

Insulin management during labour and delivery in mothers with diabetes. Lean ME, et al. **Diabetic Med** 1990 Feb; 7(2):162–4

An unbiased glucose clamp method using a variable insulin infusion: its application in diabetic adolescents. Matthews DR, et al. **Diabetic Med** 1990 Mar–Apr;7(3):246–51

Fatal hypoglycaemia in insulin-treated diabetes mellitus: clinical features and neuropathological changes. Patrick AW, et al. **Diabetic Med** 1990 May;7(4):349–54

Long-term safety, efficacy and side-effects of continuous subcutaneous insulin infusion treatment for type 1 (insulin-dependent) diabetes mellitus: a one centre experience. Chantelau E, et al. **Diabetologia** 1989 Jul; 32(7):421–6

A trial of nicotinamide in newly diagnosed patients with type 1 (insulin-dependent) diabetes mellitus. Chase HP, et al. **Diabetologia** 1990 Jul;33(7):444–6

Enalapril therapy in type 1 (insulin-dependent) diabetic children [letter; comment] Greene A. **Diabetologia** 1990 Feb;33(2):126 Comment on: Diabetologia 1989 Apr;32(4):255–60.

Sandostatin, a new analogue of somatostatin, reduces the metabolic changes induced by the nocturnal interruption of continuous subcutaneous insulin infusion in type 1 (insulin-dependent) diabetic patients. Scheen AJ, et al. **Diabetologia** 1989 Nov;32(11):801–9

Effect of cyclosporin A on B-cell loss in type 1 (insulin-dependent) diabetes mellitus [letter] Vague P, et al. **Diabetologia** 1989 Dec;32(12):887

Long term feasibility of multiple daily injections with insulin pens in children and adolescents with diabetes. Tubiana-Rufi N, et al. **Eur J Pediatr** 1989 Nov;149(2):80–3

Insulin therapy on the peritoneal route: effects on glucose control in experimental insulin dependent diabetes. Fischer U, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):11–21

Intranasal insulin administration in insulin dependent diabetes: reproducibility of its absorption and effects. Sinay IR, et al. **Horm Metab Res** 1990 May;22(5):307–8

Advances in insulin therapy for insulin-dependent diabetic children. Matsuura N, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S51–6

Insulin delivery by implanted pumps: one-year trial with programmable infusion systems (the Point Study). Walter H. **Int J Artif Organs** 1989 Dec;12(12):793–8

Diabetics treated with continuous subcutaneous insulin infusion pumps. Foley-Nolan D, et al. **Ir Med J** 1989 Dec; 82(4):159–60

Effects of purified insulins on insulin requirement and metabolic control. Yajnik VH, et al. **J Assoc Physicians India** 1990 Apr;38(4):281–2

Quality of life activities associated with adherence to insulin infusion pump therapy in the treatment of insulin dependent diabetes mellitus. Wolf FM, et al. **J Clin Epidemiol** 1989; 42(12):1129–36

Immunosuppressive therapy in newly diagnosed diabetic children (comparison between two different strategies). Pococco M, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):143–4

Insulin treatment in adolescence. Vicens-Calvet E, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):109–12

Effect of nicardipine on renal sodium handling in normotensive insulin-dependent diabetics and controls. Hannedouche T, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S282–3

Effect of cyclosporine on blood pressure and renal function of recent type 1 diabetes mellitus. Ribstein J, et al. **J Hypertens Suppl** 1989 Dec;7(6):S198–9

Short-term effect of captopril and nifedipine on micro-albuminuria induced by exercise in hypertensive diabetic patients. Romanelli G, et al. **J Hypertens Suppl** 1989 Dec;7(6):S312–3

An evaluation of ketanserin therapy for the hypertensive diabetic patient. Tooke JE, et al. **J Hypertens Suppl** 1989 Dec;7(6):S318–9

Pulsatile insulin infusion and glucose-homeostasis in well-controlled type 1 (insulin-dependent) diabetic patients. Heinemann L, et al. **J Intern Med** 1989 Nov; 226(5):325–30

Hypoglycemia in children with insulin-dependent diabetes mellitus [letter] Bell DS, et al. **J Pediatr** 1990 Aug;117(2 Pt 1):340–1

Prevalence and consequences of nocturnal hypoglycemia among conventionally treated children with diabetes mellitus. Shalwitz RA, et al. **J Pediatr** 1990 May; 116(5):685–9

'Brittle' diabetes [letter] Kelly GS. **J R Coll Gen Pract** 1989 Jun;39(323):260

Acute symptomatic diabetic neuropathy associated with normalization of haemoglobin A1. Krentz AJ. **J R Soc Med** 1989 Dec;82(12):767–8

A mathematical model for insulin kinetics. II. Extension of the model to include response to oral glucose administration and application to insulin-dependent diabetes mellitus (IDDM). Subba Rao G, et al. **J Theor Biol** 1990 Feb 22;142(4):473–83

Symptoms of hypoglycemia—a comparison between porcine and human insulin. Jakober B, et al. **Klin Wochenschr** 1990 May 4;68(9):447–53

Comparison of glycemic response and insulin requirements after mixed meals of equal carbohydrate content in healthy, type-1, and type-2 diabetic man. Schrezenmeir J, et al. **Klin Wochenschr** 1989 Oct 2;67(19):985–94

Oral delivery of insulin [letter] [see comments] Cho YW, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1518–9 Comment in: Lancet 1990 Feb 10;335(8685):355.

Oral insulin [letter; comment] Elias AN, et al. **Lancet** 1990 Feb 10;335(8685):355 Comment on: Lancet 1989 Dec 23–30;2(8678–8679):1518–9.

Hypoglycaemia and human insulin. Gale EA. **Lancet** 1989 Nov 25;2(8674):1264–6 (30 ref.)

Comparison of glycaemic control with human and porcine insulins—a meta-analysis [letter] Shannon AG, et al. **Med J Aust** 1990 Jan 1;152(1):49

Glucose counterregulation in diabetes secondary to chronic pancreatitis. Larsen S, et al. **Metabolism** 1990 Feb; 39(2):138–43

Blood pressure changes induced by ciclosporin A in type I diabetes. Hannedouche T, et al. **Miner Electrolyte Metab** 1990;16(1):12–5

The quest for normoglycaemia: is it worth the effort? Mann JI. **N Z Med J** 1990 Jun 27;103(892):292–3

Pharmacology of new hormonal therapies in the treatment of pediatric endocrine disorders. Usala AL, et al. **Pediatr Clin North Am** 1989 Oct;36(5):1157–82 (98 ref.)

Cyclosporine A for the treatment of new-onset insulin-dependent diabetes mellitus. Chase HP, et al. **Pediatrics** 1990 Mar;85(3):241–5

Factors predictive of cyclosporine-induced nephrotoxicity: the role of cyclosporine blood levels. Bach JF, et al. **Transplant Proc** 1990 Jun;22(3):1296–8

[Insulin needs of insulin-dependent diabetics during biostator control and subcutaneous use of insulin] Petkova M, et al. **Vutr Boles** 1990;29(1):74–7 (Eng. Abstr.) **(Bul)**

[The MADI manual insulin dispensing device in the treatment of juvenile diabetes] Venháčová J, et al. **Cesk Pediatr** 1989 Jul;44(7):404–5 **(Cze)**

[Long-term therapy with the insulin pump] Podroužková B. **Vnitr Lek** 1989 Aug;35(8):765–71 (Eng. Abstr.) **(Cze)**

[Hypoglycemic effects of equimolar quantities of semisynthetic human and porcine insulin in insulin-dependent diabetic patients] Bendtson I, et al. **Ugeskr Laeger** 1989 Nov 20;151(47):3163–6 (Eng. Abstr.) **(Dan)**

[How do I control my insulin-dependent diabetes (letter)] Kähler C. **Ugeskr Laeger** 1990 Feb 12;152(7):488–9 **(Dan)**

[Immunosuppression with cyclosporin induces clinical remission and improved beta cell function in patients with newly diagnosed insulin-dependent diabetes. A national and international multicenter study] Mandrup-Poulsen TR, et al. **Ugeskr Laeger** 1990 Jul 2;152(27):1963–9 (Eng. Abstr.) **(Dan)**

[Insuject-X for children. A clinical trial of the NPH insulin pen] Rix M, et al. **Ugeskr Laeger** 1990 Apr 9;152(15):1086–9 (Eng. Abstr.) **(Dan)**

[Outpatient adjustment to insulin in patients with diabetes mellitus] van Ballegooie E, et al. **Ned Tijdschr Geneeskd** 1990 Jan 13;134(2):68–70 (Eng. Abstr.) **(Dut)**

[Diabetes and the insulin pump: functional results after 5 consecutive years of permanent use] Mirouze J, et al. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):437–40 **(Fre)**

[Effect of glipizide on glycemic control and peripheral insulin sensitivity in type 1 diabetics] Leblanc H, et al. **Diabete Metab** 1990 Mar–Apr;16(2):93–7 (Eng. Abstr.) **(Fre)**

[Surveillance using vitreo-fluoro-photometry of diabetics treated with an insulin pump, without or with minimal retinopathy. Results after 3 years] Bordat B, et al. **J Fr Ophtalmol** 1989;12(6–7):421–5 (Eng. Abstr.) **(Fre)**

[Practical procedures of insulin therapy in diabetic children] Beaufrère B. **Pediatrie** 1989;44(1):19–26 (11 ref.) (Eng. Abstr.) **(Fre)**

[Methods of administration of insulin] Rodier M. **Presse Med** 1990 May 19;19(20):959–64 (30 ref.) (Eng. Abstr.) **(Fre)**

[Insulin pump malfunctions with severe hypoglycemia during altitude changes (letter)] Regling B, et al. **Dtsch Med Wochenschr** 1990 Jan 26;115(4):157 **(Ger)**

[Pregnancy outcome with intensified insulin therapy in manifest diabetes] Crombach G, et al. **Geburtshilfe Frauenheilkd** 1990 Apr;50(4):263–9 (Eng. Abstr.) **(Ger)**

[Developments in decision support for intensified insulin therapy] Peters A, et al. **Internist (Berl)** 1990 Mar; 31(3):218–25 (19 ref.) **(Ger)**

[Possibilities and risks of insulin pump therapy] Renner R, et al. **Internist (Berl)** 1990 Mar;31(3):226–35 (139 ref.) **(Ger)**

[Intensification of insulin substitution in adolescents and children with type I diabetes mellitus] Nothjunge J, et al. **Klin Padiatr** 1989 Nov–Dec;201(6):436–42 (Eng. Abstr.) **(Ger)**

[Ketoacidosis in long-term therapy with insulin pumps. Incidence, causes, circumstances] Walter H, et al. **Med Klin** 1989 Dec 15;84(12):565–8 (Eng. Abstr.) **(Ger)**

[Current aspects in therapy of insulin-dependent diabetes mellitus in children and adolescents] Schönle EJ. **Schweiz Med Wochenschr** 1990 Jan 20;120(3):54–60 (Eng. Abstr.) **(Ger)**

[Insulin and insulin treatment 1989] Berger W. **Schweiz Rundsch Med Prax** 1989 Oct 24;78(43):1179–82 (12 ref.) **(Ger)**

[Practical aspects of intensified insulin therapy using the basal bolus principle] Berger W, et al. **Ther Umsch** 1990 Jan; 47(1):30–40 (23 ref.) (Eng. Abstr.) **(Ger)**

[Are there problems in changing diabetic patients from animal to human insulin?] Fankhauser S, et al. **Ther Umsch** 1990 Jan;47(1):41–8 (Eng. Abstr.) **(Ger)**

[Basal bolus therapy in adolescent diabetic patients] Steinemann MA, et al. **Ther Umsch** 1990 Jan;47(1):22–9 (Eng. Abstr.) **(Ger)**

[Treatment of type I diabetes mellitus with continuous subcutaneous insulin infusion: indications and quality control] Berger M, et al. **Verh Dtsch Ges Inn Med** 1989; 95:135–40 **(Ger)**

[Glucose sensors and insulin infusion systems—current technical status and future aspects] Pfeiffer EF. **Verh Dtsch Ges Inn Med** 1989;95:725–36 (13 ref.) **(Ger)**

[Problems of the elderly, insulin injecting diabetic patients in ambulatory care] Liebermeister H, et al. **Versicherungsmedizin** 1990 Apr 1;42(2):59–64 (Eng. Abstr.) **(Ger)**

[Pregnancy in Addison disease and diabetes mellitus] Roth B, et al. **Z Geburtshilfe Perinatol** 1990 Mar–Apr;194(2):95–7 (Eng. Abstr.) **(Ger)**

[Nocturnal continuous subcutaneous insulin infusion—a therapeutic possibility in labile type I diabetes under exceptional conditions] Bruns W, et al. **Z Gesamte Inn Med** 1990 Mar 15;45(6):154–8 (Eng. Abstr.) **(Ger)**

[Insulin-induced lipoatrophy—caused by monocomponent insulin?] Gyimesi A, et al. **Orv Hetil** 1989 Dec 17; 130(51):2751–2 (Eng. Abstr.) **(Hun)**

[New approaches to the therapy of insulin-dependent diabetes mellitus] Galimberti G, et al. **Ann Ital Med Int** 1987 Apr–Jun;2(2):158–64 (37 ref.) (Eng. Abstr.) **(Ita)**

[Use of semisynthetic human insulin in juvenile insulin-dependent diabetes mellitus] Sacchetti C, et al. **Minerva Pediatr** 1989 May;41(5):221–2 (Eng. Abstr.) **(Ita)**

[Practical points in the use of insulin and oral hypoglycemic agents] Nakayama H. **Hokkaido Igaku Zasshi** 1989 Jul; 64(4):387–90 **(Jpn)**

[Indications for insulin treatment] Itoh H, et al. **Nippon Rinsho** 1989 Nov;47(11):2560–4 **(Jpn)**

[Multi-injection treatment using an insulin pen] Foss NE, et al. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):833–4 (Eng. Abstr.) **(Nor)**

[Short-term subcutaneous infusion of insulin using a portable insulin pump in the treatment of diabetes mellitus] Krzymień J, et al. **Pol Arch Med Wewn** 1989 Apr; 81(4):214–22 (Eng. Abstr.) **(Pol)**

[Effect of insulin sensitivity on the occurrence of early-morning hyperglycemia in patients treated with insulin] Krzymień J, et al. **Pol Arch Med Wewn** 1989 Mar; 81(3):176–82 (Eng. Abstr.) **(Pol)**

[Treatment of diabetes mellitus type 1 by long-term infusion of insulin] Krzymień J, et al. **Pol Arch Med Wewn** 1989 Apr;81(4):223–30 (Eng. Abstr.) **(Pol)**

[Use of the biostator for programming the insulin infusion pump Microjet-Bolus-2 in the treatment of insulin-dependent diabetes mellitus] Sieradzki J, et al. **Pol Arch Med Wewn** 1988 May;79(5):271–7 (Eng. Abstr.) **(Pol)**

[Insulinotherapy] Carrilho FM, et al. **Acta Med Port** 1989 Sep;Suppl 1:19S–23S (15 ref.) (Eng. Abstr.) **(Por)**

[Current aspects of the antitubercular chemotherapy of new patients with tuberculosis and diabetes mellitus] Ghinescu V, et al. **Rev Ig [Pneumoftiziol]** 1989 Apr–Jun;38(2):115–26 (Eng. Abstr.) **(Rum)**

[Effect of insulin-binding antibodies on the kinetics of intravenous insulin in diabetes mellitus] Dreval AV, et al. **Lab Delo** 1989;(10):41–7 (Eng. Abstr.) **(Rus)**

[Experience in the use of biostator in the treatment of diabetes mellitus in children of the pubertal age] Antsiferov MB, et al. **Pediatriia** 1989;(11):18–22 (Eng. Abstr.) **(Rus)**

[Comparative study of the effectiveness of immuno-correcting therapy in insulin-dependent diabetes mellitus in children] Kravets EB. **Pediatriia** 1990;(6):18–21 (Eng. Abstr.) **(Rus)**

[Intensified insulin therapy in children and adolescents with labile diabetes mellitus] Lebedev NB, et al. **Pediatriia** 1989; (11):75–9 **(Rus)**

[Insulin requirements of patients with initial manifestations

and decompensation of diabetes mellitus] Martynova MI, et al. **Pediatriia** 1989;(11):14–6 (Eng. Abstr.) **(Rus)**

[The efficacy of using thymalin in diabetes mellitus in children] Kurbanov TG, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):7–9 (Eng. Abstr.) **(Rus)**

[Treatment of unstable diabetes mellitus in children and adolescents using insulin administered by a semi–automated syringe, NovoPen] Necić S, et al. **Srp Arh Celok Lek** 1989 Jul–Aug;117(7–8):453–8 (Eng. Abstr.) **(Scc)**

[Metabolic control and acceptance of a regimen of multiple injections using an insulin (novopen) injector in a group of juvenile diabetics] Ugart Liñano R, et al. **An Esp Pediatr** 1990 Apr;32(4):299–302 (Eng. Abstr.) **(Spa)**

[Evaluation of the insulin requirements with an artificial pancreas in gestational diabetes] Fernández I, et al. **Med Clin (Barc)** 1989 Jun 24;93(4):129–33 (Eng. Abstr.) **(Spa)**

[Evaluation of the insulin requirements with an artificial pancreas in the pregnant woman with gestational insulin–dependent diabetes (type I)] Fernández I, et al. **Med Clin (Barc)** 1989 Jun 17;93(3):88–92 (Eng. Abstr.) **(Spa)**

[Immunotherapeutic management of juvenile diabetes mellitus] Moncada E. **Rev Esp Fisiol** 1989;45 Suppl:301–8 (22 ref.) (Eng. Abstr.) **(Spa)**

ECONOMICS

Services and cost of hospitalization for children and adolescents with insulin–dependent diabetes mellitus in New South Wales. Sutton L, et al. **Med J Aust** 1990 Feb 5;152(3):130–6

[Comment on the article by R. Petzoldt, Bad Oeynhausen: "Cost control in drug therapy of diabetes"] Ostendorf GM. **Versicherungsmedizin** 1989 Nov 1;41(6):203–4 **(Ger)**

ENZYMOLOGY

Effect of type I (insulin–dependent) diabetes mellitus on key glycolytic enzymes of red blood cells. Suhail M, et al. **Acta Diabetol Lat** 1989 Oct–Dec;26(4):315–20

Exocrine pancreatic function in children and adolescents with insulin–dependent diabetes mellitus. Lorini R, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):263–7

2'–5' oligoadenylate synthetase and its relationship to HLA and genetic markers of insulin–dependent diabetes mellitus. Hitman GA, et al. **Immunogenetics** 1989;30(6):427–31

Regulation of red cell acetylcholinesterase activity in diabetes mellitus. Suhail M, et al. **Indian J Exp Biol** 1990 Mar; 28(3):234–6

Red cell phosphoglycerate kinase in insulin–dependent diabetes mellitus. Suhail M, et al. **Indian J Med Res** 1990 Feb;92:21–3

Cytochrome P450IIE1 is elevated in lymphocytes from poorly controlled insulin–dependent diabetics. Song BJ, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):1036–40

Elevated aminotransferases and alkaline phosphatases in unstable diabetes mellitus without ketoacidosis or hypoglycemia. Olsson R, et al. **J Clin Gastroenterol** 1989 Oct;11(5):541–5

Immunoreactive trypsin(ogen) in the sera of children with recent–onset insulin–dependent diabetes and matched controls. The Swedish Childhood Diabetes Group. Landin–Olsson M, et al. **Pancreas** 1990 May;5(3):241–7

Decreased levels of serum alpha–isoamylase prior to diabetes onset in BB rats. Markholst H, et al. **Pancreas** 1990 Mar; 5(2):144–50

[Increase of serum gamma–glutamyl transferase activity in diabetic patients is not linked to diabetes itself] Barbieux JP, et al. **Pathol Biol (Paris)** 1990 Feb;38(2):93–8 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Prevalence of diabetes mellitus among Indian children in Manitoba. Dean H, et al. **Arctic Med Res** 1988;47 Suppl 1:532–4

High incidence of insulin–dependent diabetes mellitus (IDDM) in children in Finland. Reunanen A, et al. **Arctic Med Res** 1988;47 Suppl 1:535–9

Childhood diabetes in Arab countries. Diabetes Epidemiology Research International Study Group. **Bull World Health Organ** 1990;68(2):231–6

The prognosis of insulin–dependent diabetes mellitus. An epidemiological approach. Borch–Johnsen K. **Dan Med Bull** 1989 Sep;36(4):336–48 (145 ref.)

Secular trends in incidence of childhood IDDM in 10 countries. Diabetes Epidemiology Research International Group. **Diabetes** 1990 Jul;39(7):858–64

Epidemiological correlates of diabetic neuropathy. Report from Pittsburgh Epidemiology of Diabetes Complications Study. Maser RE, et al. **Diabetes** 1989 Nov;38(11):1456–61

Prevalence of complications in IDDM by sex and duration. Pittsburgh Epidemiology of Diabetes Complications Study II. Orchard TJ, et al. **Diabetes** 1990 Sep;39(9):1116–24

IDDM epidemiology. Next generation of research [letter; comment] Dorman JS, et al. **Diabetes Care** 1990 Feb; 13(2):184–5 Comment on: Diabetes Care 1989 Jul–Aug;12(7):506–8.

Colorado IDDM Registry: lower incidence of IDDM in Hispanics. Comparison of disease characteristics and care patterns in biethnic population. Gay EC, et al. **Diabetes Care** 1989 Nov–Dec;12(10):701–8

Colorado IDDM Registry. Incidence and validation of IDDM in children aged 0–17 yr. Hamman RF, et al. **Diabetes Care** 1990 May;13(5):499–506

The epidemiology and immunogenetics of IDDM in Italian–heritage populations. Diabetes Epidemiology Research International (DERI) Study Group. Colle E, et al. **Diabetes Metab Rev** 1990 Mar;6(2):63–9 (29 ref.)

The world of insulin–dependent diabetes mellitus: what international epidemiologic studies reveal about the etiology and natural history of IDDM. Patrick SL, et al. **Diabetes Metab Rev** 1989 Nov;5(7):571–8 (31 ref.)

Epidemiology of insulin dependent diabetes before age 20 in Wisconsin, with particular reference to seasonality. MacDonald MJ, et al. **Diabetes Res** 1989 Dec;12(4):151–60

Prevalence and age of onset of type I diabetes in adult Asians in the Coventry Diabetes Study. Simmons D. **Diabetic Med** 1990 Mar–Apr;7(3):238–41

Rising incidence of type 1 diabetes in Hungarian children (1978–1987). Hungarian Childhood Diabetes Epidemiology Group. Soltész G, et al. **Diabetic Med** 1990 Feb;7(2):111–4

Incidence and prevalence of type 1 (insulin–dependent) diabetes in Estonia in 1988. Kalits I, et al. **Diabetologia** 1990 Jun;33(6):346–9

Incidence of type 1 (insulin–dependent) diabetes mellitus in subjects 0–14 years of age in the Comunidad of Madrid, Spain. Serrano Ríos M, et al. **Diabetologia** 1990 Jul; 33(7):422–4

Using insulin U 100 conversion to estimate the prevalence and problems of insulin–treated diabetic patients in the Republic of Seychelles. Sullivan FM, et al. **Diabetologia** 1990 Mar;33(3):184–5

Evolution of the Pittsburgh studies of the epidemiology of insulin–dependent diabetes mellitus. Pittsburgh Diabetes Epidemiology and Etiology Research Group. Kuller LH, et al. **Genet Epidemiol** 1990;7(2):105–19

The epidemiology of diabetes in childhood with special reference to the Orient: implications for mechanism of beta cell damage. Drash AL, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S15–32 (127 ref.)

Long term prognosis: juvenile onset IDDM in Japan. Mimura G. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S117–23

The Swedish childhood diabetes study. An analysis of the temporal variation in diabetes incidence 1978–1987. Nyström L, et al. **Int J Epidemiol** 1990 Mar;19(1):141–6

Cluster analysis of an insulin–dependent diabetic cohort towards the definition of clinical subtypes. Ciampi A, et al. **J Clin Epidemiol** 1990;43(7):701–15

Diabetes mellitus on the Zambian Copperbelt. Rolfe M, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):255–9

Diabetes in Asian children [letter] Samanta A, et al. **Lancet** 1990 Jun 2;335(8701):1341

Insulin–treated diabetes in Tasmania: population–based clinical characteristics and their possible implications for diabetic health care in Australia. King H, et al. **Med J Aust** 1989 Oct 16;151(8):444, 446, 448, 450

Similar risks of nephropathy in patients with type I or type II diabetes mellitus. Hasslacher C, et al. **Nephrol Dial Transplant** 1989;4(10):859–63

[Epidemiology of juvenile insulin–dependent diabetes in Algeria (Wilaya of Oran)] Bessaoud K, et al. **Rev Epidemiol Sante Publique** 1990;38(2):91–9 (Eng. Abstr.) **(Fre)**

[Juvenile insulin–dependent diabetes in Wuhan Province, People's Republic of China. Incidence rate from 1971 to 1985] Xu YF, et al. **Rev Epidemiol Sante Publique** 1989; 37(3):227–31 (Eng. Abstr.) **(Fre)**

[Incidence of childhood diabetes in Hungary] Soltész G, et al. **Orv Hetil** 1989 Dec 24;130(52):2775–8 (16 ref.) (Eng. Abstr.) **(Hun)**

[An approach to childhood diabetes] Matsuura N. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):415–9 **(Jpn)**

[The central register for diabetes mellitus in children in Slovakia] Cernay J, et al. **Cesk Pediatr** 1989 Jul;44(7):385–8 (Eng. Abstr.) **(Slo)**

[Several clinico–epidemiologic aspects of diabetes mellitus] García de Alba J, et al. **Salud Publica Mex** 1989 Sep–Oct; 31(5):669–73 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Racial differences in the incidence of end–stage renal disease in types I and II diabetes mellitus. Stephens GW, et al. **Am J Kidney Dis** 1990 Jun;15(6):562–7

Aspartic acid at position 57 of the HLA–DQ beta chain is not protective against insulin–dependent diabetes mellitus in Japanese people. Ikegami H, et al. **J Autoimmun** 1990 Apr;3(2):167–74

ETIOLOGY

Cow milk and insulin–dependent diabetes mellitus: is there a relationship? Scott FW. **Am J Clin Nutr** 1990 Mar; 51(3):489–91

Dietary factors and the risk of developing insulin dependent diabetes in childhood. Dahlquist GG, et al. **BMJ** 1990 May 19;300(6735):1302–6

Coffee consumption as trigger for insulin dependent diabetes mellitus in childhood [see comments] Tuomilehto J, et al. **BMJ** 1990 Mar 10;300(6725):642–3 Comment in: BMJ 1990 Apr 14;300(6730):1012.

Aetiology of insulin–dependent diabetes. Leslie RD, et al. **Br Med Bull** 1989 Jan;45(1):58–72 (54 ref.)

Insulin–dependent diabetes mellitus. Cohen IR. **Curr Opin Immunol** 1989 Apr;1(4):727–32 (24 ref.)

The pathogenesis of autoimmune diabetes mellitus. Rossini AA, et al. **Curr Opin Immunol** 1989–90 Apr;2(4):598–603 (32 ref.)

Could bovine serum albumin be the initiating antigen ultimately responsible for the development of insulin dependent diabetes mellitus? Glerum M, et al. **Diabetes Res** 1989 Mar;10(3):103–7

The possibility that pancreatic beta cell destruction leading to type 1 diabetes is initiated by the release of cytokines by polyclonal activation of the immune system. Ziegler M, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):110–8

An infectious aetiology of insulin–dependent diabetes mellitus? Role of the secretor status. Patrick AW, et al. **FEMS Microbiol Immunol** 1989 Jun;1(6–7):411–6 (46 ref.)

Diabetic retinopathy in chronic pancreatitis. Gullo L, et al. **Gastroenterology** 1990 Jun;98(6):1577–81

Diverse patterns of immune and non–immune–mediated disease in EMC M–variant–infected mice. Craighead JE, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:27–9 (12 ref.)

Viruses and diabetes: diabetogenic role for endogenous retroviruses in NOD mice? Leiter EH, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:31–40 (40 ref.)

Glucose turnover and recycling in diabetes secondary to total pancreatectomy: effect of glucagon infusion. Vigili de Kreutzenberg S, et al. **J Clin Endocrinol Metab** 1990 Apr; 70(4):1023–9

Stress hyperglycemia in childhood: a very high risk group for the development of type I diabetes. Vardi P, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):75–7

A possible role for bacteria in the pathogenesis of insulin dependent diabetes mellitus. Morris JA. **Med Hypotheses** 1989 Aug;29(4):231–5

Characterization of the spontaneous diabetes obesity syndrome in mature male CBA/Ca mice. Connelly DM, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):255–9

What do epidemiologic observations tell us about the etiology of insulin dependent diabetes mellitus? Drash AL. **Schweiz Med Wochenschr** 1990 Jan 20;120(3):39–45 (60 ref.)

Peripheral T cells in diabetes prone (DP) BB rats are CD45R–negative. Groen H, et al. **Thymus** 1989; 14(1–3):145–50

Defects in the thymic epithelial stroma of diabetes prone BB rats. Rozing J, et al. **Thymus** 1989;14(1–3):125–35

Evidence for normal thymic export of lymphocytes and an intact RT6a gene in RT6 deficient diabetes prone BB–rats. Thiele HG, et al. **Thymus** 1989;14(1–3):137–43

[Islands of Langerhans and diabetes—ecoendocrinology—evolution of hormone systems] Hanke W, et al. **Dtsch Med Wochenschr** 1989 Nov 24;114(47):1854–8 **(Ger)**

[The pathogenesis of type 1 diabetes mellitus] Schönle EJ. **Ther Umsch** 1990 Jan;47(1):15–21 (23 ref.) (Eng. Abstr.) **(Ger)**

[Status of diabetes in Ethiopia as a contribution to tropical diabetes mellitus] Dabels J, et al. **Z Gesamte Inn Med** 1990 Jan 15;45(2):47–9 (Eng. Abstr.) **(Ger)**

[Etiology of IDDM] Goto Y. **Nippon Rinsho** 1989 Nov; 47(11):2450–60 **(Jpn)**

[Adipose tissue distribution in children with excessive body weight and the possibility of development of complications of obesity. II. Positive family history in relation to arteriosclerosis risk factor and the constitutional type of obesity in children] Krawczuk–Rybakowa M, et al. **Pediatr Pol** 1989 Jul;64(7):467–73 (Eng. Abstr.) **(Pol)**

[The role of viral infection in the development of diabetes mellitus and disorders of glucose tolerance in children and adolescents] Khusainov KD, et al. **Pediatriia** 1989;(8):110–1 **(Rus)**

GENETICS

T–cell receptor genes and insulin–dependent diabetes mellitus (IDDM): no evidence for linkage from affected sib pairs. Concannon P, et al. **Am J Hum Genet** 1990 Jul;47(1):45–52

Autoimmune thyroid phenomena are not evidence for human lymphocyte antigen–genetic heterogeneity in insulin–dependent diabetes. Allen DB, et al. **Am J Med Genet** 1989 Jul;33(3):405–8

Insulin–dependent diabetes mellitus in an Inuit child. Carson J, et al. **Arctic Med Res** 1988;47 Suppl 1:540–1

Lack of association of T cell receptor beta–chain constant region polymorphism with insulin–dependent diabetes mellitus in Finland. Reijonen H, et al. **Clin Exp Immunol** 1990 Sep;81(3):396–9

Mental retardation, craniofacial dysmorphism, hypogonadism, diabetes mellitus and epilepsy in four siblings. A "new" mental retardation syndrome. Fryns JP, et al. **Clin Genet** 1990 Feb;37(2):111–6

Genetic susceptibility to the development of spontaneous insulin–dependent diabetes mellitus in the rat. Colle E. **Clin Immunol Immunopathol** 1990 Oct;57(1):1–9

Determinants of genetic susceptibility in HLA–associated autoimmune disease. Nepom GT. **Clin Immunol Immunopathol** 1989 Nov;53(2 Pt 2):S53–62

The genetics of susceptibility to diabetes. Wassmuth R, et al. **Clin Immunol Immunopathol** 1989 Dec;53(3):358–99 (246 ref.)

The genetics of insulin–dependent diabetes in the BB rat. Kastern W, et al. **Curr Top Microbiol Immunol** 1990; 156:87–102 (42 ref.)

HLA–DP variation as additional risk factor in IDDM. Easteal S, et al. **Diabetes** 1990 Jul;39(7):855–7

Elevated proinsulin in healthy siblings of IDDM patients independent of HLA identity. Hartling SG, et al. **Diabetes** 1989 Oct;38(10):1271–4

Genetic control of diabetogenesis in NOD/Lt mice. Development and analysis of congenic stocks. Prochazka M, et al. **Diabetes** 1989 Nov;38(11):1446–55

No excess of DR*3/4 in Ashkenazi Jewish or Hispanic IDDM patients. Rubinstein P, et al. **Diabetes** 1990 Sep; 39(9):1138–43

Rapid detection of IDDM susceptibility with HLA–DQ beta–alleles as markers. Trucco G, et al. **Diabetes** 1989 Dec; 38(12):1617–22

Immunogenetic analysis of beta–cell autoimmunity in NOD mice. Relationship of insulitis to T–lymphocyte–receptor beta nod and A beta nod genes. Winter WE, et al. **Diabetes** 1990 Aug;39(8):975–82

Analysis of metabolic progression to type I diabetes in ICA+ relatives of patients with type I diabetes. Bleich D, et al. **Diabetes Care** 1990 Feb;13(2):111–8

B–cell responses to intravenous glucose and glucagon in non–diabetic twins of patients with type 1 (insulin–dependent) diabetes mellitus. Heaton DA, et al. **Diabetologia** 1989 Nov;32(11):814–7

Identification of susceptibility loci for type 1 (insulin–dependent) diabetes by trans–racial gene mapping. Jenkins D, et al. **Diabetologia** 1990 Jul;33(7):387–95 (73 ref.)

HLA–DQB 1 codon 57 and genetic susceptibility to type 1 (insulin–dependent) diabetes mellitus in French children. Vallet–Colom I, et al. **Diabetologia** 1990 Mar;33(3):174–6

Application of synthetic oligonucleotides to detect DQ beta genes transmission within insulin–dependent diabetes families. Toyoda H, et al. **Dis Markers** 1989 Oct–Dec; 7(4):215–28

Insulin dependent diabetes mellitus epidemiology: HLA genotype study in 12 north eastern Italian families with two siblings affected by type I diabetes. Pinelli L, et al. **Eur J Epidemiol** 1989 Dec;5(4):456–61

The gene for the T lymphocyte alloantigen, RT6, is not linked to either diabetes or lymphopenia and is not defective in the BB rat. Lang F, et al. **Eur J Immunol** 1989 Oct;19(10):1785–9

The higher frequency of type I (insulin–dependent) diabetes in fathers than in mothers of type I–diabetic children. Rjasanowski I, et al. **Exp Clin Endocrinol** 1990 Feb; 95(1):91–6

A single dose of the MHC–linked susceptibility determinant associated with the RT1u haplotype is permissive for insulin–dependent diabetes mellitus in the BB rat. Fuks A, et al. **Exp Clin Immmunogenet** 1990;7(3):162–9

Susceptibility and resistance genes to insulin–dependent diabetes mellitus in the BB rat. Ono SJ, et al. **Exp Clin Immmunogenet** 1989;6(2):169–78

Increased risk for gestational diabetes mellitus associated with insulin receptor and insulin–like growth factor II restriction fragment length polymorphisms. Ober C, et al. **Genet Epidemiol** 1989;6(5):559–69

DQA1 restriction fragment length polymorphisms and insulin–dependent diabetes mellitus: a BglII fragment labels a subset of B8,DR3 haplotypes uniquely associated with insulin–dependent diabetes mellitus. Carrier C, et al. **Hum Immunol** 1989 Dec;26(4):344–52

The amino acid at position 57 of the HLA–DQ beta chain and susceptibility to develop insulin–dependent diabetes mellitus. Rønningen KS, et al. **Hum Immunol** 1989 Nov; 26(3):215–25

Allelic T–cell receptor alpha complexes have little or no influence on susceptibility to type 1 diabetes. Sheehy MJ, et al. **Hum Immunol** 1989 Dec;26(4):261–71

Heterogeneity of HLA genetic factors in IDDM susceptibility. Martell M, et al. **Immunogenetics** 1990; 31(4):233–40

The genetics and epidemiology of diabetes in NOD mice [news] Leiter EH, et al. **Immunol Today** 1990 May; 11(5):147–9

Supratypes and ancestral haplotypes in IDDM: potential importance of central non–HLA MHC genes. Dawkins RL, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:63–8 (11 ref.)

Restriction fragment length polymorphisms in the major histocompatibility complex of the non–obese diabetic mouse. Lund T, et al. **J Autoimmun** 1990 Jun;3(3):289–98

Tolerance and diabetes in transgenic mice over–expressing class I histocompatibility molecules in pancreatic beta cells. Miller JF, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:87–90 (12 ref.)

Genetic susceptibility to type I diabetes: a review. Tait BD. **J Autoimmun** 1990 Apr;3 Suppl 1:3–11 (39 ref.)

Type I diabetes: polygenic inheritance, multiple autoantigens and 'dual' parameter prediction. Ziegler R, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:69–74 (14 ref.)

Lack of preferential transmission of diabetic HLA alleles by healthy parents to offspring in Spanish diabetic families. Martín–Villa JM, et al. **J Clin Endocrinol Metab** 1990 Feb; 70(2):346–8

A combination of HLA–DQ beta Asp57–negative and HLA DQ alpha Arg52 confers susceptibility to insulin–dependent diabetes mellitus. Khalil I, et al. **J Clin Invest** 1990 Apr; 85(4):1315–9

MHC antigen induction by interferon gamma on cultured mouse pancreatic beta cells and macrophages. Genetic analysis of strain differences and discovery of an "occult" class I–like antigen in NOD/Lt mice. Leiter EH, et al. **J Exp Med** 1989 Oct 1;170(4):1243–62

TNF–alpha gene polymorphisms: association with type I (insulin–dependent) diabetes mellitus. Badenhoop K, et al. **J Immunogenet** 1989 Dec;16(6):455–60

Study of family history among parents and siblings of Ethiopian diabetics: a preliminary report. Mengesha B, et al. **J Trop Med Hyg** 1990 Feb;93(1):39–41

Immunogenetic markers for autoimmune diseases of the endocrine system. Badenhoop K. **Klin Wochenschr** 1990;68 Suppl 21:10–4

Class II histocompatibility genes and insulin–dependent diabetes mellitus. Serjeantson SW, et al. **Mol Biol Med** 1989 Jun;6(3):219–26 (49 ref.)

Analysis of HLA–DQ genotypes and susceptibility in insulin–dependent diabetes mellitus [see comments] Baisch JM, et al. **N Engl J Med** 1990 Jun 28;322(26):1836–41 Comment in: N Engl J Med 1990 Jun 28;322(26):1879–81.

Unilateral renal agenesis associated with various metabolic disorders in three siblings. Uchida S, et al. **Nephron** 1990; 54(1):86–8

Studies on the HLA association to insulin–dependent diabetes mellitus (IDDM). Lundin KE, et al. **Pol Arch Med Wewn** 1988 Aug–Sep;80(2–3):144–50

The A3 allele of the HLA–DQA1 locus is associated with susceptibility to type 1 diabetes in Japanese. Todd JA, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1094–8

Marked shortage of C4B DNA polymorphism among insulin–dependent diabetic patients. Marcelli–Barge A, et al. **Res Immunol** 1990 Feb;141(2):117–28

HLA heterozygosity in insulin–dependent diabetes is most frequent at the DQ locus. Michelsen B, et al. **Scand J Immunol** 1990 Apr;31(4):405–13

Restriction fragment length polymorphism analysis of HLA haplotypes in families with type I diabetes mellitus. Badenhoop K, et al. **Tissue Antigens** 1990 Jan;35(1):32–9

HLA–DP, –DQ and –DR RFLP types in south Indian insulin–dependent diabetes mellitus patients. Easteal S, et al. **Tissue Antigens** 1990 Feb;35(2):71–4

HLA–DQ antigens and DQ beta amino acid 57 of Japanese patients with insulin–dependent diabetes mellitus: detection of a DRw8DQw8 haplotype. Lundin KE, et al. **Tissue Antigens** 1989 Oct;34(4):233–41

[Diabetes type in families with children of diabetic mothers] Dvořáková L, et al. **Cesk Pediatr** 1989 Jul;44(7):389–93 (Eng. Abstr.) **(Cze)**

[Long–term study of children of diabetic mothers] Osičková L, et al. **Cesk Pediatr** 1989 Jul;44(7):399–400 **(Cze)**

[Increased risk of insulin–dependent diabetes for siblings of diabetic children with the DR 3 haplotype of the mother] Deschamps I, et al. **C R Acad Sci [III]** 1989;308(19):501–6 (Eng. Abstr.) **(Fre)**

[The role of genetic and immunological factors in the etiology of insulin–dependent diabetes] Deschamps I, et al. **Schweiz Med Wochenschr** 1990 Jan 20;120(3):46–53 (30 ref.) (Eng. Abstr.) **(Fre)**

[Genetic determinants of diabetes mellitus] Tillil H, et al. **Internist (Berl)** 1989 Sep;30(9):536–46 (50 ref.) **(Ger)**

[Takayasu's disease. A review of the literature. A study of a familial case of Takayasu's arteritis and the possible associations with type–1 diabetes mellitus] Valentini F, et al. **Minerva Med** 1989 Dec;80(12):1351–8 (18 ref.) (Eng. Abstr.) **(Ita)**

[The families of diabetic children: a 2–year follow–up] Blasetti A, et al. **Pediatr Med Chir** 1989 Sep–Oct; 11(5):507–11 (Eng. Abstr.) **(Ita)**

[Genetic aspects of diabetes mellitus] Davidenkova EF, et al. **Klin Med (Mosk)** 1990 Jan;68(1):7–14 (58 ref.) **(Rus)**

[Susceptibility to chronic HLA–system–associated lymphocytic thyroiditis. Its relationship with insulin–dependent diabetes mellitus] Plensa I, et al. **Med Clin (Barc)** 1989 Dec 16;93(20):761–4 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Impairment of lymphocyte suppressive system in recent onset insulin–dependent diabetes mellitus. Correlation with blood glucose and serum insulin levels. Secchi A, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):257–63

Alterations of the respiratory burst of polymorphonuclear leukocytes from diabetic children. A chemiluminescence study. Kantar A, et al. **Acta Paediatr Scand** 1990 May; 79(5):535–41

Type–I diabetes: a chronic autoimmune disease of human, mouse, and rat. Castaño L, et al. **Annu Rev Immunol** 1990; 8:647–79 (233 ref.)

Immunopathogenesis and immunotherapy of type 1 diabetes. Wilson K, et al. **Annu Rev Med** 1990;41:497–508 (61 ref.)

Pathogenesis of type I (insulin–dependent) diabetes: possible mechanisms of autoimmune damage. Bottazzo GF, et al. **Br Med Bull** 1989 Jan;45(1):37–57 (91 ref.)

Immune activation and T cell subset abnormalities in circulation of patients with recently diagnosed type I diabetes mellitus. al–Kassab AS, et al. **Clin Exp Immunol** 1990 Aug;81(2):267–71

Natural thymocytotoxic autoantibodies in non–obese diabetic (NOD) mice: characterization and fine specificity. Lehuen A, et al. **Clin Exp Immunol** 1990 Sep;81(3):406–11

Longitudinal study of islet cell antibodies and insulin autoantibodies and development of diabetes in non–obese diabetic (NOD) mice. Reddy S, et al. **Clin Exp Immunol** 1990 Sep;81(3):400–5

Immune complex–mediated inhibition of lymphocyte Fc–gamma receptors in the plasma of patients with type 1 (insulin–dependent) diabetes mellitus: association with anti–ssDNA antibodies. Guarnotta G, et al. **Clin Immunol Immunopathol** 1990 Feb;54(2):228–36

Immunoregulation of anti–islet cell antibody in insulin–dependent diabetes: failure to detect anti–idiotypic antibody following seroconversion. Kyner JL, et al. **Clin Immunol Immunopathol** 1989 Nov;53(2 Pt 1):321–8

Correlation between islet cell antibodies and anti–cytomegalovirus IgM and IgG antibodies in healthy first–degree relatives of type 1 (insulin–dependent) diabetic patients. Nicoletti F, et al. **Clin Immunol Immunopathol** 1990 Apr;55(1):139–47

Insulin dependent diabetes mellitus, an autoimmune disorder? Riley WJ. **Clin Immunol Immunopathol** 1989 Nov;53(2 Pt 2):S92–8 (42 ref.)

Transgenic models of diabetes. Sarvetnick N. **Curr Opin Immunol** 1989–90 Apr;2(4):604–6 (5 ref.)

The role of class II molecules in development of insulin–dependent diabetes mellitus in mice, rats and humans. Acha–Orbea H, et al. **Curr Top Microbiol Immunol** 1990;156:103–19 (60 ref.)

Immune pathogenesis of diabetes in the nonobese diabetic mouse: an overview. Hanafusa T, et al. **Curr Top Microbiol Immunol** 1990;156:15–25 (61 ref.)

Monoclonal (auto)antibodies in insulin–dependent diabetes mellitus. Madsen OD, et al. **Curr Top Microbiol Immunol** 1990;156:75–86 (85 ref.)

Association of IDDM and attenuated response of 2',5'–oligoadenylate synthetase to yellow fever vaccine. Bonnevie–Nielsen V, et al. **Diabetes** 1989 Dec; 38(12):1636–42

Persistence of serum antibodies to 64,000–Mr islet cell protein after onset of type I diabetes. Christie MR, et al. **Diabetes** 1990 Jun;39(6):653–6

Abnormal T–lymphocyte subsets in type I diabetes. Faustman D, et al. **Diabetes** 1989 Nov;38(11):1462–8

Impaired mitogen–induced expression of high–affinity interleukin 2 receptors on spleen cells from NOD/Shi/Kbe mice. Hatamori N, et al. **Diabetes** 1990 Sep;39(9):1070–8

Islet cell antibodies as predictive markers for IDDM in children with high background incidence of disease. Karjalainen JK. **Diabetes** 1990 Sep;39(9):1144–50

Recognition of common islet antigen by autoantibodies from NOD mice and humans with IDDM. Karounos DG, et al. **Diabetes** 1990 Sep;39(9):1085–90

Flow–cytometric detection of human anti–rat insulinoma antibodies in relation to anti–human islet cell and anti–insulin antibodies. Recognition of distinct antigens by antibodies in early type I diabetes. Lander T, et al. **Diabetes** 1989 Dec;38(12):1557–66

Transgenic mouse models of type I diabetes. Lipes MA, et al. **Diabetes** 1990 Aug;39(8):879–84 (50 ref.)

Correlation between residual beta–cell function and islet cell antibodies in newly diagnosed type I diabetes. Follow–up study. Peig M, et al. **Diabetes** 1989 Nov;38(11):1396–401

Clinical significance of insulin antibodies in insulin–treated diabetic patients. Van Haeften TW. **Diabetes Care** 1989 Oct;12(9):641–8 (81 ref.)

Different percentages of CD8+ lymphocytes in long–term type 1 diabetics with and without residual beta cell function. Buschard K, et al. **Diabetes Res** 1989 Nov; 12(3):105–8

Increased levels of circulating immune complexes are not associated with diabetes in BB rats. Contreas G, et al. **Diabetes Res** 1989 Mar;10(3):109–13

Low levels of mumps virus antigen induced interferon–alpha production in insulin–dependent diabetes. Ilonen J, et al. **Diabetes Res** 1989 Oct;12(2):75–8

Insulin autoantibodies in mouse models of insulin–dependent diabetes. Maruyama T, et al. **Diabetes Res** 1989 Jun; 11(2):61–5

Islet–cell antibodies: markers of a more severe insulin–dependent diabetes mellitus? Montaña E, et al. **Diabetes Res** 1989 Aug;11(4):167–71

Thymopentin administration and increase of sero–conversion after B–hepatitis vaccine in diabetic patients. Pagani S, et al. **Diabetes Res** 1989 Dec;12(4):199–201

Determination of islet cell surface antibodies in first–degree relatives of type 1 diabetic patients using rat insulinoma cells. Ziegler B, et al. **Diabetes Res** 1989 Sep;12(1):25–9

Interleukin 2/interleukin 2 receptor system in type 1 diabetes. Hatamori N, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S67–72 (46 ref.)

Immunogenetics of early–onset insulin–dependent diabetes mellitus among the Japanese: HLA, Gm, BF, GLO, and organ–specific autoantibodies—the J.D.S. study. Mimura G, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):253–62

Activated CD4+ and CD8+ T–lymphocytes in newly diagnosed type 1 diabetes: a prospective study. Buschard K, et al. **Diabetic Med** 1990 Feb;7(2):132–6

Effect of initiation of insulin therapy on T–lymphocyte activation in type 1 diabetes. Peakman M, et al. **Diabetic Med** 1990 May;7(4):327–30

Excess of maternal HLA–DR3 antigens in HLA DR3,4 positive type 1 (insulin–dependent) diabetic patients. Deschamps I, et al. **Diabetologia** 1990 Jul;33(7):425–30

Pancreatic cytokeratin: an antigen of pancreatic exocrine cell autoantibodies in type 1 (insulin–dependent) diabetes mellitus. Kobayashi T, et al. **Diabetologia** 1990 Jun; 33(6):363–70

Is quantitative assessment of insulin–antibodies and autoantibodies feasible? Koch M, et al. **Diabetologia** 1989

Nov;32(11):774–8
HLA–DQ beta–chain restriction fragment length polymorphism as a risk marker in type 1 (insulin–dependent) diabetes mellitus: a Finnish family study. Reijonen H, et al. **Diabetologia** 1990 Jun;33(6):357–62
Autoantibodies to the insulin receptor are infrequent findings in type 1 (insulin–dependent) diabetes mellitus of recent onset. Rochet N, et al. **Diabetologia** 1990 Jul;33(7):411–6
The Swedish childhood diabetes study III: IgM against coxsackie B viruses in newly diagnosed type 1 (insulin–dependent) diabetic children—no evidence of increased antibody frequency. Tuvemo T, et al. **Diabetologia** 1989 Oct;32(10):745–7
Aspartic acid at position 57 of DQ beta chain does not protect against type 1 (insulin–dependent) diabetes mellitus in Japanese subjects. Yamagata K, et al. **Diabetologia** 1989 Oct;32(10):762–4
Insulin autoantibodies as markers for type I diabetes. Wilkin TJ. **Endocr Rev** 1990 Feb;11(1):92–104 (111 ref.)
Epidemiology of islet cell antibodies. Lipton R, et al. **Epidemiol Rev** 1989;11:182–203 (114 ref.)
Complement–dependent antibody–mediated cytotoxicity in the spontaneously diabetic BB/OK rat: association with beta cell volume density. Hehmke B, et al. **Eur J Immunol** 1990 May;20(5):1091–6
Paradoxical lessening of autoimmune processes in non–obese diabetic mice after infection with the diabetogenic variant of encephalomyocarditis virus. Hermitte L, et al. **Eur J Immunol** 1990 Jun;20(6):1297–303
Autoantibodies against insulin (IAA), C–peptide (CAA), and glucagon (GAA) in new–onset type 1 diabetic patients. Keilacker H, et al. **Exp Clin Endocrinol** 1990 Feb; 95(1):123–8
Autologous mixed lymphocyte reaction in newly diagnosed type–1 diabetes. Knospe S, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):148–56
Persistence of anti–islet ADCC after manifestation of type–1 (insulin–dependent) diabetes. Köhler E, et al. **Exp Clin Endocrinol** 1989;94(3):357–62
Immunological disorders of type 1 diabetes mellitus. Ziegler M, et al. **Exp Clin Endocrinol** 1989 Sep;94(1–2):97–114 (168 ref.)
HLA–DR1 and HLA–DR3 phenotypes and insulin antibody production in diabetic Sicilian patients. Caruso C, et al. **Exp Clin Immunogenet** 1988;5(1):48–51
Immunoglobulin allotypes and virus antibodies in Finnish type 1 diabetic patients. Hyöty H, et al. **Exp Clin Immunogenet** 1988;5(1):52–9
Different effects of duration on prevalence of anti–adrenal medullary and pancreatic islet cell antibodies in type I diabetes mellitus. Brown FM, et al. **Horm Metab Res** 1989 Aug;21(8):434–7
Isolation of IgG islet cell autoantibody–producing B lymphocytes from the peripheral blood of type 1 diabetic patients and an ICA–positive non–diabetic individual. Richter W, et al. **Horm Metab Res** 1989 Dec;21(12):686–8
Spontaneous and pokeweed mitogen–induced in vitro IgM production in children and adolescents with insulin–dependent diabetes mellitus. Lorini R, et al. **Horm Res** 1989;32(5–6):208–12
Immune responses to insulin and lymphocyte subclasses at diagnosis of insulin–dependent diabetes and one year later. Scheinin T, et al. **Immunobiology** 1990 Jun;180(4–5):431–40
Enhanced percentage of CD5+ B lymphocytes in newly diagnosed IDDM patients. Nicoletti F, et al. **Immunol Lett** 1990 Jan;23(3):211–5
Genetic control of autoimmunity in type 1 diabetes. Todd JA. **Immunol Today** 1990 Apr;11(4):122–9 (82 ref.)
Immunological aspects on IDDM in children. Ludvigsson J. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S7–14 (47 ref.)
Deleterious effect of anti–insulin antibodies on diabetes control. Livnch A, et al. **Isr J Med Sci** 1990 Jan;26(1):11–5
Immunity in diabetes mellitus [letter] Narang NK, et al. **J Assoc Physicians India** 1989 Sep;37(9):614
Ninth International Workshop on the Immunology of Diabetes. Papers from an international meeting in Melbourne, Australia, in November 1988. **J Autoimmun** 1990 Apr;3 Suppl 1:1–136
A new view of the beta cell as an antigen–presenting cell and immunogenic target. Campbell IL, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:53–62 (28 ref.)
Phagocyte oxidative metabolism in cyclosporine– or placebo–treated patients with insulin–dependent (type I) diabetes mellitus of recent onset. Descamps–Latscha B, et al. **J Autoimmun** 1990 Apr;3(2):201–13
Analysis of T lymphocyte subsets in all stages of diabetes. Faustman D, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:111–6
Does viral infection initiate autoimmunity in type I diabetes? Foulis AK. **J Autoimmun** 1990 Apr;3 Suppl 1:21–6 (19 ref.)
The transfer of autoimmune diabetes in NOD mice can be inhibited or accelerated by distinct cell populations present in normal splenocytes taken from young males. Hutchings PR, et al. **J Autoimmun** 1990 Apr;3(2):175–85
Cellular immunity to human insulin in individuals at high risk for the development of type I diabetes mellitus. Keller RJ. **J Autoimmun** 1990 Jun;3(3):321–7
Ectopic class II MHC antigen expression and the development of diabetes. Lafferty KJ, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:75–80 (24 ref.)
Cytokine–mediated beta–cell destruction—the molecular effector mechanism causing IDDM? Mandrup–Poulsen T. **J Autoimmun** 1990 Apr;3 Suppl 1:121–2
Tolerance and diabetes in transgenic mice over–expressing class I histocompatibility molecules in pancreatic beta cells. Miller JF, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:87–90 (12 ref.)
Cellular and subcellular localization of an Mr 64,000 protein autoantigen in insulin–dependent diabetes. Christie MR, et al. **J Biol Chem** 1990 Jan 5;265(1):376–81
Sulfated beef insulin treatment elicits CD8+ T cells that may abrogate immunologic insulin resistance in type I diabetes. Naquet P, et al. **J Clin Invest** 1989 Nov;84(5):1479–87
C4 and Bf phenotypes in black and Caucasian patients with childhood onset insulin dependent diabetes mellitus. Wang C, et al. **J Clin Lab Immunol** 1989 Dec;30(4):183–90
Distinct antibody specificities to a 64–kD islet cell antigen in type 1 diabetes as revealed by trypsin treatment. Christie MR, et al. **J Exp Med** 1990 Sep 1;172(3):789–94
Frequency of B cells committed to the production of antibodies to insulin in newly diagnosed patients with insulin–dependent diabetes mellitus and generation of high affinity human monoclonal IgG to insulin. Casali P, et al. **J Immunol** 1990 May 15;144(10):3741–7
Abnormal thymocyte maturation in spontaneously diabetic BB rats involves the deletion of CD4–8+ cells. Plamondon C, et al. **J Immunol** 1990 Feb 1;144(3):923–8
IL–1 beta modulation of spontaneous autoimmune diabetes and thyroiditis in the BB rat. Wilson CA, et al. **J Immunol** 1990 May 15;144(10):3784–8
On the pathogenesis of type 1 (insulin–dependent) diabetes mellitus: facts, areas still under development and new perspectives. Bottazzo GF, et al. **Klin Wochenschr** 1990;68 Suppl 21:26–37 (121 ref.)
The 64 K question in diabetes [editorial; comment] **Lancet** 1990 Sep 8;336(8715):597–8 Comment on: Lancet 1990 Sep 8;336(8715):583–5.
64,000 Mr autoantibodies as predictors of insulin–dependent diabetes. Atkinson MA, et al. **Lancet** 1990 Jun 9; 335(8702):1357–60
Quantification of islet–cell antibodies and prediction of insulin–dependent diabetes. Bonifacio E, et al. **Lancet** 1990 Jan 20;335(8682):147–9
Heat–shock protein 65 as a beta cell antigen of insulin–dependent diabetes [see comments] Jones DB, et al. **Lancet** 1990 Sep 8;336(8715):583–5 Comment in: Lancet 1990 Sep 8;336(8715):597–8.
Antibodies to thymic hormone and HLA–DQ in type I diabetes [letter] Kolb H, et al. **Lancet** 1990 Sep 1; 336(8714):570–1
Comparative study of insulin antibodies in diabetic patients with primary insulin–dependence (type I) and secondary insulin–dependence (type II). Ionescu–Tîrgoviște C, et al. **Med Interne** 1989 Oct–Dec;27(4):303–11
Inhibition of glucose transport into rat islet cells by immunoglobulins from patients with new–onset insulin–dependent diabetes mellitus [published erratum appears in N Engl J Med 1990 Apr 5;322(14):1019] Johnson JH, et al. **N Engl J Med** 1990 Mar 8;322(10):653–9
Identification of the 64K autoantigen in insulin–dependent diabetes as the GABA–synthesizing enzyme glutamic acid decarboxylase. Baekkeskov S, et al. **Nature** 1990 Sep 13; 347(6289):151–6
Prevention of insulin–dependent diabetes mellitus in non–obese diabetic mice by transgenes encoding modified I–A beta–chain or normal I–E alpha–chain [see comments] Lund T, et al. **Nature** 1990 Jun 21;345(6277):727–9 Comment in: Nature 1990 Jun 21;345(6277):662–3.
Direct evidence for the contribution of the unique I–ANOD to the development of insulitis in non–obese diabetic mice [see comments] Miyazaki T, et al. **Nature** 1990 Jun 21; 345(6277):722–4 Comment in: Nature 1990 Jun 21;345(6277):662–3.
An explanation for the protective effect of the MHC class II I–E molecule in murine diabetes. Reich EP, et al. **Nature** 1989 Sep 28;341(6240):326–8
T–cell clones from a type–1 diabetes patient respond to insulin secretory granule proteins. Roep BO, et al. **Nature** 1990 Jun 14;345(6276):632–4
Prevention of diabetes in non–obese diabetic I–Ak transgenic mice [see comments] Slattery RM, et al. **Nature** 1990 Jun 21;345(6277):724–6 Comment in: Nature 1990 Jun 21;345(6277):662–3.
Immunological aspects of diabetes. Cheta D. **Recenti Prog Med** 1990 Feb;81(2):72–8 (68 ref.)
Characterization of PPD–specific T–cell lines generated in type I (insulin–dependent) diabetic and healthy individuals. Mølvig J, et al. **Scand J Immunol** 1989 Nov;30(5):615–29
What causes diabetes? Atkinson MA, et al. **Sci Am** 1990 Jul; 263(1):62–3, 66–71 (0 ref.)
Molecular basis and functional importance of some disease–associated HLA polymorphisms. Thorsby E, et al. **Tissue Antigens** 1989 Jul;34(1):39–49 (34 ref.)
Analyses of development of insulitogenic T lymphocytes in NOD mice by transplantation of bone marrow, thymus, and pancreas. Ida T, et al. **Transplantation** 1990 May; 49(5):976–82
[Variations in indicators of humoral immunity in type I diabetes] Hulínský I, et al. **Vnitr Lek** 1990 Feb;36(2):147–53 (Eng. Abstr.) (Cze)
[Vaccination against influenza, 1989/'90 (letter)] Erkelens DW, et al. **Ned Tijdschr Geneeskd** 1989 Oct 7;133(40):1995 (Dut)
["Diabetic rosettes": a cellular immunity marker in subjects at risk for type I diabetes] Bardet S, et al. **Ann Biol Clin (Paris)** 1990;48(2):99–104 (Eng. Abstr.) (Fre)
[1990 Apollinaire Bouchardat Prize. Immunology of insulin–dependent diabetes mellitus: in vitro and in vivo study models in animals] Boitard C. **Journ Annu Diabetol Hotel Dieu** 1990;:285–99 (Fre)
[HLA system and DNA polymorphism of the HLA–DR region in Chinese insulin–dependent diabetic patients] Chen JL. **Journ Annu Diabetol Hotel Dieu** 1990;:223–30 (Fre)
[Autoimmunity and insulin–dependent diabetes mellitus. Experimental data and therapeutic prospects] Thivolet C, et al. **Pediatrie** 1989;44(4):247–57 (61 ref.) (Eng. Abstr.) (Fre)
[Diabetes mellitus. No fetal diabetes caused by maternal immune factors (news)] Böhm BD. **Fortschr Med** 1989 Jul 30;107(22):8–9 (Ger)
[Interleukin–2 modifies the development of insulin–dependent diabetes of BB rats] Zielasek J, et al. **Immun Infekt** 1990 Apr;18(2):55–6 (Eng. Abstr.) (Ger)
[Change of incidence of antinuclear antibodies in serum of NOD mouse with aging] Machida N, et al. **Jikken Dobutsu** 1989 Oct;38(4):345–7 (Eng. Abstr.) (Jpn)
[Analysis of islet cell surface antigen reactions with islet cell surface antibodies (ICSA)] Hakamata M, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Jul 20;66(7):700–14 (Eng. Abstr.) (Jpn)
[Cellular immune dysfunction in the NOD mouse: suppression of concanavalin A–induced responses in spleen cells by activated macrophages] Kawase Y, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Jul 20;65(7):674–85 (Eng. Abstr.) (Jpn)
[Studies on the pathogenesis of type I diabetes mellitus—destruction of pancreatic beta cells by cytotoxic T lymphocytes in nonobese diabetic mice] Nagata M. **Nippon Naibunpi Gakkai Zasshi** 1990 Mar 20;66(3):145–58 (Eng. Abstr.) (Jpn)
[Anti–thyroid autoantibodies in children with insulin–dependent diabetes mellitus] Smorawińska A, et al. **Endokrynol Pol** 1989;40(4):163–70 (Eng. Abstr.) (Pol)
[The number and ultrastructure of CD4+ lymphocytes in the blood of healthy persons and in patients with type 1 diabetes mellitus] Khomenko RM, et al. **Fiziol Zh** 1989 Sep–Oct;35(5):31–7 (Eng. Abstr.) (Rus)
[Study of lymphocyte subpopulations and the expression of activation markers in diabetes mellitus types 1 and 2] Salozhin KV, et al. **Klin Med (Mosk)** 1989 Oct; 67(10):118–21 (Eng. Abstr.) (Rus)
[Informative significance of immunological studies in endocrine diseases in children] Kniazev IuA, et al. **Pediatriia** 1989;(11):69–72 (Eng. Abstr.) (Rus)
[Humoral factors in children with diabetes mellitus] Kondrat'eva EI, et al. **Pediatriia** 1989;(11):57–60 (Eng. Abstr.) (Rus)
[Antigens of the HLA system in different types of diabetes mellitus] Berkos AS, et al. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):3–8 (Eng. Abstr.) (Rus)
[The autoimmune aspects of insulin–dependent diabetes mellitus. Immunocorrection trials in the early stages of the disease] Efimov AS, et al. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):85–90 (83 ref.) (Rus)
[An analysis of the interrelationship of the HLA genotype and carbohydrate metabolism in the families of probands with insulin–dependent diabetes mellitus] Molitvoslovova NN, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun; 36(3):11–4 (Eng. Abstr.) (Rus)
[Cellular immunity in patients with insulin–dependent diabetes mellitus studied using the leukocyte migration inhibition reaction] Odintsova ON. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):8–11 (Eng. Abstr.) (Rus)
[Clinico–immunologic aspects of diabetes mellitus] Esenin VI, et al. **Sov Med** 1990;(3):100–1 (Rus)
[The functional activity and count of the natural killer cells in patients with recently diagnosed diabetes mellitus types I and II] Salozhin KV, et al. **Ter Arkh** 1989;61(10):104–6 (Eng. Abstr.) (Rus)
[Quantitative changes of the blood serum immunoglobulins in patients with diabetes mellitus types I and II and microangiopathy detected by morphologic study] Saltykov BB, et al. **Ter Arkh** 1990;62(4):111–4 (Eng. Abstr.) (Rus)
[Immunologic parameters in insulin–dependent diabetes mellitus in children] Strnová J, et al. **Cesk Pediatr** 1990 Jan;45(1):16–7 (Eng. Abstr.) (Slo)
[Thyroid autoimmunity in type I (insulin dependent) diabetes mellitus] Pavía Sesma C, et al. **An Esp Pediatr** 1989 Dec; 31(6):523–7 (33 ref.) (Eng. Abstr.) (Spa)

METABOLISM

The postprandial blood glucose response to sucrose/glucose intake in a mixed snack in diabetic teenagers. Cedermark G, et al. **Acta Paediatr Scand** 1990 Apr;79(4):473–4
Milk composition and volume during the onset of lactation in a diabetic mother. Bitman J, et al. **Am J Clin Nutr** 1989 Dec;50(6):1364–9
Relative carnitine insufficiency in children with type I diabetes mellitus. Winter SC, et al. **Am J Dis Child** 1989 Nov;143(11):1337–9
D–[U–11C]glucose uptake and metabolism in the brain of insulin–dependent diabetic subjects. Gutniak M, et al.

Am J Physiol 1990 May;258(5 Pt 1):E805–12

Effects of insulin on whole body and forearm leucine and KIC metabolism in type 1 diabetes. Tessari P, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):E96–103

A comparison of brain glucose metabolism in diabetes as measured by positron emission tomography or by arteriovenous techniques. Grill V. **Ann Med** 1990 Jun; 22(3):171–6

Changes in muscle glucose metabolism in type 1 diabetes. Koivisto VA, et al. **Ann Med** 1990 Jun;22(3):201–5

Amylin and the amylin gene: structure, function and relationship to islet amyloid and to diabetes mellitus. Cooper GJ, et al. **Biochim Biophys Acta** 1989 Dec 14; 1014(3):247–58 (87 ref.)

Increased thermogenesis in children with type I diabetes [letter; comment] Molnár D, et al. **BMJ** 1989 Oct 7; 299(6704):919 Comment on: **BMJ** 1989 Aug 19;299(6697):487–91.

Glucocorticoid receptors in monocytes in type 1 diabetes mellitus. Damm P, et al. **Clin Chim Acta** 1989 Sep 29; 184(2):167–74

65 zinc absorption in patients with insulin-dependent diabetes mellitus assessed by whole-body counting technique. Kiilerich S, et al. **Clin Chim Acta** 1990 Jul;189(1):13–8

Alterations of purine metabolism in mononuclear cells of individuals at risk of developing type I (insulin-dependent) diabetes mellitus. Schäfer JH, et al. **Clin Chim Acta** 1989 Aug 31;183(3):333–42

The effects of improved blood glucose on growth hormone and cortisol secretion in insulin-dependent diabetes mellitus. Würzburger MI, et al. **Clin Endocrinol (Oxf)** 1990 Jun;32(6):787–97

Total-body potassium in insulin-dependent diabetes mellitus. Goodship TH, et al. **Clin Sci** 1990 Apr;78(4):377–81

Does residual insulin secretion (assessed by C-peptide concentration) affect lipid and lipoprotein levels in insulin-dependent diabetes mellitus? Winocour PH, et al. **Clin Sci** 1989 Oct;77(4):369–74

Elevated muscle tissue oxygen tension in short-term insulin-dependent diabetes mellitus. Krönert K, et al. **Diabete Metab** 1989 Nov-Dec;15(6):376–80

Salivary immunoreactive insulin concentrations are related to plasma free-insulin levels in insulin-treated diabetic patients. Marchetti P, et al. **Diabete Metab** 1990 Jan-Feb; 16(1):16–20

Pilot study on omega-3 fatty acids in type I diabetes mellitus. Landgraf-Leurs MM, et al. **Diabetes** 1990 Mar;39(3):369–75

Liver glycogen accumulation in unstable diabetes. Manderson WG, et al. **Diabetes** 1968 Jan;17(1):13–6

Role of insulin and atrial natriuretic peptide in sodium retention in insulin-treated IDDM patients during isotonic volume expansion. Trevisan R, et al. **Diabetes** 1990 Mar; 39(3):289–98

Stimulation of prostacyclin synthesis by physical exercise in type I diabetes. Koivisto VA, et al. **Diabetes Care** 1989 Oct;12(9):609–14

Insulin response to arginine in puberty [letter] Montaña E, et al. **Diabetes Care** 1990 Apr;13(4):459–60

Cellular alterations in liver, skeletal muscle, and adipose tissue responsible for insulin resistance in obesity and type II diabetes. Caro JF, et al. **Diabetes Metab Rev** 1989 Dec; 5(8):665–89 (92 ref.)

Increased non-enzymatic glycosylation and reduced solubility of skin collagen in insulin-dependent diabetic patients. Salmela PI, et al. **Diabetes Res** 1989 Jul; 11(3):115–20

Modulation of arachidonic acid metabolism has limited effects on the development of type I diabetes in animal models. Schmidt M, et al. **Diabetes Res** 1989 Dec; 12(4):161–4

Increased glucose carbon recycling in severely insulin deficient type 1 (insulin-dependent) diabetic subjects. Benn JJ, et al. **Diabetologia** 1990 Mar;33(3):158–62

Inability to stimulate skeletal muscle or whole body protein synthesis in type 1 (insulin-dependent) diabetic patients by insulin-plus-glucose during amino acid infusion: studies of incorporation and turnover of tracer L-[1-13C]leucine. Bennet WM, et al. **Diabetologia** 1990 Jan;33(1):43–51

Increased hepatic efficacy of urea synthesis from alanine in insulin-dependent diabetes mellitus. Almdal TP, et al. **Eur J Clin Invest** 1990 Feb;20(1):29–34

Salt and glycaemic response in diabetes [letter] Vrr K, et al. **Eur J Clin Nutr** 1989 Sep;43(9):661–2

Cyclosporine pharmacokinetics and effect in the type I diabetic rat model. Brunner LJ, et al. **Eur J Drug Metab Pharmacokinet** 1989 Oct-Dec; 14(4):287–92

Alterations of in vitro interleukin 1 and 2 in diabetic children. Lorini R, et al. **Eur J Pediatr** 1989 Aug;148(8):732–4

Evaluation of metabolic control in type 1 (insulin-dependent) diabetic patients by estimation of serum fructosamine. Gottschling HD, et al. **Exp Clin Endocrinol** 1990 Feb; 95(1):129–36

Insulin-like growth factors in fetal macrosomia with and without maternal diabetes. Hill WC, et al. **Horm Res** 1989; 32(5-6):178–82

Sodium-lithium countertransport in microalbuminuric insulin-dependent diabetic patients. Jones SL, et al. **Hypertension** 1990 Jun;15(6 Pt 1):570–5

Monitoring of diabetes in children. Tan SH. **Indian J Pediatr** 1989 Nov-Dec;56 Suppl 1:S57–62

Abnormal growth hormone responses to hypoglycemia and exercise in adults with type I diabetes. Shilo S, et al. **Isr J Med Sci** 1990 Mar;26(3):136–41

1-anilino-8-naphthalenesulphonate binding parameters in red cell membranes. Does diabetes mellitus affect cell membrane dynamics? Watala C, et al. **J Clin Chem Clin Biochem** 1989 Nov;27(11):839–45

Islet hormonal regulation of glucose turnover during exercise in type 1 diabetes. Shilo S, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):162–72

Improved metabolic control, clinical periodontal status and subgingival microbiology in insulin-dependent diabetes mellitus. A prospective study. Sastrowijoto SH, et al. **J Clin Periodontol** 1990 Apr;17(4):233–42

Smoking and metabolic control in patients with insulin-dependent diabetes mellitus. Lundman BM, et al. **J Intern Med** 1990 Feb;227(2):101–6

Increased lipolytic sensitivity to catecholamines in diabetic patients with severe autonomic neuropathy. Wahrenberg H, et al. **J Intern Med** 1990 May;227(5):309–16

Milk lactose, citrate, and glucose as markers of lactogenesis in normal and diabetic women. Arthur PG, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):488–96

Accumulation of fibronectin in aortas from diabetic patients. A quantitative immunohistochemical and biochemical study. Rasmussen LM, et al. **Lab Invest** 1989 Oct; 61(4):440–6

Nibbling at the cherry [editorial] [see comments] **Lancet** 1990 Jan 27;335(8683):200–1 Comment in: Lancet 1990 Feb 24;335(8687):487.

Long-term metabolic control and diabetic retinopathy [letter] McNally PG, et al. **Lancet** 1989 Nov 18;2(8673):1227

Persistent abnormalities of the metabolism of an oral glucose load in insulin-treated type I diabetics. Benn JJ, et al. **Metabolism** 1989 Nov;38(11):1047–55

Amniotic fluid prolactin in the third trimester of pregnancies complicated by gestational or pregestational diabetes mellitus. Bybee DE, et al. **Metabolism** 1990 Jul;39(7):714–8

Interaction of very-low-density lipoprotein isolated from type I (insulin-dependent) diabetic subjects with human monocyte-derived macrophages. Klein RL, et al. **Metabolism** 1989 Nov;38(11):1108–14

The diuretic and natriuretic action of human atrial natriuretic peptide in humans: lack of effect of exogenous insulin. Vierhapper H, et al. **Metabolism** 1989 Dec;38(12):1170–2

Differential effect of type I and type II diabetes mellitus on antipyrine elimination. Adithan C, et al. **Methods Find Exp Clin Pharmacol** 1989 Dec;11(12):755–8

Partial normalization by dietary cod-liver oil of increased microvascular albumin leakage in patients with insulin-dependent diabetes and albuminuria. Jensen T, et al. **N Engl J Med** 1989 Dec 7;321(23):1572–7

Inhibition of glucose transport by immunoglobulins in type I diabetes mellitus [letter] Kennedy JR. **N Engl J Med** 1990 Aug 2;323(5):348

Transplacental passage of insulin in pregnant women with insulin-dependent diabetes mellitus. Its role in fetal macrosomia [see comments] Menon RK, et al. **N Engl J Med** 1990 Aug 2;323(5):309–15 Comment in: N Engl J Med 1990 Aug 2;323(5):340–2.

A new enzyme-linked immunosorbent assay for urine and serum concentrations of the carboxyterminal domain (NCI) of collagen. IV. Application in type I (insulin-dependent) diabetes. Torffvit O, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):431–9

Metabolic control and amputations among diabetics in primary health care--a population-based intensified programme governed by patient education. Falkenberg M. **Scand J Prim Health Care** 1990 Mar;8(1):25–9

[Insulin receptors in diabetes mellitus] Tankova Ts. **Vutr Boles** 1989;28(6):8–12 (20 ref.) **(Bul)**

[Investigation of the effect of a diet with wheat bran on the metabolic balances of Zn, Cu, Ca and Mg in diabetics] Liu ZQ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec; 28(12):741–4, 769 (Eng. Abstr.) **(Chi)**

[Deficiency in hepatic uptake of glucose in chronic diabetes mellitus] Stalmans W, et al. **Verh K Acad Geneeskd Belg** 1989;51(6):583–600 (Eng. Abstr.) **(Dut)**

[Effect of sodium depletion on the renin-angiotensin-aldosterone system and prostaglandins in patients with insulin-dependent diabetes mellitus] Koev D, et al. **Ann Endocrinol (Paris)** 1989;50(6):508–12 (33 ref.) (Eng. Abstr.) **(Fre)**

[Regulation of glucose metabolism during exercise and after exercise in normal and diabetic subjects] Girard J. **Journ Annu Diabetol Hotel Dieu** 1990;:141–58 (56 ref.) **(Fre)**

[Eating before, during and after physical exercise in normal and diabetic subjects] Jandrain B, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:159–70 (74 ref.) **(Fre)**

[C-peptide assays of the urine and plasma at baseline and under stimulation with glucagon in healthy subjects and diabetics] Sabot O, et al. **Presse Med** 1990 May 5; 19(18):860–3 (Eng. Abstr.) **(Fre)**

[Studies on orocecal transit in diabetes mellitus] Lautenbacher S, et al. **Med Klin** 1990 May 15;85(5):297–301 (Eng. Abstr.) **(Ger)**

[The sialylation rate of apolipoprotein E in insulin-dependent (IDDM) and non-insulin-dependent (NIDDM) diabetes mellitus] Kopitzsch S, et al. **Z Med Lab Diagn** 1990; 31(1):47–52 (Eng. Abstr.) **(Ger)**

[The crevicular fluid in diabetics before and after initial periodontal treatment] Pallassini A, et al. **Minerva Stomatol** 1989 Oct;38(10):1087–93 (Eng. Abstr.) **(Ita)**

[Selected indicators of calcium-phosphate metabolism in patients with diabetes mellitus] Blasiak M, et al. **Endokrynol Pol** 1989;40(5):251–62 (Eng. Abstr.) **(Pol)**

[Hypercalciuria in patients with diabetes mellitus type 1 and 2—studies of its pathogenesis using the oral calcium tolerance test] Gasińska T, et al. **Endokrynol Pol** 1989; 40(3):115–24 (Eng. Abstr.) **(Pol)**

[Acetylation phenotype in diabetes mellitus] Stryjek-Kamińska D, et al. **Pol Arch Med Wewn** 1987 Aug; 78(2):89–96 (Eng. Abstr.) **(Pol)**

[State of insulin receptors and carbohydrate metabolism in children with diabetes mellitus] Vakhrusheva LL, et al. **Pediatriia** 1989;(11):16–8 (Eng. Abstr.) **(Rus)**

[The use of fat and protein metabolic indices in assessing the compensation status of diabetics] Perelygina AA, et al. **Probl Endokrinol (Mosk)** 1989 Sep-Oct;35(5):31–3 (Eng. Abstr.) **(Rus)**

[The effect of various inducers on interferon-synthesizing activity of leukocytes in patients with diabetes mellitus] Olurskaia SV, et al. **Vopr Virusol** 1989 Nov-Dec; 34(6):714–6 (Eng. Abstr.) **(Rus)**

[Diabetes and growth] Gussinyé M, et al. **An Esp Pediatr Supl** 1988 Oct;35:12–5 **(Spa)**

[Metabolism of lipoproteins in diabetes mellitus] Joven J, et al. **Med Clin (Barc)** 1989 Dec 9;93(19):752–5 (84 ref.) **(Spa)**

[Deficiency of prostacyclin stimulating factor in type I diabetes mellitus. Correlation with the duration of the disease] Vergara M, et al. **Med Clin (Barc)** 1990 Apr 7; 94(13):490–3 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Viruses as a triggering factor of type 1 diabetes and genetic markers related to the susceptibility to the virus-associated diabetes. Yoon JW, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S47–58 (65 ref.)

In type 1 diabetes, does a non-cytopathic viral infection of insulin-secreting B-cells initiate the disease process leading to their autoimmune destruction? Foulis AK. **Diabetic Med** 1989 Nov;6(8):666–74 (37 ref.)

A search for the presence of the enteroviral capsid protein VP1 in pancreases of patients with type 1 (insulin-dependent) diabetes and pancreases and hearts of infants who died of coxsackieviral myocarditis. Foulis AK, et al. **Diabetologia** 1990 May;33(5):290–8

Paradoxical lessening of autoimmune processes in non-obese diabetic mice after infection with the diabetogenic variant of encephalomyocarditis virus. Hermitte L, et al. **Eur J Immunol** 1990 Jun;20(6):1297–303

MORTALITY

Insulin-dependent diabetes mellitus mortality. The risk of cigarette smoking [see comments] Moy CS, et al. **Circulation** 1990 Jul;82(1):37–43 Comment in: Circulation 1990 Jul;82(1):299–301.

Blood pressure, proteinuria and their relationship with circulatory mortality: the WHO Multinational Study of Vascular Disease in Diabetics. Fuller JH, et al. **Diabete Metab** 1989;15(5 Pt 2):273–7

Improved survival in patients with diabetic nephropathy. Mathiesen ER, et al. **Diabetologia** 1989 Dec;32(12):884–6

Insulin-dependent diabetes—the prognosis is improving [editorial] Borch-Johnsen K. **Ir Med J** 1990 Mar;83(1):2–3

Two deaths that occurred in insulin dependent diabetic subjects [editorial] Toseland PA. **Med Sci Law** 1990 Jan; 30(1):2

Diabetes mellitus in patients with cystic fibrosis: effect on survival. Reisman J, et al. **Pediatrics** 1990 Sep;86(3):374–7

Mechanisms of excess cardiovascular mortality in diabetes. Keen H, et al. **Postgrad Med J** 1989;65 Suppl 1:S26–9 (25 ref.)

NURSING

[Treatment and nursing care in diabetes type I using an ATOM-235 pump intravenous infusion] Lin YQ, et al. **Chung Hua Hu Li Tsa Chih** 1990 Feb;25(2):61–2 **(Chi)**

PATHOLOGY

Should there be an expanded role for kidney biopsy in the management of patients with type I diabetes? Mauer SM, et al. **Am J Kidney Dis** 1990 Aug;16(2):96–100

Electronmicroscopic observation on chronic cardiopathy in spontaneous diabetic biobreeding rats. Zhou XP, et al. **Chin Med J [Engl]** 1990 May;103(5):359–62

Pathological changes in the vagus nerve in diabetes and chronic alcoholism. Guo YP, et al. **Clin Exp Neurol** 1987; 24:123–7

Glomerular structure and function in diabetic nephropathy. Early to advanced stages. Osterby R, et al. **Diabetes** 1990 Sep;39(9):1057–63

Increased collagen-linked fluorescence in skin of young patients with type I diabetes mellitus. Dominiczak MH, et al. **Diabetes Care** 1990 May;13(5):468–72

A clinical-histological study of individuals with diabetes mellitus and proteinuria. Taft JL, et al. **Diabetic Med** 1990 Mar-Apr;7(3):215–21

Examination of islets in the pancreas biopsy specimens from newly diagnosed type 1 (insulin-dependent) diabetic patients. Hanafusa T, et al. **Diabetologia** 1990 Feb; 33(2):105–11

Diabetic choroidal and iris vasculature scanning electron microscopy findings. Fryczkowski AW, et al. **Int Ophthalmol** 1989 Jul;13(4):269–79

Ultrastructural analysis of the endothelial–pericyte relationship in diabetic cutaneous vessels. Braverman IM, et al. **J Invest Dermatol** 1990 Aug;95(2):147–53

The relationship between glomerular structure and function in insulin-dependent diabetes. Bilous RW. **Nephrologie** 1989;10(4):195–200 (51 ref.)

Successful use of cadaver kidneys from diabetic donors for transplantation. Spees EK, et al. **Transplant Proc** 1990 Apr; 22(2):378–9

[Changes in the small joints, skin and lungs in children and adolescents with insulin-dependent diabetes] Dučić V, et al. **Med Arh** 1989;43(1):3–7 (Eng. Abstr.) **(Ser)**

[Fluorescence angiography in children with type I diabetes mellitus] Juhás T, et al. **Cesk Pediatr** 1989 Jul;44(7):394–6 (Eng. Abstr.) **(Slo)**

PHYSIOPATHOLOGY

Pancreatic polypeptide secretion after insulin infusion and protein meal in juvenile type 1 diabetic subjects. Carrà M, et al. **Acta Diabetol Lat** 1990 Apr–Jun;27(2):165–71

The role of hypertension in the development of nephropathy in type 1 (insulin-dependent) diabetes mellitus. Feldt-Rasmussen B, et al. **Acta Diabetol Lat** 1990 Apr–Jun; 27(2):173–9 (39 ref.)

Hormone–fuel metabolism during exercise of insulin-dependent diabetic patients treated with an artificial B-cell unit. Foss MC, et al. **Acta Diabetol Lat** 1989 Jul–Sep; 26(3):185–94

Relationship between retinal ischemia and cardiovascular autonomic damage in diabetes. Giardullo A, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):245–55

A study of the respiratory function in insulin-dependent diabetic patients with and without limited joint mobility (LJM). Vera M, et al. **Acta Diabetol Lat** 1990 Apr–Jun; 27(2):113–7

Hemodynamic studies during exercise in newly diagnosed, juvenile diabetics. Carlström S, et al. **Acta Med Scand** 1967 Jan;181(6):759–67

Study of visual evoked potentials in diabetics without retinopathy: correlations with clinical findings and polyneuropathy. Mariani E, et al. **Acta Neurol Scand** 1990 Apr;81(4):337–40

Conduction velocity study in type 1 diabetic patients. Meli F, et al. **Acta Neurol Scand** 1989 Nov;80(5):432–7

The effect of short-term near-normal blood glucose control on oscillatory potential and macular recovery time in insulin-dependent diabetic patients with long-standing metabolic dysregulation. Frost-Larsen K, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):405–8

Persisting glomerular hyperfiltration in short-term diabetic children without microalbuminuria. Levy-Marchal C, et al. **Acta Paediatr Scand** 1989 Sep;78(5):712–6

A biased attempt to reconstruct the pathogenic mechanisms leading to destructive endocrine autoimmunity. Bottazzo GF. **Acta Paediatr Scand Suppl** 1989;356:113–8 (34 ref.)

Doppler echocardiographic evaluation of left ventricular diastolic function in adolescents with diabetes mellitus. Riggs TW, et al. **Am J Cardiol** 1990 Apr 1;65(13):899–902

Left ventricular diastolic dysfunction evaluated by Doppler echocardiography in patients with diabetes mellitus. Zoneraich S. **Am J Cardiol** 1989 Nov 1;64(16):1037–8

Infants of diabetic mothers with accelerated fetal growth by ultrasonography: are they all alike? Keller JD, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):893–7

F response characteristics in type I diabetes mellitus. Mysiw WJ, et al. **Am J Phys Med Rehabil** 1990 Jun;69(3):112–6

Myocardial metabolism in insulin-deficient diabetic humans without coronary artery disease. Avogaro A, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E606–18

Impaired renal response to a meat meal in insulin-dependent diabetes: role of glucagon and prostaglandins. Fioretto P, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):F675–83

Cerebral blood flow and substrate utilization in insulin-treated diabetic subjects. Grill V, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E813–20

Limited joint mobility in children and adolescents with insulin dependent diabetes mellitus. Clarke CF, et al. **Ann Rheum Dis** 1990 Apr;49(4):236–7

Early complications of diabetes mellitus [letter; comment] **Arch Dis Child** 1990 Feb;65(2):247 Comment on: Arch Dis Child 1989 Jul;64(7):984–91.

Absence of effect of dipyridamole on renal and platelet function in diabetes mellitus. Gibb DM, et al. **Arch Dis Child** 1990 Jan;65(1):93–8

Association between diabetes, severe hypoglycaemia, and electroencephalographic abnormalities. Solitész G, et al. **Arch Dis Child** 1989 Jul;64(7):992–6

Electrophysiological changes in juvenile diabetics without retinopathy. Juen S, et al. **Arch Ophthalmol** 1990 Mar; 108(3):372–5

Energy expenditure in children with type I diabetes: evidence for increased thermogenesis [see comments] Müller MJ, et al. **BMJ** 1989 Aug 19;299(6697):487–91 Comment in: BMJ 1989 Oct 7;299(6704):919.

Bone mass in young patients with type I diabetes. Weber G, et al. **Bone Miner** 1990 Jan;8(1):23–30

Macular recovery function (nyctometry) in diabetics without and with early retinopathy. Midena E, et al. **Br J Ophthalmol** 1990 Feb;74(2):106–8

Renal transplantation and diabetic autonomic neuropathy. Thomas AN, et al. **Can J Anaesth** 1989 Sep;36(5):590–2

Left ventricular diastolic dysfunction in type 1 (insulin-dependent) diabetic patients during dynamic exercise. Jermendy G, et al. **Cardiology** 1990;77(1):9–16

Visual evoked responses in diabetes. Millingen KS, et al. **Clin Exp Neurol** 1987;24:153–8

Non-invasive tests of neurovascular function. Westerman RA, et al. **Clin Exp Neurol** 1987;24:129–37

Arthrodesis of the diabetic neuropathic ankle joint. Stuart MJ, et al. **Clin Orthop** 1990 Apr;(253):209–11

Vasopressin secretion in diabetic subjects with and without autonomic neuropathy: responses to osmotic and postural stimulation. Reid W, et al. **Clin Sci** 1989 Dec;77(6):589–97

Charge-dependent filtration properties of glomerular basement membrane. Feldt-Rasmussen B, et al. **Contrib Nephrol** 1989;73:45–9; discussion 50–1 (27 ref.)

Autonomic neuropathy in diabetic nephropathy. Effect of regular dialysis treatment and simultaneous transplantation of kidney and pancreas. Heidbreder E, et al. **Contrib Nephrol** 1989;73:112–25; discussion 126

New concepts in the pathogenesis of insulin-dependent diabetes mellitus. Mandrup-Poulsen T, et al. **Contrib Nephrol** 1989;73:1–14; discussion 14–5 (65 ref.)

Long term reduction of microalbuminuria after 1 year of angiotensin converting enzyme inhibition by perindopril in hypertensive insulin-treated diabetic patients. Brichard SM, et al. **Diabete Metab** 1990 Jan–Feb;16(1):30–6

Elevated blood pressure predicts the development of persistent proteinuria in the presence of poor glycemic control, in patients with type I diabetes. Derby L, et al. **Diabete Metab** 1989;15(5 Pt 2):320–6

Role of angiotensin and aldosterone in the pathogenesis of hypertension in insulin-dependent diabetes mellitus? Feldt-Rasmussen B, et al. **Diabete Metab** 1989;15(5 Pt 2):311–2 (17 ref.)

Impact of hypertension on prognosis in IDDM. Hasslacher C, et al. **Diabete Metab** 1989;15(5 Pt 2):338–42 (9 ref.)

Impact of blood pressure on diabetic retinopathy. Janka HU, et al. **Diabete Metab** 1989;15(5 Pt 2):333–7 (27 ref.)

Hypertension and microalbuminuria as predictors of diabetic nephropathy. Jones SL, et al. **Diabete Metab** 1989;15(5 Pt 2):327–32

Blood pressure and microvascular complications in type 1 (insulin dependent) diabetic patients without hypertension. Le Floch JP, et al. **Diabete Metab** 1990 Jan–Feb;16(1):26–9

The effect of blood pressure intervention on renal function in insulin-dependent diabetes. Mogensen CE. **Diabete Metab** 1989;15(5 Pt 2):343–51

Response of pancreatic polypeptide to a protein rich meal in diabetic autonomic neuropathy. Weil R, et al. **Diabete Metab** 1989 Jul–Aug;15(4):163–9

Comparison of high- and low-diabetes-incidence NOD mouse strains. Baxter AG, et al. **Diabetes** 1989 Oct; 38(10):1296–300

Nonprogression of subclinical beta-cell dysfunction among first-degree relatives of IDDM patients. 5-yr follow-up of the Seattle Family Study. McCulloch DK, et al. **Diabetes** 1990 May;39(5):549–56

Prediction of clinical diabetic nephropathy in IDDM patients. Alternatives to microalbuminuria? Mogensen CE. **Diabetes** 1990 Jul;39(7):761–7 (58 ref.)

Juvenile diabetes mellitus, a deficiency in insulin. Parker ML, et al. **Diabetes** 1968 Jan;17(1):27–32

Life-table analysis of progression to diabetes of anti-insulin autoantibody-positive relatives of individuals with type I diabetes. Ziegler AG, et al. **Diabetes** 1989 Oct; 38(10):1320–5

Autonomic influence on pregnancy outcome in IDDM. Airaksinen KE, et al. **Diabetes Care** 1990 Jul;13(7):756–61

Measurement by single injection of polyfructosan of glomerular filtration rate in young diabetic patients [letter] Bognetti E, et al. **Diabetes Care** 1990 Jul;13(7):816–7

Evidence for early impairment of macular function with pattern ERG in type I diabetic patients. Caputo S, et al. **Diabetes Care** 1990 Apr;13(4):412–8

Meal-related insulin supply in IDDM [letter] Chantelau E. **Diabetes Care** 1990 Jul;13(7):818

Hypoglycemia risk during exercise after intramuscular injection of insulin in thigh in IDDM. Frid A, et al. **Diabetes Care** 1990 May;13(5):473–7

Corrected Q-T interval prolongation as diagnostic tool for assessment of cardiac autonomic neuropathy in diabetes mellitus. Gonin JM, et al. **Diabetes Care** 1990 Jan; 13(1):68–71

Arterial blood pressure related to degree of albuminuria and low-molecular-weight proteinuria in IDDM. Holm J, et al. **Diabetes Care** 1990 Apr;13(4):443–6

Effect of pregnancy on progression of diabetic retinopathy. Klein BE, et al. **Diabetes Care** 1990 Jan;13(1):34–40

Contribution of diabetes duration before puberty to development of microvascular complications in IDDM subjects. Kostraba JN, et al. **Diabetes Care** 1989 Nov–Dec; 12(10):686–93

Factors associated with avoidance of severe complications after 25 yr of IDDM. Pittsburgh Epidemiology of Diabetes Complications Study I. Orchard TJ, et al. **Diabetes Care** 1990 Jul;13(7):741–7

Mapping diabetic sensory neuropathy by current perception threshold testing. Rendell MS, et al. **Diabetes Care** 1989 Oct;12(9):636–40

Intracerebral crises during treatment of diabetic ketoacidosis. Rosenbloom AL. **Diabetes Care** 1990 Jan;13(1):22–33

Sperm function and structure and seminal plasma prostanoid concentrations in men with IDDM. Shrivastav P, et al. **Diabetes Care** 1989 Nov–Dec;12(10):742–4

Gestational diabetes and risk of developing IDDM [letter; comment] Weitzman S, et al. **Diabetes Care** 1990 Feb; 13(2):186 Comment on: Diabetes Care 1989 Jun;12(6):438–40.

Low-pigment skin type and predisposition for development of type I diabetes. Ziegler AG, et al. **Diabetes Care** 1990 May;13(5):529–31

The pupillary light reflex in diabetes mellitus: evaluation of a newly developed infrared light reflection method. de Vos A, et al. **Diabetes Res** 1989 Apr;10(4):191–5

Efficacy of endogenous creatinine clearance in diabetic patients. Eriksson CG, et al. **Diabetes Res** 1989 Dec; 12(4):183–7

Effect of nifedipine on renin-angiotensin-aldosterone system and renal prostaglandins in diabetic patients. Koev D, et al. **Diabetes Res** 1989 Oct;12(2):63–5

Impaired sweating in the diabetic neuropathic foot and its influence on skin flora. Newrick PG, et al. **Diabetes Res** 1989 Dec;12(4):173–6

Tubular Na+ handling in type I insulin-dependent diabetics during saline and ketone body infusion. Semplicini A, et al. **Diabetes Res** 1989 Jun;11(2):67–72

Oesophageal transit time and cardiovascular autonomic neuropathy in type 1 (insulin-dependent) diabetes mellitus. Vannini P, et al. **Diabetes Res** 1989 May;11(1):21–5

Renal haemodynamics during short-term angiotensin converting enzyme inhibition in normotensive normoalbuminuric insulin dependent diabetics. Vora JP, et al. **Diabetes Res** 1989 May;11(1):9–12

Early alterations of renal function in insulin-dependent diabetic pregnancies and their importance in predicting pre-eclamptic toxaemia. Winocour PH, et al. **Diabetes Res** 1989 Apr;10(4):159–64

Cardiac function and sympathetic activity in young diabetics. Ferraro S, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):91–9

The prevalence of micro-albuminuria and glomerular hyperfiltration in young patients with IDDM. Kalk WJ, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):145–53

Juvenile Diabetes Foundation Diabetic Nephropathy Workshop, Minneapolis, 1989. Bilous RW. **Diabetic Med** 1990 Feb;7(2):181–2 (0 ref.)

QT prolongation on the electrocardiogram in diabetic autonomic neuropathy. Chambers JB, et al. **Diabetic Med** 1990 Feb;7(2):105–10

Pupillary size in children and adolescents with type 1 diabetes. Clarke CF, et al. **Diabetic Med** 1989 Dec; 6(9):780–3

Non-invasive evaluation of cardiac function in young patients with type 1 diabetes. Fisher BM, et al. **Diabetic Med** 1989 Nov;6(8):677–81

Postprandial hyperglycaemia following a morning hypoglycaemia in type 1 diabetes mellitus. Fowelin J, et al. **Diabetic Med** 1990 Feb;7(2):156–61

Respiratory muscle performance in patients with type 1 diabetes. Heimer D, et al. **Diabetic Med** 1990 Jun;7(5):434–7

Blood glucose control determines the renal haemodynamic response to angiotensin converting enzyme inhibition in type 1 diabetes. Jenkins DA, et al. **Diabetic Med** 1990 Mar–Apr;7(3):252–7

Factors related to the electric taste threshold in type 1 diabetic patients. Le Floch JP, et al. **Diabetic Med** 1990 Jul;7(6):526–31

Heart rate variability during hypoglycaemia. Malpas SC, et al. **Diabetic Med** 1989 Dec;6(9):822–3

Acute effects of a somatostatin analogue on kidney function in type 1 diabetic patients. Pedersen MM, et al. **Diabetic Med** 1990 May;7(4):304–9

Intraventricular septal hypertrophy in type 1 diabetic patients with microalbuminuria or early proteinuria. Sampson MJ, et al. **Diabetic Med** 1990 Feb;7(2):126–31

Effect of phase of menstrual cycle on insulin sensitivity, peripheral blood flow and cardiovascular responses to hyperinsulinaemia in young women with type 1 diabetes. Scott AR, et al. **Diabetic Med** 1990 Jan;7(1):57–62

Myogenic microvascular responses are impaired in long-duration type 1 diabetes. Walmsley D, et al. **Diabetic Med** 1990 Mar–Apr;7(3):222–7

Lessons from the NOD mouse for the pathogenesis and immunotherapy of human type 1 (insulin-dependent) diabetes mellitus. Lampeter EF, et al. **Diabetologia** 1989 Oct;32(10):703–8 (57 ref.)

Increased aortic stiffness in patients with type 1 (insulin-dependent) diabetes mellitus. Oxlund H, et al. **Diabetologia** 1989 Oct;32(10):748–52

Nocturnal spikes of growth hormone secretion cause the dawn phenomenon in type 1 (insulin-dependent) diabetes mellitus by decreasing hepatic (and extrahepatic) sensitivity to insulin in the absence of insulin waning. Perriello G, et al. **Diabetologia** 1990 Jan;33(1):52–9

Kidney function in newly diagnosed type 2 (non-insulin-dependent) diabetic patients, before and during treatment. Schmitz A, et al. **Diabetologia** 1989 Jul; 32(7):434–9

The activity of the renin-angiotensin-aldosterone system

before and during submaximal bicycle exercise in relation to circulatory catecholamines in patients with type 1 (insulin-dependent) diabetes mellitus. Sundkvist G, et al. **Diabetologia** 1990 Mar;33(3):148–51

Neurophysiological changes during insulin-induced hypoglycaemia and in the recovery period following glucose infusion in type 1 (insulin-dependent) diabetes mellitus and in normal man. Tallroth G, et al. **Diabetologia** 1990 May;33(5):319–23

Reduced hyperaemia following skin trauma: evidence for an impaired microvascular response to injury in the diabetic foot. Walmsley D, et al. **Diabetologia** 1989 Oct;32(10):736–9

Permanent neuropsychological impairment after recurrent episodes of severe hypoglycaemia in man. Wredling R, et al. **Diabetologia** 1990 Mar;33(3):152–7

Gastrointestinal transit disorders in patients with insulin-treated diabetes mellitus. Wegener M, et al. **Dig Dis** 1990;8(1):23–36

Steady-state pattern electroretinogram in insulin-dependent diabetics with no or minimal retinopathy. Falsini B, et al. **Doc Ophthalmol** 1989 Oct;73(2):193–200

Threshold tracking provides a rapid indication of ischaemic resistance in motor axons of diabetic subjects. Weigl P, et al. **Electroencephalogr Clin Neurophysiol** 1989 Oct; 73(4):369–71

Renal haemodynamic changes in response to moderate hyperglycaemia in type 1 (insulin-dependent) diabetes mellitus. Dullaart RP, et al. **Eur J Clin Invest** 1990 Apr; 20(2):208–13

Gonadotropin stimulation for in vitro fertilization and embryo transfer in insulin-dependent diabetics: follicular response, oocyte quality, embryo development, and follicular environment. Oehninger S, et al. **Fertil Steril** 1990 Apr;53(4):741–3

Unawareness of hypoglycemia by insulin-dependent diabetics. Grimaldi A, et al. **Horm Metab Res** 1990 Feb; 22(2):90–5

Arginine vasopressin response to insulin-induced hypoglycemia in insulin-dependent diabetics with asymptomatic hypoglycemia. Wolf JP, et al. **Horm Metab Res** 1990 Apr;22(4):232–6

Capillary filtration and lymphatic resorption in diabetes. Application to the pharmacodynamic activity of Daflon 500 mg. Behar A, et al. **Int Angiol** 1989 Oct–Dec;8(4 Suppl):27–9

Effect of long-acting somatostatin analog (SMS 201-995) on high glomerular filtration rate in insulin dependent diabetic patients. Krempf M, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jul;28(7):309–11

Corneal epithelial barrier function after oxybuprocaine provocation in diabetics. Stolwijk TR, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):436–9

Myocardial mechanics in young adult patients with diabetes mellitus: effects of altered load, inotropic state and dynamic exercise. Borow KM, et al. **J Am Coll Cardiol** 1990 Jun; 15(7):1508–17

A modified protocol for estimation of insulin sensitivity with the minimal model of glucose kinetics in patients with insulin-dependent diabetes. Finegood DT, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1538–49

Reversal of beta-cell suppression in vitro in pancreatic islets isolated from nonobese diabetic mice during the phase preceding insulin-dependent diabetes mellitus. Strandell E, et al. **J Clin Invest** 1990 Jun;85(6):1944–50

Natural history of hypertension and kidney disease in diabetes. Christiansen JS. **J Hypertens Suppl** 1990 Mar; 8(1):S37–9; discussion S39–40 (23 ref.)

Nasal mucociliary clearance in patients with diabetes mellitus. Yue WL. **J Laryngol Otol** 1989 Sep;103(9):853–5

Autonomic and somatic peripheral nerve function and the correlation with neuropathic pain in diabetic patients. Lanting P, et al. **J Neurol Sci** 1989 Dec;94(1–3):307–17

Mild hypoglycemia associated with deterioration of mental efficiency in children with insulin-dependent diabetes mellitus. Ryan CM, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):32–8

Renal hemodynamics and segmental tubular reabsorption in early type 1 diabetes. Hannedouche TP, et al. **Kidney Int** 1990 Apr;37(4):1126–33

Renal effects from limitation of high dietary protein in normoalbuminuric diabetic patients. Pedersen MM, et al. **Kidney Int Suppl** 1989 Nov;27:S115–21

Heart rate variability in diabetic patients during orthostatic load—a spectral analytic approach. Weise F, et al. **Klin Wochenschr** 1990 Jan 4;68(1):26–32

Reduced sensitivity to pirenzepine-induced blockade of growth hormone responses to arginine, exercise, and growth hormone-releasing hormone in type I diabetic subjects. Coiro V, et al. **Metabolism** 1990 Jul;39(7):668–75

Characterization of the late posthypoglycemic insulin resistance in insulin-dependent diabetes mellitus. Fowelin J, et al. **Metabolism** 1990 Aug;39(8):823–6

Relationships among islet cell antibodies, residual beta-cell function, and metabolic control in patients with insulin-dependent diabetes mellitus of long duration: use of a sensitive C-peptide radioimmunoassay. Nakanishi K, et al. **Metabolism** 1990 Sep;39(9):925–30

Different localization of early arterial lesions in insulin-dependent diabetes mellitus and in familial hypercholesterolemia. Rubba P, et al. **Metabolism** 1989 Oct; 38(10):962–6

Diabetic nephropathy—are there differences between type I and type II? Ritz E, et al. **Miner Electrolyte Metab** 1990; 16(1):69–72 (16 ref.)

Increase in glomerular filtration rate in patients with insulin-dependent diabetes and elevated erythrocyte sodium–lithium countertransport. Carr S, et al. **N Engl J Med** 1990 Feb 22;322(8):500–5

Changing concepts of the pathogenesis of diabetic nephropathy. Wilion F, et al. **N Y State J Med** 1990 Apr; 90(4):185–9 (30 ref.)

Renal haemodynamic effects of short term cyclosporin A administration in patients with insulin-dependent diabetes mellitus. Hannedouche T, et al. **Nephrol Dial Transplant** 1990;5(3):168–73

Acute changes in blood glucose affect resistance to ischemic nerve conduction failure. Parry GJ, et al. **Neurology** 1990 Jan;40(1):107–10

Blood pressure and retinopathy in type I diabetes. Chase HP, et al. **Ophthalmology** 1990 Feb;97(2):155–9

Macular blood flow response to acute reduction of plasma glucose in diabetic patients measured by the blue light entoptic technique. Davies EG, et al. **Ophthalmology** 1990 Feb;97(2):160–4

Hypothalamic-pituitary-adrenal axis dysregulation among diabetic outpatients. Roy M, et al. **Psychiatry Res** 1990 Jan;31(1):31–7

Pathophysiology of insulin secretion in diabetes. Waldhäusl W. **Recenti Prog Med** 1990 Feb;81(2):67–71 (32 ref.)

Effects of exercise on glomerular passage of macromolecules in patients with diabetic nephropathy and in healthy subjects. Ala-Houhala I. **Scand J Clin Lab Invest** 1990 Feb; 50(1):27–33

The increased proximal tubular reabsorption of sodium and water is maintained in long-term insulin-dependent diabetics with early nephropathy. Skøtt P, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):419–25

Diabetic gastroparesis. Varis K. **Scand J Gastroenterol** 1989 Oct;24(8):897–903 (68 ref.)

Diabetes, erectile dysfunction, and sleep-related erections. Hirshkowitz M, et al. **Sleep** 1990 Feb;13(1):53–68

A different clinical course of IDDM patients after simultaneous pancreas and kidney transplantation and kidney grafting alone. Abendroth D, et al. **Transplant Proc** 1990 Aug;22(4):1579

Gallbladder emptying in diabetic patients and control subjects assessed by real-time ultrasonography and cholescintigraphy: a methodological comparison. Krönert K, et al. **Ultrasound Med Biol** 1989;15(6):535–9

Cutaneous reactive hyperemia in short-term and long-term type I diabetes—continuous monitoring by a combined laser Doppler and transcutaneous oxygen probe. Franzeck UK, et al. **Vasa** 1990;19(1):8–15

[Symptoms, frequency and severity of hypoglycemia: differences between human and animal insulin? (published erratum appears in Ned Tijdschr Geneeskd 1990 Jun 16;134(24):1200)] Heine RJ. **Ned Tijdschr Geneeskd** 1990 Apr 21;134(16):796–9 (Dut)

[Physical properties of the aorta in normotensive insulin-dependent diabetic subjects. Study using Doppler echocardiography] Paillole C, et al. **Arch Mal Coeur** 1989 Jul;82(7):1185–9 (Eng. Abstr.) (Fre)

[Doppler sonography findings in maternal diabetes in relation to metabolic control] Hütter W, et al. **Gynakol Rundsch** 1989;29 Suppl 2:448–50 (Ger)

[Characteristics of lung function in patients with type I diabetes mellitus] Discher T, et al. **Pneumologie** 1990 Feb; 44 Suppl 1:538–9 (Eng. Abstr.) (Ger)

[Left ventricular function in young type I diabetic patients. A Doppler echocardiography study] Juhasz M, et al. **Wien Klin Wochenschr** 1990 Feb 2;102(3):70–4 (Eng. Abstr.) (Ger)

[Effect of puberty on the development of diabetic microangiopathy] Vincze P, et al. **Orv Hetil** 1990 Jan 14; 131(2):55–8 (Eng. Abstr.) (Hun)

[The growth hormone/somatomedin C system from the first years of life to young adulthood. Physiological aspects and physiopathologic involvement in diabetic syndrome] Bertoldi C, et al. **Minerva Endocrinol** 1989 Oct–Dec; 14(4):233–49 (104 ref.) (Eng. Abstr.) (Ita)

[Echocardiographic assessment of left ventricular function in patients with early type I diabetes] Koprowski A, et al. **Kardiol Pol** 1989;32(10–12):453–8 (Eng. Abstr.) (Pol)

[Echocardiographic studies and electrocardiographic examination by the Holter method of patients with insulin-dependent diabetes mellitus] Piszczek I, et al. **Kardiol Pol** 1989;32(5):241–7 (Eng. Abstr.) (Pol)

[Autonomic regulation of the circulatory system in early type I diabetes] Rynkiewicz A, et al. **Kardiol Pol** 1989; 32(10–12):459–65 (Eng. Abstr.) (Pol)

[Effects of isometric exercise on left ventricular function assessed with polycardiography in patients with early type I diabetes] Rynkiewicz A, et al. **Kardiol Pol** 1989; 32(10–12):446–52 (Eng. Abstr.) (Pol)

[Color vision in patients with juvenile onset diabetes mellitus] Gerkowicz M. **Klin Oczna** 1989 Jul–Sep;91(7–9):194 (Eng. Abstr.) (Pol)

[Diagnostic value of electrophysiologic studies in diabetics in our experience] Palacz O, et al. **Klin Oczna** 1989 Jul–Sep; 91(7–9):191–3 (Eng. Abstr.) (Pol)

[Immunologic phenomena in patients with proliferative retinopathy in diabetes mellitus type 1] Pawińska M, et al. **Pol Arch Med Wewn** 1989 Apr;81(4):240–6 (Eng. Abstr.) (Pol)

[Nature and mechanism of hemodynamic changes in fetuses of mothers with various types of diabetes mellitus] Badalian SS. **Akush Ginekol (Mosk)** 1989 Sep;(9):39–42 (Eng. Abstr.) (Rus)

[Relation between the functions of fetal kidneys and the course of diabetes mellitus in pregnancy] Pavlova NG. **Akush Ginekol (Mosk)** 1990 May;(5):70–1 (Rus)

[Characteristics of the U wave on the electrocardiogram of patients with diabetes mellitus type 1 without clinical signs of cardiac damage] Vaitkus EA, et al. **Kardiologiia** 1990 Mar;30(3):68–71 (Eng. Abstr.) (Rus)

[Complex assessment of sexual development of pubertal girls with diabetes mellitus] Rakhimova RIu. **Pediatriia** 1990; (6):12–5 (Eng. Abstr.) (Rus)

[The use of the antipyrine test in assessing liver function in patients with insulin-dependent diabetes mellitus] Khanina EV, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun; 36(3):14–5 (Eng. Abstr.) (Rus)

[The myocardial contractile function and central hemodynamics of patients with insulin-dependent diabetes mellitus during treatment] Kolomoĭskaia MB, et al. **Probl Endokrinol (Mosk)** 1989 Jul–Aug;35(4):12–5 (Eng. Abstr.) (Rus)

[The mechanisms of a decreased tolerance for graduated physical loading in young patients suffering from diabetes mellitus] Solun MN, et al. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):20–4 (Eng. Abstr.) (Rus)

[The functional kidney reserves of diabetics] Mukhin NA, et al. **Ter Arkh** 1990;62(2):107–10 (Eng. Abstr.) (Rus)

[The function of the closure apparatus of the bladder in retrograde ejaculation in diabetics] Ibragimov AZ, et al. **Urol Nefrol (Mosk)** 1990 May–Jun;(3):65–8 (Eng. Abstr.) (Rus)

[Diseases of the kidney in children and adolescents with insulin-dependent diabetes mellitus] Dučić V, et al. **Acta Med Iugosl** 1989;43(4):265–74 (Eng. Abstr.) (Ser)

[Course of peripheral diabetic neuropathy depending on the metabolic control after 6 months of follow-up] Pérez-Lázaro A, et al. **Med Clin (Barc)** 1990 May 12; 94(18):693–6 (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

Prevention of cyclophosphamide-induced diabetes by anti-V beta 8 T-lymphocyte-receptor monoclonal antibody therapy in NOD/Wehi mice. Bacelj A, et al. **Diabetes** 1989 Nov;38(11):1492–5

Prevention of type I diabetes in NOD mice by adjuvant immunotherapy. Sadelain MW, et al. **Diabetes** 1990 May; 39(5):583–9

Cyclosporin therapy for prevention and cure of IDDM. Epidemiological perspective of benefits and risks [see comments] Lipton R, et al. **Diabetes Care** 1990 Jul; 13(7):776–84 (39 ref.) Comment in: Diabetes Care 1990 Jul;13(7):806–8.

Interleukin-2-dependent control of disease development in spontaneously diabetic BB rats. Zielasek J, et al. **Immunology** 1990 Feb;69(2):209–14

The effect of ciamexone on lymphocytic thyroiditis and insulin-dependent diabetes mellitus in the BB/Wor rat. Abend S, et al. **Immunopharmacology** 1990 May–Jun; 19(3):163–8

Pilot trial to prevent type I diabetes: progression to overt IDDM despite oral nicotinamide. Herskowitz RD, et al. **J Autoimmun** 1989 Oct;2(5):733–7

Immunostimulation circumvents diabetes in NOD/Lt mice. Serreze DV, et al. **J Autoimmun** 1989 Dec;2(6):759–76

Viruses as therapeutic agents. II. Viral reassortants map prevention of insulin-dependent diabetes mellitus to the small RNA of lymphocytic choriomeningitis virus. Oldstone MB, et al. **J Exp Med** 1990 Jun 1;171(6):2091–100

Viruses as therapeutic agents. I. Treatment of nonobese insulin-dependent diabetes mice with virus prevents insulin-dependent diabetes mellitus while maintaining general immune competence. Oldstone MB. **J Exp Med** 1990 Jun 1;171(6):2077–89

Inhibition of type 1 diabetes in BB rats with recombinant human tumor necrosis factor-alpha. Satoh J, et al. **J Immunol** 1990 Sep 1;145(5):1395–9

Mechanism of action of a streptococcal preparation (OK-432) in prevention of autoimmune diabetes in NOD mice. Suppression of generation of effector cells for pancreatic B cell destruction. Shintani S, et al. **J Immunol** 1990 Jan 1;144(1):136–41

Prevention of diabetes mellitus in BB rats by neonatal stimulation of beta cells. Buschard K, et al. **Lancet** 1990 Jan 20;335(8682):134–5

Prevention of diabetes in BB/Wor rats treated with monoclonal antibodies to interferon-gamma [letter] Nicoletti F, et al. **Lancet** 1990 Aug 4;336(8710):319

Insulin-dependent diabetes mellitus—recent developments [editorial] Omar MA, et al. **S Afr Med J** 1990 Aug 18; 78(4):178–9

PSYCHOLOGY

Restoration of perception of hypoglycaemia after hemiparesis in an insulin dependent diabetic patient. Pell AC, et al. **BMJ** 1990 Feb 10;300(6721):369–70

Cognitive function in diabetes mellitus: the effects of duration of illness and glycaemic control. Prescott JH, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):167–75

Abnormal eating attitudes in young insulin-dependent

diabetics. Steel JM, et al. **Br J Psychiatry** 1989 Oct; 155:515–21

Psychological characteristics of adults with IDDM. Comparison of patients in poor and good glycemic control. Jacobson AM, et al. **Diabetes Care** 1990 Apr;13(4):375–81

Binge eating and purging in young women with IDDM. Stancin T, et al. **Diabetes Care** 1989 Oct;12(9):601–3

Vocational adjustment and general well-being of young adults with IDDM. Tebbi CK, et al. **Diabetes Care** 1990 Feb;13(2):98–103

Adjustment to diabetes mellitus in preschoolers and their mothers [letter; comment] Tynan WD. **Diabetes Care** 1990 Apr;13(4):456–7 Comment on: Diabetes Care 1989 Sep;12(8):524–9.

The relationship of family dynamics/social support to patient functioning in IDDM patients on intensive insulin therapy. Mengel MB, et al. **Diabetes Res Clin Pract** 1990 May–Jun; 9(2):149–62

Denial and diabetes. Nelki JS, et al. **Diabetic Med** 1990 Jul; 7(6):556–7

Hyperventilation or hypoglycaemia? Steel JM, et al. **Diabetic Med** 1989 Dec;6(9):820–1

Knowledge about diabetes in type 1 patients is related to metabolic control. Surawy C. **Diabetic Med** 1989 Dec; 6(9):784–6

Sickness absence among insulin-treated diabetic employees. Waclawski ER. **Diabetic Med** 1990 Jan;7(1):41–4

Changes in food choices of recently diagnosed insulin-dependent diabetic patients. Niewind AC, et al. **Eur J Clin Nutr** 1990 Jul;44(7):505–13

Changes in cognitive and social functioning of diabetic patients following initiation of insulin infusion therapy. Connis RT, et al. **Exp Aging Res** 1989 Spring–Summer; 15(1–2):51–60

Adherence in childhood diabetes: results of a confirmatory factor analysis. Johnson SB, et al. **Health Psychol** 1990; 9(4):493–501

Cognitive and behavioral determinants of compliance in diabetics. Amir S, et al. **Health Soc Work** 1990 May; 15(2):144–51

Risk factors to health in diabetic children: a prospective study from diagnosis. Auslander WF, et al. **Health Soc Work** 1990 May;15(2):133–42

Psycho-social aspects of children and adolescents with diabetes. Laron Z, et al. **Indian J Pediatr** 1989 Nov–Dec; 56 Suppl 1:S129–32

Emotional behaviors in chronically ill children. Nelms BC. **J Abnorm Child Psychol** 1989 Dec;17(6):657–68

Health locus of control and glycosylated haemoglobin concentration of implantable insulin pump recipients in Austria. Meize-Grochowski AR. **J Adv Nurs** 1990 Jul; 15(7):804–7

Coping styles in youths with insulin-dependent diabetes mellitus. Hanson CL, et al. **J Consult Clin Psychol** 1989 Oct;57(5):644–51

Psychological functioning among mothers of children with insulin-dependent diabetes mellitus: a longitudinal study. Kovacs M, et al. **J Consult Clin Psychol** 1990 Apr; 58(2):189–95

Children's coping with diabetes: understanding the role of cognitive development. Band EB. **J Pediatr Psychol** 1990 Feb;15(1):27–41

Psychological and physiological responses to acute laboratory stressors in insulin-dependent diabetes mellitus adolescents and nondiabetic controls. Gilbert BO, et al. **J Pediatr Psychol** 1989 Dec;14(4):577–91

Diabetes self-care goals and their relation to children's metabolic control. Karoly P, et al. **J Pediatr Psychol** 1990 Feb;15(1):83–95

The role of maternal employment and depression in the psychological adjustment of chronically ill, mentally retarded, and well children. Walker LS, et al. **J Pediatr Psychol** 1989 Sep;14(3):357–70

Quality of life in non-insulin-dependent diabetes and a comparison with insulin-dependent diabetes. Mayou R, et al. **J Psychosom Res** 1990;34(1):1–11

Changes in eating attitudes during the first year of treatment for diabetes. Steel JM, et al. **J Psychosom Res** 1990; 34(3):313–8

The patient/physician relationship in the management of diabetes mellitus. Bryant LH, et al. **J S C Med Assoc** 1990 Jul;86(7):389–91

Sexuality and psychophysiological functioning in women with diabetes mellitus. Slob AK, et al. **J Sex Marital Ther** 1990 Summer;16(2):59–69

Living with diabetes: perceptions of well-being. Lundman B, et al. **Res Nurs Health** 1990 Aug;13(4):255–62

[Perceived child rearing behavior by juvenile diabetics at the time of puberty] Winiak UV, et al. **Prax Kinderpsychol Kinderpsychiatr** 1989 Dec;38(10):354–7 (Eng. Abstr.) **(Ger)**

[Compliance of children and adolescents with type 1 diabetes (juvenile diabetes mellitus)] Deak D, et al. **Psychother Psychosom Med Psychol** 1989 Nov; 39(11):404–10 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Nephrotoxicity of contrast media in patients with diabetes mellitus. A comparative urographic and angiographic study with iohexol and metrizoate. Billström A, et al. **Acta Radiol** 1989 Sep–Oct;30(5):509–15

[The clinical x-ray characteristics of the soft tissues of the lower extremities in diabetics] Gorelysheva VA, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):15–20 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Perfusion thallium imaging of type I diabetes patients with end stage renal disease: comparison of oral and intravenous dipyridamole administration. Boudreau RJ, et al. **Radiology** 1990 Apr;175(1):103–5

RADIOTHERAPY

[Remission of newly manifested type I diabetes by irradiation of the pancreas] Neumeister K, et al. **Radiobiol Radiother (Berl)** 1989;30(4):384–5 **(Ger)**

REHABILITATION

Do education groups help diabetics and their parents? Hackett AF, et al. **Arch Dis Child** 1989 Jul;64(7):997–1003

Cardiovascular conditioning in individuals with diabetic retinopathy. Bernbaum M, et al. **Diabetes Care** 1989 Nov–Dec;12(10):740–2

Randomized prospective study of self-management training with newly diagnosed diabetic children [published erratum appears in Diabetes Care 1990 Jul;13(7):819] Delamater AM, et al. **Diabetes Care** 1990 May;13(5):492–8

Effect of once-a-week training program on physical fitness and metabolic control in children with IDDM. Huttunen NP, et al. **Diabetes Care** 1989 Nov–Dec;12(10):737–40

Survey of diabetes professionals regarding developmental changes in diabetes self-care. Wysocki T, et al. **Diabetes Care** 1990 Jan;13(1):65–8

A project in diabetes education for children. Bloomfield S, et al. **Diabetic Med** 1990 Feb;7(2):137–42

Residential weekend for children with diabetes. Hatcher T. **Diabetic Med** 1990 Feb;7(2):175–7

[Educational value of diabetes camps for children] Métroz-Dayer MD, et al. **Schweiz Med Wochenschr** 1990 Jan 20;120(3):66–71 (Eng. Abstr.) **(Fre)**

[Diabetes in professional life] Hasche H. **Off Gesundheitswes** 1990 Feb;52(2):85–90 (Eng. Abstr.) **(Ger)**

[Management of diabetic patients—a life-long rehabilitation process] Schulz B, et al. **Z Arztl Fortbild (Jena)** 1989; 83(19):967–72 (16 ref.) **(Ger)**

SURGERY

Regression of perineurial cell basement membrane in a human diabetic following isogenic pancreas transplant. Beggs JL, et al. **Acta Neuropathol (Berl)** 1989;79(1):108–12

In vitro culture and transplantation of encapsulated human fetal islets as an artificial endocrine pancreas. Wu ZG, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):736–8

Indication, selection of patients and timing for pancreatic transplantation. Bolinder J, et al. **Baillieres Clin Gastroenterol** 1989 Oct;3(4):825–33 (42 ref.)

Pancreatic islet transplantation. Morris PJ, et al. **Br Med Bull** 1989 Jan;45(1):224–41 (57 ref.)

Systemic venous drainage of pancreas allografts as independent cause of hyperinsulinemia in type I diabetic recipients. Diem P, et al. **Diabetes** 1990 May;39(5):534–40

Influence of pancreas transplantation on cardiorespiratory reflexes, nerve conduction, and mortality in diabetes mellitus. Navarro X, et al. **Diabetes** 1990 Jul;39(7):802–6

Insulin independence after islet transplantation into type I diabetic patient. Scharp DW, et al. **Diabetes** 1990 Apr; 39(4):515–8

Advances in islet cell transplantation: is science closer to a diabetes cure? [news] Skolnick A. **JAMA** 1990 Jul 25; 264(4):427–8

Pancreatic transplantation with venous portal drainage [letter] Klauser R, et al. **Lancet** 1989 Oct 21;2(8669):988

Pancreatic transplantation for type 1 diabetes [letter] Pyke D. **Lancet** 1990 Jun 23;335(8704):1538

Pancreas transplantation or insulin? [letter] Sutherland DE. **Lancet** 1990 Jul 14;336(8707):110

Is pancreas transplantation for insulin-dependent diabetes mellitus worthwhile? [letter; comment] Dafoe DC, et al. **N Engl J Med** 1990 May 31;322(22):1608–9 Comment on: N Engl J Med 1989 Jul 13;321(2):112–4.

Pancreas and islet-cell transplantation. Potential cure for diabetes. Soon-Shiong P, et al. **Postgrad Med** 1990 Jun; 87(8):133–4, 139–40 (29 ref.)

Current concepts in pancreas transplantation. Bartoš V. **Recenti Prog Med** 1990 Feb;81(2):88–93 (50 ref.)

Are late diabetic complications reversible after pancreas transplantation? A new method of follow-up of microcirculatory changes. Abendroth D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2325–6

Beneficial effect of pancreatic transplantation in insulin-dependent diabetes mellitus patients. Abendroth D, et al. **Transplant Proc** 1990 Apr;22(2):696–7

Islet cell transplantation in type I diabetes mellitus. Alejandro R, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2359–61

Percutaneous pancreas transplant fine needle aspiration and needle core biopsies are useful and safe. Allen PD, et al. **Transplant Proc** 1990 Apr;22(2):663–4

Combined pancreas and kidney transplantation: a pilot study. Allen RD, et al. **Transplant Proc** 1989 Oct;21(5):3784–5

The use of SMS 201–995, a somatostatin analog, in pancreas transplantation. Basadonna G, et al. **Transplant Proc** 1990 Apr;22(2):602–3

Neuropathy and psychosocial adjustment after pancreas transplant in diabetics. Bentley FR, et al. **Transplant Proc** 1990 Apr;22(2):691–5

Pancreatitis necessitating urinary undiversion in a bladder-drained pancreas transplant. Boudreaux JP, et al. **Transplant Proc** 1990 Apr;22(2):641–2

Combined pancreatic and renal transplantation: improved survival of uremic diabetic patients and renal grafts. Brekke IB, et al. **Transplant Proc** 1990 Aug;22(4):1580

Limited survival of human preislet cells transplanted into diabetic renal transplant recipients after 15 months. Brewin A, et al. **Transplant Proc** 1990 Apr;22(2):756–7

Glucose control after simultaneous segmental pancreas and kidney transplantation. Brons IG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2288–9

Conversion of whole pancreaticoduodenal transplants from bladder to enteric drainage for metabolic acidosis or dysuria. Burke GW, et al. **Transplant Proc** 1990 Apr; 22(2):651–2

Low incidence of rejection following combined kidney and pancreas transplantation. Cantarovich D, et al. **Transplant Proc** 1990 Apr;22(2):626–8

Experience with Belzer UW cold storage solution in simultaneous pancreas–kidney transplantation. D'Alessandro AM, et al. **Transplant Proc** 1990 Apr; 22(2):532–4

Pancreatic transplantation in Lyon: the whole series. Dubernard JM, et al. **Transplant Proc** 1990 Apr;22(2):595–6

Exocrine and endocrine function of pancreaticoduodenal grafts versus segmental pancreatic grafts. Elkader MW, et al. **Transplant Proc** 1990 Aug;22(4):1593–4

Urinary C-peptide excretion in pancreas transplantation with urinary drainage. Esmatjes E, et al. **Transplant Proc** 1990 Aug;22(4):1598–9

Results of cultured fetal pancreatic islet transplantation in juvenile diabetic patients. Farkas G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2352–3

Assessment of the factors influencing successful clinical islet transplantation. Farkas G, et al. **Transplant Proc** 1990 Aug; 22(4):2054

Alteration in diabetic retinopathy and nephropathy following islet transplantation. Farkas G, et al. **Transplant Proc** 1990 Apr;22(2):765–6

Morbidity during the first year after pancreas transplantation. Frohnert PP, et al. **Transplant Proc** 1990 Apr;22(2):577

An immunological comparison of pancreas transplants alone in nonuremic patients versus simultaneous pancreas/kidney transplants in uremic diabetic patients. Gruessner RW, et al. **Transplant Proc** 1990 Aug;22(4):1581

Simultaneous pancreas and kidney transplants versus single kidney transplants and previous kidney transplants in uremic patients and single pancreas transplants in nonuremic diabetic patients: comparison of rejection, morbidity, and long-term outcome. Gruessner RW, et al. **Transplant Proc** 1990 Apr;22(2):622–3

Metabolic control in recipients of duct-occluded segmental pancreatic grafts: a four-year follow-up. Holdaas H, et al. **Transplant Proc** 1990 Apr;22(2):655–6

Does pancreatic juice have a detrimental effect on the bladder mucosa? Königsrainer A, et al. **Transplant Proc** 1990 Aug;22(4):1600–1

Course of diabetic retinopathy after pancreas transplantation. Königsrainer A, et al. **Transplant Proc** 1990 Apr; 22(2):689–90

Whole versus segmental pancreas graft: two years metabolic results. La Rocca E, et al. **Transplant Proc** 1990 Apr; 22(2):653–4

Metabolic studies of type I diabetics after successful segmental pancreas and kidney transplantation. Landgraf R, et al. **Transplant Proc** 1990 Aug;22(4):1588–90

Prophylactic polyclonal versus monoclonal antibodies in kidney and pancreas transplantation. Lefrançois N, et al. **Transplant Proc** 1990 Apr;22(2):632–3

Serum pancreatic elastase 1 as a marker of pancreatic graft damage. Linder R, et al. **Transplant Proc** 1990 Aug; 22(4):1595

Differential immunosuppressive strategies after combined pancreaticoduodenal and isolated kidney transplantation. Mellert J, et al. **Transplant Proc** 1990 Aug;22(4):1584–5

Pancreatic retransplants: an analysis of the outcome. Morel P, et al. **Transplant Proc** 1990 Apr;22(2):620–1

Serial glycosylated hemoglobin levels in diabetic recipients of pancreatic transplants. Morel P, et al. **Transplant Proc** 1990 Apr;22(2):649–50

Pancreatic juice immunoreactive thromboxane B2 in pancreas allograft rejection. Nakache R, et al. **Transplant Proc** 1990 Apr;22(2):669

Renal transplantation in diabetes mellitus: influence of combined pancreas–kidney transplantation on outcome. Nakache R, et al. **Transplant Proc** 1990 Apr;22(2):624–5

Arterial stenoses in duct occluded segmental pancreatic grafts treated with percutaneous transluminal angioplasty. Norstein J, et al. **Transplant Proc** 1990 Apr;22(2):599–601

Effect of human fetal pancreas transplantation on secretion of C-peptide and glucose tolerance in type I diabetics. Robertson RP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2354–6

Thrombocytosis following segmental duct-occluded pancreatic transplantation. Schlumpf R, et al. **Transplant Proc** 1990 Apr;22(2):658–60

Long-term metabolic effects of segmental pancreas

transplantation. Secchi A, et al. **Transplant Proc** 1990 Aug; 22(4):1591–2

The principal results of pancreatic islet cell culture transplantation in diabetes mellitus patients. Shumakov VI, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2372

Transplantation of two diabetic patients with one divided cadaver donor pancreas. Sutherland DE, et al. **Transplant Proc** 1990 Apr;22(2):585

Long-term glucose control after pancreatic transplantation. Tibell A, et al. **Transplant Proc** 1990 Apr;22(2):645–6

High incidence of late rejections in preuremic recipients of pancreas transplants given alone or in combination with renal transplants. Tydén G, et al. **Transplant Proc** 1990 Aug;22(4):1582–3

Prevention of rejection and fibrosis: considerations in 25 patients. Valente U, et al. **Transplant Proc** 1990 Apr; 22(2):597–8

Effects of successful combined pancreatic and renal transplantation on advanced diabetic neuropathy: a one-year follow-up study. Wilczek H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2327–8

Late graft pancreatitis. Linder R, et al. **Transplantation** 1990 Aug;50(2):257–61

[Thrombocytosis following pancreas transplantation] Hunziker D, et al. **Helv Chir Acta** 1989 Dec;56(4):543–7 (Eng. Abstr.) **(Ger)**

[Indications for pancreas transplantation] Federlin K, et al. **Langenbecks Arch Chir** 1990;375(3):186–91 **(Ger)**

[Pancreas transplantation as treatment of diabetes mellitus] Diem P. **Ther Umsch** 1990 Jan;47(1):87–93 (45 ref.) (Eng. Abstr.) **(Ger)**

[Duplex sonography in postoperative monitoring of pancreatic transplants—initial experiences] Pöllmann H, et al. **Ultraschall Med** 1989 Dec;10(6):303–6 (Eng. Abstr.) **(Ger)**

[Clinical experiences with 50 pancreas transplantations] Königsrainer A, et al. **Zentralbl Chir** 1990;115(12):757–65 (Eng. Abstr.) **(Ger)**

[Islands of Langerhans transplant in the treatment of diabetes mellitus: current status, indications, future perspectives] Calafiore R, et al. **Recenti Prog Med** 1990 Feb;81(2):94–8 (8 ref.) (Eng. Abstr.) **(Ita)**

[The results of the intraportal allotransplantation of pancreatic islet cell cultures in patients with insulin-dependent diabetes mellitus] Bolko NI, et al. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):11–3 (Eng. Abstr.) **(Rus)**

[Characteristics of the postoperative period in diabetes mellitus type 1 in patients with distal splenorenal anastomosis] Ivanov PA, et al. **Sov Med** 1990;(2):17–9 (Eng. Abstr.) **(Rus)**

THERAPY

A hypnotherapeutic approach to the improvement of compliance in adolescent diabetics. Ratner H, et al. **Am J Clin Hypn** 1990 Jan;32(3):154–9

Management of diabetes in pediatric resident clinics [letter] Brouhard BH, et al. **Am J Dis Child** 1990 Apr;144(4):455

Management of diabetes in pediatric resident continuity clinics. Kronz KK, et al. **Am J Dis Child** 1989 Oct; 143(10):1173–6

Outpatient obstetric management of women with type I diabetes. Bourgeois FJ, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):1065–72; discussion 1072–3

Management of insulin dependent diabetes. Cohen M. **Aust Fam Physician** 1990 Aug;19(8):1201, 1205–6, 1209–14

Clinical observations on behavioral treatment of a patient with insulin-dependent diabetes mellitus. Bailey BK, et al. **Biofeedback Self Regul** 1990 Mar;15(1):7–13

Intervention studies in diabetic nephropathy. Klahr S. **Contrib Nephrol** 1989;73:147–58; discussion 158–9 (29 ref.)

What professional supervision should children with diabetes and their families expect? **Diabetic Med** 1990 Jul;7(6):555

The organization of services for children with diabetes in the United Kingdom: report of the British Paediatric Association Working Party. **Diabetic Med** 1990 Jun; 7(5):457–64

"Catheter-pens"—an alternative to insulin pump treatment? Menzel R, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):157–69

KADIS—a computer-aided decision support system for improving the management of type-I diabetes. Rutscher A, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):137–47

Doctors' beliefs and the management of insulin dependent diabetes: implications for sharing care. Kinmonth AL, et al. **Fam Pract** 1989 Sep;6(3):193–8

Immunotherapy in type 1 diabetes: present status [news] Pozzilli P, et al. **Immunol Today** 1989 Oct;10(10):321–2

Initial clinical management of childhood diabetes. Ko KW. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S47–50

Physical exercise and insulin dependent diabetes in the young: general approaches. Pinelli L, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S77–9

Summer camps for diabetic children in Beijing of China. Yan C, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S125–7

Effect of biofeedback assisted relaxation training on blood glucose levels in a type I insulin dependent diabetic. A case report. McGrady A, et al. **J Behav Ther Exp Psychiatry** 1990 Mar;21(1):69–75

Computer based instruction of diabetic children and adolescents. Techniques and results. Dammacco F, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):141–2

The use of computers in the control of diabetes in children and adolescents. Laron Z, et al. **J Endocrinol Invest** 1989; 12(8 Suppl 3):113–20 (27 ref.)

Treatment of hyperglycaemia in the elderly with diabetes mellitus. Madsbad S. **J Intern Med** 1990 Aug;228(2):79–82 (32 ref.)

Specific therapeutic attempts in experimental and clinical type-I diabetes. Federlin K, et al. **Klin Wochenschr** 1990; 68 Suppl 21:38–43 (31 ref.)

International efforts to manage diabetes. Minnesota Medicine interviews Donnell D. Etzwiler [interview] Etzwiler DD. **Minn Med** 1990 Jun;73(6):11–6

Insulin-dependent diabetes mellitus. Ginsberg-Fellner F. **Pediatr Rev** 1990 Feb;11(8):239–47 (21 ref.)

Enteral nutrition in diabetes mellitus. Schrezenmeir J, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:37–41

[The pediatric diabetology program in the 8th and 9th 5-year-plan for Slovakia] Michalková D, et al. **Cesk Pediatr** 1989 Aug;44(8):487–8 **(Cze)**

[An intensive therapeutic effort in spite of reduced economic resources. Background, course and consequences of a structural reorganization at a large regional diabetic clinic] Snorgaard O, et al. **Ugeskr Laeger** 1990 Aug 20; 152(34):2442–4 **(Dan)**

[Blood sugar regulation and diabetic retinopathy (letter)] van der Sluijs FA. **Ned Tijdschr Geneeskd** 1989 Oct 28; 133(43):2143 **(Dut)**

[Effects of taking charge and education on the remission of insulin-dependent diabetes (published erratum appears in Tunis Med 1990 Feb;68(2):145)] Bechir F, et al. **Tunis Med** 1989 Nov;67(11):703–7 (Eng. Abstr.) **(Fre)**

[Modern methods for controlling type-1 diabetes?] Jecht M, et al. **Dtsch Med Wochenschr** 1990 May 25;115(21):832–6 (46 ref.) **(Ger)**

[Diabetes education] Toeller M. **Internist (Berl)** 1990 Mar; 31(3):208–17 (52 ref.) **(Ger)**

[Effect of diabetes-psychosomatic group education on metabolic control and coping with disease by insulin-dependent diabetic patients] Albus C, et al. **Klin Wochenschr** 1990 Jan 19;68(2):77–82 (Eng. Abstr.) **(Ger)**

[Clinical significance, diagnosis and treatment of diabetes in pregnancy (gestational diabetes)] Berger W, et al. **Ther Umsch** 1990 Jan;47(1):71–9 (27 ref.) (Eng. Abstr.) **(Ger)**

[Frequent errors in the treatment of diabetes mellitus] Mehnert H. **Verh Dtsch Ges Inn Med** 1989;95:380–6 **(Ger)**

[Diabetes mellitus in children and adolescents: concepts for functional integration] Frank E, et al. **Wien Med Wochenschr** 1989 Sep 30;139(18):428–9 **(Ger)**

[The diabetic adolescent in the present and future] Chiumello G. **An Esp Pediatr Supl** 1988 Oct;35:23 **(Ita)**

[Treatment of diabetes mellitus in children] Kasatkina EP. **Pediatriia** 1990;(1):92–7 **(Rus)**

[Experience in treating patients with insulin-dependent diabetes mellitus by sodium salicylate electrophoresis] Kholodova EA, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):48–9 **(Rus)**

[Hyperbaric oxygenation in the combined treatment of patients with diabetes mellitus complicated by a suppurative-septic infection] Sinitsyn PD, et al. **Probl Endokrinol (Mosk)** 1990 May–Jun;36(3):21–3 (Eng. Abstr.) **(Rus)**

[Pregnancy and diabetes mellitus: necessity of greater and continuous multidisciplinary intervention] Escobar-Jiménez F, et al. **Rev Clin Esp** 1990 Mar; 186(4):175–7 (27 ref.) **(Spa)**

[Recommendations from meeting of experts: treatment of insulin-dependent diabetes mellitus] **Lakartidningen** 1989 Oct 18;86(42):3585–9 **(Swe)**

[Who will pay the self care training of diabetic adolescents?] Dahlqvist G, et al. **Lakartidningen** 1989 Nov 8;86(45):3884 **(Swe)**

URINE

Effects of storage time and temperature on measurement of small concentrations of albumin in urine. Osberg I, et al. **Clin Chem** 1990 Aug;36(8 Pt 1):1428–30

Urinary growth hormone during puberty in normal and diabetic children. Edge JA, et al. **Clin Endocrinol (Oxf)** 1989 Apr;30(4):413–20

Microalbuminuria—a marker of the risk of developing nephropathy in insulin-dependent diabetes. Dryáková M, et al. **Czech Med** 1989;12(3):181–8

Evaluation and clinical applications of measurement of urinary growth hormone in diabetic subjects. Suzuki K, et al. **Diabetes** 1989 Dec;38(12):1567–72

Overnight versus 24-h urine collection in detection of microalbuminuria [letter] Cook J, et al. **Diabetes Care** 1990 Jul;13(7):813

Hyperphosphaturia and hypermagnesuria in children with IDDM. Ponder SW, et al. **Diabetes Care** 1990 Apr; 13(4):437–41

Microalbuminuria is associated with long term poor glycemic control in adolescent insulin dependent diabetics. Bangstad HJ, et al. **Diabetes Res** 1989 Oct;12(2):71–4

Urinary IgG4: an additional parameter in characterizing patients with incipient diabetic nephropathy. Gambardella S, et al. **Diabetes Res** 1989 Apr;10(4):153–7

A screening test for microalbuminuria in type 1 (insulin-dependent) diabetes. Ciavarella A, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):307–12

Evaluation of Micro-Bumintest reagent tablets for screening of microalbuminuria. Tai J, et al. **Diabetes Res Clin Pract** 1990 May–Jun;9(2):137–42

Long-term variation of urinary albumin excretion in insulin-dependent diabetes mellitus: some practical recommendations for monitoring microalbuminuria. Watts GF, et al. **Diabetes Res Clin Pract** 1990 May–Jun; 9(2):169–77

Triphasic changes in selectivity with increasing proteinuria in type 1 and type 2 diabetes. Jerums G, et al. **Diabetic Med** 1989 Dec;6(9):772–9

Normal urinary albumin excretion in recently diagnosed type 1 diabetic patients. Lind B, et al. **Diabetic Med** 1989 Nov; 6(8):682–4

Increased urinary excretion of transferrin in children with type 1 diabetes mellitus. Martin P, et al. **Diabetic Med** 1990 Jan;7(1):35–40

Relationship between urinary excretion of sodium and dopamine in type 1 diabetic patients with an without microalbuminuria. Patrick AW, et al. **Diabetic Med** 1990 Jan;7(1):53–6

An acceptable exercise test to study microalbuminuria in type 1 diabetes. Watts GF, et al. **Diabetic Med** 1989 Dec; 6(9):787–92

The effect of water loading on albumin excretion in type I diabetes mellitus. Wiegmann TB, et al. **J Diabetic Complications** 1989 Oct–Dec;3(4):187–90

Angiotensin converting enzyme inhibitor therapy to decrease microalbuminuria in normotensive children with insulin-dependent diabetes mellitus. Cook J, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):39–45

Effects of nifedipine on renal responses to human atrial natriuretic peptide in healthy subjects and normoglycemic patients with type 1 diabetes mellitus. Jungmann E, et al. **Klin Wochenschr** 1989 Dec 4;67(23):1174–81

Variability of urine albumin excretion in normal and diabetic children. Gibb DM, et al. **Pediatr Nephrol** 1989 Oct; 3(4):414–9

Comparison of the prevalence and associated features of abnormal albumin excretion in insulin-dependent and non-insulin-dependent diabetes. Marshall SM, et al. **Q J Med** 1989 Jan;70(261):61–71

[Microalbuminuria—a risk indicator for the development of nephropathy in insulin-dependent diabetics] Dryáková M, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1372–6 (Eng. Abstr.) **(Cze)**

[Comparison of three methods to evaluate microalbuminuria in insulin-dependent diabetics: radioimmunoassay, laser-nephelometry and Laurell electroimmunodiffusion] Jenhani F, et al. **Diabete Metab** 1990 Mar–Apr;16(2):98–101 (Eng. Abstr.) **(Fre)**

[Validity of the first morning urine collection for screening for microalbuminuria in the diabetic] Signorini AM, et al. **Boll Soc Ital Biol Sper** 1989 Aug;65(8):719–25 (Eng. Abstr.) **(Ita)**

VETERINARY

Diabetes mellitus in a koala (Phascolarctos cinereus). Shimizu T, et al. **Vet Pathol** 1989 Nov;26(6):528–9

DIABETES MELLITUS, JUVENILE ONSET see **DIABETES MELLITUS, INSULIN-DEPENDENT**

DIABETES MELLITUS, KETOSIS PRONE see **DIABETES MELLITUS, INSULIN-DEPENDENT**

DIABETES MELLITUS, KETOSIS RESISTANT see **DIABETES MELLITUS, NON-INSULIN-DEPENDENT**

DIABETES MELLITUS, LIPOATROPHIC

Diabetes mellitus and lipoatrophy. Smith JP, et al. **South Med J** 1990 May;83(5):573–6

ETIOLOGY

Nerve-growth factor and lipoatrophic diabetes [letter] DiNicola AF. **Am J Clin Nutr** 1975 Dec;28(12):1344–5

DIABETES MELLITUS, NON-INSULIN-DEPENDENT

Sensory neuropathy in non-insulin-dependent diabetes mellitus. The San Luis Valley Diabetes Study. Franklin GM, et al. **Am J Epidemiol** 1990 Apr;131(4):633–43

Dental status in a group of adult diabetic patients. Bačić M, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):313–6

Heart transplantation in mildly diabetic patients. Faglia E, et al. **Diabetes** 1990 Jun;39(6):740–2

Drug therapy in patients with diabetes mellitus: an audit. Paterson JR, et al. **Diabetes Res** 1989 Dec;12(4):169–71

Beneficial effects of angiotensin-converting enzyme inhibitor on renal function and glucose homeostasis in diabetics with hypertension. Ueda Y, et al. **Nephron** 1990;55 Suppl 1:85–9

Practical management of diabetes in the tropics. Gill G. **Trop Doct** 1990 Jan;20(1):4–10 (18 ref.)

[Incidence and developmental interdependence of peripheral nerve disorders in type 2 diabetics] Kalita Z, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1357–60 (Eng. Abstr.) **(Cze)**

["This is only an old man's sugar disease!" (editorial)] Beck-Nielsen H, et al. **Ugeskr Laeger** 1990 Jan 1;152(1):1 (Dan)

[Non-insulin-dependent diabetes mellitus. Diagnosis and treatment. An interpretation] Beck-Nielsen H, et al. **Ugeskr Laeger** 1990 Jan 1;152(1):2-10 (0 ref.) (Eng. Abstr.) (Dan)

[Non-insulin-dependent diabetes mellitus: what we have learnt from studies carried out among Pima Indians] Bennett PH, et al. **Journ Annu Diabetol Hotel Dieu** 1990; :231-45 (69 ref.) (Fre)

BLOOD

Somatomedin-C (SM-C). Study in diabetic patients with and without retinopathy. Nardelli GM, et al. **Acta Diabetol Lat** 1989 Jul-Sep;26(3):217-24

Impaired somatostatin response to orally administered glucose in type II diabetes entails both somatostatin-28 and -14 and is associated with deranged metabolic control. Gutniak M, et al. **Acta Endocrinol (Copenh)** 1989 Sep; 121(3):322-6

Association of neutrophil alkaline phosphatase activity and glycosylated haemoglobin in diabetes mellitus. Tsavaris NB, et al. **Acta Haematol (Basel)** 1990;83(1):22-5

Plasma erythropoietin activity in diabetes patients, studied by determining the 59Fe incorporation in posthypoxic polycythemic mice. Nikolov V, et al. **Acta Physiol Pharmacol Bulg** 1989;15(4):37-40

Clinical evaluation of acetylsalicylic acid to improve glycemia in type II diabetic patients. Mata-Segreda JF, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(1):9-13

Insulin sensitivity in patients with anorexia nervosa and bulimia. Kiriike N, et al. **Acta Psychiatr Scand** 1990 Mar; 81(3):236-9

Comparison of the effects of lovastatin and gemfibrozil on lipids and glucose control in non-insulin-dependent diabetes mellitus. Goldberg R, et al. **Am J Cardiol** 1990 Sep 18;66(8):16B-21B

Acetate tolerance and the kinetics of acetate utilization in diabetic and nondiabetic subjects. Akanji AO, et al. **Am J Clin Nutr** 1990 Jan;51(1):112-8

Water volume and consumption time: influence on the glycemic and insulinemic responses in non-insulin-dependent diabetic subjects. Gregersen S, et al. **Am J Clin Nutr** 1990 Sep;52(3):515-8

Diabetic hypouricemia as an indicator of clinical nephropathy. Shichiri M, et al. **Am J Nephrol** 1990; 10(2):115-22

Glibenclamide steady state plasma levels during concomitant vinpocetine administration in type II diabetic patients. Grandt R, et al. **Arzneimittelforschung** 1989 Nov; 39(11):1451-4

Metformin-induced changes in serum lipids, lipoproteins, and apoproteins in non-insulin-dependent diabetes mellitus. Schneider J, et al. **Atherosclerosis** 1990 May;82(1-2):97-103

Glycosylated hemoglobin levels and self-reported stress in adults with diabetes. Demers RY, et al. **Behav Med** 1989 Winter;15(4):167-72

Blood glucose discrimination training in patients with type II diabetes. Lamparski DM, et al. **Biofeedback Self Regul** 1989 Sep;14(3):195-206

Clinical trial of Myrcia uniflora and Bauhinia forficata leaf extracts in normal and diabetic patients. Russo EM, et al. **Braz J Med Biol Res** 1990;23(1):11-20

Osteocalcin levels in diabetic subjects. Pedrazzoni M, et al. **Calcif Tissue Int** 1989 Dec;45(6):331-6

The relationship of plasma acetate with glucose and other blood intermediary metabolites in non-diabetic and diabetic subjects. Akanji AO, et al. **Clin Chim Acta** 1989 Oct 31; 185(1):25-34

Radioimmunoassay may overestimate insulin in non-insulin-dependent diabetics. Temple RC, et al. **Clin Endocrinol (Oxf)** 1990 Jun;32(6):689-93

Effects of glyburide treatment on serum lipoprotein and apolipoprotein concentrations and ratios in non-insulin-dependent diabetes mellitus. Waysbort J, et al. **Clin Ther** 1988;10(4):392-400

Water-immersion-induced alterations of atrial natriuretic peptide, plasma renin activity, aldosterone and vasopressin in diabetic patients. Kokot F, et al. **Contrib Nephrol** 1989; 73:102-10; discussion 110-1

Effect of glycaemic control, metformin and gliclazide on platelet density and aggregability in recently diagnosed type 2 (non-insulin-dependent) diabetic patients. Collier A, et al. **Diabete Metab** 1989 Nov-Dec;15(6):420-5

Is glucose self-monitoring beneficial in non-insulin-treated diabetic patients? Results of a randomized comparative trial. Fontbonne A, et al. **Diabete Metab** 1989 Sep-Oct; 15(5):255-60

Improvement with metformin in insulin internalization and processing in monocytes from NIDDM patients. Benzi L, et al. **Diabetes** 1990 Jul;39(7):844-9

Effects of fish oil supplementation on glucose and lipid metabolism in NIDDM. Borkman M, et al. **Diabetes** 1989 Oct;38(10):1314-9

Effects of meal ingestion on plasma amylin concentration in NIDDM and nondiabetic humans. Butler PC, et al. **Diabetes** 1990 Jun;39(6):752-6

Serum type IV collagen concentrations in diabetic patients with microangiopathy as determined by enzyme immunoassay with monoclonal antibodies. Matsumoto E, et al. **Diabetes** 1990 Aug;39(8):885-90

Altered cellular Ca2+ and Na+ transport in diabetes mellitus. Mazzanti L, et al. **Diabetes** 1990 Jul;39(7):850-4

Defects in insulin-receptor internalization and processing in monocytes of obese subjects and obese NIDDM patients. Trischitta V, et al. **Diabetes** 1989 Dec;38(12):1579-84

Clinical significance of erythrocyte sorbitol-blood glucose ratios in type II diabetes mellitus. Aida K, et al. **Diabetes Care** 1990 May;13(5):461-7

Effect of temporal distribution of calories on diurnal patterns of glucose levels and insulin secretion in NIDDM. Beebe CA, et al. **Diabetes Care** 1990 Jul;13(7):748-55

Frozen desserts and glycemic response in well-controlled NIDDM patients. Bukar J, et al. **Diabetes Care** 1990 Apr; 13(4):382-5

Hemostatic alterations with exercise conditioning in NIDDM. Hornsby WG, et al. **Diabetes Care** 1990 Feb; 13(2):87-92

Blood glucose area under the curve. Methodological aspects. Le Floch JP, et al. **Diabetes Care** 1990 Feb;13(2):172-5

Stability of stored chemstrip bG [letter; comment] Mezitis NH, et al. **Diabetes Care** 1990 Feb;13(2):179-80 Comment on: Diabetes Care 1989 Jun;12(6):379-83.

Five-year follow-up study on plasma insulin levels in newly diagnosed NIDDM patients and nondiabetic subjects. Niskanen LK, et al. **Diabetes Care** 1990 Jan;13(1):41-8

Fish oil and glycemic control: importance of dose [letter] Popp-Snijders C, et al. **Diabetes Care** 1990 Jan;13(1):80-1

Effects of changing amount of carbohydrate in diet on plasma lipoproteins and apolipoproteins in type II diabetic patients. Rivellese AA, et al. **Diabetes Care** 1990 Apr;13(4):446-8

Tissue plasminogen activator inhibition in diabetes mellitus. Small M, et al. **Diabetes Care** 1989 Oct;12(9):655-8

Effect of metformin on carbohydrate and lipoprotein metabolism in NIDDM patients. Wu MS, et al. **Diabetes Care** 1990 Jan;13(1):1-8

Lipoprotein subfraction composition in non-obese newly diagnosed non-insulin dependent diabetes after treatment with diet and glibenclamide. Billingham MS, et al. **Diabetes Res** 1989 May;11(1):13-20

Glucose tolerance and insulin response to glucose load before and after enzyme inducing therapy in subjects with glucose intolerance and patients with NIDDM having hyperinsulinemia or relative insulin deficiency. Sotaniemi EA, et al. **Diabetes Res** 1989 Jul;11(3):131-9

Radioimmunoassay of glycated serum protein using monoclonal antibody to glucitollysine and coomassie-brilliant-blue-coated polystyrene beads. Yamamoto Y, et al. **Diabetes Res** 1989 May;11(1):45-9

Alterations of plasma immunoreactive glucagon-like peptide-1 behavior in non-insulin-dependent diabetics. Hirota M, et al. **Diabetes Res Clin Pract** 1990 May-Jun; 9(2):179-85

Clinical application of measurement of glucose transport in human polymorphonuclear leukocytes. Okuno Y, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S5-9

Diurnal variation in glucose and leucine metabolism in non-insulin-dependent diabetes. Umpleby AM, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):89-96

Free radical activity in type 2 diabetes. Collier A, et al. **Diabetic Med** 1990 Jan;7(1):27-30

Clinical utility of assays of glycosylated haemoglobin and serum fructosamine compared: use of data on biological variation. Howey JE, et al. **Diabetic Med** 1989 Dec; 6(9):793-6

Haemostatic measures in type 2 diabetic patients with microalbuminuria. Schmitz A, et al. **Diabetic Med** 1990 Jul; 7(6):521-5

The glucose dependent insulinotropic polypeptide response to oral glucose and mixed meals is increased in patients with type 2 (non-insulin-dependent) diabetes mellitus. Jones IR, et al. **Diabetologia** 1989 Sep;32(9):668-77

Metabolism of very low- and low-density lipoproteins isolated from normolipidaemic type 2 (non-insulin-dependent) diabetic patients by human monocyte-derived macrophages. Klein RL, et al. **Diabetologia** 1990 May;33(5):299-305

Albuminuria in type 2 (non-insulin-dependent) diabetes mellitus and impaired glucose tolerance in Pima Indians. Nelson RG, et al. **Diabetologia** 1989 Dec;32(12):870-6

Cellular cholesterol regulation--a defect in the type 2 (non-insulin-dependent) diabetic patient in poor metabolic control. Owens D, et al. **Diabetologia** 1990 Feb;33(2):93-9

Influence of carvedilol on blood glucose and glycohaemoglobin A1 in non-insulin-dependent diabetics. Ehmer B, et al. **Drugs** 1988;36 Suppl 6:136-40

Effects of metformin therapy on plasma amino acid pattern in patients with maturity-onset diabetes. Marchetti P, et al. **Drugs Exp Clin Res** 1989;15(11-12):565-70

A new case of familial hyperproinsulinemia. Hashimoto T, et al. **Endocrinol Jpn** 1989 Aug;36(4):545-52

Serum fructosamine in assessment of diabetic control and relation to thyroid function. Sako Y, et al. **Horm Metab Res** 1989 Dec;21(12):669-72

Differential effect of type I and type II diabetes mellitus on serum ampicillin levels. Adithan C, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Oct;27(10):493-8

Effects of a gel forming dietary fiber, guar gum, on the absorption of glibenclamide and metabolic control and serum lipids in patients with non-insulin-dependent (type 2) diabetes. Uusitupa M, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Apr;28(4):153-7

Glucoregulation and hormonal responses to maximal exercise in non-insulin-dependent diabetes. Kjaer M, et al. **J Appl Physiol** 1990 May;68(5):2067-74

Platelet aggregation and metabolic control are not affected by calcium antagonist treatment in type II diabetes mellitus. Klauser R, et al. **J Cardiovasc Pharmacol** 1990;15 Suppl 1:S93-6

Apolipoprotein-E2 and hyperlipoproteinemia in noninsulin-dependent diabetes mellitus. Eto M, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1207-12

Disproportionately elevated proinsulin in Pima Indians with noninsulin-dependent diabetes mellitus. Saad MF, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1247-53

Glucose and insulin suppression of plasma free fatty acids in obese subjects with normal glucose tolerance or mild, newly diagnosed type 2 (non-insulin-dependent) diabetes. Zancanaro C, et al. **J Endocrinol Invest** 1990 Jan;13(1):55-9

Clinofibrate therapy raises high-density lipoprotein levels and lowers atherogenic index in diabetes mellitus patients. Okada S, et al. **J Int Med Res** 1989 Nov-Dec;17(6):521-5

The predictive capability of the glycaemic response to spaghetti in non-insulin dependent (NIDDM) and insulin dependent (IDDM) diabetic subjects. Rasmussen O, et al. **J Intern Med** 1990 Aug;228(2):97-101

Total hemolytic complement (CH50) and its fractions (C3 and C4) in the sera of diabetic patients with periodontitis. Anil S, et al. **J Periodontol** 1990 Jan;61(1):27-9

The glycosylated hemoglobin assay for diabetes: its value to the periodontist. Two case reports. Piché JE, et al. **J Periodontol** 1989 Nov;60(11):640-2

Tongue color and whole blood viscosity in patients of diabetes mellitus after treatment by TCM prescription for replenishing qi, nourishing yin and activating blood circulation. Guo SS, et al. **J Tradit Chin Med** 1989 Dec; 9(4):294-6

Reduced islet-amyloid polypeptide in insulin-dependent diabetes mellitus [letter; comment] Hartter E, et al. **Lancet** 1990 Apr 7;335(8693):854 Comment on: Lancet 1990 Jan 6;335(8680):60.

Decrease of serum immunoglobulin M levels in some diabetic patients. Cheţa D, et al. **Med Interne** 1989 Jul-Sep; 27(3):219-23

Adverse effects of obesity on lipid and lipoprotein levels in insulin-dependent and non-insulin-dependent diabetes. Laakso M, et al. **Metabolism** 1990 Feb;39(2):117-22

Thromboxane biosynthesis and platelet function in type II diabetes mellitus. Davì G, et al. **N Engl J Med** 1990 Jun 21;322(25):1769-74

Prospective study of the impact of hypertension upon kidney function in diabetes mellitus. Walker WG, et al. **Nephron** 1990;55 Suppl 1:21-6

Effects of Chinese medicinal herbs on hemorheology in diabetics. Liang XC, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(3):135-8

Platelet activation and cyclo-and lipoxygenase-activities in diabetes type II. Rösen P, et al. **Prog Clin Biol Res** 1989; 301:359-63

Comparison of metabolic control among diabetic subjects at two clinics. O'Connor PJ, et al. **Public Health Rep** 1989 Sep-Oct;104(5):478-82

Intravenous glucose tolerance and mortality in non-insulin-dependent diabetes mellitus. Coppack SW, et al. **Q J Med** 1990 May;75(277):451-60

Prognostic importance of admission plasma glucose in diabetic and non-diabetic patients with acute myocardial infarction. Sewdarsen M, et al. **Q J Med** 1989 May; 71(265):461-6

Relation between fasting C-peptide and other clinical and metabolic variables in non-insulin-dependent diabetes mellitus. Seghieri G, et al. **Quad Sclavo Diagn** 1988 Jan-Dec;24(1-4):65-72

Symptom beliefs and actual blood glucose in type II diabetes. O'Connell KA, et al. **Res Nurs Health** 1990 Jun; 13(3):145-51

Effects of high-fructose (90%) corn syrup on plasma glucose, insulin, and C-peptide in non-insulin-dependent diabetes mellitus and normal subjects. Hung CT. **Taiwan I Hsueh Hui Tsa Chih** 1989 Sep;88(9):883-5

Apolipoproteins A-I and B in non-insulin-dependent diabetes mellitus. Lee LS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Nov-Dec; 88(11-12):1139-42

Increased plasminogen activator inhibitor activity in non insulin dependent diabetic patients--relationship with plasma insulin. Juhan-Vague I, et al. **Thromb Haemost** 1989 Jun 30;61(3):370-3

Hypofibrinolysis associated with vasculopathy in non insulin dependent diabetes mellitus. García Frade LJ, et al. **Thromb Res** 1990 Jul 1;59(1):51-9

Plasma HDL cholesterol, triglyceride and total cholesterol levels in non insulin treated Nigerian diabetics. Erasmus RT, et al. **Trop Geogr Med** 1989 Jul;41(3):238-41

Plasma magnesium and retinopathy in black African diabetics. Erasmus RT, et al. **Trop Geogr Med** 1989 Jul; 41(3):234-7

Performance and clinical significance of the new fructosamine assay in diabetic patients. Melzi d'Eril GV, et al. **Wien Klin Wochenschr Suppl** 1990;180:60-3; discussion 78-81

[The correlation of glycohemoglobin (HbA1) with the parameters of blood glucose control during the treatment of diabetes mellitus] Khristov V, et al. **Vutr Boles** 1989;

28(6):48–52 (Eng. Abstr.) (Bul)
[Comparison of blood sugar and insulin reactions of obese and non-obese patients with NIDDM] Wang H, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;69(11):631–2 (Chi)
[The effect of Sinecal fiber on compensation in type 2 diabetics] Perušičová J, et al. **Vnitr Lek** 1989 Oct; 35(10):998–1005 (Eng. Abstr.) (Cze)
[The effect of elevated blood glucose levels and body weight on the metabolic profile in type 2 diabetes after long-term therapy] Válek J, et al. **Vnitr Lek** 1990 Feb;36(2):154–62 (Eng. Abstr.) (Cze)
[Levels of fasting blood glucose and serum fructosamine for monitoring of glucose control in patients with non-insulin-dependent diabetes mellitus] Mercelina LF, et al. **Ned Tijdschr Geneeskd** 1989 Sep 23;133(38):1887–90 (Eng. Abstr.) (Dut)
[Determination of fasting blood glucose and serum fructosamine levels for the assessment of glucose regulation in patients with non-insulin dependent diabetes mellitus (letter)] van Haeften TW, et al. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2356–7 (Dut)
[Diabetes mellitus in the elderly] van der Veen EA. **Tijdschr Gerontol Geriatr** 1990 Feb;21(1):7–10 (7 ref.) (Eng. Abstr.) (Dut)
["Glucosensor Unitec Ulm". A portable, continuously measuring glucose sensor and monitor] Zier H, et al. **Biomed Tech (Berlin)** 1990 Jan–Feb;35(1–2):2–4 (Eng. Abstr.) (Ger)
[Diurnal variations of fructosamine in patients with type II diabetes mellitus] Brunnbauer M, et al. **Wien Klin Wochenschr Suppl** 1990;180:72–3; discussion 78–81 (Eng. Abstr.) (Ger)
[Diagnosis of the diabetic metabolic status using fructosamine (and HbA1c) determination. The glycation quotient Glyc-Q, the glycation nomogram] Henrichs HR. **Wien Klin Wochenschr Suppl** 1990;180:64–9; discussion 78–81 (Eng. Abstr.) (Ger)
[Fructosamine values in venous and capillary blood] Lemke C, et al. **Wien Klin Wochenschr Suppl** 1990;180:38–9; discussion 57–9 (Eng. Abstr.) (Ger)
[Effect of a change in posture on the diurnal variations of fructosamine concentration in diabetic patients] Willms B, et al. **Wien Klin Wochenschr Suppl** 1990;180:44–8; discussion 57–9 (Eng. Abstr.) (Ger)
[Disorders of lipid metabolism in diabetes mellitus] Biesenbach G. **Wien Med Wochenschr Suppl** 1989;105:9–17 (131 ref.) (Eng. Abstr.) (Ger)
[Changes in carbohydrate and lipid metabolism and modification of diabetes mellitus by hormonal contraceptives] Hopp H, et al. **Z Arztl Fortbild (Jena)** 1990; 84(1–2):31–4 (20 ref.) (Ger)
[Blood glucose self-monitoring with the Glucosignal test strip in routine practice—experiences of a district diabetes center] Groh G. **Z Gesamte Inn Med** 1990 Jan 1;45(1):12–4 (Eng. Abstr.) (Ger)
[Evaluation of various hemorheologic parameters in diabetes mellitus] Cella A, et al. **Boll Soc Ital Biol Sper** 1990 Apr; 66(4):335–42 (Eng. Abstr.) (Ita)
[Importance of the determination of fructosamine in monitoring diabetic patients] Vinci VS, et al. **Medicina (Firenze)** 1990 Jan–Mar;10(1):25–7 (Eng. Abstr.) (Ita)
[Short-term metabolic compensation improves the lipo-apoprotein profile in type II diabetics in secondary insufficiency] Barbagallo CM, et al. **Recenti Prog Med** 1990 Feb;81(2):128–31 (Eng. Abstr.) (Ita)
[Erythrocyte aggregation in subjects with alterations in glucose metabolism during the preclinical phase] Giansanti R, et al. **Ric Clin Lab** 1989;19 Suppl 1:169–71 (Ita)
[Growth hormone response to arginine administration in diabetics—with special reference to the multiple regression analysis in association with diabetic retinopathy] Kitada M, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Jun 20; 65(6):558–71 (Eng. Abstr.) (Jpn)
[A case of non-insulin dependent diabetes mellitus whose insulin requirement was markedly reduced after disopyramide treatment in arrhythmia] Onoda N, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):820–5 (Jpn)
[Serum levels of calcitonin, parathyroid hormone and 25-hydroxycholecalciferol in patients with diabetes mellitus] Blasiak M, et al. **Endokrynol Pol** 1989;40(5):241–50 (Eng. Abstr.) (Pol)
[Occurrence of early-morning hyperglycemia (dawn phenomenon) in patients with diabetes mellitus type 1 and 2] Jasik M, et al. **Pol Arch Med Wewn** 1989 Apr; 81(4):207–13 (Eng. Abstr.) (Pol)
[Somatostatin-like activity (SLI) in the blood during metformin treatment of obese patients with diabetes mellitus type 2] Lawecki J, et al. **Pol Arch Med Wewn** 1989 Mar;81(3):183–8 (Eng. Abstr.) (Pol)
[Correlation of glycosylated serum protein and glycosylated hemoglobin in patients with diabetes mellitus type 2 at various stages of metabolic compensation] Plechanow J, et al. **Pol Arch Med Wewn** 1987 Sep;78(3):149–53 (Eng. Abstr.) (Pol)
[Superoxide anion production and adhesiveness of neutrophils in obese patients] Wierusz-Wysocka B, et al. **Pol Arch Med Wewn** 1989 Aug–Sep;82(2–3):98–104 (Eng. Abstr.) (Pol)
[Activity of factor XIII and various lipid components of blood serum in patients with diabetes mellitus] Zarzycka B, et al. **Pol Arch Med Wewn** 1987 Mar;77(3):94–100 (Eng. Abstr.) (Pol)
[Some parameters of hemostasis in diabetic patients] Sroczyński J, et al. **Pol Tyg Lek** 1989 May 1–8; 44(18–19):420–2 (Eng. Abstr.) (Pol)
[Serum apolipoprotein and lipoprotein levels in patients with diabetes mellitus type 2] Gosiewska A, et al. **Wiad Lek** 1989 Apr 1;42(7):436–40 (Eng. Abstr.) (Pol)
[Early-morning hyperglycemia in patients with diabetes mellitus types 1 and 2] Jasik M. **Wiad Lek** 1989 Apr 30; 42(8):529–32 (11 ref.) (Eng. Abstr.) (Pol)
[Glycosylated proteins and various acute phase factors in patients with type II diabetes] Knapik-Kordecka M, et al. **Wiad Lek** 1990 Mar 1–15;43(5–6):193–8 (Eng. Abstr.) (Pol)
[Control of the metabolic state of diabetic patients by determining the concentration of serum glycosylated proteins (the fructosamine test)] Dogaru C, et al. **Rev Med Interna [Med Interna]** 1989 Sep–Oct;41(5):449–58 (Eng. Abstr.) (Rum)
[Hemostasis and lipid metabolism in patients with non-insulin- dependent diabetes mellitus and angiopathy of the lower extremities] Mamedgasanov RM, et al. **Klin Med (Mosk)** 1989 Aug;67(8):74–6 (Eng. Abstr.) (Rus)
[The insulin and proinsulin levels in patients with newly detected diabetes mellitus] Arbuzova MI, et al. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):28–31 (Eng. Abstr.) (Rus)
[The content of basic apoproteins A1 and B and lipids in the blood serum of women with type-I and -II diabetes mellitus and ischemic heart disease] Madanat AIa, et al. **Probl Endokrinol (Mosk)** 1989 Jul–Aug;35(4):3–7 (Eng. Abstr.) (Rus)
[Disorders of blood coagulation and microcirculation in diabetics] Titova SI, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):3–7 (Eng. Abstr.) (Rus)
[Interrelations of trypsin-type serine proteases with the hemostatic system in diabetics] Vaniurikhina LT, et al. **Vrach Delo** 1989 Jul;(7):88–90 (Eng. Abstr.) (Rus)
[Hypoglycemic action of different doses of nopal (Opuntia streptacantha Lemaire) in patients with type II diabetes mellitus] Frati-Munari AC, et al. **Arch Invest Med (Mex)** 1989 Apr–Jun;20(2):197–201 (Eng. Abstr.) (Spa)
[Effect of a dehydrated extract of nopal (Opuntia ficus indica Mill.) on blood glucose] Frati-Munari AC, et al. **Arch Invest Med (Mex)** 1989 Jul–Sep;20(3):211–6 (Eng. Abstr.) (Spa)
[2,070 simultaneous determinations of blood glucose, glucosylated hemoglobin and fructosamine as index of metabolic control in 519 diabetic patients] Gómez Reyes D, et al. **Rev Clin Esp** 1989 Nov;185(7):354–8 (Eng. Abstr.) (Spa)

CLASSIFICATION

Does type 2 diabetes really exist? [letter; comment] Matz R. **Diabetic Med** 1990 May;7(4):367 Comment on: Diabetic Med 1989 Nov;6(8):728–35.
Non-insulin-dependent (type 2) diabetes mellitus: does it really exist? [see comments] Zimmet P. **Diabetic Med** 1989 Nov;6(8):728–35 (82 ref.) Comment in: Diabetic Med 1990 May;7(4):367.
[C-peptide measurement in the classification of diabetes mellitus and in the assessment of requirements for insulin treatment] Gjessing HJ. **Ugeskr Laeger** 1990 Feb 26; 152(9):588–93 (30 ref.) (Eng. Abstr.) (Dan)

COMPLICATIONS

Low serum levels of nerve growth factor in diabetic neuropathy. Faradji V, et al. **Acta Neurol Scand** 1990 May; 81(5):402–6
Non-stereo fundus photography as a screening procedure for diabetic retinopathy among patients with type II diabetes. Compared with 60D enhanced slit-lamp examination. Kalm H, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):546–53
Increased prevalence of clinical gallbladder disease in subjects with non-insulin-dependent diabetes mellitus. Haffner SM, et al. **Am J Epidemiol** 1990 Aug;132(2):327–35
Metabolic effects of diuretic and beta-blocker treatment of hypertension in patients with non-insulin-dependent diabetes mellitus. Fuh MM, et al. **Am J Hypertens** 1990 May;3(5 Pt 1):387–90
Effect of hypertension and type II diabetes on renal function in an urban population. Tierney WM, et al. **Am J Hypertens** 1990 Jan;3(1):69–75
Dietary calcium induces regression of left ventricular hypertrophy in hypertensive non-insulin-dependent diabetic blacks. Zemel MB, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 1):458–63
General considerations in selecting antihypertensive agents in patients with type II diabetes mellitus and hypertension. Andrén L. **Am J Med** 1989 Dec 8;87(6A):39S–41S (72 ref.)
Sulfonylurea failure in non-insulin-dependent diabetes mellitus [letter; comment] Bell DS. **Am J Med** 1990 Apr; 88(4):446–7 Comment on: Am J Med 1989 Aug;87(2):183–90.
Transient atrial fibrillation precipitated by hypoglycemia. Odeh M, et al. **Ann Emerg Med** 1990 May;19(5):565–7
Chronic renal failure in non-insulin-dependent diabetes mellitus. A population-based study in Rochester, Minnesota. Humphrey LL, et al. **Ann Intern Med** 1989 Nov 15;111(10):788–96
Outpatient management of uncomplicated lower-extremity infections in diabetic patients. Lipsky BA, et al. **Arch Intern Med** 1990 Apr;150(4):790–7
Prevalence of diagnosed hypertension among diabetic Navajo Indians. Sugarman JR. **Arch Intern Med** 1990 Feb; 150(2):359–62
Metabolic effects of ramipril treatment in hypertensive subjects with non-insulin-dependent diabetes mellitus. Janka HU, et al. **Arzneimittelforschung** 1990 Apr; 40(4):432–5
Foot ulcers in previously undiagnosed diabetes mellitus. Glynn JR, et al. **BMJ** 1990 Apr 21;300(6731):1046–7
Impaired healing of neuropathic foot ulcers due to neuropathic bladder distension in a patient with diabetes. Masson EA, et al. **BMJ** 1990 Aug 4;301(6746):281
Acute terminal aortic thrombosis in an uncontrolled diabetic [see comments] Roberts-Thomson HJ, et al. **Br J Hosp Med** 1989 Sep;42(3):237 Comment in: Br J Hosp Med 1990 Feb;43(2):107.
Polycystic ovarian disease (PCOD) and non-insulin-dependent diabetes mellitus (NIDDM) [letter] Fox R. **Br J Obstet Gynaecol** 1990 Feb;97(2):193–4
Virilizing nodular ovarian stromal hyperthecosis, diabetes mellitus and insulin resistance in a postmenopausal woman. Case report [see comments] Leedman PJ, et al. **Br J Obstet Gynaecol** 1989 Sep;96(9):1095–8 Comment in: Br J Obstet Gynaecol 1990 Jan;97(1):89.
Sjögren's syndrome and diabetes mellitus [letter; comment] Pal B. **Br J Rheumatol** 1990 Apr;29(2):157–8 Comment on: Br J Rheumatol 1989 Dec;28(6):518–20.
Resting electrocardiographic abnormalities suggestive of asymptomatic ischemic heart disease associated with non-insulin-dependent diabetes mellitus in a defined population. Scheidt-Nave C, et al. **Circulation** 1990 Mar; 81(3):899–906
5-year incidence of atherosclerotic vascular disease in relation to general risk factors, insulin level, and abnormalities in lipoprotein composition in non-insulin-dependent diabetic and nondiabetic subjects. Uusitupa MI, et al. **Circulation** 1990 Jul;82(1):27–36
Increased furosemide-sensitive sodium influx into erythrocytes in non-insulin-dependent diabetes mellitus associated with hypertension. Chimori K, et al. **Clin Chim Acta** 1989 Aug 31;183(3):263–71
Diuretics and other antihypertensive drugs and glycemic control in non-insulin-dependent diabetics with hypertension. A survey by the Fukuoka Diabetes Clinic Group. Tsutsu N, et al. **Clin Exp Hypertens [A]** 1989; 11(8):1487–504
Accumulation of the risk factors of atherosclerosis in type-II diabetics with hypertension. Tkáč I, et al. **Czech Med** 1990; 13(1):9–17
Focal muscle infarction in a diabetic [letter] Boluda B, et al. **Diabete Metab** 1989 Sep–Oct;15(5):269–70
Management of dyslipidemia in NIDDM. Garg A, et al. **Diabetes Care** 1990 Feb;13(2):153–69 (103 ref.)
Left ventricular regional function after acute anterior myocardial infarction in diabetic patients. Takahashi N, et al. **Diabetes Care** 1989 Oct;12(9):630–5
A trial of the calcium antagonist felodipine in hypertensive type 2 diabetic patients. Capewell S, et al. **Diabetic Med** 1989 Dec;6(9):809–12
Effects of drugs on glucose tolerance in non-insulin-dependent diabetics (Part I). O'Byrne S, et al. **Drugs** 1990 Jul;40(1):6–18 (0 ref.)
Angiotensin-converting enzyme (ACE) inhibition. Therapeutic option for diabetic hypertensive patients. Zanella MT, et al. **Drugs** 1990;39 Suppl 2:33–9
Albumin index in spot urine from outpatients with noninsulin-dependent diabetes mellitus. Umeda F, et al. **Endocrinol Jpn** 1989 Oct;36(5):747–54
Essential hypertension and insulin resistance in non-insulin-dependent diabetes. Laakso M, et al. **Eur J Clin Invest** 1989 Dec;19(6):518–26
Update on diabetic nephropathy in NIDDM. Dere WH, et al. **Geriatrics** 1990 Jul;45(7):48–52, 55–6 (18 ref.)
Plasma insulin, serum lipids and lipoproteins in gall stone disease in non-insulin dependent diabetic subjects: a case control study. Laakso M, et al. **Gut** 1990 Mar;31(3):344–7
Epidemiology and risk factors of macrovascular disease in diabetes mellitus. Janka HU. **Horm Metab Res Suppl** 1990; 22:8–11 (35 ref.)
Effects of alpha and beta adrenoceptor blocking drugs and ACE inhibitors on long term glucose and lipid control in hypertensive non-insulin dependent diabetics. Whitcroft IA, et al. **Horm Metab Res Suppl** 1990;22:42–6
Complications in 8793 cases of diabetes mellitus 14 years study in Bombay Hospital, Bombay, India. Patel JC. **Indian J Med Sci** 1989 Jul;43(7):177–83
Observations on complications in non-insulin dependent diabetes mellitus. Rao KV, et al. **Indian J Public Health** 1988 Jul–Sep;32(3):142–7
Ketanserin in chronic treatment of hypertension in type 2 diabetes mellitus. Fogari R, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 May;28(5):218–22
Exercise-induced silent ischemia: age, diabetes mellitus, previous myocardial infarction and prognosis. Callaham PR, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1175–80
Preoperative and perioperative anesthesia considerations for

the diabetic patient. Addante JB, et al.
J Am Podiatr Med Assoc 1990 Jun;80(6):319–22 (17 ref.)
Felodipine in type II diabetes mellitus. Capewell S, et al.
J Cardiovasc Pharmacol 1990;15 Suppl 4:S111
Is candidiasis the true cause of vulvovaginal irritation in women with diabetes mellitus? Rowe BR, et al.
J Clin Pathol 1990 Aug;43(8):644–5
Nonclostridial gas gangrene. Markantone SS, et al.
J Foot Surg 1989 May–Jun;28(3):213–6 (28 ref.)
Diabetic foot amputations. Part II: Metatarsal amputations. Sollitto RJ, et al. **J Foot Surg** 1990 Mar–Apr;29(2):135–40
Results of a phase IV study carried out with acipimox in type II diabetic patients with concomitant hyperlipoproteinaemia. Lavezzari M, et al.
J Int Med Res 1989 Jul–Aug;17(4):373–80
Autonomic neuropathy in type II diabetes mellitus: the influence of obesity [letter] Neil HA, et al.
J Intern Med 1990 Sep;228(3):293
Antihypertensive therapy with guanfacine induces elevated plasma growth hormone levels in diabetic patients. Coves MJ, et al. **J Med** 1989;20(3–4):291–6
Oral manifestations of previously undiagnosed non-insulin dependent diabetes mellitus. Gibson J, et al.
J Oral Pathol Med 1990 Jul;19(6):284–7
The pathology of diabetic hepatitis [letter; comment] Balázs M. **J Pathol** 1989 Dec;159(4):351–2 Comment on: J Pathol 1988 Oct;156(2):155–60.
Cardiovascular risk factors in confirmed prediabetic individuals. Does the clock for coronary heart disease start ticking before the onset of clinical diabetes? [see comments] Haffner SM, et al. **JAMA** 1990 Jun 6;263(21):2893–8 Comment in: JAMA 1990 Jun 6;263(21):2934.
Diabetes and schizophrenia [letter; comment] Gupta S.
Lancet 1989 Dec 23–30;2(8678–8679):1527 Comment on: Lancet 1989 Nov 18;2(8673):1214–5.
Disparities in incidence of diabetic end-stage renal disease according to race and type of diabetes [see comments] Cowie CC, et al. **N Engl J Med** 1989 Oct 19;321(16):1074–9 Comment in: N Engl J Med 1989 Oct 19;321(16):1121–2.
Emphysematous pyelonephritis: case report. Kwong T, et al. **N Z Med J** 1990 May 23;103(890):242–3
Angiotensin-converting enzyme inhibitors in diabetics with hypertension—a cautionary note [letter] Mohamed AS, et al. **Nephron** 1990;55(1):83–4
The treatment of hypertension in patients with diabetes mellitus [editorial] de Nobel E. **Neth J Med** 1989 Dec; 35(5–6):219–24 (44 ref.)
Hypertension in patients with diabetes mellitus: prevalence, aetiology and consequences. de Nobel E, et al.
Neth J Med 1989 Dec;35(5–6):267–75 (59 ref.)
Choroidal neovascularization after laser photocoagulation for diabetic macular edema. Lewis H, et al. **Ophthalmology** 1990 Apr;97(4):503–10; discussion 510–1
Visual field defects in patients with insulin-dependent and noninsulin-dependent diabetes. Trick GL, et al.
Ophthalmology 1990 Apr;97(4):475–82
Invasive external otitis caused by Aspergillus. Phillips P, et al. **Rev Infect Dis** 1990 Mar–Apr;12(2):277–81 (17 ref.)
Torulopsis glabrata fungemia in a diabetic patient. Connolly JP, et al. **South Med J** 1990 Mar;83(3):352–3
Effect of lipanthyl in hyperlipoproteinaemic diabetic patients. Hajós P, et al. **Ther Hung** 1989;37(3):138–43
Continuous ambulatory peritoneal dialysis in a diabetic patient with renal insufficiency and ventricular aneurysm. Miura M, et al. **Tokai J Exp Clin Med** 1989 Jun; 14(3):249–55
Coronary risk factors in type II diabetes: response to low-intensity aerobic exercise. Yeater RA, et al.
W V Med J 1990 Jul;86(7):287–90
Control of hypertension among diabetic patients. Sorokin G, et al. **Wis Med J** 1990 May;89(5):221–3
[Causes of death and prognosis of myocardial infarction in patients with diabetes] Qian RL, et al.
Chung Hua Nei Ko Tsa Chih 1989 Aug;28(8):469–72, 509 (Eng. Abstr.) **(Chi)**
[Risk factors for atherosclerosis in the early stages of diabetes] Dvořáková L. **Cas Lek Cesk** 1990 Feb 2;129(5):135–8 (Eng. Abstr.) **(Cze)**
[Hyperlipidemia in diabetes mellitus. Pathogenesis, diagnosis and drug therapy—a review] Johansen K.
Ugeskr Laeger 1990 Feb 26;152(9):584–8 (30 ref.) (Eng. Abstr.) **(Dan)**
[Light diabetes mellitus, severe sequelae] van Ballegooie E, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):265–7 **(Dut)**
[The prevalence of late complications of type II diabetes mellitus (published erratum appears in Ned Tijdschr Geneeskd 1990 Mar 10;134(10):512)] Verhoeven S, et al.
Ned Tijdschr Geneeskd 1990 Feb 10;134(6):283–7 (Eng. Abstr.) **(Dut)**
[Value of endomyocardial biopsy in congestive heart failure in diabetics without coronary disease] Valensi P, et al.
Ann Med Interne (Paris) 1989;140(6):473–6 (Eng. Abstr.) **(Fre)**
[Emphysematous pyelonephritis and perinephritis] Guillonneau B, et al. **Ann Urol (Paris)** 1989;23(6):512–6 (Eng. Abstr.) **(Fre)**
[1:1 auricular flutter with low-diastolic heart failure and cardiogenic shock in an elderly diabetic (type II) heart patient] Popovici D. **Endocrinologie** 1989 Oct–Dec; 27(4):265–71 **(Fre)**
[Macroangiopathy and type 2 diabetes mellitus: significance of Diamicron] Lesobre B.
Journ Annu Diabetol Hotel Dieu 1990;:325–34 (38 ref.) **(Fre)**
[An aid to the electrophysiological diagnosis of diabetic peripheral neuropathy] Doucet J, et al.
Neurophysiol Clin 1989 Aug;19(4):327–37 (Eng. Abstr.) **(Fre)**
[Diabetes mellitus and temporal arteritis (letter)] Seror P.
Presse Med 1990 Apr 7;19(14):674 **(Fre)**
[Microalbuminuria and diabetic nephropathy. Detection and correlation with other degenerative complications] Thivolet C, et al. **Presse Med** 1990 Jun 9;19(23):1075–80 (Eng. Abstr.) **(Fre)**
[Sclerodermia bullosa and diabetes mellitus. A case report] Pánková R, et al. **Dermatol Monatsschr** 1990;176(1):69–71 (Eng. Abstr.) **(Ger)**
[Treatment of hyperlipoproteinemia in patients with diabetes mellitus] Dammann HG, et al. **Fortschr Med** 1990 May 20;108(15):305–8 (0 ref.) (Eng. Abstr.) **(Ger)**
[Essential hypertension and diabetes mellitus] Dietze G, et al. **Fortschr Med** 1990 Feb 28;108(6):103–6 (40 ref.) (Eng. Abstr.) **(Ger)**
[Sex disorders in male diabetic patients] Neubauer M.
Fortschr Med 1990 Jun 30;108(19):381–3 (0 ref.) (Eng. Abstr.) **(Ger)**
[Hypertension and diabetes mellitus] Hasslacher C, et al.
Internist (Berl) 1990 Mar;31(3):180–90 (66 ref.) **(Ger)**
[Hypoglycemia in diabetes mellitus. Causes—sequelae—prevention] Müller-Esch G.
Internist (Berl) 1990 Mar;31(3):191–7 (61 ref.) **(Ger)**
[Spontaneous reversible anuria in occlusive jaundice with infection: hepatorenal syndrome or acute renal failure?] Neumann H, et al. **Internist (Berl)** 1990 Mar;31(3):243–5 **(Ger)**
[Autonomic neuropathy in diabetes mellitus: significance in the clinic and general practice] Nusser J, et al.
Internist (Berl) 1990 Mar;31(3):198–207 (113 ref.) **(Ger)**
[Hypoglycemia in type II diabetic patients] Bielefeldt K, et al. **Med Klin** 1990 Mar 15;85(3):117–20 (Eng. Abstr.) **(Ger)**
[A case from practice (154). 1. Renovascular hypertension. 2. Type II diabetes mellitus. 3. Grade II/b peripheral arterial occlusive disease] di Gallo A.
Schweiz Rundsch Med Prax 1989 Nov 21;78(47):1327–8 **(Ger)**
[Risk profile and macroangiopathy in type II diabetics in medical practice] Stiegler H, et al. **Vasa** 1990;19(2):119–28 (Eng. Abstr.) **(Ger)**
[Treatment of hyperlipidemia in diabetes mellitus and hypertension] Krone W. **Verh Dtsch Ges Inn Med** 1989; 95:636–8 **(Ger)**
[Surgical treatment of diabetic osteoarthropathy with severe dislocation] Toth K, et al. **Z Orthop** 1989 Nov–Dec; 127(6):701–5 (Eng. Abstr.) **(Ger)**
[Arterial hypertension in diabetes mellitus] Tiengo A.
G Clin Med 1990 Jan;71(1):3–6, 10–6 (55 ref.) **(Ita)**
[Photocoagulation in diabetes mellitus—our results] Stankiewicz A, et al. **Klin Oczna** 1989 Jul–Sep; 91(7–9):197–8 (Eng. Abstr.) **(Pol)**
[Evaluation of hearing in patients with diabetes] Krochmalska E, et al. **Otolaryngol Pol** 1989;43(1):45–51 (Eng. Abstr.) **(Pol)**
[Factors determining the presence and predicting the development of diabetic retinopathy] Kopczyński J, et al.
Pol Arch Med Wewn 1989 Aug–Sep;82(2–3):86–92 (Eng. Abstr.) **(Pol)**
[Monotherapy with acebutolol in hypertensive diabetic patients] Leowski J Jr, et al. **Pol Tyg Lek** 1990 Jan 1–15; 45(1–3):30–5 (Eng. Abstr.) **(Pol)**
[Hyperglycemic hyperosmolar nonketotic coma] Jaromczyk-Slisz J, et al. **Wiad Lek** 1990 Apr 15;43(8):360–4 (Eng. Abstr.) **(Pol)**
[Possibilities of hemosorption in the compensation of cardiac dysfunction in patients with ischemic heart disease associated with diabetes mellitus] Trusov VV, et al.
Kardiologiia 1990 Feb;30(2):58–61 (Eng. Abstr.) **(Rus)**
[Pulmonary tuberculosis and diabetes mellitus] Karachunskiĭ MA. **Probl Tuberk** 1990;(4):60–4 **(Rus)**
[The course of pulmonary tuberculosis associated with diabetes mellitus in middle-aged and elderly patients] Voloshin AA. **Probl Tuberk** 1990;(4):65–7 **(Rus)**
[Microangiopathies in diabetes mellitus types 1 and 2] Saltykov BB, et al. **Sov Med** 1989;(10):77–9 **(Rus)**
[The effect of laser irradiation on the functional state of the cardiovascular system in diabetes mellitus] Vernigorodskiĭ VS. **Sov Med** 1990;(3):62–4 **(Rus)**
[Characteristics of the course of odontogenic suppurative-inflammatory processes of the maxillofacial area in patients with insulin-dependent and insulin-independent diabetes mellitus] Meser A.
Stomatologiia (Mosk) 1989 Jul–Aug;68(4):41–4 (Eng. Abstr.) **(Rus)**
[The different clinical variants of scleroderma in diabetics] Khamaganova IV. **Ter Arkh** 1989;61(10):70–3 (Eng. Abstr.) **(Rus)**
[Treatment of patients with acute intestinal obstruction in diabetes mellitus] Duboshina TB, et al. **Vestn Khir** 1989 Sep;143(9):120–1 **(Rus)**
[Influence of diabetes mellitus in hospital emergencies] Martín Vaquero P, et al. **Rev Clin Esp** 1990 Mar; 186(4):151–4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

The patient with newly diagnosed diabetes mellitus. Fulcher G, et al. **Aust Fam Physician** 1990 Aug;19(8):1225–9, 1232–4
Initial signs and diagnosis of diabetes—special considerations of Oriental patients. Kitagawa T, et al.
Indian J Pediatr 1989 Nov–Dec;56 Suppl 1:S39–45
Autonomic neuropathy in non-insulin dependent (type II) diabetes mellitus. Possible influence of obesity. Bergström B, et al. **J Intern Med** 1990 Jan;227(1):57–63
Plasma plasmalogens of the phosphoethanolamine type and angiopathy in diabetic patients. Goto I, et al.
Klin Wochenschr 1990 Jan 4;68(1):49
[Diabetes and pregnancy—internal medicine aspects: expectations and facts] Mehnert H, et al.
Arch Gynecol Obstet 1989;245(1–4):272–8 **(Ger)**
[A case from practice (158). Type I diabetes in remission. Type II diabetes] Skoda C, et al.
Schweiz Rundsch Med Prax 1990 Jan 9;79(1–2):25–6 **(Ger)**
[Neonatal morbidity of children of diabetic mothers] Schoetzau A, et al. **Z Geburtshilfe Perinatol** 1990 Mar–Apr; 194(2):58–64 (Eng. Abstr.) **(Ger)**
[New diagnostic tests for diabetes mellitus. C-peptide and proinsulin] Matsuda A. **Nippon Rinsho** 1989 Nov; 47(11):2495–500 **(Jpn)**
[The physical work capacity of diabetics during rehabilitative treatment] Ivanushchak NI, et al. **Ter Arkh** 1990; 62(2):110–5 (Eng. Abstr.) **(Rus)**

DIET THERAPY

Insulin response and glycemic effects of meals in non-insulin-dependent diabetes. Cohen C, et al.
Am J Clin Nutr 1990 Sep;52(3):519–23
Dietary management of nursing home residents with non-insulin-dependent diabetes mellitus. Coulston AM, et al. **Am J Clin Nutr** 1990 Jan;51(1):67–71
Change in plasma acetate levels in diabetic subjects on mixed high fiber diets [see comments] Akanji AO, et al.
Am J Gastroenterol 1989 Nov;84(11):1365–70 Comment in: Am J Gastroenterol 1989 Nov;84(11):1362–3.
Effect of low fat-high carbohydrate diets in hypertensive patients with non-insulin-dependent diabetes mellitus. Fuh MM, et al. **Am J Hypertens** 1990 Jul;3(7):527–32
Relationship of insulin secretion and glycemic response to dietary intervention in non-insulin-dependent diabetes. Lomasky SJ, et al. **Arch Intern Med** 1990 Jan;150(1):169–72
Prediction of glucose response to weight loss in patients with non-insulin-dependent diabetes mellitus. Watts NB, et al.
Arch Intern Med 1990 Apr;150(4):803–6
Dietary management of geriatric diabetes. Mezitis NH, et al. **Geriatrics** 1989 Dec;44(12):70–2, 75–8 (27 ref.)
Very low calorie diet therapy in obese non-insulin dependent diabetes patients. Hanefeld M, et al. **Int J Obes** 1989;13 Suppl 2:33–7
Effects of very low calorie diet (VLCD) on body weight, blood glucose and serum lipid metabolism in severe obesity with glucose intolerance. Inoue S, et al. **Int J Obes** 1989; 13 Suppl 2:183–4
Long term effects of a very low calorie diet on metabolic control and cardiovascular risk factors in the treatment of obese non-insulin-dependent diabetics. Uusitupa M, et al.
Int J Obes 1989;13 Suppl 2:163–4
Effects of VLCD in obese NIDDM (non-insulin dependent diabetes) on glucose, insulin and C-peptide dynamics. Weck M, et al. **Int J Obes** 1989;13 Suppl 2:159–60
Food variety is associated with less macrovascular disease in those with type II diabetes and their healthy controls. Wahlqvist ML, et al. **J Am Coll Nutr** 1989 Dec;8(6):515–23
Educating patients with diabetes: comparison of nutrient-based and exchange group methods. Kendall PA, et al. **J Am Diet Assoc** 1990 Feb;90(2):238–43
Dietary supplementation with n-3 fatty acids may impair glucose homeostasis in patients with non-insulin-dependent diabetes mellitus. Vessby B, et al. **J Intern Med** 1990 Aug; 228(2):165–71
Fish intake and arterial wall characteristics in healthy people and diabetic patients [see comments] Wahlqvist ML, et al. **Lancet** 1989 Oct 21;2(8669):944–6 Comment in: Lancet 1989 Dec 2;2(8675):1332.
UK Prospective Diabetes Study 7: response of fasting plasma glucose to diet therapy in newly presenting type II diabetic patients, UKPDS Group. **Metabolism** 1990 Sep; 39(9):905–12
Long-term effects of dietary fructose on carbohydrate metabolism in non-insulin-dependent diabetes mellitus. Thorburn AW, et al. **Metabolism** 1990 Jan;39(1):58–63
Disease and the family: differences in metabolic control of diabetes mellitus between men and women. Mercado FJ, et al. **Women Health** 1989;15(4):111–21
[New knowledge of diet therapy of type 2 (non-insulin-dependent) diabetes] Bruns W.
Z Gesamte Inn Med 1990 May 15;45(10):290–4 (29 ref.) (Eng. Abstr.) **(Ger)**
[Semifasting and type II diabetes mellitus] Sinagra D.
Recenti Prog Med 1990 Feb;81(2):79–82 (11 ref.) (Eng. Abstr.) **(Ita)**
[Diet and non-insulin-dependent diabetes mellitus: historic and current perspectives] Fernández Soto ML, et al.
Rev Clin Esp 1990 Feb;186(3):131–3 (26 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Low dose metformin in the treatment of type II non-insulin-dependent diabetes: clinical and metabolic evaluations. Gregorio F, et al. **Acta Diabetol Lat** 1990 Apr-Jun;27(2):139-55

Comparative study of the therapeutic effects of glibenclamide or the fixed combination of glibenclamide-phenformin with those of gliclazide or chlorpropamide. Raptis AE, et al. **Acta Diabetol Lat** 1990 Jan-Mar;27(1):11-22

Hydroxychloroquine in decompensated, treatment-refractory noninsulin-dependent diabetes mellitus. A new job for an old drug? Quatraro A, et al. **Ann Intern Med** 1990 May 1;112(9):678-81

Persistent abnormalities in lipoprotein composition in noninsulin-dependent diabetes after intensive insulin therapy. Bagdade JD, et al. **Arteriosclerosis** 1990 Mar-Apr; 10(2):232-9

Effect of different insulin regimens on plasma lipoprotein and apolipoprotein concentrations in patients with non-insulin-dependent diabetes mellitus. Lindström T, et al. **Atherosclerosis** 1990 Mar;81(2):137-44

Patient education. Blood glucose monitoring at home. **Aust Fam Physician** 1990 Aug;19(8):1283-4

Increased responsiveness to exogenous insulin administration in the hyperglycemic obese person with type II diabetes. Clements RS Jr, et al. **Clin Ther** 1989 Sep-Oct;11(5):652-8

Multicenter comparison of glyburide and glipizide in the treatment of non-insulin-dependent diabetes mellitus. Kilo C. **Clin Ther** 1988;10(3):294-302

Deferoxamine therapy in high-ferritin diabetes. Cutler P. **Diabetes** 1989 Oct;38(10):1207-10

Insulin administration. **Diabetes Care** 1990 Jan;13 Suppl 1:28-31

Combination therapy with insulin and sulfonylureas for type II diabetes. Bailey TS, et al. **Diabetes Care** 1990 Jun; 13(6):687-95 (49 ref.)

Feasibility of adjustment of insulin dose by insulin-requiring type II diabetic patients. Floyd JC Jr, et al. **Diabetes Care** 1990 Apr;13(4):386-92

Fasting plus prandial insulin supplements improve insulin secretory ability in NIDDM subjects. Kawamori R, et al. **Diabetes Care** 1989 Nov-Dec;12(10):680-5

Combination insulin-sulfonylurea therapy. Lebovitz HE, et al. **Diabetes Care** 1990 Jun;13(6):667-75 (52 ref.)

Trends in treatment among unselected geographically defined diabetic population [letter; comment] Ratzmann KP, et al. **Diabetes Care** 1990 May;13(5):545-6 Comment on: Diabetes Care 1988 Jul-Aug;11(7):558-62.

Evening insulin strategy. Riddle MC. **Diabetes Care** 1990 Jun;13(6):676-86 (81 ref.)

C-peptide but not insulin concentrations are related to the serum lipoprotein levels during insulin treatment of non-insulin-dependent diabetes mellitus (NIDDM) patients. Vessby B, et al. **Diabetes Res** 1989 Nov; 12(3):109-16

The endogenous insulin secretion was suppressed during insulin therapy in NIDDM patients. Murayama Y, et al. **Diabetes Res Clin Pract** 1990 May-Jun;9(2):129-36

Effect of a new lente insulin on diabetics. Ohneda A, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):101-7

Insulin and sulphonylurea in the therapy of type 2 diabetes. Sotaniemi EA, et al. **Diabetes Res Clin Pract** 1990 Mar; 8(3):243-51

Xiaoke tea, a Chinese herbal treatment for diabetes mellitus. Hale PJ, et al. **Diabetic Med** 1989 Nov;6(8):675-6

Comparison of tolbutamide and metformin in elderly diabetic patients. Josephkutty S, et al. **Diabetic Med** 1990 Jul; 7(6):510-4

Effects of alpha-glucosidase inhibition and viscous fibre on diabetic control and postprandial gut hormone responses. Requejo F, et al. **Diabetic Med** 1990 Jul;7(6):515-20

Combination of insulin with glipizide increases peripheral glucose disposal in secondary failure type 2 diabetic patients. Simpson HC, et al. **Diabetic Med** 1990 Feb; 7(2):143-7

Omega-3 fatty acid supplementation in noninsulin-dependent diabetes. Lackey VA, et al. **DICP** 1990 Mar;24(3):258-60

Metabolic effects of biosynthetic human proinsulin in type 2 diabetes mellitus. Klauser R, et al. **Eur J Clin Invest** 1989 Oct;19(5):466-71

Renal effects of nicardipine, a calcium antagonist, in hypertensive type 2 (non-insulin-dependent) diabetic patients with and without nephropathy. Baba T, et al. **Eur J Clin Pharmacol** 1990;38(5):425-9

Reduction of postprandial blood glucose by the alpha-glucosidase inhibitor Miglitol (BAY m 1099) in type II diabetes. Heinz G, et al. **Eur J Clin Pharmacol** 1989; 37(1):33-6

Clinical studies with CE-inhibitors in diabetes. Rett K, et al. **Horm Metab Res Suppl** 1990;22:69-74 (38 ref.)

An evaluation of the therapeutic effects and dosage equivalence of glyburide and glipizide. Jaber LA, et al. **J Clin Pharmacol** 1990 Feb;30(2):181-8

Glipizide pharmacokinetics: effects of age, diabetes, and multiple dosing. Kradjan WA, et al. **J Clin Pharmacol** 1989 Dec;29(12):1121-7

V.A. Cooperative Study of antiplatelet agents in diabetic patients after amputation for gangrene: unobserved, sudden, and unexpected deaths. Colwell JA, et al. **J Diabetic Complications** 1989 Oct-Dec;3(4):191-7

Short-term effect of captopril and nifedipine on micro-albuminuria induced by exercise in hypertensive diabetic patients. Romanelli G, et al. **J Hypertens Suppl** 1989 Dec;7(6):S312-3

Angiotensin converting enzyme inhibition in normotensive type II diabetics with persistent mild proteinuria. Stornello M, et al. **J Hypertens Suppl** 1989 Dec;7(6):S314-5

An evaluation of ketanserin therapy for the hypertensive diabetic patient. Tooke JE, et al. **J Hypertens Suppl** 1989 Dec;7(6):S318-9

Nicotinic acid as therapy for dyslipidemia in non-insulin-dependent diabetes mellitus. Garg A, et al. **JAMA** 1990 Aug 8;264(6):723-6

Comparison of glycemic response and insulin requirements after mixed meals of equal carbohydrate content in healthy, type-1, and type-2 diabetic man. Schrezenmeir J, et al. **Klin Wochenschr** 1989 Oct 2;67(19):985-94

The treatment of noninsulin-dependent diabetes mellitus (NIDDM, type II DM) becomes more and more complex. Meinders AE, et al. **Neth J Med** 1990 Feb;36(1-2):39-42 (21 ref.)

Benfluorex action on metabolic control and insulin sensitivity in type 2 non-insulin dependent diabetics. Pasquali R, et al. **Panminerva Med** 1989 Jul-Sep;31(3):114-8

Sulphonylureas in the treatment of non-insulin-dependent diabetes. Ferner RE, et al. **Q J Med** 1989 Nov; 73(271):987-95 (96 ref.)

Flexible glibenclamide dosage in Nigerian diabetic patients. Udezue E. **Trop Doct** 1990 Apr;20(2):81-2

[Effect of ke-tang-Ling administration on the function of pancreatic islets cells in non-insulin-dependent diabetes mellitus] Wang Z, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):137-40, 130 (Eng. Abstr.) (Chi)

[Lactic acidosis associated with metformin] Lebech M, et al. **Ugeskr Laeger** 1990 Aug 27;152(35):2511-2 (Eng. Abstr.) (Dan)

[Lactic acidosis in connection with metformin therapy] Sestoft L. **Ugeskr Laeger** 1990 Aug 27;152(35):2471-2 (Dan)

[The treatment of diabetes mellitus in the elderly: pill or pen? (letter)] **Ned Tijdschr Geneeskd** 1989 Aug 26;133(34):1706 (Dut)

[Type 2 diabetes: treatment with a somatostatin analog? Endocrine and metabolic effects in healthy probands and patients with type 2 diabetes] Füessl HS. **Fortschr Med** 1989 Aug 20;107(24):509 (Ger)

[Pregnancy outcome with intensified insulin therapy in manifest diabetes] Crombach G, et al. **Geburtshilfe Frauenheilkd** 1990 Apr;50(4):263-9 (Eng. Abstr.) (Ger)

[Results of local thrombolysis with special reference to diabetic metabolism] Stiegler H, et al. **Med Klin** 1990 Apr 15;85(4):171-5, 228 (Eng. Abstr.) (Ger)

[Combination insulin and sulfonylurea compounds in the therapy of type II diabetes mellitus (editorial)] Diem P. **Schweiz Med Wochenschr** 1990 Jul 10;120(27-28):987-8 (16 ref.) (Ger)

[Insulin-sulfonylurea combination therapy in secondary therapy failure with sulfonylurea compounds. Randomized study between evening and morning intermediary insulin administration using the Novo Pen semi-automatic insulin injector] Stradner F, et al. **Schweiz Med Wochenschr** 1990 Jul 10;120(27-28):989-94 (Eng. Abstr.) (Ger)

[Are there problems in changing diabetic patients from animal to human insulin?] Fankhauser S, et al. **Ther Umsch** 1990 Jan;47(1):41-8 (Eng. Abstr.) (Ger)

[Combination therapy with sulfonylurea plus insulin in "secondary failure" of type 2 diabetes] Lotz N. **Ther Umsch** 1990 Jan;47(1):49-54 (9 ref.) (Eng. Abstr.) (Ger)

[Glucose sensors and insulin infusion systems--current technical status and future aspects] Pfeiffer EF. **Verh Dtsch Ges Inn Med** 1989;95:725-36 (13 ref.) (Ger)

[Renewal of oral therapy for diabetes mellitus after secondary failure] Guberman D. **Harefuah** 1989 Nov 1;117(9):240-1 (Eng. Abstr.) (Heb)

[Body mass index, blood lactate and therapeutic effectiveness of metformin in type II diabetes mellitus] Gregorio F, et al. **Medicina (Firenze)** 1989 Apr-Jun;9(2):200-4 (Eng. Abstr.) (Ita)

[Evaluation of the effectiveness and tolerability of gliquidone in the treatment of diabetes mellitus type II] Iori I, et al. **Riv Eur Sci Med Farmacol** 1989 Jun;11(3):277-83 (Eng. Abstr.) (Ita)

[Practical points in the use of insulin and oral hypoglycemic agents] Nakayama H. **Hokkaido Igaku Zasshi** 1989 Jul; 64(4):387-90 (Jpn)

[Effect of antidiabetics on post-exercise alaninemia in patients with non-insulin-dependent diabetes mellitus (type 2)] Czyżyk A, et al. **Pol Arch Med Wewn** 1989 Apr; 81(4):193-206 (Eng. Abstr.) (Pol)

[Effect of insulin sensitivity on the occurrence of early-morning hyperglycemia in patients treated with insulin] Krzymień J, et al. **Pol Arch Med Wewn** 1989 Mar; 81(3):176-82 (Eng. Abstr.) (Pol)

[Short-term subcutaneous infusion of insulin using a portable insulin pump in the treatment of diabetes mellitus] Krzymień J, et al. **Pol Arch Med Wewn** 1989 Apr; 81(4):214-22 (Eng. Abstr.) (Pol)

[Evaluation of the late ineffectiveness of sulfonylurea derivatives in patients with diabetes mellitus hospitalized at the Gastroenterology and Metabolic Disease Clinic, Medical Academy, in Warsaw 1976-1987] Pacula P, et al. **Pol Arch Med Wewn** 1989 Apr;81(4):231-9 (Eng. Abstr.) (Pol)

[Insulinotherapy] Carrilho FM, et al. **Acta Med Port** 1989 Sep;Suppl 1:19S-23S (15 ref.) (Eng. Abstr.) (Por)

[Sulfonylureas] Sagreira L. **Acta Med Port** 1989 Sep;Suppl 1:9S-13S (20 ref.) (Eng. Abstr.) (Por)

[Current aspects of the antituberculer chemotherapy of new patients with tuberculosis and diabetes mellitus] Ghinescu V, et al. **Rev Ig [Pneumoftiziol]** 1989 Apr-Jun;38(2):115-26 (Eng. Abstr.) (Rum)

[The effect of a plant mixture on the metabolic equilibrium in patients with type-2 diabetes mellitus] Ionescu-Tîrgovişte C, et al. **Rev Med Interna [Med Interna]** 1989 Mar-Apr;41(2):185-92 (Eng. Abstr.) (Rum)

[Spectrum of erythrocyte membrane lipids in various types of hypoglycemic therapy] Kozlov GS, et al. **Sov Med** 1990; (6):10-3 (Eng. Abstr.) (Rus)

ECONOMICS

The economic costs of non-insulin-dependent diabetes mellitus. Huse DM, et al. **JAMA** 1989 Nov 17; 262(19):2708-13

Hospitalizations for patients with diabetes mellitus: changing perspectives. Weinberger M. **Mayo Clin Proc** 1990 Sep; 65(9):1268-71

[Comment on the article by R. Petzoldt, Bad Oeynhausen: "Cost control in drug therapy of diabetes"] Ostendorf GM. **Versicherungsmedizin** 1989 Nov 1;41(6):203-4 (Ger)

ENZYMOLOGY

Insulin-sensitive tyrosine kinase: relationship with in vivo insulin action in humans. Nyomba BL, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):E964-74

Postreceptor effects of sulfonylurea on skeletal muscle glycogen synthase activity in type II diabetic patients. Bak JF, et al. **Diabetes** 1989 Nov;38(11):1343-50

Serum angiotensin converting enzyme activity in type 2 (non-insulin-dependent) diabetic patients with chronic glomerulonephritis. Ninomiya Y, et al. **Diabetes Res** 1989 Jul;11(3):121-4

Effect of aldose reductase inhibitor (Ponalrestat) on erythrocyte Na,K-ATPase activity in non-insulin-dependent diabetic patients with polyneuropathy. Umeda F, et al. **Diabetes Res** 1989 Nov; 12(3):125-9

Erythrocytes from diabetics with neuropathy have fewer sodium pumps. Noda K, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):177-81

Abnormal Ca2(+)-ATPase activity in erythrocytes of non-insulin-dependent diabetic rats. Levy J, et al. **Horm Metab Res** 1990 Mar;22(3):136-40

Abnormal insulin receptor tyrosine kinase activity in kidney basolateral membranes from non-insulin-dependent diabetic rats. Grunberger G, et al. **J Lab Clin Med** 1990 Jun;115(6):704-11

Effects of food restriction and insulin treatment on (Ca2+ + Mg2+)-ATPase response to insulin in kidney basolateral membranes of noninsulin-dependent diabetic rats. Levy J, et al. **Metabolism** 1990 Jan;39(1):25-33

Acid cholesteryl ester hydrolase activity of mononuclear leukocyte in type 2 (non-insulin-dependent) diabetic patients. Onuma T, et al. **Tohoku J Exp Med** 1990 Apr; 160(4):375-81

[Increase of serum gamma-glutamyl transferase activity in diabetic patients is not linked to diabetes itself] Barbieux JP, et al. **Pathol Biol (Paris)** 1990 Feb;38(2):93-8 (Eng. Abstr.) (Fre)

EPIDEMIOLOGY

Cardiovascular risk factors and impaired glucose tolerance: the San Luis Valley Diabetes Study. Burchfiel CM, et al. **Am J Epidemiol** 1990 Jan;131(1):57-70

Weight as a risk factor for clinical diabetes in women. Colditz GA, et al. **Am J Epidemiol** 1990 Sep;132(3):501-13

Cardiovascular disease risk factors prior to the diagnosis of impaired glucose tolerance and non-insulin-dependent diabetes mellitus in a community of older adults. McPhillips JB, et al. **Am J Epidemiol** 1990 Mar;131(3):443-53

Prevalence of diabetes mellitus among Indian children in Manitoba. Dean H, et al. **Arctic Med Res** 1988;47 Suppl 1:532-4

High prevalence of NIDDM and impaired glucose tolerance in Indian, Creole, and Chinese Mauritians. Mauritius Noncommunicable Disease Study Group. Dowse GK, et al. **Diabetes** 1990 Mar;39(3):390-6

Population-based study of impaired glucose tolerance and type II diabetes in Wadena, Minnesota. French LR, et al. **Diabetes** 1990 Sep;39(9):1131-7

Incidence of type II diabetes in Mexican Americans predicted by fasting insulin and glucose levels, obesity, and body-fat distribution. Haffner SM, et al. **Diabetes** 1990 Mar; 39(3):283-8

Effect of socioeconomic status on hyperglycemia and retinopathy levels [letter; comment] Raheja BS, et al. **Diabetes Care** 1990 Jan;13(1):81-2 Comment on: Diabetes Care 1989 Feb;12(2):128-34.

Noninsulin-dependent diabetes mellitus in black and white Americans. Harris MI. **Diabetes Metab Rev** 1990 Mar; 6(2):71-90 (17 ref.)

Type II diabetes and its complications in Mexican Americans.

Stern MP, et al. **Diabetes Metab Rev** 1990 Feb;6(1):29–45 (86 ref.)

The epidemiology and natural history of NIDDM—lessons from the South Pacific. Zimmet P, et al. **Diabetes Metab Rev** 1990 Mar;6(2):91–124 (168 ref.)

Epidemiology, obesity, and non-insulin-dependent diabetes mellitus. Barrett-Connor E. **Epidemiol Rev** 1989;11:172–81 (52 ref.)

Epidemiology and public health aspects of non-insulin-dependent diabetes mellitus. Jarrett RJ. **Epidemiol Rev** 1989;11:151–71 (157 ref.)

Diabetes mellitus in geriatric females. Mishra VN, et al. **J Indian Med Assoc** 1989 Jun;87(6):138–9

Diabetes mellitus on the Zambian Copperbelt. Rolfe M, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):255–9

Diabetes in Papua New Guinea [letter; comment] Bradley PJ. **Med J Aust** 1989 Dec 4–18;151(11–12):720–1 Comment on: Med J Aust 1989 Aug 21;151(4):204–10.

Insulin-treated diabetes in Tasmania: population-based clinical characteristics and their possible implications for diabetic health care in Australia. King H, et al. **Med J Aust** 1989 Oct 16;151(8):444, 446, 448, 450

Progress of impaired glucose tolerance to diabetes mellitus among Niueans. Tukuitonga CF. **N Z Med J** 1990 Jul 25; 103(894):351–3

Similar risks of nephropathy in patients with type I or type II diabetes mellitus. Hasslacher C, et al. **Nephrol Dial Transplant** 1989;4(10):859–63

Rural/urban differences of diabetes—impaired glucose tolerance, hypertension, obesity, glycosolated haemoglobin, nutritional proteins, fasting cholesterol and apolipoproteins in Fijian Melanesians over 40. Russell-Jones DL, et al. **Q J Med** 1990 Jan;74(273):75–81

Increased incidence of renal failure associated with type II diabetes in blacks [letter] Haas S, et al. **S D J Med** 1990 Jul;43(7):13–4

Geographical distribution of diabetes among the native population of Canada: a national survey. Young TK, et al. **Soc Sci Med** 1990;31(2):129–39

[Prognosis for requirements for oral antidiabetic agents in Bohemia] Hauser F, et al. **Cas Lek Cesk** 1990 Feb 2; 129(5):129–34 (Eng. Abstr.) **(Cze)**

[Type-IIc diabetes: ten times more frequent as hitherto assumed? (letter)] Ledermann H, et al. **Dtsch Med Wochenschr** 1990 Aug 31;115(35):1332–3 **(Ger)**

[Non-insulin-dependent diabetes in childhood] Otani T, et al. **Nippon Rinsho** 1989 Nov;47(11):2565–8 **(Jpn)**

[Several clinico-epidemiologic aspects of diabetes mellitus] García de Alba J, et al. **Salud Publica Mex** 1989 Sep–Oct; 31(5):669–73 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Racial differences in the incidence of end-stage renal disease in types I and II diabetes mellitus. Stephens GW, et al. **Am J Kidney Dis** 1990 Jun;15(6):562–7

Prevalence of abnormal glucose tolerance in six Solomon Islands populations. Beizer RA. **Am J Phys Anthropol** 1990 Apr;81(4):471–82

Asian diabetics attending a British hospital clinic: a pilot study to evaluate their care. Hawthorne K. **Br J Gen Pract** 1990 Jun;40(335):243–7

Low incidence of fatal coronary heart disease in Pima Indians despite high prevalence of non-insulin-dependent diabetes. Nelson RG, et al. **Circulation** 1990 Mar;81(3):987–95

Prevalence and risk factors of diabetic retinopathy in non-Hispanic whites and Hispanics with NIDDM. San Luis Valley Diabetes Study. Hamman RF, et al. **Diabetes** 1989 Oct;38(10):1231–7

ETIOLOGY

Cardiovascular risk factors and the 25-year incidence of diabetes mellitus in middle-aged men. The Zutphen Study. Feskens EJ, et al. **Am J Epidemiol** 1989 Dec;130(6):1101–8

Canine IAPP cDNA sequence provides important clues regarding diabetogenesis and amyloidogenesis in type 2 diabetes. Jordan K, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):502–8

Aetiology of non-insulin dependent diabetes. Taylor R. **Br Med Bull** 1989 Jan;45(1):73–91 (90 ref.)

Hypertension: a metabolic disorder? Ferrannini E, et al. **Diabete Metab** 1989;15(5 Pt 2):284–91 (45 ref.)

Nature and nurture in the etiology of type 2 diabetes mellitus in Japanese Americans. Fujimoto WY, et al. **Diabetes Metab Rev** 1989 Nov;5(7):607–25 (106 ref.)

Incidence of diabetes during antihypertensive treatment. Bengtsson C. **Horm Metab Res Suppl** 1990;22:38–42

Significance of the Randle-Mechanism in the etiology of diabetes type II. Felber JP. **Horm Metab Res Suppl** 1990; 22:11–7 (13 ref.)

Upper body adiposity and the risk for atherosclerosis. Van Gaal LF, et al. **J Am Coll Nutr** 1989 Dec;8(6):504–14 (48 ref.)

When does diabetes start? [editorial; comment] Saudek CD. **JAMA** 1990 Jun 6;263(21):2934 Comment on: **JAMA** 1990 Jun 6;263(21):2893–8.

Amylinamide, bone conservation, and pancreatic beta cells. MacIntyre I. **Lancet** 1989 Oct 28;2(8670):1026–7

The effect of parity on the later development of diabetes [letter; comment] Boyko EJ. **N Engl J Med** 1990 May 3; 322(18):1320 Comment on: **N Engl J Med** 1989 Nov 2;321(18):1214–9.

The effect of parity on the later development of non-insulin-dependent diabetes mellitus or impaired glucose tolerance [see comments] Kritz-Silverstein D, et al. **N Engl J Med** 1989 Nov 2;321(18):1214–9 Comment in: N Engl J Med 1990 May 3;322(18):1320.

[Status of diabetes in Ethiopia as a contribution to tropical diabetes mellitus] Dabels J, et al. **Z Gesamte Inn Med** 1990 Jan 15;45(2):47–9 (Eng. Abstr.) **(Ger)**

[Possible pathogenesis of non-insulin dependent diabetes mellitus] Kanazawa Y. **Nippon Rinsho** 1989 Nov; 47(11):2461–6 **(Jpn)**

GENETICS

Normal insulin-receptor cDNA sequence in Pima Indians with NIDDM. Moller DE, et al. **Diabetes** 1989 Nov; 38(11):1496–500

Mutations in insulin-receptor gene in insulin-resistant patients. Taylor SI, et al. **Diabetes Care** 1990 Mar; 13(3):257–79 (127 ref.)

Analysis of the pro-opiomelanocortin gene in non-insulin dependent diabetic families. O'Rahilly S, et al. **Diabetes Res** 1989 Mar;10(3):125–8

Defective insulin-mediated splanchnic glucose regulation and glucose clearance: early glucose homeostatic defects in nondiabetic, young offspring of patients with noninsulin-dependent diabetes mellitus. Osei K. **Diabetes Res** 1989 Sep;12(1):7–13

Hep-G2 glucose transporter gene polymorphism in Caucasian, black, Hispanic and Japanese patients with NIDDM. Murakami K, et al. **Diabetes Res Clin Pract** 1990 May-Jun;9(2):115–21

Development of carbohydrate intolerance in offspring of Asian Indian conjugal type 2 diabetic parents. Ramachandran A, et al. **Diabetes Res Clin Pract** 1990 Mar; 8(3):269–73

A Chinese family with non-insulin-dependent diabetes of early onset and severe diabetic complications. Chan JC, et al. **Diabetic Med** 1990 Mar-Apr;7(3):211–4

Insulin insensitivity in offspring of parents with type 2 diabetes mellitus. Ho LT, et al. **Diabetic Med** 1990 Jan; 7(1):31–4

Islet function and insulin sensitivity in the non-diabetic offspring of conjugal type 2 diabetic patients. Johnston C, et al. **Diabetic Med** 1990 Feb;7(2):119–25

Decreased insulin sensitivity in offspring whose parents both have type 2 diabetes. Ramachandran A, et al. **Diabetic Med** 1990 May;7(4):331–4

Genetic studies of type 2 (non-insulin-dependent) diabetes mellitus: lack of association with seven genetic markers. Iyengar S, et al. **Diabetologia** 1989 Sep;32(9):690–3

Familial predisposition to renal disease in two generations of Pima Indians with type 2 (non-insulin-dependent) diabetes mellitus. Pettitt DJ, et al. **Diabetologia** 1990 Jul; 33(7):438–43

Genetic epidemiology of non-insulin-dependent diabetes mellitus (NIDDM) in north India: distribution of Gm and Km allotypes in 'Punjabis'. Gill PS, et al. **Dis Markers** 1990 Mar-Apr;8(2):59–67

Glucose-induced thermogenesis in obese subjects with or without familial history of obesity. Verga S, et al. **Eur J Clin Nutr** 1990 May;44(5):397–404

On the role of vitamin D binding globulin in glucose homeostasis: results from the San Luis Valley Diabetes Study. Iyengar S, et al. **Genet Epidemiol** 1989;6(6):691–8

Increased risk for gestational diabetes mellitus associated with insulin receptor and insulin-like growth factor II restriction fragment length polymorphisms. Ober C, et al. **Genet Epidemiol** 1989;6(5):559–69

Type 2 diabetes, impaired glucose tolerance, and hypertension in offspring of migrants and the structure of the population of origin. Leonetti DL, et al. **Hum Biol** 1989 Jun;61(3):369–86

Family resemblance for glucose tolerance in a Melanesian population, the Tolai. King H, et al. **Hum Hered** 1989; 39(4):212–7

Restriction site polymorphisms at the human HepG2 glucose transporter gene locus in Caucasian and west Indian subjects with non-insulin-dependent diabetes mellitus. Li SR, et al. **Hum Hered** 1990;40(1):38–44

Abnormalities in insulin response to intravenous glucose in offspring of conjugal (type 2) diabetic parents. Ramachandran A, et al. **J Assoc Physicians India** 1990 Apr; 38(4):265–7

Molecular cloning and DNA sequence analysis of preproinsulin genes in the NON mouse, an animal model of human non-obese, non-insulin-dependent diabetes mellitus. Sawa T, et al. **J Mol Endocrinol** 1990 Aug; 5(1):61–7

Study of family history among parents and siblings of Ethiopian diabetics: a preliminary report. Mengesha B, et al. **J Trop Med Hyg** 1990 Feb;93(1):39–41

NIDDM enigma. **Lancet** 1990 May 19;335(8699):1187–8 (21 ref.)

Thrifty genotype rendered detrimental by progress? **Lancet** 1989 Oct 7;2(8667):839–40 (16 ref.)

Future glucose intolerance possibly manifest in youth [letter] King H, et al. **Lancet** 1989 Nov 4;2(8671):1098–9

Molecular and functional characterization of amylin, a peptide associated with type 2 diabetes mellitus. Roberts AN, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):9662–6

[New findings in the genetics of type II diabetes] Jirkovská A. **Cas Lek Cesk** 1989 Sep 29;128(40):1249–53 (Eng. Abstr.) **(Cze)**

[Hyperlipoproteinemia and the genetic epidemiology of diabetes mellitus] Sobra J, et al. **Cas Lek Cesk** 1989 Dec 8;128(50):1575–9 (Eng. Abstr.) **(Cze)**

[Diabetes type in families with children of diabetic mothers] Dvořáková L, et al. **Cesk Pediatr** 1989 Jul;44(7):389–93 (Eng. Abstr.) **(Cze)**

[Genetic determinants of diabetes mellitus] Tillil H, et al. **Internist (Berl)** 1989 Sep;30(9):536–46 (50 ref.) **(Ger)**

[Insulin resistant diabetes] Ebina Y. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):861–4 **(Jpn)**

[Genetic aspects of diabetes mellitus] Davidenkova EF, et al. **Klin Med (Mosk)** 1990 Jan;68(1):7–14 (58 ref.) **(Rus)**

IMMUNOLOGY

Receptor-mediated endocytosis of insulin: inhibition of [125I]iodoinsulin internalization in insulin resistant diabetic states of man. Grunberger G, et al. **Acta Endocrinol (Copenh)** 1989 Oct;121(4):581–6

Protamine antibody production in diabetic subjects treated with NPH insulin. Ellerhorst JA, et al. **Am J Med Sci** 1990 May;299(5):298–301

Transglutaminase-dependent lymphocyte transformation in type 2 diabetes mellitus. Berntorp K, et al. **Diabetes Res** 1989 Apr;10(4):171–4

Thymopentin administration and increase of sero-conversion after B-hepatitis vaccine in diabetic patients. Pagani S, et al. **Diabetes Res** 1989 Dec;12(4):199–201

Antithyroid and other organ-specific antibodies in Saudi Arab diabetic and normal children. Abdullah MA, et al. **Diabetic Med** 1990 Jan;7(1):50–2

Immunity in diabetes mellitus [letter] Narang NK, et al. **J Assoc Physicians India** 1989 Sep;37(9):614

Changes in phagocytic function with glycaemic control in diabetic patients. MacRury SM, et al. **J Clin Pathol** 1989 Nov;42(11):1143–7

Comparative study of insulin antibodies in diabetic patients with primary insulin-dependence (type I) and secondary insulin-dependence (type II). Ionescu-Tîrgovişte C, et al. **Med Interne** 1989 Oct-Dec;27(4):303–11

Cell-mediated and humoral immune response in diabetic patients with periodontitis. Anil S, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):44–8

Immunological aspects of diabetes. Cheta D. **Recenti Prog Med** 1990 Feb;81(2):72–8 (68 ref.)

Opsonophagocytosis of Staphylococcus aureus by diabetics' sera and monocytes. Chou MY, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):352–9

Immunogenicity of highly purified porcine and human insulins in diabetic patients with high titers of insulin antibody. Lam HC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):346–51

Detection of liver membrane antibodies in patients with non-insulin-dependent diabetes mellitus. Iijima T, et al. **Trop Gastroenterol** 1990 Jan-Mar;11(1):34–8

[Study of lymphocyte subpopulations and the expression of activation markers in diabetes mellitus types 1 and 2] Salozhin KV, et al. **Klin Med (Mosk)** 1989 Oct; 67(10):118–21 (Eng. Abstr.) **(Rus)**

[Antigens of the HLA system in different types of diabetes mellitus] Berkos AS, et al. **Probl Endokrinol (Mosk)** 1990 Jan-Feb;36(1):3–8 (Eng. Abstr.) **(Rus)**

[Clinico-immunologic aspects of diabetes mellitus] Esenin VI, et al. **Sov Med** 1990;(3):100–1 **(Rus)**

[The functional activity and count of the natural killer cells in patients with recently diagnosed diabetes mellitus types I and II] Salozhin KV, et al. **Ter Arkh** 1989;61(10):104–6 (Eng. Abstr.) **(Rus)**

[Quantitative changes of the blood serum immunoglobulins in patients with diabetes mellitus types I and II and microangiopathy detected by morphologic study] Saltykov BB, et al. **Ter Arkh** 1990;62(4):111–4 (Eng. Abstr.) **(Rus)**

METABOLISM

Effect of prolonged overnight fasting on energy metabolism in non-insulin-dependent diabetic and non-diabetic subjects. Groop LC, et al. **Acta Endocrinol (Copenh)** 1990 Jul;123(1):30–6

Differential effect of protein and fat ingestion on blood glucose responses to high- and low-glycemic-index carbohydrates in noninsulin-dependent diabetic subjects. Gulliford MC, et al. **Am J Clin Nutr** 1989 Oct;50(4):773–7

Lipid metabolism in non-insulin-dependent diabetes: effects of long-term treatment with fructose-supplemented mixed meals. Thorburn AW, et al. **Am J Clin Nutr** 1989 Nov; 50(5):1015–22

Diet of second-generation Japanese-American men with and without non-insulin-dependent diabetes. Tsunehara CH, et al. **Am J Clin Nutr** 1990 Oct;52(4):731–8

Effects of glyburide on carbohydrate metabolism and insulin action in the liver. Caro JF. **Am J Med** 1990 Aug 20; 89(2A):17S–25S; discussion 51S–53S (59 ref.)

Role of cellular calcium metabolism in abnormal glucose metabolism and diabetic hypertension. Levy J, et al. **Am J Med** 1989 Dec 8;87(6A):7S–16S (139 ref.)

Effect of glyburide on hepatic glucose metabolism. McGuinness OP; discussion 51S–53S, et al. **Am J Med** 1990 Aug 20;89(2A):26S–37S (58 ref.)

Effect of glyburide on beta cell responsiveness to glucose in non-insulin-dependent diabetes mellitus. O'Meara NM, et al. **Am J Med** 1990 Aug 20;89(2A):11S-16S; discussion 51S-53S (39 ref.)

Carbohydrate tolerance improves with fasting in obese subjects with noninsulin-dependent (type II) diabetes. Watts NB, et al. **Am J Med Sci** 1990 Apr;299(4):250-6

Energy expenditure in humans: effects of dietary fat and carbohydrate. Abbott WG, et al. **Am J Physiol** 1990 Feb; 258(2 Pt 1):E347-51

Effect of 75 g oral glucose on fructosamine and glycated haemoglobin concentrations. Atabani GS, et al. **Ann Clin Biochem** 1990 May;27 (Pt 3):270-1

Contribution of gluconeogenesis to overall glucose output in diabetic and nondiabetic men. Consoli A, et al. **Ann Med** 1990 Jun;22(3):191-5

Evidence for a primary role of insulin resistance in the pathogenesis of type 2 diabetes. Yki-Järvinen H. **Ann Med** 1990 Jun;22(3):197-200

Effect of pentoxifylline on carbohydrate metabolism in type II diabetics [letter] Ambrus JL, et al. **Arch Intern Med** 1990 Apr;150(4):921

"Portal" adipose tissue as a generator of risk factors for cardiovascular disease and diabetes. Björntorp P. **Arteriosclerosis** 1990 Jul-Aug;10(4):493-6

Effects of pioglitazone on glucose and lipid metabolism in Wistar fatty rats. Sugiyama Y, et al. **Arzneimittelforschung** 1990 Mar;40(3):263-7

Defective sarcolemmal phosphorylation associated with noninsulin-dependent diabetes. Allo SN, et al. **Biochim Biophys Acta** 1990 Apr 13;1023(2):206-12

Amylin and the amylin gene: structure, function and relationship to islet amyloid and to diabetes mellitus. Cooper GJ, et al. **Biochim Biophys Acta** 1989 Dec 14; 1014(3):247-58 (87 ref.)

Pharmacokinetic and pharmacodynamic studies of glibenclamide in non-insulin dependent diabetes mellitus. Coppack SW, et al. **Br J Clin Pharmacol** 1990 Jun; 29(6):673-84

Insulin and glucagon degradation in liver are not affected by hepatic cirrhosis. Antoniello S, et al. **Clin Chim Acta** 1989 Aug 31;183(3):343-50

Errors inherent in the primed infusion method for the measurement of the rate of glucose appearance in man when uptake is not forced by glucose or insulin infusion. Heath DF. **Clin Sci** 1990 Sep;79(3):201-13

Physiological levels of plasma non-esterified fatty acids impair forearm glucose uptake in normal man. Walker M, et al. **Clin Sci** 1990 Aug;79(2):167-74

Operation of Randle's cycle in patients with NIDDM. Bevilacqua S, et al. **Diabetes** 1990 Mar;39(3):383-9

IGF-I--stimulated glucose transport in human skeletal muscle and IGF-I resistance in obesity and NIDDM. Dohm GL, et al. **Diabetes** 1990 Sep;39(9):1028-32

Effect of insulin on glucose utilization in epitrochlearis muscle of rats with streptozocin-induced NIDDM. Karl IE, et al. **Diabetes** 1990 Sep;39(9):1106-15

Increased basal glucose production and utilization in nondiabetic first-degree relatives of patients with NIDDM. Osei K. **Diabetes** 1990 May;39(5):597-601

Evidence against altered expression of GLUT1 or GLUT4 in skeletal muscle of patients with obesity or NIDDM. Pedersen O, et al. **Diabetes** 1990 Jul;39(7):865-70

Hyperproinsulinemia and amyloid in NIDDM. Clues to etiology of islet beta-cell dysfunction? Porte D Jr, et al. **Diabetes** 1989 Nov;38(11):1333-6 (29 ref.)

Effect of streptozocin-induced diabetes on insulin-receptor tyrosine kinase activity in obese Zucker rats. Slieker LJ, et al. **Diabetes** 1990 May;39(5):619-25

Effect of insulin therapy on metabolic fate of apolipoprotein B-containing lipoproteins in NIDDM. Taskinen MR, et al. **Diabetes** 1990 Sep;39(9):1017-27

The influence of zinc supplementation on glucose homeostasis in NIDDM. Raz I, et al. **Diabetes Res** 1989 Jun;11(2):73-9

Diurnal variation in glucose and leucine metabolism in non-insulin-dependent diabetes. Umpleby AM, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):89-96

Carbohydrate digestion and release of pancreatic polypeptide in health and diabetes mellitus. Layer P, et al. **Gut** 1989 Sep;30(9):1279-84

Enzyme-specific activities and mineral concentrations of the exocrine pancreas from female SHR/N-corpulent (cp) rats. Lewis CG, et al. **J Am Coll Nutr** 1989 Dec;8(6):608-16

[3H]myoinositol incorporation into phospholipids in liver microsomes from humans with and without type II diabetes. The lack of synthesis of glycosylphosphatidylinositol, precursor of the insulin mediator inositol phosphate glycan. Thakkar JK, et al. **J Biol Chem** 1990 Apr 5;265(10):5475-81

Hemodynamic, renal, and humoral effects of the calcium entry blocker nicardipine and converting enzyme inhibitor captopril in hypertensive type II diabetic patients with nephropathy. Stornello M, et al. **J Cardiovasc Pharmacol** 1989 Dec;14(6):851-5

Effects of dietary carbohydrates on metabolism of calcium and other minerals in normal subjects and patients with noninsulin-dependent diabetes mellitus. Garg A, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1007-13

Effects of weight loss and reduced hyperglycemia on the kinetics of insulin secretion in obese non-insulin dependent diabetes mellitus. Gumbiner B, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1594-602

Effect of a high-carbohydrate, low-saturated-fat diet on apolipoprotein B and triglyceride metabolism in Pima Indians. Abbott WG, et al. **J Clin Invest** 1990 Aug; 86(2):642-50

Intracellular glucose oxidation and glycogen synthase activity are reduced in non-insulin-dependent (type II) diabetes independent of impaired glucose uptake. Thorburn AW, et al. **J Clin Invest** 1990 Feb;85(2):522-9

Hyperglycemia, ketosis and mild metabolic acidosis in two patients subsequently found not to require insulin. O'Dell ML. **Kans Med** 1990 Feb;91(2):40-3

Clinical application of hair protein glycation in the assessment of blood glucose control and diabetic neuropathy. Masuta S, et al. **Kobe J Med Sci** 1989 Feb;35(1):1-9

Accumulation of fibronectin in aortas from diabetic patients. A quantitative immunohistochemical and biochemical study. Rasmussen LM, et al. **Lab Invest** 1989 Oct; 61(4):440-6

Amniotic fluid prolactin in the third trimester of pregnancies complicated by gestational or pregestational diabetes mellitus. Bybee DE, et al. **Metabolism** 1990 Jul;39(7):714-8

Effects of ketone bodies on carbohydrate metabolism in non-insulin-dependent (type II) diabetes mellitus. Henry RR, et al. **Metabolism** 1990 Aug;39(8):853-8

Differential effect of type I and type II diabetes mellitus on antipyrine elimination. Adithan C, et al. **Methods Find Exp Clin Pharmacol** 1989 Dec;11(12):755-8

Where all the glucose doesn't go in non-insulin-dependent diabetes mellitus [editorial; comment] Bogardus C, et al. **N Engl J Med** 1990 Jan 25;322(4):262-3 Comment on: N Engl J Med 1990 Jan 25;322(4):223-8.

Quantitation of muscle glycogen synthesis in normal subjects and subjects with non-insulin-dependent diabetes by 13C nuclear magnetic resonance spectroscopy [see comments] Shulman GI, et al. **N Engl J Med** 1990 Jan 25;322(4):223-8 Comment in: N Engl J Med 1990 Jan 25;322(4):262-3.

Abnormal regulation by glucose of somatostatin secretion in the perfused pancreas of NIDDM rats. Ostenson CG, et al. **Pancreas** 1990 May;5(3):347-53

Effect of dietary carbohydrates on insulin and glucagon receptors in a new model of noninsulin-dependent diabetes-SHR/N-corpulent rat. Bhathena SJ, et al. **Proc Soc Exp Biol Med** 1989 Oct;192(1):66-71

Increased renal TXA2 synthesis in diabetes mellitus: simultaneous determination of urinary TXB2 and 2,3-dinor-TXB2. Katayama S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jan; 39(1):47-51

Metabolic control and amputations among diabetics in primary health care--a population-based intensified programme governed by patient education. Falkenberg M. **Scand J Prim Health Care** 1990 Mar;8(1):25-9

Metabolic evaluation of non-insulin-dependent diabetes in primary health care--the clinical usefulness of glycated haemoglobin measurements. Larsen ML, et al. **Scand J Prim Health Care** 1989 Oct;7(3):167-71

The role of amylin in the insulin resistance of non-insulin-dependent diabetes mellitus. Leighton B, et al. **Trends Biochem Sci** 1990 Aug;15(8):295-9 (38 ref.)

[Insulin receptors in diabetes mellitus] Tankova Ts. **Vutr Boles** 1989;28(6):8-12 (20 ref.) (Bul)

[Investigation of the effect of a diet with wheat bran on the metabolic balances of Zn, Cu, Ca and Mg in diabetics] Liu ZQ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec; 28(12):741-4, 769 (Eng. Abstr.) (Chi)

[The insulin receptor] de Vries CP, et al. **Ned Tijdschr Geneeskd** 1990 May 5;134(18):891-5 (Dut)

[Regulation of glucose metabolism during exercise and after exercise in normal and diabetic subjects] Girard J. **Journ Annu Diabetol Hotel Dieu** 1990;:141-58 (56 ref.) (Fre)

[Sugar diabetes mellitus and physical exercise] Horton ES, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:335-47 (39 ref.) (Fre)

[Eating before, during and after physical exercise in normal and diabetic subjects] Jandrain B, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:159-70 (74 ref.) (Fre)

[C-peptide assays of the urine and plasma at baseline and under stimulation with glucagon in healthy subjects and diabetics] Sabot O, et al. **Presse Med** 1990 May 5; 19(18):860-3 (Eng. Abstr.) (Fre)

[Physiopathology of non-insulin-dependent diabetes: current data and therapeutic consequences] Broussolle C, et al. **Rev Med Interne** 1990 Mar-Apr;11(2):142-8 (Eng. Abstr.) (Fre)

[Disordered muscular glycogen synthesis in type-II diabetes] Hepp KD. **Dtsch Med Wochenschr** 1990 Jul 6;115(27):1079 (Ger)

[Late-onset diabetes 1989] Bürgi U. **Schweiz Med Wochenschr** 1990 Jun 2;120(22):809-16 (49 ref.) (Eng. Abstr.) (Ger)

[Comparison of guar gum, wheat bran and placebo on carbohydrate and lipid metabolism in type II diabetics] Stahl M, et al. **Schweiz Med Wochenschr** 1990 Mar 24; 120(12):402-8 (27 ref.) (Eng. Abstr.) (Ger)

[The sialylation rate of apolipoprotein E in insulin-dependent (IDDM) and non-insulin-dependent (NIDDM) diabetes mellitus] Kopitzsch S, et al. **Z Med Lab Diagn** 1990; 31(1):47-52 (Eng. Abstr.) (Ger)

[Comparison of HbA1c, fructosamine and the main metabolic parameters in a non-insulin-dependent diabetic population] Magnati G, et al. **G Clin Med** 1990 Jan;71(1):25-30 (Eng. Abstr.) (Ita)

[Oral galactose tolerance test in the study of glucose metabolism disorders in patients with liver disease] Marotta F, et al. **G Clin Med** 1990 Mar;71(3):185-92 (Eng. Abstr.) (Ita)

[Metabolism of the ischemic myocardium in non-insulin-dependent diabetes] Uccella R. **Minerva Med** 1989 Sep;80(9):965-8 (Eng. Abstr.) (Ita)

[The crevicular fluid in diabetics before and after initial periodontal treatment] Pallassini A, et al. **Minerva Stomatol** 1989 Oct;38(10):1087-93 (Eng. Abstr.) (Ita)

[Selected indicators of calcium-phosphate metabolism in patients with diabetes mellitus] Blasiak M, et al. **Endokrynol Pol** 1989;40(5):251-62 (Eng. Abstr.) (Pol)

[Hypercalciuria in patients with diabetes mellitus type 1 and 2--studies of its pathogenesis using the oral calcium tolerance test] Gasińska T, et al. **Endokrynol Pol** 1989; 40(3):115-24 (Eng. Abstr.) (Pol)

[Acetylation phenotype in diabetes mellitus] Stryjek-Kamińska D, et al. **Pol Arch Med Wewn** 1987 Aug; 78(2):89-96 (Eng. Abstr.) (Pol)

[The use of fat and protein metabolic indices in assessing the compensation status of diabetics] Perelygina AA, et al. **Probl Endokrinol (Mosk)** 1989 Sep-Oct;35(5):31-3 (Eng. Abstr.) (Rus)

[The effect of various inducers on interferon-synthesizing activity of leukocytes in patients with diabetes mellitus] Ofurskaia SV, et al. **Vopr Virusol** 1989 Nov-Dec; 34(6):714-6 (Eng. Abstr.) (Rus)

[Insulin and peptide C secretion after food ingestion and the interaction of insulin with its erythrocyte receptor in a family with MODY type diabetes mellitus] Hernández A, et al. **Med Clin (Barc)** 1989 Sep 23;93(8):281-5 (Eng. Abstr.) (Spa)

[Metabolism of lipoproteins in diabetes mellitus] Joven J, et al. **Med Clin (Barc)** 1989 Dec 9;93(19):752-5 (84 ref.) (Spa)

[Evaluation of the interleukin 1 production by adherent cells in patients with diabetes type II] Barañao RI, et al. **Medicina (B Aires)** 1989;49(1):28-32 (Eng. Abstr.) (Spa)

MICROBIOLOGY

Detection of cytomegalovirus nucleic acid sequences in pancreas in type 2 diabetes. Löhr JM, et al. **Lancet** 1990 Sep 15;336(8716):644-8

MORTALITY

Blood pressure, proteinuria and their relationship with circulatory mortality: the WHO Multinational Study of Vascular Disease in Diabetics. Fuller JH, et al. **Diabete Metab** 1989;15(5 Pt 2):273-7

Obesity, weight loss and prognosis in type 2 diabetes. Lean ME, et al. **Diabetic Med** 1990 Mar-Apr;7(3):228-33

Mechanisms of excess cardiovascular mortality in diabetes. Keen H, et al. **Postgrad Med J** 1989;65 Suppl 1:S26-9 (25 ref.)

Mortality in diabetes [editorial] Jarrett J. **Q J Med** 1990 May; 75(277):413-4

[Mortality risk factors in cardiovascular diseases in patients with diabetes mellitus in Warsaw--a 10-year prospective study] Janeczko D, et al. **Pol Arch Med Wewn** 1989 Mar; 81(3):156-67 (Eng. Abstr.) (Pol)

PATHOLOGY

Beta-cell hyperresponsiveness: earliest event in development of diabetes in monkeys. Hansen BC, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R612-7

Corneal endothelial changes after posterior chamber intraocular lens implantation in patients with or without diabetes mellitus [see comments] Furuse N, et al. **Br J Ophthalmol** 1990 May;74(5):258-60 Comment in: Br J Ophthalmol 1990 May;74(5):257.

Pathological changes in the vagus nerve in diabetes and chronic alcoholism. Guo YP, et al. **Clin Exp Neurol** 1987; 24:123-7

A clinical-histological study of individuals with diabetes mellitus and proteinuria. Taft JL, et al. **Diabetic Med** 1990 Mar-Apr;7(3):215-21

Necrotizing fasciitis. Reynolds WR, et al. **Iowa Med** 1989 Dec;79(12):587-90

Relationship of corneal endothelial morphology to diabetic retinopathy, duration of diabetes and glycemic control. Matsuda M, et al. **Jpn J Ophthalmol** 1990;34(1):53-6

Glomerular volume in type 2 (noninsulin-dependent) diabetes estimated by a direct and unbiased stereologic method. Schmitz A, et al. **Lab Invest** 1990 Jan;62(1):108-13

Morphology and morphometry of male gonad in diabetes. Sośnik H. **Patol Pol** 1989;40(3):281-92

Successful use of cadaver kidneys from diabetic donors for transplantation. Spees EK, et al. **Transplant Proc** 1990 Apr; 22(2):378-9

[Change of kidney volume in patients with non-insulin-dependent diabetes mellitus (NIDDM)] Han XL. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Oct;11(5):388-90 (Eng. Abstr.) (Chi)

PHYSIOPATHOLOGY

Relationship between retinal ischemia and cardiovascular autonomic damage in diabetes. Giardullo A, et al. **Acta Diabetol Lat** 1989 Jul-Sep;26(3):245-55

Comparison of BT-PABA test and fecal chymotrypsin measurements in normal subjects and diabetic patients. Montalto G, et al. **Acta Diabetol Lat** 1990 Apr-Jun; 27(2):157-64

Exercise-induced increase in glandular kallikrein activity in human plasma and its significance in peripheral glucose metabolism. Koh H, et al. **Adv Exp Med Biol** 1989; 247A:555-62

Increased insulin-responsiveness by ACE-inhibition in noninsulin dependent diabetes mellitus. Rett K, et al. **Adv Exp Med Biol** 1989;247A:207-13

Salt-sensitive blood pressure and exaggerated vascular reactivity in the hypertension of diabetes mellitus. Tuck M, et al. **Am J Med** 1990 Mar;88(3):210-6

Mind over metabolism: the cephalic phase in relation to non-insulin-dependent diabetes and obesity. Storlien LH, et al. **Biol Psychol** 1989 Feb;28(1):3-23 (130 ref.)

Visual evoked responses in diabetes. Millingen KS, et al. **Clin Exp Neurol** 1987;24:153-8

Impact of blood pressure on diabetic retinopathy. Janka HU, et al. **Diabete Metab** 1989;15(5 Pt 2):333-7 (27 ref.)

On the impact of hypertension on the prognosis of NIDDM. Results of the Schwabing GP-Program. Standl E, et al. **Diabete Metab** 1989;15(5 Pt 2):352-8

Peripheral neuropathy in diabetic monkeys. Cornblath DR, et al. **Diabetes** 1989 Nov;38(11):1365-70

Relationships between microvascular function and capillary structure in diabetic and nondiabetic human skin. Katz MA, et al. **Diabetes** 1989 Oct;38(10):1245-50

Prevalence of neuropathy in newly diagnosed NIDDM and nondiabetic control subjects. Lehtinen JM, et al. **Diabetes** 1989 Oct;38(10):1307-13

Type II diabetes, glucose "non-sense," and islet desensitization. Robertson RP. **Diabetes** 1989 Dec; 38(12):1501-5 (36 ref.)

Exercise and NIDDM. **Diabetes Care** 1990 Jul;13(7):785-9 (48 ref.)

Effect of coronary artery disease on parasympathetic cardiovascular reflexes in NIDDM patients. Airaksinen KE, et al. **Diabetes Care** 1990 Feb;13(2):83-6

Exercise-induced hypertension in normotensive patients with NIDDM. Blake GA, et al. **Diabetes Care** 1990 Jul; 13(7):799-801

Postprandial oscillatory patterns of blood glucose and insulin in NIDDM. Abnormal diurnal insulin secretion patterns and glucose homeostasis independent of obesity. Calles-Escandon J, et al. **Diabetes Care** 1989 Nov-Dec; 12(10):709-14

Race for better health. The tortoise or the hare? [editorial] Devlin JT. **Diabetes Care** 1990 Feb;13(2):176-7

Scope and heterogeneous nature of MODY [published erratum appears in Diabetes Care 1990 Mar;13(3):following Table of Contents] Fajans SS. **Diabetes Care** 1990 Jan; 13(1):49-64 (112 ref.)

Corrected Q-T interval prolongation as diagnostic tool for assessment of cardiac autonomic neuropathy in diabetes mellitus. Gonin JM, et al. **Diabetes Care** 1990 Jan; 13(1):68-71

Development of questionnaire to examine relationship of physical activity and diabetes in Pima Indians. Kriska AM, et al. **Diabetes Care** 1990 Apr;13(4):401-11

Mapping diabetic sensory neuropathy by current perception threshold testing. Rendell MS, et al. **Diabetes Care** 1989 Oct;12(9):636-40

Maturity-onset diabetes of the young (MODY). Fajans SS. **Diabetes Metab Rev** 1989 Nov;5(7):579-606 (130 ref.)

Insulin resistance and noninsulin-dependent diabetes mellitus: which horse is pulling the cart? Garvey WT. **Diabetes Metab Rev** 1989 Dec;5(8):727-42 (120 ref.)

The pupillary light reflex in diabetes mellitus: evaluation of a newly developed infrared light reflection method. de Vos A, et al. **Diabetes Res** 1989 Apr;10(4):191-5

Renal effects of prostaglandin E1 in type 2 (non-insulin-dependent) diabetic patients with subclinical nephropathy. Ninomiya Y, et al. **Diabetes Res** 1989 Mar; 10(3):129-34

A supplementary infusion of glucose-dependent insulinotropic polypeptide (GIP) with a meal does not significantly improve the beta cell response or glucose tolerance in type 2 diabetes mellitus. Jones IR, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):263-9

Insulin release by D-glucose anomers in a non-insulin-dependent diabetes rat model. Niki A, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S87-92

Decreased beta-adrenergic responses of rat small intestine due to non-insulin-dependent diabetes. Oztürk Y, et al. **Diabetes Res Clin Pract** 1990 May-Jun;9(2):123-7

Chronic undernutrition may accentuate the beta cell dysfunction of type 2 diabetes. Rao RH. **Diabetes Res Clin Pract** 1990 Jan;8(2):125-30

Relationship between glycemic control and orthostatic hypotension in type 2 diabetes mellitus--a survey by the Fukuoka Diabetes Clinic Group. Tsutsu N, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):115-23

Putative risk factors associated with retinopathy in patients with diabetes diagnosed at or after 30 years of age. Agardh E, et al. **Diabetic Med** 1989 Nov;6(8):724-7

Microalbuminuria and cardiovascular risk factors in type 2 diabetes mellitus. Allawi J, et al. **Diabetic Med** 1990 Feb; 7(2):115-8

Drug treatment of obesity in type 2 diabetes mellitus. Carpenter MA, et al. **Diabetic Med** 1990 Feb;7(2):99-104 (32 ref.)

Effects of intensive dietary treatment on insulin-stimulated skeletal muscle glycogen synthase activation and insulin secretion in newly presenting type 2 diabetic patients. Johnson AB, et al. **Diabetic Med** 1990 Jun;7(5):420-8

The plasma C-peptide and insulin responses to stimulation with intravenous glucagon and a mixed meal in well-controlled type 2 (non-insulin-dependent) diabetes mellitus: dependency on acutely established hyperglycaemia. Gjessing HJ, et al. **Diabetologia** 1989 Dec; 32(12):858-63

Microalbuminuria predicts the development of serum lipoprotein abnormalities favouring atherogenesis in newly diagnosed type 2 (non-insulin-dependent) diabetic patients. Niskanen L, et al. **Diabetologia** 1990 Apr;33(4):237-43

Permanent neuropsychological impairment after recurrent episodes of severe hypoglycaemia in man. Wredling R, et al. **Diabetologia** 1990 Mar;33(3):152-7

Cerebral ischemia in spontaneously hypertensive rats with type 2 (noninsulin-dependent) diabetes mellitus, cerebral blood flow and tissue metabolism. Fujii K, et al. **Gerontology** 1989;35(2-3):78-87

Obesity and adipose tissue distribution as risk factors for the development of disease. A review. Björntorp P. **Infusionstherapie** 1990 Feb;17(1):24-7 (32 ref.)

Capillary filtration and lymphatic resorption in diabetes. Application to the pharmacodynamic activity of Daflon 500 mg. Behar A, et al. **Int Angiol** 1989 Oct-Dec;8(4 Suppl):27-9

Corneal epithelial barrier function after oxybuprocaine provocation in diabetics. Stolwijk TR, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):436-9

Functional impairment in Mexican Americans and non-Hispanic whites with diabetes. Mitchell BD, et al. **J Clin Epidemiol** 1990;43(4):319-27

Autonomic and somatic peripheral nerve function and the correlation with neuropathic pain in diabetic patients. Lanting P, et al. **J Neurol Sci** 1989 Dec;94(1-3):307-17

Signal-averaging electrocardiogram in patients with diabetes mellitus. Yang Q, et al. **Jpn Heart J** 1990 Jan;31(1):25-33

Fish, diabetes, and the arterial wall [letter; comment] **Lancet** 1989 Dec 2;2(8675):1332 Comment on: Lancet 1989 Oct 21;2(8669):944-6.

Remission in non-insulin-dependent diabetes mellitus: clinical characteristics of remission and relapse in black patients. Banerji MA, et al. **Medicine (Baltimore)** 1990 May; 69(3):176-85

Insulin resistance in rats with non-insulin-dependent diabetes induced by neonatal (5 days) streptozotocin: evidence for reversal following phlorizin treatment. Blondel O, et al. **Metabolism** 1990 Aug;39(8):787-93

Diabetic nephropathy--are there differences between type I and type II? Ritz E, et al. **Miner Electrolyte Metab** 1990; 16(1):69-72 (16 ref.)

Properties of Thai cooked rice and noodles differing in glycemic index in noninsulin-dependent diabetics. Juliano BO, et al. **Plant Foods Hum Nutr** 1989 Dec;39(4):369-74

Pathophysiology of insulin secretion in diabetes. Waldhäusl W. **Recenti Prog Med** 1990 Feb;81(2):67-71 (32 ref.)

Diabetes, erectile dysfunction, and sleep-related erections. Hirshkowitz M, et al. **Sleep** 1990 Feb;13(1):53-68

Body fat mass distribution. Influence on metabolic and atherosclerotic parameters in non-insulin dependent diabetics and obese subjects with and without impaired glucose tolerance. Influence of weight reduction. Van Gaal L. **Verh K Acad Geneeskd Belg** 1989;51(1):47-80

[Follow-up of early diabetic maculopathy by angiography and fluorophotometry] Cunha-Vaz J, et al. **J Fr Ophtalmol** 1989;12(10):657-9 (Eng. Abstr.) **(Fre)**

[Natural history of insulin resistance and hyperinsulinism in non-insulin-dependent diabetic patients] Vague P, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:201-9 (62 ref.) **(Fre)**

[The pathogenesis of type II diabetes mellitus] Klein HH, et al. **Internist (Berl)** 1990 Mar;31(3):168-79 (58 ref.) **(Ger)**

[Functional capacity of pancreatic B cells in patients with diabetes mellitus type 2 with late true ineffectiveness of sulfonylurea derivatives] Kasperska-Czyżykowa T, et al. **Pol Arch Med Wewn** 1989 Mar;81(3):168-75 (Eng. Abstr.) **(Hun)**

[Afterload changes in diabetic dysautonomia evaluated using echocardiography] Salvaggio A, et al. **Cardiologia** 1989 Sep;34(9):787-91 (Eng. Abstr.) **(Ita)**

[Insulin secretion and hepatic extraction in juvenile non-insulin-dependent diabetes] Carta G, et al. **Minerva Endocrinol** 1989 Jul-Sep;14(3):177-83 (Eng. Abstr.) **(Ita)**

[Correlation between vibratory detection threshold and conduction study of sural nerve in diabetic patients] Ohnishi A, et al. **Sangyo Ika Daigaku Zasshi** 1989 Dec 1;11(4):425-8 (Eng. Abstr.) **(Jpn)**

[Relation between the functions of fetal kidneys and the course of diabetes mellitus in pregnancy] Pavlova NG. **Akush Ginekol (Mosk)** 1990 May;(5):70-1 **(Rus)**

[The role of changes in central and intracardiac hemodynamics in lowering the physical work capacity of patients with ischemic heart disease and diabetes mellitus] Zaev AP, et al. **Ter Arkh** 1989;61(9):53-6 (Eng. Abstr.) **(Rus)**

[Course of peripheral diabetic neuropathy depending on the metabolic control after 6 months of follow-up] Pérez-Lázaro A, et al. **Med Clin (Barc)** 1990 May 12; 94(18):693-6 (Eng. Abstr.) **(Spa)**

[Silent myocardial ischemia during Holter monitoring in patients with diabetes mellitus] Marín Huerta E, et al. **Rev Esp Cardiol** 1989 Oct;42(8):519-29 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Primary prevention of type 2 (non-insulin-dependent) diabetes mellitus. King H, et al. **Diabetologia** 1990 Jan; 33(1):3-8 (25 ref.)

PSYCHOLOGY

Does moderate hyperglycemia adversely affect mentation? [letter] Parker L, et al. **Diabetes Care** 1989 Nov-Dec; 12(10):750-1

Relationship between hyperglycemia and cognitive function in older NIDDM patients. Reaven GM, et al. **Diabetes Care** 1990 Jan;13(1):16-21

Depressive symptomatology in obese adults with type II diabetes. Wing RR, et al. **Diabetes Care** 1990 Feb; 13(2):170-2

Measures of psychological well-being and treatment satisfaction developed from the responses of people with tablet-treated diabetes. Bradley C, et al. **Diabetic Med** 1990 Jun;7(5):445-51

The experience of anger in chronic illness: a preliminary investigation. Deshields TL, et al. **Int J Psychiatry Med** 1989;19(3):299-309

Quality of life in non-insulin-dependent diabetes and a comparison with insulin-dependent diabetes. Mayou R, et al. **J Psychosom Res** 1990;34(1):1-11

Diabetes and its care--what do patients expect? Kinmonth AL, et al. **J R Coll Gen Pract** 1989 Aug;39(325):324-7

RADIOGRAPHY

Nephrotoxicity of contrast media in patients with diabetes mellitus. A comparative urographic and angiographic study with iohexol and metrizoate. Billström A, et al. **Acta Radiol** 1989 Sep-Oct;30(5):509-15

[The clinical x-ray characteristics of the soft tissues of the lower extremities in diabetics] Gorelysheva VA, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):15-20 (Eng. Abstr.) **(Rus)**

REHABILITATION

Cardiovascular conditioning in individuals with diabetic retinopathy. Bernbaum M, et al. **Diabetes Care** 1989 Nov-Dec;12(10):740-2

Education for patients with established NIDDM. Disparities between patients who do and do not attend. Jennings AM, et al. **Diabetes Care** 1990 Jan;13(1):79-80

Health belief scales developed specifically for people with tablet-treated type 2 diabetes. Lewis KS, et al. **Diabetic Med** 1990 Feb;7(2):148-55

[Diabetes in professional life] Hasche H. **Off Gesundheitswes** 1990 Feb;52(2):85-90 (Eng. Abstr.) **(Ger)**

[Management of diabetic patients--a life-long rehabilitation process] Schulz B, et al. **Z Arztl Fortbild (Jena)** 1989; 83(19):967-72 (16 ref.) **(Ger)**

[The rehabilitation of patients with diabetes mellitus and ischemic heart disease] Zaev AP, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):9-15 (Eng. Abstr.) **(Rus)**

SURGERY

Simultaneous pancreas and kidney transplantation in a type II (non-insulin-dependent) diabetic uremic patient requiring pregraft insulin therapy. Cantarovich D, et al. **Transplant Proc** 1990 Apr;22(2):662

[Pancreas transplantation] Morel P, et al. **Schweiz Med Wochenschr** 1989 Oct 14;119(41):1407-15 (32 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

The management of non-insulin-dependent diabetes mellitus. Krosnick A, et al. **Clin Ther** 1988;10(2):146-57 (19 ref.)

SMBG in NIDDM patients treated by general practitioners in France [letter] Chwalow AJ, et al. **Diabetes Care** 1990 Apr;13(4):454

Acute hypoglycemic effect of Opuntia streptacantha Lemaire in NIDDM [letter] Frati AC, et al. **Diabetes Care** 1990 Apr;13(4):455-6

Placebo-controlled trial of the effects of guar gum and metformin on fasting blood glucose and serum lipids in obese, type 2 diabetic patients. Lalor BC, et al. **Diabetic Med** 1990 Mar-Apr;7(3):242-5

Variables associated with weight loss and improvements in glycemic control in type II diabetic patients in behavioral weight control programs. Wing RR, et al. **Int J Obes** 1990; 14(6):495-503

Treatment of hyperglycaemia in the elderly with diabetes mellitus. Madsbad S. **J Intern Med** 1990 Aug;228(2):79-82 (32 ref.)

Organized personal care--an effective choice for managing

diabetes in general practice. Foulkes A, et al. **J R Coll Gen Pract** 1989 Nov;39(328):444–7

Utilization trends and risk factors for hospitalization in diabetes mellitus. Panser LA, et al. **Mayo Clin Proc** 1990 Sep;65(9):1171–84

The effect of treatment of non-insulin-dependent diabetes mellitus (NIDDM) on serum lipids and lipoproteins. Baynes C, et al. **Q J Med** 1989 Jul;72(267):579–87 (70 ref.)

Enteral nutrition in diabetes mellitus. Schrezenmeir J, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:37–41

[Reconditioning of diabetics—a progressive therapeutic method] Březina J, et al. **Cas Lek Cesk** 1989 Oct 13; 128(42):1328–31 (Eng. Abstr.) (Cze)

[Treatment of non-insulin-dependent diabetes mellitus: a plea for comprehensive care] Heine RJ. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):267–70 (23 ref.) (Dut)

[Treatment of non-insulin-dependent diabetes mellitus: a plea for comprehensive care (letter)] Rutten GE. **Ned Tijdschr Geneeskd** 1990 Jun 16;134(24):1195–6 (Dut)

[Treatment of non-insulin-dependent diabetes mellitus: a plea for comprehensive care (letter)] Zuidweg J. **Ned Tijdschr Geneeskd** 1990 Apr 7;134(14):725–6 (Dut)

[Management of gestational diabetes: objectives and results] Tchobroutsky C. **Rev Fr Gynecol Obstet** 1990 Mar; 85(3):145–6 (Eng. Abstr.) (Fre)

[Diabetes education] Toeller M. **Internist (Berl)** 1990 Mar; 31(3):208–17 (52 ref.) (Ger)

[Clinical significance, diagnosis and treatment of diabetes in pregnancy (gestational diabetes)] Berger W, et al. **Ther Umsch** 1990 Jan;47(1):71–9 (27 ref.) (Eng. Abstr.) (Ger)

[Frequent errors in the treatment of diabetes mellitus] Mehnert H. **Verh Dtsch Ges Inn Med** 1989;95:380–6 (Ger)

[Essential arterial hypertension in patients with non-insulin-dependent diabetes mellitus during and after balneotherapy followed-up for 6 years] Hurjui J, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Oct-Dec; 93(4):659–61 (Eng. Abstr.) (Rum)

[The importance of food and drug plant factors in the combined treatment of patients with type-II diabetes mellitus] Korotkova VD, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):24–9 (Eng. Abstr.) (Rus)

[Hyperbaric oxygenation in the combined treatment of patients with diabetes mellitus complicated by a suppurative-septic infection] Sinitsyn PD, et al. **Probl Endokrinol (Mosk)** 1990 May-Jun;36(3):21–3 (Eng. Abstr.) (Rus)

[Recommendations from an expert group: treatment of non-insulin-dependent diabetes mellitus] **Lakartidningen** 1990 Mar 14;87(11):865–9 (Swe)

URINE

Urinary citrate and oxalate in 42 diabetics. He XQ, et al. **Chin Med J [Engl]** 1989 Oct;102(10):809–10

Enzyme immunoassay for urinary albumin at low concentration in diabetes mellitus. Niwa T, et al. **Clin Chim Acta** 1990 Jan 31;186(3):391–6

Increased urinary excretion of beta-hydroxyisovaleric acid in ketotic and non-ketotic type II diabetes mellitus. Yu WM, et al. **Clin Chim Acta** 1990 Apr 30;188(2):161–8

Evaluation and clinical applications of measurement of urinary growth hormone in diabetic subjects. Suzuki K, et al. **Diabetes** 1989 Dec;38(12):1567–72

Comparison of urinary albumin excretion between Maoris, Pacific Island Polynesians and Europeans with non-insulin-dependent diabetes. Lunt H, et al. **Diabetes Res Clin Pract** 1990 Jan;8(1):45–9

Persistent albuminuria as an index of diabetic nephropathy in type 2 diabetic patients in Osaka, Japan-incidence, risk factors, prognosis and causes of death. Sasaki A, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):299–306

Microalbuminuria and diabetic complications in Chinese non-insulin-dependent diabetic patients: a prospective study. Tai TY, et al. **Diabetes Res Clin Pract** 1990 Apr; 9(1):59–63

Triphasic changes in selectivity with increasing proteinuria in type 1 and type 2 diabetes. Jerums G, et al. **Diabetic Med** 1989 Dec;6(9):772–9

Microproteinuria in type 2 diabetes mellitus from diagnosis. Martin P, et al. **Diabetic Med** 1990 May;7(4):315–8

Renal handling of uric acid [letter] Thalassinos NC. **Diabetic Med** 1990 Jul;7(6):547–8

Pancreastatin-like immunoreactivity in urine. Tateishi K, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):842–5

Low urinary chiro-inositol excretion in non-insulin-dependent diabetes mellitus. Kennington AS, et al. **N Engl J Med** 1990 Aug 9;323(6):373–8

Clinical and ethnic characteristics associated with urinary albumin excretion in noninsulin dependent diabetic subjects attending the Wellington Hospital diabetes clinic. Lunt H, et al. **N Z Med J** 1990 Apr 11;103(887):143–5

Comparison of the prevalence and associated features of abnormal albumin excretion in insulin-dependent and non-insulin-dependent diabetes. Marshall SM, et al. **Q J Med** 1989 Jan;70(261):61–71

[Analysis of urinary citrate and oxalate in 42 diabetics] He XQ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Aug; 28(8):473–5, 509–10 (Eng. Abstr.) (Chi)

[Validity of the first morning urine collection for screening for microalbuminuria in the diabetic] Signorini AM, et al. **Boll Soc Ital Biol Sper** 1989 Aug;65(8):719–25 (Eng. Abstr.) (Ita)

[Principal component analysis for microalbuminuria in patients with noninsulin-dependent, maturity-onset diabetes mellitus] Makino M, et al. **Rinsho Byori** 1990 Jan; 38(1):65–70 (Eng. Abstr.) (Jpn)

[Urine glucose in self-monitoring of the diabetic patient (letter)] de Matías JM, et al. **Med Clin (Barc)** 1990 Mar 31;94(12):478 (Spa)

DIABETES MELLITUS, STABLE see **DIABETES MELLITUS, NON-INSULIN-DEPENDENT**

DIABETES MELLITUS, TYPE 1 see **DIABETES MELLITUS, INSULIN-DEPENDENT**

DIABETES MELLITUS, TYPE 2 see **DIABETES MELLITUS, NON-INSULIN-DEPENDENT**

DIABETES, PHOSPHATE see **HYPOPHOSPHATEMIA, FAMILIAL**

DIABETES, RENAL see **GLYCOSURIA, RENAL**

DIABETIC ANGIOPATHIES

Ischemic heart disease and diabetic cardiomyopathy [letter] Zoneraich S. **J Am Coll Cardiol** 1989 Nov 15;14(6):1585–6

[Diabetes mellitus and the heart] Cirillo W, et al. **Arq Bras Cardiol** 1989 Nov;53(5):291–3 (53 ref.) (Por)

[Physiopathology, clinical aspects and treatment of the diabetic foot] Beltrán Ramón J, et al. **Angiologia** 1989 Nov-Dec;41(6):217–24 (17 ref.) (Eng. Abstr.) (Spa)

BLOOD

Increased sodium-lithium countertransport in black non-insulin-dependent diabetic hypertensives. Johnson BA, et al. **Am J Hypertens** 1990 Jul;3(7):563–5

Platelet and plasma vasoactive amines in type 1 (insulin-dependent) diabetes mellitus with and without vascular disease. Winocour PH, et al. **Ann Clin Biochem** 1990 May;27 (Pt 3):238–43

Role of plasma ascorbate in diabetic microangiopathy. Ali SM, et al. **Bangladesh Med Res Counc Bull** 1989 Dec; 15(2):47–59

Elevation of plasma thrombomodulin level in diabetic patients with early diabetic nephropathy. Iwashima Y, et al. **Diabetes** 1990 Aug;39(8):983–8

Serum type IV collagen concentrations in diabetic patients with microangiopathy as determined by enzyme immunoassay with monoclonal antibodies. Matsumoto E, et al. **Diabetes** 1990 Aug;39(8):885–90

Diabetes mellitus, the renin-angiotensin system, and angiotensin-converting enzyme inhibition. Björck S, et al. **Nephron** 1990;55 Suppl 1:10–20 (110 ref.)

Prospective study of the impact of hypertension upon kidney function in diabetes mellitus. Walker WG, et al. **Nephron** 1990;55 Suppl 1:21–6

Hypofibrinolysis associated with vasculopathy in non insulin dependent diabetes mellitus. García Frade LJ, et al. **Thromb Res** 1990 Jul 1;59(1):51–9

[Studies on the interrelation of plasma 6-keto-prostaglandin F1 alpha, thromboxane B2 and diabetic microangiopathy] Zhang ML, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Mar; 28(3):142–4, 185–6 (Eng. Abstr.) (Chi)

[TcPO2 of the top of the foot in the sitting position] Becker F, et al. **Vasa Suppl** 1989;27:45 (Fre)

[Prostacyclin-like activity modifying plasma factors in diabetic microangiopathy] Magyari M, et al. **Fortschr Ophthalmol** 1990;87(3):269–73 (Eng. Abstr.) (Ger)

[Evaluation of various hemorheologic parameters in diabetes mellitus] Cella A, et al. **Boll Soc Ital Biol Sper** 1990 Apr; 66(4):335–42 (Eng. Abstr.) (Ita)

[Hemostasis and lipid metabolism in patients with non-insulin- dependent diabetes mellitus and angiopathy of the lower extremities] Mamedgasanov RM, et al. **Klin Med (Mosk)** 1989 Aug;67(8):74–6 (Eng. Abstr.) (Rus)

[The level of glycosylated hemoglobin A1c in the erythrocytes of patients with diabetic angio- and polyneuropathies] Karabun PM. **Probl Endokrinol (Mosk)** 1989 Sep-Oct;35(5):33–7 (Eng. Abstr.) (Rus)

[Changes in fibrinolysis in diabetes mellitus] Tóthová E, et al. **Vnitr Lek** 1990 Feb;36(2):163–9 (Eng. Abstr.) (Slo)

CHEMICALLY INDUCED

Insulin as risk factor for vascular disease [letter] Gwinup G, et al. **Diabetes Care** 1990 May;13(5):543–5

COMPLICATIONS

Two case reports of macrovascular complications in fibrocalculous pancreatic diabetes. Mohan V, et al. **Acta Diabetol Lat** 1989 Oct-Dec;26(4):345–9

Diabetes mellitus type I. The present and the future. Barbosa J, et al. **Acta Med Port** 1989 Sep;Suppl 1:51S–55S (73 ref.)

Acute heart failure in an 8-year-old diabetic girl [clinical conference] Chiasson DA, et al. **J Pediatr** 1990 Mar; 116(3):472–7

Radical treatment of mal perforans in diabetic patients with arterial insufficiency. Martin JD, et al. **J Vasc Surg** 1990 Sep;12(3):264–8

Etiologic aspects of impotence in diabetes. Forsberg L, et al. **Scand J Urol Nephrol** 1989;23(3):173–5

Risk factors of ischemic brain stroke in Korean diabetic patients--a retrospective study. Kim JS, et al. **Yonsei Med J** 1989 Sep;30(3):288–93

[Diabetic cheiroarthropathy. Microcirculatory aspects] Guillot B, et al. **J Mal Vasc** 1990;15(1):37–40 (Eng. Abstr.) (Fre)

[Pathogenic role of hyperinsulinemia and/or moderated or declared hyperglycemia. Epidemiologic data] Eschwege E, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:193–200 (Fre)

[Correlation of autonomic neuropathy and retinal microangiopathy in diabetic children] Barkai L Jr, et al. **Orv Hetil** 1989 Sep 17;130(38):2037–40 (Eng. Abstr.) (Hun)

[Surgical care of inflammatory processes in ischemic extremities] Gaberlek I, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:709–12 (Slv)

[The heart and diabetes mellitus] Lerman Garber I, et al. **Arch Inst Cardiol Mex** 1990 Jan-Feb;60(1):79–88 (84 ref.) (Eng. Abstr.) (Spa)

DIAGNOSIS

Hearing disorders in patients with insulin-dependent diabetes mellitus. Parving A, et al. **Audiology** 1990;29(3):113–21

Evaluation of exercise electrocardiography and thallium tomographic imaging in detecting asymptomatic coronary artery disease in diabetic patients. Koistinen MJ, et al. **Br Heart J** 1990 Jan;63(1):7–11

Measurement of Doppler velocity in diagnosis of peripheral vascular disease in diabetics with peripheral pulse deficit. Vogelberg KH, et al. **Diabetes Res** 1989 May;11(1):33–7

Classical microangiopathic diabetic complications in the absence of overt diabetes mellitus. Abdella N, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):283–6

Diagnostic methods for peripheral arterial disease in the San Luis Valley Diabetes Study. Hiatt WR, et al. **J Clin Epidemiol** 1990;43(6):597–606

Early diagnosis of subclinical complications in insulin dependent diabetic children and adolescents. Chiumello G, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):101–4

Plasma plasmalogens of the phosphoethanolamine type and angiopathy in diabetic patients. Goto I, et al. **Klin Wochenschr** 1990 Jan 4;68(1):49

[Impedance methods of studying the vascular changes in insulin-dependent diabetes mellitus] Ikonomov M. **Vutr Boles** 1989;28(6):52–6 (Eng. Abstr.) (Bul)

[Doppler sonographic studies of the lower extremities in diabetics] Mũngov P, et al. **Vutr Boles** 1989;28(4):61–4 (Bul)

[Is the measurement of the pulse wave rate useful in the diagnosis of the early stages of arterial atherosclerosis of the lower extremities in type I diabetics?] Jeníovský J, et al. **Cas Lek Cesk** 1990 Apr 6;129(14):432–5 (Eng. Abstr.) (Cze)

[Can ungual capillaroscopy and conjunctival angioscopy detect some diabetic micro-angiopathies? (letter)] Hamon P, et al. **Presse Med** 1990 Apr 14;19(15):721 (Fre)

[Diabetic microangiopathy. Role of capillaroscopy] Mouthon JM, et al. **Presse Med** 1989 Oct 14;18(33):1647–50 (Eng. Abstr.) (Fre)

[Photoplethysmography as a means of early diagnosis of changes in the microcirculation of children and adolescents with type I diabetes. Preliminary study] Buzzetti M, et al. **Clin Ter** 1989 Nov 15;131(3):189–94 (Eng. Abstr.) (Ita)

[Evaluation of arterial supply to the legs by noninvasive methods in elderly patients with diabetes] Czarnacki M, et al. **Wiad Lek** 1989 Jun 15;42(12):788–93 (Eng. Abstr.) (Pol)

[Early detection of nephroangiopathy in patients with diabetes mellitus and approaches to its correction] Spesivtseva VG, et al. **Ter Arkh** 1989;61(6):67–9 (Eng. Abstr.) (Rus)

[Biopsy of the external ear in diabetology] Papić Z, et al. **Med Pregl** 1989;42(3–4):102–8 (Eng. Abstr.) (Scr)

DIET THERAPY

Effect of low fat-high carbohydrate diets in hypertensive patients with non-insulin-dependent diabetes mellitus. Fuh MM, et al. **Am J Hypertens** 1990 Jul;3(7):527–32

DRUG THERAPY

Treatment selection considerations for the hypertensive diabetic patient. Christlieb AR. **Arch Intern Med** 1990 Jun; 150(6):1167–74 (76 ref.)

Ketanserin in chronic treatment of hypertension in type 2 diabetes mellitus. Fogari R, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 May;28(5):218–22

Cardiovascular regulation during angiotensin converting enzyme inhibition with captopril in diabetes-associated hypertension. Beretta-Piccoli C, et al. **J Hypertens** 1990 Jul;8(7):671–8

Systemic and renal effects of chronic angiotensin converting enzyme inhibition with captopril in hypertensive diabetic patients. Stornello M, et al. **J Hypertens Suppl** 1989 Sep; 7(7):S65–7

Fish oils and diabetic microvascular disease [editorial]

Lancet 1990 Mar 3;335(8688):508–9 (17 ref.)
Beneficial effects of angiotensin–converting enzyme inhibitor on renal function and glucose homeostasis in diabetics with hypertension. Ueda Y, et al. Nephron 1990;55 Suppl 1:85–9
Therapeutic aspects of hyperlipidaemia in diabetes. Durrington PN, et al. Postgrad Med J 1989;65 Suppl 1:S33–41 (79 ref.)
Treatment of hypertension in diabetic patients. Passa P, et al. Postgrad Med J 1989;65 Suppl 1:S42–5 (21 ref.)
Examination of Cavinton effect in elderly diabetic patients. Boda J, et al. Ther Hung 1989;37(3):176–80
Effect of lipanthyl in hyperlipoproteinaemic diabetic patients. Hajós P, et al. Ther Hung 1989;37(3):138–43
[Fully implantable catheter systems for arterial extremity infusion] Krawzak HW, et al. Chirurg 1989 Jul;60(7):475–8 (Eng. Abstr.) (Ger)
[Treatment of hyperlipoproteinemia in patients with diabetes mellitus] Dammann HG, et al. Fortschr Med 1990 May 20;108(15):305–8 (0 ref.) (Eng. Abstr.) (Ger)
[Results of local thrombolysis with special reference to diabetic metabolism] Stiegler H, et al. Med Klin 1990 Apr 15;85(4):171–5, 228 (Eng. Abstr.) (Ger)
[Intra-arterial infusion therapy of progressive diabetic foot gangrene with prostaglandin E1 and cefotaxime] Krawzak HW, et al. Vasa 1989;18(4):312–5 (Eng. Abstr.) (Ger)
[Picotamide: prevention and therapy of diabetic vasculopathies. A double-blind clinical study] Pibiri L, et al. Clin Ter 1990 May 31;133(4):233–7 (Eng. Abstr.) (Ita)
[Specificity of drug therapy of hypertension in patients with diabetes mellitus] Tatoń J. Pol Tyg Lek 1988 Dec 19–26; 43(51–52):1661–7 (Pol)

EPIDEMIOLOGY

Factors associated with avoidance of severe complications after 25 yr of IDDM. Pittsburgh Epidemiology of Diabetes Complications Study I. Orchard TJ, et al. Diabetes Care 1990 Jul;13(7):741–7

ETIOLOGY

Microcirculation and diabetes. Tooke JE. Br Med Bull 1989 Jan;45(1):206–23 (77 ref.)
Food variety is associated with less macrovascular disease in those with type II diabetes and their healthy controls. Wahlqvist ML, et al. J Am Coll Nutr 1989 Dec;8(6):515–23
Diet, diabetes and atherosclerosis. Raheja BS. J Assoc Physicians India 1990 Feb;38(2):168–72 (43 ref.)
Glucose-induced microvascular functional changes in nondiabetic rats are stereospecific and are prevented by an aldose reductase inhibitor. Williamson JR, et al. J Clin Invest 1990 Apr;85(4):1167–72
Peripheral vascular disease in diabetes mellitus. DeLawter DE. Md Med J 1990 Mar;39(3):253–7
Diabetes mellitus as a risk factor for stroke. Mortel KF, et al. South Med J 1990 Aug;83(8):904–11
[Diabetes and hemorheology] Attali JR, et al. Diabete Metab 1990 Jan–Feb;16(1):1–6 (36 ref.) (Eng. Abstr.) (Fre)
[Identification and prevention of vascular risk. Significance of metformin] Isnard F, et al. Journ Annu Diabetol Hotel Dieu 1990;:311–23 (33 ref.) (Fre)
[Heart involvement in diabetic patients] Grimaldi A, et al. Presse Med 1990 Mar 24;19(11):519–24 (27 ref.) (Eng. Abstr.) (Fre)
[Essential hypertension and diabetes mellitus] Dietze G, et al. Fortschr Med 1990 Feb 28;108(6):103–6 (40 ref.) (Eng. Abstr.) (Ger)
[The diabetic foot] Morell B. Ther Umsch 1990 Jan; 47(1):55–62 (15 ref.) (Eng. Abstr.) (Ger)
[Risk profile and macroangiopathy in type II diabetics in medical practice] Stiegler H, et al. Vasa 1990;19(2):119–28 (Eng. Abstr.) (Ger)
[Arterial hypertension in diabetes mellitus] Tiengo A. G Clin Med 1990 Jan;71(1):3–6, 10–6 (55 ref.) (Ita)
[Adipose tissue distribution in children with excessive body weight and the possibility of development of complications of obesity. II. Positive family history in relation to arteriosclerosis risk factor and the constitutional type of obesity in children] Krawczuk-Rybakowa M, et al. Pediatr Pol 1989 Jul;64(7):467–73 (Eng. Abstr.) (Pol)
[Diabetes mellitus and coronopathy] Lopes MR, et al. Rev Port Cardiol 1989 Nov;8(11):795–9 (20 ref.) (Eng. Abstr.) (Por)
[The significance of compensation in diabetes mellitus in the development of diabetic microangiopathies (a review of the literature)] Gendeleka GF. Vrach Delo 1989 Aug; (8):54–8 (35 ref.) (Rus)

IMMUNOLOGY

[Quantitative changes of the blood serum immunoglobulins in patients with diabetes mellitus types I and II and microangiopathy detected by morphologic study] Saltykov BB, et al. Ter Arkh 1990;62(4):111–4 (Eng. Abstr.) (Rus)

METABOLISM

The effect of sulfonylurea therapy on defective calcium movement associated with diabetic cardiomyopathy. Mozaffari MS, et al. Can J Physiol Pharmacol 1989 Nov; 67(11):1431–6

MORTALITY

Blood pressure, proteinuria and their relationship with circulatory mortality: the WHO Multinational Study of Vascular Disease in Diabetics. Fuller JH, et al. Diabete Metab 1989;15(5 Pt 2):273–7
Mechanisms of excess cardiovascular mortality in diabetes. Keen H, et al. Postgrad Med J 1989;65 Suppl 1:S26–9 (25 ref.)
[Mortality among patients with diabetes mellitus in Warsaw—a 10-year prospective study] Janeczko D, et al. Pol Arch Med Wewn 1989 Mar;81(3):144–55 (Eng. Abstr.) (Pol)

PATHOLOGY

A comparison of the pathological spectrum of hypertensive, diabetic, and hypertensive-diabetic heart disease. van Hoeven KH, et al. Circulation 1990 Sep;82(3):848–55
Relationship of endoneurial capillary abnormalities to type and severity of diabetic polyneuropathy. Britland ST, et al. Diabetes 1990 Aug;39(8):909–13
The endocrine pancreas of alloxan-diabetic rats: microangiopathy as revealed by electron microscopy. Nakamura M, et al. Diabetes Res Clin Pract 1989 Sep 18; 7(3):169–79
Morphological characteristics of dermal diabetic microangiopathy. Yasuda H, et al. Diabetes Res Clin Pract 1990 May–Jun;9(2):187–94
Significance of capillary basement membrane changes in diabetes mellitus. Boyd RB, et al. J Am Podiatr Med Assoc 1990 Jun;80(6):307–13 (62 ref.)
Clinical significance of the histomorphometric evaluation of diabetic microangiopathy in the oral mucosa. Montironi R, et al. Pathol Res Pract 1989 Nov;185(5):781–5
Morphology and morphometry of male gonad in diabetes. Sośnik H. Patol Pol 1989;40(3):281–92
Murine fetal islet transplants influence renal and retinal pathology. Cuthbertson RA, et al. Transplant Proc 1987 Feb;19(1 Pt 2):967–8
Effect of pancreatic transplantation on cardiovascular changes in diabetic rats: a qualitative and quantitative ultrastructural study. Hayashi T, et al. Transplant Proc 1990 Aug;22(4):2027–34
[The heart and diabetes. An anatomo-clinical study] da Silva LH, et al. Arq Bras Cardiol 1989 Aug;53(2):105–13 (81 ref.) (Eng. Abstr.) (Por)
[Microangiopathies in diabetes mellitus types 1 and 2] Saltykov BB, et al. Sov Med 1989;(10):77–9 (Rus)

PHYSIOPATHOLOGY

Arachidonic acid causes postischemic dysfunction in control but not diabetic hearts. Pieper GM. Am J Physiol 1990 Apr;258(4 Pt 2):H923–30
Blood pressure and microvascular complications in type 1 (insulin dependent) diabetic patients without hypertension. Le Floch JP, et al. Diabete Metab 1990 Jan–Feb;16(1):26–9
Microvascular reactivity to norepinephrine at different arteriolar levels and durations of streptozocin-induced diabetes. Morff RJ. Diabetes 1990 Mar;39(3):354–60
Contribution of diabetes duration before puberty to development of microvascular complications in IDDM subjects. Kostraba JN, et al. Diabetes Care 1989 Nov–Dec; 12(10):686–93
Growth factors and diabetic complications. Flyvbjerg A. Diabetic Med 1990 Jun;7(5):387–99 (165 ref.)
Prolonged aldose reductase inhibition in chronic peripheral diabetic neuropathy: effects on microangiopathy. Jennings PE, et al. Diabetic Med 1990 Jan;7(1):63–8
Myogenic microvascular responses are impaired in long-duration type 1 diabetes. Walmsley D, et al. Diabetic Med 1990 Mar–Apr;7(3):222–7
Reduced hyperaemia following skin trauma: evidence for an impaired microvascular response to injury in the diabetic foot. Walmsley D, et al. Diabetologia 1989 Oct;32(10):736–9
Why do some diabetics never develop vasculopathic complications? Boshell BR, et al. J Diabetic Complications 1989 Oct–Dec;3(4):183–6 (46 ref.)
On the evaluation, prevention, and treatment of diabetic foot lesions. Levin ME. J Diabetic Complications 1989 Oct–Dec; 3(4):211–9 (39 ref.)
Long-term diabetes—long straws, short straws, and very few big guns. McMillan DE. J Diabetic Complications 1990 Jan–Mar;4(1):1–2 (14 ref.)
Decrease of macrovascular hyperemic response of blood flow in diabetics with arterial neuropathy. Vogelberg KH, et al. Klin Wochenschr 1990 Jun 19;68(12):588–93
Are late diabetic complications reversible after pancreas transplantation? A new method of follow-up of microcirculatory changes. Abendroth D, et al. Transplant Proc 1987 Feb;19(1 Pt 3):2325–6
Cutaneous reactive hyperemia in short-term and long-term type I diabetes—continuous monitoring by a combined laser Doppler and transcutaneous oxygen probe. Franzeck UK, et al. Vasa 1990;19(1):8–15
[Vegetative neuropathy and pressure regulation in diabetics] Chanudet X, et al. Arch Mal Coeur 1989 Jul;82(7):1147–51 (Eng. Abstr.) (Fre)
[Peripheral flow in uncomplicated diabetes mellitus (letter)] Savin E, et al. J Mal Vasc 1990;15(2):204 (Fre)
[Effect of puberty on the development of diabetic microangiopathy] Vincze P, et al. Orv Hetil 1990 Jan 14; 131(2):55–8 (Eng. Abstr.) (Hun)
[Hemorheological factors and diabetic arterial and arteriolar diseases] Pozza G, et al. Ric Clin Lab 1989;19 Suppl 1:53–7 (Ita)
[Diabetic cardiac dysautonomia. Clinical and pharmacologic evaluation] Succi E, et al. Arq Bras Cardiol 1989 May; 52(5):261–70 (Eng. Abstr.) (Por)
[Nature and mechanism of hemodynamic changes in fetuses of mothers with various types of diabetes mellitus] Badalian SS. Akush Ginekol (Mosk) 1989 Sep;(9):39–42 (Eng. Abstr.) (Rus)
[Blood flow "stealing" phenomenon in the foot as one of the causes of ischemia of the toes] Krakovskiĭ IA. Vestn Khir 1989 Nov;143(11):42–3 (Eng. Abstr.) (Rus)
[Determination of the steno-occlusive degree using non-invasive methods in diabetic patients with peripheral arterial insufficiency] Ley Pozo J, et al. Angiologia 1989 Sep–Oct;41(5):171–6 (Eng. Abstr.) (Spa)
[Silent myocardial ischemia during Holter monitoring in patients with diabetes mellitus] Marín Huerta E, et al. Rev Esp Cardiol 1989 Oct;42(8):519–29 (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

A case for oral insulin therapy in the prevention of diabetic micro- and macroangiopathy. Gwinup G, et al. Int J Artif Organs 1990 Jul;13(7):393–5 (26 ref.)
Streptozotocin-induced diabetes in rat. III. Antioxidant protection of vascular complications by flunarizine and aligeron. Somova L, et al. Methods Find Exp Clin Pharmacol 1989 Oct;11(10):607–12
[Macroangiopathy and type 2 diabetes mellitus: significance of Diamicron] Lesobre B. Journ Annu Diabetol Hotel Dieu 1990;:325–34 (38 ref.) (Fre)

RADIOTHERAPY

[The effect of laser irradiation on the functional state of the cardiovascular system in diabetes mellitus] Vernigorodskiĭ VS. Sov Med 1990;(3):62–4 (Rus)

SURGERY

Predictive value of quantitative dipyridamole-thallium scintigraphy in assessing cardiovascular risk after vascular surgery in diabetes mellitus. Lane SE, et al. Am J Cardiol 1989 Dec 1;64(19):1275–9
Saphenous vein in situ bypass. Knighton DR, et al. Am J Surg 1990 Sep;160(3):294–9 (13 ref.)
A multivariate analysis of determinants of wound healing in patients after amputation for peripheral vascular disease. van den Broek TA, et al. Eur J Vasc Surg 1990 Jun; 4(3):291–5
The correlation of peroperative outflow resistance measurements with patency 109 infrainguinal arterial reconstructions. Vos GA, et al. Eur J Vasc Surg 1989 Dec; 3(6):539–42
Diabetic foot amputations. Part III: Midfoot. Gazivoda PL, et al. J Foot Surg 1990 May–Jun;29(3):244–9
The Syme amputation: success in elderly diabetic patients with palpable ankle pulses. Francis H 3d, et al. J Vasc Surg 1990 Sep;12(3):237–40
Efficacy of the dorsal pedal bypass for limb salvage in diabetic patients: short-term observations. Pomposelli FB Jr, et al. J Vasc Surg 1990 Jun;11(6):745–51; discussion 751–2
Foot salvage in arteriolosclerotic and diabetic patients by free flaps after vascular bypass: report of two cases. Shenaq SM, et al. Microsurgery 1989;10(4):310–4
Current concepts in pancreas transplantation. Bartoš V. Recenti Prog Med 1990 Feb;81(2):88–93 (50 ref.)
[Surgical treatment of peripheral arterial occlusive disease in diabetes mellitus; in situ saphenous vein bypass versus reverse bypass procedure—a retrospective study] Sandmann W, et al. Vasa 1990;19(1):47–53 (Eng. Abstr.) (Ger)
[Results of therapy following lumbar sympathectomy. A retrospective study over the course of 10 years] Schütter FW, et al. Vasa 1990;19(1):40–6 (Eng. Abstr.) (Ger)
[Rehabilitation of leg amputees] Döhler K, et al. Z Arztl Fortbild (Jena) 1989;83(19):949–51 (Ger)
[Reconstruction possibilities in obliterative arterial diseases in diabetics] Czenkár B, et al. Orv Hetil 1990 Apr 29; 131(17):899–903 (Eng. Abstr.) (Hun)
[Coronary artery disease and the results of coronary bypass surgery in diabetics] Matsui K, et al. Nippon Kyobu Geka Gakkai Zasshi 1990 Jan;38(1):16–21 (Eng. Abstr.) (Jpn)
[Use of CO2 laser in the treatment of suppurative-necrotic lesions of the foot in patients with diabetes mellitus] Danil'iants EV, et al. Khirurgiia (Mosk) 1989 Oct;(10):71–4 (Eng. Abstr.) (Rus)
[The treatment of diabetics with ulcerative-necrotic lesions of the legs] Borodianskiĭ VS, et al. Vestn Khir 1989 Oct; 143(10):143–7 (Rus)
[Regional blood flow velocity as a prognostic factor in the treatment of suppurative and necrotic lesions of the foot in diabetes mellitus] Kuleshov EV, et al. Vestn Khir 1989 Jul;143(7):52–3 (Rus)
[Improved care of patients with diabetes in primary health care decreases the number of amputations] Falkenberg M.

Lakartidningen 1989 Oct 11;86(41):3450–3 (Swe)
[Is the number of amputations among patients with diabetes really decreasing?] Lithner F. **Lakartidningen** 1989 Oct 11; 86(41):3449 (Swe)

THERAPY

Treatment of hypertension in diabetes mellitus. Houston MC. **Am Heart J** 1989 Oct;118(4):819–29 (57 ref.)
Hyperbaric oxygen therapy in chronic vascular wound management. Wattel F, et al. **Angiology** 1990 Jan; 41(1):59–65
How effective is cushioned therapeutic footwear in protecting diabetic feet? A clinical study. Chantelau E, et al. **Diabetic Med** 1990 May;7(4):355–9
Diabetic heart disease—current problems and their management. Das AK. **J Assoc Physicians India** 1989 Feb; 37(2):163–5 (25 ref.)
Five-year results of iliac and femoropopliteal angioplasty in diabetic patients. Stokes KR, et al. **Radiology** 1990 Mar; 174(3 Pt 2):977–82
[Management and treatment of acute myocardial ischemia in diabetic patients] Aumont MC, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:105–15 (37 ref.) (Fre)
[Management of tissue necrosis of the foot in diabetic patients] Priollet P. **Journ Annu Diabetol Hotel Dieu** 1990; :117–27 (27 ref.) (Fre)
[Diabetic microangiopathy] Mizuno Y. **Kokyu To Junkan** 1989 Jul;37(7):733–9 (Jpn)
[Possibilities of hemosorption in the compensation of cardiac dysfunction in patients with ischemic heart disease associated with diabetes mellitus] Trusov VV, et al. **Kardiologiia** 1990 Feb;30(2):58–61 (Eng. Abstr.) (Rus)

DIABETIC COMA

Hyperosmolar hyperglycemic nonketotic coma. Pope DW, et al. **Emerg Med Clin North Am** 1989 Nov;7(4):849–57 (43 ref.)
[Management and treatment of hyperosmolar coma] Assan R, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:61–74 (61 ref.) (Fre)
[Hyperosmolar hyperglycemic coma in a 10-year-old patient] Zbojan J, et al. **Cesk Pediatr** 1990 Jan;45(1):21–3 (Eng. Abstr.) (Slo)
[Hyperosmolar nonketotic coma. A report of a case in a female child] Jiménez Torrecilla A, et al. **An Esp Pediatr** 1990 Mar;32(3):265–7 (Spa)

BLOOD

Prompt recovery of plasma arginine vasopressin in diabetic coma after intravenous infusion of a small dose of insulin and a large amount of fluid. Ishikawa S, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):455–61
Glucose metabolism in a patient with insulinoma complicated by hyperosmolar non-ketotic state. Skrha J, et al. **Diabetic Med** 1990 May;7(4):361–3
[Correlation between erythrocyte aggregation and some hemorheological variables in a case of hyperosmolar nonketotic coma] Giansanti R, et al. **Ric Clin Lab** 1989;19 Suppl 1:181–3 (Ita)

COMPLICATIONS

Asymptomatic, nonketotic, severe hyperglycemia with hyponatremia. Popli S, et al. **Arch Intern Med** 1990 Sep; 150(9):1962–4
Hyperosmolar non-ketotic diabetic decompensation [letter; comment] Paterson KR, et al. **Br J Hosp Med** 1990 Feb; 43(2):107 Comment on: Br J Hosp Med 1989 Sep;42(3):237.
Hyperglycaemic hyperosmolar syndrome complicating severe pregnancy-induced hypertension. Case report. Raziel A, et al. **Br J Obstet Gynaecol** 1989 Nov; 96(11):1355–6
Lateral pontine and extrapontine myelinolysis associated with hypernatremia and hyperglycemia. McComb RD, et al. **Clin Neuropathol** 1989 Nov–Dec;8(6):284–8 (24 ref.)
[Speech blockade as an expression of partial crisis status. Initial manifestation of hyperosmolar diabetic decompensation] Gil-Néciga E, et al. **Neurologia** 1987 Jan–Feb;2(1):38–40 (Eng. Abstr.) (Spa)

DIAGNOSIS

Diagnosis and treatment of diabetic coma. Lambert AE. **Acta Clin Belg** 1987;42(4):293–7
Extreme hyperglycemia and hyperosmolarity [letter] Soni A, et al. **Diabetes Care** 1990 Feb;13(2):181–2
[Metabolic encephalopathy in the aged] Muto Y, et al. **Nippon Naika Gakkai Zasshi** 1990 Apr 10;79(4):468–74 (Jpn)
[Hyperglycemic hyperosmolar nonketotic coma] Jaromczyk-Slisz J, et al. **Wiad Lek** 1990 Apr 15;43(8):360–4 (Eng. Abstr.) (Pol)
[The use of a computer for the diagnosis of comatose states in diabetics (a differential diagnostic algorithm)] Sokol AE, et al. **Ter Arkh** 1989;61(12):70–2 (Eng. Abstr.) (Rus)

DRUG THERAPY

Comparison of intramuscular glucagon and intravenous dextrose in the treatment of hypoglycaemic coma in an accident and emergency department. Patrick AW, et al. **Arch Emerg Med** 1990 Jun;7(2):73–7
[Low-dose dopamine treatment of patients in nonketotic hyperosmolar hyperglycemic coma] Shimoda M, et al. **Neurol Med Chir (Tokyo)** 1989 Oct;29(10):890–4 (Eng. Abstr.) (Jpn)
[Indications for insulin treatment] Itoh H, et al. **Nippon Rinsho** 1989 Nov;47(11):2560–4 (Jpn)
[Experience with the treatment of diabetic coma] Khazipova LG, et al. **Klin Med (Mosk)** 1990 Jan;68(1):106–8 (Eng. Abstr.) (Rus)

ETIOLOGY

[Diabetic coma] Beyer J, et al. **Internist (Berl)** 1990 May; 31(5):W51–63 (Ger)
[Non-ketotic hyperosmolar diabetic coma in neurosurgical cases; review of 7 cases] Matsumura A, et al. **No Shinkei Geka** 1990 Jan;18(1):33–8 (26 ref.) (Eng. Abstr.) (Jpn)
[Non-ketoacidic hyperosmolar diabetic decompensation caused by hyperthyroidism. An infrequent fact (letter)] Gómez-Balaguer M, et al. **Med Clin (Barc)** 1990 Jan 27; 94(3):116–7 (Spa)

METABOLISM

[Acute metabolic complications in diabetes mellitus] Giannuzzi U. **Clin Ter** 1989 Dec 15;131(5):335–8 (Eng. Abstr.) (Ita)

MORTALITY

Deaths associated with diabetic ketoacidosis and hyperosmolar coma. 1973–1988 [see comments] Hamblin PS, et al. **Med J Aust** 1989 Oct 16;151(8):439, 441–2, 444 Comment in: Med J Aust 1990 Mar 19;152(6):327–8.

PATHOLOGY

[Postmortem diagnosis of fatal diabetic metabolic dyscontrol: what is the significance of cerebrospinal fluid and vitreous body total values and HbA1?] Ritz S, et al. **Pathologe** 1990 May;11(3):158–65 (Ger)

PHYSIOPATHOLOGY

Tap-induced blink reflex and central nervous system dysfunction in diabetics with hyperosmolality. Tachibana Y, et al. **Eur Neurol** 1990;30(3):145–8

THERAPY

Prompt recovery of plasma arginine vasopressin in diabetic coma after intravenous infusion of a small dose of insulin and a large amount of fluid. Ishikawa S, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):455–61
Diabetic emergencies. Alberti KG. **Br Med Bull** 1989 Jan; 45(1):242–63 (43 ref.)
Treatment of hyperglycaemic hyperosmolar non-ketotic syndrome. Levine SN, et al. **Drugs** 1989 Sep;38(3):462–72 (26 ref.)
Concepts of fluid therapy in diabetic ketoacidosis and hyperosmolar hyperglycemic nonketotic coma. Ellis EN. **Pediatr Clin North Am** 1990 Apr;37(2):313–21 (36 ref.)
[Diabetic ketoacidosis and hyperglycemic hyperosmolar nonketotic coma—a reappraisal after seven years] Chang FY, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Aug; 44(2):121–8 (Eng. Abstr.) (Chi)
[Diabetic ketoacidosis and hyperglycemic hyperosmolar nonacidotic syndrome in type I and II diabetics] Kmoch J, et al. **Vnitr Lek** 1989 Nov;35(11):1111–9 (Eng. Abstr.) (Cze)
[A case report of hyperosmolar hyperglycemic non-ketotic coma after aortic valve replacement] Horiuchi A, et al. **Kyobu Geka** 1990 May;43(5):397–400 (Eng. Abstr.) (Jpn)
[Intensive therapy of diabetic (ketoacidotic) coma] Zhdanov GG, et al. **Anesteziol Reanimatol** 1990 May–Jun;(3):59–63 (Eng. Abstr.) (Rus)
[Non-ketoacidotic hyperosmolar diabetic decompensation: should parenteral hydroelectrolytic restoration always be used? (letter)] Gómez-Balaguer M, et al. **Med Clin (Barc)** 1989 Oct 28;93(13):518–9 (Spa)
[Nonketotic hyperosmolar diabetic decompensation treated with oral rehydration (letter)] Gómez-Balaguer M, et al. **Med Clin (Barc)** 1990 Mar 31;94(12):479 (Spa)
[Enteral rehydration in nonketotic hyperosmolar diabetic decompensation (letter)] Pascual Velasco F. **Med Clin (Barc)** 1990 Mar 31;94(12):478–9 (Spa)

DIABETIC DIET

Dietary management of nursing home residents with non-insulin-dependent diabetes mellitus. Coulston AM, et al. **Am J Clin Nutr** 1990 Jan;51(1):67–71
Frozen desserts and glycemic response in well-controlled NIDDM patients. Bukar J, et al. **Diabetes Care** 1990 Apr; 13(4):382–5
Trends in treatment among unselected geographically defined diabetic population [letter; comment] Ratzmann KP, et al. **Diabetes Care** 1990 May;13(5):545–6 Comment on: Diabetes Care 1988 Jul–Aug;11(7):558–62.
Lipoprotein subfraction composition in non-obese newly diagnosed non-insulin dependent diabetes after treatment with diet and glibenclamide. Billingham MS, et al. **Diabetes Res** 1989 May;11(1):13–20
Korean Food Exchange System. Paik HY, et al. **Diabetes Res Clin Pract** 1990 May–Jun;9(2):103–7
A comparison between the diets of pregnant diabetic women and pregnant non-diabetic women. Anderson AS, et al. **Diabetic Med** 1990 Jun;7(5):452–6
Effects of intensive dietary treatment on insulin-stimulated skeletal muscle glycogen synthase activation and insulin secretion in newly presenting type 2 diabetic patients. Johnson AB, et al. **Diabetic Med** 1990 Jun;7(5):420–8
Food and nutrient intakes in Swedish diabetic children. Samuelson G, et al. **Eur J Clin Nutr** 1989 Nov;43(11):801–3
Diet therapy among young diabetics in the Philippines. Fernando RE. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S67–70
Nutrition and insulin dependent diabetes in the young: general approaches. Pinelli L, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S63–5
Effect of anti-diabetic treatment on high density lipoprotein-composition and lecithin:cholesterol acyltransferase activity—a comparison between insulin, sulfonylurea and diet alone treatments. Iizuka T. **Jpn J Med** 1989 Jul–Aug;28(4):457–61
Comparison of glycemic response and insulin requirements after mixed meals of equal carbohydrate content in healthy, type-1, and type-2 diabetic man. Schrezenmeir J, et al. **Klin Wochenschr** 1989 Oct 2;67(19):985–94
[Fiber in the diabetic diet] Perušičová J. **Vnitr Lek** 1989 Jul; 35(7):710–4 (Eng. Abstr.) (Cze)
[New knowledge of diet therapy of type 2 (non-insulin-dependent) diabetes] Bruns W. **Z Gesamte Inn Med** 1990 May 15;45(10):290–4 (29 ref.) (Eng. Abstr.) (Ger)
[Semifasting and type II diabetes mellitus] Sinagra D. **Recenti Prog Med** 1990 Feb;81(2):79–82 (11 ref.) (Eng. Abstr.) (Ita)
[Effect of biguanide derivatives (phenformin) on glucose tolerance in "borderline" and asymptomatic ("chemical") diabetes mellitus. Results of a 5-year prospective study] Kasperska-Czyżykowa T, et al. **Pol Arch Med Wewn** 1987 Nov;78(5):241–50 (Eng. Abstr.) (Pol)
[Nutrition and physical exercise in diabetes mellitus] Caldeira J, et al. **Acta Med Port** 1989 Sep;Suppl 1:5S–8S (8 ref.) (Eng. Abstr.) (Por)
[Diabetes mellitus and pregnancy—treatment] Geraldes E. **Acta Med Port** 1989 Sep;Suppl 1:31S–32S (5 ref.) (Eng. Abstr.) (Por)
[Treatment of diabetes mellitus in children] Kasatkina EP. **Pediatriia** 1990;(1):92–7 (Rus)
[The importance of food and drug plant factors in the combined treatment of patients with type-II diabetes mellitus] Korotkova VD, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):24–9 (Eng. Abstr.) (Rus)
[Diet and non-insulin-dependent diabetes mellitus: historic and current perspectives] Fernández Soto ML, et al. **Rev Clin Esp** 1990 Feb;186(3):131–3 (26 ref.) (Eng. Abstr.) (Spa)
[Recommendations from an expert group: treatment of non-insulin-dependent diabetes mellitus] **Lakartidningen** 1990 Mar 14;87(11):865–9 (Swe)

ADVERSE EFFECTS

Dietary supplementation with n-3 fatty acids may impair glucose homeostasis in patients with non-insulin-dependent diabetes mellitus. Vessby B, et al. **J Intern Med** 1990 Aug; 228(2):165–71

PSYCHOLOGY

Abnormal eating attitudes in young insulin-dependent diabetics. Steel JM, et al. **Br J Psychiatry** 1989 Oct; 155:515–21
Changes in eating attitudes during the first year of treatment for diabetes. Steel JM, et al. **J Psychosom Res** 1990; 34(3):313–8

DIABETIC NEPHROPATHIES

Quiz of the month. Norris SH. **Am J Nephrol** 1990;10(3):242, 259–60
Diabetic nephropathy. An update [see comments] Reddi AS, et al. **Arch Intern Med** 1990 Jan;150(1):31–43 (178 ref.) Comment in: Arch Intern Med 1990 Jan;150(1):26–8.
Diabetic nephropathy. The internist's role [comment] Rocher L. **Arch Intern Med** 1990 Jan;150(1):26–8 Comment on: Arch Intern Med 1990 Jan;150(1):31–43.
Diabetic nephropathy. Drury PL, et al. **Br Med Bull** 1989 Jan;45(1):127–47 (78 ref.)
Diabetes and the kidney. 24th Workshop for Dialysis Physicians. March 10–12, 1988, Prien, Chiemsee. Proceedings. **Contrib Nephrol** 1989;73:1–228
Diabetic nephropathy. **Semin Nephrol** 1990 May; 10(3):183–293
[Current approach in the prevention and treatment of diabetic nephropathy] Castiglioni A, et al. **Recenti Prog Med** 1990 Feb;81(2):99–105 (29 ref.) (Eng. Abstr.) (Ita)

BLOOD

Enhanced plasma and intracellular levels of main granulocyte components in diabetics on dialysis. Hörl WH, et al. **Blood Purif** 1989;7(6):314–23
Response of plasma immunoreactive active renin, inactive renin, plasma renin activity, and aldosterone to

hemodialysis in patients with diabetic nephropathy. Sasamura H, et al. **Clin Nephrol** 1990 Jun;33(6):288–92
Leucocyte Na+/H+ antiport activity in type 1 (insulin–dependent) diabetic patients with nephropathy. Ng LL, et al. **Diabetologia** 1990 Jun;33(6):371–7
Relation between serum cholesterol and diabetic nephropathy [letter] Mulec H, et al. **Lancet** 1990 Jun 23;335(8704):1537–8
Relation between serum cholesterol and diabetic nephropathy [letter] Olczak SA. **Lancet** 1990 Jul 28;336(8709):254
[Value of plasma fructosamine in non–diabetic and diabetic chronic renal failure] Delattre J, et al. **Presse Med** 1989 Nov 4;18(36):1781–4 (Eng. Abstr.) (Fre)
[Prostacyclin–like activity modifying plasma factors in diabetic microangiopathy] Magyari M, et al. **Fortschr Ophthalmol** 1990;87(3):269–73 (Eng. Abstr.) (Ger)
[The value of fructosamine in hemodialysis patients] Külenburg E, et al. **Wien Klin Wochenschr Suppl** 1990; 180:11–3; discussion 32–3 (Eng. Abstr.) (Ger)
[Determination of fructosamine in chronic kidney diseases (dialysis–dependent patients)] Peheim E, et al. **Wien Klin Wochenschr Suppl** 1990;180:13–20; discussion 32–3 (Eng. Abstr.) (Ger)
[The suitability of the particle count apparatus laboratory scale PSL–1 (Medicor, Budapest) for the sensitive detection of an increased spontaneous aggregation readiness of thrombocytes] Mindner K, et al. **Z Med Lab Diagn** 1989; 30(6):341–2 (Ger)

CLASSIFICATION

[Diabetic nephropathy. I.] Serban V, et al. **Rev Med Interna [Med Interna]** 1989 May–Jun;41(3):209–20 (0 ref.) (Eng. Abstr.) (Rum)

COMPLICATIONS

The aetiology of chronic renal failure in adult Sudanese patients. Abboud OL, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):411–4
Incidence of transient nephrotic syndrome during pregnancy in diabetic women with and without pre–existing microalbuminuria [see comments] Biesenbach G, et al. **BMJ** 1989 Aug 5;299(6695):366–7 Comment in: BMJ 1989 Sep 30;299(6703):853.
Captopril and hypertension in black diabetics [letter; comment] Burr AJ, et al. **BMJ** 1989 Aug 12; 299(6696):456–7 Comment on: BMJ 1989 Jul 22;299(6693):230–3.
Dipyridamole reduces urinary albumin excretion in diabetic patients with normo– or microalbuminuria. Aizawa T, et al. **Clin Nephrol** 1990 Mar;33(3):130–5
Patterns of hyperinsulinaemia in type 1 diabetic patients with and without nephropathy. Pickup JC, et al. **Diabetic Med** 1989 Nov;6(8):685–91
Effectiveness of intradialytic parenteral nutrition in diabetic patients with end–stage renal disease. Madigan KM, et al. **J Am Diet Assoc** 1990 Jun;90(6):861–3
Low–protein diet and progression of renal disease in diabetic nephropathy [letter] Viberti GC, et al. **Lancet** 1990 Mar 3;335(8688):550–1
Acute renal failure following massive mannitol infusion. Rello J, et al. **Nephron** 1989;53(4):377–8
Opposite effects of diabetes on nephrotoxic and ischemic acute tubular necrosis. Wald H, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):51–6
On the pathogenesis of arterial blood pressure elevation early in the course of diabetic nephropathy. Hommel E, et al. **Scand J Clin Lab Invest** 1989 Oct;49(6):537–44
Acute renal failure caused by low–osmolar radiographic contrast media in patients with diabetic nephropathy. Spångberg–Viklund B, et al. **Scand J Urol Nephrol** 1989; 23(4):315–7
Renal failure in diabetes: a substantive problem in provision of health care. Friedman EA. **Verh K Acad Geneeskd Belg** 1989;51(2):81–149; discussion 149–51 (161 ref.)
[Emphysematous pyelonephritis and perinephritis] Guillonneau B, et al. **Ann Urol (Paris)** 1989;23(6):512–6 (Eng. Abstr.) (Fre)
[Effect on diabetic microalbuminuria of anti–hypertensive treatment (letter)] Sert C, et al. **Presse Med** 1990 Mar 17; 19(10):471 (Fre)
[Kyrle disease in juvenile diabetes mellitus and chronic renal failure] Detmar M, et al. **Z Hautkr** 1990 Jan;65(1):53–61 (Eng. Abstr.) (Ger)
[A case of renal cell carcinoma on chronic hemodialysis] Saito M, et al. **Hinyokika Kiyo** 1989 Aug;35(8):1379–81 (Eng. Abstr.) (Jpn)
[Diabetic nephropathy. IIa.] Serban V, et al. **Rev Med Interna [Med Interna]** 1989 Jul–Aug; 41(4):295–306 (77 ref.) (Rum)
[A case of diabetic glomerulosclerosis associated with chronic glomerulonephritis] Shishkin AN, et al. **Ter Arkh** 1989;61(6):148–9 (Rus)

CONGENITAL

Fibrinolytic responses to 1–desamino–8–D–arginine–vasopressin in patients with congenital nephrogenic diabetes insipidus. Knoers N, et al. **Nephron** 1990;54(4):322–6

DIAGNOSIS

Diabetic hypouricemia as an indicator of clinical nephropathy. Shichiri M, et al. **Am J Nephrol** 1990; 10(2):115–22
Proliferative retinopathy and nephropathy at presentation in young insulin dependent diabetics. O'Hare JA. **BMJ** 1990 Mar 3;300(6724):579–80
Microalbuminuria—a marker of the risk of developing nephropathy in insulin–dependent diabetes. Dryáková M, et al. **Czech Med** 1989;12(3):181–8
Efficacy of endogenous creatinine clearance in diabetic patients. Eriksson CG, et al. **Diabetes Res** 1989 Dec; 12(4):183–7
Urinary IgG4: an additional parameter in characterizing patients with incipient diabetic nephropathy. Gambardella S, et al. **Diabetes Res** 1989 Apr;10(4):153–7
Albumin index in spot urine from outpatients with noninsulin–dependent diabetes mellitus. Umeda F, et al. **Endocrinol Jpn** 1989 Oct;36(5):747–54
Clinical characteristics associated with microalbuminuria in an adult diabetic population. Tung P, et al. **J Diabetic Complications** 1990 Jan–Mar;4(1):15–20
Early detection of nephropathy in juvenile diabetes. Morgese G, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):139–40
Unusual causes of renal failure in diabetics: two case studies. VenkataRaman TV, et al. **J Okla State Med Assoc** 1990 Apr;83(4):164–8
[Microalbuminuria—a risk indicator for the development of nephropathy in insulin–dependent diabetics] Dryáková M, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1372–6 (Eng. Abstr.) (Cze)
[Early diagnosis of late complications in juvenile diabetics] Dvořáková L, et al. **Cas Lek Cesk** 1990 Feb 16; 129(7):198–203 (Eng. Abstr.) (Cze)
[Emphysematous pyelonephritis] Heritier P, et al. **J Urol (Paris)** 1990;96(1):60–1 (Eng. Abstr.) (Fre)
[Microalbuminuria and diabetic nephropathy. Detection and correlation with other degenerative complications] Thivolet C, et al. **Presse Med** 1990 Jun 9;19(23):1075–80 (Eng. Abstr.) (Fre)
[Diabetic nephropathy] Morikawa S, et al. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):402–5 (Jpn)
[Electrophoretic analysis of urinary glycoproteins in diabetic nephropathy using peroxidase–lectins] Nakashima Y, et al. **Nippon Jinzo Gakkai Shi** 1989 Nov;31(11):1133–41 (Eng. Abstr.) (Jpn)
[Diagnostic procedure and treatment of diabetic nephropathy] Hatano M, et al. **Nippon Rinsho** 1989 Nov; 47(11):2510–5 (Jpn)
[Urinary enzymes as a marker of the preclinical stage of diabetic nephropathy] Dedov II, et al. **Ter Arkh** 1989; 61(12):73–6 (Eng. Abstr.) (Rus)
[Early detection of nephroangiopathy in patients with diabetes mellitus and approaches to its correction] Spesivtseva VG, et al. **Ter Arkh** 1989;61(6):67–9 (Eng. Abstr.) (Rus)

DIET THERAPY

High linoleic acid diets ameliorate diabetic nephropathy in rats. Barcelli UO, et al. **Am J Kidney Dis** 1990 Sep; 16(3):244–51
Restriction of dietary protein and progression of renal failure in diabetic nephropathy [published erratum appears in Lancet 1989 Dec 23–30;2(8678–8679):1540] [see comments] Walker JD, et al. **Lancet** 1989 Dec 16;2(8677):1411–5 Comment in: Lancet 1990 Feb 17;335(8686):411–2.
A high cholesterol diet ameliorates renal tubular lesions in diabetic rats. Reyes AA, et al. **Proc Soc Exp Biol Med** 1990 Jul;194(3):177–85
Low protein diets and diabetic nephropathy. Anderson S. **Semin Nephrol** 1990 May;10(3):287–93 (442 ref.)

DRUG THERAPY

Enalapril and metoprolol in diabetic nephropathy [letter] **BMJ** 1990 May 26;300(6736):1399
Contrasting effects of enalapril and metoprolol on proteinuria in diabetic nephropathy [published erratum appears in BMJ 1990 May 5;300(6733):1170] Björck S, et al. **BMJ** 1990 Apr 7;300(6729):904–7
Enalapril and metoprolol in diabetic nephropathy. Sawicki P, et al. **BMJ** 1990 Jun 2;300(6737):1466
Renal function, glycemic control and perindopril in diabetic patients. Brichard S, et al. **Clin Exp Hypertens [A]** 1989; 11 Suppl 2:545–54
Converting enzyme–inhibition in diabetic nephropathy. Mathiesen ER, et al. **Contrib Nephrol** 1989;73:160–1; discussion 161–2
Captopril in diabetic nephropathy. Fong M, et al. **DICP** 1990 Mar;24(3):260–1
ACE inhibitors in the prevention and therapy of diabetic nephropathy. What is their role? Kelleher CC. **Drugs** 1990 May;39(5):639–45 (64 ref.)
The effect of antihypertensive treatment on kidney function in insulin–dependent (type I) diabetics with renal failure. Zander E, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):70–6
Effects of ACE–inhibitors in hypertensive and normotensive diabetic patients with diabetic nephropathie. Henrichs HR. **Horm Metab Res Suppl** 1990;22:57–65 (50 ref.)
Renal effects of converting enzyme inhibitors in hypertension and diabetes. Anderson S. **J Cardiovasc Pharmacol** 1990; 15 Suppl 3:S11–5 (29 ref.)
The effect of beta–blockade and angiotensin converting enzyme inhibition on kidney function in diabetic nephropathy. Hommel E. **J Hypertens Suppl** 1989 Sep; 7(7):S49–51 (20 ref.)
Effect of camostat mesilate for the treatment of advanced diabetic nephropathy. Matsubara M, et al. **J Lab Clin Med** 1990 Aug;116(2):206–10
Angiotensin–converting enzyme inhibitors in the treatment of diabetic glomerulopathy. Myers BD, et al. **Nephron** 1990; 55 Suppl 1:27–9
Initial effect of enalapril on kidney function in patients with moderate to severe chronic nephropathy. Kamper AL, et al. **Scand J Urol Nephrol** 1990;24(1):69–73
Recombinant human erythropoietin in the diabetic patient. Friedman EA, et al. **Semin Nephrol** 1990 Mar;10(2 Suppl 1):35–9
[Preliminary report of efficacy of diabetic polyneuropathy treated with large dose inositol] Cai F, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):201–3 (Eng. Abstr.) (Chi)
[Treatment of proteinuria in diabetic patients with nephropathy] Satoh K. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):905–12 (Jpn)
[Specificity of drug therapy of hypertension in patients with diabetes mellitus] Tatoń J. **Pol Tyg Lek** 1988 Dec 19–26; 43(51–52):1661–7 (Pol)

ENZYMOLOGY

Decreased proteinase activity in isolated glomeruli of streptozotocin diabetic rats. Teschner M, et al. **Am J Nephrol** 1989;9(6):464–9
Serum angiotensin converting enzyme activity in type 2 (non–insulin–dependent) diabetic patients with chronic glomerulonephritis. Ninomiya Y, et al. **Diabetes Res** 1989 Jul;11(3):121–4

EPIDEMIOLOGY

Chronic renal failure in non–insulin–dependent diabetes mellitus. A population–based study in Rochester, Minnesota. Humphrey LL, et al. **Ann Intern Med** 1989 Nov 15;111(10):788–96
Prevalence and risk factors for micro– and macroalbuminuria in diabetic subjects and entire population of Nauru. Collins VR, et al. **Diabetes** 1989 Dec;38(12):1602–10
Factors associated with avoidance of severe complications after 25 yr of IDDM. Pittsburgh Epidemiology of Diabetes Complications Study I. Orchard TJ, et al. **Diabetes Care** 1990 Jul;13(7):741–7
The epidemiology of diabetic nephropathy. Pugh JA. **Diabetes Metab Rev** 1989 Nov;5(7):531–45 (112 ref.)
How common is diabetic nephropathy? Gill GV. **Diabetes Res** 1989 Apr;10(4):197–8
Persistent albuminuria as an index of diabetic nephropathy in type 2 diabetic patients in Osaka, Japan–incidence, risk factors, prognosis and causes of death. Sasaki A, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):299–306
Using insulin U 100 conversion to estimate the prevalence and problems of insulin–treated diabetic patients in the Republic of Seychelles. Sullivan FM, et al. **Diabetologia** 1990 Mar;33(3):184–5
Diabetic end–stage renal disease [letter] **N Engl J Med** 1990 Apr 5;322(14):1008–10
Disparities in incidence of diabetic end–stage renal disease according to race and type of diabetes [see comments] Cowie CC, et al. **N Engl J Med** 1989 Oct 19;321(16):1074–9 Comment in: N Engl J Med 1989 Oct 19;321(16):1121–2.
Diabetic renal disease in blacks—inevitable or preventable? [editorial; comment] Rostand SG. **N Engl J Med** 1989 Oct 19;321(16):1121–2 Comment on: N Engl J Med 1989 Oct 19;321(16):1074–9.
End stage diabetic renal disease in Polynesians in New Zealand [letter] Cundy T. **N Z Med J** 1990 Aug 8; 103(895):381–2
Diabetic renal disease in Pima Indians. Nelson RG, et al. **Transplant Proc** 1989 Dec;21(6):3913–5

ETHNOLOGY

Racial differences in the incidence of end–stage renal disease in types I and II diabetes mellitus. Stephens GW, et al. **Am J Kidney Dis** 1990 Jun;15(6):562–7

ETIOLOGY

Early complications of diabetes mellitus [letter; comment] **Arch Dis Child** 1990 Feb;65(2):247 Comment on: Arch Dis Child 1989 Jul;64(7):984–91.
Natural history and treatment of diabetic nephropathy. Viberti GC. **Contrib Nephrol** 1989;75:117–26 (40 ref.)
Update on diabetic nephropathy in NIDDM. Dere WH, et al. **Geriatrics** 1990 Jul;45(7):48–52, 55–6 (18 ref.)
A study of patients with diabetes mellitus (type 1) and end–stage renal failure: tobacco usage may increase risk of nephropathy and death. Stegmayr BG. **J Intern Med** 1990 Aug;228(2):121–4
What causes diabetic renal failure? Pinter GG, et al. **Lancet** 1990 Mar 10;335(8689):590–1
Diabetic nephropathy in insulin–dependent diabetes mellitus: pathogenesis and treatment strategies. Bilo HJ, et al. **Neth J Med** 1990 Feb;36(1–2):74–85 (128 ref.)
[The prevalence of late complications of type II diabetes mellitus (published erratum appears in Ned Tijdschr

Geneeskd 1990 Mar 10;134(10):512)] Verhoeven S, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):283–7 (Eng. Abstr.) (Dut)

[Roles of arterial hypertension and diabetes mellitus in early nephropathy] Wohlhuter C, et al. **Arch Mal Coeur** 1989 Jul;82(7):1195–8 (Eng. Abstr.) (Fre)

[Diabetic nephropathy. Pathogenetic, diagnostic and therapeutic concepts] Kleophas W, et al. **Fortschr Med** 1990 May 30;108(16):309–12 (0 ref.) (Eng. Abstr.) (Ger)

[De novo diabetic glomerulosclerosis in kidney transplants] Ditscherlein G, et al. **Verh Dtsch Ges Pathol** 1989;73:238–41 (Eng. Abstr.) (Ger)

[Causes and treatment of diabetic complications] Sakamoto N. **Nippon Naika Gakkai Zasshi** 1989 Nov;78(11):1540–3 (Jpn)

[Phosphoinositides and their role in the development of chronic complications of diabetes mellitus] Czyżyk A. **Pol Arch Med Wewn** 1989 Mar;81(3):129–36 (Pol)

GENETICS

Genetic factors in the development of nephropathy in diabetic Lewis and DA rats. Payton CD, et al. **Clin Sci** 1989 Nov;77(5):521–7

Familial predisposition to renal disease in two generations of Pima Indians with type 2 (non–insulin–dependent) diabetes mellitus. Pettitt DJ, et al. **Diabetologia** 1990 Jul; 33(7):438–43

IMMUNOLOGY

Assessment of the role of the immunoglobulin isotypes in the development of diabetic nephropathy in untreated streptozotocin–induced diabetic rats. Thiele GM, et al. **Diabetes Res** 1989 Sep;12(1):15–24

METABOLISM

Pharmacokinetics of insulin and oral antidiabetic drugs in renal insufficiency. Hasselblatt A. **Contrib Nephrol** 1989; 73:139–45; discussion 146 (39 ref.)

The role of angiotensin–II in progressive diabetic glomerulopathy in the rat. Whiteside CI, et al. **Endocrinology** 1989 Oct;125(4):1932–40

Hemodynamic, renal, and humoral effects of the calcium entry blocker nicardipine and converting enzyme inhibitor captopril in hypertensive type II diabetic patients with nephropathy. Stornello M, et al. **J Cardiovasc Pharmacol** 1989 Dec;14(6):851–5

Gastrointestinal absorption of aluminium in diabetic patients on dialysis [letter] Coronel F, et al. **Nephrol Dial Transplant** 1989;4(9):839–40

MORTALITY

Prognosis in diabetic nephropathy [letter; comment] **BMJ** 1989 Aug 26;299(6698):566–7 Comment on: BMJ 1989 Jul 22;299(6693):230–3.

Improved survival in patients with diabetic nephropathy. Mathiesen ER, et al. **Diabetologia** 1989 Dec;32(12):884–6

PATHOLOGY

Should there be an expanded role for kidney biopsy in the management of patients with type I diabetes? Mauer SM, et al. **Am J Kidney Dis** 1990 Aug;16(2):96–100

Glomerular lesions in mice transgenic for growth hormone and insulinlike growth factor–I. I. Relationship between increased glomerular size and mesangial sclerosis. Doi T, et al. **Am J Pathol** 1990 Sep;137(3):541–52

Glomerular structure and function in diabetic nephropathy. Early to advanced stages. Osterby R, et al. **Diabetes** 1990 Sep;39(9):1057–63

A clinical–histological study of individuals with diabetes mellitus and proteinuria. Taft JL, et al. **Diabetic Med** 1990 Mar–Apr;7(3):215–21

Nodular mesangial glomerulosclerosis in patients without manifest diabetes mellitus. Jensen R, et al. **Int Urol Nephrol** 1990;22(1):95–103

Glycogen accumulation in the renal tubular cells of spontaneously occurring diabetic WBN/Kob rats. Tsuchitani M, et al. **J Comp Pathol** 1990 Feb;102(2):179–90

Kidney complications in EMC virus–induced diabetes in conventional DBA/2 male mice. Shichinohe K, et al. **Jikken Dobutsu** 1990 Jan;39(1):113–6

The relationship between glomerular structure and function in insulin–dependent diabetes. Bilous RW. **Nephrologie** 1989;10(4):195–200 (51 ref.)

Constituents of the extracellular matrices in diabetic glomerulosclerosis. Suzuki Y. **Nippon Jinzo Gakkai Shi** 1989 Oct;31(10):1047–54

Histopathological and immunopathological studies on renal involvement in non–obese diabetic (NOD) mice. Watanabe S. **Nippon Jinzo Gakkai Shi** 1989 Oct;31(10):1011–9

Renal histologic changes in diabetes mellitus. Lane PH, et al. **Semin Nephrol** 1990 May;10(3):254–9 (37 ref.)

Renal hypertrophy, growth factors, and nephropathy in diabetes mellitus. Schwieger J, et al. **Semin Nephrol** 1990 May;10(3):242–53 (147 ref.)

Disorganization process in the development of diabetic nodular glomerulosclerosis. Shioi A, et al. **Tohoku J Exp Med** 1989 Dec;159(4):257–75

Murine fetal islet transplants influence renal and retinal pathology. Cuthbertson RA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):967–8

[Immunohistochemical localization of various components of the basal membrane and interstitial collagen in diabetic nephropathy] Nerlich A, et al. **Verh Dtsch Ges Pathol** 1989; 73:133–8 (Eng. Abstr.) (Ger)

[Kidney biopsies in diabetic patients—value of semi–thin layer study] Ditscherlein G. **Z Gesamte Inn Med** 1989 Oct 1;44(19):583–6 (Eng. Abstr.) (Ger)

[Glomerulonephritis in diabetics] Mágori A, et al. **Morphol Igazsagugyi Orv Sz** 1989 Oct;29(4):269–74 (Eng. Abstr.) (Hun)

[Diabetic nephropathy] Oosawa G. **Nippon Jinzo Gakkai Shi** 1989 May;31(5):412–4 (Jpn)

PHYSIOPATHOLOGY

The role of hypertension in the development of nephropathy in type 1 (insulin–dependent) diabetes mellitus. Feldt–Rasmussen B, et al. **Acta Diabetol Lat** 1990 Apr–Jun; 27(2):173–9 (39 ref.)

Diabetic nephropathy: pathophysiology, clinical course and susceptibility. Viberti GC, et al. **Adv Exp Med Biol** 1989; 259:305–24 (77 ref.)

Efficacy of antihypertensive treatment with indapamide in patients with noninsulin–dependent diabetes and persistent microalbuminuria. Gambardella S, et al. **Am J Cardiol** 1990 May 2;65(17):46H–50H

Use of the serum creatinine to estimate glomerular filtration rate in health and early diabetic nephropathy. Collaborative Study Group of Angiotensin Converting Enzyme Inhibition in Diabetic Nephropathy. Lemann J, et al. **Am J Kidney Dis** 1990 Sep;16(3):236–43

Concerns about diabetic nephropathy in the treatment of diabetic hypertensive patients. Tolins JP, et al. **Am J Med** 1989 Dec 8;87(6A):29S–33S (52 ref.)

Does pregnancy alter the rate of progression of diabetic nephropathy? Reece EA, et al. **Am J Perinatol** 1990 Apr; 7(2):193–7

Early markers of the renal complications of insulin dependent diabetes mellitus [see comments] Gibb DM, et al. **Arch Dis Child** 1989 Jul;64(7):984–91 Comment in: Arch Dis Child 1990 Feb;65(2):247.

High–normal blood pressure and early diabetic nephropathy. Chase HP, et al. **Arch Intern Med** 1990 Mar;150(3):639–41

Effect of captopril on blood pressure and kidney function in normotensive insulin dependent diabetics with nephropathy. Parving HH, et al. **BMJ** 1989 Aug 26; 299(6698):533–6

Nonenzymatic glycation and enhanced polyol pathway activity in the pathogenesis of diabetic nephropathy. Cohen MP. **Contrib Nephrol** 1989;73:59–70; discussion 71–2 (66 ref.)

Charge–dependent filtration properties of glomerular basement membrane. Feldt–Rasmussen B, et al. **Contrib Nephrol** 1989;73:45–9; discussion 50–1 (27 ref.)

Diabetic nephropathy: structural–functional relationships. Hasslacher C. **Contrib Nephrol** 1989;73:24–8; discussion 28–9 (11 ref.)

Autonomic neuropathy in diabetic nephropathy. Effect of regular dialysis treatment and simultaneous transplantation of kidney and pancreas. Heidbreder E, et al. **Contrib Nephrol** 1989;73:112–25; discussion 126

Role of hypertension in diabetic nephropathy. Ritz E, et al. **Contrib Nephrol** 1989;73:91–9; discussion 99–101 (27 ref.)

Microalbuminuria and clinical nephropathy in type 1 (insulin–dependent) diabetes mellitus: pathophysiological mechanisms and intervention studies. Feldt–Rasmussen B. **Dan Med Bull** 1989 Oct;36(5):405–15 (190 ref.)

Elevated blood pressure predicts the development of persistent proteinuria in the presence of poor glycemic control, in patients with type I diabetes. Derby L, et al. **Diabet Metab** 1989;15(5 Pt 2):320–6

Hypertension and microalbuminuria as predictors of diabetic nephropathy. Jones SL, et al. **Diabete Metab** 1989;15(5 Pt 2):327–32

The contribution of the sympathetic nervous system to hypertension in diabetes mellitus. Kribben A, et al. **Diabete Metab** 1989;15(5 Pt 2):313–7 (48 ref.)

Time relationship between blood pressure rise and the development of diabetic nephropathy. Mathiesen ER. **Diabete Metab** 1989;15(5 Pt 2):318–9 (13 ref.)

The effect of blood pressure intervention on renal function in insulin–dependent diabetes. Mogensen CE. **Diabete Metab** 1989;15(5 Pt 2):343–51

Morphology of diabetic glomerulopathy and relationship to hypertension. Osterby R, et al. **Diabete Metab** 1989;15(5 Pt 2):278–83 (22 ref.)

Prediction of clinical diabetic nephropathy in IDDM patients. Alternatives to microalbuminuria? Mogensen CE. **Diabetes** 1990 Jul;39(7):761–7 (58 ref.)

Renal effects of prostaglandin E1 in type 2 (non–insulin–dependent) diabetic patients with subclinical nephropathy. Ninomiya Y, et al. **Diabetes Res** 1989 Mar; 10(3):129–34

Juvenile Diabetes Foundation Diabetic Nephropathy Workshop, Minneapolis, 1989. Bilous RW. **Diabetic Med** 1990 Feb;7(2):181–2 (0 ref.)

Growth factors and diabetic complications. Flyvbjerg A. **Diabetic Med** 1990 Jun;7(5):387–99 (165 ref.)

Development of nephropathy in diabetic patients with a single kidney. Sampson MJ, et al. **Diabetic Med** 1990 Mar–Apr;7(3):258–60

Abnormal blood rheology and diabetic nephropathy [letter; comment] Simpson LO. **Diabetologia** 1989 Oct;32(10):766–7 Comment on: Diabetologia 1989 Apr;32(4):219–26.

Renal effects of nicardipine, a calcium antagonist, in hypertensive type 2 (non–insulin–dependent) diabetic patients with and without nephropathy. Baba T, et al. **Eur J Clin Pharmacol** 1990;38(5):425–9

Animal models of spontaneous diabetic kidney disease. Velasquez MT, et al. **FASEB J** 1990 Aug;4(11):2850–9 (67 ref.)

Natural history of hypertension and kidney disease in diabetes. Christiansen JS. **J Hypertens Suppl** 1990 Mar; 8(1):S37–9; discussion S39–40 (23 ref.)

Diabetic nephropathy in normotensive patients. Mimran A, et al. **J Hypertens Suppl** 1990 Mar;8(1):S53–9; discussion S59–60 (55 ref.)

Pathophysiology of proteinuria in diabetic glomerular disease. Myers BD. **J Hypertens Suppl** 1990 Mar;8(1):S41–6

Monitoring kidney function in diabetic nephropathy. Groth S, et al. **J Intern Med** 1989 Nov;226(5):341–3

The natural history and epidemiology of diabetic nephropathy. Implications for prevention and control. Selby JV, et al. **JAMA** 1990 Apr 11;263(14):1954–60 (41 ref.)

Low–protein diet and progression of renal disease in diabetic nephropathy [letter; comment] **Lancet** 1990 Feb 17; 335(8686):411–2 Comment on: Lancet 1989 Dec 16;2(8677):1411–5.

Increase in glomerular filtration rate in patients with insulin–dependent diabetes and elevated erythrocyte sodium–lithium countertransport. Carr S, et al. **N Engl J Med** 1990 Feb 22;322(8):500–5

Changing concepts of the pathogenesis of diabetic nephropathy. Wilion F, et al. **N Y State J Med** 1990 Apr; 90(4):185–9 (30 ref.)

Interrelations of blood pressure, glomerular filtration rate, protein clearances and sodium excretion in patients with glomerulonephritis and diabetic nephropathy. Ala–Houhala I, et al. **Nephrol Dial Transplant** 1990;5(5):337–41

Effects of exercise on glomerular passage of macromolecules in patients with diabetic nephropathy and in healthy subjects. Ala–Houhala I. **Scand J Clin Lab Invest** 1990 Feb; 50(1):27–33

The increased proximal tubular reabsorption of sodium and water is maintained in long–term insulin–dependent diabetics with early nephropathy. Skøtt P, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):419–25

Hyperfiltration and diabetic nephropathy: is it the beginning? Or is it the end? Castellino P, et al. **Semin Nephrol** 1990 May;10(3):228–41 (113 ref.)

Pathogenesis of diabetic glomerulopathy: hemodynamic considerations. Hostetter TH. **Semin Nephrol** 1990 May; 10(3):219–27 (103 ref.)

The natural history of diabetic nephropathy. Tuttle KR, et al. **Semin Nephrol** 1990 May;10(3):184–93 (68 ref.)

Tubular function in diabetes mellitus. Vaamonde CA, et al. **Semin Nephrol** 1990 May;10(3):203–18 (112 ref.)

[Pregnancy and diabetic nephropathy] Berland Y, et al. **Diabete Metab** 1990;16(2 Pt 2):137–43 (41 ref.) (Eng. Abstr.) (Fre)

[Pathogenicity of glomerular hyperfiltration, a question of glomerular tolerance?] Wüstenberg PW, et al. **Z Gesamte Inn Med** 1990 Apr 15;45(8):210–4 (19 ref.) (Eng. Abstr.) (Ger)

[Afterload changes in diabetic dysautonomia evaluated using echocardiography] Salvaggio A, et al. **Cardiologia** 1989 Sep;34(9):787–91 (Eng. Abstr.) (Ita)

[Treatment and physiopathology of diabetic nephropathies] Nakamoto Y, et al. **Nippon Naika Gakkai Zasshi** 1990 Feb 10;79(2):200–4 (Jpn)

[Diseases of the kidney in children and adolescents with insulin–dependent diabetes mellitus] Dučić V, et al. **Acta Med Iugosl** 1989;43(4):265–74 (Eng. Abstr.) (Scr)

PREVENTION & CONTROL

L–dopa and streptozotocin–induced diabetic nephropathy in rats. Barthelmebs M, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):72S–74S

Intervention studies in diabetic nephropathy. Klahr S. **Contrib Nephrol** 1989;73:147–58; discussion 158–9 (29 ref.)

Prior long term glycaemic control and insulin therapy in insulin–dependent diabetic adolescents with microalbuminuria. Kalk WJ, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):83–8

Enalapril retards glomerular basement membrane thickening and albuminuria in the diabetic rat: are these effects specific for enalapril? [letter; comment] Baba T, et al. **Diabetologia** 1989 Nov;32(11):829 Comment on: Diabetologia 1989 May;32(5):326–8.

Glucose control and renal and retinal complications of diabetes mellitus [letter; comment] **JAMA** 1990 Aug 1; 264(5):573–4 Comment on: JAMA 1989 Feb 24;261(8):1155–60.

Short and long term effects of antihypertensive therapy in the diabetic rat. Anderson S, et al. **Kidney Int** 1989 Oct; 36(4):526–36

Prevention and treatment of renal disease in insulin–dependent diabetes mellitus. Mogensen CE. **Semin Nephrol** 1990 May;10(3):260–73 (52 ref.)

The effect of early islet transplantation on prevention of nephropathy in the spontaneously diabetic BB rat. Woehrle M, et al. **Transplant Proc** 1990 Apr;22(2):819–20

Significance of portal venous drainage after whole–organ pancreas transplantation for endocrine graft function and

prevention of diabetic nephropathy. Lück R, et al. **Transplantation** 1990 Sep;50(3):394–8

[Screening methods for microalbuminuria in diabetes mellitus] Pedersen LM, et al. **Ugeskr Laeger** 1990 Mar 26; 152(13):912–3 (Eng. Abstr.) **(Dan)**

RADIOGRAPHY

Pretransplant coronary arteriography for diabetic renal transplant recipients. Lorber MI, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1539–41

RADIONUCLIDE IMAGING

Noninvasive cardiac risk stratification of diabetic and nondiabetic uremic renal allograft candidates using dipyridamole–thallium–201 imaging and radionuclide ventriculography. Brown KA, et al. **Am J Cardiol** 1989 Nov 1;64(16):1017–21

SURGERY

Prognostic value of intravenous dipyridamole thallium imaging in patients with diabetes mellitus considered for renal transplantation. Camp AD, et al. **Am J Cardiol** 1990 Jun 15;65(22):1459–63

Renal transplantation for the nephrologist: is pancreas transplantation for diabetic ESRD now accepted therapy? Hunsicker LG. **Am J Kidney Dis** 1990 Jan;15(1):93–6

Combined kidney and pancreas transplantation. A safe and effective treatment for diabetic nephropathy. Schulak JA, et al. **Arch Surg** 1990 Jul;125(7):881–5

Indication, selection of patients and timing for pancreatic transplantation. Bolinder J, et al. **Baillieres Clin Gastroenterol** 1989 Oct;3(4):825–33 (42 ref.)

Kidney transplantation in diabetic nephropathy. Frei U, et al. **Contrib Nephrol** 1989;73:199–206; discussion 206–8 (28 ref.)

Studies of the entero–insular axis following pancreas transplantation in man: neural or hormonal control? Clark JD, et al. **Diabetic Med** 1989 Dec;6(9):813–7

Acute lumbosacral plexopathy in diabetic women after renal transplantation. Hefty TR, et al. **J Urol** 1990 Jan; 143(1):107–9

Pancreas transplantation or insulin? [letter] Sutherland DE. **Lancet** 1990 Jul 14;336(8707):110

Are late diabetic complications reversible after pancreas transplantation? A new method of follow–up of microcirculatory changes. Abendroth D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2325–6

A different clinical course of IDDM patients after simultaneous pancreas and kidney transplantation and kidney grafting alone. Abendroth D, et al. **Transplant Proc** 1990 Aug;22(4):1579

Percutaneous pancreas transplant fine needle aspiration and needle core biopsies are useful and safe. Allen PD, et al. **Transplant Proc** 1990 Apr;22(2):663–4

Combined pancreatic and renal transplantation: improved survival of uremic diabetic patients and renal grafts. Brekke IB, et al. **Transplant Proc** 1990 Aug;22(4):1580

Glucose control after simultaneous segmental pancreas and kidney transplantation. Brons IG, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2288–9

Simultaneous pancreas and kidney transplantation in a type II (non–insulin–dependent) diabetic uremic patient requiring pregraft insulin therapy. Cantarovich D, et al. **Transplant Proc** 1990 Apr;22(2):662

Low incidence of rejection following combined kidney and pancreas transplantation. Cantarovich D, et al. **Transplant Proc** 1990 Apr;22(2):626–8

Experience with Belzer UW cold storage solution in simultaneous pancreas–kidney transplantation. D'Alessandro AM, et al. **Transplant Proc** 1990 Apr; 22(2):532–4

Results of kidney transplantation in patients with diabetic nephropathy. Ekstrand A, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1535–6

Alteration in diabetic retinopathy and nephropathy following islet transplantation. Farkas G, et al. **Transplant Proc** 1990 Apr;22(2):765–6

Results of renal transplantation in diabetic nephropathy. Fauchald P, et al. **Transplant Proc** 1990 Aug;22(4):1431

Simultaneous pancreas and kidney transplants versus single kidney transplants and previous kidney transplants in uremic patients and single pancreas transplants in nonuremic diabetic patients: comparison of rejection, morbidity, and long–term outcome. Gruessner RW, et al. **Transplant Proc** 1990 Apr;22(2):622–3

An immunological comparison of pancreas transplants alone in nonuremic patients versus simultaneous pancreas/kidney transplants in uremic diabetic patients. Gruessner RW, et al. **Transplant Proc** 1990 Aug;22(4):1581

Does pancreatic juice have a detrimental effect on the bladder mucosa? Königsrainer A, et al. **Transplant Proc** 1990 Aug;22(4):1600–1

Prophylactic polyclonal versus monoclonal antibodies in kidney and pancreas transplantation. Lefrançois N, et al. **Transplant Proc** 1990 Apr;22(2):632–3

Renal transplantation in diabetes mellitus: influence of combined pancreas–kidney transplantation on outcome. Nakache R, et al. **Transplant Proc** 1990 Apr;22(2):624–5

Frequency of diabetes–related complications in renal allograft recipients prospectively randomized to cyclosporine or azathioprine. Pescovitz MD, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1537–8

High incidence of late rejections in preuremic recipients of pancreas transplants given alone or in combination with renal transplants. Tydén G, et al. **Transplant Proc** 1990 Aug;22(4):1582–3

A controlled trial comparing pretransplant total lymphoid irradiation versus posttransplant cyclosporine in type I diabetic cadaveric kidney graft recipients: short–term results. Vanrenterghem Y, et al. **Transplant Proc** 1987 Feb; 19(1 Pt 2):1542–3

[Duplex sonography in postoperative monitoring of pancreatic transplants—initial experiences] Pöllmann H, et al. **Ultraschall Med** 1989 Dec;10(6):303–6 (Eng. Abstr.) **(Ger)**

THERAPY

Treatment of and mortality from diabetic renal failure in patients identified in the 1985 United Kingdom survey. Joint Working Party on Diabetic Renal Failure of the British Diabetic Association, Renal Association, and the Research Unit of the Royal College of Physicians. **BMJ** 1989 Nov 4;299(6708):1135–6

Results of peritoneal dialysis in diabetics. Grabensee B, et al. **Contrib Nephrol** 1989;73:183–97; discussion 197–8

Long–term outcome in diabetic patients on hemodialysis treatment. Hörl WH, et al. **Contrib Nephrol** 1989;73:163–9

Treatment of end–stage renal insufficiency in diabetic nephropathy by hemofiltration. Quellhorst E. **Contrib Nephrol** 1989;73:170–81; discussion 181–2

Can management strategies alter the course of diabetic nephropathy? Drash AL, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S109–16

Care of the diabetic patient with end–stage renal disease. Markell MS, et al. **Semin Nephrol** 1990 May;10(3):274–86 (65 ref.)

Comparison of therapeutic efficacy of continuous ambulatory peritoneal dialysis between diabetic and non–diabetic patients: three years of experience. Tsai TJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Oct;88(10):1000–7

[Continuous ambulatory peritoneal dialysis treatment and blood glucose control in diabetics with end–stage diabetic nephropathy] Li GW, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jun;28(6):360–3, 382 (Eng. Abstr.) **(Chi)**

[Hemodialysis: a danger the in chronic renal failure diabetic patient (letter)] Pochmalicki G, et al. **Presse Med** 1990 Feb 17;19(6):264 **(Fre)**

[Diabetic nephropathy—recent therapeutic concepts] Schmidt P. **Wien Klin Wochenschr** 1990 Mar 2;102(5):121–5 (36 ref.) (Eng. Abstr.) **(Ger)**

[Diabetic microangiopathy] Mizuno Y. **Kokyu To Junkan** 1989 Jul;37(7):733–9 **(Jpn)**

URINE

Identifying patients with incipient diabetic nephropathy. Should 24–hour urine collections be used? Stehouwer CD, et al. **Arch Intern Med** 1990 Feb;150(2):373–5

Urinary excretion of brush–border antigen and plasma proteins in early stages of diabetic nephropathy. Mutti A, et al. **Clin Chim Acta** 1990 Apr 30;188(2):93–100

Urinary excretion of human epidermal growth factor in the various stages of diabetic nephropathy. Dagogo–Jack S, et al. **Clin Endocrinol (Oxf)** 1989 Aug;31(2):167–73

Urinary protein patterns in diabetic nephropathy. Weber MH, et al. **Contrib Nephrol** 1989;73:30–42; discussion 42–4 (26 ref.)

Effects of nifedipine on renal responses to human atrial natriuretic peptide in healthy subjects and normoglycemic patients with type 1 diabetes mellitus. Jungmann E, et al. **Klin Wochenschr** 1989 Dec 4;67(23):1174–81

Mechanisms of proteinuria in diabetic renal disease. Meyer TW. **Semin Nephrol** 1990 May;10(3):194–202 (65 ref.)

[Diabetic nephropathy in children: study using the amount of urinary albumin] Abdenur JE, et al. **Medicina (B Aires)** 1989;49(1):1–6 (Eng. Abstr.) **(Spa)**

DIABETIC NEUROPATHIES

Diabetic neuropathies. Weber GA, et al. **Clin Podiatr Med Surg** 1990 Jan;7(1):1–36 (91 ref.)

Diabetic neuropathy: assessment and treatment. O'Hare J. **Ir Med J** 1989 Sep;82(3):98–9

The clinical features of non–diabetic autonomic failure. Ewing DJ. **Scott Med J** 1990 Apr;35(2):35–8

[Incidence and developmental interdependence of peripheral nerve disorders in type 2 diabetics] Kalita Z, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1357–60 (Eng. Abstr.) **(Cze)**

[Incidence and developmental interdependence of peripheral nerve disorders in type 1 diabetics] Kalita Z, et al. **Cas Lek Cesk** 1989 Oct 27;128(43–44):1353–6 (Eng. Abstr.) **(Cze)**

[Diabetic autonomic neuropathy] Bouček P. **Vnitr Lek** 1989 Jun;35(6):587–94 (Eng. Abstr.) **(Cze)**

[Diabetes insipidus in a case of Behçet's disease with neurologic manifestations (letter)] Hamza M, et al. **Presse Med** 1989 Oct 28;18(35):1755 **(Fre)**

[Neurologic complications in juvenile diabetes] Karovičová M, et al. **Cesk Pediatr** 1989 Jul;44(7):397–8 **(Slo)**

[Physiopathology, clinical aspects and treatment of the diabetic foot] Beltrán Ramón J, et al. **Angiologia** 1989 Nov–Dec;41(6):217–24 (17 ref.) (Eng. Abstr.) **(Spa)**

[Askin tumor with infiltration of the optic nerves and diabetes insipidus (letter)] Martín García G, et al. **Med Clin (Barc)** 1990 Feb 24;94(7):279 **(Spa)**

BLOOD

Low serum levels of nerve growth factor in diabetic neuropathy. Faradji V, et al. **Acta Neurol Scand** 1990 May; 81(5):402–6

Alterations of lipoprotein(a) in patients with diabetic nephropathy [letter] Takegoshi T, et al. **Atherosclerosis** 1990 Jul;83(1):99–100

Hormonal response to blood volume expansion in diabetic subjects with and without autonomic neuropathy. O'Hare JP, et al. **Clin Endocrinol (Oxf)** 1989 May;30(5):571–9

Elevation of plasma thrombomodulin level in diabetic patients with early diabetic nephropathy. Iwashima Y, et al. **Diabetes** 1990 Aug;39(8):983–8

Plasma adrenaline kinetics in type 1 (insulin–dependent) diabetic patients with and without autonomic neuropathy. Dejgaard A, et al. **Diabetologia** 1989 Nov;32(11):810–3

[The level of glycosylated hemoglobin A1c in the erythrocytes of patients with diabetic angio– and polyneuropathies] Karabun PM. **Probl Endokrinol (Mosk)** 1989 Sep–Oct;35(5):33–7 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Gastrointestinal symptoms in diabetic patients: association or lack of association with neuropathy? [letter; comment] Palmer JD, et al. **Am J Gastroenterol** 1990 Mar;85(3):324–5 Comment on: Am J Gastroenterol 1989 Aug;84(8):868–72.

Diabetes and hypotension [letter] Shorten G, et al. **Anaesthesia** 1990 Feb;45(2):169

Rapidly progressive Charcot arthropathy following minor joint trauma in patients with diabetic neuropathy. Slowman–Kovacs SD, et al. **Arthritis Rheum** 1990 Mar; 33(3):412–7

Bethanechol–induced cholinergic toxicity in diabetic neuropathy [letter] Caraco Y, et al. **DICP** 1990 Mar; 24(3):327–8

Review of metatarsal osteotomies for the treatment of neuropathic ulcerations. Tillo TH, et al. **J Am Podiatr Med Assoc** 1990 Apr;80(4):211–7

The complexities of diabetic neuropathy. Sack J. **Kans Med** 1989 Nov;90(11):313–6

The effect of intravenous lidocaine on nociceptive processing in diabetic neuropathy. Bach FW, et al. **Pain** 1990 Jan; 40(1):29–34

Relationship of foot deformity to ulcer location in patients with diabetes mellitus. Mueller MJ, et al. **Phys Ther** 1990 Jun;70(6):356–62

Etiologic aspects of impotence in diabetes. Forsberg L, et al. **Scand J Urol Nephrol** 1989;23(3):173–5

[Neuroarthropathy of the diabetic foot] Burgers AM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):513–6 **(Dut)**

[Correlation of autonomic neuropathy and retinal microangiopathy in diabetic children] Barkai L Jr, et al. **Orv Hetil** 1989 Sep 17;130(38):2037–40 (Eng. Abstr.) **(Hun)**

[Cold pressor test in the evaluation of autonomic neuropathy] Palatini P, et al. **Cardiologia** 1989 Nov;34(11):939–43 (Eng. Abstr.) **(Ita)**

[Usefulness of plantar pressure measurement for the prevention and treatment of neuropathic diabetic foot] Scionti L, et al. **Recenti Prog Med** 1990 Feb;81(2):119–23 (Eng. Abstr.) **(Ita)**

[The heart and diabetes mellitus] Lerman Garber I, et al. **Arch Inst Cardiol Mex** 1990 Jan–Feb;60(1):79–88 (84 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

A new measuring design for autonomic dysfunction of skin in neuropathies: hyperthermal laser–Doppler flowmetry. Költringer P, et al. **Acta Neurol Scand** 1989 Dec; 80(6):589–92

F response characteristics in type I diabetes mellitus. Mysiw WJ, et al. **Am J Phys Med Rehabil** 1990 Jun;69(3):112–6

Diabetic neuropathy. Greene DA, et al. **Annu Rev Med** 1990; 41:303–17 (58 ref.)

Exaggerated orthostatic hypotension as first sign of diabetic autonomic neuropathy in the elderly. Paolisso G, et al. **Arch Gerontol Geriatr** 1989 Sep–Oct;9(2):107–13

RR interval variation and the sympathetic skin response in the assessment of autonomic function in peripheral neuropathy. Shahani BT, et al. **Arch Neurol** 1990 Jun; 47(6):659–64

Hearing disorders in patients with insulin–dependent diabetes mellitus. Parving A, et al. **Audiology** 1990;29(3):113–21

Meaningful degrees of prevention or improvement of nerve conduction in controlled clinical trials of diabetic neuropathy. Dyck PJ, et al. **Diabetes Care** 1989 Oct; 12(9):649–52

Corrected Q–T interval prolongation as diagnostic tool for assessment of cardiac autonomic neuropathy in diabetes mellitus. Gonin JM, et al. **Diabetes Care** 1990 Jan; 13(1):68–71

Measuring diabetic neuropathy. "Low tech" vs. "high tech" [letter] Liniger C, et al. **Diabetes Care** 1990 Feb;13(2):180–1

Mapping diabetic sensory neuropathy by current perception threshold testing. Rendell MS, et al. **Diabetes Care** 1989

Oct;12(9):636–40

Inability to detect parasympathetic autonomic neuropathy in experimental canine diabetes mellitus in an electrocardiographic study. Atkins CE, et al. **Diabetes Res** 1989 May;11(1):39–43

The pupillary light reflex in diabetes mellitus: evaluation of a newly developed infrared light reflection method. de Vos A, et al. **Diabetes Res** 1989 Apr;10(4):191–5

Variability of three standard neurophysiological techniques in established symptomatic diabetic polyneuropathy. Krentz AJ, et al. **Diabetes Res** 1989 Nov;12(3):135–9

Decreased salivary glucose secretory rate: usefulness for detection of diabetic patients with autonomic neuropathy. Marchetti P, et al. **Diabetes Res Clin Pract** 1989 Sep 18; 7(3):181–6

Erythrocytes from diabetics with neuropathy have fewer sodium pumps. Noda K, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):177–81

Calibration problems with the Biothesiometer. Masson EA, et al. **Diabetic Med** 1990 Mar–Apr;7(3):261–2

Which battery of cardiovascular autonomic function tests? Ryder RE, et al. **Diabetologia** 1990 Mar;33(3):177–9; discussion 180–1

Early diagnosis of subclinical complications in insulin dependent diabetic children and adolescents. Chiumello G, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):101–4

Autonomic neuropathy in non-insulin dependent (type II) diabetes mellitus. Possible influence of obesity. Bergström B, et al. **J Intern Med** 1990 Jan;227(1):57–63

Peripheral neuropathy profile in various groups of diabetics. Le Quesne PM, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):558–63

Spectral analysis of heart rate variability signal and respiration in diabetic subjects. Bianchi A, et al. **Med Biol Eng Comput** 1990 May;28(3):205–11

Diabetic truncal neuropathy presenting as abdominal hernia. Parry GJ, et al. **Neurology** 1989 Nov;39(11):1488–90

Vibratory perception threshold in diabetic neuropathy. Tchen PH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Jan; 89(1):23–9

[The relation between peripheral and autonomic neuropathies in insulin-dependent diabetics] Bouček P, et al. **Cas Lek Cesk** 1990 Apr 20;129(16):494–7 (Eng. Abstr.) **(Cze)**

[Proximal motor neuropathy in diabetes mellitus] van Buren M, et al. **Ned Tijdschr Geneeskd** 1989 Dec 9;133(49):2425–7 **(Dut)**

[An aid to the electrophysiological diagnosis of diabetic peripheral neuropathy] Doucet J, et al. **Neurophysiol Clin** 1989 Aug;19(4):327–37 (Eng. Abstr.) **(Fre)**

[Assessment of diabetic autonomic neuropathy by heart rate monitoring] Weitzman S, et al. **Harefuah** 1990 Feb 15; 118(4):197–8 (Eng. Abstr.) **(Heb)**

[Involvement of central nervous system in patients with diabetes mellitus detected by evoked potentials] Kondo J, et al. **Rinsho Byori** 1990 Apr;38(4):457–62 (Eng. Abstr.) **(Jpn)**

[Autonomic polyneuropathies in diabetes mellitus (the problems of the clinical picture and treatment)] Danilov AB. **Zh Nevropatol Psikhiatr** 1990;90(5):18–23 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

High-dose dietary myo-inositol supplementation does not alter the ischaemia phenomenon in human diabetics. Arendrup K, et al. **Acta Neurol Scand** 1989 Aug; 80(2):99–102

Ephedrine improves microcirculation in the diabetic neuropathic foot. Wollersheim H, et al. **Angiology** 1989 Dec;40(12):1030–4

Concentration-response relationship in imipramine treatment of diabetic neuropathy symptoms. Sindrup SH, et al. **Clin Pharmacol Ther** 1990 Apr;47(4):509–15

Effect of gangliosides on diabetic peripheral neuropathy. Liniger C, et al. **Diabetes Res Clin Pract** 1989 Nov 6; 7(4):251–8

The effect of gamma-linolenic acid on human diabetic peripheral neuropathy: a double-blind placebo-controlled trial. Jamal GA, et al. **Diabetic Med** 1990 May;7(4):319–23

Prolonged aldose reductase inhibition in chronic peripheral diabetic neuropathy: effects on microangiopathy. Jennings PE, et al. **Diabetic Med** 1990 Jan;7(1):63–8

A multicentre trial of the aldose-reductase inhibitor, tolrestat, in patients with symptomatic diabetic neuropathy. Boulton AJ, et al. **Diabetologia** 1990 Jul;33(7):431–7

Aldose reductase inhibitors in the treatment of diabetic neuropathy. A review of the rationale and clinical evidence. Masson EA, et al. **Drugs** 1990 Feb;39(2):190–202 (72 ref.)

Imipramine treatment in diabetic neuropathy: relief of subjective symptoms without changes in peripheral and autonomic nerve function. Sindrup SH, et al. **Eur J Clin Pharmacol** 1989;37(2):151–3

Beneficial effect of an ACTH-(4–9) analog on peripheral neuropathy and blood pressure response to tyramine in streptozocin diabetic rats. Van der Zee CE, et al. **Eur J Pharmacol** 1990 Feb 27;177(3):211–3

Intravenous lidocaine and cerebral blood flow: impaired microvascular reactivity in diabetic patients. Kastrup J, et al. **J Clin Pharmacol** 1990 Apr;30(4):318–23

Compliance problems, placebo effect cloud trials of topical analgesic [news] Cotton P. **JAMA** 1990 Jul 4;264(1):13–4

Calcitonin nasal spray for painful diabetic neuropathy [letter] Zieleniewski W. **Lancet** 1990 Aug 18;336(8712):449

Improvement of gastric emptying in diabetic gastroparesis by erythromycin. Preliminary studies [see comments] Janssens J, et al. **N Engl J Med** 1990 Apr 12; 322(15):1028–31 Comment in: N Engl J Med 1990 Apr 12;322(15):1078–9.

Piroxicam may reduce the rate of progression of experimental diabetic neuropathy. Parry GJ, et al. **Neurology** 1990 Sep; 40(9):1446–9

Management of idiopathic, diabetic and miscellaneous gastroparesis with cisapride. Champion MC. **Scand J Gastroenterol Suppl** 1989;165:44–52; discussion 52–3 (16 ref.)

Examination of Cavinton effect in elderly diabetic patients. Boda J, et al. **Ther Hung** 1989;37(3):176–80

[Drug therapy of symptoms in peripheral diabetic neuropathy. Tricyclic antidepressive agents and other drugs] Sindrup SH. **Ugeskr Laeger** 1990 Feb 19; 152(8):554–6 **(Dan)**

[Clinical application of prostaglandin on peripheral neuropathy] Nakamura Y, et al. **Nippon Rinsho** 1990 Jun; 48(6):1224–8 **(Jpn)**

[Diabetic neuropathy: clinical and electrophysiologic results of the use of a plant extract rich in myoinositol] Mincu I, et al. **Rev Med Interna [Med Interna]** 1989 May–Jun; 41(3):265–9 **(Rum)**

ENZYMOLOGY

Effect of aldose reductase inhibitor (Ponalrestat) on erythrocyte Na,K-ATPase activity in non-insulin-dependent diabetic patients with polyneuropathy. Umeda F, et al. **Diabetes Res** 1989 Nov; 12(3):125–9

EPIDEMIOLOGY

Sensory neuropathy in non-insulin-dependent diabetes mellitus. The San Luis Valley Diabetes Study. Franklin GM, et al. **Am J Epidemiol** 1990 Apr;131(4):633–43

Prevalence of neuropathy in newly diagnosed NIDDM and nondiabetic control subjects. Lehtinen JM, et al. **Diabetes** 1989 Oct;38(10):1307–13

Epidemiological correlates of diabetic neuropathy. Report from Pittsburgh Epidemiology of Diabetes Complications Study. Maser RE, et al. **Diabetes** 1989 Nov;38(11):1456–61

Factors associated with avoidance of severe complications after 25 yr of IDDM. Pittsburgh Epidemiology of Diabetes Complications Study I. Orchard TJ, et al. **Diabetes Care** 1990 Jul;13(7):741–7

Using insulin U 100 conversion to estimate the prevalence and problems of insulin-treated diabetic patients in the Republic of Seychelles. Sullivan FM, et al. **Diabetologia** 1990 Mar;33(3):184–5

[Diabetic neuropathies; new trends in physiopathology and treatment] Kudo M, et al. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):397–401 **(Jpn)**

ETIOLOGY

Coexistence of nerve conduction deficit with increased Na(+)-K(+)-ATPase activity in galactose-fed mice. Implications for polyol pathway and diabetic neuropathy. Calcutt NA, et al. **Diabetes** 1990 Jun;39(6):663–6

Effects of long-term aldose reductase inhibition on development of experimental diabetic neuropathy. Ultrastructural and morphometric studies of sural nerve in streptozocin-induced diabetic rats. Yagihashi S, et al. **Diabetes** 1990 Jun;39(6):690–6

Cigarette smoking and neuropathy in diabetic patients. Mitchell BD, et al. **Diabetes Care** 1990 Apr;13(4):434–7

Amyotrophy in young diabetics: clinical profiles. Varthakavi PK, et al. **J Assoc Physicians India** 1990 Mar;38(3):206–10

Autonomic neuropathy in type II diabetes mellitus: the influence of obesity [letter] Neil HA, et al. **J Intern Med** 1990 Sep;228(3):293

Acute symptomatic diabetic neuropathy associated with normalization of haemoglobin A1. Krentz AJ. **J R Soc Med** 1989 Dec;82(12):767–8

Hyperosmolar nonketotic hyperglycemia manifested as ascending polyneuropathy. Davenport A, et al. **South Med J** 1990 Feb;83(2):250–2

[Light diabetes mellitus, severe sequelae] van Ballegooie E, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):265–7 **(Dut)**

[The prevalence of late complications of type II diabetes mellitus (published erratum appears in Ned Tijdschr Geneeskd 1990 Mar 10;134(10):512)] Verhoeven S, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):283–7 (Eng. Abstr.) **(Dut)**

[Autonomic neuropathy in diabetes mellitus: significance in the clinic and general practice] Nusser J, et al. **Internist (Berl)** 1990 Mar;31(3):198–207 (113 ref.) **(Ger)**

[The diabetic foot] Morell B. **Ther Umsch** 1990 Jan; 47(1):55–62 (15 ref.) (Eng. Abstr.) **(Ger)**

[Causes and treatment of diabetic complications] Sakamoto N. **Nippon Naika Gakkai Zasshi** 1989 Nov;78(11):1540–3 **(Jpn)**

[Recent advances in the pathogenesis of diabetic neuropathy] Umehara F. **Nippon Rinsho** 1989 Nov;47(11):2516–20 **(Jpn)**

[Phosphoinositides and their role in the development of chronic complications of diabetes mellitus] Czyżyk A. **Pol Arch Med Wewn** 1989 Mar;81(3):129–36 **(Pol)**

[Patterns in the development of polyneuropathies in diabetics (a review of the literature)] Genyk SN, et al. **Vrach Delo** 1990 May;(5):54–7 (42 ref.) **(Rus)**

METABOLISM

Transient nephrotic syndrome during pregnancy in diabetic women [letter; comment] Bain SC, et al. **BMJ** 1989 Sep 30;299(6703):853 Comment on: BMJ 1989 Aug 5;299(6695):366–7.

Pathogenesis of diabetic neuropathy: role of altered phosphoinositide metabolism. Greene DA, et al. **Crit Rev Neurobiol** 1989;5(2):143–219 (373 ref.)

Decreased VIP content in peripheral nerve from streptozocin-induced diabetic rats. Noda K, et al. **Diabetes** 1990 May;39(5):608–12

Increased lipolytic sensitivity to catecholamines in diabetic patients with severe autonomic neuropathy. Wahrenberg H, et al. **J Intern Med** 1990 May;227(5):309–16

Nerve fibre studies in skin biopsies in peripheral neuropathies. I. Immunohistochemical analysis of neuropeptides in diabetes mellitus. Lindberger M, et al. **J Neurol Sci** 1989 Nov;93(2–3):289–96

Denervation and hyperinnervation in the nervous system of diabetic animals: III. Functional alterations of G proteins in diabetic encephalopathy. Abbracchio MP, et al. **J Neurosci Res** 1989 Dec;24(4):517–23

Denervation and hyperinnervation in the nervous system of diabetic animals. II. Monoaminergic and peptidergic alterations in the diabetic encephalopathy. Di Giulio AM, et al. **J Neurosci Res** 1989 Nov;24(3):362–8

Denervation and hyperinnervation in the nervous system of diabetic animals. I. The autonomic neuronal dystrophy of the gut. Di Giulio AM, et al. **J Neurosci Res** 1989 Nov; 24(3):355–61

Polyols and myo-inositol in diabetic neuropathy—of mice and men [editorial] Tomlinson DR. **Mayo Clin Proc** 1989 Aug;64(8):1030–3

PATHOLOGY

Peripheral motor neuropathy in spontaneously diabetic WBN/Kob rats: a morphometric and electron microscopic study. Narama I, et al. **Acta Neuropathol (Berl)** 1989; 79(1):52–60

Adrenergic innervation in the tibial and vagus nerves of rats with streptozotocin-induced diabetes. Koistinaho J, et al. **Brain Res** 1990 Apr 9;513(1):106–12

Association of painful and painless diabetic polyneuropathy with different patterns of nerve fiber degeneration and regeneration. Britland ST, et al. **Diabetes** 1990 Aug; 39(8):898–908

Relationship of endoneurial capillary abnormalities to type and severity of diabetic polyneuropathy. Britland ST, et al. **Diabetes** 1990 Aug;39(8):909–13

Cystometric changes in alloxan diabetic rats: evidence for functional and structural correlates of diabetic autonomic neuropathy. Paro M, et al. **J Auton Nerv Syst** 1990 Apr; 30(1):1–11

Neuroaxonal dystrophy in distal symmetric sensory polyneuropathy of the diabetic BB-rat. Yagihashi S, et al. **J Diabetic Complications** 1989 Oct–Dec;3(4):202–10

[Diabetic ophthalmoplegia—a clinico-pathological study of the first case in Japan] Usui Y, et al. **Rinsho Shinkeigaku** 1989 Apr;29(4):442–9 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Review of the morphological changes in peripheral nerves in experimental diabetes mellitus] Ochodnická E, et al. **Bratisl Lek Listy** 1989 Jul;90(7):540–4 (Eng. Abstr.) **(Slo)**

[Cellular mechanisms in diabetic neuropathy] Brismar T. **Lakartidningen** 1989 Aug 30;86(35):2852–5 (Eng. Abstr.) **(Swe)**

PHYSIOPATHOLOGY

Relationship between retinal ischemia and cardiovascular autonomic damage in diabetes. Giardullo A, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):245–55

Study of visual evoked potentials in diabetics without retinopathy: correlations with clinical findings and polyneuropathy. Mariani E, et al. **Acta Neurol Scand** 1990 Apr;81(4):337–40

Conduction velocity study in type I diabetic patients. Meli F, et al. **Acta Neurol Scand** 1989 Nov;80(5):432–7

Autonomic influence on cardiovascular performance in diabetic subjects. Roy TM, et al. **Am J Med** 1989 Oct; 87(4):382–8

Diabetic autonomic neuropathy and cardiovascular risk. Pittsburgh Epidemiology of Diabetes Complications Study III. Maser RE, et al. **Arch Intern Med** 1990 Jun; 150(6):1218–22

Diabetic neuropathy and braille ability. Bernbaum M, et al. **Arch Neurol** 1989 Nov;46(11):1179–81

Sympathetic sudomotor function in diabetic neuropathy. Kennedy WR, et al. **Arch Neurol** 1989 Nov;46(11):1182–6

Diabetic amyotrophy—a more diffuse process than clinically suspected. Donovan WH, et al. **Arch Phys Med Rehabil** 1976 Aug;57(8):397–403

Diabetic neuropathy. Ward JD. **Br Med Bull** 1989 Jan; 45(1):111–26 (87 ref.)

Properties of cutaneous afferents in diabetic neuropathy.

Mackel R. **Brain** 1989 Oct;112 (Pt 5):1359–76
Renal transplantation and diabetic autonomic neuropathy. Thomas AN, et al. **Can J Anaesth** 1989 Sep;36(5):590–2
Inspiratory reflexes in diabetes mellitus. Novitch RS, et al. **Chest** 1990 Mar;97(3 Suppl):43S–44S
Non-invasive tests of neurovascular function. Westerman RA, et al. **Clin Exp Neurol** 1987;24:129–37
Concordance between different measures of small sensory and autonomic fibre neuropathy in diabetes mellitus. Westerman RA, et al. **Clin Exp Neurol** 1989;26:51–63
A non-invasive approach to cardiac autonomic neuropathy in patients with diabetes mellitus. Weise F, et al. **Clin Physiol** 1990 Mar;10(2):137–45
Vasopressin secretion in diabetic subjects with and without autonomic neuropathy: responses to osmotic and postural stimulation. Reid W, et al. **Clin Sci** 1989 Dec;77(6):589–97
Autonomic neuropathy in diabetic nephropathy. Effect of regular dialysis treatment and simultaneous transplantation of kidney and pancreas. Heidbreder E, et al. **Contrib Nephrol** 1989;73:112–25; discussion 126
Selection of patients with symptomatic diabetic neuropathy for clinical trials. Krentz AJ, et al. **Diabete Metab** 1989 Nov–Dec;15(6):416–9
Response of pancreatic polypeptide to a protein rich meal in diabetic autonomic neuropathy. Weil R, et al. **Diabete Metab** 1989 Jul–Aug;15(4):163–9
Effect of medial arterial calcification on O2 supply to exercising diabetic feet. Chantelau E, et al. **Diabetes** 1990 Aug;39(8):938–41
Peripheral neuropathy in diabetic monkeys. Cornblath DR, et al. **Diabetes** 1989 Nov;38(11):1365–70
Diabetic autonomic neuropathy in BB rats and effect of ARI treatment on heart-rate variability and vagus nerve structure. Zhang WX, et al. **Diabetes** 1990 May;39(5):613–8
Pathways to diabetic limb amputation. Basis for prevention. Pecoraro RE, et al. **Diabetes Care** 1990 May;13(5):513–21
Impaired sweating in the diabetic neuropathic foot and its influence on skin flora. Newrick PG, et al. **Diabetes Res** 1989 Dec;12(4):173–6
Oesophageal transit time and cardiovascular autonomic neuropathy in type 1 (insulin-dependent) diabetes mellitus. Vannini P, et al. **Diabetes Res** 1989 May;11(1):21–5
Cardiovascular and pupillary light reflexes in subjects with abnormal glucose tolerance. Kuroda N, et al. **Diabetes Res Clin Pract** 1989 Sep 18;7(3):213–8
Relationship between age and autonomic neuropathy in diabetes mellitus. Kuroda N, et al. **Diabetes Res Clin Pract** 1990 Apr;9(1):49–53
Isolated symptomatic peripheral neuropathy in type 1 insulin-dependent diabetes mellitus. Ramirez L, et al. **Diabetes Res Clin Pract** 1989 Sep 18;7(3):227–33
QT prolongation on the electrocardiogram in diabetic autonomic neuropathy. Chambers JB, et al. **Diabetic Med** 1990 Feb;7(2):105–10
QT interval length and diabetic autonomic neuropathy. Ewing DJ, et al. **Diabetic Med** 1990 Jan;7(1):23–6
The problem of autonomic neuropathy in diabetic pregnancy. Macleod AF, et al. **Diabetic Med** 1990 Jan;7(1):80–2
Heart rate variability during hypoglycaemia. Malpas SC, et al. **Diabetic Med** 1989 Dec;6(9):822–3
Autonomic neuropathy and the pathogenesis of glaucoma in diabetes mellitus. Moore MV, et al. **Diabetic Med** 1989 Nov;6(8):717–9
Diabetic neuropathy in db/db mice develops independently of changes in ATPase and aldose reductase. A biochemical and immunohistochemical study. Bianchi R, et al. **Diabetologia** 1990 Mar;33(3):131–6
A comparison of peripheral vasoconstrictor responses and cardiovascular autonomic function tests in diabetic patients. Gilmore JE, et al. **Diabetologia** 1990 Jun;33(6):350–6
Hypoxic neuropathy: relevance to human diabetic neuropathy. Malik RA, et al. **Diabetologia** 1990 May; 33(5):311–8
Current perception thresholds: a new, quick, and reproducible method for the assessment of peripheral neuropathy in diabetes mellitus. Masson EA, et al. **Diabetologia** 1989 Oct;32(10):724–8
Essential fatty acid treatment—effects on nerve conduction, polyol pathway and axonal transport in streptozotocin diabetic rats. Tomlinson DR, et al. **Diabetologia** 1989 Sep; 32(9):655–9
Neurohumoral control of gallbladder motility in healthy subjects and diabetic patients with or without autonomic neuropathy. Fiorucci S, et al. **Dig Dis Sci** 1990 Sep; 35(9):1089–97
F-wave latencies of the deep peroneal nerve in diabetic polyneuropathy. Driessens M, et al. **Electromyogr Clin Neurophysiol** 1989 Sep–Oct;29(6):339–44
Type of diabetic sensory neuropathy and autonomic involvement. Idiaquez J. **Funct Neurol** 1989 Oct–Dec; 4(4):399–402
Diabetic oculomotor mononeuropathy: involvement of pupillomotor fibres with slow resolution. Naghmi R, et al. **Horm Metab Res** 1990 Jan;22(1):38–40
Nerve blood flow and oxygen delivery in normal, diabetic, and ischemic neuropathy. Low PA, et al. **Int Rev Neurobiol** 1989;31:355–438 (181 ref.)
Exertional myocardial ischemia in diabetes: a quantitative analysis of anginal perceptual threshold and the influence of autonomic function. Ambepityia G, et al. **J Am Coll Cardiol** 1990 Jan;15(1):72–7
A neuropathic deficit, decreased sweating, is prevented and ameliorated by euglycemia in streptozocin diabetes in rats. Cardone C, et al. **J Clin Invest** 1990 Jul;86(1):248–53
The influence of external precipitating factors and peripheral neuropathy on the development and outcome of diabetic foot ulcers. Apelqvist J, et al. **J Diabetic Complications** 1990 Jan–Mar;4(1):21–5
On the evaluation, prevention, and treatment of diabetic foot lesions. Levin ME. **J Diabetic Complications** 1989 Oct–Dec; 3(4):211–9 (39 ref.)
The diabetic foot: protection and preservation. Chadband RB, et al. **J Med Assoc Ga** 1989 Nov;78(11):777–9 (0 ref.)
Resistance to ischaemic conduction failure in chronic hypoxaemia and diabetes. Hampton KK, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1303–5
A comparison of two methods for measuring thermal thresholds in diabetic neuropathy. Levy D, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep;52(9):1072–7
Autonomic and somatic peripheral nerve function and the correlation with neuropathic pain in diabetic patients. Lanting P, et al. **J Neurol Sci** 1989 Dec;94(1–3):307–17
Studies of resistance to ischemic nerve conduction failure in normal and diabetic rats. Parry GJ, et al. **J Neurol Sci** 1989 Oct;93(1):61–7
Endogenous levels of nerve growth factor (NGF) are altered in experimental diabetes mellitus: a possible role for NGF in the pathogenesis of diabetic neuropathy. Hellweg R, et al. **J Neurosci Res** 1990 Jun;26(2):258–67
Dysfunctional penile cholinergic nerves in diabetic impotent men. Blanco R, et al. **J Urol** 1990 Aug;144(2 Pt 1):278–80
Decrease of macrovascular hyperemic response of blood flow in diabetics with arterial neuropathy. Vogelberg KH, et al. **Klin Wochenschr** 1990 Jun 19;68(12):588–93
Heart rate variability in diabetic patients during orthostatic load—a spectral analytic approach. Weise F, et al. **Klin Wochenschr** 1990 Jan 4;68(1):26–32
Diabetic nephropathy—are there differences between type I and type II? Ritz E, et al. **Miner Electrolyte Metab** 1990; 16(1):69–72 (16 ref.)
Effects of pancreatic transplantation on diabetic neuropathy [see comments] Kennedy WR, et al. N **Engl J Med** 1990 Apr 12;322(15):1031–7 Comment in: N Engl J Med 1990 Apr 12;322(15):1078–9.
Diabetic autonomic neuropathy [editorial; comment] Watkins PJ. N **Engl J Med** 1990 Apr 12;322(15):1078–9 Comment on: N Engl J Med 1990 Apr 12;322(15):1031–7.
Diabetic 3rd nerve palsy: evidence for a mesencephalic lesion. Hopf HC, et al. **Neurology** 1990 Jul;40(7):1041–5
The venoarteriolar reflex in diabetic and other neuropathies. Moy S, et al. **Neurology** 1989 Nov;39(11):1490–2
The effect of aldose reductase inhibition on the pattern of nerve conduction deficits in diabetic rats. Cameron NE, et al. **Q J Exp Physiol** 1989 Nov;74(6):917–26
Effects of acute protein loads of different sources on renal function of patients with diabetic nephropathy. Nakamura H, et al. **Tohoku J Exp Med** 1989 Oct;159(2):153–62
Neuropathy and psychosocial adjustment after pancreas transplant in diabetics. Bentley FR, et al. **Transplant Proc** 1990 Apr;22(2):691–5
[Present views on the pathogenesis of diabetic neuropathies and their practical significance] Kalita Z. **Cesk Neurol Neurochir** 1990 Jan;53(1):12–6 (Cze)
[Vegetative neuropathy and pressure regulation in diabetics] Chanudet X, et al. **Arch Mal Coeur** 1989 Jul;82(7):1147–51 (Eng. Abstr.) (Fre)
[Autonomic cardiac neuropathy in diabetics: methods of research and practical interest] Valensi P. **Diabete Metab** 1990 Mar–Apr;16(2):102–6 (30 ref.) (Fre)
[Polyneuropathy in alcoholism and diabetes mellitus] Uhl D. **Med Monatsschr Pharm** 1990 Mar;13(3):82–3 (Ger)
[Neurologic disorders in diabetes mellitus. Value of evoked somatosensory potentials] de Portugal Alvarez J. **An R Acad Nac Med (Madr)** 1989;106(3):449–54 (Spa)
[Course of peripheral diabetic neuropathy depending on the metabolic control after 6 months of follow-up] Pérez-Lázaro A, et al. **Med Clin (Barc)** 1990 May 12; 94(18):693–6 (Eng. Abstr.) (Spa)
[Evaluation of diabetic vegetative neuropathy using non-invasive cardiovascular explorations] Hidalgo R, et al. **Rev Esp Fisiol** 1989;45 Suppl:293–300 (39 ref.) (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

Preventive effect of long-term aldose reductase inhibition (ponalrestat) on nerve conduction and sural nerve structure in the spontaneously diabetic Bio-Breeding rat. Sima AA, et al. **J Clin Invest** 1990 May;85(5):1410–20
[Aldose reductase inhibitors in diabetic neuropathy] Erkelens DW, et al. **Ned Tijdschr Geneeskd** 1990 Apr 14; 134(15):775–6 (Dut)

RADIOGRAPHY

Diabetic neuroarthropathy of the foot and ankle. Scartozzi G, et al. **J Am Podiatr Med Assoc** 1990 Jun;80(6):298–303 (22 ref.)

SURGERY

Metatarsal head resection for diabetic foot ulcers. Griffiths GD, et al. **Arch Surg** 1990 Jul;125(7):832–5
Arthrodesis of the diabetic neuropathic ankle joint. Stuart MJ, et al. **Clin Orthop** 1990 Apr;(253):209–11
Digital amputations in neuropathic feet [published erratum appears in J Am Podiatr Med Assoc 1990 May;80(5):253] Greteman B, et al. **J Am Podiatr Med Assoc** 1990 Mar; 80(3):120–6
Diabetic foot amputations. Part I: Digital. Gazivoda PL, et al. **J Foot Surg** 1990 Jan–Feb;29(1):72–9 (56 ref.)
The Syme amputation: success in elderly diabetic patients with palpable ankle pulses. Francis H 3d, et al. **J Vasc Surg** 1990 Sep;12(3):237–40

THERAPY

Use of experimental padded hosiery to reduce abnormal foot pressures in diabetic neuropathy. Veves A, et al. **Diabetes Care** 1989 Oct;12(9):653–5
Plaster casts in the management of advanced ischaemic and neuropathic diabetic foot lesions. Borssén B, et al. **Diabetic Med** 1989 Nov;6(8):720–3
How effective is cushioned therapeutic footwear in protecting diabetic feet? A clinical study. Chantelau E, et al. **Diabetic Med** 1990 May;7(4):355–9
European Consensus Document on Critical Limb Ischaemia: implications for diabetes. Tooke JE. **Diabetic Med** 1990 Jul;7(6):544–6
Studies of experimental hosiery in diabetic neuropathic patients with high foot pressures. Veves A, et al. **Diabetic Med** 1990 May;7(4):324–6
Chronic low frequency electrical activation for one week corrects nerve conduction velocity deficits in rats with diabetes of three months duration. Cameron NE, et al. **Diabetologia** 1989 Oct;32(10):759–61
Diabetic neuropathies in the elderly: management update. Riddle MC. **Geriatrics** 1990 Sep;45(9):32–6 (17 ref.)
Reversal of diabetic somatic neuropathy by whole-pancreas transplantation. Orloff MJ, et al. **Surgery** 1990 Aug; 108(2):179–89; discussion 189–90
[Treatment of diabetic neuropathy] Ehler E. **Vnitr Lek** 1989 Nov;35(11):1120–4 (19 ref.) (Eng. Abstr.) (Cze)
[Treatment of diabetic gastroparesis] Hasibeck M. **Z Gastroenterol** 1990 Apr;28 Suppl 1:39–42; discussion 47–8 (22 ref.) (Ger)

DIABETIC RETINOPATHY

Diabetic retinopathy. Davidson JA, et al. **J Med Assoc Ga** 1989 Nov;78(11):763–4 (3 ref.)
The risk of vitreous hemorrhage caused by coronary artery bypass grafting in proliferative diabetic retinopathy [letter] Small KW, et al. **J Thorac Cardiovasc Surg** 1990 Jan; 99(1):176–7
Diabetic retinopathy. Lyons JS, et al. **Md Med J** 1990 Jan; 39(1):91
Diabetic retinopathy in pregnancy: a review. Elman KD, et al. **Obstet Gynecol** 1990 Jan;75(1):119–27 (54 ref.)
[Clinical management of diabetic retinopathy] Fukuda M. **Nippon Ganka Gakkai Zasshi** 1989 Sep;93(9):873–82 (Eng. Abstr.) (Jpn)
[Diabetic retinopathy] Mozherenkov VP, et al. **Sov Med** 1989;(7):39–42 (Rus)
[Changes in the eye in diabetes] Nikolić Lj, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):639–47 (Scc)

BLOOD

Somatomedin-C (SM-C). Study in diabetic patients with and without retinopathy. Nardelli GM, et al. **Acta Diabetol Lat** 1989 Jul–Sep;26(3):217–24
Hypoxic viscosity and diabetic retinopathy [see comments] Rimmer T, et al. **Br J Ophthalmol** 1990 Jul;74(7):400–4 Comment in: Br J Ophthalmol 1990 Jul;74(7):387.
Diabetic retinopathy; a new clue in the puzzle [editorial; comment] Smith R. **Br J Ophthalmol** 1990 Jul;74(7):387 Comment on: Br J Ophthalmol 1990 Jul;74(7):400–4.
Human diabetic serum does not stimulate bovine retinal endothelial cell growth in culture. Kinshuck D, et al. **Curr Eye Res** 1989 Jul;8(7):675–80
Circulating insulin-like growth factor I in type 1 (insulin-dependent) diabetic patients with retinopathy. Arner P, et al. **Diabetologia** 1989 Oct;32(10):753–8
Circulating levels of placental protein 12 (PP 12) in diabetic pregnancy complicated by retinopathy. Briese V, et al. **Exp Clin Endocrinol** 1990 Feb;95(1):105–9
Activity of Daflon 500 mg on the hemorheological disorders in diabetes. Lacombe C, et al. **Int Angiol** 1989 Oct–Dec; 8(4 Suppl):45–8
Long-term blood glucose control and diabetic retinopathy [letter; comment] Finotti P, et al. **Lancet** 1990 Jan 13; 335(8681):107–8 Comment on: Lancet 1989 Oct 7;2(8667):824–8.
Increase of endothelial cell growth by sera from diabetic patients with proliferative retinopathy [letter; comment] Gwinup G, et al. **Lancet** 1990 Mar 10;335(8689):602–3 Comment on: Lancet 1989 Oct 28;2(8670):1050.
Long-term glycaemic control and diabetic retinopathy [see comments] McCance DR, et al. **Lancet** 1989 Oct 7; 2(8667):824–8 Comment in: Lancet 1990 Jan 13;335(8681):107–8.
Increase of endothelial cell growth by sera from diabetic patients with proliferative retinopathy [letter] [see comments] Setiadi H, et al. **Lancet** 1989 Oct 28;2(8670):1050 Comment in: Lancet 1989 Dec 2;2(8675):1329. Comment in: Lancet 1990 Mar 10;335(8689):602–3.
Plasma magnesium and retinopathy in black African diabetics. Erasmus RT, et al. **Trop Geogr Med** 1989 Jul;

41(3):234–7
[Blood sugar regulation and diabetic retinopathy] Hooymans JM. **Ned Tijdschr Geneeskd** 1989 Jul 22;133(29):1438–9 (Dut)
[Blood sugar regulation and diabetic retinopathy (letter)] van der Sluijs FA. **Ned Tijdschr Geneeskd** 1989 Oct 28; 133(43):2143 (Dut)
[Growth hormone in developmental diabetic retinopathy] Grange JD, et al. **Bull Soc Ophtalmol Fr** 1989 May; 89(5):699–700, 703–4 (Fre)
[Prostacyclin-like activity modifying plasma factors in diabetic microangiopathy] Magyari M, et al. **Fortschr Ophthalmol** 1990;87(3):269–73 (Eng. Abstr.) (Ger)
[The reliability of the blood glucose test strip "Glucosignal" in self monitoring of blood glucose by diabetic patients with diabetic retinopathy and acquired color vision disorders] Pilz D, et al. **Z Arztl Fortbild (Jena)** 1989; 83(23):1175–8 (Ger)
[The suitability of the particle count apparatus laboratory scale PSL-1 (Medicor, Budapest) for the sensitive detection of an increased spontaneous aggregation readiness of thrombocytes] Mindner K, et al. **Z Med Lab Diagn** 1989; 30(6):341–2 (Ger)
[Placental protein 12 (PP 12)/insulin-like growth factor binding protein (IGF-bp) in pregnancy in metabolically healthy patients and diabetic patients with retinopathy] Briese V, et al. **Zentralbl Gynakol** 1989;111(18):1215–9 (Eng. Abstr.) (Ger)
[Evaluation of various hemorheologic parameters in diabetes mellitus] Cella A, et al. **Boll Soc Ital Biol Sper** 1990 Apr; 66(4):335–42 (Eng. Abstr.) (Ita)
[Hemorheologic and morphologic alterations in diabetic retinopathy] Pretolani E, et al. **Ric Clin Lab** 1989;19 Suppl 1:173–5 (Ita)
[Determination of serum angiotensin II in proliferative diabetic retinopathy] Volanti S, et al. **Ric Clin Lab** 1989; 19 Suppl 1:177–9 (Ita)
[Growth hormone response to arginine administration in diabetics—with special reference to the multiple regression analysis in association with diabetic retinopathy] Kitada M, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Jun 20; 65(6):558–71 (Eng. Abstr.) (Jpn)

CLASSIFICATION

[Peripheral neovascularization of the retina in diabetic retinopathy: fluorescein angiography classification and results of panretinal laser treatment] Theodossiadis G, et al. **Klin Monatsbl Augenheilkd** 1990 Mar;196(3):143–9 (Eng. Abstr.) (Ger)

COMPLICATIONS

Association of hypomagnesemia with diabetic retinopathy. Hatwal A, et al. **Acta Ophthalmol (Copenh)** 1989 Dec; 67(6):714–6
Diabetic retinopathy related to degree of albuminuria and tubular (low molecular weight) proteinuria in insulin-dependent (type I) diabetes mellitus. Nielsen NV, et al. **Acta Ophthalmol (Copenh)** 1990 Jun;68(3):270–4
Diabetic maculopathy and glaucoma. Smečka Z, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:295–8
Diabetic retinopathy associated with acquired immunodeficiency syndrome. Adán A, et al. **Am J Ophthalmol** 1990 Jun 15;109(6):744–5
Early vitrectomy for severe vitreous hemorrhage in diabetic retinopathy. Four-year results of a randomized trial: Diabetic Retinopathy Study Report 5. The Diabetic Retinopathy Vitrectomy Study Research Group. **Arch Ophthalmol** 1990 Jul;108(7):958–64
The relationship of retinal microaneurysm counts to the 4-year progression of diabetic retinopathy. Klein R, et al. **Arch Ophthalmol** 1989 Dec;107(12):1780–5
Diabetic retinopathy. Kohner EM. **Br Med Bull** 1989 Jan; 45(1):148–73 (111 ref.)
Pseudohallucinations in diabetic eye disease: a natural Rorschach test? Kemperman CJ, et al. **Neth J Med** 1989 Oct;35(3–4):201–3
Posterior vitreous detachment and neovascularization in diabetic retinopathy. Akiba J, et al. **Ophthalmology** 1990 Jul;97(7):889–91
Asymmetric proliferative diabetic retinopathy and carotid artery disease. Duker JS, et al. **Ophthalmology** 1990 Jul; 97(7):869–74
Importance of the vitreous in young diabetics with macular edema. Nasrallah FP, et al. **Ophthalmology** 1989 Oct; 96(10):1511–6; discussion 1516–7
[Intraocular pressure during vitrectomy in the diabetic patient] Chagnon A, et al. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):171–8 (Eng. Abstr.) (Fre)
[Intraocular pressure during vitrectomy in diabetic patients] Chagnon A, et al. **Bull Soc Ophtalmol Fr** 1989 Mar; 89(3):443–8 (Eng. Abstr.) (Fre)
[From micro-aneurysm to retinal detachment caused by traction. Diabetic ocular involvement and current therapeutic approach] Stitznas M, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1407–10 (Fre)
[Cataract surgery in the diabetic] Rouchy JP. **Diabete Metab** 1989 Nov-Dec;15(6):426–8 (3 ref.) (Fre)
[The role of the choroid in diabetic maculopathy] Amalric PM. **J Fr Ophtalmol** 1989;12(10):661–3 (Eng. Abstr.) (Fre)
[Comparative study of efficacy of focal photocoagulation in diabetic macular edema according to the wave length used] Fernandez-Vigo J, et al. **J Fr Ophtalmol** 1989;12(11):785–9 (Eng. Abstr.) (Fre)
[Diabetic papillopathy and bilateral anterior ischemic optic neuropathy] Cohen SY, et al. **Ophtalmologie** 1989 Jun-Aug; 3(3):240–1 (Eng. Abstr.) (Fre)
[Correlation of autonomic neuropathy and retinal microangiopathy in diabetic children] Barkai L Jr, et al. **Orv Hetil** 1989 Sep 17;130(38):2037–40 (Eng. Abstr.) (Hun)
[Cryotherapy of vitreous hemorrhage in diabetic retinopathy] Lenkiewicz E, et al. **Klin Oczna** 1989 Jul-Sep;91(7–9):195–6 (Eng. Abstr.) (Pol)
[Trabeculectomy preceded by retinal panphotocoagulation in the treatment of secondary glaucoma with rubeosis iridis] Szymański A, et al. **Klin Oczna** 1989 Jul-Sep; 91(7–9):199–200 (Eng. Abstr.) (Pol)

DIAGNOSIS

Non-stereo fundus photography as a screening procedure for diabetic retinopathy among patients with type II diabetes. Compared with 60D enhanced slit-lamp examination. Kalm H, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):546–53
Non-stereo photographic screening after panretinal photocoagulation for proliferative diabetic retinopathy. Compared with 60D enhanced slit-lamp examination. Kalm H, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):554–9
The pattern electroretinogram in diabetes. Prager TC, et al. **Am J Ophthalmol** 1990 Mar 15;109(3):279–84
The scotopic threshold response in diabetic retinopathy—a preliminary report. Aylward GW, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):369–72
Proliferative retinopathy and nephropathy at presentation in young insulin dependent diabetics. O'Hare JA. **BMJ** 1990 Mar 3;300(6724):579–80
Non-mydriatic retinal photography as a screening service for general practitioners. Rogers D, et al. **Diabetic Med** 1990 Feb;7(2):165–7
The influence of early diabetes on the pattern electroretinogram. Boschi MC, et al. **Doc Ophthalmol** 1989 Apr;71(4):369–74
Oscillatory potentials in early diabetic retinopathy. van der Torren K, et al. **Doc Ophthalmol** 1989 Apr;71(4):375–9
Blue field entoptoscopy in diabetic retinopathy. Mittl RN, et al. **Indian J Ophthalmol** 1990 Jan-Mar;38(1):10–3
Growth hormone and diabetic retinopathy. Singh R, et al. **Indian J Ophthalmol** 1989 Jan-Mar;37(1):5–7
Retinopathy in insulin dependent diabetes mellitus (IDDM) in south India. Mohan R, et al. **J Assoc Physicians India** 1989 Jun;37(6):370–3
Early diagnosis of subclinical complications in insulin dependent diabetic children and adolescents. Chiumello G, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):101–4
Diabetic retinopathy: recent advances to eliminate treatable blindness. Goldman EJ. **Md Med J** 1990 Jul;39(7):643–7
Importance of fluorescein angiography in the early detection and therapy of diabetic retinopathy. Ivanišević M, et al. **Ophthalmologica** 1990;201(1):9–13
Detecting and treating retinopathy in patients with type I diabetes mellitus. A health policy model. Javitt JC, et al. **Ophthalmology** 1990 Apr;97(4):483–94; discussion 494–5
Ophthalmoscopy versus non-mydriatic fundus photography in the detection of diabetic retinopathy in black patients. Mollentze WF, et al. **S Afr Med J** 1990 Sep 1;78(5):248–50
Diagnosing diabetic retinopathy by general practitioners and by a hospital physician. The use of fundus photos. van de Kar W, et al. **Scand J Prim Health Care** 1990 Mar; 8(1):19–23
[Early diagnosis of late complications in juvenile diabetics] Dvořáková L, et al. **Cas Lek Cesk** 1990 Feb 16; 129(7):198–203 (Eng. Abstr.) (Cze)
[Diabetic papillopathy. Apropos of a case in a young insulin-dependent diabetic patient, during pregnancy] Arnaud B, et al. **Bull Soc Ophtalmol Fr** 1989 Jun-Jul; 89(6–7):903–7 (14 ref.) (Fre)
[Progression of diabetic retinopathy following cataract extraction] Vignanelli M. **Klin Monatsbl Augenheilkd** 1990 May;196(5):334–7 (Eng. Abstr.) (Fre)
[A new method in the analysis of vitreous fluorophotometry. Results in early diabetic retinopathy] Roy MS, et al. **Ophtalmologie** 1989 Jun-Aug;3(3):214–6 (Eng. Abstr.) (Fre)
[Quantitative determination of 5 vitreal proteins in the normal vitreous body and proliferative retinal diseases] Clausen R, et al. **Fortschr Ophthalmol** 1990;87(3):283–6 (Eng. Abstr.) (Ger)
[Automated flicker perimetry] Lachenmayr B, et al. **Fortschr Ophthalmol** 1989;86(6):695–701 (Eng. Abstr.) (Ger)
[Data processing at the special diabetes ambulatory center of the Innsbruck Ophthalmology University Clinic—electronic data processing in ophthalmology] Kieselbach G, et al. **Klin Monatsbl Augenheilkd** 1990 Mar; 196(3):179–81 (Eng. Abstr.) (Ger)
[Diagnostic value of electrophysiologic studies in diabetics in our experience] Palacz O, et al. **Klin Oczna** 1989 Jul-Sep; 91(7–9):191–3 (Eng. Abstr.) (Pol)
[The immunodiagnosis of diabetic retinopathy] Zaĭtseva NS, et al. **Vestn Oftalmol** 1990 Jan-Feb;106(1):46–9 (Eng. Abstr.) (Rus)
[Early detection of diabetic retinopathy in adult-onset diabetes patients] Ivanišević M, et al. **Lijec Vjesn** 1989 Sep-Oct;111(9–10):326–30 (Eng. Abstr.) (Scr)
[Fluorescence angiography in children with type I diabetes mellitus] Juhás T, et al. **Cesk Pediatr** 1989 Jul;44(7):394–6 (Eng. Abstr.) (Slo)

DRUG THERAPY

Effect of one year continuous subcutaneous infusion of a somatostatin analogue, octreotide, on early retinopathy, metabolic control and thyroid function in Type I (insulin-dependent) diabetes mellitus. Kirkegaard C, et al. **Acta Endocrinol (Copenh)** 1990 Jun;122(6):766–72
Treatment of perimacular proliferations in diabetic ophthalmopathy with fluorouracil. Smečka Z, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:307–10
A randomized trial of sorbinil, an aldose reductase inhibitor, in diabetic retinopathy. Sorbinil Retinopathy Trial Research Group. **Arch Ophthalmol** 1990 Sep; 108(9):1234–44
Aldose reductase inhibition. The chemical key to the control of diabetic retinopathy? Frank RN. **Arch Ophthalmol** 1990 Sep;108(9):1229–31
Effect of calcium dobesilate on the blood–retinal barrier in early diabetic retinopathy. Leite EB, et al. **Int Ophthalmol** 1990 Mar;14(2):81–8
[Surveillance using vitreo-fluoro-photometry of diabetics treated with an insulin pump, without or with minimal retinopathy. Results after 3 years] Bordat B, et al. **J Fr Ophtalmol** 1989;12(6–7):421–5 (Eng. Abstr.) (Fre)
[Effect of prostaglandin synthesis inhibitors of diabetic cystoid macular edema] Kieselbach G, et al. **Ophthalmologica** 1990;200(3):150–3 (Eng. Abstr.) (Ger)
[Medical treatment of diabetic retinopathy] Brancato R, et al. **Recenti Prog Med** 1990 Feb;81(2):112–8 (40 ref.) (Eng. Abstr.) (Ita)
[Effects of pentoxifylline on the ocular rheographic pulse in diabetic patients] Colombati S, et al. **Ric Clin Lab** 1989; 19 Suppl 1:185–7 (Ita)
[Rheographic effects of timolol maleate in a collyrium on the ocular microcirculation in diabetic patients] Colombati S, et al. **Ric Clin Lab** 1989;19 Suppl 1:189–91 (Ita)
[Clinical utility of long-term administration of trapidil (MDR-1865) in the treatment of diabetic retinopathy] Fukuda M, et al. **Nippon Ganka Gakkai Zasshi** 1990 Apr; 94(4):394–403 (Eng. Abstr.) (Jpn)

ENZYMOLOGY

Elevated serum levels of angiotensin-converting enzyme in patients with diabetic retinopathy. Migdalis IN, et al. **South Med J** 1990 Apr;83(4):425–7

EPIDEMIOLOGY

The validity of estimating the incidence of diabetic retinopathy from prevalence [see comments] Moss SE, et al. **Am J Epidemiol** 1990 Apr;131(4):644–51 Comment in: Am J Epidemiol 1990 Apr;131(4):743–4.
Re: "The validity of estimating the incidence of diabetic retinopathy from prevalence" [letter; comment] Podgor MJ, et al. **Am J Epidemiol** 1990 Apr;131(4):743–4 Comment on: Am J Epidemiol 1990 Apr;131(4):644–51.
Prevalence of undiagnosed eye disease in high-risk diabetic individuals. Sprafka JM, et al. **Arch Intern Med** 1990 Apr; 150(4):857–61
The Wisconsin epidemiologic study of diabetic retinopathy: an update. Klein R, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):19–22
Inter-observer comparisons of ophthalmoscopic assessment of diabetic retinopathy. Lienert RT. **Aust N Z J Ophthalmol** 1989 Nov;17(4):363–8
Update and implications from the Newcastle diabetic retinopathy study. Mitchell P, et al. **Aust N Z J Ophthalmol** 1990 Feb;18(1):13–7
Prevalence and risk factors of diabetic retinopathy in non-Hispanic whites and Hispanics with NIDDM. San Luis Valley Diabetes Study. Hamman RF, et al. **Diabetes** 1989 Oct;38(10):1231–7
Factors associated with avoidance of severe complications after 25 yr of IDDM. Pittsburgh Epidemiology of Diabetes Complications Study I. Orchard TJ, et al. **Diabetes Care** 1990 Jul;13(7):741–7
Effect of socioeconomic status on hyperglycemia and retinopathy levels [letter; comment] Raheja BS, et al. **Diabetes Care** 1990 Jan;13(1):81–2 Comment on: Diabetes Care 1989 Feb;12(2):128–34.
The Wisconsin epidemiological study of diabetic retinopathy: a review. Klein R, et al. **Diabetes Metab Rev** 1989 Nov; 5(7):559–70 (74 ref.)
Putative risk factors associated with retinopathy in patients with diabetes diagnosed at or after 30 years of age. Agardh E, et al. **Diabetic Med** 1989 Nov;6(8):724–7
Using insulin U 100 conversion to estimate the prevalence and problems of insulin-treated diabetic patients in the Republic of Seychelles. Sullivan FM, et al. **Diabetologia** 1990 Mar;33(3):184–5
Diabetic retinopathy in chronic pancreatitis. Gullo L, et al. **Gastroenterology** 1990 Jun;98(6):1577–81
Diabetic maculopathy in a Jamaican population. Moriarty BJ, et al. **Int Ophthalmol** 1989 Sep;13(5):301–3
The Wisconsin epidemiologic study of diabetic retinopathy. XI. The incidence of macular edema. Klein R, et al.

Ophthalmology 1989 Oct;96(10):1501–10

[Epidemiology of diabetic retinopathy] Cantagallo A. Ann Ig 1989 May–Aug;1(3–4):591–620 (85 ref.) (Eng. Abstr.) (Ita)

[Diabetes and ocular complications] Takeda M. Hokkaido Igaku Zasshi 1989 Jul;64(4):391–6 (Jpn)

[The characteristics of the course of diabetic retinopathy in myopia] Sultanov MIu, et al. Vestn Oftalmol 1990 Jan–Feb; 106(1):49–51 (Eng. Abstr.) (Rus)

ETIOLOGY

Nutritional factors in diabetics with and without retinopathy. Roy MS, et al. Am J Clin Nutr 1989 Oct;50(4):728–30

Class II antigen expression in diabetic preretinal membranes. Baudouin C, et al. Am J Ophthalmol 1990 Jan 15; 109(1):70–4

The use of the Markov process in describing the natural course of diabetic retinopathy. Garg SK, et al. Arch Ophthalmol 1990 Sep;108(9):1245–7

The relationship of puberty to diabetic retinopathy. Murphy RP, et al. Arch Ophthalmol 1990 Feb;108(2):215–8

Basic fibroblast growth factor levels in the vitreous of patients with proliferative diabetic retinopathy. Sivalingam A, et al. Arch Ophthalmol 1990 Jun;108(6):869–72

Proliferative retinopathy in a woman with growth hormone deficiency and diabetes mellitus. Thivolet CH, et al. BMJ 1990 Apr 14;300(6730):979–80

Diabetes and retinal function [comment] Smith R. Br J Ophthalmol 1990 Jul;74(7):385 (8 ref.) Comment on: Br J Ophthalmol 1990 Jul;74(7):388–92.

Pathogenesis of diabetic retinopathy. Engerman RL. Diabetes 1989 Oct;38(10):1203–6 (20 ref.)

Loss of heparan sulphate proteoglycan and retinal microinfarcts in diabetes mellitus [letter; comment] Roy MS, et al. Diabetologia 1989 Oct;32(10):766 Comment on: Diabetologia 1989 Apr;32(4):219–26.

Long–term metabolic control and diabetic retinopathy [letter] McNally PG, et al. Lancet 1989 Nov 18;2(8673):1227

Diabetic retinopathy. A synthesis of perspectives. Merimee TJ. N Engl J Med 1990 Apr 5;322(14):978–83 (80 ref.)

Blood pressure and retinopathy in type I diabetes. Chase HP, et al. Ophthalmology 1990 Feb;97(2):155–9

Do oscillatory potentials and macular recovery time reflect metabolic control of diabetes mellitus? [letter; comment] Micieva E, et al. Ophthalmology 1989 Aug;96(8):1274–6 Comment on: Ophthalmology 1988 Oct;95(10):1358–66.

Diabetes 2000—closing the gap [editorial] Smith RE, et al. Ophthalmology 1990 Feb;97(2):153–4

Diabetic retinopathy: possible etiological role of hyperglycemia. Klein BE, et al. Pediatrician 1990; 17(3):177–82

[Abnormal inositol phospholipid metabolism as a main factor causing pericyte drop–out in diabetic retinopathy] Li WY. Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1989 Dec; 11(6):395–401 (Eng. Abstr.) (Chi)

[Light diabetes mellitus, severe sequelae] van Ballegooie E, et al. Ned Tijdschr Geneeskd 1990 Feb 10;134(6):265–7 (Dut)

[The prevalence of late complications of type II diabetes mellitus (published erratum appears in Ned Tijdschr Geneeskd 1990 Mar 10;134(10):512)] Verhoeven S, et al. Ned Tijdschr Geneeskd 1990 Feb 10;134(6):283–7 (Eng. Abstr.) (Dut)

[Diabetic papillopathy and bilateral ischemic anterior optic neuropathy (letter)] Chaine G, et al. Ann Med Interne (Paris) 1989;140(5):415–8 (Fre)

[Causes and treatment of diabetic complications] Sakamoto N. Nippon Naika Gakkai Zasshi 1989 Nov;78(11):1540–3 (Jpn)

[Factors determining the presence and predicting the development of diabetic retinopathy] Kopczyński J, et al. Pol Arch Med Wewn 1989 Aug–Sep;82(2–3):86–92 (Eng. Abstr.) (Pol)

[Immunologic phenomena in patients with proliferative retinopathy in diabetes mellitus type 1] Pawińska M, et al. Pol Arch Med Wewn 1989 Apr;81(4):240–6 (Eng. Abstr.) (Pol)

GENETICS

Comparison of DNA breaks in diabetic dogs and galactosemic dogs developing retinopathy. Kern TS, et al. Curr Eye Res 1989 Aug;8(8):765–9

Genetic marker in juvenile diabetic retinopathy. Khosla PK, et al. Indian J Ophthalmol 1989 Jan–Mar;37(1):2–4

HISTORY

Cezanne. Ravin JG. Ohio Med 1990 Feb;86(2):84–5

IMMUNOLOGY

Immunoglobulin G, complement factor C3 and lymphocytes in proliferative intraocular disorders. Weller M, et al. Int Ophthalmol 1990 Jul;14(4):277–83

[Circulating immune complexes in the blood and anterior chamber fluid in patients with glaucoma and diabetic angioretinopathy complicated by myopia and senile cataract] Semenova GS, et al. Vestn Oftalmol 1989 Jul–Aug;105(4):70–1 (Eng. Abstr.) (Rus)

METABOLISM

Biphasic fluorescence decay in kinetic vitreous fluorophotometry. Kayazawa F, et al. Ann Ophthalmol 1989 Nov;21(11):425–8

Aspects of growth hormone control in diabetes. Hyer SL, et al. Aust N Z J Ophthalmol 1990 Feb;18(1):33–9 (51 ref.)

Proliferative retinopathy with growth hormone deficiency and diabetes mellitus [letter] Quin JD, et al. BMJ 1990 Jun 16;300(6739):1586–7

Lens protein glycation and the subsequent degree of opacity in streptozotocin–diabetic rats. Yano M, et al. Diabetes Res Clin Pract 1989 Nov 6;7(4):259–62

Effect of antihypertensive treatment on blood–retinal barrier permeability to fluorescein in hypertensive type 1 (insulin–dependent) diabetic patients with background retinopathy. Parving HH, et al. Diabetologia 1989 Jul; 32(7):440–4

Oxygen and diabetic eye disease. Stefansson E. Graefes Arch Clin Exp Ophthalmol 1990;228(2):120–3 (26 ref.)

Raised endothelial cell stimulating angiogenic factor in diabetic retinopathy [letter; comment] Taylor CM, et al. Lancet 1989 Dec 2;2(8675):1329 Comment on: Lancet 1989 Oct 28;2(8670):1050.

Prostanoids in the vitreous of diabetic and nondiabetic human eyes with retinal detachment. Naveh N, et al. Ophthalmic Res 1990;22(1):3–11

Iron–binding proteins in the human vitreous: lactoferrin and transferrin in health and in proliferative intraocular disorders. Weller M, et al. Ophthalmic Res 1990; 22(3):194–200

[A re–evaluation of pupillary sensitivity to autonomics in diabetic patients] Sugiyama T, et al. Nippon Ganka Gakkai Zasshi 1990 Apr;94(4):413–7 (Eng. Abstr.) (Jpn)

PATHOLOGY

Diabetic maculopathy and cataract extraction. Smečka Z, et al. Acta Univ Palacki Olomuc Fac Med 1989;122:291–4

Smokers and diabetic maculopathy. Smečková M, et al. Acta Univ Palacki Olomuc Fac Med 1989;122:299–302

SEM and TEM analyses of isolated human retinal microvessel basement membranes in diabetic retinopathy. Carlson EC, et al. Anat Rec 1990 Mar;226(3):295–306

Is blood pressure a predictor of the incidence or progression of diabetic retinopathy? Klein R, et al. Arch Intern Med 1989 Nov;149(11):2427–32

Accelerated ocular neovascularisation in diabetics following posterior chamber lens implantation. Prasad P, et al. Br J Ophthalmol 1990 May;74(5):313–4

Intramural pericyte degeneration in early diabetic retinopathy study in vitro. Li WY, et al. Chin Med J [Engl] 1990 Jan;103(1):7–13

Augmented polyol pathway activity and retinal pigment epithelial permeability in the diabetic BB rat. Chakrabarti S, et al. Diabetes Res Clin Pract 1990 Jan;8(1):1–11

Aldose reductase and pericyte–endothelial cell contacts in retina and optic nerve [published erratum appears in Invest Ophthalmol Vis Sci 1990 Apr;31(4):782–3] Robison WG Jr, et al. Invest Ophthalmol Vis Sci 1989 Nov;30(11):2293–9

Relationship of corneal endothelial morphology to diabetic retinopathy, duration of diabetes and glycemic control. Matsuda M, et al. Jpn J Ophthalmol 1990;34(1):53–6

[Growth and contractility of cells from diabetic pre–retinal membrane in primary tissue culture] Jiang DY. Chung Hua Yen Ko Tsa Chih 1989 Jul;25(4):214–7 (Eng. Abstr.) (Chi)

[The biochemical mechanism in vitro of pericyte drop–out in diabetic retinopathy] Li WY. Chung Hua Yen Ko Tsa Chih 1989 Jul;25(4):222–6 (Eng. Abstr.) (Chi)

[Quantification of the foveolar zone in normal and diabetic patients] Leite E, et al. J Fr Ophtalmol 1989;12(10):665–8 (Eng. Abstr.) (Fre)

[Detection of coagulation factor XIII in the vitreous body and periretinal membranes in proliferative retinal diseases] Bresgen M, et al. Fortschr Ophthalmol 1990;87(3):279–82 (Eng. Abstr.) (Ger)

[Immunohistochemical differentiation of periretinal membranes] Meier–Gibbons F, et al. Klin Monatsbl Augenheilkd 1990 May;196(5):372–3 (Eng. Abstr.) (Ger)

[Morphological study on the intraocular proliferative membrane of proliferative diabetic retinopathy and proliferative vitreoretinopathy] Aoyama R. Nippon Ganka Gakkai Zasshi 1990 Apr;94(4):383–93 (Eng. Abstr.) (Jpn)

[Early unilateral preclinical diabetic retinopathy] Ivanišević M, et al. Vojnosanit Pregl 1990 Mar–Apr;47(2):105–6 (Scr)

PHYSIOPATHOLOGY

Relationship between retinal ischemia and cardiovascular autonomic damage in diabetes. Giardullo A, et al. Acta Diabetol Lat 1989 Jul–Sep;26(3):245–55

Macular recovery during onset and development of diabetic retinopathy in childhood and adolescence. Frost–Larsen K, et al. Acta Ophthalmol (Copenh) 1989 Aug;67(4):401–4

Diabetic retinopathy. Its relationship with intraocular pressure. Jain IS, et al. Arch Ophthalmol 1967 Aug; 78(2):198–200

Electrophysiological changes in juvenile diabetics without retinopathy. Juen S, et al. Arch Ophthalmol 1990 Mar; 108(3):372–5

Localised blood–retinal barrier leakage and retinal light sensitivity in diabetic retinopathy [see comments] Bek T, et al. Br J Ophthalmol 1990 Jul;74(7):388–92 Comment in: Br J Ophthalmol 1990 Jul;74(7):385.

Macular recovery function (nyctometry) in diabetics without and with early retinopathy. Midena E, et al. Br J Ophthalmol 1990 Feb;74(2):106–8

Impact of blood pressure on diabetic retinopathy. Janka HU, et al. Diabete Metab 1989;15(5 Pt 2):333–7 (27 ref.)

Evidence for early impairment of macular function with pattern ERG in type I diabetic patients. Caputo S, et al. Diabetes Care 1990 Apr;13(4):412–8

Effect of pregnancy on progression of diabetic retinopathy. Klein BE, et al. Diabetes Care 1990 Jan;13(1):34–40

Growth factors and diabetic complications. Flyvbjerg A. Diabetic Med 1990 Jun;7(5):387–99 (165 ref.)

Autonomic neuropathy and the pathogenesis of glaucoma in diabetes mellitus. Moore MV, et al. Diabetic Med 1989 Nov;6(8):717–9

Steady–state pattern electroretinogram in insulin–dependent diabetics with no or minimal retinopathy. Falsini B, et al. Doc Ophthalmol 1989 Oct;73(2):193–200

The scotopic threshold response in diabetic retinopathy. Aylward GW. Eye 1989;3 (Pt 5):626–37

Quantitative assessment of aqueous flare intensity in diabetes. Oshika T, et al. Graefes Arch Clin Exp Ophthalmol 1989; 227(6):518–20

Diabetic non diabetic maculopathy—a new entity. Azad R, et al. Indian J Ophthalmol 1990 Jan–Mar;38(1):7–9

Hue discrimination and S cone pathway sensitivity in early diabetic retinopathy. Greenstein V, et al. Invest Ophthalmol Vis Sci 1990 Jun;31(6):1008–14

Diabetic retinopathy [letter] N Engl J Med 1990 Aug 30; 323(9):613–4

Fluorophotometric analysis of the blood retinal barrier: two techniques compared. Raines MF, et al. Ophthalmic Res 1989;21(6):446–9

Progression of diabetic retinopathy after pancreas transplantation. The University of Michigan Pancreas Transplant Evaluation Committee. Petersen MR, et al. Ophthalmology 1990 Apr;97(4):496–500; discussion 501–2

Visual field defects in patients with insulin–dependent and noninsulin–dependent diabetes. Trick GL, et al. Ophthalmology 1990 Apr;97(4):475–82

Course of diabetic retinopathy after pancreas transplantation. Königsrainer A, et al. Transplant Proc 1990 Apr; 22(2):689–90

[Diabetic retinopathy and pregnancy] Villatte–Cathelineau B. Diabete Metab 1990;16(2 Pt 2):131–6 (32 ref.) (Eng. Abstr.) (Fre)

[Follow–up of early diabetic maculopathy by angiography and fluorophotometry] Cunha–Vaz J, et al. J Fr Ophtalmol 1989;12(10):657–9 (Eng. Abstr.) (Fre)

[Color vision in patients with juvenile onset diabetes mellitus] Gerkowicz M. Klin Oczna 1989 Jul–Sep;91(7–9):194 (Eng. Abstr.) (Pol)

PREVENTION & CONTROL

Prevention of retinal vessel changes associated with diabetic retinopathy in galactose–fed dogs by aldose reductase inhibitors. Kador PF, et al. Arch Ophthalmol 1990 Sep; 108(9):1301–9

The prevention of diabetic retinal and renal basement membrane thickening in mice by islet cell allografts. Gillies MC, et al. Aust N Z J Ophthalmol 1990 Feb;18(1):27–32

Prevention of blindness by screening for diabetic retinopathy: a quantitative assessment [see comments] Rohan TE, et al. BMJ 1989 Nov 11;299(6709):1198–201 Comment in: BMJ 1989 Dec 16;299(6714):1528.

Prevention of blindness by screening for diabetic retinopathy [letter; comment] Wormald R, et al. BMJ 1989 Dec 16; 299(6714):1528 Comment on: BMJ 1989 Nov 11;299(6709):1198–201.

Diabetic glycemic control and retinal blood flow. Grunwald JE, et al. Diabetes 1990 May;39(5):602–7

Effect of treatment with an inhibitor of platelet aggregation on the evolution of background retinopathy: 2 years of follow–up. Esmatjes E, et al. Diabetes Res Clin Pract 1989 Nov 6;7(4):285–91

Effect of aldose reductase inhibitors on the progression of retinopathy in galactose–fed dogs. Akagi Y, et al. Exp Eye Res 1990 Jun;50(6):635–9

Diabetic retinopathy: a physician's view. Ward JD. Eye 1990; 4 (Pt 1):169–73 (23 ref.)

Can retinopathy be prevented? Weber B, et al. Indian J Pediatr 1989 Nov–Dec;56 Suppl 1:S99–107 (53 ref.)

Reduction of basement membrane thickening in diabetic cat retina by sulindac. Mansour SZ, et al. Invest Ophthalmol Vis Sci 1990 Mar 1;31(3):457–63

Diabetic–like retinopathy in rats prevented with an aldose reductase inhibitor. Robison WG Jr, et al. Invest Ophthalmol Vis Sci 1989 Nov;30(11):2285–92

Factors associated with compliance following diabetic eye screening. Newcomb PA, et al. J Diabetic Complications 1990 Jan–Mar;4(1):8–14

The Georgia diabetic retinopathy screening study. Wilkes SR, et al. J Med Assoc Ga 1989 Nov;78(11):765–7

Glucose control and renal and retinal complications of diabetes mellitus [letter; comment] JAMA 1990 Aug 1; 264(5):573–4 Comment on: JAMA 1989 Feb

24;261(8):1155–60.
Diabetes 2000—elimination of preventable blindness from diabetes by the year 2000 [editorial] Hagan JC 3d. **Mo Med** 1990 Jun;87(6):335–6
Good control slows diabetic retinopathy. **Practitioner** 1989 Nov 22;233(1479):1520
Ophthalmic screening for diabetics: the importance of physician–ophthalmologist collaboration in the prevention of blindness. Chew SJ, et al. **Singapore Med J** 1990 Feb; 31(1):26–9
[Diabetes and the insulin pump: functional results after 5 consecutive years of permanent use] Mirouze J, et al. **Bull Soc Ophtalmol Fr** 1989 Mar;89(3):437–40 **(Fre)**
[Prevention and early treatment of diabetic retinopathy] Matsuyama S. **Nippon Ganka Gakkai Zasshi** 1990 Jan; 94(1):89–90 **(Jpn)**

PSYCHOLOGY

Of blindness and courage. Underwood CR. **J Med Assoc Ga** 1989 Nov;78(11):735–6

REHABILITATION

Cardiovascular conditioning in individuals with diabetic retinopathy. Bernbaum M, et al. **Diabetes Care** 1989 Nov–Dec;12(10):740–2

SURGERY

Mild diabetic rubeosis and panretinal photocoagulation. Karhan J, et al. **Acta Univ Palacki Olomuc Fac Med** 1989; 122:303–6
Iris neovascularization after central retinal artery obstruction despite previous panretinal photocoagulation for diabetic retinopathy. Vander JF, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):464–8
Pancreatic islet transplantation ameliorates the effect of diabetes on retinal capillary endothelial cell kinetics. Cuthbertson RA, et al. **Curr Eye Res** 1989 Jul;8(7):681–6
Reversible changes of visual acuity and pattern–electroretinograms after blue–green argon laser photocoagulation of diabetic patients. Gottlob I, et al. **Doc Ophthalmol** 1989 Jun;72(2):105–13
Long term effectiveness of photocoagulation for diabetic maculopathy. Davies EG, et al. **Eye** 1989;3 (Pt 6):764–7
Electroretinographic findings in panretinal photocoagulation for diabetic retinopathy. A randomized study with blue–green argon and red krypton lasers. Capoferri C, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(3):232–6
Posterior vitreous detachment following panretinal laser photocoagulation. Sebag J, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):5–8
The effect of short versus long exposure times of argon laser panretinal photocoagulation on proliferative diabetic retinopathy. Wade EC, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(3):226–31
Significance of various systemic and ocular parameters in the long–term prognosis after diabetic vitrectomy. Summanen P. **Int Ophthalmol** 1989 Sep;13(5):311–9
Semiconductor diode lasers: a new laser light source in ophthalmology. Balles MW, et al. **Int Ophthalmol Clin** 1990 Spring;30(2):77–83 (24 ref.)
Neovascular glaucoma following pars plana vitrectomy for complications of diabetic retinopathy. Wand M, et al. **Ophthalmic Surg** 1990 Feb;21(2):113–8
Histopathology findings following retinal tack implantation. Daus W, et al. **Ophthalmologica** 1989;199(4):162–4
Vitrectomy for diabetic eye disease. The prognostic value of pre–operative electroretinography and visual evoked cortical potentials. Summanen P. **Ophthalmologica** 1989; 199(2–3):60–71
Retinal blood flow regulation and the clinical response to panretinal photocoagulation in proliferative diabetic retinopathy. Grunwald JE, et al. **Ophthalmology** 1989 Oct; 96(10):1518–22
Hemostatic effects of air versus fluid in diabetic vitrectomy. Joondeph BC, et al. **Ophthalmology** 1989 Dec; 96(12):1701–6; discussion 1706–7
Procoagulant effects of intraocular sodium hyaluronate (Healon) after phakic diabetic vitrectomy. A prospective, randomized study. Packer AJ, et al. **Ophthalmology** 1989 Oct;96(10):1491–4
Vitreous hemorrhage after closed vitrectomy for proliferative diabetic retinopathy. Tolentino FI, et al. **Ophthalmology** 1989 Oct;96(10):1495–500
Assessment of the factors influencing successful clinical islet transplantation. Farkas G, et al. **Transplant Proc** 1990 Aug; 22(4):2054
Alteration in diabetic retinopathy and nephropathy following islet transplantation. Farkas G, et al. **Transplant Proc** 1990 Apr;22(2):765–6
[Laser treatment for pre–proliferative and proliferative diabetic retinopathy] Zhang CF. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):329–32 (Eng. Abstr.) **(Chi)**
[Clinical study on preproliferative and proliferative diabetic retinopathy] Zhang CF. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):242–5 (Eng. Abstr.) **(Chi)**
[Cryoretinopexy in the treatment of proliferative diabetic retinopathies with hemophthalmos] Haicl P. **Cesk Oftalmol** 1989 Jul;45(4):279–87 (Eng. Abstr.) **(Cze)**
[Laser therapy of diabetic retinopathy in pregnancy] Stibor V, et al. **Cesk Oftalmol** 1989 Sep;45(5):365–7 (Eng. Abstr.) **(Cze)**
[The treatment of diabetic retinopathy: past, present and future (letter)] Hendrikse F. **Ned Tijdschr Geneeskd** 1989 Nov 4;133(44):2194–5 **(Dut)**
[The treatment of diabetic retinopathy: past, present and future] Polak BC, et al. **Ned Tijdschr Geneeskd** 1989 Aug 26;133(34):1675–9 (39 ref.) **(Dut)**
[Functional consequences of focal photocoagulation in diabetic macular edema] Fernandez–Vigo J, et al. **J Fr Ophtalmol** 1989;12(10):691–5 (Eng. Abstr.) **(Fre)**
[Daunomycin in vitrectomy of complicated diabetic retinal detachment] Hermeking H, et al. **Fortschr Ophthalmol** 1990; 87(3):287–9 (Eng. Abstr.) **(Ger)**
[Loss of corneal endothelial cells following pars plana vitrectomy and silicone oil implantation] Legler U, et al. **Fortschr Ophthalmol** 1990;87(3):290–3 (Eng. Abstr.) **(Ger)**
[Keratopathy following vitrectomy with silicone oil injection] Lemmen KD, et al. **Fortschr Ophthalmol** 1989; 86(6):570–3 (Eng. Abstr.) **(Ger)**
[Stage–related treatment of diabetic retinopathy] Lucke K, et al. **Internist (Berl)** 1990 Mar;31(3):236–42 (21 ref.) **(Ger)**
[Recommendation for lens implantation following vitreoretinal silicone oil surgery] Biermeyer H, et al. **Klin Monatsbl Augenheilkd** 1990 Jul;197(1):6–8 (Eng. Abstr.) **(Ger)**
[Measuring the vascular caliber in diabetic retinopathy before and following photocoagulation] Koerner F, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):354–6 (Eng. Abstr.) **(Ger)**
[Vitrectomy in florid proliferative diabetic retinopathy] Kieselbach G. **Ophthalmologica** 1989;199(4):141–5 (Eng. Abstr.) **(Ger)**
[PCL implantation in diabetic patients—examination of CME and maculopathy] Iwase K, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jun;94(6):586–92 (Eng. Abstr.) **(Jpn)**
[Effects of photocoagulation on diabetic macular edema] Kojima K, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jan; 94(1):54–60 (Eng. Abstr.) **(Jpn)**
[Classification of diabetic retinopathy and application standard of photocoagulation] Matsui M, et al. **Nippon Ganka Gakkai Zasshi** 1989 Aug;93(8):803–8 (10 ref.) (Eng. Abstr.) **(Jpn)**
[Photocoagulation in diabetes mellitus—our results] Stankiewicz A, et al. **Klin Oczna** 1989 Jul–Sep; 91(7–9):197–8 (Eng. Abstr.) **(Pol)**
[Surgical treatment of the sequelae of proliferative diabetic retinopathy in the posterior segment of the eye] Ignjačev M, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):655–60 **(Scc)**

THERAPY

Re: "A method for combining matched and unmatched binary data: application to randomized, controlled trials of photocoagulation in the treatment of diabetic retinopathy" [letter; comment] Greenland S. **Am J Epidemiol** 1990 Jul;132(1):197–9 Comment on: Am J Epidemiol 1989 Aug;130(2):371–8.
Assessment of visual–field changes before and after focal photocoagulation for clinically significant diabetic macular edema. Sims LM, et al. **Ophthalmologica** 1990;200(3):133–41
[Recent advances in the treatment of diabetic retinopathy] Fukuda M. **Nippon Rinsho** 1989 Nov;47(11):2521–6 **(Jpn)**

URINE

Microalbuminuria and diabetic complications in Chinese non–insulin–dependent diabetic patients: a prospective study. Tai TY, et al. **Diabetes Res Clin Pract** 1990 Apr; 9(1):59–63

DIACETYL see under **BUTANONES**

DIACETYLMORPHINE

Severe non–occlusive ischemic stroke in young heroin addicts. Jensen R, et al. **Acta Neurol Scand** 1990 Apr; 81(4):354–7
Cervical osteomyelitis due to i.v. heroin use: radiologic findings in 14 patients. Endress C, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):333–5
Cardiac screening for pregnant intravenous drug abusers. Henderson CE, et al. **Am J Perinatol** 1989 Oct;6(4):397–9
Aflatoxins and heroin. Hendrickse RG, et al. **BMJ** 1989 Aug 19;299(6697):492–3
Acute pleurisy in an intravenous drug abuser. Glatt AE. **Hosp Pract [Off]** 1990 Feb 15;25(2):155, 158, 160–2 (14 ref.)
Remission and relapse in heroin users and implications for management: treatment control or risk reduction. Robertson JR, et al. **Int J Addict** 1989 Mar;24(3):229–46
Nutritional effects of marijuana, heroin, cocaine, and nicotine. Mohs ME, et al. **J Am Diet Assoc** 1990 Sep;90(9):1261–7 (67 ref.)
Socio–demographic features of cannabis and heroin abuse in Bombay. Shastri SS, et al. **J Postgrad Med** 1989 Oct; 35(4):196–8
From the Alcohol, Drug Abuse, and Mental Health Administration. Goodwin FK. **JAMA** 1989 Nov 17; 262(19):2654
Hair analysis for drugs of abuse [letter] [see comments] Strang J, et al. **Lancet** 1990 Mar 24;335(8691):740 Comment in: Lancet 1990 Apr 21;335(8695):980.
Hepatitis C virus in intravenous drug users [see comments] Bell J, et al. **Med J Aust** 1990 Sep 3;153(5):274–6 Comment in: Med J Aust 1990 Sep 3;153(5):247–9.
Resolution of nephrotic syndrome secondary heroin–associated renal amyloidosis [letter] Soler Amigo J, et al. **Nephrol Dial Transplant** 1990;5(2):158
Selective D1 and D2 dopamine antagonists decrease response rates of food–maintained behavior and reduce the discriminative stimulus produced by heroin. Corrigall WA, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):351–5
Gentamicin–resistant enterococcal endocarditis: the need for routine screening for high–level resistance to aminoglycosides. Libertin CR, et al. **South Med J** 1990 Apr;83(4):458–60
[Procedures and findings in the study of "body–packing" in Hannover] Eidam J, et al. **Beitr Gerichtl Med** 1989; 47:193–202 (Eng. Abstr.) **(Ger)**
[Internuclear ophthalmoplegia related to opiate overdose (letter)] Gómez Manzano C, et al. **Med Clin (Barc)** 1990 Apr 28;94(16):637 **(Spa)**
[Acute unilateral edema of the lung in patient with heroin overdose and treated with intravenous naloxone (letter)] Navarro Reynés A, et al. **Med Clin (Barc)** 1990 Apr 28; 94(16):637 **(Spa)**

ADMINISTRATION & DOSAGE

Stability of heroin hydrochloride in infusion devices and containers for intravenous administration. Kleinberg ML, et al. **Am J Hosp Pharm** 1990 Feb;47(2):377–81
Intrathecal diamorphine during laparotomy in a patient with advanced multiple sclerosis. Leigh J, et al. **Anaesthesia** 1990 Aug;45(8):640–2
Intrathecal diamorphine: a dose–response study [see comments] Jacobson L, et al. **Ann R Coll Surg Engl** 1989 Sep;71(5):289–92 Comment in: Ann R Coll Surg Engl 1990 Mar;72(2):147.
Comparison of oral preparations of heroin and methadone to stabilise opiate misusers as inpatients. Ghodse AH, et al. **BMJ** 1990 Mar 17;300(6726):719–20
Pharmaceutical heroin and 'chasing the dragon' [letter] Battersby M, et al. **Br J Addict** 1990 Jan;85(1):151
Postoperative hypoxaemia: comparison of extradural, i.m. and patient–controlled opioid analgesia. Wheatley RG, et al. **Br J Anaesth** 1990 Mar;64(3):267–75
The ventral pallidum plays a role in mediating cocaine and heroin self–administration in the rat. Hubner CB, et al. **Brain Res** 1990 Jan 29;508(1):20–9
Working with heroin sniffers: clinical issues in preventing drug injection. Casriel C, et al. **J Subst Abuse Treat** 1990; 7(1):1–10
Influence of housing conditions on the acquisition of intravenous heroin and cocaine self–administration in rats. Bozarth MA, et al. **Pharmacol Biochem Behav** 1989 Aug; 33(4):903–7
Heroin self–administration by rats: influence of dose and physical dependence. Dai S, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1009–15
[Lyell's syndrome induced by heroin contaminants (letter)] Llibre LM, et al. **Med Clin (Barc)** 1990 May 26;94(20):799 **(Spa)**

ADVERSE EFFECTS

Intrathecal diamorphine: a dose–response study [letter; comment] Godsiff SP. **Ann R Coll Surg Engl** 1990 Mar; 72(2):147 Comment on: Ann R Coll Surg Engl 1989 Sep;71(5):289–92.
Naltrexone and clonidine in heroin withdrawal treatment [letter; comment] Drummond DC, et al. **Br J Psychiatry** 1989 Apr;154:571–2 Comment on: Br J Psychiatry 1988 Sep;153:340–3.
Evaluation of clonidine suppression of opiate withdrawal reactions: a multidisciplinary approach. Cuthill JD, et al. **Can J Psychiatry** 1990 Jun;35(5):377–82
Opiate withdrawal presenting as posttraumatic stress disorder. Salloway S, et al. **Hosp Community Psychiatry** 1990 Jun;41(6):666–7
Candida spondylodiscitis. Chronic illness due to heroin analgesia in an HIV positive person [letter] Boix V, et al. **J Rheumatol** 1990 Apr;17(4):563–5
[Drug addiction and pregnancy. Principal obstetrical and pediatric complications] Ciraru–Vigneron N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989;18(5):637–48 (Eng. Abstr.) **(Fre)**
[Drug–induced myopathy—clofibrate, succinylcholine, heroin, L–dopa, steroid hormone] Shoji S. **Nippon Rinsho** 1990 Jul;48(7):1517–21 **(Jpn)**
[The newborn infant of the drug addicted mother. Clinical and therapeutic problems (published erratum appears in An Esp Pediatr 1989 Dec;31(6):608)] González–Hachero J, et al. **An Esp Pediatr** 1989 Sep;31(3):205–9 (Eng. Abstr.) **(Spa)**
[Comparative effectiveness of alpha–2 adrenergic agonists (clonidine–guanfacine) in the hospital detoxification of opiate addicts] Muga R, et al. **Med Clin (Barc)** 1990 Feb 10;94(5):169–72 (Eng. Abstr.) **(Spa)**

ANALYSIS

Voltammetric assay of heroin in illicit dosage forms. Barreira Rodríguez JR, et al. **Analyst** 1990 Feb;115(2):209–12
Poly(vinyl chloride) matrix membrane electrode for the selective determination of heroin (diamorphine) in illicit powders. Hassan SS, et al. **Analyst** 1990 May;115(5):623–5
Comments on the routine profiling of illicit heroin samples [comment] Neumann H. **Forensic Sci Int** 1990 Jan; 44(1):85–7 Comment on: Forensic Sci Int 1988 Nov;39(2):107–17.
Discussion of "Heroin, morphine, and hydromorphone determination in postmortem material by high performance liquid chromatography" [letter; comment] Tagliaro F, et al. **J Forensic Sci** 1990 May;35(3):520–3 Comment on: J Forensic Sci 1988 Sep;33(5):1146–55.

PHARMACOKINETICS

Time course of detection of 6-acetylmorphine in urine after heroin administration. Cone EJ, et al.
NIDA Res Monogr 1989;95:449

PHARMACOLOGY

Hormonal and metabolic responses to cholecystectomy: comparison of extradural somatostatin and diamorphine. Desborough JP, et al. **Br J Anaesth** 1989 Nov;63(5):508–15
Effects of D1 and D2 dopamine antagonists on heroin-trained drug discrimination. Corrigall WA, et al.
NIDA Res Monogr 1989;95:499
Bromocriptine self-administration and bromocriptine-reinstatement of cocaine-trained and heroin-trained lever pressing in rats. Wise RA, et al.
Psychopharmacology (Berl) 1990;100(3):355–60

POISONING

Chronic intoxication by heroin; histopathological effects on seminiferous tubules. Gomez A, et al. **Forensic Sci Int** 1989 Sep;43(1):97–101
Toxicological data after heroin overdose. Kintz P, et al.
Hum Toxicol 1989 Nov;8(6):487–9
[Non-infective neurologic complications associated to heroin use] Pascual Calvet J, et al. **Arch Neurobiol (Madr)** 1989; 52 Suppl 1:155–61 (43 ref.) (Eng. Abstr.) (Spa)

SUPPLY & DISTRIBUTION

Changing trends in drug use: the second follow-up of a local heroin using community. George M, et al. **Br J Addict** 1989 Dec;84(12):1461–6

THERAPEUTIC USE

Respiratory depression and spinal opioids [letter; comment] Ravalia A, et al. **Can J Anaesth** 1989 Nov;36(6):728–9 Comment on: Can J Anaesth 1989 Mar;36(2):165–85.
The availability of heroin [letter] Doran KE. **Med J Aust** 1989 Sep 18;151(6):358
Clinical analgesic assay of repeated and single doses of heroin and hydromorphone. Wallenstein SL, et al. **Pain** 1990 Apr; 41(1):5–13

TOXICITY

Heroin-induced myopathy in rat skeletal muscle. Peña J, et al. **Acta Neuropathol (Berl)** 1990;80(1):72–6
Genotoxicity of heroin and cannabinoids in humans. Piatti E, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:59–60

DIAGNOSIS

Effects of pattern matching, pattern discrimination, and experience in the development of diagnostic expertise. Papa FJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S21–2
A comparison of free-response and cued-response diagnosis scores in an evaluation of clinical competence utilizing standardized patients. Stillman PL, et al. **Acad Med** 1990 Sep;65(9 Suppl):S27–8
Teaching old dogs new tricks: using cognitive feedback to improve physicians' diagnostic judgments on simulated cases. Wigton RS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S5–6
Seeking and applying diagnostic information in a health care setting. Curley SP, et al. **Acta Psychol (Amst)** 1990 Apr; 73(3):211–23
Significant difference and discrimination [letter] Meyer A. **AJR Am J Roentgenol** 1990 Jul;155(1):193
Tibetan medicine Part IV: Pulse diagnosis in Tibetan medicine. Steiner RP. **Am J Chin Med** 1989;17(1–2):79–84
Telling the truth in the face of medical uncertainty and disagreement. Forman EN, et al.
Am J Pediatr Hematol Oncol 1989 Winter;11(4):463–6
Clinical chronobiology. Cagnoni M, et al.
Ann Ital Med Int 1986;1 Suppl 1:36–41 (10 ref.)
A three bone problem. Colquhoun JP.
Aust Fam Physician 1990 May;19(5):744–5
The rarity—an acceptable stimulant. Colquhoun JP.
Aust Fam Physician 1989 Sep;18(9):1158–9
Common problems: a safe diagnostic strategy. Murtagh J.
Aust Fam Physician 1990 May;19(5):733–4, 737, 740–2
Construction of clinical scoring systems [letter; comment] [see comments] Wyatt J. **BMJ** 1990 Feb 24;300(6723):538–9 Comment on: BMJ 1990 Jan 27;300(6719):223–6. Comment in: BMJ 1990 Apr 7;300(6729):940–1.
Diagnosis and treatment among relatives [letter] Horn AA.
Can Med Assoc J 1990 Jul 15;143(2):90–1
Determining optimal screening policies using decision trees and spreadsheets. Milsum JH. **Comput Biol Med** 1989; 19(4):231–43
Fuzzy model of inexact reasoning in medicine. Piš P, et al.
Comput Methods Programs Biomed 1989 Sep;30(1):1–8
An enhancement of inpatient diagnosis clusters: applications to residency training. Curtis P, et al. **Fam Med** 1989 Sep–Oct;21(5):345–9
The Edinburgh Declaration [editorial] Metcalfe DH.
Fam Pract 1989 Sep;6(3):165–7
The probability of a probability. Kassirer JP, et al.
Hosp Pract [Off] 1990 May 15;25(5):23–8
Diagnosis and the towers of Babel: a parable. Kassirer JP, et al. **Hosp Pract [Off]** 1989 Oct 15;24(10):27, 30, 35
Diagnosis and decisions by algorithms. Kassirer JP, et al.
Hosp Pract [Off] 1990 Mar 15;25(3):23–4, 27, 31
Science and art of pediatric diagnosis. Verma IC.
Indian J Pediatr 1989 Jan–Feb;56(1):75–80
Processing surgically removed lymph nodes. McCloskey DW, et al. **Indiana Med** 1990 Jul;83(7):488–91
A computer network-based system for local storage and nationwide processing of autopsy diagnoses. Matturri L, et al. **Int J Epidemiol** 1989 Sep;18(3):720–2
Patient problems encountered at a student health service. Fingar AR. **J Am Coll Health** 1989 Nov;38(3):142–4
Thoughts about diagnosis. Crawshaw R. **J Clin Epidemiol** 1990;43(7):723–5
The inadequacy of binary models for the clinical reality of three-zone diagnostic decisions. Feinstein AR.
J Clin Epidemiol 1990;43(1):109–13
Written case simulations: do they predict physicians' behavior? Jones TV, et al. **J Clin Epidemiol** 1990; 43(8):805–15 (93 ref.)
Office procedures [letter; comment] [see comments] Rodney WM. **J Fam Pract** 1990 Jan;30(1):16–7 Comment on: J Fam Pract 1989 Sep;29(3):249–54; discussion 254–6. Comment in: J Fam Pract 1990 Apr;30(4):394.
Snap diagnosis [letter] Taylor H. **J Fla Med Assoc** 1990 Jun; 77(6):588–9
Global assessment of patients—a bedside study. II. Inter-observer variation and frequency of clinical findings. Gjørup T, et al. **J Intern Med** 1990 Aug;228(2):147–50
Lectures on essentials of traditional Chinese medicine. VI. Methods of diagnosis. **J Tradit Chin Med** 1982 Dec; 2(4):321–8
Clinical inquiry and scientific inquiry. Norman GR, et al.
Med Educ 1990 Jul;24(4):396–9
Case 38–1989: diagnostic overkill? [letter] Hoffman JR.
N Engl J Med 1990 Aug 23;323(8):551
The perils of telephone diagnosis. **Ohio Med** 1990 Mar; 86(3):230–1
A cautionary tale. Coulehan JL. **Pa Med** 1990 Apr;93(4):52–4
Diagnosis as a skill: a clinical perspective. Parrino TA, et al. **Perspect Biol Med** 1989 Autumn;33(1):18–44 (160 ref.)
Correspondence analysis as a screening method for indicants for clinical diagnosis. Crichton NJ, et al. **Stat Med** 1989 Nov;8(11):1351–62
Constructing a cut-off point for a quantitative diagnostic test. Schäfer H. **Stat Med** 1989 Nov;8(11):1381–91
Clinical interpretation: the hermeneutics of medicine [see comments] Leder D. **Theor Med** 1990 Mar;11(1):9–24 Comment in: Theor Med 1990 Mar;11(1):25–8.
Toward a better practice of medicine [editorial] Gold KI.
Wis Med J 1989 Oct;88(10):8, 10
[Diagnosis in low prevalence of disease. Significance of specificity rather than sensitivity in sequencing of diagnostic tests] Erichsen GG. **Nord Med** 1990;105(1):30–2 (Eng. Abstr.) (Dan)
[Clinicians as detectives (editorial)] Riis P. **Nord Med** 1990; 105(5):138 (Dan)
[ROC-curve analysis. A statistical method for the evaluation of diagnostic tests] Albeck MJ, et al. **Ugeskr Laeger** 1990 Jun 4;152(23):1650–3 (26 ref.) (Eng. Abstr.) (Dan)
[Diagnosis in the Landspatientregister in 1987] Jørgensen J, et al. **Ugeskr Laeger** 1989 Sep 18;151(38):2440–1 (Dan)
[Disease patterns in patients hospitalized in 1987] Mosbech J, et al. **Ugeskr Laeger** 1989 Nov 13;151(46):3081–2 (Dan)
[Optimalization of diagnostic choices] de Maertelaer V.
Rev Med Brux 1989 Nov;10(9):368–70 (Eng. Abstr.) (Fre)
[Diagnostic molecular biology] Costa J.
Rev Med Suisse Romande 1990 Jul;110(7):593–5 (Fre)
[Follow-up of unclear disease presentations in internal medicine] Schmeck-Lindenau HJ, et al.
Dtsch Med Wochenschr 1989 Sep 22;114(38):1431–5 (Eng. Abstr.) (Ger)
[Intuition at the bedside] Hartmann F. **Med Klin** 1990 Jul 15;85(7):448–53 (Ger)
[Medical treatment as a concrete philosophy] Leiss O.
Med Klin 1990 Jan 15;85(1):44–8 (54 ref.) (Ger)
[From the reason for consultation to the result of consultation in (pediatric) surgery] Kees A, et al.
Wien Klin Wochenschr 1989 Nov 24;101(22):765–7 (Eng. Abstr.) (Ger)
[Problems of agreement of clinical and autopsy diagnoses] Vollmar F. **Zentralbl Allg Pathol** 1989;135(7):699–704 (Eng. Abstr.) (Ger)
[Problems of agreement between clinical and autopsy diagnoses. Reply to the comments of Schneider and coworkers (letter)] Vollmar F. **Zentralbl Allg Pathol** 1990; 136(4):389–90 (Ger)
[Significance of the comparison between clinical and pathological diagnosis in health care quality control] Sebök J, et al. **Morphol Igazsagugyi Orv Sz** 1990 Apr;30(2):96–105 (Eng. Abstr.) (Hun)
[The physician between the patient and the medical equipment] Aloisi M. **Recenti Prog Med** 1990 Mar; 81(3):166–70 (0 ref.) (Ita)
[Clinical laboratory use and medical decision making] Inoue Y, et al. **Rinsho Byori** 1990 Jan;Spec No 83:27–38 (Jpn)
[Methodologic inconsistency in anamnesis education at medical schools] Zago MA. **AMB Rev Assoc Med Bras** 1989 Mar–Apr;35(2):79–80 (Eng. Abstr.) (Por)
[Diagnosis, treatment and quality of life] Pomerantsev VP.
Klin Med (Mosk) 1989 Sep;67(9):3–8 (Rus)
[Methodology of diagnosis] Postovit VA.
Klin Med (Mosk) 1989 Oct;67(10):132–5 (Rus)
[A comparative test of Soviet and American diagnostic criteria for osteoarthrosis (gonarthrosis)] Alekseeva LI, et al. **Revmatologiia (Mosk)** 1990 Jan–Mar;(1):28–32 (Eng. Abstr.) (Rus)
[Methods of evaluating the effectiveness of diagnostic procedures] Strnad L, et al.
Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove 1989;32(1):9–29 (Eng. Abstr.) (Rus)
[A method for making up instructional tests on situational tasks of differential diagnosis] Shushliapin OI, et al.
Ter Arkh 1990;62(1):130–4 (Rus)
[The utilization of the bed resources and the management of the therapeutic-diagnostic process in the hospital] Chernous'ko VV. **Vrach Delo** 1989 Nov;(11):122–4 (Rus)
[Early detection of diseases] Alvarez-Dardet C, et al.
Med Clin (Barc) 1989 Sep 9;93(6):221–5 (14 ref.) (Spa)
[Diagnostic effectiveness of resident physicians: lessons to be learned (letter)] Trilla A, et al. **Med Clin (Barc)** 1989 Sep 16;93(7):277 (Spa)

ECONOMICS

Focus of medical practice changing from correct diagnosis to low costs [editorial] Strasser AL. **Occup Health Saf** 1990 Apr;59(4):34, 94

HISTORY

Diagnosis by diagram. The matulae disc from Johannes de Ketham's Fasciculus Medicinae, 1495. Jenkins GP.
J Lab Clin Med 1989 Oct;114(4):439–40

METHODS

Comparing information-gathering strategies of medical students and physicians in diagnosing simulated medical cases. Palchik NS, et al. **Acad Med** 1990 Feb;65(2):107–13
Is earlier diagnosis really better? The misleading effects of lead time and length biases. Black WC, et al.
AJR Am J Roentgenol 1990 Sep;155(3):625–30
Teaching physical diagnosis in the nursing home. Grady MJ, et al. **Am J Med** 1990 May;88(5):519–21
Diagnosis by the bit: a method for evaluating the diagnostic process. Johnson HA. **Ann Clin Lab Sci** 1989 Sep–Oct; 19(5):323–31
End-tidal CO2 detection [letter] Graff L.
Ann Emerg Med 1990 Feb;19(2):219
[Day care management] Jährig K, et al. **Kinderarztl Prax** 1989 Dec;57(12):583–8 (Eng. Abstr.) (Ger)
[Evaluating diagnostic measures] Richter K.
Klin Wochenschr 1990 Mar 16;68(6):297–8 (Ger)
[Polymerase chain reaction in clinical diagnosis] Perl A, et al. **Orv Hetil** 1990 Apr 1;131(13):671–5 (Eng. Abstr.) (Hun)
[Anamnesis: expert systems and the rediscovery of Cinderella] Pennetti V, et al. **Medicina (Firenze)** 1989 Jul–Sep;9(3):309–12 (Eng. Abstr.) (Ita)
[Use of the bioelectric properties of the skin for diagnosing organ diseases] Szopiński J. **Wiad Lek** 1989 May 15; 42(10):697–702 (31 ref.) (Pol)
[Anatomo-clinical diagnosis correlation. Retrospective assessment of the clinical diagnosis in necropsies] de Almeida MC, et al. **Rev Saude Publica** 1989 Aug; 23(4):285–91 (Eng. Abstr.) (Por)
[A return to chaos] Anisimov IuS. **Arkh Patol** 1990;52(2):75–6 (Rus)
[Arguable questions in the formulation of an anatomicopathological diagnosis] Rykov VA.
Arkh Patol 1990;52(2):74–5 (Rus)
[The method of teaching therapy—the problem approach to diagnosis] Maramaa SIa. **Ter Arkh** 1989;61(9):128–30 (Eng. Abstr.) (Rus)

STANDARDS

Cost-effective validation of screening tests [letter] Joseph KS. **Int J Epidemiol** 1989 Dec;18(4):996–8
Evaluation of a new method for verifying truth of diagnosis in clinical research. Ker M, et al. **Invest Radiol** 1990 May; 25(5):568–73
Our stubborn quest for diagnostic certainty [letter; comment] **N Engl J Med** 1989 Nov 2;321(18):1272–3 Comment on: N Engl J Med 1989 Jun 1;320(22):1489–91.
Hospital discharge diagnoses: how accurate are they and their international classification of diseases (ICD) codes? Smith

MW. N Z Med J 1989 Sep 27;102(876):507–8
Latent class analysis of diagnostic agreement. Uebersax JS, et al. Stat Med 1990 May;9(5):559–72
[The obstinacy of a profession] Vandenbroucke JP. Ned Tijdschr Geneeskd 1989 Dec 23;133(51):2540–2 (Dut)
[An analysis of the quality of the clinical diagnosis based on autopsy data] Kazantseva IA, et al. Arkh Patol 1989; 51(10):50–5 (Eng. Abstr.) (Rus)

TRENDS

[Diagnosis and progress] Georgiev G. Vutr Boles 1989; 28(6):17–20 (Bul)
[The problems of practical diagnosis today] Gogin EE. Ter Arkh 1990;62(4):3–7 (Rus)

DIAGNOSIS, COMPUTER ASSISTED

A computer analysis of typical CCG patterns in 1,021 neuro–otological patients. Claussen CF, et al. Acta Otolaryngol Suppl (Stockh) 1989;468:235–8
Diagnostics of malformation syndromes using an available computer program. Boda D, et al. Acta Paediatr Hung 1988–89;29(3–4):353–7
First model of whole body computerized stereotactic device. Nádvorník P, et al. Acta Univ Palacki Olomuc Fac Med 1989;121:149–52
Stereotactic imaging, surgical planning and computer–assisted resection of intracranial lesions: methods and results. Kelly PJ. Adv Tech Stand Neurosurg 1990; 17:77–118 (43 ref.)
Superiority of visual versus computerized echocardiographic estimation of radionuclide left ventricular ejection fraction. Amico AF, et al. Am Heart J 1989 Dec;118(6):1259–65
Comparison of quantitative coronary angiography to visual estimates of lesion severity pre and post PTCA. Goldberg RK, et al. Am Heart J 1990 Jan;119(1):178–84
Cardiac phase–related variability of border detection or densitometric quantitation of postangioplasty lumens. Katritsis D, et al. Am Heart J 1990 Sep;120(3):537–43
The portable programmable microprocessor–driven real–time 12–lead electrocardiographic monitor: a preliminary report of a new device for the noninvasive detection of successful reperfusion or silent coronary reocclusion. Krucoff MW, et al. Am J Cardiol 1990 Jan 15;65(3):143–8
And the children shall teach us ... [letter] Asnes RS. Am J Dis Child 1990 Aug;144(8):849
Ultrasonographic fetal weight estimation by an integrated computer–assisted system: can each laboratory improve its accuracy? Thompson HO, et al. Am J Obstet Gynecol 1990 Sep;163(3):986–95
Computer–based psychological testing [letter; comment] Levenson RL Jr. Am J Orthopsychiatry 1989 Oct; 59(4):619–20 Comment on: Am J Orthopsychiatry 1989 Apr;59(2):257–63.
Computer–assisted long–term measurements of urinary output and other biological data. Reinhardt HW, et al. Am J Physiol 1990 Jan;258(1 Pt 2):R274–80
An oximeter for measuring hemoglobin concentration and oxygen content. Shepherd AP, et al. Am J Physiol 1989 Nov;257(5 Pt 2):H1705–11
Construction of the diagnostic encyclopedia workstation. Computerizing pathology for the pathologist. Jansen W, et al. Anal Quant Cytol Histol 1989 Dec;11(6):447–50
Twelve years' experience of computer–aided diagnosis in a district general hospital. McAdam WA, et al. Ann R Coll Surg Engl 1990 Mar;72(2):140–6
Use of artificial intelligence for the preoperative diagnosis of pulmonary lesions. Edwards FH, et al. Ann Thorac Surg 1989 Oct;48(4):556–9
Interpretation and misinterpretation of semen parameters. Shanis BS, et al. Arch Androl 1989;23(3):213–27
Computerized topographic brain mapping during carotid endarterectomy. Elmore JR, et al. Arch Surg 1990 Jun; 125(6):734–7; discussion 738
Artificial intelligence in the prediction of operative findings in low back surgery. Mathew B, et al. Br J Neurosurg 1989;3(2):161–70
Computer–directed stereotactic biopsy of intrinsic brain stem lesions. Thomas DG, et al. Br J Neurosurg 1988;2(2):235–40
A computerised diagnostic index for medical and neuro–ophthalmology. Woon WH, et al. Br J Ophthalmol 1990 Apr;74(4):212–4
The delineation of schizophrenia from other psychiatric illnesses. Kazanetz EP. Br J Psychiatry 1989 Aug; 155:160–5
Aids to the diagnosis of acute appendicitis [letter; comment] de Dombal FT, et al. Br J Surg 1989 Dec;76(12):1353 Comment on: Br J Surg 1989 Aug;76(8):774–9.
Computed EEG topography (CET) and childhood epilepsy: two years experience. De Negri M, et al. Brain Dev 1990; 12(2):253–6
Surviving a crash landing: a software review [letter] Essak Z. Can Med Assoc J 1990 Sep 1;143(5):365, 368
Computer search for electrocardiographic lead directions to optimize diagnostic differentiation. A novel concept in electrocardiographic lead design. Batchlor CD, et al. Circulation 1967 Aug;36(2):320–30
Computerized tabulation of cine coronary angiograms. Its implication for results of randomized trials. Favaloro RG. Circulation 1990 Jun;81(6):1992–2003 (74 ref.)
Automated quantitation of indexes of coronary lesion complexity. Comparison between patients with stable and unstable angina. Kalbfleisch SJ, et al. Circulation 1990 Aug; 82(2):439–47
Long QT interval syndrome. A new look at an old electrocardiographic measurement—the power of the computer. Laks MM. Circulation 1990 Oct;82(4):1539–41
Assessment of the functional significance of coronary stenoses. Is digital angiography the answer? [comment] Nissen SE, et al. Circulation 1990 Apr;81(4):1431–5 Comment on: Circulation 1990 Apr;81(4):1331–40.
Effectiveness of computer–assisted perimetry in the diagnosis of pituitary adenomas. Cannavó S, et al. Clin Endocrinol (Oxf) 1989 Dec;31(6):673–8
Screening alcohol & drug use in a general practice unit: comparison of computerised and traditional methods. Bungey JB, et al. Community Health Stud 1989;13(4):471–83
Real time analysis of Valsalva's maneuver. Bingger W, et al. Comput Biol Med 1989;19(5):319–29
A computerized respiratory sinus arrhythmia program for the non–invasive assessment of parasympathetic activity. De Meersman R, et al. Comput Biol Med 1990;20(2):75–94
A new strategy for clinical decision making—II. The circumscription of non–monotonicity and differential diagnosis for thyroid diseases. Mansour H. Comput Biol Med 1989;19(5):337–42
Interpreting chromosomal abnormalities using Prolog. Cooper G, et al. Comput Biomed Res 1990 Apr;23(2):153–64
Finalists' papers from the 1989 SCAMC student paper competition at the Symposium on Computer Applications in Medical Care (SCAMC). Washington, DC, USA. Comput Methods Programs Biomed 1990 May;32(1):1–102
A medical reasoning program that improves with experience. Koton P. Comput Methods Programs Biomed 1989 Oct–Nov;30(2–3):177–84
Knowledge–based understanding of radiology text. Ranum DL. Comput Methods Programs Biomed 1989 Oct–Nov; 30(2–3):209–15
Computer–assisted diagnosis of gastrointestinal helminths of domestic and experimental animals. Theodoropoulos G. Comput Methods Programs Biomed 1989 Dec;30(4):261–4
Using schemas for diagnosis. Turner RM. Comput Methods Programs Biomed 1989 Oct–Nov; 30(2–3):199–207
QUAWDS: a composite diagnostic system for gait analysis. Weintraub MA, et al. Comput Methods Programs Biomed 1990 May;32(1):91–106
CANDI. Development of the automated nursing assessment tool. Roth K, et al. Comput Nurs 1989 Sep–Oct;7(5):222–7
Computer–aided diagnosis and decision–making in acute abdominal pain. Fenyö G. Dig Dis 1990;8(3):125–37 (55 ref.)
Visual field testing with reduced sets of test points. A computerized analysis. Krakau CE. Doc Ophthalmol 1989 Sep;73(1):71–80
Evaluation of a computer–automated program for clinical assessment of the auditory brain stem response. Pool KD, et al. Ear Hear 1989 Oct;10(5):304–10
Computerized interpretation of electromyographic data. Jamieson PW. Electroencephalogr Clin Neurophysiol 1990 May;75(5):392–400
Clinical application of computerized dynamic posturography. Cyr DG, et al. Eng Med Biol Technol Appl 1988 Sep;:36–47
A computer–derived protocol to aid in selecting medical versus surgical treatment of horses with abdominal pain. Ducharme NG, et al. Equine Vet J 1989 Nov;21(6):447–50
Quantification and classification of echographic findings in the thyroid gland by computerized B–mode texture analysis. Hirning T, et al. Eur J Radiol 1989 Nov;9(4):244–7
Computer–assisted curriculum for medical students on early diagnosis of substance abuse. Brown RL, et al. Fam Med 1990 Jul–Aug;22(4):288–92
Validity of the Bioself 110 fertility indicator. Labrecque M, et al. Fertil Steril 1989 Oct;52(4):604–8
Computer–assisted semen analysis: results vary across technicians who prepare videotapes. Levine RJ, et al. Fertil Steril 1989 Oct;52(4):673–7
Characterization of a computerized semen analysis system. Pedigo NG, et al. Fertil Steril 1989 Oct;52(4):659–66
Integrated expert systems and videodisc in surgical pathology: an overview. Nathwani BN, et al. Hum Pathol 1990 Jan;21(1):11–27 (76 ref.)
Evaluation of the Hamilton–Thorn 2030 motility analyser for routine semen analysis in an infertility clinic. Neuwinger J, et al. Int J Androl 1990 Apr;13(2):100–9
The recent development and evaluation of a medical expert system (ABVAB). Felix Wong WS, et al. Int J Biomed Comput 1990 Apr;25(2–3):223–9
Computer aided interpretation of acid–base disorders. Pincé H, et al. Int J Biomed Comput 1990 Apr;25(2–3):177–92
An algorithm for approximating conditional probabilities. Todd BS. Int J Biomed Comput 1990 Jul;26(1–2):29–38
The discrimination of similarly colored objects in computer images of the ocular fundus. Goldbaum MH, et al. Invest Ophthalmol Vis Sci 1990 Apr;31(4):617–23
A pyroelectric thermal imaging system for use in medical diagnosis. Black CM, et al. J Biomed Eng 1990 Jul; 12(4):281–6
Expert systems and the pancreatic cancer problem: decision support in the pre–operative diagnosis. Maceratini R, et al. J Biomed Eng 1989 Nov;11(6):487–510 (219 ref.)
Computer assisted diagnosis of fine needle aspirate of the breast. Heathfield HA, et al. J Clin Pathol 1990 Feb; 43(2):168–70
Proceedings of the Engineering Foundation Conference: Computerized interpretation of the electrocardiogram XIV. April 23–28, 1989. J Electrocardiol 1989;22 Suppl:1–262
Computer diagnosis of skin disease [see comments] Potter B, et al. J Fam Pract 1990 Feb;30(2):201–10 Comment in: J Fam Pract 1990 Feb;30(2):137–40.
The computer and clinical decision–support systems in primary care [comment] Taylor TR. J Fam Pract 1990 Feb; 30(2):137–40 Comment on: J Fam Pract 1990 Feb;30(2):201–10.
EL BUSCA and the value of signals in the diagnosis of dysmorphic syndromes: good and bad handles in computer assisted differential diagnosis. Salgado LJ, et al. J Med Genet 1990 Jul;27(7):446–50
A computerized kinematic diagnostic system. Eckhouse RH Jr, et al. J Med Syst 1989 Oct;13(5):261–74
Medical education and the role of computers—as seen through the eyes of a medical student. West SA. J Med Syst 1989 Oct;13(5):237–41
Three–dimensional autoradiographic localization of quench–corrected glycine receptor specific activity in the mouse brain using 3H–strychnine as the ligand. White WF, et al. J Neurosci 1990 Mar;10(3):795–813
Assessing validity of infant monitor alarms with event recording. Weese–Mayer DE, et al. J Pediatr 1989 Nov; 115(5 Pt 1):702–8
Assessment: what role the assessor? Carson RC. J Pers Assess 1990 Summer;54(3–4):435–45
The Barnum effect in a computerized Rorschach interpretation system. Prince RJ, et al. J Psychol 1990 Mar; 124(2):217–22
Computerized EEG. Forming a mental image. Hundley J, et al. J Psychosoc Nurs Ment Health Serv 1990 Feb; 28(2):19–23
Completely computer–focused ultrasound imaging. First clinical imaging results. Koivukangas J, et al. J Ultrasound Med 1989 Dec;8(12):675–83
MEDITEL [letter] Waxman HS, et al. JAMA 1989 Dec 15; 262(23):3270–1
Computer–assisted diagnosis in acute abdominal pain [letter; comment] Lancet 1989 Nov 4;2(8671):1102–3 Comment on: Lancet 1989 Oct 14;2(8668):905–8.
Computer–assisted diagnosis [editorial] Lancet 1989 Dec 9; 2(8676):1371
Comparison of CAGE questionnaire and computer–assisted laboratory profiles in screening for covert alcoholism. Beresford TP, et al. Lancet 1990 Aug 25;336(8713):482–5
Computer–assisted diagnosis in acute abdominal pain [letter] Sutton GC. Lancet 1989 Dec 2;2(8675):1340–1
A neural network as an approach to clinical diagnosis. Mulsant BH. MD Comput 1990 Jan–Feb;7(1):25–36
Nasal airflow measurement using a compensated thermistor anemometer. Part 2. Computer signal processing and quantitative analysis. Besar SS, et al. Med Biol Eng Comput 1990 Mar;28(2):127–32
Computer–assisted radiology—requirements and solutions for digital diagnostic imaging. Greinacher CF, et al. Med Inf (Lond) 1990 Jan–Mar;15(1):21–9
Building two medical databanks. Pirtkien R, et al. Med Inf (Lond) 1990 Jan–Mar;15(1):53–66
Computer assisted screening for alcohol–related problems in a general hospital setting [letter] Hecker R, et al. Med J Aust 1990 May 21;152(10):556
Image feature analysis and computer–aided diagnosis in digital radiography: effect of digital parameters on the accuracy of computerized analysis of interstitial disease in digital chest radiographs. Katsuragawa S, et al. Med Phys 1990 Jan–Feb;17(1):72–8
Development of a microprocessor–based adaptive technique for blood pressure measurements. Kalaitzakis KC, et al. Med Prog Technol 1988–89;14(2):63–72
Computer–assisted adult medical diagnosis: subject review and evaluation of a new microcomputer–based system. Waxman HS, et al. Medicine (Baltimore) 1990 May; 69(3):125–36 (62 ref.)
Effect of a computer–assisted general medicine diagnostic consultation service on housestaff diagnostic strategy. Bankowitz RA, et al. Methods Inf Med 1989 Nov; 28(4):352–6
Computer–based exercises in anemia diagnosis (PlanAlyzer). Beck JR, et al. Methods Inf Med 1989 Nov;28(4):364–9
DYNASCENE: an approach to computer–based intelligent cardiovascular monitoring using sequential clinical "scenes". Cohn AI, et al. Methods Inf Med 1990 Mar; 29(2):122–31
The Delphi method to validate diagnostic knowledge in computerized ECG interpretation. Kors JA, et al. Methods Inf Med 1990 Jan;29(1):44–50
Proposed methodology for knowledge acquisition: a study on congenital heart disease diagnosis. Leão BF, et al. Methods Inf Med 1990 Jan;29(1):30–40
Expert systems for the prediction of ovulation: comparison of an expert system shell (Expertech Xi Plus) with a program written in a traditional language (BASIC). Schreiner A, et al. Methods Inf Med 1990 Mar;29(2):140–5
Iliad: moving medical decision–making into new frontiers. Warner HR Jr. Methods Inf Med 1989 Nov;28(4):370–2
Development of a computer–aided reference system for differential diagnostics support. Wieding JU, et al. Methods Inf Med 1990 Mar;29(2):132–9
Computer analysis of EEG activity in dementia of the

Alzheimer's type and Huntington's disease. Streletz LJ, et al. **Neurobiol Aging** 1990 Jan–Feb;11(1):15–20

Computerized EEG frequency analysis: sensitivity and specificity in patients with focal lesions [see comments] Oken BS, et al. **Neurology** 1989 Oct;39(10):1281–7 Comment in: Neurology 1990 Jun;40(6):1008.

Generator mechanisms of epileptic potentials analyzed by dipole tracing method. Homma S, et al. **Neurosci Lett** 1990 May 31;113(2):181–6

COMRADD: computerized radiographic differential diagnosis. Hubar JS, et al.
Oral Surg Oral Med Oral Pathol 1990 Feb;69(2):263–5

Expert systems as a diagnostic aid in otoneurology. Mira E, et al. **ORL J Otorhinolaryngol Relat Spec** 1990; 52(2):96–103

Real–time, automated, interactive cardiac electrophysiology testing. Buckles DS, et al. **PACE** 1990 Jan;13(1):45–51

A computer based handbook and atlas of pathology. Jansen W, et al. **Pathol Res Pract** 1989 Nov;185(5):652–6

Hypertension in the elderly. Haigh A. **Practitioner** 1989 May 22;233(1469):735–8

Computer detection and analysis of periodic movements in sleep. Kayed K, et al. **Sleep** 1990 Jun;13(3):253–61

The MICROSTROKE expert system for stroke type diagnosis. Spitzer K, et al. **Stroke** 1989 Oct;20(10):1353–6

[The structure and function of an automated system for predicting neonatal body weight (the Sinodeta P/1)] Dimitrov I, et al. **Akush Ginekol (Sofiia)** 1989;28(5):38–42 (Eng. Abstr.) (Bul)

[Evaluation of clinical–pathological conferences using a program for computer–assisted diagnosis; analysis of 100 case reports] Kerkhof PL, et al. **Ned Tijdschr Geneeskd** 1990 Aug 11;134(32):1552–6 (Eng. Abstr.) (Dut)

[Comparative study of various computer–assisted vestibular function tests] Boniver R, et al.
Acta Otorhinolaryngol Belg 1989;43(1):83–9 (Fre)

[Microcomputers and ENG: current status] Boniver R.
Acta Otorhinolaryngol Belg 1989;43(6):603–7 (Fre)

[LENTCA: nosographic evaluation software for alimentary disorders] Simon YF, et al. **Ann Med Psychol (Paris)** 1989 Sep;147(7):756–60; discussion 760–1 (Fre)

[Computer–assisted processing of screened cervico–vaginal smear reports. The A.D.I.C.A.P. Bull–Sopra system] Sabatier P, et al. **Ann Pathol** 1990;10(2):135–8 (Fre)

[The value of microcomputers in the diagnosis of craniofacial dysmorphism with multiple congenital abnormalities in children (letter)] Bijaoui G, et al. **Arch Fr Pediatr** 1990 Jun–Jul;47(6):468 (Fre)

[Is computer–assisted campimetry with cathode screen adapted glaucoma diagnosis?] Rouland JF, et al.
Bull Soc Belge Ophtalmol 1988;227:9–14 (Fre)

[Rhinoplasty and computerized cephalometry. Subcutaneous tissue and bony landmarks] Thomas EH, et al.
Rev Stomatol Chir Maxillofac 1989;90(6):391–8 (Eng. Abstr.) (Fre)

[Computed perimetry for the follow–up of optic neuropathy in pseudotumor cerebri] Gruber H, et al.
Klin Monatsbl Augenheilkd 1990 Apr;196(4):214–5 (Eng. Abstr.) (Ger)

[Problems of the agreement of clinical and postmortem diagnoses. Comment on the article by F. Vollmar (Zentralbl. allg. Pathol. pathol. Anat. 1989; 135:699–704) (letter)] Schneider E, et al. **Zentralbl Allg Pathol** 1990; 136(3):290–2 (Ger)

[Significance of computer analysis of dynamic brain scintigraphy in patients with cerebrovascular disorders] Valikovics A, et al. **Orv Hetil** 1990 Feb 11;131(6):297–301 (Eng. Abstr.) (Hun)

[Computer–aided diagnosis—from the era of application of statistical theories to the neuro–computer age] Furukawa T. **Rinsho Byori** 1990 Jan;Spec No 83:11–8 (Jpn)

[Graphical methods to analyze overall pathophysiological data structure from laboratory database: selective approach to search uncommon or borderline abnormalities] Ichihara K, et al. **Rinsho Byori** 1990 Jan;Spec No 83:39–53 (Jpn)

[Graphic presentation of data and automatic analysis] Matsuda N, et al. **Rinsho Byori** 1988 May;Spec No 77:31–42 (Jpn)

[Recent progress in computer assisted laboratory diagnosis for peripheral hemogram] Matsuda N. **Rinsho Byori** 1990 Apr;Spec No 84:112–23 (Jpn)

[Graphic display of laboratory informations on pathophysiology] Niwa M, et al. **Rinsho Byori** 1990 Jan; Spec No 83:92–111 (Jpn)

[Current information processing systems in our AMHTS] Shimizu H, et al. **Rinsho Byori** 1990 Apr;Spec No 84:70–80 (Jpn)

[Medical application of artificial intelligence—towards the future development] Tanaka H. **Rinsho Byori** 1990 Jan;Spec No 83:54–73 (Jpn)

[The volume of vision in computerized static perimetry in the diagnosis and observation o f glaucoma] Dudzinski A, et al. **Klin Oczna** 1989 Jun;91(6):152–3 (Eng. Abstr.) (Pol)

[An experimental model of data base organization in glaucoma with computer processing (a preliminary note)] Bilrar A, et al. **Rev Chir [Oftalmol]** 1989 Apr–Jun; 33(2):123–32 (Eng. Abstr.) (Rum)

[Use of computers in the roentgenological diagnosis of gynecologic diseases] Mikhallenko ET, et al.
Akush Ginekol (Mosk) 1989 Oct;(10):57–8 (Eng. Abstr.) (Rus)

[Computer assisted evaluation of the status of professionally important functions of an operator] Navakatikian AO, et al. **Gig Sanit** 1990 May;(5):24–7 (Rus)

[Automated system of quantitative assessment of risk of disorders of the functional state of the liver in prophylactic examinations] Gichev IuP, et al. **Gig Tr Prof Zabol** 1990; (6):38–41 (Eng. Abstr.) (Rus)

[Computer visualization of three–dimensional vectorcardiographic loops in the diagnosis of the enlargement of cardiac segments] Sobolev AV, et al.
Kardiologiia 1990 Jan;30(1):55–8 (Eng. Abstr.) (Rus)

[Assessment of the degree of severity in acute pneumonia and diagnostic accuracy] Khadartsev AA, et al.
Med Tekh 1989 Nov–Dec;(6):18–21 (Eng. Abstr.) (Rus)

[Experimental automated system for studying spectral characteristics of tissues in reflected light] Solomonov VI, et al. **Med Tekh** 1990 May–Jun;(3):20–1 (Eng. Abstr.) (Rus)

[Emergency diagnosis of DIC syndrome complicated by hemorrhage using an expert computer program] Tsushko VS, et al. **Sov Med** 1990;(6):89–92 (Rus)

[Increasing effectiveness of the use of laboratory data in the therapeutic–diagnostic process through automatization] Makarovskii VV, et al. **Sov Zdravookhr** 1989;(8):56–60 (Eng. Abstr.) (Rus)

[Use of computers for improving the activities of health facilities at industrial plants] Shatalov VI, et al.
Sov Zdravookhr 1990;(2):59–61 (Eng. Abstr.) (Rus)

[Formalization of the process of differential diagnosis of nevi and initial choroid melanomas with the aid of a diagnostic table] Brovkina AF, et al. **Vestn Oftalmol** 1990 May–Jun; 106(3):27–9 (Eng. Abstr.) (Rus)

[Agreement analysis of the results of examinations performed by a physician and automated results in the preventive care system] Scheidová L, et al. **Vnitr Lek** 1989 Sep;35(9):833–7 (Eng. Abstr.) (Slo)

ECONOMICS

Determination of near–optimum use of hospital diagnostic resources using the "GENES" genetic algorithm shell. Bickel AS, et al. **Comput Biol Med** 1990;20(1):1–13

INSTRUMENTATION

Assessment of suicide risk by computer–delivered self–rating questionnaire: preliminary findings. Levine S, et al.
Acta Psychiatr Scand 1989 Sep;80(3):216–20

PROQSY: a computerised technique for psychiatric case identification in general practice. Wilkinson G, et al.
Br J Psychiatry 1989 Mar;154:378–82

Development of a computerized laboratory alerting system. Bradshaw KE, et al. **Comput Biomed Res** 1989 Dec; 22(6):575–87

On the way to expert systems. Comparing DSM–III computer diagnoses with CATEGO (ICD) diagnoses in depressive and schizophrenic patients. Maurer K, et al.
Eur Arch Psychiatry Neurol Sci 1989;239(2):127–32

Automated perimeter for binocular suppression. Mest RA, et al. **IEEE Trans Biomed Eng** 1990 Jul;37(7):731–4

A computerized approach to cognitive behavioural assessment: an introduction to CBA–2.0 primary scales. Bertolotti G, et al. **J Behav Ther Exp Psychiatry** 1990 Mar; 21(1):21–7

A dual–sensor diagnostic pacemaker for ambulatory cardiac monitoring. Shaw DB, et al. **J Biomed Eng** 1990 Jul; 12(4):351–7

Automation and computerization of chromogenic LAL assay method for bacterial endotoxin using 96–well microtiter plate. Schadewald LK, et al. **J Parenter Sci Technol** 1990 Mar–Apr;44(2):50–3

Content analysis: a comparison of manual and computerized systems. Rosenberg SD, et al. **J Pers Assess** 1990 Spring; 54(1–2):298–310

Prospective application of an expert system for the medical history of joint pain. Schewe S, et al. **Klin Wochenschr** 1990 May 4;68(9):466–71

An expert system for synoptic interpretation of lung function tests. Heise D, et al. **Lung** 1990;168 Suppl:1193–200

Medical expert systems: design and applications in pulmonary medicine. Klar R, et al. **Lung** 1990;168 Suppl:1201–9 (16 ref.)

Architecture and design of a computerised stereogram generator for vision test. Obaidat MS, et al.
Med Biol Eng Comput 1990 Mar;28(2):166–70

Multidimensional assessment of the elderly via a microcomputer: the SENOTS program and battery. Stones MJ, et al. **Psychol Aging** 1989 Mar;4(1):113–8

[The structure and function of an automated system for predicting neonatal body weight (the Sinodeta P/1)] Dimitrov I, et al. **Akush Ginekol (Sofiia)** 1989;28(5):38–42 (Eng. Abstr.) (Bul)

[A diagnostic expert system] Möller DP.
Biomed Tech (Berlin) 1990 Apr;35(4):62–8 (10 ref.) (Eng. Abstr.) (Ger)

[Differential diagnosis of ophthalmologic syndromes using a computer program] Daxecker F, et al.
Klin Monatsbl Augenheilkd 1989 Oct;195(4):259–60 (Eng. Abstr.) (Ger)

[A computerized processing unit for ambulatory diagnosis of sleep apnea and nocturnal hypoxemia] Hamm M, et al.
Pneumologie 1990 Feb;44 Suppl 1:627–8 (Eng. Abstr.) (Ger)

[Clinical use of an expert system for interpreting lung function tests—relation of results to the respective examiner] Heise D, et al. **Pneumologie** 1990 Feb;44 Suppl 1:633–4 (Eng. Abstr.) (Ger)

[Viewpoints on preparations for integrating data processing systems in routine microbiology diagnosis] Lorenz H, et al. **Z Gesamte Hyg** 1990 Apr;36(4):199–201 (Eng. Abstr.) (Ger)

[A device based on the use of single–crystal microcomputers for auricular diagnosis and therapy] Ishchenko AN, et al.
Med Tekh 1990 Mar–Apr;(2):25–7 (Eng. Abstr.) (Rus)

[Microprocessor control devices in the apparatus for psycho–physiological studies] Matveev EV, et al. **Med Tekh** 1990 Mar–Apr;(2):43–5 (Rus)

[A complex unit EKGS3T–01 for ECG recording and processing with preserving the syndromal findings] Zlochevskii MS, et al. **Med Tekh** 1990 Mar–Apr;(2):38–41 (Eng. Abstr.) (Rus)

[An automated work place for the diabetologist (the problems of monitoring diabetic patients)] Mazovetskii AG, et al.
Probl Endokrinol (Mosk) 1990 Jan–Feb;36(1):55–7 (Rus)

[A highly automated expanded system for studies of the vestibular apparatus and conduction of medical experiments] Mostovaia TS, et al. **Vestn Otorinolaringol** 1989 Jul–Aug;(4):4–7 (Eng. Abstr.) (Rus)

METHODS

Artificially produced quadrantanopsia in computed visual field testing. Glovinsky Y, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):90–1

Computer assisted semen analysis not superior to routine analysis in distinguishing fertile from subfertile men. Check JH, et al. **Arch Androl** 1990;25(1):13–6

Comparison of two sperm preparation techniques using automated sperm motion analysis: migration sedimentation versus swim–up. Yener C, et al. **Arch Androl** 1990; 25(1):17–20

Combining clinical judgement and statistical data in expert systems: over–the–telephone management decisions for critical congenital heart disease in the first month of life. Franklin RC, et al. **Int J Clin Monit Comput** 1989 Jul; 6(3):157–66

A desktop expert system for the differential diagnosis of dementia. An evaluation study. Plugge LA, et al.
Int J Technol Assess Health Care 1990;6(1):147–56

Reliability of manual muscle testing with a computerized dynamometer. Hsieh CY, et al.
J Manipulative Physiol Ther 1990 Feb;13(2):72–82

HEPAR: an expert system for the diagnosis of disorders of the liver and biliary tract. Lucas PJ, et al. **Liver** 1989 Oct; 9(5):266–75

Domain knowledge and hypothesis generation in diagnostic reasoning. Joseph GM, et al. **Med Decis Making** 1990 Jan–Mar;10(1):31–46

The demise of the "Greek Oracle" model for medical diagnostic systems. Miller RA, et al. **Methods Inf Med** 1990 Jan;29(1):1–2 (14 ref.)

Myoelectric and manometric patterns of human rectosigmoid colon in irritable bowel syndrome and diverticulosis. Katschinski M, et al. **Scand J Gastroenterol** 1990 Jul; 25(7):761–8

A comparison of four computerized methods for measuring vertebral rotation. Russell GG, et al. **Spine** 1990 Jan; 15(1):24–7

[The French classification of mental disorders in children and adolescents: presentation of an expert system, JPSY] Portelli C, et al. **Ann Med Psychol (Paris)** 1989 Dec; 147(10):1082–6 (Fre)

[A protocol for monitoring antimalarial treatment] Schmitt D, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):239 (Eng. Abstr.) (Fre)

[Computer–assisted ultrasonic B–scan texture analysis of experimental liver tumors] Layer G, et al. **ROFO** 1989 Oct; 151(4):443–8 (Eng. Abstr.) (Ger)

[Development of a computer program for early diagnosis of acute myocardial infarction] Aase O, et al.
Tidsskr Nor Laegeforen 1990 Mar 30;110(9):1071–6 (Eng. Abstr.) (Nor)

[Testing of a computer program model for the diagnosis of suspected acute coronary disease] Jonsbu J, et al.
Tidsskr Nor Laegeforen 1990 Mar 30;110(9):1077–81 (Eng. Abstr.) (Nor)

[Identification of syndromes using a combined computer and video program] Strømme P, et al.
Tidsskr Nor Laegeforen 1990 Mar 30;110(9):1085–7 (Eng. Abstr.) (Nor)

[Computer–assisted testing of the sense of color] Popescu MP, et al. **Rev Chir [Oftalmol]** 1989 Oct–Dec;33(4):259–63 (Eng. Abstr.) (Rum)

[The interpretation of an expert classification of the human EEG in machine analysis terms] Zhirmunskaia EA, et al.
Fiziol Cheloveka 1990 Mar–Apr;16(2):31–40 (Rus)

[The diagnosis of cancer and nodular formations of the thyroid by using a mathematical table] Amirova NM, et al. **Probl Endokrinol (Mosk)** 1989 Jul–Aug;35(4):28–9 (Eng. Abstr.) (Rus)

[The use of a computer for the diagnosis of comatose states in diabetics (a differential diagnostic algorithm)] Sokol AE, et al. **Ter Arkh** 1989;61(12):70–2 (Eng. Abstr.) (Rus)

[Automated analysis of the body functional indices in the rehabilitation of ischemic heart disease patients at a sanatorium] Lanovenko IuP, et al.

Vopr Kurortol Fizioter Lech Fiz Kult 1989 May–Jun; (3):25–8 (Rus)

[Early diagnosis of neurotic disorders using an automated system] Blokhina VP, et al. Vrach Delo 1989 Sep;(9):97–9 (Eng. Abstr.) (Rus)

[Computer-assisted spectrum analysis of Doppler ultrasonograms in occlusive lesions of the carotid arteries] Pokrovskiĭ AV, et al. Zh Nevropatol Psikhiatr 1990; 90(1):9–12 (Eng. Abstr.) (Rus)

[The automated detection of patients with neurotic disturbances in conducting mass prophylactic examinations] Vasil'eva SV. Zh Nevropatol Psikhiatr 1990;90(5):74–7 (Eng. Abstr.) (Rus)

STANDARDS

Computerized interactive morphometry. An expert system for the diagnosis of lymphoid-rich effusions. Walts AE, et al. Am J Clin Pathol 1989 Dec;92(6):765–72

Measurement of effective elastance of the total respiratory system in ventilated patients by a computed method. Comparison with the static method. Gillard C, et al. Intensive Care Med 1990;16(3):189–95

Computerized administration of alcoholism screening tests in a primary care setting. Barry KL, et al. J Am Board Fam Pract 1990 Apr–Jun;3(2):93–8

How accurate is computer-aided diagnosis? [see comments] Sutton GC. Lancet 1989 Oct 14;2(8668):905–8 Comment in: Lancet 1989 Nov 4;2(8671):1102–3.

The human face of computers: necessary at present [editorial] Tonkin A. Med J Aust 1989 Oct 16;151(8):425

Experiences with the Milan Automated Neurobehavioral System (MANS) in occupational neurotoxic exposure. Cassitto MG, et al. Neurotoxicol Teratol 1989 Nov–Dec; 11(6):571–4

TRENDS

[Recent progress in computer-assisted laboratory diagnosis] Matsuda N. Rinsho Byori 1990 May;38(5):593–6 (7 ref.) (Eng. Abstr.) (Jpn)

[The possibilities and outlook for the prognosis of puerperal mastitis by using a computer] Emel'ianova AI, et al. Akush Ginekol (Mosk) 1989 Dec;(12):66–7 (Rus)

VETERINARY

A computer-derived protocol using recursive partitioning to aid in estimating prognosis of horses with abdominal pain in referral hospitals. Pascoe PJ, et al. Can J Vet Res 1990 Jun;54(3):373–8

Clinical experience with quantitative analysis of superficial digital flexor tendon injuries in Thoroughbred and Standardbred racehorses. Genovese RL, et al. Vet Clin North Am Equine Pract 1990 Apr;6(1):129–45 (5 ref.)

DIAGNOSIS, DIFFERENTIAL

Clinical diagnosis—is there a more rational approach? Jayasinghe S. Ceylon Med J 1989 Dec;34(4):149–51

Connectionism and the learning of probabilistic concepts. Shanks DR. Q J Exp Psychol [A] 1990 May;42(2):209–37

DIAGNOSIS, IMMUNOLOGICAL see IMMUNOLOGIC TESTS

DIAGNOSIS, LABORATORY

see related
TECHNOLOGY, MEDICAL

The relationship of laboratory parameters to dietary intake in a long-stay hospital. MacLennan WJ, et al. Age Ageing 1975 Nov;4(4):189–94

Pathology patterns. ASCP commentary on the environment of laboratory medicine. Am J Clin Pathol 1990 Apr;93(4 Suppl 1):S1–54

The importance of considering clinical usefulness in the evaluation of medical laboratory tests [letter] Sever JL. Am J Obstet Gynecol 1990 Aug;163(2):678–9

International Conference on the Computerized Cytology and Histopathology Laboratory. Chicago, Illinois, March 24–27, 1990. Abstracts. Anal Quant Cytol Histol 1990 Jun; 12(3):182–221

The interaction between laboratory errors and the clinician. Candlish J. Ann Acad Med Singapore 1989 Jul;18(4):462–4

Frontiers in clinical science. Abstracts of the 92nd meeting of the Association of Clinical Scientists. May 10–13, 1990, Vancouver, British Columbia, Canada. Ann Clin Lab Sci 1990 Jul–Aug;20(4):274–99

Clinical diagnosis by nuclear magnetic resonance spectroscopy. If not now, when? Vine W. Arch Pathol Lab Med 1990 May;114(5):453–62 (164 ref.)

Desktop laboratory technology in general practice [see comments] Stott NC. BMJ 1989 Sep 2;299(6699):579–80 (12 ref.) Comment in: BMJ 1989 Oct 14;299(6705):976.

Biochemical screening tests for the anaesthetist. Whitby LG. Br J Anaesth 1974 Aug;46(8):564–8 (13 ref.)

Near patient testing in general practice: a review [see comments] Hilton S. Br J Gen Pract 1990 Jan;40(330):32–6 (21 ref.) Comment in: Br J Gen Pract 1990 Jan;40(330):2–3.

Patients don't sue pathologists—or do they? Risk management in laboratory medicine. Emson HE, et al. Can Med Assoc J 1989 Dec 1;141(11):1133–5

Evaluation of bedside testing options for the critical care unit. Zaloga GP. Chest 1990 May;97(5 Suppl):185S–190S

Chronobiology in the clinical laboratory. Montalbetti N. Chronobiologia 1989 Oct–Dec;16(4):409–15 (41 ref.)

Sexually transmitted diseases. Clin Lab Med 1989 Sep; 9(3):369–593

Laboratory values in the elderly. Are they different? Kelso T. Emerg Med Clin North Am 1990 May;8(2):241–54 (21 ref.)

Evaluation and optimization of diagnostic tests using receiver operating characteristic analysis and information theory. Somoza E, et al. Int J Biomed Comput 1989 Sep; 24(3):153–89

Use of Chernoff faces to follow trends in laboratory data. Lott JA, et al. J Clin Lab Anal 1990;4(1):59–63

Laboratory tests during resuscitation. Fish RM, et al. J Emerg Med 1989 Sep–Oct;7(5):451–6

Laboratory critical limits [letter; comment] JAMA 1990 Jul 18;264(3):334–5 Comment on: JAMA 1990 Feb 2;263(5):704–7.

Recent advances in the laboratory diagnosis of filariasis. Mak JW. Malays J Pathol 1989 Aug;11:1–5 (16 ref.)

Mass screening in the medical laboratory. Med Lab Sci 1989 Jul;46(3):177–278

IMLS 89. Triennial conference of the Institute of Medical Laboratory Sciences. Warwick, September 1989. Abstracts. Med Lab Sci 1989 Oct;46 Suppl 1:S1–76

The problems of mass screening. Farr AD. Med Lab Sci 1989 Jul;46(3):177–8

Laboratory services and training in support of the year 2000 national health objectives. MMWR 1990 Apr 27; 39(16):276–9

Diagnosis and the polymerase chain reaction [see comments] George PM. N Z Med J 1990 Feb 14;103(883):39–40 Comment in: N Z Med J 1990 Jun 13;103(891):281.

Testing criteria—use and implementation. Battista ME. Proc Annu Meet Med Sect Am Counc Life Insur 1989; :165–72

Role of the microbiology laboratory in care of the immunosuppressed patient. Kiehn TE, et al. Rev Infect Dis 1989 Nov–Dec;11 Suppl 7:S1706–10 (28 ref.)

Diagnosis and organ oriented clinical chemistry. Report from a project group initiated by the Nordic Clinical Chemistry Project (NORDKEM). Scand J Clin Lab Invest Suppl 1990; 200:5–66

Characteristics of laboratory markers in alcohol-related organ damage. Salaspuro M. Scand J Gastroenterol 1989 Sep;24(7):769–80 (131 ref.)

Current issues in laboratory diagnosis of bleeding disorders and hypercoagulable states. Dedicated to the memory of Anthony P. Fletcher, M.D. Semin Thromb Hemost 1990 Apr;16(2):151–97

Is blood testing necessary before OC prescription in Africa? Buekens P, et al. Stud Fam Plann 1990 May–Jun; 21(3):178–80

Prenatal laboratory screening. Rathbun ED, et al. Tex Med 1990 Mar;86(3):52–7 (54 ref.)

Interpretation of pathophysiology by laboratory data (1). Graphic display of data, static pattern. Niwa M, et al. Tokai J Exp Clin Med 1989 Apr;14(2):153–65

Interpretation of pathophysiology by laboratory data (2). Graphic display of data, dynamic pattern. Niwa M, et al. Tokai J Exp Clin Med 1989 Apr;14(2):167–79

[Laboratory monitoring of drugs causing drug dependence] Večerek B, et al. Zdrav Aktual 1982;200:123–8 (Cze)

[Accuracy of serum cholesterol measurements at central laboratories (letter)] Stahl M, et al. Ugeskr Laeger 1989 Sep 25;151(39):2525–6 (Dan)

[Drug interference with biochemical analysis] Ben Ammar S, et al. Tunis Med 1989 Dec;67(12):797–803 (Fre)

[Expectations between the clinic and the clinical laboratory] Schmidt LH. Z Gesamte Inn Med 1989 Sep 1;44(17):501–4 (7 ref.) (Eng. Abstr.) (Ger)

[Requirements of intensive care medicine for laboratory diagnosis] Fiedler H, et al. Z Med Lab Diagn 1990; 31(4):192–9 (Eng. Abstr.) (Ger)

[Help with decisions on the assessment of clinical chemistry results] Keller H. Z Med Lab Diagn 1989;30(8):416–24 (8 ref.) (Ger)

[The relationship of analytic to biological variance—consequences for diagnosis and for the choice of laboratory tests] Menschikow WW, et al. Z Med Lab Diagn 1989;30(7):364–8 (Eng. Abstr.) (Ger)

[Medical decision making: its history and technical terms] Fukui T. Rinsho Byori 1990 May;38(5):582–6 (Eng. Abstr.) (Jpn)

[The clinical pulmonary function tests in the central laboratory section—present and problems of tests] Kambe M, et al. Rinsho Byori 1990 Jun;38(6):644–50 (Eng. Abstr.) (Jpn)

[Comment on the application of medical decision making] Sakurai T. Rinsho Byori 1990 May;38(5):604–5 (Eng. Abstr.) (Jpn)

[Proffered opinion forum medical decision making, impact on laboratory tests] Sekiguchi S. Rinsho Byori 1990 May; 38(5):601–3 (Eng. Abstr.) (Jpn)

[Theoretical study on laboratory diagnosis; expression of data summary] Usui T. Rinsho Byori 1990 Jan;Spec No 83:19–26 (Jpn)

[The pathogenesis of disease and the significance of laboratory testing methods] Enokhovich VA, et al. Lab Delo 1989;(7):73–4 (Eng. Abstr.) (Rus)

[An automated biochemical laboratory. Prospective development] Makarovskiĭ VV, et al. Lab Delo 1989; (9):26–8 (Eng. Abstr.) (Rus)

[Laboratory diagnosis of inflammations of the bronchopulmonary system (review of the literature)] Tkach IuI. Lab Delo 1990;(3):4–10 (23 ref.) (Rus)

[Experience with the use of laboratory methods of comprehensively evaluating the state of health of newborn infants] Ustinovich AK, et al. Lab Delo 1990;(3):74–6 (Eng. Abstr.) (Rus)

ECONOMICS

Evaluating STAT testing alternatives by calculating annual laboratory costs. Statland BE, et al. Chest 1990 May;97(5 Suppl):198S–203S

Laboratory costing system based on number and type of test: its association with the Welcan workload measurement system. Tarbit IF. J Clin Pathol 1990 Feb;43(2):92–7

[Calculation of the economic efficacy of biochemical clinico-diagnostic studies] Balakhovskiĭ IS, et al. Lab Delo 1990;(2):51–4 (Rus)

[Some approaches to the calculation of the intralaboratory costs of analyses in an automated laboratory] Bol'shakova TD, et al. Lab Delo 1990;(2):58–61 (Rus)

[Methods of calculating the costs of laboratory analyses and indices of the economic efficacy of the work of clinico-diagnostic laboratories] Men'shikov VV, et al. Lab Delo 1990;(2):54–8 (Rus)

[Principles of calculating and evaluating expenditures on laboratory studies] Tomashevski EE. Lab Delo 1990; (2):65–8 (Rus)

HISTORY

[The history of clinical tests in Japan—their origins and development] Terahata K. Rinsho Byori 1988 Feb;Spec No 76:1–318 (Jpn)

INSTRUMENTATION

Satisfaction of medically useful criteria [letter; comment] Pradella M, et al. Arch Pathol Lab Med 1990 May; 114(5):449–50 Comment on: Arch Pathol Lab Med 1988 Jul;112(7):757–9.

Miles Tissue-Tek VIP tissue processors. Health Devices 1988 Feb;17(2):69–70

[Automated instruments for clinical laboratory—its past and future] Motegi K. Rinsho Byori 1989 Dec;37(12):1301–7 (2 ref.) (Eng. Abstr.) (Jpn)

[Use of programmed microcalculators for data processing of the results of intra- and interlaboratory control] Naumova VA, et al. Lab Delo 1989;(10):78–9 (Rus)

[Multiple-use laboratory forms at the military polyclinic] Snisarenko VN, et al. Voen Med Zh 1989 Jul;(7):16–9 (Rus)

METHODS

The impact of fine-needle aspiration biopsy on a diagnostic electron microscopy laboratory. Strausbauch P, et al. Arch Pathol Lab Med 1989 Dec;113(12):1354–6

Desktop laboratory technology in general practice [letter; comment] Collinson PO, et al. BMJ 1989 Oct 14; 299(6705):976 Comment on: BMJ 1989 Sep 2;299(6699):579–80.

Who is responsible if a patient is not told of negative lab results? Birenbaum R. Can Med Assoc J 1989 Nov 1; 141(9):970–2

Bedside diagnostic testing. Chest 1990 May;97(5 Suppl):183S–214S

The bedside laboratory. A critical step forward in ICU care. Chernow B. Chest 1990 May;97(5 Suppl):183S–184S

A macro-driven Lotus 1-2-3 template for calculating and plotting receiver-operator characteristic curves for clinical laboratory tests. Wisecarver JL, et al. Comput Biol Med 1990;20(2):121–7

Microbiology of sexually transmitted diseases [published erratum appears in East Afr Med J 1989 Sep;66(9):627] East Afr Med J 1989 Jun;66(6):369–71

From Luc and Phot genes to the hospital bed. Campbell AK, et al. J Biolumin Chemilumin 1990 Apr–Jun;5(2):131–9

Laboratory diagnostic tests for Alzheimer's disease. Iqbal K, et al. Prog Clin Biol Res 1989;317:679–87 (29 ref.)

[Evaluation of laboratory tests in uveitis: a study by the International Uveitis Study Group] Dernouchamps JP. Bull Soc Belge Ophtalmol 1988;229:23–8 (Eng. Abstr.) (Fre)

[The evaluation of dry chemical laboratory methods. Their value within the framework of step-by-step diagnosis in general medicine] Härter G, et al. Fortschr Med 1990 Apr 10;108(10):203–6 (Eng. Abstr.) (Ger)

[Realization of an online connection of laboratory apparatus with personal computers] Schliack M, et al. Z Versuchstierkd 1989;32(6):241–7 (7 ref.) (Eng. Abstr.) (Ger)

[Laboratory diagnosis in the unit's medical center (methodological recommendations)] Kozhemiakin LA, et al. Voen Med Zh 1990 Jan;(1):27–30 (Rus)

STANDARDS

Proficiency testing for biochemical genetics laboratories: the first 10 rounds of testing. Hommes FA, et al. Am J Hum Genet 1990 May;46(5):1001–4

Maternal serum alpha-fetoprotein (MSAFP) patient-specific risk reporting: its use and misuse. Macri JN, et al. **Am J Hum Genet** 1990 Mar;46(3):587–90

Touching all the bases in diagnostic test assessment [editorial] Beck JR. **Am J Med** 1990 Mar;88(3):203–4

Use of 'quality control master charts' in the routine laboratory. Rao A, et al. **Ann Clin Biochem** 1989 Sep;26 (Pt 5):449–50

The impact of whole-blood testing on response time. A challenge for the new College of American Pathologists Q-Probes program. Kost GJ. **Arch Pathol Lab Med** 1990 Sep;114(9):921–2

The evolving regulatory environment and bedside metabolic monitoring of the acute care patient. Baer DM, et al. **Chest** 1990 May;97(5 Suppl):191S–197S

External quality control in the andrology laboratory: an experimental multicenter trial. Neuwinger J, et al. **Fertil Steril** 1990 Aug;54(2):308–14

When laboratory tests are abnormal and the patient feels fine. Shulkin DJ, et al. **Hosp Pract [Off]** 1990 Jul 15;25(7):85–6, 89–90, 92

Macrocytosis as an indicator of human disease. Keenan WF Jr. **J Am Board Fam Pract** 1989 Oct-Dec;2(4):252–6

How many patients are necessary to assess test performance? [see comments] Arkin CF, et al. **JAMA** 1990 Jan 12; 263(2):275–8 Comment in: JAMA 1990 Jan 12;263(2):281.

Federal officials hearing plenty (of opposition) during comment period on new laboratory rules [news] Goldsmith MF. **JAMA** 1990 Apr 18;263(15):2023, 2027

Physician performance of laboratory tests in self-service facilities. Residents' perceptions and performance. Hilborne LH, et al. **JAMA** 1990 Jul 18;264(3):382–6

Critical limits for urgent clinician notification at US medical centers [see comments] Kost GJ. **JAMA** 1990 Feb 2; 263(5):704–7 Comment in: JAMA 1990 Feb 2;263(5):709. Comment in: JAMA 1990 Jul 18;264(3):334–5.

Critical (panic) value notification: an established laboratory practice policy (parameter) [editorial; comment] Lundberg GD. **JAMA** 1990 Feb 2;263(5):709 Comment on: JAMA 1990 Feb 2;263(5):704–7.

A Scottish lament [editorial] [see comments] **Lancet** 1990 May 5;335(8697):1066–7 Comment in: Lancet 1990 May 26;335(8700):1284.

The use of laboratory data [letter] **N Z Med J** 1990 Sep 12;103(897):436–7

Clinical evaluation and cost effectiveness of preoperative laboratory assessment on patients undergoing total hip arthroplasty. Sanders DP, et al. **Orthopedics** 1989 Nov; 12(11):1449–53

Laboratory screening: pitfalls and clinical relevance. O'Connor M. **Proc Annu Meet Med Sect Am Counc Life Insur** 1989; :121–32

Standardization of diagnostic laboratory methods—results, experiences and future goals. Dummler W. **Przegl Lek** 1989; 46(7):574–7 **(Eng, Pol)**

[A display of deviations in test data] Ikawa S. **Rinsho Byori** 1988 May;Spec No 77:51–63 **(Jpn)**

[The basic indices of the reference sera manufactured by the Allergen NPO] Bibik TT, et al. **Lab Delo** 1990;(2):72–4 **(Rus)**

[The qualification requirements for the laboratory physician] Morozova VT. **Lab Delo** 1990;(1):52–64 **(Rus)**

STATISTICS & NUMERICAL DATA

Direct access to hospital investigative facilities [letter] **J R Coll Gen Pract** 1989 Nov;39(328):478

TRENDS

Rapid viral diagnosis in perspective. Lee PC, et al. **BMJ** 1990 Jun 2;300(6737):1313–8 (71 ref.)

Current and future directions in the technology relating to bedside testing of critically ill patients. Misiano DR, et al. **Chest** 1990 May;97(5 Suppl):204S–214S (98 ref.)

[Current role of the laboratory in the demonstration and follow up of monoclonal immunoglobulinopathy] Myara I. **Pathol Biol (Paris)** 1990 Feb;38(2):134–43 (Eng. Abstr.) **(Fre)**

[Laboratory tests on cancer] Kondo S. **Rinsho Byori** 1990 Jan;38(1):3–4 (Eng. Abstr.) **(Jpn)**

[Recent progress in computer-assisted laboratory diagnosis] Matsuda N. **Rinsho Byori** 1990 May;38(5):593–6 (7 ref.) (Eng. Abstr.) **(Jpn)**

UTILIZATION

Utility of laboratory studies in the emergency department patient with a new-onset seizure. Turnbull TL, et al. **Ann Emerg Med** 1990 Apr;19(4):373–7

Laboratory medicine in primary health care [editorial; comment] Broughton PM. **Br J Gen Pract** 1990 Jan; 40(330):2–3 Comment on: Br J Gen Pract 1990 Jan;40(330):32–6.

Diagnostic test restraint and the specialty consultation [see comments] Braham RL, et al. **J Gen Intern Med** 1990 Mar-Apr;5(2):95–103 Comment in: J Gen Intern Med 1990 Mar-Apr;5(2):178–9.

Inappropriate testing for diarrheal diseases in the hospital. Siegel DL, et al. **JAMA** 1990 Feb 16;263(7):979–82

Comparison of laboratory test use among three urgent care clinics. Lurvey NL, et al. **R I Med J** 1990 May;73(5):215–8

VETERINARY

The role of the Australian Animal Health Laboratory. Della-Porta AJ. **Aust Vet J** 1989 Dec;66(12):455–9 (28 ref.)

Pitfalls of test interpretations [letter; comment] Carakostas MC. **J Am Vet Med Assoc** 1990 Jan 1;196(1):10–1 Comment on: J Am Vet Med Assoc 1989 Oct 1;195(7):928–30.

Effective use of analytical laboratories for the diagnosis of toxicologic problems in small animal practice. Poppenga RH, et al. **Vet Clin North Am Small Anim Pract** 1990 Mar; 20(2):293–306 (12 ref.)

DIAGNOSIS, ORAL

Oral complications of cancer therapies. Essential aspects of a pretreatment oral examination. Stevenson-Moore P. **NCI Monogr** 1990;(9):33–6

EDUCATION

Dentists' knowledge, case-finding behavior, and confirmed diagnosis of oral cancer. Sadowsky D, et al. **J Cancer Educ** 1988;3(2):127–34

INSTRUMENTATION

Methodological considerations concerning the use of Bruxcore Plates to evaluate nocturnal bruxism. Pierce CJ, et al. **J Dent Res** 1989 Jun;68(6):1110–4

STANDARDS

Dangers stemming from superficial examination and diagnosis. A case history. Kramer S. **N Y State Dent J** 1989 Nov;55(9):58, 60, 62

DIAGNOSIS, PRENATAL see **PRENATAL DIAGNOSIS**

DIAGNOSIS, RADIOISOTOPE

METHODS

Evaluating pulmonary vascular permeability with radiolabeled proteins: an error analysis. Mintun MA, et al. **J Appl Physiol** 1990 Apr;68(4):1696–706

TRENDS

Nuclear medicine comes of age: its present and future roles in diagnosis. McAfee JG, et al. **Radiology** 1990 Mar;174(3 Pt 1):609–20 (43 ref.)

DIAGNOSIS, SURGICAL

[Localization of nonpalpable breast lesions in intraoperative rapid-section diagnosis using a new procedure] Bollmann R, et al. **ROFO** 1990 Jul;153(1):73–5 (Eng. Abstr.) **(Ger)**

METHODS

Can duplex scanning replace arteriography for lower extremity arterial disease? Kohler TR, et al. **Ann Vasc Surg** 1990 May;4(3):280–7

Tissue imprints in surgical pathology: a rapid intraoperative diagnostic aid. Scopa CD, et al. **Diagn Cytopathol** 1990; 6(1):5–8

DIAGNOSTIC ERRORS

Sources of observer variation in dermatologic diagnosis. Norman GR, et al. **Acad Med** 1990 Sep;65(9 Suppl):S19–20

When is a test result abnormal? Defining limits and risks. Charrow J, et al. **Am J Dis Child** 1990 Feb;144(2):245–50

Niikawa-Kuroki (Kabuki make-up) syndrome [letter] Mulvihill JJ, et al. **Am J Med Genet** 1989 Jul;33(3):425

The interaction between laboratory errors and the clinician. Candlish J. **Ann Acad Med Singapore** 1989 Jul;18(4):462–4

Preventability of malpractice claims in emergency medicine: a closed claims study [see comments] Karcz A, et al. **Ann Emerg Med** 1990 Aug;19(8):865–73 Comment in: Ann Emerg Med 1990 Aug;19(8):943.

Accuracy of diagnosis of choroidal melanomas in the Collaborative Ocular Melanoma Study. COMS report no. 1. **Arch Ophthalmol** 1990 Sep;108(9):1268–73

Exclude eclampsia early. Smoleniec JS, et al. **BMJ** 1990 May 12;300(6734):1242

Mathematical implications of inadvertent sample swapping and the perception of apparent rates of gross error [letter] Soloway HB, et al. **Clin Chem** 1990 Aug;36(8 Pt 1):1525–6

Missed injuries in an orthopaedic department. Juhl M, et al. **Injury** 1990 Mar;21(2):110–2

A review of 50 malpractice claims. Classé JG. **J Am Optom Assoc** 1989 Sep;60(9):694–706

In response to Dr. Ratzan [letter; comment] Koscove E, et al. **J Emerg Med** 1989 Jul-Aug;7(4):410–1 Comment on: J Emerg Med 1988 Sep-Oct;6(5):451–4.

Medical malpractice claims in cardiology. Kuehm SL, et al. **N J Med** 1990 May;87(5):393–8

Decreasing the risks in diagnosis. **Ohio Med** 1990 Jun; 86(6):478

Common errors in evaluating chest radiographs. Mann H. **Postgrad Med** 1990 Jan;87(1):275–8, 281–2

The relation of medical problem solving and therapeutic errors to disease categories. Weinberg NS. **QRB** 1989 Sep; 15(9):266–72

Diagnostic derailment [editorial] Fred HL. **South Med J** 1989 Nov;82(11):1333

[Artefacts] Stapff M. **Bildgebung** 1987–89;56 Suppl 2:80–4 **(Ger)**

[Instrument diagnostic errors in biologic process models] Möller DP, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:128–9 **(Ger)**

[Prevention of false results in tests for occult blood in feces] Zwillenberg LO. **Schweiz Rundsch Med Prax** 1990 Apr 24;79(17):521–3 (Eng. Abstr.) **(Ger)**

[The relationship of analytic to biological variance—consequences for diagnosis and for the choice of laboratory tests] Menschikow WW, et al. **Z Med Lab Diagn** 1989;30(7):364–8 (Eng. Abstr.) **(Ger)**

[Problems of the agreement of clinical and postmortem diagnoses. Comment on the article by F. Vollmar (Zentralbl. allg. Pathol. pathol. Anat. 1989; 135:699–704) (letter)] Schneider E, et al. **Zentralbl Allg Pathol** 1990; 136(3):290–2 **(Ger)**

[Errors resulting from incorrect estimation of the depth of the burn injury] Novák J, et al. **Magy Traumatol Orthop Helyreallito Sebesz** 1990; 33(1):73–6 (Eng. Abstr.) **(Hun)**

[Reliability of data on the major causes of death] Egnerová A, et al. **Cesk Zdrav** 1989 Dec;37(12):526–34 (Eng. Abstr.) **(Slo)**

[Misuse of psychiatry within health services—a sign of wrong diagnosis?] Ahlrot-Westerlund B. **Lakartidningen** 1990 Mar 7;87(10):738 **(Swe)**

[Quality of the data in a patient registry] Almer S, et al. **Lakartidningen** 1990 Apr 18;87(16):1335–8 **(Swe)**

VETERINARY

Misdiagnosis in normal radiographic anatomy: nine structural configurations simulating disease entities in horses. Kneller SK, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1272–82 (14 ref.)

DIAGNOSTIC IMAGING

see related
IMAGE PROCESSING, COMPUTER-ASSISTED

Syringomyelia: a retrospective study Part II: Diagnostic and therapeutic approach. Van Calenbergh F, et al. **Acta Neurol Belg** 1990;90(2):100–10

Neuroimaging of disseminated germ cell neoplasms. Mathews VP, et al. **AJNR** 1990 Mar-Apr;11(2):319–24

Bilateral triangular adrenal calcifications [letter] Akhan O, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):1102

Diagnostic evaluation of cancer patients with pelvic pain: comparison of scintigraphy, CT, and MR imaging. Beatrous TE, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):85–8

Imaging of the acute abdomen in infants and children [see comments] Franken EA Jr, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):921–8 (69 ref.) Comment in: AJR Am J Roentgenol 1990 May;154(5):1123.

Surgical transposition of the ovaries: imaging findings in 14 patients. Kier R, et al. **AJR Am J Roentgenol** 1989 Nov; 153(5):1003–6

Diagnostic imaging in infant abuse. Kleinman PK. **AJR Am J Roentgenol** 1990 Oct;155(4):703–12 (90 ref.)

Pancreas transplant imaging: an overview. Low RA, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):13–21 (34 ref.)

Neuroimaging of disseminated germ cell neoplasms. Mathews VP, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1299–304

Simple method to identify sequential images [letter; comment] Merchant S, et al. **AJR Am J Roentgenol** 1990 Feb; 154(2):426 Comment on: AJR Am J Roentgenol 1989 Jun;152(6):1348–9.

Medical decision making: practical points for practicing radiologists. Phillips WC Jr, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1149–55 (9 ref.)

Vesicoureteral reflux and renal scarring [letter; comment] Schoeneman MJ, et al. **AJR Am J Roentgenol** 1989 Nov; 153(5):1099–100 Comment on: AJR Am J Roentgenol 1989 Apr;152(4):801–4.

The diagnosis of small hepatocellular carcinomas: efficacy of various imaging procedures in 100 patients. Takayasu K, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):49–54

Auxiliary partial liver transplantation: imaging evaluation in 10 patients. Zonderland HM, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):981–5

Diagnostic imaging procedures for the lumbar spine [published erratum appears in Ann Intern Med 1989 Dec 15;111(12):1050] [see comments] Deyo RA, et al. **Ann Intern Med** 1989 Dec 1;111(11):865–7 (27 ref.) Comment in: Ann Intern Med 1990 Feb 15;112(4):310–1.

Neuropsychological assessment and brain imaging technologies in evaluation of the sequelae of blunt head injury. Shores A, et al. **Aust N Z J Psychiatry** 1990 Mar; 24(1):133–8

Imaging of ureteral duplication with a non-functioning component. Lam AH, et al. **Australas Radiol** 1990 Feb; 34(1):64–7

Imaging endocrine disorders. **Baillieres Clin Endocrinol Metab** 1989 May;3(1):1–228

Imaging for adrenal tumours. Chan FL, et al. **Baillieres Clin Endocrinol Metab** 1989 May;3(1):153–89 (96 ref.)

Imaging paediatric endocrine disorders. Cooke KM, et al. **Baillieres Clin Endocrinol Metab** 1989 May;3(1):191–224 (52 ref.)

Gastrointestinal and pancreatic endocrine tumours. Hall JT, et al. **Baillieres Clin Endocrinol Metab** 1989 May; 3(1):121–52 (110 ref.)
Multimodality imaging of the thyroid gland. Sandler MP, et al. **Baillieres Clin Endocrinol Metab** 1989 May; 3(1):89–119 (60 ref.)
Non-invasive techniques for the measurement of bone mineral. Seeman E, et al. **Baillieres Clin Endocrinol Metab** 1989 May;3(1):1–33 (92 ref.)
Documentation in laparoscopic surgery. Wamsteker K. **Baillieres Clin Obstet Gynaecol** 1989 Sep;3(3):625–47 (10 ref.)
A non-cystic mesenchymal hamartoma of the liver—an unusual case of an unusual entity. Case report and review of the literature. Alanen A, et al. **Bildgebung** 1987–89; 56(5):181–4 (11 ref.)
Radiology '90. Proceedings of the 48th annual congress of the British Institute of Radiology. Harrogate, 11–13 June 1990. Abstracts. **Br J Radiol** 1990;63 Suppl:1–98
Non-invasive cardiac imaging. **Br Med Bull** 1989 Oct; 45(4):829–1109
"Kirlian photography" film artifacts. Greyson ND. **Can Assoc Radiol J** 1989 Dec;40(6):331
Current use of imaging in the evaluation of primary mediastinal masses. Brown K, et al. **Chest** 1990 Aug; 98(2):466–73 (32 ref.)
Clinical staging of patients with non-small cell lung cancer. Little AG, et al. **Chest** 1990 Jun;97(6):1431–8
Imaging of acute spinal trauma: an evolving multi-modality approach. Goldberg AL, et al. **Clin Imaging** 1990 Mar; 14(1):11–6 (16 ref.)
Contemporary imaging methodology for diagnosis of lesions of the head and upper neck. Reede DL, et al. **Clin Imaging** 1989 Sep;13(3):179–88 (23 ref.)
A diagnostic algorithm for osteonecrosis of the femoral head. Stulberg BN, et al. **Clin Orthop** 1989 Dec;(249):176–82 (13 ref.)
Abstracts of paper presented at the Royal College of Radiologists annual scientific meeting. 19–22 September 1989, Liverpool. **Clin Radiol** 1989 Nov;40(6):636–50
Pitfalls in the use of diagnostic tests. Rosenquist CJ. **Clin Radiol** 1989 Sep;40(5):448–50 (11 ref.)
Radiology of hepatic transplantation. Letourneau JG. **Crit Rev Diagn Imaging** 1990;30(3):281–315 (54 ref.)
The radiologic evaluation of renal metastases. Volpe JP, et al. **Crit Rev Diagn Imaging** 1990;30(3):219–46 (65 ref.)
Gastrointestinal tract. **Curr Opin Radiol** 1989 Jun;1(1):117–37
Technologic advances. **Curr Opin Radiol** 1990 Aug; 2(4):629–45
Chest. **Curr Opin Radiol** 1990 Jun;2(3):477–84
Cardiac imaging. **Curr Opin Radiol** 1990 Aug;2(4):647–63
Cardiac imaging. **Curr Opin Radiol** 1989 Aug;1(2):213–32
Gastrointestinal tract. **Curr Opin Radiol** 1990 Jun; 2(3):485–506
Genitourinary system. **Curr Opin Radiol** 1989 Oct;1(3):373–86
Neuroradiology. **Curr Opin Radiol** 1990 Feb;2(1):145–64
Musculoskeletal radiology. **Curr Opin Radiol** 1989 Oct; 1(3):387–408
Head and neck. **Curr Opin Radiol** 1990 Feb;2(1):165–70
Pediatrics. **Curr Opin Radiol** 1989 Dec;1(4):607–19
Imaging techniques in thyroid and parathyroid disease. Bischof TP, et al. **Curr Opin Radiol** 1990 Feb;2(1):122–7 (17 ref.)
Pediatric cardiovascular imaging. Burrows PE. **Curr Opin Radiol** 1989 Dec;1(4):563–71 (20 ref.)
Recent developments in the imaging of neuraxis trauma. Cohen W. **Curr Opin Radiol** 1990 Feb;2(1):34–9 (15 ref.)
Thoracic infections. Conces DJ Jr. **Curr Opin Radiol** 1990 Jun;2(3):351–4 (22 ref.)
Imaging of aging, degenerative, and demyelinating diseases. Davis PC. **Curr Opin Radiol** 1990 Feb;2(1):26–33 (29 ref.)
Imaging of peritoneal pathology. Demas BE. **Curr Opin Radiol** 1990 Jun;2(3):472–6 (11 ref.)
Motility studies. Ekberg O. **Curr Opin Radiol** 1990 Jun; 2(3):441–51 (24 ref.)
Imaging of the male pelvis. Eschelman DJ, et al. **Curr Opin Radiol** 1989 Oct;1(3):264–70 (24 ref.)
Musculoskeletal manifestations of systemic disease. Feldman F. **Curr Opin Radiol** 1989 Oct;1(3):341–9 (38 ref.)
Pediatric genitourinary radiology. Fernbach SK. **Curr Opin Radiol** 1989 Dec;1(4):544–50 (36 ref.)
Imaging of the spine in infants and children. Flodmark O. **Curr Opin Radiol** 1989 Dec;1(4):539–43 (14 ref.)
Pediatric gastrointestinal radiology. Franken EA Jr. **Curr Opin Radiol** 1989 Dec;1(4):551–6 (42 ref.)
Radiology of the pancreas. Freeny PC. **Curr Opin Radiol** 1989 Jun;1(1):81–93 (31 ref.)
Radiology of the pancreas. Freeny PC. **Curr Opin Radiol** 1990 Jun;2(3):452–61 (50 ref.)
The colon. Gelfand D. **Curr Opin Radiol** 1990 Jun; 2(3):407–12 (27 ref.)
Imaging of the biliary system. Goldberg HI. **Curr Opin Radiol** 1989 Jun;1(1):76–80 (24 ref.)
Biliary tract. Goldberg HI. **Curr Opin Radiol** 1990 Jun; 2(3):434–40 (19 ref.)
Orthopedic surgery. Griffiths HJ. **Curr Opin Radiol** 1989 Oct; 1(3):350–61 (47 ref.)
Imaging of the liver. Itoh K, et al. **Curr Opin Radiol** 1989 Jun;1(1):71–5 (19 ref.)
The larynx and trachea. Jabour BA, et al. **Curr Opin Radiol** 1990 Feb;2(1):118–21 (7 ref.)
Imaging of the gastrointestinal tract in the acquired immunodeficiency syndrome. Jeffrey RB Jr. **Curr Opin Radiol** 1990 Jun;2(3):467–71 (8 ref.)
Technical aspects of pediatric radiology. Kangarloo H. **Curr Opin Radiol** 1989 Dec;1(4):577–82 (20 ref.)
Musculoskeletal trauma. Kaye JJ. **Curr Opin Radiol** 1989 Oct; 1(3):319–23 (34 ref.)
Biopsy, nonvascular balloon dilation, and percutaneous drainage. Kerlan R. **Curr Opin Radiol** 1990 Apr;2(2):300–8 (38 ref.)
Advances in diagnostic and therapeutic imaging of the salivary glands. Larsson SG. **Curr Opin Radiol** 1990 Feb; 2(1):105–11 (15 ref.)
Oropharynx and oral cavity. Lenz M. **Curr Opin Radiol** 1990 Feb;2(1):128–39 (18 ref.)
Noninvasive evaluation of the pericardium and myocardium. Link KM. **Curr Opin Radiol** 1990 Aug;2(4):586–94 (21 ref.)
Recent advances in the imaging of spinal disorders. McCall I. **Curr Opin Radiol** 1989 Oct;1(3):311–8 (24 ref.)
Imaging of the skeleton and soft tissue in children. Oestreich AE. **Curr Opin Radiol** 1989 Dec;1(4):521–8 (35 ref.)
Bone and joint infections. Patton JT. **Curr Opin Radiol** 1989 Oct;1(3):324–30 (17 ref.)
Neoplastic musculoskeletal disease. Pettersson H. **Curr Opin Radiol** 1989 Oct;1(3):362–8 (15 ref.)
Neuroimaging in various stages of human immunodeficiency virus infection. Post MJ. **Curr Opin Radiol** 1990 Feb; 2(1):73–9 (23 ref.)
Noninvasive measurement of blood flow and perfusion. Rumberger JA. **Curr Opin Radiol** 1990 Aug;2(4):567–74 (9 ref.)
Imaging of the spleen. Rummeny EJ. **Curr Opin Radiol** 1990 Jun;2(3):426–33 (19 ref.)
Imaging of intracranial neoplasms. Russell EJ. **Curr Opin Radiol** 1990 Feb;2(1):4–17 (44 ref.)
Miscellaneous reports of interest. Stoker DJ, et al. **Curr Opin Radiol** 1989 Oct;1(3):369–71
Imaging of the liver. Thoeni RF. **Curr Opin Radiol** 1990 Jun;2(3):413–25 (40 ref.)
Imaging in renal transplantation. Thomsen HS, et al. **Curr Opin Radiol** 1989 Oct;1(3):297–305 (35 ref.)
Imaging in women. Thurmond AS. **Curr Opin Radiol** 1989 Oct;1(3):271–6 (18 ref.)
Pulmonary vascular diseases. Verschakelen JA, et al. **Curr Opin Radiol** 1990 Jun;2(3):360–4 (34 ref.)
Joint disease. Watt I. **Curr Opin Radiol** 1989 Oct;1(3):335–40 (23 ref.)
Soft tissue disease. Wilson DJ. **Curr Opin Radiol** 1989 Oct; 1(3):331–4 (18 ref.)
Pediatric lung disease. Wood BP. **Curr Opin Radiol** 1989 Dec; 1(4):557–62 (20 ref.)
Dental radiology. Zanella FE. **Curr Opin Radiol** 1990 Feb; 2(1):140–4 (21 ref.)
Imaging in rheumatology. **Curr Opin Rheumatol** 1990 Apr; 2(2):405–16
Diagnostic imaging of fertility disorders. Winfield AC, et al. **Curr Probl Diagn Radiol** 1990 Jan–Feb;19(1):1–38 (57 ref.)
Radiology of nasopharyngeal carcinoma. Kreel L. **Ear Nose Throat J** 1990 Apr;69(4):253–60
Imaging considerations in the geriatric emergency department patient. Loberant N, et al. **Emerg Med Clin North Am** 1990 May;8(2):361–97 (158 ref.)
Three dimensional imaging in otolaryngology. Koltai PJ, et al. **Entechnology** 1988 Sep;:6–19
Renaissance in cardiac imaging [editorial] Rigo P. **Eur Heart J** 1989 Aug;10(8):683–4
Image correlation in oncology. Chen GT, et al. **Important Adv Oncol** 1990;:131–41 (23 ref.)
Reproducibility of mantle irradiation with daily imaging films. Taylor BW Jr, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul;19(1):149–51
Experimental design of medical imaging trials. Issues and options. Begg CB. **Invest Radiol** 1989 Nov;24(11):934–6
Comparing imaging systems by ROC studies. Detection versus interpretation. Good WF, et al. **Invest Radiol** 1989 Nov;24(11):932–3
Intracranial arteriovenous malformations. Current imaging and treatment. Graves VB, et al. **Invest Radiol** 1990 Aug; 25(8):952–60 (38 ref.)
Pitfalls in the diagnosis of metastatic disease or local tumor extension with modern imaging techniques. Steckel RJ, et al. **Invest Radiol** 1990 Jul;25(7):818–23 (17 ref.)
Neuroimaging in child and adolescent psychiatry. Kuperman S, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar; 29(2):159–72 (96 ref.)
Kodak working to advance [news] Dero P. **J Belge Radiol** 1989 Oct;72(5):429–30
Imaging of colorectal carcinoma. Freson M, et al. **J Belge Radiol** 1989 Oct;72(5):389–96
Brain-imaging approaches in psychiatry: early developmental considerations. Morihisa JM. **J Clin Psychiatry** 1990 Jan; 51 Suppl:44–6 (25 ref.)
Diagnostic imaging of trauma to the ankle and foot. Part VI: Forefoot injuries. Mitchell MJ, et al. **J Foot Surg** 1990 Mar–Apr;29(2):188–94
Imaging the hand and wrist. Wilson AJ, et al. **J Hand Surg [Br]** 1990 May;15(2):153–67 (59 ref.)
The use of imaging procedures in the diagnosis of metastatic disease of the lumbar spine. Defoyd WD. **J Manipulative Physiol Ther** 1990 Mar–Apr;13(3):161–4
Optical disk archiving using a personal computer: a solution to image storage problems in diagnostic imaging departments. Parkin A, et al. **J Med Eng Technol** 1990 Mar–Apr;14(2):55–9
A computational approach to medical imaging. Calamai R, et al. **J Nucl Med Allied Sci** 1990 Jan–Mar;34(1):42–50
From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Jun 13;263(22):2995
Symposium on progress of diagnostic imaging of the cardiovascular system. 53rd annual scientific session of the Japanese Circulation Society. March 31, 1989, Nagoya. Proceedings. **Jpn Circ J** 1990 Mar;54(3):273–343
The role of neuroimaging in the clinical practice of epilepsy—with a special reference to the correlative studies on the epileptogenic foci. Asakura T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):401–2
Imaging-guided biopsy. Welch TJ, et al. **Mayo Clin Proc** 1989 Oct;64(10):1295–302 (27 ref.)
Clear cell sarcoma of the kidney: accuracy of imaging methods for detecting bone metastases. Report from the National Wilms' Tumor Study. Feusner JH, et al. **Med Pediatr Oncol** 1990;18(3):225–7
Recent advances in thyroid imaging. Sandler MP, et al. **Otolaryngol Clin North Am** 1990 Apr;23(2):251–70 (50 ref.)
26th Congress of the European Society of Pediatric Radiology. Dublin, Ireland, 24.–26. May 1989. Abstracts. **Pediatr Radiol** 1989;19(4):264–86
27th Congress of the European Society of Paediatric Radiology. Munich, May 16–19, 1990. Abstracts. **Pediatr Radiol** 1990;20(5):377–424
Multimodality imaging of the upper airway: MRI, MR spectroscopy, and ultrafast X-ray CT. Hoffman EA, et al. **Prog Clin Biol Res** 1990;345:291–301
Imaging in radiotherapy: looking to the future. Taylor J. **Radiogr Today** 1989 Jul;55(626):16–9
The many faces of neuroblastoma. David R, et al. **Radiographics** 1989 Sep;9(5):859–82 (15 ref.)
Fibrous lesions of bones. Kumar R, et al. **Radiographics** 1990 Mar;10(2):237–56 (33 ref.)
Pulmonary arterial hypertension: a contemporary review. Randall PA, et al. **Radiographics** 1989 Sep;9(5):905–27 (17 ref.)
Imaging of sacrococcygeal germ cell tumors. Wells RG, et al. **Radiographics** 1990 Jul;10(4):701–13 (21 ref.)
Orthopedics. **Radiol Clin North Am** 1990 Mar;28(2):233–483
Imaging of joints. **Radiol Clin North Am** 1990 Sep; 28(5):905–1138
Lung cancer. **Radiol Clin North Am** 1990 May;28(3):489–667
75th anniversary scientific assembly and annual meeting: Radiological Society of America, including sessions in joint sponsorship with American Association of Physicists in Medicine. Nov. 26–Dec. 1, Chicago. Abstracts [published errata appear in Radiology 1990 Feb;174(2):582 and 1990 Mar;174(3 Pt 1):897] **Radiology** 1989 Nov;173P Suppl:1–654
RSNA index to imaging literature. Volumes 162–173(I), 1987–1989. **Radiology** 1990 Jan;Suppl:1–781
Imaging of colorectal carcinoma [letter; comment] Charnley RM. **Radiology** 1990 Jan;174(1):283 Comment on: Radiology 1989 Feb;170(2):308–10.
von Hippel-Lindau disease: radiologic screening for visceral manifestations. Choyke PL, et al. **Radiology** 1990 Mar;174(3 Pt 1):815–20
Collaborative evaluations of diagnostic tests: experience of the Radiology Diagnostic Oncology Group. Gatsonis C, et al. **Radiology** 1990 May;175(2):571–5
"Turf battles" over imaging and interventional procedures in community hospitals: survey results [see comments] Levin DC, et al. **Radiology** 1990 Aug;176(2):321–4 Comment in: Radiology 1990 Aug;176(2):319–20.
Imaging of tumoral calcinosis: new observations. Martinez S, et al. **Radiology** 1990 Jan;174(1):215–22
Multimodality imaging of brain structures for stereotactic surgery. Zhang J, et al. **Radiology** 1990 May;175(2):435–41
Imaging and clinical medicine today [editorial] Marano P. **Rays** 1989 Apr–Jun;14(2):107–14 (Eng, Ita)
Functional organization of primate visual cortex revealed by high resolution optical imaging. Ts'o DY, et al. **Science** 1990 Jul 27;249(4967):417–20
Diagnostic radiology today. **Semin Roentgenol** 1989 Oct; 24(4):203–80
Gynecological imaging. **Semin Ultrasound CT MR** 1988 Apr; 9(2):79–182
State of the art temporal bone imaging. **Semin Ultrasound CT MR** 1989 Jun;10(3):177–301
Carcinoma of the prostate. **Semin Ultrasound CT MR** 1988 Oct;9(5):327–78
State of the art oncological imaging. **Semin Ultrasound CT MR** 1989 Dec;10(6):429–517
State of the art orbital imaging. **Semin Ultrasound CT MR** 1988 Dec;9(6):379–473
Imaging in primary-lung cancer: the roles of detection, staging, and follow-up. Bragg DG. **Semin Ultrasound CT MR** 1989 Dec;10(6):453–66 (35 ref.)
Gastrointestinal cancer: diagnosis, staging, and the follow-up role of imaging. Halvorsen RA Jr, et al. **Semin Ultrasound CT MR** 1989 Dec;10(6):467–80 (84 ref.)
Peering over the horizon: the latest in imaging the eye. Harnsberger HR. **Semin Ultrasound CT MR** 1988 Dec; 9(6):379–80
The radiologic role in diagnosis, staging, and follow-up of neoplasia of the brain, spine, and head and neck. Harnsberger HR, et al. **Semin Ultrasound CT MR** 1989 Dec;10(6):431–52 (83 ref.)

The radiologic evaluation of congenital and pediatric lesions of the orbit. Hopper KD, et al. **Semin Ultrasound CT MR** 1988 Dec;9(6):413–27 (6 ref.)

Many facets of prostate carcinoma. Hricak H. **Semin Ultrasound CT MR** 1988 Oct;9(5):327–8

The role of imaging in musculoskeletal tumors. Manaster BJ, et al. **Semin Ultrasound CT MR** 1989 Dec;10(6):498–517 (56 ref.)

Imaging of congenital uterine anomalies. Mintz MC, et al. **Semin Ultrasound CT MR** 1988 Apr;9(2):167–74 (25 ref.)

The impact of radiology on the management of prostatic disease: a clinician's perspective. Mulholland SG. **Semin Ultrasound CT MR** 1988 Oct;9(5):335–8 (33 ref.)

Algorithms for patient care. Rifkin MD. **Semin Ultrasound CT MR** 1988 Oct;9(5):372–3

The diagnosis, staging, and follow-up of carcinomas of the kidney, bladder, and prostate: the role of cross-sectional imaging. Singer J, et al. **Semin Ultrasound CT MR** 1989 Dec;10(6):481–97 (75 ref.)

Diagnostic approaches to the renal mass. Fleischmann J, et al. **Semin Urol** 1989 Aug;7(3):153–7 (22 ref.)

Radiographic imaging and urologic decision making in the management of renal and ureteral calculi. Van Arsdalen KN, et al. **Urol Clin North Am** 1990 Feb;17(1):171–90 (41 ref.)

Infertility: imaging of the female. Clark RL, et al. **Urol Radiol** 1989;11(4):233–7 (21 ref.)

Magnetic resonance imaging versus X-ray computed tomography—which is the appropriate first imaging examination? Hinshaw DB Jr. **West J Med** 1989 Nov; 151(5):569–70

Value of tumor localization in patients with insulinoma. Böttger TC, et al. **World J Surg** 1990 Jan–Feb;14(1):107–12; discussion 112–4

Imaging intraabdominal abscesses and nonoperative drainage procedures. Haaga JR. **World J Surg** 1990 Mar–Apr; 14(2):204–9 (41 ref.)

Hepatic incidentaloma: a modern problem. Little JM, et al. **World J Surg** 1990 Jul–Aug;14(4):448–51

[Appendicitis: advantages of US and CT in aspecific clinical and radiological findings] Sulistio H, et al. **J Belge Radiol** 1989 Dec;72(6):493–6 (Eng. Abstr.) (Dut)

[Current developments in the imaging of the brain (letter)] **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1013–4 (Dut)

[The EEG in neurological practice; shifts in the diagnosis (letter)] **Ned Tijdschr Geneeskd** 1989 Dec 16;133(50):2521–7 (Dut)

[Current developments in imaging of the brain] Thijssen HO, et al. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):519–21 (Dut)

[Imaging in ischemic colitis] de La Lande P. **Ann Gastroenterol Hepatol (Paris)** 1990 Jan–Feb;26(1):15–6 (Fre)

[Electronic and digital imaging in ophthalmology. Analysis and prospects of future development] Kokel JL, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1465–9 (Eng. Abstr.) (Fre)

[Radiological diagnostic methods in osteoporosis] Ginalski JM, et al. **Rev Med Suisse Romande** 1990 Apr;110(4):341–5 (Fre)

[Alveolar microlithiasis—contribution of computerized scanning and bone scintigraphy] Cheikh R, et al. **Tunis Med** 1990 Jan;68(1):45–9 (14 ref.) (Eng. Abstr.) (Fre)

[Symposium "Rational diagnosis in oncology". 17–18 November 1988, Berlin–Buch] **Arch Geschwulstforsch** 1990; 60(1):35–70 (Ger)

[Imaging diagnosis of diseases of the pancreas] Glaser J. **Dtsch Med Wochenschr** 1990 Sep 7;115(36):1361–7 (76 ref.) (Ger)

[Imaging procedures as principle aids in functional surgical therapy of the temporomandibular joint] Gundlach KK. **Fortschr Kiefer Gesichtschir** 1990;35:158–61 (25 ref.) (Ger)

[Differential diagnosis of thoracic aortic aneurysm] Beuckelmann DJ, et al. **Internist (Berl)** 1990 May; 31(5):356–61 (14 ref.) (Ger)

[Value of preoperative diagnosis in assessing tumor extension of ductal pancreatic carcinoma] Böttger T, et al. **Langenbecks Arch Chir** 1990;375(1):33–8 (Eng. Abstr.) (Ger)

[Value of diagnostic localization of insulinoma] Böttger T, et al. **Med Klin** 1989 Sep 15;84(9):415–20 (Eng. Abstr.) (Ger)

[Multiple sclerosis and its delimitation from other diseases. Case report examples with differential diagnostic considerations] Gold R, et al. **Med Klin** 1990 Jul 15; 85(7):454–8 (Ger)

[The value of preoperative diagnosis for surgical treatment of liver tumor. Results of a consecutive study series from the surgical viewpoint] Reimund KP, et al. **Med Klin** 1990 Mar 15;85(3):121–4 (Eng. Abstr.) (Ger)

[The significance of imaging procedures] Reither M. **Monatsschr Kinderheilkd** 1990 Jun;138(6):316–9 (Eng. Abstr.) (Ger)

[Diagnostic imaging in female infertility and sterility—desiderata and reality] Abet L, et al. **Radiol Diagn (Berl)** 1990;31(3):205–7 (Eng. Abstr.) (Ger)

[Medical and economic aspects of complex diagnostic imaging] Göthlin JH. **Radiol Diagn (Berl)** 1990;31(3):189–91 (Ger)

[Prostatic and bladder cancer—desiderata of the urologist as regards diagnostic imaging] Schnorr D. **Radiol Diagn (Berl)** 1990;31(3):193–7 (Eng. Abstr.) (Ger)

[Prostatic and bladder cancer—possibilities and limitations of diagnostic imaging] Stobbe G, et al. **Radiol Diagn (Berl)** 1990;31(3):199–204 (21 ref.) (Eng. Abstr.) (Ger)

[What is your diagnosis? Staphylococcal spondylodiscitis] Brückle W. **Schweiz Rundsch Med Prax** 1990 Jul 17; 79(29–30):875–6 (Ger)

[Current possibilities in radiology for the diagnosis and therapy of gastrointestinal hemorrhage (roentgen diagnosis, nuclear medicine and interventional radiology)] Brühlmann WF, et al. **Schweiz Rundsch Med Prax** 1990 Apr 10; 79(15):448–51 (19 ref.) (Eng. Abstr.) (Ger)

[Comparison of current proctological diagnostic studies] Buchmann P. **Schweiz Rundsch Med Prax** 1990 Jul 17; 79(29–30):892–5 (Eng. Abstr.) (Ger)

[Diagnosis and therapy of cerebrovascular diseases] Yaşargil MG. **Schweiz Rundsch Med Prax** 1990 Jan 9;79(1–2):3–8 (14 ref.) (Eng. Abstr.) (Ger)

[Value of diagnostic measures in soft tissue diseases and soft tissue lesions of the shoulder joint] Wirth CJ, et al. **Unfallchirurg** 1990 Aug;93(8):339–45 (39 ref.) (Eng. Abstr.) (Ger)

[Use of imaging procedures in arterial hypertension] Eisenberg BM. **Z Arztl Fortbild (Jena)** 1990;84(10):473–9 (10 ref.) (Ger)

[Diagnostic imaging in liver diseases—personal experiences] Hasik J, et al. **Z Arztl Fortbild (Jena)** 1990;84(5):207–10 (Ger)

[55th annual meeting of the German Society for Cardiovascular Research. Mannheim, 31 March–2 April 1989. Proceedings. Congenital heart defects. Imaging procedures in cardiology. A comparison of methods and a critique of methods. Hypertension and the heart] **Z Kardiol** 1989;78 Suppl 7:1–240 (Ger)

[Detection of lymph vessel changes in venous diseases of the leg using imaging procedures] Tiedjen KU. **Z Lymphol** 1989 Dec;13(2):83–7 (26 ref.) (Eng. Abstr.) (Ger)

[Femur head necrosis. Diagnosis and morphologic analysis using roentgen, scintigraphy, computerized tomography and magnetic resonance tomography] Grimm J, et al. **Z Orthop** 1989 Nov–Dec;127(6):680–90 (Eng. Abstr.) (Ger)

[SIRMN 1990. 34th national meeting of the Italian Association of Radiologic Medicine and Nuclear Medicine. 3d Mediterranean meeting on radiology. Turin, 30 May–3 June 1990. Abstracts] **Radiol Med (Torino)** 1990 Apr;79(4 Suppl 1):1–276 (Ita)

[Image diagnosis of renal disease] Uchida H. **Nippon Jinzo Gakkai Shi** 1989 May;31(5):422–4 (Jpn)

[Diagnostic imaging in digestive pathology (editorial)] Varas Lorenzo MJ. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):593–4 (Spa)

[The new medical imaging technics] Anda S, et al. **Nord Med** 1990;105(3):70–1 (Swe)

ECONOMICS

The hidden costs of delayed access to diagnostic imaging information: impact on PACS implementation. Straub WH, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):613–6

[Blow-out fractures of the orbit (letter)] Koornneef L. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):552–3 (Dut)

[Costs in the hospital (in the diagnosis of liver and pancreatic tumors using imaging procedures)] Werner B, et al. **Rontgenblatter** 1989 Sep;42(9):410–4 (Eng. Abstr.) (Ger)

HISTORY

A commentary on the development of diagnostic imaging technology. Angus WM. **Radiographics** 1989 Nov; 9(6):1225–44

INSTRUMENTATION

High temporal resolution video imaging of intracellular calcium. Takamatsu T, et al. **Cell Calcium** 1990 Feb–Mar; 11(2–3):111–20

Imaging spatial distribution of release in single muscle fibres from Balanus nubilus using image intensification. Timmerman MP, et al. **Cell Calcium** 1990 Feb–Mar; 11(2–3):211–20

The use of video prints in digital imaging. McCloud T. **Radiogr Today** 1989 Sep;55(628):34–5

[SUNRISE—a software system for the processing and interpretation of medical image data] Staemmler M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:28–9 (Ger)

[Imaging procedures in cardiology] Riecker G. **Internist (Berl)** 1990 May;31(5):303–4 (Ger)

[Video and laser camera systems] Gerhardt P, et al. **Rontgenpraxis** 1990 Jun;43(6):200–8 (Ger)

[DNA cytometry and morphometry, based on TV image analysis, in the diagnosis of gastric carcinoma] Sugár J, et al. **Morphol Igazsagugyi Orv Sz** 1990 Jan;30(1):56–60 (Eng. Abstr.) (Hun)

[A device for processing results of graphic recording of biomedical information] Dorofeeva GD, et al. **Med Tekh** 1990 May–Jun;(3):38–9 (Rus)

METHODS

Liver tumor imaging: current concepts. Ferrucci JT. **AJR Am J Roentgenol** 1990 Sep;155(3):473–84 (70 ref.)

Imaging of chronic renal infections. Kenney PJ. **AJR Am J Roentgenol** 1990 Sep;155(3):485–94 (40 ref.)

Transitional cell carcinoma of the pelvicalices and ureter. Leder RA, et al. **AJR Am J Roentgenol** 1990 Oct; 155(4):713–22 (66 ref.)

The unsuspected double collecting system on imaging studies and at cystoscopy. Share JC, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):561–4

Imaging methods in examining the anatomy and function of the lumbar spine. Kormano M. **Ann Med** 1989 Oct; 21(5):335–40

From living being to medical image—bridging the dimensionality gap. Garden KL, et al. **Australas Phys Eng Sci Med** 1989 Dec;12(4):186–204 (133 ref.)

Perfusion imaging. Tweddel AC, et al. **Br Med Bull** 1989 Oct;45(4):896–921 (125 ref.)

Perspectives on imaging modalities. Budinger TF. **Cardiovasc Intervent Radiol** 1989 Jul–Aug;12(4):223–5

A desktop computer-based workstation for display and analysis of 3- and 4-dimensional biomedical images. Erickson BJ. **Comput Methods Programs Biomed** 1989 Oct–Nov;30(2–3):97–110

Three-dimensional medical imaging modalities: an overview. Stytz MR, et al. **Crit Rev Biomed Eng** 1990;18(1):1–25 (101 ref.)

Managing costly contrast agents. MacEwan DW, et al. **Dimens Health Serv** 1990 Mar;67(2):15–7

Rapid assessment of electrode characteristics for impedance imaging. Newell, et al. **IEEE Trans Biomed Eng** 1990 Jul; 37(7):735–8

Chrono-coherent imaging for medicine. Spears KG, et al. **IEEE Trans Biomed Eng** 1989 Dec;36(12):1210–21

Technical and biological considerations on the use of radiolabeled liposomes for diagnostic imaging. Caride VJ. **Int J Rad Appl Instrum [B]** 1990;17(1):35–9 (33 ref.)

Use of metalloporphyrins in diagnostic imaging. Fawwaz R, et al. **Int J Rad Appl Instrum [B]** 1990;17(1):65–72 (21 ref.)

Backscattered electron imaging: the role in calcified tissue and implant analysis. Bloebaum RD, et al. **J Biomater Appl** 1990 Jul;5(1):56–85 (74 ref.)

Impedance imaging in upper arm fractures. Kulkarni V, et al. **J Biomed Eng** 1990 May;12(3):219–27

Applications of three-dimensional display techniques in medical imaging. Strong AB, et al. **J Biomed Eng** 1990 May;12(3):233–8

A method for three-dimensional image reformation for quantitative cephalometric analysis. Matteson SR, et al. **J Oral Maxillofac Surg** 1989 Oct;47(10):1053–61

The quest for an image of man. Maisey MN. **Lancet** 1989 Dec 23–30;2(8678–8679):1493–500 (31 ref.)

Imaging of the breast: techniques and results. Gisvold JJ. **Mayo Clin Proc** 1990 Jan;65(1):56–66 (61 ref.)

Dynamic thermographic imaging method for quantifying dermal perfusion: potential and limitations. Wilson SB, et al. **Med Biol Eng Comput** 1989 Sep;27(5):496–501

Imaging gas detectors for medicine and biology. Lanza RC. **Med Prog Technol** 1989;15(3–4):185–98 (42 ref.)

A comparative evaluation of three methods of analyzing optic disc topography. Varma R, et al. **Ophthalmic Surg** 1989 Nov;20(11):813–9

[The value of imaging procedures in myology] Nägele M, et al. **Bildgebung** 1987–89;56(5):172–8 (Eng. Abstr.) (Ger)

[3D reconstruction of planar sectional images using a small computer] Krasny R, et al. **Rontgenpraxis** 1990 Feb; 43(2):52–6 (Ger)

[Diagnostic imaging in male reproductive medicine] Ludwig G. **Urologe [A]** 1990 May;29(3):135–40 (37 ref.) (Eng. Abstr.) (Ger)

[Diagnostic imaging of pancreatic cancer] Klöppel R, et al. **Z Gesamte Inn Med** 1989 Oct 1;44(19):580–3 (Eng. Abstr.) (Ger)

[Perinatal imaging diagnosis in twin pregnancies with humanus amorphus] Natho W, et al. **Zentralbl Gynakol** 1990;112(11):679–88 (Eng. Abstr.) (Ger)

[Contemporary methods of imaging injuries of the spine and spinal cord] Smereczyński A, et al. **Chir Narzadow Ruchu Ortop Pol** 1989;54(2):109–14 (23 ref.) (Eng. Abstr.) (Pol)

STANDARDS

Diagnostic imaging standards in New Brunswick. Brewer M, et al. **Dimens Health Serv** 1990 Mar;67(2):22–3, 35

Consensus diagnoses and "gold standards" [published erratum appears in Med Decis Making 1990 Apr–Jun;10(2):149] Begg CB, et al. **Med Decis Making** 1990 Jan–Mar;10(1):29–30

Receiver operator characteristic (ROC) analysis without truth. Henkelman RM, et al. **Med Decis Making** 1990 Jan–Mar;10(1):24–9

STATISTICS & NUMERICAL DATA

Nonparametric estimation of degenerate ROC data sets used for comparison of imaging systems. Rockette HE, et al. **Invest Radiol** 1990 Jul;25(7):835–7

[BVC (bias to variance characteristic) analysis] Matsumoto T. **Rinsho Hoshasen** 1989 Dec;34(13):1539–47 (Eng. Abstr.)

(Jpn)

TRENDS

Advances in medical imaging. Huang HK, et al. **Ann Intern Med** 1990 Feb 1;112(3):203–20 (120 ref.)
Imaging techniques: state and future. Rockstroh G. **Arch Geschwulstforsch** 1990;60(4):323–8 (19 ref.)
Modern development of imaging procedures in oncology. Rotte KH. **Arch Geschwulstforsch** 1990;60(4):317–22 (34 ref.)
Advances in cancer diagnosis. Dodd GD. **Cancer** 1990 Feb 1;65(3 Suppl):595–603
Research directions in diagnostic imaging. Maynard CD, et al. **Invest Radiol** 1990 Feb;25(2):101–8
New trend of cardiac imaging—intravenous coronary arteriography by synchrotron radiation. Sugishita Y, et al. **Jpn Circ J** 1990 Mar;54(3):339–42
[The fundamental problems and evaluation criteria for rational imaging diagnosis in oncology] Rotte KH. **Arch Geschwulstforsch** 1990;60(1):36–40 (Eng. Abstr.) (Ger)
[Diagnostic radiology—development and aspects] Gerhardt P. **Rontgenpraxis** 1990 Feb;43(2):33–41 (30 ref.) (Ger)
[Medical imaging technology—future trend of its research] Iinuma T. **Nippon Rinsho** 1989 Aug;47(8):1865–71 (9 ref.) (Jpn)
[Recent progress of neuro-imaging for the diagnosis of cerebrovascular disease and dementia] Torizuka K. **Rinsho Hoshasen** 1989 Oct;34(11):1355–7 (Jpn)
[Pathophysiology of dementia and medical imaging] Yonekura Y. **Rinsho Hoshasen** 1989 Oct;34(11):1349–53 (Eng. Abstr.) (Jpn)
[New trends in image diagnosis of rheumatoid spondylitis] Hukuda S. **Ryumachi** 1989 Oct;29(5):385–91 (15 ref.) (Jpn)

UTILIZATION

Clinical activities of pediatric radiologists in the United States and Canada: 10-year follow-up. Forman HP, et al. **Radiology** 1990 Apr;175(1):127–9
[Dutch radiodiagnosis from an international viewpoint] de Valois JC. **Ned Tijdschr Geneeskd** 1990 Jun 2; 134(22):1097–101 (Eng. Abstr.) (Dut)

DIAGNOSTIC REAGENT KITS see **REAGENT KITS, DIAGNOSTIC**

DIAGNOSTIC RELATED GROUPS

Physicians' patient load per DRG, the consumption of hospital resources, and the incentives of the DRG prospective payment system. Munoz E, et al. **Acad Med** 1990 Aug;65(8):533–8
Technologic innovation and care of elderly patients with cardiovascular disease: how will the diagnosis-related group system respond? Hlatky MA, et al. **Am J Med** 1990 Jan;88(1N):1N–2N
Choices of new penicillins and cephalosporins in the DRG era. Rahal JJ. **Curr Clin Top Infect Dis** 1988;9:173–84 (39 ref.)
Prospective payment experience with DRGs in headache patients. Sands GH, et al. **Headache** 1990 Feb;30(3):157–9
DRG coding for nutrition reimbursement: references to table [letter] Myers M. **J Am Diet Assoc** 1989 Nov;89(11):1588
The missing link: person-based quality assessment [editorial] Dittas RS, et al. **J Gen Intern Med** 1989 Sep–Oct; 4(5):459–60
Impact of prospective payment and discharge location on the outcome of hip fracture. Gerety MB, et al. **J Gen Intern Med** 1989 Sep–Oct;4(5):388–91
Retrenchment or realignment? U.S. mental health policy and DRGs. Ruggie M. **J Health Polit Policy Law** 1990 Spring; 15(1):145–67
The impact of diagnosis-related groups on patient acuity, quality of care, and length of stay. Van Hoesen NS, et al. **J Nurs Adm** 1990 Sep;20(9):20–3
Pediatric patients, DRG hospital payment, and comorbidities. Munoz E, et al. **J Pediatr** 1989 Oct;115(4):545–8
Trauma patients in an Indian hospital. Dhingra N, et al. **J R Soc Health** 1990 Apr;110(2):67–9
Burn DRGs: effects of recent changes and implications for the future. Chakerian MU, et al. **J Trauma** 1990 Aug; 30(8):964–71; discussion 971–3
An all-payor prospective payment system (PPS) based on diagnosis-related-groups (DRG): financial impact on reimbursement for trauma care and approaches to minimizing loss. Joy SA, et al. **J Trauma** 1990 Jul; 30(7):866–73
Assessing workload in neonatal medicine [letter] [see comments] Chetcuti P, et al. **Lancet** 1989 Nov 18; 2(8673):1221 Comment in: Lancet 1989 Dec 9;2(8676):1397.
Diagnostic related groups in neonatal medicine [letter] Field DJ, et al. **Lancet** 1990 Jan 27;335(8683):232
Assessment of workload in neonatal medicine [letter; comment] McKee M, et al. **Lancet** 1989 Dec 9;2(8676):1397 Comment on: Lancet 1989 Nov 18;2(8673):1221.
A comparison of the effects of per case and per diem based charges on the distribution of hospital costs across employer groups. Cline KE. **Med Care** 1990 Aug; 28(8):681–702
A classification system for long-staying psychiatric patients. Fries BE, et al. **Med Care** 1990 Apr;28(4):311–23
Improving payments for Medicare patients with unrelated surgical procedures. Kominski GF, et al. **Med Care** 1990 Aug;28(8):657–71
Labelling 'unexpected' deaths on a neurology service. Shafer SQ, et al. **Neurology** 1990 Jul;40(7):1017–9
Nurses' assessment of DRGs on quality patient care. Grassi LC. **Nurs Forum** 1989;24(1):32–4
The equity of diagnostic related group "All Payor" hospital payment and gynecology diagnostic related groups [see comments] Munoz E, et al. **Obstet Gynecol** 1989 Dec; 74(6):831–7 Comment in: Obstet Gynecol 1990 May;75(5):894–5.
The equity of diagnostic related group "all payor" hospital payment and gynecology diagnostic related groups [letter; comment] Sloan D. **Obstet Gynecol** 1990 May;75(5):894–5 Comment on: Obstet Gynecol 1989 Dec;74(6):831–7.
Diagnosis-related groups: a twentieth-century nosology. Gupta GG. **Pharos** 1990 Spring;53(2):12–7
An integrated quality assurance and cost containment audit for DRG 410, admission for maintenance chemotherapy for cancer. Hanson KH Jr, et al. **Prog Clin Biol Res** 1990; 339:441–8
Evolution of DRGs and clinical information systems. Averill RF. **Soz Praventivmed** 1989;34(4):185–7
What future for Diagnosis Related Groups? [editorial] Eggli Y. **Soz Praventivmed** 1989;34(4):149–51 (Eng, Fre)
Minimal data requirements for a continuous monitoring of the quality of care using the DRG classification. Santos-Eggimann B, et al. **Soz Praventivmed** 1989; 34(4):188–91
Diagnosis-related groups, route of admission, age and outcome for general surgical patients. Muñoz E, et al. **Surg Annu** 1990;22:49–60
An immunosuppressive protocol compatible with the United States kidney transplant diagnosis related grouping. Stuart FP, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):1959–60
[Clinical and economical analysis as a basis of adjustment of hospital departments. 3. Comparison with the DRG system] Bak P. **Ugeskr Laeger** 1990 Jul 9;152(28):2041–4 (Eng. Abstr.) (Dan)
[Nomenclature and medical decision trees, a solution in the discussion about economics and quality in health care?] Raes V. **Arch Belg** 1988;46(7–8):305–17 (Eng. Abstr.) (Dut)
[Program for a medical information system at the Public Welfare Hospitals in Paris] Frutiger P, et al. **Soz Praventivmed** 1989;34(4):179–84 (Eng. Abstr.) (Fre)
[DRGs in Europe] Rodrigues JM. **Soz Praventivmed** 1989; 34(4):152–5 (Eng. Abstr.) (Fre)
[Diagnosis-specific hospital length of stay in Schleswig-Holstein] Brecht JG, et al. **Soz Praventivmed** 1989;34(5):227–30 (Eng. Abstr.) (Ger)
[Seasonal pattern of illnesses seen at the general practice offices of the Social Security] García Olmos L, et al. **Rev Sanid Hig Publica (Madr)** 1988 Sep–Dec; 62(9–12):1655–65 (Spa)

CLASSIFICATION

[DocuMed—a personal computer program system for basic documentation and ICD statistics based on SNOMED] Härle A, et al. **Z Orthop** 1989 Jul–Aug;127(4):458–62 (Eng. Abstr.) (Ger)

ECONOMICS

DRGs and the "negative" trauma workup. Flancbaum L, et al. **Ann Emerg Med** 1990 Jul;19(7):741–5
Hospital readmissions, otolaryngology, and the diagnosis related group hospital payment system. Muñoz E, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):708–13
Calculating inpatient/CMG costs using HS-1 data. Botz CK, et al. **Dimens Health Serv** 1989 Oct;66(7):18–21
Were hospitals selective in their product and productivity changes? The top 50 DRGs after PPS. Long MJ, et al. **Health Serv Res** 1989 Dec;24(5):615–41
Diagnosis-related groups, costs, and outcome for patients in the intensive care unit. Muñoz E, et al. **Heart Lung** 1989 Nov;18(6):627–33
Efficiency, costs, and quality: the New Jersey experience revisited. Broyles RW. **Inquiry** 1990 Spring;27(1):86–96
Feasibility of case-based payment for inpatient radiology, anesthesia, and pathology services. Mitchell JB, et al. **Inquiry** 1989 Winter;26(4):458–67
Optimizing radiologic costs in the DRG environment. Henschke CI, et al. **Invest Radiol** 1990 Feb;25(2):194–9
Fiscal implications of a childhood disorder DRG. Christ AE, et al. **J Am Acad Child Adolesc Psychiatry** 1989 Sep; 28(5):729–33
Changes in nutrition support services between 1984 and 1986. Compher CW, et al. **J Am Diet Assoc** 1989 Oct; 89(10):1452–7
Implications of malnutrition and diagnosis-related groups (DRGs). Delhey DM, et al. **J Am Diet Assoc** 1989 Oct; 89(10):1448–51
The impact of the diagnosis-related groups/prospective payment system on nutrition needs in home health and extended-care facilities. Sandall MJ, et al. **J Am Diet Assoc** 1989 Oct;89(10):1444–7
Case-mix payment for nursing home care: lessons from Maryland. Feder J, et al. **J Health Polit Policy Law** 1989 Fall;14(3):523–47
Inadequacy of diagnosis related group (DRG) reimbursements for limb salvage lower extremity arterial reconstructions. Ad hoc committee of the Joint Council of the Society for Vascular Surgery and the North American Chapter of the International Society for Cardiovascular Surgery. Gupta SK, et al. **J Vasc Surg** 1990 Feb;11(2):348–56; discussion 356–7
Case-mix classification for emergency departments. Cameron JM, et al. **Med Care** 1990 Feb;28(2):146–58
The impact of DRG-based budgeting on inpatient psychiatric care in Veterans Administration medical centers. Rosenheck R, et al. **Med Care** 1990 Feb;28(2):124–34
Case-mix reimbursement for nursing homes: objectives and achievements. Butler PA, et al. **Milbank Q** 1989; 67(1):103–36
The effect of the Medicare prospective payment system on the adoption of new technology. The case of cochlear implants [see comments] Kane NM, et al. **N Engl J Med** 1989 Nov 16;321(20):1378–83 Comment in: N Engl J Med 1990 May 3;322(18):1322–3.
Economies of scale, physician volume for neurosurgery patients, and the diagnosis-related group prospective hospital payment system. Munoz E, et al. **Neurosurgery** 1990 Jan;26(1):156–60; discussion 160–1
[Experiences after 2 years of the federal operating cost rate directive] Swoboda A. **Z Orthop** 1989 Jul–Aug; 127(4):451–4 (Eng. Abstr.) (Ger)
[Results of voluntary and mandatory statistics 1986/87—including a comparison with the preliminary study 1984/85. Scope of the topic: experiences after 2.5 years of the federal directive on operating cost rates of 1985] Winter T. **Z Orthop** 1989 Jul–Aug;127(4):455–7 (Eng. Abstr.) (Ger)

LEGISLATION & JURISPRUDENCE

Second-generation deinstitutionalization, I: The impact of Brewster v. Dukakis on state hospital case mix. Geller JL, et al. **Am J Psychiatry** 1990 Aug;147(8):982–7
What DRGs mean to the patient and the provider. Clifford JC. **J Geriatr Psychiatry** 1989;22(2):201–10; discussion 211–7
Quicker and sicker: how changes in Medicare affect the elderly and their families. Fischer LR, et al. **J Geriatr Psychiatry** 1989;22(2):163–91; discussion 193–200
The prospective payment system: DRGs and the frail elderly—issues, problems, and recommendations. Prohaska TR, et al. **J Geriatr Psychiatry** 1989;22(2):219–29

STANDARDS

Clinical judgment vs cookbook criteria [letter] Snare R. **J Fla Med Assoc** 1989 Jun;76(6):509
Accuracy of Medicare reimbursement for cardiac arrest. Hsia DC. **JAMA** 1990 Jul 4;264(1):59–62

STATISTICS & NUMERICAL DATA

The evolution of an acute care hospital unit to a DRG-exempt rehabilitation unit. A preliminary communication. Parfenchuck TA, et al. **Am J Phys Med Rehabil** 1990 Feb;69(1):11–5
Changes in case mix and outcomes of readmissions to nursing homes between 1980 and 1984. Lewis MA, et al. **Health Serv Res** 1990 Feb;24(6):713–28

UTILIZATION

Coping with DRGs—a nursing home's experience. Tresch DD, et al. **Am J Med Sci** 1989 Nov;298(5):309–13
Evaluation of diagnosis-related groups in the National Health Service. Sanderson HF, et al. **Community Med** 1989 Nov; 11(4):269–78
[Main results of the Swiss study on DRGs (Casemix Study)] Casemix E. **Soz Praventivmed** 1989;34(4):156–66 (40 ref.) (Eng. Abstr.) (Fre)
[Trends in the utilization of DRGs in Belgium] Closon MC. **Soz Praventivmed** 1989;34(4):167–74 (Eng. Abstr.) (Fre)
[Recommendations for the use of hospital statistics for hospital planning and management] Gutzwiller F. **Soz Praventivmed** 1989;34(4):192–6 (Eng. Abstr.) (Ger)

DIAGNOSTIC SERVICES

ECONOMICS

[Effectiveness of the use of medical diagnostic equipment at polyclinics and hospitals] Brenev VF, et al. **Vestn Khir** 1989 Nov;143(11):108–11 (Rus)

LEGISLATION & JURISPRUDENCE

Investment regulations should govern diagnostic imaging centers [letter] Kagan RL. **J Fla Med Assoc** 1990 Apr; 77(4):434–5

ORGANIZATION & ADMINISTRATION

A diagnostic centre for general practitioners: results of individual feedback on diagnostic actions. Pop P, et al. **J R Coll Gen Pract** 1989 Dec;39(329):507–8
A DNA diagnostic service. Beresford CH, et al. **N Z Med J** 1990 Mar 14;103(885):101–2
[A study on the organization and management of pulmonary tuberculosis case-finding at district general hospitals] Ma ZL. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Dec;

12(6):326–8, 380 (Eng. Abstr.) (Chi)
[The "diagnostic day hospital." A proposal for functional support by hospital services and primary care] Triulzi M, et al. **Ann Ig** 1989 Jan–Apr;1(1–2):255–65 (Eng. Abstr.) (Ita)
[The role of the consultation–diagnostic centers in rendering therapeutic services in Moscow] Kudriavtsev IuN, et al. **Sov Med** 1989;(10):51–4 (Rus)
[The consultative diagnostic center. The endoscopy department (the potentials and limitations)] Kuz'min AI, et al. **Ter Arkh** 1990;62(1):14–7 (Rus)

STANDARDS

Regional evaluation of DNA diagnostic laboratories [letter] Matteson KJ, et al. **Am J Hum Genet** 1990 Jan;46(1):182–3

SUPPLY & DISTRIBUTION

[Complementary examination or systematic examination? Or the art of prescribing in cardiology] Grosgogeat Y. **Presse Med** 1990 Jan 20;19(2):55–7 (Fre)

UTILIZATION

Substituting diagnostic services [letter; comment] **JAMA** 1990 Apr 4;263(13):1767–8 Comment on: JAMA 1989 Sep 1;262(9):1196–200.
The ethics of "unnecessary testing" [editorial] Irwin AE. **Ophthalmic Surg** 1989 Oct;20(10):694
[The rational utilization of the potentials of a department of clinical chemistry in a diagnostic center] Titov VN. **Ter Arkh** 1990;62(1):18–21 (Rus)

DIAGNOSTIC TESTS, ROUTINE

Optimal collaboration between the vascular diagnostic laboratory (VDL) and the surgeon. Stranden E. **Acta Chir Scand Suppl** 1990;555:11–6
The low yield of physical examinations and laboratory investigations of patients with chronic fatigue. Lane TJ, et al. **Am J Med Sci** 1990 May;299(5):313–8
The case for routine umbilical blood acid–base studies at delivery. Johnson JW, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):621–5
Should hemoglobin–hematocrit be routinely measured in children undergoing minor surgery? [letter] Mayhew JF, et al. **Anesthesiology** 1990 Jun;72(6):1100
Routine chest radiographs in exacerbations of chronic obstructive pulmonary disease. Diagnostic value. Sherman S, et al. **Arch Intern Med** 1989 Nov;149(11):2493–6
The preoperative chest X-ray. Kerr IH. **Br J Anaesth** 1974 Aug;46(8):558–63 (22 ref.)
Benefits and problems of routine laboratory investigations in adult psychiatric admissions. White AJ, et al. **Br J Psychiatry** 1989 Jul;155:65–72
Determination of near-optimum use of hospital diagnostic resources using the "GENES" genetic algorithm shell. Bickel AS, et al. **Comput Biol Med** 1990;20(1):1–13
Usefulness of a standard battery of laboratory tests in investigating chronic fatigue in adults. Valdini A, et al. **Fam Pract** 1989 Dec;6(4):286–91
A medical algorithm for detecting physical disease in psychiatric patients. Sox HC Jr, et al. **Hosp Community Psychiatry** 1989 Dec;40(12):1270–6
The impact of routine chest radiography on the management of patients admitted from an emergency service. White CS, et al. **Invest Radiol** 1990 Jun;25(6):720–3
Following concomitant problems. Perry R. **Iowa Med** 1990 Apr;80(4):209
Preoperative prediction of postoperative complications [see comments] Oguz M, et al. **Isr J Med Sci** 1990 Mar;26(3):147–9 Comment in: Isr J Med Sci 1990 Mar;26(3):123–4.
Are laboratory studies necessary for griseofulvin therapy? Sherertz EF. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1103
Preoperative ECG—a must [letter] Chaturvedi A, et al. **J Assoc Physicians India** 1989 Sep;37(9):613
Hemocult testing should be done routinely, not abandoned: reply to Dr. Longstreth [letter; comment] Varner AA. **J Clin Gastroenterol** 1989 Oct;11(5):605 Comment on: J Clin Gastroenterol 1988 Apr;10(2):133–4.
Is there any justification for the routine examination of bowel resection margins in colorectal adenocarcinoma? Cross SS, et al. **J Clin Pathol** 1989 Oct;42(10):1040–2
Should ultrasound be used routinely during pregnancy? An opposing view. Ewigman BG. **J Fam Pract** 1989 Dec; 29(6):660–4 (49 ref.)
Should ultrasound be used routinely during pregnancy? An affirmative view [see comments] Youngblood JP. **J Fam Pract** 1989 Dec;29(6):657–60 (17 ref.) Comment in: J Fam Pract 1990 Apr;30(4):393–4.
ACP/BCBS guidelines for common diagnostic tests [letter] Goodspeed RB. **J Gen Intern Med** 1990 May–Jun;5(3):271
Using clinical data to predict abnormal serum electrolytes and blood cell profiles. Tierney WM, et al. **J Gen Intern Med** 1989 Sep–Oct;4(5):375–83
The impact of routine preoperative chest X-ray in Srinagarind Hospital, Khon Kaen. Bhuripanyo K, et al. **J Med Assoc Thai** 1990 Jan;73(1):21–8
Value of repeat cytology at the time of colposcopy for the evaluation of cervical intraepithelial neoplasia on Papanicolaou smears. Wheelock JB, et al. **J Reprod Med** 1989 Oct;34(10):815–7
Viewpoint '89 examining examinations: pre-employment medical examinations. Duncan KP. **J Soc Occup Med** 1989 Winter;39(4):152–3
Routine diagnostic testing [editorial] [see comments] **Lancet** 1989 Nov 18;2(8673):1190–1 Comment in: Lancet 1989 Dec 23–30;2(8678–8679):1528–9. Comment in: Lancet 1990 Jan 27;335(8683):232.
Blood tests before elective surgery on patients who cannot communicate [news] Brahams D. **Lancet** 1990 Jun 9; 335(8702):1394
Reevaluation of the utility of mean cell hemoglobin (MCH) screening in infants for iron deficiency. Archambeaud-Breton MP, et al. **Nouv Rev Fr Hematol** 1989;31(4):307–9
Routine cholesterol surveillance in childhood [letter; comment] Feldman W. **Pediatrics** 1990 Jul;86(1):150–1 Comment on: Pediatrics 1989 Nov;84(5):751–5.
Yield of the admission complete blood count in medical inpatients. Mozes B, et al. **Postgrad Med J** 1989 Aug; 65(766):525–7
[Teenage pregnancy and routine colposcopy] de Villiers VP. **S Afr Med J** 1989 Dec 16;76(12):668–9 (23 ref.) (Eng. Abstr.) (Afr)
[Routine echography in obstetrics? (letter)] Heringa MP. **Ned Tijdschr Geneeskd** 1989 Sep 30;133(39):1949–50 (Dut)
[Routine echography in obstetrics? (letter)] Huisjes AJ, et al. **Ned Tijdschr Geneeskd** 1989 Nov 4;133(44):2197–8 (Dut)
[Once again, the routine preoperative thorax photo] Lamers RJ, et al. **Ned Tijdschr Geneeskd** 1989 Nov 18; 133(46):2288–91 (Eng. Abstr.) (Dut)
[Laboratory findings for the preoperative evaluation of patients with otherwise no organic disorders] Pfaff A, et al. **Ned Tijdschr Geneeskd** 1989 Nov 18;133(46):2291–3 (Eng. Abstr.) (Dut)
[An end to routine urea determinations] van Rijn HJ, et al. **Ned Tijdschr Geneeskd** 1990 Jun 16;134(24):1177–9 (Eng. Abstr.) (Dut)
[Laboratory findings for the preoperative assessment of patients with otherwise no organic disorders (letter)] Wieling W. **Ned Tijdschr Geneeskd** 1990 Jan 27;134(4):181 (Dut)
[Preoperative evaluation in urology. A reassessment] Fourcade RO. **Ann Urol (Paris)** 1989;23(5):422–5 (Eng. Abstr.) (Fre)
[Value of routine biological tests in the etiologic diagnosis of hypercalcemia. Value of discriminant analysis] Cadene C, et al. **Rev Rhum Mal Osteoartic** 1990 Mar;57(3):181–4 (Fre)
[Routine preoperative diagnosis of blood coagulation?] Kuss E. **Geburtshilfe Frauenheilkd** 1990 Jun;50(6):499–501 (Ger)
[Preoperative risk assessment of cancer patients] Mitterschiffthaler G, et al. **Gynakol Rundsch** 1989;29 Suppl 2:404–7 (Ger)
[Assessment of nutritional status—a part of routine clinical diagnosis: cholinesterase activity as a nutritional indicator] Ollenschläger G, et al. **Klin Wochenschr** 1989 Nov 3; 67(21):1101–7 (Eng. Abstr.) (Ger)
[ECG and roentgen image of the thorax—obligatory measures in every internal examination?] Conen D. **Verh Dtsch Ges Inn Med** 1989;95:142–7 (21 ref.) (Ger)
[Superfluous diagnosis in pneumology] Nolte D. **Verh Dtsch Ges Inn Med** 1989;95:153–60 (Ger)
[Essential and superfluous tests in the diagnosis of acute appendicitis] Schwerk WB. **Verh Dtsch Ges Inn Med** 1989; 95:193–7 (Ger)
[Superfluous diagnosis in rheumatology] Wagenhäuser FJ. **Verh Dtsch Ges Inn Med** 1989;95:176–93 (4 ref.) (Ger)
[Expectations between the clinic and the clinical laboratory] Schmidt LH. **Z Gesamte Inn Med** 1989 Sep 1;44(17):501–4 (7 ref.) (Eng. Abstr.) (Ger)
[Evaluation of preoperative admission and anesthesia consultation in surgery] Rohde M, et al. **Zentralbl Chir** 1990;115(6):353–8 (Eng. Abstr.) (Ger)
[Clinical evaluation of the stool culture in acute diarrhea] Navarro González J, et al. **An Esp Pediatr** 1989 Jun; 30(6):457–62 (Eng. Abstr.) (Spa)
[Critical analysis of the routine use of the direct antiglobulin test in 22,517 cross-matching tests] López J, et al. **Sangre (Barc)** 1990 Feb;35(1):15–7 (Eng. Abstr.) (Spa)

ECONOMICS

The adequacy and cost effectiveness of routine resuscitation-area cervical-spine radiographs. Spain DA, et al. **Ann Emerg Med** 1990 Mar;19(3):276–8
Localization of parathyroid lesions: blind study for surgeons. Vázquez Quintana E, et al. **Boi Asoc Med P R** 1989 Sep; 81(9):342–4
Prevalence of surreptitious laxative abuse in patients with diarrhoea of uncertain origin: a cost benefit analysis of a screening procedure. Bytzer P, et al. **Gut** 1989 Oct; 30(10):1379–84
ACP guidelines for common diagnostic tests and the practicing internist. Alper PR. **J Gen Intern Med** 1989 Nov–Dec;4(6):548–50
Guidelines for medical practice: necessary but not sufficient. Sox HC Jr. **J Gen Intern Med** 1989 Nov–Dec;4(6):551–2
Routine predelivery coagulation screening in previous cesarean patients: impact on patient management. Sakala EP, et al. **J Perinatol** 1989 Dec;9(4):386–7
Necessity for routine obstetric screening for hepatitis B surface antigen. Greenspoon JS, et al. **J Reprod Med** 1989 Sep;34(9):655–8 (27 ref.)
Routine postcesarean urine culture. A cost-effectiveness analysis. Sakala EP, et al. **J Reprod Med** 1990 Apr; 35(4):373–4
Controlling the hemorrhage of routine coagulation tests [letter; comment] Fox GN. **JAMA** 1990 May 23–30; 263(20):2749–50 Comment on: JAMA 1989 Nov 3;262(17):2428–32.
Ways to assess test costs vary [news] Goldsmith MF. **JAMA** 1990 Apr 4;263(13):1750
Routine diagnostic testing [letter; comment] Cameron JD. **Lancet** 1990 Feb 3;335(8684):297 Comment on: Lancet 1989 Dec 23–30;2(8678–8679):1528–9.
Routine diagnostic testing [letter; comment] Dowling PT. **Lancet** 1990 Jan 27;335(8683):232 Comment on: Lancet 1989 Nov 18;2(8673):1190–1.
Changing physicians' behavior. The pot and the kettle [editorial; comment] Goldman L. **N Engl J Med** 1990 May 24;322(21):1524–5 Comment on: N Engl J Med 1990 May 24;322(21):1499–504.
The effect on test ordering of informing physicians of the charges for outpatient diagnostic tests [see comments] Tierney WM, et al. **N Engl J Med** 1990 May 24; 322(21):1499–504 Comment in: N Engl J Med 1990 May 24;322(21):1524–5.
[Clinical and economic analysis as an aid in adjustment of hospital departments. 1. Method] Bak P. **Ugeskr Laeger** 1990 Jul 9;152(28):2032–7 (Eng. Abstr.) (Dan)
[The value of preoperative studies (letter)] van Vugt PJ. **Ned Tijdschr Geneeskd** 1990 Jun 23;134(25):1234–5 (Dut)

METHODS

Value of screening thyroid function in acute medical admissions to hospital. Small M, et al. **Clin Endocrinol (Oxf)** 1990 Feb;32(2):185–91
Effective measures for reducing blood loss from diagnostic laboratory tests in intensive care unit patients. Foulke GE, et al. **Crit Care Med** 1989 Nov;17(11):1143–5
The erythrocyte sedimentation rate compared to plasma viscosity measurement as a routine laboratory test [letter] Shand BI. **N Z Med J** 1990 Aug 8;103(895):379
Diagnostic and therapeutic techniques. For evaluation and treatment of skin disorders. Pariser DM. **Prim Care** 1989 Sep;16(3):823–45 (8 ref.)
[Clinical-chemical testing on admission to Odense Hospital] Lund-Olesen L, et al. **Ugeskr Laeger** 1990 Apr 23; 152(17):1238–40 (Eng. Abstr.) (Dan)
[Routine diagnostic tests in muscular diseases] Vila A, et al. **Ann Fr Anesth Reanim** 1989;8(5):406–10 (Eng. Abstr.) (Fre)
[Serological evaluation of human T lymphotropic virus type-I infection in routine hospital samples, especially using serodia.HTLV-I] Kamihira S, et al. **Rinsho Byori** 1990 Jul; 38(7):783–8 (Eng. Abstr.) (Jpn)

STANDARDS

Evaluating diagnostic tests with imperfect standards. Valenstein PN. **Am J Clin Pathol** 1990 Feb;93(2):252–8 (43 ref.)
Evaluation of new test (Phadiatop) for the screening of respiratory allergic disorders in children. Cantani A, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):158–61
The value of routine admission chest radiographs in adult asthmatics. Aronson S, et al. **Ann Emerg Med** 1989 Nov; 18(11):1206–8
Doctors' requirements for reproducibility of diagnostic information. Gjørup T, et al. **Invest Radiol** 1990 Jan; 25(1):39–40
Who defines the medical requirements of analytical tests? Guder WG, et al. **J Clin Chem Clin Biochem** 1990 Mar; 28(3):125–8
Blue Cross and Blue Shield Association's perspective on the common diagnostic testing guidelines. Tennenbaum D. **J Gen Intern Med** 1989 Nov–Dec;4(6):553–4
Practice guidelines to reduce testing in the hospital. Wachtel TJ, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):335–41
Routine diagnostic testing [letter] [published erratum appears in Lancet 1990 Feb 3;335(8684):302] [comment] [see comments] **Lancet** 1989 Dec 23–30;2(8678–8679):1528–9 Comment on: Lancet 1989 Nov 18;2(8673):1190–1. Comment in: Lancet 1990 Feb 3;335(8684):297.

TRENDS

[Superfluous clinico-chemical studies, a contribution to rational clinico-chemical diagnosis] Greiling H. **Verh Dtsch Ges Inn Med** 1989;95:147–51 (Ger)

UTILIZATION

Medical technologies: restraint or discretion? [editorial; comment] Larson EB. **J Gen Intern Med** 1990 Mar–Apr; 5(2):178–9 Comment on: J Gen Intern Med 1990 Mar–Apr;5(2):95–100. Comment on: J Gen Intern Med 1990 Mar–Apr;5(2):104–9. Comment on: J Gen Intern Med 1990 Mar–Apr;5(2):110–4.
Routine use of the prothrombin and partial thromboplastin times [see comments] Erban SB, et al. **JAMA** 1989 Nov 3;262(17):2428–32 Comment in: JAMA 1990 May 23–30;263(20):2749–50.

Should all pregnant women be offered an ultrasound examination? [see comments] de Crespigny LC, et al. **Med J Aust** 1989 Dec 4–18;151(11–12):613–5 Comment in: Med J Aust 1990 May 21;152(10):557.

Routine admission urinalysis examination in pediatric patients: a poor value. Mitchell N, et al. **Pediatrics** 1990 Sep;86(3):345–9

DIALYSIS

Intradialytic variations in hemoglobin affinity for oxygen during bicarbonate dialysis and hemodiafiltration [letter] Soliani F, et al. **Int J Artif Organs** 1990 May;13(5):321–2

Preloading in vivo: a rapid and reliable method for measuring gamma-aminobutyric acid and glutamate fluxes by microdialysis. Young AM, et al. **J Neurochem** 1990 Sep; 55(3):1060–3

Intracerebral microdialysis: II. Mathematical studies of diffusion kinetics. Amberg G, et al. **J Pharmacol Methods** 1989 Nov;22(3):157–83

Intracerebral microdialysis: I. Experimental studies of diffusion kinetics. Lindefors N, et al. **J Pharmacol Methods** 1989 Nov;22(3):141–56

Steady-state theory for quantitative microdialysis of solutes and water in vivo and in vitro. Bungay PM, et al. **Life Sci** 1990;46(2):105–19

Characterization of gamma-aminobutyric acid and dopamine overflow following acute implantation of a microdialysis probe. Drew KL, et al. **Life Sci** 1989;45(14):1307–17

Repeated oral administration of activated charcoal for treating aspirin overdose in young children. Vertrees JE, et al. **Pediatrics** 1990 Apr;85(4):594–8

Microdialysis of subcutaneous adipose tissue in vivo for continuous glucose monitoring in man. Bolinder J, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):465–74

[The removability of pesticides during the production of dialysis water (2)] Becker FF, et al. **Biomed Tech (Berlin)** 1989 Sep;34(9):215–20 (Eng. Abstr.) **(Ger)**

[Use of dialysis and related procedures in edematous diseases and lung failure without renal failure] Loew H. **Verh Dtsch Ges Inn Med** 1989;95:226–32 (8 ref.) **(Ger)**

[Computer-assisted information processing in nephrology exemplified by the Nephrology/Dialysis Data System (DSND). 1.] Tredt HJ, et al. **Z Urol Nephrol** 1990 May; 83(5):267–73 (Eng. Abstr.) **(Ger)**

[Cardiac surgery in chronic dialysis patients: usefulness of continuous ambulatory peritoneal dialysis (CAPD)] Kitamura M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Dec;37(12):2507–12 (Eng. Abstr.) **(Jpn)**

[Prevalence of anti-HIV antibodies in dialysis patients] Romão Júnior JE, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Mar–Apr; 44(2):80–3 (Eng. Abstr.) **(Por)**

ADVERSE EFFECTS

Destructive spondyloarthropathy in longterm CAPD and hemodialysis [letter; comment] Cruz A, et al. **J Rheumatol** 1989 Aug;16(8):1169–70 Comment on: J Rheumatol 1988 Apr;15(4):644–7.

INSTRUMENTATION

Particles from dialysis tubing stimulate interleukin-1 secretion by macrophages. Bommer J, et al. **Nephrol Dial Transplant** 1990;5(3):208–13

Serum angiotensin-converting enzyme as a marker of dialyzer membrane biocompatibility? Krämer BK, et al. **Nephron** 1989;53(2):162–3

Assessment of damage from implantation of microdialysis probes in the rat hippocampus with silver degeneration staining. Shuaib A, et al. **Neurosci Lett** 1990 May 4; 112(2–3):149–54

METHODS

Measurements of serum-free thyroid hormone concentrations by ultrafiltration—a comparison with equilibrium dialysis and mathematical calculation. Konno N, et al. **Ann Nucl Med** 1987 Sep;1(1):15–22

Glucocorticoids suppress levels of immunoreactive bradykinin in inflamed tissue as evaluated by microdialysis probes. Hargreaves KM, et al. **Clin Pharmacol Ther** 1990 Aug;48(2):168–78

Microdialysis—a novel technique for clinical investigations. Lönnroth P, et al. **J Intern Med** 1990 May;227(5):295–300 (28 ref.)

A new enzymatic cycling technique for glutamate determination in brain microdialysates. Mitani A, et al. **J Neurochem** 1990 Feb;54(2):709–11

Use of microdialysis for monitoring tyrosine hydroxylase activity in the brain of conscious rats. Westerink BH, et al. **J Neurochem** 1990 Feb;54(2):381–7

Jejunal dialysis in man using mannitol as the perfusate. Newstead CG. **Nephrol Dial Transplant** 1989;4(7):658–61

A dual-pipette technique that permits rapid internal dialysis and membrane potential measurement in voltage-clamped cardiomyocytes. Shuba YM, et al. **Pflugers Arch** 1990 Mar; 415(6):767–73

[Brain dialysis technique and its application in neurochemical studies] Wang CF, et al. **Sheng Li Ke Hsueh Chin Chan** 1990 Jan;21(1):49–53 (37 ref.) **(Chi)**

[Mexiletine in terminal renal failure and various dialysis procedures] Evers J, et al. **Klin Wochenschr** 1989 Oct 2; 67(19):995–8 (Eng. Abstr.) **(Ger)**

TRENDS

[The development of nephrology and dialysis in the past 40 years] Precht K. **Z Urol Nephrol** 1989 Oct;82(10):503–6 (Eng. Abstr.) **(Ger)**

DIALYSIS, EXTRACORPOREAL see HEMODIALYSIS

DIALYSIS SOLUTIONS

see related

PERITONEAL DIALYSIS

Sterile and pyrogen-free bicarbonate dialysate: a necessity for hemodialysis today. Mion CM, et al. **Adv Nephrol** 1990; 19:275–314 (152 ref.)

Epidemiology of symptomatic hypotension in hemodialysis: is cool dialysate beneficial for all patients? Orofino L, et al. **Am J Nephrol** 1990;10(3):177–80

In vitro bactericidal activities of gentamicin, cefazolin, and imipenem in peritoneal dialysis fluids. Halstead DC, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1553–6

Kinetic modeling of intradialytic and interdialytic pH shifts during and after acetate and bicarbonate hemodialysis. Monti JP, et al. **Artif Organs** 1990 Jun;14(3):191–5

An economical new process for incenter bicarbonate dialysate production: comparison with acetate in a large dialysis population. Oettinger CW, et al. **Artif Organs** 1989 Oct;13(5):432–7

Acetate-free biofiltration: a viable alternative to bicarbonate dialysis. Santoro A, et al. **Artif Organs** 1989 Oct;13(5):476–9

Partial substitution of sodium lactate for sodium acetate in the bath fluid for hemodialysis. Torrente J, et al. **Artif Organs** 1990 Feb;14(1):2–6

Effect of varying dialysate bicarbonate concentration on serum phosphate. Kobrin SM, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):423–5

Rapid infusion of HCl during citrate dialysis to counteract alkalosis [letter] McDonald BR, et al. **Clin Nephrol** 1990 May;33(5):255–6

L-lactate for high-efficiency hemodialysis: feasibility studies and a randomized comparison with acetate and bicarbonate. Dalal SP, et al. **Int J Artif Organs** 1989 Oct;12(10):611–7

Long-term increase in peritoneal membrane transport rates following incidental intraperitoneal sodium hypochlorite infusion. Dedhia NM, et al. **Int J Artif Organs** 1989 Nov; 12(11):711–4

Metabolic CO2 removal by dialysis: THAM vs NaOH infusion. Gille JP, et al. **Int J Artif Organs** 1989 Nov; 12(11):720–7

Intradialytic variations in hemoglobin affinity for oxygen during bicarbonate dialysis and hemodiafiltration [letter] Soliani F, et al. **Int J Artif Organs** 1990 May;13(5):321–2

Stability of fosfomycin and quinolones in peritoneal dialysis solution [letter] Quentin C, et al. **J Antimicrob Chemother** 1990 May;25(5):878–80

Epidemic hypotension in a dialysis center caused by sodium azide. Gordon SM, et al. **Kidney Int** 1990 Jan;37(1):110–5

Jejunal dialysis in man using mannitol as the perfusate. Newstead CG. **Nephrol Dial Transplant** 1989;4(7):658–61

Increased plasma levels of human atrial natriuretic factor in patients treated with acetate or bicarbonate hemodialysis [letter] Manno C, et al. **Nephron** 1989;53(3):290

Effects of cool dialysate in dialysis-related symptoms [letter] Marcen R, et al. **Nephron** 1990;54(4):356–7

[Which is the best peritoneal dialysis solution?] Rottembourg J. **Nephrologie** 1989;10 Suppl:34–8 (Eng. Abstr.) **(Fre)**

[High-efficiency membranes and the dialysis solution] Agliata S, et al. **Minerva Urol Nefrol** 1990 Jan–Mar; 42(1):39–42 (Eng. Abstr.) **(Ita)**

[Biofiltration without buffering substances in the dialysate] Quarello F, et al. **Minerva Urol Nefrol** 1990 Jan–Mar; 42(1):43–6 (Eng. Abstr.) **(Ita)**

[Sorption unit for regeneration of dialysis solution in artificial kidney] Savrikov EV, et al. **Med Tekh** 1989 Nov–Dec; (6):15–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Does aluminium have a pathogenic role in dialysis associated arthropathy? Netter P, et al. **Ann Rheum Dis** 1990 Aug; 49(8):573–5 (52 ref.)

Peritoneal dialysis fluid induces change of mononuclear phagocyte proportions. Bos HJ, et al. **Kidney Int** 1989 Jul; 36(1):20–6

[Error of dialysis concentrate: a cause of severe metabolic acidosis not detected by certain generators] Cao Huu T, et al. **Nephrologie** 1990;11(2):91–4 (Eng. Abstr.) **(Fre)**

[The role of aluminum in the development of osteomalacia in patients on chronic hemodialysis] Adamiec R, et al. **Pol Arch Med Wewn** 1988 Jan;79(1):3–12 (Eng. Abstr.) **(Pol)**

ANALYSIS

Endotoxin size in hemodialysis solutions: modifications in presence of concentrated salt solutions and bacterial products. Goury V, et al. **Adv Exp Med Biol** 1990;256:685–9

Stability of cefotaxime in two peritoneal dialysis solutions. Paap CM, et al. **Am J Hosp Pharm** 1990 Jan;47(1):147–50

Visual compatibility of vancomycin and heparin in peritoneal dialysis solutions. Strong DK, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1832–3

High fluoride exposure in hemodialysis patients. Bello VA, et al. **Am J Kidney Dis** 1990 Apr;15(4):320–4

Microbial and endotoxin contamination in water and dialysate in the central United States. Klein E, et al. **Artif Organs** 1990 Apr;14(2):85–94

Ultrafiltration of dialysis fluid for hemodialysis. Bambauer R, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):516–9

Dialysate contamination and back filtration may limit the use of high-flux dialysis membranes. Baurmeister U, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):519–22

Detection of bacteria in dialysate and its antibody in long-term hemodialysis patients. Yamagami S, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):331–3

Isolation, identification, and analysis of 4-acetylaminophenol-glucuronide in body fluids of dialyzed renal patients; a molecular mass marker for peritoneal diffusive transport. Schoots AC, et al. **Clin Chim Acta** 1990 Apr 13;188(1):15–29

Aluminum concentrations in serum, dialysate, urine and bone among patients undergoing continuous ambulatory peritoneal dialysis (CAPD). Joffe P, et al. **Clin Nephrol** 1989 Sep;32(3):133–8

Clearance from dialysate and equilibration of intraperitoneal vancomycin in continuous ambulatory peritoneal dialysis. Neal D, et al. **Clin Pharmacokinet** 1990 Jun;18(6):485–90

Endotoxin and bacterial contamination of dialysis center water and dialysate; a cross sectional survey. Harding GB, et al. **Int J Artif Organs** 1990 Jan;13(1):39–43

Failure of deferoxamine to improve iron overload in chronic hemodialysis patients. Roxe DM, et al. **Int J Artif Organs** 1990 Apr;13(4):211–7

Usefulness of light microscopic and Cytur test estimation of peritoneal dialysate in early diagnosis of peritonitis. Sułowicz W. **Int Urol Nephrol** 1990;22(2):189–97

Influence of storage conditions on aluminum concentrations in serum, dialysis fluid, urine, and tap water. Wilhelm M, et al. **J Anal Toxicol** 1990 Jul–Aug;14(4):206–10

Plasma and dialysate levels of pefloxacin and its metabolites in CAPD patients with peritonitis. Rose TF, et al. **J Antimicrob Chemother** 1990 Apr;25(4):657–64

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate. Maloney JA, et al. **J Chromatogr** 1990 Apr 6;526(2):487–96

[Reducing chloramines in drinking water] Becker FF, et al. **Biomed Tech (Berlin)** 1989 Nov;34(11):280–8 (Eng. Abstr.) **(Ger)**

[Hypermagnesemia in hemodialysis due to excessive concentration of the element in the dialysate] Switlik I, et al. **Wiad Lek** 1990 Mar 1–15;43(5–6):227–31 (8 ref.) (Eng. Abstr.) **(Pol)**

PHARMACOKINETICS

A new method of determining the solute permeability of hollow-fiber dialysis membranes by means of laser lights traveling along optic fibers. Ohmura T, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):601–3

Acetate-free biofiltration: hemodiafiltration with base-free dialysate. Zucchelli P, et al. **Blood Purif** 1990;8(1):14–22

PHARMACOLOGY

Effects of bicarbonate-containing versus lactate-containing peritoneal dialysis solutions on superoxide production by human neutrophils. Manahan FJ, et al. **Artif Organs** 1989 Dec;13(6):495–7

Dual effect of a protein-free hemodialysate on the oxygen uptake of phagocytosing human polymorphonuclear leucocytes. Dri P, et al. **Arzneimittelforschung** 1989 Dec; 39(12):1565–7

Superoxide generation by neutrophils after exposure to a conventional peritoneal dialysis solution for different time periods. Gupta DK, et al. **Int J Artif Organs** 1990 Apr; 13(4):228–30

Long-term effects of calcium carbonate and 2.5 mEq/liter calcium dialysate on mineral metabolism. Slatopolsky E, et al. **Kidney Int** 1989 Nov;36(5):897–903

Serum magnesium and nerve conduction velocity in uraemic patients on chronic haemodialysis. Cisari C, et al. **Magnes Res** 1989 Dec;2(4):267–9

Magnesium status in chronically haemodialyzed patients: the role of dialysate magnesium concentration. Gonella M, et al. **Magnes Res** 1989 Dec;2(4):259–65 (68 ref.)

A longitudinal study of the effects of amino acid-based CAPD fluid on amino acid retention and protein losses. Young GA, et al. **Nephrol Dial Transplant** 1989;4(10):900–5

The influence of the geometry of the dialyzer and the composition of the dialysate in activating the complement system. Miranda VM, et al. **Nephron** 1990;54(1):26–31

[Effect of electrolytes, components of peritoneal dialysis fluid, on the stability of glucose] Trzeciak M, et al. **Acta Pol Pharm** 1989;46(2):174–8 (Eng. Abstr.) **(Pol)**

[Effect of hemodialysate and its peptide fractions on stromal cells and heme synthesis in bone marrow culture and the activity of selected enzymes and GSH level of human erythrocytes. I. Effect on LDH activity in healthy persons and patients with terminal renal failure] Smoleński O. **Przegl Lek** 1989;46(10):723–7 (Eng. Abstr.) **(Pol)**

[Effect of hemodialysate and its peptide fragments on stromal cells and heme synthesis in bone marrow culture and the activity of selected enzymes and GSH in human

erythrocytes. II. Effect on heme synthesis by the erythroid cells of the human bone marrow in vitro] Smoleński O. **Przegl Lek** 1989;46(8):648–53 (Eng. Abstr.) **(Pol)**

[Effect of hemodialysate and its peptide fragments on stromal cells and heme synthesis in bone marrow culture and the activity of selected enzymes and GSH level in human erythrocytes. III. Effect on G-6-PD in erythrocytes of healthy persons and those with terminal renal failure] Smoleński O. **Przegl Lek** 1989;46(9):690–4 (Eng. Abstr.) **(Pol)**

POISONING

Aluminium encephalopathy: clinical and immunological features. Garrett PJ, et al. **Q J Med** 1988 Oct; 68(258):775–83

THERAPEUTIC USE

Effect of dialysate composition on the lipid response to L-carnitine supplementation. Zilleruelo G, et al. **Kidney Int Suppl** 1989 Nov;27:S259–63

[Clinical evaluation of 2 years of hemodiafiltration using bicarbonate] Petracca EG, et al. **Clin Ter** 1990 May 15; 133(3):165–71 (Eng. Abstr.) **(Ita)**

TOXICITY

[Effect of hemodialysate and its peptide fractions on stromal cells and heme synthesis in bone marrow culture and the activity of selected enzymes and GSH level in human erythrocytes. I. Effect on human bone marrow stromal cells in vitro] Smoleński O. **Przegl Lek** 1989;46(8):641–7 (Eng. Abstr.) **(Pol)**

DIAMANTANE see **ADAMANTANE**

DIAMFENETIDE see under **ACETANILIDES**

DIAMIDE see under **AZO COMPOUNDS**

DIAMINE OXIDASE see **HISTAMINASE**

DIAMINES

Chemistry on solid supports: defining events and titers by use of cleavable, assayable linking molecules. Marburg S, et al. **Anal Biochem** 1989 Sep;181(2):242–9

Oriented immobilization of periodate-oxidized monoclonal antibodies on amino and hydrazide derivatives of Eupergit C. Fleminger G, et al. **Appl Biochem Biotechnol** 1990 Feb; 23(2):123–37

Diamines and aminoalcohols: neutral solvents for native collagen. Davison PF. **Connect Tissue Res** 1990; 24(2):129–41

CHEMICAL SYNTHESIS

Potential histamine H2-receptor antagonists: twin compounds containing diaminofurazan substructure. Sorba G, et al. **Arch Pharm (Weinheim)** 1989 Sep;322(9):579–80

Synthesis and evaluation of the analgesic and antiinflammatory activities of N,N'-bis(2-hydroxybenzoyl)-diaminoalkanes. Daidone G, et al. **Farmaco** 1990 Mar;45(3):285–92

Structure activity studies of two classes of beta-amino-amides: the search for kappa-selective opioids. Loew G, et al. **NIDA Res Monogr** 1988;90:144–51

[Synthesis and antimalarial as well as antitumor activities of 1-methyl-2,4-diamino-6-(N-methyl-substituted benzylamion) quinazolinium iodides] Zhou WC, et al. **Yao Hsueh Hsueh Pao** 1989;24(12):953–6 (Eng. Abstr.) **(Chi)**

[Potential cardiotonics. 7. Synthesis and cardiovascular effects of 3-(4-pyridinyl)-, 6-methyl-4-(4-pyridinyl) and 6-methyl-5-phenyl-substituted 3-cyano-2-aminoalkylamino-pyridines] Hagen V, et al. **Pharmazie** 1990 Apr;45(4):240–1 (Eng. Abstr.) **(Ger)**

METABOLISM

The allosteric binding profile of himbacine: a comparison with other cardioselective muscarinic antagonists. Lee NH, et al. **Eur J Pharmacol** 1990 Apr 10;179(1-2):225–9

L-2,4-diaminobutyric acid decarboxylase activity responsible for the formation of 1,3-diaminopropane in Enterobacter aerogenes. Nakao H, et al. **FEMS Microbiol Lett** 1990 Jun 15;58(1):61–6

PHARMACOKINETICS

Dolastatin 10, a powerful cytostatic peptide derived from a marine animal. Inhibition of tubulin polymerization mediated through the vinca alkaloid binding domain. Bai R, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1941–9

Structure-distribution relationship studies of 99mTc-2,3-diamine complexes. Salako Q, et al. **Int J Rad Appl Instrum [B]** 1990;17(4):437–41

PHARMACOLOGY

Antimicrobial activity of N,N'-dialkylpolymethylenediamines against some dental plaque bacteria. Murata Y, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1636–8

Effects of three irreversible inhibitors of ornithine decarboxylase on macrophage-mediated tumoricidal activity and antitumor activity in B16F1 tumor-bearing mice. Bowlin TL, et al. **Cancer Res** 1990 Aug 1; 50(15):4510–4

Reduction in cis-diamminedichloroplatinum(II)-induced cytotoxicity, sister chromatid exchange, and DNA interstrand cross-links in 9L cells treated with the polyamine biosynthesis inhibitor (2R,5R)-6-heptyne-2,5-diamine. Milam KM, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6945–8

Antimicrobial activity of N-alkylpolymethylenediamines against some dental plaque bacteria. Murata Y, et al. **Caries Res** 1990;24(1):33–5

Cell proliferation and polyamine metabolism in 9L cells treated with (2R,5R)-6-heptyne-2,5-diamine or alpha-difluoromethylornithine. Milam KM, et al. **Cell Tissue Kinet** 1989 May;22(3):269–77

Methoctramine, a cardioselective muscarinic antagonist, stimulates phosphoinositide hydrolysis in rat cerebral cortex. Lee NH, et al. **Eur J Pharmacol** 1989 Aug 22; 167(2):295–8

Activation of rat liver S-adenosylmethionine decarboxylase by putrescine and 2-substituted 1,4-butanediamines. Dezeure F, et al. **Int J Biochem** 1989;21(8):889–99

Effect of ornithine decarboxylase inhibitor on tetragastrin treatment of gastric carcinogenesis induced by N-methyl-N'-nitro-N-nitrosoguanidine in Wistar rats. Tatsuta M, et al. **Int J Cancer** 1990 Feb 15;45(2):308–11

Different mechanisms of antagonism by methoctramine of two neuronal muscarinic receptor-mediated second messenger responses. Lee NH, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):992–9

Binding of selective antagonists to four muscarinic receptors (M1 to M4) in rat forebrain. Waelbroeck M, et al. **Mol Pharmacol** 1990 Aug;38(2):267–73

Characterization of polyamines having agonist, antagonist, and inverse agonist effects at the polyamine recognition site of the NMDA receptor. Williams K, et al. **Neuron** 1990 Aug;5(2):199–208

Medicinal agents incorporating the 1,2-diamine functionality. Michalson ET, et al. **Prog Drug Res** 1989;33:135–49 (43 ref.)

THERAPEUTIC USE

Assessment of renal toxicity by urinary enzymes in patients receiving chemotherapy with 8-methyl-8-acetylenic-putrescine. Carmichael J, et al. **Cancer Chemother Pharmacol** 1990;26(1):65–6

TOXICITY

Comparative evaluation of hepatotoxic side effects of various new trypanocidal diamidines in rat hepatocytes and mice. Sippel H, et al. **Arzneimittelforschung** 1990 Mar;40(3):290–3

URINE

Biological monitoring of isocyanates and related amines. I. Determination of 1,6-hexamethylene diamine (HDA) in hydrolysed human urine after oral administration of HDA. Brorson T, et al. **Int Arch Occup Environ Health** 1990; 62(1):79–84

DIAMINO AMINO ACIDS see **AMINO ACIDS, DIAMINO**

3,3'-DIAMINOBENZIDINE see under **BENZIDINES**

DIAMINODIETHYLDISULFIDE see **CYSTAMINE**

DIAMINODIPHENYLSULFONE see **DAPSONE**

DIAMINOPIMELIC ACID see under **AMINO ACIDS, DIAMINO**

DIAMORPHINE see **DIACETYLMORPHINE**

DIANHYDROGALACTITOL see under **SUGAR ALCOHOLS**

DIANISIDINE see under **BENZIDINES**

DIANISYL TRICHLOROETHANE see **METHOXYCHLOR**

DIAPER PINS see **INFANT CARE**

DIAPER RASH

COMPLICATIONS

Autoinoculated palmar pustules in neonatal candidiasis. Resnick SD, et al. **Pediatr Dermatol** 1989 Sep;6(3):206–9

DRUG THERAPY

[Treatment of diaper rash with Parfenac lipid ointment (bufexamac). A study by Austrian pediatricians] Lubec G. **Padiatr Padol** 1989;24(3):227–36 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Ultra nappy rash [letter] Hocken D, et al. **J R Coll Gen Pract** 1989 Mar;39(320):127

[Diaper dermatitis in infants] Lorette G, et al. **Ann Dermatol Venereol** 1990;117(3):213–9 **(Fre)**

[Diaper rash in Kawasaki disease] Guerrero Vázquez J, et al. **An Esp Pediatr** 1990 Mar;32(3):246–8 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Evaluations of diapers containing absorbent gelling material with conventional disposable diapers in newborn infants. Lane AT, et al. **Am J Dis Child** 1990 Mar;144(3):315–8

DIAPERS see **INFANT CARE**

DIAPHANOGRAPHY see **TRANSILLUMINATION**

DIAPHANOSCOPY see **TRANSILLUMINATION**

DIAPHORASE see **LIPOAMIDE DEHYDROGENASE**

DT-DIAPHORASES see **QUINONE REDUCTASES**

DIAPHRAGM

Recurrent pleuro-pericarditis due to gastrodiaphragmatic fistula. Descamps OS, et al. **Acta Clin Belg** 1990;45(2):126–9

Supradiaphragmatic aspects of benign pancreatic disease. Walton TP 3d, et al. **Am Surg** 1975 Jan;41(1):32–6

In situ isolated perfused and innervated left hemidiaphragm preparation. Hussain SN, et al. **J Appl Physiol** 1989 Nov; 67(5):2141–6

Gastrodiaphragmatic fistula after transabdominal Nissen fundoplication. An unusual complication. Hauters P, et al. **J Clin Gastroenterol** 1990 Jun;12(3):313–5

Prognostic factors for positive surgical staging in patients with Hodgkin's disease [see comments] Mauch P, et al. **J Clin Oncol** 1990 Feb;8(2):257–65 Comment in: J Clin Oncol 1990 May;8(5):941–2.

The management of diaphragmatic lesions in ovarian carcinoma. Fiorica JV, et al. **Obstet Gynecol** 1989 Dec; 74(6):927–9

Phrenic nerve stimulation in tetraplegia. A new regimen to condition the diaphragm for full-time respiration. Baer GA, et al. **Scand J Rehabil Med** 1990;22(2):107–11

The thumb and index finger as principal surgical instruments to secure the inferior vena cava between the liver and the diaphragm in routine operations of the liver. Saint-Aubert B, et al. **Surg Gynecol Obstet** 1990 Feb;170(2):169–70

[Rupture of the diaphragm in an HF cow] Hesselink JW. **Tijdschr Diergeneeskd** 1989 Nov 1;114(21):1109–11 (Eng. Abstr.) **(Dut)**

[Hydatid cyst of the pericardium and diaphragm. Apropos of a case] Hafid F, et al. **Pediatrie** 1989;44(4):331–4 (11 ref.) (Eng. Abstr.) **(Fre)**

[Phrenic stimulation. Current indications and perspectives] Aubier M, et al. **Rev Mal Respir** 1989;6(5):393–4 (6 ref.) **(Fre)**

[Suspected primary tumor in the diaphragm revealing large cell carcinoma in the lung with sarcomatous change] Tou Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jun; 38(6):1083–7 (Eng. Abstr.) **(Jpn)**

[Diaphragmatic fistula] Marcano Marín E, et al. **GEN** 1989 Apr-Jun;43(2):130–1 **(Spa)**

ABNORMALITIES

Familial congenital diaphragmatic defect and associated midline anomalies: further evidence for an X-linked midline gene? Carmi R, et al. **Am J Med Genet** 1990 Jul;36(3):313–5

Extrinsic compression of the renal artery by diaphragmatic crus. Clément C, et al. **Ann Vasc Surg** 1990 May;4(3):305–8

Surgical correction of concomitant cranioventral abdominal wall, caudal sternal, diaphragmatic, and pericardial defects in young dogs. Bellah JR, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1722–6

Discordant, non-syndromic, congenital diaphragmatic defects in sibs. Farag TI, et al. **J Med Genet** 1989 Dec; 26(12):781–2

High apical insertion of the right diaphragm in an infant with right-sided Bochdalek diaphragmatic hernia. Ildstad ST, et al. **J Pediatr Surg** 1990 May;25(5):553–5

Prenatal diagnosis of eventration of the diaphragm. Thiagarajah S, et al. **JCU** 1990 Jan;18(1):46–9

[Chilaiditi's syndrome as a surgical problem] Galdarski R, et al. **Khirurgiia (Sofiia)** 1989;42(5):94–5 **(Bul)**

[A new sublethal syndrome with multiple malformations associating diaphragmatic hernia, distal digital hypoplasia, and craniofacial anomalies. The "Fryns syndrome"] Fryns JP, et al. **J Genet Hum** 1989 Sep;37(3):203–5 (Eng. Abstr.) **(Fre)**

[Genetic study of diaphragmatic defects] Czeizel E, et al. **Orv Hetil** 1990 Jun 3;131(22):1193–5 (Eng. Abstr.) **(Hun)**

[A case of congenital diaphragmatic hernia due to left central tendon defect in pregnancy] Fujita Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jul;37(7):1426–9 (Eng. Abstr.) **(Jpn)**

[Anomalies of the diaphragm—problems in early life] Daneliŝen D, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:11–4 **(Scr)**

[Surgical treatment of congenital anomalies of the diaphragm] Milović I, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:16–8 **(Scr)**

ANATOMY & HISTOLOGY

Effect of lower rib cage expansion and diaphragm shortening on the zone of apposition. Petroll WM, et al. **J Appl Physiol** 1990 Feb;68(2):484–8

Diaphragmatic thickness–lung volume relationship in vivo. Wait JL, et al. **J Appl Physiol** 1989 Oct;67(4):1560–8

[Anatomo-surgical findings on structure and function of the esophageal hiatus] Dell'Isola C, et al. **G Chir** 1989 Oct; 10(10):549–52 (Eng. Abstr.) **(Ita)**

BLOOD SUPPLY

Phrenic artery blood flow patterns during and after TOF stimulation of the dog diaphragm. Erian RF. **Can J Anaesth** 1990 May;37(4 Pt 2):S162

Contraction-dependent modulations in regional diaphragmatic blood flow. Hu F, et al. **J Appl Physiol** 1990 May;68(5):2019–28

A preparation for in vivo study of the diaphragmatic microcirculation in the rat. Boczkowski J, et al. **Microvasc Res** 1990 Jul;40(1):157–67

The effect of aminophylline on diaphragm blood flow in the piglet. Mayock DE, et al. **Pediatr Res** 1989 Sep;26(3):196–9

The arterial blood supply of the human fetal diaphragm. Bourdelat D, et al. **Surg Radiol Anat** 1989;11(4):265–70

DRUG EFFECTS

Effect of corticosteroids on diaphragm function and biochemistry in the rabbit. Ferguson GT, et al. **Am Rev Respir Dis** 1990 Jan;141(1):156–63

Morphologic changes in the airways induced by recurrent exposure of acetylcholine in the guinea pig. Nagai A, et al. **Am Rev Respir Dis** 1990 Jul;142(1):172–6

Effects of steroids on diaphragmatic function in rats. Viires N, et al. **Am Rev Respir Dis** 1990 Jul;142(1):34–8

Different effects of halothane and enflurane on diaphragmatic contractility in vivo. Kochi T, et al. **Anesth Analg** 1990 Apr;70(4):362–8

Comparison of neuromuscular block in the diaphragm and hand after administration of tubocurarine, pancuronium and alcuronium. Derrington MC, et al. **Br J Anaesth** 1990 Mar; 64(3):294–9

Relative potency of vecuronium on the diaphragm and the adductor pollicis. Lebrault C, et al. **Br J Anaesth** 1989 Oct; 63(4):389–92

Effects of sevoflurane and enflurane on contractility of canine diaphragm. Ide T, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S161

Effects of theophylline (T) on diaphragmatic contractility in dogs. Derom E, et al. **Chest** 1990 Mar;97(3 Suppl):103S

The effects of short- and long-term corticosteroid treatment on rat diaphragm contractility and fatigue. Prezant DJ, et al. **Chest** 1990 Mar;97(3 Suppl):104S

Effect of aminophylline and verapamil upon diaphragmatic force generation in dogs. De Vito EL, et al. **Eur Respir J** 1990 Apr;3(4):456–62

Effect of aminophylline on mechanical activity of rat diaphragm bundles. Delbono O, et al. **J Appl Physiol** 1990 Mar;68(3):1142–9

Aminophylline and human diaphragm strength in vivo. Levy RD, et al. **J Appl Physiol** 1990 Jun;68(6):2591–6

Diaphragm atrophy and weakness in cortisone-treated rats. Moore BJ, et al. **J Appl Physiol** 1989 Dec;67(6):2420–6

Effect of N-acetylcysteine on diaphragm fatigue. Shindoh C, et al. **J Appl Physiol** 1990 May;68(5):2107–13

Effect of denervation of the phrenic nerve on the action of calcitonin gene-related peptide in rat diaphragm. Matsumoto N, et al. **Life Sci** 1990;47(6):547–55

The effect of theophylline on respiratory muscle contractility and fatigue. Landsberg KF, et al. **Pharmacotherapy** 1990; 10(4):271–9

EMBRYOLOGY

Embryonic development of rat diaphragm. An electron-microscopic study. Angelov DN, et al. **Z Mikrosk Anat Forsch** 1989;103(6):897–908

INJURIES

Hemorrhage from the diaphragm: an unusual cause of hemothorax after percutaneous liver biopsy [letter] Majid AA. **Am J Gastroenterol** 1990 Jan;85(1):104–5

Diagnosis of diaphragmatic injury using intraperitoneal technetium. Rappaport WD, et al. **Am Surg** 1989 Oct; 55(10):621–4

Blunt diaphragm injuries. A five-year experience. Voeller GR, et al. **Am Surg** 1990 Jan;56(1):28–31

Blunt rupture of the diaphragm: mechanism, diagnosis, and treatment. Kearney PA, et al. **Ann Emerg Med** 1989 Dec; 18(12):1326–30

Laparotomy vs thoracotomy for acute diaphragmatic injuries [letter] McNamee CJ, et al. **Br J Hosp Med** 1990 Jun; 43(6):411

Rupture of the right hemidiaphragm following blunt trauma: the use of ultrasound in diagnosis. Somers JM, et al. **Clin Radiol** 1990 Aug;42(2):97–101

Early diagnosis and management of diaphragmatic rupture due to blunt abdominal trauma. Udezue NO. **East Afr Med J** 1989 Aug;66(8):538–47

Spinal cord injury associated with blunt traumatic rupture of the diaphragm. Jamous MA, et al. **Injury** 1989 May; 20(3):149–51

Combined blunt rupture of the diaphragm and thoracic aorta. van Leeuwen JE, et al. **Injury** 1990 Mar;21(2):117–9

Oxidative capacity and capillary density of diaphragm motor units. Enad JG, et al. **J Appl Physiol** 1989 Aug;67(2):620–7

Haemothorax caused by a solitary costal exostosis. Reynolds JR, et al. **Thorax** 1990 Jan;45(1):68–9

[Traumatic diaphragmatic injury and hernia] Zhou HC. **Chung Hua Wai Ko Tsa Chih** 1989 Jun;27(6):364–6, 382 (Eng. Abstr.) **(Chi)**

[The reliability of ultrasonic diagnosis in diaphragmatic rupture] Chudáček Z. **Cesk Radiol** 1990 Mar;44(2):108–13 (Eng. Abstr.) **(Cze)**

[Traumatic ruptures of the diaphragm] Strnad J, et al. **Rozhl Chir** 1989 Oct;68(10):646–9 (Eng. Abstr.) **(Cze)**

[Traumatic lesions of the diaphragm (experiences with 36 cases)] Gibertini G, et al. **Chir Ital** 1989 Feb;41(1):3–9 (Eng. Abstr.) **(Ita)**

[Severe polytrauma in a child] Shish AA, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):90–1 **(Rus)**

[Penetrating thoraco-abdominal wounds with injuries of the stomach, pancreas, inferior vena cava and the right kidney] Tochilin VI, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):129–30 **(Rus)**

[Combined injuries of the heart, lung, diaphragm and stomach] Kulish AV, et al. **Klin Khir** 1989;(10):63–4 **(Rus)**

[Rupture of the diaphragm in combined trauma] Ostrovskii VP, et al. **Vestn Khir** 1990 Jan;144(1):73–4 **(Rus)**

[Total rupture of the diaphragm with displacement of the liver into the thoracic cavity in a child] Poliakov VP, et al. **Vestn Khir** 1989 Jul;143(7):81–2 **(Rus)**

[Rupture of the right hemidiaphragm with prolapse of part of the right hepatic lobe as a consequence of blunt injuries of the thorax—case report] Bilanović D, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:47–9 **(Scr)**

[Case report on the diagnosis of diaphragmatic injury 25 years after sustaining the trauma] Crnjaković D, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:49–51 **(Scr)**

[Injuries of the diaphragm examined from 1976 to 1988] Dragnić A, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:51–3 (Eng. Abstr.) **(Scr)**

[Surgical treatment of diaphragmatic rupture in closed injuries] Gashi M, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:54–7 **(Scr)**

[Traumatic rupture of the diaphragm] Jovanović S, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:57–8 **(Scr)**

[Closed diaphragmatic rupture as a surgical problem] Kalinić D, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:59–61 **(Scr)**

[Penetrating injuries of the diaphragm] Kalinić D, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:61–3 **(Scr)**

[Rupture of the diaphragm caused by blunt injuries—diagnosis and treatment] Krekman L, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:44–7 **(Scr)**

[Injuries of the diaphragm] Matović Z, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:63–6 (Eng. Abstr.) **(Scr)**

[Traumatic rupture of the diaphragm as a diagnostic and therapeutic problem in polytrauma] Mijatović Z, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:66–71 **(Scr)**

[Closed injuries of the diaphragm in autopsy material] Najdanović M, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:72–3 (Eng. Abstr.) **(Scr)**

[Diaphragmatic rupture in present-day injuries] Putniković M, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:73–6 (Eng. Abstr.) **(Scr)**

[Surgical treatment of traumatic rupture of the diaphragm] Stanić V, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:78–81 **(Scr)**

[Traumatic lesions of the respiratory diaphragm] Tatlić B. **Acta Chir Iugosl** 1989;36 Suppl 1:81–5 **(Scr)**

[Injuries of the diaphragm] Trifunović M, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:85–6 **(Scr)**

[Diagnostic problems in closed diaphragmatic ruptures] Zigić B, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:87–9 (Eng. Abstr.) **(Scr)**

INNERVATION

Diaphragmatic pacing in the treatment of chronic respiratory insufficiency of quadriplegic patients. De Boeck H, et al. **Acta Chir Belg** 1989 Sep–Oct;89(5):276–80

Pacemaker twiddler's syndrome: a case report. Ellis GL. **Am J Emerg Med** 1990 Jan;8(1):48–50

Elevated hemidiaphragm after cardiac operations [letter; comment] Esposito RA. **Ann Thorac Surg** 1990 Jul; 50(1):166–7 Comment on: Ann Thorac Surg 1989 Dec;48(6):764–8.

Brainstem connections of the rostral ventral respiratory group of the rat. Ellenberger HH, et al. **Brain Res** 1990 Apr 9;513(1):35–42

Postsynaptic nicotinic ACh receptor-operated Ca2+ transients with neostigmine in phrenic nerve-diaphragm muscles of mice. Kimura I, et al. **Brain Res** 1990 Jan 22; 507(2):309–11

Vecuronium neuromuscular blockade at the diaphragm, orbicularis oculi and adductor pollicis muscles. Donati F, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S13

Electromyographic response of the diaphragm to a sudden increase in operating length. Revelette WR, et al. **Chest** 1990 Mar;97(3 Suppl):45S

Chest wall afferent output. Road JD. **Chest** 1990 Mar;97(3 Suppl):40S–43S (38 ref.)

METABOLISM

Permeabilisation of the sarcolemma in mouse diaphragm exposed to Bay K 8644 in vitro: time course, dependence on Ca2+ and effects of enzyme inhibitors. Howl JD, et al. **Acta Neuropathol (Berl)** 1990;79(4):438–43

Diaphragmatic fatigue is associated with decreased inositol 1,4,5-trisphosphate formation. Zavecz JH, et al. **Am Rev Respir Dis** 1990 Mar;141(3):792–4

Glucose utilization in heart, diaphragm and skeletal muscle during the fed-to-starved transition. Holness MJ, et al. **Biochem J** 1990 Aug 15;270(1):245–9

Investigations into the route of uptake and pharmacokinetics of intraperitoneally-administered monoclonal antibodies: I. Transdiaphragmatic blockade of the terminal lymphatics in the rat. Barrett JS, et al. **Cancer Immunol Immunother** 1990;31(6):365–72

Cellular energy metabolism. Recent advances in the study of the diaphragm with magnetic resonance spectroscopy. Gutierrez G, et al. **Chest** 1990 Apr;97(4):975–82 (45 ref.)

Intracellular oxidant production by isolated diaphragm. Reid MB, et al. **Chest** 1990 Mar;97(3 Suppl):97S–98S

Induction of responsiveness of rat diaphragm to ovine growth hormone after administration of reserpine. Lim L, et al. **Horm Metab Res** 1990 Mar;22(3):153–6

The influence of piracetam on digoxin up-take by different rabbit tissues in vitro. Kokkas B, et al. **Int J Neurosci** 1989 Sep;48(1–2):25–7

Measurement of intracellular pH in hamster diaphragm by absorption spectrophotometry. Zhang RG, et al. **J Appl Physiol** 1990 Mar;68(3):1101–6

PATHOLOGY

Primary tumors of the diaphragm. Olafsson G, et al. **Chest** 1971 May;59(5):568–70

Diaphragmatic muscle fibre necrosis in SIDS. Karlka J. **Forensic Sci Int** 1989 Dec;43(3):281–91

Effect of acute nutritional deprivation on diaphragm structure and function. Lewis MI, et al. **J Appl Physiol** 1990 May;68(5):1938–44

Effects of anoxia on cellular damage in the incubated mouse diaphragm. Shamsadeen NM, et al. **Tissue Cell** 1989; 21(6):857–61

[Morphological changes in human diaphragm—ragged red fiber, core/targetoid fiber, cytoplasmic body, and ring fiber] Isozaki E, et al. **Rinsho Shinkeigaku** 1989 Jun; 29(6):726–33 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Laryngeal pacemaker: activity of the posterior cricoarytenoid muscle (PCM) and the diaphragm during respiration in sheep. Zrunek M, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct;108(3–4):311–6

Adaptations in the diaphragm's in vitro force-length relationship in patients on continuous ambulatory peritoneal dialysis. Prezant DJ, et al. **Am Rev Respir Dis** 1990 May; 141(5 Pt 1):1342–9

Taking the laparoscope to the laboratory for ventilatory research. Stellato TA, et al. **Am Surg** 1990 Mar;56(3):131–3

Cardiac cycle and synchronous left hemidiaphragmatic contraction [letter] Moorthy SS, et al. **Anesth Analg** 1990 Aug;71(2):206–7

A ballistic method to determine the fraction of the tidal volume contributed by the diaphragm. Josenhans WT. **Bibl Cardiol** 1967;(19):68–71

Diaphragmatic breathing maneuvers and movement of the diaphragm after cholecystectomy. Chuter TA, et al. **Chest** 1990 May;97(5):1110–4

Effect of lung volume and respiratory impedance on transdiaphragmatic pressure and muscle tension in dogs. Hubmayr RD, et al. **Chest** 1990 Mar;97(3 Suppl):69S

Technique of on-line analysis of diaphragmatic electromyogram activity in the newborn. Chambille B, et al. **Eur Respir J** 1989 Oct;2(9):883–6

EMG study of respiratory muscles in humans immersed at different water temperatures. Choukroun ML, et al. **J Appl Physiol** 1990 Feb;68(2):611–6

Diaphragmatic electromyography using a multiple electrode array. Daubenspeck JA, et al. **J Appl Physiol** 1989 Oct; 67(4):1525–34

Respiratory changes in diaphragmatic intramuscular pressure. Decramer M, et al. **J Appl Physiol** 1990 Jan;68(1):35–43

Fiber subtype distribution of pharyngeal dilator muscles and diaphragm in the cat. Dick TE, et al. **J Appl Physiol** 1990 May;68(5):2237–40

Effect of dorsolateral pontine lesions on diaphragmatic activity during REMS. Hendricks JC, et al. **J Appl Physiol** 1990 Apr;68(4):1435–42

Effect of abdominal compression on maximum transdiaphragmatic pressure. Hillman DR, et al. **J Appl Physiol** 1990 Jun;68(6):2296–304

Effect of separate hemidiaphragm contraction on left phrenic artery flow and O2 consumption. Hu F, et al. **J Appl Physiol** 1990 Jul;69(1):86–90

Startle-evoked changes in diaphragmatic activity during wakefulness and sleep. Kline LR, et al. **J Appl Physiol** 1990 Jan;68(1):166–73

Videofluoroscopic assessment of muscle fiber shortening in the in situ canine diaphragm. Knight H, et al. **J Appl Physiol** 1990 May;68(5):2200–7

Relative contribution of neurotransmission failure to diaphragm fatigue. Kuei JH, et al. **J Appl Physiol** 1990

Jan;68(1):174–80
Diaphragmatic perfusion heterogeneity during exercise with inspiratory resistive breathing. Manohar M. **J Appl Physiol** 1990 May;68(5):2177–81
Effect of naloxone.on spectral shifts of the diaphragm EMG during inspiratory loading [published erratum appears in J Appl Physiol 1990 Jun;68(6):following 2701] Petrozzino JJ, et al. **J Appl Physiol** 1990 Apr;68(4):1376–85
Theophylline does not increase maximal tetanic force or diaphragm endurance in vitro. Reid MB, et al. **J Appl Physiol** 1989 Oct;67(4):1655–61
Diaphragmatic plate electrode stimulation of the hamster diaphragm. Reid WD, et al. **J Appl Physiol** 1989 Oct;67(4):1341–8
Naloxone alters the early response to an inspiratory flow-resistive load. Scardella AT, et al. **J Appl Physiol** 1989 Nov;67(5):1747–53
Cervical magnetic stimulation: a new painless method for bilateral phrenic nerve stimulation in conscious humans. Similowski T, et al. **J Appl Physiol** 1989 Oct;67(4):1311–8 (45 ref.)
In vivo regional diaphragm function in dogs. Sprung J, et al. **J Appl Physiol** 1989 Aug;6. ,2):655–62
Effect of diaphragmatic contraction on intramuscular pressure and vascular impedance. Supinski GS, et al. **J Appl Physiol** 1990 Apr;68(4):1486–93
Effect of hypercapnia and hypoxia on respiratory muscle activation in humans. Takasaki Y, et al. **J Appl Physiol** 1989 Nov;67(5):1776–84
Sonomicrometric regional diaphragmatic shortening in awake sheep after thoracic surgery. Torres A, et al. **J Appl Physiol** 1989 Dec;67(6):2357–68
Diaphragmatic displacement measured by fluoroscopy and derived by Respitrace. Verschakelen JA, et al. **J Appl Physiol** 1989 Aug;67(2):694–8
High-frequency oscillations as indicators of neural control mechanisms in human respiration, mastication, and speech. Smith A, et al. **J Neurophysiol** 1990 Apr;63(4):745–58
Putative cerebral cortical involvement in the ventilatory response to inhaled CO2 in conscious man. Murphy K, et al. **J Physiol (Lond)** 1990 Jan;420:1–18
Passive viscoelastic work of isolated rat, Rattus norvegicus, diaphragm muscle. Syme DA. **J Physiol (Lond)** 1990 May; 424:301–15
Effects of bilateral transvenous diaphragm pacing on hemodynamic function in patients after cardiac operations. Experimental and clinical study. Ishii K, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):108–14
Costal and crural diaphragm, and intercostal and genioglossal electromyogram activities during spontaneous augmented breaths (sighs) in kittens. Watchko JF, et al. **Pediatr Pulmonol** 1989;7(2):94–100
Muscle shortening increases fatigue of canine diaphragm. Ameredes BT, et al. **Prog Clin Biol Res** 1990;327:785–7
The effect of pH and hypoxia on function and intracellular pH of the rat diaphragm. Shee CD, et al. **Respir Physiol** 1990 Jan;79(1):57–68
Responses of upper-airway dilating muscles and diaphragm activity to end-expiratory pressure loading in anesthetized dogs. Haxhiu MA, et al. **Respiration** 1989;56(1-2):1–10
Dependence of maximal sniff generated mouth and transdiaphragmatic pressures on lung volume. Wanke T, et al. **Thorax** 1990 May;45(5):352–5
An EMG analysis on regulation of the diaphragm and abdominal muscles. Kondo T, et al. **Tohoku J Exp Med** 1988 Dec;156 Suppl:43–55
[Temperature dependence of the heat of activation in a single isometric contraction of the rat diaphragm. The effect of extra- and intracellular temperature] Pchelenko LD. **Biofizika** 1989 Jul-Aug;34(4):671–4 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Preventive effects of indomethacin on diaphragmatic contractile alterations in endotoxemic rats. Boczkowski J, et al. **Am Rev Respir Dis** 1990 Jul;142(1):193–8
Relationship of diaphragm glycogen, lactate, and function to respiratory failure. Ferguson GT, et al. **Am Rev Respir Dis** 1990 Apr;141(4 Pt 1):926–32
Tracheobronchial clearance in patients with bilateral diaphragmatic weakness. Mier A, et al. **Am Rev Respir Dis** 1990 Sep;142(3):545–8
Correlations between dyspnea, diaphragm and sternomastoid recruitment during inspiratory resistance breathing in normal subjects. Breslin EH, et al. **Chest** 1990 Aug; 98(2):298–302
Hypothyroidism. A reversible cause of diaphragmatic dysfunction. Martinez FJ, et al. **Chest** 1989 Nov; 96(5):1059–63
Effect of chronic malnutrition on rat diaphragm contractility and fatigue. Prezant DJ, et al. **Chest** 1990 Mar;97(3 Suppl):96S
"Intrinsic" positive end-expiratory pressure in stable patients with chronic obstructive pulmonary disease. Dal Vecchio L, et al. **Eur Respir J** 1990 Jan;3(1):74–80
Changes in diaphragm motor unit EMG during fatigue. Sieck GC, et al. **J Appl Physiol** 1990 May;68(5):1917–26
Diaphragmatic and external intercostal muscle control during vomiting: behavior of inspiratory bulbospinal neurons. Miller AD, et al. **J Neurophysiol** 1990 Jan;63(1):31–6
Phrenic nerve pacing of the quadriplegic patient. Miller JI, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):35–9; discussion 39–40
Diaphragmatic weakness and paralysis. Wilcox PG, et al. **Lung** 1989;167(6):323–41 (72 ref.)
Diaphragmatic flutter, the moving umbilicus syndrome, and "belly dancer's" dyskinesia. Iliceto G, et al. **Mov Disord** 1990;5(1):15–22
Neonatal diaphragmatic flutter. Riordan LL, et al. **Pediatr Pulmonol** 1990;8(3):209–11
Genioglossus and diaphragm activity during obstructive apnea and airway occlusion in infants. Gauda EB, et al. **Pediatr Res** 1989 Dec;26(6):583–7
Diaphragm strength in the shrinking lung syndrome of systemic lupus erythematosus. Laroche CM, et al. **Q J Med** 1989 May;71(265):429–39
Twitch pressures in the assessment of diaphragm weakness. Mier A, et al. **Thorax** 1989 Dec;44(12):990–6
Inspiratory and skeletal muscle strength and endurance and diaphragmatic activation in patients with chronic airflow limitation. Newell SZ, et al. **Thorax** 1989 Nov; 44(11):903–12
[Diaphragmatic fatigue and its role in the development of respiratory insufficiency and cor pulmonale in COPD] Chen RC. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Jun;12(3):158–60, 192 (Eng. Abstr.) **(Chi)**
[Diaphragm pacing by electric stimulation of the phrenic nerves] Biering-Sørensen F, et al. **Ugeskr Laeger** 1990 Apr 16;152(16):1143–5 (Eng. Abstr.) **(Dan)**
[Changes in diaphragmatic function in endotoxic shock in the rat] Léon A, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R260 **(Fre)**

RADIOGRAPHY

Elevated hemidiaphragm after cardiac operations: incidence, prognosis, and relationship to the use of topical ice slush [see comments] Curtis JJ, et al. **Ann Thorac Surg** 1989 Dec; 48(6):764–8 Comment in: Ann Thorac Surg 1990 Jul;50(1):166–7.
Kerley Pergamon lecture: The diaphragm. Radiologic correlations with anatomy and pathology. Heitzman ER. **Clin Radiol** 1990 Jul;42(1):15–9 (21 ref.)
[Counter-flow gas contrast in the differential diagnosis of formation of the cardiodiaphragmatic angle] Kharitonov VA, et al. **Vestn Rentgenol Radiol** 1989 May-Jun;(3):65–9 (Eng. Abstr.) **(Rus)**
[X-ray assessment of the functional status of the diaphragm in degenerative-dystrophic lesions of the spine] Dmitriev AE, et al. **Voen Med Zh** 1989 Nov;(11):38–41 **(Rus)**

RADIONUCLIDE IMAGING

Demonstration of abnormal peritoneal communication in patients with ascites. Recoskie MJ, et al. **Clin Nucl Med** 1990 Feb;15(2):97–100

SURGERY

Diaphragmatic plication for unilateral diaphragmatic paralysis: a 10-year experience. Graham DR, et al. **Ann Thorac Surg** 1990 Feb;49(2):248–51; discussion 252
Diaphragmatic resection in association with right hepatectomy. Scudamore CH, et al. **Can J Surg** 1990 Feb; 33(1):21–4
[2 case reports of echinococcosis of the diaphragm] Atanasov A, et al. **Khirurgiia (Sofiia)** 1989;42(3):76–7 **(Bul)**
[Thoracophrenotomy in adrenal surgery] Mendizov I, et al. **Khirurgiia (Sofiia)** 1990;43(1):1–3 (Eng. Abstr.) **(Bul)**
[A case of omentopexy for bronchial fistula and pyothorax following the right completion pneumonectomy with combined resection of pericardium, diaphragm and chest wall] Hoshi E, et al. **Kyobu Geka** 1989 Dec;42(13):1114–7 (Eng. Abstr.) **(Jpn)**
[A rarely observed cause of renal artery stenosis and subsequent arterial hypertension] Zając S, et al. **Wiad Lek** 1989 Nov 15-Dec 15;42(22-24):1139–42 (Eng. Abstr.) **(Pol)**
[Plastic surgery of post-traumatic defect of the diaphragm using autologous skin transplant] Shevchenko SI, et al. **Klin Khir** 1989;(10):78 **(Rus)**
[Surgical treatment of hiatal hernia] Galimov OV, et al. **Klin Med (Mosk)** 1990 May;68(5):115–8 **(Rus)**
[Surgery of the diaphragm] Najdanović M. **Acta Chir Iugosl** 1989;36 Suppl 1:7–11 (Eng. Abstr.) **(Ser)**

ULTRASTRUCTURE

The distribution of lymphatic stomata in the diaphragm of the golden hamster. Fukuo Y, et al. **J Anat** 1990 Apr; 169:13–21
On the presence and function of closed lymphatic stomata in the diaphragm of the golden hamster. Shinohara H, et al. **Okajimas Folia Anat Jpn** 1989 Aug;66(2-3):69–79
[An electron microscopic demonstration of the invasion of tumor cells into the diaphragm] Namba Y. **Nippon Geka Gakkai Zasshi** 1989 Nov;90(11):1915–21 (Eng. Abstr.) **(Jpn)**

DIAPHRAGMATIC EVENTRATION

[A case of dextrogastria associated with eventration of the right hemidiaphragm] Mercader Martínez J, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):255–8 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Patterns of malformation in children with congenital diaphragmatic defects. Cunniff C, et al. **J Pediatr** 1990 Feb; 116(2):258–61
[Congenital right diaphragmatic eventration manifested with pleural effusion. Report of one case] Hsieh WS, et al. **Acta Paediatr Sin** 1989 Nov-Dec;30(6):432–6 (Eng. Abstr.) **(Chi)**

DIAGNOSIS

Congenital diaphragmatic defects that present late. Malone PS, et al. **Arch Dis Child** 1989 Nov;64(11):1542–4
Eventration of the diaphragm. Prenatal diagnosis. Jurcak-Zaleski S, et al. **J Ultrasound Med** 1990 Jun; 9(6):351–4

ETIOLOGY

Is diaphragmatic elevation a serious complication of open-heart surgery? Bogers JJ, et al. **Scand J Thorac Cardiovasc Surg** 1989;23(3):271–4

GENETICS

Congenital bilateral eventration of the diaphragm in a pair of male twins. Elberg JJ, et al. **J Pediatr Surg** 1989 Nov; 24(11):1140–1

PATHOLOGY

[Myohyperplasia of the lung arterioles in congenital diaphragmatic defects] Awissus A, et al. **Z Kinderchir** 1990 Jun;45(3):156–8 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Congenital eventration of diaphragm. Dalvi R, et al. **Indian J Pediatr** 1990 Jan-Feb;57(1):125–7

SURGERY

[Incarceration of the colon and omentum in a defect of the left cupula of the diaphragm after plastic surgery in diaphragm relaxation] Koval kov VF, et al. **Vestn Khir** 1989 Dec;144(12):40–1 **(Rus)**
[Late results in the surgical treatment of diaphragmatic relaxation] Stepić V, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:20–3 **(Ser)**

DIAPHRAGMATIC HERNIA see **HERNIA, DIAPHRAGMATIC**

DIAPHRAGMATIC HERNIA, TRAUMATIC see **HERNIA, DIAPHRAGMATIC, TRAUMATIC**

DIAPHRAGMATIC PARALYSIS see **RESPIRATORY PARALYSIS**

DIAPHYSEAL ACLASIS see **EXOSTOSES, MULTIPLE HEREDITARY**

DIAPHYSEAL DYSPLASIA, PROGRESSIVE see under **OSTEOCHONDRODYSPLASIAS**

DIARRHEA

Bibliography on diarrhoeal diseases. Khan MS, et al. **J Diarrhoeal Dis Res** 1988 Sep-Dec;6(3-4):232–75
From the National Institute of Allergy and Infectious Diseases. Summary of the 25th United States-Japan Joint Conference on cholera and related diarrheal diseases. Spriggs DR, et al. **J Infect Dis** 1990 Sep;162(3):584–90
Traveler's diarrhea: methods of prevention and treatment. Opal SM, et al. **R I Med J** 1990 May;73(5):199–204
[Diarrheal disease in childhood] Jodl J. **Zdrav Aktual** 1985; 205:45–8 **(Cze)**
[The management of acute diarrhea in adults] Gandini BJ, et al. **Rev Fac Cien Med Univ Nac Cordoba** 1987;45(2):37–8, 41–2 **(Spa)**

CHEMICALLY INDUCED

Methyldopa-induced diarrhea: a case of iatrogenic diarrhea leading to request for nursing home placement. Gloth FM 3d, et al. **Am J Med** 1989 Oct;87(4):480–1
Exogenous lactase in the treatment of oral acyclovir intolerance. Manka RL. **Am J Ophthalmol** 1989 Dec 15; 108(6):733
An epidemiologic postmarketing surveillance study of prescription acne medications. Facklam DP, et al. **Am J Public Health** 1990 Jan;80(1):50–3
A simple regime for preparation of colon before large-bowel surgery. Plumley PF. **Br J Surg** 1966 May;53(5):413–4
Enterotoxins from Clostridium difficile; diarrhoeogenic potency and morphological effects in the rat intestine. Torres J, et al. **Gut** 1990 Jul;31(7):781–5
Clostridium difficile-associated diarrhea after norfloxacin. Ehrenpreis ED, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):188–9
Diarrhoea associated with ceftriaxone and its implications in paediatric patients. Nahata MC, et al. **J Clin Pharm Ther** 1989 Aug;14(4):305–7
Flutamide-induced diarrhea secondary to lactose intolerance [letter] Yagoda A. **J Natl Cancer Inst** 1989 Dec 6; 81(23):1839–40

Nosocomial diarrhea: beware the medicinal elixir. Edes TE, et al. **South Med J** 1989 Dec;82(12):1497–500

[Severe chronic diarrhea during treatment with ticlopidine (letter)] Chassany O, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):950 **(Fre)**

[Severe diarrhea caused by Ticlid associated with disorders of small intestine motility] Guédon C, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):934–7 (18 ref.) (Eng. Abstr.) **(Fre)**

[A case of prolonged diarrhea caused by Cyclo 3 fort (letter)] Gendreau-Tranquart C, et al. **Presse Med** 1989 Sep 23; 18(29):1439 **(Fre)**

[Prevention of antibiotic-associated diarrhea by Saccharomyces boulardii: a prospective study] Hotz J. **Z Gastroenterol** 1990 May;28(5):259–60 **(Ger)**

[Adverse reactions caused by drugs in pediatrics] Vázquez de la Villa A, et al. **An Esp Pediatr** 1989 Jul;31(1):49–53 (Eng. Abstr.) **(Spa)**

[Abuse of laxatives as the cause of obscure prolonged diarrhea] Blomquist L, et al. **Lakartidningen** 1989 Oct 11; 86(41):3467–70 (Eng. Abstr.) **(Swe)**

CLASSIFICATION

Methodological considerations in defining chronic diarrhoea using a distributional approach. Stanton BF, et al. **Int J Epidemiol** 1990 Jun;19(2):439–43

COMPLICATIONS

Paralytic ileus, a serious complication in acute diarrhoea disease among infants in developing countries. Murtaza A, et al. **Acta Paediatr Scand** 1989 Sep;78(5):701–5

Growth disturbance in an urban area of Lahore, Pakistan related to feeding patterns, infections and age, sex, socio-economic factors and seasons. Jalil F, et al. **Acta Paediatr Scand Suppl** 1989;350:44–54

HIV infection and intestinal pseudo-obstruction [letter] Victorino RM, et al. **AIDS** 1990 Jun;4(6):599–601

Pneumonia, diarrhea, and growth in the first 4 y of life: a longitudinal study of 5914 urban Brazilian children. Victora CG, et al. **Am J Clin Nutr** 1990 Aug;52(2):391–6

Re: "Sunlight, skin sensitivity, and senile cataract" [letter; comment] Badrinath P. **Am J Epidemiol** 1990 Jun; 131(6):1101 Comment on: Am J Epidemiol 1989 Mar;129(3):559–68.

Metabolic acidosis due to inapparent defects in renal acid excretion in a patient with chronic diarrhea. Phelps KR, et al. **Am J Nephrol** 1990;10(1):37–43

HIV-related enteropathy in Zambia: a clinical, microbiological, and histological study. Conlon CP, et al. **Am J Trop Med Hyg** 1990 Jan;42(1):83–8

Practical advice for the gastroenterologist dealing with symptomatic HIV disease. Gazzard BG. **Gut** 1990 Jul; 31(7):733–5 (39 ref.)

Intractable diarrhea and melena in an AIDS patient. Chinoy RF, et al. **Indian J Gastroenterol** 1990 Apr;9(2):159–60

Opportunistic infections with coronavirus-like particles in patients infected with the human immunodeficiency virus? Eis-Hübinger AM, et al. **Int J Med Microbiol** 1989 Sep; 271(3):351–5

Acute renal failure due to acute diarrhoeal diseases. Kumar SS, et al. **J Assoc Physicians India** 1990 Feb;38(2):164–6

Cryptosporidiosis as a cause of chronic diarrhoea in a patient with insulin-dependent diabetes mellitus [letter] Chan AW, et al. **J Infect** 1989 Nov;19(3):293

A retrospective cohort study of nosocomial diarrhea as a risk factor for nosocomial infection. Lima NL, et al. **J Infect Dis** 1990 May;161(5):948–52

Escherichia coli O157:H7 and the hemolytic uremic syndrome: importance of early cultures in establishing the etiology. Tarr PI, et al. **J Infect Dis** 1990 Aug;162(2):553–6

Malabsorption due to protracted diarrhea [letter] Ozsoylu S. **J Pediatr Gastroenterol Nutr** 1990 Aug;11(2):282–3

How much oral rehydration solution is actually administered during home-based therapy? Touchette PE, et al. **J Trop Med Hyg** 1990 Feb;93(1):28–34

Diarrhoea and catch-up growth [letter] [see comments] **Lancet** 1990 Mar 10;335(8689):599–600 Comment in: Lancet 1990 May 12;335(8698):1157–8.

Diarrhoea and catch-up growth [letter; comment] Briend A, et al. **Lancet** 1990 May 12;335(8698):1157–8 Comment on: Lancet 1990 Mar 10;335(8689):599–600.

Early detection of vitamin A deficiency in children with persistent diarrhoea [letter] Usha N, et al. **Lancet** 1990 Feb 17;335(8686):422

Hypoglycemia during diarrhea in childhood. Prevalence, pathophysiology, and outcome [see comments] Bennish ML, et al. N **Engl J Med** 1990 May 10;322(19):1357–63 Comment in: N Engl J Med 1990 May 10;322(19):1357–63.

Hypoglycemia during diarrhea in childhood [letter] Edelson GW, et al. N **Engl J Med** 1990 Oct 4;323(14):1000–1

Diarrhea, malnutrition, euglycemia, and fuel for thought [editorial; comment] Haymond MW. N **Engl J Med** 1990 May 10;322(19):1390–1 Comment on: N Engl J Med 1990 May 10;322(19):1357–63.

Impact of acute diarrhoea on parasite loads. Khan MU, et al. **Trop Med Parasitol** 1990 Jun;41(2):163–4

[31-year-old man with disseminated neoplasms, chronic diarrhea syndrome and episodes of paroxysmal supraventricular tachycardia (clinical conference)] Estruch R, et al. **Med Clin (Barc)** 1989 Nov 25;93(17):667–75 **(Spa)**

CONGENITAL

Congenital chloridorrhea in Korean infants. Lee YD, et al. **J Korean Med Sci** 1988 Sep;3(3):123–9

DIAGNOSIS

Acute gastroenteritis. Changing pattern of clinical features and management. Isolauri E, et al. **Acta Paediatr Scand** 1989 Sep;78(5):685–91

High breath hydrogen baselines: a new diagnostic parameter? [letter] Joseph F Jr, et al. **Acta Paediatr Scand** 1989 Sep; 78(5):775–6

Cytotoxin-negative Clostridium difficile [letter; comment] Beaman MH, et al. **Aust N Z J Med** 1990 Feb;20(1):99–100 Comment on: Aust N Z J Med 1989 Feb;19(1):31–6.

Diagnostic approach to the patient with a chronic diarrheal disorder. Greenberger NJ. **Dis Mon** 1990 Mar;36(3):131–79

Occurrence of nonspecific reactions among stool specimens tested by the Abbott TestPack rotavirus enzyme immunoassay. Lipson SM, et al. **J Clin Microbiol** 1990 Jun; 28(6):1132–4

Detection of Shigella in feces using DNA amplification. Frankel G, et al. **J Infect Dis** 1990 Jun;161(6):1252–6

Inappropriate testing for diarrheal diseases in the hospital. Siegel DL, et al. **JAMA** 1990 Feb 16;263(7):979–82

Infectious causes of diarrhea in the differential diagnosis of inflammatory bowel disease. Farmer RG. **Med Clin North Am** 1990 Jan;74(1):29–38 (28 ref.)

Presence of group A and non-A rotaviruses in neonatal piglets in Campinas, SP, Brazil. Gatti MS, et al. **Med Microbiol Immunol (Berl)** 1989;178(6):347–9

Identification of rotaviruses by dot-blot hybridization using an alkaline phosphatase-conjugated synthetic oligonucleotide probe. Yamakawa K, et al. **Mol Cell Probes** 1989 Dec;3(4):397–401

Weanling diarrhea: a case report. Solomons NW, et al. **Nutr Rev** 1990 May;48(5):212–4

[Diagnostic serology of campylobacter infections—advisability of a supplementary review of diarrhea] Rautelin H, et al. **Duodecim** 1989; 105(19):1597–601 **(Fin)**

DIET THERAPY

Nutritional management of chronic diarrhoea and/or malabsorption [letter] Thomas AG, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):142–3

Management of malnourished children with acute diarrhoea and sugar intolerance. Beau JP, et al. **J Trop Pediatr** 1990 Apr;36(2):86–9

[Treatment of enteropathy in AIDS with a gluten-free diet. Preliminary communication] Quiñones A, et al. **Rev Invest Clin** 1989 Jul-Sep;41(3):223–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Suppression of small intestinal motility and morphine withdrawal diarrhoea by clonidine: peripheral site of action. Thollander M, et al. **Acta Physiol Scand** 1989 Nov; 137(3):385–92

Efficacy of the somatostatin analogue (SMS-201-995), Sandostatin, for cryptosporidial diarrhoea in patients with AIDS [letter] Clotet B, et al. **AIDS** 1989 Dec;3(12):857–8

Successful treatment of refractory post-vagotomy syndrome with verapamil (Calan SR) [letter] Tabibian N. **Am J Gastroenterol** 1990 Mar;85(3):328–9

Comparative efficacy of loperamide hydrochloride and bismuth subsalicylate in the management of acute diarrhea. DuPont HL, et al. **Am J Med** 1990 Jun 20;88(6A):15S–19S

A randomized, open-label comparison of nonprescription loperamide and attapulgite in the symptomatic treatment of acute diarrhea. DuPont HL, et al. **Am J Med** 1990 Jun 20;88(6A):20S–23S

Safety and efficacy of loperamide. Ericsson CD, et al. **Am J Med** 1990 Jun 20;88(6A):10S–14S (9 ref.)

Empiric antimicrobial therapy of domestically acquired acute diarrhea in urban adults. Goodman LJ, et al. **Arch Intern Med** 1990 Mar;150(3):541–6

Salmonella, Shigella and sugar [letter] Fulton JD, et al. **Br J Surg** 1990 May;77(5):593

Treatment of suspected postcholecystectomy diarrhea with psyllium hydrophilic mucilloid. Strommen GL, et al. **Clin Pharm** 1990 Mar;9(3):206–8

Bismuth therapy in gastrointestinal diseases. Gorbach SL. **Gastroenterology** 1990 Sep;99(3):863–75 (138 ref.)

Severe posthemicolectomy diarrhea: evaluation and treatment with SMS 201-995. Sharkey MF, et al. **Gastroenterology** 1990 Oct;99(4):1144–8

Acute diarrhoea in expatriates in Bangladesh [letter; comment] Ramage JK, et al. **Gut** 1990 Jan;31(1):123 Comment on: Gut 1989 Apr;30(4):492–5.

Hypoglycemia after administration of somatostatin analog (SMS 201-995) in metastatic carcinoid. Brunner JE, et al. **Henry Ford Hosp Med J** 1989;37(2):60–2

Efficacy of nalidixic acid in the treatment of acute bloody diarrhea. Khoshoo V, et al. **Indian Pediatr** 1989 Nov; 26(11):1135–8

Study of Rwandese medicinal plants used in the treatment of diarrhoea I. Maïkere-Faniyo R, et al. **J Ethnopharmacol** 1989 Sep;26(2):101–9

Drugs and diarrhoea. Khan MA, et al. **J Indian Med Assoc** 1989 May;87(5):125–6

New drug treatment for diarrhoea. Donowitz M, et al. **J Intern Med Suppl** 1990;732:155–63 (38 ref.)

Glucose polymers in diarrhea—high caloric density nutrients with low osmolality. Lebenthal E, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):1–4

Treatment of traveler's diarrhea with sulfamethoxazole and trimethoprim and loperamide. Ericsson CD, et al. **JAMA** 1990 Jan 12;263(2):257–61

A case of the watery diarrhea-hypokalemia-achlorhydria syndrome: successful preoperative treatment of watery diarrhea with a somatostatin analogue. Yoshioka M, et al. **Jpn J Clin Oncol** 1989 Sep;19(3):294–8

Quinolones in acute non-travellers' diarrhoea. **Lancet** 1990 Aug 4;336(8710):282 (21 ref.)

Fluoroquinolone-resistance in thermophilic Campylobacter spp isolated from stools of Spanish patients [letter] Reina J, et al. **Lancet** 1990 Jul 21;336(8708):186

Dispensing of inappropriate medicines for diarrhoea [letter] Yudkin JS. **Lancet** 1990 Mar 31;335(8692):803

Treatment of Clostridium difficile diarrhea. **Med Lett Drugs Ther** 1989 Oct 20;31(803):94–5

Treatment of endocrine and nonendocrine secretory diarrheal states with Sandostatin. Gaginella TS, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):172–5 (40 ref.)

Effect of bismuth subsalicylate on chronic diarrhea in childhood: a preliminary report. Gryboski JD, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 1:S36–40

Use of bismuth subsalicylate in acute diarrhea in children. Soriano-Brücher HE, et al. **Rev Infect Dis** 1990 Jan-Feb; 12 Suppl 1:S51–6

Worldwide efficacy of bismuth subsalicylate in the treatment of travelers' diarrhea. Steffen R. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 1:S80–6

Recent developments in the use of furazolidone and other antimicrobial agents in typhoid fever and infectious diarrheal disease. **Scand J Gastroenterol Suppl** 1989; 169:1–80

Progress in therapy for infectious diarrhea. DuPont HL. **Scand J Gastroenterol Suppl** 1989;169:1–3

A comparison of furazolidone and ampicillin in the treatment of invasive diarrhea. Prado Camacho JL. **Scand J Gastroenterol Suppl** 1989;169:54–9

A randomized, controlled, single-blind study comparing furazolidone with trimethoprim-sulfamethoxazole in the empirical treatment of acute invasive diarrhea. Rodriguez RS, et al. **Scand J Gastroenterol Suppl** 1989;169:47–53

Absorption, distribution, metabolism, and excretion of furazolidone. A review of the literature. White AH. **Scand J Gastroenterol Suppl** 1989;169:4–10 (13 ref.)

Loperamide (imodium)—clinical trial. Dzieniszewski J, et al. **Ther Hung** 1990;38(2):60–3

The somatostatin analog octreotide in the management of the secretory diarrhea of the acute intestinal graft-versus-host disease in a patient after bone marrow transplantation. Bianco JA, et al. **Transplantation** 1990 Jun; 49(6):1194–5

Diluted yogurt (ayran) versus water in dissolving oral rehydration salts. Cağlayan S, et al. **Turk J Pediatr** 1989 Jan-Mar;31(1):25–7

[Antidiarrheal and anti-inflammatory effects of berberine] Zhang MF, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Mar; 10(2):174–6 (Eng. Abstr.) **(Chi)**

[Efficacy of long-acting somatostatin in refractory diarrhea in 2 patients with AIDS] Routy JP, et al. **Ann Med Interne (Paris)** 1989;140(8):737–8 **(Fre)**

[Effect of azidothymidine on cryptosporia diarrhea in a patient with acquired immunodeficiency syndrome (letter)] Sogni P, et al. **Gastroenterol Clin Biol** 1989 Dec; 13(12):1087–8 **(Fre)**

[An antidiarrheal agent in the testing stage. Tannacomp workshop. 22–23 July 1989, Hamburg. Abstracts] **Fortschr Med** 1989;107 Suppl 69:1–7 **(Ger)**

[Imodium for chronic diarrhea. Improving the quality of life. Report of the 44th meeting of the German Society for Digestive and Metabolic Diseases, 28 September 1989] **Fortschr Med** 1989;107 Suppl 77:1–14 **(Ger)**

[In vitro sensitivity of Aeromonas spp. to antibiotics] Mascher F. **Wien Med Wochenschr** 1990 Feb 15;140(3):57–8 (Eng. Abstr.) **(Ger)**

[Oral bacteriotherapy with Bifidobacterium bifidum and Lactobacillus acidophilus in cirrhotic patients] Colle R, et al. **Clin Ter** 1989 Dec 31;131(6):397–402 (Eng. Abstr.) **(Ita)**

[Clinical trial of T-3262 (Tosufloxacin tosilate) on Salmonella enteritis, and fecal drug concentration and change in the fecal microflora in the acute diarrheal patients. Japan Research Committee of T-3262, Research Group for Acute Infectious Enteritis] Aoki T, et al. **Kansensbogaku Zasshi** 1989 Jul;63(7):659–75 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of loperamide (Imodium)] Dzieniszewski J, et al. **Wiad Lek** 1989 Jul 1–15;42(13–15):849–53 (Eng. Abstr.) **(Pol)**

[Usefulness of the somatostatin analog SMS 201-995 in the treatment of diarrhea in patients infected with the human immunodeficiency virus (letter)] Mallolas J, et al. **Med Clin (Barc)** 1990 Apr 7;94(13):516 **(Spa)**

[Diet and loperamide are better than norfloxacin in tourist diarrhea] Eitrem R. **Lakartidningen** 1990 Aug 8; 87(32–33):2491–2 **(Swe)**

[It is wrong to prescribe antibiotics for self medication in travellers' diarrhea] Forsberg B, et al. **Lakartidningen** 1990

May 2;87(18):1559 (Swe)

EPIDEMIOLOGY

Mild vitamin A deficiency and risk of respiratory tract diseases and diarrhea in preschool and school children in northeastern Thailand. Bloem MW, et al. **Am J Epidemiol** 1990 Feb;131(2):332–9

The incidence of viral-associated diarrhea after admission to a pediatric hospital. Ford-Jones EL, et al. **Am J Epidemiol** 1990 Apr;131(4):711–8

A statewide outbreak of Escherichia coli 0157:H7 infections in Washington State. Ostroff SM, et al. **Am J Epidemiol** 1990 Aug;132(2):239–47

A prospective study of persistent diarrhea among children in an urban Brazilian slum. Patterns of occurrence and etiologic agents. Schorling JB, et al. **Am J Epidemiol** 1990 Jul;132(1):144–56

Acute diarrhea in developed countries. A rationale for self-treatment. Johnson PC, et al. **Am J Med** 1990 Jun 20; 88(6A):5S–9S (34 ref.)

Telematics: a new tool for epidemiological surveillance of diarrhoeal diseases in the Aquitaine sentinel network. Maurice S, et al. **BMJ** 1990 Feb 24;300(6723):514–6

Risk factors for acute childhood diarrhea in the highlands of Chiapas, Mexico: a strategy for intervention. Riley LW, et al. **Bull Pan Am Health Organ** 1990;24(2):210–6

Cockroaches (Periplaneta americana) as carriers of agents of bacterial diarrhoea in Accra, Ghana. Agbodaze D, et al. **Cent Afr J Med** 1989 Sep;35(9):484–6

Diarrheal diseases survey guide. **Epidemiol Bull** 1990;11(2):14

Does malnutrition predispose to diarrhoea during childhood? Evidence from a longitudinal study in Matlab, Bangladesh. Chowdhury MK, et al. **Eur J Clin Nutr** 1990 Jul; 44(7):515–25

Lack of impact of a water and sanitation intervention on the nutritional status of children in rural Bangladesh. Hasan KZ, et al. **Eur J Clin Nutr** 1989 Dec;43(12):837–43

Traveller's diarrhea among Austrian tourists to warm climate countries: II. Clinical features. Kollaritsch H. **Eur J Epidemiol** 1989 Sep;5(3):355–62

Epidemiology of acute diarrhea in children living in Sicily. Lupo L, et al. **Eur J Epidemiol** 1989 Sep;5(3):400–2

Bioecological factors & rotavirus diarrhoea. Ram S, et al. **Indian J Med Res** 1990 May;91:167–70

Impact of acute diarrhoea & oral rehydration solution on nutritional status of preschool children. Walia BN, et al. **Indian J Med Res** 1989 Dec;90:415–25

Prevalence of cryptosporidium in children with acute diarrhea. Pherwani AV, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):133–5

Chronic diarrhoeal illness in US Peace Corps volunteers. Addiss DG, et al. **Int J Epidemiol** 1990 Mar;19(1):217–8

Persistent diarrhoea in a rural area of Bangladesh: a community-based longitudinal study. Huttly SR, et al. **Int J Epidemiol** 1989 Dec;18(4):964–9

Incidence of sporadic infections due to enterotoxigenic Escherichia coli (ETEC) in the population of Hamburg, north Germany. Bockemühl J, et al. **Int J Med Microbiol** 1989 Nov;272(1):58–64

Seroepidemiology of adult diarrhea rotavirus in China, 1977 to 1987. Penaranda ME, et al. **J Clin Microbiol** 1989 Oct; 27(10):2180–3

Relative prevalence of rotavirus diarrhoea in children attending outpatient departments of hospitals and general practitioners in Sao Paulo, Brazil. Candeias JA, et al. **J Diarrhoeal Dis Res** 1989 Mar–Jun;7(1–2):24–7

Mothers' definition of diarrhoea in a suburban community in Tanzania. Killewo JZ, et al. **J Diarrhoeal Dis Res** 1989 Mar–Jun;7(1–2):21–3

Epidemiology of Aeromonas and Plesiomonas diarrhoea. Sack DA, et al. **J Diarrhoeal Dis Res** 1988 Jun;6(2):107–12 (19 ref.)

The effect of misclassification of diarrhoea on estimates of its occurrence, the identification of risk factors, and the assessment of prevention efforts. Thomas JC, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):63–9

Prevalence and serotype specificity of rotavirus antibodies in different age groups of Ecuadorian infants. Brüssow H, et al. **J Infect Dis** 1990 Sep;162(3):615–20

Age-specific prevalence of antibody to enterotoxigenic Escherichia coli in Ecuadorian and German children. Brüssow H, et al. **J Infect Dis** 1990 Oct;162(4):974–7

Investigation of an outbreak of adult diarrhea rotavirus in China. Fang ZY, et al. **J Infect Dis** 1989 Dec;160(6):948–53

Vibrio gastroenteritis in Louisiana: a prospective study among attendees of a scientific congress in New Orleans. Lowry PW, et al. **J Infect Dis** 1989 Dec;160(6):978–84

Risk factors for Clostridium difficile carriage and C. difficile-associated diarrhea in a cohort of hospitalized patients. McFarland LV, et al. **J Infect Dis** 1990 Sep; 162(3):678–84

Epidemiological study of enteric coronavirus excretion by an enzyme-linked immunosorbent assay. Leechanachai P, et al. **J Med Assoc Thai** 1989 Aug;72(8):452–7

Host factors in childhood diarrhoea. Khan MA, et al. **J R Soc Health** 1990 Jun;110(3):94–5

Transmission of diarrhoea in two crowded areas with different sanitary facilities in Dhaka, Bangladesh. Henry FJ, et al. **J Trop Med Hyg** 1990 Apr;93(2):121–6

Annual rotavirus epidemic patterns in North America. Results of a 5-year retrospective survey of 88 centers in Canada, Mexico, and the United States. Rotavirus Study Group. LeBaron CW, et al. **JAMA** 1990 Aug 22–29; 264(8):983–8

Circulation flow of enteropathogenic bacteria in institutionalized children. I. An epidemiologic study. Lacerda MD, et al. **Mem Inst Oswaldo Cruz** 1988 Oct–Dec; 83(4):465–70

Travelers' diarrhea among U.S. Navy and Marine Corps personnel during a Western Pacific deployment. Adkins H, et al. **Milit Med** 1990 Mar;155(3):111–6

Rotavirus diarrhea in Jewish and Bedouin children in the Negev region of Israel: epidemiology, clinical aspects and possible role of malnutrition in severity of illness. Dagan R, et al. **Pediatr Infect Dis J** 1990 May;9(5):314–21

Epidemiology of travelers' diarrhea and relative importance of various pathogens. Black RE. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S73–9 (62 ref.)

Diarrhea in developed and developing countries: magnitude, special settings, and etiologies. Guerrant RL, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S41–50 (72 ref.)

The impact of improvement of water supply and sanitation facilities on diarrhea and intestinal parasites: a Brazilian experience with children in two low-income urban communities. Gross R, et al. **Rev Saude Publica** 1989 Jun; 23(3):214–20

Acute diarrhoeal disease in India and Indonesia. Edmundson SA, et al. **Soc Sci Med** 1989;29(8):991–7

Nutritional status and the incidence and duration of diarrhoeal disease among children in northeast Thailand. Thongkrajai E, et al. **Soc Sci Med** 1990;30(7):773–6

The Imo State (Nigeria) Drinking Water Supply and Sanitation Project, 2. Impact on dracunculiasis, diarrhoea and nutritional status. Huttly SR, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):316–21

Epidemiology and aetiology of acute childhood diarrhoea in Burma: a rural community survey. Tin-Aye, et al. **Trans R Soc Trop Med Hyg** 1989 Nov–Dec;83(6):827–30

Traveler's diarrhea–I. Definition, etiology and epidemiology. Broor SL, et al. **Trop Gastroenterol** 1989 Oct–Dec; 10(4):194–200 (34 ref.)

Health impact evaluation of improved water supplies and hygiene practices in Sri Lanka: background and methodology. Mertens TE, et al. **Trop Med Parasitol** 1990 Mar;41(1):79–88

Childhood diarrhoea in Sri Lanka: a case-control study of the impact of improved water sources. Mertens TE, et al. **Trop Med Parasitol** 1990 Mar;41(1):98–104

[A primary study on molecular epidemiology of diarrhea caused by enterotoxigenic Escherichia coli by DNA colony hybridization using three enterotoxigenic gene-probes] Yu S. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Jun; 11(3):175–8 (Eng. Abstr.) (Chi)

[Household survey of diarrhoeal disease control in P.R. china] Yu WL. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):257–60 (Eng. Abstr.) (Chi)

[The epidemiological investigation on diarrhea caused by bacteria in Fujian province] Chen KC. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Jul;23(4):230–3 (Eng. Abstr.) (Chi)

[Frequency and characteristics of Campylobacter jejuni–coli diarrhea in Tunisia] Fendri C, et al. **Bull Soc Pathol Exot Filiales** 1989;82(5):645–9 (Eng. Abstr.) (Fre)

[Giardia infections in humans] Flentje B. **Angew Parasitol** 1989 Aug;30(3):167–71 (Eng. Abstr.) (Ger)

[Epidemiology of salmonellosis] Böhme G, et al. **Z Gesamte Hyg** 1989 Nov;35(11):638–40 (Eng. Abstr.) (Ger)

[The development of acute gastroenteritis in the German Democratic Republic] Rasch G, et al. **Z Gesamte Hyg** 1989 Nov;35(11):634–8 (Eng. Abstr.) (Ger)

[Salmonella occurrence in the Erfurt district] Ullmann R, et al. **Z Gesamte Hyg** 1989 Nov;35(11):676–9 (Eng. Abstr.) (Ger)

ETIOLOGY

An etiological study of infectious diarrhea in infants and children in Taipei area. Chyou SC, et al. **Acta Paediatr Sin** 1988 Jul–Aug;29(4):213–20

Diarrhea and short-chain fatty acids in disaccharide malabsorption; regulation of colonic fermentation. Holtug K, et al. **Acta Vet Scand Suppl** 1989;86:143–5

Gastrocolic fistula presenting as acute diarrhea. Russell LJ, et al. **Am Fam Physician** 1989 Oct;40(4):223–5

Herpes simplex virus type 1 colitis: an unusual cause of diarrhea. Colemont LJ, et al. **Am J Gastroenterol** 1990 Sep; 85(9):1182–5

Diarrhea presenting as a rare manifestation of sarcoid [letter] Sorokin R, et al. **Am J Gastroenterol** 1990 Sep;85(9):1197–8

Infectious diarrhea secondary to Enteromonas hominis [see comments] Spriegel JR, et al. **Am J Gastroenterol** 1989 Oct;84(10):1313–4 Comment in: Am J Gastroenterol 1990 Apr;85(4):480. Comment in: Am J Gastroenterol 1990 Jun;85(6):764–5.

Gastrointestinal manifestations of Addison's disease. Tobin MV, et al. **Am J Gastroenterol** 1989 Oct;84(10):1302–5

Diarrhea in tube-fed patients: feeding formula not necessarily the cause. Edes TE, et al. **Am J Med** 1990 Feb;88(2):91–3

Diarrhea with enteral feeding: will the real cause please stand up? [editorial] Heimburger DC. **Am J Med** 1990 Feb; 88(2):89–90

Acute diarrhea associated with travel. Wolfe MS. **Am J Med** 1990 Jun 20;88(6A):34S–37S (25 ref.)

Altered intestinal motility precedes diarrhea during Escherichia coli enteric infection. Sjogren RW, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G725–31

Clostridium difficile diarrhea and colonization after treatment with abdominal infection regimens containing clindamycin or metronidazole. Gerding DN, et al. **Am J Surg** 1990 Feb; 159(2):212–7

Cryptosporidiosis: a cause of diarrhea in Bangladesh [published erratum appears in Am J Trop Med Hyg 1990 Jun;42(6):514] Rahman M, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):127–30

Cryptosporidial carriage without symptoms in the acquired immunodeficiency syndrome (AIDS) [letter] Janoff EN, et al. **Ann Intern Med** 1990 Jan 1;112(1):75–6

Life-threatening diarrhea after short-term misoprostol use in a patient with Crohn ileocolitis. Kornbluth A, et al. **Ann Intern Med** 1990 Sep 15;113(6):474–5

Hyperkalemia associated with diarrhea [letter] Yap AS, et al. **Ann Intern Med** 1990 Mar 15;112(6):470

Viral gastro-enteritis in children in Malawi. Pavone R, et al. **Ann Trop Paediatr** 1990 Mar;10(1):15–20

Helicobacter pylori in Gambian children with chronic diarrhoea and malnutrition. Sullivan PB, et al. **Arch Dis Child** 1990 Feb;65(2):189–91

Diabetic diarrhea. Pathophysiology, diagnosis, and management. Ogbonnaya KI, et al. **Arch Intern Med** 1990 Feb;150(2):262–7 (63 ref.)

Estimation of the incidence of halophilic vibrios—Vibrio parahaemolyticus and Vibrio alginolyticus—in the water and fauna of the Black Sea: possible relationship with the diarrheic disease. Rusu V, et al. **Arch Roum Pathol Exp Microbiol** 1979 Jul–Dec; 38(3–4):279–88

Diarrhoea due to cryptosporidium infection in thalassaemia major. Gledhill JA, et al. **BMJ** 1990 Jul 28;301(6745):212–3

Lager louts—LAGER arthritis [letter] Hughes RA. **Br J Rheumatol** 1989 Dec;28(6):555–6

Gastrointestinal symptoms attributed to jejunostomy feeding after major abdominal trauma—a critical analysis. Jones TN, et al. **Crit Care Med** 1989 Nov;17(11):1146–50

Isotonic nasogastric tube feedings: do they cause diarrhea? Pesola GE, et al. **Crit Care Med** 1989 Nov;17(11):1151–5

Diarrhea as a presenting symptom of hepatocellular carcinoma. Bruix J, et al. **Dig Dis Sci** 1990 Jun;35(6):681–5

Anorexia, weight loss, and diarrhea as presenting symptoms of angiokeratoma corporis diffusum (Fabry-Anderson's disease). Nelis GF, et al. **Dig Dis Sci** 1989 Nov; 34(11):1798–800

Infectious enteritis. A collective review. Fry RD. **Dis Colon Rectum** 1990 Jun;33(6):520–7 (73 ref.)

The occurrence of Cryptosporidium oocysts in faecal samples submitted for routine examination at Kenyatta National Hospital. Estambale BB, et al. **East Afr Med J** 1989 Dec; 66(12):792–5

Cryptosporidiosis and childhood diarrhoea in a rural community in Kenya. Simwa JM, et al. **East Afr Med J** 1989 Aug;66(8):520–5

Environmental sanitation, food and water contamination and diarrhoea in rural Bangladesh. Henry FJ, et al. **Epidemiol Infect** 1990 Apr;104(2):253–9

Diarrhea and malabsorption in the elderly. Holt PR. **Gastroenterol Clin North Am** 1990 Jun;19(2):345–59 (71 ref.)

Additive effects of ileal secretagogues in the rat. Charney AN, et al. **Gastroenterology** 1990 Apr;98(4):881–7

Candida-associated diarrhea in hospitalized patients. Gupta TP, et al. **Gastroenterology** 1990 Mar;98(3):780–5

A double-blind, controlled trial of bioflorin (Streptococcus faecium SF68) in adults with acute diarrhea due to Vibrio cholerae and enterotoxigenic Escherichia coli. Mitra AK, et al. **Gastroenterology** 1990 Oct;99(4):1149–52

Severe posthemicolectomy diarrhea: evaluation and treatment with SMS 201–995. Sharkey MF, et al. **Gastroenterology** 1990 Oct;99(4):1144–8

Prevalence of surreptitious laxative abuse in patients with diarrhoea of uncertain origin: a cost benefit analysis of a screening procedure. Bytzer P, et al. **Gut** 1989 Oct; 30(10):1379–84

Investigation of seemingly pathogen-negative diarrhoea in patients infected with HIV1. Connolly GM, et al. **Gut** 1990 Aug;31(8):886–9

Diarrhoea of famine and malnutrition: investigations using a rat model. 1. Jejunal hypersecretion induced by starvation. Young A, et al. **Gut** 1990 Jan;31(1):43–53

Contamination of enteral feedings and diarrhea in patients in intensive care units. Mickschl DB, et al. **Heart Lung** 1990 Jul;19(4):362–70

Postoperative abdominal pain and diarrhea. Glatt AE. **Hosp Pract [Off]** 1990 Jan 15;25(1):46, 48, 50

Intestinal microsporidiosis as a cause of diarrhea in human immunodeficiency virus-infected patients: a report of 20 cases. Orenstein JM, et al. **Hum Pathol** 1990 May; 21(5):475–81

Diarrhea in medullary carcinoma of thyroid [letter; comment] Misra SC, et al. **Indian J Gastroenterol** 1989 Oct;8(4):308 Comment on: Indian J Gastroenterol 1989 Jul;8(3):195–6.

Cholera gastroenteritis amongst children in Delhi. Aggarwal P, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):93–6

Aggregative Escherichia coli, Salmonella, and Shigella are associated with increasing duration of diarrhea. Bhan MK, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):81–6

Cryptosporidium causing chronic diarrhea. Sehgal R, et al.

Indian J Pediatr 1989 Jan–Feb;56(1):129–31

Risk factors for Clostridium difficile toxin–associated diarrhea. Brown E, et al. **Infect Control Hosp Epidemiol** 1990 Jun;11(6):283–90

Emporiatrics: the study of diseases in travelers. Nettleman MD. **Infect Control Hosp Epidemiol** 1990 Mar;11(3):157–60

Identification of plasmid–encoded mannose–resistant hemagglutinin and HEp–2 and HeLa cell adherence factors of two diarrheagenic Escherichia coli strains belonging to an enteropathogenic serogroup. Pal R, et al. **Infect Immun** 1990 Apr;58(4):1106–13

The use of nutritional status as a second outcome measure in case–control studies of environmental risk factors for diarrhoeal diseases. Cousens SN, et al. **Int J Epidemiol** 1989 Sep;18(3):701–4

Bowel complications after radiotherapy for carcinoma of the prostate: the volume effect. Mameghan H, et al. **Int J Radiat Oncol Biol Phys** 1990 Feb;18(2):315–20

Diarrhoea during enteral feeding in the critically ill: a comparison of feeds with and without fibre. Dobb GJ, et al. **Intensive Care Med** 1990;16(4):252–5

Aeromonas hydrophila diarrhea in a long–term care setting. Bloom HG, et al. **J Am Geriatr Soc** 1990 Jul;38(7):804–6

Chronic watery diarrhea due to a surgical pack in the ileal lumen. Dharamsi RD, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):239–41

Diarrhea in hypothyroidism: bacterial overgrowth as a possible etiology. Goldin E, et al. **J Clin Gastroenterol** 1990 Feb;12(1):98–9

Description of a medium for isolating Anaerobiospirillum spp., a possible cause of zoonotic disease, from diarrheal feces and blood of humans and use of the medium in a survey of human, canine, and feline feces. Malnick H, et al. **J Clin Microbiol** 1990 Jun;28(6):1380–4

Comparison of a dot immunobinding assay, latex agglutination, and cytotoxin assay for laboratory diagnosis of Clostridium difficile–associated diarrhea. Woods GL, et al. **J Clin Microbiol** 1990 May;28(5):855–7

Bacterial and viral causes of acute diarrhoea in children in Kuwait. Sethi SK, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):85–8

Aeromonas associated diarrhoea in an otherwise healthy 70–year–old man [letter] Cryan B, et al. **J Infect** 1990 Mar; 20(2):169–70

Enterotoxins and adhesins of enterotoxigenic Escherichia coli: are they risk factors for acute diarrhea in the community? López–Vidal Y, et al. **J Infect Dis** 1990 Aug; 162(2):442–7

Hygienic status of food handlers. Dumavibhat B, et al. **J Med Assoc Thai** 1989 Oct;72(10):577–82

Microscopic colitis: a new cause of chronic diarrhea in children? Mashako MN, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):21–6

An outbreak of Clostridium difficile associated diarrhoea in urological practice: a potential consequence of excessive antibiotic prophylaxis? Hastie KJ, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):146–8

Towards selecting the vagotomy and avoiding diarrhoea. Milewski PJ. **J R Coll Surg Edinb** 1990 Feb;35(1):11–5

Collagenous colitis as a cause of chronic diarrhea [see comments] Bott SJ. **J S C Med Assoc** 1990 Feb;86(2):83–7 Comment in: J S C Med Assoc 1990 Feb;86(2):115–6.

Collagenous colitis [editorial; comment] Vasudeva R. **J S C Med Assoc** 1990 Feb;86(2):115–6 Comment on: J S C Med Assoc 1990 Feb;86(2):85–7.

Measles–associated diarrhoea in the Infectious Diseases Hospital, Rangoon. Han AM, et al. **J Trop Med Hyg** 1990 Jun;93(3):205–9

Diarrhoea due to intestinal parasites. Ebrahim GJ. **J Trop Pediatr** 1990 Jun;36(3):98–100 (6 ref.)

Enteral feeding in the hypoalbuminemic patient. Patterson ML, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):362–5

Is "Campylobacter upsaliensis" an unrecognised cause of human diarrhoea? Goossens H, et al. **Lancet** 1990 Mar 10; 335(8689):584–6

Clostridium difficile carriage after infection [letter] Issack MI, et al. **Lancet** 1990 Mar 10;335(8689):610–1

Nosocomial Clostridium difficile colonisation and disease. Johnson S, et al. **Lancet** 1990 Jul 14;336(8707):97–100

Atypical rotavirus among diarrhoeic children living in Belém, Brazil. Gabbay YB, et al. **Mem Inst Oswaldo Cruz** 1990 Jan–Mar;84(1):5–8

Diarrhea associated with tube feeding in mechanically ventilated critically ill patients. Smith CE. et al. **Nurs Res** 1990 May–Jun;39(3):148–52

Diarrhea complicating enteral feeding after liver transplantation. Benya R, et al. **Nutr Rev** 1990 Mar; 48(3):148–52

Lack of a role of the duodenal microflora in pathogenesis of persistent diarrhea and diarrhea–related malabsorption in Peruvian children. Penny ME, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):479–87

Microbial etiology of acute gastroenteritis in hospitalized children in Kuwait. Sethi SK, et al. **Pediatr Infect Dis J** 1989 Sep;8(9):593–7

Other causes of diarrhea [letter; comment] Crook WG. **Postgrad Med** 1990 Mar;87(4):37 Comment on: Postgrad Med 1989 Dec;86(8):151–9.

Exotic diarrhoeal problems and poliomyelitis. Cobden I. **Practitioner** 1989 Jun 22;233(1471):927–31

Decreased concentrations of deoxycholic acid in serum of uraemic patients with diarrhoea. Stenvinkel P, et al. **Scand J Clin Lab Invest** 1990 May;50(3):337–41

Aetiology, medical history, and faecal weight in adult patients referred for diarrhoea. A prospective survey. Bytzer P, et al. **Scand J Gastroenterol** 1990 Jun;25(6):572–8

Bacterial contamination of the small bowel evaluated by breath tests, 75Se–labelled homocholic–tauro acid, and scanning electron microscopy. Suhr O, et al. **Scand J Gastroenterol** 1990 Aug;25(8):841–52

Predictors of simple diarrhoea in children under 5 years—a study of a Sudanese rural community. el Samani FZ, et al. **Soc Sci Med** 1989;29(9):1065–70

Etiology of acute childhood diarrhoea in Calcutta. Chatterjee BD, et al. **Trop Gastroenterol** 1989 Jul–Sep;10(3):158–66

Enterotoxin induced diarrhoea—an update. Nair GB, et al. **Trop Gastroenterol** 1989 Jul–Sep;10(3):133–41 (116 ref.)

Highly selective vagotomy combined with cholecystectomy: is there an increased risk of diarrhea? Schein M. **World J Surg** 1989 Nov–Dec;13(6):782–4; discussion 785

Diarrhea and fecal impaction in elderly long–stay patients. Kinnunen O, et al. **Z Gerontol** 1989 Nov–Dec;22(6):321–3

[A survey on Campylobacter jejuni high infection in a nursery] Chen ZX, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):445–7 (Eng. Abstr.) (Chi)

[Runner's diarrhea] Elsborg L. **Ugeskr Laeger** 1990 Jul 30; 152(31):2246 (Eng. Abstr.) (Dan)

[Bloody diarrhea in imported illnesses] Kager PA. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2075–6 (Dut)

[Amebic dysentery; diarrhea with blood and mucus urges to a study of the feces] Kager PA. **Ned Tijdschr Geneeskd** 1989 Oct 14;133(41):2025–6 (Dut)

[Carbohydrate digestion and intestinal function disorders] Beaugerie L. **Ann Gastroenterol Hepatol (Paris)** 1990 Mar–Apr;26(2):67–70 (15 ref.) (Fre)

[Antibiotic associated diarrhea] Levecq H, et al. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):147–56 (Fre)

[Chronic diarrhea and parasitoses in adults suspected of AIDS in the Ivory Coast] Therizol–Ferly PM, et al. **Bull Soc Pathol Exot Filiales** 1989;82(5):690–3 (Eng. Abstr.) (Fre)

[Acute diarrhea in adults in a Parisian district. Clinical, bacteriologic endoscopic and histologic aspects. Study of 52 cases] Roussin Bretagne S, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):804–10 (Eng. Abstr.) (Fre)

[Aeromonas hydrophila in the drinking water in Djibouti: commensal germ or diarrhea–causing agent?] Fox E, et al. **Med Trop (Mars)** 1990 Apr;50(2):237–9 (Eng. Abstr.) (Fre)

[Infectious diarrhea in African acquired immunodepression syndrome (AIDS). Apropos of 100 patients studied in Bujumbura (Burundi)] Kadende P, et al. **Med Trop (Mars)** 1989 Apr–Jun;49(2):129–33 (Eng. Abstr.) (Fre)

[Prevalence of cryptosporidiosis in infantile diarrhea in Casablanca (letter)] Guessous–Idrissi N, et al. **Presse Med** 1990 Mar 3;19(8):379 (Fre)

[A 28–year–old patient with chronic diarrhea, liver disease, pericarditis and polyarthritis. A case report with special reference to the differential diagnosis of arthritis] Hundegger K, et al. **Internist (Berl)** 1990 Mar;31(3):245–8 (Ger)

[Ischemic colitis as a cause of colon–engendered diarrhea] Huber FB. **Schweiz Rundsch Med Prax** 1990 Jul 17; 79(29–30):882–4 (Eng. Abstr.) (Ger)

[Diarrhea cause by parasites] Marbet UA. **Schweiz Rundsch Med Prax** 1990 Jul 17;79(29–30):877–81 (Eng. Abstr.) (Ger)

[Rational diagnosis of the small intestine] Caspary WF. **Z Gastroenterol [Verh]** 1990 Apr;25:17–21 (17 ref.) (Ger)

[The 75–seleno–homocholic acid–taurine test (SeHCAT). A useful method for detecting the idiopathic malabsorption of bile salts in chronic functional diarrhea] D'Arienzo A, et al. **Clin Ter** 1989 Jul 15;130(1):11–6 (Eng. Abstr.) (Ita)

[Acute diarrhea: recent etiopathogenetic findings] Zanchetta S, et al. **Pediatr Med Chir** 1989 Sep–Oct;11(5):501–5 (34 ref.) (Eng. Abstr.) (Ita)

[Generalized hemorrhagic diathesis and anemia of sudden onset caused by rhabdomyolysis diagnosed as acute leukosis] Storti E. **Recenti Prog Med** 1990 Mar;81(3):152–7 (35 ref.) (Eng. Abstr.) (Ita)

[Various theories on the pathogenesis of diarrhea and malabsorption syndromes in Giardia intestinalis infection] Szczepański M, et al. **Przegl Lek** 1989;46(11):774–8 (40 ref.) (Pol)

[The role of disorders of secretion of pancreatic enzymes and bile and bacterial contamination of the small intestine in the pathogenesis of diarrhea in patients with celiac disease] Loginov AS, et al. **Klin Med (Mosk)** 1989 Nov; 67(11):81–5 (Eng. Abstr.) (Rus)

[The adhesins of enterotoxigenic Escherichia coli: their role in the pathogenesis of diarrhea and their genetic control] Petrovskaia VG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):110–7 (52 ref.) (Rus)

[Mesenteric thrombosis as a problem in the differential diagnosis of diarrheal diseases in geriatrics] Telalbašić S, et al. **Med Arh** 1988;42(5–6):265–7 (Scr)

[The role of rotaviruses as a cause of acute diarrhea in children and adolescents] Zvizdić S, et al. **Med Arh** 1988; 42(5–6):257–60 (Eng. Abstr.) (Scr)

[Chronic diarrhea as a clinical expression of common variable hypogammaglobulinemia: apropos of 3 cases] Aldrey O, et al. **GEN** 1989 Jan–Mar;43(1):34–8 (Eng. Abstr.) (Spa)

GENETICS

Multi–gene amplification: simultaneous detection of three virulence genes in diarrhoeal stool. Frankel G, et al. **Mol Microbiol** 1989 Dec;3(12):1729–34

HISTORY

American Journal of the Medical Sciences, Volume 245, 1963: Weanling diarrhea [classical article] Gordon JE, et al. **Nutr Rev** 1990 May;48(5):215–7

[An unfinished culture, or diarrhea has its own history] Treviño–García Manzo N. **Gac Med Mex** 1990 Jan–Feb; 126(1):3–6 (Spa)

IMMUNOLOGY

An observational study of naturally acquired immunity to rotaviral diarrhea in a cohort of 363 Egyptian children. Calculation of risk for second episodes using age–specific person–years of observation. Reves RR, et al. **Am J Epidemiol** 1989 Nov;130(5):981–8

Immunoblot analysis of serum immunoglobulin G response to surface proteins of Clostridium difficile in patients with antibiotic–associated diarrhea. Pantosti A, et al. **J Clin Microbiol** 1989 Nov;27(11):2594–7

Seroepidemiologic evaluation of anti–toxic and anti–colonization factor immunity against infections by LT–producing Escherichia coli in rural Bangladesh. Clemens JD, et al. **J Infect Dis** 1990 Aug;162(2):448–53

Raised stool and serum IgA levels in undernourished infants with chronic diarrhoea and associated parasitic infestations. Saha K, et al. **J Trop Pediatr** 1990 Apr;36(2):69–74

Antigen absorption in bacterial diarrhea: in vivo intestinal transport of beta–lactoglobulin in rabbits infected with the entero–adherent Escherichia coli strain RDEC–1. Gotteland M, et al. **Pediatr Res** 1989 Sep;26(3):237–40

Serum anti–gliadin antibody profile in childhood protracted diarrhoea due to coeliac disease and other causes in a developing country. Khoshoo V, et al. **Scand J Gastroenterol** 1989 Dec;24(10):1212–6

[Immunologic aspects of chronic diarrhea in relation to inflammatory intestinal disease] Velo Bellver JL, et al. **Rev Esp Enferm Apar Dig** 1989 Sep;76(3):229–32 (Eng. Abstr.) (Spa)

METABOLISM

Comparison of endogenous and radiolabeled bile acid excretion in patients with idiopathic chronic diarrhea. Schiller LR, et al. **Gastroenterology** 1990 Apr;98(4):1036–43

Na+–dependent bile acid transport in the ileum: the balance between diarrhea and constipation. van Tilburg AJ, et al. **Gastroenterology** 1990 Jan;98(1):25–32

Serum and rectal mucosal zinc levels in acute and chronic diarrhea. Sachdev HP, et al. **Indian Pediatr** 1990 Feb; 27(2):125–33

Mineral excretion during acute, dehydrating diarrhea treated with oral rehydration therapy. Ruz M, et al. **Pediatr Res** 1990 Feb;27(2):170–5

[Colonic fermentation: physiological review and role in digestive pathology] Rambaud JC, et al. **Schweiz Med Wochenschr** 1990 Apr 7;120(14):489–95 (26 ref.) (Eng. Abstr.) (Fre)

[Comparative study of nitrogen, lipids and energy loss through the feces in children dehydrated by acute diarrhea due to rotavirus and other agents] Römer H, et al. **GEN** 1989 Jan–Mar;43(1):23–7 (24 ref.) (Eng. Abstr.) (Spa)

MICROBIOLOGY

Persistent diarrhea secondary to Candida overgrowth [letter] Margolis BD, et al. **Am J Gastroenterol** 1990 Mar; 85(3):329–30

In vitro activities of tosufloxacin, temafloxacin, and A–56620 against pathogens of diarrhea. Bryan JP, et al. **Antimicrob Agents Chemother** 1990 Feb;34(2):368–70

Antimicrobial susceptibility of Plesiomonas shigelloides from patients with diarrhea. Kain KC, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1609–10

Emergence of resistant fecal Escherichia coli in travelers not taking prophylactic antimicrobial agents. Murray BE, et al. **Antimicrob Agents Chemother** 1990 Apr;34(4):515–8

In vitro activities of lomefloxacin and temafloxacin against pathogens causing diarrhea. Segreti J, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1385–7

Rapid diagnosis of Clostridium difficile–associated diarrhoea using a latex agglutination test. Jung K, et al. **APMIS** 1990 Jul;98(7):652–4

Rotavirus serotypes causing acute diarrhoea in hospitalized children in Yogyakarta, Indonesia during 1978–1979. Bishop RF, et al. **Arch Virol** 1989;107(3–4):207–13

Lack of association of Escherichia coli exhibiting both mannose–resistant haemagglutination and diffuse adherence to HEp–2 cells with acute diarrhoea in children. Cobeljić M, et al. **Epidemiol Infect** 1990 Feb;104(1):127–33

Escherichia coli 0157:H7 infections associated with perforated appendicitis and chronic diarrhoea. Cimolai N, et al. **Eur J Pediatr** 1990 Jan;149(4):259–60

HEp–2 cell adherence and Vero cell cytotoxin production by EPEC strains isolated from children with diarrhoea in New Zealand. Gunzburg ST, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):181–5

Effect of oligomannoside–type glycopeptides in diarrheal disease of rabbits induced by Escherichia coli strain RDEC–1. Sherman P, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1–2):121–5

C difficile diarrhea: a common—and overlooked—nursing home infection. Bennett RG, et al. **Geriatrics** 1990 Sep; 45(9):77–8, 83–7

Aeromonas species in human septicaemia & diarrhoea. Jesudason MV, et al. **Indian J Med Res** 1990 May;91:174–6

Evaluation of coagglutination test for serotyping of enteropathogenic bacteria. Ram S, et al. **Indian J Med Res** 1989 Sep;89:290–6

Studies on the pathogenicity of classical enteropathogenic Escherichia coli strains isolated from acute diarrhoea among children 0–5 years of age. Ananthan S, et al. **Indian J Pathol Microbiol** 1989 Apr;32(2):92–100

Campylobacter diarrhea in children in Trivandrum. Devi KI, et al. **Indian J Pediatr** 1989 Sep–Oct;56(5):657–60

Adhesion of colonization factor antigen II–positive enterotoxigenic Escherichia coli strains to human enterocytelike differentiated HT–29 cells: a basis for host–pathogen interactions in the gut. Neeser JR, et al. **Infect Immun** 1989 Dec;57(12):3727–34

Cloning and nucleotide sequence of a heat–stable enterotoxin gene from Vibrio cholerae non–O1 isolated from a patient with traveler's diarrhea. Ogawa A, et al. **Infect Immun** 1990 Oct;58(10):3325–9

Diarrhea and intestinal invasiveness of Aeromonas strains in the removable intestinal tie rabbit model. Pazzaglia G, et al. **Infect Immun** 1990 Jun;58(6):1924–31

Listeria isolations from feces of patients with diarrhea and from healthy food handlers. Müller HE. **Infection** 1990 Mar–Apr;18(2):97–9

Growth characteristics of motile Aeromonas spp. isolated from different environments. Knøchel S. **Int J Food Microbiol** 1990 May;10(3–4):235–44

Frequency of occurrence and characterization of catalase negative Campylobacter isolated from human feces in Vienna. Hirschl AM, et al. **Int J Med Microbiol** 1990 Apr; 272(4):547–53

The role of Proteae in diarrhea. Müller HE. **Int J Med Microbiol** 1989 Nov;272(1):30–5

In–vitro activity of DR–3355, an optically active isomer of ofloxacin, against bacterial pathogens associated with travellers' diarrhoea. Inagaki Y, et al. **J Antimicrob Chemother** 1989 Oct;24(4):547–9

Aeromonas in adult diarrhea: an enteropathogen or an innocent bystander? Golik A, et al. **J Clin Gastroenterol** 1990 Apr;12(2):148–52

Adenovirus types 40 and 41 and rotaviruses associated with diarrhea in children from Guatemala. Cruz JR, et al. **J Clin Microbiol** 1990 Aug;28(8):1780–4

Investigation of zoonotically acquired Campylobacter jejuni enteritis with serotyping and restriction endonuclease DNA analysis. Fox JG, et al. **J Clin Microbiol** 1989 Nov; 27(11):2423–5

Production of Shiga–like toxin among Escherichia coli strains and other bacteria isolated from diarrhea in São Paulo, Brazil. Giraldi R, et al. **J Clin Microbiol** 1990 Jun; 28(6):1460–2

Alga associated with diarrhea in patients with acquired immunodeficiency syndrome and in travelers. Long EG, et al. **J Clin Microbiol** 1990 Jun;28(6):1101–4

Epidemiology of bacterial pathogens associated with infectious diarrhea in Djibouti. Mikhail IA, et al. **J Clin Microbiol** 1990 May;28(5):956–61

Serotype, antimicrobial resistance, and adherence properties of Escherichia coli strains associated with outbreaks of diarrheal illness in children in the United States. Moyenuddin M, et al. **J Clin Microbiol** 1989 Oct; 27(10):2234–9

Laboratory observations on Plesiomonas shigelloides strains isolated from children with diarrhea in Peru. Olsvik O, et al. **J Clin Microbiol** 1990 May;28(5):886–9

Nationwide surveillance program to identify diarrhea–causing Escherichia coli in children in Thailand. Sunthadvanich R, et al. **J Clin Microbiol** 1990 Mar; 28(3):469–72

Comparison of two assay methods for patterns of adherence to HEp–2 cells of Escherichia coli from patients with diarrhea. Vial PA, et al. **J Clin Microbiol** 1990 May; 28(5):882–5

Enterohaemorrhagic E. coli 0157:H7 in central Australia [letter] Albert MJ, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):96–7

Enteropathogenicity of plesiomonas shigelloides by oral inoculation in adult conditioned rabbits. Chowdhury K, et al. **J Diarrhoeal Dis Res** 1988 Sep–Dec;6(3–4):221–7

Comparison of three assays to detect enterotoxigenicity of Aeromonas isolates from patients with diarrhoea in Vellore, south India. Jesudason MV, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):77–80

Aetiologic agents of diarrhoeal diseases in hospitalised children in Rawalpindi, Pakistan. Khan MM, et al. **J Diarrhoeal Dis Res** 1988 Sep–Dec;6(3–4):228–31

Correlation between toxin formation and diarrhoea in patients infected with Aeromonas. Wadström T, et al. **J Diarrhoeal Dis Res** 1988 Jun;6(2):113–9 (38 ref.)

Risk factors for Escherichia coli O157:H7 infection in an urban community. Bryant HE, et al. **J Infect Dis** 1989 Nov; 160(5):858–64

Molecular epidemiology of rotavirus in children attending day care centers in Houston. O'Ryan ML, et al. **J Infect Dis** 1990 Oct;162(4):810–6

Serotyping of human group A rotavirus with oligonucleotide probes. Sethabutr O, et al. **J Infect Dis** 1990 Aug; 162(2):368–72

Challenge studies in volunteers using Escherichia coli strains with diffuse adherence to HEp–2 cells. Tacket CO, et al. **J Infect Dis** 1990 Aug;162(2):550–2

Adherence characteristics to human small intestinal mucosa of Escherichia coli isolated from patients with diarrhea or urinary tract infections. Yamamoto T, et al. **J Infect Dis** 1990 Oct;162(4):896–908

Occurrence of Aeromonas species and Plesiomonas shigelloides in patients with and without diarrhoea in Lagos, Nigeria. Alabi SA, et al. **J Med Microbiol** 1990 May;32(1):45–8

Upper small intestinal microflora in diarrhea and malnutrition in Nigerian children. Omoike IU, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):314–21

An in vitro model to study aspects of the pathophysiology of murine rotavirus–induced diarrhoea. Starkey WG, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):361–70

A study of the incidence of enterotoxigenic Escherichia coli (ETEC) secreting heat–labile toxin in two communities in south–western Nigeria. Ako–Nai AK, et al. **J Trop Med Hyg** 1990 Apr;93(2):116–8

Aetiological studies of diarrhoeal diseases in infants and young children in Iran. Katouli M, et al. **J Trop Med Hyg** 1990 Feb;93(1):22–7

Ecological studies on intestinal microbial flora of Kenyan children with diarrhoea. Tazume S, et al. **J Trop Med Hyg** 1990 Jun;93(3):215–21

Rotavirus from children of an urban settlement of Papua New Guinea. Bukenya GB, et al. **J Trop Pediatr** 1990 Apr; 36(2):66–8

Rotavirus gastroenteritis in pediatric diarrhoea in Jos, Nigeria. Gomwalk NE, et al. **J Trop Pediatr** 1990 Apr; 36(2):52–5

Novel organism associated with chronic diarrhoea in AIDS [letter] Hart AS, et al. **Lancet** 1990 Jan 20;335(8682):169–70

Results of a 6–month survey of stool cultures for Escherichia coli O157:H7 [see comments] Marshall WF, et al. **Mayo Clin Proc** 1990 Jun;65(6):787–92 Comment in: Mayo Clin Proc 1990 Jun;65(6):884–8.

An unusual vibrio infection. MacGibbon JB. **Md Med J** 1989 Sep;38(9):735–7

Fungal diarrhoea: association of different fungi and seasonal variation in their incidence. Talwar P, et al. **Mycopathologia** 1990 May;110(2):101–5

Vacation diarrhea. How should it be managed? Potts JF, et al. **Postgrad Med** 1990 Jul;88(1):83–7, 90

Mixed enteric infection [letter] Hamer IE, et al. **Postgrad Med J** 1990 May;66(775):411

Very long term diarrhoea due to Campylobacter jejuni [letter] Paulet P, et al. **Postgrad Med J** 1990 May; 66(775):410–1

Biotype and Lior serogroup distribution of enteric Campylobacter isolated from children in Bangui (Central African Republic), and comparison with Penner serotypes. Georges–Courbot MC, et al. **Res Microbiol** 1989 Sep; 140(7):489–97

In vitro antimicrobial activity of bismuth subsalicylate and other bismuth salts. Manhart MD. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S11–5

Travelers' diarrhea: microbiologic bases for prevention and treatment. Sack RB. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S59–63 (31 ref.)

Aeromonas–associated diarrhea in Filipino children. Santos Ocampo DP, et al. **Riv Eur Sci Med Farmacol** 1989 Feb; 11(1):7–15

The role of shigella spp. in childhood diarrhoea in Iran and their antibiotic resistance. Katouli M, et al. **Scand J Infect Dis** 1989;21(4):415–9

Microbiological agents associated with childhood diarrhoea in the dry zone of Sri Lanka. Mertens TE, et al. **Trop Med Parasitol** 1990 Mar;41(1):115–20

Serogroups of Campylobacter jejuni from man and animals. Varga J, et al. **Zentralbl Veterinarmed [B]** 1990 Aug; 37(6):407–11

[Cytotoxin adhesion and invasiveness of Campylobacter jejuni from children with diarrhea: assay and correlation with clinical manifestations] Sun ZJ, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Sep;69(9):489–90, 34 (Eng. Abstr.) (Chi)

[Aeromonas–associated diarrhea] Fan JJ, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):306–9 (19 ref.) (Chi)

[Study on 438 strains of pathogenic vibrio and their resistance to drugs] Xu HY. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec; 10(6):337–40 (Eng. Abstr.) (Chi)

[Aeromonas species as cause of diarrhea and infections outside the gastrointestinal tract in The Netherlands] Havelaar AH, et al. **Ned Tijdschr Geneeskd** 1990 May 26; 134(21):1053–7 (Eng. Abstr.) (Dut)

[Campylobacter: pediatric experience in Oran] Bensid S, et al. **Arch Inst Pasteur Alger** 1988;56:7–13 (Eng. Abstr.) (Fre)

[Escherichia coli producing thermostable toxin ST. Detection in stools of children with and without diarrhea] Zoukh K. **Arch Inst Pasteur Alger** 1986;55:79–89 (Eng. Abstr.) (Fre)

[Antibiotic resistance of strains of Shigella dysenteriae and flexneri isolated in Tananarive and on the east coast of Madagascar] Cassel–Béraud AM, et al. **Bull Soc Pathol Exot Filiales** 1990;83(1):31–6 (Eng. Abstr.) (Fre)

[Characterization of the enterotoxigenic strains of Escherichia coli isolated from children with diarrhea in Popular Democratic Republic Lao] Germani Y, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):465–75 (Eng. Abstr.) (Fre)

[Regional strategy of surveillance of pathogenic agents of infectious diarrhea having epidemic potential] Malatre X, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):566–71 (Eng. Abstr.) (Fre)

[Role of Campylobacter in the etiology of diarrheas in Tunisia] Fendri C, et al. **Tunis Med** 1989 Aug–Sep; 67(8–9):517–20 (Eng. Abstr.) (Fre)

[Travelers' diarrhea] Moroni M. **Medicina (Firenze)** 1989 Jul–Sep;9(3):275–7 (7 ref.) (Eng. Abstr.) (Ita)

[Isolation frequency of enteropathogenic Escherichia coli in the Patro distric from 1974 to 1986] Casadei BM, et al. **Quad Sclavo Diagn** 1988 Jan–Dec;24(1–4):45–53 (Eng. Abstr.) (Ita)

[Rotavirus infections in traveler's diarrhea] Fukui Y, et al. **Kansenshogaku Zasshi** 1989 Dec;63(12):1296–300 (Eng. Abstr.) (Jpn)

[Studies on bacterial agents in acute diarrheal disease (1985–1987)] Taguchi M, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):633–40 (Eng. Abstr.) (Jpn)

[A new combination of O– and K–antigens of a Vibrio parahaemolyticus strain isolated from a patient with diarrhea] Okitsu T, et al. **Nippon Saikingaku Zasshi** 1989 Sep;44(5):723–5 (Eng. Abstr.) (Jpn)

[Rotavirus in stools from hospitalized children] Abrahamsen TG, et al. **Tidsskr Nor Laegeforen** 1989 Nov 30; 109(33):3419–20 (Eng. Abstr.) (Nor)

[Frequency of pathogenic enterobacteria in infantile diarrheic processes in the city of Recife, Pernambuco, Brazil] Leal NC, et al. **Mem Inst Oswaldo Cruz** 1988 Oct–Dec; 83(4):475–9 (Eng. Abstr.) (Por)

[The pathogenicity factors of the opportunistic bacteria that cause diarrhea] Khmelevskaia GV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr;(4):97–102 (50 ref.) (Rus)

[Are Aeromonas species a cause of diarrheal diseases in Yugoslavia?] Fridrih S, et al. **Vojnosanit Pregl** 1989 Sep–Oct;46(5):334–8 (Eng. Abstr.) (Scr)

[Cost and effectiveness of fecal culture in the etiologic diagnosis of acute diarrhea] Roncoroni AJ Jr, et al. **Bol Of Sanit Panam** 1989 Nov;107(5):381–7 (Eng. Abstr.) (Spa)

[The first isolations of Salmonella Zaiman in humans] Vergara M, et al. **Rev Argent Microbiol** 1989 Apr–Jun; 21(2):89–91 (Eng. Abstr.) (Spa)

[Electron microscopy in the diagnosis of small round structurized viruses] Brebäck K, et al. **Lakartidningen** 1990 Jun 20;87(25):2179, 2183–4 (Swe)

PARASITOLOGY

Enteromonas hominis incidence and diarrhea [letter; comment] Goldberg J. **Am J Gastroenterol** 1990 Apr; 85(4):480 Comment on: Am J Gastroenterol 1989 Oct;84(10):1313–4.

Detection of Blastocystis hominis by direct microscopy and culture [letter] Kukoschke KG, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):305–7

Cessation of Cryptosporidium–associated diarrhea in an acquired immunodeficiency syndrome patient after treatment with hyperimmune bovine colostrum. Ungar BL, et al. **Gastroenterology** 1990 Feb;98(2):486–9

Golytely interferes with stool examination for ova and parasites [letter] Burch WC Jr, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):471

[Cryptosporidiosis. Characterization of a new infection with special regard to water as the source of infection] Exner M, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):13–25 (48 ref.) (Eng. Abstr.) (Ger)

[Cryptosporidium sp. in children with diarrhea in Cuba] Delfin M, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug; (4):36–9 (Eng. Abstr.) (Rus)

PATHOLOGY

Non–coeliac flat jejunal mucosa. Batt M. **Gut** 1989 Nov;30 Spec No:67–8

PHYSIOPATHOLOGY

Relating growth rate to environmental factors—methodological problems in the study of growth–infection interaction. Cole TJ. **Acta Paediatr Scand Suppl** 1989;350:14–20

Pathophysiology of acute diarrhea. Binder HJ. **Am J Med** 1990 Jun 20;88(6A):2S–4S

Relation between small intestinal motor activity and transit in secretory diarrhea. Cowles VE, et al. **Am J Physiol** 1990

Sep;259(3 Pt 1):G420–9
Antigen absorption in rabbit bacterial diarrhea (RDEC–1). In vitro modifications in ileum and Peyer's patches. Isolauri E, et al. **Dig Dis Sci** 1990 Mar;35(3):360–6
Effect of diarrhoea on dietary intake by infants and young children in rural villages of Kwara State, Nigeria. Dickin KL, et al. **Eur J Clin Nutr** 1990 Apr;44(4):307–17
Anorectal manometry in irritable bowel syndrome: differences between diarrhoea and constipation predominant subjects. Prior A, et al. **Gut** 1990 Apr; 31(4):458–62
Studies of osmotic diarrhea induced in normal subjects by ingestion of polyethylene glycol and lactulose. Hammer HF, et al. **J Clin Invest** 1989 Oct;84(4):1056–62
The pathophysiological basis for viral diarrhea: a progress report. Hamilton JR. **J Pediatr Gastroenterol Nutr** 1990 Aug;11(2):150–4 (41 ref.)
Intestinal permeability assessed with polyethylene glycols in children with diarrhea due to rotavirus and common bacterial pathogens in a developing community. Johansen K, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):307–13
X–ray microanalysis of rotavirus–infected mouse intestine: a new concept of diarrhoeal secretion. Spencer AJ, et al. **J Pediatr Gastroenterol Nutr** 1990 May;10(4):516–29
Transport of water and electrolytes by rotavirus–infected mouse intestine: a time course study. Starkey WG, et al. **J Pediatr Gastroenterol Nutr** 1990 Aug;11(2):254–60
Prostaglandins in the plasma and stool of children with rotavirus gastroenteritis. Yamashiro Y, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):322–7
Pathophysiology of diarrheal disorders. Banwell JG. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S30–5 (28 ref.)
Symptoms associated with diarrhoeal illness at San Lazaro Hospital, Manila in 1983 and 1984. Adkins HJ, et al. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):207–14
[Irritable colon and colonic disease due to laxatives] Wienbeck M, et al. **Schweiz Rundsch Med Prax** 1990 Jul 17;79(29–30):885–8 (Eng. Abstr.) **(Ger)**
[Principles of epithelial transport mechanisms: importance for pathophysiologic understanding, differential diagnosis and treatment of diarrheal diseases] Schulzke JD, et al. **Z Gastroenterol** 1989 Nov;27(11):693–700 (67 ref.) (Eng. Abstr.) **(Ger)**
[Satoyoshi's syndrome: a syndrome of progressive muscle spasm, alopecia, and diarrhea] Satoyoshi E. **Nippon Rinsho** 1990 Jul;48(7):1540–6 **(Jpn)**

PREVENTION & CONTROL

Family practitioner's guide to patient self–treatment of acute diarrhea. Brownlee HJ Jr. **Am J Med** 1990 Jun 20; 88(6A):27S–29S
Norfloxacin for the prophylaxis of travelers' diarrhea in U.S. military personnel. Scott DA, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):160–4
Misoprostol, diarrhea, and psyllium mucilloid [letter] Bobrove AM. **Ann Intern Med** 1990 Mar 1;112(5):386
Prevention of travellers' diarrhoea by Lactobacillus GG. Oksanen PJ, et al. **Ann Med** 1990 Feb;22(1):53–6
Effect of Lactobacillus GG yoghurt in prevention of antibiotic associated diarrhoea. Siitonen S, et al. **Ann Med** 1990 Feb;22(1):57–9
Travellers' diarrhoea. Looke DF. **Aust Fam Physician** 1990 Feb;19(2):194–203
Development of vaccines against cholera and diarrhoea due to enterotoxigenic Escherichia coli: memorandum from a WHO meeting. **Bull World Health Organ** 1990;68(3):303–12
Pharmacists' self–medication for the travelers' diarrhea. Jinks MJ, et al. **DICP** 1989 Oct;23(10):800–5
A double–blind, placebo–controlled study of the efficacy of Lactinex in the prophylaxis of amoxicillin–induced diarrhea. Tankanow RM, et al. **DICP** 1990 Apr;24(4):382–4
Bismuth subsalicylate in the prevention of colonization of infant mice with Campylobacter jejuni. Hänninen ML. **Epidemiol Infect** 1990 Jun;104(3):397–404
Non–replicating oral whole cell vaccine protective against enterotoxigenic Escherichia coli (ETEC) diarrhea: stimulation of anti–CFA (CFA/I) and anti–enterotoxin (anti–LT) intestinal IgA and protection against challenge with ETEC belonging to heterologous serotypes. Evans DG, et al. **FEMS Microbiol Immunol** 1988 Dec;1(3):117–25
Immunoprotective oral whole cell vaccine for enterotoxigenic Escherichia coli diarrhea prepared by in situ destruction of chromosomal and plasmid DNA with colicin E2. Evans DJ Jr, et al. **FEMS Microbiol Immunol** 1988 Jan;1(1):9–18
Future vaccines against enteric pathogens. Levine MM, et al. **Infect Dis Clin North Am** 1990 Mar;4(1):105–21 (55 ref.)
Critical control points for foods prepared in households whose members had either alleged typhoid fever or diarrhea. Michanie S, et al. **Int J Food Microbiol** 1988 Oct; 7(2):123–34
Immune protection of infants against rotavirus gastroenteritis by a serotype 1 reassortant of bovine rotavirus WC3. Clark HF, et al. **J Infect Dis** 1990 Jun;161(6):1099–104
Double–blind report on the efficacy of lactic acid–producing Enterococcus SF68 in the prevention of antibiotic–associated diarrhoea and in the treatment of acute diarrhoea. Wunderlich PF, et al. **J Int Med Res** 1989 Jul–Aug;17(4):333–8
Prevention of human rotavirus infection with chicken egg yolk immunoglobulins containing rotavirus antibody in cat. Hiraga C, et al. **Kansenshogaku Zasshi** 1990 Jan; 64(1):118–23
Preliminary report: role of peptide YY in defence against diarrhoea. Playford RJ, et al. **Lancet** 1990 Jun 30; 335(8705):1555–7
Effect of diarrhoeal disease control on infant and childhood mortality in Egypt. Report from the National Control of Diarrheal Diseases Project [published erratum appears in Lancet 1990 Mar 17;335(8690):674] el–Rafie M, et al. **Lancet** 1990 Feb 10;335(8685):334–8
Advice for travelers. **Med Lett Drugs Ther** 1990 Apr 6; 32(815):33–6
Global progress in the control of diarrheal diseases. Claeson M, et al. **Pediatr Infect Dis J** 1990 May;9(5):345–55 (114 ref.)
Recombinant DNA technology and enterotoxigenic Escherichia coli vaccines. Gyles CL, et al. **Prog Vet Microbiol Immunol** 1987;3:139–58 (93 ref.)
Use of bismuth subsalicylate for the prevention of travelers' diarrhea. DuPont HL, et al. **Rev Infect Dis** 1990 Jan–Feb; 12 Suppl 1:S64–7
Prevention of diarrhea caused by enterotoxigenic Escherichia coli: lessons learned with volunteers. Graham DY, et al. **Rev Infect Dis** 1990 Jan–Feb;12 Suppl 1:S68–72
The risk approach in diarrheal disease intervention in Grenada. Taylor SM, et al. **Soc Sci Med** 1990; 30(10):1089–95
Prevention of diarrhoea and dysentery by hand washing. Aung Myo Han, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):128–31
Diarrhoeal diseases control programme. **Wkly Epidemiol Rec** 1990 May 11;65(19):143–6 **(Eng, Fre)**
[Effectiveness evaluation and cost–effectiveness estimate for diarrhea control by environment improvement in rural area] Lou H. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Jun; 11(3):170–4 (Eng. Abstr.) **(Chi)**
[Travel diarrhea—prevention and therapy] Fleischer K. **Verh Dtsch Ges Inn Med** 1989;95:622–6 **(Ger)**
[Reducing secretions in enteral nutrition] Petritsch W, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:75–7 (29 ref.) **(Ger)**
[New approaches in the prevention of diarrhea caused by Escherichia coli] Cravioto A. **Bol Med Hosp Infant Mex** 1989 Nov;46(11):736–42 (47 ref.) (Eng. Abstr.) **(Spa)**
[Travellers' diarrhea—prevention, self–care or no measures at all? Antibiotics only for at–risk groups and a small number of travellers] Norrby R. **Lakartidningen** 1990 Mar 7;87(10):737–8 **(Swe)**

SURGERY

Role of rat large intestine in reducing diarrhea after 50% or 80% distal small bowel resection. Vázquez CM, et al. **Dig Dis Sci** 1989 Nov;34(11):1713–9
Postvagotomy diarrhoea: is there a place for surgical management? Cuschieri A. **Gut** 1990 Mar;31(3):245–6 (23 ref.)

THERAPY

Oral rehydration solutions for the children of Europe. Proceedings of a workshop held at XXI annual meeting of ESPGAN. Copenhagen 1988. **Acta Paediatr Scand Suppl** 1989;364:1–50
Overview of childhood acute diarrhoea in Europe: implications for oral rehydration therapy. Guandalini S. **Acta Paediatr Scand Suppl** 1989;364:5–12 (28 ref.)
Treatment with bovine hyperimmune colostrum of cryptosporidial diarrhea in AIDS patients. Nord J, et al. **AIDS** 1990 Jun;4(6):581–4
Management of acute nonspecific diarrhea. Proceedings of a symposium. Innisbrook, Florida, February 6, 1988. **Am J Med** 1990 Jun 20;88(6A):1S–37S
Management of acute nonspecific diarrhea. Brownlee HJ Jr. **Am J Med** 1990 Jun 20;88(6A):1S
Efficient management of diarrhea in the acquired immunodeficiency syndrome (AIDS). A medical decision analysis. Johanson JF, et al. **Ann Intern Med** 1990 Jun 15; 112(12):942–8
Traditional methods in management of diarrhoeal diseases in Uganda. Anokbonggo WW, et al. **Bull World Health Organ** 1990;68(3):359–63
Comparison of two oral rehydration solutions in eutrophic infants with moderate acute diarrhea: results of an interim analysis. Mallet E, et al. **Clin Ther** 1990;12 Suppl A:104–11; discussion 111–2
Efficacy & safety of glycine fortified oral rehydration solution in the treatment of acute dehydrating diarrhoea in children. Bhattacharya SK, et al. **Indian J Med Res** 1989 Dec;90:426–9
Impact of oral rehydration therapy on maternal beliefs and practices related to acute diarrhea. Kumar V, et al. **Indian J Pediatr** 1989 Mar–Apr;56(2):219–25
Inadequacies in the management of diarrhea at the peripheral non–teaching level. Singh T. **Indian J Pediatr** 1990 Jan–Feb;57(1):89–92
A comparative study of different methods of training of rural subjects for reconstitution of oral rehydration solutions. Nagarajan L, et al. **Indian Pediatr** 1989 Apr;26(4):323–9
Rice–based oral rehydration solution shown to be better than glucose–ORS as treatment of non–dysenteric diarrhoea in children in rural Bangladesh. Bari A, et al. **J Diarrhoeal Dis Res** 1989 Mar–Jun;7(1–2):1–7
Assessment of the effect of training on management of acute diarrhoea in a primary health care setting. Kumar V, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):70–6
Alanine stimulation of water and sodium absorption in a model of secretory diarrhea. Wapnir RA, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):213–21
Persistent diarrhoea. Ebrahim GJ. **J Trop Pediatr** 1990 Apr; 36(2):50–1
New parameters for evaluating oral rehydration therapy: one year's experience in a major urban hospital in Zaire. Moore M, et al. **J Trop Pediatr** 1989 Aug;35(4):179–84
Food–based oral rehydration salt solution for acute childhood diarrhoea [letter; comment] **Lancet** 1989 Oct 7; 2(8667):868–9 Comment on: Lancet 1989 Aug 19;2(8660):429–31.
Bacteriotherapy for Clostridium difficile diarrhoea [letter] Tvede M, et al. **Lancet** 1990 Jan 13;335(8681):110
Oral therapy for acute diarrhea. The underused simple solution. Avery ME, et al. **N Engl J Med** 1990 Sep 27; 323(13):891–4 (43 ref.)
Oral rehydration therapy. Casteel HB, et al. **Pediatr Clin North Am** 1990 Apr;37(2):295–311 (59 ref.)
Oral rehydration and breast–feeding [letter; comment] Newman J. **Pediatr Infect Dis J** 1990 Feb;9(2):147 Comment on: Pediatr Infect Dis J 1989 Aug;8(8):564–9.
Contribution of American pediatricians to treatment of diarrheal dehydration. Harrison HE. **Pediatr Res** 1990 Jun; 27(6 Suppl):S62–4
Diagnosis and therapy of acute and chronic diarrhea [see comments] Bruckstein AH. **Postgrad Med** 1989 Dec; 86(8):151–9 Comment in: Postgrad Med 1990 Mar;87(4):37.
Acute diarrhea in adults. Management, with emphasis on oral rehydration therapy. Harig JM, et al. **Postgrad Med** 1989 Dec;86(8):131–3, 137, 140
Acute diarrhea in children. What to do and what not to do. Leung AK, et al. **Postgrad Med** 1989 Dec;86(8):161–4, 167–74 (43 ref.)
Knowledge of diarrhea and socioeconomic factors in relation to the use of oral rehydration therapy in Samut Songkhram Province, Thailand. Ittiravivongs A, et al. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):215–9
Food–based solutions are a viable alternative to glucose–electrolyte solutions for oral hydration in acute diarrhoea—studies in a rat model of secretory diarrhoea. Rolston DD, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):156–9
Diarrhoeal diseases control programme. Diarrhoea case management survey. **Wkly Epidemiol Rec** 1990 Jan 26; 65(4):21–4 **(Eng, Fre)**
[The return of ultra–yeast?] Loizeau E. **Rev Med Suisse Romande** 1990 Jul;110(7):637–8 **(Fre)**
[Use of polyionic solutions in the treatment of acute intestinal infections] Chekalina KI, et al. **Sov Med** 1989;(11):111–4 **(Rus)**
[Oral rehydration therapy in acute diarrheal syndrome. A critical analysis of various aspects] Duffau–Toro G. **Bol Med Hosp Infant Mex** 1989 Oct;46(10):684–9 (50 ref.) (Eng. Abstr.) **(Spa)**
[Oral rehydration at a third–level service] Mota–Hernández F. **Bol Med Hosp Infant Mex** 1990 Feb;47(2):103–7 (36 ref.) (Eng. Abstr.) **(Spa)**
[Sodium concentrations in solutions for oral rehydration in children with diarrhea] Mota–Hernández F, et al. **Bol Med Hosp Infant Mex** 1990 Apr;47(4):285–91 (64 ref.) (Eng. Abstr.) **(Spa)**
[Retrospective evaluation of persistent diarrhea at a primary health service] Araya M, et al. **Rev Chil Pediatr** 1989 Jan–Feb;60(1):23–7 (Eng. Abstr.) **(Spa)**

VETERINARY

Latex test for rapid rotavirus diagnosis in calves. Sukura A, et al. **Acta Vet Scand** 1990;31(1):1–4
Breda virus (Toroviridae) infection and systemic antibody response in sentinel calves. Koopmans M, et al. **Am J Vet Res** 1990 Sep;51(9):1443–8
Effects of preweaning exposure to a starter diet on enterotoxigenic Escherichia coli–induced postweaning diarrhea in swine. Sarmiento JI, et al. **Am J Vet Res** 1990 Aug;51(8):1180–3
Experimental rotavirus infection in three–week–old pigs. Shaw DP, et al. **Am J Vet Res** 1989 Nov;50(11):1961–5
Treatment of induced enterotoxigenic colibacillosis (scours) in calves by the lactoperoxidase system and lactoferrin. Still J, et al. **Ann Rech Vet** 1990;21(2):143–52
Neonatal viral diarrhoeas. Caple IW. **Aust Vet J** 1989 Dec; 66(12):407–8 (19 ref.)
Preulcerative changes to the pars oesophagea associated with Torulopsis glabrata infection in a weaned pig. McGillivery DJ. **Aust Vet J** 1989 Oct;66(10):337–8
Generalised protothecosis in a collie dog. Thomas JB, et al. **Aust Vet J** 1990 Jan;67(1):25–7
Diarrhea associated with small–intestinal cryptosporidiosis in a budgerigar and in a cockatiel. Goodwin MA, et al. **Avian Dis** 1989 Oct–Dec;33(4):829–33
Changes in plasma composition in calves surviving or dying from diarrhoea. Groutides CP, et al. **Br Vet J** 1990 May–Jun;146(3):205–10
Detection of coronavirus–like particles from mink with

epizootic catarrhal gastroenteritis. Gorham JR, et al. **Can J Vet Res** 1990 Jun;54(3):383–4

The effects of feeding milk to diarrheic calves supplemented with oral electrolytes. Heath SE, et al. **Can J Vet Res** 1989 Oct;53(4):477–85

Porcine group C rotavirus as a cause of neonatal diarrhea in a Quebec swine herd. Morin M, et al. **Can J Vet Res** 1990 Jun;54(3):385–9

Risk factors for mortality from diarrhea in beef calves in Alberta. Schumann FJ, et al. **Can J Vet Res** 1990 Jun; 54(3):366–72

Further studies on passive immunization of newborn calves against rotaviral infection. Castrucci G, et al. **Comp Immunol Microbiol Infect Dis** 1989;12(3):71–6

Demonstration of enterotoxigenic Escherichia coli in diarrheic broiler chicks. Joya JE, et al. **Eur J Epidemiol** 1990 Mar;6(1):88–90

Serotypes and antibiotic resistance of verotoxigenic (VTEC) and necrotizing (NTEC) Escherichia coli strains isolated from calves with diarrhoea. González EA, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):31–6

Adhesion of Escherichia coli strains isolated from diarrheic weaned rabbits to intestinal villi and HeLa cells. Milon A, et al. **Infect Immun** 1990 Aug;58(8):2690–5

Diarrhea induced by Treponema hyodysenteriae: a young chick cecal model for swine dysentery. Sueyoshi M, et al. **Infect Immun** 1990 Oct;58(10):3348–62

Probable paratuberculosis in a Sicilian ass. Dierckins MS, et al. **J Am Vet Med Assoc** 1990 Feb 1;196(3):459–61

Electrolyte abnormalities associated with diarrhea in rhesus monkeys: 100 cases (1986–1987). George JW, et al. **J Am Vet Med Assoc** 1990 May 15;196(10):1654–8

ECG of the month. Paroxysmal ventricular tachycardia in a horse with diarrhea [see comments] Hondalus MK, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1222–3 Comment in: J Am Vet Med Assoc 1990 Feb 15;196(4):521.

Total parenteral nutrition in a neonatal llama. Hovda LR, et al. **J Am Vet Med Assoc** 1990 Jan 15;196(2):319–22

Attaching and effacing Escherichia coli infection as a cause of diarrhea in young calves. Janke BH, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):897–901

Effect of Campylobacter spp–induced enteritis on growth rate and feed efficiency in pigs. Straw BE. **J Am Vet Med Assoc** 1990 Aug 1;197(3):355–7

Characterization of creep feed consumption and its subsequent effects on immune response, scouring index and performance of weanling pigs. Barnett KL, et al. **J Anim Sci** 1989 Oct;67(10):2698–708

Effects of feeding aspirin and soybean oil to weanling pigs. Xu ZR, et al. **J Anim Sci** 1990 Jun;68(6):1639–47

Phenotype and genotype of Escherichia coli isolated from pigs with postweaning diarrhea in Hungary. Nagy B, et al. **J Clin Microbiol** 1990 Apr;28(4):651–3

Rotavirus serotypes 6 and 10 predominate in cattle. Snodgrass DR, et al. **J Clin Microbiol** 1990 Mar;28(3):504–7

Dinitrochlorobenzene contact hypersensitivity as a marker trait for selection to improve disease resistance in calves. Burton JL, et al. **J Dairy Sci** 1989 Sep;72(9):2351–61

Lymphocytic–plasmacytic enteritis in 24 dogs. Jacobs G, et al. **J Vet Intern Med** 1990 Mar–Apr;4(2):45–53

The effect of avilamycin in the control of stress–induced post–weaning diarrhoea in piglets. Kyriakis SC. **J Vet Pharmacol Ther** 1989 Sep;12(3):296–301

Rotaviral enteritis in a raccoon. Hamir AN, et al. **J Wildl Dis** 1990 Apr;26(2):262–4

Coronavirus–like virions associated with a wasting syndrome in guinea pigs. Jaax GP, et al. **Lab Anim Sci** 1990 Jul; 40(4):375–8

Experimental group A rotaviral infection in cynomolgus monkeys raised on formula diet. Leong YK, et al. **Microbiol Immunol** 1990;34(2):153–62

Sero– and CPE–types of porcine enteroviruses isolated from healthy and diarrheal pigs: possible association of CPE type II with diarrhea. Honda E, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):85–90

Therapeutic effects of electrolyte solution with oil emulsion on serious diarrhea in Holstein calves. Koiwa M, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):639–41

Vaccine development against enterotoxigenic Escherichia coli. Myers LL. **Prog Vet Microbiol Immunol** 1986;2:145–57 (84 ref.)

Viruses with bisegmented double–stranded RNA in pig faeces. Gatti MS, et al. **Res Vet Sci** 1989 Nov;47(3):397–8

Diarrhea in the cat. Wolf AM. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):212–8 (40 ref.)

Metabolic acidosis in diarrheic calves: the importance of alkalinizing agents in therapy. Kasari TR. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):29–43 (29 ref.)

Oral fluid therapy in neonatal ruminants and swine [published erratum appears in Vet Clin North Am Food Anim Pract 1990 Jul;6(2):following Table of Contents] Naylor JM. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):51–67 (58 ref.)

The use of parenteral nutrition in calves. Sweeney RW, et al. **Vet Clin North Am Food Anim Pract** 1990 Mar; 6(1):125–31 (13 ref.)

Intravenous fluid therapy in calves. Tremblay RR. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):77–101 (78 ref.)

Fluid therapy with specific mucopolysaccharides. A new approach to control diarrhea. Verschoor J, et al. **Vet Clin North Am Food Anim Pract** 1990 Mar;6(1):69–75 (17 ref.)

A longitudinal study of bovine coronavirus enteric and respiratory infections in dairy calves in two herds in Ohio. Heckert RA, et al. **Vet Microbiol** 1990 Apr;22(2–3):187–201

Enzyme–linked immunosorbent assay for the detection of porcine epidemic diarrhea coronavirus antibodies in swine sera. Hofmann M, et al. **Vet Microbiol** 1990 Jan; 21(3):263–73

DNA probes for the detection of toxin genes in Escherichia coli isolated from diarrhoeal disease in cattle and pigs. Woodward MJ, et al. **Vet Microbiol** 1990 Apr; 22(2–3):277–90

Pathology of infectious diarrhea of infant rats (IDIR) induced by an antigenically distinct rotavirus. Huber AC, et al. **Vet Pathol** 1989 Sep;26(5):376–85

Enterocecocolitis associated with intraepithelial Campylobacter–like bacteria in rabbits (Oryctolagus cuniculus). Schoeb TR, et al. **Vet Pathol** 1990 Mar; 27(2):73–80

Evaluation of acid–base disturbances [letter; comment] Beckett JA. **Vet Rec** 1990 Mar 3;126(9):225 Comment on: Vet Rec 1990 Jan 13;126(2):29–31.

Survey for Breda virus in neonatal calf diarrhoea. Brown D, et al. **Vet Rec** 1990 Apr 7;126(14):337

Toxoplasmosis in a Siberian tiger (Panthera tigris altaica). Dorny P, et al. **Vet Rec** 1989 Dec 23–30;125(26–27):647

A comparison of two oral rehydration solutions in experimental models of dehydration and diarrhoea in calves [published erratum appears in Vet Rec 1990 Feb 3;126(5):110] Dupe RJ, et al. **Vet Rec** 1989 Dec 16; 125(25):620–4

Evaluation of acid–base disturbances in calf diarrhoea [see comments] Groutides C, et al. **Vet Rec** 1990 Jan 13; 126(2):29–31 Comment in: Vet Rec 1990 Feb 3;126(5):120. Comment in: Vet Rec 1990 Mar 3;126(9):225.

Diarrhoea in adult horses: a survey of clinical cases and an assessment of some prognostic indices. Mair TS, et al. **Vet Rec** 1990 May 12;126(19):479–81

Testing strains of Clostridium perfringens type A isolated from diarrhoeic piglets for the presence of the enterotoxin gene. van Damme–Jongsten M, et al. **Vet Rec** 1990 Feb 24;126(8):191–2

Birna–type virus in diarrhoeic calf faeces [letter] Vanopdenbosch E, et al. **Vet Rec** 1989 Dec 9;125(24):610

Parenteral amoxycillin/clavulanate in the treatment of diarrhoea in young pigs. Webster CJ. **Vet Rec** 1990 Apr 14;126(15):363–4

Study of virus excretion in feces of diarrheic and asymptomatic calves infected with rotavirus. Archambault D, et al. **Zentralbl Veterinarmed [B]** 1990 Feb;37(1):73–6

Bovine diarrhea associated with Campylobacter hyointestinalis. Diker KS, et al. **Zentralbl Veterinarmed [B]** 1990 Mar;37(2):158–60

Erosive colitis in experimental canine Leishmaniasis. González JL, et al. **Zentralbl Veterinarmed [B]** 1990 Jul; 37(5):377–82

[The most important parasitic intestinal infections in calves and their role in diarrheal diseases] Nikitin VF, et al. **Vet Med (Praha)** 1990 Apr;35(4):201–6 (Eng. Abstr.) (Cze)

[Dogs with persistent diarrhea] van Noort R. **Tijdschr Diergeneeskd** 1990 Jul 1;115(13):640–2 (Dut)

[Electron microscopic detection rate of enteral viruses in diarrhea of dogs, cats, calves, swine and foals in the year 1988—electron microscopic study results] Biermann U, et al. **Berl Munch Tierarztl Wochenschr** 1989 Dec 1; 102(12):412–4 (Eng. Abstr.) (Ger)

[Comparative studies of the detection of rotavirus in fecal samples of calves with diarrhea with the latex test "Slidex Rota–Kit 2" and electron microscopy] Hamann HP, et al. **Berl Munch Tierarztl Wochenschr** 1989 Oct 1;102(10):346–7 (Eng. Abstr.) (Ger)

[Comparison of the diagnostic methods for studying parvovirus and rotavirus infections of dogs] Kölbl S, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jul 1; 103(7):232–6 (Eng. Abstr.) (Ger)

[Comparison between dialysis methods and centrifugation/filtration for collecting fecal fluid from calves] Doll K, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):45–8 (Eng. Abstr.) (Ger)

[Antibiotic–free weaning of piglets] Glawischnig E. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):48–51 (Eng. Abstr.) (Ger)

[Reduced feed absorption and performance and diarrhea in a dairy cow herd as the result of a defective feed composition] Kamphues J, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 May;97(5):214–6 (Ger)

[Clinical experience with kennel–specific E. coli oral vaccines in dogs] Baljer G, et al. **Tierarztl Prax** 1990 Feb;18(1):65–8 (Eng. Abstr.) (Ger)

[Dysfunction of the esophageal groove ("ruminal drinking") as a complication of neonatal diarrhea in the calf] Dirr L, et al. **Tierarztl Prax** 1989;17(4):353–8 (Eng. Abstr.) (Ger)

[Clinical case. A mixed breed female dog about 6 months old] Kraft W. **Tierarztl Prax** 1990 Jun;18(3):235, 309–10 (Ger)

[Thermophilic Campylobacter from fecal samples of animals and their behavior in the ganglioside (GM1)–ELISA, Vero cell test and salt aggregation test] Rakotozandrindraini R, et al. **Zentralbl Veterinarmed [B]** 1990 Mar;37(2):142–7 (Eng. Abstr.) (Ger)

[The effect of the day of parturition in the technological cycle of maternity on the morbidity of diarrhea in lactating piglets] Ferrer R, et al. **Beitr Trop Landwirtsch Veterinarmed** 1990;28(1):101–7 (Eng. Abstr.) (Spa)

DIARRHEA, INFANTILE

A comparative study of glycine fortified oral rehydration solution with standard WHO oral rehydration solution. Antony TJ, et al. **Indian Pediatr** 1989 Dec;26(12):1196–201

Acute invasive diarrhea in the pediatric patient. Guerrero R. **Scand J Gastroenterol Suppl** 1989;169:24–7 (19 ref.)

Rotavirus disease in Finnish children: use of numerical scores for clinical severity of diarrhoeal episodes. Ruuska T, et al. **Scand J Infect Dis** 1990;22(3):259–67

[Cryptosporidium and candida in pediatric diarrhea in Abidjan] Koffi–Akoua G, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):451–7 (Eng. Abstr.) (Fre)

COMPLICATIONS

Paralytic ileus, a serious complication in acute diarrhoea disease among infants in developing countries. Murtaza A, et al. **Acta Paediatr Scand** 1989 Sep;78(5):701–5

Acquired zinc deficiency in an infant resembling acrodermatitis enteropathica. Sahni A, et al. **Indian Pediatr** 1989 Jul;26(7):715–8

Zinc supplementation during diarrhoea, a fortification against malnutrition? [letter] Behrens RH, et al. **Lancet** 1990 Aug 18;336(8712):442–3

Effect of aspirin in severe dehydration due to acute diarrhoea: a clinical study. Albar H, et al. **Paediatr Indones** 1987 Nov–Dec;27(11–12):216–22

Diarrhoea is a nutritional disease. Wittenberg DF, et al. **S Afr Med J** 1989 Nov 4;76(9):476–8

[Malabsorption and developmental retardation due to secondary trypsin deficiency] Galil A, et al. **Harefuah** 1990 Jan 1;118(1):10–2 (Eng. Abstr.) (Heb)

CONGENITAL

Congenital chloride diarrhoea: case report and review of the literature. Abdullah AM, et al. **Ann Trop Paediatr** 1990 Mar;10(1):71–4 (18 ref.)

DIAGNOSIS

Acute gastroenteritis. Changing pattern of clinical features and management. Isolauri E, et al. **Acta Paediatr Scand** 1989 Sep;78(5):685–91

Microscopic examination of stools and a latex slide agglutination test for the rapid identification of bacterial enteric infections in Khmer children. Nordlander E, et al. **Diagn Microbiol Infect Dis** 1990 May–Jun;13(3):273–6

Classification of intractable diarrhea in infancy using clinical and immunohistological criteria. Cuenod B, et al. **Gastroenterology** 1990 Oct;99(4):1037–43

Congenital chloridorrhea in Korean infants. Lee YD, et al. **J Korean Med Sci** 1988 Sep;3(3):123–9

The use of anthropometric indices to monitor the interplay between diarrhoea and malnutrition in Malawi [letter] Schinaia N, et al. **J Trop Pediatr** 1989 Dec;35(6):333–4

Blue–green stools and Pseudomonas aeruginosa. Lee SK, et al. **Pediatr Infect Dis J** 1990 May;9(5):371–2

[Studies on the role of rotaviruses in the etiology of acute diarrhea in infants] Sadurska E. **Pediatr Pol** 1989 Jan; 64(1):2–8 (Eng. Abstr.) (Pol)

[Enzymatic aspects of severely acute diarrheal disease in infants] Lupu V, et al. **Rev Pediatr Obstet Ginecol [Pediatr]** 1989 Apr–Jun; 38(2):173–80 (Eng. Abstr.) (Rum)

DIET THERAPY

Effects of unrestricted diet on mild infantile diarrhea. A practice–based study. Margolis PA, et al. **Am J Dis Child** 1990 Feb;144(2):162–4

Persistent diarrhoea: clinical efficacy and nutrient absorption with a rice based diet. Roy SK, et al. **Arch Dis Child** 1990 Mar;65(3):294–7

The response to dietary treatment of patients with chronic post–infectious diarrhea and lactose intolerance. Lifshitz F, et al. **J Am Coll Nutr** 1990 Jun;9(3):231–40

Effect of formula carbohydrate concentration on tolerance and macronutrient absorption in infants with severe, chronic diarrhea. Lifschitz CH, et al. **J Pediatr** 1990 Sep; 117(3):378–83

Value of a chicken–based formula for refeeding of children with protracted diarrhea and malnutrition in a developing country. Godard C, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):473–80

Cow's milk–based formula, human milk, and soya feeds in acute infantile diarrhea: a therapeutic trial. Haffejee IE. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):193–8

Nutritional management of chronic diarrhea and/or malabsorption. Kleinman RE, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):407–15 (113 ref.)

[Clinical experience with a hydrolyzed soy formula in infants with protracted enteritis and atopic eczema] Donzelli F,

et al. **Pediatr Med Chir** 1990 Jan–Feb;12(1):71–9 (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Oral zinc supplementation in persistent diarrhoea in infants. Sachdev HP, et al. **Ann Trop Paediatr** 1990 Mar;10(1):63–9

Effect of loperamide on stool output and duration of acute infectious diarrhea in infants. Motala C, et al. **J Pediatr** 1990 Sep;117(3):467–71

Cyclosporin–responsive enteropathy and protracted diarrhea. Coulthard M, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb; 10(2):257–61

Bowel cocktail and severe persistent diarrhea [letter] Tedeschi A, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb; 10(2):270–1

Anti–motility drugs for infants [letter] **Lancet** 1990 Aug 4; 336(8710):314

Enteropathogenic E. coli in a special care nursery. Primhak RA. **P N G Med J** 1988 Dec;31(4):283–5

Pharmacy dispensing practices for Sudanese children with diarrhoea. Berih AA, et al. **Public Health** 1989 Nov; 103(6):455–8

Use of bismuth subsalicylate in acute diarrhea in children. Soriano–Brücher HE, et al. **Rev Infect Dis** 1990 Jan–Feb; 12 Suppl 1:S51–6

Dispensing habits of Johannesburg pharmacists in treating acute infantile diarrhoea. Barron PM, et al. **S Afr Med J** 1989 Nov 4;76(9):487–9

A comparison of furazolidone and ampicillin in the treatment of invasive diarrhea. Prado Camacho JL. **Scand J Gastroenterol Suppl** 1989;169:54–9

A randomized, controlled, single–blind study comparing furazolidone with trimethoprim–sulfamethoxazole in the empirical treatment of acute invasive diarrhea. Rodriguez RS, et al. **Scand J Gastroenterol Suppl** 1989;169:47–53

[Clinical therapy and etiology of viral diarrhea in children] Wang Y. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan; 10(1):25–6, 4 (Eng. Abstr.) **(Chi)**

ENZYMOLOGY

Intestinal glucoamylase & other disaccharidases in children with protracted diarrhoea. Khoshoo V, et al. **Indian J Med Res** 1990 Feb;92:1–4

[Does the enzymatic activity of the 1st jejunal ala have zonal variations?] Römer H, et al. **GEN** 1988 Jan–Mar;42(1):7–12 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

The incidence of viral–associated diarrhea after admission to a pediatric hospital. Ford–Jones EL, et al. **Am J Epidemiol** 1990 Apr;131(4):711–8

Risk factors for acute childhood diarrhea in the highlands of Chiapas, Mexico: a strategy for intervention. Riley LW, et al. **Bull Pan Am Health Organ** 1990;24(2):210–6

Incidence of Campylobacter infection in infants in western Algeria and the possible protective role of breast feeding. Mégraud F, et al. **Epidemiol Infect** 1990 Aug;105(1):73–8

Epidemiology of acute diarrhea in children living in Sicily. Lupo L, et al. **Eur J Epidemiol** 1989 Sep;5(3):400–2

Bioecological factors & rotavirus diarrhoea. Ram S, et al. **Indian J Med Res** 1990 May;91:167–70

Reporting errors in one–week diarrhoea recall surveys: experience from a prospective study in rural Bangladesh. Alam N, et al. **Int J Epidemiol** 1989 Sep;18(3):697–700

Disposal of faeces of children under two years old and diarrhoea incidence: a case–control study. Baltazar JC, et al. **Int J Epidemiol** 1989;18(4 Suppl 2):S16–9

Persistent diarrhoea in a rural area of Bangladesh: a community–based longitudinal study. Huttly SR, et al. **Int J Epidemiol** 1989 Dec;18(4):964–9

Age–specific prevalence of antibody to enterotoxigenic Escherichia coli in Ecuadorian and German children. Brüssow H, et al. **J Infect Dis** 1990 Oct;162(4):974–7

Epidemiological study of enteric coronavirus excretion by an enzyme–linked immunosorbent assay. Leechanachai P, et al. **J Med Assoc Thai** 1989 Aug;72(8):452–7

Salmonella typhimurium–associated severe protracted diarrhea in infants and young children. Khoshoo V, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):33–6

Host factors in childhood diarrhoea. Khan MA, et al. **J R Soc Health** 1990 Jun;110(3):94–5

Epidemiological and clinical features of rotavirus associated acute infantile diarrhoea in Cairo, Egypt. el–Mougi M, et al. **J Trop Pediatr** 1989 Oct;35(5):230–3

Rotavirus diarrhea in Jewish and Bedouin children in the Negev region of Israel: epidemiology, clinical aspects and possible role of malnutrition in severity of illness. Dagan R, et al. **Pediatr Infect Dis J** 1990 May;9(5):314–21

Diarrhoeal disease—epidemiology and intervention. Coetzer PW, et al. **S Afr Med J** 1989 Nov 4;76(9):465–72 (119 ref.)

Childhood diarrhoea in Sri Lanka: a case–control study of the impact of improved water sources. Mertens TE, et al. **Trop Med Parasitol** 1990 Mar;41(1):98–104

[An outbreak of diarrhoea in newborns caused by EIEC] She SL. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec;10(6):333–6 (Eng. Abstr.) **(Chi)**

[Bacterial diarrhea in small children treated in the clinic during the winter months 1986/1987] Torbicka E, et al. **Pol Tyg Lek** 1990 Jan 22–29;45(4–5):60–3 **(Pol)**

[Epidemiologic problems of gastrointestinal infections in children 0 to 2 years of age] Moniuk O, et al. **Wiad Lek** 1989 May 1;42(9):567–71 (Eng. Abstr.) **(Pol)**

[Incidence of diarrhea among groups of children in the city of Seville] Márquez Calderón S, et al. **An Esp Pediatr** 1990 Feb;32(2):114–8 (Eng. Abstr.) **(Spa)**

[Risk factors for acute infantile diarrhea in a rural community in Chiapas, Mexico. A strategy for intervention] Riley LW, et al. **Bol Of Sanit Panam** 1990 Feb;108(2):93–9 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Risk of diarrhea during the first year of life associated with initial and subsequent colonization by specific enteropathogens. Cravioto A, et al. **Am J Epidemiol** 1990 May;131(5):886–904

Circulating and breast–milk anti–rotaviral antibodies and neonatal rotavirus infections: a maternal–neonatal study. Haffejee IE, et al. **Ann Trop Paediatr** 1990 Mar;10(1):3–14

Aetiological factors of infantile diarrhoea: a community–based study. Loening WE, et al. **Ann Trop Paediatr** 1989 Dec;9(4):248–55

Rotavirus serotypes causing acute diarrhoea in hospitalized children in Yogyakarta, Indonesia during 1978–1979. Bishop RF, et al. **Arch Virol** 1989;107(3–4):207–13

Rotavirus identification in jejunal juice and stools of acute and chronic forms of infantile gastroenteritis. Candeias JA, et al. **Braz J Med Biol Res** 1989;22(7):833–9

Infant feeding and risk of severe diarrhoea in Basrah city, Iraq: a case–control study. Mahmood DA, et al. **Bull World Health Organ** 1989;67(6):701–6

Mixed infections in childhood diarrhoea: results of a community study in Kiambu District, Kenya. Chunge RN, et al. **East Afr Med J** 1989 Nov;66(11):715–23

Diarrhoeal diseases in preterm neonates [editorial] Wasunna A. **East Afr Med J** 1990 Apr;67(4):221–2

Persistent diarrhoea. **Indian J Pediatr** 1989 Jul–Aug; 56(4):545–8

Cholera gastroenteritis amongst children in Delhi. Aggarwal P, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):93–6

Aggregative Escherichia coli, Salmonella, and Shigella are associated with increasing duration of diarrhea. Bhan MK, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):81–6

Characteristics of Escherichia coli isolates from infantile and childhood diarrhea. Jayasheela M, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):87–92

Measles–associated diarrhoea in the Infectious Diseases Hospital, Rangoon. Han AM, et al. **J Trop Med Hyg** 1990 Jun;93(3):205–9

Bacterial aetiology of infantile diarrhoea in Papua New Guinea. Miwatani T, et al. **J Trop Pediatr** 1990 Jun; 36(3):101–3

Clinical and nutritional consequences of lactose feeding during persistent postenteritis diarrhea. Penny ME, et al. **Pediatrics** 1989 Nov;84(5):835–44

[A survey on Campylobacter jejuni high infection in a nursery] Chen ZX, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):445–7 (Eng. Abstr.) **(Chi)**

[Cryptosporidiosis in children: epidemics and sporadic cases] Bretagne S, et al. **Ann Pediatr (Paris)** 1990 Jun;37(6):381–6 (Eng. Abstr.) **(Fre)**

[Chronic diarrhea caused by VIP–secreting ganglioneuroblastoma in children. Apropos of a case with a review of the literature] Attat I, et al. **Chirurgie** 1989; 115(3):156–61; discussion 161–2 (16 ref.) (Eng. Abstr.) **(Fre)**

[Chronic nonspecific diarrhea in the infant] Sacher M, et al. **Wien Med Wochenschr** 1989 Sep 30;139(18):443–4 **(Ger)**

[Autoimmune enteropathy causing protracted diarrhea] Naveh Y, et al. **Harefuah** 1990 Apr 1;118(7):382–4 (Eng. Abstr.) **(Heb)**

[Cryptosporidiosis in children from 1 to 2 years of age, with acute diarrhea in Belém, Pará, Brazil] Loureiro EC, et al. **Mem Inst Oswaldo Cruz** 1990 Jan–Mar;84(1):117–22 (Eng. Abstr.) **(Por)**

[Diarrhea associated with Trichomonas hominis in a newborn infant] Mancilla–Ramírez J, et al. **Bol Med Hosp Infant Mex** 1989 Sep;46(9):623–5 (Eng. Abstr.) **(Spa)**

[Effect of the diet on duodenal bacterial flora in malnourished infants with chronic diarrhea] Urrestarazu MI, et al. **GEN** 1987 Oct–Dec;41(4):126–31 (Eng. Abstr.) **(Spa)**

[Pathogenic agents in acute non–enterocolic diarrheal syndrome] Gutiérrez J, et al. **Rev Chil Pediatr** 1989 Jan–Feb;60(1):28–33 (Eng. Abstr.) **(Spa)**

[Rotavirus in the feces of children with acute diarrhea in Cochabamba, Bolivia] López E, et al. **Rev Chil Pediatr** 1989 Jan–Feb;60(1):34–5 (Eng. Abstr.) **(Spa)**

[Rotavirus infection in children with acute diarrhea in Habana City] Esquivel Rivero M, et al. **Rev Cubana Med Trop** 1989 Sep–Dec;41(3):435–42 (Eng. Abstr.) **(Spa)**

[Campylobacter jejuni and Campylobacter coli: epidemiologic markers of isolated strains in Santiago, Chile] Maggi L, et al. **Rev Med Chil** 1988 Nov;116(11):1105–10 **(Spa)**

IMMUNOLOGY

The protective effect of human milk against diarrhea. A review of studies from Bangladesh. Glass RI, et al. **Acta Paediatr Scand Suppl** 1989;351:131–6 (12 ref.)

An observational study of naturally acquired immunity to rotaviral diarrhea in a cohort of 363 Egyptian children. Calculation of risk for second episodes using age–specific person–years of observation. Reves RR, et al. **Am J Epidemiol** 1989 Nov;130(5):981–8

Serum anti–gliadin antibody profile in childhood protracted diarrhoea due to coeliac disease and other causes in a developing country. Khoshoo V, et al. **Scand J Gastroenterol** 1989 Dec;24(10):1212–6

[Presence of specific factors in mother's milk against strains of diarrhea–causing Escherichia coli in humans] Cravioto A. **Gac Med Mex** 1990 Jan–Feb;126(1):35–42; discussion 42–3 (Eng. Abstr.) **(Spa)**

METABOLISM

Oral copper supplementation: effect on copper and zinc balance during acute gastroenteritis in infants. Castillo–Durán C, et al. **Am J Clin Nutr** 1990 Jun; 51(6):1088–92

Hydrolysis and absorption of glucose polymers from rice compared with corn in chronic diarrhea of infancy [published erratum appears in J Pediatr 1990 Sep;117(3):502] Sloven DG, et al. **J Pediatr** 1990 Jun; 116(6):876–81

Serum and rectal mucosal magnesium status in acute and chronic diarrhoea. Mittal NK, et al. **J Trop Pediatr** 1990 Jun;36(3):121–5

Zinc and copper wastage during acute diarrhea. **Nutr Rev** 1990 Jan;48(1):19–22 (8 ref.)

MICROBIOLOGY

Incidence of multiple antibiotic resistances in organisms isolated from cases of infantile diarrhoea in a Nigerian oral rehydration therapy clinic. Lamikanra A, et al. **Ann Trop Paediatr** 1989 Dec;9(4):256–60

Aetiology of diarrhoea in pre–term neonates at Kenyatta National Hospital nursery, Nairobi, Kenya. Mutanda LN, et al. **East Afr Med J** 1990 Apr;67(4):223–30

Adhesive properties of enteropathogenic Escherichia coli isolated from infants with acute diarrhea in Africa. Forestier C, et al. **Eur J Clin Microbiol Infect Dis** 1989 Nov;8(11):979–83

Yersinia enterocolitica associated diarrhoea in a neonate [letter] Jacobs J, et al. **Eur J Clin Microbiol Infect Dis** 1989 Nov;8(11):1005–6

Studies on the pathogenicity of classical enteropathogenic Escherichia coli strains isolated from acute diarrhoea among children 0–5 years of age. Ananthan S, et al. **Indian J Pathol Microbiol** 1989 Apr;32(2):92–100

Enterotoxigenicity and drug sensitivity of Aeromonas hydrophila isolated from well water in Sweden: a case study. Krovacek K, et al. **Int J Food Microbiol** 1989 May; 8(2):149–54

Colonization of neonates in a nursery ward with enteropathogenic Escherichia coli and correlation to the clinical histories of the children. Senerwa D, et al. **J Clin Microbiol** 1989 Nov;27(11):2539–43

Adhesion to cells in culture and plasmid profiles of enteropathogenic Escherichia coli isolated from outbreaks and sporadic cases of infant diarrhoea. Scotland SM, et al. **J Infect** 1989 Nov;19(3):237–49

A sensitive and specific DNA probe to identify enteroaggregative Escherichia coli, a recently discovered diarrheal pathogen. Baudry B, et al. **J Infect Dis** 1990 Jun; 161(6):1249–51

Clonal relationships among classic enteropathogenic Escherichia coli (EPEC) belong to different O groups. Orskov F, et al. **J Infect Dis** 1990 Jul;162(1):76–81

Detection by immune electron microscopy of 27–nm viral particles associated with community–acquired diarrhea in children. Vial PA, et al. **J Infect Dis** 1990 Mar;161(3):571–3

Transmissible trimethoprim resistance in strains of Escherichia coli isolated from cases of infantile diarrhoea. Lamikanra A, et al. **J Med Microbiol** 1990 Jul;32(3):159–62

A study of the incidence of enterotoxigenic Escherichia coli (ETEC) secreting heat–labile toxin in two communities in south–western Nigeria. Ako–Nai AK, et al. **J Trop Med Hyg** 1990 Apr;93(2):116–8

Aetiological studies of diarrhoeal diseases in infants and young children in Iran. Katouli M, et al. **J Trop Med Hyg** 1990 Feb;93(1):22–7

Ecological studies on intestinal microbial flora of Kenyan children with diarrhoea. Tazume S, et al. **J Trop Med Hyg** 1990 Jun;93(3):215–21

Role of rotavirus and enteric adenovirus in acute paediatric diarrhoea at an urban hospital in Mexico. Puerto FI, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):396–8

[Clinical and epidemiologic findings from a study of rotavirus infections in hospitalized children] Pazdiora P, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jun;39(3):149–54 (Eng. Abstr.) **(Cze)**

[Electrophoretic types of RNA from human rotaviruses isolated from a population of children in Dakar (Senegal)] Cisse MF, et al. **Dakar Med** 1988;33(1–4):56–9 (Eng. Abstr.) **(Fre)**

[Role of Campylobacter in the etiology of diarrheas in Tunisia] Fendri C, et al. **Tunis Med** 1989 Aug–Sep; 67(8–9):517–20 (Eng. Abstr.) **(Fre)**

[Cryptosporidium as a co–pathogen in infantile diarrhea and pneumonia] Bin Gadeem H, et al. **Orv Hetil** 1990 Jul 1; 131(26):1423–5 (Eng. Abstr.) **(Hun)**

[Rotavirus in stools from hospitalized children] Abrahamsen TG, et al. **Tidsskr Nor Laegeforen** 1989 Nov 30; 109(33):3419–20 (Eng. Abstr.) **(Nor)**

[Selected properties of lactose–fermenting and non–fermenting Salmonella agona strains isolated from specimens from hospitalized infants] Kukulska D, et al. **Med Dosw Mikrobiol** 1989;41(2):115–20 (Eng. Abstr.) **(Pol)**

[Bacterial etiological factors of diarrhea in the stool of infants hospitalized in January 1987] Torbicka E, et al. **Przegl Epidemiol** 1989;43(4):366–72 (Eng. Abstr.) **(Pol)**

[The incidence of enterotoxigenic Escherichia coli, rotavirus and Clostridium perfringens from cases of diarrhea in children, in the region of Campinas, SP, Brazil] Gatti MS, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec; 31(6):392–8 (Eng. Abstr.) **(Por)**

[Clinical evaluation of the stool culture in acute diarrhea] Navarro González J, et al. **An Esp Pediatr** 1989 Jun; 30(6):457–62 (Eng. Abstr.) **(Spa)**

[Use of a rapid method for detecting adenovirus in the feces of children] Ortiz de Lejarazu Leonardo R, et al. **An Esp Pediatr** 1990 Mar;32(3):233–6 (Eng. Abstr.) **(Spa)**

MORTALITY

Vitamin A and diarrhoea. **Indian J Pediatr** 1989 Jul–Aug; 56(4):550–3

A study of infant mortality and causes of death in a rural north–east Brazilian community. Bailey P, et al. **J Biosoc Sci** 1990 Jul;22(3):349–63

The impact of diarrhoeal disease on childhood deaths in the RSA, 1968–1985. Yach D, et al. **S Afr Med J** 1989 Nov 4;76(9):472–5

PARASITOLOGY

Cryptosporidiosis: report of a case with life–threatening diarrhea. Jongwutiwes S, et al. **J Med Assoc Thai** 1990 Apr;73(4):234–8

PATHOLOGY

Cytopathic effects of measles virus on the human intestinal mucosa. Pirapinyo P, et al. **J Pediatr Gastroenterol Nutr** 1990 May;10(4):550–4

PHYSIOPATHOLOGY

Factors influencing the duration of acute diarrheal disease in infancy. Housham KC, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):37–40

Prediction of total daily fecal excretion during acute childhood diarrhea. Lembcke J, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):467–72

Diarrhoea and malnutrition [letter] Briend A, et al. **Lancet** 1989 Nov 11;2(8672):1150

PREVENTION & CONTROL

Strategies for the development of a rotavirus vaccine against infantile diarrhea with an update on clinical trials of rotavirus vaccines. Kapikian AZ, et al. **Adv Exp Med Biol** 1989;257:67–89 (78 ref.)

Rhesus Rotavirus candidate vaccine. Clinical trial in children vaccinated between 2 and 5 months of age. Vesikari T, et al. **Am J Dis Child** 1990 Mar;144(3):285–9

Monitoring selective components of primary health care: methodology and community assessment of vaccination, diarrhoea, and malaria practices in Conakry, Guinea. ACSI–CCCD team. Dabis F, et al. **Bull World Health Organ** 1989;67(6):675–84

Erosion of a resource [editorial] Awori A. **East Afr Med J** 1989 Nov;66(11):705–6

Rotavirus vaccines. **Indian J Pediatr** 1989 Jul–Aug; 56(4):548–50

Effect of accelerated natural lactic fermentation of infant food ingredients on some pathogenic microorganisms. Nout MJ, et al. **Int J Food Microbiol** 1989 Jul;8(4):351–61

Breastfeeding as an intervention within diarrheal diseases control programs: WHO/CDD activities. Hogan R, et al. **Int J Gynaecol Obstet** 1990;31 Suppl 1:115–9; discussion 135–7

Prospective study of diarrheal diseases in Venezuelan children to evaluate the efficacy of rhesus rotavirus vaccine. Perez–Schael I, et al. **J Med Virol** 1990 Mar; 30(3):219–29

Protection of breast–fed infants against Campylobacter diarrhea by antibodies in human milk. Ruiz–Palacios GM, et al. **J Pediatr** 1990 May;116(5):707–13

International travel and the child younger than two years: II. Recommendations for prevention of travelers' diarrhea and malaria chemoprophylaxis. Nahlen BL, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):735–9 (13 ref.)

Effect of dose and a comparison of measures of vaccine take for oral rhesus rotavirus vaccine. The Maryland Clinical Studies Group. Pichichero ME, et al. **Pediatr Infect Dis J** 1990 May;9(5):339–44

Evaluation of RIT 4237 bovine rotavirus vaccine in newborn infants: correlation of vaccine efficacy to season of birth in relation to rotavirus epidemic period. Ruuska T, et al. **Scand J Infect Dis** 1990;22(3):269–78

[Mother's attitude and behavior in acute diarrhea] Ayach R, et al. **Tunis Med** 1990 Jan;68(1):37–40 (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

[Effects of stimulation available at home and of mother–child interaction on the presence and duration of diarrhea in young infants] Arrieta R, et al. **Bol Med Hosp Infant Mex** 1990 Apr;47(4):219–26 (Eng. Abstr.) **(Spa)**

THERAPY

Overview of childhood acute diarrhoea in Europe: implications for oral rehydration therapy. Guandalini S. **Acta Paediatr Scand Suppl** 1989;364:5–12 (28 ref.)

Oral rehydration in acute infantile diarrhea. Balistreri WF. **Am J Med** 1990 Jun 20;88(6A):30S–33S

Cereal based oral rehydration solutions. Kenya PR, et al. **Arch Dis Child** 1989 Jul;64(7):1032–5

Oral rehydration therapy in Malawi: impact on the severity of disease and on hospital admissions, treatment practices, and recurrent costs. Heymann DL, et al. **Bull World Health Organ** 1990;68(2):193–7

In rural Indonesia social marketing of oral rehydration salts the mothers' perspective. Mantra IB, et al. **Hygie** 1989 Dec; 8(4):26–31

A comparative study of three types of ORS in the management of diarrheal dehydration. Fakhir S, et al. **Indian J Pediatr** 1990 Jan–Feb;57(1):81–7

Impact of oral rehydration therapy on maternal beliefs and practices related to acute diarrhea. Kumar V, et al. **Indian J Pediatr** 1989 Mar–Apr;56(2):219–25

Neonatal diarrhoea and oral rehydration therapy. Bhargava SK, et al. **J Indian Med Assoc** 1989 Oct;87(10):243–4 (25 ref.)

A comparison of rice–based oral rehydration solution and "early feeding" for the treatment of acute diarrhea in infants. Santosham M, et al. **J Pediatr** 1990 Jun; 116(6):868–75

The use of oral hydration in the treatment of children with acute diarrhea in primary care. Delucchi MA, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):328–34

Management of malnourished children with acute diarrhoea and sugar intolerance. Beau JP, et al. **J Trop Pediatr** 1989 Dec;35(6):281–4

Oral rehydration therapy in the 1990s [editorial] Ebrahim GJ. **J Trop Pediatr** 1989 Oct;35(5):209–10

Home prepared oral rehydration solution. Sunoto. **Paediatr Indones** 1987 Nov–Dec;27(11–12):237–50

Mutual benefits of linking CDD and Nutrition Programs. Sutoto. **Paediatr Indones** 1989 Jul–Aug;29(7–8):160–5

The management of diarrheal dehydration in infants using parenteral fluids. Kallen RJ. **Pediatr Clin North Am** 1990 Apr;37(2):265–86 (31 ref.)

Acute diarrhea in children. What to do and what not to do. Leung AK, et al. **Postgrad Med** 1989 Dec;86(8):161–4, 167–74 (43 ref.)

An evaluation of the impact of care groups on knowledge about oral fluid therapy. Bac DJ, et al. **S Afr Med J** 1989 Nov 4;76(9):500–2

Knowledge and availability of oral rehydration solution in Khayelitsha [letter] Coetzee N, et al. **S Afr Med J** 1989 Nov 4;76(9):514–5

Oral rehydration solutions in 'section 30' areas. A study in two farming districts in the southern Transvaal. Edginton ME. **S Afr Med J** 1989 Nov 4;76(9):509–10

Towards consensus on oral fluid therapy in diarrhoeal diseases [editorial] Ferrinho P, et al. **S Afr Med J** 1989 Nov 4;76(9):459–60

Diarrhoeal diseases and oral fluid therapy in the Gelukspan health ward. Ferrinho PD, et al. **S Afr Med J** 1989 Nov 4;76(9):496–9

Treatment of diarrhoea by white child–carers in southern Johannesburg [letter] Raynal AL. **S Afr Med J** 1989 Nov 4;76(9):515

Awareness of oral rehydration at well–baby clinics in Johannesburg. Ross MH, et al. **S Afr Med J** 1989 Nov 4;76(9):492–5

Infant diarrhoea in Soweto—how much oral rehydration therapy? Wagstaff LA, et al. **S Afr Med J** 1989 Nov 4; 76(9):489–91

A comparative study of furazolidone and placebo in addition to oral rehydration in the treatment of acute infantile diarrhea. Okhuysen PC, et al. **Scand J Gastroenterol Suppl** 1989;169:39–46

Diarrhoeal diseases control programme. Diarrhoea case management survey. **Wkly Epidemiol Rec** 1990 Jan 26; 65(4):21–4 **(Eng, Fre)**

[The fight against diarrheal disease in Yemen: introduction of oral rehydration therapy] Kudlová E. **Cesk Pediatr** 1990 Jan;45(1):35–8 (Eng. Abstr.) **(Cze)**

[Oral rehydration solution or physiology in public health] Desjeux JF, et al. **Bull Acad Natl Med** 1990 Jan;174(1):55–9; discussion 59–60 (Eng. Abstr.) **(Fre)**

[Parenteral rehydration treatment of acute diarrhea] Brodehl J, et al. **Monatsschr Kinderheilkd** 1989 Sep;137(9):578–84 (Eng. Abstr.) **(Ger)**

[Importance of oral rehydration in acute infantile diarrhea. Comparison of 2 rehydration solutions] Ansaldi N, et al. **Minerva Pediatr** 1990 Jan–Feb;42(1–2):9–14 (Eng. Abstr.) **(Ita)**

[Parenteral feeding in the treatment of protracted diarrhea in infants] Burakovskiĭ NI, et al. **Pediatriia** 1989;(10):81–2 **(Rus)**

[Treatment of diarrheic disease at home. Comparison of 2 forms of oral solutions: liquid and concentrated in small bags] Mota–Hernández F, et al. **Bol Med Hosp Infant Mex** 1990 May;47(5):324–31 (Eng. Abstr.) **(Spa)**

URINE

Transient organic aciduria and methemoglobinemia with acute gastroenteritis. Kay MA, et al. **Pediatrics** 1990 Apr; 85(4):589–92

DIARRHEOGENIC TUMOR see under **ISLET CELL TUMOR**

DIASTASE see **AMYLASES**

DIASTEMA

see related
LABIAL FRENUM

Incidence and etiology of midline diastema in a population in south India (Madras). Nainar SM, et al. **Angle Orthod** 1989 Winter;59(4):277–82

Spacing in the human deciduous dentition in relation to tooth size and dental arch size. el–Nofely A, et al. **Arch Oral Biol** 1989;34(6):437–41

PATHOLOGY

[Characteristics of the structure of the palatine suture and interalveolar septum in normal children and in diastema] Kamysheva LI, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb; 69(1):76–8 (Eng. Abstr.) **(Rus)**

THERAPY

An American Board of Orthodontics case report. Dietrich TS. **Am J Orthod Dentofacial Orthop** 1990 Mar;97(3):181–7

A quick method for prediction of closure of diastema between permanent central incisors. Sanin C, et al. **Int J Orthod** 1970 Jun;8(2):77–9

Mobile connection of veneer crowns after orthodontic closure of a wide diastema in the maxillae. A clinical report. Planert J, et al. **J Prosthet Dent** 1989 Oct;62(4):379–80

[Maxillary central diastema. A case study] Verluyten P. **Rev Belge Med Dent** 1989;44(3):117–22 (Eng. Abstr.) **(Fre)**

[The superior median frenulum. Surgical–orthodontic treatment of a recurrence] Antoni R, et al. **Clin Ter** 1989 Jul 31;130(2):95–100 (Eng. Abstr.) **(Ita)**

DIASTEMATOMYELIA see **NEURAL TUBE DEFECTS**

DIASTOLE see under **MYOCARDIAL CONTRACTION**

DIASTOLIC COUNTERPULSATION see **COUNTERPULSATION**

DIATHERMY

Pulsed electromagnetic (short–wave) energy therapy. Goats GC. **Br J Sports Med** 1989 Dec;23(4):213–6

Continuous short–wave (radio–frequency) diathermy. Goats GC. **Br J Sports Med** 1989 Jun;23(2):123–7 (43 ref.)

Tonsillectomy haemostasis: diathermy or ligation. Phillipps JJ, et al. **Clin Otolaryngol** 1989 Oct;14(5):419–24

Interstitial thermoradiotherapy: thermal dosimetry and clinical results. Shimm DS, et al. **Int J Radiat Oncol Biol Phys** 1990 Feb;18(2):383–7

[Clinical results of loco–regional hyperthermia combined with chemotherapy in the treatment of malignant tumors] Masunaga S, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Jan 20;25(1):6–12 (Eng. Abstr.) **(Jpn)**

[Functional asymmetry as an indicator of the biological effect of ultrahigh frequency electromagnetic fields] Stoian EF. **Gig Sanit** 1989 Oct;(10):81–2 **(Rus)**

ADVERSE EFFECTS

Necrotizing granulomas of peritoneum following diathermy ablation of endometriosis. Clarke TJ, et al. **Histopathology** 1990 Apr;16(4):400–2

Incidence of tumours in the cervical region of the rat after treatment with radiation and hyperthermia. Sminia P, et al. **Int J Radiat Biol** 1990 Feb;57(2):425–36

INSTRUMENTATION

An evaluation of radiofrequency exposure from therapeutic diathermy equipment in the light of current recommendations. Martin CJ, et al. **Clin Phys Physiol Meas** 1990 Feb;11(1):53–63

Shortwave diathermy units. **Health Devices** 1988 Aug; 17(8):247

27 MHz conformal capacitive ring (CR) applicators for uniform hyperthermic/diathermic treatment of body segments with axial fields. Raganella L, et al. **IEEE Trans Biomed Eng** 1989 Nov;36(11):1124–32

A diathermy suppression filter for external pacemakers. Marshall I, et al. **J Med Eng Technol** 1990 Jul–Aug; 14(4):155–7

[Levels of the electromagnetic field in the vicinity of therapeutic devices using radiofrequency and microwaves] Scandurra G. **Med Lav** 1989 Jul–Aug;80(4):335–40 (Eng. Abstr.) **(Ita)**

METHODS

Colposcopic diagnosis and treatment of cervical dysplasia at a single clinic visit. Experience of low-voltage diathermy loop in 1000 patients. Bigrigg MA, et al. **Lancet** 1990 Jul 28;336(8709):229–31

Diathermy loop excision and the cervix [letter; comment] Hallam N, et al. **Lancet** 1989 Nov 11;2(8672):1160 Comment on: Lancet 1989 Aug 19;2(8660):453–4.

Patients' acceptance of diathermy loop treatment [letter] Jones M, et al. **Lancet** 1990 Sep 15;336(8716):698

DIATHERMY, SURGICAL see **ELECTROCOAGULATION**

DIATHESIS see **DISEASE SUSCEPTIBILITY**

DIATRIZOATE

[A simple method for separating fresh and cryopreserved human sperm using dextran–visotrast density gradient centrifugation] Glander HJ, et al. **Zentralbl Gynakol** 1990; 112(2):91–7 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Factors affecting penetration of retrograde coronary venous injections into normal and ischemic canine myocardium: assessment by contrast echocardiography and digital angiography. Punzengruber C, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):21–32

Iodinated contrast medium as an aid to gallstone dissolution with methyl tert–butyl ether: in vitro study. Zhou J, et al. **Radiology** 1990 May;175(2):479–82

ADVERSE EFFECTS

Contrast media adversely affect oxyhemoglobin dissociation. Kim SJ, et al. **Anesth Analg** 1990 Jul;71(1):73–6

Anaphylactic death from methylglucamine and sodium diatrizoate (Renovist). Shoultz CA, et al. **Ann Allergy** 1968 Jan;26(1):40–3

Cytogenic effects of diatrizoate and ioxaglate on patients undergoing excretory urography. Nuñez ME, et al. **Invest Radiol** 1990 Jun;25(6):692–7

Acute iodide–induced enlargement of the salivary glands. Wolf M, et al. **J Oral Maxillofac Surg** 1990 Jan;48(1):71–2

Renal functional response to dopamine during and after arteriography in patients with chronic renal insufficiency. Hans B, et al. **Radiology** 1990 Sep;176(3):651–4

[Effects of contrast media on left ventricular function. Comparison with iohexol and diatrizoate] Kato N, et al. **Kokyu To Junkan** 1990 Jun;38(6):559–63 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Serum diatrizoate level during intraoperative cholangiography in patients without choledochal obstructions. Sakahira K, et al. **Dig Dis Sci** 1990 Sep; 35(9):1085–8

DIAGNOSTIC USE

Adriamycin nephrosis and contrast media. A comparison between diatrizoate and iohexol in rats. Thomsen HS, et al. **Acta Radiol** 1990 Jan;31(1):93–8

Changes in complement components after intravascular application of contrast media. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247B:585–9

Comparison of omnipaque with hypaque in temporomandibular arthrography. Kaplan PA, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1225–7

Choice of contrast material for four–hour delayed contrast–enhanced computed tomography of the liver. Feuerstein IM, et al. **Invest Radiol** 1989 Oct;24(10):776–80

Computed body tomography with a new nonionic contrast agent. Comparison of ioversol with sodium/meglumine diatrizoate. McClennan BL, et al. **Invest Radiol** 1989 Jun; 24 Suppl 1:S35–8

Intraoperative perfusion contrast echocardiography. Initial experience during coronary artery bypass grafting. Kabas JS, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):536–42

[The pathomorphological changes in the pleura of rabbits with artificial pneumothorax and uropolin pleurography] Dakov I, et al. **Eksp Med Morfol** 1990;29(1):22–6 (Eng. Abstr.) **(Bul)**

[A double–blind randomized comparative study of iopromide and amidotrizoate in the angiocardiography of infants and young children with congenital heart defects] Gliech V, et al. **Radiol Diagn (Berl)** 1989;30(3):328–32 (Eng. Abstr.) **(Ger)**

[The effect of ionic and nonionic x–ray contrast media on myocardial perfusion and myocardial function] Jonczyk A, et al. **Radiol Diagn (Berl)** 1989;30(3):314–9 (Eng. Abstr.) **(Ger)**

[The effect of ionic and nonionic contrast media (amidotrizoate, iopromide) on cardiac function (contractility, relaxation, perfusion)] Modersohn D, et al. **Radiol Diagn (Berl)** 1989;30(3):320–3 (Eng. Abstr.) **(Ger)**

[Comparison of intravenous drip infusion excretory urography using ionic and non–ionic contrast media] Onitsuka H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jul 25; 49(7):915–20 (Eng. Abstr.) **(Jpn)**

METABOLISM

Excretion urography. I. Factors determining the excretion of Hypaque. Cattell WR, et al. **Br J Radiol** 1967 Aug; 40(476):561–71

Excretion urography. II. The relation between Hypaque excretion and the intravenous urogram. Fry IK, et al. **Br J Radiol** 1967 Aug;40(476):572–80

PHARMACOLOGY

Effects of intravascular ionic and non–ionic radiographic contrast agents on parameters of the kallikrein–kinin–system. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247A:477–80

Radiocontrast medium–induced declines in renal function: a role for oxygen free radicals. Bakris GL, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F115–20

Influence of ionic and non–ionic radiographic contrast media on the vasomotor tone of epicardial coronary arteries. Jost S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:60–5

Iodinated contrast media effects on extravascular lung water, central blood volume, and cardiac output in humans. Böck JC, et al. **Invest Radiol** 1990 Aug;25(8):938–41

Effects of ionic and nonionic contrast media on bradyarrhythmia during coronary angiography: a comparison of Renografin–76, Hypaque–76, and Isovue–370. Piao ZE, et al. **J Lab Clin Med** 1990 Jan; 115(1):122–7

Effect of atriopeptin II on contrast medium–induced changes in renal blood flow. Bentley MD, et al. **Kidney Int** 1989 Jul;36(1):13–9

TOXICITY

Nephrotoxicity of cyclosporin A and contrast media. A comparison between diatrizoate and iohexol in rats. Thomsen HS, et al. **Acta Radiol** 1989 Nov–Dec; 30(6):647–53

DIATRIZOATE MEGLUMINE

Elimination of red blood cells from marrow suspension prior to transplantation using polysaccharide–ditrizoate gradient centrifugation. Experimental studies. Ratajczak MZ, et al. **Folia Haematol (Leipz)** 1989;116(3–4):469–73

The effect of radiographic contrast media on ultrasonically detectable red blood cell aggregation in vitro. Kallio T, et al. **Invest Radiol** 1989 Oct;24(10):789–93

Positive contrast arthrography of the dog's shoulder with meglumine–sodium diatrizoate. van Bree H, et al. **Zentralbl Veterinarmed** [A] 1989 Jul;36(6):421–30

[A simple method for separating fresh and cryopreserved human sperm using dextran–visotrast density gradient centrifugation] Glander HJ, et al. **Zentralbl Gynakol** 1990; 112(2):91–7 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Factors affecting penetration of retrograde coronary venous injections into normal and ischemic canine myocardium: assessment by contrast echocardiography and digital angiography. Punzengruber C, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):21–32

[Left ventricular function at the time of left x–ray contrast ventriculography] Savchenko AP, et al. **Ter Arkh** 1990; 62(4):24–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Urinary protein excretion following intravenously administered ionic and non–ionic contrast media in man. Skovgaard N, et al. **Acta Radiol** 1989 Sep–Oct;30(5):517–9

Effect of diatrizoate on renal extraction of PAH in man. Tidgren B, et al. **Acta Radiol** 1989 Sep–Oct;30(5):521–4

Gastrografin to evaluate postoperative patients in whom anastomotic leakage is suspected [letter] Ginai AZ. **Am J Surg** 1990 Sep;160(3):322–3

Contrast media adversely affect oxyhemoglobin dissociation. Kim SJ, et al. **Anesth Analg** 1990 Jul;71(1):73–6

The influence of buscopan on adverse reactions to intravascular contrast media. Sharma S, et al. **Br J Radiol** 1989 Dec;62(744):1056–8

T4–thyroid storm after CT–scan with iodinated contrast medium. Shimura H, et al. **J Endocrinol Invest** 1990 Jan; 13(1):73–6

Transient cortical blindness following cerebral angiography. Shyn PB, et al. **J La State Med Soc** 1989 Nov;141(11):35–7

Acute iodide–induced enlargement of the salivary glands. Wolf M, et al. **J Oral Maxillofac Surg** 1990 Jan;48(1):71–2

Allergic reaction following micturating cystourethrography. Bettenay F, et al. **Urol Radiol** 1989;11(3):167–8

[A life–threatening contrast–medium reaction during ERCP (letter)] Zimmerer J, et al. **Dtsch Med Wochenschr** 1990 Jul 6;115(27):1077–8 **(Ger)**

DIAGNOSTIC USE

Changes in complement components after intravascular application of contrast media. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247B:585–9

Comparison of meglumine sodium diatrizoate, iopamidol, and iohexol for coronary angiography and ventriculography. Murdock CJ, et al. **Cathet Cardiovasc Diagn** 1990 Mar; 19(3):179–83

Comparison of Telebrix Gastro and Gastrografin in abdominal computed tomography. van Waes PF, et al. **Eur J Radiol** 1989 Aug;9(3):179–81

Computed body tomography with a new nonionic contrast agent. Comparison of ioversol with sodium/meglumine diatrizoate. McClennan BL, et al. **Invest Radiol** 1989 Jun; 24 Suppl 1:S35–8

Quantifying changes in regional myocardial perfusion with aortic contrast echocardiography. Kemper AJ, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):36–47

Intraoperative perfusion contrast echocardiography. Initial experience during coronary artery bypass grafting. Kabas JS, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):536–42

Three–compartment wrist arthrography: use of a low–iodine–concentration contrast agent to decrease study time [see comments] Conway WF, et al. **Radiology** 1989 Nov;173(2):569–70 Comment in: Radiology 1990 May;175(2):585–6.

[The pathomorphological changes in the pleura of rabbits with artificial pneumothorax and uropolin pleurography] Dakov I, et al. **Eksp Med Morfol** 1990;29(1):22–6 (Eng. Abstr.) **(Bul)**

[Postoperative sonography in gastrectomized patients. Correlations with gastrografin swallow. Value in the detection of complications with special reference to anastomosis insufficiency] Helzel MV, et al. **Rontgenblatter** 1989 Nov;42(11):470–7 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Renal excretion of enteral gastrografin in the absence of free intestinal perforation. Hay M, et al. **Clin Radiol** 1990 Feb; 41(2):137–8

[Urography and renal clearance of contrast media. A randomized comparison of an ionic high–osmolar and a non–ionic low–osmolar contrast medium] Vestergaard AS, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):154–7 (Eng. Abstr.) **(Dan)**

[The renal transport of cardiotrast, verografin and iodamide] Ul'ianov GP, et al. **Farmakol Toksikol** 1990 Jan–Feb; 53(1):62–4 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effects of intravascular ionic and non–ionic radiographic contrast agents on parameters of the kallikrein–kinin–system. Hoffmeister HM, et al. **Adv Exp Med Biol** 1989;247A:477–80

Histamine release following the administration of iodinated contrast media during cardiac catheterization. Negro JM, et al. **Allergol Immunopathol (Madr)** 1989 Nov–Dec; 17(6):313–6

Effect of intracoronary contrast medium on left ventricular diastolic pressure–volume relationships. Kløw NE, et al. **Am Heart J** 1990 Jan;119(1):59–63

Radiocontrast medium–induced declines in renal function: a role for oxygen free radicals. Bakris GL, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F115–20

Biological dosimetry for iodine contrast medium and X–ray interactions by cell survival. Tokita N, et al. **Br J Radiol** 1990 Sep;63(753):735–7

Effects of ionic and nonionic contrast media on bradyarrhythmia during coronary angiography: a comparison of Renografin–76, Hypaque–76, and Isovue–370. Piao ZE, et al. **J Lab Clin Med** 1990 Jan; 115(1):122–7

Effect of atriopeptin II on contrast medium–induced changes in renal blood flow. Bentley MD, et al. **Kidney Int** 1989 Jul;36(1):13–9

[A comparative assessment of the effect of Omnipaque and Verografin on ECG indices and myocardial contractility in patients with unstable angina during coronary ventriculography] Savchenko AP, et al. **Vestn Rentgenol Radiol** 1989 Jul–Aug;(4):13–6 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Intussusception: hydrostatic pressure equivalents for barium and meglumine sodium diatrizoate. Kuta AJ, et al. **Radiology** 1990 Apr;175(1):125–6

TOXICITY

Effects of contrast media on myocardial function during acute left ventricular failure in the dog. Kløw NE, et al. **Invest Radiol** 1990 Jan;25(1):41–5

Fatal complications after myelography with meglumine diatrizoate. Hilz MJ, et al. **Neuroradiology** 1990;32(1):70–3

DIATRIZOATE METHYLGLUCAMINE see **DIATRIZOATE MEGLUMINE**

DIATRIZOIC ACID METHYLGLUCAMINE see **DIATRIZOATE MEGLUMINE**

DIAZEPAM

Oral premedication in children: a comparison of chloral hydrate, diazepam, alprazolam, midazolam and placebo for day surgery. Anderson BJ, et al. **Anaesth Intensive Care** 1990 May;18(2):185–93

Five year outcome in patients withdrawn from long term treatment with diazepam. Holton A, et al. **BMJ** 1990 May 12;300(6734):1241–2

Skills related to driving after intravenous diazepam, flunitrazepam or droperidol. Korttila K, et al. **Br J Anaesth** 1974 Dec;46(12):961–9

Comparison of diazepam with midazolam as i.v. sedation for outpatient gastroscopy. Sanders LD, et al. **Br J Anaesth** 1989 Dec;63(6):726–31

Transurethral ureterorenoscopic lithotripsy and retrieval of ureteric calculi under local anaesthesia and sedation. Chan PS, et al. **Br J Urol** 1990 Feb;65(2):141–3

A comparison of sedation for upper GI endoscopy using diazepam with demerol or midazolam with alfentanil. Donelly M, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S21

Oxygen desaturation in elderly patients during cataract surgery. Forrest JB, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S30

Recovery after neuroleptanalgesia for cataract surgery. Forrest JB, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S82

Diazepam abuse in pregnant women on methadone maintenance. Implications for the neonate. Sutton LR, et al. **Clin Pediatr (Phila)** 1990 Feb;29(2):108–11

Randomized, double-blind trial of midazolam and diazepam for endoscopic sedation in children. Tolia V, et al. **Dev Pharmacol Ther** 1990;14(3):141–7

Thiopental-sparing properties of butorphanol/diazepam for induction of anesthesia in ambulatory gynecologic surgery. Sklar GS, et al. **DICP** 1989 Sep;23(9):659–62

Bupivacaine free plasma levels in children after caudal anaesthesia: influence of pretreatment with diazepam? Bruguerolle B, et al. **Fundam Clin Pharmacol** 1990; 4(2):159–61

Double-blind controlled trial of flumazenil in patients who underwent upper gastrointestinal endoscopy. Birkenfeld S, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):519–22

Midazolam/diazepam and amnesia [letter; comment] Polit SA. **Gastrointest Endosc** 1989 Sep–Oct;35(5):469–70 Comment on: Gastrointest Endosc 1989 Mar–Apr;35(2):82–4.

Fentanyl–midazolam–flumazenil anesthesia for induced abortion. Hamar O, et al. **Int J Gynaecol Obstet** 1989 Sep; 30(1):69–72

Efficacy and safety of a diazepam and meperidine combination for pediatric gastrointestinal procedures. Nahata MC, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr; 10(3):335–8

Drug discrimination in rats successively trained to discriminate diazepam and pentobarbital. Nierenberg J, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):405–12

[The behavior of hGH (human growth hormone) and somatomedin C following anesthesia induction with propofol in comparison with diazepam and thiopental] Luger TJ, et al. **Anasth Intensivther Notfallmed** 1989 Aug; 24(4):226–30 (Eng. Abstr.) (Ger)

[Comparison of the use of classic diazoanalgesia in surgery and an applicative variant with buprenorphine] Manni MF, et al. **Minerva Anestesiol** 1989 Oct;55(10):397–402 (Eng. Abstr.) (Ita)

ADMINISTRATION & DOSAGE

The perioperative effects of oral premedication in children. van der Walt JH, et al. **Anaesth Intensive Care** 1990 Feb; 18(1):5–10

Local cerebral glucose utilization following subacute and chronic diazepam pretreatment: differential tolerance. Laurie DJ, et al. **Brain Res** 1989 Dec 11;504(1):101–11

A randomized comparison of midazolam and diazepam injectable emulsion in cataract surgery. Chung F, et al. **Can J Anaesth** 1990 Jul;37(5):528–33

Age-related differences in the use of morphine, diazepam, and pancuronium for mechanically ventilated children. Mickell JJ, et al. **Dev Pharmacol Ther** 1990;14(1):20–8

Discrimination of mode of action of anxiolytics using an integrated computer data bank and Dynamic Brain Mapping (CNS effects of diazepam and lorazepam). Itil T, et al. **Int Clin Psychopharmacol** 1989 Oct;4(4):273–83

The effect of age on the relative potency of midazolam and diazepam for sedation in upper gastrointestinal endoscopy. Scholer SG, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):145–7

Preference for diazepam in anxious adults. McCracken SG, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):190–6

Old routes for old drugs [editorial] Barkin R. **J Emerg Med** 1990 Mar–Apr;8(2):205

The administration of rectal diazepam for acute management of seizures. Seigler RS. **J Emerg Med** 1990 Mar–Apr; 8(2):155–9 (25 ref.)

The potential use of cyclodextrins in parenteral formulations [letter; comment] Aquino S, et al. **J Parenter Sci Technol** 1990 Mar–Apr;44(2):48–9 Comment on: J Parenter Sci Technol 1989 Sep–Oct;43(5):231–40.

Early developmental exposure to benzodiazepine ligands alters brain levels of thiobarbituric acid–reactive products in young adult rats. Miranda RC, et al. **Neurochem Res** 1989 Nov;14(11):1119–27

Animal model of anxiety: effect of acute diazepam treatment in the older adult genetically hypertensive rats of Koletsky type and in the older adult rats of Wistar strain. Golda V, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove** 1989;32(4):407–23

Animal model of anxiety: effect of acute diazepam treatment in the genetically hypertensive rats of Koletsky type and in the rats of Wistar strain. Golda V, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove** 1989;32(1):135–47

[Ataralgesia and local anesthesia in translumbar aorto-arteriography] Dolanský J, et al. **Cesk Radiol** 1990 Jan;44(1):41–3 (Eng. Abstr.) (Cze)

[Treatment with rectal diazepam or acetylsalicylic acid in effervescing tablets in ambulatory cervical curettage and biopsy. A double-blind randomized study] Andersen HJ, et al. **Ugeskr Laeger** 1990 May 14;152(20):1437–9 (Eng. Abstr.) (Dan)

[Role of single-therapy diazepam in severe poisonings by chloroquine (letter)] Saissy JM, et al. **Presse Med** 1989 Dec 9;18(41):2022–3 (Fre)

[Rectal premedication using ketamine, diazepam and atropine in childhood] Fuchs C, et al. **Anaesthesiol Reanim** 1990; 15(1):31–6 (Eng. Abstr.) (Ger)

[Infusion or repetitive bolus injection? A clinical study of midazolam/fentanyl and diazepam/fentanyl combination anesthesia in neurosurgical operations] Mair P, et al. **Anasth Intensivther Notfallmed** 1990 Jan;25 Suppl 1:34–8 (Eng. Abstr.) (Ger)

[The sedative effects of a low dose of butorphanol combined with diazepam during spinal-epidural anesthesia (H-type anesthesia)] Sugiyama A, et al. **Masui** 1989 Sep; 38(9):1161–5 (Eng. Abstr.) (Jpn)

ADVERSE EFFECTS

Diazepam use in relation to breast cancer: results from two case-control studies. Kaufman DW, et al. **Am J Epidemiol** 1990 Mar;131(3):483–90

Diazepam loading for alcohol withdrawal: seizure risk in epileptics [letter] van Sweden B. **Biol Psychiatry** 1989 Dec; 26(8):853–4

Risks associated with giving benzodiazepines to patients with acute neurological injuries. Eldridge PR, et al. **BMJ** 1990 May 5;300(6733):1189–90

Local irritation after administration of diazepam in a rectal solution. Hansen HC, et al. **Br J Anaesth** 1989 Sep; 63(3):287–9

Comparative assessment of efficacy and withdrawal symptoms after 6 and 12 weeks' treatment with diazepam or buspirone [see comments] Murphy SM, et al. **Br J Psychiatry** 1989 Apr;154:529–34 Comment in: Br J Psychiatry 1989 Dec;155:866.

Cerebral glucose utilization during diazepam withdrawal in rats. Marietta CA, et al. **Brain Res** 1990 Mar 19; 511(2):192–6

Sexual dysfunction associated with diazepam but not with clonazepam [letter] Balon R, et al. **Can J Psychiatry** 1989 Dec;34(9):947–8

Neuroleptic malignant syndrome [letter; comment] Frankenburg FR. **Can J Psychiatry** 1990 Feb;35(1):103–4 Comment on: Can J Psychiatry 1989 May;34(4):323–5.

Correlation of delayed peak concentration with infusion-site irritation following diazepam administration. Hussey EK, et al. **DICP** 1990 Jul–Aug;24(7–8):678–81

Panic attacks and major depression after discontinuation of long-term diazepam abuse. Schifano F, et al. **DICP** 1989 Dec;23(12):989–90

Diazepam induced delirium. Madan R, et al. **Indian J Ophthalmol** 1989 Jan–Mar;37(1):35–6

Further query on dystonia [letter; comment] Checchio LM. **J Emerg Med** 1989 Jul–Aug;7(4):412–3 Comment on: J Emerg Med 1988 Nov–Dec;6(6):491–3.

Questions on diazepam-induced dystonia [letter; comment] DeBard ML. **J Emerg Med** 1989 Jul–Aug;7(4):412 Comment on: J Emerg Med 1988 Nov–Dec;6(6):491–3.

Divergence paralysis associated with the ingestion of diazepam. Arai M, et al. **J Neurol** 1990 Feb;237(1):45–6

Chlorpyrifos toxicosis in two cats. Jaggy A, et al. **J Vet Intern Med** 1990 May–Jun;4(3):135–9

Benzodiazepines and fantasy [letter] Lurie Y, et al. **Lancet** 1990 Sep 1;336(8714):576

[Agranulocytosis induced by diazepam and then midazolam. Role of antibodies (letter)] Perrichot R, et al. **Presse Med** 1990 Apr 21;19(16):764 (Fre)

[Interaction of diazepam and levodropropizine evaluated with quantitative EEG] Arrigo A, et al. **Riv Eur Sci Med Farmacol** 1989 Feb;11(1):51–4 (Eng. Abstr.) (Fre)

[Effect of fenibut and seduxen on fetal development in the second half of pregnancy] Filimonov VG, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):37–9 (Eng. Abstr.) (Rus)

ANALOGS & DERIVATIVES

Depressive stupor treated with intramuscular chlordesmethyldiazepam [letter] Benazzi F. **Can J Psychiatry** 1990 Apr;35(3):282

Etizolam in the treatment of generalized anxiety disorder associated with depressive symptoms. Pariante F, et al. **Curr Med Res Opin** 1989;11(9):543–9

Etizolam in the treatment of generalized anxiety disorder: a controlled clinical trial. Bertolino A, et al. **J Int Med Res** 1989 Sep–Oct;17(5):455–60

Determination of pharmacodynamics of diazepam by quantitative pharmaco-EEG. Iwaya N, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):675–84

Cytochrome P450IIIA enzymes in rat liver microsomes: involvement in C3-hydroxylation of diazepam and nordazepam but not N-dealkylation of diazepam and temazepam. Reilly PE, et al. **Mol Pharmacol** 1990 May; 37(5):767–74

Effect of chronic oral delorazepam on in vitro and in vivo hepatic drug-metabolizing enzyme activities in the rat. Conti I, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jan;67(1):87–99

[Control of the side effects of ketamine: chlordemethyldiazepam vs diazepam in pre-anesthesia] D'Eramo C, et al. **Minerva Anestesiol** 1989 Oct; 55(10):413–7 (Eng. Abstr.) (Ita)

[Clinical study of etizolam in patients with anxiety and insomnia] Crea L, et al. **Riv Eur Sci Med Farmacol** 1988 Jun;10(3):253–7 (Eng. Abstr.) (Ita)

ANALYSIS

Occurrence of 'natural' diazepam in human brain. Unseld E, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):210–2

ANTAGONISTS & INHIBITORS

Antagonism of diazepam sedation by flumazenil. Skielboe M, et al. **Br J Anaesth** 1989 Nov;63(5):554–7

The effects of ondansetron (GR38032F) in rats and mice treated subchronically with diazepam. Costall B, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):769–78

[Aminophylline antagonism of the sedation caused by meperidine and diazepam] Chen CH, et al. **Ma Tsui Hsueh Tsa Chi** 1989 Jun;27(2):131–5 (Eng. Abstr.) (Chi)

BLOOD

Plasma levels of diazepam after oral and intramuscular administration [letter] Kanto J. **Br J Anaesth** 1974 Nov; 46(11):817

Screening for drugs in forensic blood samples using EMIT urine assays. Gjerde H, et al. **Forensic Sci Int** 1990 Feb; 44(2–3):179–85

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography. Gaitonde CD, et al. **J Chromatogr** 1990 Jun 29;528(2):407–14

Binding of warfarin, salicylate, and diazepam to genetic variants of human serum albumin with known mutations. Kragh-Hansen U, et al. **Mol Pharmacol** 1990 Feb; 37(2):238–42

DIAGNOSTIC USE

Diazepam as a truth drug [letter] Ellis SJ. **Lancet** 1990 Sep 22;336(8717):752–3

[Effect of diazepam on visual potentials evoked by reversible checkerboard pattern] Kowalski JW, et al. **Neurol Neurochir Pol** 1989 Jul–Dec;23(4–6):311–6 (Eng. Abstr.) (Pol)

METABOLISM

Diazepam-binding inhibitor: a neuropeptide and/or an acyl-CoA ester binding protein? Knudsen J, et al. **Biochem J** 1990 Feb 1;265(3):927–9

Chloramphenicol modifies benzodiazepine receptor rhythm in the pontomesencephalic formation of the rat. López-Colomé AM, et al. **Brain Res** 1990 May 28; 517(1–2):347–50

Necropsy study of GABA/benzodiazepine receptor binding sites in brain tissue from chronic alcoholic patients. Kril JJ, et al. **Clin Exp Neurol** 1988;25:135–41

Cytochrome P450IIIA enzymes in rat liver microsomes: involvement in C3-hydroxylation of diazepam and nordazepam but not N-dealkylation of diazepam and temazepam. Reilly PE, et al. **Mol Pharmacol** 1990 May; 37(5):767–74

Increase of GABA-stimulated diazepam binding after lipid methylation in membrane preparations from rat brain. Benistant C, et al. **Neurosci Lett** 1990 Mar 2; 110(1–2):137–42

Factors influencing the metabolism of diazepam. Bertilsson L, et al. **Pharmacol Ther** 1990;45(1):85–91 (29 ref.)

PHARMACOKINETICS

Evaluation of the potential for interactions of paroxetine with diazepam, cimetidine, warfarin, and digoxin. Bannister SJ, et al. **Acta Psychiatr Scand Suppl** 1989;350:102–6

Factors affecting diazepam availability from intravenous admixture solutions. Arruda WO, et al. **Arq Neuropsiquiatr** 1989 Sep;47(3):291–4

Bioinequivalence of a generic brand of diazepam. Locniskar A, et al. **Biopharm Drug Dispos** 1989 Nov–Dec; 10(6):597–605

Excretion of diazepam and its metabolites in human milk during withdrawal from combination high dose diazepam and oxazepam. Dusci LJ, et al. **Br J Clin Pharmacol** 1990 Jan;29(1):123–6

Effect of omeprazole treatment on diazepam plasma levels in slow versus normal rapid metabolizers of omeprazole. Andersson T, et al. **Clin Pharmacol Ther** 1990 Jan; 47(1):79–85

Diazepam loading in alcohol withdrawal: clinical pharmacokinetics. Heinälä P, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 May;28(5):211–7

Plasma binding and transport of diazepam across the blood-brain barrier. No evidence for in vivo enhanced dissociation. Dubey RK, et al. **J Clin Invest** 1989 Oct;

84(4):1155–9
Effects of protein binding and experimental disease states on brain uptake of benzodiazepines in rats. Lin TH, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):45–50
Pharmacokinetics of misoprostol in the elderly, in patients with renal failure and when coadministered with NSAID or antipyrine, propranolol or diazepam. Nicholson PA, et al. **J Rheumatol Suppl** 1990 Feb;20:33–7
Determination of pharmacodynamics of diazepam by quantitative pharmaco–EEG. Iwaya N, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):675–84
Aging–related changes in brain metabolism are altered by early developmental exposure to diazepam. Miranda R, et al. **Neurobiol Aging** 1990 Mar–Apr;11(2):117–22
The pharmacokinetics of intraduodenally administered diazepam in rats as influenced by composition of the central lymph. Lamka J, et al. **Physiol Bohemoslov** 1989;38(5):441–8
A large–sample study of diazepam pharmacokinetics. Greenblatt DJ, et al. **Ther Drug Monit** 1989 Nov; 11(6):652–7
[Pharmacokinetics of diazepam in hypoalbuminemic resuscitation of patients. Preliminary study] Zazzo JF, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R248 **(Fre)**
[Therapeutic drug monitoring of clonazepam, nitrazepam and diazepam] Hishida H. **Nippon Rinsho** 1990 Feb;48 Suppl:1116–9 **(Jpn)**

PHARMACOLOGY

A peripheral antagonist of benzodiazepine receptors (PK 11195) did not reverse behavioural effects of diazepam in mice. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Dec; 31(4):295–6
Effect of intracerebral injection of chlorpromazine and diazepam on acid phosphatase activity in the mouse brain. Tanwar RK, et al. **Acta Anat (Basel)** 1990;138(2):121–7
Phospholipid and ganglioside composition in rat cerebral cortex and cerebral white matter after chronic diazepam treatment. Vrbaški SR, et al. **Acta Med Iugosl** 1990; 44(3):197–204
Effects of intravenous diazepam and thiopental on the vestibulo–ocular reflex in man. Schalén L, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:165–9
Effects of diazepam on the carotid sinus baroreflex control of circulation in rabbits. Sakamoto M, et al. **Acta Physiol Scand** 1990 Jun;139(2):281–7
On acute effects of some drugs on the higher nervous activity in man. Ethanol (0.5 g/kg) and its interaction with diazepam (5 mg) and meclophenoxate (100 mg). Part LVIII. Hrbek J, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;121:189–233
Acute effects of ethanol (0.5 mg/kg) and its interaction with diazepam (5 mg) and meclophenoxate (100 mg) on the blood pressure, the body temperature and the heart rate in man. Hrbek J, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;121:235–52
Ethanol and chronic diazepam interactions on conflict behavior in rats. Dalterio SL, et al. **Alcohol** 1989 Sep–Oct; 6(5):409–14
Diazepam inhibits stimulating effect of cooling preoptic area on antibody production. Banet M, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R393–7
Benzodiazepines acting on ventral surface of medulla cause airway dilation. Haxhiu MA, et al. **Am J Physiol** 1989 Oct; 257(4 Pt 2):R810–5
Effect of metoprolol and diazepam on pre–operative anxiety. Jakobsen CJ, et al. **Anaesthesia** 1990 Jan;45(1):40–3
Morphine and fentanyl anesthetic interactions with diazepam: relative antagonism in rats. Kissin I, et al. **Anesth Analg** 1990 Sep;71(3):236–41
1,4–Benzodiazepines antagonize opiate–induced antinociception in mice. Rosland JH, et al. **Anesth Analg** 1990 Sep;71(3):242–8
Reduced benzodiazepine sensitivity in panic disorder. Roy–Byrne PP, et al. **Arch Gen Psychiatry** 1990 Jun; 47(6):534–8
Comparison of depressant actions of orphenadrine and diazepam on hypertonic skeletal muscle activity. Williamson HE. **Arch Int Pharmacodyn Ther** 1989 Sep–Oct; 301:112–21
Handling–habituation prevents the effects of diazepam and alprazolam on brain serotonin levels in rats. Boix F, et al. **Behav Brain Res** 1990 Jan 22;36(3):209–15
Diazepam–induced impairment of a go–no go successive discrimination. Cole SO. **Behav Neural Biol** 1990 May; 53(3):371–7
Diazepam–stress interactions in the rat: effects on autoanalgesia and a plus–maze model of anxiety. Taukulis HK, et al. **Behav Neural Biol** 1990 Mar;53(2):205–16
State–dependent fear extinction with two benzodiazepine tranquilizers. Bouton ME, et al. **Behav Neurosci** 1990 Feb; 104(1):44–55
Diazepam's impact on self–stimulation but not stimulation–escape suggests hedonic modulation. Carden SE, et al. **Behav Neurosci** 1990 Feb;104(1):56–61
Diazepam modulation of stress–induced analgesia depends on the type of analgesia. Maier SF. **Behav Neurosci** 1990 Apr;104(2):339–47
Ceftriaxone binding to human serum albumin. Indirect displacement by probenecid and diazepam. McNamara PJ, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1247–53
Diazepam induces abnormal mitosis in the early Drosophila embryo. Callaini G, et al. **Biol Cell** 1989;67(3):313–20
Growth hormone response to intravenous diazepam and placebo in 82 healthy men. Monteiro MG, et al. **Biol Psychiatry** 1990 Apr 1;27(7):702–10
Pharmacokinetics of the acetylcholinesterase oxime reactivator, HI–6, in rhesus monkeys (Macaca mulatta): effect of atropine, diazepam, and methoxyflurane anesthesia. Clement JG, et al. **Biopharm Drug Dispos** 1990 Apr;11(3):227–32
Chronic diazepam treatment in rats causes long–lasting changes in central [3H]–5–hydroxytryptamine and [14C]–gamma–aminobutyric acid release. Hitchcott PK, et al. **Br J Pharmacol** 1990 Jan;99(1):11–2
Influences of external Ca2+ on the GABA–induced chloride current and the efficacy of diazepam in internally perfused frog sensory neurons. Akaike N, et al. **Brain Res** 1989 Dec 18;504(2):293–6
Regionally specific alterations in the low–affinity GABAA receptor following perinatal exposure to diazepam. Gruen RJ, et al. **Brain Res** 1990 Apr 23;514(1):151–4
Early developmental exposure to benzodiazepine ligands alters brain 31P–NMR spectra in young adult rats. Miranda R, et al. **Brain Res** 1990 Jan 1;506(1):85–92
Dramatic increase in nigral t–[35S]butylbicyclophosphorothionate binding sites elicited by the degeneration of the striato–nigral GABAergic pathway: reversal by diazepam. Sanna E, et al. **Brain Res** 1989 Oct 30;501(1):144–9
Ethanol–diazepam interactions on delayed match–to–sample performance in baboons. Wayner MJ, et al. **Brain Res Bull** 1989 Oct–Nov;23(4–5):333–8
Modification of amygdaloid kindling by diazepam in juvenile rats. Albertson TE, et al. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):249–52
GABA–stimulated chloride uptake and enhancement by diazepam in synaptoneurosomes from rat brain during prenatal and postnatal development. Kellogg CK, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):87–95
Suppression of x–ray induced transformation by Valium and aspirin in mouse C3H10T1/2 cells. Radner BS, et al. **Cancer Lett** 1990 May 15;51(1):49–57
Delay of behavioral estrus in hamsters and phenobarbital. Alleva JJ. **Chronobiologia** 1989 Oct–Dec;16(4):373–81
Bupivacaine acute toxicity protection by diazepam in mice. Bruguerolle B, et al. **Clin Exp Pharmacol Physiol** 1988 Jul; 15(7):563–4
Relationship between the dose–response effects of diazepam and clobazam on electroencephalographic parameters and on kindled amygdaloid seizure activity in rats. Harris QL, et al. **Clin Exp Pharmacol Physiol** 1988 Oct;15(10):753–64
Chronic diazepam treatment induces an increase in peripheral benzodiazepine binding sites. Weizman R, et al. **Clin Neuropharmacol** 1989 Aug;12(4):346–51
Halothane–sparing effect of benzodiazepines in ponies. Matthews NS, et al. **Cornell Vet** 1990 Jul;80(3):259–65
Influence of diazepam on regenerating adrenal cortex in Wistar rats. Zieleniewski J, et al. **Cytobios** 1990; 61(245):85–8
Cerebral blood flow velocity assessed by Doppler technique after intravenous application of diazepam in very low birth weight infants. Jorch G, et al. **Dev Pharmacol Ther** 1989; 14(2):102–7
The effect of procaine hydrochloride and diazepam, separately or in combination, on cortico–generalized kindled seizures. Racine R, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):204–12
Chronic handling modifies the anxiolytic effect of diazepam in the elevated plus–maze. Brett RR, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):135–8
Behavioural changes in the offspring of rats exposed to diazepam during gestation. Cagiano R, et al. **Eur J Pharmacol** 1990 Feb 20;177(1–2):67–74
Long–term diazepam treatment produces changes in cholecystokinin receptor binding in rat brain. Harro J, et al. **Eur J Pharmacol** 1990 May 3;180(1):77–83
Stress activation of limbic and cortical dopamine release is prevented by ICS 205–930 but not by diazepam. Imperato A, et al. **Eur J Pharmacol** 1990 Jan 10;175(2):211–4
Anxiolytics and stress–induced behavioural and cardiac responses: a study of diazepam and ipsapirone (TVX Q 7821). Korte SM, et al. **Eur J Pharmacol** 1990 Apr 25; 179(3):393–401
In vivo presynaptic modulation of serotonergic neurotransmission in the rat hippocampus by diazepam. Lista A, et al. **Eur J Pharmacol** 1989 Nov 21; 171(2–3):229–31
Diazepam–insensitive [3H]Ro 15–4513 binding in intact cultured cerebellar granule cells. Malminiemi O, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):53–60
Diazepam and Ro 15–1788 increase absence epilepsy in WAG/Rij rats chronically exposed to diazepam. Peeters BW, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):111–4
Stress increases noradrenaline release in the rat frontal cortex: prevention by diazepam. Rossetti ZL, et al. **Eur J Pharmacol** 1990 Feb 6;176(2):229–31
Modification of evoked hippocampal dentate inhibition by diazepam and three antagonists in urethane–anesthetized rats. Albertson TE, et al. **Exp Neurol** 1989 Nov; 106(2):142–9
Interaction of cholecystokinin and diazepam: effects on brain monoamines. Rybarczyk MC, et al. **Fundam Clin Pharmacol** 1990;4(2):245–53
Involvement of GABAA receptor sites in diazepam hypothermia. Zarrindast MR, et al. **Gen Pharmacol** 1989; 20(6):855–9
Diazepam inhibits phagocytosis and killing exerted by polymorphonuclear cells and monocytes from healthy donors. In vitro studies. Covelli V, et al. **Immunopharmacol Immunotoxicol** 1989;11(4):701–14
Investigation of influence of diazepam, valproate, cyproheptadine and cortisol on the rewarding ventral tegmental self–stimulation behaviour. Ramana SV, et al. **Indian J Physiol Pharmacol** 1989 Jul–Sep;33(3):179–85
Diazepam does not improve the mechanical performance of rat cardiac papillary muscle exposed to chloroquine in vitro. Riou B, et al. **Intensive Care Med** 1989;15(6):390–5
Subjective feelings of anxiety in young men after ethanol and diazepam infusions. Monteiro MG, et al. **J Clin Psychiatry** 1990 Jan;51(1):12–6
Effects of d–amphetamine, diazepam, and pentobarbital on the schedule–controlled pecking and locomotor activity of pigeons. Bordi F, et al. **J Exp Anal Behav** 1990 Jan; 53(1):87–102
Is the behavioural effect of diazepam in rats unique to negative secondary stimuli? Enquist M, et al. **J Neural Transm Gen Sect** 1990;81(2):147–52
Use of inhibitors of gamma–aminobutyric acid (GABA) transaminase for the estimation of GABA turnover in various brain regions of rats: a reevaluation of aminooxyacetic acid. Löscher W, et al. **J Neurochem** 1989 Dec;53(6):1737–50
Diazepam sensitivity of the binding of an imidazobenzodiazepine, [3H]Ro 15–4513, in cerebellar membranes from two rat lines developed for high and low alcohol sensitivity. Uusi–Oukari M, et al. **J Neurochem** 1990 Jun;54(6):1980–7
Diazepam potentiates the corticoidogenic response of bovine adrenal fasciculata cells to dibutyryl cyclic AMP. Yanagibashi K, et al. **Jpn J Pharmacol** 1989 Nov; 51(3):347–55
Tolerance to diazepam and methyl–beta–carboline–3–carboxylate measured in substantia nigra of benzodiazepine tolerant rats. Rosenberg HC, et al. **Life Sci** 1990;46(7):519–25
Anxiogenic–like action of caerulein, a CCK–8 receptor agonist, in the mouse: influence of acute and subchronic diazepam treatment. Harro J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan–Feb; 341(1–2):62–7
Relationship of GABAa receptor heterogeneity to regional differences in drug response. Gallager DW, et al. **Neurochem Res** 1990 Feb;15(2):113–8 (38 ref.)
Benzodiazepine receptor autoradiography in corpus striatum of rat after large frontal cortex lesions and chronic treatment with diazepam. Moratalla R, et al. **Neuropharmacology** 1989 Sep;28(9):893–900
Buspirone and diazepam: comparison of subjective, psychomotor and biological effects. Boulenger JP, et al. **Neuropsychobiology** 1989;22(2):83–9
Diazepam enhances bicuculline–induced increase of t–[35S]butylbicyclophosphorothionate binding in unwashed membrane preparations from rat cerebral cortex. Concas A, et al. **Neurosci Lett** 1990 Apr 20;112(1):87–91
Effect of diazepam on electroacupuncture–induced changes in regional gamma–aminobutyric acid of the rat central nervous system. Chakrabarti S, et al. **Neurosci Res** 1989 Oct;7(1):24–32
The effects of ethanol and diazepam on reactions to predatory odors. Blanchard RJ, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):775–80
Diazepam and discriminative motor control: acute, chronic and withdrawal effects. Culberson JW, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):419–27
Discontinuation of diazepam and sensitivity to a shock signal: fear conditioning prior to drug treatment. Davidson TL. **Pharmacol Biochem Behav** 1990 Jul;36(3):691–4
Pharmacological manipulation of anxiety and male rat sexual behavior. Fernández–Guasti A, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):263–7
Perinatal diazepam exposure: alterations in exploratory behavior and mesolimbic dopamine turnover. Gruen RJ, et al. **Pharmacol Biochem Behav** 1990 May;36(1):169–75
Monologue speech: effects of d–amphetamine, secobarbital and diazepam. Higgins ST, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):609–18
The long–term effects of diazepam and pentylenetetrazol on the potentiated startle response. Hijzen TH, et al. **Pharmacol Biochem Behav** 1990 May;36(1):35–8
Blockade by diazepam of conditioned fear–induced activation of rat mesoprefrontal dopamine neurons. Ida Y, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):477–9
Diazepam sensitizes mice to FG 7142 and reduces muscimol–stimulated 36Cl– flux. Lewin E, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):465–8
Involvement of the "peripheral" benzodiazepine receptor type (omega 3) in the tolerance to the electroencephalographic effects of benzodiazepines in rats: comparison of diazepam and clonazepam. Massotti M, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):933–6
Enhancing effects of Ro 15–1788 on straw–climbing behavior as measured with the straw–suspension method: reversal by diazepam. Nishimura H, et al. **Pharmacol Biochem Behav** 1990 May;36(1):183–6
Restraint stress–induced changes in saccharin preference: the

effect of antidepressive treatment and diazepam. Płaźnik A, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):755–9

Methyl beta-carboline-3-carboxylate enhances performance in a multiple-trial learning task in mice. Raffalli-Sebille MJ, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):281–4

Interactions of diazepam and pentobarbital with RO 15-4513 on intracranial self-stimulation discrimination behavior in rats. Schaefer GJ, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):23–7

Multiple behavioral effects of diazepam in rhesus monkeys. Schulze GE, et al. **Pharmacol Biochem Behav** 1989 Sep; 34(1):29–35

Alprazolam but not diazepam protects hamsters with heart disease from the medical consequences of stress. Tapp WN, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):633–6

Therapeutic and hypothermic properties of diazepam altered by a diazepam-chlorpromazine association. Taukulis HK, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):1–6

Latency to enter a mirrored chamber: a novel behavioral assay for anxiolytic agents. Toubas PL, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):121–6

Context-dependent cocaine sensitization: differential effect of haloperidol on development versus expression. Weiss SR, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):655–61

Actions and interactions of psychotropic drugs on human performance and mood: single doses of ORG 3770, amitriptyline, and diazepam. Mattila M, et al. **Pharmacol Toxicol** 1989 Aug;65(2):81–8

Diazepam attenuates morphine antinociception test-dependently in mice. Rosland JH, et al. **Pharmacol Toxicol** 1990 May;66(5):382–6

Preference for alprazolam as opposed to diazepam in benzodiazepine-dependent psychiatric inpatients. Apelt S, et al. **Pharmacopsychiatry** 1990 Mar;23(2):70–5

Effect of ethanol and diazepam given to pregnant rats on the behavior and catecholamine content in the brain of offspring. Felińska W, et al. **Pol J Pharmacol Pharm** 1989 May-Jun;41(3):223–5

The long-term effects of diazepam, lorazepam, and buspirone on behavioral suppression by a shock signal. Davidson TL. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):223–36

Behavioral neurobiology of inverse agonist FG 7142 induced anxiety syndrome in rats. Shanbhogue R, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):249–60

Reduced behavioral variability in extinction: effects of chronic treatment with the benzodiazepine, diazepam or with ethanol. Beck CH, et al. **Psychopharmacology (Berl)** 1990;100(3):323–7

Diazepam changes risk assessment in an anxiety/defense test battery. Blanchard DC, et al. **Psychopharmacology (Berl)** 1990;101(4):511–8

A comparison of calcium antagonists and diazepam in reducing ethanol withdrawal tremors. Bone GH, et al. **Psychopharmacology (Berl)** 1989;99(3):386–8

Effect of diazepam on behaviour and associated changes in ascorbate concentration in rat brain areas: striatum, n. accumbens and hippocampus. Boutelle MG, et al. **Psychopharmacology (Berl)** 1990;100(2):230–6

Effects of acute administration of diazepam and d-amphetamine on aggressive and escape responding of normal male subjects. Cherek DR, et al. **Psychopharmacology (Berl)** 1990;100(2):173–81

A comparison of the effects of scopolamine and diazepam on acquisition and retention of inhibitory avoidance in mice. Decker MW, et al. **Psychopharmacology (Berl)** 1990; 100(4):515–21

Diazepam and decision making in the rat: negative evidence for reduced tolerance to reward delay. Ljungberg T. **Psychopharmacology (Berl)** 1990;102(1):117–21

Blockade of hoarding in rats by diazepam: an analysis of the anxiety and object value hypotheses of hoarding. McNamara RK, et al. **Psychopharmacology (Berl)** 1990; 101(2):214–21

Diazepam and triazolam self-administration in sedative abusers: concordance of subject ratings, performance and drug self-administration. Roache JD, et al. **Psychopharmacology (Berl)** 1989;99(3):309–15

Diazepam induces a dissociation between explicit and implicit memory. Danion JM, et al. **Psychopharmacology (Berlin)** 1989;99(2):238–43

Diazepam and delta-9-THC: contrasting effects on the discrimination of speech sounds in nonhuman primates. Hienz RD, et al. **Psychopharmacology (Berlin)** 1989; 99(2):261–9

Sedation for fibreoptic bronchoscopy: comparison of alfentanil with papaveretum and diazepam. Webb AR, et al. **Respir Med** 1989 May;83(3):213–7

Attenuating effects of diazepam on the electroretinogram of normal humans. Jaffe MJ, et al. **Retina** 1989;9(3):216–25

Diazepam treatment does not influence the debrisoquine or mephenytoin hydroxylation phenotyping tests. Spina E, et al. **Ther Drug Monit** 1989 Nov;11(6):721–3

[Sites of seizure discharges after intracerebroventricular injection of anisodamine and the antagonism by diazepam in rabbits] Peng JZ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):484–7 (Eng. Abstr.) **(Chi)**

[Influence of microinjection of bicuculline into ventrolateral medulla on the suppression of cardiac function induced by diazepam in rabbits] Fang ZB, et al. **Sheng Li Hsueh Pao** 1989 Aug;41(4):319–27 (Eng. Abstr.) **(Chi)**

[Effects of diazepam on the rat open field behavior and high K+ induced release of monoamine neurotransmitters from brain slices] Yang XM, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):5–10 (Eng. Abstr.) **(Chi)**

[The effect of RO15-1788 on the interaction between pancuronium and diazepam] Amaki Y, et al. **Masui** 1990 Jun;39(6):773–7 (Eng. Abstr.) **(Jpn)**

[Inhibition of neutrophil function by solvent of injectable sedatives—effects of propylene glycol, ethanol and benzyl alcohol] Morisaki H. **Masui** 1989 Dec;38(12):1588–96 (Eng. Abstr.) **(Jpn)**

[Droperidol, seduxen, fentanyl: a study of immune reactions in vitro] Gadalov VP, et al. **Anesteziol Reanimatol** 1989 Jul-Aug;(4):18–21 (Eng. Abstr.) **(Rus)**

[Relations between anxiolytic effects of diazepam and changes in the EEG spectral power] Bogdanov NN, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):199–202 (Eng. Abstr.) **(Rus)**

[Effect of seduxen and aminazin on the interaction of the cerebral hemispheres in man] Egorov AIu. **Fiziol Cheloveka** 1989 May-Jun;15(3):128–34 **(Rus)**

[Thresholds of the electrical excitability of the pulp in various groups of teeth and their changes under the influence of analgin, amidopyrine and diazepam] Moroz BT, et al. **Stomatologiia (Mosk)** 1989 Sep-Oct;68(5):30–2 (Eng. Abstr.) **(Rus)**

[Differences in the effect of diazepam on realized and non-realized conditioned emotional reactions] Kostandov EA, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):103–8 (Eng. Abstr.) **(Rus)**

[Changes in the correlations of the different indices of the entire behavior of dogs under the influence of seduxen] D'iakova SD, et al. **Zh Vyssh Nerv Deiat** 1990 Mar-Apr; 40(2):273–82 (Eng. Abstr.) **(Rus)**

[Effect of a change in the effectiveness of a benzodiazepine-GABA-ionophore complex blockade on the reproduction of an amnesic memory trace in mice after preliminary diazepam administration] Il'iuchenok RIu, et al. **Zh Vyssh Nerv Deiat** 1989 May-Jun;39(3):499–505 (Eng. Abstr.) **(Rus)**

[Effect of intravenous anesthetic premedication using diazepam and fentanyl on the arterial oxygen saturation. A pulse-oximetric study] Castillo J, et al. **Rev Esp Anestesiol Reanim** 1990 May-Jun;37(3):142–5 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Animal model of anxiety: effect of diazepam in the rats with cholinergic supersensitivity and reduced turnover-rate of brain norepinephrine. Golda V, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):297–9

The immunomodulators levamisole, muramyl dipeptide and adamantylamide dipeptide antagonize the antianxiety effect of diazepam. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):111–3

The behavioural effects of benzodiazepine receptor ligands in mice are inhibited by adamantylamide dipeptide. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):293–4

Does sodium valproate increase clinical effects of diazepam? Double blind study. Vinař O, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):106–7

Panic attacks during MR imaging: treatment with i.v. diazepam. Avrahami E. **AJNR** 1990 Jul-Aug;11(4):833–5

Evaluation of the effect of diazepam on spasticity. Cocchiarella A, et al. **Arch Phys Med Rehabil** 1967 Aug; 48(8):393–6

Preliminary evidence of benzodiazepine subsensitivity in panic disorder. Roy-Byrne PP, et al. **Biol Psychiatry** 1989 Nov;26(7):744–8

Magnesium sulphate versus diazepam in the management of eclampsia: a randomized controlled trial. Crowther C. **Br J Obstet Gynaecol** 1990 Feb;97(2):110–7

Is diazepam an antidepressant? [letter; comment] **Br J Psychiatry** 1990 Feb;156:279 Comment on: Br J Psychiatry 1989 Oct;155:483–9.

Comparison of diazepam and buspirone [letter; comment] Oswald I. **Br J Psychiatry** 1989 Dec;155:866 Comment on: Br J Psychiatry 1989 Apr;154:529–34.

Is diazepam an antidepressant? [letter] Tiller J, et al. **Br J Psychiatry** 1990 Jul;157:149

Is diazepam an antidepressant? [see comments] Tiller JW, et al. **Br J Psychiatry** 1989 Oct;155:483–9 Comment in: Br J Psychiatry 1990 Feb;156:279.

A simple simulated public speaking test for evaluating anxiolytic drugs. Guimarães FS, et al. **Braz J Med Biol Res** 1989;22(9):1083–9

Differential response to aminergic stimuli and biological behavior of growth hormone secreting pituitary adenomas. Fanghanel G, et al. **Can J Neurol Sci** 1990 Feb;17(1):78–82

Evaluation of buspirone as an antianxiety agent: buspirone and diazepam versus placebo. Pecknold JC, et al. **Can J Psychiatry** 1989 Nov;34(8):766–71

Diazepam as adjuvant therapy in childhood tetanus. 477 patients with tetanus in Baroda. Phatak AT, et al. **Clin Pediatr (Phila)** 1970 Oct;9(10):573–6

Intention to treat febrile convulsions with rectal diazepam, valproate or phenobarbitone. McKinlay I, et al. **Dev Med Child Neurol** 1989 Oct;31(5):617–25

Effectiveness of certain drugs in acute malathion intoxication in rats. Husain K, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):271–5

Comparison of midazolam and diazepam by the intramuscular route for the control of seizures in a mouse model of status epilepticus. Raines A, et al. **Epilepsia** 1990 May-Jun; 31(3):313–7

Atropine and/or diazepam therapy protects against soman-induced neural and cardiac pathology. McDonough JH Jr, et al. **Fundam Appl Toxicol** 1989 Aug;13(2):256–76

Anxiety neurosis in general practice. A double-blind comparative study of diazepam and clovoxamine, a novel inhibitor of noradrenaline and serotonin reuptake. Jesinger DK, et al. **Int Clin Psychopharmacol** 1989 Oct;4(4):301–11

Treatment- and task-induced changes in interhemispheric EEG. Schwarz-Ottersbach E, et al. **Int J Neurosci** 1989 Jul;47(1-2):141–8

Differential effects of agents enhancing purinergic transmission upon the antielectroshock efficacy of carbamazepine, diphenylhydantoin, diazepam, phenobarbital, and valproate in mice. Czuczwar SJ, et al. **J Neural Transm Gen Sect** 1990;81(2):153–66

Double-blind, randomized trial of diazepam versus placebo for prevention of recurrence of febrile seizures. Autret E, et al. **J Pediatr** 1990 Sep;117(3):490–4

On the use of diazepam and pro-diazepam (2-benzoyl-4-chloro-N-methyl-N-lysylglycin anilide), as adjunct antidotes in the treatment of organophosphorus intoxication in the guinea-pig. Karlsson B, et al. **J Pharm Pharmacol** 1990 Apr;42(4):247–51

Psychological performance in anxious patients treated with diazepam. Zimmermann-Tansella C, et al. **Prog Neuropsychopharmacol** 1979;3(4):361–8

A 10-year follow-up of patients treated for dental fear. Hakeberg M, et al. **Scand J Dent Res** 1990 Feb;98(1):53–9

[Inhibitory effects of gamma-aminobutyric acid and diazepam on ventricular arrhythmias induced by hypothalamic electric stimulation] Wang Y, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Mar;10(2):147–50 (Eng. Abstr.) **(Chi)**

[Control of the side effects of ketamine: chlordemethyldiazepam vs diazepam in pre-anesthesia] D'Eramo C, et al. **Minerva Anestesiol** 1989 Oct; 55(10):413–7 (Eng. Abstr.) **(Ita)**

[Muscular rigidity caused by alfentanil: prevention] Venuti FS, et al. **Minerva Anestesiol** 1989 Jun;55(6):259–64 (Eng. Abstr.) **(Ita)**

[Intro- and extraversion in patients with neuroses as factors differentiating the effect of diazepam on psychomotor function] Borys B. **Psychiatr Pol** 1989 May-Jun;23(3):184–9 (Eng. Abstr.) **(Pol)**

[Effect of diazepam on cognitive and psychomotor functions in patients with neuroses in relation to various anxiety levels] Borys B. **Psychiatr Pol** 1988 Nov-Dec;22(6):438–43 (Eng. Abstr.) **(Pol)**

[Diazepam (Relanium)—current views on its action with special reference to developmental age] Brus R, et al. **Wiad Lek** 1990 Apr 15;43(8):336–42 (81 ref.) (Eng. Abstr.) **(Pol)**

[The effect of the functional status of the CNS in the postresuscitation period on restoration of the neurologic status in dogs following systemic circulatory arrest] Kirsanova AK. **Anesteziol Reanimatol** 1989 Sep-Oct; (5):65–9 (Eng. Abstr.) **(Rus)**

TOXICITY

Potentiation of ifosfamide toxicity by chlordiazepoxide, diazepam and oxazepam. Furusawa S, et al. **Chem Pharm Bull (Tokyo)** 1989 Dec;37(12):3420–2

Physical and behavioral development in rats after late prenatal exposure to diazepam. Lall SB, et al. **Indian J Physiol Pharmacol** 1990 Jan;34(1):17–22

Diazepam effects on the fetus. Schlumpf M, et al. **Neurotoxicology** 1989 Fall;10(3):501–16 (50 ref.)

Behavioural changes in offspring of rats exposed to diazepam during gestation. De Salvia MA, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:27–8

DIAZINON see under **INSECTICIDES, ORGANOTHIOPHOSPHATE**

DIAZOACETYLGLYCINE AMIDE see under **AZO COMPOUNDS**

DIAZOMETHANE

ANALOGS & DERIVATIVES

The use of benzyloxycarbonyl[125I]iodotyrosylalanyldiazomethane as a probe for active cysteine proteinases in human tissues. Mason RW, et al. **Biochem J** 1989 Nov 1;263(3):945–9

Synthesis and activity of a novel, irreversible inhibitor of cathepsin B. Cullen BM, et al. **Biochem Soc Trans** 1990 Apr;18(2):315–6

DIAZONIUM COMPOUNDS

Structure of a novel, macrocyclic Schiff base. Bharadwaj PK, et al. **Acta Crystallogr C** 1988 Apr 15;44 (Pt 4):763–5

(Z,Z)-1,1'-(1,6-hexanediyl)bis(2-phenyldiazene) 2,2'-dioxide: a bis(azoxy) compound. Williams DE, et al. **Acta Crystallogr C** 1988 Mar 15;44 (Pt 3):486–9

Rapid relaxation of single frog skeletal muscle fibres

following laser flash photolysis of the caged calcium chelator, diazo-2. Mulligan IP, et al. **FEBS Lett** 1989 Sep 11;255(1):196-200

Characterization of products formed by the reaction of 14C-sulphamethazinediazonium tetrafluoroborate with natural products. Paulson GD, et al. **Xenobiotica** 1990 Jan; 20(1):81-9

IMMUNOLOGY

Occupational asthma and specific IgE to a diazonium salt intermediate used in the polymer industry. Luczynska CM, et al. **J Allergy Clin Immunol** 1990 Jun;85(6):1076-82

METABOLISM

Identification of a novel amino acid alpha-tyrosine 93 within the cholinergic ligands-binding sites of the acetylcholine receptor by photoaffinity labeling. Additional evidence for a three-loop model of the cholinergic ligands-binding sites. Galzi JL, et al. **J Biol Chem** 1990 Jun 25;265(18):10430-7

PHARMACOLOGY

Interaction of PtCl4(Fast Black)2 with hyperthermia. Teicher BA, et al. **Cancer Res** 1989 Nov 15;49(22):6208-13

[Interconnection of the composition, physico-chemical characteristics of lipids and viscosity of the nuclear membrane after administration of diazan (1,2-bis-diazoacetylethane) in vivo] Mal'tseva EL, et al. **Biofizika** 1989 Jul-Aug;34(4):642-6 (Eng. Abstr.) **(Rus)**

DIAZOOXONORLEUCINE see under **AZO COMPOUNDS**

DIAZOXIDE

Relationship between thirst and diazoxide-induced hypotension in rats. Evered MD. **Am J Physiol** 1990 Aug; 259(2 Pt 2):R362-70

ADMINISTRATION & DOSAGE

Antineoplastic efficacy of melphalan and N-(2-chloroethyl)-N-nitrosocarbamoyl-omega-lysine, in combination with diazoxide or insulin in autochthonous mammary carcinoma of the Sprague-Dawley rat. Klenner T, et al. **J Cancer Res Clin Oncol** 1990;116(1):45-50

ADVERSE EFFECTS

Complications of diazoxide treatment in persistent neonatal hyperinsulinism. Abu-Osba YK, et al. **Arch Dis Child** 1989 Oct;64(10):1496-500

Hypertrichosis induced by diazoxide in idiopathic hypoglycemia of infancy [letter] Rousseau C, et al. **Dermatologica** 1989;179(4):221

PHARMACOLOGY

Some effects of the hypotensive drug diazoxide on the cardiovascular system. Nayler WG, et al. **Am Heart J** 1968 Feb;75(2):223-32

Dual effects of diazoxide on ATP-K+ currents recorded from an insulin-secreting cell line. Kozlowski RZ, et al. **Br J Pharmacol** 1989 Aug;97(4):1039-50

The action of diazoxide and minoxidil sulphate on rat blood vessels: a comparison with cromakalim. Newgreen DT, et al. **Br J Pharmacol** 1990 Jul;100(3):605-13

Comparative study of the effects of cromakalim (BRL 34915) and diazoxide on membrane potential, [Ca2+]i and ATP-sensitive potassium currents in insulin-secreting cells. Dunne MJ, et al. **J Membr Biol** 1990 Mar;114(1):53-60

Relaxation response to pinacidil and diazoxide in the mouse isolated distal colon. Lebrun P, et al. **Pharmacology** 1990; 40(1):21-6

THERAPEUTIC USE

Long-term oral diazoxide therapy for pulmonary vascular obstructive disease associated with congenital heart defects. Rao PS. **Am Heart J** 1990 Jun;119(6):1317-21

Leucine-sensitive hypoglycaemia treated with diazoxide. Bower BD, et al. **Arch Dis Child** 1967 Aug;42(224):410-5

DIBEKACIN see under **KANAMYCIN**

DIBENZAZEPINES

Clozapine. **Hosp Community Psychiatry** 1990 Aug; 41(8):837-901

Mandatory monitoring for side effects. The "bundling" of clozapine. Salzman C. **N Engl J Med** 1990 Sep 20; 323(12):827-9

Clozapine. Scientific update meeting. Montreux, Switzerland. October 31-November 1, 1988. Proceedings. **Psychopharmacology (Berl)** 1989;99 Suppl:S1-125

ADMINISTRATION & DOSAGE

An unsavory concoction [editorial] Zellmer WA. **Am J Hosp Pharm** 1990 Apr;47(4):783

[Tricyclic antidepressants and therapeutic monitoring. An experience with trimipramine] Forzy G, et al. **Ann Pharm Fr** 1989;47(5):276-82 (Eng. Abstr.) **(Fre)**

[The anti-arrhythmia effect and hemodynamic effects of Bonnecor in intravenous administration] Volkmann H, et al. **Z Gesamte Inn Med** 1989 Dec 1;44(23):707-11 (Eng. Abstr.) **(Ger)**

[Treatment of drug-resistant depression by intravenous administration of antidepressants] Kielholz P. **Zh Nevropatol Psikhiatr** 1990;90(4):53-6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Weight gain associated with clozapine. Cohen S, et al. **Am J Psychiatry** 1990 Apr;147(4):503-4

Clozapine and seizures. Haller E, et al. **Am J Psychiatry** 1990 Aug;147(8):1069-71

Rapid cycling following antidepressant in an adolescent [letter] Ghadirian AM, et al. **Biol Psychiatry** 1990 May 15;27(10):1184

Lofepramine and motor neuropathy. Hewitt JA, et al. **BMJ** 1989 Nov 11;299(6709):1223-4

Lofepramine-induced hyponatraemia [letter] Wylie KR, et al. **Br J Psychiatry** 1989 Mar;154:419-20

Comparison of chronic administration of haloperidol and the atypical neuroleptics, clozapine and raclopride, in an animal model of tardive dyskinesia. See RE, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):175-86

FDA's position on the clozaril patient management system. Peck CC. **Hosp Community Psychiatry** 1990 Aug; 41(8):876-7

Notes from a state mental health directors' meeting on clozapine. Salzman C. **Hosp Community Psychiatry** 1990 Aug;41(8):838-9, 842

Triad of hyperthermia, increased REM sleep, and cataplexy during clozapine treatment? [letter] Blum A. **J Clin Psychiatry** 1990 Jun;51(6):259-60

Trimipramine and dopamine receptor blockade [letter] Golden RN, et al. **J Clin Psychiatry** 1989 Oct;50(10):392-3

Avoidance of metoclopramide for the treatment of clozapine-induced nausea [letter; comment] Jenkins M, et al. **J Clin Psychiatry** 1990 May;51(5):210 Comment on: J Clin Psychiatry 1989 Sep;50(9):329-38.

Development of the Clozaril Patient Management System. Bastani B, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S122-5

Clozapine: neuroleptic-induced EPS and tardive dyskinesia. Casey DE. **Psychopharmacology (Berl)** 1989;99 Suppl:S47-53 (51 ref.)

Drug-induced agranulocytosis: review of possible mechanisms, and prospects for clozapine studies. Claas FH. **Psychopharmacology (Berl)** 1989;99 Suppl:S113-7 (42 ref.)

Side effects of clozapine. Gaertner HJ, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S97-100

Adverse effects of clozapine. Grohmann R, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S101-4

Leponex--associated granulocytopenia: a review of the situation. Krupp P, et al. **Psychopharmacology (Berl)** 1989; 99 Suppl:S118-21 (13 ref.)

Clozapine pharmacology and tardive dyskinesia. Lieberman J, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S54-9

Tolerability of long term clozapine treatment. Schmauss M, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S105-8

[Neuroleptic malignant syndrome in catatonic schizophrenia with respiratory insufficiency--an interdisciplinary problem] Koberstein B, et al. **Med Klin** 1990 Mar;85 Suppl 1:129-32 **(Ger)**

[Myasthenic syndrome induced by clozapine (letter)] Jiménez MD, et al. **Rev Clin Esp** 1990 Jan;186(1):42-3 **(Spa)**

ANALOGS & DERIVATIVES

High-performance liquid chromatographic method for a clozapine analogue, CGS 13429, and its N-oxide and desmethyl metabolites. Chovan JP, et al. **J Chromatogr** 1989 Sep 29;494:413-9

ANALYSIS

[UV-spectrophotometry in drug control. 47. Drug substances with chromophores and auxochromes in cyclic and tricyclic systems (benzodiazepine, dibenzoazepine and dibenzodiazepine)] Kráčmar J, et al. **Pharmazie** 1990 Jun; 45(6):411-3 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

Antagonism of the hypothermic effect of clozapine in mice by centrally-active alpha 2-adrenergic antagonists and alpha 1-adrenergic agonists. Menon MK, et al. **Psychopharmacology (Berl)** 1990;101(1):67-72

BLOOD

Rapid and sensitive determination of clozapine in human plasma using high-performance liquid chromatography and amperometric detection. Humpel C, et al. **J Chromatogr** 1989 Jun 30;491(1):235-9

Determination of lofepramine and desipramine using high-performance liquid chromatography and electrochemical detection. Virgili P, et al. **J Chromatogr** 1989 Nov 10;496(1):228-33

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma. Wilhelm D, et al. **J Chromatogr** 1990 Jan 26;525(1):218-24

[Plasma levels of metapramine and its 3 major metabolites in patients with depression. Results and preliminary interpretations] Bougerol T, et al. **Encephale** 1990 Jan-Feb; 16(1):35-40 (Eng. Abstr.) **(Fre)**

CHEMICAL SYNTHESIS

New tetracyclic guanidine derivatives with H1-antihistaminic properties. Chemistry of epinastine. Walther G, et al. **Arzneimittelforschung** 1990 Apr; 40(4):440-6

Tricyclic heteroaromatic systems. [1]benzopyranopyrrol-4-ones and [1]benzopyrano-1,2,3-triazol-4-ones as benzodiazepine receptor ligands. Synthesis and structure-activity relationships. Colotta V, et al. **J Med Chem** 1990 Sep; 33(9):2646-51

Sterically hindered 5,11-dicarbo analogues of clozapine as potential chiral antipsychotic agents. Rupard JH, et al. **J Med Chem** 1989 Oct;32(10):2261-8

HISTORY

The history of clozapine. Hippius H. **Psychopharmacology (Berl)** 1989;99 Suppl:S3-5

ISOLATION & PURIFICATION

Preparative high-performance liquid chromatographic method for the 2-hydroxy metabolite of carpipramine, excreted by isolated perfused liver. Schmitt P, et al. **J Chromatogr** 1989 Jul 21;491(2):495-500

METABOLISM

Metabolism of metapramine in vitro by chemical model systems and rat liver microsomes. Barret R, et al. **Arzneimittelforschung** 1989 Dec;39(12):1574-6

Metabolism of fluperlapine by cytochrome P450-dependent and flavin-dependent monooxygenases in continuous cultures of rat and human cells. Fischer V, et al. **Biochem Pharmacol** 1990 Apr 15;39(8):1327-33

Preparative high-performance liquid chromatographic method for the 2-hydroxy metabolite of carpipramine, excreted by isolated perfused liver. Schmitt P, et al. **J Chromatogr** 1989 Jul 21;491(2):495-500

[Drugs from the classes of tricyclic antidepressives and antiepileptics, nitrosatable under simulated human gastric conditions] Ziebarth D, et al. **Arch Geschwulstforsch** 1989; 59(4):257-63 (Eng. Abstr.) **(Ger)**

[Microbial mutagenicity testing of N-nitrosoiminostilbene and N-nitrosoiminodibenzyl, the nitrosation products of the drugs carbamazepine and trimipramine hydrochloride] Ziebarth D, et al. **Arch Geschwulstforsch** 1989;59(6):393-7 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Chronopharmacokinetic and bioequivalence studies of two formulations of trimipramine after oral administration in man. Bougerolle AM, et al. **Eur J Drug Metab Pharmacokinet** 1989 Apr-Jun; 14(2):139-44

Pharmacokinetics of metapramine and its demethylated metabolites in plasma and brain of mice. Bougerolle AM, et al. **Fundam Clin Pharmacol** 1989;3(5):515-25

Pharmacokinetics of lofepramine and amitriptyline in elderly healthy subjects. Ghose K, et al. **Int Clin Psychopharmacol** 1989 Jul;4(3):201-15

Single- vs multiple-dose pharmacokinetics of clozapine in psychiatric patients. Choc MG, et al. **Pharm Res** 1990 Apr; 7(4):347-51

Clozapine--pharmacokinetic investigations and biochemical effects in man. Ackenheil M. **Psychopharmacology (Berl)** 1989;99 Suppl:S32-7 (26 ref.)

Dose-related plasma levels of clozapine: influence of smoking behaviour, sex and age. Haring C, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S38-40

[Pharmacokinetic study of dibenzazepines in humans] Sztaniszláv D, et al. **Acta Pharm Hung** 1989;59 Suppl 1:1-5 **(Hun)**

[The pharmacokinetics and metabolism of bonnecor in rats] Klemm V, et al. **Farmakol Toksikol** 1990 May-Jun; 53(3):43-4 (Eng. Abstr.) **(Rus)**

[A comparative study of the pharmacokinetics and pharmacodynamics of bonnecor] Rodionov AP, et al. **Farmakol Toksikol** 1990 May-Jun;53(3):40-3 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Melperone and clozapine: neuroendocrine effects of atypical neuroleptic drugs. Meltzer HY, et al. **Acta Psychiatr Scand Suppl** 1989;352:24-9

Behavioural indices of the interaction of clozapine with D1 and D2 dopamine receptors. Murray AM, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:814P

Effects of clozapine and other neuroleptics on binding of [3H]-Q ICS 205-930 to central 5-HT3 recognition sites. Watling KJ, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:813P

Effects of antipsychotic drugs on 5-HT2 receptors in the medial prefrontal cortex: microiontophoretic studies. Ashby CR Jr, et al. **Brain Res** 1990 Jan 8;506(2):346-8

Differential effects of chronic treatment with haloperidol and clozapine on the level of preprosomatostatin mRNA in the striatum, nucleus accumbens, and frontal cortex of the rat. Salin P, et al. **Cell Mol Neurobiol** 1990 Mar;10(1):127-44

Action of trimipramine on sleep and pituitary hormone secretion. Wiegand M, et al. **Drugs** 1989;38 Suppl 1:35-42; discussion 49-50

Modulation of sleep by trimipramine in man. Nicholson AN,

et al. **Eur J Clin Pharmacol** 1989;37(2):145–50
The effect of chronic clozapine and haloperidol on basal dopamine release and metabolism in rat striatum and nucleus accumbens studied by in vivo microdialysis. Ichikawa J, et al. **Eur J Pharmacol** 1990 Feb 13; 176(3):371–4
The effects of clozapine on rat mast cells are different from those of benzodiazepines. Sano T, et al. **Gen Pharmacol** 1990;21(4):559–61
Effects of lofepramine on human sleep: a pilot study. Hopes H. **Int Clin Psychopharmacol** 1989 Oct;4(4):295–300
MK–801–induced stereotypy and its antagonism by neuroleptic drugs. Tiedtke PI, et al.
J Neural Transm Gen Sect 1990;81(3):173–82
One year of continuous treatment with haloperidol or clozapine fails to induce a hypersensitive response of caudate putamen neurons to dopamine D1 and D2 receptor agonists. Jiang LH, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):1198–205
The effect of clozapine on prolactin secretion at the level of the lactotroph. Lamberts SW, et al. **Life Sci** 1990; 46(14):1013–9
Magnesium fluxes in ventricular fibrillation and defibrillation in untreated and dibenzepine HCl pretreated cats. Stendig–Lindberg G, et al. **Magnes Res** 1988 Jul; 1(1–2):45–50
Effects of antidepressant drugs on inositol phospholipid hydrolysis in rat cerebral cortical slices. Dyck LE, et al. **Neurochem Res** 1989 Nov;14(11):1047–52
Increased release of dopamine in vivo by BMY–14802: contrasting pattern to clozapine. Rao TS, et al.
Neuropharmacology 1990 May;29(5):503–6
Effects of trimipramine on sleep EEG, penile tumescence and nocturnal hormonal secretion. A long–term study in 3 normal controls. Steiger A, et al. **Neuropsychobiology** 1989;21(2):71–5
Acute treatment with clozapine blocks D1 dopamine receptor binding in discrete brain areas of the male rat. Fuxe K, et al. **Neurosci Lett** 1989 Nov 20;106(1–2):169–74
Anxiolytic potential of sulpiride, clozapine and derivatives in the open–field test. Bruhwyler J, et al.
Pharmacol Biochem Behav 1990 May;36(1):57–61
Differential effects of haloperidol and clozapine on the reinforcing efficacy of food reward in an alleyway reacquisition paradigm. Wiley JL, et al.
Pharmacol Biochem Behav 1990 Jul;36(3):569–73
Effect of trimipramine, an atypical tricyclic antidepressant, on the activities of various enzymes involved in the metabolism of biogenic amines. Yu PH, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1990; 14(3):409–16
The effects of clozapine and fluperlapine on the in vivo release and metabolism of dopamine in the striatum and in the prefrontal cortex of freely moving rats. Imperato A, et al. **Psychopharmacol Bull** 1989;25(3):383–9
Biochemical and behavioural properties of clozapine. Coward DM, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S6–12 (52 ref.)
Basic biology of clozapine: electrophysiological and neuroendocrinological studies. Gudelsky GA, et al.
Psychopharmacology (Berl) 1989;99 Suppl:S13–7 (38 ref.)
Clinical studies on the mechanism of action of clozapine: the dopamine–serotonin hypothesis of schizophrenia. Meltzer HY. **Psychopharmacology (Berl)** 1989;99 Suppl:S18–27 (98 ref.)
Effects of haloperidol and clozapine on preprotachykinin–A messenger RNA, tachykinin tissue levels, release and neurokinin–1 receptors in the striato–nigral system. Humpel C, et al. **Synapse** 1990;6(1):1–9
[Evaluation of the central anticholinergic activity of antidepressants. Comparison of two experimental methods] Dufour P, et al. **Ann Pharm Fr** 1989;47(3):135–41 (Eng. Abstr.) **(Fre)**
[Microbial mutagenicity testing of N–nitrosoiminostilbene and N–nitrosoiminodibenzyl, the nitrosation products of the drugs carbamazepine and trimipramine hydrochloride] Ziebarth D, et al. **Arch Geschwulstforsch** 1989;59(6):393–7 (Eng. Abstr.) **(Ger)**
[The relationship between the chemical structure and anti–arrhythmia action of a number of omega–aminoacyl–3–carbalcoxyaminodibenzazepines] Gritsenko AN, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):30–2 (Eng. Abstr.) **(Rus)**
[The pharmacodynamics and pharmacokinetics of bonnecor in patients with different disorders of the heart rhythm] Lozinskii LG, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):61–3 (Eng. Abstr.) **(Rus)**
[The pharmacodynamics of the new anti–arrhythmia preparation bonnecor in patients with extrasystoles] Ol'binskaia LI, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):63–4 (Eng. Abstr.) **(Rus)**
[Pharmacological research on bonnecor and its metabolites] Poppe H, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):46–8 (Eng. Abstr.) **(Rus)**
[The relationship between the physicochemical and pharmacokinetic parameters and the anti–arrhythmia activity of bonnecor and its metabolites] Rodionov AP, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):50–1 (Eng. Abstr.) **(Rus)**
[The psychotropic properties of bonnecor and ethacizine] Voronina TA, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):52–4 (Eng. Abstr.) **(Rus)**

POISONING

Lofepramine overdosage. Reid F, et al.
Pharmacopsychiatry 1990 Jan;23 Suppl 1:23–7 (9 ref.)
[Findings in chronic use and acute overdose of Leponex] Sticht G, et al. **Beitr Gerichtl Med** 1989;47:81–6 (Eng. Abstr.) **(Ger)**

SUPPLY & DISTRIBUTION

Rational approach to Clozaril distribution [letter]
Am Pharm 1990 Jun;NS30(6):7
Closed distribution of Clozaril begins despite protests from APhA. Martin S. **Am Pharm** 1990 Apr;NS30(4):15–6

THERAPEUTIC USE

Experience with the reduction of maintenance doses of clozapine and monitoring of its blood levels. Ceškova E, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):118–9
An atypical responder to clozapine [letter] Wood MJ, et al.
Am J Psychiatry 1990 Mar;147(3):369
Clozapine and electroconvulsive therapy [letter; comment] Fink M. **Arch Gen Psychiatry** 1990 Mar;47(3):290–1
Comment on: Arch Gen Psychiatry 1989 Jul;46(7):672.
Is clozapine response different in neuroleptic nonresponders vs partial responders? [letter] Osser DN, et al.
Arch Gen Psychiatry 1990 Feb;47(2):189–90
Lofepramine versus dothiepin in the treatment of depression in elderly patients. Fairbairn AF, et al. **Br J Clin Pract** 1989 Feb;43(2):55–60
Clozapine: an atypical antipsychotic agent. Ereshefsky L, et al. **Clin Pharm** 1989 Oct;8(10):691–709 (120 ref.)
A review of clozapine: an antipsychotic for treatment–resistant schizophrenia. Stephens P.
Compr Psychiatry 1990 Jul–Aug;31(4):315–26 (82 ref.)
Partial proceedings of the symposium on trimipramine in depression and sleep disorders. Munich, 14 August 1988. **Drugs** 1989;38 Suppl 1:1–50
Comparative trial of trimipramine versus doxepin in depressed hospitalised patients. Assalian P, et al. **Drugs** 1989;38 Suppl 1:32–4; discussion 49–50
Clinical originality and new biology of trimipramine. Gastpar M. **Drugs** 1989;38 Suppl 1:43–8; discussion 49–50 (28 ref.)
A review of trimipramine. 30 years of clinical use. Lapierre YD. **Drugs** 1989;38 Suppl 1:17–24; discussion 49–50 (31 ref.)
Sleep polygraphic effects of trimipramine in depressed patients. Preliminary report. Mouret J, et al. **Drugs** 1989; 38 Suppl 1:14–6; discussion 49–50
Trimipramine, anxiety, depression and sleep. Pecknold JC, et al. **Drugs** 1989;38 Suppl 1:25–31; discussion 49–50 (42 ref.)
Depression, circadian rhythms and trimipramine. Rüther E. **Drugs** 1989;38 Suppl 1:1–3; discussion 49–50 (11 ref.)
FDA approves clozapine for treatment of schizophrenia; careful monitoring required [news]
Hosp Community Psychiatry 1989 Dec;40(12):1310
Family response to improvement by a relative with schizophrenia. Conley RR, et al.
Hosp Community Psychiatry 1990 Aug;41(8):898–901
Ethical issues in selecting patients for treatment with clozapine: a commentary. Eichelman B, et al.
Hosp Community Psychiatry 1990 Aug;41(8):880–2
Clozapine: benefits and risks. Green AI, et al.
Hosp Community Psychiatry 1990 Apr;41(4):379–80 (11 ref.)
A two–year clinical and economic follow–up of patients on clozapine. Honigfeld G, et al.
Hosp Community Psychiatry 1990 Aug;41(8):882–5
Clinical notes on clozapine. Mallott D, et al.
Hosp Community Psychiatry 1990 Aug;41(8):890–1
Effects of six months of clozapine treatment on the quality of life of chronic schizophrenic patients. Meltzer HY, et al. **Hosp Community Psychiatry** 1990 Aug;41(8):892–7
The European experience with use of clozapine. Naber D, et al. **Hosp Community Psychiatry** 1990 Aug;41(8):886–90
Ethical and clinical considerations in selecting patients who will receive clozapine. Pelonero AL, et al.
Hosp Community Psychiatry 1990 Aug;41(8):878–80
Access to care: clozapine in the public sector. Reid WH.
Hosp Community Psychiatry 1990 Aug;41(8):870–4 (20 ref.)
Cost–effectiveness of clozapine for treatment–resistant schizophrenic patients. Revicki DA, et al.
Hosp Community Psychiatry 1990 Aug;41(8):850–4
Estimating clozapine's cost to the nation. Terkelsen KG, et al. **Hosp Community Psychiatry** 1990 Aug;41(8):863–9
Clozapine. Comments by a Sandoz official. Westlin WF.
Hosp Community Psychiatry 1990 Aug;41(8):874–6
Clozapine for refractory schizophrenia: an open study of 14 patients treated up to 2 years. Mattes JA.
J Clin Psychiatry 1989 Oct;50(10):389–91
Clozapine: a new drug for schizophrenia. Barrett N, et al.
J Psychosoc Nurs Ment Health Serv 1990 Feb;28(2):24–8
From the Food and Drug Administration. Nightingale SL.
JAMA 1990 Jan 12;263(2):202
Clozapine. **Lancet** 1989 Dec 16;2(8677):1430–2 (27 ref.)
Clozapine for schizophrenia. **Med Lett Drugs Ther** 1990 Jan 12;32(809):3–4
Clozapine–responsive tremor in Parkinson's disease. Friedman JH, et al. **Mov Disord** 1990;5(3):225–9
Clozapine for psychosis in Parkinson's disease. Pfeiffer RF, et al. **Mov Disord** 1990;5(3):239–42
Clozapine in idiopathic Parkinson's disease [letter; comment] Bernardi F, et al. **Neurology** 1990 Jul;40(7):1151–2
Comment on: Neurology 1989 Sep;39(9):1219–21.
Clozapine in the treatment of parkinsonian patients with dopaminomimetic psychosis. Wolters EC, et al.
Neurology 1990 May;40(5):832–4
Schizophrenia drug approved [news] **Ohio Med** 1990 Feb; 86(2):97
Investigations of morning and laboratory dream recall and content in depressive patients during baseline conditions and under antidepressive treatment with trimipramine. Riemann D, et al. **Psychiatr J Univ Ott** 1990 Jun;15(2):93–9
Response to clozapine in chronic psychotic patients. Owen RR Jr, et al. **Psychopharmacol Bull** 1989;25(2):253–6
Long–term experience with clozapine in Denmark: research and clinical practice. Gerlach J, et al.
Psychopharmacology (Berl) 1989;99 Suppl:S92–6 (14 ref.)
Clinical experience with clozapine in Germany. Helmchen H. **Psychopharmacology (Berl)** 1989;99 Suppl:S80–3 (34 ref.)
Predictors of response to clozapine therapy. Honigfeld G, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S64–7
Clozapine in the treatment of 121 out–patients. Leppig M, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S77–9
A retrospective study on the long–term efficacy of clozapine in 96 schizophrenic and schizoaffective patients during a 13–year period. Lindström LH.
Psychopharmacology (Berl) 1989;99 Suppl:S84–6
A prospective study of clozapine in treatment–resistant schizophrenic patients. I. Preliminary report. Meltzer HY, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S68–72
Efficacy and adverse effects of clozapine in the treatment of schizophrenia and tardive dyskinesia—a retrospective study of 387 patients. Naber D, et al.
Psychopharmacology (Berl) 1989;99 Suppl:S73–6
Clozapine in China: a review and preview of US/PRC collaboration. Potter WZ, et al.
Psychopharmacology (Berl) 1989;99 Suppl:S87–91
Effects on sleep: a double–blind study comparing trimipramine to imipramine in depressed insomniac patients. Ware JC, et al. **Sleep** 1989 Dec;12(6):537–49
Clozapine—a new and different neuroleptic [clinical conference] Haller E, et al. **West J Med** 1990 Jul; 153(1):62–4
[The anti–koro effect of a tricyclic antidepressant] Turnier L, et al. **Can J Psychiatry** 1990 May;35(4):331–3 (Eng. Abstr.) **(Fre)**
[Carpipramine (letter)] des Lauriers A, et al. **Encephale** 1990 Jan–Feb;16(1):53 **(Fre)**
[Clozapine and resistant schizophrenia] Pere JJ, et al.
Encephale 1990 Mar–Apr;16(2):143–5 (Eng. Abstr.) **(Fre)**
[Bonnecor—a new anti–arrhythmia preparation] Berdiaev Slu, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):33–6 (Eng. Abstr.) **(Rus)**
[The effect of bonnecor on cardiac hemodynamics, blood supply and function in experimental myocardial ischemia] Chichkanov GG, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):38–40 (Eng. Abstr.) **(Rus)**
[The antifibrillatory properties of bonnecor] Grigor'eva EK, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):36–7 (Eng. Abstr.) **(Rus)**
[The anti–arrhythmia properties of bonnecor metabolites] Grigor'eva EK, et al. **Farmakol Toksikol** 1990 May–Jun; 53(3):48–50 (Eng. Abstr.) **(Rus)**
[A first trial in the clinical study of bonnecor] Mironova MI, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):65–7 (Eng. Abstr.) **(Rus)**
[The anti–arrhythmia activity and effect on the heart conduction system of the new anti–arrhythmia preparation bonnecor] Sokolov SF, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):57–60 (Eng. Abstr.) **(Rus)**
[Effect of Bonnecor on clinical manifestations, bioelectric cardiac activity and cardiac hemodynamics in patients with acute myocardial infarction and chronic ischemic heart disease] Ol'binskaia LI, et al. **Klin Med (Mosk)** 1990 Feb; 68(2):44–6 (Eng. Abstr.) **(Rus)**
[Use of bonnecor in ischemic heart disease] Gorshkov VA, et al. **Sov Med** 1990;(6):72–4 **(Rus)**
[EEG factor analysis in the treatment with antidepressants] Bochkarev VK, et al. **Zh Nevropatol Psikhiatr** 1989; 89(10):120–5 (Eng. Abstr.) **(Rus)**

TOXICITY

[An experimental study of the safety of the preparation bonnecor in trials on dogs] Kovalenko LP, et al.
Farmakol Toksikol 1990 May–Jun;53(3):54–7 (Eng. Abstr.) **(Rus)**

URINE

[The metabolism of bonnecor] Rodionov AP, et al.
Farmakol Toksikol 1990 May–Jun;53(3):44–6 (Eng. Abstr.) **(Rus)**

DIBENZEPIN see under **DIBENZAZEPINES**

DIBENZOCYCLOHEPTENES

ADMINISTRATION & DOSAGE

Biperiden and piroheptine do not affect the serum level of zotepine, a new antipsychotic drug. Otani K, et al.
Br J Psychiatry 1990 Jul;157:128–30
The self–administration of MK–801 can depend upon

drug-reinforcement history, and its discriminative stimulus properties are phencyclidine-like in rhesus monkeys. Beardsley PM, et al. **J Pharmacol Exp Ther** 1990 Mar; 252(3):953-9

[A case of amineptine dependence] Pérez de los Cobos JC, et al. **Encephale** 1990 Jan-Feb;16(1):41-2 (Eng. Abstr.) **(Fre)**

[The mode of induction of amineptine dependence. 8 cases (letter)] Vandel S, et al. **Therapie** 1990 Jan-Feb;45(1):51 **(Fre)**

ADVERSE EFFECTS

[Acneiform eruption induced by amineptin (Survector)] Martín-Ortega E, et al. **Med Cutan Ibero Lat Am** 1989; 17(6):414-6 (Eng. Abstr.) **(Spa)**

ANTAGONISTS & INHIBITORS

D-serine antagonized phencyclidine- and MK-801-induced stereotyped behavior and ataxia. Contreras PC. **Neuropharmacology** 1990 Mar;29(3):291-3

CHEMICAL SYNTHESIS

Synthesis of 11C-labeled (+-)-5-methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imin e [(+-)-[11C]MK801] Kiesewetter DO, et al. **Int J Rad Appl Instrum [A]** 1990; 41(2):139-42

Synthesis and structure-activity relationship of C5-substituted analogues of (+-)-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine [(+-)-desmethyl-MK801]: ligands for the NMDA receptor-coupled phencyclidine binding site. Monn JA, et al. **J Med Chem** 1990 Mar;33(3):1069-76

Structural and conformational aspects of the binding of aryl-alkyl amines to the phencyclidine binding site. Thurkauf A, et al. **NIDA Res Monogr** 1989;95:51-6

METABOLISM

Autoradiographic evidence that NMDA receptor-coupled channels are located postsynaptically and not presynaptically in the perforant path-dentate granule cell system of the rat hippocampal formation. Bekenstein JW, et al. **Brain Res** 1990 Apr 30;514(2):334-42

Distribution of [3H]MK801 binding in the normal aged human hippocampus. Johnson M, et al. **Brain Res** 1989 Oct 9;499(1):184-7

Glycine reverses 7-chlorokynurenic acid-induced inhibition of [3H]MK-801 binding. Sircar R, et al. **Brain Res** 1989 Dec 18;504(2):325-7

Labeling of NMDA receptor channels by [3H]MK-801 in brain synaptic membranes treated with Triton X-100. Yoneda Y, et al. **Brain Res** 1989 Oct 16;499(2):305-14

Memantine displaces [3H]MK-801 at therapeutic concentrations in postmortem human frontal cortex. Kornhuber J, et al. **Eur J Pharmacol** 1989 Aug 3; 166(3):589-90

Arcaine is a competitive antagonist of the polyamine site on the NMDA receptor. Reynolds IJ. **Eur J Pharmacol** 1990 Feb 27;177(3):215-6

A novel photoaffinity ligand for the phencyclidine site of the N-methyl-D-aspartate receptor labels a Mr 120,000 polypeptide. Sonders MS, et al. **J Biol Chem** 1990 Apr 25;265(12):6776-81

(+)-[3H]MK-801 binding sites in postmortem human brain. Quarum ML, et al. **J Neurochem** 1990 Apr;54(4):1163-8

Interaction of strychnine-insensitive glycine binding with MK-801 binding in brain synaptic membranes. Yoneda Y, et al. **J Neurochem** 1990 Jul;55(1):237-44

(+)-3-[123I]Iodo-MK-801: synthesis and characterization of binding to the N-methyl-D-aspartate receptor complex. Ransom RW, et al. **Life Sci** 1990;46(15):1103-10

Effects of polyamines on the binding of [3H]MK-801 to the N-methyl-D-aspartate receptor: pharmacological evidence for the existence of a polyamine recognition site. Williams K, et al. **Mol Pharmacol** 1989 Oct;36(4):575-81

Characterization of polyamines having agonist, antagonist, and inverse agonist effects at the polyamine recognition site of the NMDA receptor. Williams K, et al. **Neuron** 1990 Aug;5(2):199-208

Distribution of [3H]MK-801 binding in the turtle retina: an autoradiographical study. Cooper EJ, et al. **Neurosci Lett** 1990 May 4;112(2-3):127-32

Characterization of D-3,4-cyclopropylglutamates as N-methyl-D-aspartate receptor agonists. Monahan JB, et al. **Neurosci Lett** 1990 May 4;112(2-3):328-32

Role of lipid solubility in the interaction of drugs with the N-methyl-D-aspartate receptor. Reynolds IJ, et al. **Synapse** 1990;5(1):71-6

[Characterization of the binding of [3H]-MK 801 to glutamatergic NMDA receptors in normal cerebral cortex and in Alzheimer's disease] Holemans S, et al. **Acta Neurol Belg** 1989 May-Oct;89(3-4):314 **(Fre)**

PHARMACOKINETICS

Pharmacokinetics of amineptine after single-dose, repeated treatment and study of the at-risk populations. Riché C, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S32-40

PHARMACOLOGY

Comparison of the neuroprotective effects of the N-methyl-D-aspartate antagonist MK-801 and the opiate-receptor antagonist nalmefene in experimental spinal cord ischemia. Yum SW, et al. **Arch Neurol** 1990 Mar; 47(3):277-81

Possible abuse potential of the NMDA antagonist MK-801. Corbett D. **Behav Brain Res** 1989 Sep 1;34(3):239-46

MK-801 reduced cerebral ischemic injury by inducing hypothermia. Corbett D, et al. **Brain Res** 1990 Apr 30; 514(2):300-4

Long-term D1-dopamine receptor sensitization in neonatal 6-OHDA-lesioned rats is blocked by an NMDA antagonist. Criswell HE, et al. **Brain Res** 1990 Apr 2; 512(2):284-90

The NMDA antagonist, MK-801, suppresses long-term potentiation, kindling, and kindling-induced potentiation in the perforant path of the unanesthetized rat. Gilbert ME, et al. **Brain Res** 1990 Jun 11;519(1-2):89-96

Application of potassium chloride to the brain surface induces the c-fos proto-oncogene: reversal by MK-801. Herrera DG, et al. **Brain Res** 1990 Feb 26;510(1):166-70

Effects of unilateral intrahippocampal injection of MK-801 upon local cerebral glucose utilisation in conscious rats. Kurumaji A, et al. **Brain Res** 1990 Jun 4;518(1-2):342-6

Effects of NMDA antagonists, MK-801 and CPP, upon local cerebral glucose use. Kurumaji A, et al. **Brain Res** 1989 Sep 4;496(1-2):268-84

The effects of N-methyl-D-aspartate receptor blockade with MK-801 upon the relationship between cerebral blood flow and glucose utilisation. Nehls DG, et al. **Brain Res** 1990 Mar 19;511(2):271-9

The effect of the excitatory amino acid receptor antagonist dizocilipine maleate (MK-801) on hemispheric cerebral blood flow and metabolism in dogs: modification by prior complete cerebral ischemia. Perkins WJ, et al. **Brain Res** 1989 Sep 25;498(1):34-44

Differential effects of chronic treatment with mianserin and protryptiline on rat brain cortical alpha 1-adrenoceptors. Sallés J, et al. **Brain Res** 1989 Oct 2;498(2):366-70

Evidence that NMDA receptors contribute to synaptic function in the guinea pig medial vestibular nucleus. Smith PF, et al. **Brain Res** 1990 Apr 9;513(1):149-51

Mode of blockade by MK-801 of N-methyl-D-aspartate-induced increase in intracellular Ca2+ in cultured mouse hippocampal neurons. Yuzaki M, et al. **Brain Res** 1990 May 28;517(1-2):51-6

MK-801 protects against seizures induced by the cholinesterase inhibitor soman. Braitman DJ, et al. **Brain Res Bull** 1989 Jul-Aug;23(1-2):145-8

MK801 prevents quinolinic acid-induced behavioral deficits and neurotoxicity in the striatum. Giordano M, et al. **Brain Res Bull** 1990 Mar;24(3):313-9

Sex differences in the inhibitory effects of the NMDA antagonist, MK-801, on morphine and stress-induced analgesia. Lipa SM, et al. **Brain Res Bull** 1990 Apr; 24(4):627-30

N-methyl-D-aspartate receptors influence neuronal survival in developing spinal cord cultures. Brenneman DE, et al. **Brain Res Dev Brain Res** 1990 Jan 1;51(1):63-8

NMDA receptor antagonists inhibit kindling epileptogenesis and seizure expression in developing rats. Trommer BL, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):248-52

The relationship of structural ischemic brain damage to neurobehavioural deficit: the effect of postischemic MK-801. Rod MR, et al. **Can J Psychol** 1990 Jun; 44(2):196-209

Interaction of amineptine with agents modifying dopaminergic transmission. Chagraoui A, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S19-31

Pharmacology of amineptine: synthesis and updating. Garattini S, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S13-8 (17 ref.)

NMDA receptor activation mediates the loss of GABAergic inhibition induced by recurrent seizures. Kapur J, et al. **Epilepsy Res** 1990 Mar;5(2):103-11

The neuroprotective actions of kynurenic acid and MK-801 in gerbils are synergistic and not related to hypothermia. Gill R, et al. **Eur J Pharmacol** 1990 Feb 6;176(2):143-9

Comparison of the behavioral and biochemical effects of the NMDA receptor antagonists, MK-801 and phencyclidine. Hiramatsu M, et al. **Eur J Pharmacol** 1989 Aug 3; 166(3):359-66

Differential effects of sigma and phencyclidine receptor ligands on learning. Jones KW, et al. **Eur J Pharmacol** 1990 Apr 10;179(1-2):97-102

The effect of MK-801 on the micturition reflex in anesthetized rats. Maggi CA, et al. **Eur J Pharmacol** 1990 May 31;181(1-2):105-9

MK-801 potently inhibits alcohol withdrawal seizures in rats. Morrisett RA, et al. **Eur J Pharmacol** 1990 Jan 25; 176(1):103-5

Chronic treatment with MK-801 increases the quinolinic acid-induced loss of D-1 dopamine receptors in rat striatum. Norman AB, et al. **Eur J Pharmacol** 1990 Feb 13;176(3):363-6

Effect of protriptyline on ventilatory responses to hypercapnia and asphyxia in normal subjects. Simonds AK, et al. **Eur Respir J** 1989 Sep;2(8):758-62

Ketamine and MK801 attenuate paired pulse inhibition in the olfactory bulb of the rat. Jacobson I, et al. **Exp Brain Res** 1990;80(2):409-14

Effects of NMDA receptor antagonists following spinal ischemia in the rabbit. Martinez-Arizala A, et al. **Exp Neurol** 1990 Jun;108(3):232-40

MK-801, an excitatory amino acid antagonist, does not improve neurologic outcome following cardiac arrest in cats. Fleischer JE, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):795-804

Effects of MK-801 upon local cerebral glucose utilisation in conscious rats and in rats anaesthetised with halothane. Kurumaji A, et al. **J Cereb Blood Flow Metab** 1989 Dec; 9(6):786-94

Regional neuroprotective effects of the NMDA receptor antagonist MK-801 (dizocilpine) in hypoglycemic brain damage. Papagapiou MP, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):270-6

Systematic studies on the effects of the NMDA receptor antagonist MK-801 on cerebral blood flow and responsivity, EEG, and blood-brain barrier following complete reversible cerebral ischemia. Stevens MK, et al. **J Cereb Blood Flow Metab** 1990 Jan;10(1):77-88

Influence of MK-801 on brain extracellular calcium and potassium activities in severe hypoglycemia. Zhang ET, et al. **J Cereb Blood Flow Metab** 1990 Jan;10(1):136-9

Structure and activity of hydrogenated derivatives of (+)-5-methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine (MK-801). Lyle TA, et al. **J Med Chem** 1990 Mar;33(3):1047-52

CGS-19755 and MK-801 selectively prevent rat striatal cholinergic and gabaergic neuronal degeneration induced by N-methyl-D-aspartate and ibotenate in vivo. Schoepp DD, et al. **J Neural Transm Gen Sect** 1989;78(3):183-93

MK-801-induced stereotypy and its antagonism by neuroleptic drugs. Tiedtke PI, et al. **J Neural Transm Gen Sect** 1990;81(3):173-82

Effect of noncompetitive blockade of N-methyl-D-aspartate receptors on the neurochemical sequelae of experimental brain injury. McIntosh TK, et al. **J Neurochem** 1990 Oct; 55(4):1170-9

Interactions of phencyclidine receptor agonist MK-801 with dopaminergic system: regional studies in the rat. Rao TS, et al. **J Neurochem** 1990 Apr;54(4):1157-62

Hypothermia but not the N-methyl-D-aspartate antagonist, MK-801, attenuates neuronal damage in gerbils subjected to transient global ischemia. Buchan A, et al. **J Neurosci** 1990 Jan;10(1):311-6

Protective effects of the glutamate antagonist MK-801 on pyrithiamine-induced lesions and amino acid changes in rat brain. Langlais PJ, et al. **J Neurosci** 1990 May; 10(5):1664-74

Effects of MK-801 on glutamate-induced swelling of astrocytes in primary cell culture. Chan PH, et al. **J Neurosci Res** 1990 Jan;25(1):87-93

Effects of the N-methyl-D-aspartate receptor blocker MK-801 on neurologic function after experimental brain injury. Mcintosh TK, et al. **J Neurotrauma** 1989 Winter; 6(4):247-59

Comparative electroencephalographic and behavioral effects of phencyclidine, (+)-SKF-10,047 and MK-801 in rats. Marquis KL, et al. **J Pharmacol Exp Ther** 1989 Dec; 251(3):1104-12

The anticonvulsant MK-801 interacts with peripheral and central nicotinic acetylcholine receptor ion channels. Ramoa AS, et al. **J Pharmacol Exp Ther** 1990 Jul; 254(1):71-82

The differential effects of post-session administration of amineptine and imipramine on memory processes in mice. de Angelis L. **Methods Find Exp Clin Pharmacol** 1990 Jan-Feb;12(1):23-7

Effect of a noncompetitive antagonist (MK-801) of NMDA receptors on convulsions and brain amino acid level in El mice. Sato K, et al. **Neurochem Res** 1989 Aug;14(8):741-4

Comparison of delayed administration of competitive and uncompetitive antagonists in preventing NMDA receptor-mediated neuronal death. Levy DI, et al. **Neurology** 1990 May;40(5):852-5

NMDA receptor antagonists disrupt the retinotectal topographic map. Cline HT, et al. **Neuron** 1989 Oct; 3(4):413-26

Effect of the NMDA antagonist MK-801 on MPTP-induced parkinsonism in the monkey. Crossman AR, et al. **Neuropharmacology** 1989 Nov;28(11):1271-3

Effects of phencyclidine and phencyclidine biologs on sensorimotor gating in the rat. Mansbach RS, et al. **Neuropsychopharmacology** 1989 Dec;2(4):299-308

Electrophysiological effects of selective sigma-receptor agonists, antagonists, and the selective phencyclidine receptor agonist MK-801 on midbrain dopamine neurons. Steinfels GF, et al. **Neuropsychopharmacology** 1989 Sep; 2(3):201-8

MK-801 induces c-fos protein in thalamic and neocortical neurons of rat brain. Dragunow M, et al. **Neurosci Lett** 1990 Mar 26;111(1-2):39-45

MK801 induces c-fos protein in thalamic and neocortical neurons of rat brain. Dragunow M, et al. **Neurosci Lett** 1990 May 31;113(2):144-50

MK-801, an antagonist of NMDA receptors, inhibits injury-induced c-fos protein accumulation in rat brain. Dragunow M, et al. **Neurosci Lett** 1990 Feb 5; 109(1-2):128-33

MK-801 blocks nicotinic depolarizations of guinea pig myenteric neurons. Galligan JJ, et al. **Neurosci Lett** 1990 Jan 1;108(1-2):105-9

D-CPP-ene (SDZ EAA 494), a potent and competitive N-methyl-D-aspartate (NMDA) antagonist: effect on

spontaneous activity and NMDA-induced depolarizations in the rat neocortical slice preparation, compared with other CPP derivatives and MK-801. Lowe DA, et al. **Neurosci Lett** 1990 Jun 8;113(3):315-21

Effects of N-methyl-D-aspartate (NMDA) antagonist MK-801 on breathing pattern in rats. Monteau R, et al. **Neurosci Lett** 1990 Feb 5;109(1-2):134-9

MK-801 ameliorates delayed amnesia, but potentiates acute amnesia induced by CO. Nabeshima T, et al. **Neurosci Lett** 1990 Jan 22;108(3):321-7

Effects of antagonists on N-methyl-D-aspartate response in acutely isolated nucleus tractus solitarii neurons of the rat. Nakagawa T, et al. **Neurosci Lett** 1990 May 31; 113(2):169-74

Kainate-induced functional deficits are not blocked by MK-801. Rogers BC, et al. **Neurosci Lett** 1990 Feb 16; 109(3):335-40

Selective N-methyl-D-aspartate (NMDA) antagonists increase gastric motility in the rat. Shinozaki H, et al. **Neurosci Lett** 1990 May 18;113(1):56-61

Behavioral evaluation of the anti-excitotoxic properties of MK-801: comparison with neurochemical measurements. Susel Z, et al. **Neurosci Lett** 1989 Sep 25;104(1-2):125-9

Induction of ornithine decarboxylase mRNA in cerebral cortex in response to kainate lesion of nucleus basalis: involvement of NMDA receptors. Wood H, et al. **Neurosci Lett** 1990 Mar 26;111(1-2):176-82

Acute excitotoxicity in chick retina caused by the unusual amino acids BOAA and BMAA: effects of MK-801 and kynurenate. Zeevalk GD, et al. **Neurosci Lett** 1989 Jul 31; 102(2-3):284-90

Experimental neoplastic spinal cord compression: effect of ketamine and MK-801 on edema and prostaglandins. Siegal T, et al. **Neurosurgery** 1990 Jun;26(6):963-6

MK-801 attenuates the methamphetamine induced decreased in tryptophan hydroxylase activity. Gibb JW, et al. **NIDA Res Monogr** 1989;95:511

Beagle puppy model of perinatal asphyxia: blockade of excitatory neurotransmitters. Ment LR, et al. **Pediatr Neurol** 1989 Sep-Oct;5(5):281-6

A novel NMDA antagonist, MK-801, impairs performance in a hippocampal-dependent spatial learning task. Butelman ER. **Pharmacol Biochem Behav** 1989 Sep;34(1):13-6

The effect of NMDA antagonists in the radial arm maze task with an interposed delay. Butelman ER. **Pharmacol Biochem Behav** 1990 Mar;35(3):533-6

Interfering with glutamatergic neurotransmission by means of NMDA antagonist administration discloses the locomotor stimulatory potential of other transmitter systems. Carlsson M, et al. **Pharmacol Biochem Behav** 1990 May;36(1):45-50

The noncompetitive N-methyl-D-aspartate antagonists, MK-801, phencyclidine and ketamine, increase the potency of general anesthetics. Daniell LC. **Pharmacol Biochem Behav** 1990 May;36(1):111-5

MK-801 and AP5 impair acquisition, but not retention, of the Morris milk maze. Heale V, et al. **Pharmacol Biochem Behav** 1990 May;36(1):145-9

The effect of the NMDA receptor antagonist, MK-801, on the course and outcome of kindling. Mintz M, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):815-21

Effects of the NMDA antagonists CPP and MK-801 on radial arm maze performance in rats. Ward L, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):785-90

The topography of MK-801-induced locomotor patterns in rats. Ford LM, et al. **Physiol Behav** 1989 Oct;46(4):755-8

Dizocilpine (MK-801), ketamine and phencyclidine: low doses affect brain field potentials in the freely moving rat in the same way as activation of dopaminergic transmission. Dimpfel W, et al. **Psychopharmacology (Berl)** 1990; 101(3):317-23

Stereospecific blockade of N-methyl-D-aspartate transmission by MK 801 prevents priming of SKF 38393-induced turning. Morelli M, et al. **Psychopharmacology (Berl)** 1990;101(2):287-8

Behavioral effects of MK-801 in the rat. Wozniak DF, et al. **Psychopharmacology (Berl)** 1990;101(1):47-56

Phencyclidine, dizocilpine, and cerebrocortical neurons [comment] Allen HL, et al. **Science** 1990 Jan 12; 247(4939):221 Comment on: Science 1989 Jun 16;244(4910):1360-2.

Effects of hypoxia-ischemia and MK-801 treatment on the binding of a phencyclidine analogue in the developing rat brain. Silverstein FS, et al. **Stroke** 1990 Feb;21(2):310-5

Excitatory amino acids and Parkinson's disease [letter; comment] Schmidt WJ, et al. **Trends Neurosci** 1990 Feb; 13(2):46-7 Comment on: Trends Neurosci 1989 Aug;12(8):285-6.

POISONING

Severe acne due to chronic amineptine overdose. Vexiau P, et al. **Arch Dermatol Res** 1990;282(2):103-7

THERAPEUTIC USE

Effect of excitatory amino acid receptor blocker MK-801 on overall, neurologic, and morphologic outcome after prolonged cardiac arrest in dogs. Sterz F, et al. **Anesthesiology** 1989 Dec;71(6):907-18

Effects of protriptyline on diurnal and nocturnal oxygenation in patients with chronic obstructive pulmonary disease. Séries F, et al. **Ann Intern Med** 1990 Oct 1;113(7):507-11

MK-801 prevents hippocampal neurodegeneration in neonatal hypoxic-ischemic rats. Ford LM, et al. **Arch Neurol** 1989 Oct;46(10):1090-6

Role of the excitotoxic mechanism in the development of neuronal damage following repeated brief cerebral ischemia in the gerbil: protective effects of MK-801 and pentobarbital. Kato H, et al. **Brain Res** 1990 May 14; 516(1):175-9

Excitatory amino acid antagonists protect mice against seizures induced by bicuculline. Turski WA, et al. **Brain Res** 1990 Apr 23;514(1):131-4

Amineptine and depression. An international experience. Istanbul, January 28, 1989. Proceedings. **Clin Neuropharmacol** 1989;12 Suppl 2:v-xii; S1-105

The efficacy of amineptine in the treatment of depressive patients with irritable bowel syndrome. Alevizos B, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S66-76

The beneficial effects of amineptine (Survector 100) in the treatment of depression: preliminary results of an Indian multicenter trial. Boral GC, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S51-7

Amineptine (Survector 100) in the treatment of depression in Brazil. Costa e Silva JA. **Clin Neuropharmacol** 1989;12 Suppl 2:S87-96

A multicenter Italian study of amineptine (Survector 100). Kemali D. **Clin Neuropharmacol** 1989;12 Suppl 2:S41-50

Depression in elderly people treated with amineptine (Survector 100): a synopsis. Marconi PL, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S97-105

A double-blind comparative study: amineptine (Survector 100) versus imipramine. Mendis N, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S58-65

Evaluation of the efficacy of amineptine in a population of 1,229 depressed patients: results of a multicenter study carried out by 135 general practitioners. Paes de Sousa M, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S77-86

Ketamine, phencyclidine, and MK-801 protect against kainic acid-induced seizure-related brain damage. Clifford DB, et al. **Epilepsia** 1990 Jul-Aug;31(4):382-90

NMDA receptor antagonists and limbic status epilepticus: a comparison with standard anticonvulsants. Bertram EH, et al. **Epilepsy Res** 1990 Apr;5(3):177-84

The effects of dizocilpine maleate (MK-801), an antagonist of the N-methyl-D-aspartate receptor, on neurologic recovery and histopathology following complete cerebral ischemia in primates. Lanier WL, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):252-61

Prophylaxis of steroid-induced psychiatric syndromes [letter] Sabet-Sharghi F, et al. **Psychosomatics** 1990 Winter; 31(1):113-4

Protriptyline treatment of sleep hypoxaemia in Duchenne muscular dystrophy. Smith PE, et al. **Thorax** 1989 Dec; 44(12):1002-5

DIBENZOTHIEPINS

PHARMACOKINETICS

Biperiden and piroheptine do not affect the serum level of zotepine, a new antipsychotic drug. Otani K, et al. **Br J Psychiatry** 1990 Jul;157:128-30

Pharmacokinetics and adverse effects of single doses of dothiepin in young and elderly subjects. Bareggi SR, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):163-70

PHARMACOLOGY

Levoprotiline--function regulator of food and satiety centres? Faltus F, et al. **Act Nerv Super (Praha)** 1989 Dec; 31(4):282-3

The effect of isofloxythepine in EEG. Hynek K, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):261

Modulation of renin by thromboxane: studies with thromboxane synthase inhibitor, receptor antagonists, and mimetic. Welch WJ, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F554-60

POISONING

Why do amitriptyline and dothiepin appear to be so dangerous in overdose? Montgomery SA, et al. **Acta Psychiatr Scand Suppl** 1989;354:47-53

THERAPEUTIC USE

Double blind comparison of alprazolam with dosulepine in endogenous depression. Celková E, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):290-1

Clinical predictors of schizophrenic patient response to neuroleptics. Kořínková V. **Act Nerv Super (Praha)** 1989 Jun;31(2):115-6

Isofloxythepine in an open study. Papežová H, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):121-2

Isofloxythepin in restless oligophrenic children. Zapletálek M, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):265

Antidepressant and cognitive behavior therapy for an AIDS patient [letter] Bhugra D, et al. **Am J Psychiatry** 1990 Feb; 147(2):256

Lofepramine versus dothiepin in the treatment of depression in elderly patients. Fairbairn AF, et al. **Br J Clin Pract** 1989 Feb;43(2):55-60

The treatment of mixed affective disorders in general practice: a comparison of trazodone and dothiepin. Moon CA, et al. **Curr Med Res Opin** 1990;12(1):34-42

A double-blind comparative study of fluoxetine and dothiepin in the treatment of depression in general practice. Corne SJ, et al. **Int Clin Psychopharmacol** 1989 Jul; 4(3):245-54

DIBENZOXAZEPINES

ADVERSE EFFECTS

Amoxapine-induced neuroleptic malignant syndrome [letter] [see comments] Washington C, et al. **DICP** 1989 Sep; 23(9):713 Comment in: DICP 1990 Jun;24(6):646.

Safety of amoxapine [letter; comment] Devarajan S. **Lancet** 1989 Dec 16;2(8677):1455 Comment on: Lancet 1989 Sep 30;2(8666):808.

METABOLISM

Aspirin acetylates the tricyclic antidepressant amoxapine spontaneously to N-acetylamoxapine in vitro and in vivo. Middleberg R, et al. **Xenobiotica** 1990 Feb;20(2):169-76

PHARMACOLOGY

Synthesis of dibenzodioxazocines and their effects on cholinesterases and muscarinic cholinergic receptors. Gaál J, et al. **Acta Biochim Biophys Hung** 1989;24(1-2):129-42

Structure-activity relationships of new muscarinergic dibenzodioxazocines. Kálmán A, et al. **Acta Biochim Biophys Hung** 1989;24(1-2):143-58

Possible involvement of the antiserotoninergic and antihistaminergic activity in the anticataleptogenic effect of EGYT-2509. István G, et al. **Acta Physiol Hung** 1990; 75 Suppl:119-20

A novel dibenzoxazepine derivative (BY-1949) increases regional cerebral blood flow. Sugawa M, et al. **Eur J Pharmacol** 1990 Mar 20;178(2):225-8

Effects of nitroxazepine on guinea-pig isolated detrusor and trigone muscles. Balani ND, et al. **Indian J Physiol Pharmacol** 1989 Jul-Sep;33(3):199-200

Interactions of apomorphine and a novel neuroleptic dibenzodioxazocine derivative, as evidenced by changes of somato-autonomic reflexes and spontaneous sympathetic activity in cats. Dóda M. **J Pharm Pharmacol** 1989 Aug; 41(8):549-54

Amoxapine inhibition of GABA-stimulated chloride conductance: investigations of potential sites of activity. Ikeda M, et al. **Life Sci** 1989;45(20):1903-10

EGYT-2509 a novel neuroleptic agent without extrapyramidal and endocrine side effects. Gacsályi I, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec;40(6):613-9

POISONING

Diagnostic pitfalls associated with amoxapine overdose: a case report. Miles MV, et al. **Am J Emerg Med** 1990 Jul; 8(4):335-7

Amoxapine overdose: recovery after severe metabolic acidosis (pH 6.69) and status epilepticus. Miller MT, et al. **Anaesth Intensive Care** 1990 May;18(2):246-8

THERAPEUTIC USE

Amoxapine versus amitriptyline combined with perphenazine in the treatment of psychotic depression. Anton RF Jr, et al. **Am J Psychiatry** 1990 Sep;147(9):1203-8

DIBENZOXEPINS

ANALYSIS

Physico-chemical properties and stability of trans-5-chloro-2-methyl-2,3,3a,12b-tetrahydro-1H-dibenz[2,3:6,7]oxepino[4,5-c]pyrrolidine maleate. Funke CW, et al. **Arzneimittelforschung** 1990 May;40(5):536-9

[Spectroscopic properties of the partial beta-agonist doxaminol (BM 10.188) and its metabolites] Neidlein R, et al. **Arch Pharm (Weinheim)** 1990 May;323(5):259-65 (Eng. Abstr.) **(Ger)**

METABOLISM

Biotransformation of trans-5-chloro-2-methyl-2,3,3a,12b-tetrahydro-1-H-dibenz[2,3:6,7]oxepin o [4,5-c]pyrrolidine maleate in rats. von dem Wildenberg HM, et al. **Arzneimittelforschung** 1990 May;40(5):540-4

On the formation of carbamate glucuronides. Delbressine LP, et al. **Xenobiotica** 1990 Jan;20(1):133-4

PHARMACOKINETICS

Pharmacokinetics of the partial beta-agonist doxaminol in dog. Neidlein R, et al. **Arzneimittelforschung** 1990 Jan; 40(1):27-31

Biotransformation of the partial beta-agonist doxaminol in dog. Neidlein R, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):130-6

PHARMACOLOGY

Behavioural pharmacology of trans-5-chloro-2-methyl-2,3,3a,12b-tetrahydro-1H-dibenz[2,3:6,7]oxepino-[4,5-c]pyrrolidine maleate, a compound interacting with dopaminergic and serotonergic

receptors. Broekkamp CL, et al. **Arzneimittelforschung** 1990 May;40(5):544–9
Neurochemical studies with the potential antipsychotic compound trans-5-Chloro-2-methyl-2,3,3a,12b-tetrahydro-1H-dibenz[2,3:6,7]oxepino[4,5-c]pyrrolidine maleate. De Boer T, et al. **Arzneimittelforschung** 1990 May;40(5):550–4
Actions of ORG 5222 as a novel psychotropic agent. Costall B, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):607–15

DIBROMODULCITOL see **MITOLACTOL**

1,2-DIBROMOETHANE see **ETHYLENE DIBROMIDE**

DIBROMOTHYMOQUINONE see under **QUINONES**

DIBUCAINE

Dibucaine interaction with phospholipid vesicles. A resonance energy-transfer study. Coutinho A, et al. **Eur J Biochem** 1990 Apr 30;189(2):387–93

ADMINISTRATION & DOSAGE

Effect of epinephrine on the duration of dibucaine (cinchocaine) spinal anesthesia. Beavis RE. **Anesth Analg** 1989 Dec;69(6):819–21

ADVERSE EFFECTS

Chemical, pharmaceutical and clinical standardization of the TRUE Test caine mix. Kreilgård B, et al. **Contact Dermatitis** 1989 Jul;21(1):23–7

METABOLISM

The use of monolayers for simple and quantitative analysis of lipid-drug interactions exemplified with dibucaine and substance P. Seelig A. **Cell Biol Int Rep** 1990 Apr; 14(4):369–80 (19 ref.)
Metabolism of dibucaine. II. Disposition and metabolism of dibucaine in rats. Igarashi K, et al. **J Pharmacobiodyn** 1989 Sep;12(9):523–9

PHARMACOKINETICS

Mechanism of penetration and of action of local anesthetics in Escherichia coli cells. Collura V, et al. **Biochim Biophys Acta** 1990 Sep 7;1027(3):238–44

PHARMACOLOGY

Inhibition of cytochrome oxidase by dibucaine. Stringer BK, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1077–81
Suppression of transferrin internalization in myogenic L6 cells by dibucaine. Hagiwara Y, et al. **Biochim Biophys Acta** 1990 Mar 9;1051(3):237–41
A comparative study of the effects of procaine, lidocaine, tetracaine and dibucaine on the functions and ultrastructure of isolated rat liver mitochondria. Tarba C, et al. **Biochim Biophys Acta** 1990 Aug 9;1019(1):19–28
Determination of serum cholinesterase activity and dibucaine numbers by an amperometric choline sensor. Palleschi G, et al. **Biosens Bioelectron** 1990;5(1):27–35
Modulation of the Ca2+, Mg2(+)-ATPase activity of synaptosomal plasma membrane by the local anesthetics dibucaine and lidocaine. Garcia-Martin E, et al. **J Neurochem** 1990 Apr;54(4):1238–46

DIBUTYL PHTHALATE see under **PHTHALIC ACIDS**

DIBUTYRYL ADENOSINE-3',5'-MONOPHOSPHATE see **DIBUTYRYL CYCLIC AMP**

DIBUTYRYL CYCLIC AMP

ADMINISTRATION & DOSAGE

Arterial infusion of combination therapy using dibutyryl adenosine 3',5'-monophosphate and mitomycin C for hepatocellular carcinoma occluding main portal vein: case studies. Ishii K, et al. **Angiology** 1989 Dec;40(12):1072–8

PHARMACOLOGY

Induction of glutathione S-transferase, placental type in T9 glioma cells by dibutyryladenosine 3',5'-cyclic monophosphate and modification of its expression by naturally occurring isothiocyanates. Hara A, et al. **Acta Neuropathol (Berl)** 1989;79(2):144–8
Expression of proto-oncogene products during drug-induced differentiation of a neuroblastoma cell line SK-N-DZ. Matsumoto M, et al. **Acta Neuropathol (Berl)** 1989; 79(2):217–21
Effects of N6,2'-O-dibutyryladenosine 3',5'-cyclic monophosphate, adenosine, and of oxotremorine and 3-isobutyl-1-methylxanthine on the electrically evoked [3H]acetylcholine secretion in the guinea-pig ileum myenteric plexus. Alberts P. **Acta Physiol Scand** 1989 Dec; 137(4):489–96
Dibutyryl cyclic AMP treatment of astrocytes in primary cultures as a substitute for normal morphogenic and 'functiogenic' transmitter signals. Hertz L. **Adv Exp Med Biol** 1990;265:227–43 (75 ref.)
Effects of histamine, granulocyte colony-stimulating factor and db-cAMP on the differentiation of HL-60 cells. Tasaka K, et al. **Agents Actions** 1990 Apr;30(1-2):240–2
Dibutyryl-cAMP blocks endotoxin-induced lung injury in rats. Chang SW, et al. **Am Rev Respir Dis** 1989 Dec; 140(6):1814–7
Functional and metabolic effects of bucladesine (dibutyryl cyclic AMP) in the working rat heart preparation: comparison with dopamine. Hashimoto H, et al. **Arch Int Pharmacodyn Ther** 1989 Sep-Oct;301:200–14
The dose dependent effect of cyclic AMP on ribonucleotide reductase in mitogen stimulated mononuclear cells. Albert D, et al. **Biochem Biophys Res Commun** 1990 Mar 16; 167(2):383–90
Agents affecting adenylate cyclase activity modulate the stimulatory action of 1,25-dihydroxyvitamin D3 on the production of osteocalcin by human bone cells. Evans DB, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):1076–85
IL1 induces proliferation and IL6 mRNA expression in a human astrocytoma cell line: positive and negative modulation by chorela toxin and cAMP. Kasahara T, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1242–8
cAMP activates Na+/H+ antiporter in murine macrophages. Kong SK, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):131–7
Multihormonal regulation of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene expression in primary cultures of rat hepatocytes. Kummel L, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):406–13
Inhibitory effect of cyclic AMP on phorbol ester-stimulated production of reactive oxygen metabolites in rat glomeruli. Miyanoshita A, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):519–25
Hormonal regulation of stability of glutamine synthetase mRNA in cultured 3T3-L1 adipocytes. Saini K, et al. **Biochem J** 1990 Apr 1;267(1):241–4
The induction of adipose conversion by bezafibrate in 3T3-L1 cells. Synergism with dibutyryl-cAMP. Brandes R, et al. **Biochim Biophys Acta** 1990 Sep 1;1054(2):219–24
Cyclic AMP calcium and the growth of mastocytoma cells. Lints T, et al. **Biochim Biophys Acta** 1989 Oct 9; 1013(3):287–93
The response of large and small luteal cells from the pregnant rat to substrates and secretagogues. Smith CJ, et al. **Biol Reprod** 1989 Dec;41(6):1123–32
Increased 5'-nucleotidase activity induced by dibutyryl cyclic AMP treatment of cultured glial cells. Amano S, et al. **Brain Res** 1990 Jan 8;506(2):254–8
Dibutyryl cyclic AMP-induced changes in neuron-astroglia interactions and fibronectin immunocytochemistry in dissociated rat cerebellar cultures. Gilad GM, et al. **Brain Res** 1990 Feb 5;508(2):215–24
Cyclic AMP-dependent expression of the heavy neurofilament (NF-H) polypeptide in differentiating neuroblastoma cells. Breen KC, et al. **Brain Res Mol Brain Res** 1990 Feb;7(2):161–5
Dibutyryl cyclic AMP induces vimentin and GFAP expression in cultured medulloblastoma cells. Maria BL, et al. **Can J Neurol Sci** 1990 Feb;17(1):15–20
Dibutyryl cAMP-induced increases in triacylglycerol lipase activity in developing L8 myotube cultures. Palmer WK, et al. **Can J Physiol Pharmacol** 1990 Jun;68(6):689–93
Differentiation of U-937 histiocytic lymphoma cells towards mature neutrophilic granulocytes by dibutyryl cyclic adenosine-3',5'-monophosphate. Laskin DL, et al. **Cancer Res** 1990 Jan 1;50(1):20–5
Induction of cells with phenotypic features of neuronal cells by treatment with dibutyryl cyclic adenosine 3',5'-monophosphate in a human parotid gland adenocarcinoma cell line in culture. Nagamine S, et al. **Cancer Res** 1990 Oct 1;50(19):6396–404
Use of biocarrier beads and flow cytometry for single-cell studies of fibronectin gene regulation in dibutyryl cyclic AMP reverse transformed CHO-K1 cells. Sterner JM, et al. **Cell Biophys** 1989 Dec;15(3):159–71
Modulation of ornithine decarboxylase gene transcript levels by differentiation inducers in human promyelocytic leukemia HL60 cells. Rius C, et al. **Cell Differ Dev** 1989 Oct;28(1):39–46
Modification of the indolamine content in neuroblastoma x glioma hybrid NG108-15 cells upon induced differentiation. Ghahary A, et al. **Cell Mol Neurobiol** 1989 Sep;9(3):343–55
Purification of a serum factor which reverses dibutyryl cAMP induced differentiation. Grabham PW, et al. **Cell Signal** 1989;1(3):269–81
Evidence for the functional coupling of cyclic AMP in MA-10 mouse Leydig tumour cells. Stocco DM, et al. **Cell Signal** 1990;2(2):161–70
Effects of chronic infusion of dibutyryl c-AMP or adenosine on luteal function in sheep. Weems CW, et al. **Endocrinol Jpn** 1989 Jun;36(3):439–47
Difference in sensitivity to alkaline phosphatase treatment between rat reticulocyte membranes in which beta-adrenoceptor desensitization was induced by isoproterenol, dibutyryl cAMP and phorbol ester. Yamashita A, et al. **Eur J Pharmacol** 1990 Apr 25; 188(4-5):229–34
Close relationship between modulation of serum-induced stimulation of DNA synthesis and changes in gap-junctional intercellular communication in quiescent 3T3-L1 cells caused by cyclic AMP and the tumor-promoting phorbol ester TPA. Shiba Y, et al. **Exp Cell Res** 1989 Dec;185(2):535–40
Modulation of interleukin-1 beta production by cyclic AMP in human monocytes. Hurme M. **FEBS Lett** 1990 Apr 9; 263(1):35–7
Glutamine synthetase modulation in astrocyte cultures of different mouse brain areas. Kheili M, et al. **GLIA** 1990; 3(1):75–80
Effects of DBcAMP on exercise capacity in patients with and without chronic heart failure. Nakajima H, et al. **Int J Cardiol** 1989 Oct;25(1):55–62
Effects of NGF and dibutyryl cAMP on neuronal differentiation of embryonal carcinoma cells. Sharma S, et al. **Int J Dev Neurosci** 1990;8(1):33–45
Sensitivity of lipolysis and lipogenesis to dibutyryl-cAMP and beta-adrenergic agonists in swine adipocytes in vitro. Mills SE, et al. **J Anim Sci** 1990 Apr;68(4):1017–23
Meiotic maturation of bovine oocytes in vitro: improvement of meiotic competence by dibutyryl cyclic adenosine 3',5'-monophosphate. Sato E, et al. **J Anim Sci** 1990 Apr; 68(4):1182–7
Dibutyryl cAMP, aminophylline, and beta-adrenergic agonists protect against pulmonary edema caused by phosgene. Kennedy TP, et al. **J Appl Physiol** 1989 Dec; 67(6):2542–52
Dibutyryl cAMP induces a gestation-dependent absorption of fetal lung liquid. Walters DV, et al. **J Appl Physiol** 1990 May;68(5):2054–9
Effects of Ca2+ ionophore A23187, 1,2-dioctanoylglycerol, and dibutyryl cAMP on the activity and expression of ornithine decarboxylase in guinea pig lymphocytes. Otani S, et al. **J Biochem (Tokyo)** 1990 Apr;107(4):526–9
Glucagon- and dibutyryl cyclic AMP-produced inhibition of cholesterol ester hydrolase in isolated rat hepatocytes: role of calcium. Ruiz MB, et al. **J Biochem (Tokyo)** 1990 Mar;107(3):476–9
Subtype-specific cyclic AMP-dependent histone H1 phosphorylation at the differentiation of mouse neuroblastoma cells. Ajiro K, et al. **J Biol Chem** 1990 Apr 15;265(11):6494–500
Hexose transport stimulation and membrane redistribution of glucose transporter isoforms in response to cholera toxin, dibutyryl cyclic AMP, and insulin in 3T3-L1 adipocytes. Clancy BM, et al. **J Biol Chem** 1990 Jul 25;265(21):12434–43
Identification of a 27-kDa protein with the properties of type II iodothyronine 5'-deiodinase in dibutyryl cyclic AMP-stimulated glial cells. Farwell AP, et al. **J Biol Chem** 1989 Dec 5;264(34):20561–7
Adenosine receptor-mediated accumulation of cyclic AMP-induced T-lymphocyte death through internucleosomal DNA cleavage. Kizaki H, et al. **J Biol Chem** 1990 Mar 25;265(9):5280–4
Post-transcriptional regulation of cAMP-dependent protein kinase activity by cAMP in GH3 pituitary tumor cells. Evidence for increased degradation of catalytic subunit in the presence of cAMP. Richardson JM, et al. **J Biol Chem** 1990 Aug 15;265(23):13635–40
Effects of parathyroid hormone, calcitonin, and dibutyryl-cyclic AMP on osteoclast area in cultured chick tibia. Pandalai S, et al. **J Bone Miner Res** 1990 Jul; 5(7):701–5
Differential effects of testosterone and dibutyryl cyclic AMP on the meiotic maturation of mouse oocytes in vitro. Ecay TW, et al. **J Exp Zool** 1990 Jan;253(1):88–98
BK virus early RNA transcripts in stably transformed cells: enhanced levels induced by dibutyryl cyclic AMP, forskolin and 12-O-tetradecanoylphorbol-13-acetate treatment. Moens U, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1461–71
Calcitonin, prostaglandin E2, and dibutyryl cyclic adenosine 3',5'-monophosphate disperse the specific microfilament structure in resorbing osteoclasts. Lakkakorpi PT, et al. **J Histochem Cytochem** 1990 Oct;38(10):1487–93
Restoration by levamisole of rosette-forming cells inhibited by histamine, db-CAMP and adenosine. De Cock W, et al. **J Immunopharmacol** 1978–79;1(1):115–22
Induction of differentiation of rat retinal, germinal, neuroepithelial cells by dbcAMP. Taylor M, et al. **J Neurobiol** 1990 Apr;21(3):470–81
Cyclic AMP and butyrate modulate melatonin synthesis in Y79 human retinoblastoma cells. Wiechmann AF, et al. **J Neurochem** 1990 Jul;55(1):208–14
Increased N-myc mRNA expression associated with dibutyryl cyclic AMP induced neuroblastoma differentiation. Berman SA, et al. **J Neurogenet** 1989 Nov; 6(2):75–86
Herpes simplex virus type 1 infection of rat astrocytes in primary culture: effects of dibutyryl cyclic AMP. McCarthy M, et al. **J Neuropathol Exp Neurol** 1990 Jan; 49(1):3–20
Influence of PGE2- and cAMP-modulating agents on human glioblastoma cell killing by interleukin-2-activated lymphocytes. Kuppner MC, et al. **J Neurosurg** 1990 Apr; 72(4):619–25
The dynamics of progesterone output in perifused granulosa layer of the Japanese quail (Coturnix coturnix japonica): response to adenosine 3',5'-cyclic monophosphate and aminoglutethimide. Mori M, et al. **J Steroid Biochem** 1989 Dec;33(6):1173–9
Action of LH, FSH and (Bu)2 cAMP on the conversion of [3H]19-hydroxyandrostenedione into oestrogens by

foetal and infantile rat ovaries in organ culture. Weniger JP, et al. **J Steroid Biochem** 1990 Mar;35(3-4):507-10

Diazepam potentiates the corticoidogenic response of bovine adrenal fasciculata cells to dibutyryl cyclic AMP. Yanagibashi K, et al. **Jpn J Pharmacol** 1989 Nov; 51(3):347-55

Phosphorylation of adrenal histone H3 is affected by angiotensin, ACTH, dibutyryl cAMP, and atrial natriuretic peptide. Elliott ME. **Life Sci** 1990;46(20):1479-88

Cyclic AMP analogs and retinoic acid influence the expression of retinoic acid receptor alpha, beta, and gamma mRNAs in F9 teratocarcinoma cells. Hu L, et al. **Mol Cell Biol** 1990 Jan;10(1):391-6

Cyclic AMP inhibits inositol polyphosphate production and calcium mobilization in neuroblastoma X glioma NG108-15 cells. Campbell MD, et al. **Mol Pharmacol** 1990 Aug; 38(2):282-8

Effects of dibutyryl cyclic adenosine monophosphate, ACTH(4-10) and gangliosides on nerve fiber regeneration after rat sciatic nerve tubulization. Knoops B, et al. **Neurosci Lett** 1990 Mar 2;110(1-2):180-5

Retinoic acid, dibutyryl-cAMP, and differentiation affect the expression of retinoic acid receptors in F9 cells. Martin CA, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4804-8

The mRNA encoding a high-affinity cAMP phosphodiesterase is regulated by hormones and cAMP. Swinnen JV, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8197-201

Cross-bridge kinetics derived from isotonic segment dynamics in V1 and V3-containing rat cardiac muscles: effects of adrenaline and dibutyryl cyclic AMP. Saeki Y, et al. **Prog Clin Biol Res** 1989;315:595-6

Comparisons of heptaminol AMP amidate and dibutyryl cyclic AMP on murine splenocytes proliferation. Saha AR, et al. **Res Commun Chem Pathol Pharmacol** 1990 Mar; 67(3):337-48

A comparison of the vasorelaxant effects of enoximone and dibutyryl cyclic AMP measured in rat aortic rings. Schweitzer DH, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun;68(3):291-7

[The differentiation of human gastric adenocarcinoma cell line MGc80-3 induced by dibutyryl cAMP in vitro] Li QF, et al. **Shih Yen Sheng Wu Hsueh Pao** 1990 Jun; 23(2):167-75 (Eng. Abstr.) **(Chi)**

[Induction of differentiation in testicular choriocarcinoma cells and its role in cancer therapy] Yamazaki H. **Nippon Hinyokika Gakkai Zasshi** 1989 Nov;80(11):1651-6 (Eng. Abstr.) **(Jpn)**

[Experimental study on maturational therapy of osteosarcoma cell] Otsuka T, et al. **Nippon Seikeigeka Gakkai Zasshi** 1990 May;64(5):421-9 (Eng. Abstr.) **(Jpn)**

[The role of gonadotropins, cyclic AMP, 22-R-hydroxycholesterol and cofactors in regulating endocrine functions of the Leydig cells in rats. II. Effects of LH, hCG, dbcAMP, 22-R-OH-cholesterol and cofactors on the synthesis of pregnenolone and testosterone in the interstitial gland of rats] Grochowski D, et al. **Ginekol Pol** 1989 May;60(5):246-51 (Eng. Abstr.) **(Pol)**

[The effect of dibutyryl derivatives of cyclic nucleotides on albumin production in a primary culture of rat liver cells] Fedotov VP, et al. **Vopr Med Khim** 1990 Jan-Feb; 36(1):69-72 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Comparative hemodynamic effects of intravenous dobutamine and dibutyryl cyclic AMP, a new inotropic agent, in severe congestive heart failure. Miyagi Y, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):138-43

[The effects of dopamine and/or dibutyryl cyclic AMP on renal dysfunction induced by IPPV with PEEP in dogs] Yamada S, et al. **Masui** 1990 Jun;39(6):708-14 (Eng. Abstr.) **(Jpn)**

[Protective effects of DBcAMP on ischemic liver failure in dogs] Kakisaka A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1175-82 (Eng. Abstr.) **(Jpn)**

TOXICITY

Neuroexcitotoxic action of db-cAMP: lesioning of neuronal cell bodies while sparing fibers of passage. Tojo Y, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):561-2

[Neuroexcitotoxic action of db-cAMP: lesioning of neuronal cell bodies while sparing fibers of passage] Tojo Y, et al. **No To Shinkei** 1990 Mar;42(3):231-7 (Eng. Abstr.) **(Jpn)**

DIBUTYRYL CYCLIC GMP see under **GUANOSINE CYCLIC MONOPHOSPHATE**

DICAMBA see under **BENZOATES**

DICARBETHOXYDIHYDROCOLLIDINE see under **DIHYDROPYRIDINES**

DICARBOXYLIC ACIDS

ADMINISTRATION & DOSAGE

[National and international experiences with azelaic acid cream in the treatment of papulo-pustular acne] Cavicchini S, et al. **G Ital Dermatol Venereol** 1989 Oct;124(10):465-70 (Eng. Abstr.) **(Ita)**

[National and international clinical experiences with azelaic acid cream in the treatment of comedo acne] Giannotti B. **G Ital Dermatol Venereol** 1989 Oct;124(10):471-7 (Eng. Abstr.) **(Ita)**

[Topical therapeutic action of azelaic acid in polymorphous acne] Troccoli T, et al. **G Ital Dermatol Venereol** 1989 Oct; 124(10):485-91 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

[Carboxylic acid anhydrides as a cause for occupational allergic respiratory tract diseases in the handling of epoxy resins] Schöneich R, et al. **Z Gesamte Hyg** 1990 Mar; 36(3):164-6 (Eng. Abstr.) **(Ger)**

METABOLISM

Transport of malic acid and other dicarboxylic acids in the yeast Hansenula anomala. Côrte-Real M, et al. **Appl Environ Microbiol** 1990 Apr;56(4):1109-13

Dicarboxylic acid transport and regulation of nitrogen fixation in Rhizobium meliloti. Noonan B, et al. **Biochem Soc Trans** 1990 Apr;18(2):359-60

Steps in the conversion of alpha-ketosuberate to 7-mercaptoheptanoic acid in methanogenic bacteria. White RH. **Biochemistry** 1989 Nov 28;28(24):9417-23

The hypolipidemic peroxisome-proliferating drug, bis(carboxymethylthio)-1.10 decane, a dicarboxylic metabolite of tiadenol, is activated to an acylcoenzyme A thioester. Aarsland A, et al. **Biochim Biophys Acta** 1990 Feb 26;1033(2):176-83

Fatty acid metabolism in liver of rats treated with hypolipidemic sulphur-substituted fatty acid analogues. Asiedu D, et al. **Biochim Biophys Acta** 1990 May 22; 1044(2):211-21

Metabolism of dicarboxylic acids in rat hepatocytes. Bergseth S, et al. **Biochim Biophys Acta** 1990 Feb 6;1042(2):182-7

Alkylthioacetic acids (3-thia fatty acids) are metabolized and excreted as shortened dicarboxylic acids in vivo. Bergseth S, et al. **Biochim Biophys Acta** 1990 May 22;1044(2):237-42

Kinetics of the reconstituted dicarboxylate carrier from rat liver mitochondria. Indiveri C, et al. **Biochim Biophys Acta** 1989 Nov 23;977(2):187-93

Kinetic discrimination of two substrate binding sites of the reconstituted dicarboxylate carrier from rat liver mitochondria. Indiveri C, et al. **Biochim Biophys Acta** 1989 Nov 23;977(2):194-9

The oxidation of dicarboxylic acid CoA esters via peroxisomal fatty acyl-CoA oxidase. Poosch MS, et al. **Biochim Biophys Acta** 1989 Dec 18;1006(3):291-8

Production of dodecanedioic acid from n-dodecane by yeasts. Liu WH, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):242-8

Comparison of clinical Acinetobacter strains using a carbon source growth assay. Dijkshoorn L, et al. **Epidemiol Infect** 1990 Jun;104(3):443-53

Genetic analysis and regulation of the Rhizobium meliloti genes controlling C4-dicarboxylic acid transport. Wang YP, et al. **Gene** 1989 Dec 21;85(1):135-44

Peroxisomal and mitochondrial beta-oxidation of monocarboxylyl-CoA, omega-hydroxymonocarboxylyl-CoA and dicarboxylyl-CoA esters in tissues from untreated and clofibrate-treated rats. Vamecq J, et al. **J Biochem (Tokyo)** 1989 Aug;106(2):216-22

3-Hydroxydicarboxylic aciduria—a fatty acid oxidation defect with severe prognosis. Hagenfeldt L, et al. **J Pediatr** 1990 Mar;116(3):387-92

Mechanisms of dicarboxylic aciduria and dicarboxylic acid metabolism. Mortensen PB. **Prog Clin Biol Res** 1990; 321:249-64

PHARMACOLOGY

Azelaic acid esters do not depigment pigmented guinea pig skin [letter] Wilkerson MG, et al. **Arch Dermatol** 1990 Feb; 126(2):252-3

A possible mechanism of action for azelaic acid in the human epidermis. Schallreuter KU, et al. **Arch Dermatol Res** 1990; 282(3):168-71

Alkylthio acetic acids (3-thia fatty acids)—a new group of non-beta-oxidizable peroxisome-inducing fatty acid analogues—II. Dose-response studies on hepatic peroxisomal- and mitochondrial changes and long-chain fatty acid metabolizing enzymes in rats. Berge RK, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):3969-79

SK&F S-106203 inhibits leukotriene C4, leukotriene D4 and leukotriene E4 vasopressor responses in the conscious rat. Smith EF 3d, et al. **Br J Pharmacol** 1990 Jun;100(2):195-200

Concentration-dependent, stereoselective inhibition of the endotoxin-induced hemoconcentration in conscious rats with the peptidoleukotriene receptor antagonist SK & F 104353. Smith EF 3d, et al. **Eicosanoids** 1989;2(2):101-7

Influence of organic acids on heat resistance characteristics of Talaromyces flavus ascospores. Beuchat LR. **Int J Food Microbiol** 1988 Mar;6(2):97-105

Effects of SK&F 104353, a leukotriene receptor antagonist, on the bronchial responses to histamine in subjects with asthma: a comparative study with terfenadine. Dinh Xuan AT, et al. **J Allergy Clin Immunol** 1990 May;85(5):865-71

Tagetitoxin inhibits RNA synthesis directed by RNA polymerases from chloroplasts and Escherichia coli. Mathews DE, et al. **J Biol Chem** 1990 Jan 5;265(1):493-8

Tagetitoxin: a new inhibitor of eukaryotic transcription by RNA polymerase III. Steinberg TH, et al. **J Biol Chem** 1990 Jan 5;265(1):499-505

SK&F 104353: selective antagonism of peptidoleukotrine-induced changes in electrolyte transport by rat ileal mucosa in vitro. Elton E, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):484-9

Short-term infusion of azelaic acid vs intralipid in healthy subjects evaluated by indirect calorimetry. Tacchino RM, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar-Apr; 14(2):169-72

[Mechanism of azelaic acid action in acne] Passi S, et al. **G Ital Dermatol Venereol** 1989 Oct;124(10):455-63 (Eng. Abstr.) **(Ita)**

[Effects of antagonists of exciting amino acids on the neuro-destructive effect of quinolinic acid in vitro in comparison with their anticonvulsive action in situ] Khaspekov LG, et al. **Biull Eksp Biol Med** 1989 Aug; 108(8):190-3 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

[Validity of azelaic acid in the therapy of acne. Long-term clinical results] Colonna SM. **G Ital Dermatol Venereol** 1989 Oct;124(10):479-84 (Eng. Abstr.) **(Ita)**

[Azelaic acid in the treatment of acne] Nazzaro-Porro M, et al. **G Ital Dermatol Venereol** 1989 Apr;124(4):175-84 (35 ref.) (Eng. Abstr.) **(Ita)**

[Azelaic acid: an innovation in the treatment of acne. Introduction and history] Zina G. **G Ital Dermatol Venereol** 1989 Oct;124(10):451-3 **(Ita)**

URINE

Transient carnitine-responsive medium-chain dicarboxylic aciduria in an infant with cholestasis, hypoglycemia and cardiac failure. Matsuo M, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Apr;31(2):211-5

High-performance liquid chromatographic analyses of hydroxymonocarboxylic acids and dicarboxylic acids in urine as their 2-nitrophenylhydrazides. Miwa H, et al. **Anal Biochem** 1990 Feb 15;185(1):17-23

Mass spectrometric identification of 2-hydroxydodecanedioic acid and its homologues in urine from patients with hopantenate therapy during clinical episode. Matsumoto M, et al. **Biomed Environ Mass Spectrom** 1990 Mar; 19(3):171-5

Generalised dicarboxylic aciduria: a common finding in neonates. Downing M, et al. **J Inherited Metab Dis** 1989; 12 Suppl 2:321-4

Retrospective diagnosis of 3-hydroxydicarboxylic aciduria by analysis of filter paper blood samples. von Döbeln U, et al. **J Inherited Metab Dis** 1990;13(2):165-8

Identification of isomeric unsaturated medium-chain dicarboxylic acids in human urine. Jin SJ, et al. **J Lipid Res** 1989 Oct;30(10):1611-9

Abnormal urinary excretion of unsaturated dicarboxylic acids in patients with medium-chain acyl-CoA dehydrogenase deficiency. Tserng KY, et al. **J Lipid Res** 1990 May; 31(5):763-71

Clinical and biochemical presentations in 20 cases of hydroxydicarboxylic aciduria. Pollitt RJ. **Prog Clin Biol Res** 1990;321:495-502

DICARBOXYLIC AMINO ACIDS see **AMINO ACIDS, DICARBOXYLIC**

DICHLOROACETATE see under **ACETIC ACIDS**

3,3'-DICHLOROBENZIDINE see under **BENZIDINES**

DICHLORODIPHENYLDICHLOROETHANE see **DDD**

DICHLOROETHYLENES see under **HYDROCARBONS, CHLORINATED**

2,6-DICHLOROINDOPHENOL see under **INDOPHENOL**

DICHLOROMETHYLENE DIPHOSPHONATE see under **DIPHOSPHONATES**

2,4-DICHLOROPHENOXYACETIC ACID

ADVERSE EFFECTS

Serious errors in new volume on Agent Orange and dioxin. Hardell L. **Am J Ind Med** 1990;17(2):261-7

2,4-D, 2,4,5-T, and 2,3,7,8-TCDD: an overview. Lilienfeld DE, et al. **Epidemiol Rev** 1989;11:28-58 (161 ref.)

Effects of gestational exposure to Tordon 202c on fetal growth and development in CD-1 mice. Blakley PM, et al. **J Toxicol Environ Health** 1989;28(3):309-16

Cancer risks. War is unhealthy, US finds [news] Anderson GC. **Nature** 1990 Apr 5;344(6266):478

Agent Orange controversy [letter; comment] Bellett AJ. **Nature** 1990 Feb 15;343(6259):586 Comment on: Nature 1989 Nov 16;342(6247):217.

Agent Orange. 'Not guilty' verdict challenged [news] [see comments] Ewing T. **Nature** 1989 Nov 16;342(6247):217 Comment in: Nature 1990 Feb 15;343(6259):586.

ANALOGS & DERIVATIVES

Permeation of a 2,4-D isooctyl ester formulation through neoprene, nitrile, and Tyvek protection materials. Harville J, et al. **Am Ind Hyg Assoc J** 1989 Aug;50(8):438–46

Penetration studies and residue determinations of 2,4-dichlorophenoxyacetic acid butyl ester in fertile hen eggs and chicks hatched from treated eggs. Castro de Cantarini SM, et al. **Drug Chem Toxicol** 1989 Jun; 12(2):137–46

Dermal absorption of the phenoxy herbicides 2,4-D, 2,4-D amine, 2,4-D isooctyl, and 2,4,5-T in rabbits, rats, rhesus monkeys, and humans: a cross-species comparison. Moody RP, et al. **J Toxicol Environ Health** 1990;29(3):237–45

Disposition of 2,4-dichlorophenoxyacetic acid dimethylamine by Fischer 344 rats dosed orally and dermally. Pelletier O, et al. **J Toxicol Environ Health** 1989; 28(2):221–34

ANALYSIS

Persistence and lateral movement of 2,4-dichlorophenoxy acetic acid and picloram on power line rights-of-way. Meru S, et al. **Arch Environ Contam Toxicol** 1990 Jul–Aug; 19(4):572–7

Influence of climatic and edaphic factors on persistence of glyphosate and 2,4-D in forest soils. Torstensson NT, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):230–9

Selective detection of underivatized 2,4-dichlorophenoxyacetic acid in soil by supercritical fluid chromatography with ion mobility detection. Morrissey MA, et al. **J Chromatogr Sci** 1989 Sep;27(9):529–33

METABOLISM

Degradation of the chlorinated phenoxyacetate herbicides 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid by pure and mixed bacterial cultures. Haugland RA, et al. **Appl Environ Microbiol** 1990 May;56(5):1357–62

Biological degradation of 2,4-dichlorophenoxyacetic acid: chloride mass balance in stirred tank reactors. Kelly MP, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2717–9

Evidence for a dissimilatory plasmid in Azotobacter chroococcum. Balajee S, et al. **FEMS Microbiol Lett** 1989 Nov;53(1–2):223–7

Regulation of tfdCDEF by tfdR of the 2,4-dichlorophenoxyacetic acid degradation plasmid pJP4. Kaphammer B, et al. **J Bacteriol** 1990 May;172(5):2280–6

PHARMACOKINETICS

Distribution of three common chlorophenoxyacetic acid herbicides into the rat brain. Tyynelä K, et al. **Arch Toxicol** 1990;64(1):61–5

Dermal absorption of the phenoxy herbicides 2,4-D, 2,4-D amine, 2,4-D isooctyl, and 2,4,5-T in rabbits, rats, rhesus monkeys, and humans: a cross-species comparison. Moody RP, et al. **J Toxicol Environ Health** 1990;29(3):237–45

[New plasmids of herbicide 2,4-dichlorophenoxyacetic acid biodegradation] Ausméés NR, et al. **Genetika** 1990 Apr; 26(4):770–2 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Morphological transformation and catalase activity of Syrian hamster embryo cells treated with hepatic peroxisome proliferators, TPA and nickel sulphate. Mikalsen SO, et al. **Cell Biol Toxicol** 1990 Jan;6(1):1–13

Induction and superinduction of auxin-responsive mRNAs with auxin and protein synthesis inhibitors. Franco AR, et al. **J Biol Chem** 1990 Sep 15;265(26):15845–9

POISONING

Clinical presentation and management of acute 2,4-D oral ingestion. Friesen EG, et al. **Drug Saf** 1990 Mar–Apr; 5(2):155–9

Carcinogenicity and teratogenicity vs. psychogenicity: psychological characteristics associated with self-reported Agent Orange exposure among Vietnam combat veterans who seek treatment for substance abuse. Robinowitz R, et al. **J Clin Psychol** 1989 Sep;45(5):718–28

[Use of extracorporeal circulation in the treatment of 2,4-dichlorophenoxyacetic acid poisoning] Duraković Z, et al. **Acta Med Iugosl** 1990;44(1):65–73 (Eng. Abstr.) **(Ser)**

TOXICITY

The improbable association between the herbicide 2,4-D and polyneuropathy. Mattsson JL, et al. **Biomed Environ Sci** 1990 Mar;3(1):43–51 (45 ref.)

Toxicity of mixtures of parathion, toxaphene and/or 2,4-D in mice. Kuntz DJ, et al. **J Appl Toxicol** 1990 Aug; 10(4):257–66

The boring story of Agent Orange already is outdated [letter; comment] Barr M. **Med J Aust** 1989 Sep 18;151(6):356 Comment on: Med J Aust 1989 May 15;150(10):602.

Agent Orange: veterans sue to force study [news] Anderson C. **Nature** 1990 Aug 9;346(6284):498

Reappraisal of the findings on Agent Orange by the Australian Royal Commission. Steele EJ, et al. **Toxicol Lett** 1990 May;51(3):261–8 (34 ref.)

DICHLORORIBOFURANOSYLBENZIMIDAZOLE see under **RIBONUCLEOSIDES**

DICHLOROXACILLIN see **DICLOXACILLIN**

DICHLORVOS

ANALOGS & DERIVATIVES

In vivo and in vitro regional differential sensitivity of neuropathy target esterase to di-n-butyl-2,2-dichlorovinyl phosphate. Moretto A, et al. **Arch Toxicol** 1989; 63(6):469–73

PHARMACOLOGY

Effects of dichlorvos on blood cholinesterase activities of cattle [published erratum appears in Am J Vet Res 1990 Mar;51(3):495] Khan AA, et al. **Am J Vet Res** 1990 Jan; 51(1):79–82

Effect of dichlorvos on haemocyte morphology in the male and female P. pictus. Shukla K, et al. **Folia Morphol (Praha)** 1989;37(2):142–7

Effects of dichlorvos treatment on mouse reproduction. Casebolt DB, et al. **Lab Anim Sci** 1990 Jan;40(1):65–7

POISONING

[Experimental substantiation of the mechanism of the development of acute poisoning after exposure to meteorological factors at pesticide-treated agricultural fields] Goncharuk EI, et al. **Gig Sanit** 1990 Mar;(3):4–7 (Eng. Abstr.) **(Rus)**

TOXICITY

Effects of repeated topical application of dichlorvos on blood enzymes and its toxicity in buffalo calves (Bubalus bubalis). Raina R, et al. **Br Vet J** 1990 May–Jun;146(3):264–9

Effect of diphenhydramine on organophosphorus insecticide toxicity in mice. Mohammad FK, et al. **Toxicology** 1989 Sep;58(1):91–5

[Studies on dichlorvos (DDVP). III. Testing of dichlorvos for cocarcinogenic activity in mice] Horn KH, et al. **Arch Geschwulstforsch** 1990;60(2):117–24 (Eng. Abstr.) **(Ger)**

DICHOTIC LISTENING TESTS see under **HEARING TESTS**

DICLOFENAC

ADMINISTRATION & DOSAGE

Paediatric postoperative analgesia. A comparison of rectal diclofenac with caudal bupivacaine after inguinal herniotomy. Moores MA, et al. **Anaesthesia** 1990 Feb; 45(2):156–8

Rectal diclofenac compared with pethidine injection in acute renal colic. Thompson JF, et al. **BMJ** 1989 Nov 4; 299(6708):1140–1

Preparation of a prolonged-release tablet formulation of diclofenac sodium. Part 1: Using chitosan. Acartürk F. **Pharmazie** 1989 Aug;44(8):547–9

[Piroxicam gel versus diclofenac gel in active gonarthroses] Rau R, et al. **Fortschr Med** 1989 Jul 30;107(22):485–8 (Eng. Abstr.) **(Ger)**

[Intramuscular etofenamate in the treatment of acute lumbago. Effectiveness and tolerance in comparison with intramuscular diclofenac-Na] Stratz T. **Fortschr Med** 1990 Apr 30;108(13):264–6 (Eng. Abstr.) **(Ger)**

[Prevention of cystoid macular edema with diclofenac eyedrops in intracapsular cataract extraction using the Choyce Mark IX anterior chamber lens] Quentin CD, et al. **Fortschr Ophthalmol** 1989;86(6):546–9 (Eng. Abstr.) **(Ger)**

[Results of a double-blind study of diclofenac + vitamin B1, B6, B12 versus diclofenac in patients with acute pain of the lumbar vertebrae. A multicenter study] Brüggemann G, et al. **Klin Wochenschr** 1990 Jan 19;68(2):116–20 (Eng. Abstr.) **(Ger)**

[Reduced diclofenac administration by B vitamins: results of a randomized double-blind study with reduced daily doses of diclofenac (75 mg diclofenac versus 75 mg diclofenac plus B vitamins) in acute lumbar vertebral syndromes] Kuhlwein A, et al. **Klin Wochenschr** 1990 Jan 19;68(2):107–15 (Eng. Abstr.) **(Ger)**

[Urinary calculus protective side effects of anti-rheumatic therapy] Schlichter A, et al. **Z Urol Nephrol** 1990 Apr; 83(4):175–81 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Minimal-change glomerulopathy associated with diclofenac: response to prednisone [letter; comment] Rotellar JA, et al. **Am J Kidney Dis** 1989 Dec;14(6):530–1 Comment on: Am J Kidney Dis 1989 Feb;13(2):127–30.

Unusual reaction to diclofenac [letter] Tweedie DG. **Anaesthesia** 1989 Nov;44(11):932

Diclofenac sodium and bruising [letter] Khazan U, et al. **Ann Intern Med** 1990 Mar 15;112(6):472–3

Chronic active hepatitis associated with diclofenac sodium therapy. Mazeika PK, et al. **Br J Clin Pract** 1989 Mar; 43(3):125–6

Possible diclofenac-quinolone interaction [letter] Healy DP, et al. **Clin Pharm** 1989 Dec;8(12):837

Comment: agranulocytosis caused by diclofenac? [letter] **DICP** 1990 Jul–Aug;24(7–8):786–7

Fatal aplastic anaemia following prolonged diclofenac use in an elderly patient. Eustace S, et al. **Ir J Med Sci** 1989 Aug;158(8):217

Diclofenac associated hepatitis. Iveson TJ, et al. **J Hepatol** 1990 Jan;10(1):85–9

Spontaneous non-gastrointestinal bleeding associated with diclofenac [letter] Price AJ, et al. **Lancet** 1989 Dec 23–30; 2(8678–8679):1520

Colonic ulceration and bleeding during diclofenac therapy [letter] Carson J, et al. **N Engl J Med** 1990 Jul 12;323(2):135

Renal and hepatic impairment in association with diclofenac administration [letter] Diggory P, et al. **Postgrad Med J** 1989 Jul;65(765):507–8

[The nephrotic syndrome as a consequence of Feloran treatment in a female patient with rheumatoid arthritis] Dimitrakov D, et al. **Vutr Boles** 1990;29(1):88–91 (Eng. Abstr.) **(Bul)**

[Cholestatic hepatitis and acute kidney insufficiency during treatment with diclofenac] Hovette P, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Nov;25(6):257–8 **(Fre)**

ANALOGS & DERIVATIVES

Comparative bioavailability of diclofenac hydroxyethylpyrrolidine vs diclofenac sodium in man. Maggi CA, et al. **Eur J Clin Pharmacol** 1990;38(2):207–8

Synthesis and quantitative structure-activity relationships of diclofenac analogues. Moser P, et al. **J Med Chem** 1990 Sep;33(9):2358–68

ANALYSIS

High-performance liquid chromatographic method for the determination of diclofenac and its hydroxy metabolites in human plasma and urine. Lansdorp D, et al. **J Chromatogr** 1990 Jun 29;528(2):487–94

Determination of diclofenac in plasma and synovial fluid by high-performance liquid chromatography with electrochemical detection. Zecca L, et al. **J Chromatogr** 1989 Oct 27;495:303–8

BLOOD

High performance liquid chromatographic determination of diclofenac sodium in plasma using column-switching technique for sample clean-up. Lee HS, et al. **Arch Pharm (Weinheim)** 1989 Nov;322(11):801–6

PHARMACOKINETICS

Transfer of diclofenac sodium across excised guinea pig skin on high-frequency pulse iontophoresis. I. Equivalent circuit model. Koizumi T, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):1019–21

Transfer of diclofenac sodium across excised guinea pig skin on high-frequency pulse iontophoresis. II. Factors affecting steady-state transport rate. Koizumi T, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):1022–3

Pharmacokinetics of intravenous diclofenac sodium in children. Korpela R, et al. **Eur J Clin Pharmacol** 1990; 38(3):293–5

Comparative bioavailability of diclofenac hydroxyethylpyrrolidine vs diclofenac sodium in man. Maggi CA, et al. **Eur J Clin Pharmacol** 1990;38(2):207–8

Pharmacokinetics of rectal diclofenac and its hydroxy metabolites in man. Landsdorp D, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jul;28(7):298–302

[Inhibiting effect of the polyphenolic complex from Plantago major (plantastine) on the carcinogenic effect of endogenously synthesized nitrosodimethylamine] Karpilovskaia ED, et al. **Farmakol Toksikol** 1989 Jul–Aug; 52(4):64–7 (Eng. Abstr.) **(Rus)**

[Modification of the pharmacokinetics of ortophen and its analgesic activity by inducers and inhibitors of xenobiotic metabolism enzymes and thiamine diphosphate] Pentiuk AA, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):61–4 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Reduction in biliary excretion of ceftriaxone by diclofenac in rabbits. Merle-Melet M, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1506–10

Topical nonsteroidal agents and corneal wound healing. Hersh PS, et al. **Arch Ophthalmol** 1990 Apr;108(4):577–83

Inhibitory effects of diclofenac and indomethacin on interleukin-1-induced changes in PGE2 release. A novel effect on free arachidonic acid levels in human synovial cells. O'Neill LA, et al. **Biochem Pharmacol** 1989 Nov 1; 38(21):3707–11

Leukocyte stimulation of intimal lesion formation is inhibited by treatment with diclofenac sodium and dexamethasone. Prescott MF, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 6:S76–81

The effects of ibuprofen and diclofenac on the chemotaxis and adenosine triphosphate level of polymorphonuclear cells in vitro. Partsch G, et al. **J Rheumatol** 1990 May; 17(5):583–8

The effect of diclofenac acid (Voltaren) on bleomycin-induced pulmonary fibrosis in hamsters. Chandler DB, et al.

Prostaglandins Leukot Essent Fatty Acids 1989 Oct; 38(1):9–14

[The effects of diclofenac sodium on thyroid function tests in vivo and in vitro] Aoyama A, et al. **Rinsho Byori** 1990 Jun;38(6):688–92 (Eng. Abstr.) **(Jpn)**

[Antioxidant properties of benzofurocaine, phenycaberan and orthophen] Lebedev AV, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):59–62 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

The effect of diclofenac and nefopam on postoperative dental pain. Goucke CR, et al. **Anaesthesia** 1990 Apr;45(4):329–31

Postoperative nefopam and diclofenac. Evaluation of their morphine-sparing effect after upper abdominal surgery. Moffat AC, et al. **Anaesthesia** 1990 Apr;45(4):302–5

Postoperative pain relief; a new approach: narcotics compared with non-steroidal anti-inflammatory drugs [letter] [see comments] Ewart MC, et al.
Ann R Coll Surg Engl 1989 Sep;71(5):338 Comment in: Ann R Coll Surg Engl 1990 May;72(3):212.

Inhibition of blood–aqueous humor barrier breakdown with diclofenac. A fluorophotometric study. Kraff MC, et al. **Arch Ophthalmol** 1990 Mar;108(3):380–3

Assessment of diclofenac on herpes keratitis in rabbit eyes. Trousdale MD, et al. **Arch Ophthalmol** 1989 Nov; 107(11):1664–6

Histomorphological and lectin-histochemical confirmation of the antidegenerative effect of diclofenac in experimental osteoarthrosis. Hoedt-Schmidt S, et al.
Arzneimittelforschung 1989 Oct;39(10):1212–9

A controlled comparison of piroxicam and diclofenac in patients with osteoarthritis. Gerecz-Simon E, et al.
Clin Rheumatol 1990 Jun;9(2):229–34

Diclofenac. Ogle C. **Conn Med** 1989 Oct;53(10):603–4

Tenoxicam compared with diclofenac in patients with ankylosing spondylitis. Schwarzer AC, et al.
Curr Med Res Opin 1990;11(10):648–53

Intramuscular diclofenac sodium versus intravenous Baralgin in the treatment of renal colic. Sanahuja J, et al. **DICP** 1990 Apr;24(4):361–4

Effects of peri-operatively administered diclofenac and indomethacin on blood loss, bleeding time and plasma prostanoids in man. Rorarius MG, et al.
Eur J Anaesthesiol 1989 Sep;6(5):335–42

Preventing a hot gallbladder: promising new application of a new drug. Borum M, et al. **Gastroenterology** 1990 Jan; 98(1):240–1

Selective effect of diclofenac in the treatment of osteoarthritis versus dysmenorrhea. Miller LG, et al.
J Clin Pharmacol 1990 Apr;30(4):378–9

Comparison of the analgesic and anti-inflammatory effects of diclofenac potassium versus piroxicam versus placebo in ankle sprain patients. Bahamonde LA, et al.
J Int Med Res 1990 Mar–Apr;18(2):104–11

A double-blind randomised multicentre study with tenoxicam, piroxicam and diclofenac sodium retard in the treatment of ambulant patients with osteoarthritis and extra-articular rheumatism. Moser U, et al.
Scand J Rheumatol Suppl 1989;80:71–80

Glycose aminoglycane excretion and concentration in the urine of patients with frequently recurrent calcium-oxalate lithiasis prior to and following Diclofenac-Na therapy. Brundig P, et al. **Urol Res** 1990;18(1):21–4

[Comparative clinical study of the efficacy of Pharmachem's feloran gel and voltaren emulsion-gel in the combined treatment of arthrosis-arthritis of the knee joint] Penkov N, et al. **Vutr Boles** 1989;28(4):126–9 **(Bul)**

[Effect of diclofenac and superoxide dismutase on the ischemic skeletal muscle of the dog] Scheja HM, et al.
Biomed Tech (Berlin) 1989;34 Suppl:252–4 **(Ger)**

[Changes in the invasive process and the immune response of the host during the mebendazole and voltaren treatment of experimental trichinelliasis in guinea pigs] Raisov TK, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):31–5 (Eng. Abstr.) **(Rus)**

TOXICITY

[Gastroduodenal tolerance of tenoxicam versus diclofenac-Na: an endoscopy double-blind controlled study in healthy probands] Müller P, et al.
Z Rheumatol 1989 Sep–Oct;48(5):243–5 (Eng. Abstr.) **(Ger)**

DICLOPHENAC see **DICLOFENAC**

DICLOXACILLIN

ANALYSIS

HPLC determination of K-betacillin and Na-dicloxacillin in oily suspension. Kitsos M, et al. **Boll Chim Farm** 1989 Jul–Aug;128(7–8):229–31

PHARMACOKINETICS

Dicloxacillin concentrations in amputation. Jørgensen LN, et al. **Acta Orthop Scand** 1989 Oct;60(5):617–20

Dicloxacillin absorption and elimination in children. Smith AL, et al. **Dev Pharmacol Ther** 1990;14(1):35–44

PHARMACOLOGY

Participation of PBP 3 in the acquisition of dicloxacillin resistance in Listeria monocytogenes. Gutkind GO, et al.
J Antimicrob Chemother 1990 May;25(5):751–8

THERAPEUTIC USE

Efficacy of dicloxacillin-coated polyurethane catheters in preventing subcutaneous Staphylococcus aureus infection in mice. Sherertz RJ, et al.
Antimicrob Agents Chemother 1989 Aug;33(8):1174–8

DICOFOL see under **INSECTICIDES, ORGANOCHLORINE**

DICOUMARIN see **BISHYDROXYCOUMARIN**

DICROCOELIASIS

DIAGNOSIS

[False parasitism by Dicrocoelium dendriticum: presentation of 4 cases (letter)] Sauca Subías G, et al.
Med Clin (Barc) 1989 Sep 30;93(9):359 **(Spa)**

EPIDEMIOLOGY

A human infection with Dicrocoelium in Kenya. Chunge RN, et al. **East Afr Med J** 1989 Aug;66(8):551–2

VETERINARY

Efficacy of thiophanate and albendazole against natural infections of Dicrocoelium dentriticum, Fasciola hepatica, and gastrointestinal nematodes and cestodes in sheep. Onar E. **Vet Parasitol** 1990 Feb;35(1–2):139–45

DICROCOELIUM

Structural and electronic properties of the liver fluke heme cavity by nuclear magnetic resonance and optical spectroscopy. Evidence for a distal tyrosine residue in a normally functioning hemoglobin [published erratum appears in J Mol Biol 1990 Apr 5;212(3):553] Lecomte JT, et al. **J Mol Biol** 1989 Sep 20;209(2):235–47

DICROSTONYX see **CRICETIDAE**

DICTIONARIES

A proto-dictionary of psychoanalysis. Rizzuto AM.
Int J Psychoanal 1990;71 (Pt 2):261–70

Dictionary of mental health programs: a response to a fragmented mental health system. Waizer J. **Psychiatr Q** 1990 Spring;61(1):21–39

[You did say odd?] Biéder J, et al.
Ann Med Psychol (Paris) 1989 Aug;147(6):673–8 **(Fre)**

[The Auschwitz dictionary (L). A model] Kłodziński S, et al. **Przegl Lek** 1990;47(1):77–99 **(Pol)**

DICTIONARIES, MEDICAL

Orthopaedic glossary. Kinzinger P. **Acta Orthop Belg** 1990; 56 Suppl 1:1–95 **(Eng, Fre, Dut)**

Automated access to a large medical dictionary: online assistance for research and application in natural language processing. McCray AT, et al. **Comput Biomed Res** 1990 Apr;23(2):179–98

A feature dictionary supporting a multi-domain medical knowledge base. Naeymi-Rad F.
Comput Methods Programs Biomed 1989 Oct–Nov; 30(2–3):217–28

[Hand holders: unification of the terminology] L'vov SE, et al. **Ortop Travmatol Protez** 1990 Feb;(2):64–7 **(Rus)**

DICTYOCAULIASIS see **DICTYOCAULUS INFECTION**

DICTYOCAULUS see under **TRICHOSTRONGYLOIDEA**

DICTYOCAULUS INFECTION

BLOOD

Osmotic fragility of sheep erythrocytes and alterations in their membrane constituents in Dictyocaulus filaria infection. Bhat TK, et al. **Int J Parasitol** 1989 Dec; 19(8):953–5

COMPLICATIONS

Distribution of Pasteurella haemolytica in the respiratory tracts of carrier calves and those subsequently infected experimentally with Dictyocaulus viviparus. Shoo MK, et al. **Res Vet Sci** 1990 May;48(3):383–5

DRUG THERAPY

Effect of bronchodilator and intravascular oxygen releaser on the course of Dictyocaulus filaria infection in lambs. Sharma RL, et al. **Vet Parasitol** 1990 Feb;35(1–2):147–55

Comparison of the efficacy of dermal formulations of ivermectin and levamisole for the treatment and prevention of Dictyocaulus viviparus infection in cattle. Taylor SM, et al. **Vet Rec** 1990 Apr 14;126(15):357–9

ETIOLOGY

Increased establishment of lungworms (Dictyocaulus viviparus) in calves after previous infections with gastrointestinal nematodes (Ostertagia ostertagi and Cooperia oncophora). Kloosterman A, et al.
Vet Parasitol 1989 Sep;33(2):155–63

Increased establishment of lungworms after exposure to a combined infection of Ostertagia ostertagi and Cooperia oncophora. Kloosterman A, et al. **Vet Parasitol** 1990 May; 36(1–2):117–22

IMMUNOLOGY

A comparison of interactions between vaccination against Dictyocaulus viviparus and anthelmintic suppression in immunised and unimmunised yearling cattle. Taylor SM, et al. **Vet Rec** 1990 Feb 24;126(8):185–8

PREVENTION & CONTROL

Chemoprophylaxis and immunity to parasitic bronchitis in cattle—a field experiment comparing topical ivermectin and an oxfendazole intraruminal device. Jacobs DE, et al.
J Vet Pharmacol Ther 1989 Dec;12(4):444–50

Immunity of calves treated with an oxfendazole pulse release bolus to challenge with Dictyocaulus viviparus. Eysker M, et al. **Res Vet Sci** 1990 May;48(3):301–5

Comparison of a levamisole sustained-release bolus and ivermectin treatment to prevent bovine lungworm infection. Borgsteede FH, et al. **Vet Q** 1990 Apr;12(2):65–72

DICTYOPTERA see **ORTHOPTERA**

DICTYOSTELIUM

ANALYSIS

Acidic ribosomal proteins of Dictyostelium discoideum that show electrophoretic similarity to Escherichia coli proteins L7 and L12. Ramagopal S. **Biochem Cell Biol** 1989 Oct; 67(10):712–8

Identification and immunolocalization of cytoplasmic dynein in Dictyostelium. Koonce MP, et al.
Cell Motil Cytoskeleton 1990;15(1):51–62

Identification of a kinesin-like microtubule-based motor protein in Dictyostelium discoideum [published erratum appears in EMBO J 1990 Jan;9(1):306] McCaffrey G, et al. **EMBO J** 1989 Nov;8(11):3229–34

Dictyopterin, 6-(D-threo-1,2-dihydroxypropyl)-pterin, a new natural isomer of L-biopterin. Isolation from vegetative cells of Dictyostelium discoideum and identification. Klein R, et al. **Eur J Biochem** 1990 Feb 14; 187(3):665–9

Phosphotyrosine-containing proteins in Dictyostelium discoideum. Schweiger A, et al. **FEBS Lett** 1990 Jul 30; 268(1):199–202

Identification of a short sequence essential for actin binding by Dictyostelium ABP-120. Bresnick AR, et al.
J Biol Chem 1990 Jun 5;265(16):9236–40

CYTOLOGY

Cell-cell interactions in the development of Dictyostelium. Fontana D, et al. **Dev Biol (N Y 1985)** 1986;3:261–81 (27 ref.)

Transition of starving Dictyostelium cells to differentiation phase at a particular position of the cell cycle. Maeda Y, et al. **Differentiation** 1989 Sep;41(3):169–75

Cytoplasmic pH of Dictyostelium discoideum amebae during early development: identification of two cell subpopulations before the aggregation stage. Furukawa R, et al. **J Cell Biol** 1990 Jun;110(6):1947–54

Generation and characterization of Dictyostelium cells deficient in a myosin I heavy chain isoform. Jung G, et al. **J Cell Biol** 1990 Jun;110(6):1955–64

Expression of a cell surface antigen in Dictyostelium discoideum in relation to the cell cycle. Krefft M, et al.
J Cell Sci 1989 May;93 (Pt 1):199–204

ENZYMOLOGY

Involvement of protein kinase(s) in the intracellular signal transduction pathways for activation and adaptation of adenylate cyclase in Dictyostelium discoideum. Oyama M, et al. **Biochem Biophys Res Commun** 1990 Mar 16; 167(2):767–71

Characterization of three casein kinases type I from Dictyostelium discoideum. Ospina B, et al.
Biochim Biophys Acta 1990 May 22;1052(3):483–8

Cyclic GMP-activated protein kinase from Dictyostelium discoideum. Wanner R, et al. **Biochim Biophys Acta** 1990 Jul 12;1053(2–3):179–84

Cytokinin oxidase activity in the cellular slime mold, Dictyostelium discoideum. Armstrong DJ, et al.
Dev Biol 1989 Dec;136(2):491–9

Ammonia promotes accumulation of intracellular cAMP in differentiating amoebae of Dictyostelium discoideum. Riley BB, et al. **Development** 1990 Jul;109(3):715–22

Overproduction of the regulatory subunit of the cAMP-dependent protein kinase blocks the differentiation of Dictyostelium discoideum. Simon MN, et al.
EMBO J 1989 Jul;8(7):2039–43

The two oxygen-regulated subunits of cytochrome c oxidase in Dictyostelium discoideum derive from a common ancestor. Capaldi RA, et al. **FEBS Lett** 1990 Feb 12; 261(1):158–60

A role for cAMP-dependent protein kinase A in early

Dictyostelium development. Firtel RA, et al. **Genes Dev** 1990 Jan;4(1):18–28

Sulfated N-linked oligosaccharides affect secretion but are not essential for the transport, proteolytic processing, and sorting of lysosomal enzymes in Dictyostelium discoideum. Cardelli JA, et al. **J Biol Chem** 1990 May 25; 265(15):8847–53

The effects of altered N-linked oligosaccharide structures on maturation and targeting of lysosomal enzymes in Dictyostelium discoideum. Freeze HH, et al. **J Biol Chem** 1989 Nov 15;264(32):19278–86

Dictyostelium myosin light chain kinase. Purification and characterization. Tan JL, et al. **J Biol Chem** 1990 Aug 15; 265(23):13818–24

Membrane-enclosed crystals in Dictyostelium discoideum cells, consisting of developmentally regulated proteins with sequence similarities to known esterases. Bomblies L, et al. **J Cell Biol** 1990 Mar;110(3):669–79

Developing Dictyostelium cells contain the lysosomal enzyme alpha-mannosidase in a secretory granule. Lenhard JM, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2761–9

Clues to the function of Nm23 and Awd proteins in development, signal transduction, and tumor metastasis provided by studies of Dictyostelium discoideum. Liotta LA, et al. **J Natl Cancer Inst** 1990 Jul 18;82(14):1170–2

Dictyostelium nucleoside diphosphate kinase highly homologous to Nm23 and Awd proteins involved in mammalian tumor metastasis and Drosophila development. Wallet V, et al. **J Natl Cancer Inst** 1990 Jul 18; 82(14):1199–202

Pertussis toxin inhibits cAMP-induced desensitization of adenylate cyclase in Dictyostelium discoideum. Snaar-Jagalska BE, et al. **Mol Cell Biochem** 1990 Feb 9; 92(2):177–89

GENETICS

Purification of a functional recombinant myosin fragment from Dictyostelium discoideum. Ruppel KM, et al. **Ann N Y Acad Sci** 1990;582:147–55

Unequal accumulation of 26S and 17S RNAs in ribosomes during spore germination in Dictyostelium discoideum. Ramagopal S. **Can J Microbiol** 1989 Sep;35(9):850–3

Isolation and behavioral analysis of mutants defective in cytoskeletal proteins. Gerisch G, et al. **Cell Motil Cytoskeleton** 1989;14(1):75–9 (15 ref.)

Application of antisense RNA to the study of the cytoskeleton: background, principles, and a summary of results obtained with myosin heavy chain. Knecht D. **Cell Motil Cytoskeleton** 1989;14(1):92–102 (36 ref.)

Biological roles of actin-binding proteins in Dictyostelium discoideum examined using genetic techniques. Noegel AA, et al. **Cell Motil Cytoskeleton** 1989;14(1):69–74 (43 ref.)

Transcript and sequence analysis of a 5.1 kb contiguous fragment of Dictyostelium discoideum plasmid Ddp1 that contains the origin of replication and codes for several transcripts. Gurniak CB, et al. **Curr Genet** 1990 Apr; 17(4):321–5

Genetic approaches to cytoskeleton function and the control of cell motility. Segall JE, et al. **Curr Opin Cell Biol** 1989 Feb;1(1):44–50 (13 ref.)

Complementation of myosin null mutants in Dictyostelium discoideum by direct functional selection. Egelhoff TT, et al. **Dev Biol** 1990 Feb;137(2):359–67

Dictyostelium erasure mutant HI4 abnormally retains development-specific mRNAs during dedifferentiation. Kraft B, et al. **Dev Biol** 1989 Dec;136(2):363–71

Cyclic-AMP-induced elevation of intracellular pH precedes, but does not mediate, the induction of prespore differentiation in Dictyostelium discoideum. Van Lookeren Campagne MM, et al. **Development** 1989 Feb;105(2):401–6

Temperature sensitive synthesis of transfer RNAs in vivo in Saccharomyces cerevisiae. Marschalek R, et al. **EMBO J** 1990 Apr;9(4):1253–8

Optimization and in situ detection of Escherichia coli beta-galactosidase gene expression in Dictyostelium discoideum. Dingermann T, et al. **Gene** 1989 Dec 28; 85(2):353–62

A developmentally regulated and cAMP-repressible gene of Dictyostelium discoideum: cloning and expression of the gene encoding cyclic nucleotide phosphodiesterase inhibitor. Wu L, et al. **Gene** 1990 Jul 2;91(1):51–6

A spatial gradient of expression of a cAMP-regulated prespore cell-type-specific gene in Dictyostelium. Haberstroh L, et al. **Genes Dev** 1990 Apr;4(4):596–612

Selective elimination of the contact site A protein of Dictyostelium discoideum by gene disruption. Harloff C, et al. **Genes Dev** 1989 Dec;3(12A):2011–9

A developmentally regulated trans-acting factor recognizes dissimilar G/C-rich elements controlling a class of cAMP-inducible Dictyostelium genes. Hjorth AL, et al. **Genes Dev** 1990 Mar;4(3):419–32

A Dictyostelium discoideum mutant exhibiting calcium-dependent, high-level detergent resistance. Madigan SJ, et al. **J Bacteriol** 1990 May;172(5):2785–7

cAMP stimulation of Dictyostelium discoideum destabilizes the mRNA for 117 antigen. Juliani MH, et al. **J Biol Chem** 1990 Jun 5;265(16):9077–82

Functional cloning of a nucleoside diphosphate kinase from Dictyostelium discoideum. Lacombe ML, et al. **J Biol Chem** 1990 Jun 15;265(17):10012–8

cDNA-derived sequence of UMP-CMP kinase from Dictyostelium discoideum and expression of the enzyme in Escherichia coli. Wiesmüller L, et al. **J Biol Chem** 1990 Apr 15;265(11):6339–45

A single base exchange in an intron of the Dictyostelium discoideum alpha-actinin gene inhibits correct splicing of the RNA but allows transport to the cytoplasm and translation. Witke W, et al. **J Biol Chem** 1990 Jan 5; 265(1):34–9

Spore coat is altered in modB glycosylation mutants of Dictyostelium discoideum. Aparicio JG, et al. **J Cell Biochem** 1990 Apr;42(4):255–66

A rapid posttranslational myristylation of a 68-kD protein in D. discoideum. da Silva AM, et al. **J Cell Biol** 1990 Aug;111(2):401–7

A Dictyostelium discoideum mutant that missorts and oversecretes lysosomal enzyme precursors is defective in endocytosis. Ebert DL, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1445–56

Expression of Dictyostelium myosin tail segments in Escherichia coli: domains required for assembly and phosphorylation. O'Halloran TJ, et al. **J Cell Biol** 1990 Jan;110(1):63–70

Lithium ions induce prestalk-associated gene expression and inhibit prespore gene expression in Dictyostelium discoideum. Peters DJ, et al. **J Cell Sci** 1989 May;93 (Pt 1):205–10

The cyclic nucleotide phosphodiesterase gene of Dictyostelium discoideum contains three promoters specific for growth, aggregation, and late development. Faure M, et al. **Mol Cell Biol** 1990 May;10(5):1921–30

Spore coat genes SP60 and SP70 of Dictyostelium discoideum. Fosnaugh KL, et al. **Mol Cell Biol** 1989 Nov; 9(11):5215–8

Regulation of DdrasG gene expression during Dictyostelium development. Khosla M, et al. **Mol Cell Biol** 1990 Mar; 10(3):918–22

The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis-acting element and a plasmid-encoded trans-acting factor. Leiting B, et al. **Mol Cell Biol** 1990 Jul;10(7):3727–36

A pharmacologically distinct cyclic AMP receptor is responsible for the regulation of gp80 expression in Dictyostelium discoideum. Ma PC, et al. **Mol Cell Biol** 1990 Jul;10(7):3297–306

Identification of a cis-acting element controlling induction of early gene expression in Dictyostelium discoideum. May T, et al. **Mol Cell Biol** 1989 Nov;9(11):4653–9

Identification of a signal transduction response sequence element necessary for induction of a Dictyostelium discoideum gene by extracellular cyclic AMP. Pavlovic J, et al. **Mol Cell Biol** 1989 Nov;9(11):4660–9

SAS1 and SAS2, GTP-binding protein genes in Dictyostelium discoideum with sequence similarities to essential genes in Saccharomyces cerevisiae. Saxe SA, et al. **Mol Cell Biol** 1990 May;10(5):2367–78

Developmentally regulated protein-tyrosine kinase genes in Dictyostelium discoideum. Tan JL, et al. **Mol Cell Biol** 1990 Jul;10(7):3578–83

Regulation of the Discoidin I gamma gene in Dictyostelium discoideum: identification of individual promoter elements mediating induction of transcription and repression by cyclic AMP. Vauti F, et al. **Mol Cell Biol** 1990 Aug; 10(8):4080–8

Gene amplification associated with the dominant cob-354 cobalt resistance trait in Dictyostelium discoideum. Jensen SL, et al. **Mol Gen Genet** 1989 Dec;220(1):25–32

Nucleotide sequences of Dictyostelium discoideum developmentally regulated cDNAs rich in (AAC) imply proteins that contain clusters of asparagine, glutamine, or threonine. Shaw DR, et al. **Mol Gen Genet** 1989 Sep; 218(3):453–9

Developmental regulation of cell-type-enriched mRNAs in Dictyostelium discoideum. Corney AJ, et al. **Mol Microbiol** 1990 Apr;4(4):613–23

Two cyclic AMP-regulated genes from Dictyostelium discoideum encode homologous proteins. Ramji DP, et al. **Mol Microbiol** 1990 Jan;4(1):129–35

Sequence of the Dictyostelium discoideum spore coat gene SP96. Fosnaugh KL, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9489

New vectors for expression of the E.coli lacZ gene in Dictyostelium. Harwood AJ, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4292

Two separable promoters control different aspects of expression of a Dictyostelium gene. Maniak M, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3211–7

A ras-related gene from the lower eukaryote Dictyostelium that is highly conserved relative to the human rap genes. Robbins SM, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5265–9

Primary structure and regulation of vegetative specific genes of Dictyostelium discoideum. Singleton CK, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9679–92

Nucleotide sequence of V1, a ribosomal protein gene from Dictyostelium discoideum. Singleton CK. **Nucleic Acids Res** 1989 Oct 11;17(19):7989

Identification and characterization of a Dictyostelium discoideum ribosomal protein gene. Szymkowski DE, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4695–701

Nucleotide sequence of a late developmentally regulated prespore-enriched Dictyostelium discoideum gene. Widdowson DC, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8374

Copy number control and compatibility of nuclear plasmids in Dictyostelium discoideum. Hughes JE, et al. **Plasmid** 1989 Nov;22(3):215–23

Molecular complementation of a genetic marker in Dictyostelium using a genomic DNA library. Dynes JL, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7966–70

Inositol trisphosphate and diacylglycerol can differentially modulate gene expression in Dictyostelium. Ginsburg G, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9332–6

A pair of tandemly repeated genes code for gp24, a putative adhesion protein of Dictyostelium discoideum. Loomis WF, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):886–90

Conditions that alter intracellular cAMP levels affect expression of the cAMP phosphodiesterase gene in Dictyostelium. Riley BB, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4746–50

Expression and characterization of a functional myosin head fragment in Dictyostelium discoideum. Manstein DJ, et al. **Science** 1989 Nov 3;246(4930):656–8

[Rapid destroying of mRNAs in disaggregated Dictyostelium cells and effect of antibiotics] Zhou SN. **I Chuan Hsueh Pao** 1989;16(6):455–62 (Eng. Abstr.) (Chi)

GROWTH & DEVELOPMENT

The regulation of membrane fusion during sexual development in Dictyostelium discoideum. O'Day DH, et al. **Biochem Cell Biol** 1989 Jul;67(7):321–6 (55 ref.)

Control of mRNA stability during development of Dictyostelium discoideum. Mangiarotti G. **Biochem Soc Symp** 1989;55:77–89

Origins of the prestalk-prespore pattern in Dictyostelium development. Williams JG, et al. **Cell** 1989 Dec 22; 59(6):1157–63

Purification and characterization of gp138, a cell surface glycoprotein involved in the sexual cell fusion of Dictyostelium discoideum. Suzuki K, et al. **Cell Differ Dev** 1990 Apr;30(1):35–42

Extracellular signals and intracellular transduction pathways regulating Dictyostelium development. Williams JG. **Curr Opin Cell Biol** 1989 Dec;1(6):1132–8 (41 ref.)

A pleiotropic defect in cAMP-regulated gene expression in the Dictyostelium agg- mutant synag 7. Drummond IA, et al. **Dev Biol** 1990 Jul;140(1):225–8

New roles for DIF? Effects on early development in Dictyostelium. Wurster B, et al. **Dev Biol** 1990 Jul; 140(1):189–95

Changes in cell surface glycoproteins during Dictyostelium development analysed using monoclonal antibodies. Crandall IE, et al. **Development** 1989 Sep;107(1):87–94

Control of cell type proportions by a secreted factor in Dictyostelium discoideum. Inouye K. **Development** 1989 Nov;107(3):605–9

G-protein-linked signal transduction systems control development in Dictyostelium. Johnson RL, et al. **Development** 1989;107 Suppl:75–80

Morphogen hunting in Dictyostelium. Kay RR, et al. **Development** 1989;107 Suppl:81–90 (64 ref.)

Analysis of specific mRNA destabilization during Dictyostelium development. Mangiarotti G, et al. **Development** 1989 Jul;106(3):473–81

Biochemical differentiation in a mutant of Dictyostelium discoideum defective in cyclic AMP chemotaxis and in intercellular cohesion. Srinivas UK, et al. **Development** 1989 Sep;107(1):153–63

Formation and anatomy of the prestalk zone of Dictyostelium. Williams JG, et al. **Development** 1989;107 Suppl:91–7

Developmental changes in protein composition and the actin-binding protein ponticulin in Dictyostelium discoideum plasma membranes purified by an improved method. Ingalls HM, et al. **Differentiation** 1989 Aug; 41(2):87–98

Constitutive overexpression of the contact site A glycoprotein enables growth-phase cells of Dictyostelium discoideum to aggregate. Faix J, et al. **EMBO J** 1990 Sep; 9(9):2709–16

Surface cAMP receptors mediate multiple responses during development in Dictyostelium: evidenced by antisense mutagenesis. Sun TJ, et al. **J Cell Biol** 1990 May; 110(5):1549–54

Expression and organization of BP74, a cyclic AMP-regulated gene expressed during Dictyostelium discoideum development. Hopkinson SB, et al. **Mol Cell Biol** 1989 Oct;9(10):4170–8

Cell-cell interactions in Dictyostelium development. Devreotes P. **Trends Genet** 1989 Aug;5(8):242–5 (33 ref.)

METABOLISM

Effects of DNA and synthetic oligodeoxyribonucleotides on the binding properties of a cGMP-binding protein from Dictyostelium discoideum. Parissenti AM, et al. **Biochim Biophys Acta** 1990 Sep 3;1040(2):294–300

Identification of an octapeptide involved in homophilic interaction of the cell adhesion molecule gp80 of dictyostelium discoideum. Kamboj RK, et al. **Cell** 1989 Nov 17;59(4):615–25

Isolation of an aggregation-less mutant of Dictyostelium discoideum with the expression of contact site A glycoprotein. Yoshida M, et al. **Cell Struct Funct** 1989 Oct; 14(5):625–36

Cytoplasmic acidification facilitates but does not mediate DIF-induced prestalk gene expression in Dictyostelium discoideum. Wang M, et al. **Dev Biol** 1990 Jul;140(1):182–8

Ca++ antagonists distinguish different requirements for cAMP-mediated gene expression in the cellular slime mold, Dictyostelium discoideum. Blumberg DD, et al. **Differentiation** 1989 Jul;41(1):14–21

Analysis of plasma membrane protein changes in Dictyostelium discoideum during concanavalin A induced receptor redistribution using two-dimensional gel electrophoresis. Patton WF, et al. **Electrophoresis** 1990 Jan; 11(1):79–85

Alpha-actinin synthesis can be modulated by antisense probes and is autoregulated in non-muscle cells. Schulze H, et al. **EMBO J** 1989 Dec 1;8(12):3587–93

Capping of Con A receptors and actin distribution are influenced by disruption of microtubules in Dictyostelium discoideum. de Priester W, et al. **Eur J Cell Biol** 1990 Feb; 51(1):23–32

Characterization of a glycosyl-phosphatidylinositol degrading activity in Dictyostelium discoideum membranes. da Silva AM, et al. **Exp Cell Res** 1989 Dec; 185(2):464–72

Identification of a high-affinity Ca2+ pump associated with endocytotic vesicles in Dictyostelium discoideum. Milne JL, et al. **Exp Cell Res** 1989 Nov;185(1):21–32

Replacement of threonine residues by serine and alanine in a phosphorylatable heavy chain fragment of Dictyostelium myosin II. Lück-Vielmetter D, et al. **FEBS Lett** 1990 Aug 20;269(1):239–43

Isolation of an abundant 50,000-dalton actin filament bundling protein from Dictyostelium amoebae. Demma M, et al. **J Biol Chem** 1990 Feb 5;265(4):2286–91

Localization of functional domains of the cAMP chemotactic receptor of Dictyostelium discoideum. Tao YP, et al. **J Biol Chem** 1990 Sep 15;265(26):15584–9

Cell-free N-glycosylation in Dictyostelium discoideum: analysis of wild-type and mutants defective in lipid-linked oligosaccharide biosynthesis. Freeze HH, et al. **J Cell Biochem** 1990 May;43(1):27–42

Dictyostelium discoideum plasma membranes contain an actin-nucleating activity that requires ponticulin, an integral membrane glycoprotein. Shariff A, et al. **J Cell Biol** 1990 Mar;110(3):681–92

Inositol tris- and polyphosphate formation during chemotaxis of Dictyostelium. Europe-Finner GN, et al. **J Cell Sci** 1989 Aug;93 (Pt 4):585–92

Regulatory signals affecting a selective loss of mRNA in Dictyostelium discoideum. Hassanain HH, et al. **J Cell Sci** 1989 Nov;94 (Pt 3):501–9

Dictyostelium discoideum mutant synag 7 with altered G-protein-adenylate cyclase interaction. Snaar-Jagalska BE, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):287–94

Stepwise phosphorylation of myo-inositol leading to myo-inositol hexakisphosphate in Dictyostelium. Stephens LR, et al. **Nature** 1990 Aug 9;346(6284):580–3

In vivo receptor-mediated phosphorylation of a G protein in Dictyostelium. Gundersen RE, et al. **Science** 1990 May 4;248(4955):591–3

Phosphorylation of ribosomal protein S6 is dependent on cyclic AMP in Dictyostelium discoideum. Silva AM, et al. **Second Messengers Phosphoproteins** 1988–89; 12(5–6):271–80

[Phosphorylation of ribosomal proteins in higher and lower Eukaryotae] Jakubowicz T. **Postepy Biochem** 1989; 35(3):303–10 (58 ref.) (Pol)

PHYSIOLOGY

The autoinhibitor of cell fusion in Dictyostelium inhibits calmodulin. Lydan MA, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1176–81

Properties of three different ion channels in the plasma membrane of the slime mold Dictyostelium discoideum. Müller U, et al. **Biochim Biophys Acta** 1990 Jul 24; 1026(2):204–12

Methyl phosphonate as a 31P-NMR probe for intracellular pH measurements in Dictyostelium amoebae. Satre M, et al. **Biochimie** 1989 Aug;71(8):941–8

Transduction of the chemotactic signal to the actin cytoskeleton of Dictyostelium discoideum. Hall AL, et al. **Dev Biol** 1989 Dec;136(2):517–25

Cyclic AMP waves during aggregation of Dictyostelium amoebae. Tyson JJ, et al. **Development** 1989 Jul; 106(3):421–6 (39 ref.)

Conditions that elevate intracellular cyclic AMP levels promote spore formation in Dictyostelium. Riley BB, et al. **Differentiation** 1989 Jul;41(1):5–13

An anticarbohydrate monoclonal antibody inhibits cell-cell adhesion in many species of Dictyostelium but not of Polysphondylium. Springer WR, et al. **Exp Cell Res** 1990 Feb;186(2):197–202

Identification of actin nucleation activity and polymerization inhibitor in ameboid cells: their regulation by chemotactic stimulation. Hall AL, et al. **J Cell Biol** 1989 Nov; 109(5):2207–13

cAMP-mediated inhibition of intracellular particle movement and actin reorganization in Dictyostelium. Wessels D, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2841–51

Caffeine, an inhibitor of endocytosis in Dictyostelium discoideum amoebae. Gonzalez C, et al. **J Cell Physiol** 1990 Sep;144(3):408–15

Changes in cyclic AMP receptor properties during adaptation in Dictyostelium discoideum. Ludérus ME, et al. **J Cell Sci** 1990 Apr;95 (Pt 4):623–9

Myosin I is located at the leading edges of locomoting Dictyostelium amoebae. Fukui Y, et al. **Nature** 1989 Sep 28;341(6240):328–31

Capping of surface receptors and concomitant cortical tension are generated by conventional myosin. Pasternak C, et al. **Nature** 1989 Oct 12;341(6242):549–51

G protein-linked signal transduction in aggregating Dictyostelium. Pitt GS, et al. **Soc Gen Physiol Ser** 1990; 45:125–31 (19 ref.)

ULTRASTRUCTURE

Subcellular distribution of ribosomal proteins in Dictyostelium discoideum. Ramagopal S. **Biochem Cell Biol** 1990 May;68(5):838–45

Length distribution of F-actin in Dictyostelium discoideum. Podolski JL, et al. **J Biol Chem** 1990 Jan 25;265(3):1312–8

Structure and function of the cytoskeleton of a Dictyostelium myosin-defective mutant. Fukui Y, et al. **J Cell Biol** 1990 Feb;110(2):367–78

Myosin II heavy chain null mutant of Dictyostelium exhibits defective intracellular particle movement. Wessels D, et al. **J Cell Biol** 1990 Sep;111(3):1137–48

Cell adhesion to hydroxyl groups of a monolayer film. Owens NF, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):269–79

Cytoskeletal similarities [letter] Rupeš I. **Nature** 1990 May 10;345(6271):119

DICUMAROL see **BISHYDROXYCOUMARIN**

DICYCLOHEXYLCARBODIIMIDE see under **CARBODIIMIDES**

DICYCLOMINE see under **CYCLOHEXANECARBOXYLIC ACIDS**

DIDELPHIS see **OPOSSUMS**

DIDEOXYADENOSINE

Structures of two dideoxynucleosides: 2',3'-dideoxyadenosine and 2',3'-dideoxycytidine. Silverton JV, et al. **Acta Crystallogr C** 1988 Feb 15;44 (Pt 2):321–4

ANALOGS & DERIVATIVES

2-halo-2',3'-dideoxyadenosines: metabolically stable dideoxynucleosides with activity against the human immunodeficiency virus (HIV). Carson DA, et al. **Adv Exp Med Biol** 1989;253B:395–8

Adenylate cyclase blockers dissociate PTH-stimulated bone resorption from cAMP production. Reid IR, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E708–14

Synthesis and structure-activity relationships of 6-substituted 2',3'-dideoxypurine nucleosides as potential anti-human immunodeficiency virus agents. Chu CK, et al. **J Med Chem** 1990 Jun;33(6):1553–61

METABOLISM

Uptake of 2',3'-dideoxyadenosine in human immunodeficiency virus-infected and noninfected human cells. Agarwal RP, et al. **AIDS Res Hum Retroviruses** 1989 Oct;5(5):541–50

PHARMACOKINETICS

Pharmacokinetics of 2',3'-dideoxyadenosine and 2',3'-dideoxyinosine in patients with severe human immunodeficiency virus infection. Hartman NR, et al. **Clin Pharmacol Ther** 1990 May;47(5):647–54

Disposition of 2',3'-dideoxyadenosine and 2',3'-dideoxyinosine in mice. el Dareer SM, et al. **Invest New Drugs** 1989 Jul;7(2–3):139–46

2'-Fluoro-2',3'-dideoxyarabinosyladenine: a metabolically stable analogue of the antiretroviral agent 2',3'-dideoxyadenosine. Masood R, et al. **Mol Pharmacol** 1990 Apr;37(4):590–6

TOXICITY

A comparison of three nucleoside analogs with anti-retroviral activity on immune and hematopoietic functions in mice: in vitro toxicity to precursor cells and microstromal environment. Luster MI, et al. **Toxicol Appl Pharmacol** 1989 Nov;101(2):328–39

2',3'-DIDEOXYADENOSINE see **DIDEOXYADENOSINE**

DIDEOXYCYTIDINE

Structures of two dideoxynucleosides: 2',3'-dideoxyadenosine and 2',3'-dideoxycytidine. Silverton JV, et al. **Acta Crystallogr C** 1988 Feb 15;44 (Pt 2):321–4

ADMINISTRATION & DOSAGE

Human red blood cells as bioreactors for the release of 2',3'-dideoxycytidine, an inhibitor of HIV infectivity. Magnani M, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):446–52

Direct cerebrospinal fluid delivery of an antiretroviral agent using multivesicular liposomes. Kim S, et al. **J Infect Dis** 1990 Sep;162(3):750–2

ADVERSE EFFECTS

Ototoxicity associated with dideoxycytidine [letter] Powderly WG, et al. **Lancet** 1990 May 5;335(8697):1106

ANALOGS & DERIVATIVES

Studies on 2',3'-dideoxy-2',3'-didehydropyrimidine nucleosides. II. N4-benzoyl-2',3'-dideoxy-2',3'-didehydrocytidine as a prodrug of 2',3'-dideoxy-2',3'-didehydrocytidine (DDCN). Kawaguchi T, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2547–9

Dermatologic complications associated with administration of 2',3'-dideoxycytidine in patients with human immunodeficiency virus infection. McNeely MC, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1213–7

Reversed-phase liquid chromatographic determination of 2',3'-dideoxycytidine in human blood samples. Magnani M, et al. **J Chromatogr** 1989 Jun 30;491(1):215–20

Synthesis and anti-HIV activity of several 2'-fluoro-containing pyrimidine nucleosides. Sterzycki RZ, et al. **J Med Chem** 1990 Aug;33(8):2150–7

Synthesis and anti-HIV-1 activity of 2'-"up"-fluoro analogues of active anti-AIDS nucleosides 3'-azido-3'-deoxythymidine (AZT) and 2',3'-dideoxycytidine (DDC). Watanabe KA, et al. **J Med Chem** 1990 Aug;33(8):2145–50

Reversible axonal neuropathy from the treatment of AIDS and related disorders with 2',3'-dideoxycytidine (ddC). Dubinsky RM, et al. **Muscle Nerve** 1989 Oct;12(10):856–60

METABOLISM

Dideoxycytidine metabolism in wild type and mutant CEM cells deficient in nucleoside transport or deoxycytidine kinase. Ullman B. **Adv Exp Med Biol** 1989;253B:415–20

Cross-resistance to anti-HIV nucleoside analogs in multidrug-resistant human cells. Yusa K, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):986–90

PHARMACOKINETICS

Pharmacodynamics of 2',3'-dideoxycytidine: an inhibitor of human immunodeficiency virus. Broder S. **Am J Med** 1990 May 21;88(5B):2S–7S (40 ref.)

2',3'-dideoxycytidine permeation of the human erythrocyte membrane. Magnani M, et al. **Biochem Int** 1989 Aug; 19(2):227–34

Dideoxycytidine permeation and salvage by mouse leukemia cells and human erythrocytes. Plagemann PG, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3469–75

A pilot study of the bioavailability and pharmacokinetics of 2',3'-dideoxycytidine in patients with AIDS or AIDS-related complex. Gustavson LE, et al. **J Acquir Immune Defic Syndr** 1990;3(1):28–31

Pharmacokinetics of 2',3'-dideoxycytidine in rats: application to interspecies scale-up. Ibrahim SS, et al. **J Pharm Pharmacol** 1989 Dec;41(12):829–34

Preliminary pharmacokinetics of 2',3'-dideoxycytidine in neonatal goats. Williams RJ, et al. **J Vet Pharmacol Ther** 1989 Sep;12(3):334–9

PHARMACOLOGY

The antiretroviral and cytostatic activity, and metabolism of 3'-azido-2',3'-dideoxythymidine, 3'-fluoro-2',3'-dideoxythymidine and 2',3'-dideoxycytidine are highly cell type-dependent. Balzarini J, et al. **Adv Exp Med Biol** 1989;253B:407–13

Inhibition of HIV-1 in monocyte/macrophage cultures by 2',3'-dideoxycytidine-5'-triphosphate, free and in liposomes. Szebeni J, et al. **AIDS Res Hum Retroviruses** 1990 May;6(5):691–702

In vitro and in vivo evidence that the antiviral activity of 2',3'-dideoxycytidine is target cell dependent in a feline retrovirus animal model. Polas PJ, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1414–21

2',3'-Dideoxycytidine toxicity in cultured human CEM T lymphoblasts: effects of combination with 3'-azido-3'-deoxythymidine and thymidine. Törnevik Y, et al. **Mol Pharmacol** 1990 Aug;38(2):237–43

THERAPEUTIC USE

Dideoxycytidine (ddC): a potent antiretroviral agent for human immunodeficiency virus infection. A symposium. February 3, 1990, San Francisco, California. Proceedings. **Am J Med** 1990 May 21;88(5B):1S–33S

Salvage therapy for zidovudine-intolerant HIV-infected patients with alternating and intermittent regimens of zidovudine and dideoxycytidine. Bozzette SA, et al. **Am J Med** 1990 May 21;88(5B):24S–26S (17 ref.)

Dideoxycytidine: current clinical experience and future prospects. A summary. Broder S, et al. **Am J Med** 1990 May 21;88(5B):31S–33S (12 ref.)

Dideoxycytidine (ddC): a potent antiretroviral agent for human immunodeficiency virus infection. An introduction. Broder S. **Am J Med** 1990 May 21;88(5B):1S

AIDS Clinical Trials Group: phase I/II study of combination 2',3'-dideoxycytidine and zidovudine in patients with acquired immunodeficiency syndrome (AIDS) and advanced AIDS-related complex. Meng TC, et al.

Am J Med 1990 May 21;88(5B):27S–30S (19 ref.)
Safety and tolerance of dideoxycytidine as a single agent. Results of early-phase studies in patients with acquired immunodeficiency syndrome (AIDS) or advanced AIDS-related complex. Study Group of the AIDS Clinical Trials Group of the National Institute of Allergy and Infectious Diseases. Merigan TC, et al. Am J Med 1990 May 21;88(5B):11S–15S (10 ref.)
Alternating and intermittent regimens of zidovudine (3'-azido-3'-deoxythymidine) and dideoxycytidine (2',3'-dideoxycytidine) in the treatment of patients with acquired immunodeficiency syndrome (AIDS) and AIDS-related complex. Skowron G, et al. Am J Med 1990 May 21;88(5B):20S–23S (11 ref.)
Toxicity and efficacy of 2',3'-dideoxycytidine in clinical trials of pigtailed macaques infected with simian retrovirus type 2. Tsai CC, et al. Antimicrob Agents Chemother 1989 Nov; 33(11):1908–14
Inhibition of duck hepatitis B virus replication by 2',3'-dideoxycytidine. A potent inhibitor of reverse transcriptase. Kassianides C, et al. Gastroenterology 1989 Nov;97(5):1275–80
Drugs for HIV infection. Med Lett Drugs Ther 1990 Feb 9;31(811):11–3
New AIDS drug [news] Minn Med 1990 Jul;73(7):48
New treatment being tested against AIDS and ARC [news] Oncology (Williston Park) 1987 Sep;1(7):11
AZT/ddC combination may benefit AIDS sufferers [news] Oncology (Williston Park) 1989 Jan;3(1):107
[AIDS: small, life-prolonging steps. Antiviral therapy is more efficient—a decrease in side effects] Mahler W. Fortschr Med 1989 Sep 10;107(26):18–9 (Ger)

TOXICITY

A comparison of three nucleoside analogs with anti-retroviral activity on immune and hematopoietic functions in mice: in vitro toxicity to precursor cells and microstromal environment. Luster MI, et al. Toxicol Appl Pharmacol 1989 Nov;101(2):328–39

2',3'-DIDEOXYCYTIDINE see **DIDEOXYCYTIDINE**

DIDEOXYINOSINE

ADMINISTRATION & DOSAGE

Dideoxyinosine for HIV infection [news] Am Fam Physician 1989 Oct;40(4):324
Once-daily administration of 2',3'-dideoxyinosine (ddI) in patients with the acquired immunodeficiency syndrome or AIDS-related complex. Results of a Phase I trial [see comments] Cooley TP, et al. N Engl J Med 1990 May 10;322(19):1340–5 Comment in: N Engl J Med 1990 May 10;322(19):1386–8.

ADVERSE EFFECTS

Long-term toxicity/activity profile of 2',3'-dideoxyinosine in AIDS or AIDS-related complex. Yarchoan R, et al. Lancet 1990 Sep 1;336(8714):526–9
AIDS treatment: 'parallel track' for ddI [news] McGourty C. Nature 1989 Oct 12;341(6242):474

ANALYSIS

High-performance liquid chromatographic method for analysis of 2',3'-dideoxyinosine in human body fluids. Carpen ME, et al. J Chromatogr 1990 Mar 16;526(1):69–75

PHARMACOKINETICS

Pharmacokinetics of 2',3'-dideoxyadenosine and 2',3'-dideoxyinosine in patients with severe human immunodeficiency virus infection. Hartman NR, et al. Clin Pharmacol Ther 1990 May;47(5):647–54
Disposition of 2',3'-dideoxyadenosine and 2',3'-dideoxyinosine in mice. el Dareer SM, et al. Invest New Drugs 1989 Jul;7(2–3):139–46
Uptake kinetics of 2',3'-dideoxyinosine into brain and cerebrospinal fluid of rats: intravenous infusion studies. Anderson BD, et al. J Pharmacol Exp Ther 1990 Apr; 253(1):113–8

PHARMACOLOGY

Overview of the preclinical development of an antiretroviral drug, 2',3'-dideoxyinosine. McGowan JJ, et al. Rev Infect Dis 1990 Jul–Aug;12 Suppl 5:S513–20; discussion S520–1 (37 ref.)

SUPPLY & DISTRIBUTION

Distribution of experimental AIDS drug DDI increases [news] N Y State J Med 1989 Dec;89(12):695
Trials and tribulations of AIDS drug testing [news] Palca J. Science 1990 Mar 23;247(4949 Pt 1):1406

THERAPEUTIC USE

Expanded availability of dideoxyinosine (ddI) for AIDS [news] J Am Osteopath Assoc 1989 Dec;89(12):1507–8, 1511
From the Food and Drug Administration. Nightingale SL. JAMA 1989 Nov 10;262(18):2503
Compassionate release of anti-HIV drugs [letter; comment] Lancet 1989 Dec 9;2(8676):1399–400 Comment on: Lancet 1989 Nov 4;2(8671):1079–80.
"Compassionate" release of DDI [editorial] [see comments] Lancet 1989 Nov 4;2(8671):1079–80 Comment in: Lancet 1989 Dec 9;2(8676):1399–400.
Drugs for HIV infection. Med Lett Drugs Ther 1990 Feb 9;31(811):11–3
AIDS: The good news and the bad [news] Minn Med 1989 Sep;72(9):533–4
Clinical response to dideoxyinosine in patients with HIV infection resistant to zidovudine [letter] Bach MC. N Engl J Med 1990 Jul 26;323(4):275
ddI—a good start, but still phase I [editorial; comment] Fauci AS. N Engl J Med 1990 May 10;322(19):1386–8 Comment on: N Engl J Med 1990 May 10;322(19):1333–40. Comment on: N Engl J Med 1990 May 10;322(19):1340–5.
2',3'-dideoxyinosine (ddI) in patients with the acquired immunodeficiency syndrome or AIDS-related complex. A phase I trial [see comments] Lambert JS, et al. N Engl J Med 1990 May 10;322(19):1333–40 Comment in: N Engl J Med 1990 May 10;322(19):1386–8.
Controversy grows over parallel track for experimental AIDS drug [news] N Y State J Med 1990 Mar;90(3):169
Advances in the management of HIV disease: focus on didanosine (ddI). A symposium. Houston, Texas, 18 September 1989. Proceedings. Rev Infect Dis 1990 Jul–Aug; 12 Suppl 5:S499–576
Treatment of AIDS and AIDS-related complex with 2',3'-dideoxyinosine given once daily. Cooley TP, et al. Rev Infect Dis 1990 Jul–Aug;12 Suppl 5:S552–60
2',3'-Dideoxyinosine in patients with AIDS or AIDS-related complex. Dolin R, et al. Rev Infect Dis 1990 Jul–Aug;12 Suppl 5:S540–9; discussion S549–51
Overview of phase I trials of 2',3'-dideoxyinosine (ddI) conducted on adult patients. Rozencweig M, et al. Rev Infect Dis 1990 Jul–Aug;12 Suppl 5:S570–5
Phase I study of 2',3'-dideoxyinosine: experience with 19 patients at New York University Medical Center. Valentine FT, et al. Rev Infect Dis 1990 Jul–Aug;12 Suppl 5:S534–9
The National Cancer Institute phase I study of 2',3'-dideoxyinosine administration in adults with AIDS or AIDS-related complex: analysis of activity and toxicity profiles. Yarchoan R, et al. Rev Infect Dis 1990 Jul–Aug; 12 Suppl 5:S522–33
Government ddI trials on trial [news] Palca J. Science 1989 Dec 8;246(4935):1244

TOXICITY

Bone marrow toxicity of dideoxyinosine [letter] Molina JM, et al. N Engl J Med 1989 Nov 23;321(21):1478

2',3'-DIDEOXYINOSINE see **DIDEOXYINOSINE**

DIDEOXYNUCLEOSIDES

Kinetics and mechanism of DNA repair. Preparation, purification and some properties of caged dideoxynucleoside triphosphates. Meldrum RA, et al. Biochem J 1990 Mar 15;266(3):885–90
Simplified RNA sequencing using dideoxy chain termination. Carpenter CD, et al. Biotechniques 1990 Jan;8(1):26–7
Dideoxy sequencing of RNA using reverse transcriptase. Hahn CS, et al. Methods Enzymol 1989;180:121–30
Structure of the anti-human immunodeficiency virus agent 3'-fluoro-3'-deoxythymidine and electronic charge calculations for 3'-deoxythymidines. Camerman N, et al. Proc Natl Acad Sci U S A 1990 May;87(9):3534–7
DNA dideoxy sequencing with T7 DNA polymerase: improved sequencing data by the addition of manganese chloride. Kristensen T, et al. Trends Genet 1990 Jan; 6(1):2–3

ANALYSIS

Bathophenanthroline-Ru(II) complexes as nonradioactive labels for dideoxy DNA sequencing. Bannwarth W. Anal Biochem 1989 Sep;181(2):216–9

BLOOD

Analytical method for the quantification of 2',3'-didehydro-3'-deoxythymidine, a new anti-human immunodeficiency virus (HIV) agent, by high-performance liquid chromatography (HPLC) and ultraviolet (UV) detection in rat and monkey plasma. Kaul S, et al. Pharm Res 1989 Oct;6(10):895–9

CHEMICAL SYNTHESIS

Synthesis and structure-activity relationships of 6-substituted 2',3'-dideoxypurine nucleosides as potential anti-human immunodeficiency virus agents. Chu CK, et al. J Med Chem 1990 Jun;33(6):1553–61
Synthesis, antiretrovirus effects, and phosphorylation kinetics of 3'-isocyano-3'-deoxythymidine and 3'-isocyano-2',3'-dideoxyuridine. Hiebl J, et al. J Med Chem 1990 Feb;33(2):845–8
5'-O-phosphonomethyl-2',3'-dideoxynucleosides: synthesis and anti-HIV activity. Jie L, et al. J Med Chem 1990 Sep; 33(9):2481–7
Synthesis and anti-HIV evaluation of 2',3'-dideoxyribo-5-chloropyrimidine analogues: reduced toxicity of 5-chlorinated 2',3'-dideoxynucleosides. Van Aerschot A, et al. J Med Chem 1990 Jun;33(6):1833–9
The synthesis of branched-chain 3'-C-cyanomethyl-2',3'-dideoxy sugar nucleosides of adenine as potential inhibitors of the human immunodeficiency virus. Halmos T, et al. Nucleic Acids Res 1989 Oct 11;17(19):7663–70

METABOLISM

The metabolism of 3'-azido-2',3'-dideoxyguanosine in CEM cells. Karlsson A, et al. Biochem Biophys Res Commun 1990 Jan 15;166(1):273–9
Cellular pharmacology of 2',3'-didehydro-2',3'-dideoxythymidine (D4T) in human peripheral blood mononuclear cells. Zhu Z, et al. Biochem Pharmacol 1990 May 1;39(9):R15–9
Hydroxyurea increases the phosphorylation of 3'-fluorothymidine and 3'-azidothymidine in CEM cells. Karlsson A, et al. Eur J Biochem 1989 Dec 22; 186(3):689–94
Removal of 2',3'-dideoxynucleotide residues from injected DNA in Xenopus laevis oocytes. Legerski RJ, et al. Mutat Res 1990 Jul;236(1):1–7

PHARMACOKINETICS

Pharmacokinetics of 3'-fluoro-3'-deoxythymidine and 3'-deoxy-2',3'-didehydrothymidine in rhesus monkeys. Schinazi RF, et al. Antimicrob Agents Chemother 1990 Jun; 34(6):1214–9
Disposition in animals of a new anti-HIV agent: 2',3'-didehydro-3'-deoxythymidine. Russell JW, et al. Drug Metab Dispos 1990 Mar–Apr;18(2):153–7

PHARMACOLOGY

The antiretroviral and cytostatic activity, and metabolism of 3'-azido-2',3'-dideoxythymidine, 3'-fluoro-2',3'-dideoxythymidine and 2',3'-dideoxycytidine are highly cell type-dependent. Balzarini J, et al. Adv Exp Med Biol 1989;253B:407–13
Reversal of azidothymidine-induced bone marrow suppression by 2',3'-dideoxythymidine as studied by hemopoietic clonal culture. Yoshida Y, et al. AIDS Res Hum Retroviruses 1990 Jul;6(7):929–32
Activities of (-)-carbovir and 3'-azido-3'-deoxythymidine against human immunodeficiency virus in vitro. Carter SG, et al. Antimicrob Agents Chemother 1990 Jun; 34(6):1297–300
In vitro inhibition of the infectivity and replication of human immunodeficiency virus type 1 by combination of antiretroviral 2',3'-dideoxynucleosides and virus-binding inhibitors. Hayashi S, et al. Antimicrob Agents Chemother 1990 Jan;34(1):82–8
Structure-activity relationships of fluorinated nucleoside analogs and their synergistic effect in combination with phosphonoformate against human immunodeficiency virus type 1. Koshida R, et al. Antimicrob Agents Chemother 1989 Dec;33(12):2083–8
Induction of the SOS response in Escherichia coli by azidothymidine and dideoxynucleosides. Mamber SW, et al. Antimicrob Agents Chemother 1990 Jun;34(6):1237–43
Resolution of racemic carbovir and selective inhibition of human immunodeficiency virus by the (-) enantiomer. Vince R, et al. Biochem Biophys Res Commun 1990 May 16;168(3):912–6
Effect of 3'-deoxythymidin-2'-ene (d4T) on nucleoside metabolism in H9 cells. Marongiu ME, et al. Biochem Pharmacol 1990 May 15;39(10):1523–8
Sensitivity of CFU-GM from normal human bone marrow and leukaemic clonogenic cells (CFU-L) from blood of patients with myelogenous leukaemia to 3'-deoxy-3'-fluorothymidine in comparison to 3'-azido-3'-deoxythymidine. Blau IW, et al. Blut 1989 Nov;59(5):455–7
The effect of DNA polymerase inhibitors on the cytotoxicity of cisplatin in human ovarian carcinoma cells. Katz EJ, et al. Cancer Commun 1990;2(4):159–64
Synthesis and in vitro evaluation of some modified 4-thiopyrimidine nucleosides for prevention or reversal of AIDS-associated neurological disorders. Palomino E, et al. J Med Chem 1990 Jan;33(1):258–63
Synthesis and anti-HIV activity of carbocyclic 2',3'-didehydro-2',3'-dideoxy 2,6-disubstituted purine nucleosides. Vince R, et al. J Med Chem 1990 Jan; 33(1):17–21
Cytostatic effects of 2',3'-dideoxyribonucleosides on transformed human hemopoietic cell lines. Blakley RL, et al. Mol Pharmacol 1990 Feb;37(2):328–32
Terminal transferase as a therapeutic target in leukemia cells. McCaffrey R, et al. Prog Clin Biol Res 1990;352:409–16
Inhibition of DNA excision by DNA polymerase-alpha inhibitor in UV-damaged HeLa cells. Joe CO, et al. Toxicol Lett 1990 Aug;52(3):253–9
[Inhibition of HIV reproduction in cell culture by 5'-phosphonates of 3'-azido-2',3'-dideoxynucleosides] Tarusova NB, et al. Mol Biol (Mosk) 1989 Nov–Dec; 23(6):1716–24 (Eng. Abstr.) (Rus)

THERAPEUTIC USE

Treatment of human immunodeficiency virus-infected infants and young children with dideoxynucleosides. Pizzo PA. Am J Med 1990 May 21;88(5B):16S–19S (13 ref.)
NIH conference. Antiretroviral therapy in AIDS. Broder S, et al. Ann Intern Med 1990 Oct 15;113(8):604–18 (173 ref.)

Comparison of in vitro biological properties and mouse toxicities of three thymidine analogs active against human immunodeficiency virus. Mansuri MM, et al. **Antimicrob Agents Chemother** 1990 Apr;34(4):637–41

TOXICITY

In vitro myelotoxicity of 2',3'-dideoxynucleosides on human hematopoietic progenitor cells. Du DL, et al. **Exp Hematol** 1990 Aug;18(7):832–6

2',3'-DIDEOXYNUCLEOSIDES see **DIDEOXYNUCLEOSIDES**

DIDEOXYRIBONUCLEOSIDES see **DIDEOXYNUCLEOSIDES**

DIDMOAD see **WOLFRAM SYNDROME**

DIELDRIN

Susceptibility status of Culex vishnui to DDT and dieldrin in Deoria, Uttar Pradesh. Yadava RL, et al. **J Commun Dis** 1989 Jun;21(2):137–8

ANALYSIS

Occurrence of organochlorine residues in Australian meat. Corrigan PJ, et al. **Aust Vet J** 1990 Feb;67(2):56–8

Stimulation of aldrin and dieldrin loss from soils treated with carbon amendments and saturated-ring analogues. Hugenholtz P, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):223–7

Organochlorine compounds in human adipose tissue from north Texas. Adeshina F, et al. **J Toxicol Environ Health** 1990;29(2):147–56

BLOOD

Comparison of analytical methods for determination of dieldrin (HEOD) in blood. Robinson J, et al. **Arch Environ Health** 1967 Jul;15(1):67–9

TOXICITY

Substrate-affinity relationship of succinate dehydrogenase in brain of albino rat during dieldrin toxicity. Reddy GR, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):141–4

Comparison of assays for gap junctional communication using human embryocarcinoma cells exposed to dieldrin. Loch-Caruso R, et al. **Fundam Appl Toxicol** 1990 Jul; 15(1):63–74

Suppression of avidin processing and presentation by mouse macrophages after sublethal exposure to dieldrin. Krzystyniak K, et al. **Immunopharmacology** 1989 Nov–Dec; 18(3):157–66

DIENCEPHALON

Vertical one-and-a-half syndrome. Supranuclear downgaze paralysis with monocular elevation palsy. Deleu D, et al. **Arch Neurol** 1989 Dec;46(12):1361–3

Diencephalic syndrome of emaciation in an adult associated with a suprasellar craniopharyngioma—a case report. Sharma RR, et al. **Br J Neurosurg** 1990;4(1):77–80

Diencephalic amnesia. Graff-Radford NR, et al. **Brain** 1990 Feb;113 (Pt 1):1–25

Narcolepsy associated with lesions of the diencephalon. Aldrich MS, et al. **Neurology** 1989 Nov;39(11):1505–8

[Hypothalamic glioma with diencephalic syndrome and following precocious puberty—a case report] Baba H, et al. **No To Shinkei** 1989 Oct;41(10):1029–35 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Russel's syndrome: diencephalic tumor in a child] Da Motta LA, et al. **Arq Neuropsiquiatr** 1990 Mar;48(1):107–12 (Eng. Abstr.) **(Por)**

ANALYSIS

Neuropeptide Y localization in telencephalic and diencephalic structures of the ground squirrel brain. Reuss S, et al. **Am J Anat** 1990 Jun;188(2):163–74

Presence of dopamine-immunoreactive cell bodies in the catecholaminergic group A15 of the sheep brain. Tillet Y, et al. **Histochemistry** 1990;93(3):327–33

Synaptic organization of septal projections in the rat medial habenula: a wheat germ agglutinin–horseradish peroxidase and immunohistochemical study. Kawaja MD, et al. **Synapse** 1990;6(1):45–54

ANATOMY & HISTOLOGY

Acetylcholinesterase-histochemical differential staining of subdivisions within the nucleus rotundus in the chick. Martínez-de-la-Torre M, et al. **Anat Embryol (Berl)** 1990; 181(2):129–35

Structural and functional organization of a diencephalic sensory-motor interface in the gymnotiform fish, Eigenmannia. Keller CH, et al. **J Comp Neurol** 1990 Mar 15;293(3):347–76

Visual and electrosensory circuits of the diencephalon in mormyrids: an evolutionary perspective. Wullimann MF, et al. **J Comp Neurol** 1990 Jul 22;297(4):537–52

Incertal projections from the brainstem and cerebellum: a horseradish peroxidase study in the cat. Aguirre JA, et al. **J Hirnforsch** 1989;30(4):449–55

Further studies on the cyto-, fibro- and dendro-architectonic structures of chicken diencephalon and mesencephalon. Yamauchi K, et al. **J Hirnforsch** 1989;30(5):529–37

CYTOLOGY

Retinal axons in Xenopus laevis recognise differences between tectal and diencephalic glial cells in vitro. Gooday DJ. **Cell Tissue Res** 1990 Mar;259(3):595–8

Microiontophoresis of cocaine, desipramine, sulpiride, methysergide, and naloxone in habenula and parafasciculus. Dougherty PM, et al. **Exp Neurol** 1990 Jun;108(3):241–6

Connections of the subthalamic nucleus with ventral striatopallidal parts of the basal ganglia in the rat. Groenewegen HJ, et al. **J Comp Neurol** 1990 Apr 22; 294(4):607–22

Neuronal development and migration in explant cultures of the adult canary forebrain. Goldman SA. **J Neurosci** 1990 Sep;10(9):2931–9

Antinociceptive effects of dorsal column stimulation in the rat: involvement of the anterior pretectal nucleus. Rees H, et al. **J Physiol (Lond)** 1989 Oct;417:375–88

Activation of cells in the anterior pretectal nucleus by dorsal column stimulation in the rat. Rees H, et al. **J Physiol (Lond)** 1989 Oct;417:361–73

Retino-petal neurons in the diencephalon of juvenile Lobotes surinamensis (teleostei). Meyer DL, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):51–4

Survival of adult basal forebrain cholinergic neurons after loss of target neurons. Sofroniew MV, et al. **Science** 1990 Jan 19;247(4940):338–42

EMBRYOLOGY

Prenatal development of mesencephalic and diencephalic dopaminergic systems in the male and female rat. Reisert I, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):222–9

Axotomy enhances the outgrowth of neurites from embryonic rat septal-basal forebrain neurons on a laminin substratum. Schinstine M, et al. **Exp Neurol** 1990 Apr; 108(1):10–22

ENZYMOLOGY

Axotomy-dependent stimulation of choline acetyltransferase activity by exogenous mouse nerve growth factor in adult rat basal forebrain. Williams LR, et al. **Brain Res** 1989 Oct 2;498(2):243–56

METABOLISM

Regulation by estradiol of GABAA and GABAB binding sites in the diencephalon of the rat: an autoradiographic study. François-Bellan AM, et al. **Brain Res** 1989 Nov 27; 503(1):144–7

Asymmetry in diencephalic monoamine metabolism is related to side of ovulation in a reptile. Jones RE, et al. **Brain Res** 1990 Jan 8;506(2):187–91

Loss of NGF receptor immunoreactivity in basal forebrain neurons of aged rats: correlation with spatial memory impairment. Koh S, et al. **Brain Res** 1989 Oct 2; 498(2):397–404

Mapping of somatostatin receptor localization in rat brain: forebrain and diencephalon. Katayama S, et al. **Brain Res Bull** 1990 Mar;24(3):331–9

Glucocorticoid regulation of rat diencephalon angiotensinogen production. Deschepper CF, et al. **Endocrinology** 1990 Feb;126(2):963–70

Monitoring of acetylcholine released from postnatal rat basal forebrain cholinergic neurons cultured on membrane filter by cell bed perfusion system and HPLC-ECD. Takei N, et al. **Exp Neurol** 1990 Jun;108(3):229–31

Natriuretic peptide receptors in cultured rat diencephalon. Levin ER, et al. **J Biol Chem** 1990 Jun 15;265(17):10019–24

GABA-like immunoreactivity of neurons in the chicken diencephalon and mesencephalon. Granda RH, et al. **J Comp Neurol** 1989 Sep 22;287(4):455–69

Catecholamine-containing neurons in the sheep brainstem and diencephalon: immunohistochemical study with tyrosine hydroxylase (TH) and dopamine-beta-hydroxylase (DBH) antibodies. Tillet Y, et al. **J Comp Neurol** 1989 Dec 1;290(1):69–104

Intracellular storage and evoked release of acetylcholine from postnatal rat basal forebrain cholinergic neurons in culture with nerve growth factor. Takei N, et al. **J Neurochem** 1989 Nov;53(5):1405–10

GABA and glycine as putative transmitters in subcortical pathways to the pontine nuclei. A combined immunocytochemical and retrograde tracing study in the cat with some observations in the rat. Aas JE, et al. **Neuroscience** 1990;34(1):149–62

PHYSIOLOGY

The role of basal forebrain norepinephrine and the control of extracellular depletion-induced drinking. Johnson AK, et al. **Acta Physiol Pol** 1989 May–Jun;40(3):282–92 (51 ref.)

Forebrain rhythm generators influence sympathetic activity in anesthetized cats. Kenney MJ, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R572–8

Diencephalon as a cardinal neural structure for mediating 2 Hz- but not 100 Hz-electroacupuncture-induced tail flick reflex suppression. Wang Q, et al. **Behav Brain Res** 1990 Mar 5;37(2):149–56

Reaching to a rewarded visual stimulus: interhemispheric conflict and hand use in monkeys with forebrain commissurotomy. Eacott MJ, et al. **Brain** 1989 Oct;112 (Pt 5):1215–30

Electrophysiology and pharmacology of neurons of the medial zona incerta: an in vitro slice study. Eaton MJ, et al. **Brain Res** 1989 Nov 13;502(1):117–26

Effects of basal forebrain stimulation on the waking discharge of neurons in the midbrain reticular formation of cats. Szymusiak R, et al. **Brain Res** 1989 Oct 2;498(2):355–9

Activation of the bed nucleus of the stria terminalis increases gastric motility in the rat. Hermann GE, et al. **J Auton Nerv Syst** 1990 Jun;30(2):123–8

Localization and development of nerve growth factor-sensitive rat basal forebrain neurons and their afferent projections to hippocampus and neocortex. Koh S, et al. **J Neurosci** 1989 Sep;9(9):2999–0318

Learning and memory is reflected in the responses of reinforcement-related neurons in the primate basal forebrain. Wilson FA, et al. **J Neurosci** 1990 Apr; 10(4):1254–67

Forebrain influences on brainstem and spinal mechanisms of copulatory behavior: a current perspective on Frank Beach's contribution. Rose JD. **Neurosci Biobehav Rev** 1990 Summer;14(2):207–15 (30 ref.)

A major direct GABAergic pathway from zona incerta to neocortex. Lin CS, et al. **Science** 1990 Jun 22; 248(4962):1553–6

Electrophysiological evidence for an excitatory amino acid projection from the ventromedial hypothalamus to the medial zona incerta. Eaton MJ, et al. **Synapse** 1990; 5(1):77–9

PHYSIOPATHOLOGY

[Changes in carbohydrate metabolism before and after the development of focal cerebral ischemia. III. Function of the diencephalon] Bartko D, et al. **Cesk Neurol Neurochir** 1989 May;52(3):193–200 (Eng. Abstr.) **(Slo)**

RADIOGRAPHY

Cortical and diencephalic lesions in Korsakoff's syndrome: a clinical and CT scan study. Jacobson RR, et al. **Psychol Med** 1990 Feb;20(1):63–75

SECRETION

Acetylcholine stimulates the secretion of corticotropin-releasing factor from primary dissociated cell cultures of the rat telencephalon and diencephalon. Hillhouse E, et al. **Brain Res** 1990 Jan 1;506(1):9–13

DIENESTROL see under **PHENOLS**

DIENTAMOEBA

ISOLATION & PURIFICATION

Studies on Dientamoeba fragilis in Romania. I. Dientamoeba fragilis isolated from clinical cases. Problems of diagnosis, incidence, clinical aspects. Silard R, et al. **Arch Roum Pathol Exp Microbiol** 1979 Jul–Dec; 38(3–4):359–72

DIENTAMOEBIASIS see under **PROTOZOAN INFECTIONS**

DIESTRUS see under **ESTRUS**

DIET

see related
COOKERY

Effects of easily chewable diet and unilateral extraction of upper molars on the masseter muscle in developing mice. Maeda N, et al. **Acta Anat (Basel)** 1990;137(1):19–24

Nutrition and cardiovascular risk: the Hungarian experience. Biró G. **Acta Cardiol** 1989;44(6):472–4

Diet and chronic diseases: a global perspective. Gyárfás I, et al. **Acta Cardiol** 1989;44(6):487–9

Nutrition and cardiovascular risk: the Mediterranean experience. Mancini M, et al. **Acta Cardiol** 1989;44(6):466–7

Nutrition and cardiovascular risk: the Finnish experience. Pyörälä K. **Acta Cardiol** 1989;44(6):470–1

Dietary fatty acids and antioxidant vitamins and the risk of coronary heart disease: the Scottish experience. Riemersma RA. **Acta Cardiol** 1989;44(6):482–3

Nutrition and cardiovascular risk: a Swedish experience. Wilhelmsen L. **Acta Cardiol** 1989;44(6):478–81

Effect of dietary environment on the development of impaired glucose tolerance and pancreatic hormone secretion in neonatal streptozocin-treated (NSZ) rats. Seino Y, et al. **Acta Diabetol Lat** 1990 Apr–Jun;27(2):95–104

Digestive cancers and nutrition in Belgium. Joossens JV. **Acta Gastroenterol Belg** 1989 Jul–Oct;51(4–5):313–21

Diet and cancer. A review. Miller AB. **Acta Oncol** 1990; 29(1):87–95 (100 ref.)

Normocaloric diet and exercise: a good choice for treating obese adolescents. Amador M, et al. **Acta Paediatr Hung** 1990;30(1):123–38

Effects of various types of diets on food allergy in the infant. Fälth-Magnusson K, et al. **Acta Paediatr Scand Suppl** 1989; 351:53–6 (11 ref.)

Effects of diet on intestinal flora. Gothefors L. **Acta Paediatr Scand Suppl** 1989;351:118–21 (19 ref.)
Dietary factors affecting trace element absorption in infants. Lönnerdal B. **Acta Paediatr Scand Suppl** 1989;351:109–13 (21 ref.)
The effect of late pregnancy feed allowance on the milk composition of the sow's colostrum and milk. Göransson L. **Acta Vet Scand** 1990;31(1):109–15
Adaptation of the ruminant digestive tract to diet. Kay R. **Acta Vet Scand Suppl** 1989;86:196–203 (21 ref.)
Evolution of vertebrate herbivores. Stevens CE. **Acta Vet Scand Suppl** 1989;86:9–19 (55 ref.)
Modulation of long chain fatty acid unsaturation by dietary copper. Cunnane SC. **Adv Exp Med Biol** 1989;258:183–95 (34 ref.)
Should dietary restrictions always be prescribed in the treatment of gout? González AA, et al. **Adv Exp Med Biol** 1989;253A:243–6
Food sources of dietary copper. Kies C. **Adv Exp Med Biol** 1989;258:1–20 (8 ref.)
Exocrine pancreatic function of rats consuming a high-fructose, low-copper diet. Lewis CG, et al. **Adv Exp Med Biol** 1989;258:219–27
Behavior of oxypurines in normal subjects after an 8 day purine-free diet. Marinello E, et al. **Adv Exp Med Biol** 1989;253A:239–42
Stable isotope studies of the effect of dietary copper on copper absorption and excretion. Turnlund JR. **Adv Exp Med Biol** 1989;258:21–8 (12 ref.)
Dietary choline: a limiting factor for the synthesis of acetylcholine by the brain. Wecker L. **Adv Neurol** 1990; 51:139–45 (45 ref.)
Nutritional modulation of oxygen radical pathology. Draper HH. **Adv Nutr Res** 1990;8:119–45 (65 ref.)
Research review: studies in the nutrition of elderly people with particular reference to essential trace elements. Bunker VW, et al. **Age Ageing** 1989 Nov;18(6):422–9
The relationship of laboratory parameters to dietary intake in a long-stay hospital. MacLennan WJ, et al. **Age Ageing** 1975 Nov;4(4):189–94
Role of maternal diet and mode of infant feeding in prevention of atopic dermatitis in high risk infants. Chandra RK. **Allergy** 1989;44 Suppl 9:135–9
Elimination diets in the diagnosis of atopic dermatitis. Taylor SL. **Allergy** 1989;44 Suppl 9:97–100
Dietary intake of total and glycosylated vitamin B-6 and the vitamin B-6 nutritional status of unsupplemented lactating women and their infants [see comments] Andon MB, et al. **Am J Clin Nutr** 1989 Nov;50(5):1050–8 Comment in: Am J Clin Nutr 1990 Jun;51(6):1116–7.
Inhibition by selected food components of human and porcine intestinal pteroylpolyglutamate hydrolase activity. Bhandari SD, et al. **Am J Clin Nutr** 1990 Jan;51(1):87–94
Vitamin B-6 supplementation and breast milk [letter; comment] Borschel MW, et al. **Am J Clin Nutr** 1990 Jun; 51(6):1116–7 Comment on: Am J Clin Nutr 1989 Nov;50(5):1050–8.
Plasma glucose and insulin responses to traditional Pima Indian meals. Brand JC, et al. **Am J Clin Nutr** 1990 Mar; 51(3):416–20
Florence Nightingale: on feeding an army. Calkins BM. **Am J Clin Nutr** 1989 Dec;50(6):1260–5
Influence of diet and physical activity on blood serum cholesterol of young men. Campbell DE. **Am J Clin Nutr** 1966 Feb;18(2):79–85
Patterns of weight change and their relation to diet in a cohort of healthy women. Colditz GA, et al. **Am J Clin Nutr** 1990 Jun;51(6):1100–5
Zinc deficiency and zinc repletion: effect on the response of rats to infection with Trichinella spiralis. Fenwick PK, et al. **Am J Clin Nutr** 1990 Jul;52(1):166–72
Dietary calcium, phytate, and zinc intakes and the calcium, phytate, and zinc molar ratios of the diets of a selected group of East African children. Ferguson EL, et al. **Am J Clin Nutr** 1989 Dec;50(6):1450–6
Zinc toxicity. Fosmire GJ. **Am J Clin Nutr** 1990 Feb; 51(2):225–7 (31 ref.)
Nutrition and the incidence of stress fractures in ballet dancers. Frusztajer NT, et al. **Am J Clin Nutr** 1990 May; 51(5):779–83
Intake, serum concentrations, and urinary excretion of manganese by adult males. Greger JL, et al. **Am J Clin Nutr** 1990 Mar;51(3):457–61
Patterns of food selection during meals in women with bulimia. Hadigan CM, et al. **Am J Clin Nutr** 1989 Oct; 50(4):759–66
Development of a diet history questionnaire for studies of older persons. Hankin JH. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1121–7; discussion 1231–5 (37 ref.)
Nutrient intakes during pregnancy: observations on the influence of smoking and social class. Haste FM, et al. **Am J Clin Nutr** 1990 Jan;51(1):29–36
Recommended dietary intakes of elderly subjects. Hegsted DM. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1190–4; discussion 1231–5 (17 ref.)
Dietary vitamin B-6 intake and food sources in the US population: NHANES II, 1976–1980. Kant AK, et al. **Am J Clin Nutr** 1990 Oct;52(4):707–16
Smoking status: effects on the dietary intake, physical activity, and body fat of adult men. Klesges RC, et al. **Am J Clin Nutr** 1990 May;51(5):784–9
Influence of iron-deficiency anemia on selected thymus functions in mice: thymulin biological activity, T-cell subsets, and thymocyte proliferation. Kuvibidila S, et al. **Am J Clin Nutr** 1990 Feb;51(2):228–32
Menhaden-fish oil in a vitamin E-deficient diet: protection against chloroquine-resistant malaria in mice. Levander OA, et al. **Am J Clin Nutr** 1989 Dec;50(6):1237–9
The content of constant diets. A comparison between analyzed and calculated values. Manalo R, et al. **Am J Clin Nutr** 1966 May;18(5):339–42
Effects of diet on serum lipids and apolipoproteins [letter] Massé J. **Am J Clin Nutr** 1990 Oct;52(4):765
Diet composition, energy intake, and exercise in relation to body fat in men and women. Miller WC, et al. **Am J Clin Nutr** 1990 Sep;52(3):426–30
A longitudinal study of pyridoxine and zinc supplementation of lactating women. Moser-Veillon PB, et al. **Am J Clin Nutr** 1990 Jul;52(1):135–41
Vitamin E intakes and sources in the United States. Murphy SP, et al. **Am J Clin Nutr** 1990 Aug;52(2):361–7
Tyrosine- and phenylalanine-restricted formula diet augments immunocompetence in healthy humans. Norris JR, et al. **Am J Clin Nutr** 1990 Feb;51(2):188–96
Analysis of dietary data. Perloff BP. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1128–32; discussion 1231–5 (22 ref.)
Dietary and hormonal evaluation of men at different risks for prostate cancer: plasma and fecal hormone-nutrient interrelationships. Pusateri DJ, et al. **Am J Clin Nutr** 1990 Mar;51(3):371–7
Patterns in food use and their associations with nutrient intakes. Randall E, et al. **Am J Clin Nutr** 1990 Oct; 52(4):739–45
Trace element nutrition status and dietary intake of children with phenylketonuria. Reilly C, et al. **Am J Clin Nutr** 1990 Jul;52(1):159–65
Nutritional factors in diabetics with and without retinopathy. Roy MS, et al. **Am J Clin Nutr** 1989 Oct;50(4):728–30
Surrogate measures of dietary intake. Samet JM. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1139–44; discussion 1231–5 (15 ref.)
Subcutaneous adipose-tissue fatty acids and vitamin E in humans: relation to diet and sampling site. Schäfer L, et al. **Am J Clin Nutr** 1990 Sep;52(3):486–90
Assessment of physical activity and energy needs. Shephard RJ. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1195–200; discussion 1231–5 (38 ref.)
Food-consumption trends between adolescent and adult years and subsequent risk of prostate cancer. Slattery ML, et al. **Am J Clin Nutr** 1990 Oct;52(4):752–7
Diet of second-generation Japanese-American men with and without non-insulin-dependent diabetes. Tsunehara CH, et al. **Am J Clin Nutr** 1990 Oct;52(4):731–8
Milk's effect on the bioavailability of iron from cereal-based diets in young women by use of in vitro and in vivo methods. Turnlund JR, et al. **Am J Clin Nutr** 1990 Aug; 52(2):373–8
Dietary-fish effects on serum lipids and apolipoproteins, a controlled study. van Houwelingen R, et al. **Am J Clin Nutr** 1990 Mar;51(3):393–8
An evaluation of the relative contributions of exposure to sunlight and of diet to the circulating concentrations of 25-hydroxyvitamin D in an elderly nursing home population in Boston. Webb AR, et al. **Am J Clin Nutr** 1990 Jun;51(6):1075–81
Diurnal variation in postabsorptive resting metabolic rate and diet-induced thermogenesis. Weststrate JA, et al. **Am J Clin Nutr** 1989 Nov;50(5):908–14
Glycemic index and mixed meals [letter; comment] Wolever TM. **Am J Clin Nutr** 1990 Jun;51(6):1113–4 Comment on: Am J Clin Nutr 1989 Dec;50(6):1240–3.
Effects of unrestricted diet on mild infantile diarrhea. A practice-based study. Margolis PA, et al. **Am J Dis Child** 1990 Feb;144(2):162–4
Re: Physical activity, diet, and risk of colon cancer in Utah [letter; comment] **Am J Epidemiol** 1990 Mar;131(3):567–70 Comment on: Am J Epidemiol 1988 Nov;128(5):989–99.
A case-control study of diet and rectal cancer in western New York. Freudenheim JL, et al. **Am J Epidemiol** 1990 Apr;131(4):612–24
Diet, plasma levels of beta-carotene and alpha-tocopherol, and risk of malignant melanoma. Stryker WS, et al. **Am J Epidemiol** 1990 Apr;131(4):597–611
Selenium in diet, blood, and toenails in relation to breast cancer: a case-control study. van 't Veer P, et al. **Am J Epidemiol** 1990 Jun;131(6):987–94
Response to Dr. Mogadam. Importance of diet in the prevention of cancer [letter] Kallman B. **Am J Gastroenterol** 1990 Apr;85(4):474–5
Genetic analysis of apolipoprotein A-I in two dietary environments. Blangero J, et al. **Am J Hum Genet** 1990 Sep;47(3):414–28
Nutritional support during peritoneal dialysis-related peritonitis. Rubin J. **Am J Kidney Dis** 1990 Jun;15(6):551–5
Hydrophobic surfactant inhibits hypercholesterolemia in pair-fed rabbits on a cholesterol-free, low-fat diet. Rodgers JB, et al. **Am J Med Sci** 1989 Sep;298(3):177–81
Enamel hypoplasias: poor indicators of dietary stress [comment] Neiburger EJ. **Am J Phys Anthropol** 1990 Jun; 82(2):231–3 Comment on: Am J Phys Anthropol 1989 May;79(1):25–41.
Seasonal or ecological differences in diet and molar microwear in Cebus nigrivittatus. Teaford MF, et al. **Am J Phys Anthropol** 1989 Nov;80(3):391–401
Effects of dietary interventions on glomerular pathophysiology. Diamond JR. **Am J Physiol** 1990 Jan; 258(1 Pt 2):F1–8 (68 ref.)
Energy expenditure and diet-induced thermogenesis in presence and absence of hyperphagia induced by insulin. Dulloo AG, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R717–25
Influence of Na+ intake on dopamine-induced inhibition of renal cortical Na(+)-K(+)-ATPase. Seri I, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F52–60
Attenuation of hypermetabolism in the remnant kidney by dietary phosphate restriction in the rat. Shapiro JI, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F183–8
Dietary bicarbonate reduces rat distal nephron acidification evaluated in situ. Wesson DE. **Am J Physiol** 1990 Apr;258(4 Pt 2):F870–6
Demographic and dietary determinants of constipation in the US population. Sandler RS, et al. **Am J Public Health** 1990 Feb;80(2):185–9
Dietary intake of Americans reporting adherence to a low cholesterol diet (NHANES II). Schectman G, et al. **Am J Public Health** 1990 Jun;80(6):698–703
Treatment of enterocutaneous fistulas by high-pressure suction with a normal diet. Medeiros A da C, et al. **Am J Surg** 1990 Apr;159(4):411–3
Effect of diet on Heinz body formation in kittens. Hickman MA, et al. **Am J Vet Res** 1990 Mar;51(3):475–8
Antibodies to bovine parvovirus acquired by neonatal pigs through ingestion of virus and antibody in the diet. Mengeling WL, et al. **Am J Vet Res** 1990 Apr;51(4):632–5
Diet and flight hypoxemia [letter] [see comments] Hansen JE. **Ann Intern Med** 1989 Nov 15;111(10):859–60 Comment in: Ann Intern Med 1990 Feb 15;112(4):309–10.
Dietary-induced overeating. Sclafani A. **Ann N Y Acad Sci** 1989;575:281–9; discussion 290–1 (40 ref.)
Effect of ascorbic acid supplementation on haematological response and ascorbic acid status of young female adults. Ajayi OA, et al. **Ann Nutr Metab** 1990;34(1):32–6
Effects of stigmasterol-supplemented diets on fecal neutral sterols and bile acid excretion in rats. Andriamiarina R, et al. **Ann Nutr Metab** 1989;33(5):297–303
Effects of dietary magnesium and/or manganese variables on the growth rate and metabolism of mice. Fahim FA, et al. **Ann Nutr Metab** 1990;34(3):183–92
Effects of dietary polyamine precursors on the metabolism and tissue concentrations of amino acids in the rat. Smith TK, et al. **Ann Nutr Metab** 1989;33(3):143–52
Plasma glucose and insulin, urinary catecholamine and cortisol responses to test breakfasts with high or low fibre content: the importance of the previous diet. Sundell IB, et al. **Ann Nutr Metab** 1989;33(6):333–40
The influence of sulfur supplementation (methionine and sulfate) on the zinc availability of a poor diet in sheep. Lamand M, et al. **Ann Rech Vet** 1990;21(3):229–30
Low-dose growth hormone and hypocaloric nutrition attenuate the protein-catabolic response after major operation. Jiang ZM, et al. **Ann Surg** 1989 Oct; 210(4):513–24; discussion 524–5
Immunologic effects of arginine supplementation in tumor-bearing and non-tumor-bearing hosts. Reynolds JV, et al. **Ann Surg** 1990 Feb;211(2):202–10
Adaptation of the exocrine pancreas to diet. Brannon PM. **Annu Rev Nutr** 1990;10:85–105 (104 ref.)
Enduring social enhancement of rats' preferences for the palatable and the piquant. Galef BG Jr. **Appetite** 1989 Oct; 13(2):81–92
Monoclonal antibody to 2-amino-3-methylimidazo(4,5-f)quinoline, a dietary carcinogen. Yanagisawa H, et al. **Appl Biochem Biotechnol** 1990 Jan;23(1):1–13
Influence of diet and monensin on development of anaerobic fungi in the rumen, duodenum, cecum, and feces of cows. Grenet E, et al. **Appl Environ Microbiol** 1989 Sep; 55(9):2360–4
Early diet in preterm babies and developmental status in infancy. Lucas A, et al. **Arch Dis Child** 1989 Nov; 64(11):1570–8
Surveillance for anaemia: risk factors in patterns of milk intake. Mills AF. **Arch Dis Child** 1990 Apr;65(4):428–31
Early diet in preterm babies and developmental status in infancy [letter] Williams LH, et al. **Arch Dis Child** 1990 Aug;65(8):914
Influence of fatty acid composition of diet on cholesterol content of eel liver and muscle. Burgos C, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):1–6
Short term diet of precooked corn meal almost lacking in tryptophan and interspecific rat-mouse aggressive behaviour. Giammanco S, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):23–6
Diet vs exercise in weight maintenance. The effects of minimal intervention strategies on long-term outcomes in men. King AC, et al. **Arch Intern Med** 1989 Dec; 149(12):2741–6
The Toledo Exercise and Diet Study. Results at 26 weeks. Leighton RF, et al. **Arch Intern Med** 1990 May; 150(5):1016–20
Species, diet, and gender differences in plasma postheparin lipolytic activities in nonhuman primates. Relationships with plasma lipids and high density lipoproteins. Rudel LL, et al. **Arterioscler Thromb** 1990 May-Jun;10(3):350–7
Dieting and life-style. Leathwood PD, et al.

Bibl Nutr Dieta 1990;(45):195–207 (16 ref.)
In vivo C14–L–alanine metabolism in rat dietary obesity induced by cafeteria diet. Gianotti M, et al. Biochem Int 1990;20(2):353–61
Comparison of tissue pyruvate dehydrogenase activities on re–feeding rats fed ad libitum or meal–fed rats with a chow–diet meal. Holness MJ, et al. Biochem J 1989 Aug 15;262(1):321–5
Dietary–induced pre–translational control of rat fatty acid synthase. Laux T, et al. Biochem J 1990 Mar 15; 266(3):793–7
Effects of nutrients and insulin on transcriptional and post–transcriptional regulation of glucose–6–phosphate dehydrogenase synthesis in rat liver. Katsurada A, et al. Biochim Biophys Acta 1989 Nov 6;1006(1):104–10
Exogenous insulin and additional energy affect follicular distribution, follicular steroid concentrations, and granulosa cell human chorionic gonadotropin binding in swine. Matamoros IA, et al. Biol Reprod 1990 Jul;43(1):1–7
New aspects on the distribution and metabolism of essential trace elements after dietary exposure to toxic metals. Abdulla M, et al. Biol Trace Elem Res 1989–90 Winter; 23:25–53 (163 ref.)
Effect of dietary copper on vanadate toxicity in chicks. Hill CH. Biol Trace Elem Res 1989–90 Winter;23:17–23
Cadmium–induced alterations in ocular trace elements. Influence of dietary selenium and copper. Jamall IS, et al. Biol Trace Elem Res 1989–90 Winter;23:55–63
Effect of diet on the response in rats to lead acetate given orally or in the drinking water. Korsrud GO, et al. Biol Trace Elem Res 1988 Sep–Dec;17:167–73
Effect of dietary selenium and tumor status on the retention of 75Se by tissues and mammary tumors of DMBA–treated rats. L'Abbé MR, et al. Biol Trace Elem Res 1989 Apr–May;20(1–2):179–96
Usefulness of the dietary phytic acid/zinc molar ratio as an index of zinc bioavailability to rats and humans. Morris ER, et al. Biol Trace Elem Res 1989 Jan–Feb; 19(1–2):107–17
The daily dietary selenium intake of West German adults. Oster O, et al. Biol Trace Elem Res 1989 Apr–May; 20(1–2):1–14
Effect of simulated American, Bulgarian, and Japanese human diets and of selenium supplementation on the incidence of virally induced mammary tumors in female mice. Schrauzer GN, et al. Biol Trace Elem Res 1989 Apr–May;20(1–2):169–78
Advances in the role of minerals in immunobiology. Spallholz JE, et al. Biol Trace Elem Res 1989 Mar;19(3):129–51 (98 ref.)
Copper absorption in young men fed adequate and low zinc diets. Turnlund JR, et al. Biol Trace Elem Res 1988 Sep–Dec;17:31–41
Study on iron nutritional status in adolescence. Cai MQ, et al. Biomed Environ Sci 1990 Mar;3(1):113–9
Nibblers, gorgers, snackers, and grazers [letter] BMJ 1990 Mar 3;300(6724):610–1
Accuracy of weighed dietary records [letter; comment] Jackson AA, et al. BMJ 1990 Apr 28;300(6732):1138–9 Comment on: BMJ 1990 Mar 17;300(6726):708–12.
Accuracy of weighed dietary records in studies of diet and health [see comments] Livingstone MB, et al. BMJ 1990 Mar 17;300(6726):708–12 Comment in: BMJ 1990 Apr 28;300(6732):1138–9.
But what about the diet, doctor? Narayanan R. BMJ 1989 Dec 23–30;299(6715):1607
Why are the Japanese living longer? [letter; comment] Sakuta T. BMJ 1990 Mar 3;300(6724):610 Comment on: BMJ 1989 Dec 23–30;299(6715):1547–51.
Nibblers, gorgers, snackers, and grazers [editorial] Southgate DA. BMJ 1990 Jan 20;300(6718):136–7
Dietary intake and plasma lipid levels: lessons from a study of the diet of health conscious groups. Thorogood M, et al. BMJ 1990 May 19;300(6735):1297–301
Why are the Japanese living longer? [letter] [published erratum appears in BMJ 1990 Mar 17;300(6726):751] [comment] Walsh GP. BMJ 1990 Feb 17;300(6722):465 Comment on: BMJ 1989 Dec 23–30;299(6715):1547–51.
Low calcium diet in dogs causes a greater increase in parathyroid function measured with an intact hormone than with a carboxylterminal assay. Cloutier M, et al. Bone Miner 1990 Jun;9(3):179–88
Effects of clomiphene and tamoxifen in vivo on the bone–resorbing effects of parathyroid hormone and of high oral doses of calcitriol (1,25(OH)2D3) in rats with intact ovarian function consuming low calcium diet. Goulding A, et al. Bone Miner 1990 Mar;8(3):185–93
Effect of dietary cadmium and/or copper on the bone lysyl oxidase in copper–deficient rats relative to the metabolism of copper in the bone. Iguchi H, et al. Bone Miner 1990 Jul;10(1):51–9
Garlic, onions and cardiovascular risk factors. A review of the evidence from human experiments with emphasis on commercially available preparations [see comments] Kleijnen J, et al. Br J Clin Pharmacol 1989 Nov; 28(5):535–44 (39 ref.) Comment in: Br J Clin Pharmacol 1990 May;29(5):582–3.
Preliminary trial of the effect of general practice based nutritional advice. Baron JA, et al. Br J Gen Pract 1990 Apr;40(333):137–41
Iron deficiency and sources of iron [letter] Kay T. Br J Gen Pract 1990 May;40(334):217–8
Serum lipoproteins in day and shift workers: a prospective study. Knutson A, et al. Br J Ind Med 1990 Feb;47(2):132–4
Effect of frequency of feeding of diets containing free or protein–bound lysine on the oxidation of [14C]lysine or [14C]phenylalanine by growing pigs. Batterham ES, et al. Br J Nutr 1989 Nov;62(3):647–55
Lipid metabolism of liquid–associated and solid–adherent bacteria in rumen contents of dairy cows offered lipid–supplemented diets. Bauchart D, et al. Br J Nutr 1990 May;63(3):563–78
Nutrient effects on the hepatic production of somatomedin C (IGF1) in the milk–fed calf. Coxam V, et al. Br J Nutr 1989 Sep;62(2):425–37
The optimum dietary amino acid pattern for growing pigs. 2. Requirements for maintenance and for tissue protein accretion. Fuller MF, et al. Br J Nutr 1989 Sep; 62(2):255–67
The effect of size and density on mean retention time of particles in the gastrointestinal tract of sheep. Kaske M, et al. Br J Nutr 1990 May;63(3):457–65
The effect of various levels of fructose in a copper–deficient diet on Cu deficiency in male rats. Lewis CG, et al. Br J Nutr 1990 Mar;63(2):387–95
Nutrient intakes of urban dwellers in Lagos, Nigeria. McFie J. Br J Nutr 1967;21(2):257–68
Dietary modification of potential vitamin K supply from enteric bacterial menaquinones in rats. Mathers JC, et al. Br J Nutr 1990 May;63(3):639–52
The effect of daily consumption of coconut fat and soya–bean fat on plasma lipids and lipoproteins of young normolipidaemic men. Mendis S, et al. Br J Nutr 1990 May; 63(3):547–52
Nutrient intakes, vitamin–mineral supplementation, and intelligence in British schoolchildren. Nelson M, et al. Br J Nutr 1990 Jul;64(1):13–22
Methylmalonic acid in the diagnosis of cobalt deficiency in barley–fed lambs. O'Harte FP, et al. Br J Nutr 1989 Nov; 62(3):729–38
Nutrient supply and growth of cattle offered straw–based diets. Ortigues I, et al. Br J Nutr 1989 Nov;62(3):601–19
Vitamin C synthesis in rats fed on diets deficient or normal in iron content. Rajalakshmi R, et al. Br J Nutr 1967; 21(2):333–40
Changes in body–weight, composition and hepatic enzyme activities in response to dietary methionine, betaine and choline levels in growing chicks. Saunderson CL, et al. Br J Nutr 1990 Mar;63(2):339–49
The diets of pregnant and post–pregnant women in different social groups in London and Edinburgh: calcium, iron, retinol, ascorbic acid and folic acid. Schofield C, et al. Br J Nutr 1989 Sep;62(2):363–77
Role of dietary restriction in Haemoccult screening for colorectal cancer. Thomas WM, et al. Br J Surg 1989 Sep; 76(9):976–8
Utilisation of free and protein dietary lysine in chicks estimated with isotopes. Otto M, et al. Br Poult Sci 1989 Sep;30(3):633–9
Medial hypothalamic serotonin: role in circadian patterns of feeding and macronutrient selection. Leibowitz SF, et al. Brain Res 1989 Nov 27;503(1):132–40
Dietary cis–fatty acids that increase protein F1 phosphorylation enhance spatial memory. Wong KL, et al. Brain Res 1989 Dec 29;505(2):302–5
Change of intracellular K+ activity in rat soleus muscle during hypokalemia. Nagaoka R, et al. Brain Res Bull 1989 Jun;22(6):1009–13
PVN steroid implants: effect on feeding patterns and macronutrient selection. Tempel DL, et al. Brain Res Bull 1989 Dec;23(6):553–60
Modified behavioral and olfactory bulb responses to maternal odors in preweanling rats. Sullivan RM, et al. Brain Res Dev Brain Res 1990 May 1;53(2):243–7
Protective effect of a protein–free diet in acute experimental pancreatitis. Gonçalez Y, et al. Braz J Med Biol Res 1989; 22(4):477–83
Effect of diets with different protein levels on the growth of Walker 256 carcinosarcoma in rats. Waitzberg DL, et al. Braz J Med Biol Res 1989;22(4):447–55
Nutritional aspects of pediatric hypertension. Ingelfinger JR. Bull N Y Acad Med 1989 Dec;65(10):1109–20; discussion 1154–60 (88 ref.)
Primary prevention of colorectal cancer. The WHO Collaborating Centre for the Prevention of Colorectal Cancer. Shike M, et al. Bull World Health Organ 1990; 68(3):377–85 (93 ref.)
Nutrition and cancer: American Cancer Society guidelines, programs, and initiatives. Nixon DW. CA 1990 Mar–Apr; 40(2):71–5
Diet and dental caries. Burgess RC, et al. Can Dent Assoc J 1989 Sep;55(9):699–702 (54 ref.)
Renal serine production in vivo: effects of dietary manipulation of serine status. Brosnan JT, et al. Can J Physiol Pharmacol 1989 Sep;67(9):1058–61
Alleviation of hysteria in laying hens with dietary tryptophan. Laycock SR, et al. Can J Vet Res 1990 Apr; 54(2):291–5
Calorie restriction and cellular proliferation in various tissues of the female Swiss Webster mouse. Lok E, et al. Cancer Lett 1990 May 15;51(1):67–73
Mate drinking, alcohol, tobacco, diet, and esophageal cancer in Uruguay. De Stefani E, et al. Cancer Res 1990 Jan 15; 50(2):426–31
Dietary indicators of laryngeal cancer risk. La Vecchia C, et al. Cancer Res 1990 Aug 1;50(15):4497–500
Association between diet and age–related DNA modifications (I–compounds) in rat liver and kidney. Li DH, et al. Cancer Res 1990 Jul 1;50(13):3991–6
A prospective study of stomach cancer and its relation to diet, cigarettes, and alcohol consumption [see comments] Nomura A, et al. Cancer Res 1990 Feb 1;50(3):627–31 Comment in: Cancer Res 1990 Jun 15;50(12):3804.
Micronucleated erythrocytes as an index of cytogenetic damage in humans: demographic and dietary factors associated with micronucleated erythrocytes in splenectomized subjects. Smith DF, et al. Cancer Res 1990 Aug 15;50(16):5049–54
A case–control study of dietary and nondietary risk factors for breast cancer in Shanghai. Yu SZ, et al. Cancer Res 1990 Aug 15;50(16):5017–21
Are nitrates a significant risk factor in human cancer? Forman D. Cancer Surv 1989;8(2):443–58 (77 ref.)
Nitrosation of dietary precursors. Shephard SE, et al. Cancer Surv 1989;8(2):401–21 (53 ref.)
Reduction in mammary tumorigenesis in the rat by cabbage and cabbage residue. Bresnick E, et al. Carcinogenesis 1990 Jul;11(7):1159–63
Rapid single–dose model for lung tumor induction in A/J mice by 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone and the effect of diet. Hecht SS, et al. Carcinogenesis 1989 Oct;10(10):1901–4
Modulating effects in human diets of dietary fibre and beef, and of time and dose on the reactive microcapsule trapping of benzo[a]pyrene metabolites in the rat gastrointestinal tract. O'Neill IK, et al. Carcinogenesis 1990 Apr; 11(4):599–607
Systematic modulation by human diet levels of dietary fibre and beef on metabolism and disposition of benzo[a]pyrene in the gastrointestinal tract of Fischer F344 rats. O'Neill IK, et al. Carcinogenesis 1990 Apr;11(4):609–16
Prevention of adult heart disease beginning in the pediatric age. Berenson GS, et al. Cardiovasc Clin 1990;20(3):21–45 (94 ref.)
Long–term effects of food supplementation and psychosocial intervention on the physical growth of Colombian infants at risk of malnutrition. Super CM, et al. Child Dev 1990 Feb;61(1):29–49
Risk assessment of diet in a community–based study. Chang HJ, et al. Chung Hua I Hsueh Tsa Chih 1989 Jul;44(1):15–8
The healthy American diet. Circulation 1990 Sep;82(3):1079
Changes in lipoprotein subfractions during diet–induced and exercise–induced weight loss in moderately overweight men [see comments] Williams PT, et al. Circulation 1990 Apr;81(4):1293–304 Comment in: Circulation 1990 Apr;81(4):1428–30.
Effect of ingestion of hemoproteins on fecal excretion of hemes and porphyrins. Rose IS, et al. Clin Chem 1989 Dec; 35(12):2290–6
Effect of diet on urinary excretion of unconjugated catecholamines and some of their metabolites in healthy control subjects and depressed patients. Moleman P. Clin Chim Acta 1990 Jul;189(1):19–24
Thermogenesis and the effect of injected catecholamines on the oxygen consumption of cafeteria–fed rats. Maxwell GM, et al. Clin Exp Pharmacol Physiol 1988 May; 15(5):391–400
Serum lipids in insulin–dependent diabetics are markedly altered by dietary fish oils. Mori TA, et al. Clin Exp Pharmacol Physiol 1988 Apr;15(4):333–7
Change in blood pressure in relation to change in nutrients effected by manipulation of dietary sodium and potassium. Nowson CA, et al. Clin Exp Pharmacol Physiol 1988 Mar; 15(3):225–42
New recommended daily allowances set for nutrients [news] Clin Pharm 1990 Jan;9(1):11–2
A simple blood sample method for measuring oral zinc absorption. Watson WS, et al. Clin Phys Physiol Meas 1981 Nov;2(4):299–302
Aspects of protein metabolism after elective surgery in patients receiving constant nutritional support. Carli F, et al. Clin Sci 1990 Jun;78(6):621–8
Adults' beliefs about the determinants of successful dietary change. McConaghy J. Community Health Stud 1989; 13(4):492–502
Relationship of body mass index, weight and height to plasma lipid levels in people with different diets in Britain. Thorogood M, et al. Community Med 1989 Aug;11(3):230–3
The effects of norepinephrine and nutritional status on resting metabolic rates in the LA/N–cp rat. Young NL, et al. Comp Biochem Physiol [A] 1989;94(4):597–602
Dietary modification of lead toxicity: effects on fatty acid and eicosanoid metabolism in chicks. Knowles SO, et al. Comp Biochem Physiol [C] 1990;95(1):99–104
The relationship between diet and hypertension. Simopoulos AP. Compr Ther 1990 May;16(5):25–30 (16 ref.)
Allergy diets for infants and children. Van Hooser B, et al. Compr Ther 1989 Oct;15(10):38–47 (15 ref.)
Baseline characteristics in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Brown KM, et al. Controlled Clin Trials 1989 Sep;10(3 Suppl):40S–64S
The influence of diet and environment. Fernandes G. Curr Opin Immunol 1989 Dec;2(2):275–81 (40 ref.)
Glutamine–enhanced diets in stressed rats improve nitrogen balance. Brown MG, et al. Curr Surg 1989 Nov–Dec;

46(6):472–3
Effect of diet on incidence of diabetes in nonobese diabetic mice. Coleman DL, et al. **Diabetes** 1990 Apr;39(4):432–6
A comparison between the diets of pregnant diabetic women and pregnant non–diabetic women. Anderson AS, et al. **Diabetic Med** 1990 Jun;7(5):452–6
Dietary antigens as aggravating factors in Crohn's disease [editorial] Harris ML, et al. **Dig Dis Sci** 1989 Oct; 34(10):1613–4
Ulcerative colitis in remission: it is possible to predict the risk of relapse? Leo S, et al. **Digestion** 1989;44(4):217–21
Effect of dietary energy, body condition and calf removal on pituitary gonadotropins, gonadotropin–releasing hormone (GnRH) and hypothalamic opioids in beef cows. Connor HC, et al. **Domest Anim Endocrinol** 1990 Jul; 7(3):403–11
Dietary heterocyclic amines and human cancer. Gooderham NJ, et al. **Drug Metab Rev** 1989;20(2–4):285–305 (33 ref.)
A Gompertz age–specific mortality rate model of aging: modification by dietary restriction in rats. Neafsey PJ, et al. **Drug Metab Rev** 1989;21(2):351–65
Diet, nutrition and oral health [editorial] Kaimenyi JT. **East Afr Med J** 1989 Sep;66(9):565–6
Diet, lipids, and coronary heart disease. Stone NJ. **Endocrinol Metab Clin North Am** 1990 Jun;19(2):321–44 (138 ref.)
Effects of heat and feed restriction during growth on thyroxine secretion rate of male rats. Yousef MK, et al. **Endocrinology** 1968 Feb;82(2):353–8
Natural anticarcinogens, carcinogens, and changing patterns in cancer: some speculation. Davis DL. **Environ Res** 1989 Dec;50(2):322–40 (141 ref.)
Equine urine pH: normal population distributions and methods of acidification. Wood T, et al. **Equine Vet J** 1990 Mar;22(2):118–21
Effects of nutrients and hormones on transcriptional and post–transcriptional regulation of fatty acid synthase in rat liver. Katsurada A, et al. **Eur J Biochem** 1990 Jun 20; 190(2):427–33
Effects of nutrients and hormones on transcriptional and post–transcriptional regulation of acetyl–CoA carboxylase in rat liver. Katsurada A, et al. **Eur J Biochem** 1990 Jun 20;190(2):435–41
Plasma glucose and thiocyanate responses to different mixed cassava meals in non–diabetic Nigerians. Akanji AO, et al. **Eur J Clin Nutr** 1990 Jan;44(1):71–7
The promotive effect of soy sauce on iron absorption in human subjects. Baynes RD, et al. **Eur J Clin Nutr** 1990 Jun;44(6):419–24
Dietary and other determinants of lipoprotein levels within a population of 315 Dutch males aged 28 and 29. Berns MA, et al. **Eur J Clin Nutr** 1990 Jul;44(7):535–44
Mediterranean diet and cancer. Berrino F, et al. **Eur J Clin Nutr** 1989;43 Suppl 2:49–55 (58 ref.)
Effects of age and intake on vitamin C disposition in females. Blanchard J, et al. **Eur J Clin Nutr** 1990 Jun;44(6):447–60
Iron status in a group of Norwegian menstruating women. Borch–Iohnsen B, et al. **Eur J Clin Nutr** 1990 Jan;44(1):23–8
Bioavailability of daily low dose iron supplements in menstruating women with low iron stores. Borch–Iohnsen B, et al. **Eur J Clin Nutr** 1990 Jan;44(1):29–34
Some statistical considerations on dietary assessment methods. Borrelli R, et al. **Eur J Clin Nutr** 1989 Jul; 43(7):453–63
Erythrocyte EPA as a marker for intake of fish and fish oil [letter] Brown AJ, et al. **Eur J Clin Nutr** 1990 Jun; 44(6):487–8
Iron absorption and phenolic compounds: importance of different phenolic structures. Brune M, et al. **Eur J Clin Nutr** 1989 Aug;43(8):547–57
Lipid profiles among fish–consuming coastal and non–fish–consuming inland populations. Bulliyya G, et al. **Eur J Clin Nutr** 1990 Jun;44(6):481–5
The Mediterranean diet: protective or simply non–toxic? James WP, et al. **Eur J Clin Nutr** 1989;43 Suppl 2:31–41 (29 ref.)
Effects of short term nutritional manipulation on organ size and fasting heat production. Koong LJ, et al. **Eur J Clin Nutr** 1990;44 Suppl 1:73–7
The form of selenium determines the response to supplementation in a selenium replete population. Meltzer HM, et al. **Eur J Clin Nutr** 1990 Jun;44(6):435–46
Relationships among lactation performance, maternal diet, and body protein metabolism in humans. Motil KJ, et al. **Eur J Clin Nutr** 1989 Oct;43(10):681–91
The effect of psychological stress on diet–induced thermogenesis and resting metabolic rate. Weststrate JA, et al. **Eur J Clin Nutr** 1990 Apr;44(4):269–75
The effect of dietary energy and protein deficiency on drug metabolism. Hamberg O, et al. **Eur J Clin Pharmacol** 1990; 38(6):567–70
Diet and metabolic development. Little MT, et al. **FASEB J** 1990 Jun;4(9):2605–11 (62 ref.)
Dietary variability in Cebus apella in extreme habitats: evidence for adaptability. Brown AD, et al. **Folia Primatol (Basel)** 1990;54(3–4):187–95
Dietary differences between neighboring Cebus capucinus groups: local traditions, food availability or responses to food profitability? Chapman CA, et al. **Folia Primatol (Basel)** 1990;54(3–4):177–86
Diet and feeding behaviour of samango monkeys (Cercopithecus mitis labiatus) in Ngoye Forest, South Africa. Lawes MJ, et al. **Folia Primatol (Basel)** 1990; 54(1–2):57–69
Significance of Mezzettia leptopoda fruits eaten by orang–utans for dental microwear analysis. Lucas PW. **Folia Primatol (Basel)** 1989;52(3–4):185–90
Fish: a new addition to the diet of Japanese macaques on Koshima Island. Watanabe K. **Folia Primatol (Basel)** 1989; 52(3–4):124–31
Dietary intakes of some essential and non–essential trace elements, nitrate, nitrite and N–nitrosamines, by Dutch adults: estimated via a 24–hour duplicate portion study. Ellen G, et al. **Food Addit Contam** 1990 Mar–Apr; 7(2):207–21
Effect of ascorbic acid on N–nitrosoproline excretion in the urine of lacto–vegetarians and subjects on a free–choice diet. Halling H, et al. **Food Addit Contam** 1989 Oct–Dec; 6(4):445–52
Mercury levels in hair from people eating large quantities of Swedish freshwater fish. Oskarsson A, et al. **Food Addit Contam** 1990 Jul–Aug;7(4):555–62
Nitrosamines, food and cancer: assessment in Lyon. Craddock VM. **Food Chem Toxicol** 1990 Jan;28(1):63–5
Polycyclic aromatic hydrocarbons in Dutch total diet samples (1984–1986). de Vos RH, et al. **Food Chem Toxicol** 1990 Apr;28(4):263–8
Effect of cooking methods on the mutagenicity of food and on urinary mutagenicity of human consumers [published erratum appears in Food Chem Toxicol 1990 Feb;28(2):140] Doolittle DJ, et al. **Food Chem Toxicol** 1989 Oct; 27(10):657–66
Lack of carcinogenicity of magnesium chloride in a long–term feeding study in B6C3F1 mice. Kurata Y, et al. **Food Chem Toxicol** 1989 Sep;27(9):559–63
The carcinogenic potential of ethyl carbamate (urethane): risk assessment at human dietary exposure levels. Schlatter J, et al. **Food Chem Toxicol** 1990 Mar;28(3):205–11 (50 ref.)
Estimate of the maximal daily dietary intake of butylated hydroxyanisole and butylated hydroxytoluene in The Netherlands. Verhagen H, et al. **Food Chem Toxicol** 1990 Apr;28(4):215–20
Subchronic feeding studies with nivalenol in C57BL/6 mice. Yamamura H, et al. **Food Chem Toxicol** 1989 Sep; 27(9):585–90
Free radical generating mechanisms in the colon: their role in the induction and promotion of colorectal cancer? Blakeborough MH, et al. **Free Radic Res Commun** 1989; 6(6):359–67
The effects of dietary marine fish oils (omega–3 fatty acids) on coagulation profiles in men. Lox CD. **Gen Pharmacol** 1990;21(2):241–6
Optimal dietary prescribing in the nursing home. Opheim C, et al. **Geriatrics** 1990 Jul;45(7):66–71
Why dietary restriction may extend life: a hypothesis. Yu BP. **Geriatrics** 1989 Dec;44(12):87–90 (21 ref.)
Reproduction and organ weight responses in female rats fed a restricted balanced diet or a restricted nonprotein calorie diet with or without supplemental glutamine or cysteine. Pond WG, et al. **Growth Dev Aging** 1989 Spring–Summer; 53(1–2):17–24
How dietary restriction retards aging: an integrative hypothesis [editorial] Walford RL, et al. **Growth Dev Aging** 1989 Winter;53(4):139–40
Gastrointestinal absorption factor (f1) for Th from diet [letter; comment] Dang HS, et al. **Health Phys** 1990 Feb; 58(2):220–2 Comment on: Health Phys 1989 Feb;56(2):165–8.
Daily intake of 11 elements in relation to reference Japanese man. Shiraishi K, et al. **Health Phys** 1989 Oct;57(4):551–7
Effects of a fructose–enriched diet on plasma insulin and triglyceride concentration in SHR and WKY rats. Reaven GM, et al. **Horm Metab Res** 1990 Jul;22(7):363–5
Evaluating residence patterns among prehistoric populations: clues from dental enamel composition. Schneider KN, et al. **Hum Biol** 1990 Feb;62(1):71–83
Effect of dietary salt on the skeletal muscle microvasculature in Dahl rats [see comments] Boegehold MA, et al. **Hypertension** 1990 Apr;15(4):420–6 Comment in: Hypertension 1990 Apr;15(4):427–8.
Baroreceptor reflex impairment and mild hypertension in rats with dietary–induced obesity. Buñag RD, et al. **Hypertension** 1990 Apr;15(4):397–406
Sodium intake modulates the development of cardiac hypertrophy in two–kidney, one clip rats. Gallo A, et al. **Hypertension** 1990 Feb;15(2 Suppl):I157–60
Effects of dietary composition on growth of M. leprae in mouse footpads. Sanchez A, et al. **Indian J Lepr** 1989 Oct; 61(4):432–6
Effect of erythropoietin therapy on diet and dialysis clearances in hemodialysis patients. Kaupke CJ, et al. **Int J Artif Organs** 1990 Apr;13(4):218–22
Are energy and energy–providing nutrients related to exocrine carcinoma of the pancreas? Bueno de Mesquita HB, et al. **Int J Cancer** 1990 Sep 15;46(3):435–44
A case–control study of gastric cancer and diet in Italy: II. Association with nutrients. Buiatti E, et al. **Int J Cancer** 1990 May 15;45(5):896–901
Variations in the uptake of beta–carotene in the oral mucosa of individuals after 3 days of supplementation. Gilbert AM, et al. **Int J Cancer** 1990 May 15;45(5):855–9
A case–control study of diet and breast cancer in Argentina. Iscovich JM, et al. **Int J Cancer** 1989 Nov 15;44(5):770–6
Dietary factors and risk of lung cancer: results from a case–control study, Toronto, 1981–1985. Jain M, et al. **Int J Cancer** 1990 Feb 15;45(2):287–93
Diet, living conditions and nasopharyngeal carcinoma in Tunisia—a case–control study. Jeannel D, et al. **Int J Cancer** 1990 Sep 15;46(3):421–5
Influence of dietary fat on fecal mutagenicity in premenopausal women. Nair PP, et al. **Int J Cancer** 1990 Sep 15;46(3):374–7
Hospital versus neighbourhood controls in the assessment of dietary risk factors. González CA, et al. **Int J Epidemiol** 1990 Jun;19(2):354–61
Dietary exposures and other factors of possible prognostic significance in relation to tumour size and nodal involvement in early–stage breast cancer. Hebert JR, et al. **Int J Epidemiol** 1989 Sep;18(3):518–26
Effects of chronic low doses of d–fenfluramine on weight gain and calorie intake, brown adipose tissue thermogenic parameters and brain neurotransmitter content in rats fed chow or palatable diets. McCormack JG, et al. **Int J Obes** 1989;13(5):625–33
Dietary intake, anthropometric measurements and plasma lipid levels in throwing field athletes. Faber M, et al. **Int J Sports Med** 1990 Apr;11(2):140–5
Tolerance of weanling pigs for dietary vitamin A and D. Blair R, et al. **Int J Vitam Nutr Res** 1989;59(4):329–32
Influence of diet on cystathionine ketimine and lanthionine ketimine content in human urine. Antonucci A, et al. **Ital J Biochem** 1990 Mar–Apr;39(2):100–5
Restrained eating: an experimental disentanglement of the disinhibiting variables of perceived calories and food type. Knight LJ, et al. **J Abnorm Psychol** 1989 Nov;98(4):412–20
Effects of one year of supplementation with zinc and other micronutrients on cellular immunity in the elderly. Bogden JD, et al. **J Am Coll Nutr** 1990 Jun;9(3):214–25
Diet and insulinlike growth factor I in relation to body composition in women with exercise–induced hypothalamic amenorrhea. Crist DM, et al. **J Am Coll Nutr** 1990 Jun;9(3):200–4
Gestational alcoholism and fetal zinc accretion in Long–Evans rats. Greeley S, et al. **J Am Coll Nutr** 1990 Jun;9(3):265–71
Prevention of coronary heart disease: some results from the Oslo secondary and primary intervention studies. Leren P. **J Am Coll Nutr** 1989 Oct;8(5):407–10
Genetics and diet: synergism in hepatocarcinogenesis in rats. Melhem MF, et al. **J Am Coll Nutr** 1990 Apr;9(2):168–73
Dietary intakes and biochemical markers of selected minerals: comparison of highly trained runners and untrained women. Singh A, et al. **J Am Coll Nutr** 1990 Feb;9(1):65–75
Panoramas and perspectives. The American Dietetic Association, 73rd annual meeting. October 15–19, 1990, Denver, Colorado. Abstracts. **J Am Diet Assoc** 1990 Sep; 90(9 Suppl):A1–184
Cholesterol–saturated fat index: ESHA software has it, new egg data changes it [letter; comment] **J Am Diet Assoc** 1990 Apr;90(4):506, 512 Comment on: J Am Diet Assoc 1989 Jun;89(6):807–16.
A step–wise approach to calculating modular feedings. Brylinsky CM, et al. **J Am Diet Assoc** 1989 Oct; 89(10):1489–91
Diet intervention methods to reduce fat intake: nutrient and food group composition of self–selected low–fat diets. Buzzard IM, et al. **J Am Diet Assoc** 1990 Jan;90(1):42–50, 53
Dietary habits, health beliefs, and food practices of elderly Chinese women. Chau P, et al. **J Am Diet Assoc** 1990 Apr; 90(4):579–80
Renal transplant diet recommendations: results of a survey of renal dietitians in the United States. Edwards MS, et al. **J Am Diet Assoc** 1990 Jun;90(6):843–6
Relationships between food consumption and dietary intake among healthy volunteers and implications for meeting dietary goals. Engle A, et al. **J Am Diet Assoc** 1990 Apr; 90(4):526–30, 533
An evaluation of dietary intakes of triathletes: are RDAs being met? Green DR, et al. **J Am Diet Assoc** 1989 Nov; 89(11):1653–4
Design and implementation of a computerized diet order entry system for a hospital. Helbig LC, et al. **J Am Diet Assoc** 1990 Jan;90(1):93–6
Nutrition and the precontest preparations of a male bodybuilder. Hickson JF Jr, et al. **J Am Diet Assoc** 1990 Feb;90(2):264–7
Dietary status of trained female cyclists. Keith RE, et al. **J Am Diet Assoc** 1989 Nov;89(11):1620–3
Metabolic profiles, diet, and health practices of championship male and female bodybuilders. Kleiner SM, et al. **J Am Diet Assoc** 1990 Jul;90(7):962–7
Eating and training habits of triathletes: a balancing act. Lindeman AK. **J Am Diet Assoc** 1990 Jul;90(7):993–5
Nutritional status of HIV–infected patients during the early disease stages. McCorkindale C, et al. **J Am Diet Assoc** 1990 Sep;90(9):1236–41
Changes after taking a college basic nutrition course. Mitchell SJ. **J Am Diet Assoc** 1990 Jul;90(7):955–61
Nutritional effects of marijuana, heroin, cocaine, and nicotine. Mohs ME, et al. **J Am Diet Assoc** 1990 Sep;90(9):1261–7 (67 ref.)
The 10th edition of the Recommended Dietary Allowances: what's new in the 1989 RDAs? Monsen ER. **J Am Diet Assoc** 1989 Dec;89(12):1748–52
Zinc: consumption patterns and dietary recommendations.

Moser-Veillon PB. J Am Diet Assoc 1990 Aug; 90(8):1089–93
Developing nutrient criteria for food-specific dietary guidelines for the general public. Mullis RM, et al. J Am Diet Assoc 1990 Jun;90(6):847–51
An evaluation of food group intakes by Mexican-American children. Murphy SP, et al. J Am Diet Assoc 1990 Mar; 90(3):388–93
Supplementation patterns in marathon runners. Nieman DC, et al. J Am Diet Assoc 1989 Nov;89(11):1615–9
Daily intakes of nine nutritional elements: analyzed vs. calculated values. Pennington JA, et al. J Am Diet Assoc 1990 Mar;90(3):375–81
Hypophagia among hospitalized elderly. Rammohan M, et al. J Am Diet Assoc 1989 Dec;89(12):1774–9
Health beliefs and supplement use: adults in seven western states. Read MH, et al. J Am Diet Assoc 1989 Dec; 89(12):1812–3
Relationship of socioeconomic status and living arrangements to nutritional intake of the older person. Ryan VC, et al. J Am Diet Assoc 1989 Dec;89(12):1805–7
Low-income pregnant adolescents and their infants: dietary findings and health outcomes. Schneck ME, et al. J Am Diet Assoc 1990 Apr;90(4):555–8
A comparison of food frequency and diet recall methods in studies of nutrient intake of low-income pregnant women. Suitor CJ, et al. J Am Diet Assoc 1989 Dec; 89(12):1786–94
Characteristics of diet among a culturally diverse group of low-income pregnant women. Suitor CW, et al. J Am Diet Assoc 1990 Apr;90(4):543–9
Factors affecting food intake of women with Alzheimer's type dementia in long-term care. Suski NS, et al. J Am Diet Assoc 1989 Dec;89(12):1770–3
Lean beef: impetus for lipid modifications. Sweeten MK, et al. J Am Diet Assoc 1990 Jan;90(1):87–92 (66 ref.)
Patterns of food use and nutrient intake of obese and non-obese Hualapai Indian women of Arizona. Teufel NI, et al. J Am Diet Assoc 1990 Sep;90(9):1229–35
Dietary assessment instruments for preschool children: reliability of parental responses to the 24-hour recall and a food frequency questionnaire. Treiber FA, et al. J Am Diet Assoc 1990 Jun;90(6):814–20
Analysis of macrocomponents and fatty acids in the market basket of male adolescents in The Netherlands. van Dokkum W, et al. J Am Diet Assoc 1990 Jan;90(1):77–81
Diet and dyslexia [letter; comment] Wesson MD, et al. J Am Optom Assoc 1989 Nov;60(11):820–1 Comment on: J Am Optom Assoc 1989 Jan;60(1):10–3.
Proof of reducing cancer risks is in the eating [editorial] Allen TW. J Am Osteopath Assoc 1990 Mar;90(3):235
Effect of dietary iron content on hematologic and other measures of iron adequacy in dogs. Weeks BR, et al. J Am Vet Med Assoc 1990 Mar 1;196(5):749–53
Influence of breed and diet on growth, nutrient digestibility, body composition and plasma hormones of Brangus and Angus steers. Beaver EE, et al. J Anim Sci 1989 Sep; 67(9):2415–25
Methionine requirement of the finishing pig. Chung TK, et al. J Anim Sci 1989 Oct;67(10):2677–83
Effect of excess dietary copper, iron or zinc on the tocopherol and selenium status of growing pigs. Dove CR, et al. J Anim Sci 1990 Aug;68(8):2407–13
Effects of breed and wintering diet on heifer postweaning growth and development. Granger AL, et al. J Anim Sci 1990 Feb;68(2):304–16
Effect of dietary electrolyte balance on performance and blood parameters of growing-finishing swine fed in high ambient temperatures. Haydon KD, et al. J Anim Sci 1990 Aug;68(8):2400–6
Influence of gestation energy level on the production of Large White x Landrace sows. Hoppe MK, et al. J Anim Sci 1990 Aug;68(8):2235–42
Estimating diet digestibility: a comparison of 11 techniques across six different diets fed to rams. Judkins MB, et al. J Anim Sci 1990 May;68(5):1405–15
Effects of recombinant DNA-derived somatotropin and dietary energy intake on development of beef heifers: I. Growth and puberty. McShane TM, et al. J Anim Sci 1989 Sep;67(9):2230–6
Effects of recombinant DNA-derived somatotropin and dietary energy intake on development of beef heifers: II. Concentrations of hormones and metabolites in blood sera. McShane TM, et al. J Anim Sci 1989 Sep;67(9):2237–44
The effects of diet on water flux and volatile fatty acid concentrations in the rumen of growing beef steers fed once daily. Peters JP, et al. J Anim Sci 1990 Jun;68(6):1711–8
Alteration of nitrogen metabolism by alpha-ketoglutarate administration in growing lambs fed high nonprotein nitrogen-containing diets. van der Veen JW, et al. J Anim Sci 1989 Sep;67(9):2386–92
Feeding value of coconut alcohol bottoms-bottoms for feedlot cattle. Zinn RA. J Anim Sci 1990 Feb;68(2):478–82
Exercise training attenuates diet-induced reduction in metabolic rate. Ballor DL, et al. J Appl Physiol 1990 Jun; 68(6):2612–7
Ethane production rate in vivo is reduced with dietary restriction. Habib MP, et al. J Appl Physiol 1990 Jun; 68(6):2588–90
Dietary modification with dairy products for preventing vertebral bone loss in premenopausal women: a three-year prospective study. Baran D, et al. J Clin Endocrinol Metab 1990 Jan;70(1):264–70
Persistently elevated parathyroid hormone secretion and action in young women after four weeks of ingesting high phosphorus, low calcium diets. Calvo MS, et al. J Clin Endocrinol Metab 1990 May;70(5):1334–40
Permissive action of growth hormone on the renal response to dietary phosphorus deprivation. Harbison MD, et al. J Clin Endocrinol Metab 1990 Apr;70(4):1035–40
Rationale of feeding systems for lactating dairy cows. Johnson CL, et al. J Dairy Res 1990 May;57(2):151–64 (15 ref.)
Lactational evaluation of recombinant bovine somatotropin with corn and barley diets. Eisenbeisz WA, et al. J Dairy Sci 1990 May;73(5):1269–79
Effect of dietary components on the indigenous oral bacterial flora of BALB/c mice. Blais JF, et al. J Dent Res 1990 Mar;69(3):868–73
Differences in the rate of molar wear between monkeys raised on different diets. Teaford MF, et al. J Dent Res 1989 Nov; 68(11):1513–8
Subchronic toxicology studies of hexachloro-1,3-butadiene (HCBD) in B6C3F1 mice by dietary incorporation. Yang RS, et al. J Environ Pathol Toxicol Oncol 1989 Jul-Aug; 9(4):323–32
Maternal diet and atopic eczema [letter] Badrinath P. J Epidemiol Community Health 1990 Jun;44(2):174
Changes in diet and coronary heart disease mortality among social classes in Great Britain. Morgan M, et al. J Epidemiol Community Health 1989 Jun;43(2):162–7
Relationship of cecal and colonic motility to diet, habitat, and cecal anatomy in several avian species. Duke GE. J Exp Zool Suppl 1989;3:38–47
The association between dietary intake and reported history of Candida vulvovaginitis. Reed BD, et al. J Fam Pract 1989 Nov;29(5):509–15
Life span, morphology, and pathology of diet-restricted germ-free and conventional Lobund-Wistar rats. Snyder DL, et al. J Gerontol 1990 Mar;45(2):B52–8
Long-term nopharmacological treatment for mild to moderate hypertension. Jula A, et al. J Intern Med 1990 Jun;227(6):413–21
The effect of serum lipid regulation on the development of femoral atherosclerosis in hyperlipidaemia: a non-randomized controlled study. Olsson AG, et al. J Intern Med 1990 Jun;227(6):381–90
Bacillus thuringiensis potency bioassays against Heliothis armigera, Earias insulana, and Spodoptera littoralis larvae based on standardized diets. Navon A, et al. J Invertebr Pathol 1990 May;55(3):387–93
Dietary fish oil intake: effects on glomerular prostanoid formation, hemodynamics, and proteinuria in nephrotoxic serum nephritis. Thaiss F, et al. J Lab Clin Med 1990 Aug; 116(2):172–9
Dietary influences on serum lipids and lipoproteins. Grundy SM, et al. J Lipid Res 1990 Jul;31(7):1149–72 (238 ref.)
Dietary intervention in the clinical prevention of ischemic heart disease. Jamison JR. J Manipulative Physiol Ther 1990 Jun;13(5):247–52
Dietary effects on cardiac metabolic properties in rodents. Haddad F, et al. J Mol Cell Cardiol 1990 Mar;22(3):353–9
Dietary factors and risk of breast cancer: combined analysis of 12 case-control studies. Howe GR, et al. J Natl Cancer Inst 1990 Apr 4;82(7):561–9
Relationships of estrogen to breast cancer, of diet to breast cancer, and of diet to estradiol metabolism [editorial] Longcope C. J Natl Cancer Inst 1990 Jun 6;82(11):896–7
Diet, physical activity, and colorectal cancer among Chinese in North America and China. Whittemore AS, et al. J Natl Cancer Inst 1990 Jun 6;82(11):915–26
Effect of dietary homocysteine on copper status in rats. Brown JC, et al. J Nutr 1990 Sep;120(9):1068–74
Modulation of selenium-dependent glutathione peroxidase by perfluorodecanoic acid in rats: effect of dietary selenium. Chen LC, et al. J Nutr 1990 Mar;120(3):298–304
Nutritional control of rat liver fatty acid synthase and S14 mRNA abundance. Clarke SD, et al. J Nutr 1990 Feb; 120(2):218–24
Tissue trimethyllysine biosynthesis and carnitine content in pregnant and lactating rats fed a lysine-limiting diet. Davis AT. J Nutr 1990 Aug;120(8):846–56
Biochemical markers for assessment of niacin status in young men: levels of erythrocyte niacin coenzymes and plasma tryptophan. Fu CS, et al. J Nutr 1989 Dec;119(12):1949–55
Hepatic poly(ADP ribose) polymerase activity in methyl donor-deficient rats. Henning SM, et al. J Nutr 1989 Oct; 119(10):1528–31
Hepatic content of S-adenosylmethionine, S-adenosylhomocysteine and glutathione in rats receiving treatments modulating methyl donor availability. Henning SM, et al. J Nutr 1989 Oct;119(10):1478–82
Effect of processing on fate of dietary [14C]taurine in cats. Hickman MA, et al. J Nutr 1990 Sep;120(9):995–1000
Dietary supplements of vitamin E, beta-carotene, coenzyme Q10 and selenium protect tissues against lipid peroxidation in rat tissue slices. Leibovitz B, et al. J Nutr 1990 Jan; 120(1):97–104
Recommended amounts of nutrients do not abate the toxic effects of an alcohol dose that sustains significant blood levels of ethanol [comment] Lieber CS, et al. J Nutr 1989 Dec;119(12):2038–40 Comment on: J Nutr 1989 Aug;119(8):1228–30.
Time-course studies of pancreatic exocrine damage induced by excess dietary zinc in the chick. Lü JX, et al. J Nutr 1990 Apr;120(4):389–97
Effects of chronic ethanol and diet treatment on urinary folate excretion and development of folate deficiency in the rat. McMartin KE, et al. J Nutr 1989 Oct; 119(10):1490–7
Endogenous zinc excretion in relation to various levels of dietary zinc intake in the mink (Mustela vison). Mejborn H. J Nutr 1990 Aug;120(8):862–8
Dietary energy restriction decreases ex vivo spleen prostaglandin E2 synthesis in Emory mice. Meydani SN, et al. J Nutr 1990 Jan;120(1):112–5
Effect of dietary taurine on renal taurine transport by proximal tubule brush border membrane vesicles in the kitten. Park T, et al. J Nutr 1989 Oct;119(10):1452–60
Influence of dietary undetermined anion on acid-base status and performance in pigs. Patience JF, et al. J Nutr 1990 Jun;120(6):579–87
Effect of dietary restriction on the age-dependent changes in the expression of antioxidant enzymes in rat liver. Rao G, et al. J Nutr 1990 Jun;120(6):602–9
Phosphorus-induced nephrocalcinosis and kidney function in female rats. Ritskes-Hoitinga J, et al. J Nutr 1989 Oct; 119(10):1423–31
Comparative toxicity and tissue retention of selenium in methionine-deficient rats fed sodium selenate or L-selenomethionine. Salbe AD, et al. J Nutr 1990 Feb; 120(2):207–12
Effect of dietary proline on proline metabolism in the neonatal pig. Samuels SE, et al. J Nutr 1989 Dec; 119(12):1900–6
Effects of foods rich in polyphenols on nitrogen excretion in rats. Shahkhalili Y, et al. J Nutr 1990 Apr;120(4):346–52
The effect of the progression of vitamin A deficiency on glucose, galactose and mannose incorporation into sugar phosphates and sugar nucleotides in hamster liver. Shankar S, et al. J Nutr 1990 Apr;120(4):361–74
Do dietary levels of pantothenic acid regulate its intestinal uptake in mice? Stein ED, et al. J Nutr 1989 Dec; 119(12):1973–83
Dietary disproportions of amino acids in the rat: effects on food intake, plasma and brain amino acids and brain serotonin. Tackman JM, et al. J Nutr 1990 May; 120(5):521–33
Comparison between physiological effects of konjac-glucomannan and propionate in baboons fed "Western" diets. Venter CS, et al. J Nutr 1990 Sep; 120(9):1046–53
Dietary phenolic compounds: inhibition of Na+-dependent D-glucose uptake in rat intestinal brush border membrane vesicles. Welsch CA, et al. J Nutr 1989 Nov; 119(11):1698–704
Milk consumption and zinc retention in postmenopausal women. Wood RJ, et al. J Nutr 1990 Apr;120(4):398–403
Effects of Spirulina platensis on plasma lipoprotein lipase activity in fructose-induced hyperlipidemic rats. Iwata K, et al. J Nutr Sci Vitaminol (Tokyo) 1990 Apr;36(2):165–71
Effect of a histidine-excess diet on a tetrahydrofolylpolyglutamate pattern in rat liver. Kohashi M, et al. J Nutr Sci Vitaminol (Tokyo) 1990 Feb;36(1):11–9
Simultaneous multielement analysis of diet samples by inductively coupled plasma mass spectrometry and inductively coupled plasma atomic emission spectrometry. Shiraishi K, et al. J Nutr Sci Vitaminol (Tokyo) 1990 Feb; 36(1):81–6
Influence of various dry bean fractions, c.v. Carioca 80, on diet efficiency and dietary protein utilization. Valenzuela MR, et al. J Nutr Sci Vitaminol (Tokyo) 1990 Apr; 36(2):141–51
Adaptive remodeling of the rabbit temporomandibular joint following discectomy and dietary variations. Block MS, et al. J Oral Maxillofac Surg 1990 May;48(5):482–6
Diet-induced alterations of lipids during cell differentiation in the small intestine of growing rats: effect of an essential fatty acid deficiency. Alessandri JM, et al. J Pediatr Gastroenterol Nutr 1990 May;10(4):504–15
Serum antibodies to dietary antigens: a prospective study of the diagnostic usefulness in celiac disease of children. Scott H, et al. J Pediatr Gastroenterol Nutr 1990 Aug; 11(2):215–20
Effect of dietary nucleosides on growth and maturation of the developing gut in the rat. Uauy R, et al. J Pediatr Gastroenterol Nutr 1990 May;10(4):497–503
Influence of host diet on the fatty acid composition and content of rumen protozoa in cattle. O'Kelly JC, et al. J Protozool 1990 May-Jun;37(3):190–3
Effect of fish oil supplementation and exercise on serum lipids and aerobic fitness. Brilla LR, et al. J Sports Med Phys Fitness 1990 Jun;30(2):173–80
Diet and urinary estrogen profile in premenopausal omnivorous and vegetarian women and in premenopausal women with breast cancer. Adlercreutz H, et al. J Steroid Biochem 1989;34(1-6):527–30
Glutamine-enriched diets support muscle glutamine metabolism without stimulating tumor growth. Klimberg VS, et al. J Surg Res 1990 Apr;48(4):319–23
Dietary modulation of small intestinal glutamine transport in intestinal brush border membrane vesicles of rats. Salloum RM, et al. J Surg Res 1990 Jun;48(6):635–8
Dietary intake and habits of Japanese renal stone patients. Iguchi M, et al. J Urol 1990 Jun;143(6):1093–5
Effect of diet on condition indices in black-tailed jackrabbits.

Henke SE, et al. **J Wildl Dis** 1990 Jan;26(1):28–33

International conference gives boost in including omega fatty acids in diet [news] Marwick C. **JAMA** 1990 Apr 25; 263(16):2153–4

Changes brewing for food labels as national concern about diet and health continues to grow [news] Marwick C, et al. **JAMA** 1989 Nov 3;262(17):2354–5

Effects of glutamine-supplemented diets on immunology of the gut. Alverdy JC. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4 Suppl):109S–113S (32 ref.)

Dietary nucleotide effects upon murine natural killer cell activity and macrophage activation. Carver JD, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):18–22

The taurine content of common foodstuffs [published erratum appears in JPEN J Parenter Enteral Nutr 1990 Jul–Aug;14(4):380] Laidlaw SA, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):183–8

Inhibition by dietary benzylselenocyanate of hepatocarcinogenesis induced by azoxymethane in Fischer 344 rats. Sugie S, et al. **Jpn J Cancer Res** 1989 Oct; 80(10):952–7

Summary of National Nutrition Survey 1980–1984 by prefecture. Yamaguchi M, et al. **Jpn J Clin Oncol** 1990 Mar;20(1):113–20

Insulin in the acute renal adaptation to dietary phosphate restriction in the rat. Allon M, et al. **Kidney Int** 1990 Jan; 37(1):14–20

Henry Bence Jones (1813–1873): on the influence of diet on urine composition. Including a previously unpublished treatise on the subject and a bibliography of his writings. Fine LG. **Kidney Int** 1990 Mar;37(3):1019–25

Nutritional status of patients with different levels of chronic renal insufficiency. Modification of Diet in Renal Disease (MDRD) Study Group. Kopple JD, et al. **Kidney Int Suppl** 1989 Nov;27:S184–94

The Verona experience on the effect of diet on progression of renal failure. Oldrizzi L, et al. **Kidney Int Suppl** 1989 Nov;27:S103–5

Nutrition and kidney calcification in rats. Ritskes-Hoitinga J, et al. **Lab Anim** 1989 Oct;23(4):313–8

Diet-induced nephrocalcinosis and urinary excretion of albumin in female rats. Van Camp I, et al. **Lab Anim** 1990 Apr;24(2):137–41

Preventing heart disease [letter] Silverstein HR. **Lancet** 1990 Jan 27;335(8683):227

Size variations in the lateral intercellular spaces of the endolymphatic sac induced by dietary factors. Wackym PA, et al. **Laryngoscope** 1990 Mar;100(3):217–22

Neuroendocrine and behavioral effects of dietary tryptophan restriction in healthy subjects. Delgado PL, et al. **Life Sci** 1989;45(24):2323–32

The effect of alfalfa-corn diets on cholesterol metabolism and gallstones in prairie dogs. Cohen BI, et al. **Lipids** 1990 Mar;25(3):143–8

Maternal magnesium intake and pregnancy outcome. Doyle W, et al. **Magnes Res** 1989 Sep;2(3):205–10

Recommended dietary amounts of magnesium: Mg RDA. Durlach J. **Magnes Res** 1989 Sep;2(3):195–203 (47 ref.)

Consequences of low dietary magnesium and high dietary calcium on pregnancy outcome and tissue mineralization in rats. Pinkham CS, et al. **Magnes Res** 1988 Dec; 1(3–4):147–53

Sudden infant death syndrome, temperature and diet [letter; comment] Holborow P. **Med J Aust** 1990 May 21; 152(10):558–9 Comment on: Med J Aust 1989 Oct 2;151(7):361.

Combined effects of aerobic exercise and omega-3 fatty acids in hyperlipidemic persons. Warner JG Jr, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):498–505

The effect of diet on tumor necrosis factor stimulation of hepatic lipogenesis. Feingold KR, et al. **Metabolism** 1990 Jun;39(6):623–32

Follow-up study of early-life protective and risk factors in Parkinson's disease. Golbe LI, et al. **Mov Disord** 1990; 5(1):66–70

Human nutrition—paradoxes of drugs and diet. Scott PJ. **N Z Dent J** 1990 Jan;86(383):9–14 (11 ref.)

Childhood asthma: what do parents add or avoid in their children's diets? Dawson KP, et al. **N Z Med J** 1990 May 23;103(890):239–40

Diet and behaviour [letter] Welch JC. **N Z Med J** 1989 Dec 13;102(881):650

Nutritive utilization of protein and digestive utilization of fat in two commercial diets designed for clinical enteral nutrition. Alférez MJ, et al. **Nahrung** 1990;34(6):499–507

Influence of medium chain triglycerides and vitamin D3 on digestive and metabolic utilization of protein in rats with intestinal resection. Aliaga IL, et al. **Nahrung** 1990; 34(2):181–8

Response of adult rats to lysine supplementation. Mekhael KG, et al. **Nahrung** 1989;33(7):625–30

Dietary influence of the hepatic lipid peroxidation in two strains of rats. Wachnik A, et al. **Nahrung** 1989;33(7):687–9

Dietary restriction suppresses age-related changes in dendritic spines. Moroi-Fetters SE, et al. **Neurobiol Aging** 1989 Jul–Aug;10(4):317–22 (48 ref.)

Dietary erucic acid therapy for X-linked adrenoleukodystrophy. Rizzo WB, et al. **Neurology** 1989 Nov;39(11):1415–22

Renal function and urinary prostaglandins in rats given an adenine diet. Yokozawa T, et al. **Nippon Jinzo Gakkai Shi** 1989 Jun;31(6):671–5

Factors affecting 1H NMR spectra of blood plasma: cancer, diet and freezing. Bell JD, et al. **NMR Biomed** 1988 Apr; 1(2):90–4

Effects of chronic beta-carotene supplementation on vitamin K status in adults. Canfield LM, et al. **Nutr Cancer** 1990; 13(4):263–9

Enhancement of immune status by high levels of dietary vitamin B-6 without growth inhibition of human malignant melanoma in athymic nude mice. Gebhard KJ, et al. **Nutr Cancer** 1990;14(1):15–26

Diet in the epidemiology of gastric cancer. Graham S, et al. **Nutr Cancer** 1990;13(1–2):19–34

Correlations of dietary intake and blood nutrient levels with esophageal cancer mortality in China. Guo WD, et al. **Nutr Cancer** 1990;13(3):121–7

Estradiol binding to plasma proteins after changing to a low-fat diet. Ingram D, et al. **Nutr Cancer** 1989; 12(4):327–32

Antitumor activity in skin of Skh and Sencar mice by two dietary beta-carotene formulations. Lambert LA, et al. **Nutr Cancer** 1990;13(4):213–21

Investigation into the effect of DHEA on renal carcinogenesis induced in the rat by a single dose of DMN. Ogiu T, et al. **Nutr Cancer** 1990;14(1):57–67

Does zinc supplementation improve growth in children who fail to thrive? **Nutr Rev** 1989 Nov;47(11):356–8 (6 ref.)

Fish oil and interleukin-1—induced anorexia. **Nutr Rev** 1990 May;48(5):221–2 (9 ref.)

Effect of wheat fiber and vitamins C and E supplements on rectal polyps in patients at high risk for colon cancer. **Nutr Rev** 1990 May;48(5):218–20

Proceedings of the Royal Society of London. Series B—Biological Sciences, Volume 119, 1935–1936: Experimental sodium chloride deficiency in man [classical article] McCance RA. **Nutr Rev** 1990 Mar;48(3):145–7

Effect of the composition of the diet on energy intake. Pi-Sunyer FX. **Nutr Rev** 1990 Feb;48(2):94–105; discussion 114–31 (64 ref.)

Vitamin A and lung cancer. Willett WC. **Nutr Rev** 1990 May; 48(5):201–11 (49 ref.)

Dieter's guide to dining out (or how to give your patients a conscience). Kirk K. **Ohio Med** 1990 Mar;86(3):202–3, 206

Reading between the lines. Kirk K. **Ohio Med** 1990 Mar; 86(3):200

Cold-induced and diet-induced thermogenesis in progesterone-treated rats. Nava MP, et al. **Pflugers Arch** 1990 Mar;415(6):747–50

Dietary modulation of the anorectic potency of amphetamine. Marks-Kaufman R, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):301–6

Diet selection following a chronic morphine and naloxone regimen. Marks-Kaufman R, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):665–9

Norleucine: a branched-chain amino acid analog affecting feeding behavior of rats. Tews JK, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):911–21

Body composition of the broiler-breeder pullet. Bennett CD, et al. **Poult Sci** 1990 May;69(5):715–20

An evaluation of a stepdown amino-acid feeding program for commercial pullets to 20 weeks of age. Douglas CR, et al. **Poult Sci** 1990 May;69(5):763–7

Dietary requirements of leucine, isoleucine, and valine in male broilers during the starter period. Farran MT, et al. **Poult Sci** 1990 May;69(5):757–62

Relationships among mineral balance in the diet, early growth manipulation, and incidence of tibial dyschondroplasia in different strains of meat type chickens. Lilburn MS, et al. **Poult Sci** 1989 Sep;68(9):1263–73

Growth and development of broiler breeders. 2. Independent effects of dietary formulation versus body weight on skeletal and muscle growth. Lilburn MS, et al. **Poult Sci** 1989 Sep;68(9):1274–81

Response of male poults to high levels of dietary niacinamide. Maurice DV, et al. **Poult Sci** 1990 Apr;69(4):661–8

Response of four broiler strains to dietary phosphorus above and below the requirement when brooded at two temperatures. Orban JI, et al. **Poult Sci** 1990 Mar; 69(3):440–5

The influence of dietary tryptophan on broiler chick growth and lipid metabolism as mediated by dietary protein levels. Rogers SR, et al. **Poult Sci** 1990 May;69(5):746–56

Niacin requirement of broiler chickens fed a corn–soybean meal diet from 1 to 21 days of age. Ruiz N, et al. **Poult Sci** 1990 Mar;69(3):433–9

Back to school. Part 2. Scott-Moncrieff C. **Practitioner** 1989 Sep 22;233(1475):1229

The eating habits of schoolchildren. Taitz L. **Practitioner** 1989 Sep 22;233(1475):1237–8, 1240–1

Prolactin effects on the dietary regulation of mouse mammary tumor virus proviral DNA expression. Hamada N, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6733–7

Calorie consumption level influences development of C3H/Ou breast adenocarcinoma with indifference to calorie source. Engelman RW, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):23–30

Chronic dietary restriction and longevity. Johnson BC, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):4–5 (14 ref.)

Assessment of nutritional components in prolongation of life and health by diet. Masoro EJ. **Proc Soc Exp Biol Med** 1990 Jan;193(1):31–4

Effects of dietary tin and copper on rat hepatocellular antioxidant protection. Reicks M, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):123–8

Mechanism of food restriction: protection of cellular homeostasis. Yu BP, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):13–5

Diet as a source of inhibitors of mutagenesis. Chauhan PS, et al. **Prog Clin Biol Res** 1990;340E:339–49 (62 ref.)

Effect of dietary riboflavin on retinal density and flavin concentrations in normal and dystrophic RCS rats. Eckhert CD, et al. **Prog Clin Biol Res** 1989;314:331–41

The American Cancer Society's strategic plan for dietary change. Loeb V Jr, et al. **Prog Clin Biol Res** 1990; 346:255–62 (8 ref.)

Implications of recent Australian epidemiological studies for cancer prevention through dietary change. MacLennan R. **Prog Clin Biol Res** 1990;346:35–44 (15 ref.)

Omega-3 fatty acids in health and disease. Simopoulos AP. **Prog Clin Biol Res** 1990;326:129–56 (62 ref.)

Dietary genotoxins and the human colonic microflora. Van Tassell RL, et al. **Prog Clin Biol Res** 1990;340E:149–58 (27 ref.)

Diet and cancer. Visek WJ. **Prog Clin Biol Res** 1990; 326:301–20 (56 ref.)

Clinical trials of dietary interventions to enhance cancer survival. Wynder EL, et al. **Prog Clin Biol Res** 1990; 346:217–29 (55 ref.)

Brown adipose tissue thermogenesis and obesity. Himms-Hagen J. **Prog Lipid Res** 1989;28(2):67–115 (626 ref.)

Formation of PGI3 in the rat during dietary fish oil supplementation. Knapp HR, et al. **Prostaglandins** 1989 Nov;38(5):509–21

The effect of various nutrients on eicosanoid synthesis [editorial] Mikhailidis DP, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(4):213–4

Attempts at dietary alteration of prostaglandin pathways in the management of pre-eclampsia. Moodley J, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):145–7

Eat for health: a nutrition and cancer control supermarket intervention. Light L, et al. **Public Health Rep** 1989 Sep–Oct;104(5):443–50

Promoting healthy diets and active lives to hard-to-reach groups: market research study. White SL, et al. **Public Health Rep** 1990 May–Jun;105(3):224–31

GIP and insulin release in relation to gastric emptying of a mixed meal in man. Fried M, et al. **Regul Pept** 1989 Dec; 26(3):305–12

Of Lucy, diet, fiber, and white horses... [editorial] Gori GB. **Regul Toxicol Pharmacol** 1990 Feb;11(1):1–2

Toxicological evaluation of food additives. Toxicological evaluation over estimation of potential high intake to permitted levels of use of food additives and vice versa. Hansen SC. **Regul Toxicol Pharmacol** 1990 Feb;11(1):3–7

Dietary eicosapentaenoic acid does not modify cyclosporin-induced inhibition of angiotensin II-stimulated prostaglandin synthesis in mesangial cells. Walker RJ, et al. **Ren Fail** 1989;11(2–3):125–32

Effects of low-potassium diet on N-ethylmaleimide-sensitive ATPase in the distal nephron segments. Garg LC, et al. **Renal Physiol Biochem** 1990 May–Jun;13(3):129–36

An evaluation of the method used in digestibility estimations of a dietary ingredient and comparisons on external and internal markers, and time of faeces collection in digestibility studies in the fish Oreochromis aureus (Steindachner). De Silva SS, et al. **Reprod Nutr Dev** 1990; 30(2):215–26

Lowering of plasma cholesterol in herbivores and omnivores by low molecular weight dextran. Adam O, et al. **Res Exp Med (Berl)** 1989;189(4):241–7

Effects of age and diet on small intestinal structure and function in gnotobiotic piglets. Hall GA, et al. **Res Vet Sci** 1989 Nov;47(3):387–92

Effects of diets of high sulphur content and varied concentrations of copper, molybdenum and thiamine on in vitro phagocytic and candidacidal activity of neutrophils in sheep. Olkowski AA, et al. **Res Vet Sci** 1990 Jan; 48(1):82–6

Effect of the raw legume Vicia ervilia on muscle and liver protein metabolism in growing rats. Goena M, et al. **Rev Esp Fisiol** 1989;45 Suppl:55–9

A reappraisal of the nutritional utilization of legumes. Larralde J, et al. **Rev Esp Fisiol** 1989;45 Suppl:225–32 (72 ref.)

Effect of feeding raw legumes on intestinal absorption: a short review. Marzo F, et al. **Rev Esp Fisiol** 1989;45 Suppl:203–6 (28 ref.)

Lack of effect of dietary potassium on renal lithium clearance in man. Hla-Yee-Yee, et al. **Scand J Clin Lab Invest** 1990 Jun;50(4):379–83

Diet: opportunities and limitations. Leth A. **Scand J Clin Lab Invest Suppl** 1990;199:60–2 (5 ref.)

Does nutritional therapy in inflammatory bowel disease have a primary or an adjunctive role? O'Morain CA. **Scand J Gastroenterol Suppl** 1990;172:29–34 (44 ref.)

Dietary difference and microwear on the teeth of late stone age and early modern people from western Japan. Hojo T. **Scanning Microsc** 1989 Jun;3(2):623–8

Essentiality of chromium in humans. Anderson RA. **Sci Total Environ** 1989 Oct 1;86(1–2):75–81

The quantification of dietary intake, digestion and metabolism

in farm livestock and its relevance to the study of radionuclide uptake. Mayes RW. **Sci Total Environ** 1989 Sep;85:29–51

Cadmium deposition and hepatic microsomal activity in mice fed Swiss chard grown on municipal incinerator refuse ash. Stoewsand GS, et al. **Sci Total Environ** 1990 May 15; 94(3):253–9

Watching the dietary detectives [news] Gibbons A. **Science** 1990 Jun 8;248(4960):1188–9

Dietary intake, absorption, metabolism, and excretion of oxalate. Williams AW, et al. **Semin Nephrol** 1990 Jan; 10(1):2–8 (74 ref.)

Nutrition and esophageal cancer. Santhi Swaroop V, et al. **Semin Surg Oncol** 1989;5(5):370–2

Nutritional aspects of wound healing. Crane SW. **Semin Vet Med Surg (Small Anim)** 1989 Nov;4(4):263–7 (40 ref.)

Effects of nutrition on gastric secretion and mucosal ulceration in primates. Gertner MH, et al. **Surg Forum** 1978; 29:416–8

Diet-induced pancreatitis in mice: effect of glucagon on mortality and pancreatic function. Manabe T, et al. **Surg Forum** 1978;29:454–6

Effect of an elemental diet on canine pancreatic autografts. Traverso LW, et al. **Surg Forum** 1978;29:378–9

Effects of monomeric and polymeric diets on small intestine following massive resection. Lai HS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Oct;88(10):982–8

Age-specific optimal diets and optimal foraging tactics: a life-historic approach. Engen S, et al. **Theor Popul Biol** 1989 Dec;36(3):281–95

Blood collection in strong acidic citrate anticoagulant used in a study of dietary influence on basal tPA activity. Rånby M, et al. **Thromb Haemost** 1989 Nov 24;62(3):917–22

Effects of sulfur-amino acid-deficient diets on acetaminophen metabolism and hepatotoxicity in rats. Price VF, et al. **Toxicol Appl Pharmacol** 1989 Nov;101(2):356–69

L-azaserine induced preneoplasia in the rat pancreas. A morphometric study of dietary manipulation (lipotrope deficiency) and ultrastructural differentiation. Andry CD, et al. **Toxicol Pathol** 1990;18(1 Pt 1):10–7

Biochemical toxicology of argemone oil. IV. Short-term oral feeding response in rats. Upreti KK, et al. **Toxicology** 1989 Oct 16;58(3):285–98

This and that: on artificial fats and the first effective treatment for fits. Max B. **Trends Pharmacol Sci** 1990 Jun;11(6):225–9

Methodological issues in a multicentric study of gastric cancer and diet in Italy: study design, data sources and quality controls. Buiatti E, et al. **Tumori** 1989 Oct 31; 75(5):410–9

Risk of breast cancer, diet and internal migrations in northern Italy. Toniolo P, et al. **Tumori** 1989 Oct 31;75(5):406–9

Dietary aspects of developmental orthopedic disease in young horses. Kronfeld DS, et al. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):451–65 (43 ref.)

Circulating lymphocytes, neutrophils and immune complexes in pigs after feeding. Morgan KL, et al. **Vet Immunol Immunopathol** 1989 Jul;21(3–4):373–8

The relationship between carcass characteristics, plasma hormones and metabolites in young fattening bulls. Istasse L, et al. **Vet Res Commun** 1990;14(1):19–26

The fattening room revisited [editorial] Brink PJ. **West J Nurs Res** 1990 Apr;12(2):143–4

Estimating nutritional intake in nursing home residents. Langer E, et al. **Wis Med J** 1989 Dec;88(12):23–5

Relationship between ascorbic acid and male fertility. Dawson EB, et al. **World Rev Nutr Diet** 1990;62:1–26

Cancer: genetic and nutritional aspects. Friend S. **World Rev Nutr Diet** 1990;63:131–42 (8 ref.)

Glucosinolates toxicity in growing rats: interactions with the hepatic detoxification system. Nugon-Baudon L, et al. **Xenobiotica** 1990 Feb;20(2):223–30

Induction of monooxygenase and transferase activities in rat by dietary administration of flavonoids. Siess MH, et al. **Xenobiotica** 1989 Dec;19(12):1379–86

Speciation of arsenic in Dutch total diets: methodology and results. Vaessen HA, et al. **Z Lebensm Unters Forsch** 1989 Sep;189(3):232–5

Distribution of lipid in hepatic tissue of dairy goats in positive and negative energy balance. Skaar TC, et al. **Zentralbl Veterinarmed [A]** 1989 Aug;36(7):555–8

[Atrophied gastritis and diet case-control study] Li HQ. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Aug; 10(4):227–30 (Eng. Abstr.) (Chi)

[Selective survey of lifestyle habits within families] Klíma J, et al. **Cesk Zdrav** 1990 Apr;38(4):165–72 (Eng. Abstr.) (Cze)

[Evaluation of the basic health care pilot project of the Turnhout area] Truyen C, et al. **Arch Belg** 1989; 47(1–4):11–5 (Eng. Abstr.) (Dut)

[Feeding, pathology and productivity of the dairy cow: interrelations during the course of lactation] Coulon JB, et al. **Ann Rech Vet** 1990;21(1):33–47 (Eng. Abstr.) (Fre)

[Space diet] Luigi R. **Bull Acad Natl Med** 1989 Jun; 173(6):693–700 (Eng. Abstr.) (Fre)

[Influence of the Scandinavian dissociated diet regime on the structure of sleep in athletes] Francart AL, et al. **C R Soc Biol (Paris)** 1989;183(5):467–73 (Eng. Abstr.) (Fre)

[Celiac disease and a gluten-free diet] Rampal P, et al. **Gastroenterol Clin Biol** 1990;14(2 (Pt 3)):T22–5 (20 ref.) (Fre)

[Protein metabolism in the newborn lamb. IV. Consequences of amino acid and lactose ingestion] Patureau Mirand P, et al. **Reprod Nutr Dev** 1990;30(2):203–14 (Eng. Abstr.) (Fre)

[In what way does the diet of our children affect oral-dental health? Results of a survey on the diet of school children in Louvain] Vinckier F, et al. **Rev Belge Med Dent** 1989; 44(1):89–97 (Eng. Abstr.) (Fre)

[Nutrition and oligo-elements during the course of pregnancy. Conference organized by the French Society for Study and Research on Essential Trace Elements] **Rev Fr Gynecol Obstet** 1990 Jan;85(1):1–55 (Fre)

[Iron deficiency in pregnancy] Hercberg S, et al. **Rev Fr Gynecol Obstet** 1990 Jan;85(1):5–12 (68 ref.) (Eng. Abstr.) (Fre)

[General nutrition of pregnant women] Thoulon-Page C. **Rev Fr Gynecol Obstet** 1990 Jan;85(1):1–3 (Eng. Abstr.) (Fre)

[Why and how can non-pharmacological treatment of arterial hypertension be accomplished?] Krzesinski JM. **Rev Med Liege** 1989 Dec 15;44(24):741–5 (15 ref.) (Fre)

[Hemorrhoids: dietary factors] Dard D, et al. **Rev Med Suisse Romande** 1990 Apr;110(4):381–4 (Fre)

[Nutrition and food on youths' hikes in the first 3d of the 20th century] Grimm H. **Arztl Jugendkd** 1990;81(2):128–38 (Eng. Abstr.) (Ger)

[Blood pressure and nutrition] Greminger P. **Dtsch Med Wochenschr** 1989 Nov 3;114(44):1717–9 (18 ref.) (Ger)

[Effect of a follow-up action in diet instruction] Hany S, et al. **Schweiz Rundsch Med Prax** 1990 Jun 5;79(23):719–25 (Eng. Abstr.) (Ger)

[Accomplishments of health consciousness on nutrition behavior. results of a representative inquiry] Schoberberger R, et al. **Wien Klin Wochenschr** 1989 Dec 8;101(23):816–21 (Eng. Abstr.) (Ger)

[The effect of a supplement of citric acid on the bioavailability of zinc from corn germ] Pallauf J, et al. **Z Ernahrungswiss** 1990 Mar;29(1):27–38 (Eng. Abstr.) (Ger)

[Nutritional hygiene in the prevention of dental decay: thoughts about weight gain in children in elementary schools] Sebastiani Annicchiarico L, et al. **Ann Ig** 1989 May-Aug;1(3–4):447–58 (Eng. Abstr.) (Ita)

[Optimal preparation of the colon for elective surgery. A personal proposal] Picardi N. **Ann Ital Chir** 1989; 60(3):157–62 (21 ref.) (Eng. Abstr.) (Ita)

[Clearance of oxypurines in normal subjects and in gout patients subjected to a purine-free diet. Effects of allopurinol] Porcelli B, et al. **Boll Soc Ital Biol Sper** 1989 Nov;65(11):1105–10 (Eng. Abstr.) (Ita)

[Quick freezing in the preparation of special hospital diets] Zarlottin S, et al. **Minerva Dietol Gastroenterol** 1989 Oct-Dec;35(4):277–81 (Eng. Abstr.) (Ita)

[25 atopic dermatitis patients with positive RAST for rice were treated with a rice elimination diet (the mean duration of elimination: 5.2 months). The clinical effects and the change in RAST for rice and wheat, serum IgE values and the number of eosinophils were examined] Komatsu H, et al. **Arerugi** 1990 Apr;39(4):402–9 (Eng. Abstr.) (Jpn)

[Extents of daily activities allowed in chronic hepatitis and liver cirrhosis] Murai K, et al. **Fukuoka Igaku Zasshi** 1989 Aug;80(8):422–4 (Jpn)

[A case control study of breast cancer, mammary cyst and dietary, drinking or smoking habit in Japan] Kikuchi S, et al. **Gan No Rinsho** 1990 Feb;Spec No:365–9 (Eng. Abstr.) (Jpn)

[Stomach cancer mortality and nutrition intake in northern Japan—especially on relation to sodium chloride] Komatsu S, et al. **Gan No Rinsho** 1990 Feb;Spec No:275–84 (Eng. Abstr.) (Jpn)

[A dietary method for epidemiological study of cancer] Kono S, et al. **Gan No Rinsho** 1990 Feb;Spec No:409–15 (Eng. Abstr.) (Jpn)

[Familial history of cancer and dietary pattern, serum cholesterol, serum protein and blood hemoglobin] Yamaguchi N, et al. **Gan No Rinsho** 1990 Feb;Spec No:377–81 (Eng. Abstr.) (Jpn)

[Lung cancer, diet and nutrition] Miyamoto H, et al. **Kokyu To Junkan** 1990 Jun;38(6):506–15 (89 ref.) (Jpn)

[Determinations of silicon and phosphorus in rice planted in a district of high incidence of amyotrophic lateral sclerosis by neutron activation and X-ray fluorescence analyses] Mizumoto Y, et al. **Radioisotopes** 1989 Dec; 38(12):509–12 (Eng. Abstr.) (Jpn)

[Effect of various cadmium doses in the diet on the body of growing rats] Sakowska E, et al. **Rocz Panstw Zakl Hig** 1989;40(4–6):313–9 (Eng. Abstr.) (Pol)

[Rational nutrition under the effect of occupational noise on the body] Dotsenko VA, et al. **Gig Tr Prof Zabol** 1990; (6):35–8 (Eng. Abstr.) (Rus)

[Various new approaches to the treatment of patients with uncomplicated peptic ulcer] Mansurov KhKh. **Klin Med (Mosk)** 1990 Jan;68(1):79–82 (Eng. Abstr.) (Rus)

[A method of increasing the effectiveness of anti-ulcer therapy] Mysh VG, et al. **Klin Med (Mosk)** 1989 Oct; 67(10):66–8 (Eng. Abstr.) (Rus)

[Health aspects of the use of low-calorie rations enriched with wild plants] Novoselov VG. **Kosm Biol Aviakosm Med** 1990 May-Jun;24(3):45–7 (Eng. Abstr.) (Rus)

[Lactobacillus in the digestive tract and food of long-lived persons in Abkhazia] Kvasnikov EI, et al. **Mikrobiol Zh** 1984 May-Jun;46(3):11–8 (Eng. Abstr.) (Rus)

[New classification of diets] Agadzhanov SA. **Sov Med** 1990; (2):47–50 (Rus)

[Improving the methodological approach to the treatment of peptic ulcer] Maĭorov VM, et al. **Sov Med** 1989;(10):82–5 (Rus)

[Comparative analysis of the lipid-protein spectrum of lipoproteins and fatty acid composition of lipids in plasma and erythrocytes of native populations of Chukotka and Moscow] Gerasimova EN, et al. **Vopr Med Khim** 1989 Sep-Oct;35(5):7–11 (Eng. Abstr.) (Rus)

[The effect of thymosin and dietary factors on the phospholipid composition and intensity of lipid peroxidation in the liver, spleen, bone marrow, and lymphocytes of thymectomized rats] Mamutov ZhI. **Vopr Med Khim** 1990 Mar-Apr;36(2):61–5 (Eng. Abstr.) (Rus)

[Study of the age dynamics of nutritional indicators and blood lipids in connection with the incidence of ischemic heart disease in the male population of Frunze] Aĭtbaev KA, et al. **Vopr Pitan** 1989 Jul-Aug;(4):24–8 (Eng. Abstr.) (Rus)

[The effect of malondialdehyde in the diet of pregnant and lactating female rats on the lipid peroxidation process and physical development of newborn rats] Bankova VV, et al. **Vopr Pitan** 1989 Jul-Aug;(4):57–61 (Eng. Abstr.) (Rus)

[Changes in the fatty acid composition of erythrocyte membranes in patients with chronic alcoholism under the effect of a diet enriched with linoleic acid] Buko VU, et al. **Vopr Pitan** 1989 Nov-Dec;(6):10–3 (Eng. Abstr.) (Rus)

[Correlation of the calculated content of vitamins C, B1, B2 in the diet of school children and students of trade schools and the actual content of them at various times of the year] Dudenko NV, et al. **Vopr Pitan** 1989 Nov-Dec;(6):55–8 (Eng. Abstr.) (Rus)

[Nutrition at an orphanage for preschool age children in the Sverdlovsk area] Eremin IuN, et al. **Vopr Pitan** 1989 Nov-Dec;(6):68–9 (Rus)

[Supply of vitamins C and B1 of students attending a rural professional-technical school in the middle Volga region] Fedorova GM. **Vopr Pitan** 1989 Sep-Oct;(5):43–6 (Eng. Abstr.) (Rus)

[The effect of qualitatively different nutrition on various indicators of the functional status of the parasympathetic nervous system and blood proteins in students during an examination period] Kerimova MG, et al. **Vopr Pitan** 1989 Nov-Dec;(6):17–20 (Eng. Abstr.) (Rus)

[Consumption of basic foods, state of health and physical work capacity of middle school students] Krasnopevtsev VM, et al. **Vopr Pitan** 1989 Sep-Oct;(5):40–3 (Eng. Abstr.) (Rus)

[The effect of alimentary factors on the status of nicotinamide nucleotides in acute phosphorus poisoning] Kulkybaev GA, et al. **Vopr Pitan** 1990 Mar-Apr;(2):59–62 (Eng. Abstr.) (Rus)

[Diet therapy of patients after organ-sparing surgery with vagotomy] Matveeva II. **Vopr Pitan** 1989 Sep-Oct;(5):74–5 (Rus)

[Experience in computer formation of food rations] Narimanov NM, et al. **Vopr Pitan** 1989 Sep-Oct;(5):69–72 (Rus)

[Metabolism of B group vitamins in rats, receiving rations with various amounts of protein and amino acids under conditions of chronic aniline poisoning] Perevalov AIa, et al. **Vopr Pitan** 1989 Jul-Aug;(4):53–7 (Eng. Abstr.) (Rus)

[Diet therapy of gout] Popova IuP. **Vopr Pitan** 1989 Jul-Aug; (4):72–3 (Rus)

[The effect of diet with an increased amount of tyrosine on reparative processes in the duodenum] Shchedrunov VV, et al. **Vopr Pitan** 1989 Nov-Dec;(6):52–5 (Eng. Abstr.) (Rus)

[Assessment of an analysis of the connections of nutrition with risk factors for ischemic heart disease in a one-time epidemiologic study] Solodkaia ES, et al. **Vopr Pitan** 1989 Jul-Aug;(4):20–4 (Eng. Abstr.) (Rus)

[Analysis of the etiologic significance of nutrition factors in the occurrence of peptic ulcer in railroad workers] Zhangabylov AK, et al. **Vopr Pitan** 1989 May-Jun;(3):22–5 (Eng. Abstr.) (Rus)

[Purine-low diets keep after a year the glomerular filtration, in moderated kidney insufficiency] Treviño-Becerra A, et al. **Gac Med Mex** 1989 Sep-Oct;125(9–10):271–9; discussion 281–2 (Spa)

[Obese women of high and low socioeconomic status diet composition and serum levels of lipoproteins] Albalá C, et al. **Rev Med Chil** 1989 Jan;117(1):3–9 (Eng. Abstr.) (Spa)

[Chronic renal insufficiency: hemodialysis and nutritional treatment based on a urea kinetic model] Vukusic A, et al. **Rev Med Chil** 1988 Nov;116(11):1153–61 (Eng. Abstr.) (Spa)

[Evolution of autotransfusion: effect of a diet with and

without the ingestion of iron] Bofill C, et al. **Sangre (Barc)** 1990 Jun;35(3):179–83 (Eng. Abstr.) **(Spa)**

[Diet and health. Food and health in focus between the ideal and everyday realities] Jansson S. **Lakartidningen** 1990 Jul 25;87(30–31):2432–5 **(Swe)**

[Unified dietary recommendations toward changing food habits] Vessby B. **Lakartidningen** 1989 Sep 6;86(36):2942–4 **(Swe)**

ADVERSE EFFECTS

Dietary effects of pristane on rat lymphoid tissues. Garrett LR, et al. **Agents Actions** 1989 Nov;28(3–4):272–8

Diet and atopic eczema in children. Ventura A, et al. **Allergy** 1989;44 Suppl 9:159–64

Nutritional anemia early in pregnancy in a population with a high incidence of siderosis. Turchetti LC, et al. **Am J Clin Nutr** 1966 Apr;18(4):249–55

Diet and the risk of pancreatic cancer in men. Farrow DC, et al. **Am J Epidemiol** 1990 Sep;132(3):423–31

Dietary factors and their relation to respiratory symptoms. The Second National Health and Nutrition Examination Survey. Schwartz J, et al. **Am J Epidemiol** 1990 Jul; 132(1):67–76

Dietary intake and colon cancer: sex- and anatomic site-specific associations. West DW, et al. **Am J Epidemiol** 1989 Nov;130(5):883–94

Diet and the risk of invasive cervical cancer among white women in the United States. Ziegler RG, et al. **Am J Epidemiol** 1990 Sep;132(3):432–45

Nutrition and lung cancer. Cattaruzza MS. **Ann Ig** 1989 May–Aug;1(3–4):803–12 (23 ref.)

Risk of carcinogenesis from exposure to dietary mutagens. Börzsönyi M. **Ann Ist Super Sanita** 1989;25(4):583–90 (57 ref.)

Effects of a restricted diet on the submaxillary gland of intact and castrated male rats. Goldraij A, et al. **Arch Int Physiol Biochim** 1989 Dec;97(6):531–5

A case-control study of the relationship between smoking, diet, and gallbladder disease. Pastides H, et al. **Arch Intern Med** 1990 Jul;150(7):1409–12

Assessment of occlusal tooth wear in vervet monkeys by reflex microscopy. van der Bijl P, et al. **Arch Oral Biol** 1989;34(9):723–9

Assessment of dietary risk factors in chronic headache. Guarnieri P, et al. **Biofeedback Self Regul** 1990 Mar; 15(1):15–25

Congenital malformations in offspring of diabetic rats: experimental study on the influence of the diet composition and magnesium intake. Giavini E, et al. **Biol Neonate** 1990; 57(3–4):207–17

Dietary factors and the risk of developing insulin dependent diabetes in childhood. Dahlquist GG, et al. **BMJ** 1990 May 19;300(6735):1302–6

Association between certain foods and risk of acute myocardial infarction in women. Gramenzi A, et al. **BMJ** 1990 Mar 24;300(6727):771–3

Nickel-sensitive patients with vesicular hand eczema: oral challenge with a diet naturally high in nickel. Nielsen GD, et al. **Br J Dermatol** 1990 Mar;122(3):299–308

Intussusception in the Syrian golden hamster. Cunnane SC, et al. **Br J Nutr** 1990 Mar;63(2):231–7

Experimental pancreatic cancer: role of species, sex and diet. Longnecker D. **Bull Cancer (Paris)** 1990;77(1):27–37

Diet and stomach cancer incidence. A case-control study in Turkey. Demirer T, et al. **Cancer** 1990 May 15; 65(10):2344–8

Dietary risk factors for primary hepatocellular carcinoma. Wogan GN. **Cancer Detect Prev** 1989;14(2):209–13

Aberrant crypts, putative precancerous lesions, in the study of the role of diet in the aetiology of colon cancer. Bird RP, et al. **Cancer Surv** 1989;8(1):189–200 (25 ref.)

Diet, alcohol and hypertension. Beilin LJ. **Clin Exp Hypertens [A]** 1989;11(5–6):991–1010 (77 ref.)

Preliminary report of cardiac study: cross-sectional multicenter study on dietary factors of cardiovascular diseases. CARDIAC Study Group. Yamori Y. **Clin Exp Hypertens [A]** 1989;11(5–6):957–72

Dietary components and progression of renal lesions. Kleinknecht C, et al. **Contrib Nephrol** 1989;75:26–34 (43 ref.)

Diet: its role in the genesis of peptic ulceration. Tovey FI, et al. **Dig Dis** 1989;7(6):309–23 (123 ref.)

Impact of diet and smoking on risk of developing intestinal metaplasia of the stomach. Stemmermann GN, et al. **Dig Dis Sci** 1990 Apr;35(4):433–8

Nutrition and cancer: a review. Oniang'o RK, et al. **East Afr Med J** 1990 Mar;67(3):154–61 (42 ref.)

Nutritional factors and cancers of the breast, endometrium and ovary. La Vecchia C. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1945–51 (61 ref.)

Differences in dietary intake associated with smoking status. Hebert JR, et al. **Eur J Clin Nutr** 1990 Mar;44(3):185–93

Effects of attritive diet on craniofacial morphology: a cephalometric analysis of a Finnish skull sample. Varrela J. **Eur J Orthod** 1990 May;12(2):219–23

Peptic ulcer in India [letter; comment] Tovey FI, et al. **Gut** 1990 Jan;31(1):123–4 Comment on: Gut 1989 Jul;30(7):930–4.

Diet and the risk of breast cancer. London S, et al. **Hematol Oncol Clin North Am** 1989 Dec;3(4):559–76 (72 ref.)

A population-based case-control study of colorectal cancer in Majorca. I. Dietary factors. Benito E, et al. **Int J Cancer** 1990 Jan 15;45(1):69–76

Similarities and differences between the epidemiology and possible dietary causes of coronary arterial disease and strokes. Seely S. **Int J Cardiol** 1989 Dec;25(3):333–8

The effect of maternal avoidance of eggs, cow's milk, and fish during lactation on the development of IgE, IgG, and IgA antibodies in infants. Hattevig G, et al. **J Allergy Clin Immunol** 1990 Jan;85(1 Pt 1):108–15

The role of dietary electrolytes in hypertension. Moore TJ. **J Am Coll Nutr** 1989;8 Suppl:68S–80S (111 ref.)

Dietary factors in the pathogenesis and management of gallstones. Tandon RK, et al. **J Assoc Physicians India** 1989 May;37(5):337–40 (50 ref.)

A large-scale prospective cohort study on diet and cancer in The Netherlands. van den Brandt PA, et al. **J Clin Epidemiol** 1990;43(3):285–95

Immunological malfunctions associated with low selenium–vitamin E diets in lambs. Turner RJ, et al. **J Comp Pathol** 1990 Jan;102(1):99–109

Summary report of the sixth symposium on cancer registries and epidemiology in the Pacific Basin. Henderson BE. **J Natl Cancer Inst** 1990 Jul 18;82(14):1186–90

Colonic hyperplasia and hyperproliferation induced by a nutritional stress diet with four components of Western-style diet. Newmark HL, et al. **J Natl Cancer Inst** 1990 Mar 21;82(6):491–6

Effect of zinc-deficient diet of varying duration on intestinal disaccharidase activity in the rat. Naveh Y, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):102–6

Dietary practices and pregnancy discomforts among urban blacks. Gulick EE, et al. **J Perinatol** 1989 Sep;9(3):271–80

Diet and large bowel cancer. Bingham SA. **J R Soc Med** 1990 Jul;83(7):420–2 (50 ref.)

Cancer of the oesophagus [letter; comment] McLaren DS. **Lancet** 1990 Jan 27;335(8683):238–9 Comment on: Lancet 1989 Nov 25;2(8674):1239–41.

Nasopharyngeal carcinoma, salted fish, and Polynesians [letter; comment] Morton RP, et al. **Lancet** 1989 Nov 18; 2(8673):1210–1 Comment on: Lancet 1989 Oct 7;2(8667):840–2.

Overpromotion of the dietary theory of coronary disorders [letter] Nixon PG, et al. **Lancet** 1989 Dec 2;2(8675):1334–5

Diet and behaviour [letter; comment] Mitchell L. **N Z Med J** 1989 Nov 8;102(879):593–4 Comment on: N Z Med J 1989 Sep 27;102(876):499–500.

Diet and behaviour [see comments] Williams S, et al. **N Z Med J** 1989 Sep 27;102(876):499–500 Comment in: N Z Med J 1989 Nov 8;102(879):593–4.

Superficial eosinophilic gastritis in laboratory beagle dogs attributable probably to diet. Narama I, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):581–9

Pork intake and human papillomavirus-related disease. Schneider A, et al. **Nutr Cancer** 1990;13(4):209–11

A comment on "Fish and meat in men's diet" by G. Williams [letter; comment] Yellowlees WW. **Nutr Health** 1990; 6(4):211–2 Comment on: Nutr Health 1988;6(2):99–104.

Exocrine pancreas in rabbits fed a copper-deficient diet: structural and functional studies. Alvarez C, et al. **Pancreas** 1989;4(5):543–9

Failure of a potent cholecystokinin antagonist to protect against diet-induced pancreatitis in mice. Ohshio G, et al. **Pancreas** 1989;4(6):739–43

The value of current nutrition information. Schapira DV, et al. **Prev Med** 1990 Jan;19(1):45–53

Retrospective studies of diet and cancer in Denmark. Jensen OM, et al. **Prog Clin Biol Res** 1990;346:67–82 (33 ref.)

Progress in diet and cancer research. Light L, et al. **Prog Clin Biol Res** 1989;320:89–99 (27 ref.)

Retrospective studies of diet and cancer at Roswell Park Memorial Institute. Mettlin C. **Prog Clin Biol Res** 1990; 346:55–65 (21 ref.)

Methodology and evaluation of dietary factors in Japan. Ohno Y. **Prog Clin Biol Res** 1990;346:11–20 (17 ref.)

Epidemiologic studies of fecal mutagenicity, cooked meat ingestion, and risk of colorectal cancer. Schiffman MH, et al. **Prog Clin Biol Res** 1990;340E:205–14

Diet and cancer: methodological complexities and case-control studies in Greece. Trichopoulos D, et al. **Prog Clin Biol Res** 1990;346:45–53 (16 ref.)

Epidemiologic studies of diet and cancer. Willett WC. **Prog Clin Biol Res** 1990;346:159–68 (28 ref.)

Diet and nasopharyngeal carcinoma. Yu MC. **Prog Clin Biol Res** 1990;346:93–105 (47 ref.)

Diet and cardiovascular disease. Committee on Medical Aspects of Food Policy. Report of the Panel on Diet in Relation to Cardiovascular Disease. **Rep Health Soc Subj (Lond)** 1984;28:1–32

Cardiomyopathy or cardiac beriberi in sugarcane fieldworkers [letter; comment] Lamont NM. **S Afr Med J** 1990 May 19;77(10):542 Comment on: S Afr Med J 1990 Feb 3;77(3):125–7.

The relationship between dietary factors and serum cholesterol values in the coloured population of the Cape Peninsula. Steyn K, et al. **S Afr Med J** 1990 Jul 21; 78(2):63–7

Occurrence of malocclusion in attritive environment: a study of a skull sample from southwest Finland. Varrela J. **Scand J Dent Res** 1990 Jun;98(3):242–7

Analysis of case-control data with covariate measurement error: application to diet and colon cancer. Armstrong BG, et al. **Stat Med** 1989 Sep;8(9):1151–63; discussion 1165–6

Diet and epithelial cancer of the thyroid gland. Franceschi S, et al. **Tumori** 1990 Aug 31;76(4):331–8 (52 ref.)

Diet and dermatology: rotten fish, red herrings and essential fatty acids. Burton JL. **West Engl Med J** 1990 Mar; 105(1):12–4 (53 ref.)

Hypertension: genetics and nutrition. Williams RR, et al. **World Rev Nutr Diet** 1990;63:116–30 (19 ref.)

[Nutrition and metabolic diseases with a mass incidence] Sobra J. **Cas Lek Cesk** 1990 Jul 20;129(29):897–901 (Eng. Abstr.) **(Cze)**

[Are there certain epidemiologic relations between diet and colorectal cancer] Faivre J. **Pathol Biol (Paris)** 1989 Nov; 37(9):983 **(Fre)**

[Polyunsaturated phosphatidylcholine combined with vitamin B complex in the treatment of patients with disorders of the hepatobiliary function caused by unbalanced nutrition] Cairella M, et al. **Clin Ter** 1989 Nov 30;131(4):237–46 (Eng. Abstr.) **(Ita)**

[The importance of anti-oxidants in human nutrition (published erratum appears in Med Clin (Barc) 1990 Feb 24;94(7):254)] Romero Alvira D, et al. **Med Clin (Barc)** 1990 Jan 20;94(2):69–75 (126 ref.) **(Spa)**

[Etiopathogenic study of digestive cancer in Viscaya, with special emphasis on the role of diet and alcohol and tobacco use] Goiriena de Gandarias FJ, et al. **Rev Sanid Hig Publica (Madr)** 1988 Jan–Apr; 62(1–4):1411–30 **(Spa)**

HISTORY

Through the centuries with food and drink, for better or worse. IV. Cohen SG, et al. **Allergy Proc** 1990 Jan–Feb; 11(1):39–48

Diet of the classical period of Greece and Rome. Waterlow JC. **Eur J Clin Nutr** 1989;43 Suppl 2:3–12

What did our ancestors eat? Garn SM, et al. **Nutr Rev** 1989 Nov;47(11):337–45

Early concepts on the role of nutrition, diet & longevity. Darby WJ. **Prog Clin Biol Res** 1990;326:1–20

PSYCHOLOGY

The relationship between beliefs about nutrition and dietary practices of the elderly. McIntosh WA, et al. **J Am Diet Assoc** 1990 May;90(5):671–6

STANDARDS

Recommended dietary amounts of nutrients for the United Kingdom [letter; comment] Shrimpton DH. **Br J Nutr** 1989 Sep;62(2):524–5 Comment on: Br J Nutr 1989 Mar;61(2):123–4.

Diet advice now easier to swallow [news] Smigel K. **J Natl Cancer Inst** 1990 Jul 4;82(13):1091–2

Recommended dietary allowances for Europe [letter] Hautvast JG, et al. **Lancet** 1989 Nov 18;2(8673):1220

STATISTICS & NUMERICAL DATA

Evaluation of alveolar bone in relation to nutritional status during pregnancy. Clark DE, et al. **J Dent Res** 1990 Mar; 69(3):890–5

The diets of British schoolchildren. Sub-committee on Nutritional Surveillance. Committee on Medical Aspects of Food Policy. **Rep Health Soc Subj (Lond)** 1989;36:1–293

TRENDS

Quantitative changes in dietary fat intake and serum cholesterol in women: results from a randomized, controlled trial. Boyd NF, et al. **Am J Clin Nutr** 1990 Sep; 52(3):470–6

Changing dietary patterns. Lands WE, et al. **Am J Clin Nutr** 1990 Jun;51(6):991–3 (24 ref.)

Trend changes in use and current intakes of tropical oils in the United States. Park YK, et al. **Am J Clin Nutr** 1990 May;51(5):738–48 (34 ref.)

Trends in individual consumption of dietary fat in the United States, 1920–1984. Stephen AM, et al. **Am J Clin Nutr** 1990 Sep;52(3):457–69 (187 ref.)

Mediterranean meal patterns. Alberti-Fidanza A. **Bibl Nutr Dieta** 1990;(45):59–71 (16 ref.)

Hungarian meal patterns. Biró G. **Bibl Nutr Dieta** 1990; (45):72–9

Finnish meal patterns. Prättälä R, et al. **Bibl Nutr Dieta** 1990; (45):80–91 (72 ref.)

The Mediterranean Diet: an attempt to define its present and past composition. Ferro-Luzzi A, et al. **Eur J Clin Nutr** 1989;43 Suppl 2:13–29 (49 ref.)

The impact of future foods on nutrition and health. Owen AL. **J Am Diet Assoc** 1990 Sep;90(9):1217–22

Dietary patterns and nutrient intake of U.S. infants. Proceedings of a symposium. October 13–15, 1989. **J Pediatr** 1990 Aug;117(2 Pt 2):S75–192

Trends in food consumption: implications for infant feeding. Hegsted DM. **J Pediatr** 1990 Aug;117(2 Pt 2):S80–3

Changes in food consumption patterns in Bahrain. Musaiger AO. **Nutr Health** 1990;6(4):183–8

Changing patterns of cancer and diet in Japan. Tominaga S, et al. **Prog Clin Biol Res** 1990;346:1–10

Time trends and international geographic variations related to diet and cancer. Zaridze DG. **Prog Clin Biol Res** 1990; 346:21–34 (15 ref.)

Overview of available data on diet and cancer mortality in France. Hill C. **Tumori** 1990 Aug 31;76(4):299–305

DIET, ATHEROGENIC

see related
CHOLESTEROL, DIETARY

Diet, atherosclerosis, and fish oil. Connor WE, et al. **Adv Intern Med** 1990;35:139–71 (100 ref.)
Genetic analysis of apolipoprotein A–I in two dietary environments. Blangero J, et al. **Am J Hum Genet** 1990 Sep;47(3):414–28
High K diets markedly reduce atherosclerotic cholesterol ester deposition in aortas of rats with hypercholesterolemia and hypertension. Tobian L, et al. **Am J Hypertens** 1990 Feb;3(2):133–5
Medical students' knowledge, attitudes, and behavior concerning diet and heart disease. Ammerman A, et al. **Am J Prev Med** 1989 Sep–Oct;5(5):271–8
Atherogenesis during low level hypercholesterolemia in the nonhuman primate. I. Fatty streak formation. Masuda J, et al. **Arteriosclerosis** 1990 Mar–Apr;10(2):164–77
Atherogenesis during low level hypercholesterolemia in the nonhuman primate. II. Fatty streak conversion to fibrous plaque. Masuda J, et al. **Arteriosclerosis** 1990 Mar–Apr; 10(2):178–87
Development of cholesterol metabolism: the effect of diet composition at weaning. Hahn P, et al. **Biol Neonate** 1990; 58(1):1–7
Increased macrophage procoagulant activity but normal endothelial thrombomodulin in rabbits fed an atherogenic diet. Semeraro N, et al. **Haemostasis** 1990;20(1):54–61
Studies on in vitro synthesis of serum lipoproteins in rats maintained on normal and atherogenic diets: effects of cobalt and manganese supplements at deficient and abundant doses. Basu Mallik AK. **Indian J Exp Biol** 1989 May;27(5):460–3
Diet, diabetes and atherosclerosis. Raheja BS. **J Assoc Physicians India** 1990 Feb;38(2):168–72 (43 ref.)
Atherogenic diet increases cholesteryl ester transfer protein messenger RNA levels in rabbit liver. Quinet EM, et al. **J Clin Invest** 1990 Feb;85(2):357–63
Scavenger effect of elastase on calcifications in liver, kidney and central nervous system tissues of rabbits with atherosclerosis induced by cholesterol–rich diet. Yasui M, et al. **J Int Med Res** 1989 Jul–Aug;17(4):350–7
Synthetic low and high fat diets for the study of atherosclerosis in the mouse. Nishina PM, et al. **J Lipid Res** 1990 May;31(5):859–69
Cholesterol metabolism in fibroblasts from rabbits resistant to diet–induced hypercholesterolemia. Soma MR, et al. **J Lipid Res** 1990 Jun;31(6):985–94
Effects on intestinal nutrient uptake and brush border membrane enzymes in response to atherogenic diet in rhesus monkeys. Dhaunsi GS, et al. **J Med Primatol** 1989; 18(6):467–75
Hypocholesterolemic activity of alpha–amylase hydrolysate of bagasse alkaline extract in rats fed atherogenic diet. Oku H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Oct; 35(5):481–94
Aneurysm formation in experimental atherosclerosis: relationship to plaque evolution [see comments] Zarins CK, et al. **J Vasc Surg** 1990 Sep;12(3):246–56 Comment in: J Vasc Surg 1990 Sep;12(3):371–2.
Further characterization of the impaired protective function in mice fed with lipid diet. Galdiero F, et al. **Med Microbiol Immunol (Berl)** 1989;178(6):297–308
Magnesium dietary intake modulates blood lipid levels and atherogenesis. Altura BT, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1840–4
[An attempt to substitute carbimazole for Alkiron in an atherogenic diet] Záhoř Z, et al. **Sb Lek** 1989 Sep; 91(8):238–41 (Eng. Abstr.) **(Cze)**
[Determination of apolipoproteins B in children: use in the screening of atherogenic risk and influence of diet] Thomé J, et al. **Pediatrie** 1990;45(4):275–9 (Eng. Abstr.) **(Fre)**
[Studies on stroke–prone spontaneously hypertensive rats (SHRSP) fed a high–fat and high–cholesterol diet—effects of salt intake on serum lipoprotein and apolipoprotein metabolism] Ogawa H, et al. **Nippon Eiseigaku Zasshi** 1989 Oct;44(4):911–20 (Eng. Abstr.) **(Jpn)**
[The inhibitory effect of elastase on calcium increase in brain and spinal cord of rabbits with atherosclerosis induced by cholesterol–rich diet] Yasui M, et al. **No To Shinkei** 1989 Aug;41(8):781–7 (Eng. Abstr.) **(Jpn)**
[The metabolic efficiency of baker's yeast in an atherogenic diet] Zhikhar LIu, et al. **Vopr Pitan** 1990 Mar–Apr; (2):69–74 (Eng. Abstr.) **(Rus)**

DIET, CARIOGENIC

Sugar consumption and caries experience in 12– and 13–year–old Icelandic children. Bjarnason S, et al. **Acta Odontol Scand** 1989 Oct;47(5):315–21
Snack foods and dental caries. Investigations using laboratory animals. Grenby TH. **Br Dent J** 1990 May 5;168(9):353–61
The effects of sucralose on coronal and root–surface caries. Bowen WH, et al. **J Dent Res** 1990 Aug;69(8):1485–7
The effect of sugar cane chewing on the development of dental caries. Frencken JE, et al. **J Dent Res** 1989 Jun; 68(6):1102–4
Measurement of dietary and dentifrice effects upon calculus accumulation rates in the domestic ferret. Harper DS, et al. **J Dent Res** 1990 Feb;69(2):447–50

DIET, CHEMICALLY DEFINED see FOOD, FORMULATED

DIET, ELEMENTAL see FOOD, FORMULATED

DIET FADS

Nutritional fads. Mogadam M. **Am J Gastroenterol** 1990 May; 85(5):510–5 (54 ref.)
Acceptance of novel foods in the market. Richardson DP. **Bibl Nutr Dieta** 1990;(45):143–56
Current controversies in nutrition. Kien CL. **Curr Probl Pediatr** 1990 Jul;20(7):349–408 (203 ref.)
Pseudonutrition and the Medicines Act [editorial] [see comments] **Lancet** 1990 Apr 28;335(8696):1007 Comment in: Lancet 1990 May 19;335(8699):1223–4.
Unconventional remedies used for patients with juvenile arthritis. Southwood TR, et al. **Pediatrics** 1990 Feb; 85(2):150–4
[Sense and nonsense of diets] Ballmer PE. **Schweiz Med Wochenschr** 1990 Mar 17;120(11):379–82 (23 ref.) (Eng. Abstr.) **(Ger)**
[Scientific approach in nutrition medicine and the example of diet fads] Sailer D. **Wien Med Wochenschr** 1990 May 15;140(9):223–6 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Honey and cider vinegar diets [letter] Canet M. **Br Dent J** 1989 Sep 9;167(5):158
Natural is not always healthy [editorial] Northup GW. **J Am Osteopath Assoc** 1990 Jun;90(6):505

HISTORY

Thought for food. Tracey MV. **Perspect Biol Med** 1989 Autumn;33(1):50–65

DIET, FORMULA see FOOD, FORMULATED

DIET, LOW–SALT see DIET, SODIUM–RESTRICTED

DIET, MACROBIOTIC

[Dietary intervention and follow–up study in 1–to–2–year–old children on macrobiotic diets] Dagnelie PC, et al. **Ned Tijdschr Geneeskd** 1990 Feb 17;134(7):341–5 (Eng. Abstr.) **(Dut)**

ADVERSE EFFECTS

High prevalence of rickets in infants on macrobiotic diets. Dagnelie PC, et al. **Am J Clin Nutr** 1990 Feb;51(2):202–8

DIET RECORDS

Hypertension prevention trial: do 24–h food records capture usual eating behavior in a dietary change study? Forster JL, et al. **Am J Clin Nutr** 1990 Feb;51(2):253–7
Accuracy of weighed dietary records [letter] Day NE, et al. **BMJ** 1990 May 26;300(6736):1398
Collection of food intake data: a reappraisal of criteria for judging the methods. Borrelli R. **Br J Nutr** 1990 May; 63(3):411–7
Comparison of a food frequency questionnaire with a diet record. Margetts BM, et al. **Int J Epidemiol** 1989 Dec; 18(4):868–73
Food–based validation of a dietary questionnaire: the effects of week–to–week variation in food consumption. Salvini S, et al. **Int J Epidemiol** 1989 Dec;18(4):858–67
Predicting attrition and adherence to a very low calorie diet: a prospective investigation of the eating inventory. LaPorte DJ, et al. **Int J Obes** 1990;14(3):197–206
Nutrition Evaluation Scale System reduces time and labor in recording quantitative dietary intake. Fong AK, et al. **J Am Diet Assoc** 1990 May;90(5):664–70
Diet history: questionnaire and interview techniques used in some retrospective studies of cancer. Jain M. **J Am Diet Assoc** 1989 Nov;89(11):1647–52
The apparent validity of diet questionnaires is influenced by number of diet–record days used for comparison. Potosky AL, et al. **J Am Diet Assoc** 1990 Jun;90(6):810–3
Determination of dietary vitamin B–6 intake: is it accurate? Reynolds RD. **J Am Diet Assoc** 1990 Jun;90(6):799–801 (18 ref.)
Dietary assessment in children using electronic methods: telephones and tape recorders. Van Horn LV, et al. **J Am Diet Assoc** 1990 Mar;90(3):412–6
[Assessment of the diet of malnourished outpatients with chronic obstructive respiratory insufficiency] Ahlburg P, et al. **Ugeskr Laeger** 1990 Mar 19;152(12):816–8 (Eng. Abstr.) **(Dan)**
[The diet of dialysis patients determined by 7–day food records] Marckmann P. **Ugeskr Laeger** 1990 Jan 29; 152(5):317–20 (Eng. Abstr.) **(Dan)**

DIET, REDUCING

Effect of diet and weight loss on whole blood filterability and plasma fibrinogen values in hypertensive obese postmenopausal women. Gelmini G, et al. **Acta Diabetol Lat** 1989 Oct–Dec;26(4):329–35
The synthesis and release of gonadotropins in response to gonadotropin–releasing hormone of the rat anterior pituitary gland during weight reduction. Kotsuji F, et al. **Acta Endocrinol (Copenh)** 1990 May;122(5):628–32
The joint influence of diet and increased physical activity in obese children. Peja M, et al. **Acta Paediatr Hung** 1988–89;29(3–4):373–81
Exercise therapy and hypocaloric diet in the treatment of obese children and adolescents. Reybrouck T, et al. **Acta Paediatr Scand** 1990 Jan;79(1):84–9
Dietary outcome in obese patients treated with a gastroplasty program. Andersen T, et al. **Am J Clin Nutr** 1989 Dec; 50(6):1328–40
Energy metabolism of overweight women 1 mo and 1 y after an 8–wk slimming period. de Groot LC, et al. **Am J Clin Nutr** 1990 Apr;51(4):578–83
Adaptation of energy metabolism of overweight women to alternating and continuous low energy intake. de Groot LC, et al. **Am J Clin Nutr** 1989 Dec;50(6):1314–23
Adaptive changes in energy expenditure during refeeding following low–calorie intake: evidence for a specific metabolic component favoring fat storage. Dulloo AG, et al. **Am J Clin Nutr** 1990 Sep;52(3):415–20
Controlled trial of the metabolic effects of a very–low–calorie diet: short– and long–term effects. Foster GD, et al. **Am J Clin Nutr** 1990 Feb;51(2):167–72
Calorie restriction and iopanoic acid effects on thyroid hormone metabolism. Katzeff HL, et al. **Am J Clin Nutr** 1990 Aug;52(2):263–6
Increased muscle dynamic endurance associated with weight reduction on a very–low–calorie diet. Krotkiewski M, et al. **Am J Clin Nutr** 1990 Mar;51(3):321–30
Reducing–diet and exercise–training effects on serum lipids and lipoproteins in mildly obese women. Nieman DC, et al. **Am J Clin Nutr** 1990 Oct;52(4):640–5
Albumin and labile–protein serum concentrations during very–low–calorie diets with different compositions. Scalfi L, et al. **Am J Clin Nutr** 1990 Mar;51(3):338–42
Anabolic effects of growth hormone in obese diet–restricted subjects are dose dependent. Snyder DK, et al. **Am J Clin Nutr** 1990 Sep;52(3):431–7
Effects of a very–low–calorie diet on metabolic control and cardiovascular risk factors in the treatment of obese non–insulin–dependent diabetics. Uusitupa MI, et al. **Am J Clin Nutr** 1990 May;51(5):768–73
Gastrointestinal and cardiac response to refeeding after low–calorie semistarvation. Young EA, et al. **Am J Clin Nutr** 1989 Nov;50(5):922–9
Effect of prolonged modified fasting in obese persons on in vitro markers of immunity: lymphocyte function and serum effects on normal neutrophils. McMurray RW, et al. **Am J Med Sci** 1990 Jun;299(6):379–85
Protein metabolic effects of a prolonged fast and hypocaloric refeeding. Hoffer LJ, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E832–40
The reduction of peripheral insulin concentrations in obese subjects following a hypocaloric diet: reduced pancreatic secretion or increased hepatic extraction? Gama R, et al. **Ann Clin Biochem** 1989 Sep;26 (Pt 5):388–92
Effects of a short–term (4 weeks) protein–sparing modified fast on plasma lipids and lipoproteins in obese women. Vermeulen A. **Ann Nutr Metab** 1990;34(3):133–42
Preabsorptive insulin release in bulimic women and chronic dieters. Broberg DJ, et al. **Appetite** 1989 Dec;13(3):161–9
The Hypertension Prevention Trial: three–year effects of dietary changes on blood pressure. Hypertension Prevention Trial Research Group. **Arch Intern Med** 1990 Jan;150(1):153–62
Prediction of glucose response to weight loss in patients with non–insulin–dependent diabetes mellitus. Watts NB, et al. **Arch Intern Med** 1990 Apr;150(4):803–6
Changes in the expression of superoxide dismutase and catalase as a function of age and dietary restriction. Semsei I, et al. **Biochem Biophys Res Commun** 1989 Oct 31; 164(2):620–5
Magnesium and methionine deprivation affect the response of rats to boron deprivation. Nielsen FH, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:91–107
Antihypertensive effect of diet compared with drug treatment in obese men with mild hypertension. Berglund A, et al. **BMJ** 1989 Aug 19;299(6697):480–5
The effect of synthetic very low calorie diets on the GH–IGF–1 axis in obese subjects. Gama R, et al. **Clin Chim Acta** 1990 Apr 13;188(1):31–8
Diet–induced changes in sex hormone binding globulin and free testosterone in women with normal or polycystic ovaries: correlation with serum insulin and insulin–like growth factor–I. Kiddy DS, et al. **Clin Endocrinol (Oxf)** 1989 Dec;31(6):757–63
Weight reduction and sodium restriction in the management of hypertension. Kumanyika SK. **Clin Geriatr Med** 1989 Nov;5(4):769–89 (97 ref.)
Different levels of food restriction have opposite effects on adipocyte cellularity and lipoprotein–lipase activity in obese rats. Lemonnier D, et al. **Diabete Metab** 1989 Nov–Dec;15(6):394–402
Strength gains in obese females are unaffected by moderate dietary restriction. Ballor DL, et al. **Eur J Appl Physiol** 1989;59(5):351–4
Plasma concentrations of free amino acids during 3 weeks treatment of massively obese children with a very low calorie diet. Widhalm K, et al. **Eur J Pediatr** 1989 Oct; 149(1):43–7
No reduction of high density lipoprotein2 during weight

reduction in obese children and adolescents. Zwiauer K, et al. **Eur J Pediatr** 1989 Dec;149(3):192–3

2nd European Congress of Obesity. Satellite conference. Very low calorie diets. (Cambridge, 28–30 March 1989). Proceedings. **Int J Obes** 1989;13 Suppl 2:1–199

The effect of very low calorie diet on liver morphology. Andersen T, et al. **Int J Obes** 1989;13 Suppl 2:153–4

Dietary fibre added to very low calorie diet reduces hunger and alleviates constipation. Astrup A, et al. **Int J Obes** 1990;14(2):105–12

VLCD compliance and lean body mass. Astrup A, et al. **Int J Obes** 1989;13 Suppl 2:27–31

The myth of the yo–yo: consistent rate of weight loss with successive dieting by VLCD. Beeson V, et al. **Int J Obes** 1989;13 Suppl 2:135–9

Short and long term results of a progressive reintroduction of carbohydrates (PRCH) after a protein–sparing modified fast (PSMF). Bettens C, et al. **Int J Obes** 1989;13 Suppl 2:113–7

A model for group therapy in major obesity using VLCD. Cox J, et al. **Int J Obes** 1989;13 Suppl 2:197–9

Rapid weight loss and lean tissue: evidence for comparable body composition and metabolic rate in differing rates of weight loss. Coxon A, et al. **Int J Obes** 1989;13 Suppl 2:179–81

Short term effect of a very low calorie diet on body composition and fat distribution. Dalle Grave R, et al. **Int J Obes** 1989;13 Suppl 2:177–8

Very low calorie diet induces opposite effects on sympathetic nervous system and adrenomedullary responses. Del Rio G, et al. **Int J Obes** 1989;13 Suppl 2:173–5

Changes in blood rheology of grossly obese individuals during a very low calorie diet. Ernst E, et al. **Int J Obes** 1989;13 Suppl 2:167–8

Prolonged use of a very low calorie diet (Cambridge diet) in massively obese patients attending an obesity clinic: safety, efficacy and additional benefit from dexfenfluramine. Finer N, et al. **Int J Obes** 1989;13 Suppl 2:91–3

The effect of weight loss by dieting or exercise on resting metabolic rate in overweight men. Frey–Hewitt B, et al. **Int J Obes** 1990;14(4):327–34

Very low calorie diets should not be used. Garrow JS. **Int J Obes** 1989;13 Suppl 2:145–7; discussion 149 (4 ref.)

Very low energy formula diet in the treatment of obesity. Hainer V, et al. **Int J Obes** 1989;13 Suppl 2:185–8

Very low calorie diet therapy in obese non–insulin dependent diabetes patients. Hanefeld M, et al. **Int J Obes** 1989;13 Suppl 2:33–7

Effects of very low calorie diet (VLCD) on body weight, blood glucose and serum lipid metabolism in severe obesity with glucose intolerance. Inoue S, et al. **Int J Obes** 1989; 13 Suppl 2:183–4

Weight loss outcome and health benefits associated with the Optifast program in the treatment of obesity. Kanders BS, et al. **Int J Obes** 1989;13 Suppl 2:131–4

Restoration to normal body composition by VLCD: a comparison of post obese and lean subjects questions BMI 25 as diet limit. Kreitzman S, et al. **Int J Obes** 1989;13 Suppl 2:161–2

Lean body mass, exercise and VLCD. Kreitzman SN. **Int J Obes** 1989;13 Suppl 2:17–25 (26 ref.)

Selection of appropriate exercise regimens for weight reduction during VLCD and maintenance. Lemons AD, et al. **Int J Obes** 1989;13 Suppl 2:119–23

Long–term effects on lipid metabolism of weight reduction on lactovegetarian and mixed diet. Marniemi J, et al. **Int J Obes** 1990;14(2):113–25

The long term effectiveness of combined therapy by behavior modification and very low calorie diet: 2 years follow–up. Miura J, et al. **Int J Obes** 1989;13 Suppl 2:73–7

The efficacy and metabolic effects of two different regimens of very low calorie diet. Ohno M, et al. **Int J Obes** 1989; 13 Suppl 2:79–85

Weight control using the Lean Plan diet: short and long term effects. Pollet PE, et al. **Int J Obes** 1989;13 Suppl 2:193–5

Initial very low calorie diet (VLCD) improves ultimate weight loss. Quaade F, et al. **Int J Obes** 1989;13 Suppl 2:107–11

Cardiovascular changes in obese subjects on very low calorie diet. Ramhamadany E, et al. **Int J Obes** 1989;13 Suppl 2:95–9

Maintenance of weight loss with recovery of resting metabolic rate following 8 weeks of very low calorie dieting. Rattan S, et al. **Int J Obes** 1989;13 Suppl 2:189–92

Effects of exercise during VLCD diet on metabolic rate, body composition and aerobic power: pooled data of four studies. Saris WH, et al. **Int J Obes** 1989;13 Suppl 2:169–70

The effect of diet or exercise on plasma norepinephrine kinetics in moderately obese young men. Schwartz RS, et al. **Int J Obes** 1990 Jan;14(1):1–11 (40 ref.)

Three year hospital experience with control of major obesity by VLCD in medically compromised individuals. Shapiro H, et al. **Int J Obes** 1989;13 Suppl 2:125–9

Effects of low (LCD) and very low (VLCD) energy diets on metabolic rate and body composition in obese (fa/fa) Zucker rats. Stock MJ. **Int J Obes** 1989;13 Suppl 2:61–5

Cardiac stroke work output during a short term very low calorie diet, noradrenaline–induced thermogenesis and T3 supplementation. Stokholm KH, et al. **Int J Obes** 1989;13 Suppl 2:151

Very low calorie diets should be used. Stordy BJ. **Int J Obes** 1989;13 Suppl 2:141–3; discussion 149 (11 ref.)

Long term effects of a very low calorie diet on metabolic control and cardiovascular risk factors in the treatment of obese non–insulin–dependent diabetics. Uusitupa M, et al. **Int J Obes** 1989;13 Suppl 2:163–4

Weight maintenance and resting metabolic rate 18–40 months after a diet/exercise treatment. van Dale D, et al. **Int J Obes** 1990;14(4):347–59

Effect of a long term very low calorie diet on glucose/insulin metabolism in obesity. Influence of fat distribution on hepatic insulin extraction. Van Gaal L, et al. **Int J Obes** 1989;13 Suppl 2:47–9

Short and long term effects of a very low calorie diet on resting metabolic rate and body composition. Vansant G, et al. **Int J Obes** 1989;13 Suppl 2:87–9

Very low calorie diets—clinical trial. Voliovitch H, et al. **Int J Obes** 1989;13 Suppl 2:157

Treatment of obesity by very low calorie diet, behavior therapy, and their combination: a five–year perspective. Wadden TA, et al. **Int J Obes** 1989;13 Suppl 2:39–46

Formulation change in VLCD in response to DHSS recommendations: comparative evaluation. Walls J, et al. **Int J Obes** 1989;13 Suppl 2:67–72

Effects of VLCD in obese NIDDM (non–insulin dependent diabetes) on glucose, insulin and C–peptide dynamics. Weck M, et al. **Int J Obes** 1989;13 Suppl 2:159–60

The effect of very low energy diets on the fatty acid composition of serum lipids. Wilson JH, et al. **Int J Obes** 1989;13 Suppl 2:51–60

A low–cost competitive approach to weight reduction in a Native American community. Wilson R, et al. **Int J Obes** 1989;13(6):731–8

Variables associated with weight loss and improvements in glycemic control in type II diabetic patients in behavioral weight control programs. Wing RR, et al. **Int J Obes** 1990; 14(6):495–503

Abdominal fat, insulin and C–peptide modifications induced by severe caloric restriction. Zamboni M, et al. **Int J Obes** 1989;13 Suppl 2:165–6

24 hours electrocardiographic monitoring in obese children and adolescents during a 3 weeks low calorie diet (500 kcal). Zwiauer K, et al. **Int J Obes** 1989;13 Suppl 2:101–5

Augmentation of superoxide generation in phagocytosing murine peritoneal macrophages by dietary restriction. Hishinuma K, et al. **Int J Vitam Nutr Res** 1990;60(1):95–9

Dietary restriction augments superoxide generation in mouse peritoneal macrophages: an investigation using a chemiluminescence probe specific for superoxide anion. Hishinuma K, et al. **Int J Vitam Nutr Res** 1989;59(3):314–8

Dietary restriction induces microcytic change and shortened life span of erythrocytes without anemia in mice. Hishinuma K, et al. **Int J Vitam Nutr Res** 1989;59(4):406–12

Changes in vitamin status in plasma during dieting and exercise. van Dale D, et al. **Int J Vitam Nutr Res** 1990; 60(1):67–74

Plasma and urinary carnitine of obese subjects on very–low–calorie diets. Davis AT, et al. **J Am Coll Nutr** 1990 Jun;9(3):261–4

The effects of variations in carbohydrate, protein, and fat content of the diet upon weight loss, blood values, and nutrient intake of adult obese women. Alford BB, et al. **J Am Diet Assoc** 1990 Apr;90(4):534–40

Hypertension Prevention Trial (HPT): food pattern changes resulting from intervention on sodium, potassium, and energy intake. Hypertension Prevention Trial Research Group. Shah M, et al. **J Am Diet Assoc** 1990 Jan; 90(1):69–76

Short term changes of auxological variables in childhood obesity after a hypocaloric dietary treatment. De Felice C, et al. **J Endocrinol Invest** 1989;12(8 Suppl 3):131–2

Influence of menopause on dietary treatment of obesity. Andersson B, et al. **J Intern Med** 1990 Mar;227(3):173–81

A comparison of weight and diet concerns and personality factors among female athletes and non–athletes. Davis C, et al. **J Psychosom Res** 1989;33(5):527–36

Very–low–calorie diets [letter; comment] **JAMA** 1990 Jun 6;263(21):2885–7 Comment on: JAMA 1990 Jan 5;263(1):83–5.

Long–term effects of dieting on resting metabolic rate in obese outpatients. Wadden TA, et al. **JAMA** 1990 Aug 8;264(6):707–11

Responsible and irresponsible use of very–low–calorie diets in the treatment of obesity [see comments] Wadden TA, et al. **JAMA** 1990 Jan 5;263(1):83–5 (36 ref.) Comment in: JAMA 1990 Jun 6;263(21):2885–7.

Effect of dietary restriction and repeated growth hormone–releasing factor injections on growth hormone response to growth hormone–releasing factor in obese subjects. Csizmadi I, et al. **Metabolism** 1989 Oct; 38(10):1016–21

Measurement of composition changes using dual–photon absorptiometry in obese patients undergoing semistarvation. Koyama H, et al. **Metabolism** 1990 Mar; 39(3):302–6

Regional changes in adrenergic receptor status during hypocaloric intake do not predict changes in adipocyte size or body shape. Presta E, et al. **Metabolism** 1990 Mar; 39(3):307–15

Very–low–calorie diet–induced weight reduction reverses impaired growth hormone secretion response to growth hormone–releasing hormone, arginine, and L–dopa in obesity. Tanaka K, et al. **Metabolism** 1990 Sep;39(9):892–6

Weight reduction with a high protein, low carbohydrate, calorie–restricted diet: effects on blood pressure, glucose and insulin levels. Nobels F, et al. **Neth J Med** 1989 Dec; 35(5–6):295–302

Weight and dieting concerns in adolescents, fashion or symptom? Casper RC, et al. **Pediatrics** 1990 Sep; 86(3):384–90

Prevention of spontaneous and radiation–induced tumors in rats by reduction of food intake. Gross L, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6795–7

Modulation of gene expression in autoimmune disease and aging by food restriction and dietary lipids. Fernandes G, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):16–22 (66 ref.)

Influence of caloric restriction and exercise on tumorigenesis in rats. Kritchevsky D. **Proc Soc Exp Biol Med** 1990 Jan; 193(1):35–8

Undernutrition without malnutrition restricts the numbers and proportions of Ly–1 B lymphocytes in autoimmune (MRL/l and BXSB) mice. Ogura M, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):6–12

Mechanism of food restriction: protection of cellular homeostasis. Yu BP, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):13–5

The effects of very low fat diets enriched with fish or kangaroo meat on cold–induced vasoconstriction and platelet function. Butcher LA, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Mar; 39(3):221–6

Effect of dietary restriction on triglyceride levels in the uterus isolated from pregnant rats. Influences of prostaglandins and indomethacin. Sterin AB, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Nov; 38(2):129–35

The use of very low calorie diets in obesity. Report of the Working Group on Very Low Calorie Diets. Committee on Medical Aspects of Food Policy. **Rep Health Soc Subj (Lond)** 1987;31:1–43

Weight loss in obese women—exercise v. dietary education. Bertram SR, et al. **S Afr Med J** 1990 Jul 7;78(1):15–8

[A low–energy protein diet—its effect on lipid and protein metabolism] Kunešová M, et al. **Vnitr Lek** 1990 May; 36(5):417–25 (Eng. Abstr.) **(Cze)**

[Dietary fiber added to a very–low caloric diet reduces hunger and alleviates constipation] Quaade F, et al. **Ugeskr Laeger** 1990 Jan 8;152(2):95–8 (Eng. Abstr.) **(Dan)**

[Results of weight–loss treatment at a hospital. Significance of the administration of triiodothyronine in small doses during a protein diet] Daubresse JC, et al. **Acta Clin Belg** 1989;44(4):221–7 (Eng. Abstr.) **(Fre)**

[The significance of carbohydrates in reducing diets] Zwiauer K. **Infusionstherapie** 1989 Aug;16(4):176–81 (26 ref.) (Eng. Abstr.) **(Ger)**

[Changes in biliary lithogenicity caused by 4 weeks' weight reduction] Janowitz P, et al. **Leber Magen Darm** 1989 Jul; 19(4):190–5 (Eng. Abstr.) **(Ger)**

[Prevention and therapy of obesity with diet and sports, an ambulatory therapy program for overweight children] Korsten–Reck U, et al. **Wien Med Wochenschr** 1990 May 15;140(9):232–40 (69 ref.) (Eng. Abstr.) **(Ger)**

[Waist–hip and waist–thigh index in obesity especially in relation to weight reduction] Beykirch H, et al. **Z Gesamte Inn Med** 1989 Nov 1;44(21):644–6 (Eng. Abstr.) **(Ger)**

[Experiences with a diet–training program in patients with obesity associated diseases including follow–up] Häntzschel U, et al. **Z Gesamte Inn Med** 1989 Sep 1;44(17):509–12 (Eng. Abstr.) **(Ger)**

[Questions by adolescents about dieting] Bloch A. **Harefuah** 1989 Dec 15;117(12):457–9 (Eng. Abstr.) **(Heb)**

[Free serum lipid levels and hypolipid/hypocaloric diets in obese subjects] Pollari G, et al. **Riv Eur Sci Med Farmacol** 1988 Feb;10(1):25–6 (Eng. Abstr.) **(Ita)**

[Non–drug therapy of hypertension] Kawasaki T. **Fukuoka Igaku Zasshi** 1989 Oct;80(10):451–5 **(Jpn)**

[Treatment of hypertension complicated by diabetes mellitus and obesity] Kajiwara N. **Nippon Naika Gakkai Zasshi** 1990 Jan 10;79(1):54–9 **(Jpn)**

[Role of insulin in blood pressure lowering mechanism during low calory regimen in obese essential hypertensives] Takahashi H, et al. **Nippon Naika Gakkai Zasshi** 1989 Aug; 78(8):1162–7 **(Jpn)**

[Non–pharmacological treatment of hypertension] Nomura G. **Nippon Rinsho** 1989 Sep;47(9):2074–8 **(Jpn)**

[Lies about Nutrilett (letter)] Robertson P. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3251 **(Nor)**

[Lipid metabolism in obese school–age children. II. The changes occurring after the treatment with low–calorie diet] Malecka–Tendera E, et al. **Pediatr Pol** 1989 Aug–Sep; 64(8–9):535–41 (Eng. Abstr.) **(Pol)**

[Effectiveness of diet therapy of obesity in women in the climacteric period] Kowalczyk–Gawrysiak L, et al. **Wiad Lek** 1989 Jan 15;42(2):79–82 (Eng. Abstr.) **(Pol)**

[Physical rehabilitation in diabetes mellitus] Balabolkin MI, et al. **Sov Med** 1989;(9):84–6 **(Rus)**

[Obesity and the reduced diet] Dirgela PS. **Vopr Pitan** 1990 Mar–Apr;(2):79–80 **(Rus)**

[The effect of a hypocaloric diet enriched with polyunsaturated fatty acids on various indicators of cellular

immunity in obese children] Kravets EB, et al. **Vopr Pitan** 1989 Nov-Dec;(6):13-6 (Eng. Abstr.) **(Rus)**

[The use of a soy protein isolate in the diet therapy of patients with alimentary obesity] Sharmanov TSh, et al. **Vopr Pitan** 1990 Mar-Apr;(2):27-9 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Effects of cardiac stress during a very-low-calorie diet and exercise program in obese women. Moyer CL, et al. **Am J Clin Nutr** 1989 Dec;50(6):1324-7

Neither high- nor low-intensity exercise promotes whole-body conservation of protein during severe dietary restrictions. Ballor DL, et al. **Int J Obes** 1990;14(3):279-87

ADA testifies on very-low-calorie diets before the Subcommittee on Regulation, Business Opportunities, and Energy. **J Am Diet Assoc** 1990 May;90(5):648, 650

Position of the American Dietetic Association: very-low-calorie weight loss diets. **J Am Diet Assoc** 1990 May;90(5):722-6 (51 ref.)

Gallstone formation associated with weight reduction. Dickerman JL. **J Am Osteopath Assoc** 1990 May; 90(5):456-8

Stones and kilograms [letter; comment] **Lancet** 1989 Dec 2; 2(8675):1343 Comment on: Lancet 1989 Oct 7;2(8667):844.

Osteoporosis: a "new morbidity" for dieting female adolescents? Kreipe RE, et al. **Pediatrics** 1990 Sep; 86(3):478-80

Very-low-calorie diets. Safe treatment for moderate and morbid obesity. Prasad N. **Postgrad Med** 1990 Sep 1; 88(3):179-82, 187-8, 190 (26 ref.)

Impairment of theophylline clearance by a hypocaloric low-protein diet in chronic obstructive pulmonary disease. Juan D, et al. **Ther Drug Monit** 1990 Jan;12(1):111-4

[Histologic and ultrastructural changes in the liver in ageing rats and the effects due to food restriction and noise] Xi YP. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Jun; 18(2):118-20 (Eng. Abstr.) **(Chi)**

[Xerophthalmia caused by self-induced deficiency disease] Rouland JF, et al. **J Fr Ophtalmol** 1989;12(4):273-7 (Eng. Abstr.) **(Fre)**

[Peroneal weakness (clinical conference)] Mengden T, et al. **Schweiz Rundsch Med Prax** 1990 Aug 2;79(31-32):927-8 (Eng. Abstr.) **(Ger)**

HISTORY

The historical development of very low calorie diets. Howard AN. **Int J Obes** 1989;13 Suppl 2:1-9

METHODS

[Treatment of obesity with a very low-energy dietetic regimen--the endocrine parallels] Tsanev A, et al. **Vutr Boles** 1990;29(1):82-5 (Eng. Abstr.) **(Bul)**

PSYCHOLOGY

Heterogeneity of clinical presentation among obese individuals seeking treatment. Fitzgibbon ML, et al. **Addict Behav** 1990;15(3):291-5

Dietary restraint and eating behavior in the natural environment. Johnson WG, et al. **Addict Behav** 1990; 15(3):285-90

A psychometric study of restraint: the impact of race, gender, weight and marital status. Klem ML, et al. **Addict Behav** 1990;15(2):147-52

Behavioral weight-loss for multiply-handicapped adults: assessing caretaker involvement and measures of behavior change. McCarran MS, et al. **Addict Behav** 1990; 15(1):13-20

Choosing a beverage: comparison of preferences and beliefs related to the reported consumption of regular vs. diet sodas. Tuorila H, et al. **Appetite** 1990 Feb;14(1):1-8

The maintenance of weight loss after behavioral treatment. A review. Westover SA, et al. **Behav Modif** 1990 Apr; 14(2):123-37 (37 ref.)

Plasma concentrations of tryptophan and dieting. Goodwin GM, et al. **BMJ** 1990 Jun 9;300(6738):1499-500

A comment on the role of dietary restraint in the development of bulimia nervosa. Charnock DJ. **Br J Clin Psychol** 1989 Nov;28 (Pt 4):329-40 (55 ref.)

Dietary restraint and binge eating: response to Charnock. Polivy J, et al. **Br J Clin Psychol** 1989 Nov;28 (Pt 4):341-3; discussion 343-6 (55 ref.)

A meta-analytic evaluation of couples weight-loss programs. Black DR, et al. **Health Psychol** 1990;9(3):330-47

Attributions for dietary failures: problems reported by participants in the Hypertension Prevention Trial. Jeffery RW, et al. **Health Psychol** 1990;9(3):315-29

Predicting attrition and adherence to a very low calorie diet: a prospective investigation of the eating inventory. LaPorte DJ, et al. **Int J Obes** 1990;14(3):197-206

Effects of a very low calorie diet on weight, thyroid hormones and mood. Wadden TA, et al. **Int J Obes** 1990; 14(3):249-58

A new measure of weight locus of control: the Dieting Beliefs Scale. Stotland S, et al. **J Pers Assess** 1990 Spring; 54(1-2):191-203

Obesity as a self-handicapping strategy: personality, selective attribution of problems, and weight loss. Baumeister RF, et al. **J Soc Psychol** 1990 Feb;130(1):121-3

The diet dilemma. Kirk K. **Ohio Med** 1990 Mar;86(3):198-9, 201, 204-7

Endocrine findings in restrained eaters. Pirke KM, et al. **Physiol Behav** 1990 May;47(5):903-6

[Physical and social comparisons at admission to therapy: a contribution to the differential diagnosis in obesity] Haisch J. **Z Klin Psychol Psychopathol Psychother** 1990; 38(1):4-14 (Eng. Abstr.) **(Ger)**

TRENDS

VLCD: future perspectives. Munro JF, et al. **Int J Obes** 1989; 13 Suppl 2:11-5

DIET, SODIUM-RESTRICTED

Monosaccharide transport by the jejunum of chickens adapted to a low-Na+ diet. Caelles N, et al. **Acta Vet Scand Suppl** 1989;86:219-21

Mechanism of taurine natriuresis in rats. Kohashi N, et al. **Adv Exp Med Biol** 1989;247A:635-40

Activation of inactive kallikrein in the rat kidney during low sodium intake. Takaoka M, et al. **Adv Exp Med Biol** 1989; 247B:431-6

Kinin receptors in smooth muscle and vascular effects in sodium depleted rats. Yasujima M, et al. **Adv Exp Med Biol** 1989;247B:411-7

Comparison of long-term hemodynamic effects at rest and during exercise of lisinopril plus sodium restriction versus hydrochlorothiazide in essential hypertension. Omvik P, et al. **Am J Cardiol** 1990 Feb 1;65(5):331-8

Moderate sodium restriction. Do the benefits justify the hazards? [see comments] Alderman MH, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 1):499-504 (57 ref.) Comment in: Am J Hypertens 1990 Jun;3(6 Pt 1):518-9.

Moderate sodium restriction [comment] Kaplan NM. **Am J Hypertens** 1990 Jun;3(6 Pt 1):518-9 (13 ref.) Comment on: Am J Hypertens 1990 Jun;3(6 Pt 1):499-504.

Effects of salt restriction on blood volume, hemodynamics and humoral factors in hypertensive patients with chronic glomerulonephritis. Kumagai H, et al. **Am J Hypertens** 1989 Sep;2(9):669-74

24-hour blood pressure recordings in Dahl rats on high- and low-salt diets. Brown DR, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):R1225-31

Role of atrial natriuretic factor in renal adaptation to variation of salt intake in humans. Dal Canton A, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):F1579-83

Whole-cell currents in rat cortical collecting tubule: low-Na diet increases amiloride-sensitive conductance. Frindt G, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):F562-7

Na restriction blunts expansion of plasma volume and ameliorates hyperdynamic circulation in portal hypertension. Genecin P, et al. **Am J Physiol** 1990 Sep; 259(3 Pt 1):G498-503

Downregulation of beta-adrenergic receptor-mediated function during sodium restriction in humans. Rosen SG, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E499-504

Atrial natriuretic hormone and aldosterone regulation in salt-depleted state. Shenker Y. **Am J Physiol** 1989 Oct; 257(4 Pt 1):E583-7

Age-related differences in norepinephrine kinetics: effect of posture and sodium-restricted diet. Supiano MA, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E422-31

Glomerular hemodynamic alterations during renal nerve stimulation in rats on high- and low-salt diets. Tucker BJ, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F133-43

Angiotensin augments epinephrine release in pithed rats fed a low-sodium diet. Vollmer RR, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R187-92

The Hypertension Prevention Trial: three-year effects of dietary changes on blood pressure. Hypertension Prevention Trial Research Group. **Arch Intern Med** 1990 Jan;150(1):153-62

Sodium regulation of alpha 2-adrenoreceptors in Dahl rats. Effect of feeding a low or high salt diet. Periyasamy SM, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3851-8

The effects of ibuprofen and indomethacin on renal function in the presence and absence of frusemide in healthy volunteers on a restricted sodium diet. Passmore AP, et al. **Br J Clin Pharmacol** 1990 Mar;29(3):311-9

Dietary sodium restriction and blood pressure response to sympathetic blockade in young versus adolescent spontaneously hypertensive rats. Leenen FH, et al. **Can J Physiol Pharmacol** 1990 Jan;68(1):46-50

Low sodium content formula for infants with congestive heart failure. Hwang BT, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Feb;45(2):100-2

Effects of replacing sodium intake in subjects on a low sodium diet: a crossover study. Australian National Health & Medical Research Council Dietary Salt Study Management Committee. **Clin Exp Hypertens [A]** 1989; 11(5-6):1011-24

Beta-adrenergic receptor sensitivity during sodium restriction and converting enzyme inhibition. Mills P, et al. **Clin Exp Hypertens [A]** 1990;12(2):179-90

Effect of mineralocorticoids and salt loading on renin release, renal renin content and renal renin mRNA in mice. Barrett G, et al. **Clin Exp Pharmacol Physiol** 1989 Aug;16(8):631-9

Effects of sodium restriction on cardiac 3,4-dihydroxyphenylethylene glycol and catecholamine levels in rats. Howes LG, et al. **Clin Exp Pharmacol Physiol** 1989 Aug;16(8):671-4

Biochemical correction in the syndrome of hypertension and hyperkalaemia by severe dietary salt restriction suggests renin-aldosterone suppression critical in pathophysiology. Klemm SA, et al. **Clin Exp Pharmacol Physiol** 1990 Mar; 17(3):191-5

A factorial study of fat and fibre changes and sodium restriction on blood pressure of human hypertensive subjects. Sciarrone SE, et al. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):197-201

Weight reduction and sodium restriction in the management of hypertension. Kumanyika SK. **Clin Geriatr Med** 1989 Nov;5(4):769-89 (97 ref.)

Low sodium intake corrects abnormality in beta-receptor-mediated arterial vasodilation in patients with hypertension: correlation with beta-receptor function in vitro. Naslund T, et al. **Clin Pharmacol Ther** 1990 Jul; 48(1):87-95

Time-course and relationship of the early changes in renal sodium excretion and aldosterone secretion during dietary sodium restriction in normal man. Carmichael DJ, et al. **Clin Sci** 1990 Jun;78(6):605-12

Cardiac secretion and renal clearance of atrial natriuretic peptide in normal man: effect of salt restriction. Sudhir K, et al. **Clin Sci** 1989 Dec;77(6):605-10

Treatment in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Jeffery RW, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):65S-83S

Design, methods, and rationale in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Meinert CL, et al. **Controlled Clin Trials** 1989 Sep; 10(3 Suppl):1S-29S

Is salt restriction relevant and feasible as adjunctive treatment of hypertension? Weinberger MH. **Drugs** 1990 Jun; 39(6):809-13 (31 ref.)

The effect of a combination low sodium, low fat, high fibre diet on serum lipids in treated hypertensive patients. Little P, et al. **Eur J Clin Nutr** 1990 Apr;44(4):293-300

Evidence for increased renal norepinephrine overflow during sodium restriction in humans. Friberg P, et al. **Hypertension** 1990 Aug;16(2):121-30

Time course of enhanced adrenal responsiveness to angiotensin on a low salt diet. Rogacz S, et al. **Hypertension** 1990 Apr;15(4):376-80

Prevention and reversal of cataracts in genetically hypertensive rats through sodium restriction. Rodríguez-Sargent C, et al. **Invest Ophthalmol Vis Sci** 1989 Nov;30(11):2356-60

The effect of dietary interventions to reduce blood pressure in normal humans. Luft FC, et al. **J Am Coll Nutr** 1989 Dec;8(6):495-503 (34 ref.)

Hypertension Prevention Trial (HPT): food pattern changes resulting from intervention on sodium, potassium, and energy intake. Hypertension Prevention Trial Research Group. Shah M, et al. **J Am Diet Assoc** 1990 Jan; 90(1):69-76

Defective venous beta-adrenergic response in borderline hypertensive subjects is corrected by a low sodium diet. Feldman RD. **J Clin Invest** 1990 Mar;85(3):647-52

Effects of dietary sodium restriction and posture on plasma levels of atrial natriuretic peptide, aldosterone and free aldosterone in normal human pregnancy. Steegers EA, et al. **J Endocrinol** 1990 Mar;124(3):507-13

The INTERSALT study: an addition to the evidence on salt and blood pressure, and some implications. Elliott P. **J Hum Hypertens** 1989 Oct;3(5):289-98 (76 ref.)

Antihypertensive contribution of sodium depletion and the sympathetic axis during chronic angiotensin II converting enzyme inhibition. Uehlinger DE, et al. **J Hypertens** 1989 Nov;7(11):901-7

The effects of daily sodium intake on the relationship of blood pressure, renal plasma flow and natriuresis in essential hypertension. Lasaridis AN, et al. **J Hypertens Suppl** 1989 Dec;7(6):S180-1

Effects of dietary sodium restriction and potassium intake on cholesterol side-chain cleavage cytochrome P-450 and adrenodoxin mRNA levels. Tremblay A, et al. **J Steroid Biochem** 1989;34(1-6):385-90

Dietary restriction of sodium as a means of reducing urinary cystine. Norman RW, et al. **J Urol** 1990 Jun;143(6):1193-5

Effect of sodium restriction on platelet function in patients with essential hypertension. Ikeda T, et al. **Jpn Heart J** 1989 May;30(3):365-73

Dietary sodium restriction: adverse effect on plasma lipids. Sharma AM, et al. **Klin Wochenschr** 1990 Jul 5;68(13):664-8

Double-blind study of three sodium intakes and long-term effects of sodium restriction in essential hypertension. MacGregor GA, et al. **Lancet** 1989 Nov 25;2(8674):1244-7

Serum calcium and salt restriction in the diet of patients with essential arterial hypertension. Uza G, et al. **Med Interne** 1989 Apr-Jun;27(2):93-7

The influence of oral potassium chloride on blood pressure in hypertensive men on a low-sodium diet [see comments] Grimm RH Jr, et al. **N Engl J Med** 1990 Mar 1; 322(9):569-74 Comment in: N Engl J Med 1990 Mar 1;322(9):623-4.

Urinary angiotensin excretion during sodium restriction and diuretics. Boer P, et al. **Nephrol Dial Transplant** 1989; 4(8):713-7

Interaction of enalapril with sodium restriction, diuretics, and slow-channel calcium-blocking drugs. Anderson A, et al. **Nephron** 1990;55 Suppl 1:70-2

Angiotensin II receptor binding in the rat hypothalamus and circumventricular organs during dietary sodium

deprivation. Yamada H, et al. **Neuroendocrinology** 1989 Oct;50(4):469–75

Dietary sodium deprivation does not alter taste sensitivity in the rat. Brosvic GM, et al. **Physiol Behav** 1990 May; 47(5):881–8

[Effects of sodium depletion in rats actively immunized against renin] Jover B, et al. **Arch Mal Coeur** 1989 Jul; 82(7):1329–32 (Eng. Abstr.) **(Fre)**

[Serum enzymes in grade I hypertensive patients before and following a change in nutrition in relation to polyene acid and electrolyte content] Junker L, et al. **Z Gesamte Inn Med** 1990 Jun 15;45(11):323–4 (Eng. Abstr.) **(Ger)**

[Non-drug therapy of hypertension] Kawasaki T. **Fukuoka Igaku Zasshi** 1989 Oct;80(10):451–5 **(Jpn)**

[General considerations in the treatment of hypertension] Arakawa K. **Nippon Naika Gakkai Zasshi** 1990 Jan 10; 79(1):33–7 **(Jpn)**

[Non-pharmacological treatment of hypertension] Nomura G. **Nippon Rinsho** 1989 Sep;47(9):2074–8 **(Jpn)**

[Plasma renin activity in patients with sodium-responsive and unresponsive essential hypertension] Kuska J, et al. **Pol Arch Med Wewn** 1987 Oct;78(4):197–206 (Eng. Abstr.) **(Pol)**

[Effectiveness of diet therapy of obesity in women in the climacteric period] Kowalczyk-Gawrysiak L, et al. **Wiad Lek** 1989 Jan 15;42(2):79–82 (Eng. Abstr.) **(Pol)**

[Table salt and arterial hypertension] Bakhshaliev AB, et al. **Kardiologiia** 1989 Sep;29(9):107–12 (66 ref.) **(Rus)**

[Therapeutic use of sodium chloride substitutes in circulatory insufficiency] Branshevskiĭ LL, et al. **Kardiologiia** 1989 Dec;29(12):120–3 (47 ref.) **(Rus)**

[Results of 3-year non-pharmacological therapy of patients with moderate arterial hypertension in an urban clinic] Korolenko AV. **Sov Med** 1990;(2):40–2 **(Rus)**

[Effect of moderate salt restriction on the antihypertensive action of nifedipine: a double blind study] Del Río A, et al. **Rev Clin Esp** 1990 Jan;186(1):5–10 (57 ref.) (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

[Effect of sodium depletion on the renin-angiotensin-aldosterone system and prostaglandins in patients with insulin-dependent diabetes mellitus] Koev D, et al. **Ann Endocrinol (Paris)** 1989;50(6):508–12 (33 ref.) (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Attributions for dietary failures: problems reported by participants in the Hypertension Prevention Trial. Jeffery RW, et al. **Health Psychol** 1990;9(3):315–29

DIET SURVEYS see under **NUTRITION SURVEYS**

DIET, SYNTHETIC see **FOOD, FORMULATED**

DIET THERAPY

Clinical intervention in chronic respiratory failure. Martin JG. **Chest** 1990 Mar;97(3 Suppl):105S–109S (42 ref.)

The clinical promise of diet restriction. Walford RL. **Geriatrics** 1990 Apr;45(4):81–3, 86–7 (27 ref.)

The impact of the diagnosis-related groups/prospective payment system on nutrition needs in home health and extended-care facilities. Sandall MJ, et al. **J Am Diet Assoc** 1989 Oct;89(10):1444–7

31P NMR study of the impact of dietary manipulation on tumor metabolism and response to methotrexate. Sijens PE, et al. **NMR Biomed** 1989 Jun;2(1):12–8

[Scientific approach in nutrition medicine and the example of diet fads] Sailer D. **Wien Med Wochenschr** 1990 May 15;140(9):223–6 (Eng. Abstr.) **(Ger)**

CLASSIFICATION

[New classification of diets] Agadzhanov SA. **Sov Med** 1990; (2):47–50 **(Rus)**

HISTORY

The Pseudo-Hippocratic Dynamidia. Riddle JM. **Sudhoffs Arch Beih** 1989;(27):283–311

[Dietetic aphorisms of the 6th book of the Epidemics and Herodikos of Selymbria] Kollesch J. **Sudhoffs Arch Beih** 1989;(27):191–7 **(Ger)**

PSYCHOLOGY

[Behavioral psychological problems in dietary counseling] Pudel V. **Verh Dtsch Ges Inn Med** 1989;95:639–42 (10 ref.) **(Ger)**

STANDARDS

Nutrition [letter] Boulton J. **Aust Fam Physician** 1990 Aug; 19(8):1301

TRENDS

[Current trends in hospital nutrition. The initial experience of the use of a main basic diet] Tikhonravova TA, et al. **Ter Arkh** 1989;61(8):104–10 **(Rus)**

DIETARY CALCIUM see **CALCIUM, DIETARY**

DIETARY CARBOHYDRATES

Energy expenditure in humans: effects of dietary fat and carbohydrate. Abbott WG, et al. **Am J Physiol** 1990 Feb; 258(2 Pt 1):E347–51

Effect of diet on triolein absorption in weanling rats. Flores CA, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):G38–44

Human pancreatic secretion and intestinal motility: effects of ileal nutrient perfusion. Layer P, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G196–201

'Sugar. Is it as dangerous as it's made out to be? [letter] **Br Dent J** 1990 Jul 21;169(2):39

'Sugar: the autumn issue' [letter; comment] [see comments] Hancocks S. **Br Dent J** 1989 Nov 11;167(9):303 Comment on: Br Dent J 1989 Sep 23;167(6):204–8. Comment in: Br Dent J 1989 Dec 9–23;167(11):369.

Patterns of sugar consumption in early childhood. Rossow I, et al. **Community Dent Oral Epidemiol** 1990 Feb; 18(1):12–6

Meal-related insulin supply in IDDM [letter] Chantelau E. **Diabetes Care** 1990 Jul;13(7):818

Glycemic index of foods in individual subjects. Wolever TM, et al. **Diabetes Care** 1990 Feb;13(2):126–32

Carbohydrate craving. Relationship between carbohydrate intake and disorders of mood. Wurtman JJ. **Drugs** 1990;39 Suppl 3:49–52 (13 ref.)

Major error in national nutrient database for dietary analysis [letter] Roberts DC, et al. **Med J Aust** 1990 Jun 18; 152(12):675

Effects of medium-chain triglyceride feeding on energy balance in adult humans. Dias VC, et al. **Metabolism** 1990 Sep;39(9):887–91

[Comparative effects of couscous and pasta on glycemia in normal subjects and type I diabetics] Jamel N, et al. **Diabete Metab** 1990 Jan–Feb;16(1):37–41 (Eng. Abstr.) **(Fre)**

ADMINISTRATION & DOSAGE

Comparison of daily diets containing 400 kcal (1.67 MJ) of either protein or glucose, and their effects on the response to subsequent total fasting in obese subjects. Gougeon-Reyburn R, et al. **Am J Clin Nutr** 1989 Oct; 50(4):746–58

Day-long glucose, insulin, and fructose responses of hyperinsulinemic and nonhyperinsulinemic men adapted to diets containing either fructose or high-amylose cornstarch. Reiser S, et al. **Am J Clin Nutr** 1989 Nov; 50(5):1008–14

Albumin and labile-protein serum concentrations during very-low-calorie diets with different compositions. Scalfi L, et al. **Am J Clin Nutr** 1990 Mar;51(3):338–42

A carbohydrate-rich diet not only leads to incorporation of medium-chain fatty acids (6:0–14:0) in milk triglycerides but also in each milk-phospholipid subclass. van Beusekom C, et al. **Am J Clin Nutr** 1990 Aug;52(2):326–34

Oxygen, food, and air travel [letter] Berger R. **Ann Intern Med** 1990 Feb 1;112(3):236

Dietary carbohydrate, alveolar gas, and chronic obstructive pulmonary disease [letter; comment] Dillard TA. **Ann Intern Med** 1990 Feb 15;112(4):309–10 Comment on: Ann Intern Med 1989 Nov 15;111(10):859–60.

Effect of prolonged galactose consumption on galactose tolerance in young healthy humans. Birlouez-Aragon I, et al. **Ann Nutr Metab** 1990;34(1):1–7

Effects of meal size reduction on postprandial variables in male volunteers. van Amelsvoort JM, et al. **Ann Nutr Metab** 1990;34(3):163–74

Dietary management of D-lactic acidosis in short bowel syndrome. Mayne AJ, et al. **Arch Dis Child** 1990 Feb; 65(2):229–31

Does bingeing restore bulimics' alleged 5-HT-deficiency? Jansen A, et al. **Behav Res Ther** 1989;27(5):555–60

Thermic effect of food in man: effect of meal composition, and energy content. Kinabo JL, et al. **Br J Nutr** 1990 Jul; 64(1):37–44

Minor difference in postprandial responses of men between starch and sugar when replacing fat in a normal meal. Van Amelsvoort JM, et al. **Br J Nutr** 1990 Jan;63(1):37–51

High-carbohydrate diet for long distance runners—a practical view-point. Fogelholm M, et al. **Br J Sports Med** 1989 Jun;23(2):94–6

Orienteering performance and ingestion of glucose and glucose polymers. Kujala UM, et al. **Br J Sports Med** 1989 Jun;23(2):105–8

A case-control study of diet and benign proliferative epithelial disorders of the breast. Rohan TE, et al. **Cancer Res** 1990 Jun 1;50(11):3176–81

Studies on methylmalonic acid in humans. I. Concentrations in serum and urinary excretion in normal subjects after feeding and during fasting, and after loading with protein, fat, sugar, isoleucine, and valine. Rasmussen K. **Clin Chem** 1989 Dec;35(12):2271–6

Dental health behaviours in a Norwegian population. Traeen B, et al. **Community Dent Health** 1990 Mar;7(1):59–68

Caries prevalence, Streptococcus mutans and sugar intake among 4-year-old urban children in Iceland. Holbrook WP, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):292–5

Frozen desserts and glycemic response in well-controlled NIDDM patients. Bukar J, et al. **Diabetes Care** 1990 Apr; 13(4):382–5

Effects of changing amount of carbohydrate in diet on plasma lipoproteins and apolipoproteins in type II diabetic patients. Rivellese AA, et al. **Diabetes Care** 1990 Apr;13(4):446–8

Post-exercise ketosis and the glycogen content of liver and muscle in rats on a high carbohydrate diet. Adams JH, et al. **Eur J Appl Physiol** 1989;59(3):189–94

Dietary salt and the glycaemic response to meals of different fibre content. Akanji AO, et al. **Eur J Clin Nutr** 1989 Oct; 43(10):699–703

Effects of cornstarch treatment in very young children with type I glycogen storage disease. Hayde M, et al. **Eur J Pediatr** 1990 Jun;149(9):630–3

Establishment of cellulolytic bacteria in the digestive tract of conventionally reared young mice: effect of the dietary cellulose content in the adult. Boulahrouf A, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):87–90

Increased sugar consumption in Japanese patients with Crohn's disease. Matsui T, et al. **Gastroenterol Jpn** 1990 Apr;25(2):271

Effect of ingested carbohydrate, fat, and protein on the release of somatostatin-28 in humans. Ensinck JW, et al. **Gastroenterology** 1990 Mar;98(3):633–8

Short and long term results of a progressive reintroduction of carbohydrates (PRCH) after a protein-sparing modified fast (PSMF). Bettens C, et al. **Int J Obes** 1989;13 Suppl 2:113–7

Blood levels of glucometabolic hormones and urinary saturation with stone forming phases after an oral test meal in male patients with recurrent idiopathic calcium urolithiasis and in healthy controls. Schwille PO, et al. **J Am Coll Nutr** 1989 Dec;8(6):557–66 (58 ref.)

The effects of variations in carbohydrate, protein, and fat content of the diet upon weight loss, blood values, and nutrient intake of adult obese women. Alford BB, et al. **J Am Diet Assoc** 1990 Apr;90(4):534–40

Effects of dietary carbohydrates on metabolism of calcium and other minerals in normal subjects and patients with noninsulin-dependent diabetes mellitus. Garg A, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1007–13

High carbohydrate fat-free diet modulates epitope expression of LDL-apoB-100 and interaction of LDL with human fibroblasts. Keidar S, et al. **J Lipid Res** 1989 Sep; 30(9):1131–9

Effects of lactose intake on nutritional status in premature infants. Kien CL, et al. **J Pediatr** 1990 Mar;116(3):446–9

Effect of formula carbohydrate concentration on tolerance and macronutrient absorption in infants with severe, chronic diarrhea. Lifschitz CH, et al. **J Pediatr** 1990 Sep; 117(3):378–83

Effect of dietary manipulation on a high intensity performance test. Ratz SR, et al. **J Sports Med Phys Fitness** 1989 Jun;29(2):129–35

Increased dietary carbohydrate and endurance during single-leg cycling using a limb with normal muscle glycogen concentration. Hardman AE, et al. **J Sports Sci** 1989 Summer;7(2):127–38 (33 ref.)

Comparison of low, medium, and high carbohydrate formulas for nighttime enteral feedings in cystic fibrosis patients. Kane RE, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):47–52

Comparison of glycemic response and insulin requirements after mixed meals of equal carbohydrate content in healthy, type-1, and type-2 diabetic man. Schrezenmeir J, et al. **Klin Wochenschr** 1989 Oct 2;67(19):985–94

Intakes and sources of a range of dietary sugars in various Australian populations. Baghurst KI, et al. **Med J Aust** 1989 Nov 6;151(9):512–8

Weight loss, dietary carbohydrate modifications, and high intensity, physical performance. Horswill CA, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):470–6

Effects of 4 h preexercise carbohydrate feedings on cycling performance. Sherman WM, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):598–604

A high carbohydrate-fat free diet alters the proportion of heparin-bound VLDL in plasma and the expression of VLDL-apoB-100 epitopes. Keidar S, et al. **Metabolism** 1990 Mar;39(3):281–8

Long-term effects of dietary fructose on carbohydrate metabolism in non-insulin-dependent diabetes mellitus. Thorburn AW, et al. **Metabolism** 1990 Jan;39(1):58–63

Effects of l-tryptophan and various diets on behavioral functions in essential hypertensives. Lehnert H, et al. **Neuropsychobiology** 1989;21(2):84–9

Hypoglycemia and endurance exercise: dietary considerations. Rutherford WJ. **Nutr Health** 1990; 6(4):173–81 (46 ref.)

Preference conditioning by concurrent diets with delayed proportional reinforcement. Baker BJ, et al. **Physiol Behav** 1989 Oct;46(4):585–90

Role of prefeedings, plasma amino acid ratios and brain serotonin levels in carbohydrate and protein selection. Holder MD, et al. **Physiol Behav** 1990 Jan;47(1):113–9

Dietary hyperphagia in rats: role of fat, carbohydrate, and energy content. Ramirez I, et al. **Physiol Behav** 1990 Jun; 47(6):1157–63

Implications of nutritional recommendations on sugar for product development. Jardine NJ, et al. **Proc Nutr Soc** 1990 Feb;49(1):23–30 (21 ref.)

Sucrose consumption and salivary sucrase activity in a 2-year longitudinal study. Karjalainen S, et al. **Scand J Dent Res** 1989 Oct;97(5):401–4

Caries and consumption of sweets in 15- and 18-year-olds interviewed with visualization. Sundin B.

Scand J Dent Res 1990 Apr;98(2):96–101
Regulation of acetyl CoA carboxylase mRNA in rat liver by high carbohydrate diet and insulin. Choi DH, et al. Yonsei Med J 1989 Sep;30(3):235–45
[Carbohydrates and depression] Møller SE. Ugeskr Laeger 1989 Sep 4;151(36):2250–2 (Eng. Abstr.) (Dan)
[Methodologic problems related to the interpretation of glycemic response studies] Nielsen GL. Ugeskr Laeger 1990 Jan 22;152(4):217–20 (Eng. Abstr.) (Dan)
[Measuring of the energy turnover in adult swine during feeding of rations with potato starch, potatoes, beets, pressed shreds and coarse fodder as supplements to a basic ration. 2. Evaluation and discussion of the results for further development of energetic feed rating for swine] Hoffmann L, et al. Arch Tierernahr 1990 Mar;40(3):209–19 (Eng. Abstr.) (Ger)
[Measuring energy turnover in the adult swine during feeding of rations with potato starch, potatoes, beets, pressed shreds and coarse fodder as supplements to a basic ration. 1. Energy turnover and energy utilization] Hoffmann L, et al. Arch Tierernahr 1990 Mar;40(3):191–207 (Eng. Abstr.) (Ger)
[Carbohydrates in the treatment of glycogenoses] Hayde M, et al. Infusionstherapie 1990 Apr;17(2):69–72 (Eng. Abstr.) (Ger)
[Effect of various calorie substrates on protein homeostasis] Schauder P. Infusionstherapie 1989 Aug;16 Suppl 1:34–5 (10 ref.) (Ger)
[The significance of carbohydrates in reducing diets] Zwiauer K. Infusionstherapie 1989 Aug;16(4):176–81 (26 ref.) (Eng. Abstr.) (Ger)
[Dermatomycoses and an antifungal diet] Putzier E. Wien Med Wochenschr 1989 Aug 31;139(15–16):379–80 (Eng. Abstr.) (Ger)
[Caries, gingivitis and periodontitis in 12- to 14-year olds under conditions of sugar restriction—research on type-1 diabetics] Poppe B, et al. Zahn Mund Kieferheilkd 1989; 77(7):674–9 (Eng. Abstr.) (Ger)
[The level of consumption of sweets by the population and dental caries] Redinova TL, et al. Stomatologiia (Mosk) 1990 Jan–Feb;69(1):66–8 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Sugar consumption and caries experience in 12- and 13-year-old Icelandic children. Bjarnason S, et al. Acta Odontol Scand 1989 Oct;47(5):315–21
Dietary carbohydrate and serum cholesterol levels in man. McGandy RB, et al. Am J Clin Nutr 1966 Apr;18(4):237–42
Dietary fructose enhances the development of atypical acinar cell nodules in the pancreas of rats pretreated with N-nitrosomorpholine. Enzmann H, et al. Arch Geschwulstforsch 1990;60(4):283–7
Sugars and caries link [editorial] Br Dent J 1990 Jan 20; 168(2):45
'Dietary sugars and human disease': conclusions and recommendations. Br Dent J 1990 Jan 20;168(2):46
'Sugar: the autumn issue' [letter; comment] Br Dent J 1990 Jan 20;168(2):54 Comment on: Br Dent J 1989 Dec 9–23;167(11):369.
Snack foods and dental caries. Investigations using laboratory animals. Grenby TH. Br Dent J 1990 May 5;168(9):353–61
The other side of confection use and dental caries. Kleinberg I. Can Dent Assoc J 1989 Oct;55(10):837–8 (16 ref.)
Dietary sugars and human disease [editorial] Rugg-Gunn AJ. Community Dent Health 1990 Mar;7(1):1–2
COMAtose; or a report on sugar [editorial] Home P. Diabetic Med 1990 Mar–Apr;7(3):197–8
Diet and dyslexia [letter; comment] Worrall RS, et al. J Am Optom Assoc 1990 Jan;61(1):18–21 Comment on: J Am Optom Assoc 1989 Jan;60(1):10–3.
[The lacto-tampon concept. Determination and prevention of an increased risk for caries] Wikner S. Rev Belge Med Dent 1989;44(1):37–45 (Eng. Abstr.) (Fre)
[Secondary carbohydrate and protein intolerances following gastroenteritis] Stern M. Monatsschr Kinderheilkd 1989 Sep;137(9):585–9 (38 ref.) (Eng. Abstr.) (Ger)
[Arteriosclerosis and cancer—fats or carbohydrates? (letter)] Schwandt P, et al. Wien Klin Wochenschr 1989 Nov 24; 101(22):787–9 (Ger)
[The role of the carbohydrate composition of the diet in the development of morphofunctional changes in the wall of blood vessels] Gulich MP. Vrach Delo 1989 Dec;(12):25–7 (Eng. Abstr.) (Rus)

ANALYSIS

Sugar in breakfast cereals [letter] Slater MA, et al. Aust Dent J 1990 Apr;35(2):195–6
Relationships between the biochemical composition of both free smooth surface and approximal plaque and salivary composition and a 24-hour retrospective dietary history of sugar intake in adolescents. Wilson RF, et al. Caries Res 1990;24(3):203–10

METABOLISM

The type of dietary carbohydrate consumed during pregnancy and lactation determines copper status of the fetus and the neonate rat. Fields M, et al. Adv Exp Med Biol 1989;258:59–70
Pasta cooking time: influence on starch digestion and plasma glucose and insulin responses in healthy subjects. Bornet FR, et al. Am J Clin Nutr 1990 Mar;51(3):421–7
Absorption of carbohydrate from rice in Burmese village children and adults. Khin-Maung-U, et al. Am J Clin Nutr 1990 Aug;52(2):342–7
Malabsorption of carbohydrate from rice and child growth: a longitudinal study with the breath-hydrogen test in Burmese village children. Khin-Maung-U, et al. Am J Clin Nutr 1990 Aug;52(2):348–52
Energy values of unavailable carbohydrate and diets: an inquiry and analysis. Livesey G. Am J Clin Nutr 1990 Apr; 51(4):617–37 (14 ref.)
Consequences of severe copper deficiency are independent of dietary carbohydrate in young pigs. Schoenemann HM, et al. Am J Clin Nutr 1990 Jul;52(1):147–54
Ingestion of different types of fat in the evening meal does not affect metabolic responses to a standard breakfast. Traianedes K, et al. Am J Clin Nutr 1990 Sep;52(3):442–5
Boys from populations with high-carbohydrate intake have higher fasting triglyceride levels than boys from populations with high-fat intake. West CE, et al. Am J Epidemiol 1990 Feb;131(2):271–82
Carbohydrate tolerance improves with fasting in obese subjects with noninsulin-dependent (type II) diabetes. Watts NB, et al. Am J Med Sci 1990 Apr;299(4):250–6
Subcutaneous adipose tissue: a source of lactate production after glucose ingestion in humans. Hagström E, et al. Am J Physiol 1990 May;258(5 Pt 1):E888–93
Nutrient imbalances in depressive disorders. Possible brain mechanisms. Wurtman RJ, et al. Ann N Y Acad Sci 1989; 575:75–82; discussion 82–5
Studies on the evaluation of feed protein for ruminants. 1. Passage of nitrogen fractions to the duodenum of dairy cows fed different protein and carbohydrate sources. Voigt J, et al. Arch Tierernahr 1990 Mar;40(3):245–57
Digestion of fibre polysaccharides of pea (Pisum sativum) hulls, carrot and cabbage by adult cockerels. Longstaff M, et al. Br J Nutr 1989 Nov;62(3):563–77
The effect of lactulose, pectin, arabinogalactan and cellulose on the production of organic acids and metabolism of ammonia by intestinal bacteria in a faecal incubation system [see comments] Vince AJ, et al. Br J Nutr 1990 Jan; 63(1):17–26 Comment in: Br J Nutr 1990 Jan;63(1):5–6.
Cholinergic blockade with pirenzepine improves carbohydrate tolerance and abolishes the GH response to meals in normal subjects. Page MD, et al. Clin Endocrinol (Oxf) 1989 May;30(5):519–24
Discrepancy between estimated energy intake and requirement in female dancers. Dahlström M, et al. Clin Physiol 1990 Jan;10(1):11–25
Effects of glucose on nitrogen balance during high nitrogen intake in malnourished patients. Forse RA, et al. Clin Sci 1990 Mar;78(3):273–81
Diet selection by adult female Parcoblatta fulvescens cockroaches during the oothecal cycle. Lembke HF, et al. Comp Biochem Physiol [A] 1990;95(1):195–9
Metabolic effects of dietary fructose. Hallfrisch J. FASEB J 1990 Jun;4(9):2652–60 (40 ref.)
Contribution of low-molecular-weight compounds to the fecal excretion of carbohydrate energy in premature infants. Kien CL, et al. Gastroenterology 1990 Jul; 99(1):165–74
13CO2 breath test to measure the hydrolysis of various starch formulations in healthy subjects. Hiele M, et al. Gut 1990 Feb;31(2):175–8
Carbohydrate digestion and release of pancreatic polypeptide in health and diabetes mellitus. Layer P, et al. Gut 1989 Sep;30(9):1279–84
Effect of dietary fiber from banana (Musa paradisiaca) on metabolism of carbohydrates in rats fed cholesterol free diet. Usha V, et al. Indian J Exp Biol 1989 May;27(5):445–9
Effect of fructose consumption during lactation on sow and litter performance and sow plasma constituents. Campbell WJ, et al. J Anim Sci 1990 May;68(5):1378–88
Temporal changes in carbohydrate digestive capacity and growth rate of piglets in response to glucocorticoid administration and weaning age. Chapple RP, et al. J Anim Sci 1989 Nov;67(11):2985–95
Effect of glucocorticoids and limiting nursing on the carbohydrate digestive capacity and growth rate of piglets. Chapple RP, et al. J Anim Sci 1989 Nov;67(11):2956–73
Effects of protein and energy supplementation of Guernsey cows on the kinetics of digestion and passage of orchardgrass versus alfalfa. Solaiman SG, et al. J Anim Sci 1990 Jul;68(7):2119–29
Effects of protein and carbohydrate sources on digestibility and digesta flow rate in weaned pigs fed a high-fat, dry diet. Turlington WH, et al. J Anim Sci 1989 Sep; 67(9):2333–40
Effect of a high-carbohydrate, low-saturated-fat diet on apolipoprotein B and triglyceride metabolism in Pima Indians. Abbott WG, et al. J Clin Invest 1990 Aug; 86(2):642–50
Response of early lactation dairy cows fed diets varying in source of nonstructural carbohydrate and crude protein. Casper DP, et al. J Dairy Sci 1990 Apr;73(4):1039–50
Effects of source of protein and carbohydrate on ruminal fermentation and passage of nutrients to the small intestine of lactating cows. McCarthy RD Jr, et al. J Dairy Sci 1989 Aug;72(8):2002–16
Evidence for a critical period during late gestation when maternal dietary carbohydrate is essential for survival of newborn rats. Koski KG, et al. J Nutr 1990 Sep; 120(9):1016–27
Altered lactational performance in rats fed low carbohydrate diets and its effect on growth of neonatal rat pups. Koski KG, et al. J Nutr 1990 Sep;120(9):1028–36
Effect of age and diet on glucose tolerance in Sprague-Dawley rats. McDonald RB. J Nutr 1990 Jun; 120(6):598–601
Effects of diets rich in fermentable carbohydrates on plasma lipoprotein levels and on lipoprotein catabolism in rats. Mazur A, et al. J Nutr 1990 Sep;120(9):1037–45
Resistance to dietary hyperphagia in juvenile rats. Ramirez I. J Nutr 1989 Sep;119(9):1333–9
Protein and energy relationships in the diet of the American alligator (Alligator mississippiensis). Staton MA, et al. J Nutr 1990 Jul;120(7):775–85
Selective increase in carbohydrate intake by rats treated with 8-hydroxy-2-(di-n-propylamino)-tetraline or buspirone. Luo SQ, et al. Life Sci 1990;46(23):1643–8
High-intensity exercise performance is not impaired by low intramuscular glycogen. Symons JD, et al. Med Sci Sports Exerc 1989 Oct;21(5):550–7
Effects of energy restriction on norepinephrine turnover and serum glucose and fatty acids in lean mice. Davis-Street JE, et al. Pharmacol Biochem Behav 1990 Mar;35(3):677–83
Interrelationship between metabolism of lipids and glucose. Palicka W, et al. Przegl Lek 1989;46(7):611–4 (Eng, Pol)
Dietary factors in mammalian toxicity of chemicals. Iyaniwura TT. Vet Hum Toxicol 1990 Apr;32(2):106–10
The glycemic index. Wolever TM. World Rev Nutr Diet 1990;62:120–85 (291 ref.)
[Carbohydrate digestion and intestinal function disorders] Beaugerie L. Ann Gastroenterol Hepatol (Paris) 1990 Mar–Apr;26(2):67–70 (15 ref.) (Fre)
[Intestinal malabsorption of starch and gas production in the colon] Flourié B, et al. Ann Gastroenterol Hepatol (Paris) 1989 Oct;25(5):229–33 (Eng. Abstr.) (Fre)
[Eating before, during and after physical exercise in normal and diabetic subjects] Jandrain B, et al. Journ Annu Diabetol Hotel Dieu 1990;:159–70 (74 ref.) (Fre)
[Studies on the absorption of carbohydrate and nitrogen sources in elemental diets] Oheda Y. Nippon Geka Gakkai Zasshi 1989 May;90(5):661–8 (Eng. Abstr.) (Jpn)
[Ca2+-dependent mechanisms of membrane carbohydrate hydrolysis and of the transport of the monosaccharides being formed in the small intestine] Gurman EG. Fiziol Zh SSSR 1989 Sep;75(9):1256–61 (Eng. Abstr.) (Rus)
[Nonenzymatic glycosylation of serum albumin and thymic DNA by food monosugars and their natural metabolites that form in the body] Gapparov MM, et al. Vopr Pitan 1990 Jan–Feb;(1):36–40 (Eng. Abstr.) (Rus)

PHARMACOKINETICS

Effect of sucrose on the metabolic disposition of aspartame. Stegink LD, et al. Am J Clin Nutr 1990 Aug;52(2):335–41

PHARMACOLOGY

Alcohol as a nutrient: interactions between ethanol and carbohydrate. Guthrie GD, et al. Alcoholism (N Y) 1990 Feb;14(1):17–22
All bran vs corn flakes: plasma glucose and insulin responses in young females [see comments] Behme MT, et al. Am J Clin Nutr 1989 Dec;50(6):1240–3 Comment in: Am J Clin Nutr 1990 Jun;51(6):1113–4.
High-carbohydrate, high-fiber diets increase peripheral insulin sensitivity in healthy young and old adults. Fukagawa NK, et al. Am J Clin Nutr 1990 Sep;52(3):524–8
Changes in serum lipid levels of hyperlipemic patients following the feeding of starch, sucrose and glucose. Kaufmann NA, et al. Am J Clin Nutr 1966 Apr;18(4):261–9
Determination of peak trabecular bone density: interplay of dietary fiber, carbohydrate, and androgens. Leuenberger PK, et al. Am J Clin Nutr 1989 Nov;50(5):955–61
Some interesting relationships between dietary carbohydrates and serum cholesterol. Lopez A, et al. Am J Clin Nutr 1966 Feb;18(2):149–53
The lipid response of postmenopausal women to dietary carbohydrates. MacDonald I. Am J Clin Nutr 1966 Feb; 18(2):86–90
Influence of fructose and glucose on serum lipid levels in men and pre- and postmenopausal women. Macdonald I. Am J Clin Nutr 1966 May;18(5):369–72
Protein turnover and thermogenesis in response to high-protein and high-carbohydrate feeding in men. Robinson SM, et al. Am J Clin Nutr 1990 Jul;52(1):72–80
Gastric emptying and glycemic response after ingestion of mashed bean or potato flakes in composite meals. Torsdottir I, et al. Am J Clin Nutr 1989 Dec;50(6):1415–9
Effect of a high-fat-sucrose diet on in vivo insulin receptor kinase activation. Boyd JJ, et al. Am J Physiol 1990 Jul; 259(1 Pt 1):E111–6
Effect of 5% galactose diet on galactose and dulcitol in plasma and lens of male and female pigs. Alloussi S, et al. Ann Nutr Metab 1989;33(6):323–9
Effects of food snacks on cognitive performance in male college students. Kanarek RB, et al. Appetite 1990 Feb; 14(1):15–27
Diet composition alters the acceptance of fat by rats. Reed

DR, et al. **Appetite** 1990 Jun;14(3):219–30
Dietary nucleotides reverse malnutrition and starvation-induced immunosuppression. Pizzini RP, et al. **Arch Surg** 1990 Jan;125(1):86–9; discussion 90
Organ specific regulation of malic enzyme and hexosemonophosphate shunt dehydrogenases activity by high carbohydrate diet. Zelewski M, et al. **Biochem Int** 1989 Nov;19(5):1057–65
Regulation by a protein-free carbohydrate-rich diet of rat pancreatic mRNAs encoding trypsin and elastase isoenzymes. Dakka N, et al. **Biochem J** 1990 Jun 1; 268(2):471–4
Dietary carbohydrate influences tissue fatty acid and lipid composition in the copper-deficient rat. Cunnane SC, et al. **Biol Trace Elem Res** 1989–90 Winter;23:77–87
Consequences of copper deficiency are not differentially influenced by carbohydrate source in young pigs fed a dried skim milk-based diet. Schoenemann HM, et al. **Biol Trace Elem Res** 1990 Apr;25(1):21–33
Urinary mineral ion loss after sugar ingestion. Ericsson Y, et al. **Bone Miner** 1990 Jun;9(3):233–7
Effects of some poorly digestible carbohydrates on bile acid bacterial transformations in the rat [published erratum appears in Br J Nutr 1989 Sep;62(2):following 525] Andrieux C, et al. **Br J Nutr** 1989 Jul;62(1):103–19
The effect of moderately increased intakes of complex carbohydrates (cereals, vegetables and fruit) for 12 weeks on iron and zinc metabolism. Mason PM, et al. **Br J Nutr** 1990 May;63(3):597–611
Ingestion of carbohydrates varying in complexity produce differential brain responses. Fishbein DH, et al. **Clin Electroencephalogr** 1990 Jan;21(1):5–11
Lower fat deposition and energy utilization of growing rats fed diets containing sorbose. Furuse M, et al. **Comp Biochem Physiol [A]** 1989;94(4):813–7
Effects of dietary carbohydrate and phenotype on thyroid hormones and brown adipose tissue locularity in adult LA/N-cp rats. Tulp OL, et al. **Comp Biochem Physiol [A]** 1989;94(2):225–9
The effects of increased dietary cellulose on the anatomy, physiology and behaviour of captive water voles, Arvicola terrestris (L.) (Rodentia: Microtinae). Woodall PF. **Comp Biochem Physiol [A]** 1989;94(4):615–21
The role of insulin in triglyceride turnover in rats. Iwai M, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S115–8
Fate of antacid gel in the stomach. Site of action and interaction with food. Bauerfeind P, et al. **Dig Dis Sci** 1990 May;35(5):553–8
Carbohydrate feeding and exercise: effect of beverage carbohydrate content. Murray R, et al. **Eur J Appl Physiol** 1989;59(1–2):152–8
Influence of carbohydrate ingestion on counterregulatory hormones during prolonged exercise. Mitchell JB, et al. **Int J Sports Med** 1990 Feb;11(1):33–6
Liver cholesterol concentrations in mice fed diets containing various sources of fat, carbohydrates or fiber. Beynen AC, et al. **Int J Vitam Nutr Res** 1989;59(4):401–5
Effects of 4- and 8-h preexercise feedings on substrate use and performance. Flynn MG, et al. **J Appl Physiol** 1989 Nov;67(5):2066–71
Influence of carbohydrate dosage on exercise performance and glycogen metabolism. Mitchell JB, et al. **J Appl Physiol** 1989 Nov;67(5):1843–9
Activation of branched-chain alpha-keto acid dehydrogenase complex by exercise: effect of high-fat diet intake. Shimomura Y, et al. **J Appl Physiol** 1990 Jan; 68(1):161–5
Enhancement of arm exercise endurance capacity with dihydroxyacetone and pyruvate. Stanko RT, et al. **J Appl Physiol** 1990 Jan;68(1):119–24
Thyroid hormone and dietary carbohydrate interact to regulate rat liver S14 gene transcription and chromatin structure. Jump DB, et al. **J Biol Chem** 1990 Feb 25; 265(6):3474–8
Sympathetic response to oral carbohydrate administration. Evidence from microelectrode nerve recordings. Berne C, et al. **J Clin Invest** 1989 Nov;84(5):1403–9
The predictive capability of the glycaemic response to spaghetti in non-insulin dependent (NIDDM) and insulin dependent (IDDM) diabetic subjects. Rasmussen O, et al. **J Intern Med** 1990 Aug;228(2):97–101
Effect of dietary fat, starch and cellulose on fecal bile acids in mice. Bianchini F, et al. **J Nutr** 1989 Nov; 119(11):1617–24
Consumption of raw potato starch alters intestinal function and colonic cell proliferation in the rat. Calvert RJ, et al. **J Nutr** 1989 Nov;119(11):1610–6
Effects of feeding fermentable carbohydrates on the cecal concentrations of minerals and their fluxes between the cecum and blood plasma in the rat. Demigné C, et al. **J Nutr** 1989 Nov;119(11):1625–30
Effect of viscous indigestible polysaccharides on pancreatic-biliary secretion and digestive organs in rats. Ikegami S, et al. **J Nutr** 1990 Apr;120(4):353–60
Influence of dietary carbohydrate-to-fat ratio on whole body nitrogen retention and body composition in adult rats. McCargar LJ, et al. **J Nutr** 1989 Sep;119(9):1240–5
Effects of starch, sucrose, fructose and glucose on chromium absorption and tissue concentrations in obese and lean mice. Seaborn CD, et al. **J Nutr** 1989 Oct;119(10):1444–51
Food intake and choice in lean and obese Zucker rats after intragastric carbohydrate preloads. Van Zeggeren A, et al. **J Nutr** 1990 Mar;120(3):309–16
Sugar-dependent selective induction of mouse jejunal disaccharidase activities. Collins AJ, et al. **J Physiol (Lond)** 1989 Dec;419:157–67
Glycogen repletion and exercise endurance in rats adapted to a high fat diet. Conlee RK, et al. **Metabolism** 1990 Mar; 39(3):289–94
Plasma cortisol concentration following breakfasts of different composition in healthy subjects. Zancanaro C, et al. **Minerva Endocrinol** 1989 Jul–Sep;14(3):143–6
Regulation of pancreatic amylase by dietary carbohydrate in chronic alcoholic rats. Sankaran H, et al. **Pancreas** 1989; 4(6):733–8
Relationships between sustained sucrose-feeding and opioid tolerance and withdrawal. Schoenbaum GM, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):911–4
The effect of protein or carbohydrate breakfasts on subsequent plasma amino acid levels, satiety and nutrient selection in normal males. Teff KL, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):829–37
Effect of dietary carbohydrates on insulin and glucagon receptors in a new model of noninsulin-dependent diabetes-SHR/N-corpulent rat. Bhathena SJ, et al. **Proc Soc Exp Biol Med** 1989 Oct;192(1):66–71
Comparison of copper status in rats when dietary fructose is replaced by either cornstarch or glucose. Koh ET. **Proc Soc Exp Biol Med** 1990 Jun;194(2):108–13
Effects of protein level, methionine supplementation and carbohydrate type of the diet on liver lipid and plasma free threonine contents in the lactating rat. Leclerc J, et al. **Reprod Nutr Dev** 1989;29(3):269–76
Variations in microsomal parameters of intact and regenerating rat liver with time and on feeding high carbohydrate diets. Gershbein LL. **Res Commun Chem Pathol Pharmacol** 1990 May; 68(2):205–17
Effect of carbohydrate ingestion on exercise of varying intensity and duration. Practical implications. Hasson SM, et al. **Sports Med** 1989 Dec;8(6):327–34 (56 ref.)
[Effect of high carbohydrate and high fat diets on plasma glucose, insulin and lipids in normal and hypertriglyceridemic subjects] Liu B, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):145–9 (Eng. Abstr.) **(Chi)**
[Lipids, proteins and carbohydrates stimulate the secretion of intestinal cholecystokinin in the pig] Cuber JC, et al. **Reprod Nutr Dev** 1990;30(2):267–75 (Eng. Abstr.) **(Fre)**
[Influence of enterococci on the recovery of intestinal microflora changed by antibiotic therapy and carbohydrate nutrition] Korshunov VM, et al. **Antibiot Khimioter** 1989 Jun;34(6):433–7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Protein and carbohydrate selection respond to changes in dietary saturated fatty acids but not to changes in essential fatty acids. McGee CD, et al. **Life Sci** 1990;47(1):67–76

THERAPEUTIC USE

Effect of low fat-high carbohydrate diets in hypertensive patients with non-insulin-dependent diabetes mellitus. Fuh MM, et al. **Am J Hypertens** 1990 Jul;3(7):527–32
[Diet and non-insulin-dependent diabetes mellitus: historic and current perspectives] Fernández Soto ML, et al. **Rev Clin Esp** 1990 Feb;186(3):131–3 (26 ref.) (Eng. Abstr.) **(Spa)**

DIETARY CHOLESTEROL see **CHOLESTEROL, DIETARY**

DIETARY EGG PROTEINS see **EGG PROTEINS, DIETARY**

DIETARY FATS

Butterfat and the Navy Ration Law [letter] Savage RW, et al. **Am J Cardiol** 1990 Aug 15;66(4):528
Trends in individual consumption of dietary fat in the United States, 1920–1984. Stephen AM, et al. **Am J Clin Nutr** 1990 Sep;52(3):457–69 (187 ref.)
Energy expenditure in humans: effects of dietary fat and carbohydrate. Abbott WG, et al. **Am J Physiol** 1990 Feb; 258(2 Pt 1):E347–51
Human pancreatic secretion and intestinal motility: effects of ileal nutrient perfusion. Layer P, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G196–201
Proton nuclear magnetic resonance methyl and methylene linewidths from plasma decrease during postprandial lipemia. Verdery RB, et al. **Biochim Biophys Acta** 1989 Dec 18;1006(3):287–90
Enhancement of pancreatic carcinogenesis in hamsters fed a high-fat diet ad libitum and at a controlled calorie intake. Birt DF, et al. **Cancer Res** 1989 Nov 1;49(21):5848–51
Restaurant menu labeling: impact of nutrition information on entree sales and patron attitudes. Albright CL, et al. **Health Educ Q** 1990 Summer;17(2):157–67
Beware of the cow [letter] **Lancet** 1989 Dec 2;2(8675):1334
Effects of a fat-containing meal on sex hormones in men. Meikle AW, et al. **Metabolism** 1990 Sep;39(9):943–6
Public support for policy initiatives regulating high-fat food use in Minnesota: a multicommunity survey. Schmid TL, et al. **Prev Med** 1989 Nov;18(6):791–805
Low density lipoprotein rich in oleic acid is protected against oxidative modification: implications for dietary prevention of atherosclerosis. Parthasarathy S, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3894–8
This and that: on artificial fats and the first effective treatment for fits. Max B. **Trends Pharmacol Sci** 1990 Jun;11(6):225–9
[Trends in lipid consumption in the Czechoslovak population] Hejda S, et al. **Cas Lek Cesk** 1990 Jan 5;129(1):11–4 (Eng. Abstr.) **(Cze)**
[Polyunsaturated fatty acids on the Danish market (letter)] Sääv H. **Ugeskr Laeger** 1990 Jun 4;152(23):1683–4 **(Dan)**
[Low-fat milk as a cause of infantile colic and failure-to-thrive in the breast-fed baby (editorial)] Dinari G, et al. **Harefuah** 1989 Dec 15;117(12):464–6 **(Heb)**
[The possibility of mathematical expression of the biological value of proteins and fats in food products] Vitenberg GF. **Vopr Pitan** 1989 Sep–Oct;(5):66–9 **(Rus)**

ADMINISTRATION & DOSAGE

Effect of lard and corn oil intake on serum lipids in young men. Imaki M, et al. **Acta Biol Hung** 1989;40(3):271–82
Nutrition and coronary heart disease. Pedersen JI. **Acta Cardiol** 1989;44(6):468–9
Dietary fatty acids and antioxidant vitamins and the risk of coronary heart disease: the Scottish experience. Riemersma RA. **Acta Cardiol** 1989;44(6):482–3
Fat modified diet in the prevention of cardiovascular disease. Recommendations and guidelines. Schwandt P. **Acta Cardiol** 1989;44(6):490–2
Nutrition, the child and atherosclerosis. A commentary. Deckelbaum RJ. **Acta Paediatr Scand Suppl** 1990;365:7–12
Dietary fat and natural-killer-cell activity. Barone J, et al. **Am J Clin Nutr** 1989 Oct;50(4):861–7
Differential effect of protein and fat ingestion on blood glucose responses to high- and low-glycemic-index carbohydrates in noninsulin-dependent diabetic subjects. Gulliford MC, et al. **Am J Clin Nutr** 1989 Oct;50(4):773–7
Cholesterol-lowering effect of a low-fat diet containing lean beef is reversed by the addition of beef fat. O'Dea K, et al. **Am J Clin Nutr** 1990 Sep;52(3):491–4
Effect of diets high in butter, corn oil, or high-oleic acid sunflower oil on serum lipids and apolipoproteins in men. Wardlaw GM, et al. **Am J Clin Nutr** 1990 May;51(5):815–21
Effect of low fat-high carbohydrate diets in hypertensive patients with non-insulin-dependent diabetes mellitus. Fuh MM, et al. **Am J Hypertens** 1990 Jul;3(7):527–32
Effects of meal size reduction on postprandial variables in male volunteers. van Amelsvoort JM, et al. **Ann Nutr Metab** 1990;34(3):163–74
Effect of low dietary lipid on the development of Sjögren's syndrome and haematological abnormalities in (NZB x NZW)F1 mice. Swanson CA, et al. **Ann Rheum Dis** 1989 Sep;48(9):765–70
Cholesterol and diet [letter; comment] Leung SS, et al. **Arch Dis Child** 1989 Nov;64(11):1642–3 Comment on: Arch Dis Child 1989 May;64(5):647–8.
Lipoprotein profiles and their relation to animal fat intake in healthy old people from four Spanish localities. Velasco R, et al. **Arch Gerontol Geriatr** 1989 Sep–Oct;9(2):97–105
Results of a randomized feasibility study of a low-fat diet. Insull W Jr, et al. **Arch Intern Med** 1990 Feb;150(2):421–7
Effects of exercise, dietary cholesterol, and dietary fat on blood lipids. Johnson C, et al. **Arch Intern Med** 1990 Jan; 150(1):137–41
Tube feeding in elderly patients [letter; comment] Vellas BJ, et al. **Arch Intern Med** 1990 Apr;150(4):912, 914–5 Comment on: Arch Intern Med 1989 Mar;149(3):557–60.
Apolipoprotein E4 homozygosity predisposes to serum cholesterol elevation during high fat diet. Tikkanen MJ, et al. **Arteriosclerosis** 1990 Mar–Apr;10(2):285–8
Increased serum and liver lipid mass and hepatic 3-hydroxy-3-methylglutaryl CoA reductase activities in rabbits fed soy protein saturated fat diets. Bauer JE. **Artery** 1990;17(4):176–88
Effect of a high fat/cholesterol diet with or without eicosapentaenoic acid on plasma lipids, lipoproteins and lipid transfer protein activity in the marmoset. Abbey M, et al. **Atherosclerosis** 1990 Apr;81(3):163–74
Learning and memory impairment in rats fed a high saturated fat diet. Greenwood CE, et al. **Behav Neural Biol** 1990 Jan;53(1):74–87
Rat pancreatic colipase mRNA: nucleotide sequence of a cDNA clone and nutritional regulation by a lipidic diet. Wicker C, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):130–6
Differential effects of fat deficiency on hepatic and pulmonary drug metabolizing enzymes in rat and mouse. Koul IB, et al. **Biochem Int** 1990;20(5):979–89
Whole body and hepatic cholesterol synthesis rates in the guinea-pig: effect of dietary fat quality. Fernandez ML, et al. **Biochim Biophys Acta** 1990 Jun 14;1044(3):340–8
Effects of marine oil-enriched diets on guinea pig megakaryocyte and platelet lipids: effects on thromboxane synthesis and platelet function. Schick PK, et al. **Biochim Biophys Acta** 1990 Feb 16;1022(1):49–56
Cholesteryl ester transfer activity in hamster plasma: increase by fat and cholesterol rich diets. Stein Y, et al. **Biochim Biophys Acta** 1990 Jan 16;1042(1):138–41
Dietary intake and plasma lipid levels [letter] Lockton JA, et al. **BMJ** 1990 Jul 7;301(6742):43–4
Effect of n-3 fatty acids on spontaneous and experimental metastasis of rat mammary tumour 13762. Adams LM, et

al. **Br J Cancer** 1990 Feb;61(2):290–1

Thermic effect of food in man: effect of meal composition, and energy content. Kinabo JL, et al. **Br J Nutr** 1990 Jul; 64(1):37–44

The effect of daily consumption of coconut fat and soya–bean fat on plasma lipids and lipoproteins of young normolipidaemic men. Mendis S, et al. **Br J Nutr** 1990 May; 63(3):547–52

Changes in serum cholinesterase (EC 3.1.1.8) activity in rats consuming a high–fat diet. Osada J, et al. **Br J Nutr** 1989 Sep;62(2):343–8

Minor difference in postprandial responses of men between starch and sugar when replacing fat in a normal meal. Van Amelsvoort JM, et al. **Br J Nutr** 1990 Jan;63(1):37–51

Controversies and children's diets. Barness LA. **Bull N Y Acad Med** 1989 Dec;65(10):1089–91; discussion 1154–60

Susceptibility of RDM4 lymphoma cells to LAK–mediated lysis is decreased in tumor bearers fed fish oil high fat regimen. el Ayachi N, et al. **Cancer Lett** 1990 Mar; 49(3):217–24

Hepatic nuclear envelope cytochrome P–450 in rats fed 2–acetylaminofluorene. Effect of dietary fats and butylated hydroxytoluene. Carubelli R, et al. **Cancer Lett** 1989 Sep 15;47(1–2):83–9

Analysis of dietary fat, calories, body weight, and the development of mammary tumors in rats and mice: a review. Freedman LS, et al. **Cancer Res** 1990 Sep 15; 50(18):5710–9 (115 ref.)

A case–control study of diet and benign proliferative epithelial disorders of the breast. Rohan TE, et al. **Cancer Res** 1990 Jun 1;50(11):3176–81

Interactive effects of dietary wheat bran and lard on N–methyl–N'–nitro–N–nitrosoguanidine–induced colon carcinogenesis in rats. Sinkeldam EJ, et al. **Cancer Res** 1990 Feb 15;50(4):1092–6

Studies on methylmalonic acid in humans. I. Concentrations in serum and urinary excretion in normal subjects after feeding and during fasting, and after loading with protein, fat, sugar, isoleucine, and valine. Rasmussen K. **Clin Chem** 1989 Dec;35(12):2271–6

A factorial study of fat and fibre changes and sodium restriction on blood pressure of human hypertensive subjects. Sciarrone SE, et al. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):197–201

Comparative efficacy of dietary treatments on renal function in rats with sub–total nephrectomy: renal polyunsaturated fatty acid incorporation and prostaglandin excretion. Clark WF, et al. **Clin Nephrol** 1990 Jan;33(1):25–34

High dietary fat feeding during perinatal development of rats alters hepatic drug metabolism of progeny. Karnik HB, et al. **Dev Pharmacol Ther** 1989;14(2):135–40

Therapeutic impact of eicosanoids in atherosclerotic disease. Willis AL, et al. **Eicosanoids** 1989;2(2):69–99 (348 ref.)

Toward a dietary prevention of cancer. Freudenheim JL, et al. **Epidemiol Rev** 1989;11:229–35 (108 ref.)

Differential effects of n–3 fatty acids on the regression of atherosclerosis in coronary arteries and the aorta of the pig. Sassen LM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:173–8

The effect of a combination low sodium, low fat, high fibre diet on serum lipids in treated hypertensive patients. Little P, et al. **Eur J Clin Nutr** 1990 Apr;44(4):293–300

Intra and inter–person sources of variability in fat intake in a feeding trial of 14 men. Hebert JR, et al. **Eur J Epidemiol** 1990 Mar;6(1):55–60

Rapid acceleration of atherosclerosis in hypertensive rats on high fat diet. Koletsky S, et al. **Exp Mol Pathol** 1968 Dec; 9(3):322–38

Maternal and fetal plasma lipids in alloxan diabetic and nondiabetic rabbits fed a peanut oil–cholesterol diet. Sisson JA, et al. **Exp Mol Pathol** 1968 Oct;9(2):197–205

Plasmodium yoelii: comparative antimalarial activities of dietary fish oils and fish oil concentrates in vitamin E–deficient mice. Levander OA, et al. **Exp Parasitol** 1990 Apr;70(3):323–9

Dietary therapy of steatorrhea. Marotta RB, et al. **Gastroenterol Clin North Am** 1989 Sep;18(3):485–512 (140 ref.)

Effect of ingested carbohydrate, fat, and protein on the release of somatostatin–28 in humans. Ensinck JW, et al. **Gastroenterology** 1990 Mar;98(3):633–8

Serum apolipoprotein A–IV levels and dietary fat [letter; comment] Mogadam M. **Gastroenterology** 1990 Jul; 99(1):286 Comment on: Gastroenterology 1990 Jan;98(1):17–24.

Sensitivity of serum apolipoprotein A–IV levels to changes in dietary fat content [see comments] Weinberg RB, et al. **Gastroenterology** 1990 Jan;98(1):17–24 Comment in: Gastroenterology 1990 Jul;99(1):286.

Dietary treatment of chylous ascites in yellow nail syndrome. Tan WC. **Gut** 1989 Nov;30(11):1622–3

Changes in the acinar activity patterns of phosphoenolpyruvate carboxykinase in livers of male and female rats upon feeding a high protein and a high fat diet. Wimmer M, et al. **Histochemistry** 1990;93(3):257–62

Changes in feeding efficiency and carcass composition in rats on repeated high–fat feedings. Uhley VE, et al. **Int J Obes** 1989;13(6):849–56

Alterations in plasma lipid levels resulting from tofu and cheese consumption in adult women. Meredith L, et al. **J Am Coll Nutr** 1989 Dec;8(6):573–9

Serum cholesterol, fat intake, and breakfast consumption in the United States adult population. Stanton JL Jr, et al. **J Am Coll Nutr** 1989 Dec;8(6):567–72

The effects of variations in carbohydrate, protein, and fat content of the diet upon weight loss, blood values, and nutrient intake of adult obese women. Alford BB, et al. **J Am Diet Assoc** 1990 Apr;90(4):534–40

Diet intervention methods to reduce fat intake: nutrient and food group composition of self–selected low–fat diets. Buzzard IM, et al. **J Am Diet Assoc** 1990 Jan;90(1):42–50, 53

Lipid management clinic: dietary intervention for patients with hypercholesterolemia. Chima CS, et al. **J Am Diet Assoc** 1990 Feb;90(2):272–4

Reduced serum cholesterol with dietary change using fat–modified and oat bran supplemented diets. Demark–Wahnefried W, et al. **J Am Diet Assoc** 1990 Feb; 90(2):223–9

Promoting low–fat foods in the supermarket using various methods, including videocassettes. Dougherty MF, et al. **J Am Diet Assoc** 1990 Aug;90(8):1106–8

Effect of fat content and chocolate flavoring of milk on meal consumption and acceptability by schoolchildren. Garey JG, et al. **J Am Diet Assoc** 1990 May;90(5):719–21

Changes in food patterns during a low–fat dietary intervention in women. Gorbach SL, et al. **J Am Diet Assoc** 1990 Jun;90(6):802–9

Patterns of dietary behavior associated with selecting diets low in fat: reliability and validity of a behavioral approach to dietary assessment. Kristal AR, et al. **J Am Diet Assoc** 1990 Feb;90(2):214–20

A low–fat diet decreases high density lipoprotein (HDL) cholesterol levels by decreasing HDL apolipoprotein transport rates. Brinton EA, et al. **J Clin Invest** 1990 Jan; 85(1):144–51

Ciprofloxacin pharmacokinetics after a standard or high–fat/high–calcium breakfast. Frost RW, et al. **J Clin Pharmacol** 1989 Oct;29(10):953–5

Effect of dietary unsaturated fatty acids in various forms on the de novo synthesis of fatty acids in the bovine mammary gland. Banks W, et al. **J Dairy Res** 1990 May;57(2):179–85

Effects of glucose ingestion on postprandial lipemia and triglyceride clearance in humans. Cohen JC, et al. **J Lipid Res** 1990 Apr;31(4):597–602

Interactions of saturated, n–6 and n–3 polyunsaturated fatty acids to modulate arachidonic acid metabolism. Garg ML, et al. **J Lipid Res** 1990 Feb;31(2):271–7

High carbohydrate fat–free diet modulates epitope expression of LDL–apoB–100 and interaction of LDL with human fibroblasts. Keidar S, et al. **J Lipid Res** 1989 Sep; 30(9):1131–9

Synthetic low and high fat diets for the study of atherosclerosis in the mouse. Nishina PM, et al. **J Lipid Res** 1990 May;31(5):859–69

Differential effects of dietary fat on the tissue–specific expression of the apolipoprotein A–I gene: relationship to plasma concentration of high density lipoproteins. Sorci–Thomas M, et al. **J Lipid Res** 1989 Sep; 30(9):1397–403

Dietary fat reduction and plasma estradiol concentration in healthy postmenopausal women. The Women's Health Trial Study Group. Prentice R, et al. **J Natl Cancer Inst** 1990 Jan 17;82(2):129–34

Intestinal absorption of stearic acid after consumption of high fat meals in humans. Bonanome A, et al. **J Nutr** 1989 Nov; 119(11):1556–60

Relationship between dietary fat, adipocyte membrane composition and insulin binding in the rat. Field CJ, et al. **J Nutr** 1989 Oct;119(10):1483–9 (37 ref.)

High fat feeding increases brown fat GDP binding in lean but not obese Zucker rats. Gong TW, et al. **J Nutr** 1990 Jul;120(7):786–92

Contribution of several amino acids and lactate to gluconeogenesis in hepatocytes isolated from rats fed various diets. Kaloyianni M, et al. **J Nutr** 1990 Jan; 120(1):116–22

Calcium and magnesium utilization in rats: effect of dietary butterfat and calcium and of age. Kaup SM, et al. **J Nutr** 1990 Mar;120(3):266–73

Effect of gender on the response to a high fat diet in aging Fischer 344 rats. McDonald RB, et al. **J Nutr** 1989 Oct; 119(10):1472–7

Postprandial changes in the plasma concentration of alpha– and gamma–tocopherol in human subjects fed a fat–rich meal supplemented with fat–soluble vitamins. Meydani M, et al. **J Nutr** 1989 Sep;119(9):1252–8

Modification of rat platelet fatty acid composition by dietary lipids of animal and vegetable origin. Piché LA, et al. **J Nutr** 1990 May;120(5):444–9

Cardiolipin molecular species in rat heart mitochondria are sensitive to essential fatty acid–deficient dietary lipids. Yamaoka S, et al. **J Nutr** 1990 May;120(5):415–21

Metabolic and clinical consequences of changing from high–glucose to high–fat regimens in parenterally fed newborn infants. Chessex P, et al. **J Pediatr** 1989 Dec; 115(6):992–7

Modified fat diets: do they apply to infancy? Finberg L. **J Pediatr** 1990 Aug;117(2 Pt 2):S132–3

Saturated fatty acids in vegetable oils. Council on Scientific Affairs. **JAMA** 1990 Feb 2;263(5):693–5

The influence of diet on the appearance of new lesions in human coronary arteries. Blankenhorn DH, et al. **JAMA** 1990 Mar 23–30;263(12):1646–52

Gallbladder contraction and type of fat [letter] Sarles H. **Lancet** 1989 Dec 9;2(8676):1399

Effect of low saturated fat diet in early and late cases of multiple sclerosis. Swank RL, et al. **Lancet** 1990 Jul 7; 336(8706):37–9

Development of cholesterol homeostatic memory in the rat is influenced by maternal diets. Brown SA, et al. **Metabolism** 1990 May;39(5):468–73

A high carbohydrate–fat free diet alters the proportion of heparin–bound VLDL in plasma and the expression of VLDL–apoB–100 epitopes. Keidar S, et al. **Metabolism** 1990 Mar;39(3):281–8

Dietary fat modifies the in vivo mutagenicity of some food–borne carcinogens. Brennan–Craddock WE, et al. **Mutat Res** 1990 May;230(1):49–54

Reduction of plasma cholesterol levels in normal men on an American Heart Association Step 1 diet or a Step 1 diet with added monounsaturated fat. Ginsberg HN, et al. **N Engl J Med** 1990 Mar 1;322(9):574–9

Estradiol binding to plasma proteins after changing to a low–fat diet. Ingram D, et al. **Nutr Cancer** 1989; 12(4):327–32

Patterns of milk consumption and risk of cancer. Mettlin CJ, et al. **Nutr Cancer** 1990;13(1–2):89–99

The influence of dietary levels of vitamin A and fat on colon cancer. Newberne PM, et al. **Nutr Cancer** 1990;13(4):235–42

Effects of high dietary fat on the total DNA and receptor contents in rats with 7,12–dimethylbenz[a]anthracene–induced mammary carcinoma. Kumaki T, et al. **Oncology** 1990;47(4):352–8

NCI's transition plan for participants in women's health trial [news] **Oncology (Williston Park)** 1988 Dec;2(12):36

Lipid aspiration pneumonia due to gastroesophageal reflux. A complication of nasogastric lipid feedings. Wolfson BJ, et al. **Pediatr Radiol** 1989;19(8):545–7

Quality–protein maize as the sole source of dietary protein and fat for rapidly growing young children. Graham GG, et al. **Pediatrics** 1990 Jan;85(1):85–91

High–fat meals increase the clearance of cyclosporine. Gupta SK, et al. **Pharm Res** 1990 Jan;7(1):46–8

Dietary hyperphagia in rats: role of fat, carbohydrate, and energy content. Ramirez I, et al. **Physiol Behav** 1990 Jun; 47(6):1157–63

Sham–feeding of corn oil by rats: sensory and postingestive factors. Reed DR, et al. **Physiol Behav** 1990 Apr; 47(4):779–81

Effect of a high–fat diet on firing rate of sympathetic nerves innervating brown adipose tissue in anesthetized rats. Sakaguchi T, et al. **Physiol Behav** 1989 Jun;45(6):1177–82

Effects of essential fatty acids deficiency in milk diets on the development of germ–free and conventional rats. Stěpánková R, et al. **Physiol Bohemoslov** 1990;39(2):135–46

The influence of mestranol and chlormadinone given separately or in combination on the effects evoked by a high–fat diet in female rabbits. Jaworska M, et al. **Pol J Pharmacol Pharm** 1989 Mar–Apr;41(2):157–67

Lowering cholesterol naturally. Nash DT. **Postgrad Med** 1990 Feb 1;87(2):63–5, 68 (10 ref.)

Feasibility of a randomized trial of a low–fat diet for the prevention of breast cancer: dietary compliance in the Women's Health Trial Vanguard Study. Henderson MM, et al. **Prev Med** 1990 Mar;19(2):115–33

Dietary manipulation of mammary tumor development in adult C3H/Bi mice. Shao RP, et al. **Proc Soc Exp Biol Med** 1990 Apr;193(4):313–7

Advisability (or lack of it) of lipid lowering diets for the elderly. Albrink MJ. **Prog Clin Biol Res** 1990;326:109–28 (41 ref.)

The feasibility of testing experimentally the dietary fat–breast cancer hypothesis. Boyd NF, et al. **Prog Clin Biol Res** 1990; 346:231–41 (32 ref.)

Current status: evaluation of dietary fat reduction as secondary breast cancer prevention. The Nutrition Adjuvant Study. Chlebowski RT, et al. **Prog Clin Biol Res** 1990;339:201–9

Feasibility and importance of clinical trials of a low fat diet to reduce cancer risk. Prentice RL, et al. **Prog Clin Biol Res** 1990;346:205–15 (14 ref.)

Changes in plasma lipids and dietary intake accompanying shifts in perceived workload and stress. McCann BS, et al. **Psychosom Med** 1990 Jan–Feb;52(1):97–108

Getting to the heart of the cholesterol debate [news] Palca J. **Science** 1990 Mar 9;247(4947):1170–1

Dietary treatment of hypercholesterolemia. Friedman BJ, et al. **Tex Med** 1990 Apr;86(4):31–7 (11 ref.)

The effect of the American Heart Association step one diet on hyperlipidemia following renal transplantation. Moore RA, et al. **Transplantation** 1990 Jan;49(1):60–2

The role of diet history and biologic assays in the study of "diet and breast cancer". Gerber M, et al. **Tumori** 1990 Aug 31;76(4):321–30

[The heart society's cholesterol campaign (letter)] **Ugeskr Laeger** 1989 Nov 6;151(45):2991–4 **(Dan)**

[What is the real advantage of reducing cholesterol? (letter)] Kristensen BO, et al. **Ugeskr Laeger** 1989 Oct 23; 151(43):2821–3 **(Dan)**

[Determinants of fat consumption in a general population] De Craene I, et al. **Arch Belg** 1989;47(1–4):98–100 (Eng. Abstr.) **(Dut)**

[Selected data from childhood epilepsies. ACTH treatment and ketogenic diet: a critical evaluation] Renier WO, et

al. **Tijdschr Kindergeneeskd** 1989 Jun;57(3):81–6 (Eng. Abstr.) **(Dut)**

[Effect of various calorie substrates on protein homeostasis] Schauder P. **Infusionstherapie** 1989 Aug;16 Suppl 1:34–5 (10 ref.) **(Ger)**

[Changes in uric acid and blood lipids in patients with asymptomatic hyperuricemia treated with diet therapy in a rehabilitation procedure] Kullich W, et al. **Rehabilitation (Stuttg)** 1989 Aug;28(3):134–7 (Eng. Abstr.) **(Ger)**

[Studies on stroke-prone spontaneously hypertensive rats (SHRSP) fed a high-fat and high-cholesterol diet—changes in serum concentrations and distributions of apolipoproteins A-I, A-IV and E] Ogawa H, et al. **Nippon Eiseigaku Zasshi** 1989 Jun;44(2):622–30 (Eng. Abstr.) **(Jpn)**

[Studies on stroke-prone spontaneously hypertensive rats (SHRSP) fed a high-fat and high-cholesterol diet—effect of taurine on serum lipoprotein metabolism in hypercholesterolemic rats] Ogawa H, et al. **Nippon Eiseigaku Zasshi** 1989 Jun;44(2):648–58 (Eng. Abstr.) **(Jpn)**

[Fat consumption and health (letter)] Johansson L. **Tidsskr Nor Laegeforen** 1989 Oct 30;109(30):3135–6 **(Nor)**

[Fat consumption and health. A statistical warning (letter)] Waaler HT. **Tidsskr Nor Laegeforen** 1989 Sep 10; 109(25):2592 **(Nor)**

[Current recommendations concerning rational use of fats. II. Value of polyunsaturated fatty acids from the n–6 and n–3 groups and general recommendations] Okolska G, et al. **Rocz Panstw Zakl Hig** 1989;40(3):178–87 (Eng. Abstr.) **(Pol)**

[Recommendations concerning the rational consumption of fats. I. Population and clinical studies on the role of monounsaturated fatty acids] Okolska G, et al. **Rocz Panstw Zakl Hig** 1989;40(2):89–99 (Eng. Abstr.) **(Pol)**

[Nutritive value of fats in 3 basic meals of university students] Przysławski J, et al. **Rocz Panstw Zakl Hig** 1989;40(2):100–6 (Eng. Abstr.) **(Pol)**

[Effect of replacement of air nitrogen by inert gases on oxygen consumption by the liver tissues in albino rats on various fatty diets] Berezovskiĭ VA, et al. **Fiziol Zh** 1989 Sep–Oct;35(5):75–8 (Eng. Abstr.) **(Rus)**

[Use of fats in early enteral feeding] Bondarenko VA, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):61–4 (Eng. Abstr.) **(Rus)**

[The significance of an increased protein and fat content in the food ration of rats for the development of stable alloxan diabetes] Ul'ianov AM, et al. **Probl Endokrinol (Mosk)** 1989 Nov–Dec;35(6):78–81 (Eng. Abstr.) **(Rus)**

[The effect of contrasting fat diets on the cholesterol-esterifying activity of the blood plasma] Akhmetov BS, et al. **Vopr Pitan** 1990 Jan–Feb;(1):49–52 (Eng. Abstr.) **(Rus)**

[Dietetic effects on the prostanoid system in cardiovascular diseases] Markov KhM. **Vopr Pitan** 1989 Jul–Aug;(4):4–12 (93 ref.) **(Rus)**

[The influence on tumor growth and the function of the thiol-dependent systems of the liver of excess cooking fat and vitamin E in the diet. The effects of carminomycin] Tazhibaev ShS, et al. **Vopr Pitan** 1990 May–Jun;(3):47–51 (Eng. Abstr.) **(Rus)**

[Dietary recommendations and hypercholesteremia in children] Sarría Chueca A. **An Esp Pediatr** 1990 Feb; 32(2):95–8 (35 ref.) **(Spa)**

ADVERSE EFFECTS

Dietary fat and cancer. Joossens JV. **Acta Cardiol** 1989; 44(6):457–9

Dietary fat and health: the epidemiological evidence. Kesteloot H. **Acta Cardiol** 1989;44(6):446–8

Fatty acids and inflammatory responses—is there a connection? Björkstén B. **Acta Paediatr Scand Suppl** 1989; 351:76–9 (14 ref.)

Quantitative changes in dietary fat intake and serum cholesterol in women: results from a randomized, controlled trial. Boyd NF, et al. **Am J Clin Nutr** 1990 Sep; 52(3):470–6

Influences of dietary fat on alcoholic fatty liver. Jones DP, et al. **Am J Clin Nutr** 1966 May;18(5):350–7

Reversal of the arrhythmogenic effects of long-term saturated fatty acid intake by dietary n–3 and n–6 polyunsaturated fatty acids. McLennan PL, et al. **Am J Clin Nutr** 1990 Jan;51(1):53–8

Not all dietary fats may lead to obesity [letter; comment] Storlien LH. **Am J Clin Nutr** 1990 Jun;51(6):1114–5 Comment on: Am J Clin Nutr 1989 Aug;50(2):307–14.

Re: "The effect of dietary cholesterol and fat on the risk of lung cancer in Hawaii" [letter; comment] Shekelle RB. **Am J Epidemiol** 1990 Mar;131(3):575–7 Comment on: Am J Epidemiol 1988 Dec;128(6):1241–55.

Effects of different levels of dietary fat on methyl-nitrosourea-induced mammary carcinogenesis in correlation with parameters of fat metabolism in female Sprague-Dawley rats. Aksoy M, et al. **Arch Geschwulstforsch** 1990;60(2):109–15

Dietary lipids and thrombosis. Relationships to atherosclerosis. Nordøy A, et al. **Arteriosclerosis** 1990 Mar–Apr;10(2):149–63 (185 ref.)

Absence of coronary or aortic atherosclerosis in rats having dietary lipid modified vulnerability to cardiac arrhythmias. Turner J, et al. **Atherosclerosis** 1990 May;82(1–2):105–12

Dietary fibre and fats in health and disease. Sali A. **Aust Fam Physician** 1990 Mar;19(3):315–7, 320–2, 325–32 (51 ref.)

Stimulation of growth of human breast cancer cell lines in culture by linoleic acid [published erratum appears in Biochem Biophys Res Commun 1989 Dec 29;165(3):1443] Rose DP, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):277–83

The rationale for controlling dietary lipids in the prevention of coronary heart disease. Segal DL. **Bull Pan Am Health Organ** 1990;24(2):197–209 (23 ref.)

The cholesterol facts. A summary of the evidence relating dietary fats, serum cholesterol, and coronary heart disease. A joint statement by the American Heart Association and the National Heart, Lung, and Blood Institute. The Task Force on Cholesterol Issues, American Heart Association. LaRosa JC, et al. **Circulation** 1990 May;81(5):1721–33 (54 ref.)

Endothelial lesions, dietary composition and lipid peroxidation. Stam H, et al. **Eicosanoids** 1989;2(1):1–14 (132 ref.)

Mackerel oil and atherosclerosis in pigs. Sassen LM, et al. **Eur Heart J** 1989 Sep;10(9):838–46

Vitamin A supplements, fried foods, fat and urothelial cancer. A case-referent study in Stockholm in 1985–87. Steineck G, et al. **Int J Cancer** 1990 Jun 15;45(6):1006–11

Dietary fat and the risk of breast cancer. Van't Veer P, et al. **Int J Epidemiol** 1990 Mar;19(1):12–8

Prevention of coronary heart disease: some results from the Oslo secondary and primary intervention studies. Leren P. **J Am Coll Nutr** 1989 Oct;8(5):407–10

On matters of the heart: past, present, and future. Neville JN. **J Am Diet Assoc** 1990 Feb;90(2):211–3 (17 ref.)

Tumors in female offspring of control and diethylstilbestrol-exposed mice fed high-fat diets. Walker BE. **J Natl Cancer Inst** 1990 Jan 3;82(1):50–4

The dietary fat–breast cancer hypothesis: is it really alive? [letter; comment] **JAMA** 1990 Jan 12;263(2):237–8 Comment on: JAMA 1989 Jun 9;261(22):3284–7.

Dietary fat, hypertension, atherosclerosis. International symposium, Bonn, November 15, 1989. Proceedings. **Klin Wochenschr** 1990;68 Suppl 20:1–67

Dietary fat, hypertension, atherosclerosis. Düsing R, et al. **Klin Wochenschr** 1990;68 Suppl 20:1–3 (15 ref.)

Health in Hungary [letter; comment] **Lancet** 1990 Jul 7; 336(8706):56 Comment on: Lancet 1990 Feb 24;335(8687):458–60.

Dietary change and coronary heart disease. Walsh GP. **Med Hypotheses** 1990 Feb;31(2):135–9 (42 ref.)

Dietary factors and non-Hodgkin's lymphoma: a case-control study in the northeastern part of Italy. Franceschi S, et al. **Nutr Cancer** 1989;12(4):333–41

The influence of dietary fat on carcinogenesis: lessons from experimental models. Birt DF. **Nutr Rev** 1990 Jan;48(1):1–5 (30 ref.)

Dietary fat and tumor metastasis. Erickson KL, et al. **Nutr Rev** 1990 Jan;48(1):6–14 (49 ref.)

Diet and coronary heart disease. Kloer HU. **Postgrad Med J** 1989;65 Suppl 1:S13–21 (106 ref.)

Types of dietary fat and the incidence of cancer at five sites. Hursting SD, et al. **Prev Med** 1990 May;19(3):242–53

Diet and coronary heart disease risk factors in a population with varied intake. The Research Group ATS-RF2 of The Italian National Research Council. Trevisan M, et al. **Prev Med** 1990 May;19(3):231–41

Quantitative assessment of fat and calorie as risk factors in mammary carcinogenesis in an experimental model. Ip C. **Prog Clin Biol Res** 1990;346:107–17

Lipids and progressive renal injury. Schmitz PG, et al. **Semin Nephrol** 1989 Dec;9(4):354–69 (144 ref.)

Fats and cancer. Khoo DE, et al. **West Engl Med J** 1990 Mar;105(1):18–9 (37 ref.)

[Dietary lipids and experimental colonic carcinogenesis. Critical review of the literature] Wilpart M. **Acta Gastroenterol Belg** 1989 Jul–Oct;51(4–5):357–64 (25 ref.) (Eng. Abstr.) **(Fre)**

[Fat intolerance, pressure in the right upper quadrant, hepatomegaly (clinical conference)] Müllhaupt B, et al. **Schweiz Rundsch Med Prax** 1990 May 15;79(20):639–42 (Eng. Abstr.) **(Ger)**

[Epidemiology and etiopathogenesis of colorectal cancer. The role of an western diet] Amato A, et al. **Chir Patol Sper** 1988 Apr;36(2):69–77 (18 ref.) (Eng. Abstr.) **(Ita)**

[A hyperlipidic diet and acute pancreatitis: experimental study in rats] Gonçalez Y, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Sep–Oct; 44(5):232–6 (Eng. Abstr.) **(Por)**

[Nutrition characteristics and the incidence of dyslipoproteinemia and ischemic heart disease among the population of the Buryat ASSR] Nikitin IuP, et al. **Kardiologiia** 1989 Sep;29(9):34–8 (Eng. Abstr.) **(Rus)**

ANALYSIS

Lower ratio of n–3 to n–6 fatty acids in cultured than in wild fish. van Vliet T, et al. **Am J Clin Nutr** 1990 Jan; 51(1):1–2

Physical-chemical behavior of dietary and biliary lipids during intestinal digestion and absorption. 2. Phase analysis and aggregation states of luminal lipids during duodenal fat digestion in healthy adult human beings. Hernell O, et al. **Biochemistry** 1990 Feb 27;29(8):2041–56

Physical-chemical behavior of dietary and biliary lipids during intestinal digestion and absorption. 1. Phase behavior and aggregation states of model lipid systems patterned after aqueous duodenal contents of healthy adult human beings. Staggers JE, et al. **Biochemistry** 1990 Feb 27;29(8):2028–40

Food safety and health effects of canola oil. Dupont J, et al. **J Am Coll Nutr** 1989 Oct;8(5):360–75 (151 ref.)

Cholesterol-saturated fat index: ESHA software has it, new egg data changes it [letter; comment] **J Am Diet Assoc** 1990 Apr;90(4):506, 512 Comment on: J Am Diet Assoc 1989 Jun;89(6):807–16.

Alternative methods for infrared analysis of fat in milk: interlaboratory study. Biggs DA, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct;72(5):724–34

Determination of copper, iron, and nickel in oils and fats by direct graphite furnace atomic absorption spectrometry: summary of collaborative study. Capar SG. **J Assoc Off Anal Chem** 1990 Mar–Apr;73(2):320–1

Combination of total solids determined by oven drying and fat determined by Mojonnier extraction for measurement of solids–not–fat content of raw milk: collaborative study. Clark JL, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct; 72(5):719–24

Linoleic acid hydroperoxide concentration in relation to mutagenicity of repeatedly used deep-frying fats. Hageman G, et al. **Lipids** 1989 Oct;24(10):899–902

Chicken fat doesn't migrate [letter] Dieleman L, et al. **N Engl J Med** 1990 Sep 13;323(11):759

Ice cream butterfat content by volume as a possible predictor of taste preference. Pick DF, et al. **Percept Mot Skills** 1990 Apr;70(2):639–42

[Qualitative and quantitative assessment of lipid consumption in the intake of a community] Paccalin J, et al. **Bull Acad Natl Med** 1990 Feb;174(2):239–52; discussion 252–4 (Eng. Abstr.) **(Fre)**

DEFICIENCY

Increased liver lipase activity in rats with essential fatty acid deficiency. Schoonderwoerd K, et al. **Lipids** 1989 Dec; 24(12):1039–42

METABOLISM

Influence of dietary fat intake during infancy upon serum lipids and lipoproteins. Andersen GE. **Acta Paediatr Scand Suppl** 1989;351:72–5 (24 ref.)

Digestion of human milk fat in early infancy. Hernell O, et al. **Acta Paediatr Scand Suppl** 1989;351:57–62 (10 ref.)

Disappearance of long-chain fatty acids in the hindgut of dairy cows. Møller PD. **Acta Vet Scand Suppl** 1989; 86:222–4

Influence of fat and feed level on fiber digestibility in vitro and in sacco and on volatile fatty acid proportions in the rumen. Weisbjerg MR, et al. **Acta Vet Scand Suppl** 1989; 86:137–9

Effects of shellfish consumption on lipoproteins in normolipidemic men. Childs MT, et al. **Am J Clin Nutr** 1990 Jun;51(6):1020–7

The effect of cholestyramine on fecal excretion of ingested radioiodinated lipids. Danhof IE. **Am J Clin Nutr** 1966 May;18(5):343–9

Are the n–3 fatty acids from dietary fish oil deposited in the triglyceride stores of adipose tissue? Lin DS, et al. **Am J Clin Nutr** 1990 Apr;51(4):535–9

Digestibility of cocoa butter and corn oil in human subjects: a preliminary study. Mitchell DC, et al. **Am J Clin Nutr** 1989 Nov;50(5):983–6

Ingestion of different types of fat in the evening meal does not affect metabolic responses to a standard breakfast. Traianedes K, et al. **Am J Clin Nutr** 1990 Sep;52(3):442–5

Boys from populations with high-carbohydrate intake have higher fasting triglyceride levels than boys from populations with high-fat intake. West CE, et al. **Am J Epidemiol** 1990 Feb;131(2):271–82

Combined single day 14C-triolein breath test and PABA test in the diagnosis of malabsorption. Fleming SC, et al. **Ann Clin Biochem** 1990 Jan;27 (Pt 1):50–5

Lack of effect of purified cellulose and hemicellulose on the digestion and the intestinal absorption of dietary lipids in the rat. Borel P, et al. **Ann Nutr Metab** 1989;33(5):237–45

Dietary-induced changes in lipid and fatty acid composition can modify chronaxie values in the rat sciatic nerve. Tarozzi G, et al. **Ann Nutr Metab** 1989;33(2):108–13 (19 ref.)

Effect of misoprostol on fat malabsorption in cystic fibrosis [letter; comment] Littlewood JM, et al. **Arch Dis Child** 1989 Jul;64(7):1096–7 Comment on: Arch Dis Child 1988 Sep;63(9):1081–2.

Possibility of fat addition in the rabbit diets. Abdelhamid AM. **Arch Tierernahr** 1989 Aug–Sep;39(8–9):729–39

Apoprotein E biosynthesis in the cholesterol-fed guinea pig. Driscoll DM, et al. **Arteriosclerosis** 1990 Jan–Feb; 10(1):31–9

Prednisone increases low density lipoprotein in cynomolgus monkeys fed saturated fat and cholesterol. Ettinger WH, et al. **Arteriosclerosis** 1989 Nov–Dec;9(6):848–55

Effect of dietary fat saturation and cholesterol on LDL composition and metabolism. In vivo studies of receptor and nonreceptor-mediated catabolism of LDL in cebus monkeys. Nicolosi RJ, et al. **Arteriosclerosis** 1990 Jan–Feb;

10(1):119–28
Effects of cigarette smoking and dietary lipids on rat lipoprotein metabolism. Maida V, et al. **Atherosclerosis** 1990 Jan;80(3):209–16
Effects of total fat content and fatty acid composition in diet on factor VII coagulant activity and blood lipids. Marckmann P, et al. **Atherosclerosis** 1990 Jan;80(3):227–33
5-series peptido-leukotriene synthesis in mouse peritoneal macrophages: modulation by dietary n-3 fatty acids. Chapkin RS, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):764–9
Effect of dietary oils on the production of n-3 and n-6 metabolites of leukocyte 5-lipoxygenase in five rat strains. Cleland LG, et al. **Biochim Biophys Acta** 1990 Apr 17; 1043(3):253–8
Ajoene prevents fat digestion by human gastric lipase in vitro. Gargouri Y, et al. **Biochim Biophys Acta** 1989 Nov 6; 1006(1):137–9
Dietary fat modifies some metabolic actions of human recombinant tumour necrosis factor alpha in rats. Bibby DC, et al. **Br J Nutr** 1990 May;63(3):653–68
Nutritional effects of autoxidized fats in animal diets. Performance of young pigs on diets containing meat meals of high peroxide value. L'Estrange JL, et al. **Br J Nutr** 1967;21(2):377–90
Trans-fatty acids and essential fatty acid metabolism in rats [letter; comment] Neale RJ, et al. **Br J Nutr** 1990 Mar; 63(2):403–5 Comment on: Br J Nutr 1989 May;61(3):519–29.
The effect of the amount and type of dietary fat on milk fat secretion in the cow. Storry JE, et al. **Br J Nutr** 1967; 21(2):425–38
Influence of the sex-linked dwarfing gene (dw) on the contribution of dietary lipid to yolk lipid synthesis. Burghelle-Mayeur C, et al. **Br Poult Sci** 1990 Mar; 31(1):197–206
Influence of age, chemical composition and rate of inclusion on the apparent metabolisable energy of fats fed to broiler chicks. Wiseman J, et al. **Br Poult Sci** 1989 Sep;30(3):653–62
Lipid diet and enterocyte microsomal membrane fluidity in rats. Chautan M, et al. **Chem Phys Lipids** 1990 Apr; 54(1):25–32
Discrepancy between estimated energy intake and requirement in female dancers. Dahlström M, et al. **Clin Physiol** 1990 Jan;10(1):11–25
Fat absorption in premature infants: the effect of lard and antibiotics. Verkade HJ, et al. **Eur J Pediatr** 1989 Nov; 149(2):126–9
Diet and metabolic development. Little MT, et al. **FASEB J** 1990 Jun;4(9):2605–11 (62 ref.)
Fat intestinal absorption in the catfish—a histochemical study in glycol methacrylate embedded tissue. Hernández-Blazquez FJ, et al. **Gegenbaurs Morphol Jahrb** 1989;135(6):941–6
Lipid related consequences of intestinal malabsorption. Thompson GR. **Gut** 1989 Nov;30 Spec No:29–34 (23 ref.)
Sensitization of hepatic lipocytes by high-fat diet to stimulatory effects of Kupffer cell-derived factors: implication in alcoholic liver fibrogenesis. Matsuoka M, et al. **Hepatology** 1990 Feb;11(2):173–82
Influence of dietary fat on fecal mutagenicity in premenopausal women. Nair PP, et al. **Int J Cancer** 1990 Sep 15;46(3):374–7
Normal serum response to oral beta-carotene in humans. Henderson CT, et al. **J Am Coll Nutr** 1989 Dec;8(6):625–35
Supplemental fat source affects feedlot performance and carcass traits of finishing yearling steers and estimated diet net energy value. Brandt RT Jr, et al. **J Anim Sci** 1990 Aug;68(8):2208–16
The effects of ruminal escape protein or fat on nutritional status of pregnant winter-grazing beef cows. Miner JL, et al. **J Anim Sci** 1990 Jun;68(6):1743–50
The effects of ruminal escape protein or fat on ruminal characteristics of pregnant winter-grazing beef cows. Miner JL, et al. **J Anim Sci** 1989 Oct;67(10):2782–91
Survival and postweaning performance of pigs from sows fed fat during late gestation and lactation. Seerley RW. **J Anim Sci** 1989 Aug;67(8):1889–94
Ruminal ciliated protozoa in cattle fed finishing diets with or without supplemental fat. Towne G, et al. **J Anim Sci** 1990 Jul;68(7):2150–5
Effect of a high-carbohydrate, low-saturated-fat diet on apolipoprotein B and triglyceride metabolism in Pima Indians. Abbott WG, et al. **J Clin Invest** 1990 Aug; 86(2):642–50
Dietary fat and ruminally protected amino acids for high producing dairy cows. Canale CJ, et al. **J Dairy Sci** 1990 Jan;73(1):135–41
Calcium salts of fatty acids in diets that differ in neutral detergent fiber: effect on lactation performance and nutrient digestibility. Canale CJ, et al. **J Dairy Sci** 1990 Apr;73(4):1031–8
Model to describe and alleviate milk protein depression in early lactation dairy cows fed a high fat diet. Casper DP, et al. **J Dairy Sci** 1989 Dec;72(12):3327–35
Effect of dietary fat in isocaloric rations on the nitrogen content of milk from Holstein cows. DePeters EJ, et al. **J Dairy Sci** 1989 Nov;72(11):2949–57
Milk fatty acid composition and plasma energy metabolite concentrations in lactating cows fed medium-chain triglycerides. Grummer RR, et al. **J Dairy Sci** 1989 Aug; 72(8):1996–2001
Effect of hydrogenated fat on feed intake, nutrient digestion, and lactation performance of dairy cows. Jenkins TC, et al. **J Dairy Sci** 1989 Sep;72(9):2316–24
Aspen Hepatic Cholesterol and Lipoprotein Conference 1989. Report of a conference. Grundy SM, et al. **J Lipid Res** 1990 Jul;31(7):1327–33
Effects of dietary n-3 fatty acids on the phospholipid molecular species of monkey brain. Lin DS, et al. **J Neurochem** 1990 Oct;55(4):1200–7
Vitamin E deficiency in acquired fat malabsorption. Yokota T, et al. **J Neurol** 1990 Apr;237(2):103–6
A comparison of the digestion and absorption of cocoa butter and palm kernel oil and their effects on cholesterol absorption in rats. Chen IS, et al. **J Nutr** 1989 Nov; 119(11):1569–73
Interrelated effects of dietary fiber and fat on lymphatic cholesterol and triglyceride absorption in rats. Ikeda I, et al. **J Nutr** 1989 Oct;119(10):1383–7
Alteration of the lipid composition of rat testicular plasma membranes by dietary (n-3) fatty acids changes the responsiveness of Leydig cells and testosterone synthesis. Sebokova E, et al. **J Nutr** 1990 Jun;120(6):610–8
Protein and energy relationships in the diet of the American alligator (Alligator mississippiensis). Staton MA, et al. **J Nutr** 1990 Jul;120(7):775–85
Essential fatty acid nutrition of the American alligator (Alligator mississippiensis). Staton MA, et al. **J Nutr** 1990 Jul;120(7):674–85
Active bile salt transport in the ileum: characteristics and ontogeny. Acra SA, et al. **J Pediatr Gastroenterol Nutr** 1990 May;10(4):421–5 (55 ref.)
Resting energy expenditure in women: impact of obesity and body-fat distribution. Weststrate JA, et al. **Metabolism** 1990 Jan;39(1):11–7
Nutritive utilization of protein and digestive utilization of fat in two commercial diets designed for clinical enteral nutrition. Alférez MJ, et al. **Nahrung** 1990;34(6):499–507
Aging and dietary fat and cholesterol transport. **Nutr Rev** 1989 Oct;47(10):334–6
Failure to maintain weight loss: permissive role of lipoprotein lipase. **Nutr Rev** 1989 Oct;47(10):328–30
Effects of lighting program during the growing period and dietary fat during the laying period on broiler breeder performance. Brake J, et al. **Poult Sci** 1989 Sep; 68(9):1185–92
Effect of diet and substrate on the in vitro measurement of cholesterol and fatty-acid synthesis in hepatic tissue of Japanese quail. Hood RL. **Poult Sci** 1990 Apr;69(4):647–51
Effect of ratio of unsaturated to saturated fatty acids of the dietary lipid fraction on utilization and metabolizable energy of added fats in young chicks. Ketels E, et al. **Poult Sci** 1989 Nov;68(11):1506–12
The utilization of calcium soaps from animal fat by laying hens. Rising R, et al. **Poult Sci** 1990 May;69(5):768–73
Effect of dietary lipid on lutein metabolism during aflatoxicosis in young broiler chickens. Schaeffer JL, et al. **Poult Sci** 1990 Jan;69(1):53–9
Interrelationship between metabolism of lipids and glucose. Palicka W, et al. **Przegl Lek** 1989;46(7):611–4 (**Eng, Pol**)
Fat absorption and exocrine pancreatic function in human immunodeficiency virus infection. Kapembwa MS, et al. **Q J Med** 1990 Jan;74(273):49–56
Jejunal mucosal architecture and fat absorption in male homosexuals infected with human immunodeficiency virus. Miller AR, et al. **Q J Med** 1988 Dec;69(260):1009–19
Assessment of fat absorption in normal dogs and in dogs with hyperadrenocorticalism. Simpson JW, et al. **Res Vet Sci** 1990 Jan;48(1):38–41
The long-acting somatostatin analogue SMS 201-995 causes malabsorption. Witt K, et al. **Scand J Gastroenterol** 1989 Dec;24(10):1248–52
Dietary factors in mammalian toxicity of chemicals. Iyaniwura TT. **Vet Hum Toxicol** 1990 Apr;32(2):106–10
Specific effect of the amount of dietary fat on esterase-1 (ES-1) activity of rat plasma. Van Lith HA, et al. **Z Ernahrungswiss** 1990 Jun;29(2):129–34
[The effect of energy-rich and energy-reduced rations with n-alkane yeast portions on the fatty acid composition of selected organ lipids in swine] Doberschütz KD, et al. **Nahrung** 1990;34(5):475–82 (Eng. Abstr.) **(Ger)**
[Progress report. Lipid peroxidation. 2. Secondary reactions] Mörsel JT, et al. **Nahrung** 1990;34(1):13–27 (62 ref.) (Eng. Abstr.) **(Ger)**
[The influence of extrinsic pancreatic nerves on pancreatic enzyme response to intestinal stimuli: a short review] Singer MV, et al. **Z Gastroenterol** 1989 Dec;27 Suppl 3:5–9 (27 ref.) **(Ger)**
[Effect of dietary fats and cholesterol on lipoprotein metabolism] Cybulska B, et al. **Przegl Lek** 1989;46(7):615–8 **(Pol)**
[Radionuclide study of fat absorption in the small intestine] Khubiev AI, et al. **Med Radiol (Mosk)** 1989 Sep;34(9):12–4 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Icosanoid synthesis as a functional measurement of essential fatty acid requirement. Dupont J, et al. **J Am Coll Nutr** 1990 Jun;9(3):272–6 (19 ref.)
Intestinal fat absorption and its relevance in lipid drug delivery systems. Eldem T, et al. **Pharmazie** 1989 Jul; 44(7):444–7 (51 ref.)
[Radionuclide study of the absorption of nutrients] Ginzburg VS, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):17–20 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Dietary and genetic effects on plasma lipid concentrations. Assmann G. **Acta Cardiol** 1989;44(6):463–4
Dietary fat and blood pressure. Pietinen P. **Acta Cardiol** 1989; 44(6):460–2
High-fat feeding induces tissue-specific alteration in proportion of activated insulin receptors in rats. Nagy K, et al. **Acta Endocrinol (Copenh)** 1990 Mar;122(3):361–8
Studies on membrane lipid peroxidation in omega-3 fatty acid-fed autoimmune mice: effect of vitamin E supplementation. Laganiere S, et al. **Adv Exp Med Biol** 1990;262:95–102
Influence of dietary lipids on serum apoproteins AI and B and on intestinal synthesis of apo AI in the early weaning of piglets: comparison of saturated, unsaturated, and medium-chain triglycerides. Ansart MC, et al. **Am J Clin Nutr** 1990 Jan;51(1):47–52
Dose-response effects of fish-oil supplementation in healthy volunteers. Blonk MC, et al. **Am J Clin Nutr** 1990 Jul; 52(1):120–7
Effect of a vegetable oil formula rich in linoleic acid on tissue fatty acid accretion in the brain, liver, plasma, and erythrocytes of infant piglets. Hrboticky N, et al. **Am J Clin Nutr** 1990 Feb;51(2):173–82
Dietary n-3 polyunsaturated fatty acids and amelioration of cardiovascular disease: possible mechanisms. Kinsella JE, et al. **Am J Clin Nutr** 1990 Jul;52(1):1–28 (418 ref.)
Comparison of the effect of canola oil and sunflower oil on plasma lipids and lipoproteins and on in vivo thromboxane A2 and prostacyclin production in healthy young men. McDonald BE, et al. **Am J Clin Nutr** 1989 Dec; 50(6):1382–8
Changes in dietary lipid saturation modify fatty acid composition and high-density-lipoprotein binding of adipocyte plasma membrane. Zsigmond E, et al. **Am J Clin Nutr** 1990 Jul;52(1):110–9
Weight gain and brown fat composition of mice selected for high body weight fed a high-fat diet. Desautels M, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):R608–15
Differential regulation of mRNAs encoding for rat intestinal alkaline phosphatase. Eliakim R, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G93–8
n-3 fatty acids increase postischemic blood flow but do not reduce myocardial necrosis. Force T, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1204–10
Interleukin-1, anorexia, and dietary fatty acids. Dinarello CA, et al. **Ann N Y Acad Sci** 1990;587:332–8 (11 ref.)
Dietary cholesterol and fats at a young age: do they influence cholesterol metabolism in adult life? Temmerman AM, et al. **Ann Nutr Metab** 1989;33(3):170–80
Essential fatty acids and polyunsaturated fatty acids: significance in cutaneous biology. Ziboh VA, et al. **Annu Rev Nutr** 1990;10:433–50 (67 ref.)
Invisible fats: sensory assessment of sugar/fat mixtures. Drewnowski A, et al. **Appetite** 1990 Jun;14(3):203–17
Diet composition alters the acceptance of fat by rats. Reed DR, et al. **Appetite** 1990 Jun;14(3):219–30
Plasma platelet factor 4 response in rhesus monkeys fed coconut oil. Podbielski FJ, et al. **Appl Pathol** 1989; 7(4):241–8
Relationship between sensitivity to dietary fat and dietary cholesterol. Clifton PM, et al. **Arteriosclerosis** 1990 May-Jun;10(3):394–401
Postprandial lipemia and lipoprotein lipase in the rabbit are modified by olive and coconut oil. Van Heek M, et al. **Arteriosclerosis** 1990 May-Jun;10(3):421–9
Newly recognized anticarcinogenic fatty acids. Pariza MW, et al. **Basic Life Sci** 1990;52:167–70 (9 ref.)
Anticlastogenic dietary factors assessed in mammalian assays. Renner HW. **Basic Life Sci** 1990;52:35–43 (24 ref.)
Expression of rat pancreatic lipase gene is modulated by a lipid-rich diet at a transcriptional level. Wicker C, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):358–64
Effects of dietary fish oil supplementation on membrane fluidity and enzyme activity in rat small intestine. Stenson WF, et al. **Biochem J** 1989 Oct 1;263(1):41–5
Diets rich in n-9, n-6 and n-3 fatty acids differentially affect the generation of inositol phosphates and of thromboxane by stimulated platelets, in the rabbit. Medini L, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):129–33
Changes in lipid composition and desaturase activities of duodenal mucosa induced by dietary fat. Girón MD, et al. **Biochim Biophys Acta** 1990 Jun 28;1045(1):69–73
Effect of phosphatidylethanolamine and its constituent base on the metabolism of linoleic acid in rat liver. Imaizumi K, et al. **Biochim Biophys Acta** 1989 Oct 17;1005(3):253–9
The effects of feeding a saturated fat-rich diet on enzymes of cholesterol metabolism in the liver, intestine and aorta of the hamster. Jackson B, et al. **Biochim Biophys Acta** 1990 Jun 28;1045(1):21–8
Incorporation and effects of dietary eicosapentaenoate (20:5(n-3)) on plasma and erythrocyte lipids of the marmoset following dietary supplementation with differing levels of linoleic acid. McMurchie EJ, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):164–73
Dietary protein and fatty acid composition of liver lipids in the rat. Sjöblom L, et al. **Biochim Biophys Acta** 1990 May 22;1044(2):187–92
Effects of dietary fats on the fluidity of human high-density

lipoprotein: influence of the overall composition and phospholipid fatty acids. Sola R, et al. **Biochim Biophys Acta** 1990 Mar 12;1043(1):43–51

Dietary saturated or polyunsaturated fat and copper deficiency in the rat. Lynch SM, et al. **Biol Trace Elem Res** 1989 Nov;22(2):131–9

Effects of phytate reduction, fat extraction, and level of Ca on Ca and Zn bioavailability. Compared in vitro and in vivo. Schwartz R, et al. **Biol Trace Elem Res** 1989 Jan–Feb; 19(1–2):93–106

Effect of dietary fat content on the bioavailability of a sustained release quinidine gluconate tablet. Martinez MN, et al. **Biopharm Drug Dispos** 1990 Jan–Feb;11(1):17–29

Effects of low-fat diets on gastric stress-induced ulcers after barbiturate administration in rats. Seri S, et al. **Boll Soc Ital Biol Sper** 1989 Oct;65(10):997–1002

Effects of the 5-HT3 receptor antagonist ICS 205-930 on fat-delayed gastric emptying and antral motor activity. Stacher G, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):41–8

Beta-carotene supplementation of turkey diets varying in fat and retinol. Stevens VI, et al. **Br Poult Sci** 1989 Dec; 30(4):877–87

Effect of fatty acid composition of dietary fat on energy balance and expenditure in hamsters. Jones PJ. **Can J Physiol Pharmacol** 1989 Sep;67(9):994–8

Critical period programming of intestinal glucose transport via alterations in dietary fatty acid composition. Keelan M, et al. **Can J Physiol Pharmacol** 1990 May;68(5):642–5 (33 ref.)

Effect of a calcium-enriched diet on the colonic epithelial hyperproliferation induced by N-methyl-N'-nitro-N-nitrosoguanidine in rats on a low calcium and fat diet. Reshef R, et al. **Cancer Res** 1990 Mar 15;50(6):1764–7

Influence of the type of dietary fat on developmental growth of the mammary gland in immature and mature female BALB/c mice. Welsch CW, et al. **Cancer Res** 1989 Nov 1;49(21):5999–6007

Dietary fatty acid composition modulates the metastatic behaviour of a murine mammary gland adenocarcinoma. Eynard AR, et al. **Cell Biol Int Rep** 1989 Sep;13(9):813–4

Natural killer cell activity in a longitudinal dietary fat intervention trial. Hebert JR, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):103–16

Influence of a high-fat meal on the absorption of morphine from oral solutions. Gourlay GK, et al. **Clin Pharmacol Ther** 1989 Oct;46(4):463–8

Effect of dietary protein and fat content on tri-iodothyronine-induced thermogenesis in young chicks (Gallus domesticus). Jong HB, et al. **Comp Biochem Physiol [A]** 1990;95(3):429–33

Dietary lipids, eicosanoids, and the immune system. Kinsella JE, et al. **Crit Care Med** 1990 Feb;18(2 Suppl):S94–113 (124 ref.)

Dietary immunomodulation: beneficial effects on oncogenesis and tumor growth. Lowell JA, et al. **Crit Care Med** 1990 Feb;18(2 Suppl):S145–8 (41 ref.)

Fish oil-enriched diet and reduction of low-dose streptozocin-induced hyperglycemia. Inhibition of macrophage activation. Linn T, et al. **Diabetes** 1989 Nov; 38(11):1402–11

Effect of omega-3 fatty acids in diet of type I diabetic subjects on lipid values and hemorheological parameters. Rillaerts EG, et al. **Diabetes** 1989 Nov;38(11):1412–6

Effects of a high-fat diet and L364,718 on growth of human pancreas cancer. Smith JP, et al. **Dig Dis Sci** 1990 Jun; 35(6):726–32

Influence of hyperlipidic food on the kinetics of slow-release formulations of theophylline. Brazier JL, et al. **Eur J Clin Pharmacol** 1989;37(1):85–90

A diet high in fat stimulates adipocyte proliferation in older (22 month) rats. Ellis JR, et al. **Exp Gerontol** 1990; 25(2):141–8

Effects of dietary lipids on recovery from mucosal injury. Vanderhoof JA, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1226–31

Effect of ingestion of fat on ileostomy effluent. Higham SE, et al. **Gut** 1990 Apr;31(4):435–8

Effect of dietary fat on the small intestinal mucosa. Maxton DG, et al. **Gut** 1989 Sep;30(9):1252–5

Effect of prefeeding lipid on food intake and satiety in man. Sepple CP, et al. **Gut** 1990 Feb;31(2):158–61

Effects of a high lipidic diet on murine energetic reserves in food deprivation. Cartañà J, et al. **Horm Metab Res** 1989 Nov;21(11):606–11

Blood pressure in spontaneously hypertensive rats fed butterfat, corn oil, or fish oil. Karanja N, et al. **Hypertension** 1989 Dec;14(6):674–9

Dietary linoleic acid prevents the development of deoxycorticosterone acetate-salt hypertension. Kawahara J, et al. **Hypertension** 1990 Feb;15(2 Suppl):I81–7

Interleukin-1 and tumor necrosis factor synthesis by mouse peritoneal macrophages is enhanced by dietary n-3 polyunsaturated fatty acids. Lokesh BR, et al. **Immunol Lett** 1990 Feb;23(4):281–5

Effects of ingestion of thermally oxidized edible oils on plasma lipids, lipoproteins and postheparin lipolytic activity of rats. Jethmalani SM, et al. **Indian J Exp Biol** 1989 Dec; 27(12):1052–5

The effect of dietary fat content and composition on adipocyte lipids in normal and diabetic states. Field CJ, et al. **Int J Obes** 1989;13(6):747–56

Specific alterations in different adipose tissues of pig adipocyte plasma membrane structure by dietary lipids. Nicolas C, et al. **Int J Obes** 1990;14(6):537–49

Liver cholesterol concentrations in mice fed diets containing various sources of fat, carbohydrates or fiber. Beynen AC, et al. **Int J Vitam Nutr Res** 1989;59(4):401–5

Hypotriglyceridemic effect of dietary linseed oil in rats. Herman S, et al. **Int J Vitam Nutr Res** 1989;59(4):417–8

Relationship of dietary fat to plasma fatty acids, blood pressure, and urinary eicosanoids in adult men. Judd JT, et al. **J Am Coll Nutr** 1989 Oct;8(5):386–99

Activation of branched-chain alpha-keto acid dehydrogenase complex by exercise: effect of high-fat diet intake. Shimomura Y, et al. **J Appl Physiol** 1990 Jan; 68(1):161–5

Diet fat composition alters membrane phospholipid composition, insulin binding, and glucose metabolism in adipocytes from control and diabetic animals. Field CJ, et al. **J Biol Chem** 1990 Jul 5;265(19):11143–50

cis-acting determinants of basal and lipid-regulated apolipoprotein A-IV expression in mice. Williams SC, et al. **J Biol Chem** 1989 Nov 15;264(32):19009–16

Seasonal effects of prepartum and postpartum fat and niacin feeding on lactation performance and lipid metabolism. Skaar TC, et al. **J Dairy Sci** 1989 Aug;72(8):2028–38

The effect of sucrose and fat in cookies on salivation and oral retention in humans. Brudevold F, et al. **J Dent Res** 1990 Jun;69(6):1278–82

Dietary linoleate supplementation modulates formyl-peptide receptor expression and functional responses of rat neutrophils. Gyllenhammar H, et al. **J Lab Clin Med** 1990 Apr;115(4):487–96

Metabolic response of Acylation Stimulating Protein to an oral fat load. Cianflone K, et al. **J Lipid Res** 1989 Nov; 30(11):1727–33

Postprandial levels of prolactin and gut hormones in breast cancer patients: association with stage of disease, but not dietary fat [see comments] Goettler DM, et al. **J Natl Cancer Inst** 1990 Jan 3;82(1):22–9 Comment in: J Natl Cancer Inst 1990 Jul 4;82(13):1155–7.

Effect of dietary fat composition on rat colon plasma membranes and fecal lipids. Awad AB, et al. **J Nutr** 1989 Oct;119(10):1376–82 (36 ref.)

Effect of dietary fat, starch and cellulose on fecal bile acids in mice. Bianchini F, et al. **J Nutr** 1989 Nov; 119(11):1617–24

Influence of the sex-linked dwarfing gene (dw) on the lipid composition of plasma, egg yolk and abdominal fat pad in White Leghorn laying hens: effect of dietary fat. Burghelle-Mayeur C, et al. **J Nutr** 1989 Oct;119(10):1361–8 (42 ref.)

Manganese, iron and lipid interactions in rats. Davis CD, et al. **J Nutr** 1990 May;120(5):507–13

Effect of various triglycerides on plasma cholecystokinin levels in rats. Douglas BR, et al. **J Nutr** 1990 Jul; 120(7):686–90

Lack of an influence of dietary fat on murine natural killer cell activity. Erickson KL, et al. **J Nutr** 1989 Sep; 119(9):1311–7

Effect of dietary fat content and composition during pregnancy on fetal hepatic HMG CoA reductase activities and lipids in rats. Haave NC, et al. **J Nutr** 1990 Jun; 120(6):539–43

Effects of litter size and diet composition on the development of some lipogenic enzymes in the liver and brown adipose tissue of the rat. Kostolansky IT, et al. **J Nutr** 1989 Nov; 119(11):1709–15

The interrelated effects of n-6/n-3 and polyunsaturated/saturated ratios of dietary fats on the regulation of lipid metabolism in rats. Lee JH, et al. **J Nutr** 1989 Dec;119(12):1893–9

Influence of dietary carbohydrate-to-fat ratio on whole body nitrogen retention and body composition in adult rats. McCargar LJ, et al. **J Nutr** 1989 Sep;119(9):1240–5

Effects of dietary fatty acid composition on macronutrient selection and synaptosomal fatty acid composition in rats. McGee CD, et al. **J Nutr** 1989 Nov;119(11):1561–8

Effect of dietary olive oil, corn oil and medium-chain triglycerides on the lipid composition of rat red blood cell membranes. Periago JL, et al. **J Nutr** 1990 Sep; 120(9):986–94

Effects of medium-chain triglycerides on brush border membrane-bound enzyme activity in rat small intestine. Takase S, et al. **J Nutr** 1990 Sep;120(9):969–76

Milk fat depression in C57Bl/6J mice consuming partially hydrogenated fat. Teter BB, et al. **J Nutr** 1990 Aug; 120(8):818–24

Potency of polyunsaturated and saturated fats as short-term inhibitors of hepatic lipogenesis in rats. Wilson MD, et al. **J Nutr** 1990 Jun;120(6):544–52

Nutritive utilization of calcium in rats: effects of dietary fat components and vitamin D3 on intestinal resected rats. Campos MS, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Oct; 35(5):511–21

Hypocholesterolemic human milk [published erratum appears in J Pediatr Gastroenterol Nutr 1990 Jul;11(1):144] Jensen RG, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan; 10(1):148–50

The effect of dietary sterol on the activity of fatty acid desaturases isolated from Tetrahymena setosa. Koll M, et al. **J Protozool** 1990 May–Jun;37(3):229–37

Effects of formula composition on hepatic and intestinal drug metabolism during enteral nutrition. Knodell RG. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):34–8

The effect of high lipid diet on in vitro prostaglandin E2 and thromboxane B2 production by splenic macrophages. Ogle CK, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun;14(3):250–4

Role of dietary lipids and renal eicosanoids on the progression of renal disease. Klahr S, et al. **Kidney Int Suppl** 1989 Nov; 27:S27–31 (58 ref.)

Dietary fat and blood pressure in humans. Iacono JM, et al. **Klin Wochenschr** 1990;68 Suppl 20:23–32 (37 ref.)

Does a high P/S ratio diet lower blood pressure? Margetts BM. **Klin Wochenschr** 1990;68 Suppl 20:11–5 (31 ref.)

Tumor necrosis factor-alpha-associated uterine endothelial injury in vivo. Influence of dietary fat. Shalaby MR, et al. **Lab Invest** 1989 Nov;61(5):564–70

Saturation of fat and cholecystokinin release: implications for pancreatic carcinogenesis [see comments] Beardshall K, et al. **Lancet** 1989 Oct 28;2(8670):1008–10 Comment in: Lancet 1989 Dec 2;2(8675):1338.

Effects of exercise and fat ingestion on high density lipoprotein production by peripheral tissues. Ruys T, et al. **Lancet** 1989 Nov 11;2(8672):1119–22

Saturation of fat and cholecystokinin release [letter; comment] Thompson GR. **Lancet** 1989 Dec 2;2(8675):1338 Comment on: Lancet 1989 Oct 28;2(8670):1008–10.

Effect of dietary fat on the lipid composition and utilization of short-chain fatty acids by rat colonocytes. Awad AB, et al. **Lipids** 1990 Jun;25(6):316–20

Effects of dietary fats on fatty acid composition and delta 5 desaturase in normal and diabetic rats. Dang AQ, et al. **Lipids** 1989 Oct;24(10):882–9

Effect of dietary fat on phospholipid class distribution and fatty acid composition in rat fat cell plasma membrane. Khuu Thi-Dinh KL, et al. **Lipids** 1990 May;25(5):278–83

Lipid peroxidation in rat tissue slices: effect of dietary vitamin E, corn oil-lard and menhaden oil. Leibovitz BE, et al. **Lipids** 1990 Mar;25(3):125–9

Feeding pure docosahexaenoate or arachidonate decreases plasma triacylglycerol secretion in rats. Williams MA, et al. **Lipids** 1989 Sep;24(9):753–8

Effect of a hyperlipidic diet on lipid composition, fluidity, and (Na+-K+)ATPase activity of rat erythrocyte membranes. Bordoni A, et al. **Membr Biochem** 1989; 8(1):11–8

Dietary fat-mediated changes in hepatic apoprotein B/E receptor in the guinea pig: effect of polyunsaturated, monounsaturated, and saturated fat. Fernandez ML, et al. **Metabolism** 1989 Nov;38(11):1094–102

Effects of partial replacement of dietary fat by olestra on dietary cholesterol absorption in man. Jandacek RJ, et al. **Metabolism** 1990 Aug;39(8):848–52

A potent in vivo effect of ciglitazone on muscle insulin resistance induced by high fat feeding of rats. Kraegen EW, et al. **Metabolism** 1989 Nov;38(11):1089–93

Dietary fish oils limit adipose tissue hypertrophy in rats. Parrish CC, et al. **Metabolism** 1990 Mar;39(3):217–9

Plasma cortisol concentration following breakfasts of different composition in healthy subjects. Zancanaro C, et al. **Minerva Endocrinol** 1989 Jul–Sep;14(3):143–6

Effect on plasma cholesterol of a Step 1 diet with or without increased monounsaturated fats [letter] **N Engl J Med** 1990 Jul 26;323(4):273–5

Dietary saturated fatty acids and low-density or high-density lipoprotein cholesterol [letter; comment] **N Engl J Med** 1990 Feb 8;322(6):402–4 Comment on: N Engl J Med 1989 Aug 17;321(7):436–41.

Trans monounsaturated fatty acids and serum cholesterol levels [editorial; comment] Grundy SM. **N Engl J Med** 1990 Aug 16;323(7):480–1 Comment on: N Engl J Med 1990 Aug 16;323(7):439–45.

Partial normalization by dietary cod-liver oil of increased microvascular albumin leakage in patients with insulin-dependent diabetes and albuminuria. Jensen T, et al. **N Engl J Med** 1989 Dec 7;321(23):1572–7

Effect of dietary trans fatty acids on high-density and low-density lipoprotein cholesterol levels in healthy subjects [see comments] Mensink RP, et al. **N Engl J Med** 1990 Aug 16;323(7):439–45 Comment in: N Engl J Med 1990 Aug 16;323(7):480–1.

Changes in intestinal function of rats initiated with DMH and fed varying levels of butterfat, calcium, and magnesium. Behling AR, et al. **Nutr Cancer** 1990; 13(3):189–99

Effect of dietary lipids on hepatic and intestinal monooxygenases in mice. Caderni G, et al. **Nutr Cancer** 1990;13(1–2):111–7

Effects of dietary fat and protein on DMH-induced tumor development and immune responses. Nutter RL, et al. **Nutr Cancer** 1990;13(3):141–52

Dietary fats and blood pressure: a critical review of the evidence. Sacks FM. **Nutr Rev** 1989 Oct;47(10):291–300 (45 ref.)

Structural and functional effects of long-term alcohol administration on the dog exocrine pancreas submitted to two different diets. Devaux MA, et al. **Pancreas** 1990 Mar; 5(2):200–9

Hepatic and intestinal drug-metabolizing enzymes and the tissue distribution and excretion of 14C-7,12-dimethylbenz[a]anthracene in rats fed diets varying in fat concentration. Clinton SK, et al. **Pharmacology** 1989;39(2):89–97

High fat/sucrose feeding attenuates the hypertension of spontaneously hypertensive rats. Contreras RJ, et al. **Physiol Behav** 1989 Aug;46(2):285–91

Modulation of gene expression in autoimmune disease and aging by food restriction and dietary lipids. Fernandes G, et al. **Proc Soc Exp Biol Med** 1990 Jan;193(1):16–22 (66 ref.)

Effect of truncal, selective, and highly selective vagotomy on fat–induced gastric inhibitory polypeptide release. Gayle RG, et al. **Surg Forum** 1978;29:397–9

Effect of total jejunoileal denervation on fat–stimulated release of peptide YY and cholecystokinin. Evers BM, et al. **Surgery** 1990 Aug;108(2):248–52; discussion 252–3

Inhibitory effects of mold oil including gamma–linolenate on platelet thrombus formation in mesenteric microvessels of the rat. Nakahara T, et al. **Thromb Res** 1990 Feb 1; 57(3):371–81

[Effect of high carbohydrate and high fat diets on plasma glucose, insulin and lipids in normal and hypertriglyceridemic subjects] Liu B, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):145–9 (Eng. Abstr.) **(Chi)**

[The role of medium chain triglycerides in pediatric nutrition] Charritat JL, et al. **Ann Pediatr (Paris)** 1989 Nov; 36(9):607–10 **(Fre)**

[Lipids, proteins and carbohydrates stimulate the secretion of intestinal cholecystokinin in the pig] Cuber JC, et al. **Reprod Nutr Dev** 1990;30(2):267–75 (Eng. Abstr.) **(Fre)**

[The effect of qualitatively different fatty components of the diet on mitochondrial membranes in animals with experimental anthracosis] Pichkhadze GM, et al. **Vopr Pitan** 1989 May–Jun;(3):53–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Selective opioid receptor antagonist effects upon intake of a high–fat diet in rats. Islam AK, et al. **Brain Res** 1990 Feb 5;508(2):293–6

Role of cholecystokinin and the cholinergic system in intestinal stimulation of gallbladder contraction in man. Hopman WP, et al. **Hepatology** 1990 Feb;11(2):261–5

Manipulation of the acute inflammatory response by dietary polyunsaturated fatty acid modulation. Lefkowith JB, et al. **J Immunol** 1990 Sep 1;145(5):1523–9

Protein and carbohydrate selection respond to changes in dietary saturated fatty acids but not to changes in essential fatty acids. McGee CD, et al. **Life Sci** 1990;47(1):67–76

STANDARDS

Upper limits of intakes of total fat and polyunsaturated fatty acids in infant formulas. Widdowson EM. **J Nutr** 1989 Dec; 119(12 Suppl):1814–6; discussion 1816–7 (18 ref.)

THERAPEUTIC USE

Effects of a high–linoleate and a high–alpha–linolenate diet on spontaneous mammary tumourigenesis in mice. Kamano K, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1903–8

How much dietary fat in therapeutic nutrition? Simko V. **Bull N Y Acad Med** 1990 Mar–Apr;66(2):164–80 (112 ref.)

Lack of a protective effect of menhaden oil on skin tumor promotion by 12–O–tetradecanoylphorbol–13–acetate. Locniskar M, et al. **Carcinogenesis** 1990 Sep;11(9):1641–5

Effects of dietary linoleic acid on mucosal adaptation after small bowel resection. Park JH, et al. **Digestion** 1989; 44(2):57–65

Dietary fish oil reduces progression of chronic inflammatory lesions in a rat model of granulomatous colitis. Vilaseca J, et al. **Gut** 1990 May;31(5):539–44

Fish oil diet prevents insulitis in transplanted islets of Langerhans. Linn T, et al. **Transplant Proc** 1990 Apr; 22(2):871–2

[Ketogenic diet—an update] Gross–Tsur V, et al. **Harefuah** 1989 Dec 15;117(12):448–9 (19 ref.) **(Heb)**

[An experimental evaluation of the hypoallergenic action of fat constituents for specialized therapeutic products] Marokko IN, et al. **Vopr Pitan** 1990 Mar–Apr;(2):49–53 (Eng. Abstr.) **(Rus)**

TOXICITY

Mutagenicity of deep–frying fat, and evaluation of urine mutagenicity after consumption of fried potatoes. Hageman G, et al. **Food Chem Toxicol** 1990 Feb;28(2):75–80

DIETARY FATS, UNSATURATED

Metabolic and ultrastructural changes in articular cartilage of rats fed dietary supplements of omega–3 fatty acids. Lippiello L, et al. **Arthritis Rheum** 1990 Jul;33(7):1029–36

Fat substitutes. **Med Lett Drugs Ther** 1990 Jun 15;32(820):57

Oily fish and heart disease. Burr M. **Practitioner** 1990 Apr 22;234(1487):398, 401

[A chance for the prevention of atopic diseases] Melnik BC. **Monatsschr Kinderheilkd** 1990 Mar;138(3):162–6 (28 ref.) (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Dietary n–3 fatty acid supplementation reduces superoxide production and chemiluminescence in a monocyte–enriched preparation of leukocytes. Fisher M, et al. **Am J Clin Nutr** 1990 May;51(5):804–8

n–3 fatty acids from vegetable oils. Hunter JE. **Am J Clin Nutr** 1990 May;51(5):809–14

Vitamin E intakes and sources in the United States. Murphy SP, et al. **Am J Clin Nutr** 1990 Aug;52(2):361–7

n–3 fatty acid effects on lipids, lipoproteins, and apolipoproteins at very low doses: results of a randomized controlled trial in hypertriglyceridemic subjects. Radack KL, et al. **Am J Clin Nutr** 1990 Apr;51(4):599–605

High linoleic acid diets ameliorate diabetic nephropathy in rats. Barcelli UO, et al. **Am J Kidney Dis** 1990 Sep; 16(3):244–51

Some possible effects of dietary monounsaturated fatty acids on cardiovascular disease. Elvevoll EO, et al. **Atherosclerosis** 1990 Feb;81(1):71–4

Learning and memory impairment in rats fed a high saturated fat diet. Greenwood CE, et al. **Behav Neural Biol** 1990 Jan;53(1):74–87

Paradoxical effects of essential fatty acid supplementation on lipid profiles and sweat electrolytes in cystic fibrosis. Dodge JA, et al. **Br J Nutr** 1990 Mar;63(2):259–71

Mixed function oxidases in response to different types of dietary lipids in rats. Saito M, et al. **Br J Nutr** 1990 Mar; 63(2):249–57

Dietary fish oils in the prevention and management of cardiovascular and other diseases. Bang HO. **Compr Ther** 1990 May;16(5):31–5 (30 ref.)

An epidemiological and an experimental study on the effect of olive oil on total serum and HDL cholesterol in healthy volunteers. Mensink RP, et al. **Eur J Clin Nutr** 1989;43 Suppl 2:43–8

A 91–day feeding study in rats with heated olestra/vegetable oil blends. Miller KW, et al. **Food Chem Toxicol** 1990 May; 28(5):307–15

Effects of aspirin on gastric mucosal prostaglandin E2 and F2 alpha content and on gastric mucosal injury in humans receiving fish oil or olive oil. Faust TW, et al. **Gastroenterology** 1990 Mar;98(3):586–91

Fatty acid and enzymatic compositional changes in the pancreas of rats fed dietary n–3 and n–6 polyunsaturated fatty acids. Bégin ME, et al. **Int J Pancreatol** 1990 Apr; 6(3):151–60

Determination of the alteration in fatty acid profiles, sensory characteristics and carcass traits of swine fed elevated levels of monounsaturated fats in the diet. Miller MF, et al. **J Anim Sci** 1990 Jun;68(6):1624–31

Fish oil and hypertension [letter] Urakaze M, et al. **J Hum Hypertens** 1989 Aug;3(4):277–8

Dietary effects on brain fatty acid composition: the reversibility of n–3 fatty acid deficiency and turnover of docosahexaenoic acid in the brain, erythrocytes, and plasma of rhesus monkeys. Connor WE, et al. **J Lipid Res** 1990 Feb;31(2):237–47

The effects of dietary alpha–linolenic acid on the composition of nerve membranes, enzymatic activity, amplitude of electrophysiological parameters, resistance to poisons and performance of learning tasks in rats. Bourre JM, et al. **J Nutr** 1989 Dec;119(12):1880–92

Enrichment of (n–3) fatty acids of suckling rats by maternal dietary menhaden oil. Yeh YY, et al. **J Nutr** 1990 May; 120(5):436–43

Fats, oil, health [letter] **JAMA** 1990 Jun 20;263(23):3146–8

Consumption of olive oil, butter, and vegetable oils and coronary heart disease risk factors. The Research Group ATS–RF2 of the Italian National Research Council [published erratum appears in JAMA 1990 Apr;263(13):1768] Trevisan M, et al. **JAMA** 1990 Feb 2; 263(5):688–92

Omega–3 fatty acid dietary supplementation in systemic lupus erythematosus. Clark WF, et al. **Kidney Int** 1989 Oct; 36(4):653–60

Lipids and multiple sclerosis [editorial] **Lancet** 1990 Jul 7; 336(8706):25–6

Nutritional recommendations for n–3 polyunsaturated fatty acids and the challenge to the food industry. Barlow SM, et al. **Proc Nutr Soc** 1990 Feb;49(1):13–21 (18 ref.)

Effects of an elemental diet containing fish oil on neutrophil LTB4 synthesis and membrane lipid composition. Scheurlen M, et al. **Prog Clin Biol Res** 1989;301:505–9

Extreme decrease of linoleic acid in renal medulla from rats after a diet supplemented with cod liver oil. Singer P, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Apr; 39(4):329–35

Relationship between lipid parameters and the occurrence and severity of lesions in the heart: a study on rats fed low erucic acid rapeseed oil. Rocquelin G, et al. **Reprod Nutr Dev** 1989;29(3):293–302

Effect of polyunsaturated fat on regression of atheroma in the non–human primate. Mendelsohn D, et al. **S Afr Med J** 1989 Oct 7;76(7):371–3

Lipid research in Greenland. Preventive and therapeutic consequences. Bang HO. **Scand J Soc Med** 1990;18(1):53–7 (28 ref.)

[Effect on the lipid profile of diet supplemented with fish oil concentrate] Bøhn KA, et al. **Tidsskr Nor Laegeforen** 1990 May 20;110(13):1693–6 (Eng. Abstr.) **(Nor)**

[Individual sensitivity to hypolipidemic factors in ischemic heart disease] Liapkov BG, et al. **Sov Med** 1989;(9):16–8 **(Rus)**

[The effect of contrasting fat diets on the cholesterol–esterifying activity of the blood plasma] Akhmetov BS, et al. **Vopr Pitan** 1990 Jan–Feb;(1):49–52 (Eng. Abstr.) **(Rus)**

[The effect of a diet enriched with food fibers and polyunsaturated fatty acids on the composition of the lipid components in the enterohepatic circulation system in rabbits with cholestasis] Bogdarin IuA, et al. **Vopr Pitan** 1990 Jan–Feb;(1):44–8 (Eng. Abstr.) **(Rus)**

[The vitamin E allowance of rats on different combinations of sunflower and soybean oils in their diets] Seb LM, et al. **Vopr Pitan** 1990 May–Jun;(3):51–4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Increased incidence of epistaxis in adolescents with familial hypercholesterolemia treated with fish oil. Clarke JT, et al. **J Pediatr** 1990 Jan;116(1):139–41

Diet and new lesions of the coronary arteries [letter] **JAMA** 1990 Sep 12;264(10):1251–2

Effect of the quality of dietary fat on tumor growth and metastasis from a rat mammary adenocarcinoma. Katz EB, et al. **Nutr Cancer** 1989;12(4):343–50

METABOLISM

The requirements and utilization of dietary fatty acids in the newborn infant. Hernell O. **Acta Paediatr Scand Suppl** 1990; 365:20–7

Dietary polyunsaturated fatty acids and eicosanoid formation in humans. Fischer S. **Adv Lipid Res** 1989;23:169–98 (138 ref.)

Relative rates of depletion of alpha–tocopherol and linoleic acid after feeding polyunsaturated fats. Harmon EM, et al. **Am J Clin Nutr** 1966 Apr;18(4):243–8

Dietary polyunsaturated fatty acids enhance the uptake of high–density lipoprotein cholesterol ester by rat adipocytes. Zsigmond E, et al. **Am J Clin Nutr** 1990 Aug;52(2):289–99

Intestinal absorption of menhaden and rapeseed oils and their fatty acid methyl and ethyl esters in the rat. Yang LY, et al. **Biochem Cell Biol** 1990 Feb;68(2):480–91

Active vs. passive agents: implications for dietary recommendations [letter; comment] Lands WE. **J Nutr** 1990 Mar;120(3):317–9 Comment on: J Nutr 1989 Apr;119(4):529–33.

Evaluation of vitamin E requirement and food palatability in rabbits fed a purified diet with a high fish oil content. Verschuren PM, et al. **Lab Anim** 1990 Apr;24(2):164–71

Ingestion of high doses of fish oil increases the susceptibility of cellular membranes to the induction of oxidative stress. Garrido A, et al. **Lipids** 1989 Sep;24(9):833–5

Docosahexaenoic acid is the preferred dietary n–3 fatty acid for the development of the brain and retina. Anderson GJ, et al. **Pediatr Res** 1990 Jan;27(1):89–97

The new fat replacements. A strategy for reducing fat consumption. Drewnowski A. **Postgrad Med** 1990 May 1; 87(6):111–4, 117–8, 121 (28 ref.)

This and that: exotic foods—prophylaxis and peril. Max B. **Trends Pharmacol Sci** 1989 Aug;10(8):313–5

PHARMACOLOGY

Modification of experimental and clinical atherosclerosis by dietary fish oil. Zhu BQ, et al. **Am Heart J** 1990 Jan; 119(1):168–78 (86 ref.)

n–3 fatty acids of marine origin lower systolic blood pressure and triglycerides but raise LDL cholesterol compared with n–3 and n–6 fatty acids from plants. Kestin M, et al. **Am J Clin Nutr** 1990 Jun;51(6):1028–34

Reversal of the arrhythmogenic effects of long–term saturated fatty acid intake by dietary n–3 and n–6 polyunsaturated fatty acids. McLennan PL, et al. **Am J Clin Nutr** 1990 Jan;51(1):53–8

Dietary canola oil: effect on the accumulation of eicosapentaenoic acid in the alkenylacyl fraction of human platelet ethanolamine phosphoglyceride. Weaver BJ, et al. **Am J Clin Nutr** 1990 Apr;51(4):594–8

Dietary supplementation with low–dose fish oils lowers fibrinogen levels: a randomized, double–blind controlled study. Radack K, et al. **Ann Intern Med** 1989 Nov 1; 111(9):757–8

Effect of n–3 and n–6 fatty acids on 7,12 dimethylbenz (a) anthracene–induced mammary tumorigenesis. Karmali RA, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1161–7

II. Effect of n–3 and n–6 fatty acids on mammary H–ras expression and PGE2 levels in DMBA–treated rats. Karmali RA, et al. **Anticancer Res** 1989 Jul–Aug; 9(4):1169–74

Effects of dietary fish oil and butterfat on serum lipids and monocyte and platelet interactions with aortic endothelial cells. Foxall TL, et al. **Atherosclerosis** 1990 Jan;80(3):171–9 (55 ref.)

Effect of long–term feeding olive and sunflower oils on fatty acid composition and desaturation activities of liver microsomes. Girón MD, et al. **Biochem Int** 1989 Sep; 19(3):645–56

Effect of dietary fat on the induction of hepatic microsomal cytochrome P450 isozymes by phenobarbital. Kim HJ, et al. **Biochem Pharmacol** 1990 May 1;39(9):1423–30

Effect of increasing amounts of dietary fish oil on brain and liver fatty composition. Bourre JM, et al. **Biochim Biophys Acta** 1990 Apr 2;1043(2):149–52

Hypotriglyceridemic effect of dietary n – 3 fatty acids in rats fed low versus high levels of linoleic acid. Garg ML, et al. **Biochim Biophys Acta** 1989 Nov 6;1006(1):127–30

Dietary saturated or polyunsaturated fat and copper deficiency in the rat. Lynch SM, et al.

Biol Trace Elem Res 1989 Nov;22(2):131–9
Influence of oxidised dietary oil and antioxidant supplementation on membrane–bound lipid stability in broiler meat. Asghar A, et al. **Br Poult Sci** 1989 Dec; 30(4):815–23
Effects of oxidised dietary oil and antioxidant supplementation on broiler growth and meat stability. Lin CF, et al. **Br Poult Sci** 1989 Dec;30(4):855–64
Effects of dietary fat, calcium, and vitamin D on growth and mammary tumorigenesis induced by 7,12–dimethylbenz(a)anthracene in female Sprague–Dawley rats. Jacobson EA, et al. **Cancer Res** 1989 Nov 15;49(22):6300–3
Dietary fish oil accelerates the response to coronary thrombolysis with tissue–type plasminogen activator. Evidence for a modest platelet inhibitory effect in vivo. Braden GA, et al. **Circulation** 1990 Jul;82(1):178–87
Fish oil dietary supplementation reduces Ia expression in rat and mouse peritoneal macrophages. Mosquera J, et al. **Clin Immunol Immunopathol** 1990 Jul;56(1):124–9
The effect of olestra on systemic levels of oral contraceptives. Miller KW, et al. **Clin Pharmacol Ther** 1990 Jul;48(1):34–40
Effect of dietary fish oils on the nature of urinary prostaglandin metabolites in rats. Hornstra G, et al. **Eicosanoids** 1989;2(3):145–9
Protection of the rat myocardium from ischemic injury by dietary lamprey oil. Yanagisawa A, et al. **Eicosanoids** 1988; 1(2):93–100
Influence of polyunsaturated fatty acid diet on the hemorrheological response to physical exercise in hypoxia. Guezennec CY, et al. **Int J Sports Med** 1989 Aug; 10(4):286–91
Nutritive utilization of phosphorus in the rat: influence of intestinal resection and dietary medium chain triglycerides and vitamin D3. Barrionuevo M, et al. **Int J Vitam Nutr Res** 1989;59(3):255–61
Modulation of mouse mammary tumor growth and linoleate enhanced metastasis by oleate. Buckman DK, et al. **J Nutr** 1990 Feb;120(2):148–57
Effect of dietary blackcurrant seed oil on mouse macrophage subclasses of choline and ethanolamine glycerophospholipids. Chapkin RS, et al. **J Nutr** 1990 Aug; 120(8):825–30
Inhibition of triiodothyronine's induction of rat liver lipogenic enzymes by dietary fat. Clarke SD, et al. **J Nutr** 1990 Jun;120(6):625–30
Dietary polyunsaturated fats uniquely suppress rat liver fatty acid synthase and S14 mRNA content. Clarke SD, et al. **J Nutr** 1990 Feb;120(2):225–31
Effect of various triglycerides on plasma cholecystokinin levels in rats. Douglas BR, et al. **J Nutr** 1990 Jul; 120(7):686–90
Effect of dietary lipids and vitamin E on in vitro lipid peroxidation in rat liver and kidney homogenates. Hu ML, et al. **J Nutr** 1989 Nov;119(11):1574–82
Dietary supplementation with oils rich in (n–3) and (n–6) fatty acids influences in vivo levels of epidermal lipoxygenase products in guinea pigs. Miller CC, et al. **J Nutr** 1990 Jan;120(1):36–44
Kinetics of cell–mediated cytotoxicity in mice fed diets of various fat contents. Olson LM, et al. **J Nutr** 1990 Jun; 120(6):619–24
The effect of dietary fatty acids on response to Pseudomonas infection in burned mice. Peck MD, et al. **J Trauma** 1990 Apr;30(4):445–52
The effects of polyunsaturated fat vs monounsaturated fat on plasma lipoproteins. Dreon DM, et al. **JAMA** 1990 May 9;263(18):2462–6
Effects of n–3 fatty acids on renal function and renal prostaglandin E metabolism. Düsing R, et al. **Kidney Int** 1990 Aug;38(2):315–9
Fish, diabetes, and the arterial wall [letter; comment] **Lancet** 1989 Dec 2;2(8675):1332 Comment on: Lancet 1989 Oct 21;2(8669):944–6.
Effects of dietary fish oil on biliary phospholipids and prostaglandin synthesis in the cholesterol–fed prairie dog. Booker ML, et al. **Lipids** 1990 Jan;25(1):27–32
Lability of red blood cell membranes to lipid peroxidation: application to humans fed polyunsaturated lipids. Fraga CG, et al. **Lipids** 1990 Feb;25(2):111–4
Turnover of fatty acyl–CoA oxidase in the liver of rats fed on a partially hydrogenated marine oil. Horie S, et al. **Lipids** 1989 Oct;24(10):890–4
Effect of dietary menhaden oil and vitamin E on in vivo lipid peroxidation induced by iron. Hu ML, et al. **Lipids** 1990 Apr;25(4):194–8
Effect of dietary palm oil and its fractions on rat plasma and high density lipoprotein lipids. Sundram K, et al. **Lipids** 1990 Apr;25(4):187–93
Interactive effects of prenatal ethanol and N–3 fatty acid supplementation on brain development in mice. Wainwright PE, et al. **Lipids** 1989 Dec;24(12):989–97
Do dietary monounsaturated fatty acids play a protective role in carcinogenesis and cardiovascular disease? Cohen LA, et al. **Med Hypotheses** 1990 Feb;31(2):83–9 (51 ref.)
Dietary olive and safflower oils in promotion of DMBA–induced mammary tumorigenesis in rats. Lasekan JB, et al. **Nutr Cancer** 1990;13(3):153–63
Effects of dietary polyunsaturated fatty acid on platelet aggregation in rats. Ding YA, et al. **Proc Natl Sci Counc Repub China [B]** 1989 Apr;13(2):102–8
Stress modulates cholesterol–induced changes in plasma and liver fatty acid composition in rats fed n–6 fatty acid–rich oils. Huang YS, et al. **Proc Soc Exp Biol Med** 1990 Oct; 195(1):136–41
The effect of dietary fish oil supplement upon the content of dihomo–gammalinolenic acid in human plasma phospholipids. Cleland LG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):9–12
Dietary polyenoic fatty acids change the response of cat blood platelets to inductions of aggregation by ADP. Davidson BC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jan; 39(1):31–7
The effect of n–3 fatty acids on lipids and haemostasis in patients with type IIa and type IV hyperlipidaemia. Schmidt EB, et al. **Thromb Haemost** 1989 Sep 29; 62(2):797–801
Dose–response studies on the effect of n–3 polyunsaturated fatty acids on lipids and haemostasis. Schmidt EB, et al. **Thromb Haemost** 1990 Feb 19;63(1):1–5
Influence of dietary fish oils on plasma Lp(a) levels [letter] Gries A, et al. **Thromb Res** 1990 Jun 15;58(6):667–8
[Effects of lamprey oil prepared under different deodorization conditions on serum lipids, reticuloendothelial system and antibody production in mice] Mineo S, et al. **Yakugaku Zasshi** 1990 Jan; 110(1):27–33 (Eng. Abstr.) **(Jpn)**
[Effect of linoleic acid in the diet on arterial pressure, ATPase activity and cyclic nucleotide level in the heart of rats with spontaneous hypertension] Vasil'eva EM, et al. **Vopr Pitan** 1989 May–Jun;(3):41–4 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Dietary fish oil and olive oil supplementation in patients with rheumatoid arthritis. Clinical and immunologic effects. Kremer JM, et al. **Arthritis Rheum** 1990 Jun;33(6):810–20
Absence of coronary or aortic atherosclerosis in rats having dietary lipid modified vulnerability to cardiac arrhythmias. Turner J, et al. **Atherosclerosis** 1990 May;82(1–2):105–12
Effects of fish oil on arteriosclerosis in the Japanese quail. Fann JI, et al. **Cardiovasc Res** 1989 Jul;23(7):631–8
A fish oil diet preserves renal function in nephrotoxic serum nephritis. Scharschmidt L, et al. **J Lab Clin Med** 1990 Apr; 115(4):405–14
Increased incidence of epistaxis in adolescents with familial hypercholesterolemia treated with fish oil. Clarke JT, et al. **J Pediatr** 1990 Jan;116(1):139–41
Malabsorption of thyroxine, calcium, and vitamin D in a thyroparathyroidectomized woman: efficacy of therapy with medium–chain triglyceride oil. Smallridge RC, et al. **Milit Med** 1990 Apr;155(4):156–8
[Significance and motivation of the clinical use of essential fatty acid derivatives, especially gamma–linolenic acid] Bordoni A. **Clin Ter** 1990 Mar 31;132(6):383–92 (45 ref.) (Eng. Abstr.) **(Ita)**

DIETARY FIBER

Dietary fiber, beta–carotene and breast cancer: results from a case–control study. Van 't Veer P, et al. **Int J Cancer** 1990 May 15;45(5):825–8
Effects of dietary neutral detergent fiber concentration and supplementary long hay on chewing activities and milk production of dairy cows. Beauchemin KA, et al. **J Dairy Sci** 1989 Sep;72(9):2288–300
Wheat bran in the selective therapy of absorptive hypercalciuria: a study performed on 18 lithiasic patients. Tizzani A, et al. **J Urol** 1989 Oct;142(4):1018–20
Dietary fiber [letter] **JAMA** 1990 Apr 25;263(16):2179–80
Oat bran and serum cholesterol [letter; comment] **N Engl J Med** 1990 Jun 14;322(24):1746–9 Comment on: N Engl J Med 1990 Jan 18;322(3):147–52.
Technetium–labelled bran to measure solid gastric emptying [letter] Houghton AD, et al. **Nucl Med Commun** 1989 Jul; 10(7):486
The nutritional properties of extruded and non–extruded corn fiber isolate. Artz WE, et al. **Plant Foods Hum Nutr** 1990 Jan;40(1):95–8
Dietary fiber research. Madar Z, et al. **Prog Biochem Pharmacol** 1990;24:III–VIII, 1–137

ADMINISTRATION & DOSAGE

The relationship among adiposity, diet, and hormone concentrations in vegetarian and nonvegetarian postmenopausal women. Barbosa JC, et al. **Am J Clin Nutr** 1990 May;51(5):798–803
Effect of wheat fiber on blood lipids, fecal steroid excretion and serum iron. Jenkins DJ, et al. **Am J Clin Nutr** 1975 Dec;28(12):1408–11
Dietary and hormonal evaluation of men at different risks for prostate cancer: fiber intake, excretion, and composition, with in vitro evidence for an association between steroid hormones and specific fiber components. Ross JK, et al. **Am J Clin Nutr** 1990 Mar;51(3):365–70
Change in plasma acetate levels in diabetic subjects on mixed high fiber diets [see comments] Akanji AO, et al. **Am J Gastroenterol** 1989 Nov;84(11):1365–70 Comment in: Am J Gastroenterol 1989 Nov;84(11):1362–3.
Plasma glucose and insulin, urinary catecholamine and cortisol responses to test breakfasts with high or low fibre content: the importance of the previous diet. Sundell IB, et al. **Ann Nutr Metab** 1989;33(6):333–40
The effect of foods containing refined Konjac meal on human lipid metabolism. Zhang MY, et al. **Biomed Environ Sci** 1990 Mar;3(1):99–105
Management of constipation. 1. High fibre diets work. Taylor R. **BMJ** 1990 Apr 21;300(6731):1063–4
Influence of post–rumen supply of nutrients on rumen digesta load and voluntary intake of a roughage by sheep. Gherardi SG, et al. **Br J Nutr** 1989 Nov;62(3):589–99
The effect of soluble– and insoluble–fibre supplementation on post–prandial glucose tolerance, insulin and gastric inhibitory polypeptide secretion in healthy subjects. Morgan LM, et al. **Br J Nutr** 1990 Jul;64(1):103–10
Intestinal zinc transfer by everted gut sacs from rats given diets containing different amounts and types of dietary fibre. Seal CJ, et al. **Br J Nutr** 1989 Jul;62(1):151–63
Risks associated with source of fiber and fiber components in cancer of the colon and rectum. Freudenheim JL, et al. **Cancer Res** 1990 Jun 1;50(11):3295–300
Effect of dietary cellulose on cell proliferation and progression of 1,2–dimethylhydrazine–induced colon carcinogenesis in rats. Heitman DW, et al. **Cancer Res** 1989 Oct 15;49(20):5581–5
Interactive effects of dietary wheat bran and lard on N–methyl–N'–nitro–N–nitrosoguanidine–induced colon carcinogenesis in rats. Sinkeldam EJ, et al. **Cancer Res** 1990 Feb 15;50(4):1092–6
Systematic modulation by human diet levels of dietary fibre and beef on metabolism and disposition of benzo[a]pyrene in the gastrointestinal tract of Fischer F344 rats. O'Neill IK, et al. **Carcinogenesis** 1990 Apr;11(4):609–16
Modulating effects in human diets of dietary fibre and beef, and of time and dose on the reactive microcapsule trapping of benzo[a]pyrene metabolites in the rat gastrointestinal tract. O'Neill IK, et al. **Carcinogenesis** 1990 Apr; 11(4):599–607
A factorial study of fat and fibre changes and sodium restriction on blood pressure of human hypertensive subjects. Sciarrone SE, et al. **Clin Exp Pharmacol Physiol** 1990 Mar;17(3):197–201
Dietary fiber and health. AMA council on Scientific Affairs. **Conn Med** 1989 Sep;53(9):529–34 (32 ref.)
Dietary fiber and coronary heart disease. Anderson JW, et al. **Crit Rev Food Sci Nutr** 1990;29(2):95–147 (466 ref.)
Ulcerative colitis in remission: it is possible to predict the risk of relapse? Leo S, et al. **Digestion** 1989;44(4):217–21
Toward a dietary prevention of cancer. Freudenheim JL, et al. **Epidemiol Rev** 1989;11:229–35 (108 ref.)
Dietary salt and the glycaemic response to meals of different fibre content. Akanji AO, et al. **Eur J Clin Nutr** 1989 Oct; 43(10):699–703
The effect of a combination low sodium, low fat, high fibre diet on serum lipids in treated hypertensive patients. Little P, et al. **Eur J Clin Nutr** 1990 Apr;44(4):293–300
Nutritional therapy of irritable bowel syndrome. Friedman G. **Gastroenterol Clin North Am** 1989 Sep;18(3):513–24 (35 ref.)
Gentler bowel fitness with fiber. Brown MK, et al. **Geriatr Nurs (New York)** 1990 Jan–Feb;11(1):26–7
Dietary fibre added to very low calorie diet reduces hunger and alleviates constipation. Astrup A, et al. **Int J Obes** 1990;14(2):105–12
Reduced serum cholesterol with dietary change using fat–modified and oat bran supplemented diets. Demark–Wahnefried W, et al. **J Am Diet Assoc** 1990 Feb; 90(2):223–9
Role of dietary fibre on platelet adhesiveness. Khan HS, et al. **J Assoc Physicians India** 1990 Mar;38(3):219–20
Subject–reported compliance in a chemoprevention trial for familial adenomatous polyposis. Berenson M, et al. **J Behav Med** 1989 Jun;12(3):233–47
Effects of fiber source and method of feeding on chewing activities, digestive function, and productivity of dairy cows. Beauchemin KA, et al. **J Dairy Sci** 1990 Mar; 73(3):749–62
Dietary fiber, vegetables, and colon cancer: critical review and meta–analyses of the epidemiologic evidence. Trock B, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):650–61 (71 ref.)
The effects of dietary fiber feeding on cholesterol metabolism in rats. Nishina PM, et al. **J Nutr** 1990 Jul;120(7):800–5
From the National Institutes of Health. Raub W. **JAMA** 1989 Nov 3;262(17):2359
Harry M. Vars award. Glutamine or fiber supplementation of a defined formula diet: impact on bacterial translocation, tissue composition, and response to endotoxin. Barber AE, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):335–43
Addition of dietary fiber to liquid formula diets: the pros and cons. Scheppach W, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):204–9 (63 ref.)
The effect of alfalfa–corn diets on cholesterol metabolism and gallstones in prairie dogs. Cohen BI, et al. **Lipids** 1990 Mar;25(3):143–8
Measurement of the proliferative status of colonic epithelium as a risk marker for colon carcinogenesis: effect of bile acid and dietary fiber. Robblee NM, et al. **Nutr Cancer** 1989;12(4):301–10
Dietary fiber and breast cancer. Rose DP. **Nutr Cancer** 1990; 13(1–2):1–8 (32 ref.)
Fibre sources for the food industry. Johnson IT.

Proc Nutr Soc 1990 Feb;49(1):31–8 (50 ref.)
High fiber diet and colon cancer: a critical review. Trock BJ, et al. Prog Clin Biol Res 1990;346:145–57
Plasma enteroglucagon, gastrin and peptide YY in conventional and germ-free rats refed with a fibre-free or fibre-supplemented diet. Goodlad RA, et al. Q J Exp Physiol 1989 Jul;74(4):437–42
The effect of dietary crude fibre content on the frequency of post partum agalactia in the sow. Göransson L. Zentralbl Veterinarmed [A] 1989 Jul;36(6):474–9
[Investigation of the effect of a diet with wheat bran on the metabolic balances of Zn, Cu, Ca and Mg in diabetics] Liu ZQ, et al. Chung Hua Nei Ko Tsa Chih 1989 Dec; 28(12):741–4, 769 (Eng. Abstr.) (Chi)
[Fiber in the diabetic diet] Peruličová J. Vnitr Lek 1989 Jul; 35(7):710–4 (Eng. Abstr.) (Cze)
[Dietary fiber added to a very-low caloric diet reduces hunger and alleviates constipation] Quaade F, et al. Ugeskr Laeger 1990 Jan 8;152(2):95–8 (Eng. Abstr.) (Dan)
[The role of dietary fiber in gastroenterology: fact or fancy? (letter)] Compaan E, et al. Ned Tijdschr Geneeskd 1989 Dec 2;133(48):2410–1 (Dut)
[Estimation of the daily dietary fiber intake in France] Bagheri SM, et al. Ann Nutr Metab 1990;34(2):69–75 (Eng. Abstr.) (Fre)
[Bulk-forming agents as laxatives in geriatric patients] Meier P, et al. Schweiz Med Wochenschr 1990 Mar 3;120(9):314–7 (Eng. Abstr.) (Ger)
[Dermatomycoses and an antifungal diet] Putzier E. Wien Med Wochenschr 1989 Aug 31;139(15–16):379–80 (Eng. Abstr.) (Ger)
[The use of vegetable fibers in the treatment of pregnancy diabetes and/or excessive wight gain during pregnancy] Cesa F, et al. Minerva Ginecol 1990 Jun;42(6):271–4 (Eng. Abstr.) (Ita)
[Study of the effect of rations containing dietary fiber on the level of total lipids and cholesterol in the blood and liver of the rat during a 6.5-month experiment] Arutiunova MB, et al. Vopr Pitan 1989 Nov–Dec;(6):47–50 (Eng. Abstr.) (Rus)
[The effect of a diet enriched with food fibers and polyunsaturated fatty acids on the composition of the lipid components in the enterohepatic circulation system in rabbits with cholestasis] Bogdarin IuA, et al. Vopr Pitan 1990 Jan–Feb;(1):44–8 (Eng. Abstr.) (Rus)
[Is dietary fiber good for health?] Werkö L. Lakartidningen 1990 Jan 10;87(1–2):14 (Swe)

ADVERSE EFFECTS

Cellulose fiber diet pills. A new cause of esophageal obstruction. Jones KR, et al. Arch Otolaryngol Head Neck Surg 1990 Sep;116(9):1091
Esophageal obstruction caused by Cal-Ban [letter] Morse JM, et al. Gastroenterology 1990 Mar;98(3):805–6
Diet and survival of patients with colon cancer in Utah: is there an association? Slattery ML, et al. Int J Epidemiol 1989 Dec;18(4):792–7
Dentureless distention: oat bran bezoars cause obstruction [letter] Rosario PG, et al. J Am Geriatr Soc 1990 May; 38(5):608
Small-bowel obstruction from bran cereal [letter] Miller DL, et al. JAMA 1990 Feb 9;263(6):813–4
From the Food and Drug Administration. Nightingale SL. JAMA 1990 Oct 10;264(14):1802
The diet pill that worked [letter] Gebhard RL, et al. N Engl J Med 1990 Mar 8;322(10):702
High-fibre problem. Practitioner 1990 Mar 8;234(1484):206

ANALYSIS

Relationship between dietary fiber content and composition in foods and the glycemic index. Wolever TM. Am J Clin Nutr 1990 Jan;51(1):72–5
Diarrhoea during enteral feeding in the critically ill: a comparison of feeds with and without fibre. Dobb GJ, et al. Intensive Care Med 1990;16(4):252–5
Use of 2-ethoxyethanol and alpha-amylase in the neutral detergent fiber method of feed analysis. Cherney DJ, et al. J Dairy Sci 1989 Nov;72(11):3079–84
Isolation and properties of lipolysis inhibitory proteins from wheat germ and wheat bran. Borel P, et al. Plant Foods Hum Nutr 1989 Dec;39(4):339–48
[Determination of the dietary fiber content of some foods using a biological method] Gronowska-Senger A, et al. Rocz Panstw Zakl Hig 1989;40(4–6):291–6 (Eng. Abstr.) (Pol)
[A new type of bread enriches with dietary fibers] Grigorashvili GZ, et al. Vopr Pitan 1989 May–Jun; (3):69–70 (Rus)

CLASSIFICATION

Plant fibers in nutrition: need for better nomenclature [letter] Schaller D. Am J Clin Nutr 1975 Dec;28(12):1347

METABOLISM

Determination of gastrointestinal passage of fluid and fibre in the rabbit using single-dose nonabsorbable markers. Nielsen CA, et al. Acta Vet Scand Suppl 1989;86:55–6
Comparative aspects of fibre fermentation in mammals. Udén P. Acta Vet Scand Suppl 1989;86:35–45
Influence of fat and feed level on fiber digestibility in vitro and in sacco and on volatile fatty acid proportions in the rumen. Weisbjerg MR, et al. Acta Vet Scand Suppl 1989; 86:137–9
Dietary fiber: in vitro methods that anticipate nutrition and metabolic activity in humans. Adiotomre J, et al. Am J Clin Nutr 1990 Jul;52(1):128–34
Low vs high dietary fiber and serum, biliary, and fecal lipids in middle-aged men. Kesäniemi YA, et al. Am J Clin Nutr 1990 Jun;51(6):1007–12
Fiber digestion and voluntary intake in horses after adaptation to extensive large-colon resection. Bertone AL, et al. Am J Vet Res 1989 Sep;50(9):1628–32
Metabolic studies on the hypolipidaemic effect of guar gum. Turner PR, et al. Atherosclerosis 1990 Mar;81(2):145–50
Composition of faeces from human subjects consuming diets based on conventional foods containing different kinds and amounts of dietary fibre. Forsum E, et al. Br J Nutr 1990 Jul;64(1):171–86
The biological effects and digestible energy value of a sugar-beet fibre preparation in the rat. Johnson IT, et al. Br J Nutr 1990 Jul;64(1):187–99
Digestion of fibre polysaccharides of pea (Pisum sativum) hulls, carrot and cabbage by adult cockerels. Longstaff M, et al. Br J Nutr 1989 Nov;62(3):563–77
The significance of water absorption and fibre digestion in the omasum of sheep, goats and cattle. Holtenius K, et al. Comp Biochem Physiol [A] 1989;94(1):105–9
Effects of intake and forage level on site and extent of digestion of plant cell wall monomeric components by sheep. Bourquin LD, et al. J Anim Sci 1990 Aug; 68(8):2479–95
Steam-rolled wheat diets for finishing cattle: effects of dietary roughage and feed intake on finishing steer performance and ruminal metabolism. Kreikemeier KK, et al. J Anim Sci 1990 Jul;68(7):2130–41
A review of the use of intrinsically 14C and rare earth-labeled neutral detergent fiber to estimate particle digestion and passage. Smith LW. J Anim Sci 1989 Aug; 67(8):2123–8 (36 ref.)
Utilization of three maturities of alfalfa by dairy cows fed rations that contain similar concentrations of fiber. Kaiser RM, et al. J Dairy Sci 1989 Sep;72(9):2301–7
Effect of alfalfa maturity on fiber utilization by high producing dairy cows. Llamas-Lamas G, et al. J Dairy Sci 1990 Apr;73(4):1069–80
Dietary interaction of cane molasses with source of roughage: intake and lactation effects. Morales JL, et al. J Dairy Sci 1989 Sep;72(9):2331–8
Effect of source of neutral detergent fiber and starch on nutrient utilization by dairy cows. Weiss WP, et al. J Dairy Sci 1989 Sep;72(9):2308–15
Gut size and the digestion of fibrous diets by tetraonid birds. Moss R. J Exp Zool Suppl 1989;3:61–5 (15 ref.)
The avian ceca: obligate combustion chambers or facultative afterburners? The conditioning influence of diet. Redig PT. J Exp Zool Suppl 1989;3:66–9 (12 ref.)
Why do grouse have ceca? A test of the fiber digestion theory. Remington TE. J Exp Zool Suppl 1989;3:87–94
Effects of diets rich in fermentable carbohydrates on plasma lipoprotein levels and on lipoprotein catabolism in rats. Mazur A, et al. J Nutr 1990 Sep;120(9):1037–45
Fermentation of vegetable fiber in the intestinal tract of rats and effects on fecal bulking and bile acid excretion. Nyman M, et al. J Nutr 1990 May;120(5):459–66
Fermentative characteristics of cereal brans and vegetable fibers. McBurney MI, et al. Nutr Cancer 1990;13(4):271–80
The nutritive value of amaranth grain (Amaranthus caudatus). 3. Energy and fibre of raw and processed grain. Pedersen B, et al. Plant Foods Hum Nutr 1990 Jan; 40(1):61–71
Effect of oligosaccharide-free soybean meal on true metabolizable energy and fiber digestion in adult roosters. Coon CN, et al. Poult Sci 1990 May;69(5):787–93
[The role of dietary fiber in gastroenterology: fact or fancy? (letter)] Robberecht E, et al. Ned Tijdschr Geneeskd 1990 Jan 27;134(4):181–2 (Dut)
[The energy utilization of coarse feed by adult swine] Jentsch W, et al. Arch Tierernahr 1989 Dec;39(12):993–1005 (Eng. Abstr.) (Ger)
[Hormonal changes during administration of dietary fibers in patients with decreased glucose tolerance] Rinfel J, et al. Orv Hetil 1990 Jan 28;131(4):175–7 (25 ref.) (Eng. Abstr.) (Hun)

PHARMACOKINETICS

A model system for studying the adsorption of a hydrophobic mutagen to dietary fibre. Roberton AM, et al. Mutat Res 1990 Jun;244(2):173–8

PHARMACOLOGY

Inhibitors of copper bioutilization: fiber, lead, phytate and tannins. Kies C, et al. Adv Exp Med Biol 1989;258:81–93 (42 ref.)
Oat-bran cereal lowers serum total and LDL cholesterol in hypercholesterolemic men. Anderson JW, et al. Am J Clin Nutr 1990 Sep;52(3):495–9
Dietary fiber supplementation: effect on exocrine pancreatic secretion in man. Dukehart MR, et al. Am J Clin Nutr 1989 Nov;50(5):1023–8
High-carbohydrate, high-fiber diets increase peripheral insulin sensitivity in healthy young and old adults. Fukagawa NK, et al. Am J Clin Nutr 1990 Sep;52(3):524–8
Comparative effects of three cereal brans on plasma lipids, blood pressure, and glucose metabolism in mildly hypercholesterolemic men. Kestin M, et al. Am J Clin Nutr 1990 Oct;52(4):661–6
Determination of peak trabecular bone density: interplay of dietary fiber, carbohydrate, and androgens. Leuenberger PK, et al. Am J Clin Nutr 1989 Nov;50(5):955–61
Effect of breakfast cereals on short-term food intake. Levine AS, et al. Am J Clin Nutr 1989 Dec;50(6):1303–7
Dietary fiber and giardiasis: dietary fiber reduces rate of intestinal infection by Giardia lamblia in the gerbil. Leitch GJ, et al. Am J Trop Med Hyg 1989 Nov;41(5):512–20
The influence of barley fibre on bile composition, gallstone formation, serum cholesterol and intestinal morphology in hamsters. Zhang JX, et al. APMIS 1990 Jun;98(6):568–74
Diet composition alters the acceptance of fat by rats. Reed DR, et al. Appetite 1990 Jun;14(3):219–30
Soy cotyledon fiber products reduce plasma lipids. Lo GS, et al. Atherosclerosis 1990 May;82(1–2):59–67
The availability of zinc in endosperm, whole grain and bran-enriched wheat crispbreads fed to rats on a Zn-deficient diet. Hallmans G, et al. Br J Nutr 1989 Jul; 62(1):165–75
Effect of dietary fibers on glycemia and insulinemia and on gastrointestinal function in rats. Bégin F, et al. Can J Physiol Pharmacol 1989 Oct;67(10):1265–71
Reticulo-ruminal motility in cattle (Bos indicus) and water buffaloes (Bubalus bubalis) fed a low quality roughage diet. McSweeney CS, et al. Comp Biochem Physiol [A] 1989; 94(4):635–8
Interference of dietary fibres with gastrointestinal enzymes in vitro. Leng-Peschlow E. Digestion 1989;44(4):200–10
Guar gum. A review of its pharmacological properties, and use as a dietary adjunct in hypercholesterolaemia. Todd PA, et al. Drugs 1990 Jun;39(6):917–28 (69 ref.)
Effect of dietary fiber from banana (Musa paradisiaca) on metabolism of carbohydrates in rats fed cholesterol free diet. Usha V, et al. Indian J Exp Biol 1989 May;27(5):445–9
The effect of a soluble dietary fibre supplement on 24-hour energy expenditure during a standardized physical activity programme. Ryttig KR, et al. Int J Obes 1990;14(5):451–5
Liver cholesterol concentrations in mice fed diets containing various sources of fat, carbohydrates or fiber. Beynen AC, et al. Int J Vitam Nutr Res 1989;59(4):401–5
Effect of dietary fiber on the vitamin B6 status among vegetarian and nonvegetarian elderly (Dutch nutrition surveillance system). Löwik MR, et al. J Am Coll Nutr 1990 Jun;9(3):241–9
Effects of dietary wheat bran fiber on rectal epithelial cell proliferation in patients with resection for colorectal cancers. Alberts DS, et al. J Natl Cancer Inst 1990 Aug 1;82(15):1280–5
Attenuation of the meal-induced increase in plasma lipids and adipose tissue lipoprotein lipase by guar gum in rats. Deshaies Y, et al. J Nutr 1990 Jan;120(1):64–70
Interrelated effects of dietary fiber and fat on lymphatic cholesterol and triglyceride absorption in rats. Ikeda I, et al. J Nutr 1989 Oct;119(10):1383–7
Effect of viscous indigestible polysaccharides on pancreatic-biliary secretion and digestive organs in rats. Ikegami S, et al. J Nutr 1990 Apr;120(4):353–60
Rat bioassay of wheat bran folate and effects of intestinal bacteria. Keagy PM, et al. J Nutr 1989 Dec;119(12):1932–9
Dose response to a dietary oat bran fraction in cholesterol-fed rats. Shinnick FL, et al. J Nutr 1990 Jun; 120(6):561–8
Modulation of the hypolipidemic effect of fish oils by dietary fiber in rats: studies with rice and wheat bran. Topping DL, et al. J Nutr 1990 Apr;120(4):325–30
Dietary guar gum effects on postprandial blood glucose, insulin and hydroxyproline in humans. Torsdottir I, et al. J Nutr 1989 Dec;119(12):1925–31
Comparison between physiological effects of konjac-glucomannan and propionate in baboons fed "Western" diets. Venter CS, et al. J Nutr 1990 Sep; 120(9):1046–53
Dietary fiber and long-term large bowel response in enterally nourished nonambulatory profoundly retarded youth. Liebl BH, et al. JPEN J Parenter Enteral Nutr 1990 Jul-Aug; 14(4):371–5
Contrasting effects of water-soluble and water-insoluble dietary fibers on bile acid conjugation and taurine metabolism in the rat. Ide T, et al. Lipids 1990 Jun; 25(6):335–40
Plasma and red blood cell magnesium concentrations in Zucker rats: influence of a high fibre diet. Mazur A, et al. Magnes Res 1989 Sep;2(3):189–92
Dietary fiber—nostrum or critical nutrient? [editorial; comment] Connor WE. N Engl J Med 1990 Jan 18; 322(3):193–5 Comment on: N Engl J Med 1990 Jan 18;322(3):147–52.
Comparison of the effects of oat bran and low-fiber wheat on serum lipoprotein levels and blood pressure [see comments] Swain JF, et al. N Engl J Med 1990 Jan 18; 322(3):147–52 Comment in: N Engl J Med 1990 Jan 18;322(3):193–5. Comment in: N Engl J Med 1990 Jun 14;322(24):1746–9.
Colon cancer and dietary fiber: cellulose inhibits the DNA-damaging ability of bile acids. Cheah PY, et al. Nutr Cancer 1990;13(1–2):51–7

Wheat bran diet protects against recurrence of colorectal cancer [news] **Oncology (Williston Park)** 1990 Jul;4(7):139
Fiber fracas at FASEB [news] Moffat A. **Science** 1990 Mar 23;247(4949 Pt 1):1412
Intestinal transit time as an important factor in the pathogenesis of dimethyl-hydrazine-induced rat colon cancer. Baker AR, et al. **Surg Forum** 1978;29:491-2
[The role of dietary fiber in gastroenterology: fact or fancy?] Tytgat GN. **Ned Tijdschr Geneeskd** 1989 Sep 30; 133(39):1926-9 (32 ref.) **(Dut)**

PHYSIOLOGY

[Sense and nonsense of diets] Ballmer PE. **Schweiz Med Wochenschr** 1990 Mar 17;120(11):379-82 (23 ref.) (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Treatment of type IIa hyperlipidemia in childhood by a simplified American Heart Association diet and fiber supplementation. Glassman M, et al. **Am J Dis Child** 1990 Sep;144(9):973-6
The effect of iron on experimental colorectal carcinogenesis. Nelson RL, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1477-82
Dietary fibre and fats in health and disease. Sali A. **Aust Fam Physician** 1990 Mar;19(3):315-7, 320-2, 325-32 (51 ref.)
Management of constipation [letter] Ardron ME, et al. **BMJ** 1990 May 26;300(6736):1400
Dietary fibre. Heaton KW. **BMJ** 1990 Jun 9; 300(6738):1479-80 (47 ref.)
Fibre in the management of diabetes. 1. Natural fibre useful as part of total dietary prescription. Hockaday TD. **BMJ** 1990 May 19;300(6735):1334-6 (37 ref.)
Fibre in the management of diabetes. 2. Benefits of fibre itself are uncertain. Tattersall R, et al. **BMJ** 1990 May 19; 300(6735):1336-7 (19 ref.)
Fibre in the management of diabetes [letter] Uusitupa MI. **BMJ** 1990 Jul 14;301(6743):122
Serum lipids and cholesterol metabolism during guar gum, plantago ovata and high fibre treatments. Miettinen TA, et al. **Clin Chim Acta** 1989 Aug 31;183(3):253-62
Reduction of glycemic and lipid levels in db/db diabetic mice by psyllium plant fiber. Watters K, et al. **Diabetes** 1989 Dec;38(12):1528-33
Placebo-controlled trial of the effects of guar gum and metformin on fasting blood glucose and serum lipids in obese, type 2 diabetic patients. Lalor BC, et al. **Diabetic Med** 1990 Mar-Apr;7(3):242-5
Effects of alpha-glucosidase inhibition and viscous fibre on diabetic control and postprandial gut hormone responses. Requejo F, et al. **Diabetic Med** 1990 Jul;7(6):515-20
Effect of dietary fiber on symptoms and rectosigmoid motility in patients with irritable bowel syndrome. A controlled, crossover study. Cook IJ, et al. **Gastroenterology** 1990 Jan; 98(1):66-72
The non-effect of pirenzepine in dietary resistant irritable bowel syndrome. Gilvarry J, et al. **Ir J Med Sci** 1989 Oct; 158(10):262
High fibre diet-methi seeds—in diabetes mellitus [letter; comment] Bhatia RS. **J Assoc Physicians India** 1989 May; 37(5):347 Comment on: J Assoc Physicians India 1987 May;35(5):353-5.
Dietary fiber, bowel behavior, and constipation [letter] Walker AR, et al. **J Clin Gastroenterol** 1990 Aug; 12(4):478-9
Reduction of colon cancer risk by dietary cellulose supplementation [letter; comment] Heitman DW, et al. **J Natl Cancer Inst** 1990 Jul 4;82(13):1154-5 Comment on: J Natl Cancer Inst 1989 Sep 6;81(17):1290-7.
Effects of neutral detergent fiber from blackgram (Phaseolus mungo) in rats and rabbits. Indira M, et al. **J Nutr** 1989 Sep;119(9):1246-51
Dietary fibre [editorial] Nestel PJ. **Med J Aust** 1990 Aug 6;153(3):123-4
Effect of wheat fiber and vitamins C and E supplements on rectal polyps in patients at high risk for colon cancer. **Nutr Rev** 1990 May;48(5):218-20
Interrelationship between insulin, dietary fiber, and exercise in the management of pregnant diabetics. Winn HN, et al. **Obstet Gynecol Surv** 1989 Oct;44(10):703-10 (72 ref.)
High-fiber diet for diabetes. Safe and effective treatment. Anderson JW, et al. **Postgrad Med** 1990 Aug;88(2):157-61, 164, 167-8 (20 ref.)
Colonic diverticulitis. Recognizing and managing its presentations and complications. Ertan A. **Postgrad Med** 1990 Sep 1;88(3):67-72; 77 (30 ref.)
Chronic constipation in adults. How far should evaluation and treatment go? Marshall JB. **Postgrad Med** 1990 Sep 1;88(3):49-51, 54, 57-9, 63 (21 ref.)
Effect of unprocessed wheat bran on calciuria and oxaluria in patients with urolithiasis. Gleeson MJ, et al. **Urology** 1990 Mar;35(3):231-4
[The effect of Sinecal fiber on compensation in type 2 diabetics] Perušičová J, et al. **Vnitr Lek** 1989 Oct; 35(10):998-1005 (Eng. Abstr.) **(Cze)**
[The role of dietary fiber in gastroenterology: fact or fancy? (letter) (published erratum appears in Ned Tijdschr Geneeskd 1989 Dec 16;133(50):2527)] Hartman AA. **Ned Tijdschr Geneeskd** 1989 Dec 16;133(50):2527 **(Dut)**
[Comparison of guar gum, wheat bran and placebo on carbohydrate and lipid metabolism in type II diabetics] Stahl M, et al. **Schweiz Med Wochenschr** 1990 Mar 24; 120(12):402-8 (27 ref.) (Eng. Abstr.) **(Ger)**
[Role of diet in the treatment of constipation. Review of the literature] Finocchiaro C, et al. **Minerva Dietol Gastroenterol** 1989 Jul-Sep;35(3):165-70 (20 ref.) (Eng. Abstr.) **(Ita)**
[Endoscopic study on the effect of dietary fiber against 1,2-dimethylhydrazine-induced colonic carcinogenesis in rats] Iwane S. **Nippon Shokakibyo Gakkai Zasshi** 1989 Dec; 86(12):2713-20 (Eng. Abstr.) **(Jpn)**
[Clinical and metabolic aspects of using dietary fibers] Dubinin AV, et al. **Klin Med (Mosk)** 1990 Jan;68(1):15-21 (16 ref.) **(Rus)**

DIETARY FORMULATIONS see **FOOD, FORMULATED**

DIETARY HABITS see **FOOD HABITS**

DIETARY OILS see **DIETARY FATS, UNSATURATED**

DIETARY PROTEINS

see related
PROTEIN DEFICIENCY

Pancreatic polypeptide secretion after insulin infusion and protein meal in juvenile type 1 diabetic subjects. Carrà M, et al. **Acta Diabetol Lat** 1990 Apr-Jun;27(2):165-71
Response of pancreatic polypeptide to a protein rich meal in diabetic autonomic neuropathy. Weil R, et al. **Diabete Metab** 1989 Jul-Aug;15(4):163-9
Olfactory self-selection of protein-containing foods. Heinrichs SC, et al. **Physiol Behav** 1990 Mar;47(3):409-13
Protein requirements with total parenteral nutrition. Shizgal HM. **Surg Forum** 1978;29:60-2
Bioconversion of urban and agroindustrial residues into high quality protein through aquaculture. Castagnolli N. **World Rev Nutr Diet** 1990;61:41-63 (72 ref.)
[The possibility of mathematical expression of the biological value of proteins and fats in food products] Vitenberg GF. **Vopr Pitan** 1989 Sep-Oct;(5):66-9 **(Rus)**
[Prospects for using lucerne as a source of dietary protein] Zilova IS, et al. **Vopr Pitan** 1989 Jul-Aug;(4):12-9 (83 ref.) **(Rus)**

ADMINISTRATION & DOSAGE

Proteolytic activities in kidney and liver during refeeding of protein depleted mice. Cassia RO, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):235-44
Levels of milk urea, plasma constituents and rumen liquid ammonia in relation to the feeding of dairy cows during early lactation. Ropstad E, et al. **Acta Vet Scand** 1989; 30(2):199-208
Serum lipid response of hypercholesterolemic men to single and divided doses of canned beans. Anderson JW, et al. **Am J Clin Nutr** 1990 Jun;51(6):1013-9
Calorie and protein provision for recovery from severe burns in infants and young children. Cunningham JJ, et al. **Am J Clin Nutr** 1990 Apr;51(4):553-7
Comparison of daily diets containing 400 kcal (1.67 MJ) of either protein or glucose, and their effects on the response to subsequent total fasting in obese subjects. Gougeon-Reyburn R, et al. **Am J Clin Nutr** 1989 Oct; 50(4):746-58
Differential effect of protein and fat ingestion on blood glucose responses to high- and low-glycemic-index carbohydrates in noninsulin-dependent diabetic subjects. Gulliford MC, et al. **Am J Clin Nutr** 1989 Oct;50(4):773-7
Postingestional effects of a high-protein diet on the regulation of food intake in monkeys. Hannah JS, et al. **Am J Clin Nutr** 1990 Aug;52(2):320-5
Protein requirements in humans. Pellet PL. **Am J Clin Nutr** 1990 May;51(5):723-37 (112 ref.)
Albumin and labile-protein serum concentrations during very-low-calorie diets with different compositions. Scalfi L, et al. **Am J Clin Nutr** 1990 Mar;51(3):338-42
Metabolic response to glucose ingested with various amounts of protein. Westphal SA, et al. **Am J Clin Nutr** 1990 Aug; 52(2):267-72
Mechanisms and nutritional significance of metabolic responses to altered intakes of protein and amino acids, with reference to nutritional adaptation in humans. Young VR, et al. **Am J Clin Nutr** 1990 Feb;51(2):270-89 (137 ref.)
Bone mineral density in adult celiac patients and the effect of gluten-free diet from childhood. Molteni N, et al. **Am J Gastroenterol** 1990 Jan;85(1):51-3
Controlled changes in chronic dietary protein intake do not change glomerular filtration rate. Wiegmann TB, et al. **Am J Kidney Dis** 1990 Feb;15(2):147-54
Protein requirements of growing pups fed practical dry-type diets containing mixed-protein sources. Case LP, et al. **Am J Vet Res** 1990 May;51(5):808-12
Effects of a short-term (4 weeks) protein-sparing modified fast on plasma lipids and lipoproteins in obese women. Vermeulen A. **Ann Nutr Metab** 1990;34(3):133-42
Genuinely olfactory preferences conditioned by protein repletion. Baker BJ, et al. **Appetite** 1989 Dec;13(3):223-7
Increased serum and liver lipid mass and hepatic 3-hydroxy-3-methylglutaryl CoA reductase activities in rabbits fed soy protein saturated fat diets. Bauer JE. **Artery** 1990;17(4):176-88
Biliary lipid composition and gallstone formation in rabbits fed on soy protein, cholesterol, casein and modified casein. Ozben T. **Biochem J** 1989 Oct 1;263(1):293-6
Dietary regulation of voluntary alcohol consumption in rats. Influence of a high protein diet and a methylene blue diet. Pösö AR, et al. **Biochem Pharmacol** 1990 Sep 15; 40(6):1295-8
Na(+)-dependent transport of alanine and serine by liver plasma-membrane vesicles from rats fed a low-protein or a high-protein diet. Bourdel G, et al. **Biochim Biophys Acta** 1990 Jul 9;1026(1):1-12
Excretion of purine derivatives by ruminants: effect of exogenous nucleic acid supply on purine derivative excretion by sheep [published erratum appears in Br J Nutr 1990 May;63(3):following 688] Chen XB, et al. **Br J Nutr** 1990 Jan;63(1):131-42
Prenatal effects of maternal caffeine intake and dietary high protein on mandibular development in fetal rats. Driscoll PG, et al. **Br J Nutr** 1990 Mar;63(2):285-92
Growth, digestibility, and enzyme activities in the pancreas and intestines of guinea-pigs fed on raw and heated soya-bean flour. Hasdai A, et al. **Br J Nutr** 1989 Nov; 62(3):529-37
The effect of patterns of rumen fermentation on the response by dairy cows to dietary protein concentration. Lees JA, et al. **Br J Nutr** 1990 Mar;63(2):177-86
The effect of variation in dietary protein or mineral supply on calcium and phosphorus metabolism in lactating ewes. Rajaratne AA, et al. **Br J Nutr** 1990 Jul;64(1):147-60
The effect of a low-protein diet and a cold environment on calorie intake and body composition in the rat. Schmidt P, et al. **Br J Nutr** 1967;21(2):457-65
Replacement rate of free fatty acids in fasted rats adapted to a high-protein diet. Foss MC, et al. **Braz J Med Biol Res** 1989;22(12):1519-25
Dietary protein and acid production [letter] Abelow B. **Calcif Tissue Int** 1990 May;46(5):348-50
A case-control study of diet and benign proliferative epithelial disorders of the breast. Rohan TE, et al. **Cancer Res** 1990 Jun 1;50(11):3176-81
Systematic modulation by human diet levels of dietary fibre and beef on metabolism and disposition of benzo[a]pyrene in the gastrointestinal tract of Fischer F344 rats. O'Neill IK, et al. **Carcinogenesis** 1990 Apr;11(4):609-16
Modulating effects in human diets of dietary fibre and beef, and of time and dose on the reactive microcapsule trapping of benzo[a]pyrene metabolites in the rat gastrointestinal tract. O'Neill IK, et al. **Carcinogenesis** 1990 Apr; 11(4):599-607
Circadian rhythm variations in the adult rat induced by low and high protein diets administered at various stages of development. Gambardella P, et al. **Chronobiol Int** 1990; 7(1):43-50
Studies on methylmalonic acid in humans. I. Concentrations in serum and urinary excretion in normal subjects after feeding and during fasting, and after loading with protein, fat, sugar, isoleucine, and valine. Rasmussen K. **Clin Chem** 1989 Dec;35(12):2271-6
Comparative efficacy of dietary treatments on renal function in rats with sub-total nephrectomy: renal polyunsaturated fatty acid incorporation and prostaglandin excretion. Clark WF, et al. **Clin Nephrol** 1990 Jan;33(1):25-34
Effect of a high protein diet in patients with the nephrotic syndrome. Mansy H, et al. **Clin Sci** 1989 Oct;77(4):445-51
Role of atrial natriuretic peptide in the increase in glomerular filtration rate induced by a protein meal. Tam SC, et al. **Clin Sci** 1990 May;78(5):481-5
Acute renal effects of protein and amino acids: the potential role of gastrointestinal hormones. Alvestrand A, et al. **Contrib Nephrol** 1989;75:19-25 (40 ref.)
Supplemented diet for severe chronic renal failure: some controversial points. Giovannetti S. **Contrib Nephrol** 1989; 75:147-54 (10 ref.)
Controlled study of protein-restricted diet in chronic renal failure. Locatelli F. **Contrib Nephrol** 1989;75:141-6
Protein-restricted diet in early chronic renal failure. Maschio G, et al. **Contrib Nephrol** 1989;75:134-40 (38 ref.)
The optimal protein intake in patients with early chronic renal failure. Oldrizzi L, et al. **Contrib Nephrol** 1989; 75:203-8
Nutritional and metabolic effects of ten years of protein-restricted diet in patients with early renal failure. Toigo G, et al. **Contrib Nephrol** 1989;75:194-202
Survey of iodine deficiency in a rural area near Tehran: association of food intake and endemic goitre. Kimiagar M, et al. **Eur J Clin Nutr** 1990 Jan;44(1):17-22
Dietary intakes and activity levels of stunted and non-stunted children in Kingston, Jamaica. Part 1. Dietary intakes. Walker SP, et al. **Eur J Clin Nutr** 1990 Jul;44(7):527-34
Chronic toxicity of sodium nitrite in the male F344 rat. Grant D, et al. **Food Chem Toxicol** 1989 Sep;27(9):565-71
Effect of ingested carbohydrate, fat, and protein on the release of somatostatin-28 in humans. Ensinck JW, et al. **Gastroenterology** 1990 Mar;98(3):633-8
Does a low-protein diet help with Parkinson's? Yen PK. **Geriatr Nurs (New York)** 1990 Jan-Feb;11(1):48
Effect of diet and age on jejunal and circulating lymphocyte subsets in children with coeliac disease: persistence of CD4-8-intraepithelial T cells through treatment. Verkasalo MA, et al. **Gut** 1990 Apr;31(4):422-5
Changes in the acinar activity patterns of phosphoenolpyruvate carboxykinase in livers of male and female rats upon feeding a high protein and a high fat diet.

Wimmer M, et al. **Histochemistry** 1990;93(3):257–62

Does dietary protein restriction slow the rate of progression of chronic renal disease? [editorial] Klahr S. **Int J Artif Organs** 1990 Feb;13(2):65–9

Effects of keto-analogues on phosphocalcic and aminoacid metabolism in dialysed patients: a crossover study. Mahmoud MD, et al. **Int J Artif Organs** 1989 Nov; 12(11):692–6

Reversal of dietary obesity is influenced by its duration and severity. Hill JO, et al. **Int J Obes** 1989;13(5):711–22

The effects of variations in carbohydrate, protein, and fat content of the diet upon weight loss, blood values, and nutrient intake of adult obese women. Alford BB, et al. **J Am Diet Assoc** 1990 Apr;90(4):534–40

Use of tofu in preschool meals. Ashraf HR, et al. **J Am Diet Assoc** 1990 Aug;90(8):1114–6

Selection line x diet interactions for two lines of pigs fed 12 or 24% protein diets. Bereskin B, et al. **J Anim Sci** 1990 Apr;68(4):944–59

Intestinal supply of amino acids in sheep fed alkaline hydrogen peroxide-treated wheat straw-based diets supplemented with soybean meal or combinations of corn gluten meal and blood meal. Cecava MJ, et al. **J Anim Sci** 1990 Feb;68(2):467–77

Performance and nutrient balance in growing swine fed low-protein diets supplemented with amino acids and potassium. Kephart KB, et al. **J Anim Sci** 1990 Jul; 68(7):1999–2008

Feed intake and weight gain of growing goats fed diets of various energy and protein levels. Lu CD, et al. **J Anim Sci** 1990 Jun;68(6):1751–9

Value of a molasses mixture containing natural protein as a supplement to brood cows offered low-quality forages. Pate FM, et al. **J Anim Sci** 1990 Mar;68(3):618–23

Intake and digestion of low-quality meadow hay by steers and performance of cows on native range when fed protein supplements containing various levels of corn. Sanson DW, et al. **J Anim Sci** 1990 Mar;68(3):595–603

Corn gluten meal and blood meal mixture for dairy cows in midlactation. De Gracia M, et al. **J Dairy Sci** 1989 Nov; 72(11):3064–9

Influence of dietary protein concentration and degradability on performance of lactating cows during hot environmental temperatures. Higginbotham GE, et al. **J Dairy Sci** 1989 Oct;72(10):2554–64

Regulation of insulin-like growth factor-I and growth hormone receptor gene expression by diabetes and nutritional state in rat tissues. Bornfeldt KE, et al. **J Endocrinol** 1989 Sep;122(3):651–6

The decreased plasma concentration of insulin-like growth factor-I in protein-restricted rats is not due to decreased numbers of growth hormone receptors on isolated hepatocytes. Thissen JP, et al. **J Endocrinol** 1990 Jan; 124(1):159–65

Protein intake and cation transport in the loop of Henle. Seney FD Jr, et al. **J Lab Clin Med** 1989 Nov;114(5):587–94

The effect of a high protein diet on leucine and alanine turnover in acid maltase deficiency. Umpleby AM, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):954–61

Dietary branched-chain amino acids and protein selection by rats. Anderson SA, et al. **J Nutr** 1990 Jan;120(1):52–63

Cholesterol metabolism, digestion rates and postprandial changes in serum of swine fed purified diets containing either casein or soybean protein. Beynen AC, et al. **J Nutr** 1990 May;120(5):422–30

Regulation of rat liver branched-chain alpha-keto acid dehydrogenase activity by meal frequency and dietary protein. Block KP, et al. **J Nutr** 1990 Jul;120(7):793–9

Nitrous oxide provokes changes in folylpenta- and hexaglutamates. Brody T, et al. **J Nutr** 1990 Jan; 120(1):71–80

Effect of environmental enrichment during nutritional rehabilitation on body growth, blood parameters and cerebral cortical development of rats. Carughi A, et al. **J Nutr** 1989 Dec;119(12):2005–16

Effects of undernutrition during suckling on phosphoryl serine levels in nuclear and synaptosomal proteins from cerebral cortex of rats. Gonçalves CA, et al. **J Nutr** 1990 Jun;120(6):594–7

Long-term consistency of nutrient intakes in humans. Heaney RP, et al. **J Nutr** 1990 Aug;120(8):869–75

Contribution of several amino acids and lactate to gluconeogenesis in hepatocytes isolated from rats fed various diets. Kaloyianni M, et al. **J Nutr** 1990 Jan; 120(1):116–22

The effect of protein-energy malnutrition and refeeding on the adherence of Salmonella typhimurium to small intestinal mucosa and isolated enterocytes in rats. Omoike I, et al. **J Nutr** 1990 Apr;120(4):404–11

Utilization of dietary precursors for carnitine synthesis in human adults. Rebouche CJ, et al. **J Nutr** 1989 Dec; 119(12):1907–13

Effect of methionine and threonine on the hypercholesterolemia induced by polychlorinated biphenyls in rats fed a nonprotein diet. Hitomi Y, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Dec;35(6):589–96

Changes in distribution of alpha-tocopherol and cholesterol in serum lipoproteins and tissues of rats by dietary PCB and dietary level of protein. Kato N, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Dec;35(6):655–60

Influence of various dry bean fractions, c.v. Carioca 80, on diet efficiency and dietary protein utilization. Valenzuela MR, et al. **J Nutr Sci Vitaminol (Tokyo)** 1990 Apr; 36(2):141–51

Tumors—effective nitrogen traps independent of protein intake. Torosian MH, et al. **J Surg Res** 1989 Nov; 47(5):456–9

Short-term dietary protein manipulation does not affect survival from intraperitoneal pseudomonas infection in mice. Clouva-Molyvdas P, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4):366–70

Effects of overfeeding in children with muscle dystrophies. Goldstein M, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):603–7

Differential effects of three enteral dietary regimens on selected outcome variables in burn patients. Gottschlich MM, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun; 14(3):225–36

Treatment of acid maltase deficiency with a diet high in branched-chain amino acids. Mobarhan S, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):210–2

GFR increases before renal mass or ODC activity increase in rats fed high protein diets. Kaysen GA, et al. **Kidney Int** 1989 Sep;36(3):441–6

Effect of dietary protein on the renin-angiotensin system in subtotally nephrectomized rats. Rosenberg ME, et al. **Kidney Int** 1990 Aug;38(2):240–8

Dietary compliance to a low protein and phosphate diet in patients with chronic renal failure. Cianciaruso B, et al. **Kidney Int Suppl** 1989 Nov;27:S173–6

Effect of dietary protein restriction and angiotensin converting enzyme inhibition on protein metabolism in the nephrotic syndrome. Don BR, et al. **Kidney Int Suppl** 1989 Nov;27:S163–7

Nutritional state in patients on long-term low-protein diet or with nephrotic syndrome. Guarnieri GF, et al. **Kidney Int Suppl** 1989 Nov;27:S195–200

Effect of moderate protein restriction on the rate of progression of chronic renal failure. Hannedouche T, et al. **Kidney Int Suppl** 1989 Nov;27:S91–5

Effect of ketoacids on the metabolic events induced by varying protein diet in CRF patients. Jahn H, et al. **Kidney Int Suppl** 1989 Nov;27:S122–7

Protein diet and nephrotic syndrome. Olmer M, et al. **Kidney Int Suppl** 1989 Nov;27:S152–3

Renal effects from limitation of high dietary protein in normoalbuminuric diabetic patients. Pedersen MM, et al. **Kidney Int Suppl** 1989 Nov;27:S115–21

Protein-restricted diets in chronic renal failure: a four year follow-up shows limited indications. Rosman JB, et al. **Kidney Int Suppl** 1989 Nov;27:S96–102

Dietary protein restriction in chronic renal failure: an update. Rosman JB. **Klin Wochenschr** 1989 Sep 1;67(17):882–8 (29 ref.)

Low-protein diet and progression of renal disease in diabetic nephropathy [letter; comment] **Lancet** 1990 Feb 17; 335(8686):411–2 Comment on: Lancet 1989 Dec 16;2(8677):1411–5.

Dietary supplementation in elderly patients with fractured neck of the femur [see comments] Delmi M, et al. **Lancet** 1990 Apr 28;335(8696):1013–6 Comment in: Lancet 1990 Jun 2;335(8701):1341–2.

Low-protein diet and progression of renal disease in diabetic nephropathy [letter] Viberti GC, et al. **Lancet** 1990 Mar 3;335(8688):550–1

Restriction of dietary protein and progression of renal failure in diabetic nephropathy [published erratum appears in Lancet 1989 Dec 23–30;2(8678–8679):1540] [see comments] Walker JD, et al. **Lancet** 1989 Dec 16;2(8677):1411–5 Comment in: Lancet 1990 Feb 17;335(8686):411–2.

Metabolic changes in rats fed a low protein diet during post-weaning growth. Claeyssens S, et al. **Metabolism** 1990 Jul;39(7):676–81

Effects of sodium bicarbonate on nitrogen metabolism and ketone bodies during very low energy protein diets in obese subjects. Gougeon-Reyburn R, et al. **Metabolism** 1989 Dec; 38(12):1222–30

Protein restriction and the progression of renal insufficiency [letter; comment] **N Engl J Med** 1990 May 31; 322(22):1609–11 Comment on: N Engl J Med 1989 Dec 28;321(26):1773–7.

The effect of protein restriction on the progression of renal insufficiency [see comments] Ihle BU, et al. **N Engl J Med** 1989 Dec 28;321(26):1773–7 Comment in: N Engl J Med 1990 May 31;322(22):1609–11.

Response of adult rats to lysine supplementation. Mekhael KG, et al. **Nahrung** 1989;33(7):625–30

The estimation of dietary protein intake in chronic renal failure. Coles GA, et al. **Nephrol Dial Transplant** 1989; 4(10):877–82

Renal haemodynamic and hormonal responses to a mixed high-protein meal in normal men. Swainson CP, et al. **Nephrol Dial Transplant** 1989;4(8):683–90

Dietary protein regimen prior to renal ischemia significantly affects the postischemic uremic response. Andrews PM. **Nephron** 1990;55(3):272–6

Effects of chronic and acute protein administration on renal function in patients with chronic renal insufficiency. Bilo HJ, et al. **Nephron** 1989;53(3):181–7

Effects of dietary protein on the progression of renal failure in the Fawn-Hooded rat. De Keijzer MH, et al. **Nephron** 1990;55(2):203–9

Pancreatectomy abolishes the renal hemodynamic response to a meat meal in man [letter] DeSanto NG, et al. **Nephron** 1990;55(1):85–6

A low-protein diet protects uremic rats against the negative sequelae of metabolic acidosis. Gretz N, et al. **Nephron** 1990;54(4):327–33

Effects of l-tryptophan and various diets on behavioral functions in essential hypertensives. Lehnert H, et al. **Neuropsychobiology** 1989;21(2):84–9

An approach to protein restriction in children with renal insufficiency. Raymond NG, et al. **Pediatr Nephrol** 1990 Mar;4(2):145–51 (76 ref.)

Connective tissue, mechanical, and morphometric changes in the lungs of weanling rats fed a low protein diet. Matsui R, et al. **Pediatr Pulmonol** 1989;7(3):159–66

Protein intake in early infancy: effects on plasma amino acid concentrations, insulin metabolism, and growth. Axelsson IE, et al. **Pediatr Res** 1989 Dec;26(6):614–7

Reduction of serum insulin-like growth factor-I by dietary protein restriction is age dependent. Fliesen T, et al. **Pediatr Res** 1989 Nov;26(5):415–9

Quality-protein maize as the sole source of dietary protein and fat for rapidly growing young children. Graham GG, et al. **Pediatrics** 1990 Jan;85(1):85–91

Dietary protein source and plasma lipid profiles of infants. Tseng E, et al. **Pediatrics** 1990 Apr;85(4):548–52

Unlearned specific appetite for protein. Deutsch JA, et al. **Physiol Behav** 1989 Oct;46(4):619–24

Role of prefeedings, plasma amino acid ratios and brain serotonin levels in carbohydrate and protein selection. Holder MD, et al. **Physiol Behav** 1990 Jan;47(1):113–9

Maternal phenylketonuria. Davidson DC. **Postgrad Med J** 1989;65 Suppl 2:S10–20

Phenylketonuria diet in adolescents—energy and nutrient intake—is it adequate? Link R. **Postgrad Med J** 1989;65 Suppl 2:S21–4

Male broiler performance during the starting and growing periods as affected by dietary protein, essential amino acids, and potassium levels. Fancher BI, et al. **Poult Sci** 1989 Oct;68(10):1385–95

The influence of dietary tryptophan on broiler chick growth and lipid metabolism as mediated by dietary protein levels. Rogers SR, et al. **Poult Sci** 1990 May;69(5):746–56

Effect of protein deficiency on some hypothalamic and pituitary hormones in growing male lambs. An immunohistochemical study. Polkowska J. **Reprod Nutr Dev** 1989;29(3):347–56

Influence of dietary protein on the immune responsiveness of sheep to Haemonchus contortus. Abbott EM, et al. **Res Vet Sci** 1990 Jan;48(1):103–7

Serum gastrin, fasting and after stimulation, in systemic sclerosis. La Montagna G, et al. **Scand J Rheumatol** 1989; 18(5):329–31

Low protein diets and diabetic nephropathy. Anderson S. **Semin Nephrol** 1990 May;10(3):287–93 (442 ref.)

Studies of therapy of progressive renal failure in humans. Hunsicker LG. **Semin Nephrol** 1989 Dec;9(4):380–94

Protein restriction or calorie restriction? A critical assessment of the influence of selective calorie restriction on the progression of experimental renal disease. Tapp DC, et al. **Semin Nephrol** 1989 Dec;9(4):343–53 (79 ref.)

Dietary protein requirements of physically active individuals. Paul GL. **Sports Med** 1989 Sep;8(3):154–76 (106 ref.)

Nutritional manipulation of tumor-bearing animals: effects on body weight, serum protein levels, and tumor growth. Daly JM, et al. **Surg Forum** 1978;29:143–4

Impairment of theophylline clearance by a hypocaloric low-protein diet in chronic obstructive pulmonary disease. Juan D, et al. **Ther Drug Monit** 1990 Jan;12(1):111–4

Immunological reactions of pigs during long-term beta-adrenergic treatment. Hirni H, et al. **Zentralbl Veterinarmed [A]** 1990 May;37(4):264–9

[A low-energy protein diet and complete fasting in obese patients. Effect on energy metabolism] Kábrt J, et al. **Cas Lek Cesk** 1990 May 4;129(18):558–61 (Eng. Abstr.) **(Cze)**

[A Czechoslovak low-energy protein diet in the treatment of obesity] Hainer V, et al. **Vnitr Lek** 1990 Apr;36(4):368–78 (Eng. Abstr.) **(Cze)**

[A low-energy protein diet—its effect on lipid and protein metabolism] Kunešová M, et al. **Vnitr Lek** 1990 May; 36(5):417–25 (Eng. Abstr.) **(Cze)**

[Results of weight-loss treatment at a hospital. Significance of the administration of triiodothyronine in small doses during a protein diet] Daubresse JC, et al. **Acta Clin Belg** 1989;44(4):221–7 (Eng. Abstr.) **(Fre)**

[Renal extraction of para-aminohippurate and inulin from sheep on low-protein diets] Cirio A, et al. **Ann Rech Vet** 1990;21(2):167–70 (Eng. Abstr.) **(Fre)**

[Diuresis, renal plasma flow and glomerular filtration in conscious and anesthetized sheep: the effects of a diet deficient in proteins] Cirio A, et al. **Ann Rech Vet** 1990; 21(1):23–32 (Eng. Abstr.) **(Fre)**

[Quantitative and qualitative aspects of the protein intake in total parenteral nutrition following uncomplicated abdominal surgery] Jacob F, et al. **Cah Anesthesiol** 1989 Nov;37(7):483–8 **(Fre)**

[Metabolic characteristics of patients with chronic renal failure in long-term diet therapy and substitution with keto analogs of essential amino acids] Teplan V, et al. **Z Urol Nephrol** 1990 Feb;83(2):89–96 (Eng. Abstr.) **(Ger)**

[The role of early protein restriction in patients with initial renal insufficiency] Finocchiaro C, et al.

Minerva Dietol Gastroenterol 1989 Oct-Dec;35(4):225-30 (Eng. Abstr.) **(Ita)**

[Influence of protein intake on phytohemagglutinin skin test in patients undergoing maintenance hemodialysis] Akiyama M, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Aug; 80(8):1175-80 (Eng. Abstr.) **(Jpn)**

[Studies of the effect of a protein-free diet and branched-chain amino acids (preparation Aminosteril-Hepa) on selected biochemical indicators in chronic experimental hepatic encephalopathy] Boroń P, et al. **Neuropatol Pol** 1989;27(3):437-47 (Eng. Abstr.) **(Pol)**

[Ultrastructural characteristics of the cerebellar cortex in the postnatal development of animals with protein-calorie malnutrition and in subsequent rehabilitation] Medvedev DI, et al. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):20-5 (Eng. Abstr.) **(Rus)**

[Neurohumoral regulation of the secretory function of the pancreas during adaptation to protein-enriched food] Kuznetsova OA, et al. **Fiziol Zh** 1989 Nov-Dec;35(6):57-61 (Eng. Abstr.) **(Rus)**

[Metabolic basis of protein-calorie malnutrition and the role of nutritional support of patients with cirrhosis of the liver (review of the literature)] Tsatsanidi KN, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):137-45 (137 ref.) **(Rus)**

[Effect of increased consumption of plant proteins during hypokinesia on various indicators of calcium metabolism in rats] Arustamov OV, et al. **Kosm Biol Aviakosm Med** 1989 Sep-Oct;23(5):85-6 **(Rus)**

[The significance of an increased protein and fat content in the food ration of rats for the development of stable alloxan diabetes] Ul'ianov AM, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):78-81 (Eng. Abstr.) **(Rus)**

[The characteristics of absorption in the small intestine of young infants with hypotrophy and encephalopathy undergoing protein-anabolic therapy] Aleksandrova NI, et al. **Vopr Pitan** 1990 Jan-Feb;(1):33-6 (Eng. Abstr.) **(Rus)**

[The effect of protein enpit and retabolil on the physical development of young children, patients with prenatal hypotrophy and encephalopathies] Aleksandrova NI, et al. **Vopr Pitan** 1989 Jul-Aug;(4):46-50 (Eng. Abstr.) **(Rus)**

[Metabolism of B group vitamins in rats, receiving rations with various amounts of protein and amino acids under conditions of chronic aniline poisoning] Perevalov AIa, et al. **Vopr Pitan** 1989 Jul-Aug;(4):53-7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Pathogenesis of food protein intolerance. Scott H, et al. **Acta Paediatr Scand Suppl** 1989;351:48-52 (10 ref.)

General and histopathological results of a two-year study of rats fed semi-purified diets containing casein and soya protein. Anastasia JV, et al. **Food Chem Toxicol** 1990 Mar; 28(3):147-56

Cow's milk protein-induced colitis in the breast-fed infant. Pittschieler K. **J Pediatr Gastroenterol Nutr** 1990 May; 10(4):548-9

High protein intake accelerates glomerulosclerosis independent of effects on glomerular hemodynamics. O'Donnell MP, et al. **Kidney Int** 1990 May;37(5):1263-9

Dietary factors and non-Hodgkin's lymphoma: a case-control study in the northeastern part of Italy. Franceschi S, et al. **Nutr Cancer** 1989;12(4):333-41

[Contact urticaria with transition to protein contact dermatitis in a cook with atopic diathesis] Abeck D, et al. **Derm Beruf Umwelt** 1990 Jan-Feb;38(1):24-6 (Eng. Abstr.) **(Ger)**

[Secondary carbohydrate and protein intolerances following gastroenteritis] Stern M. **Monatsschr Kinderheilkd** 1989 Sep;137(9):585-9 (38 ref.) (Eng. Abstr.) **(Ger)**

ANALYSIS

The value of crude protein content and in vitro pepsin digestibility of abattoir by-product meals in the prediction of their available protein content. Hegedüs M, et al. **Acta Vet Hung** 1989;37(1-2):27-33

Traditional and new concepts in protein evaluation of feeds: a review. Hegedüs M. **Acta Vet Hung** 1989;37(1-2):3-16 (83 ref.)

Relationship between dietary protein concentration and serum trypsin-like immunoreactivity in dogs. Carro T, et al. **Am J Vet Res** 1989 Dec;50(12):2105-7

Growth of rearing calves in relation to lysine contents of milk replacer and calf starter and feeding frequency of milk replacer. Veen WA, et al. **Arch Tierernahr** 1989 Jun; 39(6):515-25

Note on the effects of protein concentration on responses to dietary lysine by chicks. Abebe S, et al. **Br Poult Sci** 1990 Jun;31(2):255-60

Equivalency of protein determination in feed on Bran & Luebbe Traacs 800 autoanalyzer with AOAC semiautomated method: minicollaborative study. Kane PF, et al. **J Assoc Off Anal Chem** 1990 Jan-Feb;73(1):31-4

Diagnostic data evaluation. Part III. Collaborative study evaluation: standard deviation considered to be a constant. Malanoski AJ. **J Assoc Off Anal Chem** 1990 May-Jun; 73(3):411-4

Evaluation of protein digestibility-corrected amino acid score method for assessing protein quality of foods. Sarwar G, et al. **J Assoc Off Anal Chem** 1990 May-Jun; 73(3):347-56 (66 ref.)

Generic combustion method for determination of crude protein in feeds: collaborative study. Sweeney RA. **J Assoc Off Anal Chem** 1989 Sep-Oct;72(5):770-4

Acceptability, tolerance, and nutritional value of a rice-based infant formula. Gastañaduy A, et al. **J Pediatr Gastroenterol Nutr** 1990 Aug;11(2):240-6

Sequence of amino acid limitation in triticale. Heger J. **Plant Foods Hum Nutr** 1990 Apr;40(2):131-5

[Determination of the benzo(a)pyrene content of microbial biomasses and protein feed] Schädlich G, et al. **Arch Tierernahr** 1989 Nov;39(11):963-70 (Eng. Abstr.) **(Ger)**

[Photocolorimetric analysis of water-soluble proteins] Churilova TP. **Gig Sanit** 1989 Aug;(8):53 **(Rus)**

[The effect of various methods of thermal treatment on the biological value of minced meat of low caloric value for infants' nutrition] Melinets AI, et al. **Vopr Pitan** 1989 May-Jun;(3):64-7 (Eng. Abstr.) **(Rus)**

[A comparative study of the biological value of proteins in products of hydrogen-oxidizing bacteria biomass processing] Radionov VN, et al. **Vopr Pitan** 1989 Nov-Dec; (6):32-5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

[The experimental effect of growth stimulants on protein assimilation] Nikolaevskaia VR, et al. **Vopr Pitan** 1990 May-Jun;(3):58-60 (Eng. Abstr.) **(Rus)**

HISTORY

American Journal of Clinical Nutrition, Volume 9, 1961: All-vegetable protein mixtures for human feeding [classical article] Scrimshaw NS, et al. **Nutr Rev** 1989 Nov; 47(11):346-9

IMMUNOLOGY

Preliminary investigation on humoral and cellular immune responses to selected food proteins in patients with Crohn's disease. Frieri M, et al. **Ann Allergy** 1990 Apr;64(4):345-51

IgG subclasses to specific food proteins in human adults. Morris R, et al. **Biochem Soc Trans** 1989 Dec;17(6):1060-1

Antibody response reveal differences in oral tolerance to wheat and maize grain protein fractions. Johnson RB, et al. **Clin Exp Immunol** 1990 Jan;79(1):135-40

Influence of the G2m(n) allotype and age on IgG subclass distribution in antibodies to dietary proteins in children with coeliac disease. Rautonen N, et al. **Clin Exp Immunol** 1990 Aug;81(2):306-10

Effects of neutral pepsin on the deposition of dietary antigens in glomeruli from IgA nephropathy. Sato M, et al. **Clin Exp Immunol** 1990 Jul;81(1):137-41

Immunogenicity testing of food proteins: in vitro and in vivo trials in rats. Steinmann J, et al. **Int Arch Allergy Appl Immunol** 1990;91(1):62-5

Isotype distribution and serial levels of antibodies reactive with dietary protein antigens in dermatitis herpetiformis. Barnes RM, et al. **J Clin Lab Immunol** 1989 Oct;30(2):87-91

[The effect of the increased absorption of food protein antigens from the intestines on the development of sensitization in guinea pigs] Gmoshinskiĭ IV, et al. **Vopr Pitan** 1990 Jan-Feb;(1):52-5 (Eng. Abstr.) **(Rus)**

METABOLISM

Protein and energy requirements of low birth weight infants. Heird WC, et al. **Acta Paediatr Scand Suppl** 1989;351:13-23

Effect of heat treatment and subsequent urea supplementation of sunflower meal on the in vitro ruminal degradability of crude protein content and its postruminal digestibility. Veresegyházy T, et al. **Acta Vet Hung** 1989;37(3):255-64

In vitro evaluation of protein degradability in the rumen and digestibility of undegraded protein. Veresegyházy T, et al. **Acta Vet Hung** 1989;37(1-2):103-15

Protein turnover in malnourished elderly subjects: the effects of refeeding. Beaumont D, et al. **Age Ageing** 1989 Jul; 18(4):235-40

Synthesis of urea after a protein-rich meal in normal man in relation to ageing. Marchesini G, et al. **Age Ageing** 1990 Jan;19(1):4-10

Effects of shellfish consumption on lipoproteins in normolipidemic men. Childs MT, et al. **Am J Clin Nutr** 1990 Jun;51(6):1020-7

Dietary protein and nitrogen balance in lactating and nonlactating women. Motil KJ, et al. **Am J Clin Nutr** 1990 Mar;51(3):378-84

Intermediate density lipoprotein-apolipoprotein B turnover in rabbits fed semipurified diets containing casein or soy protein. Samman S, et al. **Ann Nutr Metab** 1990; 34(2):98-103

Digestion and absorption of dietary protein. Erickson RH, et al. **Annu Rev Med** 1990;41:133-9 (18 ref.)

Protein and energy relationships in dairy cattle. 1. Dry cows. Teller E, et al. **Arch Tierernahr** 1989 Jun;39(6):535-42

Protein and energy relationships in dairy cattle. 2. Lactating cows. Teller E, et al. **Arch Tierernahr** 1989 Jun;39(6):543-51

Studies on the evaluation of feed protein for ruminants. 1. Passage of nitrogen fractions to the duodenum of dairy cows fed different protein and carbohydrate sources. Voigt J, et al. **Arch Tierernahr** 1990 Mar;40(3):245-57

Effect of undernutrition and hormone treatments on the absorption of proteins in suckling rat intestine. Babbar HS, et al. **Biochem Med Metab Biol** 1990 Feb;43(1):45-52

Effect of colostrum feeding on protein metabolism in the small intestine of newborn lambs. Patureau Mirand P, et al. **Biol Neonate** 1990;57(1):30-6

Protein and energy metabolism of lactating Granadina goats. Aguilera JF, et al. **Br J Nutr** 1990 Mar;63(2):165-75

The digestion of heat-damaged protein. Nesheim MC, et al. **Br J Nutr** 1967;21(2):399-411

Protein and energy requirements for maintenance of indigenous Granadina goats. Prieto C, et al. **Br J Nutr** 1990 Mar;63(2):155-63

Effect of dietary proteins on the plasma immunoreactive insulin-like growth factor-1/somatomedin C concentration in the rat. Takahashi S, et al. **Br J Nutr** 1990 May; 63(3):521-34

Protein requirement and amino acid imbalance in quail. Straznicka H. **Br Poult Sci** 1990 Mar;31(1):139-45

Responses of body composition, growth and food efficiency to dietary protein in genetically lean and fat broilers up to seven weeks of age. Whitehead CC. **Br Poult Sci** 1990 Mar;31(1):163-72

Discrepancy between estimated energy intake and requirement in female dancers. Dahlström M, et al. **Clin Physiol** 1990 Jan;10(1):11-25

Effects of glucose on nitrogen balance during high nitrogen intake in malnourished patients. Forse RA, et al. **Clin Sci** 1990 Mar;78(3):273-81

Diet selection by adult female Parcoblatta fulvescens cockroaches during the oothecal cycle. Lembke HF, et al. **Comp Biochem Physiol [A]** 1990;95(1):195-9

Enhanced phosphorylation of a nucleolar 110-kDa protein in rat liver by dietary manipulation. Masumi A, et al. **Eur J Biochem** 1990 Aug 28;192(1):63-8

Post-prandial plasma aminograms in the assessment of protein quality for young children: maize and grain amaranth, alone and combined. Graham GG, et al. **Eur J Clin Nutr** 1990 Jan;44(1):35-43

Some errors inherent in a longitudinal dietary survey revealed by the urine nitrogen test. Hultén B, et al. **Eur J Clin Nutr** 1990 Mar;44(3):169-74

A study of protein turnover in preterm neonates using 15N enrichment of urinary ammonia. Stack T, et al. **Eur J Clin Nutr** 1990 Mar;44(3):231-4

Thiamin, riboflavin and pyridoxine status in chronic renal insufficiency. Porrini M, et al. **Int J Vitam Nutr Res** 1989; 59(3):304-8

Uricogenic potential of selected cooked foods in rats. Brulé D, et al. **J Am Coll Nutr** 1990 Jun;9(3):250-4

Effects of dairy biomass protein on ruminal fermentation and site and extent of nutrient digestion by lambs. Caton JS, et al. **J Anim Sci** 1989 Oct;67(10):2762-71

Real ileal protein and amino acid digestibilities in feedstuffs for growing pigs as determined with the 15N-isotope dilution technique. de Lange CF, et al. **J Anim Sci** 1990 Feb;68(2):409-18

Supplementation of dormant tallgrass-prairie forage: I. Influence of varying supplemental protein and(or) energy levels on forage utilization characteristics of beef steers in confinement. DelCurto T, et al. **J Anim Sci** 1990 Feb; 68(2):515-31

Supplementation of dormant tallgrass-prairie forage: II. Performance and forage utilization characteristics in grazing beef cattle receiving supplements of different protein concentrations. DelCurto T, et al. **J Anim Sci** 1990 Feb;68(2):532-42

Effects of dietary amines on small intestinal variables in neonatal pigs fed soy protein isolate. Grant AL, et al. **J Anim Sci** 1990 Feb;68(2):363-71

Effects of faunation and type of dietary protein on gastric solubility and liver content of copper in sheep. Ivan M. **J Anim Sci** 1989 Nov;67(11):3028-35

Influence of supplemental protein source and protein concentration on ruminal and intestinal digestion in heifers. Kirkpatrick BK, et al. **J Anim Sci** 1989 Oct;67(10):2743-50

Effects of ruminal escape proteins and canola meal on nitrogen utilization by growing lambs. Matras J, et al. **J Anim Sci** 1990 Aug;68(8):2546-54

The effects of ruminal escape protein or fat on nutritional status of pregnant winter-grazing beef cows. Miner JL, et al. **J Anim Sci** 1990 Jun;68(6):1743-50

The effects of ruminal escape protein or fat on ruminal characteristics of pregnant winter-grazing beef cows. Miner JL, et al. **J Anim Sci** 1989 Oct;67(10):2782-91

Effects of dietary protein level and clinoptilolite on the weight gain and liver mineral response of growing lambs to copper supplementation. Pond WG. **J Anim Sci** 1989 Oct;67(10):2772-81

Effects of protein and energy supplementation of Guernsey cows on the kinetics of digestion and passage of orchardgrass versus alfalfa. Solaiman SG, et al. **J Anim Sci** 1990 Jul;68(7):2119-29

Effects of protein and carbohydrate sources on digestibility and digesta flow rate in weaned pigs fed a high-fat, dry diet. Turlington WH, et al. **J Anim Sci** 1989 Sep; 67(9):2333-40

Response of early lactation dairy cows fed dieta varying in source of nonstructural carbohydrate and crude protein. Casper DP, et al. **J Dairy Sci** 1990 Apr;73(4):1039-50

Influence of synchronizing protein and starch degradation in the rumen on nutrient utilization and microbial protein synthesis. Herrera-Saldana R, et al. **J Dairy Sci** 1990 Jan; 73(1):142-8

Effects of source of protein and carbohydrate on ruminal fermentation and passage of nutrients to the small intestine of lactating cows. McCarthy RD Jr, et al. **J Dairy Sci** 1989 Aug;72(8):2002–16

Performance of cows in early lactation fed isonitrogenous diets containing soybean meal or animal by–product meals. Mäntysaari PE, et al. **J Dairy Sci** 1989 Nov;72(11):2958–67

Comparison of nitrogen–15 and diaminopimelic acid for estimating bacterial protein synthesis of lactating cows fed diets of varying protein degradability. Sadik MS, et al. **J Dairy Sci** 1990 Mar;73(3):694–702

Effects of dietary protein degradability and casein or amino acid infusions on production and plasma amino acids in dairy cows. Seymour WM, et al. **J Dairy Sci** 1990 Mar; 73(3):735–48

Normal growth and development with unrestricted protein intake after severe infantile propionic acidaemia. Luder AS, et al. **J Inherited Metab Dis** 1989;12(3):307–11

The effects of oral protein on the absorption of intraduodenal levodopa and motor performance. Frankel JP, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep;52(9):1063–7

Effects of feeding rats low protein diets containing casein or soy protein isolate supplemented with methionine or oligo–L–methionine. Chiji H, et al. **J Nutr** 1990 Feb; 120(2):166–71

Protein and energy relationships in the diet of the American alligator (Alligator mississippiensis). Staton MA, et al. **J Nutr** 1990 Jul;120(7):775–85

Development of luminal protein digestion: implications for biologically active dietary polypeptides. Britton JR, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):144–62 (240 ref.)

Visceral protein levels in trauma patients are greater with peptide diet than with intact protein diet. Meredith JW, et al. **J Trauma** 1990 Jul;30(7):825–8; discussion 828–9

Liver arginase activity and urinary nitrogen products profile in adult Bufo arenarum under different protein intake. Castañé PM, et al. **Life Sci** 1990;46(26):1893–901

Nutritive utilization of protein and digestive utilization of fat in two commercial diets designed for clinical enteral nutrition. Alférez MJ, et al. **Nahrung** 1990;34(6):499–507

Influence of medium chain triglycerides and vitamin D3 on digestive and metabolic utilization of protein in rats with intestinal resection. Aliaga IL, et al. **Nahrung** 1990; 34(2):181–8

Estimation of optimum amino acid supplements to triticale. Heger J. **Plant Foods Hum Nutr** 1990 Apr;40(2):137–42

Ochratoxin A and dietary protein. 2. Effects on hematology and various clinical chemistry measurements. Bailey CA, et al. **Poult Sci** 1989 Dec;68(12):1664–71

Lack of interactive effect of nicarbazin and dietary energy–to–protein ratio on performance and abdominal fat pad weight of broiler chicks. Bartov I. **Poult Sci** 1989 Nov; 68(11):1535–9

The requirement for sulfur amino acid by laying hens as influenced by the protein concentration. Calderon VM, et al. **Poult Sci** 1990 Jun;69(6):934–44

Ochratoxin A and dietary protein. 1. Effects on body weight, feed conversion, relative organ weight, and mortality in three–week–old broilers. Gibson RM, et al. **Poult Sci** 1989 Dec;68(12):1658–63

Effect of different protein levels fed during the prebreeder period on performance of turkey breeder hens. Grimes JL, et al. **Poult Sci** 1989 Nov;68(11):1436–41

Weight gain, carcass yield, and composition of large white male turkeys reared to 28 weeks of age on growing and finishing diets with varying levels of dietary protein. Summers JD, et al. **Poult Sci** 1990 Apr;69(4):584–91

Weight gain and breast yield of large white male turkeys fed diets varying in protein content. Summers JD, et al. **Poult Sci** 1989 Nov;68(11):1547–52

Optimizing amino acid and protein supply and utilization in the newborn. Jackson AA. **Proc Nutr Soc** 1989 Jul; 48(2):293–301 (38 ref.)

Relation between in vitro and in vivo assessment of amino acid availability. Galibois I, et al. **Reprod Nutr Dev** 1989; 29(4):495–507

Dietary fishmeal versus soyabean meal: an assessment of serum and liver enzyme response in the chicken. Aletor VA. **Res Vet Sci** 1990 May;48(3):267–70

Effects of acute protein loads of different sources on renal function of patients with diabetic nephropathy. Nakamura H, et al. **Tohoku J Exp Med** 1989 Oct;159(2):153–62

Dietary factors in mammalian toxicity of chemicals. Iyaniwura TT. **Vet Hum Toxicol** 1990 Apr;32(2):106–10

Nutritional energetics in fish: energy and protein utilization in rainbow trout (Salmo gairdneri). Cho CY, et al. **World Rev Nutr Diet** 1990;61:132–72 (74 ref.)

[Digestion of pea and soya proteins in the preruminant calf. I. Circulating levels of nutrients, antibody formation and intestinal permeability to macromolecules] Nunes do Prado I, et al. **Reprod Nutr Dev** 1989;29(4):413–24 (Eng. Abstr.) (Fre)

[Digestion of pea and soya proteins in the preruminant calf. II. Apparent digestibility at the end of the ileum and the digestive tube] Nunes do Prado I, et al. **Reprod Nutr Dev** 1989;29(4):425–39 (Eng. Abstr.) (Fre)

[Prececal crude protein digestion and amino acid absorption during the use of ileorectostomy and fistula technic in swine] Hennig U, et al. **Arch Exp Veterinarmed** 1990; 44(1):35–44 (Eng. Abstr.) (Ger)

[Parameters of nitrogen metabolism for male broilers of Tetra 82 descent] Müller A, et al. **Arch Tierernahr** 1989 Nov; 39(11):901–10 (Eng. Abstr.) (Ger)

[Microbial metabolites in the large intestinal sections of swine fed rations rich in crude fiber] Schnabel E, et al. **Arch Tierernahr** 1990 Jan–Feb;40(1–2):39–45 (Eng. Abstr.) (Ger)

[The effect of energy concentration and source on the use of feed protein and NPN in lambs. 3. Allantoin excretion and microbial protein synthesis] Ulbrich M, et al. **Arch Tierernahr** 1989 Jun;39(6):553–62 (Eng. Abstr.) (Ger)

[The influence of extrinsic pancreatic nerves on pancreatic enzyme response to intestinal stimuli: a short review] Singer MV, et al. **Z Gastroenterol** 1989 Dec;27 Suppl 3:5–9 (27 ref.) (Ger)

[The effect of a peripheral beta–adrenergic blockade on protein absorption in the small intestine in the early postoperative period] Bondarenko VA, et al. **Patol Fiziol Eksp Ter** 1990 May–Jun;(3):43–5 (Eng. Abstr.) (Rus)

[The normal digestion of protein–containing food products by gastric juice and in pathology of the gastrointestinal tract] Gerasimov VK, et al. **Ter Arkh** 1989;61(11):62–4 (Eng. Abstr.) (Rus)

[The nutritional status characteristics and the protein metabolic indices of children with acute leukemia] Kuvshinnikov VA. **Vopr Pitan** 1990 May–Jun;(3):24–8 (Eng. Abstr.) (Rus)

[Research on xenobiotic metabolism for assessing the quality of protein–containing products from plant raw material produced through biotechnology methods] Martinchik AN, et al. **Vopr Pitan** 1990 May–Jun;(3):61–4 (Eng. Abstr.) (Rus)

[The biological value and assimilability of the proteins of the Guinea bean and its compositions with rice proteins] Safronova AM, et al. **Vopr Pitan** 1990 Jan–Feb;(1):57–61 (Eng. Abstr.) (Rus)

[Various features of the initial stages of assimilation of isotope–labelled dipeptide] Samenkova NF, et al. **Vopr Pitan** 1989 Sep–Oct;(5):55–8 (Eng. Abstr.) (Rus)

[Features of the absorption of modified fish proteins] Sokolova AG, et al. **Vopr Pitan** 1989 Jul–Aug;(4):65–9 (Eng. Abstr.) (Rus)

[Features of the digestive function of the intestines during intake of nontraditional protein] Sokolova AG, et al. **Vopr Pitan** 1989 Nov–Dec;(6):39–42 (Eng. Abstr.) (Rus)

[Study of the digestion and absorption of isolated krill proteins] Sokolova AG. **Vopr Pitan** 1989 Sep–Oct;(5):61–2 (Rus)

PHARMACOKINETICS

Bio–utilization of protein, calcium and zinc from diets based on rice and beans, in human beings. de Angelis RC, et al. **Arq Gastroenterol** 1989 Jul–Sep;26(3):50–4

Antigen absorption in rabbit bacterial diarrhea (RDEC–1). In vitro modifications in ileum and Peyer's patches. Isolauri E, et al. **Dig Dis Sci** 1990 Mar;35(3):360–6

[Radionuclide study of the absorption of nutrients] Ginzburg VS, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):17–20 (Eng. Abstr.) (Rus)

PHARMACOLOGY

High protein intake accelerates the maturation of Na,K–ATPase in rat renal tubules. Jakobsson B, et al. **Acta Physiol Scand** 1990 May;139(1):1–7

Amino acid stimulation of Na,K–ATPase activity in rat proximal tubule after high–protein diet. Jakobsson B, et al. **Acta Physiol Scand** 1990 May;139(1):9–13

Effect of traditional oriental soy products on iron absorption. Macfarlane BJ, et al. **Am J Clin Nutr** 1990 May; 51(5):873–80

Protein turnover and thermogenesis in response to high–protein and high–carbohydrate feeding in men. Robinson SM, et al. **Am J Clin Nutr** 1990 Jul;52(1):72–80

Effect of dietary protein on bed–rest–related changes in whole–body–protein synthesis. Stuart CA, et al. **Am J Clin Nutr** 1990 Sep;52(3):509–14

Acute and chronic responses of human renal kallikrein and kinins to dietary protein. Bolin P, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):F718–23

Effects of dietary protein intake on vasoactive hormones. Daniels BS, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1095–100

Differing actions of dietary protein and enalapril on renal function and proteinuria. Hutchison FN, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F126–32

Effect of protein intake on the autoregulation of renal blood flow. Murray BM, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F168–74

Mediation of food protein–induced jejunal smooth muscle contraction in sensitized rats. Scott RB, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G6–14

Effect of dietary crude–protein type on fertilization and embryo quality in dairy cattle. Blanchard T, et al. **Am J Vet Res** 1990 Jun;51(6):905–8

Nutritional value and intestinal effects of dipeptides and tripeptides. Comparison with their issuing bovine plasma protein in rats. Rouanet JM, et al. **Ann Nutr Metab** 1990; 34(3):175–82

Effects of diet and metoprolol on lipid levels in the blood plasma and morphology of the heart and intramural branches of coronary arteries of spontaneously hypertensive male rats. A 9–month study. Sjöblom L, et al. **Ann Nutr Metab** 1989;33(5):284–96

Dietary regulation of ornithine transcarbamylase mRNA in liver and small intestine. Wraight C, et al. **Aust J Biol Sci** 1988;41(4):435–40

Intestinal glycosyl–transferase activities. Nutritional regulation by a chemically–modified protein: methionyl–casein. Biol MC, et al. **Biochem Int** 1990; 20(2):239–50

Dietary protein and fatty acid composition of liver lipids in the rat. Sjöblom L, et al. **Biochim Biophys Acta** 1990 May 22;1044(2):187–92

Effect of a low protein diet during pregnancy on the fetal rat endocrine pancreas. Snoeck A, et al. **Biol Neonate** 1990; 57(2):107–18

The effect of the protein value of the diet on the neurological manifestations produced in rats by beta, beta–iminodipropionitrile. Morcos SR. **Br J Nutr** 1967; 21(2):269–74

Effects of protein concentration on responses to dietary tryptophan by chicks. Abebe S, et al. **Br Poult Sci** 1990 Jun;31(2):267–72

Protein and energy self–selection by turkey hens: reproductive performance. Emmerson DE, et al. **Br Poult Sci** 1990 Jun;31(2):283–92

Growth, food intake and energy balance of layer and broiler chickens offered glucose in the drinking water and the effect of dietary protein content. Engku Azahan EA, et al. **Br Poult Sci** 1989 Dec;30(4):907–17

Effects of arginine and protein on chicks' responses to dietary lysine. Morris TR, et al. **Br Poult Sci** 1990 Jun;31(2):261–6

Effect of diets with different protein levels on the growth of Walker 256 carcinosarcoma in rats. Waitzberg DL, et al. **Braz J Med Biol Res** 1989;22(4):447–55

The effect of food protein–induced intestinal anaphylaxis on rate of transit. Maric M, et al. **Can J Physiol Pharmacol** 1989 Nov;67(11):1437–41

Long–term adaptive response to dietary protein of hexose monophosphate shunt dehydrogenases in rat kidney tubules. Peragón J, et al. **Cell Biochem Funct** 1990 Jan; 8(1):11–7

Effect of protein intake on regional vascular resistance and reactivity to angiotensin II in the rat. Murray BM. **Circ Res** 1990 Aug;67(2):440–7

Ramipril reduces albuminuria in diabetic rats fed a high protein diet. O'Brien RC, et al. **Clin Exp Pharmacol Physiol** 1989 Aug;16(8):675–80

The influence of dietary whey protein on tissue glutathione and the diseases of aging. Bounous G, et al. **Clin Invest Med** 1989 Dec;12(6):343–9

Renal response to a protein meal in children with single kidneys. Tufro A, et al. **Clin Nephrol** 1990 Jul;34(1):17–21

Effect of dietary protein on renal tubular clearance of drugs in humans. Park GD, et al. **Clin Pharmacokinet** 1989 Dec; 17(6):441–51 (30 ref.)

Effect of dietary protein and fat content on tri–iodothyronine–induced thermogenesis in young chicks (Gallus domesticus). Jong HB, et al. **Comp Biochem Physiol [A]** 1990;95(3):429–33

Effect of dietary protein and amino acids on immune function. Daly JM, et al. **Crit Care Med** 1990 Feb;18(2 Suppl):S86–93 (27 ref.)

Fate of antacid gel in the stomach. Site of action and interaction with food. Bauerfeind P, et al. **Dig Dis Sci** 1990 May;35(5):553–8

Protein ingestion does not affect postprandial lipaemia or chylomicron–triglyceride clearance. Cohen JC. **Eur J Clin Nutr** 1989 Jul;43(7):497–9

Interactive effects of dietary protein and ethanol on rat pancreas. Protein synthesis and enzyme secretion. Korsten MA, et al. **Gastroenterology** 1990 Jul;99(1):229–36

The effect of protein on renal function in cirrhosis. Sweeting J. **Gastroenterology** 1990 Sep;99(3):895

Effects of intravenous amino acid infusion and dietary proteins on kidney function in cirrhosis. Badalamenti S, et al. **Hepatology** 1990 Mar;11(3):379–86

Effects of a low calorie, low protein diet on nutritional parameters, and routine laboratory values in nonobese young and elderly subjects. Rammohan M, et al. **J Am Coll Nutr** 1989 Dec;8(6):545–53

The effects of dietary excesses in animal protein and in sodium on the composition and the crystallization kinetics of calcium oxalate monohydrate in urines of healthy men. Kok DJ, et al. **J Clin Endocrinol Metab** 1990 Oct; 71(4):861–7

Effect of dietary protein on rat renin and angiotensinogen gene expression. Rosenberg ME, et al. **J Clin Invest** 1990 Apr;85(4):1144–9

Effect of dietary protein and exogenous gonadotropin–releasing hormone on circulating progesterone concentrations and performance of Holstein cows. Sonderman JP, et al. **J Dairy Sci** 1989 Aug; 72(8):2179–83

Reverse T3 changes during protein supplemented diets. Relation to nutrient combustion rates. Van Gaal LF, et al. **J Endocrinol Invest** 1989 Dec;12(11):799–803

High–protein feeding stimulates renal thromboxane production in rats with streptozocin–induced diabetes. Collins DM, et al. **J Lab Clin Med** 1989 Nov;114(5):545–53

Dietary protein increases urinary calcium. Kerstetter JE, et al. **J Nutr** 1990 Jan;120(1):134–6 (40 ref.)

Essential amino acids in relation to hypercholesterolemia induced in rabbits by dietary casein. Kurowska EM, et al. **J Nutr** 1990 Aug;120(8):831–6

Cholesterol–lowering activity of various undigested fractions of soybean protein in rats. Sugano M, et al. **J Nutr** 1990 Sep;120(9):977–85

Effects of high protein diet and sodium bicarbonate supplementation on calcium metabolism in rats. Funaba M, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Oct;35(5):495–503

Urinary calcium and calcium balance in young women affected by high protein diet of soy protein isolate and adding sulfur–containing amino acids and/or potassium. Kaneko K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1990 Apr; 36(2):105–16

Early effects of refeeding a complete diet on the translational initiation activity in rat liver slices. Nagai K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Aug;35(4):279–89

Effect of dietary methionine and polychlorinated biphenyls on cholesterol metabolism in rats fed a diet containing soy protein isolate. Oda H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Aug;35(4):333–48

Effects of addition of sulfur–containing amino acids and glycine to soybean protein and casein on serum cholesterol levels of rats. Tanaka K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Aug;35(4):323–32

The effect of protein intake on the lifelong changes in renal function of rats with a solitary kidney damaged at young age. Provoost AP, et al. **J Urol** 1990 Aug;144(2 Pt 2):567–73; discussion 593–4

Effects of formula composition on hepatic and intestinal drug metabolism during enteral nutrition. Knodell RG. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):34–8

The influence of dietary protein on the synthesis of vasoactive substances in subtotally nephrectomized spontaneously hypertensive rats. Hayashi K, et al. **Jpn Heart J** 1989 Nov;30(6):917–27

Renal kallikrein responses to dietary protein: a possible mediator of hyperfiltration. Jaffa AA, et al. **Kidney Int** 1989 Dec;36(6):1003–10

Renal, metabolic and hormonal responses to ingestion of animal and vegetable proteins. Kontessis P, et al. **Kidney Int** 1990 Jul;38(1):136–44

Enalapril and low protein reverse chronic puromycin aminonucleoside nephropathy. Marinides GN, et al. **Kidney Int** 1990 Feb;37(2):749–57 (37 ref.)

Effects of dietary protein intake on renal function in humans. Ando A, et al. **Kidney Int Suppl** 1989 Nov;27:S64–7

Renal function of baboons (Papio hamadryas) with a remnant kidney, and impact of different protein diets. Bourgoignie JJ, et al. **Kidney Int Suppl** 1989 Nov;27:S86–90

Abnormalities in blood amino acid profile after a protein meal in patients with chronic renal failure. Deferrari G, et al. **Kidney Int Suppl** 1989 Nov;27:S212–5

High protein diets stimulate albumin synthesis at the site of albumin mRNA transcription. Kaysen GA, et al. **Kidney Int Suppl** 1989 Nov;27:S168–72

Effect of dietary protein intake and angiotensin converting enzyme inhibition in Heymann nephritis. Kaysen GA, et al. **Kidney Int Suppl** 1989 Nov;27:S154–62

Dietary protein and insulin–like growth factor–I content following unilateral nephrectomy. el Nahas AM, et al. **Kidney Int Suppl** 1989 Nov;27:S15–9

Effect of dietary constituents on renal function. Winchester JF, et al. **Kidney Int Suppl** 1989 Nov;27:S68–72

Metabolic response to egg white and cottage cheese protein in normal subjects. Nuttall FQ, et al. **Metabolism** 1990 Jul; 39(7):749–55

Metabolic adaptation of the renal carbohydrate metabolism. III. Effects of high protein diet on the gluconeogenic and glycolytic fluxes in the proximal and distal renal tubules. García–Salguero L, et al. **Mol Cell Biochem** 1989 Oct 31; 90(2):99–110

The renal response to an acute protein load in man: clinical perspective. Rodríguez–Iturbe B. **Nephrol Dial Transplant** 1990;5(1):1–9 (70 ref.)

Effects of dietary fat and protein on DMH–induced tumor development and immune responses. Nutter RL, et al. **Nutr Cancer** 1990;13(3):141–52

Structural and functional effects of long–term alcohol administration on the dog exocrine pancreas submitted to two different diets. Devaux MA, et al. **Pancreas** 1990 Mar; 5(2):200–9

Dietary restrictions for a single normal kidney. Mitch WE. **Pediatr Nephrol** 1989 Apr;3(2):129

Food and nicotine metabolism. Lee BL, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):621–5

The effect of protein or carbohydrate breakfasts on subsequent plasma amino acid levels, satiety and nutrient selection in normal males. Teff KL, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):829–37

Effects of dietary protein on food and water intake in spontaneously hypertensive rats. Johnson DA, et al. **Physiol Behav** 1989 Jun;45(6):1267–70

Dietary protein and blood pressure in monozygotic twins. Havlik RJ, et al. **Prev Med** 1990 Jan;19(1):31–9

Macular pathology in monkeys fed semipurified diets. Feeney–Burns L, et al. **Prog Clin Biol Res** 1989;314:601–22

Effects of protein level, methionine supplementation and carbohydrate type of the diet on liver lipid and plasma free threonine contents in the lactating rat. Leclerc J, et al. **Reprod Nutr Dev** 1989;29(3):269–76

[Lipids, proteins and carbohydrates stimulate the secretion of intestinal cholecystokinin in the pig] Cuber JC, et al. **Reprod Nutr Dev** 1990;30(2):267–75 (Eng. Abstr.) **(Fre)**

[Absence of effect of the incorporation of a milk phosphopeptide on the utilization of calcium and phosphorus in the young pig] Pointillart A, et al. **Reprod Nutr Dev** 1989;29(4):477–86 (Eng. Abstr.) **(Fre)**

[Influence of dietary animal protein on renal stone disease] Katoh Y. **Nippon Hinyokika Gakkai Zasshi** 1989 Jun; 80(6):823–31 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Regulation of urinary dopamine by protein and NaCl. A model of extraneuronal amine formation in kidney. Young JB. **Am J Hypertens** 1990 Jun;3(6 Pt 2):14S–17S (16 ref.)

Protein and carbohydrate selection respond to changes in dietary saturated fatty acids but not to changes in essential fatty acids. McGee CD, et al. **Life Sci** 1990;47(1):67–76

Effect of a high–protein meal on blood flow to transplanted human kidneys. Greene ER, et al. **Transplantation** 1989 Oct;48(4):584–7

STANDARDS

Adaptation to high protein intakes, with particular reference to formula feeding and the healthy, term infant. Young VR, et al. **J Nutr** 1989 Dec;119(12 Suppl):1799–809 (63 ref.)

Effect of heat processing and storage on protein quality and lysine bioavailability of a commercial enteral product. Lowry KR, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):68–73

Protein quality and iron bioavailability of mechanically and hand–deboned turkey meat fed to rats. Allred LC, et al. **Poult Sci** 1990 Feb;69(2):341–7

[Problems of assessment and control of safety of new sources of food protein] Tutel'ian VA, et al. **Vopr Pitan** 1989 May–Jun;(3):4–9 (24 ref.) **(Rus)**

THERAPEUTIC USE

The effect of protein source in late pregnancy feed on the occurrence of agalactia post partum in the sow. Göransson L. **Acta Vet Scand** 1990;31(1):117–20

Are high–protein diets effective in McArdle's disease? [letter] Kushner RF, et al. **Arch Neurol** 1990 Apr;47(4):383–4

Plant protein rehabilitation diets and iron supplementation of the protein–energy malnourished child. Smith IF, et al. **Eur J Clin Nutr** 1989 Nov;43(11):763–8

Protein sparing in diabetic patients. Sizemore DA, et al. **Surg Forum** 1978;29:66–8

[Antiatherogenic properties of the soy protein isolate 500 E] Tutel'ian VA, et al. **Patol Fiziol Eksp Ter** 1989 Jul–Aug; (4):62–5 (Eng. Abstr.) **(Rus)**

[The use of a dried protein mixture in treating patients with viral hepatitis] Dunaevskiĭ GA, et al. **Vrach Delo** 1989 Jul; (7):109–12 (Eng. Abstr.) **(Rus)**

TOXICITY

[The hygienic evaluation of modified Alaska pollack protein based on pathomorphological research] Gulich MP, et al. **Vopr Pitan** 1990 May–Jun;(3):39–43 (Eng. Abstr.) **(Rus)**

DIETARY SERVICES

RDs respond to physician's suggestions [letter; comment] **J Am Diet Assoc** 1990 Feb;90(2):200, 202 Comment on: J Am Diet Assoc 1989 Sep;89(9):1230, 1234.

Development of an evaluation model for computer foodservice management systems. Bender JR, et al. **J Am Diet Assoc** 1989 Oct;89(10):1465–72

Comparing nutrition programs conducted by public health and Cooperative Extension personnel. Brown JL, et al. **J Am Diet Assoc** 1990 Jan;90(1):59–64

Foodservice in a hemodialysis center. Domer JA. **J Am Diet Assoc** 1989 Oct;89(10):1506–7

A regional survey of third–party reimbursement policies for nutrition services. Hassell J, et al. **J Am Diet Assoc** 1990 May;90(5):710–2

Federal nutrition services for American Indian and Alaska native elders. Jackson MY, et al. **J Am Diet Assoc** 1990 Apr;90(4):568–71

Establishing outpatient nutrition services for children with cerebral palsy. Johnson RK, et al. **J Am Diet Assoc** 1989 Oct;89(10):1504–6

Another response to physician's views on the future of clinical dietetics [letter; comment] Landye ST. **J Am Diet Assoc** 1990 Jun;90(6):790 Comment on: J Am Diet Assoc 1989 Sep;89(9):1230, 1234.

Serving infants and children with special health care needs in the 1990s—are we ready? Lucas BL. **J Am Diet Assoc** 1989 Nov;89(11):1599–601

Computer use in Massachusetts elderly nutrition programs. Messina MS, et al. **J Am Diet Assoc** 1989 Oct;89(10):1502–4

Enhancing the client acceptance of nutrition counseling: understanding the service concept and developing a positive residual. Meyer MK. **J Am Diet Assoc** 1989 Nov; 89(11):1655–6

Care plans for marketing and sales opportunities. Moore CH. **J Am Diet Assoc** 1989 Oct;89(10):1478–80, 1483

Winning strategies to excel in dietetics. Rinke WJ, et al. **J Am Diet Assoc** 1990 Jul;90(7):935–8

CLASSIFICATION

[New classification of diets] Agadzhanov SA. **Sov Med** 1990; (2):47–50 **(Rus)**

ECONOMICS

Conducting a third–party reimbursement survey: experience of the Connecticut Nutrition Services Payment Systems Committee. Bell LS, et al. **J Am Diet Assoc** 1990 Jan; 90(1):82–6

Changes in billing for nutrition support services and dietetics staff resources between 1984 and 1986. Compher C, et al. **J Am Diet Assoc** 1990 May;90(5):686–9

Implications of malnutrition and diagnosis–related groups (DRGs). Delhey DM, et al. **J Am Diet Assoc** 1989 Oct; 89(10):1448–51

President's page: the Midas touch. Wellman HS, et al. **J Am Diet Assoc** 1990 Sep;90(9):1278–81

LEGISLATION & JURISPRUDENCE

Medicaid regulations for long–term care. **J Am Diet Assoc** 1990 Aug;90(8):1062–3

Early nutrition intervention services for children with special health care needs. Hine RJ, et al. **J Am Diet Assoc** 1989 Nov;89(11):1636–9

Are dietitians prepared to work with handicapped infants? PL 99–457 offers new opportunities. Kaufman M. **J Am Diet Assoc** 1989 Nov;89(11):1602–5

ORGANIZATION & ADMINISTRATION

Marketing skills for the 1990s: practical steps for promoting dietetic professionals. **J Am Diet Assoc** 1990 Jan;90(1):37–9

STANDARDS

Quality assessment and assurance in a long–term care facility: meeting current federal requirements. Herbelin K. **J Am Diet Assoc** 1989 Oct;89(10):1499–500

[Nutritive value of fats in 3 basic meals of university students] Przysławski J, et al. **Rocz Panstw Zakl Hig** 1989;40(2):100–6 (Eng. Abstr.) **(Pol)**

[Nutrition of pregnant women working in large industrial plants] Szponar L, et al. **Rocz Panstw Zakl Hig** 1989; 40(3):188–97 (Eng. Abstr.) **(Pol)**

STATISTICS & NUMERICAL DATA

Changes in nutrition support services between 1984 and 1986. Compher CW, et al. **J Am Diet Assoc** 1989 Oct; 89(10):1452–7

DIETARY SODIUM see SODIUM, DIETARY

DIETETICS

see related
DIETARY SERVICES
FOOD SERVICE, HOSPITAL

The role of nutritional medicine in general practice. Brighthope I. **Aust Fam Physician** 1990 Mar;19(3):357–8, 360, 363–5 (58 ref.)

The roles of dietitian faculty members in clinical nutrition teaching. Lasswell A. **Bull N Y Acad Med** 1989 Nov; 65(9):982–4; discussion 992–4

The roles of dietitian faculty members in clinical nutrition teaching. Munves E. **Bull N Y Acad Med** 1989 Nov; 65(9):988–9; discussion 992–4

The roles of dietitian faculty members in clinical training. Nelson M. **Bull N Y Acad Med** 1989 Nov;65(9):990–1; discussion 992–4

The roles of dietitian faculty members in clinical nutrition teaching. Wylie–Rosett J. **Bull N Y Acad Med** 1989 Nov; 65(9):985–7; discussion 992–4

Maintenance of a nutrient database for clinical trials. Sievert YA, et al. **Controlled Clin Trials** 1989 Dec;10(4):416–25

A physician's guide to locating a qualified nutritionist. Fishman P. **Geriatrics** 1990 Feb;45(2):61–2, 65

Panoramas and perspectives. The American Dietetic Association, 73rd annual meeting. October 15–19, 1990, Denver, Colorado. Abstracts. **J Am Diet Assoc** 1990 Sep; 90(9 Suppl):A1–184

Position of the American Dietetic Association: nutrition intervention in treatment and recovery from chemical dependency. **J Am Diet Assoc** 1990 Sep;90(9):1274–7

Marian C. Spears, PhD, RD, receives 1989 Copher Memorial Award. **J Am Diet Assoc** 1989 Nov;89(11):1672–3

ADA testifies on very–low–calorie diets before the Subcommittee on Regulation, Business Opportunities, and Energy. **J Am Diet Assoc** 1990 May;90(5):648, 650

Position of the American Dietetic Association: optimal weight as a health promotion strategy. **J Am Diet Assoc** 1989 Dec;89(12):1814–7

ADA testifies in support of food labeling legislation. **J Am Diet Assoc** 1989 Oct;89(10):1432, 1434, 1436

Commentary on the role delineation study [comment] **J Am Diet Assoc** 1990 Aug;90(8):1122–3 Comment on: J Am Diet Assoc 1990 Aug;90(8):1124–33.

Position of the American Dietetic Association: very–low–calorie weight loss diets. **J Am Diet Assoc** 1990 May;90(5):722–6 (51 ref.)

ADA testifies on food labeling before Institute of Medicine committee. **J Am Diet Assoc** 1990 Feb;90(2):203–4

Position of the American Dietetic Association: nutrition and

health information on food labels. **J Am Diet Assoc** 1990 Apr;90(4):583–5
ADA testifies on Nutrition Labeling and Education Act of 1989. **J Am Diet Assoc** 1990 Jan;90(1):12–6
Position of the American Dietetic Association: nutrition education for the public. **J Am Diet Assoc** 1990 Jan; 90(1):107–10
How members perceive district associations: a case study. Anderson SL, et al. **J Am Diet Assoc** 1990 Apr;90(4):581–2
Nutrient intake recommendations needed for the older American. Andres R, et al. **J Am Diet Assoc** 1989 Dec; 89(12):1739–41
Selection criteria for dietetic internship admission: what do internship directors consider most important? Carruth BR, et al. **J Am Diet Assoc** 1990 Jul;90(7):999–1001
Nutrition knowledge and dietary practices of college coaches. Corley G, et al. **J Am Diet Assoc** 1990 May; 90(5):705–9
Managing inpatient clinical nutrition services: a comprehensive program assures accountability and success. Ford DA, et al. **J Am Diet Assoc** 1990 May;90(5):695–704
Perceptions of clinical decision making by dietitians and physicians. Gaare J, et al. **J Am Diet Assoc** 1990 Jan; 90(1):54–8
Client perceptions of dietetic students and registered dietitians at a university-based nutrition clinic. Greene GW. **J Am Diet Assoc** 1990 Mar;90(3):417–21
Commentary leaves reader with several questions [letter; comment] Harder JD. **J Am Diet Assoc** 1990 Jun;90(6):790 Comment on: J Am Diet Assoc 1989 Oct;89(10):1441–3.
Career-related psychological preferences of dietetic and restaurant/hotel and institution management students. Houtz CJ, et al. **J Am Diet Assoc** 1990 Jan;90(1):104–6
Transitioning the child fed by gastrostomy into school. Isaacs JS, et al. **J Am Diet Assoc** 1990 Jul;90(7):982–5
Role delineation for dietetic practitioners: empirical results [see comments] Kane MT, et al. **J Am Diet Assoc** 1990 Aug;90(8):1124–33 Comment in: J Am Diet Assoc 1990 Aug;90(8):1122–3.
Care plans for marketing and sales opportunities. Moore CH. **J Am Diet Assoc** 1989 Oct;89(10):1478–80, 1483
Attitudes, knowledge, and problem-solving approach of Michigan dietitians about aging. Noel MM, et al. **J Am Diet Assoc** 1989 Dec;89(12):1753–7
Winning strategies to excel in dietetics. Rinke WJ, et al. **J Am Diet Assoc** 1990 Jul;90(7):935–8
Dietetic specialization: opinions of directors of departments of dietetics. Sandrick JG. **J Am Diet Assoc** 1989 Oct; 89(10):1458–64
Empathy in clinical dietitians and dietetic interns. Spraggins EF, et al. **J Am Diet Assoc** 1990 Feb;90(2):244–9
The need for nutritionists: a survey of dental practitioners. Stager SC, et al. **J Am Diet Assoc** 1990 Jan;90(1):100–2
Influence techniques and activities clinical dietitians use when interacting with physicians. Thomson CA, et al. **J Am Diet Assoc** 1990 Sep;90(9):1242–6
Dietary guidelines: compliance and attitudes of a selected group of registered dietitians. Wilson GD, et al. **J Am Diet Assoc** 1990 Apr;90(4):572–4
Dietitians' participation in nutrition education activities for the public. Zallen EM. **J Am Diet Assoc** 1990 Jun; 90(6):852–4
The role related attitudes of physicians, nurses, and dieticians in the treatment of diabetes. Donnelly MB, et al. **Med Care** 1990 Feb;28(2):175–9
Reducing blood cholesterol: dietitian or diet fact sheet? [letter; comment] Amos BJ. **Med J Aust** 1990 Feb 5; 152(3):168 Comment on: Med J Aust 1989 Nov 20;151(10):566–8.
Reducing blood cholesterol levels in patients with peripheral vascular disease: dietitian or diet fact sheet? [see comments] Heller RF, et al. **Med J Aust** 1989 Nov 20;151(10):566–8 Comment in: Med J Aust 1990 Feb 5;152(3):168.
Dietetic advice [letter] Beaven DW. **N Z Med J** 1989 Sep 27;102(876):515
[Scientific approach in nutrition medicine and the example of diet fads] Sailer D. **Wien Med Wochenschr** 1990 May 15;140(9):223–6 (Eng. Abstr.) **(Ger)**
[Feeding of the crew of the Saliut-7 orbital station] Bychkov VP, et al. **Kosm Biol Aviakosm Med** 1989 Aug-Sep; 23(4):9–14 (Eng. Abstr.) **(Rus)**

EDUCATION

RDs respond to physician's suggestions [letter; comment] **J Am Diet Assoc** 1990 Feb;90(2):200, 202 Comment on: J Am Diet Assoc 1989 Sep;89(9):1230, 1234.
Instructional model for building qualitative management skills. Cluskey M, et al. **J Am Diet Assoc** 1990 Sep; 90(9):1271–3
A retrospective study of graduates of a coordinated internship/master's degree program. Fiedler KM, et al. **J Am Diet Assoc** 1990 Apr;90(4):591–6
Education, research, and practice: bridging the gap. Fitz P, et al. **J Am Diet Assoc** 1989 Nov;89(11):1676–9
Preparing nutrition counselors: perceptions of dietetic students in a counseling practicum. Greene GW, et al. **J Am Diet Assoc** 1990 Feb;90(2):274–6
Minority recruitment and retention: a career ladder approach. Hill-Hogan C. **J Am Diet Assoc** 1990 Apr;90(4):523–5
Are dietitians prepared to work with handicapped infants? PL 99-457 offers new opportunities. Kaufman M. **J Am Diet Assoc** 1989 Nov;89(11):1602–5
Continuing professional education needs of clinical dietitians in Pennsylvania. Klevans DR, et al. **J Am Diet Assoc** 1990 Feb;90(2):282–6
Assessment of student selection practices and beliefs in dietetic internship programs. McCabe BJ, et al. **J Am Diet Assoc** 1990 Jan;90(1):119–23
Activities of coordinated dietetic program directors compared by educational background. Nyland NK, et al. **J Am Diet Assoc** 1989 Dec;89(12):1822–6
Evaluation tools for undergraduate program planning in times of financial austerity. O'Palka J, et al. **J Am Diet Assoc** 1990 May;90(5):690–4
A survey of computer education in coordinated undergraduate programs. Perkin JE, et al. **J Am Diet Assoc** 1989 Oct;89(10):1500–2
The well-read dietitian. Wellman NS. **J Am Diet Assoc** 1990 Jul;90(7):996–8
[Experience with teaching the principles of dietetics at the sanitary hygiene department of the Leningrad Institute of Public Health] Dotsenko VA, et al. **Gig Sanit** 1989 Nov; (11):25–7 **(Rus)**
[The influence of postgraduate instruction on the level of knowledge and on the practical activities of physicians in nutritional hygiene] Karpliuk IA, et al. **Vopr Pitan** 1990 May-Jun;(3):79–80 **(Rus)**

HISTORY

Through the centuries with food and drink, for better or worse. V. Cohen SG, et al. **Allergy Proc** 1990 Mar-Apr; 11(2):89–96
The history of dietetics. 1941 [classical article] Sigerist HE. **Gesnerus** 1989;46 Pt 3-4:249–56
Thought for food. Tracey MV. **Perspect Biol Med** 1989 Autumn;33(1):50–65

MANPOWER

The management component of our profession. Dowling R, et al. **J Am Diet Assoc** 1990 Aug;90(8):1065–6
Supply and demand. Wellman NS. **J Am Diet Assoc** 1989 Dec;89(12):1818–21
[Colombia: a study of the human resources of nutritionist-dietitians] García Ulloa A, et al. **Educ Med Salud** 1989 Oct-Dec;23(4):376–90 **(Spa)**

METHODS

Can dietitians be of value to GPs? Lincoln P, et al. **Aust Fam Physician** 1990 Mar;19(3):305, 308–12
Communicating the concepts of good nutrition in the 1990s. O'Neil C. **J Am Diet Assoc** 1990 Mar;90(3):373–4

ORGANIZATION & ADMINISTRATION

Marketing skills for the 1990s: practical steps for promoting dietetic professionals. **J Am Diet Assoc** 1990 Jan;90(1):37–9

STANDARDS

The development of test specifications for the registration examinations. Webb LC, et al. **J Am Diet Assoc** 1990 Aug; 90(8):1134–5
Beyond the RD. Wellman NS, et al. **J Am Diet Assoc** 1990 Aug;90(8):1117–21
Quality control of the nutritional component of the Growth Failure in Children with Renal Diseases Study. Massie MD, et al. **J Pediatr** 1990 Feb;116(2):S40–5

STATISTICS & NUMERICAL DATA

A survey of the role of the dietitian in preparing patients for home enteral feeding. Skipper A, et al. **J Am Diet Assoc** 1990 Jul;90(7):939–44

TRENDS

Probing the envelope of dietetics by transforming challenges into opportunities [see comments] Finn SC, et al. **J Am Diet Assoc** 1989 Oct;89(10):1441–3 Comment in: J Am Diet Assoc 1990 Jun;90(6):790.
The 1980s: a look at a decade of growth in dietetics through the pages of the Journal. Monsen ER. **J Am Diet Assoc** 1989 Dec;89(12):1742–6
[The pluralism of scientific concepts and the development of the science of nutrition] Konyshev VA. **Vopr Pitan** 1990 May-Jun;(3):8–13 (47 ref.) **(Rus)**

DIETHYL PYROCARBONATE see under **FORMATES**

DIETHYLAMINES

PHARMACOKINETICS

[The effect of lysine-enriched bread on the formation of N-nitrosamines from their precursors in the stomach of dogs] Zhukova GF, et al. **Vopr Pitan** 1990 Mar-Apr; (2):63–5 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effects of AHR-12234 on cardiac transmembrane action potentials, in situ cardiac electrophysiology and experimental models for arrhythmias. Wu KM, et al. **Arch Int Pharmacodyn Ther** 1989 Sep-Oct;301:131–50
Potentiation of nitrogen mustard cytotoxicity by disulfiram, diethyldithiocarbamic acid, and diethylamine in mice. Valeriote F, et al. **Cancer Res** 1989 Dec 1;49(23):6658–61

DIETHYLCARBAMAZINE

ADMINISTRATION & DOSAGE

Eradication of bancroftian filariasis by diethylcarbamazine-medicated common salt on Little Kinmen (Liehyu district), Kinmen (Quemoy) Islands, Republic of China. Fan PC. **Ann Trop Med Parasitol** 1990 Feb;84(1):25–33
Effect of a single dose (3 mg/kg) of diethylcarbamazine on Wuchereria bancrofti var pacifica microfilaraemia [letter] Cartel JL, et al. **Med J Aust** 1990 May 7;152(9):502

ADVERSE EFFECTS

Eosinophil degranulation. An immunologic determinant in the pathogenesis of the Mazzotti reaction in human onchocerciasis. Ackerman SJ, et al. **J Immunol** 1990 May 15;144(10):3961–9
Carbamazepine. What physicians should know about its hematologic effects. Bertolino JG. **Postgrad Med** 1990 Jul; 88(1):183–6
[Chemotherapeutic problems in onchocerciasis] Rivas Alcalá AR, et al. **Bol Chil Parasitol** 1988 Jul-Dec;43(3-4):57–61 (37 ref.) (Eng. Abstr.) **(Spa)**

METABOLISM

Binding properties of diethylcarbamazine. Pampori NA, et al. **Indian J Exp Biol** 1989 Nov;27(11):943–5

PHARMACOLOGY

Diethylcarbamazine, antifilarial drug, inhibits microtubule polymerization and disrupts preformed microtubules. Fujimaki Y, et al. **Biochem Pharmacol** 1990 Mar 1; 39(5):851–6
Diethylcarbamazine: inhibitory effect on acetylcholinesterase of Dirofilaria immitis and Brugia pahangi. Fujimaki Y, et al. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):179–82
[Anti-inflammatory effect of diethylcarbamazine citrate] Zhu LQ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jan;10(1):81–4 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

Filariasis eradication on Kinmen Proper, Kinmen (Quemoy) Islands, Republic of China. Fan PC. **Acta Trop (Basel)** 1990 Mar;47(3):161–9
The effect of diethylcarbamazine citrate on incidence and recovery rates of Brugia malayi microfilaremia in Sabah, Malaysia. Hiil JL, et al. **Am J Trop Med Hyg** 1988 May; 38(3):582–8
Persistence of parasite antigenemia following diethylcarbamazine therapy of bancroftian filariasis. Weil GJ, et al. **Am J Trop Med Hyg** 1988 May;38(3):589–95
The effects of 5,6 benzo-[a]-pyrone (coumarin) and DEC on filaritic lymphoedema and elephantiasis in India. Preliminary results. Jamal S, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):287–90
Efficacy of two different DEC regimens in the treatment of human filarial infection. Prasad GB, et al. **Indian J Med Res** 1990 Mar;91:133–7
Filariasis control in rural areas through detection and treatment with diethylcarbamazine. Biswas H, et al. **J Commun Dis** 1989 Dec;21(4):272–81
Control of bancroftian filariasis by diethylcarbamazine medicated common salt in Karaikal, Pondicherry, India. Narasimham MV, et al. **J Commun Dis** 1989 Sep; 21(3):157–70
Feasibility of controlling lymphatic filarial diseases through primary health care system. Patnaik SK, et al. **J Commun Dis** 1989 Jun;21(2):107–10
Antifilarial activity of intravenous suramin and oral diethylcarbamazine citrate on subperiodic Brugia malayi in the leaf-monkey, Presbytis cristata. Mak JW, et al. **J Helminthol** 1990 Jun;64(2):96–9
Changes in antibody profile after treatment of human onchocerciasis. Lee SJ, et al. **J Infect Dis** 1990 Aug; 162(2):529–33
A controlled trial of ivermectin and diethylcarbamazine in lymphatic filariasis [see comments] Ottesen EA, et al. **N Engl J Med** 1990 Apr 19;322(16):1113–7 Comment in: N Engl J Med 1990 Apr 19;322(16):1153–4.
Microfilaraemia, serum antibody and development of clinical disease in microfilaraemic subjects infected with Wuchereria bancrofti and treated with diethylcarbamazine citrate. Dissanayake S. **Trans R Soc Trop Med Hyg** 1989 May-Jun;83(3):384–8
Towards a filariasis-free community: evaluation of filariasis control over an eleven year period in Flores, Indonesia. Partono F, et al. **Trans R Soc Trop Med Hyg** 1989 Nov-Dec;83(6):821–6
Comparative antifilarial efficacy of the N-oxides of diethylcarbamazine and two of its analogues. Chatterjee RK, et al. **Trop Med Parasitol** 1989 Dec;40(4):474–5
[Filarial meningoencephalitis: discussion of a case] Vitris M, et al. **Med Trop (Mars)** 1989 Jul-Sep;49(3):293–5 (10 ref.) (Eng. Abstr.) **(Fre)**
[Effects of diethylcarbamazine and ivermectin on the mobilization of microfilariae of Onchocerca volvulus] Basset D, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt

2):668–72 (Eng. Abstr.) (Fre)

DIETHYLDITHIOCARBAMATE

Comparison of the pharmacokinetics of ultrafilterable cisplatin species detectable by derivatization with diethyldithiocarbamate or atomic absorption spectroscopy. Goel R, et al. **Eur J Cancer** 1990 Jan;26(1):21–7

A new model of duodenal ulcers induced in rats by diethyldithiocarbamate, a superoxide dismutase inhibitor. Niida H, et al. **Scand J Gastroenterol Suppl** 1989;162:116–9

ADMINISTRATION & DOSAGE

Production of anti-SRBC antibodies after DDC administration in whole-body irradiated mice. Kautská J, et al. **Folia Biol (Praha)** 1990;36(1):57–64

Inhibition of HIV progression by dithiocarb. German DTC Study Group. Reisinger EC, et al. **Lancet** 1990 Mar 24; 335(8691):679–82

ADVERSE EFFECTS

Decreased plasma membrane fluidity of peripheral blood lymphocytes after diethyldithiocarbamate (DTC) therapy in HIV-infected patients. Lehr HA, et al. **Eur J Clin Pharmacol** 1989;37(5):521–3

Role of active oxygen species in diethyldithiocarbamate-induced gastric ulcer in the rat. Oka S, et al. **Experientia** 1990 Mar 15;46(3):281–3

[Possible mechanisms of diethyldithiocarbamate-induced duodenal mucosal damage in rats] Takamasu M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2189–95 (Eng. Abstr.) (Jpn)

DIAGNOSTIC USE

Intracellular localization of 99Tcm-d,l-HMPAO and 201Tl-DDC in rat brain. Costa DC, et al. **Nucl Med Commun** 1989 Jul;10(7):459–66

METABOLISM

Oxidation of diethyldithiocarbamate to disulfiram by liver microsomal cytochrome P-450-containing monooxygenase system. Masuda Y, et al. **Res Commun Chem Pathol Pharmacol** 1989 Oct;66(1):57–67

Increased availability of mercury in rat hepatocytes by complex formation with diethyldithiocarbamate. Hellström-Lindahl E, et al. **Toxicol Lett** 1989 Oct; 49(1):87–98

PHARMACOKINETICS

Metabolic fate of zinc ethylphenyldithiocarbamate in rats. Hasegawa A, et al. **Nippon Eiseigaku Zasshi** 1990 Feb; 44(6):1065–72

PHARMACOLOGY

The influence of sodium diethyldithiocarbamate on behavior and EEG in cats and rabbits. Trąbka J, et al. **Arch Immunol Ther Exp (Warsz)** 1971;19(5):567–76

Antimalarial activity of diethyldithiocarbamate. Potentiation by copper. Meshnick SR, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):213–6

The action of N,N-diethyldithiocarbamate(DDC) on red blood cells. Heumann C, et al. **Biomed Biochim Acta** 1990; 49(2-3):S183-5

Morphological, neurochemical, and behavioral characterizations associated with the combined treatment of diethyldithiocarbamate and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine in mice. Yurek DM, et al. **Brain Res** 1989 Sep 18;497(2):250–9

Effect of the superoxide dismutase inhibitor, diethyldithiocarbamate, on the cytotoxicity of mitomycin antibiotics. Pritsos CA, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):289–98

Diethyldithiocarbamate modulation of murine bone marrow toxicity induced by cis-diammine(cyclobutanedicarboxylato)platinum (II). Schmalbach TK, et al. **Cancer Res** 1989 Dec 1; 49(23):6629–33

Potentiation of nitrogen mustard cytotoxicity by disulfiram, diethyldithiocarbamic acid, and diethylamine in mice. Valeriote F, et al. **Cancer Res** 1989 Dec 1;49(23):6658–61

Diethyldithiocarbamate (DEDC) enhances quinone mediated oxidative stress cytotoxicity in isolated hepatocytes by forming toxic quinone conjugates. Lauriault VV, et al. **Drug Metabol Drug Interact** 1989;7(1):1–15

Diethyldithiocarbamate and disulfiram inhibit MPP+ and dopamine uptake by striatal synaptosomes. Di Monte D, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):23–9

Antioxidant capacity of diethyldithiocarbamate in a metal independent lipid peroxidative process. Zanocco AL, et al. **Free Radic Biol Med** 1989;7(2):151–6

Reduction of tetrachloro(dl-trans)1,2-diaminocyclohexaneplatinum(IV) (tetraplatin) toxicity by the administration of diethyldithiocarbamate (DDTC), S-2(3-aminopropylamino)ethylphosphorothioic acid (WR-2721), or sodium selenite in the Fischer 344 rat. Carfagna PF, et al. **Fundam Appl Toxicol** 1990 May; 14(4):706–19

Imuthiol influences on cytotoxic T cells and NK activity in +/+ and athymic nude BALB/c mice. Florentin I, et al. **Immunopharmacol Immunotoxicol** 1989;11(4):645–55

Cytotoxicity of diethyldithiocarbamate in human versus rodent cell lines. Cohen JD, et al. **Invest New Drugs** 1990 May;8(2):137–42

Effects of the copper chelators diethyldithiocarbamate and bathocuproine sulfonate on interferon and its antiviral state. Calvert JG, et al. **J Interferon Res** 1990 Feb;10(1):13–23

Influence of oxidative stress on the age-linked alterations of the cerebral glutathione system. Benzi G, et al. **J Neurosci Res** 1990 May;26(1):120–8

Antifungal activity of diethyldithiocarbamate. Allerberger F, et al. **Mycoses** 1989 Oct;32(10):527–30

Effects of diethyldithiocarbamate and tetraethylthiuram disulfide on zinc metabolism in mice. Sørensen JA, et al. **Pharmacol Toxicol** 1989 Sep;65(3):209–13

Possible mechanisms of diethyldithiocarbamate-induced gastro-duodenal mucosal damage in rats. Takamasu M, et al. **Scand J Gastroenterol Suppl** 1989;162:112–5

Effect of diethyldithiocarbamate on gastric and duodenal mucosal blood flow and vascular permeability in rats. Teramura S, et al. **Scand J Gastroenterol Suppl** 1989; 162:108–11

[Iron as an inducer of nitric oxide formation in the animal body] Vanin AF, et al. **Biokhimiia** 1989 Dec;54(12):1974–9 (Eng. Abstr.) (Rus)

THERAPEUTIC USE

Use of sodium diethyldithiocarbamate in the treatment of nickel carbonyl poisoning. Sunderman FW Sr. **Ann Clin Lab Sci** 1990 Jan-Feb;20(1):12–21 (24 ref.)

Diethyldithiocarbamate, a novel immunomodulator, prolongs survival in autoimmune MRL-lpr/lpr mice. Halpern MD, et al. **Clin Immunol Immunopathol** 1990 May;55(2):242–54

Modification of cisplatin toxicity with diethyldithiocarbamate. Berry JM, et al. **J Clin Oncol** 1990 Sep;8(9):1585–90

A pilot study of diethyldithiocarbamate in patients with acquired immune deficiency syndrome (AIDS) and the AIDS-related complex. Brewton GW, et al. **Life Sci** 1989; 45(26):2509–20

A randomized, controlled dose response study of intravenous sodium diethyldithiocarbamate in patients with advanced human immunodeficiency virus infection. Kaplan CS, et al. **Life Sci** 1989;45(22):iii–ix

TOXICITY

Mechanism of diethyldithiocarbamate modulation of murine bone marrow toxicity. Schmalbach TK, et al. **Cancer Res** 1990 Oct 1;50(19):6218–21

Mechanism of diethyldithiocarbamate-induced gastric ulcer formation in the rat. Ogino K, et al. **Pharmacol Toxicol** 1990 Feb;66(2):133–7

DIETHYLENETRIAMINE PENTAACETIC ACID see **DTPA**

DIETHYLHEXYL PHTHALATE see under **PHTHALIC ACIDS**

DIETHYLNICOTINAMID see **NIKETHAMIDE**

DIETHYLNITROSAMINE

Image cytometry DNA analysis of diethylnitrosamine-induced dysplasias and invasive squamous cell carcinomas of the esophagus in mice. Munck-Wikland E, et al. **Acta Otolaryngol (Stockh)** 1990 Jan-Feb;109(1-2):155–60

Sex differences in response to four promotion regimens in spite of common first cellular steps in the hepatocellular cancer process initiated by diethylnitrosamine. Cameron RG, et al. **Cancer Lett** 1990 Apr 20;50(2):109–13

Genetic control of susceptibility to diethylnitrosamine carcinogenesis in inbred ACP (grc+) and R16 (grc) rats. Melhem MF, et al. **Cancer Res** 1989 Dec 1;49(23):6813–21

Scaling of fatal cancer risks from laboratory animals to man. Raabe OG. **Health Phys** 1989;57 Suppl 1:419–32

Mutational activation of H-ras and K-ras genes is absent in N-nitroso-N-methylurea-induced liver tumors in rats. Sakai H, et al. **Jpn J Cancer Res** 1990 May;81(5):437–9

[Changes in cell membrane proteins during N-nitrosodiethylamine induced carcinogenesis] Berdinskikh NK, et al. **Biokhimiia** 1990 Mar;55(3):432–8 (Eng. Abstr.) (Rus)

[Calculation of maximum allowable concentration of N-nitrosodimethylamine and N-nitrosodiethylamine based on chronic experiments in mice] Litvinov NN, et al. **Gig Sanit** 1990 Apr;(4):33–6 (Eng. Abstr.) (Rus)

ANALYSIS

Rapid determination of low pg/mg amounts of N-nitrosodiethylamine in rodent body fluid and tissue samples by isotope dilution high resolution mass spectrometry. Timmons L, et al. **J Anal Toxicol** 1989 Nov-Dec;13(6):333–6

METABOLISM

Human cytochrome P450IIA3: cDNA sequence, role of the enzyme in the metabolic activation of promutagens, comparison to nitrosamine activation by human cytochrome P450IIE1. Crespi CL, et al. **Carcinogenesis** 1990 Aug;11(8):1293–300

PHARMACOLOGY

Diethylnitrosamine-induced pulmonary endocrine cell hyperplasia and its association with adenomatosis and adenocarcinoma in rabbits. Huntrakoon M, et al. **Am J Pathol** 1989 Dec;135(6):1119–28

Cell type specific, receptor-mediated modulation of growth kinetics in human lung cancer cell lines by nicotine and tobacco-related nitrosamines. Schuller HM. **Biochem Pharmacol** 1989 Oct 15;38(20):3439–42

Cell and tissue specific localization of O6-methylguanine in the DNA of rats given N-nitrosodimethylamine: effects of protein deficient and normal diets. Fan CY, et al. **Carcinogenesis** 1989 Oct;10(10):1967–70

Stimulation of DNA synthesis in carcinogen-induced diploid hepatocytes in vitro. Klose U, et al. **Carcinogenesis** 1990 Sep;11(9):1479–83

Transient induction of single GST-P positive hepatocytes by DEN. Satoh K, et al. **Carcinogenesis** 1989 Nov; 10(11):2107–11

Sex-steroid receptors in the diethylnitrosamine model of hepatocarcinogenesis: modifications by gonadal ablation and steroid replacement therapy. Tejura S, et al. **J Mol Endocrinol** 1989 Nov;3(3):229–37

[Expression of hetero-organic antigens—nonhistone chromosomal proteins of renal nature in liver cells of rats after administration of tetramethylthiuram disulfide and N-nitrosodiethylamine] Klimova AA. **Eksp Onkol** 1990; 12(4):76–7 (Eng. Abstr.) (Rus)

TOXICITY

Reversible alteration in the expression of the gap junctional protein connexin 32 during tumor promotion in rat liver and its role during cell proliferation. Neveu MJ, et al. **Cancer Commun** 1990;2(1):21–31

High sensitivity of the LEC rat liver to the carcinogenic effect of diethylnitrosamine. Takahashi H, et al. **Cancer Lett** 1990 Jun 15;51(3):247–50

Dose response of hepatocyte replication in rats following continuous exposure to diethylnitrosamine [published erratum appears in Cancer Res 1990 Feb 15;50(4):1352] Deal FH, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6985–8

Cytotoxicity phase of diethylnitrosamine-induced hepatic neoplasia in medaka. Laurén DJ, et al. **Cancer Res** 1990 Sep 1;50(17):5504–14

Possible involvement of arachidonic acid metabolism in phenobarbital promotion of hepatocarcinogenesis. Denda A, et al. **Carcinogenesis** 1989 Oct;10(10):1929–35

Modulation of diethylnitrosamine-initiated placental glutathione S-transferase positive preneoplastic and neoplastic lesions by clofibrate, a hepatic peroxisome proliferator. Hosokawa S, et al. **Carcinogenesis** 1989 Dec; 10(12):2237–41

Comparative study of diethylnitrosamine-initiated two-stage hepatocarcinogenesis in C3H, C57BL and BALB mice promoted by various hepatopromoters. Lee GH, et al. **Carcinogenesis** 1989 Dec;10(12):2227–30

Comparison of three rat liver foci bioassays—incidence of preneoplastic foci initiated by diethylnitrosamine. Oesterle D, et al. **Carcinogenesis** 1989 Oct;10(10):1891–5

Histopathology and cell culture characteristics of liver cells from grc- and grc+ rats given diethylnitrosamine. Smith GJ, et al. **Cell Biol Toxicol** 1990 Apr;6(2):205–17

Monoamine oxidase activity in the liver of rats given diethylnitrosamine. Obata T, et al. **Res Commun Chem Pathol Pharmacol** 1989 Oct; 66(1):97–103

Investigation of a potential cotumorigenic effect of the dioxides of nitrogen and sulfur, and of diesel-engine exhaust, on the respiratory tract of Syrian golden hamsters. Heinrich U, et al. **Res Rep Health Eff Inst** 1989 May; (26):1–27

Lack of modifying effects of p-phenylenediamine on induction of gamma-glutamyl transpeptidase-positive foci in a medium-term bioassay system using F344 rats. Hagiwara A, et al. **Toxicol Lett** 1990 Aug;52(3):261–8

Hepatopathology of diethylnitrosamine in the medaka (Oryzias latipes) following short-term exposure. Bunton TE. **Toxicol Pathol** 1990;18(2):313–23

DIETHYLSTILBESTROL

DES banned again. **Nature** 1973 May 4;243(5401):6

[Competitive affinity chromatography of human alpha fetoprotein on immobilized diethylstilbestrol] Terent'ev AA, et al. **Biull Eksp Biol Med** 1990 May;109(5):438–40 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Changes of blood flow in the adenohypophysis of normal and estrogen pretreated Fisher rats by tamoxifen. Stawowy A, et al. **Acta Endocrinol (Copenh)** 1989 Dec;121(6):821–6

Re: The combination of cyproterone acetate and low dose diethylstilbestrol in the treatment of advanced prostatic carcinoma [letter] Varenhorst E, et al. **J Urol** 1989 Nov; 142(5):1335–6

ADVERSE EFFECTS

Abnormalities of the uterus and cervix after diethylstilbestrol exposure: correlation of findings on MR and

hysterosalpingography. van Gils AP, et al. **AJR Am J Roentgenol** 1989 Dec;153(6):1235–8

Colposcopy in diethylstilbestrol–exposed offspring [letter] Gimbel GL. **Am J Obstet Gynecol** 1990 Aug;163(2):703

Colposcopic findings and intraepithelial neoplasia in diethylstilbestrol–exposed offspring. The Dutch experience. Helmerhorst TJ, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1191–4

Vaginal bleeding and diethylstilbestrol exposure during pregnancy: relationship to genital tract clear cell adenocarcinoma and vaginal adenosis in daughters. Sharp GB, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):994–1001

Are implantation and pregnancy outcome impaired in diethylstilbestrol–exposed women after in vitro fertilization and embryo transfer? Karande VC, et al. **Fertil Steril** 1990 Aug;54(2):287–91

Invasive squamous cell carcinoma of the vagina in a diethylstilbestrol–exposed woman. Faber K, et al. **Gynecol Oncol** 1990 Apr;37(1):125–8 (11 ref.)

The development of gender–related behavior in females following prenatal exposure to diethylstilbestrol (DES). Ehrhardt AA, et al. **Horm Behav** 1989 Dec;23(4):526–41

Epidemiological studies of the effects of diethylstilboestrol. Vessey MP. **IARC Sci Publ** 1989;(96):335–48 (62 ref.)

Fluorescence microscopy of DES–induced morphologic transformation in unfixed, cultured cells. Petcharuttana Y, et al. **J Oral Pathol Med** 1989 Sep;18(8):451–6

Phenotypic differences in upper genital tract abnormalities and reproductive history in dizygotic twins exposed to diethylstilbestrol in utero. A case report. Claman P, et al. **J Reprod Med** 1990 Apr;35(4):431–3

Hypothesis: does breast cancer originate in utero? [see comments] Trichopoulos D. **Lancet** 1990 Apr 21; 335(8695):939–40 (35 ref.) Comment in: Lancet 1990 Jun 30;335(8705):1604.

Effects of estrogen on the human pituitary: a clinicopathologic study. Scheithauer BW, et al. **Mayo Clin Proc** 1989 Sep;64(9):1077–84

The estrogen–prolactinoma nexus in humans—fact or fable?[editorial] Veldhuis JD. **Mayo Clin Proc** 1989 Sep; 64(9):1190–2

[Transplacental administration of diethylstilbestrol in the rat. I. Apropos of the fertility of its offspring] Cognat M, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990;19(4):414–20 (Eng. Abstr.) **(Fre)**

ANALOGS & DERIVATIVES

Inhibition of the hydrosmotic response to antidiuretic hormone by 3,3'-diallyldiethylstilbestrol (DADES). Calamita G, et al. **Biol Cell** 1989;66(1–2):29–36

Prostatic adenocarcinoma with endometrioid features treated with oestrogen. Matsuda T, et al. **Br J Urol** 1989 Sep; 64(3):317–8

Role of the mitochondrial bc1–complex in the cytotoxic action of diethylstilbestrol–diphosphate toward prostatic carcinoma cells. Schulz P, et al. **Cancer Res** 1990 Aug 15; 50(16):5008–12

Association of hepatocellular carcinoma and a hyperplastic nodule after phosphate diethylstilbestrol therapy. Takata T, et al. **Gastroenterol Jpn** 1990 Apr;25(2):253–7

The tumor–inhibiting effect of diethylstilbestrol and its diphosphate on the Nb–H and Nb–R prostatic carcinomas of the rat. Schneider MR, et al. **J Cancer Res Clin Oncol** 1990;116(2):159–67

Histological effects of endocrine therapy for prostatic cancer in relation to clinical course. Isaka S, et al. **Jpn J Clin Oncol** 1989 Sep;19(3):258–64

[Liver disorder owing to estrogen therapy in prostatic cancer. The correlation between serum level of cholinesterase and dose of diethylstilbestrol diphosphate] Yamauchi T, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Dec;80(12):1713–9 (Eng. Abstr.) **(Jpn)**

[Liver disorder owing to estrogen therapy in prostatic cancer, examined histopathologically in six autopsy cases] Yamauchi T, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Dec;80(12):1706–12 (Eng. Abstr.) **(Jpn)**

[The mechanisms of the decrease in prostatic mass in rats during the administration of estrogenic preparations into the cerebrospinal fluid] Bordiushkov IuN, et al. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):69–72 (Eng. Abstr.) **(Rus)**

ANALYSIS

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography–negative–ion chemical ionization mass spectrometry. Bagnati R, et al. **J Chromatogr** 1990 May 18;527(2):267–78

METABOLISM

The uptake of tritiated diethylstilbestrol by the brain, pituitary gland, and genital tract of the fetal macaque: a combined chromatographic and autoradiographic study. Michael RP, et al. **J Clin Endocrinol Metab** 1990 Oct; 71(4):868–74

Effects of various inducers on diethylstilbestrol metabolism, drug–metabolizing enzyme activities and the aromatic hydrocarbon (Ah) receptor in male Syrian golden hamster liver. Blaich G, et al. **J Steroid Biochem** 1990 Feb; 35(2):201–4

PHARMACOLOGY

Reproduction in the red deer female and the effect of oestrogens on the antler cycle and behaviour. Jaczewski Z. **Acta Physiol Pol** 1989 Jan–Feb;40(1):85–95

Inhibition of glycolysis induced by diethylstilbestrol in anaerobically grown yeast. Muratsubaki H, et al. **Biochem Int** 1989 Nov;19(5):993–7

The permeability of lysosomes to sugars. Effect of diethylstilbestrol on the osmotic activation of lysosomes induced by glucose. Jadot M, et al. **Biochem J** 1989 Sep 15;262(3):981–4

Growth responses of prostatic epithelial cells from male mice neonatally exposed to diethylstilbestrol in serum–free collagen gel culture. Turner T, et al. **Cancer Lett** 1990 Jul 31;52(3):209–18

Resistance to lethal levels of diethylstilboestrol in the nematode Caenorhabditis elegans. Goldstein P, et al. **Cytobios** 1989;58(232):7–17

Quantitative change in fibronectin in cultured müllerian mesenchymal cells in response to diethylstilbestrol and müllerian–inhibiting substance. Teng CS. **Dev Biol** 1990 Jul;140(1):1–7

Retinoids, sex steroids and glucocorticoids regulate ectocervical cell envelope formation but not the level of the envelope precursor, involucrin. Gorodeski GI, et al. **Differentiation** 1989 Dec;42(2):75–80

The ontogeny of mouse mammary gland responsiveness to ovarian steroid hormones. Haslam SZ. **Endocrinology** 1989 Nov;125(5):2766–72

Estrogen increases galanin immunoreactivity in hyperplastic prolactin–secreting cells in Fisher 344 rats. Hsu DW, et al. **Endocrinology** 1990 Jun;126(6):3159–67

Presence of immunoreactive vasoactive intestinal polypeptide in anterior pituitary of normal male and long term estrogen–treated female rats: a light microscopic immunohistochemical study. Köves K, et al. **Endocrinology** 1990 Mar;126(3):1756–63

Estrogen inhibition of periosteal bone formation in rat long bones: down–regulation of gene expression for bone matrix proteins. Turner RT, et al. **Endocrinology** 1990 Sep; 127(3):1346–51

The tumor–inhibiting effect of diethylstilbestrol and its diphosphate on the Nb–H and Nb–R prostatic carcinomas of the rat. Schneider MR, et al. **J Cancer Res Clin Oncol** 1990;116(2):159–67

Steroid synthesis in ovarian homogenates from immature mice treated with diethylstilboestrol in neonatal life. Halling A, et al. **J Reprod Fertil** 1990 Jan;88(1):399–404

Steroid binding alterations in tissue compartments of the vagina of control and neonatally diethylstilbestrol–treated adult mice. Eiger S, et al. **J Steroid Biochem** 1990 Apr; 35(5):617–21

An oxytocin precursor intermediate circulates in the plasma of humans and rhesus monkeys administered estrogen. Amico JA, et al. **Neuroendocrinology** 1990 Apr; 51(4):437–43

Effect of amantadine on prolactin secretion, pituitary DNA synthesis and 3H–spiperone binding in male estrogen–treated rats. Krawczyk Z, et al. **Neuroendocrinology** 1990 Jun;51(6):632–6

Effects of intrastriatal hormones on the dorsal immobility response in male rats. Van Hartesveldt C, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):307–10

Cloning and expression of the delayed–rectifier IsK channel from neonatal rat heart and diethylstilbestrol–primed rat uterus. Folander K, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2975–9

Prolactin sensitivity of mammary epithelial cells from mice exposed neonatally to diethylstilbestrol. Levay–Young BK, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):187–91

Effects of diethylstilboestrol on testicular function and luteinizing hormone receptors. Amador AG, et al. **Rev Esp Fisiol** 1989 Sep;45(3):245–53

[The effect and mechanism of estrogen on hepatocyte regeneration in rats] Hu ZY, et al. **Chung–hua Ping Li Hsueh Tsa Chih** 1990 Jun;19(2):112–5 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

Scintigraphic evaluation of secondary myelofibrosis associated with prostatic cancer before and after hormone therapy. Ishimura J, et al. **Clin Nucl Med** 1990 May; 15(5):330–3

Haemostatic changes during hormone manipulation in advanced prostate cancer: a comparison of DES 3 mg/day and goserelin 3.6 mg/month. Emtage LA, et al. **Eur J Cancer** 1990 Mar;26(3):315–9

The effect of pregnant mares serum gonadotrophin on the response of DMBA induced rat mammary tumours to tamoxifen or oestrogen. Clark ER, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1843–50

Neonatal diethylstilbestrol treatment alters aflatoxin B1–DNA adduct concentrations in adult rats. Lamartiniere CA. **J Biochem Toxicol** 1990 Spring;5(1):41–6

Diethylstilbestrol revisited in advanced breast cancer management. Boyer MJ, et al. **Med Pediatr Oncol** 1990; 18(4):317–20

Combined surgery and immediate adjuvant hormonal treatment for stage D1 adenocarcinoma of the prostate: Mayo Clinic experience. Zincke H. **Semin Urol** 1990 Aug; 8(3):175–83

[Effective hormone therapy of prostatic cancer with lung metastasis: 2 cases] Miyabe N, et al. **Hinyokika Kiyo** 1989 May;35(5):901–4 (Eng. Abstr.) **(Jpn)**

[Hormonal treatment of cancer of the prostate] Aguiló F, et al. **Actas Urol Esp** 1989 Jul–Aug;13(4):256–63 (59 ref.) (Eng. Abstr.) **(Spa)**

[Hormone therapy in prostate cancer: clinical results] Morote–Robles J. **Rev Esp Fisiol** 1990 Mar;46(1):59–62 (14 ref.) (Eng. Abstr.) **(Spa)**

TOXICITY

Modification of 7,8–benzoflavone metabolism in hamster liver and kidney microsomes by hepatic tumor inducing treatments. Blaich G, et al. **Carcinogenesis** 1990 Jan; 11(1):95–101

Invited contribution: an objective approach to the development of short–term tests predictive of carcinogenicity. Rosenkranz HS, et al. **Cell Biol Toxicol** 1986 Dec;2(4):425–40 (35 ref.)

Estrogen induction of hepatocellular carcinomas in Armenian hamsters. Coe JE, et al. **Hepatology** 1990 Apr;11(4):570–7

Animal models of prenatal exposure to diethylstilboestrol. Walker BE. **IARC Sci Publ** 1989;(96):349–64 (104 ref.)

Tumors in female offspring of control and diethylstilbestrol–exposed mice fed high–fat diets. Walker BE. **J Natl Cancer Inst** 1990 Jan 3;82(1):50–4

Expression of oncogenes during rat chemical hepatotumorigenesis promoted by estrogen. Himeno Y, et al. **Jpn J Cancer Res** 1989 Aug;80(8):737–42

Aneuploidy assay on diethylstilbestrol by means of in situ hybridization of radioactive and biotinylated DNA probes on interphase nuclei. De Sario A, et al. **Mutat Res** 1990 Feb;243(2):127–31

Aneuploidy induction in human fibroblasts: comparison with results in Syrian hamster fibroblasts. Tsutsui T, et al. **Mutat Res** 1990 Apr;240(4):241–9

Influence of neonatal diethylstilbestrol treatment on prolactin receptor levels in the mouse male reproductive system. Edery M, et al. **Proc Soc Exp Biol Med** 1990 Sep; 194(4):289–92

DIFFERENTIAL THERMAL ANALYSIS see under **CHEMISTRY, ANALYTICAL**

DIFFERENTIATION ANTIGENS see **ANTIGENS, DIFFERENTIATION**

DIFFERENTIATION ANTIGENS, B–CELL see **ANTIGENS, DIFFERENTIATION, B–LYMPHOCYTE**

DIFFERENTIATION ANTIGENS, HAIRY CELL LEUKEMIA see **ANTIGENS, DIFFERENTIATION, B–LYMPHOCYTE**

DIFFERENTIATION ANTIGENS, LEUKOCYTE, HUMAN see **ANTIGENS, CD**

DIFFERENTIATION ANTIGENS, B–LYMPHOCYTE see **ANTIGENS, DIFFERENTIATION, B–LYMPHOCYTE**

DIFFERENTIATION ANTIGENS, MYELOMONOCYTIC see **ANTIGENS, DIFFERENTIATION, MYELOMONOCYTIC**

DIFFERENTIATION MARKERS see **ANTIGENS, DIFFERENTIATION**

DIFFUSION

see related

BIOLOGICAL TRANSPORT

Automated determination of fluoride using silicone–facilitated diffusion. Gitelman HJ, et al. **Anal Biochem** 1990 Apr;186(1):141–4

Transient dichroism studies of spectrin rotational diffusion in solution and bound to erythrocyte membranes. Clague MJ, et al. **Biochemistry** 1990 Apr 24;29(16):3898–904

Lateral diffusion in an archipelago. Distance dependence of the diffusion coefficient. Saxton MJ. **Biophys J** 1989 Sep; 56(3):615–22

Probe diffusion in cross–linked actin gels. Newman J, et al. **Biopolymers** 1989 Nov;28(11):1969–80

On the time dependent diffusion of macromolecules through transient open junctions and their subendothelial spread. 2. Long time model for interaction between leakage sites. Wen GB, et al. **J Theor Biol** 1988 Nov 21;135(2):219–53

Volume–selective and spectroscopically resolved NMR investigation of diffusion and relaxation in fertilised hen eggs. Klammler F, et al. **Phys Med Biol** 1990 Jan; 35(1):67–79

DIFFUSION CHAMBERS, CULTURE

A compartmentalized device for the culture of animal cells. Vogler EA. **Biomater Artif Cells Artif Organs** 1989; 17(5):597–610

Subcutaneous tissue cages for examination of slow release of materials from long–term implants. Leppert PS, et al. **Biomaterials** 1990 Jan;11(1):46–9

Relationship between cells forming colonies in diffusion chambers in vivo (CFU–D) and cells with high proliferative potential in vitro (HPP–CFC–1 and –2).

Niskanen E, et al. **Exp Hematol** 1990 May;18(4):294–8
Diffusion chamber colony-forming unit (CFU-d): a primitive stem cell. Niskanen E, et al. **Int J Cell Cloning** 1989 Nov; 7(6):330–42 (114 ref.)
Tissue-chamber modeling systems—applications in veterinary medicine. Clarke CR. **J Vet Pharmacol Ther** 1989 Dec;12(4):349–68 (89 ref.)
Subcutaneously implanted tissue chambers—a pharmacokinetic study. Clarke CR, et al. **J Vet Pharmacol Ther** 1989 Sep;12(3):312–21
Subcutaneously implanted tissue chambers: a pathophysiological study. Clarke CR, et al. **Res Vet Sci** 1989 Sep;47(2):195–202
Gradient chamber. A new method for migratory fractionation of inflammatory response in vivo. Mesquita RP. **Virchows Arch [A]** 1989;416(1):1–9
[A diffusion chamber for growing microorganisms in vivo] Bil'ko IP. **Mikrobiol Zh** 1986 Jul–Aug;48(4):84–8 (Eng. Abstr.) **(Rus)**

METHODS

A simple micropore system for experimental studies on trichomonad parasites. Rajasekariah GR, et al. **J Parasitol** 1989 Dec;75(6):997–9

DIFFUSION OF INNOVATION see under **COMMUNICATION**

DIFLUCORTOLONE see under **FLUOCORTOLONE**

DIFLUNISAL

ADMINISTRATION & DOSAGE

Effect of multiple dosing on the analgesic action of diflunisal in rats. Walker JS, et al. **Life Sci** 1990;46(10):737–42
Comparison of prophylactic and on-demand diflunisal for pain management of patients having one-visit endodontic therapy. Morse DR, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):729–36

ANALOGS & DERIVATIVES

Reactivity of diflunisal acyl glucuronide in human and rat plasma and albumin solutions. Watt JA, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1067–75
Reactivity considerations in the analysis of glucuronide and sulfate conjugates of diflunisal. Dickinson RG, et al. **Ther Drug Monit** 1989 Nov;11(6):712–20

ANALYSIS

Reactivity considerations in the analysis of glucuronide and sulfate conjugates of diflunisal. Dickinson RG, et al. **Ther Drug Monit** 1989 Nov;11(6):712–20

BLOOD

Covalent binding of diflunisal and probenecid to plasma protein in humans: persistence of the adducts in the circulation. McKinnon GE, et al. **Res Commun Chem Pathol Pharmacol** 1989 Dec; 66(3):339–54

METABOLISM

The effect of multiple dosage on the kinetics of glucuronidation and sulphation of diflunisal in man. Verbeeck RK, et al. **Br J Clin Pharmacol** 1990 Apr; 29(4):381–9
The effect of diethyl ether, pentobarbitone and urethane anaesthesia on diflunisal conjugation and disposition in rats. Watt JA, et al. **Xenobiotica** 1990 Mar;20(3):289–301

PHARMACOKINETICS

Elimination of diflunisal as its acyl glucuronide, phenolic glucuronide and sulfate conjugates in bile–exteriorized and intact rats. Dickinson RG, et al. **Clin Exp Pharmacol Physiol** 1989 Dec;16(12):913–24
The role of sulfate conjugation in the elimination kinetics of diflunisal in the rat [letter] Verbeeck RK, et al. **Drug Metab Dispos** 1990 May–Jun;18(3):267–9
Sex-difference and the effects of smoking and oral contraceptive steroids on the kinetics of diflunisal. Macdonald JI, et al. **Eur J Clin Pharmacol** 1990;38(2):175–9

PHARMACOLOGY

Effects of diflunisal on cutaneous sensory and pain thresholds. Dragani L, et al. **Clin Ther** 1988;10(4):388–91
Influence of chronic diflunisal treatment on the plasma levels, metabolism and excretion of indomethacin. Eriksson LO, et al. **Eur J Clin Pharmacol** 1989;37(1):7–15

THERAPEUTIC USE

A comparison of the efficacy and tolerability of diflunisal and dextropropoxyphene napsylate with acetaminophen in the management of mild to moderate pain after arthroscopy of the knee. Jokl P, et al. **Clin Ther** 1989 Nov–Dec; 11(6):841–5
Diflunisal versus naproxen in the management of rheumatoid arthritis. Osborn TG, et al. **Clin Ther** 1989 Nov–Dec; 11(6):736–43

TOXICITY

Comparative acute effects of aspirin, diflunisal, ibuprofen and indomethacin on renal function in healthy man. Bergamo RR, et al. **Am J Nephrol** 1989;9(6):460–3

DIFLUOROMETHYLORNITHINE see **ALPHA-DIFLUOROMETHYLORNITHINE**

DIGENIC ACID see **KAINIC ACID**

DIGEORGE SYNDROME see under **IMMUNOLOGIC DEFICIENCY SYNDROMES**

DIGESTANTS see **GASTROINTESTINAL AGENTS**

DIGESTION

Ontogeny of digestion and absorption as related to perinatal changes in food composition in infants. Koldovský O. **Acta Paediatr Scand Suppl** 1989;351:7–12 (25 ref.)
Digestion of milk proteins in infancy. Lindberg T, et al. **Acta Paediatr Scand Suppl** 1989;351:29–33
Effect of heat treatment and subsequent urea supplementation of sunflower meal on the in vitro ruminal degradability of crude protein content and its postruminal digestibility. Veresegyházy T, et al. **Acta Vet Hung** 1989;37(3):255–64
Sufficient fermentation and rapid passage of digesta. A problem of adaptation in the hindgut. Björnhag G. **Acta Vet Scand Suppl** 1989;86:204–11 (31 ref.)
Microbial digestion in the large intestine in relation to monogastric and polygastric herbivores. Tisserand JL. **Acta Vet Scand Suppl** 1989;86:83–92 (43 ref.)
Ileorectal anastomosis as a viable model for protein digestion studies in sheep: effect on feed intake, water and acid/base balance and digestive tract anatomy. van der Walt JG, et al. **Acta Vet Scand Suppl** 1989;86:232–4
Pasta cooking time: influence on starch digestion and plasma glucose and insulin responses in healthy subjects. Bornet FR, et al. **Am J Clin Nutr** 1990 Mar;51(3):421–7
Control of interdigestive and intraduodenal meal-stimulated pancreatic secretion in rats. Chariot J, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G198–204
Variations in duodenal cross-sectional area during the interdigestive migrating motility complex. Gregersen H, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G26–31
Inhibition of intestinal degradation of somatostatin by rat milk. Rao RK, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G426–31
Fiber digestion and voluntary intake in horses after adaptation to extensive large-colon resection. Bertone AL, et al. **Am J Vet Res** 1989 Sep;50(9):1628–32
Large intestinal capacity, retention times, and turnover rates of particulate ingesta associated with extensive large-colon resection in horses. Bertone AL, et al. **Am J Vet Res** 1989 Sep;50(9):1621–7
Factors affecting adhesion of Fibrobacter succinogenes subsp. succinogenes S85 and adherence-defective mutants to cellulose. Gong J, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3039–44
Degradation of barley straw, ryegrass, and alfalfa cell walls by Clostridium longisporum and Ruminococcus albus. Varel VH, et al. **Appl Environ Microbiol** 1989 Dec; 55(12):3080–4
Insectivory and social digestion in Drosophila. Gregg TG, et al. **Biochem Genet** 1990 Apr;28(3–4):197–207
Physical-chemical behavior of dietary and biliary lipids during intestinal digestion and absorption. 2. Phase analysis and aggregation states of luminal lipids during duodenal fat digestion in healthy adult human beings. Hernell O, et al. **Biochemistry** 1990 Feb 27;29(8):2041–56
In vitro studies of iron bioavailability. Probing the concentration and oxidation-reduction of pinto bean iron with ferrous chromogens. Chidambaram MV, et al. **Biol Trace Elem Res** 1989 Jan–Feb;19(1–2):25–40
Energy-dispersive X-ray analysis of the mineral content of corn bran treated in vitro and by passage through the pig gastrointestinal tract. Dintzis FR, et al. **Biol Trace Elem Res** 1989 Jan–Feb;19(1–2):41–55
Some generalized stochastic compartment models for digesta flow. Matis JH, et al. **Biometrics** 1989 Sep;45(3):703–20
Effects of some poorly digestible carbohydrates on bile acid bacterial transformations in the rat [published erratum appears in Br J Nutr 1989 Sep;62(2):following 525] Andrieux C, et al. **Br J Nutr** 1989 Jul;62(1):103–19
A comparison of the digestion and reduction in particle size of lucerne hay (Medicago sativa) and Italian ryegrass hay (Lolium italicum) in the ovine digestive tract. Grenet E. **Br J Nutr** 1989 Sep;62(2):493–507
Digestibility of casein, formaldehyde-treated casein and soya-bean protein in relation to their effects on serum cholesterol in rabbits. Kuyvenhoven MW, et al. **Br J Nutr** 1989 Sep;62(2):331–42
A quantitative model of reticulo-rumen particle degradation and passage. Lirette A, et al. **Br J Nutr** 1989 Sep; 62(2):465–79
Passage and rumination of inert particles varying in size and specific gravity as determined from analysis of faecal appearance using multicompartment models. Murphy MR, et al. **Br J Nutr** 1989 Sep;62(2):487–92
The digestion of heat-damaged protein. Nesheim MC, et al. **Br J Nutr** 1967;21(2):399–411
Preparation and characterization of a [14C]cellulose suitable for human metabolic studies. Walters MP, et al. **Br J Nutr** 1989 Jul;62(1):121–9
A comparison between chromium-mordanted hay and acid-insoluble ash to determine apparent digestibility of a chaffed, molassed hay/straw mixture. Cuddeford D, et al. **Equine Vet J** 1990 Mar;22(2):122–5
Effects of intake and forage level on site and extent of digestion of plant cell wall monomeric components by sheep. Bourquin LD, et al. **J Anim Sci** 1990 Aug; 68(8):2479–95
Feed intake, digestion and digesta characteristics of cattle fed Bermudagrass or orchardgrass alone or with ground barley or corn. Brake AC, et al. **J Anim Sci** 1989 Dec; 67(12):3425–36
Effects of dairy biomass protein on ruminal fermentation and site and extent of nutrient digestion by lambs. Caton JS, et al. **J Anim Sci** 1989 Oct;67(10):2762–71
Effect of glucocorticoids and limiting nursing on the carbohydrate digestive capacity and growth rate of piglets. Chapple RP, et al. **J Anim Sci** 1989 Nov;67(11):2956–73
Inhibition of proteolysis at harvest using heat in alfalfa silages: effects on silage composition and digestion by sheep. Charmley E, et al. **J Anim Sci** 1990 Mar;68(3):758–66
Inhibition of proteolysis in alfalfa silages using heat at harvest: effects on digestion in the rumen, voluntary intake and animal performance. Charmley E, et al. **J Anim Sci** 1990 Jul;68(7):2042–51
Real ileal protein and amino acid digestibilities in feedstuffs for growing pigs as determined with the 15N-isotope dilution technique. de Lange CF, et al. **J Anim Sci** 1990 Feb;68(2):409–18
Voluntary consumption and digestion of diets high in endophyte-infected fescue by growing Holstein steers. Goetsch AL, et al. **J Anim Sci** 1989 Sep;67(9):2263–9
Effects of buffer or DL-methionine with different amounts of supplemental corn on feed intake and nutrient digestion by Holstein steers consuming bermudagrass hay. Hall KL, et al. **J Anim Sci** 1990 Jun;68(6):1674–82
Effects of corn vs corn gluten feed on site, extent and ruminal rate of forage digestion and on rate and efficiency of gain. Hannah SM, et al. **J Anim Sci** 1990 Aug;68(8):2536–45
Effects of increasing dietary levels of endophyte-infected tall fescue seed on diet digestibility and ruminal kinetics in sheep. Hannah SM, et al. **J Anim Sci** 1990 Jun; 68(6):1693–701
Effect of extrusion on the ileal and fecal digestibilities of lysine in yellow corn in diets for young pigs. Herkelman KL, et al. **J Anim Sci** 1990 Aug;68(8):2414–24
Effects of lecithin and corn oil on site of digestion, ruminal fermentation and microbial protein synthesis in sheep. Jenkins TC, et al. **J Anim Sci** 1990 Feb;68(2):460–6
Estimating diet digestibility: a comparison of 11 techniques across six different diets fed to rams. Judkins MB, et al. **J Anim Sci** 1990 May;68(5):1405–15
Influence of supplemental protein source and protein concentration on ruminal and intestinal digestion in heifers. Kirkpatrick BK, et al. **J Anim Sci** 1989 Oct;67(10):2743–50
Influence of soybean meal and sorghum grain supplementation on intake, digesta kinetics, ruminal fermentation, site and extent of digestion and microbial protein synthesis in beef steers grazing blue grama rangeland. Krysl LJ, et al. **J Anim Sci** 1989 Nov; 67(11):3040–51
Effects of environmental temperature and ammoniation on utilization of straw by sheep. Llamas-Lamas G, et al. **J Anim Sci** 1990 Jun;68(6):1719–25
Digestibility of cotton plant by-product diets for sheep at two levels of intake. McCann MA, et al. **J Anim Sci** 1990 Feb;68(2):285–95
Effect of group size and feeding regimen on nutrient digestibility studies with weanling pigs. Reinhart GA, et al. **J Anim Sci** 1989 Oct;67(10):2684–91
Intake and digestibility of low-quality meadow hay by cattle receiving various levels of whole shelled corn. Sanson DW, et al. **J Anim Sci** 1989 Nov;67(11):2854–62
Intake and digestion of low-quality meadow hay by steers and performance of cows on native range when fed protein supplements containing various levels of corn. Sanson DW, et al. **J Anim Sci** 1990 Mar;68(3):595–603
A review of the use of intrinsically 14C and rare earth-labeled neutral detergent fiber to estimate particle digestion and passage. Smith LW. **J Anim Sci** 1989 Aug; 67(8):2123–8 (36 ref.)
Effects of protein and energy supplementation of Guernsey cows on the kinetics of digestion and passage of orchardgrass versus alfalfa. Solaiman SG, et al. **J Anim Sci** 1990 Jul;68(7):2119–29
Intake of direct cut or wilted grass silage as related to chewing behavior, ruminal characteristics and site and extent of digestion by heifers. Teller E, et al. **J Anim Sci** 1989 Oct;67(10):2802–9
Effects of protein and carbohydrate sources on digestibility and digesta flow rate in weaned pigs fed a high-fat, dry diet. Turlington WH, et al. **J Anim Sci** 1989 Sep; 67(9):2333–40
Influence of flake density on the comparative feeding value of steam-flaked corn for feedlot cattle. Zinn RA. **J Anim Sci** 1990 Mar;68(3):767–75
Feeding value of coconut alcohol bottoms-bottoms for feedlot cattle. Zinn RA. **J Anim Sci** 1990 Feb;68(2):478–82
Influence of steaming time on site of digestion of flaked corn in steers. Zinn RA. **J Anim Sci** 1990 Mar;68(3):776–81

Effect of yeast culture on nutrient digestibility and milk yield response in early- to midlactation dairy cows. Arambel MJ, et al. **J Dairy Sci** 1990 Jun;73(6):1560–3

Prediction of duodenal nitrogen supply from degradation or organic and nitrogenous matter in situ. Arieli A, et al. **J Dairy Sci** 1989 Oct;72(10):2532–9

Effects of fiber source and method of feeding on chewing activities, digestive function, and productivity of dairy cows. Beauchemin KA, et al. **J Dairy Sci** 1990 Mar; 73(3):749–62

A simple continuous culture system for rumen microbial digestion study and effects of defaunation and dilution rates. Fuchigami M, et al. **J Dairy Sci** 1989 Nov;72(11):3070–8

Effects of dry matter concentration and ammonia treatment of alfalfa silage on digestion and metabolism by heifers. Glenn BP. **J Dairy Sci** 1990 Apr;73(4):1081–90

Influence of cultures of Aspergillus oryzae on rumen and total tract digestibility of dietary components. Gomez-Alarcon RA, et al. **J Dairy Sci** 1990 Mar; 73(3):703–10

Influence of dietary protein concentration and degradability on performance of lactating cows during hot environmental temperatures. Higginbotham GE, et al. **J Dairy Sci** 1989 Oct;72(10):2554–64

Effect of hydrogenated fat on feed intake, nutrient digestion, and lactation performance of dairy cows. Jenkins TC, et al. **J Dairy Sci** 1989 Sep;72(9):2316–24

Recovery of fecal chromium used as a digestibility marker in cattle. Mir PS, et al. **J Dairy Sci** 1989 Oct;72(10):2549–53

Apparent digestibility of nitrogen in rumen and whole tract of Friesian cattle fed direct-cut and wilted grass silages. Narasimhalu P, et al. **J Dairy Sci** 1989 Aug;72(8):2055–61

Assessment of intestinal amino acid availability in cattle by use of the precision-fed cecectomized rooster assay. Titgemeyer E, et al. **J Dairy Sci** 1990 Mar;73(3):690–3

Effect of source of neutral detergent fiber and starch on nutrient utilization by dairy cows. Weiss WP, et al. **J Dairy Sci** 1989 Sep;72(9):2308–15

Transport of water and food particles through the avian ceca and colon. Björnhag G. **J Exp Zool Suppl** 1989;3:32–7 (24 ref.)

Effect of cecectomy on water and nutrient absorption of birds. Chaplin SB. **J Exp Zool Suppl** 1989;3:81–6 (33 ref.)

Gut size and the digestion of fibrous diets by tetraonid birds. Moss R. **J Exp Zool Suppl** 1989;3:61–5 (15 ref.)

Why do grouse have ceca? A test of the fiber digestion theory. Remington TE. **J Exp Zool Suppl** 1989;3:87–94

A comparison of the digestion and absorption of cocoa butter and palm kernel oil and their effects on cholesterol absorption in rats. Chen IS, et al. **J Nutr** 1989 Nov; 119(11):1569–73

Digestion and absorption of fish oil by neonatal piglets. Chiang SH, et al. **J Nutr** 1989 Nov;119(11):1741–3

Development of luminal protein digestion: implications for biologically active dietary polypeptides. Britton JR, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):144–62 (240 ref.)

Determination of digesta flow by continuous marker infusion [letter] Faichney GJ. **J Theor Biol** 1989 Feb 22;136(4):485–6

Nutritive utilization of protein and digestive utilization of fat in two commercial diets designed for clinical enteral nutrition. Alférez MJ, et al. **Nahrung** 1990;34(6):499–507

Study on digestibility and energy availability of daily food intake by the Japanese. Part 2. Horse mackerel and milk. Fujii M, et al. **Nippon Eiseigaku Zasshi** 1989 Oct; 44(4):905–10

Study on digestibility and energy availability of daily intake food in Japanese. Part 1. Kori-dofu and soybean. Imaki M, et al. **Nippon Eiseigaku Zasshi** 1989 Aug;44(3):714–8

The digestibility of cell-wall polysaccharides from wheat (bran or whole grain), soybean meal, and white lupin meal in cockerels, muscovy ducks, and rats. Carré B, et al. **Poult Sci** 1990 Apr;69(4):623–33

Effect of oligosaccharide-free soybean meal on true metabolizable energy and fiber digestion in adult roosters. Coon CN, et al. **Poult Sci** 1990 May;69(5):787–93

Tallow and the time capsule: Claude Bernard's discovery of the pancreatic digestion of fat. de Romo AC. **Pubbl Sta Zool Napoli [II]** 1989;11(2):253–74

An evaluation of the method used in digestibility estimations of a dietary ingredient and comparisons on external and internal markers, and time of faeces collection in digestibility studies in the fish Oreochromis aureus (Steindachner). De Silva SS, et al. **Reprod Nutr Dev** 1990; 30(2):215–26

Ostertagia ostertagi infection in the calf: effects of a trickle challenge on the hormonal control of digestive and metabolic function. Fox MT, et al. **Res Vet Sci** 1989 Nov; 47(3):299–304

Appetite, digestive efficiency, feed utilization and carcass evaluation of housed calves naturally infected with gastrointestinal nematodes. Bell SL, et al. **Vet Parasitol** 1990 Jan;34(4):323–33

Rumination in pregnant ewes. Stafford KJ, et al. **Zentralbl Veterinarmed [A]** 1990 Mar;37(2):154–6

Cleavage of zearalenone-glycoside, a "masked" mycotoxin, during digestion in swine. Gareis M, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):236–40

Chicken egg antibodies for prophylaxis and therapy of infectious intestinal diseases. II. In vitro studies on gastric and enteric digestion of egg yolk antibodies specific against pathogenic Escherichia coli strains. Schmidt P, et al. **Zentralbl Veterinarmed [B]** 1989 Oct;36(8):619–28

[Study of gastric elimination of ornidazole after intravenous administration in patients undergoing digestive surgery] Diquet B, et al. **Therapie** 1990 Jul-Aug;45(4):307–10 (Eng. Abstr.) (Fre)

[Prececal crude protein digestion and amino acid absorption during the use of ileorectostomy and fistula technic in swine] Hennig U, et al. **Arch Exp Veterinarmed** 1990; 44(1):35–44 (Eng. Abstr.) (Ger)

[The effect of a reduced drinking water dose on the digestibility of nutrients and several metabolic parameters in sheep. 2. N-balance, water balance and several physiologic parameters] Bergner H, et al. **Arch Tierernahr** 1989 Aug-Sep;39(8-9):741–50 (Eng. Abstr.) (Ger)

[The effect of pregnancy and lactation on digestive processes in sheep] Dittrich A, et al. **Arch Tierernahr** 1989 Jun; 39(6):563–73 (Eng. Abstr.) (Ger)

[The effect of different high doses of field peas on the digestibility of their crude nutrients in colostomized laying hens] Gruhn K, et al. **Arch Tierernahr** 1990 Apr; 40(4):297–303 (Eng. Abstr.) (Ger)

[The effect of different high levels of soy extract pellets in the ration on the digestibility of crude nutrients, basic and sulfur-containing amino acids of wheat in colostomized laying hybrids] Gruhn K, et al. **Arch Tierernahr** 1989 Dec; 39(12):1045–52 (Eng. Abstr.) (Ger)

[The prececal and total intestinal nutrient digestibility and amino acid absorption of food yeasts in swine] Heinz T, et al. **Arch Tierernahr** 1989 Dec;39(12):1007–19 (Eng. Abstr.) (Ger)

[Methodical influences on the determination of prececal digestibility] Kesting U, et al. **Arch Tierernahr** 1989 Oct; 39(10):823–31 (Eng. Abstr.) (Ger)

[Principles of physiologic control in the upper gastrointestinal tract] Fried M. **Schweiz Rundsch Med Prax** 1989 Aug 22; 78(34):889–90 (0 ref.) (Ger)

[Digestive and absorptive capacity in the elderly] Masamune O. **Rinsho Byori** 1989 Jun;37(6):629–33 (Jpn)

[Kinetic studies of leucine flux during non-absorptive phase of digestion in rats] Mal'tsev GIu, et al. **Biull Eksp Biol Med** 1990 Jan;109(1):11–3 (Eng. Abstr.) (Rus)

[A morphologic analysis of digestion in Leptopsylla segnis (Siphonaptera: Leptopsyllidae) fleas] Filimonova SA. **Parazitologiia** 1989 Nov-Dec;23(6):480–8 (Eng. Abstr.) (Rus)

[Superoxide dismutase activity of digestive secretions] Pereslegina IA. **Ukr Biokhim Zh** 1990 Mar-Apr;62(2):53–8 (Eng. Abstr.) (Rus)

[Features of the digestive function of the intestines during intake of nontraditional protein] Sokolova AG, et al. **Vopr Pitan** 1989 Nov-Dec;(6):39–42 (Eng. Abstr.) (Rus)

[Study of the digestion and absorption of isolated krill proteins] Sokolova AG. **Vopr Pitan** 1989 Sep-Oct;(5):61–2 (Rus)

[What role does the metabolic effect have after changing to a lacto-vegetarian diet?] Holmqvist O. **Lakartidningen** 1990 Feb 28;87(9):620 (Swe)

DRUG EFFECTS

Lack of effect of purified cellulose and hemicellulose on the digestion and the intestinal absorption of dietary lipids in the rat. Borel P, et al. **Ann Nutr Metab** 1989;33(5):237–45

Kinetics and balance of glucose and galactose appearance in the portal blood after intake of lactose or hydrolysed lactose in conscious pigs. Rérat A, et al. **Ann Nutr Metab** 1990;34(2):119–32

Enzyme supplementation of a poultry diet containing rye and wheat. Pettersson D, et al. **Br J Nutr** 1989 Jul; 62(1):139–49

Effect of antiulcerogenic drug, ranitidine, on intestinal absorption and digestive functions in mice. Gill M, et al. **Indian J Exp Biol** 1989 Aug;27(8):721–4

Effect of cimetidine on intestinal absorption & digestive functions in mice. Gill M, et al. **Indian J Med Res** 1990 Apr;92:109–14

Intestinal acid flow, dry matter, starch and protein digestibility and amino acid absorption in beef cattle fed a high-concentrate diet with defluorinated rock phosphate, limestone or magnesium oxide. Christiansen ML, et al. **J Anim Sci** 1990 Jul;68(7):2105–18

Effects of elevated iodine in milk replacer on calf performance. Jenkins KJ, et al. **J Dairy Sci** 1990 Mar; 73(3):804–7

Ionophores and nutrient digestion and absorption in ruminants. Spears JW. **J Nutr** 1990 Jun;120(6):632–8 (74 ref.)

Effect of T-2 toxin on feed intake, digestion and pathology of rabbits. Fekete S, et al. **Lab Anim Sci** 1989 Nov; 39(6):603–6

[Opioid peptides and digestive activity. Recent directions of physiopathology] Grassi M, et al. **Clin Ter** 1989 Sep 15; 130(5):277–84 (18 ref.) (Eng. Abstr.) (Ita)

[Digestive transport processes in the small intestine of rats under the influence of naftusia mineral water] Vavilova GL, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan-Feb;(1):50–2 (Rus)

PHYSIOLOGY

Relationship between interdigestive gallbladder emptying, plasma motilin and migrating motor complex in man. Nilsson BI, et al. **Acta Physiol Scand** 1990 May;139(1):55–61

Development of porcine digestive enzymes with special reference to ribonuclease. Baintner K, et al. **Acta Vet Hung** 1989;37(3):281–8

Development of ovine digestive enzymes with special reference to ribonuclease. Baintner K, et al. **Acta Vet Hung** 1989;37(3):289–98

Recent findings and future perspectives of digestive physiology in rabbits: a review. Fekete S. **Acta Vet Hung** 1989;37(3):265–79 (107 ref.)

Digestibility of starch: incomplete gelatinization or retrogradation? [letter; comment] van Amelsvoort JM, et al. **Am J Clin Nutr** 1989 Dec;50(6):1472–3 Comment on: Am J Clin Nutr 1989 Feb;49(2):337–44.

Myoelectric activity of the ileum, cecum, and right ventral colon in ponies during interdigestive, nonfeeding, and digestive periods. Ross MW, et al. **Am J Vet Res** 1990 Apr;51(4):561–6

Digestion and absorption of dietary protein. Erickson RH, et al. **Annu Rev Med** 1990;41:133–9 (18 ref.)

The effect of fishmeal on the digestion of grass silage by growing cattle. Beever DE, et al. **Br J Nutr** 1990 May; 63(3):489–502

Influence of post-rumen supply of nutrients on rumen digesta load and voluntary intake of a roughage by sheep. Gherardi SG, et al. **Br J Nutr** 1989 Nov;62(3):589–99

The biological effects and digestible energy value of a sugar-beet fibre preparation in the rat. Johnson IT, et al. **Br J Nutr** 1990 Jul;64(1):187–99

Digestion of fibre polysaccharides of pea (Pisum sativum) hulls, carrot and cabbage by adult cockerels. Longstaff M, et al. **Br J Nutr** 1989 Nov;62(3):563–77

Resistance of leaf and stem fractions of tropical forage to chewing and passage in cattle. McLeod MN, et al. **Br J Nutr** 1990 Jan;63(1):105–19

Nutrient supply and growth of cattle offered straw-based diets. Ortigues I, et al. **Br J Nutr** 1989 Nov;62(3):601–19

The effect of differing types of cloth and of contamination by non-feed nitrogen on intestinal digestion estimates using porous synthetic-fibre bags in a cow. Varvikko T, et al. **Br J Nutr** 1990 Mar;63(2):221–9

Metabolism of maltitol by conventional rats and mice and germ-free mice, and comparative digestibility between maltitol and sorbitol in germ-free mice [see comments] Würsch P, et al. **Br J Nutr** 1990 Jan;63(1):7–15 Comment in: Br J Nutr 1990 Jan;63(1):5–6.

The significance of water absorption and fibre digestion in the omasum of sheep, goats and cattle. Holtenius K, et al. **Comp Biochem Physiol [A]** 1989;94(1):105–9

Digestion and absorption in the human intestine of three sugar alcohols. Beaugerie L, et al. **Gastroenterology** 1990 Sep;99(3):717–23

Effect of vitamin A deficiency on rat intestinal digestive & absorptive functions. Chauhan MJ, et al. **Indian J Med Res** 1989 Dec;90:448–52

Temporal changes in carbohydrate digestive capacity and growth rate of piglets in response to glucocorticoid administration and weaning age. Chapple RP, et al. **J Anim Sci** 1989 Nov;67(11):2985–95

Forage intake, ruminal dry matter disappearance, and ruminal blood volatile fatty acids for steers in 18 and 32 degrees C temperatures. Martz FA, et al. **J Dairy Sci** 1990 May; 73(5):1280–7

Assessment of the motor functions of the gallbladder. Lanzini A, et al. **J Hepatol** 1989 Nov;9(3):383–91 (31 ref.)

Diurnal change in digestion and absorption of sucrose in vivo in rats. Hara E, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Dec;35(6):667–71

Influence of duodenal digesta composition on abomasal outflow, motility and small intestinal transit time in sheep. Gregory PC, et al. **J Physiol (Lond)** 1989 Jun;413:415–31

Satiety in the obese Zucker rat: effects of carbohydrate type and acarbose (Bay g 5421). Maggio CA, et al. **Physiol Behav** 1989 Sep;46(3):557–60

Feeding and digestive problems in horses. Physiologic responses to a concentrated meal. Clarke LL, et al. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):433–50 (50 ref.)

[Digestion of pea and soya proteins in the preruminant calf. II. Apparent digestibility at the end of the ileum and the digestive tube] Nunes do Prado I, et al. **Reprod Nutr Dev** 1989;29(4):425–39 (Eng. Abstr.) (Fre)

[Digestion of pea and soya proteins in the preruminant calf. I. Circulating levels of nutrients, antibody formation and intestinal permeability to macromolecules] Nunes do Prado I, et al. **Reprod Nutr Dev** 1989;29(4):413–24 (Eng. Abstr.) (Fre)

[The clinical significance of hormone regulation of exocrine pancreas secretion in the human] Beglinger C. **Z Gastroenterol** 1989 Dec;27 Suppl 3:27–8 (23 ref.) (Ger)

[Functional relation of the stomach and pancreas] Friess H, et al. **Z Gastroenterol** 1989 Dec;27 Suppl 3:13–6 (38 ref.) (Ger)

[Adaptation of the pancreas following resection of the small intestine influenced by gastrointestinal hormones] Glasbrenner B, et al. **Z Gastroenterol** 1989 Dec;27 Suppl 3:22–4 (24 ref.) (Ger)

[Regulation of pancreas function by the proximal and distal small intestine] Layer P, et al. **Z Gastroenterol** 1989 Dec; 27 Suppl 3:19–21 (25 ref.) (Ger)

[Relation of interdigestive gastrointestinal motility and pancreas–bile secretion] Malfertheiner P. **Z Gastroenterol** 1989 Dec;27 Suppl 3:10–2 (32 ref.) **(Ger)**

[Food controlled pancreatic secretion and adaptation] Schusdziarra V. **Z Gastroenterol** 1989 Dec;27 Suppl 3:29–31 (28 ref.) **(Ger)**

[Emotional behavior and correlation of the processes of membrane and cavity digestion in rats] Krakovskiĭ ME, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):824–8 (Eng. Abstr.) **(Rus)**

[Digestive enzyme activity during immobilization stress and its pharmacologic correction with adrenoblockaders] Shepotinovskiĭ VI, et al. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):49–52 (Eng. Abstr.) **(Rus)**

[Digestive and transport processes of the small intestine in ulcerative colitis] Zlatkina AR, et al. **Sov Med** 1990;(1):6–9 **(Rus)**

[The normal digestion of protein–containing food products by gastric juice and in pathology of the gastrointestinal tract] Gerasimov VK, et al. **Ter Arkh** 1989;61(11):62–4 (Eng. Abstr.) **(Rus)**

[The digestive processes of the stomach and small intestine in complicated peptic ulcer] Grushka VA. **Vrach Delo** 1989 Oct;(10):20–2 (Eng. Abstr.) **(Rus)**

[The gastrin–producing function of the stomach and intestinal digestion in patients with peptic ulcer] Iarovaia AZ. **Vrach Delo** 1989 Aug;(8):68–70 (Eng. Abstr.) **(Rus)**

[The functional topography of the digestive enzymes in the gastrointestinal tract and in nondigestive organs (liver, kidney) in the ontogeny of rats and the effect of inducing agents] Nikitina AA, et al. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr;26(2):273–6 (Eng. Abstr.) **(Rus)**

[The enzyme systems of the cavitary and membrane hydrolysis of foodstuffs in the ontogeny of Karakul sheep] Rakhimov KR, et al. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug; 25(4):460–6 (Eng. Abstr.) **(Rus)**

DIGESTIVE SYSTEM

[Enterosorption as a method of detoxification (review of the literature)] Mamyrbaev AM, et al. **Gig Tr Prof Zabol** 1990; (3):40–3 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

Orthotopic transplantation of the liver in children with biliary atresia and polysplenia syndrome: report of two cases. Hoffman MA, et al. **J Pediatr Surg** 1989 Oct;24(10):1020–2

[Coexistence of polycystic kidney and other developmental defects. Analysis of autopsy specimens 1953–1985] Brykalska A, et al. **Pediatr Pol** 1989 Oct–Dec; 64(10–12):619–23 (Eng. Abstr.) **(Pol)**

ANALYSIS

[Cellular localization, half–life, and secretion of peptide YY] Lluis F, et al. **Rev Esp Fisiol** 1989 Dec;45(4):377–84 (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

[Angiodysplasias in the digestive tract and associated cardiovascular diseases (published erratum appears in Ned Tijdschr Geneeskd 1989 Sep 23;133(38):1912)] Noach LA, et al. **Ned Tijdschr Geneeskd** 1989 Aug 26;133(34):1696–700 (41 ref.) (Eng. Abstr.) **(Dut)**

[Digestive arterial bypass. Long–term clinical results] Courbier R, et al. **J Chir (Paris)** 1990 Mar;127(3):129–35 (Eng. Abstr.) **(Fre)**

[Effect of cardiac glycosides on blood circulation and oxygen consumption of the stomach, intestines and pancreas] Pawlik WW, et al. **Folia Med Cracov** 1988;29(3–4):127–40 (Eng. Abstr.) **(Pol)**

[Characteristics of the reconstruction of collateral pathways after surgical decompression of the portal system] Galvoronskiĭ IV. **Arkh Anat Gistol Embriol** 1989 Oct; 97(10):39–47 (Eng. Abstr.) **(Rus)**

[Identification of blood vessels using ultrasonic flowmetry during surgery of the abdominal cavity] Ovcharenko KI, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):109–10 **(Rus)**

[Surgical treatment of high occlusion of the abdominal aorta associated with lesions of coronary, renal and visceral arteries] Spiridonov AA, et al. **Klin Khir** 1989;(7):39–43 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Gut endocrine cells of invertebrates. Endo Y, et al. **Prog Clin Biol Res** 1990;342:499–503 (25 ref.)

Endocrines of insect gut. Sehnal F, et al. **Prog Clin Biol Res** 1990;342:510–5

DRUG EFFECTS

Short–term toxic effects of 1–naphthol on the digestive gland–gonad complex of the marine prosobranch Littorina littorea (L): a light microscopic study. Cajaraville MP, et al. **Arch Environ Contam Toxicol** 1990 Jan–Feb;19(1):17–24

Trophic effects of continuous infusion of [Leu15]–gastrin–17 in the rat. Ryberg B, et al. **Gastroenterology** 1990 Jan; 98(1):33–8

Tissue response of the biliary and digestive system of rabbits after MTBE infusion into the gallbladder. Adam G, et al. **Invest Radiol** 1990 Jan;25(1):58–61

[The (patho)physiological significance of epidermal growth factor in relation to antisecretory, cytoprotective and mitogenic effects in the digestive tract] van den Hoek MC, et al. **Ned Tijdschr Geneeskd** 1989 Sep 23;133(38):1873–6 (37 ref.) **(Dut)**

[The effect of natural and synthetic antioxidants on the profile of the parietal pH of the digestive tract in rats under normal and pathologic conditions] Tsibulevskiĭ AIu, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):843–9 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

The isolation and properties of collagenolytic proteases from crab hepatopancreas. Klimova OA, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1411–20

Immunohistochemical localization of ethanol–inducible P450IIE1 in the rat alimentary tract. Shimizu M, et al. **Gastroenterology** 1990 Oct;99(4):1044–53

The role of digestive enzymes in orally induced immune tolerance. Michael JG. **Immunol Invest** 1989 Nov–Dec; 18(9–10):1049–54

Pancreatic duct obstruction in rabbits causes digestive zymogen and lysosomal enzyme colocalization. Saluja A, et al. **J Clin Invest** 1989 Oct;84(4):1260–6

GROWTH & DEVELOPMENT

Relationships of weight gain and behavior to digestive organ weight and enzyme activities in piglets. de Passillé AM, et al. **J Anim Sci** 1989 Nov;67(11):2921–9

IMMUNOLOGY

[Immunity of gut–associated lymphoid tissue and the role of the oral immunotherapy in multi–disciplinary treatment of the digestive organ cancer] Nio Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1436–8 (Eng. Abstr.) **(Jpn)**

INNERVATION

Pavlov and his neurological investigations of the viscera. Paré WP. **Ann N Y Acad Sci** 1990;597:1–13

Suppressive control of the crustacean pyloric network by a pair of identified interneurons. I. Modulation of the motor pattern. Cazalets JR, et al. **J Neurosci** 1990 Feb; 10(2):448–57

Suppressive control of the crustacean pyloric network by a pair of identified interneurons. II. Modulation of neuronal properties. Cazalets JR, et al. **J Neurosci** 1990 Feb; 10(2):458–68

METABOLISM

An immunocytochemical study on the occurrence of liver fatty–acid–binding protein in the digestive organs of rats: specific localization in the D cells and brush cells. Iseki S, et al. **Acta Anat (Basel)** 1990;138(1):15–23

A hyaline layer protein that becomes localized to the oral ectoderm and foregut of sea urchin embryos. Coffman JA, et al. **Dev Biol** 1990 Jul;140(1):93–104

Almitrine bismesylate disposition in the human digestive tract. Vidon N, et al. **Eur J Clin Pharmacol** 1989; 37(5):487–91

Distribution, release, and secretory activity of epidermal growth factor in the pancreas. Jaworek J, et al. **Int J Pancreatol** 1990 Apr;6(3):189–205

Protein F. A novel F(ab)–binding factor, present in normal liver, and largely released in the digestive tract during hepatitis. Bouvet JP, et al. **J Immunol** 1990 Aug 15; 145(4):1176–80

Energy metabolism in the digestive tract and liver of cattle: influence of physiological state and nutrition. Huntington GB. **Reprod Nutr Dev** 1990;30(1):35–47 (70 ref.)

[Location of immunoreactive leucine enkephalin in the digestive gland of the Mollusca Mizuhopecten yessoensis (Jay)] Varaksin AA, et al. **Arkh Anat Gistol Embriol** 1990 Jan;98(1):71–4 (Eng. Abstr.) **(Rus)**

[Effect of hypoxia on glycolysis in the adductor muscle and hepatopancreas of the marine mussel Mytilus galloprovincialis Lmk] Ibarguren I, et al. **Rev Esp Fisiol** 1989 Dec;45(4):349–55 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Lactobacillus succession in the piglet digestive tract demonstrated by plasmid profiling. Tannock GW, et al. **Appl Environ Microbiol** 1990 May;56(5):1310–6

Selective decontamination of the digestive tract [letter] **BMJ** 1990 Feb 17;300(6722):468–9

Selective decontamination of the digestive tract [letter; comment] **BMJ** 1990 Jan 20;300(6718):190–2 Comment on: BMJ 1989 Dec 9;299(6713):1413–4.

Selective decontamination of the gut—is it enough? [editorial; comment] Deitch EA. **Crit Care Med** 1990 Sep; 18(9):1043–4 Comment on: Crit Care Med 1990 Sep;18(9):935–9.

Reducing sepsis in severe combined acute renal and respiratory failure by selective decontamination of the digestive tract [see comments] McClelland P, et al. **Crit Care Med** 1990 Sep;18(9):935–9 Comment in: Crit Care Med 1990 Sep;18(9):1043–4.

Short–term parenteral antibiotics used as a supplement to SDD regimens. Alcock SR. **Infection** 1990;18 Suppl 1:S14–8

Infection surveillance and selective decontamination of the digestive tract (SDD) in critically ill patients—results of a controlled study. Hartenauer U, et al. **Infection** 1990;18 Suppl 1:S22–30

How to improve infection prevention by selective decontamination of the digestive tract (SDD). Stoutenbeek CP, et al. **Infection** 1990;18 Suppl 1:S10–3

Review of available trials of selective decontamination of the digestive tract (SDD). van Saene HK, et al. **Infection** 1990;18 Suppl 1:S5–9 (26 ref.)

Emergence of antibiotic–resistant bacteria during selective decontamination of the digestive tract [letter] Nau R, et al. **J Antimicrob Chemother** 1990 May;25(5):881–3

Influence of amoxycillin on microbial colonization resistance in healthy volunteers. A methodological study. Vollaard EJ, et al. **J Antimicrob Chemother** 1990 May;25(5):861–71

Selective decontamination of the digestive tract (SDD), ICU–acquired pneumonia and selection of antibiotic–resistant bacteria [letter; comment] Alcock SR, et al. **J Hosp Infect** 1990 Feb;15(2):195–7 Comment on: J Hosp Infect 1989 May;13(4):325–36.

[Principles of selective decontamination from the radiobiological point of view] Henseke P, et al. **Radiobiol Radiother (Berl)** 1990;31(3):243–6 (Eng. Abstr.) **(Ger)**

[Lactobacillus in the digestive tract and food of long–lived persons in Abkhazia] Kvasnikov EI, et al. **Mikrobiol Zh** 1984 May–Jun;46(3):11–8 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

The effects of a concurrent infection of Trichostrongylus colubriformis and Ostertagia circumcincta on calcium, phosphorus and magnesium transactions along the digestive tract of lambs. Brown MD, et al. **J Comp Pathol** 1989 Jul; 101(1):11–20

PATHOLOGY

[A morphologic study of extrapulmonary multisystemic lesions in neonatal respiratory syndrome] Maresi E, et al. **Pathologica** 1990 Jan–Feb;82(1077):1–32 (Eng. Abstr.) **(Ita)**

[Pathology of the digestive organs in patients with pulmonary tuberculosis and trematode infection] Korablev VN. **Probl Tuberk** 1989;(7):43–5 (Eng. Abstr.) **(Rus)**

[Abdominal ultrasonography in eruptive diseases] Lara J, et al. **GEN** 1988 Apr–Jun;42(2):63–5 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Active chloride transport in isolated posterior midgut of tobacco hornworm (Manduca sexta). Chao AC, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R752–61

The role of the entero–insular axis in insulin secretion. Morgan LM. **Biochem Soc Trans** 1990 Feb;18(1):101–2 (37 ref.)

Digestive Disease Week and the 91st annual meeting of the American Gastroenterological Association. May 12–18, 1990, San Antonio, Texas. Program and abstracts. **Gastroenterology** 1990 May;98(5 Pt 2):P1–88, A1–755

British Society of Gastroenterology. 1990 spring meeting. Warwick, 28–30 March. Abstracts. **Gut** 1990 May; 31(5):A589–628

[25th forum on research in hepato–gastroenterology, 14th French–language seminar on hepatology and gastroenterology, 8th national continuing education seminar on hepato–gastroenterology. Paris, 24–28 March 1990. Abstracts] **Gastroenterol Clin Biol** 1990;14(2 (Pt 2)):A1–290 **(Fre)**

[44th meeting of the German Society for Digestive and Metabolic Diseases with the Section of Gastroenterological Endoscopy. Mainz, 27–30 September 1989. Abstracts] **Z Gastroenterol** 1989 Sep;27(9):465–599 **(Ger)**

[Advances in gastroenterology 1989. 44th meeting of the German Society of Digestive and Metabolic Diseases with the Section for Gastroenterologic Endoscopy. Proceedings] **Z Gastroenterol [Verh]** 1990 Apr;25:1–170 **(Ger)**

[Proceedings of the 76th meeting of the Japanese Society of Gastroenterology. Tokyo, 29–31 March 1990. Abstracts] **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87 Suppl:423–743 **(Jpn)**

[Radioisotopes in gastroenterological diagnosis. I. Studies of the transport and motor activities of the digestive system] Jonderko K. **Pol Arch Med Wewn** 1987 Aug;78(2):97–103 (27 ref.) **(Pol)**

[Mechanism of action of circulating amino acids on the function of the digestive system] Vasilevskaia LS. **Vestn Akad Med Nauk SSSR** 1989;(9):90–6 (32 ref.) **(Rus)**

[The effect of "Sočkovac" thermo–mineral water from Grančanica on models of inflammation and models of the digestive and urogenital systems] Mujčinagić M, et al. **Med Arh** 1987;41(6):299–303 (Eng. Abstr.) **(Ser)**

[13th annual meeting of the Section on Pediatric Gastroenterology and Nutrition of the Spanish Association of Pediatrics. Tenerife, 31 May–1 June 1988. Abstracts] **An Esp Pediatr** 1989 Oct;31(4):401–14 **(Spa)**

PHYSIOPATHOLOGY

Digestive tract motor correlates of vomiting and nausea. **Lang IM. Can J Physiol Pharmacol** 1990 Feb;68(2):242–53 (61 ref.)

Changes in gastrointestinal, pancreatic, biliary, and hepatic function with aging. Altman DF. **Gastroenterol Clin North Am** 1990 Jun;19(2):227–34 (35 ref.)

RADIATION EFFECTS

Radiation injury to abdominal organs. Trott KR, et al. **Br J Radiol Suppl** 1988;22:30–2 (12 ref.)

RADIOGRAPHY

[Radiology or endoscopy as the primary research method in the study of the upper digestive tract? (editorial)] Catalano D. **Radiol Med (Torino)** 1990 Mar;79(3):149–50 **(Ita)**

[Interventional radiology of the alimentary tract] Hayashi N, et al. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3643–50 (6 ref.) (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Hepatobiliary and gastrointestinal imaging after pancreaticoduodenectomy—a comparative study on Billroth I and Billroth II reconstructions. Kotoura Y, et al. **Jpn J Surg** 1990 May;20(3):294–9

[Radioisotopes in gastroenterological diagnosis. II. Localization studies] Jonderko K. **Pol Arch Med Wewn** 1987 Aug;78(2):104–13 (33 ref.) **(Pol)**

SECRETION

Somatostatin mediates bombesin inhibition of chloride secretion by rectal gland. Silva P, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1459–63

SURGERY

Endoscopic clip-marking of lesions using the newly developed HX-3L clip. Hachisu T, et al. **Surg Endosc** 1989; 3(3):142–7

Surgery of the neonatal bovine digestive tract. Bristol DG, et al. **Vet Clin North Am Food Anim Pract** 1990 Jul; 6(2):473–93 (70 ref.)

[The occurrence of late thromboembolic complications after elective abdominal surgery] Sørensen C, et al. **Ugeskr Laeger** 1990 May 28;152(22):1586–7 (Eng. Abstr.) **(Dan)**

[X-ray computed tomography and percutaneous drainage change the indications for reoperation after digestive surgery] Werner P, et al. **Ann Fr Anesth Reanim** 1990; 9(3):261–4 (Eng. Abstr.) **(Fre)**

[A study of the tolerance of a new lipid emulsion in digestive system surgery in children] Ducloux B, et al. **Cah Anesthesiol** 1989 Oct;37(6):443–5 **(Fre)**

[Monofilaments in digestive system surgery] Bresadola F, et al. **Ann Ital Chir** 1989 Jul–Aug;60(4):321–7; discussion 328 (Eng. Abstr.) **(Ita)**

[Foreign bodies in the alimentary tract. Surgical treatment] Riccio P, et al. **Minerva Chir** 1990 Jan;45(1–2):63–6 (9 ref.) (Eng. Abstr.) **(Ita)**

[Viscerosynthesis—use of mechanical sutures in digestive tract surgery] Maksimović V, et al. **Vojnosanit Pregl** 1990 Mar–Apr;47(2):91–5 (Eng. Abstr.) **(Scr)**

DIGESTIVE SYSTEM DISEASES

Abstracts of the 7th bilateral Medical Week on "Problems in Gastroenterology". 28 November–3 December 1988. Abstracts. **Acta Gastroenterol Belg** 1988 Nov–Dec; 51(6):A1–38

Belgian Week of Gastroenterology 1990. March 8–10, 1990, Brussels. Abstracts. **Acta Gastroenterol Belg** 1990 Jan–Feb; 53(1):43–157

Digestive Disease Week and the 91st annual meeting of the American Gastroenterological Association. May 12–18, 1990, San Antonio, Texas. Program and abstracts. **Gastroenterology** 1990 May;98(5 Pt 2):P1–88, A1–755

Reports from the NIH DDDN. Research support from the Division of Digestive Diseases and Nutrition. Hoofnagle JH, et al. **Gastroenterology** 1990 Jan;98(1):237–8

Reports from the NIH DDDN. Research training in digestive diseases. Murphy D, et al. **Gastroenterology** 1990 Feb; 98(2):529–30

Abstracts submitted to the American Society for Gastrointestinal Endoscopy. May 14–16, 1990, San Antonio, Texas. **Gastrointest Endosc** 1990 Mar–Apr; 36(2):185–233

The British Society of Gastroenterology. 1989 annual general meeting. Dublin, 27–29 September 1989. **Gut** 1989 Oct; 30(10):A1442–517

British Society of Gastroenterology. 1990 spring meeting. Warwick, 28–30 March. Abstracts. **Gut** 1990 May; 31(5):A589–628

Abstracts of papers presented at the 30th annual conference of the Indian Society of Gastroenterology. Bangalore, October 5–8, 1989. **Indian J Gastroenterol** 1989 Oct;8(4 Suppl):A1–64

European Society for Paediatric Gastroenterology and Nutrition (ESPGAN) and North American Society for Paediatric Gastroenterology (NASPGN). Abstracts presented at the third joint meeting. Amsterdam, The Netherlands, May 23–26, 1990. **Pediatr Res** 1990 May; 27(5):529–45

[25th forum on research in hepato-gastroenterology, 14th French-language seminar on hepatology and gastroenterology, 8th national continuing education seminar on hepato-gastroenterology. Paris, 24–28 March 1990. Abstracts] **Gastroenterol Clin Biol** 1990;14(2 (Pt 2)):A1–290 **(Fre)**

[44th meeting of the German Society for Digestive and Metabolic Diseases with the Section of Gastroenterological Endoscopy. Mainz, 27–30 September 1989. Abstracts] **Z Gastroenterol** 1989 Sep;27(9):465–599 **(Ger)**

[Advances in gastroenterology 1989. 44th meeting of the German Society of Digestive and Metabolic Diseases with the Section for Gastroenterologic Endoscopy. Proceedings] **Z Gastroenterol [Verh]** 1990 Apr;25:1–170 **(Ger)**

[Proceedings of the 76th meeting of the Japanese Society of Gastroenterology. Tokyo, 29–31 March 1990. Abstracts] **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87 Suppl:423–743 **(Jpn)**

[13th annual meeting of the Section on Pediatric Gastroenterology and Nutrition of the Spanish Association of Pediatrics. Tenerife, 31 May–1 June 1988. Abstracts] **An Esp Pediatr** 1989 Oct;31(4):401–14 **(Spa)**

[Abstracts of papers presented at the national meeting of the Mexican Association of Gastroenterology 1989] **Rev Gastroenterol Mex** 1989 Oct–Dec;54(4):256–342 **(Spa)**

BLOOD

Oxygen derived free radicals in patients with chronic pancreatic and other digestive diseases. Basso D, et al. **J Clin Pathol** 1990 May;43(5):403–5

[The importance of the determination of primary bile acids in diseases of the digestive tract] Fučíková E, et al. **Vnitr Lek** 1989 Sep;35(9):885–9 (Eng. Abstr.) **(Cze)**

[Basal plasma cholecystokinin levels in digestive diseases—comparison between CCK-8 like bioactivity by bioassay and CCK immunoreactivity by radioimmunoassay] Nakamura R, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Nov;86(11):2572–8 (Eng. Abstr.) **(Jpn)**

[Use of the leukocytic index of the blood for evaluating the severity of toxemia] Karabanov GN. **Vestn Khir** 1989 Apr; 142(4):146–9 (44 ref.) **(Rus)**

CHEMICALLY INDUCED

Environmental diseases of the digestive system. Rubin E, et al. **Med Clin North Am** 1990 Mar;74(2):413–24 (54 ref.)

[Digestive injuries induced by the ingestion of ammonia (letter)] Gossot D, et al. **Gastroenterol Clin Biol** 1990; 14(2):191–2 **(Fre)**

CLASSIFICATION

[Terminologic tracking and classification of alimentary diseases] Śmolianskiĭ BL. **Vopr Pitan** 1989 Sep–Oct;(5):23–8 (49 ref.) **(Rus)**

COMPLICATIONS

Journal of the American Medical Association, Volume 3, 1931. The relationship of disorders of the digestive tract to anemia [classical article] Castle WB, et al. **Nutr Rev** 1989 Sep;47(9):262–6

[Malignant anguilluliasis with digestive localization in an immunosuppressed patient (letter)] Chabannon C, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1090–1 **(Fre)**

[Pathology of the digestive organs and systemic endotoxinemia] Permiakov NK, et al. **Arkh Patol** 1989; 51(12):74–9 (46 ref.) (Eng. Abstr.) **(Rus)**

[Risk factors of the development of male infertility during the pre-pubertal and pubertal periods] Iunda IF, et al. **Pediatriia** 1990;(3):110–1 **(Rus)**

[Diabetes mellitus and acute surgical diseases of the abdominal organs] Nartsissov TV, et al. **Sov Med** 1989; (9):49–52 (67 ref.) **(Rus)**

[Combined pathology in the practice of physicians] Petrov MN. **Sov Med** 1990;(2):50–3 **(Rus)**

DIAGNOSIS

Value of diagnostic upper endoscopy preceding percutaneous gastrostomy. Wolfsen HC, et al. **Am J Gastroenterol** 1990 Mar;85(3):249–51

Gastrointestinal ultrasonography. **Clin Diagn Ultrasound** 1988;23:1–298

Gastrointestinal tract. **Curr Opin Radiol** 1989 Jun;1(1):117–37

Cross-sectional imaging: present and future. Margulis AR. **Curr Opin Radiol** 1989 Jun;1(1):101–6 (14 ref.)

Sonography of the gastrointestinal tract. Rao BK, et al. **Curr Opin Radiol** 1990 Apr;2(2):207–12 (25 ref.)

Ethics and training in digestive endoscopy [editorial] Gibinski K. **Endoscopy** 1989 Sep;21(5):232–3

The changing face of gastrointestinal radiology. Margulis AR, et al. **Semin Roentgenol** 1989 Oct;24(4):231–8 (17 ref.)

[Anesthetic technics in digestive endoscopy] Bigard MA, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):651–3 (13 ref.) **(Fre)**

[Sedation in digestive endoscopy] Devalois B, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):679–86 (54 ref.) **(Fre)**

[Echo-endoscopy: a new technic in the study of the digestive tract] Etienne M, et al. **Rev Med Liege** 1990 Apr; 45(4):157–63 **(Fre)**

[An analysis of the limiting factors in the emergency endoscopic diagnosis of the upper digestive tract in the bleeding portal hypertension patient] Ventura P, et al. **Minerva Med** 1989 Aug;80(8):845–6 **(Ita)**

[Clinical use of echotomography with target aspiration biopsy and urgent cytological examination] Bogin IuN, et al. **Klin Med (Mosk)** 1990 Feb;68(2):94–7 (Eng. Abstr.) **(Rus)**

[Difficulties in the differential diagnosis between a series of infectious diseases and food poisoning] Brodov LE, et al. **Klin Med (Mosk)** 1989 Jul;67(7):131–5 **(Rus)**

[Complaints related to digestive organs in practically healthy persons] Udod VM, et al. **Vestn Khir** 1990 Mar;144(3):20–3 (Eng. Abstr.) **(Rus)**

[Diagnostic imaging in digestive pathology (editorial)] Varas Lorenzo MJ. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):593–4 **(Spa)**

DIET THERAPY

[Clinical and metabolic aspects of using dietary fibers] Dubinin AV, et al. **Klin Med (Mosk)** 1990 Jan;68(1):15–21 (16 ref.) **(Rus)**

[The dietetic correction of disorders in the digestive functions in youthful obesity] Popova IuP, et al. **Vopr Pitan** 1990 Mar–Apr;(2):30–3 (Eng. Abstr.) **(Rus)**

[Diet therapy of patients with digestive diseases working in industrial production] Gorb GD, et al. **Vrach Delo** 1989 Sep;(9):101–3 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Perspectives in gastroenterology. Proceedings of Somatostatin Analogues—Peptide Therapy in Action Symposium. January 10th, 1989, London. **Digestion** 1990; 45 Suppl 1:45–87

Is antibacterial therapy against Campylobacter pylori useful in the treatment of indigestion and chronic peptic ulceration? Talley NJ, et al. **Trends Pharmacol Sci** 1989 Jan;10(1):36–40 (32 ref.)

[Application and mechanism of radix et rhizoma rhei in treating diseases of the digestive system] Zhou Z. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):501–3, 512 (45 ref.) (Eng. Abstr.) **(Chi)**

[Use of calcium channel blockers in gastroenterology] Markiewicz A, et al. **Pol Tyg Lek** 1988 Dec 19–26; 43(51–52):1679–83 **(Pol)**

[Pancreatic preparations—their use and standardization] Pietrzak J. **Wiad Lek** 1990 Apr 1;43(7):264–7 (30 ref.) **(Pol)**

[Drug therapy of major gastroenterologic diseases] Ryss ES, et al. **Sov Med** 1989;(11):37–41 **(Rus)**

EPIDEMIOLOGY

The gastrointestinal manifestations of AIDS. Edwards P, et al. **Aust N Z J Med** 1990 Apr;20(2):141–8

[Analysis of morbidity among adolescents in rural areas] Maksimenko LL. **Sov Zdravookhr** 1990;(3):40–2 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Abdominal catastrophes and other unusual events in continuous ambulatory peritoneal dialysis patients [see comments] Steiner RW, et al. **Am J Kidney Dis** 1990 Jan; 15(1):1–7 (45 ref.) Comment in: Am J Kidney Dis 1990 Jul;16(1):86–7.

Aphthous ulceration of the gastrointestinal tract in patients with the acquired immunodeficiency syndrome (AIDS). Bach MC, et al. **Ann Intern Med** 1990 Mar 15;112(6):465–7

Symptoms of upper gastrointestinal dysfunction in Duchenne muscular dystrophy: case-control study. Jaffe KM, et al. **Arch Phys Med Rehabil** 1990 Sep;71(10):742–4

Changes in gastrointestinal, pancreatic, biliary, and hepatic function with aging. Altman DF. **Gastroenterol Clin North Am** 1990 Jun;19(2):227–34 (35 ref.)

[Alcoholic lesions of the digestive system] Brailski Kh. **Vutr Boles** 1989;28(4):12–8 **(Bul)**

[Digestive system manifestations in Steinert's disease. Analysis of 19 cases of which 10 with digestive symptoms] De Koninck X, et al. **Acta Gastroenterol Belg** 1990 Jan–Feb; 53(1):3–15 (Eng. Abstr.) **(Fre)**

[Severe digestive manifestation of rheumatoid purpura. Retrospective study of 19 cases in children] Colomb V, et al. **Arch Fr Pediatr** 1990 Jan;47(1):9–12 (Eng. Abstr.) **(Fre)**

[Digestive involvement in AIDS] René E. **Presse Med** 1989 Oct 14;18(33):1657–62 (50 ref.) (Eng. Abstr.) **(Fre)**

[Platelet activating factor (PAF) and its inhibitors] Rydzewska G, et al. **Pol Arch Med Wewn** 1988 Jul; 80(1):36–43 (40 ref.) **(Pol)**

[Digestive manifestations during systemic scleroderma] Gane S, et al. **Rev Med Interna [Med Interna]** 1989 Nov–Dec; 41(6):515–20 (Eng. Abstr.) **(Rum)**

[The life style of children with digestive diseases living in rural areas] Kamaev IA, et al. **Gig Sanit** 1989 Sep;(9):37–9 **(Rus)**

[Changes in the digestive organs in patients with chronic blood circulation insufficiency: specific features of diagnosis and treatment] Loginov AS, et al.

Kardiologiia 1989 Nov;29(11):83–7 **(Rus)**
[Methodological aspects of the study of risk factors of non–infectious diseases in children] Brzhezovskiĭ MM. **Pediatriia** 1990;(3):67–72 **(Rus)**
[Amyloidosis lesions of the digestive organs in patients with tuberculosis and chronic nonspecific lung diseases] Mazur PE. **Probl Tuberk** 1989;(11):46–9 (Eng. Abstr.) **(Rus)**
[The role of mental and social factors in the development of digestive organ diseases in young people] Gotsuliak OF. **Vrach Delo** 1989 Oct;(10):18–20 (Eng. Abstr.) **(Rus)**

GENETICS

[Possibilities of using genealogical analysis in the screening of children for detection of risk factors] Ishkabulov DI, et al. **Pediatriia** 1990;(3):81–3 **(Rus)**

IMMUNOLOGY

[Characteristics of polymorphic variants of the 3d component od the complement system. Association of C3F with various diseases] Rak K. **Pol Arch Med Wewn** 1988 Jul; 80(1):28–35 (40 ref.) **(Pol)**
[The level of immunoglobulins in the blood serum of patients with chronic diseases of the gastrointestinal system] Kanishchev PA, et al. **Lab Delo** 1989;(8):51–3 (Eng. Abstr.) **(Rus)**

METABOLISM

[Cholesterol and lipids in gastroenterology. A symposium. 23 April 1988] **Acta Gastroenterol Belg** 1988 Nov–Dec; 51(6):459–524 **(Fre)**
[Free radicals in digestive diseases] Yoshikawa T, et al. **Nippon Ronen Igakkai Zasshi** 1990 Mar;27(2):155–60 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Various problems related to zinc metabolism in the body] Brzozowski R, et al. **Pol Arch Med Wewn** 1988 Aug–Sep; 80(2–3):162–8 (32 ref.) **(Pol)**
[Studies of the cause of increased calciuria in patients with chronic diseases of the digestive system during ultraviolet irradiation of the body to supplement vitamin D deficiency] Marcinowska–Suchowierska E, et al. **Pol Arch Med Wewn** 1988 Apr;79(4):200–6 (Eng. Abstr.) **(Pol)**
[Use of synthesis of vitamin D by the skin as a method of supplementation in patients with chronic diseases of the digestive system] Marcinowska–Suchowierska E, et al. **Pol Arch Med Wewn** 1987 Aug;78(2):73–80 (Eng. Abstr.) **(Pol)**
[Energy expenditures in diseases of the digestive organs] Litnitskiĭ VI, et al. **Voen Med Zh** 1989 Dec;(12):34–6 **(Rus)**

PATHOLOGY

[Endoscopic ultrasonography of the digestive tract] Palazzo L, et al. **Presse Med** 1989 Oct 28;18(35):1748–52 (Eng. Abstr.) **(Fre)**
[Multiple biliodigestive fistulae] Khatsko VV. **Klin Khir** 1989; (9):58 **(Rus)**

PHYSIOPATHOLOGY

Disorders of the digestive system in the elderly. Shamburek RD, et al. **N Engl J Med** 1990 Feb 15;322(7):438–43 (87 ref.)
[Digestive motility. Symposium. Vienna, 27 January 1990] **Z Gastroenterol** 1990 Apr;28 Suppl 1:1–97 **(Ger)**
[The effect of natural and synthetic antioxidants on the profile of the parietal pH of the digestive tract in rats under normal and pathologic conditions] Tsibulevskiĭ AIu, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):843–9 (Eng. Abstr.) **(Rus)**
[Pancreatic disorders in children] Mazurin AV, et al. **Pediatriia** 1989;(8):79–84 **(Rus)**

PREVENTION & CONTROL

Selective decontamination of the digestive tract: risks and benefits. Boogaerts MA. **Acta Clin Belg** 1989;44(2):83–90 (17 ref.)
[Value of the diagnosis of premorbid conditions of the digestive system in the promotion of a healthy life style] Mizin VT. **Gig Sanit** 1989 Sep;(9):34–7 **(Rus)**
[Activities of a student medical team in the mass screening of a rural population] Cherkas VIa, et al. **Sov Zdravookhr** 1989;(7):36–7 **(Rus)**

PSYCHOLOGY

[The psychosomatic dimension in digestive diseases] Bonfils S. **Rev Med Suisse Romande** 1990 Jun;110(6):499–500 **(Fre)**

RADIOGRAPHY

[X-ray symptomatology and differential diagnosis of functional obstruction of the digestive tract in children induced by birth injuries of the spine and spinal cord] Michailov MK, et al. **Radiol Diagn (Berl)** 1989;30(6):669–74 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

[Radioisotopes in gastroenterological diagnosis. II. Localization studies] Jonderko K. **Pol Arch Med Wewn** 1987 Aug;78(2):104–13 (33 ref.) **(Pol)**
[The importance of esophagoscintigraphy for assessing esophageal function in patients with digestive organ diseases] Shishkina VV, et al. **Vrach Delo** 1990 Jun; (6):57–60 (Eng. Abstr.) **(Rus)**

RADIOTHERAPY

[Effect of intracorporeal laser irradiation of the blood on the function of the cardiovascular system in patients with suppurative–inflammatory diseases] Grigorash GA, et al. **Klin Khir** 1990;(1):12–4 (Eng. Abstr.) **(Rus)**
[Intravascular laser irradiation of the blood] Gamaleia NF, et al. **Vestn Khir** 1989 Apr;142(4):143–6 (33 ref.) **(Rus)**

SURGERY

Papers of the Society for Surgery of the Alimentary Tract. 30th annual meeting. Washington, D.C., May 16–17, 1989. **Am J Surg** 1990 Jan;159(1):1–187
Surgery and Salmonella [letter; comment] **BMJ** 1990 Apr 14;300(6730):1016 Comment on: BMJ 1990 Mar 3;300(6724):552–3.
Surgery and salmonella [see comments] Mosley JG, et al. **BMJ** 1990 Mar 3;300(6724):552–3 (15 ref.) Comment in: BMJ 1990 Apr 14;300(6730):1016.
[The occurrence of late thromboembolic complications after elective abdominal surgery] Sørensen C, et al. **Ugeskr Laeger** 1990 May 28;152(22):1586–7 (Eng. Abstr.) **(Dan)**
[Minimal gastrostomy: an alternative for postoperative stomach drainage] Opheide J, et al. **Acta Chir Belg** 1989 Jul–Aug;89(4):196–200 (Eng. Abstr.) **(Dut)**
[Hemostasis in digestive surgery] Hautefeuille P. **Ann Chir** 1990;44(5):331 **(Fre)**
[Nalbuphine versus pentazocine in the period following surgery of the digestive system in patients with cardiovascular disease] de la Coussaye JE, et al. **Can Anesthesiol** 1989 Dec;37(8):565–70 **(Fre)**
[Study of gastric elimination of ornidazole after intravenous administration in patients undergoing digestive surgery] Diquet B, et al. **Therapie** 1990 Jul–Aug;45(4):307–10 (Eng. Abstr.) **(Fre)**
[Geriatric digestive surgery. An analysis of 163 cases] Desrosiers J, et al. **Union Med Can** 1989 Mar–Apr; 118(2):75–9 (Eng. Abstr.) **(Fre)**
[Identification of blood vessels using ultrasonic flowmetry during surgery of the abdominal cavity] Ovcharenko KI, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):109–10 **(Rus)**
[Analysis of mortality in acute diffuse peritonitis] Bondarev VI, et al. **Klin Khir** 1990;(1):21–3 (Eng. Abstr.) **(Rus)**
[Eventration after emergency laparotomy] Butsenko VN, et al. **Klin Khir** 1990;(4):1–4 (Eng. Abstr.) **(Rus)**
[Prevention and treatment of purulent complications after emergency surgery] Butsenko VN, et al. **Klin Khir** 1990; (4):40–2 (Eng. Abstr.) **(Rus)**
[Simultaneous surgical interventions in surgical practice] Khamidov AI, et al. **Klin Khir** 1990;(1):50–2 (Eng. Abstr.) **(Rus)**
[Comparative characteristics of the exudate elements of suppurative wounds in their treatment and stimulation of the reparative process with a powder–like composition with collagen base] Mamedov IM, et al. **Klin Khir** 1990; (1):8–10 (Eng. Abstr.) **(Rus)**
[Various problems of the prevention of suppurative–inflammatory complications after surgery of the abdominal organs] Podil'chak MD, et al. **Klin Khir** 1990;(1):60–3 (44 ref.) **(Rus)**
[Acute postoperative disorders of gastric emptying] Zemskov VS, et al. **Klin Khir** 1989;(8):73–5 **(Rus)**
[Possibilities of early detection of postoperative pulmonary complications by evaluating the functional state of the autonomic nervous system] Briskin BS, et al. **Klin Med (Mosk)** 1989 Nov;67(11):97–100 **(Rus)**
[Endoscopic retrograde cholangiopancreatography in surgery] Lutsevich EV, et al. **Sov Med** 1989;(11):68–71 **(Rus)**
[Clinical evaluation of the effectiveness of acupuncture in surgical patients] Badarchin D, et al. **Vestn Khir** 1989 Aug; 144(8):125–7 **(Rus)**
[Surgical treatment of postoperative median hernia of the abdominal wall] Khriachkov VV, et al. **Vestn Khir** 1989 Sep;143(9):113–4 **(Rus)**
[Ways of reducing postoperative mortality at a department of sanitary aviation] Kulemin VV, et al. **Vestn Khir** 1989 Aug;144(8):128–9 **(Rus)**
[Tubal feeding in surgery] Liashchenko IuN. **Vestn Khir** 1989 Jul;143(7):132–7 (46 ref.) **(Rus)**
[Tactics in the treatment of subdiaphragmatic abscesses] Malkova SK. **Vestn Khir** 1989 Jun;142(6):85–8 (Eng. Abstr.) **(Rus)**
[Incidence of intra–abdominal complications and relaparotomies in the early postoperative period] Zavernyl LG, et al. **Vestn Khir** 1990 Mar;144(3):131–6 (99 ref.) **(Rus)**
[Critical Care Surgery Unit in general and digestive system surgery] Arias J, et al. **Rev Esp Enferm Dig** 1990 Jan; 77(1):39–43 (Eng. Abstr.) **(Spa)**

THERAPY

[Use of lasers in gastroenterology] Nowakowska–Dulawa E. **Pol Tyg Lek** 1989 Apr 10–17;44(15–16):347–50 **(Pol)**
[Rehabilitation treatment of children in ambulatory–polyclinical conditions] Grebesheva II, et al. **Pediatriia** 1989;(9):85–9 **(Rus)**
[Status and objectives of postgraduate training in pediatrics and gastroenterology] Korovina NA, et al. **Pediatriia** 1990; (5):78–82 **(Rus)**
[Status of sanatorium and health resort services for children with non–tuberculous diseases and the problems of their further improvement] Saryсheva SIa. **Pediatriia** 1989; (9):5–9 **(Rus)**
[The therapeutic action of mineral waters in diseases of the digestive organs] Shvarts VIa, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):20–4 (Eng. Abstr.) **(Rus)**

VETERINARY

Surgery of the neonatal bovine digestive tract. Bristol DG, et al. **Vet Clin North Am Food Anim Pract** 1990 Jul; 6(2):473–93 (70 ref.)
Decision making in bovine abdominal surgery. St Jean G. **Vet Clin North Am Food Anim Pract** 1990 Jul;6(2):335–58 (68 ref.)

DIGESTIVE SYSTEM NEOPLASMS

Gastrointestinal endocrinology. **Gastroenterol Clin North Am** 1989 Dec;18(4):671–930
[Detection of hepatic metastasis of digestive cancers. Value of enzyme assays and ultrasonography] Molkhou JM, et al. **Presse Med** 1989 Sep 16;18(28):1370–4 (Eng. Abstr.) **(Fre)**

ANALYSIS

[Comparative study of the content of 1,25–dihydroxyvitamin D3 receptors in digestive mucosa and adenocarcinoma] Meggouh F, et al. **Bull Cancer (Paris)** 1990;77(3):205–12 (Eng. Abstr.) **(Fre)**

BLOOD

[Vitamins A and E in digestive cancers] Barthet M, et al. **C R Acad Sci [III]** 1989;309(4):101–4 (Eng. Abstr.) **(Fre)**
[Clinical investigation of plasma prostaglandin levels in patients with digestive cancers] Itakura M, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Dec 20;24(11):2522–33 (Eng. Abstr.) **(Jpn)**

BLOOD SUPPLY

Encasement and other deformations of tumor–embedded host arteries due to loss of medial smooth muscles. Morphometric and three–dimensional reconstruction studies on some human carcinomas. Yaegashi H, et al. **Cancer** 1990 Mar 1;65(5):1097–103

COMPLICATIONS

Endoprosthetic insertion for malignant obstructive jaundice: a retrospective review. Tarr KP, et al. **J Am Osteopath Assoc** 1989 Dec;89(12):1525–37
[Congenital diffuse melanosis, lentiginosis, diffuse ganglioneuromatosis and multiple schwannoma of the digestive system: an original neurocristopathy?] Lacour JP, et al. **Ann Dermatol Venereol** 1989;116(11):783–5 **(Fre)**
[Protein–losing enteropathy syndrome caused by a localization of Kaposi's sarcoma in AIDS] Bouhnik Y, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):838–40 (14 ref.) (Eng. Abstr.) **(Fre)**
[The association of extramembranous glomerulonephritis and digestive cancer (letter)] Schillinger F, et al. **Presse Med** 1989 Nov 11;18(37):1846 **(Fre)**
[Anasarca caused by exudative enteropathy due to digestive Kaposi's sarcoma (letter)] Tusseau F, et al. **Presse Med** 1989 Sep 16;18(28):1393 **(Fre)**

DIAGNOSIS

Clinical application of endoscopic ultrasonography. Nickl NJ, et al. **Am J Gastroenterol** 1990 Jun;85(6):675–82
Chromogranin A, neuron–specific enolase and synaptophysin as neuroendocrine cell markers in the diagnosis of tumours of the gastro–entero–pancreatic system. Schürmann G, et al. **Eur J Surg Oncol** 1990 Aug;16(4):298–303
Gastrointestinal cancer in the elderly. Wallach CB, et al. **Gastroenterol Clin North Am** 1990 Jun;19(2):419–32 (62 ref.)
Role of computed tomography and endoscopy in the management of alimentary tract lipomas. Kang JY, et al. **Gut** 1990 May;31(5):550–3
[Diagnostic value of serum CA 19–9 determination in digestive tract cancer] Chen SB. **Chung Hua Chung Liu Tsa Chih** 1990 Jan;12(1):58–60 (Eng. Abstr.) **(Chi)**
[Contribution of endoscopy in digestive non–Hodgkin's malignant lymphoma (letter)] Jamil D, et al. **J Chir (Paris)** 1990 Jan;127(1):41–4 **(Fre)**
[The importance of endosonography for tumor diagnosis] Kleinau H, et al. **Arch Geschwulstforsch** 1990;60(1):55–61 (Eng. Abstr.) **(Ger)**
[Clinical significance of carbohydrate antigen 19–9 assay as a tumor marker] Ohkura H, et al. **Nippon Rinsho** 1990 Feb; 48 Suppl:931–3 **(Jpn)**
[Clinical evaluation of serum TAC–41 in various digestive cancers] Sato S, et al. **Rinsho Byori** 1989 Nov; 37(11):1259–62 (Eng. Abstr.) **(Jpn)**

[Angiographic image of neoplastic metastases to the liver] Gregorczyk A. **Przegl Lek** 1989;46(9):669–72 (Eng. Abstr.) **(Pol)**

[Diagnostic usefulness of Ca 19-9 antigen in cancer of the pancreas and neoplasms of the pancreato-biliary intersection] Robles-Díáz G, et al. **Gac Med Mex** 1990 Mar-Apr;126(2):78–82; discussion 82–3 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Good tolerance of weekly oral idarubicin: (4-demethoxydaunorubicin): a phase I study with pharmacology. Hochster H, et al. **Cancer Chemother Pharmacol** 1990;26(4):297–300

Chemosensitivity test for carcinoma of digestive organs. Maehara Y, et al. **Semin Surg Oncol** 1990;6(1):42–7

[Propofol intravenous anesthesia for intra-arterial catheterization in cancer patients] Chau SW, et al. **Ma Tsui Hsueh Tsa Chi** 1990 Mar;28(1):55–62 (Eng. Abstr.) **(Chi)**

[Palliative treatment by photochemotherapy of 54 digestive cancers: phase I clinical trial] Patrice T, et al. **Ann Chir** 1989;43(6):433–7 (Eng. Abstr.) **(Fre)**

[Planned curative photochemotherapy of digestive tumors] Le Bodic L, et al. **Rev Med Suisse Romande** 1990 Jun; 110(6):511–3 **(Fre)**

[Thymopentin and immune response in patients with cancer] Petronella P, et al. **Minerva Chir** 1989 Sep 30; 44(18):2017–20 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Species differences in substrate specificity of pyrimidine nucleoside phosphorylase. Maehara Y, et al. **J Surg Oncol** 1989 Nov;42(3):184–6

EPIDEMIOLOGY

Digestive cancers and nutrition in Belgium. Joossens JV. **Acta Gastroenterol Belg** 1989 Jul-Oct;51(4–5):313–21

Epidemiology of alimentary cancers in New South Wales, 1973–82. McCredie M, et al. **Aust N Z J Surg** 1990 Feb; 60(2):93–8

Occupational risk factors for upper respiratory tract and upper digestive tract cancers. Haguenoer JM, et al. **Br J Ind Med** 1990 Jun;47(6):380–3

[Epidemiology of cancer of the digestive tract in Senegal. Review of 18,000 endoscopies performed at the Principal Hospital of Dakar] Peghini M, et al. **Med Trop (Mars)** 1990 Apr;50(2):205–8 (Eng. Abstr.) **(Fre)**

[Epidemiology of malignant neoplasms of the respiratory and upper digestive tract in Austria] Swoboda H, et al. **Laryngorhinootologie** 1990 Mar;69(3):123–30 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Socioeconomic indicators, tobacco and alcohol in the aetiology of digestive tract neoplasms. Ferraroni M, et al. **Int J Epidemiol** 1989 Sep;18(3):556–62

Alcohol and cancer [see comments] **Lancet** 1990 Mar 17; 335(8690):634–5 (22 ref.) Comment in: Lancet 1990 May 19;335(8699):1216.

[Neonatal miliary hemangioma] Heudes AM, et al. **Arch Fr Pediatr** 1990 Feb;47(2):135–8 (38 ref.) **(Fre)**

[Etiopathogenic study of digestive cancer in Viscaya, with special emphasis on the role of diet and alcohol and tobacco use] Goiriena de Gandarias FJ, et al. **Rev Sanid Hig Publica (Madr)** 1988 Jan-Apr; 62(1–4):1411–30 **(Spa)**

GENETICS

Familial multiple upper gastrointestinal leiomyoma. Rosen RM. **Am J Gastroenterol** 1990 Mar;85(3):303–5

Over-expression of facilitative glucose transporter genes in human cancer. Yamamoto T, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):223–30

IMMUNOLOGY

[The value of tumor markers in digestive oncology] Ychou M, et al. **Ann Chir** 1989;43(7):517–23 (41 ref.) (Eng. Abstr.) **(Fre)**

[Monoclonal antibodies. Their usefulness in the diagnosis of malignant tumors of the digestive system] Campos Campos F, et al. **Rev Gastroenterol Mex** 1989 Oct-Dec;54(4):193–8 (Eng. Abstr.) **(Spa)**

METABOLISM

Vitamin A, vitamin E, retinol binding protein (RBP), and prealbumin in digestive cancers. Charpiot P, et al. **Int J Vitam Nutr Res** 1989;59(4):323–8

Coexpression of intermediate filaments in squamous cell carcinomas of upper aerodigestive tract before and after radiation and chemotherapy. Fischer HP, et al. **Lab Invest** 1989 Oct;61(4):433–9

MORTALITY

Prognostic factors for survival after pancreaticoduodenectomy for malignant disease. Winek T, et al. **Am J Surg** 1990 May;159(5):454–6

[Mortality trends caused by neoplasms of the digestive system. Soria, 1950-1985] Ruiz Liso JM, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):3–13 (Eng. Abstr.) **(Spa)**

PATHOLOGY

[Pathological study of 936 cases of smooth muscle tumor in the alimentary tract] Wen J. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):167–70 (Eng. Abstr.) **(Chi)**

[Monoclonal anti-AFP immunoscintigraphy of human hepatocellular carcinoma. Influence of biological, anatomical and vascular factors] Duclos B, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):910–5 (Eng. Abstr.) **(Fre)**

[B lymphomas of the digestive system. Current data and concept of MALT] Galian A, et al. **Pathol Biol (Paris)** 1989 Nov;37(9):1062–4 **(Fre)**

[Effect of vitamin A deficiency on PNUR-induced carcinogenesis in the rat upper digestive tract] Toyoda K, et al. **Eisei Shikenjo Hokoku** 1989;(107):73–7 (Eng. Abstr.) **(Jpn)**

[Brain metastases from carcinomas of the digestive organs—a comparative study with those from pulmonary carcinomas] Wakisaka S, et al. **Gan No Rinsho** 1989 Nov;35(14):1645–9 (Eng. Abstr.) **(Jpn)**

[Neoplastic metastases in the bone marrow from cancers of the digestive system (stomach, pancreas, liver and gallbladder)] Kemona A, et al. **Patol Pol** 1989;40(2):205–9 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

[The effect of age-related changes on the hypophyseo-adrenal and sympathetico-adrenal systems in patients with cancer of the digestive tract and lungs] Ganul VL, et al. **Vrach Delo** 1989 Oct;(10):8–11 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

[The X-ray characteristic feature of the multiple primary malignant tumor of digestive tract] Yang K, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Jun;21(2):209–12 (Eng. Abstr.) **(Chi)**

RADIOTHERAPY

[Osteoradionecrosis of the clavicle after treatment of cancer of the upper respiratory and digestive tract] Pillon P, et al. **Rev Rhum Mal Osteoartic** 1990 Apr 25;57(4):341–5 (17 ref.) **(Fre)**

SECRETION

[Paraneoplastic endocrine syndromes] Domański J. **Wiad Lek** 1989 Aug 15-Sep 15;42(16–18):956–9 (22 ref.) **(Pol)**

SURGERY

Pulmonary complications after 154 trans-thoracic operations requiring more than 8 hours anaesthesia. Knudsen J, et al. **Br J Anaesth** 1974 Oct;46(10):752–5

[Surgical use of lasers in digestive cancer] Sultan RA. **Pathol Biol (Paris)** 1989 Nov;37(9):1039–41 **(Fre)**

[Pre-operative identification of patients at risk for septic complications after surgery for neoplasms of the digestive system. A multiphasic multicenter study] Cafiero F, et al. **Minerva Chir** 1989 Oct 31;44(20):2169–80 (Eng. Abstr.) **(Ita)**

[Muscle tumors of the digestive tract. Apropos 6 cases] Botto G, et al. **Minerva Med** 1989 Aug;80(8):823–7 **(Ita)**

[Application of transendoscopic Nd-YAG laser to stenosis caused by unresectable carcinoma of the alimentary tract] Ono S, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1598–601 (Eng. Abstr.) **(Jpn)**

[Treatment of postoperative peritonitis in oncology patients] Kondrat'ev NP, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):95–8 **(Rus)**

[Diagnosis of postoperative coagulopathic hemorrhage in oncology patients] Madzhuga AV, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):85–9 (Eng. Abstr.) **(Rus)**

[Treatment of digestive tract tumors using the Nd-YAG laser] Mlkvý P, et al. **Vnitr Lek** 1989 Jul;35(7):679–84 (Eng. Abstr.) **(Slo)**

THERAPY

Cancers of the large bowel, pancreas and hepatobiliary tract. Woolley PV 3d, et al. **Cancer Chemother Biol Response Modif** 1988;10:250–64 (89 ref.)

Nutritional support for cancer patients receiving abdominal and pelvic radiotherapy: a randomized prospective clinical experiment of intravenous versus oral feeding. Valerio D, et al. **Surg Forum** 1978;29:145–8

[Cancers of the upper respiratory and digestive tracts (editorial)] Brugère J. **Bull Cancer (Paris)** 1989;76(7):733 **(Fre)**

[Two cases of digestive cancer demonstrated remarkable regression by hyperthermia with systemic chemotherapy] Soga K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Nov; 86(11):2622–6 **(Jpn)**

[Can we win the race against cancer of the digestive tract? Hopes, achievements and reality] Gibiński K. **Pol Arch Med Wewn** 1988 Jan;79(1):38–45 (26 ref.) **(Pol)**

VETERINARY

The Harvey ras 1 gene is activated in papillomavirus-associated carcinomas of the upper alimentary canal in cattle. Campo MS, et al. **Oncogene** 1990 Mar;5(3):303–8

DIGILANIDES see **LANATOSIDES**

DIGITAL RADIOGRAPHY see **RADIOGRAPHIC IMAGE ENHANCEMENT**

DIGITAL SCAN PROJECTION RADIOGRAPHY, DUAL-ENERGY see **RADIOGRAPHY, DUAL-ENERGY SCANNED PROJECTION**

DIGITAL SIGNAL PROCESSING see **SIGNAL PROCESSING, COMPUTER-ASSISTED**

DIGITAL SUBTRACTION ANGIOGRAPHY see **ANGIOGRAPHY, DIGITAL SUBTRACTION**

DIGITALIS

Structural studies on the biosides of Digitalis lanata: bisdigitoxosides of digitoxigenin, gitoxigenin and digoxigenin [published erratum appears in Acta Crystallogr B 1990 Apr 1;46(Pt 2):288] Go KT, et al. **Acta Crystallogr B** 1989 Jun 1;45 (Pt 3):306–12

Changing concepts in the management of congestive heart failure. Keller KB, et al. **Heart Lung** 1990 Jul;19(4):425–9 (5 ref.)

[Current status and problems in digitalis therapy] Miyashita H. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1436–40 **(Jpn)**

[Digitalis in the treatment of heart insufficiency at the end of the 80's (editorial)] Ramalhão C. **Rev Port Cardiol** 1989 Dec;8(12):833–4 **(Por)**

[Digitalis: a historical perspective] Nogueram H. **Rev Med Chil** 1988 Dec;116(12):1330–4 **(Spa)**

ANALYSIS

High-performance liquid chromatographic determination of secondary cardiac glycosides in Digitalis purpurea leaves. Fujii Y, et al. **J Chromatogr** 1989 Oct 6;479(2):319–25

Separation and determination of lanatosides in Digitalis lanata leaves by high-performance liquid chromatography. Fujii Y, et al. **J Chromatogr** 1990 May 25;508(1):241–6

ENZYMOLOGY

Characterization and localization of progesterone 5 alpha-reductase from cell cultures of foxglove (Digitalis lanata EHRH). Wendroth S, et al. **Biochem J** 1990 Feb 15;266(1):41–6

DIGITALIS GLYCOSIDES

ADVERSE EFFECTS

Learned fear: a cause of arrhythmia onset in the presence of digitalis. Natelson BH, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):431–4

[Van Gogh's xanthopsia] Lanthony P. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1133–4 (Eng. Abstr.) **(Fre)**

ANALYSIS

High-performance liquid chromatographic determination of secondary cardiac glycosides in Digitalis purpurea leaves. Fujii Y, et al. **J Chromatogr** 1989 Oct 6;479(2):319–25

BLOOD

Increase in plasma digitalis-like activity during percutaneous transluminal coronary angioplasty in patients with coronary stenosis. Delva P, et al. **Life Sci** 1990;47(5):385–9

CLASSIFICATION

Digitalis, a defibrillatory drug. Cotoi S, et al. **Med Interne** 1989 Oct-Dec;27(4):319–21

ISOLATION & PURIFICATION

Purification and characterization of endogenous digitalis-like substance (DLS) from pig heart. Agbanyo M, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr;68(1):41–54

METABOLISM

Progesterone derivatives that bind to the digitalis receptor. LaBella FS, et al. **Trends Pharmacol Sci** 1989 Jan;10(1):11–4 (16 ref.)

PHARMACOLOGY

13th Alexander Brown memorial lecture given on 22 February 1985 by G. Onuaguluchi. "Cardiotonic Drugs in the Management of Chronic Congestive Heart Failure: Digitalis Revisited ". Oruaguluchi G. **Afr J Med Med Sci** 1989 Dec;18(4):315–28

Changes in histamine secretion from mast cells caused by digitalis glycosides. Erjavec F, et al. **Agents Actions** 1990 Apr;30(1–2):125–7

Digitalis tolerance during atrial fibrillation and normal sinus

rhythm. Elkins RC, et al. **Am J Cardiol** 1967 Aug; 20(2):229–31

Digitalis pharmacology and therapeutics: recent advances. Mason DT. **Ann Intern Med** 1974 Apr;80(4):520–30 (79 ref.)

Digitalis receptor sugar binding site characteristics: a model based upon studies of Na+, K(+)-ATPase preparations with differing digitalis sensitivities. From AH, et al. **Mol Cell Biochem** 1990 May 10;94(2):157–65

The fundamental mechanism of inotropic action of digitalis. Smith TW. **Therapie** 1989 Nov–Dec;44(6):431–5 (11 ref.)

[Changes in myocardial metabolism induced by drugs used during intensive care] Lançon JP, et al. **Ann Fr Anesth Reanim** 1990;9(1):31–41 (68 ref.) (Eng. Abstr.) **(Fre)**

POISONING

Treatment of 150 cases of life-threatening digitalis intoxication with digoxin-specific Fab antibody fragments. Final report of a multicenter study. Antman EM, et al. **Circulation** 1990 Jun;81(6):1744–52

Management of digitalis intoxicated patients following the administration of digoxin FAB antibodies (Digibind). Ujhelyi M. **Conn Med** 1990 Feb;54(2):63–4

Cardiac drug toxicity: digitalis glycosides and calcium-channel and beta-blocking agents. Pentel PR, et al. **Med J Aust** 1990 Jan 15;152(2):88–94 (78 ref.)

[The effect of cardioactive glycosides on atrioventricular conduction] Surbat R. **Med Arh** 1986;40(6):313–5 (Eng. Abstr.) **(Scr)**

[Digitalis poisoning associated with hyperkalemia: presentation of a case (letter)] Sánchez-Izquierdo Riera JA, et al. **Med Clin (Barc)** 1989 Oct 7;93(10):397–8 **(Spa)**

THERAPEUTIC USE

Cardiac glycosides and congestive heart failure. Kelly RA. **Am J Cardiol** 1990 Mar 6;65(10):10E–16E; discussion 22E–23E (50 ref.)

Digitalis: a drug that refuses to die. Lewis RP. **Crit Care Med** 1990 Jan;18(1 Pt 2):S5–13 (42 ref.)

The residual myocardial contractile reserve in the rational use of digitalis. Cotoi S, et al. **Med Interne** 1989 Jul–Sep; 27(3):241–4

[What are the indications for digitalis glycosides in the current treatment of cardiac insufficiency?] Louis P, et al. **Arch Mal Coeur** 1990 Jun;83(7):991–5 (Eng. Abstr.) **(Fre)**

[Role of digitalis derivatives in the treatment of cardiac insufficiency with sinusal rhythm] Aumont MC. **Presse Med** 1990 Apr 21;19(16):756–61 (27 ref.) (Eng. Abstr.) **(Fre)**

[Therapeutic use of diuretics and digitalis glycosides in renal failure] Scheler F, et al. **Verh Dtsch Ges Inn Med** 1989; 95:252–60 (20 ref.) **(Ger)**

[Use of digitalis 1981 to 1988 in the Frankfurt (Oder) district] Weigl G. **Z Arztl Fortbild (Jena)** 1989;83(22):1115–6 **(Ger)**

[Digitalis therapy in decompensation and in heart rhythm disturbances in the elderly. Personal experience] Vegezzi C, et al. **Minerva Cardioangiol** 1989 Jun;37(6):311–4 (Eng. Abstr.) **(Ita)**

[Mechanisms and clinical profile of inotropic action of medicines for heart failure] Yazaki Y. **Kokyu To Junkan** 1989 Dec;37(12):1271–7 (26 ref.) **(Jpn)**

[Role of digitalis in the pharmacologic treatment of cardiac insufficiency] Ramalhão C. **Rev Port Cardiol** 1989 Jun; 8(6):469 (Eng. Abstr.) **(Por)**

[Rational choice of cardiotonic agents in modern pediatrics] Hadžić N. **Med Arh** 1986;40(1–2):61–4 (Eng. Abstr.) **(Scr)**

[What have we learned about digitalis in heart failure and sinus rhythm?] Held P. **Lakartidningen** 1989 Sep 13; 86(37):3042–5 **(Swe)**

TOXICITY

Digitalis cardiotoxicity: cellular calcium overload a possible mechanism. Khatter JC, et al. **Basic Res Cardiol** 1989 Nov–Dec;84(6):553–63

DIGITIN see **DIGITONIN**

DIGITONIN

Solubilization of high affinity corticotropin-releasing factor receptors from rat brain: characterization of an active digitonin-solubilized receptor complex. Grigoriadis DE, et al. **Endocrinology** 1989 Dec;125(6):3068–77

PHARMACOKINETICS

Regulation of acrosomal matrix dispersion in digitonin-permeabilized guinea pig spermatozoa. Noland TD. **Biol Reprod** 1990 Feb;42(2):252–9

PHARMACOLOGY

The influence of molecular crowding on the binding of glycolytic enzymes to cytoskeletal structure. Shearwin K, et al. **Biochem Int** 1989 Oct;19(4):723–9

Stimulation of Ca2(+)-independent catecholamine secretion from digitonin-permeabilized bovine adrenal chromaffin cells by guanine nucleotide analogues. Relationship to arachidonate release. Morgan A, et al. **Biochem J** 1990 Jul 15;269(2):521–6

Micromolar free calcium exposes ouabain-binding sites in digitonin-permeabilized Xenopus laevis oocytes. Schmalzing G, et al. **Biochem J** 1990 Aug 1;269(3):757–66

Energetics of Ehrlich ascites mitochondria: membrane potential of isolated mitochondria and mitochondria within digitonin-permeabilized cells. Bogucka K, et al. **Biochim Biophys Acta** 1990 Feb 22;1015(3):503–9

Characterization of mitochondrial functions in digitonin-permeabilized rat liver cells. Boschmann M, et al. **Biomed Biochim Acta** 1989;48(9):645–52

Investigation of rat striatal dopamine D-1 receptors solubilized by digitonin with a precipitation method. Zhang X, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):401–10

Fast in vitro movement of outer hair cells in an external electric field: effect of digitonin, a membrane permeabilizing agent. Iwasa KH, et al. **Hear Res** 1989 Jul; 40(3):247–54

High zone-selectivity of cell permeabilization following digitonin-pulse perfusion of rat liver. A re-interpretation of the microcirculatory zones. Quistorff B, et al. **Histochemistry** 1989;92(6):487–98

Layer-by-layer desquamation of corneal epithelium and maturation of tear-facing membranes. Sokol JL, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):294–304

Calcium accumulation and release by the sarcoplasmic reticulum of digitonin-lysed adult mammalian ventricular cardiomyocytes. Wimsatt DK, et al. **J Biol Chem** 1990 Sep 5;265(25):14849–57

Vasopressin rapidly stimulates protein kinase C in digitonin-permeabilized Swiss 3T3 cells: involvement of a pertussis toxin-insensitive guanine nucleotide binding protein. Erusalimsky JD, et al. **J Cell Physiol** 1989 Nov; 141(2):253–61

Hydrolysis-resistant GTP analogs stimulate catecholamine release from digitonin-permeabilized PC12 cells. Carroll AG, et al. **J Neurochem** 1990 Sep;55(3):930–6

DIGITOXIGENIN

ANALOGS & DERIVATIVES

Comparative ability of digoxin and an aminosugar cardiac glycoside to bind to and inhibit Na+,K+-adenosine triphosphatase. Effect of potassium. Songu-Mize E, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3689–95

Different patterns of autonomic nerve activity produced by a polar vs. a neutral cardiac glycoside. Rebagay WR, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):180–4

ANALYSIS

Retention behavior of cardiac steroids using cyclodextrin in the mobile phase in high-performance liquid chromatography. Shimada K, et al. **J Chromatogr** 1989 Sep 15;478(2):339–47

METABOLISM

Purification of a rat liver cytosolic sulfotransferase responsible for the conjugation of digitoxigenin. Johannes A, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):301–7

DIGITOXIN

ANALOGS & DERIVATIVES

[Digitalis poisoning with severe ischemic colitis: a favorable course after treatment with specific antibodies (letter)] Bourhis F, et al. **Gastroenterol Clin Biol** 1990;14(1):95 **(Fre)**

ANALYSIS

[Solid phase fluorescence immunoassay of digitoxin] Krylova SM, et al. **Vopr Med Khim** 1990 Jan–Feb;36(1):47–50 **(Rus)**

IMMUNOLOGY

Immunopharmacological activity of monoclonal antidigitoxin. Urtizberea M, et al. **Dev Biol Stand** 1990; 71:147–57

A case of divergent digitoxin values under treatment of a patient with acute digitoxin overdose with digitalis antibody fragments. Wood WG, et al. **Klin Wochenschr** 1990 Mar 16;68(6):324–7

METABOLISM

Purification of a rat liver cytosolic sulfotransferase responsible for the conjugation of digitoxigenin. Johannes A, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):301–7

PHARMACOKINETICS

Influence of induced cholestasis on pharmacokinetics of digoxin and digitoxin in dogs. Miyazawa Y, et al. **Am J Vet Res** 1990 Apr;51(4):605–10

[Therapeutic drug monitoring of digitoxin—results of 3 years' experience] Haustein KO, et al. **Z Gesamte Inn Med** 1989 Nov 1;44(21):640–3 (Eng. Abstr.) **(Ger)**

[Therapeutic drug monitoring of digitoxin] Nishihara K. **Nippon Rinsho** 1990 Feb;48 Suppl:1162–4 **(Jpn)**

POISONING

A case of divergent digitoxin values under treatment of a patient with acute digitoxin overdose with digitalis antibody fragments. Wood WG, et al. **Klin Wochenschr** 1990 Mar 16;68(6):324–7

[Suicidal digitalis poisoning: considerations concerning treatment strategy with antibodies] Hess T, et al. **Schweiz Med Wochenschr** 1989 Oct 21;119(42):1466–9 (Eng. Abstr.) **(Ger)**

[Acute digitoxin poisoning] Battegay M, et al. **Schweiz Rundsch Med Prax** 1989 Aug 15;78(33):880–2 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

[Ambulatory therapy regimen in patients following myocardial infarct in relation to echocardiography and the stress test] Schaller K, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):543–5 (Eng. Abstr.) **(Ger)**

DIGLYCERIDES see under **GLYCERIDES**

DIGOXIGENIN see under **DIGOXIN**

DIGOXIN

Effects of inhibition of cardiac potassium and calcium channels on the digoxin-induced cardiotonic arrhythmogenic and toxic actions. Szegi J, et al. **Acta Physiol Hung** 1990;75 Suppl:263–4

Nonradioactive detection of vasopressin and somatostatin mRNA with digoxigenin-labeled oligonucleotide probes. Lewis ME, et al. **Ann N Y Acad Sci** 1990;579:246–53

Preparation of digoxigenin-labeled probes by the polymerase chain reaction. Lanzillo JJ. **Biotechniques** 1990 Jun;8(6):620, 622

Digoxigenin-labeled probes can detect single-copy genes in human metaphase chromosomes. Vernole P. **Biotechniques** 1990 Aug;9(2):200–4

The interrelationship of morphine and the parasympathetic nervous system in digoxin-induced arrhythmias in the guinea-pig. Rabkin SW. **Clin Exp Pharmacol Physiol** 1988 Aug;15(8):565–73

Lectin—digoxigenin conjugates: a new hapten system for glycoconjugate cytochemistry. Sata T, et al. **Histochemistry** 1990;94(1):1–11

Identification of enterotoxigenic Escherichia coli by colony hybridization with nonradioactive digoxigenin-labeled DNA probes. Riley LK, et al. **J Clin Microbiol** 1990 Jun; 28(6):1465–8

Detection of messenger RNA using a digoxigenin end labelled oligodeoxynucleotide probe. Farquharson M, et al. **J Clin Pathol** 1990 May;43(5):424–8

Synthesis of digoxigenin-labelled DNA probe by polymerase chain reaction: application to Epstein-Barr virus and Chlamydia trachomatis. Griffais R, et al. **Res Virol** 1990 May–Jun;141(3):331–5

Detection of human papillomavirus DNA in genital condylomata in women and their male partners by using in situ hybridization with digoxygenin labeled probes. Konno R, et al. **Tohoku J Exp Med** 1990 Apr;160(4):383–90

In situ hybridization of Drosophila polytene chromosomes with digoxigenin-dUTP-labeled probes. Engels WR, et al. **Trends Genet** 1989 Nov;5(11):366

[Methodologic variants of DNA blood stain analysis: extraction in agarose and digoxigenin marking] Prinz M, et al. **Beitr Gerichtl Med** 1989;47:175–9 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Near-fatal yew berry intoxication treated with external cardiac pacing and digoxin-specific FAB antibody fragments. Cummins RO, et al. **Ann Emerg Med** 1990 Jan; 19(1):38–43

Transition from Lanoxin capsules to Lanoxin tablets in the debilitated elderly. Drinka PJ, et al. **DICP** 1990 Apr; 24(4):381–2

Digoxin infusion versus bolus injection in rapid atrial fibrillation: relation between serum level and response. Smit AJ, et al. **Eur J Clin Pharmacol** 1990;38(4):335–41

Supervised withdrawal of long-term digoxin therapy. Fair JF. **Fam Pract** 1990 Mar;7(1):56–9

Urgent parenteral digoxin therapy: a requiem [editorial; comment] Ewy GA. **J Am Coll Cardiol** 1990 May; 15(6):1248–9 Comment on: J Am Coll Cardiol 1990 May;15(6):1238–47.

Once-daily versus twice-daily dosing of digoxin in the pediatric age group. Zalzstein E, et al. **J Pediatr** 1990 Jan; 116(1):137–9

Digitalis in general practice [letter; comment] Overby A. **Scand J Prim Health Care** 1989 Oct;7(3):183 Comment on: Scand J Prim Health Care 1988 Nov;6(4):193–4.

[Congestive heart failure treated by a combination of cyclovirobuxine D with digoxin] Yan M. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):88–9, 69 (Eng. Abstr.) **(Chi)**

[The use of digoxin and diltiazem in controlling ventricular rate in chronic atrial fibrillation] Zheng Z. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1990 Feb; 18(1):8–10 **(Chi)**

[Hydrops fetalis in tachycardia: diagnostic and therapeutic procedures] Karrer G, et al. **Gynakol Rundsch** 1990;

30(1):28–39 (59 ref.) (Eng. Abstr.) (Ger)
[Monitoring the treatment using digitalis glycosides—the problem of therapeutic and subtherapeutic levels] Adamska–Dyniewska H, et al. **Pol Arch Med Wewn** 1987 Dec;78(6):297–305 (Eng. Abstr.) (Pol)
[Evaluation of nifedipine and captopril as adjuvant drugs in the standard treatment of chronic heart failure] Cholewa M, et al. **Pol Arch Med Wewn** 1989 Oct–Dec; 82(4–6):146–55 (Eng. Abstr.) (Pol)
[A case of successful antibiotic therapy of legionnaires' disease with lesions of the lungs and heart] Zamotaev IP, et al. **Antibiot Khimioter** 1990 Jun;35(6):43–5 (Eng. Abstr.) (Rus)
[Reaction of central hemodynamics to physical exertion in patients with ischemic heart disease and permanent cardiac pacemaker during long–term ambulatory treatment with digoxin] Isazade GM, et al. **Kardiologiia** 1989 Jul; 29(7):104–6 (Rus)
[Experience with the treatment of atrial fibrillation with cordarone and digoxin] Gligan LI, et al. **Klin Med (Mosk)** 1990 Feb;68(2):46–8 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Reduction of digoxin toxicity associated with measurement of serum levels. A report from the Boston Collaborative Drug Surveillance Program. Duhme DW, et al. **Ann Intern Med** 1974 Apr;80(4):516–9
Identification and treatment of hypomagnesemia and hypokalemia in patients receiving digoxin. Njinimbam G, et al. **Clin Chem** 1990 Mar;36(3):575–6
Erythromycin–induced digoxin toxicity. Morton MR, et al. **DICP** 1989 Sep;23(9):668–70
Oral magnesium reduces ventricular ectopy in digitalised patients with chronic atrial fibrillation. Lewis RV, et al. **Eur J Clin Pharmacol** 1990;38(2):107–10

ANALOGS & DERIVATIVES

Cross–resistance and biochemical characteristics of second–step mutants of HeLa cells resistant to cardiac glycosides. Chopra A, et al. **Biochem Cell Biol** 1990 May; 68(5):852–7
Serum digoxin and beta–methyldigoxin in elderly patients on hospital admission: correlation with home compliance and clinical variables. Seghieri G, et al. **Eur J Clin Pharmacol** 1989;37(4):401–4
Beta–methyl digoxin: a better absorbable digoxin. Das G. **Int J Clin Pharmacol Ther Toxicol** 1989 Nov;27(11):521–5 (17 ref.)
Electrochemical detection of the 3,5–dinitrobenzoyl derivative of digoxin by high–performance liquid chromatography. Embree L, et al. **J Chromatogr** 1990 Apr 6;526(2):439–46
Detection of Epstein–Barr virus DNA in nasopharyngeal carcinoma using a non–radioactive digoxigenin–labelled probe. Permeen AM, et al. **J Virol Methods** 1990 Mar; 27(3):261–7
Detection of provirus in an HTLV–II producer CD8+ T cell line by polymerase chain reaction combined with digoxigenin–ELISA method. Miyamoto K, et al. **Jpn J Cancer Res** 1990 Apr;81(4):313–6
Effect of rioprostil, a methyl–prostaglandin E1, on plasma level and renal excretion of beta–acetyldigoxin. Demol P, et al. **Scand J Gastroenterol Suppl** 1989;164:68–71; discussion 71–2
[Detection of human papillomavirus genome in nasolaryngeal papillomas using digoxigenin labeled DNA probes] Furuta Y, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Dec; 92(12):2055–63 (Eng. Abstr.) (Jpn)
[Beta–methyldigoxin and digoxin—a comparison of biological availability and the results of monitored therapy] Adamska–Dyniewska H, et al. **Pol Arch Med Wewn** 1987 May;77(5):193–9 (Eng. Abstr.) (Pol)
[The action of strophanthin K and beta–acetyldigoxin in vitro on the energy transformation by the contractile protein system of the normal cardiomyocyte] Karsanov NV, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):686–9 (Eng. Abstr.) (Rus)
[Use of beta–methyldigoxin preparations medilazine and bemecor in patients with congestive heart failure] Razumova ET, et al. **Kardiologiia** 1989 Oct;29(10):83–8 (Eng. Abstr.) (Rus)
[Tissue concentrations of beta–methyl–digoxin in children] Ardura J, et al. **An Esp Pediatr** 1989 Sep;31(3):291–6 (Eng. Abstr.) (Spa)

ANALYSIS

A digoxin–like immunoreactive substance and atrioventricular block induced by a Chinese medicine "kyushin". Lin CS, et al. **Jpn Circ J** 1989 Sep;53(9):1077–80
Comparison of digoxin–like immunoreactive substance cross–reactivity with two digoxin automated immunoassay [letter] Lacarelle B, et al. **Ther Drug Monit** 1989 Nov; 11(6):725–7

ANTAGONISTS & INHIBITORS

Modification of the positive inotropic effects of catecholamines, cardiac glycosides and Ca2+ by the orally active male contraceptive, gossypol, in isolated guinea–pig heart. Ye YX, et al. **Life Sci** 1989;45(20):1853–61

BLOOD

Effect of milrinone on steady–state digoxin levels in congestive heart failure. Ferrick KJ, et al. **Am J Cardiol** 1989 Nov 1;64(16):1057
A longitudinal study of maternal digoxin–like immunoreactive substances in normotensive pregnancy and pregnancy–induced hypertension. Kerkez SA, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):783–7
Characterization of digoxin–like materials in human cord serum. Chasalow FI, et al. **Ann N Y Acad Sci** 1990; 595:212–21
A study of the CEDIA digoxin immunoassay. Murthy VV, et al. **Clin Chem** 1990 Mar;36(3):559–61
A unitized enzyme–labeled immunometric digoxin assay suitable for rapid testing. Sommer RG, et al. **Clin Chem** 1990 Feb;36(2):201–6
Increased activity of digoxin–like substance in low–renin hypertension in acromegaly. Soszyński P, et al. **Clin Exp Hypertens [A]** 1990;12(4):533–49
Oral salbutamol decreases serum digoxin concentration. Edner M, et al. **Eur J Clin Pharmacol** 1990;38(2):195–7
Serum digoxin and beta–methyldigoxin in elderly patients on hospital admission: correlation with home compliance and clinical variables. Seghieri G, et al. **Eur J Clin Pharmacol** 1989;37(4):401–4
Effect of urapidil on steady–state serum digoxin concentration in healthy subjects. Solleder P, et al. **Eur J Clin Pharmacol** 1989;37(2):193–4
Serum digoxin concentration: increase after rest in different body positions. Edner M. **J Cardiovasc Pharmacol** 1990 Mar;15(3):508–9
Development of a high–performance liquid chromatographic–post–column fluorogenic assay for digoxin in serum. Embree L, et al. **J Chromatogr** 1989 Nov 24;496(2):321–34
Electrochemical detection of the 3,5–dinitrobenzoyl derivative of digoxin by high–performance liquid chromatography. Embree L, et al. **J Chromatogr** 1990 Apr 6;526(2):439–46
The effect of everyday exercise on steady state digoxin concentrations. Hall PD, et al. **J Clin Pharmacol** 1989 Dec; 29(12):1083–8
Total digoxin–like immunoreactive factor(s) in healthy population, uncomplicated term pregnancies and neonates. Krivoy N, et al. **J Endocrinol Invest** 1990 Jan;13(1):9–12
Effect of endogenous digoxin–like substances on the interpretation of high concentrations of digoxin in children. Stone J, et al. **J Pediatr** 1990 Aug;117(2 Pt 1):321–5
Interaction between digoxin and propafenone in children. Zalzstein E, et al. **J Pediatr** 1990 Feb;116(2):310–2
Comparison of analysis of digoxin in cardiac patients by HPLC and RIA. Kwong E, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr;68(1):121–4
Influence of spironolactone and its metabolite canrenone on serum digoxin assays. Foukaridis GN. **Ther Drug Monit** 1990 Jan;12(1):82–4
Digoxin–like immunoreactivity in Chinese medicine. Fushimi R, et al. **Ther Drug Monit** 1990 May;12(3):242–5
A dry–strip immunometric assay for digoxin on the Ames Seralyzer. Josefsohn M, et al. **Ther Drug Monit** 1990 Mar; 12(2):201–5
Falsely elevated digoxin levels: another look. Longley JM, et al. **Ther Drug Monit** 1989 Sep;11(5):572–3
Radioimmunoassay of digoxin in serum using monoclonal antibodies and assessment of interference by digoxin–like immunoreactive substances. Loucari–Yiannakou E, et al. **Ther Drug Monit** 1990 Mar;12(2):195–200
Effect of digoxin Fab antibodies on five digoxin immunoassays. Ujhelyi MR, et al. **Ther Drug Monit** 1990 May;12(3):288–92
[Monitoring of the serum digoxin concentration in the treatment of refractory heart failure] Han G. **Chung Hua Hu Li Tsa Chih** 1990 May;25(5):216–7 (Chi)
[Determination of blood digoxin (letter)] Janssen K. **Dtsch Med Wochenschr** 1990 Aug 17;115(33):1254 (Ger)
[The effect of quinidine on digoxin plasma levels after discontinuation of digoxin therapy] Markuljak I, et al. **Vnitr Lek** 1990 Jan;36(1):70–4 (Eng. Abstr.) (Slo)

IMMUNOLOGY

Effects of digoxin immune Fab (ovine) on digoxin immunoassays. Rainey PM. **Am J Clin Pathol** 1989 Dec; 92(6):779–86
Effect of therapeutic digoxin antibodies on digoxin assays. Hansell JR. **Arch Pathol Lab Med** 1989 Nov; 113(11):1259–62
Treatment of 150 cases of life–threatening digitalis intoxication with digoxin–specific Fab antibody fragments. Final report of a multicenter study. Antman EM, et al. **Circulation** 1990 Jun;81(6):1744–52
Stimulation of erythrocyte and renal Na+,K+–adenosine triphosphatase activity by antidigoxin antibody in normal rats. Wagener OE, et al. **Clin Sci** 1989 Dec;77(6):617–21
Specific anti–digoxin Fab fragments: an available antidote for proscillaridin and scilliroside poisoning? Sabouraud A, et al. **Hum Exp Toxicol** 1990 May;9(3):191–3
Selection of monoclonal anti–digoxin antibodies with appropriate binding characteristics for immunodiagnostic purposes. Kyurkchiev SD, et al. **Methods Find Exp Clin Pharmacol** 1990 May;12(4):265–74

METABOLISM

Concentrative uptake of digoxin by slices of chicken renal cortex. Wernke MJ, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):655–9
Digoxin–like factors in liver disease. Day CP, et al. **J Hepatol** 1989 Sep;9(2):281–4 (42 ref.)
The influence of amikacin on digoxin uptake by certain rabbit tissues in vitro. Kokkas B, et al. **Methods Find Exp Clin Pharmacol** 1989 Oct;11(10):641–2
Fetal uptake of intraamniotic digoxin in sheep. Hamamoto K, et al. **Pediatr Res** 1990 Mar;27(3):282–5

PHARMACOKINETICS

Evaluation of the potential for interactions of paroxetine with diazepam, cimetidine, warfarin, and digoxin. Bannister SJ, et al. **Acta Psychiatr Scand Suppl** 1989;350:102–6
Influence of induced cholestasis on pharmacokinetics of digoxin and digitoxin in dogs. Miyazawa Y, et al. **Am J Vet Res** 1990 Apr;51(4):605–10
Carvedilol increases the systemic bioavailability of oral digoxin. De Mey C, et al. **Br J Clin Pharmacol** 1990 Apr; 29(4):486–90
Kinetics of digoxin and anti–digoxin antibody fragments during treatment of digoxin toxicity. Sinclair AJ, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):352–6
Absorption of drugs from continent caecal reservoir for urine. Ekman I, et al. **Br J Urol** 1989 Oct;64(4):412–6
The effects of mannitol diuresis on digoxin and phenobarbital handling by the kidney: implications for tubular reabsorption and secretion of the cardiac glycoside. Koren G, et al. **Clin Invest Med** 1989 Oct;12(5):279–84
Interactions in the renal and biliary elimination of digoxin: stereoselective difference between quinine and quinidine. Hedman A, et al. **Clin Pharmacol Ther** 1990 Jan;47(1):20–6
Current considerations in digoxin usage. Shapiro W. **CRC Crit Rev Clin Lab Sci** 1978;9(4):321–46 (163 ref.)
Absorption of digoxin from tablets and capsules in subjects with malabsorption syndromes. Heizer WD, et al. **DICP** 1989 Oct;23(10):764–9
Comment: unusual digoxin concentrations [letter] Levine M, et al. **DICP** 1989 Sep;23(9):717–8
Effect of cimetidine on oral digoxin absorption. Mouser B, et al. **DICP** 1990 Mar;24(3):286–8
Amiodarone–digoxin interaction in rats. A reduction in hepatic uptake. Lambert C, et al. **Drug Metab Dispos** 1989 Nov–Dec;17(6):704–8
Interaction study of fenoldopam—digoxin in congestive heart failure. Strocchi E, et al. **Eur J Clin Pharmacol** 1989; 37(4):395–7
Beta–methyl digoxin: a better absorbable digoxin. Das G. **Int J Clin Pharmacol Ther Toxicol** 1989 Nov;27(11):521–5 (17 ref.)
The influence of piracetam on digoxin up–take by different rabbit tissues in vitro. Kokkas B, et al. **Int J Neurosci** 1989 Sep;48(1–2):25–7
Acute myocardial uptake of digoxin in humans: correlation with hemodynamic and electrocardiographic effects [see comments] Powell AC, et al. **J Am Coll Cardiol** 1990 May; 15(6):1238–47 Comment in: J Am Coll Cardiol 1990 May;15(6):1248–9.
Effects of compensated heart failure on digoxin pharmacokinetics in cats. Atkins CE, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):945–50
Reasons for intraindividual inconstancy of the digoxin saliva to serum concentration ratio. Haeckel R, et al. **J Clin Chem Clin Biochem** 1989 Sep;27(9):653–8
Lack of effect of enoximone on the pharmacokinetics of digoxin in patients with congestive heart failure. Trenk D, et al. **J Clin Pharmacol** 1990 Mar;30(3):235–40
Digoxin elimination in a functionally anephric patient after digoxin–specific Fab fragment therapy. Nuwayhid NF, et al. **Ther Drug Monit** 1989 Nov;11(6):680–5
The effect of age on digoxin pharmacokinetics in Fischer–344 rats. Evans RL, et al. **Toxicol Appl Pharmacol** 1990 Jan; 102(1):61–7
Cyclosporine nephrotoxicity and cyclosporine—digoxin interaction prior to heart transplantation. Dorian P, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1825–7
[The significance of digoxin–like immunoreactive factor (DLIF) for intensive care medicine] Simon HB, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):235–6 (Eng. Abstr.) (Ger)
[Distribution of radioactively labeled digitalis in the eye] Hollwich F, et al. **Klin Monatsbl Augenheilkd** 1990 Mar; 196(3):158–9 (Eng. Abstr.) (Ger)
[Therapeutic drug monitoring of digoxin] Nishihara K. **Nippon Rinsho** 1990 Feb;48 Suppl:1165–8 (Jpn)
[Progress in immunological methods of drug quantitation in clinical laboratory] Miura Y, et al. **Rinsho Byori** 1990 Jul; 38(7):735–43 (Eng. Abstr.) (Jpn)
[Enhanced bioavailability of digoxin by gamma–cyclodextrin complexation: evaluation for sublingual and oral administrations in humans] Seo H, et al. **Yakugaku Zasshi** 1989 Oct;109(10):778–82 (Eng. Abstr.) (Jpn)

PHARMACOLOGY

The ineffective use of digitalis to control rapid ventricular response in a patient with atrial fibrillation in septic shock [letter] Propp DA, et al. **Am J Emerg Med** 1989 Nov; 7(6):668–9

Comparative ability of digoxin and an aminosugar cardiac glycoside to bind to and inhibit Na+,K+-adenosine triphosphatase. Effect of potassium. Songu-Mize E, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3689-95

The inotropic effect of digoxin on an isolated rat heart in hypercapnia and (or) hypoxia. Allam M, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):455-61

Increased sensitivity to isoprenaline following digoxin pretreatment in anaesthetised and conscious dogs. Mihailidou AS, et al. **Cardiovasc Res** 1990 Mar;24(3):222-6

Relationship between systemic and coronary vascular responses to digoxin and concurrent drug therapy with verapamil/beta-adrenoceptor antagonists in humans. Powell AC, et al. **Clin Exp Pharmacol Physiol** 1990 Jun; 17(6):453-62

Investigation of possible pharmacokinetic and pharmacodynamic interactions between epanolol and digoxin. Lefebvre RA, et al. **Eur J Clin Pharmacol** 1990; 38(5):505-7

Digoxin-stimulated calcium transport across rat diaphragm interactions with aminophylline and verapamil. Arrabi WM, et al. **Gen Pharmacol** 1989;20(6):721-4

Exacerbation of doxorubicin cardiotoxicity by digoxin administration in an experimental rabbit model. Reeves WC, et al. **Int J Cancer** 1990 Apr 15;45(4):731-6 (42 ref.)

Digoxin Q-T prolongation [letter; comment] Singh RB. **J Assoc Physicians India** 1989 Feb;37(2):194 Comment on: J Assoc Physicians India 1988 Jul;36(7):458-9.

Inhibition of electrogenic Na(+)-pumping in isolated atrial tissue from patients treated with digoxin. Rasmussen HH, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):60-4

Different patterns of autonomic nerve activity produced by a polar vs. a neutral cardiac glycoside. Rebagay WR, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):180-4

Verapamil-digoxin interaction in chronic hemodialysis patients. Rendtorff C, et al. **Scand J Urol Nephrol** 1990; 24(2):137-9

[Electrophysiologic effects of intravenous digoxin in infants and children with Wolff-Parkinson-White syndrome] Fujiseki Y, et al. **Kokyu To Junkan** 1989 Aug;37(8):891-4 (Eng. Abstr.) **(Jpn)**

[Effect of cardiac glycosides on blood circulation and oxygen consumption of the stomach, intestines and pancreas] Pawlik WW, et al. **Folia Med Cracov** 1988;29(3-4):127-40 (Eng. Abstr.) **(Pol)**

[Thyroid gland function after short-term administration of amiodarone and digoxin] Renker B, et al. **Vnitr Lek** 1989 Dec;35(12):1183-9 (Eng. Abstr.) **(Slo)**

POISONING

Activated charcoal should replace the resins in the treatment of digoxin intoxication! [letter; comment] Neuvonen PJ, et al. **Arch Intern Med** 1989 Nov;149(11):2603-6 Comment on: Arch Intern Med 1988 Mar;148(3):745-6.

Pharmacokinetics and efficacy of digoxin specific Fab fragments in a child following massive digoxin overdose. Kearns GL, et al. **J Clin Pharmacol** 1989 Oct;29(10):901-8

Digoxin toxicity presenting with visual disturbance and trigeminal neuralgia. Johnson LN. **Neurology** 1990 Sep; 40(9):1469-70

Use of digoxin Fab immune fragments in a seven-day-old infant. Kaufman J, et al. **Pediatr Emerg Care** 1990 Jun; 6(2):118-21

[Estimation of intracellular free calcium concentration in patients undergoing digitalis treatment and in patients presenting digitalis toxicity] Qi WH, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Oct;28(10):609-11, 637 (Eng. Abstr.) **(Chi)**

[Efficacy of anti-digoxin antibodies in a premature neonate] Menget A, et al. **Arch Fr Pediatr** 1989 Nov;46(9):701-2 (Eng. Abstr.) **(Fre)**

[Clinical aspects of severe digitalis poisoning and its treatment with and without digoxin-specific antibodies. 3 case reports] Haefeli WE, et al. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):155-8 (Eng. Abstr.) **(Ger)**

[Treatment of life-threatening digitalis intoxication with digoxin-specific Fab antibody] Sato S. **Kokyu To Junkan** 1989 Oct;37(10):1055-60 **(Jpn)**

[Acute digitalis poisoning treated with antidigoxin antibodies (letter)] Nogué S, et al. **Med Clin (Barc)** 1989 Nov 18; 93(16):638 **(Spa)**

THERAPEUTIC USE

To what extent do congestive heart failure patients in sinus rhythm benefit from digoxin therapy? A systematic overview and meta-analysis. Jaeschke R, et al. **Am J Med** 1990 Mar;88(3):279-86 (43 ref.)

Use of digoxin in pregnancy [letter; comment] De Lia JE, et al. **Am J Obstet Gynecol** 1990 Feb;162(2):606-8 Comment on: Am J Obstet Gynecol 1987 Aug;157(2):368-71.

Prophylactic digitalization for thoracotomy: a reassessment. Ritchie AJ, et al. **Ann Thorac Surg** 1990 Jul;50(1):86-8

Time of occurrence, duration, and ventricular rate of paroxysmal atrial fibrillation: the effect of digoxin. Rawles JM, et al. **Br Heart J** 1990 Apr;63(4):225-7

Digoxin and angiotensin converting enzyme inhibitors in chronic heart failure. Gheorghiade M. **Can J Cardiol** 1990 Aug;6 Suppl C:14C-17C (10 ref.)

Pharmacologic strategies for treating respiratory failure. Aubier M. **Chest** 1990 Mar;97(3 Suppl):98S-103S (22 ref.)

Comparative effects of xamoterol and digoxin in patients with mild to moderate heart failure. The Italian Xamoterol Multicenter Research Group. **Eur Heart J** 1990 Apr;11 Suppl A:50-1

Atrial flutter in infancy. Sahadevan MR, et al. **Indian J Pediatr** 1989 Jul-Aug;56(4):535-9

Digoxin or verapamil or metoprolol for heart rate control in patients with mitral stenosis--a randomised cross-over study. Ahuja RC, et al. **Int J Cardiol** 1989 Dec;25(3):325-31

Efficacy of digoxin for treatment of cats with dilated cardiomyopathy. Atkins CE, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1463-9

Ibopamine vs. digoxin in chronic heart failure: a double-blind, crossover study. Alicandri C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S77-82

Digoxin, converting-enzyme inhibition (quinapril), and the combination in patients with congestive heart failure functional class II and sinus rhythm. Kromer EP, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):9-14

Evaluation of fetal heart rate artifacts, hemodynamics and digoxin treatment in fetal tachyarrhythmia by Doppler measurement of fetal blood flow--case report of a pre-excitation syndrome. Gonser M, et al. **J Perinat Med** 1989;17(6):411-6

Fetal heart rate monitoring casebook. Peripartum management of fetal supraventricular tachycardia. Sarno AP Jr, et al. **J Perinatol** 1989 Sep;9(3):351-4

A new look at digoxin in congestive heart failure and sinus rhythm. Timmis AD. **Postgrad Med J** 1989 Oct; 65(768):715-7 (26 ref.)

Digitalis attenuates arterial hypertrophy in experimental hypertension. Overbeck HW. **Proc Soc Exp Biol Med** 1990 Oct;195(1):18-21

[Should chronic atrial fibrillation be treated with digoxin?] Garre K. **Ugeskr Laeger** 1990 Aug 27;152(35):2475-8 (30 ref.) (Eng. Abstr.) **(Dan)**

[Ambulatory therapy regimen in patients following myocardial infarct in relation to echocardiography and the stress test] Schaller K, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):543-5 (Eng. Abstr.) **(Ger)**

[Beta-methyldigoxin and digoxin--a comparison of biological availability and the results of monitored therapy] Adamska-Dyniewska H, et al. **Pol Arch Med Wewn** 1987 May;77(5):193-9 (Eng. Abstr.) **(Pol)**

[Digitalis--selected problems and controversies] Nartowicz E, et al. **Wiad Lek** 1989 Oct 1-Nov 1;42(19-21):1080-5 (Eng. Abstr.) **(Pol)**

[Effect of digoxin on sinoatrial node automatism and atrio-ventricular conductivity in patients with a paroxysmal form of atrial fibrillation] Bobrov VA, et al. **Kardiologiia** 1989 Jul;29(7):17-21 (Eng. Abstr.) **(Rus)**

[Evaluation of the effectiveness of cardiac glycosides in patients with implanted cardiac stimulators] Tatarchenko IP, et al. **Kardiologiia** 1989 Sep;29(9):96-7 **(Rus)**

[The use of digoxin, lasix and finoptin in treating circulatory failure in hypertension] Orynchak MA. **Ter Arkh** 1989; 61(8):17-21 (Eng. Abstr.) **(Rus)**

[The effectiveness of digoxin and sidnofarm in the initial stages of chronic circulatory failure] Bondarenko IP, et al. **Vrach Delo** 1989 Oct;(10):73-5 (Eng. Abstr.) **(Rus)**

[Right ventricular function and effort tolerance in patients with chronic congestive heart insufficiency. A cross-over double-blind study] Montes Orbe PM, et al. **Rev Esp Cardiol** 1990 Mar;43(3):137-41 (Eng. Abstr.) **(Spa)**

TOXICITY

The cardiac glycoside digoxin disrupts host defense in experimental pneumococcal pneumonia by impairing neutrophil mobilization. Esposito AL, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1590-4

URINE

Does digoxin-like immunoreactivity really represent the natriuretic hormone? Goto A, et al. **Nephron** 1990; 54(1):99-100

5,12-DIHETE see **LEUKOTRIENES B**

DIHYDRALAZINE see under **HYDRALAZINE**

DIHYDRO-BETA-ERYTHROIDINE see under **ALKALOIDS**

DIHYDROALPRENOLOL see under **ALPRENOLOL**

DIHYDROBENZOPYRENE DIOLS see **DIHYDROXYDIHYDROBENZOPYRENES**

DIHYDROCHOLESTEROL see under **CHOLESTEROL**

DIHYDRODIETHYLSTILBESTROL see **HEXESTROL**

7,8-DIHYDRO-7,8-DIHYDROXYBENZO(A)PYRENE 9,10-OXIDE see under **DIHYDROXYDIHYDROBENZOPYRENES**

DIHYDRODIOLBENZOPYRENES see **DIHYDROXYDIHYDROBENZOPYRENES**

DIHYDROERGOCORNINE see under **DIHYDROERGOTOXINE**

DIHYDROERGOCRISTINE see under **DIHYDROERGOTOXINE**

DIHYDROERGOCRYPTINE see under **DIHYDROERGOTOXINE**

DIHYDROERGOTAMINE

ADMINISTRATION & DOSAGE

Repetitive intravenous DHE in the treatment of refractory headache. Silberstein SD, et al. **Headache** 1990 May; 30(6):334-9

[Clinical experience in orthopedics: routine surgery of the hip] Leyvraz HF. **Vasa Suppl** 1989;27:171 **(Fre)**

[Dihydroergotamine as a nasal spray in the therapy of migraine attacks.Efficacy and tolerance] Jenzer G, et al. **Schweiz Rundsch Med Prax** 1990 Aug 2;79(31-32):914-7 (Eng. Abstr.) **(Ger)**

[Prevention of thromboembolism in para-articular femoral fractures of the hip--results of a prospective randomized study of heparin-DHE and ASS-DHE] Orthner E, et al. **Unfallchirurgie** 1990 Jun;16(3):128-38 (Eng. Abstr.) **(Ger)**

[Current drug prevention of thromboembolism within the scope of basic inpatient medical management] Wegner D, et al. **Z Arztl Fortbild (Jena)** 1990;84(7):317-9 **(Ger)**

ADVERSE EFFECTS

Dihydroergotamine interaction with propranolol [letter] Gandy W. **Ann Emerg Med** 1990 Feb;19(2):221

Dihydroergotamine/heparin in the prevention of deep-vein thrombosis after total hip replacement. A controlled, prospective, randomized multicenter trial [letter; comment] Ashenburg RJ. **J Bone Joint Surg [Am]** 1990 Jan;72(1):153 Comment on: J Bone Joint Surg [Am] 1988 Jan;70(1):2-10.

Pleural and retroperitoneal fibrosis from dihydroergotamine [letter] Malaquin F, et al. **N Engl J Med** 1989 Dec 21; 321(25):1760

[Dihydroergotamine--heparin in the prevention of thrombosis (letter)] Wille-Jørgensen PA. **Ugeskr Laeger** 1989 Oct 2;151(40):2599 **(Dan)**

[Complications of thromboembolic prophylaxis with heparin-dihydroergotamine] Rem JA, et al. **Agressologie** 1989 May;30(6):359-60 (Eng. Abstr.) **(Fre)**

[Generalized brain edema and cerebral infarct in ergotamine abuse: imaging by computerized tomography, magnetic resonance tomography and angiography] Toedt C, et al. **Digitale Bilddiagn** 1989 Sep;9(3):107-9 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Metabolism of dihydroergotamine by a cytochrome P-450 similar to that involved in the metabolism of macrolide antibiotics. Delaforge M, et al. **Xenobiotica** 1989 Nov; 19(11):1285-95

PHARMACOLOGY

Effects of dihydroergotamine on psychomotor function, neuroendocrine parameters and blood pressure, in healthy volunteers. Danjou P, et al. **Int Clin Psychopharmacol** 1989 Jan;4(1):71-83

[Duplex sonography of the popliteal vein using physiologic conditions and following intravenous administration of dihydroergotamine] Eichlisberger R, et al. **Vasa** 1989; 18(3):221-6 (Eng. Abstr.) **(Ger)**

[Effect of dihydroergotamine (DHE) on fetal hemodynamics] Goeschen K, et al. **Z Geburtshilfe Perinatol** 1989 Nov-Dec; 193(6):264-7 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Pelvic congestion in women: evaluation with transvaginal ultrasound and observation of venous pharmacology. Stones RW, et al. **Br J Radiol** 1990 Sep;63(753):710-1

Abortive versus prophylactic treatment of migraine--a reappraisal [editorial] Mathew NT. **Headache** 1990 Mar; 30(4):238-9

The effects of dihydroergotamine in patients with head injury and raised intracranial pressure. Grände PO. **Intensive Care Med** 1989;15(8):523-7

Clinical autonomic neuropharmacology. Polinsky RJ. **Neurol Clin** 1990 Feb;8(1):77-92 (67 ref.)

DHE-45 for acute migraine [letter; comment] Hagen N, et al. **Neurology** 1989 Oct;39(10):1408-9 Comment on: Neurology 1989 Apr;39(4):590-2.

[Flunarizine and dihydroergotamine in the treatment of migraine in children] Lastra Martínez L, et al. **An Esp Pediatr** 1990 Mar;32(3):213-8 (26 ref.) (Eng. Abstr.) **(Spa)**

DIHYDROERGOTOXINE

ADMINISTRATION & DOSAGE

Effects of intravenous high dose co-dergocrine mesylate ('Hydergine') in elderly patients with severe multi-infarct dementia: a double-blind, placebo-controlled trial. Arrigo A, et al. **Curr Med Res Opin** 1989;11(8):491-500

Hydergine treatment and psychophysiological measures in

primary degenerative dementia. Kuskowski MA, et al. **J Geriatr Psychiatry Neurol** 1990 Jan-Mar;3(1):41-7

[Comparison of the effectiveness of drug therapy, invasive and non-invasive acupuncture in migraine] Heydenreich A, et al. **Z Arztl Fortbild (Jena)** 1989;83(17):877-9 **(Ger)**

PHARMACOKINETICS

Effect of palmitoyl-DL-carnitine on the 3H-dihydroergotoxine intestinal absorption in rat. Martínková J, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):145-9

Platelet adrenoceptors and prostaglandin responses in depressed patients. Roy A, et al. **Psychiatry Res** 1989 Nov; 30(2):181-9

PHARMACOLOGY

Effects of dihydroergotoxine on some dopamine-related behaviors in rats. Flório JC, et al. **Gen Pharmacol** 1990; 21(4):411-5

Inhibition of aldosterone secretion by dopamine, ibopamine, and dihydroergotoxine in patients with congestive heart failure. Missale C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S72-6

Effects of Hydergine on platelet deposition on "active" human carotid artery lesions and platelet function. Steurer G, et al. **Thromb Res** 1989 Sep 1;55(5):577-89

The effect of hydergine on cyclosporine-induced nephrotoxicity in kidney allografted rats. Ijzermans JN, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1385-6

THERAPEUTIC USE

Pharmacological approaches in the treatment of senile dementia. Markstein R. **Eur Neurol** 1989;29 Suppl 3:33-41 (91 ref.)

Lack of efficacy of hydergine in patients with Alzheimer's disease [published erratum appears in N Engl J Med 1990 Sep 6;323(10):691] Thompson TL 2d, et al. **N Engl J Med** 1990 Aug 16;323(7):445-8

The effects of dihydroergocryptine on the neurological and enzyme disorders induced by cerebral ischaemia in rats. Cahn R, et al. **Resuscitation** 1989 Oct;18(1):37-48

Combination of a thiazide, a vasodilator and reserpine compared with methyldopa plus hydrochlorothiazide in the treatment of hypertension in Zimbabwe. Stein CM, et al. **S Afr Med J** 1990 Mar 3;77(5):243-5

Dihydroergotoxine (hydergine) to prevent cyclosporine nephrotoxicity in kidney transplant recipients. Vincent HH, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1737-8

Amelioration of preservation damage but not cyclosporine nephrotoxicity by dihydroergotoxine in kidney transplant recipients. A double-blind placebo-controlled trial. Brouwer ML, et al. **Transplantation** 1989 Nov;48(5):885-6

[Drug therapy of disorders of cerebral performance. Randomized comparative study of dihydroergotoxine and Ginkgo biloba extract] Gerhardt G, et al. **Fortschr Med** 1990 Jun 30;108(19):384-8 (Eng. Abstr.) **(Ger)**

[A thioridazine-dihydroergotoxine combination in the treatment of senile pruritus] Polenghi M, et al. **G Ital Dermatol Venereol** 1989 Sep;124(9):LI-LIII (Eng. Abstr.) **(Ita)**

[Neurologic status and changes in the cerebrospinal fluid of patients with complete ischemic cerebrovascular insult before and after therapy with Redergin] Panić M, et al. **Med Arh** 1984;38(2):73-81 (Eng. Abstr.) **(Scr)**

[Clinical and therapeutic experience in 151 consecutive protocolized cases with vertigo syndrome of cervical origin. Comparative study of a cinnarizine and dihydroergocristine combination with a cinnarizine and dihydroergocristine plus anti-inflammatory agents combination] Bartual J, et al. **Acta Otorrinolaringol Esp** 1988 Sep-Oct;39(5):331-8 (Eng. Abstr.) **(Spa)**

[Evaluation of the therapeutic effectiveness of a piracetam plus dihydroergocristine combination in the treatment of vertigo] López Martínez R. **Acta Otorrinolaringol Esp** 1988 Jul-Aug;39(4):287-8 **(Spa)**

[Hydergine in pathology of the inner ear] Jiménez-Cervantes Nicolás J, et al. **An Otorrinolaringol Ibero Am** 1990; 17(1):85-98 (Eng. Abstr.) **(Spa)**

DIHYDROFOLATE DEHYDROGENASE see **TETRAHYDROFOLATE DEHYDROGENASE**

DIHYDROFOLATE REDUCTASE see **TETRAHYDROFOLATE DEHYDROGENASE**

DIHYDROLIPOAMIDE DEHYDROGENASE see **LIPOAMIDE DEHYDROGENASE**

DIHYDROMORPHINE see under **MORPHINE DERIVATIVES**

DIHYDROMORPHINONE

Outpatient premedication: use of midazolam and opioid analgesics. Shafer A, et al. **Anesthesiology** 1989 Oct; 71(4):495-501

A comparison of oxymorphone and fentanyl as narcotic supplements in general anesthesia. Sinatra RS, et al. **J Clin Anesth** 1989;1(4):253-8

Human d-amphetamine drug discrimination: testing with d-amphetamine and hydromorphone. Lamb RJ, et al. **NIDA Res Monogr** 1989;95:423-4

ADMINISTRATION & DOSAGE

Inpatient narcotic infusions for patients with cancer pain. Ferris FD, et al. **J Palliat Care** 1990 Summer;6(2):51-9

ADVERSE EFFECTS

Myoclonic seizure activity with chronic high-dose spinal opioid administration. Parkinson SK, et al. **Anesthesiology** 1990 Apr;72(4):743-5

ANALOGS & DERIVATIVES

Naloxone reversal of oxymorphone effects in dogs. Copland VS, et al. **Am J Vet Res** 1989 Nov;50(11):1854-8

Depression of ventilatory responses to hypoxia and hypercapnia after pentamorphone. Afifi MS, et al. **Anesth Analg** 1990 Oct;71(4):377-83

An evaluation of morphine and oxymorphone administered via patient-controlled analgesia (PCA) or PCA plus basal infusion in postcesarean-delivery patients. Sinatra R, et al. **Anesthesiology** 1989 Oct;71(4):502-7

Affinity labeling of mu opioid receptors by sulfhydryl alkylating derivatives of morphine and morphinone. Bidlack JM, et al. **Mol Pharmacol** 1990 Jan;37(1):50-9

Quaternary naloxone blocks morphine analgesia in spinal but not intact rats. Milne RJ, et al. **Neurosci Lett** 1990 Jul 13; 114(3):259-64

A spirohydantoin derivative of oxymorphone: an agonist with delayed antagonist activity. Alexander GJ, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):939-43

METABOLISM

Simultaneous extraction and chromatographic analysis of morphine, dilaudid, naltrexone and naloxone in biological fluids by high-performance liquid chromatography with electrochemical detection. O'Connor EF, et al. **J Chromatogr** 1989 Jun 30;491(1):240-7

PHARMACOKINETICS

Brain and plasma kinetics of the opioid 11C-hydromorphone in two macaque species. Hartvig P, et al. **Pharmacol Toxicol** 1989 Sep;65(3):214-6

THERAPEUTIC USE

Clinical analgesic assay of repeated and single doses of heroin and hydromorphone. Wallenstein SL, et al. **Pain** 1990 Apr; 41(1):5-13

DIHYDROOLEIC ACIDS see **STEARIC ACIDS**

DIHYDRO-OROTASE see under **AMIDOHYDROLASES**

DIHYDRO-OROTATE OXIDASE see under **OXIDOREDUCTASES**

DIHYDROPROGESTERONE see under **PROGESTERONE**

DIHYDROPTERIDINE REDUCTASE see under **NADH, NADPH OXIDOREDUCTASES**

DIHYDROPTEROATE SYNTHASE see under **TRANSFERASES**

DIHYDROPYRIDINES

Dihydropyrimidine calcium channel blockers. 2. 3-substituted-4-aryl-1,4-dihydro-6-methyl-5-pyrimidinecarboxylic acid esters as potent mimics of dihydropyridines. Atwal KS, et al. **J Med Chem** 1990 Sep; 33(9):2629-35

Antihypertensive activity of redox derivatives of tryptophan. Pop E, et al. **J Med Chem** 1990 Aug;33(8):2216-21

ADVERSE EFFECTS

Oxodipine-induced gingival hyperplasia in beagle dogs. Nyska A, et al. **Am J Pathol** 1990 Sep;137(3):737-9

Pathologic changes in blood vessels following administration of an inotropic vasodilator (ICI 153,110) to the rat. Westwood FR, et al. **Fundam Appl Toxicol** 1990 May; 14(4):797-809

ANALYSIS

Subunit composition of the purified dihydropyridine binding protein from skeletal muscle. Hamilton SL, et al. **Biochemistry** 1989 Sep 19;28(19):7820-8

Determination of 2,6-dimethyl-4-(2'-nitrosophenyl)-3,5-pyridinedicarboxylic acid dimethylester in nifedipine by derivative UV-spectrophotometry in bulk material and pharmaceutical forms. Carlucci G, et al. **Farmaco** 1990 Jun; 45(6 Suppl):751-5

BLOOD

Determination of manidipine and its pyridine metabolite in human serum by high-performance liquid chromatography with ultraviolet detection and column switching. Miyabayashi T, et al. **J Chromatogr** 1989 Sep 29;494:209-17

Enantioselective determination of felodipine and other chiral dihydropyridine calcium entry blockers in human plasma. Soons PA, et al. **J Chromatogr** 1990 Jun 29;528(2):343-56

Improved radioreceptor assay for the determination of plasma levels of dihydropyridine calcium channel blockers in humans. Quennedey MC, et al. **Ther Drug Monit** 1989 Sep;11(5):598-606

CHEMICAL SYNTHESIS

Synthesis and selective vasodilating properties of esters of 2,6-dimethyl-4-(2-difluoromethoxyphenyl)-1,4-dihydro-pyridine-3,5-di- carboxylic acid. Dubur GJ, et al. **Arzneimittelforschung** 1989 Oct;39(10):1185-9

Synthesis of some 1,4-dihydropyridine derivatives and their calcium antagonistic activity. Safak C, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):119-22

Synthesis of novel 2-chloro-1,4-dihydropyridines by chlorination of 2-hydroxy-1,4-dihydropyridines with phosphorus oxychloride. Cho H, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug;37(8):2117-21

Synthesis and biological activities of optical isomers of 2-(4-diphenylmethyl-1-piperazinyl)ethyl methyl 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylate (manidipine) dihydrochloride. Kajino M, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug; 37(8):2225-8

Synthesis and antiallergic activity of N-[4-(4-diphenylmethyl-1-piperazinyl)butyl]-1,4-dihydro-4-oxopyridine-3 - carboxamides. Nishikawa Y, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1256-9

Long-acting dihydropyridine calcium antagonists. 3. Synthesis and structure-activity relationships for a series of 2-[(heterocyclylmethoxy)methyl] derivatives. Alker D, et al. **J Med Chem** 1989 Oct;32(10):2381-8

Long-acting dihydropyridine calcium antagonists. 4. Synthesis and structure-activity relationships for a series of basic and nonbasic derivatives of 2-[(2-aminoethoxy)methyl]-1,4-dihydropyridine calcium antagonists. Alker D, et al. **J Med Chem** 1990 Feb; 33(2):585-91

Design of an antithrombotic-antihypertensive agent (Wy 27569). Synthesis and evaluation of a series of 2-heteroaryl-substituted dihydropyridines. Archibald JL, et al. **J Med Chem** 1990 Feb;33(2):646-52

Synthesis and antihypertensive activity of 4-(1,2-dihydro-2-oxo-1-pyridyl)-2H-1-benzopyrans and related compounds, new potassium channel activators. Bergmann R, et al. **J Med Chem** 1990 Feb;33(2):492-504

Synthesis, pharmacological effects, and conformation of 4,4-disubstituted 1,4-dihydropyridines. Goldmann S, et al. **J Med Chem** 1990 May;33(5):1413-8

Syntheses and bioevaluation of substituted dihydropyridines for pregnancy-interceptive activity in hamsters. Mukherjee A, et al. **J Med Chem** 1989 Oct;32(10):2297-300

Synthesis of substituted 7,12-dihydropyrido[3,2-b:5,4-b']diindoles: rigid planar benzodiazepine receptor ligands with inverse agonist/antagonist properties. Trudell ML, et al. **J Med Chem** 1990 Sep;33(9):2412-20

Vinylogous and coupled hexahydroquinolinones and dihydropyridines with calcium-modulating effects. Rose U. **Pharm Acta Helv** 1990;65(7):178-85

[Calcium modulators of the anellated dihydropyridine type. Synthesis and pharmacologic action] Rose U. **Arzneimittelforschung** 1989 Nov;39(11):1393-8 (Eng. Abstr.) **(Ger)**

[Potential cardiotonic agents. 4. Synthesis, cardiovascular activity, molecular and crystal structure of 5-phenyl- and 4-(4-pyridinyl)-substituted 2(1H)-pyridinethiones] Hagen V, et al. **Pharmazie** 1989 Dec;44(12):809-13 (Eng. Abstr.) **(Ger)**

METABOLISM

Relaxation of potassium chloride-induced contractions by amlodipine and its interaction with the 1,4-dihydropyridine-binding site in pig coronary artery. Matlib MA. **Am J Cardiol** 1989 Nov 7;64(17):51I-57I

Cortical dihydropyridine binding sites are unaltered in human alcoholic brain. Kril JJ, et al. **Ann Neurol** 1989 Sep; 26(3):395-7

Interaction of the dihydropyridine calcium antagonist, CD-349, with calmodulin. Tanaka M, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):991-6

Dihydropyridine binding to the L-type Ca2+ channel in rabbit heart sarcolemma and skeletal muscle transverse-tubules: role of disulfide, sulfhydryl and phosphate groups. Murphy BJ, et al. **Biochim Biophys Acta** 1990 May 2;1052(2):333-9

A five-coordinate copper complex with superoxide dismutase mimetic activity from Streptomyces antibioticus. Schechinger T, et al. **Biol Met** 1988;1(2):112-6

Cortical dihydropyridine binding sites and a behavioral syndrome in morphine-abstinent rats. Antkiewicz-Michaluk L, et al. **Eur J Pharmacol** 1990 May 3;180(1):129-35

Stereoselective binding of niguldipine enantiomers to alpha 1A-adrenoceptors labeled with [3H]5-methyl-urapidil. Graziadei I, et al. **Eur J Pharmacol** 1989 Oct 17; 172(4-5):329-37

Calcium binding to extracellular sites of skeletal muscle calcium channels regulates dihydropyridine binding. Ebata H, et al. **J Biol Chem** 1990 Jan 5;265(1):177-82

The role of cyclic AMP and the dihydropyridine-sensitive channels on the mechanism of action of milrinone (Corotrope). Frangakis CJ, et al. **J Cardiovasc Pharmacol** 1989 Jun;13(6):915–24

Uptake of CD–349 and nitrendipine into bovine intrapulmonary artery and vein. Tanaka M, et al. **J Pharmacobiodyn** 1989 Apr;12(4):228–34

Effect of inorganic calcium channel blockers on dihydropyridine binding to cardiac sarcolemma. Schilling WP, et al. **Mol Pharmacol** 1990 Jan;37(1):80–9

[3H]HOE166 defines a novel calcium antagonist drug receptor—distinct from the 1,4 dihydropyridine binding domain. Grassegger A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;340(6 Pt 2):752–9

Metabolism of a new dihydropyridine calcium antagonist in rats and dogs. Takayama F, et al. **Xenobiotica** 1989 Dec; 19(12):1407–20

PHARMACOKINETICS

Desferrithiocin and desferrioxamine B. Cellular pharmacology and storage iron mobilization. Jin Y, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3233–40

Transport of the multidrug resistance modulators verapamil and azidopine in wild type and daunorubicin resistant Ehrlich ascites tumour cells. Sehested M, et al. **Br J Cancer** 1990 Jul;62(1):37–41

Brain targeting of anti–HIV nucleosides: synthesis and in vitro and in vivo studies of dihydropyridine derivatives of 3'–azido–2',3'–dideoxyuridine and 3'–azido–3'–deoxythymidine. Chu CK, et al. **J Med Chem** 1990 Aug;33(8):2188–92

PHARMACOLOGY

Dihydropyridino–sensitive calcium channels in opioid–induced thermic and behavioral effects. Cavicchini E, et al. **Acta Physiol Hung** 1990;75 Suppl:55–6

New dihydropyridine compound (GYKI–46 544) with bradycardiac and vasodilatory effects. Rabloczky G, et al. **Acta Physiol Hung** 1990;75 Suppl:239–40

Comparison of the cardiovascular effects of three dihydropyridine compounds. Nagura J, et al. **Arch Int Pharmacodyn Ther** 1989 Nov–Dec;302:174–85

Inhibition of 3H–nitrendipine binding in rat aortic and cerebral cortex membranes by the new dihydropyridine calcium antagonist benidipine hydrochloride. Ishii A. **Arzneimittelforschung** 1989 Dec;39(12):1546–50

Antihypertensive effect of a new dihydropyridine calcium entry blocker in conscious hypertensive and normotensive rats. Nomura M, et al. **Arzneimittelforschung** 1989 Dec; 39(12):1542–5

Xanthone 1,4–dihydropyridine derivatives with a potent selective bradycardic effect. Valenti P, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):122–5

Role of calcium on protein phosphorylation in collagen–stimulated platelets. Effect of a new dihydropyridine derivative. Catalán RE, et al. **Biochem Int** 1989 Oct;19(4):919–28

Analysis and functional characteristics of dihydropyridine–sensitive and –insensitive calcium channel proteins. Dascal N. **Biochem Pharmacol** 1990 Sep 15; 40(6):1171–8 (104 ref.)

Effects of the novel dihydropyridine derivative niguldipine on the cytoplasmic free calcium concentration of mouse thymocytes. Drozd MP, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):955–9

Antiperoxidant effects of dihydropyridine calcium antagonists. Janero DR, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4344–8

Toward an understanding of the dihydropyridine–sensitive calcium channel. McKenna E, et al. **Biochem Pharmacol** 1990 Apr 1;39(7):1145–50 (36 ref.)

Enhancement by neuropeptide Y (NPY) of the dihydropyridine–sensitive component of the response to alpha 1–adrenoceptor stimulation in rat isolated mesenteric arterioles. Andriantsitohaina R, et al. **Br J Pharmacol** 1990 Feb;99(2):389–95

The effects of dihydropyridine compounds in behavioural tests of dopaminergic activity. Bourson A, et al. **Br J Pharmacol** 1989 Dec;98(4):1312–8

RS 30026: a potent and effective calcium channel agonist. Patmore L, et al. **Br J Pharmacol** 1990 Apr;99(4):687–94

Niguldipine discriminates between alpha 1–adrenoceptor–mediated second messenger responses in rat cerebral cortex slices. Robinson JP, et al. **Br J Pharmacol** 1990 May;100(1):3–4

The central and regional cardiovascular responses to intravenous and intracoronary administration of the phenyldihydropyridine elgodipine in anaesthetized pigs. Sassen LM, et al. **Br J Pharmacol** 1990 Feb;99(2):355–63

The role of dihydropyridine–sensitive voltage–gated calcium channels in potassium–mediated neuronal survival. Collins F, et al. **Brain Res** 1989 Nov 13;502(1):99–108

3,5–Diethoxycarbonyl–2,6–dimethyl–4–ethyl–1,4–dihydropyridine inactivates rat liver cytochrome P–450c, but not its orthologue, rabbit lung form 6. Riddick DS, et al. **Can J Physiol Pharmacol** 1990 Mar;68(3):370–3

Reversal of multidrug resistance by new dihydropyridines with lower calcium antagonistic activity. Yoshinari T, et al. **Cancer Chemother Pharmacol** 1989;24(6):367–70

Activities of newly synthesized dihydropyridines in overcoming of vincristine resistance, calcium antagonism, and inhibition of photoaffinity labeling of P–glycoprotein in rodents. Kiue A, et al. **Cancer Res** 1990 Jan 15; 50(2):310–7

Effects of calcium antagonists in multidrug resistance primary human renal cell carcinomas. Mickisch GH, et al. **Cancer Res** 1990 Jun 15;50(12):3670–4

Functional expression of dihydropyridine–insensitive calcium channels during PC12 cell differentiation by nerve growth factor (NGF), oncogenic ras, or src tyrosine kinase. Rausch DM, et al. **Cell Mol Neurobiol** 1990 Jun;10(2):237–55

Binding of [125I]iodipine to parathyroid cell membranes: evidence of a dihydropyridine–sensitive calcium channel. Jones JI, et al. **Endocrinology** 1990 Apr;126(4):2015–20

Calcium release from pituitary secretory granules: modulation by thiols, disulfides, and dihydropyridine calcium channel blockers. Lorenson MY, et al. **Endocrinology** 1990 May;126(5):2671–8

Anticonvulsant effects of dihydropyridine Ca2+ antagonists in electrocortical shock seizures. Meyer FB, et al. **Epilepsia** 1990 Jan–Feb;31(1):68–74

Increased calcium sensitivity in isolated resistance arteries from spontaneously hypertensive rats: effects of dihydropyridines. Boonen HC, et al. **Eur J Pharmacol** 1990 Apr 25;179(3):403–12

Interaction between isoproterenol and dihydropyridines in heart cells. Briand V, et al. **Eur J Pharmacol** 1989 Jul 18; 166(2):339–43

Omega–conotoxin GVIA and dihydropyridines discriminate two types of Ca2+ channels involved in GABA release from striatal neurons in culture. Pin JP, et al. **Eur J Pharmacol** 1990 Jan 23;188(1):81–4

Two subtypes of dihydropyridine–sensitive calcium channels in rat ventricular muscle. Saxon M, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):37–45

Modulation of dihydropyridine–sensitive calcium channels: a role for G proteins. Bergamaschi S, et al. **Eur Neurol** 1990;30 Suppl 2:16–20; discussion 39–41

Central neurochemical effects of dihydropyridine calcium antagonists. Huguet F. **Fundam Clin Pharmacol** 1989;3 Suppl:31s–46s (102 ref.)

Central cardiovascular effects of dihydropyridines in spontaneously hypertensive rats. Laurent S, et al. **Fundam Clin Pharmacol** 1989;3 Suppl:47s–56s (38 ref.)

Cardiovascular properties of LF 2.0254, a new potent vasoselective calcium channel blocker with a slow onset of action. Pruneau D, et al. **Fundam Clin Pharmacol** 1990; 4(2):223–43

Dihydropyridines on guinea–pig ileum. Martin I, et al. **Gen Pharmacol** 1990;21(1):41–4

New generation dihydropyridine calcium entry blockers: in search of greater selectivity for one tissue subtype. Ohtsuka M, et al. **Gen Pharmacol** 1989;20(5):539–56 (143 ref.)

Induction of cytochrome P–450 RNA by porphyrogenic agents: on the nature of the coordinate induction with delta–aminolevulinate synthase in tissues of the chicken embryo. Drew PD, et al. **Int J Biochem** 1990;22(6):607–10

Molecular characterization of 1,4–dihydropyridine–sensitive calcium channels of chick heart and skeletal muscle. Yoshida A, et al. **J Biochem (Tokyo)** 1990 Apr; 107(4):608–12

Vitamin D3 metabolites modulate dihydropyridine–sensitive calcium currents in clonal rat osteosarcoma cells. Caffrey JM, et al. **J Biol Chem** 1989 Dec 5;264(34):20265–74

Cardiac electrophysiologic effects of a new calcium antagonist, lacidipine. Cerbai E, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):604–9

Lacidipine: a calcium antagonist with potent and long–lasting antihypertensive effects in animal studies. Micheli D, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):666–75

Antihypertensive activity of OPC–13340, a new potent and long–acting dihydropyridine calcium antagonist, in rats. Nakayama N, et al. **J Cardiovasc Pharmacol** 1990 May; 15(5):836–44

Menthol blocks dihydropyridine–insensitive Ca2+ channels and induces neurite outgrowth in human neuroblastoma cells. Sidell N, et al. **J Cell Physiol** 1990 Feb;142(2):410–9

Drug–induced decrease of serum alanine and aspartate aminotransferase activity in the rat, as a result of treatment with oxodipine, a new calcium channel blocker. Waner T, et al. **J Clin Chem Clin Biochem** 1990 Jan;28(1):25–30

Internal and external effects of dihydropyridines in the calcium channel of skeletal muscle. Valdivia HH, et al. **J Gen Physiol** 1990 Jan;95(1):1–27

Diuresis and natriuresis after dihydropyridines: role of prostaglandin E. Chellingsworth MC, et al. **J Hum Hypertens** 1990 Jun;4(3):241–5

Long–acting dihydropyridine calcium antagonists. 5. Synthesis and structure–activity relationships for a series of 2–[[(N–substituted–heterocyclyl)ethoxy]methyl]–1,4–dihydropyridine calcium antagonists. Alker D, et al. **J Med Chem** 1990 Jun;33(6):1805–11

4–Isoxazolyl–1,4–dihydropyridines: biological, theoretical, and structural studies. Natale NR, et al. **J Med Chem** 1990 Aug;33(8):2255–9

Involvement of dihydropyridine–sensitive Ca2+ channels in adenosine–evoked inhibition of acetylcholine release from guinea pig ileal preparation. Katsuragi T, et al. **J Neurochem** 1990 Aug;55(2):363–9

Dihydropyridine actions on calcium currents of frog sympathetic neurons. Jones SW, et al. **J Neurosci** 1990 Jul; 10(7):2261–7

Study of the structure–activity relationships of new dihydropyridine derivatives. Suzuki K, et al. **J Pharmacobiodyn** 1989 May;12(5):293–8

Pharmacological profiles of YM–16151–1 and its optical isomers: a novel calcium entry blocking and selective beta–1 adrenoceptor blocking agent. Asano M, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):204–11

Comparative behavioral, neurochemical and pharmacological activities of dihydropyridine calcium channel activating drugs. O'Neill SK, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):905–12

Dihydropyridine–sensitive low–threshold calcium channels in isolated rat hypothalamic neurones. Akaike N, et al. **J Physiol (Lond)** 1989 May;412:181–95

Molecular modeling study of calcium channel activating and blocking 1,4–dihydropyridine derivatives: a hypothetical molecular receptor model. Marrer S, et al. **J Protein Chem** 1989 Jun;8(3):420–1

Slow onset of and recovery from Ca blocking action of benidipine in rat aorta and portal vein. Gotoh Y, et al. **Jpn J Pharmacol** 1989 Sep;51(1):37–45

Effects of CV–4093, a new dihydropyridine calcium channel blocker, on renal hemodynamics and function in stroke–prone spontaneously hypertensive rats (SHRSP). Morimoto S, et al. **Jpn J Pharmacol** 1989 Oct;51(2):257–65

Effects of a new dihydropyridine derivative, CV–4093.2HCl, on renal hemodynamics in spontaneously hypertensive rats. Nagaoka A, et al. **Jpn J Pharmacol** 1989 Sep;51(1):25–35

Natriuretic action of manidipine hydrochloride, a new calcium channel blocker, in spontaneously hypertensive rats. Nagaoka A, et al. **Jpn J Pharmacol** 1989 Oct; 51(2):299–301

Effects of S–312, a new calcium antagonist, on the mechanical and electrophysiological responses of isolated cardiovascular preparations. Ninomiya M, et al. **Jpn J Pharmacol** 1989 Oct;51(2):227–38

Antihypertensive effects of CS–905, a novel dihydropyridine Ca++ channel blocker. Oizumi K, et al. **Jpn J Pharmacol** 1989 Sep;51(1):57–64

Antihypertensive effect of CS–905, a novel dihydropyridine calcium blocker, in conscious hypertensive dogs. Oizumi K, et al. **Jpn J Pharmacol** 1990 Jun;53(2):264–6

Beneficial renal effects of CS–905, a novel dihydropyridine calcium blocker, in SHR. Oizumi K, et al. **Jpn J Pharmacol** 1989 Dec;51(4):501–8

Effects of 4–alkyl analogues of 3,5–diethoxycarbonyl–1,4–dihydro–2,4,6–trimethylpyridine on hepatic cytochrome P–450 heme, apoproteins, and catalytic activities following in vivo administration to rats. Riddick DS, et al. **Mol Pharmacol** 1990 Jan;37(1):130–6

A comparative study of the antimutagenic effects of antioxidants on chemical mutagenesis in Drosophila melanogaster. Goncharova RI, et al. **Mutat Res** 1989 Oct; 214(2):257–65

Investigations of the roles of dihydropyridine and omega–conotoxin–sensitive calcium channels in mediating depolarisation–evoked endogenous dopamine release from striatal slices. Herdon H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Jul; 340(1):36–40

The interactions of 1,4–dihydropyridines bearing a 2–(2–aminoethylthio)methyl substituent at voltage–dependent Ca2+ channels of smooth muscle, cardiac muscle and neuronal tissues. Kwon YW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan–Feb; 341(1–2):128–36

Thyroliberin and dihydropyridines modulate prolactin gene expression through interacting pathways in GH3 cells. Laverrière JN, et al. **Neuroendocrinology** 1989 Dec; 50(6):693–701

Subunit structure and localization of dihydropyridine–sensitive calcium channels in mammalian brain, spinal cord, and retina. Ahlijanian MK, et al. **Neuron** 1990 Jun;4(6):819–32

Genetic regulation of dihydropyridine–sensitive calcium channels in brain may determine susceptibility to physical dependence on alcohol. Brennan CH, et al. **Neuropharmacology** 1990 May;29(5):429–32

Modulation of solitarial deglutitive N–methyl–D–aspartate receptors by dihydropyridines. Hashim MA, et al. **Neuropharmacology** 1989 Sep;28(9):923–9

Characterization of the calcium channel state transitions induced by the enantiomers of the 1,4–dihydropyridine Sandoz 202 791 in neonatal rat heart cells. A nonmodulated receptor model. Hering S, et al. **Pflugers Arch** 1989 Sep; 414(6):690–700

The effects of strychnine on the regulation of voltage–dependent calcium channels by dihydropyridines in brain and heart. O'Neill SK, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):833–40

Dihydropiridine inhibition of K+ and maitotoxin stimulated calcium fluxes in PC12 cells: effect of pertussis toxin. Meucci O, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:1–2

Comparative anti–ischemic effects of dihydropyridine calcium antagonists in isolated perfused rat hearts: relationship of cardiodepression and cardioprotection. Grover GJ, et al. **Pharmacology** 1990;40(3):137–49

Opiate analgesia and calcium channels modulation by dihydropyridines under acute and tolerant conditions. Flórez J, et al. **Prog Clin Biol Res** 1990;328:461–4

Yawning induced by apomorphine, physostigmine or

pilocarpine is potentiated by dihydropyridine calcium channel blockers. Bourson A, et al. **Psychopharmacology (Berl)** 1990;100(2):168–72

Primary structure of the gamma subunit of the DHP-sensitive calcium channel from skeletal muscle. Jay SD, et al. **Science** 1990 Apr 27;248(4954):490–2

Calcium channel blockers reverse the sustained elevation of blood pressure induced by chronic infusion of endothelin in conscious rats. Yasujima M, et al. **Tohoku J Exp Med** 1990 Feb;160(2):157–65

1,4-Dihydropyridine activators and antagonists: structural and functional distinctions. Triggle DJ, et al. **Trends Pharmacol Sci** 1989 Dec;10(12):507–11 (31 ref.)

[Effect on atrioventricular conduction of a new calcium antagonist: lacidipine. Evaluation by the Holter method] Frank R, et al. **Ann Cardiol Angeiol (Paris)** 1990 Jun; 39(6):363–9 (Eng. Abstr.) **(Fre)**

[Decrease of the contraction force of skeletal muscle in mammals by the potassium channel activator, SR 44866] Findlay I, et al. **C R Acad Sci [III]** 1990;310(11):489–94 (Eng. Abstr.) **(Fre)**

[Angiographic studies on the effects of a novel calcium antagonist AE0047 on cerebral arteries in dogs, with special reference to the preventive effects of AE0047 on cerebral vasoconstriction induced by endothelin] Kido H, et al. **Nippon Yakurigaku Zasshi** 1990 Apr;95(4):177–84 (Eng. Abstr.) **(Jpn)**

[Calcium channels and calcium antagonists] Imai S. **Tanpakushitsu Kakusan Koso** 1988 Sep;33(12):1862–76 **(Jpn)**

[Cardioprotective properties of a 1,4-dihydropyridine derivative, glutapyrone, in deep hypothermia] Utno LIa, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):558–61 (Eng. Abstr.) **(Rus)**

[The effect of dihydropyridines on the strontium and calcium content in frog muscle] Shvinka NE, et al. **Tsitologiia** 1989 Nov;31(11):1358–62 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Successful chemotherapy of experimental neuroendocrine lung tumors in hamsters with an antagonist of Ca2+/calmodulin. Schuller HM, et al. **Cancer Res** 1990 Mar 1;50(5):1645–9

The effect of dihydropyridine calcium antagonists in hypertensive patients with impaired renal function. Hansson LH. **J Cardiovasc Pharmacol** 1989;14 Suppl 10:S36–9; discussion S59–62 (20 ref.)

Haemodynamic parameters in hypertensive patients: changes induced by lacidipine and nifedipine. Pancera P, et al. **J Hypertens Suppl** 1989 Dec;7(6):S284–5

Antihypertensive dihydropyridines with 1,4,4-trisubstitution. Kukla MJ, et al. **J Med Chem** 1990 Jan;33(1):223–8

The antiseizure activity of dihydropyridine calcium channel antagonists in the conscious rat. Morón MA, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1150–5

Desferrithiocin. Wolfe LC. **Semin Hematol** 1990 Apr; 27(2):117–20

[Dihydropyridines are not the only antihypertensives. Calcium blockers in the therapy of elderly hypertensive patients] **Fortschr Med** 1989;107 Suppl 71:1–18 **(Ger)**

[The modifying effect of a hypoxic gas mixture on the development of radiation-induced sclerosis] Dubrovskaja VF, et al. **Radiobiol Radiother (Berl)** 1990;31(1):79–84 (Eng. Abstr.) **(Ger)**

TOXICITY

Gingival hyperplasia in rats induced by oxodipine—a calcium channel blocker. Nyska A, et al. **J Periodont Res** 1990 Mar; 25(2):65–8

URINE

Dihydropyrimidinuria [letter] Duran M, et al. **Lancet** 1990 Sep 29;336(8718):817–8

DIHYDROSTREPTOMYCIN

METABOLISM

Uptake of antibiotics by Plasmodium falciparum in culture. Geary TG, et al. **Am J Trop Med Hyg** 1988 May; 38(3):466–9

THERAPEUTIC USE

Antimicrobial therapy for rams with Brucella ovis infection of the urogenital tract. Dargatz DA, et al. **J Am Vet Med Assoc** 1990 Feb 15;196(4):605–10

DIHYDROTACHYSTEROL

ADVERSE EFFECTS

Hypercalcemia in a calcitriol-treated hypoparathyroid woman during lactation. Caplan RH, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 2):485–9

THERAPEUTIC USE

History and organization of the Growth Failure in Children with Renal Diseases Study. Chan JC, et al. **J Pediatr** 1990 Feb;116(2):S3–7

Protocol of the Growth Failure in Children with Renal Diseases Study. Chan JC, et al. **J Pediatr** 1990 Feb; 116(2):S17–21

Statistical methods and determination of sample size in the Growth Failure in Children with Renal Diseases Study. Chinchilli VM, et al. **J Pediatr** 1990 Feb;116(2):S32–6

Masking procedure, randomization and stratification, and compliance monitoring in the Growth Failure in Children with Renal Diseases Study. Shasky DA, et al. **J Pediatr** 1990 Feb;116(2):S22–3

DIHYDROTESTOSTERONE see **STANOLONE**

DIHYDROXYACETONE see under **TRIOSES**

DIHYDROXYACETONE PHOSPHATE see under **TRIOSES**

M-DIHYDROXYBENZENES see **RESORCINOLS**

O-DIHYDROXYBENZENES see **CATECHOLS**

P-DIHYDROXYBENZENES see **HYDROQUINONES**

DIHYDROXYBUTANES see **BUTANEDIOLS**

1 ALPHA,25-DIHYDROXYCHOLECALCIFEROL see **CALCITRIOL**

1,25-DIHYDROXYCHOLECALCIFEROL see **CALCITRIOL**

24,25-DIHYDROXYCHOLECALCIFEROL see **24,25-DIHYDROXYVITAMIN D 3**

DIHYDROXYCHOLECALCIFEROLS

BLOOD

Effect of occupational lead exposure on serum 1,25-dihydroxyvitamin D levels. Mason HJ, et al. **Hum Exp Toxicol** 1990 Jan;9(1):29–34

Serum vitamin D metabolites in cadmium-exposed persons with renal damage. Nogawa K, et al. **Int Arch Occup Environ Health** 1990;62(3):189–93

Production and metabolic clearance of 1,25-dihydroxyvitamin D in men: effect of advancing age. Halloran BP, et al. **J Clin Endocrinol Metab** 1990 Feb; 70(2):318–23

Vitamin D and mineral metabolism in the very low birth weight infant receiving 400 IU of vitamin D. Cooke R, et al. **J Pediatr** 1990 Mar;116(3):423–8

Effect of vitamin D3 administration on serum 25-hydroxyvitamin D3, 1,25-dihydroxyvitamin D3 and osteocalcin in vitamin D-deficient elderly people. Guillemant S, et al. **J Steroid Biochem** 1989 Dec; 33(6):1155–9

[1,25-Dihydroxyvitamin D3 receptors in lymphocytes and T- and B-lymphocyte count in patients with glomerulonephritis] Sergeev IN, et al. **Vopr Med Khim** 1989 Nov-Dec;35(6):117–21 (Eng. Abstr.) **(Rus)**

[Effect of active metabolites of vitamin D on manifestations of primary hyperparathyroidism] Riancho JA, et al. **Med Clin (Barc)** 1989 Oct 7;93(10):361–4 (Eng. Abstr.) **(Spa)**

METABOLISM

A role for endogenous arachidonate metabolites in the regulated expression of the 25-hydroxyvitamin D-1-hydroxylation reaction in cultured alveolar macrophages from patients with sarcoidosis. Adams JS, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):595–600

[Abnormal synthesis of 1,25-dihydroxyvitamin D and hypercalcemia in children with tuberculosis] Saggese G, et al. **Pediatr Med Chir** 1989 Sep-Oct;11(5):529–32 (Eng. Abstr.) **(Ita)**

PHARMACOLOGY

Effect on carbon lengthening at the side chain terminal of 1 alpha,25-dihydroxyvitamin D3 for calcium regulating activity. Eguchi T, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1246–9

1 alpha,25(OH)2D3 exerts cytostatic effects on murine osteosarcoma cells and enhances the cytocidal effects of anticancer drugs. Tanaka H, et al. **Clin Orthop** 1989 Oct; (247):290–6

Effect of 1,25-dihydroxycholecalciferol on fracture healing and on general posttraumatic skeletal response in rats. Blahoł J, et al. **Endocrinol Exp** 1989 Dec;23(4):287–94

Effect of 1,24R-dihydroxyvitamin D3 on the growth of human keratinocytes. Matsumoto K, et al. **J Dermatol** 1990 Feb;17(2):97–103

1,24(R)-dihydroxyvitamin D3, a novel active form of vitamin D3 with high activity for inducing epidermal differentiation but decreased hypercalcemic activity. Matsunaga T, et al. **J Dermatol** 1990 Mar;17(3):135–42

Age-dependent stimulation or inhibition of calcium release from bone cultures by 1 alpha, 25-dihydroxyvitamin D3. Goldhaber P, et al. **Mech Ageing Dev** 1989 Sep; 49(3):199–209 (34 ref.)

DIHYDROXYDIHYDROBENZOPYRENES

A rapid method for isolation of human hemoglobin benzo[a]pyrene diol epoxide derived adducts using high performance liquid chromatography. Naylor S, et al. **Biomed Chromatogr** 1989 Nov;3(6):266–8

Linear dichroism properties and orientations of different ultraviolet transition moments of benzo[a]pyrene derivatives bound noncovalently and covalently to DNA. Roche CJ, et al. **Biophys Chem** 1989 Jul;33(3):277–88

Excimer fluorescence of (+)-anti-benzo (a)pyrene diol epoxide covalently bound to poly(dG-dC): structural implications. Eriksson M, et al. **Biopolymers** 1990 Jul-Aug 5;29(8–9):1249–60

Preparation and isolation of adducts in high yield derived from the binding of two benzo[a]pyrene-7,8-dihydroxy-9,10-oxide stereoisomers to the oligonucleotide d(ATATGTATA). Cosman M, et al. **Carcinogenesis** 1990 Sep;11(9):1667–72

Computer modelling studies of the covalent interactions between DNA and the enantiomers of anti-7,8-diol,9,10-epoxy-benzo[a]pyrene. Aggarwal AK, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):873–81

Binding of enantiomers of trans-7,8-dihydroxy-anti-9,10-epoxy-7,8,9,10-tetrahydro-benzo[a]pyrene to polynucleotides. Chen FM. **J Biomol Struct Dyn** 1986 Dec;4(3):401–18

Stereoselective covalent binding of anti-benzo(a)pyrene diol epoxide to DNA conformation of enantiomer adducts. Geacintov NE, et al. **J Biomol Struct Dyn** 1984 Jun; 1(6):1473–84

Linear dichroism studies of conformations of carcinogen-DNA adducts application to covalent complexes derived from the reactions of the two enantiomers of 9,10-epoxy-9,10,11,12-tetrahydrobenzo(e)pyrene with DNA. Geacintov NE, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):913–23

A conformational analysis of the (+) anti BPDE adduct to the guanine amino group of dCpdG. Hingerty B, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):905–12

Interactions of molecules with nucleic acids. X. Covalent intercalative binding of the carcinogenic BPDE I(+) to kinked DNA. Taylor ER, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):883–904

ANALYSIS

Polycyclic aromatic hydrocarbon-DNA adducts in lung tissue from lung cancer patients. van Schooten FJ, et al. **Carcinogenesis** 1990 Sep;11(9):1677–81

Comparison of the formation of benzo[a]pyrene diolepoxide-DNA adducts in vitro by rat and human microsomes: evidence for the involvement of P-450IA1 and P-450IA2. Vähäkangas K, et al. **J Biochem Toxicol** 1989 Summer;4(2):79–86

Determination of benzo[a]pyrene diol epoxide-DNA adducts in white blood cell DNA from coke-oven workers: the impact of smoking. van Schooten FJ, et al. **J Natl Cancer Inst** 1990 Jun 6;82(11):927–33

Preferential modification of GC boxes by benzo[a]pyrene-7,8-diol-9,10-epoxide. Kootstra A, et al. **Mol Carcinog** 1989;1(4):239–44

METABOLISM

Sequence preferences of covalent DNA binding by anti-(+)- and anti-(-)-benzo[a]pyrene diol epoxides. Rill RL, et al. **Biochemistry** 1990 Jun 26;29(25):6050–8

Inhibition of liver microsome-mediated mutagenesis, metabolism and DNA-binding of benzo[a]pyrene and benzo[a]pyrene 7,8-dihydrodiol in the rat following glucose administration. Vance RE, et al. **Cancer Lett** 1990 Apr 20;50(2):149–56

DNA adduct formation in mouse tissues in relation to serum levels of benzo(a)pyrene-diol-epoxide after injection of benzo(a)pyrene or the diol-epoxide. Ginsberg GL, et al. **Cancer Res** 1990 Feb 15;50(4):1189–94

Inhibition by 6-mercaptopurine of the binding of a benzo(a)pyrene diol-epoxide to DNA in Chinese hamster ovary cells. MacLeod MC, et al. **Cancer Res** 1990 Jul 15; 50(14):4355–9

Oxidation and DNA binding of (+)-7,8-dihydroxy-7,8-dihydrobenzo(a)pyrene in mouse epidermis in vivo and effects of coadministration of catechol. Melikian AA, et al. **Cancer Res** 1990 Mar 15; 50(6):1795–9

Roles of individual human cytochrome P-450 enzymes in the bioactivation of benzo(a)pyrene, 7,8-dihydroxy-7,8-dihydrobenzo(a)pyrene, and other dihydrodiol derivatives of polycyclic aromatic hydrocarbons. Shimada T, et al. **Cancer Res** 1989 Nov 15; 49(22):6304–12

Relationships among benzo(a)pyrene metabolism, benzo(a)pyrene-diol-epoxide:DNA adduct formation, and sister chromatid exchanges in human lymphocytes from smokers and nonsmokers. Thompson CL, et al. **Cancer Res** 1989 Dec 1;49(23):6503–11

Epoxidation of 7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene via a hydroperoxide-dependent mechanism catalyzed by lipoxygenases. Hughes MF, et al. **Carcinogenesis** 1989 Nov; 10(11):2075–80

Catechol-induced alterations in metabolic activation and binding of enantiomeric and racemic 7,8-dihydroxy-7,8-dihydrobenzo[a]pyrenes to DNA in mouse skin. Melikian AA, et al. **Carcinogenesis** 1989 Oct; 10(10):1863-70

Sequence specificity in the reaction of benzopyrene diol epoxide with DNA. Osborne MR. **Chem Biol Interact** 1990; 75(2):131-40

Metabolism of benzo[a]pyrene and (-)-trans-benzo[a]pyrene-7,8-dihydrodiol by freshly isolated hepatocytes of brown bullheads. Steward AR, et al. **Chem Biol Interact** 1990;74(1-2):119-38

A-DNA accommodates adducts derived from diol epoxides of polycyclic aromatic hydrocarbons bound in a "side-stacking" mode. Andersen RW, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):383-404

Molecular orbital study on the metabolic pathway through the diol epoxide form of carcinogenic benzene in comparison with benzo[a]pyrene. Imamura A, et al. **J Theor Biol** 1988 Nov 21;135(2):215-8

Interaction of an ultimate carcinogen, benzo[a]pyrene diol epoxide, with nucleosomal core particles: apparent lack of protection of DNA by histone proteins. MacLeod MC, et al. **Mol Carcinog** 1989;1(4):245-52

Lipid peroxidation-coupled co-oxygenation of benzo(a)pyrene and benzo(a)pyrene-7,8-dihydrodiol in human term placental microsomes. Byczkowski JZ, et al. **Placenta** 1990 Jan-Feb;11(1):17-26

Studies on covalent binding of (-)trans-7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene metabolites to cytochromes P-450 LM2 and LM4 and NADPH-cytochrome P-450 reductase. Deutsch J, et al. **Xenobiotica** 1989 Dec;19(12):1421-35

[The role of secondary metabolism in formation of benz(a)pyrene dihydrodiol profile in microsome membranes] Izotov MV, et al. **Vopr Med Khim** 1990 Jan-Feb;36(1):51-4 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

DNA base changes in benzo[a]pyrene diol epoxide-induced dihydrofolate reductase mutants of Chinese hamster ovary cells. Carothers AM, et al. **Carcinogenesis** 1990 Jan; 11(1):189-92

Sulfite enhancement of diolepoxide mutagenicity: the role of altered glutathione metabolism. Reed GA, et al. **Carcinogenesis** 1990 Sep;11(9):1635-9

The importance of intercalation in the covalent binding of benzo(a)pyrene diol epoxide to DNA. Macleod MC. **J Theor Biol** 1990 Jan 9;142(1):113-22

Interaction of an ultimate carcinogen, benzo[a]pyrene diol epoxide, with nucleosomal core particles: apparent lack of protection of DNA by histone proteins. MacLeod MC, et al. **Mol Carcinog** 1989;1(4):245-52

Amplification of mRNA of the hprt gene from lysates of mutant human cells and direct DNA sequencing to determine the spectrum of mutations induced by (+/-)-7 beta,8 alpha-dihydroxy-9 alpha,10 alpha, epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene. Maher VM, et al. **Prog Clin Biol Res** 1990;340A:379-88

TOXICITY

Induction of specific frameshift and base substitution events by benzo[a]pyrene diol epoxide in excision-repair-deficient Escherichia coli. Bernelot-Moens C, et al. **Carcinogenesis** 1990 May;11(5):781-5

Effects of catechol on the induction of tumors in mouse skin by 7,8-dihydroxy-7,8-dihydrobenzo[a]pyrenes. Melikian AA, et al. **Carcinogenesis** 1989 Oct;10(10):1897-900

Ellagic acid toxicity and interaction with benzo[a]pyrene and benzo[a]pyrene 7,8-dihydrodiol in human bronchial epithelial cells. Teel RW, et al. **Cell Biol Toxicol** 1986 Mar; 2(1):53-62

Induction of cytotoxicity and mutagenesis is facilitated by fatty acid hydroperoxidase activity in Chinese hamster lung fibroblasts (V79 cells). Sevanian A, et al. **Mutat Res** 1989 Oct;224(2):185-96

S-phase block and cell death in human lymphoblasts exposed to benzo[a]pyrene diol epoxide or N-acetoxy-2-acetylaminofluorene. Black KA, et al. **Toxicol Appl Pharmacol** 1989 Mar 1;97(3):463-72

DIHYDROXYETHANES see **ETHYLENE GLYCOLS**

3,4-DIHYDROXYPHENYLACETIC ACID see under **PHENYLACETATES**

DIHYDROXYPHENYLALANINE see **DOPA**

3,4-DIHYDROXYPHENYLSERINE see under **SERINE**

DIHYDROXYPREGNADIENES see **PREGNADIENEDIOLS**

DIHYDROXYPROGESTERONE ACETOPHENIDE see **ALGESTONE ACETOPHENIDE**

5,6-DIHYDROXYTRYPTAMINE

ANALOGS & DERIVATIVES

Synthesis and biological evaluation of 4-fluoro-, 7-fluoro-, and 4,7-difluoro-5,6-dihydroxytryptamines. Kawase M, et al. **J Med Chem** 1990 Aug;33(8):2204-11

METABOLISM

alpha-Methyl-p-tyrosine pretreatment partially prevents methamphetamine-induced endogenous neurotoxin formation. Axt KJ, et al. **Brain Res** 1990 May 7; 515(1-2):269-76

Single cell shape and population densities of indoleamine-accumulating and displaced bipolar cells in Reeves' turtle retina. Tauchi M. **Proc R Soc Lond [Biol]** 1990 Jan 22;238(1293):351-67

PHARMACOLOGY

Alterations of the cat's electroretinogram induced by the lesioning of the indoleamine-accumulating amacrine cells. Hamasaki DI, et al. **Ophthalmic Res** 1990;22(1):19-30

5,7-DIHYDROXYTRYPTAMINE see under **DIHYDROXYTRYPTAMINES**

DIHYDROXYTRYPTAMINES

Regional central serotonin-2 receptor binding and phosphoinositide turnover in rats with 5,7-dihydroxytryptamine lesions. Butler PD, et al. **Brain Res Bull** 1990 Jan;24(1):125-9

Autoxidation of the serotonergic neurotoxin 5,7-dihydroxytryptamine. Tabatabaie T, et al. **J Med Chem** 1990 Feb;33(2):667-72

PHARMACOKINETICS

Sequential course of uptake of intravitreal 5,7-dihydroxytryptamine by carp retinal cells. Negishi K, et al. **Brain Res** 1990 Jan 29;508(1):135-41

Monoamine-accumulating ganglion cell type of the cat's retina. Dacey DM. **J Comp Neurol** 1989 Oct 1;288(1):59-80

PHARMACOLOGY

Sexual receptivity after destruction of serotonergic terminals in hypothalamus or amygdala. Ramírez OA, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(1):33-8

Trypanocidal effects of catecholamines and indolealkylamines. Owolabi OA, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):127-31

Injection of 5,7-dihydroxytryptamine into the B3 raphe region of neonatal rat pups induces hyperalgesia but only slight alterations in ingestion-related behaviors. Enters EK, et al. **Behav Neural Biol** 1990 Mar;53(2):244-57

Enhanced spatial discrimination learning in rats following 5,7-DHT-induced serotonergic deafferentation of the hippocampus. Altman HJ, et al. **Brain Res** 1990 Jun 4; 518(1-2):61-6

The amine-depleting effects of 5,7-dihydroxytryptamine (5,7-DHT) in C57BL/6 mice do not increase with age. Finnegan KT, et al. **Brain Res** 1989 Sep 4;496(1-2):251-6

The role of serotonin in the control of cerebral activity: studies with intracerebral 5,7-dihydroxytryptamine. Vanderwolf CH, et al. **Brain Res** 1989 Dec 18; 504(2):181-91

A general role for serotonin in the control of behavior: studies with intracerebral 5,7-dihydroxytryptamine. Vanderwolf CH. **Brain Res** 1989 Dec 18;504(2):192-8

Brainstem serotonergic hyperinnervation modifies behavioral supersensitivity to 5-hydroxytryptophan in the rat. Pranzatelli MR, et al. **Brain Res Dev Brain Res** 1989 Nov 1;50(1):89-99

Serotonin depletion modifies the pigeon electroretinogram. Porciatti V, et al. **Doc Ophthalmol** 1989 May;72(1):93-100

1-5-Hydroxytryptophan-induced flat body posture in the rat: antagonism by ritanserin and potentiation after 5,7-dihydroxytryptamine. Colpaert FC, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):175-8

Supersensitivity to intrathecal 5-hydroxytryptamine, but not noradrenaline, following depletion of spinal 5-hydroxytryptamine by 5,7-dihydroxytryptamine administered into various sites. Sawynok J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jul;342(1):1-8

Characterization of the inducible serotonin-sensitive dihydroalprenolol binding sites with low affinity for isoproterenol. Gillespie DD, et al. **Neuropsychopharmacology** 1989 Dec;2(4):265-71

Comparison of the behavioral and neurochemical effects of 5,7-DHT, MDMA and D,L-fenfluramine. Lorens SA, et al. **NIDA Res Monogr** 1989;95:347

[Effect of the local administration of 5,7-DHT and 6-OHDA into the neocortex on the learning and exploratory behavior of rats in an open field] Ismallova KhIu, et al. **Zh Vyssh Nerv Deiat** 1989 May-Jun;39(3):548-55 (Eng. Abstr.) **(Rus)**

[Compensation in behavioral disorders in rats receiving 5,7-DHT neonatally and by transplantation of embryonic raphe nucleus tissue] Semenova TP, et al. **Zh Vyssh Nerv Deiat** 1990 Jan-Feb;40(1):156-64 (Eng. Abstr.) **(Rus)**

TOXICITY

Destruction of the hamster serotonergic system by 5,7-DHT: effects on circadian rhythm phase, entrainment and response to triazolam. Smale L, et al. **Brain Res** 1990 May 7;515(1-2):9-19

The functional significance of neonatal 5,7-dihydroxytryptamine lesions in the rat: response to selective 5-HT1A and 5-HT2,1C agonists. Pranzatelli MR, et al. **Brain Res Bull** 1990 Jun;24(6):747-53

Similarities between aberrant serotonergic fibers in the aged and 5,7-DHT denervated young adult rat brain. van Luijtelaar MG, et al. **Exp Brain Res** 1989;78(1):81-9

24,25-DIHYDROXYVITAMIN D 3

ADMINISTRATION & DOSAGE

Biochemical and biomechanical properties of avian callus after local administration of dihydroxylated vitamin D metabolites. Lidor C, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):137-40

BLOOD

Plasma 24,25-dihydroxyvitamin D3 concentrations in X-linked hypophosphatemic mice: studies using mass fragmentographic and radioreceptor assays. Cunningham J, et al. **J Bone Miner Res** 1990 Feb;5(2):173-7

CHEMICAL SYNTHESIS

Syntheses of 24R,25-dihydroxy-[6,19,19-3H]vitamin D3 and 24R,25-dihydroxy-[6,19,19-2H]vitamin D3. Yamada S, et al. **Steroids** 1989 Aug;54(2):145-57

METABOLISM

Regulation of arachidonic acid turnover by 1,25-(OH)2D3 and 24,25-(OH)2D3 in growth zone and resting zone chondrocyte cultures. Schwartz Z, et al. **Biochim Biophys Acta** 1990 Sep 7;1027(3):278-86

Metabolism of 25-hydroxyvitamin D3 to 24,25-dihydroxyvitamin D3 and its sensitivity to ketoconazole in 1 alpha,25-dihydroxyvitamin D3-differentiated HL60 cells. Hayes ME, et al. **J Mol Endocrinol** 1989 Nov;3(3):199-205

PHARMACOKINETICS

Pharmacokinetics of 24,25-dihydroxyvitamin D3 in humans. Jongen M, et al. **Horm Metab Res** 1989 Oct;21(10):577-80

PHARMACOLOGY

No short-term effects of 24,25-dihydroxycholecalciferol in healthy subjects. Kappelle JW, et al. **Bone** 1989;10(6):397-9

Vitamin D3 metabolites modulate dihydropyridine-sensitive calcium currents in clonal rat osteosarcoma cells. Caffrey JM, et al. **J Biol Chem** 1989 Dec 5;264(34):20265-74

Effects of vitamin D3 metabolites on thyrotropin secretion from rat pituitary cells in culture. Törnquist K, et al. **J Endocrinol Invest** 1990 May;13(5):391-5

The influence of 24,25(OH)2D3 on the calcemic effect of 1,25(OH)2D in rats with chronic renal failure is parathyroid hormone dependent. Rubinger D, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):13-7

[In vitro stimulation of alkaline phosphatase and gamma-glutamyltransferase in the kidney of hypophysectomized rat by the mixture of 1,25 and 24,25 dihydroxycholecalciferols] Do Thanh X, et al. **Pathol Biol (Paris)** 1989 Oct;37(8):912-4 (Eng. Abstr.) **(Fre)**

[Effect of active metabolites of vitamin D 3 on the status of rat bone tissue in various experimental models of hypokinesia] Belakovskiĭ MS, et al. **Kosm Biol Aviakosm Med** 1989 Nov-Dec;23(6):36-9 (Eng. Abstr.) **(Rus)**

[Levels of inorganic and organic substances in the femur of Fisher rats treated with derivatives of vitamin D] Ostojić L, et al. **Med Arh** 1985;39(2-3):57-9 (Eng. Abstr.) **(Scr)**

THERAPEUTIC USE

Reduced deposition of aluminium in trabecular bone of uraemic rats treated with dihydroxylated vitamin D metabolites. Ittel TH, et al. **Nephrol Dial Transplant** 1989; 4(11):957-65

1 ALPHA,25-DIHYDROXYVITAMIN D3 see **CALCITRIOL**

1,25-DIHYDROXYVITAMIN D3 see **CALCITRIOL**

DIHYDROXYVITAMINS D see **DIHYDROXYCHOLECALCIFEROLS**

DIIODOHYDROXYQUIN see under **HYDROXYQUINOLINES**

DIIODOTHYRONINES see under **THYRONINES**

DIIODOTYROSINE

METABOLISM

[Binding of 3H-alanine and 125I-diiodotyrosine with serum proteins in vitro and in vivo] Mazo VK, et al. **Vopr Med Khim** 1989 Nov-Dec;35(6):69-73 (Eng. Abstr.) **(Rus)**

DIIODOTYROSINE RECEPTORS see RECEPTORS, THYROID HORMONE

DIISOPROPYLFLUOROPHOSPHATE see ISOFLUROPHATE

2,3-DIKETOGULONIC ACID see under SUGAR ACIDS

DIKETOPREGNANES see PREGNANEDIONES

DIKETOPREGNENES see PREGNENEDIONES

DILATATION

The natural history of peptic oesophageal strictures treated by dilatation and antireflux therapy alone. Hands LJ, et al. **Ann R Coll Surg Engl** 1989 Sep;71(5):306–9; discussion 9–10

Use suction catheter to dilate ostomy site [letter; comment] Kimmel ME, et al. **Gastrointest Endosc** 1990 Mar–Apr; 36(2):161 Comment on: Gastrointest Endosc 1989 Jul–Aug;35(4):336–7.

Forceful dilatation and oesophagomyotomy in patients with achalasia [letter; comment] Dakkak M, et al. **Gut** 1989 Sep; 30(9):1298–9 Comment on: Gut 1989 Mar;30(3):299–304.

Pneumatic dilatation in achalasia. Kochhar R, et al. **J Assoc Physicians India** 1989 Feb;37(2):157–9

Treatment of hemorrhoids [letter] Denniston GC. **J Fam Pract** 1990 Mar;30(3):360

Urethral dilation in the management of urological complications of myelodysplasia. Wang SC, et al. **J Urol** 1989 Oct;142(4):1054–5

ADVERSE EFFECTS

Complications of anal dilatation for acute anal fissure [letter] Gutman H, et al. **Dis Colon Rectum** 1989 Jun;32(6):545

HISTORY

Seaweed and its synthetic analogues in obstetrics and gynaecology 450BC–1990AD. Johnson N. **J R Soc Med** 1990 Jun;83(6):387–9

INSTRUMENTATION

Preventing cervical conization by achieving satisfactory colposcopy with hygroscopic cervical dilators. Stern JL, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):176–7

Cervical dilation: a comparison of Lamicel and Dilapan. Wells EC, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1124–6

Breakage of a vessel dilator [letter] McCoy EP. **Anaesthesia** 1990 Aug;45(8):699

Snoring can be reduced when the nasal airflow is increased by the nasal dilator Nozovent. Petruson B. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):462–4

Instrument for dilatation of stenotic colorectal anastomosis. Duce AM, et al. **Dis Colon Rectum** 1990 Feb;33(2):160–1

Guide wire distance marks for oesophageal dilatation. Maxton DG. **Gut** 1990 May;31(5):564

Large Hegar dilators as prostatic elevator during transurethral resection of the prostate. Casey WC. **Urol Clin North Am** 1990 Feb;17(1):57–8

Endoscopic treatment of oesophageal stenosis in children. Luzzani S, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:42–4

[Use of a pressure method in the treatment of agenesis and stenosis of the vagina] Uzel R, et al. **Cesk Gynekol** 1990 Mar;55(2):124–8 **(Cze)**

[Treatment of anal fissure by self-dilatation with an anal dilator. Report of experiences with dilatation treatment] Klug W, et al. **Z Arztl Fortbild (Jena)** 1989;83(24):1261–3 **(Ger)**

[Endoscopic percutaneous placement of a bouginage guide for dilatation treatment of the esophagus following 3d degree chemical burn] Hager J, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:41–2 **(Ger)**

[Esophageal dilatation using the Savary–Gilliard bougie] Kawa S, et al. **Rinsho Hoshasen** 1989 Sep;34(9):1071–4 **(Jpn)**

[Recanalization of the esophagus and rectum in cancer using a nitinol device] Zigan shin RV, et al. **Vopr Onkol** 1990; 36(4):483–5 **(Rus)**

METHODS

Selective osteal salpingography and transvaginal catheter dilatation in the diagnosis and treatment of fallopian tube obstruction. Lang EK, et al. **AJR Am J Roentgenol** 1990 Apr;154(4):735–40

Comparison of the Foley catheter and dinoprostone pessary for cervical preparation before second trimester abortion. Hackett GA, et al. **Br J Obstet Gynaecol** 1989 Dec; 96(12):1432–4

Simple method of hydrostatic dilatation of the ureter for ureteroscopy. Harrison SC, et al. **Br J Urol** 1990 Feb; 65(2):218

Eder Puestow dilatation of benign rectal stricture following anterior resection. Woodward A, et al. **Dis Colon Rectum** 1990 Jan;33(1):79–81

Surgery or pneumatic dilatation for achalasia: a head-to-head comparison. Now are all the questions answered? Richter JE. **Gastroenterology** 1989 Nov;97(5):1340–1

Prospective randomized study of Maloney esophageal dilation—blinded versus fluoroscopic guidance. McClave SA, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):272–5

Digital dilatation for hemorrhoids treatment. Lord PH. **Int Surg** 1989 Jul–Sep;74(3):144–5

Role of bougienage in the management of achalasia—need for reappraisal in the light of recent studies [editorial] Mandelstam P, et al. **J Clin Gastroenterol** 1990 Feb; 12(1):3–4

Recurrent benign esophageal strictures treated with self-bougienage: report of seven cases. Kim CH, et al. **Mayo Clin Proc** 1990 Jun;65(6):799–803

Shear stress in the performance of esophageal dilation: comparison of balloon dilation and bougienage [letter; comment] Lindahl H, et al. **Radiology** 1990 Jun;175(3):879 Comment on: Radiology 1989 Sep;172(3 Pt 2):983–6.

[Construction of the vagina by a non-surgical method] Lodovici O, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Jan–Feb;44(1):40–2 (Eng. Abstr.) **(Por)**

DILATATION AND CURETTAGE

The clinical significance of the genital microbiologic flora at vacuum aspiration following miscarriage. Knudsen A, et al. **Acta Obstet Gynecol Scand** 1989;68(2):153–5

Dexmedetomidine, an alpha 2-adrenoceptor agonist, reduces anesthetic requirements for patients undergoing minor gynecologic surgery. Aantaa R, et al. **Anesthesiology** 1990 Aug;73(2):230–5

Diagnostic role of dilatation and curettage in the management of abnormal premenopausal bleeding [letter; comment] Chin RK, et al. **Br J Obstet Gynaecol** 1989 Oct; 96(10):1246–7 Comment on: Br J Obstet Gynaecol 1989 Apr;96(4):496–7.

Detection of endometrial carcinoma: clinical judgement versus histologic examination. Fiorica JV, et al. **South Med J** 1990 Jul;83(7):759–60

[Effect of drugs on artificial abortion of parous and primiparous women in randomized triple blind method] Li MF. **Chung Hua Hu Li Tsa Chih** 1990 Feb;25(2):73–4 **(Chi)**

[Treatment with rectal diazepam or acetylsalicylic acid in effervescing tablets in ambulatory cervical curettage and biopsy. A double-blind randomized study] Andersen HJ, et al. **Ugeskr Laeger** 1990 May 14;152(20):1437–9 (Eng. Abstr.) **(Dan)**

[Is consecutive curettage of the corpus uteri indicated in every conization case?] Kubista E, et al. **Geburtshilfe Frauenheilkd** 1990 Feb;50(2):118–21 (Eng. Abstr.) **(Ger)**

[A case of septic ovarian vein thrombosis] Ruhmland B, et al. **Zentralbl Gynakol** 1990;112(6):383–6 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Transabdominal and transvaginal ultrasonography of uterine perforation following suction curettage. Forster BB, et al. **Can Assoc Radiol J** 1989 Dec;40(6):318–9

Diagnostic and therapeutic hysteroscopy for traumatic intrauterine adhesion. Clinical analysis of 70 patients. Feng ZC, et al. **Chin Med J [Engl]** 1989 Jul;102(7):553–8

Exuberant xanthogranulomatous-like reaction following endometrial curettage [letter; comment] Lopez JI, et al. **Histopathology** 1989 Sep;15(3):315 Comment on: Histopathology 1988 Nov;13(5):541–51.

Early termination of pregnancy: medical induction with prostaglandins versus surgical aspiration under local anesthetic. Hill NC, et al. **Int J Gynaecol Obstet** 1990 Jul; 32(3):269–74

INSTRUMENTATION

Endometrial sampling techniques for the office. Koonings PP, et al. **Am Fam Physician** 1989 Oct;40(4):207–10

Endocervical curettage by Vabra aspiration as part of colposcopic evaluation. Helmerhorst TJ, et al. **Gynecol Oncol** 1990 Mar;36(3):312–6

[Cytologic endometrium diagnosis with a new combination instrument, the Endoshave] Caniels B, et al. **Geburtshilfe Frauenheilkd** 1990 Jun;50(6):477–82 (Eng. Abstr.) **(Ger)**

METHODS

Preoperative dilatation of the cervix at legal abortion with a synthetic, fast-swelling hygroscopic tent. Bokström H, et al. **Acta Obstet Gynecol Scand** 1989;68(4):313–8

Late-second-trimester pregnancy termination with dilation and evacuation in critically ill women. Bowers CH, et al. **J Reprod Med** 1989 Nov;34(11):880–3

Evaluation of the Pipelle curette for endometrial biopsy. Henig I, et al. **J Reprod Med** 1989 Oct;34(10):786–9

Sonographic guidance for uterine dilation and curettage complicated by postmenopausal cervical stenosis. A case report. King CR, et al. **J Reprod Med** 1990 Mar;35(3):281–2

DILATATION, BALLOON see BALLOON DILATATION

DILATATION, PATHOLOGIC

DIAGNOSIS

[Neonatal pelvic ectasia] Fernández Escribano A, et al. **An Esp Pediatr** 1989 Dec;31(6):570–4 (35 ref.) (Eng. Abstr.) **(Spa)**

DILATATION, TRANSLUMINAL ARTERIAL see ANGIOPLASTY, TRANSLUMINAL

DILATED CARDIOMYOPATHY see CARDIOMYOPATHY, CONGESTIVE

DILAZEP see under AZEPINES

DILTIAZEM

ADMINISTRATION & DOSAGE

Myocardial protection by intravenous diltiazem during angioplasty of single-vessel coronary artery disease. Bonnier JJ, et al. **Am J Cardiol** 1990 Jul 15;66(2):145–50

Usefulness of sustained-release diltiazem for stable angina pectoris. Klinke WP, et al. **Am J Cardiol** 1989 Dec 1; 64(19):1249–52

A comparison of diltiazem, esmolol, nifedipine and nitroprusside therapy of post-CABG hypertension. Boylan JF, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S156

Sustained-release diltiazem versus metoprolol in stable angina pectoris. Posma JL, et al. **Eur Heart J** 1989 Oct; 10(10):923–7

Diltiazem multi-dose gastrointestinal diffusion system: preparation and release rate studies. Janicki S, et al. **Farmaco** 1989 May;44(5):531–9

Behavioral effects of diltiazem injected into the paraventricular nucleus of the hypothalamus. de Beaurepaire R, et al. **Pharmacol Biochem Behav** 1989 Jul; 33(3):507–10

The cyclosporine-sparing effects of diltiazem in renal transplantation. McCauley J, et al. **Transplant Proc** 1989 Dec;21(6):3955–7

[The use of digoxin and diltiazem in controlling ventricular rate in chronic atrial fibrillation] Zheng Z. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1990 Feb; 18(1):8–10 **(Chi)**

[The effect of diltiazem on plaque cells of primary and restenosed lesions] Voisard R, et al. **Vasa Suppl** 1989; 27:241–3 **(Ger)**

[Combination therapy with slow release isosorbide nitrate and diltiazem in silent myocardial ischemia] Brisse B, et al. **Z Kardiol** 1989;78 Suppl 2:175–8; discussion 188–9 (Eng. Abstr.) **(Ger)**

[Do thrombocyte aggregation inhibitors modify silent episodes of unstable angina pectoris in combined anti-angina therapy?] Eber B, et al. **Z Kardiol** 1989;78 Suppl 2:150–4; discussion 159 (Eng. Abstr.) **(Ger)**

[Dose-response relation of gallopamil in comparison with nifedipine, diltiazem and tiapamil in patients with coronary heart disease] Hopf R, et al. **Z Kardiol** 1989;78 Suppl 5:69–76 (Eng. Abstr.) **(Ger)**

[Control of the effectiveness of nitrate therapy with long-term ECG based on spontaneous ST segment changes] Osterspey A, et al. **Z Kardiol** 1989;78 Suppl 2:155–8; discussion 159 (Eng. Abstr.) **(Ger)**

[Randomized comparison between gallopamil and diltiazem in angiography verified coronary heart disease] Zenker GD, et al. **Z Kardiol** 1989;78 Suppl 5:94–7 (Eng. Abstr.) **(Ger)**

[The protective effect of diltiazem, a calcium channel blocker on myocardial ischemia during open heart surgery—an analysis of electrolyte changes in myocardial cells] Koike R. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):358–69 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Pulmonary edema with diltiazem in hypertrophic obstructive cardiomyopathy. Natarajan D, et al. **Am Heart J** 1990 Jul; 120(1):229–32

Depression associated with diltiazem. Biriell C, et al. **BMJ** 1989 Sep 23;299(6702):796

Cutaneous reaction to diltiazem resulting in an exacerbation of angina. Jones SK, et al. **Clin Exp Dermatol** 1989 Nov; 14(6):457–8

Diltiazem associated erythema multiforme [letter] Berbis P, et al. **Dermatologica** 1989;179(2):90

Long-term effects of beta-blockers and Ca2+(+)-antagonists on glucose metabolism. Pollare T, et al. **Horm Metab Res Suppl** 1990;22:56

The acute withdrawal of diltiazem and atenolol: a possible challenge to affective stability [letter] Slagle DA. **J Clin Psychopharmacol** 1989 Oct;9(5):381–2

Direct diabetogenic effect of diltiazem? Iversen E, et al. **J Intern Med** 1990 Apr;227(4):285–6

[Cardiac arrest after intracoronary injection of diltiazem (letter)] Allal J, et al. **Presse Med** 1990 Mar 10;19(9):428 **(Fre)**

[Increase in the plasma level of diltiazem in therapeutic complications in the elderly (letter)] Furber A, et al. **Therapie** 1990 Mar–Apr;45(2):163–4 **(Fre)**

ANALOGS & DERIVATIVES

Synthesis and pharmacological properties of azido derivatives of 1,5-benzothiazepine Ca antagonist. Narita H, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb;38(2):407–10

Photoaffinity labeling of the purified skeletal muscle calcium antagonist receptor by a novel benzothiazepine, [3H]azidobutyryl diltiazem. Naito K, et al. **J Biol Chem** 1989 Dec 15;264(35):21211–4

BLOOD

Automated high-performance liquid chromatography with column switching for on-line clean-up and analysis of diltiazem and metabolites in human plasma. Ascalone V, et al. **J Chromatogr** 1989 Oct 27;495:358-60

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography. Boulieu R, et al. **J Chromatogr** 1990 Jun 29;528(2):542-6

DIAGNOSTIC USE

Suppression of exercise-induced ventricular arrhythmias by propranolol and diltiazem in a woman without organic heart disease--a case report. Yano K, et al. **Angiology** 1990 Jan;41(1):70-5

METABOLISM

Metabolite inhibition of parent drug biotransformation. Studies of diltiazem. Tsao SC, et al.
Drug Metab Dispos 1990 Mar-Apr;18(2):180-2

Binding of diltiazem to albumin, alpha 1-acid glycoprotein and to serum in man. Belpaire FM, et al.
J Clin Pharmacol 1990 Apr;30(4):311-7

PHARMACOKINETICS

Influence of food on the bioavailability of diltiazem and two of its metabolites following the administration of conventional tablets and slow-release capsules. Du Souich P, et al. **Biopharm Drug Dispos** 1990 Mar;11(2):137-47

Bioequivalence of two pharmaceutical forms of diltiazem. Rubio M, et al. **Biopharm Drug Dispos** 1990 Jan-Feb; 11(1):77-83

O-carboxymethyl-O-ethylcyclomaltoheptaose as a delayed-release-type drug carrier: improvement of the oral bioavailability of diltiazem in the dog. Uekama K, et al. **Carbohydr Res** 1989 Oct 23;192:323-30

The pharmacokinetics and pharmacodynamics of diltiazem and its metabolites in healthy adults after a single oral dose. Boyd RA, et al. **Clin Pharmacol Ther** 1989 Oct;46(4):408-19

Pharmacokinetic interaction between cyclosporin and diltiazem. Brockmöller J, et al. **Eur J Clin Pharmacol** 1990; 38(3):237-42

Pharmacokinetics and toxic effects of diltiazem in massive overdose. Ferner RE, et al. **Hum Toxicol** 1989 Nov; 8(6):497-9

Slow-release characteristics of diltiazem from ethylated beta-cyclodextrin complexes. Horiuchi Y, et al.
J Pharm Sci 1990 Feb;79(2):128-32

Pharmacokinetics of an oral sustained-release diltiazem preparation. Murata K, et al. **J Pharm Sci** 1989 Nov; 78(11):960-3

Pharmacokinetics of diltiazem and its metabolites after repeated multiple-dose treatments in healthy volunteers. Höglund P, et al. **Ther Drug Monit** 1989 Sep;11(5):543-50

Pharmacokinetics of diltiazem and its metabolites after repeated single dosing in healthy volunteers. Höglund P, et al. **Ther Drug Monit** 1989 Sep;11(5):551-7

Pharmacokinetics of diltiazem and its metabolites after single and multiple dosing in healthy volunteers. Höglund P, et al. **Ther Drug Monit** 1989 Sep;11(5):558-66

[Bioavailability of 3 formulations of diltiazem] das Neves HJ, et al. **Rev Port Cardiol** 1989 Jul-Aug;8(7-8):521-4 (Eng. Abstr.) (Por)

PHARMACOLOGY

Protective effect of nifedipine, cinnarizine and dilthiazem against stress elevation of nonesterified fatty acids in brain. Sklenovský A, et al. **Act Nerv Super (Praha)** 1990 Jun; 32(2):151-2

Effects of the kallikrein-kinin system on phasic coronary vasospasm in dogs. Ohde H, et al. **Adv Exp Med Biol** 1989; 247B:617-22

Effects of diltiazem on phosphate metabolism in ischemic and reperfused myocardium using phosphorus31 nuclear magnetic resonance spectroscopy in vivo. Kavanaugh KM, et al. **Am Heart J** 1989 Dec;118(6):1210-9

Effects of diltiazem and nifedipine on systemic and coronary hemodynamics and ischemic responses during transient coronary artery occlusion in patients. Kern MJ, et al.
Am Heart J 1990 Jan;119(1):47-54

Diltiazem attenuates the inotropic and peripheral vascular effects of cardiac glycosides. Watford WH, et al.
Am Heart J 1989 Oct;118(4):738-47

Enhanced neuroinhibitory effect of diltiazem in blood vessels of spontaneously hypertensive rats. Tsuda K, et al.
Am J Hypertens 1990 Jul;3(7):555-9

Effect of different calcium antagonists on transcapillary fluid shift. Valentin JP, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 1):491-5

Do calcium channel blockers have any influence on the immunological status of renal graft recipients on ciclosporin therapy? Mandreoli M, et al. **Am J Nephrol** 1990; 10(1):58-60

The effect of diltiazem on the cardiovascular response to tracheal intubation. Mikawa K, et al. **Anaesthesia** 1990 Apr; 45(4):289-93

Effects of diltiazem, verapamil, and inhalation anesthetics on electrophysiologic properties affecting reentrant supraventricular tachycardia in chronically instrumented dogs. Atlee JL 3d, et al. **Anesthesiology** 1990 May; 72(5):889-901

Experimental study on the action of diltiazem on detrusor muscle and clinical evaluation in patients with detrusor hyperactivity. Faustini S, et al. **Arzneimittelforschung** 1989 Aug;39(8):899-903

Failure of diltiazem to suppress cholesterol-induced atherogenesis of endothelium-denudated arteries in pigs. Sassen LM, et al. **Atherosclerosis** 1990 Apr;81(3):217-24

Intracellular calcium in the control of osteoclast function. I. Voltage-insensitivity and lack of effects of nifedipine, BAYK8644 and diltiazem. Datta HK, et al.
Biochem Biophys Res Commun 1990 Feb 28;167(1):183-8

Inhibition of apolipoprotein B net synthesis and secretion from cultured rat hepatocytes by the calcium-channel blocker diltiazem. Kwong TC, et al. **Biochem J** 1989 Oct 15;263(2):411-5

Interactions between diltiazem and inhalation anaesthetics in the isolated heart. Carceles MD, et al. **Br J Anaesth** 1989 Sep;63(3):321-5

Electrophysiological effects of bepridil and its quaternary derivative CERM 11888 in closed chest anaesthetized dogs: a comparison with verapamil and diltiazem. Leboeuf J, et al. **Br J Pharmacol** 1989 Dec;98(4):1351-9

The effect of diltiazem on the coronary haemodynamic and cardiac functional effects produced by intracoronary administration of endothelin-1 in the anaesthetized dog. Nichols AJ, et al. **Br J Pharmacol** 1990 Mar;99(3):597-601

Effects of hypoxia, elevated K+ and acidosis on the potency of verapamil, diltiazem and nifedipine in the guinea-pig isolated papillary muscle. Robertson MJ, et al.
Br J Pharmacol 1989 Nov;98(3):937-49

Calcium channel blocker reverses anticholinesterase-induced myopathy. Meshul CK. **Brain Res** 1989 Sep 11;497(1):142-8

Ca2+ and vasopressin release in isolated rat neurohypophysis: differential effects of four classes of Ca2+ channel ligands. von Spreckelsen S, et al.
Brain Res 1990 Apr 23;514(1):68-76

Diltiazem and nifedipine reduce the in vitro contracture response to halothane in malignant hyperthermia-susceptible muscle. Adnet PJ, et al.
Can J Anaesth 1990 Jul;37(5):556-9

Effect of calcium antagonists on aortae isolated from normotensive and hypertensive rats: relaxation and calcium influx blockade. Cattaneo EA, et al. **Can J Cardiol** 1990 Jun;6(5):212-8

Positive hemodynamic interaction between amrinone and diltiazem in anesthetized dogs. Dagher E, et al.
Can J Physiol Pharmacol 1989 Sep;67(9):1092-7

Effects of aging on alpha 1-adrenoceptor mechanisms and the inhibitory effect of diltiazem on noradrenaline maximum response in isolated rat aortic preparation. Takayanagi I, et al. **Can J Physiol Pharmacol** 1989 Nov; 67(11):1398-402

Effects of calcium antagonists in multidrug resistance primary human renal cell carcinomas. Mickisch GH, et al.
Cancer Res 1990 Jun 15;50(12):3670-4

Effects of heart rate and diltiazem hydrochloride on alternans of ST segment elevation and ventricular arrhythmia during acute myocardial ischaemia in dogs. Hayakawa T, et al.
Cardiovasc Res 1989 Jun;23(6):520-8

The effect of diltiazem on coronary flow reserve in humans. Rossen JD, et al. **Circulation** 1989 Nov;80(5):1240-6

Antiarrhythmic actions of diltiazem during experimental atrioventricular reentrant tachycardias. Importance of use-dependent calcium channel-blocking properties. Talajic M, et al. **Circulation** 1990 Jan;81(1):334-42

Interaction of endothelin and Ca++ entry blockers on renal circulation in anesthetized rabbits. Seino M, et al.
Clin Exp Hypertens [A] 1990;12(2):205-13

Effect of diltiazem, verapamil and dantrolene on the contractility of isolated malignant hyperpyrexia-susceptible human skeletal muscle. Foster PS, et al.
Clin Exp Pharmacol Physiol 1989 [illegible]16(10):799-805

Effects of calcium channel blockers on the pharmacokinetics of propranolol stereoisomers. Hunt [illegible], et al.
Clin Pharmacol Ther 1990 May;47(5):584-91

The effect of diltiazem on the disposition of encainide and its active metabolites. Kazierad DJ, et al.
Clin Pharmacol Ther 1989 Dec;46(6):668-73

Diltiazem. A reappraisal of its pharmacological properties and therapeutic use. Buckley MM, et al. **Drugs** 1990 May; 39(5):757-806 (401 ref.)

Effects of diltiazem on postextrasystolic potentiation in coronary heart disease patients. Di Donato M, et al.
Eur Heart J 1990 Jul;11(7):656-61

Assessment of hemodynamic function and tolerance to ischemia in the absence or presence of calcium antagonists in hearts of isoproterenol-treated, exercise-trained, and sedentary rats. Brinkman CJ, et al.
Eur J Cardiothorac Surg 1988;2(6):448-52

Attenuation of rifampicin-induced theophylline metabolism by diltiazem/rifampicin coadministration in healthy volunteers. Adebayo GI, et al. **Eur J Clin Pharmacol** 1989; 37(2):127-31

Effect of diltiazem on spontaneous cyclic Ca2+ release from sarcoplasmic reticulum. Asayama J, et al.
Eur J Pharmacol 1990 Jan 17;175(3):309-15

Comparative study of d-diltiazem and its analogues as calcium antagonists in snail neurones. Novales-Li P, et al.
Eur J Pharmacol 1990 Mar 20;178(2):161-70

Influence of extracellular calcium in the effects of dibekacin and diltiazem on indirectly elicited tetanic responses in the rat phrenic-hemidiaphragm preparation. Baños JE, et al.
Gen Pharmacol 1990;21(4):521-5

Effects of diltiazem on hyperthermia induced seizures in the rat pup. Laorden ML, et al. **Gen Pharmacol** 1990; 21(3):313-5

Calcium antagonists for uterine relaxation. Lechner W, et al. **Gynecol Obstet Invest** 1989;28(3):144-6

Calcium antagonists inhibit elevated potassium efflux from aorta of aldosterone-salt hypertensive rats. Smith JM, et al. **Hypertension** 1990 Jan;15(1):78-83

Effect of calcium-modifying drugs on mouse in vitro fertilization and preimplantation development. Blancato JK, et al. **Int J Fertil** 1990 May-Jun;35(3):171-6

Promotion of calcification by imidazole and its suppression by diltiazem in the growth cartilage of rats with HEBP induced rickets. Eguchi M, et al. **Int Orthop** 1989; 13(3):217-20

Diltiazem reduces the contractility of extraocular muscles in vitro and in vivo. Jacoby J, et al.
Invest Ophthalmol Vis Sci 1990 Mar 1;31(3):569-76

Lipid peroxidation in rat cerebral cortex during post-ischemic reperfusion: effect of exogenous antioxidants and Ca(++)-antagonist drugs. Vanella A, et al.
Ital J Biochem 1990 May-Jun;39(3):196A-198A

Failure of nitroglycerin and diltiazem to reduce platelet-mediated vasoconstriction in dogs with coronary artery stenosis and endothelial injury: further evidence for thromboxane A2 and serotonin as mediators of coronary artery vasoconstriction in vivo [see comments] Golino P, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):718-26 Comment in: J Am Coll Cardiol 1990 Mar 1;15(3):727-9.

Differential enhancement of postischemic segmental systolic thickening by diltiazem. Taylor AL, et al.
J Am Coll Cardiol 1990 Mar 1;15(3):737-47

Cardiac and hemodynamic effects of diltiazem during exercise-induced myocardial dysfunction in dogs. Grohs JG, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):228-33

Effects of diltiazem on the pharmacokinetics of nifedipine. Ohashi K, et al. **J Cardiovasc Pharmacol** 1990 Jan; 15(1):96-101

Effects of Ca2+ antagonists nifedipine and diltiazem on isolated human chorionic arteries and veins. Reviriego J, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):128-38

Effects of diltiazem on lactate, ATP, and cytosolic free calcium levels in ischemic hearts. Watts JA, et al.
J Cardiovasc Pharmacol 1990 Jan;15(1):44-9

The influence of nifedipine and diltiazem on serum theophylline concentration-time profiles. Smith SR, et al.
J Clin Pharm Ther 1989 Oct;14(5):403-8

Comparative evaluation of the effects of labetalol, verapamil and diltiazem on antipyrine and indocyanine green clearances. Rocci ML Jr, et al. **J Clin Pharmacol** 1989 Oct; 29(10):891-5

Dose dependent effect of diltiazem on the pharmacokinetics of nifedipine. Tateishi T, et al. **J Clin Pharmacol** 1989 Nov; 29(11):994-7

Effects of diltiazem on bioenergetics, K+ gradients, and free cytosolic Ca2+ levels in rat brain synaptosomes submitted to energy metabolism inhibition and depolarization. Dagani F, et al. **J Neurochem** 1989 Nov;53(5):1379-89

Mechanisms of gastric proton pump inhibition by calcium channel antagonists. Nandi J, et al.
J Pharmacol Exp Ther 1990 Mar;252(3):1102-7

Autonomic modulation of the frequency-dependent actions of diltiazem on the atrioventricular node in anesthetized dogs. Nayebpour M, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):353-61

Effects of diltiazem and atenolol on exercise performance in man. Bouckaert J, et al. **J Sports Med Phys Fitness** 1989 Sep;29(3):240-4

Protection of acute ischemic myocardial injury by pharmacological intervention. Katagiri T, et al.
Jpn Circ J 1989 Sep;53(9):1108-14

The mechanism of protective effect of diltiazem on reperfusion-induced arrhythmias in isolated rat heart. Mitani A, et al. **Jpn Circ J** 1990 Jan;54(1):117-25

Baroreceptor reflex to neck suction and its modification by diltiazem in man. Kawashima S, et al. **Jpn Heart J** 1989 May;30(3):343-51

The protective effects of calcium antagonist and free radical scavenger against myocardial ischemic/reperfusion injury in the isolated rat heart. Ataka K, et al.
Kobe J Med Sci 1989 Dec;35(5-6):261-76

Effects of diltiazem or propranolol during exercise training of hypertensive men. Stewart KJ, et al.
Med Sci Sports Exerc 1990 Apr;22(2):171-7

Influence of diltiazem on postischemic microcirculation and function in the rat kidney. Pethö A, et al.
Microvasc Res 1989 Nov;38(3):223-36

Calcium channel blocker influences the density of alpha-actinin labeling at the rat neuromuscular junction. Meshul CK, et al. **Muscle Nerve** 1990 Apr;13(4):348-54

Inhibitory actions of diltiazem and its derivative, TA3090 on the Ba-current recorded from smooth muscle cells of the rabbit mesenteric artery. Xiong Z, et al.
Naunyn Schmiedebergs Arch Pharmacol 1990 Apr; 341(4):373-80

Antimetastatic action of diltiazem on LS/BL tumor cells in liver tumor-colony assay. Jurášková V, et al.
Neoplasma 1990;37(3):343-8

The effects of encainide versus diltiazem on the oxidative metabolic pathways of antipyrine. Bottorff MB, et al.
Pharmacotherapy 1989;9(5):315-21

Elevated calcium-dependent K+ efflux in aorta from stroke prone-spontaneously hypertensive rat. Smith JM, et al. **Prog Clin Biol Res** 1990;327:539–47

Effect of diltiazem on acetaminophen and phalloidine hepatotoxicity. Kobusch AB, et al. **Res Commun Chem Pathol Pharmacol** 1990 May; 68(2):143–57

Cyanide-induced neurotoxicity: calcium mediation of morphological changes in neuronal cells. Maduh EU, et al. **Toxicol Appl Pharmacol** 1990 Apr;103(2):214–21

[Effects of diltiazem on arterial pressure and renal function in renal transplanted and cyclosporin A treated subjects. Results after 3 months of a prospective study] Guerin C, et al. **Arch Mal Coeur** 1989 Jul;82(7):1223–7 (Eng. Abstr.) (Fre)

[Diltiazem and modulation of platelet aggregation] Colica G, et al. **Minerva Cardioangiol** 1990 Jan–Feb;38(1–2):51–4 (Eng. Abstr.) (Ita)

[Effect of calcium antagonists on the Ca2(+) paradox] Tribulová N, et al. **Bratisl Lek Listy** 1990 Jun;91(6):437–45 (Eng. Abstr.) (Slo)

[The calcium paradox in the isolated rat heart—effects of diltiazem] Ravingerová T, et al. **Cesk Fysiol** 1989; 38(6):491–4 (Slo)

POISONING

Calcium channel blocker toxicity. Ramoska EA, et al. **Ann Emerg Med** 1990 Jun;19(6):649–53

THERAPEUTIC USE

A hemodynamic comparison of verapamil, diltiazem, and amlodipine in coronary artery disease. Taylor SH, et al. **Am Heart J** 1989 Nov;118(5 Pt 2):1105–6

The effects of diltiazem on cardiac function in silent ischemia after myocardial infarction. van der Wall EE, et al. **Am Heart J** 1989 Oct;118(4):655–61

Effect of diltiazem on cardiac rate and rhythm after myocardial infarction. Multicenter Diltiazem Postinfarction Trial Investigators. Bigger JT Jr, et al. **Am J Cardiol** 1990 Mar 1;65(9):539–46

Hemodynamic and echocardiographic assessment of the effects of diltiazem during transient occlusion of the left anterior descending coronary artery during percutaneous transluminal coronary angioplasty. Kern MJ, et al. **Am J Cardiol** 1989 Oct 15;64(14):849–55

Age-related prognosis after acute myocardial infarction (the Multicenter Diltiazem Postinfarction Trial). Marcus FI, et al. **Am J Cardiol** 1990 Mar 1;65(9):559–66

Effect of intravenous diltiazem on myocardial ischemia occurring during percutaneous transluminal coronary angioplasty. Piessens J, et al. **Am J Cardiol** 1989 Nov 15; 64(18):1103–7

Effects of diltiazem alone or with isosorbide dinitrate or with atenolol both acutely and chronically for stable angina pectoris. el-Tamimi H, et al. **Am J Cardiol** 1989 Oct 1; 64(12):717–24

Diltiazem and left ventricular mass regression [letter; comment] Weiss RJ. **Am J Cardiol** 1989 Oct 1;64(12):833–4 Comment on: Am J Cardiol 1989 Jan 15;63(3):198–201.

Calcium antagonists and aminoglycoside nephrotoxicity [letter; comment] Lortholary O, et al. **Am J Med** 1990 Apr; 88(4):445 Comment on: Am J Med 1989 Sep;87(3):306–15.

Effects of diltiazem or lisinopril on massive proteinuria associated with diabetes mellitus. Bakris GL. **Ann Intern Med** 1990 May 1;112(9):707–8

The effect of diltiazem on calcinosis in a patient with the CREST syndrome. Farah MJ, et al. **Arthritis Rheum** 1990 Aug;33(8):1287–93

Response of blood pressure, cardiac output, peripheral resistance, and exercise performance to substitution of calcium blocker for beta-blocker plus thiazide diuretic therapy in patients with both systemic hypertension and mild stable angina. Kawanishi DT, et al. **Circulation** 1989 Dec;80(6 Suppl):IV162–70

The interaction between diltiazem and left ventricular function after myocardial infarction. Multicenter Diltiazem Post-Infarction Research Group. Moss AJ, et al. **Circulation** 1989 Dec;80(6 Suppl):IV102–6

Comparison of low-dose aspirin and coronary vasodilators in acute unstable angina. Vejar M, et al. **Circulation** 1990 Jan;81(1 Suppl):I4–11; discussion I22–3

Comparative effects of diltiazem sustained-release formulation and metoprolol on ambulatory blood pressure and plasma lipoproteins. Lacourcière Y, et al. **Clin Pharmacol Ther** 1990 Sep;48(3):318–24

Calcium-entry blockers during porcine cardiopulmonary resuscitation. von Planta M, et al. **Clin Sci** 1990 Feb; 78(2):207–13

Sustained-release diltiazem in patients with effort angina and severe coronary artery sclerosis. Mizuki T, et al. **Clin Ther** 1990 Mar–Apr;12(2):172–80

Diltiazem alone and combined with nitroglycerin: effect on normal and diseased human coronary arteries. Hess OM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:142–6

Effect of long-term diltiazem treatment on central haemodynamics and exercise endurance in essential hypertension. Lund-Johansen P, et al. **Eur Heart J** 1990 Jun;11(6):543–51

The effects of diltiazem on methotrexate-induced nephrotoxicity. Deray G, et al. **Eur J Clin Pharmacol** 1989; 37(4):337–40

Ventricular rate control and exercise performance in chronic atrial fibrillation: effects of diltiazem and verapamil. Lundström T, et al. **J Am Coll Cardiol** 1990 Jul;16(1):86–90

Effects of diltiazem and long-term beta 1-adrenergic blockade on hemodynamics and blood flow during exercise in patients with stable angina pectoris. Ogasawara S, et al. **J Am Coll Cardiol** 1990 Jan;15(1):184–8

Pharmacologic response of cesium-induced ventricular tachyarrhythmias in anesthetized dogs. Nayebpour M, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):552–61

ECG-gated cardiac scan and echocardiographic assessments of left ventricular hypertrophy: reversal by 6-month treatment with diltiazem. Senda Y, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):298–304

Diltiazem in perioperative coronary spasm [letter] Ghosh PK. **J Thorac Cardiovasc Surg** 1989 Dec;98(6):1148

Calcium paradox in an in vivo model of multidose cardioplegia and moderate hypothermia. Prevention with diltiazem or trace calcium levels. Rebeyka IM, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):475–83

An assessment of diltiazem and hydrochlorothiazide in hypertension. Application of factorial trial design to a multicenter clinical trial of combination therapy. Burris JF, et al. **JAMA** 1990 Mar 16;263(11):1507–12

Response of isolated perfused heart to ischemia after long-term treatment of spontaneously hypertensive rats with diltiazem. Obata H, et al. **Jpn Circ J** 1990 Jan; 54(1):89–99

Captopril, but not diltiazem, favorably affects the course of early chronic renal disease in rats. Podjarny E, et al. **Nephron** 1990;55(2):196–202

Double-blind crossover trial of diltiazem versus propranolol in the management of thyrotoxic symptoms. Milner MR, et al. **Pharmacotherapy** 1990;10(2):100–6

Prevention of delayed graft function in cadaveric kidney transplants by the calcium antagonist diltiazem and the prostacyclin-analogue iloprost—outcome of a prospective randomized clinical trial. Neumayer HH, et al. **Prog Clin Biol Res** 1989;301:289–95

Diltiazem as monotherapy in treatment of mild to moderate essential hypertension. Chern MS, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Oct;88(10):995–9

[Changes in cardiac function in early hypertension and the effects of diltiazem] Wang L. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Dec; 17(6):338–40 (Chi)

[The effect of reperfusion and diltiazem on the extent of experimental infarct in the dog] Dostál M, et al. **Cesk Fysiol** 1989;38(6):561–4 (Cze)

[The effect of VUFB diltiazem tablets on the sick sinus and on electrophysiologic parameters of the heart atrium] Mádle A, et al. **Vnitr Lek** 1990 Feb;36(2):128–33 (Eng. Abstr.) (Cze)

[Comparison of the effects of diltiazem and isradipine in patients with chronic stable angina pectoris] Meluzín J, et al. **Vnitr Lek** 1989 Nov;35(11):1062–71 (Eng. Abstr.) (Cze)

[Comparison of the effects of depot isosorbide dinitrate (Isoket Retard 120) and diltiazem in patients with exertional angina pectoris] Meluzín J, et al. **Vnitr Lek** 1990 Feb; 36(2):134–40 (Eng. Abstr.) (Cze)

[Comparison of the efficacy of verapamil and diltiazem in stable exercise angina. A double-blind and crossover study] Belin A, et al. **Arch Mal Coeur** 1990 Mar;83(3):393–8 (Eng. Abstr.) (Fre)

[Demographic characteristics and response to antihypertensive treatment. Study using fixed doses of diltiazem] Elkik F, et al. **Arch Mal Coeur** 1989 Jul; 82(7):1299–302 (Eng. Abstr.) (Fre)

[Beneficial long-term effects of diltiazem on the course of dilated cardiomyopathy] Figulla HR, et al. **Z Kardiol** 1989; 78 Suppl 5:36–42 (Eng. Abstr.) (Ger)

[Efficacy of diltiazem in elderly patients with stable effort angina] Acanfora D, et al. **G Ital Cardiol** 1989 Nov; 19(11):1007–14 (Eng. Abstr.) (Ita)

[Role of the collateral coronary circulation in the mechanism of action of verapamil and diltiazem on the ischemic myocardium] Kirsanova GIu, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):33–7 (Eng. Abstr.) (Rus)

[Comparison of antianginal effects of diltiazem and metoprolol in patients with ischemic heart disease with different clinical forms of angina pectoris] Guliev AB, et al. **Kardiologiia** 1990 May;30(5):18–24 (Eng. Abstr.) (Rus)

[The anti-anginal effect of diltiazem in patients with stable exercise-induced stenocardia and vasospastic stenocardia compared with the effect of nifedipine] Kocherga EIu, et al. **Kardiologiia** 1990 Feb;30(2):29–31 (Eng. Abstr.) (Rus)

[Effect of diltiazem on the functional activity of erythrocytes and thrombocytes in patients with ischemic heart disease] Razumov VB, et al. **Kardiologiia** 1989 Oct;29(10):54–6 (Eng. Abstr.) (Rus)

[The use of metoprolol with calcium antagonists of different mechanisms of action (diltiazem and nifedipine) in patients with stenocardia of effort] Guliev AB, et al. **Ter Arkh** 1990; 62(1):32–6 (Eng. Abstr.) (Rus)

DILUTION TECHNICS see **INDICATOR DILUTION TECHNICS**

DIMENHYDRINATE

Dimenhydrinate dependence and withdrawal. Craig DF, et al. **Can Med Assoc J** 1990 May 1;142(9):970–3

Dimenhydrinate addiction in a schizophrenic woman [letter] Bartlik B, et al. **J Clin Psychiatry** 1989 Dec;50(12):476

PHARMACOKINETICS

Diphenhydramine kinetics following intravenous, oral, and sublingual dimenhydrinate administration. Scavone JM, et al. **Biopharm Drug Dispos** 1990 Apr;11(3):185–9

THERAPEUTIC USE

The anti-motion sickness mechanism of ginger. A comparative study with placebo and dimenhydrinate. Holtmann S, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct; 108(3–4):168–74

DIMERCAPROL

ADMINISTRATION & DOSAGE

[Treatment of mercury-induced organ damage] Damrau J. **Z Gesamte Inn Med** 1990 Mar 1;45(3):89–92 (Eng. Abstr.) (Ger)

ANALYSIS

Solute concentrations of the pulmonary epithelial lining fluid of anesthetized rats. Effros RM, et al. **J Appl Physiol** 1990 Jan;68(1):275–81

PHARMACOLOGY

2,3 Dimercapto-1-propanol inhibits HIV-1 tat activity, viral production, and infectivity in vitro. Kubota S, et al. **AIDS Res Hum Retroviruses** 1990 Jul;6(7):919–27

Arsenic distribution in rabbits after Lewisite administration and treatment with British anti-Lewisite (BAL). Snider TH, et al. **Fundam Appl Toxicol** 1990 Feb;14(2):262–72

[Synthesis and study of the convulsant action of polycyclic amino-gamma-lactone and of its tetrahydrofuran analogue] Kolocouris N, et al. **Ann Pharm Fr** 1989;47(3):126–34 (Eng. Abstr.) (Fre)

THERAPEUTIC USE

Oral antimony intoxications in man. Lauwers LF, et al. **Crit Care Med** 1990 Mar;18(3):324–6

Estimation of the body burden of arsenic in a child fatally poisoned by arsenite weedkiller. Saady JJ, et al. **J Anal Toxicol** 1989 Sep–Oct;13(5):310–2

[The effect of combined drug treatment using gold preparations on indices of lipid peroxidation in patients with rheumatoid arthritis] Makarchuk OS. **Vrach Delo** 1990 Mar; (3):70–2 (Eng. Abstr.) (Rus)

TOXICITY

Evaluation of the developmental toxicity of 2,3-dimercapto-1-propanesulfonate (DMPS) in mice. Effect on mineral metabolism. Bosque MA, et al. **Toxicology** 1990 Jun;62(3):311–20

DIMERCAPTOSUCCINIC ACID see under **SULFHYDRYL COMPOUNDS**

DIMETHADIONE see under **OXAZOLES**

DIMETHINDENE

PHARMACOLOGY

Effect-time-relation of the H1-receptor antagonist dimethindene maleate following intravenous injection. Rehn D, et al. **Agents Actions** 1990 Apr;30(1–2):178–81

[The effect of dimetindene on liver and kidney function in the cholestatic rat] Siegers CP, et al. **Arzneimittelforschung** 1989 Nov;39(11):1440–3 (Eng. Abstr.) (Ger)

DIMETHOATE

Effects of pesticides on filth fly predators (Coleoptera: Histeridae, Staphylinidae; Acarina: Macrochelidae, Uropodidae) in caged layer poultry manure. Wills LE, et al. **J Econ Entomol** 1990 Apr;83(2):451–7

ANALYSIS

[A simple and rapid gas chromatographic determination of residues of dimethoate in fruits and vegetables] Hanika G, et al. **Nahrung** 1989;33(10):1023–4 (Ger)

[Extraction-spectrophotometric analysis of phosphamide in reservoir water] Izoriia LE, et al. **Gig Sanit** 1989 Nov; (11):39–40 (Rus)

POISONING

A case of unusual suicidal poisoning by the organophosphorus insecticide dimethoate. Jovanović D, et al. **Hum Exp Toxicol** 1990 Jan;9(1):49–51

[Behavior of serum cholinesterase and acetylcholinesterase activity in acute dimethoate poisoning] Deike S, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):548–9 (Eng. Abstr.)

(Ger)

TOXICITY

Haematological changes induced by dimethoate in rat. Reena K, et al. **Arh Hig Rada Toksikol** 1989 Mar;40(1):23–7

Mutagenicity of systemic organophosphate pesticides metasystox and rogor. Ladhar SS, et al. **Indian J Exp Biol** 1990 Apr;28(4):390–1

Effects of some insecticides on several enzymes of tryptophan metabolism in rats. Hassan AA, et al. **J Environ Sci Health [B]** 1990 Jun;25(3):333–46

[The effect of dimethoate and vibrations on the fetal development of the rat] Weber M. **Anat Anz** 1990; 170(3–4):221–6 (Eng. Abstr.) (Ger)

DIMETHOXYPHENYLETHYLAMINE see under **PHENETHYLAMINES**

DIMETHPYRINDENE see **DIMETHINDENE**

DIMETHYL ADIPIMIDATE see under **IMIDOESTERS**

DIMETHYL SUBERIMIDATE see under **IMIDOESTERS**

DIMETHYL SULFOXIDE

Quantitation of the hydroxyl radical by reaction with dimethyl sulfoxide. Steiner MG, et al. **Arch Biochem Biophys** 1990 May 1;278(2):478–81

Conformation of secretin in dimethyl sulfoxide solution. NMR studies and restrained molecular dynamics. Hofmann M, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):95–103

Problems in the cryopreservation of unfertilized eggs by slow cooling in dimethyl sulfoxide. Trounson A, et al. **Fertil Steril** 1989 Nov;52(5):778–86

Conformational preference of Leu side chain in melanostatin in DMSO. Sasidhar YU, et al. **Indian J Biochem Biophys** 1990 Apr;27(2):69–75

Early application of topical 15% idoxuridine in dimethyl sulfoxide shortens the course of herpes simplex labialis: a multicenter placebo-controlled trial. Spruance SL, et al. **J Infect Dis** 1990 Feb;161(2):191–7

1H-NMR studies of [Sar1]angiotensin II conformation by nuclear Overhauser effect spectroscopy in the rotating frame (ROESY): clustering of the aromatic rings in dimethylsulfoxide. Matsoukas JM, et al. **Peptides** 1990 Mar–Apr;11(2):359–66

1H-NMR studies of sarmesin and [des1]sarmesin conformation in dimethylsulfoxide by nuclear Overhauser effect (NOE) enhancement spectroscopy: folding of the N- and C-terminal domains. Matsoukas JM, et al. **Peptides** 1990 Mar–Apr;11(2):367–74

ADMINISTRATION & DOSAGE

Intravesical dimethyl sulfoxide instillations in the treatment of secondary amyloidosis of the bladder. Nurmi MJ, et al. **J Urol** 1990 Apr;143(4):808–10

[Tissue protection by elimination of oxygen free radicals in the post-ischemic reperfusion phase] Feller AM, et al. **Handchir Mikrochir Plast Chir** 1990 Jan;22(1):4–13 (Eng. Abstr.) (Ger)

[Topical anesthesia of the tympanic membrane using DMSO and local anesthetics] Blessing RE, et al. **Laryngorhinootologie** 1990 May;69(5):285–8 (Eng. Abstr.) (Ger)

[Experience with the treatment of suppurative wounds using silver nitrate stabilized in dimexide] Pul'niashenko PR, et al. **Klin Khir** 1990;(1):35–6 (Eng. Abstr.) (Rus)

[Effectiveness of intra-articular dimexide in combination with hydrocortisone and hydrocortisone in patients with juvenile rheumatoid arthritis] Melikhova NI, et al. **Klin Med (Mosk)** 1989 Oct;67(10):103–5 (Eng. Abstr.) (Rus)

[Use of dimexide in the complex treatment of acute stenosing laryngotracheobronchitis in children] Kusel'man AI, et al. **Pediatriia** 1990;(5):95–6 (Rus)

[An evaluation of the efficacy of treating rheumatoid arthritis with preparations for local use] Abdullaeva GK, et al. **Revmatologiia (Mosk)** 1989 Oct–Dec;(4):35–9 (Eng. Abstr.) (Rus)

[Effect of 1-hour administration of dimethyl sulfoxide on the levels of prostaglandins, products of lipid peroxidation and beta-glucuronidase activity in the blood of patients with rheumatoid arthritis] Mu'idiiarov PIa, et al. **Revmatologiia (Mosk)** 1989 Jul–Sep;(3):6–10 (Eng. Abstr.) (Rus)

[The effect of intra-articular treatment with corticosteroids, polyvinylpyrrolidone and dimethyl sulfoxide on the composition of the synovial fluid in patients with rheumatoid arthritis] Panavene DP, et al. **Ter Arkh** 1989; 61(8):116–9 (Eng. Abstr.) (Rus)

[The use of a heparin ointment in combination with dimexide in treating psoriasis] Evstaf'ev VV. **Vestn Dermatol Venerol** 1989;(9):71–2 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

The effect on fertilization of exposure of mouse oocytes to dimethyl sulfoxide: an optimal protocol. Johnson MH. **J In Vitro Fert Embryo Transf** 1989 Jun;6(3):168–75 (33 ref.)

DMSO [letter] Thompson DC. **South Med J** 1990 Jun; 83(6):725

METABOLISM

Binding of dimethyl sulfoxide to lysozyme in crystals, studied with neutron diffraction. Lehmann MS, et al. **Biochemistry** 1989 Aug 22;28(17):7028–33

Permeability of human granulocytes to dimethyl sulfoxide. Toupin CJ, et al. **Cryobiology** 1989 Oct;26(5):422–30

A photochemical system for generating free radicals: superoxide, phenoxyl, ferryl and methyl. Prolla TA, et al. **Free Radic Res Commun** 1990;9(2):135–46

PHARMACOLOGY

Role of oxidants in ischemia/reperfusion-induced granulocyte infiltration. Zimmerman BJ, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G185–90

Regulation of hepatocyte epidermal growth factor receptors by n-butyrate and dimethyl sulfoxide: sensitivity to modulation by the tumor promoter TPA. Gladhaug IP, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1587–92

A rapid redistribution of the transferrin receptor to the cell surface of HL-60 cells and K562 cells upon treatment with dimethyl sulfoxide due to slowing of endocytosis. Vestal DJ, et al. **Arch Biochem Biophys** 1990 Jan;276(1):278–84

Antimutagenic effects of dimethyl sulfoxide on metabolism and genotoxicity of benzene in vivo. Au WW, et al. **Basic Life Sci** 1990;52:389–93

Phosphorylation of Na+, K(+)-ATPase by ATP in the presence of K+ and dimethylsulfoxide but in the absence of Na+. Barrabin H, et al. **Biochim Biophys Acta** 1990 Apr 13;1023(2):266–73

Similarities between the effects of dimethyl sulfoxide and calmodulin on the red blood cell Ca2(+)-ATPase. Benaim G, et al. **Biochim Biophys Acta** 1990 Jul 9;1026(1):87–92

Type C Niemann-Pick disease: dimethyl sulfoxide moderates abnormal LDL-cholesterol processing in mutant fibroblasts. Blanchette Mackie EJ, et al. **Biochim Biophys Acta** 1989 Nov 28;1006(2):219–26

Dimethyl sulfoxide: a possible effect on the interconversion of phosphorylated forms of Na+,K(+)-ATPase. de Moraes VL. **Biochim Biophys Acta** 1990 Jul 24; 1026(2):135–40

Effect of dimethyl sulfoxide on mouse embryo fibroblasts: inhibition of plasminogen activator inhibitor deposition and interference with early events of serum-stimulated growth. Nagashunmugam T, et al. **Biol Cell** 1989;66(3):307–15

Relationship between globin mRNA accumulation and commitment to terminal cell differentiation in inducer sensitive and resistant erythroleukemia variants. Weich N, et al. **Blood** 1990 Jul 15;76(2):302–6

Heterogeneous response to differentiation induction with different polar compounds in a clonal rat rhabdomyosarcoma cell line (BA-HAN-1C). Gerharz CD, et al. **Br J Cancer** 1989 Oct;60(4):578–84

Transport into brain of buthionine sulfoximine, an inhibitor of glutathione synthesis, is facilitated by esterification and administration of dimethylsulfoxide. Steinherz R, et al. **Brain Res** 1990 Jun 4;518(1–2):115–9

Toxic effects of secalonic acid D in mice and protection by dimethylsulfoxide. Eldeib MM, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):692–9

Concentrations of trimethoprim and sulfamethoxazole in cerebrospinal fluid and serum in mares with and without a dimethyl sulfoxide pretreatment. Green SL, et al. **Can J Vet Res** 1990 Apr;54(2):215–22

Combinations of retinoic acid with either sodium butyrate, dimethyl sulfoxide, or hexamethylene bisacetamide synergistically induce differentiation of the human myeloid leukemia cell line HL60. Breitman TR, et al. **Cancer Res** 1990 Oct 1;50(19):6268–73

Effects of dimethyl sulfoxide on dimethylbenzanthracene-induced carcinogenesis in the hamster cheek pouch. Dachi SF, et al. **Cancer Res** 1967 Jul;27(7):1183–5

Selection and preliminary characterization of variant lines of a murine macrophage tumor resistant to the antiproliferative effects of phorbol esters. Goode NT, et al. **Cancer Res** 1990 Mar 1;50(5):1510–5

Nuclear lipids in Friend cells. Shifted profile of diacylglycerol during erythroid differentiation induced by DMSO. Trubiani O, et al. **Cell Biol Int Rep** 1990 Jun; 14(6):559–66

Modulation of ornithine decarboxylase gene transcript levels by differentiation inducers in human promyelocytic leukemia HL60 cells. Rius C, et al. **Cell Differ Dev** 1989 Oct;28(1):39–46

Quantification of the DMSO-response—a test for assessment of sensitive skin. Agner T, et al. **Clin Exp Dermatol** 1989 May;14(3):214–7

Percutaneous absorption of 3 organic solvents in the guinea pig (V). Effect of "accelerants". Boman A. **Contact Dermatitis** 1989 Nov;21(5):304–11

Effect of dimethyl sulfoxide and protein concentration on the viability of two-cell mouse embryos frozen with a rapid freezing technique. Shaw JM, et al. **Cryobiology** 1989 Oct; 26(5):413–21

Effect of treatment of shell vial cell cultures with dimethyl sulfoxide and dexamethasone and age of MRC-5 monolayers for detection of cytomegalovirus. Fedorko DP, et al. **Diagn Microbiol Infect Dis** 1990 Jan–Feb;13(1):41–4

Inhibition of the metabolism of urethane in the mouse by dimethyl sulfoxide (DMSO). Waddell WJ, et al. **Drug Metab Dispos** 1989 Sep–Oct;17(5):469–72

Mechanism of inhibition of hepatic bioactivation of paracetamol by dimethyl sulfoxide. Jeffery EH, et al. **Drug Metabol Drug Interact** 1988;6(3–4):413–24

Reversible G1 arrest in the cell cycle of human lymphoid cell lines by dimethyl sulfoxide. Sawai M, et al. **Exp Cell Res** 1990 Mar;187(1):4–10

DMSO and retinoic acid induce HL-60 differentiation by different but converging pathways. Van Roozendaal KE, et al. **Exp Cell Res** 1990 Sep;190(1):137–40

Decreased content of the 35 kDa cytoskeletal protein p35 in Friend erythroleukemia cells exposed to dimethyl sulfoxide and retinoic acid is associated with entrance into a quiescent substrate. Higgins PJ, et al. **Int J Biochem** 1989; 21(6):619–26

Enhanced invasiveness and metastatic potential of epithelial cell lines cultured in the presence of dimethyl sulphoxide. Bentel JM, et al. **Int J Cancer** 1990 Aug 15;46(2):251–7

Effects of phosphate and hydrophobic molecules on two mutations in the beta-strand sector of the H(+)-ATPase from the yeast plasma membrane. Goffeau A, et al. **J Biol Chem** 1990 Sep 15;265(26):15503–5

Multiple sequential periods of DNA synthesis and quiescence in primary hepatocyte cultures maintained on the DMSO-EGF on/off protocol. Chan K, et al. **J Cell Physiol** 1989 Dec;141(3):584–90

Alterations in electrophoretic mobility, diaphorase activity, and terminal differentiation induced in murine erythroleukemia lines by differentiating agents. Gascoyne PR, et al. **J Cell Physiol** 1990 Feb;142(2):309–15

Effects of dexamethasone on induction of monocytic differentiation in human U-937 cells by dimethylsulfoxide. Nakamura T, et al. **J Cell Physiol** 1990 Feb;142(2):261–7

Enhancement by calcium of the detection of cytomegalovirus in cells treated with dexamethasone and dimethyl sulfoxide. West PG, et al. **J Clin Microbiol** 1990 Aug;28(8):1708–10

Dissolution of human brown pigment biliary stones. Dai KY, et al. **J Hepatol** 1989 Nov;9(3):301–11

Detection of human cytomegalovirus early and late antigen and DNA production in cell culture and the effects of dimethyl sulfoxide, dexamethasone, and DNA inhibitors on early antigen induction. Li SB, et al. **J Med Virol** 1990 Feb;30(2):97–102

Free radicals mediate peroxidative damage in guinea pig hippocampus in vitro. Pellmar TC, et al. **J Neurosci Res** 1989 Nov;24(3):437–44

Expression of synaptophysin and neuron-specific enolase during neuronal differentiation in vitro: effects of dimethyl sulfoxide. Schilling K, et al. **J Neurosci Res** 1989 Nov; 24(3):347–54

Decrease in sensitivity to ethidium bromide by caffeine, dimethylsulfoxide or 3-aminobenzamide due to reduced permeability. Kimura H, et al. **J Pharmacobiodyn** 1989 Oct; 12(10):589–95

The hardening effect of dimethylsulphoxide on the mouse zona pellucida requires the presence of an oocyte and is associated with a reduction in the number of cortical granules present. Vincent C, et al. **J Reprod Fertil** 1990 May;89(1):253–9

Effect of dimethylsulphoxide on cholinergic neurotransmission in guinea-pig [letter; comment] Schreiber J, et al. **Lancet** 1990 Jan 20;335(8682):174–5 Comment on: Lancet 1989 May 20;1(8647):1134–5.

Description and statistical analysis of fine structural changes in tendon fibrocytes treated with dimethyl sulfoxide. Stratton CJ, et al. **Life Sci** 1974 Nov 15;15(10):1749–56

Beta globin gene transcripts originating in the promoter region during early hexamethylene bisacetamide and dimethylsulfoxide induction of Friend erythroleukemia cells. Weidner DA, et al. **Mol Cell Biochem** 1989 Oct 31; 90(2):175–83

Dimethylsulphoxide affects the organisation of microfilaments in the mouse oocyte. Vincent C, et al. **Mol Reprod Dev** 1990 Jul;26(3):227–35

Effect of dimethylsulfoxide on human gliomas: correlations between the nuclear magnetic resonance spectra and the transformed phenotypes of the tumor cells. Geder L, et al. **Neurofibromatosis** 1989;2(1):23–34

Synaptosomal uptake of choline and of gamma-aminobutyric acid: effects of ethanol and of dimethylsulfoxide. North PE, et al. **Neurotoxicology** 1989 Fall;10(3):569–76

Elongation and maturation of c-myc RNA is inhibited by differentiation inducing agents in HL60 cells. Eick D. **Nucleic Acids Res** 1990 Mar 11;18(5):1199–205

Dimethyl sulfoxide elevates intracellular Ca2+ and mimics effects of increased light intensity in a photoreceptor. Brown HM, et al. **Pflugers Arch** 1990 Jan;415(4):395–8

Loss of the MYC gene amplified in human HL-60 cells after treatment with inhibitors of poly(ADP-ribose) polymerase or with dimethyl sulfoxide. Shima H, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7442–5

Dimethyl sulfoxide amplification of the erythropoietin response: clues to the signal transduction pathway. Chern YE, et al. **Prog Clin Biol Res** 1990;352:161–7

Effect of dimethylsulfoxide pretreatment on valproic acid pharmacokinetics in rat. Runci F, et al. **Riv Eur Sci Med Farmacol** 1988 Feb;10(1):11–6

Dimethylsulfoxide as modifier of the organospecific mutagenicity of metronidazole in mice. Hrelia P, et al. **Teratogenesis Carcinog Mutagen** 1990;10(3):263–71

Infection and uptake of duck hepatitis B virus by duck hepatocytes maintained in the presence of dimethyl sulfoxide. Pugh JC, et al. **Virology** 1989 Oct;172(2):564–72

[Suppressive effect of crocidolite fibers on the differentiation of HL–60 cells induced with DMSO] Ueki A, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1107–11 (Eng. Abstr.) **(Jpn)**

[Dimethyl sulfoxide as a corrector of disorders of cerebral hemodynamics, oxygen and carbohydrate metabolism of the brain and lipid peroxidation in the early period after intracerebral hemorrhage] Plotnikov MB, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):357–9 (Eng. Abstr.) **(Rus)**

[A comparative study of the cryoprotective properties of dimethylacetamide and dimethyl sulfoxide in preserving thrombocytes at moderately low temperatures] Azovskaia SA, et al. **Gematol Transfuziol** 1989 Dec;34(12):18–21 (Eng. Abstr.) **(Rus)**

[The effect of diphylic compounds on the transport of metabolites and cations in eukaryotic cells] Gulevskiĭ AK, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Jul–Aug;(4):507–13 (Eng. Abstr.) **(Rus)**

[Study of the effect of dimexide on the ultrastructure of Staphylococcus aureus] Fil' IuIa, et al. **Mikrobiol Zh** 1986 Sep–Oct;48(5):29–32 (Eng. Abstr.) **(Rus)**

[Increase in the in vitro activity of mollicute transcriptase using substances of an organic nature] Skripal' IG, et al. **Mikrobiol Zh** 1989 May–Jun;51(3):19–23 (Eng. Abstr.) **(Rus)**

[The effect of dimethyl sulfoxide on tissue energetics] Ioshchenko SE, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr;(2):62–4 **(Rus)**

THERAPEUTIC USE

A new liquid material for embolization of arteriovenous malformations. Taki W, et al. **AJNR** 1990 Jan–Feb;11(1):163–8

Oxygen–derived free radicals and the prevention of duodenal ulcer relapse: a new approach. Salim AS. **Am J Med Sci** 1990 Jul;300(1):1–6; discussion 7–8

Effect of dimethylsulphoxide on cysteamine–induced duodenal ulceration in rats. Ali BH. **Clin Exp Pharmacol Physiol** 1990 Jun;17(6):463–6

Mechanism of dimethylsulfoxide protection against acetaminophen hepatotoxicity. Arndt K, et al. **Drug Metab Rev** 1989;20(2–4):261–9 (18 ref.)

Failure to demonstrate reperfusion injury following ischaemia of the equine large colon using dimethyl sulphoxide. Reeves MJ, et al. **Equine Vet J** 1990 Mar;22(2):126–32

Sildimac: a new delivery system for silver sulfadiazine in the treatment of full–thickness burn injuries. Miller L, et al. **J Burn Care Rehabil** 1990 Jan–Feb;11(1):35–41

Scavenging free radicals to prevent stress–induced gastric mucosal injury [letter] Salim AS. **Lancet** 1989 Dec 9; 2(8676):1390

Antitumour properties of dimethylsulphoxide ruthenium (II) complexes in the Lewis lung carcinoma system. Sava G, et al. **Pharmacol Res** 1989 Sep–Oct;21(5):617–28

Protective effect of dimethylsulphoxide in stress– and indometacin–induced gastrointestinal ulceration in rats. Ali BH. **Pharmacology** 1989;39(2):98–102

Effect of DMSO and DFMO on rat prostate tumor growth. Carvalho L, et al. **Prostate** 1989;15(2):123–33

Conventional chemotherapeutic agents combined with DMSO or DFMO in treatment of rat prostate carcinoma. Mickey DD, et al. **Prostate** 1989;15(3):221–32

[Protein losing gastroenteropathy and renal failure in secondary amyloidosis: successful treatment with dimethylsulfoxide] Ohtoshi K, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):919–24 **(Jpn)**

[A case of type C Niemann–Pick disease] Hashimoto K, et al. **No To Hattatsu** 1990 Jul;22(4):381–3 (Eng. Abstr.) **(Jpn)**

[Dimethyl sulfoxide in the therapy of vibration disease] Kolesov VG, et al. **Gig Tr Prof Zabol** 1989;(11):17–21 (Eng. Abstr.) **(Rus)**

[The efficacy of dimethyl sulfoxide in secondary amyloidosis in patients with rheumatic diseases] Murav'ev IuV. **Revmatologiia (Mosk)** 1990 Jan–Mar;(1):4–8 (Eng. Abstr.) **(Rus)**

[Evaluation of the effect of dimethyl sulfoxide on experimental amyloidosis] Murav'ev IuV, et al. **Revmatologiia (Mosk)** 1990 Jan–Mar;(1):44–6 (Eng. Abstr.) **(Rus)**

[The effect of dimethyl sulfoxide on the thromboelastographic indices and the microcirculation in patients with rheumatic diseases] Murav'ev IuV, et al. **Ter Arkh** 1989;61(12):106–9 (Eng. Abstr.) **(Rus)**

TOXICITY

Computer–based image analysis of cartilage differentiation in embryonic limb bud micromass cultures. Garrison JC, et al. **J Microsc** 1989 Dec;156 (Pt 3):353–61

Induction of umu gene expression in Salmonella typhimurium TA1535/pSK1002 by dimethyl sulfoxide (DMSO). Nakamura S, et al. **Mutat Res** 1990 Mar;229(1):11–5

DIMETHYLALLYLTRANSFERASE see under **TRANSFERASES**

DIMETHYLAMINES

Carcinogenic properties of N–nitrodimethylamine and N–nitromethylamine in the rat. Scherf HR, et al. **Carcinogenesis** 1989 Nov;10(11):1977–81

Free radical intermediates in the oxidation of N–methylhydroxylamine and N,N–dimethylhydroxylamine by oxyhemoglobin. Stolze K, et al. **Free Radic Res Commun** 1990;8(2):123–31

ANALYSIS

The measurement of dimethylamine, trimethylamine, and trimethylamine N–oxide using capillary gas chromatography–mass spectrometry. daCosta KA, et al. **Anal Biochem** 1990 Jun;187(2):234–9

CHEMICAL SYNTHESIS

Synthesis and antiallergy activity of N–[2–(dimethylamino)ethyl]–4–aryl–1–piperazinecarboxamide derivatives. Walsh DA, et al. **J Med Chem** 1990 Jul;33(7):2028–32

METABOLISM

[Risk of endogenous N–nitrosodimethylamine formed by dimethylamine in rats—precursors stability] Zhu ST, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1990 Mar;24(2):83–5 (Eng. Abstr.) **(Chi)**

PHARMACOKINETICS

Pharmacokinetics of N–nitrodimethylamine and N–nitromethylamine in the rat. Hassel M, et al. **Carcinogenesis** 1990 Mar;11(3):357–60

Dermal absorption of the phenoxy herbicides 2,4–D, 2,4–D amine, 2,4–D isooctyl, and 2,4,5–T in rabbits, rats, rhesus monkeys, and humans: a cross–species comparison. Moody RP, et al. **J Toxicol Environ Health** 1990;29(3):237–45

PHARMACOLOGY

Activation of Escherichia coli F1–ATPase by lauryldimethylamine oxide and ethylene glycol: relationship of ATPase activity to the interaction of the epsilon and beta subunits. Dunn SD, et al. **Biochemistry** 1990 May 8;29(18):4335–40

Molecular effects of dimethylanatoxin on the peripheral nicotinic acetylcholine receptor. Costa AC, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):507–16

Effect of some 4–alkyl–5–dimethylamino–1–phenyl–1–penten–3–one hydrochlorides and related compounds on respiration in mouse liver mitochondria. Dimmock JR, et al. **Pharmazie** 1989 Aug;44(8):560–2

[The effect of N–(1–methyldodecyl)–N,N–dimethylaminoxide on the conformation of hydrocarbon chains in phospholipid bilayers isolated from Escherichia coli] Balgavy P, et al. **Biofizika** 1989 Sep–Oct;34(5):814–8 (Eng. Abstr.) **(Rus)**

DIMETHYLAMINOAZOBENZENE

Retinyl acetate inhibition of 3'–methyl–4–dimethyl–aminoazobenzene induced hepatic neoplasia. Mack DO, et al. **Int J Biochem** 1990;22(4):359–65

[Biochemical and immunohistochemical studies on alteration of aldolase isozymes in rat liver in the process of hepatocarcinogenesis by administration of a diet containing 3'–methyl–4–dimethylaminoazobenzene] Nishikawa S. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):440–9 (Eng. Abstr.) **(Jpn)**

METABOLISM

Azoreduction of dimethylaminoazobenzene (DAB) in primary cultures of rat hepatocytes. Effect of hypolipidemic agents. Stoddart AM, et al. **Drug Metab Dispos** 1990 Jan–Feb;18(1):36–41

PHARMACOLOGY

Analysis of cytological changes in hepatocytes from rats dosed with 3'–methyl–4–dimethylaminoazobenzene: initial response appears to involve cytokinesis of binucleated cells. Kelly MD, et al. **Cancer Lett** 1990 Aug;53(1):1–4

POISONING

[Ultrastructural changes in the hepatocytes in rats with dimethylaminoazobenzene poisoning] Skaro–Milić A, et al. **Vojnosanit Pregl** 1989 Jul–Aug;46(4):243–6 (Eng. Abstr.) **(Ser)**

TOXICITY

Studies on the hyperplastic responsiveness of binucleated rat hepatocytes. Styles JA, et al. **Carcinogenesis** 1990 Jul; 11(7):1149–52

DIMETHYLAMINONAPHTHALENESULFONYL COMPOUNDS see **DANSYL COMPOUNDS**

DIMETHYLAMINOPHENAZONE see **AMINOPYRINE**

7,12–DIMETHYLBENZANTHRACENE see **9,10–DIMETHYL–1,2–BENZANTHRACENE**

9,10–DIMETHYL–1,2–BENZANTHRACENE

Influence of strain and sex on the local development of mammary tumors induced by direct application of DMBA powder to rat mammary glands. Tsubura A, et al. **Acta Pathol Jpn** 1990 Jan;40(1):9–13

Light and electron microscopic study of hamster cheek pouch treated with 9,10 dimethyl 1,2 benzanthracene and retinoic acid. Potdar PD, et al. **Ann Acad Med Singapore** 1989 Sep;18(5):523–7

Absence of mutations in codon 61 of the Ha–ras oncogene in epithelial cells transformed in vitro by 7,12–dimethylbenz(a)anthracene. Mass MJ, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1319–23

Protective effect of chorionic gonadotropin on DMBA–induced mammary carcinogenesis. Russo IH, et al. **Br J Cancer** 1990 Aug;62(2):243–7

S/RV Cri–ba, a hairless mouse strain sensitive to skin tumorigenesis by suboptimal doses of 7,12–dimethylbenz[a]anthracene, initiation–promotion and two stage promotion protocols. Bhisey RA, et al. **Cancer Lett** 1990 Jun 30;52(1):63–9

Effects of dietary perilla oil, soybean oil and safflower oil on 7,12–dimethylbenz[a]anthracene (DMBA) and 1,2–dimethyl–hydrazine (DMH)–induced mammary gland and colon carcinogenesis in female SD rats. Hirose M, et al. **Carcinogenesis** 1990 May;11(5):731–5

Sequential analysis of experimental oral carcinogenesis in hamster cheek pouch using 9,10–dimethyl–1–2–benzanthracene. Gijare PS, et al. **Indian J Exp Biol** 1989 Aug;27(8):685–91

Lectin binding patterns in squamous epithelium in experimentally induced hamster buccal pouch carcinoma. Jin YT, et al. **J Oral Pathol Med** 1989 Sep;18(8):446–50

Herpes simplex virus enhances the 7,12–dimethylbenz[a]anthracene (DMBA)–induced carcinogenesis and amplification and overexpression of c–erb–B–1 proto–oncogene in hamster buccal pouch epithelium. Oh JS, et al. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4):428–35

Additivity of cytotoxic damage due to dimethylbenz(a)anthracene and X rays. Chen CC, et al. **Radiat Res** 1990 Jul;123(1):44–8

ADMINISTRATION & DOSAGE

Induction of dorsolateral prostate adenocarcinomas and other accessory sex gland lesions in male Wistar rats by a single administration of N–methyl–N–nitrosourea, 7,12–dimethylbenz(a)anthracene, and 3,2'–dimethyl–4–aminobiphenyl after sequential treatment with cyproterone acetate and testosterone propionate. Bosland MC, et al. **Cancer Res** 1990 Feb 1;50(3):691–9

METABOLISM

Cellular localization of cytochrome(s) P–450 metabolizing polycyclic aromatic hydrocarbons in the rat adrenal cortex. Hallberg E, et al. **Biochem Pharmacol** 1990 Mar 15; 39(6):1029–37

Biooxidation of 7,12–dimethylbenz[a]anthracene in rat subcutaneous tissue. Myers SR, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3199–206

Distribution of covalent DNA adducts in mouse epidermal subpopulations after topical application of benzo(a)pyrene and 7,12–dimethylbenz(a)anthracene. Baer–Dubowska W, et al. **Cancer Res** 1990 May 15;50(10):3048–54

Effect of extracellular calcium concentration on the metabolism of polycyclic aromatic hydrocarbons by cultured mouse keratinocytes. DiGiovanni J, et al. **Cancer Res** 1989 Oct 15;49(20):5567–74

Epoxide hydratase: sex specific expression and rate–limiting role in DMBA metabolism. Christou M, et al. **Carcinogenesis** 1989 Oct;10(10):1883–90

Inhibition of the binding of 7,12–dimethylbenz[a]anthracene and benzo[a]pyrene to DNA in mouse skin epidermis by 1–ethynylpyrene. Viaje A, et al. **Carcinogenesis** 1990 Jul; 11(7):1139–43

Cell–specific metabolic activation of 7,12–dimethylbenz[a]anthracene in rat testis. Georgellis A, et al. **Chem Biol Interact** 1989;72(1–2):65–78

Functional and biochemical disposition of 7,12–dimethylbenz[a]anthracene in murine lymphoid cells. Thurmond LM, et al. **Chem Biol Interact** 1989; 72(1–2):93–104

Intercalative DNA binding of model compounds derived from metabolites of 7,12–dimethylbenz[a]anthracene. Zegar IS, et al. **J Biomol Struct Dyn** 1984 Dec;2(3):531–41

Changes in hepatic xenobiotic–metabolising enzymes in mouse liver following infection with Leishmania donovani. Coombs GH, et al. **Mol Biochem Parasitol** 1990 Jun; 41(1):17–24

PHARMACOKINETICS

Metabolic activation of 7,12–dimethylbenz(a)anthracene: role of cytochrome P–450 isoenzymes in the formation of DNA and protein adducts in vitro. Cusack M, et al. **Biochem Soc Trans** 1989 Dec;17(6):1014–5

Effect of dietary butylated hydroxytoluene on the in vivo distribution, metabolism and DNA–binding of 7,12–dimethylbenz[a]anthracene. Singletary KW. **Cancer Lett** 1990 Mar;49(3):187–93

Hepatic and intestinal drug-metabolizing enzymes and the tissue distribution and excretion of 14C-7,12-dimethylbenz[a]anthracene in rats fed diets varying in fat concentration. Clinton SK, et al. **Pharmacology** 1989;39(2):89-97

PHARMACOLOGY

II. Effect of n-3 and n-6 fatty acids on mammary H-ras expression and PGE2 levels in DMBA-treated rats. Karmali RA, et al. **Anticancer Res** 1989 Jul-Aug; 9(4):1169-74

Consistent oncogene methylation changes in epithelial cells chemically transformed in vitro. Mass MJ, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):693-9

Inhibition of stage-specific DNA synthesis in rat spermatogenic cells by polycyclic aromatic hydrocarbons. Georgellis A, et al. **Chem Biol Interact** 1989;72(1-2):79-92

Presentation of antigen to suppressor cells by a dimethylbenz (a) anthracene-resistant, Ia-positive, Thy-1-negative, I-J-restricted epidermal cell. Halliday GM, et al. **Immunology** 1990 Jan;69(1):97-103

Mechanism of chemical activation of expression of the endogenous ecotropic murine leukemia provirus Emv-3. Mercer JA, et al. **J Virol** 1990 May;64(5):2245-9

Mechanism of suppression of footpad reaction in mice by 12-tetradecanoylphorbol 13-acetate and 7,12-dimethylbenz[a]anthracene. Tabara M, et al. **Jpn J Exp Med** 1990 Feb;60(1):5-11

A statistical evaluation of the reproducibility of micronucleus, sister-chromatid exchange, thioguanine-resistance and ouabain-resistance assays in V79 cells exposed to ethyl methanesulfonate and 7,12-dimethylbenz[a]anthracene. Boyes BG, et al. **Mutat Res** 1990 Apr;234(2):81-9

The effect of agent dose and treatment time on the intercellular distribution of sister-chromatid exchanges induced by genotoxic agents in mouse bone marrow cells in vivo. Tice RR, et al. **Mutat Res** 1989 Nov;215(1):25-37

Activity of DMBA, DMH and CP in triple- and single-dose rodent bone-marrow micronucleus assays. Tinwell H, et al. **Mutat Res** 1990 Jun-Aug;234(3-4):195-8

Immunophenotypic and cell cycle analysis of lymph node cells from dimethylbenzanthracene-treated mice. Halliday GM, et al. **Virchows Arch [B]** 1990;58(6):389-95

TOXICITY

Enhancement of tumor-initiating activity of DMBA by the carbamate fungicide mancozeb. Mehrotra NK, et al. **Bull Environ Contam Toxicol** 1990 Jan;44(1):39-45

Effect of the irreversible aromatase inhibitor FCE 24304 on DMBA-induced mammary tumors in ovariectomized rats treated with testosterone. Zaccheo T, et al. **Cancer Chemother Pharmacol** 1989;25(2):95-8

Changes in keratin expression during 7,12-dimethylbenz[a]anthracene-induced hamster cheek pouch carcinogenesis. Gimenez-Conti IB, et al. **Cancer Res** 1990 Jul 15;50(14):4441-5

Modulation of the co-promoting activity of gamma interferon in SENCAR and C57BL/6 mouse skin by difluoromethylornithine and the scheduling and duration of interferon treatment. Reiners JJ Jr, et al. **Carcinogenesis** 1990 Jan;11(1):129-37

Influence of hormonal disturbances on transplacental and multigeneration carcinogenesis in rats. Alexandrov VA, et al. **IARC Sci Publ** 1989;(96):35-49

Increased tumour incidence and skin tumour promotion in two generations of descendants of 7,12-dimethylbenz[a]anthracene-treated pregnant mice. Likhachev A, et al. **IARC Sci Publ** 1989;(96):81-92

7,12-Dimethylbenz[a]anthracene-induced perinatal carcinogenesis and its modulation by butylated hydroxyanisole in mice. Rao AR. **IARC Sci Publ** 1989; (96):63-74

Periodic histopathological and ultrastructural changes of excess vitamin A on oral carcinogenesis. Kandarkar SV, et al. **Indian J Exp Biol** 1990 Jan;28(1):10-7

Biological assays for irritant, tumor-initiating and tumor-promoting activities. II. Standardized initiation/promotion protocol and semiquantitative estimation of promoting (or initiating) potencies in skin of NMRI mice. Schmidt R, et al. **J Cancer Res Clin Oncol** 1989;115(6):516-24

Codon 61 mutations in the c-Harvey-ras gene in mouse skin tumors induced by 7,12-dimethylbenz[a]anthracene plus okadaic acid class tumor promoters. Fujiki H, et al. **Mol Carcinog** 1989;2(4):184-7

Retinoids as modulators of metabolism: their inhibitory effect on cyclophosphamide and 7,12-dimethylbenz[a]anthracene induced sister chromatid exchanges in a metabolically competent cell line. Cozzi R, et al. **Mutagenesis** 1990 Jul; 5(4):397-401

Effect of treatment protocol and sample time on the frequencies of micronucleated polychromatic erythrocytes in mouse bone marrow and peripheral blood. Tice RR, et al. **Mutagenesis** 1990 Jul;5(4):313-21

Inhibition of meiotic divisions of rat spermatocytes in vitro by polycyclic aromatic hydrocarbons. Georgellis A, et al. **Mutat Res** 1990 Aug;231(2):125-35

Comparative genotoxicity of 3 procarcinogens in V79 cells as related to glutathione S-transferase activity of hepatocytes from untreated rats and those fed 2% butylated hydroxyanisole. Rogers CG, et al. **Mutat Res** 1990 Jun; 244(2):163-71

On the differential responsiveness of males and females in the micronucleus assay. Urlando C, et al. **Mutat Res** 1990 Jun-Aug;234(3-4):199-204

Cytotoxicity, anchorage-independent growth, and DNA adduct formation in human neonatal fibroblasts by 1,2,3,4-tetrahydro-7,12-dimethylbenz(a)-anthracene (TH-DMBA), its six aryl fluoro regioisomers, and an exo methylene tautomer. Kumari HL, et al. **Teratogenesis Carcinog Mutagen** 1990;10(3):247-62

[The detection of the chicken sarcoma virus D6 in a tumor induced by 7,12-dimethylbenz(a)anthracene] Diad'kova AM. **Vopr Onkol** 1990;36(6):700-4 (Eng. Abstr.) **(Rus)**

DIMETHYLCYSTEINE see **PENICILLAMINE**

DIMETHYLDITHIOCARBAMATE see under **THIOCARBAMATES**

DIMETHYLERGOMETRIN see **METHYSERGIDE**

DIMETHYLFORMAMIDE

Proton-induced dismutation of superoxide in aprotic media by bile pigments. Ribó JM, et al. **Experientia** 1990 Jan 15; 46(1):63-7

ADVERSE EFFECTS

Fulminant hepatic failure in poisoning due to ingestion of T 61, a veterinary euthanasia drug. Nicolas F, et al. **Crit Care Med** 1990 May;18(5):573-5

Clinical and pathological characteristics of hepatotoxicity associated with occupational exposure to dimethylformamide. Redlich CA, et al. **Gastroenterology** 1990 Sep;99(3):748-57

Liver injury in workers exposed to dimethylformamide. Fleming LE, et al. **Scand J Work Environ Health** 1990 Aug;16(4):289-92

[Status of reproductive function and the development and health of children of female workers in the synthetic leather industry] Ivanova NIu, et al. **Gig Tr Prof Zabol** 1989; (7):28-31 (Eng. Abstr.) **(Rus)**

METABOLISM

Paracoccus aminophilus sp. nov. and Paracoccus aminovorans sp. nov., which utilize N,N-dimethylformamide. Urakami T, et al. **Int J Syst Bacteriol** 1990 Jul;40(3):287-91

PHARMACOLOGY

Triple combination of retinoic acid plus actinomycin D plus dimethylformamide induces differentiation of human acute myeloid leukaemic blasts in primary culture. Hassan HT, et al. **Cancer Chemother Pharmacol** 1990;26(1):26-30

Heterogeneous response to differentiation induction in different clonal subpopulations of a rat rhabdomyosarcoma cell line (BA-HAN-1). Gerharz CD, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7132-40

Direct automated EMIT d.a.u. analysis of N,N-dimethylformamide-modified serum, plasma, and postmortem blood for benzodiazepines, benzoylecgonine, cannabinoids, and opiates. Blum LM, et al. **J Anal Toxicol** 1989 Sep-Oct;13(5):285-8

Modulation of the expression of a multidrug resistance gene (mdr-1/P-glycoprotein) by differentiating agents. Mickley LA, et al. **J Biol Chem** 1989 Oct 25;264(30):18031-40

POISONING

[Long-term sequelae of acute dimethylformamide poisoning] Karamova LM, et al. **Gig Tr Prof Zabol** 1990;(4):54-5 **(Rus)**

TOXICITY

Dimethylformamide. **IARC Monogr Eval Carcinog Risks Hum** 1989;47:171-97 (178 ref.)

DIMETHYLGUANYLGUANIDINE see **METFORMIN**

DIMETHYLHYDRAZINES see under **METHYLHYDRAZINES**

DIMETHYLNITROSAMINE

Morphological and immunohistochemical characteristics of dimethylnitrosamine-induced malignant mesenchymal renal tumor in F-344 rats. Dezso B, et al. **J Cancer Res Clin Oncol** 1990;116(4):372-8

Investigation into the effect of DHEA on renal carcinogenesis induced in the rat by a single dose of DMN. Ogiu T, et al. **Nutr Cancer** 1990;14(1):57-67

[Mechanism of promoting effects of riboflavin deficiency on carcinogenesis of nitrosamines—effects on rat liver glutathione content] Chiao CH. **Chung Hua Chung Liu Tsa Chih** 1989 Mar;11(2):92-4 (Eng. Abstr.) **(Chi)**

[Calculation of maximum allowable concentration of N-nitrosodimethylamine and N-nitrosodiethylamine based on chronic experiments in mice] Litvinov NN, et al. **Gig Sanit** 1990 Apr;(4):33-6 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

[Studies on dichlorvos (DDVP). III. Testing of dichlorvos for cocarcinogenic activity in mice] Horn KH, et al. **Arch Geschwulstforsch** 1990;60(2):117-24 (Eng. Abstr.) **(Ger)**

ANALYSIS

Determination of N-nitrosodimethylamine in fish products using gas chromatography with nitrogen-phosphorus detection. Takatsuki K, et al. **J Chromatogr** 1990 Jun 1; 508(2):357-62

METABOLISM

Effect of short-term exposure of rats to dehydroepiandrosterone on the hepatic metabolism of dimethylnitrosamine. Prasanna HR, et al. **Biochem J** 1989 Sep 15;262(3):985-8

Detoxifying potential of thioproline against N-nitroso compounds, N-nitrosodimethylamine and N-nitrosocimetidine. Frank N, et al. **Cancer Lett** 1990 Apr 30;50(3):167-72

An important role for cytosol in the microsomal metabolism of N-nitrosodimethylamine to a mutagen: evidence for two different mutagenic metabolites. Guttenplan JB. **Cancer Lett** 1989 Sep 15;47(1-2):63-7

Metabolic denitrosation of N-nitrosodimethylamine in vivo in the rat. Streeter AJ, et al. **Cancer Res** 1990 Feb 15; 50(4):1144-50

Human cytochrome P450IIA3: cDNA sequence, role of the enzyme in the metabolic activation of promutagens, comparison to nitrosamine activation by human cytochrome P450IIE1. Crespi CL, et al. **Carcinogenesis** 1990 Aug;11(8):1293-300

Influence of dithiocarbamates on the metabolism and toxicity of N-nitrosodimethylamine in rats. Frank N, et al. **Carcinogenesis** 1990 Feb;11(2):199-203

In vivo inhibition of N-nitrosodimethylamine metabolism by 4-methylpyrazole: a model for endogenous nitrosation. Perciballi M, et al. **Carcinogenesis** 1989 Dec;10(12):2303-9

Effect of cooking on availability and in vitro nitrosation of precursors of volatile N-nitroso compounds in seafood. Lintas C, et al. **Food Addit Contam** 1990 Jan-Feb;7(1):37-42

N-nitrosodimethylamine blood levels in patients with chronic renal failure: modulation of levels by ethanol and ascorbic acid. Dunn SR, et al. **J Natl Cancer Inst** 1990 May 2; 82(9):783-7

Changes in hepatic xenobiotic-metabolising enzymes in mouse liver following infection with Leishmania donovani. Coombs GH, et al. **Mol Biochem Parasitol** 1990 Jun; 41(1):17-24

Effect of phenethyl isothiocyanate on microsomal N-nitrosodimethylamine metabolism and other monooxygenase activities. Ishizaki H, et al. **Xenobiotica** 1990 Mar;20(3):255-64

[Risk of endogenous N-nitrosodimethylamine formed by dimethylamine in rats—precursors stability] Zhu ST, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1990 Mar;24(2):83-5 (Eng. Abstr.) **(Chi)**

[Inhibiting effect of the polyphenolic complex from Plantago major (plantastine) on the carcinogenic effect of endogenously synthesized nitrosodimethylamine] Karpilovskaia ED, et al. **Farmakol Toksikol** 1989 Jul-Aug; 52(4):64-7 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Interspecies scaling of the pharmacokinetics of N-nitrosodimethylamine. Gombar CT, et al. **Cancer Res** 1990 Jul 15;50(14):4366-70

PHARMACOLOGY

Augmented macrophage PGE2 production following exposure to dimethylnitrosamine in vivo: relevance to suppressed T cell responses. Myers MJ, et al. **Immunopharmacology** 1989 Sep-Oct;18(2):115-24

Induction of serum colony-stimulating activity (CSA) following dimethylnitrosamine (DMN) exposure: effects on macrophage differentiation. Myers MJ, et al. **Immunopharmacology** 1989 Sep-Oct;18(2):125-34

Interspecies comparisons of in vitro hepatocarcinogenesis. Lipsky MM, et al. **Prog Clin Biol Res** 1990;331:395-408

TOXICITY

Promoting effect of basic lead acetate administration on the tumorigenesis of lung in N-nitrosodimethylamine-treated mice. Sakai K, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):707-14

Modulation of O6-methylguanine-DNA methyltransferase in rat and hamster liver after treatment with dimethylnitrosamine. Hall J, et al. **Cancer Res** 1990 Sep 1;50(17):5426-30

Effect of long-term inhalation of N-nitroso-dimethylamine (NDMA) and SO2/NOx in rats. Klein RG, et al. **Exp Pathol** 1989;37(1-4):273-80

Re-evaluation of the effect of ellagic acid on dimethylnitrosamine mutagenicity. Lord HL, et al. **Mutagenesis** 1989 Nov;4(6):453-5

Unscheduled DNA synthesis after treatment with 20-methylcholanthrene and N-nitrosodimethylamine in

primary culture of human gallbladder epithelial cells. Miyazaki K, et al. **Mutat Res** 1990 Mar;235(2):81–4
Comparative genotoxicity of 3 procarcinogens in V79 cells as related to glutathione S-transferase activity of hepatocytes from untreated rats and those fed 2% butylated hydroxyanisole. Rogers CG, et al. **Mutat Res** 1990 Jun; 244(2):163–71
Toxicity of N-nitrosodimethylamine, N-nitrosomethylbenzylamine, and 1,2-dimethylhydrazine in isolated rat hepatocytes. Catz-Biro L, et al. **Toxicol Appl Pharmacol** 1990 Jan;102(1):191–4
Role of metabolism in dimethylnitrosamine-induced immunosuppression: a review. Haggerty HG, et al. **Toxicology** 1990 Jul;63(1):1–23 (78 ref.)
[Carcinogenic hazard of nitrosodimethylamine in humans] Benemdinskil VV. **Gig Sanit** 1989 Aug;(8):4–7 (Eng. Abstr.) **(Rus)**

DIMETHYLPOLYSILOXANES see under **SILICONES**

16,16-DIMETHYLPROSTAGLANDIN E2 see under **PROSTAGLANDINS E, SYNTHETIC**

N,N-DIMETHYLTRYPTAMINE see under **TRYPTAMINES**

DIMETRIDAZOLE see under **NITROIMIDAZOLES**

DIMEXIDE see **DIMETHYL SULFOXIDE**

DIMILIN see under **JUVENILE HORMONES**

DIMINAZENE see under **AMIDINES**

DIMYRISTOYLLECITHIN see **DIMYRISTOYLPHOSPHATIDYLCHOLINE**

DIMYRISTOYLPHOSPHATIDYLCHOLINE

A region-matched hydrophobic interaction between melittin and dimyristoylphosphatidylcholine in a ternary mixture of phosphatidylcholines. Ohki K. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):850–6
Effects of cholesterol on conformational disorder in dipalmitoylphosphatidylcholine bilayers. A quantitative IR study of the depth dependence. Davies MA, et al. **Biochemistry** 1990 May 8;29(18):4368–73
Deuterium NMR of Val1...(2-2H)Ala3...gramicidin A in oriented DMPC bilayers. Hing AW, et al. **Biochemistry** 1990 May 1;29(17):4144–56
Deuterium NMR of 2HCO-Val1...gramicidin A and 2HCO-Val1-D-Leu2...gramicidin A in oriented DMPC bilayers. Hing AW, et al. **Biochemistry** 1990 May 1; 29(17):4156–66
Effect of micelle diameter on tryptophan dynamics in an amphipathic helical peptide in phosphatidylcholine. McLean LR, et al. **Biochemistry** 1989 Oct 17; 28(21):8403–10
Interaction between perdeuterated dimyristoylphosphatidylcholine and low molecular weight pulmonary surfactant protein SP-C. Simatos GA, et al. **Biochemistry** 1990 Jun 19;29(24):5807–14
NMR, calorimetric, spin-label, and optical studies on a trifluoromethyl-substituted styryl molecular probe in dimyristoylphosphatidylcholine vesicles and multilamellar suspensions: a model for location of optical probes [published erratum appears in Biochim Biophys Acta 1990 Aug 10;1027(1):103] Bammel BP, et al. **Biochim Biophys Acta** 1990 May 9;1024(1):61–81
Mode of assembly of amphipathic helical segments in model high-density lipoproteins. Brasseur R, et al. **Biochim Biophys Acta** 1990 Apr 17;1043(3):245–52
Phase transition from a gel to a fluid phase of cubic symmetry in dimyristoylphosphatidylcholine/myristic acid (1:2, mol/mol) bilayers. Heimburg T, et al. **Biochim Biophys Acta** 1990 Jun 11;1025(1):77–81
Transverse nuclear spin relaxation in phosphatidylcholine bilayers containing gramicidin. Morrow MR. **Biochim Biophys Acta** 1990 Apr 13;1023(2):197–205
Spin label ESR and 31P-NMR studies of the cubic and inverted hexagonal phases of dimyristoylphosphatidylcholine/myristic acid (1:2, mol/mol) mixtures. Rama Krishna YV, et al. **Biochim Biophys Acta** 1990 May 9;1024(1):89–94
Abscisic acid-induced microheterogeneity in phospholipid vesicles. A fluorescence study. Parasassi T, et al. **Biophys Chem** 1990 Jan;35(1):65–73
Specular reflection of neutrons at phospholipid monolayers. Changes of monolayer structure and headgroup hydration at the transition from the expanded to the condensed phase state. Bayerl TM, et al. **Biophys J** 1990 May;57(5):1095–8
On the modulation of a high-enthalpy pretransition in binary mixtures of DMPC and DMPG by polar headgroup interaction. Bayerl TM, et al. **Biophys J** 1990 Mar; 57(3):675–80
Optimizing and characterizing alignment of oriented lipid bilayers containing gramicidin D. Moll F 3d, et al. **Biophys J** 1990 Feb;57(2):351–62
Slow motions in oriented phospholipid bilayers and effects of cholesterol or gramicidin. A 19F-NMR T1 rho study. Peng ZY, et al. **Biophys J** 1989 Nov;56(5):877–85
Lateral diffusivity of lipid analogue excimeric probes in dimyristoylphosphatidylcholine bilayers. Sassaroli M, et al. **Biophys J** 1990 Feb;57(2):281–90
Thermodynamics of phosphatidylcholine-cholesterol mixed model membranes in the liquid crystalline state studied by the orientational order parameter. Shin YK, et al. **Biophys J** 1989 Dec;56(6):1093–100
Dynamics of phosphatidylcholine-cholesterol mixed model membranes in the liquid crystalline state. Shin YK, et al. **Biophys J** 1990 Mar;57(3):445–59
Translational diffusion and fluid domain connectivity in a two-component, two-phase phospholipid bilayer. Vaz WL, et al. **Biophys J** 1989 Nov;56(5):869–76
Incorporation of amphotericin B into large unilamellar vesicles composed of phosphatidylcholine and phosphatidylglycerol. Madden TD, et al. **Chem Phys Lipids** 1990 Feb;52(3–4):189–98
Thickness measurements of single walled dimyristoyl phosphatidylcholine vesicles by neutron scattering. Sadler DM, et al. **Chem Phys Lipids** 1990 Jan;52(1):41–8
Enhanced fluctuations in small phospholipid bilayer vesicles containing cholesterol. Michels B, et al. **Eur Biophys J** 1989;17(4):187–90
Interaction of filipin with dimyristoylphosphatidylcholine membranes studied by 2H-NMR, circular dichroism, electronic absorption and fluorescence. Milhaud J, et al. **Eur Biophys J** 1989;17(3):151–8
Nuclear magnetic resonance investigation of the interactions with phospholipid of an amphipathic alpha-helix-forming peptide of the apolipoprotein class. Lund-Katz S, et al. **J Biol Chem** 1990 Jul 25;265(21):12217–23
Spontaneous insertion of integral membrane proteins into preformed unilamellar vesicles. Zakim D, et al. **Methods Enzymol** 1989;171:253–64
X-ray and fluorescence studies on phospholipid bilayers. IX. Interactions with pentachlorophenol. Suwalsky M, et al. **Z Naturforsch [C]** 1990 Mar-Apr;45(3–4):265–72

ANALOGS & DERIVATIVES

Antibodies to liposomal phosphatidylcholine and phosphatidylsulfocholine. Wassef NM, et al. **Biochem Cell Biol** 1990 Jan;68(1):54–8

ANALYSIS

Orientation of xanthophylls in phosphatidylcholine multibilayers. Gruszecki WI, et al. **Biochim Biophys Acta** 1990 Apr 30;1023(3):405–12

METABOLISM

Lipid lateral diffusion measurements in model membranes. Páli T, et al. **Acta Physiol Hung** 1989;74(3–4):311–4
Examination of the role of the amphipathic alpha-helix in the interaction of neuropeptide Y and active cyclic analogues with cell membrane receptors and dimyristoylphosphatidylcholine. McLean LR, et al. **Biochemistry** 1990 Feb 27;29(8):2016–22
Evaluation of membrane phase behavior as a tool to detect extrinsic protein-induced domain formation: binding of prothrombin to phosphatidylserine/phosphatidylcholine vesicles. Tendian SW, et al. **Biochemistry** 1990 Jul 17; 29(28):6720–9
Exchange and flip-flop of dimyristoylphosphatidylcholine in liquid-crystalline, gel, and two-component, two-phase large unilamellar vesicles [published erratum appears in Biochemistry 1990 May 15;29(19):4746] Wimley WC, et al. **Biochemistry** 1990 Feb 6;29(5):1296–303
Protection by sugars against phase transition-induced leak in hydrated dimyristoylphosphatidylcholine liposomes. Fabrie CH, et al. **Biochim Biophys Acta** 1990 May 24; 1024(2):380–4
The lipopeptide antibiotic A21978C has a specific interaction with DMPC only in the presence of calcium ions. Lakey JH, et al. **Biochim Biophys Acta** 1989 Oct 2;985(1):60–6

DINITOLMIDE see under **BENZAMIDES**

DINITROBENZENES see under **NITROBENZENES**

DINITROCHLOROBENZENE

Contact sensitivity to dinitrochlorobenzene is impaired in atopic subjects. Controversy revisited. Rees J, et al. **Arch Dermatol** 1990 Sep;126(9):1173–5
Antigen-restricted antigenic competition induced by 2,4-dinitrochlorobenzene: association with depression of lymphocyte proliferation. Kimber I, et al. **Int Arch Allergy Appl Immunol** 1990;91(3):315–22
Dinitrochlorobenzene contact hypersensitivity as a marker trait for selection to improve disease resistance in calves. Burton JL, et al. **J Dairy Sci** 1989 Sep;72(9):2351–61

ADVERSE EFFECTS

The immunology of allergic contact dermatitis: the DNCB story. Friedmann PS. **Adv Dermatol** 1990; 5:175–95;discussion 196 (45 ref.)
Langerhans cells in squamous cell carcinoma [letter; comment] Rees J, et al. **Arch Dermatol** 1990 Feb; 126(2):247–8 Comment on: Arch Dermatol 1989 Jul;125(7):917–20.
Contact urticaria during topical immunotherapy. Tosti A, et al. **Contact Dermatitis** 1989 Sep;21(3):196–7
Erythema multiforme due to DNCB. Viraben R, et al. **Contact Dermatitis** 1990 Mar;22(3):179

DIAGNOSTIC USE

The influence of area of application on sensitization by dinitrochlorobenzene. Rees JL, et al. **Br J Dermatol** 1990 Jan;122(1):29–31
Association between blood transfusion, HLA-DRW6, and response to dinitrochlorobenzene skin test. Tsakiris D, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):705–7
[Model antigens and their significance for occupational dermatology] Schwartze G, et al. **Z Gesamte Hyg** 1989 Jul;35(7):422–3 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Factors affecting the inactivation of human placental glutathione S-transferase pi. The kinetic mechanism and pH-dependence of solvational and 1-chloro-2,4-dinitrobenzene-mediated inactivation of the enzyme. Adams PA, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1883–9

THERAPEUTIC USE

D.N.C.B. for malignant melanoma: significance in the treatment strategy. Truchetet F, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1531–6 (25 ref.)
The effects of DNCB therapy on the T-cell subsets of the cases with alopecia areata [letter] Gülekon A, et al. **Int J Dermatol** 1989 Dec;28(10):684–5

TOXICITY

Kinetics and morphology of chemically induced popliteal lymph node reactions compared with antigen-, mitogen-, and graft-versus-host-reaction-induced responses. De Bakker JM, et al. **Virchows Arch [B]** 1990;58(4):279–87

DINITROCRESOLS see under **CRESOLS**

DINITROFLUOROBENZENE see under **NITROBENZENES**

DINITROPHENOLS

Simultaneous anterograde labelling of two afferent pathways to the same target area with Phaseolus vulgaris leucoagglutinin and Phaseolus vulgaris leucoagglutinin conjugated to biotin or dinitrophenol. Antal M, et al. **J Chem Neuroanat** 1990 Jan-Feb;3(1):1–9
An immunocytochemical method for localization of estrogen receptors in rat tissues using a dinitrophenyl (DNP)-labeled rat monoclonal primary antibody. Gee JM, et al. **J Histochem Cytochem** 1990 Jan;38(1):69–78
Synthesis and use of labelled nucleoside phosphoramidite building blocks bearing a reporter group: biotinyl, dinitrophenyl, pyrenyl and dansyl. Roget A, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7643–51

ANALYSIS

Dinoseb presence in agricultural subsurface drainage from potato fields in northwestern New Brunswick, Canada. O'Neill HJ, et al. **Bull Environ Contam Toxicol** 1989 Dec; 43(6):935–40

ANTAGONISTS & INHIBITORS

Glucose reverses 2,4-dinitrophenol induced changes in action potentials and membrane currents of guinea pig ventricular cells via enhanced glycolysis. Nakamura S, et al. **Cardiovasc Res** 1989 Apr;23(4):286–94

DIAGNOSTIC USE

[Model antigens and their significance for occupational dermatology] Schwartze G, et al. **Z Gesamte Hyg** 1989 Jul;35(7):422–3 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Neurogenic inflammation, vascular permeability, and mast cells. Capsaicin desensitization fails to influence IgE-anti-DNP induced vascular permeability in rat airways. Didier A, et al. **Am Rev Respir Dis** 1990 Feb; 141(2):398–406
Binding of a mouse monoclonal IgE (anti-DNP) antibody to radio-derivatized polystyrene-DNP complexes. Varga JM, et al. **FASEB J** 1990 Jun;4(9):2678–83
A study of the 'termination' of tolerance to BSA with DNP-BSA in rabbits: relative affinities of the antibodies for the immunizing and the paralysing antigens. Paul WE, et al. **Immunology** 1967 Aug;13(2):147–57
The presence of infectious virus but not conventional antigen can exacerbate graft-versus-host reactions. Cray C, et al. **Scand J Immunol** 1990 Aug;32(2):177–82

METABOLISM

[BANA hydrolase and DNP peptidase activities in the ovulatory process of PMS-hCG treated immature rat] Shibata S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov;41(11):1750–4 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Penetrating the conjunctival barrier. The role of molecular weight. Kahn M, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):258–61

PHARMACOLOGY

Effects of glutaraldehyde and metabolic inhibitors on the vibratory responses in the isolated cochlea. Flock A, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:209–19

The stimuli releasing histamine from murine bone marrow–derived mast cells. 1. The presence of P2–purinoceptors. Nakamura H, et al. **Arerugi** 1989 Dec; 38(12):1359–63

Mitotic patterns and DNA synthesis in dinitrophenol–treated sea urchin eggs. Kojima MK, et al. **Eur J Cell Biol** 1990 Jun;52(1):129–34

Metabolic inhibitors reversibly alter the basal membrane potential of the gecko retinal pigment epithelium. Griff ER. **Exp Eye Res** 1990 Jan;50(1):99–107

Post–metaphase mitotic events in cells treated with dinitrophenol. Ghosh S, et al. **Indian J Exp Biol** 1989 Apr; 27(4):317–23

Lactating mouse mammary cell uptake of 59Fe–transferrin. The effect of KCN, 2,4–dinitrophenol, ethanol and ATP. Moutafchiev DA, et al. **Int J Biochem** 1990;22(3):311–3

Prolonged aerobic exercise: physiological studies in rat gastrocnemius with additional observations on the effects of acute mitochondrial blockade. Byrne E, et al. **J Neurol Sci** 1989 Sep;92(2–3):215–27

Relationship between coronary flow and high energy phosphates in the isolated perfused rat heart, with special reference to the effects of anoxia, iodoacetic acid, and 2,4–dinitrophenol. Shibano T, et al. **Methods Find Exp Clin Pharmacol** 1989 Sep;11(9):567–75

Memory formation processes in weakly reinforced learning. Crowe SF, et al. **Pharmacol Biochem Behav** 1989 Aug; 33(4):881–7

Effect of retraining trials on memory consolidation in weakly reinforced learning. Crowe SF, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):889–94

Facilitation of glycolysis reverses shortened action potential and increased outward K+ current induced by 2,4–dinitrophenol in isolated ventricular myocytes. Nakamura S, et al. **Prog Clin Biol Res** 1989;315:610–2

[The induction of the beta state of the comuton regulation of mitochondrial oxidative phosphorylation by 2,4–DNP and malonate] Chelidze MA, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):926–30 (Eng. Abstr.) **(Rus)**

DINOFLAGELLIDA

see related

SAXITOXIN

Prophylactic and therapeutic use of an anti–brevetoxin (PbTx–2) antibody in conscious rats. Templeton CB, et al. **Toxicon** 1989;27(12):1389–95

ANALYSIS

Crystallization and preliminary X–ray analysis of a peridinin–chlorophyll a protein from Amphidinium carterae. Steck K, et al. **FEBS Lett** 1990 Jul 30;268(1):48–50

Cytotoxic macrolides from a cultured marine dinoflagellate of the genus Amphidinium. Kobayashi J, et al. **J Nat Prod** 1989 Sep–Oct;52(5):1036–41

Identification of okadaic acid from a Caribbean dinoflagellate, Prorocentrum concavum. Dickey RW, et al. **Toxicon** 1990;28(4):371–7

GENETICS

Electron microscopy of liquid crystalline DNA: direct evidence for cholesteric–like organization of DNA in dinoflagellate chromosomes. Rill RL, et al. **Chromosoma** 1989 Oct;98(4):280–6

GROWTH & DEVELOPMENT

A circannual rhythm in cysts formation and growth rates in the dinoflagellate Scripsiella trochoidea Stein. Costas E, et al. **Chronobiologia** 1989 Jul–Sep;16(3):265–70

Changes in bacterial populations during red tides caused by Mesodinium rubrum and Gymnodinium catenatum in North West Coast of Spain. Romalde JL, et al. **J Appl Bacteriol** 1990 Feb;68(2):123–32

ISOLATION & PURIFICATION

Patterns of experimental contamination by Protogonyaulax tamarensis in some French commercial shellfish. Lassus P, et al. **Toxicon** 1989;27(12):1313–21

METABOLISM

Basic nuclear proteins of the histone–less eukaryote Crypthecodinium cohnii (Pyrrhophyta): two–dimensional electrophoresis and DNA–binding properties. Vernet G, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2–3):281–9

Chemistry, clones, and circadian control of the dinoflagellate bioluminescent system. The Marlene DeLuca memorial lecture. Hastings JW. **J Biolumin Chemilumin** 1989 Jul; 4(1):12–9 (30 ref.)

Paralytic shellfish toxins in bivalves which are not associated with dinoflagellates. Ogata T, et al. **Toxicon** 1989; 27(11):1241–4

MICROBIOLOGY

Production of paralytic shellfish toxins by a bacterium Moraxella sp. isolated from Protogonyaulax tamarensis. Kodama M, et al. **Toxicon** 1990;28(6):707–14

PATHOGENICITY

Ciguatera fish poisoning: barracuda's revenge [editorial; comment] Morris JG Jr. **South Med J** 1990 Apr;83(4):371–2 Comment on: South Med J 1990 Apr;83(4):379–82.

Ciguatera fish poisoning: an outbreak associated with fish caught from North Carolina coastal waters [see comments] Morris PD, et al. **South Med J** 1990 Apr;83(4):379–82 Comment in: South Med J 1990 Apr;83(4):371–2.

PHYSIOLOGY

Phase of the circadian clock is accurately transferred from mother to daughter cells in the dinoflagellate Gonyaulax polyedra. Homma K, et al. **Cell Biophys** 1990 Jan–Apr; 16(1–2):85–97

The circadian bioluminescence rhythm of Gonyaulax is related to daily variations in the number of light–emitting organelles. Fritz L, et al. **J Cell Sci** 1990 Feb;95 (Pt 2):321–8

Circadian control over synthesis of many Gonyaulax proteins is at a translational level. Milos P, et al. **Naturwissenschaften** 1990 Feb;77(2):87–9

RADIATION EFFECTS

Effects of solar radiation on photoorientation, motility and pigmentation in a freshwater Peridinium. Häder DP, et al. **Biosystems** 1990;23(4):335–43

ULTRASTRUCTURE

Location of B– and Z–DNA in the chromosomes of a primitive eukaryote dinoflagellate. Soyer–Gobillard MO, et al. **J Cell Biol** 1990 Aug;111(2):293–304

DINOPROST

ADMINISTRATION & DOSAGE

Intrafetal prostaglandin F2 alpha administration for midtrimester pregnancy termination: a case report. Christodoulou CN, et al. **Am J Obstet Gynecol** 1990 May; 162(5):1245–6

Intra/extra–amniotic administration of prostaglandin F2a in fetal death, missed and therapeutic abortions. Salamalekis E, et al. **Clin Exp Obstet Gynecol** 1990;17(1):17–21 (13 ref.)

Controlled–release prostaglandin E2 pessary [letter] Taylor AV, et al. **Lancet** 1990 Sep 15;336(8716):692

Influence of repeated prostaglandin F2 alpha injections on the ovarian function in the heifer. Aiumlamai S, et al. **Zentralbl Veterinarmed** [A] 1989 Aug;36(7):530–8

[Personal experience with labor induction using prostaglandins 1985–1987] Roztočil A, et al. **Cesk Gynekol** 1990 Mar;55(2):88–96 (Eng. Abstr.) **(Cze)**

[Treatment of severe postpartum atony with prostaglandin] Høgdall CK, et al. **Ugeskr Laeger** 1989 Sep 18; 151(38):2410–3 (22 ref.) (Eng. Abstr.) **(Dan)**

[A new method of treating tubal pregnancy using prostaglandin F2a and E2] Egarter C, et al. **Arch Gynecol Obstet** 1989;245(1–4):413–5 (Eng. Abstr.) **(Ger)**

[Laparoscopic treatment of tubal pregnancy with prostaglandins] Deckardt R, et al. **Geburtshilfe Frauenheilkd** 1990 Jul;50(7):533–7 (Eng. Abstr.) **(Ger)**

[Treatment of tubal pregnancy with prostaglandins: a multicenter study] Egarter C, et al. **Geburtshilfe Frauenheilkd** 1989 Sep;49(9):808–12 (Eng. Abstr.) **(Ger)**

[Pregnancy following prostaglandin F2 alpha treatment of tubal pregnancy] Rosen A, et al. **Geburtshilfe Frauenheilkd** 1990 Jul;50(7):577–8 (Eng. Abstr.) **(Ger)**

[Conservative treatment of early tubal pregnancy] Husslein P. **Gynakol Rundsch** 1989;29 Suppl 3:28–34 (Eng. Abstr.) **(Ger)**

[Treatment of in situ tubal pregnancy with prostaglandins] Husslein P. **Gynakol Rundsch** 1989;29 Suppl 2:294–8 **(Ger)**

[Induction of labor with peroral tablets of PGE2–Prostin Upjohn] Roztočil A, et al. **Zentralbl Gynakol** 1989; 111(18):1253–60 (Eng. Abstr.) **(Ger)**

[The effect of Enzaprost–F (PGF2) cervical tablets on the corpus luteum in the human body] Farkas M, et al. **Morphol Igazsagugyi Orv Sz** 1990 Apr;30(2):134–9 (Eng. Abstr.) **(Hun)**

[Polymer materials for biomedical use obtained by radiation methods. IV. The therapeutic system for local release of prostaglandins] Rosiak J, et al. **Polim Med** 1989; 19(3–4):93–106 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

Ventricular tachycardia associated with injection of prostaglandin F2 alpha into the uterine cervix during anesthesia [letter] Shoham Z, et al. **Anesthesiology** 1990 Apr;72(4):775–6

Cardiorespiratory collapse and pulmonary oedema due to intravascular absorption of prostaglandin F2 alpha administered extraamniotically for midtrimester termination of pregnancy. Wein P, et al. **Aust N Z J Obstet Gynaecol** 1989 Aug;29(3 Pt 1):261–3

Control of prostaglandin induced uterine hyperactivity with intravenous ritodrine. Fejgin M, et al. **Int J Gynaecol Obstet** 1989 Oct;30(2):177–8

ANALOGS & DERIVATIVES

Ocular effects of two different prostaglandin F2 alpha esters. A doublemasked cross–over study on normotensive eyes. Villumsen J, et al. **Acta Ophthalmol (Copenh)** 1990 Jun; 68(3):341–3

Prolactin and plasma prostaglandin metabolite levels in patients undergoing nipple stimulation contraction stress tests. Rijhsinghani AG, et al. **Am J Perinatol** 1990 Jan; 7(1):43–5

Plasma elevations of histamine and a prostaglandin metabolite in acute bronchiolitis. Skoner DP, et al. **Am Rev Respir Dis** 1990 Aug;142(2):359–64

The effect of adding prostaglandin F2 alpha–isopropylester to timolol in patients with open angle glaucoma. Villumsen J, et al. **Arch Ophthalmol** 1990 Aug;108(8):1102–5

Prostaglandin F2 alpha–isopropylester eye drops: effect on intraocular pressure in open–angle glaucoma. Villumsen J, et al. **Br J Ophthalmol** 1989 Dec;73(12):975–9

Evaluation of ZK110841 and AH6809, an agonist and an antagonist of prostaglandin DP–receptors on human platelets, with a PGD2–responsive cell line from bovine embryonic trachea. Ito S, et al. **Br J Pharmacol** 1990 Jan; 99(1):13–4

Extension of short cycles in postpartum beef cows by intrauterine treatment with catecholestradiol. Nephew KP, et al. **Domest Anim Endocrinol** 1989 Oct;6(4):363–70

Studies on prostaglandin and luteolysis in the pseudopregnant rabbit. Carlson JC, et al. **Endocr Res** 1990;16(2):193–204

Umbilical artery Doppler flow velocity waveforms and maternal prostaglandin E2 and F2 alpha metabolite concentrations during cervical ripening with prostaglandin E2. Fairlie FM, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Oct;37(1):7–13

The effect of prostaglandin F2 alpha on trabecular outflow facility in cynomolgus monkeys. Gabelt BT, et al. **Exp Eye Res** 1990 Jul;51(1):87–91

Prostaglandin F2 alpha increases uveoscleral outflow in the cynomolgus monkey. Gabelt BT, et al. **Exp Eye Res** 1989 Sep;49(3):389–402

Effect of uterine manipulation 35 days after parturition on plasma concentrations of 13, 14–dihydro–15–keto prostaglandin F2 alpha in multiparous and primiparous Brahman cows. Wann RA, et al. **J Anim Sci** 1990 May; 68(5):1389–94

Plasma concentrations of 15–keto–13,14–dihydro–PGF–2 alpha, oestrone sulphate, oestradiol–17 beta and progesterone in pregnant guinea–pigs treated with polychlorinated biphenyls. Lundkvist U, et al. **J Reprod Fertil** 1989 Sep;87(1):55–62

Effects of topically applied PGF2 alpha and its isopropylester on normal and glaucomatous human eyes. Alm A, et al. **Prog Clin Biol Res** 1989;312:447–58 (28 ref.)

Aqueous humor dynamics: how PGF2 alpha lowers intraocular pressure. Kaufman PL, et al. **Prog Clin Biol Res** 1989;312:387–416 (127 ref.)

The effects of ocular hypotensive doses of PGF2 alpha–isopropylester on anterior segment morphology. Lütjen–Drecoll E, et al. **Prog Clin Biol Res** 1989;312:437–46 (35 ref.)

The effect of prostaglandin F2 alpha–1–isopropylester (PGF2 alpha–IE) on uveoscleral outflow. Nilsson SF, et al. **Prog Clin Biol Res** 1989;312:429–36 (19 ref.)

ZK 110 841—a selective and potent prostaglandin D2 analogue. Thierauch KH, et al. **Prog Clin Biol Res** 1989; 301:597–601

Associations among progesterone, estradiol–17 beta, oxytocin and prostaglandin in cattle treated with hCG during diestrus to extend corpus luteum function. Howard HJ, et al. **Prostaglandins** 1990 Jul;40(1):51–70

Concentrations of 13, 14–dihydro–15–keto prostaglandin F2 alpha after pulsatile progesterone administration at the time of luteolysis of heifers. Jacobs AL, et al. **Prostaglandins** 1990 Jan;39(1):3–12

Relationship between the production capacity of ovarian 13,14–dihydro–prostaglandin F2–alpha and the process of ovulation in immature female rats pretreated with gonadotropin. Kogo H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):177–81

Effect of hCG on the 13,14–dihydro–prostaglandin F2–alpha forming capacity of the ovary after ovulation in PMSG–primed immature female rats. Kogo H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Oct; 38(1):55–9

Effects of prostaglandin on the reproductive performance of dairy cows. Armstrong JD, et al. **Vet Rec** 1989 Dec 9;125(24):597–600

Treatment of pyometra in the bitch [letter] Rimer D. **Vet Rec** 1990 Feb 17;126(7):175

[Termination of early pregnancy using RU 486 alone or in combination with prostaglandin. The RU 486 Collaboration Group] **Chung Hua Fu Chan Ko Tsa Chih** 1990 Jan;

25(1):31–4, 62 (Eng. Abstr.) (Chi)
[Changes in 13,14–dihydro–15–keto–prostaglandin F2 alpha and dehydroepiandrosterone–sulfate (DHA–S) levels in amniotic fluid and maternal peripheral venous blood in late pregnancy and during labor] Moriyama S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Jul;41(7):867–74 (Eng. Abstr.) (Jpn)
[Interaction of quinidine, lidocaine, tricaine and pyromecaine with heparin] Ushkalova EA, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):43–5 (Eng. Abstr.) (Rus)
[The action of 15–fluorine derivatives of prostaglandins E2 and F2 alpha on isolated smooth muscles] Nigamatov IM, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):831–7 (Eng. Abstr.) (Rus)

ANALYSIS

Rapid increase of prostaglandin F2–alpha in neurons after subarachnoid hemorrhage in rats: an immunohistochemical study. Ogawa H, et al. **Acta Neuropathol (Berl)** 1989; 78(6):621–8
Changes in amniotic fluid concentrations of prostaglandins E2 and F2 alpha in women with preterm labor. Mazor M, et al. **Isr J Med Sci** 1990 Aug;26(8):425–8
Prostaglandins in the plasma and stool of children with rotavirus gastroenteritis. Yamashiro Y, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):322–7
[The level of prostaglandins and cyclic nucleotides in the lung tissue during early stage of smoke inhalation injury] Song YN. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Sep;2(3):223–6, 238 (Eng. Abstr.) (Chi)

BIOSYNTHESIS

Sensitization of alveolar macrophages to lipopolysaccharide–induced prostaglandin synthesis by exogenous prostaglandins. Tanamoto K, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):526–32
Influence of naproxen on uterine PGF2 alpha and the antifertility effect of IUDs in rats. Tang DC, et al. **Eicosanoids** 1989;2(1):47–9
Prostaglandin F2 alpha synthesis and metabolism by luteal phase endometrium in vitro. Brumsted JR, et al. **Fertil Steril** 1989 Nov;52(5):769–73
In vitro synthesis of prostaglandin E and F2 alpha by pig endometrium in the presence of estradiol, catechol estrogen and ascorbic acid. Rosenkrans CF Jr, et al. **J Anim Sci** 1990 Feb;68(2):435–43
The effect of inhibitors of prostaglandin formation on contraction of the rat, rabbit and human vas deferens. Patra PB, et al. **J Auton Pharmacol** 1990 Feb;10(1):55–63
The induction of specific rat liver glutathione S–transferase subunits under inadequate selenium nutrition causes an increase in prostaglandin F2 alpha formation. Chang M, et al. **J Biol Chem** 1990 Apr 5;265(10):5418–23
9 alpha,11 beta–prostaglandin F2 formation in various bovine tissues. Different isozymes of prostaglandin D2 11–ketoreductase, contribution of prostaglandin F synthetase and its cellular localization. Urade Y, et al. **J Biol Chem** 1990 Jul 15;265(20):12029–35
Effects of changes in sodium balance on prostaglandin synthesis and prostaglandin E2 9–ketoreductase activity in the rat kidney. Rathaus M, et al. **J Clin Chem Clin Biochem** 1990 Apr;28(4):199–202
Effect of flunixin meglumine on prostaglandin F2 alpha synthesis and metabolism in the pig. Odensvik K, et al. **J Vet Pharmacol Ther** 1989 Sep;12(3):307–11
Enzymatic formation of prostaglandin F2 alpha in human brain. Hayashi H, et al. **Neurochem Res** 1990 Apr; 15(4):385–92
Comparison of the inhibitory effect of polyunsaturated fatty acids on prostaglandin synthesis. II. Fibroblasts. elAttar TM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Feb;39(2):135–9
Is the inhibitory effect of progesterone on endometrial prostaglandin F2 alpha production due to an inhibition of protein synthesis? Riley SC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Mar; 39(3):189–96
Bacterial endotoxin and tumor necrosis factor stimulate prostaglandin production by human decidua. Romero R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):183–6

BLOOD

Noncyclooxygenase oxidative formation of a series of novel prostaglandins: analytical ramifications for measurement of eicosanoids [published erratum appears in Anal Biochem 1990 Apr;186(1):184–5] Morrow JD, et al. **Anal Biochem** 1990 Jan;184(1):1–10
Increases in plasma concentrations of a prostaglandin metabolite in acute airway obstruction [letter; comment] Amirav I. **Arch Dis Child** 1990 May;65(5):559–60 Comment on: Arch Dis Child 1989 Aug;64(8):1112–7.
Prostaglandins: PGF2 alpha, PGE2, 6–keto–PGF1 alpha and TXB2 serum levels in dysmenorrheic adolescents before, during and after treatment with oral contraceptives. Creatsas G, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Sep;36(3):292–8
Prostaglandin F2 alpha in leprosy—a preliminary study. Dhawan V, et al. **Indian J Lepr** 1990 Jan–Mar;62(1):45–9
Interrelation among endogenous catecholamines, prostaglandin F2 alpha and prolactin in last trimester and during parturition. Yamamoto K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep; 41(9):1479–86
Prostanoids during acute sarcocystiosis in growing pigs. Daugschies A, et al. **Parasitol Res** 1989;76(2):115–8
[Plasma prostaglandins E, E2 and F2a in nasopharyngeal carcinoma (NPC)] Chen BS. **Chung Hua Chung Liu Tsa Chih** 1989 Jul;11(4):248–50 (Eng. Abstr.) (Chi)
[Effect of 1–hour administration of dimethyl sulfoxide on the levels of prostaglandins, products of lipid peroxidation and beta–glucuronidase activity in the blood of patients with rheumatoid arthritis] Mu'diiarov PIa, et al. **Revmatologiia (Mosk)** 1989 Jul–Sep;(3):6–10 (Eng. Abstr.) (Rus)
[The pathogenetic significance of prostaglandins in food poisoning and therapy questions] Iushchuk ND, et al. **Ter Arkh** 1989;61(8):71–4 (Rus)
[Changes in the phospholipid and prostaglandin levels in chronic diseases of the biliary tract] Garnik TP, et al. **Vrach Delo** 1989 Dec;(12):66–8 (Eng. Abstr.) (Rus)
[The prostaglandin content of the blood plasma in chronic gastritis patients] Vizir AD, et al. **Vrach Delo** 1990 Feb; (2):46–8 (Eng. Abstr.) (Rus)
[PGE and PGF2–alpha levels in the umbilical cord vessels. Relationship to acid–base equilibrium in the umbilical artery] del Moral García T, et al. **An Esp Pediatr** 1989 Dec;31(6):564–6 (Eng. Abstr.) (Spa)

DIAGNOSTIC USE

Effect of salbutamol, ipratropium bromide and cromolyn sodium on prostaglandin F2 alpha–induced bronchospasm. Georgopoulos D, et al. **Chest** 1989 Oct;96(4):809–14

METABOLISM

5–Hydroxyeicosatetraenoic acid, leukotriene C4, and prostaglandin F2 alpha in amniotic fluid before and during term and preterm labor. Walsh SW. **Am J Obstet Gynecol** 1989 Nov;161(5):1352–60
PGF2 alpha and PGE2 binding to rat myometrium during gestation, parturition, and postpartum. Molnár M, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E740–7
Release of cyclooxygenase products from primary cultures of tracheal epithelia of dog and human. Widdicombe JH, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):L361–5
Effect of surgical manipulation, placental fluid, and flunixin meglumine on fetal viability and prostaglandin F2 alpha release in the gravid uterus of mares. Pascoe DR, et al. **Am J Vet Res** 1989 Sep;50(9):1505–11
Multiple classes of prostaglandin F2 alpha binding sites in subpopulations of ovine luteal cells. Balapure AK, et al. **Biol Reprod** 1989 Sep;41(3):385–92
Control of bovine uterine prostaglandin F2 alpha release in vitro. LaFrance M, et al. **Biol Reprod** 1990 Feb; 42(2):288–93
In vivo levels of prostaglandin F2 alpha, E2 and prostacyclin in the corpus luteum of pregnant and pseudopregnant rats. Olofsson J, et al. **Biol Reprod** 1990 May–Jun; 42(5–6):792–800
Oxytocin–induced release of prostaglandin F2 alpha in postpartum beef cows: comparison of short versus normal luteal phases. Zollers WG Jr, et al. **Biol Reprod** 1989 Aug; 41(2):262–7
Cysteinyl–leukotriene production during limbic seizures triggered by kainic acid. Simmet T, et al. **Brain Res** 1990 May 7;515(1–2):79–86
Metabolism of prostaglandin F2 alpha in sheep. Dimov V, et al. **Drug Metab Dispos** 1990 Jan–Feb;18(1):107–14
Effects of epostane on ovarian levels of progesterone, 17 beta–estradiol, prostaglandin E2, and prostaglandin F2 alpha during ovulation in the gonadotropin–primed immature rat. Espey LL, et al. **Endocrinology** 1990 Jul; 127(1):259–63
Effects of aspirin on gastric mucosal prostaglandin E2 and F2 alpha content and on gastric mucosal injury in humans receiving fish oil or olive oil. Faust TW, et al. **Gastroenterology** 1990 Mar;98(3):586–91
Prostaglandin E2 and F2 alpha levels in the duodenal and antral mucosa of non–ulcer dyspeptic and duodenal ulcer patients. Parodi MC, et al. **Hepatogastroenterology** 1990 Apr;37(2):208–11
Lack of prostaglandin F2 alpha metabolism by human ocular tissues. Cheng–Bennett A, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1389–93
Prognostic value of prostaglandin F2 alpha concentrations in breast carcinoma. van Dam PA, et al. **J Clin Pathol** 1989 Oct;42(10):1046–8
Immunohistochemical localization of prostaglandin F2 alpha in reperfused gerbil brain. Nakagomi T, et al. **Neurol Med Chir (Tokyo)** 1990 Apr;30(4):223–8
Prostaglandin F2 alpha binding to bovine ocular and synthetic melanins in vitro. Aula P, et al. **Pharmacol Toxicol** 1989 Aug;65(2):100–3
Prostaglandin E2 and F2 alpha in mid–pregnant rat uterus and at parturition. Gu W, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):27–30
[3H]prostaglandin uptake in vivo by rabbit uterine tissues and blastocysts. Jones MA, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Apr; 39(4):267–75
Transpulmonary prostaglandin F2 alpha metabolism in sheep: an in vivo model. Kong DL, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Dec; 38(3):195–202
[3H]prostaglandin F2 alpha membrane binding reexamined. Orlicky DJ. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jul;40(3):181–9
Endotoxin concentrations in the blood following intravenous injection and effect on prostaglandin F2 alpha release, calcium and bile acids in goats. Aiumlamai S, et al. **Res Vet Sci** 1990 Mar;48(2):190–5
The role of prostaglandins in the para–aminoclonidine–induced reduction of intraocular pressure. Wang RF, et al. **Trans Am Ophthalmol Soc** 1990; 87:94–104; discussion 104–6
[The role of prostaglandins in pathogenetic mechanisms of the respiratory distress syndrome in premature newborn infants] Nabukhotnyi TK, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):65–7 (Rus)

PHARMACOKINETICS

Counter current transfer in the female adnex. Einer–Jensen N, et al. **Acta Physiol Pol** 1989 Jan–Feb;40(1):3–11
Counter current transfer and back transport of 3H–PGF2 alpha in the cow's broad ligament vasculature ipsilateral and contralateral to the corpus luteum. Koziorowski M, et al. **Acta Physiol Pol** 1989 Jan–Feb;40(1):96–103
Counter current transfer of PGF2 alpha in the mesometrial vessels as a mechanism for prevention of luteal regression in early pregnancy. Krzymowski T, et al. **Acta Physiol Pol** 1989 Jan–Feb;40(1):23–34 (14 ref.)

PHARMACOLOGY

Cholinergic and C–fibre mediated mechanisms in the stimulation of mucociliary activity induced by prostaglandins and histamine. Dolata J, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):456–63
The effects of prostaglandins E1, E2 and F2 alpha on mucociliary activity in the rabbit maxillary sinus. Dolata J, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct; 108(3–4):290–7
Effect of atropine, PGF2 alpha and cimetidine on the beta–carotene induced cytoprotection in ethanol–treated rats. Garamszegi M, et al. **Acta Physiol Hung** 1989; 73(2–3):221–4
Effects of arachidonic acid and prostaglandin F2 alpha in isolated rat lungs. Ruttner E, et al. **Acta Physiol Hung** 1990; 75(1):53–60
Inhibition by amlodipine of activity evoked in isolated human coronary arteries by endothelin, prostaglandin F2 alpha and depolarization. Godfraind T, et al. **Am J Cardiol** 1989 Nov 7;64(17):58I–64I
Effects of PGF2 alpha and of indomethacin on rabbit small and large intestinal motility in vivo. Burakoff R, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G231–7
Role of calcium in U 46619 and PGF2 alpha pulmonary vasoconstriction in rat lungs. Santoian EC, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H2001–5
Effect of administration of prostaglandin F2 alpha on embryo recovery from the uterus on day 5 after ovulation in mares. Hinrichs K, et al. **Am J Vet Res** 1990 Mar;51(3):451–3
Contrastive effects of prostaglandin F2 alpha on normal cardiac rhythm and ouabain–induced cardiac arrhythmias in cats: possible neural basis. Rao TS, et al. **Arch Int Pharmacodyn Ther** 1989 Nov–Dec;302:128–44
Role of extracellular calcium in the metabolic and hemodynamic actions of sympathetic nerve stimulation, noradrenaline and prostaglandin F2 alpha in perfused rat liver. Differential inhibition by nifedipine and verapamil. Athari A, et al. **Biochem Int** 1990;20(1):13–23
Desensitization of prostaglandin F2 alpha–stimulated inositol phosphate generation in NIH–3T3 fibroblasts transformed by overexpression of normal c–Ha–ras–1, c–Ki–ras–2 and c–N–ras genes. Black FM, et al. **Biochem J** 1990 May 1; 267(3):809–13
Activation of inositol phospholipid breakdown by prostaglandin F2 alpha without any stimulation of proliferation in quiescent NIH–3T3 fibroblasts. Black FM, et al. **Biochem J** 1990 Mar 15;266(3):661–7
Changes in serum lipids in rats treated with PGF2 alpha. Dionyssiou–Asteriou A, et al. **Biochem Med Metab Biol** 1990 Aug;44(1):13–7
Behavioral and endocrine responses of sows to prostaglandin F2 alpha and cloprostenol. Widowski TM, et al. **Biol Reprod** 1990 Aug;43(2):290–7
Differential contractile responses of pressurized porcine coronary resistance–sized and conductance coronary arteries to acetylcholine, histamine and prostaglandin F2 alpha. Nakayama K, et al. **Blood Vessels** 1989;26(4):235–45
Short–term desensitization of prostaglandin F2 alpha receptors increases cyclic AMP formation and reduces inositol phosphates accumulation and contraction in the bovine iris sphincter. Yousufzai SY, et al. **Curr Eye Res** 1989 Nov;8(11):1211–20
Nuclear changes in ovine luteal cells in response to PGF2 alpha. Sawyer HR, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):229–37
Studies on prostaglandin and luteolysis in the pseudopregnant rabbit. Carlson JC, et al. **Endocr Res** 1990;16(2):193–204
The antigonadotropic actions of prostaglandin F2 alpha and

phorbol ester are mediated by separate processes in rat luteal cells. Musicki B, et al. **Endocrinology** 1990 Mar; 126(3):1388–95

Effects of prostaglandin F2 alpha on bone formation and resorption in cultured neonatal mouse calvariae: role of prostaglandin E2 production. Raisz LG, et al. **Endocrinology** 1990 Feb;126(2):1076–9

Participation of both intracellular free Ca2+ and protein kinase C in tonic vasoconstriction induced by prostaglandin F2 alpha. Morimoto S, et al. **Eur J Pharmacol** 1990 Jun 12;188(6):369–78

Prostaglandin F2 alpha stimulates vasopressin and oxytocin release from isolated rat neurointermediate lobe. Bojanowska E, et al. **Exp Clin Endocrinol** 1989;94(3):375–82

Stimulation of glycoprotein and protein synthesis in isolated pig gastric mucosal cells by prostaglandins. Heim HK, et al. **Gut** 1990 Apr;31(4):412–6

Anuran mating calling circuits: inhibition by prostaglandin. Schmidt RS, et al. **Horm Behav** 1989 Sep;23(3):361–7

Studies on the ocular pharmacology of prostaglandin D2. Woodward DF, et al. **Invest Ophthalmol Vis Sci** 1990 Jan; 31(1):138–46

Synchronization of estrus with melengestrol acetate and prostaglandin F2 alpha in beef and dairy heifers. Chenault JR, et al. **J Anim Sci** 1990 Feb;68(2):296–303

Ovarian responses to intramuscular or intravenous administration of prostaglandin F2 alpha in control and FSH-treated beef heifers. Maurer RR, et al. **J Anim Sci** 1989 Aug;67(8):2075–80

Behavioral responses of periparturient sows and juvenile pigs to prostaglandin F2 alpha. Widowski TM, et al. **J Anim Sci** 1989 Dec;67(12):3266–76

Chronic regulation of ovarian oxytocin and progesterone release by prostaglandins: opposite effects in bovine granulosa and early luteal cells. McArdle CA. **J Endocrinol** 1990 Aug;126(2):245–53

Effects of prostaglandin F2 alpha and other potential secretagogues on oxytocin secretion and second messenger metabolism in the ovine corpus luteum in vitro. McCann TJ, et al. **J Endocrinol** 1990 Jul;126(1):89–98

Late-phase accumulation of inositol phosphates stimulated by prostaglandins D2 and F2 alpha in neuroblastoma x glioma hybrid NG108–15 cells. Hatanaka M, et al. **J Neurochem** 1989 Nov;53(5):1450–5

Prostaglandin F2 alpha inhibits acidification in H(+)-secreting epithelia. Page RD, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):929–33

Effects of prostaglandin and prolactin on luteolysis and parturient behaviour in the non-pregnant tammar, Macropus eugenii. Hinds LA, et al. **J Reprod Fertil** 1990 Jan;88(1):323–33

Regulation of steroidogenesis and cholesterol synthesis by prostaglandin F-2 alpha and lipoproteins in bovine luteal cells. Pate JL, et al. **J Reprod Fertil** 1989 Nov;87(2):439–46

Control of parturient behaviour by prostaglandin F-2 alpha in the tammar wallaby (Macropus eugenii). Shaw G. **J Reprod Fertil** 1990 Jan;88(1):335–42

In-vivo effect of prostaglandin F-2 alpha treatment on secretory granules in the corpus luteum of the late pregnant cow. Fields MJ, et al. **J Reprod Fertil Suppl** 1989;37:215–23

Termination of pregnancy in bitches by administration of prostaglandin F-2 alpha. Lein DH, et al. **J Reprod Fertil Suppl** 1989;39:231–40 (40 ref.)

Effect of human chorionic gonadotropin and prostaglandin F2a on progesterone production by human luteal cells. Khan-Dawood FS, et al. **J Steroid Biochem** 1989 Nov; 33(5):941–7

Prostaglandins and rat glomerular mesangial cell proliferation. Menè P, et al. **Kidney Int** 1990 May; 37(5):1256–62

Evidence for thromboxane receptor mediated contraction of guinea-pig and human airways in vitro by prostaglandin (PG) D2, 9 alpha,11 beta-PGF2 and PGF2 alpha. Featherstone RL, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 May; 341(5):439–43

Two phases of the prostaglandin F2 alpha-induced contraction in guinea-pig taenia coli involve different Ca2+ channels. Usune S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Oct; 340(4):437–41

Stimulus-specific patterns of myosin light chain phosphorylation in smooth muscle of rabbit thoracic artery. Seto M, et al. **Pflugers Arch** 1990 Jan;415(4):484–9

Effects of alpha-adrenoceptor active drugs, prostaglandin F2 alpha and vasopressin on cystic and hepatic arteries of pig and man. Vagianos C, et al. **Pharmacol Toxicol** 1990 Feb; 66(2):77–82

The effect of prostaglandins E2 and F2 alpha on carotid blood flow in rats with renovascular hypertension. Vacek L, et al. **Physiol Bohemoslov** 1989;38(6):481–7

Control of luteal relaxin release by prostaglandin F2 alpha: differences in the sow cycle and pregnancy. Bagnell CA, et al. **Proc Soc Exp Biol Med** 1990 Jun;194(2):125–30

Arachidonic acid and its metabolites increase cytosolic free calcium in bovine luteal cells. Alila HW, et al. **Prostaglandins** 1990 May;39(5):481–96

Prostaglandins can modify gamma-radiation and chemical induced cytotoxicity and genetic damage in vitro and in vivo. Das UN, et al. **Prostaglandins** 1989 Dec;38(6):689–716

PGF2 alpha and breathing pattern in newborn pigs. Clement MG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jun;40(2):103–7

Serotonin—a possible transmitter for the gastric adaptive relaxation. Interaction with histamine and prostaglandin F2 alpha on pressure responses in the isolated stomach. Bugge W, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1079–83

Induction of parturition in pigs: short term effects of prostaglandin F2 alpha on chronically catheterised fetuses at term. Randall GC. **Vet Rec** 1990 Jan 20;126(3):61–3

[Suppression by luteectomy of the simultaneous increase in intramammary pressure and blood oxytocin levels induced by the injection of PGF2-alpha in ewes] Labussière J, et al. **Reprod Nutr Dev** 1990;30(1):91–6 (Eng. Abstr.) **(Fre)**

[Effects of natural and synthetic PGF2 alpha preparations on the uterine contractility of cattle] Stolla R, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jun 1; 103(6):198–202 (Eng. Abstr.) **(Ger)**

[Effects of prostaglandins E2 and F2 alpha on the hypothalamo-hypophyseal-adrenal system and thyroid function in mice with Lewis lung carcinoma] Grinzhevskaia SN, et al. **Eksp Onkol** 1990;12(1):47–50 (Eng. Abstr.) **(Rus)**

[An 11-fluoroderivative of prostaglandin F2alpha—a stable thromboxano-mimetic] Nigamatov IM, et al. **Farmakol Toksikol** 1989 Jul-Aug;52(4):40–3 (Eng. Abstr.) **(Rus)**

[Comparison of bronchial reactivity to prostaglandin F2 alpha and histamine] Ninković M, et al. **Vojnosanit Pregl** 1989 Jul-Aug;46(4):253–5 (Eng. Abstr.) **(Scr)**

PHYSIOLOGY

Luteotropic and luteolytic responsiveness of ovine luteal cells in long-term culture. Kong W, et al. **Biol Reprod** 1989 Oct;41(4):707–14

Regulation of the corpus luteum by protein kinase C. II. Inhibition of lipoprotein-stimulated steroidogenesis by prostaglandin F2 alpha. Wiltbank MC, et al. **Biol Reprod** 1990 Feb;42(2):239–45

Hormonal regulation of free intracellular calcium concentrations in small and large ovine luteal cells. Wiltbank MC, et al. **Biol Reprod** 1989 Oct;41(4):771–8

Role of liquid membrane phenomenon in the biological actions of prostaglandins: studies on prostaglandin E1 and prostaglandin F2 alpha. Nagappa AN, et al. **Indian J Biochem Biophys** 1989 Jun;26(3):172–7

Chemical structural requirement in gingerol derivatives for potentiation of prostaglandin F2 alpha-induced contraction in isolated mesenteric veins of mice. Kimura I, et al. **J Pharmacobiodyn** 1989 Apr;12(4):220–7

Effect of active immunization of pre-partum and post-partum cows against prostaglandin F-2 alpha on lifespan and progesterone secretion of short-lived corpora lutea. Copelin JP, et al. **J Reprod Fertil** 1989 Sep;87(1):199–207

Mechanism of the luteolytic action of prostaglandin F-2 alpha in the rat. Lahav M, et al. **J Reprod Fertil Suppl** 1989;37:233–40

Role of PGF2 alpha in the superior mesenteric artery-induced shock. Mózes T, et al. **J Surg Res** 1989 Dec;47(6):476–81

SECRETION

Luteal oxytocin: characteristics and control of synchronous episodes of oxytocin and PGF2 alpha secretion at luteolysis in ruminants. Flint AP, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):111–24 (87 ref.)

Arginine vasopressin stimulation of prostaglandin F2 alpha release in heifers during the estrous cycle. Lafrance M, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):173–80

Relationship between uterine secretion of prostaglandin F2 alpha induced by oxytocin and endogenous concentrations of estradiol and progesterone at three stages of the bovine estrous cycle. Silvia WJ, et al. **J Anim Sci** 1989 Sep; 67(9):2347–53

Increased and intermittent prostaglandin release from amnion detected by a new superfusion technique for full thickness fetal membrane. Reddi K, et al. **Prostaglandins** 1990 Jun; 39(6):601–10

Effect of continuous infusion of oxytocin on prostaglandin F2 alpha secretion and luteolysis in the cyclic ewe. Sheldrick EL, et al. **Reprod Fertil Dev** 1990;2(1):89–99

THERAPEUTIC USE

Critical comments on the treatment of tubal pregnancy with prostaglandins [letter] Dietl J, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):707–8

First successful intrauterine pregnancy after treatment of tubal pregnancy with prostaglandin F2 alpha. Egarter C, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):904

Conservative treatment of ovarian pregnancy by local prostaglandin F2 alpha injection [letter] Koike H, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):696

Dinoprost in hemorrhagic cystitis. Gericke KR, et al. **DICP** 1989 Nov;23(11):885–6

Treatment of tubal pregnancy by laparoscope-guided injection of prostaglandin F2 alpha. Lindblom B, et al. **Fertil Steril** 1990 Sep;54(3):404–8

A retrospective study of 40 cases of canine pyometra-metritis treated with prostaglandin F-2 alpha and broad-spectrum antibacterial drugs. Gilbert RO, et al. **J Reprod Fertil Suppl** 1989;39:225–9

Prostaglandins for enhancing detrusor function after surgery for stress incontinence in women. Koonings PP, et al. **J Reprod Med** 1990 Jan;35(1):1–5

Conservative treatment of ectopic pregnancy with local injection of hyperosmolar glucose solution or prostaglandin-F2 alpha: a prospective randomised study. Lang PF, et al. **Lancet** 1990 Jul 14;336(8707):78–81

Hyperosmolar glucose solution or prostaglandin-F2 alpha for ectopic pregnancy [letter] Thompson GR. **Lancet** 1990 Sep 15;336(8716):685

URINE

Urinary prostaglandin F2 alpha excretion is not pH-dependent in the conscious rat: implications for the urinary prostaglandin E2/prostaglandin F2 alpha ratio. Haylor J, et al. **Clin Sci** 1990 Feb;78(2):181–4

Simultaneous determination of the primary prostanoids prostaglandin E2, prostaglandin F2 alpha and 6-oxoprostaglandin F1 alpha by immunoaffinity chromatography in combination with negative ion chemical ionization gas chromatography-tandem mass spectrometry. Mackert G, et al. **J Chromatogr** 1989 Sep 29;494:13–22

[Urinary prostaglandin levels in patients with arterial hypertension with benign and malignant course] Runikhin AIu, et al. **Kardiologiia** 1990 Jan;30(1):12–7 (Eng. Abstr.) **(Rus)**

[Effect of furosemide on the renal prostaglandin system in liver cirrhosis with ascites] Mansurov KhKh, et al. **Klin Med (Mosk)** 1989 Oct;67(10):78–81 (Eng. Abstr.) **(Rus)**

DINOPROSTONE

The influence of histamine and PGE2-induced hyperaemia and oedema on respiratory metabolism in normal human forearm skin. Carnochan FM, et al. **Agents Actions** 1990 Mar;29(3–4):292–8

Comparative evaluation of oral prostaglandin E2 & intravenous oxytocin for induction of labour. Kalia M, et al. **Indian J Med Res** 1989 Dec;90:453–8

Outpatient use of prostaglandin gel for ripening of the cervix and induction of labor. Smith MA, et al. **J Fam Pract** 1990 Jun;30(6):656–62; discussion 662–4

ADMINISTRATION & DOSAGE

Cervical connective tissue in relation to pregnancy, labour, and treatment with prostaglandin E2. Uldbjerg N. **Acta Obstet Gynecol Scand Suppl** 1989;148:1–40

Double-blind comparison of intravaginal prostaglandin E2 gel and "chip" for preinduction cervical ripening. Smith CV, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):845–7

Topical prostaglandin E2 gel for cervical ripening and closure of the ductus arteriosus in the newborn. Sung RY, et al. **Arch Dis Child** 1990 Jul;65(7 Spec No):703–4

Comparison of the Foley catheter and dinoprostone pessary for cervical preparation before second trimester abortion. Hackett GA, et al. **Br J Obstet Gynaecol** 1989 Dec; 96(12):1432–4

2308 second trimester terminations using extra-amniotic or intra-amniotic prostaglandin E2: an analysis of efficacy and complications. Hill NC, et al. **Br J Obstet Gynaecol** 1989 Dec;96(12):1424–31

A prospective comparative study on the use of prostaglandin E2 gel (2 mg) and prostaglandin E2 tablet (3 mg) for the induction of labour in primigravid women with unfavorable cervices. Mahmood TA. **Eur J Obstet Gynecol Reprod Biol** 1989 Nov;33(2):169–75

Induction of labor by oral prostaglandin E2 in protracted pregnancy. Ismail AA, et al. **Int J Gynaecol Obstet** 1989 Aug;29(4):325–8

Prostaglandin and induction of labor [letter] **J Fam Pract** 1990 Sep;31(3):236–7

Outpatient use of prostaglandin gel for ripening of the cervix and induction of labor. Smith MA, et al. **J Fam Pract** 1990 Jun;30(6):656–62; discussion 662–4

Intracervical prostaglandin in postdate pregnancy. A randomized trial. Buttino LT Jr, et al. **J Reprod Med** 1990 Feb;35(2):155–8

Cervical ripening. A retrospective experience with prostaglandin E2 "chips". Smith CV, et al. **J Reprod Med** 1990 Apr;35(4):388–90

Controlled-release prostaglandin E2 pessary and cervical ripening [letter] **Lancet** 1990 Sep 1;336(8714):562

Difficulties with controlled release prostaglandin E2 pessaries [letter] **Lancet** 1990 Jul 14;336(8707):119

Controlled release prostaglandin E2 pessaries [letter] Baravilala WR, et al. **Lancet** 1990 Aug 18;336(8712):437

The concurrent in vitro and in vivo release of PGE2 from a controlled-release hydrogel polymer pessary for cervical ripening. Taylor AV, et al. **Prostaglandins** 1990 Jul; 40(1):89–98

Comparative study of a two dose schedule of PGE2 3 mg pessary and 1700 micrograms film for induction of labour in nulliparae with poor cervical score. Arulkumaran S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Oct; 38(1):37–41

A randomized double blind study of a new ready-for use prostaglandin gel (Org 2436) for cervical ripening prior to first trimester pregnancy termination. Osmers R, et al. **Zentralbl Gynakol** 1990;112(9):545–54

[Labor induction using extra-amniotic administration of PGE2] Roztočil A, et al. **Cesk Gynekol** 1990 Apr;

55(3):161–7 (Eng. Abstr.) (Cze)
[Treatment of severe postpartum atony with prostaglandin] Høgdall CK, et al. **Ugeskr Laeger** 1989 Sep 18; 151(38):2410–3 (22 ref.) (Eng. Abstr.) (Dan)
[Artificial induction of labor at term for medical reasons. Comparison of 2 technics for labor induction, oxytocin + early artificial rupture of the membranes versus prostaglandin E2 vaginal gel. Open randomized controlled study] Melchior J, et al. **Rev Fr Gynecol Obstet** 1989 Nov; 84(11):747–52 (Eng. Abstr.) (Fre)
[A new method of treating tubal pregnancy using prostaglandin F2a and E2] Egarter C, et al. **Arch Gynecol Obstet** 1989;245(1–4):413–5 (Eng. Abstr.) (Ger)
[Induction of labor with peroral tablets of PGE2–Prostin Upjohn] Roztočil A, et al. **Zentralbl Gynakol** 1989; 111(18):1253–60 (Eng. Abstr.) (Ger)
[Cervical ripening and induction of labor in term pregnancy using prostaglandin E2. Controlled clinical study comparing the intracervical and intravaginal routes] Zanini A, et al. **Ann Ostet Ginecol Med Perinat** 1989 Sep–Oct; 110(5):209–16 (Eng. Abstr.) (Ita)
[Prevention of hypotonic hemorrhage in the placental and early puerperal period with prostenone] Alipov VI, et al. **Akush Ginekol (Mosk)** 1990 Mar;(3):42–4 (Eng. Abstr.) (Rus)
[The combined and separate use of prostaglandin and adrenergic agents for the purpose of the experimental correction of uterine contractile activity] Korkhov VV, et al. **Akush Ginekol (Mosk)** 1989 Nov;(11):40–2 (Eng. Abstr.) (Rus)
[Changes in the characteristics of the lymphocyte beta 2–adrenoreceptors under the influence of prostaglandin E2 infusions in hypertension patients] Minchuna VP, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):54–8 (Eng. Abstr.) (Rus)
[Use of prostaglandin E2 in the complex treatment of acute renal failure] Glants RM, et al. **Gematol Transfuziol** 1990 May;35(5):35–8 (Rus)

ADVERSE EFFECTS

Myometrial activity after local application of prostaglandin E2 for cervical ripening and term labor induction. Granström L, et al. **Am J Obstet Gynecol** 1990 Mar; 162(3):691–4
Control of prostaglandin induced uterine hyperactivity with intravenous ritodrine. Fejgin M, et al. **Int J Gynaecol Obstet** 1989 Oct;30(2):177–8
Vaginal prostaglandin E2 and fatal amniotic fluid embolus [letter] Less A, et al. **JAMA** 1990 Jun 27;263(24):3259–60

ANALOGS & DERIVATIVES

Termination of early pregnancy with RU 486 (mifepristone) in combination with a prostaglandin analogue (sulprostone). Swahn ML, et al. **Acta Obstet Gynecol Scand** 1989; 68(4):293–300
An antiprogestin steroid and PGE2 for an early pregnancy termination. Hingorani V, et al. **Acta Obstet Gynecol Scand Suppl** 1989;149:25–9
Termination of early pregnancy using mifepristone in combination with prostaglandin analogs. Maria B, et al. **Acta Obstet Gynecol Scand Suppl** 1989;149:31–2
Induction of labour after fetal death: a randomized controlled trial of two prostaglandin regimens. Kanhai HH, et al. **Br J Obstet Gynaecol** 1989 Dec;96(12):1400–4
Treatment of reflux oesophagitis with trimoprostil. Smart HL, et al. **Digestion** 1989;44(1):52–6
Transdermal absorption and skin metabolism of viprostol, a synthetic prostaglandin E2 analogue. Nicolau G, et al. **Drug Metab Rev** 1989–90;21(3):401–25 (39 ref.)
Sulprostone and induction of labour [letter] Gödicke HD. **Eicosanoids** 1988;1(2):117
Umbilical artery Doppler flow velocity waveforms and maternal prostaglandin E2 and F2 alpha metabolite concentrations during cervical ripening with prostaglandin E2. Fairlie FM, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Oct;37(1):7–13
Photolabelling of the prostaglandin E2 receptor in cardiac sarcolemmal vesicles. Michalak M, et al. **FEBS Lett** 1990 Jun 4;265(1–2):117–20
Sulprostone, a synthetic PGE2 analogue in first trimester abortion. Clinical efficacy and influence on serum progesterone of different single doses. Larsson B, et al. **Gynecol Obstet Invest** 1990;29(1):10–2
Induction of labor in intrauterine fetal death with 16–phenoxy–prostaglandin–E2–methylsulfonylamide (sulprostone)—effects on uterine contractility, coagulation and kallikrein–kinin systems. Laudański T, et al. **Gynecol Obstet Invest** 1990;29(4):269–72
Voluntary interruption of pregnancy with mifepristone (RU 486) and a prostaglandin analogue. A large–scale French experience [see comments] Silvestre L, et al. **N Engl J Med** 1990 Mar 8;322(10):645–8 Comment in: N Engl J Med 1990 Mar 8;322(10):691–3.
Hypothalamic–pituitary–adrenal axis interaction with prostaglandins. Thorén M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):319–26
Biological activity and anti–prostaglandin effects of prostaglandin analogue, ent–11–epi–15–epi PGE2 methyl ester. Adaikan PG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jan; 39(1):91–4
Measurement of PGE2 as the methyl oxime by radioimmunoassay using a novel iodinated label. Kelly RW, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):187–91
Skin metabolism and transdermal absorption of viprostol, a synthetic PGE2 analog, in the rat: effect of vehicle. Nicolau G, et al. **Skin Pharmacol** 1989;2(1):22–9
[Comparative use of analogs of prostaglandin by intravenous or vaginal administration in termination of pregnancy] Poulain P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990; 19(2):223–7 (Eng. Abstr.) (Fre)
[Laparoscopic treatment of tubal pregnancy with prostaglandins] Deckardt R, et al. **Geburtshilfe Frauenheilkd** 1990 Jul;50(7):533–7 (Eng. Abstr.) (Ger)
[Treatment of in situ tubal pregnancy with prostaglandins] Husslein P. **Gynakol Rundsch** 1989;29 Suppl 2:294–8 (Ger)
[Use of sulprostone in nulliparous patients in voluntary interruption of pregnancy during the first trimester] Cipolla L, et al. **Minerva Ginecol** 1989 Jul;41(7):365–9 (Eng. Abstr.) (Ita)
[The use of sulprostone for voluntary interruption of gestation and in intrauterine fetal death] Di Meglio L, et al. **Minerva Ginecol** 1990 Mar;42(3):75–8 (Eng. Abstr.) (Ita)
[Sulprostone in the prevention and therapy of hemorrhage due to postpartal uterine atony] Vavala V, et al. **Minerva Med** 1990 Mar;81(3 Suppl):105–6 (Eng. Abstr.) (Ita)
[The action of 15–fluorine derivatives of prostaglandins E2 and F2 alpha on isolated smooth muscles] Nigamatov IM, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):831–7 (Eng. Abstr.) (Rus)
[The effect of the synthetic analog of prostaglandin E2 sulprostone on the adenylate cyclase system in decidual tissue of women] Goncharova VN, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):55–9 (Eng. Abstr.) (Rus)

ANALYSIS

Prostaglandin E2 levels in the membrane surrounding bulk and particulate polymethylmethacrylate in the rabbit tibia. A preliminary study. Goodman SB, et al. **Clin Orthop** 1990 Aug;(257):305–9
Peritoneal fluid leukotriene B4 and prostaglandin E2 in acute salpingitis. Heinonen PK, et al. **Gynecol Obstet Invest** 1990; 29(4):292–5
Increase in PGE2 and TXA2 in the saliva of common migraine patients. Action of calcium channel blockers. Tuca JO, et al. **Headache** 1989 Sep;29(8):498–501
Changes in amniotic fluid concentrations of prostaglandins E2 and F2 alpha in women with preterm labor. Mazor M, et al. **Isr J Med Sci** 1990 Aug;26(8):425–8
Identification of prostaglandin E2 and leukotriene B4 in the synovial fluid of painful, dysfunctional temporomandibular joints. Quinn JH, et al. **J Oral Maxillofac Surg** 1990 Sep; 48(9):968–71
Prostaglandins in the plasma and stool of children with rotavirus gastroenteritis. Yamashiro Y, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):322–7
Selective 5–lipoxygenase inhibition in ulcerative colitis. Laursen LS, et al. **Lancet** 1990 Mar 24;335(8691):683–5
Prostaglandin E2 and thromboxane B2 levels in rats subjected to pancreas transplantation. Hotter G, et al. **Prostaglandins** 1990 Jan;39(1):53–60
Leukotriene B4 and prostaglandin E2–like activity in synovial fluid in osteoarthritis. Sahap Atik O. **Prostaglandins Leukot Essent Fatty Acids** 1990 Apr; 39(4):253–4
[Demonstration of PGE2 by immunofluorescence in the wall of radicular cysts] Bons P, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(4):205–8 (Eng. Abstr.) (Fre)
[Correlation of immunoglobulins, the complement system and inflammatory mediators with reference to the pathogenesis of serous otitis media] Jeep S. **Laryngorhinootologie** 1990 Apr;69(4):201–7 (Eng. Abstr.) (Ger)
[State of the prostaglandin and cyclic nucleotide system in microwave resonance therapy of peptic ulcer] Zhukova TA, et al. **Klin Med (Mosk)** 1990 Mar;68(3):99–101 (Rus)

ANTAGONISTS & INHIBITORS

Inhibition of human periodontal prostaglandin E2 synthesis with selected agents. Offenbacher S, et al. **Agents Actions** 1990 Mar;29(3–4):232–8
Physiological antagonism between prostaglandin E2 and neuropeptide Y on thermoregulation in the dog. Inui A, et al. **Peptides** 1989 Jul–Aug;10(4):869–71
Biological activity and anti–prostaglandin effects of prostaglandin analogue, ent–11–epi–15–epi PGE2 methyl ester. Adaikan PG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jan; 39(1):91–4
Collagen synthesis and prostaglandin inhibition in burns. Salomon JC, et al. **Surg Forum** 1978;29:601–3

BIOSYNTHESIS

PGE2 synthesis in cultured renal papillary collecting tubule cells from young and aged spontaneously hypertensive rats. Sato M, et al. **Adv Exp Med Biol** 1989;247B:501–7
The biosynthesis and actions of prostaglandins in the renal collecting tubule and thick ascending limb. Smith WL, et al. **Adv Exp Med Biol** 1989;259:131–47 (81 ref.)
Regulation of prostanoids synthesis in human fibroblasts and human blood monocytes by interleukin–1, endotoxin, and glucocorticoids. Raz A, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:22–7
Decreased cell proliferation and PGE2 production by fibroblasts treated with a modified hexose sugar, amiprilose hydrochloride. Brinckerhoff CE. **Agents Actions** 1990 Jun; 30(3–4):322–8
Increased gastric PGE2 biosynthesis in cirrhotic patients with gastric vascular ectasia. Saperas E, et al. **Am J Gastroenterol** 1990 Feb;85(2):138–44
Production of prostaglandin E2 by human amnion in vitro in response to addition of media conditioned by microorganisms associated with chorioamnionitis and preterm labor. Lamont RF, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):819–25
Stimulation of prostaglandin synthesis by hyperoxia in perinatal rat lung cells. Lee DS, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):L95–101
Intranephron PGE2 production in stroke–prone spontaneously hypertensive rats. Takemoto F, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H987–93
Decreased arterial wall prostaglandin production in neonatal calves with severe chronic pulmonary hypertension. Badesch DB, et al. **Am J Respir Cell Mol Biol** 1989 Dec; 1(6):489–98
Tumor necrosis factor alpha and prostaglandin E2 production by human monocyte–derived macrophages infected with spotted fever group rickettsiae. Manor E, et al. **Ann N Y Acad Sci** 1990;590:157–67
Production of prostaglandin E2 induced by histamine by cloned rheumatoid synovial cells. Sasano M, et al. **Ann Rheum Dis** 1990 Jul;49(7):504–6
Platelet activating factor receptor antagonist improves survival and attenuates eicosanoid release in severe endotoxemia. Fletcher JR, et al. **Ann Surg** 1990 Mar; 211(3):312–6
Effects of arachidonic acid concentration on prostaglandin biosynthesis and feasibility of semibatch processes. Sada E, et al. **Appl Biochem Biotechnol** 1989 Dec;22(3):247–61
Elevated tumor necrosis factor alpha production concomitant to elevated prostaglandin E2 production by trauma patients' monocytes. Takayama TK, et al. **Arch Surg** 1990 Jan;125(1):29–35
The effect of immunotherapy on the in vitro productions of histamine, prostaglandin E2 and leukotriene C4 in asthmatic children. Wang JY, et al. **Asian Pac J Allergy Immunol** 1989 Dec;7(2):119–24
Mononuclear cells enhance prostaglandin E2 production of polymorphonuclear leukocytes via tumor necrosis factor alpha. Akama H, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):857–62
Independent induction of interleukin 6 and prostaglandin E2 by interleukin 1 in human articular chondrocytes. Bunning RA, et al. **Biochem Biophys Res Commun** 1990 Feb 14; 166(3):1163–70
The effects of recombinant human interleukin–1 beta on cellular proliferation and the production of prostaglandin E2, plasminogen activator, osteocalcin and alkaline phosphatase by osteoblast–like cells derived from human bone. Evans DB, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):208–16
Interleukin 1 and tumor necrosis factor potentiate angiotensin II– and calcium ionophore–stimulated prostaglandin E2 synthesis in rat renal mesangial cells. Pfeilschifter J, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):585–95
Sensitization of alveolar macrophages to lipopolysaccharide–induced prostaglandin synthesis by exogenous prostaglandins. Tanamoto K, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):526–32
In vitro effect of eicosapentaenoic and docosahexaenoic acids on prostaglandin E2 synthesis in a human lung carcinoma. de Antueno RJ, et al. **Biochem Int** 1989 Sep;19(3):489–96
Transforming growth factor beta 2 differentially modulates interleukin–1 beta– and tumour–necrosis–factor–alpha–stimulated phospholipase A2 and prostaglandin E2 synthesis in rat renal mesangial cells. Pfeilschifter J, et al. **Biochem J** 1990 Aug 15; 270(1):269–71
The ratio of macrophage prostaglandin and leukotriene synthesis is determined by the intracellular free calcium level. Kaever V, et al. **Biochem Pharmacol** 1990 Apr 15; 39(8):1313–9
Catecholamines inhibit leukotriene formation and decrease leukotriene/prostaglandin ratio. Parantainen J, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):961–6
Stimulation of human chondrocyte prostaglandin E2 production by recombinant human interleukin–1 and tumour necrosis factor. Campbell IK, et al. **Biochim Biophys Acta** 1990 Mar 9;1051(3):310–8
Amnion cell prostaglandin E2 stimulatory activity in chorion laeve–conditioned medium. Lundin–Schiller S, et al. **Biochim Biophys Acta** 1990 Jul 12;1053(2–3):151–5
Okadaic acid and dinophysistoxin–1, non–TPA–type tumor

promoters, stimulate prostaglandin E2 production in rat peritoneal macrophages. Ohuchi K, et al. **Biochim Biophys Acta** 1989 Sep 4;1013(1):86–91

Differential effect of diacylglycerols and phorbol ester on arachidonic acid metabolism in bone marrow–derived macrophages. Goppelt-Strübe M, et al. **Biol Chem Hoppe Seyler** 1990 Apr;371(4):369–74

Bradykinin stimulates prostaglandin E2 formation in isolated human osteoblast–like cells. Ljunggren O, et al. **Biosci Rep** 1990 Feb;10(1):121–6

The effect of nabumetone and its principal active metabolite on in vitro human gastric mucosal prostanoid synthesis and platelet function. Jeremy JY, et al. **Br J Rheumatol** 1990 Apr;29(2):116–9

Synthesis of prostaglandins I2 and E2 by the canine gallbladder in vitro: studies using a new incubation chamber. England DW, et al. **Br J Surg** 1990 Feb; 77(2):173–8

Correlation of tumor necrosis factor and prostaglandin E2 production of monocytes in bladder cancer patients. Ikemoto S, et al. **Cancer** 1989 Nov 15;64(10):2076–80

Regression mechanisms of mouse fibrosarcoma cells after in vitro exposure to quercetin: diminution of tumorigenicity with a corresponding decrease in the production of prostaglandin E2. Okada F, et al. **Cancer Immunol Immunother** 1990;31(6):358–64

Extracellular ATP stimulates polyphosphoinositide hydrolysis and prostaglandin synthesis in rat renal mesangial cells. Involvement of a pertussis toxin–sensitive guanine nucleotide binding protein and feedback inhibition by protein kinase C. Pfeilschifter J. **Cell Signal** 1990; 2(2):129–38

Is hydrochlorothiazide–induced hypocalciuria due to inhibition of prostaglandin E2 synthesis? Caló L, et al. **Clin Sci** 1990 Mar;78(3):321–5

Interleukin 1–induced prostaglandin E2 accumulation by isolated pancreatic islets. Hughes JH, et al. **Diabetes** 1989 Oct;38(10):1251–7

Interactions between antral peptides and prostaglandin biosynthesis in gastric acid regulation in man. Befrits R, et al. **Digestion** 1990;45(1):9–18

CP–66,248, a new anti–inflammatory agent, is a potent inhibitor of leukotriene B4 and prostanoid synthesis in human polymorphonuclear leucocytes in vitro. Moilanen E, et al. **Eicosanoids** 1988;1(1):35–9

Gestational profile of prostaglandin E2 synthesis by porcine placenta and fetal membranes. Rice GE, et al. **Eicosanoids** 1989;2(4):235–40

Prostaglandin levels in the rat resting gastric wall and enhancement of prostaglandin E2 generation after administration of mild hyperosmotic saline solution into the gastric lumen. Suzuki Y, et al. **Eicosanoids** 1990; 3(1):23–7

Evidence that adenosine 3',5'–monophosphate mediates hormonal stimulation of prostaglandin production in cultured mouse parietal bones. Klein–Nulend J, et al. **Endocrinology** 1990 Feb;126(2):1070–5

Effects of prostaglandin F2 alpha on bone formation and resorption in cultured neonatal mouse calvariae: role of prostaglandin E2 production. Raisz LG, et al. **Endocrinology** 1990 Feb;126(2):1076–9

Biphasic effects of transforming growth factor–beta on the production of osteoclast–like cells in mouse bone marrow cultures: the role of prostaglandins in the generation of these cells. Shinar DM, et al. **Endocrinology** 1990 Jun; 126(6):3153–8

Effects of atrial natriuretic factor on cyclic nucleotides, bone resorption, collagen and deoxyribonucleic acid synthesis, and prostaglandin E2 production in fetal rat bone cultures. Vargas SJ, et al. **Endocrinology** 1989 Nov;125(5):2527–31

Interdependence of tumor necrosis factor, prostaglandin E2, and protein synthesis in lipopolysaccharide–exposed rat Kupffer cells. Peters T, et al. **Eur J Biochem** 1990 Aug 17;191(3):583–9

Extracellular ATP stimulates poly(inositol phospholipid) hydrolysis and eicosanoid synthesis in mouse peritoneal macrophages in culture. Pfeilschifter J, et al. **Eur J Biochem** 1989 Dec 22;186(3):509–13

Diacylglycerol in the synergy of bradykinin and thrombin stimulation of prostaglandin synthesis. Burch RM. **Eur J Pharmacol** 1989 Sep 1;168(1):39–42

Estimation of the in vivo effect of cyclooxygenase inhibitors on prostaglandin E2 levels in mouse brain. Ferrari RA, et al. **Eur J Pharmacol** 1990 Apr 10;179(1–2):25–34

Endothelin stimulates the renal production of prostaglandin E2 and I2 in anesthetized dogs. Miura K, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):91–3

Interleukin 1– and tumor necrosis factor–stimulation of prostaglandin E2 synthesis in MDCK cells, and potentiation of this effect by cycloheximide. Leighton JD, et al. **FEBS Lett** 1990 Jan 1;259(2):289–92

Enhanced production of endogenous prostaglandin in obstructive jaundiced pancreas in dogs. Kuroda T, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1292–8

Rectal administration of nonsteroidal antiinflammatory drugs. Effect on rat gastric ulcerogenicity and prostaglandin E2 synthesis. Ligumsky M, et al. **Gastroenterology** 1990 May; 98(5 Pt 1):1245–9

Participation of thromboxane and other eicosanoid synthesis in the course of experimental inflammatory coliitis. Vilaseca J, et al. **Gastroenterology** 1990 Feb;98(2):269–77

Prostaglandin E2 and leukotriene B4 synthesis by peripheral leucocytes in alcoholics. Maxwell WJ, et al. **Gut** 1989 Sep; 30(9):1270–4

Decreased cytosolic calcium and prostaglandin synthesis in prehypertensive rats. Craven PA, et al. **Hypertension** 1990 Apr;15(4):388–96

Distribution of prostaglandins E2 and 6–keto–F1 alpha production in dog kidneys. Refoyo A, et al. **Hypertension** 1990 Feb;15(2 Suppl):I107–11

An interleukin 1 inhibitor affects both cell–associated interleukin 1–induced T cell proliferation and PGE2/collagenase production by human dermal fibroblasts and synovial cells. Seckinger P, et al. **Immunobiology** 1990 Jun;180(4–5):316–27

Augmented macrophage PGE2 production following exposure to dimethylnitrosamine in vivo: relevance to suppressed T cell responses. Myers MJ, et al. **Immunopharmacology** 1989 Sep–Oct;18(2):115–24

Inhibition of growth of Chlamydia trachomatis by tumor necrosis factor is accompanied by increased prostaglandin synthesis. Holtmann H, et al. **Infect Immun** 1990 Oct; 58(10):3168–72

Free arachidonic acid source for PGE2 and TXB2 production in guinea pig peritoneal macrophages exposed to insoluble glucan from Streptococcus mutans. Shibata Y, et al. **Int J Biochem** 1989;21(9):1043–5

The effect of inhibitors of prostaglandin formation on contraction of the rat, rabbit and human vas deferens. Patra PB, et al. **J Auton Pharmacol** 1990 Feb;10(1):55–63

Regulation of prostaglandin H synthase mRNA levels and prostaglandin biosynthesis by platelet–derived growth factor. Lin AH, et al. **J Biol Chem** 1989 Oct 15; 264(29):17379–83

Continuously applied compressive pressure induces bone resorption by a mechanism involving prostaglandin E2 synthesis. Imamura K, et al. **J Cell Physiol** 1990 Aug; 144(2):222–8

Effects of changes in sodium balance on prostaglandin synthesis and prostaglandin E2 9–ketoreductase activity in the rat kidney. Rathaus M, et al. **J Clin Chem Clin Biochem** 1990 Apr;28(4):199–202

Hormonal regulation of prostaglandin production by rhesus monkey endometrium. Eldering JA, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):596–604

Interleukin–1 (IL–1) regulation of human endometrial function: presence of IL–1 receptor correlates with IL–1–stimulated prostaglandin E2 production. Tabibzadeh S, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1000–6

Prostaglandin E2 production by dispersed canine fundic mucosal cells. Contribution of macrophages and endothelial cells as major sources. Chen MC, et al. **J Clin Invest** 1989 Nov;84(5):1536–49

Ambient C1– ions modify rat mesangial cell contraction by modulating cell inositol trisphosphate and Ca2+ via enhanced prostaglandin E2. Okuda T, et al. **J Clin Invest** 1989 Dec;84(6):1866–72

Increased prostaglandin synthesis in the unclipped kidney of one–kidney, one clip hypertensive rats. McGowan HM, et al. **J Hypertens** 1989 Nov;7(11):891–4

Obligatory action of polypeptide growth factors for the IL–1–mediated prostaglandin E2 production in fibroblasts. Potential role of growth factors in modulation of tissue response to IL–1. Chiou WJ, et al. **J Immunol** 1990 Oct 1;145(7):2155–60

Inhibition of phospholipase activity in human monocytes by IFN–gamma blocks endogenous prostaglandin E2–dependent collagenase production. Wahl LM, et al. **J Immunol** 1990 May 1;144(9):3518–22

Cholesterol and prostaglandin synthesis by cultured human skin fibroblasts in the Alagille syndrome involving paucity of interlobular bile ducts. Dupont J, et al. **J Inherited Metab Dis** 1989;12(4):436–44

Interleukin–1 regulation of prostaglandin E2 synthesis by the papillary collecting duct. Kohan DE. **J Lab Clin Med** 1989 Dec;114(6):717–23

Eicosapentaenoic acid metabolism in brain microvessel endothelium: effect on prostaglandin formation. Yerram NR, et al. **J Lipid Res** 1989 Nov;30(11):1747–57

Dietary energy restriction decreases ex vivo spleen prostaglandin E2 synthesis in Emory mice. Meydani SN, et al. **J Nutr** 1990 Jan;120(1):112–5

Furosemide directly stimulates prostaglandin E2 production in the thick ascending limb of Henle's loop. Miyanoshita A, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1155–9

Chronic treatment with propranolol enhances the synthesis of prostaglandins E2 and I2 by the aorta of spontaneously hypertensive rats. Nishimiya T, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):207–13

Effect of synthesis inhibitors of thromboxane A2 and prostaglandin E2 on the regulation of sodium and water. Reyes JL, et al. **J Pharmacol Exp Ther** 1989 Nov; 251(2):694–9

Prostaglandin–E2 released by pre–implantation human conceptuses. Holmes PV, et al. **J Reprod Immunol** 1990 Mar;17(1):79–86

Antiulcer activity of eel–calcitonin (elcatonin) is associated with enhanced gastric mucosal PGE2 generation in the rat. Goto Y, et al. **Jpn J Pharmacol** 1990 Feb;52(2):379–82

A human IL–1 alpha derivative which lacks prostaglandin E2 inducing activity and inhibits the activity of IL–1 through receptor competition. Yamayoshi M, et al. **Lymphokine Res** 1990 Fall;9(3):405–13

Increased renal biosynthesis of prostaglandin E2 and thromboxane B2 in human congenital obstructive uropathy. Kühl PG, et al. **Pediatr Res** 1990 Jan;27(1):103–7

Antidiuretic hormone reduces the high PGE2 synthesis in papillary collecting duct of DI rats. Jaisser F, et al. **Pflugers Arch** 1989 Aug;414(4):464–8

Transforming growth factor–beta inhibits prostaglandin production in amnion and A431 cells. Berchuck A, et al. **Prostaglandins** 1989 Oct;38(4):453–64

Effect of castration on eicosanoid and catecholamine–induced luteinizing hormone–releasing hormone release in vitro. Gerozissis K, et al. **Prostaglandins** 1990 Jan;39(1):23–31

Effect of captopril or enalapril on renal prostaglandin E2. Katayama S, et al. **Prostaglandins** 1989 Oct;38(4):401–11

Regulation of prostaglandin E2 synthesis in human amnion by protein kinase C. Sander J, et al. **Prostaglandins** 1990 Apr;39(4):355–63

Comparison of the inhibitory effect of polyunsaturated fatty acids on prostaglandin synthesis. II. Fibroblasts. elAttar TM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Feb;39(2):135–9

An inhibitor of prostaglandin biosynthesis from human decidua: partial purification and properties. Ishihara O, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jul; 40(3):223–6

Prostaglandin E2 formation by rat gastroduodenal tissue following intragastric acid perfusion. Kapicioglu S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Apr; 39(4):277–81

Is the inhibitory effect of progesterone on endometrial prostaglandin F2 alpha production due to an inhibition of protein synthesis? Riley SC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Mar; 39(3):189–96

Bacterial endotoxin and tumor necrosis factor stimulate prostaglandin production by human decidua. Romero R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):183–6

Age–associated reduction of prostacyclin and thromboxane synthesis is inversely related to plasma cholesterol levels: modulation by dietary cholesterol supplementation. Takahashi R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jan; 39(1):65–7

Production of prostaglandin E2 rather than E1 in experimental ocular inflammation of rabbit. Tanouchi Y, et al. **Tokushima J Exp Med** 1989 Jun;36(1–2):47–52

[Prostaglandin E2, interleukin 1 and gamma interferon production of mononuclear cells of patients with inflammatory and degenerative joint diseases] Koch B, et al. **Z Rheumatol** 1989 Jul–Aug;48(4):194–9 (Eng. Abstr.) **(Ger)**

[Changes in the prostanoid content and the population of endocrine cells in jejunal biopsies from celiac children] Mariani P, et al. **Minerva Pediatr** 1990 Apr;42(4):131–4 (Eng. Abstr.) **(Ita)**

[Prostaglandin–E2 (PGE2) and interleukin–1 (IL–1) production from plastic–adherent peripheral blood mononuclear cells, and serum and urinary glucocorticoid levels in cancer patients treated with systemic chemotherapy—with special reference to circadian rhythm of serum cortisol levels in cancer] Ito K, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):489–93 (Eng. Abstr.) **(Jpn)**

[Diagnosis of cancer using lymphocyte electrophoresis (3): Electrophoretic mobility, interleukin 1 and prostaglandin E2 productions of monocytes in peripheral blood of cancer patients] Shimizu M, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):639–43 (Eng. Abstr.) **(Jpn)**

[Production of fibronectin and PGE2 by cultured human alveolar macrophages] Moriguchi H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1322–9 (Eng. Abstr.) **(Jpn)**

BLOOD

Transfer of prostaglandins to the fetus after prostaglandin E2 vaginal pessary administration. MacKenzie IZ, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):920–3

Endocrinology of oviposition in the tuatara (Sphenodon punctatus): I. Plasma steroids and prostaglandins during natural nesting. Guillette LJ Jr, et al. **Biol Reprod** 1990 Aug;43(2):285–9

Effects of peri–operatively administered diclofenac and indomethacin on blood loss, bleeding time and plasma prostanoids in man. Rorarius MG, et al. **Eur J Anaesthesiol** 1989 Sep;6(5):335–42

Prostaglandins: PGF2 alpha, PGE2, 6–keto–PGF1 alpha and TXB2 serum levels in dysmenorrheic adolescents before, during and after treatment with oral contraceptives. Creatsas G, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Sep;36(3):292–8

Prostanoids and catecholamines after oral administration of natural progesterone. Tapaninen J, et al. **Gynecol Endocrinol** 1989 Jun;3(2):135–42

Decrease in plasma prostaglandin E2 is not essential for the establishment of continuous breathing at birth in sheep. Lee DS, et al. **J Dev Physiol** 1989 Sep;12(3):145–51

The plasma endorphin, prostaglandin and catecholamine profile of patients with fibrositis treated with cyclobenzaprine and placebo: a 5–month study. Hamaty D, et al. **J Rheumatol Suppl** 1989 Nov;19:164–8

Prostanoids during acute sarcocystiosis in growing pigs.

Daugschies A, et al. **Parasitol Res** 1989;76(2):115–8

Measurement of PGE2 as the methyl oxime by radioimmunoassay using a novel iodinated label. Kelly RW, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):187–91

Plasma 6-keto-PGF1 alpha, thromboxane B2 and PGE2 during diabetic ketoacidosis. Mourits-Andersen T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):39–43

[Plasma prostaglandins E, E2 and F2a in nasopharyngeal carcinoma (NPC)] Chen BS.
Chung Hua Chung Liu Tsa Chih 1989 Jul;11(4):248–50 (Eng. Abstr.) **(Chi)**

[Plasma levels of prostaglandins and leukotrienes in vascular diseases] Dimich D, et al. **Ric Clin Lab** 1989;19 Suppl 1:75–8 **(Ita)**

[Clinical investigation of plasma prostaglandin levels in patients with digestive cancers] Itakura M, et al.
Nippon Gan Chiryo Gakkai Shi 1989 Dec 20;24(11):2522–33 (Eng. Abstr.) **(Jpn)**

[The pathogenetic significance of prostaglandins in food poisoning and therapy questions] Iushchuk ND, et al.
Ter Arkh 1989;61(8):71–4 **(Rus)**

[Changes in the phospholipid and prostaglandin levels in chronic diseases of the biliary tract] Garnik TP, et al.
Vrach Delo 1989 Dec;(12):66–8 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Cerebrospinal fluid prostaglandins, interleukin 1 beta, and tumor necrosis factor in bacterial meningitis. Clinical and laboratory correlations in placebo-treated and dexamethasone-treated patients. Mustafa MM, et al.
Am J Dis Child 1990 Aug;144(8):883–7

Prostaglandins E2 and I2, interleukin 1-beta, and tumor necrosis factor in cerebrospinal fluid in infants and children with bacterial meningitis. Mustafa MM, et al.
Pediatr Infect Dis J 1989 Dec;8(12):921–2

IMMUNOLOGY

Inhibition of complement-factor-5a-induced inflammatory reactions by prostaglandin E2 in experimental meningitis. Kadurugamuwa JL, et al. **J Infect Dis** 1989 Oct; 160(4):715–9

ISOLATION & PURIFICATION

Prostaglandins and the tumor-dependent growth inhibitory activity of Yoshida ascites fluid. Krøll J.
Anticancer Res 1989 Jul-Aug;9(4):1223–5

METABOLISM

40% but not 20% ethanol is an irritant able to evoke gastric release of PGE2 in man. Franco L, et al.
Acta Physiol Hung 1990;75 Suppl:113–4

Influence of renal sympathectomy, sodium depletion and prostaglandin synthetase inhibition on prostaglandin production and [3H]PGE2 binding characteristics in rat kidney. Eriksson LO, et al. **Acta Physiol Scand** 1990 Apr; 138(4):451–61

The effect of indomethacin on cartilage breakdown. Desa FM, et al. **Agents Actions** 1989 Jun;27(3–4):485–7

Mechanisms of parturition: the transfer of prostaglandin E2 and 5-hydroxyeicosatetraenoic acid across fetal membranes. Bennett PR, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):683–7

Prostaglandin E2 metabolism in the human fetal membranes. Cheung PY, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1580–5

PGF2 alpha and PGE2 binding to rat myometrium during gestation, parturition, and postpartum. Molnár M, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E740–7

Release of cyclooxygenase products from primary cultures of tracheal epithelia of dog and human. Widdicombe JH, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):L361–5

Release of 15-hydroxyeicosatetraenoic acid (15-HETE) and prostaglandin E2 (PGE2) by cultured human bronchial epithelial cells. Salari H, et al.
Am J Respir Cell Mol Biol 1989 Sep;1(3):245–50

Effects of interferon gamma on cultured synovial cells from patients with rheumatoid arthritis: inhibition of cell growth, prostaglandin E2, and collagenase release. Nakajima H, et al. **Ann Rheum Dis** 1990 Jul;49(7):512–6

II. Effect of n-3 and n-6 fatty acids on mammary H-ras expression and PGE2 levels in DMBA-treated rats. Karmali RA, et al. **Anticancer Res** 1989 Jul-Aug; 9(4):1169–74

Vagotomy effect on gastric prostaglandins. Primarily neural or secondary to hypoacidity? Levine BA, et al.
Arch Surg 1990 Apr;125(4):457–9

Tentative identification of the toxohormones of cancer cachexia: roles of vasopressin, prostaglandin E2 and cachectin-TNF. Siddiqui RA, et al. **Biochem Int** 1990; 20(4):787–97

Inhibitory effects of diclofenac and indomethacin on interleukin-1-induced changes in PGE2 release. A novel effect on free arachidonic acid levels in human synovial cells. O'Neill LA, et al. **Biochem Pharmacol** 1989 Nov 1; 38(21):3707–11

Fatty acid binding protein (FABP) modulates prostaglandin E binding to rat epididymal adipocyte membrane similarly to albumin. Cohen-Luria R, et al.
Biochim Biophys Acta 1990 Jan 15;1021(1):96–100

In vivo levels of prostaglandin F2 alpha, E2 and prostacyclin in the corpus luteum of pregnant and pseudopregnant rats. Olofsson J, et al. **Biol Reprod** 1990 May-Jun; 42(5–6):792–800

Effects of ethanol and acetaldehyde on collagen synthesis, prostaglandin release and resorption of fetal rat bone in organ culture. Hurley MM, et al. **Bone** 1990;11(1):47–51

Pro-inflammatory mediators induce sustained release of prostaglandin E2 from human dermal microvascular endothelial cells. Bull HA, et al. **Br J Dermatol** 1990 Feb; 122(2):153–64

The effect of strain on bone cell prostaglandin E2 release: a new experimental method. Murray DW, et al.
Calcif Tissue Int 1990 Jul;47(1):35–9

Biphasic effect of sodium fluoride and guanyl nucleotides on binding to prostaglandin E2 receptors in rat epididymal adipocyte membranes. Cohen-Luria R, et al. **Cell Signal** 1989;1(6):561–8

Development of the receptors to prostaglandin E2 in the rat kidney and neonatal renal functions. Meléndez E, et al. **Dev Pharmacol Ther** 1989;14(2):125–34

Effects of zinc L-carnosine on gastric mucosal and cell damage caused by ethanol in rats. Correlation with endogenous prostaglandin E2. Arakawa T, et al.
Dig Dis Sci 1990 May;35(5):559–66

Basal and somatostatin-stimulated gastric intraluminal prostaglandin E2 in patients with gastric ulcer and with gastric adenocarcinoma. Materia A, et al. **Digestion** 1990; 45(3):153–7

Effects of epostane on ovarian levels of progesterone, 17 beta-estradiol, prostaglandin E2, and prostaglandin F2 alpha during ovulation in the gonadotropin-primed immature rat. Espey LL, et al. **Endocrinology** 1990 Jul; 127(1):259–63

Differential effects of various skin tumor-promoting agents on prostaglandin E2 release from primary cultures of mouse epidermal cells. Aizu E, et al. **Eur J Pharmacol** 1990 Jun 21;182(1):19–28

Interleukin-1 potentiates bradykinin- and TNF alpha-induced PGE2 release. O'Neill LA, et al.
Eur J Pharmacol 1989 Jul 18;166(2):131–7

Phorbol esters inhibit chondrogenesis in limb mesenchyme by mechanisms independent of PGE2 or cyclic AMP1. Biddulph DM, et al. **Exp Cell Res** 1989 Dec;185(2):541–5

The presence of gonadotropin and prostaglandin E receptors in the cell membranes of bovine corpora lutea throughout pregnancy. Rao CV. **Fertil Steril** 1975 Dec;26(12):1185–9

Proximal duodenal prostaglandin E2 release and mucosal bicarbonate secretion are altered in patients with duodenal ulcer. Bukhave K, et al. **Gastroenterology** 1990 Oct; 99(4):951–5

Effects of aspirin on gastric mucosal prostaglandin E2 and F2 alpha content and on gastric mucosal injury in humans receiving fish oil or olive oil. Faust TW, et al.
Gastroenterology 1990 Mar;98(3):586–91

Mechanical stretching increases prostaglandin E2 in cultured human amnion cells. Kanayama N, et al.
Gynecol Obstet Invest 1989;28(3):123–6

Prostaglandin E2 and F2 alpha levels in the duodenal and antral mucosa of non-ulcer dyspeptic and duodenal ulcer patients. Parodi MC, et al. **Hepatogastroenterology** 1990 Apr;37(2):208–11

The role of prostaglandins as modulators of insulin-stimulated glucose metabolism in skeletal muscle. Leighton B, et al. **Horm Metab Res Suppl** 1990;22:89–95

B700, a melanoma-specific antigen, catalyzes metabolism of prostaglandin E2. Farzaneh NK, et al. **Int J Cancer** 1990 Jan 15;45(1):104–8

Increased intra-articular substance P and prostaglandin E2 following injection of interleukin-1 in rabbits. O'Byrne EM, et al. **Int J Tissue React** 1990;12(1):11–4

Prostaglandin E2 binding sites in bovine iris-ciliary body. Bhattacherjee P, et al. **Invest Ophthalmol Vis Sci** 1990 Jun; 31(6):1109–13

Time course of rabbit ocular inflammatory response and mediator release after intravitreal endotoxin. Csukas S, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):382–7

Corticosteroid treatment of laser retinal damage affects prostaglandin E2 response. Naveh N, et al.
Invest Ophthalmol Vis Sci 1990 Jan;31(1):9–13

A prostaglandin E receptor coupled to a pertussis toxin-sensitive guanine nucleotide regulatory protein in rabbit cortical collecting tubule cells. Sonnenburg WK, et al. **J Biol Chem** 1990 May 25;265(15):8479–83

The increased release of prostaglandin E2 by Kupffer cells from burned guinea pigs. Ogle CK, et al.
J Burn Care Rehabil 1990 Jul-Aug;11(4):287–94

Starvation decreases insulin secretion, prostaglandin E2 production and phospholipase A2 activity in rat pancreatic islets. Tadayyon M, et al. **J Endocrinol** 1990 Mar; 124(3):455–61

Gastric mucosal prostaglandin E2 levels in cirrhosis and portal hypertension. Weiler H, et al. **J Hepatol** 1990 Jul; 11(1):58–64

Deacylated lipopolysaccharide inhibits plasminogen activator inhibitor-1, prostacyclin, and prostaglandin E2 induction by lipopolysaccharide but not by tumor necrosis factor-alpha. Riedo FX, et al. **J Immunol** 1990 May 1; 144(9):3506–12

Hepatocyte modulation of Kupffer cell prostaglandin E2 production in vitro. Billiar TR, et al. **J Leukoc Biol** 1990 Apr;47(4):305–11

Prostaglandin levels in unicameral bone cysts treated by intralesional steroid injection. Shindell R, et al.
J Pediatr Orthop 1989 Sep-Oct;9(5):516–9

Minimal and mild endometriosis. Nd:YAG laser treatment and changes in prostaglandin concentrations in peritoneal fluid. Morita M, et al. **J Reprod Med** 1990 Jun;35(6):621–4

Effect of verapamil on the gastric mucosal level of PGE2 during stress. Auguste LJ, et al. **J Surg Res** 1990 Jul; 49(1):34–6

Prostanoids in the vitreous of diabetic and nondiabetic human eyes with retinal detachment. Naveh N, et al.
Ophthalmic Res 1990;22(1):3–11

Effect of plasma from cancer patients on rat skeletal muscle protein degradation and PGE2 release in vitro. Civelli M, et al. **Pharmacol Res** 1990 Mar-Apr;22(2):87–95

Subcellular localization of cyclo-oxygenase-prostaglandin E2 synthetase complex in goat vesicular gland by catalytic activity analysis. Mukherjee E, et al. **Prostaglandins** 1989 Nov;38(5):557–63

The correlation between excessive vitreal protein levels, prostaglandin E2 levels, and the blood retinal barrier. Naveh N, et al. **Prostaglandins** 1990 Feb;39(2):147–56

Temporal changes in metabolites of prostanoids in milk of heifers after intramammary infusion of Escherichia coli organisms [published erratum appears in Prostaglandins 1990 Jul;40(1):115–8] Peter AT, et al. **Prostaglandins** 1990 Apr;39(4):451–7

Modulation of 3H-prostaglandin E2 binding sites in the rabbit gastric mucosa. Tomoi M, et al. **Prostaglandins** 1990 Feb; 39(2):113–22

Reduced levels of PGE2 uptake by intact reno-medullary collecting tubule cells isolated from the spontaneously hypertensive rat and the identification of an intracellular PGE2 receptor/binding protein. Deane DL, et al.
Prostaglandins Leukot Essent Fatty Acids 1990 Mar; 39(3):177–87

Prostaglandin E2 and F2 alpha in mid-pregnant rat uterus and at parturition. Gu W, et al.
Prostaglandins Leukot Essent Fatty Acids 1990 May; 40(1):27–30

The effect of chlamydial infection on the initiation of premature labour: serial measurements of intrauterine prostaglandin E2 in amniotic fluid, allantoic fluid and utero-ovarian vein, using catheterised sheep experimentally infected with an ovine abortion strain of Chlamydia psittaci [published errata appear in Prostaglandins Leukot Essent Fatty Acids 1990 Apr;39(4):336 and 1990 Jul;40(3):238] Howie A, et al.
Prostaglandins Leukot Essent Fatty Acids 1989 Sep; 37(3):203–11

[3H]prostaglandin uptake in vivo by rabbit uterine tissues and blastocysts. Jones MA, et al.
Prostaglandins Leukot Essent Fatty Acids 1990 Apr; 39(4):267–75

Humoral factors in the induction of prostaglandin E2-producing macrophages in vitro. Shibata Y.
Reg Immunol 1989 May-Jun;2(3):158–68

Albumin and GTP modulate the affinity of prostaglandin E2 receptors in rat epididymal adipocyte membranes. Cohen-Luria R, et al.
Second Messengers Phosphoproteins 1988–89; 12(5–6):225–34

Arachidonic acid metabolite production following focal cerebral ischemia: time course and effect of meclofenamate. Bucci MN, et al. **Surg Neurol** 1990 Jan;33(1):12–4

The role of prostaglandins in the para-aminoclonidine-induced reduction of intraocular pressure. Wang RF, et al. **Trans Am Ophthalmol Soc** 1990; 87:94–104; discussion 104–6

Prostanoid release in experimental liver transplantation. Post S, et al. **Transplantation** 1990 Mar;49(3):490–4

[Leukotriene B4, leukotriene C4 and prostaglandin E2 in the serum, synovial fluid and synovium in patients with rheumatoid arthritis] Sawazaki Y.
Nippon Ika Daigaku Zasshi 1989 Dec;56(6):559–64 (Eng. Abstr.) **(Jpn)**

[Prostaglandin E2 receptor and GTP binding protein in the normal and nephrotic rat kidney] Suzuki S.
Nippon Jinzo Gakkai Shi 1989 Jul;31(7):705–12 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

The effects of prostaglandins E1, E2 and F2 alpha on mucociliary activity in the rabbit maxillary sinus. Dolata J, et al. **Acta Otolaryngol (Stockh)** 1989 Sep-Oct; 108(3–4):290–7

In vitro electrophysiological effects of cimetidine, prostaglandin E2 and acetylcholine on the rabbit gastric mucosa. Rácz I, et al. **Acta Physiol Hung** 1989; 73(2–3):159–66

Stimulation of renin release by PGE2 and PGI2 infusion in the dog: enhancing effect of ureteral occlusion or administration of ethacrynic acid. Bugge JF, et al.
Acta Physiol Scand 1990 Feb;138(2):193–201

Dilatation of the cervix with dinoprostone ('Prepidil gel') prior to insertion of an intrauterine device: report of two cases. van der Griendt MC, et al. **Adv Contracept** 1990 Mar;6(1):53–6

Effects of analgesics on bradykinin-induced writhing in mice presensitized with PGE2. Walter T, et al.
Agents Actions 1989 Jun;27(3–4):375–7

Effect of indomethacin and prostaglandin E2 on structural differentiation of rat endometrium during artificially induced decidualization. Keys JL, et al. **Am J Anat** 1990 Jun;188(2):148–62

Effect of intravaginal application of prostaglandin E2 gel on the mechanical properties of the ovine cervix uteri at term. Owiny JR, et al. **Am J Obstet Gynecol** 1990 Aug; 163(2):657–60

NaCl transport across equine proximal colon and the effect of endogenous prostanoids. Clarke LL, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G62–9

Central interleukin 1–elicited hyperinsulinemia is mediated by prostaglandins but not autonomics. Cornell RP. **Am J Physiol** 1989 Oct;257(4 Pt 2):R839–46

Prostaglandin fevers in rats: regulated change in body temperature or change in regulated body temperature? Feng JD, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R695–9

PGE2 inhibits AVP–induced water flow in cortical collecting ducts by protein kinase C activation. Hébert RL, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):F318–25

Prostaglandin influences on afferent arteriolar responses to vasoconstrictor agonists. Inscho EW, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):F157–63

Mechanism of prostaglandin E2–induced increase of proximal sodium reabsorption in the rat. Kinoshita Y, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R82–6

Prostaglandin E2 inhibits oxygen consumption in rabbit medullary thick ascending limb. Lear S, et al. **Am J Physiol** 1990 May;258(5 Pt 2):F1372–8

Effect of prostaglandin, leukotriene, and arachidonic acid on experimental otitis media with effusion in chinchillas. Jung TT, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Jun; 148:28–32

Inhibition of palatal fusion in vitro by indomethacin in two strains of mice with different H–2 backgrounds. Montenegro MA, et al. **Arch Oral Biol** 1989;34(12):949–55

Pattern of [14C]2–deoxyglucose concentration associated with potentiation of reproductive behavior by prostaglandin E2. Diakow C, et al. **Behav Neurosci** 1989 Oct;103(5):1028–34

Involvement of prostaglandin E2 in the inhibition of osteocalcin synthesis by human osteoblast–like cells in response to cytokines and systemic hormones. Evans DB, et al. **Biochem Biophys Res Commun** 1990 Feb 28; 167(1):194–202

Effects of indomethacin and prostaglandin E2 on amylase secretion by rat parotid tissue. Hata F, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):390–3

Biochemical evidence for PGI2 and PGE2 receptors in the rabbit renal preglomerular microvasculature. Chaudhari A, et al. **Biochim Biophys Acta** 1990 Jul 12;1053(2–3):156–61

Interactive regulation of signalling pathways in bone cells: possible modulation of PGE2–stimulated adenylyl cyclase activity by protein kinase C. Dobson PR, et al. **Biochim Biophys Acta** 1990 May 2;1052(2):323–6

Local alteration in adenylate cyclase activity and stimulation response at implantation site in rabbit endometrium during early pregnancy. Fortier MA, et al. **Biol Reprod** 1990 Jan; 42(1):106–13

Effects of prostaglandin E2 on production of new cancellous bone in the axial skeleton of ovariectomized rats. Mori S, et al. **Bone** 1990;11(2):103–13

Simultaneous assessment of bone resorption and formation in cultures of 22–day fetal rat parietal bones: effects of parathyroid hormone and prostaglandin E2. Vargas SJ, et al. **Bone** 1990;11(1):61–5

Prostaglandin E2 initially inhibits and then stimulates bone resorption in isolated rabbit osteoclast cultures. Okuda A, et al. **Bone Miner** 1989 Nov;7(3):255–66

Response of thermoresponsive neurons of rat's hypothalamus during intracarotid infusion of prostaglandin E2. Sakata Y, et al. **Brain Res Bull** 1990 Mar;24(3):529–32

Prostaglandin E2 inhibits proliferation but not interleukin–2 production by phorbol ester plus calcium ionophore–activated murine T cell clones. Cunha–Neto E, et al. **Braz J Med Biol Res** 1989;22(3):365–77

Some mechanisms involved in the prostaglandin E2 immunosuppressive effect in (CBA x C57BL)F1 mice in vivo. Kozlov V, et al. **Cell Immunol** 1990 Jun;128(1):242–9

Inhibition of human NK cell and LAK cell cytotoxicity and differentiation by PGE2. Leung KH. **Cell Immunol** 1989 Oct 15;123(2):384–95

Effect of leukotriene B4 and prostaglandin E2 on the adhesion of lymphocytes to endothelial cells. To SS, et al. **Clin Exp Immunol** 1990 Jul;81(1):160–5

Ethnic differences in cyclic AMP accumulation: effect on alpha 2, beta 2, and prostanoid receptor responses. Stein M, et al. **Clin Pharmacol Ther** 1990 Mar;47(3):360–5

Pertussis toxin–sensitive G protein mediation of PGE2 inhibition of cAMP metabolism and phasic glucose–induced insulin secretion in HIT cells. Seaquist ER, et al. **Diabetes** 1989 Nov;38(11):1439–45

Exogenous prostaglandin protects against acid–induced deep mucosal injury by stimulating alkaline secretion in rat duodenum [see comments] Leung FW, et al. **Dig Dis Sci** 1989 Nov;34(11):1686–91 Comment in: Dig Dis Sci 1990 Jul;35(7):918–20.

Mechanism of prostaglandin E2–induced glucose production in rat hepatocytes. Mine T, et al. **Endocrinology** 1990 Jun; 126(6):2831–6

Biphasic effects of prostaglandin E2 on bone formation in cultured fetal rat calvariae: interaction with cortisol. Raisz LG, et al. **Endocrinology** 1990 Mar;126(3):1654–9

Interleukin 1 and/or tumor necrosis factor–alpha synergize with granulocyte–macrophage colony–stimulating factor to enhance histamine synthesis in hematopoietic cells: role of prostaglandin E2. Piquet–Pellorce C, et al. **Eur J Immunol** 1989 Nov;19(11):1999–2003

Further investigation into the ocular effects of prostaglandin E2, leukotriene B4 and formyl–methionyl–leucyl phenylalanine. Bhattacherjee P, et al. **Exp Eye Res** 1990 Jul;51(1):93–6

Proliferation of rat and human lung fibroblasts following exposure to prostaglandin E2. Tobey RA, et al. **Exp Lung Res** 1990 May–Jun;16(3):235–55

Morphological effects of aspirin and prostaglandin on the canine gastric mucosal surface. Analysis with a phospholipid–selective cytochemical stain. Kao YC, et al. **Gastroenterology** 1990 Mar;98(3):592–606

Stimulation of glycoprotein and protein synthesis in isolated pig gastric mucosal cells by prostaglandins. Heim HK, et al. **Gut** 1990 Apr;31(4):412–6

Different effect of prostaglandin E2 on B–cell activation by two distinct B–cell differentiation factors, B151–TRF1/IL–5 and B151–TRF2: selective inhibition of B151–TRF2–induced antibody response through increases in intracellular cyclic AMP levels. Ishihara K, et al. **Immunology** 1989 Oct;68(2):154–62

Effect of prostaglandin E2 on pokeweed mitogen–activated human lymphocyte cultures. Teti DV, et al. **Immunopharmacol Immunotoxicol** 1989;11(4):687–700

Forskolin and prostaglandin E2 regulate the generation of human cytolytic T lymphocytes. Khan MM, et al. **Immunopharmacology** 1990 May–Jun;19(3):151–61

Prostaglandin E2 enhances and gamma interferon inhibits germ tube formation in Candida albicans. Kalo–Klein A, et al. **Infect Immun** 1990 Jan;58(1):260–2

Phosphatidyl inositol hydrolysis after CD3 binding in human peripheral blood T cells: inhibition by prostaglandin E2. Liang S, et al. **Int J Immunopharmacol** 1989;11(7):809–16

Induction of labour postdates in primiparae using vaginal prostaglandin tablets. Turner MJ, et al. **Ir J Med Sci** 1990 Jan;159(1):6–9

The differential effect of prostaglandin E2 on transforming growth factor–beta and insulin–induced collagen formation in lung fibroblasts. Fine A, et al. **J Biol Chem** 1989 Oct 15;264(29):16988–91

Prostaglandin E2 inhibition of growth in a colony–stimulating factor 1–dependent macrophage cell line. Jackowski S, et al. **J Biol Chem** 1990 Apr 25; 265(12):6611–6

Involvement of protein kinase C in prostaglandin E2–induced catecholamine release from cultured bovine adrenal chromaffin cells. Negishi M, et al. **J Biol Chem** 1990 Apr 15;265(11):6182–8

Parathyroid hormone, but not prostaglandin E2, changes the shape of osteoblasts maintained on bone in vitro. Ali NN, et al. **J Bone Miner Res** 1990 Feb;5(2):115–21

Modulation of responsiveness of the adenylate cyclase system in avian chondroprogenitor cells by pertussis toxin, PTH, and PGE2. Pines M, et al. **J Bone Miner Res** 1989 Oct; 4(5):743–50

Heterogeneity in hormone responses and patterns of collagen synthesis in cloned dermal fibroblasts. Goldring SR, et al. **J Clin Invest** 1990 Mar;85(3):798–803

Inhibitory effects of amiloride and its analogues on prostaglandin E2–stimulated fluid transport by cultured porcine thyroid cells: evidence for apical membrane Na+ channels. Matainaho T, et al. **J Endocrinol** 1989 Oct; 123(1):93–7

Calcitonin, prostaglandin E2, and dibutyryl cyclic adenosine 3',5'–monophosphate disperse the specific microfilament structure in resorbing osteoclasts. Lakkakorpi PT, et al. **J Histochem Cytochem** 1990 Oct;38(10):1487–93

Diuresis and natriuresis after dihydropyridines: role of prostaglandin E. Chellingsworth MC, et al. **J Hum Hypertens** 1990 Jun;4(3):241–5

Bradykinin sensitization of colony–stimulating factor–1–responsive murine marrow progenitors to prostaglandin E. A property of the amino–terminal tetrapeptide fragment. Moore RN, et al. **J Immunol** 1990 Jan 15;144(2):667–70

IL–1 binds to high affinity receptors on human osteosarcoma cells and potentiates prostaglandin E2 stimulation of cAMP production. Rodan SB, et al. **J Immunol** 1990 Aug 15; 145(4):1231–7

Combined effects of tumor necrosis factor–alpha, prostaglandin E2, and corticosterone on induced Ia expression on murine macrophages. Zimmer T, et al. **J Immunol** 1990 Aug 15;145(4):1167–75

The modulatory effect of exogenously added prostaglandin E1 or E2 on the delayed–type hypersensitivity reaction of normal or tumored mice. Stylos WA, et al. **J Immunopharmacol** 1979;1(4):521–33

Prostaglandin E2 enhances the sodium conductance of exocrine glands in isolated frog skin (Rana esculenta). Nielsen R. **J Membr Biol** 1990 Jan;113(1):31–8

Synergistic effect of prostaglandin E2 and ouabain on catecholamine release from cultured bovine adrenal chromaffin cells. Tanaka T, et al. **J Neurochem** 1990 Jan; 54(1):86–95

Influence of PGE2– and cAMP–modulating agents on human glioblastoma cell killing by interleukin–2–activated lymphocytes. Kuppner MC, et al. **J Neurosurg** 1990 Apr; 72(4):619–25

Possible involvement of prostaglandin E in development of ACTH response in rats induced by human recombinant interleukin–1. Morimoto A, et al. **J Physiol (Lond)** 1989 Apr;411:245–56

Modulation by indomethacin or prostaglandin E2 of the incidence of diethylnitrosamine–induced gamma–glutamyltranspeptidase–positive foci in rat liver. Taton G, et al. **Jpn J Cancer Res** 1990 Aug;81(8):747–53

Stimulation by prostaglandin E2 of alkaline secretion in the rat duodenum: comparative study with hypertonic NaCl. Takeuchi K, et al. **Jpn J Pharmacol** 1990 May;53(1):67–74

Effect of methotrexate on the intestinal mucosa of PGE2–treated rats. Bernard A, et al. **Life Sci** 1989; 45(26):2591–603

Induction of differentiation in v–Ha–ras–transformed MDCK cells by prostaglandin E2 and 8–bromo–cyclic AMP is associated with a decrease in steady–state level of inositol 1,4,5–trisphosphate. Wu YY, et al. **Mol Cell Biol** 1990 Jan; 10(1):57–67

Endogenous noradrenaline impairs the prostaglandin–induced inhibition of noradrenaline release. Allgaier C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Oct; 340(4):472–4

Effect of indomethacin in vivo and PGE2 in vitro on MTAL Na–K–ATPase of the rat kidney. Wald H, et al. **Pflugers Arch** 1990 Feb;415(5):648–50

Prostaglandin E2 reduces voluntary ethanol consumption in the rat. Ross AD, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):527–30

Antiarrhythmic effects of prostaglandins E2 and I2 on ouabain–induced cardiac arrhythmias in cats: effect of vagotomy and adrenergic neuron blockade. Rao TS, et al. **Pharmacol Res** 1990 Mar–Apr;22(2):151–60

The effect of prostaglandins E2 and F2 alpha on carotid blood flow in rats with renovascular hypertension. Vacek L, et al. **Physiol Bohemoslov** 1989;38(6):481–7

Influence of exogenous prostaglandin E2 and stress on circulating corticosterone concentrations in Coturnix. Satterlee DG, et al. **Poult Sci** 1989 Sep;68(9):1289–93

Immunocytology on microwave–fixed cells reveals rapid and agonist–specific changes in subcellular accumulation patterns for cAMP or cGMP [published erratum appears in Proc Natl Acad Sci U S A 1990 May;87(9):3633] Barsony J, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1188–92

Prostaglandins as mediators of acidification in the urinary bladder of Bufo marinus. Frazier LW, et al. **Proc Soc Exp Biol Med** 1990 May;194(1):10–5

Arachidonic acid and its metabolites increase cytosolic free calcium in bovine luteal cells. Alila HW, et al. **Prostaglandins** 1990 May;39(5):481–96

Responsiveness of adenylate cyclase to PGE2 and forskolin in isolated cells from micromass cultures of chick limb mesenchyme during chondrogenesis. Capehart AA, et al. **Prostaglandins** 1990 Feb;39(2):167–78

Prostaglandins can modify gamma–radiation and chemical induced cytotoxicity and genetic damage in vitro and in vivo. Das UN, et al. **Prostaglandins** 1989 Dec;38(6):689–716

Pre–junctional inhibitory action of prostaglandin E2 on excitatory neuro–effector transmission in the human bronchus. Ito I, et al. **Prostaglandins** 1990 Jun;39(6):639–55

15–Keto–13,14–dihydroprostaglandin E2– and F2 alpha–metabolite levels in blood from men and women given prostaglandin E2 orally. Bremme K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(3):169–76

Arbaprostil's [15(R)–15–methyl PGE2] effects on intrauterine pressure in the nonpregnant and pregnant human female—a report of four clinical trials. Euler AR, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Nov; 38(2):91–8

The effects of nocloprost, nileprost, iloprost and (15 S)–15–methyl–PGE2 on gastric mucosal damage induced by stress, indomethacin and ethanol. Zengil H, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 May; 40(1):13–6

Effects of carbenoxolone and prostaglandin E2 on transmucosal potential difference in the rat stomach. Watanabe K, et al. **Scand J Gastroenterol Suppl** 1989; 162:87–90

Effect of prostaglandin E2 and indomethacin on blood flow in the lower urinary tract of the rabbit. Eika B, et al. **Scand J Urol Nephrol Suppl** 1989;125:69–72

Prostaglandin E1 and E2 suppression of in vitro lymphoid responses to alloantigen. Bowes LG, et al. **Transplant Proc** 1989 Oct;21(5):3769–70

Further characterization of the subset–specific effects of prostaglandin E2 on T lymphocyte clone function. Jordan ML, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):307–9

Prostaglandin E1 but not E2 is cytoprotective of energy metabolism and reticuloendothelial function in the ischemic canine liver. Ueda Y, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1329–30

[The effect of prostaglandin E2 (PGE2) on growth, proliferation, morphology and protein synthesis of aortic smooth muscle cells (SMC) in vitro] Lei ZZ, et al. **Chung–hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):188–90 (Eng. Abstr.) **(Chi)**

[Prostaglandin E2 and D2: opponents in the regulation of the sleep–wake rhythm?] Uhl D. **Med Monatsschr Pharm** 1990 Jan;13(1):2–4 **(Ger)**

[Relationships between ethanol-induced sleep and aspirin, indomethacin or PGE2 in inbred rats] Suzuki T, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Dec;24(6):480–9 (Eng. Abstr.) **(Jpn)**

[Effect of anti-ulcer drugs and PGE2 on the proliferation of rat gastric cultured cells] Uchida M, et al. **Nippon Yakurigaku Zasshi** 1990 Apr;95(4):185–90 (Eng. Abstr.) **(Jpn)**

[Effects of prostaglandins E2 and F2 alpha on the hypothalamo-hypophyseal-adrenal system and thyroid function in mice with Lewis lung carcinoma] Grinzhevskaia SN, et al. **Eksp Onkol** 1990;12(1):47–50 (Eng. Abstr.) **(Rus)**

[The effect of oxytocin, prostenon and obzidan on uterine contractile activity in pregnant rats] Korkhov VV, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):50–1 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Role of endogenous prostaglandin E2 in interleukin 1 production by peripheral blood monocytes from patients with rheumatoid arthritis. Yamamura M, et al. **Acta Med Okayama** 1990 Feb;44(1):13–20

Physiologic role of coronary PGI2 and PGE2 in modulating coronary vascular response to sympathetic stimulation. Neri Serneri GG, et al. **Am Heart J** 1990 Apr;119(4):848–54

Similarities between immunoregulation in pregnancy and in malignancy: the role of prostaglandin E2. Lala PK. **Am J Reprod Immunol** 1989 Aug;20(4):147–52 (83 ref.)

Regulatory effect of prostaglandin E2 on fibronectin release from human alveolar macrophages. Ozaki T, et al. **Am Rev Respir Dis** 1990 Apr;141(4 Pt 1):965–9

Leukotrienes do not regulate interleukin 1 production by activated macrophages. Parkar BA, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):422–9

Prostaglandin E2 does not regulate total or myofibrillar protein breakdown in incubated skeletal muscle from normal or septic rats. Hasselgren PO, et al. **Biochem J** 1990 Aug 15;270(1):45–50

Role of prostaglandins in tumour necrosis factor induced weight loss. Mahony SM, et al. **Br J Cancer** 1989 Jul; 60(1):51–5

The effect of sialoadenectomy on gastric mucosal integrity in the rat: roles of epidermal growth factor and prostaglandin E2. Tepperman BL, et al. **Can J Physiol Pharmacol** 1989 Dec;67(12):1512–9

Association of a functional prostaglandin E2–protein kinase A coupling with responsiveness of metastatic Lewis lung carcinoma variants to prostaglandin E2 and to prostaglandin E2–producing nonmetastatic Lewis lung carcinoma variants. Young MR, et al. **Cancer Res** 1990 May 15;50(10):2973–8

Depressed lymphocyte transformation and the role of prostaglandins in atopic dermatitis. Jakob T, et al. **Clin Exp Immunol** 1990 Mar;79(3):380–4

Macrophage-secreted prostaglandin E2 potentiates immune complex–induced B cell unresponsiveness. Stein SH, et al. **Eur J Immunol** 1990 Feb;20(2):403–7

ACTH response induced by interleukin-1 is mediated by CRF secretion stimulated by hypothalamic PGE. Watanabe T, et al. **Experientia** 1990 May 15;46(5):481–4

Effect of prostaglandin E2 on oviductal adenosine 3'5'-monophosphate levels during estrus and pseudopregnancy. Maia H Jr, et al. **Fertil Steril** 1975 Dec; 26(12):1182–4

Role of prostaglandins and calcium in the effects of Entamoeba histolytica on colonic electrolyte transport. McGowan K, et al. **Gastroenterology** 1990 Apr; 98(4):873–80

Suppressive activity of alveolar macrophages and blood monocytes from interstitial lung diseases: role of released soluble factors. Fireman E, et al. **Int J Immunopharmacol** 1989;11(7):751–60

Prostaglandin E2 inhibits formation of osteoclastlike cells in long-term human marrow cultures but is not a mediator of the inhibitory effects of transforming growth factor beta. Chenu C, et al. **J Bone Miner Res** 1990 Jul;5(7):677–81

Interleukin 1 suppresses inflammation in rabbit colitis. Mediation by endogenous prostaglandins. Cominelli F, et al. **J Clin Invest** 1990 Feb;85(2):582–6

Predominant functional roles for thromboxane A2 and prostaglandin E2 during late nephrotoxic serum glomerulonephritis in the rat. Takahashi K, et al. **J Clin Invest** 1990 Jun;85(6):1974–82

The role of arachidonic acid metabolite PGE2 on T cell proliferative response. Valitutti S, et al. **J Clin Lab Immunol** 1989 Aug;29(4):167–73

Meclofenamate does not affect lung development in fetal sheep. Wallen LD, et al. **J Dev Physiol** 1989 Aug; 12(2):109–15

Interleukin-6 production by endotoxin-stimulated Kupffer cells is regulated by prostaglandin E2. Callery MP, et al. **J Surg Res** 1990 Jun;48(6):523–7

Immune-mediated mesangial cell injury—biosynthesis and function of prostanoids. Stahl RA, et al. **Kidney Int** 1990 Aug;38(2):273–81

Prostaglandin E2, monocyte adherence and interleukin-1 in the regulation of human natural killer cell activity by monocytes. Bloom ET, et al. **Nat Immun Cell Growth Regul** 1990;9(1):36–48

Involvement of prostaglandins and histamine in radiation-induced temperature responses in rats. Kandasamy SB, et al. **Radiat Res** 1990 Jan;121(1):84–90

Prostaglandin E2 support of adrenal medullary release of epinephrine in anephric dogs. Badder EM, et al. **Surg Forum** 1978;29:114–7

Evidence for prostaglandin mediation of the stimulation of luteinizing hormone releasing hormone release by calf thymus extract. Cieslak D, et al. **Thymus** 1990 May; 15(3):193–6

Thymosin alpha 1 enhancement of human lymphocyte proliferation is not mediated by prostaglandin E2. Colarian J, et al. **Thymus** 1990 Jun;15(4):241–7

[The role of arachidonic acid derivatives in the system of immunity and its changes in aging] Kharazi AI, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):107–13 (61 ref.) (Eng. Abstr.) **(Rus)**

SECRETION

Enhanced prostaglandin E2 secretion by cytokine-stimulated human synoviocytes in the presence of subtherapeutic concentrations of nonsteroidal antiinflammatory drugs. Lindsley HB, et al. **Arthritis Rheum** 1990 Aug;33(8):1162–9

Sequential evaluation of gastric intraluminal prostaglandin E2 release, acid secretion and DNA-flow cytometry in N-methyl-N-nitro-N-nitrosoguanidine gastric carcinogenesis in the rat. Silecchia G, et al. **Cancer Lett** 1990 Jan;49(1):73–80

Release of prostaglandin E2 from cells by photodynamic treatment in vitro. Henderson BW, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6896–900

Gliadin challenge–induced jejunal prostaglandin E2 secretion in celiac disease. Lavö B, et al. **Gastroenterology** 1990 Sep; 99(3):703–7

Hyperventilation stimulates the release of prostaglandin I2 and E2 from lung in humans. Ishii Y, et al. **Prostaglandins** 1990 Jun;39(6):685–91

Increased and intermittent prostaglandin release from amnion detected by a new superfusion technique for full thickness fetal membrane. Reddi K, et al. **Prostaglandins** 1990 Jun; 39(6):601–10

Structure-activity relationships of cyclosporines. Inhibition of angiotensin II–stimulated prostaglandin release in cultured rat mesangial cells. Walker RJ, et al. **Transplantation** 1990 Aug;50(2):343–5

THERAPEUTIC USE

Uterine hyperstimulation after low-dose prostaglandin E2 therapy: tocolytic treatment in 181 cases. Egarter CH, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):794–6

Management of severe postpartum hemorrhage by intrauterine irrigation with prostaglandin E2. Peyser MR, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):694–6

Treatment of unruptured ectopic pregnancy by needling of sac and injection of methotrexate or PG E2 under transvaginal sonography control. Report of 10 cases. Feichtinger W, et al. **Arch Gynecol Obstet** 1989;246(2):85–9

Labour induction with low dose PGE2 vaginal gel: result of an Australian multicentre randomized trial. MacLennan A, et al. **Aust N Z J Obstet Gynaecol** 1989 May;29(2):124–8

Prostaglandin E2 in the treatment of oral mucositis due to radiochemotherapy in patients with haematological malignancies. Pretnar J, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 3:106

Local benefit of prostaglandin E2 in radiochemotherapy-induced oral mucositis. Matejka M, et al. **Br J Oral Maxillofac Surg** 1990 Apr;28(2):89–91

Treatment of ectopic pregnancy with prostaglandin E2. Ribič-Pucelj M, et al. **Clin Exp Obstet Gynecol** 1989; 16(4):106–9

Umbilical artery Doppler flow velocity waveforms and maternal prostaglandin E2 and F2 alpha metabolite concentrations during cervical ripening with prostaglandin E2. Fairlie FM, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Oct;37(1):7–13

Clinical trial of prostaglandin E2 on the oral lesions of pemphigus vulgaris [letter] Morita H, et al. **Int J Dermatol** 1990 Mar;29(2):155–6

A scoring system for induction of labor using prostaglandin E2 vaginal tablets. Grunstein S, et al. **Int J Gynaecol Obstet** 1990 Feb;31(2):131–4

The effect of prostaglandins on experimental storage disease in rats. Joh K, et al. **J Exp Pathol (Oxford)** 1990 Apr; 71(2):171–86

Prostaglandins for enhancing detrusor function after surgery for stress incontinence in women. Koonings PP, et al. **J Reprod Med** 1990 Jan;35(1):1–5

Prostaglandin E2 prevents fulminant hepatitis and the induction of procoagulant activity in susceptible animals. Abecassis M, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1103–5

[Various aspects of the medical treatment of newborn infants with heart disease] Vliers A, et al. **Bull Mem Acad R Med Belg** 1989;144(12):621–9 (Eng. Abstr.) **(Fre)**

[Effects of indomethacin and prostaglandin E2 administered intrarectally on colon carcinogenesis induced by azoxymethane (AOM) in rats] Yamashita I, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jul;86(7):1438–47 (Eng. Abstr.) **(Jpn)**

[Indices of the acid-base status and blood gases and the serotonin content during the treatment of uterine inertia with hyperbaric oxygenation and prostenon] Okoev GG, et al. **Akush Ginekol (Mosk)** 1989 Nov;(11):62–3 **(Rus)**

[Central hemodynamics in women during labor with combined use of prostaglandin E2 and prolonged epidural analgesia] Tsoĭ VA, et al. **Anesteziol Reanimatol** 1989 May–Jun;(3):61–3 (Eng. Abstr.) **(Rus)**

[The effect of prostaglandin E2 on transport processes in the hepatocytes during parenteral feeding against a background of protein starvation] Glants RM, et al. **Gematol Transfuziol** 1989 Dec;34(12):22–5 (Eng. Abstr.) **(Rus)**

[Treatment of acute renal insufficiency using prostaglandin E2 in surgical patients] Glants RM, et al. **Klin Khir** 1990; (3):32–4 (Eng. Abstr.) **(Rus)**

[The cytoprotective effect of prostaglandin E2 in duodenal ulcers] Skliarov EIa, et al. **Lab Delo** 1989;(7):45–8 (Eng. Abstr.) **(Rus)**

[Hemodynamic effect of prostenone in resistant forms of arterial hypertension] Zelnalov FM, et al. **Sov Med** 1989; (6):57–9 **(Rus)**

TOXICITY

Prostaglandin E2–induced hyperplasia of the rat antral epithelium is followed by a secondary inhibition of the mitotic activity. Uribe A, et al. **Prostaglandins** 1990 Jul; 40(1):1–11

URINE

Urinary prostaglandin E2 in patients with vesicoureteral reflux. Walker RD, et al. **Child Nephrol Urol** 1990; 10(1):18–21

Renal hemodynamics and prostaglandin E2 excretion in a nonhuman primate model of septic shock. Schaer GL, et al. **Crit Care Med** 1990 Jan;18(1):52–9

Simultaneous determination of the primary prostanoids prostaglandin E2, prostaglandin F2 alpha and 6-oxoprostaglandin F1 alpha by immunoaffinity chromatography in combination with negative ion chemical ionization gas chromatography–tandem mass spectrometry. Mackert G, et al. **J Chromatogr** 1989 Sep 29;494:13–22

Selective stimulation of renal PGE2 by potassium canrenoate in essential hypertension. Castellani S, et al. **Prog Clin Biol Res** 1989;301:297–301

Possible role of renal prostaglandin E2 in natriuresis associated with supraventricular tachycardia. Imanishi M, et al. **Prostaglandins** 1990 May;39(5):559–68

Effect of probenecid on the urinary excretion of TXB2 and PGE2 in the anaesthetised rat. Haylor J, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Apr; 39(4):323–8

Atrial natriuretic factor, angiotensin II, aldosterone, arginine vasopressin and urinary prostaglandin E2 excretion in hyperfiltrating unilaterally nephrectomized humans. Sørensen SS, et al. **Scand J Clin Lab Invest** 1990 Jun; 50(4):371–8

PGE2 elevation occurs in the urine in both bladder and duodenally drained pancreas allograft rejection. Zheng T, et al. **Transplant Proc** 1990 Apr;22(2):732–3

[Urinary prostaglandin levels in patients with arteria' hypertension with benign and malignant course] Runikhin AIu, et al. **Kardiologiia** 1990 Jan;30(1):12–7 (Eng. Abstr.) **(Rus)**

[Effect of furosemide on the renal prostaglandin system in liver cirrhosis with ascites] Mansurov KhKh, et al. **Klin Med (Mosk)** 1989 Oct;67(10):78–81 (Eng. Abstr.) **(Rus)**

DINUCLEOSIDE DIPHOSPHATES see DINUCLEOSIDE PHOSPHATES

DINUCLEOSIDE MONOPHOSPHATES see DINUCLEOSIDE PHOSPHATES

DINUCLEOSIDE OLIGOPHOSPHATES see DINUCLEOSIDE PHOSPHATES

DINUCLEOSIDE PHOSPHATES

Synthesis and applications of 8-azido photoaffinity analogs of P1,P3-bis(5'-adenosyl)triphosphate and P1,P4-bis(5'-adenosyl)tetraphosphate. Prescott M, et al. **Anal Biochem** 1990 Feb 1;184(2):330–7

Determination of solution conformation of DNA backbone: application of homonuclear (J, delta) spectroscopy. Hosur RV, et al. **Biopolymers** 1990 May–Jun;29(6–7):953–9

A Monte Carlo simulation study of the aqueous hydration of r(GpC)2: comparison with crystallographic ordered water sites. Subramanian PS, et al. **Biopolymers** 1990 Mar–Apr;29(4–5):771–83

High levels of de novo methylation and altered chromatin structure at CpG islands in cell lines. Antequera F, et al. **Cell** 1990 Aug 10;62(3):503–14

Alternative chromatin structure at CpG islands. Tazi J, et al. **Cell** 1990 Mar 23;60(6):909–20

The influence of N-7 platination and methylation on the stability of deoxyguanosine and deoxyguanylyl-(3'-5')-deoxyguanosine. Försti A, et al. **Chem Biol Interact** 1990;74(3):253–61

32P-postlabelling of 7-methyl-dGMP ring-opened 7-methyl-dGMP and platinated dGpdG. Hemminki K, et al. **Chem Biol Interact** 1990;74(1–2):45–54

Inactivation of the HIV LTR by DNA CpG methylation:

evidence for a role in latency. Bednarik DP, et al. **EMBO J** 1990 Apr;9(4):1157–64

Proton magnetic resonance spectroscopic analysis of diadenosine 5',5"'-polyphosphates. Mayo KH, et al. **FEBS Lett** 1990 Jun 4;265(1–2):97–100

Conformations of deoxydinucleoside phosphates containing pyrimidine–pyrimidine photodimers. Rao SN, et al. **Indian J Biochem Biophys** 1990 Jun;27(3):130–5

Variability in the geometry of RNA double helices generated from dinucleoside building–blocks. Aggarwal A, et al. **J Biomol Struct Dyn** 1985 Jun;2(6):1235–43

Visualization of drug–nucleic acid interactions at atomic resolution. IX. Structures of two N,N–dimethylproflavine: 5–iodocytidylyl (3'–5') guanosine crystalline complexes. Bhandary KK, et al. **J Biomol Struct Dyn** 1984 Mar; 1(5):1195–217

Visualization of drug–nucleic acid interactions at atomic resolution. VIII. Structures of two ethidium/dinucleoside monophosphate crystalline complexes containing ethidium: cytidylyl(3'–5') guanosine. Jain SC, et al. **J Biomol Struct Dyn** 1984 Mar;1(5):1179–94

Visualization of drug–nucleic acid interactions at atomic resolution. VII. Structure of an ethidium/dinucleoside monophosphate crystalline complex, ethidium: uridylyl(3'–5') adenosine. Jain SC, et al. **J Biomol Struct Dyn** 1984 Mar;1(5):1161–77

Structural and conformational studies on deoxyguanosyl–3',5'–deoxyadenosine monophosphate and its ethyl phosphotriester analogs—left–handed dimers. Kan LS, et al. **J Biomol Struct Dyn** 1987 Apr;4(5):785–96

Conformational characteristics of mixed sugar puckered deoxydinucleoside triphosphate units d–pCpGp and d–pGpCp from energy minimization studies. Ponnuswamy PK, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):781–800

Crystal and molecular structure of the ammonium salt of the dinucleoside monophosphate d(CpG). Ramakrishnan B, et al. **J Biomol Struct Dyn** 1988 Dec;6(3):511–23

Base pair buckling can eliminate the interstrand purine clash at the CpG steps in B–DNA caused by the base pair propeller twisting. Sponer J, et al. **J Biomol Struct Dyn** 1990 Jun;7(6):1211–20

Use of a HpaII–polymerase chain reaction assay to study DNA methylation in the Pgk–1 CpG island of mouse embryos at the time of X–chromosome inactivation. Singer–Sam J, et al. **Mol Cell Biol** 1990 Sep;10(9):4987–9

In vitro methylation of CpG–rich islands. Carotti D, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9219–29

Molecular structure of deoxycytidyl–3'–methylphosphonate (RP) 5'–deoxyguanidine, d[Cp(CH3)G]. A neutral dinucleotide with Watson–Crick base pairing and a right handed helical twist. Han F, et al. **Nucleic Acids Res** 1990 May 11;18(9):2759–67

Prediction of oligonucleotide frequencies based upon dinucleotide frequencies obtained from the nearest neighbor analysis. Hong J. **Nucleic Acids Res** 1990 Mar 25;18(6):1625–8

The solution structure of the intramolecular photoproduct of d(TpA) derived with the use of NMR and a combination of distance geometry and molecular dynamics. Koning TM, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):277–84

Diastereomeric dinucleoside–methylphosphonates: determination of configuration with the 2–D NMR ROESY technique. Löschner T, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5083–8

The use of 5'–phospho–2 deoxyribocytidylylriboadenosine as a facile route to chemical aminoacylation of tRNA. Robertson SA, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):9649–60

Effect of CpG–rich sequences in transformation and tumorigenesis by polyomavirus. Renzo A, et al. **Oncogene** 1989 Dec;4(12):1469–75

CpG islands in genes showing tissue–specific expression. Edwards YH. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;326(1235):207–15

A nuclear protein that binds preferentially to methylated DNA in vitro may play a role in the inaccessibility of methylated CpGs in mammalian nuclei. Meehan R, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1235):199–205

Hypermutability of CpG dinucleotides in the propeptide–encoding sequence of the human albumin gene. Brennan SO, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3909–13

The expected equilibrium of the CpG dinucleotide in vertebrate genomes under a mutation model. Sved J, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4692–6

ANALYSIS

Comparison of dinucleotide frequency and codon usage in Toxoplasma and Plasmodium: evolutionary implications. Johnson AM. **J Mol Evol** 1990 Apr;30(4):383–7

The mouse surfeit locus contains a cluster of six genes associated with four CpG–rich islands in 32 kilobases of genomic DNA. Huxley C, et al. **Mol Cell Biol** 1990 Feb; 10(2):605–14

Two classes of observed frequency for rare–cutter sites in CpG islands. Bird AP. **Nucleic Acids Res** 1989 Nov 25; 17(22):9485

CpG island clones from a deletion encompassing the gene for adenomatous polyposis coli. Varesco L, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10018–22

BIOSYNTHESIS

In vivo synthesis of adenylylated bis(5'–nucleosidyl) tetraphosphates (Ap4N) by Escherichia coli aminoacyl–tRNA synthetases. Brevet A, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8275–9

BLOOD

Platelet P1, P4–Di (adenosine–51) tetraphosphate (AP4A) in migraine patients before and during beta–adrenoceptor blockade. Winther K, et al. **Eur J Clin Invest** 1990 Jun; 20(3):336–8

CHEMICAL SYNTHESIS

Mechanism of action of the nitrosoureas—IV. Synthesis of the 2–haloethylnitrosourea–induced DNA cross–link 1–(3–cytosinyl),2–(1–guanyl)ethane. MacFarland JG, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):33–6

Synthesis and properties of dithymidine phosphate analogues containing 3'–thiothymidine. Cosstick R, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):829–35

General, regiocontrolled synthesis of unsymmetrically linked dinucleoside adenosine 2',3'–bis(phosphate)s. Hayakawa Y, et al. **Nucleic Acids Symp Ser** 1989;(21):103–4

Synthesis of dinucleoside phosphorodithioates from nucleoside phosphonodithioates. Porritt GM, et al. **Nucleic Acids Symp Ser** 1989;(21):55–6

GENETICS

CpG dinucleotides are mutation hot spots in phenylketonuria. Abadie V, et al. **Genomics** 1989 Nov;5(4):936–9

Linkage and sequence conservation of the X–linked genes DXS253E (P3) and DXS254E (GdX) in mouse and man. Filippi M, et al. **Genomics** 1990 Jul;7(3):453–7

A transcribed gene in an intron of the human factor VIII gene. Levinson B, et al. **Genomics** 1990 May;7(1):1–11

Frequency of abnormal human haemoglobins caused by C——T transitions in CpG dinucleotides. Perutz MF. **J Mol Biol** 1990 May 20;213(2):203–6

The incidence and distribution of CpG——TpG transitions in the coagulation factor IX gene. A fresh look at CpG mutational hotspots [published erratum appears in Nucleic Acids Res 1990 Jul 11;18(13):4051] Green PM, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3227–31

Dinucleotide repeat polymorphism at the D19S49 locus. Weber JL, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1927

Sex difference in methylation of single–copy genes in human meiotic germ cells: implications for X chromosome inactivation, parental imprinting, and origin of CpG mutations. Driscol DJ, et al. **Somat Cell Mol Genet** 1990 May;16(3):267–82

METABOLISM

Cooperative interactions in the binding of ethidium ion to the self–complementary ribodinucleoside monophosphates CpG and GpC. Coffey RL, et al. **Arch Biochem Biophys** 1990 Sep;281(2):191–7

Studies on some specific Ap4A–degrading enzymes with the use of various methylene analogues of P1P4–bis–(5',5"'–adenosyl) tetraphosphate. Guranowski A, et al. **Biochem J** 1989 Aug 15;262(1):241–4

Variation in intracellular P1P4–bis(5'–adenosyl) tetraphosphate (Ap4A) in virus–infected cells. Johnston DJ, et al. **Biochem J** 1990 Jun 15;268(3):791–3

A spectroscopic study of the binding of m7GTP and m7GpppG to human protein synthesis initiation factor 4E. Carberry SE, et al. **Biochemistry** 1989 Oct 3;28(20):8078–83

Significance of dinucleoside tetraphosphate production by cultured tumor cells exposed to the presence of ethanol. Meyer D, et al. **Biochimie** 1990 Jan;72(1):57–64

Analysis of methylation and distribution of CpG sequences on human active and inactive X chromosomes by in situ nick translation. Prantera G, et al. **Chromosoma** 1990 Apr; 99(1):18–23

Intracellular compartmentation of diadenosine tetraphosphate (Ap4A) and dTTP in rat liver. Andersson M, et al. **Int J Biochem** 1989;21(6):593–8

Diadenosine tetraphosphate (Ap4A) levels in HL–60 cells during differentiation into granulocytes and monocytes. Andersson M, et al. **Int J Biochem** 1990;22(6):665–8

CpG methylation of viral DNA in EBV–associated tumours. Allday MJ, et al. **Int J Cancer** 1990 Jun 15;45(6):1125–30

CpG frequency–dependence in the activity of eukaryotic DNA methyltransferase: in vitro methylation of CpG–rich islands. Carotti D, et al. **Ital J Biochem** 1989 Nov–Dec; 38(6):379A–382A

Hydrolysis of bis(5'–nucleosidyl) polyphosphates by Escherichia coli 5'–nucleotidase. Ruiz A, et al. **J Bacteriol** 1989 Dec;171(12):6703–9

Establishment of de novo DNA methylation patterns. Transcription factor binding and deoxycytidine methylation at CpG and non–CpG sequences in an integrated adenovirus promoter. Toth M, et al. **J Mol Biol** 1990 Aug 5;214(3):673–83

CpG methylation inhibits proenkephalin gene expression and binding of the transcription factor AP–2. Comb M, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3975–82

The restriction enzyme EheI (GGC/GCC) is sensitive to CpG methylation. Cooney CA. **Nucleic Acids Res** 1990 Jun 25;18(12):3667

Cloning, characterization, and expression in Escherichia coli of the gene coding for the CpG DNA methylase from Spiroplasma sp. strain MQ1(M.SssI). Renbaum P, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1145–52

Streptomyces ATP nucleotide 3'–pyrophosphokinase is also an ApppA nucleotide 2',3'–cyclic phosphokinase. Mukai J, et al. **Nucleic Acids Symp Ser** 1989;(21):37–8

De novo methylation of the MyoD1 CpG island during the establishment of immortal cell lines. Jones PA, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6117–21

PHARMACOLOGY

Repair of acetyl–aminofluorene modified pBR322 DNA in Xenopus laevis oocytes and eggs; effect of diadenosine tetraphosphate. Orfanoudakis G, et al. **Biochimie** 1990 Apr; 72(4):271–8

Effect of diadenosine polyphosphates on catecholamine secretion from isolated chromaffin cells. Castro E, et al. **Br J Pharmacol** 1990 Jun;100(2):360–4

Pig lung 5'–nucleotidase: effect of diadenosine 5',5"'–P1, P4–tetraphosphate and its related compounds. Itoh R, et al. **Int J Biochem** 1990;22(3):231–8

Single d(ApG)/cis–diamminedichloroplatinum(II) adduct–induced mutagenesis in Escherichia coli. Burnouf D, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6087–91

RADIATION EFFECTS

Quantitative conversion of the (6–4) photoproduct of TpdC to its Dewar valence isomer upon exposure to simulated sunlight. Taylor JS, et al. **Photochem Photobiol** 1990 Feb; 51(2):161–7

THERAPEUTIC USE

Ribonucleotide metabolism—fresh approaches to viral and cancer chemotherapy. Alderson T. **Biol Rev Camb Philos Soc** 1989 May;64(2):159–96 (185 ref.)

DINUCLEOSIDE TETRAPHOSPHATES see **DINUCLEOSIDE PHOSPHATES**

DINUCLEOSIDE TRIPHOSPHATES see **DINUCLEOSIDE PHOSPHATES**

DIOCTOPHYMA see **NEMATODA**

DIOCTYL SULFOSUCCINATES see under **SUCCINATES**

DIODONE see **IODOPYRACET**

DIOLEFINS see **ALKADIENES**

DIOSGENIN see under **SAPOGENINS**

DIOSMIN see under **BIOFLAVONOIDS**

DIOXANES see under **DIOXINS**

DIOXINS

Evaluation of potential transmission of 2,3,7,8–tetrachlorodibenzo–p–dioxin–contaminated incinerator emissions to humans via foods. Fries GF, et al. **J Toxicol Environ Health** 1990;29(1):1–43 (144 ref.)

ADVERSE EFFECTS

Serious errors in new volume on Agent Orange and dioxin. Hardell L. **Am J Ind Med** 1990;17(2):261–7

Dioxins and the Ah receptor. Silbergeld EK, et al. **Am J Ind Med** 1989;16(4):455–74 (66 ref.)

Chloracne. Clinical manifestations and etiology. Zugerman C. **Dermatol Clin** 1990 Jan;8(1):209–13 (34 ref.)

2,4–D, 2,4,5–T, and 2,3,7,8–TCDD: an overview. Lilienfeld DE, et al. **Epidemiol Rev** 1989;11:28–58 (161 ref.)

Incidence of chloracne among chemical workers potentially exposed to chlorinated dioxins. Bond GG, et al. **J Occup Med** 1989 Sep;31(9):771–4

Effect of reclassification of chloracne cases [letter] Bond GG, et al. **J Occup Med** 1990 May;32(5):423

Breastmilk, PCBs, dioxins and vitamin K deficiency: discussion paper. Koppe JG, et al. **J R Soc Med** 1989 Jul; 82(7):416–9 (33 ref.)

Diminished thymosin alpha–1 levels in persons exposed to 2,3,7,8–tetrachlorodibenzo–p–dioxin. Stehr–Green PA, et al. **J Toxicol Environ Health** 1989;28(3):285–95

Mortality in an area contaminated by TCDD following an industrial incident. Bertazzi PA, et al. **Med Lav** 1989 Jul–Aug;80(4):316–29

Cancer risks. War is unhealthy, US finds [news] Anderson GC. **Nature** 1990 Apr 5;344(6266):478

Agent Orange controversy [letter; comment] Bellett AJ. **Nature** 1990 Feb 15;343(6259):586 Comment on: Nature 1989 Nov 16;342(6247):217.

Agent Orange. 'Not guilty' verdict challenged [news] [see comments] Ewing T. **Nature** 1989 Nov 16;342(6247):217 Comment in: Nature 1990 Feb 15;343(6259):586.

Chlorinated dioxins and dibenzofurans in the environment—a hazard to public health? Vainio H, et al. **Scand J Work Environ Health** 1989 Dec;15(6):377–82

[Vinyl and dioxin—PVC (letter)] Carlsen AC, et al. **Ugeskr Laeger** 1990 Jul 23;152(30):2186–7 (Dan)

ANALYSIS

Dioxins and furans in the mother and possible effects on the fetus and newborn breast-fed baby. Koppe JG. **Acta Paediatr Scand Suppl** 1989;360:146–53

Effect of solvents on the photodegradation rates of octachlorodibenzo-p-dioxin. Hung LS, et al. **Bull Environ Contam Toxicol** 1990 Mar;44(3):380–6

Specific congener profiles of polychlorinated dibenzo-p-dioxins and dibenzofurans in blue mussel in Osaka Bay in Japan: aqueous solubilities of PCDDs and PCDFs. Miyata H, et al. **Bull Environ Contam Toxicol** 1989 Sep;43(3):342–9

Sources of dioxins and furans in British Columbia. Rottluff W, et al. **Can J Public Health** 1990 Mar–Apr;81(2):94–100

Anti-plasmin inhibitor. VI. Structure of phlorofucofuroeckol A, a novel phlorotannin with both dibenzo-1,4-dioxin and dibenzofuran elements, from Ecklonia kurome Okamura. Fukuyama Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Jan; 38(1):133–5

2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) persistence in the Seveso (Milan, Italy) soil. Cerlesi S, et al. **Ecotoxicol Environ Safety** 1989 Oct;18(2):149–64

Multiresidue procedures for the determination of chlorinated dibenzodioxins and dibenzofurans in a variety of foods using capillary gas chromatography–electron-capture detection. Jasinski JS. **J Chromatogr** 1989 Sep 15; 478(2):349–67

Estimation of human exposure from fish contaminated with dioxins and furans emitted by a resource-recovery facility. Goeden HM, et al. **Risk Anal** 1989 Sep;9(3):377–83

Indoor air contamination with polychlorinated dibenzo-p-dioxins and dibenzofurans. Mukerjee D, et al. **Toxicol Ind Health** 1989 Oct;5(5):731–45

Dioxin levels in adipose tissues of hospitalized women living in the south of Vietnam in 1984–89 with a brief review of their clinical histories. Phuong NT, et al. **Women Health** 1990;16(1):79–93

[Analytical methods for the determination of polychlorinated dibenzodioxins and dibenzofurans in human milk] Fürst P, et al. **Z Lebensm Unters Forsch** 1989 Oct;189(4):338–45 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

The mechanism of action of alpha-naphthoflavone as an inhibitor of 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced CYP1A1 gene expression. Merchant M, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):84–9

2,2',4,4',5,5'-hexachlorobiphenyl as a 2,3,7,8-tetrachlorodibenzo-p-dioxin antagonist in C57BL/6J mice. Biegel L, et al. **Toxicol Appl Pharmacol** 1989 Mar 1;97(3):561–71

6-substituted-1,3,8-trichlorodibenzofurans as 2,3,7,8-tetrachlorodibenzo-p-dioxin antagonists in the rat: structure activity relationships. Astroff B, et al. **Toxicology** 1989 Dec 15;59(3):285–96

BLOOD

Determination of underivatised efaroxan and idazoxan in blood plasma by capillary gas chromatography with mass-selective detection. Nichols JD, et al. **Analyst** 1989 Oct;114(10):1215–8

Comparison of polychlorinated dibenzodioxin levels with hepatic mixed-function oxidase induction in great blue herons. Bellward GD, et al. **J Toxicol Environ Health** 1990 May;30(1):33–52

CHEMICAL SYNTHESIS

Synthesis and antihypertensive properties of benzodioxane-pyridazinones and benzodioxane-dihydropyridazinones. Corsano S, et al. **Arch Pharm (Weinheim)** 1989 Nov;322(11):833–5

Improved synthetic routes to the novel thromboxane receptor antagonist ICI 192605: activity of synthetic 1,3-dioxane intermediates. Brown GR, et al. **J Pharm Pharmacol** 1990 Jan;42(1):53–5

[Synthesis and alpha-adrenolytic activities of 2-(1,4-benzodioxan-2-yl-methyl)-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline derivatives] Glusa E, et al. **Pharmazie** 1990 Jun; 45(6):408–10 (Eng. Abstr.) **(Ger)**

METABOLISM

Filtration assay for quantitation of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) specific binding to whole cells in culture. Dold KM, et al. **Anal Biochem** 1990 Jan;184(1):67–73

Determination of [3H]-2,3,7,8-tetrachlorodibenzo-p-dioxin in human feces to ascertain its relative metabolism in man. Wendling JM, et al. **Anal Chem** 1990 Apr 15;62(8):796–800

The hepatic Ah receptor for 2,3,7,8-tetrachlorodibenzo-p-dioxin: species differences in subunit dissociation. Denison MS, et al. **Arch Biochem Biophys** 1990 Mar;277(2):382–8

Characterization of the Ah receptor for 2,3,7,8-tetrachlorodibenzo-p-dioxin: use of chemical crosslinking and a monoclonal antibody directed against a 59-kDa protein associated with steroid receptors. Prokipcak RD, et al. **Arch Biochem Biophys** 1989 Nov 1; 274(2):648–58

Competitive binding of 7-substituted-2,3-dichlorodibenzo-p-dioxins with human placental ah receptor—a QSAR analysis. Golas CL, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):737–41

[3H]-idazoxan binds with high affinity to two sites on hamster adipocytes: an alpha 2-adrenoceptor and a non-adrenoceptor site. MacKinnon AC, et al. **Br J Pharmacol** 1989 Dec;98(4):1143–50

Differences in the regulation of [3H]idazoxan and [3H]yohimbine binding sites in the rabbit. Yakubu MA, et al. **Eur J Pharmacol** 1990 Feb 13;176(3):305–11

Ah receptor for 2,3,7,8-tetrachlorodibenzo-p-dioxin: ontogeny in chick embryo liver. Denison MS, et al. **J Biochem Toxicol** 1986 Sep;1(3):39–49

Photoaffinity labeling of the nuclear Ah receptor from mouse Hepa 1c1c7 cells using 2,3,7,8-[3H]tetrachlorodibenzo-p-dioxin. Landers JP, et al. **J Biol Chem** 1989 Nov 5;264(31):18463–71

Activation of the dioxin and glucocorticoid receptors to a DNA binding state under cell-free conditions. Nemoto T, et al. **J Biol Chem** 1990 Feb 5;265(4):2269–77

Imidazoline-guanidinium receptive site in renal proximal tubule: asymmetric distribution, regulation by cations and interaction with an endogenous clonidine displacing substance. Coupry I, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):293–9

New tools for human fat cell alpha-2A adrenoceptor characterization. Identification on membranes and on intact cells using the new antagonist [3H]RX821002. Galitzky J, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):312–9

Alpha-2 adrenoceptor in rat jejunum epithelial cells: characterization with [3H]RX821002 and distribution along the villus-crypt axis. Paris H, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):888–93

[3H]idazoxan binding to the ovine myometrium. Binding characteristics and changes due to steroid hormones. Vass-Lopez A, et al. **J Pharmacol Exp Ther** 1990 May; 253(2):819–24

Ligand-dependent interaction of the dioxin receptor with target DNA. Cuthill S, et al. **J Steroid Biochem** 1989; 34(1–6):375–7

Binding characteristics of 4S PAH-binding protein and Ah receptor from rats and mice. Raha A, et al. **J Toxicol Environ Health** 1990;29(4):339–55

The binding of transformed aromatic hydrocarbon (Ah) receptor to its DNA recognition site is not affected by metal depletion. Denison MS, et al. **Mol Cell Endocrinol** 1990 Feb 12;69(1):51–7

Binding of [3H]idazoxan and of its methoxy derivative [3H] RX821002 in human fat cells: [3H]idazoxan but not [3H] RX821002 labels additional non-alpha 2-adrenergic binding sites. Langin D, et al. **Mol Pharmacol** 1990 Jun; 37(6):876–85

Nonadrenergic [3H]idazoxan binding sites are physically distinct from alpha 2-adrenergic receptors. Michel MC, et al. **Mol Pharmacol** 1990 Jan;37(1):65–8

Accelerator mass spectrometry in biomedical dosimetry: relationship between low-level exposure and covalent binding of heterocyclic amine carcinogens to DNA. Turteltaub KW, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5288–92

Chemically induced hepatic cytosol from the Sprague-Dawley rat: evidence for specific binding of 2,3,7,8-tetrachlorodibenzo-p-dioxin to components kinetically distinct from the Ah receptor. Landers JP, et al. **Toxicol Lett** 1990 May;51(3):295–302

PHARMACOKINETICS

Pharmacokinetics and biological activity of 2,3,7,8-tetrachlorodibenzo-p-dioxin. 2. Pharmacokinetics in rats using a loading-dose/maintenance-dose regime with high doses. Krowke R, et al. **Arch Toxicol** 1989; 63(5):356–60

Oral idazoxan bioavailability in rat. Relevance of intestinal and hepatic first-pass effect. Vallès J, et al. **Drug Metab Dispos** 1989 Nov–Dec;17(6):673–6

Age-related changes in dermal absorption of 2,3,7,8-tetrachlorodibenzo-p-dioxin and 2,3,4,7,8-pentachlorodibenzofuran. Banks YB, et al. **Fundam Appl Toxicol** 1990 Jul;15(1):163–73

Tissue distribution, metabolism, and excretion of 14C-TCDD in a TCDD-susceptible and a TCDD-resistant rat strain. Pohjanvirta R, et al. **Pharmacol Toxicol** 1990 Feb; 66(2):93–100

A physiological pharmacokinetic description of the tissue distribution and enzyme-inducing properties of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the rat. Leung HW, et al. **Toxicol Appl Pharmacol** 1990 May;103(3):399–410

Pharmacokinetics of [125I]-2-iodo-3,7,8-trichlorodibenzo-p-dioxin in mice: analysis with a physiological modeling approach. Leung HW, et al. **Toxicol Appl Pharmacol** 1990 May;103(3):411–9

Development of a physiologically based pharmacokinetic model for risk assessment with 1,4-dioxane. Reitz RH, et al. **Toxicol Appl Pharmacol** 1990 Aug;105(1):37–54

Relative distribution of 2,3,7,8-tetrachlorodibenzo-p-dioxin in human hepatic and adipose tissues. Leung HW, et al. **Toxicol Lett** 1990 Feb;50(2–3):275–82

Cancer risk assessment for dioxane based upon a physiologically-based pharmacokinetic approach. Leung HW, et al. **Toxicol Lett** 1990 Apr;51(2):147–62

PHARMACOLOGY

Biochemical effects of GYKI-12 743. Bakonyi A, et al. **Acta Physiol Hung** 1990;75 Suppl:19–20

Idazoxan and CH-38083 affect gastric secretion by inhibiting alpha-2 adrenoceptors at vagal and sympathetic pathways. Del Tacca M, et al. **Acta Physiol Hung** 1990;75 Suppl:81–2

Study of the predominant vascular postsynaptic alpha-adrenergic blocking capacity of GYKI-12 743 in isolated organs and pithed rats. Horváth E, et al. **Acta Physiol Hung** 1990;75 Suppl:145–6

GYKI-12 743, a novel antihypertensive compound with special alpha-adrenergic blocking profile. Jaszlits L, et al. **Acta Physiol Hung** 1990;75 Suppl:155–6

Vascular and cardiac electrophysiological activity of GYKI-12 743 in isolated tissue preparations. Jednákovits A, et al. **Acta Physiol Hung** 1990;75 Suppl:157–8

2,3,7,8-Tetrachlorodibenzo-p-dioxin as an antiestrogen: effect on rat uterine peroxidase activity. Astroff B, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):485–8

NAD(P)H: quinone oxidoreductase (DT-diaphorase) in chick embryo liver. Comparison to activity in rat and guinea pig liver and differences in co-induction with 7-ethoxyresorufin deethylase by 2,3,7,8-tetrachlorodibenzo-p-dioxin. Spencer CB, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):327–35

Induction of cytochrome P450IA1 in rat hepatoma cell by polycyclic hydrocarbons and a dioxin. Xu LC, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1399–403

Effect of tetrachlorodibenzo-p-dioxin (TCDD) on the glucuronidation of retinoic acid in the rat. Bank PA, et al. **Biochim Biophys Acta** 1989 Oct 13;993(1):1–6

Effect of imidazolines on Na+ transport and intracellular pH in renal proximal tubule cells. Bidet M, et al. **Biochim Biophys Acta** 1990 May 9;1024(1):173–8

Characterization of MDL 73005EF as a 5-HT1A selective ligand and its effects in animal models of anxiety: comparison with buspirone, 8-OH-DPAT and diazepam. Moser PC, et al. **Br J Pharmacol** 1990 Feb;99(2):343–9

Activation by high intensity peripheral nerve stimulation of adrenergic and opioidergic inhibition of a spinal reflex in the decerebrated rabbit. Clarke RW, et al. **Brain Res** 1989 Dec 25;505(1):1–6

Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin and related compounds on the occupied nuclear estrogen receptor in MCF-7 human breast cancer cells. Harris M, et al. **Cancer Res** 1990 Jun 15;50(12):3579–84

Acquisition of aryl hydrocarbon hydroxylase inducibility by aromatic hydrocarbons in monolayer-cultured hepatocytes from nonresponsive mouse strains. Nemoto N, et al. **Cancer Res** 1990 Jun 1;50(11):3226–30

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) alters intrathymic T-cell development in mice. Lundberg K, et al. **Chem Biol Interact** 1990;74(1–2):179–93

Anti-plasmin inhibitor. V. Structures of novel dimeric eckols isolated from the brown alga Ecklonia kurome OKAMURA. Fukuyama Y, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2438–40

Regulation of cytochrome P1-450 gene expression in mouse hepatoma cells by 2,3,7,8-tetrachlorodibenzo-p-dioxin. Whitlock JP Jr, et al. **Drug Metab Rev** 1989;20(2–4):839–46

MDL 73005EF: partial agonist at the 5-HT1A receptor negatively linked to adenylate cyclase. Cornfield LJ, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):189–92

Discrimination between alpha 2-adrenoceptors and [3H]idazoxan-labelled non-adrenergic sites in rabbit white fat cells. Langin D, et al. **Eur J Pharmacol** 1990 Apr 25; 188(4–5):261–72

The alpha 2-adrenoceptor antagonists idazoxan and yohimbine can unmask the postsynaptic dopamine agonist effects of B-HT 920. Meltzer LT, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):105–7

Elucidation of cellular targets responsible for tetrachlorodibenzo-p-dioxin (TCDD)-induced suppression of antibody responses: II. The role of the T-lymphocyte. Dooley RK, et al. **Immunopharmacology** 1990 Jan–Feb; 19(1):47–58

Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) treatment in vivo on thymocyte functions in mice after activation in vitro. Lundberg K, et al. **Int J Immunopharmacol** 1990;12(4):459–66

2,3,7,8-Tetrachlorodibenzo-p-dioxin reduces high-affinity binding of epidermal growth factor to cell surface receptors in C3H 10T1/2 cells. Moriya M, et al. **J Biochem Toxicol** 1986 Dec;1(4):45–54

TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin) is a tight binding inhibitor of cytochrome P-450d. Voorman R, et al. **J Biochem Toxicol** 1989 Summer;4(2):105–9

2,3,7,8-Tetrachlorodibenzo-p-dioxin-inducible, Ah receptor-mediated bending of enhancer DNA. Elferink CJ, et al. **J Biol Chem** 1990 Apr 5;265(10):5718–21

Organization and function of a dioxin-responsive enhancer. Fisher JM, et al. **J Biol Chem** 1990 Jun 15;265(17):9676–81

The potential role of DNA methylation in the response to 2,3,7,8-tetrachlorodibenzo-p-dioxin. Shen ES, et al. **J Biol Chem** 1989 Oct 25;264(30):17754–8

Impairment of prothymocyte activity by 2,3,7,8-tetrachlorodibenzo-p-dioxin. Fine JS, et al. **J Immunol** 1990 Feb 15;144(4):1169–76

Hemicholinium-3 congeners as potential antagonists to organophosphate-induced toxicity. Cannon JG, et al. **J Med Chem** 1990 Feb;33(2):577–9

Involvement of alpha-2 adrenergic receptor subtypes in

hyperglycemia. Angel I, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):877–82

Actions of a newly synthesized nitro–compound, E–4701, on rabbit vascular smooth muscles. Satoh S, et al. **Jpn J Pharmacol** 1989 Nov;51(3):357–68

Induction of hepatic cytochrome P450 gene expression by 2,3,7,8–tetrachlorodibenzo–p–dioxin. Whitlock JP Jr, et al. **Mol Biol Med** 1989 Apr;6(2):169–78 (56 ref.)

Activation of transcription as a general mechanism of 2,3,7,8–tetrachlorodibenzo–p–dioxin action. Fisher JM, et al. **Mol Carcinog** 1989;1(4):216–21

2,3,7,8–Tetrachlorodibenzo–p–dioxin–inducible aryl hydrocarbon receptor–mediated change in CYP1A1 chromatin structure occurs independently of transcription. Durrin LK, et al. **Mol Cell Biol** 1989 Dec;9(12):5733–7

The role of alpha–2–adrenoceptors in the control of ACTH secretion; interaction with the opioid system. al–Damluji S, et al. **Neuroendocrinology** 1990 Jan;51(1):76–81

Spiroxatrine augments fluoxetine–induced reduction of ethanol intake by the P line of rats. McBride WJ, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):381–6

Different roles of alpha–noradrenergic receptor subtypes in regulating lordosis. Vincent PA, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):89–93

TCDD inhibits the support of B–cell development by the bursa of Fabricius. Nikolaidis E, et al. **Pharmacol Toxicol** 1990 Jul;67(1):22–6

2,3,7,8–Tetrachlorodibenzo–p–dioxin causes an extensive alteration of 17 beta–estradiol metabolism in MCF–7 breast tumor cells. Spink DC, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6917–21

The effects of TCDD on receptors for epidermal growth factor, glucocorticoid, and estrogen in Ah–responsive and –nonresponsive congenic mice and the effects of TCDD on estradiol metabolism in a liver tumor promotion model in female rats. Goldstein JA, et al. **Prog Clin Biol Res** 1990; 331:187–202

Idazoxan increases rough–and–tumble play, activity and exploration in juvenile rats. Siviy SM, et al. **Psychopharmacology (Berl)** 1990;100(1):119–23

Effects of TCDD on embryonic ureteric epithelial EGF receptor expression and cell proliferation. Abbott BD, et al. **Teratology** 1990 Jan;41(1):71–84

2,3,7,8–tetrachlorodibenzo–p–dioxin increases the potency of androgens and estrogens as feedback inhibitors of luteinizing hormone secretion in male rats. Bookstaff RC, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):212–24

Altered regulation of pituitary gonadotropin–releasing hormone (GnRH) receptor number and pituitary responsiveness to GnRH in 2,3,7,8–tetrachlorodibenzo–p–dioxin–treated male rats. Bookstaff RC, et al. **Toxicol Appl Pharmacol** 1990 Aug; 105(1):78–92

Aryl hydrocarbon hydroxylase activity levels in the hepatic microsomal fraction from MC– or TCDD–treated mice: a comparison between aromatic hydrocarbon responsive and non–responsive strains. Kiyohara C, et al. **Toxicol Lett** 1990 Jun;52(1):73–80

Effects of the alpha 2–adrenoceptor antagonists yohimbine and idazoxan on kidney function in intact and diabetes insipidus rats. Farjam A, et al. **Urol Int** 1989;44(5):255–9

[Comparison of the inducing effect of triphenyldioxan, bis–(dichloropyridyloxy)benzene and phenobarbital on the liver monooxygenase] Mishin VM, et al. **Biokhimiia** 1990 Jan;55(1):29–36 (Eng. Abstr.) **(Rus)**

[Benz(a)anthracene and 2,3,7,8–tetrachloro dibenzo(p)dioxin modulate mitogen–stimulated proliferation of lymphocytes] Lozovatskiĭ AL, et al. **Biull Eksp Biol Med** 1990 Jun; 109(6):569–71 (Eng. Abstr.) **(Rus)**

[Effect of drugs possessing antialcoholic activity on ethanol pharmacokinetics] Lelevich VV, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):85–8 (Eng. Abstr.) **(Rus)**

POISONING

Medical monitoring of dioxin clean–up workers. Assennato G, et al. **Am Ind Hyg Assoc J** 1989 Nov;50(11):586–92

Mechanism of the toxicity of 2,3,7,8–TCDD [letter] Rohleder F. **Derm Beruf Umwelt** 1990 May–Jun;38(3):94–5

Thirty–four–year mortality follow–up of BASF employees exposed to 2,3,7,8–TCDD after the 1953 accident. Zober A, et al. **Int Arch Occup Environ Health** 1990;62(2):139–57

2,3,7,8–tetrachlorodibenzo–p–dioxin–induced porphyria cutanea tarda among pediatric patients [letter; comment] Boyd AS, et al. **J Am Acad Dermatol** 1989 Dec; 21(6):1320–1 Comment on: J Am Acad Dermatol 1988 Nov;19(5 Pt 1):812–9.

Carcinogenicity and teratogenicity vs. psychogenicity: psychological characteristics associated with self–reported Agent Orange exposure among Vietnam combat veterans who seek treatment for substance abuse. Robinowitz R, et al. **J Clin Psychol** 1989 Sep;45(5):718–28

THERAPEUTIC USE

Idazoxan: a selective alpha 2–antagonist and effective sustained antidepressant in two bipolar depressed patients [letter] Osman OT, et al. **Arch Gen Psychiatry** 1989 Oct; 46(10):958–9

[The Ca2+ reactivity and the subunit composition of myocardial actomyosin during the pyromecaine and pyrroxan treatment of experimental ischemia] Kalfadzhian MA, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):27–30 (Eng. Abstr.) **(Rus)**

[Functional biochemical changes and their pharmacologic correction by pirroksan in renal ischemia] Shepotinovskiĭ VI, et al. **Patol Fiziol Eksp Ter** 1989 Jul–Aug;(4):24–7 (Eng. Abstr.) **(Rus)**

[Digestive enzyme activity during immobilization stress and its pharmacologic correction with adrenoblockaders] Shepotinovskiĭ VI, et al. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):49–52 (Eng. Abstr.) **(Rus)**

[Experience with the use of a new autonomic drug butyroxan in patients with gastroduodenal pathology and autonomic dysfunction] Gonchar NV, et al. **Pediatriia** 1990;(2):109–10 **(Rus)**

[Clinico–psychophysiologic evaluation of the effect of pirroksan on the recovery of work capacity in sailors having had viral hepatitis A] Lobzin IuV, et al. **Voen Med Zh** 1989 Nov;(11):55–6 **(Rus)**

TOXICITY

Immunotoxicity of 2,3,7,8–tetrachlorodibenzo–p–dioxin and related polychlorinated aromatic hydrocarbons in birds. Nikolaidis E. **Acta Pharm Nord** 1990;2(2):127–8

Genetic and molecular aspects of 2,3,7,8–tetrachlorodibenzo–p–dioxin action. Whitlock JP Jr. **Annu Rev Pharmacol Toxicol** 1990;30:251–77 (176 ref.)

Reproductive toxicity and pharmacokinetics of 2,3,7,8–tetrachlorodibenzo–p–dioxin. 1. Effects of high doses on the fertility of male rats. Chahoud I, et al. **Arch Toxicol** 1989;63(6):432–9

Reduced gluconeogenesis in 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD)–treated rats. Gorski JR, et al. **Arch Toxicol** 1990;64(1):66–71

Polyhalogenated dibenzo–p–dioxins and dibenzofurans and the immune system. 1. Effects on peripheral lymphocyte subpopulations of a non–human primate (Callithrix jacchus) after treatment with 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD). Neubert R, et al. **Arch Toxicol** 1990;64(5):345–59

Immuno–toxicology and –pharmacology. Neubert D, et al. **Braz J Med Biol Res** 1989;22(12):1457–73 (58 ref.)

Is 1,4–dioxane a genotoxic carcinogen? Kitchin KT, et al. **Cancer Lett** 1990 Aug;53(1):67–71

Inhibition of high–density growth arrest in human squamous carcinoma cells by 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD). Hébert CD, et al. **Carcinogenesis** 1990 Aug; 11(8):1335–42

Multifunctional receptor model for dioxin and related compound toxic action: possible thyroid hormone–responsive effector–linked site. McKinney JD. **Environ Health Perspect** 1989 Jul;82:323–36 (95 ref.)

Flow cytometric analysis of lymphocyte subpopulations in the spleen and thymus of mice exposed to an acute immunosuppressive dose of 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD). Kerkvliet NI, et al. **Environ Res** 1990 Aug;52(2):146–54

Effects of TCDD on vitamin A status and liver microsomal enzyme activities in a TCDD–susceptible and a TCDD–resistant rat strain. Pohjanvirta R, et al. **Food Chem Toxicol** 1990 Mar;28(3):197–203

Differential toxicity of 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD) in C57BL/6J mice congenic at the Ah Locus. Birnbaum LS, et al. **Fundam Appl Toxicol** 1990 Jul; 15(1):186–200

Characterization of the peak period of sensitivity for the induction of hydronephrosis in C57BL/6N mice following exposure to 2,3,7, 8–tetrachlorodibenzo–p–dioxin. Couture LA, et al. **Fundam Appl Toxicol** 1990 Jul;15(1):142–50

2,3,7,8–Tetrachlorodibenzo–p–dioxin pretreatment of female mice altered tissue distribution but not hepatic metabolism of a subsequent dose. Curtis LR, et al. **Fundam Appl Toxicol** 1990 Apr;14(3):523–31

Acute toxicity of perfluorodecanoic acid in C57BL/6 mice differs from 2,3,7,8–tetrachlorodibenzo–p–dioxin. Harris MW, et al. **Fundam Appl Toxicol** 1989 Nov;13(4):723–36

Role of the Ah locus in suppression of cytotoxic T lymphocyte activity by halogenated aromatic hydrocarbons (PCBs and TCDD): structure–activity relationships and effects in C57Bl/6 mice congenic at the Ah locus. Kerkvliet NI, et al. **Fundam Appl Toxicol** 1990 Apr;14(3):532–41

Effects of TCDD on the EGF receptor of XB mouse keratinizing epithelial cells. Kawamoto T, et al. **J Biochem Toxicol** 1989 Fall;4(3):173–82

Plasma concentrations of pituitary hormones in 2,3,7,8–tetrachlorodibenzo–p–dioxin–treated male rats. Moore RW, et al. **J Biochem Toxicol** 1989 Fall;4(3):165–72

Exposure to dioxins as a risk factor for soft tissue sarcoma: a population–based case–control study. Eriksson M, et al. **J Natl Cancer Inst** 1990 Mar 21;82(6):486–90

How toxic is 2,3,7,8–tetrachlorodibenzodioxin to humans? Kimbrough RD. **J Toxicol Environ Health** 1990 Aug; 30(4):261–71 (39 ref.)

Medical evaluation of subjects with known body levels of 2,3,7,8–tetrachlorodibenzo–p–dioxin. Webb KB, et al. **J Toxicol Environ Health** 1989;28(2):183–93

The boring story of Agent Orange already is outdated [letter; comment] Barr M. **Med J Aust** 1989 Sep 18;151(6):356 Comment on: Med J Aust 1989 May 15;150(10):602.

Agent Orange: veterans sue to force study [news] Anderson C. **Nature** 1990 Aug 9;346(6284):498

Studies on the role of lipid peroxidation in the acute toxicity of TCDD in rats. Pohjanvirta R, et al. **Pharmacol Toxicol** 1990 May;66(5):399–408

TCDD reduces serum melatonin levels in Long–Evans rats. Pohjanvirta R, et al. **Pharmacol Toxicol** 1989 Sep; 65(3):239–40

Comparative genetic mechanisms of 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD)–induced tumors. Greenlee WF, et al. **Prog Clin Biol Res** 1990; 331:177–86 (42 ref.)

Guidelines for the definition of environmental action alert thresholds for polychlorodibenzodioxins and polychlorodibenzofurans. di Domenico A. **Regul Toxicol Pharmacol** 1990 Feb;11(1):8–23

House fire: a source of dioxins [letter] Rao HV, et al. **Risk Anal** 1990 Mar;10(1):13

Rat embryonic palatal shelves respond to TCDD in organ culture. Abbott BD, et al. **Toxicol Appl Pharmacol** 1990 May;103(3):441–51

Selective inhibition of polymorphonuclear neutrophil activity by 2,3,7,8–tetrachlorodibenzo–p–dioxin. Ackermann MF, et al. **Toxicol Appl Pharmacol** 1989 Dec;101(3):470–80

Relative toxicity and tumor–promoting ability of 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD), 2,3,4,7,8–pentachlorodibenzofuran (PCDF), and 1,2,3,4,7,8–hexachlorodibenzofuran (HCDF) in hairless mice. Hébert CD, et al. **Toxicol Appl Pharmacol** 1990 Feb; 102(2):362–77

Influence of the Ah locus on the humoral immunotoxicity of 2,3,7,8–tetrachlorodibenzo–p–dioxin: evidence for Ah–receptor–dependent and Ah–receptor–independent mechanisms of immunosuppression. Kerkvliet NI, et al. **Toxicol Appl Pharmacol** 1990 Aug;105(1):26–36

Effects of 2,3,7,8–tetrachlorodibenzo–p–dioxin on I–compounds in hepatic DNA of Sprague–Dawley rats: sex–specific effects and structure–activity relationships. Randerath K, et al. **Toxicol Appl Pharmacol** 1990 Apr; 103(2):271–80

TCDD resistance is inherited as an autosomal dominant trait in the rat. Pohjanvirta R. **Toxicol Lett** 1990 Jan;50(1):49–56

Reappraisal of the findings on Agent Orange by the Australian Royal Commission. Steele EJ, et al. **Toxicol Lett** 1990 May;51(3):261–8 (34 ref.)

Marked alterations in retinoid homeostasis of Sprague–Dawley rats induced by a single i.p. dose of 10 micrograms/kg of 2,3,7,8–tetrachlorodibenzo–p–dioxin. Brouwer A, et al. **Toxicology** 1989 Oct 16;58(3):267–83

The central nervous system may be involved in TCDD toxicity. Pohjanvirta R, et al. **Toxicology** 1989 Oct 2; 58(2):167–74

Alteration of the acute toxicity of 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD) by estradiol and tamoxifen. Umbreit TH, et al. **Toxicology** 1989 Dec 1;59(2):163–9

Comparative effects of pair–feeding and 2,3,7,8–tetrachlorodibenzo–p–dioxin (TCDD) on various biochemical parameters in female rats. Wahba ZZ, et al. **Toxicology** 1989 Dec 15;59(3):311–23

[Dioxins, environment and health (published erratum appears in 1990 May 5;134(18):936)] Theelen RM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 31;134(13):627–31 **(Dut)**

DIOXOLANES see under **DIOXOLES**

DIOXOLES

The structure of stiripentol: 4,4 dimethyl–1–(3,4–methylenedioxyphenyl)–1–penten–3–ol–a novel antiepileptic drug. Lisgarten JN, et al. **Acta Crystallogr C** 1988 Nov 15;44 (Pt 11):1992–4

[Deuteration of dimethyl 4,4'–dimethoxy–5,6,5',6'–dimethylenedioxybiphenyl–2,2'–dicarboxylate (BDD): a remedy for chronic hepatitis] Tong Q. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Feb;12(1):42–5 (Eng. Abstr.) **(Chi)**

[The dissolution rate and physical dispersion state of preparations of biphenyl dimethyl dicarboxylate (DDB)] Gu SJ, et al. **Yao Hsueh Hsueh Pao** 1989;24(11):859–64 (Eng. Abstr.) **(Chi)**

ISOLATION & PURIFICATION

[Chemical structure of podocarpamide isolated from Zanthoxylum podocarpum Hemsl] Ren LJ, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):67–70 (Eng. Abstr.) **(Chi)**

METABOLISM

Anti–inflammatory properties of new bioisosteres of indomethacin synthesized from safrole which are sulindac analogues. Pereira EF, et al. **Braz J Med Biol Res** 1989; 22(11):1415–9

In vitro formation of an inhibitory complex between an isosafrole metabolite and rat hepatic cytochrome P–450 PB–B. Murray M, et al. **Drug Metab Dispos** 1989 Jul–Aug; 17(4):449–54

PHARMACOKINETICS

[Pharmacokinetic studies on actinodaphine hydrochloride in rabbits by UV secondary derivative spectroscopy] Xiang ZX, et al. **Yao Hsueh Hsueh Pao** 1989;24(5):387–90 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Food restriction prevents the loss of isosafrole inducible cytochrome P-450 mRNA and enzyme levels in aging rats. Horbach GJ, et al. **Biochem Int** 1990;20(4):725–30

Cholinergic mechanisms in the ventrolateral medullary depressor area. Murugaian J, et al. **Brain Res** 1989 Nov 6;501(2):355–63

Effects of polytherapy with phenytoin, carbamazepine, and stiripentol on formation of 4-ene-valproate, a hepatotoxic metabolite of valproic acid. Levy RH, et al. **Clin Pharmacol Ther** 1990 Sep;48(3):225–35

Capping of Con A receptors and actin distribution are influenced by disruption of microtubules in Dictyostelium discoideum. de Priester W, et al. **Eur J Cell Biol** 1990 Feb; 51(1):23–32

Studies on the effect of SCH-34826 and thiorphan on [Met5]enkephalin levels and release in rat spinal cord. Yaksh TL, et al. **Eur J Pharmacol** 1989 Aug 29; 167(3):367–73

Atrial natriuretic factor-potentiating and antihypertensive activity of SCH 34826. An orally active neutral metalloendopeptidase inhibitor. Sybertz EJ, et al. **Hypertension** 1990 Feb;15(2):152–61

Differences in induction of hepatic cytochrome P450 isozymes by mice in eight methylenedioxyphenyl compounds. Lewandowski M, et al. **J Biochem Toxicol** 1990 Spring;5(1):47–55

Safrole, eugenol and methyleugenol induce intrachromosomal recombination in yeast. Schiestl RH, et al. **Mutat Res** 1989 Dec;224(4):427–36

Effects of the enkephalinase inhibitor SCH 34826 on the sleep-waking cycle and EEG activity in the rat. Trampus M, et al. **Neuropharmacology** 1990 Mar;29(3):199–205 -

[Protective effects of biphenyl dimethyl dicarboxylate on damage in isolated rat hepatocytes induced by carbon tetrachloride and D-galactosamine] Fu T, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Apr;70(4):201–4, 16 (Eng. Abstr.) **(Chi)**

[The effect of biphenyl dimethyl dicarboxylate (DDB) on the fluidity of human erythrocyte membrane] Chen L, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):1–4 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

Pharmacological actions and clinical use of fructus schizandrae. Liu GT. **Chin Med J [Engl]** 1989 Oct; 102(10):740–9

Influence of the synthetic microtubule inhibitor erbulozole (P.I.N.N.) (R 55 104), a new tubulozole congener, and gamma irradiation on murine tumors in vivo. Distelmans W, et al. **Eur J Cancer Clin Oncol** 1989 Oct;25(10):1499–504

TOXICITY

A comparison of DNA adduct formation in white blood cells and internal organs of mice exposed to benzo[a]pyrene, dibenzo[c,g]carbazole, safrole and cigarette smoke condensate. Reddy MV, et al. **Mutat Res** 1990 May; 241(1):37–48

DIPALMITOYLLECITHIN see **1,2-DIPALMITOYLPHOSPHATIDYLCHOLINE**

1,2-DIPALMITOYLPHOSPHATIDYLCHOLINE

Effect of nicotinic acid on microviscosity in mixed liposomal system of lecithin and sphingomyelin. Bhattacharyya M, et al. **Arch Biochem Biophys** 1989 Dec;275(2):379–84

A quantitative infrared determination of acyl chain conformation in gramicidin/dipalmitoylphosphatidylcholine mixtures. Davies MA, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):85–90

A region-matched hydrophobic interaction between melittin and dimyristoylphosphatidylcholine in a ternary mixture of phosphatidylcholines. Ohki K. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):850–6

Mixtures of semisynthetic species of cerebroside sulfate with dipalmitoyl phosphatidylcholine. Thermotropic phase behavior and permeability. Boggs JM, et al. **Biochem Cell Biol** 1990 Jan;68(1):70–82

Raman spectroscopic studies of the packing properties of mixed dihexadecyl- and dipalmitoylphosphatidylcholine bilayer dispersions. Devlin MT, et al. **Biochemistry** 1989 Oct 31;28(22):8912–20

Phase equilibria of cholesterol/dipalmitoylphosphatidylcholine mixtures: 2H nuclear magnetic resonance and differential scanning calorimetry. Vist MR, et al. **Biochemistry** 1990 Jan 16; 29(2):451–64

Effect of high electrolyte concentration on the phase transition behaviour of DPPC vesicles: a spin label study. Bartucci R, et al. **Biochim Biophys Acta** 1990 Jun 27; 1025(2):117–21

13C CP-MAS study of the gel phases of 1,2-dipalmitoylphosphatidylcholine [published erratum appears in Biochim Biophys Acta 1990 Apr 30;1023(3):483] Bruzik KS, et al. **Biochim Biophys Acta** 1990 Mar 30; 1023(1):143–6

Phase structures and transitions in fully hydrated dicyltrehalose. Lis LJ, et al. **Biochim Biophys Acta** 1990 Jan 29;1021(2):201–4

The orientation of (-)-delta 9-tetrahydrocannabinol in DPPC bilayers as determined from solid-state 2H-NMR. Makriyannis A, et al. **Biochim Biophys Acta** 1989 Nov 17; 986(1):141–5

Infrared spectra of phospholipid membranes: interfacial dehydration by volatile anesthetics and phase transition. Tsai YS, et al. **Biochim Biophys Acta** 1990 Feb 28; 1022(2):245–50

Interaction of cyclosporin A with dipalmitoylphosphatidylcholine. Wiedmann TS, et al. **Biochim Biophys Acta** 1990 Mar 30;1023(1):12–8

Theory of thermal anomalies in the specific heat of lipid bilayers containing cholesterol. Ipsen JH, et al. **Biophys J** 1989 Oct;56(4):661–7

High-resolution electron density profiles reveal influence of fatty acids on bilayer structure. Katsaras J, et al. **Biophys J** 1990 Mar;57(3):649–55

Phase fluctuation in phospholipid membranes revealed by Laurdan fluorescence. Parasassi T, et al. **Biophys J** 1990 Jun;57(6):1179–86

Specific adhesion of glycophorin liposomes to a lectin surface in shear flow. Wattenbarger MR, et al. **Biophys J** 1990 Apr;57(4):765–77

Biophysical inhibition of synthetic lung surfactants. Holm BA, et al. **Chem Phys Lipids** 1990 Feb;52(3–4):243–50

Membrane-damaging action of ricin on DPPC and DPPC-cerebrosides assemblies. A Raman and FTIR analysis. Picquart M, et al. **Eur Biophys J** 1989;17(3):143–9

Dibucaine interaction with phospholipid vesicles. A resonance energy-transfer study. Coutinho A, et al. **Eur J Biochem** 1990 Apr 30;189(2):387–93

Effect of subtransition in 1,2-dipalmitoylphosphatidylcholine model membrane on the spin probe motion. Gollová J, et al. **FEBS Lett** 1989 Sep 25;255(2):354–7

Cyclic hexapeptides bearing carboxyl groups. Interaction with metal ions and lipid membrane. Ozeki E, et al. **Int J Pept Protein Res** 1989 Aug;34(2):97–103

Approaches to the complete determination of the rotation axes and flexibility in the methylene segments of phospholipids: deuterium, carbon-13, and proton NMR studies of dipalmitoyl phosphatidyl choline. Engel AK, et al. **J Biomol Struct Dyn** 1983 Oct;1(1):319–35

Effect of divalent cations on the structure of dipalmitoylphosphatidylcholine and phosphatidylcholine/phosphatidylglycerol bilayers: an 2H-NMR study. Zidovetzki R, et al. **Membr Biochem** 1989; 8(3):177–86

Quantum yield of production of singlet molecular oxygen (1 delta g) in aqueous dispersions of small unilamellar lipid vesicles. A time-resolved near-IR phosphorescence study. Nonell S, et al. **Photochem Photobiol** 1990 May;51(5):551–6

Anesthesia cutoff phenomenon: interfacial hydrogen bonding. Chiou JS, et al. **Science** 1990 May 4;248(4955):583–5

ANALYSIS

Encapsulation of drugs by lyophilized empty dipalmitoylphosphatidylcholine liposomes: effect of calcium ion. Jizomoto H, et al. **Chem Pharm Bull (Tokyo)** 1989 Nov;37(11):3066–9

Effect of carnitine on foetal rat lung dipalmitoyl phosphatidylcholine content and lung morphology. Carnitine and lung surfactant, I. Lohninger A, et al. **J Clin Chem Clin Biochem** 1990 May;28(5):313–8

Disaturated phosphatidylcholine in rabbit eustachian tube surfactant. Mira E, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(3):174–9

[Dynamic measurement of surface tension versus gas chromatography dipalmitoylphosphatidylcholine analysis of amniotic fluid; a comparison of a bedside method with a highly specialized surfactant analysis] Heytmanek G, et al. **Z Geburtshilfe Perinatol** 1990 Mar-Apr;194(2):65–9 (Eng. Abstr.) **(Ger)**

METABOLISM

Secretagogues for lung surfactant increase lung uptake of alveolar phospholipids. Fisher AB, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L248–52

Metabolism of intratracheally administered unsaturated phosphatidylcholines in adult rabbits. Lewis J, et al. **Biochim Biophys Acta** 1989 Oct 17;1005(3):277–81

Orientation studies of hydrated dipalmitoylphosphatidylcholine multibilayers by polarized FTIR-ATR spectroscopy. Okamura E, et al. **Biochim Biophys Acta** 1990 Jun 11;1025(1):94–8

Production of diacylglycerol, an activator of protein kinase C, by human intestinal microflora. Morotomi M, et al. **Cancer Res** 1990 Jun 15;50(12):3595–9

Calcium ion influence on thermotropic behaviour of dipalmitoylphosphatidylcholine-vitamin D3 systems. Castelli F, et al. **Chem Phys Lipids** 1990 Jan;52(2):129–38

Pulse NMR study of the interaction of calcium ion with dipalmitoylphosphatidylcholine lamellae. Shibata T. **Chem Phys Lipids** 1990 Mar;53(1):47–52

Interaction of human apolipoprotein A-I with dipalmitoylphosphatidylcholine in vesicular and micellar complexes. Bae YS, et al. **J Biochem (Tokyo)** 1989 Dec; 106(6):1019–25

Muscarinic acetylcholine receptor regulates phosphatidylcholine phospholipase D in canine brain. Qian Z, et al. **J Biol Chem** 1989 Dec 25;264(36):21720–4

Impact of C-reactive protein (CRP) on surfactant function. Li JJ, et al. **J Trauma** 1989 Dec;29(12):1690–7

PHARMACOLOGY

Dipalmitoylphosphatidylcholine (L-alpha-lecithin) stimulates phospholipase A2 activity in human amnion. Ohtsuka T, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):328–35

Enhancement of hyperthermic damage on M14 melanoma cells by liposome pretreatment. Laudonio N, et al. **Cancer Res** 1990 Aug 15;50(16):5119–26

Gastric protective activity of mixtures of saturated polar and neutral lipids in rats. Lichtenberger LM, et al. **Gastroenterology** 1990 Aug;99(2):311–26

[Clearance effect of 3H-cholesterol by Apo-AI/DPPC liposome from cultured SMC of rabbits and tree shrew] Cai CB. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Mar; 19(1):12–5 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

SIDS, surfactant, and temperature [letter] Talbert DG. **Lancet** 1990 Sep 15;336(8716):690

THERAPEUTIC USE

[Respiratory distress of the newborn infant. Use of artificial surfactant in the prevention and management of neonatal respiratory distress] Bancalari E. **Rev Chil Obstet Ginecol** 1987;52(6):359–63 **(Spa)**

DIPEPTIDASES

ANALYSIS

Human cytosolic carnosinase: evidence of identity with prolinase, a non-specific dipeptidase. Lenney JF. **Biol Chem Hoppe Seyler** 1990 Feb;371(2):167–71

ANTAGONISTS & INHIBITORS

Studies on new dehydropeptidase inhibitors. I. Taxonomy, fermentation, isolation and physico-chemical properties. Hashimoto S, et al. **J Antibiot (Tokyo)** 1990 Jan;43(1):29–37

Studies on new dehydropeptidase inhibitors. III. Biological properties of WS1358A1. Hashimoto S, et al. **J Antibiot (Tokyo)** 1990 Mar;43(3):281–5

Studies on new dehydropeptidase inhibitors. II. Structural elucidation and synthesis of WS1358A1 and B1. Takase S, et al. **J Antibiot (Tokyo)** 1990 Jan;43(1):38–42

Studies on new dehydropeptidase inhibitors. IV. Chemical transformation of WS1358 compounds and an improved synthesis of WS1358A1. Uchida I, et al. **J Antibiot (Tokyo)** 1990 Apr;43(4):344–51

Competitive inhibition of N-acetylated-alpha-linked acidic dipeptidase activity by N-acetyl-L-aspartyl-beta-linked L-glutamate. Serval V, et al. **J Neurochem** 1990 Jul; 55(1):39–46

DEFICIENCY

Iminodipeptiduria: a genetic defect in recycling collagen; a method for determining prolidase in erythrocytes. Jackson SH, et al. **Can Med Assoc J** 1975 Oct 18;113(8):759, 762–3

Liquid chromatography-mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency. Kodama H, et al. **J Chromatogr** 1990 May 18;527(2):279–88

Biochemical basis of prolidase deficiency. Polypeptide and RNA phenotypes and the relation to clinical phenotypes. Endo F, et al. **J Clin Invest** 1990 Jan;85(1):162–9

[Leg ulcers and prolidase deficiency] Moulonguet I, et al. **Ann Dermatol Venereol** 1989;116(11):792–4 **(Fre)**

[Prolidase deficiency] Endo F. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):523–5 **(Jpn)**

GENETICS

Peptidase D gene (pepD) of Escherichia coli K-12: nucleotide sequence, transcript mapping, and comparison with other peptidase genes. Henrich B, et al. **J Bacteriol** 1990 Aug;172(8):4641–51

Primary structure of human microsomal dipeptidase deduced from molecular cloning. Adachi H, et al. **J Biol Chem** 1990 Mar 5;265(7):3992–5

Identification of membrane anchoring site of human renal dipeptidase and construction and expression of a cDNA for its secretory form. Adachi H, et al. **J Biol Chem** 1990 Sep 5;265(25):15341–5

Structural organization of the gene for human prolidase (peptidase D) and demonstration of a partial gene deletion in a patient with prolidase deficiency. Tanoue A, et al. **J Biol Chem** 1990 Jul 5;265(19):11306–11

A single nucleotide change in the prolidase gene in fibroblasts from two patients with polypeptide positive prolidase deficiency. Expression of the mutant enzyme in NIH 3T3 cells. Tanoue A, et al. **J Clin Invest** 1990 Jul;86(1):351–5

Deduced amino acid sequence of human prolidase and molecular analyses of prolidase deficiency. Endo F, et al. **J Inherited Metab Dis** 1989;12(3):351–4

ISOLATION & PURIFICATION

Ectoenzymes of the kidney microvillar membrane. Isolation and characterization of the amphipathic form of renal dipeptidase and hydrolysis of its glycosyl-phosphatidylinositol anchor by an activity in plasma. Hooper NM, et al. **Biochem J** 1989 Aug 1; 261(3):811–8

Characterization of the glycosyl-phosphatidylinositol-anchored human renal dipeptidase reveals that it is more extensively glycosylated than the pig enzyme. Hooper NM, et al. **Biochem J** 1990 Jan 15;265(2):429–33

Phosphatidylinositol-glycan-tailed membrane proteins: the biochemistry of glycolipid anchors. Turner AJ, et al. **Biochem Soc Trans** 1989 Oct;17(5):864–6

Separation and characterization of two carnosine-splitting cytosolic dipeptidases from hog kidney (carnosinase and non-specific dipeptidase). Lenney JF. **Biol Chem Hoppe Seyler** 1990 May;371(5):433–40

Characterization of prolidase I and II from erythrocytes of a control, a patient with prolidase deficiency and her mother. Ohhashi T, et al. **Clin Chim Acta** 1990 Jan 31; 187(1):1–9

METABOLISM

In vitro activity of LJC10,627, a new carbapenem antibiotic with high stability to dehydropeptidase I. Ubukata K, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):994–1000

Glutathione-degrading capacities of liver and kidney in different species. Hinchman CA, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1131–5

Bioconversion of leukotriene D4 by lung dipeptidase. Campbell BJ, et al. **Biochim Biophys Acta** 1990 Jan 16; 1042(1):107–12

Seizures decrease regional enzymatic hydrolysis of N-acetyl-aspartylglutamate in rat brain. Meyerhoff JL, et al. **Brain Res** 1989 Dec 25;505(1):130–4

[Proteolytic activities of colonic mucosa] Hütter HJ, et al. **Z Med Lab Diagn** 1990;31(1):27–31 (Eng. Abstr.) **(Ger)**

DIPEPTIDES

Three conformers in a crystal of N-Ac-L-Leu-L-Tyr-OMe. Karle IL, et al. **Acta Crystallogr C** 1989 May 15;45 (Pt 5):791–5

N-benzyloxycarbonyl-L-aminosuccinyl-L-phenylalaninamide (Z-L-Asu-L-Phe-NH2). Mazzarella L, et al. **Acta Crystallogr C** 1988 May 15;44 (Pt 5):880–2

Structure of a peptide surrogate, tert-butoxycarbonylalanyl-psi(CH2S)-phenylalanine [Boc-Ala-psi(CH2S)-Phe-OH] Zanotti G, et al. **Acta Crystallogr C** 1988 Sep 15;44 (Pt 9):1576–9

Vibrational CD studies of the solution conformation of simple alanyl peptides as a function of pH. Zuk WM, et al. **Biopolymers** 1989 Nov;28(11):2025–44

Local interactions in peptides. 1H-1H, 13C-H coupling constants and calculations for the conformational analysis of N-acetyl-N^1-methylamides of aliphatic amino acids. Fermandjian S, et al. **Int J Pept Protein Res** 1990 May; 35(5):473–80

Conformational perturbations in retro-analogs of the tBuCO-Ala-Gly-NHiPr dipeptide. Crystal structure of the retro-dipeptide with a reversed Ala-Gly amide bond. Gomez EJ, et al. **Int J Pept Protein Res** 1989 Dec; 34(6):480–6

Enzymatic synthesis of dipeptide units of the D-D-configuration in aqueous media [published erratum appears in Int J Pept Protein Res 1990 Jun;35(6):574] Kempe M, et al. **Int J Pept Protein Res** 1990 Feb; 35(2):147–52

Structure and conformation of peptides involving prolyl residue. IV. L-Prolyl-L-leucine monohydrate. Panneerselvam K, et al. **Int J Pept Protein Res** 1990 May; 35(5):460–4

Similarity assessment and attribute scaling of sucrose and aspartame in grape drink. Christensen L, et al. **J Am Coll Nutr** 1990 Feb;9(1):44–7

A comparison of the CHARMM, AMBER and ECEPP potentials for peptides. II. Phi-psi maps for N-acetyl alanine N^1-methyl amide: comparisons, contrasts and simple experimental tests. Roterman IK, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):421–53

Transition metal complexes of L-cysteine containing di- and tripeptides. Cherifi K, et al. **J Inorg Biochem** 1990 Jan; 38(1):69–80

Conformation-activity relationship of sweet molecules. Comparison of aspartame and naphthimidazolesulfonic acids. Castiglione-Morelli MA, et al. **J Med Chem** 1990 Feb;33(2):514–20

High-potency dipeptide sweeteners. 2. L-aspartylfuryl-, thienyl-, and imidazolylglycine esters. Janusz JM, et al. **J Med Chem** 1990 Jun;33(6):1676–82

Occurrence and role of cis peptide bonds in protein structures. Stewart DE, et al. **J Mol Biol** 1990 Jul 5; 214(1):253–60

ADMINISTRATION & DOSAGE

Comparative effects of fructose, aspartame, glucose, and water preloads on calorie and macronutrient intake. Rodin J. **Am J Clin Nutr** 1990 Mar;51(3):428–35

Safety of long-term large doses of aspartame. Leon AS, et al. **Arch Intern Med** 1989 Oct;149(10):2318–24

Lack of effect of chronic aspartame ingestion on aminergic receptors in rat brain. Reilly MA, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4339–41

Aspartame: ensuring safe intake levels in children [letter; comment] **J Am Diet Assoc** 1990 Mar;90(3):360, 362, 364 Comment on: J Am Diet Assoc 1989 Jun;89(6):831–3.

Renin inhibition with A-64662: effect on blood pressure and hormonal response in man. Bursztyn M, et al. **J Hypertens Suppl** 1989 Dec;7(6):S306–7

Effects of aspartame and sucrose on hunger and energy intake in humans. Mattes R. **Physiol Behav** 1990 Jun;47(6):1037–44

Aspartame ingested without tasting inhibits hunger and food intake. Rogers PJ, et al. **Physiol Behav** 1990 Jun; 47(6):1239–43

Glutamine-containing dipeptides as infusion substrates in the septic state. Karner J, et al. **Surgery** 1989 Nov; 106(5):893–900

ADVERSE EFFECTS

Aspartame: clinical update [letter; comment] Butchko HH. **Conn Med** 1990 Apr;54(4):235–6 Comment on: Conn Med 1989 Jul;53(7):395–400.

ANALYSIS

Enzymic method for the spectrophotometric determination of aspartame in beverages. Hamano T, et al. **Analyst** 1990 Apr;115(4):435–8

Confirmation of D-aspartic acid in the novel dipeptide beta-aspartylglycine isolated from tissue extract of Aplysia kurodai. Sato M, et al. **Biochem J** 1989 Oct 15; 263(2):617–20

Structure and conformation of peptides containing the sulphonamide junction. I. N-acetyl-tauryl-L-phenylalanine methyl ester. Calcagni A, et al. **Int J Pept Protein Res** 1989 Oct;34(4):319–24

Analysis of carnosine, homocarnosine, and other histidyl derivatives in rat brain. O'Dowd JJ, et al. **J Neurochem** 1990 Aug;55(2):446–52

Distribution of N-acetylaspartate, N-acetylaspartylglutamate, free glutamate and aspartate following complete mesencephalic transection in rat neuraxis. D'Arcangelo P, et al. **Neurosci Lett** 1990 Jun 22; 114(1):82–8

Cellular localization of carnosine-like and anserine-like immunoreactivities in rodent and avian central nervous system. Biffo S, et al. **Neuroscience** 1990;35(3):637–51

[Immunohistochemical study on the primary olfactory neuron of rat and suncus] Ashihara M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Dec;92(12):2039–46 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

N-bromoacetyl-D-leucylglycine. An affinity label for neutral endopeptidase 24.11. Bateman RC Jr, et al. **J Biol Chem** 1990 May 25;265(15):8365–8

BIOSYNTHESIS

Kinetic study of nucleophile specificity in dipeptide synthesis catalyzed by clostridiopeptidase B. Fortier G, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):317–21

Optimization of enzyme-mediated peptide bond formation. Schwarz A, et al. **Biotechnol Appl Biochem** 1990 Apr; 12(2):188–95

Collagen cross-link synthesis in cultured vascular endothelium. Levene CI, et al. **Br J Exp Pathol** 1989 Dec; 70(6):621–6

BLOOD

Characterization of peptide fluxes into human erythrocytes. A proton-n.m.r. study. Odoom JE, et al. **Biochem J** 1990 Apr 1;267(1):141–7

High-performance liquid chromatographic determination in human plasma of a new immunomodulatory agent with a peptidyl-hypoxanthine structure (RM 06). Montaldo PG, et al. **J Chromatogr** 1990 Feb 23;525(2):471–7

CHEMICAL SYNTHESIS

Synthesis and angiotensin converting enzyme inhibitory activity of N-carboxymethyldipeptides with an omega-aminoalkyl group. Saito S, et al. **Arzneimittelforschung** 1990 Mar;40(3):257–60

Synthesis and angiotensin converting enzyme inhibitory activity of N-carboxymethyldipeptides with omega-(4-piperidyl)alkyl group. Waga T, et al. **Arzneimittelforschung** 1990 Apr;40(4):407–13

Angiotensin-converting enzyme inhibitors: synthesis and structure-activity relationships of potent N-benzyloxycarbonyl tripeptide inhibitors. Sawayama T, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2417–22

Psi[CH2O] pseudodipeptide synthesis. An improved approach which allows absolute configuration determination. Breton P, et al. **Int J Pept Protein Res** 1990 Apr;35(4):346–51

Synthesis and characterization of 1,1,4,4-butanetetracarboxylic acid. A di-gamma-carboxyglutamic acid (GlaGla) analogue. Cabaniss SE, et al. **Int J Pept Protein Res** 1990 Jul; 36(1):79–85

High potency dipeptide sweeteners. 1. L-aspartyl-D-phenylglycine esters. Janusz JM, et al. **J Med Chem** 1990 Mar;33(3):1052–61

In the search for new anticancer drugs. XXII: Synthesis and anticancer evaluation of some dipeptides containing N-nitrosochloroethylamino and chloroethylamino moieties. Sosnovsky G, et al. **J Pharm Sci** 1990 Apr; 79(4):369–70

The synthesis and characteristics of adenylyl-(5'——N epsilon)-lysyl peptides. Juodka B, et al. **Nucleic Acids Symp Ser** 1989;(21):137–8

DIAGNOSTIC USE

Characterization of cardiac angiotensin converting enzyme (ACE) and in vivo inhibition following oral quinapril to rats. Fabris B, et al. **Br J Pharmacol** 1990 Jul;100(3):651–5

GENETICS

Clinical and biochemical characterization of antithrombin III Franconville, a variant with Pro 41 Leu mutation. de Roux N, et al. **Br J Haematol** 1990 Jun;75(2):222–7

The nucleotide sequence of tabtoxin resistance gene (ttr) of Pseudomonas syringae pv. tabaci. Anzai H, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1890

IMMUNOLOGY

Specific antibody response towards predicted epitopes of the epidermal growth factor receptor induced by a thermostable synthetic peptide adjuvant conjugate. Muller CP, et al. **Clin Exp Immunol** 1989 Dec;78(3):499–504

Production and characterization of monoclonal antibodies to N-acetyl-aspartyl-glutamate. Frondoza CG, et al. **J Histochem Cytochem** 1990 Apr;38(4):493–502

ISOLATION & PURIFICATION

The stereochemical resolution of the enantiomers of aspartame on an immobilized alpha-chymotrypsin HPLC chiral stationary phase: the effect of mobile-phase composition and enzyme activity. Jadaud P, et al. **Chirality** 1990;2(1):32–7

Isolation and characterization of new thiol protease inhibitors estatins A and B. Yaginuma S, et al. **J Antibiot (Tokyo)** 1989 Sep;42(9):1362–9

METABOLISM

Carnosine-like immunoreactivity in human olfactory mucosa. Sakai M, et al. **Acta Otolaryngol (Stockh)** 1990 May-Jun; 109(5–6):450–3

The histidine-containing dipeptides, carnosine and anserine: distribution, properties and biological significance. Boldyrev AA, et al. **Adv Enzyme Regul** 1990;30:175–94 (39 ref.)

Glycylsarcosine transport by epithelial cells isolated from chicken proximal cecum and rectum. Calonge ML, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G660–4

Low-affinity transport of pyroglutamyl-histidine in renal brush-border membrane vesicles. Skopicki HA, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):C971–5

Formation of N epsilon-(gamma-glutamyl)-lysine isodipeptide in Chinese-hamster ovary cells. Fesus L, et al. **Biochem J** 1989 Nov 1;263(3):843–8

Dependence of the P2-S2 stereochemical selectivity of papain on the nature of the catalytic-site chemistry. Quantification of selectivity in the catalysed hydrolysis of the enantiomeric N-acetylphenylalanylglycine 4-nitroanilides. Kowlessur D, et al. **Biochem J** 1990 Mar 15;266(3):653–60

Uptake of the cephalosporin, cephalexin, by a dipeptide transport carrier in the human intestinal cell line, Caco-2. Dantzig AH, et al. **Biochim Biophys Acta** 1990 Sep 7; 1027(3):211–7

Biodegradability of synthetic branched polypeptide with poly(L-lysine) backbone. Hudecz F, et al. **Biol Chem Hoppe Seyler** 1989 Sep;370(9):1019–26

Human cytosolic carnosinase: evidence of identity with prolinase, a non-specific dipeptidase. Lenney JF. **Biol Chem Hoppe Seyler** 1990 Feb;371(2):167–71

Seizures decrease regional enzymatic hydrolysis of N-acetyl-aspartylglutamate in rat brain. Meyerhoff JL, et al. **Brain Res** 1989 Dec 25;505(1):130–4

Selective release of N-acetylaspartylglutamate from rat optic nerve terminals in vivo. Tsai G, et al. **Brain Res** 1990 Jun 4;518(1–2):313–6

Effect of H1 and H2 receptor blockers on mobilization of myocardial carnosine to histamine during compound 48/80-induced shock in young rats. Fitzpatrick JC, et al. **Circ Shock** 1990 Feb;30(2):145–53

Effect of breed of horse on muscle carnosine concentration. Bump KD, et al. **Comp Biochem Physiol [A]** 1990; 96(1):195–7

Involvement of gamma-glutamyl peptides in osmoadaptation of Escherichia coli. McLaggan D, et al. **J Bacteriol** 1990 Jul;172(7):3631–6

Kinetic evidence for a common transporter for glycylsarcosine and phenylalanylprolylalanine in renal brush-border membrane vesicles. Tiruppathi C, et al. **J Biol Chem** 1990 Sep 5;265(25):14870–4

The action of leucyl-leucine methyl ester on cytotoxic lymphocytes requires uptake by a novel dipeptide-specific facilitated transport system and dipeptidyl peptidase I-mediated conversion to membranolytic products. Thiele

DL, et al. **J Exp Med** 1990 Jul 1;172(1):183–94

Interaction of the peptide CF3–Leu–Ala–NH–C6H4–CF3 (TFLA) with porcine pancreatic elastase. X-ray studies at 1.8 A. de la Sierra IL, et al. **J Mol Recognit** 1990 Feb; 3(1):36–44

Inborn errors of carnosine and homocarnosine metabolism. Gjessing LR, et al. **J Neural Transm Suppl** 1990;29:91–106

Comparison of transport characteristics of amino beta–lactam antibiotics and dipeptides across rat intestinal brush border membrane. Iseki K, et al. **J Pharm Pharmacol** 1989 Sep; 41(9):628–32

Effect of various chemical modifiers on H+ coupled transport of cephradine via dipeptide carriers in rabbit intestinal brush–border membranes: role of histidine residues. Kato M, et al. **J Pharmacol Exp Ther** 1989 Nov; 251(2):745–9

Glutamine–containing dipeptides in parenteral nutrition. Fürst P, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4 Suppl):118S–124S (54 ref.)

Metabolic basis for selecting glutamine–containing substrates for parenteral nutrition. Lochs H, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4 Suppl):114S–117S (27 ref.)

Phenylalanine and tyrosine metabolism in renal failure: dipeptides as tyrosine source. Druml W, et al. **Kidney Int Suppl** 1989 Nov;27:S282–6 (41 ref.)

Splanchnic, renal, and muscle clearance of alanylglutamine in man and organ fluxes of alanine and glutamine when infused in free and peptide forms. Lochs H, et al. **Metabolism** 1990 Aug;39(8):833–6

Nitrosation of aspartic acid, aspartame, and glycine ethylester. Alkylation of 4–(p–nitrobenzyl)pyridine (NBP) in vitro and binding to DNA in the rat. Meier I, et al. **Mutat Res** 1990 May;238(3):193–201

Autoradiography of angiotensin–converting enzyme in fixed and unfixed rat brain using the specific enzyme inhibitor [125I]351A or a polyclonal antibody and [125I]staphylococcal protein A. Correa FM, et al. **Neurosci Lett** 1990 Mar 14;110(3):244–8

Scavenging of singlet molecular oxygen by imidazole compounds: high and sustained activities of carboxy terminal histidine dipeptides and exceptional activity of imidazole–4–acetic acid. Hartman PE, et al. **Photochem Photobiol** 1990 Jan;51(1):59–66

Kinetics of glycylsarcosine transport by isolated chicken intestinal epithelial cells. Calonge ML, et al. **Rev Esp Fisiol** 1989 Dec;45(4):373–6

[Homocarnosine of the amniotic fluid as an indicator of fetal cerebral lesions] Iurovskiĭ SL, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):45–7 (Eng. Abstr.) **(Rus)**

[Hydrolysis of the isopeptide epsilon–(gamma–glutamyl)–lysine by destabilase from the medicinal leech Hirudo medicinalis] Baskova IP, et al. **Biokhimiia** 1990 May;55(5):771–5 (Eng. Abstr.) **(Rus)**

[The effect of the delta–sleep peptide on the homocarnosine content of the brain in rats under the action of cold stress] Bondarenko TI, et al. **Fiziol Zh SSSR** 1989 Dec; 75(12):1788–90 **(Rus)**

[An increase in the brain homocarnosine level during alcohol intoxication] Kukharenko RI, et al. **Ukr Biokhim Zh** 1990 Jan–Feb;62(1):92–4 (Eng. Abstr.) **(Rus)**

[Various features of the initial stages of assimilation of isotope–labelled dipeptide] Samenkova NF, et al. **Vopr Pitan** 1989 Sep–Oct;(5):55–8 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Effect of sucrose on the metabolic disposition of aspartame. Stegink LD, et al. **Am J Clin Nutr** 1990 Aug;52(2):335–41

Glycyl–L–proline transport in rabbit enterocyte basolateral–membrane vesicles. Dyer J, et al. **Biochem J** 1990 Aug 1;269(3):565–71

Plasma and brain kinetics of large neutral amino acids and of striatum monoamines in rats given aspartame. Romano M, et al. **Food Chem Toxicol** 1990 May;28(5):317–21

Transport mechanisms of bestatin in rabbit intestinal brush–border membranes: role of H+/dipeptide cotransport system. Tomita Y, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):859–62

Mechanism of absorption of the dipeptide alpha–methyldopa–phe in intestinal brush–border membrane vesicles. Tsuji A, et al. **Pharm Res** 1990 Mar; 7(3):308–9

PHARMACOLOGY

Immunomodulator adamantylamide dipeptide antagonizes benzodiazepine–induced rota–rod deficit in mice. Celedová L, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):291–3

Behavioural effects of muramyl dipeptide and adamantylamide dipeptide in mice. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):127–9

The behavioural effects of benzodiazepine receptor ligands in mice are inhibited by adamantylamide dipeptide. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):293–4

The immunomodulators levamisole, muramyl dipeptide and adamantylamide dipeptide antagonize the antianxiety effect of diazepam. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):111–3

Effects of N–acetyl–aspartyl glutamic acid and sodium cromoglycate on leukotriene B4 secretion by human leukocytes. Goldschmidt PL, et al. **Allergy** 1990 Jul; 45(5):363–9

Effect of drinking soda sweetened with aspartame or high–fructose corn syrup on food intake and body weight. Tordoff MG, et al. **Am J Clin Nutr** 1990 Jun;51(6):963–9

Nutritional value and intestinal effects of dipeptides and tripeptides. Comparison with their issuing bovine plasma protein in rats. Rouanet JM, et al. **Ann Nutr Metab** 1990; 34(3):175–82

Aspartame: effect on lunch–time food intake, appetite and hedonic response in children. Anderson GH, et al. **Appetite** 1989 Oct;13(2):93–103

Effects of a new TRH analogue, YM–14673, on spontaneous motor activity in rats. Shimizu M, et al. **Arch Int Pharmacodyn Ther** 1989 Sep–Oct;301:100–11

Effects of YM–14673, a new TRH analogue, on responses to morphine in rodents. Yamamoto M, et al. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug;300:29–36

Pharmacological properties of the new non–sulfhydryl angiotensin converting enzyme inhibitor N–[8–amino–1(S)–carboxyoctyl]–L–alanyl–L–proline. Shirota M, et al. **Arzneimittelforschung** 1990 May; 40(5):515–9

Specific inhibitory conformation of dipeptides for chymotrypsin. Shimohigashi Y, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1460–6

The antioxidative properties of carnosine and other drugs. Chasovnikova LV, et al. **Biochem Int** 1990;20(6):1097–103

The pH–dependent conformational transition in glycogen phosphorylase b. The effect of carnosine and anserine on its activity. Severin SE, et al. **Biochem Int** 1990; 20(2):227–38

Carnosine as a potential scavenger of oxidants generated by stimulated neutrophils. Sharonov BP, et al. **Biochem Int** 1990;21(1):61–8

Carnosine, homocarnosine and anserine: could they act as antioxidants in vivo? Aruoma OI, et al. **Biochem J** 1989 Dec 15;264(3):863–9

The use of benzyloxycarbonyl[125I]iodotyrosylalanyldiazomethane as a probe for active cysteine proteinases in human tissues. Mason RW, et al. **Biochem J** 1989 Nov 1;263(3):945–9

pH dependence of the inhibition of chymotrypsin by a peptidyl trifluoromethyl ketone. Brady K, et al. **Biochemistry** 1989 Nov 14;28(23):9066–70

Cytotoxicity and effect of glycyl–D–phenylalanine–2–naphthylamide on lysosomes. Jadot M, et al. **Biochim Biophys Acta** 1990 Aug 24; 1027(2):205–9

Differential effects of excitatory amino acid antagonists on dorsal horn nociceptive neurones in the rat. Dickenson AH, et al. **Brain Res** 1990 Jan 1;506(1):31–9

Local enkephalins tonically modulate dopamine release in the striatum: a microdialysis study. Dourmap N, et al. **Brain Res** 1990 Jul 30;524(1):153–5

Evidence for spinal N–methyl–D–aspartate receptor involvement in prolonged chemical nociception in the rat. Haley JE, et al. **Brain Res** 1990 Jun 4;518(1–2):218–26

Treatment of donor cells with L–leucyl–L–leucine methyl ester prevents induction of graft–vs–host–like reaction in [lpr/lpr——+/+] chimera. Okuyama H, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):26–39

Collagen biosynthesis anomalies in prolidase deficiency: effect of glycyl–L–proline on the degradation of newly synthesized collagen. Chamson A, et al. **Clin Physiol Biochem** 1989;7(3–4):128–36

A comparative study of synthetic carnosine analogs as antioxidants. Boldyrev AA, et al. **Comp Biochem Physiol [B]** 1989;94(2):237–40

Effects of L–1–methyl–histidine and the muscle dipeptides carnosine and anserine on the activities of muscle calpains. Johnson P, et al. **Comp Biochem Physiol [B]** 1989;94(1):45–8

Positive inotropic effect of carcinine in the isolated perfused guinea pig heart. Brotman DN, et al. **Crit Care Med** 1990 Mar;18(3):317–21

The effect of aspartame on the activity of rat liver xenobiotic–metabolizing enzymes. Tutelyan VA, et al. **Drug Metab Dispos** 1990 Mar–Apr;18(2):223–5

Studies on the effect of SCH–34826 and thiorphan on [Met5]enkephalin levels and release in rat spinal cord. Yaksh TL, et al. **Eur J Pharmacol** 1989 Aug 29; 167(3):367–73

Central dopaminergic actions of YM–14673, a new TRH analogue, in rodents. Yamamoto M, et al. **Eur J Pharmacol** 1990 May 16;180(2–3):319–24

Contribution of the C–terminal dipeptide of transforming growth factor–alpha to its activity: biochemical and pharmacologic profiles. Yang SG, et al. **Eur J Pharmacol** 1990 Jun 12;188(6):289–300

Glorin–regulated protein synthesis in Polyspondylium violaceum. Kopachik W. **Exp Cell Res** 1990 Feb; 186(2):394–7

Glutathione metabolism at the blood–cerebrospinal fluid barrier. Anderson ME, et al. **FASEB J** 1989 Nov; 3(13):2527–31

Antibacterial activity of phosphono dipeptides based on 1–amino–1–methylethanephosphonic acid. Zboińska E, et al. **FEMS Microbiol Lett** 1990 Jun 15;58(1):23–8

Prolonged duration of blood pressure response to enalkiren, the novel dipeptide renin inhibitor, in essential hypertension. Boger RS, et al. **Hypertension** 1990 Jun;15(6 Pt 2):835–40

ES–8891, an orally active inhibitor of human renin. Kokubu T, et al. **Hypertension** 1990 Jun;15(6 Pt 2):909–13

Atrial natriuretic factor–potentiating and antihypertensive activity of SCH 34826. An orally active neutral metalloendopeptidase inhibitor. Sybertz EJ, et al. **Hypertension** 1990 Feb;15(2):152–61

Generalized toxicity of L–leucyl–leucine–methyl ester for lymphocyte functions. Mowat AM, et al. **Immunology** 1990 Apr;69(4):564–9

Retrospectives and perspectives on the biological activity of histidine–containing dipeptides. Boldyrev AA. **Int J Biochem** 1990;22(2):129–32 (40 ref.)

Aspartame– or sugar–sweetened beverages: effects on mood in young women. Pivonka EE, et al. **J Am Diet Assoc** 1990 Feb;90(2):250–4

MM 45289, a potent glycopeptide antibiotic which interacts weakly with diacetyl–L–lysyl–D–alanyl–D–alanine. Good VM, et al. **J Antibiot (Tokyo)** 1990 May;43(5):550–5

N–bromoacetyl–D–leucylglycine. An affinity label for neutral endopeptidase 24.11. Bateman RC Jr, et al. **J Biol Chem** 1990 May 25;265(15):8365–8

A novel succinyl dipeptide stimulates directed cell migration by modulating protein kinase C activity. Mascardo RN, et al. **J Cell Physiol** 1990 Feb;142(2):401–9

The neuropsychiatric effects of aspartame in normal volunteers. Lapierre KA, et al. **J Clin Pharmacol** 1990 May; 30(5):454–60

Alpha–diketone and alpha–keto ester derivatives of N–protected amino acids and peptides as novel inhibitors of cysteine and serine proteinases. Angelastro MR, et al. **J Med Chem** 1990 Jan;33(1):11–3

Renin inhibitors based on dipeptide analogues. Incorporation of the hydroxyethylene isostere at the P2/P3 sites. Kempf DJ, et al. **J Med Chem** 1990 Jan;33(1):371–4

Phosphoramidate peptide inhibitors of human skin fibroblast collagenase. Kortylewicz ZP, et al. **J Med Chem** 1990 Jan; 33(1):263–73

Angiotensin converting enzyme inhibitors. 10. Aryl sulfonamide substituted N–[1–carboxy–3–phenylpropyl]–L–alanyl–L–proline derivatives as novel antihypertensives. Mencel JJ, et al. **J Med Chem** 1990 Jun;33(6):1606–15

Glycyl–L–glutamine stimulates the accumulation of A12 acetylcholinesterase but not of nicotinic acetylcholine receptors in quail embryonic myotubes by a cyclic AMP–independent mechanism. Lotwick HS, et al. **J Neurochem** 1990 Apr;54(4):1122–9

Competitive inhibition of N–acetylated–alpha–linked acidic dipeptidase activity by N–acetyl–L–aspartyl–beta–linked L–glutamate. Serval V, et al. **J Neurochem** 1990 Jul; 55(1):39–46

Effect of precursors on the synthesis of catecholamines and on neurotransmission in the superior cervical ganglion of the rat. Zhang C, et al. **J Neurochem** 1990 Sep;55(3):890–8

Effects of excitatory amino acid antagonists on synaptic responses of supraoptic neurons in slices of rat hypothalamus. Gribkoff VK, et al. **J Neurophysiol** 1990 Jan;63(1):60–71

Intraocular pressure lowering effects of the renin inhibitor ABBOTT–64662 diacetate in animals. Giardina WJ, et al. **J Ocul Pharmacol** 1990 Summer;6(2):75–83

Elevation of plasma atrial natriuretic peptide in rats with chronic heart failure by SCH 39370, a neutral metalloendopeptidase inhibitor. Tikkanen I, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):641–5

Renal hemodynamic and excretory responses to renin inhibition induced by A–64662. Verburg KM, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):449–55

Dual action mechanisms of KK–3, a newly synthesized leu–enkephalin derivative, in the production of spinal analgesic effects. Takahashi M, et al. **Jpn J Pharmacol** 1990 Apr;52(4):573–8

Aspartame ingestion with and without carbohydrate in phenylketonuric and normal subjects: effect on plasma concentrations of amino acids, glucose, and insulin. Wolf–Novak LC, et al. **Metabolism** 1990 Apr;39(4):391–6

Chronic blockade of D2 but not D1 dopamine receptors facilitates behavioural responses to endogenous enkephalins, protected by kelatorphan, administered in the accumbens in rats. Maldonado R, et al. **Neuropharmacology** 1990 Mar;29(3):215–23

Effects of a new analog of thyrotropin–releasing hormone, N alpha–[(S)–4–oxo–2–azetidinyl) carbonyl]–L–histidyl–L–prolinamide dehydrate (YM–14673) on spinal reflex potentials and flexor reflexes in spinalized rats. Ono H, et al. **Neuropharmacology** 1990 Jan;29(1):69–74

Effects of the enkephalinase inhibitor SCH 34826 on the sleep–waking cycle and EEG activity in the rat. Trampus M, et al. **Neuropharmacology** 1990 Mar;29(3):199–205

Impairment of olfactory memory by local infusions of non–selective excitatory amino acid receptor antagonists into the accessory olfactory bulb. Brennan PA, et al. **Neuroscience** 1989;33(3):463–8

The anti–leishmanial activity of dipeptide esters on Leishmania amazonensis amastigotes. Ramazeilles C, et al. **Parasitology** 1990 Apr;100 Pt 2:201–7

Aspartame: effects on learning, behavior, and mood. Saravis S, et al. **Pediatrics** 1990 Jul;86(1):75–83

Peripheral injection of DNS–RFa, a FMRFa agonist, suppresses morphine–induced analgesia in rats. Brussaard AB, et al. **Peptides** 1989 Jul–Aug;10(4):735–9

Release of substance P by intrathecal KK–3, a newly

synthesized Leu-enkephalin derivative. Takahashi M, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):843–6

Effects of a new TRH analogue, YM–14673, on disturbance of passive avoidance learning in senescence-accelerated mice. Yamamoto M, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):727–9

Oral stimulation with aspartame increases hunger. Tordoff MG, et al. **Physiol Behav** 1990 Mar;47(3):555–9

Glycyl–L–glutamine opposes the fall in choline acetyltransferase in the denervated superior cervical ganglion of the cat. Koelle GB, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10153–5

Mechanism of L–leucyl–L–leucine methyl ester–mediated killing of cytotoxic lymphocytes: dependence on a lysosomal thiol protease, dipeptidyl peptidase I, that is enriched in these cells. Thiele DL, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):83–7

An explanation for the purported excitation of piriform cortical neurons by N-acetyl–L–aspartyl–L–glutamic acid (NAAG). Whittemore ER, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9602–5

Enhancement of acetylcholinesterase synthesis by glycyl–L–glutamine: an example of a small peptide that regulates differential transcription? Koelle GB. **Trends Pharmacol Sci** 1988 Sep;9(9):318–21 (21 ref.)

Effect of immunomodulator adamantylamide dipeptide on antibody response to influenza subunit vaccines and protection against aerosol influenza infection. Masihi KN, et al. **Vaccine** 1990 Apr;8(2):159–63

[In vitro and in vivo inhibition of renin by a thiazolylalanyl cyclostatine derivative] Muneta S. **Nippon Jinzo Gakkai Shi** 1989 Aug;31(8):865 (Eng. Abstr.) **(Jpn)**

[Acceleration of metabolism of stress-related substances by L–carnosine] Nagai K, et al. **Nippon Seirigaku Zasshi** 1990; 52(7):221–8 (Eng. Abstr.) **(Jpn)**

[The effect of carnosine on indicators of free radical lipid oxidation during acute stress in rats] Guliaeva NV, et al. **Biol Nauki** 1989;(8):5–16 (Eng. Abstr.) **(Rus)**

[Effects of 4–methyluracil and carnosine on healing of skin wounds in rats] Silaeva SA, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):180–2 (Eng. Abstr.) **(Rus)**

[The effect of carnosine on synaptic transmission in the frog neuromuscular junction] Drabkina TM, et al. **Fiziol Zh SSSR** 1990 Jan;76(1):18–25 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Monte Carlo calculations of free ammonia production in deoxygenated solutions of glycylglycine irradiated by X rays and 60Co gamma rays. Bolch WE, et al. **Radiat Res** 1990 Mar;121(3):248–56

Measurement of free ammonia produced by X irradiation of glycylglycine in aqueous solution. Yoshida H, et al. **Radiat Res** 1990 Mar;121(3):257–61

THERAPEUTIC USE

Pretreatment of murine donor grafts with L–leucyl–L–leucine methyl ester: elimination of graft–versus–host disease without detrimental effects on engraftment. Blazar BR, et al. **Blood** 1990 Feb 1; 75(3):798–805

Potent antinociceptive effects of kelatorphan (a highly efficient inhibitor of multiple enkephalin–degrading enzymes) systemically administered in normal and arthritic rats. Kayser V, et al. **Brain Res** 1989 Sep 11;497(1):94–101

The antinociceptive effects of intrathecally administered SCH32615, an enkephalinase inhibitor in the rat. Oshita S, et al. **Brain Res** 1990 May 7;515(1–2):143–8

Assessment of renin dependency of hypertension with a dipeptide renin inhibitor. Weber MA, et al. **Circulation** 1990 Jun;81(6):1768–74

Effects of zinc L–carnosine on gastric mucosal and cell damage caused by ethanol in rats. Correlation with endogenous prostaglandin E2. Arakawa T, et al. **Dig Dis Sci** 1990 May;35(5):559–66

Pharmacological actions of a new TRH analogue, YM–14673, in rats subjected to cerebral ischemia and anoxia. Yamamoto M, et al. **Eur J Pharmacol** 1990 Jun 8; 181(3):207–14

Effect of YM–14673, a new thyrotropin releasing hormone analogue, on ataxic gait in cytosine arabinoside–treated mice. Yamamoto M, et al. **Eur J Pharmacol** 1989 Aug 3; 166(3):545–7

Effects of a novel renin inhibitor in patients with essential hypertension. Bursztyn M, et al. **J Cardiovasc Pharmacol** 1990 Mar;15(3):493–500

Safety and tolerability of single intravenous doses of T cell modulatory peptide (TCMP–80) in healthy volunteers. Eldon MA, et al. **J Clin Pharmacol** 1990 Apr;30(4):352–7

On the use of diazepam and pro–diazepam (2–benzoyl–4–chloro–N–methyl–N–lysylglycin anilide), as adjunct antidotes in the treatment of organophosphorus intoxication in the guinea–pig. Karlsson B, et al. **J Pharm Pharmacol** 1990 Apr;42(4):247–51

[Evaluation of the efficacy of the magnesium salt of N–acetyl–aspartyl–glutamic acid in the treatment of acute rhinitis] Miadonna A, et al. **Clin Ter** 1989 Nov 15; 131(3):173–6 (Eng. Abstr.) **(Ita)**

[Clinical application of renin inhibitors in the treatment of hypertension] Hiwada K. **Nippon Rinsho** 1989 Sep; 47(9):2041–6 **(Jpn)**

[The effect of carnosine on the healing of a lung wound] Perel'man MI, et al. **Biull Eksp Biol Med** 1989 Sep; 108(9):352–6 (Eng. Abstr.) **(Rus)**

TOXICITY

Absence of developmental effects in CF–1 mice exposed to aspartame in utero. McAnulty PA, et al. **Fundam Appl Toxicol** 1989 Aug;13(2):296–302

The action of leucyl–leucine methyl ester on cytotoxic lymphocytes requires uptake by a novel dipeptide–specific facilitated transport system and dipeptidyl peptidase I–mediated conversion to membranolytic products. Thiele DL, et al. **J Exp Med** 1990 Jul 1;172(1):183–94

Impaired performance on odor–aversion testing following prenatal aspartame exposure in the guinea pig. Dow–Edwards DL, et al. **Neurotoxicol Teratol** 1989 Jul–Aug;11(4):413–6

Oral administration of aspartame is not proconvulsant in rats. Tilson HA, et al. **Neurotoxicology** 1989 Summer; 10(2):229–38

Aspartame and phenylalanine do not enhance theophylline–induced seizures in rats. Zhi JQ, et al. **Res Commun Chem Pathol Pharmacol** 1989 Oct;66(1):171–4

URINE

Iminodipeptiduria: a genetic defect in recycling collagen; a method for determining prolidase in erythrocytes. Jackson SH, et al. **Can Med Assoc J** 1975 Oct 18;113(8):759, 762–3

Liquid chromatography–mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency. Kodama H, et al. **J Chromatogr** 1990 May 18;527(2):279–88

DIPEPTIDYL AMINOPEPTIDASES see **DIPEPTIDYL PEPTIDASES**

DIPEPTIDYL PEPTIDASES

ANALYSIS

Presence of dipeptidyl peptidase II, dipeptidyl peptidase IV, and prolyl endopeptidase in effusion from patients with serous otitis media. Rao AJ, et al. **Biochem Med Metab Biol** 1990 Jun;43(3):276–82

Quantitative immunogold localization of dipeptidyl peptidase IV (DPP IV) in rat liver cells. Fukui Y, et al. **Cell Struct Funct** 1990 Apr;15(2):117–25

Presence of a dipeptidyl aminopeptidase III in Saccharomyces cerevisiae. Watanabe Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Jan;38(1):246–8

Cytochemistry of dipeptidylaminopeptidase IV in T lymphoblastic leukaemia–lymphoma. Invernizzi R, et al. **Haematologia (Budap)** 1989;22(3):143–9

Identification of the bile canalicular cell surface molecule GP110 as the ectopeptidase dipeptidyl peptidase IV: an analysis by tissue distribution, purification and N–terminal amino acid sequence. McCaughan GW, et al. **Hepatology** 1990 Apr;11(4):534–44

Localization of dipeptidyl aminopeptidase yscIV in the plasma membrane of Saccharomyces cerevisiae. Bordallo C, et al. **J Gen Microbiol** 1990 Mar;136 (Pt 3):419–23

CD26 antigen is a surface dipeptidyl peptidase IV (DPPIV) as characterized by monoclonal antibodies clone TII–19–4–7 and 4EL1C7. Ulmer AJ, et al. **Scand J Immunol** 1990 Apr;31(4):429–35

[Application of dipeptidylpeptidase IV in formation of the peptide bond] Heiduschka P, et al. **Pharmazie** 1989 Nov; 44(11):778–80 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

The inactivation of the cysteinyl exopeptidases cathepsin H and C by affinity–labelling reagents. Angliker H, et al. **Biochem J** 1989 Aug 15;262(1):63–8

BIOSYNTHESIS

Expression of enzymatically active rat dipeptidyl peptidase IV in Chinese hamster ovary cells after transfection. Hong WJ, et al. **Biochemistry** 1989 Oct 17;28(21):8474–9

BLOOD

Dipeptidyl peptidase IV (DP IV) and superoxide dismutase activity in thymus–derived lymphocytes: effects of inhibitory peptides and Zn2+ in vitro. Endröczi E, et al. **Acta Physiol Hung** 1990;75(1):35–44

In vitro metabolic degradation of a bovine growth hormone–releasing factor analog Leu27–bGRF(1–29)NH2 in bovine and porcine plasma. Correlation with plasma dipeptidylpeptidase activity. Kubiak TM, et al. **Drug Metab Dispos** 1989 Jul–Aug;17(4):393–7

Lymphocyte ectoenzyme activity compared in healthy persons and patients seropositive to or at high risk of HIV infection. Chalmers AH, et al. **Immunol Cell Biol** 1990 Apr; 68 (Pt 2):81–5

[The behavior of dipeptidyl peptidase IV in PUVA therapy of patients with psoriasis] Lins VG, et al. **Dermatol Monatsschr** 1989;175(12):761–3 **(Ger)**

[Dipeptidylpeptidase IV activity in human lymphocytes in hepatobiliary diseases] Stuhec K, et al. **Gastroenterol J** 1990;50(1):43–9 (Eng. Abstr.) **(Ger)**

[Clinical significance of glycylprolyl dipeptidyl-amino peptidase analysis in biochemical laboratory tests] Watanabe Y, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:267–9 **(Jpn)**

[Dipeptidyl aminopeptidase–IV in lymphocytes of patients with lymphoproliferative diseases] Bylinkina VS, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):85–8 (Eng. Abstr.) **(Rus)**

DEFICIENCY

Evidence for tripeptide–proton symport in renal brush border membrane vesicles. Studies in a novel rat strain with a genetic absence of dipeptidyl peptidase IV. Tiruppathi C, et al. **J Biol Chem** 1990 Feb 5;265(4):2048–53

GENETICS

Molecular dissection of the NH2–terminal signal/anchor sequence of rat dipeptidyl peptidase IV. Hong WJ, et al. **J Cell Biol** 1990 Aug;111(2):323–8

IMMUNOLOGY

Immunohistocytochemical correlation of DAP IV–CD 26 reactivity with immunologic markers of lymphocyte activation in human lymphoid tissues. Cozzi M, et al. **Br J Haematol** 1990 Jul;75(3):325–32

Characterization and in vivo transfer of nephritogenic autoantibodies directed against dipeptidyl peptidase IV and laminin in experimental lupus nephritis. Bruijn JA, et al. **Lab Invest** 1990 Sep;63(3):350–9

ISOLATION & PURIFICATION

Localization of the peptidase activity of human serum butyrylcholinesterase in a approximately 50–kDa fragment obtained by limited alpha–chymotrypsin digestion. Rao RV, et al. **Eur J Biochem** 1990 Mar 30;188(3):637–43

METABOLISM

Kinetic and end–point microdensitometry (section biochemistry) of gamma–glutamyl transpeptidase and dipeptidyl peptidase IV in the mature mouse decidua and visceral yolk sac. Ruhnke M, et al. **Acta Histochem (Jena)** 1989;87(1):23–31

Biochemical properties of dipeptidyl peptidase IV in liver and hepatoma plasma membranes. Reutter W, et al. **Adv Enzyme Regul** 1989;28:253–69

Dipeptidyl(amino)peptidase IV and post proline cleaving enzyme in cultured endothelial and smooth muscle cells. Palmieri FE, et al. **Adv Exp Med Biol** 1989;247A:305–11

Trypsin–like, chymotrypsin–like and glycylprolyl dipeptidase activities in gingival crevicular fluid from human periodontal sites with gingivitis. Beighton D, et al. **Arch Oral Biol** 1989;34(11):843–6

Evidence for a role of dipeptidyl peptidase IV in fibronectin–mediated interactions of hepatocytes with extracellular matrix. Piazza GA, et al. **Biochem J** 1989 Aug 15;262(1):327–34

Activities of dipeptidyl peptidases in BXSB mice and MRL/lpr mice with lupus erythematosus–like syndrome. Hagihara M, et al. **Biochem Med Metab Biol** 1989 Dec; 42(3):224–31

Two neutral dipeptidyl–aminopeptidase activities of guinea–pig brain. O'Connor B, et al. **Biochem Soc Trans** 1990 Apr;18(2):276

Cytochemical analysis of single villus peptidase activities in pig intestine during neonatal development. Tivey DR, et al. **Histochem J** 1989 Sep–Oct;21(9–10):601–8

Dipeptidylaminopeptidase IV activity in T lymphocyte subsets in B cell non–Hodgkin's lymphomas. Cozzi M, et al. **Hum Pathol** 1989 Oct;20(10):987–93

Surface location of a Bacteroides gingivalis glycylprolyl protease. Grenier D, et al. **Infect Immun** 1989 Nov; 57(11):3265–9

Localization and activity of various lysosomal proteases in Leishmania amazonensis–infected macrophages. Prina E, et al. **Infect Immun** 1990 Jun;58(6):1730–7

Localization of dipeptidylpeptidase IV and alkaline phosphatase in developing spinal cord meninges and peripheral nerve coverings of the rat. Haninec P, et al. **Int J Dev Neurosci** 1990;8(2):175–85

Hydrolysis and transport of proline–containing peptides in renal brush–border membrane vesicles from dipeptidyl peptidase IV–positive and dipeptidyl peptidase IV–negative rat strains. Tiruppathi C, et al. **J Biol Chem** 1990 Jan 25; 265(3):1476–83

The action of leucyl–leucine methyl ester on cytotoxic lymphocytes requires uptake by a novel dipeptide–specific facilitated transport system and dipeptidyl peptidase I–mediated conversion to membranolytic products. Thiele DL, et al. **J Exp Med** 1990 Jul 1;172(1):183–94

The T cell triggering molecule Tp103 is associated with dipeptidyl aminopeptidase IV activity. Hegen M, et al. **J Immunol** 1990 Apr 15;144(8):2908–14

Binding of the T cell activation monoclonal antibody Ta1 to dipeptidyl peptidase IV. Barton RW, et al. **J Leukoc Biol** 1990 Oct;48(4):291–6

Mechanism of L–leucyl–L–leucine methyl ester–mediated killing of cytotoxic lymphocytes: dependence on a lysosomal thiol protease, dipeptidyl peptidase I, that is enriched in these cells. Thiele DL, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):83–7

Processing of precursors by dipeptidylaminopeptidases: a case of molecular ticketing. Kreil G.
Trends Biochem Sci 1990 Jan;15(1):23–6 (37 ref.)
[Dipeptidyl aminopeptidase IV in hospitalized patients and in galactosamine hepatitis of the rat: Activity and lectin affinity chromatography in serum and hepatic plasma membranes] Eggstein S, et al.
J Clin Chem Clin Biochem 1989 Sep;27(9):547–54 (Eng. Abstr.) (Ger)

URINE

Purification and properties of dipeptidyl peptidase IV from human urine. Chikuma T, et al.
Biol Chem Hoppe Seyler 1990 Apr;371(4):325–30
Urinary excretion of dipeptidyl aminopeptidase i.v. in patients with renal diseases. Wolf G, et al. **Clin Nephrol** 1990 Mar; 33(3):136–42
[Urinary excretion of glycine.prolile dipeptidile aminopeptidase, N-acetyl-beta-D-glucosaminidase, alanine aminopeptidase and low molecular protein in patients with renal cell carcinoma] Kitamura Y, et al.
Hinyokika Kiyo 1990 May;36(5):535–9 (Eng. Abstr.) (Jpn)

DIPETALONEMA

ANALYSIS

Biochemical analyses of secretory and excretory products of adult Dipetalonema viteae in culture. Wisnewski N, et al. **J Parasitol** 1990 Jun;76(3):302–6
Origin, kinetics of circulation and fate in vivo of the major excretory-secretory product of Acanthocheilonema viteae. Harnett W, et al. **Parasitology** 1989 Oct;99 Pt 2:229–39

DRUG EFFECTS

The effect of two novel analogues of antimycin A on oxygen consumption and survival of filarial nematodes in vitro. Hayes DJ, et al. **Mol Biochem Parasitol** 1990 Jan 15; 38(2):159–68

ENZYMOLOGY

The acid phosphatase activity and morphological characteristics of Dipetalonema dracunculoides (Cobbold, 1870) microfilariae. Ortega-Mora LM, et al.
Vet Parasitol 1989 Sep;33(2):187–90

GROWTH & DEVELOPMENT

Survival of microfilariae released in vitro by the filarial worm, Dipetalonema viteae. Maki J, et al.
Kitasato Arch Exp Med 1989 Dec;62(4):203–5

IMMUNOLOGY

Immunoprophylaxis against filarial parasite, Dipetalonema viteae in multimammate rat Mastomys natalensis: immunisation with adult worm antigens. Sumati, et al.
Indian J Exp Biol 1990 Jun;28(6):582–4

PHYSIOLOGY

Potential of a soluble tetrazolium/formazan assay for the evaluation of filarial viability. Comley JC, et al.
Int J Parasitol 1990 Apr;20(2):251–5
Dipetalonema vitae: survival of adult females and microfilarial release in both a chemically defined and serum-supplemented medium. Maki J, et al. **J Parasitol** 1989 Dec;75(6):953–7

DIPETALONEMA INFECTIONS see under **FILARIASIS**

DIPHENHYDRAMINE

Use of diphenhydramine for local anesthesia in "caine"-sensitive patients. Pollack CV Jr, et al.
J Emerg Med 1989 Nov-Dec;7(6):611–4
Abuse liability of diphenhydramine in sedative abusers. Wolf B, et al. **NIDA Res Monogr** 1989;95:486–7

ADMINISTRATION & DOSAGE

Protection from nausea and vomiting in cisplatin-treated patients: high-dose metoclopramide combined with methylprednisolone versus metoclopramide combined with dexamethasone and diphenhydramine: a study of the Italian Oncology Group for Clinical Research. Roila F, et al.
J Clin Oncol 1989 Nov;7(11):1693–700

ADVERSE EFFECTS

Quantitative effects of cetirizine and diphenhydramine on mental performance measured using an automobile driving simulator. Gengo FM, et al. **Ann Allergy** 1990 Jun; 64(6):520–6
Severe reaction to diphenhydramine [letter; comment] Ramadell WM. **J Am Acad Dermatol** 1989 Dec; 21(6):1318–20 Comment on: J Am Acad Dermatol 1988 Oct;19(4):599–614.

ANALOGS & DERIVATIVES

Studies on synergism between penicillins and ambodryl (bromodiphenhydramine HCl), an antihistamine with antimicrobial property. Ray S, et al. **Indian J Exp Biol** 1990 Mar;28(3):253–8

ANALYSIS

Determination of diphenhydramine hydrochloride by flow injection with bromophenol blue and turbidimetric measurement. Martinez Calatayud J, et al. **Analyst** 1990 Jun;115(6):855–8

BLOOD

High-performance liquid chromatography method for the determination of diphenhydramine in human plasma. Selinger K, et al. **J Chromatogr** 1990 Apr 6;526(2):597–602

METABOLISM

Cytochrome P-450 metabolic-intermediate complex formation with a series of diphenhydramine analogues. Bast A, et al. **Agents Actions** 1990 Apr;30(1-2):161–5
[Effect of various factors on the absorption of dimedrol, diprazine (pipolphen) and suprastin on rat small intestine in vitro] Bender KI, et al. **Farmakol Toksikol** 1989 May-Jun;52(3):66–71 (Eng. Abstr.) (Rus)

PHARMACOKINETICS

Diphenhydramine kinetics following intravenous, oral, and sublingual dimenhydrinate administration. Scavone JM, et al. **Biopharm Drug Dispos** 1990 Apr;11(3):185–9
Diphenhydramine: pharmacokinetics and pharmacodynamics in elderly adults, young adults, and children. Simons KJ, et al. **J Clin Pharmacol** 1990 Jul;30(7):665–71
Pharmacokinetics of diphenhydramine after dose ranging in nonpregnant ewes. Yoo SD, et al. **J Pharm Sci** 1990 Feb; 79(2):106–10

PHARMACOLOGY

Effects of prenatal diphenhydramine administration on sexual behavior in rats. Chiavegatto S, et al.
Braz J Med Biol Res 1989;22(6):729–32
Effects of antihistamines on phorbol ester tumor promotion and vascular permeability changes. Fischer SM, et al.
Carcinogenesis 1990 Jun;11(6):991–6
Effects of H1 and H2 histamine receptor antagonists on positive feed-back effect of estrogen on LH in prepubertal female rats. Moguilevsky JA, et al. **Horm Metab Res** 1989 Dec;21(12):658–60
Effect of diphenhydramine on organophosphorus insecticide toxicity in mice. Mohammad FK, et al. **Toxicology** 1989 Sep;58(1):91–5

POISONING

Accidental childhood death from diphenhydramine overdosage. Goetz CM, et al. **Am J Emerg Med** 1990 Jul; 8(4):321–2
Topically induced diphenhydramine toxicity. Reilly JF Jr, et al. **J Emerg Med** 1990 Jan-Feb;8(1):59–61
Central anticholinergic syndrome after ofloxacin overdose and therapeutic doses of diphenhydramine and chlormezanone. Koppel C, et al. **J Toxicol Clin Toxicol** 1990;28(2):249–53

THERAPEUTIC USE

Combination metoclopramide and diphenhydramine short infusion for prevention of chemotherapy-induced emesis [letter; comment] Przepiorka D, et al. **Am J Clin Oncol** 1990 Apr;13(2):180 Comment on: Am J Clin Oncol 1989 Jun;12(3):235–8.
Treatment of a delayed reaction to droperidol with diphenhydramine [letter; comment] Schreibman DL.
Anesth Analg 1990 Jul;71(1):105 Comment on: Anesth Analg 1989 Dec;69(6):748–51.
Comparison of cimetidine and diphenhydramine in the treatment of acute urticaria. Moscati RM, et al.
Ann Emerg Med 1990 Jan;19(1):12–5
Prophylactic administration of histamine1 and histamine2 receptor blockers in the prevention of protamine-related haemodynamic effects. Kambam J, et al. **Can J Anaesth** 1990 May;37(4 Pt 1):420–2
A pilot study of metoclopramide, dexamethasone, diphenhydramine and acupuncture in women treated with cisplatin. Aglietti L, et al. **Cancer Chemother Pharmacol** 1990;26(3):239–40
Anxiety treatment [letter; comment] O'Brien DF.
J Psychosoc Nurs Ment Health Serv 1990 Apr;28(4):5 Comment on: J Psychosoc Nurs Ment Health Serv 1989 Oct;27(10):42–3.
[Evaluation of antiemetic effect of clonazepam, metoclopramide, dexamethasone and diphenhydramine for prevention of cisplatin-induced vomiting] Hatae M, et al.
Gan To Kagaku Ryoho 1990 Aug;17(8 Pt 1):1495–9 (Eng. Abstr.) (Jpn)

URINE

Effects of diphenhydramine on immunoassays of phencyclidine in urine [letter] Levine BS, et al.
Clin Chem 1990 Jun;36(6):1258

DIPHENHYDRAMINE THEOCLATE see **DIMENHYDRINATE**

DIPHENOL OXIDASES

ANALYSIS

A reexamination of the melanin formation assay of tyrosinase and an extension to estimate phaeomelanin formation. Aroca P, et al. **J Biochem Biophys Methods** 1989 Oct; 19(4):327–37
Hazard in tyrosinase assays [letter] Bennett DC.
J Invest Dermatol 1989 Nov;93(5):709
Properties of phenol oxidase in Fasciola gigantica. Nellaiappan K, et al. **Parasitology** 1989 Dec;99 Pt 3:403–7
[Phenoloxidase in the ontogeny of Drosophila melanogaster] Belokon' EM, et al. **Ontogenez** 1990 May-Jun;21(3):274–9 (Eng. Abstr.) (Rus)

ANTAGONISTS & INHIBITORS

Modulation of melanocytic activity by acetylcholine. Iyengar B. **Acta Anat (Basel)** 1989;136(2):139–41
Benzoic acid inhibition of the alpha, beta, and gamma isozymes of Agaricus bisporus tyrosinase. Menon S, et al.
Arch Biochem Biophys 1990 Jul;280(1):27–32
A kinetic study of the suicide inactivation of an enzyme measured through coupling reactions. Application to the suicide inactivation of tyrosinase. Escribano J, et al.
Biochem J 1989 Sep 1;262(2):597–603
Regulation of mammalian melanogenesis by tyrosinase inhibition. Kameyama K, et al. **Differentiation** 1989 Oct; 42(1):28–36

BIOSYNTHESIS

L-tyrosine stimulates induction of tyrosinase activity by MSH and reduces cooperative interactions between MSH receptors in hamster melanoma cells. Slominski A, et al.
Biosci Rep 1989 Oct;9(5):579–86
L-tyrosine induces synthesis of melanogenesis related proteins. Slominski A. **Life Sci** 1989;45(19):1799–803

BLOOD

[Cytochemical demonstration of phenoloxidase in peripheral blood leukocytes] Rohrberg R, et al.
Folia Haematol (Leipz) 1990;117(2):271–6 (Eng. Abstr.) (Ger)

DIAGNOSTIC USE

Silicone-grease-based immobilisation method for the preparation of enzyme electrodes. Connor MP, et al.
Analyst 1989 Nov;114(11):1427–9

GENETICS

Human oculocutaneous albinism caused by single base insertion in the tyrosinase gene. Tomita Y, et al.
Biochem Biophys Res Commun 1989 Nov 15;164(3):990–6
Mutations affecting phenol oxidase activity in Drosophila: quicksilver and tyrosinase-1. Pentz ES, et al.
Biochem Genet 1990 Apr;28(3-4):151–71
Characteristic sequences in the upstream region of the human tyrosinase gene. Kikuchi H, et al.
Biochim Biophys Acta 1989 Dec 22;1009(3):283–6
Melanization in albino mice transformed by introducing cloned mouse tyrosinase gene. Tanaka S, et al.
Development 1990 Feb;108(2):223–7
Rescue of the albino phenotype by introduction of a functional tyrosinase gene into mice. Beermann F, et al.
EMBO J 1990 Sep;9(9):2819–26
A point mutation in the tyrosinase gene of BALB/c albino mouse causing the cysteine——serine substitution at position 85. Shibahara S, et al. **Eur J Biochem** 1990 Apr 30;189(2):455–61
The melanin operon of Streptomyces antibioticus: expression and use as a marker in gram-negative bacteria. Tseng HC, et al. **Gene** 1990 Jan 31;86(1):123–8
Detection of point mutation in the tyrosinase gene of a Japanese albino patient by a direct sequencing of amplified DNA. Kikuchi H, et al. **Hum Genet** 1990 Jun;85(1):123–4
Melanin production in cultured albino melanocytes transfected with mouse tyrosinase cDNA. Yamamoto H, et al. **Idengaku Zasshi** 1989 Apr;64(2):121–35
Isolation and characterization of the tyrosinase gene from Neurospora crassa. Kupper U, et al. **J Biol Chem** 1989 Oct 15;264(29):17250–8
Isolation, chromosomal mapping, and expression of the mouse tyrosinase gene. Kwon BS, et al.
J Invest Dermatol 1989 Nov;93(5):589–94
Nucleotide sequence of the cDNA encoding human tyrosinase-related protein. Cohen T, et al.
Nucleic Acids Res 1990 May 11;18(9):2807–8
RFLP for MboI in the human tyrosinase (TYR) gene detected by PCR. Giebel LB, et al. **Nucleic Acids Res** 1990 May 25;18(10):3103
A frequent tyrosinase gene mutation in classic, tyrosinase-negative (type IA) oculocutaneous albinism. Giebel LB, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(9):3255–8
Murine and human b locus pigmentation genes encode a glycoprotein (gp75) with catalase activity. Halaban R, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4809–13
Identification of the albino mutation of mouse tyrosinase by analysis of an in vitro revertant. Jackson IJ, et al.
Proc Natl Acad Sci U S A 1990 Sep;87(18):7010–4

Molecular analysis of the DNA segments cross-hybridizable to the tyrosinase gene in patients affected with oculocutaneous albinism. Takeda A, et al. **Tohoku J Exp Med** 1989 Dec;159(4):333–40

ISOLATION & PURIFICATION

Partial purification of a thylakoid-bound enzyme using temperature-induced phase partitioning. Sánchez-Ferrer A, et al. **Anal Biochem** 1990 Feb 1;184(2):279–82

Purification of tyrosinase to homogeneity based on its resistance to sodium dodecyl sulfate-proteinase K digestion. Yurkow EJ, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):122–9

Studies on prophenoloxidase activation in the mosquito Aedes aegypti L. Ashida M, et al. **Eur J Biochem** 1990 Mar 30;188(3):507–15

METABOLISM

Stimulation of tyrosinase by dihydroxy phenyl derivatives. Karg E, et al. **Acta Derm Venereol (Stockh)** 1989; 69(6):521–4

Oxygenation of fluorinated tyrosines by mushroom tyrosinase releases fluoride ion. Phillips RS, et al. **Arch Biochem Biophys** 1990 Jan;276(1):65–9

Dopachrome conversion factor functions as an isomerase. Pawelek JM. **Biochem Biophys Res Commun** 1990 Feb 14; 166(3):1328–33

The pH dependence of the reconstitution reaction of apotyrosinase: the question of Cu(I) versus Cu(II). Wigfield DC, et al. **Biochem Cell Biol** 1990 Mar;68(3):648–50

Enkephalins and exorphins oxidation by tyrosinase. Rosei MA, et al. **Biochem Int** 1989 Dec;19(6):1183–93

A novel plasma factor that potentiates prophenoloxidase activation in the immune response of Blaberus discoidalis. Javed Q, et al. **Biochem Soc Trans** 1990 Jun;18(3):457

Activation of mammalian tyrosinase by ferrous ions. Palumbo A, et al. **Biochim Biophys Acta** 1990 Mar 26;1033(3):256–60

Stereochemical studies on the formation of melanin by monophenol monooxygenase. Kajiwara M, et al. **Chem Pharm Bull (Tokyo)** 1989 Dec;37(12):3386–9

Effects of copper on the tyrosinase of liver pigment cells from Rana esculenta L. Cicero R, et al. **Comp Biochem Physiol [B]** 1990;96(2):393–7

Effect of thymidine analogs on tyrosinase activity and mRNA accumulation in mouse melanoma cells. Kidson SH, et al. **Exp Cell Res** 1990 May;188(1):36–41

Isolation and characterization of an environmental acid-fast organism producing diphenoloxidase activity in vivo. Harris EB, et al. **FEMS Microbiol Lett** 1990 Jun 15; 58(1):95–9

Hormonal stimulation of tyrosinase activity in human foreskin organ cultures. Iwata M, et al. **In Vitro Cell Dev Biol** 1990 Jun;26(6):554–60

Catecholamines and virulence of Cryptococcus neoformans. Polacheck I, et al. **Infect Immun** 1990 Sep;58(9):2919–22

Sodium dodecyl sulfate activation of a plant polyphenoloxidase. Effect of sodium dodecyl sulfate on enzymatic and physical characteristics of purified broad bean polyphenoloxidase. Moore BM, et al. **J Biol Chem** 1990 Mar 25;265(9):4982–8

MSH inhibits growth in a line of amelanotic hamster melanoma cells and induces increases in cyclic AMP levels and tyrosinase activity without inducing melanogenesis. Slominski A, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):551–9

Analysis of carbohydrate properties essential for melanogenesis in tyrosinases of cultured malignant melanoma cells by differential carbohydrate processing inhibition. Imokawa G. **J Invest Dermatol** 1990 Jul; 95(1):39–49

The relationship between tyrosinase activity and skin color in human foreskins. Iwata M, et al. **J Invest Dermatol** 1990 Jul;95(1):9–15

RFLP for BglII at the human tyrosinase (TYR) locus. Spritz RA, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3672

Tyrosinase activity in the first coat of agouti and black mice. Movaghar M. **Pigment Cell Res** 1989 Sep–Oct;2(5):401–7

Effects of tyrosinase activity on the cytotoxicity of 3,4-dihydroxybenzylamine and buthionine sulfoximine in human melanoma cells. Prezioso JA, et al. **Pigment Cell Res** 1990 Mar–Apr;3(2):49–54

Non-selective action of 4-hydroxyanisole on melanoma cells in vivo. Schwabe K, et al. **Pigment Cell Res** 1990 Jan–Feb; 3(1):8–10

Expression of virally transduced mouse tyrosinase in tyrosinase-negative chick embryo melanocytes in culture. Whitaker BA, et al. **Pigment Cell Res** 1989 Nov–Dec; 2(6):524–7

[Tyrosinase-oxidoreductase; monophenol, o-diphenol: O2] Porębska-Budny M, et al. **Postepy Biochem** 1988; 34(4):375–94 (129 ref.) **(Pol)**

PHARMACOLOGY

Melanin accelerates the tyrosinase-catalyzed oxygenation of p-hydroxyanisole (MMEH). Menter JM, et al. **Pigment Cell Res** 1990 Mar–Apr;3(2):90–7

DIPHENOXYLATE see under **ISONIPECOTIC ACIDS**

DIPHENYL OXIDES see **PHENYL ETHERS**

DIPHENYLAMINE see under **ANILINE COMPOUNDS**

DIPHENYLBUTAZONE see **PHENYLBUTAZONE**

DIPHENYLCARBAZIDE see under **SEMICARBAZIDES**

DIPHENYLHEXATRIENE see under **POLYENES**

DIPHENYLHYDANTOIN see **PHENYTOIN**

DIPHENYLHYDRAMIN see **DIPHENHYDRAMINE**

DIPHENYLMETHYL COMPOUNDS see **BENZHYDRYL COMPOUNDS**

DIPHENYLTHIOHYDANTOIN see under **PHENYTOIN**

DIPHENYLUREA COMPOUNDS see **CARBANILIDES**

DIPHOSPHATIDYLGLYCEROLS see **CARDIOLIPINS**

DIPHOSPHOGLYCERIC ACIDS

BLOOD

Urinary uric acid:creatinine ratio, serum erythropoietin, and blood 2,3-diphosphoglycerate in patients with obstructive sleep apnea. McKeon JL, et al. **Am Rev Respir Dis** 1990 Jul;142(1):8–13

31P-NMR measurements of ATP, ADP, 2,3-diphosphoglycerate and Mg2+ in human erythrocytes. Petersen A, et al. **Biochim Biophys Acta** 1990 Aug 17; 1035(2):169–74

Improved stability of 2,3-bisphosphoglycerate during storage of hexokinase-overloaded erythrocytes. Magnani M, et al. **Biotechnol Appl Biochem** 1989 Oct;11(5):439–44

2,3-Diphosphoglycerate and intracellular pH as interdependent determinants of the physiologic solubility of deoxyhemoglobin S. Poillon WN, et al. **Blood** 1990 Sep 1;76(5):1028–36

The value of umbilical blood 2,3 diphosphoglycerate levels in the diagnosis of chronic fetal hypoxia. Zapadlo M, et al. **Czech Med** 1990;13(1):18–24

Changes in haemoglobin oxygen affinity and erythrocytic 2,3-BPG in ethanol-treated rats. Riera M, et al. **Gen Pharmacol** 1990;21(3):291–3

Hb Hinsdale [beta 139 (H17)Asn——Lys]: a variant in the central cavity showing reduced affinity for oxygen and 2,3-diphosphoglycerate. Moo-Penn WF, et al. **Hemoglobin** 1989;13(5):455–64

Effect of phosphate on oxygen-hemoglobin affinity, diphosphoglycerate and blood gases during recovery from diabetic ketoacidosis. Clerbaux T, et al. **Intensive Care Med** 1989;15(8):495–8

2,3-Diphosphoglycerate phosphatase/synthase: a potential target for elevating the diphosphoglycerate level in human red blood cells. Yu KT, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):192–200

Magnesium deficiency and blood 2,3-diphosphoglycerate concentrations in sedentary and exercised male Osborne-Mendel rats. Lowney P, et al. **Metabolism** 1990 Aug;39(8):837–41

[Experimental study of smoke inhalation injury: early effect on erythrocytic 2, 3-diphosphoglyceric acid concentration in dogs] Dong YN, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Jun;2(2):132–4, 157 (Eng. Abstr.) **(Chi)**

[Changes in the deformability of erythrocytes and 2,3-DPG in coronary artery stenosis] Jiang SS, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):288–9, 318–9 (Eng. Abstr.) **(Chi)**

[Chronic renal insufficiency undergoing conservative therapy: hemorheological pattern and erythrocytic metabolic parameters] Caimi G, et al. **Ric Clin Lab** 1989; 19 Suppl 1:153–7 **(Ita)**

[Clinical significance of red cell glycolytic intermediate analysis] Fujii H. **Nippon Rinsho** 1989 Dec;48 Suppl:992–6 **(Jpn)**

[Clinical significance of 2,3-diphosphoglycerate analysis in blood cell chemical tests] Takagi Y, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:985–8 **(Jpn)**

[The physiologic significance of 2,3-diphosphoglycerate and changes in its erythrocyte levels in an experiment] Béder I, et al. **Bratisl Lek Listy** 1990 May;91(5):386–90 (Eng. Abstr.) **(Slo)**

METABOLISM

1H and 31P nuclear magnetic resonance investigation of the interaction between 2,3-diphosphoglycerate and human normal adult hemoglobin. Russu IM, et al. **Biochemistry** 1990 Apr 17;29(15):3785–92

Natural and artificial mutants of the human 2,3-bisphosphoglycerate as a tool for the evaluation of structure-function relationships. Garel MC, et al. **Biomed Biochim Acta** 1990;49(2-3):S166–71

Influence of erythropoietin treatment on 2,3-bisphosphoglycerate and O2-affinity of red blood cells in children with renal anemia. Rapoport I, et al. **Biomed Biochim Acta** 1990;49(2-3):S280–3

Evidence that 1,3-bisphosphoglycerate dissociation from phosphoglycerate kinase is an intrinsically rapid reaction step. Kvassman J, et al. **Eur J Biochem** 1989 Dec 8; 186(1-2):261–4

Mechanism of 1,3-bisphosphoglycerate transfer from phosphoglycerate kinase to glyceraldehyde-3-phosphate dehydrogenase. Kvassman J, et al. **Eur J Biochem** 1989 Dec 8;186(1-2):265–72

ATP and 2,3-bisphosphoglycerate: models of metabolites for the regulation of intracellular protein degradation. Roche E, et al. **Revis Biol Celular** 1989;21:285–304 (79 ref.)

PHARMACOLOGY

Stimulation by glycerate 2,3-bisphosphate: a common property of cytosolic purine 5'-nucleotidase in various tissues. Bontemps F, et al. **Adv Exp Med Biol** 1989; 253B:141–7

2,3-Diphosphoglycerate is a nonselective inhibitor of inositol 1,4,5-trisphosphate action and metabolism. Guillemette G, et al. **Eur J Pharmacol** 1990 Apr 25;188(4-5):251–60

DIPHOSPHONATES

ADMINISTRATION & DOSAGE

Reduction in calcium excretion in women with breast cancer and bone metastases using the oral bisphosphonate pamidronate. Dodwell DJ, et al. **Br J Cancer** 1990 Jan; 61(1):123–5

The liposome-mediated macrophage 'suicide' technique. Van Rooijen N. **J Immunol Methods** 1989 Nov 13;124(1):1–6 (32 ref.)

Chronic high-dose pamidronate in refractory malignant hypercalcaemia [letter] Judson I, et al. **Lancet** 1990 Mar 31;335(8692):802

Dose of bisphosphonate for hypercalcaemia of malignancy [letter] Morton AR, et al. **Lancet** 1990 Jun 16; 335(8703):1469–70

Comparison of three intravenous bisphosphonates in cancer-associated hypercalcaemia [see comments] Ralston SH, et al. **Lancet** 1989 Nov 18;2(8673):1180–2 Comment in: Lancet 1990 Jan 20;335(8682):170–1.

[Changes in the reaction of rat bone tissue to hypokinesia after administration of hydroxymethyl aminopropylidene bisphosphonate] Shvets VN, et al. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):39–42 (Eng. Abstr.) **(Rus)**

[Treatment of patients with trigeminal neuralgia by xidifon electrophoresis] Karlov VA, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):44–6 (Eng. Abstr.) **(Rus)**

ANALYSIS

[Interference of bisphosphonate in calcium determination using atomic absorption spectroscopy] Krause S, et al. **Z Med Lab Diagn** 1989;30(7):388–90 (Eng. Abstr.) **(Ger)**

BLOOD

Determination of belfosdil, a new calcium channel blocker, in human plasma by capillary gas chromatography with nitrogen-phosphorus detection. Mulvana DE, et al. **J Chromatogr** 1990 May 18;527(2):343–50

DIAGNOSTIC USE

Hemodynamic effects of knee-joint tamponade.

99mTc-diphosphonate scintimetry in growing dogs. Hansen ES, et al. **Acta Orthop Scand** 1989 Oct;60(5):549–53

The scintigraphy of sacroiliac joints. A comparison of 99mTc-DPD and 99mTc-MDP. Lantto T. **Eur J Nucl Med** 1990;16(8–10):677–81

Bone seeking pharmaceuticals. de Ligny CL, et al. **Int J Rad Appl Instrum [B]** 1990;17(2):161–79 (107 ref.)

Quantitative bone scanning in the diagnosis of aluminium osteomalacia. Worth DP, et al. **Nephrol Dial Transplant** 1989;4(8):721–4

Accumulation of 99mTc-DPD and 201TI in thyroid metastasis from carcinoid tumour. Vorne M, et al. **ROFO** 1990 Aug;153(2):219–20

[Dynamic scintigraphy with sodium 1-hydroxy-ethane-1,1 diphosphonate for the differential diagnosis of osteomalacia in patients in the terminal stage of chronic kidney failure] Novikov AI, et al. **Urol Nefrol (Mosk)** 1990 Mar–Apr; (2):11–5 (Eng. Abstr.) **(Rus)**

METABOLISM

The uptake of clodronate (dichloromethylene bisphosphonate) by macrophages in vivo and in vitro. Mönkkönen J, et al. **Drug Metab Dispos** 1989 Nov–Dec; 17(6):690–3

PHARMACOKINETICS

Pharmacokinetics of disodium clodronate after daily intravenous infusions during five consecutive days. Hanhijärvi H, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Dec;27(12):602–6

Comparison of the distribution of three bisphosphonates in mice. Mönkkönen J, et al. **Pharmacol Toxicol** 1990 Apr; 66(4):294–8

PHARMACOLOGY

Effects of bisphosphonates on cells of the mononuclear phagocyte system. Mian M, et al. **Acta Physiol Hung** 1990; 75 Suppl:209–10

Carbonyldiphosphonate, a selective inhibitor of mammalian

DNA polymerase delta. Talanian RV, et al. **Biochemistry** 1989 Oct 17;28(21):8270-4

Hyperostosis induced by the bisphosphonate (2-PEBP) in the oophorectomized rat. Movsowitz C, et al. **Calcif Tissue Int** 1990 Mar;46(3):195-9

Depletion and repopulation of macrophages in spleen and liver of rat after intravenous treatment with liposome-encapsulated dichloromethylene diphosphonate. Van Rooijen N, et al. **Cell Tissue Res** 1990 May; 260(2):215-22

Effects of propane-2, 2-diphosphonate (PDP) on matrix-induced ectopic bone formation in comparison to ethane-1-hydroxy-1, 1-diphosphonate (EHDP). Rüther W, et al. **Clin Orthop** 1990 Sep;(258):122-34

Antiresorptive dose-response relationships across three generations of bisphosphonates. Sietsema WK, et al. **Drugs Exp Clin Res** 1989;15(9):389-96

Effects of bisphosphonates on isolated rat osteoclasts as examined by reflected light microscopy. Sato M, et al. **J Bone Miner Res** 1990 Jan;5(1):31-40

Bisphosphonates directly inhibit the bone resorption activity of isolated avian osteoclasts in vitro. Carano A, et al. **J Clin Invest** 1990 Feb;85(2):456-61

The bisphosphonate 2-PEBP inhibits cyclosporin A induced high-turnover osteopenia in the rat. Movsowitz C, et al. **J Lab Clin Med** 1990 Jan;115(1):62-8

Repopulation of macrophages in popliteal lymph nodes of mice after liposome-mediated depletion. Delemarre FG, et al. **J Leukoc Biol** 1990 Mar;47(3):251-7

Bone resorption in orthotopic and heterotopic bone of dichloromethylene bisphosphonate-treated rats. Nilsson OS, et al. **J Orthop Res** 1990 Mar;8(2):213-9

Effects of a new bisphosphonate (AHBuBP) on osteolysis induced by human prostate cancer cells in nude mice. Nemoto R, et al. **J Urol** 1990 Sep;144(3):770-4

The effect of clodronate (dichloromethylene bisphosphonate) on fluoride kinetics during a 30-day treatment in the rat. Hyvönen PM, et al. **Proc Finn Dent Soc** 1989;85(6):429-33

Bisphosphonates in collagen arthritis. Markusse HM, et al. **Rheumatol Int** 1990;9(6):281-3

[Reaction of osseous tissue and the osteoclast population in rats to biphosphonates and vitamin D3 under conditions of hypokinesia] Gol'dovskaia MD, et al. **Kosm Biol Aviakosm Med** 1989 Aug-Sep;23(4):47-51 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Posttraumatic parathyroid crisis and severe hypercalcemia treated with intravenous bisphosphonate (APD). Case report. Canivet JL, et al. **Acta Anaesthesiol Belg** 1990; 41(1):47-50

(Chloro-4 phenyl) thiomethylene biphosphonate in Paget's bone disease. Reginster JY, et al. **Acta Belg Med Phys** 1989 Apr-Jun;12(2):47-52

Successful treatment of resistant Paget's disease of bone with pamidronate. Mallette LE. **Arch Intern Med** 1989 Dec; 149(12):2765-7

No effect of APD (amino hydroxypropylidene bisphosphonate) on hypercalcemia in patients with renal osteodystrophy. Hené RJ, et al. **Bone** 1990;11(1):15-20

Short-term effects on bone and mineral metabolism of 4-amino-1-hydroxybutylidene-1,1-diphosphonate (ABDP) in Paget's disease of bone. Pedrazzoni M, et al. **Bone Miner** 1989 Nov;7(3):301-7

Fast (4-h) or slow (24-h) infusions of pamidronate disodium (aminohydroxypropylidene diphosphonate (APD)) as single shot treatment of hypercalcaemia. Sawyer N, et al. **Bone Miner** 1990 May;9(2):121-8

Comparison of different dose regimes of aminohydroxypropylidene-1,1-bisphosphonate (APD) in hypercalcaemia of malignancy. Davis JR, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):269-74

Clodronate in hypercalcemia of malignancy. Bonjour JP, et al. **Calcif Tissue Int** 1990;46 Suppl:S20-5 (45 ref.)

Caries-preventive effect of fluoride dentifrices with and without anticalculus agents: a 3-year controlled clinical trial. Koch G, et al. **Caries Res** 1990;24(1):72-9

Treatment of Paget's disease of bone. Cantrill JA, et al. **Clin Endocrinol (Oxf)** 1990 Apr;32(4):507-18 (70 ref.)

Aminopropylidine diphosphonate (APD) in mild primary hyperparathyroidism: effect on clinical status. Schmidli RS, et al. **Clin Endocrinol (Oxf)** 1990 Mar;32(3):293-300

One-shot high-dose pamidronate disodium (APD): effective, simple treatment for hypercalcaemia in haematological malignancy. Sawyer N, et al. **Clin Lab Haematol** 1989; 11(3):179-84

Treatment of painful bone lesions and hypercalcemia. Ascari E, et al. **Eur J Haematol Suppl** 1989;51:135-9

Long-term effects of parenteral dichloromethylene bisphosphonate (CL2MBP) on bone disease of myeloma patients treated with chemotherapy. Merlini G, et al. **Hematol Oncol** 1990 Jan-Feb;8(1):23-30

Disodium pamidronate, bisphosphonate for malignant hypercalcaemia. Cantwell BM. **Ir Med J** 1990 Mar; 83(1):32-4 (28 ref.)

Improvement in the deformity of the face in Paget's disease treated with diphosphonates. Bickerstaff DR, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):132-6

Aminohydroxypropylidene bisphosphonate (APD) treatment for tumor-associated hypercalcemia: a randomized comparison between a 3-day treatment and single 24-hour infusions. Body JJ, et al. **J Bone Miner Res** 1989 Dec; 4(6):923-8

Treatment of Paget's disease of bone with aminohydroxybutylidene bisphosphonate. O'Doherty DP, et al. **J Bone Miner Res** 1990 May;5(5):483-91

Application of an in vitro model and a clinical protocol in the assessment of the potency of a new bisphosphonate. Papapoulos SE, et al. **J Bone Miner Res** 1989 Oct; 4(5):775-81

Prevention of glucocorticoid-induced osteoporosis. Reid IR, et al. **J Bone Miner Res** 1990 Jun;5(6):619-23

Response to retreatment of malignant hypercalcemia with the bisphosphonate AHPrBP (APD): respective role of kidney and bone. Thiebaud D, et al. **J Bone Miner Res** 1990 Mar;5(3):221-6

Aminohydroxybutane bisphosphonate inhibits bone loss due to immobilization in rats. Thompson DD, et al. **J Bone Miner Res** 1990 Mar;5(3):279-86

Anticancer-agent-linked phosphonates with antiosteolytic and antineoplastic properties: a promising perspective in the treatment of bone-related malignancies? Klenner T, et al. **J Cancer Res Clin Oncol** 1990;116(4):341-50

Radionuclide targeting of bone metastases: which efficacy? [letter] Leyvraz S, et al. **J Clin Oncol** 1990 Sep;8(9):1598-9

Use of diphosphonates in hypercalcaemia due to malignancy [letter; comment] Kanis JA, et al. **Lancet** 1990 Jan 20; 335(8682):170-1 Comment on: Lancet 1989 Nov 18;2(8673):1180-2.

Use of pamidronate for multiple myeloma osteolytic lesions [letter] Man Z, et al. **Lancet** 1990 Mar 17;335(8690):663

Short-term metabolic effects of pamidronate in patients with prostatic carcinoma and bone metastases [letter; comment] Pelger RC, et al. **Lancet** 1989 Oct 7;2(8667):865 Comment on: Lancet 1989 May 6;1(8645):1021-2.

Use of bisphosphonates in hypercalcaemia due to malignancy [letter] Ralston SH, et al. **Lancet** 1990 Mar 24;335(8691):737

Prevention of postmenopausal bone loss by tiludronate. Reginster JY, et al. **Lancet** 1989 Dec 23-30; 2(8678-8679):1469-71

Immobilization hypercalcaemia responding to intravenous pamidronate sodium therapy. McIntyre HD, et al. **Postgrad Med J** 1989 Apr;65(762):244-6

Clinical experience with aminohydroxypropylidene bisphosphonate (APD) in the management of cancer-associated hypercalcaemia. Ralston SH, et al. **Q J Med** 1988 Oct;68(258):825-34

[The association of algodystrophy and Lobstein's disease. Possible value of 3-amino-1-hydroxypropane-1,1-diphosphonic acid] Laroche M, et al. **Rev Rhum Mal Osteoartic** 1990 Mar; 57(3):221-2 **(Fre)**

[Monotherapy with clodronate for tumor-induced hypercalcemia] Harjung H, et al. **Dtsch Med Wochenschr** 1990 Jan 12;115(2):48-52 (Eng. Abstr.) **(Ger)**

[Perspectives on therapy with diphosphonates in non-malignant diseases] Willvonseder R, et al. **Z Gerontol** 1990 Jan-Feb;23(1):39-42 (11 ref.) (Eng. Abstr.) **(Ger)**

[Diphosphonates and primary hyperparathyroidism] Conte N, et al. **Ann Ital Med Int** 1988 Oct-Dec;3(4):278-82 (Eng. Abstr.) **(Ita)**

[Establishment of a model to evaluate inhibition of bone resorption induced by bladder tumor (MBT-2) in mice] Nishijima Y, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 May;81(5):694-700 (Eng. Abstr.) **(Jpn)**

[Reaction of osseous tissue and the osteoclast population in rats to biphosphonates and vitamin D3 under conditions of hypokinesia] Gol'dovskaia MD, et al. **Kosm Biol Aviakosm Med** 1989 Aug-Sep;23(4):47-51 (Eng. Abstr.) **(Rus)**

[Changes in the periodontium in prolonged hypodynamia and the use of biphosphanates and silatrane for the purpose of their prevention] Volozhin AI, et al. **Patol Fiziol Eksp Ter** 1989 May-Jun;(3):72-5 (Eng. Abstr.) **(Rus)**

[Use of xidifon for prevention and treatment of nephropathies with metabolic disorders in children] Korovina NA, et al. **Pediatriia** 1990;(2):36-40 (Eng. Abstr.) **(Rus)**

[Treatment of Paget's disease with AHPrBP (letter)] Rapado A, et al. **Rev Clin Esp** 1989 Dec;185(9):480-1 **(Spa)**

[A new osteoclast inhibitor is useful in the treatment of severe hypercalcemia] Jansson S, et al. **Lakartidningen** 1990 Jul 25;87(30-31):2421-4 **(Swe)**

DIPHOSPHOPYRIDINE NUCLEOTIDE see NAD

DIPHTHERIA

Diphtheria: experience in a general hospital. Tee LK. **Med J Malaysia** 1989 Mar;44(1):41-4

COMPLICATIONS

Fulminant diptheretic myocarditis. Havaldar PV, et al. **Indian Heart J** 1989 Jul-Aug;41(4):265-9

Diphtheritic conjunctivitis. A rare case report in Indian literature [letter] Boralkar AN. **Indian J Ophthalmol** 1989 Jan-Mar;37(1):49-50

Ventricular tachycardia in children with diphtheritic myocarditis. Samik Wahab A. **Paediatr Indones** 1989 Sep-Oct;29(9-10):182-7

DIAGNOSIS

[Diagnosis of diphtheria] Otani S. **Nippon Rinsho** 1990 Feb; 48 Suppl:391-4 **(Jpn)**

[A case of diphtheria in a young man] Knap J, et al. **Przegl Epidemiol** 1989;43(3):331-4 (Eng. Abstr.) **(Pol)**

[The use of medium 199 in the bacteriological diagnosis of diphtheria] Baturina AV, et al. **Lab Delo** 1990;(1):69-70 **(Rus)**

DRUG THERAPY

Therapeutic value of corticosteroid hormone in the treatment of diphtheria. Rub MA, et al. **Bangladesh Med Res Counc Bull** 1989 Jun;15(1):38-41

ENZYMOLOGY

[Protective lysosomal autoregulatory mechanism and its disorders in diphtheric intoxication] Frolov VA, et al. **Biull Eksp Biol Med** 1990 May;109(5):434-6 (Eng. Abstr.) **(Rus)**

[Changes in the activity of lysosomal enzymes and in the indices of cardiac contractile function in experimental diphtheria poisoning in rabbits] Frolov VA, et al. **Patol Fiziol Eksp Ter** 1990 Mar-Apr;(2):8-10 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

The changing age structure of diphtheria patients: evidence for the effectiveness of EPI in the Sudan. Loevinsohn BP. **Bull World Health Organ** 1990;68(3):353-7

Study of diphtheria carriers in Miraj. Udgaonkar US, et al. **Indian Pediatr** 1989 May;26(5):435-9

Diphtheria in Stockholm, with a theory concerning transmission. Christenson B, et al. **J Infect** 1989 Sep; 19(2):177-83

Expanded programme on immunization. Diphtheria control. **Wkly Epidemiol Rec** 1990 Feb 9;65(6):41-2 **(Eng, Fre)**

[A report of an outbreak of diphtheria in Anshan area] Liang Y. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec; 10(6):331-2 (Eng. Abstr.) **(Chi)**

HISTORY

Diphtheria and medical therapy in late 19th century New York City. Quiroga VA. **N Y State J Med** 1990 May; 90(5):256-62

IMMUNOLOGY

Immunity against diphtheria in adults in Poland. Galazka A, et al. **Epidemiol Infect** 1989 Dec;103(3):587-93

Immune status and booster effects of low doses of diphtheria toxoid in Swedish medical personnel. Björkholm B, et al. **Scand J Infect Dis** 1989;21(4):429-34

Immunity to diphtheria in a sample of adult population from central Italy. Cellesi C, et al. **Vaccine** 1989 Oct;7(5):417-20

Durability of immunity to diphtheria, tetanus and poliomyelitis after a three dose immunization schedule completed in the first eight months of life. Jones AE, et al. **Vaccine** 1989 Aug;7(4):300-2

MICROBIOLOGY

ACP Broadsheet no 125: July 1990. Bacteriological diagnosis of diphtheria. Brooks R, et al. **J Clin Pathol** 1990 Jul; 43(7):576-80

[Corynebacteria of the JK group and their sensitivity to antibacterial drugs] Kocherovets VI, et al. **Antibiot Khimioter** 1990 Mar;35(3):47-50 (45 ref.) **(Rus)**

PREVENTION & CONTROL

A report of the investigation and control measures instituted after the isolation of toxin-producing Corynebacterium diphtheriae mitis from a child in Leeds. Hatton P. **Community Med** 1989 Nov;11(4):316-9

[Vaccination against diphtheria and tetanus of children with thymus hyperplasia syndrome] Ozeretskovskiĭ NA, et al. **Pediatriia** 1989;(9):26-31 (Eng. Abstr.) **(Rus)**

DIPHTHERIA ANTITOXIN

ANALYSIS

Immunity to diphtheria in a sample of adult population from central Italy. Cellesi C, et al. **Vaccine** 1989 Oct;7(5):417-20

[Simultaneous titration of antitoxic antibodies against tetanus and diphtheria using the passive hemagglutination reaction in a single series of diluted sera] Kasymov K. **Lab Delo** 1990;(2):76 **(Rus)**

BLOOD

[A method of determining diphtheria antitoxin in the blood using laser nephelometry] Vinnik EM, et al. **Lab Delo** 1990; (4):68-70 **(Rus)**

DIPHTHERIA-PERTUSSIS-TETANUS VACCINE see DIPHTHERIA-TETANUS-PERTUSSIS VACCINE

DIPHTHERIA-TETANUS-PERTUSSIS VACCINE

Expert examination of the immunogenic activity and toxicity

of the pertussis component of adsorbed and non-adsorbed diphtheria-tetanus-pertussis vaccines. Results of interlaboratory investigations under the WHO project "Reactogenicity and Toxicity of DPT Vaccines". Bytchenko BD, et al.
J Hyg Epidemiol Microbiol Immunol 1989;33(4):453-62

Pertussis in a previously immunized child with human immunodeficiency virus infection. Adamson PC, et al.
J Pediatr 1989 Oct;115(4):589-92

Routine simultaneous administration of childhood vaccines [letter; comment] Damon RA. **JAMA** 1990 Jan 26; 263(4):516 Comment on: JAMA 1989 Jul 14;262(2):187-91.

Immunization program among primary school pupils (experience in Paya Bakung village, North Aceh). Lubis CP, et al. **Paediatr Indones** 1987 Nov-Dec; 27(11-12):209-15

[Safety and effectiveness of the diphtheria-pertussis-tetanus vaccine (editorial)] Avila-Figueroa C, et al.
Bol Med Hosp Infant Mex 1990 May;47(5):293-4 (Spa)

ADMINISTRATION & DOSAGE

Pertussis immunization in eight-month-old children in North Carolina. Clements DA, et al. **Am J Public Health** 1990 Jun;80(6):734-6

Implementation of universal immunization programme in two districts. Kapil U, et al. **Indian Pediatr** 1989 Aug; 26(8):817-20

BCG, DPT & OPV immunization [letter] Ramachandran C. **Indian Pediatr** 1989 Dec;26(12):1268-9

Influence of immunization schedule on immunization coverage. Chen ST. **J Trop Med Hyg** 1989 Dec; 92(6):386-90

Effect of needle change and air bubble in syringe on minor adverse reactions associated with diphtheria-tetanus toxoids-pertussis-polio vaccination in infants. Ipp M, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):291-3

Immunizations to the deltoid region [letter; comment] Bergeson PS. **Pediatrics** 1990 Jan;85(1):134-5 Comment on: Pediatrics 1989 May;83(5):679-82.

Half-dose immunization for diphtheria, tetanus, pertussis [letter; comment] Rogers WB. **Pediatrics** 1990 Jul; 86(1):144-5 Comment on: Pediatrics 1989 Apr;83(4):471-6.

The delayed immunization of children of migrant farm workers in South Carolina. Lee CV, et al.
Public Health Rep 1990 May-Jun;105(3):317-20

Durability of immunity to diphtheria, tetanus and poliomyelitis after a three dose immunization schedule completed in the first eight months of life. Jones AE, et al. **Vaccine** 1989 Aug;7(4):300-2

[Vaccination coverage of 2-year-old children: a cross-sectional study in the city of Barcelona] Villalbí Heréter JR, et al. **An Esp Pediatr** 1990 Apr;32(4):321-4 (Eng. Abstr.) (Spa)

ADVERSE EFFECTS

DTP vaccine litigation, 1988 [letter] Orenstein WA.
Am J Dis Child 1990 May;144(5):517

Monitoring the safety of childhood immunizations: methods of linking and augmenting computerized data bases for epidemiologic studies. Griffin MR, et al.
Am J Prev Med 1988;4(2 Suppl):5-13

Family history of convulsions and use of pertussis vaccine. Livengood JR, et al. **J Pediatr** 1989 Oct;115(4):527-31

Risk of seizures and encephalopathy after immunization with the diphtheria-tetanus-pertussis vaccine [see comments] Griffin MR, et al. **JAMA** 1990 Mar 23-30;263(12):1641-5 Comment in: JAMA 1990 Mar 23-30;263(12):1679-80.

Longitudinal study of adverse reactions following diphtheria-tetanus-pertussis vaccine in infancy. Long SS, et al. **Pediatrics** 1990 Mar;85(3):294-302

An ongoing surveillance study of persistent crying and hypotonic-hyporesponsive episodes following routine DTP immunization: a preliminary report. Blumberg DA, et al. **Tokai J Exp Clin Med** 1988;13 Suppl:133-6

A neurologist looks at neurological disease temporally related to DTP immunization. Stephenson JB.
Tokai J Exp Clin Med 1988;13 Suppl:157-64 (29 ref.)

[Side effects of preventive triple immunization—25 years experiences] Dittmann S, et al. **Z Arztl Fortbild (Jena)** 1990; 84(8):355-6 (Ger)

[Acute cerebellar ataxia and facial palsy after DPT immunization] Katafuchi Y, et al. **No To Hattatsu** 1989 Sep;21(5):465-9 (Eng. Abstr.) (Jpn)

[Effectiveness of oxygen-vitamin cocktails in preventing anemia, rickets, post-vaccinal complications and the risk of perinatal pathology in infants] Filosofova MS, et al.
Gematol Transfuziol 1990 Jan;35(1):16-8 (Eng. Abstr.) (Rus)

[Benign intracranial hypertension caused by DTP and polio immunization] Castillo Salinas F, et al. **An Esp Pediatr** 1990 May;32(5):466-7 (Spa)

[Side effects of the vaccine against diphtheria, tetanus and whooping cough] Regalado ME, et al.
Bol Med Hosp Infant Mex 1990 May;47(5):295-303 (Eng. Abstr.) (Spa)

IMMUNOLOGY

Comparison of acellular and whole-cell pertussis-component DTP vaccines. A multicenter double-blind study in 4- to 6-year-old children. Morgan CM, et al.
Am J Dis Child 1990 Jan;144(1):41-5

Comparison of an acellular pertussis-component diphtheria-tetanus-pertussis (DTP) vaccine with a whole-cell pertussis-component DTP vaccine in 17- to 24-month-old children, with measurement of 69-kilodalton outer membrane protein antibody. Blumberg DA, et al.
J Pediatr 1990 Jul;117(1 Pt 1):46-51

Studies on Pneumococcus vaccine alone or mixed with DTP and on Pneumococcus type 6B and Haemophilus influenzae type b capsular polysaccharide-tetanus toxoid conjugates in two- to five-year-old children with sickle cell anemia [published erratum appears in Pediatr Infect Dis J 1990 May;9(5):308] Sarnaik S, et al. **Pediatr Infect Dis J** 1990 Mar;9(3):181-6

Febrile response in malnutrition. Doherty JF, et al.
West Indian Med J 1989 Dec;38(4):209-12

Changes of tetanus specific IgG, IgM and IgG subclasses after DPT vaccination. Kim JS, et al. **Yonsei Med J** 1989; 30(2):158-63

[The immunologic impact and adverse effects of simultaneous inoculation with DPT and BCG vaccines] Xu TQ.
Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih 1990 Feb; 13(1):39-41, 63 (Eng. Abstr.) (Chi)

STANDARDS

Protective efficacy of the Takeda acellular pertussis vaccine combined with diphtheria and tetanus toxoids following household exposure of Japanese children. Mortimer EA Jr, et al. **Am J Dis Child** 1990 Aug;144(8):899-904

Effect of different concentrations of diphtheria toxoid & aluminum phosphate on potency of diphtheria component in DPT vaccines. Gupta P, et al. **Indian J Med Res** 1990 May;91:171-3

THERAPEUTIC USE

Preliminary report on household contact studies of the prevention of pertussis in Japanese children by Takeda diphtheria and tetanus toxoids and acellular pertussis vaccine combined. Mortimer EA Jr.
Tokai J Exp Clin Med 1988;13 Suppl:29-34

TOXICITY

Testing of adsorbed diphtheria-pertussis-tetanus (DPT) vaccine for freedom from abnormal toxicity. Bhandari SK, et al. **Vaccine** 1990 Apr;8(2):105-6

DIPHTHERIA TOXIN

Selective immunotoxins prepared with mutant diphtheria toxins coupled to monoclonal antibodies. Colombatti M, et al. **Methods Enzymol** 1989;178:404-22

ADMINISTRATION & DOSAGE

Development of a diphtheria toxin mutant conjugate directed against antigen-specific B cells expressing high affinity surface Ig. Marsh JW, et al. **J Immunol** 1990 Feb 1; 144(3):1046-51

ANALYSIS

Detection of diphtheria toxin in culture supernates of Corynebacterium diphtheriae and C. ulcerans by immunoassay with monoclonal antibody. Hallas G, et al. **J Med Microbiol** 1990 Aug;32(4):247-53

BIOSYNTHESIS

Production of diphtheria toxin CRM228 in B. subtilis. Hemilä H, et al. **FEMS Microbiol Lett** 1989 Nov;53(1-2):193-8

[The use of DNA fingerprint analysis for the differentiation of populations of toxigenic Corynebacterium diphtheriae] Bobkova MR, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Jul;(7):28-30 (Eng. Abstr.) (Rus)

GENETICS

Cell lineage ablation in transgenic mice by cell-specific expression of a toxin gene. **Cell** 1990 Aug 10;62(3):609

A point mutation of proline 308 in diphtheria toxin B chain inhibits membrane translocation of toxin conjugates. Johnson VG, et al. **J Biol Chem** 1989 Oct 25; 264(30):17739-44

Genetic ablation in transgenic mice with an attenuated diphtheria toxin A gene. Breitman ML, et al.
Mol Cell Biol 1990 Feb;10(2):474-9

Molecular cloning and DNA sequence analysis of a diphtheria tox iron-dependent regulatory element (dtxR) from Corynebacterium diphtheriae. Boyd J, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(15):5968-72

IMMUNOLOGY

Antibody-secreting peripheral blood lymphocytes induced by immunization with a conjugate consisting of Streptococcus pneumoniae type 12F polysaccharide and diphtheria toxoid. Lue C, et al. **Infect Immun** 1990 Aug; 58(8):2547-54

Preparation of a diphtheria toxin-pullulan conjugate that elicits good IgG antibody production with poor IgE synthesis. Yamaya S, et al. **Vaccine** 1990 Feb;8(1):65-9

METABOLISM

Utilization of 2'-deoxynad for ADP-ribose transfer reactions. Wasson DB, et al. **Adv Exp Med Biol** 1989;253B:213-8

Membrane interactions of diphtheria toxin analyzed using in vitro synthesized mutants. McGill S, et al. **EMBO J** 1989 Oct;8(10):2843-8

Permeabilization of the plasma membrane by deletion mutants of diphtheria toxin. Stenmark H, et al. **EMBO J** 1989 Oct; 8(10):2849-53

Characterization of the deoxyribonuclease activity of diphtheria toxin. Nakamura LT, et al. **J Biol Chem** 1990 Mar 25;265(9):5237-41

Localization of the diphtheria toxin receptor-binding domain to the carboxyl-terminal Mr approximately 6000 region of the toxin. Rolf JM, et al. **J Biol Chem** 1990 May 5; 265(13):7331-7

Structure/function analysis of interleukin-2-toxin (DAB486-IL-2). Fragment B sequences required for the delivery of fragment A to the cytosol of target cells. Williams DP, et al. **J Biol Chem** 1990 Jul 15; 265(20):11885-9

Diphtheria toxin and its ADP-ribosyltransferase-defective homologue CRM197 possess deoxyribonuclease activity. Bruce C, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(8):2995-8

Second cytotoxic pathway of diphtheria toxin suggested by nuclease activity. Chang MP, et al. **Science** 1989 Dec 1; 246(4934):1165-8

Histidine-21 is involved in diphtheria toxin NAD+ binding. Papini E, et al. **Toxicon** 1990;28(6):631-5

Cellular regulation of diphtheria toxin cell surface receptors. Rönnberg BJ, et al. **Toxicon** 1989;27(12):1377-88

PHARMACOLOGY

Heterogeneity of the toxic mechanisms of methylthioadenosine in methylthioadenosine phosphorylase deficient murine lymphoma cells. Yamanaka H, et al.
Adv Exp Med Biol 1989;253B:193-9

Morphometric evidence from C-synapses for phased Nissl body response in alpha-motoneurones retrogradely intoxicated with diphtheria toxin. Pullen AH. **Brain Res** 1990 Feb 12;509(1):8-16

Interleukin 2 receptor-targeted cytotoxicity. Receptor binding requirements for entry of a diphtheria toxin-related interleukin 2 fusion protein into cells. Waters CA, et al. **Eur J Immunol** 1990 Apr;20(4):785-91

Fragment A of diphtheria toxin causes pH-dependent lesions in model membranes. Jiang GS, et al. **J Biol Chem** 1989 Oct 15;264(29):17170-3

Action of diphtheria toxin does not depend on the induction of large, stable pores across biological membranes. Alder GM, et al. **J Membr Biol** 1990 Jan;113(1):67-74

Diphtheria toxin effects on brain-tumor xenografts. Implications for protein-based brain-tumor chemotherapy. Wrobel CJ, et al. **J Neurosurg** 1990 Jun;72(6):946-50

Isolation of diphtheria toxin-sensitive mouse cells from a toxin-resistant population transfected with monkey DNA. Naglich JG, et al. **Proc Natl Acad Sci U S A** 1990 Sep; 87(18):7250-4

Sequential effects of interleukin 2-diphtheria toxin fusion protein on T-cell activation. Walz G, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(23):9485-8

A kinetic analysis of the effects of interleukin-2 diphtheria toxin fusion protein upon activated T cells. Walz G, et al. **Transplantation** 1990 Jan;49(1):198-201

THERAPEUTIC USE

The effect of immunotoxin against human glioma cells. Manome Y, et al. **Neurochirurgia (Stuttg)** 1989 Sep; 32(5):146-9

TOXICITY

Study on the variables affecting toxicity of hybrid toxins. The effect of different target cell receptor distribution and toxin binding chain. Chang TM, et al.
Biochim Biophys Acta 1989 Oct 9;1013(3):239-46

Comparison of the intoxication pathways of tumor necrosis factor and diphtheria toxin. Chang MP, et al.
Infect Immun 1990 Aug;58(8):2644-50

Diphtheria toxin mutant selectively kills cerebellar Purkinje neurons. Riedel CJ, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5051-5

Monoclonal antibodies against Vero cells that protect against diphtheria toxin. Rönnberg BJ, et al. **Toxicon** 1989; 27(10):1095-104

DIPHTHERIA TOXOID

Background and indications for Haemophilus influenzae type b vaccines consisting of capsular antigen coupled to protein carriers. Anderson PW Jr, et al.
Contrib Microbiol Immunol 1989;10:115-24 (31 ref.)

Diphtheria, tetanus, and pertussis immunizations in adults. Edwards KM. **Infect Dis Clin North Am** 1990 Mar; 4(1):85-103 (109 ref.)

Cost-benefit analysis of Haemophilus influenzae type b prevention: conjugate vaccination at eighteen months of age. Hay JW, et al. **Pediatr Infect Dis J** 1990 Apr; 9(4):246-52

Antigenuria after receipt of Haemophilus b diphtheria toxoid conjugate vaccine. Scheifele D, et al.

Pediatr Infect Dis J 1989 Dec;8(12):887–8
Clinical experience with Haemophilus influenzae type b conjugate vaccines. Mäkelä PH, et al. **Pediatrics** 1990 Apr; 85(4 Pt 2):651–3 (21 ref.)
Commentary: results of efficacy trials in Alaska and Finland of Haemophilus influenzae type b conjugate vaccine. Ward J. **Pediatrics** 1990 Apr;85(4 Pt 2):667
Immunogenicity of Haemophilus influenzae type b polysaccharide–protein conjugate vaccines in children with conditions associated with impaired antibody responses to type b polysaccharide vaccine. Weinberg GA, et al. **Pediatrics** 1990 Apr;85(4 Pt 2):654–61 (46 ref.)
[The relationships between antitoxic titers determined in a group of young people before and after booster ADT by the in vivo neutralization test. Comparative NT–PHAR evaluations] Durbacă S, et al. **Arch Roum Pathol Exp Microbiol** 1989 Apr–Jun; 48(2):135–46 (Eng. Abstr.) (Fre)
[The clinical course of allergic diseases in children and the T-lymphocyte dynamics with adsorbed DT-m vaccination against a background of drug therapy] Fedorova OE, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):90–3 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Diphtheria–tetanus overimmunization in children with no records: can it be prevented? Frank JW, et al. **Can Med Assoc J** 1989 Dec 15;141(12):1241–6
Effectiveness of Haemophilus influenzae type b vaccines. Stieb DM, et al. **Can Med Assoc J** 1990 Apr 1;142(7):719–33 (85 ref.)
Safety, tolerability, and immunogenicity of concurrent administration of Haemophilus influenzae type b conjugate vaccine (meningococcal protein conjugate) with either measles–mumps–rubella vaccine or diphtheria–tetanus–pertussis and oral poliovirus vaccines in 14- to 23-month-old infants. Dashefsky B, et al. **Pediatrics** 1990 Apr;85(4 Pt 2):682–9
Immune status and booster effects of low doses of diphtheria toxoid in Swedish medical personnel. Björkholm B, et al. **Scand J Infect Dis** 1989;21(4):429–34
Durability of immunity to diphtheria, tetanus and poliomyelitis after a three dose immunization schedule completed in the first eight months of life. Jones AE, et al. **Vaccine** 1989 Aug;7(4):300–2
[Tetravalent diphtheria, tetanus, pertussis and inactivated poliomyelitis vaccine] Fillastre C, et al. **Arch Fr Pediatr** 1989 Nov;46(9):693–700 (Eng. Abstr.) (Fre)
[The relationships between antitoxic titers determined in a group of young people before and after booster ADT by the in vivo neutralization test. Comparative NT–PHAR evaluations] Durbacă S, et al. **Arch Roum Pathol Exp Microbiol** 1989 Apr–Jun; 48(2):135–46 (Eng. Abstr.) (Fre)
[The immunological effectiveness of small doses of diphtheria and tetanus anatoxins in the revaccination of children with allergy-altered reactivity and adults] Egor'kov NA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):47–52 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Diphtheria and tetanus vaccine: a comparative study of reactogenicity. Bryett KA, et al. **Br J Clin Pract** 1989 Feb; 43(2):52–4
Post-marketing surveillance of adverse events following ProHIBit vaccine—British Columbia. Meekison W, et al. **Can Dis Wkly Rep** 1989 Jul 15;15(28):143–5 (Eng, Fre)
Postmarketing surveillance of adverse reactions to ProHIBit vaccine in British Columbia. **Can Med Assoc J** 1989 Nov 1;141(9):927–9

ANALYSIS

[Study of diphtheria and tetanus anatoxins by electrofocusing on an agarose gel] Bourleaud J. **J Biol Stand** 1989 Oct; 17(4):343–52 (Fre)

IMMUNOLOGY

Haemophilus influenzae diphtheria protein conjugate immunization after therapy in splenectomized patients with Hodgkin disease. Jakacki R, et al. **Ann Intern Med** 1990 Jan 15;112(2):143–4
Responses to rubella, tetanus, and diphtheria vaccines in otitis-prone and non-otitis-prone children. Prellner K, et al. **Ann Otol Rhinol Laryngol** 1990 Aug;99(8):628–32
Quantitative estimation of diphtheria and tetanus toxoids. 4. Toxoids as international reference materials defining Lf-units for diphtheria and tetanus toxoids. Lyng J. **Biologicals** 1990 Jan;18(1):11–7
Immune response of young children vaccinated with Haemophilus influenzae type b conjugate vaccines. Madore DV, et al. **Contrib Microbiol Immunol** 1989;10:125–50 (105 ref.)
Kinetic of the antibody titers to tetanus toxoid (TT), diphtheria toxoid (DT), measles virus, poliomyelitis virus and S. pneumoniae after marrow grafting. Prager J, et al. **Folia Haematol (Leipz)** 1989;116(3–4):533–40
Effect of different concentrations of diphtheria toxoid & aluminum phosphate on potency of diphtheria component in DPT vaccines. Gupta P, et al. **Indian J Med Res** 1990 May;91:171–3
Response to a Haemophilus influenzae type b diphtheria CRM197 conjugate vaccine in children with a defect of antibody production to Haemophilus influenzae type b polysaccharide. Schneider LC, et al. **J Allergy Clin Immunol** 1990 May;85(5):948–53
The use of the Toxin Binding Inhibition (ToBI) test for the estimation of the potency of the diphtheria component of vaccines. Hendriksen CF, et al. **J Biol Stand** 1989 Jul; 17(3):241–7
In vitro induction of a diphtheria toxoid specific antibody response in human peripheral blood lymphocytes cultivated in the presence of diphtheria toxoid. Loggen HG, et al. **J Biol Stand** 1989 Oct;17(4):311–9
Comparison of immune responses to diphtheria and tetanus toxoids of various mouse strains. Kameyama S, et al. **Jpn J Med Sci Biol** 1989 Jun;42(3):83–99
Effect of breast-feeding on antibody response to conjugate vaccine. Pabst HF, et al. **Lancet** 1990 Aug 4; 336(8710):269–70
Persistence of antibody and booster responses to reimmunization with Haemophilus influenzae type b polysaccharide and polysaccharide diphtheria toxoid conjugate vaccines in children initially immunized at 15 to 24 months of age. Berkowitz CD, et al. **Pediatrics** 1990 Mar;85(3):288–93
Immunogenicity of Haemophilus influenzae oligosaccharide–protein and polysaccharide–protein conjugate vaccination of children at 4, 6, and 14 months of age. Käyhty H, et al. **Pediatrics** 1989 Dec;84(6):995–9
Safety and immunologic response to Haemophilus influenzae type b oligosaccharide–CRM197 conjugate vaccine in 1- to 6-month-old infants. Madore DV, et al. **Pediatrics** 1990 Mar;85(3):331–7
Preparation of a diphtheria toxin–pullulan conjugate that elicits good IgG antibody production with poor IgE synthesis. Yamaya S, et al. **Vaccine** 1990 Feb;8(1):65–9
[Vaccination against diphtheria and tetanus of children with thymus hyperplasia syndrome] Ozeretskovskiĭ NA, et al. **Pediatriia** 1989;(9):26–31 (Eng. Abstr.) (Rus)
[Use of adsorbed diphtheria–tetanus (DT) toxoid containing different doses of antigens in booster immunizations of children] Egor'kov NA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jun;(6):47–52 (Eng. Abstr.) (Rus)

THERAPEUTIC USE

Protective efficacy of Haemophilus influenzae type b polysaccharide–diphtheria toxoid–conjugate vaccine. Nelson WL, et al. **Am J Dis Child** 1990 Mar;144(3):292–5
The changing age structure of diphtheria patients: evidence for the effectiveness of EPI in the Sudan. Loevinsohn BP. **Bull World Health Organ** 1990;68(3):353–7
Expanded programme on immunization. Diphtheria control. **Wkly Epidemiol Rec** 1990 Feb 9;65(6):41–2 (Eng, Fre)
[The clinical course of allergic diseases in children and the T-lymphocyte dynamics with adsorbed DT-m vaccination against a background of drug therapy] Fedorova OE, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):90–3 (Eng. Abstr.) (Rus)

DIPHTHERIA VACCINE see **DIPHTHERIA TOXOID**

DIPHYLLOBOTHRIASIS

EPIDEMIOLOGY

[Epidemiologic characteristics of diphyllobothriasis in the lower Amur River valley] Muratov IV, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):53–7 (Eng. Abstr.) (Rus)
[The spread and evaluation of the potential for the formation of new foci of opisthorchiasis and diphyllobothriasis in the Yenisei basin] Ploshcheva GL, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):54–60 (Eng. Abstr.) (Rus)
[An evaluation using an information analysis method of the environmental factors affecting the diphyllobothriasis situation in water reservoirs] Ploshcheva GL, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):60–3 (Eng. Abstr.) (Rus)
[Infection by Diphyllobothrium pacificum, probably acquired in the South of Chile, in a 3-year-old child] Mercado R, et al. **Bol Chil Parasitol** 1988 Jul–Dec;43(3–4):54–6 (Eng. Abstr.) (Spa)
[Epidemiology of diphyllobothriasis in the Valdivia river basin, Chile] Torres P, et al. **Rev Saude Publica** 1989 Feb; 23(1):45–57 (Eng. Abstr.) (Spa)

PARASITOLOGY

Ultrastructural studies on the plerocercoid of Spirometra erinacei in experimental sparganosis. Osaki Y. **Parasitol Res** 1990;76(6):466–72
[Eight cases of diphyllobothriasis] Ebe T, et al. **Kansenshogaku Zasshi** 1990 Mar;64(3):328–34 (Eng. Abstr.) (Jpn)

PHYSIOPATHOLOGY

[The functional status of the small intestine and lipid metabolism in diphyllobothriasis patients] Mikhallova IuM, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):31–3 (Eng. Abstr.) (Rus)

VETERINARY

Spirometra sp. in a domestic cat in India. Saleque A, et al. **Vet Parasitol** 1990 Mar;35(3):273–6
[Fishes in the lower reaches of the Ob River studied for their infectiousness with helminth larvae of medical significance] Artamoshin AS, et al. **Med Parazitol (Mosk)** 1990 Jan–Feb;(1):40–1 (Eng. Abstr.) (Rus)

DIPHYLLOBOTHRIUM

ISOLATION & PURIFICATION

[A human infection of the cestode, Diphyllobothrium nihonkaiense Yamane et al., 1986] Lou YS, et al. **Fukuoka Igaku Zasshi** 1989 Sep;80(9):446–50 (Eng. Abstr.) (Jpn)
[Epidemiology of diphyllobothriasis in the Valdivia river basin, Chile] Torres P, et al. **Rev Saude Publica** 1989 Feb; 23(1):45–57 (Eng. Abstr.) (Spa)

PHYSIOLOGY

[The survival of Diphyllobothrium dendriticum pleurocercoids during the processing of fish and sanitary helminthologic evaluation of the product] Pronin NM, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):57–60 (Eng. Abstr.) (Rus)
[Infection by Diphyllobothrium pacificum, probably acquired in the South of Chile, in a 3-year-old child] Mercado R, et al. **Bol Chil Parasitol** 1988 Jul–Dec;43(3–4):54–6 (Eng. Abstr.) (Spa)
[Experimental evolutive cycle of Diphyllobothrium erinaceieuropei in Paracyclops fimbriatus, tadpoles of Bufo arenarum and dogs] Venturini L. **Rev Inst Med Trop Sao Paulo** 1989 Sep–Oct;31(5):308–12 (Eng. Abstr.) (Spa)

DIPLOCOCCUS PNEUMONIAE see **STREPTOCOCCUS PNEUMONIAE**

DIPLOIDY

Microencapsulation of human diploid fibroblasts in cationic polyacrylates. Mallabone CL, et al. **Biomaterials** 1989 Aug; 10(6):380–6
Favorable prognosis associated with hyperdiploidy in children with acute lymphocytic leukemia correlates with extra chromosome 6. A Pediatric Oncology Group study. Jackson JF, et al. **Cancer** 1990 Sep 15;66(6):1183–9
Diploid predominance in hereditary nonpolyposis colorectal carcinoma evaluated by flow cytometry. Kouri M, et al. **Cancer** 1990 Apr 15;65(8):1825–9
Abnormal DNA ploidy and proliferative patterns in superficial colonic epithelium adjacent to colorectal cancer. Ngoi SS, et al. **Cancer** 1990 Sep 1;66(5):953–9
Near-diploid tumor cell lines for cancer research. Parsons DF. **Cancer Cells** 1989 Nov;1(3):96–8 (53 ref.)
SK-UT-1B cell line has the diploid karyotype. A reply [letter] Chen TR. **Cancer Genet Cytogenet** 1990 Aug 1; 48(1):139–41
Comparison of anatomical location of squamous cell carcinoma within the oral cavity and oropharynx with the incidence of in vitro hyperdiploidy. Danes BS, et al. **Clin Genet** 1990 Mar;37(3):188–93
Post-implantation development and cytogenetic analysis of diandric heterozygous diploid mouse embryos. Kaufman MH, et al. **Cytogenet Cell Genet** 1989;52(1–2):15–8
Coordinate control of growth arrest states in normal human diploid fibroblasts: effect of cloned SV40 tumor antigen genes. Donahue LM, et al. **Exp Cell Res** 1989 Oct; 184(2):297–303
"Alternative self-diploidization" or "ASD" homothallism in Saccharomyces cerevisiae: isolation of a mutant, nuclear-cytoplasmic interaction and endomitotic diploidization. Ono B, et al. **Genetics** 1990 Aug; 125(4):729–38
Differential limb regeneration in diploid and triploid Rana pipiens larvae with reference to spinal motor neuron development. Pollack ED, et al. **J Exp Zool** 1990 Jun; 254(3):276–85
The limited proliferation of cultured human diploid cells: regulation or senescence? Holliday R. **J Gerontol** 1990 Mar; 45(2):B36–41 (59 ref.)
Comparison of image analysis of imprints with flow cytometry for DNA analysis of solid tumors. Claud RD 3d, et al. **Mod Pathol** 1989 Sep;2(5):463–7
Genetic evidence that metacyclic forms of Trypanosoma brucei are diploid. Tait A, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):247–55
Inference of haplotypes from PCR-amplified samples of diploid populations. Clark AG. **Mol Biol Evol** 1990 Mar; 7(2):111–22 (25 ref.)
Sex in diploids [letter; comment] **Nature** 1989 Nov 16; 342(6247):231–2 Comment on: Nature 1989 May 25;339(6222):300–1.
Normal diploid human and rodent cells lack a detectable frequency of gene amplification. Tlsty TD. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3132–6
[Comparative study on chromosome C-banding in diploid and triploid types of Paragonimus westermani] Zhao JB, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung**

Ping Tsa Chih 1989;7(2):103–4 (Eng. Abstr.) (Chi)
[Relative competitiveness of haploid and diploid yeast cells growing in a mixed population] Glazunov AV, et al. Mikrobiologiia 1989 Sep–Oct;58(5):769–77 (Eng. Abstr.) (Rus)
[Activity of endopolygalacturonase in culture fluid of experimentally prepared polyploid cultures of Saccharomyces vini] Imshenetskiĭ AA, et al. Mikrobiologiia 1989 Jul–Aug;58(4):566–70 (Eng. Abstr.) (Rus)
[Regularities of posthyperthermic recovery in haploid and diploid yeasts Saccharomyces cerevisiae and Pichia pinus] Glazunov AV, et al. Tsitologiia 1989 Jul;31(7):785–90 (Eng. Abstr.) (Rus)
[The ratio of collagens type I and III in cultures of human fibroblasts with diploid and aberrant chromosome complement] Kukharenko VI, et al. Vopr Med Khim 1989 Sep–Oct;35(5):94–6 (Eng. Abstr.) (Rus)

DIPLOPIA

CHEMICALLY INDUCED

Ocular myasthenia gravis after D-penicillamine administration. Katz LJ, et al. Br J Ophthalmol 1989 Dec; 73(12):1015–8 (39 ref.)
Diplopia due to phenothiazine toxicity [letter] Mishra VN, et al. J Assoc Physicians India 1989 Dec;37(12):799
Divergence paralysis associated with the ingestion of diazepam. Arai M, et al. J Neurol 1990 Feb;237(1):45–6
[Pharmacodynamics of allapinin and its possible adverse effects] Abdalla A, et al. Kardiologiia 1989 Jul;29(7):29–32 (Eng. Abstr.) (Rus)
[Gradenigo's syndrome following radiculography (letter)] Garcia Naya M, et al. Neurologia 1988 Sep–Oct;3(5):205–6 (Spa)
[Bilateral paralysis of the VI cranial nerves following myelography with metrizamide (letter)] Montalbán J, et al. Neurologia 1988 Mar–Apr;3(2):80–1 (Spa)
[Metrizamide and diplopia (letter)] Roquer J, et al. Neurologia 1987 May–Jun;2(3):146–7 (Spa)

DIAGNOSIS

[Adaptation of Goldmann's cupula to the detection of subjective cyclodiplopia. Preliminary study] George JL, et al. Bull Soc Ophtalmol Fr 1990 Jan;90(1):65–8 (Eng. Abstr.) (Fre)

ETIOLOGY

Orbital blowout fractures—the influence of age on surgical outcome. Leitch RJ, et al. Acta Ophthalmol (Copenh) 1990 Apr;68(2):118–24
Medial rectus injury after pterygium excision. Raab EL, et al. Arch Ophthalmol 1989 Oct;107(10):1428
Permanent cerebral diplopia in a migraineur. Sinoff SE, et al. Neurology 1990 Jul;40(7):1138–9
Subjective and objective findings after radial keratotomy. Wyzinski P, et al. Ophthalmology 1989 Nov;96(11):1608–11
[Diplopia in fractures of the orbital floor] Cigánek L, et al. Cesk Oftalmol 1990 Mar;46(2):139–44 (Eng. Abstr.) (Cze)
[Mucocele of ophthalmologic expression and treatment apropos of 46 cases] Arnaud B, et al. Bull Soc Ophtalmol Fr 1989 Nov;89(11):1221–4 (Eng. Abstr.) (Fre)
[Ophthalmologic complications of fronto-orbital mucocele. Apropos of 2 cases] Haut J, et al. Bull Soc Ophtalmol Fr 1989 Mar;89(3):347–54 (10 ref.) (Fre)
[Squint operations for impaired motility due to endocrine ophthalmopathy] Aust W, et al. Ophthalmologica 1990; 200(1):10–5 (Eng. Abstr.) (Ger)
[Monocular elevation paresis. Ipsilateral mesencephalic ischemic lesion demonstrated by magnetic resonance] Roig C, et al. Neurologia 1986 Mar–Apr;1(2):80–3 (15 ref.) (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

Functional scoring of the field of binocular single vision. Fitzsimons R, et al. Ophthalmology 1990 Jan;97(1):33–5
[So-called superior oblique muscle myokymia from the neurologic viewpoint] Braune HJ, et al. Nervenarzt 1990 Jun;61(6):369–71 (Ger)

DIPODOMYS see under **RODENTIA**

DIPRENORPHINE see under **MORPHINANS**

DIPROPYL ACETATE see **VALPROATE**

DIPTERA

A record of Exhyalanthrax abruptus (Loew) (Diptera, Bombyliidae), a tsetse parasitoid from the Luangwa Valley, Eastern Province, Zambia. Carpels GI, et al. Ann Soc Belg Med Trop 1989 Jun;69(2):157–9
A laboratory experiment to compare potential insecticides for use in field bait-bins for sheep blowflies. Anderson JM. Aust Vet J 1990 Mar;67(3):112–4
Trapping sheep blowflies using bait-bins. Anderson JM, et al. Aust Vet J 1990 Mar;67(3):93–7
Flies and myiasis. Elgart ML. Dermatol Clin 1990 Apr; 8(2):237–44 (19 ref.)
Nasal myiasis due to Oestrus ovis larvae. Quesada P, et al. Eur Arch Otorhinolaryngol 1990;247(2):131–2
Collection of blood-engorged black flies (Diptera: Simuliidae) and identification of their source of blood. Simmons KR, et al. J Am Mosq Control Assoc 1989 Dec; 5(4):541–6
The medical marvels of maggots. Mulder JB. J Am Vet Med Assoc 1989 Dec 1;195(11):1497–9
Screening method for insecticidal activity using first instars of black blow fly (Diptera: Calliphoridae). Boisvenue RJ, et al. J Econ Entomol 1989 Dec;82(6):1843–5
Use of sterile insect releases in an IPM program for control of Hypoderma lineatum and H. bovis (Diptera: Oestridae): a pilot test. Kunz SE, et al. J Med Entomol 1990 Jul; 27(4):523–9
The Third World's VIP [editorial] Lancet 1990 Mar 17; 335(8690):633–4
Recovery of forensically important entomological specimens from human cadavers in Malaysia—an update. Lee HL. Malays J Pathol 1989 Aug;11:33–6
Lyme disease transmitted by a biting fly [letter] Luger SW. N Engl J Med 1990 Jun 14;322(24):1752
Double blow for blowflies in Australia [news] Ewing T. Nature 1990 Feb 8;343(6258):496
Intestinal myiasis caused by Parasarcophaga crassipalpis (Diptera: Sarcophagidae). Shiota T, et al. Pediatrics 1990 Feb;85(2):215–7
Libya gets unwelcome visitor from the West [news] Palca J. Science 1990 Jul 13;249(4965):117–8
Ophthalmomyiasis interna lentis. McLane NJ, et al. South Med J 1990 Aug;83(8):963–5 (209 ref.)
Tabanus species and their distribution in Thailand (Diptera: Tabanidae). Tumrasvin W. Southeast Asian J Trop Med Public Health 1989 Jun; 20(2):319–23
[Tabanus importunus, experimental mechanical vector of Trypanosoma vivax in French Guiana] Raymond HL. Ann Parasitol Hum Comp 1990;65(1):44–6 (Eng. Abstr.) (Fre)
[Use of bacteria in the control of medically important diptera] Habib ME. Mem Inst Oswaldo Cruz 1989;84 Suppl 3:31–4 (Por)
[Beetles as biological agents in fly control] Tagi-zade TA, et al. Med Parazitol (Mosk) 1989 Jul–Aug;(4):91 (Eng. Abstr.) (Rus)
[3 cases of furunculoid myiasis caused by Dermatobia hominis larvae] Saavedra T, et al. Bol Chil Parasitol 1988 Jan–Jun; 43(1–2):15–7 (Eng. Abstr.) (Spa)

ANALYSIS

Fly larvae and their relevance in forensic toxicology. Kintz P, et al. Am J Forensic Med Pathol 1990 Mar;11(1):63–5
Isolation and structure of a novel charged member of the red-pigment-concentrating hormone-adipokinetic hormone family of peptides isolated from the corpora cardiaca of the blowfly Phormia terraenovae (Diptera). Gäde G, et al. Biochem J 1990 Jul 15;269(2):309–13
The putative ancestral peptide of the adipokinetic/red-pigment-concentrating hormone family isolated and sequenced from a dragonfly. Gäde G. Biol Chem Hoppe Seyler 1990 Jun;371(6):475–83
Immunohistochemical localisation of the hypertrehalosaemic hormone II (Cam-HrTH-II) and related peptides in the nervous system of Carausius morosus and Sarcophaga bullata. Clottens F, et al. Cell Tissue Res 1989 Dec; 258(3):631–6
Distribution and functional significance of Met-enkephalin-Arg6-Phe7- and Met-enkephalin-Arg6-Gly7-Leu8-like peptides in the blowfly Calliphora vomitoria. I. Immunocytochemical mapping of neuronal pathways in the brain. Duve H, et al. Cell Tissue Res 1989 Oct;258(1):147–61
Glycosphingolipids in insects. Chemical structures of two variants of a glucuronic-acid-containing ceramide hexasaccharide from a pupae of Calliphora vicina (Insecta: Diptera), distinguished by a N-acetylglucosamine-bound phosphoethanolamine sidechain. Weske B, et al. Eur J Biochem 1990 Jul 31;191(2):379–88
Determination of the disulfide array in sapecin, an antibacterial peptide of Sarcophaga peregrina (flesh fly). Kuzuhara T, et al. J Biochem (Tokyo) 1990 Apr; 107(4):514–8
Novel phosphorus-containing glycosphingolipids from the blowfly Calliphora vicina Meigen. Structural analysis by 1H and 1H[31P]-edited NMR spectroscopy at 600 and 500 megahertz. Dabrowski U, et al. J Biol Chem 1990 Jun 15; 265(17):9737–43
Opiate analysis in cadaveric blowfly larvae as an indicator of narcotic intoxication. Introna F Jr, et al. J Forensic Sci 1990 Jan;35(1):118–22
Fly larvae: a new toxicological method of investigation in forensic medicine. Kintz P, et al. J Forensic Sci 1990 Jan; 35(1):204–7
Biochemical characterization of Balbiani ring premessenger RNP particles. Wurtz T, et al. Mol Biol Rep 1990; 14(2–3):95–6

ANATOMY & HISTOLOGY

The photoreceptor axon projection and its evolution in the neural superposition eyes of some primitive brachyceran diptera. Shaw SR. Brain Behav Evol 1990;35(2):107–25
Fine structure of a sensory organ in the arista of Drosophila melanogaster and some other dipterans. Foelix RF, et al. Cell Tissue Res 1989 Nov;258(2):277–87
Microspectrophotometry of single rhabdomeres in the insect eye. Langer H, et al. Exp Cell Res 1966 Mar;41(3):673–7
Dioptrics of the facet lenses of male blowflies Calliphora and Chrysomyia. Stavenga DG, et al. J Comp Physiol [A] 1990 Feb;166(3):365–71
The screwworm fly in Libya: a threat to the livestock industry of the Old World. Gabaj MM, et al. Vet Rec 1989 Sep 23;125(13):347–9

CLASSIFICATION

First human infestations in Africa with larvae of American screw-worm, Cochliomyia hominivorax Coq. Gabaj MM, et al. Ann Trop Med Parasitol 1989 Oct;83(5):553–4
Classification of screwworms (Diptera: Calliphoridae) by larval spine morphology. Mangan RL, et al. J Med Entomol 1990 May;27(3):295–301
The phylogenetic systematics of the miltogrammatine flies (Diptera, Sarcophagidae) of the world. Verves YuG. Jpn J Med Sci Biol 1989 Jun;42(3):111–26
[A short revision of the species group Pegomya acklandi, with description of a new species (Anthomyiidae, Diptera)] Li R, et al. Hua Hsi I Ko Ta Hsueh Hsueh Pao 1990 Jun; 21(2):150–4 (Eng. Abstr.) (Chi)

CYTOLOGY

Phylogenetic diversity of cellular organization in the cardia of muscoid flies (Diptera: Schizophora). King DG. J Morphol 1989 Dec;202(3):435–55
Bidirectional swimming in spermatozoa of Tephritid flies. Baccetti B, et al. J Submicrosc Cytol Pathol 1989 Oct; 21(4):619–25

DRUG EFFECTS

Toxicity of carbofuran to selected macroinvertebrates in prairie ponds. Wayland M, et al. Bull Environ Contam Toxicol 1990 Jul;45(1):74–81
Location of the dipteran specificity region in a lepidopteran-dipteran crystal protein from Bacillus thuringiensis. Widner WR, et al. J Bacteriol 1990 Jun; 172(6):2826–32

EMBRYOLOGY

Segmentation and segmental differentiation in the development of the central nervous systems of leeches and flies. Levine M, et al. Annu Rev Neurosci 1990;13:195–225 (140 ref.)
Pattern regulation in the ventral histoblasts of the housefly: induction of sternal pattern abnormalities by mechanical wounding of larval epidermal cells. Madhavan K, et al. Dev Biol 1990 May;139(1):42–55
A sequence-specific protease cleaves a maternal, cortical protein during early embryogenesis in Sciara coprophila (Diptera). Ruder FJ, et al. Dev Biol 1990 Aug;140(2):231–40

ENZYMOLOGY

Characterization of proteolytic and collagenolytic enzymes from the larvae of Lucilia cuprina, the sheep blowfly. Bowles VM, et al. Aust J Biol Sci 1988;41(2):269–78
Ultrastructural localization of acid phosphatase in spermatic cells of Ceratitis capitata (Diptera). Báo SN, et al. Histochemistry 1990;93(4):439–42
Sheep plasma protease inhibitors influencing protease activity and growth of Lucilia cuprina larvae in vitro. Bowles VM, et al. Int J Parasitol 1990 Apr;20(2):169–74
[Stabilization of fly head cholinesterase immobilized on a gelatin membrane] Kugusheva LI, et al. Ukr Biokhim Zh 1989 Nov–Dec;61(6):92–4 (Eng. Abstr.) (Rus)
[A comparative study of the interaction of the cholinesterase from the brain of the cabbage fly, the acetylcholinesterase from bovine erythrocytes and the butyrylcholinesterase from horse blood serum with organophosphorus inhibitors] Grigor'eva GM, et al. Zh Evol Biokhim Fiziol 1990 Mar–Apr;26(2):145–50 (Eng. Abstr.) (Rus)

GENETICS

Genetic architecture and adaptation: quantitative analysis of sheep and refuse tip populations of the Australian sheep blowfly, Lucilia cuprina. Clarke GM, et al. Aust J Biol Sci 1987;40(1):47–56
Intraspecific genetic variability in mitochondrial DNA of the screwworm fly (Cochliomyia hominivorax). Roehrdanz RL. Biochem Genet 1989 Oct;27(9–10):551–69
Cloning and in vitro transcription of the Sarcophaga lectin gene. Kobayashi A, et al. Biochim Biophys Acta 1989 Dec 22;1009(3):244–50
Puffs, genes, and hormones revisited. Ashburner M. Cell 1990 Apr 6;61(1):1–3 (11 ref.)
Identification of the spI products of Balbiani ring genes in Chironomus thummi. Cortés E, et al. Chromosoma 1989 Dec;98(6):428–32
Characterization of a tandemly repeated DNA from the fleshfly Sarcophaga bullata. Hershfield B, et al. Chromosoma 1990 Apr;99(2):125–30
Centromeric dots in crane-fly spermatocytes: meiotic

maturation and malorientation. Janicke MA, et al. **Chromosoma** 1989 Nov;98(5):358–67

Insect immunity: expression of the two major inducible antibacterial peptides, defensin and diptericin, in Phormia terranovae. Dimarcq JL, et al. **EMBO J** 1990 Aug; 9(8):2507–15

Cloning of gene cluster for sarcotoxin I, antibacterial proteins of Sarcophaga peregrina. Kanai A, et al. **FEBS Lett** 1989 Dec 4;258(2):199–202

Balbiani ring 3 in Chironomus tentans encodes a 185–kDa secretory protein which is synthesized throughout the fourth larval instar. Dignam SS, et al. **Gene** 1990 Apr 16; 88(2):133–40

Divergence of the nucleotide sequences encoding xanthine dehydrogenase in Calliphora vicina and Drosophila melanogaster. Houde M, et al. **Gene** 1989 Dec 28; 85(2):391–402

Endopolyploidy in follicle epithelial cells around the nurse chamber during oogenesis in Chrysomya putoria (Diptera, Calliphoridae). Avancini RM, et al. **Genetica** 1990; 81(1):5–10

Actin genes in the Mediterranean fruit fly, Ceratitis capitata. Haymer DS, et al. **Genetics** 1990 May;125(1):155–60

Chemical excitation and inactivation in photoreceptors of the fly mutants trp and nss. Suss E, et al. **J Gen Physiol** 1989 Sep;94(3):465–91

A genetic sexing system to improve the sterile insect technique against the Mediterranean fruit fly. Saul SH. **J Hered** 1990 Jan–Feb;81(1):75–8

Genetics of screwworm: new genetic markers and preliminary linkage map. Taylor DB. **J Hered** 1989 Nov–Dec;80(6):425–32

Molecular characterization of DNA puff II/9A genes in Sciara coprophila. DiBartolomeis SM, et al. **J Mol Biol** 1989 Dec 5;210(3):531–40

Isolation and characterization of ribosomal DNA variants from Sciara coprophila. Kerrebrock AW, et al. **J Mol Biol** 1989 Nov 5;210(1):1–13

The Balbiani ring 3 gene in Chironomus tentans has a diverged repetitive structure split by many introns. Paulsson G, et al. **J Mol Biol** 1990 Jan 20;211(2):331–49

Higher order structure of Balbiani ring premessenger RNP particles depends on certain RNase A sensitive sites. Wurtz T, et al. **J Mol Biol** 1990 Sep 5;215(1):93–101

Cloning and characterization of the white and topaz eye color genes from the sheep blowfly Lucilia cuprina. Elizur A, et al. **J Mol Evol** 1990 Apr;30(4):347–58

A new member of a secretory protein gene family in the dipteran Chironomus tentans has a variant repeat structure. Galli J, et al. **J Mol Evol** 1990 Jul;31(1):40–50

Sequence homology between a polytene band in the genetic sex chromosomes of Chrysomya rufifacies and the daughterless gene of Drosophila melanogaster. Clausen S, et al. **Naturwissenschaften** 1990 Mar;77(3):137–8

The chorion genes of the medfly, Ceratitis capitata, I: Structural and regulatory conservation of the s36 gene relative to two Drosophila species. Konsolaki M, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1731–7

Sequence of the Calliphora erythrocephala 3B55 satellite: a sequence which is proportionately replicated and transcribed in germ–line polyploid nuclei. Nazimiec M, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9486

Histone H1 in two subspecies of Chironomus thummi with different genome sizes: homologous chromosome sites differ largely in their content of a specific H1 variant. Mohr E, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9308–12

[Potential difference and puff patterns. Electrophysiologic and cytologic studies of the salivary glands of Chironomus thummi] Kroeger H. **Exp Cell Res** 1966 Jan;41(1):64–80 **(Ger)**

[Analysis of expression of the gene from the BRa puff of Chironomus thummi encoding the low molecular weight secretory protein] Bogachev SS, et al. **Genetika** 1989 Sep; 25(9):1541–50 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

The development of the sensory organs of the legs in the blowfly, Phormia regina. Lakes R, et al. **Cell Tissue Res** 1990 Jan;259(1):93–103

North American cuterebrid myiasis. Report of seventeen new infections of human beings and review of the disease. Baird JK, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):763–72 (33 ref.)

Effects of larval population density on rates of development and interactions between two species of Chrysomya (Diptera: Calliphoridae) in laboratory culture. Goodbrod JR, et al. **J Med Entomol** 1990 May;27(3):338–43

Rearing Dictya floridensis (Diptera: Sciomyzidae) in a continuously producing colony and evaluation of larval food sources. McLaughlin RE, et al. **J Med Entomol** 1989 Nov;26(6):522–7

IMMUNOLOGY

Analysis of chironomid allergens using specific T cell lines and clones in humans. Edahiro T, et al. **Acta Med Okayama** 1989 Oct;43(5):261–70

ELISA inhibition method in detection of mite and chironomid antigens in environmental samples of dust, soil and air. Kimura JY, et al. **Allergy** 1990 Apr;45(3):167–73

Developmental change of chironomid allergen during metamorphosis. Matsuoka H, et al. **Allergy** 1990 Feb; 45(2):115–20

Bovine leukosis virus transmission with mouthparts from Tabanus abactor after interrupted feeding. Perino LJ, et al. **Am J Vet Res** 1990 Aug;51(8):1167–9

Allergenicity of Chironomidae in asthmatic patients. Yamashita N, et al. **Ann Allergy** 1989 Nov;63(5):423–6

The presence of an antigen reactive with a human autoantibody in Trichosia pubescens (Diptera: Sciaridae) and its association with certain transcriptionally active regions of the genome. Amabis JM, et al. **Chromosoma** 1990 Apr;99(2):102–10

Immunocytochemical localization of human growth hormone– and prolactin–like antigenic determinants in the insects, Locusta migratoria and Sarcophaga bullata. Swinnen K, et al. **Comp Biochem Physiol [A]** 1990; 95(3):373–8

Acquired resistance of sheep to larvae of Lucilia cuprina, assessed in vivo and in vitro. Eisemann CH, et al. **Int J Parasitol** 1990 May;20(3):299–305

Analysis of lymphocyte response to chironomid midge antigens in asthmatic and non–asthmatic individuals. Edahiro T, et al. **Jpn J Med Sci Biol** 1989 Jun;42(3):101–10

Effect of ivermectin treatment on anti–hypodermin C titers of Asturiana cattle naturally infected with Hypoderma lineatum. Prieto M, et al. **Vet Parasitol** 1990 Mar; 35(3):211–8

The serological incidence of Hypoderma bovis in cattle in England and Wales in spring 1989. Sinclair IJ, et al. **Vet Rec** 1990 Apr 7;126(14):327–9

[Allergen tests with midge allergens in Moriyama City, located on the south coast of Lake Biwa] Matsubara T, et al. **Arerugi** 1989 Oct;38(10):1150–6 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Identification of Gasterophilus haemorrhoidalis in Queensland. Pearse BH, et al. **Aust Vet J** 1989 Nov; 66(11):380

External ophthalmomyiasis associated with herpes zoster ophthalmicus. Verma L, et al. **Can J Ophthalmol** 1990 Feb; 25(1):42–3

Identification of horse flies (Diptera: Tabanidae) by analysis of cuticular hydrocarbons. Hoppe KL, et al. **J Med Entomol** 1990 Jul;27(4):480–6

METABOLISM

Comparison of insect hemoglobins (Erythrocruorins) from Chironomus thummi thummi and Chironomus thummi piger (Diptera). The primary structure of the monomeric hemoglobin CTP III. Kleinschmidt T, et al. **Biol Chem Hoppe Seyler** 1989 Aug;370(8):839–45

Effect of sediment contact and uptake mechanisms on accumulation of three chlorinated hydrocarbons in the midge, Chironomus riparius. Fry DM, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):790–7

Distribution of functional significance of Met–enkephalin–Arg6–Phe7– and Met–enkephalin–Arg6–Gly7–Leu8–like peptides in the blowfly Calliphora vomitoria. II. Immunocytochemical mapping of neuronal pathways in the retrocerebral complex and thoracic ganglion. Duve H, et al. **Cell Tissue Res** 1990 Jan;259(1):147–57

Substance P–, FMRFamide–, and gastrin/cholecystokinin–like immunoreactive neurons in the thoraco–abdominal ganglia of the flies Drosophila and Calliphora. Lundquist T, et al. **J Comp Neurol** 1990 Apr 8;294(2):161–78

Rates of energy processing by blowflies: the uses for a joule vary with food quality and quantity. Hainsworth FR, et al. **J Exp Biol** 1990 May;150:257–68

Evidence for the expression of a glucuronic acid–containing epitope in the central nervous system of two insects (Calliphora vicina, Diptera; Tenebrio molitor, Coleoptera). Breidbach O, et al. **Neurosci Lett** 1990 Feb 16;109(3):265–70

[Identification of depolarization–activated calcium flow in the secretory cell membrane] Klevets MIu, et al. **Fiziol Zh** 1990 Mar–Apr;36(2):102–4 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Transmission of bovine leukemia virus by Tabanus fuscicostatus. Foil LD, et al. **Am J Vet Res** 1989 Oct; 50(10):1771–3

The role of Hydrotaea irritans in the transmission of summer mastitis. Hillerton JE, et al. **Br Vet J** 1990 Mar–Apr; 146(2):147–56

In vitro isolation of Entomophthora muscae (Entomophthorales: Entomophthoraceae) from infected seed corn maggot Delia platura (Diptera: Anthomyiidae). Tu CM. **J Invertebr Pathol** 1990 Mar;55(2):289–90

Dacus oleae microbial symbionts. Manousis T, et al. **Microbiol Sci** 1988 May;5(5):149–52 (25 ref.)

Natural mode of horizontal transmission of bovine leukemia virus (BLV): the potential role of tabanids (Tabanus spp.). Manet G, et al. **Vet Immunol Immunopathol** 1989 Oct; 22(3):255–63

[Synantrophic flies and other insects in the area of a hospital and microflora detected on their body surfaces] Daniel M, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jan; 39(1):21–31 (Eng. Abstr.) **(Cze)**

PARASITOLOGY

Parasites and predators associated with blow flies and flesh flies in Cairo region. Shaumar NF, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):123–32

Transmission of taeniid tapeworm eggs via blowflies to intermediate hosts. Lawson JR, et al. **Parasitology** 1990 Feb;100 Pt 1:143–6

Chrysops silacea and C. dimidiata: fly densities and infection rates with Loa loa in the Chaillu mountains, Congo Republic. Noireau F, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):153–5

[Invasive nematode larvae of the order Spirurida from pasture flies] Khromova LA. **Parazitologiia** 1989 Sep–Oct; 23(5):443–8 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

[The aberrant parasitism of horse botflies (Diptera: Gasterophilidae)] Rastegaev IuM. **Parazitologiia** 1990 Mar–Apr;24(2):154–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The host preferences of Chrysops silacea and C. dimidiata (Diptera: Tabanidae) in an endemic area of Loa loa in the Congo. Gouteux JP, et al. **Ann Trop Med Parasitol** 1989 Apr;83(2):167–72

Neural models for SUSTAINED and ON–OFF units of insect lamina. Oğmen H, et al. **Biol Cybern** 1990;63(1):51–60

The role of GABA in detecting visual motion. Egelhaaf M, et al. **Brain Res** 1990 Feb 12;509(1):156–60

Developmental process of visual pattern discrimination in the fly. Mimura K. **Brain Res** 1990 Mar 26;512(1):75–80

Acrosome formation in Ceratitis capitata (Diptera, Tephritidae). Báo SN, et al. **Cytobios** 1989;58(233):93–100

N–acetyldopamine quinone methide/1,2–dehydro–N–acetyl dopamine tautomerase. A new enzyme involved in sclerotization of insect cuticle. Saul SJ, et al. **FEBS Lett** 1989 Sep 25;255(2):340–4

Study on the population of the warble fly, Oestromyia leporina (Pallas. 1778) (Diptera, Hypodermatidae) in Bohemia. Volf P, et al. **Folia Parasitol (Praha)** 1990; 37(2):187–90

Seasonal changes of larval food and feeding of Chironomus crassicaudatus (Diptera: Chironomidae) in a subtropical lake. Ali A. **J Am Mosq Control Assoc** 1990 Mar;6(1):84–8

Gonotrophic status, sperm presence and sugar feeding patterns in southwestern Quebec tabanid (Diptera) populations. Leprince DJ. **J Am Mosq Control Assoc** 1989 Sep;5(3):383–6

Natural food and feeding behavior of Coquillettidia perturbans larvae. Merritt RW, et al. **J Am Mosq Control Assoc** 1990 Mar;6(1):35–42

Dopamine–immunoreactive neurons in the blowfly visual system: light and electron microscopic immunocytochemistry. Nässel DR, et al. **J Chem Neuroanat** 1988 Nov–Dec;1(6):311–25

Cluster organization and response characteristics of the giant fiber pathway of the blowfly Calliphora erythrocephala. Milde JJ, et al. **J Comp Neurol** 1990 Apr 1;294(1):59–75

Learning and discrimination of coloured papers in the walking blowfly, Lucilia cuprina. Fukushi T. **J Comp Physiol [A]** 1989 Nov;166(1):57–64

Lanthanum mimicks the trp photoreceptor mutant of Drosophila in the blowfly Calliphora. Hochstrate P. **J Comp Physiol [A]** 1989 Dec;166(2):179–87

Membrane parameters, signal transmission, and the design of a graded potential neuron. van Hateren JH, et al. **J Comp Physiol [A]** 1990 Feb;166(4):437–48

Host plant resistance and linear furanocoumarin content of Apium accessions. Trumble JT, et al. **J Econ Entomol** 1990 Apr;83(2):519–25

What causes edge fixation in walking flies? Osorio D, et al. **J Exp Biol** 1990 Mar;149:281–92

Electrophysiological recordings from the taste chemosensilla of Tabanus nigrovittatus (Diptera: Tabanidae) and determination of behavioral tarsal acceptance thresholds. Stoffolano JG Jr, et al. **J Med Entomol** 1990 Jan;27(1):14–23

Neural circuits mediating visual flight control in flies. I. Quantitative comparison of neural and behavioral response characteristics. Hausen K, et al. **J Neurosci** 1989 Nov; 9(11):3828–36

Neural circuits mediating visual flight control in flies. II. Separation of two control systems by microsurgical brain lesions. Hausen K, et al. **J Neurosci** 1990 Jan;10(1):351–60

On the interpretation of maggot evidence in forensic cases [see comments] Erzincliogluz YZ. **Med Sci Law** 1990 Jan; 30(1):65–6 Comment in: Med Sci Law 1990 Apr;30(2):184.

The minimum post–mortem interval utilizing the blowfly or blue bottle (Calliphoridae) larva [letter; comment] Patel F. **Med Sci Law** 1990 Apr;30(2):184 Comment on: Med Sci Law 1990 Jan;30(1):65–6.

Effect of intermittent and continuous photoperiods on fly populations. Slaugh BT, et al. **Poult Sci** 1990 May; 69(5):867–9

Primary structure of two neuropeptide hormones with adipokinetic and hypotrehalosemic activity isolated from the corpora cardiaca of horse flies (Diptera). Jaffe H, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8161–4

On the effective optical density of the pupil mechanism in fly photoreceptors. Roebroek JG, et al. **Vision Res** 1990; 30(8):1235–42

Directional tuning curves, elementary movement detectors,

and the estimation of the direction of visual movement. van Hateren JH. **Vision Res** 1990;30(4):603–14

[The biocontrol of container–breeding mosquitoes by using Toxorhynchites] Yeh CC. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Jul; 6(7):337–43 (Eng. Abstr.) (Chi)

[Diurnal motor activity of Lipoptena cervi (L.) (Hippoboscidae: Diptera)] Kadulski S. **Wiad Parazytol** 1989;35(6):603–5 (Eng. Abstr.) (Pol)

ULTRASTRUCTURE

Identifying the site of microtubule polymerization during regrowth of UV-sheared kinetochore fibres using antibodies against acetylated alpha–tubulin. Wilson P, et al. **Cell Biol Int Rep** 1989 Oct;13(10):823–32

Scanning electron microscopy of male genitalia of Dermatobia hominis (Diptera: cuterebridae). Leite AC. **J Med Entomol** 1990 Jul;27(4):706–8

Scanning electron microscope study of Wohlfahrtia magnifica (Schiner, 1862) (Diptera: Sarcophagidae). I. Structures with parasitic and possible taxonomic meaning. Ruiz–Martínez I, et al. **Scanning Microsc** 1990 Mar; 4(1):103–9

DIPYLIDIASIS see CESTODE INFECTIONS

DIPYRIDAMOLE

Myocardial ischemia during pharmacologic coronary vasodilatation: a concept in search of definition [editorial] Iskandrian AS, et al. **Cathet Cardiovasc Diagn** 1989 Oct; 18(2):65–6 (12 ref.)

Persantine advertisement: artistic license or misleading implication? [letter] Schiff G. **JAMA** 1990 Feb 2; 263(5):658–9

ADMINISTRATION & DOSAGE

Reocclusion prophylaxis with dipyridamole combined with acetylsalicylic acid following PTA. Heiss HW, et al. **Angiology** 1990 Apr;41(4):263–9

Potentiation by dipyridamole of 5–fluorouridine antitumor activity against a rat adenocarcinoma in vivo. el Hag IA, et al. **Anticancer Res** 1990 Jan–Feb;10(1):29–32

Phase I trial of 5–fluorouracil and dipyridamole administered by seventy–two–hour concurrent continuous infusion. Remick SC, et al. **Cancer Res** 1990 May 1;50(9):2667–72

5–Fluorouracil and dipyridamole in metastatic breast cancer: a pilot study. Zaniboni A, et al. **J Chemother** 1989 Aug; 1(4):266–8

Dipyridamole plus aspirin [letter] Haehl M. **Lancet** 1989 Oct 28;2(8670):1036–7

[Treatment of chronic proliferative glomerulonephritis using acetylsalicylic acid and dipyridamole] Knotková V, et al. **Cas Lek Cesk** 1989 Jun 28;128(26):814–8 (Eng. Abstr.) (Cze)

[Cellular immunity and the results of 2–year immunosuppressive treatment combined with the administration of dipyridamole and indomethacin in patients with chronic glomerulonephritis] Kacprzyk F, et al. **Pol Arch Med Wewn** 1988 May;79(5):248–55 (Eng. Abstr.) (Pol)

[Attempts at limiting necrotic areas in acute myocardial infarction by intravenous infusion of dipyridamole] Markiewicz K, et al. **Pol Arch Med Wewn** 1987 May; 77(5):206–18 (Eng. Abstr.) (Pol)

ADVERSE EFFECTS

The role of dipyridamole in bronchospasm [letter; comment] Houben JJ. **Chest** 1990 Jul;98(1):253–5 Comment on: Chest 1989 Jun;95(6):1345–7.

Dipyridamole thallium 201 imaging. How safe is it? [comment] Beller GA. **Circulation** 1990 Apr;81(4):1425–7 Comment on: Circulation 1990 Apr;81(4):1205–9.

The safety of intravenous dipyridamole thallium myocardial perfusion imaging. Intravenous Dipyridamole Thallium Imaging Study Group [see comments] Ranhosky A, et al. **Circulation** 1990 Apr;81(4):1205–9 Comment in: Circulation 1990 Apr;81(4):1425–7.

Acute myocardial infarction associated with intravenous dipyridamole for rubidium–82 PET imaging. Marwick TH, et al. **Clin Cardiol** 1990 Mar;13(3):230–1

Myocardial infarction after dipyridamole–assisted thallium–201 imaging. Biddle P, et al. **DICP** 1989 Sep; 23(9):665–7

Persistent chest pain following oral dipyridamole for thallium 201 myocardial imaging. Kwai AH, et al. **Eur J Nucl Med** 1990;16(8–10):745–6

Symptomatic bradycardia complicating the use of intravenous dipyridamole for thallium–201 myocardial perfusion imaging. Pennell DJ, et al. **Int J Cardiol** 1990 May;27(2):272–4

V.A. Cooperative Study of antiplatelet agents in diabetic patients after amputation for gangrene: unobserved, sudden, and unexpected deaths. Colwell JA, et al. **J Diabetic Complications** 1989 Oct–Dec;3(4):191–7

Caffeine reduces dipyridamole–induced myocardial ischemia. Smits P, et al. **J Nucl Med** 1989 Oct;30(10):1723–6

Drug–induced epistaxis? Watson MG, et al. **J R Soc Med** 1990 Mar;83(3):162–4

[Prolonged myocardial ischemia after the high–dose dipyridamole test] Arfiero S, et al. **G Ital Cardiol** 1989 Nov; 19(11):1055–8 (Eng. Abstr.) (Ita)

[Angina pectoris induced by oral administration of dipyridamole] Vecchi MR, et al. **Minerva Cardioangiol** 1990 Apr;38(4):165–9 (Eng. Abstr.) (Ita)

ANTAGONISTS & INHIBITORS

Pentoxifylline (Trental) does not inhibit dipyridamole–induced coronary hyperemia: implications for dipyridamole–thallium–201 myocardial imaging [see comments] Brown KA, et al. **J Nucl Med** 1990 Jun; 31(6):1020–4 Comment in: J Nucl Med 1990 Jun;31(6):1024–7.

DIAGNOSTIC USE

Use of oral dipyridamole SPECT thallium–201 imaging in detection of coronary artery disease. Beer SG, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1022–7

Is dipyridamole–thallium imaging preferable to submaximal exercise thallium testing for risk stratification after thrombolysis? Lette J, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):671–2

Acute hemodynamic changes during intravenous dipyridamole thallium imaging early after infarction. Miller DD, et al. **Am Heart J** 1989 Oct;118(4):686–94

Perioperative and long–term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease. Younis LT, et al. **Am Heart J** 1990 Jun;119(6):1287–92

Usefulness of the dipyridamole–Doppler test for diagnosis of coronary artery disease. Agati L, et al. **Am J Cardiol** 1990 Apr 1;65(13):829–34

Ability of dipyridamole–thallium–201 imaging one to four days after acute myocardial infarction to predict in–hospital and late recurrent myocardial ischemic events. Brown KA, et al. **Am J Cardiol** 1990 Jan 15;65(3):160–7

Noninvasive cardiac risk stratification of diabetic and nondiabetic uremic renal allograft candidates using dipyridamole–thallium–201 imaging and radionuclide ventriculography. Brown KA, et al. **Am J Cardiol** 1989 Nov 1;64(16):1017–21

Prognostic value of intravenous dipyridamole thallium imaging in patients with diabetes mellitus considered for renal transplantation. Camp AD, et al. **Am J Cardiol** 1990 Jun 15;65(22):1459–63

Significance of dipyridamole–induced transient dilation of the left ventricle during thallium–201 scintigraphy in suspected coronary artery disease. Chouraqui P, et al. **Am J Cardiol** 1990 Sep 15;66(7):689–94

Effects of atrial pacing and dipyridamole administration on coronary hemodynamics of collateralized myocardial regions in stable angina pectoris. De Servi S, et al. **Am J Cardiol** 1990 Mar 15;65(11):703–8

Prognostic utility of predischarge dipyridamole–thallium imaging compared to predischarge submaximal exercise electrocardiography and maximal exercise thallium imaging after uncomplicated acute myocardial infarction. Gimple LW, et al. **Am J Cardiol** 1989 Dec 1;64(19):1243–8

Predictive value of quantitative dipyridamole–thallium scintigraphy in assessing cardiovascular risk after vascular surgery in diabetes mellitus. Lane SE, et al. **Am J Cardiol** 1989 Dec 1;64(19):1275–9

Usefulness of semiquantitative analysis of dipyridamole–thallium–201 redistribution for improving risk stratification before vascular surgery. Levinson JR, et al. **Am J Cardiol** 1990 Aug 15;66(4):406–10

Detection of human collateral circulation by vasodilation–thallium–201 tomography. Nienaber CA, et al. **Am J Cardiol** 1990 Apr 15;65(15):991–8

Comparison of myocardial washout rate of thallium–201 between rest, dipyridamole with and without aminophylline, and exercise states in normal subjects. O'Byrne GT, et al. **Am J Cardiol** 1989 Nov 1;64(16):1022–8

Quantitative comparison of thallium–201 scintigraphy after exercise and dipyridamole in coronary artery disease. Varma SK, et al. **Am J Cardiol** 1989 Oct 15;64(14):871–7

Dipyridamole radionuclide ventriculography in patients with coronary artery disease: comparison with ergometer exercise. Konishi T, et al. **Angiology** 1990 Jul;41(7):518–24

Myocardial imaging using thallium 201 scintigraphy after dipyridamole infusion: a case history. Niemeyer MG, et al. **Angiology** 1989 Dec;40(12):1065–71

Postoperative myocardial infarction and cardiac death. Predictive value of dipyridamole–thallium imaging and five clinical scoring systems based on multifactorial analysis. Lette J, et al. **Ann Surg** 1990 Jan;211(1):84–90

Dipyridamole testing compared to exercise stress for thallium–201 imaging in patients with left bundle branch block. Morais J, et al. **Can J Cardiol** 1990 Jan–Feb;6(1):5–8

Comparison of left ventricular function and myocardial perfusion for evaluating perioperative cardiac risk of abdominal aortic surgery. McPhail NV, et al. **Can J Surg** 1990 Jun;33(3):224–8

Assessment of left ventricular function using radionuclide angiography after dipyridamole infusion. Indolfi C, et al. **Chest** 1989 Nov;96(5):1026–30

Prognostic importance of dipyridamole–echocardiography test [letter; comment] Gerson MC. **Circulation** 1990 Mar; 81(3):1157–8 Comment on: Circulation 1989 Sep;80(3):450–7.

Myocardial kinetics of Tc–MIBI in canine myocardium after dipyridamole. Glover DK, et al. **Circulation** 1990 Feb; 81(2):628–37

Usefulness of high–dose dipyridamole echocardiography test in coronary angioplasty. Picano E, et al. **Circulation** 1989 Oct;80(4):807–15

Electrocardiographic changes suggestive of myocardial ischemia elicited by dipyridamole infusion in acute rejection early after heart transplantation. Picano E, et al. **Circulation** 1990 Jan;81(1):72–7

Failure of dipyridamole–thallium myocardial imaging to detect severe coronary disease. Chin W, et al. **Cleve Clin J Med** 1989 Sep;56(6):587–9

Dipyridamole thallium imaging may not be a reliable screening test for coronary artery disease in patients undergoing vascular surgery. Marwick TH, et al. **Clin Cardiol** 1990 Jan;13(1):14–8

Update on intravenous dipyridamole cardiac imaging in the assessment of ischemic heart disease. Younis LT, et al. **Clin Cardiol** 1990 Jan;13(1):3–10 (52 ref.)

Intravenous dipyridamole thallium–201 SPECT imaging in patients with left bundle branch block. Rockett JF, et al. **Clin Nucl Med** 1990 Jun;15(6):401–7

Thallium–201 scintigraphy after dipyridamole infusion with low–level exercise. III. Clinical significance and additional diagnostic value of ST segment depression and angina pectoris during the test. Laarman GJ, et al. **Eur Heart J** 1990 Aug;11(8):705–11

Exercise testing and dipyridamole echocardiography test before and 48 h after successful coronary angioplasty: prognostic implications. Massa D, et al. **Eur Heart J** 1989 Dec;10 Suppl G:13–7

Assessment of cardiac risk before vascular surgery by dipyridamole thallium testing. Laarman GJ, et al. **Eur J Vasc Surg** 1990 Aug;4(4):335–40 (65 ref.)

Dipyridamole thallium–201 perfusion imaging for the study of ischemic heart disease in hemodialysis patients. Marcen R, et al. **Int J Artif Organs** 1989 Dec;12(12):773–7

Dipyridamole thallium–201 scintigraphy: an excellent alternative to exercise scintigraphy [comment] Beller GA. **J Am Coll Cardiol** 1989 Dec;14(7):1642–4 Comment on: J Am Coll Cardiol 1989 Dec;14(7):1635–41.

Prognostic value of dipyridamole thallium scintigraphy for evaluation of ischemic heart disease [see comments] Hendel RC, et al. **J Am Coll Cardiol** 1990 Jan;15(1):109–16 Comment in: J Am Coll Cardiol 1990 Jan;15(1):117–8.

Dipyridamole thallium scintigraphy and prognosis in coronary artery disease [editorial; comment] Willerson JT. **J Am Coll Cardiol** 1990 Jan;15(1):117–8 Comment on: J Am Coll Cardiol 1990 Jan;15(1):109–16.

Prognostic importance of silent myocardial ischemia detected by intravenous dipyridamole thallium myocardial imaging in asymptomatic patients with coronary artery disease [see comments] Younis LT, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1635–41 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1642–4.

Dipyridamole echocardiography in the detection of vulnerable myocardium in the early postinfarction period. Josephson RA, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct; 2(5):324–30

Detection of coronary artery disease using MR imaging with dipyridamole infusion. Pennell DJ, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):167–70

Papillary muscle dysfunction during dipyridamole–thallium imaging [letter; comment] Cheng TO. **J Nucl Med** 1990 Jan;31(1):124–5 Comment on: J Nucl Med 1989 Jul;30(7):1271–2.

Pharmacologic stress with dipyridamole: how lazy can one be? [comment] Wackers FJ. **J Nucl Med** 1990 Jun; 31(6):1024–7 (27 ref.) Comment on: J Nucl Med 1990 Jun;31(6):1020–4.

Diagnostic accuracy of single photon emission computed tomography with thallium–201 for the identification of diseased coronary arteries. Comparison between dipyridamole infusion and exercise stress test. Dondi M, et al. **J Nucl Med Allied Sci** 1990 Jan–Mar;34(1):19–23

Combined pharmacologic and exercise stress myocardial scintigraphy: a practical method for assessment of potential cardiac ischemia in patients with limited exercise capacity. Brooker JZ. **J S C Med Assoc** 1990 Mar;86(3):143–7

Comparison of ejection fraction and Goldman risk factor analysis to dipyridamole–thallium 201 studies in the evaluation of cardiac morbidity after aortic aneurysm surgery. McEnroe CS, et al. **J Vasc Surg** 1990 Apr; 11(4):497–504

Noninvasive assessment of left ventricular diastolic filling in coronary artery disease by Doppler dipyridamole–stress testing. Tomimoto S, et al. **Jpn Heart J** 1989 Nov; 30(6):765–78

Perfusion thallium imaging of type I diabetes patients with end stage renal disease: comparison of oral and intravenous dipyridamole administration. Boudreau RJ, et al. **Radiology** 1990 Apr;175(1):103–5

Ineffectiveness of dipyridamole SPECT thallium imaging as a screening technique for coronary artery disease in patients with end–stage renal failure. Marwick TH, et al. **Transplantation** 1990 Jan;49(1):100–3

[The peroral dipyridamole test in the diagnosis of coronary insufficiency (letter)] Černý J. **Vnitr Lek** 1989 Sep; 35(9):930–2 (Cze)

[Experience with the dipyridamole test in the diagnosis of coronary insufficiency] Černý J, et al. **Vnitr Lek** 1989 Sep; 35(9):903–12 (Eng. Abstr.) (Cze)

[The peroral dipyridamole test in the diagnosis of coronary

insufficiency] Miklová E, et al. **Vnitr Lek** 1989 Sep; 35(9):921–3 (Eng. Abstr.) **(Cze)**

[Role of myocardium scintigraphy with thallium dipyridamole in the evaluation of arterial disease of the legs] Vitoux JF, et al. **Ann Cardiol Angeiol (Paris)** 1989 Oct;38(8):477–9 (Eng. Abstr.) **(Fre)**

[Evaluation by echocardiography of dipyridamole for prediction of cardiac complications after surgery of the abdominal aorta] Rey B, et al. **Ann Fr Anesth Reanim** 1989; 8 Suppl:R99 **(Fre)**

[Dipyridamole echocardiography test during the acute phase of lower myocardial infarction] Duval AM, et al. **Arch Mal Coeur** 1990 Feb;83(2):223–7 (Eng. Abstr.) **(Fre)**

[Significance of 2-dimensional echocardiography for the diagnosis of dipyridamole-induced myocardial ischemia in patients with coronary heart disease] Gawor Z, et al. **Z Gesamte Inn Med** 1990 Jan 1;45(1):5–8 (Eng. Abstr.) **(Ger)**

[The dipyridamole-echo-ECG test in hypertensives with microvascular angina] Lucarini AR, et al. **Medicina (Firenze)** 1989 Apr–Jun;9(2):175–7 (Eng. Abstr.) **(Ita)**

[Detection and classification of coronary artery disease by dipyridamole perfusion scintigraphy: its prognostic significance] Hamashige N, et al. **J Cardiol** 1989 Sep; 19(3):667–78 (Eng. Abstr.) **(Jpn)**

[Dipyridamole-loading scintigraphy in patients with subendocardial infarction using single photon emission computed tomography] Mori K, et al. **J Cardiol** 1988 Dec; 18(4):923–34 (Eng. Abstr.) **(Jpn)**

[Clinical significance of negative dipyridamole perfusion scintigram] Kuzume O, et al. **Kaku Igaku** 1989 Jun; 26(6):753–62 (Eng. Abstr.) **(Jpn)**

[Effect of aminophylline on thallium-201 washout rate during myocardial perfusion imaging with dipyridamole] Takeishi Y, et al. **Kaku Igaku** 1990 Apr;27(4):373–8 (Eng. Abstr.) **(Jpn)**

[Effect of dipyridamole on the functional state of the atrioventricular node] Bubiński R. **Kardiol Pol** 1989; 32(6):334–41 (Eng. Abstr.) **(Pol)**

[Electrocardiographic loading tests in persons with various ECG changes (findings of epidemiological studies)] Nikitin IuP, et al. **Kardiologiia** 1989 Dec;29(12):77–81 (Eng. Abstr.) **(Rus)**

[Tl-201 scintigraphy of the myocardium in combination with pharmacological tests in the diagnosis of ischemic heart disease] Tokareva EA, et al. **Kardiologiia** 1989 Dec; 29(12):73–7 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Pharmacokinetics of dipyridamole–beta–cyclodextrin complex in dogs. Stracciari GL, et al. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug;300:7–13

A bioequivalence study of two dipyridamole products. Arafat T, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Nov; 27(11):564–7

PHARMACOLOGY

Dipyridamole (Curantyl, Antistenocardin) failed to induce interferon (IFN) in man [letter] Tonew M, et al. **Acta Virol (Praha)** 1989 Dec;33(6):586

Expression of a novel high affinity purine base transport system in mutant mouse S49 cells does not require a functional nucleoside transporter. Beck J, et al. **Adv Exp Med Biol** 1989;253B:525–32

Characterization of nucleoside transport during leukemic cell differentiation. Takimoto T, et al. **Adv Exp Med Biol** 1989; 253B:517–23

Inhibition of the zymosan-induced chemiluminescence of human phagocytes by adenosine, polyadenylic acid and agents influencing adenosine metabolism. Sipka S, et al. **Allergol Immunopathol (Madr)** 1989 Jul–Aug;17(4):209–12

Reverse redistribution of thallium-201 detected by SPECT imaging after dipyridamole in angina pectoris. Popma JJ, et al. **Am J Cardiol** 1990 May 15;65(18):1176–80

Effect of dipyridamole at the usual oral dose on exercise-induced myocardial ischemia in stable angina pectoris. Tsuya T, et al. **Am J Cardiol** 1990 Aug 1; 66(3):275–8

Effects of dipyridamole on muscle blood flow in exercising miniature swine. Laughlin MH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1507–15

Effects of persantin and nitroglycerin on myocardial blood flow during temporary coronary occlusions in dogs. Linder E, et al. **Angiologica** 1967;4(5):225–55

Potentiation of 5-fluorouracil cytotoxicity by combining hyperthermia and dipyridamole in vitro. Maehara Y, et al. **Anticancer Res** 1989 Jul–Aug;9(4):967–9

Growth inhibitory effect of N-(phosphonacetyl)-L-aspartic acid on human myeloid leukemia-derived cell lines and modulation by dipyridamole. Taguchi H, et al. **Anticancer Res** 1989 Jul–Aug;9(4):845–8

Modulation of doxorubicin-induced DNA lesions by verapamil, DMDP and dipyridamole in resistant P388 cell lines. Yin MB, et al. **Anticancer Res** 1990 Mar–Apr; 10(2A):327–32

Investigation on the effect of dipyridamole and papaverine on regional blood flow and cardiac hemodynamics in anesthetized dogs [published erratum appears in Arzneimittelforschung 1989 Oct;39(10):1293] Sakanashi M, et al. **Arzneimittelforschung** 1989 Sep;39(9):1119–23

Effect of dipyridamole on transport and phosphorylation of thymidine and 3'-azido-3'-deoxythymidine in human monocyte/macrophages. Betageri GV, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):867–70

Modulation of dipyridamole action by alpha 1 acid glycoprotein. Reduced potentiation of quinazoline antifolate (CB3717) cytotoxicity by dipyridamole. Curtin NJ, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3281–8

Na(+)-dependent, active nucleoside transport in mouse spleen lymphocytes, leukemia cells, fibroblasts and macrophages, but not in equivalent human or pig cells; dipyridamole enhances nucleoside salvage by cells with both active and facilitated transport. Plagemann PG, et al. **Biochim Biophys Acta** 1990 Jun 11;1025(1):32–42

Increased prostacyclin production from human veins by dipyridamole: an in vitro and ex vivo study. Costantini V, et al. **Biomed Biochim Acta** 1990;49(4):263–71

Pharmacologic basis for the use of dipyridamole to increase the selectivity of intraperitoneally delivered methotrexate. Goel R, et al. **Cancer Chemother Pharmacol** 1989; 25(3):167–72

Enhanced retention of cytosine arabinoside and its metabolites and synergistic cytotoxicity by sequential treatment with dipyridamole in L5178Y leukemia. Yang JL, et al. **Cancer Chemother Pharmacol** 1990;26(2):135–8

Study of enzyme inhibitory activities by dipyridamole. Noro T, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1403–4

Caffeine and methylxanthines [letter] Raybin D. **Chest** 1990 May;97(5):1273–4

Electrophysiologic effects of dipyridamole on atrioventricular nodal conduction and supraventricular tachycardia. Role of endogenous adenosine. Lerman BB, et al. **Circulation** 1989 Dec;80(6):1536–43

Effect of dipyridamole on blood glucose and liver cyclic AMP levels and platelet count during endotoxaemia in mice. Al-Jibouri LM, et al. **Clin Exp Pharmacol Physiol** 1988 Jul;15(7):527–32

Thallium-201 scintigraphy after dipyridamole infusion with low level exercise. II. Quantitative analysis vs visual analysis. Laarman GJ, et al. **Eur Heart J** 1990 Feb; 11(2):162–72

Intravenous carbochromen: a potent and effective drug for estimation of coronary dilatory capacity. Opherk D, et al. **Eur Heart J** 1990 Apr;11(4):342–7

Relationship between adenosine deaminase activity (ADA) and inosinemonophosphate (IMP) accumulation in fresh erythrocytes incubated with adenosine and dipyridamole. Kopff M, et al. **Haematologia (Budap)** 1989;22(3):161–7

ST segment depression elicited by dipyridamole infusion in asymptomatic hypertensive patients. Picano E, et al. **Hypertension** 1990 Jul;16(1):19–25

Regulation of lipid metabolism by dipyridamole and adenosine antagonists in rat adipocytes. González-Nicolás J, et al. **Int J Biochem** 1989;21(8):883–8

Human equivalent doses of platelet inhibitors and experimental atherosclerosis. Mittal SR, et al. **Int J Cardiol** 1990 May;27(2):275–6

Effect of dipyridamole on cerebral extracellular adenosine level in vivo. Park TS, et al. **J Cereb Blood Flow Metab** 1990 May;10(3):424–7

Effects of cryptolepine alone and in combination with dipyridamole on a mouse model of arterial thrombosis. Oyekan AO, et al. **J Ethnopharmacol** 1989 Nov; 27(1–2):141–8

Histologic, morphometric, and biochemical evolution of vein bypass grafts in a nonhuman primate model. III. Long-term changes and their modification by platelet inhibition with aspirin and dipyridamole. Boerboom LE, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):426–32

Histologic, morphometric, and biochemical evolution of vein bypass grafts in a nonhuman primate model. II. Modification of early changes by platelet inhibition with aspirin and dipyridamole. Boerboom LE, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):107–12

Relationship of thallium-201 defect and left ventricular function after dipyridamole infusion. Tono-oka I, et al. **Jpn Circ J** 1989 Jul;53(7):707–15

Inhibition and stimulation of photoreceptor phosphodiesterases by dipyridamole and M&B 22,948. Gillespie PG, et al. **Mol Pharmacol** 1989 Nov;36(5):773–81

Acute effect of dipyridamole on urinary prostaglandin excretion [letter; comment] Rogov VA, et al. **Nephron** 1989;53(4):386 Comment on: Nephron 1988;50(4):292–4.

The influence of lactate and dipyridamole on myocardial fatty acid metabolism in man, traced with 123I-17-iodoheptadecanoic acid. Duwel CM, et al. **Nuklearmedizin** 1990 Feb;29(1):28–34

Enhancement of specific biological activity of dipyridamole by complexation with beta-cyclodextrin. Fregnan GB, et al. **Pharmacology** 1990;40(2):96–102

Dipyridamole specifically decreases platelet-derived growth factor release from platelets. Takehara K, et al. **Pharmacology** 1990;40(3):150–6

Effect of aspirin and dipyridamole treatment on prostacyclin production by human veins. Costantini V, et al. **Thromb Res** 1990 Apr 15;58(2):109–17

[Maximal dilatation of the coronary bed using dipyridamole in the diagnosis of coronary insufficiency] Černý J, et al. **Vnitr Lek** 1989 Sep;35(9):913–20 (Eng. Abstr.) **(Cze)**

[The effect of acetylsalicylic acid and dipyridamole on glomerular filtration and proteinuria in chronic glomerulonephritis] Němeček K, et al. **Vnitr Lek** 1990 Apr; 36(4):324–9 (Eng. Abstr.) **(Cze)**

[The effect of the administration of slow releasing type of dipyridamole on teflon graft patency for experimental superior vena cava replacement in mongrel dogs] Hasegawa S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov;37(11):2262–8 (Eng. Abstr.) **(Jpn)**

[Evaluation of the effects of macerated oral dipyridamole on the ergometric test] Buchler RD, et al. **Arq Bras Cardiol** 1989 Apr;52(4):193–6 (Eng. Abstr.) **(Por)**

[Blood levels of opioid peptides and alpha interferon under the action of dipyridamole] Balashov AM, et al. **Biull Eksp Biol Med** 1990 May;109(5):462–4 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Comparative study of pentoxifylline vs antiaggregants in patients with transient ischaemic attacks. Herskovits E, et al. **Acta Neurol Scand Suppl** 1989;127:31–5

Effect of pretreatment with aspirin versus aspirin plus dipyridamole on frequency and type of acute complications of percutaneous transluminal coronary angioplasty. Lembo NJ, et al. **Am J Cardiol** 1990 Feb 15;65(7):422–6

Absence of effect of dipyridamole on renal and platelet function in diabetes mellitus. Gibb DM, et al. **Arch Dis Child** 1990 Jan;65(1):93–8

Effects of dipyridamole on collateral flow and regional myocardial function in conscious dogs with newly developed collaterals. Fujita M, et al. **Basic Res Cardiol** 1990 Mar–Apr;85(2):142–52

Spontaneous atherosclerotic lesions and prostacyclin formation in rabbits: effects of combined dipyridamole and aspirin. Lasierra J, et al. **Biomed Biochim Acta** 1989; 48(9):721–5

Effect of dipyridamole on fluorodeoxyuridine cytotoxicity in vitro and in cancer patients. Buzaid AC, et al. **Cancer Chemother Pharmacol** 1989;25(2):124–30

Prevention of early aortocoronary bypass occlusion by low-dose aspirin and dipyridamole. Grupo Español para el Seguimiento del Injerto Coronario (GESIC) [see comments] Sanz G, et al. **Circulation** 1990 Sep;82(3):765–73 Comment in: Circulation 1990 Sep;82(3):1046–8.

Aspirin and dipyridamole and their limitations in the therapy of coronary artery disease. Rowe GG, et al. **Clin Cardiol** 1990 Mar;13(3):165–70 (80 ref.)

Dipyridamole reduces urinary albumin excretion in diabetic patients with normo- or microalbuminuria. Aizawa T, et al. **Clin Nephrol** 1990 Mar;33(3):130–5

Malignant atrophic papulosis: response to antiplatelet therapy. Drucker CR. **Dermatologica** 1990;180(2):90–2

The reduction of radiation damage to the spinal cord by post-irradiation administration of vasoactive drugs. Hornsey S, et al. **Int J Radiat Oncol Biol Phys** 1990 Jun; 18(6):1437–42

Gastric antiulcer and cytoprotective effects of dipyridamole in rats. Tariq M, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):944–9

Dipyridamole–cisplatin potentiation: enhanced in vivo cytotoxicity in xenograft models of human testicular and bladder cancers. Keane TE, et al. **J Urol** 1990 Oct; 144(4):1004–9

IgA nephropathy: a long-term progressive study. Orlowski T, et al. **Miner Electrolyte Metab** 1990;16(1):54–6

European Stroke Prevention Study. ESPS Group. **Stroke** 1990 Aug;21(8):1122–30

Relationship between vessel wall 13-HODE synthesis and vessel wall thrombogenicity following injury: influence of salicylate and dipyridamole treatment. Weber E, et al. **Thromb Res** 1990 Feb 1;57(3):383–92

[How important is dipyridamole in patients with ischemic heart disease?] Spácil J. **Cas Lek Cesk** 1990 May 4; 129(18):570–1 (Eng. Abstr.) **(Cze)**

[How long should antithrombotic therapy be continued following aortocoronary bypass surgery?] Pfisterer M, et al. **Schweiz Med Wochenschr** 1989 Oct 28;119(43):1518–20 (Eng. Abstr.) **(Ger)**

[The effect of dipyridamole on the results of allogenic kidney transplantation] Schulze R, et al. **Z Urol Nephrol** 1990 May; 83(5):255–9 (Eng. Abstr.) **(Ger)**

[Therapeutic effects of oral dipyridamole on myocardial perfusion and left ventricular function in patients with hypertrophic cardiomyopathy] Kihara K. **Kaku Igaku** 1990 Feb;27(2):107–15 (Eng. Abstr.) **(Jpn)**

[Platelet aggregation inhibitors in the prevention of myocardial infarction: the results of prospective studies] Shalaev SV. **Kardiologiia** 1989 Sep;29(9):116–20 (52 ref.) **(Rus)**

[Evaluation of interferon-genic activity and clinical effectiveness of kurantil in young children with acute respiratory viral infections] Ralnite-Audinene AB, et al. **Pediatriia** 1989;(10):108–9 **(Rus)**

[Evaluation of the prophylactic use of dipyridamole in obstetrics] Díaz de León Ponce M, et al. **Ginecol Obstet Mex** 1977 Nov;42(253):309–14 (Eng. Abstr.) **(Spa)**

[Use of aspirin in the primary prevention of vascular thrombi. A comparative study with other anti-aggregant drugs] Escudero MC, et al. **Rev Esp Cardiol** 1989 Oct;42(8):536–40 (Eng. Abstr.) **(Spa)**

2,2'-DIPYRIDYL see under **PYRIDINES**

DIPYRINE see **AMINOPYRINE**

DIPYRONE see under **AMINOPYRINE**

DIQUAT see under **PYRIDINIUM COMPOUNDS**

DIRECT LYTIC FACTORS see under **COBRA VENOMS**

DIRECT REPEAT see **REPETITIVE SEQUENCES, NUCLEIC ACID**

DIRECT SERVICE COSTS see under **COSTS AND COST ANALYSIS**

DIRECTORIES

The first international AIDS education directory [news] Allen HF. **AIDS Educ Prev** 1989 Summer;1(2):163
First comprehensive survey of worldwide anti-AIDS efforts published [news] Worthington GM. **AIDS Educ Prev** 1989 Summer;1(2):163
Programs and services for the deaf in the United States. II. Educational programs and services. **Am Ann Deaf** 1989; 134(2):85–153
Programs and services for the deaf in the United States. IV. Research programs and services. **Am Ann Deaf** 1989; 134(2):179–87
Programs and services for the deaf in the United States. III. Supportive and rehabilitative programs and services. **Am Ann Deaf** 1989;134(2):155–77
July 1990 Consultants Listing. **Am Ind Hyg Assoc J** 1990 Jul;51(7):A513–32
Listing of educational programs in occupational therapy. November 1989. **Am J Occup Ther** 1989 Dec;43(12):833–40
City directories as sources for survey work in low- and middle-income black communities. Stanek EJ 3d, et al. **Am J Public Health** 1990 Sep;80(9):1125–6
The New York Academy of Dentistry Fellowship list 1989–90. **Ann Dent** 1989 Winter;48(2):37–45
Clinical toxicology fellowships. **Ann Emerg Med** 1990 Jun; 19(6):688
Aerospace Medical Association. Directory issue. **Aviat Space Environ Med** 1990 Sep;61(9 Pt 2):A1–110
Pediatrics at the New York Academy of Medicine: the first hundred years. Eden AN, et al. **Bull N Y Acad Med** 1988 Dec;64(9):1014–34
Directory of museums and archives of Alaska. **Caduceus** 1990 Spring;6(1):54–5
Public health training opportunities in Canada [editorial] Last JM. **Can J Public Health** 1990 May–Jun;81(3):179–81 **(Eng, Fre)**
Is this physician really a specialist? [editorial] Nielsen EM, et al. **Chest** 1990 Jan;97(1):1
Directory. The Shock Society. **Circ Shock** 1990 May; 31(1):93–147
Yellow Pages vs. jaundiced view. Wynn J. **Colo Med** 1990 Mar;87(3):96–7
Resource guide to alcohol-impaired driving programs and materials. Sleet DA, et al. **Health Educ Q** 1989 Fall; 16(3):439–47
1990 directory. **Hospitals** 1990 Mar 20;64(6):25–38
Boston's Dental Clinic Directory, a student health project. Hozid JL, et al. **HSMHA Health Rep** 1971 Jun;86(6):507–10
Directory of on-going research in cancer epidemiology. 1989/90. **IARC Sci Publ** 1989;(101):1–818
Fellowships in Adolescent Medicine—1990. **J Adolesc Health Care** 1990 Jul;11(4):371–4
Index of Graduate Theses and Projects in Allied Health. **J Allied Health** 1989 Fall;18(5):483–549
Accuracy of postal questionnaires [letter] Robb PJ, et al. **J Laryngol Otol** 1990 Jan;104(1):69
Membership directory. Society for Leukocyte Biology. **J Leukoc Biol** 1990;Suppl 1:126–66
JONA's Semiannual Directory of Consultants to Nursing Administration. **J Nurs Adm** 1990 Jul–Aug;20(7–8):53–104
JONA's semiannual directory of consultants to nursing administration. **J Nurs Adm** 1990 Feb;20(2):43–81
Education programs accredited by the ACNM Division of Accreditation. Current as of November 1989. **J Nurse Midwifery** 1989 Nov–Dec;34(6):341–8
The directory of graduate programs in nutritional sciences. **J Nutr** 1989 Oct;119 Suppl 10:D1–92
Information unbound [editorial] Sutcliffe D. **J R Coll Gen Pract** 1989 Oct;39(327):397–8
Medical schools in the United States. **JAMA** 1990 Aug 15; 264(7):865–78
Medical schools in Canada. **JAMA** 1990 Aug 15;264(7):881–4
Physician service opportunities abroad [news] Goldsmith MF, et al. **JAMA** 1990 Jun 27;263(24):3237
The Kansas Medical Society membership directory 1990. **Kans Med** 1990 Aug;91(8):1–120
Directory of otolaryngological societies. **Laryngoscope** 1990 Sep;100(9):1028–30
1990–1991 MSMA membership directory. Missouri State Medical Association. **Mo Med** 1990 Aug;87(8):495–638
Roster. North Carolina Medical Society. 1989–1990. **N C Med J** 1990 Mar;51(3):9–315
AMNJ: a commitment to education. Alessi AA, et al. **N J Med** 1989 Sep;86(9):693–6
The computer connection. Marcus S. **N J Med** 1989 Sep; 86(9):713–4
Continuing medical education. Thorpe JH. **N J Med** 1989 Sep;86(9):686–7
Pennsylvania Medical Society. Membership directory 1990–91. **Pa Med** 1990 Aug;93(8):69–216
Teratology Society members, 1989–1990. **Teratology** 1990 May;41(5):630–45
American Clinical and Climatological Association. Present members. **Trans Am Clin Climatol Assoc** 1988;100:vii–xxv
Members. American Ophthalmological Society. **Trans Am Ophthalmol Soc** 1990;87:XV–XXX
Association of American physicians. **Trans Assoc Am Physicians** 1989;102:vi–lxxxiii
Association of American Physicians. **Trans Assoc Am Physicians** 1988;101:vii–lxxxi
American Association of Poison Control Centers. Certified regional poison control centers. **Vet Hum Toxicol** 1989 Aug;31(4):394–7
State Medical Society of Wisconsin. 1989 Membership Directory. **Wis Med J** 1989 Aug;88(8):29–279
The International Community of Yeast Genetics and Molecular Biology. **Yeast** 1990 Jul;6 Suppl A:1–238
[Association of anatomists] **Bull Assoc Anat (Nancy)** 1989 Sep;73(222):XI–XX **(Fre)**
[List of members of the Belgian Society of Ophthalmology] **Bull Soc Belge Ophtalmol** 1987;225 Pt 2:I–XXXVI **(Fre)**
[List of members of the Société Médicale d'Afrique noire de Langue française as of January 1, 1988] **Dakar Med** 1988;33(1–4):IV–VIII **(Fre)**

DIROFILARIA see under **FILARIOIDEA**

DIROFILARIA IMMITIS see under **FILARIOIDEA**

DIROFILARIASIS

Human pulmonary dirofilariasis in India: a case report. Badhe BP, et al. **J Trop Med Hyg** 1989 Dec;92(6):425–6
[Autochthonous pulmonary dirofilariasis in Europe] Tornieporth N, et al. **Dtsch Med Wochenschr** 1990 Jan 5; 115(1):15–9 (Eng. Abstr.) **(Ger)**
[A case of ocular dirofilariasis] Beliaev VS, et al. **Vestn Oftalmol** 1989 Nov–Dec;105(6):72–3 **(Rus)**

DIAGNOSIS

Submucous dirofilariasis involving the cheek. Report of a case. Markopoulos AK, et al. **Ann Dent** 1990 Summer; 49(1):34–5, 50
Ophthalmic dirofilariasis. D'Heurle D, et al. **Ann Ophthalmol** 1990 Jul;22(7):273–5
A rapid detection of circulating antigens of Dirofilaria immitis in dogs by a dot enzyme-linked immunosorbent assay. Matsumura K, et al. **FEMS Microbiol Immunol** 1988 Dec;1(3):145–9
Human pulmonary dirofilariasis. Bloch T, et al. **Indiana Med** 1990 Jan;83(1):24–7
Pulmonary coin lesions caused by Dirofilaria immitis. Bailey TS, et al. **J Surg Oncol** 1990 Aug;44(4):268–72 (36 ref.)
Investigation of ecdysteroid excretion by adult Dirofilaria immitis and Brugia pahangi. Mercer JG, et al. **Mol Biochem Parasitol** 1990 Jan 1;38(1):89–95
[Vitreoretinal dirofilariasis] Frieling E, et al. **Klin Monatsbl Augenheilkd** 1990 Apr;196(4):233–6 (Eng. Abstr.) **(Ger)**
[The usefulness of immunologic methods for diagnosis and follow-up study of a case of pulmonary dirofilariasis] Yamashiro T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Jun; 27(6):747–53 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Genetic control of murine immune responses to larval Dirofilaria immitis. Abraham D, et al. **J Parasitol** 1990 Aug; 76(4):523–8

PARASITOLOGY

Pulmonary dirofilariasis: restudy of worms reported gravid. Beaver PC, et al. **Am J Trop Med Hyg** 1990 Aug; 43(2):167–9
Dirofilaria striata infection in a North Carolina child. Orihel TC, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):124–6
[Subcutaneous dirofilariasis: infection with Dirofilaria repens] Bergner T, et al. **Hautarzt** 1990 May;41(5):265–9 (Eng. Abstr.) **(Ger)**
[Distribution pattern of Dirofilaria immitis microfilariae in peripheral blood of a dog and their intake by mosquitoes] Makiya K, et al. **Sangyo Ika Daigaku Zasshi** 1990 Mar 1; 12(1):43–52 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Fine needle aspiration of retroperitoneal human dirofilariasis with a pseudotumoral presentation. Roussel F, et al. **Acta Cytol** 1990 Jul–Aug;34(4):533–5

RADIOGRAPHY

Bilateral pulmonary nodules caused by Dirofilaria immitis. Bradham RR, et al. **Ann Thorac Surg** 1990 Aug;50(2):312–3
[Clinical investigation of pulmonary dirofilariasis with unusual abnormalities on chest roentgenograms] Umeki S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1274–82 (Eng. Abstr.) **(Jpn)**

SURGERY

[Two resected cases of human pulmonary dirofilariasis] Yano M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug; 37(8):1543–8 (Eng. Abstr.) **(Jpn)**

TRANSMISSION

Susceptibility of Aedes albopictus and Culex tritaeniorhynchus (Diptera: Culicidae) collected in Miki City, Japan, to Dirofilaria immitis (Spirurida: Filariidae). Konishi E. **J Med Entomol** 1989 Sep;26(5):420–4

VETERINARY

Enhanced platelet reactivity in heartworm-infected dogs. Boudreaux MK, et al. **Am J Vet Res** 1989 Sep;50(9):1544–7
Comparison of arrhythmogenic doses of epinephrine in heartworm-infected and noninfected dogs. Venugopalan CS, et al. **Am J Vet Res** 1989 Nov;50(11):1872–6
The relative importance of various mosquitoes for the transmission and control of dog heartworm in south-eastern Australia. Russell RC. **Aust Vet J** 1990 May; 67(5):191–2
Evaluation of protein-A gold labelling with Dirofilaria immitis antigen coated nitrocellulose for the detection of anti-heartworm antibody in dogs. Tarish JH, et al. **Aust Vet J** 1989 Sep;66(9):295–6
The effect of infusions of microfilariae (L1 larvae) of Dirofilaria immitis in dogs. Carlisle CH, et al. **Int J Parasitol** 1989 Nov;19(7):729–32
Relative suitability of Aedes albopictus and Aedes aegypti in North Carolina to support development of Dirofilaria immitis. Apperson CS, et al. **J Am Mosq Control Assoc** 1989 Sep;5(3):377–82
Size of blood meals of Aedes albopictus and Culex tritaeniorhynchus (Diptera: Culicidae) feeding on an unrestrained dog infected with Dirofilaria immitis (Spirurida: Filariidae). Konishi E. **J Med Entomol** 1989 Nov;26(6):535–8
Dirofilaria immitis in a river otter (Lutra canadensis) from Louisiana. Snyder DE, et al. **J Wildl Dis** 1989 Oct;25(4):629
Parasites from the Asiatic black bear (Ursus thibetanus) on Kyushu Island, Japan. Yokohata Y, et al. **J Wildl Dis** 1990 Jan;26(1):137–8
Influence of immunosuppressants against Dirofilaria immitis infection in dogs. Hayasaki M, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):955–60
Development of a special alligator forceps for removal of pulmonary heartworms in very small dogs. Ishihara K, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):159–61
Clinical studies on canine dirofilarial hemoglobinuria: measured and calculated serum osmolalities and osmolar gap. Kitagawa H, et al. **Nippon Juigaku Zasshi** 1989 Aug; 51(4):703–10
Improvement in pulmonary arterial lesions after heartworm removal using flexible alligator forceps. Sasaki Y, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):743–52
Prevention of adverse reactions following milbemycin D administration to microfilaremic dogs infected with Dirofilaria immitis. Sasaki Y, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):711–5
The optimal condition for peroxidase-anti-peroxidase staining of lung tissues in canine dirofilariasis. Tanaka K, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):447–51

DIRT-BIKES see **OFF-ROAD MOTOR VEHICLES**

DISABILITY EVALUATION

Injury impairment and disability scales to assess the permanent consequences of trauma. States JD, et al. **Accid Anal Prev** 1990 Apr;22(2):151–60
Medico-legal in ORL. Boniver R, et al. **Acta Otorhinolaryngol Belg** 1988;42(6):722–71
Disability in children with myelomeningocele. A Nordic study. Hagelsteen JH, et al. **Acta Paediatr Scand** 1989 Sep; 78(5):721–7
Excess disability in dementia. Peters DW, et al. **Adv Psychosom Med** 1989;19:17–30 (37 ref.)
The kinetics of plasma aspirin esterase in relation to old age and frailty. Summerbell J, et al. **Age Ageing** 1990 Mar; 19(2):128–30
Doctors and 18-wheelers. Tysinger DS. **Ala Med** 1990 Jun; 59(12):24–5
Assessment of multi-handicapped deaf students. **Am Ann Deaf** 1989;134(2):79–83
The developmental record: reliability and validity in a clinical population. Brems C, et al. **Am J Ment Retard** 1990 May; 94(6):649–53
Who is to decide: functional disability screening as an example [editorial] Neuhauser DB, et al. **Ann Intern Med** 1989 Nov 15;111(10):775–6
Improving patient function: a randomized trial of functional disability screening. Rubenstein LV, et al. **Ann Intern Med** 1989 Nov 15;111(10):836–42
Physiatric therapeutics. 1. Physiatric evaluation. Geiringer SR, et al. **Arch Phys Med Rehabil** 1990 Mar;71(4–S):S258–9
Totaled functional score. Can be valid [letter] Hamilton BB, et al. **Arch Phys Med Rehabil** 1989 Nov;70(12):861–3
Head injury outcome up to ten years later. Rappaport M, et al. **Arch Phys Med Rehabil** 1989 Dec;70(13):885–92
Neuropsychological evaluations, not tests [letter] Risser AH. **Arch Phys Med Rehabil** 1990 Feb;71(2):164

Long-term disability and prolonged sick leaves as outcome measurements in ankylosing spondylitis. Possible predictive factors. Guillemin F, et al. **Arthritis Rheum** 1990 Jul; 33(7):1001–6

Development of a disability measurement tool for juvenile rheumatoid arthritis. The Juvenile Arthritis Functional Assessment Scale. Lovell DJ, et al. **Arthritis Rheum** 1989 Nov;32(11):1390–5

Comparing patient perspectives of disability and treatment effects with quality of participation in a post-acute brain injury rehabilitation programme. Heilbronner RL, et al. **Brain Inj** 1989 Oct–Dec;3(4):387–95

Rheumatoid arthritis and the measurement properties of the physical ability dimension of the Stanford Health Assessment Questionnaire. Ferraz MB, et al. **Clin Exp Rheumatol** 1989 Jul–Aug;7(4):341–4

Discriminating and responsiveness abilities of two hearing handicap scales. Mulrow CD, et al. **Ear Hear** 1990 Jun; 11(3):176–80

The development of a hierarchical polychotomous ADL–IADL scale for noninstitutionalized elders. Kempen GI, et al. **Gerontologist** 1990 Aug;30(4):497–502

The elderly population with chronic functional disability: implications for home care eligibility. Stone RI, et al. **Gerontologist** 1990 Aug;30(4):491–6

Polio survivors in Hawaii: new problems of health and disability [see comments] Okamoto GA, et al. **Hawaii Med J** 1990 Mar;49(3):84, 87–90 Comment in: Hawaii Med J 1990 Mar;49(3):78.

Recent legislative and court activities relating to the SSI and SSDI programs for the mentally ill. Okpaku SO, et al. **Hosp Community Psychiatry** 1990 May;41(5):560–2

Long-term sick leave and disability pensioning due to back disorders of tractor drivers exposed to whole-body vibration. Boshuizen HC, et al. **Int Arch Occup Environ Health** 1990;62(2):117–22

The benefits of using the International Classification of Impairments, Disabilities, and Handicaps in rehabilitation: a survey of 950 cases. Charpentier P. **Int Disabil Stud** 1989 Jul–Sep;11(3):110–3

Use of disablement resettlement officers by patients with musculoskeletal disorders. Storey GO, et al. **Int Disabil Stud** 1989 Jul–Sep;11(3):108–9

Measuring arm impairment and disability after stroke. Wade DT. **Int Disabil Stud** 1989 Apr–Jun;11(2):89–92 (30 ref.)

Assessing the consequences of chronic respiratory disease: a critical review. Williams SJ. **Int Disabil Stud** 1989 Oct–Dec;11(4):161–6

'Breathtaking': the consequences of chronic respiratory disorder. Williams SJ, et al. **Int Disabil Stud** 1989 Jul–Sep; 11(3):114–20

Illness worry and disability in fibromyalgia syndrome. Robbins JM, et al. **Int J Psychiatry Med** 1990;20(1):49–63

Psychologists' role in functional assessment of rehabilitation patients. Talo S, et al. **Int J Rehabil Res** 1989;12(3):251–9

The Groningen Social Disabilities Schedule: development, relationship with I.C.I.D.H., and psychometric properties. Wiersma D, et al. **Int J Rehabil Res** 1988;11(3):213–24

Severe disability in rheumatoid arthritis: assessment following comprehensive rehabilitation. McCarthy G, et al. **Ir J Med Sci** 1989 Sep;158(9):225–7

Measuring disability in rheumatoid arthritis [editorial] O'Casey EB. **Ir J Med Sci** 1989 Sep;158(9):223–4

Task Force II: Determination of occupational working capacity in patients with ischemic heart disease. Haskell WL, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1025–34

Disabling backache in France, Switzerland, and The Netherlands: contrasting sociopolitical constraints on clinical judgment. Hadler NM. **J Occup Med** 1989 Oct; 31(10):823–31

Blood gas analysis as a determinant of occupationally related disability. Morgan WK, et al. **J Occup Med** 1990 May; 32(5):440–3

Severity of disability due to occupational low back injury after lumbar laminectomy for degenerative disc disease. Ryan J, et al. **J Occup Med** 1990 May;32(5):468–72

Mobility of the young adult physically handicapped patient following lower limb surgery in childhood. Spencer JD. **J R Soc Med** 1990 Mar;83(3):168–71

HIV infection documentation for disability. Carpenter H. **J Tenn Med Assoc** 1990 Aug;83(8):414–5

The budget and certifying fitness for work [letter] Mackereth B. **N Z Med J** 1989 Oct 11;102(877):539

Interrater variability with the Expanded Disability Status Scale (EDSS) and Functional Systems (FS) in a multiple sclerosis clinical trial. The Canadian Cooperation MS Study Group. Noseworthy JH, et al. **Neurology** 1990 Jun; 40(6):971–5

The Social Security Disability Evaluation Study. Kennedy C, et al. **New Dir Ment Health Serv** 1990 Spring;(45):29–36

Expedited Social Security disability determinations: the Ohio experience. Kennedy C, et al. **New Dir Ment Health Serv** 1990 Spring;(45):19–27

Determining disability: the treating physician's role. Thorkelson H. **Pa Med** 1990 Feb;93(2):28, 30

The Pain Disability Index: psychometric properties. Tait RC, et al. **Pain** 1990 Feb;40(2):171–82

Diagnosis and classification by physical therapists: a special communication. Jette AM. **Phys Ther** 1989 Nov; 69(11):967–9

Twenty-third Mary McMillan lecture. Footprints. Wood R. **Phys Ther** 1989 Nov;69(11):975–80

The assessment of disability caused by migraine. Hay K. **Practitioner** 1989 Apr 22;233(1467):573–4

A request for certification. Hungin P, et al. **Practitioner** 1989 Oct 22;233(1477):1347, 1349–50

Evaluating the capacity to work of the mentally ill. Massel HK, et al. **Psychiatry** 1990 Feb;53(1):31–43

Multidimensional assessment of the elderly via a microcomputer: the SENOTS program and battery. Stones MJ, et al. **Psychol Aging** 1989 Mar;4(1):113–8

Permanently disabled? [editorial] Dodd NF. **S Afr Med J** 1989 Nov 18;76(10):528

Chronic low-back pain: intercorrelation of repeated measures for pain and disability. Grönblad M, et al. **Scand J Rehabil Med** 1990;22(2):73–7

Rheumatoid arthritis evaluated by locomotion score. A population study. Jonsson B, et al. **Scand J Rheumatol** 1990; 19(3):223–31

Low-back pain. Factors of value in predicting outcome. Lacroix JM, et al. **Spine** 1990 Jun;15(6):495–9

Disability adjudication and the insurance medical director. Battista ME. **Trans Assoc Life Insur Med Dir Am** 1990; 73:73–86

Health characteristics by occupation and industry. **Vital Health Stat [10]** 1989 Dec;(170):i–iv, 1–151

The federal law of age discrimination in the U.S.A. Finkin MW. **Z Gerontol** 1990 Mar–Apr;23(2):97–101

[The role of the risk factors in ischemic heart disease for the work capacity of persons who have had a myocardial infarct] Bashliev I. **Vutr Boles** 1989;28(6):30–6 (Eng. Abstr.) (Bul)

[Trauma of the temporomandibular joint. Disability evaluation according to quantitative and qualitative aspects] Torfs P, et al. **Acta Stomatol Belg** 1989 Jun; 86(1):37–47 (60 ref.) (Eng. Abstr.) (Dut)

[Evaluation of invalidity and work (dis)ability] Lankhorst GJ, et al. **Ned Tijdschr Geneeskd** 1990 Feb 3;134(5):215–7 (Dut)

[Medicolegal estimation of handicap: value of studying binocular visual fields] Foels A, et al. **Bull Soc Ophtalmol Fr** 1989 Apr;89(4):513–4, 517–21 (Eng. Abstr.) (Fre)

[The value of an eye] Jonqueres J, et al. **Bull Soc Ophtalmol Fr** 1989 Apr;89(4):507–12 (Eng. Abstr.) (Fre)

[Assessment instruments used in rehabilitation] Begue-Simon AM. **Int J Rehabil Res** 1989;12(3):279–95 (Eng. Abstr.) (Fre)

[Measurement of handicap in the community: a micro survey in a French village] Minaire P, et al. **World Health Stat Q** 1989;42(3):167–76 (Eng. Abstr.) (Fre)

[Evaluation of physical disability after knee injuries] Arnold K, et al. **Beitr Orthop Traumatol** 1989 Oct–Nov; 36(10–11):517–9 (11 ref.) (Eng. Abstr.) (Ger)

[Nursing care, legal incapacitation, guardianship. Basic principles of legal reform] Baer R. **Fortschr Med** 1990 Mar 30;108(9):173–5 (Eng. Abstr.) (Ger)

[Disability and residual symptoms in schizoaffective psychoses—data, methodologic problems and references for future research] Marneros A, et al. **Fortschr Neurol Psychiatr** 1990 Feb;58(2):66–75 (83 ref.) (Eng. Abstr.) (Ger)

[Decrease in disability pension following replantation] Gasperschitz F, et al. **Handchir Mikrochir Plast Chir** 1990 Mar;22(2):78–81 (Eng. Abstr.) (Ger)

[Observations on the expert evaluation of hand injuries] Scharizer E. **Handchir Mikrochir Plast Chir** 1990 Jul; 22(4):219–22 (Eng. Abstr.) (Ger)

[The legal principles of outpatient management of children with heart diseases] Briedigkeit W, et al. **Kinderarztl Prax** 1989 Jul;57(7):345–9 (Ger)

[What should the Swiss ophthalmologist know about integrity damage?] Baumann HE. **Klin Monatsbl Augenheilkd** 1990 May;196(5):428–9 (Eng. Abstr.) (Ger)

[Reduced visual function in relation to compensation questions] Schipper I, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):425–7 (Eng. Abstr.) (Ger)

[Forensic evaluation of physical damage in the early Middle Ages—a comparison with current occupational disability guidelines] Feldmann H. **Laryngorhinootologie** 1990 Mar; 69(3):166–70 (Eng. Abstr.) (Ger)

[Insurance legislation aspects and peculiarities of occupational legislation in AIDS and HIV infection] Exner-Freisfeld H, et al. **Off Gesundheitswes** 1989 Nov; 51(11):682–7 (Eng. Abstr.) (Ger)

[Forensic problems in neuroses and personality disorders] Gephart W. **Off Gesundheitswes** 1989 Aug–Sep; 51(8–9):516–21 (Eng. Abstr.) (Ger)

[Social medicine analysis: forensic responsibility in primary care: patients, characteristics of the consultation and referring physicians] Piechowiak H, et al. **Off Gesundheitswes** 1989 Nov;51(11):661–6 (Eng. Abstr.) (Ger)

[Analysis of social medicine—quality of information and decisions in 360 expert assessments of work incapacity] Piechowiak H, et al. **Off Gesundheitswes** 1990 Jan; 52(1):30–5 (Eng. Abstr.) (Ger)

[Evaluation of social medicine expert assessment] Piechowiak H. **Off Gesundheitswes** 1989 Oct;51(10):599–603 (Eng. Abstr.) (Ger)

[Medical rehabilitation of disability insurance—determination of the status and future perspectives] Wille G. **Off Gesundheitswes** 1989 Aug–Sep;51(8–9):435–41 (Eng. Abstr.) (Ger)

[Social medicine results of expert assessment of work disability] Zeidler H. **Off Gesundheitswes** 1989 Oct; 51(10):604–7 (Eng. Abstr.) (Ger)

[Medical certification of work and occupational disability] Schuler C. **Orthopade** 1990 Jun;19(3):158–62 (Eng. Abstr.) (Ger)

[Incidence and social medicine significance of chronic obstructive respiratory tract diseases in West Germany 1986] Lauber B. **Pneumologie** 1990 Feb;44 Suppl 1:519–21 (Eng. Abstr.) (Ger)

[Occupational disability evaluation: comparison of subjective assessment with an objective point system] Mösenbacher A, et al. **Pneumologie** 1990 Jul;44(7):887–9 (Eng. Abstr.) (Ger)

[Factors influencing return to vocational activity following healed lesion of the lower extremities] Kiwerski J, et al. **Rehabilitation (Stuttg)** 1989 Aug;28(3):138–42 (Eng. Abstr.) (Ger)

[Rehabilitation—a challenge for lawmakers and social administration] Schulin B. **Rehabilitation (Stuttg)** 1990 Feb; 29(1):33–8 (Eng. Abstr.) (Ger)

[Invalids due to psychiatric reasons] Wyss FE. **Schweiz Arch Neurol Psychiatr** 1990;141(2):163–81 (Eng. Abstr.) (Ger)

[Expert evaluation of children and students in legal accident insurance] Ludolph E, et al. **Unfallchirurgie** 1990 Feb; 16(1):41–3 (Eng. Abstr.) (Ger)

[Developmental trends in application and acceptance of benefits from occupational disability insurance] Garbe H. **Versicherungsmedizin** 1990 Feb 1;42(1):11–6 (Eng. Abstr.) (Ger)

[Analysis of permanent accident-induced physical damage based on statistics of the federal insurance organization] Kalabay L. **Versicherungsmedizin** 1989 Nov 1;41(6):200–3 (Eng. Abstr.) (Ger)

[The disability concept in private accident insurance] Lehmann R. **Versicherungsmedizin** 1989 Nov 1; 41(6):197–200 (9 ref.) (Eng. Abstr.) (Ger)

[Extrinsic-allergic asthma—principles, diagnosis, therapy, danger of disability] Schultze-Werninghaus G. **Versicherungsmedizin** 1990 Apr 1;42(2):38–45 (21 ref.) (Eng. Abstr.) (Ger)

[Causalgia in neurologic expert assessment] Suchenwirth RM. **Versicherungsmedizin** 1990 Aug 1;42(4):121–3 (Eng. Abstr.) (Ger)

[Life expectancy and disability following pleural empyema] Zeidler D. **Versicherungsmedizin** 1990 Apr 1;42(2):45–9 (12 ref.) (Eng. Abstr.) (Ger)

[Duration of occupational incapacity in disability procedures] Gottschall E, et al. **Z Arztl Fortbild (Jena)** 1989; 83(20):1009–12 (Ger)

[The value of expert assessment of disability in neuroses] Hackebeil C, et al. **Z Arztl Fortbild (Jena)** 1989; 83(18):909–11 (Ger)

[Occupational disability and vacation travel] Merkelbach W, et al. **Z Arztl Fortbild (Jena)** 1990;84(5):229–30 (Ger)

[Changes in occupational disability in East Germany in relation to changes in the age structure] Stach H, et al. **Z Arztl Fortbild (Jena)** 1990;84(4):169–71 (Ger)

[Smoking behavior of workers—occupational disability and economic sequelae. A prospective study] Kozák J. **Z Erkr Atmungsorgane** 1989;173(3):229–37 (Eng. Abstr.) (Ger)

[Epidemiology of diseases and handicaps in the elderly] Schlierf G, et al. **Z Gerontol** 1990 Mar–Apr;23(2):108–11 (Eng. Abstr.) (Ger)

[Reform of the guardianship and health care right—a contribution of government to the protection of the elderly] Schlüter W, et al. **Z Gerontol** 1990 Mar–Apr;23(2):68–78 (68 ref.) (Eng. Abstr.) (Ger)

[Knowledge of accident causation research in relation to age-induced decrease in the performance of elderly motorists, their accident risk and legal consequences] Seib H. **Z Gerontol** 1990 Mar–Apr;23(2):86–96 (73 ref.) (Eng. Abstr.) (Ger)

[Differential diagnostic, prognostic and therapeutic aspects in geriatric patients with joint diseases] Steiger U. **Z Gerontol** 1989 Nov–Dec;22(6):279–84 (20 ref.) (Eng. Abstr.) (Ger)

[Long-term release from work] Hurrelmann P, et al. **Z Gesamte Hyg** 1989 Jul;35(7):396–8 (Eng. Abstr.) (Ger)

[Incorporation of work disability into the prolonged life expectancy process] Scholz RD, et al. **Z Gesamte Hyg** 1989 Jun;35(6):370–1 (Eng. Abstr.) (Ger)

[Developmental trends in work absenteeism of adolescents] Stach H, et al. **Z Gesamte Hyg** 1989 Sep;35(9):561–3 (Eng. Abstr.) (Ger)

[Development of the evaluation of physician-related work disability statistics of the social insurance administration of the federal trade union in the public health service] Stach H, et al. **Z Gesamte Hyg** 1989 Jun;35(6):372–5 (Eng. Abstr.) (Ger)

[Disease-related changes in work absenteeism of adolescents from 1967 to 1987] Stach H, et al. **Z Gesamte Hyg** 1989 Sep;35(9):563–7 (Eng. Abstr.) (Ger)

[Occupational disability among teachers and its relation to subjective health status and professional performance] Vogel H, et al. **Z Gesamte Hyg** 1989 Sep;35(9):570–1 (Eng. Abstr.) (Ger)

[Expert assessment of chronic venous insufficiency] Grossmann K, et al. **Z Gesamte Inn Med** 1990 Feb 15; 45(4):115–21 (35 ref.) (Eng. Abstr.) (Ger)

[Management of pre–retirement probands at the onset of retirement age—study exemplified by the Parchim district] Witte FD, et al. **ZFA** 1989 Jul–Aug;44(4):229–36 (Eng. Abstr.) (Ger)

[Physicians' tasks in connection with application for disability pensions] Noreik K, et al. **Tidsskr Nor Laegeforen** 1989 Sep 10;109(25):2562–6 (Eng. Abstr.) (Nor)

[Physical disabilities in Hansen's disease at the time of diagnosis. I. Disability evaluation] Trindade MA, et al. **Hansenol Int** 1987 Dec;12(2):21–8 (Eng. Abstr.) (Por)

[Physical disabilities in Hansen's disease at the time of diagnosis. II. Indicators for evaluating a Hansen's disease control program] Trindade MA, et al. **Hansenol Int** 1987 Dec;12(2):29–37 (Eng. Abstr.) (Por)

[The medical and social–occupational aspects of the sequelae of osteoarticular tuberculosis] Mihail L, et al. **Rev Ig [Pneumoftiziol]** 1989 Jan–Mar;38(1):93–5 (Rum)

[Erythrocytes and the assessment of the physical work capacity of patients with heart valve prostheses] Barbarash NA, et al. **Fiziol Cheloveka** 1989 Sep–Oct;15(5):118–22 (Rus)

[Working conditions and various indicators of morbidity with temporary disability of workers at the petroleum–processing plant] Vorob'eva AI, et al. **Gig Sanit** 1990 Mar;(3):28–30 (Rus)

[Use of the indicators of morbidity with temporary disability during conducting of the sanitary control at the Moscow subway] Dubrovskaia TA, et al. **Gig Tr Prof Zabol** 1989; (8):38–40 (Eng. Abstr.) (Rus)

[Determining the leading occupational and non–occupational factors in the planning of priority measures for reducing the incidence of diseases with temporary disability] Lebedeva NV, et al. **Gig Tr Prof Zabol** 1990;(2):15–7 (Eng. Abstr.) (Rus)

[Incidence of hypertension and ischemic heart disease with temporary disability among workers exposed to vibration] Tsvetkov D, et al. **Gig Tr Prof Zabol** 1990;(1):11–4 (Eng. Abstr.) (Rus)

[Relation between the indicators of temporary disability and risk factors of ischemic heart disease in male industrial workers (epidemiological study)] Vartapetova NV, et al. **Kardiologiia** 1990 Apr;30(4):98–102 (Eng. Abstr.) (Rus)

[Disability caused by hematogenic osteomyelitis in children] Siagallo PT, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):97–9 (Eng. Abstr.) (Rus)

[Criteria of evaluation of the duration of temporary disability after selective proximal vagotomy] Matveenko LI, et al. **Klin Khir** 1989;(8):32–4 (Eng. Abstr.) (Rus)

[Disability as a consequence of ocular pathology in the Ukrainian SSR] Ferfil'ian IL, et al. **Oftalmol Zh** 1989; (5):315–8 (Rus)

[Chronic gunshot osteomyelitis of the long bones of 40–45 years' duration and its significance for expert testimony] Ermachenko BA, et al. **Ortop Travmatol Protez** 1989 Nov; (11):57–62 (Eng. Abstr.) (Rus)

[Characteristics of the structure and dynamics of disability in degenerative and dystrophic diseases of the hip joint] Prokhorov VP. **Ortop Travmatol Protez** 1989 Oct;(10):62–6 (Eng. Abstr.) (Rus)

[Determination of the maximum time period for temporary work incapacity in trauma patients] Prokin BM. **Ortop Travmatol Protez** 1989 Sep;(9):52–5 (Rus)

[The formation of primary disability from injuries and diseases of the bone–muscle system] Trofimovich NI, et al. **Ortop Travmatol Protez** 1989 Sep;(9):49–52 (Rus)

[Preliminary results of a study on shortening periods of treatment and temporary disability of patients with tuberculosis of the respiratory organs] Prilmak AA, et al. **Probl Tuberk** 1989;(10):15–8 (Eng. Abstr.) (Rus)

[Impaired physical work capacity in patients with newly diagnosed destructive pulmonary tuberculosis complicated by bronchial obstruction] Shal'min AS, et al. **Probl Tuberk** 1989;(10):24–6 (Eng. Abstr.) (Rus)

[Temporary disability among workers in bread–baking plants] Anshukov VK, et al. **Sov Zdravookhr** 1990;(2):39–43 (Eng. Abstr.) (Rus)

[Effect of the main factors of the phosphorus industry on the level and prognosis of morbidity with temporary disability] Petrov PP, et al. **Sov Zdravookhr** 1990;(3):42–5 (Eng. Abstr.) (Rus)

[The physical work capacity of diabetics during rehabilitative treatment] Ivanushchak NI, et al. **Ter Arkh** 1990; 62(2):110–5 (Eng. Abstr.) (Rus)

[Physical work capacity studied by measured physical loading in patients with hereditary hemochromatosis] Sharandak AP, et al. **Ter Arkh** 1989;61(11):120–2 (Eng. Abstr.) (Rus)

[New approaches to solving the expert problems of the work capacity of outpatients with hypertension] Tsikulin AE, et al. **Ter Arkh** 1990;62(1):21–3 (Eng. Abstr.) (Rus)

[The role of changes in central and intracardiac hemodynamics in lowering the physical work capacity of patients with ischemic heart disease and diabetes mellitus] Zaev AP, et al. **Ter Arkh** 1989;61(9):53–6 (Eng. Abstr.) (Rus)

[Ways to reduce disability as a consequence of urologic diseases] Pavlova LP, et al. **Urol Nefrol (Mosk)** 1989 Sep–Oct;(5):12–6 (Eng. Abstr.) (Rus)

[An improvement in occupational medical expertise in dermatology and venereology] Anton'ev AA, et al. **Vestn Dermatol Venerol** 1990;(4):42–5 (Eng. Abstr.) (Rus)

[Irreversible conditions after trauma and gunshot wounds] Dolinin VA. **Vestn Khir** 1990 Feb;144(2):64–8 (Eng. Abstr.) (Rus)

[Complicated high myopia as a cause of vision disability in the Armenian SSR] Sardarian LKh. **Vestn Oftalmol** 1989 Sep–Oct;105(5):78–9 (Rus)

[Assessment of the work capacity of patients with ischemic heart disease having undergone aortocoronary shunting] Bykorez VA, et al. **Vrach Delo** 1989 Oct;(10):68–70 (Eng. Abstr.) (Rus)

[The work capacity of patients operated on for congenital heart defects] Chepkaia IL, et al. **Vrach Delo** 1990 Jun; (6):28–30 (Eng. Abstr.) (Rus)

[The work capacity of patients with chronic nonspecific lung diseases combined with ischemic heart disease] Kolesnik FA, et al. **Vrach Delo** 1989 Jul;(7):65–6 (Rus)

[Clinical and expert opinion aspects of vertebrobasilar insufficiency] Grigorian ZN, et al. **Zh Nevropatol Psikhiatr** 1990;90(1):29–32 (Eng. Abstr.) (Rus)

[Disability and arthrotic changes in the lower extremity] Krapac L, et al. **Arh Hig Rada Toksikol** 1989 Sep; 40(3):297–304 (Eng. Abstr.) (Scr)

DISABILITY, PHYSICAL see **HANDICAPPED**

DISABLED see **HANDICAPPED**

DISACCHARIDASES

ANTAGONISTS & INHIBITORS

Effects of acarbose on serum lipoproteins in healthy individuals during prolonged administration of a fiber–free formula diet. Walter–Sack IE, et al. **Ann Nutr Metab** 1989; 33(2):100–7 (29 ref.)

Castanospermine–glucosides as selective disaccharidase inhibitors. Rhinehart BL, et al. **Biochem Pharmacol** 1990 May 15;39(10):1537–43

DEFICIENCY

Hypolactasia and Crohn's disease: a myth. Park RH, et al. **Am J Gastroenterol** 1990 Jun;85(6):708–10

Sugar malabsorption due to deficiencies of disaccharidase activities and of monosaccharide transport. Holzel A. **Arch Dis Child** 1967 Aug;42(224):341–52 (115 ref.)

Radiology in the diagnosis of disaccharidase deficiency. Laws JW, et al. **Br J Radiol** 1967 Aug;40(476):594–603

Combined assessment of intestinal disaccharidases in congenital asucrasia by differential urinary disaccharide excretion. Maxton DG, et al. **J Clin Pathol** 1990 May; 43(5):406–9

METABOLISM

The effect of continued feeding of physiological amounts of lactose on the level of intestinal lactase and other disaccharidase enzyme activities in the rat. Tadesse K. **Exp Physiol** 1990 Mar;75(2):231–8

Disaccharidase activity in the small intestine of gerbils (Meriones unguiculatus) during primary and challenge infections with Giardia lamblia. Belosevic M, et al. **Gut** 1989 Sep;30(9):1213–9

Effects of an enteric anaerobic bacterial culture supernatant and deoxycholate on intestinal calcium absorption and disaccharidase activity. Walshe K, et al. **Gut** 1990 Jul; 31(7):770–6

Low activities of disaccharidases associated with inflamed duodenal bulb mucosa. Jönsson KA, et al. **Hepatogastroenterology** 1990 Apr;37(2):217–22

Activity of duodenal disaccharidases in relation to normal and abnormal mucosal morphology. Langman JM, et al. **J Clin Pathol** 1990 Jul;43(7):537–40

Effect of zinc–deficient diet of varying duration on intestinal disaccharidase activity in the rat. Naveh Y, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):102–6

Oral insulin increases small intestinal mass and disaccharidase activity in the newborn miniature pig. Shulman RJ. **Pediatr Res** 1990 Aug;28(2):171–5

Somatostatin and its analogue (D–Trp8,D–Cys14)–somatostatin do not modify intestinal absorption in vivo of carbohydrates in hamster intestine, but they do modify some disaccharidases. Martínez–Sapiña J, et al. **Q J Exp Physiol** 1989 Nov;74(6):851–6

[Determination of disaccharidase activity in rat serum, bile, urine and various tissues by high–performance liquid chromatography with differential refractometric detection] Iizuka Y, et al. **Yakugaku Zasshi** 1989 Nov;109(11):882–6 (Eng. Abstr.) (Jpn)

[Disaccharidases: 25 years later] Polanco Allúe I, et al. **An Esp Pediatr** 1989 Sep;31(3):322–7 (Eng. Abstr.) (Spa)

DISACCHARIDES

A method for detection of cellulases in polyacrylamide gels using 5–bromoindoxyl–beta–D–cellobioside: high sensitivity and resolution. Chernoglazov VM, et al. **Anal Biochem** 1989 Nov 1;182(2):250–2

Use of benzyl 2–acetamido–2–deoxy–3–O–(2–O–methyl–beta–D–galactosyl)–beta– D–glucopyranoside [2'–O–methyllacto–N–biose I beta Bn] as a specific acceptor for GDP–fucose: N–acetylglucosaminide alpha(1——4)–L–fucosyltransferase. Yazawa S, et al. **Anal Biochem** 1990 Jun;187(2):374–8

Phase structures and transitions in fully hydrated diacyltrehalose. Lis LJ, et al. **Biochim Biophys Acta** 1990 Jan 29;1021(2):201–4

Regioselective syntheses of trehalose–containing trisaccharides using various glycohydrolases. Ajisaka K, et al. **Carbohydr Res** 1990 Jun 1;199(2):227–34

Specific reactivity of the O–(beta–D–glucopyranosyl–(1——6)–D–glucopyranose) linkage with acetic anhydride in the presence of trimethylsilyl trifluoromethanesulfonate. Angibeaud P, et al. **Carbohydr Res** 1990 May 1;198(2):403–7

Synthesis of a trehalose homolog, 6–deoxy–alpha–D–gluco–heptopyranosyl 6–deoxy–alpha–D–gluco–heptopyranoside, and the corresponding bis(heptosiduronic acid). Baer HH, et al. **Carbohydr Res** 1990 Apr 25;200:377–89

Conformational analysis of a disaccharide fragment of the polysaccharide antigen of Streptococcus pneumoniae type 1 using n.m.r. spectroscopy and HSEA calculations. Bock K, et al. **Carbohydr Res** 1990 May 1;198(2):375–80

Structure of the heptose–3–deoxyoctulosonic acid region of Citrobacter lipopolysaccharide core. Gamian A, et al. **Carbohydr Res** 1990 May 1;198(2):381–3

Solution behavior of methyl beta–xylobioside: conformational flexibility revealed by n.m.r. measurements and theoretical calculations. Hricovíni M, et al. **Carbohydr Res** 1990 May 1;198(2):193–203

Steric course of the hydrolysis of alpha,alpha–trehalose and alpha–D–glucosyl fluoride catalyzed by pig kidney trehalase. Nakano M, et al. **Carbohydr Res** 1989 Dec 1; 194:139–44

Synthesis and biological activities of methyl oligobiosaminide and some deoxy isomers thereof. Shibata Y, et al. **Carbohydr Res** 1990 May 15;199(1):37–54

IgG and IgM antibodies immunoreacting with a 2,3–diacyl trehalose–2'–sulphate in sera from leprosy patients. Cruaud P, et al. **Int J Med Microbiol** 1990 Jun;273(2):209–15

Thermodynamic analysis of ligand binding to winged bean (Psophocarpus tetragonolobus) acidic agglutinin reveals its specificity for terminally monofucosylated H–reactive sugars. Acharya S, et al. **J Biol Chem** 1990 Jul 15; 265(20):11586–94

Evaluation of trehalose–mannitol broth for differentiation of Staphylococcus epidermidis from other coagulase–negative staphylococcal species. Knapp CC, et al. **J Clin Microbiol** 1989 Nov;27(11):2624–5

Crystallization and preliminary X–ray diffraction studies of the complex of Maclura pomifera agglutinin with the disaccharide Gal beta 1–3GalNAc. Lee X, et al. **J Mol Biol** 1989 Dec 5;210(3):685–6

Effects of monosaccharides and disaccharides on the formation of food mutagens in model systems. Skog K, et al. **Mutat Res** 1990 Jun;230(2):263–72

ADMINISTRATION & DOSAGE

Prevention of postoperative complications in jaundiced rats. Internal biliary drainage versus oral lactulose. Greve JW, et al. **Ann Surg** 1990 Aug;212(2):221–7

[Infantile constipation and Allomin–lactulose. Treatment of infantile obstipation in infants fed with breast milk substitutes. A controlled clinical trial of 2 per cent and 4 per cent Allomin–lactulose] Hejl M, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1819–22 (Eng. Abstr.) (Dan)

ADVERSE EFFECTS

Structural requirements of heparin disaccharides responsible for hemorrhage: reversion of the antihemostatic effect by ATP. Nader HB, et al. **FASEB J** 1989 Oct;3(12):2420–4

Studies of osmotic diarrhea induced in normal subjects by ingestion of polyethylene glycol and lactulose. Hammer HF, et al. **J Clin Invest** 1989 Oct;84(4):1056–62

ANALYSIS

Trehalose levels and survival ratio of freeze–tolerant versus freeze–sensitive yeasts. Hino A, et al. **Appl Environ Microbiol** 1990 May;56(5):1386–91

Analysis of human tumor associated Thomsen–Friedenreich antigen. Samuel J, et al. **Cancer Res** 1990 Aug 1; 50(15):4801–8

The study on cell surface antigens in epithelial tumor of the upper urinary tract: ABH–isoantigen and Thomsen–Friedenreich antigen. Fukatsu H, et al. **Hinyokika Kiyo** 1989 Jun;35(6):949–54

Solution conformation of the disaccharide of avermectin B1a examined by NMR spectroscopy and nuclear Overhauser enhancement restrained hard–sphere exo–anomeric effect calculation. Neszmélyi A, et al. **J Antibiot (Tokyo)** 1989 Oct;42(10):1494–501

Analysis of Palatinit (isomalt) and its monomers in rat intestinal samples by high–performance liquid chromatography with ultraviolet detection. Klingebiel L, et al. **J Chromatogr** 1990 Apr 27;527(1):238–43

High–performance liquid chromatographic identification of disaccharides generated from heparan sulphate isomers

using heparitinases. Murata K, et al. **J Chromatogr** 1989 Nov 10;496(1):27–38

Expression patterns of the T antigen and the cryptic T antigen in rat fetuses: detection with the lectin amaranthin. Sata T, et al. **J Histochem Cytochem** 1990 Jun;38(6):763–74

Haemolytic uraemic syndrome and the Thomsen Friedenreich antigen. McGraw ME, et al. **Pediatr Nephrol** 1989 Apr;3(2):135–9

[Studies on coloring constituents in commercial madder color] Kawasaki Y, et al. **Eisei Shikenjo Hokoku** 1989; (107):103–5 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Enzyme-catalyzed organic synthesis of sucrose and trehalose with in situ regeneration of UDP-glucose. Haynie SL, et al. **Appl Biochem Biotechnol** 1990 Feb;23(2):155–70

Simulation of the activation of fat body glycogen phosphorylase and trehalose synthesis by peptide hormones in the American cockroach. Veenstra JA. **Biosystems** 1989; 23(1):31–40

BLOOD

[Hemolytic-uremic syndrome in an adult with T-cryptantigen liberation] Rumpf KW, et al. **Dtsch Med Wochenschr** 1990 Aug 24;115(34):1270–5 (46 ref.) (Eng. Abstr.) **(Ger)**

CHEMICAL SYNTHESIS

Exofacial photolabelling of the human erythrocyte glucose transporter with an azitrifluoroethylbenzoyl-substituted bismannose. Clark AE, et al. **Biochem J** 1990 Aug 1; 269(3):615–22

Synthesis of a trehalose homolog, 6-deoxy-alpha-D-gluco-heptopyranosyl 6-deoxy-alpha-D-gluco-heptopyranoside, and the corresponding bis(heptosiduronic acid). Baer HH, et al. **Carbohydr Res** 1990 Apr 25;200:377–89

Convenient syntheses of 5-O- and 3,5-di-O-(beta-D-galactofuranosyl)-D-galactofuranose. de Lederkremer RM, et al. **Carbohydr Res** 1990 Apr 25; 200:227–35

Synthesis and immunoadjuvant activity of 2,2'-O-[2,2'-diacetamido-2,3,2',3'-tetradeoxy-6,6'-di-O-(2-tetradecyl-hexadecanoyl)-alpha,alpha'-trehalose-3,3'-diyl]bis(N-D-lactoyl-L-alanyl -D-isoglutamine). Ishida H, et al. **Carbohydr Res** 1989 Dec 21;195(1):59–66

Synthesis and ring-opening reactions of 4-chloro-4-deoxy-alpha-D-galactopyranosyl 3,4-anhydro-1,6-dichloro-1,6-dideoxy-beta-D-lyxo-hexulofuranoside. Khan R, et al. **Carbohydr Res** 1990 Apr 25;200:189–99

Synthesis of some oligosaccharides containing the O-(2-acetamido-2-deoxy-beta-D-glucopyranosyl)-(1——2)-O-alpha-D-mannopyranosyl unit. Potential substrates for UDP-GlcNAc:alpha-D-mannopyranosyl-(1——6)-N-acetyl-beta-D- glucosaminyltransferase (GnT-V). Khan SH, et al. **Carbohydr Res** 1989 Oct 31;193:125–39

Synthesis of some monodeoxyfluorinated methyl and 4-nitrophenyl alpha-D-mannobiosides and a related 4-nitrophenyl alpha-D-mannotrioside. Khan SH, et al. **Carbohydr Res** 1990 May 1;198(2):259–73

Synthesis of alpha-Kdo-(2——4)-Kdo disaccharide derivatives and their conjugation with a protected form of GLA-60, a biologically active analog of a lipid A subunit. Kiso M, et al. **Carbohydr Res** 1990 Feb 25; 196:59–73

Synthesis of galactofuranose disaccharides of biological significance. Marino C, et al. **Carbohydr Res** 1989 Jul 1; 190(1):65–76

Synthesis of disaccharide fragments of dermatan sulfate. Marra A, et al. **Carbohydr Res** 1989 Dec 21;195(1):39–50

Synthesis of the alpha-Neu5Ac-(2——6)-Gal structure. Facile 6-O-sialylation following stannylene activation of an unprotected D-galactopyranoside. Murase T, et al. **Carbohydr Res** 1989 Dec 21;195(1):134–7

Synthesis of di- and tri-saccharides related to the polysaccharide from Streptococcus pneumoniae type 23 and a study of their inhibition in the precipitin reaction. Ray AK, et al. **Carbohydr Res** 1990 Mar 25;197:93–100

Synthesis of a di- and a tri-saccharide related to the K-antigen of Klebsiella type 10 and a study of their inhibition in the precipitin reaction. Sarkar AK, et al. **Carbohydr Res** 1989 Jul 15;190(2):181–9

DIAGNOSTIC USE

Breath hydrogen response to lactulose in healthy subjects: relationship to methane producing status. Cloarec D, et al. **Gut** 1990 Mar;31(3):300–4

Interval sampling of end-expiratory hydrogen (H2) concentrations to quantify carbohydrate malabsorption by means of lactulose standards. Rumessen JJ, et al. **Gut** 1990 Jan;31(1):37–42

[The H2-lactulose breath test in the diagnosis of intestinal transit time] Wilberg S, et al. **Leber Magen Darm** 1990 May; 20(3):129–37 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Carcinoma autoantigens T and Tn and their cleavage products interact with Gal/GalNAc-specific receptors on rat Kupffer cells and hepatocytes. Schlepper-Schäfer J, et al. **Biochim Biophys Acta** 1989 Oct 9;1013(3):266–72

Quantitation of IgM antibodies to the M. leprae synthetic disaccharide can predict early bacterial multiplication in leprosy. Hussain R, et al. **Int J Lepr Other Mycobact Dis** 1990 Sep;58(3):491–502

Human monoclonal IgM anti-Gal(beta 1-3)GalNAc autoantibodies bind to the surface of bovine spinal motoneurons. Thomas FP, et al. **J Neuropathol Exp Neurol** 1990 Mar;49(2):89–95

Expression of blood group precursor T antigen as a prognostic marker for human bladder cancer treated by bacillus Calmette-Guerin and interleukin-2. Dow JA, et al. **J Urol** 1989 Oct;142(4):978–81; discussion 981–2

Lower motor neuron disease in a patient with autoantibodies against Gal(beta 1-3)GalNAc in gangliosides GM1 and GD1b: improvement following immunotherapy. Shy ME, et al. **Neurology** 1990 May;40(5):842–4

Flow cytometric evaluation of Thomsen-Friedenreich antigen on transitional cell cancer using monoclonal antibody. Oda H, et al. **Urol Res** 1990;18(2):107–11

ISOLATION & PURIFICATION

Identification of 2-acetamido-3-O-(3-acetamido-3,6-dideoxy-beta-D-glucopyranosyl)-2-deoxy -D-galactopyranose isolated after degradation of the lipopolysaccharide from Vibrio parahaemolyticus serotype O12. Kondo S, et al. **Carbohydr Res** 1990 Feb 25;196:191–7

Characterization of novel sequences containing 3-O-sulfated glucosamine in glomerular basement membrane heparan sulfate and localization of sulfated disaccharides to a peripheral domain. Edge AS, et al. **J Biol Chem** 1990 Sep 15;265(26):15874–81

Identification of a disaccharide (Xyl-Glc) and a trisaccharide (Xyl2-Glc) O-glycosidically linked to a serine residue in the first epidermal growth factor-like domain of human factors VII and IX and protein Z and bovine protein Z. Nishimura H, et al. **J Biol Chem** 1989 Dec 5; 264(34):20320–5

[Chemical constituents of Codonopsis pilosula Nannf.] Han G, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb; 15(2):105–6, 127 (Eng. Abstr.) **(Chi)**

[Separation of Thomsen-Friedenreich (T) antigen and N antigen precursor glycoproteins from perchloric acid-soluble fraction of cyst fluid of human ovarian clear cell carcinoma and their some chemical and serological properties] Yanagi K, et al. **Yakugaku Zasshi** 1990 Apr; 110(4):273–9 (Eng. Abstr.) **(Jpn)**

METABOLISM

Diarrhea and short-chain fatty acids in disaccharide malabsorption; regulation of colonic fermentation. Holtug K, et al. **Acta Vet Scand Suppl** 1989;86:143–5

Melibiose is hydrolyzed exocellularly by an inducible exo-alpha-galactosidase in Azotobacter vinelandii. Wong TY. **Appl Environ Microbiol** 1990 Jul;56(7):2271–3

Reactions of reduced cellobiose oxidase with oxygen. Is cellobiose oxidase primarily an oxidase? Wilson MT, et al. **Biochem J** 1990 Aug 15;270(1):265–7

Mechanism of enhanced melibiose transport rate catalyzed by an Escherichia coli lactose carrier mutant with leucine substituted for serine-306. The pH-dependence of melibiose efflux. King SC, et al. **Biochim Biophys Acta** 1990 Mar;1022(3):373–80

Regulation of trehalose metabolism in Saccharomyces cerevisiae mutants during temperature shifts. Panek AC, et al. **Biochimie** 1990 Jan;72(1):77–9

Derivatives of glutamic acid and trehalose which can be transformed into long-living free radicals by the loss of an electron are identified in some bacteria. Biniukov VI, et al. **Biofactors** 1989 Dec;2(2):95–7

Do insects really have a homeostatic hypotrehalosaemic hormone? Veenstra JA. **Biol Rev Camb Philos Soc** 1989 Nov;64(4):305–16 (68 ref.)

Fructose 2,6-bisphosphate and trehalose metabolism in Saccharomyces cerevisiae. Panek AD, et al. **Braz J Med Biol Res** 1989;22(2):171–7

Plaque formation of dietary isomaltulose in humans. Ooshima T, et al. **Caries Res** 1990;24(1):48–51

Accumulation of mannosyl-beta(1——4)-N-acetylglucosamine in fibroblasts and leukocytes of patients with a deficiency of beta-mannosidase. van Pelt J, et al. **Clin Chim Acta** 1990 Jan 31;187(1):55–60

Renal trehalase: function and development. Riby J, et al. **Comp Biochem Physiol [A]** 1990;95(1):95–9

Identification of an ADPG-dependent trehalose synthase in Saccharomyces. Paschoalin VM, et al. **Curr Genet** 1989 Aug;16(2):81–7

Hydrogen excretion after ingestion of five different sugar alcohols and lactulose. Würsch P, et al. **Eur J Clin Nutr** 1989 Dec;43(12):819–25

The hypertrehalosaemic peptides of cockroaches: a phylogenetic study. Gäde G. **Gen Comp Endocrinol** 1989 Aug;75(2):287–300

Characterization and nucleotide sequence of the cryptic cel operon of Escherichia coli K12. Parker LL, et al. **Genetics** 1990 Mar;124(3):455–71

Mechanisms of activation of the cryptic cel operon of Escherichia coli K12. Parker LL, et al. **Genetics** 1990 Mar; 124(3):473–82

Evidence that a low-affinity sucrose phosphotransferase activity in Streptococcus mutans GS-5 is a high-affinity trehalose uptake system. Poy F, et al. **Infect Immun** 1990 May;58(5):1479–80

Trehalose transport and metabolism in Escherichia coli. Boos W, et al. **J Bacteriol** 1990 Jun;172(6):3450–61

Regulation of trehalose metabolism by Streptomyces griseus spores. McBride MJ, et al. **J Bacteriol** 1990 Jul; 172(7):3637–43

Trehalose accumulation in vegetative cells and spores of Myxococcus xanthus. McBride MJ, et al. **J Bacteriol** 1989 Nov;171(11):6383–6

Transport of glucose and cellobiose by Candida wickerhamii and Clavispora lusitaniae. Freer SN, et al. **J Biol Chem** 1990 Aug 5;265(22):12864–8

Sensitivity of efflux-driven carrier turnover to external pH in mutants of the Escherichia coli lactose carrier that have tyrosine or phenylalanine substituted for histidine-322. A comparison of lactose and melibiose. King SC, et al. **J Biol Chem** 1990 Feb 25;265(6):3153–60

Alterations of intestinal permeability to sugars in infants following neonatal surgery. Dupont C, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):66–71

The melibiose/Na+ symporter of Escherichia coli: kinetic and molecular properties. Pourcher T, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1236):411–23 (32 ref.)

[Lactulose] Prat F, et al. **Gastroenterol Clin Biol** 1990; 14(6-7):567–75 **(Fre)**

[The spectrum of S. mutans OMZ 176 products from different mono- and disaccharides] Stösser L, et al. **Zahn Mund Kieferheilkd** 1989;77(8):815–8 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Bile acids reversible effects on small intestinal permeability. An in vitro study in the rabbit. Fasano A, et al. **Dig Dis Sci** 1990 Jul;35(7):801–8

PHARMACOLOGY

Sugar best single chorda tympani nerve fiber responses to various sugar stimuli in rat and hamster. Tonosaki K, et al. **Comp Biochem Physiol [A]** 1989;94(4):603–5

Hypothermic perfusion of rabbit livers: effect of perfusate composition (Ca and lactobionate) on enzyme release and tissue swelling. Lindell S, et al. **Cryobiology** 1989 Oct; 26(5):407–12

The degradation of amino acids, proteins, and blood to short-chain fatty acids in colon is prevented by lactulose. Mortensen PB, et al. **Gastroenterology** 1990 Feb; 98(2):353–60

Lactulose inhibits endotoxin induced tumour necrosis factor production by monocytes. An in vitro study. Greve JW, et al. **Gut** 1990 Feb;31(2):198–203

Stabilization of the bio-membrane by small molecules: interaction of trehalose with the phospholipid bilayer. Chandrasekhar I, et al. **J Biomol Struct Dyn** 1988 Jun; 5(6):1163–71

Effect of lactitol and lactulose administration on the fecal flora in cirrhotic patients. Riggio O, et al. **J Clin Gastroenterol** 1990 Aug;12(4):433–6

Lactobionic acid as an iron chelator: a rationale for its effectiveness as an organ preservant. Isaacson Y, et al. **Life Sci** 1989;45(24):2373–80

Immunologic and toxicologic study of disaccharide tripeptide glycerol dipalmitoyl: a new lipophilic immunomodulator. Vosika GJ, et al. **Mol Biother** 1990 Mar;2(1):50–6

Anticoagulant and antithrombotic properties of synthetic sulfated bis-lactobionic acid amides. Raake W, et al. **Thromb Res** 1989 Dec 15;56(6):719–30

[Effect of lactulose on ammonia metabolism during exercise] Onishi S, et al. **Kokyu To Junkan** 1990 Jul;38(7):693–7 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Successful use of vancomycin hydrochloride in the treatment of lactulose resistant chronic hepatic encephalopathy. Tarao K, et al. **Gut** 1990 Jun;31(6):702–6

Nonabsorbable disaccharides plus neomycin in hepatic encephalopathy: do they enhance each other? Capocaccia L, et al. **Hepatology** 1990 Aug;12(2):368–70

Lactulose as an anti-endotoxin in liver transplantation [letter; comment] **Lancet** 1989 Oct 14;2(8668):927–8 Comment on: Lancet 1989 Jul 22;2(8656):189–91.

Short term effect of lactulose therapy in patients with chronic renal failure. Miura M, et al. **Tokai J Exp Clin Med** 1989 Mar;14(1):29–34

[Crystalline lactulose and oral preparations of micro-organisms for the treatment of chronic aspecific diarrhea in children. A controlled clinical study] Roggero P, et al. **Minerva Pediatr** 1990 Apr;42(4):147–50 (Eng. Abstr.) **(Ita)**

TOXICITY

Chronic toxicity and carcinogenicity study of isomalt in rats and mice. Smits-Van Prooije AE, et al. **Food Chem Toxicol** 1990 Apr;28(4):243–51

Embryotoxicity/teratogenicity of isomalt in rats and rabbits.

Waalkens-Berendsen DH, et al. **Food Chem Toxicol** 1990 Jan;28(1):1-9
Developmental toxicity of isomalt in rats.
Waalkens-Berendsen DH, et al. **Food Chem Toxicol** 1989 Oct;27(10):631-7
Multigeneration reproduction study of isomalt in rats.
Waalkens-Berendsen DH, et al. **Food Chem Toxicol** 1990 Jan;28(1):11-9

URINE

Rapid and simultaneous determination of lactulose and mannitol in urine, by HPLC with pulsed amperometric detection, for use in studies of intestinal permeability.
Fleming SC, et al. **Clin Chem** 1990 May;36(5):797-9
Automated enzymatic assays for the determination of intestinal permeability probes in urine. 1. Lactulose and lactose.
Northrop CA, et al. **Clin Chim Acta** 1990 Feb 28; 187(2):79-87
Combined assessment of intestinal disaccharidases in congenital asucrasia by differential urinary disaccharide excretion.
Maxton DG, et al. **J Clin Pathol** 1990 May; 43(5):406-9
Quantitative analysis of disaccharides in the urine of beta-mannosidosis patients.
Tjoa S, et al.
J Inherited Metab Dis 1990;13(2):187-94

DISARTICULATION

Hindquarter amputation for tumours of the musculoskeletal system.
Carter SR, et al. **J Bone Joint Surg [Br]** 1990 May; 72(3):490-3
Massive osteolysis of the femur (Gorham's disease): a case report and review of the literature.
Mendez AA, et al.
J Pediatr Orthop 1989 Sep-Oct;9(5):604-8 (25 ref.)

METHODS

Knee disarticulation with intercondylar patellofemoral arthrodesis. An improved technique.
Duerksen F, et al.
Clin Orthop 1990 Jul;(256):50-7

REHABILITATION

Double disability of hemiplegia and hip disarticulation: rehabilitation outcome.
Philip PA, et al.
Arch Phys Med Rehabil 1989 Dec;70(13):916-7

DISASTER PLANNING

see related

CIVIL DEFENSE

Planning for disasters: sheltering persons with special health needs [news]
Gulitz E, et al. **Am J Public Health** 1990 Jul;80(7):879-80
An analysis of factors impeding passenger escape from aircraft fires.
Hill IR. **Aviat Space Environ Med** 1990 Mar; 61(3):261-5
Rain of terror. Disaster diary.
Craig BH.
Geriatr Nurs (New York) 1990 Jan-Feb;11(1):28-9
Rain of terror. Help in the aftermath.
Dickson GW.
Geriatr Nurs (New York) 1990 Jan-Feb;11(1):29-30
Power reactor emergency response field monitoring practices in the United States.
Widner TE. **Health Phys** 1990 Jun; 58(6):753-8
Developing a regional and national burn disaster response.
Wachtel TL, et al. **J Burn Care Rehabil** 1989 Nov-Dec; 10(6):561-7
Criteria for the assessment of disaster preparedness.
de Boer J. **J Emerg Med** 1989 Sep-Oct;7(5):481-4
The Ramstein airshow disaster.
Martin TE.
J R Army Med Corps 1990 Feb;136(1):19-26
The Global Maritime Distress and Safety System.
Jones P.
J R Nav Med Serv 1989 Spring;75(1):41-5
Government nuclear accident planning—do doctors have confidence in it? [editorial]
Morrison L. **Med War** 1989 Oct-Dec;5(4):173-4
Joint service training for medical readiness.
Davis RE, et al. **Milit Med** 1990 Feb;155(2):80-3
Report on the International Conference on Emergency Health Care Development.
Dines GB.
Public Health Rep 1990 Jan-Feb;105(1):76-9
[The organization of medical aid in mass thermal injuries]
Povstianol NE, et al. **Klin Khir** 1990;(3):54-7 **(Rus)**
[Organization of the care of the wounded and ill under conditions of nuclear radiation and radioactive contamination]
Arandelović S, et al. **Vojnosanit Pregl** 1990 Mar-Apr;47(2):83-90 (Eng. Abstr.) **(Scr)**
[What can we learn from the ferryboat accident in Zeebrugge? To be well prepared is the best way to meet disasters]
Jakobson J. **Lakartidningen** 1990 Mar 14; 87(11):827, 829 **(Swe)**
[The catastrophic bus accident in Måbydalen. Better disaster planning is needed]
Wode-Helgodt B, et al.
Lakartidningen 1989 Nov 15;86(46):3985-6 **(Swe)**

LEGISLATION & JURISPRUDENCE

Problems associated with the use of immediately dangerous to life and health (IDLH) values for estimating the hazard of accidental chemical releases.
Alexeeff GV, et al.
Am Ind Hyg Assoc J 1989 Nov;50(11):598-605 (61 ref.)
SARA (Superfund Amendments and Reauthorization Act), Title III: implications for emergency physicians.
Leonard RB, et al. **Ann Emerg Med** 1989 Nov;18(11):1212-6
[Recent aspects of emergency service responsibilities for public health services]
Weber K. **Off Gesundheitswes** 1989 Nov;51(11):674-81 (Eng. Abstr.) **(Ger)**

METHODS

Helicopter crash in water: effects of simulator escape training.
Hytten K. **Acta Psychiatr Scand Suppl** 1989;355:73-8
Medical planning for toxic releases into the community: the example of chlorine gas [letter; comment]
Jackson JR.
Br J Ind Med 1989 Oct;46(10):752 Comment on: Br J Ind Med 1989 Apr;46(4):277-85.
Fate of mass burn casualties: implications for disaster planning.
Mackie DP, et al. **Burns** 1990 Jun;16(3):203-6
Emergency medical services for treatment of mass casualties.
Barrier G. **Crit Care Med** 1989 Oct;17(10):1062-7
Are we ready for the next disaster?
Rowlands BJ. **Injury** 1990 Jan;21(1):61-2; discussion 63-4
An analysis of civil aircrash statistics 1977-86 for the purposes of planning disaster exercises.
Rutherford WH. **Injury** 1988 Nov;19(6):384-8
The place of exercises in disaster management.
Rutherford WH. **Injury** 1990 Jan;21(1):58-60; discussion 63-4
Major disasters: an ambulance service view.
Thornley F. **Injury** 1990 Jan;21(1):34-6; discussion 55-7
An allergist's view of medical planning for natural disasters.
Banov CH. **J Allergy Clin Immunol** 1990 Jul;86(1):133-6
Nuclear, biological and chemical warfare. Part III: Medical aspects of chemical warfare.
Kasthuri AS, et al.
J Assoc Physicians India 1990 Jun;38(6):413-4
A day in the life... Adkisson GH.
J R Nav Med Serv 1989 Spring;75(1):23-4
An earthquake preparedness plan at Webster Elementary School.
Van Horst J. **J Sch Health** 1989 Oct;59(8):367-8
Provision of help after major disasters [letter]
Grunmeier PW. **Lancet** 1990 Jul 28;336(8709):259
The needs of a disaster medical assistance team for environmental support services.
Rodenbeck SE.
Milit Med 1990 Jan;155(1):12-3
Disaster drills identify potential for problems in real emergencies.
Rekus JF. **Occup Health Saf** 1989 Oct; 58(11):126-30
[Various methodologic problems in medicine]
Smirnov EI, et al. **Vestn Akad Med Nauk SSSR** 1990;(4):39-41 **(Rus)**
[The organization of medical services for the earthquake victims in the city of Spitak (report I)]
Satsukevich VN, et al. **Vestn Khir** 1990 Feb;144(2):143-6 **(Rus)**

STANDARDS

More on medical disaster management in the United States [letter; comment]
Dugal JJ, et al. **N Engl J Med** 1989 Oct 19;321(16):1130-1 Comment on: N Engl J Med 1989 Apr 6;320(14):941-2.
[Methods of standardization of drug assortments for special situations and catastrophic events]
Klock H, et al.
Pharmazie 1990 Apr;45(4):275-81 (Eng. Abstr.) **(Ger)**

DISASTERS

Catastrophe modelling in the biological sciences.
Deakin MA.
Acta Biotheor (Leiden) 1990 Mar;38(1):3-22 (135 ref.)
The stress upon rescuers involved in an oil rig disaster. "Alexander L. Kielland" 1980.
Ersland S, et al.
Acta Psychiatr Scand Suppl 1989;355:38-49
Disaster psychiatry and traumatic stress studies in Norway. History, current status and future.
Malt UF, et al.
Acta Psychiatr Scand Suppl 1989;355:7-12 (48 ref.)
A research method for the study of psychological and psychiatric aspects of disaster.
Raphael B, et al.
Acta Psychiatr Scand Suppl 1989;353:1-75
Emergency health impact of a severe storm.
Geehr EC, et al. **Am J Emerg Med** 1989 Nov;7(6):598-604
Epidemiologic study of deaths and injuries due to tornadoes.
Carter AO, et al. **Am J Epidemiol** 1989 Dec;130(6):1209-18
The Lockerbie disaster and other aircraft breakups in midair.
Eckert WG. **Am J Forensic Med Pathol** 1990 Jun; 11(2):93-101
Central American countries need drug products and medical supplies [letter]
Serrano JL. **Am J Hosp Pharm** 1989 Nov; 46(11):2250
In the wake of Hurricane Hugo's devastation, Charleston nurses are picking up the pieces [news]
Am J Nurs 1989 Nov;89(11):1535, 1556
After disaster. A crisis support team at work.
Hayes G, et al. **Am J Nurs** 1990 Feb;90(2):61-4
Plane crash.
Petersen R, et al. **Am J Nurs** 1989 Oct; 89(10):1288-9
Buffalo Creek survivors in the second decade: stability of stress symptoms.
Green BL, et al.
Am J Orthopsychiatry 1990 Jan;60(1):43-54
Acute postdisaster psychiatric disorders: identification of persons at risk.
Smith EM, et al. **Am J Psychiatry** 1990 Feb;147(2):202-6
The M1 air crash. The demands placed on anaesthetic and intensive care services of two hospitals.
Coad NR, et al. **Anaesthesia** 1989 Oct;44(10):851-4
Guide to developing an industrial disaster medical service.
Arch Environ Health 1967 Jul;15(1):119-30
The 1987 forest fire disaster in California: assessment of emergency room visits.
Duclos P, et al.
Arch Environ Health 1990 Jan-Feb;45(1):53-8
Nurses respond to Hurricane Hugo victims' disaster stress.
Weinrich S, et al. **Arch Psychiatr Nurs** 1990 Jun; 4(3):195-205
The human factor: United 232.
Moser R Jr.
Aviat Space Environ Med 1989 Oct;60(10 Pt 1):1029
Study on environmental health strategy after earthquake.
Lin Y. **Biomed Environ Sci** 1989 Dec;2(4):331-4
Acute right heart strain after crushing injury at Hillsborough football ground.
Channer KS, et al. **BMJ** 1989 Dec 2; 299(6712):1379-80
Lake Nyos disaster [letter]
Freeth SJ. **BMJ** 1989 Aug 19; 299(6697):513
Personal and medical memories from Hillsborough.
Heller T. **BMJ** 1989 Dec 23-30;299(6715):1596-8
Response of the south Manchester accident rescue team to the earthquake in Armenia and the Lockerbie air disaster.
Redmond AD. **BMJ** 1989 Sep 2;299(6699):611-2
Delayed eye and other consequences from exposure to methyl isocyanate: 93% follow up of exposed and unexposed cohorts in Bhopal.
Andersson N, et al.
Br J Ind Med 1990 Aug;47(8):553-8
After the flood: disaster response and recovery planning.
Green D. **Bull Med Libr Assoc** 1990 Jul;78(3):303-6
None of the doctors sent bills.
Rogans J.
Can Med Assoc J 1989 Nov 1;141(9):960-1, 964
Appropriateness of DSM-III-R criteria for posttraumatic stress disorder.
Solomon SD, et al. **Compr Psychiatry** 1990 May-Jun;31(3):227-37
Mass casualty incident. Integration with prehospital care.
Doyle CJ. **Emerg Med Clin North Am** 1990 Feb;8(1):163-75 (11 ref.)
Plants under drought-stress generate activated oxygen.
Price AH, et al. **Free Radic Res Commun** 1989;8(1):61-6
Rain of terror. Disaster diary.
Craig BH.
Geriatr Nurs (New York) 1990 Jan-Feb;11(1):28-9
Rain of terror. Help in the aftermath.
Dickson GW.
Geriatr Nurs (New York) 1990 Jan-Feb;11(1):29-30
Medical response to major disasters. Stoke on Trent, UK, 2-3 June 1989. **Injury** 1990 Jan;21(1):1-64
Earthquake occurrence and effects.
Adams RD. **Injury** 1990 Jan;21(1):17-20; discussion 29-33
The British Association for Immediate Care (BASICS). Its experience in major disasters, with special reference to the role of the medical incident officer.
Fisher JM. **Injury** 1990 Jan;21(1):45-8; discussion 55-7
Lessons to be learned from the major disaster following the civil airliner crash at Kegworth in January 1989.
Malone WD. **Injury** 1990 Jan;21(1):49-52; discussion 55-7
Lessons from Armenia.
Rudge CJ. **Injury** 1990 Jan; 21(1):13-4; discussion 15-6
Disaster epidemiology: or why most international disaster relief is ineffective.
Seaman J. **Injury** 1990 Jan;21(1):5-8; discussion 15-6
Management of burns in major disasters.
Sharpe DT, et al. **Injury** 1990 Jan;21(1):41-4; discussion 55-7
The Clapham rail disaster.
Stevens KL, et al. **Injury** 1990 Jan;21(1):37-40; discussion 55-7
Acute haemodialysis during the Armenian earthquake disaster.
Tattersall JE, et al. **Injury** 1990 Jan;21(1):25-8; discussion 29-33
The hospital response to the Hillsborough tragedy.
Wardrope J, et al. **Injury** 1990 Jan;21(1):53-4; discussion 55-7
WHO: emergency plan to fight AIDS in Romania [news]
Int Nurs Rev 1990 Mar-Apr;37(2):230-1
Illness among expatriate relief workers during a refugee disaster.
Ryan M, et al. **Int Ophthalmol Clin** 1990 Winter; 30(1):66-7
An allergist's view of medical planning for natural disasters.
Banov CH. **J Allergy Clin Immunol** 1990 Jul;86(1):133-6
Kuru, mycotoxins and volcanic eruptions [letter]
Schoental R. **J Appl Toxicol** 1990 Apr;10(2):153
Disasters big and small.
Dorion RB. **J Can Dent Assoc** 1990 Jul;56(7):593-8
Microcomputer-assisted transmission of disaster data by cellular telephone.
Wigder HN, et al. **J Emerg Med** 1989 Nov-Dec;7(6):651-5
Psychological symptoms in older adults following natural disaster: nature, timing, duration, and course.
Phifer JF, et al. **J Gerontol** 1989 Nov;44(6):S207-17
Stanford scientists ride out earthquake [news]
Andreopoulos S, et al. **J Natl Cancer Inst** 1989 Dec 6;81(23):1770-1
When the disaster is over: helping the healers to mend.
Stanley SR. **J Psychosoc Nurs Ment Health Serv** 1990 May; 28(5):12-6
Invited review: post-traumatic stress disorder; a new clinical entity?
Ramsay R. **J Psychosom Res** 1990;34(4):355-65 (86 ref.)
Operation Nightingale: the role of BMH Dharan following the 1988. Nepal earthquake, and some observations on Third World earthquake disaster relief missions.
Guy PJ, et al. **J R Army Med Corps** 1990 Feb;136(1):7-18
"Hurricane Gilbert".
Parrish MM. **J R Nav Med Serv** 1990 Spring;76(1):43-8
An earthquake preparedness plan at Webster Elementary School.
Van Horst J. **J Sch Health** 1989 Oct;59(8):367-8
Sympathy and altruism in response to disasters.
Russell GW, et al. **J Soc Psychol** 1990 Jun;130(3):309-16
From the Centers for Disease Control. Deaths associated with hurricane Hugo—Puerto Rico. **JAMA** 1989 Oct 27; 262(16):2206
From the centers for disease control. Medical examiner/coroner reports of deaths associated with Hurricane Hugo—South Carolina. **JAMA** 1989 Dec 8;

262(22):3111–2
From the Centers for Disease Control.
Earthquake-associated deaths—California. **JAMA** 1989 Dec 8;262(22):3112, 3115
From the Centers from Disease Control. Update: work-related electrocutions associated with Hurricane Hugo—Puerto Rico. **JAMA** 1989 Nov 24;262(20):2806
Letter from Spitak, Armenia. A phoenix of peace rises from the ashes. Heisler MB, et al. **JAMA** 1989 Oct 27; 262(16):2237–8
A piece of my mind. Aftershock. Purdy LJ. **JAMA** 1990 Jun 6;263(21):2883
California living II: not-the-big-one had no effect on blood pressure [letter] Swislocki A, et al. **JAMA** 1990 Sep 19; 264(11):1411
Drug supply in the aftermath of the 1988 Armenian earthquake. Autier P, et al. **Lancet** 1990 Jun 9; 335(8702):1388–90
Health hazards of volcanic gases [letter] Baxter PJ, et al. **Lancet** 1990 Jul 21;336(8708):176
Portable infusor for victims of catastrophes [letter] Thibaut G. **Lancet** 1990 Mar 10;335(8689):604–5
Survival after burial by avalanche [letter] Giddings P. **Med J Aust** 1990 Aug 6;153(3):172
Unusual medical consequences of seismic activity [letter] Porter N, et al. **Med J Aust** 1990 Jun 4;152(11):616
The Bradford Fire Disaster. Part 1. The initial investigations: who died, where and how? Sivaloganathan S, et al. **Med Sci Law** 1989 Oct;29(4):279–83
The Bradford Fire Disaster. Part 2. Accident reconstruction: who died, when and why. Sivaloganathan S, et al. **Med Sci Law** 1989 Oct;29(4):284–6
Clinical performance in a field exercise for the National Disaster Medical System. Holohan TV, et al. **Milit Med** 1989 Dec;154(12):587–9
Mass casualties on the modern battlefield: problems and proposed solutions [editorial] Nguyen D. **Milit Med** 1990 Apr;155(4):186–7
Flugtag–88 (Ramstein Air Show Disaster): an Army response to a MASCAL. Seletz JM. **Milit Med** 1990 Apr; 155(4):152–5
Surveillance of shelters after Hurricane Hugo—Puerto Rico. **MMWR** 1990 Jan 26;39(3):41–2, 47
Medical examiner/coroner reports of deaths associated with Hurricane Hugo—South Carolina. **MMWR** 1989 Nov 10; 38(44):754, 759–62
Update: work-related electrocutions associated with Hurricane Hugo—Puerto Rico. **MMWR** 1989 Oct 27; 38(42):718–20, 725
Earthquake-associated deaths—California. **MMWR** 1989 Nov 17;38(45):767–70
Earthquake disaster—Luzon, Philippines. **MMWR** 1990 Aug 31;39(34):573–7
Tornado trauma down on the farm. Burgwyn M. **N C Med J** 1990 Feb;51(2):97–100
Geophysical variables and behavior: LX. Lonquimay and Alhué, Chile: tension from volcanic and earthquake hazard. Larraín P, et al. **Percept Mot Skills** 1990 Feb;70(1):296–8
The logic of failure. Dörner D. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):463–73
The contribution of latent human failures to the breakdown of complex systems. Reason J. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):475–84
Rescuing earthquake victims in Armenia. Frechette CN. **Plast Reconstr Surg** 1989 Nov;84(5):838–40
Counselling disaster victims [editorial] Kaufman A. **Practitioner** 1989 Nov 8;233(1478):1423
'Delusion of world destruction' (Wetzel). Comparative study between Japan and West Germany. Tateyama M. **Psychopathology** 1989;22(6):289–94
Morbidity following Mexico City's 1985 earthquakes: clinical and epidemiologic findings from hospitals and emergency units. Sánchez-Carrillo CI. **Public Health Rep** 1989 Sep-Oct;104(5):482–8
Earthquake radiography. Hussain P. **Radiogr Today** 1990 Apr;56(635):22–5
Reduction of births in Italy after the Chernobyl accident. Bertollini R, et al. **Scand J Work Environ Health** 1990 Apr; 16(2):96–101
Managing ecological upheavals: a Third World perspective. Desai B. **Soc Sci Med** 1990;30(10):1065–72
The constant star [editorial] Thomison JB. **South Med J** 1989 Dec;82(12):1461–3
Observations and thoughts about the earthquake and its aftermath [letter] **Trans Stud Coll Physicians Phila** 1990 Mar;12(1):1–3
Cholera epidemic and natural disasters; where is the link. Siddique AK, et al. **Trop Geogr Med** 1989 Oct;41(4):377–82
Bovine fluorosis following volcanic activity in the southern Andes. Araya O, et al. **Vet Rec** 1990 Jun 30;126(26):641–2
After shock. Renneker M. **West J Med** 1990 Jan;152(1):90–1
[The dentist as an expert in disasters: dental identification in the disasters with the Zeebrugge ferry] de Valck E. **Rev Belge Med Dent** 1990;45(1):11–20 (Eng. Abstr.) (Fre)
[Resistance to drought of mollusks of the genus Bulinus, vectors of human and animal trematode infections in Senegal. II. Study under natural conditions in the North-Sudan area. Ecology and resistance to drought of Bulinus umbilicatus and B. senegalensis] Diaw OT, et al. **Rev Elev Med Vet Pays Trop** 1989;42(2):177–87 (Eng. Abstr.) (Fre)
[Malnutrition and nutritional emergencies in the framework of assistance by the International Red Cross Committee] Mourey A. **Rev Med Suisse Romande** 1990 May; 110(5):405–11 (Fre)
[Medico-pharmaceutical provisions of the International Red Cross Committee in emergency situations] Musy A, et al. **Rev Med Suisse Romande** 1990 May;110(5):425–8 (Fre)
[Health effects of volcanic air pollution—an analysis of the national health insurance] Wakisaka I, et al. **Nippon Eiseigaku Zasshi** 1989 Dec;44(5):977–86 (Eng. Abstr.) (Jpn)
[From war psychiatry to disaster and crisis psychiatry] Weisaeth L. **Nord Med** 1990;105(6–7):177–8 (Eng. Abstr.) (Nor)
[The rescue action in Trollveggen during the Easter holiday in 1989. General and medical experiences] Strømskag KE, et al. **Tidsskr Nor Laegeforen** 1989 Dec 10; 109(34–36):3547–50 (Eng. Abstr.) (Nor)
[Children and disasters (editorial)] Ulvik A. **Tidsskr Nor Laegeforen** 1989 Nov 30;109(33):3402 (Nor)
[Selection of/methods of anesthesia and intensive treatment of patients with long-term crush syndrome (work experience in the Armenian SSR from December 8 to December 26, 1988)] Rudenko MI, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):46–9 (Rus)
[Therapeutic aid to the victims of the earthquake in Armenia (December, 1988)] Ivashkin VT, et al. **Klin Med (Mosk)** 1990 Mar;68(3):44–50 (Rus)
[Intensive therapy of patients with long-term crush syndrome (data of the earthquake in Armenian SSR in December 1988)] Ivashkin VT, et al. **Klin Med (Mosk)** 1990 May; 68(5):40–4 (Rus)
[Tactics in long-term crush syndrome] Osepian IA, et al. **Ortop Travmatol Protez** 1990 May;(5):62–6 (Rus)
[Organization of medical services for the victims of the earthquake in the Armenian SSR] Tumian SD, et al. **Ortop Travmatol Protez** 1990 Apr;(4):53–6 (Rus)
[Treatment of open injuries in the victims of the earthquake in Armenian SSR] Bialik IF, et al. **Sov Med** 1989;(10):18–21 (Eng. Abstr.) (Rus)
[Functional methods of examination of the victims of the earthquake with crush syndrome in the Armenian S.S.R] Ishmukhametov AI, et al. **Sov Med** 1989;(10):12–4 (Eng. Abstr.) (Rus)
[Formation of functional stumps of the extremities in severe mechanical trauma] Kliukvin IIu, et al. **Sov Med** 1989; (10):14–7 (Eng. Abstr.) (Rus)
[Use of infrared ray laser irradiation in the rehabilitation treatment of patients with long-term crush syndrome in an emergency care hospital] Lapshin VP, et al. **Sov Med** 1989;(10):8–10 (Eng. Abstr.) (Rus)
[Experience with the treatment of open fractures of the extremities in patients with extensive crush syndrome of soft tissues after mass hospitalization] Sergeev SV, et al. **Sov Med** 1989;(10):10–2 (Rus)
[Organization of medical services for the victims of the earthquake in Armenian SSR] Teriaev VG, et al. **Sov Med** 1989;(10):3–7 (Rus)
[Organization of medical services for the victims of the earthquake in the city of Spitak, Armenian S.S.R.] Satsukevich VN, et al. **Vestn Khir** 1990 Mar;144(3):66–70 (Eng. Abstr.) (Rus)
[The organization of medical services for the earthquake victims in the city of Spitak (report I)] Satsukevich VN, et al. **Vestn Khir** 1990 Feb;144(2):143–6 (Rus)
[The principles of rendering surgical care in catastrophes] Briusov PG. **Voen Med Zh** 1990 Apr;(4):29–32 (Eng. Abstr.) (Rus)
[Aviation support of measures for rendering medical care to the victims of natural disasters, accidents and catastrophes] Bugrov SA, et al. **Voen Med Zh** 1990 Apr; (4):22–5 (Eng. Abstr.) (Rus)
[Experience in supplying medical stores in eliminating the consequences of catastrophes] Chernousov VA. **Voen Med Zh** 1990 Apr;(4):27–8 (Rus)
[The organization of health and hygiene measures for the troops participating in the elimination of the consequences of catastrophes] Chvyrev VG, et al. **Voen Med Zh** 1990 Apr;(4):59–63 (Rus)
[The organization of care for burn victims in catastrophes] Fedorov VD, et al. **Voen Med Zh** 1990 Apr;(4):38–41 (Eng. Abstr.) (Rus)
[THe activities of the medical service for airborne troops in eliminating the consequences of catastrophes] Grebeniuk BV. **Voen Med Zh** 1990 Apr;(4):26–7 (Rus)
[The organization of specialized therapeutic care for the victims in the earthquake in Armenia] Ivashkin VT, et al. **Voen Med Zh** 1990 Mar;(3):25–31 (Rus)
[The therapeutic problems of medicine in catastrophes] Ivashkin VT, et al. **Voen Med Zh** 1990 Apr;(4):32–7 (Eng. Abstr.) (Rus)
[The neurosurgical aspects of medicine in catastrophes] Konvalov AN, et al. **Voen Med Zh** 1990 Apr;(4):41–3 (Eng. Abstr.) (Rus)
[The organization of medical evacuation and epidemic control measures in an earthquake zone] Korotkikh PP, et al. **Voen Med Zh** 1990 Feb;(2):24–6 (Rus)
[Characteristics of the organization of medical care in mass health casualties during the earthquake in Armenia] Korotkikh PP, et al. **Voen Med Zh** 1989 Dec;(12):19–20 (Rus)
[The methodology for systems research on the factor of water in an earthquake zone] Lopatin SA, et al. **Voen Med Zh** 1989 Aug;(8):21–4 (Rus)
[Organizational characteristics of supplying medical stores under extreme situations] Mazur AF. **Voen Med Zh** 1989 Sep;(9):15–7 (Rus)
[The methodological basis for a medical system in extreme situations] Nechaev EA, et al. **Voen Med Zh** 1990 Apr; (4):5–10 (Eng. Abstr.) (Rus)
[The characteristics of the medical evacuation measures in a railroad accident in Bashkiria] Nechaev EA, et al. **Voen Med Zh** 1989 Oct;(10):12–7 (Rus)
[Work support and organization of a surgical group from the leadership staff of a specialized medical care unit during the elimination of the aftereffects of the earthquake in Armenia] Nechaev EA, et al. **Voen Med Zh** 1989 Nov; (11):24–8 (Rus)
[The epidemiological sequelae of catastrophes and the tasks of the medical service in their elimination] Perepelkin VS, et al. **Voen Med Zh** 1990 Jan;(1):31–6 (Rus)
[Experience in organizing epidemic control work in catastrophes] Perepelkin VS, et al. **Voen Med Zh** 1990 Apr; (4):56–9 (Eng. Abstr.) (Rus)
[The aid American military physicians rendered] Pogrebenkov VI. **Voen Med Zh** 1989 Sep;(9):17–8 (Rus)
[An expert assessment of the organization of medical care in peacetime catastrophes] Potapov AI, et al. **Voen Med Zh** 1990 Apr;(4):11–4 (Eng. Abstr.) (Rus)
[The anesthesiological-resuscitation aspects and the medical problems of catastrophes] Riabov GA, et al. **Voen Med Zh** 1990 Apr;(4):46–9 (13 ref.) (Eng. Abstr.) (Rus)
[The choice of anesthesia and characteristics of intensive therapy in urgent and emergency surgery of earthquake victims] Rudenko MI, et al. **Voen Med Zh** 1989 Aug; (8):24–7 (Rus)
[The organization of the work of a center for providing medical care in an earthquake focus] Satsukevich VN, et al. **Voen Med Zh** 1989 Jul;(7):20–4 (Rus)
[Syndromic characteristics of foci of strong poisons] Savateev NV, et al. **Voen Med Zh** 1989 Dec;(12):31–4 (Rus)
[The outcomes in crush syndrome of the extremities half a year after the earthquake in Armenia] Shaposhnikov IuG, et al. **Voen Med Zh** 1990 Apr;(4):44–5 (Eng. Abstr.) (Rus)
[The psychiatry of catastrophes] Smirnov VK, et al. **Voen Med Zh** 1990 Apr;(4):49–56 (Rus)
[The organization of protection and of the delivery of medical care for the population of the USA in catastrophes and other emergency conditions] Vorob'ev AI. **Voen Med Zh** 1990 Apr;(4):68–72 (11 ref.) (Rus)
[The effect of the earthquake in Armenia on the mental health of the pediatric population of the damaged regions] Kozlovskaia GV, et al. **Zh Nevropatol Psikhiatr** 1990; 90(5):46–52 (Eng. Abstr.) (Rus)
[Mental disturbances in the victims of the earthquake in Armenia (based on examination data in the medical institutions of Moscow)] Liberman IuI, et al. **Zh Nevropatol Psikhiatr** 1990;90(5):42–6 (Eng. Abstr.) (Rus)
[Outfitting pharmacies for catastrophes and natural disasters] Stupar D, et al. **Vojnosanit Pregl** 1989 Jul–Aug; 46(4):268–72 (Scr)

STATISTICS & NUMERICAL DATA

The 1988 earthquake in Soviet Armenia: a case study. Noji EK, et al. **Ann Emerg Med** 1990 Aug;19(8):891–7
Avalanche trauma. Grossman MD, et al. **J Trauma** 1989 Dec; 29(12):1705–9

DISCHARGE PLANNING see **PATIENT DISCHARGE**

DISCITIS

COMPLICATIONS

Rheumatoid discitis with cord compression at the thoracic level. van der Horst-Bruinsma IE, et al. **Br J Rheumatol** 1990 Feb;29(1):65–8
[Retropneumoperitoneum and febrile jaundice revealing abscess of the psoas and Escherichia coli spondylodiscitis (letter)] Chailloux P, et al. **Presse Med** 1990 Feb 17; 19(6):264 (Fre)

DIAGNOSIS

Intervertebral discitis in childhood. Hassoon MM, et al. **Ann Trop Paediatr** 1989 Dec;9(4):221–5
Answer to Case of the Month #3. Pyogenic discitis. Staphylococcal discitis complicated by bilateral psoas abscesses. Torbink R, et al. **Can Assoc Radiol J** 1990 Feb; 41(1):49–50
Echographic evaluation of tubercular abscesses in lumbar spondylitis. Rubaltelli L, et al. **J Ultrasound Med** 1990 Feb; 9(2):67–70
MRI of disc space infection in infants and children. Report of 12 cases. du Lac P, et al. **Pediatr Radiol** 1990;20(3):175–8
[Intervertebral discitis in children] Storm K. **Ugeskr Laeger** 1990 Aug 27;152(35):2513–4 (Eng. Abstr.) (Dan)
[Discitis in children and adolescents] Nothjunge J.

Klin Padiatr 1989 Sep-Oct;201(5):400-4 (13 ref.) (Eng. Abstr.) (Ger)

[Osteomyelitis (spinal infection, spondylitis, spondylodiscitis) of the dens axis] Fischer U, et al. Rontgenblatter 1990 Feb; 43(2):54-7 (Eng. Abstr.) (Ger)

[What is your diagnosis? Staphylococcal spondylodiscitis] Brückle W. Schweiz Rundsch Med Prax 1990 Jul 17; 79(29-30):875-6 (Ger)

[Nuclear magnetic resonance tomography in destructive changes of the spine] Krödel A, et al. Z Orthop 1990 Mar-Apr;128(2):183-90 (Eng. Abstr.) (Ger)

[Magnetic resonance in the study of spondylodiscitis] Bartolozzi C, et al. Radiol Med (Torino) 1989 Sep; 78(3):153-7 (Eng. Abstr.) (Ita)

[Magnetic resonance in the diagnosis of spondylodiscitis (letter)] Nolla JM, et al. Med Clin (Barc) 1989 Sep 23; 93(8):315 (Spa)

ETIOLOGY

Contribution of skeletal scanning to early diagnosis of postoperative spondylodiscitis. Kala M, et al. Acta Univ Palacki Olomuc Fac Med 1989;121:345-9

Discitis after discography. The role of prophylactic antibiotics. Osti OL, et al. J Bone Joint Surg [Br] 1990 Mar;72(2):271-4

Candida spondylodiscitis. Chronic illness due to heroin analgesia in an HIV positive person [letter] Boix V, et al. J Rheumatol 1990 Apr;17(4):563-5

Infection of the intervertebral disc space after placement of a percutaneous lumboperitoneal shunt for benign intracranial hypertension. Cabezudo JM, et al. Neurosurgery 1990 Jun;26(6):1005-8; discussion 1008-9

[Spondylodiscitis caused by Candida albicans in a former drug addict in the course of acquired immunodeficiency syndrome (AIDS)] Saint-Marc T, et al. Ann Med Interne (Paris) 1989;140(8):738-40 (Fre)

[Cervical spondylodiscitis caused by Kingella kingae. Apropos of a case] Petrus M, et al. Ann Pediatr (Paris) 1990 Mar;37(3):170-2 (Eng. Abstr.) (Fre)

[Spondylodiscitis caused by Enterobacter cloacae treated with cefixime (letter)] Chassagne P, et al. Presse Med 1990 Apr 7;19(14):673-4 (Fre)

[Intrathoracic sarcoidosis associated with tuberculous spondylodiscitis. 2 cases] Crestani B, et al. Rev Pneumol Clin 1990;46(1):35-8 (Eng. Abstr.) (Fre)

[Aseptic spondylodiscitis after surgical repair of disk hernia. Apropos of 3 cases] Balague F, et al. Rev Rhum Mal Osteoartic 1989 Nov;56(11):785-8 (Fre)

[Aseptic cervical spondylodiscitis in Behçet's disease (letter)] Rozadilla A, et al. Rev Rhum Mal Osteoartic 1990 May; 57(5):444 (Fre)

[Pseudomonas aeruginosa arthritis and discitis in systemic lupus erythematosus] Mader R, et al. Harefuah 1990 Feb 1;118(3):149-50 (Eng. Abstr.) (Heb)

MICROBIOLOGY

Discitis caused by the Centers for Disease Control microorganism Group Ve-1. Levy DI, et al. Neurosurgery 1989 Oct;25(4):655-7

PATHOLOGY

Automated percutaneous biopsy in postoperative diskitis: a new method. Onik G, et al. AJNR 1990 Mar-Apr; 11(2):391-3

Variable histopathology of discovertebral lesion (spondylodiscitis) of ankylosing spondylitis. Agarwal AK, et al. Clin Exp Rheumatol 1990 Jan-Feb;8(1):67-9

PREVENTION & CONTROL

Prophylaxis of postoperative lumbar spondylodiscitis. Zink PM, et al. Neurosurg Rev 1989;12(4):297-303

RADIOGRAPHY

Radiological cases of the month. Diskitis. Magera BE, et al. Am J Dis Child 1989 Dec;143(12):1479-80

[Nonspecific spondylodiscitis in childhood. New findings about the disease] Kreuzberg B, et al. Cesk Radiol 1990 May;44(3):193-201 (Eng. Abstr.) (Cze)

[Postoperative lumbar intervertebral discitis] Scharfetter F. Aktuel Probl Chir Orthop 1989;35:41-5 (Ger)

[The value of early computerized tomography studies in rare complications following intervertebral disk surgery] Vogl G. Nervenarzt 1990 Apr;61(4):225-7 (Ger)

[Spondylodiscitis in Bechterew's disease (Andersson lesion)] Brambs HJ, et al. ROFO 1989 Sep;151(3):377-8 (Ger)

RADIONUCLIDE IMAGING

Bone scintigraphy in calcific discitis of childhood. Delpassand ES, et al. J Nucl Med 1990 Feb;31(2):234-6

Scintigraphic detection of bone and joint infections with indium-111-labeled nonspecific polyclonal human immunoglobulin G [see comments] Oyen WJ, et al. J Nucl Med 1990 Apr;31(4):403-12 Comment in: J Nucl Med 1990 Apr;31(4):413-6.

THERAPY

[Differentiated surgical and conservative treatment of spondylitis and spondylodiscitis] Krödel A, et al. Z Orthop 1989 Sep-Oct;127(5):587-96 (Eng. Abstr.) (Ger)

DISCLOSURE, TRUTH see **TRUTH DISCLOSURE**

DISCOLYSIS see **INTERVERTEBRAL DISK CHEMOLYSIS**

DISCRETE SUBAORTIC STENOSIS see **AORTIC VALVE STENOSIS**

DISCRETIONARY ADJUSTMENT FACTOR see **PROSPECTIVE PAYMENT SYSTEM**

DISCRIMINANT ANALYSIS

The clinical utility of discriminant functions for the differential diagnosis of microcytic anemias. Bentley SA, et al. Blood Cells 1989;15(3):575-82; discussion 583-4

Discriminant functions. England JM. Blood Cells 1989; 15(3):463-71; discussion 472-3

Discriminant analysis. Solberg HE. CRC Crit Rev Clin Lab Sci 1978;9(3):209-42 (239 ref.)

Prediction of operator-binding protein by discriminant analysis. Nakata K, et al. Gene Anal Tech 1989 Nov-Dec; 6(6):111-9

Mixture models for partially unclassified data: a case study of renal venous renin in hypertension. McLachlan GJ, et al. Stat Med 1989 Oct;8(10):1291-300

DISCRIMINATION (PSYCHOLOGY)

Circadian rhythms and patterns of performance before and after simulated jet lag. Tapp WN, et al. Am J Physiol 1989 Oct;257(4 Pt 2):R796-803

Gestalts are more closely associated with performance on a discrimination task than are component stimuli. King DL. Am J Psychol 1990 Spring;103(1):37-52

Brightness discrimination and contrast sensitivity in chronic glaucoma--a clinical study. Teoh SL, et al. Br J Ophthalmol 1990 Apr;74(4):215-9

Recency and frequency discrimination in the amnesic patient H.M. Sagar HJ, et al. Brain 1990 Jun;113 (Pt 3):581-602

Nonverbal recognition and recency discrimination deficits in Parkinson's disease and Alzheimer's disease. Sullivan EV, et al. Brain 1989 Dec;112 (Pt 6):1503-17

The interaction of acetylcholinergic and serotonergic neural systems on performance in a continuous non-matching to sample task. Sakurai Y, et al. Brain Res 1990 Jun 11; 519(1-2):118-21

A disorder of lightness discrimination in a case of visual form agnosia. Milner AD, et al. Cortex 1989 Sep;25(3):489-94

Asymmetrical effects of neuroleptics on psychotic patients' performance of a tactile discrimination task. Tomer R. J Nerv Ment Dis 1989 Nov;177(11):699-700

Elementary processes of response selection mediated by distinct regions of the striatum. Brown VJ, et al. J Neurosci 1989 Nov;9(11):3760-5

Low-dose caffeine discrimination in humans. Griffiths RR, et al. J Pharmacol Exp Ther 1990 Mar;252(3):970-8

Drug discrimination: methods for drug characterization and classification. Bigelow GE, et al. NIDA Res Monogr 1989; 92:101-22 (16 ref.)

Three-choice discrimination among (+)-amphetamine, fenfluramine and saline in pigeons. Evans SM, et al. Pharmacol Biochem Behav 1990 Apr;35(4):971-80

Stimulus effects of N-monoethyl-1-(3,4-methylenedioxyphenyl)-2-aminopropane (MDE) and N-hydroxy-1-(3,4-methylenedioxyphenyl)-2-aminopropane (N-OH MDA) in rats trained to discriminate MDMA from saline. Glennon RA, et al. Pharmacol Biochem Behav 1989 Aug;33(4):909-12

Phencyclidine pharmacokinetics and concentration-response relationships in the pigeon. Owens SM, et al. Pharmacol Biochem Behav 1990 Apr;35(4):797-801

Discriminative stimulus properties of (+)cathine, an alkaloid of the khat plant. Pehek EA, et al. Pharmacol Biochem Behav 1990 Jun;36(2):267-71

Butorphanol's efficacy at mu and kappa opioid receptors: inferences based on the schedule-controlled behavior of nontolerant and morphine-tolerant rats and on the responding of rats under a drug discrimination procedure. Picker MJ, et al. Pharmacol Biochem Behav 1990 Jul; 36(3):563-8

Orientation discrimination in the cat: a distributed function. Orban GA, et al. Proc Natl Acad Sci U S A 1990 Feb; 87(3):1134-8

DRUG EFFECTS

Time-dependent effect of ethanol upon discrimination behavior. Schechter MD. Alcohol 1989 Nov-Dec; 6(6):445-9

Evidence against an involvement of the haloperidol-sensitive sigma recognition site in the discriminative stimulus properties of (+)-N-allylnormetazocine ((+)-SKF 10,047). Singh L, et al. Br J Pharmacol 1990 Jan; 99(1):145-51

Discriminative stimulus effects of enkephalin analogs, EK-209 and EK-399, in rats. Nishida N, et al. Eur J Pharmacol 1989 Dec 12;174(1):71-6

Characterisation of the discriminative stimulus properties of flumazenil. Woudenberg F, et al. Eur J Pharmacol 1990 Mar 13;178(1):29-36

Selective D1 and D2 dopamine antagonists decrease response rates of food-maintained behavior and reduce the discriminative stimulus produced by heroin. Corrigall WA, et al. Pharmacol Biochem Behav 1990 Feb;35(2):351-5

Atropine effects on delayed discrimination performance of rats. Elsmore TF, et al. Pharmacol Biochem Behav 1989 Apr;32(4):971-5

Potentiation of cocaine's discriminative effects by caffeine: a time-effect analysis. Gauvin DV, et al. Pharmacol Biochem Behav 1990 May;36(1):195-7

Phosphodiesterase inhibitors potentiate opiate-antagonist discrimination by morphine-dependent rats. Holtzman SG. Pharmacol Biochem Behav 1989 Aug;33(4):875-9

Failure of SCH 23390 to function as a discriminative stimulus in rats. Kamien JB, et al. Pharmacol Biochem Behav 1989 Oct;34(2):337-40

Signal detection analysis of ethanol effects on a complex conditional discrimination. Melia KF, et al. Pharmacol Biochem Behav 1989 Jul;33(3):581-4

Mecamylamine increases nicotine preference and attenuates nicotine discrimination. Rose JE, et al. Pharmacol Biochem Behav 1989 Apr;32(4):933-8

Interactions of diazepam and pentobarbital with RO 15-4513 on intracranial self-stimulation discrimination behavior in rats. Schaefer GJ, et al. Pharmacol Biochem Behav 1989 Sep;34(1):23-7

Temporal parameters of cathinone, amphetamine and cocaine. Schechter MD. Pharmacol Biochem Behav 1989 Oct;34(2):289-92

Potentiation of cathinone by caffeine and nikethamide. Schechter MD. Pharmacol Biochem Behav 1989 Jun; 33(2):299-301

Behavioral performance effects of nifedipine in normotensive baboons: single dosing. Turkkan JS, et al. Pharmacol Biochem Behav 1989 Aug;33(4):923-6

Discriminative stimulus properties of the mixed agonist-antagonist pentazocine in the rat using two-choice discrete-trial avoidance paradigm. Ukai M, et al. Pharmacol Biochem Behav 1989 Jun;33(2):355-9

Scopolamine and methylscopolamine differentially affect fixed-consecutive-number performance of male and female Wistar rats. van Haaren F, et al. Pharmacol Biochem Behav 1989 Jun;33(2):361-5

Discriminative stimulus properties of flesinoxan. Ybema CE, et al. Pharmacol Biochem Behav 1990 Apr;35(4):781-4

Discriminative stimulus properties of local anesthetics in d-amphetamine- and pentobarbital-trained pigeons. Zacny JP, et al. Pharmacol Biochem Behav 1989 Jul;33(3):527-31

Drug discrimination models in anxiety and depression. Andrews JS, et al. Pharmacol Ther 1990;47(2):267-80 (138 ref.)

Differentiation between the stimulus effects of (+)-lysergic acid diethylamide and lisuride using a three-choice, drug discrimination procedure. Callahan PM, et al. Psychopharmacology (Berl) 1990;100(1):13-8

Discriminative stimulus properties of 8-OH-DPAT in rats are not altered by pretreatment with para-chlorophenylalanine. Kalkman HO. Psychopharmacology (Berl) 1990;101(1):39-42

Mu-opioid component of the ethylketocyclazocine (EKC) discriminative stimulus in the rat. Locke KW, et al. Psychopharmacology (Berl) 1989;99(4):492-6

Repeated exposure to diisopropylfluorophosphate (DFP) produces increased sensitivity to cholinergic antagonists in discrimination retention and reversal. Raffaele K, et al. Psychopharmacology (Berl) 1990;100(2):267-74

Chlordiazepoxide reduces discriminability but not rate of forgetting in delayed conditional discrimination. Tan S, et al. Psychopharmacology (Berl) 1990;101(4):550-4

Drug discrimination based on the competitive N-methyl-D-aspartate antagonist, NPC 12626. Willetts J, et al. Psychopharmacology (Berl) 1989;99(4):458-62

Diazepam and delta-9-THC: contrasting effects on the discrimination of speech sounds in nonhuman primates. Hienz RD, et al. Psychopharmacology (Berlin) 1989; 99(2):261-9

Discriminative stimulus effects of intravenous l-nicotine and nicotine analogs or metabolites in squirrel monkeys. Takada K, et al. Psychopharmacology (Berlin) 1989;99(2):208-12

[Ethanol-induced discriminative stimulus properties in inbred rats with reference to aspirin, indomethacin and desipramine] Suzuki T, et al. Arukoru Kenkyuto Yakubutsu Ison 1989 Dec;24(6):490-503 (Eng. Abstr.) (Jpn)

[Assessment of drug effects on memory by delayed discrimination responses in rats] Hironaka N, et al. Nippon Yakurigaku Zasshi 1990 Jun;95(6):309-18 (Eng. Abstr.) (Jpn)

PHYSIOLOGY

Measurement and modeling of peripheral detection and discrimination thresholds. Fleck HJ. Biol Cybern 1989; 61(6):437-46

Manual asymmetry in weight discrimination: hand preference or hemispheric specialization? Brodie EE. Cortex 1989 Sep; 25(3):417-23

Orientation discrimination sensitivity of single units in cat primary visual cortex. Scobey RP, et al. Exp Brain Res 1989;77(2):398-406

The response variability of striate cortical neurons in the behaving monkey. Vogels R, et al. Exp Brain Res 1989; 77(2):432-6

Contingent negative variation and reaction time of

physically-trained subjects in simple and discriminative tasks. Arito H, et al. **Ind Health** 1990;28(2):97–106
Biometric analyses of vibrissal tactile discrimination in the rat. Carvell GE, et al. **J Neurosci** 1990 Aug;10(8):2638–48
Frequency discrimination in the sense of flutter: psychophysical measurements correlated with postcentral events in behaving monkeys. Mountcastle VB, et al. **J Neurosci** 1990 Sep;10(9):3032–44
The discriminative stimulus properties of the 5HT1 agonist RU24969. Gardner CR. **Pharmacol Biochem Behav** 1989 Aug;33(4):761–4
Drug discrimination in rats successively trained to discriminate diazepam and pentobarbital. Nierenberg J, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):405–12
Effects of copper and vitamin B-6 deficiency on taste sensitivity in the rat: a signal detection analysis. Brosvic GM, et al. **Physiol Behav** 1989 Jun;45(6):1139–46
The capacity of humans to identify odors in mixtures. Laing DG, et al. **Physiol Behav** 1989 Nov;46(5):809–14
Rats' short-term memory for brief electrical stimulation of the ventral tegmental area of the brain. Wilkie DM, et al. **Physiol Behav** 1989 Sep;46(3):387–91
Attentional modulation of neural processing of shape, color, and velocity in humans. Corbetta M, et al. **Science** 1990 Jun 22;248(4962):1556–9
Contrast discrimination cannot explain spatial frequency, orientation or temporal frequency discrimination. Bowne SF. **Vision Res** 1990;30(3):449–61
Discrimination of luminance and chromaticity differences by dichromatic and trichromatic monkeys. Jacobs GH. **Vision Res** 1990;30(3):387–97
[Daily and seasonal variations in olfactory sensitivity of mothers after parturition and their capacity to discriminate the body odor of their newborn. Preliminary findings] Bonnin F, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990; 19(2):165–70 (Eng. Abstr.) (Fre)
[Acoustic evoked discrimination potentials in early childhood] Görke W, et al. **EEG EMG** 1990 Jun; 21(2):111–7 (Eng. Abstr.) (Ger)
[The discrimination of frequency-modulated signals under free behavior conditions in cats] Kalmykova IV. **Zh Vyssh Nerv Deiat** 1990 May-Jun;40(3):451–5 (Eng. Abstr.) (Rus)

DISCRIMINATION LEARNING

The effect of learning and age on short-term fluctuation and mean sensitivity of automated static perimetry. Autzen T, et al. **Acta Ophthalmol (Copenh)** 1990 Jun;68(3):327–30
Discrimination of cardinal compass directions. Carreiras M, et al. **Acta Psychol (Amst)** 1990 Feb;73(1):3–11
Object superiority: a comparison of complete and part probes. Davidoff J, et al. **Acta Psychol (Amst)** 1990 Apr; 73(3):225–43
Components of Stroop-like interference in word reading. La Heij W, et al. **Acta Psychol (Amst)** 1990 Mar;73(2):115–29
Processing dominance of global and local information in visual patterns. Luna D, et al. **Acta Psychol (Amst)** 1990 Mar;73(2):131–43
Large and rapid improvement in form discrimination accuracy following a location precue. Lyon DR. **Acta Psychol (Amst)** 1990 Feb;73(1):69–82
Effect of conflicting cues on information processing: the 'Stroop effect' vs. the 'Simon effect'. Simon JR, et al. **Acta Psychol (Amst)** 1990 Mar;73(2):159–70
Perceptual selectivity is task dependent: evidence from selective search. Theeuwes J. **Acta Psychol (Amst)** 1990 Jun;74(1):81–99
The effects of kinetic occlusion and categorization on amodal completion. A comment on Gerbino and Salmaso (1987). Wagemans J, et al. **Acta Psychol (Amst)** 1989 Dec; 72(3):281–293; discussion 295–300
Partial report, visual matching, and search as a function of cue-delay. Schulz T. **Arch Psychol (Frankf)** 1989; 141(3):213–35
Speeding up visual discrimination learning in cats by differential exposure of positive and negative stimuli. de Weerd P, et al. **Behav Brain Res** 1990 Jan 1;36(1-2):1–12
Illusory contour orientation discrimination in the cat. De Weerd P, et al. **Behav Brain Res** 1990 Jun 18;39(1):1–17
Enhancing the impact of visual extra-maze cues in a spatial orientation task. Etienne AS, et al. **Behav Brain Res** 1990 May 28;38(3):199–210
The long-term retention of events in monkey memory. Gower EC. **Behav Brain Res** 1990 May 28;38(3):191–8
Visual discrimination of discontinuous figures in the rabbit. Lagers-van Haselen GC, et al. **Behav Brain Res** 1990 Jan 1;36(1-2):21–5
Fixed-consecutive-number performance in male and female Wistar rats. van Haaren F, et al. **Behav Brain Res** 1990 Mar 26;37(3):255–61
Visual and auditory delayed discriminations in male and female Wistar rats. van Hest A, et al. **Behav Brain Res** 1990 Feb 12;37(1):29–36
Partition between stimuli slows down greatly discrimination learning in binocularly deprived cats. Zablocka T, et al. **Behav Brain Res** 1990 Jan 1;36(1-2):13–9
Overcoming unlearned response biases: delayed escape following errors facilitates acquisition of win-stay and win-shift working memory water-escape tasks in rats. Comer TR, et al. **Behav Neural Biol** 1989 Sep;52(2):239–50
Problem solving ability of Octopus vulgaris Lamarck (Mollusca, Cephalopoda). Fiorito G, et al. **Behav Neural Biol** 1990 Mar;53(2):217–30
Long-term spontaneous improvement of performance is related to the strength of the initial training: theoretical implications. Gisquet-Verrier P, et al. **Behav Neural Biol** 1990 Mar;53(2):298–304
Behavioral bias and left-right response differentiation in the rat. Noonan M, et al. **Behav Neural Biol** 1989 Nov; 52(3):406–10
Facilitation of acquisition and retention in preweanling but not postweanling rats by the presence of familiar home-nest material. Smith GJ, et al. **Behav Neural Biol** 1989 Nov; 52(3):370–85
The effects of aging in rats on working and refcrence memory performance in a spatial holeboard discrimination task. van der Staay FJ, et al. **Behav Neural Biol** 1990 May; 53(3):356–70
Working memory in aged rats. Aggleton JP, et al. **Behav Neurosci** 1989 Oct;103(5):975–83
Event-related potentials before and after training: chronometry and lateralization of visual N1 and N2. Ciesielski KT, et al. **Biol Psychol** 1989 Jun;28(3):227–38
Abstract letter identities and developmental dyslexia. Bigsby P. **Br J Psychol** 1990 May;81 (Pt 2):227–63
Repetition priming from incomplete faces: evidence for part to whole completion. Brunas J, et al. **Br J Psychol** 1990 Feb;81 (Pt 1):43–56
Expertise and configural coding in face recognition [published erratum appears in Br J Psychol 1989 Nov;80(Pt 4):526] Rhodes G, et al. **Br J Psychol** 1989 Aug;80 (Pt 3):313–31
Serial processing of visual spatial patterns in a search paradigm. Efron R, et al. **Brain Cogn** 1990 Jan;12(1):17–41
Mental rotation of laterally presented random shapes in males and females. Van Strien JW, et al. **Brain Cogn** 1990 Mar; 12(2):297–303
Hemispheric resource limitations in comprehending ambiguous pictures. White H, et al. **Brain Cogn** 1990 Mar; 12(2):182–94
Detectability as a function of spatial location: effects of selective attention. Yund EW, et al. **Brain Cogn** 1990 Jan; 12(1):42–54
Detectability gradients as a function of target location. Yund EW, et al. **Brain Cogn** 1990 Jan;12(1):1–16
Right hemisphere advantage in lexical decision with two-character Chinese words. Keung HS, et al. **Brain Lang** 1989 Nov;37(4):606–15
Visual search along the colour dimension. Moraglia G, et al. **Can J Psychol** 1989 Mar;43(1):1–12
Probability matching in visual selective attention. van der Heijden AH. **Can J Psychol** 1989 Mar;43(1):45–52
A global developmental trend in cognitive processing speed. Hale S. **Child Dev** 1990 Jun;61(3):653–63
When experimental findings conflict with everyday observations: reflections on children's category learning [comment] [see comments] Kemler Nelson DG. **Child Dev** 1990 Jun;61(3):606–10 Comment on: Child Dev 1990 Jun;61(3):593–605. Comment in: Child Dev 1990 Jun;61(3):611–3.
Infant chimpanzees spontaneously perceive both concrete and abstract same/different relations. Oden DL, et al. **Child Dev** 1990 Jun;61(3):621–31
Children and adults learn family-resemblance categories analytically [see comments] Ward TB, et al. **Child Dev** 1990 Jun;61(3):593–605 Comment in: Child Dev 1990 Jun;61(3):606–10.
Further comments on the attribute availability hypothesis of children's category learning [comment] Ward TB. **Child Dev** 1990 Jun;61(3):611–3 Comment on: Child Dev 1990 Jun;61(3):606–10.
Infants' detection of correlations among feature categories. Younger B. **Child Dev** 1990 Jun;61(3):614–20
Concepts of potency and resistance in causal prediction. Zelazo PD, et al. **Child Dev** 1989 Dec;60(6):1307–15
Jordan Left-Right Reversal Test: an analysis of visual reversals in children and significance for reading problems. Jordan BT, et al. **Child Psychiatry Hum Dev** 1990 Fall; 21(1):65–73
Behavioral reactions to gustatory stimuli in young chicks (Gallus gallus domesticus). Ganchrow JR, et al. **Dev Psychobiol** 1990 Mar;23(2):103–17
Development of mother discrimination by single and multiple newborn lambs. Nowak R, et al. **Dev Psychobiol** 1989 Dec; 22(8):833–45
Mother and sibling discrimination at a distance by three- to seven-day-old lambs. Nowak R. **Dev Psychobiol** 1990 Apr;23(3):285–95
Tactile discrimination of thickness. John KT, et al. **Exp Brain Res** 1989;78(1):62–8
Discrimination of facial expressions of emotion by depressed subjects. Cooley EL, et al. **Genet Soc Gen Psychol Monogr** 1989 Nov;115(4):449–65
Vibrotactile temporal gap detection as a function of age. Van Doren CL, et al. **J Acoust Soc Am** 1990 May;87(5):2201–6
Discrimination training for persons with developmental disabilities: a comparison of the task demonstration model and the standard prompting hierarchy. Repp AC, et al. **J Appl Behav Anal** 1990 Spring;23(1):43–52
Stimulus complexity and autistic children's responsivity: assessing and training a pivotal behavior. Burke JC, et al. **J Autism Dev Disord** 1990 Jun;20(2):233–53
Coding and recall of categorized material in aphasics. Gutbrod K, et al. **J Clin Exp Neuropsychol** 1989 Dec; 11(6):821–41
Effects of stimulus degradation on letter-matching performance of left and right hemispheric stroke patients. Wolcott CL, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):222–34
A clinical study of the automated assessment of intelligence by the Mill Hill Vocabulary test and the Standard Progressive Matrices test. French CC, et al. **J Clin Psychol** 1990 Mar;46(2):129–40
Sex differences in spatial ability and activity in two vole species (Microtus ochrogaster and M. pennsylvanicus). Gaulin SJ, et al. **J Comp Psychol** 1990 Mar;104(1):88–93
Effects of experience and motivation on symmetrical-maze performance in the prairie vole (Microtus ochrogaster). Gaulin SJ, et al. **J Comp Psychol** 1990 Jun;104(2):183–9
Social blockade of taste-aversion learning in Norway rats (Rattus norvegicus): is it a social phenomenon? Heyes CM, et al. **J Comp Psychol** 1990 Mar;104(1):82–7
Sexual-discrimination learning in male Japanese quail (Coturnix coturnix japonica). Nash S, et al. **J Comp Psychol** 1989 Dec;103(4):347–58
Central-place foraging by Rattus norvegicus on a radial maze. Phelps MT, et al. **J Comp Psychol** 1989 Dec; 103(4):326–38
Discrimination training and formative evaluation for remediation in basic waxing skills. Knight GW, et al. **J Dent Educ** 1990 Mar;54(3):194–8
Choice behavior in transition: development of preference for the higher probability of reinforcement. Bailey JT, et al. **J Exp Anal Behav** 1990 May;53(3):409–22
Contrast as seen in visual search reaction times. Blough DS. **J Exp Anal Behav** 1989 Nov;52(3):199–211
On the limits of the matching concept in monkeys (Cebus apella). D'Amato MR, et al. **J Exp Anal Behav** 1989 Nov; 52(3):225–36
The effects of nodality on the formation of equivalence classes. Fields L, et al. **J Exp Anal Behav** 1990 May; 53(3):345–58
A functional analysis of another individual's behavior as discriminative stimulus for a monkey. Fushimi T. **J Exp Anal Behav** 1990 Mar;53(2):285–91
Simultaneous auditory discrimination. Harrison JM. **J Exp Anal Behav** 1990 Jul;54(1):45–51
Instructional control of generalized relational matching to sample in children. Lowenkron B. **J Exp Anal Behav** 1989 Nov;52(3):293–309
Matching, delay-reduction, and maximizing models for choice in concurrent-chains schedules. Luco JE. **J Exp Anal Behav** 1990 Jul;54(1):53–67
Global increase in response latencies by early middle age: complexity effects in individual performances. Myerson J, et al. **J Exp Anal Behav** 1989 Nov;52(3):353–62
Alternative reinforcement increases resistance to change: Pavlovian or operant contingencies? Nevin JA, et al. **J Exp Anal Behav** 1990 May;53(3):359–79
Equivalence classes generated by sequence training. Sigurdardottir ZG, et al. **J Exp Anal Behav** 1990 Jan; 53(1):47–63
An ecological analysis of knowing by wielding. Turvey MT, et al. **J Exp Anal Behav** 1989 Nov;52(3):387–407
Conditioned reinforcement versus time to reinforcement in chain schedules. Williams BA, et al. **J Exp Anal Behav** 1990 May;53(3):381–93
Absence of anticipatory contrast in rats trained on multiple schedules. Williams BA. **J Exp Anal Behav** 1990 May; 53(3):395–407
Form categorization in 10-month-olds. Colombo J, et al. **J Exp Child Psychol** 1990 Apr;49(2):173–88
Impact of practice on speed of mental rotation. Kail R, et al. **J Exp Child Psychol** 1990 Apr;49(2):227–44
Developmental differences in visual processing: strategy versus structure. Ruskin EM, et al. **J Exp Child Psychol** 1990 Aug;50(1):1–24
Discrimination training of mirror-image stimuli with a delayed-prompt technique: some critical dimensions of extra-stimulus prompts. Smeets PM, et al. **J Exp Child Psychol** 1990 Apr;49(2):275–99
Complementary versus contrastive classification in preschool children. Waxman SR, et al. **J Exp Child Psychol** 1989 Dec;48(3):410–22
Infant categorization: memory for category-level and specific item information. Younger B. **J Exp Child Psychol** 1990 Aug;50(1):131–55
Attentional priming and visual search in pigeons. Blough PM. **J Exp Psychol [Anim Behav]** 1989 Oct;15(4):358–65
Element and compound matching-to-sample performance in pigeons: the roles of information load and training history. Brown MF, et al. **J Exp Psychol [Anim Behav]** 1990 Apr; 16(2):185–92
Effect of reinforcer devaluation on discriminative control of instrumental behavior. Colwill RM, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):40–7
Hierarchical structures: chunking by food type facilitates spatial memory. Dallal NL, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):69–84
Rule abstraction, item memory, and chunking in rat serial-pattern tracking. Fountain SB. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):96–105
Transfer of negative occasion setting and conditioned inhibition across conditioned and unconditioned stimuli. Holland PC. **J Exp Psychol [Anim Behav]** 1989 Oct;

15(4):311–28
Acquired equivalence and distinctiveness of cues. Honey RC, et al. J Exp Psychol [Anim Behav] 1989 Oct;15(4):338–46
Buildup and release from proactive interference in a rhesus monkey. Jitsumori M, et al.
J Exp Psychol [Anim Behav] 1989 Oct;15(4):329–37
Configural associations in discrimination learning. Pearce JM, et al. J Exp Psychol [Anim Behav] 1990 Jul;16(3):250–61
Context extinction following conditioning with delayed reward enhances subsequent instrumental responding. Reed P, et al. J Exp Psychol [Anim Behav] 1990 Jan;16(1):48–55
The role of information about the response–outcome relation in instrumental discrimination learning. Rescorla RA.
J Exp Psychol [Anim Behav] 1990 Jul;16(3):262–70
Matching–to–sample by an echolocating dolphin (Tursiops truncatus). Roitblat HL, et al.
J Exp Psychol [Anim Behav] 1990 Jan;16(1):85–95
Expectancies of reinforcer location and quality as cues for a conditional discrimination in pigeons. Williams DA, et al. J Exp Psychol [Anim Behav] 1990 Jan;16(1):3–13
On the intricacies involved in the study of similarity judgments: comment on Ritov, Gati, and Tversky [see comments] Keren G. J Exp Psychol [Gen] 1990 Mar; 119(1):42–3; discussion 44 Comment in: J Exp Psychol [Gen] 1990 Mar;119(1):30–41.
Composite holographic associative recall model (CHARM) and blended memories in eyewitness testimony. Metcalfe J. J Exp Psychol [Gen] 1990 Jun;119(2):145–60
Differential weighting of common and distinctive components [see comments] Ritov I, et al.
J Exp Psychol [Gen] 1990 Mar;119(1):30–41 Comment in: J Exp Psychol [Gen] 1990 Mar;119(1):42–3; discussion 44.
Cross–modal additive conjoint structures and psychophysical scale convergence. Ward LM. J Exp Psychol [Gen] 1990 Jun;119(2):161–75
Integrating information from separable psychological dimensions. Ashby FG, et al.
J Exp Psychol [Hum Percept] 1990 Aug;16(3):598–612
Effect of surface medium on visual search for orientation and size features. Cavanagh P, et al.
J Exp Psychol [Hum Percept] 1990 Aug;16(3):479–91
Is numerical comparison digital? Analogical and symbolic effects in two–digit number comparison. Dehaene S, et al.
J Exp Psychol [Hum Percept] 1990 Aug;16(3):626–41
Visual gap and offset discrimination and its relation to categorical identification in brief line–element displays. Foster DH, et al. J Exp Psychol [Hum Percept] 1989 Nov; 15(4):771–84
Coactivation in the perception of redundant targets. Fournier LR, et al. J Exp Psychol [Hum Percept] 1990 Aug; 16(3):538–50
Transparent layer constancy. Gerbino W, et al.
J Exp Psychol [Hum Percept] 1990 Feb;16(1):3–20
Age differences and similarities in the effects of cues and prompts. Hartley AA, et al.
J Exp Psychol [Hum Percept] 1990 Aug;16(3):523–37
Dissociation of short– and long–range apparent motion in visual search. Ivry RB, et al.
J Exp Psychol [Hum Percept] 1990 May;16(2):317–31
Orientation congruency effects on the identification of disoriented shapes. Jolicoeur P.
J Exp Psychol [Hum Percept] 1990 May;16(2):351–64
Evidence for two types of spatial representations: hemispheric specialization for categorical and coordinate relations. Kosslyn SM, et al.
J Exp Psychol [Hum Percept] 1989 Nov;15(4):723–35
Development and transfer of automatic processing. Kramer AF, et al. J Exp Psychol [Hum Percept] 1990 Aug; 16(3):505–22
A model of character recognition and legibility. Loomis JM.
J Exp Psychol [Hum Percept] 1990 Feb;16(1):106–20
Coordinate frame for symmetry detection and object recognition. Pashler H. J Exp Psychol [Hum Percept] 1990 Feb;16(1):150–63
Emergent features, attention, and perceptual glue in visual form perception. Pomerantz JR, et al.
J Exp Psychol [Hum Percept] 1989 Nov;15(4):635–49
Conjunction search revisited. Treisman A, et al.
J Exp Psychol [Hum Percept] 1990 Aug;16(3):459–78
Judgments of proportions. Varey CA, et al.
J Exp Psychol [Hum Percept] 1990 Aug;16(3):613–25
Conjunctive search for one and two identical targets. Ward R, et al. J Exp Psychol [Hum Percept] 1989 Nov; 15(4):664–72
Discrimination learning during the first year: stimulus and positional cues. Colombo J, et al.
J Exp Psychol [Learn Mem Cogn] 1990 Jan;16(1):98–109
Roles of function, reminding, and variability in categorization by 3–month–old infants. Greco C, et al.
J Exp Psychol [Learn Mem Cogn] 1990 Jul;16(4):617–33
Illusion reversal rate as a function of subjective depth. Borresen CR. J Gen Psychol 1990 Jan;117(1):39–46
Conditional discrimination of series containing either two or three rewarded trials. Burns RA, et al. J Gen Psychol 1990 Apr;117(2):161–9
A test for order relevance in a three–element serial learning task [published erratum appears in J Gen Psychol 1990 Apr;117(2):234–5] Burns RA, et al. J Gen Psychol 1990 Jan;117(1):91–8
Representation of letters when mislocation errors occur. Chastain G. J Gen Psychol 1990 Apr;117(2):143–51
Recognition of altered shapes by hearing and hearing–impaired subjects. Chen KC, et al.
J Gen Psychol 1990 Jan;117(1):27–37
Form characteristics of category–retrieval relationships in children and adults. Lange G, et al. J Gen Psychol 1990 Jan;117(1):5–14
Information integration in an area judgment task: effect of aids on children's perceptual judgments. Mullet E, et al. J Genet Psychol 1989 Dec;150(4):375–88
Complexity discrimination as a determinant of children's preferences in collative motivation. Werner AB, et al.
J Genet Psychol 1990 Jun;151(2):231–43
Verbalization of appropriate and inappropriate cues in discrimination reversal learning by moderately mentally retarded children. Umetani T, et al. J Ment Defic Res 1989 Dec;33 (Pt 6):487–92
Opioid drug discrimination in humans: stability, specificity and relation to self–reported drug effect. Bickel WK, et al. J Pharmacol Exp Ther 1989 Dec;251(3):1053–63
Learning effects of piano playing on tactile recognition of sequential stimuli. Hatta T, et al. Neuropsychologia 1989; 27(11–12):1345–56
Hemispheric differences in global versus local processing of hierarchical visual stimuli by normal subjects: new data and a meta–analysis of previous studies. Van Kleeck MH. Neuropsychologia 1989;27(9):1165–78
Visual memory lateralization in pigeons. von Fersen L, et al. Neuropsychologia 1990;28(1):1–7
Visual discrimination by rats with transplacentally induced micrencephaly. Rabe A, et al. Neurotoxicol Teratol 1990 Jul–Aug;12(4):399–403
Orbeli's experimental work on color discrimination in dogs. Windholz G. Pavlov J Biol Sci 1989 Oct–Dec;24(4):133–7
Learning effects while passively viewing the Necker cube. Beer J. Percept Mot Skills 1989 Dec;69(3 Pt 2):1391–4
Sex differences and the role of figural complexity in determining the rate of mental rotation. Bryden MP, et al. Percept Mot Skills 1990 Apr;70(2):467–77
Performance of field–dependent and field–independent subjects on a rod and frame discrimination task. Byrd GR, et al. Percept Mot Skills 1990 Jun;70(3 Pt 2):1089–92
Continuation of visual–field mapping for a target embedded in a regular background. Courtney AJ.
Percept Mot Skills 1989 Dec;69(3 Pt 1):843–9
Finger–pressure waveforms measured on Clynes' Sentograph distinguish among emotions. Hama H, et al.
Percept Mot Skills 1990 Apr;70(2):371–6
More rapid visual identification rate in search of a missing stimulus. Inamori Y, et al. Percept Mot Skills 1990 Apr; 70(2):570
Perception of figure orientation by nonambulatory children with profound mental retardation. Krenn MJ, et al.
Percept Mot Skills 1990 Jun;70(3 Pt 1):867–70
Home–cage open–field ambulation after maze learning in mice. Kvist B, et al. Percept Mot Skills 1990 Apr; 70(2):355–60
Time perception and the Stroop task. Marshall MJ, et al.
Percept Mot Skills 1989 Dec;69(3 Pt 2):1159–62
An adaptive (tracking) procedure for measuring visual search. Matin E, et al. Percept Mot Skills 1990 Feb; 70(1):243–55
Order of item difficulty on picture arrangement: data from a normal elderly sample. Ryan JJ, et al.
Percept Mot Skills 1989 Dec;69(3 Pt 2):1217–8
Eye movements and reversal rates of ambiguous patterns. Scotto MA, et al. Percept Mot Skills 1990 Jun;70(3 Pt 2):1059–73
Facilitative effects of labeling on preschool children's copying of simple geometric forms. Stiles J, et al.
Percept Mot Skills 1990 Apr;70(2):663–72
Simultaneous manipulation of propositional and analog codes in picture memory. Talasli U. Percept Mot Skills 1990 Apr; 70(2):403–14
Context superiority in a detection task with line–element stimuli: a low–level effect. Gorea A, et al. Perception 1990; 19(1):5–16
An orientation anisotropy in induced brightness. Moulden B, et al. Perception 1989;18(6):703–13
The standard deviation of luminance as a metric for contrast in random–dot images. Moulden B, et al. Perception 1990; 19(1):79–101
Illusory–figure lightness: evidence for a two–component theory. Parks TE. Perception 1989;18(6):783–8
Odor intensity of mixed and unmixed stimuli under environmentally realistic conditions. Schiet FT, et al.
Perception 1990;19(1):123–32
Ethanol interoceptive cue and sleep–time duration in HAS and LAS selectively bred rats. Krimmer EC.
Pharmacol Biochem Behav 1990 Jun;36(2):255–60
A computer–aided procedure for measuring Morris maze performance. Deneberg VH, et al. Physiol Behav 1990 May; 47(5):1027–9
A computer–aided procedure for measuring discrimination learning. Denenberg VH, et al. Physiol Behav 1990 May; 47(5):1031–4
Age–related changes in spontaneous behavior and learning in NMRI mice from maturity to middle age. Lamberty Y, et al. Physiol Behav 1990 Jun;47(6):1137–44
A method for establishing a five odorant identification confusion matrix task in rats. Youngentob SL, et al.
Physiol Behav 1990 Jun;47(6):1053–9
Adult age differences in the perception and learning of artistic style categories. Hess TM, et al. Psychol Aging 1987 Sep; 2(3):243–53
Dual–task performance as a function of adult age and task complexity. Lorsbach TC, et al. Psychol Aging 1988 Jun; 3(2):210–2
Sustained–attention capacity in young and older adults. Parasuraman R, et al. Psychol Aging 1989 Sep;4(3):339–45
Old–age deficits in the sense of smell as gauged by thresholds, magnitude matching, and odor identification. Stevens JC, et al. Psychol Aging 1987 Mar;2(1):36–42
Effect of taxonomic examples on free–classification among subjects with two levels of formal schooling. Arevalo JS, et al. Psychol Rep 1990 Apr;66(2):603–13
Four–choice win–stay water escape acquisition by rats. Means LW, et al. Psychol Rep 1990 Feb;66(1):67–70
The minimum principle and visual pattern completion. Boselie F, et al. Psychol Res 1989;51(3):93–101
Response effects in the perception of conjunctions of colour and form. Chmiel N. Psychol Res 1989;51(3):117–22
Temporal–order judgments and reaction time for stimuli of different modalities. Jaśkowski P, et al. Psychol Res 1990; 52(1):35–8
Hemispheric differences in visual search of simple line arrays. Polich J, et al. Psychol Res 1990;52(1):54–61
What one intelligence test measures: a theoretical account of the processing in the Raven Progressive Matrices Test. Carpenter PA, et al. Psychol Rev 1990 Jul;97(3):404–31
Dimensional overlap: cognitive basis for stimulus–response compatibility—a model and taxonomy. Kornblum S, et al. Psychol Rev 1990 Apr;97(2):253–70 (110 ref.)
Attention effects on form discrimination at different eccentricities. Cheal ML, et al. Q J Exp Psychol [A] 1989 Nov;41(4):719–46
Varieties of object constancy. Ellis R, et al.
Q J Exp Psychol [A] 1989 Nov;41(4):775–96
Psychometric functions for the discrimination of differences in intensity of Gaussian noise. Irwin RJ.
Q J Exp Psychol [A] 1989 Nov;41(4):655–74
Modelling visual detection: luminance response non–linearity and internal noise. Kingdom F, et al.
Q J Exp Psychol [A] 1989 Nov;41(4):675–96
Hemisphere–specific resource demands of task expectancies. Lamberts K, et al. Q J Exp Psychol [A] 1990 Feb; 42(1):87–104
The effects of surface detail on object categorization and naming. Price CJ, et al. Q J Exp Psychol [A] 1989 Nov; 41(4):797–827
An analysis of emergent simple discrimination in children. Boelens H, et al. Q J Exp Psychol [B] 1990 May; 42(2):135–52
Spontaneous and learned turning behaviour in food– or water–restricted hooded rats. Foreman N, et al.
Q J Exp Psychol [B] 1990 May;42(2):153–73
Spatial memory in rats: a cross validation study. van Luijtelaar EL, et al. Q J Exp Psychol [B] 1989 Aug; 41(3):287–306
Selective transfer of responding in conditional discriminations. Wilson PN, et al. Q J Exp Psychol [B] 1990 Feb;42(1):41–58
A role for stimulus generalization in conditional discrimination learning. Wilson PN, et al.
Q J Exp Psychol [B] 1989 Aug;41(3):243–73
Establishing conditional discriminations: concurrent versus isolation–intermix instruction. Doyle PM, et al.
Res Dev Disabil 1989;10(4):349–62
Time–delay discrimination training: replication with different stimuli and different populations. Smeets PM, et al.
Res Dev Disabil 1990;11(2):217–40
Teaching money skills through stimulus class formation, exclusion, and component matching methods: three case studies. Stoddard LT, et al. Res Dev Disabil 1989; 10(4):413–39
Concept formation in non–verbal categorization tasks in brain–damaged patients with and without aphasia. Hjelmquist EK. Scand J Psychol 1989;30(4):243–54
[Investigation of cortical slow potentials during the delayed discrimination learning in monkeys] Li BM, et al.
Sheng Li Hsueh Pao 1990 Feb;42(1):9–17 (Eng. Abstr.) (Chl)
[Observations on neuronal activity in frontal cortex and EMGs in monkeys during performing noxious and innocuous heat discrimination GO/NO–GO task] Liu JL, et al. Sheng Li Hsueh Pao 1990 Apr;42(2):121–8 (Eng. Abstr.) (Chl)
[Functional plasticity of frontal neurons in rhesus monkeys during performing visual discrimination go/no–go task] Liu JL, et al. Sheng Li Hsueh Pao 1989 Oct;41(5):504–11 (Eng. Abstr.) (Chl)
[Comparison between responses of monkey prefrontal neurons to signal and to indifferent stimuli] Mei ZT, et al. Sheng Li Hsueh Pao 1990 Feb;42(1):1–8 (Eng. Abstr.) (Chl)

DRUG EFFECTS

Effects of prenatal ethanol and long–chain n–3 fatty acid supplementation on development in mice. 1. Body and brain growth, sensorimotor development, and water T–maze reversal learning. Wainwright PE, et al.
Alcohol Clin Exp Res 1990 Jun;14(3):405–12
Rats exposed prenatally to alcohol exhibit impairment in spatial navigation test. Gianoulakis C. Behav Brain Res 1990 Jan 22;36(3):217–28
Post–trial NMDA receptor allosteric blockade differentially

influences habituation of behavioral responses to novelty in the rat. Gironi Carnevale UA, et al. **Behav Brain Res** 1990 Jul 9;39(2):187–95

Long-term effects of developmental halothane exposure on radial arm maze performance in rats. Levin ED, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):147–54

Protective effect of the calcium antagonist nimodipine on discrimination learning deficits and impaired retention behavior caused by prenatal nitrite exposure in rats. Nyakas C, et al. **Behav Brain Res** 1990 Apr 16;38(1):69–76

Effects of dopamine depletion from the caudate–putamen and nucleus accumbens septi on the acquisition and performance of a conditional discrimination task. Robbins TW, et al. **Behav Brain Res** 1990 May 28;38(3):243–61

Dopamine receptors and sensorimotor behavior in MPTP-treated mice. Weihmuller FB, et al. **Behav Brain Res** 1990 May 28;38(3):263–73

Effects of ketamine on tunnel maze and water maze performance in the rat. Alessandri B, et al. **Behav Neural Biol** 1989 Sep;52(2):194–212

The effects of p-chloroamphetamine, a depletor of brain serotonin, on the performance of rats in two types of positively reinforced complex spatial discrimination tasks. Altman HJ, et al. **Behav Neural Biol** 1989 Sep;52(2):131–44

Intraseptal administration of muscimol produces dose-dependent memory impairments in the rat. Chrobak JJ, et al. **Behav Neural Biol** 1989 Nov;52(3):357–69

Diazepam-induced impairment of a go–no go successive discrimination. Cole SO. **Behav Neural Biol** 1990 May; 53(3):371–7

Nimodipine alters acquisition of a visual discrimination task in chicks. Deyo R, et al. **Behav Neural Biol** 1990 Mar; 53(2):149–52

Microinjections of leupeptin in the frontal cortex or dorsal hippocampus block spatial learning in the rat. Deyo RA, et al. **Behav Neural Biol** 1989 Sep;52(2):213–21

Testosterone fails to reverse spatial memory decline in aged rats and impairs retention in young and middle-aged animals. Goudsmit E, et al. **Behav Neural Biol** 1990 Jan; 53(1):6–20

Chronic nicotine and withdrawal effects on radial-arm maze performance in rats. Levin ED, et al. **Behav Neural Biol** 1990 Mar;53(2):269–76

Characterization of the cognitive effects of combined muscarinic and nicotinic blockade. Levin ED, et al. **Behav Neural Biol** 1990 Jan;53(1):103–12

ACTH 4–9 analog can retard spatial alternation learning in brain damaged and normal rats. McDaniel WF, et al. **Behav Neural Biol** 1989 Sep;52(2):271–8

The residual spatial abilities of hippocampally lesioned rats can be enhanced by peripheral sympathetic-adrenal interventions. Maier DL, et al. **Behav Neural Biol** 1990 Jan;53(1):123–32

Nucleus basalis magnocellularis and memory: differential effects of two neurotoxins. Markowska AL, et al. **Behav Neural Biol** 1990 Jul;54(1):13–26

Diazepam-stress interactions in the rat: effects on autoanalgesia and a plus-maze model of anxiety. Taukulis HK, et al. **Behav Neural Biol** 1990 Mar;53(2):205–16

The cholinergic agent physostigmine enhances short-term-memory-based performance in the developing rat. Castro CA, et al. **Behav Neurosci** 1990 Apr;104(2):390–3

Ethanol and spatial localization. Devenport L, et al. **Behav Neurosci** 1989 Dec;103(6):1259–66

Picrotoxin enhances latent extinction of conditioned fear. McGaugh JL, et al. **Behav Neurosci** 1990 Apr;104(2):264–7

Organizational changes in cholinergic activity and enhanced visuospatial memory as a function of choline administered prenatally or postnatally or both. Meck WH, et al. **Behav Neurosci** 1989 Dec;103(6):1234–41

Differential effect of ketamine on the reference and working memory versions of the Morris water maze task. Wesierska M, et al. **Behav Neurosci** 1990 Feb;104(1):74–83

Microinjection of anti-vasopressin serum into hippocampus in mice: effects on appetitively reinforced task after intraventricular administration of Arg-vasopressin. Alescio-Lautier B, et al. **Brain Res** 1989 Oct 23; 500(1–2):287–94

Enhanced spatial discrimination learning in rats following 5,7-DHT-induced serotonergic deafferentation of the hippocampus. Altman HJ, et al. **Brain Res** 1990 Jun 4; 518(1–2):61–6

Blockade of dopamine D1 receptors by SCH 23390 antagonizes discriminative stimulus effects of pentazocine. Ukai M, et al. **Brain Res** 1989 Sep 4;496(1–2):377–9

Ethanol–diazepam interactions on delayed match-to-sample performance in baboons. Wayner MJ, et al. **Brain Res Bull** 1989 Oct–Nov;23(4–5):333–8

The relationship of structural ischemic brain damage to neurobehavioural deficit: the effect of postischemic MK-801. Rod MR, et al. **Can J Psychol** 1990 Jun; 44(2):196–209

Effects of morphine and naloxone on play-rewarded spatial discrimination in juvenile rats. Normansell L, et al. **Dev Psychobiol** 1990 Jan;23(1):75–83

Effect of piracetam, a nootropic agent, on discrimination learning deficits induced by parental undernutrition and environmental impoverishment in young rats. Jaiswal AK, et al. **Indian J Exp Biol** 1989 Mar;27(3):269–73

Discriminative properties of morphine that modulate associations between tastes and lithium chloride. Martin GM, et al. **J Exp Psychol [Anim Behav]** 1990 Jan; 16(1):56–68

Quantal vs. graded generalization in drug discrimination: measuring a graded response. Mathis DA, et al. **J Neurosci Methods** 1990 Jan;31(1):23–33 (51 ref.)

The self-administration of MK-801 can depend upon drug-reinforcement history, and its discriminative stimulus properties are phencyclidine-like in rhesus monkeys. Beardsley PM, et al. **J Pharmacol Exp Ther** 1990 Mar; 252(3):953–9

Effects of cholecystokinin, d-amphetamine and fenfluramine in rats trained to discriminate 3 from 22 hr of food deprivation. Corwin RL, et al. **J Pharmacol Exp Ther** 1990 May;253(2):720–8

Apparent affinity of opioid antagonists in morphine-treated rhesus monkeys discriminating between saline and naltrexone. France CP, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):600–4

Pharmacological characterization of the discriminative stimulus effects of cocaine in rhesus monkeys. Kleven MS, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):312–7

Discriminative stimulus properties of U50,488 and morphine: effects of training dose on stimulus substitution patterns produced by mu and kappa opioid agonists. Picker MJ, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):13–22

Effects of competitive and noncompetitive N-methyl-D-aspartate (NMDA) antagonists in rats trained to discriminate NMDA from saline. Willetts J, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):627–33

Behavioral analysis of zopiclone on the basis of their discriminative stimulus properties in the rat. Yamamoto T, et al. **Jpn J Pharmacol** 1989 Nov;51(3):337–45

Comparison of anorectic drugs in rats trained to discriminate between satiation and deprivation. Schechter MD. **Life Sci** 1990;47(1):17–24

Effects of captopril on locomotor activity, passive avoidance behaviour and spatial memory tasks in the trimethyltin-treated rat. Earley B, et al. **Neuropsychobiology** 1989;22(1):49–56

Discriminative stimulus properties of toluene in the rat. Knisely JS, et al. **Neurotoxicol Teratol** 1990 Mar–Apr; 12(2):129–33

Effects of D1 and D2 dopamine antagonists on heroin-trained drug discrimination. Corrigall WA, et al. **NIDA Res Monogr** 1989;95:499

Withdrawal from benzodiazepine dependence as a discriminative stimulus. Emmett-Oglesby MW, et al. **NIDA Res Monogr** 1989;95:284

Naltrexone discrimination in morphine-treated monkeys. France CP, et al. **NIDA Res Monogr** 1989;95:298–9

Human psychopharmacology of intranasal cocaine. Higgins ST, et al. **NIDA Res Monogr** 1989;95:357–8

Microdialysis studies of psychostimulants. Hoebel BG, et al. **NIDA Res Monogr** 1989;95:343–4

Human d-amphetamine drug discrimination: testing with d-amphetamine and hydromorphone. Lamb RJ, et al. **NIDA Res Monogr** 1989;95:423–4

Kappa antagonist effects of buprenorphine in the rat drug-discrimination procedure. Negus SS, et al. **NIDA Res Monogr** 1989;95:518–9

Effects of triazolam (TZ) on matching-to-sample (MTS) performance in humans. Roache JD, et al. **NIDA Res Monogr** 1989;95:475–6

Discrimination of the benzodiazepine receptor antagonist Ro 15-1788 using the conditioned taste aversion procedure. Rowan GA, et al. **NIDA Res Monogr** 1989;95:536

Adrenocorticotropic hormone fragment ACTH/MSH(4–10 can act as a discriminative stimulus in rats. Riddle EE, et al. **Peptides** 1989 Sep–Oct;10(5):1101–3

Discriminative stimulus properties of phenytoin in the pigeon: determination via a cumulative dosing procedure. Clark R, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):537–41

Effect of BMY 21502 on acquisition of shape discrimination and memory retention in monkey. Fitten LJ, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):553–6

Discriminative stimulus properties of CL218872 and chlordiazepoxide in the rat. Gardner CR. **Pharmacol Biochem Behav** 1989 Dec;34(4):711–5

Behavioral interaction between cocaine and caffeine: a drug discrimination analysis in rats. Harland RD, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1017–23

Buspirone blocks the discriminative stimulus effects of apomorphine in monkeys. Kamien JB, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):117–20

A comparison of interoceptive and exteroceptive discrimination in the pigeon. McMillan DE, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):641–7

Effects of intraventricularly applied gangliosides and N-acetylneuraminic acid on acquisition and retention performance of a brightness discrimination task in rats. Popov N, et al. **Pharmacol Biochem Behav** 1989 Oct; 34(2):209–12

Temporal differences in behavioral effect of fenfluramine and norfenfluramine. Schechter MD. **Pharmacol Biochem Behav** 1990 Mar;35(3):527–31

Matching to sample, blood pressure and hormonal effects of chronic enalapril in baboons. Turkkan JS, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):685–90

Chronic administration of phosphatidylserine during ontogeny enhances subject-environment interactions and radial maze performance in C57BL/6 mice. Ammassari-Teule M, et al. **Physiol Behav** 1990 Apr; 47(4):755–60

The effects of prenatal alcohol exposure on radial arm maze performance in adult rats. Reyes E, et al. **Physiol Behav** 1989 Jul;46(1):45–8

Neuroleptic effects on interhemispheric and intrahemispheric performance of tactile discrimination tasks by schizophrenic patients. Tomer R. **Psychiatry Res** 1990 Jun; 32(3):289–96

A taste aversion model of drug discrimination learning: training drug and condition influence rate of learning, sensitivity and drug specificity. Jaeger TV, et al. **Psychopharmacology (Berl)** 1990;100(2):145–50

Repeated exposure to diisopropylfluorophosphate (DFP) produces increased sensitivity to cholinergic antagonists in discrimination retention and reversal. Raffaele K, et al. **Psychopharmacology (Berl)** 1990;100(2):267–74

Sensitive periods for lead-induced behavioral impairment (nonspatial discrimination reversal) in monkeys. Rice DC, et al. **Toxicol Appl Pharmacol** 1990 Jan;102(1):101–9

PHYSIOLOGY

Brightness discrimination and reward strategy in the rabbit. van Hof MW, et al. **Acta Neurobiol Exp (Warsz)** 1989; 49(6):387–90

6-Hydroxydopamine lesion of the rat prefrontal cortex increases locomotor activity, impairs acquisition of delayed alternation tasks, but does not affect uninterrupted tasks in the radial maze. Bubser M, et al. **Behav Brain Res** 1990 Mar 5;37(2):157–68

The effects of anteromedial cortex lesions on pattern discrimination learning in rat. Christie D, et al. **Behav Brain Res** 1989 Nov 1;35(2):135–46

Corpus callosum section disrupts motor behaviour strategies during visual discrimination learning in rat. Christie D, et al. **Behav Brain Res** 1990 Mar 5;37(2):189–94

Reinforced alternation performance is impaired by muscarinic but not by nicotinic receptor blockade in rats. Clarke PB, et al. **Behav Brain Res** 1990 Jan 22;36(3):203–7

Key pecking operant conditioning in detelencephalated pigeons (Columba livia). De Souza CM, et al. **Behav Brain Res** 1990 May 28;38(3):223–31

Activation of the noradrenergic system facilitates an attentional shift in the rat. Devauges V, et al. **Behav Brain Res** 1990 Jun 18;39(1):19–28

Discriminative long-term retention of rapidly induced multiunit changes in the hippocampus, medial geniculate and auditory cortex. Edeline JM, et al. **Behav Brain Res** 1990 Jul 9;39(2):145–55

In situ binding of bouton zinc reversibly disrupts performance on a spatial memory task. Frederickson RE, et al. **Behav Brain Res** 1990 Apr 16;38(1):25–33

Reversible cold lesions of the parahippocampal gyrus in monkeys result in deficits on the delayed match-to-sample and other visual tasks. George PJ, et al. **Behav Brain Res** 1989 Sep 1;34(3):163–78

Medial versus lateral hyperstriatal lesions in pigeons: effects on autoshaping, non-matching-to-sample and spatial discrimination learning at short and long intertrial intervals. Macphail EM, et al. **Behav Brain Res** 1989 Oct 1; 35(1):63–73

Task-dependent memory loss and recovery following unilateral nucleus basalis lesion: behavioral and neurochemical correlation. Nakamura S, et al. **Behav Brain Res** 1990 Jul 9;39(2):113–22

The role of the amygdala and the hippocampus in working memory for spatial and non-spatial information. Peinado-Manzano MA. **Behav Brain Res** 1990 May 7; 38(2):117–34

Regionally selective roles of the rat's striatum in modality-specific discrimination learning and forelimb reaching. Pisa M, et al. **Behav Brain Res** 1990 Mar 26; 37(3):281–92

Damage to ceruleo-cortical noradrenergic projections impairs locally cued but enhances spatially cued water maze acquisition. Selden NR, et al. **Behav Brain Res** 1990 Jun 18;39(1):29–51

Section of the descending columns of the fornix produces delay- and interference-dependent working memory deficits. Tonkiss J, et al. **Behav Brain Res** 1990 Jan 1; 36(1–2):113–26

Y-chromosomal effects on discrimination learning and hippocampal asymmetry in mice. van Abeelen JH, et al. **Behav Genet** 1989 Jul;19(4):543–9

Learning and memory impairment in rats fed a high saturated fat diet. Greenwood CE, et al. **Behav Neural Biol** 1990 Jan;53(1):74–87

Memory for frequency in rats: role of the hippocampus and medial prefrontal cortex. Kesner RP. **Behav Neural Biol** 1990 May;53(3):402–10

Lesions of the caudate nucleus selectively impair "reference memory" acquisition in the radial maze. Packard MG, et al. **Behav Neural Biol** 1990 Jan;53(1):39–50

Hyperthermia impairs retrieval of an overtrained spatial task in the Morris water maze. Rauch TM, et al. **Behav Neural Biol** 1989 Nov;52(3):321–30

Response biases do not underlie the radial maze deficit in rats with mediodorsal thalamus lesions. Stokes KA, et al. **Behav Neural Biol** 1990 May;53(3):334–45

Damage to the hippocampal formation in rats selectively impairs the ability to learn cue relationships. Sutherland RJ, et al. **Behav Neural Biol** 1989 Nov;52(3):331–56

The durations of hippocampal and cortical cholinergic activation induced by spatial discrimination testing of mice

in an eight-arm radial maze decrease as a function of acquisition. Toumane A, et al. **Behav Neural Biol** 1989 Sep; 52(2):279–84

Delayed response, preoperative overtraining, and prefrontal lesions in the rat. Wilcott RC, et al. **Behav Neural Biol** 1990 May;53(3):393–401

Effects of amygdaloid and amygdaloid–hippocampal lesions on object recognition and spatial working memory in rats. Aggleton JP, et al. **Behav Neurosci** 1989 Oct;103(5):962–74

Allocentric spatial and tactile memory impairments in rats with dorsal caudate lesions are affected by preoperative behavioral training. Colombo PJ, et al. **Behav Neurosci** 1989 Dec;103(6):1242–50

Selective sparing after lesions of visual cortex in newborn kittens. Cornwell P, et al. **Behav Neurosci** 1989 Dec; 103(6):1176–90

Visual discrimination by cats given lesions of visual cortex in one or two stages in infancy or in one stage in adulthood. Cornwell P, et al. **Behav Neurosci** 1989 Dec;103(6):1191–9

Further studies of hippocampal representation during odor discrimination learning. Eichenbaum H, et al. **Behav Neurosci** 1989 Dec;103(6):1207–16

Double dissociation of egocentric and allocentric space following medial prefrontal and parietal cortex lesions in the rat. Kesner RP, et al. **Behav Neurosci** 1989 Oct; 103(5):956–61

Hippocampal seizures disrupt working memory performance but not reference memory acquisition. Knowlton BJ, et al. **Behav Neurosci** 1989 Oct;103(5):1144–7

Patterned (single) alternation in infant rats after combined or separate lesions of hippocampus and amygdala. Lobaugh NJ, et al. **Behav Neurosci** 1989 Dec;103(6):1159–67

Hippocampal cells have behavioral correlates during the performance of an auditory working memory task in the rat. Sakurai Y. **Behav Neurosci** 1990 Apr;104(2):253–63

2-[3H]deoxyglucose uptake patterns in rats exploring a six-arm radial tunnel maze: differences between experienced and nonexperienced rats. Sarter M, et al. **Behav Neurosci** 1989 Dec;103(6):1217–25

Complex maze performance in rats: effects of noradrenergic depletion and cholinergic blockade. Spangler EL, et al. **Behav Neurosci** 1990 Jun;104(3):410–7

Organizational effects of early gonadal secretions on sexual differentiation in spatial memory. Williams CL, et al. **Behav Neurosci** 1990 Feb;104(1):84–97

Disorders of decision in affective disease: an effect of beta-adrenergic dysfunction? Corwin J, et al. **Biol Psychiatry** 1990 Apr 15;27(8):813–33

Independent components of the neural population response for discrimination of quality and intensity of chemical stimuli. Girardot MN, et al. **Brain Behav Evol** 1990; 35(3):129–45

Configuration-sensitive visual responses in the superior colliculus of the house mouse (Mus musculus domesticus). Manteuffel G, et al. **Brain Behav Evol** 1990;35(3):176–84

Event-related potentials during word-reading and figure-matching in left-handed and right-handed males and females. Van Strien JW, et al. **Brain Lang** 1989 Nov; 37(4):525–47

Effects of cooling parietal cortex on prefrontal units in delay tasks. Quintana J, et al. **Brain Res** 1989 Nov 27; 503(1):100–10

Odor-induced metabolic activity in the olfactory bulb of rats trained to detect propionic acid vapor. Slotnick BM, et al. **Brain Res** 1989 Oct 23;500(1–2):161–8

Circling, hemispheric asymmetry, and left-right discrimination. Willar CD, et al. **Brain Res** 1989 Oct 23; 500(1–2):405–7

Neuronal responses related to reinforcement in the primate basal forebrain. Wilson FA, et al. **Brain Res** 1990 Feb 19; 509(2):213–31

Gender differences in visual habit formation in 3-month-old rhesus monkeys. Bachevalier J, et al. **Dev Psychobiol** 1989 Sep;22(6):585–99

Impaired reference memory and reduced glutamergic activity in rats with temporo-entorhinal connections disrupted. Myhrer T, et al. **Exp Brain Res** 1989;77(3):499–506

Picture recognition vs. picture discrimination learning in monkeys with medial temporal removals. Overman WH, et al. **Exp Brain Res** 1990;79(1):18–24

The acoustic basis for target discrimination by FM echolocating bats. Simmons JA, et al. **J Acoust Soc Am** 1989 Oct;86(4):1333–50

Learning and discrimination of coloured papers in the walking blowfly, Lucilia cuprina. Fukushi T. **J Comp Physiol [A]** 1989 Nov;166(1):57–64

Component mechanisms underlying the processing of hierarchically organized patterns: inferences from patients with unilateral cortical lesions. Lamb MR, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 May;16(3):471–83

Failure of induced asymmetries to improve left-right response differentiation in the rat. Noonan M, et al. **J Gen Psychol** 1990 Apr;117(2):197–202

The cone field: a spatial discrimination task for the automatic and simultaneous assessment of working and reference memory in rats. van der Staay FJ, et al. **J Neurosci Methods** 1990 Jan;31(1):13–22

Unilateral periarcuate and posterior parietal lesions impair conditional position discrimination learning in the monkey. Crowne DP, et al. **Neuropsychologia** 1989;27(9):1119–27

Two transcranial Doppler studies on blood flow velocity in both middle cerebral arteries during rest and the performance of cognitive tasks. Droste DW, et al. **Neuropsychologia** 1989;27(10):1221–30

Cerebral correlates of imagining colours, faces and a map—I. SPECT of regional cerebral blood flow. Goldenberg G, et al. **Neuropsychologia** 1989;27(11–12):1315–28

Facial neglect. Young AW, et al. **Neuropsychologia** 1990; 28(5):391–415

The effects of excitotoxic lesions of the basal forebrain on the acquisition, retention and serial reversal of visual discriminations in marmosets. Roberts AC, et al. **Neuroscience** 1990;34(2):311–29

Comparison of behavioral effects of nucleus basalis magnocellularis lesions and somatosensory cortex ablation in the rat. Wozniak DF, et al. **Neuroscience** 1989; 32(3):685–700

Mediation in the nucleus accumbens of the discriminative stimulus produced by cocaine. Wood DM, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):453–7

Effect of bilateral septal lesions on discrimination avoidance conditioning in rats. Gomita Y, et al. **Physiol Behav** 1989 Jun;45(6):1227–33

Effects of dorsal and medial cortex lesions on reversals in turtles. Grisham W, et al. **Physiol Behav** 1990 Jan;47(1):43–9

Adult susceptibility induced by preweaning shifts of Zeitgeber in rats (II). Knaepen E, et al. **Physiol Behav** 1989 Sep;46(3):443–7

Telencephalic function implicated in food-reinforced color discrimination learning in the goldfish. Ohnishi K. **Physiol Behav** 1989 Oct;46(4):707–12

Sex differences in aversive and appetitive conditioning in two strains of rats. Saavedra MA, et al. **Physiol Behav** 1990 Jan;47(1):107–12

Effects of early life undernutrition in artificially-reared rats: 3. Further studies of growth and behaviour. Smart JL, et al. **Physiol Behav** 1989 Jun;45(6):1153–60

[Hemispheric asymmetry during teaching of discrimination of visual stimuli of two classes] Udalova GP, et al. **Fiziol Cheloveka** 1989 May-Jun;15(3):104–12 **(Rus)**

[The learning capacity of crows and pigeons: the formation of a system of color stimulus discrimination with an increasing number of reinforcements] Zorina ZA, et al. **Zh Vyssh Nerv Deiat** 1989 Jul-Aug;39(4):660–6 **(Rus)**

DISEASE

Intraocular lesions in patients with systemic disease: findings on MR imaging. Tonami H, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):385–9

Nutritional and clinical aspects. Coursin DB. **Ann N Y Acad Sci** 1990;585:468–72

'Minor' illness symptoms. The magnitude of their burden and of our ignorance [editorial; comment] Komaroff AL. **Arch Intern Med** 1990 Aug;150(8):1586–7 Comment on: Arch Intern Med 1990 Aug;150(8):1685–9.

Anaesthesia and medical disorders: selected references. Thornton JA. **Br J Anaesth** 1974 Aug;46(8):623–6

Respiratory infections and acute lung injury in systemic illness. Skerrett SJ, et al. **Clin Chest Med** 1989 Dec; 10(4):469–502 (302 ref.)

Disease-induced variations in plasma protein levels. Implications for drug dosage regimens (Part I). Zini R, et al. **Clin Pharmacokinet** 1990 Aug;19(2):147–59 (0 ref.)

Dietary sugars and human disease [editorial] Rugg-Gunn AJ. **Community Dent Health** 1990 Mar;7(1):1–2

On the concept of health and disease. Description and explanation of the health situation. Castellanos PL. **Epidemiol Bull** 1990;10(4):1–8

Receptor-channel alterations in disease: many clues, few causes. Snyder SH, et al. **FASEB J** 1990 Jul;4(10):2707–8 (13 ref.)

Medical conditions of importance in dental practice. Drinnan AJ. **Int Dent J** 1990 Aug;40(4):206–10

Syndromology: an updated conceptual overview. VII. Aspects of teratogenesis. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):26–32 (0 ref.)

Syndromology: an updated conceptual overview. V. Aspects of aneuploidy. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1989 Dec;18(6):333–8 (0 ref.)

Syndromology: an updated conceptual overview. I. Syndrome concepts, designations, and population characteristics. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1989 Aug;18(4):216–22

Syndromology: an updated conceptual overview. X. References. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1990 Apr;19(2):89–96

Syndromology: an updated conceptual overview. VIII. Deformations and disruptions. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):33–7 (0 ref.)

Syndromology: an updated conceptual overview. VI. Molecular and biochemical aspects of dysmorphology. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1989 Dec; 18(6):339–46 (0 ref.)

Syndromology: an updated conceptual overview. III. Syndrome delineation. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1989 Oct;18(5):281–5

Syndromology: an updated conceptual overview. IX. Facial dysmorphology. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1990 Apr;19(2):81–8 (0 ref.)

Syndromology: an updated conceptual overview. II. Syndrome classifications. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1989 Aug;18(4):223–8

Syndromology: an updated conceptual overview. IV. Perspectives on malformation syndromes. Cohen MM Jr. **Int J Oral Maxillofac Surg** 1989 Oct;18(5):286–90

Alterations in the establishment and maintenance of epithelial cell polarity as a basis for disease processes. Molitoris BA, et al. **J Clin Invest** 1990 Jan;85(1):3–9 (71 ref.)

Anxiety and mood disorders in medically ill patients. Wise MG, et al. **J Clin Psychiatry** 1990 Jan;51 Suppl:27–32 (34 ref.)

Concepts of health and disease. Kovács J. **J Med Philos** 1989 Jun;14(3):261–7

A reassessment of the antiphospholipid syndrome. Harris EN. **J Rheumatol** 1990 Jun;17(6):733–5

Disease in history: frames and framers. Rosenberg CE. **Milbank Q** 1989;67 Suppl 1:1–15

Membrane transport and disease. Pasternak CA. **Mol Cell Biochem** 1989 Nov 23–Dec 19;91(1–2):3–11 (72 ref.)

The impact of molecular biology on understanding of the human disease process. Weinberg RA. **Mt Sinai J Med** 1989 Oct;56(5):392–4

The psychoneuroimmune network: expanding our understanding of immunity and disease. Booth RJ. **N Z Med J** 1990 Jul 11;103(893):314–6 (26 ref.)

An N of 1: syndrome letters in the New England Journal of Medicine. Hunter KM. **Perspect Biol Med** 1990 Winter; 33(2):237–51

Platelet-derived growth factor and its role in health and disease. Ross R, et al. **Philos Trans R Soc Lond [Biol]** 1990 Mar 12;327(1239):155–69 (132 ref.)

Illness, shame, and blame. Davis JM. **Postgrad Med** 1990 May 1;87(6):14–5

Patients complaining about amalgam-related symptoms suffer more often from illnesses and chronic craniofacial pain than their controls. Meurman JH, et al. **Scand J Dent Res** 1990 Apr;98(2):167–72

Incidence of sickness certification. Proposal for use as a health status indicator. Tellnes G, et al. **Scand J Prim Health Care** 1989 Jun;7(2):111–7

[Apropos the article by V. N. Galankin The interrelationship of adaptation and disease in phylo- and ontogeny] Esipova IK. **Arkh Patol** 1989;51(8):77–9 **(Rus)**

[A discussion of the problem of "predisease"] Mizin VT. **Patol Fiziol Eksp Ter** 1990 Mar-Apr;(2):48–50 **(Rus)**

[Circadian rhythm of the functional activity of the normal sympathetic-adrenal system and in pathology] Komarov FI, et al. **Ter Arkh** 1989;61(9):101–5 (24 ref.) **(Rus)**

[Significance of philosophical aspects of the normal and pathologic state in medical practice] Petlenko VP. **Vestn Khir** 1989 Dec;144(12):3–6 (Eng. Abstr.) **(Rus)**

[Development of the philosophical aspects of normality and pathology in medicine] Petlenko VP. **Vestn Khir** 1989 Nov; 143(11):3–7 **(Rus)**

[The significance of disease] Goić A. **Rev Med Chil** 1988 Sep;116(9):938–43 (Eng. Abstr.) **(Spa)**

[Perfect health and total absence of disease is not the same thing] Hellström O. **Lakartidningen** 1990 Jul 25; 87(30–31):2417 **(Swe)**

CLASSIFICATION

Misclassification in epidemiologic studies of adverse drug reactions using large managerial data bases. Graham DJ, et al. **Am J Prev Med** 1988;4(2 Suppl):15–24

Read clinical classification [letter] **BMJ** 1990 Jun 2; 300(6737):1467

The Read clinical classification [editorial] Chisholm J. **BMJ** 1990 Apr 28;300(6732):1092

Read clinical classification [letter] Read J. **BMJ** 1990 Jul 7;301(6742):45

Using administrative diagnostic data to assess the quality of hospital care. Pitfalls and potential of ICD-9-CM. Iezzoni LI. **Int J Technol Assess Health Care** 1990;6(2):272–81 (45 ref.)

Age-related diseases and normal aging: the nature of the relationship. Forbes WF, et al. **J Clin Epidemiol** 1990; 43(2):191–3

Hospital discharge diagnoses: how accurate are they and their international classification of diseases (ICD) codes? Smith MW. **N Z Med J** 1989 Sep 27;102(876):507–8

Use of the WHO classification in assessing the prevalence of diseases, impairments and handicaps in Punjab Province, Pakistan. Finnstam J, et al. **World Health Stat Q** 1989; 42(3):157–60

Using the International Classification of Impairments, Disabilities, and Handicaps in surveys: the case of Spain. Gomez Rodriguez P. **World Health Stat Q** 1989;42(3):161–6

Measuring the consequences of illness. Wood PH. **World Health Stat Q** 1989;42(3):115–21

[A computerized Chinese classification of diseases and coding system] Li ES. **Chung Hua I Hsueh Tsa Chih** 1989 Nov; 69(11):607–9, 42 (Eng. Abstr.) **(Chi)**

[Consequences of disease and their measurement: introduction] Thuriaux MC. **World Health Stat Q** 1989; 42(3):110–4 (Eng. Abstr.) **(Fre)**

[Organic versus non-organic diseases. A distinction necessary for rational practice] Bratfos O. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):865–8 (Eng. Abstr.) **(Nor)**

[Coding of diagnoses according to ICD-9] Glattre E. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1250–3 (Eng. Abstr.) **(Nor)**

[Use of ICD-9 in Norwegian hospitals. A questionnaire] Wetteland SS, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10; 110(10):1247–50 (Eng. Abstr.) **(Nor)**

[Decision on a new international classification of diseases] Smedby B. **Lakartidningen** 1990 Apr 18;87(16):1379–80 (0 ref.) (Swe)

ETHNOLOGY

Ghost illness in a north Indian village. Freed RS, et al. **Soc Sci Med** 1990;30(5):617–23

ETIOLOGY

Psychiatric patients' belief in general health factors and sin as causes of illness. Sheehan W, et al. **Am J Psychiatry** 1990 Jan;147(1):112–3

A study on diet, nutrition and disease in the People's Republic of China. Part I. Campbell TC. **Bol Asoc Med P R** 1990 Mar;82(3):132–4

Life events, vulnerability and illness: a selected review. Lydeard S, et al. **Fam Pract** 1989 Dec;6(4):307–15 (96 ref.)

Is molecular epidemiology a germ theory for the end of the twentieth century? Loomis D, et al. **Int J Epidemiol** 1990 Mar;19(1):1–3

Psychobiological differences in childhood stress response. I. Patterns of illness and susceptibility. Boyce WT, et al. **J Dev Behav Pediatr** 1990 Apr;11(2):86–94 (109 ref.)

Lectures on essentials of traditional Chinese medicine. V. Etiology. **J Tradit Chin Med** 1982 Sep;2(3):243–8

Dietary calcium and chronic diseases. McCarron DA, et al. **Med Hypotheses** 1990 Apr;31(4):265–73 (82 ref.)

Parasites and the germ theory of disease. Farley J. **Milbank Q** 1989;67 Suppl 1:50–68

Henry E. Sigerist: from the social production of disease to medical management and scientific socialism. Fee E. **Milbank Q** 1989;67 Suppl 1:127–50

The pathological process. II(III). Lesional sequentiality and its multifactorial determining: structure and dynamics of factor ensembles. Eskenasy A. **Morphol Embryol (Bucur)** 1989 Apr–Jun;35(2):83–96

What's new in the role of complement in diseases? Kay PH, et al. **Pathol Res Pract** 1990 Jun;186(3):410–4 (33 ref.)

Mana, tapu, noa: Maori cultural constructs with medical and psycho-social relevance. Sachdev PS. **Psychol Med** 1989 Nov;19(4):959–69

Comparison of risk factors for ill health in a sample of homeless and nonhomeless poor. Winkleby MA. **Public Health Rep** 1990 Jul–Aug;105(4):404–10

Is it fair to blame the victim? [letter] Silk AD. **West J Med** 1990 Feb;152(2):186–7

[Etiology and prevention of disease—theory and practice] Lidegaard O, et al. **Nord Med** 1990;105(3):87–90 (Eng. Abstr.) (Dan)

[Aspects of ethology in the Hippocratic Epidemics] Brătescu G. **Sudhoffs Arch Beih** 1989;(27):222–36 (Fre)

[Etiologies and causal responsibilities in the Epidemics] Comiti VP. **Sudhoffs Arch Beih** 1989;(27):105–8 (Fre)

[Aggravating factors in the 3d constitution of Thasos] Demont P. **Sudhoffs Arch Beih** 1989;(27):198–204 (Fre)

[Scientific evidence: not always evident (letter)] Gosselin JY. **Union Med Can** 1989 Jul–Aug;118(4):147 (Fre)

[The interrelations and essence of adaptation and disease (apropos the article by V. N. Galankin The interrelationship of adaptation and disease in phylo- and ontogeny)] Perchuk BD. **Arkh Patol** 1990;52(3):69–70 (Eng. Abstr.) (Rus)

[Free-radical oxidation in the pathogenesis of the diseases associated with aging] Bobyrev VN. **Patol Fiziol Eksp Ter** 1989 Sep–Oct;(5):90–4 (88 ref.) (Rus)

[Pathogenetic aspects of neutrophil-dependent reactions] Maianskii AN. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):66–72 (70 ref.) (Rus)

[The content of the concepts "etiology" and "pathogenesis"] Petrov SS, et al. **Patol Fiziol Eksp Ter** 1989 Jul–Aug;(4):87–91 (26 ref.) (Rus)

[The contributions of ancient philosophers to the development of medicine] Chikin SIa. **Sov Med** 1990;(3):115–8 (Rus)

[Somatic disorders in drug addiction (a review of the literature)] Rudyk BI. **Vrach Delo** 1990 Jan;(1):97–101 (47 ref.) (Rus)

[Theoretical discussion on stress and its projection to pathology] Vargas Fernández L. **Acta Physiol Pharmacol Latinoam** 1988;38(3):369–75 (Eng. Abstr.) (Spa)

PSYCHOLOGY

Maladaptive denial of physical illness: a proposal for DSM-IV. Strauss DH, et al. **Am J Psychiatry** 1990 Sep;147(9):1168–72

Health psychology. The science and the field. Taylor SE. **Am Psychol** 1990 Jan;45(1):40–50 (125 ref.)

The giving up–given up complex illustrated on film. Schmale AH Jr, et al. **Arch Gen Psychiatry** 1967 Aug;17(2):135–45

Depressed or just sick? [letter; comment] Jenkins RW. **Arch Intern Med** 1990 Jun;150(6):1349–50 Comment on: Arch Intern Med 1988 Sep;148(9):1929–36.

Health, illness and willpower. Kilwein JH. **J Clin Pharm Ther** 1990 Jun;15(3):165–8

Disease-specific camping for children [comment] Seeler RA. **J Pediatr** 1990 Feb;116(2):271–2 Comment on: J Pediatr 1990 Feb;116(2):207–13.

Health and housing. Kellett J. **J Psychosom Res** 1989;33(3):255–68 (43 ref.)

Emotional and cognitive dysfunction associated with medical disorders. vonAmmon Cavanaugh S, et al. **J Psychosom Res** 1989;33(4):505–14

The symbolic role of drugs in the socialization of illness behaviour among Swedish children. Sachs L. **Pharm Weekbl [Sci]** 1990 Jun 22;12(3):107–11

Studying the person in the patient: a look back at developments. Wolf S. **Pharos** 1990 Spring;53(2):38–40

Psychosocial effects on immune function: neuroendocrine pathways. Daruna JH, et al. **Psychosomatics** 1990 Winter;31(1):4–12 (63 ref.)

Attempted suicide in psychiatric outpatients with concurrent physical illness. Kontaxakis VP, et al. **Psychother Psychosom** 1988;50(4):201–6

The concept of disease: its evolution in medical students. Stefan MD, et al. **Soc Sci Med** 1989;29(7):791–2

Psychiatric manifestations of physical illness [letter] Pasnau RO. **West J Med** 1989 Sep;151(3):329

[Social support and health] Cucić V. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):631–7 (Scc)

[Somatic diseases in suicides with a somatic appeal] Sakić S, et al. **Srp Arh Celok Lek** 1987 Aug–Sep;115(8–9):807–17 (Eng. Abstr.) (Scc)

DISEASE FREQUENCY SURVEYS see **CROSS-SECTIONAL STUDIES**

DISEASE MODELS, ANIMAL

Genetically based animal model of depression: circadian rhythm of motor activity. Golda V, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):140–2

Contribution to the water wheel test for evaluation of antidepressants in mice. Tynková J, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):284–5

Comparative studies on susceptibility of the mouse (Mus musculus) and the vole (Microtus arvalis) to Listeria monocytogenes and Erysipelothrix rhusiopathiae. Kemenes F, et al. **Acta Microbiol Hung** 1989;36(2–3):133–6

Neuropathology of gracile axonal dystrophy (GAD) mouse. An animal model of central distal axonopathy in primary sensory neurons. Mukoyama M, et al. **Acta Neuropathol (Berl)** 1989;79(3):294–9

Natural history of disease in a rabbit model for keratoconjunctivitis sicca. Gilbard JP, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:95–101

Disease-related animal models for optimising oral rehydration solution composition. Farthing MJ. **Acta Paediatr Scand Suppl** 1989;364:23–30 (24 ref.)

Effect of cytoprotective and antiulcer drugs on the healing process of subacute gastric ulcer in rat (a new model). Ezer E. **Acta Physiol Hung** 1989;73(2–3):233–40

Experimental infection of the leaf-monkeys, Presbytis cristata and Presbytis melalophos with subperiodic Brugia malayi. Mak JW, et al. **Acta Trop (Basel)** 1990 May;47(4):223–6

SIV infected rhesus macaques: an AIDS model for immunoprevention and immunotherapy. Gardner MB. **Adv Exp Med Biol** 1989;251:279–93 (26 ref.)

The obese strain of chickens: an animal model with spontaneous autoimmune thyroiditis. Wick G, et al. **Adv Immunol** 1989;47:433–500 (216 ref.)

Importance of protein content in the edema fluid for the resolution of brain edema. Gröger U, et al. **Adv Neurol** 1990;52:215–8

Brain edema in experimental superior sagittal sinus occlusion. Kannuki S, et al. **Adv Neurol** 1990;52:546

Electron microscopic study of perivascular structure associated with experimentally induced brain edema in cats. Ohata K, et al. **Adv Neurol** 1990;52:237–46

Epidural pressure and cerebral metabolism in rat internal carotid artery occlusion by silicone cylinder embolus. Takeda T, et al. **Adv Neurol** 1990;52:547

Enhancement of infusion-induced brain edema by mediator compounds. Unterberg A, et al. **Adv Neurol** 1990;52:355–8

Influence of superoxide dismutase on staphylococcal arthritis—a histological and biochemical investigation using an experimental animal model. Linhart WE, et al. **Agents Actions** 1990 Mar;29(3–4):259–65

Induction of immune deficiency syndrome in rabbits by bovine leukaemia virus. Altanerova V, et al. **AIDS** 1989 Nov;3(11):755–8

Use of simian immunodeficiency virus for evaluation of AIDS vaccine strategies. Daniel MD, et al. **AIDS** 1989;3 Suppl 1:S131–3 (17 ref.)

Balloon embolization of experimentally created aneurysms: an animal training model. Geremia GK, et al. **AJNR** 1990 Jul–Aug;11(4):659–62

Rodent models of alcoholism: a review. Keane B, et al. **Alcohol Alcohol** 1989;24(4):299–309 (33 ref.)

Atherosclerotic Yucatan microswine: an animal model with high-grade, fibrocalcific, nonfatty lesions suitable for testing catheter-based interventions. Gal D, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):291–300

Inducible monomorphic sustained ventricular tachycardia in the conscious pig. Kirby DA, et al. **Am Heart J** 1990 May;119(5):1042–9

Can atherosclerotic plaques regress? Anatomic and biochemical evidence from nonhuman animal models. Wissler RW, et al. **Am J Cardiol** 1990 Mar 20;65(12):33F–40F (39 ref.)

Characterization of a primate model of hypertension. The response of hypertensive and normotensive male vervets (Cercopithecus aethiops) to cold pressor stress, captopril administration, and acute bolus of atrial natriuretic factor. Martin S, et al. **Am J Hypertens** 1990 Jan;3(1):27–32

Segregation distortion in inheritance of progressive rod cone degeneration (prcd) in miniature poodle dogs. Acland GM, et al. **Am J Med Genet** 1990 Mar;35(3):354–9

Chediak-Higashi syndrome in the cat: prenatal diagnosis by evaluation of amniotic fluid cells. Kahraman MM, et al. **Am J Med Genet** 1990 Jul;36(3):321–7

Overo lethal white foal syndrome: equine model of aganglionic megacolon (Hirschsprung disease). McCabe L, et al. **Am J Med Genet** 1990 Jul;36(3):336–40

Type II collagen-induced inner ear disease: critical evaluation of the guinea pig model. Soliman AM. **Am J Otol** 1990 Jan;11(1):27–32

Maple syrup urine disease (branched chain ketoaciduria). Harper PA, et al. **Am J Pathol** 1990 Jun;136(6):1445–7

Animal model of human disease. Citrullinemia (argininosuccinate synthetase deficiency). Harper PA, et al. **Am J Pathol** 1989 Dec;135(6):1213–5

Triamcinolone acetonide-induced meningocele and meningoencephalocele in rhesus monkeys. Hendrickx AG, et al. **Am J Pathol** 1990 Mar;136(3):725–7

Oxodipine-induced gingival hyperplasia in beagle dogs. Nyska A, et al. **Am J Pathol** 1990 Sep;137(3):737–9

Niemann-Pick disease. Sphingomyelinosis of Siamese cats. Snyder SP, et al. **Am J Pathol** 1982 Aug;108(2):252–4

The immune response to nematode parasites: modulation of mast cell numbers and function during Strongyloides stercoralis infections in nonhuman primates. Barrett KE, et al. **Am J Trop Med Hyg** 1988 May;38(3):574–81

Characterization of a model of malaria in the pregnant host: Plasmodium berghei in the white rat. Desowitz RS, et al. **Am J Trop Med Hyg** 1989 Dec;41(6):630–4

The BALB/c mouse as a model for immunological studies of microfilariae-induced pulmonary eosinophilia. Egwang TG, et al. **Am J Trop Med Hyg** 1990 Jul;43(1):61–6

Experimental chronic Lyme borreliosis in Lewis rats. Moody KD, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):165–74

Experimental infection of the nine-banded armadillo (Dasypus novemcinctus) with Schistosoma mansoni (Kenyan strain). Smith JH, et al. **Am J Trop Med Hyg** 1988 May;38(3):499–507

Evaluation of pregnant rabbits as a laboratory model for bovid herpesvirus-4 infection. Naeem K, et al. **Am J Vet Res** 1990 Apr;51(4):640–4

A rabbit model of pulmonary hypertension induced by the synthetic platelet-activating factor acetylglyceryl ether phosphorylcholine. Ohar JA, et al. **Am Rev Respir Dis** 1990 Jan;141(1):104–10

NHLBI Workshop Summary. Models of airway hyperresponsiveness. Wanner A, et al. **Am Rev Respir Dis** 1990 Jan;141(1):253–7

A simple method of producing experimental embolism and infarction. Miles RM, et al. **Am Surg** 1966 Mar;32(3):170–6

Equine laminitis: a potential model of Raynaud's phenomenon. Hood DM, et al. **Angiology** 1990 Apr;41(4):270–7

Experimentally induced long QT syndrome in the chick embryo. Christiansen JL, et al. **Ann N Y Acad Sci** 1990;588:314–22

Animal models of human eating disorders. Smith GP. **Ann N Y Acad Sci** 1989;575:63–72; discussion 72–4 (55 ref.)

Experimental autoimmune motoneuron disease. Engelhardt JI, et al. **Ann Neurol** 1989 Sep;26(3):368–76

Ferret model for acquired subglottic stenosis. Alexander KJ, et al. **Ann Otol Rhinol Laryngol** 1989 Nov;98(11):910–5

Risk and consequence of infection at the site of microsurgical repair: an experimental model. Chachques JC, et al. **Ann Plast Surg** 1986 Sep;17(3):221–7

Antigen induced arthritis in beige (Chediak-Higashi) mice. Schalkwijk J, et al. **Ann Rheum Dis** 1990 Aug;49(8):607–10

Animal model of Helicobacter pylori infection [letter] Glupczynski Y, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1462

Animal models for antiviral chemotherapy. Field HJ, et al. **Antiviral Res** 1989 Nov;12(4):165–80 (113 ref.)

Evaluation of new antiviral agents: II. The use of animal models. Hsiung GD, et al. **Antiviral Res** 1989 Dec;12(5–6):239–58 (83 ref.)

Arenavirus infection in the guinea pig model: antiviral therapy with recombinant interferon-alpha, the immunomodulator CL246,738 and ribavirin. Lucia HL, et al. **Antiviral Res** 1989 Dec;12(5–6):279–92

Animal models of human immunodeficiency virus infection. Public Health Service Animal Models Committee. Spertzel RO. **Antiviral Res** 1989 Dec;12(5–6):223–30 (29 ref.)

Hip implant evaluation in an arthritic animal model. Phillips TW, et al. **Arch Orthop Trauma Surg** 1990;109(4):194–6

An animal model of hearing loss from alpha-difluoromethylornithine. Jansen C, et al. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1234–7

An experimental model comparing the antineoplastic and the immunosuppressive effects of some cytostatics. Ghyka G, et al. **Arch Roum Pathol Exp Microbiol** 1989 Jan–Mar;48(1):33–45

Seroma prevention using fibrin glue in a rat mastectomy model. Lindsey WH, et al. **Arch Surg** 1990 Mar;125(3):305–7

Development of a bacteria-independent model of the multiple organ failure syndrome. Steinberg S, et al. **Arch Surg** 1989 Dec;124(12):1390–5

Clinical profile of a 4-year primate atherosclerosis model. Bush MJ, et al. **Artery** 1989;17(1):32–48

Establishment of a vascular graft infection model in the sheep carotid artery. Fletcher JP, et al. **Aust N Z J Surg** 1990 Oct;60(10):801–3

Stunting syndrome in turkeys. Development of an experimental model. Angel CR, et al. **Avian Dis** 1990 Apr–Jun;34(2):447–53

The spontaneously hypertensive rat as an animal model of attention-deficit hyperactivity disorder: effects of methylphenidate on exploratory behavior. Wultz B, et al. **Behav Neural Biol** 1990 Jan;53(1):88–102

Renal Fanconi syndrome: developmental basis for a new animal model with relevance to human disease. Roth KS, et al. **Biochim Biophys Acta** 1989 Dec 11;987(1):38–46

Porcine stress syndrome: an animal model for the neuroleptic malignant syndrome? Keck PE Jr, et al. **Biol Psychiatry** 1990 Jul 1;28(1):58–62

Hematologic manifestations of feline immunodeficiency virus infection. Shelton GH, et al. **Blood** 1990 Sep 15; 76(6):1104–9

The chemotherapeutic response of a murine (VM) model of human glioma. Bradford R, et al. **Br J Cancer** 1990 Jan; 61(1):46–50

Enhancement of inflammatory reactions in a non-immunological air pouch model in rats. Isaji M, et al. **Br J Exp Pathol** 1989 Dec;70(6):705–16

The development of an animal model of glioma for use in experimental neuro-oncology. Bradford R, et al. **Br J Neurosurg** 1989;3(2):197–210

Experimental Acanthamoeba keratitis: I. Preliminary findings. Larkin DF, et al. **Br J Ophthalmol** 1990 Sep; 74(9):551–5

The Briard dog: a new animal model of congenital stationary night blindness. Narfström K, et al. **Br J Ophthalmol** 1989 Sep;73(9):750–6

The respectable art of modelling. Staines NA. **Br J Rheumatol** 1989 Dec;28(6):461–4

Animal models for osteoarthritis—ensuring experimental validity. Warskyj M, et al. **Br J Rheumatol** 1990 Jun; 29(3):219–21

Animal models of Duchenne and Becker muscular dystrophy. Cooper BJ. **Br Med Bull** 1989 Jul;45(3):703–18 (54 ref.)

Recent advances in laboratory models for evaluation of helminth chemotherapy. Coles GC. **Br Vet J** 1990 Mar–Apr;146(2):113–9 (64 ref.)

Evaluation of a 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-treated C57 black mouse model for parkinsonism. Arai N, et al. **Brain Res** 1990 May 7;515(1–2):57–63

A model of the pathophysiology of cerebral arteriovenous malformations by a carotid-jugular fistula in the rat. Morgan MK, et al. **Brain Res** 1989 Sep 4;496(1–2):241–50

Animal models of the epilepsies. Fisher RS. **Brain Res Brain Res Rev** 1989 Jul–Sep;14(3):245–78 (332 ref.)

Animal models in the study of vomiting. King GL. **Can J Physiol Pharmacol** 1990 Feb;68(2):260–8 (116 ref.)

A model for the induction of Pasteurella multocida type-A pneumonia in pigs. Hall WF, et al. **Can J Vet Res** 1990 Apr;54(2):238–43

Granulomatous enteritis following oral inoculation of newborn rabbits with Mycobacterium paratuberculosis of bovine origin. Mokresh AH, et al. **Can J Vet Res** 1990 Jun;54(3):313–9

The chemotherapeutic potential of glycol alkyl ethers: structure-activity studies of nine compounds in a Fischer-rat leukemia transplant model. Dieter MP, et al. **Cancer Chemother Pharmacol** 1990;26(3):173–80

Nonhuman primate models for non-A, non-B hepatitis. Tabor E. **Cancer Detect Prev** 1989;14(2):221–5

Studies of human breast cancer metastasis using nude mice. Price JE, et al. **Cancer Metastasis Rev** 1990 Feb;8(4):285–97 (86 ref.)

Murine models for evaluating antiretroviral therapy. Ruprecht RM, et al. **Cancer Res** 1990 Sep 1;50(17 Suppl):5618S–5627S (74 ref.)

Spontaneous prolactin transplantable tumor in the Wistar/Furth rat (SMtTW): a new animal model of human prolactinoma. Trouillas J, et al. **Cancer Res** 1990 Jul 1; 50(13):4081–6

Animal models in the study of colorectal cancer. Galloway DJ. **Cancer Surv** 1989;8(1):169–88 (146 ref.)

Verification of a canine model of transient exercise induced myocardial dysfunction: antianginal effects of flestolol, an ultra short acting beta adrenoceptor antagonist. Fischer G, et al. **Cardiovasc Res** 1990 Feb;24(2):115–20

Utility of animal models in the study of human airway disease. Wanner A. **Chest** 1990 Jul;98(1):211–7 (62 ref.)

Appropriate animal models for craniofacial biology. Siegel MI, et al. **Cleft Palate J** 1990 Jan;27(1):18–25 (59 ref.)

Murine chronic graft-versus-host disease as a model of systemic lupus erythematosus: effect of immunosuppressive drugs on disease development. Appleby P, et al. **Clin Exp Immunol** 1989 Dec;78(3):449–53

Serum angiotensin converting enzyme activity and plasma renin activity in experimental models of rats. Ibarra-Rubio ME, et al. **Clin Exp Pharmacol Physiol** 1990 Jun;17(6):391–9

Development of a leukocytopenic baby guinea pig model with azathioprine and cyclophosphamide. Kumar A, et al. **Comp Immunol Microbiol Infect Dis** 1989;12(4):91–4

Experimental models of glomerulosclerosis. Weening JJ, et al. **Contrib Nephrol** 1990;77:65–76

Inhibition of platelet aggregation by granulocytes stimulated during experimental trauma. Zoucas E, et al. **Crit Care Med** 1990 Aug;18(8):845–7

The mouse as a model of experimental autoimmune uveoretinitis (EAU). Caspi RR, et al. **Curr Eye Res** 1990; 9 Suppl:169–74

Experimental models of autoimmune diseases. Druet P. **Curr Eye Res** 1990;9 Suppl:139–44 (13 ref.)

An improved model of recurrent herpetic eye disease in mice. Shimeld C, et al. **Curr Eye Res** 1989 Nov;8(11):1193–205

Immunological manipulations in animal pregnancy and models of pregnancy failure. Chaouat G, et al. **Curr Opin Immunol** 1989 Aug;1(6):1153–6 (13 ref.)

Transgenic models of diabetes. Sarvetnick N. **Curr Opin Immunol** 1989–90 Apr;2(4):604–6 (5 ref.)

Animal models for dermatomycotic infections. Van Cutsem J. **Curr Top Med Mycol** 1989;3:1–35 (100 ref.)

The spontaneously diabetic BB rat: sites of the defects leading to autoimmunity and diabetes mellitus. A review. Scott J. **Curr Top Microbiol Immunol** 1990;156:1–14 (56 ref.)

Diseased skin models in the hairless guinea pig: in vivo percutaneous absorption. Moon KC, et al. **Dermatologica** 1990;180(1):8–12

Transgenic mouse models of type I diabetes. Lipes MA, et al. **Diabetes** 1990 Aug;39(8):879–84 (50 ref.)

Viruses as a triggering factor of type 1 diabetes and genetic markers related to the susceptibility to the virus-associated diabetes. Yoon JW, et al. **Diabetes Res Clin Pract** 1989;7 Suppl 1:S47–58 (65 ref.)

Experimental pancreatic cancer in the Syrian hamster: effect of cholecystectomy. Chester JF, et al. **Digestion** 1989; 44(1):36–40

Disparate effect of tamoxifen in rats with experimentally induced endometriosis. Kadaba R, et al. **Endocrinology** 1990 Jun;126(6):3263–7

Thyrotropin dependent and independent thyroid cell lines selected from FRTL-5 derived tumors grown in nude mice. Ossendorp FA, et al. **Endocrinology** 1990 Jul;127(1):419–30

An example of the role of the animal model in investigating new techniques [letter] Cosolo WC, et al. **Eur J Cancer Clin Oncol** 1989 Oct;25(10):1511–2

Intraperitoneal tumor growth and chemotherapy in a rat model. Los G, et al. **Eur J Cancer Clin Oncol** 1989 Dec; 25(12):1857–66

Coxsackievirus B3 myocarditis in C3H/HeJ mice: description of an inbred model and the effect of exercise on virulence. Kiel RJ, et al. **Eur J Epidemiol** 1989 Sep;5(3):348–50

Animal models of cerebral stroke: pharmacological protection of function. De Ryck M. **Eur Neurol** 1990;30 Suppl 2:21–7; discussion 39–41 (32 ref.)

Late onset hereditary cataract of the emory mouse. A model for human senile cataract. Kuck JF. **Exp Eye Res** 1990 Jun;50(6):659–64 (22 ref.)

Animal models for the study of maturity-onset and hereditary cataract. Zigler JS Jr. **Exp Eye Res** 1990 Jun;50(6):651–7 (53 ref.)

Scrapie as a model for neuroaxonal dystrophy: ultrastructural studies. Liberski PP, et al. **Exp Neurol** 1989 Nov; 106(2):133–41

Pneumocystis carinii: improved models to study efficacy of drugs for treatment or prophylaxis of Pneumocystis pneumonia in the rat (Rattus spp.). Bartlett MS, et al. **Exp Parasitol** 1990 Jan;70(1):100–6

Taenia crassiceps: experimental model of intraocular cysticercosis. Cárdenas F, et al. **Exp Parasitol** 1989 Nov; 69(4):324–9

NIH grants license for rabbit AIDS model [news] **FASEB J** 1990 Feb 1;4(2):251

Animal models of AIDS. Gardner MB, et al. **FASEB J** 1989 Dec;3(14):2593–606 (115 ref.)

Pathogenic idiotypes of autoantibodies in autoimmunity: lessons from new experimental models of SLE. Shoenfeld Y, et al. **FASEB J** 1990 Jun;4(9):2646–51 (46 ref.)

A predictive mouse ear-swelling model for investigating topical photoallergy. Gerberick GF, et al. **Food Chem Toxicol** 1990 May;28(5):361–8

An experimental model of death from anaphylactic shock with compound 48/80 and postmortem changes in levels of histamine in blood. Hieda Y, et al. **Forensic Sci Int** 1990 Mar;45(1–2):159–69

Increased brain uptake of gamma-aminobutyric acid in a rabbit model of hepatic encephalopathy. Bassett ML, et al. **Gastroenterology** 1990 Mar;98(3):747–57

A novel method in the induction of reliable experimental acute and chronic ulcerative colitis in mice. Okayasu I, et al. **Gastroenterology** 1990 Mar;98(3):694–702

Effect of FOY-305 (Camostate) on severe acute pancreatitis in two experimental animal models [letter; comment] Redmond HP, et al. **Gastroenterology** 1989 Dec;97(6):1600 Comment on: Gastroenterology 1989 Jan;96(1):193–9.

An experimental animal model of granulomatous bowel disease. Mitchell IC, et al. **Gut** 1989 Oct;30(10):1371–8

Induction of pancreatic tumours by longterm duodenogastric reflux. Taylor PR, et al. **Gut** 1989 Nov;30(11):1596–600

Xenografts of pediatric solid tumors: predictive intermediate models? Houghton PJ, et al. **Hematol Bluttransfus** 1989; 32:149–55

Animal models for alcoholic liver disease. French SW, et al. **Hepatology** 1989 Nov;10(5):898–9

Experimental autoimmune hepatitis in the mouse: a promising model [letter] Mihas AA. **Hepatology** 1990 Sep;12(3 Pt 1):626–8

Hemodynamic mechanisms of emerging portal hypertension caused by schistosomiasis in the hamster. Morgan JS, et al. **Hepatology** 1990 Jan;11(1):98–104

An experimental model for salpingitis due to Chlamydia trachomatis and residual tubal infertility in the mouse. Zana J, et al. **Hum Reprod** 1990 Apr;5(3):274–8

Animal models of prenatal exposure to diethylstilboestrol. Walker BE. **IARC Sci Publ** 1989;(96):349–64 (104 ref.)

Altered immunoregulation and autoimmune aspects of HIV infection: relevant murine models. Via CS, et al. **Immunol Today** 1990 Jul;11(7):250–5 (75 ref.)

A rabbit model for mucosal immunity in the bowel. II. Local cellular reactivity to virus infection. Ramsay AJ, et al. **Immunology** 1990 Jan;69(1):27–32

Experimental model of staphylococcal osteomyelitis in dogs. Varshney AC, et al. **Indian J Exp Biol** 1989 Sep;27(9):816–9

Animal transmission of enteric non-A, non-B hepatitis infection to Macaca mulatta by faeco-oral route. Gupta H, et al. **Indian J Med Res** 1990 Mar;91:87–90

Brain histomorphology in protein deprived rhesus monkeys with fatal malarial infection. Tatke M, et al. **Indian J Med Res** 1989 Nov;89:404–10

Use of DBA/2N mice in models of systemic candidiasis and pulmonary and systemic aspergillosis. Hector RF, et al. **Infect Immun** 1990 May;58(5):1476–8

Diarrhea induced by Treponema hyodysenteriae: a young chick cecal model for swine dysentery. Sueyoshi M, et al. **Infect Immun** 1990 Oct;58(10):3348–62

Experimental model of type IV Streptococcus agalactiae (group B streptococcus) infection in mice with early development of septic arthritis. Tissi L, et al. **Infect Immun** 1990 Sep;58(9):3093–100

New mouse models for chronic Cryptosporidium infection in immunodeficient hosts. Ungar BL, et al. **Infect Immun** 1990 Apr;58(4):961–9

Murine spontaneous T-cell leukemia constitutively expressing IL-2 receptor—a model for human T-cell malignancies expressing IL-2 receptor. Lugasi H, et al. **Int J Cancer** 1990 Jan 15;45(1):163–7

Minimal residual disease in leukemia: studies in an animal model for acute myelocytic leukemia (BNML). Martens AC, et al. **Int J Cell Cloning** 1990 Jan;8(1):27–38 (50 ref.)

Strongyloides venezuelensis infections in mice. Sato Y, et al. **Int J Parasitol** 1990 Feb;20(1):57–62

Twenty-four-hour whole-body retention of 47Ca-chloride: an index of global bone metabolism in rat models. Seto H, et al. **Int J Rad Appl Instrum [B]** 1989;16(8):799–804

Animal models of parkinsonism using selective neurotoxins: clinical and basic implications. Zigmond MJ, et al. **Int Rev Neurobiol** 1989;31:1–79 (583 ref.)

Human xenografts. A model system for human papillomavirus infection. Howett MK, et al. **Intervirology** 1990;31(2–4):109–15

Persistent HIV-2 infection of rhesus macaque, baboon, and mangabeys. Nicol I, et al. **Intervirology** 1989;30(5):258–67

Chlamydial infection of subcutaneous conjunctival transplants in guinea pigs. Pham RT, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1367–73

Antibasement membrane antibody-mediated experimental conjunctivitis. Roat MI, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):168–75

Experimental preparations and models for MRS. Balaban RS. **Invest Radiol** 1989 Dec;24(12):948–50 (11 ref.)

Percutaneous pulsed-dye laser lithotripsy of gallbladder stones in swine. Kopecky KK, et al. **Invest Radiol** 1990 Jun;25(6):627–30

Calcium channel blockers and experimental acute renal failure. Blau A, et al. **Isr J Med Sci** 1990 Jun;26(6):334–6

Date palm thorn injury—an animal model. Sperber AD, et al. **Isr J Med Sci** 1990 Jan;26(1):58–60

Naturally occurring cardiomyopathy in the Doberman pinscher: a possible large animal model of human cardiomyopathy? Smucker ML, et al. **J Am Coll Cardiol** 1990 Jul;16(1):200–6

A preconditioned arthritic hip model. Phillips TW, et al. **J Arthroplasty** 1989 Sep;4(3):193–200

Experimental autoimmune uveoretinitis in mice. Induction by a single eliciting event and dependence on quantitative parameters of immunization. Caspi RR, et al. **J Autoimmun** 1990 Jun;3(3):237–46

Experimental autoimmune myasthenia gravis induced in mice without adjuvant: genetic susceptibility and adoptive transfer of weakness. Jermy AC, et al. **J Autoimmun** 1989 Oct;2(5):675–88

Autoantibody repertoire analysis in normal and lupus-prone mice. Starobinski M, et al. **J Autoimmun** 1989 Oct; 2(5):657–74

Treatment of castration-induced osteoporosis by a capacitively coupled electric signal in rat vertebrae [letter; comment] Simmons ED, et al. **J Bone Joint Surg [Am]** 1990 Feb;72(2):307 Comment on: J Bone Joint Surg [Am] 1989 Feb;71(2):228–36.

19th annual UCLA symposium: Animal models of human viral diseases: relevance to developmental therapeutics. Abstracts. **J Cell Biochem Suppl** 1990;14D:41–75

Plasma proteinase regulation during disease progression in murine models of SLE. Hart DA, et al. **J Clin Lab Immunol** 1989 Sep;30(1):27–34

Evaluation of a murine model of hepatic candidiasis. Cole GT, et al. **J Clin Microbiol** 1990 Aug;28(8):1828–41

Tuberculosis in domesticated deer (Cervus elaphus): a large

animal model for human tuberculosis. Buchan GS, et al. **J Comp Pathol** 1990 Jul;103(1):11–22

Measurement of dietary and dentifrice effects upon calculus accumulation rates in the domestic ferret. Harper DS, et al. **J Dent Res** 1990 Feb;69(2):447–50

Reduction of calculus accumulation in domestic ferrets with two dentifrices containing pyrophosphate. Mann PH, et al. **J Dent Res** 1990 Feb;69(2):451–3

Prevention of the normal expansion of maternal plasma volume: a model for chronic fetal hypoxaemia. Daniel SS, et al. **J Dev Physiol** 1989 Apr;11(4):225–33

A controlled model of moist wound healing: comparison between semi-permeable film, antiseptics and sugar paste. Archer HG, et al. **J Exp Pathol (Oxford)** 1990 Apr; 71(2):155–70

Experimental osteoarthritis in guinea-pigs. Mescock SC, et al. **J Exp Pathol (Oxford)** 1990 Apr;71(2):279–93

Degenerative knee joint lesions in mice after a single intra-articular collagenase injection. A new model of osteoarthritis. van der Kraan PM, et al. **J Exp Pathol (Oxford)** 1990 Feb;71(1):19–31

"Paradoxical" growth hormone secretion in acromegaly: an avian model? Harvey S. **J Exp Zool Suppl** 1990;4:195–9 (51 ref.)

The pathogenesis of equine herpesvirus type 1 in the mouse: a new model for studying host responses to the infection. Awan AR, et al. **J Gen Virol** 1990 May;71 (Pt 5):1131–40

Immunological response of monkeys infected intranasally with human parainfluenza virus type 4. Komada H, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3487–92

Reactivation of latent infection and induction of recurrent herpetic eye disease in mice. Shimeld C, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):397–404

The immune response of male DSN hamsters to a primary infection with Ancylostoma ceylanicum. Garside P, et al. **J Helminthol** 1989 Sep;63(3):251–60

Strain-dependent differences in susceptibility of mice to experimental Angiostrongylus costaricensis infection. Ishii AI, et al. **J Helminthol** 1989 Dec;63(4):302–6

Suppression of cerebral, myocardial and renal arteriosclerosis by the calcium antagonist flunarizine in hypertensive rats (Skelton model) without reduction of the high blood pressure. Schwabedal PE, et al. **J Hypertens Suppl** 1989 Dec;7(6):S280–1

Lyme borreliosis in selected strains and ages of laboratory mice. Barthold SW, et al. **J Infect Dis** 1990 Jul;162(1):133–8

Experimental cryptosporidiosis in a primate model. Miller RA, et al. **J Infect Dis** 1990 Feb;161(2):312–5

Immunogenetics of mycobacterial infections: mouse-human homologies. Schurr E, et al. **J Infect Dis** 1990 Apr; 161(4):634–9 (59 ref.)

Enzymological characterization of a feline analogue of primary hyperoxaluria type 2: a model for the human disease. Danpure CJ, et al. **J Inherited Metab Dis** 1989; 12(4):403–14

Rhesus monkey model of familial hypercholesterolemia: relation between plasma Lp[a] levels, apo[a] isoforms, and LDL-receptor function. Neven L, et al. **J Lipid Res** 1990 Apr;31(4):633–43

Nonhuman primates and teratological research. Hendrickx AG, et al. **J Med Primatol** 1990;19(2):81–108 (194 ref.)

Experimental infection of African green monkeys and cynomolgus monkeys with a SIVAGM strain isolated from a healthy African green monkey. Honjo S, et al. **J Med Primatol** 1990;19(1):9–20

Encephalitis induced by a canine distemper virus in squirrel monkeys. Nagata T, et al. **J Med Primatol** 1990; 19(2):137–49

Carbon monoxide excretion as an index of bilirubin production in rhesus monkeys. Vreman HJ, et al. **J Med Primatol** 1989;18(6):449–60

Antiviral strategies in chronic hepatitis B virus infection: I. Establishment of an in vitro system using the duck hepatitis B virus model. Bishop N, et al. **J Med Virol** 1990 Jun; 31(2):82–9

Antiviral strategies in chronic hepatitis B virus infection: II. Inhibition of duck hepatitis B virus in vitro using conventional antiviral agents and supercoiled-DNA active compounds. Civitico G, et al. **J Med Virol** 1990 Jun; 31(2):90–7

Intracranial C6 glioma model in adult Wistar-Furth rats [letter] Cohen JD, et al. **J Neurooncol** 1990 Feb;8(1):95–6

A new rat brain tumor model: glioma disseminated via the cerebral spinal fluid pathways. Rewers AB, et al. **J Neurooncol** 1990 Jun;8(3):213–9

Assessment of the experimental model of transplanted C6 glioblastoma in Wistar rats. San-Galli F, et al. **J Neurooncol** 1989 Sep;7(3):299–304

Beam-walking in rats: studies towards developing an animal model of functional recovery after brain injury. Goldstein LB, et al. **J Neurosci Methods** 1990 Feb;31(2):101–7

A technique for placing ventriculoperitoneal shunts in a neonatal model of hydrocephalus. Lovely TJ, et al. **J Neurosci Methods** 1989 Sep;29(3):201–6

An in vivo model of varicella-zoster virus latent infection of dorsal root ganglia. Sadzot-Delvaux C, et al. **J Neurosci Res** 1990 May;26(1):83–9

A rabbit model for fetal cleft lip repair. Longaker MT, et al. **J Oral Maxillofac Surg** 1990 Jul;48(7):714–9

A novel anthelmintic model utilizing jirds, Meriones unguiculatus, infected with Haemonchus contortus. Conder GA, et al. **J Parasitol** 1990 Apr;76(2):168–70

Anatomical distribution of developing trophozoites and schizonts of Plasmodium vivax in Aotus lemurinus lemurinus and Saimiri sciureus. Fremount HN, et al. **J Parasitol** 1990 Jun;76(3):428–30

Macaca fascicularis, a nonpermissive host for the human filarial parasite Loa loa. Pinder M, et al. **J Parasitol** 1990 Jun;76(3):373–6

Circulating parasite antigen in Brugia pahangi-infected jirds. Weil GJ, et al. **J Parasitol** 1990 Feb;76(1):78–84

Time-related decrease of substance P and CGRP in central and peripheral projections of sensory neurones in Mycobacterium leprae infected nude mice: a model for lepromatous leprosy in man. Karanth SS, et al. **J Pathol** 1990 Apr;160(4):335–45

Animal model of margosa oil ingestion with Reye-like syndrome. Pathogenesis of microvesicular fatty liver. Sinniah R, et al. **J Pathol** 1989 Nov;159(3):255–64

Experimental avascular necrosis of the femoral capital epiphysis and induced subluxation of the hip in young rabbits. Kamegaya M, et al. **J Pediatr Orthop** 1990 Jan-Feb; 10(1):1–5

Complete heart block in fetal lambs. I. Technique and acute physiological response. Crombleholme TM, et al. **J Pediatr Surg** 1990 Jun;25(6):587–93

Use of the ferret for a myocardial ischemia/salvage model. Gomoll AW, et al. **J Pharmacol Methods** 1990 May; 23(3):213–23

New spinal cord injury model produced by spinal cord compression in the rat. Hashimoto T, et al. **J Pharmacol Methods** 1990 May;23(3):203–12

Spontaneous osteoarthritis in rhesus macaques. II. Characterization of disease and morphometric studies [see comments] Châteauvert JM, et al. **J Rheumatol** 1990 Jan; 17(1):73–83 Comment in: J Rheumatol 1990 Jan;17(1):5–6.

Animal models of osteoarthritis [editorial; comment] Sokoloff L. **J Rheumatol** 1990 Jan;17(1):5–6 Comment on: J Rheumatol 1990 Jan;17(1):73–83.

Experimental models of acute pancreatitis. Bilchik AJ, et al. **J Surg Res** 1990 Jun;48(6):639–47 (98 ref.)

A model of reversible obstructive jaundice in the rat. Posner MC, et al. **J Surg Res** 1990 Mar;48(3):204–10

Nobel laureates call for speaking out on need for animals in research [news] **JAMA** 1989 Nov 17;262(19):2647–8

Animals in research [letter; comment] **JAMA** 1989 Dec 22–29;262(24):3404–6 Comment on: JAMA 1989 Jun 23–30;261(24):3602–6.

Potential usefulness of a cultured glioma cell line induced by Rous sarcoma virus in B10.A mouse as an immunotherapy model. Sakamoto K, et al. **Jpn J Exp Med** 1989 Oct;59(5):173–80

A new bronchial asthma model using calcium ionophore A23187 in guinea pigs. Misawa M, et al. **Jpn J Pharmacol** 1989 Nov;51(3):446–9

Clinical examination of weanling rats with early zinc deficiency. Van Herck H, et al. **Lab Anim** 1989 Oct; 23(4):328–32

A model of postprandial hyperinsulinemia in miniature swine. Weingand KW. **Lab Anim Sci** 1989 Sep;39(5):394–9

Experimental model of immune-mediated hearing loss using cross-species immunization. Orozco CR, et al. **Laryngoscope** 1990 Sep;100(9):941–7

Preliminary observations on experimental leprosy in tupaias (Tupaia belangeri yunalis). Wang HY, et al. **Lepr Rev** 1990 Mar;61(1):12–8

A sheep model for MPTP induced Parkinson-like symptoms. Hammock BD, et al. **Life Sci** 1989;45(17):1601–8

Experimental group A rotaviral infection in cynomolgus monkeys raised on formula diet. Leong YK, et al. **Microbiol Immunol** 1990;34(2):153–62

Influenza C virus infection in rats. Takiguchi K, et al. **Microbiol Immunol** 1990;34(1):35–44

Pathogenesis and immunity in murine salmonellosis. Hsu HS. **Microbiol Rev** 1989 Dec;53(4):390–409 (132 ref.)

Transgenic mouse model of familial amyloidotic polyneuropathy. Shimada K, et al. **Mol Biol Med** 1989 Aug; 6(4):333–43 (39 ref.)

An animal model for oropharyngeal, esophageal and gastric candidosis. Cole GT, et al. **Mycoses** 1990 Jan;33(1):7–19

A new experimental model of localized candidosis for the study of antifungal chemotherapy. Polak A, et al. **Mycoses** 1989 Aug;32(8):398–404

Schistosomiasis. The mouse that wasn't immune [news] Cox FE. **Nature** 1990 May 3;345(6270):18

Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene. Mullins JJ, et al. **Nature** 1990 Apr 5; 344(6266):541–4

Glycerol-induced acute renal failure in the rat: the protective effect of unilateral nephrectomy. Anteby EY, et al. **Nephrol Dial Transplant** 1990;5(2):118–22

Experimental intracranial hypertension following cisternal injection of various blood components. Fujii H, et al. **Neurochirurgia (Stuttg)** 1989 Nov;32(6):165–7

Is the gene for von Recklinghausen neurofibromatosis somatically unstable? Schaible RH. **Neurofibromatosis** 1989; 2(3):138–51

An experimental model of cerebral venous hypertension in the rat. Kurokawa Y, et al. **Neurol Med Chir (Tokyo)** 1989 Mar;29(3):175–80

Comparison of methods eliciting cerebral ischaemic pressor response in the cat. Kocsis B, et al. **Neurol Res** 1990 Mar; 12(1):49–53

Inflammatory demyelinating neuropathy in C57BL/KaLwRij mice. Vital A, et al. **Neuropathol Appl Neurobiol** 1989 Nov-Dec;15(6):543–8

An attempt to cause the selective loss of the cholinergic neurons in the basal forebrain of the rat: a new animal model of Alzheimer's disease. Kudo Y, et al. **Neurosci Lett** 1989 Jul 31;102(2–3):125–30

Growth of human schwannomas in the subrenal capsule of the nude mouse. Lee JK, et al. **Neurosurgery** 1990 Apr; 26(4):598–605

Prenatal alcohol exposure: comparability of effects in humans and animal models. Driscoll CD, et al. **Neurotoxicol Teratol** 1990 May-Jun;12(3):231–7 (65 ref.)

Animals in research on addictive and mental disorders: foundation of the quest for knowledge. Goodwin FK. **NIDA Res Monogr** 1989;95:6–15

Prediction of risk for human developmental toxicity: how important are animal studies for hazard identification? Jelovsek FR, et al. **Obstet Gynecol** 1989 Oct;74(4):624–36

A model for desferrioxamine-induced retinopathy using the albino rat. Good PA, et al. **Ophthalmologica** 1990; 201(1):32–6

A model for the study of lymph node metastasis from oral carcinoma by serial transplantation of metastatic tumor in hamsters. Ohtake K, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun;69(6):701–7

Animal models of chronic pain: scientific and ethical issues. Casey KL, et al. **Pain** 1989 Sep;38(3):249–52

Injection of microspheres into pancreatic arteries causes acute hemorrhagic pancreatitis in the rat: a new animal model. Redha F, et al. **Pancreas** 1990 Mar;5(2):188–93

A marmoset model for some New World dermatotropic leishmaniases. Pereira LH, et al. **Parassitologia** 1988 May-Dec;30(2–3):187–96

Bronze baby syndrome: an animal model. Jori G, et al. **Pediatr Res** 1990 Jan;27(1):22–5

The effects of exogenous rat growth hormone therapy on growth of uremic rats fed an 8% protein diet. Nakano M, et al. **Pediatr Res** 1989 Sep;26(3):204–7

Behavioral deficits in rats with minimal cortical hypoplasia induced by methylazoxymethanol acetate. Mercugliano M, et al. **Pediatrics** 1990 Mar;85(3 Pt 2):432–6

A liquid diet model of chlordiazepoxide dependence in mice. Chan AW, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):839–45

Characterization of the spontaneous diabetes obesity syndrome in mature male CBA/Ca mice. Connelly DM, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):255–9

Ethologically-based animal models of anxiety disorders. Lister RG. **Pharmacol Ther** 1990;46(3):321–40 (233 ref.)

The hairless mouse as a model of skin photoaging: its use to evaluate photoprotective materials. Bissett DL, et al. **Photodermatol** 1989 Oct;6(5):228–33

Research design considerations in studying edema. Mohr TM. **Phys Ther** 1990 Sep;70(9):583–6

An experimental model for chronic lymphedema. Kanter MA, et al. **Plast Reconstr Surg** 1990 Apr;85(4):573–80

Ascites in growing broilers: a research model. Witzel DA, et al. **Poult Sci** 1990 May;69(5):741–5

The rat as an animal model for retinopathy of prematurity. Penn JS, et al. **Prog Clin Biol Res** 1989;314:623–42 (47 ref.)

A murine model for short-chain acyl-CoA dehydrogenase deficiency. Wood PA, et al. **Prog Clin Biol Res** 1990; 321:427–34

Experimental animal modeling of depression and anxiety. Harris JC. **Psychiatr Clin North Am** 1989 Dec;12(4):815–36 (96 ref.)

Gallbladder ablation: need for a better model [letter; comment] Hall RC, et al. **Radiology** 1989 Nov; 173(2):578–80 Comment on: Radiology 1989 Apr;171(1):235–40.

Use of laboratory animal models in investigating emphysema and cigarette smoking in humans. Thomas RD, et al. **Regul Toxicol Pharmacol** 1989 Dec;10(3):264–71 (38 ref.)

Acute induction of sustained ventricular tachycardia: a new porcine model. Schmid C, et al. **Res Exp Med (Berl)** 1989; 189(5):363–70

Animal model system for studying virulence of and host response to Bacteroides fragilis. Onderdonk AB, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 2:S169–77 (45 ref.)

Animal models of fibrosis. Bocchieri MH, et al. **Rheum Dis Clin North Am** 1990 Feb;16(1):153–67 (76 ref.)

Experimental immune mediated arthritis in rhesus monkeys. A model for human rheumatoid arthritis? Bakker NP, et al. **Rheumatol Int** 1990;10(1):21–9

Cellular basis and oncogene expression of rheumatoid joint destruction. Gay S, et al. **Rheumatol Int** 1989;9(3–5):105–13 (57 ref.)

Animal model of anxiety: effect of acute diazepam treatment in the older adult genetically hypertensive rats of Koletsky type and in the older adult rats of Wistar strain. Golda V, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove** 1989;32(4):407–23

The relevance of animal models in osteoarthritis. Moskowitz RW. **Scand J Rheumatol Suppl** 1990;81:21–3

The woolly monkey (Lagothrix lagothricha): a possible model for human hypertension research. Müller M, et al. **Schweiz Arch Tierheilkd** 1989;131(9):569–76

Induction of AIDS in rhesus monkeys by molecularly cloned simian immunodeficiency virus [see comments] Kestler H, et al. **Science** 1990 Jun 1;248(4959):1109–12 Comment in: Science 1990 Jun 1;248(4959):1078.

Concerns raised about mouse models for AIDS [news; comment] Marx J. **Science** 1990 Feb 16;247(4944):809 Comment on: Science 1990 Feb 16;247(4944):848–52.

A reliable animal model for AIDS [news; comment] Palca J. **Science** 1990 Jun 1;248(4959):1078 Comment on: Science 1990 Jun 1;248(4959):1109–12.

Osteoarthritis research: animal models. Altman RD, et al. **Semin Arthritis Rheum** 1990 Feb;19(4 Suppl 1):21–5 (41 ref.)

Animal models of renal cell carcinoma. Rangel MC, et al. **Semin Urol** 1989 Nov;7(4):237–46 (43 ref.)

Relevance of animal models to stroke [letter; comment] **Stroke** 1990 Jul;21(7):1091–2 Comment on: Stroke 1990 Jan;21(1):1–3.

Animal models of stroke: are they relevant to human disease? [editorial] [see comments] Wiebers DO, et al. **Stroke** 1990 Jan;21(1):1–3 Comment in: Stroke 1990 Jul;21(7):1091–2.

Animal stroke models. They are relevant to human disease. Zivin JA, et al. **Stroke** 1990 Jul;21(7):981–3 (22 ref.)

An animal model of pancreatic cancer involving whole pancreas transplantation. Sayers HJ, et al. **Surg Forum** 1978; 29:122–4

A new animal model for testing the effectiveness of chemotherapeutic agents on renal adenocarcinoma. White RD, et al. **Surg Forum** 1978;29:629–31

A new model for experimental brain abscess in rats and mice. Winn HR, et al. **Surg Forum** 1978;29:500–2

Selective occlusion of blood supply to the anterior perforated substance of the dog: a highly reproducible stroke model. Brenowitz G, et al. **Surg Neurol** 1990 Apr;33(4):247–52

Cerebral vasospasm in a double-injection model in rabbit. Spallone A, et al. **Surg Neurol** 1989 Dec;32(6):408–17

Platelet membrane defects in fawn hooded bleeder rats. Kirchmaier CM, et al. **Thromb Res** 1990 Feb 1;57(3):353–60

Acute carbon monoxide poisoning: animal models: a review. Penney DG. **Toxicology** 1990 May 31;62(2):123–60 (133 ref.)

A model of hepatic amoebiasis in random bred mice. Bhol KC, et al. **Trans R Soc Trop Med Hyg** 1989 May-Jun; 83(3):346–8

The lymphatic pathology of chronic Brugia pahangi infection in the dog. Snowden KF, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct;83(5):670–8

The myotonic mouse—a realistic model for the study of human recessive generalized myotonia. Rüdel R. **Trends Neurosci** 1990 Jan;13(1):1–3 (24 ref.)

Validity of animal models in endocrine pathology. Flack JD, et al. **Trends Pharmacol Sci** 1989 Aug;10(8):301–3 (4 ref.)

Brugia pahangi adults implanted into mice: a possible screen for filaricidal activity. Denham DA, et al. **Trop Med Parasitol** 1990 Jun;41(2):223–4

The beige mouse model for Mycobacterium avium complex (MAC) disease: optimal conditions for the host and parasite. Gangadharam PR, et al. **Tubercle** 1989 Dec;70(4):257–71

Experimental congenital obstructive uropathy. Peters CA, et al. **Urol Clin North Am** 1990 May;17(2):437–47 (43 ref.)

The new disease model of alcoholism. Wallace J. **West J Med** 1990 May;152(5):502–5 (23 ref.)

Septic arthritis—an experimental animal model useful in free oxygen radical research. Linhart WE, et al. **Z Versuchstierkd** 1990;33(2):65–71

Immunological induction of endometritis-model investigations in cows. Kluciński W, et al. **Zentralbl Veterinarmed** [A] 1990 Mar;37(2):148–53

[An animal model of pump-controlled gastroenteric feeding] You ZY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):287–8, 319 (Eng. Abstr.) (Chi)

[A model of isobaric hypoxic pulmonary hypertension in rats] Xue QF. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Dec;12(6):350–2, 381–2 (Eng. Abstr.) (Chi)

[An animal model of human laryngeal carcinoma and its biological characteristics] Zhang K. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1990;25(1):25–7, 62–3 (Eng. Abstr.) (Chi)

[A model of daunorubicin-induced nephrotic syndrome in the rat] Jiang XY. **Chung Hua I Hsueh Tsa Chih** 1989 May; 69(5):288–90 (Chi)

[Establishment of an animal model of intrauterine growth retardation (IUGR)] Zhang WY. **Chung Hua I Hsueh Tsa Chih** 1989 Nov;69(11):629–30, 44 (Eng. Abstr.) (Chi)

[Establishment of a transplantable sarcoma in the hamster and study of its biological behaviour] Zhang KH. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Mar; 24(2):88–90 (Chi)

[Multiplication of mycobacterium leprae in nude mice] Wang HY. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Oct;11(5):358–62 (Eng. Abstr.) (Chi)

[Experimental models of arthritis induced by various cartilage collagen type] Novotná J, et al. **Cas Lek Cesk** 1989 Jan 27;128(5):139–45 (Eng. Abstr.) (Cze)

[Experimental models and their importance in the study of osteoarthrosis] Rohožková D, et al. **Cesk Fysiol** 1990; 39(2):97–103 (Cze)

[Experimental injuries of the spinal cord] Beneš V, et al. **Cesk Neurol Neurochir** 1989 Jul;52(4):243–8 (Eng. Abstr.) (Cze)

[Illness, not only in humans] Walvoort HC. **Ned Tijdschr Geneeskd** 1990 Jun 16;134(24):1190–1 (Dut)

[Contribution of murine models of spontaneous lupus to the analysis of genetic factors in human disease] Tron F. **Ann Med Interne (Paris)** 1990;141(3):217–21 (22 ref.) (Eng. Abstr.) (Fre)

[Value of nu/nu mice in the production of experimental amoebic keratitis with Acanthamoeba] Paniagua-Crespo E, et al. **C R Acad Sci [III]** 1989;309(11):499–503 (Eng. Abstr.) (Fre)

[Cytoprotection (6). Models for studying hepatic cytoprotection] Guillouzo A, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):725–30 (41 ref.) (Fre)

[Acute experimental glomerulonephritis induced by the glomerular deposition of circulating polymeric IgA–concanavalin A complexes] Davin JC, et al. **Nephrologie** 1989;10(3):151–5 (Eng. Abstr.) (Fre)

[Formation of immune deposits during experimental extramembranous glomerulonephritis] Verroust P, et al. **Nephrologie** 1989;10(3):123–6 (55 ref.) (Eng. Abstr.) (Fre)

[A century of neurotransplantation in mammals] Woerly S, et al. **Neurochirurgie** 1990;36(2):71–95 (352 ref.) (Eng. Abstr.) (Fre)

[Teratospermia and the fertilizing capacity of semen in the lemur] Brun B, et al. **Pathol Biol (Paris)** 1990 Mar; 38(3):173–6 (Eng. Abstr.) (Fre)

[Primates as a model for the study of lentiviruses and AIDS] Dormont D. **Pathol Biol (Paris)** 1990 Mar;38(3):182–8 (33 ref.) (Eng. Abstr.) (Fre)

[Value of primates for the evaluation of pulmonary pathology] Masse R, et al. **Pathol Biol (Paris)** 1990 Mar; 38(3):193–6 (23 ref.) (Eng. Abstr.) (Fre)

[The marmoset in biomedical research. Value of this primate model for cardiovascular studies] Michel JB, et al. **Pathol Biol (Paris)** 1990 Mar;38(3):197–204 (69 ref.) (Eng. Abstr.) (Fre)

[Primates in the study of hepatitis viruses] Pillot J. **Pathol Biol (Paris)** 1990 Mar;38(3):177–81 (Eng. Abstr.) (Fre)

[What model for which thrombosis and why?] Drouet L. **Vasa Suppl** 1989;27:154–6 (Fre)

[Transgenic mice as disease models] Brem G. **Arzneimittelforschung** 1990 Mar;40(3):335–43 (Eng. Abstr.) (Ger)

[Modeling hyperparathyroid osteodystrophy in animals] Spuzjak MI. **Radiol Diagn (Berl)** 1989;30(6):697–702 (Eng. Abstr.) (Ger)

[The hemodynamics of the lung circulation of minipigs after experimentally-caused Sedlarik's pulmonary embolism. I. Sedlarik's pulmonary embolism model in comparison to existing embolism models] Lesser T, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):342–6 (16 ref.) (Eng. Abstr.) (Ger)

[The hemodynamics of the lung circulation of minipigs after experimentally-caused Sedlarik's pulmonary embolism. III. Sedlarik's embolization of the lung circulation by electrically-activated blood] Lesser T, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):351–9 (Eng. Abstr.) (Ger)

[Experimental model of ischemic injury of the spinal cord after temporary occlusion of the thoracic artery in the dog] Sulla I, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):379–82 (Eng. Abstr.) (Ger)

[Liver cirrhosis—model and clinical practice] Dargel R, et al. **Z Med Lab Diagn** 1990;31(4):187–91 (18 ref.) (Ger)

[Root caries—a rat model] Stösser L, et al. **Zahn Mund Kieferheilkd** 1989;77(7):655–8 (Eng. Abstr.) (Ger)

[An animal model for the study of liver regeneration by magnetic resonance imaging] Patrizio G, et al. **Radiol Med (Torino)** 1990 May;79(5):453–7 (Eng. Abstr.) (Ita)

[Review: experimental studies on Creutzfeldt-Jakob disease] Tateishi J. **Jikken Dobutsu** 1989 Oct;38(4):289–92 (25 ref.) (Jpn)

[A new model of complete global brain ischemia produced by clamping the ascending aorta with aorta to right-atrium and aorta to femoral vein bypass formation in dogs] Hashimoto H. **Masui** 1989 Jul;38(7):859–67 (Eng. Abstr.) (Jpn)

[An experimental study on surgical treatment of tracheomalacia— methods for making models of tracheomalacia and development of a new operative method] Hanawa T, et al. **Nippon Geka Gakkai Zasshi** 1989 Jul;90(7):1072–80 (Eng. Abstr.) (Jpn)

[A new reliable model for ischemic colitis: preliminary report] Ichihara T, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):295 (Jpn)

[Animal model of motion sickness in rats] Morita M. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Sep;92(9):1424–35 (Eng. Abstr.) (Jpn)

[Progressive glomerular sclerosis and renal failure in rat with 7/8 nephrectomy model] Makino H, et al. **Nippon Jinzo Gakkai Shi** 1990 Feb;32(2):127–36 (Eng. Abstr.) (Jpn)

[Daunomycin rats. Second Report. Is it possible to use daunomycin rats as an experimental model of chronic renal failure?] Shimizu K, et al. **Nippon Jinzo Gakkai Shi** 1990 Feb;32(2):137–45 (Eng. Abstr.) (Jpn)

[Development of animal models for hypertension research and current problems] Yamori Y. **Nippon Rinsho** 1989 Sep; 47(9):2109–14 (Jpn)

[Experimental model of respiratory distress syndrome by lung lavage with fluorocarbon] Takeda T. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep; 41(9):1417–22 (Eng. Abstr.) (Jpn)

[Studies on rat infectious pancreatitis models by subcapsular injection of dog's bile and appendix contents] Kenmochi T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Dec; 86(12):2840 (Jpn)

[Experimental complex partial seizure and its possible clinical application] Tanaka T. **No To Hattatsu** 1990 Mar; 22(2):121–5 (10 ref.) (Eng. Abstr.) (Jpn)

[Experimental brain tumor in adult mongrel cat] Kabuto M, et al. **No To Shinkei** 1990 Apr;42(4):339–43 (Eng. Abstr.) (Jpn)

[Piglets as a model for studying the activity of staphylococcal shock syndrome toxin (TSST-1)] Zaleska M, et al. **Med Dosw Mikrobiol** 1989;41(2):81–5 (Eng. Abstr.) (Pol)

[Usefulness of determining the level of neuron-specific enolase (NSE) in the cerebrospinal fluid as a biochemical indicator of the extent of cerebral ischemic stroke. Experimental study of the rat model of stroke] Kotwica Z, et al. **Neurol Neurochir Pol** 1989 May–Jun;23(3):198–202 (Eng. Abstr.) (Pol)

[Nerve tissue protein S 100 level in the cerebrospinal fluid as an indicator of the extent of brain damage in cerebral ischemic stroke. Experimental study of a rat model of stroke] Kotwica Z, et al. **Neurol Neurochir Pol** 1989 May–Jun;23(3):203–7 (Eng. Abstr.) (Pol)

[Modeling and specific pharmacological prevention of unfavorable effect of acute herpetic infection on the course of pregnancy, fetus and the newborn (experimental study)] Kolomiets AG, et al. **Akush Ginekol (Mosk)** 1990 May; (5):68–70 (Rus)

[Selection of the models for screening of natural substances with antineoplastic activity] Treshchalina EM, et al. **Antibiot Khimioter** 1990 Feb;35(2):26–9 (Rus)

[Morphologic and surgical indications for temporary partial occlusion of the inferior vena cava by soft clipping] Zakhar'ian AL, et al. **Arkh Anat Gistol Embriol** 1990 Mar; 98(3):5–9 (Eng. Abstr.) (Rus)

[Modelling of ventricular tachycardia against a background of an elongated Q–T interval] Shvetsov IM, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):647–9 (Eng. Abstr.) (Rus)

[Changes in the composition of the lysosomes in hepatocytes cultured in vitro in modelling pathological states] Stvolinskaia NS, et al. **Biull Eksp Biol Med** 1990 Mar; 109(3):306–8 (Eng. Abstr.) (Rus)

[Experimental substantiation of the mechanism of the development of acute poisoning after exposure to meteorological factors at pesticide-treated agricultural fields] Goncharuk EI, et al. **Gig Sanit** 1990 Mar;(3):4–7 (Eng. Abstr.) (Rus)

[Left-ventricular bypass: characteristics of homeostasis] Chilaia SM, et al. **Grud Serdechnososudistaia Khir** 1990; (1):30–4 (Eng. Abstr.) (Rus)

[Electric stimulation of skeletal muscles as the optimal method of left-ventricular bypass] Tolpekin VE, et al. **Grud Serdechnososudistaia Khir** 1990;(2):36–8 (Eng. Abstr.) (Rus)

[Changes in lipid peroxidation and the antioxidative system of the myocardium in adrenaline-induced damage of the heart] Aliev MA, et al. **Kardiologiia** 1989 Sep;29(9):77–81 (Eng. Abstr.) (Rus)

[Use of a synthetic opioid for the reversal of stress-induced damage of the myocardium and gastric mucosa in severe thermal trauma] Dvortsin GF. **Kardiologiia** 1989 Sep; 29(9):81–3 (Eng. Abstr.) (Rus)

[Subcellular basis of disorders of the contractile capacity of the heart in L-thyroxine-induced thyrotoxicosis] Karsanov NV, et al. **Kardiologiia** 1990 Feb;30(2):81–7 (Eng. Abstr.) (Rus)

[Phenomenon of adaptive stabilization of cardiac structures and their protection] Meerson FZ. **Kardiologiia** 1990 Mar; 30(3):6–12 (Eng. Abstr.) (Rus)

[Modeling of acute pancreatitis] Buianov VM, et al. **Klin Khir** 1989;(11):24–6 (Eng. Abstr.) (Rus)

[The proteolysis system and the nature of morphologic changes of the intestinal wall in acute experimental obstruction] Fesenko VP, et al. **Klin Khir** 1990;(4):26–8 (Eng. Abstr.) (Rus)

[Catalytic properties of monoamine oxidases during adaptation to altitude chamber hypoxia] Shatemirova KK, et al. **Kosm Biol Aviakosm Med** 1990 Mar–Apr;24(2):54–6 (Eng. Abstr.) (Rus)

[The experimental reproduction of catecholamine-deficient states and the problem of parkinsonism (the theoretical and practical aspects)] Voloshin MIa. **Neirofiziologiia** 1990; 22(3):401–14 (74 ref.) (Eng. Abstr.) (Rus)

[The early diagnosis, evaluation of treatment results and modelling of certain aspects of the pathogenesis of retinal dystrophy] Mironova EM, et al. **Oftalmol Zh** 1989; (8):469–73 (Eng. Abstr.) (Rus)

[Modelling of diabetes mellitus using cheating agents] Gol'dberg ED, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun; (3):81–3 (Rus)

[The effect of exogenous bradykinin on gastric motor function in an experimental model of ulcerative lesions of the antrum] Gorst VR. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):52–4 (Eng. Abstr.) (Rus)

[The reproduction of visceral ischemic shock in rabbits by constriction of the superior mesenteric artery] Levin GS, et al. **Patol Fiziol Eksp Ter** 1990 Mar–Apr;(2):43–5 (Rus)

[Method for modelling intracerebral hematomas in arterial hypertension] Romanova TP. **Patol Fiziol Eksp Ter** 1989 May-Jun;(3):80-1 **(Rus)**

[A device for modelling experimental thermal burns] Stepaniuk GI, et al. **Patol Fiziol Eksp Ter** 1990 Mar-Apr; (2):41-2 **(Rus)**

[Postradiation motor disorders in rodents as the equivalent of the clinical manifestations of a primary radiation reaction] Bokk MI, et al. **Radiobiologiia** 1990 Mar-Apr; 30(2):233-7 (Eng. Abstr.) **(Rus)**

[Experimental models of systemic scleroderma] Serakovski S, et al. **Revmatologiia (Mosk)** 1989 Jul-Sep;(3):36-46 (80 ref.) **(Rus)**

[Carbohydrate-energy metabolism of periodontal bony tissue in the artificial modelling of traumatic occlusion] Shvarts VV. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):17-9 (Eng. Abstr.) **(Rus)**

[Fatal synergism of viral-bacterial infections (a model of influenza-streptococcal infections)] Dubrovina TIa, et al. **Vestn Akad Med Nauk SSSR** 1989;(11):17-22 (Eng. Abstr.) **(Rus)**

[Phagocytosis system and resistance of mice to Western equine encephalomyelitis virus] Nesterchuk SL, et al. **Vopr Virusol** 1989 Nov-Dec;34(6):758-60 **(Rus)**

[Modelling of a combined immunodeficiency state by splenectomy and alloimmunization with lymph node antigens] Antonenko VT, et al. **Vrach Delo** 1989 Sep; (9):99-101 (Eng. Abstr.) **(Rus)**

[The modelling of a Pseudomonas aeruginosa wound process] Zhurilo AA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Feb;(2):7-10 (Eng. Abstr.) **(Rus)**

[Preliminary results of comparative studies of cerebral hemiatrophy in humans and animals] Pollak KG. **Zh Nevropatol Psikhiatr** 1989;89(10):127-9 (Eng. Abstr.) **(Rus)**

[Neurophysiologic and pathomorphologic characteristics of the development of alcoholism (experimental study)] Vorob'eva TM, et al. **Zh Nevropatol Psikhiatr** 1990; 90(2):77-84 (Eng. Abstr.) **(Rus)**

[A reversible disorder of the avoidance reaction as an experimental model for the study of the action of psychotropic preparations on higher nervous activity] Inozemtsev AN, et al. **Zh Vyssh Nerv Deiat** 1989 Jul-Aug; 39(4):764-6 **(Rus)**

[The development of pathological forms of behavior in submissive male C57BL/6J mice during agonistic zoosocial interactions. A possible model of depression?] Kudriavtseva NN, et al. **Zh Vyssh Nerv Deiat** 1989 Nov-Dec; 39(6):1134-41 (Eng. Abstr.) **(Rus)**

[A biorhythmologic approach to evaluating forced swimming as an experimental model of a "depressive" state] Shchetinin EV, et al. **Zh Vyssh Nerv Deiat** 1989 Sep-Oct; 39(5):958-64 (Eng. Abstr.) **(Rus)**

[The role of neurochemical mechanisms of the dorsal raphe nucleus in various models of anxiety states in rats] Talalaenko AN. **Zh Vyssh Nerv Deiat** 1989 Nov-Dec; 39(6):1124-8 (Eng. Abstr.) **(Rus)**

[Present methods of inducing calcinosis and atherosclerosis and perspectives of pharmacologic prevention] Kovalčík V, et al. **Bratisl Lek Listy** 1989 Sep;90(9):649-57 (98 ref.) (Eng. Abstr.) **(Slo)**

[Methods in experimental models of heart damage using reactive forms of oxygen] Ravingerová T, et al. **Cesk Fysiol** 1989;38(6):513-6 **(Slo)**

[Animal experimentation and its repercussion on human health] Reyes-Fuentes A, et al. **Gac Med Mex** 1990 Mar-Apr;126(2):116-20 (28 ref.) **(Spa)**

DISEASE OUTBREAKS

see related
COMMUNICABLE DISEASES
SPACE-TIME CLUSTERING

Listeriosis in Austria--report of an outbreak in 1986. Allerberger F, et al. **Acta Microbiol Hung** 1989; 36(2-3):149-52

Further results and experiences with phage-typing of Listeria. Ortel S. **Acta Microbiol Hung** 1989;36(2-3):219-24

A rubella epidemic in Sasebo, Japan in 1987, with various complications. Moriuchi H, et al. **Acta Paediatr Jpn Overseas Ed** 1990 Feb;32(1):67-75

The outbreak of poliomyelitis in Finland in 1984-1985: significance of antigenic variation of type 3 polioviruses and site specificity of antibody responses in antipolio immunizations. Hovi T. **Adv Virus Res** 1989;37:243-75 (52 ref.)

Epidemic Norwegian scabies in a geriatric unit. Hopper AH, et al. **Age Ageing** 1990 Mar;19(2):125-7

Networks of sexual contacts: implications for the pattern of spread of HIV. Gupta S, et al. **AIDS** 1989 Dec;3(12):807-17

AIDS and public policy. Osborn JE. **AIDS** 1989;3 Suppl 1:S297-300 (19 ref.)

Review of AIDS and HIV infection: global epidemiology and statistics. Sato PA, et al. **AIDS** 1989;3 Suppl 1:S301-7 (39 ref.)

The epidemic of AIDS and HIV-1 infection among heterosexuals in New York City. Stoneburner RL, et al. **AIDS** 1990 Feb;4(2):99-106 (53 ref.)

AIDS 1989. Epidemiology: overview. Winkelstein W Jr, et al. **AIDS** 1989;3 Suppl 1:S51-2

Transmission of chickenpox in a school setting prior to the observed exanthem. Brunell PA. **Am J Dis Child** 1989 Dec; 143(12):1451-2

Crack cocaine. A new danger for children [editorial] Heagarty MC. **Am J Dis Child** 1990 Jul;144(7):756-7

The use of hygiene, cohorting, and antimicrobial therapy to control an outbreak of shigellosis. Hoffman RE, et al. **Am J Dis Child** 1990 Feb;144(2):219-21

Invasive disease due to multiply resistant Streptococcus pneumoniae in a Houston, Tex, day-care center. Rauch AM, et al. **Am J Dis Child** 1990 Aug;144(8):923-7

Re: "An autopsy of epidemiologic methods: the case of "poppers" in the early epidemic of the acquired immunodeficiency syndrome (AIDS)" [letter; comment] **Am J Epidemiol** 1990 Jan;131(1):195-200 Comment on: Am J Epidemiol 1989 Mar;129(3):455-7.

National Conference on Clustering of Health Events. Atlanta, Georgia, February 16-17, 1989. **Am J Epidemiol** 1990 Jul; 132(1 Suppl):S1-202

Epidemic bacteremia due to Acinetobacter baumannii in five intensive care units. Beck-Sagué CM, et al. **Am J Epidemiol** 1990 Oct;132(4):723-33

Shigellosis outbreaks at summer camps for the mentally retarded in New York State. Coles FB, et al. **Am J Epidemiol** 1989 Nov;130(5):966-75

Epidemic dengue 1 in Brazil, 1986: evaluation of a clinically based dengue surveillance system. Dietz VJ, et al. **Am J Epidemiol** 1990 Apr;131(4):693-701

A statistical method for evaluating suicide clusters and implementing cluster surveillance. Gibbons RD, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S183-91

The epidemiologic field investigation: science and judgment in public health practice. Goodman RA, et al. **Am J Epidemiol** 1990 Jul;132(1):9-16

Foodborne Snow Mountain agent gastroenteritis with secondary person-to-person spread in a retirement community. Gordon SM, et al. **Am J Epidemiol** 1990 Apr; 131(4):702-10

Understanding mass media coverage of disease clusters. Greenberg M, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S192-5

A school-based measles outbreak: the effect of a selective revaccination policy and risk factors for vaccine failure. Hutchins SS, et al. **Am J Epidemiol** 1990 Jul;132(1):157-68

Dengue fever in a Puerto Rican community. Neff JM, et al. **Am J Epidemiol** 1967 Jul;86(1):162-84

Counterpoint from a cluster buster. Neutra RR. **Am J Epidemiol** 1990 Jul;132(1):1-8

Responding to community-identified suicide clusters: statistical verification of the cluster is not the primary issue. O'Carroll PW, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S196-202

A statewide outbreak of Escherichia coli 0157:H7 infections in Washington State. Ostroff SM, et al. **Am J Epidemiol** 1990 Aug;132(2):239-47

A waterborne epidemic of gastroenteritis in Madera, California. Renteln HA, et al. **Am J Epidemiol** 1967 Jul; 86(1):1-10

The public health importance of clusters: a note from the Centers for Disease Control. Rothenberg RB, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S3-5

A sobering start for the cluster busters' conference. Rothman KJ. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S6-13

Epidemic cholera in West Africa: the role of food handling and high-risk foods. St. Louis ME, et al. **Am J Epidemiol** 1990 Apr;131(4):719-28

Investigation of an outbreak of Acinetobacter calcoaceticus var. anitratus infections in an adult intensive care unit. Contant J, et al. **Am J Infect Control** 1990 Aug;18(4):288-91

Q fever in animal laboratory workers: an outbreak and its investigation. Graham CJ, et al. **Am J Infect Control** 1989 Dec;17(6):345-8

Parainfluenza outbreak in retardation facility [letter] Jackson BM, et al. **Am J Infect Control** 1990 Apr;18(2):128-9

Outbreak of multiply resistant Staphylococcus aureus in a pediatric intensive care unit after consolidation with a surgical intensive care unit. Ribner BS, et al. **Am J Infect Control** 1989 Oct;17(5):244-9

Measles epidemic spreads, straining nursing services [news] **Am J Nurs** 1990 Jul;90(7):67, 70

Recovery of hepatitis A virus from a water supply responsible for a common source outbreak of hepatitis A. Bloch AB, et al. **Am J Public Health** 1990 Apr;80(4):428-30

Impact of the human immunodeficiency virus epidemic on mortality trends in young men, United States. Buehler JW, et al. **Am J Public Health** 1990 Sep;80(9):1080-6

Restaurant inspections may not predict outbreaks of foodborne illness [letter; comment] Hatfield TH. **Am J Public Health** 1989 Dec;79(12):1678-9 Comment on: Am J Public Health 1989 May;79(5):586-90.

Food-borne outbreak of Giardia lamblia. Porter JD, et al. **Am J Public Health** 1990 Oct;80(10):1259-60

A rural outbreak of Legionnaires' disease linked to visiting a retail store. Redd SC, et al. **Am J Public Health** 1990 Apr;80(4):431-4

Human cryptosporidiosis associated with an epizootic in calves. Reif JS, et al. **Am J Public Health** 1989 Nov; 79(11):1528-30

A multifocal outbreak of hepatitis A traced to commercially distributed lettuce. Rosenblum LS, et al. **Am J Public Health** 1990 Sep;80(9):1075-9

An outbreak of furunculosis among high school athletes [see comments] Sosin DM, et al. **Am J Sports Med** 1989 Nov-Dec;17(6):828-32 Comment in: Am J Sports Med 1990 Mar-Apr;18(2):219-20.

An epidemic of Oroya fever in the Peruvian Andes. Gray GC, et al. **Am J Trop Med Hyg** 1990 Mar;42(3):215-21

Dengue hemorrhagic fever in Cuba, 1981: a retrospective seroepidemiologic study. Guzmán MG, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):179-84

Transmission of Plasmodium vivax malaria in San Diego County, California, 1986. Maldonado YA, et al. **Am J Trop Med Hyg** 1990 Jan;42(1):3-9

An outbreak of human Semliki Forest virus infections in Central African Republic. Mathiot CC, et al. **Am J Trop Med Hyg** 1990 Apr;42(4):386-93

Leptospirosis in Chonbuk Province of Korea in 1987: a study of 93 patients. Park SK, et al. **Am J Trop Med Hyg** 1989 Sep;41(3):345-51

Outbreak of hemorrhagic fever with renal syndrome among U.S. Marines in Korea. Pon E, et al. **Am J Trop Med Hyg** 1990 Jun;42(6):612-9

Lethal paralytic shellfish poisoning in Guatemala. Rodrigue DC, et al. **Am J Trop Med Hyg** 1990 Mar;42(3):267-71

Epidemic non-A non-B hepatitis in urban Karachi, Pakistan. Smego RA Jr, et al. **Am J Trop Med Hyg** 1988 May; 38(3):628-32

Shigellosis associated with recreational water contact in Los Angeles County. Sorvillo FJ, et al. **Am J Trop Med Hyg** 1988 May;38(3):613-7

An epidemic of Vibrio cholerae el tor Inaba resistant to several antibiotics with a conjugative group C plasmid coding for type II dihydrofolate reductase in Thailand. Tabtieng R, et al. **Am J Trop Med Hyg** 1989 Dec; 41(6):680-6

Attitudes of BCLS instructors about mouth-to-mouth resuscitation during the AIDS epidemic. Ornato JP, et al. **Ann Emerg Med** 1990 Feb;19(2):151-6

Tuberculosis control and the AIDS epidemic in developing countries. Pitchenik AE. **Ann Intern Med** 1990 Jul 15; 113(2):89-91

First human infestations in Africa with larvae of American screw-worm, Cochliomyia hominivorax Coq. Gabaj MM, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):553-4

Seroepidemiological studies on five outbreaks of trichinellosis in southern Spain. Rodriguez-Osorio M, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):181-4

Hepatitis A in Mauritius: an apparent transition from endemic to epidemic transmission patterns. Shaw FE Jr, et al. **Ann Trop Med Parasitol** 1989 Apr;83(2):179-85

Epidemiology of Rhodesian sleeping sickness in the Lambwe Valley, Kenya. Wellde BT, et al. **Ann Trop Med Parasitol** 1989 Aug;83 Suppl 1:43-62

Diagnosis of Rhodesian sleeping sickness in the Lambwe Valley (1980-1984). Wellde BT, et al. **Ann Trop Med Parasitol** 1989 Aug;83 Suppl 1:63-71

Acute organophosphorus food poisoning caused by contaminated green leafy vegetables. Goh KT, et al. **Arch Environ Health** 1990 May-Jun;45(3):180-4

Pesticide food poisoning from contaminated watermelons in California, 1985. Goldman LR, et al. **Arch Environ Health** 1990 Jul-Aug;45(4):229-36

Aldicarb food poisonings in California, 1985-1988: toxicity estimates for humans. Goldman LR, et al. **Arch Environ Health** 1990 May-Jun;45(3):141-7

Epidemics of tuberculosis. Lincoln EM. **Arch Environ Health** 1967 Mar;14(3):473-6

Gastroenteritis from an orange juice preparation. I. Clinical and epidemiological aspects. Tabershaw IR, et al. **Arch Environ Health** 1967 Jul;15(1):72-7

Maternal influenza in the etiology of schizophrenia. Kendell RE, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):878-82

Doxycycline prophylaxis for shigellosis. Ben-Yehuda O, et al. **Arch Intern Med** 1990 Jan;150(1):209-12

An outbreak of hepatitis B associated with jet injections in a weight reduction clinic. Canter J, et al. **Arch Intern Med** 1990 Sep;150(9):1923-7

Varicella outbreaks in Army recruits from Puerto Rico. Varicella susceptibility in a population from the tropics. Longfield JN, et al. **Arch Intern Med** 1990 May; 150(5):970-3

Medical students as sources of rubella and measles outbreaks [see comments] Poland GA, et al. **Arch Intern Med** 1990 Jan;150(1):44-6 Comment in: Arch Intern Med 1990 Jan;150(1):25-6.

Mumps transmission in hospitals [see comments] Wharton M, et al. **Arch Intern Med** 1990 Jan;150(1):47-9 Comment in: Arch Intern Med 1990 Jan;150(1):25-6.

Fifth day fits in the newborn. North KN, et al. **Aust Paediatr J** 1989 Oct;25(5):284-7

Studies on fermented corn flour poisoning in rural areas of China. I. Epidemiology, Clinical Manifestations, and Pathology. Meng Z, et al. **Biomed Environ Sci** 1988 Jun; 1(1):101-4

Studies on fermented corn flour food poisoning in rural areas of China. II. Isolation and identification of causal microorganisms. Meng Z, et al. **Biomed Environ Sci** 1988 Jun;1(1):105-14

AIDS in Thailand [news] Anderson J. **BMJ** 1990 Feb 17; 300(6722):415-6

Evolution of AIDS policy in the Soviet Union. II. The AIDS epidemic and emergency measures. Medvedev ZA. **BMJ** 1990 Apr 7;300(6729):932-4 (22 ref.)

Crisis in our hospital kitchens: ancillary staffing levels during an outbreak of food poisoning in a long stay hospital [see comments] Pollock AM, et al. **BMJ** 1990 Feb 10;

300(6721):383–5 Comment in: BMJ 1990 Mar 3;300(6724):612.
Pneumonia associated with contact with cyanobacteria. Turner PC, et al. BMJ 1990 Jun 2;300(6737):1440–1
Manganese induced parkinsonism: an outbreak due to an unrepaired ventilation control system in a ferromanganese smelter. Wang JD, et al. Br J Ind Med 1989 Dec; 46(12):856–9
An outbreak of acute haemorrhagic conjunctivitis in Kaduna, Nigeria. Babalola OE, et al. Br J Ophthalmol 1990 Feb; 74(2):89–92
Changing epidemiology and clinical aspects of hepatitis A. Forbes A, et al. Br Med Bull 1990 Apr;46(2):303–18 (76 ref.)
Konzo, an epidemic upper motor neuron disease studied in Tanzania. Howlett WP, et al. Brain 1990 Feb;113 (Pt 1):223–35
Problem behaviors and AIDS. Hein K.
Bull N Y Acad Med 1989 Mar;65(3):356–66
Dengue serologic survey of schoolchildren in Rio de Janeiro, Brazil, in 1986 and 1987. Figueiredo LT, et al.
Bull Pan Am Health Organ 1990;24(2):217–25
Dengue haemorrhagic fever/dengue shock syndrome: lessons from the Cuban epidemic, 1981. Kouri GP, et al.
Bull World Health Organ 1989;67(4):375–80
Herpes gladiatorum at a high school wrestling camp–United States. Can Dis Wkly Rep 1990 Mar 10;16(10):46–8 (Eng, Fre)
Legionnaires' disease outbreak associated with a grocery store mist machine—United States. Can Dis Wkly Rep 1990 Mar 31;16(13):60–2 (Eng, Fre)
Two outbreaks of Clostridium perfringens food poisoning–Ontario. Can Dis Wkly Rep 1990 Mar 3; 16(9):40–1 (Eng, Fre)
Influenza outbreaks in long-term care facilities, 1988–1989 season. Ellis E. Can Dis Wkly Rep 1989 Dec 2; 15(48):239–41 (Eng, Fre)
Pseudomonas aeruginosa septicemia related to structural damage to hemodialyzer membranes following disinfection with monoxychlorosene—Quebec. Ishak M, et al.
Can Dis Wkly Rep 1990 Feb 10;16(6):27–8 (Eng, Fre)
Influenza outbreak in the United Kingdom. Mackenzie SG, et al. Can Dis Wkly Rep 1989 Dec 16;15(50):252–3 (Eng, Fre)
A school outbreak of hepatitis A in southwestern Ontario. Naus M, et al. Can Dis Wkly Rep 1989 Nov 11;15(45):225–8 (Eng, Fre)
Low measles vaccine failure in a school outbreak—Newfoundland. Ng T, et al.
Can Dis Wkly Rep 1990 Mar 24;16(12):53–7 (Eng, Fre)
Outbreak of Escherichia coli 0157:H7 in a nursing home—Ontario. Panaro L, et al. Can Dis Wkly Rep 1990 May 12;16(19):90–2 (Eng, Fre)
Foodborne illness due to Salmonella panama—Saskatchewan. Sales A, et al. Can Dis Wkly Rep 1990 Mar 31;16(13):59–60 (Eng, Fre)
Meningococcemia in a group of Canadian students on a European trip. Schaaf L, et al. Can Dis Wkly Rep 1989 Nov 18;15(46):229–31 (Eng, Fre)
Two influenza A outbreaks in long-term care facilities—Alberta. Trepanier K. Can Dis Wkly Rep 1989 Dec 2;15(48):241–4 (Eng, Fre)
Results from an international survey of Kawasaki disease in 1979–82. Cook DH, et al. Can J Cardiol 1989 Nov–Dec; 5(8):389–94
Intravenous drug use and hepatitis A: an investigation of an outbreak. Jin A, et al. Can J Public Health 1990 Jan–Feb; 81(1):79–81
Notes on an epidemic of acute glomerulonephritis in Hawaii. Bell TD. Clin Pediatr (Phila) 1970 Oct;9(10):577–9
Communicable disease report January to March 1989. From the PHLS Communicable Disease Surveillance Centre.
Community Med 1989 Aug;11(3):255–9
The dynamics of HIV spread: a computer simulation model. Leslie WD, et al. Comput Biomed Res 1990 Aug; 23(4):380–401
Epidemics and the library [editorial] McCarthy JT. Cutis 1990 Jun;45(6):392
Frequency of Salmonella typhimurium the year after a massive outbreak. Harris AA, et al.
Diagn Microbiol Infect Dis 1990 Jan–Feb;13(1):25–30
Salmonella typhimurium outbreak at Kenyatta National Hospital (1985). Mirza NB, et al. East Afr Med J 1989 Jul;66(7):453–7
Aetiology of diarrhoea in pre-term neonates at Kenyatta National Hospital nursery, Nairobi, Kenya. Mutanda LN, et al. East Afr Med J 1990 Apr;67(4):223–30
Measles in Chimanimani Zimbabwe. Tumwine JK.
East Afr Med J 1989 Aug;66(8):531–4
Dengue hemorrhagic fever in Venezuela. Epidemiol Bull 1990;11(2):7–9
Paralytic shellfish poisoning (red tide). Epidemiol Bull 1990; 11(2):9
Dengue in the Americas. 1980–1987. Pinheiro FP.
Epidemiol Bull 1989;10(1):1–8 (47 ref.)
Maintenance of cooling towers following two outbreaks of Legionnaires' disease in a city. Bhopal RS, et al.
Epidemiol Infect 1990 Feb;104(1):29–38
Staphylococcal food poisoning from sheep milk cheese. Bone FJ, et al. Epidemiol Infect 1989 Dec;103(3):449–58
Investigation of an outbreak of hepatitis A simplified by salivary antibody testing. Bull AR, et al.
Epidemiol Infect 1989 Oct;103(2):371–6
Serologically proven acute rubella infection in patients with clinical diagnosis of dengue. Bustos J, et al.
Epidemiol Infect 1990 Apr;104(2):297–302
Evaluation of numerical analysis of SDS–PAGE of protein patterns for typing Enterobacter cloacae. Costas M, et al.
Epidemiol Infect 1989 Oct;103(2):265–74
Investigation of a pseudo–outbreak of 'Pseudomonas thomasii' in a special–care baby unit by numerical analysis of SDS–PAGE protein patterns. Costas M, et al.
Epidemiol Infect 1990 Aug;105(1):127–37
Comparison of SDS–PAGE protein patterns with other typing methods for investigating the epidemiology of 'Klebsiella aerogenes'. Costas M, et al. Epidemiol Infect 1990 Jun;104(3):455–65
A national outbreak of Salmonella typhimurium DT 124 caused by contaminated salami sticks. Cowden JM, et al.
Epidemiol Infect 1989 Oct;103(2):219–25
Serotype–specific outbreak of group B meningococcal disease in Iquique, Chile. Cruz C, et al. Epidemiol Infect 1990 Aug; 105(1):119–26
An outbreak of paratyphoid fever in the UK associated with a fish–and–chip shop. Francis S, et al. Epidemiol Infect 1989 Dec;103(3):445–8
Concurrent outbreaks of influenza and parvovirus B19 in a boys' boarding school. Grilli EA, et al.
Epidemiol Infect 1989 Oct;103(2):359–69
Phenotypic variation amongst genotypically homogeneous Legionella pneumophila serogroup 1 isolates: implications for the investigation of outbreaks of Legionnaires' disease. Harrison TG, et al. Epidemiol Infect 1990 Apr; 104(2):171–80
Typing tools for the investigation of epidemic fungal infection. Howell SA, et al. Epidemiol Infect 1990 Aug; 105(1):1–9 (54 ref.)
An epidemiological study of an outbreak of Q fever in a secondary school. Jorm LR, et al. Epidemiol Infect 1990 Jun;104(3):467–77
Two outbreaks of Legionnaires' disease in Bolton Health District. Mitchell E, et al. Epidemiol Infect 1990 Apr; 104(2):159–70
Legionnaires' disease and the sick–building syndrome. O'Mahony M, et al. Epidemiol Infect 1989 Oct; 103(2):285–92
An outbreak of foodborne botulism associated with contaminated hazelnut yoghurt. O'Mahony M, et al.
Epidemiol Infect 1990 Jun;104(3):389–95
An outbreak of Salmonella saint–paul infection associated with beansprouts. O'Mahony M, et al. Epidemiol Infect 1990 Apr;104(2):229–35
The Stafford outbreak of Legionnaires' disease. O'Mahony MC, et al. Epidemiol Infect 1990 Jun;104(3):361–80
Chlamydia pneumoniae, strain TWAR, as the cause of an outbreak in a boys' school previously called psittacosis. Pether JV, et al. Epidemiol Infect 1989 Oct;103(2):395–400
Esterase electrophoresis: a molecular tool for studying the epidemiology of Branhamella catarrhalis nosocomial infection. Picard B, et al. Epidemiol Infect 1989 Dec; 103(3):547–54
Restricted variability of a 17 nucleotide stretch within the 5'-noncoding region of poliovirus genome. Pöyry T, et al. Epidemiol Infect 1989 Dec;103(3):671–83
Application of a new phagetyping scheme to campylobacters isolated during outbreaks. Salama SM, et al.
Epidemiol Infect 1990 Jun;104(3):405–11
A christening party outbreak of haemorrhagic colitis and haemolytic uraemic syndrome associated with Escherichia coli O 157.H7. Salmon RL, et al. Epidemiol Infect 1989 Oct;103(2):249–54
An outbreak of waterborne cryptosporidiosis caused by post–treatment contamination. Smith HV, et al.
Epidemiol Infect 1989 Dec;103(3):703–15
Influenza mortality and excess deaths in the elderly, 1967–82. Sprenger MJ, et al. Epidemiol Infect 1989 Dec; 103(3):633–41
A large outbreak of Salmonella enteritidis phage type 4 associated with eggs from overseas. Stevens A, et al.
Epidemiol Infect 1989 Dec;103(3):425–33
Plasmid profile typing can be used to subdivide phage–type 49 of Salmonella typhimurium in outbreak investigations. Threlfall EJ, et al. Epidemiol Infect 1990 Apr;104(2):243–51
Outbreak of schistosomiasis in a tourist group returning from Mali [letter] Garcés JM, et al.
Eur J Clin Microbiol Infect Dis 1990 Jan;9(1):58
Application of a capture enzyme immunoassay in an outbreak of waterborne giardiasis in the United Kingdom. Green E, et al. Eur J Clin Microbiol Infect Dis 1990 Jun;9(6):424–8
Hepatitis A immunity in food–handling occupations [letter] Köster D, et al. Eur J Clin Microbiol Infect Dis 1990 Apr; 9(4):304–5
Asymptomatic Yerainia enterocolitica infections during an outbreak in a day–nursery [letter] Van Ossel C, et al.
Eur J Clin Microbiol Infect Dis 1990 Feb;9(2):148
A new influenza surveillance system in France: the Ile–de–France "GROG". 1. Principles and methodology. Hannoun C, et al. Eur J Epidemiol 1989 Sep;5(3):285–93
Epidemics due to pesticide contamination of food. Ferrer A, et al. Food Addit Contam 1989;6 Suppl 1:S95–8 (35 ref.)
Biopsychosocial approach to the human immunodeficiency virus epidemic. A clinician's primer. Cohen MA.
Gen Hosp Psychiatry 1990 Mar;12(2):98–123 (146 ref.)
Hawaii and the AIDS epidemic. Uzych L.
Hawaii Med J 1990 Jul;49(7):233–4
Outbreak of malaria in Banda PHC of District Shahjahanpur (U.P.). Prasad RN, et al. Indian J Malariol 1990 Mar; 27(1):47–50
Persistent malaria transmission in Kundam block, district Jabalpur (M.P.). Singh N, et al. Indian J Malariol 1989 Mar;26(1):1–7
Outbreak of Salmonella worthington meningitis & septicaemia in a hospital at Chandigarh (north India). Ayyagari A, et al. Indian J Med Res 1990 Jan;91:15–7
Cholera epidemic in Solapur during July–August, 1988. Pule RP, et al. Indian J Med Res 1990 Jan;91:24–6
Coxsackie virus A 24 variant as the etiological agent of the acute haemorrhagic conjunctivitis epidemic at Vellore, in 1986. Ponnuraj EM, et al. Indian J Med Res 1989 Sep; 89:283–6
Clinical, histopathologic & immunologic features of cutaneous lesions in acute meningococcaemia. Ramesh V, et al. Indian J Med Res 1990 Jan;91:27–32
Study of an outbreak of epidemic conjunctivitis in Delhi in 1986. Kishore J, et al. Indian J Pathol Microbiol 1989 Oct; 32(4):266–9
Observations on human bone–marrow for Leishmania donovani. Rajendran P, et al. Indian J Pathol Microbiol 1989 Oct;32(4):282–5
Measles in India: epidemiology and control. Narain JP, et al. Indian J Pediatr 1989 Jul–Aug;56(4):463–72 (42 ref.)
Salmonella senftenberg outbreak in a neonatal unit. Joseph AT, et al. Indian Pediatr 1990 Feb;27(2):157–60
Investigation of a Streptococcus viridans pseudobacteremia epidemic at a university teaching hospital. Church DL, et al. Infect Control Hosp Epidemiol 1989 Sep;10(9):416–21
Pseudoepidemic of Rhodotorula rubra in patients undergoing fiberoptic bronchoscopy. Hoffmann KK, et al.
Infect Control Hosp Epidemiol 1989 Nov;10(11):511–4
Nosocomial outbreak of systemic candidosis associated with parenteral nutrition. Moro ML, et al.
Infect Control Hosp Epidemiol 1990 Jan;11(1):27–35
Control of epidemic methicillin–resistant Staphylococcus aureus. Murray–Leisure KA, et al.
Infect Control Hosp Epidemiol 1990 Jul;11(7):343–50
Methicillin–resistant Staphylococcus aureus outbreak at a Veterans' Affairs Medical Center: importance of carriage of the organism by hospital personnel. Reboli AC, et al.
Infect Control Hosp Epidemiol 1990 Jun;11(6):291–6
Enterobacter sakazakii infections in neonates associated with intrinsic contamination of a powdered infant formula. Simmons BP, et al. Infect Control Hosp Epidemiol 1989 Sep;10(9):398–401
Molecular analysis of nosocomial epidemics. John JF Jr.
Infect Dis Clin North Am 1989 Dec;3(4):683–700 (78 ref.)
Nosocomial infections due to Serratia marcescens—clinical findings, antibiotic susceptibility patterns and fine typing. Bollmann R, et al. Infection 1989 Sep–Oct;17(5):294–300
Spring eruption of the ears. Requena L, et al.
Int J Dermatol 1990 May;29(4):284–6
Foodborne botulism: an international outbreak. Slater PE, et al. Int J Epidemiol 1989 Sep;18(3):693–6
An epidemic of poliomyelitis in southern Kerala. Sulekha C, et al. Int J Epidemiol 1990 Mar;19(1):177–81
Analysis of Listeria monocytogenes by multilocus enzyme electrophoresis and application of the method to epidemiologic investigations. Bibb WF, et al.
Int J Food Microbiol 1989 Jun;8(3):233–9
Present state of knowledge on staphylococcal intoxication. Genigeorgis CA. Int J Food Microbiol 1989 Dec; 9(4):327–60 (256 ref.)
The role of hens' eggs in outbreaks of salmonellosis in north Spain. Perales I, et al. Int J Food Microbiol 1989 May; 8(2):175–80
Analytical methods for Bacillus cereus and other Bacillus species. Shinagawa K. Int J Food Microbiol 1990 Mar; 10(2):125–41 (40 ref.)
Biomedical potential for symptom choice in Koro. Chowdhury AN. Int J Soc Psychiatry 1989 Winter; 35(4):329–32
An outbreak of Salmonella reactive arthritis in Northern Ireland. Kondowe GB, et al. Ir J Med Sci 1989 Nov; 158(11):274–7
Acute epidemic aluminium osteomalacia secondary to water supply contamination. O'Brien AA, et al. Ir J Med Sci 1990 Mar;159(3):71–3
Identification and partial characterization of the soybean–dust allergens involved in the Barcelona asthma epidemic. Rodrigo MJ, et al. J Allergy Clin Immunol 1990 Apr;85(4):778–84
An outbreak of suicide and suicidal behavior in a high school. Brent DA, et al. J Am Acad Child Adolesc Psychiatry 1989 Nov;28(6):918–24
Aeromonas hydrophila diarrhea in a long–term care setting. Bloom HG, et al. J Am Geriatr Soc 1990 Jul;38(7):804–6
Salmonella outbreak in a nursing home. Choi M, et al.
J Am Geriatr Soc 1990 May;38(5):531–4
The identification, typing and fingerprinting of Salmonella: laboratory aspects and epidemiological applications. Threlfall EJ, et al. J Appl Bacteriol 1990 Jan;68(1):5–16 (94 ref.)
Acute renal failure due to acute diarrhoeal diseases. Kumar SS, et al. J Assoc Physicians India 1990 Feb;38(2):164–6
Single–source outbreak of Candida tropicalis complicating coronary bypass surgery [see comments] Isenberg HD, et al. J Clin Microbiol 1989 Nov;27(11):2426–8 Comment in:

J Clin Microbiol 1990 May;28(5):1086–7.
Use of plasmid analysis and determination of aminoglycoside-modifying enzymes to characterize isolates from an outbreak of methicillin-resistant Staphylococcus aureus. Licitra CM, et al. J Clin Microbiol 1989 Nov; 27(11):2535–8
Acinetobacter baumannii serotyping for delineation of outbreaks of nosocomial cross-infection. Traub WH. J Clin Microbiol 1989 Dec;27(12):2713–6
Epidemic of Serratia marcescens bacteremia in a cardiac intensive care unit. Villarino ME, et al. J Clin Microbiol 1989 Nov;27(11):2433–6
Lead poisoning: clinical, biochemical, and haematological aspects of a recent outbreak. Pagliuca A, et al. J Clin Pathol 1990 Apr;43(4):277–81
Seroepidemiological study of Japanese encephalitis in Dimapur, Nagaland. Angami K, et al. J Commun Dis 1989 Jun;21(2):87–95
An outbreak of meningitis caused by Neisseria meningitidis Group A. Annapurna ME, et al. J Commun Dis 1989 Mar; 21(1):24–6
Bacteriological study of drinking water during epidemic of cholera in Delhi. Baveja CP, et al. J Commun Dis 1989 Mar;21(1):59–61
Meningococcal meningitis in an industrial area adjoining Surat City—some clinico-epidemiological aspects. Bhavsar BS, et al. J Commun Dis 1989 Jun;21(2):96–106
Enterotoxigenic Escherichia coli from an outbreak with cholerigenic syndromes of gastroenteritis. Kulshrestha SB, et al. J Commun Dis 1989 Dec;21(4):313–7
Outbreak of cholera in Berasia block of Bhopal District in Madhya Pradesh. Patnaik SK, et al. J Commun Dis 1989 Jun;21(2):123–8
Clinico-epidemiological profiles of post-kala-azar dermal leishmaniasis in Varanasi. Rai RN, et al. J Commun Dis 1989 Sep;21(3):214–7
Concerns of microbial pathogens in association with dairy foods. Donnelly CW. J Dairy Sci 1990 Jun;73(6):1656–61 (28 ref.)
An outbreak of food poisoning in a workers' camp in Saudi Arabia caused by Salmonella minnesota. al-Ghamdi M, et al. J Diarrhoeal Dis Res 1989 Mar-Jun;7(1–2):18–20
An investigation of a cholera epidemic in Butiama village of the Mara Region, Tanzania. Killewo JZ, et al. J Diarrhoeal Dis Res 1989 Mar-Jun;7(1–2):13–7
An outbreak of shigellosis in central India: higher death rate in post-measles shigellosis [letter] Mathur R, et al. J Diarrhoeal Dis Res 1989 Mar-Jun;7(1–2):28–9
Epidemiology in search of infectious diseases: methods in outbreak investigation. Palmer SR. J Epidemiol Community Health 1989 Dec;43(4):311–4 (26 ref.)
AIDS: the HIV epidemic. A time of transition. Sims J, et al. J Fla Med Assoc 1989 Aug;76(8):715–9
Nosocomial outbreaks due to amikacin-resistant tobramycin-sensitive Acinetobacter species: correlation with amikacin usage. Buisson Y, et al. J Hosp Infect 1990 Jan;15(1):83–93
An outbreak of multiply resistant Pseudomonas aeruginosa in a neonatal unit: plasmid pattern analysis. Garcia DC, et al. J Hosp Infect 1989 Aug;14(2):99–105
Epidemic iatrogenic Acinetobacter spp. meningitis following administration of intrathecal methotrexate. Kelkar R, et al. J Hosp Infect 1989 Oct;14(3):233–43
Aspergillus endocarditis after open heart surgery: an epidemiological investigation. Mehta G. J Hosp Infect 1990 Apr;15(3):245–53
An outbreak of viral hepatitis B associated with transfer factor administration. Janout V, et al. J Hyg Epidemiol Microbiol Immunol 1990;34(1):31–6
Implications of the Edinburgh AIDS epidemic for the United Kingdom. Brettle RP. J Infect 1990 May;20(3):215–7
Diphtheria in Stockholm, with a theory concerning transmission. Christenson B, et al. J Infect 1989 Sep; 19(2):177–83
An outbreak of pemphigus neonatorum. Dancer SJ, et al. J Infect 1990 Jan;20(1):73–82
Botulism [published erratum appears in J Infect 1990 May;20(3):273] Dunbar EM. J Infect 1990 Jan;20(1):1–3 (8 ref.)
The presence of M proteins in outbreak strains of Streptococcus equisimilis T-type 204. Efstratiou A, et al. J Infect 1989 Sep;19(2):105–11
Person-to-person transmission of cholera in a psychiatric hospital. Goh KT, et al. J Infect 1990 May;20(3):193–200
Group A meningococcal disease in England associated with the Haj. Jones DM, et al. J Infect 1990 Jul;21(1):21–5
Reports of clinical hepatitis A from Public Health and hospital microbiology laboratories to the PHLS Communicable Disease Surveillance Centre during the period 1980–1988. Polakoff S. J Infect 1990 Jul;21(1):111–7
Human listeriosis in Denmark 1981–1987 including an outbreak November 1985–March 1987. Samuelsson S, et al. J Infect 1990 May;20(3):251–9
Adhesion to cells in culture and plasmid profiles of enteropathogenic Escherichia coli isolated from outbreaks and sporadic cases of infant diarrhoea. Scotland SM, et al. J Infect 1989 Nov;19(3):237–49
Incidence of Salmonella enteritidis in Spain [letter] Usera M, et al. J Infect 1990 Jan;20(1):86–7
Fatal echovirus 7 infection during an outbreak in a special care baby unit. Wreghitt TG, et al. J Infect 1989 Nov; 19(3):229–36
A common-source outbreak of Staphylococcus epidermidis infections among patients undergoing cardiac surgery. Boyce JM, et al. J Infect Dis 1990 Mar;161(3):493–9
Role of air sampling in investigation of an outbreak of legionnaires' disease associated with exposure to aerosols from an evaporative condenser. Breiman RF, et al. J Infect Dis 1990 Jun;161(6):1257–61
A cluster of Edwardsiella tarda infection in a day-care center in Florida [letter] Desenclos JC, et al. J Infect Dis 1990 Sep;162(3):782
Investigation of an outbreak of adult diarrhea rotavirus in China. Fang ZY, et al. J Infect Dis 1989 Dec;160(6):948–53
Evaluation of serologic tests for diagnosis of anthrax after an outbreak of cutaneous anthrax in Paraguay. Harrison LH, et al. J Infect Dis 1989 Oct;160(4):706–10
Nosocomial transmission of tuberculosis associated with a draining abscess. Hutton MD, et al. J Infect Dis 1990 Feb; 161(2):286–95
Rapid diagnosis of Mycoplasma pneumoniae infection: clinical evaluation of a commercial probe test. Kleemola SR, et al. J Infect Dis 1990 Jul;162(1):70–5
Development of long-term specific cellular immunity after acute Blastomyces dermatitidis infection: assessments following a large point-source outbreak in Wisconsin. Klein BS, et al. J Infect Dis 1990 Jan;161(1):97–101
Listeria "epidemic" overinterpreted [letter; comment] Louria DB, et al. J Infect Dis 1990 Jul;162(1):274–6 Comment on: J Infect Dis 1989 Apr;159(4):680–5.
An outbreak of toxoplasmosis in pregnant women in northern Québec. McDonald JC, et al. J Infect Dis 1990 Apr; 161(4):769–74
An outbreak of gastroenteritis associated with acute rotaviral infection in schoolchildren. Matsumoto K, et al. J Infect Dis 1989 Oct;160(4):611–5
Foodborne hepatitis A: evidence that microwaving reduces risk? Mishu B, et al. J Infect Dis 1990 Sep;162(3):655–8
Pertussis and its prevention: a family affair [comment] Mortimer EA Jr. J Infect Dis 1990 Mar;161(3):473–9 (41 ref.) Comment on: J Infect Dis 1990 Mar;161(3):480–6. Comment on: J Infect Dis 1990 Mar;161(3):487–92.
Epidemiologic evidence that prior antimicrobial exposure decreases resistance to infection by antimicrobial-sensitive Salmonella. Pavia AT, et al. J Infect Dis 1990 Feb; 161(2):255–60
Interspecies gene transfer in vivo producing an outbreak of multiply resistant shigellosis. Tauxe RV, et al. J Infect Dis 1989 Dec;160(6):1067–70
An international outbreak of type E botulism due to uneviscerated fish. Telzak EE, et al. J Infect Dis 1990 Feb; 161(2):340–2
A large outbreak of epidemic keratoconjunctivitis: problems in controlling nosocomial spread. Warren D, et al. J Infect Dis 1989 Dec;160(6):938–43
An outbreak of hepatitis A among cancer patients treated with interleukin-2 and lymphokine-activated killer cells. Weisfuse IB, et al. J Infect Dis 1990 Apr;161(4):647–52
Several sporadic outbreaks of El Tor cholera in Sunpathong, Chiang Mai, September-October, 1987. Swaddiwudhipong W, et al. J Med Assoc Thai 1989 Oct;72(10):583–8
Epidemiological typing of Streptococcus pyogenes by pyrolysis mass spectrometry. Magee JT, et al. J Med Microbiol 1989 Dec;30(4):273–8
Streptococcal serotypes newly associated with epidemic post-streptococcal acute glomerulonephritis. Reid HF, et al. J Med Microbiol 1990 Jun;32(2):111–4
A probable waterborne outbreak of cryptosporidiosis in the Sheffield area. Rush BA, et al. J Med Microbiol 1990 Aug; 32(4):239–42
An epidemic of respiratory syncytial virus in elderly people: clinical and serological findings. Agius G, et al. J Med Virol 1990 Feb;30(2):117–27
Group C rotavirus associated with fatal enteritis in a family outbreak. Caul EO, et al. J Med Virol 1990 Mar;30(3):201–5
Adenovirus type 7 infections in children in New South Wales, Australia. de Silva LM, et al. J Med Virol 1989 Sep; 29(1):28–32
Genome and antigenic analysis of influenza A (H3N2) viruses isolated from an epidemic in a closed community of Carmelite nuns. Donatelli I, et al. J Med Virol 1990 Jun; 31(2):112–9
Nosocomial outbreak of neonatal gastroenteritis caused by a new serotype 4, subtype 4B human rotavirus. Gerna G, et al. J Med Virol 1990 Jul;31(3):175–82
Acute haemorrhagic conjunctivitis: seroepidemiology of coxsackievirus A24 variant and enterovirus 70 in Singapore. Goh KT, et al. J Med Virol 1990 Jul;31(3):245–7
Indoor air quality: a psychosocial perspective. Boxer PA. J Occup Med 1990 May;32(5):425–8
An outbreak of infectious conjunctivitis spread by microscopes. Doyle L, et al. J Occup Med 1989 Sep; 31(9):758–62
Ocular infections and the industrial use of microscopes. Paul M, et al. J Occup Med 1989 Sep;31(9):763–6
An outbreak of Salmonella heidelberg infection associated with a long incubation period. O'Mahony M, et al. J Public Health Med 1990 Feb;12(1):19–21
A severe case of Legionnaire's disease connected to the BBC outbreak in 1988. Richards NC, et al. J R Nav Med Serv 1989 Summer;75(2):117–20
Influenza B, Q fever, and the consequences of febrile illness occurring during jungle warfare training: a clinical and serological study. Wale MC. J R Nav Med Serv 1989 Spring;75(1):13–8
The 1945 St Helena poliomyelitis epidemic after 40 years. Cross AB. J R Soc Med 1989 Jun;82(6):339–42
An outbreak of pertussis-like syndrome in Boulder County, Colorado. Lenaway DD, et al. J Sch Health 1990 Jan; 60(1):31–3
Aseptic meningitis in football players [letter] Thomas JC. J Sch Health 1990 Jan;60(1):11
Surveillance of urinary thiocyanate concentration after epidemic spastic paraparesis in Mozambique. Casadei E, et al. J Trop Med Hyg 1990 Aug;93(4):257–61
Yaws in the Solomon Islands. Fegan D, et al. J Trop Med Hyg 1990 Feb;93(1):52–7
Poliomyelitis: 20 years—the Pondicherry experience. Mahadevan S, et al. J Trop Med Hyg 1989 Dec; 92(6):416–21
A study of recorded cases of foodborne diseases at Hyderabad during 1984 and 1985. Rao RN, et al. J Trop Med Hyg 1989 Oct;92(5):320–4
Isolated malaria outbreak in Somalia: role of chloroquine-resistant Plasmodium falciparum demonstrated in Balcad epidemic. Warsame M, et al. J Trop Med Hyg 1990 Aug;93(4):284–9
Salmonella typhi infection associated with a school feeding programme [letter] Weaver LT, et al. J Trop Pediatr 1989 Dec;35(6):331–2
From the Centers for Disease Control. Nursing home outbreaks of invasive group A streptococcal infections—Illinois, Kansas, North Carolina, and Texas. JAMA 1990 Sep 26;264(12):1518, 1520
From the Centers for Disease Control. Influenza activity—United States, 1989. JAMA 1990 Jan 26; 263(4):497
From the Centers for Disease Control. Transmission of Plasmodium vivax malaria—San Diego County, California, 1988 and 1989. JAMA 1990 Mar 23-30;263(12):1617
From the Centers for Disease Control. Acute schistosomiasis in US travelers returning from Africa. JAMA 1990 Apr 25;263(16):2165–6
From the Centers for Disease Control. Arboviral surveillance—Florida, 1990. JAMA 1990 Oct 10; 264(14):1805
From the Centers for Disease Control. Outbreak of invasive pneumococcal disease in a jail—Texas, 1989. JAMA 1989 Dec 15;262(23):3257
From the Centers for Disease Control. Outbreak of multidrug-resistant tuberculosis—Texas, California, and Pennsylvania. JAMA 1990 Jul 11;264(2):173–4
From the Centers for Disease Control. Lead poisoning associated with intravenous-methamphetamine use—Oregon, 1988. JAMA 1990 Feb 9;263(6):797–8
From the Centers for Disease Control. Influenza activity—worldwide and recommendations for influenza vaccine composition for the 1990–1991 influenza season. JAMA 1990 Jun 13;263(22):3002, 3006
From the Centers for Disease Control. Measles—United States, first 26 weeks, 1989. JAMA 1990 Jan 26; 263(4):497–8, 501
The worldwide smoking epidemic. Tobacco trade, use, and control. Council on Scientific Affairs. JAMA 1990 Jun 27; 263(24):3312–8
From the Centers for Disease Control. Influenza activity—United States, 1989–1990. JAMA 1990 Feb 16; 263(7):938, 941
From the Centers for Disease Control. Babesiosis—Connecticut. JAMA 1989 Oct 20;262(15):2067
From the Centers for Disease Control. Pertussis surveillance—United States, 1986–1988. JAMA 1990 Feb 23;263(8):1058–9
From the Centers for Disease Control. Eosinophilia-myalgia syndrome—New Mexico. JAMA 1989 Dec 8;262(22):3116
Impact of the human immunodeficiency virus epidemic on mortality in women of reproductive age, United States. Chu SY, et al. JAMA 1990 Jul 11;264(2):225–9
Mild measles and secondary vaccine failure during a sustained outbreak in a highly vaccinated population. Edmonson MB, et al. JAMA 1990 May 9;263(18):2467–71
Occupational risk of human parvovirus B19 infection for school and day-care personnel during an outbreak of erythema infectiosum [see comments] Gillespie SM, et al. JAMA 1990 Apr 18;263(15):2061–5 Comment in: JAMA 1990 Apr 18;263(15):2096–7.
Heterosexual AIDS: myth or epidemic? [letter] Godfrey SE. JAMA 1990 Oct 10;264(14):1807
As AIDS epidemic approaches second decade, report examines what has been learned [news] Goldsmith MF. JAMA 1990 Jul 25;264(4):431, 433
An outbreak of nitrogen dioxide-induced respiratory illness among ice hockey players [see comments] Hedberg K, et al. JAMA 1989 Dec 1;262(21):3014–7 Comment in: JAMA 1990 Jun 13;263(22):3024–5.
Annual rotavirus epidemic patterns in North America. Results of a 5-year retrospective survey of 88 centers in Canada, Mexico, and the United States. Rotavirus Study Group. LeBaron CW, et al. JAMA 1990 Aug 22–29; 264(8):983–8
Respiratory viruses and mycoplasma as cofactors for epidemic group A meningococcal meningitis. Moore PS, et al. JAMA 1990 Sep 12;264(10):1271–5
Did HIV and HTLV originate in Africa? [letter] Tabor E, et al. JAMA 1990 Aug 8;264(6):691–2

Epidemic transmission of enterically transmitted non-A, non-B hepatitis in Mexico, 1986-1987. Velázquez O, et al. **JAMA** 1990 Jun 27;263(24):3281-5

The return of acute rheumatic fever in young adults [see comments] Wallace MR, et al. **JAMA** 1989 Nov 10; 262(18):2557-61 Comment in: JAMA 1990 Mar 23-30;263(12):1633-4.

The epidemic of squamous cell carcinoma. Weinstock MA. **JAMA** 1989 Oct 20;262(15):2138-40

Outbreak of Mycobacterium chelonae infection associated with use of jet injectors. Wenger JD, et al. **JAMA** 1990 Jul 18;264(3):373-6

An outbreak of amebiasis in an institution for the mentally retarded in Japan. Nagakura K, et al. **Jpn J Med Sci Biol** 1989 Apr;42(2):63-76

Acquired immune deficiency syndrome. Warren RD. **Kans Med** 1990 Mar;91(3):54

Hepatitis C infection in two urban hemodialysis units. Jeffers LJ, et al. **Kidney Int** 1990 Aug;38(2):320-2

Neurological complications of domoic acid intoxication [editorial] **Lancet** 1990 Sep 8;336(8715):601

Trouble in the potting shed [editorial] **Lancet** 1990 Jul 21; 336(8708):151-2

Epidemic multiresistant enteric fever in eastern India [letter] Anand AC, et al. **Lancet** 1990 Feb 10;335(8685):352

Meningococcal disease: high virulence and low transmission [letter; comment] Blackwell CC, et al. **Lancet** 1990 Jul 7; 336(8706):53 Comment on: Lancet 1990 May 19;335(8699):1182-4.

Increase in admissions for Neisseria meningitidis infection in Australia [letter] Clements DA, et al. **Lancet** 1989 Dec 16;2(8677):1464

Outbreak of botulism in north west England and Wales, June, 1989. Critchley EM, et al. **Lancet** 1989 Oct 7; 2(8667):849-53

Nosocomial epidemic of active tuberculosis among HIV-infected patients. Di Perri G, et al. **Lancet** 1989 Dec 23-30;2(8678-8679):1502-4

L-tryptophan and eosinophilia-myalgia syndrome in New Mexico. Eidson M, et al. **Lancet** 1990 Mar 17; 335(8690):645-8

Outbreak of Pontiac fever due to Legionella anisa. Fenstersheib MD, et al. **Lancet** 1990 Jul 7;336(8706):35-7

Cross-infection by non-encapsulated Haemophilus influenzae. Gough J, et al. **Lancet** 1990 Jul 21; 336(8708):159-60

Viral gastroenteritis aboard a cruise ship. Ho MS, et al. **Lancet** 1989 Oct 21;2(8669):961-5

False-positive Clostridium difficile latex agglutination tests [letter] Huovinen P, et al. **Lancet** 1990 Jun 16; 335(8703):1467-8

Nosocomial Clostridium difficile colonisation and disease. Johnson S, et al. **Lancet** 1990 Jul 14;336(8707):97-100

Identification of a UK outbreak strain of Neisseria meningitidis with a DNA probe [see comments] Knight AI, et al. **Lancet** 1990 May 19;335(8699):1182-4 Comment in: Lancet 1990 Jul 7;336(8706):53. Comment in: Lancet 1990 Jul 7;336(8706):53-4.

Pellagra in Mozambican refugees [letter] Moren A, et al. **Lancet** 1990 Jun 9;335(8702):1403-4

Epidemic visceral leishmaniasis in southern Sudan [letter] Perea WA, et al. **Lancet** 1989 Nov 18;2(8673):1222-3

Mass sociogenic illness by proxy: parentally reported epidemic in an elementary school. Philen RM, et al. **Lancet** 1989 Dec 9;2(8676):1372-6

Epidemic alert: malaria infections in travellers from West Africa [letter] Phillips-Howard PA, et al. **Lancet** 1990 Jan 13;335(8681):119-20

Experience with toxin bead ELISA in cholera outbreak [letter] Ramamurthy T, et al. **Lancet** 1990 Aug 11; 336(8711):375-6

Cluster of listeriosis isolates with different serovar and phagovar characteristics [letter] Rocourt J, et al. **Lancet** 1989 Nov 18;2(8673):1217-8

Immunity to poliomyelitis [letter] Schoub BD, et al. **Lancet** 1990 Jul 14;336(8707):126

Outbreaks of multiresistant Haemophilus influenzae infection [letter; comment] Scott GM, et al. **Lancet** 1990 Apr 14; 335(8694):925 Comment on: Lancet 1990 Jan 27;335(8683):214-6.

Hospital outbreak of scabies stemming from two AIDS patients with Norwegian scabies [letter] Sirera G, et al. **Lancet** 1990 May 19;335(8699):1227

Poliomyelitis outbreak in Israel in 1988: a report with two commentaries. Slater PE, et al. **Lancet** 1990 May 19; 335(8699):1192-5; discussion 1196-8

Tracking AIDS epidemic in libraries [letter] Vandenbroucke JP. **Lancet** 1990 Aug 4;336(8710):318

Foodborne illness: an overview. Waites WM, et al. **Lancet** 1990 Sep 22;336(8717):722-5 (12 ref.)

Family outbreak of psittacosis [letter] Weston VC, et al. **Lancet** 1990 May 19;335(8699):1226-7

Respiratory syncytial virus infection in special care nursery [letter] White MP, et al. **Lancet** 1990 Apr 21;335(8695):979

Hepatitis C virus causing non-A, non-B hepatitis in plasmapheresis centre [letter] Zhang WH, et al. **Lancet** 1990 Feb 10;335(8685):353

"Repetition strain injury" in Telecom Australia [letter] **Med J Aust** 1989 Sep 18;151(6):356-7

An Australia-wide epidemic of Pseudomonas pickettii bacteraemia due to contaminated "sterile" water for injection. Roberts LA, et al. **Med J Aust** 1990 Jun 18; 152(12):652-5

Legionnaires' disease in South Australia, 1979-1988. Steele TW. **Med J Aust** 1989 Sep 18;151(6):322, 325-6, 328

Virological study of a dengue type 1 epidemic at Rio de Janeiro. Nogueira RM, et al. **Mem Inst Oswaldo Cruz** 1989 Apr-Jun;83(2):219-25

An outbreak of American cutaneous leishmaniasis (Leishmania braziliensis braziliensis) in a periurban area of Rio de Janeiro city, Brazil: clinical and epidemiological studies. Oliveira-Neto MP, et al. **Mem Inst Oswaldo Cruz** 1988 Oct-Dec;83(4):427-35

The investigation of a tuberculosis outbreak in the closed environment of a U.S. Navy ship, 1987. DiStasio AJ 2d, et al. **Millt Med** 1990 Aug;155(8):347-51

Update: influenza activity—United States, 1989-90. **MMWR** 1990 Jan 26;39(3):49-51

Update: arboviral surveillance—Florida, 1990. **MMWR** 1990 Sep 21;39(37):650-1

Lead poisoning associated with intravenous-methamphetamine use—Oregon, 1988. **MMWR** 1989 Dec 8;38(48):830-1

Foodborne hepatitis A—Alaska, Florida, North Carolina, Washington. **MMWR** 1990 Apr 13;39(14):228-32

Update: influenza activity—worldwide and recommendations for influenza vaccine composition for the 1990-91 influenza season [published erratum appears in MMWR 1990 May 18;39(19):328] **MMWR** 1990 May 4;39(17):293-6

Measles—Washington, 1990. **MMWR** 1990 Jul 20; 39(28):473-6

Group A beta-hemolytic streptococcal pharyngitis among U.S. Air Force trainees—Texas, 1988-89. **MMWR** 1990 Jan 12;39(1):11-3

Psittacosis at a turkey processing plant—North Carolina, 1989. **MMWR** 1990 Jul 13;39(27):460-1, 467-9

Outbreak of invasive pneumococcal disease in a jail—Texas, 1989. **MMWR** 1989 Nov 3;38(43):733-4

Outbreak of multidrug-resistant tuberculosis—Texas, California, and Pennsylvania. **MMWR** 1990 Jun 8; 39(22):369-72

Pertussis surveillance—United States, 1986-1988. **MMWR** 1990 Feb 2;39(4):57-8, 63-6

Arboviral infections of the central nervous system—United States, 1989 [published erratum appears in MMWR 1990 Jun 29;39(25):437] **MMWR** 1990 Jun 22;39(24):407, 413-7

Swimming-associated cryptosporidiosis—Los Angeles County. **MMWR** 1990 May 25;39(20):343-5

Mass sociogenic illness in a day-care center—Florida. **MMWR** 1990 May 11;39(18):301-4

Nursing home outbreaks of invasive group A streptococcal infections—Illinois, Kansas, North Carolina, and Texas. **MMWR** 1990 Aug 31;39(34):577-9

Outbreak of measles in a private international school—Geneva, Switzerland, 1989. **MMWR** 1990 Jul 27; 39(29):497-9

Eosinophilia-myalgia syndrome—New Mexico. **MMWR** 1989 Nov 17;38(45):765-7

Community outbreaks of shigellosis—United States. **MMWR** 1990 Aug 3;39(30):509-13, 519

Acute schistosomiasis in U.S. travelers returning from Africa. **MMWR** 1990 Mar 9;39(9):141-2, 147-8

Surveillance of influenza-like diseases through a national computer network—France, 1984-1989. **MMWR** 1989 Dec 15;38(49):855-7

Epidemic meningococcal disease—Kenya and Tanzania: recommendations for travelers, 1990. **MMWR** 1990 Jan 12; 39(1):13-4

Measles—United States, 1989 and first 20 weeks 1990. **MMWR** 1990 Jun 1;39(21):353-6, 361-3

Herpes gladiatorum at a high school wrestling camp—Minnesota. **MMWR** 1990 Feb 9;39(5):69-71

Update: Salmonella enteritidis infections and grade A shell eggs—United States, 1989. **MMWR** 1990 Jan 5; 38(51-52):877-80

Transmission of Plasmodium vivax malaria—San Diego County, California, 1988 and 1989. **MMWR** 1990 Feb 16; 39(6):91-4

Group A beta-hemolytic streptococcal bacteremia—Colorado, 1989. **MMWR** 1990 Jan 12; 39(1):3-6, 11

Legionnaires' disease outbreak associated with a grocery store mist machine—Louisiana, 1989. **MMWR** 1990 Feb 23;39(7):108-10

Common source outbreak of relapsing fever—California. **MMWR** 1990 Aug 31;39(34):579, 585-6

Measles—United States, first 26 weeks, 1989. **MMWR** 1989 Dec 22;38(50):863-6, 871-2

Epidemic keratoconjunctivitis in an ophthalmology clinic—California. **MMWR** 1990 Sep 7;39(35):598-601

Update: influenza activity—United States, 1989. **MMWR** 1989 Dec 22;38(50):872-3

Nosocomial transmission of hepatitis B virus associated with a spring-loaded fingerstick device—California. **MMWR** 1990 Sep 7;39(35):610-3

An outbreak of surgical-wound infections due to group A streptococcus carried on the scalp. Mastro TD, et al. **N Engl J Med** 1990 Oct 4;323(14):968-72

An outbreak of toxic encephalopathy caused by eating mussels contaminated with domoic acid. Perl TM, et al. **N Engl J Med** 1990 Jun 21;322(25):1775-80

Lessons from New York City on HIV/AIDS in adolescents. Hein K. **N Y State J Med** 1990 Mar;90(3):143-5 (23 ref.)

Methicillin-resistant Staphylococcus aureus: an increasing threat in New Zealand hospitals. Martin DR, et al. **N Z Med J** 1989 Jul 26;102(872):367-9

Another epidemic of congenital rubella? [letter] Paul C. **N Z Med J** 1990 Mar 14;103(885):106-7

H influenzae type B infections [letter] Stanley TV, et al. **N Z Med J** 1990 May 23;103(890):252

Influenza according to Hoyle [letter; comment] **Nature** 1990 Mar 29;344(6265):374 Comment on: Nature 1990 Jan 25;343(6256):304.

Sunspots and influenza [letter] [see comments] Hoyle F, et al. **Nature** 1990 Jan 25;343(6256):304 Comment in: Nature 1990 Mar 29;344(6265):374.

The possible role of Rickettsia-like organisms in trypanosomiasis epidemiology. Baker RD, et al. **Parasitology** 1990 Apr;100 Pt 2:209-17

Outbreak of Haemophilus influenzae type b meningitis in a day care center. Andersson von Rosen I, et al. **Pediatr Infect Dis J** 1990 May;9(5):326-32

An epidemic of adenovirus type 1 conjunctivitis. Chomel JJ, et al. **Pediatr Infect Dis J** 1989 Dec;8(12):884-6

A population-based retrospective assessment of the disease burden resulting from invasive Haemophilus influenzae in infants and young children in Santiago, Chile. Ferreccio C, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):488-94

Outbreak of poliomyelitis-like paralysis associated with enterovirus 71. Hayward JC, et al. **Pediatr Infect Dis J** 1989 Sep;8(9):611-6

Outbreak of erythromycin-resistant staphylococcal conjunctivitis in a newborn nursery. Hedberg K, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):268-73

Bacterial coinfection in children hospitalized with respiratory syncytial virus infections. Korppi M, et al. **Pediatr Infect Dis J** 1989 Oct;8(10):687-92

Risk factors associated with a school-related outbreak of serogroup C meningococcal disease. Morrow HW, et al. **Pediatr Infect Dis J** 1990 Jun;9(6):394-8

Outbreak of parainfluenza virus type 3 in a neonatal nursery. Singh-Naz N, et al. **Pediatr Infect Dis J** 1990 Jan;9(1):31-3

An outbreak of acute rheumatic fever in Tennessee. Westlake RM, et al. **Pediatr Infect Dis J** 1990 Feb;9(2):97-100 (17 ref.)

Retinopathy of prematurity-induced blindness: birth weight-specific survival and the new epidemic. Gibson DL, et al. **Pediatrics** 1990 Sep;86(3):405-12

Changing epidemiology of mumps and its impact on university campuses. Sosin DM, et al. **Pediatrics** 1989 Nov; 84(5):779-84

Beyond morality: the need for psychodynamic understanding and treatment of responses to the AIDS crisis. Rogers RR. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):456-9

Epidemics and the media: an Italian experience. Maffei C, et al. **Public Health** 1990 Jan;104(1):33-5

Scabies in a nursing home. Myint KM. **Public Health** 1990 May;104(3):189-90

Erythema infectiosum in a primary school: investigation of an outbreak in Bury. Turner A, et al. **Public Health** 1989 Sep;103(5):391-3

Diarrhea in developed and developing countries: magnitude, special settings, and etiologies. Guerrant RL, et al. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 1:S41-50 (72 ref.)

An outbreak of cutaneous leishmaniasis. Nishioka S de A, et al. **Rev Soc Bras Med Trop** 1988 Oct-Dec;21(4):209

Serogroup A Neisseria meningitidis of clone III-1 present in western Norway as early as 1969-73. Hjetland R, et al. **Scand J Infect Dis** 1990;22(2):241-2

Outbreaks of infections with erythromycin-resistant group A streptococci in child day care centres. Holmström L, et al. **Scand J Infect Dis** 1990;22(2):179-85

Norwalk virus in Norway: an outbreak of gastroenteritis studied by electron microscopy and radioimmunoassay. Kjeldsberg E, et al. **Scand J Infect Dis** 1989;21(5):521-6

Waterborne Campylobacter jejuni epidemic in a Finnish hospital for rheumatic diseases. Rautelin H, et al. **Scand J Infect Dis** 1990;22(3):321-6

Features of a large epidemic of group A meningococcal meningitis in Khartoum, Sudan in 1988. Salih MA, et al. **Scand J Infect Dis** 1990;22(2):161-70

Childhood acute bacterial meningitis in the Sudan: an epidemiological, clinical and laboratory study. Salih MA. **Scand J Infect Dis Suppl** 1990;66:1-103

Space invaders. Extra! Extra! Flu linked to sunspots! [news] Horgan J. **Sci Am** 1990 Apr;262(4):26, 30

Serratia marcescens outbreak in a paediatric oncology unit traced to contaminated chlorhexidine. McAllister TA, et al. **Scott Med J** 1989 Oct;34(5):525-8

Is there divine justice in AIDS? Why now, and not before? Bryan CS. **South Med J** 1990 Feb;83(2):199-202

Cocaine in the cradle: a hidden epidemic. Giacoia GP. **South Med J** 1990 Aug;83(8):947-51 (38 ref.)

Ciguatera fish poisoning: an outbreak associated with fish caught from North Carolina coastal waters [see comments] Morris PD, et al. **South Med J** 1990 Apr;83(4):379-82 Comment in: South Med J 1990 Apr;83(4):371-2.

Epidemic of fever of unknown origin in rural Thailand, caused by influenza A (H1N1) and dengue fever. Silarug N, et al. **Southeast Asian J Trop Med Public Health** 1990 Mar;21(1):61-7

Measles in the United States: the epidemic of 1989. **Stat Bull Metrop Insur Co** 1990 Apr-Jun;71(2):11-8; discussion 19

Botulism: a potentially common problem [letter] Slater PE. **Thorax** 1990 May;45(5):424

Outbreaks of pertussis in the United States: the Wisconsin experience. Partiarca PA, et al. **Tokai J Exp Clin Med** 1988; 13 Suppl:117–23

Sensitivity to mefloquine in vitro of chloroquine-resistant Plasmodium falciparum from Vanuatu. Bastien P. **Trans R Soc Trop Med Hyg** 1989 Nov–Dec;83(6):759–60

An outbreak of suspected water-borne epidemic non-A non-B hepatitis in northern Botswana with a high prevalence of hepatitis B carriers and hepatitis delta markers among patients. Byskov J, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):110–6

Are tuberculosis patients a 'sentinel' population for HIV epidemic in Africa? Hellinger J, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):292

Urban yellow fever epidemic in western Nigeria, 1987. Nasidi A, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun; 83(3):401–6

Diagnosis of typhoid fever in Nigeria: misuse of the Widal test. Onuigbo MA. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):129–31

Epidemic scabies in four Caribbean islands, 1981–1988. Reid HF, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr; 84(2):298–300

Trichinellosis in southern Spain. Rodríguez-Osorio M, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):120

An outbreak of nosocomial cholera in a 755-bed hospital. Swaddiwudhipong W, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):279–81

Antibodies to Plasmodium falciparum sporozoites following a malarial outbreak in a non-endemic area of Sri Lanka. Wijesundera MD, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):35–9

Polio outbreak in Algeria [letter; comment] Wyatt HV. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):143–4 Comment on: Trans R Soc Trop Med Hyg 1988;82(2):305–10.

Atypical cutaneous leishmaniasis in a semiarid region of north-west Costa Rica. Zeledón R, et al. **Trans R Soc Trop Med Hyg** 1989 Nov–Dec;83(6):786

Enterically transmitted non-A, non-B hepatitis associated with an outbreak in Dhaka: epidemiology and public health implications. Hlady WG, et al. **Trop Doct** 1990 Jan; 20(1):15–7

Makeshift treatment centre during a cholera epidemic in Bangladesh. Siddique AK, et al. **Trop Doct** 1990 Apr; 20(2):83–5

An outbreak of chromium ulcer in a manufacturing plant. Deng JF, et al. **Vet Hum Toxicol** 1990 Apr;32(2):142–6

Outbreak of virulent infectious bursal disease in East Anglia. Chettle N, et al. **Vet Rec** 1989 Sep 2;125(10):271–2

Outbreak of acute coenuriasis in adult sheep in Ireland. Doherty ML, et al. **Vet Rec** 1989 Aug 19;125(8):185

An outbreak of non-A, non-B hepatitis associated with the infusion of a commercial factor IX complex during cardiovascular surgery. Gerber AR, et al. **Vox Sang** 1990; 58(4):270–5

An outbreak of illness among aerospace workers [see comments] Sparks PJ, et al. **West J Med** 1990 Jul; 153(1):28–33 Comment in: West J Med 1990 Jul;153(1):77–8.

Ebola virus. **Wkly Epidemiol Rec** 1990 Feb 16;65(7):45–7 **(Eng, Fre)**

Acquired immunodeficiency syndrome (AIDS). **Wkly Epidemiol Rec** 1990 Feb 23;65(8):56–7 **(Eng, Fre)**

Legionnaires' disease. Outbreak associated with a mist machine in a retail food store. **Wkly Epidemiol Rec** 1990 Mar 9;65(10):69–70 **(Eng, Fre)**

Plague. **Wkly Epidemiol Rec** 1990 Mar 16;65(11):83–4 **(Eng, Fre)**

Food safety. Egg-stuffed sea trout and salmonellae. **Wkly Epidemiol Rec** 1990 Mar 30;65(13):97–8 **(Eng, Fre)**

Expanded programme on immunization. Formulation of Pasteur BCG vaccine. **Wkly Epidemiol Rec** 1990 Mar 30; 65(13):99 **(Eng, Fre)**

Epidemiology of dengue fever/dengue haemorrhagic fever. **Wkly Epidemiol Rec** 1990 Apr 6;65(14):104–6 **(Eng, Fre)**

Meningococcal meningitis in Africa. **Wkly Epidemiol Rec** 1990 Apr 20;65(16):120–2 **(Eng, Fre)**

Dengue haemorrhagic fever (DHF). Increase in number of cases in the Americas 1980–1987. **Wkly Epidemiol Rec** 1990 Jan 19;65(3):13–5 **(Eng, Fre)**

The occurrence of cercarial dermatitis in Central Bohemia. Kolářová L, et al. **Zentralbl Hyg Umweltmed** 1989 Oct; 189(1):1–13

Molecular epidemiology of Pseudomonas aeruginosa—urinary tract infections in paraplegic patients. Worlitzsch D, et al. **Zentralbl Hyg Umweltmed** 1989 Nov; 189(2):175–84

[Analysis of the prevalence of nosocomial infections] Song P, et al. **Chung Hua Hu Li Tsa Chih** 1990 Apr;25(4):166–8 **(Chi)**

[A report of an outbreak of diphtheria in Anshan area] Liang Y. **Chung Hua Lin Hsing Ping Hsueh Tsa Chih** 1989 Dec; 10(6):331–2 (Eng. Abstr.) **(Chi)**

[An outbreak of diarrhoea in newborns caused by EIEC] She SL. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec;10(6):333–6 (Eng. Abstr.) **(Chi)**

[Investigation of an outbreak of HNANB[E] in Shufu County, Xinjiang] Wang HY. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):270–3 (Eng. Abstr.) **(Chi)**

[Study on forecasting local rubella outbreaks in Hangzhou city proper by serologic method] Xu F. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):20–3 (Eng. Abstr.) **(Chi)**

[A study on phage analysis of two episodes of food poisoning caused by the same serotype of enteroinvasive Escherichia coli] Yang ZS. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):299–301 (Eng. Abstr.) **(Chi)**

[Virologic and serologic observations in an outbreak of infantile bronchopneumonitis] Yao K. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):274–6 (Eng. Abstr.) **(Chi)**

[Analysis of causes of malaria outbreaks in Yunnan Province, 1981–1985] Zhang Y. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Feb; 11(1):24–6 (Eng. Abstr.) **(Chi)**

[Predictive impact on malaria prevalence by hydraulic project of three gorges of the Yangtze River] Chen HL, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1989;7(3):177–80 (Eng. Abstr.) **(Chi)**

[A minor epidemic of pertussis cough in Brno] Bartošová D, et al. **Cesk Epidemiol Mikrobiol Imunol** 1989 Jul; 38(4):228–33 (Eng. Abstr.) **(Cze)**

[Bavaroise and an epidemic of Salmonella enteritidis] Mertens PL, et al. **Ned Tijdschr Geneeskd** 1990 Jun 30; 134(26):1258–61 (Eng. Abstr.) **(Dut)**

[Meningococcal disease in the winter season 1988–1989] Postema CA, et al. **Ned Tijdschr Geneeskd** 1990 Mar 24; 134(12):609–13 (Eng. Abstr.) **(Dut)**

[Severe course of a primary BVD infection in a BVD-seronegative dairy herd] Sol J, et al. **Tijdschr Diergeneeskd** 1989 Sep 1;114(17):886–90 (Eng. Abstr.) **(Dut)**

[Cryptosporidiosis in children: epidemics and sporadic cases] Bretagne S, et al. **Ann Pediatr (Paris)** 1990 Jun;37(6):381–6 (Eng. Abstr.) **(Fre)**

[Consumption of goat cheese and human brucellosis in Ghardaïa (Algeria)] Cherif A, et al. **Arch Inst Pasteur Alger** 1986;55:9–14 (Eng. Abstr.) **(Fre)**

[Epidemiology of cholera in Algeria from 1971 to 1985] Guechi Z. **Arch Inst Pasteur Alger** 1986;55:15–23 (Eng. Abstr.) **(Fre)**

[Development of a clinical and biological scoring system for the prognosis of Rift Valley fever] Adam F, et al. **Bull Soc Pathol Exot Filiales** 1989;82(5):628–36 (Eng. Abstr.) **(Fre)**

[Mild clinical forms of Rift Valley fever during the epidemic in Mauritania] Jouan A, et al. **Bull Soc Pathol Exot Filiales** 1989;82(5):620–7 (Eng. Abstr.) **(Fre)**

[Hemorrhagic forms of Rift Valley fever in Mauritania] Philippe B, et al. **Bull Soc Pathol Exot Filiales** 1989; 82(5):611–9 (Eng. Abstr.) **(Fre)**

[Neurologic and neurosensory forms of Rift Valley fever in Mauritania] Riou O, et al. **Bull Soc Pathol Exot Filiales** 1989;82(5):605–10 (Eng. Abstr.) **(Fre)**

[An epidemic of yellow fever in Peru] Mili N. **Rev Med Suisse Romande** 1990 May;110(5):413–5 **(Fre)**

[Microepidemics of tuberculosis] Daňková D, et al. **Z Erkr Atmungsorgane** 1989;173(1):37–9 (Eng. Abstr.) **(Ger)**

[Methods for the elucidation of epidemics of salmonella infections limited to the alimentary tract] Felgenträger HJ, et al. **Z Gesamte Hyg** 1989 Nov;35(11):672–3 (Eng. Abstr.) **(Ger)**

[Cryptosporidiosis. Characterization of a new infection with special regard to water as the source of infection] Exner M, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):13–25 (48 ref.) (Eng. Abstr.) **(Ger)**

[Environment and occurrence of epidemics] Mayr A. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):1–12 (16 ref.) (Eng. Abstr.) **(Ger)**

[Hospital epidemic of Clostridium difficile diarrhea: demonstration of cross-infection using a typing technic] Cerquetti M, et al. **Ann Ist Super Sanita** 1989;25(2):327–32 (Eng. Abstr.) **(Ita)**

[Epidemic of aseptic meningitis with echovirus type 7 in Gifu prefecture in 1986] Miwa C, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):584–92 (Eng. Abstr.) **(Jpn)**

[Small round viruses isolated from acute infectious nonbacterial gastroenteritis in Fukuoka] Ohtsu R, et al. **Kansenshogaku Zasshi** 1989 Aug;63(8):816–21 (Eng. Abstr.) **(Jpn)**

[Bacteriological investigation on an outbreak of acute enteritis associated with verotoxin-producing Escherichia coli O111:H-] Tanaka H, et al. **Kansenshogaku Zasshi** 1989 Oct;63(10):1187–94 (Eng. Abstr.) **(Jpn)**

[O5-antigenic classification of Salmonella typhimurium isolated from outbreaks of Salmonella enteritis] Yamaura N, et al. **Kansenshogaku Zasshi** 1990 Jun;64(6):693–8 (Eng. Abstr.) **(Jpn)**

[Late sequelae of epidemic viral meningitis] Pierzchała K, et al. **Wiad Lek** 1989 Feb 1;42(3):155–8 (Eng. Abstr.) **(Pol)**

[Recent occurrence of human infection by Rocio arbovirus in the Valley of Ribeira region] Iverson LB, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jan–Feb;31(1):28–31 (Eng. Abstr.) **(Por)**

[Acute hemorrhagic conjunctivitis caused by a variant of coxsackievirus A24, in Belém, Pará, Brazil, 1987] Santos E de O, et al. **Rev Inst Med Trop Sao Paulo** 1989 May–Jun; 31(3):183–7 (Eng. Abstr.) **(Por)**

[1st register of an epidemic caused by Oropouche virus in the states of Maranhão and Goiás, Brazil] Vasconcelos PF, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jul–Aug; 31(4):271–8 (Eng. Abstr.) **(Por)**

[Schistosomiasis mansoni in the southwest of the State of Minas Gerais (Brazil)] Carvalho O dos S, et al. **Rev Saude Publica** 1989 Aug;23(4):341–4 (Eng. Abstr.) **(Por)**

[An episode of hospital infection due to Klebsiella pneumoniae in a neonatal department] Paraschivescu I, et al. **Rev Ig [Bacteriol]** 1989 Oct–Dec;34(4):313–24 (Eng. Abstr.) **(Rum)**

[Epidemiological role of food products in spreading Shigella infections in present-day conditions] Solodovnikov IuP, et al. **Gig Sanit** 1990 May;(5):17–20 **(Rus)**

[An outbreak of cutaneous leishmaniasis caused by Leishmania infantum in Geokchaĭ District, Azerbaijan SSR] Gasanzade GB, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):41–5 (Eng. Abstr.) **(Rus)**

[Epidemiology of tuberculosis (lecture)] Kucherov AL. **Probl Tuberk** 1990;(3):54–8 **(Rus)**

[Ornithosis outbreak] Abramova LN, et al. **Sov Med** 1990; (5):114–6 **(Rus)**

[Legionella pneumophila pneumonia] Feklisova LV, et al. **Sov Med** 1990;(1):63–7 **(Rus)**

[Sporadic Rotavirus gastroenteritis in adults] Gracheva NM, et al. **Sov Med** 1989;(9):103–6 **(Rus)**

[Impact of influenza epidemics on cardiovascular disease mortality] Kolodkin VV, et al. **Sov Zdravookhr** 1989; (11):35–8 (Eng. Abstr.) **(Rus)**

[Outbreaks of tick-borne encephalitis on the Karel'skiy Isthmus and their significance for the study of the disease] Shapoval AN. **Tr Inst Pastera** 1989;65:49–56 **(Rus)**

[Outbreak of enteroviral uveitis in children in Omsk in 1987–1988] Lashkevich VA, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):33–8 (Eng. Abstr.) **(Rus)**

[Antigenic characteristics of influenza B virus strains isolated in an orphanage during an influenza outbreak in Moscow in the winter of 1988] Reĭzin FN, et al. **Vopr Virusol** 1989 Sep–Oct;34(5):562–4 (Eng. Abstr.) **(Rus)**

[An outbreak of hepatitis A in imported rhesus monkeys] Shevtsova ZV, et al. **Vopr Virusol** 1989 May–Jun; 34(3):346–51 **(Rus)**

[The plasmid composition and pathogenetic characteristics of Yersinia pseudotuberculosis strains isolated from human subjects against a background of epidemic and sporadic morbidity] Brikman VD, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):3–7 (Eng. Abstr.) **(Rus)**

[An analysis of the seasonal rise in hepatitis A morbidity at a children's center and ways to improve the sanitary epidemiologic surveillance for this infection among organized preschoolers] Gudkov VG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Mar;(3):39–44 (Eng. Abstr.) **(Rus)**

[Who is right, the author of the theory of the self-regulation of parasitic systems or the author of the socioecologic concept of the epidemic process?] Kozlov MP. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Mar;(3):104–10 **(Rus)**

[Outbreaks of pseudotuberculosis and intestinal yersiniosis among Soviet specialists and members of their families in the Mongolian People's Republic] Markov IS, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug;(8):43–9 (Eng. Abstr.) **(Rus)**

[Quantitative research on the cyclic fluctuations of the epidemic process in a number of infectious diseases in Bulgaria] Ranchov GK. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):59–62 (Eng. Abstr.) **(Rus)**

[Groups of the species Vibrio cholerae having different epidemic importance] Semiotrochev VL. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr;(4):54–8 (Eng. Abstr.) **(Rus)**

[Trends in the development of the epidemic process in salmonellosis caused by Salmonella typhimurium and Salmonella enteritidis] Sergevnin VI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):38–42 (Eng. Abstr.) **(Rus)**

[A bronchiolitis epidemic caused by respiratory syncytial viruses] Jelić A, et al. **Acta Med Iugosl** 1990;44(3):247–58 (Eng. Abstr.) **(Ser)**

[A familial epidemic of Q-fever in Herzegovina] Santić Z, et al. **Med Arh** 1985;39(1):33–6 (Eng. Abstr.) **(Ser)**

[Outbreak of respiratory syncytial virus in a neonatal unit] García Pérez A, et al. **An Esp Pediatr** 1989 Jun;30(6):480–2 (Eng. Abstr.) **(Spa)**

[Epidemic outbreak of parotiditis in a school population and efficacy of antiparotiditis vaccination] Arnedo Pena A, et al. **Med Clin (Barc)** 1989 Nov 18;93(16):607–10 (Eng. Abstr.) **(Spa)**

[Scabies at school: description of an atypical outbreak (letter)] Guimbao Bescós J, et al. **Med Clin (Barc)** 1990 May 19; 94(19):759 **(Spa)**

[Extraintestinal isolation of Salmonella in chickens: epidemiologic study of 3 salmonellosis outbreaks after ingestion of raw eggs (published erratum appears in Microbiologia 1988 Feb;4(1):65)] Sesma B, et al. **Microbiologia** 1987 Oct;3(3):209–12 (Eng. Abstr.) **(Spa)**

[Atypical epidemic outbreak of gastroenteritis caused by rotavirus] Marín Casanova P, et al. **Rev Sanid Hig Publica (Madr)** 1989 Jul–Aug;63(7–8):39–45 (Eng. Abstr.) (Spa)

[Outbreak of food poisoning caused by Salmonella typhimurium] Ulutan F, et al. **Mikrobiyol Bul** 1988 Apr; 22(2):95–100 (Eng. Abstr.) (Tur)

CLASSIFICATION

An outbreak of thyrotoxicosis due to atypical subacute thyroiditis. de Bruin TW, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):396–402

[The epidemiologic classification of plague morbidity] Rivkus IuZ. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):62–6 (Eng. Abstr.) (Rus)

ECONOMICS

The impact of AIDS on socioeconomic development. Nabarro D, et al. **AIDS** 1989;3 Suppl 1:S265–72 (43 ref.)

The tangible cost implications of a hospital outbreak of multiply-resistant Salmonella. Barnass S, et al. **Epidemiol Infect** 1989 Oct;103(2):227–34

Costs of acute bacterial foodborne disease in Canada and the United States. Todd EC. **Int J Food Microbiol** 1989 Dec;9(4):313–26 (22 ref.)

Paying the medical cost of the HIV epidemic: a review of policy options. Makadon HJ, et al. **J Acquir Immune Defic Syndr** 1990;3(2):123–33 (69 ref.)

[Evaluation of the medical and social cost of 2 trichinosis outbreaks in France in 1985] Ancelle T, et al. **Rev Epidemiol Sante Publique** 1990;38(3):179–86 (Eng. Abstr.) (Fre)

HISTORY

Haff disease [letter; comment] Solomon M. **Arch Intern Med** 1990 Mar;150(3):683 Comment on: Arch Intern Med 1989 Aug;149(8):1735–40.

The disinfection of letters: defense measures against epidemics. Meyer K. **Caduceus** 1989 Autumn;5(3):1–31

Grosse Ile: the Isle of Sorrows recalls the plague years. Thomson G. **Can Med Assoc J** 1990 Jul 1;143(1):56–9

The Great Ethiopian Influenza (Ye Hedar Beshita) Epidemic of 1918. Pankhurst R. **Ethiop Med J** 1989 Oct;27(4):235–42

Yellow fever and Maryland physicians. Baker TD. **Md Med J** 1989 Oct;38(10):801–3

Influenza causing sunspots? [letter] Lyons D, et al. **Nature** 1990 Mar 1;344(6261):10

Donovanosis in Dutch South New Guinea: history, evolution of the epidemic and control. Vogel LC, et al. **P N G Med J** 1989 Sep;32(3):203–18

From whence cometh this dread pestilence? [editorial] Aronson SM. **R I Med J** 1990 Jul;73(7):282–3

Plague in Vienna. Velimirovic B, et al. **Rev Infect Dis** 1989 Sep–Oct;11(5):808–26

Personal reflections on nosocomial staphylococcal infections and the development of hospital surveillance [published erratum appears in Rev Infect Dis 1990 Mar–Apr;12(2):373] Wise RI, et al. **Rev Infect Dis** 1989 Nov–Dec;11(6):1005–19

Disease and death in the New World [news] [see comments] Roberts L. **Science** 1989 Dec 8;246(4935):1245–7 Comment in: Science 1990 Feb 16;247(4944):788–9.

The Hobart typhoid epidemic of 1887–88. Kellaway RG. **Soc Sci Med** 1989;29(8):953–8

The black death past and present. 2. Some historical problems. Slack P. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):461–3

[Hippocrates, Sophocles and the description of the plague of Thucydides] Alsina J. **Sudhoffs Arch Beih** 1989; (27):213–21 (Fre)

[Cholera in 1831. Challenges for science and the federal government] Stamm–Kuhlmann T. **Sudhoffs Arch** 1989; 73(2):176–89 (Eng. Abstr.) (Ger)

[Human hepatitis experiments in the 2d World War] Leyendecker B, et al. **Z Gesamte Hyg** 1989 Dec; 35(12):756–60 (Eng. Abstr.) (Ger)

[The history of epidemic environmental lead poisoning] Manuwald O. **Z Gesamte Hyg** 1989 Dec;35(12):718–21 (Eng. Abstr.) (Ger)

[The plague as a divine scourge. Plague infections in Monferrato and particularly the epidemic of 1522–1530 in Casale, the capital] Pezzana M. **Minerva Med** 1989 Dec; 80(12):1335–43 (Eng. Abstr.) (Ita)

[Health conditions in Sör–Varanger during the war years 1940–44] Forsdahl I. **Tidsskr Nor Laegeforen** 1990 Jun 30; 110(17):2192–7 (Eng. Abstr.) (Nor)

[Health status during the occupation years—morbidity] Gogstad AC, et al. **Tidsskr Nor Laegeforen** 1990 Jun 30; 110(17):2184–7 (Eng. Abstr.) (Nor)

[The medical situation in Bergen during the late medieval period described in the diary of Absalon Pedersøn in 1552–1572] Oeding P. **Tidsskr Nor Laegeforen** 1989 Dec 10;109(34–36):3578–81 (Eng. Abstr.) (Nor)

[The black death in Norway] Oeding P. **Tidsskr Nor Laegeforen** 1990 Jun 30;110(17):2204–8 (Eng. Abstr.) (Nor)

[Plague epidemics in Bergen and population crises] Oeding P. **Tidsskr Nor Laegeforen** 1989 Dec 10;109(34–36):3569–73 (Eng. Abstr.) (Nor)

[Experience with diagnosis and treatment of infectious diseases in extreme conditions (on the 45th anniversary of victory in World War II)] Ugriumov BL. **Klin Med (Mosk)** 1990 May;68(5):14–9 (Rus)

[The experience of World War II and the organization of epidemic control protection for a restricted contingent of Soviet troops in the Republic of Afghanistan] Perepelkin VS, et al. **Voen Med Zh** 1990 May;(5):73–7 (Rus)

LEGISLATION & JURISPRUDENCE

Confidentiality and informed consent and the acquired immunodeficiency syndrome epidemic. Lentz SL. **Arch Pathol Lab Med** 1990 Mar;114(3):304–8 (19 ref.)

The AIDS Litigation Project. A national review of court and human rights commission decisions, Part I: The social impact of AIDS [see comments] Gostin LO. **JAMA** 1990 Apr 11;263(14):1961–70 (320 ref.) Comment in: JAMA 1990 Apr 11;263(14):1972–4.

PREVENTION & CONTROL

How black and Latino community organizations respond to the AIDS epidemic: a case study in one New York City neighborhood. Freudenberg N, et al. **AIDS Educ Prev** 1989 Spring;1(1):12–21

A bridge to treatment: the needle exchange pilot program in New York City. Joseph SC. **AIDS Educ Prev** 1989 Winter;1(4):340–5

ACIP releases supplementary report on measles prevention. **Am Fam Physician** 1989 Apr;39(4):379

AIDS panel finds U.S. public health system lacking, urges national scheme to combat epidemic [news] **Am J Hosp Pharm** 1990 Mar;47(3):460, 463

The impact of the acquired immunodeficiency syndrome epidemic on the philosophy of childbirth. Rotmensch S, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):855–6

Partner notification: can it control epidemic syphilis? [see comments] Andrus JK, et al. **Ann Intern Med** 1990 Apr 1;112(7):539–43 Comment in: Ann Intern Med 1990 Apr 1;112(7):481–3.

Medical schools and immunization policies: missed opportunities for disease prevention. Poland GA, et al. **Ann Intern Med** 1990 Oct 15;113(8):628–31

Review of tsetse control measures taken in the Lambwe Valley in 1980–1984. Wellde BT, et al. **Ann Trop Med Parasitol** 1989 Aug;83 Suppl 1:119–25

Failure of influenza vaccine to prevent two successive outbreaks of influenza A H1N1 in a school community. Teare EL, et al. **Br J Gen Pract** 1990 Jan;40(330):10–2

Health education and the AIDS epidemic [published erratum appears in Br J Psychiatry 1989 Sep;155:424] Eisenberg L. **Br J Psychiatry** 1989 Jun;154:754–67 (100 ref.)

Operational studies on the control of Taenia solium taeniasis/cysticercosis in Ecuador [published erratum appears in Bull World Health Organ 1989;67(6):757] Cruz M, et al. **Bull World Health Organ** 1989;67(4):401–7

Measles prevention and control in emergency settings. Toole MJ, et al. **Bull World Health Organ** 1989;67(4):381–8

National Advisory Committee on Immunization (NACI). **Can Dis Wkly Rep** 1990 Jan 13;16(2):7–10 (Eng, Fre)

National Advisory Committee on Immunization (NACI) statement on influenza vaccination for the 1990–1991 season. **Can Dis Wkly Rep** 1990 Jun 23;16(25):117–21 (Eng, Fre)

Statement on recommended use of measles vaccine in Canada. **Can Med Assoc J** 1990 Aug 15;143(4):287–9

Rapid control of a chancroid outbreak: implications for Canada. Jessamine PG, et al. **Can Med Assoc J** 1990 May 15;142(10):1081–5

Measles outbreaks prompt pediatrics academy to call for two-dose immunization schedule [news] **Clin Pharm** 1989 Nov;8(11):760–1

CDSC: from Cox to Acheson. Galbraith NS. **Community Med** 1989 Aug;11(3):187–99

A healing-killing conflict in military research? Frisina M. **Hastings Cent Rep** 1989 Sep–Oct;19(5):2

Effectiveness of simple measures to control an outbreak of nosocomial methicillin-resistant Staphylococcus aureus infections in an intensive care unit. Guiguet M, et al. **Infect Control Hosp Epidemiol** 1990 Jan;11(1):23–6

Epidemic keratoconjunctivitis in a university medical center ophthalmology clinic; need for re-evaluation of the design and disinfection of instruments. Koo D, et al. **Infect Control Hosp Epidemiol** 1989 Dec;10(12):547–52

Simulation of mechanisms of viral interference in influenza. Ackerman E, et al. **Int J Epidemiol** 1990 Jun;19(2):444–54

Clindamycin in the treatment of an outbreak of streptococcal pharyngitis in a kibbutz due to beta-lactamase producing organisms. Raz R, et al. **J Chemother** 1990 Jun;2(3):182–4

A steep decline of death in a shigellosis epidemic in Bangladesh by a community—participated intervention. Islam Q, et al. **J Diarrhoeal Dis Res** 1988 Sep–Dec; 6(3–4):215–20

AIDS education and prevention programs for intravenous drug users: the California experience. Jang M, et al. **J Drug Educ** 1990;20(1):1–13

Control of an outbreak of nosocomial aspergillosis by laminar air-flow isolation. Barnes RA, et al. **J Hosp Infect** 1989 Aug;14(2):89–94

A laboratory-confirmed outbreak of rifampicin-methicillin resistant Staphylococcus aureus (RMRSA) in a newborn nursery. Coovadia YM, et al. **J Hosp Infect** 1989 Nov; 14(4):303–12

An outbreak of acinetobacter septicaemia in a neonatal intensive care unit. Ng PC, et al. **J Hosp Infect** 1989 Nov; 14(4):363–8

It's peacetime, but war against disease continues [news] Marwick C. **JAMA** 1990 Aug 22–29;264(8):944

Government issues guidelines to stem rising tuberculosis rates in prisons [news] Skolnick A. **JAMA** 1989 Dec 15; 262(23):3249, 3253

Helping Kansas youths to prevent sexually spread HIV infection. Brown MD. **Kans Med** 1990 Mar;91(3):70–2

An emerging light [editorial] Gray DE. **Kans Med** 1990 Mar; 91(3):52

AIDS and HIV: a national and state perspective. Konigsberg C Jr. **Kans Med** 1990 Mar;91(3):63–5, 78

Anonymous HIV testing [editorial] **Lancet** 1990 Mar 10; 335(8689):575–6

Prophylactic oral acyclovir in outbreaks of primary herpes simplex virus 1 infection [letter] Kuzushima K, et al. **Lancet** 1990 Apr 28;335(8696):1043

Screening hospital staff for antibodies to varicella-zoster virus [letter] Murray A, et al. **Lancet** 1990 Jul 21; 336(8708):192

Head louse treatment: is there an insecticide resistance problem? [letter] Goldsmid JM. **Med J Aust** 1990 Aug 20; 153(4):233–4

"Birthday card" reminders to increase measles immunization rates [letter] Jeffs DA, et al. **Med J Aust** 1989 Dec 4–18; 151(11–12):723

Health policy and the AIDS epidemic: the call for public health intervention: the use of legislation for prevention, its tasks and limits. Martin J. **Med Law** 1989;8(3):233–41

Influenza vaccination coverage levels in selected sites—United States, 1989 [published erratum appears in MMWR 1990 Mar 30;39(12):204] **MMWR** 1990 Mar 16; 39(10):159–60, 165–7

Arboviral surveillance—United States, 1990. **MMWR** 1990 Sep 7;39(35):593–8

Measles outbreak—Washington, 1989: failure of delayed postexposure prophylaxis with vaccine. **MMWR** 1990 Sep 14;39(36):617–9

Viral agents of gastroenteritis. Public health importance and outbreak management. LeBaron CW, et al. **MMWR** 1990 Apr 27;39 RR 5:1–24

American Academy of Pediatrics Committee on Infectious Diseases. Measles: reassessment of the current immunization policy [published erratum appears in Pediatrics 1990 May;85(5):714] **Pediatrics** 1989 Dec; 84(6):1110–3

Tower Hamlets Health Authority Measles Immunisation Initiative 1987–88. Hertogs D. **Public Health** 1989 Nov; 103(6):421–6

Evaluation of RIT 4237 bovine rotavirus vaccine in newborn infants: correlation of vaccine efficacy to season of birth in relation to rotavirus epidemic period. Ruuska T, et al. **Scand J Infect Dis** 1990;22(3):269–78

Public health and community-related consequences of the human immunodeficiency virus epidemic. Mayer KH. **Semin Oncol** 1990 Jun;17(3):261–8 (41 ref.)

Santayana's warning unheeded: the parallels of syphilis and acquired immune deficiency syndrome (AIDS). Bibel DJ. **Sex Transm Dis** 1989 Oct–Dec;16(4):201–9 (56 ref.)

Pediatric AIDS: prevention of HIV infection in infants and children. Mangos JA, et al. **Tex Med** 1990 Feb;86(2):46–9 (6 ref.)

An outbreak of influenza in Jamaica (1986). Figueroa JP, et al. **West Indian Med J** 1989 Sep;38(3):133–6

[Influenza immunization] Gerth HJ. **Dtsch Med Wochenschr** 1989 Nov 17;114(46):1810–1 (Ger)

[Epidemiology of Salmonella infections in the Lithuanian Soviet Republic and organizational principles in their prevention] Luksemburg K. **Przegl Epidemiol** 1989; 43(4):373–8 (Eng. Abstr.) (Pol)

[Evaluation of the quality of planning of anti-epidemic measures by the sanitary-epidemiological stations of the Ukraine] Proklina TL, et al. **Gig Sanit** 1989 Jul;(7):58–60 (Rus)

[The organization of medical evacuation and epidemic control measures in an earthquake zone] Korotkikh PP, et al. **Voen Med Zh** 1990 Feb;(2):24–6 (Rus)

[Experience in organizing epidemic control work in catastrophes] Perepelkin VS, et al. **Voen Med Zh** 1990 Apr; (4):56–9 (Eng. Abstr.) (Rus)

[The possibility of using an indirect method of fluorescent antibodies to the hepatitis A virus in epidemic control practice] Perepelkin VS, et al. **Voen Med Zh** 1989 Sep; (9):33–5 (Rus)

[The epidemiological sequelae of catastrophes and the tasks of the medical service in their elimination] Perepelkin VS, et al. **Voen Med Zh** 1990 Jan;(1):31–6 (Rus)

[The role of consultative offices on immunoprophylaxis in organizing epidemiologic surveillance of measles] Ignatov SA, et al. **Vrach Delo** 1990 Jan;(1):121–3 (Rus)

[A trial of using immunoglobulins of known specificity for preventing hepatitis A in regions with high epidemic activity] Schastnyl EI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):56–61 (Eng. Abstr.) (Rus)

STATISTICS & NUMERICAL DATA

The epidemiology of AIDS. George AM. **Acta Med Austriaca** 1990;17(1):1–5

Adenovirus type 7 outbreak in a kindergarten. Tóth M, et al. **Acta Microbiol Acad Sci Hung** 1965;12(1):39–43

Patterns of mortality in Armenian parish records from eleven countries. Armenian HK, et al. **Am J Epidemiol** 1989 Dec; 130(6):1227–35

Time–space clustering of teenage suicide. Gould MS, et al. **Am J Epidemiol** 1990 Jan;131(1):71–8

A community–wide outbreak of hepatitis A in a religious community: impact of mass administration of immune globulin. Pavia AT, et al. **Am J Epidemiol** 1990 Jun; 131(6):1085–93

An epidemic of acute hemorrhagic conjunctivitis in American Samoa caused by coxsackievirus A24 variant. Sawyer LA, et al. **Am J Epidemiol** 1989 Dec;130(6):1187–98

Conjunctivitis associated with methicillin–resistant Staphylococcus aureus in a long–term–care facility. Brennen C, et al. **Am J Med** 1990 May;88(5N):14N–17N

Cryptosporidium infection in Oregon public health clinic patients 1985–88: the value of statewide laboratory surveillance. Skeels MR, et al. **Am J Public Health** 1990 Mar;80(3):305–8

Possible causes leading to an epidemic outbreak of sleeping sickness: facts and hypotheses. Mbulamberi DB. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:173–9; discussion 212–4

Exporting death. Britain's malignant epidemic spreads to the developing world [editorial] Ball K. **Br J Addict** 1990 Mar; 85(3):313–4

Pertussis outbreak in the Yukon Territory—1989. Varughese PV, et al. **Can Dis Wkly Rep** 1990 Apr 7;16(14):63–7 **(Eng, Fre)**

Underreporting of AIDS cases in Canada: a record linkage study. Calzavara LM, et al. **Can Med Assoc J** 1990 Jan 1;142(1):36–9

Epidemic and endemic pattern of childhood nephritis. Pathogenesis, epidemiology and clinical course of outbreaks in Trinidad. McDowall MF, et al. **Clin Pediatr (Phila)** 1970 Oct;9(10):580–7

International increase in Salmonella enteritidis: a new pandemic? Rodrigue DC, et al. **Epidemiol Infect** 1990 Aug; 105(1):21–7

Projections of the HIV/AIDS epidemic for homosexual/bisexual men in France, the Federal Republic of Germany and the United Kingdom. Artzrouni M. **Eur J Epidemiol** 1990 Jun;6(2):124–35

An outbreak of hepatitis A in young adults in central Italy. Stroffolini T, et al. **Eur J Epidemiol** 1990 Jun;6(2):156–9

AIDS risk increases for some, National Research Council finds in ten–year review of epidemic [news] **Hosp Community Psychiatry** 1990 Aug;41(8):937–8

Inpatient suicide epidemics and suggestions for prevention. Rissmiller DJ, et al. **Hosp Community Psychiatry** 1990 Aug; 41(8):922–4

Kala–azar—an enigmatic disease. Hati AK. **Indian J Public Health** 1989 Apr–Jun;33(2):45–54 (31 ref.)

An EITor cholera outbreak in an endemic community of Calcutta. Sengupta PG, et al. **Indian J Public Health** 1989 Jan–Mar;33(1):21–5

An outbreak of EITor cholera in rural population of Barmer in Rajasthan State of India, Aug–Sep 1987. Soni GS, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):77–8

On the course of epidemics of some infectious diseases. En'ko PD. **Int J Epidemiol** 1989 Dec;18(4):749–55

Epidemic measles in an isolated unvaccinated population, India. Narain JP, et al. **Int J Epidemiol** 1989 Dec; 18(4):952–8

Risk factor analysis of an epidemic of hepatitis A in a factory in Shanghai. Wang JY, et al. **Int J Epidemiol** 1990 Jun; 19(2):435–8

Model–based optimization of infectivity parameters: a study of the early epidemic in San Francisco. Ahlgren DJ, et al. **J Acquir Immune Defic Syndr** 1990;3(6):631–43

Epidemic pneumonia in university students. Fernald GW, et al. **J Adolesc Health Care** 1989 Nov;10(6):520–6

An outbreak of an influenza–like illness in a nursing home. Osterweil D, et al. **J Am Geriatr Soc** 1990 Jun;38(6):659–62

Infection of staff during an outbreak of viral gastroenteritis in an elderly persons' home. Reid JA, et al. **J Hosp Infect** 1990 Jul;16(1):81–5

Association between respiratory syncytial virus outbreaks and lower respiratory tract deaths of infants and young children. Anderson LJ, et al. **J Infect Dis** 1990 Apr; 161(4):640–6

Threshold and stability results for an age–structured epidemic model. Inaba H. **J Math Biol** 1990;28(4):411–34

Outbreak of Salmonella food poisoning amongst delegates at a medical conference. Palmer SR, et al. **J R Coll Physicians Lond** 1990 Jan;24(1):26–9

From the Centers of Disease Control. Surveillance for epidemics—United States. **JAMA** 1989 Dec 1;262(21):2980

Farr's law applied to AIDS projections [see comments] Bregman DJ, et al. **JAMA** 1990 Mar 16;263(11):1522–5 Comment in: **JAMA** 1990 Mar 16;263(11):1538–9. Comment in: **JAMA** 1990 Mar 16;263(11):1539–40.

Projecting the incidence of AIDS [editorial; comment] Gail MH. **JAMA** 1990 Mar 16;263(11):1538–9 Comment on: **JAMA** 1990 Mar 16;263(11):1497–501. Comment on: **JAMA** 1990 Mar 16;263(11):1522–5.

AIDS policy into the 1990s [editorial; comment] Sherer R. **JAMA** 1990 Apr 11;263(14):1972–4 Comment on: **JAMA** 1990 Apr 11;263(14):1961–70.

Current and future dimensions of the HIV/AIDS pandemic in women and children. Chin J. **Lancet** 1990 Jul 28; 336(8709):221–4

Outbreak of kala–azar in the Sudan [letter] de Beer P, et al. **Lancet** 1990 Jan 27;335(8683):224

Outbreak of multiresistant non–encapsulated Haemophilus influenzae infections in a pulmonary rehabilitation centre [see comments] Sturm AW, et al. **Lancet** 1990 Jan 27; 335(8683):214–6 Comment in: Lancet 1990 Mar 3;335(8688):549. Comment in: Lancet 1990 Apr 14;335(8694):925.

Epidemiology of foodborne illness: North America. Todd E. **Lancet** 1990 Sep 29;336(8718):788–90 (25 ref.)

Dengue–3 in French Polynesia: preliminary data [letter] Chungue E, et al. **Med J Aust** 1990 May 21;152(10):557–8

Update: measles outbreak—Chicago, 1989. **MMWR** 1990 May 18;39(19):317–9, 325–6

Surveillance for epidemics—United States. **MMWR** 1989 Oct 13;38(40):694–6

Foodborne disease outbreaks, 5–year summary, 1983–1987. Bean NH, et al. **MMWR CDC Surveill Summ** 1990 Mar; 39(1):15–57

Waterborne disease outbreaks, 1986–1988. Levine WC, et al. **MMWR CDC Surveill Summ** 1990 Mar;39(1):1–13

HIV infection and AIDS: the numbers. Pazin GJ. **Pa Med** 1990 May;93(5):40–2

Asymptomatic human calicivirus infection in a day care center. Matson DO, et al. **Pediatr Infect Dis J** 1990 Mar; 9(3):190–6

Longitudinal study of Giardia lamblia infection in a day care center population. Rauch AM, et al. **Pediatr Infect Dis J** 1990 Mar;9(3):186–9

Epidemic Kaposi's sarcoma. Krigel RL, et al. **Semin Oncol** 1990 Jun;17(3):350–60 (71 ref.)

Estimating the initial relative infection rate for a stochastic epidemic model. Yip P. **Theor Popul Biol** 1989 Oct; 36(2):202–13

Measles in Milwaukee. Schlenker T, et al. **Wis Med J** 1990 Jul;89(7):403–7

[Outbreaks of asthma attacks and meteorological parameters—multivariate analysis] Ito S, et al. **Arerugi** 1989 Sep;38(9):1077–83 (Eng. Abstr.) **(Jpn)**

[Utilization of beds for monitoring infectious diseases in a hospital department not adapted for treating patients with infectious diseases] Mazurowska–Magdzik W, et al. **Przegl Epidemiol** 1989;43(4):438–42 (Eng. Abstr.) **(Pol)**

[The dynamics of the epidemic process in weakly endemic foci of opisthorchiasis in Kazakhstan] Gorbunova LA, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):57–60 (Eng. Abstr.) **(Rus)**

[The formulation of epidemiological hypotheses by using the methods of multivariate statistical analysis] Khodyrev AP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr; (4):40–5 (Eng. Abstr.) **(Rus)**

[The manifestations of an epidemic process of typhoid infection in Moscow] Kolpakov SL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):40–5 (Eng. Abstr.) **(Rus)**

[The general characteristics of the epidemic process and of the circulating streptococcal strains during an upsurge in scarlatina morbidity in Leningrad] Krasil'nikov IA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan;(1):33–7 (Eng. Abstr.) **(Rus)**

[An intrahospital outbreak of HIV infection in Elista] Pokrovskiĭ VV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr;(4):17–23 (Eng. Abstr.) **(Rus)**

[The indications for the use of different statistical methods of epidemiological analysis and delimitation in the assessment of a dynamic epidemic process] Shakhanina IL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr; (4):49–54 (Eng. Abstr.) **(Rus)**

[The epidemic process of an acute streptococcal respiratory infection in large organized collectives of children] Zhukov VV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan; (1):37–42 (Eng. Abstr.) **(Rus)**

[Epidemiologic study of a whooping cough outbreak in Rincón Grande, Veracruz] Navarrete–Navarro S, et al. **Bol Med Hosp Infant Mex** 1990 May;47(5):304–12 (Eng. Abstr.) **(Spa)**

VETERINARY

An outbreak of mucosal disease in a dairy herd. Løken T, et al. **Acta Vet Scand** 1989;30(3):321–7

The effect of a control program for enzootic bovine leukosis. Changes in herd prevalence in Denmark, 1969–1978. Gottschau A, et al. **Am J Epidemiol** 1990 Feb;131(2):356–64

New marine calicivirus serotype infective for swine. Berry ES, et al. **Am J Vet Res** 1990 Aug;51(8):1184–7

An outbreak of bucephalosis in fish of the Main river. Hoffmann RW, et al. **Angew Parasitol** 1990 May;31(2):95–9

A serious outbreak of canine distemper among sled–dogs in northern Greenland. Bohm J, et al. **Arctic Med Res** 1989 Oct;48(4):195–203

Poxviruses as vectors for veterinary vaccines. Boyle DB. **Aust Vet J** 1989 Dec;66(12):419–20 (4 ref.)

The significance of a major outbreak of quarantinable disease to the Australian horse industries. Clement RF, et al. **Aust Vet J** 1990 Feb;67(2):77–8

Congenital biliary atresia and jaundice in lambs and calves [published erratum appears in Aust Vet J 1990 May;67(5):167] Harper P, et al. **Aust Vet J** 1990 Jan; 67(1):18–22

A review of Australia's extensive grazing livestock industries: size, significance and disease status. MacAulay TG, et al. **Aust Vet J** 1989 Dec;66(12):386–92 (17 ref.)

Suspected salmonellosis in seven broodmares after transportation. McClintock SA, et al. **Aust Vet J** 1990 Jul; 67(7):265–7

Epidemiology of an avian influenza outbreak in Victoria in 1985. Morgan IR, et al. **Aust Vet J** 1990 Apr;67(4):125–8

Isolation of Mycoplasma synoviae from infectious synovitis of chickens. Morrow CJ, et al. **Aust Vet J** 1990 Apr; 67(4):121–4

Introduced animals and exotic disease: assessing potential risk and appropriate response. O'Brien PH. **Aust Vet J** 1989 Dec;66(12):382–5 (20 ref.)

Susceptibility of African buffaloes and Asiatic water buffaloes to foot–and–mouth disease [letter] Paine GD. **Aust Vet J** 1990 Feb;67(2):N24–5

An outbreak of listerial myelitis in sheep. Seaman JT, et al. **Aust Vet J** 1990 Apr;67(4):142–3

Bovine ephemeral fever and rhabdoviruses endemic to Australia. Walker PJ, et al. **Aust Vet J** 1989 Dec; 66(12):398–400 (27 ref.)

Avian influenza. Westbury HA. **Aust Vet J** 1989 Dec; 66(12):427–8 (30 ref.)

Epidemiologic studies on infectious coryza outbreaks in northern New South Wales, Australia, using serotyping, biotyping, and chromosomal DNA restriction endonuclease analysis. Blackall PJ, et al. **Avian Dis** 1990 Apr–Jun; 34(2):267–76

An outbreak of nephropathogenic H13 infectious bronchitis in commercial broilers. Butcher GD, et al. **Avian Dis** 1989 Oct–Dec;33(4):823–6

A primary epidemic of inclusion body hepatitis in broilers. Christensen NH, et al. **Avian Dis** 1989 Oct–Dec; 33(4):622–30

Pasteurella anatipestifer infections in California turkey flocks: circumstantial evidence of a mosquito vector. Cooper GL. **Avian Dis** 1989 Oct–Dec;33(4):809–15

An outbreak of Eimeria necatrix coccidiosis in breeder pullets: analysis of immediate and possible long–term effects on performance. McDougald LR, et al. **Avian Dis** 1990 Apr–Jun;34(2):485–7

Salmonella typhimurium outbreak in broiler chicken flocks in Mexico. Padron M. **Avian Dis** 1990 Jan–Mar;34(1):221–3

Detection of coronavirus–like particles from mink with epizootic catarrhal gastroenteritis. Gorham JR, et al. **Can J Vet Res** 1990 Jun;54(3):383–4

Porcine group C rotavirus as a cause of neonatal diarrhea in a Quebec swine herd. Morin M, et al. **Can J Vet Res** 1990 Jun;54(3):385–9

Detection of canine distemper viral antigen in formalin–fixed and paraffin–embedded tissue of a fitch (Mustela putorius), using an immunoperoxidase technique. Hewicker M, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):85–8

A case report: encephalitis in lions. Pathological and virological findings. Truyen U, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):89–91

A time series analysis of the rabies control programme in Chile. Ernst SN, et al. **Epidemiol Infect** 1989 Dec; 103(3):651–7

Myxomatosis in farmland rabbit populations in England and Wales. Ross J, et al. **Epidemiol Infect** 1989 Oct; 103(2):333–57

Trajectory analysis of winds and vesicular stomatitis in North America, 1982–5. Sellers RF, et al. **Epidemiol Infect** 1990 Apr;104(2):313–28

Trajectory analysis of winds and eastern equine encephalitis in USA, 1980–5. Sellers RF, et al. **Epidemiol Infect** 1990 Apr;104(2):329–43

An epizootic of whooping cough among chimpanzees in a zoo. Gustavsson OE, et al. **Folia Primatol (Basel)** 1990; 55(1):45–50

African horse sickness: a continuing menace. Brown CC, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):2019–21 (16 ref.)

Brucella ovis epizootic in virgin ram lambs. Bulgin MS. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1120–2

An overview of scrapie in the United States. Hadlow WJ. **J Am Vet Med Assoc** 1990 May 15;196(10):1676–7

Chlamydia spp infection in turkey flocks in Minnesota. Newman JA. **J Am Vet Med Assoc** 1989 Dec 1; 195(11):1528–30

Economic analysis of an epizootic of pseudorabies and subsequent production following the institution of a vaccination program in a Pennsylvania swine herd. Parsons TD, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):188–91

Some unusual features of mycobacteriosis in the cichlid fish Oreochromis mossambicus. Noga EJ, et al. **J Comp Pathol** 1990 Apr;102(3):335–44

Outbreak of simian hemorrhagic fever. Renquist D. **J Med Primatol** 1990;19(1):77–9

Intermediate host of Mediorhynchus orientalis (Acanthocephala: Gigantorhynchidae). Bolette DP. **J Parasitol** 1990 Aug;76(4):575–7

Land use associations and changes in population indices of urban raccoons during a rabies epizootic. Anthony JA, et al. **J Wildl Dis** 1990 Apr;26(2):170–9

Can androgen deficiency promote an outbreak of psoroptic mange mites in male deer? Bubenik GA. **J Wildl Dis** 1989 Oct;25(4):639–42

An epizootic of besnoitiosis in captive caribou (Rangifer tarandus caribou), reindeer (Rangifer tarandus tarandus) and mule deer (Odocoileus hemionus hemionus). Glover GJ, et al. **J Wildl Dis** 1990 Apr;26(2):186–95

Anthrax in cheetahs (Acinonyx jubatus) in Namibia. Jäger HG, et al. **J Wildl Dis** 1990 Jul;26(3):423–4

Western equine encephalitis in avian populations in North Dakota, 1975. McLean RG, et al. **J Wildl Dis** 1989 Oct; 25(4):481–9

Coronavirus–like virions associated with a wasting syndrome in guinea pigs. Jaax GP, et al. **Lab Anim Sci** 1990 Jul; 40(4):375–8

Isolation and reactivation of bovid herpesvirus 1 in goats. Tolari F, et al. **Microbiologica** 1990 Jan;13(1):67–71

Bovine tuberculosis—Pennsylvania. **MMWR** 1990 Mar 30; 39(12):201–3

Outbreak of neonatal canine herpesvirus infection in a specific pathogen–free beagle colony. Kojima A, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):145–54

An outbreak of bovine ephemeral fever in Nagasaki Prefecture in 1988. Nagano H, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):307–14

Occurrence of a canine distemper–like disease in aquarium seals. Nunoya T, et al. **Nippon Juigaku Zasshi** 1990 Jun; 52(3):469–77

An outbreak of contagious bovine pleuropneumonia in the Owambo Mangetti area of South West Africa/Namibia: microbiological, immunofluorescent, pathological and serological findings. Trichard CJ, et al. **Onderstepoort J Vet Res** 1989 Dec;56(4):277–84

Outbreaks of babesiosis in domestic livestock in the eastern region of the Sudan. Mohamed AA, et al. **Trop Anim Health Prod** 1990 May;22(2):123–5

Corynebacterium pseudotuberculosis infection in camels (Camelus dromedarius) in Saudi Arabia. Radwan AI, et al. **Trop Anim Health Prod** 1989 Nov;21(4):229–30

A morbillivirus causing mass mortality in seals. Osterhaus A. **Vaccine** 1989 Dec;7(6):483–4

Feed additives and contaminants as a cause of equine disease. Whitlock RH. **Vet Clin North Am Equine Pract** 1990 Aug; 6(2):467–78 (61 ref.)

Observations on the pathogenicity for sheep and goats and the transmissibility of the strain of virus isolated during the rinderpest outbreak in Sri Lanka in 1987. Anderson EC, et al. **Vet Microbiol** 1990 Feb;21(4):309–18

Pathological findings indicative of distemper in European seals. Bergman A, et al. **Vet Microbiol** 1990 Jun; 23(1–4):331–41

Evidence that Cache Valley virus induces congenital malformations in sheep. Chung SI, et al. **Vet Microbiol** 1990 Feb;21(4):297–307

The occurrence of ephemeral fever in Kenya, 1968–1988. Davies FG, et al. **Vet Microbiol** 1990 Apr;22(2–3):129–36

Mass mortality in seals caused by a newly discovered virus–like morbillivirus. Osterhaus AD, et al. **Vet Microbiol** 1990 Jun;23(1–4):343–50 (18 ref.)

A severe outbreak of respiratory tract disease associated with bovine respiratory syncytial virus probably enhanced by vaccination with modified live vaccine. Kimman TG, et al. **Vet Q** 1989 Oct;11(4):250–3

International disease surveillance. Quarterly report October to December 1989. **Vet Rec** 1990 Feb 24;126(8):183–4

Digital dermatitis control [letter; comment] **Vet Rec** 1990 Feb 24;126(8):200–1 Comment on: Vet Rec 1990 Feb 3;126(5):120.

Use of long–acting oxytetracycline against pasteurellosis in lambs. Appleyard WT, et al. **Vet Rec** 1990 Mar 10; 126(10):231–2

Bovine fluorosis following volcanic activity in the southern Andes. Araya O, et al. **Vet Rec** 1990 Jun 30;126(26):641–2

Bovine digital dermatitis. Bassett HF, et al. **Vet Rec** 1990 Feb 17;126(7):164–5

Bovine malignant catarrh outbreak [letter] Bonn JM. **Vet Rec** 1990 May 12;126(19):490

An epidemic of besnoitiosis in goats in Kenya. Bwangamoi O, et al. **Vet Rec** 1989 Oct 28;125(18):461

European brown hare syndrome and associated virus particles in the UK. Chasey D, et al. **Vet Rec** 1990 Jun 23;126(25):623–4

Anthrax outbreak [letter] Edwards DB, et al. **Vet Rec** 1989 Aug 12;125(7):161

Aspergillosis in gentoo penguins (Pygoscelis papua) at Edinburgh Zoo, 1964 to 1988. Flach EJ, et al. **Vet Rec** 1990 Jan 27;126(4):81–5

Winter dysentery in adult dairy cattle. Fleetwood AJ, et al. **Vet Rec** 1989 Nov 25;125(22):553–4

Taylorella equigenitalis isolated from an aborted foal. Fontijne P, et al. **Vet Rec** 1989 Nov 4;125(19):485

Duck virus enteritis in Great Britain, 1980 to 1989. Gough RE, et al. **Vet Rec** 1990 Jun 16;126(24):595–7

Necrotic hepatitis of rabbits in Mexico: a parvovirus. Gregg DA, et al. **Vet Rec** 1989 Dec 9;125(24):603–4

Salmonella typhimurium infection in a commercial rabbitry. Harwood DG. **Vet Rec** 1989 Nov 25;125(22):554–5

Acute necrotising hepatitis in Danish farmed hares. Henriksen P, et al. **Vet Rec** 1989 Nov 4;125(19):486–7

Salmonella enteritidis infection in pheasant chicks and poults [see comments] Hosie BD, et al. **Vet Rec** 1990 Jan 13; 126(2):39–40 Comment in: Vet Rec 1990 Feb 10;126(6):148.

An outbreak of botulism in captive hamadryas baboons (Papio hamadryas). Lewis JC, et al. **Vet Rec** 1990 Mar 3;126(9):216–7

Otitis externa in a foxhound pack associated with Candida albicans. McKellar QA, et al. **Vet Rec** 1990 Jul 7; 127(1):15–6

Detection of contagious pustular dermatitis virus of goats in a severe outbreak. Mazur C, et al. **Vet Rec** 1989 Oct 14;125(16):419–20

Caseous lymphadenitis outbreak [letter] Meldrum KC. **Vet Rec** 1990 Apr 14;126(15):369

African horse sickness in Saudi Arabia. Mellor PS, et al. **Vet Rec** 1990 Jul 14;127(2):41–2

Vaccination during URT disease in kittens [letter] Morris TH. **Vet Rec** 1990 Mar 10;126(10):250

Equine influenza [letter] Mumford JA. **Vet Rec** 1989 Dec 23–30;125(26–27):656

Aujeszky's disease in foxhounds [letter; comment] Murdoch RS. **Vet Rec** 1990 Mar 3;126(9):226 Comment on: Vet Rec 1990 Jan 6;126(1):13–5.

Rinderpest in Nigeria [letter] Nawathe DR, et al. **Vet Rec** 1990 Jul 14;127(2):46

Different morbilliviruses in European and Siberian seals. Osterhaus AD, et al. **Vet Rec** 1989 Dec 23–30; 125(26–27):647–8

Encephalomyocarditis of swine in Greece. Paschaleri–Papadopoulou E, et al. **Vet Rec** 1990 Apr 14; 126(15):364–5

Disease in single suckled beef herds [letter] Pritchard G, et al. **Vet Rec** 1990 Jan 20;126(3):67–8

First case of type A botulism in zebu (Bos indicus). Schocken–Iturrino RP, et al. **Vet Rec** 1990 Mar 3; 126(9):217–8

Peste des petits ruminants of sheep in India. Shaila MS, et al. **Vet Rec** 1989 Dec 9;125(24):602

Outbreaks of rinderpest in wild and domestic animals in Nigeria. Shanthikumar SR, et al. **Vet Rec** 1990 Mar 31; 126(13):306–7

Comparison of vaccine strains and the virus causing the 1986 foot–and–mouth disease outbreak in Spain: epizootiological analysis. Carrillo C, et al. **Virus Res** 1990 Jan;15(1):45–55

Bovine diarrhea associated with Campylobacter hyointestinalis. Diker KS, et al. **Zentralbl Veterinarmed [B]** 1990 Mar;37(2):158–60

Crane hepatitis herpesviruses. Foerster S, et al. **Zentralbl Veterinarmed [B]** 1989 Aug;36(6):433–41

Herpesvirus in harbour seals (Phoca vitulina): isolation, partial characterization and distribution. Frey HR, et al. **Zentralbl Veterinarmed [B]** 1989 Nov;36(9):699–708

Sylvatic rabies in Italy: epidemiology. Irsara A, et al. **Zentralbl Veterinarmed [B]** 1990 Feb;37(1):53–63

Morbillivirus infection of seals (Phoca vitulina) during the 1988 epidemic in the Bay of Heligoland. I. Mode, frequency and significance of cultural virus isolation and neutralizing antibody detection. Liess B, et al. **Zentralbl Veterinarmed [B]** 1989 Oct;36(8):601–8

Morbillivirus infection among seals (Phoca vitulina) during the 1988 epidemic in the Bay of Heligoland. II. Serogological investigations reflecting a previous phocine distemper epidemic in a seal orphanage. Liess B, et al. **Zentralbl Veterinarmed [B]** 1989 Nov;36(9):709–14

Camel papillomatosis in Somalia. Munz E, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):191–6

[Gumboro's disease continues to claim attention: a case report] Braunius WW, et al. **Tijdschr Diergeneeskd** 1990 Mar 1;115(5):207–11 (Eng. Abstr.) **(Dut)**

[Pathological changes in Streptobacillus moniliformis infection of C57bl/6J mice] Kaspareit–Rittinghausen J, et al. **Berl Munch Tierarztl Wochenschr** 1990 Mar 1; 103(3):84–7 (Eng. Abstr.) **(Ger)**

[The first appearance of infectious hemorrhagic disease of rabbits in Austria] Kölbl S, et al. **Berl Munch Tierarztl Wochenschr** 1990 Aug 1;103(8):261–6 (Eng. Abstr.) **(Ger)**

[Results of a serological study of the natural spread of maedi–visna virus infection in a sheep herd during an observation period of 30 months] Leitold B, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):15–20 (Eng. Abstr.) **(Ger)**

[Conclusions from the outbreak of foot–and–mouth disease in the government district of Hannover in 1987/1988] Strohmaier K. **DTW Dtsch Tierarztl Wochenschr** 1990 May; 97(5):210–2 (10 ref.) (Eng. Abstr.) **(Ger)**

[Progression and control of leptospirosis in a sow herd] Waldmann KH. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):39–42 (Eng. Abstr.) **(Ger)**

[Current information on the subject of African horse sickness (AHS)] Kihm U, et al. **Schweiz Arch Tierheilkd** 1990; 132(4):205–10 (4 ref.) (Eng. Abstr.) **(Ger)**

[Herpesvirus epidemic in Greek (Testudo hermanni) and Moorish land tortoises (Testudo graeca) in Switzerland] Müller M, et al. **Schweiz Arch Tierheilkd** 1990; 132(4):199–203 (Eng. Abstr.) **(Ger)**

[Endemic poxvirus infection in white storks (Ciconia ciconia) and black storks (Ciconia nigra) in Switzerland] Zangger N, et al. **Schweiz Arch Tierheilkd** 1990;132(3):135–8 (Eng. Abstr.) **(Ger)**

[Epidemic deaths of wild birds after Aeromonas hydrophila infection] Korbel R, et al. **Tierarztl Prax** 1989;17(3):297–8 (Eng. Abstr.) **(Ger)**

[Epizootic–epidemiologic aspects of the Salmonella infection chain in poultry production] Heider G. **Z Gesamte Hyg** 1989 Nov;35(11):643–5 (Eng. Abstr.) **(Ger)**

[The significance of disinfection in control of veterinary communicable diseases] Jovtschev E. **Z Gesamte Hyg** 1990 Feb;36(2):106 (Eng. Abstr.) **(Ger)**

DISEASE RESERVOIRS

see related
CARRIER STATE
COMMUNICABLE DISEASE CONTROL
COMMUNICABLE DISEASES
DISEASE VECTORS
ZOONOSES

Canine visceral leishmaniasis in northeast Brazil: assessment of serodiagnostic methods. Evans TG, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):118–23

Experimental infection of the nine–banded armadillo (Dasypus novemcinctus) with Schistosoma mansoni (Kenyan strain). Smith JH, et al. **Am J Trop Med Hyg** 1988 May;38(3):499–507

Concurrent human and canine histoplasmosis from cutting decayed wood. Davies SF, et al. **Ann Intern Med** 1990 Aug 1;113(3):252–3

The dog as natural reservoir host for Paragonimus uterobilateralis in Liberia, West Africa. Sachs R, et al. **Ann Trop Med Parasitol** 1990 Feb;84(1):101–2

The human nasopharynx as a reservoir for Epstein–Barr virus. Takimoto T, et al. **Auris Nasus Larynx** 1989; 16(2):109–15

Distribution of freshwater gastropods in the lower River Niger and Cross River basins of southeastern Nigeria with reference to their trematode infections. Okafor FC. **Beitr Trop Landwirtsch Veterinarmed** 1990;28(2):207–16

Are cattle significant reservoirs of Coxiella? [letter; comment] van Dreumel T, et al. **Can J Vet Res** 1989 Oct;53(4):500–2 Comment on: Can J Vet Res 1989 Jan;53(1):1–6.

Mycologic investigation on Rhizomys pruinous senex in Guangxi as natural carrier with Penicillium marneffei. Li JC, et al. **Chin Med J [Engl]** 1989 Jun;102(6):477–85

Serological response of chickens to Salmonella enteritidis infection. Chart H, et al. **Epidemiol Infect** 1990 Feb; 104(1):63–71

The epidemiology of enterococci. Chenoweth C, et al. **Eur J Clin Microbiol Infect Dis** 1990 Feb;9(2):80–9 (103 ref.)

Borrelia burgdorferi and Babesia microti: efficiency of transmission from reservoirs to vector ticks (Ixodes dammini). Mather TN, et al. **Exp Parasitol** 1990 Jan; 70(1):55–61

Cat—a source of human parasitic infection. Sur SK, et al. **Indian J Public Health** 1988 Oct–Dec;32(4):211

Salmonella in snakes of the Gran Chaco, Paraguay. Description of the "new" flagellar antigen RZ72. Wuthe HH, et al. **Int J Med Microbiol** 1989 Nov;272(1):65–70

Review of the epidemiology of chlamydiosis in the United States. Williams LP Jr. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1518–21 (13 ref.)

Contamination of currency notes with enteric bacterial pathogens. Khin Nwe Oo, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):92–4

Survey of viruses of the gut in 10,477 children admitted to general paediatric wards from 1981 to 1986. Peigue–Lafeuille HH, et al. **J Hosp Infect** 1989 Nov; 14(4):375–8

Pertussis and its prevention: a family affair [comment] Mortimer EA Jr. **J Infect Dis** 1990 Mar;161(3):473–9 (41 ref.) Comment on: J Infect Dis 1990 Mar;161(3):480–6. Comment on: J Infect Dis 1990 Mar;161(3):487–92.

Intravenous drug users: the only important reservoir of delta virus in Spain [letter] Pérez–Trallero E, et al. **J Infect Dis** 1990 Jan;161(1):152

Detection of rabies virus antibodies in fruit bats (Eidolon helvum) from Nigeria. Aghomo HO, et al. **J Wildl Dis** 1990 Apr;26(2):258–61

The role of medium–sized mammals as reservoirs of Borrelia burgdorferi in southern New York. Fish D, et al. **J Wildl Dis** 1990 Jul;26(3):339–45

Serologic survey of selected zoonotic disease agents in black–tailed jack rabbits from western Texas. Henke SE, et al. **J Wildl Dis** 1990 Jan;26(1):107–11

Legionella and fountains [letter] Schlech WF 3d. **Lancet** 1990 Sep 1;336(8714):576

Serodiagnosis of leprosy in patients' contacts by enzyme–linked immunosorbent assay. Gonzalez–Abreu E, et al. **Lepr Rev** 1990 Jun;61(2):145–50

Zoonotic cutaneous leishmaniasis due to Leishmania (Viannia) braziliensis associated with domestic animals in Venezuela and Brazil. Aguilar CM, et al. **Mem Inst Oswaldo Cruz** 1990 Jan–Mar;84(1):19–28

Cerdocyon thous (L.) (Carnivora, Canidae) naturally infected with Leishmania donovani chagasi (Cunha & Chagas, 1973) in Corumbá (Mato Grosso do Sul State, Brazil). Mello DA, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;83(2):259

Epidemiology of Yersiniae in Barcelona, Spain. Gurgui M, et al. **Microbiologia** 1988 Jun;4(2):107–16

Hand–to–hand transmission of herpes simplex virus type 1. Bardell D. **Microbios** 1989;59(239):93–100

Keratinophilic fungi on sheep hairs from the West Bank of Jordan. Ali–Shtayeh MS, et al. **Mycopathologia** 1989 May; 106(2):95–101

An attempt to eradicate bovine leukemia virus infection in a public pasture. Itoh H, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):661–3

Introduction of an improved direct agglutination test for the detection of Leishmania infantum infection in southern France. de Korte PM, et al. **Parasitol Res** 1990;76(6):526–30

The intermediate host of Angiostrongylus costaricensis in

Honduras. Morera P, et al. **Rev Biol Trop** 1988 Nov; 36(2B):575–6

Epizootiology of Borrelia in Ixodes tick vectors and reservoir hosts. Anderson JF. **Rev Infect Dis** 1989 Sep–Oct;11 Suppl 6:S1451–9 (116 ref.)

Hantavirus infection in the United States: epizootiology and epidemiology. Yanagihara R. **Rev Infect Dis** 1990 May–Jun; 12(3):449–57 (51 ref.)

Didelphis marsupialis, an apparent wild reservoir of Leishmania donovani chagasi in Colombia, South America. Corredor A, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):195

Active transmission of Leishmania braziliensis braziliensis in the Serra de Mar forest, São Paulo, Brazil. Gomes A de C, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr; 83(2):193

Epizootiology of Chagas disease near a forest settlement in French Guiana. Julien–Laferrière D, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):202–7

Prevalence of Giardia in dogs and cats in the United Kingdom: survey of an Essex veterinary clinic. Winsland JK, et al. **Trans R Soc Trop Med Hyg** 1989 Nov–Dec; 83(6):791–2

Absence of Ornithodoros moubata, the vector of African swine fever virus, from the main pig producing area of Cameroon. Ekue NF, et al. **Trop Anim Health Prod** 1990 May;22(2):127–31

[The natural foci of the tsutsugamushi disease in the suburbs of Hang Zhou City] Shi S. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Apr; 11(2):65–7 (Eng. Abstr.) **(Chi)**

[Snail distribution and susceptible zones of schistosomiasis in endemic areas around Poyang Lake] Zhang S, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):8–12 (Eng. Abstr.) **(Chi)**

[Occurrence of zoonoses in a natural reservoir in the West Bohemian Region. I. Tick–borne encephalitis—basic epidemiologic characteristics] Farník J, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Mar;39(2):113–9 (Eng. Abstr.) **(Cze)**

[Natural foci of Lyme borreliosis] Rosický B, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Mar;39(2):88–94 (Eng. Abstr.) **(Cze)**

[Animal reservoir of Trypanosoma (Trypanozoon) brucei gambiense in Central africa] Kageruka P. **Ann Soc Belg Med Trop** 1989;69 Suppl 1:155–63; discussion 212–4 (Eng. Abstr.) **(Fre)**

[Urogenital bilharziasis in Algeria. 2. Present status of the reservoirs in the south–west] Chellali A, et al. **Arch Inst Pasteur Alger** 1986;55:143–6 **(Fre)**

[Mollusks linked to the problem of schistosomiasis in Algeria] Kechemir N. **Arch Inst Pasteur Alger** 1986;55:215–37 (55 ref.) (Eng. Abstr.) **(Fre)**

[Transmission of visceral leishmaniasis with studies of dogs in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989; 3:41–50 (Eng. Abstr.) **(Ger)**

[Stationary and migratory avifauna as reservoirs of Salmonella, Yersinia and Campylobacter] Levrè E, et al. **Ann Ig** 1989 May–Aug;1(3–4):729–40 (Eng. Abstr.) **(Ita)**

[Detection of the foci of familial toxoplasmosis in rural environment] Umiński J, et al. **Wiad Parazytol** 1989; 35(4):289–97 (Eng. Abstr.) **(Pol)**

[Natural infection of wild rodents by Schistosoma mansoni] Silva TM, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun; 84(2):227–35 (Eng. Abstr.) **(Por)**

[The present situation of osteoarticular tuberculosis in the general endemic context of tuberculosis in the Socialist Republic of Romania] Anastasatu C, et al. **Rev Ig [Pneumoftiziol]** 1989 Jan–Mar;38(1):85–92 **(Rum)**

[The activization of an Ashkhabad focus of anthroponotic cutaneous leishmaniasis] Dobrzhanskaia RS, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):71–4 (Eng. Abstr.) **(Rus)**

[Clinico–parasitological research in a focus of intestinal nematodiasis in Habak Province (the Socialist Republic of Vietnam) and the efficacy of medamine treatment in these infestations] Khoang TK, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):27–9 (Eng. Abstr.) **(Rus)**

[Clinico–parasitological research in a mixed focus of clonorchiasis and intestinal nematodiasis in Hanamnin Province (the Socialist Republic of Vietnam)] Kieu TL, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):24–6 (Eng. Abstr.) **(Rus)**

[The 50th anniversary of the theory of natural foci of human diseases] Kucheruk VV. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):3–4 **(Rus)**

[Characteristics of taeniarhynchiasis foci in various physical geographic areas of the Azerbaijan SSR] Nadzhafov IG. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):50–3 (Eng. Abstr.) **(Rus)**

[Serologic examination of the population of cleaned–up foci of visceral leishmaniasis in the territory of the Uzbek SSR] Nizamov BB, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec; (6):28–31 (Eng. Abstr.) **(Rus)**

[Chemotherapy, patient immune status and the outlook for immunocorrection in parasitic diseases (exemplified by natural–focus invasions)] Ozeretskovskaia N. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):5–12 (60 ref.) (Eng. Abstr.) **(Rus)**

[Clinico–immunologic indices of various patient contingents in a focus of chronic opisthorchiasis. 3. Dynamics of the indices following praziquantel treatment] Parfenov SB, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):72–5 (Eng. Abstr.) **(Rus)**

[Screening of plasmids in museum strains of Yersinia pestis isolated from various natural foci] Ivanova VS, et al. **Mol Gen Mikrobiol Virusol** 1990 Mar;(3):16–8 (Eng. Abstr.) **(Rus)**

[The efficiency of Rhadinopsylla rothschildi and R. dahurica fleas as vectors of the causative agent of plague in a Transbaikal natural focus] Gan NV, et al. **Parazitologiia** 1990 Mar–Apr;24(2):151–4 (Eng. Abstr.) **(Rus)**

[The systemic immunity of schoolchildren from foci of tuberculosis infection] Kostromina VP, et al. **Probl Tuberk** 1989;(9):25–8 (Eng. Abstr.) **(Rus)**

[Features of distribution of ixodes ticks and anthropogenic foci of tick–borne encephalitis in Leningrad] Smyslova TO, et al. **Tr Inst Pastera** 1989;65:40–9 **(Rus)**

[Experience in conducting an epidemiological health reconnaissance of a natural plague focus] Borodai AP, et al. **Voen Med Zh** 1990 Mar;(3):56–8 **(Rus)**

[Endemic foci of hemorrhagic fever with renal syndrome in the North–Western region of the European part of the USSR] Avtushenko LA, et al. **Vopr Virusol** 1989 Nov–Dec; 34(6):702–4 (Eng. Abstr.) **(Rus)**

[Area and natural reservoirs of hemorrhagic fever virus with kidney syndrome in the Far East of the USSR] Ivanov LI, et al. **Vopr Virusol** 1989 Sep–Oct;34(5):595–8 (Eng. Abstr.) **(Rus)**

[Characteristics of endemic foci of hemorrhagic fever with renal syndrome in various regions of the USSR] Leshchinskaia EV, et al. **Vopr Virusol** 1990 Jan–Feb; 35(1):42–5 (Eng. Abstr.) **(Rus)**

[Features of a natural focus of hemorrhagic fever with a kidney syndrome in various regions of the Crimea] Markeshin SIa, et al. **Vopr Virusol** 1989 Jul–Aug; 34(4):485–8 **(Rus)**

[Epidemiologic surveillance of obligate transmissible rickettsiosis with natural foci] Iastrebov VK. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Mar;(3):94–8 (16 ref.) **(Rus)**

[The 50th anniversary of the discovery of natural foci of tularemia in the Caucasus] Pilipenko VG. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Mar;(3):118–23 **(Rus)**

[A trial of using immunoglobulins of known specificity for preventing hepatitis A in regions with high epidemic activity] Schastnyĭ EI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):56–61 (Eng. Abstr.) **(Rus)**

[Tick–borne encephalitis in a northern zone of coniferous and broad–leaved forests of a focal region of the Amur River basin] Vereta LA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):38–43 (Eng. Abstr.) **(Rus)**

[Wild reservoirs of Trypanosoma cruzi in the State of Oaxaca, Mexico] Domínguez Vázquez A, et al. **Bol Chil Parasitol** 1988 Jul–Dec;43(3–4):64–5 (Eng. Abstr.) **(Spa)**

[New hosts for Helicometrina nimia Linton, 1910 (Digenea: Opecoelidae) in the south–center coast of Chile] Inzunza A, et al. **Bol Chil Parasitol** 1989 Jan–Jun;44(1–2):41–3 (Eng. Abstr.) **(Spa)**

[Xenodiagnosis using Lutzomyia youngi in Venezuelan cases of cutaneous leishmaniasis due to Leishmania braziliensis] Rojas E, et al. **Mem Inst Oswaldo Cruz** 1990 Jan–Mar; 84(1):29–34 (Eng. Abstr.) **(Spa)**

[Experimental evolutive cycle of Diphyllobothrium erinaceieuropei in Paracyclops fimbriatus, tadpoles of Bufo arenarum and dogs] Venturini L. **Rev Inst Med Trop Sao Paulo** 1989 Sep–Oct;31(5):308–12 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

[The current situation of osteoarticular tuberculosis in the context of general tuberculosis endemic in the People's Republic of Romania] Anastasatu C, et al. **Rev Ig [Pneumoftiziol]** 1989 Oct–Dec;38(4):375–82 **(Rum)**

[Comprehensive assessment of an opisthorchiasis focus in the Komi–Permiak Autonomous Okrug] Bronshtein AM, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):66–72 (Eng. Abstr.) **(Rus)**

[The dynamics of the epidemic process in weakly endemic foci of opisthorchiasis in Kazakhstan] Gorbunova LA, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):57–60 (Eng. Abstr.) **(Rus)**

[A natural opisthorchiasis foci in Kazakhstan] Gorbunova LA. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):63–6 (Eng. Abstr.) **(Rus)**

[Schistosomiasis in the Republic of Guinea (its territorial districting)] Kamara M, et al. **Med Parazitol (Mosk)** 1990 Jan–Feb;(1):46–51 (Eng. Abstr.) **(Rus)**

[The spread and evaluation of the potential for the formation of new foci of opisthorchiasis and diphyllobothriasis in the Yenisei basin] Ploshcheva GL, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):54–60 (Eng. Abstr.) **(Rus)**

[The current status of the Turgai focus of opisthorchiasis] Smailova AN. **Med Parazitol (Mosk)** 1990 Jan–Feb;(1):42–3 (Eng. Abstr.) **(Rus)**

[The organization of prophylactic measures among children living in rural foci of tuberculous infection] Zakharova RI, et al. **Probl Tuberk** 1989;(12):16–8 (Eng. Abstr.) **(Rus)**

[Proteinuria and beta 2–microglobulinuria in patients with tumors of the renal pelvis and ureter and in healthy persons from areas of endemic nephropathy] Janković, et al. **Urol Nefrol (Mosk)** 1989 Nov–Dec;(6):13–4 (Eng. Abstr.) **(Rus)**

[Morbidity from zoonotic and natural–focus infections and the problems of their prevention in the USSR] Kondrusev AI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec; (12):106–8 **(Rus)**

[Geographical variants in the immunological structure of the population in combined foci of tick–borne encephalitis and endemic rickettsiosis in the European part of the USSR] Vorontsova TA. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):45–50 (Eng. Abstr.) **(Rus)**

VETERINARY

Epidemiologic classics. Woodward TE. **Md Med J** 1990 Mar; 39(3):267–71

[Blood groups of great gerbils (Rhombomys opimus Licht.) as an indicator of population resistance to infections] Ergaliev KKh, et al. **Genetika** 1990 Jan;26(1):103–8 (Eng. Abstr.) **(Rus)**

[The role of the owsianka Leucaspius delineatus in maintaining opisthorchiasis foci in Novosibirsk Province] Fedorov KP, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec; (6):64–7 (Eng. Abstr.) **(Rus)**

[A test of the use of an immunoenzyme method for demonstrating the tick–borne encephalitis virus in various foci] Bochkova NG, et al. **Vopr Virusol** 1990 Mar–Apr; 35(2):165–7 **(Rus)**

DISEASE RESISTANCE see **IMMUNITY, NATURAL**

DISEASE SUSCEPTIBILITY

see related

HEMORRHAGIC DIATHESIS

Effective testing of gene–disease associations. Swift M, et al. **Am J Hum Genet** 1990 Aug;47(2):266–74

Experimental autoimmune encephalomyelitis in the maturing central nervous system. Transfer of myelin basic protein–specific T line lymphocytes to neonatal Lewis rats. Umehara F, et al. **Lab Invest** 1990 Feb;62(2):147–55

[Effect of different kinds of feeding on morbidity during the first year of life] García Llop LA, et al. **An Esp Pediatr** 1989 Jun;30(6):483–7 (Eng. Abstr.) **(Spa)**

[The HLA system and predisposition to diseases] Ercilla MG. **Med Clin (Barc)** 1989 Dec 16;93(20):775–7 (19 ref.) **(Spa)**

CHEMICALLY INDUCED

Susceptibility to virus infection with exposure to nitrogen dioxide. Kulle TJ, et al. **Res Rep Health Eff Inst** 1988 Jan; (15):5–21

ETIOLOGY

Biogeophysical aspects of population health at high latitudes. Deryapa NR. **Arctic Med Res** 1988;47 Suppl 1:79–82 (17 ref.)

Environment, society and health. Quality of life issues in the contemporary north. Freeman MM. **Arctic Med Res** 1988; 47 Suppl 1:53–9 (20 ref.)

GENETICS

MHC genes in HLA–associated disease. Nepom GT. **Curr Opin Immunol** 1989–90 Apr;2(4):588–92 (20 ref.)

The biodemography of variation in human frailty. Weiss KM. **Demography** 1990 May;27(2):185–206

On the measurement of susceptibility to genetic factors. Khoury MJ, et al. **Genet Epidemiol** 1989;6(6):699–711 (22 ref.)

An epidemiologic approach to gene–environment interaction. Ottman R. **Genet Epidemiol** 1990;7(3):177–85

The Human Genome Project promises insights into aging. Gordon J. **Geriatrics** 1989 Nov;44(11):89–91

Penetrance and low concordance in monozygotic twins in disease: are they the results of alterations in somatic genomes? Kastern W, et al. **Mol Reprod Dev** 1988; 1(1):63–75 (131 ref.)

HLA and disease—the perils of simplification [editorial; comment] Segall M, et al. N **Engl J Med** 1990 Jun 28; 322(26):1879–81 Comment on: N Engl J Med 1990 Jun 28;322(26):1836–41. Comment on: N Engl J Med 1990 Jun 28;322(26):1842–4.

IMMUNOLOGY

Genes of the immune response: disease associations. Cox DW. **Genome** 1989;31(2):1085–6

Pathogen–host interaction. Fraschini F, et al. **J Chemother** 1990 Jun;2(3):190–8

PSYCHOLOGY

Accelerating the coping process. Pennebaker JW, et al. **J Pers Soc Psychol** 1990 Mar;58(3):528–537

Posttraumatic stress disorder: somatic comorbidity and effort tolerance. Shalev A, et al. **Psychosomatics** 1990 Spring; 31(2):197–203

[Disease and illness] Kokko S. **Duodecim** 1989; 105(23–24):1896–904 (43 ref.) **(Fin)**

DISEASE VECTORS

Population dynamics model for Bulinus globosus, intermediate host for Schistosoma haematobium, in river habitats. Woolhouse ME, et al. **Acta Trop (Basel)** 1990 Mar; 47(3):151–60

Pet turtles: a continuing international threat to public health. D'Aoust JY, et al. **Am J Epidemiol** 1990 Aug;132(2):233–8

Human schistosomiasis in Cameroon. II. Distribution of the snail hosts. Greer GJ, et al. **Am J Trop Med Hyg** 1990 Jun;42(6):573–80

Consequences of rural development on vectors and their control. Coosemans M, et al. **Ann Soc Belg Med Trop** 1990 Mar;70(1):5–23 (94 ref.)

Biological control of Biomphalaria glabrata and B. straminea by the competitor snail Thiara tuberculata in a transmission site of schistosomiasis in Martinique, French West Indies. Pointier JP, et al. **Ann Trop Med Parasitol** 1989 Jun; 83(3):263–9

Distribution of freshwater gastropods in the lower River Niger and Cross River basins of southeastern Nigeria with reference to their trematode infections. Okafor FC. **Beitr Trop Landwirtsch Veterinarmed** 1990;28(2):207–16

Fertile flukes and mediating molluscs. Marsden PD. **BMJ** 1990 Feb 3;300(6720):311–2

Oral immunization of foxes against rabies: practical experiences of a field trial in the Federal Republic of Germany. Wilhelm U, et al. **Bull World Health Organ** 1990; 68(1):87–92

Studies on fresh water snails, specific intermediate hosts for schistosomiasis—IV. Isolation of haemolymph from native and chemically pretreated snails. Nabih I, et al. **Cell Mol Biol** 1989;35(6):597–602

The susceptibility of different gastropod species to the infection with Varestrongylus sagittatus (Mueller, 1890) Dougherty, 1945. Rezáč P. **Folia Parasitol (Praha)** 1990; 37(2):141–9

Toxoplasma gondii. Zygmunt DJ. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):207–11

The granulocyte response of Bulinus africanus to infection with compatible and non-compatible trematode parasites. Wolmarans CT, et al. **Int J Parasitol** 1990 May;20(3):315–8

On the distribution of schistosome infections among host snails. Woolhouse ME, et al. **Int J Parasitol** 1990 May; 20(3):325–7

Potential for the spread of Fasciola hepatica in cattle in Oklahoma. Cheriuyot HK, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1090–4

Brucella abortus infection in 14 farm dogs. Forbes LB. **J Am Vet Med Assoc** 1990 Mar 15;196(6):911–6

Calculation of water volume in step wells for cyclopicide application and its eco-epidemiological implication: mathematical validation of some theoretical considerations. Saxena VK, et al. **J Commun Dis** 1989 Sep;21(3):222–8

Involvement of Mesocyclops leuckarti (claus) in the transmission of guineaworm infection in Thane Distt., Maharashtra. Sharma SK, et al. **J Commun Dis** 1989 Dec; 21(4):365–7

Carriage of enteric bacterial pathogens by house flies in Yangon, Myanmar. Khin Nwe Oo, et al. **J Diarrhoeal Dis Res** 1989 Sep–Dec;7(3–4):81–4

Experimental observations on the specificity of Apatemon (Australapatemon) minor (Yamaguti 1933) (Digenea: Strigeidae) toward leech (Hirudinea) second intermediate hosts. McCarthy AM. **J Helminthol** 1990 Jun;64(2):161–7

Single and dual infections of the land snail Helix aspersa with Muellerius capillaris and Alloionema appendiculatum (Nematoda). Cabaret J, et al. **J Parasitol** 1990 Aug; 76(4):579–80

The effect of Schistosoma haematobium infection on the growth and fecundity of three sympatric species of bulinid snails. Fryer SE, et al. **J Parasitol** 1990 Aug;76(4):557–63

Schistosomiasis on Bohol Island, Philippines, with special emphasis on the successful discovery of new habitats of the vector snail, Oncomelania quadrasi, and area-wide mollusciciding. Yasuraoka K, et al. **Jpn J Exp Med** 1989 Aug;59(4):149–55

Leishmaniasis in Bolivia—VI. Observations on Lutzomyia nuneztovari anglesi Le Pont & Desjeux, 1984 the presumed vector of tegumentary leishmaniasis in the Yungas focus. Le Pont F, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun; 84(2):277–8

Isolation of Trypanosoma freitasi (Kinetoplastida: Trypanosomatidae) from Psychodopygus claustrei (Diptera: Psychodidae). Naiff RD, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;84(2):273–5

Pseudechinoparyphium echinatum (Digenea: Echinostomatidae): experimental observations on cercarial specificity toward second intermediate hosts. McCarthy AM, et al. **Parasitology** 1990 Jun;100 Pt 3:423–8

Comparative study of sheep and buffalo isolates of Fasciola gigantica in the intermediate host Lymnaea auricularia. al-Kubaisee RY, et al. **Res Vet Sci** 1989 Sep;47(2):273–4

Japanese encephalitis causing public health problems in southwest Asia. The SEAMEO-Tropmed technical meeting. Bangkok, Thailand, 13–15 June 1989. Proceedings. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):557–654

Lymnaea (Bullastra) cumingiana Pfeiffer (Pulmonata: Lymnaeidae): second intermediate host of Echinostoma malayanum in the Philippines. Monzon RB, et al. **Southeast Asian J Trop Med Public Health** 1989 Sep; 20(3):453–60

Control of Japanese encephalitis vectors. Wada Y. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):623–6 (17 ref.)

The potential role of various species of intermediate hosts of Schistosoma haematobium in Saudi Arabia. Arfaa F, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr; 83(2):216–8

Cystic echinococcosis in the Xinjiang/Uygur Autonomous Region, People's Republic of China. I. Demographic and epidemiologic data. Chi P, et al. **Trop Med Parasitol** 1990 Jun;41(2):157–62

Human community ecology of urinary schistosomiasis in relation to snail vector bionomics in the Igwun River Basin of Nigeria. Udonsi JK. **Trop Med Parasitol** 1990 Jun; 41(2):131–5

Genetic variability in the compatibility between Schistosoma haematobium and its potential vectors in Niger. Epidemiological implications. Véra C, et al. **Trop Med Parasitol** 1990 Jun;41(2):143–8

Land snails and periods at high risk for protostrongylid infection on a sheep-grazed pasture of northeast Tunisia. Lahmar S, et al. **Vet Parasitol** 1990 May;36(1–2):105–15

Angiostrongylus vasorum: transmission in south east England. Cobb MA, et al. **Vet Rec** 1990 May 26;126(21):529

Rabies. Bat rabies. **Wkly Epidemiol Rec** 1990 Jan 26; 65(4):24–5 **(Eng, Fre)**

Alveolar echinococcosis. **Wkly Epidemiol Rec** 1990 Feb 9; 65(6):37–8 **(Eng, Fre)**

[Mollusks linked to the problem of schistosomiasis in Algeria] Kechemir N. **Arch Inst Pasteur Alger** 1986;55:215–37 (55 ref.) (Eng. Abstr.) **(Fre)**

[Resistance to drought of mollusks of the genus Bulinus, vectors of human and animal trematode infections in Senegal. II. Study under natural conditions in the North-Sudan area. Ecology and resistance to drought of Bulinus umbilicatus and B. senegalensis] Diaw OT, et al. **Rev Elev Med Vet Pays Trop** 1989;42(2):177–87 (Eng. Abstr.) **(Fre)**

[Distribution of Biomphalaria tenagophila and B. occidentalis in the State of São Paulo (Brazil)] Teles HM. **Rev Saude Publica** 1989 Jun;23(3):244–53 (Eng. Abstr.) **(Por)**

[The role of the owsianka Leucaspius delineatus in maintaining opisthorchiasis foci in Novosibirsk Province] Fedorov KP, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec; (6):64–7 (Eng. Abstr.) **(Rus)**

[Population contacts in the Republic of Guinea with ectoparasites and rodents based on questionnaire data. 1. The tasks and the scope of the questionnaire] Lapshov VA, et al. **Med Parazitol (Mosk)** 1990 Jan–Feb;(1):23–9 (Eng. Abstr.) **(Rus)**

[The efficacy of antirabies treatment in human bites by a rabid wolf in Chernigov Province] Misenko LI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug;(8):107–9 **(Rus)**

[Population density of intermediary hosts of tropical diseases in watercress beds] Ferrer López JR, et al. **Rev Cubana Med Trop** 1989 Sep–Dec;41(3):341–54 (Eng. Abstr.) **(Spa)**

[A worm in the peritoneum. Risks in the consumption of shellfish and raw fish (editorial)] Arias Vallejo E. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 2):669 **(Spa)**

DISEASES IN TWINS

Incontinentia pigmenti in identical twins with separate skin and neurological disorders. Tanaka K, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):267–8

Familial lichen planus [letter] Valsecchi R, et al. **Acta Derm Venereol (Stockh)** 1990;70(3):272–3

Proceedings of the Sixth International Congress on Twin Studies. Rome: 28–31 August 1990. **Acta Genet Med Gemellol (Roma)** 1990;39(1):1–136

Sixth International Congress on Twin Studies. Rome, 28–31 August 1989. Abstracts. **Acta Genet Med Gemellol (Roma)** 1989;38(1–2):77–250

Does the respiratory distress syndrome in twins and singletons run different risks of persistent ductus arteriosus? Zanardo V, et al. **Acta Genet Med Gemellol (Roma)** 1989; 38(3–4):315–8

MS and SLE in twins of successive generations. Kinnunen E, et al. **Acta Neurol Scand** 1990 Mar;81(3):246–9

Dandy-Walker syndrome: follow up of an unoperated case and her identical twin. Shen EY. **Acta Paediatr Sin** 1989 Nov–Dec;30(6):422–7

The occurrence of primary pulmonary hypertension in twins with a review of etiological considerations. Czarnecki SW, et al. **Am Heart J** 1968 Feb;75(2):240–6 (41 ref.)

Concordant total anomalous pulmonary venous connection in dizygotic twins. Gleason MM. **Am Heart J** 1989 Dec; 118(6):1338–40 (25 ref.)

Discordance for ulcerative colitis in identical twins concordant for cholestatic liver disease. Report of 2 cases. Gregg JA, et al. **Am J Dig Dis** 1970 Jul;15(7):667–71

Congenital cardiovascular malformations in twins and triplets from a population-based study. Berg KA, et al. **Am J Dis Child** 1989 Dec;143(12):1461–3

Effect of a factor VIII concentrate on type IIB von Willebrand's disease-associated thrombocytopenia presenting during pregnancy in identical twin mothers. Ieko M, et al. **Am J Hematol** 1990 Sep;35(1):26–31

Genetic and environmental influences on echocardiographically determined left ventricular mass in black twins. Harshfield GA, et al. **Am J Hypertens** 1990 Jul;3(7):538–43

Blood sampling and transfusion in utero suggested in the pumping twin [letter; comment] Jakobi P, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1632–3 Comment on: Am J Obstet Gynecol 1989 May;160(5 Pt 1):1194–6.

Perinatal outcome of forty-nine pregnancies complicated by acardiac twinning. Moore TR, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):907–12

An intervention program for a fraternal twin with Down syndrome. Edwards SJ, et al. **Am J Occup Ther** 1990 May; 44(5):454–8

Comorbidity of major depression and anxiety disorders in twin pairs. Torgersen S. **Am J Psychiatry** 1990 Sep; 147(9):1199–202

Partitioning environmental and genetic contributions to behavioral development. Loehlin JC. **Am Psychol** 1989 Oct; 44(10):1285–92 (31 ref.)

Bullous emphysema in monozygotic twins. Nelson P, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1796–9

Recovery from two different intravenous induction techniques in identical twins [letter] Mackenzie JW. **Anaesthesia** 1990 Jan;45(1):69

Malignant melanomas in twins. Katzenellenbogen I, et al. **Arch Dermatol** 1966 Sep;94(3):331–2

Confirming unexpressed genotypes for schizophrenia. Risks in the offspring of Fischer's Danish identical and fraternal discordant twins. Gottesman II, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):867–72

Offspring of monozygotic twins discordant for schizophrenia. Kringlen E, et al. **Arch Gen Psychiatry** 1989 Oct; 46(10):873–7

Chronic myelocytic leukemia and identical twins. Additional evidence of the Philadelphia chromosome as postzygotic abnormality. Goh KO, et al. **Arch Intern Med** 1967 Aug; 120(2):214–9

Primary pulmonary hypertension occurring in twins. Porter CM, et al. **Arch Intern Med** 1967 Aug;120(2):224–9

Viral antibodies in multiple sclerosis. A nationwide co-twin study. Kinnunen E, et al. **Arch Neurol** 1990 Jul;47(7):743–6

Nonarteritic ischemic optic neuropathy in identical female twins: improvement of visual outcome in one by optic nerve decompression [letter] Manor RS. **Arch Ophthalmol** 1990 Aug;108(8):1067–8

Infectoepidemilogic and immunologic implications of Campylobacter coli enteritis in one newborn monozygotic twin pair. Fernández H, et al. **Arq Gastroenterol** 1989 Jan–Jun;26(1–2):28–32

Precocious puberty in a monozygous twin: report of case. Rasmussen P. **ASDC J Dent Child** 1990 Mar–Apr; 57(2):142–6

Clinical manifestations of the thrombocytopenia and absent radii (TAR) syndrome. Gounder DS, et al. **Aust N Z J Med** 1989 Oct;19(5):479–82

Change in cohabitation and intrapair similarity of monozygotic (MZ) cotwins for alcohol use, extraversion, and neuroticism. Kaprio J, et al. **Behav Genet** 1990 Mar; 20(2):265–76

Hypertrophic cardiomyopathy in identical twins. Reid JM, et al. **Br Heart J** 1989 Nov;62(5):384–8

Autism: current understanding and management. Le Couteur A. **Br J Hosp Med** 1990 Jun;43(6):448–52 (75 ref.)

Multiple sclerosis and occupational exposure to chemicals: a co-twin control study of a nationwide series of twins. Juntunen J, et al. **Br J Ind Med** 1989 Jun;46(6):417–9

Familial glioma: a report of glioblastoma in identical twins and oligo-astrocytoma in siblings. Hardman PD, et al. **Br J Neurosurg** 1989;3(6):709–15 (17 ref.)

Monozygotic twins with obsessive-compulsive disorder. Kim SW, et al. **Br J Psychiatry** 1990 Mar;156:435–8

Follow-up of monozygotic twins concordant for the Rett syndrome. Tariverdian G. **Brain Dev** 1990;12(1):125–7

Anatomical correlates of normal and impaired language in a set of dizygotic twins. Plante E, et al. **Brain Lang** 1989 Nov;37(4):643–55

Omphalocele affecting both members of a twin pregnancy. Yuzpe AA, et al. **Can Med Assoc J** 1968 Aug 24–31; 99(8):374–6

The contribution of HLA to rheumatoid arthritis. Deighton CM, et al. **Clin Genet** 1989 Sep;36(3):178–82 (34 ref.)

Twin concordance for dishonorable discharge from the military: with a review of the genetics of antisocial behavior. Centerwall BS, et al. **Compr Psychiatry** 1989 Sep–Oct;30(5):442–6 (20 ref.)

Identical twins with idiopathic external hydrocephalus. Cundall DB, et al. **Dev Med Child Neurol** 1989 Oct; 31(5):678–81

B-cell responses to intravenous glucose and glucagon in non-diabetic twins of patients with type 1 (insulin-dependent) diabetes mellitus. Heaton DA, et al. **Diabetologia** 1989 Nov;32(11):814–7

Clinicoelectrographic concordance between monozygotic twins with severe myoclonic epilepsy in infancy. Fujiwara T, et al. **Epilepsia** 1990 May–Jun;31(3):281–6

Calcific aortic stenosis in twins: a clue to its pathogenesis? Lewis NP, et al. **Eur Heart J** 1990 Jan;11(1):90–1

Congenital cytomegalovirus infection in a twin pregnancy: a case report. Duvekot JJ, et al. **Eur J Pediatr** 1990 Jan; 149(4):261–2

The contribution of protein catabolism to metabolic decompensation in 3-hydroxy-3-methylglutaric aciduria. Thompson GN, et al. **Eur J Pediatr** 1990 Feb;149(5):346-50

Crohn's disease in four members of a family, two of whom are dizygotic twins. Purrmann J, et al. **Hepatogastroenterology** 1990 Feb;37(1):81-2

Trisomy 18 in monozygotic twins. Mulder AF, et al. **Hum Genet** 1989 Oct;83(3):300-1

von Willebrand's disease in identical twins. Sivasankaran P, et al. **Indian J Pediatr** 1989 May-Jun;56(3):435-7

Conjoined twins and abdominal pregnancy. Offringa PJ, et al. **Int J Gynaecol Obstet** 1989 Sep;30(1):73-6

Hyperthyroidism in identical adolescent male twins. Traisman ES, et al. **J Adolesc Health Care** 1990 Mar; 11(2):173-5

On being a twin: how the view may differ for each of the pair [see comments] Dimitrovsky L. **J Am Acad Psychoanal** 1989 Winter;17(4):639-53 Comment in: J Am Acad Psychoanal 1989 Winter;17(4):689-90.

Comments on "On Being a Twin: How the View May Differ for Each of the Pair," by Lilly Dimitrovsky, M.D. [letter; comment] Ortmeyer DH. **J Am Acad Psychoanal** 1989 Winter;17(4):689-90 Comment on: J Am Acad Psychoanal 1989 Winter;17(4):639-53.

Idiopathic thoracic kyphosis in identical twins. Carr AJ. **J Bone Joint Surg [Br]** 1990 Jan;72(1):144

A twin study of hyperactivity--II. The aetiological role of genes, family relationships and perinatal adversity. Goodman R, et al. **J Child Psychol Psychiatry** 1989 Sep; 30(5):691-709

Congenital double elevator palsy in identical twins. Bell JA, et al. **J Clin Neuro Ophthalmol** 1990 Mar;10(1):32-4

Congenital malaria in one identical twin [letter] Cummins D, et al. **J Clin Pathol** 1990 Jul;43(7):609

Lymphocyte activation in discordant multiple sclerosis twin pairs. Konttinen YT, et al. **J Neuroimmunol** 1990 Apr; 27(1):1-8

Indomethacin and ischemic brain injury in neonates [letter; comment] Haddad J, et al. **J Pediatr** 1990 May; 116(5):839-40 Comment on: J Pediatr 1989 Oct;115(4):631-7.

Secondary carnitine deficiency in the newborn period in twins of a mother with partial ornithine transcarbamylase deficiency. Nagao M, et al. **J Pediatr** 1989 Oct;115(4):611-4

Different clinical presentation of gastroesophageal reflux in twins [letter] Iacono G, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):142

Bile plug syndrome: successful management with a mucolytic agent. Brown DM. **J Pediatr Surg** 1990 Mar;25(3):351-2

Congenital bilateral eventration of the diaphragm in a pair of male twins. Elberg JJ, et al. **J Pediatr Surg** 1989 Nov; 24(11):1140-1

Bile duct stricture in an infant with gastroschisis treated by percutaneous transhepatic drainage, biliary stenting, and balloon dilation. Hancock BJ, et al. **J Pediatr Surg** 1989 Oct;24(10):1071-3

Jejunal atresia in twins. Moorman-Voestermans CG, et al. **J Pediatr Surg** 1990 Jun;25(6):638-9

Necrotizing enterocolitis in multiple-birth infants. Powell RW, et al. **J Pediatr Surg** 1990 Mar;25(3):319-21

Placental emboli from a fetus papyraceous. Wagner DS, et al. **J Pediatr Surg** 1990 May;25(5):538-42

Visual diagnosis casebook. Epignathus. Vohra K, et al. **J Perinatol** 1989 Dec;9(4):448-50

Phenotypic differences in upper genital tract abnormalities and reproductive history in dizygotic twins exposed to diethylstilbestrol in utero. A case report. Claman P, et al. **J Reprod Med** 1990 Apr;35(4):431-3

Adult Still's disease in only one of identical twins. Brandwein SR, et al. **J Rheumatol** 1989 Dec;16(12):1599-601

Seropositive rheumatoid arthritis in monozygotic twin sisters carrying HLA-DR4 or DR4 associated with B27. Tarp U, et al. **J Rheumatol** 1989 Dec;16(12):1530-2

Intrauterine fetal growth in discordant twin gestations. Rodis JF, et al. **J Ultrasound Med** 1990 Aug;9(8):443-8

HTLV-I associated myelopathy in an identical twin [letter] Motomura M, et al. **Lancet** 1990 Jul 7;336(8706):53

Allergic bronchopulmonary aspergillosis [letter; comment] Simmonds EJ, et al. **Lancet** 1990 May 19;335(8699):1229 Comment on: Lancet 1990 Apr 21;335(8695):947.

Familial vocal cord dysfunction associated with digital anomalies. Hawkins DB, et al. **Laryngoscope** 1990 Sep; 100(9):1001-4 (10 ref.)

Twin studies and the genetics of Parkinson's disease--a reappraisal. Johnson WG, et al. **Mov Disord** 1990; 5(3):187-94

Abnormalities in the brain and schizophrenia [letter] **N Engl J Med** 1990 Aug 23;323(8):545-8

Anatomical abnormalities in the brains of monozygotic twins discordant for schizophrenia [published erratum appears in N Engl J Med 1990 May 31;322(22):1616] [see comments] Suddath RL, et al. **N Engl J Med** 1990 Mar 22; 322(12):789-94 Comment in: N Engl J Med 1990 Mar 22;322(12):842-5.

Partial dystrophin deficiency in monozygous twin carriers of the Duchenne gene discordant for clinical myopathy. Bonilla E, et al. **Neurology** 1990 Aug;40(8):1267-70

Monozygotic twins discordant for Alzheimer's disease. Creasey H, et al. **Neurology** 1989 Nov;39(11):1474-6

Failure of etretinate therapy in twins with severe congenital lamellar ichthyosis. Waisman Y, et al. **Pediatr Dermatol** 1989 Sep;6(3):226-8

Pathology of intragestational intervention in twin-to-twin transfusion syndrome. Baldwin VJ, et al. **Pediatr Pathol** 1990;10(1-2):79-93

Complications from in utero death of a monozygous co-twin. Fisher JE, et al. **Pediatr Pathol** 1989;9(6):765-71

Placental protein distribution in maternal diabetes mellitus: an immunocytochemical study. Greco MA, et al. **Pediatr Pathol** 1989;9(6):679-90

Primary central nervous malignant melanoma in the bathing trunk naevus syndrome. Salisbury JR, et al. **Postgrad Med J** 1989 Jun;65(764):387-9

Left handedness in an identical twin discordant to his co-twin for handedness and schizophrenia, with neurological and psychometric evidence of left hemisphere damage. Weller MP. **Postgrad Med J** 1990 Mar;66(773):224-6

Prenatal diagnosis of Turner syndrome using cells cultured from cystic hygromas in two pregnancies with normal maternal serum alpha-fetoprotein. Golden WL, et al. **Prenat Diagn** 1989 Oct;9(10):683-9

Malformations in monozygotic twins--two case histories. Millsted P. **Radiogr Today** 1990 May;56(636):18-21

Tracheobronchial clearance in asthma-discordant monozygotic twins. Svartengren M, et al. **Respiration** 1989; 56(1-2):70-9

Wiedemann-Beckwith syndrome with congenital central hypothyroidism in one of monozygotic twins. Chien CH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Feb;89(2):132-6

Congenital rubella infection: escape of one monozygotic twin with two amnions, one chorion, and single placenta. Wang LN, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Jan;89(1):30-3

[A not-previously described hereditary neurological disease with a deficiency of sialic acid, galactose and N-acetylglucosamine of plasma glycoproteins] Jacken J. **Verh K Acad Geneeskd Belg** 1989;51(4):377-406 (Eng. Abstr.) **(Dut)**

[Multiple congenital esophago-tracheal fistulas (excluding atresia of the esophagus). Review of the literature, apropos of a new case] Coupris L, et al. **Chir Pediatr** 1989; 30(5):181-6 (18 ref.) (Eng. Abstr.) **(Fre)**

[Mouth breathing and facial growth: the evidence of twins] Deplagne H, et al. **Orthod Fr** 1986;57 Pt 2:695-701 (Eng. Abstr.) **(Fre)**

[Discordant evolution in monozygotic twins with familial nephropathy] Falque V, et al. **Pediatrie** 1989;44(5):375-7 (Eng. Abstr.) **(Fre)**

[Neonatal ischemic necrosis of the arm in a premature infant] Guidicelli J, et al. **Pediatrie** 1989;44(7):551-4 (Eng. Abstr.) **(Fre)**

[Are monozygous twins and twin-specific abnormalities more prevalent following extracorporeal fertilization? A comment on studies of the Gynecologic Clinic of the Erlangen-Nürnberg University] Pfeiffer RA, et al. **Geburtshilfe Frauenheilkd** 1989 Sep;49(9):813-6 (Eng. Abstr.) **(Ger)**

[Congenital malaria--a rare neonatal infection] Vogt M, et al. **Monatsschr Kinderheilkd** 1990 Apr;138(4):224-6 (Eng. Abstr.) **(Ger)**

[Primary ciliary dyskinesia syndrome. Ultrastructural observations in a pair of twins] Markmann HU, et al. **Pathologe** 1990 Mar;11(2):80-4 **(Ger)**

[Familial spontaneous pneumothorax in three siblings including identical twins] Moriguchi A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1283-7 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Monozygotic twin with idiopathic hemochromatosis in a diabetic family] Ikeda A, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):913-8 **(Jpn)**

[Prophylaxis in severe congenital neonatal varicella. Apropos of two cases] Rubio Quiñones F, et al. **An Esp Pediatr** 1989 Dec;31(6):580-2 (Eng. Abstr.) **(Spa)**

[Multicystic encephalomalacia in twin pregnancies] Sans Fito A, et al. **An Esp Pediatr** 1990 Feb;32(2):163-6 (Eng. Abstr.) **(Spa)**

[Aortic atresia with hypoplastic left ventricle. Bidimensional echocardiographic correlation. Anatomy of 14 cases] Modesto C, et al. **Rev Esp Cardiol** 1990 Apr;43(4):266-70 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Williams syndrome in twins. Murphy MB, et al. **Am J Med Genet Suppl** 1990;6:97-9

Brain damage in monozygous twins. Larroche JC, et al. **Biol Neonate** 1990;57(5):261-78

Multiple identical stress fractures in monozygotic twins. Case report. Singer A, et al. **J Bone Joint Surg [Am]** 1990 Mar; 72(3):444-5

Hyperthyroidism and hypothyroidism in monozygotic twins: detection of stimulating and blocking THS receptor antibodies using the FRTL5-cell line. Ilicki A, et al. **J Endocrinol Invest** 1990 Apr;13(4):327-31

Thanatophoric dysplasia in identical twins [letter; comment] Knisely AS. **J Med Genet** 1989 Nov;26(11):735-6 Comment on: J Med Genet 1989 Apr;26(4):276-9.

Magnetic resonance imaging studies in multiple sclerosis twins. Uitdehaag BM, et al. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1417-9

Determination of serum ferritin in the evaluation of iron depletion and iron over load in chronic twin-to-twin transfusion syndrome. Caglar MK, et al. **J Perinat Med** 1989;17(5):357-9

When does death occur in an acardiac twin? Ultrasound diagnostic difficulties. Fusi L, et al. **J Perinat Med** 1990; 18(3):223-7

Discordant human immunodeficiency virus infection in dizygotic twins detected by polymerase chain reaction. Young KK, et al. **Pediatr Infect Dis J** 1990 Jun;9(6):454-6

Maternal serum alpha-fetoprotein screening for open neural tube defects in twin pregnancies. Cuckle H, et al. **Prenat Diagn** 1990 Feb;10(2):71-7

Alpha-fetoprotein and acetylcholinesterase in twins discordant for neural tube defect. Johnson VP, et al. **Prenat Diagn** 1989 Dec;9(12):831-7 (15 ref.)

Prostate cancer occurring in identical twins: a case report. Spaas PG, et al. **Prostate** 1990;16(3):219-23

[Abnormal regulation of carnitine palmitoyltransferase in monozygotic twins as the cause of rhabdomyolysis] Schröder JP, et al. **Dtsch Med Wochenschr** 1990 Mar 2; 115(9):337-9 (Eng. Abstr.) **(Ger)**

[The humanus amorphus (acardius)] Kirsch M, et al. **Gynakol Rundsch** 1989;29 Suppl 2:456-9 **(Ger)**

[Perinatal imaging diagnosis in twin pregnancies with humanus amorphus] Natho W, et al. **Zentralbl Gynakol** 1990;112(11):679-88 (Eng. Abstr.) **(Ger)**

[Ultrasonic diagnosis of cerebellar hemorrhage in newborn infants. Apropos of 2 cases] Tomà P, et al. **Minerva Pediatr** 1990 Apr;42(4):161-4 (Eng. Abstr.) **(Ita)**

[Significance of twin to twin transfusion syndrome in the prognosis of twin pregnancies and its prenatal diagnosis by ultrasonography] Okane M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jun; 42(6):599-604 (Eng. Abstr.) **(Jpn)**

[A case of familial atypical pseudohypertrophic proximal progressive muscular dystrophy] Badalian LO, et al. **Sov Med** 1989;(9):96-100 **(Rus)**

EMBRYOLOGY

Monochorionic twinning: sonographic assessment. Filly RA, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):459-69 (49 ref.)

EPIDEMIOLOGY

The estimation of probandwise concordance in twins: the effect of unequal ascertainment. Kendler KS, et al. **Acta Genet Med Gemellol (Roma)** 1989;38(3-4):253-70

Congenital anomalies in twins in Northern Ireland. III: Anomalies of the cardiovascular system, 1974-1978. Little J, et al. **Acta Genet Med Gemellol (Roma)** 1989; 38(1-2):27-35

Congenital anomalies in twins in Northern Ireland. I: Anomalies in general and specific anomalies other than neural tube defects and of the cardiovascular system, 1974-1979. Little J, et al. **Acta Genet Med Gemellol (Roma)** 1989;38(1-2):1-16

Congenital anomalies in twins in Northern Ireland. II: Neural tube defects, 1974-1979. Little J, et al. **Acta Genet Med Gemellol (Roma)** 1989;38(1-2):17-25

Prognosis for twins with birth weight less than 1500 gm: the impact of cesarean section in relation to fetal presentation. Rydhström H. **Am J Obstet Gynecol** 1990 Aug;163(2):528-33

Incidence and some perinatal problems of multiple pregnancies in a central referral hospital, Addis Ababa. Korsak VS. **Ethiop Med J** 1989 Oct;27(4):217-21

Bivariate survival models for analysis of genetic and environmental effects in twins. Thomas DC, et al. **Genet Epidemiol** 1990;7(2):121-35

Increased risk of primary invasive Haemophilus influenzae type B disease in twins. Takala AK, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):799-800

Sudden infant death syndrome in twins. Beal S. **Pediatrics** 1989 Dec;84(6):1038-44

[Alzheimer's disease in monozygotic twins (review of the literature)] Moskalenko VD. **Zh Nevropatol Psikhiatr** 1989; 89(9):138-42 (9 ref.) **(Rus)**

ETHNOLOGY

Blood pressure in blacks. Twin studies in Barbados. Grim CE, et al. **Hypertension** 1990 Jun;15(6 Pt 2):803-9

ETIOLOGY

[Current theories on the etiology of multiple sclerosis] Zavalishin IA. **Zh Nevropatol Psikhiatr** 1990;90(2):3-8 (20 ref.) (Eng. Abstr.) **(Rus)**

[Alveolitis occurs even during childhood, and the causes can be found in the home environment] Belin L, et al. **Lakartidningen** 1989 Dec 13;86(50):4427-30 **(Swe)**

GENETICS

A possible model for the genetics of certain diseases. Brown DW. **Acta Biotheor (Leiden)** 1990 Mar;38(1):73

Appendectomy in Australian twins [letter] Duffy DL, et al. **Am J Hum Genet** 1990 Sep;47(3):590-2

Do twin Lyons have larger spots? Nance WE. **Am J Hum Genet** 1990 Apr;46(4):646-8

Skewed X inactivation in a female MZ twin results in Duchenne muscular dystrophy. Richards CS, et al. **Am J Hum Genet** 1990 Apr;46(4):672-81

Psychosocial development in a genetic male surgically reassigned as a female at birth. Gupta S. **Am J Psychother** 1990 Apr;44(2):283-9

Bronchial reactivity and atopy in asthma discordant

monozygotic twins. Svartengren M, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):124–8

Genetic and environmental factors in sciatica. Evidence from a nationwide panel of 9365 adult twin pairs. Heikkilä JK, et al. **Ann Med** 1989 Oct;21(5):393–8

Hereditary factors and "angina pectoris". A study on 5,877 twin–pairs with the aid of mailed questionnaires. Cederlöf R, et al. **Arch Environ Health** 1967 Mar;14(3):397–400

Hereditary factors, "spontaneous cough" and "smoker's cough". A study on 7,800 twin–pairs with the aid of mailed questionnaires. Cederlöf R, et al. **Arch Environ Health** 1967 Mar;14(3):401–6

Corpus callosum curvature in schizophrenic twins [letter] Casanova MF, et al. **Biol Psychiatry** 1990 Jul 1;28(1):83–4

Heritability of substance abuse and antisocial behavior: a study of monozygotic twins reared apart. Grove WM, et al. **Biol Psychiatry** 1990 Jun 15;27(12):1293–304

Alcoholism and the 'new genetics'. Mullan M. **Br J Addict** 1989 Dec;84(12):1433–40; discussion 1441–2 (48 ref.)

Evidence for a general neurotic syndrome. Andrews G, et al. **Br J Psychiatry** 1990 Jul;157:6–12

Acropustulosis of infancy in a twin [letter] Monk B. **Clin Exp Dermatol** 1990 Jan;15(1):77

DNA polymorphisms at fibrinogen loci and plasma fibrinogen concentration. Berg K, et al. **Clin Genet** 1989 Oct;36(4):229–35

Astigmatism in 72 twin pairs. Teikari JM, et al. **Cornea** 1989 Dec;8(4):263–6

Identical achondroplastic twins born to normal parents: a case report and review of the literature. Fox TM, et al. **Del Med J** 1989 Nov;61(11):603–7 (14 ref.)

Cardiovascular risk factors in a French Canadian population: resolution of genetic and familial environmental effects on blood pressure using twins, adoptees, and extensive information on environmental correlates. Rice T, et al. **Genet Epidemiol** 1989;6(5):571–88

Genetic and environmental determinants of dental occlusal variation in twins of different nationalities. Corruccini RS, et al. **Hum Biol** 1990 Jun;62(3):353–67

Pierre Robin syndrome: autosomal dominant inheritance with pleiotropic effect. Sidhu SS, et al. **Indian J Pediatr** 1989 May–Jun;56(3):413–7

The genetics of six neurotic disorders: a twin study. Andrews G, et al. **J Affective Disord** 1990 May;19(1):23–9

The genetics of neurotic–reactive depression: a reanalysis of Shapiro's (1970) twin study using diagnostic criteria. Englund SA, et al. **J Affective Disord** 1990 Apr;18(4):247–52

Identical twins discordant for Kallmann's syndrome. Hipkin LJ, et al. **J Med Genet** 1990 Mar;27(3):198–9

Morphometry of the corpus callosum in monozygotic twins discordant for schizophrenia: a magnetic resonance imaging study. Casanova MF, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):416–21

Psychoticism as a dimension of personality: a multivariate genetic test of Eysenck and Eysenck's psychoticism construct. Heath AC, et al. **J Pers Soc Psychol** 1990 Jan;58(1):111–21

Congenital adrenal hyperplasia in monozygotic twins with variable clinical manifestations. Kanjilal D, et al. **Jinrui Idengaku Zasshi** 1989 Sep;34(3):231–4

Popliteal artery entrapment syndrome of the monozygotic twin—a case report and pathogenetic hypothesis. Jikuya T, et al. **Jpn J Surg** 1989 Sep;19(5):607–11

Penetrance and low concordance in monozygotic twins in disease: are they the results of alterations in somatic genomes? Kastern W, et al. **Mol Reprod Dev** 1988;1(1):63–75 (131 ref.)

Gilles de la Tourette's syndrome in twins: clinical and neurochemical data. Goetz CG, et al. **Mov Disord** 1990;5(2):173–5

Familial Alzheimer's disease: progress and problems. St George–Hyslop PH, et al. **Neurobiol Aging** 1989 Sep–Oct;10(5):417–25 (112 ref.)

Variable expressivity of neurofibromatosis–1 in identical twins. Bauer M, et al. **Neurofibromatosis** 1988;1(5–6):323–9 (19 ref.)

Chronic segmental spinal muscular atrophy of upper extremities in identical twins. Tandan R, et al. **Neurology** 1990 Feb;40(2):236–9

Dementias in Swedish twins. Pedersen NL, et al. **Prog Clin Biol Res** 1989;317:217–22

Hedonic capacity in schizophrenics and their twins. Berenbaum H, et al. **Psychol Med** 1990 May;20(2):367–74

The genetic epidemiology of alcoholism. Merikangas KR. **Psychol Med** 1990 Feb;20(1):11–22 (80 ref.)

[Dental caries in 280 pairs of same–sex twins] Gao XJ. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan;25(1):18–20, 61 (Eng. Abstr.) (Chi)

[Principles of research in twins] Koskenvuo M. **Duodecim** 1989;105(21):1702–6 (17 ref.) (Fin)

[Isolated canine aplasia in monozygotic twins] Ulrich K. **Fortschr Kieferorthop** 1989 Oct;50(5):415–22 (Eng. Abstr.) (Ger)

[Genetic aspects of esotropia in homozygous twins] Lang J. **Klin Monatsbl Augenheilkd** 1990 May;196(5):275–8 (Eng. Abstr.) (Ger)

[Concordant myaplasia of the thoracic wall in monozygotic twins (Poland anomaly)] Walther JU. **Monatsschr Kinderheilkd** 1990 May;138(5):288–90 (Eng. Abstr.) (Ger)

[You make the diagnosis. Congenital Langerhans cell histiocytosis] Schwinger W, et al. **Padiatr Padol** 1990;25(3):175–80 (Ger)

[Thiemann disease in monozygotic female twins] Schiltenwolf M, et al. **Z Orthop** 1989 Nov–Dec;127(6):668–71 (Eng. Abstr.) (Ger)

[A 20–year follow–up study of a sample of 50 pairs of twins with neurotic–psychosomatic disorders] Muhs A, et al. **Z Psychosom Med Psychoanal** 1990;36(1):1–20 (Eng. Abstr.) (Ger)

[Duodenal ulcer in 2 dizygotic twins] Sanna CM, et al. **Pediatr Med Chir** 1990 Jan–Feb;12(1):95–8 (Eng. Abstr.) (Ita)

[Clinical cytogenetic studies on patients with cleft lip and/or cleft palate—2. Chromosome analysis of twins] Hashimoto K, et al. **Kokubyo Gakkai Zasshi** 1990 Mar;57(1):12–5 (Eng. Abstr.) (Jpn)

[Familial myasthenia gravis: a case report in identical twins] Dias–Tosta E, et al. **Arq Neuropsiquiatr** 1989 Jun;47(2):248–53 (21 ref.) (Eng. Abstr.) (Por)

[Genetic aspects of diabetes mellitus] Davidenkova EF, et al. **Klin Med (Mosk)** 1990 Jan;68(1):7–14 (58 ref.) (Rus)

[Diabetes insipidus in twin sisters] Dem'ianenko SM, et al. **Vrach Delo** 1990 Jan;(1):35 (Rus)

PREVENTION & CONTROL

Visiting and immunisation policies on a regional neonatal unit [letter] Blake KD, et al. **Lancet** 1990 Aug 4;336(8710):308–9

PSYCHOLOGY

A twin study of the effects of the Vietnam War on posttraumatic stress disorder. Goldberg J, et al. **JAMA** 1990 Mar 2;263(9):1227–32

THERAPY

Hydramnios in twin pregnancy [letter; comment] Machin GA, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1625–6 Comment on: Am J Obstet Gynecol 1989 Mar;160(3):552–7.

Treatment of twins with hydramnios [letter; comment] Thorp JM Jr, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1625 Comment on: Am J Obstet Gynecol 1989 Mar;160(3):552–7.

[Ultrasonic monitoring of intravascular transfusion in severe Rhesus incompatibility. Diagnostic and therapeutic aspects after fetal relaxation] Keckstein G, et al. **Zentralbl Gynakol** 1989;111(19):1319–24 (Eng. Abstr.) (Ger)

[Fetal therapy in utero by blockage of the umbilical blood flow of acardiac monster in twin pregnancy] Hamada H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov;41(11):1803–9 (Eng. Abstr.) (Jpn)

DISGERMINOMA see **DYSGERMINOMA**

DISINFECTANTS

KCl potentiation of the virucidal effectiveness of free chlorine at pH 9.0. Berg G, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1571–5

Hydrogen peroxide in lens care: unfounded indictments [letter; comment] Nicolson PC. **Arch Ophthalmol** 1990 Jul;108(7):913–4 Comment on: Arch Ophthalmol 1989 Oct;107(10):1516–9.

Pseudomonas folliculitis: an outbreak associated with bromine–based disinfectants—British Columbia. Penn C, et al. **Can Dis Wkly Rep** 1990 Feb 17;16(7):31–3 (Eng, Fre)

Disinfecting effect of a disposable lubricant during cystoscopy. Scholtmeijer RJ, et al. **Child Nephrol Urol** 1990;10(1):22–5

Practical considerations in the use of hydrogen peroxide disinfection systems. Harris MG. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S53–60 (10 ref.)

A report card on hydrogen peroxide for contact lens disinfection. Holden B. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S61–4 (22 ref.)

Bacterial spores and chemical sporicidal agents. Russell AD. **Clin Microbiol Rev** 1990 Apr;3(2):99–119 (242 ref.)

Bactericidal effects of antiseptics and disinfectants against methicillin–resistant Staphylococcus aureus. Kobayashi H, et al. **Infect Control Hosp Epidemiol** 1989 Dec;10(12):562–4

Surface disinfectants [letter; comment] **J Am Dent Assoc** 1990 Jan;120(1):10–4 Comment on: J Am Dent Assoc 1989 Oct;119(4):493–505.

The pH of hydrogen peroxide disinfection systems over time. Harris MG, et al. **J Am Optom Assoc** 1990 Mar;61(3):171–4

Disinfectants prepared in a hospital pharmacy—assessment of their microbiological purity and antimicrobial effectiveness. Nkibiasala SM, et al. **J Clin Pharm Ther** 1989 Dec;14(6):457–64

Prevention of bovine mastitis by a postmilking teat disinfectant containing chlorous acid and chlorine dioxide in a soluble polymer gel. Oliver SP, et al. **J Dairy Sci** 1989 Nov;72(11):3091–7

Rationalizing whole body disinfection. Byrne DJ, et al. **J Hosp Infect** 1990 Feb;15(2):183–7

The effect of immersion disinfection of elastomeric impressions on the surface detail reproduction of improved gypsum casts. Drennon DG, et al. **J Prosthet Dent** 1990 Feb;63(2):233–41

The accuracy and efficacy of disinfection by spray atomization on elastomeric impressions. Drennon DG, et al. **J Prosthet Dent** 1989 Oct;62(4):468–75

Effects of disinfectants on dimensional accuracy of impression materials. Matyas J, et al. **J Prosthet Dent** 1990 Jul;64(1):25–31

Effect of disinfectant solutions on the wettability of elastomeric impression materials. Pratten DH, et al. **J Prosthet Dent** 1990 Feb;63(2):223–7

Linear distortion and compatibility of an antimicrobial irreversible hydrocolloid impression material and improved dental stones. Sevedge SR, et al. **J Prosthet Dent** 1989 Nov;62(5):612–5

Germicidal effectiveness of Dialox, a new stable peroxyacetic acid solution, in the re–use of high–flux dialysers. Canaud B, et al. **Nephrol Dial Transplant** 1989;4(11):1000–2

Destruction of surgical instruments following use of disinfectants to eradicate human immunodeficiency virus [letter] Wesley RE. **Ophthalmic Surg** 1990 Jun;21(6):453–4

Rigid lens base curve stability upon hydrogen peroxide disinfection. Piccolo MG, et al. **Optom Vis Sci** 1990 Jan;67(1):19–21

Effect of disinfecting solutions on accuracy of alginate and elastomeric impressions. Peutzfeldt A, et al. **Scand J Dent Res** 1989 Oct;97(5):470–5

Effect of disinfecting solutions on surface texture of alginate and elastomeric impressions. Peutzfeldt A, et al. **Scand J Dent Res** 1990 Feb;98(1):74–81

Use of phenolic and chlorocresol disinfectants near dairy premises [letter] [see comments] Daykin JM. **Vet Rec** 1990 Feb 3;126(5):121 Comment in: Vet Rec 1990 Mar 10;126(10):249.

Use of phenolic and chlorocresol disinfectants near dairy premises [letter; comment] Sumner J. **Vet Rec** 1990 Mar 10;126(10):249 Comment on: Vet Rec 1990 Feb 3;126(5):121.

[Miejunwang—an antimicrobial and antiseptic skin cleaner for surgical hand washing] Li YC. **Chung Hua Hu Li Tsa Chih** 1990 Feb;25(2):70–2 (Chi)

[A pilot test of the efficacy of a povidone–iodine–based surgical soap] Ducel G. **Schweiz Rundsch Med Prax** 1990 Mar 13;79(11):326–8 (Eng. Abstr.) (Fre)

[AIDS: reduction of infection danger for nursing personnel (news)] **Schweiz Rundsch Med Prax** 1989 Oct 3;78(40):following 1100 (Ger)

[Improving the quality of bathing water by oxygen releasing substances] Jessen HJ. **Z Gesamte Hyg** 1989 Jun;35(6):326–80 (Eng. Abstr.) (Ger)

[Antibacterial mechanism of action of hydrogen peroxide preparations] Tschernjawskaja MA, et al. **Z Gesamte Hyg** 1990 Feb;36(2):86–8 (Eng. Abstr.) (Ger)

[Evaluation of the effectiveness of disinfectants used in several Neapolitan hospitals] D'Errico MM, et al. **Ann Ig** 1989 May–Aug;1(3–4):569–76 (Eng. Abstr.) (Ita)

[Prevention of adenovirus infection and antiviral activity of a hand disinfectant, Welpas] Ueno T, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jan;94(1):44–8 (Eng. Abstr.) (Jpn)

ADMINISTRATION & DOSAGE

[The antimicrobial effectiveness of hand antiseptics] Sokolowa NF, et al. **Z Gesamte Hyg** 1990 Feb;36(2):81–2 (Eng. Abstr.) (Ger)

[Atomizers for disinfection] Liarskii PP, et al. **Med Tekh** 1989 Sep–Oct;(5):47–51 (13 ref.) (Eng. Abstr.) (Rus)

[Use of pervomur solutions in the complex treatment of suppurative postoperative complications and local suppurative infection] Melekhov PA, et al. **Vestn Khir** 1989 Jul;143(7):45–7 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Artificial tears or lens cleaner. To K. **Am J Ophthalmol** 1989 Nov 15;108(5):610

Pseudomonas aeruginosa septicemia related to structural damage to hemodialyzer membranes following disinfection with monoxychlorosene—Quebec. Ishak M, et al. **Can Dis Wkly Rep** 1990 Feb 10;16(6):27–8 (Eng, Fre)

Biocompatibility of hydrogen peroxide in soft contact lens disinfection: antimicrobial activity vs. biocompatibility—the balance. Chandler JW. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S43–5

Clinical aspects of topical application of dilute hydrogen peroxide solutions. McNally JJ. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S46–51; discussion S51–2 (17 ref.)

Effect of H_2O_2 concentration and exposure time on stromal swelling: an epithelial perfusion model. Wilson GS, et al. **Optom Vis Sci** 1990 Apr;67(4):252–5

Successful hand hygiene in hospital. Mäkelä P. **Z Gesamte Hyg** 1990 Feb;36(2):80–1

[Acute keratitis and contamination of contact lens care systems with Bacillus cereus] van Setten GB, et al. **Klin Monatsbl Augenheilkd** 1989 Jul;195(1):28–31 (Eng. Abstr.) (Ger)

[Comment on "References for prevention of formaldehyde–induced occupational dermatoses in the public health and social field" and development of the morbidity of formaldehyde contact eczema in East Germany since inception of the recommendations] Kramer A, et al. **Z Gesamte Hyg** 1989 Jun;35(6):336–43 (79 ref.) (Ger)

[A patient with IGE–mediated allergy to chloramine T

received occupational injury compensation] Blomqvist A, et al. **Lakartidningen** 1989 Nov 29;86(48):4262–4 (Swe)

ANALYSIS

[Evaluation of humidifier units within the scope of room climate modification] Nagorka R, et al. **Off Gesundheitswes** 1990 Apr;52(4):168–73 (Eng. Abstr.) (Ger)

[Phenolic coefficient in the microbiological evaluation of disinfectants for hospital and household use] Timenetsky J, et al. **Rev Saude Publica** 1989 Apr;23(2):170–4 (Eng. Abstr.) (Por)

ANTAGONISTS & INHIBITORS

[Phagocytic reaction of the leukocytes in relation to chloramine-resistant opportunistic microbes] Balakliets NI, et al. **Mikrobiol Zh** 1985 Mar–Apr;47(2):78–81 (Eng. Abstr.) (Rus)

HISTORY

Origin and development of hydrogen peroxide disinfection systems. Janoff LE. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S36–42

IMMUNOLOGY

Contact allergy to Tego 103G disinfectant in a deep-sea diver. Munro CS, et al. **Contact Dermatitis** 1989 Oct; 21(4):278–9

PHARMACOKINETICS

[The depletion of chemical disinfectants during their use (local consumption)] Hunger K. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):177–81 (Eng. Abstr.) (Ger)

PHARMACOLOGY

Survival and disinfection of parainfluenza viruses on environmental surfaces. Brady MT, et al. **Am J Infect Control** 1990 Feb;18(1):18–23

Effect of disinfectants on pseudomonads colonized on the interior surface of PVC pipes. Anderson RL, et al. **Am J Public Health** 1990 Jan;80(1):17–21

Wanted: plastics with antimicrobial properties. Litsky W. **Am J Public Health** 1990 Jan;80(1):13–5

Susceptibility of Coxiella burnetii to chemical disinfectants. Scott GH, et al. **Ann N Y Acad Sci** 1990;590:291–6

Efficacy of a variety of disinfectants against Listeria spp. Best M, et al. **Appl Environ Microbiol** 1990 Feb; 56(2):377–80

Inactivation of human and simian rotaviruses by chlorine dioxide. Chen YS, et al. **Appl Environ Microbiol** 1990 May; 56(5):1363–6

Effect of methodology, dilution, and exposure time on the tuberculocidal activity of glutaraldehyde-based disinfectants. Cole EC, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1813–7

Effects of ozone, chlorine dioxide, chlorine, and monochloramine on Cryptosporidium parvum oocyst viability. Korich DG, et al. **Appl Environ Microbiol** 1990 May;56(5):1423–8

Dynamic light-scattering studies on the effect of heat and disinfectants on spores of Bacillus cereus. Molina-Garcia AD, et al. **Biochem J** 1989 Nov 1;263(3):883–8

Antiplaque activity of some antimicrobial agents using a simple in vitro method. Murata Y, et al. **Caries Res** 1990; 24(2):113–6

Comparative antimicrobial efficacy of soft and rigid gas permeable contact lens solutions against Acanthamoeba. Penley CA, et al. **CLAO J** 1989 Oct–Dec;15(4):257–60

Effect of N,N'-bis(alkyldimethyl)-alpha, omega-alkanediammonium dibromides on bacteria of the genus Clostridium. Cigánková V, et al. **Folia Microbiol (Praha)** 1989;34(3):202–8

Impedimetric determination of activity of disinfectants and detergents on Listeria: preliminary study. Cordier JL, et al. **Int J Food Microbiol** 1989 Jun;8(3):293–7

Experiments on antiviral activity of hand disinfectants. Some theoretical and practical considerations. Eggers HJ. **Int J Med Microbiol** 1990 May;273(1):36–51

Antimicrobial activity of environmental surface disinfectants in the absence and presence of bioburden [see comments] Christensen RP, et al. **J Am Dent Assoc** 1989 Oct; 119(4):493–505 Comment in: J Am Dent Assoc 1990 Jan;120(1):10–4.

Dimensional stability of reversible hydrocolloid impressions immersed in selected disinfectant solutions. Merchant VA, et al. **J Am Dent Assoc** 1989 Oct;119(4):533–5

Effect of cleaning-in-place disinfectants on wild bacterial strains isolated from a milking line. Mattila T, et al. **J Dairy Res** 1990 Feb;57(1):33–9

Effects of a solution of a succinic aldehyde on elastomeric impressions. McCormick RJ, et al. **J Dent** 1989 Oct; 17(5):246–9

Studies of a novel agent possessing resistance to moist heat and disinfectants: parallels with Creutzfeldt-Jakob agent. Dyas AC, et al. **J Hosp Infect** 1990 Apr;15(3):265–72

Absence of role for plasmids in resistance to multiple disinfectants in three strains of bacteria. Nagai I, et al. **J Hosp Infect** 1990 Feb;15(2):149–55

Virucidal activity of disinfectants: studies with the poliovirus. Tyler R, et al. **J Hosp Infect** 1990 May;15(4):339–45

Bactericidal effect of a disinfectant dental stone on irreversible hydrocolloid impressions and stone casts. Schutt RW. **J Prosthet Dent** 1989 Nov;62(5):605–7

An in vitro study of the antibacterial and antifungal properties of an irreversible hydrocolloid impression material impregnated with disinfectant. Tobias RS, et al. **J Prosthet Dent** 1989 Nov;62(5):601–5

The effect of currently available contact lens disinfection systems on Acanthamoeba castellanii and Acanthamoeba polyphaga. Silvany RE, et al. **Ophthalmology** 1990 Mar; 97(3):286–90

Acanthamoeba culbertsoni and contact lens disinfection systems. Connor CG, et al. **Optom Vis Sci** 1989 Oct; 66(10):690–3

Spray dispensing of antiseptics is effective for hand disinfection. Meurman JH, et al. **Scand J Dent Res** 1989 Dec;97(6):528–32

Guidelines of Bundesgesundheitsamt (BGA; German Federal Health Office) and Deutsche Vereinigung zur Bekämpfung der Viruskrankheiten e.V. (DVV; German Association for the Control of Virus Diseases) for testing the effectiveness of chemical disinfectants against viruses. **Zentralbl Hyg Umweltmed** 1990 May;189(6):554–6; discussion 557–62

A quantitative test method for the examination of antimycobacterial disinfection procedures. Hingst V, et al. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):127–40

[Is 70 percent ethanol a useful disinfectant for surfaces contaminated with human immunodeficiency virus? (letter)] de Jong JC, et al. **Ned Tijdschr Geneeskd** 1989 Jul 15;133(28):1420–1 (Dut)

[Control of disinfection in the buildings of pig farms] Maris P. **Ann Rech Vet** 1990;21(1):81–6 (Eng. Abstr.) (Fre)

[Model of bacteriologic effectiveness testing of disinfectants for veterinary medicine] Kleiner U, et al. **Arch Exp Veterinarmed** 1990;44(1):103–16 (Eng. Abstr.) (Ger)

[The antimicrobial effect of selected disinfectants in combination with anionic active detergents] Hadzhilarska D, et al. **Z Gesamte Hyg** 1990 Feb;36(2):88–9 (Eng. Abstr.) (Ger)

[Survival of microorganisms on surfaces in relation to moisture and temperature and the effect of desiccation of microorganisms on resistance to disinfectants] Krzywicka H, et al. **Z Gesamte Hyg** 1990 Feb;36(2):90–1 (Eng. Abstr.) (Ger)

[Significance of plasmid virulence factors for transmission of nosocomial infection] Lebek G. **Z Gesamte Hyg** 1990 Feb;36(2):92–4 (0 ref.) (Eng. Abstr.) (Ger)

[Quantitative recovery of bacteria from different germ carrier materials] Hunger W, et al. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):141–53 (Eng. Abstr.) (Ger)

[The effectiveness of disinfectants from kinetic viewpoints] Hunger W, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):154–76 (Eng. Abstr.) (Ger)

[An experimental consideration of the improved (1974) Kelsy–Sykes test for bactericidal effect of disinfectants] Akiyama S, et al. **Kansenshogaku Zasshi** 1989 Jun; 63(6):575–83 (Eng. Abstr.) (Jpn)

[Isolation of Legionella spp. from cooling tower water and the effect of microbicides] Kasai J, et al. **Rinsho Byori** 1989 Aug;37(8):918–22 (Eng. Abstr.) (Jpn)

[Effect of cation flocculants on Enterobacteriaceae and Enteroviruses] Slipchenko VA, et al. **Gig Sanit** 1989 Aug; (8):82–3 (Rus)

[The sensitivity to antibiotics and chloramine B of opportunistic microorganisms isolated from patients] Balakliets NI, et al. **Mikrobiol Zh** 1989 Nov–Dec;51(6):83–6 (Eng. Abstr.) (Rus)

[The antimicrobial properties and use of sulfochloranthine (a review of the literature)] Ovchinnikov VG, et al. **Vrach Delo** 1990 Feb;(2):108–13 (42 ref.) (Rus)

POISONING

Pine oil cleaners in prison [letter; comment] Erickson T, et al. **Ann Emerg Med** 1990 Apr;19(4):445 Comment on: Ann Emerg Med 1989 Apr;18(4):391–5.

Accidental feeding of a dilute antiseptic solution to five babies [letter] Mucklow ES. **Arch Dis Child** 1989 Jul;64(7):1095–6

Toxicology of household cleaning products and disinfectants. Kore AM, et al. **Vet Clin North Am Small Anim Pract** 1990 Mar;20(2):525–37 (22 ref.)

[Rare medicinal mercury poisoning] Hackel R, et al. **Beitr Gerichtl Med** 1989;47:111–4 (Eng. Abstr.) (Ger)

[Poisoning with disinfectants in vitamin B12 deficiency (letter)] Westarp ME, et al. **Dtsch Med Wochenschr** 1990 May 18;115(20):796–7 (Ger)

STANDARDS

The disinfectant dilemma revisited. Gurevich I, et al. **Infect Control Hosp Epidemiol** 1990 Feb;11(2):96–100

A laboratory assessment of the antimicrobial effectiveness of glove washing and re-use in dental practice. Bagg J, et al. **J Hosp Infect** 1990 Jan;15(1):73–82

Surgical hand disinfection: comparison of 4% chlorhexidine detergent solution and 2% triclosan detergent solution. Bendig JW. **J Hosp Infect** 1990 Feb;15(2):143–8

The pH of over-the-counter hydrogen peroxide in soft lens disinfection systems. Harris MG, et al. **Optom Vis Sci** 1989 Dec;66(12):839–42

[Efficacy of 2 antiseptics intended for the disinfection of normal skin] Chapon JL, et al. **Schweiz Rundsch Med Prax** 1990 Jan 16;79(3):43–6 (Eng. Abstr.) (Fre)

[The quantitative recovery of microbes during testing of disinfectants for instruments] Höller C, et al. **Zentralbl Hyg Umweltmed** 1990 Feb;189(4):300–11 (Eng. Abstr.) (Ger)

THERAPEUTIC USE

APIC guideline for selection and use of disinfectants. Rutala WA. **Am J Infect Control** 1990 Apr;18(2):99–117

Efficacy of a germicidal post milking barrier-type teat dip in preventing intramammary infections. Poutrel B, et al. **Vet Rec** 1990 Jun 30;126(26):638–40

[Control of disinfection in buildings used for poultry raising] Maris P. **Ann Rech Vet** 1989;20(3):309–17 (Eng. Abstr.) (Fre)

[Skin disinfectants for nerve blocks and their long-lasting antimicrobial effects] Sakuragi T, et al. **Masui** 1990 Mar; 39(3):328–34 (Eng. Abstr.) (Jpn)

TOXICITY

Hydrogen peroxide damage to human corneal epithelial cells in vitro. Implications for contact lens disinfection systems [see comments] Tripathi BJ, et al. **Arch Ophthalmol** 1989 Oct;107(10):1516–9 Comment in: Arch Ophthalmol 1990 Jul;108(7):913–4.

Prediction of the developmental toxicity hazard potential of halogenated drinking water disinfection by-products tested by the in vitro hydra assay. Fu LJ, et al. **Regul Toxicol Pharmacol** 1990 Jun;11(3):213–9

Chlorine dioxide and hemodialysis. Smith RP, et al. **Regul Toxicol Pharmacol** 1990 Feb;11(1):42–62 (90 ref.)

DISINFECTION see under **STERILIZATION**

DISINFECTION, HAND see **HANDWASHING**

DISK, HERNIATED see **INTERVERTEBRAL DISK DISPLACEMENT**

DISK, INTERVERTEBRAL see **INTERVERTEBRAL DISK**

DISLOCATION, TOOTH see **TOOTH LUXATION**

DISLOCATIONS

Combined acromioclavicular dislocation with coracoclavicular ligament disruption and coracoid process fracture. Wilson KM, et al. **Am J Sports Med** 1989 Sep–Oct; 17(5):697–8

Irreducible dorsal dislocation of the metatarsophalangeal joint of the hallux. DeCasas R, et al. **Arch Orthop Trauma Surg** 1990;109(3):173–4 (9 ref.)

Bilateral elbow dislocation. Wilson A. **Aust N Z J Surg** 1990 Jul;60(7):553–4

Isolated dislocation of the scaphoid. Ritchie DA, et al. **Injury** 1988 Nov;19(6):405–6

Recurrent dislocation of the elbow. Doria A, et al. **Int Orthop** 1990;14(1):41–5

Subluxation and dislocation of the second metatarsophalangeal joint. Coughlin MJ. **Orthop Clin North Am** 1989 Oct;20(4):535–51

Traumatic dislocation of the knee. Kremchek TE, et al. **Orthop Rev** 1989 Oct;18(10):1051–7 (10 ref.)

Anterior knee dislocation: case report and discussion [published erratum appears in Orthopedics 1990 Jun;13(6):preceding Table of Contents] Pearsall AW, et al. **Orthopedics** 1990 Feb;13(2):231–3

Dislocation of proximal and distal interphalangeal joints in one finger [letter] de Graad M. **S Afr Med J** 1989 Oct 21;76(8):454

[Fracture-dislocation of pelvis in the adult female: clinical analysis of 105 cases] Zhou SR. **Chung Hua Wai Ko Tsa Chih** 1989 Aug;27(8):479–81, 509–10 (Eng. Abstr.) (Chi)

[Joint lesions of the first column of thumb] Moutet F, et al. **Ann Chir** 1989;43(6):491–502 (69 ref.) (Eng. Abstr.) (Fre)

[Anterior trans-scapho-perilunate dislocation of the wrist] Goaied B, et al. **Ann Chir Main** 1989;8(3):242–5 (10 ref.) (Eng. Abstr.) (Fre)

CLASSIFICATION

[Classification of open injuries of the hand] Belousov AE, et al. **Ortop Travmatol Protez** 1989 Jul;(7):67–9 (Rus)

COMPLICATIONS

Arterial injury complicating knee disruption. Third place winner: Conrad Jobst award. Varnell RM, et al. **Am Surg** 1989 Dec;55(12):699–704

Triquetral fracture associated with hamate dislocation: a case report. Wanadurongwan W, et al. **Bull Hosp Jt Dis Orthop Inst** 1990 Spring;50(1):54–8

Bosworth fracture-dislocation of the ankle. A case report and review of the literature. Hoblitzell RM, et al. **Clin Orthop** 1990 Jun;(255):257–62 (12 ref.)

Injury to the popliteal artery associated with dislocation of the knee: palpable distal pulses do not negate the requirement for arteriography. McCutchan JD, et al.

Injury 1989 Sep;20(5):307–10
Peritalar dislocation: a follow-up report of 21 cases. Merianos P, et al. **Injury** 1988 Nov;19(6):439–42
Bilateral fracture-dislocation of the sacrum. Singh AK, et al. **Injury** 1989 Sep;20(5):301–3
Habitual dislocation of the patella. Sharma SV. **Int Orthop** 1990;14(1):21–3
Atlanto-axial subluxation in Down's syndrome. Shikata J, et al. **Int Orthop** 1989;13(3):187–92
Ossification of a perineal haematoma consequent to dislocation of the symphysis pubis. Grassi FA, et al. **Ital J Orthop Traumatol** 1989 Dec;15(4):535–7
Vascular injuries [editorial] Bliss B, et al. **J Bone Joint Surg [Br]** 1989 Nov;71(5):738
Elbow dislocation with avulsion of the medial humeral epicondyle. Fowles JV, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):102–4
Atlanto-axial rotatory fixation and fracture of the clavicle. An association and a classification [published erratum appears in J Bone Joint Surg [Br] 1990 May;72(3):545] Goddard NJ, et al. **J Bone Joint Surg [Br]** 1990 Jan; 72(1):72–5
Occlusion of the vertebral artery in cervical spine dislocations. Louw JA, et al. **J Bone Joint Surg [Br]** 1990 Jul;72(4):679–81
Transcarpal carpometacarpal dislocations, excluding the thumb. Garcia-Elias M, et al. **J Hand Surg [Am]** 1990 Jul; 15(4):531–40
Rupture of extensor tendons associated with a palmar perilunar dislocation. Minami A, et al. **J Hand Surg [Am]** 1989 Sep;14(5):843–7
TMJ disc displacement = the cause of TMJ dysfunction and pain: a sophism? [letter] Mercuri LG. **J Oral Maxillofac Surg** 1990 Sep;48(9):1018–9
Concomitant medial condyle fracture of the humerus in a childhood posterolateral dislocation of the elbow. Saraf SK, et al. **J Orthop Trauma** 1989;3(4):352–4
Aortic injuries in thoracolumbar spine fracture-dislocations: report of three cases. Stambough JL, et al. **J Orthop Trauma** 1989;3(3):245–9
Ipsilateral sternoclavicular dislocation and clavicle fracture. Thomas CB Jr, et al. **J Orthop Trauma** 1989;3(4):355–7
A retrospective clinical and neuroimmunohistochemical study of rheumatoid arthritic patients with atlanto-axial subluxation. Konttinen YT, et al. **Scand J Rheumatol** 1990; 19(1):43–9
Cervical pneumomyelogram secondary to a closed fracture-dislocation of the thoracic spine. A case report. Delamarter RB, et al. **Spine** 1989 Dec;14(12):1421–2 (13 ref.)
Odontoid fracture complicating ankylosing spondylitis. A case report and review of the literature. Kaplan SL, et al. **Spine** 1990 Jun;15(6):607–10 (23 ref.)
[Prevention of neurological involvement as sequela of an atlanto-axial dislocation in persons with Down syndrome (letter)] Begeer JH, et al. **Ned Tijdschr Geneeskd** 1990 May 12;134(19):971–2 **(Dut)**
[Prevention of neurological involvement as a sequela of an atlanto-axial dislocation in persons with Down syndrome (letter)] Scholte FA, et al. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1016 **(Dut)**
[Entrapment of the median nerve after dislocation of the elbow] Tropet Y, et al. **Acta Orthop Belg** 1989;55(2):217–21 (Eng. Abstr.) **(Fre)**
[The treatment of dislocated supracondylar humerus fractures in childhood] Furrer M, et al. **Z Unfallchir Versicherungsmed Berufskr** 1989;82(4):264–5 (Eng. Abstr.) **(Ger)**
[Pathomechanisms of spinal cord injuries caused by injuries of the cervical spine] Gusta A, et al. **Chir Narzadow Ruchu Ortop Pol** 1989;54(2):121–8 (Eng. Abstr.) **(Pol)**
[Surgical treatment of instability of the ankle joint caused by inveterate injuries of the ligaments of the lateral malleolus] Pawlas R, et al. **Chir Narzadow Ruchu Ortop Pol** 1989;54(3):237–42 (Eng. Abstr.) **(Pol)**
[Diagnostic effectiveness of hematologic tests for prognosis of complications in patients with fractures and dislocations of foot bones] Drozdov BO. **Ortop Travmatol Protez** 1990 Apr;(4):31–3 **(Rus)**
[Posterior-external dislocation of both forearm bones with fracture of the internal epicondyle in children] Iarashev TIa. **Vestn Khir** 1989 Jul;143(7):86–7 **(Rus)**
[Dislocation of the knee associated with injury of the popliteal artery] Solaković E. **Med Arh** 1986;40(5):241–3 (Eng. Abstr.) **(Scr)**
[Cervical myelopathy in atlanto-axial dislocation: evaluation of 2 cases by nuclear magnetic resonance] Macaya A, et al. **Arch Neurobiol (Madr)** 1989 Sep–Oct;52(5):239–42 (Eng. Abstr.) **(Spa)**

CONGENITAL

Larsen syndrome: clinical features and treatment—a report of two cases. Lutter LD. **J Pediatr Orthop** 1990 Mar–Apr; 10(2):270–4
Congenital diastasis of the inferior tibiofibular joint. Onimus M, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):172–6
[Congenital luxation of the knee. Description of a clinical case] Vescuso A, et al. **Minerva Pediatr** 1990 Jan–Feb; 42(1–2):41–3 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Arthroscopy in the diagnosis of occult dislocation of the patella. Casteleyn PP, et al. **Acta Orthop Belg** 1989; 55(3):381–3
Ipsilateral hip and knee dislocation. A case report. Kreibich DN, et al. **Acta Orthop Scand** 1990 Feb;61(1):90–1
Acromioclavicular dislocation with adjacent clavicular fracture in a horseback rider. A case report. Lancourt JE. **Am J Sports Med** 1990 May–Jun;18(3):321–2
Cervical spine dislocation presenting as an isolated Horner's syndrome. Safran MJ, et al. **Arch Ophthalmol** 1990 Mar; 108(3):327–8
Diagnostic criteria for intraarticular T.M. disorders. Schiffman E, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):252–7
Diagnosing disk dysfunction and tissue changes in the temporomandibular joint with magnetic resonance imaging. Kirk WS Jr. **J Am Dent Assoc** 1989 Oct;119(4):527–30
Patellofemoral relationships in recurrent patellar dislocation. Kujala UM, et al. **J Bone Joint Surg [Br]** 1989 Nov; 71(5):788–92
A physical sign denoting irreducibility of a dislocated knee. Wand JS. **J Bone Joint Surg [Br]** 1989 Nov;71(5):862
A little smile... [editorial] Mayeda DV. **J Emerg Med** 1990 Mar–Apr;8(2):203
Nonclassic history in children with radial head subluxations. Sacchetti A, et al. **J Emerg Med** 1990 Mar–Apr;8(2):151–3
A case of bilateral nursemaid's elbow. Michaels MG. **Pediatr Emerg Care** 1989 Dec;5(4):226–7
Magnetic resonance imaging of the craniocervical junction in rheumatoid arthritis: value, limitations, indications. Einig M, et al. **Skeletal Radiol** 1990;19(5):341–6
[Recurrent dislocation of the patella] Collette M. **Acta Orthop Belg** 1989;55(3):367–70 (Eng. Abstr.) **(Fre)**
[Evolutive atlanto-axial luxation revealing chronic inflammatory rheumatism in children] Pedespan JM, et al. **Arch Fr Pediatr** 1989 Nov;46(9):661–3 (Eng. Abstr.) **(Fre)**
[Recent peri-lunate dislocations of the wrist] Vichard P, et al. **Z Unfallchir Versicherungsmed Berufskr** 1989; 82(2):106–11 (Eng. Abstr.) **(Fre)**
[Inveterate pediatric dislocation of the radial head with an intact annular ligament. A case report] Winker KH, et al. **Aktuel Traumatol** 1990 Apr;20(2):93–6 (Eng. Abstr.) **(Ger)**
[Dislocation of the peroneal tendon] Orthner E, et al. **Sportverletz Sportschaden** 1989 Sep;3(3):112–5 (Eng. Abstr.) **(Ger)**
[The value of ultrasound in the diagnosis of capsule ligament injuries of the upper ankle joint] Glaser F, et al. **Unfallchirurg** 1989 Nov;92(11):540–6 (Eng. Abstr.) **(Ger)**

ECONOMICS

The medical and economic impact of closed cervical spine dislocations. Cotler HB, et al. **Spine** 1990 Jun;15(6):448–52

EPIDEMIOLOGY

Radial head subluxation: epidemiology and treatment of 87 episodes. Schunk JE. **Ann Emerg Med** 1990 Sep; 19(9):1019–23
The epidemiology of radial head subluxation ('pulled elbow') in the Aberdeen city area. Jongschaap HC, et al. **Health Bull (Edinb)** 1990 Mar;48(2):58–61
The prevalence and treatment needs of subjects with temporomandibular disorders. Schiffman EL, et al. **J Am Dent Assoc** 1990 Mar;120(3):295–303
Atlantoaxial subluxation in systemic lupus erythematosus: further evidence of tendinous alterations. Babini SM, et al. **J Rheumatol** 1990 Feb;17(2):173–7
Incidence and diagnosis of C7–T1 fractures and subluxations in multiple-trauma patients: evaluation of the advanced trauma life support guidelines. Gisbert VL, et al. **Surgery** 1989 Oct;106(4):702–8; discussion 708–9

ETIOLOGY

Obesity. A risk factor for knee dislocation. Marin EL, et al. **Am J Phys Med Rehabil** 1990 Jun;69(3):132–4
Rotatory atlantoaxial subluxation following pharyngoplasty. Eadie PA, et al. **Br J Plast Surg** 1989 Nov;42(6):722–3
Postero-lateral subluxation of the superior tibio-fibular joint. Gillham NR, et al. **Br J Sports Med** 1989 Sep;23(3):195–6
Hazard of yawning [letter; comment] **Can Med Assoc J** 1990 Mar 15;142(6):533 Comment on: Can Med Assoc J 1990 Jan 1;142(1):15.
Hazard of yawning [letter] [see comments] Tesfaye Y, et al. **Can Med Assoc J** 1990 Jan 1;142(1):15 Comment in: Can Med Assoc J 1990 Mar 15;142(6):533.
Habitual dislocation of the patella. Wijesekera CG. **Ceylon Med J** 1990 Jun;35(2):57–61
Pulled elbow and hypermobility of joints. Amir D, et al. **Clin Orthop** 1990 Aug;(257):94–9
Fracture and dislocation of the fourth and fifth cervical vertebral bodies with transection of the spinal cord. Crenshaw AH Jr, et al. **Clin Orthop** 1989 Nov;(248):158–62
Cricoarytenoid subluxation: complication of blind intubation with a lighted stylet. Debo RF, et al. **Ear Nose Throat J** 1989 Jul;68(7):517–20
Inclination of the temporomandibular joint eminence and anterior disc displacement. Kerstens HC, et al. **Int J Oral Maxillofac Surg** 1989 Aug;18(4):228–32
Locked scapula. A case report. Ward WG, et al. **J Bone Joint Surg [Am]** 1989 Dec;71(10):1558–9
Congenital snapping knee. Habitual anterior subluxation of the tibia in extension. Ferris BD, et al. **J Bone Joint Surg [Br]** 1990 May;72(3):453–6
Metatarsophalangeal joint dislocation after local steroid injection. Reis ND, et al. **J Bone Joint Surg [Br]** 1989 Nov; 71(5):864
Subtalar dislocations: a review of the literature. Freund KG. **J Foot Surg** 1989 Sep–Oct;28(5):429–32 (30 ref.)
Recurrent temporomandibular joint subluxation and facial ecchymosis leading to diagnosis of Ehlers-Danlos syndrome: report of surgical management and review of the literature. Sacks H, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):641–7 (39 ref.)
Recurrent dislocation of the mandible in a patient with myotonic dystrophy. Wilson A, et al. **J Oral Maxillofac Surg** 1989 Dec;47(12):1329–32
Rheumatoid subluxation of the cervical spine. Bland JH. **J Rheumatol** 1990 Feb;17(2):134–7 (22 ref.)
Atlanto-axial dislocation in association with rheumatic fever. A case report. De Coster TA, et al. **Spine** 1990 Jun; 15(6):591–5 (17 ref.)
Traumatic atlanto-occipital instability. A case report with follow-up and a new diagnostic technique. DiBenedetto T, et al. **Spine** 1990 Jun;15(6):595–7
Posttraumatic atlanto-axial subluxation and myelopathy. Efficacy of anterior decompression. Moskovich R, et al. **Spine** 1990 Jun;15(6):442–7
Multidirectional instabilities of traumatic cervical spine injuries in a porcine model. Panjabi MM, et al. **Spine** 1989 Oct;14(10):1111–5
Natural history of atlanto-axial subluxation in rheumatoid arthritis. Rana NA. **Spine** 1989 Oct;14(10):1054–6
[Recurrent dislocation of the elbow] Nickels E, et al. **Acta Orthop Belg** 1989;55(2):225–9 (Eng. Abstr.) **(Fre)**
[Shoulder sub luxation as the presenting form of chronic rheumatism in children (letter)] Hayem F. **Arch Fr Pediatr** 1990 Apr;47(4):314 **(Fre)**
[Post-traumatic habitual luxation of the extensor carpi ulnaris tendon] Goaid B, et al. **Rev Chir Orthop** 1989;75(5):345–6 (6 ref.) (Eng. Abstr.) **(Fre)**
[Traumatic C1–C2 luxation in children. Prognostic study and therapeutic indications apropos of 13 cases] Hardy J, et al. **Rev Chir Orthop** 1990;76(1):17–22 (Eng. Abstr.) **(Fre)**
[Injuries to the cervical spine in children and adolescents] Ludolph E, et al. **Aktuel Traumatol** 1990 Apr;20(2):57–61 (Eng. Abstr.) **(Ger)**
[The pattern of injuries of the ankle joint in ski boots—a retrospective analysis] Sperner G, et al. **Sportverletz Sportschaden** 1989 Dec;3(4):162–6 (Eng. Abstr.) **(Ger)**
[Injuries and physical complaints caused by golf] Wolf T. **Sportverletz Sportschaden** 1989 Sep;3(3):124–7 (Eng. Abstr.) **(Ger)**
[The horizontal patellar dislocation] Langendorff HU, et al. **Unfallchirurgie** 1990 Apr;16(2):80–3 (13 ref.) (Eng. Abstr.) **(Ger)**
[Spontaneous bilateral semilunar bone dislocation due to congenital carpal instability] Keitel R, et al. **Zentralbl Chir** 1990;115(11):685–9 **(Ger)**
[Hemophiliac arthropathy of the elbow with bilateral luxation of the head of the radius. Hemophiliac arthropathy of the knee at the stage of arthrosis] Gorun N, et al. **Rev Chir [Chir]** 1989 Jul–Aug;38(4):299–304 (Eng. Abstr.) **(Rum)**
[Problem of the etiology of congenital dislocation of the patella] Karchinov DK. **Ortop Travmatol Protez** 1990 May; (5):49–50 **(Rus)**

IMMUNOLOGY

Identification of prostaglandin E2 and leukotriene B4 in the synovial fluid of painful, dysfunctional temporomandibular joints. Quinn JH, et al. **J Oral Maxillofac Surg** 1990 Sep; 48(9):968–71

PATHOLOGY

Recurrent medial swivel dislocation of the foot. Verhaar JA. **J Bone Joint Surg [Br]** 1990 Jan;72(1):154–5
Morphologic differences between superior and inferior disc surfaces in chronic internal derangement of the temporomandibular joint. Kirk WS Jr. **J Oral Maxillofac Surg** 1990 May;48(5):455–60

PHYSIOPATHOLOGY

Mechanisms of disc displacement in the temporomandibular joint. Gage JP. **Aust Dent J** 1989 Oct;34(5):427–36 (54 ref.)
Ankle fractures with diastasis. Stiehl JB. **Instr Course Lect** 1990;39:95–103 (24 ref.)
Coincident rupture of the scapholunate and lunotriquetral ligaments without perilunate dislocation: pathomechanics and management. Pin PG, et al. **J Hand Surg [Am]** 1990 Jan;15(1):110–9
A surgical model of a chronic subluxation in rabbits [letter; comment] Jarmel ME. **J Manipulative Physiol Ther** 1989 Dec;12(6):498–9 Comment on: J Manipulative Physiol Ther 1989 Jun;12(3):239.
Where have all the clickers gone? [letter] Himmelfarb R. **J Oral Maxillofac Surg** 1990 May;48(5):547
Posterior acetabular fracture-dislocations: fragment size,

joint capsule, and stability. Vailas JC, et al. **J Trauma** 1989 Nov;29(11):1494–6

[Experimental study for clarification of the pathogenic mechanism in traumatic peroneal tendon dislocation] Orthner E, et al. **Unfallchirurg** 1989 Nov;92(11):547–53 (Eng. Abstr.) **(Ger)**

[Torsion movement of the foot in landing after a jump] Stacoff A, et al. **Z Orthop** 1990 Mar–Apr;128(2):213–7 (Eng. Abstr.) **(Ger)**

[Pre-, intra- and postoperative somatosensory evoked potentials in cervical vertebral and spinal cord injuries] D'Alpa F, et al. **Minerva Anestesiol** 1989 Mar;55(3):115–8 (Eng. Abstr.) **(Ita)**

[Adaptation reactions of the body in fractures and fracture-dislocations of the bones of the foot] Drozdov BO. **Ortop Travmatol Protez** 1989 Jun;(6):36–9 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

[Percutaneous drill wire fixation in treating distal radius fractures at risk of dislocation] Kwasny O, et al. **Aktuel Traumatol** 1990 Apr;20(2):97–101 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Fracture of the coracoid process of the scapula with acromioclavicular separation. Case report and review of the literature. Barentsz JH, et al. **Acta Orthop Belg** 1989; 55(3):499–503

Incomplete lateral dislocation of the elbow in children. A report of a case and review of the classification. Sanpera I Jr. **Acta Orthop Belg** 1989;55(3):509–12 (8 ref.)

Occipital osteodiastasis. A rare complication in cephalic delivery. Roche MC, et al. **Acta Paediatr Scand** 1990 Mar; 79(3):380–2

Luxation of the elbow complicated by proximal radio-ulnar translocation. Ekölf O, et al. **Acta Radiol** 1990 Mar; 31(2):145–6

Coronal radiographs and videofluoroscopy improve the diagnostic quality of temporomandibular joint arthrography. Duvoisin B, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):105–7

Cervicothoracic junction injury. Vanden Hoek T, et al. **Am J Emerg Med** 1990 Jan;8(1):30–3

Subtalar dislocation associated with calcaneonavicular coalition: a case report. Miller AR, et al. **Bull Hosp Jt Dis Orthop Inst** 1990 Spring;50(1):84–7

Simultaneous dorsal dislocation of interphalangeal joints in a finger. Bayne O, et al. **Clin Orthop** 1990 Aug;(257):104–6

Isolated injury of the second tarsometatarsal joint. A case report. Markowitz HD, et al. **Clin Orthop** 1989 Nov; (248):210–2

Fracture-dislocation of the first thoracic on the second thoracic vertebrae in a schoolboy. Goodwin MI, et al. **Injury** 1988 Nov;19(6):450–2

Locking of posterior process of talus in the sulcus calcanei in a case of peritalar dislocation. Khare GN, et al. **Injury** 1989 Jan;20(1):49–50

Posterior dislocation of the elbow with an osteochondral fracture. Shankar NS, et al. **Injury** 1989 Jan;20(1):51–2

An unusual weightlifting injury. Wooton JR, et al. **Injury** 1988 Nov;19(6):446–7

Peri-pyramidal semilunar dislocation of the carpus. Ruano MA, et al. **Ital J Orthop Traumatol** 1988 Dec;14(4):513–8

Combined atlanto-axial and occipito-atlantal rotatory subluxation. A case report. Altongy JF, et al. **J Bone Joint Surg [Am]** 1990 Jul;72(6):923–6

Traumatic spondylolisthesis of the axis with unusual distraction. A case report [published erratum appears in J Bone Joint Surg [Am] 1990 Mar;72(3):473] Barros Filho TE, et al. **J Bone Joint Surg [Am]** 1990 Jan;72(1):124–5

Subluxation of the patella. Computed tomography analysis of patellofemoral congruence [letter; comment] Malghem J, et al. **J Bone Joint Surg [Am]** 1989 Dec;71(10):1575–6 Comment on: J Bone Joint Surg [Am] 1988 Oct;70(9):1331–7.

Thoracic spine translocation without cord injury. Simpson AH, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):80–3

Computed tomography with stress maneuver to demonstrate sternoclavicular joint dislocation. Burnstein MI, et al. **J Comput Assist Tomogr** 1990 Jan–Feb;14(1):159–60

Forearm and wrist radiology—Part I. Propp DA, et al. **J Emerg Med** 1989 Jul–Aug;7(4):393–9

Radiographic changes with radial head subluxation in children. Snyder HS. **J Emerg Med** 1990 May–Jun; 8(3):265–9

Diagnostic imaging of trauma to the ankle and foot. Part III: Fractures and dislocations of the talus. Mitchell MJ, et al. **J Foot Surg** 1989 Jul–Aug;28(4):378–83

Diagnostic imaging of trauma to the ankle and foot: Part II. Mitchell MJ, et al. **J Foot Surg** 1989 May–Jun; 28(3):266–71

Radiologic evaluation of midfoot injuries: test of interpretation and clinical knowledge. Sartoris DJ, et al. **J Foot Surg** 1990 May–Jun;29(3):292–7

Degenerative changes in the cervical spine in Down's syndrome. Tangerud A, et al. **J Ment Defic Res** 1990 Apr; 34 (Pt 2):179–85

Superior dislocation of the intact mandibular condyle into the middle cranial fossa. Baldwin AJ. **J Oral Maxillofac Surg** 1990 Jun;48(6):623–8

Lumbosacral lesions associated with pelvic ring injuries. Isler B. **J Orthop Trauma** 1990;4(1):1–6

Intermediate cuneiform fracture-dislocation. Sanders JO, et al. **J Orthop Trauma** 1990;4(1):102–4

Pathomechanism of atlantoaxial rotatory fixation in children. Kawabe N, et al. **J Pediatr Orthop** 1989 Sep–Oct; 9(5):569–74

A new method of screening for vertical atlantoaxial dislocation. Kauppi M, et al. **J Rheumatol** 1990 Feb; 17(2):167–72

Reliability of indications for cervical spine films in trauma patients. Kreipke DL, et al. **J Trauma** 1989 Oct; 29(10):1438–9

Distal radio-ulnar joint dislocation, ulna volar in a female body builder. Francobandiera C, et al. **Med Sci Sports Exerc** 1990 Apr;22(2):155–8

Isolated dislocation of the radial head. Sturm PF, et al. **Mt Sinai J Med** 1989 Sep;56(4):304–8 (20 ref.)

Carpometacarpal dislocation: report of three cases. De Waard JW, et al. **Neth J Surg** 1990 Feb;42(1):20–3

How invasive is TMJ double-contrast arthrography in combination with cinematography? Patient discomfort versus known diagnostic gain. Engelke W, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):520–3

Sideways and rotational displacement of the temporomandibular joint disk: diagnosis by arthrography and correlation to cryosectional morphology. Liedberg J, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jun; 69(6):757–63

Reliability of a negative clinical temporomandibular joint examination: prevalence of disk displacement in asymptomatic temporomandibular joints. Westesson PL, et al. **Oral Surg Oral Med Oral Pathol** 1989 Nov;68(5):551–4

The sternoclavicular joint in trauma: retrosternal dislocation versus epiphyseal fracture. Leighton D, et al. **Pediatr Radiol** 1989;20(1–2):126–7

Radiologic reporting of skeletal trauma. Pitt MJ, et al. **Radiol Clin North Am** 1990 Mar;28(2):247–56 (23 ref.)

Locked unifacet dislocation L3 on L4 vertebra. A case report. Posel DM, et al. **S Afr Med J** 1990 Mar 3; 77(5):262–4

Backward tilting of the posterior atlantal arch in rheumatoid arthritis. Redlund-Johnell I, et al. **Scand J Rheumatol** 1989; 18(5):261–3

Radiographic measurements of occipito-atlanto-axial dislocation in rheumatoid arthritis. Teigland J, et al. **Scand J Rheumatol** 1990;19(2):105–14

Radiologic study of the influence of zygapophyseal joint orientation on spinal injuries at the thoracolumbar junction. Singer KP, et al. **Surg Radiol Anat** 1989;11(3):233–9

[Dislocation of the foot and talus—a rare injury of the ankle joint] Slavík M, et al. **Acta Chir Orthop Traumatol Cech** 1989 Dec;56(6):543–8 (Eng. Abstr.) **(Cze)**

[Tarsometatarsal fracture dislocations] Chrintz H, et al. **Ugeskr Laeger** 1989 Oct 16;151(42):2728–30 (Eng. Abstr.) **(Dan)**

[Temporomandibular arthrography. Contribution of the frontal view in the diagnosis of meniscus displacement. Preliminary study] Duvoisin B, et al. **J Radiol** 1989 Jun–Jul; 70(6–7):415–8 (Eng. Abstr.) **(Fre)**

[Luxations in the sternoclavicular joint] Kahle M, et al. **Aktuel Traumatol** 1990 Apr;20(2):83–6 (Eng. Abstr.) **(Ger)**

[Dislocation of the thumb saddle joint as a rare sports injury] Sim E. **Sportverletz Sportschaden** 1990 Jun;4(2):92–5 (Eng. Abstr.) **(Ger)**

[Pathology, diagnosis and therapy of patellar dislocation] Sperner G, et al. **Sportverletz Sportschaden** 1990 Jun; 4(2):69–72 (Eng. Abstr.) **(Ger)**

[Possibilities for radiologic imaging of the retro-malleolar groove] Orthner E, et al. **Unfallchirurgie** 1989 Dec; 15(6):309–13 (Eng. Abstr.) **(Ger)**

[Isolated dislocation of the fifth metacarpal bone] Bálványossy P, et al. **Magy Traumatol Orthop Helyreallito Sebesz** 1990; 33(1):57–9 (Eng. Abstr.) **(Hun)**

[CT arthrography in the diagnosis of luxation of the biceps muscle tendon of the arm] Bonatti G, et al. **Radiol Med (Torino)** 1990 Apr;79(4):391–2 **(Ita)**

[Roentgenological diagnosis of injuries of the distal radioulnar articulation] Shekhtman AG. **Ortop Travmatol Protez** 1990 Apr;(4):41–2 **(Rus)**

REHABILITATION

[Factors influencing return to vocational activity following healed lesion of the lower extremities] Kiwerski J, et al. **Rehabilitation (Stuttg)** 1989 Aug;28(3):138–42 (Eng. Abstr.) **(Ger)**

[Rehabilitative treatment in old and inveterate fracture-dislocations of the bones of the feet] Miakotina LI, et al. **Ortop Travmatol Protez** 1989 Sep;(9):31–4 (Eng. Abstr.) **(Rus)**

SURGERY

Ventral spondylodesis: basic method in the treatment of cervical spine injuries. Pentelényi T, et al. **Acta Chir Hung** 1989;30(4):299–310

The Hauser operation for patellar dislocation. 3–32-year results in 63 knees. Barbari S, et al. **Acta Orthop Scand** 1990 Feb;61(1):32–5

Recurrent third degree acromioclavicular joint separation after failure of a Dacron ligament prosthesis. A case report. Fullerton LR Jr. **Am J Sports Med** 1990 Jan–Feb; 18(1):106–7

Irreducible dislocation of the great toe following a sports injury. A case report. Wolfe J, et al. **Am J Sports Med** 1989 Sep–Oct;17(5):695–6

Acute traumatic lateral patellar dislocation. Carragher AM, et al. **Ann Emerg Med** 1989 Dec;18(12):1362–3

Simultaneous dislocation of both interphalangeal joints in a finger. Hage JJ, et al. **Arch Orthop Trauma Surg** 1990; 109(3):179–80

An analysis of complications in lateral retinacular release procedures. Small NC. **Arthroscopy** 1989;5(4):282–6

Dislocation of the manubriosternal joint: the role of the second chondrosternal joint, and stabilisation by surgical fusion. Bordon LM. **Cent Afr J Med** 1989 Aug;35(8):464–7

Traumatic dislocations of the patella: problems related to treatment. Savarese A, et al. **Chir Organi Mov** 1990 Jan–Mar;75(1):51–7 **(Eng, Ita)**

Complete fracture-dislocation of the lower lumbar spine with spontaneous neurologic decompression. Abdel-Fattah H, et al. **Clin Orthop** 1990 Feb;(251):140–3

Insall proximal realignment for disorders of the patella. Abraham E, et al. **Clin Orthop** 1989 Nov;(248):61–5

The influence of distal clavicle resection and rotator cuff repair on the effectiveness of anterior acromioplasty. Daluga DJ, et al. **Clin Orthop** 1989 Oct;(247):117–23

Rupture of the intersesamoid ligament of a soccer player's foot. Capasso G, et al. **Foot Ankle** 1990 Jun;10(6):337–9

Salvage of Lisfranc's tarsometatarsal joint by arthrodesis. Sangeorzan BJ, et al. **Foot Ankle** 1990 Feb;10(4):193–200

Irreducible dorsal dislocation of the interphalangeal joint of the great toe: report of two cases. Yasuda T, et al. **Foot Ankle** 1990 Jun;10(6):331–6

Isolated dislocation of the tarsal navicular. Freund KG. **Injury** 1989 Mar;20(2):117–8

Irreducible dislocation of the subtalar joint: a report of two cases. Taylor LJ, et al. **Injury** 1988 Nov;19(6):447–9

Patellofemoral malalignment: a report of 68 cases treated by proximal and distal patellofemoral reconstruction. Wootton JR, et al. **Injury** 1990 May;21(3):169–73

Subsequent treatment of chronic recurrent dislocation of the mandible after eminectomies. Loh FC, et al. **Int J Oral Maxillofac Surg** 1989 Dec;18(6):352–3

External fixation of fractures and fracture dislocations of the pelvis. Castaman E. **Ital J Orthop Traumatol** 1989 Sep; 15(3):315–29

Alignment of the extensor apparatus of the knee by alar and tuberosity transposition in recurrent subluxation of the patella and in external patellar hypertension syndrome. De Amicis A, et al. **Ital J Orthop Traumatol** 1989 Sep; 15(3):273–9

Osteosynthesis of fractures of the upper end of the radius. Fama G, et al. **Ital J Orthop Traumatol** 1988 Dec; 14(4):465–74

Isolated palmar dislocation of the trapezoid associated with attritional rupture of the flexor tendon. A case report. Inoue G, et al. **J Bone Joint Surg [Am]** 1990 Mar;72(3):446–8

Management of dislocations of both ends of the clavicle. Sanders JO, et al. **J Bone Joint Surg [Am]** 1990 Mar; 72(3):399–402

Scaphotrapezial dislocation. A case report. Stevanovic MV, et al. **J Bone Joint Surg [Am]** 1990 Mar;72(3):449–52

External fixation for fracture-dislocations of the proximal humerus. Brooks CH, et al. **J Bone Joint Surg [Br]** 1989 Nov;71(5):864–5

One-stage transoral decompression and posterior fixation in rheumatoid atlanto-axial subluxation. Crockard HA, et al. **J Bone Joint Surg [Br]** 1990 Jul;72(4):682–5

Acute dislocation of the patella. A prospective review of operative treatment. Vainionpää S, et al. **J Bone Joint Surg [Br]** 1990 May;72(3):365–9

Increasing the articular eminence by the use of blocks of porous coralline hydroxylapatite for treatment of recurrent TMJ dislocation. Karabouta I. **J Craniomaxillofac Surg** 1990 Apr;18(3):107–13

Crossover second toe deformity: etiology and treatment. Johnson JB, et al. **J Foot Surg** 1989 Sep–Oct;28(5):417–20

Irreducible palmar dislocation of the proximal interphalangeal joint with bilateral avulsion fractures. Crick JC, et al. **J Hand Surg [Am]** 1990 May;15(3):460–3

Irreducible palmar dislocation of the proximal interphalangeal joint of the finger. Inoue G, et al. **J Hand Surg [Am]** 1990 Mar;15(2):301–4

Dorsal dislocation of the fifth carpometacarpal joint. Laforgia R, et al. **J Hand Surg [Am]** 1990 May;15(3):463–5

Dorsal dislocation of the lunate with multiple extensor tendon ruptures. Schwartz MG, et al. **J Hand Surg [Am]** 1990 Jan; 15(1):132–3

Traumatic dislocation of the extensor tendons over the fifth metacarpo-phalangeal joint. Van Meirhaeghe J, et al. **J Hand Surg [Br]** 1989 Aug;14(3):350–1

Surgical correction and osteoplasty for forward dislocation of temporomandibular joint. Kudo K, et al. **J Nihon Univ Sch Dent** 1989 Dec;31(4):577–84

The effect of temporomandibular joint arthroscopy on ear function. Jones JL, et al. **J Oral Maxillofac Surg** 1989 Oct; 47(10):1022–5

Costochondral grafting for posttraumatic temporomandibular joint reconstruction: a review of six cases. Nelson CL, et al. **J Oral Maxillofac Surg** 1989 Oct;47(10):1030–6;

discussion 1037–8
Arthroscopic lavage and lysis of the temporomandibular joint: a change in perspective. Nitzan DW, et al. **J Oral Maxillofac Surg** 1990 Aug;48(8):798–801; discussion 802
The widening role of TMJ arthroscopy [letter] Tarro AW. **J Oral Maxillofac Surg** 1989 Nov;47(11):1240
Retrospective analysis of 100 consecutive surgical arthroscopies of the temporomandibular joint. White RD. **J Oral Maxillofac Surg** 1989 Oct;47(10):1014–21
Late posttraumatic carpometacarpal dislocation of the ring and little finger. Fernyhough J, et al. **J Orthop Trauma** 1990;4(2):200–3
Isolated fracture of the coronoid process of the ulna: a case report and review of the literature. Hanks GA, et al. **J Orthop Trauma** 1990;4(2):193–6 (14 ref.)
Surgical management of congenital and habitual dislocation of the patella. Gao GX, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):255–60
Halo application in the infant. Mubarak SJ, et al. **J Pediatr Orthop** 1989 Sep–Oct;9(5):612–4
Sternoclavicular dislocation [letter] Santos GH, et al. **J Thorac Cardiovasc Surg** 1990 Jun;99(6):1114–5
Operative treatment of fractures and dislocations of the hand and wrist region in children. Campbell RM Jr. **Orthop Clin North Am** 1990 Apr;21(2):217–43 (126 ref.)
Complex ankle fracture dislocations with syndesmotic diastasis. Stiehl JB. **Orthop Rev** 1990 Jun;19(6):499–507 (24 ref.)
Reconstruction of the distal radioulnar joint for chronic volar dislocation. A case report. Sanders RA, et al. **Orthopedics** 1989 Nov;12(11):1473–6
Surgery on temporomandibular joint (T.M.J.) in cases with internal derangements. Karabouta-Voulgaropoulou I, et al. **Rev Stomatol Chir Maxillofac** 1990;91(2):153–5
[Experience in posterior wiring and fusion in atlanto–axial luxation] Liu Y. **Chung Hua Wai Ko Tsa Chih** 1989 Dec; 27(12):723–5, 779–80 (Eng. Abstr.) (Chi)
[Treatment of complications of complete dislocation of the knee joint] Zhang JS. **Chung Hua Wai Ko Tsa Chih** 1989 Jul;27(7):430–1, 446–7 (Eng. Abstr.) (Chi)
[Sternoclavicular dislocation. Case report] Kopecký I, et al. **Acta Chir Orthop Traumatol Cech** 1990 Apr;57(2):144–50 (Eng. Abstr.) (Cze)
[Transposition of the tibial tuberosity in recurrent dislocations and painful femoro-patellar syndromes. Study of a continuous series of 140 operated knees] Gillet P, et al. **Acta Orthop Belg** 1989;55(3):429–38 (Eng. Abstr.) (Fre)
[Long-term results of the Krogius–Roux operation] Witvrouw R, et al. **Acta Orthop Belg** 1989;55(3):447–50 (Eng. Abstr.) (Fre)
[Open reduction of the elbow. Apropos of 29 neglected dislocations] Di Schino M, et al. **Med Trop (Mars)** 1989 Oct–Dec;49(4):421–6 (Eng. Abstr.) (Fre)
[Resection of the distal part of the humerus in neglected elbow dislocations. Apropos of 23 case reports] Di Schino M, et al. **Med Trop (Mars)** 1989 Oct–Dec;49(4):415–20 (Eng. Abstr.) (Fre)
[Posterior sternoclavicular luxation. Apropos of 6 cases] Tricoire JL, et al. **Rev Chir Orthop** 1990;76(1):39–44 (Eng. Abstr.) (Fre)
[Surgical treatment of complex lesions of the wrist] Mora R, et al. **Z Unfallchir Versicherungsmed Berufskr** 1989; 82(2):112–5 (Eng. Abstr.) (Fre)
[Long-term study of an unusual post-traumatic arthrosis of the ankle joint] Haag W. **Aktuel Traumatol** 1989 Aug; 19(4):152–5 (Eng. Abstr.) (Ger)
[Secondary wire migration following percutaneous bore wire fixation of acromioclavicular dislocation] Habernek H, et al. **Aktuel Traumatol** 1989 Oct;19(5):218–20 (Ger)
[Instability of the wrist joint—diagnosis and therapy] Martini AK, et al. **Aktuel Traumatol** 1989 Dec;19(6):287–93 (Eng. Abstr.) (Ger)
[Results of surgically managed acromioclavicular joint rupture in adults] Mahlfeld A, et al. **Beitr Orthop Traumatol** 1990 Feb;37(2):96–100 (Eng. Abstr.) (Ger)
[Results of the surgical treatment of habitual and recurrent patella dislocation using Ali Krogius' method] Rebmann K, et al. **Beitr Orthop Traumatol** 1989 Dec;36(12):571–5 (Eng. Abstr.) (Ger)
[Traumatic chondrosis dissecans of the ulnar head (case report)] Pfeiffer KM. **Handchir Mikrochir Plast Chir** 1989 Sep;21(5):268–9 (Eng. Abstr.) (Ger)
[Rupture of the palmar plate—conservative or surgical therapy] Schaller P, et al. **Handchir Mikrochir Plast Chir** 1989 Nov;21(6):322–7 (Eng. Abstr.) (Ger)
[Clinical significance and treatment concept of Lisfranc dislocation and dislocation fracture] Babst R, et al. **Helv Chir Acta** 1989 Dec;56(4):603–7 (Eng. Abstr.) (Ger)
[Spinal fusions in rheumatic dislocation of the cranio-cervical transition] Weidner A. **Neurochirurgia (Stuttg)** 1990 Mar; 33(2):50–3 (Eng. Abstr.) (Ger)
[Injuries of the acromio- and sternoclavicular joint—surgical or conservative treatment?] Haas N, et al. **Orthopade** 1989 Aug;18(4):234–45; discussion 246 (27 ref.) (Eng. Abstr.) (Ger)
[Ligament injuries and dislocations of the elbow joint] Muhr G, et al. **Orthopade** 1989 Aug;18(4):268–72 (Eng. Abstr.) (Ger)
[Dislocation and subluxation of the patella] Muhr G, et al. **Orthopade** 1989 Aug;18(4):294–301 (58 ref.) (Eng. Abstr.) (Ger)
[Subtotal lateral foot dislocation with osseous fracture of the posterior syndesmosis] Fuchs M, et al. **Unfallchirurg** 1989 Oct;92(10):505–8 (Eng. Abstr.) (Ger)
[The surgical treatment of injuries of the cervical spine] Illgner A, et al. **Unfallchirurg** 1989 Aug;92(8):363–72 (Eng. Abstr.) (Ger)
[Fractured Monteggia pseudarthrosis. An unusual case] Kulenkampff HA, et al. **Unfallchirurg** 1990 Jan;93(1):32–4 (Eng. Abstr.) (Ger)
[Dislocation of peroneal tendons] Orthner E, et al. **Unfallchirurg** 1989 Dec;92(12):589–94 (Eng. Abstr.) (Ger)
[Dislocation of the scaphoid bone of the hand] Habernek H, et al. **Unfallchirurgie** 1989 Dec;15(6):285–8 (Eng. Abstr.) (Ger)
[Patellar dislocation as a cause of osteochondral fracture of the femoro–patellar joint] Krödel A, et al. **Unfallchirurgie** 1990 Feb;16(1):12–7 (Eng. Abstr.) (Ger)
[The surgical treatment of acromioclavicular joint separation with a resorbable PDS cord] Rustemeier M, et al. **Unfallchirurgie** 1990 Apr;16(2):70–4 (Eng. Abstr.) (Ger)
[Surgically stabilizing "complex therapy" of unstable injury of the lower cervical spine] Sándor L. **Unfallchirurgie** 1990 Feb;16(1):18–24 (Eng. Abstr.) (Ger)
[Perilunar dislocations and dislocation fractures in polytrauma patients—diagnosis and therapy] Skruodies B, et al. **Unfallchirurgie** 1989 Oct;15(5):236–42 (Eng. Abstr.) (Ger)
[Surgical treatment of diabetic osteoarthropathy with severe dislocation] Toth K, et al. **Z Orthop** 1989 Nov–Dec; 127(6):701–5 (Eng. Abstr.) (Ger)
[A modified Viernstein and Kelly surgical technic for correcting chronic recurrent peroneal tendon dislocation] Wirth CJ. **Z Orthop** 1990 Mar–Apr;128(2):170–3 (Eng. Abstr.) (Ger)
[Bilateral dislocated intra-articular calcaneus fracture in the child] Havránek P, et al. **Zentralbl Chir** 1990;115(10):625–9 (Ger)
[Thoracic duct injury caused by a migrating Kirschner wire] Schultheis KH, et al. **Zentralbl Chir** 1989;114(19):1287–9 (Ger)
[Open reduction and single screw fixation of acromioclavicular dislocation] Horer DI, et al. **Harefuah** 1989 Jul;117(1–2):5–9 (Eng. Abstr.) (Heb)
[Open fracture-dislocation of the ankle] Képes P. **Magy Traumatol Orthop Helyreallito Sebesz** 1990; 33(2):133–5 (Hun)
[Management of dislocated subcapital fractures of the humerus by intramedullary wiring] Laky R. **Magy Traumatol Orthop Helyreallito Sebesz** 1990; 33(1):9–17 (Eng. Abstr.) (Hun)
[Reduction and early surgical stabilization of fractures and fracture-luxations in cervical vertebral and spinal cord injuries] Caroli GC, et al. **Minerva Anestesiol** 1989 Mar; 55(3):99–102 (Eng. Abstr.) (Ita)
[Surgical treatment of fracture-luxations between C3 and C7 vertebrae] Cassinari V, et al. **Minerva Anestesiol** 1989 Mar; 55(3):103–5 (Eng. Abstr.) (Ita)
[An unusual case of atlanto–axial traumatic dislocation in a child] Graziano DV, et al. **Minerva Anestesiol** 1989 Mar; 55(3):111–3 (Eng. Abstr.) (Ita)
[The treatment of chronic anterior knee dislocations by a new procedure of extra-articular syndesmoplasty] Floarea G. **Rev Med Chir Soc Med Nat Iasi** 1989 Jan–Mar; 93(1):109–11 (Eng. Abstr.) (Rum)
[Use of a rod apparatus for external fixation in the treatment of hand injuries] Andruson MV, et al. **Ortop Travmatol Protez** 1989 Jul;(7):37–9 (Eng. Abstr.) (Rus)
[Surgical treatment of stage II and III dislocation of the acromial end of the clavicle] Gongal'skii VI, et al. **Ortop Travmatol Protez** 1989 Nov;(11):66–7 (Rus)
[Surgical treatment of fractures of the distal end of the humerus in children] Iaroslavtsev SI. **Ortop Travmatol Protez** 1989 Nov;(11):43–7 (Eng. Abstr.) (Rus)
[A method of setting inveterate dislocation of the semilunar bone] Karpov AIa. **Ortop Travmatol Protez** 1989 Nov; (11):71–2 (Rus)
[Long-term regional infusion of drugs into the arteries of the spine and spinal cord. 2. Experimental and clinical studies] Khvisiuk NI, et al. **Ortop Travmatol Protez** 1990 Jan;(1):24–6 (Eng. Abstr.) (Rus)
[A method of surgical treatment of habitual dislocation of the patella] Kostandian LI, et al. **Ortop Travmatol Protez** 1989 Aug;(8):43–4 (Rus)
[Possibilities of the rod apparatus of original construction in the treatment of fractures and dislocations of the bones of the extremities] Kostiuk AN, et al. **Ortop Travmatol Protez** 1990 Apr;(4):6–9 (Eng. Abstr.) (Rus)
[Arthrodesis of the distal tibiofibular articulation] Nochevkin VA, et al. **Ortop Travmatol Protez** 1989 Nov;(11):64–6 (Rus)
[Stable internal rod fixation of the spine] Pentelenyi T, et al. **Ortop Travmatol Protez** 1989 Sep;(9):15–7 (Rus)
[A method of fixation of posterior dislocation of the head of the fibula] Stepanova AA. **Ortop Travmatol Protez** 1989 Jul;(7):56–7 (Rus)
[Fractures of the radius neck associated with ulna fractures in children] Sysa NF. **Ortop Travmatol Protez** 1989 Nov; (11):47–9 (Eng. Abstr.) (Rus)
[The surgical treatment of dislocations and fracture-dislocations of cervical vertebrae 3–7] Voronovich IR, et al. **Ortop Travmatol Protez** 1989 Sep; (9):8–10 (Eng. Abstr.) (Rus)
[Severe complication of anterior crural dislocation] Polysalov VN. **Vestn Khir** 1989 May;142(5):77–8 (Rus)

THERAPY

Avoiding "death in the dental chair" [letter; comment] Mariani PJ. **Am J Emerg Med** 1990 Jan;8(1):85 Comment on: Am J Emerg Med 1989 May;7(3):329–35.
Conservative management of temporomandibular disorders: a posttreatment comparison between patients from a university clinic and from private practice. Randolph CS, et al. **Am J Orthod Dentofacial Orthop** 1990 Jul;98(1):77–82
Conservative management of a displaced medial clavicular physeal injury in an adolescent athlete. A case report and literature review. Zaslav KR, et al. **Am J Sports Med** 1989 Nov–Dec;17(6):833–6 (16 ref.)
Completely displaced supracondylar fracture of the humerus in children. A review of 1708 comparable cases. Kurer MH, et al. **Clin Orthop** 1990 Jul;(256):205–14 (62 ref.)
Problematic fractures and dislocations in the foot and ankle of athletes. Davis AW, et al. **Clin Sports Med** 1990 Jan; 9(1):163–81 (38 ref.)
The treatment of tarsometatarsal fracture–dislocation. Adelaar RS. **Instr Course Lect** 1990;39:141–5 (17 ref.)
Subtalar dislocations. Brennan MJ. **Instr Course Lect** 1990; 39:157–9 (3 ref.)
Congenital dislocation of the knee. Fernández-Palazzi F, et al. **Int Orthop** 1990;14(1):17–9
Compression of the anterior interosseous nerve after use of a sling for dislocation of the acromioclavicular joint. A report of two cases. O'Neill DB, et al. **J Bone Joint Surg [Am]** 1990 Aug;72(7):1100–2
Spontaneous atraumatic anterior subluxation of the sternoclavicular joint. Rockwood CA Jr, et al. **J Bone Joint Surg [Am]** 1989 Oct;71(9):1280–8
The management of acute acromioclavicular dislocation. A randomised prospective controlled trial. Bannister GC, et al. **J Bone Joint Surg [Br]** 1989 Nov;71(5):848–50
A technique for reducing diastasis of the symphysis pubis. Talbot D, et al. **J Bone Joint Surg [Br]** 1989 Nov; 71(5):865–6
Total dislocation of the talus. Maffulli N, et al. **J Foot Surg** 1989 May–Jun;28(3):208–12 (42 ref.)
Palmar dislocation of scaphoid and lunate as a unit. Sarrafian SK, et al. **J Hand Surg [Am]** 1990 Jan;15(1):134–9
Bennett's fracture. Kjaer-Petersen K, et al. **J Hand Surg [Br]** 1990 Feb;15(1):58–61
Interphalangeal dislocations of the fingers treated by an elastic double-finger bandage. Soelberg M, et al. **J Hand Surg [Br]** 1990 Feb;15(1):66–7
A critical look at the subluxation hypothesis [letter] Keating JC Jr. **J Manipulative Physiol Ther** 1990 Jul–Aug; 13(6):350–3
Traumatic atlantoaxial subluxation in children. de Beer JD, et al. **J Pediatr Orthop** 1990 May–Jun;10(3):397–400
Use of protrusive splint therapy in anterior disk displacement of the temporomandibular joint: a 1- to 3-year follow-up. Tallents RH, et al. **J Prosthet Dent** 1990 Mar;63(3):336–41
The traditional Chinese method of closed reduction of fractures and dislocations with a rolling rod. Further development in its use and the mechanical principles involved. Xu JB. **J Tradit Chin Med** 1982 Jun;2(2):111–4
The problem of Monteggia fracture-dislocations in children. Dormans JP, et al. **Orthop Clin North Am** 1990 Apr; 21(2):251–6
Acromioclavicular joint injuries. Cook DA, et al. **Orthop Rev** 1990 Jun;19(6):510–6 (24 ref.)
Management of coracoid process fracture with acromioclavicular joint dislocation. Kumar A. **Orthopedics** 1990 Jul;13(7):770–1; discussion 771–2
Treatment of habitual dislocation of the temporomandibular joint with subsynovial injection of sclerosant through arthroscope. Qiu WL, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(4):196–9
Simultaneous dislocation of the interphalangeal joints. A report of 2 cases. Rajoo RD, et al. **S Afr Med J** 1990 Jan 6;77(1):45–6
[Initial dislocation of the patella; which treatment?] Delince P, et al. **Acta Orthop Belg** 1989;55(3):411–27 (Eng. Abstr.) (Fre)
[Fracture-luxation of the Lisfranc joint. Apropos of 39 cases] Jarde O, et al. **Ann Chir** 1989;43(7):562–7 (Eng. Abstr.) (Fre)
[Force couple splint in unstable dislocation fracture of the interphalangeal joint] Amon K. **Unfallchirurg** 1990 Feb; 93(2):81–3 (Eng. Abstr.) (Ger)
[Lateral subtalar dislocation of the foot] Bär BW, et al. **Zentralbl Chir** 1989;114(21):1424–6 (Ger)
[Conservative treatment of acromioclavicular luxation] Fama G, et al. **Chir Organi Mov** 1989 Jan–Jun;74(1–2):45–50 (Eng. Abstr.) (Ita)
[Early results of the treatment of congenital hip dysplasia with dislocation at the Preluxation Clinic in Poznań] Lempicki A, et al. **Chir Narzadow Ruchu Ortop Pol** 1989; 54(3):256–61 (Eng. Abstr.) (Pol)

[Rendering aid on board to seamen with injuries of the locomotor system] Levitskil FA, et al. **Ortop Travmatol Protez** 1989 Aug;(8):55–8 **(Rus)**

[A method of correction of posterior dislocation of the fingers in post–burn deformity of the hand] Dmitriev GI, et al. **Vestn Khir** 1989 Jul;143(7):118–9 **(Rus)**

[Fractures of the radius neck associated with dislocation of the elbow joint in children] Sysa NF. **Vestn Khir** 1989 Nov; 143(11):82–4 **(Rus)**

VETERINARY

What is your diagnosis? Scapulohumeral luxation. Hardy J, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1773–4

Dorsal subluxation of the proximal interphalangeal joint in the pelvic limb of three horses. Shiroma JT, et al. **J Am Vet Med Assoc** 1989 Sep 15;195(6):777–80

Comparison of neck dislocation and percussion of the head on visual evoked responses in the chicken's brain. Gregory NG, et al. **Vet Rec** 1990 Jun 9;126(23):570–2

Proximal interphalangeal arthrodesis in the horse. A retrospective study and a modified screw technique. Caron JP, et al. **Vet Surg** 1990 May–Jun;19(3):196–202

DISODIUM CROMOGLYCATE

ADMINISTRATION & DOSAGE

Topical levocabastine versus sodium cromoglycate in allergic conjunctivitis. Odelram H, et al. **Allergy** 1989 Aug; 44(6):432–6

Combined effect of inhaled verapamil and sodium cromoglycate on the airway response to hypertonic saline. Kivity S, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):163–5

Comparison between bronchial response to inhaled hypoosmolar and isoosmolar solutions of sodium cromoglycate after exercise challenge. Soferman R, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):143–6

Nebulised sodium cromoglycate in infancy: airway protection after deterioration. O'Callaghan C, et al. **Arch Dis Child** 1990 Apr;65(4):404–6

Why nebulise for more than five minutes? O'Callaghan C, et al. **Arch Dis Child** 1989 Sep;64(9):1270–3

Duration of protective effect of terbutaline sulfate and cromolyn sodium alone and in combination on exercise–induced asthma. Woolley M, et al. **Chest** 1990 Jan; 97(1):39–45

Topical cromolyn (disodium cromoglycate) solution in the treatment of young children with atopic dermatitis [see comments] Kimata H, et al. **Clin Exp Allergy** 1990 May; 20(3):281–3 Comment in: Clin Exp Allergy 1990 May;20(3):243–4.

Mast cell stabilizers, anticholinergics, corticosteroids, and troleandomycin. Wynn SR. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 2):1100–3

Inhibition of fog–induced bronchoconstriction by nedocromil sodium and sodium cromoglycate in intrinsic asthma: a double–blind, placebo–controlled study. del Bufalo C, et al. **Respiration** 1989;55(3):181–5

[Effectiveness of various inhalation aids in children with bronchial asthma] Schöni MH, et al. **Schweiz Med Wochenschr** 1989 Nov 18;119(46):1636–7 (Eng. Abstr.) **(Ger)**

[Effectiveness and tolerance of disodium cromoglycate capsules in pellet form] Kapfhammer G, et al. **Wien Klin Wochenschr** 1990 Feb 16;102(4):117–9 (Eng. Abstr.) **(Ger)**

[The bronchospasmolytic effect of disodium cromoglycate] Flecker F. **Wien Med Wochenschr Suppl** 1989;104:suppl 60–1 **(Ger)**

[Improvement of airway hyperreactivity in bronchial asthma patients with short disease duration treated with anti–allergic agents] Hoshino K, et al. **Arerugi** 1989 May; 38(5):438–41 (Eng. Abstr.) **(Jpn)**

[Endonasal electrophoresis in the treatment of children with pollinosis and sinusitis] Selest M, et al. **Cesk Pediatr** 1989 Jul;44(7):427–9 **(Slo)**

METABOLISM

Characterization of the human peripheral lung adenosine receptor [see comments] Joad JP. **Am J Respir Cell Mol Biol** 1990 Feb;2(2):193–8 Comment in: Am J Respir Cell Mol Biol 1990 Feb;2(2):127–8.

PHARMACOKINETICS

How much aerosol reaches the lungs of wheezy infants and toddlers? Salmon B, et al. **Arch Dis Child** 1990 Apr; 65(4):401–3

The influence of liposomal encapsulation on sodium cromoglycate pharmacokinetics in man. Taylor KM, et al. **Pharm Res** 1989 Jul;6(7):633–6

PHARMACOLOGY

Effects of N–acetyl–aspartyl glutamic acid and sodium cromoglycate on leukotriene B4 secretion by human leukocytes. Goldschmidt PL, et al. **Allergy** 1990 Jul; 45(5):363–9

Cromolyn sodium does not inhibit hypoxic pulmonary vasoconstriction in sheep. Pearl RG. **Anesth Analg** 1990 Jul;71(1):83–7

Effect of disodium cromoglycate on deuterium oxide–induced degranulation of human eosinophils in allergic asthmatic patients in vitro. Palczyński C, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1–2):157–60

The abnormal in vitro response to aspirin of platelets from aspirin–sensitive asthmatics is inhibited after inhalation of nedocromil sodium but not of sodium cromoglycate. Marquette CH, et al. **Br J Clin Pharmacol** 1990 May; 29(5):525–31

Inhibition of neutrophil and eosinophil induced chemotaxis by nedocromil sodium and sodium cromoglycate. Bruijnzeel PL, et al. **Br J Pharmacol** 1990 Apr; 99(4):798–802

Inhibition of platelet–activating factor– and zymosan–activated serum–induced chemotaxis of human neutrophils by nedocromil sodium, BN 52021 and sodium cromoglycate. Bruijnzeel PL, et al. **Br J Pharmacol** 1989 Aug;97(4):1251–7

Inhibitory effect of disodium cromproxate on superoxide anion (O2–) generation and membrane potential changes in stimulated neutrophils. Wu RS, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Jan;10(1):74–8

The effects of ophthalmic solutions on the transmission of light through hydrogel lenses. Bergen G, et al. **CLAO J** 1990 Apr–Jun;16(2):114–6

The effect of alpha–tocopherol and Intal on heart capillary bed and lipid peroxide oxidation in experimental necrosis of the rat myocardium. Amatuni VG, et al. **Cor Vasa** 1989; 31(6):500–7

Sodium cromoglycate: a review. Patalano F, et al. **Eur Respir J Suppl** 1989 Jun;6:556s–560s (38 ref.)

Antigen–induced T–cell changes: modulation by pharmacologic agents. Varghese J, et al. **Lung** 1990; 168(2):69–78

Effect of inhaled disodium cromoglycate and albuterol on energy cost of running in asthmatic children. Zanconato S, et al. **Pediatr Pulmonol** 1990;8(4):240–4

The effect of sodium cromoglycate on the induction of experimental IgA nephropathy. Jin SY, et al. **Yonsei Med J** 1990 Mar;31(1):33–48

[The inhibitory effect of disodium cromoglycate on substance P sensory nerve fibres] Li J, et al. **Yao Hsueh Hsueh Pao** 1990;25(1):66–8 (Eng. Abstr.) **(Chi)**

[Study on the effect of disodium cromoglycate (DSCG) on antigen induced IL–2 responsiveness] Ichikawa K, et al. **Arerugi** 1989 Oct;38(10):1163–8 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Effect of allergen ingestion challenge with and without cromoglycate cover on intestinal permeability in atopic dermatitis, urticaria and other symptoms of food allergy. André C, et al. **Allergy** 1989;44 Suppl 9:47–51

Sodium cromoglycate in childhood atopic dermatitis treatment. Cavagni G, et al. **Allergy** 1989;44 Suppl 9:124–8

Sodium cromoglycate in the treatment of eosinophilic gastroenteritis. Di Gioacchino M, et al. **Allergy** 1990 Apr; 45(3):161–6

Inhibition of human allergic skin reactions in vivo by pretreatment with cromolyn (disodium cromoglycate). Kimata H, et al. **Allergy** 1990 Jul;45(5):393–5

Topical levocabastine protects better than sodium cromoglycate and placebo in conjunctival provocation tests. Rimås M, et al. **Allergy** 1990 Jan;45(1):18–21

Sodium cromoglycate therapy in IgA nephropathy: a preliminary short–term trial. Sato M, et al. **Am J Kidney Dis** 1990 Feb;15(2):141–6

Levocabastine versus cromolyn sodium in the treatment of pollen–induced conjunctivitis. Ciprandi G, et al. **Ann Allergy** 1990 Aug;65(2):156–8

Effect of fenoterol hydrobromide and sodium cromoglycate individually and in combination on postexercise asthma. Clarke PS, et al. **Ann Allergy** 1990 Feb;64(2 Pt 2):187–90

Effects of oral cromolyn on the nasal response due to foods. Pelikan Z, et al. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1238–43

Bronchial response to methacholine in "healthy" children of asthmatic parents. Effect of treatment with cromolyn sodium. Bruderman I, et al. **Chest** 1990 Feb;97(2):285–7

Effect of salbutamol, ipratropium bromide and cromolyn sodium on prostaglandin F2 alpha–induced bronchospasm. Georgopoulos D, et al. **Chest** 1989 Oct;96(4):809–14

Attenuation of the metabisulfite–induced bronchoconstrictive response by pretreatment with cromolyn. McClellan MD, et al. **Chest** 1990 Apr;97(4):826–30

Atopic dermatitis and cromolyn [editorial; comment] Sampson HA. **Clin Exp Allergy** 1990 May;20(3):243–4 Comment on: Clin Exp Allergy 1990 May;20(3):281–3.

Cost–effectiveness of including cromolyn sodium in the treatment program for asthma: a retrospective, record–based study. Ross RN, et al. **Clin Ther** 1988; 10(2):188–203

Diagnosis and management of asthma. Bernstein MS, et al. **Compr Ther** 1989 Dec;15(12):53–60 (26 ref.)

Disodium cromoglycate versus diet in the treatment and prevention of nickel–positive pompholyx. Pigatto PD, et al. **Contact Dermatitis** 1990 Jan;22(1):27–31

Pharmacotherapy with immunotherapy for the treatment of otolaryngic allergy. Mabry RL. **Ear Nose Throat J** 1990 Jan;69(1):63–71

Diagnosis and treatment of asthma across Europe. Ruggieri F, et al. **Eur Respir J Suppl** 1989 Jun;6:536s–539s

Cromolyn sodium in the management of systemic mastocytosis. Horan RF, et al. **J Allergy Clin Immunol** 1990 May;85(5):852–5

A double–blind, randomized study of sodium cromoglycate versus placebo in patients with cystic fibrosis and bronchial hyperreactivity. Sivan Y, et al. **J Allergy Clin Immunol** 1990 Mar;85(3):649–54

Cromolyn versus theophylline for treatment of asthma [letter] Randolph C. **J Pediatr** 1990 Aug;117(2 Pt 1):339–40

Attenuation of exercise induced asthma by nedocromil sodium and sodium cromoglycate. Sinclair DG, et al. **J R Army Med Corps** 1990 Jun;136(2):105–6

Adjuvant therapy of aspirin and cromoglycate 2% eye drops in vernal conjunctivitis. Srinivas C. **Korean J Ophthalmol** 1989 Jun;3(1):42–6

Cromoglycate treatment of patient with hyperimmunoglobulinaemia E syndrome [letter] Yokota S, et al. **Lancet** 1990 Apr 7;335(8693):857–8

Antiasthmatic therapy in children. Weinberger M. **Pediatr Clin North Am** 1989 Oct;36(5):1251–84 (150 ref.)

Reflections on the mechanism(s) of action of sodium cromoglycate (Intal) and the role of mast cells in asthma. Holgate ST. **Respir Med** 1989 May;83 Suppl A:25–31

Twenty years of sodium cromoglycate treatment: a short review. Kuzemko JA. **Respir Med** 1989 May;83 Suppl A:11–4; discussion 15–6

Are the results of early long–term trials of sodium cromoglycate valid? Turner–Warwick M. **Respir Med** 1989 May;83 Suppl A:7–8; discussion 8–10

The place of Intal in paediatric practice. Warner JO. **Respir Med** 1989 May;83 Suppl A:33–7

General practice aspects of Intal treatment. Wood SF. **Respir Med** 1989 May;83 Suppl A:39–41; discussion 41–2

Intranasal sodium cromoglycate in post–catarrhal hyperreactive rhinosinusitis: a double–blind placebo controlled trial. Sederberg–Olsen JF, et al. **Rhinology** 1989 Dec;27(4):251–5

[A clinical trial of the Bulgarian preparation Bicromat–spray in patients with bronchial asthma] Kosturkov G, et al. **Vutr Boles** 1989;28(4):38–40 **(Bul)**

[Idiopathic nephrotic syndrome. Effect of oral cromoglycate] Laurent J, et al. **Presse Med** 1990 May 19;19(20):950–2 (Eng. Abstr.) **(Fre)**

[Enterocolitis induced by gold salts. The value of sodium cromoglycate (letter)] Gillet P, et al. **Therapie** 1989 Jul–Aug;44(4):305 **(Fre)**

[Therapy of obstructive airway diseases. IV: medications with anti–allergic and anti–inflammatory action] Ukena D, et al. **Med Klin** 1990 Jul 15;85(7):440–2 (0 ref.) **(Ger)**

[Sodium cromoglycate versus placebo in histamine provocation in allergic subjects. A double–blind study] Bellioni P, et al. **Riv Eur Sci Med Farmacol** 1988 Feb; 10(1):37–40 (Eng. Abstr.) **(Ita)**

[Effects of flutropium bromide, a new anti–asthma drug, alone or in combination with salbutamol, aminophylline and disodium cromoglycate on the acetylcholine induced bronchoconstriction] Mizuno H, et al. **Nippon Yakurigaku Zasshi** 1990 Jan;95(1):31–40 (Eng. Abstr.) **(Jpn)**

[Bronchial asthma: intercrisis treatment] Scalabrin DM, et al. **Rev Paul Med** 1988 Sep–Oct;106(5):271–7 (57 ref.) **(Por)**

[Use of sodium cromoglycate in nebulizations for asthmatic children less than 7 years of age] Sienra Monge JJ, et al. **Rev Alerg Mex** 1990 Jan–Feb;37(1):7–12 (Eng. Abstr.) **(Spa)**

DISODIUM ETIDRONATE see **SODIUM ETIDRONATE**

DISOPROFOL see **PROPOFOL**

DISOPYRAMIDE

ADMINISTRATION & DOSAGE

[Palpitin in disorders of cardiac rhythm] Zadionchenko VS, et al. **Sov Med** 1989;(10):62–5 **(Rus)**

ADVERSE EFFECTS

Enzyme induction: rifampin–disopyramide interaction. Staum JM. **DICP** 1990 Jul–Aug;24(7–8):701–3

Disopyramide–induced hypoglycemia: case report and review of the literature. Cacoub P, et al. **Fundam Clin Pharmacol** 1989;3(5):527–35

Disopyramide: pulmonary complications and glaucoma [letter] Ahmad S. **Mayo Clin Proc** 1990 Jul;65(7):1030–1

Fatal torsade de pointes following jaundice in a patient treated with disopyramide. Schattner A, et al. **Postgrad Med J** 1989 May;65(763):333–4

[A case of non–insulin dependent diabetes mellitus whose insulin requirement was markedly reduced after disopyramide treatment in arrhythmia] Onoda N, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):820–5 **(Jpn)**

[Dissociated (dissimilar) atrial rhythms after administration of ritmilen] Kushakovskil MS, et al. **Kardiologiia** 1990 May; 30(5):81–4 **(Rus)**

ANALOGS & DERIVATIVES

Simultaneous determination of disopyramide and mono–N–dealkyldisopyramide enantiomers in plasma and urine by use of a chiral cellulose–derivative column. Echizen H, et al. **Clin Chem** 1990 Jul;36(7):1300–4

Frequency and voltage–dependent effects of

mono-N-dealkyldisopyramide, the major metabolite of disopyramide, in canine ventricular tissue. Toy W, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):603-11

Results of the treatment of cardiac arrhythmias with Palpitin. Ożarek-Medyńska T, et al. **Ther Hung** 1990;38(1):26-9

[Effects of verapamil and disopyramide phosphate on the termination, reinduction and long-term prevention of paroxysmal supraventricular tachycardia] Tsuchioka Y, et al. **Kokyu To Junkan** 1990 Mar;38(3):243-8 (Eng. Abstr.) **(Jpn)**

[Palpitin--an anti-arrhythmic drug in ischemic heart disease] Kuch J, et al. **Wiad Lek** 1990 Jan 1-15;43(1-2):23-7 (Eng. Abstr.) **(Pol)**

ANALYSIS

Simultaneous determination of disopyramide and mono-N-dealkyldisopyramide enantiomers in plasma and urine by use of a chiral cellulose-derivative column. Echizen H, et al. **Clin Chem** 1990 Jul;36(7):1300-4

BLOOD

Plasma protein binding of disopyramide in pregnant and postpartum women, and in neonates and their mothers. Echizen H, et al. **Br J Clin Pharmacol** 1990 Apr; 29(4):423-30

Comparison between two methods for the determination of the total and free (R)- and (S)-disopyramide in plasma using an alpha 1-acid glycoprotein column. Enquist M, et al. **J Chromatogr** 1989 Sep 29;494:143-56

PHARMACOKINETICS

Pharmacokinetics of disopyramide in the dog. Importance of mono-N-dealkylated metabolite kinetics in assessing pharmacokinetic modeling of the parent drug. Cook CS, et al. **Drug Metab Dispos** 1990 Jan-Feb;18(1):42-9

Clinical pharmacokinetics of levorotatory and racemic disopyramide, at steady state, following oral administration in patients with ventricular arrhythmias. Le Corre P, et al. **J Clin Pharmacol** 1989 Dec;29(12):1089-96

[Therapeutic drug monitoring of disopyramide, mexiletine, aprindine and beta blockers] Suzuki M. **Nippon Rinsho** 1990 Feb;48 Suppl:1173-80 **(Jpn)**

[Biological availability and assessment of the antiarrhythmic activity of Disocor and Disocor Retard] Sadowski Z, et al. **Wiad Lek** 1990 Jan 1-15;43(1-2):65-71 **(Pol)**

PHARMACOLOGY

New observations on the mechanisms of antiarrhythmic actions of disopyramide on cardiac membranes. Hiraoka M, et al. **Am J Cardiol** 1989 Dec 5;64(20):15J-19J

The effect of disopyramide on uterine contractions during pregnancy. Tadmor OP, et al. **Am J Obstet Gynecol** 1990 Feb;162(2):482-6

Effects of aprindine and disopyramide on reperfusion-induced arrhythmias and cardiac function in isolated rat hearts. Iwasaki S, et al. **Arch Int Pharmacodyn Ther** 1989 Jul-Aug;300:174-85

Cardiovascular effects of acute normovolemic hemodilution in rats with disopyramide-induced myocardial depression. Estafanous FG, et al. **Basic Res Cardiol** 1990 May-Jun; 85(3):227-36

The influence of acidosis on the myocardial uptake and electrocardiographic effects of disopyramide. Bova S, et al. **Eur J Pharmacol** 1989 Sep 13;168(2):179-85

Hemodynamic effects of mexiletine and disopyramide after cardioplegic arrest. Moritz A, et al. **Eur Surg Res** 1989; 21(6):327-35

Comparison of anticholinergic effects of cibenzoline, disopyramide, and atropine. Cazes M, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):308-16

Anticholinergic action of disopyramide in intestinal smooth muscle of the guinea pig: inhibition of muscarinic receptors (M1 and M2). Ishida Y, et al. **Jpn J Pharmacol** 1990 Feb; 52(2):363-70

Comparison of cardiovascular effects of pirmenol with those of disopyramide in isolated canine heart preparations cross-circulated with a donor dog. Sugiyama A, et al. **Jpn J Pharmacol** 1990 May;53(1):97-110

Antiarrhythmic activity and unbound concentrations of disopyramide enantiomers in patients. Lima JJ, et al. **Ther Drug Monit** 1990 Jan;12(1):23-8

[Spinal reflexes and somatosensory evoked potentials studied in the baboon in the presence of anti-arrhythmic drugs] Françon D, et al. **Neurophysiol Clin** 1989 Dec; 19(6):495-512 (Eng. Abstr.) **(Fre)**

[Studies on the mechanisms of action of disopyramide on insulin secretion. The modification by high glucose solution] Kimura F, et al. **Nippon Ika Daigaku Zasshi** 1990 Feb;57(1):64-72 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Usefulness of disopyramide for prevention of upright tilt-induced hypotension-bradycardia. Milstein S, et al. **Am J Cardiol** 1990 Jun 1;65(20):1339-44

Disopyramide in hypertrophic cardiomyopathy [letter] van der Wall E. **Am J Cardiol** 1990 Jan 15;65(3):266

[Multicenter comparative studies of the effectiveness and tolerance of propafenone and disopyramide in the treatment of premature ventricular beats] Lukasik S, et al. **Pol Arch Med Wewn** 1987 Jun;77(6):291-9 (Eng. Abstr.) **(Pol)**

DISPLACEMENT (PSYCHOLOGY)

Self-cathexis and other-cathexis. Vicissitudes in the history of an observation. Macdiarmid D. **Br J Psychiatry** 1989 Jun;154:844-52

Social-cognitive correlates of children's understanding of displaced aggression. Miller PH, et al. **J Exp Child Psychol** 1990 Jun;49(3):488-504

DISPOSABLE EQUIPMENT

Administration of growth hormone by disposable preloaded syringes. Danielson K, et al. **Acta Paediatr Scand Suppl** 1990;366:143-6

Acanthamoeba keratitis occurring with disposable contact lens wear. Ficker L, et al. **Am J Ophthalmol** 1989 Oct 15; 108(4):453

A disposable blood pressure cuff. An assessment of its accuracy. Dodd FM, et al. **Anaesthesia** 1990 Aug; 45(8):666-8

Breakage of disposable needles [letter] Hearn M. **Anaesthesia** 1990 Aug;45(8):698

A disposable device for patient-controlled analgesia with fentanyl. Rowbotham DJ, et al. **Anaesthesia** 1989 Nov; 44(11):922-4

Choledochoscopy via the cystic duct: evaluation of a new ultrathin disposable choledochoscope [see comments] Dennis MJ, et al. **Ann R Coll Surg Engl** 1989 Sep; 71(5):320-1 Comment in: Ann R Coll Surg Engl 1990 Mar;72(2):147-8.

Allergic reactions to cold sterilising solutions [letter; comment] Leong ML. **Br Dent J** 1989 Oct 21;167(8):265 Comment on: Br Dent J 1989 Aug 5;167(3):95.

Dangerous fault in disposable connector for orotracheal tube [letter] Osterud A. **Br J Anaesth** 1974 Dec;46(12):952

At last--a disposable articulator! Jones ML. **Br J Orthod** 1990 Feb;17(1):55-6

Risk of cross-infection related to the multiple use of disposable syringes. Trépanier CA, et al. **Can J Anaesth** 1990 Mar;37(2):156-9

USSC auto suture disposable surgical staplers. **Health Devices** 1988 Mar;17(3):102-3

Heated wires can melt disposable breathing circuits. **Health Devices** 1989 May;18(5):174-5

Morrow Brown skin test needle [letter; comment] Brown HM. **J Allergy Clin Immunol** 1990 Feb;85(2):529 Comment on: J Allergy Clin Immunol 1989 Aug;84(2):168-74.

Disposable filters may damage your cells [letter] Knight DE. **Nature** 1990 Jan 18;343(6255):218

In vivo dehydration of disposable (Acuvue) contact lenses. Brennan NA, et al. **Optom Vis Sci** 1990 Mar;67(3):201-3

Disposable flexible fiberoptic mini-bronchoscope for evaluating the pediatric airway. Finkelhor BK, et al. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):511-2

The disposable cautery: a fire hazard [letter] Curtin JW. **Plast Reconstr Surg** 1989 Nov;84(5):853

Use of flexible protective gloves: another viewpoint [letter; comment] Dorne HL. **Radiology** 1990 Jul;176(1):287-8 Comment on: Radiology 1990 Jan;174(1):275-6.

Use of flexible protective gloves [letter; comment] Kelsey CA, et al. **Radiology** 1990 Jul;176(1):287 Comment on: Radiology 1990 Feb;174(2):581.

Increasing the usefulness of disposable lead gloves [letter] [see comments] Ullman JM. **Radiology** 1990 Feb;174(2):581 Comment in: Radiology 1990 Jul;176(1):287.

AID aids AIDS efforts with new syringes [news] **Science** 1990 Jul 6;249(4964):20

Achievement of stomal continence in one-third of colostomies by use of a new disposable plug. Clague MB, et al. **Surg Gynecol Obstet** 1990 May;170(5):390-4

Disposable soft contact lenses. Driebe WT Jr. **Surv Ophthalmol** 1989 Jul-Aug;34(1):44-6 (17 ref.)

[A single-use vascular clamp. An experimental and clinical study] Dap F, et al. **Ann Chir Main** 1989;8(3):265-8 (Eng. Abstr.) **(Fre)**

[The safety of disposable medical products] Haindl H. **Biomed Tech (Berlin)** 1990 Mar;35(3):36-40 (Eng. Abstr.) **(Ger)**

[Safety monitoring of disposable medical products] Müller H. **Biomed Tech (Berlin)** 1990 Mar;35(3):41-3 (Eng. Abstr.) **(Ger)**

[Reuse of disposable equipment from the legal viewpoint] Weissauer W. **Chirurg** 1990 Feb;61(2):26-8 **(Ger)**

[The use of disposable draping materials in the operating room and its effect on the postoperative wound infection rate] Müller W, et al. **Wien Klin Wochenschr** 1989 Dec 8;101(23):837-42 (Eng. Abstr.) **(Ger)**

ECONOMICS

Hidden costs of disposables: is color coding desirable? [letter] Karis JH. **Anesth Analg** 1990 Aug;71(2):203-4

Saving money by reusing dialyzers. Cartier P, et al. **Dimens Health Serv** 1989 Oct;66(7):11, 35

Cost of reusable vs. disposable diapers in dispute. Moran EJ. **Hospitals** 1990 Sep 5;64(17):84, 86

Closed disposable suction systems: need, waste or hazard [letter] Daschner F. **J Hosp Infect** 1990 May;15(4):396-7

STANDARDS

Preclinical safety testing of plastic products intended for use in man. Leuschner J, et al. **Biomed Tech (Berlin)** 1990 Mar; 35(3):44-7 (17 ref.)

Pre-use inspection of disposables. **Health Devices** 1989 Feb; 18(2):87

Defibrillation: ensuring its success. **Health Devices** 1990 Feb; 19(2):32-56

Disposable pressure transducers and multiple-pressure-channel physiologic monitors. **Health Devices** 1988 Nov;17(11):357

Disposable pressure transducers. **Health Devices** 1988 Dec; 17(12):367-8

Disposable pressure transducers. **Health Devices** 1988 Mar; 17(3):75-94

Dryden 10100 disposable CO2 absorbers. **Health Devices** 1988 Sep;17(9):276-7

[The disposable contact lens (letter)] Rosenbrand RM. **Ned Tijdschr Geneeskd** 1989 Jul 15;133(28):1424-5 **(Dut)**

[The disposable contact lens (letter)] Rutten HJ. **Ned Tijdschr Geneeskd** 1989 Oct 14;133(41):2042 **(Dut)**

TRENDS

[What is a time machine worth? (editorial)] Frucht U. **Biomed Tech (Berlin)** 1990 Mar;35(3):34-5 **(Ger)**

DISSECTING ANEURYSM see ANEURYSM, DISSECTING

DISSECTION

Learning human anatomy: by dissection or from prosections? Nnodim JO. **Med Educ** 1990 Jul;24(4):389-95

[Errors in dissection of the ligament of Treitz] Andrianov AV, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):104-6 **(Rus)**

METHODS

Surgical anatomy of the internal auditory canal. A temporal bone dissection study. Laine T, et al. **Acta Otolaryngol (Stockh)** 1990 Jul-Aug;110(1-2):78-84

Simultaneous liver and whole pancreas harvesting in the multiorgan cadaveric donor. Corman J, et al. **Can J Surg** 1990 Aug;33(4):277-81

Protection of human left ventricular myocardium from cutting injury with 2,3-butanedione monoxime. Mulieri LA, et al. **Circ Res** 1989 Nov;65(5):1441-9

Reduced-size orthotopic liver transplantation: use in the management of children with chronic liver disease. Emond JC, et al. **Hepatology** 1989 Nov;10(5):867-72

DISSEMINATED INTRAVASCULAR COAGULATION

Abdominal pain, total intravascular hemolysis, and death in a 53-year-old woman [clinical conference] **Am J Med** 1990 Jun;88(6):667-74 (15 ref.)

Disseminated intravascular coagulation: diagnosis and current therapy. Choudhry VP, et al. **Indian Pediatr** 1990 Mar;27(3):280-8 (30 ref.)

[Worsening of chronic disseminated intravascular coagulation after embolization of the renal artery] Galet A, et al. **Ann Fr Anesth Reanim** 1990;9(1):87-9 (Eng. Abstr.) **(Fre)**

[Current clinical relevance of disseminated intravascular coagulation] Barbui T. **Haematologica (Pavia)** 1989 Oct; 74(5 Suppl):66-73 (29 ref.) **(Ita)**

BLOOD

Fibronectin in meningococcal sepsis. Correlation with antithrombin III and protein C. Blanco A, et al. **Acta Paediatr Scand** 1990 Jan;79(1):73-6

Alterations in the blood clotting system in disseminated intravascular coagulation. Phillips LL. **Am J Cardiol** 1967 Aug;20(2):174-84

Thrombin vs. plasmin generation in disseminated intravascular coagulation associated with various underlying disorders. Takahashi H, et al. **Am J Hematol** 1990 Feb;33(2):90-5

Disseminated intravascular coagulation in rabbits induced by administration of endotoxin or tissue factor: effect of anti-tissue factor antibodies and measurement of plasma extrinsic pathway inhibitor activity. Warr TA, et al. **Blood** 1990 Apr 1;75(7):1481-9

The effects of the calcium entry blockers, nilvadipine and nitrendipine, on endotoxin-induced disseminated intravascular coagulation. Lee HC, et al. **Life Sci** 1989; 45(10):877-83

Fibrinolysis and fibrinogenolysis in disseminated intravascular coagulation. Takahashi H, et al. **Thromb Haemost** 1990 Jun 28;63(3):340-4

Increased proteolysis of antithrombin III Vicenza during disseminated intravascular coagulation in acute leukemia. Castaman G, et al. **Thromb Res** 1989 Sep 1;55(5):661-4

Protein C decreases in experimental DIC in rats. Kogan AE, et al. **Thromb Res** 1990 Mar 1;57(5):825-6

New rapid assay for factor XIa-alpha 1 antitrypsin complex--application to DIC. Komiyama Y, et al. **Thromb Res** 1989 Sep 1;55(5):527-36

[Hemostatic changes before and after the onset of disseminated intravascular coagulation] Wada H, et al. **Rinsho Ketsueki** 1989 Oct;30(10):1755-62 (Eng. Abstr.) **(Jpn)**

[The dynamics of perioperative coagulopathies in lung cancer

patients depending on the type of anesthesia and on the change in the level of endogenous intoxication] Kosonogov LF, et al. **Anesteziol Reanimatol** 1990 Jan–Feb;(1):6–9 (Eng. Abstr.) **(Rus)**

[The hemostatic system and DIC syndrome in cholestatic forms of viral hepatitis] Fedenko IuI. **Vrach Delo** 1989 Sep; (9):110–2 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Disseminated intravascular coagulation (DIC) after endoscopic injection sclerotherapy with ethanolamine oleate [letter] Bellary SV, et al. **Endoscopy** 1990 May; 22(3):151

Fatal phenolphthalein poisoning with fulminant hepatic failure and disseminated intravascular coagulation. Sidhu PS, et al. **Hum Toxicol** 1989 Sep;8(5):381–4

Gaboon viper envenomation: an unexpected big-city emergency. Brown R, et al. **Pediatr Emerg Care** 1989 Dec; 5(4):248–9

Cyclosporine A and intravascular coagulation. Landmann J, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1817–9

[Respiratory distress in adults and disseminated intravascular coagulation after administration of iodinated contrast] Bisbe E, et al. **Rev Esp Anestesiol Reanim** 1990 May–Jun; 37(3):156–9 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Post-traumatic respiratory distress due to endotoxinaemia and intravascular coagulation. Stoddart JC, et al. **Br J Anaesth** 1974 Nov;46(11):892–6

Blue rubber-bleb naevus syndrome: report of a case with consumption coagulopathy complicated by manifest thrombosis. Hofhuis WJ, et al. **Eur J Pediatr** 1990 May; 149(8):526–8

A rapidly progressing lethal case of neuroleptic malignant syndrome. Lenler-Petersen P, et al. **Intensive Care Med** 1990;16(4):267–8

An unusual case of phaeochromocytoma [letter; comment] Bhat KS. **J Assoc Physicians India** 1989 Sep;37(9):617–8 Comment on: J Assoc Physicians India 1987 Feb;35(2):169–70.

Multiple uterine rupture and crushing injury of the fetal skull after blunt maternal trauma. A case report. Landers DF, et al. **J Reprod Med** 1989 Dec;34(12):988–93

Study of skin lesions in 221 patients of meningococcal disease. Jamil S. **JPMA** 1989 Sep;39(9):239–40

Sequential occurrence of immune pancytopenia and de novo DIC in a child with polyclonal immunoblastosis. Hanada T, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Jul; 52(4):778–84

Infantile hemangioendothelioma of the pelvis associated with Kasabach–Merritt syndrome. Dabashi Y, et al. **Pediatr Pathol** 1990;10(3):407–15

Disseminated intravascular coagulation in association with cavitary tuberculosis. Stein DS, et al. **South Med J** 1990 Jan;83(1):60–3 (23 ref.)

[A case of miliary tuberculosis associated with ARDS, DIC and bilateral pneumothorax] Hamamoto Y, et al. **Kekkaku** 1989 Nov;64(11):713–9 (Eng. Abstr.) **(Jpn)**

[Successful surgical treatment of infective endocarditis complicated with DIC and intracerebral hemorrhage] Hamada Y, et al. **Kyobu Geka** 1989 Sep;42(10):869–72 (Eng. Abstr.) **(Jpn)**

[Hemorrhagic gastric ulcer associated with consumption coagulopathy in the dissecting aortic aneurysm—a case report] Konno H, et al. **Nippon Geka Gakkai Zasshi** 1989 Aug;90(8):1266–9 (Eng. Abstr.) **(Jpn)**

[A case of early gastric carcinoma with disseminated carcinomatosis of bone marrow] Yasutake K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1304–9 (25 ref.) **(Jpn)**

[Studies of two cases of ruptured intracranial aneurysm with disseminated intravascular coagulation] Toyoda O, et al. **No Shinkei Geka** 1989 Nov;17(11):1083–7 (Eng. Abstr.) **(Jpn)**

[Successful treatment by a drainage of subdural hematoma in a case of intracranial hemorrhage due to DIC complicated with acute promyelocytic leukemia] Nakagawa T, et al. **Rinsho Ketsueki** 1989 Jun;30(6):874–7 (Eng. Abstr.) **(Jpn)**

[Intravascular blood coagulation in diseases of the respiratory organs] Ena IaM, et al. **Ter Arkh** 1990;62(3):138–43 (97 ref.) **(Rus)**

[Changes in hemostasis as one of the paraneoplastic manifestations] Hromec A, et al. **Bratisl Lek Listy** 1990 Apr;91(4):284–8 (Eng. Abstr.) **(Slo)**

[Association of acute leukemia with disseminated intravascular coagulation in adults. Analysis of 14 cases] Zuazu I, et al. **Med Clin (Barc)** 1989 Oct 21;93(12):441–4 (Eng. Abstr.) **(Spa)**

[Paraneoplastic thrombosis of the upper longitudinal sinus, chronic disseminated intravascular coagulation and mental neuropathy in a female patient with carcinoma of the breast (letter)] Kulisevsky J, et al. **Neurologia** 1986 Jan–Feb; 1(1):45–7 **(Spa)**

[Peripheral gangrene in pneumococcal infections and disseminated intravascular coagulation] Edler D, et al. **Lakartidningen** 1989 Sep 20;86(38):3142 **(Swe)**

DIAGNOSIS

The recognition of intravascular clotting. The plasma protamine paracoagulation test. Seaman AJ. **Arch Intern Med** 1970 Jun;125(6):1016–21 (14 ref.)

[HELLP syndrome without fragmentocytes and disseminated intravascular coagulation] Schröcksnadel H, et al. **Geburtshilfe Frauenheilkd** 1990 May;50(5):421 **(Ger)**

[Disseminated intravascular coagulation and acute hepatic necrosis at the end of pregnancy. A case report] Sechi LA, et al. **Minerva Med** 1989 Dec;80(12):1367–72 (Eng. Abstr.) **(Ita)**

[A proposed method for the laboratory diagnosis of disseminated intravascular coagulation in liver cirrhosis] Cristani A, et al. **Recenti Prog Med** 1990 May;81(5):322–4 (Eng. Abstr.) **(Ita)**

[Measurement of FDP-D-dimer in DIC and pre-DIC] Takagi M, et al. **Rinsho Byori** 1990 Jul;38(7):806–12 (Eng. Abstr.) **(Jpn)**

[The importance of rapid methods for the diagnosis of consumption thrombocytopathy in labor] Mukhitdinova TK. **Akush Ginekol (Mosk)** 1989 Nov;(11):65–6 **(Rus)**

[Recognition of the disseminated intravascular coagulation syndrome: methodology and expert assessment] Barkagan ZS, et al. **Lab Delo** 1989;(7):30–5 (Eng. Abstr.) **(Rus)**

[Emergency diagnosis of DIC syndrome complicated by hemorrhage using an expert computer program] Tsushko VS, et al. **Sov Med** 1990;(6):89–92 **(Rus)**

DRUG THERAPY

Treatment of patients with disseminated intravascular coagulation by protein C. Okajima K, et al. **Am J Hematol** 1990 Apr;33(4):277–8

Emergency treatment with ketoconazole in disseminated intravascular coagulation due to metastatic prostatic carcinoma [published erratum appears in J Assoc Physicians India 1990 Mar;38(3):205] Bhadoria DP, et al. **J Assoc Physicians India** 1989 Dec;37(12):792–3

Heparin for uncontrolled disseminated intravascular coagulation in meningococcal septicaemia. Ewing CI, et al. **J R Soc Med** 1989 Dec;82(12):762–3

Therapeutic use of antithrombin III in shock and disseminated intravascular coagulation. Vinazzer H. **Semin Thromb Hemost** 1989 Jul;15(3):347–52

Inhibition by recombinant hirudins of experimental venous thrombosis and disseminated intravascular coagulation induced by tissue factor in rats. Freund M, et al. **Thromb Haemost** 1990 Apr 12;63(2):187–92

Clinical effect of low molecular weight heparin (fragmin) on DIC: a multicenter cooperative study in Japan. Oguma Y, et al. **Thromb Res** 1990 Jul 1;59(1):37–49

Prevention of severe bleeding by tranexamic acid in a patient with disseminated intravascular coagulation. Takada A, et al. **Thromb Res** 1990 Apr 15;58(2):101–8

[Therapy with antithrombin III in burned children—pilot study] Del Principe D, et al. **Haematologica** 1990 Mar–Apr; 75 Suppl 2:33–40 **(Ita)**

[Preliminary study for the evaluation of the feasibility of a multicenter clinical trial for the evaluation of the therapeutic efficacy of an antithrombin III concentration (Immuno) in the intravascular coagulation syndrome] Palareti G, et al. **Haematologica** 1990 Mar–Apr;75 Suppl 2:21–32 **(Ita)**

[Disseminated intravascular coagulation in children. Therapeutic problems] Fiori GM, et al. **Pediatr Med Chir** 1989 Sep–Oct;11(5):491–4 (26 ref.) (Eng. Abstr.) **(Ita)**

[Evaluation of FOY therapy for DIC or pre-DIC associated with neurosurgical disease] Wakui K, et al. **No Shinkei Geka** 1990 Jul;18(7):609–17 (Eng. Abstr.) **(Jpn)**

[Disseminated intravascular coagulation related to atherosclerosis and aneurysm of aorta: successful management with subcutaneous self injection of heparin sodium] Takahashi K, et al. **Rinsho Ketsueki** 1989 Oct; 30(10):1820–5 (Eng. Abstr.) **(Jpn)**

[Chronic disseminated intravascular coagulation due to abdominal true aneurysm in two cases—effect of anti-platelet and anti-fibrinolytic therapy] Tomeoku M, et al. **Rinsho Ketsueki** 1989 Dec;30(12):2189–93 (Eng. Abstr.) **(Jpn)**

[Heparin therapy of pregnant women with placental insufficiency] Makatsariia AD, et al. **Akush Ginekol (Mosk)** 1989 Aug;(8):30–3 (Eng. Abstr.) **(Rus)**

[Status of blood coagulation in acute intestinal infection in infants: effect of various combinations of infusion media] Kramarev SA. **Pediatriia** 1990;(1):73–7 **(Rus)**

[Hemorrhagic complications caused by heparin therapy] Fedorova ZD, et al. **Vestn Khir** 1989 Dec;144(12):82–5 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Disseminated intravascular coagulation and trauma. Stacca R, et al. **Resuscitation** 1989 Dec;18(2–3):151–2

ETIOLOGY

Fatal pneumococcal bacteremia with disseminated intravascular coagulation and Waterhouse-Friderichsen syndrome in a vaccinated splenectomized adult. Case report. Lindblad BE, et al. **Acta Chir Scand** 1990 Jun–Jul; 156(6–7):487–8

Disseminated intravascular coagulation and myocardial infarction in a haemophilia B patient during therapy with prothrombin complex concentrates. Chistolini A, et al. **Acta Haematol (Basel)** 1990;83(3):163–5

Phagocytic multiple myeloma with disseminated intravascular coagulation. Matsuzaki H, et al. **Acta Haematol (Basel)** 1989;82(2):91–4

Histiocytic hemophagocytosis in the bone marrow in children with sepsis and disseminated intravascular coagulation. Hara T, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Jun; 31(3):335–9

Disseminated intravascular coagulation in experimental and clinical shock. Hardaway RM. **Am J Cardiol** 1967 Aug; 20(2):161–73 (2 ref.)

Acquired antithrombin III deficiency: laboratory diagnosis, incidence, clinical implications, and treatment with antithrombin III concentrate. Büller HR, et al. **Am J Med** 1989 Sep 11;87(3B):44S–48S (54 ref.)

Disseminated intravascular coagulopathy and adult respiratory distress syndrome: life-threatening complications of hysteroscopy. Jedeikin R, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):44–5

Hyperthermia, pulmonary edema, and disseminated intravascular coagulation in an 18-year-old military recruit [clinical conference] Tek DA, et al. **Ann Emerg Med** 1990 Jun;19(6):715–22

Disseminated intravascular coagulation during heparin therapy. Klein HG, et al. **Ann Intern Med** 1974 Apr; 80(4):477–81

The surgical implications of purpura fulminans. Cohen JR, et al. **Ann Vasc Surg** 1990 May;4(3):276–9

Disseminated intravascular coagulation in virus diseases. McKay DG, et al. **Arch Intern Med** 1967 Aug; 120(2):129–52 (67 ref.)

Systemic candidiasis with DIC and candida endophthalmitis in a postoperative neonate. Doi O, et al. **Aust Paediatr J** 1989 Dec;25(6):372–5 (22 ref.)

Selected anatomic burn pathology review for clinicians and pathologists. Goodwin MN Jr. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 2):B39–43

The salvaged blood syndrome: a sequel to mechanochemical activation of platelets and leukocytes? Bull BS, et al. **Blood Cells** 1990;16(1):5–20; discussion 20–3

DIC after bone marrow harvesting in a patient with Hodgkin's disease in remission [letter] McCarthy DM, et al. **Bone Marrow Transplant** 1990 Jun;5(6):443

Disseminated intravascular coagulation complicating Ender's nailing of a pathologic fracture in prostatic carcinoma. A case report. Olson SA, et al. **Clin Orthop** 1990 Sep; (258):242–4

Intraoperative disseminated intravascular coagulation in a patient with ulcerative colitis. Wong TZ, et al. **Conn Med** 1989 Oct;53(10):577–8

Hemorrhagic shock and encephalopathy syndrome of infants and children [letter] Conway EE Jr, et al. **Crit Care Med** 1990 Jul;18(7):792

Purpura fulminans associated with overwhelming sepsis and disseminated intravascular coagulation following splenectomy. Shperber Y, et al. **Isr J Med Sci** 1989 Nov; 25(11):657–9

Disseminated intravascular coagulation. Chugh SN, et al. **J Assoc Physicians India** 1989 Oct;37(10):654–7

Purpura fulminans. Singer RM, et al. **J Hand Surg [Am]** 1990 Jan;15(1):172–5

Cerebral infarction due to disseminated intravascular coagulation with thromboexclusion for dissecting aortic aneurysma. Urakami K, et al. **Jpn J Psychiatry Neurol** 1989 Jun;43(2):241–4

Hepatic neoplasms: effects of transcatheter arterial embolization on coagulation and fibrinolysis. Katsushima S, et al. **Radiology** 1990 Mar;174(3 Pt 1):747–50

Disseminated intravascular coagulation due to malignancy. Colman RW, et al. **Semin Oncol** 1990 Apr;17(2):172–86 (183 ref.)

Disseminated intravascular coagulation after hepatic resection. Tsuzuki T, et al. **Surgery** 1990 Feb;107(2):172–6

DIC and acute renal failure as a complication of abruptio placentae. Mahmoodian S. W V **Med J** 1989 Dec; 85(12):527–30

Fatal intraoperative disseminated intravascular coagulation. Urbanowicz JH, et al. **West J Med** 1989 Dec;151(6):663–5

[Intravascular coagulation in amniotic fluid embolism] Angelov A. **Akush Ginekol (Sofiia)** 1989;28(5):24–9 (Eng. Abstr.) **(Bul)**

[Dissecting aneurysm of the aorta associated with local consumption coagulopathy] Chen WJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Nov–Dec; 88(11–12):1167–70 (Eng. Abstr.) **(Chi)**

[Disseminated intravascular coagulation as a complication of aspiration pneumonia in a neonate] Stejskal J, et al. **Cesk Pediatr** 1990 Jan;45(1):45–6 **(Cze)**

[Disseminated intravascular coagulation and pneumococcal septicemia after splenectomy] Bremmelgaard A, et al. **Ugeskr Laeger** 1990 Mar 5;152(10):678–80 (Eng. Abstr.) **(Dan)**

[Pulmonary embolism and disseminated intravascular coagulation after being bitten by a Bothrops lanceolatus snake. Apropos of a case] Estrade G, et al. **Arch Mal Coeur** 1989 Nov;82(11):1903–5 (Eng. Abstr.) **(Fre)**

[Defibrination syndrome after snake bites] Meissner A, et al. **Dtsch Med Wochenschr** 1989 Sep 29;114(39):1484–7 (Eng. Abstr.) **(Ger)**

[Mucin-producing signet ring cell carcinoma of stomach

accompanied by microangiopathic hemolytic anemia and disseminated intravascular coagulation: a case report] Tsuchiya Y, et al. **Fukuoka Igaku Zasshi** 1989 Oct; 80(10):477–81 (Eng. Abstr.) **(Jpn)**

[Disseminated intravascular coagulation (DIC) after artificial valve replacement: especially tricuspid regurgitation] Satokawa H, et al. **Kyobu Geka** 1990 Apr;43(4):271–5 (Eng. Abstr.) **(Jpn)**

[Effect of sequential MTX/5-FU therapy for a case of disseminated intravascular coagulation syndrome associated with recurrence of gastric cancer—a case report] Koike H, et al. **Nippon Geka Gakkai Zasshi** 1989 Jul; 90(7):1117–21 (Eng. Abstr.) **(Jpn)**

[A case of disseminated intravascular coagulation thought to be caused by tooth extraction in the hypercoagulable condition due to abdominal aortic aneurysm] Chishiro T. **Nippon Naika Gakkai Zasshi** 1989 Dec;78(12):1777–8 **(Jpn)**

[Shock and disseminated intravascular coagulation due to sclerotherapy of esophageal varices] Noro Y, et al. **Nippon Rinsho** 1990 Apr;48(4):830–6 **(Jpn)**

[Coagulation abnormalities and DIC in severe acute pancreatitis] Ogawa M. **Nippon Rinsho** 1990 Jan; 48(1):140–7 **(Jpn)**

[Studies on the role of leukocytes in the activation of intravascular coagulation in septicemia] Okajima K, et al. **Rinsho Byori** 1990 Jul;38(7):799–805 (Eng. Abstr.) **(Jpn)**

[Ph1 positive acute lymphoblastic leukemia with DIC after operation of colon and lung cancer] Yashige H, et al. **Rinsho Ketsueki** 1989 Jul;30(7):1074–8 (Eng. Abstr.) **(Jpn)**

[Disorders of the system of hemostasis in patients with juvenile rheumatoid arthritis and rheumatic fever] Maćkowiak J. **Pediatr Pol** 1989 Apr;64(4):229–40 (Eng. Abstr.) **(Pol)**

[Hemolytic-uremic syndrome associated with disseminated intravascular coagulation] Janiak B, et al. **Wiad Lek** 1989 Oct 1–Nov 1;42(19–21):1066–8 (Eng. Abstr.) **(Pol)**

[Hemostasis and homeostasis] Glants RM. **Gematol Transfuziol** 1989 Jun;34(6):7–13 (Eng. Abstr.) **(Rus)**

[The role of disorders of components of the RASC system (regulation of the aggregation system of coagulation) in the pathogenesis of microangiopathies in vibration disease] Pakhomova AM, et al. **Gig Tr Prof Zabol** 1989;(7):10–3 (Eng. Abstr.) **(Rus)**

[Disorders of fibrinogen metabolism in thoracic and abdominal injuries] Chalenko VV. **Klin Med (Mosk)** 1990 May;68(5):121–4 **(Rus)**

[Clinico-morphologic characteristics of pneumococcal meningoencephalitis] Frolov AF, et al. **Klin Med (Mosk)** 1989 Dec;67(12):83–8 (Eng. Abstr.) **(Rus)**

[Significance of lipid peroxidation in the pathogenesis of hemorrhagic fever with nephrotic syndrome] Kovalskiĭ IuG, et al. **Klin Med (Mosk)** 1989 Nov;67(11):108–12 (Eng. Abstr.) **(Rus)**

[Characteristics of thrombohemorrhagic syndrome in patients with acute intestinal infections] Permitina MI, et al. **Klin Med (Mosk)** 1989 Nov;67(11):117–21 **(Rus)**

[Fibrin-fibrinogen degradation products in connective tissue diseases] Shchepotin BM, et al. **Revmatologiia (Moskva)** 1989 Apr–Jun;(2):64–8 (48 ref.) **(Rus)**

[Disorders of hemostasis and fibrinolysis in hemorrhagic erysipelas] Cherkasov VIa, et al. **Sov Med** 1989;(10):105–8 **(Rus)**

[The mechanisms of intravascular blood coagulation in patients with systemic scleroderma] Diubanova GA, et al. **Ter Arkh** 1990;62(5):63–6 (Eng. Abstr.) **(Rus)**

[Postoperative disorders of the hemostasis system in children] Vetlitskaia NA, et al. **Vestn Khir** 1989 Aug;144(8):83–7 (Eng. Abstr.) **(Rus)**

[Status of trigeminal neuralgia and its pathogenetic therapy] Megdiatov RS, et al. **Zh Nevropatol Psikhiatr** 1990; 90(4):13–6 (Eng. Abstr.) **(Rus)**

[Intravascular coagulation associated with aortic aneurysm] Macedo NA, et al. **Med Cutan Ibero Lat Am** 1989; 17(5):311–4 (Eng. Abstr.) **(Spa)**

MORTALITY

Disseminated fibrin thromboembolism among neonates dying within 48 hours of birth. Boyd JF. **Arch Dis Child** 1967 Aug;42(224):401–9

Intravascular coagulation in relation to pregnancy and delivery. Angelov A. **Zentralbl Gynakol** 1989; 111(17):1169–75

PATHOLOGY

Local tissue damage in disseminated intravascular clotting. Margaretten W. **Am J Cardiol** 1967 Aug;20(2):185–90 (24 ref.)

One-stage method for assay of tissue factor activity of leukemic cell with special reference to disseminated intravascular coagulation. Andoh K, et al. **Am J Clin Pathol** 1990 May;93(5):679–84

Neonatal form of nemaline myopathy, muscle immaturity, and a microvascular injury. Fidziańska A, et al. **J Child Neurol** 1990 Apr;5(2):122–6

[Clinico-laboratory and pathomorphologic study of intravascular blood coagulation syndrome in experimental amniotic embolism] Siatkovskiĭ VA, et al. **Arkh Patol** 1989; 51(6):48–55 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Efficacy of antithrombin III supplementation in animal models of fulminant Escherichia coli endotoxemia or bacteremia. Emerson TE Jr, et al. **Am J Med** 1989 Sep 11;87(3B):27S–33S

Clinical experience with antithrombin III concentrate in treatment of congenital and acquired deficiency of antithrombin. The Antithrombin III Study Group. Schwartz RS, et al. **Am J Med** 1989 Sep 11;87(3B):53S–60S (30 ref.)

Heparin therapy in Russell's viper bite victims with impending dic (a controlled trial). Myint-Lwin, et al. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):271–7

[Antithrombin III in heart surgery: preventive clinical use of a specific concentrate] Pula G. **Haematologica** 1990 Mar–Apr;75 Suppl 2:50–3 **(Ita)**

[Correction of disorders of the system of blood aggregation regulation by ionol in the post-resuscitation period] Rezin VA. **Biull Eksp Biol Med** 1989 Nov;108(11):540–2 (Eng. Abstr.) **(Rus)**

[Evaluation of the prophylactic use of dipyridamole in obstetrics] Díaz de León Ponce M, et al. **Ginecol Obstet Mex** 1977 Nov;42(253):309–14 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Cases from A3CR2. Ten-year-old boy with a limp. Sequelae of meningococcal sepsis. Soulen MC, et al. **Invest Radiol** 1990 Mar;25(3):299–301

Case report. Diffuse cortical destruction in both femurs and the left humerus in puerperium. Kasperczyk A, et al. **Skeletal Radiol** 1989;18(7):533–6

THERAPY

The Kasabach-Merritt syndrome: treatment with intermittent pneumatic compression. Aylett SE, et al. **Arch Dis Child** 1990 Jul;65(7):790–1

Fetal survival following coagulopathy at 17 weeks' gestation [letter; comment] Ayromlooi J. **Obstet Gynecol** 1990 Jan; 75(1):145–6 Comment on: Obstet Gynecol 1989 Sep;74(3 Pt 2):468–9.

[The status of blood coagulation preparations within the scope of modern hemotherapy in surgical patients] Kretschmer V. **Beitr Infusionther** 1989;24:134–50 (120 ref.) (Eng. Abstr.) **(Ger)**

[Use of antithrombin III concentrates] Vinazzer H. **Beitr Infusionther** 1989;24:151–8 (Eng. Abstr.) **(Ger)**

[Substantiation, tactics and effectiveness of frozen plasma-enzyme inhibitor therapy in septicemia and infectious-destructive processes] Barkagan ZS, et al. **Gematol Transfuziol** 1989 Oct;34(10):8–12 (Eng. Abstr.) **(Rus)**

VETERINARY

Evaluation of antithrombin-III activity as a coindicator of disseminated intravascular coagulation in cats with induced feline infectious peritonitis virus infection. Boudreaux MK, et al. **Am J Vet Res** 1989 Nov;50(11):1910–3

Trypanosoma vivax: disseminated intravascular coagulation in cattle. Wellde BT, et al. **Ann Trop Med Parasitol** 1989 Aug;83 Suppl 1:177–83

Dyspnea in aging rats due to disseminated intravascular coagulation (DIC). Carthew P, et al. **Vet Pathol** 1989 Nov; 26(6):505–9

[Disseminated intravascular coagulation in eperythrozoonosis of swine] Plank G, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jan 1;103(1):13–8 (Eng. Abstr.) **(Ger)**

[A case of disseminated intravascular coagulation (DIC) in a cow with endometritis and fetal death] Braun U, et al. **Schweiz Arch Tierheilkd** 1990;132(5):239–45 (Eng. Abstr.) **(Ger)**

DISSERTATIONS, ACADEMIC

The pediatric term paper. Robertson WO. **Am J Dis Child** 1967 Jul;114(1):51–4

Index of Graduate Theses and Projects in Allied Health. **J Allied Health** 1989 Fall;18(5):483–549

Lessons from a doctoral thesis. Peiris AN, et al. **MD Comput** 1990 Jan–Feb;7(1):44–51

Role of examination by thesis in professional qualification. Rogers DJ. **Med Lab Sci** 1989 Oct;46(4):289–90

The medical student thesis at Yale. Forrest JN Jr. **Yale J Biol Med** 1989 May–Jun;62(3):291–2

HISTORY

[Analysis of the anesthesiology doctoral theses in Cadiz during the Six-Year Revolution] Márquez Espinós C, et al. **Rev Esp Anestesiol Reanim** 1989 Sep–Oct;36(5):276–81 (Eng. Abstr.) **(Spa)**

[Eugen von Hippel and Arvid Lindau. The men behind angiomatosis of the eye and cerebellum] Ahlström CG. **Lakartidningen** 1989 Sep 27;86(39):3282 **(Swe)**

STANDARDS

[The essential components and considerations in nursing study papers] Lu SY. **Chung Hua Hu Li Tsa Chih** 1989 May;24(5):296–7 **(Chi)**

[Essential components and considerations in nursing study papers] Lu SY. **Chung Hua Hu Li Tsa Chih** 1989 Jun; 24(6):359–60 **(Chi)**

DISSOCIATION see **DISSOCIATIVE DISORDERS**

DISSOCIATIVE DISORDERS

Learning of a complex arithmetic skill in dementia: further evidence for a dissociation between compilation and production. McGlinchey-Berroth R, et al. **Cortex** 1989 Dec;25(4):697–705

DIAGNOSIS

A factor analytic study of two scales measuring dissociation. Fischer DG, et al. **Am J Clin Hypn** 1990 Jan;32(3):201–7

Dissociative symptoms in relation to childhood physical and sexual abuse. Chu JA, et al. **Am J Psychiatry** 1990 Jul; 147(7):887–92

Multiple personality disorder in India [letter] Downs J, et al. **Am J Psychiatry** 1990 Sep;147(9):1260–1

The Structured Clinical Interview for DSM-III-R Dissociative Disorders: preliminary report on a new diagnostic instrument. Steinberg M, et al. **Am J Psychiatry** 1990 Jan;147(1):76–82

Factors that predict scores on the Dissociative Experiences Scale. Norton GR, et al. **J Clin Psychol** 1990 May; 46(3):273–7

The diagnosis of multiple personality disorder based on subtle dissociative signs. Franklin J. **J Nerv Ment Dis** 1990 Jan; 178(1):4–14

DRUG THERAPY

Decreased episodic violence and increased control of dissociation in a carbamazepine-treated case of multiple personality. Fichtner CG, et al. **Biol Psychiatry** 1990 May 1;27(9):1045–52

ETIOLOGY

Hysterical conversion and dissociation arising as a complication of behavioural psychotherapy treatment of obsessive-compulsive neurosis. Bartlett AE, et al. **Br J Med Psychol** 1990 Jun;63 (Pt 2):109–15

HISTORY

Hypnotizability and dissociation. Frankel FH. **Am J Psychiatry** 1990 Jul;147(7):823–9

PHYSIOPATHOLOGY

Somatosensory evoked potentials in patients with sensitive dissociation. Psatta DM, et al. **Neurol Psychiatr (Bucur)** 1989 Oct–Dec;27(4):273–85

PSYCHOLOGY

Relation of clinical variables to dissociative phenomena in eating disorders. Demitrack MA, et al. **Am J Psychiatry** 1990 Sep;147(9):1184–8

Dissociation in alternative healers and traditional therapists: a comparative study. Heber AS, et al. **Am J Psychother** 1989 Oct;43(4):562–74

Emergence of an alternate personality in combat-related posttraumatic stress disorder. McDougle CJ, et al. **Hosp Community Psychiatry** 1990 May;41(5):554–6

Multiple personality, dissociation, and C.G. Jung's complex theory. Noll R. **J Anal Psychol** 1989 Oct;34(4):353–70

Characteristics of patients with multiple personality and dissociative disorders on psychological testing. Armstrong JG, et al. **J Nerv Ment Dis** 1990 Jul;178(7):448–54 (32 ref.)

THERAPY

Dissociative disorders: need for Vancouver unit [letter] Hunter ME. **Can Med Assoc J** 1989 Nov 1;141(9):874–5

DISTAMYCINS see under **PYRROLES**

DISTANCE PERCEPTION

The construction and assessment of mental maps. Gordon AD, et al. **Br J Math Stat Psychol** 1989 Nov;42 (Pt 2):169–82

Proximal spacing to facial affect expressions in schizophrenia. Srivastava P, et al. **Compr Psychiatry** 1990 Mar–Apr; 31(2):119–24

Two operations for "ratios" and "differences" of distances on the mental map. Birnbaum MH, et al. **J Exp Psychol [Hum Percept]** 1989 Nov;15(4):785–96

Accuracy of judging time to arrival: effects of modality, trajectory, and gender. Schiff W, et al. **J Exp Psychol [Hum Percept]** 1990 May;16(2):303–16

Prism adaptation and viewing distance. North RV, et al. **Ophthalmic Physiol Opt** 1990 Jan;10(1):81–5

Is locomotor distance estimation guided by visual imagery? Corlett JT, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1267–72

Inspection time and high-speed ball games. Deary IJ, et al. **Perception** 1989;18(6):789–92

Vertical disparity, egocentric distance and stereoscopic depth

constancy: a new interpretation. Bishop PO. **Proc R Soc Lond [Biol]** 1989 Sep 22;237(1289):445–69 (43 ref.)

[Automated measurement of distance vision based on the DIN strategy] Effert R, et al. **Klin Monatsbl Augenheilkd** 1989 Jul;195(1):39–43 (Eng. Abstr.) **(Ger)**

[Rest position of the eyes and its effect on viewing distance and visual fatigue in computer display work] Heuer H, et al. **Z Exp Angew Psychol** 1989;36(4):538–66 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Blindsight in rodents: the use of a 'high-level' distance cue in gerbils with lesions of primary visual cortex. Carey DP, et al. **Behav Brain Res** 1990 May 28;38(3):283–9

Effect of differences in binocularity on perceived absolute distance. Cruz AA, et al. **Braz J Med Biol Res** 1989; 22(11):1355–9

The effect of accommodative hysteresis on apparent distance. Fisher SK, et al. **Ophthalmic Physiol Opt** 1989 Apr; 9(2):184–90

Proximal vergence and perceived distance. Joubert C, et al. **Optom Vis Sci** 1990 Jan;67(1):29–35

Effect of target proximity on the open-loop accommodative response. Rosenfield M, et al. **Optom Vis Sci** 1990 Feb; 67(2):74–9

Dynamic eye accommodation evoked by apparent distances. Takeda T, et al. **Optom Vis Sci** 1990 Jun;67(6):450–5

Spatial-filter selection in large-scale spatial-interval discrimination. Burbeck CA, et al. **Vision Res** 1990; 30(2):263–72

The role of image size and retinal motion in the computation of absolute distance by the Mongolian gerbil (Meriones unguiculatus). Goodale MA, et al. **Vision Res** 1990; 30(3):399–413

The role of separation and eccentricity in encoding position. Levi DM, et al. **Vision Res** 1990;30(4):557–85

The conditions under which Mach bands are visible. Ross J, et al. **Vision Res** 1989;29(6):699–715

Motion segregation from speed differences: evidence for nonlinear processing. Sekuler AB. **Vision Res** 1990; 30(5):785–95

[Hierarchy and regulation of the adjustment mechanisms of vision at a distance from the point of observation] Ardouin M. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):49–52 (18 ref.) **(Fre)**

DISTEMPER

[Clinical case. A mixed breed female dog about 6 months old] Kraft W. **Tierarztl Prax** 1990 Jun;18(3):235, 309–10 **(Ger)**

CEREBROSPINAL FLUID

Electrophoretic determination of albumin and gamma globulin concentrations in the cerebrospinal fluid of dogs with encephalomyelitis attributable to canine distemper virus infection: 13 cases (1980–1987). Sorjonen DC, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):977–80

COMPLICATIONS

Absence of rabies encephalitis in a raccoon with concurrent rabies and canine distemper infections. Hamir AN, et al. **Cornell Vet** 1990 Apr;80(2):197–201

Fecal incontinence, urinary incontinence, and priapism associated with multifocal distemper encephalomyelitis in a dog. Guilford WG, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):90–2

DIAGNOSIS

Detection of intracellular canine distemper virus antigen in mink inoculated with an attenuated or a virulent strain of canine distemper virus. Blixenkrone-Møller M. **Am J Vet Res** 1989 Sep;50(9):1616–20

Antiserum raised in pigs against canine distemper virus and its utility in diagnostic procedures for morbillivirus infections (canine distemper, phocine distemper, rinderpest). Zaghawa A, et al. **Zentralbl Veterinarmed [B]** 1990 Jul;37(5):353–62

[Distemper as the cause of death in badgers in Austria] Kölbl S, et al. **Tierarztl Prax** 1990 Feb;18(1):81–4 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

A serious outbreak of canine distemper among sled-dogs in northern Greenland. Bohm J, et al. **Arctic Med Res** 1989 Oct;48(4):195–203

Detection of canine distemper viral antigen in formalin-fixed and paraffin-embedded tissue of a fitch (Mustela putorius), using an immunoperoxidase technique. Hewicker M, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):85–8

A morbillivirus causing mass mortality in seals. Osterhaus A. **Vaccine** 1989 Dec;7(6):483–4

Seal distemper in Norway in 1988 and 1989. Krogsrud J, et al. **Vet Rec** 1990 May 5;126(18):460–1

ETIOLOGY

Encephalitis induced by a canine distemper virus in squirrel monkeys. Nagata T, et al. **J Med Primatol** 1990; 19(2):137–49

Vaccine-associated canine distemper infection in a litter of African hunting dogs (Lycaon pictus). Durchfeld B, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):203–12

MICROBIOLOGY

Naturally occurring canine distemper virus encephalitis: distribution and expression of viral polypeptides in nervous tissues. Baumgärtner W, et al. **Acta Neuropathol (Berl)** 1989; 78(5):504–12

PATHOLOGY

Canine distemper virus infection in lesser pandas (Ailurus fulgens). Kotani T, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1263–6

Occurrence of a canine distemper-like disease in aquarium seals. Nunoya T, et al. **Nippon Juigaku Zasshi** 1990 Jun; 52(3):469–77

Pathological findings indicative of distemper in European seals. Bergman A, et al. **Vet Microbiol** 1990 Jun; 23(1–4):331–41

PHYSIOPATHOLOGY

Electromyographic analysis of canine distemper myoclonus. Inada S. **Electromyogr Clin Neurophysiol** 1989 Sep–Oct; 29(6):323–31

PREVENTION & CONTROL

Vaccination of harbour seals (Phoca vitulina) against phocid distemper with two different inactivated canine distemper virus (CDV) vaccines. Visser IK, et al. **Vaccine** 1989 Dec; 7(6):521–6

Vaccines authorized for use in ferrets [letter; comment] Hardy BD. **Vet Rec** 1990 Mar 10;126(10):250 Comment on: Vet Rec 1990 Jan 20;126(3):67.

Distemper vaccination in ferrets [letter] [see comments] Oxenham M. **Vet Rec** 1990 Jan 20;126(3):67 Comment in: Vet Rec 1990 Mar 10;126(10):250.

[Creation of an experimental cell culture vaccine against distemper using cell line 4647] Grachev VP, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):56–7 (Eng. Abstr.) **(Rus)**

DISTEMPER VIRUS, CANINE

Naturally occurring canine distemper virus encephalitis: distribution and expression of viral polypeptides in nervous tissues. Baumgärtner W, et al. **Acta Neuropathol (Berl)** 1989; 78(5):504–12

GENETICS

Interaction of canine distemper virus nucleocapsid variants with 70K heat-shock proteins. Oglesbee M, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1585–90

The role of the 5' nontranslated regions of the fusion protein mRNAs of canine distemper virus and rinderpest virus. Evans SA, et al. **Virology** 1990 Jul;177(1):317–23

GROWTH & DEVELOPMENT

Growth of canine distemper virus in cultured astrocytes: relationship to in vivo persistence and disease. Pearce-Kelling S, et al. **Microb Pathog** 1990 Jan;8(1):71–82

IMMUNOLOGY

Detection of intracellular canine distemper virus antigen in mink inoculated with an attenuated or a virulent strain of canine distemper virus. Blixenkrone-Møller M. **Am J Vet Res** 1989 Sep;50(9):1616–20

Detection of canine distemper viral antigen in formalin-fixed and paraffin-embedded tissue of a fitch (Mustela putorius), using an immunoperoxidase technique. Hewicker M, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):85–8

Vaccination of harbour seals (Phoca vitulina) against phocid distemper with two different inactivated canine distemper virus (CDV) vaccines. Visser IK, et al. **Vaccine** 1989 Dec; 7(6):521–6

Vaccines authorized for use in ferrets [letter; comment] Hardy BD. **Vet Rec** 1990 Mar 10;126(10):250 Comment on: Vet Rec 1990 Jan 20;126(3):67.

Distemper vaccination in ferrets [letter] [see comments] Oxenham M. **Vet Rec** 1990 Jan 20;126(3):67 Comment in: Vet Rec 1990 Mar 10;126(10):250.

Vaccine-associated canine distemper infection in a litter of African hunting dogs (Lycaon pictus). Durchfeld B, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):203–12

Production of antibodies to canine distemper virus in chicken eggs for immunohistochemistry. Schmidt P, et al. **Zentralbl Veterinarmed [B]** 1989 Nov;36(9):661–8

Antiserum raised in pigs against canine distemper virus and its utility in diagnostic procedures for morbillivirus infections (canine distemper, phocine distemper, rinderpest). Zaghawa A, et al. **Zentralbl Veterinarmed [B]** 1990 Jul;37(5):353–62

[Effect of maternally derived antibody levels on antibody responses to canine parvovirus, canine distemper virus and infectious canine hepatitis virus after vaccinations in beagle puppies] Iida H, et al. **Jikken Dobutsu** 1990 Jan;39(1):9–19 (Eng. Abstr.) **(Jpn)**

[Creation of an experimental cell culture vaccine against distemper using cell line 4647] Grachev VP, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):56–7 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Ultrastructural and biochemical findings in brain cell cultures infected with canine distemper virus. Glaus T, et al. **Acta Neuropathol (Berl)** 1990;80(1):59–67

PHYSIOLOGY

[Optimum conditions for the reproduction of distemper virus in cell line 4647] Mironova LL, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):80–1 **(Rus)**

DISTIGMINE see under **PYRIDINIUM COMPOUNDS**

DISULFIDES

Effect of reducing disulfide-containing proteins on electrospray ionization mass spectra. Loo JA, et al. **Anal Chem** 1990 Apr 1;62(7):693–8

Structural and ion-binding properties of an S100b protein mixed disulfide: comparison with the reappraised native S100b protein properties. Mely Y, et al. **Arch Biochem Biophys** 1990 May 15;279(1):174–82

New mixed disulfides of L-cysteine derivatives and of glutathione with diethyldithiocarbamic acid and 2-mercaptoethanesulfonic acid. Rajca A, et al. **Arzneimittelforschung** 1990 Mar;40(3):282–6

Stabilization of disulfide linkage in drug-polymer-immunoglobulin conjugate by microenvironmental control. Yokoyama M, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1234–9

Mouse hepatic glutathione transferase isoenzymes and their differential induction by anticarcinogens. Specificities of butylated hydroxyanisole and bisethylxanthogen as inducers of glutathione transferases in male and female CD-1 mice. Benson AM, et al. **Biochem J** 1989 Aug 1; 261(3):1023–9

The putative disulphide bond in muscarinic receptors. Kurtenbach E, et al. **Biochem Soc Trans** 1990 Jun; 18(3):442–3

Effect of an engineered disulfide bond on the folding of T4 lysozyme at low temperatures. Anderson WD, et al. **Biochemistry** 1990 Apr 3;29(13):3331–7

Beta subunit of (Na+ + K+)-ATPase contains three disulfide bonds. Miller RP, et al. **Biochemistry** 1990 Feb 13;29(6):1524–32

Structure of a thermostable disulfide-bridge mutant of phage T4 lysozyme shows that an engineered cross-link in a flexible region does not increase the rigidity of the folded protein. Pjura PE, et al. **Biochemistry** 1990 Mar 13; 29(10):2592–8

The disulfide bonded ring of iso-rANP, unlike that of rANP, has potent cardiovascular activity. Jennings DB, et al. **Can J Physiol Pharmacol** 1990 Jan;68(1):131–6

Intermolecular disulfide bonding in IgM: effects of replacing cysteine residues in the mu heavy chain. Davis AC, et al. **EMBO J** 1989 Sep;8(9):2519–26

Interaction of antiaggregant molecule ajoene with membranes. An ESR and 1H, 2H, 31P-NMR study. Debouzy JC, et al. **Eur Biophys J** 1989;17(4):211–6

The role of protein-thiol mixed disulfides in cataractogenesis. Lou MF, et al. **Exp Eye Res** 1990 Jun;50(6):819–26

Disulfide cross-linking of urea-insoluble proteins in rabbit lenses treated with hyperbaric oxygen. Padgaonkar V, et al. **Exp Eye Res** 1989 Nov;49(5):887–99

Equilibrium denaturation of human growth hormone and its cysteine-modified forms. Brems DN, et al. **J Biol Chem** 1990 Apr 5;265(10):5504–11

Enhancement of the thermostability of subtilisin E by introduction of a disulfide bond engineered on the basis of structural comparison with a thermophilic serine protease. Takagi H, et al. **J Biol Chem** 1990 Apr 25; 265(12):6874–8

Dependence of formation of small disulfide loops in two-cysteine peptides on the number and types of intervening amino acids. Zhang RM, et al. **J Biol Chem** 1989 Nov 5;264(31):18472–9

On the correlation of S-S and C-S raman bands frequencies and intensities with conformations of disulfide bridges in proteins. Kuptsov AH, et al. **J Biomol Struct Dyn** 1985 Aug;3(1):185–96

Disulfide-linked gamma delta T cell antigen receptors expressed on T cells derived from patients with primary immunodeficiency disorders. Seki H, et al. **J Clin Invest** 1989 Nov;84(5):1679–82

Inhibition of mutant troponin C activity by an intra-domain disulphide bond [see comments] Grabarek Z, et al. **Nature** 1990 May 10;345(6271):132–5 Comment in: Nature 1990 May 10;345(6271):116–7.

Substantial increase of protein stability by multiple disulphide bonds. Matsumura M, et al. **Nature** 1989 Nov 16; 342(6247):291–3

Family of disulphide-linked dimers containing the zeta and eta chains of the T-cell receptor and the gamma chain of Fc receptors. Orloff DG, et al. **Nature** 1990 Sep 13; 347(6289):189–91

A thermoresistant mutant of ribonuclease T1 having three disulfide bonds. Nishikawa S, et al. **Protein Eng** 1990 Apr; 3(5):443–8

Stereochemical modeling of disulfide bridges. Criteria for introduction into proteins by site-directed mutagenesis. Sowdhamini R, et al. **Protein Eng** 1989 Nov;3(2):95-103

[Specific disulfide bonds of the DNA-residual protein complex] Struchkov VA, et al. **Dokl Akad Nauk SSSR** 1989;307(3):755-8 **(Rus)**

ADVERSE EFFECTS

Toxicity of thiols and disulphides: involvement of free-radical species. Munday R. **Free Radic Biol Med** 1989; 7(6):659-73 (188 ref.)

ANALYSIS

Determination of homocysteine, penicillamine, and their symmetrical and mixed disulfides by liquid chromatography with electrochemical detection. Rabenstein DL, et al. **Anal Biochem** 1989 Aug 1; 180(2):259-63

Disulphide bond assignment in human tissue inhibitor of metalloproteinases (TIMP). Williamson RA, et al. **Biochem J** 1990 Jun 1;268(2):267-74

The positions of the disulfide bonds and the glycosylation site in a lectin of the acorn barnacle Megabalanus rosa. Muramoto K, et al. **Biochim Biophys Acta** 1990 May 31; 1039(1):52-60

Disulfide bridges of bovine spleen cathepsin B. Baudyš M, et al. **Biol Chem Hoppe Seyler** 1990 Jun;371(6):485-91

Determination of thiols and disulfides in normal rat tissues and hamster pancreas treated with N-nitrosobis(2-oxopropyl)amine using 4-(aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole and ammonium 7-fluoro-2,1,3-benzoxadiazole-4-sulfonate. Toyo'oka T, et al. **Biomed Chromatogr** 1989 Jul;3(4):166-72

Determination of reduced disulfide groups in monoclonal antibodies. Thakur ML, et al. **Biotechniques** 1990 May; 8(5):512-6

Characterization of a soluble form of human CD4. Peptide analyses confirm the expected amino acid sequence, identify glycosylation sites and demonstrate the presence of three disulfide bonds. Harris RJ, et al. **Eur J Biochem** 1990 Mar 10;188(2):291-300

Arrangement of disulfide bridges and positions of sulfhydryl groups in tetanus toxin. Krieglstein K, et al. **Eur J Biochem** 1990 Feb 22;188(1):39-45

Determination of the disulfide array in sapecin, an antibacterial peptide of Sarcophaga peregrina (flesh fly). Kuzuhara T, et al. **J Biochem (Tokyo)** 1990 Apr; 107(4):514-8

Structure of human lysosomal membrane glycoprotein 1. Assignment of disulfide bonds and visualization of its domain arrangement. Carlsson SR, et al. **J Biol Chem** 1989 Dec 5;264(34):20526-31

Determination of penicillamine, penicillamine disulfide and penicillamine-glutathione mixed disulfide by high-performance liquid chromatography with electrochemical detection. Yamashita GT, et al. **J Chromatogr** 1989 Jul 21;491(2):341-54

Evidence for the presence of disulfide bridges in opioid receptors essential for ligand binding. Possible role in receptor activation. Gioannini TL, et al. **J Mol Recognit** 1989 Jul;2(1):44-8

Cytochemical detection of disulfide and sulfhydryl groups in lamprey aortic microfibrils. Isokawa K. **J Nihon Univ Sch Dent** 1990 Jun;32(2):81-92

Labile disulfide bonds in human placental insulin receptor. Finn FM, et al. **Proc Natl Acad Sci U S A** 1990 Jan; 87(1):419-23

Labile disulfide bonds and free thiol groups in human IgG. V. Association of postoperative mean sigma S' course and tumor recurrence in ovarian cancer. Lahousen M, et al. **Wien Klin Wochenschr** 1989 Dec 22;101(24):858-61

[Disulfide bonds in neurotoxin-III from the sea anenome Radianthus macrodactylus] Zykova TA, et al. **Bioorg Khim** 1989 Jul;15(7):904-7 (Eng. Abstr.) **(Rus)**

[Changes in biological properties of tick-borne encephalitis virus during cleavage of disulfide bonds in protein E] Vorovich MF, et al. **Vopr Virusol** 1989 Nov-Dec; 34(6):698-701 (Eng. Abstr.) **(Rus)**

BLOOD

Pharmacokinetic aspects of tert-butylaminoethyl disulfide, an experimental drug against schistosomiasis in mice. Andrade MH, et al. **Mem Inst Oswaldo Cruz** 1990 Jan-Mar; 84(1):95-102

Sulfhydryl/disulfide-status of blood platelets—a target for pharmacological intervention? Till U, et al. **Prog Clin Biol Res** 1989;301:341-5 (13 ref.)

CHEMICAL SYNTHESIS

Acetyl benzyl disulfide. John E, et al. **Acta Crystallogr C** 1988 Feb 15;44 (Pt 2):390-1

ISOLATION & PURIFICATION

Identification of disulfide-containing peptides in endocrine tissue extracts by HPLC-electrochemical detection and mass spectrometry. Sun YP, et al. **J Protein Chem** 1990 Apr;9(2):151-7

METABOLISM

Molecular and cellular aspects of thiol-disulfide exchange. Gilbert HF. **Adv Enzymol Relat Areas Mol Biol** 1990; 63:69-172 (390 ref.)

Cysteine-induced changes of low molecular sulfhydryl/disulfide ratio in rat lymphoid cells. Krzystyniak K, et al. **Arch Immunol Ther Exp (Warsz)** 1989; 37(1-2):37-47

Influence of substances affecting cell sulfhydryl/disulfide status on adherence of human monocytes. Krause S, et al. **Arzneimittelforschung** 1990 Jun;40(6):689-92

The disulphide-bond content and rheological properties of intestinal mucins from normal subjects and patients with cystic fibrosis. Mantle M, et al. **Biochem J** 1990 Mar 1; 266(2):597-604

Re-formation of disulphide bonds in reduced antithrombin III. Sun XJ, et al. **Biochem J** 1990 Aug 1;269(3):665-9

Dimethyldisulfide formation during trichloromethyl radical attack on methionine. Castro GD, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4145-7

Binding of aminoalkylphosphorothioate radioprotective drugs to rodent tissue proteins. Livesey JC, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1807-12

Role of extracellular disulfide-bonded cysteines in the ligand binding function of the beta 2-adrenergic receptor. Dohlman HG, et al. **Biochemistry** 1990 Mar 6;29(9):2335-42

Catalysis of thiol/disulfide exchange: single-turnover reduction of protein disulfide-isomerase by glutathione and catalysis of peptide disulfide reduction. Gilbert HF. **Biochemistry** 1989 Sep 5;28(18):7298-305

Disulfide formation within the regulatory light chain of skeletal muscle myosin. Huber PJ, et al. **Biochemistry** 1989 Nov 14;28(23):9116-23

Formation of an intramolecular cystine disulfide during the reaction of 8-azidoguanosine 5'-triphosphate with cytosolic phosphoenolpyruvate carboxykinase (GTP) causes inactivation without photolabeling. Lewis CT, et al. **Biochemistry** 1989 Nov 28;28(24):9248-55

Disulfide bond reduction in fibrinogen: calcium protection and effect on clottability. Procyk R, et al. **Biochemistry** 1990 Feb 13;29(6):1501-7

Sulfhydryl groups in glycolipid transfer protein: formation of an intramolecular disulfide bond and oligomers by Cu2+-catalyzed oxidation. Abe A, et al. **Biochim Biophys Acta** 1989 Oct 2;985(1):38-44

Formation of an intramolecular disulfide bond of glycolipid transfer protein. Abe A, et al. **Biochim Biophys Acta** 1989 Oct 2;985(1):45-50

The C gamma 1-encoded disulphide-linked and the C gamma 2-encoded nondisulphide-linked forms of the gamma/delta heterodimer use different gamma and delta variable regions. Fagioli M, et al. **Blood** 1990 Jul 15;76(2):279-84

Effect of opacification and pigmentation on human lens protein thiol/disulfide and solubility. Lou MF, et al. **Curr Eye Res** 1989 Sep;8(9):883-90

Intermolecular disulfide bonds are not required for the expression of the dimeric state and functional activity of the transferrin receptor. Alvarez E, et al. **EMBO J** 1989 Aug;8(8):2231-40

Beta-endorphin chimeric peptides: transport through the blood-brain barrier in vivo and cleavage of disulfide linkage by brain. Pardridge WM, et al. **Endocrinology** 1990 Feb;126(2):977-84

Role of disulfide bond formation in the folding of human chorionic gonadotropin beta subunit into an alpha beta dimer assembly-competent form. Beebe JS, et al. **J Biol Chem** 1990 Jan 5;265(1):312-7

Evidence that platelet glycoprotein IIIa has a large disulfide-bonded loop that is susceptible to proteolytic cleavage. Beer J, et al. **J Biol Chem** 1989 Oct 15; 264(29):17564-73

Inactivation of (Na+,K+)-ATPase by beta-mercaptoethanol. Differential sensitivity to reduction of the three beta subunit disulfide bonds. Kirley TL. **J Biol Chem** 1990 Mar 15;265(8):4227-32

Heavy chain binding protein recognizes incompletely disulfide-bonded forms of vesicular stomatitis virus G protein. Machamer CE, et al. **J Biol Chem** 1990 Apr 25; 265(12):6879-83

Identification of disulfide-linked transforming growth factor-beta 1-specific binding proteins in rat glomeruli. MacKay K, et al. **J Biol Chem** 1990 Jun 5;265(16):9351-6

Elimination of disulfide bonds affects assembly and secretion of the human chorionic gonadotropin beta subunit. Suganuma N, et al. **J Biol Chem** 1989 Nov 15; 264(32):19302-7

Evidence for difference in the roles of two cysteine residues involved in disulfide bond formation in the folding of human lysozyme. Taniyama Y, et al. **J Biol Chem** 1990 May 5;265(13):7570-5

Distribution of protein disulfide isomerase in rat epiphyseal chondrocytes. Akagi S, et al. **J Histochem Cytochem** 1989 Dec;37(12):1835-44

Disulphide bonds and the 118,000 Mr glycoprotein of human intestinal mucin. Mantle M, et al. **Symp Soc Exp Biol** 1989; 43:279-87

PHARMACOLOGY

Essential thiol and disulphide groups in the histamine H1-receptor signal transfer of guinea-pig parenchymal lung strips. Leurs R, et al. **Agents Actions** 1990 Apr; 30(1-2):169-73

Inhibition of growth of the dimorphic fungus Paracoccidioides brasiliensis by ajoene. San-Blas G, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1641-4

Structural studies on the inactivation of gamma-glutamylcysteine synthetase by the disulphide analogues of radioprotective cysteamine derivatives. Effects of aminoalkyl and hydroxyalkyl chain length and beta beta-bis-dimethylation. Schor NF, et al. **Biochem J** 1990 Apr 15;267(2):291-6

Ajoene prevents fat digestion by human gastric lipase in vitro. Gargouri Y, et al. **Biochim Biophys Acta** 1989 Nov 6; 1006(1):137-9

Studies of the action of symmetrical and mixed disulphide thiol-modifying reagents on the esterase activity of cytoplasmic aldehyde dehydrogenase. Loomes KM, et al. **Biochim Biophys Acta** 1989 Sep 14;998(1):1-6

Dihydropyridine binding to the L-type Ca2+ channel in rabbit heart sarcolemma and skeletal muscle transverse-tubules: role of disulfide, sulfhydryl and phosphate groups. Murphy BJ, et al. **Biochim Biophys Acta** 1990 May 2;1052(2):333-9

Enzyme regulation by biological disulfides. Ondarza RN. **Biosci Rep** 1989 Oct;9(5):593-604 (59 ref.)

Calcium release from pituitary secretory granules: modulation by thiols, disulfides, and dihydropyridine calcium channel blockers. Lorenson MY, et al. **Endocrinology** 1990 May;126(5):2671-8

Glutathione-protein mixed disulfide decreases the affinity of rat liver fatty acid-binding protein for unsaturated fatty acid. Hitomi M, et al. **Eur J Biochem** 1990 Feb 14; 187(3):713-9

Reactive disulfides trigger Ca2+ release from sarcoplasmic reticulum via an oxidation reaction. Zaidi NF, et al. **J Biol Chem** 1989 Dec 25;264(36):21725-36

Disulfide linkage of biotin identifies a 106-kDa Ca2+ release channel in sarcoplasmic reticulum. Zaidi NF, et al. **J Biol Chem** 1989 Dec 25;264(36):21737-47

[Kinetics of inhibition of aldehyde dehydrogenase isoenzymes of rat liver by fluorine-containing disulfides] Konoplitska OL, et al. **Ukr Biokhim Zh** 1989 Jul-Aug;61(4):54-9 (Eng. Abstr.) **(Ukr)**

THERAPEUTIC USE

Chemoprevention of 1,2-dimethylhydrazine-induced colon cancer in mice by naturally occurring organosulfur compounds. Sumiyoshi H, et al. **Cancer Res** 1990 Aug 15; 50(16):5084-7

TOXICITY

The toxicity of disulphides to isolated hepatocytes and mitochondria. Jatoe SD, et al. **Drug Metabol Drug Interact** 1988;6(3-4):395-412

DISULFIRAM

ADMINISTRATION & DOSAGE

Antabuse implants: a useful surgical procedure. Welch M, et al. **Br J Surg** 1990 Jul;77(7):821

[Disulfiram implants. Lack of pharmacological and clinical effects] Johnsen J, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1229-30 (10 ref.) (Eng. Abstr.) **(Nor)**

ADVERSE EFFECTS

Disulfiram neuropathy: a review (1971-1988) and report of a case. Frisoni GB, et al. **Alcohol Alcohol** 1989;24(5):429-37 (38 ref.)

Disulfiram-induced hepatitis: case report and review of the literature. Mason NA. **DICP** 1989 Nov;23(11):872-5 (20 ref.)

Lack of interaction between disulfiram and alprazolam in alcoholic patients. Diquet B, et al. **Eur J Clin Pharmacol** 1990;38(2):157-60

Disulfiram hepatitis. Morris SJ, et al. **Gastroenterology** 1978 Jul;75(1):100-2

Disulfiram in the treatment of alcoholic patients with schizophrenia. Kingsbury SJ, et al. **Hosp Community Psychiatry** 1990 Feb;41(2):133-4

Disulfiram-induced fulminating hepatitis and monitoring guidelines [letter; comment] Phillips M. **J Clin Psychiatry** 1990 Apr;51(4):168 Comment on: J Clin Psychiatry 1988 Nov;49(11):430-4.

Peripheral nerve functions in chronic alcoholic patients on disulfiram: a six month follow up. Palliyath SK, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):227-30

Dangers of antabuse therapy. Yapa RS. **Practitioner** 1989 Jan;233(1461):13-4

Disulfiram-induced hepatitis. Kahn S, et al. **South Med J** 1990 Jul;83(7):833-6 (14 ref.)

Case report: negligent treatment with drugs. Laufenburg HF. **Wis Med J** 1990 Apr;89(4):166-8, 170

[Fatal hepatitis caused by disulfiram] Knudsen TE, et al. **Ugeskr Laeger** 1990 May 14;152(20):1457-8 (Eng. Abstr.) **(Dan)**

[Allergic reactions to disulfiram implants] Minet A, et al. **Ann Dermatol Venereol** 1989;116(8):543-5 **(Fre)**

[Fulminant hepatitis induced by disulfiram in a patient with alcoholic cirrhosis. Survival after liver transplantation] Vanjak D, et al. **Gastroenterol Clin Biol** 1989 Dec; 13(12):1075-8 (Eng. Abstr.) **(Fre)**

[Disulfiram and acute liver damage] Kordahl H, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3213 (Eng. Abstr.) **(Nor)**

METABOLISM

Pharmacological effects of diethylthiocarbamic acid methyl ester, the active metabolite of disulfiram? Petersen EN. **Eur J Pharmacol** 1989 Aug 3;166(3):419–25

Oxidation of diethyldithiocarbamate to disulfiram by liver microsomal cytochrome P-450–containing monooxygenase system. Masuda Y, et al. **Res Commun Chem Pathol Pharmacol** 1989 Oct;66(1):57–67

PHARMACOKINETICS

Distribution of disulfiram and its chief metabolites over erythrocyte cell membranes and inactivation of erythrocyte aldehyde dehydrogenase activity. Johansson B. **Pharmacol Toxicol** 1990 Feb;66(2):104–8

[Pharmacokinetic study of subcutaneous disulfiram implants] Cid E, et al. **Rev Med Chil** 1988 Nov;116(11):1119–23 (Eng. Abstr.) (Spa)

PHARMACOLOGY

Ferrous sulfate combined with ascorbic acid does not significantly reduce acetaldehyde accumulation in the blood of alcoholized rats treated with disulfiram or betalactam antibiotics. Freundt KJ, et al. **Alcohol** 1990 Jul–Aug;7(4):295–8

Use of leukocyte aldehyde dehydrogenase activity to monitor inhibitory effect of disulfiram treatment. Helander A, et al. **Alcoholism (N Y)** 1990 Feb;14(1):48–52

Human brain glyceraldehyde-3-phosphate dehydrogenase, succinic semialdehyde dehydrogenase and aldehyde dehydrogenase isozymes: substrate specificity and sensitivity to disulfiram. Ryzlak MT, et al. **Alcoholism (N Y)** 1989 Dec;13(6):755–61

Potentiation of nitrogen mustard cytotoxicity by disulfiram, diethyldithiocarbamic acid, and diethylamine in mice. Valeriote F, et al. **Cancer Res** 1989 Dec 1;49(23):6658–61

Lipid peroxidation–dependent and –independent protein thiol modifications in isolated rat hepatocytes: differential effects of vitamin E and disulfiram. Dogterom P, et al. **Chem Biol Interact** 1989;71(2–3):291–306

The inhibition of lipid peroxidation by disulfiram prevents the killing of cultured hepatocytes by allyl alcohol, tert-butyl hydroperoxide, hydrogen peroxide and diethyl maleate. Kyle ME, et al. **Chem Biol Interact** 1989; 72(3):269–75

Inhibition of erythrocyte aldehyde dehydrogenase activity and elimination kinetics of diethyldithiocarbamic acid methyl ester and its monothio analogue after administration of single and repeated doses of disulfiram to man. Johansson B, et al. **Eur J Clin Pharmacol** 1989;37(2):133–8

Diethyldithiocarbamate and disulfiram inhibit MPP+ and dopamine uptake by striatal synaptosomes. Di Monte D, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):23–9

Lack of immunomodulating effect of disulfiram on HIV positive patients. Hørding M, et al. **Int J Immunopharmacol** 1990;12(2):145–7

Cytotoxicity of diethyldithiocarbamate in human versus rodent cell lines. Cohen JD, et al. **Invest New Drugs** 1990 May;8(2):137–42

Disulfiram administration affects substance P-like immunoreactive and monoaminergic neural systems in rodent brain. Marchand JE, et al. **J Biol Chem** 1990 Jan 5;265(1):264–73

Modulation of 7,12-dimethylbenz[a]anthracene-induced transmammary carcinogenesis by disulfiram and butylated hydroxyanisole in mice. Rao AR, et al. **Jpn J Cancer Res** 1989 Dec;80(12):1171–5

A double-blind placebo controlled study of healthy volunteers given a subcutaneous disulfiram implantation. Johnsen J, et al. **Pharmacol Toxicol** 1990 Mar;66(3):227–30

Effects of diethyldithiocarbamate and tetraethylthiuram disulfide on zinc metabolism in mice. Sørensen JA, et al. **Pharmacol Toxicol** 1989 Sep;65(3):209–13

Modification of cyclophosphamide-induced urotoxicity by buthionine sulfoximine and disulfiram in mice. Ishikawa M, et al. **Res Commun Chem Pathol Pharmacol** 1989 Aug; 65(2):265–8

[Disulfiram and calcium carbimide. Mode of action, adverse effects and clinical use] Johnsen J, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1224–8 (14 ref.) (Eng. Abstr.) (Nor)

[The effect of disulfiram on lipid metabolism in the rat liver] Selevich MI, et al. **Farmakol Toksikol** 1989 Nov–Dec; 52(6):69–72 (Eng. Abstr.) (Rus)

POISONING

[High-dose adrenaline in the treatment of severe hypotensive crisis caused by a disulfiram–ethanol reaction] Møller LM, et al. **Ugeskr Laeger** 1990 Aug 20;152(34):2437–8 (Eng. Abstr.) (Dan)

THERAPEUTIC USE

Alcoholics' attitudes toward and experiences with disulfiram. Litkow B, et al. **Am J Drug Alcohol Abuse** 1990; 16(1–2):147–60

Disulfiram treatment of alcoholism. Wright C, et al. **Am J Med** 1990 Jun;88(6):647–55 (103 ref.)

Trace element status in alcoholism before and during disulfiram treatment. Grandjean P, et al. **Ann Clin Lab Sci** 1990 Jan–Feb;20(1):28–35

Disulfiram treatment of alcoholism. American College of Physicians. **Ann Intern Med** 1989 Dec 1;111(11):943–5 (49 ref.)

Disulfiram treatment for alcoholism. Heather N. **BMJ** 1989 Aug 19;299(6697):471–2 (23 ref.)

Giving ethanol to alcoholics in a research setting: its effect on compliance with disulfiram treatment. Kranzler HR, et al. **Br J Addict** 1990 Jan;85(1):119–23

[Ambulatory, disulfiram-(Antabuse)-assisted management of the alcoholic patient] Wicht F, et al. **Ther Umsch** 1990 May; 47(5):364–9 (14 ref.) (Eng. Abstr.) (Ger)

[Experience in treating alcoholism in pulmonary tuberculosis patients] Gerasimov EA. **Probl Tuberk** 1989;(12):59–61 (Rus)

[The characteristics of the urinary sediment and proteinuria in chronic alcoholics before and during treatment with teturam] Stanevskaia TIu, et al. **Urol Nefrol (Mosk)** 1990 Mar–Apr;(2):20–3 (Eng. Abstr.) (Rus)

TOXICITY

Ethylene dichloride: the influence of disulfiram or ethanol on oncogenicity, metabolism, and DNA covalent binding in rats. Cheever KL, et al. **Fundam Appl Toxicol** 1990 Feb; 14(2):243–61

Loss of viability after disulfiram treatment without preceding depletion of intracellular GSH. Ohno Y, et al. **J Toxicol Sci** 1990 May;15(2):63–73

[Structural changes in the rat cerebral cortex induced by alcohol in combination with aldehyde dehydrogenase inhibitors] Zimatkin SM. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):13–20 (Eng. Abstr.) (Rus)

DISULFOTON see under **INSECTICIDES, ORGANOTHIOPHOSPHATE**

DITAZOL see under **OXAZOLES**

DITERPENES

Structure of columbin, a diterpenoid furanolactone from Tinospora cordifolia Miers. Swaminathan K, et al. **Acta Crystallogr C** 1989 Feb 15;45 (Pt 2):300–3

Two toxic kaurene glycosides from the burrs of Xanthium pungens. MacLeod JK, et al. **J Nat Prod** 1990 Mar–Apr; 53(2):451–5

ADMINISTRATION & DOSAGE

[Yuanhuacin film for menstruation induction and termination of early pregnancy: analysis of 382] Li PQ. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Jul;24(4):231–3, 253 (Eng. Abstr.) (Chi)

ANALYSIS

Antiviral agents of plant origin. III. Scopadulin, a novel tetracyclic diterpene from Scoparia dulcis L. Hayashi T, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):945–7

Conformational study of the cembranoid sarcophytol A, a potent anti-tumor-promoter. Kobayashi M, et al. **Chem Pharm Bull (Tokyo)** 1990 Mar;38(3):815–7

G protein gamma subunits contain a 20-carbon isoprenoid. Mumby SM, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(15):5873–7

Brain G protein gamma subunits contain an all-trans-geranylgeranylcysteine methyl ester at their carboxyl termini. Yamane HK, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5868–72

CHEMICAL SYNTHESIS

[Synthesis of 11-aminomethyl-2,6-dimethyl-3,9-diisopropyl-tricyclo [5.3.2.0(1.5)] dodeca-5,9-dien-8-ol] Guo YT, et al. **Yao Hsueh Hsueh Pao** 1989;24(9):707–10 (Eng. Abstr.) (Chi)

IMMUNOLOGY

Pure abietic acid is not allergenic [letter; comment] Karlberg AT. **Contact Dermatitis** 1989 Oct;21(4):282–5 Comment on: Contact Dermatitis 1989 Jan;20(1):41–50.

ISOLATION & PURIFICATION

Structure of tinosporide, a diterpenoid furanolactone from Tinospora cordifolia Miers. Swaminathan K, et al. **Acta Crystallogr C** 1989 Jan 15;45 (Pt 1):134–6

Isolation of a new tremorgenic indoloditerpene, 1'-O-acetylpaxilline, from Emericella striata and distribution of paxilline in Emericella spp. Nozawa K, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1387–9

New diterpenoid antibiotics, spirocardins A and B. Nakajima M, et al. **J Antibiot (Tokyo)** 1989 Dec;42(12):1741–8

High field 1H- and 13C-nmr assignments of grayanotoxins I, IV, and XIV isolated from Kalmia angustifolia. Burke JW, et al. **J Nat Prod** 1990 Jan–Feb;53(1):131–7

An antitumor principle from Suillus granulatus. Tringali C, et al. **J Nat Prod** 1989 Jul–Aug;52(4):844–5

[Chemical constituents of Isodon parvifolia (Batalin) Hara] Guo Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb; 15(2):101–3, 127 (Eng. Abstr.) (Chi)

[Studies on the taxane diterpenes of the heartwood from Taxus mairei] Min ZD, et al. **Yao Hsueh Hsueh Pao** 1989; 24(9):673–7 (Eng. Abstr.) (Chi)

[Coetsoidin A, a new diterpenoid from Rabdosia coetsoides C. Y. Wu] Wang XF, et al. **Yao Hsueh Hsueh Pao** 1989; 24(7):522–4 (Eng. Abstr.) (Chi)

METABOLISM

Specific binding of resiniferatoxin, an ultrapotent capsaicin analog, by dorsal root ganglion membranes. Szallasi A, et al. **Brain Res** 1990 Jul 30;524(1):106–11

Bioavailability of benzo(a)pyrene and dehydroabietic acid from a few lake waters containing varying dissolved organic carbon concentrations to Daphnia magna. Oikari A, et al. **Bull Environ Contam Toxicol** 1990 Jul;45(1):54–61

Toxicokinetics of tumor promoters of mouse skin. I. Metabolism of phorbol and ingenol esters by mouse liver microsomes. Müller G, et al. **Carcinogenesis** 1990 Jul; 11(7):1127–32

Presence of specific binding sites for [3H]sarcophytol-A in cultured human skin fibroblasts. Nakagane T, et al. **Experientia** 1990 May 15;46(5):490–2

Metabolites of (+)-dehydroabietic acid in rabbits. Matsumoto T, et al. **J Pharm Sci** 1990 Jun;79(6):540–7

Identification of geranylgeranyl-modified proteins in HeLa cells. Farnsworth CC, et al. **Science** 1990 Jan 19; 247(4940):320–2

Prenylated proteins: the structure of the isoprenoid group. Rilling HC, et al. **Science** 1990 Jan 19;247(4940):318–20

The mechanism of aphidicolin bioinactivation by rat liver in vitro systems. Edelson RE, et al. **Xenobiotica** 1990 Mar; 20(3):273–87

PHARMACOLOGY

Effect of capsaicin, resiniferatoxin and piperine on ethanol-induced gastric ulcer of the rat. Szolcsányi J. **Acta Physiol Hung** 1990;75 Suppl:267–8

A method for the synchronization of cultured cells with aphidicolin: application to the large-scale synchronization of L1210 cells and the study of the cell cycle regulation of thymidylate synthase and dihydrofolate reductase. Matherly LH, et al. **Anal Biochem** 1989 Nov 1; 182(2):338–45

Effects of the new anti-ulcer agent 12-sulfodehydroabietic acid monosodium salt on duodenal alkaline secretion in rats. Onoda Y, et al. **Arzneimittelforschung** 1990 May; 40(5):576–8

Resiniferatoxin, a potent capsaicin-like stimulator of peripheral nociceptors in the neonatal rat tail in vitro. Dray A, et al. **Br J Pharmacol** 1990 Feb;99(2):323–6

Duration of desensitization and ultrastructural changes in dorsal root ganglia in rats treated with resiniferatoxin, an ultrapotent capsaicin analog. Szallasi A, et al. **Brain Res** 1989 Nov 27;503(1):68–72

Antimicrobial activity of kaurenoic acid derivatives substituted on carbon-15. Davino SC, et al. **Braz J Med Biol Res** 1989;22(9):1127–9

The effect of DNA polymerase inhibitors on the cytotoxicity of cisplatin in human ovarian carcinoma cells. Katz EJ, et al. **Cancer Commun** 1990;2(4):159–64

Non-promoting diterpene esters can induce Epstein-Barr virus early antigen expression in the Raji cell line. Evans AT, et al. **Cancer Lett** 1990 Jan;49(1):25–9

Neurogenic component of phorbol ester-induced mouse skin inflammation. Szallasi A, et al. **Cancer Res** 1989 Nov 1; 49(21):6052–7

Aphidicolin-sensitive DNA repair synthesis in human fibroblasts damaged with bleomycin is distinct from UV-induced repair. DiGiuseppe JA, et al. **Carcinogenesis** 1990 Jun;11(6):1021–6

Effect of resiniferatoxin pretreatment on the inflammatory response to phorbol-12-myristate-13-acetate in mouse strains with different susceptibilities to phorbol ester tumor promotion. Szallasi A, et al. **Carcinogenesis** 1990 Apr; 11(4):583–7

Antiviral agents of plant origin. II. Antiviral activity of scopadulcic acid B derivatives. Hayashi T, et al. **Chem Pharm Bull (Tokyo)** 1990 Jan;38(1):239–42

Expression and distribution of aphidicolin-induced fragile sites in chronic myeloid leukaemia, acute lymphocytic leukaemia and acute myeloid leukaemia. Stopera SA, et al. **Cytobios** 1989;60(241):103–9

Stage-specific gene expression in early chick embryo. Zagris N, et al. **Dev Genet** 1989;10(4):333–8

A reversible arrest point in the late G1 phase of the mammalian cell cycle. Lalande M. **Exp Cell Res** 1990 Feb; 186(2):332–9

TPA and resiniferatoxin-mediated activation of NADPH-oxidase. A possible role for Rx-kinase augmentation of PKC. Evans AT, et al. **FEBS Lett** 1990 Jul 16;267(2):253–6

Evidence for the mechanism of the inhibitory action of jatrophone in the isolated rat uterine muscle. Calixto JB, et al. **Gen Pharmacol** 1990;21(1):117–22

Telomere association of chromosomes induced by aphidicolin in a normal individual. Fuster C, et al. **Hum Genet** 1990 Apr;84(5):424–6

Cell type-dependent difference in the distribution and frequency of aphidicolin-induced fragile sites: T and B lymphocytes and bone marrow cells. Murano I, et al. **Hum Genet** 1989 Dec;84(1):71–4

Platelet activation by tetraprenol via stimulation of phospholipase A2 action. Nakano T, et al. **J Biochem (Tokyo)** 1989 Nov;106(5):887–93

12-epi-teuscordonin and other neoclerodanes from Teucrium

bicolor. Labbe C, et al. **J Nat Prod** 1989 Jul–Aug; 52(4):871–4

In vitro mutagenesis of the herpes simplex virus type 1 DNA polymerase gene results in altered drug sensitivity of the enzyme. Matthews JT, et al. **J Virol** 1989 Nov; 63(11):4913–8

Effects of 12–sulfodehydroabietic acid monosodium salt (TA–2711), a new anti–ulcer agent, on gastric mucosal lesions induced by necrotizing agents and gastric mucosal defensive factors in rats. Onoda Y, et al. **Jpn J Pharmacol** 1990 Apr;52(4):631–8

Effects of 12–sulfodehydroabietic acid monosodium salt (TA–2711), a new anti–ulcer agent, on gastric secretion and experimental ulcers in rats. Onoda Y, et al. **Jpn J Pharmacol** 1989 Sep;51(1):65–73

Measures of anxiety, retention and stress in the rat following treatment with the diterpene sclareol glycol. Georgieva J. **Methods Find Exp Clin Pharmacol** 1990 Jan–Feb; 12(1):5–10

DNA repair induced by various mutagens in rat hepatocyte primary cultures measured in the presence of hydroxyurea, guanazole or aphidicolin. Suter W, et al. **Mutat Res** 1990 Aug;231(2):251–64

Effect of inhibition of DNA synthesis on recovery of X–irradiated L5178Y–S cells. I. Aphidicolin. Kapiszewska M, et al. **Neoplasma** 1989;36(5):557–64

Aphidicolin resistance in herpes simplex virus type I reveals features of the DNA polymerase dNTP binding site. Hall JD, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9231–44

16 alpha–hydroxy–(–)–kauranoic acid: a selectively cytotoxic diterpene from Annona bullata. Hui YH, et al. **Pharm Res** 1990 Apr;7(4):376–8

Diterpene sclareol glycol inhibits clonidine–induced aggressive responses in mice. Georgieva JV. **Pharmacol Biochem Behav** 1989 Nov;34(3):503–5

A novel antibacterial diterpene from Premna schimperi. Habtemariam S, et al. **Planta Med** 1990 Apr;56(2):187–9

A new platelet aggregation inhibitor from Salvia miltiorrhiza. Wang N, et al. **Planta Med** 1989 Aug;55(4):390–1

On the relationship between adenosine diphosphoribosyl transferase and S phase DNA synthesis in cultured mammalian cells. Yu YN, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(3):157–61

Characterization of eukaryotic DNA polymerases: aphidicolin resistant mutants of Neurospora with altered DNA polymerase. Mishra NC, et al. **Prog Clin Biol Res** 1990;344:295–313

Inhibitors of repair of potentially lethal damage and DNA polymerases also influence the recovery of potentially neoplastic transforming damage in C3H10T–1/2 cells. Raaphorst GP, et al. **Radiat Res** 1990 Jul;123(1):49–54

On the DNA polymerase–a mutant: immunofluorescence assay of UV–induced thymidine dimers in Aphr–4–2 cells. Liu PK, et al. **Somat Cell Mol Genet** 1990 Jan;16(1):49–57

Inhibition of DNA excision by DNA polymerase–alpha inhibitor in UV–damaged HeLa cells. Joe CO, et al. **Toxicol Lett** 1990 Aug;52(3):253–9

Forskolin: a specific stimulator of adenylyl cyclase or a diterpene with multiple sites of action? Laurenza A, et al. **Trends Pharmacol Sci** 1989 Nov;10(11):442–7 (39 ref.)

Aphidicolin–resistant DNA polymerase of bacteriophage phi 29 APHr71 mutant is hypersensitive to phosphonoacetic acid and butylphenyldeoxyguanosine 5'–triphosphate. Matsumoto K, et al. **Virology** 1990 Sep;178(1):337–9

[Study of the effect of sclareol glycol diterpene on the 3',5'–AMP level] Georgieva Zh, et al. **Eksp Med Morfol** 1989;28(3):1–7 (Eng. Abstr.) **(Bul)**

[Study of the effect of sclareol glycol diterpene on the release of adenohypophysial hormones prolactin, somatotropin and adenocorticotrophic hormone] Georgieva Zh. **Eksp Med Morfol** 1989;28(3):7–14 (Eng. Abstr.) **(Bul)**

[Effects of triptolide on T lymphocyte functions in mice] Pu LX, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan; 11(1):76–9 (Eng. Abstr.) **(Chi)**

[Effect of triptolide on cytokinetics of HeLa cells] Xu JH, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):550–3 (Eng. Abstr.) **(Chi)**

[Inhibition of ova fertilizability by pseudolaric acid B in hamster] Zhang YL, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):60–2 (Eng. Abstr.) **(Chi)**

[Biological actions of Diterpenes] Buchbauer G, et al. **Pharm Unserer Zeit** 1990 Jan;19(1):28–37 (50 ref.) **(Ger)**

THERAPEUTIC USE

New antitumor promoters: (–)–epigallocatechin gallate and sarcophytols A and B. Fujiki H, et al. **Basic Life Sci** 1990; 52:205–12

[Comparative clinical study of rheumatoid arthritis treated by triptolide and an ethyl acetate extract of Tripterygium wilfordii] Su D, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):144–6, 131 (Eng. Abstr.) **(Chi)**

TOXICITY

Location of FRAXD in Xq27.2. Fragile sites on the X chromosome. Hecht F, et al. **Cancer Genet Cytogenet** 1990 Oct 1;49(1):137–8

[Mutagenicity of steviol: an analytical approach using the Southern blotting system] Matsui M, et al. **Eisei Shikenjo Hokoku** 1989;(107):83–7 (Eng. Abstr.) **(Jpn)**

[Effects of grayanotoxin III on liver function and renal function in rats] Nishikawa Y, et al. **Yakugaku Zasshi** 1989 May;109(5):340–3 (Eng. Abstr.) **(Jpn)**

DITHIOERYTHRITOL see under **DITHIOTHREITOL**

DITHIONITE see under **SULFITES**

DITHIONITROBENZOIC ACID see under **NITROBENZOATES**

DITHIOTHREITOL

Artifacts following gold staining of Western–blotted membranes. Park KB, et al. **Anal Biochem** 1989 Jul; 180(1):55–8

Static quenching of tryptophan fluorescence by oxidized dithiothreitol. Sanyal G, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):772–81

DIAGNOSTIC USE

Discrimination of angiotensin II receptor subtypes by dithiothreitol. Chiu AT, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):117–8

Dithiothreitol treatment of crossmatch sera in highly immunized transplant recipients. Rudy T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):800–2

The importance of serum dithiothreitol treatment in crossmatching selection of presensitized kidney transplant recipients. Roy R, et al. **Transplantation** 1990 Sep; 50(3):532–4

PHARMACOLOGY

Dithiothreitol restores contractile function to oxidant–injured cardiac muscle. Eley DW, et al. **Am J Physiol** 1989 Oct; 257(4 Pt 2):H1321–5

Neurotensin receptors on circular smooth muscle of canine small intestine: role of disulfide bridges. Ahmad S, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):422–8

Sulfhydryl reducing agents promote neutrophil adherence without increasing surface expression of CD11b/CD18 (Mac–1, Mo1). Schwartz BR, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):51–7

Thiol–dependent metallo–endopeptidase characteristics of Pz–peptidase in rat and rabbit. Tisljar U, et al. **Biochem J** 1990 Apr 15;267(2):531–3

The dithiothreitol–stimulated dissociation of the chloroplast coupling factor 1 epsilon–subunit is reversible. Duhe RJ, et al. **Biochim Biophys Acta** 1990 May 15;1017(1):70–8

Bovine olfactory cilia preparation: thiol–modulated odorant–sensitive adenylyl cyclase. Lazard D, et al. **Biochim Biophys Acta** 1989 Sep 4;1013(1):68–72

Glycine synergistically potentiates the enhancement of LTP induced by a sulfhydryl reducing agent. Tauck DL, et al. **Brain Res** 1990 Jun 11;519(1–2):129–32

Effects of GTP analogs and dithiothreitol on the binding properties of the vascular vasoactive intestinal peptide receptor. Huang M, et al. **Can J Physiol Pharmacol** 1989 Aug;67(8):851–6

Protection against cadmium toxicity and enzyme inhibition by dithiothreitol. Ahammadsahib KI, et al. **Cell Biochem Funct** 1989 Jul;7(3):185–92

Dithiothreitol–induced triphasic response of dog coronary arteries [published erratum appears in Eur J Pharmacol 1989 Oct 10;169(2–3):329] Fujioka H, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):13–22

Superoxide dismutase and media dependence of far–UV radiation resistance in thiol–treated cells. Claycamp HG, et al. **Int J Radiat Biol** 1990 Sep;58(3):449–61

Increase in intracellular cysteine after exposure to dithiothreitol: implications in radiobiology. Dennis MF, et al. **Int J Radiat Biol** 1989 Dec;56(6):877–83

Comparative effect of the thiols dithiothreitol, cysteamine and WR–151326 on survival and on the induction of DNA damage in cultured Chinese hamster ovary cells exposed to gamma–radiation. Murray D, et al. **Int J Radiat Biol** 1990 Jul;58(1):71–91

Radiosensitization by oxygen and radioprotection by thiols: analysis of the combined action according to a modified competition model. Sölen G, et al. **Int J Radiat Biol** 1990 May;57(5):959–69

The effects of NADPH and 3–hydroxy–3–methylglutaryl–CoA on the thiol/disulfide redox behavior of rat liver microsomal 3–hydroxy–3–methylglutaryl–CoA reductase. Cappel RE, et al. **J Biol Chem** 1990 Sep 15;265(26):15464–70

Reduction of the Fe(III)–tyrosyl radical center of Escherichia coli ribonucleotide reductase by dithiothreitol. Fontecave M, et al. **J Biol Chem** 1990 Jul 5; 265(19):10919–24

Effects of heavy metal on rat liver microsomal Ca2(+)–ATPase and Ca2+ sequestering. Relation to SH groups. Zhang GH, et al. **J Biol Chem** 1990 Feb 5; 265(4):2184–9

Effects of active oxygen generated by DTT/Fe2+ on cardiac Na+/Ca2+ exchange and membrane permeability to Ca2+. Shi ZQ, et al. **J Mol Cell Cardiol** 1989 Oct; 21(10):1009–16

Pharmacological differentiation of angiotensin effects in the rabbit isolated vas deferens with dithiothreitol and pertussis toxin. Trachte GJ. **J Pharmacol Exp Ther** 1990 Apr; 253(1):80–4

Characteristics of Ca2(+)–stimulated ATPase in rat heart sarcolemma in the presence of dithiothreitol and alamethicin. Seppet EK, et al. **Mol Cell Biochem** 1989 Nov 23–Dec 19;91(1–2):137–47

Thiol and hydrogen peroxide modification of recA induction in UV–irradiated wild–type and catalase–deficient Escherichia coli K12. Claycamp HG, et al. **Mutat Res** 1990 Mar;235(2):101–9

TOXICITY

Redox modulation of NMDA receptor–mediated toxicity in mammalian central neurons. Levy DI, et al. **Neurosci Lett** 1990 Mar 14;110(3):291–6

DITHIZONE see under **AZO COMPOUNDS**

DITHRANOL see **ANTHRALIN**

DIURESIS

see related
OSMOLAR CONCENTRATION

Effects of diuresis on the characteristics of pleural fluid in patients with congestive heart failure. Shinto RA, et al. **Am J Med** 1990 Mar;88(3):230–4

Measurement of fetal urine production in normal pregnancy by real–time ultrasonography. Rabinowitz R, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1264–6

Regulation of renal pelvic pressure by diuresis and micturition. Djurhuus JC, et al. **Am J Physiol** 1990 Sep; 259(3 Pt 2):R637–44

Effect of potassium–induced diuresis on renal concentration and dilution. Kahn M, et al. **Am J Physiol** 1967 Jun; 212(6):1365–75

A micropuncture study of proximal tubular transport of lithium during osmotic diuresis. Leyssac PP, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F1090–5

Unilateral diuresis by infusing arecoline into renal portal system of hens. May DG, et al. **Am J Physiol** 1967 Jun; 212(6):1351–4

Temporal relationships among fetal urine flow, ANF, and AVP responses to hypertonic infusions. Miner LK, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R469–75

Computer–assisted long–term measurements of urinary output and other biological data. Reinhardt HW, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R274–80

Acute regulation of the predominant organic solutes of the rabbit renal inner medulla. Wolff SD, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F676–81

Distribution of major organic osmolytes in rabbit kidneys in diuresis and antidiuresis. Yancey PH, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F602–7

Acid and alkaline diuresis. When are they of value in the treatment of poisoning? Garrettson LK, et al. **Drug Saf** 1990 May–Jun;5(3):220–32 (64 ref.)

GPC phosphodiesterase and phosphomonoesterase activities of renal cortex and medulla of control, antidiuresis and diuresis rats. Kanfer JN, et al. **FEBS Lett** 1989 Nov 6; 257(2):348–50

The effect of water loading on albumin excretion in type I diabetes mellitus. Wiegmann TB, et al. **J Diabetic Complications** 1989 Oct–Dec;3(4):187–90

Effect of positive and negative pressure breathing on sodium and water excretion. Carlone S, et al. **J Lab Clin Med** 1990 Sep;116(3):298–304

Quantitative static and dynamic renal scintigraphy with diuresis stimulation in renovascular hypertension. Flueckiger F, et al. **Nucl Med Commun** 1989 Nov; 10(11):795–806

Control of nephrotoxicity by hydration–diuresis, and of emesis by alizapride, during cisplatin administration in patients with bladder cancer. Neri B, et al. **Riv Eur Sci Med Farmacol** 1988 Nov;10(5):389–92

Reproducibility of iodine–123–hippuran renoscintigraphy in the normal pig at various flow rates. Frøkiaer J, et al. **Scand J Urol Nephrol Suppl** 1989;125:87–93

Combined pressure and drainage studies in hydronephrosis. Poulsen EU, et al. **Scand J Urol Nephrol Suppl** 1989; 125:95–6

Urodilatin: a newly described member of the ANP family. Feller SM, et al. **Trends Pharmacol Sci** 1989 Mar;10(3):93–4 (32 ref.)

Immersion diuresis occurs independently of water temperatures in the range 25 degrees–35 degrees C [letter; comment] Knight DR, et al. **Undersea Biomed Res** 1990 May;17(3):255–6 Comment on: Undersea Biomed Res 1989 Nov;16(6):427–37.

Characteristics of increased urine flow during a dry saturation dive at 31 ATA. Sagawa S, et al. **Undersea Biomed Res** 1990 Jan;17(1):13–22

[The diuretic effect of a bath. Study in healthy pregnant females and patients with edema and gestosis] Schnizer W, et al. **Zentralbl Gynakol** 1989;111(13):864–70 (Eng. Abstr.) **(Ger)**

[Forced alkalic diuresis. How forced should the forced alkalic diuresis be? (letter)] Rygnestad T. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2921 **(Nor)**

[Urography and the isotopic renogram under diuresis enhance the diagnosis and the indication for therapy in congenital hydronephrosis] Proca E, et al. **Rev Chir [Chir]** 1989 Sep–Oct;38(5):321–34 (Eng. Abstr.)

(Rum)

[Effect of emotional stress on electrocardiogram parameters and diuresis in persons with different levels of arterial pressure] Kruchinina NA, et al. **Fiziol Cheloveka** 1989 May-Jun;15(3):745-50 (Rus)

[Effects of forced diuresis on butylbutanolnitrosamine induction of bladder tumors in rats] Pliss GB, et al. **Vopr Onkol** 1990;36(1):33-6 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Effect of intracerebroventricular deuterium oxide on water intake and AVP release induced by intravenous infusion of angiotensin II in sheep. Hjelmqvist H, et al. **Acta Physiol Scand** 1990 Feb;138(2):155-60

Bradykinin (BK) enhances diuresis and natriuresis in saline volume-expanded dogs. Honda K, et al. **Adv Exp Med Biol** 1989;247A:287-91

Dose-dependent effects of bradykinin infusion in postoperative patients. Jauch KW, et al. **Adv Exp Med Biol** 1989;247A:603-8

Antidiuretic effect of subnormal levels of arginine vasopressin in normal humans. Andersen LJ, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):R53-60

Modulation of vasopressin antidiuretic action by renal alpha 2-adrenoceptors. Gellai M. **Am J Physiol** 1990 Jul;259(1 Pt 2):F1-8 (87 ref.)

Natriuretic and diuretic effects of infusion of atrial natriuretic factor in conscious dogs. Ohanian J, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F565-73

The effects of UK-79,300, an orally-absorbed atriopeptidase inhibitor, in a conscious dog model of cardiac insufficiency. Alabaster CT, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:823P

The natriuretic and diuretic responses to the atriopeptidase inhibitor UK-69,578 in volume expanded rats. Barclay PL, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:824P

Studies on the adrenomedullary dependence of kappa-opioid agonist-induced diuresis in conscious rats. Borkowski KR. **Br J Pharmacol** 1989 Dec;98(4):1151-6

The natriuretic and diuretic efficacy of atriopeptidase inhibitors following intravenous and oral administration. Shepperson NB, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:822P

Diuretic, natriuretic and kaliuretic effects of dexamethasone. Paixão AD, et al. **Braz J Med Biol Res** 1989;22(8):1001-4

Kappa-opioid agonist induced diuresis. Is it mediated by a blood-borne factor of adrenomedullary origin? Borkowski KR. **Can J Physiol Pharmacol** 1989 Oct;67(10):1219-24

Effects of a vasopressin antagonist with combined antipressor and antiantidiuretic activities in rats with left ventricular dysfunction. Mulinari RA, et al. **Circulation** 1990 Jan; 81(1):308-11

Antidiuretic effects of neurotensin in chloralose anaesthetized dogs. Kivlighn SD, et al. **Clin Exp Pharmacol Physiol** 1990 Jun;17(6):401-12

Mechanism of the antidiuretic effect of saluretic drugs. Studies in patients with diabetes insipidus. Ramos G, et al. **Clin Pharmacol Ther** 1967 Jul-Aug;8(4):557-65

Natriuretic and diuretic effects of endothelin in isolated perfused rat kidney. Nitta K, et al. **Endocrinol Jpn** 1989 Dec;36(6):887-90

Factors influencing the sensitivity of rats under ethanol anesthesia to antidiuretic hormone (ADH). Vorherr H, et al. **Endocrinology** 1968 Feb;82(2):218-24

An enhanced diuresis and natriuresis in response to clonidine in spontaneously hypertensive rats. Baranowska B, et al. **Endokrynol Pol** 1989;40(2):79-84

DOPA decarboxylase inhibition does not influence the diuretic and natriuretic response to exogenous alpha-atrial natriuretic peptide in man. Kageyama S, et al. **Eur J Clin Pharmacol** 1990;38(3):223-7

Diuretic and natriuretic responses in rats treated with enkephalinase inhibitors. Bralet J, et al. **Eur J Pharmacol** 1990 Apr 10;179(1-2):57-64

Caffeine-induced diuresis and atrial natriuretic peptides. Nussberger J, et al. **J Cardiovasc Pharmacol** 1990 May; 15(5):685-91

A novel orally active dopamine prodrug TA-870. I. Renal and cardiovascular effects and plasma levels of free dopamine in dogs and rats. Yamaguchi I, et al. **J Cardiovasc Pharmacol** 1989 Jun;13(6):879-86

Diuresis and natriuresis after dihydropyridines: role of prostaglandin E. Chellingsworth MC, et al. **J Hum Hypertens** 1990 Jun;4(3):241-5

Diuretic and natriuretic properties of fenoldopam in chronic renal failure. Andrés A, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S326-7

Contribution of renal nerves to the natriuretic and diuretic effect of alpha-2 adrenergic receptor activation. Kline RL, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):266-71

Inhibitory effects of nisoldipine and saralasin on angiotensin II-induced antidiuresis in anesthetized dogs. Kageyama M, et al. **Jpn J Pharmacol** 1990 Feb;52(2):245-53

Renal nerve blunts natriuretic and diuretic response to atrial natriuretic peptide in conscious rabbits. Morita H, et al. **Jpn J Physiol** 1989;39(6):931-41

Diuretic effect of bumetanide in isolated perfused kidneys of Milan hypertensive rats. Salvati P, et al. **Kidney Int** 1990 Apr;37(4):1084-9

Interference of different ACE-inhibitors with the diuretic action of furosemide and hydrochlorothiazide. Toussaint C, et al. **Klin Wochenschr** 1989 Nov 17;67(22):1138-46

Alkaline diuresis for acute poisoning with chlorophenoxy herbicides and ioxynil. Flanagan RJ, et al. **Lancet** 1990 Feb 24;335(8687):454-8

Chronopharmacological study of furosemide; (V). Influence of pretreatment with 6-hydroxydopamine. Fujimura A, et al. **Life Sci** 1990;46(12):827-31

Chronopharmacological study of furosemide in rats: (III). Examination in spontaneously hypertensive and Wistar-Kyoto rats. Fujimura A, et al. **Life Sci** 1989; 45(25):2459-64

Norepinephrine-induced diuresis in chronically ethanol-treated rats. Pohorecky LA. **Life Sci** 1989; 45(16):1427-32

The pharmacokinetics and pharmacodynamics of furosemide in anesthetized dogs with normal and experimentally decreased renal function. Miyazaki H, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):265-73

Comparison of chlortenoxicam and indomethacin on frusemide-induced diuresis. Hitoglou-Makedou A, et al. **Postgrad Med J** 1989 Nov;65(769):821-3

Protection of atrial natriuretic factor against degradation: diuretic and natriuretic responses after in vivo inhibition of enkephalinase (EC 3.4.24.11) by acetorphan. Gros C, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7580-4

Influence of streptozotocin (STZ)-induced diabetes, dextrose diuresis and acetone on cisplatin nephrotoxicity in Fischer 344 (F344) rats. Scott LA, et al. **Toxicology** 1990 Jan-Feb; 60(1-2):109-25

Diuresis following medetomidine [letter] Crighton M. **Vet Rec** 1990 Feb 24;126(8):201

[Evaluation of the effect of nifedipine in patients with chronic congestive heart failure] Cholewa M, et al. **Kardiol Pol** 1989;32 Suppl 2:33-40 (Eng. Abstr.) (Pol)

[Effect of furosemide on the plasma level of atrial natriuretic peptide (ANP) in healthy persons and in patients with uncomplicated primary arterial hypertension] Czekalski S, et al. **Pol Tyg Lek** 1989 Jul 23-30;44(30-31):715-7 (Eng. Abstr.) (Pol)

[Metolazone in the treatment of refractory heart insufficiency. Experience of 10 cases] Kirancumar, et al. **Rev Port Cardiol** 1989 Nov;8(11):775-8 (Eng. Abstr.) (Por)

[Effects of atrial natriuretic factor on the cardiovascular system and several parameters of renal excretory function in spontaneously hypertensive rats] Frolov VA, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):24-6 (Eng. Abstr.) (Rus)

[Diuretic and body-weight effects of lightly mineralized waters] San Martín Bacaicoa J. **An R Acad Nac Med (Madr)** 1989;106(4):567-83 (Spa)

PHYSIOLOGY

Assessment of the nephron segments involved in post-obstructive diuresis in man, using lithium clearance. Jones DA, et al. **Br J Urol** 1989 Dec;64(6):559-63

Evidence for a dopaminergic mechanism for the diuretic and natriuretic action of centrally administered atrial natriuretic factor. Israel A, et al. **Cell Mol Neurobiol** 1989 Sep; 9(3):369-78

Sodium and water excretion in nephrotic patients: effects of changes in renal haemodynamics. Allon M, et al. **Clin Sci** 1990 Aug;79(2):123-9

Active and inactive urinary kallikrein in man: effects of diuresis and antidiuresis. Waller DG, et al. **Clin Sci** 1990 Aug;79(2):117-21

Excretion of alcohol in urine and diuresis in healthy men in relation to their age, the dose administered and the time after drinking. Jones AW. **Forensic Sci Int** 1990 Apr; 45(3):217-24

Relationship between plasma antidiuretic hormone and atrial natriuretic peptide during the triphasic diuresis response to experimentally induced acute intracranial hypertension. Rap ZM, et al. **Funct Neurol** 1989 Oct-Dec;4(4):391-4

Osmotic diuresis and proximal tubular lithium reabsorption in the dog. Brown J. **Kidney Int Suppl** 1990 Mar;28:S67-70

Hypotonic diuresis following oropharyngeal stimulation with water in humans. Akaishi T, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):70-4

Plasma arginine vasopressin, diuresis, and neonatal respiratory distress syndrome. Zanardo V, et al. **Padiatr Padol** 1989;24(4):297-302

Correlations of homeostatic tubular functions with various renal structural lesions and clinical types of functionally-compensated glomerulonephritis. Ratner MYa. **Pol Arch Med Wewn** 1988 Oct;80(4):202-12

Diuretic hormones and malpighian tubule function. Rafaeli A. **Prog Clin Biol Res** 1990;342:553-8 (32 ref.)

Effect of the cessation of an infusion of vasopressin in acutely hypophysectomized anaesthetized dogs. Bennett KL, et al. **Q J Exp Physiol** 1989 Nov;74(6):841-9

Absence of diuresis during a 7-day saturation dive at 2.5 ATA N2-O2. Niu AK, et al. **Undersea Biomed Res** 1990 May;17(3):189-99

[Age-related characteristics of the ion-regulating function of the kidneys] Aizman RI, et al. **Fiziol Cheloveka** 1989 Jul-Aug;15(4):78-86 (Rus)

[Vasopressin: the ontogeny of antidiuretic action at the cellular level] Ivanova LN, et al. **Fiziol Zh SSSR** 1989 Jul; 75(7):970-9 (Eng. Abstr.) (Rus)

[The effect of neostriatal stimulation on diuresis under conditions of unrestrained behavior in cats] Val'damirova EP. **Fiziol Zh SSSR** 1989 Oct;75(10):1374-80 (Eng. Abstr.) (Rus)

[The effect of stimulation of the neostriatum on diuresis in cats in an acute experiment] Val'damirova EP. **Fiziol Zh SSSR** 1990 Feb;76(2):253-8 (Eng. Abstr.) (Rus)

DIURETICS

Renal and hemodynamic effects of atrial natriuretic peptide in patients with cirrhosis. Fried T, et al. **Am J Med Sci** 1990 Jan;299(1):2-9

UK-69,578, a novel inhibitor of EC 3.4.24.11 which increases endogenous ANF levels and is natriuretic and diuretic. Danilewicz JC, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):58-65

Diuretic effect and diuretic efficiency after intravenous dosage of frusemide. Alván G, et al. **Br J Clin Pharmacol** 1990 Feb;29(2):215-9

Diuretic effect induced by intrarenal infusion of nisoldipine in anaesthetized dogs. Kageyama M, et al. **Clin Exp Pharmacol Physiol** 1989 Sep;16(9):719-24

Renal excretory actions of furosemide, of hydrochlorothiazide and of the vasodilator flosequinan in healthy subjects. Leary WP, et al. **J Int Med Res** 1990 Mar-Apr;18(2):120-41

Angiotensin-converting enzyme inhibitors. 9. Novel [[N-(1-carboxy-3-phenylpropyl)amino]acyl]glycine derivatives with diuretic activity. Barton JN, et al. **J Med Chem** 1990 Jun;33(6):1600-6

Diuretic profile of 66A-078, a synthetic non hydrolizable dynorphin derivative active centrally. Donoso MV, et al. **Prog Clin Biol Res** 1990;328:401-4

Different behaviour of the N-terminal and C-terminal fragment of proatrial natriuretic factor in plasma of healthy subjects as well as of patients with cirrhosis. Gerbes AL, et al. **Scand J Clin Lab Invest** 1990 Apr;50(2):195-8

[Diuretics] Cavatorta A. **Ann Ital Med Int** 1987 Jan-Mar; 2(1):53-7 (30 ref.) (Ita)

ADMINISTRATION & DOSAGE

Urinary oxalate excretion during intravenous infusion of diuretics in man. Boer P, et al. **Nephron** 1990;54(2):187-8

The effects of low dose intravenous 99-126 atrial natriuretic factor infusion in patients with chronic renal failure. Woolf AS, et al. **Postgrad Med J** 1989 Jun;65(764):362-6

[Comparative study of 2 dosages of a new antihypertensive agent, cicletanine, in elderly subjects] Jungers P, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:125-9 (Eng. Abstr.) (Fre)

[Reaction of the blood system in extra- and intracorporeal detoxication] Chelmakina VP. **Anesteziol Reanimatol** 1990 Mar-Apr;(2):33-6 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Lipid abnormalities and diuretics [letter] Feeman WE Jr. **Am Fam Physician** 1990 Aug;42(2):315, 318, 321-4

Torsade de pointes [letter; comment] Tzivoni D, et al. **Am Heart J** 1989 Dec;118(6):1359-60 Comment on: Am Heart J 1988 Nov;116(5 Pt 1):1355-7.

Critique of the clinical importance of diurectic-induced hypokalemia and elevated cholesterol level . Freis ED. **Arch Intern Med** 1989 Dec;149(12):2640-8 (76 ref.)

How bad are diuretic-induced hypokalemia and hypercholesterolemia? Kaplan NM. **Arch Intern Med** 1989 Dec;149(12):2649

Pregnancy-induced hypertension and renal failure: clinical importance of diuretics, plasma volume and vasospasm [see comments] Brown MA, et al. **Aust N Z J Obstet Gynaecol** 1989 Aug;29(3 Pt 1):230-2 Comment in: Aust N Z J Obstet Gynaecol 1990 Feb;30(1):88-9.

ACE inhibitors and diuretics causing hypokalaemia. D'Costa DF, et al. **Br J Clin Pract** 1990 Jan;44(1):26-7

Biochemical aberrations in hypertensive patients on antihypertensive drug therapy. Gomo ZA. **Cent Afr J Med** 1989 Aug;35(8):451-6

Potassium supplements vs. potassium-sparing diuretics. Womack PL, et al. **DICP** 1990 Jul-Aug;24(7-8):710-1 (8 ref.)

Incidence of diabetes during antihypertensive treatment. Bengtsson C. **Horm Metab Res Suppl** 1990;22:38-42

Effect of diuretic use on the development of diabetes mellitus. The Framingham study. Donahue RP, et al. **Horm Metab Res Suppl** 1990;22:46-8

Predicting acute gout in diuretic-treated hypertensive patients. Waller PC, et al. **J Hum Hypertens** 1989 Dec; 3(6):457-61

Hyperparathyroidism, hypertension and loop diuretic medication in renal transplant recipients. Bittar AE, et al. **Nephrol Dial Transplant** 1989;4(8):740-4

[Effects of cicletanine on plasma lipid metabolism. Mid-term open trial in hypertensive patients with normal blood lipids and hyperlipidemia] Rouffy J, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:131-4 (Eng. Abstr.) (Fre)

[Diuretic-induced edema] Middeke M, et al. **Dtsch Med Wochenschr** 1990 Feb 9;115(6):216-9 (Eng. Abstr.) (Ger)

[Idiopathic and diuretic-induced edema] Krahl M, et al. **Z Lymphol** 1989 Dec;13(2):71-3 (Eng. Abstr.) (Ger)

[Magnesium during diuretic therapy] Landmark K, et al. **Tidsskr Nor Laegeforen** 1990 Jan 10;110(1):59-60 (Nor)

[Myopathy caused by potassium depletion. Report of 5 cases] Bautista J, et al. **Neurologia** 1986 Mar–Apr;1(2):84–7 (Eng. Abstr.) **(Spa)**

[Magnesium, diuretics and tetany (letter)] Alvarez J. **Rev Esp Anestesiol Reanim** 1990 May–Jun;37(3):186 **(Spa)**

ANTAGONISTS & INHIBITORS

[Vasoconstricting effect of endothelin. Interaction with atrial natriuretic factor, sodium nitroprusside, ciceletanine and nifedipine] Auguet M, et al. **Arch Mal Coeur** 1989 Jul; 82(7):1169–72 (Eng. Abstr.) **(Fre)**

BLOOD

Solid–phase extraction and liquid chromatography of torsemide and metabolites from plasma and urine. March C, et al. **J Pharm Sci** 1990 May;79(5):453–7

CHEMICAL SYNTHESIS

Synthetic studies on diuretics. 5–(3,3–N,S–substituted–2–propenoyl)–2,3–dihydro–2–benzo[b]furancarboxylic acids. Ohsugi E, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1268–78

Studies on uricosuric diuretics. I. Syntheses and activities of xanthonyloxyacetic acids and dihydrofuroxanthone–2–carboxylic acids. Sato H, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1266–77

DIAGNOSTIC USE

[Computed tomography of the kidney with diuretics—a method for avoiding artifacts due to nonionic contrast media] Hiromura T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jul 25; 49(7):857–62 (Eng. Abstr.) **(Jpn)**

METABOLISM

[Effect of ciceletanine on prostacyclin generation in vivo] Bourgain RH, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:33–6 (Eng. Abstr.) **(Fre)**

[Study of the binding of diuretics by serum proteins according to changes in tryptophan fluorescence] Lebedev AA, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):40–3 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Pharmacokinetics of diuretics in geriatric patients. Mühlberg W. **Arch Gerontol Geriatr** 1989 Nov–Dec;9(3):283–90

Contraluminal organic anion and cation transport in the proximal renal tubule: V. Interaction with sulfamoyl– and phenoxy diuretics, and with beta–lactam antibiotics. Ullrich KJ, et al. **Kidney Int** 1989 Jul;36(1):78–88

[Therapeutic drug monitoring of diuretics] Orita Y, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:1184–8 **(Jpn)**

PHARMACOLOGY

The effect of loop diuretics on the long–term outcome of post–ischaemic acute renal failure in the rat. Bayati A, et al. **Acta Physiol Scand** 1990 Jun;139(2):271–9

Diuretics and transmembrane ionic exchanges: structure–activity relations and clinical applications. Diez J. **Am J Cardiol** 1990 May 2;65(17):55H–57H (18 ref.)

Interaction of diuretics and electrolytes in congestive heart failure. Nicholls MG. **Am J Cardiol** 1990 Mar 6; 65(10):17E–21E; discussion 22E–23E

Effects of atrial natriuretic factor in conscious rhesus monkeys with acute volume expansion. Lee KC, et al. **Am J Hypertens** 1990 Apr;3(4):262–7

Superiority of salt restriction over diuretics in reducing renal hypertrophy and injury in uninephrectomized SHR. Benstein JA, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):F1675–81

Comparative effects of diuretics and atrial peptide in chronic caval dogs. Levy M. **Am J Physiol** 1990 Apr;258(4 Pt 2):F768–74

Impaired aldosterone production by long–term infusion of atrial natriuretic factor. Nagano M, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E51–6

Effects of hyperosmolality and diuretics on heat–induced limb vasodilation in baboons. Proppe DW. **Am J Physiol** 1990 Feb;258(2 Pt 2):R309–17

Molecular mechanisms of diuretic agents. Breyer J, et al. **Annu Rev Med** 1990;41:265–75 (45 ref.)

Vascular actions of ciceletanine. Bukoski RD, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:45–50

Studies on the mechanism of action of the antihypertensive agent ciceletanine. Castro A, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:51–4

Ciceletanine stimulates cholesteryl ester hydrolase activities and prostacyclin production in arterial smooth muscle cells. Hajjar DP, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:79–84

Inhibitory effect of ciceletanine on vascular smooth muscle cell proliferation. Sato M, et al. **Arch Mal Coeur** 1989 Nov; 82 Spec No 4:63–6

Renal effects of atrial natriuretic factor (99–126) in conscious sodium–replete sheep. Yates NA, et al. **Clin Exp Pharmacol Physiol** 1988 Jul;15(7):551–62

Mechanism of the antidiuretic effect of saluretic drugs. Studies in patients with diabetes insipidus. Ramos G, et al. **Clin Pharmacol Ther** 1967 Jul–Aug;8(4):557–65

Stereospecificity of the effects of ozolinone on renal hemodynamics and on segmental tubular sodium reabsorption in conscious rats. Shalmi M, et al. **Eur J Pharmacol** 1990 May 3;180(1):69–76

Different effects of alpha–human atrial natriuretic peptide and nitroglycerin on cardiac dimensions in humans. Imaizumi T, et al. **Heart Vessels** 1990;5(2):87–92

Effects of diuretics on insulin secretion and glucose disposal. Gries FA, et al. **Horm Metab Res Suppl** 1990;22:33–8 (55 ref.)

Role of macula densa in diuretics–induced renin release. Martínez–Maldonado M, et al. **Hypertension** 1990 Sep; 16(3):261–8

The metabolic effects of diuretics and other antihypertensive drugs: a perspective as of 1989. Raftery EB. **Int J Cardiol** 1990 Aug;28(2):143–50 (62 ref.)

Effect of ciceletanine on reperfusion–induced arrhythmias and ion shifts in isolated rat hearts. Tosaki A, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):218–26

Atriopeptins are potent inhibitors of ACTH secretion by rat anterior pituitary cells in vitro: involvement of the atrial natriuretic factor receptor domain of membrane–bound guanylyl cyclase. Dayanithi G, et al. **J Endocrinol** 1990 Apr;125(1):39–44

A mechanical stress increases sodium ion content in vascular smooth muscle cells through a calcium–dependent pathway: prevention by ciceletanine via a cyclo–oxygenase product. Rosati C, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S322–3

AY–31,906, a novel high ceiling diuretic: characterization of its relative potassium–sparing actions in rats and dogs. Ackerman DM, et al. **J Pharmacol Exp Ther** 1989 Dec; 251(3):1113–9

Different motor actions of dynorphins and nonpeptide kappa opioid receptor agonists in the isolated rat colon. Scheurer U, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1324–30

Noncyclic vasopressin analogs are effective diuretics in conscious rats. Uyehara CF, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1128–33

Interpersonal behavior and cardiovascular reactivity in pharmacologically–treated hypertensives. Delamater AM, et al. **J Psychosom Res** 1989;33(3):335–45

Diuretic effects of L–threo–3,4–dihydroxyphenylserine (L–threo–DOPS) in anesthetized rats. Morimoto S, et al. **Jpn J Pharmacol** 1990 Mar;52(3):431–9

Effect of diuretics on cell potassium transport: an electron microprobe study. Beck FX, et al. **Kidney Int** 1990 Jun; 37(6):1423–8

Effects of atrial natriuretic peptide on distal tubule function in humans. Rabelink TJ, et al. **Kidney Int** 1990 Mar; 37(3):996–1001

Lithium clearance in healthy humans: effects of sodium intake and diuretics. Atherton JC, et al. **Kidney Int Suppl** 1990 Mar;28:S36–8

Effect of diuretic and antidiuretic agents on lithium clearance as a marker for proximal delivery. Kirchner KA. **Kidney Int Suppl** 1990 Mar;28:S22–5 (27 ref.)

Age differences in renal response to atrial natriuretic peptide in rabbits. Semmekrot BA, et al. **Life Sci** 1990;46(12):849–56

Urinary angiotensin excretion during sodium restriction and diuretics. Boer P, et al. **Nephrol Dial Transplant** 1989; 4(8):713–7

Pharmacology of diuretics in the newborn. Chemtob S, et al. **Pediatr Clin North Am** 1989 Oct;36(5):1231–50 (120 ref.)

The pharmacology and therapeutics of diuretics in the pediatric patient. Wells TG. **Pediatr Clin North Am** 1990 Apr;37(2):463–504 (318 ref.)

Secretagogues increase apical membrane conductance of isolated bullfrog corneal epithelium pretreated with loop diuretics. Schoen HF. **Pflugers Arch** 1989 Sep;414(6):713–8

Optimization of the therapeutic index by adjustment of the rate of drug administration or use of drug combinations: exploratory studies of diuretics. Zhi J, et al. **Pharm Res** 1990 Jul;7(7):697–702

Effect of diuretics on adrenergic receptors in the rat. Brørs O, et al. **Pharmacol Toxicol** 1989 Oct;65(4):249–51

Magnesium deficiency and antihypertensive therapy. Leary WP. **S Afr Med J** 1989 Oct 7;Suppl:6

Changes in rat and mouse salivary glands and pancreas after chronic treatment with diuretics: a potential animal model for cystic fibrosis. Sagström S, et al. **Scanning Microsc** 1990 Mar;4(1):161–70; discussion 170

Molecular sites for diuretic action. Hendry BM, et al. **Trends Pharmacol Sci** 1988 Nov;9(11):416–21 (33 ref.)

[Interaction of atrial natriuretic factor and ciceletanine in relation to contractions induced by endothelin and phenylephrine on the isolated rat aorta] Auguet M, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:59–62 (Eng. Abstr.) **(Fre)**

[Changes in the glucose tolerance parameters in non–diabetic hypertensive patients treated with ciceletanine] Clerson P, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:139–43 (Eng. Abstr.) **(Fre)**

[Effects of treatment with ciceletanine on kidney PGE2 and PGI1 in spontaneously hypertensive rats] Deby C, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:37–40 (Eng. Abstr.) **(Fre)**

[Reduction of kidney prostaglandin synthesis in patients with essential hypertension. Stimulating effect of ciceletanine] Hornych A, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:85–90 (Eng. Abstr.) **(Fre)**

[Effect of ciceletanine on the mechanical properties of the arterial wall] Levy BI, et al. **Arch Mal Coeur** 1989 Nov; 82 Spec No 4:67–70 (Eng. Abstr.) **(Fre)**

[Ciceletanine tolerance in hypertensive patients with metabolic disorders] Passa P. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:135–8 (Eng. Abstr.) **(Fre)**

[Ionic perturbations produced by a non–laminar flow in vascular smooth muscle cells in culture. Protection by ciceletanine via a cyclo–oxygenase metabolite] Rosati C, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:41–4 (Eng. Abstr.) **(Fre)**

[Protective action of ciceletanine on the vascular walls in stroke–prone spontaneously hypertensive rats] Ruchoux MM, et al. **Arch Mal Coeur** 1989 Jul;82(7):1163–8 (Eng. Abstr.) **(Fre)**

[Evaluation of rhythm tolerance of ciceletanine using continuous electrocardiographic recording] Witchitz S, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:145–9 (Eng. Abstr.) **(Fre)**

[Pharmacology and clinical use of diuretics: torasemide in focus. Satellite symposium. 3rd International Conference on Diuretics. Mexico City, 2–7 April 1989] **Internist (Berl)** 1989 Nov;30(11 Suppl):1–16 **(Ger)**

[Diuretics and zinc] Golik A, et al. **Harefuah** 1989 Jun 1; 116(11):593–4 (19 ref.) **(Heb)**

[New concepts of nephron function and the mechanisms of action of diuretics] Lebedev AA. **Farmakol Toksikol** 1990 Mar–Apr;53(2):8–13 (24 ref.) (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Long–term diuretic therapy and renal function in essential arterial hypertension. Alcazar JM, et al. **Am J Cardiol** 1990 May 2;65(17):51H–54H (23 ref.)

Diuretics and the treatment of systemic hypertension. Aranda P, et al. **Am J Cardiol** 1990 May 2;65(17):72H–76H (55 ref.)

Considerations of aldosterone in congestive heart failure, arrhythmias and sudden cardiac death. Editorial overview. Castaigne A. **Am J Cardiol** 1990 Jun 19;65(23):39K–40K

Acute reduction of atrial overload during vasodilator and diuretic therapy in advanced congestive heart failure. Hamilton MA, et al. **Am J Cardiol** 1990 May 15; 65(18):1209–12

The effect of acute and subchronic treatment with ciceletanine on DOCA–salt hypertension in the rat. Fuentes JA, et al. **Am J Hypertens** 1989 Sep;2(9):718–20

Metabolic effects of diuretic and beta–blocker treatment of hypertension in patients with non–insulin–dependent diabetes mellitus. Fuh MM, et al. **Am J Hypertens** 1990 May;3(5 Pt 1):387–90

The effect of ciceletanine on cerebrovascular injury in stroke–prone spontaneously hypertensive rats. Ruchoux MM, et al. **Am J Hypertens** 1989 Sep;2(9):683–9

Confusing messages from the newest of the beta–blocker/diuretic hypertension trials. The Metoprolol Atherosclerosis Prevention in Hypertensives trial. Moser M, et al. **Arch Intern Med** 1989 Oct;149(10):2174–5

Combination of converting enzyme inhibitor with diuretic for the treatment of hypertension. Townsend RR, et al. **Arch Intern Med** 1990 Jun;150(6):1175–83 (125 ref.)

Evaluation of the effect of ciceletanine on genetic atherosclerosis in the rabbit. Hudson P, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:71–7

Metabolic considerations in the treatment of the black hypertensive. Weinberger MH. **Clin Cardiol** 1989 Dec;12(12 Suppl 4):IV82–6 (39 ref.)

Diuretics and other antihypertensive drugs and glycemic control in non–insulin–dependent diabetics with hypertension. A survey by the Fukuoka Diabetes Clinic Group. Tsutsu N, et al. **Clin Exp Hypertens [A]** 1989; 11(8):1487–504

The treatment of congestive heart failure with diuretics and nondiuretic agents. Zatuchni J. **Clin Ther** 1988;10(4):328–49 (103 ref.)

Blood pressure control and mortality—is there a J–shaped curve? Wedel H. **Drugs** 1989;38 Suppl 2:9

Potential benefit of combination therapy with diuretics and beta blockers having intrinsic sympathomimetic activity. Weinberger MH. **Eur Heart J** 1990 Jun;11(6):560–5 (42 ref.)

The safety of adding carvedilol to hypertensive patients inadequately treated with diuretics. Dupont AG, et al. **Eur J Clin Pharmacol** 1990;38 Suppl 2:S153–7

Changing concepts in the management of congestive heart failure. Keller KB, et al. **Heart Lung** 1990 Jul;19(4):425–9 (5 ref.)

Resistant hypertension. Evaluation and treatment [see comments] Kaplan NM. **Hosp Pract [Off]** 1989 Dec 15; 24(12):97–100, 105–8, 111 Comment in: Hosp Pract [Off] 1990 Mar 15;25(3):13.

Current issues in diuretic therapy. Mende CW. **Hosp Pract [Off]** 1990 Jan;25 Suppl 1:15–21; discussion 30–1 (7 ref.)

Controversies in congestive heart failure therapy. Nicklas JM. **Hosp Pract [Off]** 1990 Jan;25 Suppl 1:22–9; discussion 30–1 (20 ref.)

Interventional clinical trials using noninvasive ultrasound end points: the Multicenter Isradipine/Diuretic Atherosclerosis Study. The MIDAS Research Group. Bond MG, et al. **J Cardiovasc Pharmacol** 1990;15 Suppl 1:S30–3

Multicenter study with isradipine and diuretics against atherosclerosis. US MIDAS Research Group. Borhani NO, et al. **J Cardiovasc Pharmacol** 1990;15 Suppl 1:S23–9

A randomised prospective trial comparing daily paracentesis and intravenous albumin with recirculation in diuretic refractory ascites. Smart HL, et al. **J Hepatol** 1990 Mar; 10(2):191–7

Does an adequate control of blood pressure protect the kidney in essential hypertension? Ruilope LM, et al. **J Hypertens** 1990 Jun;8(6):525–31

Etozolin monotherapy and combination with verapamil in essential hypertension. Muiesan G, et al. **J Hypertens Suppl** 1989 Dec;7(6):S278–9

Hyponatremia–induced brain edema in guinea pigs is reduced by treatment with the novel anion transport inhibitor L–644,711. Trachtman H, et al. **Life Sci** 1989;45(22):2141–7

Drug therapy for bronchopulmonary dysplasia. Davis JM, et al. **Pediatr Pulmonol** 1990;8(2):117–25 (85 ref.)

[Evaluation of the effectiveness and tolerance of cicletanine in patients with essential hypertension treated with beta–blockers] Clerson P, et al. **Arch Mal Coeur** 1989 Nov; 82 Spec No 4:113–8 (Eng. Abstr.) (Fre)

[Evaluation of cicletanine efficiency and tolerance in hypertensive patients treated with beta–blockaders] Clerson P, et al. **Arch Mal Coeur** 1989 Jul;82(7):1293–7 (Eng. Abstr.) (Fre)

[Cicletanine and the sympathetic nervous system. A study of awake sino–aortic denervated hypertensive dogs] Damase–Michel C, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:55–8 (Eng. Abstr.) (Fre)

[Effectiveness of cicletanine on lesions in spontaneously hypertensive rats. Curative study—dose–effect relationship] Droy–Lefaix MT, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:163–8 (Eng. Abstr.) (Fre)

[Dose–effectiveness relationship of cicletanine at short–term in moderately to severely hypertensive patients] Fritel D. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:99–102 (Eng. Abstr.) (Fre)

[Cicletanine administered with other antihypertensive agents] Grimberg D, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:109–12 (Eng. Abstr.) (Fre)

[Effect of cicletanine on a sudden death model in dogs] Guillon JM, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:151–4 (Eng. Abstr.) (Fre)

[Protective effect of cicletanine in hypertensive retinopathy. Evaluation of retinal function in the isolated retina] Millerin M, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:175–9 (Eng. Abstr.) (Fre)

[Malignant hypertensive retinopathy in spontaneously hypertensive stroke–prone rats. Effect of treatment with cicletanine] Ruchoux MM, et al. **Arch Mal Coeur** 1989 Jul; 82(7):1281–4 (Eng. Abstr.) (Fre)

[Effects of cicletanine on kidney lesions associated with age. Light and electron microscopy studies] Ruchoux MM, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:181–5 (Eng. Abstr.) (Fre)

[Comparison of the effects of cicletanine and captopril on kidney and heart lesions in spontaneously hypertensive rats (SHR–SP)] Ruchoux MM, et al. **Arch Mal Coeur** 1989 Nov; 82 Spec No 4:169–74 (Eng. Abstr.) (Fre)

[Evaluation of the effectiveness of a cicletanine–enalapril combination in hypertensive patients] Safar M, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:119–24 (Eng. Abstr.) (Fre)

[Antihypertensive effectiveness and tolerance of cicletanine. Results obtained with bitherapy] Tarrade T, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:103–8 (Eng. Abstr.) (Fre)

[Antihypertensive effectiveness and tolerance of cicletanine. Results obtained with monotherapy in a large population] Tarrade T, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:91–7 (Eng. Abstr.) (Fre)

[Effect of cicletanine on arrhythmia and intracellular sodium accumulation in the isolated rat heart during ischemia and reperfusion] Tosaki A, et al. **Arch Mal Coeur** 1989 Nov; 82 Spec No 4:155–61 (Eng. Abstr.) (Fre)

[The role of diuretics in the treatment of chronic heart failure] Düsing R. **Herz** 1990 Jun;15(3):185–9 (27 ref.) (Eng. Abstr.) (Ger)

[Therapeutic use of diuretics and digitalis glycosides in renal failure] Scheler F, et al. **Verh Dtsch Ges Inn Med** 1989; 95:252–60 (20 ref.) (Ger)

[Ambulatory therapy regimen in patients following myocardial infarct in relation to echocardiography and the stress test] Schaller K, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):543–5 (Eng. Abstr.) (Ger)

[Renal effects of ibopamine in comparison with furosemide in patients with mild heart failure] Wehling M, et al. **Z Kardiol** 1990 Feb;79(2):120–5 (Eng. Abstr.) (Ger)

[Etozolin and captopril in the treatment of arterial hypertension] Battaglia A, et al. **Clin Ter** 1990 Feb 15; 132(3):173–9 (Eng. Abstr.) (Ita)

[Drug therapy of hypertension using diuretics] Nishimura H, et al. **Nippon Rinsho** 1989 Sep;47(9):2030–4 (Jpn)

[Prevention and countermeasures in heart diseases complicated by hypertension] Nunoda S, et al. **Nippon Rinsho** 1989 Sep;47(9):2086–90 (Jpn)

[Current status of the pharmacologic treatment of heart insufficiency. Role of diuretics] Araújo A. **Rev Port Cardiol** 1989 Jun;8(6):483–5 (5 ref.) (Eng. Abstr.) (Por)

[Use of isolated ultrafiltration in nephrotic edema resistant to diuretics] Klepikov PV, et al. **Ter Arkh** 1989;61(6):94–6 (Eng. Abstr.) (Rus)

[Is arterial hypertension correctly treated in the elderly? (letter)] Ferrer JV. **Rev Clin Esp** 1990 Feb;186(3):143 (Spa)

TOXICITY

Ototoxicity of loop diuretics. Morphological and electrophysiological examinations in animal experiments. Hommerich CP. **Adv Otorhinolaryngol** 1990;44:92–164 (163 ref.)

URINE

Systematic analysis of diuretic doping agents by HPLC screening and GC/MS confirmation. Park SJ, et al. **J Anal Toxicol** 1990 Mar–Apr;14(2):84–90

Mass spectrometry of methyl and methyl–d3 derivatives of diuretic agents. Yoon CN, et al. **J Anal Toxicol** 1990 Mar–Apr;14(2):96–101

DIURETICS, MERCURIAL

PHARMACOKINETICS

Hepatobiliary transport of the anionic organomercury compound (mersalyl) is carrier mediated. Thalhammer T, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3223–31

PHARMACOLOGY

The mitochondrial inner–membrane anion channel possesses two mercurial–reactive regulatory sites. Beavis AD. **Eur J Biochem** 1989 Nov 20;185(3):511–9

Induction of mitochondrial Ca2+ uptake by mersalyl. Chavez E, et al. **Int J Biochem** 1989;21(11):1241–4

DIURETICS, OSMOTIC

PHARMACOLOGY

Analysis of reabsorbate concentrations in the proximal tubules of dog kidneys during osmotic diuresis. Ostensen J. **Acta Physiol Scand** 1989 Oct;137(2):163–75

Difference between hypertonic NaCl and NaHCO3 as osmotic diuretics in dog kidneys. Ostensen J, et al. **Acta Physiol Scand** 1989 Oct;137(2):177–87

[The influence of inhibitors of kinin and prostaglandin formation on the vascular and tubular effects of osmotic diuretics in the kidney] Kuz'min OB, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):46–8 (Eng. Abstr.) (Rus)

DIURETICS, SULFAMYL

Stereoselective glutathione conjugation of a uricosuric diuretic. Higaki J, et al. **Chem Biol Interact** 1989; 72(1–2):209–14

ADMINISTRATION & DOSAGE

Effect of bumetanide on tubuloglomerular feedback in Necturus maculosus. Persson BE, et al. **Acta Physiol Scand** 1989 Sep;137(1):93–9

A log–dose–response study of xipamide and its effect on metabolic parameters. Owens CW, et al. **J Hypertens Suppl** 1989 Dec;7(6):S320–1

Prediction of diuretic mobilization of cirrhotic ascites by pretreatment fractional sodium excretion. Knauf H, et al. **Klin Wochenschr** 1990 Jun 5;68(11):545–51

Effect of furosemide, bumetanide and mannitol on intracranial pressure in experimental brain edema of the rat. Plangger C, et al. **Zentralbl Neurochir** 1989; 50(3–4):142–4

ADVERSE EFFECTS

Neutropenia and metolazone. Donovan KL. **BMJ** 1989 Oct 14;299(6705):981

Interstitial nephritis associated with indapamide. Newstead CG, et al. **BMJ** 1990 May 19;300(6735):1344

Probable metolazone–induced pancreatitis [letter] Fuchs JE Jr, et al. **DICP** 1989 Sep;23(9):711

Bumetanide–induced pseudoporphyria. Leitao EA, et al. **J Am Acad Dermatol** 1990 Jul;23(1):129–30

Lithium intoxication with coadministration of a loop–diuretic [letter] Huang LG. **J Clin Psychopharmacol** 1990 Jun; 10(3):228

Is indapamide (Lozol) safer than a thiazide? **Med Lett Drugs Ther** 1989 Nov 17;31(805):103

Pulmonary fibrosis in a patient treated with bumetanide: clinical improvement associated with transition from a granulocytic to lymphocytic alveolitis. Barnett R, et al. **Respir Med** 1990 Jan;84(1):71–5

[Photosensitivity following enoxacin and xipamide: combined phototoxic and photo–allergic reaction to enoxacin, photo–allergic reaction to xipamide with subsequent transient light reaction] Schauder S. **Z Hautkr** 1990 Mar; 65(3):253–62 (Eng. Abstr.) (Ger)

BLOOD

Simultaneous analysis of furosemide and bumetanide in horse plasma using high performance liquid chromatography. Singh AK, et al. **Biomed Chromatogr** 1989 Nov;3(6):262–5

[3H]bumetanide binding to avian erythrocyte membranes. Correlation with activation and deactivation of Na/K/2Cl cotransport. Pewitt EB, et al. **J Biol Chem** 1990 Aug 25; 265(24):14364–70

METABOLISM

Binding of bumetanide to microsomes from optic ganglia of the squid, Loligo pealei. Altamirano AA, et al. **Am J Physiol** 1990 May;258(5 Pt 1):C933–43

Alterations of bile acid and bumetanide uptake during culturing of rat hepatocytes. Föllmann W, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):C700–12

Effect of ions on binding of the thiazide–type diuretic metolazone to kidney membrane. Tran JM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F908–15

Solubilization of thiazide diuretic receptors from rat kidney membranes. Luo H, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):119–22

Possible protein binding displacement interaction between glibenclamide and metolazone. George S, et al. **Eur J Clin Pharmacol** 1990;38(1):93–5

Metabolism of the diuretic bumetanide in healthy subjects and patients with renal impairment. Howlett MR, et al. **Eur J Clin Pharmacol** 1990;38(6):583–6

[3H]bumetanide binding in vascular endothelial cells. Quantitation of Na–K–Cl cotransporters. O'Donnell ME. **J Biol Chem** 1989 Dec 5;264(34):20326–30

Solubilization and partial purification of the rabbit parotid Na/K/Cl–dependent bumetanide binding site. Turner RJ, et al. **J Membr Biol** 1990 Feb;113(3):203–10

Rabbit distal colon epithelium: II. Characterization of (Na+,K+,Cl–)–cotransport and [3H]–bumetanide binding. Wiener H, et al. **J Membr Biol** 1989 Sep;110(2):163–74

PHARMACOKINETICS

Pharmacological evaluation of hydroxypropylcellulose–ethylcellulose microcapsules containing piretanide. Tsujiyama T, et al. **J Pharmacobiodyn** 1990 Jan;13(1):1–9

Renal responses and pharmacokinetics of piretanide in humans: effect of route of administration, state of hydration and probenecid pretreatment. Noormohamed FH, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):992–9

PHARMACOLOGY

Effects of indapamide on the mechanical properties of the arterial wall in deoxycorticosterone acetate–salt hypertensive rats. Levy BI, et al. **Am J Cardiol** 1990 May 2;65(17):28H–32H

Effects of indapamide on endothelium–dependent relaxations in isolated canine femoral arteries. Schini VB, et al. **Am J Cardiol** 1990 May 2;65(17):6H–10H

Loop diuretic and anion modification of NEM–induced K transport in human red blood cells. Berkowitz LR. **Am J Physiol** 1990 Apr;258(4 Pt 1):C622–9

Loop diuretic–sensitive potassium flux pathways of rat glomerular mesangial cells. Homma T, et al. **Am J Physiol** 1990 May;258(5 Pt 1):C862–70

Regulatory volume increase in mammalian jejunal villus cells is due to bumetanide–sensitive NaKCl2 cotransport. MacLeod RJ, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G665–74

The effects of furosemide and bumetanide on lung liquid production by in vitro lungs from fetal guinea pigs. Thom J, et al. **Can J Physiol Pharmacol** 1990 Aug;68(8):1131–5

Antioxidant activity of indapamide and its metabolite. Tamura A, et al. **Chem Pharm Bull (Tokyo)** 1990 Jan; 38(1):255–7

The effect of loop diuretics on fluid reabsorption from the rat proximal convoluted tubule. Greenwood SL, et al. **Exp Physiol** 1990 May;75(3):375–82

Radical scavengers of indapamide in prostacyclin synthesis in rat smooth muscle cell. Uehara Y, et al. **Hypertension** 1990 Feb;15(2):216–24

Modification of the antihypertensive effect of indapamide by indomethacin. Pasnani JS, et al. **Indian J Physiol Pharmacol** 1989 Jul–Sep;33(3):146–50

Biochemical, endocrine, and mineral effects of indapamide in black women. Prisant LM, et al. **J Clin Pharmacol** 1990 Feb;30(2):121–6 (45 ref.)

Bumetanide–induced natriuresis and antinatriuresis in the proximal and distal parts of the human nephron. Investigations in acute and chronic bumetanide treatment. Staalsen NH, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):1222–8

The effect of loop diuretics on Cl– transport in smooth muscle of the guinea–pig vas deferens and taenia from the caecum. Aickin CC, et al. **J Physiol (Lond)** 1990 Feb; 421:33–53

Diuretic effect of bumetanide in isolated perfused kidneys of Milan hypertensive rats. Salvati P, et al. **Kidney Int** 1990 Apr;37(4):1084–9

Effects of bumetanide and ouabain on lithium transport in the distal nephron of dogs. Stokke ES, et al. **Kidney Int Suppl** 1990 Mar;28:S71–4

Pharmacology and clinical application of diuretics: focus on torasemide. Satellite symposium. 3rd International Conference on Diuretics Mexico City, Mexico, April 2–7, 1989. **Klin Wochenschr** 1990 Feb;24(3 Suppl):1–20

Vascular relaxing effects of bumetanide. Copello J, et al. **Methods Find Exp Clin Pharmacol** 1989 Oct;11(10):613–9

Erythrocyte sodium and potassium transport systems during longterm administration of the diuretic xipamide in men. Lijnen P, et al. **Methods Find Exp Clin Pharmacol** 1989

Sep;11(9):587–94
Metabolic effects on indapamide [letter; comment] Waal-Manning HJ. N Z Med J 1990 Jan 24;103(882):20 Comment on: N Z Med J 1989 Oct 25;102(878):566.
K(+)-induced swelling of vestibular dark cells is dependent on Na+ and Cl- and inhibited by piretanide. Wangemann P, et al. Pflugers Arch 1990 May;416(3):262–9
Effects of intravenous bumetanide administration on renal haemodynamics and proximal and distal tubular sodium reabsorption in conscious rats. Shalmi M, et al. Pharmacol Toxicol 1989 Oct;65(4):313–7
Bumetanide and cerebrospinal fluid acid–base variables during acute CO2 elevation. Freidel JF, et al. Respir Physiol 1990 Jan;79(1):91–100
[Cicletanine tolerance in hypertensive patients with metabolic disorders] Passa P. Arch Mal Coeur 1989 Nov;82 Spec No 4:135–8 (Eng. Abstr.) (Fre)
[Changes in the urine composition induced by indapamide in subjects with recurrent calcic calculosis: a possible alternative to thiazide diuretics] Elia GF, et al. Ann Ital Med Int 1987 Apr–Jun;2(2):94–9 (Eng. Abstr.) (Ita)
[Applications of ion channel blockers, carrier inhibitors and ionophores to transport study] Fukuhara Y, et al. Nippon Rinsho 1989 Jul;47(7):1493–506 (Jpn)

THERAPEUTIC USE

Drugs recently released in Belgium. Torasemide, nalbuphine, imipenem–cilastatin. Harvengt C. Acta Clin Belg 1987; 42(4):298–302
A symposium: Indapamide and antihypertensive strategy. April 28, 1989, Barcelona, Spain. Proceedings. Am J Cardiol 1990 May 2;65(17):1H–80H
Clinical efficacy and quality of life with indapamide alone or in combination with beta blockers or angiotensin-converting enzyme inhibitors. Athanassiadis DI, et al. Am J Cardiol 1990 May 2;65(17):62H–66H
Beneficial effects of indapamide on lipoproteins and apoproteins in ambulatory hypertensive patients. Aubert I, et al. Am J Cardiol 1990 May 2;65(17):77H–80H (47 ref.)
Cardiovascular protective properties of indapamide. Campbell DB, et al. Am J Cardiol 1990 May 2; 65(17):11H–27H (142 ref.)
Efficacy of antihypertensive treatment with indapamide in patients with noninsulin-dependent diabetes and persistent microalbuminuria. Gambardella S, et al. Am J Cardiol 1990 May 2;65(17):46H–50H
Effects of indapamide on left ventricular mass and function in systemic hypertension with left ventricular hypertrophy. Komajda M, et al. Am J Cardiol 1990 May 2; 65(17):37H–42H
Long-term effects of indapamide: final results of a two-year Italian multicenter study in systemic hypertension. Leonetti G, et al. Am J Cardiol 1990 May 2;65(17):67H–71H
Twenty-four-hour blood pressure monitoring and effects of indapamide. Ocon J, et al. Am J Cardiol 1990 May 2; 65(17):58H–61H
Afterload reduction with vasodilators and diuretics decreases mitral regurgitation during upright exercise in advanced heart failure [see comments] Stevenson LW, et al. J Am Coll Cardiol 1990 Jan;15(1):174–80 Comment in: J Am Coll Cardiol 1990 Jan;15(1):181–3.
Hemodynamic and humoral effects of chronic antihypertensive treatment with fenquizone: importance of aldosterone response. Costa FV, et al. J Clin Pharmacol 1990 Mar;30(3):254–61
Hypertension and micro-albuminuria in diabetic patients taking indapamide. Janka HU, et al. J Hypertens Suppl 1989 Dec;7(6):S316–7
Comparison of slow-release piretanide and bendroflumethiazide in the treatment of mild to moderate hypertension. Hegbrant J, et al. J Int Med Res 1989 Sep–Oct;17(5):426–34
An open, randomized comparative study of a low-strength frusemide/amiloride combination and bumetanide/potassium chloride in the treatment of mild congestive cardiac failure. Latta D, et al. J Int Med Res 1990;18 Suppl 2:10B–16B
Renal and hemodynamic responses to bumetanide in hypertension: effects of nitrendipine. Wilcox CS, et al. Kidney Int 1989 Oct;36(4):719–25
Metolazone in treatment of severe refractory congestive cardiac failure [see comments] Kiyingi A, et al. Lancet 1990 Jan 6;335(8680):29–31 Comment in: Lancet 1990 Apr 14;335(8694):922–3. Comment in: Lancet 1990 Apr 28;335(8696):1031–2.
Metolazone for severe dilated cardiomyopathy refractory to conventional therapy [letter; comment] Kröger N, et al. Lancet 1990 Apr 28;335(8696):1031–2 Comment on: Lancet 1990 Jan 6;335(8680):29–31.
Is indapamide (Natrilix) 2.5 mg a diuretic? [letter] [see comments] Young BA. N Z Med J 1989 Oct 25; 102(878):566 Comment in: N Z Med J 1990 Jan 24;103(882):20.
Torasemide, a new loop diuretic, in patients with chronic renal failure. Russo D, et al. Nephron 1990;55(2):141–5
Quality of life—treatment of hypertension. The role of indapamide. Louis WJ, et al. S Afr Med J 1989 Oct 7; Suppl:26–7
Hypertension in diabetes: effect of indapamide on glucose tolerance in diabetic hypertensive patients. Shaw KM. S Afr Med J 1989 Oct 7;Suppl:18–21
[Antihypertensive treatment: a combination of delapril, a new ACE-inhibitor, and indapamide] Coruzzi P, et al. Clin Ter 1990 Jan 15;132(1):45–9 (Eng. Abstr.) (Ita)
[Metolazone in the treatment of refractory heart insufficiency. Experience of 10 cases] Kirancumar, et al. Rev Port Cardiol 1989 Nov;8(11):775–8 (Eng. Abstr.) (Por)

URINE

Analysis of bumetanide in human urine by high-performance liquid chromatography with fluorescence detection and gas chromatography/mass spectrometry. Gradeen CY, et al. J Anal Toxicol 1990 Mar–Apr;14(2):123–6

DIURETICS, THIAZIDE

Interaction of some benzothiadiazine diuretics with beta-cyclodextrin. Abdel-Rahman SI, et al. Acta Pharm Hung 1990 May;60(2–3):69–75

ADMINISTRATION & DOSAGE

Spironolactone and altizide versus converting enzyme inhibitor (enalapril). Grünfeld JP, et al. Am J Cardiol 1990 Jun 19;65(23):28K–32K
European experience with spironolactone and thiazide diuretic as antihypertensive therapy [editorial] Lauler DP. Am J Cardiol 1990 Jun 19;65(23):18K–19K
Spironolactone and altizide used in combination with enalapril: twenty-four-hour ambulatory recording of blood pressure. Poncelet P, et al. Am J Cardiol 1990 Jun 19; 65(23):33K–35K
Aldactazine/captopril combination, safe and effective in mild to moderate systemic hypertension: report on a multicenter study of 967 patients. Schohn DC, et al. Am J Cardiol 1990 Jun 19;65(23):4K–6K
Calcium channel blockers as second-line therapy in thiazide-resistant hypertension [letter] Collart F, et al. Arch Intern Med 1990 Aug;150(8):1755, 1758, 1760
A comparison of the haemodynamic and hormonal effects of low and conventional dose cyclopenthiazide in normal volunteers. McVeigh GE, et al. Eur J Clin Pharmacol 1990; 38(4):351–7
The effects of thiazides plus calcium channel blockers [letter] Cappuccio FP, et al. JAMA 1990 Aug 22–29;264(8):971–3
Thiazide diuretics, beta-blockers, and coronary heart disease [letter; comment] Bruce R, et al. Lancet 1990 Jun 23; 335(8704):1534–5 Comment on: Lancet 1990 Apr 7;335(8693):827–38.
[Long-term efficacy and side effect profile of a low-dose bemetizid-triamterene combination in patients with essential hypertension] Fritschka E, et al. Med Klin 1989 Nov 15;84(11):526–33 (Eng. Abstr.) (Ger)

ADVERSE EFFECTS

Lipid abnormalities and diuretics. Moser M. Am Fam Physician 1989 Oct;40(4):213–20 (45 ref.)
Ulceration of the small bowel associated with thiazide and potassium therapy. Report of nine cases. Tyson WT Jr, et al. Am Surg 1966 Mar;32(3):161–4
Mild hypertension and cardiovascular risks [letter; comment] Burris JF. Ann Intern Med 1990 Jun 1;112(11):879 Comment on: Ann Intern Med 1990 Jan 15;112(2):89–95.
Thiazides in the 1990s. Orme M. BMJ 1990 Jun 30; 300(6741):1668–9 (27 ref.)
Thiazide diuretics: how real are the concerns? [editorial] Freis ED. Hosp Pract [Off] 1990 May 30;25(5A):8, 13–4
Use of salt substitutes in the treatment of diuretic-induced hypokalemia [see comments] Hueston WJ. J Fam Pract 1989 Dec;29(6):623–6 Comment in: J Fam Pract 1990 Jun;30(6):632, 717.
Is indapamide (Lozol) safer than a thiazide? Med Lett Drugs Ther 1989 Nov 17;31(805):103

PHARMACOLOGY

Effects of a potassium-sparing/thiazide diuretic combination on cardiovascular reactivity to vasopressor agents. Schohn DC, et al. Am J Cardiol 1990 Jun 19;65(23):14K–17K
Effect of thiazide treatment on biliary lipid composition in healthy volunteers. Angelin B. Eur J Clin Pharmacol 1989; 37(1):95–6
Angiotensin converting enzyme inhibitors. 10. Aryl sulfonamide substituted N-[1-carboxy-3-phenylpropyl]-L-alanyl-L-proline derivatives as novel antihypertensives. Mencel JJ, et al. J Med Chem 1990 Jun;33(6):1606–15
Metabolic effects on indapamide [letter; comment] Waal-Manning HJ. N Z Med J 1990 Jan 24;103(882):20 Comment on: N Z Med J 1989 Oct 25;102(878):566.
Lipoproteins during antihypertensive therapy. Study supported by the Swiss National Science Foundation. Ferrari P, et al. S Afr Med J 1989 Oct 7;Suppl:13–7 (51 ref.)

POISONING

Hyperkalaemia exacerbated by amitryptiline following overdose of potassium-thiazide combination. Hutchison SM. Br J Clin Pract 1989 Jun;43(6):224–5

THERAPEUTIC USE

Clinical update: spironolactone and altizide as monotherapy in systemic hypertension. Ducymes JM. Am J Cardiol 1990 Jun 19;65(23):20K–23K
Spironolactone and altizide in systemic hypertension: ambulatory multicenter study. Sternon J. Am J Cardiol 1990 Jun 19;65(23):24K–27K
Beta-blockers and diuretics. The HAPPHY and MAPHY studies. Berglund G. Clin Exp Hypertens [A] 1989; 11(5–6):1137–48
First-dose effects of enalapril and atenolol upon blood pressure and cerebral blood flow in patients with mild hypertension on diuretic therapy. Kamlow F, et al. J Hum Hypertens 1990 Jun;4(3):281–5
An open, parallel group study comparing a frusemide/amiloride diuretic and a diuretic containing cyclopenthiazide with sustained release potassium in the treatment of congestive cardiac failure—a multicentre general practice study. Allman S, et al. J Int Med Res 1990;18 Suppl 2:17B–23B
Long-term treatment with slow-release frusemide compared with thiazide treatment in arterial hypertension. Jørgensen H, et al. J Int Med Res 1989 Nov–Dec;17(6):552–9
Thiazide diuretic agents and the incidence of hip fracture. LaCroix AZ, et al. N Engl J Med 1990 Feb 1;322(5):286–90
Is indapamide (Natrilix) 2.5 mg a diuretic? [letter] [see comments] Young BA. N Z Med J 1989 Oct 25; 102(878):566 Comment in: N Z Med J 1990 Jan 24;103(882):20.
Long-term medical management of aldosterone-producing adenoma. Bornemann M. South Med J 1990 Apr; 83(4):461–2

DIURNAL RHYTHM see CIRCADIAN RHYTHM

DIURON

Tumour initiatory activity of a herbicide diuron on mouse skin [published erratum appears in Cancer Lett 1990 Jul 16;52(2):161] Antony M, et al. Cancer Lett 1989 Nov 30; 48(2):125–8

METABOLISM

HPLC analysis of diuron and metabolites in blood and urine. Van Boven M, et al. J Anal Toxicol 1990 Jul–Aug; 14(4):231–4

PHARMACOLOGY

Nuclearly inherited diuron-resistant mutations conferring a deficiency in the NADH—or succinate—ubiquinone oxidoreductase activity in Saccharomyces cerevisiae. Meunier B, et al. Eur J Biochem 1989 Oct 1;184(3):651–6
Dose-related induction of rat hepatic drug-metabolizing enzymes by diuron and chlorotoluron, two substituted phenylurea herbicides. Schoket B, et al. Toxicol Lett 1990 Jan;50(1):1–7
Anacystis mutants with different tolerances to DCMU-type herbicides show differences in architecture and dynamics of the photosynthetic apparatus, depending on site and mode of the amino acid exchanges in the D 1 protein. Koenig F. Z Naturforsch [C] 1990 May;45(5):446–51

TOXICITY

Effects of diuron and fluometuron metabolites on the growth and fiber quality of cotton (Gossypium hirsutum). Moorman TB, et al. Bull Environ Contam Toxicol 1990 Feb;44(2):260–7

DIVALPROEX see VALPROATE

DIVERGENT STRABISMUS see EXOTROPIA

DIVERTICULITIS

Diverticular disease of the appendix. Lock JH, et al. South Med J 1990 Mar;83(3):350

COMPLICATIONS

Perforated jejunal diverticulitis. Scrimgeour D, et al. Br J Clin Pract 1989 Apr;43(4):165–6
Caecovesical fistula secondary to diverticulitis. Stephenson BM, et al. Br J Urol 1990 Jul;66(1):102–3
Loss prevention case study. A monument to failure. Avery JK. J Arkansas Med Soc 1990 Feb;86(9):357
Intracranial abscess complicating diverticulitis with CT scan mimicking primary glioma. Dixon AR, et al. Postgrad Med J 1989 Aug;65(766):565–7
Endoscopic sphincterotomy in patients with gallbladder in situ: the influence of periampullary duodenal diverticula. Shemesh E, et al. Surgery 1990 Feb;107(2):163–6

DIAGNOSIS

Uncomplicated acute diverticulitis of the cecum and ascending colon: sonographic findings in 18 patients. Wada M, et al. AJR Am J Roentgenol 1990 Aug;155(2):283–7
Acute Meckel's diverticulitis: diagnosis by ultrasonography. Larson JM, et al. JCU 1989 Nov–Dec;17(9):682–4

EPIDEMIOLOGY

Solitary caecal diverticulitis. Recognition and management. al-Hilaly MA, et al. Acta Chir Scand 1989 Sep;155(9):475–8

PATHOLOGY

Peridiverticulitis of the appendix: an unusual ultrasonic "target lesion". Skaane P, et al. **J Clin Gastroenterol** 1990 Jun;12(3):353–6

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 25–1990. Abdominal pain and vomiting in a 64-year-old man with chronic malabsorption and diarrhea. **N Engl J Med** 1990 Jun 21; 322(25):1796–806

[The pathology of Meckel's diverticulum] Dimitrov D, et al. **Khirurgiia (Sofiia)** 1989;42(3):28–33 (Eng. Abstr.) (Bul)

[Campylobacter pylori in heterotopic gastric mucosa in Meckel's diverticulum] Stolte M, et al. **Leber Magen Darm** 1989 Jul;19(4):209–10 (Eng. Abstr.) (Ger)

[Jejunal diverticulitis] Fiane AE. **Tidsskr Nor Laegeforen** 1990 Feb 20;110(5):595 (Eng. Abstr.) (Nor)

RADIOGRAPHY

Perforating duodenal diverticulitis. Pugash RA, et al. **Gastrointest Radiol** 1990 Spring;15(2):156–8

CT demonstration of inflamed Meckel diverticulum. Nigogosyan M, et al. **J Comput Assist Tomogr** 1990 Jan–Feb;14(1):140–2

Radiology case of the month. CT scan quiz. Diverticulitis, with pericolic abscess and fistula. Rohrbach MA, et al. **J Tenn Med Assoc** 1989 Nov;82(11):601–2

Esophageal intramural pseudodiverticulitis. Kim S, et al. **Radiology** 1989 Nov;173(2):418

[Importance of the clinico-radiologic diagnosis of cecal diverticulitis (letter)] Gimeno Solsona F, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):166–7 (Spa)

SURGERY

Percutaneous drainage of a diverticular abscess can make colostomy unnecessary in selected cases. Sparks FC, et al. **Conn Med** 1990 Jun;54(6):305–7

[Sigmoid diverticular pathology. Apropos of a homogeneous series of 82 cases] Clot JP, et al. **Ann Chir** 1990;44(1):39–43 (Eng. Abstr.) (Fre)

[Surgical treatment of urethral diverticula. Retrospective critical study: value of surgery in the ventral-decubital position] Zerbib M, et al. **Ann Urol (Paris)** 1989; 23(4):349–51 (Fre)

[Diagnosis and therapy of inflammatory cecal diverticula] Lehnert T, et al. **Zentralbl Chir** 1989;114(20):1337–40 (Eng. Abstr.) (Ger)

[Management of Meckel's diverticulum] Grabski RS, et al. **Wiad Lek** 1989 Feb 1;42(3):139–42 (Eng. Abstr.) (Pol)

[Surgical treatment of Meckel's diverticulum] Toropov IuD. **Khirurgiia (Mosk)** 1989 Oct;(10):77–9 (Eng. Abstr.) (Rus)

DIVERTICULITIS, COLONIC

COMPLICATIONS

Gangrenous perforating uteritis. Shaffer JO. **Am Surg** 1975 Jan;41(1):45–7

Erythema nodosum and diverticulitis [letter] Ruiz-Rodriguez R, et al. **Arch Dermatol** 1990 Sep;126(9):1242–3

Diverticular complications of renal failure. Galbraith P, et al. **Gastrointest Radiol** 1990 Summer;15(3):259–62

[Perforated diverticulitis of the colon] Garibdzhanian LL, et al. **Sov Med** 1989;(11):45–7 (26 ref.) (Rus)

[Acute diverticulitis and fever of unknown origin (letter)] Graña Gil J, et al. **Rev Clin Esp** 1990 Apr;186(6):308–9 (Spa)

DIAGNOSIS

Uncomplicated acute diverticulitis of the cecum and ascending colon: sonographic findings in 18 patients. Wada M, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):283–7

The value of sonography in the diagnosis of acute diverticulitis of the colon. Wilson SR, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1199–202

Diverticular disease in the elderly. Cheskin LJ, et al. **Gastroenterol Clin North Am** 1990 Jun;19(2):391–403 (15 ref.)

Can sonography diagnose acute colonic diverticulitis in patients with acute intestinal inflammation? A prospective study. Verbanck J, et al. **JCU** 1989 Nov–Dec;17(9):661–6

[Acute diverticulitis] de Boer HH. **Ned Tijdschr Geneeskd** 1989 Sep 2;133(35):1733–6 (22 ref.) (Dut)

[Sonography in the diagnosis and follow-up of colonic diverticulitis] Herzog P. **Z Gastroenterol** 1989 Aug; 27(8):426–31 (Eng. Abstr.) (Ger)

[Diverticulitis of the right colon. Description of our experience] Viti M, et al. **Minerva Chir** 1990 Apr 30; 45(8):607–10 (16 ref.) (Eng. Abstr.) (Ita)

DRUG THERAPY

[Conservative treatment of simple, uncomplicated diverticulitis. Preliminary study for evaluating the effectiveness of a method of topical therapy: rectal perfusion] Ferraris R, et al. **Minerva Chir** 1989 Sep 15; 44(17):1905–10 (Eng. Abstr.) (Ita)

PATHOLOGY

Colonic diverticulitis-related exuberant granulomatous reaction in a patient with sarcoidosis. Naschitz JE, et al. **Dig Dis Sci** 1990 Apr;35(4):533–8 (29 ref.)

RADIOGRAPHY

Limitations in the CT diagnosis of acute diverticulitis: comparison of CT, contrast enema, and pathologic findings in 16 patients. Balthazar EJ, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):281–5

Comparison of computed tomography and contrast enema evaluation of diverticulitis. Smith TR, et al. **Dis Colon Rectum** 1990 Jan;33(1):1–6

Sigmoid diverticulitis: diagnostic role of CT—comparison with barium enema studies. Cho KC, et al. **Radiology** 1990 Jul;176(1):111–5

[Computed tomography of colonic diverticulitis] Doringer E, et al. **ROFO** 1990 Jan;152(1):76–9 (Eng. Abstr.) (Ger)

RADIONUCLIDE IMAGING

99m-technetium-HmPAO-labelled leucocytes in the diagnosis of acute colonic diverticulitis. Lindahl J, et al. **Acta Chir Scand** 1989 Sep;155(9):479–82

SURGERY

Reassessment of primary resection of the perforated segment for severe colonic diverticulitis. Peoples JB, et al. **Am J Surg** 1990 Mar;159(3):291–3; discussion 294

Preoperative percutaneous drainage of diverticular abscesses. Stabile BE, et al. **Am J Surg** 1990 Jan;159(1):99–104; discussion

The double stapling technique for low anterior resection. Results, modifications, and observations. Griffen FD, et al. **Ann Surg** 1990 Jun;211(6):745–51; discussion 751–2

Primary resection and anastomosis for treatment of acute diverticulitis. Alanis A, et al. **Dis Colon Rectum** 1989 Nov; 32(11):933–9

[Acute diverticulitis (letter)] de Graaff P. **Ned Tijdschr Geneeskd** 1989 Oct 28;133(43):2142 (Dut)

[Surgical treatment of perforated diverticular sigmoiditis. A retrospective study apropos of 45 cases] Renier JF, et al. **J Chir (Paris)** 1989 Nov;126(11):567–74 (45 ref.) (Eng. Abstr.) (Fre)

[Acute diverticulitis with diffuse peritonitis—can one accept the recommendation for a single stage resection with primary anastomosis without reservation? (comment)] Gall F. **Langenbecks Arch Chir** 1989;374(5):257–8 Comment on: Langenbecks Arch Chir 1989;374(5):259–66. (Ger)

[Prognostic factors for survival in perforated colonic diverticulitis] Pratschner TH, et al. **Langenbecks Arch Chir** 1989;374(5):280–3 (Eng. Abstr.) (Ger)

[Recommendation for primary resection with primary anastomosis in complicated sigmoid diverticulitis. Report of experiences of the Herford Surgical Clinic 1973 to 1986 (see comments)] Wedell J, et al. **Langenbecks Arch Chir** 1989;374(5):259–66 (Eng. Abstr.) Comment in: Langenbecks Arch Chir 1989;374(5):257–8. (Ger)

[Abdominal actinomycosis. Ileo-vaginal fistula as a clinical manifestation. Case report and review of the literature] Meier-Böni L, et al. **Wien Klin Wochenschr** 1990 Jan 5; 102(1):21–3 (17 ref.) (Eng. Abstr.) (Ger)

[Colonic diverticulitis] Riemann JF. **Z Gastroenterol [Verh]** 1990 Apr;25:104–6 (20 ref.) (Ger)

[Therapy standards in surgical gastroenterology. Colonic diverticulitis] Rothmund M, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:107–9 (14 ref.) (Ger)

[Indications for primary anastomosis following resection of acute diverticulitis of the large intestine] Dinstl K, et al. **Zentralbl Chir** 1989;114(13):836–9 (Eng. Abstr.) (Ger)

[Perforated diverticulitis of the colon. Problems of diagnosis and surgical tactics] Balducci D, et al. **Minerva Chir** 1989 Sep 30;44(18):1995–2000 (Eng. Abstr.) (Ita)

[Surgical tactics in acute colonic diverticulitis] Timerbulatov VM, et al. **Sov Med** 1989;(10):91–3 (Rus)

THERAPY

Colonic diverticulitis. Recognizing and managing its presentations and complications. Ertan A. **Postgrad Med** 1990 Sep 1;88(3):67–72; 77 (30 ref.)

DIVERTICULOSIS

Diverticula; diverticuli [letter] Ferry JF. **Arch Ophthalmol** 1989 Nov;107(11):1566

[Bladder diverticula] Abid I, et al. **Tunis Med** 1990 Mar; 68(3):181–6 (15 ref.) (Eng. Abstr.) (Fre)

[Multiple ureteral diverticula: a case report] Chiba K, et al. **Hinyokika Kiyo** 1989 Aug;35(8):1405–7 (11 ref.) (Eng. Abstr.) (Jpn)

[Diverticulosis of the gastrointestinal tract and its complications] Catić D, et al. **Med Arh** 1987;41(3):121–4 (Eng. Abstr.) (Scr)

COMPLICATIONS

Congenital anterior urethral diverticulum and recurrent urinary tract infection. Igarashi T, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Aug;31(4):493–5

Diverticulum of the mitral valve complicating bacterial endocarditis: diagnosis by transesophageal echocardiography. Teskey RJ, et al. **Am Heart J** 1989 Nov; 118(5 Pt 1):1063–5

Diverticular disease of the jejunum and its complications. Ross CB, et al. **Am Surg** 1990 May;56(5):319–24

Case of simultaneous diverticulosis, lipomatosis and volvulus of the small intestine. Neilson D, et al. **Br J Surg** 1990 Jan;77(1):105

Pyelocaliceal diverticula and rupture of the kidney. Costas S, et al. **Br J Urol** 1990 Jan;65(1):111–3

Lithotripsy for calculi in caliceal diverticula? Ritchie AW, et al. **Br J Urol** 1990 Jul;66(1):6–8

Periampullary diverticula predispose to primary rather than secondary stones in the common bile duct. Hall RI, et al. **Endoscopy** 1990 May;22(3):127–8

Calculi in female urethral diverticulum. Hansen BJ, et al. **Int Urol Nephrol** 1989;21(6):617–20

Urinary bladder diverticula and the Ehlers-Danlos syndrome in children. Levard G, et al. **J Pediatr Surg** 1989 Nov; 24(11):1184–6 (14 ref.)

Spontaneous rupture of a bladder diverticulum. Keeler LL, et al. **J Urol** 1990 Feb;143(2):349–51 (11 ref.)

Wolff-Parkinson-White syndrome associated with a coronary sinus diverticulum: ablative surgical approach. McGiffin DC, et al. **PACE** 1990 Aug;13(8):966–9

Perforated jejunal diverticulum with multiple hepatic abscesses. Hoover EL, et al. **South Med J** 1990 Jan; 83(1):54–6

Neuropathic bladder in ankylosing spondylitis with spinal diverticula. Haddad FS, et al. **Urology** 1990 Apr; 35(4):313–6

[Juxtapapillary diverticula and biliary lithiasis: a causal relation?] Legoux JJ. **Gastroenterol Clin Biol** 1990; 14(2):196–7 (Fre)

[Cholestasis caused by an intradiverticular bezoar. Endoscopic treatment] Seyrig JA, et al. **Gastroenterol Clin Biol** 1989 Aug-Sep;13(8–9):741–3 (Eng. Abstr.) (Fre)

[Diverticular calculi of the kidney calices—extracorporeal shockwave lithotripsy, percutaneous extraction or open surgery] Kriegmair M, et al. **Urologe [A]** 1990 Jul; 29(4):204–8 (Eng. Abstr.) (Ger)

[Rare digestive hemorrhage caused by diverticular pathology of the small intestine] Agnifili A, et al. **Minerva Chir** 1990 May 31;45(10):721–4 (Eng. Abstr.) (Ita)

[A case of transitional cell carcinoma in a pyelocaliceal diverticulum] Adachi T, et al. **Hinyokika Kiyo** 1989 Aug; 35(8):1383–6 (9 ref.) (Eng. Abstr.) (Jpn)

[Female urethral diverticulum calculi: a case report] Shiraishi K, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1947–9 (Eng. Abstr.) (Jpn)

[Acute pancreatitis secondary to intraluminal duodenal diverticulum—a case report] Fujiwara S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1340–4 (Jpn)

[A case of multiple jejunal diverticula with strongyloidiasis and malabsorption syndrome] Shikiya K, et al. **Rinsho Hoshasen** 1990 Apr;35(4):521–4 (34 ref.) (Eng. Abstr.) (Jpn)

[Perforated duodenal diverticulum: a report of 2 cases] Steinman E, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 May-Jun;44(3):121–3 (Eng. Abstr.) (Por)

[Left ventricular diverticulum at the subaortic level] Peteiro J, et al. **Rev Port Cardiol** 1989 Dec;8(12):869–70 (Eng. Abstr.) (Por)

[Esophageal cyst, accessory pulmonary lobe and duodenal diverticulum] Cherviak PI, et al. **Klin Khir** 1989;(10):67 (Rus)

[Diverticulosis of the duodenum as a rare cause of recurrent intestinal hemorrhage] Fomichev AA. **Klin Khir** 1990;(2):54 (Rus)

[Hiatal hernia associated with chronic calculous cholecystitis and appendiceal diverticulosis] Galimov OV. **Klin Khir** 1989;(10):66 (Rus)

[Complicated sliding inguino-scrotal hernia] Pustil'nik MI, et al. **Klin Khir** 1990;(2):51 (Rus)

[Extraperitoneal bladder rupture caused by diverticular pathology] Castiñeiras Fernández J, et al. **Actas Urol Esp** 1989 Jul-Aug;13(4):276–80 (23 ref.) (Eng. Abstr.) (Spa)

[Clinical significance of juxtapapillary duodenal diverticula] González JA, et al. **GEN** 1988 Jul-Sep;42(3):91–4 (Eng. Abstr.) (Spa)

[Isolated diverticulum of the cecum (letter)] Cabeza Lamban F, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):165–6 (Spa)

[Single diverticulum of perforated cecum. Report of 5 cases] Dorfman S, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):147–8 (Eng. Abstr.) (Spa)

CONGENITAL

Isolated congenital left ventricular diverticulum: echocardiographic features in a fetus. Kitchiner D, et al. **Am Heart J** 1990 Jun;119(6):1435–7

Congenital anterior urethral valves and diverticula—analysis of 50 cases. Huang CJ, et al. **Ann Acad Med Singapore** 1989 Nov;18(6):665–8

Congenital intrathoracic left ventricular diverticulum in an adult. Suilen C, et al. **Chest** 1990 Sep;98(3):750–1

Congenital urethral and vesical diverticula allied to blind-ending ureters. Orikasa S, et al. **Urology** 1990 Feb; 35(2):137–41

[Intraduodenal development of diverticula of the lower choledochus. Apropos of 2 cases] Bona S, et al. **Ann Chir** 1989;43(7):542–6 (Eng. Abstr.) **(Fre)**

[Congenital urethrocele in man. Apropos of 10 personal cases] Anquetil R. **Ann Urol (Paris)** 1990;24(3):252–5 (Eng. Abstr.) **(Fre)**

[A case of isolated congenital diverticulum of the left ventricle] Hirooka S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):687–91 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Congenital bladder diverticulum as a cause of acute urinary retention] Porras V, et al. **Arch Esp Urol** 1990 Mar; 43(2):182–4 (Eng. Abstr.) **(Spa)**

[Congenital ventricular diverticula. Presentation of 6 cases] Calderón J, et al. **Arch Inst Cardiol Mex** 1989 Jul–Aug; 59(4):383–8 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Magnetic resonance imaging of arachnoid diverticula associated with cauda equina syndrome in ankylosing spondylitis. Sparling MJ, et al. **J Rheumatol** 1989 Oct; 16(10):1335–7

[Urethral diverticula in women. Apropos of 7 cases] Rossi D, et al. **Ann Urol (Paris)** 1989;23(4):352–3 **(Fre)**

[Cecal diverticulum and appendicitis. A diagnostic pitfall (letter)] Godquin B. **J Chir (Paris)** 1989 Nov;126(11):625–6 **(Fre)**

[Intraluminal duodenal diverticula (review of the literature)] Ponomerev AA. **Khirurgiia (Mosk)** 1990 Mar;(3):124–8 (52 ref.) **(Rus)**

[Diverticulum of the anterior urethra or syringocele of the Cowper glands. Apropos of a case] Rodó Salas J, et al. **An Esp Pediatr** 1989 Dec;31(6):605–6 **(Spa)**

[Intra-diverticular adenocarcinoma of the urethra in women] Jimenez de León J, et al. **Arch Esp Urol** 1989 Nov–Dec; 42(9):931–5 (Eng. Abstr.) **(Spa)**

[Juxtapapillary duodenal diverticula] Lauretta R, et al. **GEN** 1988 Jul–Sep;42(3):95–8 (Eng. Abstr.) **(Spa)**

[Diverticulum of the right ventricle] Romero JA, et al. **Rev Esp Cardiol** 1989 Dec;42(10):689–92 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Diverticular disease of the colon in Ibadan, Nigeria. Ogunbiyi OA. **Afr J Med Med Sci** 1989 Dec;18(4):241–4

ETIOLOGY

Tracheostoma diverticulum following tracheoesophageal puncture. Hoffman HT, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1074–6

Unusual complication of spongiosum–cavernosum shunt in the treatment of priapism: bilateral diverticuli of corpus cavernosum. Küpeli S, et al. **Br J Urol** 1990 Aug; 66(2):213–4

[The role of uninhibited bladder in antireflux surgery. Special reference to reflux recurrence and diverticulum formation] Gotoh T, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Oct; 80(10):1451–8 (Eng. Abstr.) **(Jpn)**

[A case of large traction diverticulum caused by adhesion with undescended testis] Watanabe H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Jan;87(1):119–21 **(Jpn)**

[Giant diverticulum of the urethra] Pachman A, et al. **Wiad Lek** 1989 May 1;42(9):604–7 (Eng. Abstr.) **(Pol)**

[Duodenal diverticulum associated with hiatal hernia after vagotomy] Makhovskiĭ VZ, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):102 **(Rus)**

[Intra-diverticular neoplasms of the bladder. Apropos of a squamous carcinoma] Pellice C Jr, et al. **Actas Urol Esp** 1990 Mar–Apr;14(2):161–2 (Eng. Abstr.) **(Spa)**

METABOLISM

Vasoactive intestinal polypeptide levels in sigmoid colon in idiopathic constipation and diverticular disease. Milner P, et al. **Gastroenterology** 1990 Sep;99(3):666–75

MICROBIOLOGY

Non-alcoholic steatohepatitis associated with small intestinal diverticulosis and bacterial overgrowth. Nazim M, et al. **Hepatogastroenterology** 1989 Oct;36(5):349–51

The duodenal bacterial flora in the region of papilla of Vater in patients with and without duodenal diverticula. Skar V, et al. **Scand J Gastroenterol** 1989 Aug;24(6):649–56

PATHOLOGY

Diverticular bile duct lesion in chronic active hepatitis. Vyberg M. **Hepatology** 1989 Nov;10(5):774–80

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 25–1990. Abdominal pain and vomiting in a 64-year-old man with chronic malabsorption and diarrhea. **N Engl J Med** 1990 Jun 21; 322(25):1796–806

Abnormal bilateral diverticula of the buccal mucosa. Yu MZ. **Oral Surg Oral Med Oral Pathol** 1989 Oct;68(4):455–6

Ileal diverticulosis in a black patient. A case report. Madiba TE, et al. **S Afr J Surg** 1990 Mar;28(1):30–2

Diverticulosis of the appendix. Sharp JF, et al. **Scott Med J** 1990 Apr;35(2):50–1

Massive bleeding in a Zenker's diverticulum. Hendren WG, et al. **South Med J** 1990 Mar;83(3):362

Spontaneous rupture of pyelocaliceal diverticulum. Hosomi M, et al. **Urol Radiol** 1989;11(3):136–8

[Compression pneumatocele of the lacrimal sac] Rochels R, et al. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):174–6 (Eng. Abstr.) **(Ger)**

[Branching defects and mucosal diverticulosis of the bronchi in children as factors predisposing to the development of chronic inflammatory processes in the lungs] Esipova IK, et al. **Arkh Patol** 1990;52(2):6–10 (Eng. Abstr.) **(Rus)**

[Syringoceles of Cowper's glands in children] Bethencourt O, et al. **Arch Esp Urol** 1989 Nov–Dec;42(9):889–92 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Motor pattern of the sphincter of Oddi in patients with juxtapapillary diverticula. Ponce J, et al. **J Clin Gastroenterol** 1990 Apr;12(2):162–5

RADIOGRAPHY

Spinal arachnoid diverticula (report of a case and review of the literature). Kaushik H, et al. **Australas Radiol** 1989 Aug;33(3):296–9

CT diagnosis of perforated duodenal diverticulum. Goodman P, et al. **Clin Imaging** 1989 Dec;13(4):321–2

Duodenal diverticula: a potential cause of morbidity during cholecystectomy. Sayers RD, et al. **J R Coll Surg Edinb** 1990 Jun;35(3):186–7

Diagnosis of coronary sinus diverticulum in Wolff–Parkinson–White syndrome using coronary angiography. Stamato N, et al. **PACE** 1989 Oct; 12(10):1589–91

Urethral fistula and history of bladder neoplasms [clinical conference] Kavoussi LR, et al. **Urol Radiol** 1989; 11(3):194–7

[Diverticulosis of the distal end of the choledochus demonstrated by retrograde endoscopic cholangiopancreatography. Apropos of 5 case reports] Bastid C, et al. **Acta Gastroenterol Belg** 1989 Jan–Apr; 52(1–2):33–8 (Eng. Abstr.) **(Fre)**

[Intraluminal duodenal diverticulum] Busch HP, et al. **ROFO** 1990 Jan;152(1):103–4 **(Ger)**

[Jejunal pseudo-diverticular hemorrhage] Mickley V. **Schweiz Med Wochenschr** 1989 Jul 11;119(27–28):984–8 (Eng. Abstr.) **(Ger)**

[Duodenal diverticula and organic diseases of the pancreatoduodenal area] Loginov AS, et al. **Ter Arkh** 1989; 61(11):58–9 (Eng. Abstr.) **(Rus)**

[Ureteral diverticula. Apropos of 2 cases] Sanromá Ortuetа I, et al. **Arch Esp Urol** 1989 Jun;42(5):466–8 (Eng. Abstr.) **(Spa)**

SURGERY

Perforated small bowel diverticulosis. Case report. Manouras AJ, et al. **Acta Chir Scand** 1990 Jun–Jul;156(6–7):489–90

Surgical management of duodenal divertica. Trondsen E, et al. **Acta Chir Scand** 1990 May;156(5):383–6

Oesophageal diverticula. Duda M, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;123:189–208 (26 ref.)

Surgical significance of acquired ileal diverticulosis. Wilcox RD, et al. **Am Surg** 1990 Apr;56(4):222–5 (19 ref.)

Anesthesia for Zenker's diverticulum [letter] Cope R, et al. **Anesth Analg** 1990 Sep;71(3):312

Surgical treatment of duodenal diverticula associated with symptomatic bacterial overgrowth. Breen KJ, et al. **Aust N Z J Surg** 1989 Oct;59(10):819–21

Surgical therapy of Zenker's diverticulum: low risk and high efficiency. Barthlen W, et al. **Dysphagia** 1990;5(1):13–9 (26 ref.)

Stone formation in a female urethral diverticulum. Review of the literature. Aragona F, et al. **Int Urol Nephrol** 1989; 21(6):621–5 (11 ref.)

Surgical treatment of Zenker's diverticulum. Aggerholm K, et al. **J Laryngol Otol** 1990 Apr;104(4):312–4

Unusual complication of pharyngeal pouch inversion. Kapur TR, et al. **J Laryngol Otol** 1990 Apr;104(4):344–5

Staple gun in the surgery of hypopharyngeal diverticula. Westmore GA. **J Laryngol Otol** 1990 Jul;104(7):553–6

Repair of right aortic arch with aberrant left subclavian artery and left ligamentum arteriosum. Chen CL. **J Pediatr Surg** 1990 Jul;25(7):795–6

Urethral diverticula. Drutz HP. **Obstet Gynecol Clin North Am** 1989 Dec;16(4):923–9 (24 ref.)

Transurethral incision of urethral diverticulum in the female. Miskowiak J, et al. **Scand J Urol Nephrol** 1989;23(3):235–7

[Bladder diverticula combined with bladder carcinoma] Petrov P, et al. **Khirurgiia (Sofiia)** 1989;42(5):85–6 **(Bul)**

[Zenker's diverticulum] Illum P, et al. **Ugeskr Laeger** 1990 Jul 16;152(29):2116–8 (Eng. Abstr.) **(Dan)**

[Splenic artery aneurysm and diverticulum of the small intestine. A rare combination] Isemer FE, et al. **Chirurg** 1990 Jan;61(1):68–70 **(Ger)**

[Measures for reducing the rate of complications in endoscopic surgery of Zenker's diverticulum] Weerda H, et al. **Laryngorhinootologie** 1989 Dec;68(12):675–7 (Eng. Abstr.) **(Ger)**

[Jejunal diverticulum. A rare cause of massive intestinal hemorrhage] Schoucair A, et al. **Zentralbl Chir** 1990; 115(2):107–10 **(Ger)**

[A treatment method of duodenal diverticula] Agzamkhodzhaev SM, et al. **Vestn Khir** 1990 Feb; 144(2):105–6 **(Rus)**

[Surgical choices in peptic ulcer associated with duodenal diverticula] Bugaev AI, et al. **Vestn Khir** 1990 Jan; 144(1):37–9 (Eng. Abstr.) **(Rus)**

[Results of exclusion of the duodenum in diverticulosis] Zemlianoĭ AG, et al. **Vestn Khir** 1990 Feb;144(2):99–103 **(Rus)**

DIVERTICULOSIS, COLONIC

Multiple hollow organ dysplasia in Ehlers–Danlos syndrome. Schippers E, et al. **J Pediatr Surg** 1989 Nov;24(11):1181–3

[Clinical characteristics of diverticular disease of the colon] Balbulović-Telalbašić S. **Med Arh** 1983;37(4):195–7 (Eng. Abstr.) **(Ser)**

COMPLICATIONS

Optimal operative treatment in acute septic complications of diverticular disease. Corder AP, et al. **Ann R Coll Surg Engl** 1990 Mar;72(2):82–6

Corticosteroid-association perforation of colonic diverticula. Arsura EL. **Arch Intern Med** 1990 Jun;150(6):1337–8

Endoscopic injection hemostasis of colonic diverticular bleeding: a case report. Bertoni G, et al. **Endoscopy** 1990 May;22(3):154–5

Diverticular disease of the colon: a risk factor for peritonitis in continuous peritoneal dialysis. Tranaeus A, et al. **Nephrol Dial Transplant** 1990;5(2):141–7

Coexistent Crohn's disease and sigmoid diverticulosis. McCue J, et al. **Postgrad Med J** 1989 Sep;65(767):636–9

[Difficulties in the choice of surgical tactics in perforation of diverticula of the sigmoid colon] Borodianskiĭ VS, et al. **Klin Khir** 1990;(2):49–50 **(Rus)**

[Acute destructive cholecystitis associated with perforated diverticulosis of the colon] Timerbulatov VM, et al. **Vestn Khir** 1989 Sep;143(9):55 **(Rus)**

DIAGNOSIS

Diverticular disease in the elderly. Cheskin LJ, et al. **Gastroenterol Clin North Am** 1990 Jun;19(2):391–403 (15 ref.)

Myoelectric and manometric patterns of human rectosigmoid colon in irritable bowel syndrome and diverticulosis. Katschinski M, et al. **Scand J Gastroenterol** 1990 Jul; 25(7):761–8

ETHNOLOGY

Distribution of diverticular disease [letter; comment] Massoud TF. **Dis Colon Rectum** 1990 Feb;33(2):166 Comment on: Dis Colon Rectum 1989 Mar;32(3):227–9.

ETIOLOGY

The emergence of colonic diverticulosis in urbanised Indians. A report of 23 cases. Kochhar R, et al. **Trop Geogr Med** 1989 Jul;41(3):254–6

PHYSIOPATHOLOGY

Strength of the colon wall in diverticular disease. Watters DA, et al. **Br J Surg** 1990 Mar;77(3):257–9 (34 ref.)

[Motility of the sigmoid in irritable bowel syndrome and colonic diverticulosis] Ritsema GH, et al. **Ned Tijdschr Geneeskd** 1990 Jul 21;134(29):1398–401 (Eng. Abstr.) **(Dut)**

RADIOGRAPHY

Sigmoid colon fistula complicating ovarian cystadenocarcinoma: a rare finding. Honda H, et al. **Gastrointest Radiol** 1990 Winter;15(1):78–81

Bowler-hat sign: a simple principle for differentiating polyps from diverticula. Miller WT Jr, et al. **Radiology** 1989 Dec; 173(3):615–7

SURGERY

Giant sigmoid diverticula. Report of two cases. Scerpella PR, et al. **Arch Surg** 1989 Oct;124(10):1244–6

Emergency surgery for complicated diverticular disease. A five-year experience. Berry AR, et al. **Dis Colon Rectum** 1989 Oct;32(10):849–54

Motility effects of anterior resection of the rectum performed for diverticular disease. Cortesini C, et al. **Ital J Surg Sci** 1989;19(4):369–73

[Diverticular disease of the colon. Concepts to be reviewed for a rational therapeutic approach] Cortesini C, et al. **Clin Ter** 1990 Jan 31;132(2):79–83 (7 ref.) (Eng. Abstr.) **(Ita)**

[Immediate and late results of exclusion of the colon in diverticulosis] Zemlianoĭ IuA, et al. **Vestn Khir** 1989 Jun; 142(6):32–5 (Eng. Abstr.) **(Rus)**

THERAPY

Endoscopic removal of inverted sigmoid diverticulum—is it a dangerous procedure? [letter] Ladas SD, et al. **Endoscopy** 1989 Sep;21(5):243–4

DIVERTICULOSIS, ESOPHAGEAL see **ESOPHAGEAL DIVERTICULA**

DIVERTICULOSIS, GASTRIC see STOMACH DIVERTICULA

DIVING

see related
DECOMPRESSION SICKNESS
IMMERSION
INERT GAS NARCOSIS

Mucociliary activity and the diving reflex. Lindberg S, et al. **Am J Otolaryngol** 1990 May-Jun;11(3):182–7

Alveolar hemorrhage as a manifestation of pulmonary barotrauma after scuba diving. Balk M, et al. **Ann Emerg Med** 1990 Aug;19(8):930–4

Continuous changes in electroencephalographic topograms and auditory reaction time during simulated 21 ATA (atmospheres absolute) heliox saturation dives. Ozawa K, et al. **Ann Physiol Anthropol** 1989 Oct;8(4):247–66

Lactate does facilitate oxygen unloading from the hemoglobin of the whale, Balaenoptera acutorostrata, after diving. Brix O, et al. **Arctic Med Res** 1990 Jan;49(1):39–42

EEG changes measured by spectrum analysis under hyperbaric conditions. Dolmierski R, et al. **Aviat Space Environ Med** 1990 Jan;61(1):33–7

Numerical simulation of systemic O2 and CO2 exchange in a hyperbaric environment. Sharan M, et al. **Biosystems** 1989;23(1):21–30

Diving practices of scuba divers with asthma [see comments] Farrell PJ, et al. **BMJ** 1990 Jan 20;300(6718):166 Comment in: BMJ 1990 Mar 3;300(6724):609–10.

Simulated saturated divings and the ability to estimate the time elapsed. Szeluga J, et al. **Bull Inst Marit Trop Med Gdynia** 1989;40(1–2):87–93

The ugly duckling: a different kind of ship, a different kind of patient. Bateman W. **Can Med Assoc J** 1990 Feb 15; 142(4):365–6, 370–1

Contact allergy to Tego 103G disinfectant in a deep-sea diver. Munro CS, et al. **Contact Dermatitis** 1989 Oct; 21(4):278–9

Otolaryngic examination of the sport scuba diver. Talmi YP, et al. **Ear Nose Throat J** 1990 Aug;69(8):524, 527–8

The influence of diving variables on perceptual and cognitive functions in professional shallow-water (abalone) divers. Williamson AM, et al. **Environ Res** 1989 Oct;50(1):93–102

The pattern of breathing and the ventilatory response to breathing through a tube and to physical exercise in sport divers. Smejkal V, et al. **Eur J Appl Physiol** 1989; 59(1–2):55–8

Modeling dissolved and free phase gas dynamics under decompression. Wienke BR. **Int J Biomed Comput** 1990 Apr;25(2–3):193–205

Studies in oral galvanism: mercury and copper levels in urine, blood and saliva in submerged electrically cutting divers. Ortendahl TW, et al. **J Oral Rehabil** 1989 Nov;16(6):559–73 (40 ref.)

The influence of N2-O2 and He-O2 saturation diving on electroencephalogram of human bodies. Shi ZY, et al. **Sci China [B]** 1989 Dec;32(12):1436–48

Program and abstracts. Joint Meeting on Diving and Hyperbaric Medicine. 11–18 August 1990, Amsterdam, The Netherlands. **Undersea Biomed Res** 1990;17 Suppl:1–184

Behavior of freely diving animals. Castellini MA, et al. **Undersea Biomed Res** 1989 Sep;16(5):355–62 (40 ref.)

Perspectives in diving and asphyxia. Elsner R. **Undersea Biomed Res** 1989 Sep;16(5):339–44 (20 ref.)

Molecular mechanisms of defense against oxygen lack. Hochachka PW. **Undersea Biomed Res** 1989 Sep; 16(5):375–9 (18 ref.)

Mechanism of tolerance to renal ischemia in harbor seal: role of membranes. Hong SK. **Undersea Biomed Res** 1989 Sep; 16(5):381–90 (20 ref.)

Adaptations to deep breath-hold diving: respiratory and circulatory mechanics. Leith DE. **Undersea Biomed Res** 1989 Sep;16(5):345–54 (13 ref.)

Hormonal and cardiorespiratory changes following simulated saturation dives to 4 and 11 ATA. Mateev G, et al. **Undersea Biomed Res** 1990 Jan;17(1):1–11

Characteristics of increased urine flow during a dry saturation dive at 31 ATA. Sagawa S, et al. **Undersea Biomed Res** 1990 Jan;17(1):13–22

Arterial gas tensions and hemoglobin concentrations of the freely diving Weddell seal. Zapol WM, et al. **Undersea Biomed Res** 1989 Sep;16(5):363–73

[Simulated diving tests in guinea pigs] Wang L. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1990;25(2):66–8, 125 (Eng. Abstr.) (Chi)

[Arrhythmia and vago-sympathetic equilibrium in athletic divers] Bonneau A, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:99–105 (Eng. Abstr.) (Fre)

[Decompression problems in diving in mountain lakes] Bühlmann AA. **Schweiz Z Sportmed** 1989 Aug;37(2):80–3; discussion 99–102 (Eng. Abstr.) (Fre)

[Decompression of deep divers] Gardette B. **Schweiz Z Sportmed** 1989 Aug;37(2):69–73; discussion 99–102 (Eng. Abstr.) (Fre)

[Interventional procedures in human practice dives in profesional diving in France] Gavarry P. **Schweiz Z Sportmed** 1989 Aug;37(2):77–9; discussion 99–102 (Fre)

[Observations on the diving tables used by athletes] Sciarli R. **Schweiz Z Sportmed** 1989 Aug;37(2):74–6; discussion 99–102 (Eng. Abstr.) (Fre)

[Comparison of the readings of the digital decompression meter with hyperbaric chamber tests] Hahn M. **Schweiz Z Sportmed** 1989 Aug;37(2):89–92; discussion 99–102 (Eng. Abstr.) (Ger)

[The development of a diving computer] Völlm E. **Schweiz Z Sportmed** 1989 Aug;37(2):84–8; discussion 99–102 (Eng. Abstr.) (Ger)

[Sports diving related to exercise physiology] Yoshida T. **Ann Physiol Anthropol** 1988 Apr;7(2):79–98 (21 ref.) (Jpn)

[Diving profiles and work loads of fishermen's "Oikomi Gyoho" diving] Shibayama M, et al. **Nippon Eiseigaku Zasshi** 1989 Jun;44(2):587–94 (Eng. Abstr.) (Jpn)

[A case of decompression sickness following saturation diving with transient deterioration during recompression therapy] Nitahara K, et al. **Sangyo Igaku** 1989 Nov;31(6):444–5 (Jpn)

[The cholin- and adrenergic mechanisms of the adaptation of the cardiac activity of diving animals during hypoxia] Kovalenko SG, et al. **Nerv Sist** 1989;28:21–8 (Rus)

ADVERSE EFFECTS

Immediate neurological effects of diving to a depth of 360 metres. Todnem K, et al. **Acta Neurol Scand** 1989 Oct; 80(4):333–40

Neurobehavioral and magnetic resonance imaging findings in two cases of decompression sickness. Levin HS, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1204–10

Pulmonary barotrauma and arterial gas embolism caused by an emphysematous bulla in a SCUBA diver. Mellem H, et al. **Aviat Space Environ Med** 1990 Jun;61(6):559–62

Inner ear decompression sickness following a shallow scuba dive. Reissman P, et al. **Aviat Space Environ Med** 1990 Jun;61(6):563–6

Scuba divers with asthma [letter; comment] **BMJ** 1990 Mar 3;300(6724):609–10 Comment on: BMJ 1990 Jan 20;300(6718):166.

Pulmonary mechanical function and diffusion capacity after deep saturation dives. Thorsen E, et al. **Br J Ind Med** 1990 Apr;47(4):242–7

Divers' lung function: small airways disease? Thorsen E, et al. **Br J Ind Med** 1990 Aug;47(8):519–23

Respiratory changes with deep diving. Segadal K, et al. **Eur Respir J** 1990 Jan;3(1):101–8 (79 ref.)

Exercise tolerance and pulmonary gas exchange after deep saturation dives. Thorsen E, et al. **J Appl Physiol** 1990 May;68(5):1809–14

Interatrial shunts and decompression sickness in divers [letter; comment] Smith DJ, et al. **Lancet** 1990 Jun 30; 335(8705):1593 Comment on: Lancet 1990 Apr 14;335(8694):914–5.

Interatrial shunts and decompression sickness in divers [letter; comment] [see comments] Smith DJ, et al. **Lancet** 1990 Apr 14;335(8694):914–5 Comment on: Lancet 1989 Dec 2;2(8675):1302–6. Comment in: Lancet 1990 Jun 30;335(8705):1593.

Scuba divers at risk of decompression sickness [letter] Tomlins R. **Med J Aust** 1990 Jun 4;152(11):615

Barodontalgia and barotrauma in the human teeth: findings in navy divers, frogmen, and submariners of the Federal Republic of Germany. Goethe WH, et al. **Milit Med** 1989 Oct;154(10):491–5

Diagnosis of dysbaric pathology. **Radiogr Today** 1989 Mar; 55(622):33

Functional capacity of neutrophil granulocytes in deep-sea divers. Benestad HB, et al. **Scand J Clin Lab Invest** 1990 Feb;50(1):9–18

Inherent unsaturation in the treatment of pneumothorax at depth. Daugherty CG. **Undersea Biomed Res** 1990 Mar; 17(2):171–7

Effect of exposure to compressed air and elevated oxygen levels on bone blood flow in the rabbit. Davis TR, et al. **Undersea Biomed Res** 1990 May;17(3):201–11

Lack of diurnal effects on periodic exercise during prolonged cold water immersion. Doubt TJ, et al. **Undersea Biomed Res** 1990 Mar;17(2):149–57

Behavioral effects of increased CO2 load in divers. Henning RA, et al. **Undersea Biomed Res** 1990 Mar;17(2):109–20

Body cooling with ice for warm-water diving operations. Holmér I. **Undersea Biomed Res** 1989 Nov;16(6):471–9

Electromyographic study of respiratory muscles during human diving at 46 ATA. Lenoir P, et al. **Undersea Biomed Res** 1990 Mar;17(2):121–37

Effect of peripheral temperature on the formation of venous gas bubbles. Mekjavić IB, et al. **Undersea Biomed Res** 1989 Sep;16(5):391–401

Hearing deterioration in professional divers: an epidemiologic study. Molvaer OI, et al. **Undersea Biomed Res** 1990 May; 17(3):231–46

Absence of diuresis during a 7-day saturation dive at 2.5 ATA N2-O2. Niu AK, et al. **Undersea Biomed Res** 1990 May;17(3):189–99

Prolonged whole body immersion in cold water: hormonal and metabolic changes. Smith DJ, et al. **Undersea Biomed Res** 1990 Mar;17(2):139–47

Maximum likelihood analysis of bubble incidence for mixed gas diving. Tikuisis P, et al. **Undersea Biomed Res** 1990 Mar;17(2):159–69

Analysis of neurologic symptoms in deep diving: implications for selection of divers. Todnem K, et al. **Undersea Biomed Res** 1990 Mar;17(2):95–107

Relative decompression risk of dry and wet chamber air dives. Weathersby PK, et al. **Undersea Biomed Res** 1990 Jul;17(4):333–52

Distribution of lesions in the head and neck of the humerus and the femur in dysbaric osteonecrosis. Zhang LD, et al. **Undersea Biomed Res** 1990 Jul;17(4):353–8

[The thorax of patients in diving accidents. Radiologic study] Le Vot J, et al. **J Radiol** 1989 May;70(5):357–63 (Eng. Abstr.) (Fre)

[Emergency treatment in decompression accidents in shipyards] Comet M. **Schweiz Z Sportmed** 1989 Aug; 37(2):115–9; discussion 124–30 (Eng. Abstr.) (Fre)

[Personal experience in hyperbaric oxygenation in decompression accidents] Ohresser P, et al. **Schweiz Z Sportmed** 1989 Aug;37(2):120–3; discussion 124–30 (Eng. Abstr.) (Fre)

[Principles of acute management of the severe diving accident] Lampl L, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):303–8 (Eng. Abstr.) (Ger)

[Recompression therapy in diving accidents—introduction, indication] Wendling J. **Schweiz Z Sportmed** 1989 Aug; 37(2):104–8; discussion 124–30 (Eng. Abstr.) (Ger)

[Fitness for work and capacity to stay under hyperbaric conditions] Schlick W. **Wien Med Wochenschr Suppl** 1987; 103:17–9 (Ger)

[Physiologic respiratory aspects of diving] von Laak U. **Wien Med Wochenschr Suppl** 1987;103:12–6 (0 ref.) (Ger)

[Sports medicine fitness evaluation for diving and rescue swimming] Badtke G. **Z Arztl Fortbild (Jena)** 1990; 84(12):593–6 (21 ref.) (Ger)

[The causes for the occurrence of acute hypoxia during long diving and its prevention] Chernets MI, et al. **Voen Med Zh** 1990 Jan;(1):56–7 (Rus)

[Subaquatic medicine?] Desola Alà J. **Med Clin (Barc)** 1990 Mar 17;94(10):377–80 (Spa)

[121 cases of decompression disease] Pujante Escudero AP, et al. **Med Clin (Barc)** 1990 Feb 24;94(7):250–4 (Eng. Abstr.) (Spa)

HISTORY

[A history of SCUBA diving] Seki K. **Ann Physiol Anthropol** 1989 Apr;8(2):95–108 (Jpn)

INJURIES

Initial table treatment of decompression sickness and arterial gas embolism. Bond JG, et al. **Aviat Space Environ Med** 1990 Aug;61(8):738–43

Fracture and dislocation of the fourth and fifth cervical vertebral bodies with transection of the spinal cord. Crenshaw AH Jr, et al. **Clin Orthop** 1989 Nov;(248):158–62

Bilateral shoulder dislocation: an unusual occurrence. Mathis RD. **J Emerg Med** 1990 Jan–Feb;8(1):41–3

Burst lung, CAGE and scuba diving deaths [editorial; comment] Edmonds C. **Med J Aust** 1990 Jul 16;153(2):65 Comment on: Med J Aust 1990 Jul 16;153(2):97–100.

Fatal arterial gas embolism: detection by chest radiography and imaging before autopsy [see comments] Williamson JA, et al. **Med J Aust** 1990 Jul 16;153(2):97–100 Comment in: Med J Aust 1990 Jul 16;153(2):65.

Don't drink and dive [editorial] Alexander E Jr. **Surg Neurol** 1990 Sep;34(3):159

Diving injuries of the cervical spine. Bailes JE, et al. **Surg Neurol** 1990 Sep;34(3):155–8

DIVORCE

Styles of conflict resolution and cooperation between divorced parents: effects on child behavior and adjustment. Camara KA, et al. **Am J Orthopsychiatry** 1989 Oct; 59(4):560–75

Predictors of children's postdivorce adjustment. Kalter N, et al. **Am J Orthopsychiatry** 1989 Oct;59(4):605–18

Daughters of divorce: report from a ten-year follow-up. Wallerstein JS, et al. **Am J Orthopsychiatry** 1989 Oct; 59(4):593–604

Criticism of review of book on divorce [letter] Mallinger KM. **Am J Psychiatry** 1990 May;147(5):683–4

Divorce and the psychotherapist. Pappas PA. **Am J Psychother** 1989 Oct;43(4):506–17

Causal explanations and emotional health of women during divorce. Barron CR. **Arch Psychiatr Nurs** 1989 Oct; 3(5):266–71

The role of the family therapist in divorce: benevolent healer or agent of social change? Whiteside MF. **Fam Process** 1989 Sep;28(3):357–67

Resolving disputes over frozen embryos. Robertson JA. **Hastings Cent Rep** 1989 Nov–Dec;19(6):7–12

The significance of stepgrandparents. Trygstad DW, et al. **Int J Aging Hum Dev** 1989;29(2):119–34

Divorce for women after midlife. Uhlenberg P, et al. **J Gerontol** 1990 Jan;45(1):S3–11

A comparative study of self-esteem of adolescent children of divorced lesbian mothers and divorced heterosexual mothers. Huggins SL. **J Homosex** 1989;18(1–2):123–35

Marriage and divorce after childhood and adolescent cancer. Byrne J, et al. **JAMA** 1989 Nov 17;262(19):2693–9

Divorce among physicians [letter; comment] Hojat M. **JAMA** 1989 Nov 10;262(18):2540 Comment on: JAMA 1989 Apr 28;261(16):2374–7.

Children of divorce: recent findings regarding long-term effects and recent studies of joint and sole custody. Wallerstein JS, et al. **Pediatr Rev** 1990 Jan;11(7):197–204
Effect of divorce on the suicide rates of single and married men. Lester D. **Psychol Rep** 1989 Oct;65(2):658
The primary support received by recently divorced mothers. Duffy ME. **West J Nurs Res** 1989 Dec;11(6):676–90; discussion 690–3
[The divorce of parents, an ordeal for children to overcome, cause or factor of possible psychopathologic decompensation] Beverina M. **Ann Med Psychol (Paris)** 1989 Mar–Apr;147(2):210–4 (0 ref.) (Fre)

LEGISLATION & JURISPRUDENCE

Ongoing postdivorce conflict: effects on children of joint custody and frequent access. Johnston JR, et al. **Am J Orthopsychiatry** 1989 Oct;59(4):576–92
Custody after divorce: demographic and attitudinal patterns. Pearson J, et al. **Am J Orthopsychiatry** 1990 Apr; 60(2):233–49 (63 ref.)
Grandparents' legal rights to visitation in the fifty states and the District of Columbia. McCrimmon CA, et al. **Bull Am Acad Psychiatry Law** 1989;17(4):355–66
A study of families in high-conflict custody disputes: effects of psychiatric evaluation. Simons VA, et al. **Bull Am Acad Psychiatry Law** 1990;18(1):85–97
Facing separation and divorce: what is your licence to practice worth? Colman GC. **Can Dent Assoc J** 1990 Jan; 56(1):30–1
Separation and divorce and MDs: what is your licence to practise worth? Colman GC. **Can Med Assoc J** 1990 Mar 15;142(6):645–6
Whose embryo is it? Healey JM. **Conn Med** 1990 Feb; 54(2):105
Putting hubby through—the compensatory support conundrum. Colman GC. **J Can Dent Assoc** 1990 Mar; 56(3):201–2
[From the viewpoint of the child] Schmidt MH. **Z Kinder Jugendpsychiatr** 1989 Sep;17(3):117–8 (Ger)

PSYCHOLOGY

Adolescent school performance following parental divorce: are there family factors that can enhance success? McCombs A, et al. **Adolescence** 1989 Winter;24(96):871–80
Life strains, coping, and emotional well-being: a longitudinal study of recently separated and married women. Nelson G. **Am J Community Psychol** 1989 Aug;17(4):459–83
Social support of children of divorce: direct and stress buffering effects. Wolchik SA, et al. **Am J Community Psychol** 1989 Aug;17(4):485–501
Factors associated with academic achievement in children following parental separation. Bisnaire LM, et al. **Am J Orthopsychiatry** 1990 Jan;60(1):67–76
Sense of competence, time perspective, and state-anxiety of separated versus divorced mothers. Dreman S, et al. **Am J Orthopsychiatry** 1990 Jan;60(1):77–85
Cognitive remodeling of the family: how remarried people view stepfamilies. Keshet JK. **Am J Orthopsychiatry** 1990 Apr;60(2):196–203
Transference and countertransference in clinical intervention with divorcing families. Wallerstein JS. **Am J Orthopsychiatry** 1990 Jul;60(3):337–45
Stress, marital separation and divorce. Burrows GD. **Aust Fam Physician** 1989 Nov;18(11):1351–7, 1360–1
The role of family formation and dissolution in shaping drinking behaviour in early adulthood. Power C, et al. **Br J Addict** 1990 Apr;85(4):521–30
The effects of childhood parental death and divorce on six-month history of anxiety disorders [see comments] Tweed JL, et al. **Br J Psychiatry** 1989 Jun;154:823–8 Comment in: Br J Psychiatry 1989 Sep;155:421.
Factors associated with divorce in intrafamily child sexual abuse cases. Sirles EA, et al. **Child Abuse Negl** 1990; 14(2):165–70
Determinants of adjustment for children of divorcing parents. Oppenheimer K, et al. **Fam Med** 1990 Mar–Apr; 22(2):107–11
Children of divorced and separated parents: summary and review of findings from a long-term follow-up study in the UK. Wadsworth M, et al. **Fam Pract** 1990 Jun; 7(2):104–9
Women's childhood experience of parental separation and their subsequent health and socioeconomic status in adulthood. Kuh D, et al. **J Biosoc Sci** 1990 Jan;22(1):121–35
Relationships between support and adjustment among children of divorce. Cowen EL, et al. **J Child Psychol Psychiatry** 1990 Jul;31(5):727–35
Evaluation of parents: do they vary as a function of parent loss, age at loss, or gender of the respondent? Parish TS. **J Genet Psychol** 1989 Dec;150(4):461–2
The development of structural complexity in the child's concept of family: the effect of cognitive stage, sex, and intactness of family. Wedemeyer NV, et al. **J Genet Psychol** 1989 Dec;150(4):341–57
Relationship of divorce to self-concept, self-esteem, and grade point average of fifth and sixth grade school children. Beer J. **Psychol Rep** 1989 Dec;65(3 Pt 2):1379–83
Parental divorce during childhood and use of violence in dating relationships. Billingham RE, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):1003–9
The association of gender identity disorder with parental separation. Rekers GA, et al. **Psychol Rep** 1989 Dec;65(3 Pt 2):1272–4
Locus of control and anxiety in children from intact and maritally disrupted families. St-Yves A, et al. **Psychol Rep** 1989 Dec;65(3 Pt 1):855–60
Strategic uses of narrative in the presentation of self and illness: a research note. Riessman CK. **Soc Sci Med** 1990; 30(11):1195–200
[Divorce from the viewpoint of the child] Plöchl E. **Padiatr Padol** 1990;25(1):5–9 (13 ref.) (Ger)

STATISTICS & NUMERICAL DATA

The incidence of twins in care. Broadbent BA. **Child Care Health Dev** 1990 Mar–Apr;16(2):139–43
What are the economic consequences of divorce? Hoffman SD, et al. **Demography** 1988 Nov;25(4):641–5
The effect of marital disruption on children's health. Mauldon J. **Demography** 1990 Aug;27(3):431–46
Remarriage patterns of black and white women: reassessing the role of educational attainment. Smock PJ. **Demography** 1990 Aug;27(3):467–73
Children's experience in single-parent families: implications of cohabitation and marital transitions. Bumpass LL, et al. **Fam Plann Perspect** 1989 Nov–Dec;21(6):256–60
[Cumulative incidence rate of divorces for birth cohort estimated by the life-table method] Iki M, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1112–9 (Eng. Abstr.) (Jpn)

TRENDS

Marital stability throughout the child-rearing years. Heaton TB. **Demography** 1990 Feb;27(1):55–63
The growth of families headed by women: 1950–1980. Wojtkiewicz RA, et al. **Demography** 1990 Feb;27(1):19–30

DIZZINESS

The development of the Dizziness Handicap Inventory. Jacobson GP, et al. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):424–7
Research circumvents defensive medicine [letter; comment] Cheng TO. **J Am Geriatr Soc** 1989 Nov;37(11):1101 Comment on: J Am Geriatr Soc 1989 May;37(5):430–4.
Dizziness. Paparella MM, et al. **Prim Care** 1990 Jun; 17(2):299–308 (14 ref.)

CHEMICALLY INDUCED

[Pharmacodynamics of allapinin and its possible adverse effects] Abdalla A, et al. **Kardiologiia** 1989 Jul;29(7):29–32 (Eng. Abstr.) (Rus)

DIAGNOSIS

Quantitative vestibular function testing in elderly patients with dizziness. Baloh RW, et al. **Ear Nose Throat J** 1989 Dec;68(12):935–9
Dizziness: current evaluation. Adkins WY, et al. **J S C Med Assoc** 1989 Sep;85(9):441–3
Diagnostic neurotology. **Neurol Clin** 1990 May;8(2):199–481
Dynamic posturography in the diagnosis and management of dizziness and balance disorders. Nashner LM, et al. **Neurol Clin** 1990 May;8(2):331–49 (52 ref.)
How do we use state of the art vestibular testing to diagnose and treat the dizzy patient? An overview of vestibular testing and balance system integration. Rubin W. **Neurol Clin** 1990 May;8(2):225–34 (10 ref.)

ETIOLOGY

Sensitivity and specificity of the head-shaking test for detecting vestibular system abnormalities. Jacobson GP, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):539–42 (9 ref.)
Electronystagmographic findings among 127 dizzy patients: correlation with the aetiology of dizziness. Ojala M, et al. **Clin Otolaryngol** 1989 Aug;14(4):343–8
Dizziness in geriatric practice [letter] Kuchel GA, et al. **J Am Geriatr Soc** 1990 Aug;38(8):957
Persistent dizziness in geriatric patients. Sloane PD, et al. **J Am Geriatr Soc** 1989 Nov;37(11):1031–8
Permanent pacemaker placement in chronic atrial fibrillation associated with intermittent AV block and cerebral symptoms. Saxon LA, et al. **PACE** 1990 Jun;13(6):724–9
Operative correction of a kinked duplicate origin of the vertebral artery in a patient with dizziness. Case report. Nishijima M, et al. **Surg Neurol** 1989 Nov;32(5):356–9
[Causes and mechanisms in dizziness] Laitakari K. **Nord Med** 1989;104(11):289–92 (Eng. Abstr.) (Swe)

PATHOLOGY

Magnetic resonance imaging of the brain and brain-stem in elderly patients with dizziness. Day JJ, et al. **Age Ageing** 1990 Mar;19(2):144–50

PHYSIOPATHOLOGY

Posturography and the dizzy patient: a neurological study of 133 patients. Ojala M, et al. **Acta Neurol Scand** 1989 Aug;80(2):118–22
Rotational responses in patients with bilateral caloric reduction. Furman JM, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):355–61
An evaluation of the relationship among electronystagmographic, audiologic, and self-report descriptors of dizziness. Spitzer JB. **Eur Arch Otorhinolaryngol** 1990;247(2):114–8
A systematic approach to the dizzy patient. Brown JJ. **Neurol Clin** 1990 May;8(2):209–24 (85 ref.)
Dizziness. A clinical perspective. Smith DB. **Neurol Clin** 1990 May;8(2):199–207 (7 ref.)

PSYCHOLOGY

Dizziness and perceptual style. O'Connor K, et al. **Psychother Psychosom** 1989;51(4):169–74

RADIOGRAPHY

Neuroradiology of vestibular pathways. Seibert CE, et al. **Neurol Clin** 1990 May;8(2):375–94 (34 ref.)

DJUNGARIAN see HAMSTERS

DJUNGARIAN HAMSTER see HAMSTERS

DMBA see 9,10-DIMETHYL-1,2-BENZANTHRACENE

DMF INDEX

Sucrase activity in relation to other salivary factors and DMFS values of dental students. Karjalainen S, et al. **Acta Odontol Scand** 1990 Jun;48(3):183–7
Dental caries experience of Inuit children in the Keewatin region, Northwest Territories, 1983/84. MacDonald L, et al. **Arctic Med Res** 1988;47 Suppl 1:557–61
Changing patterns in dental caries and treatment needs in Labrador school children. Messer JG. **Arctic Med Res** 1988;47 Suppl 1:554–6
The changes in dental caries experience of 12-year-old schoolchildren in two Somerset schools. A review after an interval of 25 years [see comments] Anderson RJ. **Br Dent J** 1989 Nov 11;167(9):312–4 Comment in: Br Dent J 1989 Dec 9–23;167(11):371.
The changes in dental caries experience of 12-year-old schoolchildren in two Somerset schools. A review after an interval of 25 years' [letter; comment] Simmons SR. **Br Dent J** 1989 Dec 9–23;167(11):371 Comment on: Br Dent J 1989 Nov 11;167(9):312–4.
Alcoholism and the dentist. Robb ND. **Br J Addict** 1990 Apr;85(4):437–9 (27 ref.)
Pattern of caries experience in permanent molars in a 15-year-old African population. Johnson AS, et al. **Caries Res** 1989;23(6):423–6
A reassessment of the dental health of urban Scottish schoolchildren following the cessation of water fluoridation. Attwood D, et al. **Community Dent Health** 1989 Sep;6(3):207–14
Dental status in a group of adult diabetic patients. Bačić M, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):313–6
Caries prevalence ratios in a Tanzanian child population. Frencken JE, et al. **Community Dent Oral Epidemiol** 1989 Oct;17(5):227–9
Correction factor for the M-component in DMFS-index in child and adolescent population in Tanzania. Frencken JE, et al. **Community Dent Oral Epidemiol** 1990 Jun; 18(3):159–60
Prediction of caries activity in children with today's low caries incidence. Klock B, et al. **Community Dent Oral Epidemiol** 1989 Dec;17(6):285–8
Dental caries status and treatment needs of the permanent dentition of 6–12-year-olds in Hong Kong. Lo EC, et al. **Community Dent Oral Epidemiol** 1990 Feb;18(1):9–11
Past caries recordings made in Public Dental Clinics as predictors of caries prevalence in early adolescence. Seppä L, et al. **Community Dent Oral Epidemiol** 1989 Dec; 17(6):277–81
Pilot study on obesity in caries prediction. Tuomi T. **Community Dent Oral Epidemiol** 1989 Dec;17(6):289–91
Caries in fissures of permanent first molars as a predictor for caries increment. van Palenstein Helderman WH, et al. **Community Dent Oral Epidemiol** 1989 Dec;17(6):282–4
Fluoridation and dental fillings [letter] Colquhoun J. **N Z Med J** 1990 Jun 13;103(891):276–7
Assessment of the DMF-S index with the use of bitewing radiographs. Mann J, et al. **Oral Surg Oral Med Oral Pathol** 1989 Nov;68(5):661–5
[Effects of chemical occupational environmental factors on the prevalence of damage to the teeth, mouth and jaw of exposed workers] Ruppe K, et al. **Z Gesamte Hyg** 1989 Dec;35(12):702–4 (Eng. Abstr.) (Ger)
[Effect of the parental home on the oral health status of children] Schneider HG, et al. **Z Gesamte Hyg** 1989 Sep; 35(9):523–6 (Eng. Abstr.) (Ger)
[DMF study on extracted deciduous teeth] Madléna M, et al. **Fogorv Sz** 1989 Oct;82(10):305–9 (Eng. Abstr.) (Hun)
[Results of the caries prevention program in Gödöllö. I. Cariologic studies] Makra C. **Fogorv Sz** 1990 Mar; 83(3):77–81 (Eng. Abstr.) (Hun)
[The effect of Duraphat lacquer on the condition of the permanent teeth in children consuming fluoridated table salt] Mari A, et al. **Fogorv Sz** 1988 Jun;81(6):169–74 (42 ref.) (Eng. Abstr.) (Hun)
[The condition of the permanent teeth of students 15 to 17 years of age in secondary schools in Csongrád County]

Mari A, et al. **Fogorv Sz** 1989 Nov;82(11):343–8 (Eng. Abstr.) **(Hun)**

[The effect of Fluor Protector lacquer on the deciduous and permanent teeth in children consuming fluoridated table salt] Mari A, et al. **Fogorv Sz** 1988 Aug;81(8):225–30 (41 ref.) (Eng. Abstr.) **(Hun)**

[Epidemiologic approaches, in school health education programs with particular attention to dentistry] Percoco M, et al. **Ann Ig** 1989 May–Aug;1(3–4):525–38 (Eng. Abstr.) **(Ita)**

[The incidence of dental caries in the school population of the Province of Trieste] Sticco E, et al. **Minerva Stomatol** 1989 Sep;38(9):1029–33 (Eng. Abstr.) **(Ita)**

[Epidemiologic study of the prevalence of dental caries in patients with Down syndrome] Alio Sanz JJ, et al. **Rev Sanid Hig Publica (Madr)** 1989 Jan–Feb;63(1–2):63–70 (Eng. Abstr.) **(Spa)**

[Evaluation of a program for the prevention of dental caries in the school environment] Ballestín M, et al. **Rev Sanid Hig Publica (Madr)** 1989 Jan–Feb;63(1–2):71–9 (Eng. Abstr.) **(Spa)**

DMPP see under **PIPERAZINES**

DMSO see **DIMETHYL SULFOXIDE**

DNA

see related
GENETIC CODE
NUCLEIC ACID DENATURATION
NUCLEIC ACID HYBRIDIZATION
REPETITIVE SEQUENCES, NUCLEIC ACID

Solving DNA structures by MERLOT. Chattopadhyaya R, et al. **Acta Crystallogr B** 1988 Dec 1;44 (Pt 6):651–7

Low-temperature study of the A–DNA fragment d(GGGCGCCC). Eisenstein M, et al. **Acta Crystallogr B** 1988 Dec 1;44 (Pt 6):625–8

Structures of three DNA cross–linking agents, ethane–1,2–di(methylsulfonate), propane–1,3–di(methylsulfonate) and n–butane–1,4–di(methylsulfonate). McKenna R, et al. **Acta Crystallogr C** 1989 Feb 15;45 (Pt 2):311–4

Monomerizing effect of caffeine, o–phenanthroline, and tannin on cationic dyes: a model system to analyze spectral characteristics of the intercalative binding to nucleic acids. Stockert JC. **Acta Histochem (Jena)** 1989;87(1):33–42

Studies of protein–nucleic acid interactions using model crystals. Sasada Y, et al. **Adv Biophys** 1988;24:57–92 (103 ref.)

Structure of the human cDNAs and genes coding for calbindin D28K and calretinin. Parmentier M. **Adv Exp Med Biol** 1990;269:27–34 (32 ref.)

Discrepancy in the diagnoses of hydatidiform mole by macroscopic and microscopic findings and the deoxyribonucleic acid fingerprint method. Takahashi H, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):112–3

Detection of numerical chromosome aberrations in bladder cancer by in situ hybridization. Hopman AH, et al. **Am J Pathol** 1989 Dec;135(6):1105–17

A blotting method for monitoring the formation of chemically induced DNA–protein complexes. Cohen MD, et al. **Anal Biochem** 1990 Apr;186(1):1–7

Chemiprobe, a nonradioactive system for labeling nucleic acid. Principles and applications. Nur I, et al. **Ann Biol Clin (Paris)** 1989;47(10):601–6

Sequence–directed curvature of DNA. Hagerman PJ. **Annu Rev Biochem** 1990;59:755–81 (136 ref.)

Ion distributions around DNA and other cylindrical polyions: theoretical descriptions and physical implications. Anderson CF, et al. **Annu Rev Biophys Biophys Chem** 1990; 19:423–65 (163 ref.)

Multipartite genetic control elements: communication by DNA loop. Adhya S. **Annu Rev Genet** 1989;23:227–50 (76 ref.)

The isochore organization of the human genome. Bernardi G. **Annu Rev Genet** 1989;23:637–61 (116 ref.)

Synthesis of polyamine–linked bis–daunomycin hydrazones and their interaction with DNA. Hook RJ, et al. **Anticancer Drug Des** 1989 Oct;4(3):173–90

Transfection by DNA–nuclear protein HMG1 complexes: raising of efficiency and role of DNA topology. Böttger M, et al. **Arch Geschwulstforsch** 1990;60(4):265–70

The human pregnancy–specific glycoprotein genes are tightly linked on the long arm of chromosome 19 and are coordinately expressed. **Biochem Biophys Res Commun** 1990 May 16;168(3):1325

The role of electron donors and acceptors in base stacking in DNA and RNA. Chen EC, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):97–101

Conformational variations in d(TGACGTCA) and its reverse sequence d(ACTGCAGT): a joint circular dichroism and nuclear magnetic resonance study. Mauffret O, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):602–14

Does anthramycin bind to Z–DNA as well as to B–DNA? A molecular mechanics study. Rao SN. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):477–83

An electron paramagnetic resonance probe to detect local Z–DNA conformations. Strobel OK, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1435–40

Affinity of a DNA with highly repetitive sequence for nuclear proteins from rat liver. Asano S, et al. **Biochem Int** 1989 Oct;19(4):871–80

Fluorescence stopped–flow kinetics of the cleavage of synthetic oligodeoxynucleotides by the EcoRI restriction endonuclease. Alves J, et al. **Biochemistry** 1989 Sep 19; 28(19):7879–88

Strand specificity of the topoisomerase II mediated double–stranded DNA cleavage reaction. Andersen AH, et al. **Biochemistry** 1989 Jul 25;28(15):6237–44

Three–dimensional solution structure of a DNA duplex containing the BclI restriction sequence: two–dimensional NMR studies, distance geometry calculations, and refinement by back–calculation of the NOESY spectrum. Banks KM, et al. **Biochemistry** 1989 Aug 22; 28(17):6996–7010

Potassium monopersulfate and a water–soluble manganese porphyrin complex, [Mn(TMPyP)](OAc)5, as an efficient reagent for the oxidative cleavage of DNA. Bernadou J, et al. **Biochemistry** 1989 Sep 5;28(18):7268–75

Effects of base sequence on the loop folding in DNA hairpins. Blommers MJ, et al. **Biochemistry** 1989 Sep 5;28(18):7491–8

Recognition between mitomycin C and specific DNA sequences for cross–link formation. Borowy–Borowski H, et al. **Biochemistry** 1990 Mar 27;29(12):2999–3006

Deuterium relaxation and internal motion in solid Li–DNA. Brandes R, et al. **Biochemistry** 1990 Feb 20;29(7):1717–21

Periodical polydeoxynucleotides and DNA curvature. Cacchione S, et al. **Biochemistry** 1989 Oct 31; 28(22):8706–13

The length of a junction between the B and Z conformations in DNA is three base pairs or less. Dai ZY, et al. **Biochemistry** 1989 Aug 22;28(17):6991–6

NMR studies of DNA (R+)n.(Y–)n.(Y+)n triple helices in solution: imino and amino proton markers of T.A.T and C.G.C+ base–triple formation. de los Santos C, et al. **Biochemistry** 1989 Sep 5;28(18):7282–9

A.T and C.C+ base pairs can form simultaneously in a novel multistranded DNA complex. Edwards EL, et al. **Biochemistry** 1990 Jan 23;29(3):828–36

Recognition properties of antisense peptides to Arg8–vasopressin/bovine neurophysin II biosynthetic precursor sequences. Fassina G, et al. **Biochemistry** 1989 Oct 31;28(22):8811–8

Structural comparison of anticancer drug–DNA complexes: adriamycin and daunomycin. Frederick CA, et al. **Biochemistry** 1990 Mar 13;29(10):2538–49

Characterization of a parallel–stranded DNA hairpin. Germann MW, et al. **Biochemistry** 1989 Jul 25; 28(15):6220–8

Pyrimidine 5–methyl groups influence the magnitude of DNA curvature. Hagerman PJ. **Biochemistry** 1990 Feb 27; 29(8):1980–3

Effect of ionic strength and cationic DNA affinity binders on the DNA sequence selective alkylation of guanine N7–positions by nitrogen mustards. Hartley JA, et al. **Biochemistry** 1990 Mar 27;29(12):2985–91

Iron(II)–ethylenediaminetetraacetic acid catalyzed cleavage of DNA is highly specific for duplex DNA [published erratum appears in Biochemistry 1990 May 29;29(21):5220] Jezewska MJ, et al. **Biochemistry** 1989 Jul 25;28(15):6161–4

Quantitative analysis of DNA secondary structure from solvent–accessible surfaces: the B– to Z–DNA transition as a model. Kagawa TF, et al. **Biochemistry** 1989 Aug 8; 28(16):6642–51

O6–ethylguanine carcinogenic lesions in DNA: an NMR study of O6etG.C pairing in dodecanucleotide duplexes. Kalnik MW, et al. **Biochemistry** 1989 Jul 25;28(15):6182–92

O6–ethylguanine carcinogenic lesions in DNA: an NMR study of O6etG.T pairing in dodecanucleotide duplexes. Kalnik MW, et al. **Biochemistry** 1989 Jul 25;28(15):6170–81

Processes of base–pair opening and proton exchange in Z–DNA. Kochoyan M, et al. **Biochemistry** 1990 May 22; 29(20):4799–805

Determination of the extent of DNA bending by an adenine–thymine tract. Koo HS, et al. **Biochemistry** 1990 May 1;29(17):4227–34

NMR studies of an exocyclic 1,N2–propanodeoxyguanosine adduct (X) located opposite deoxyadenosine (A) in DNA duplexes at basic pH: simultaneous partial intercalation of X and A between stacked bases. Kouchakdjian M, et al. **Biochemistry** 1990 May 8;29(18):4456–65

Drug binding by branched DNA: selective interaction of the dye stains–all with an immobile junction. Lu M, et al. **Biochemistry** 1990 Apr 3;29(13):3407–12

Limited sampling of conformational space by the distance geometry algorithm: implications for structures generated from NMR data. Metzler WJ, et al. **Biochemistry** 1989 Aug 22;28(17):7045–52

Solution structure of the EcoRI DNA sequence: refinement of NMR–derived distance geometry structures by NOESY spectrum back–calculations. Nerdal W, et al. **Biochemistry** 1989 Dec 26;28(26):10008–21

Structure and dynamics of a fluorescent DNA oligomer containing the EcoRI recognition sequence: fluorescence, molecular dynamics, and NMR studies. Nordlund TM, et al. **Biochemistry** 1989 Nov 14;28(23):9095–103

NMR and computational characterization of mitomycin cross–linked to adjacent deoxyguanosines in the minor groove of the d(T–A–C–G–T–A).d(T–A–C–G–T–A) duplex. Norman D, et al. **Biochemistry** 1990 Mar 20; 29(11):2861–75

Rapid purification of the estrogen receptor by sequence–specific DNA affinity chromatography. Peale FV Jr, et al. **Biochemistry** 1989 Oct 31;28(22):8671–5

Hairpin structures in DNA containing arabinofuranosylcytosine. A combination of nuclear magnetic resonance and molecular dynamics. Pieters JM, et al. **Biochemistry** 1990 Jan 23;29(3):788–99

Branch migration mediated DNA labeling and cloning. Quartin RS, et al. **Biochemistry** 1989 Oct 31;28(22):8676–82

Helix–coil transition of parallel–stranded DNA. Thermodynamics of hairpin and linear duplex oligonucleotides. Ramsing NB, et al. **Biochemistry** 1989 Nov 28;28(24):9528–35

NMR distance measurements in DNA duplexes: sugars and bases have the same correlation times. Reid BR, et al. **Biochemistry** 1989 Dec 26;28(26):10001–7

Spectroscopic properties and helical stabilities of 25–nt parallel–stranded linear DNA duplexes. Rippe K, et al. **Biochemistry** 1989 Nov 28;28(24):9536–41

Facile interconversion of duplex structures formed by copolymers of d(CG). Rokita SE, et al. **Biochemistry** 1989 Dec 12;28(25):9674–9

Effect of distortions in the deoxyribose phosphate backbone conformation of duplex oligodeoxyribonucleotide dodecamers containing GT, GG, GA, AC, and GU base–pair mismatches on 31P NMR spectra. Roongta VA, et al. **Biochemistry** 1990 Jun 5;29(22):5245–58

Determination of the DNA sugar pucker using 13C NMR spectroscopy. Santos RA, et al. **Biochemistry** 1989 Nov 28;28(24):9372–8

Interaction of cationic porphyrins with DNA: importance of the number and position of the charges and minimum structural requirements for intercalation. Sari MA, et al. **Biochemistry** 1990 May 1;29(17):4205–15

Binding of mithramycin to DNA in the presence of second drugs. Sarker M, et al. **Biochemistry** 1989 Aug 8; 28(16):6651–7

Quantitative structure of a complex between a minor–groove–specific drug and a bent DNA decamer duplex: use of 2D NMR data and NOESY constrained energy minimization. Sarma MH, et al. **Biochemistry** 1990 May 15;29(19):4723–34

An NMR study of the covalent and noncovalent interactions of CC–1065 and DNA. Scahill TA, et al. **Biochemistry** 1990 Mar 20;29(11):2852–60

Multiple non–B–DNA conformations of polypurine.polypyrimidine sequences in plasmids. Shimizu M, et al. **Biochemistry** 1990 May 15;29(19):4704–13

Characterization of the structure and melting of DNAs containing backbone nicks and gaps. Snowden–Ifft EA, et al. **Biochemistry** 1990 Jun 26;29(25):6017–25

Sequence– and structure–dependent DNA base dynamics: synthesis, structure, and dynamics of site and sequence specifically spin–labeled DNA. Spaltenstein A, et al. **Biochemistry** 1989 Nov 28;28(24):9484–95

Discrimination between DNA sequences by the EcoRV restriction endonuclease. Taylor JD, et al. **Biochemistry** 1989 Jul 25;28(15):6198–207

Effect of the methyl group on DNA bending and curvature: structure of d(GA4U4C)2 in solution. Umemoto K, et al. **Biochemistry** 1990 May 15;29(19):4714–22

Bidirectional transcription footprinting of DNA binding ligands. White RJ, et al. **Biochemistry** 1989 Jul 25; 28(15):6259–69

Electrostimulated uptake of DNA by liposomes. Chernomordik LV, et al. **Biochim Biophys Acta** 1990 May 9;1024(1):179–83

Molecular characterization of the Spirometra mansonoides genome: renaturation kinetics, methylation, and hybridization to human cDNA probes. Cox GS, et al. **Biochim Biophys Acta** 1990 Jun 21;1049(2):134–44

Structure of genomic DNA for rat platelet phospholipase A2. Kusunoki C, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):95–7

Sequence specific conformation of a DNA decamer containing an adenine tract studied in solution by H–NMR spectroscopy. Searle MS, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):69–77

Nucleotide sequence of cDNA for nonmuscle tropomyosin 5 of mouse fibroblast. Takenaga K, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):101–3

Antibodies against (1R,2R)–cyclohexanediamineplatinum(II)–DNA adduct recognize the conformational differences of isomeric analogues of cyclohexanediamine. Yamada H, et al. **Biochim Biophys Acta** 1990 Jul 30;1049(3):298–302

Mitochondrial and nuclear DNA complementation in the respiratory chain function and defects. Lestienne P. **Biochimie** 1989 Nov–Dec;71(11–12):1115–23 (50 ref.)

A method for the experimental study of DNA conformational transitions in fibers. Premilat S, et al. **Biophys Chem** 1990 Jan;35(1):37–45

Linear dichroism properties and orientations of different ultraviolet transition moments of benzo[a]pyrene derivatives bound noncovalently and covalently to DNA. Roche CJ, et al. **Biophys Chem** 1989 Jul;33(3):277–88

Infrared and X–ray diffraction study of the effect of protonation of DNA on its B–to–A transition. Sukhorukov BI, et al. **Biophys Chem** 1990 Jan;35(1):47–54

Interaction of water with oriented DNA in the A– and B–form conformations. Brandes R, et al. **Biophys J** 1989 Oct;56(4):683–91

Vibrational fluctuations of hydrogen bonds in a DNA double

helix with nonuniform base pairs. Feng Y, et al. **Biophys J** 1990 Mar;57(3):547–53

Cation radius effects on the helix–coil transition of DNA. Cryptates and other large cations. Trend BL, et al. **Biophys J** 1990 Apr;57(4):829–34

The influence of Li+, Na+, Mg2+, Ca2+, and Zn2+ ions on the hydrogen bonds of the Watson–Crick base pairs. Anwander EH, et al. **Biopolymers** 1990 Mar–Apr; 29(4–5):757–69

Electrostatic forces at helix–coil boundaries in DNA. Blake RD, et al. **Biopolymers** 1990 Feb 5;29(2):393–405

Computational analysis of the effects of site-specific phosphate alkylation in the DNA oligomer (d-[GGAATTCC])2. Broido MS, et al. **Biopolymers** 1990 Feb 15;29(3):597–607

Study of large DNA fragments in agarose gels by transient electric birefringence. Chu B, et al. **Biopolymers** 1990 Mar–Apr;29(4–5):737–50

Structural principles of B-DNA grooves hydration in fibers as revealed by Monte Carlo simulations and X-ray diffraction. Eisenhaber F, et al. **Biopolymers** 1990 Aug 15–Sep;29(10–11):1453–64

Interactions of nucleic acids with distamycins. The drug monomeric chromophore. Forni A, et al. **Biopolymers** 1989 Dec;28(12):2161–76

Linear dichroism studies of the complexes between CT-DNA and distamycins. Forni A, et al. **Biopolymers** 1989 Dec; 28(12):2177–94

Computer simulation of hydrodynamic properties of semiflexible macromolecules: randomly broken chains, wormlike chains, and analysis of properties of DNA. García Molina JJ, et al. **Biopolymers** 1990 May–Jun; 29(6–7):883–900

Vibrational free energy, entropy, and temperature factors of DNA calculated by a helix lattice approach. Girirajan KS, et al. **Biopolymers** 1989 Nov;28(11):1841–60

The vacuum UV CD bands of repeating DNA sequences are dependent on sequence and conformation. Gray DM, et al. **Biopolymers** 1990 Feb 5;29(2):317–23

IR vibrational CD in model deoxyoligonucleotides: observation of the B——Z phase transition and extended coupled oscillator intensity calculations. Gulotta M, et al. **Biopolymers** 1989 Dec;28(12):2047–58

Determination of solution conformation of DNA backbone: application of homonuclear (J, delta) spectroscopy. Hosur RV, et al. **Biopolymers** 1990 May–Jun;29(6–7):953–9

Inclusion of ionic interactions in force field calculations of charged biomolecules—DNA structural transitions. Klement R, et al. **Biopolymers** 1990 May–Jun; 29(6–7):1089–103

Langevin modes of macromolecules: applications to crambin and DNA hexamers. Kottalam J, et al. **Biopolymers** 1990 Aug 15–Sep;29(10–11):1409–21

Adenine and guanine 8CH exchange in nucleic acids: resolution and measurement by Raman optical multichannel analysis. Lamba OP, et al. **Biopolymers** 1990 Aug 15–Sep; 29(10–11):1465–77

Inverted repeat sequences can influence the melting transitions of linear DNAs. McCampbell CR, et al. **Biopolymers** 1989 Oct;28(10):1745–58

IR and Raman spectroscopic studies on coulombic interaction between water-soluble porphyrins and nucleic acids. Nonaka Y, et al. **Biopolymers** 1990 May–Jun; 29(6–7):999–1004

The calculated free energy effects of 5-methyl cytosine on the B to Z transition in DNA. Pearlman DA, et al. **Biopolymers** 1990 Jul–Aug 5;29(8–9):1193–209

Contribution of asymmetric ligand binding to the apparent permanent dipole moment of DNA. Plum GE, et al. **Biopolymers** 1990 Jul–Aug 5;29(8–9):1137–46

Simulations of the B-DNA molecular dynamics of d(CGCGAATTCGCG)2 and d(GCGCGCGCGC)2: an analysis of the role of initial geometry and a comparison of united and all-atom models. Rao SN, et al. **Biopolymers** 1990 Feb 15;29(3):517–32

Structural dependence of oligonucleotide photooxidation. Rokita SE, et al. **Biopolymers** 1990 Jan;29(1):69–77

Effects of nucleotide bromination on the stabilities of Z-RNA and Z-DNA: a molecular mechanics/thermodynamic perturbation study. Ross WS, et al. **Biopolymers** 1989 Nov; 28(11):1939–57

Electrophoretic charge density and persistence length of DNA as measured by fluorescence microscopy. Smith SB, et al. **Biopolymers** 1990 Jul–Aug 5;29(8–9):1167–73

Electrophoresis and movements of fluorescence pattern after photobleaching of large DNA fragments in agarose gels. Wu C, et al. **Biopolymers** 1990 Feb 15;29(3):491–500

A rigorous mathematical treatment for the excluded volume effect in Monte Carlo simulations of polymeric chains. Yeramian E, et al. **Biopolymers** 1989 Dec;28(12):2059–70

Comparative gel electrophoresis measurement of the DNA bend angle induced by the catabolite activator protein. Zinkel SS, et al. **Biopolymers** 1990 Jan;29(1):29–38

Double-stranded sequencing, using mini-prep plasmids, in eleven hours. Gaterman KB, et al. **Biotechniques** 1988 Nov–Dec;6(10):951–2

PCR and DNA sequencing. Gyllensten UB. **Biotechniques** 1989 Jul–Aug;7(7):700–8 (43 ref.)

Graphic representation of long DNA sequences by the method of H curves—current results and future aspects. Hamori E. **Biotechniques** 1989 Jul–Aug;7(7):710–20 (34 ref.)

The 4–6–8 method of sequence analysis. Isfort RJ, et al. **Biotechniques** 1988 Feb;6(2):138–41

Rapid cDNA cloning directly from small quantities of total RNA. Kao HT. **Biotechniques** 1988 May;6(5):419–20

Using mini-prep plasmid DNA for sequencing double stranded templates with Sequenase. Kraft R, et al. **Biotechniques** 1988 Jun;6(6):544–6, 549

Effects of pulse length and pulse strength on transfection by electroporation. Kubiniec RT, et al. **Biotechniques** 1990 Jan;8(1):16–20 (13 ref.)

Rapid generation of subclones for DNA sequencing using the reverse cloning procedure. Liu ZJ, et al. **Biotechniques** 1989 Jul–Aug;7(7):722–8

An efficient method for sequencing PCR amplified DNA. Mihovilovic M, et al. **Biotechniques** 1989 Jan;7(1):14–6

Convenient uses of polymerase chain reaction in analyzing recombinant cDNA clones. Nishikawa BK, et al. **Biotechniques** 1989 Jul–Aug;7(7):730–5

Polymerase chain reaction. Oste C. **Biotechniques** 1988 Feb; 6(2):162–7

A simple BASIC program allows the rapid entry of DNA nucleotide sequences into personal computers. Pitt GS, et al. **Biotechniques** 1988 Feb;6(2):122–3

DNA sequencing with direct blotting electrophoresis and colorimetric detection. Richterich P, et al. **Biotechniques** 1989 Jan;7(1):52–9

Computer programs for molecular biology: an overview of DNA sequencing and protein analysis packages. Roe BA. **Biotechniques** 1988 Jun;6(6):560–2, 565

Enhancement of hydroxylation and deglycosylation of 2'-deoxyguanosine by carcinogenic nickel compounds. Kasprzak KS, et al. **Cancer Res** 1989 Nov 1;49(21):5964–8

Formation of cyclic 1,N2–propanodeoxyguanosine and thymidine adducts in the reaction of the mutagen 2–bromoacrolein with calf thymus DNA. Meerman JH, et al. **Cancer Res** 1989 Nov 15;49(22):6174–9

Chromatographic conditions for separation of 32P-labeled phosphates of major polynuclear aromatic hydrocarbon—deoxyribonucleoside adducts. Amin S, et al. **Carcinogenesis** 1989 Oct;10(10):1971–4

Chromium cross-links glutathione and cysteine to DNA. Borges KM, et al. **Carcinogenesis** 1989 Nov;10(11):2165–8

Differences in conformations of covalent adducts derived from the binding of 5- and 6-methylchrysene diol epoxide stereoisomers to DNA. Geacintov NE, et al. **Carcinogenesis** 1990 Jun;11(6):985–9

Non-B DNA structure: preferential target for the chemical carcinogen glycidaldehyde. Kohwi Y. **Carcinogenesis** 1989 Nov;10(11):2035–42

Synthesis of heterocyclic N-acetoxyarylamines and their reactivity with DNA. Lutgerink JT, et al. **Carcinogenesis** 1989 Oct;10(10):1957–60

The reaction of N-methyl-N-nitrosourea with DNA in B and non-B conformations. Milligan JR, et al. **Carcinogenesis** 1990 Jun;11(6):947–51

Detection of (3'-hydroxy)-3,N4-benzetheno-2'-deoxycytidine-3'-phosphate by 32P-postlabeling of DNA reacted with p-benzoquinone. Pongracz K, et al. **Carcinogenesis** 1990 Sep;11(9):1469–72

DNA polymerase action on bulky deoxyguanosine and deoxyadenosine adducts. Reardon DB, et al. **Carcinogenesis** 1990 Jan;11(1):165–8

Aflatoxin–DNA adduct formation in c·ronically dosed rats fed a choline-deficient diet. Schrager TF, et al. **Carcinogenesis** 1990 Jan;11(1):177–80

Why bend DNA? Travers AA. **Cell** 1990 Jan 26;60(2):177–80 (14 ref.)

Methylation of DNA by three N-nitroso compounds: evidence for sequence specific methylation by a common intermediate. Milligan JR, et al. **Chem Biol Interact** 1989; 72(1–2):175–89

Interaction of ellipticine and an indolo[2,3b]-quinoxaline derivative with DNA and synthetic polynucleotides. Zegar I, et al. **Chem Biol Interact** 1989;72(3):277–93

Distribution of non-telomeric sites of the (TTAGGG)n telomeric sequence in vertebrate chromosomes. Meyne J, et al. **Chromosoma** 1990 Apr;99(1):3–10

Analysis of dynamics trajectories of DNA and DNA–drug complexes. Galat A. **Comput Appl Biosci** 1989 Oct; 5(4):271–8

CORGEN: a FORTRAN-77 generator of standard and non-standard DNA helices from the sequence. Galat A. **Comput Appl Biosci** 1989 Oct;5(4):279–86

HYLAS: program for generating H curves (abstract three-dimensional representations of long DNA sequences). Hamori E, et al. **Comput Appl Biosci** 1989 Oct; 5(4):263–9

Identification of consensus patterns in unaligned DNA sequences known to be functionally related. Hertz GZ, et al. **Comput Appl Biosci** 1990 Apr;6(2):81–92

Statistical significance of some complex nucleotide combinations: a comparison of DNA models. Suboch GM, et al. **Comput Appl Biosci** 1990 Jan;6(1):43–8

Human chromosome-specific DNA libraries: construction and purity analysis. Fuscoe JC, et al. **Cytogenet Cell Genet** 1989;50(4):211–5

A somatic cell hybrid panel to facilitate identification of DNA sequences in the vicinity of the incontinentia pigmenti locus (IP1). Gorski JL, et al. **Cytogenet Cell Genet** 1989;52(1–2):90–2

Structure and chromosomal mapping of a highly polymorphic repetitive DNA sequence from the pseudoautosomal region of the mouse sex chromosomes. Harbers K, et al. **Cytogenet Cell Genet** 1990;53(2–3):129–33

Chromosome 7 long-arm deletions in myeloid disorders: terminal DNA sequences are commonly conserved and breakpoints vary. Kere J, et al. **Cytogenet Cell Genet** 1989; 50(4):226–9

Mammalian sex-chromosome evolution: a conserved homoeologous segment on the X and Y chromosomes in primates. Schempp W, et al. **Cytogenet Cell Genet** 1989; 50(4):201–5

How to deal with potential contaminations of monoclonal antibody preparations. Lucas CJ, et al. **Dev Biol Stand** 1990; 71:201–5

The three-way DNA junction is a Y-shaped molecule in which there is no helix–helix stacking. Duckett DR, et al. **EMBO J** 1990 May;9(5):1659–64

The role of metal ions in the conformation of the four-way DNA junction. Duckett DR, et al. **EMBO J** 1990 Feb; 9(2):583–90

The fluorescence properties of a DNA probe. 4'-6–Diamidino-2–phenylindole (DAPI). Barcellona ML, et al. **Eur Biophys J** 1990;17(6):315–23

A note on sequence-dependence of DNA structure. Galat A. **Eur Biophys J** 1990;17(6):331–42

Hydration structure in natural DNA observed by thermal neutron scattering. Grimm H, et al. **Eur Biophys J** 1989; 17(4):173–86

Determination of internal dynamics of deoxyriboses in the DNA hexamer d(CGTACG)2 by 1H NMR. Lane AN, et al. **Eur Biophys J** 1989;17(4):221–32

Conformational consequences of the incorporation of arabinofuranosylcytidine in DNA. An NMR study of the DNA fragments d(CGCTAGCG) and d(CGaCTAGCG) in solution. Pieters JM, et al. **Eur J Biochem** 1989 Sep 15; 184(2):415–25

Additional DNA long-range folding is an early process during stimulation of human lymphocytes. Hartwig M. **Exp Cell Res** 1990 Jul;189(1):148–50

High mobility group proteins 1 and 2 bind preferentially to brominated poly(dG–dC).poly(dG–dC) in the Z-DNA conformation but not to other types of Z-DNA. Christen T, et al. **FEBS Lett** 1990 Jul 2;267(1):139–41

The GC-selective ligand mithramycin alters the structure of (AT)n sequences flanking its binding sites. Cons BM, et al. **FEBS Lett** 1990 May 7;264(1):100–4

Footprinting studies on the sequence-selective binding of pentamidine to DNA. Fox KR, et al. **FEBS Lett** 1990 Jun 18;266(1–2):150–4

Action of spermidine, N1–acetylspermidine, and N8–acetylspermidine at apurinic sites in DNA. Haukanes BI, et al. **FEBS Lett** 1990 Sep 3;269(2):389–93

New reagent for discrimination of single- and double-stranded regions in DNA. Mazin AV, et al. **FEBS Lett** 1989 Dec 4;258(2):244–6

DNA methylation in Trypanosoma cruzi. Rojas MV, et al. **FEBS Lett** 1990 Apr 9;263(1):113–6

Raison d'être and structural model for the B–Z transition of poly d(G–C).poly d(G–C). Saenger W, et al. **FEBS Lett** 1989 Nov 6;257(2):223–7

Mediation of 8-hydroxy-guanine formation in DNA by thiazin dyes plus light. Floyd RA, et al. **Free Radic Biol Med** 1990;8(4):327–30

Bromodeoxyuridine (BrdUrd) immunohistochemistry in undecalcified plastic-embedded tissue. Elimination of the DNA denaturation step. Apte SS, et al. **Histochemistry** 1990;93(6):631–5

Romanowsky dyes and Romanowsky–Giemsa effect. 5. Structural investigations of the purple DNA–AB–EY dye complexes of Romanowsky–Giemsa staining. Friedrich K, et al. **Histochemistry** 1990;93(3):247–56

The beta subunit locus of the human fibronectin receptor: DNA restriction fragment length polymorphism and linkage mapping studies. Wu JS, et al. **Hum Genet** 1989 Nov;83(4):383–90

Frequency distribution of the alleles of several variable number of tandem repeat DNA polymorphisms in the Italian population. Gasparini P, et al. **Hum Hered** 1990; 40(2):61–8

Interpretation of DNA vibrational spectra by normal coordinate analysis. Ghomi M, et al. **Int J Biochem** 1990; 22(7):691–9 (35 ref.)

Automated Sanger DNA sequencing with one label in less than four lanes on gel. Ansorge W, et al. **J Biochem Biophys Methods** 1989;20(1):47–52

Orientation of dioxygen bound to cobalt(II) bleomycin–DNA fibers. Chikira M, et al. **J Biol Chem** 1989 Dec 25; 264(36):21478–80

Effect of 5-bromo- and 5-methyldeoxycytosine on duplex stability and discrimination of the NotI octadeoxynucleotide. Quantitative measurements using thin-layer chromatography. Hoheisel JD, et al. **J Biol Chem** 1990 Sep 25;265(27):16656–60

DNA base composition determines the specificity of UvrABC endonuclease incision of a psoralen cross-link. Jones BK, et al. **J Biol Chem** 1990 Feb 25;265(6):3489–96

Nuclease protection by Drosophila DNA topoisomerase II. Enzyme/DNA contacts at the strong topoisomerase II cleavage sites. Lee MP, et al. **J Biol Chem** 1989 Dec 25; 264(36):21779–87

DNase I cleavage of branched DNA molecules. Lu M, et al. **J Biol Chem** 1989 Dec 15;264(35):20851–4

Minimal DNA requirement for topoisomerase II–mediated

cleavage in vitro. Lund K, et al. J Biol Chem 1990 Aug 15;265(23):13856–63
Experimental DNA–binding and computer modelling studies on an analogue of the anti–tumor drug amsacrine. Abraham ZH, et al. J Biomol Struct Dyn 1988 Dec;6(3):471–88
IR and UV studies on stability and conformations of short DNA duplexes containing a no–base residue: coexistence of B and Z conformations. Adam S, et al. J Biomol Struct Dyn 1988 Aug;6(1):167–79
Computer modelling studies of the covalent interactions between DNA and the enantiomers of anti–7,8–diol,9,10–epoxy–benzo[a]pyrene. Aggarwal AK, et al. J Biomol Struct Dyn 1983 Dec;1(4):873–81
Fibre X–ray and conformational study of the binding of metal ions on DNA. Albiser G, et al. J Biomol Struct Dyn 1985 Feb;2(4):745–57
Influence of a mechanical tension on the B–A and B–C conformational transitions in DNA fibres. Albiser G, et al. J Biomol Struct Dyn 1988 Oct;6(2):359–66
The effect of sequence heterogeneity on DNA melting kinetics. Anshelevich VV, et al. J Biomol Struct Dyn 1986 Oct;4(2):251–62
Turn of promotor DNA by cAMP receptor protein characterized by bead model simulation of rotational diffusion. Antosiewicz J, et al. J Biomol Struct Dyn 1988 Feb;5(4):819–37
Conformational characteristics of mixed sugar puckered deoxytetranucleoside triphosphate d–GpCpGpC from energy minimization studies. Anukanth A, et al. J Biomol Struct Dyn 1989 Feb;6(4):801–14
Molecular structure, stereochemistry and interactions of steffimycin B, and DNA binding anthracycline antibiotic. Arora SK. J Biomol Struct Dyn 1985 Oct;3(2):377–85
Molecular structure, conformation and interactions of antitumor antibiotic cyanonaphthridinomycin, a covalent binder of DNA. Arora SK, et al. J Biomol Struct Dyn 1988 Dec;6(3):489–502
Presence of nonlinear excitations in DNA structure and their relationship to DNA premelting and to drug intercalation. Banerjee A, et al. J Biomol Struct Dyn 1983 Oct;1(1):253–62
Tris (phenanthroline) metal complexes: probes for DNA helicity. Barton JK. J Biomol Struct Dyn 1983 Dec; 1(3):621–32
A general procedure for generation of curved DNA molecules. Bhattacharya D, et al. J Biomol Struct Dyn 1988 Aug;6(1):93–104
A self–consistent formulation for analysis and generation of non–uniform DNA structures. Bhattacharyya D, et al. J Biomol Struct Dyn 1989 Feb;6(4):635–53
Conformation and dynamics of short DNA duplexes: (dC–dG)3 and (dC–dG)4. Borer PN, et al. J Biomol Struct Dyn 1984 Jun;1(6):1373–86
Linguistics of nucleotide sequences: morphology and comparison of vocabularies. Brendel V, et al. J Biomol Struct Dyn 1986 Aug;4(1):11–21
Structure of a Z–DNA with two different backbone chain conformations. Stabilization of the decadeoxyoligonucleotide d(CGTACGTACG) by [Co(NH3)6]3+ binding to the guanine. Brennan RG, et al. J Biomol Struct Dyn 1986 Feb;3(4):649–65
Influence of lipid membranes on the conformational transitions of nucleic acids. Brosius B, et al. J Biomol Struct Dyn 1986 Oct;4(2):271–90
Interaction of nucleic acids with lipid membranes. Brosius B, et al. J Biomol Struct Dyn 1984 Jun;1(6):1535–41
The effect of methylation of the 6 oxygen of guanine on the structure and stability of double helical DNA. Caldwell JW, et al. J Biomol Struct Dyn 1985 Aug;3(1):57–66
A re–examination of the crystal structure of A–DNA using fiber diffraction data. Chandrasekaran R, et al. J Biomol Struct Dyn 1989 Jun;6(6):1189–202
The synthetic DNA duplex of poly d(Abr5U).poly d(Abr5U) adopts an A–DNA–like structure. Chandrasekaran R, et al. J Biomol Struct Dyn 1989 Feb;6(4):715–27
Interaction of the antitumor antibiotic mitomycin C with Z–DNA. Chawla AK, et al. J Biomol Struct Dyn 1988 Dec;6(3):459–70
Hairpin formation of d(CGCG–TA–CGCG), d(CGCG–TG–CGCG) and their cytosine methylated analogs. Chen FM. J Biomol Struct Dyn 1989 Jun; 6(6):1239–57
Binding of enantiomers of trans–7,8–dihydroxy–anti–9,10–epoxy–7,8,9,10–tetrahydro–benzo[a]pyrene to polynucleotides. Chen FM. J Biomol Struct Dyn 1986 Dec;4(3):401–18
Pyrene as a sensitive probe for DNA conformational changes due to protonation. Chen FM. J Biomol Struct Dyn 1983 Dec;1(4):925–37
Possible role of long–range interactions in the proton transfer of model DNA systems. Chojnacki H, et al. J Biomol Struct Dyn 1985 Feb;2(4):759–65
Critical comments on the one recent DNA bending model and its fit to electrophoretic data. Chuprina VP. J Biomol Struct Dyn 1989 Aug;7(1):35–9; discussion 40a–40c
Structural basis of stable bending in DNA containing An tracts. Different types of bending. Chuprina VP, et al. J Biomol Struct Dyn 1988 Aug;6(1):121–38
Crystal structure of a Z–DNA fragment containing thymine/2–aminoadenine base pairs. Coll M, et al. J Biomol Struct Dyn 1986 Oct;4(2):157–72
Conformational changes in DNA and soft modes. Devi Prasad KV, et al. J Biomol Struct Dyn 1985 Dec;3(3):551–8
Determination of handedness of DNA double helices from NOE difference spectra: the structure of poly(dG–dC).poly(dG–dC) in low salt. Dhingra MM, et al. J Biomol Struct Dyn 1983 Oct;1(2):417–28
A stochastic model for helix bending in B–DNA. Dickerson RE, et al. J Biomol Struct Dyn 1983 Dec;1(3):755–71
Definitions and nomenclature of nucleic acid structure parameters. Dickerson RE. J Biomol Struct Dyn 1989 Feb; 6(4):627–34
Interpretation of DNA vibration modes: III—The behaviour of the sugar pucker vibration modes as a function of its pseudorotation parameters. Dohy D, et al. J Biomol Struct Dyn 1989 Feb;6(4):741–54
Structural and dynamic properties of a bromouracil–adenine base pair in DNA studied by proton NMR. Fazakerley GV, et al. J Biomol Struct Dyn 1987 Dec;5(3):639–50
Porphyrin–nucleic acid interactions: a review. Fiel RJ. J Biomol Struct Dyn 1989 Jun;6(6):1259–74 (59 ref.)
Application of polyelectrolyte theory to the study of the B–Z transition in DNA (1). Frank–Kamenetskii MD, et al. J Biomol Struct Dyn 1985 Aug;3(1):35–42
Agreement between single crystal X–ray and molecular mechanical sugar ring conformations. Garcia AE, et al. J Biomol Struct Dyn 1987 Dec;5(3):513–37
Stability and motion of a hairpin and the corresponding mismatched duplex: a theoretical exploration using molecular mechanics and normal mode analysis of 2D NMR results on d(GCCGCAGC). Garcia AE, et al. J Biomol Struct Dyn 1988 Dec;6(3):525–42
Stereoselective covalent binding of anti–benzo(a)pyrene diol epoxide to DNA conformation of enantiomer adducts. Geacintov NE, et al. J Biomol Struct Dyn 1984 Jun; 1(6):1473–84
Linear dichroism studies of conformations of carcinogen–DNA adducts application to covalent complexes derived from the reactions of the two enantiomers of 9,10–epoxy–9,10,11,12–tetrahydrobenzo(e)pyrene with DNA. Geacintov NE, et al. J Biomol Struct Dyn 1983 Dec;1(4):913–23
Visualizing the anatomy of A, B and Z–DNAs. Geis I. J Biomol Struct Dyn 1983 Dec;1(3):581–91
Ab–initio quantum mechanical calculations of NMR chemical shifts in nucleic acids constituents. III. Chemical shift variations due to base stacking. Giessner–Prettre C. J Biomol Struct Dyn 1986 Aug;4(1):99–110
Two–fold symmetry of crystalline DNA–EcoRI endonuclease recognition complexes. Grable J, et al. J Biomol Struct Dyn 1984 Mar;1(5):1149–60
Left–handed intercalated DNA double helix: rendezvous of ethidium and actinomycin D in the Z–helical conformation space. Gupta G, et al. J Biomol Struct Dyn 1983 Oct; 1(1):97–113
Structure, kinetics and thermodynamics of DNA hairpin fragments in solution. Haasnoot CA, et al. J Biomol Struct Dyn 1983 Oct;1(1):115–29 (20 ref.)
Characteristic features of thermal stability map of DNA in Escherichia coli and eukaryotic genes. Hanai R, et al. J Biomol Struct Dyn 1988 Aug;6(1):51–62
Base–stacking interactions in double–helical DNA structures: experiment versus theory. Haran TE, et al. J Biomol Struct Dyn 1984 Oct;2(2):397–412
Energy minimized structures of carcinogen–DNA adducts: 2–acetylaminofluorene and 2–aminofluorene. Hingerty BE, et al. J Biomol Struct Dyn 1986 Dec;4(3):365–72
The interactions of ruthenium hexaammine with Z–DNA: crystal structure of a Ru(NH3)6+3 salt of d(CGCGCG) at 1.2 A resolution. Ho PS, et al. J Biomol Struct Dyn 1987 Feb;4(4):521–34
Structural features and hydration of d(C–G–C–G–A–A–T–T–A–G–C–G); a double helix containing two G.A mispairs. Hunter WN, et al. J Biomol Struct Dyn 1986 Oct;4(2):173–91
Parallel double helices of DNA. Conformational analysis of regular helices with the second order symmetry axis. Il'ychova IA, et al. J Biomol Struct Dyn 1990 Feb; 7(4):879–97
Three–state diagram for DNA. Ivanov VI, et al. J Biomol Struct Dyn 1985 Aug;3(1):43–55
B–A transition in DNA. Ivanov VI, et al. J Biomol Struct Dyn 1983 Oct;1(2):453–60
Dependence of the electrophoretic mobility of DNA in gels on field intermittency. Jamil T, et al. J Biomol Struct Dyn 1985 Feb;2(5):963–6
Hydrophobic interactions in the major groove can influence DNA local structure. Jernigan RL, et al. J Biomol Struct Dyn 1986 Aug;4(1):41–8
High–speed DNA sequencing: an approach based upon fluorescence detection of single molecules. Jett JH, et al. J Biomol Struct Dyn 1989 Oct;7(2):301–9
Contribution of the resonance Raman spectroscopy to the identification of Z DNA. Jollès B, et al. J Biomol Struct Dyn 1984 Jun;1(6):1335–46
Left–handed DNA: from synthetic polymers to chromosomes. Jovin TM, et al. J Biomol Struct Dyn 1983 Oct;1(1):21–57 (127 ref.)
Denaturation of nucleic acids induced by intercalating agents. Biochemical and biophysical properties of acridine orange–DNA complexes. Kapuscinski J, et al. J Biomol Struct Dyn 1984 Jun;1(6):1485–99
Thermodynamics of B–Z transition of poly[d(G–C)] in a water–ethanol solution. The "tie calorimetry". Karapetyan AT, et al. J Biomol Struct Dyn 1989 Jun;6(6):1233–8
Structural studies of DNA fragments: the G.T wobble base pair in A, B and Z DNA; the G.A base pair in B–DNA. Kennard O. J Biomol Struct Dyn 1985 Oct;3(2):205–26
Ordered water structure in an A–DNA octamer at 1.7 A resolution. Kennard O, et al. J Biomol Struct Dyn 1986 Feb;3(4):623–47
Conformations of complexes derived from the interactions of two stereoisomeric bay–region 5–methylchrysene diol epoxides with DNA. Kim MH, et al. J Biomol Struct Dyn 1986 Apr;3(5):949–65
Variance of writhe for wormlike DNA rings with excluded volume. Klenin KV, et al. J Biomol Struct Dyn 1989 Feb; 6(4):707–14
High–field 1H and 31P NMR studies on the binding of the anticancer agent mitoxantrone to d[CpGpApTpCpG]2. Kotovych G, et al. J Biomol Struct Dyn 1986 Aug; 4(1):111–25
The kinetics of DNA helix–coil subtransitions. Kozyavkin SA, et al. J Biomol Struct Dyn 1986 Feb;3(4):689–704
NMR studies of tris–intercalation: solution structure and interaction of d(CTTCGCGCGAAG) with an acridine trimer. Laugaa P, et al. J Biomol Struct Dyn 1988 Dec; 6(3):421–41
The dependence of the surface electrostatic potential of B–DNA on environmental factors. Lavery R, et al. J Biomol Struct Dyn 1985 Feb;2(5):1021–32
Defining the structure of irregular nucleic acids: conventions and principles. Lavery R, et al. J Biomol Struct Dyn 1989 Feb;6(4):655–67
The definition of generalized helicoidal parameters and of axis curvature for irregular nucleic acids. Lavery R, et al. J Biomol Struct Dyn 1988 Aug;6(1):63–91
Binding of non–intercalating antibiotics to B–DNA: a theoretical study taking into account nucleic acid flexibility. Lavery R, et al. J Biomol Struct Dyn 1986 Jun;3(6):1155–70
The flexibility of the nucleic acids: (II). The calculation of internal energy and applications to mononucleotide repeat DNA. Lavery R, et al. J Biomol Struct Dyn 1986 Apr; 3(5):989–1014
The flexibility of the nucleic acids: (III). The interaction of an aliphatic diamine, putrescine, with flexible B–DNA. Lavery R, et al. J Biomol Struct Dyn 1986 Apr;3(5):1015–31
Interpretation of DNA vibration modes: I—The guanosine and cytidine residues involved in poly(dG–dC).poly(dG–dC) and d(CG)3.d(CG)3. Letellier R, et al. J Biomol Struct Dyn 1986 Feb;3(4):671–87
Interpretation of DNA vibration modes. II—The adenosine and thymidine residues involved in oligonucleotides and polynucleotides. Letellier R, et al. J Biomol Struct Dyn 1987 Feb;4(4):663–83
Interpretation of DNA vibration modes: IV—A single–helical approach to assign the phosphate–backbone contribution to the vibrational spectra in A and B conformations. Letellier R, et al. J Biomol Struct Dyn 1989 Feb;6(4):755–68
A computer graphics study of sequence–directed bending in DNA. Levene SD, et al. J Biomol Struct Dyn 1983 Oct; 1(2):429–35
Understanding DNA conformational dynamics: answering questions and questioning answers. Levy GC, et al. J Biomol Struct Dyn 1983 Dec;1(3):795–808
FTIR study of netropsin binding to poly d(A–T) and poly dA.poly dT. Liquier J, et al. J Biomol Struct Dyn 1989 Aug;7(1):119–26
Flexibility difference between double–stranded RNA and DNA as revealed by gel electrophoresis. Livshits MA, et al. J Biomol Struct Dyn 1990 Jun;7(6):1237–49
Possible molecular detent in the DNA structure at regulatory sequences. Lu P, et al. J Biomol Struct Dyn 1983 Oct; 1(2):509–21 (68 ref.)
An estimate of the extent of folding of nucleosomal DNA by laterally asymmetric neutralization of phosphate groups. Manning GS, et al. J Biomol Struct Dyn 1989 Apr; 6(5):877–89
Self–attraction and natural curvature in null DNA. Manning GS. J Biomol Struct Dyn 1989 Aug;7(1):41–61 (49 ref.)
dC–dG alternating oligonucleotides: thermodynamic and kinetic aspects of the B–Z transformation. Manzini G, et al. J Biomol Struct Dyn 1987 Feb;4(4):651–62
Different binding modes of spermine to A–T and G–C base pairs modulate the bending and stiffening of the DNA double helix. Marquet R, et al. J Biomol Struct Dyn 1988 Oct;6(2):235–46
A study of DNA melting in concentrated water–alcohol solutions. Mikhailenko IA, et al. J Biomol Struct Dyn 1984 Jun;1(6):1501–10
CC/GG contacts facilitate the B to A transition of DNA in solution. Minchenkova LE, et al. J Biomol Struct Dyn 1986 Dec;4(3):463–76
The Z–conformation of poly(dA–dT).poly(dA–dT) in solution as studied by ultraviolet resonance Raman spectroscopy. Miskovsky P, et al. J Biomol Struct Dyn 1989 Dec;7(3):623–37
The concentration dependence of the right to left conformational transition in natural DNA identified by Raman spectroscopy. Miskovsky P, et al. J Biomol Struct Dyn 1989 Apr;6(5):915–27
Solitons in DNA. Muto V, et al. J Biomol Struct Dyn 1988 Feb;5(4):873–94
Length–dependent cruciform extrusion in d(GTAC)n

sequences. Naylor LH, et al. J Biomol Struct Dyn 1988 Feb;5(4):895–912
Strong patterns in homooligomer tracts occurrences in non–coding and in potential regulatory sites in eukaryotic genomes. Nussinov R, et al. J Biomol Struct Dyn 1989 Dec; 7(3):707–22
Sequence context of oligomer tracts in eukaryotic DNA: biological and conformational implications. Nussinov R, et al. J Biomol Struct Dyn 1988 Dec;6(3):543–62
TGTG, G clustering and other signals near non–mammalian vertebrate mRNA 3' termini: some implications. Nussinov R. J Biomol Struct Dyn 1986 Jun;3(6):1145–53
Left–handed Z–DNA helices in polymers, restriction fragments, and recombinant plasmids. O'Connor T, et al. J Biomol Struct Dyn 1983 Dec;1(4):999–1009
High resolution structural studies of Cro repressor protein and implications for DNA recognition. Ohlendorf DH, et al. J Biomol Struct Dyn 1983 Oct;1(2):553–63
Systematic analysis of possible hydrogen bonds between amino acid side chains and B–form DNA. Pabo CO, et al. J Biomol Struct Dyn 1983 Dec;1(4):1039–49
A detailed study of Li–DNA fibres at various salt concentrations reveals a non–helical B–DNA and a possible similarity of solution and solid state structures. Parrack PK, et al. J Biomol Struct Dyn 1984 Aug;2(1):149–57
An iterative approach to placing counterions around DNA. Pattabiraman N, et al. J Biomol Struct Dyn 1984 Jun; 1(6):1525–33
Conformational flexibility of the furanose ring in DNA and its dipole moment. Pechenaya VI. J Biomol Struct Dyn 1989 Oct;7(2):381–8
Linguistics of nucleotide sequences. II: Stationary words in genetic texts and the zonal structure of DNA. Pevzner PA, et al. J Biomol Struct Dyn 1989 Apr;6(5):1027–38
1–Tuple DNA sequencing: computer analysis. Pevzner PA. J Biomol Struct Dyn 1989 Aug;7(1):63–73 (12 ref.)
Interaction of the C14–OH group of adriamycin with DNA phosphate as spectroscopically evidenced. Pohle W, et al. J Biomol Struct Dyn 1986 Oct;4(2):243–50
Monte–Carlo simulation of DNA duplex hydration. B and B' conformations of poly(dA).poly(dT) have different hydration shells. Poltev VI, et al. J Biomol Struct Dyn 1988 Dec;6(3):575–86
Conformational characteristics of mixed sugar puckered deoxydinucleoside triphosphate units d–pCpGp and d–pGpCp from energy minimization studies. Ponnuswamy PK, et al. J Biomol Struct Dyn 1989 Feb;6(4):781–800
Two–dimensional 1H and 31P NMR spectra of a decamer oligodeoxyribonucleotide duplex and a quinoxaline ((MeCys3, MeCys7]TANDEM) drug duplex complex. Powers R, et al. J Biomol Struct Dyn 1989 Dec;7(3):515–56
Calculated frequency spectrum of Z–form poly(dG–dC).poly(dG–dC). Prasad KV, et al. J Biomol Struct Dyn 1984 Dec;2(3):627–35
Conformations of C–DNA in agreement with fiber X–ray and infrared dichroism. Premilat S, et al. J Biomol Struct Dyn 1984 Dec;2(3):607–13
On long range non–bonded forces in the double helix for frequencies between tens of kilohertz and 100 wavenumbers. Prohofsky EW. J Biomol Struct Dyn 1984 Dec;2(3):637–40
Electrostatics of Polymorphic DNA. Pullman B. J Biomol Struct Dyn 1983 Dec;1(3):773–94
Conformational features of DNA containing a cis–syn photodimer. Raghunathan G, et al. J Biomol Struct Dyn 1990 Feb;7(4):899–913
Crystal and molecular structure of the ammonium salt of the dinucleoside monophosphate d(CpG). Ramakrishnan B, et al. J Biomol Struct Dyn 1988 Dec;6(3):511–23
Theoretical modeling of DNA–monocationic lexitropsin complexation: influence of ligand binding on DNA curvature. Randrianarivelo M, et al. J Biomol Struct Dyn 1989 Feb;6(4):769–79
Three dimensional association of double–stranded helices are produced in conditions for Z–DNA formation. Revet B, et al. J Biomol Struct Dyn 1983 Dec;1(4):857–71
Stabilization and detection of natural left–handed Z–DNA. Rich A, et al. J Biomol Struct Dyn 1983 Oct;1(1):1–19 (40 ref.)
Conformational analysis of the deoxyribofuranose ring in DNA by means of sums of proton–proton coupling constants: a graphical method. Rinkel LJ, et al. J Biomol Struct Dyn 1987 Feb;4(4):621–49
A parallel stranded linear DNA duplex incorporating dG.dC base pairs. Rippe K, et al. J Biomol Struct Dyn 1990 Jun; 7(6):1199–209
Studies on bleomycin–DNA and bleomycin–iron interactions. Sakai TT, et al. J Biomol Struct Dyn 1983 Dec;1(3):809–27 (31 ref.)
A model of the strain–induced B–Z transition. Sarai A, et al. J Biomol Struct Dyn 1985 Feb;2(4):767–84
Untenability of the heteronomous DNA model for poly(dA).poly(dT) in solution. This DNA adopts a right–handed B–DNA duplex in which the two strands are conformationally equivalent. A 500 MHz NMR study using one dimensional NOE. Sarma MH, et al. J Biomol Struct Dyn 1985 Jun;2(6):1057–84
During B–Z transition there is no large scale breakage of Watson–Crick base pairs. A direct demonstration using 500 MHz 1H NMR spectroscopy. Sarma MH, et al. J Biomol Struct Dyn 1983 Oct;1(1):59–81
New nomenclature for nucleic acid helix parameters Cambridge, UK, September 14, 1988. Sarma RH. J Biomol Struct Dyn 1988 Dec;6(3):391–5
Distamycin and penta–N–methylpyrrolecarboxamide binding sites on native DNA. A comparison of methidiumpropyl–EDTA–Fe(II) footprinting and DNA affinity cleaving. Schultz PG, et al. J Biomol Struct Dyn 1984 Mar;1(5):1133–47
Dynamics of drug–DNA interactions: a comparative temperature jump study of ellipticinium and 9–hydroxy ellipticinium. Schwaller MA, et al. J Biomol Struct Dyn 1988 Dec;6(3):443–58
A study of the B–A transition in DNA by gel electrophoresis. Shlyakhtenko LS. J Biomol Struct Dyn 1984 Jun; 1(6):1511–23
A rigorous basepair oriented description of DNA structures. Soumpasis DM, et al. J Biomol Struct Dyn 1988 Dec; 6(3):397–420
Effects of DNA sequence and conformation on nucleosome formation. Soumpasis DM. J Biomol Struct Dyn 1985 Aug; 3(1):1–10
Salt dependence of DNA structural stabilities in solution. Theoretical predictions versus experiments. Soumpasis DM. J Biomol Struct Dyn 1988 Dec;6(3):563–74
Relative stabilities and transitions of DNA conformations in 1:1 electrolytes: a theoretical study. Soumpasis DM, et al. J Biomol Struct Dyn 1987 Feb;4(4):535–52
Base pair buckling can eliminate the interstrand purine clash at the CpG steps in B–DNA caused by the base pair propeller twisting. Sponer J, et al. J Biomol Struct Dyn 1990 Jun;7(6):1211–20
Statistical analysis of nucleotide runs in coding and noncoding DNA sequences. Sprizhitsky YuA, et al. J Biomol Struct Dyn 1988 Oct;6(2):345–58
Base sequence effects in double helical DNA. I. Potential energy estimates of local base morphology. Srinivasan AR, et al. J Biomol Struct Dyn 1987 Dec;5(3):459–96
Crystallographic studies of protein–nucleic acid interaction: catabolite gene activator protein and the large fragment of DNA polymerase I. Steitz TA, et al. J Biomol Struct Dyn 1983 Dec;1(4):1023–37
A theoretical study of the aqueous hydration of canonical B d(CGCGAATTCGCG): Monte Carlo simulation and comparison with crystallographic ordered water sites. Subramanian PS, et al. J Biomol Struct Dyn 1989 Jun; 6(6):1093–122 (109 ref.)
A comparison of six DNA bending models. Tan RK, et al. J Biomol Struct Dyn 1987 Dec;5(3):497–512
Interactions of molecules with nucleic acids. X. Covalent intercalative binding of the carcinogenic BPDE I(+) to kinked DNA. Taylor ER, et al. J Biomol Struct Dyn 1983 Dec;1(4):883–904
Conformational transitions of polynucleotides in the presence of rhodium complexes. Thomas TJ, et al. J Biomol Struct Dyn 1990 Jun;7(6):1221–35
Structure of the nucleosome core particle at 8 A resolution. Uberbacher EC, et al. J Biomol Struct Dyn 1989 Aug; 7(1):1–18 (55 ref.)
Hybrid oligomer of cyclonucleotides and deoxynucleotides. A high anti left–handed double helical DNA structure. Uesugi S, et al. J Biomol Struct Dyn 1985 Oct;3(2):339–47
Sequence–dependent anisotropic flexibility of B–DNA. A conformational study. Ulyanov NB, et al. J Biomol Struct Dyn 1984 Oct;2(2):361–85
Why structured water causes sharp absorption by DNA at microwave frequencies. Van Zandt LL. J Biomol Struct Dyn 1987 Feb;4(4):569–82
A theorem on Boussinesq solitons or why soliton formation sharpens resonant absorption and why this has nothing to do with real polymers. Van Zandt LL. J Biomol Struct Dyn 1986 Oct;4(2):309–17
Allowance for heterogeneous stacking in the DNA helix–coil transition theory. Vologodskii AV, et al. J Biomol Struct Dyn 1984 Aug;2(1):131–48
Poly(amino2dA–dT) isomerizes into the unusual X–DNA double helix at physiological conditions inducing Z–DNA in poly (dG–methyl5dC). Vorlickova M, et al. J Biomol Struct Dyn 1988 Dec;6(3):503–10
Divalent cations are not required for the stability of the low–salt Z–DNA conformation in poly(dG–ethyl5dC). Vorlicková M, et al. J Biomol Struct Dyn 1989 Oct; 7(2):329–34
Monte–Carlo–self consistent field method in the polyelectrolyte theory. Vorontsov–Velyaminov PN, et al. J Biomol Struct Dyn 1989 Dec;7(3):739–47
Changes in conformation, stability and condensation of DNA by univalent and divalent cations in methanol–water mixtures. Votavová H, et al. J Biomol Struct Dyn 1986 Dec;4(3):477–89
Interactions of quinoxaline antibiotic and DNA: the molecular structure of a triostin A–d(GCGTACGC) complex. Wang AH, et al. J Biomol Struct Dyn 1986 Dec; 4(3):319–42
Raman spectroscopy study of the B–Z transition in (dG–dC)n.(dG–dC)n and a DNA restriction fragment. Wartell RM, et al. J Biomol Struct Dyn 1983 Oct;1(1):83–96 (22 ref.)
Low frequency Raman spectra of Z–DNA. Weidlich T, et al. J Biomol Struct Dyn 1990 Feb;7(4):849–58
Z–DNA is formed by poly (dC–dG) and poly (dm5C–dG) at micro or nanomolar concentrations of some zinc(II) and copper(II) complexes. Woisard A, et al. J Biomol Struct Dyn 1985 Jun;2(6):1205–20
The left–handed Z–DNA conformation in oligodeoxynucleotides containing different amounts of AT base pairs: a far UV circular dichroism study. Xodo LE, et al. J Biomol Struct Dyn 1989 Jun;6(6):1217–31
The duplex–hairpin conformational transition of d(CGCGCGATCGCGCG) and d(CGCGCGTACGCGCG): a thermodynamic and kinetic study. Xodo LE, et al. J Biomol Struct Dyn 1988 Aug; 6(1):139–52
The effect of spermine binding on the reactivity of DNA towards carcinogenic alkylating agents. Zakrzewska K, et al. J Biomol Struct Dyn 1985 Dec;3(3):437–44
A theoretical investigation of the sequence specificity in the binding of the antitumor drug anthramycin to DNA. Zakrzewska K, et al. J Biomol Struct Dyn 1986 Aug; 4(1):127–36
Intercalative DNA binding of model compounds derived from metabolites of 7,12–dimethylbenz[a]anthracene. Zegar IS, et al. J Biomol Struct Dyn 1984 Dec;2(3):531–41
Sequence–dependent bending of DNA and phasing of nucleosomes. Zhurkin VB. J Biomol Struct Dyn 1985 Feb; 2(4):785–804
Sequence and tissue distribution of a second protein of hepatic gap junctions, Cx26, as deduced from its cDNA. Zhang JT, et al. J Cell Biol 1989 Dec;109(6 Pt 2):3391–401
Molecular cloning of CD31, a putative intercellular adhesion molecule closely related to carcinoembryonic antigen. Simmons DL, et al. J Exp Med 1990 Jun 1;171(6):2147–52
Evaluation of transforming growth factor beta and type I procollagen gene expression in fibrotic skin diseases by in situ hybridization. Peltonen J, et al. J Invest Dermatol 1990 Mar;94(3):365–71
Influence of pH on the conformation and stability of mismatch base–pairs in DNA. Brown T, et al. J Mol Biol 1990 Apr 5;212(3):437–40 (17 ref.)
Structure of a T4 hairpin loop on a Z–DNA stem and comparison with A–RNA and B–DNA loops. Chattopadhyaya R, et al. J Mol Biol 1990 Jan 5; 211(1):189–210
Energetics of B–Z junction formation in a sixteen base–pair duplex DNA. Doktycz MJ, et al. J Mol Biol 1990 Mar 5;212(1):3–6
Visualization of RecA protein and its complexes with DNA by quick–freeze/deep–etch electron microscopy. Heuser J, et al. J Mol Biol 1989 Dec 5;210(3):473–84
Determining local conformational variations in DNA. Nuclear magnetic resonance structures of the DNA duplexes d(CGCCTAATCG) and d(CGTCACGCGC) generated using back–calculation of the nuclear Overhauser effect spectra, a distance geometry algorithm and constrained molecular dynamics. Metzler WJ, et al. J Mol Biol 1990 Aug 5;214(3):711–36
Mutant rho factors with increased transcription termination activities. II. Identification and functional dissection of amino acid changes. Mori H, et al. J Mol Biol 1989 Nov 5;210(1):39–49
Atomic charges for DNA constituents derived from single–crystal X–ray diffraction data. Pearlman DA, et al. J Mol Biol 1990 Jan 5;211(1):171–87
Primary structure of the silk fibroin light chain determined by cDNA sequencing and peptide analysis. Yamaguchi K, et al. J Mol Biol 1989 Nov 5;210(1):127–39
Comment on DNA hybridization issues raised at Lake Arrowhead. Britten RJ. J Mol Evol 1990 Mar;30(3):193–5
The future of DNA–DNA hybridization studies. Diamond JM. J Mol Evol 1990 Mar;30(3):196–201
The TEACL method of DNA–DNA hybridization: technical considerations. Powell JR, et al. J Mol Evol 1990 Mar; 30(3):267–72
Indexes to the reassociation and stability of solution DNA hybrids. Sheldon FH, et al. J Mol Evol 1989 Oct; 29(4):328–43
Chemical and photochemical probing of DNA complexes. Nielsen PE. J Mol Recognit 1990 Feb;3(1):1–25 (397 ref.)
Phosphorescence of nucleic acids and DNA components at 77 K. Görner H. J Photochem Photobiol B 1990 May; 5(3–4):359–77
The general stochastic model of nucleotide substitution. Rodríguez F, et al. J Theor Biol 1990 Feb 22;142(4):485–501
Molecular recognition and information gain. Sarai A. J Theor Biol 1989 Sep 11;140(1):137–43
An intercalative and minor groove binding model for the DNA cleavage reagent, copper(I) (1,10–phenanthroline)2. Stockert JC. J Theor Biol 1989 Mar 7;137(1):107–11
Conformational transition dynamics and the mechanism of long–range effects in DNA. Volkov SN. J Theor Biol 1990 Apr 23;143(4):485–96
Molecular cloning of a complementary DNA to rat cyclophilin–like protein mRNA. Iwai N, et al. Kidney Int 1990 Jun;37(6):1460–5
Self–organisation and living systems: Is DNA an 'artificial intelligence'? Adams DH. Med Hypotheses 1989 Aug; 29(4):223–9
Z–DNA affinity chromatography. Fishel R, et al. Methods Enzymol 1990;184:328–40
Preparation and uses of photobiotin. McInnes JL, et al. Methods Enzymol 1990;184:588–600
Direct incorporation of biotin into DNA. Wilchek M, et al. Methods Enzymol 1990;184:608–12
Successful detection by in situ cDNA hybridization of three members of the serpin family: angiotensinogen, alpha 1 protease inhibitor, and antithrombin III in human

hepatocytes. Gaillard-Sanchez I, et al. **Med Pathol** 1990 Mar;3(2):216–22

Cloning and characterization of an Onchocerca volvulus specific DNA sequence. Meredith SE, et al. **Mol Biochem Parasitol** 1989 Aug;36(1):1–10

Characterization of a Trypanosoma cruzi specific nuclear repeated sequence. Wincker P, et al. **Mol Biochem Parasitol** 1990 Jun;41(1):147–52

The involucrin gene of the orangutan: generation of the late region as an evolutionary trend in the hominoids. Djian P, et al. **Mol Biol Evol** 1989 Sep;6(5):469–77

Initial studies of a phytoestrogen-deoxyribonucleic acid interaction. Lehner AF, et al. **Mol Endocrinol** 1987 May; 1(5):377–87

Use of in vivo and in vitro assays for the characterization of mammalian excision repair and isolation of repair proteins. Hoeijmakers JH, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):223–38 (55 ref.)

Hydrolysis of N3-methyl-2'-deoxycytidine: model compound for reactivity of protonated cytosine residues in DNA. Sowers LC, et al. **Mutat Res** 1989 Nov; 215(1):131–8

Software for smart users. **Nature** 1990 Feb 15;343(6259):673–6

Advances in automated DNA sequencing. Cathcart R. **Nature** 1990 Sep 20;347(6290):310

Chemistry. A new twist to self-assembly [news; comment] Constable EC. **Nature** 1990 Jul 26;346(6282):314–5 Comment on: Nature 1990 Jul 26;346(6282):339–42.

Dependence of the torsional rigidity of DNA on base composition. Fujimoto BS, et al. **Nature** 1990 Mar 8; 344(6262):175–7

DNH deoxyribonucleohelicates: self assembly of oligonucleosidic double-helical metal complexes [see comments] Koert U, et al. **Nature** 1990 Jul 26; 346(6282):339–42 Comment in: Nature 1990 Jul 26;346(6282):314–5.

Is non-isotopic in situ hybridization finally coming of age? Lichter P, et al. **Nature** 1990 May 3;345(6270):93–4

A sodium-potassium switch in the formation of four-stranded G4-DNA. Sen D, et al. **Nature** 1990 Mar 29; 344(6265):410–4

The conformation of the DNA double helix in the crystal is dependent on its environment. Shakked Z, et al. **Nature** 1989 Nov 23;342(6248):456–60

Unusual helical packing in crystals of DNA bearing a mutation hot spot. Timsit Y, et al. **Nature** 1989 Oct 5; 341(6241):459–62

Database activity in Japan [letter] Tsugita A. **Nature** 1990 Aug 16;346(6285):604

Electrophoretic behavior of d(GGAAAAAAGG)n, d(CCAAAAAACC)n, and (CCAAAAAAGG)n and implications for a DNA bending model. Abagyan RA, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):989–92

B to Z transitions of the short DNA hairpins formed from the oligomer sequences: d[(CG)3X4(CG)3] (X = A, T, G, C). Amaratunga M, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):577–82

DNA-sequence and metal-ion specificity of the formation of ^{4}H-DNA. Bernués J, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4067–73

DNA with adenine tracts contains poly(dA).poly(dT) conformational features in solution. Brahms S, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1559–64

An NMR structural study of deaminated base pairs in DNA. Carbonnaux C, et al. **Nucleic Acids Res** 1990 Jul 25; 18(14):4075–81

DNA tertiary structures formed in vitro by misaligned hybridization of multiple tandem repeat sequences. Coggins LW, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7417–26

The structure and hydration of the A-DNA fragment d(GGGTACCC) at room temperature and low temperature. Eisenstein M, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3185–94

Perturbation of DNA hairpins containing the EcoRI recognition site by hairpin loops of varying size and composition: physical (NMR and UV) and enzymatic (EcoRI) studies. Germann MW, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1489–98

The sensitivity of DNA cleavage by SnoI to methylation by M.EcoK. Hofer B, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8009

Control of partial digestion combining the enzymes dam methylase and MboI. Hoheisel JD, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9571–82

Non-contiguous regions of Z-DNA in a DNA dodecamer. Hua N, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7923–44

A new model for the bending of DNAs containing the oligo(dA) tracts based on NMR observations. Katahira M, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):613–8

Unbiased amplification of a highly complex mixture of DNA fragments by 'lone linker'-tagged PCR. Ko MS, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4293–4

High speed DNA sequencing by capillary electrophoresis. Luckey JA, et al. **Nucleic Acids Res** 1990 Aug 11; 18(15):4417–21

An improvement in thymine specific chemical DNA sequencing. McCarthy JG. **Nucleic Acids Res** 1989 Sep 25;17(18):7541

Formation of a DNA monofunctional cis-platinum adduct cross-linking the intercalating drug N-methyl-2,7-diazapyrenium. Malinge JM, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3887–91

Guanine tracts enhance sequence directed DNA bends. Milton DL, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):817–20

Proton exchange and base-pair opening kinetics in 5'-d(CGCGAATTCGCG)-3' and related dodecamers. Moe JG, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):821–7

Design of PCR primers that detect only mRNA in the presence of DNA. Moore RE, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1921

DNA conformational analysis in solution by uranyl mediated photocleavage. Nielsen PE, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3847–51

Detection of latent sequence periodicities. Pizzi E, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3745–52

Effect of monovalent cation-induced telomeric DNA structure on the binding of Oxytricha telomeric protein. Raghuraman MK, et al. **Nucleic Acids Res** 1990 Aug 11; 18(15):4543–52

Interaction of novel bis(platinum) complexes with DNA. Roberts JD, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):9719–33

In-gel hybridization of DNA separated by pulsed field agarose gel electrophoresis. Son M, et al. **Nucleic Acids Res** 1990 May 25;18(10):3098

pSH4: a mammalian cDNA expression vector. Vasavada HA, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3668

The stereochemistry of a four-way DNA junction: a theoretical study. von Kitzing E, et al. **Nucleic Acids Res** 1990 May 11;18(9):2671–83

A non-curved chicken lysozyme 5' matrix attachment site is 3' followed by a strongly curved DNA sequence. von Kries JP, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3881–5

Thermodynamics of the interactions of m-AMSA and o-AMSA with nucleic acids: influence of ionic strength and DNA base composition. Wadkins RM, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9933–46

Characterization and organization of DNA sequences adjacent to the human telomere associated repeat (TTAGGG)n. Weber B, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3353–61

Rapid procedure for chemical sequencing of small oligonucleotides without ethanol precipitation. Williamson JR, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):379

Spectroscopic and calorimetric investigation on the DNA triplex formed by d(CTCTTCTTTCTTTTCTTTCTTCTC) and d(GAGAAGAAAGA) at acidic pH. Xodo LE, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3557–64

The molecular structure of Okazaki fragment r(CGCA)d(AAAAAGCG):d(CGCTTTTTTGCG) in solution. Fujii S, et al. **Nucleic Acids Symp Ser** 1989; (21):67–8

A new model for DNA bending on the basis of gradual compression of the minor groove from 5' to 3' along the oligo(dA) tract. Katahira M, et al. **Nucleic Acids Symp Ser** 1989;(21):69–70

NMR studies on DNA hairpin structures with a five nucleotide loop. Uesugi S, et al. **Nucleic Acids Symp Ser** 1989;(21):65–6

Photolytic covalent binding of indoleacrylic acid to DNA. Farrow SJ, et al. **Photochem Photobiol** 1990 Mar; 51(3):263–71

The triplet state as a probe of dynamics and structure in biological macromolecules. Geacintov NE, et al. **Photochem Photobiol** 1989 Dec;50(6):841–58 (123 ref.)

A porphyrin-DNA exciplex: resonance Raman spectra of electronically excited Cu(TMpy-P4) bound to poly(dA-dT).poly(dA-dT). Turpin PY, et al. **Photochem Photobiol** 1990 May;51(5):519–25

DNA polymorphism and globin chain analysis in the prenatal diagnosis of beta-thalassaemia major in Taiwan. Ko TM, et al. **Prenat Diagn** 1990 Apr;10(4):237–44

Tandemly repeated DNA sequences of the centromere resulting in 18p+ [letter] Verma RS, et al. **Prenat Diagn** 1989 Dec;9(12):863–5

DNA and spermidine provide a switch mechanism to regulate the activity of restriction enzyme Nae I. Conrad M, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9707–11

Geometry of a branched DNA structure in solution. Cooper JP, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7336–40

Why do A.T base pairs inhibit Z-DNA formation? Dang LX, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4630–4

Sequence-specific recognition and cleavage of duplex DNA via triple-helix formation by oligonucleotides covalently linked to a phenanthroline-copper chelate. François JC, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9702–6

Monte Carlo description of oligoelectrolyte properties of DNA oligomers: range of the end effect and the approach of molecular and thermodynamic properties to the polyelectrolyte limits. Olmsted MC, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7766–70

G-DNA: a twice-folded DNA structure adopted by single-stranded oligo(dG) and its implications for telomeres. Panyutin IG, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):867–70

Sequence-specific intercalating agents: intercalation at specific sequences on duplex DNA via major groove recognition by oligonucleotide-intercalator conjugates. Sun JS, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9198–202

Structure of nogalamycin bound to a DNA hexamer. Williams LD, et al. **Proc Natl Acad Sci U S A** 1990 Mar; 87(6):2225–9

Calculating percent identity between protein or DNA sequences with a word processor. Ladror US. **Protein Seq Data Anal** 1990 Jul;3(3):267–71

Association between the division delay target and DNA late in the cell cycle. Schneiderman MH, et al. **Radiat Res** 1990 Jun;122(3):337–40

Department of Health and Human Services, Public Health Service, National Institutes of Health. Recombinant DNA Advisory Committee, Revision of the NIH Guidelines Subcommittee. Minutes of meeting, June 5, 1989. **Recomb DNA Tech Bull** 1989 Sep;12(3):171–82

When science takes the witness stand. Neufeld PJ, et al. **Sci Am** 1990 May;262(5):46–53

Mathematics untwists the double helix [news] Cipra B. **Science** 1990 Feb 23;247(4945):913–5

Volatilization of high molecular weight DNA by pulsed laser ablation of frozen aqueous solutions. Nelson RW, et al. **Science** 1989 Dec 22;246(4937):1585–7

Stabilization of Z DNA in vivo by localized supercoiling. Rahmouni AR, et al. **Science** 1989 Oct 20;246(4928):358–63

Chromosome localization and cDNA sequence of murine and human genes for ras p21 GTPase activating protein (GAP). Hsieh CL, et al. **Somat Cell Mol Genet** 1989 Nov; 15(6):579–90

Anatomical localization of calmodulin mRNA in the rat brain with cloned cDNA and synthetic oligonucleotide probes. Roberts-Lewis JM, et al. **Synapse** 1990;5(3):247–54

In situ hybridization of Drosophila polytene chromosomes with digoxigenin-dUTP-labeled probes. Engels WR, et al. **Trends Genet** 1989 Nov;5(11):366

Untwisting B-Z DNA. Holliday R. **Trends Genet** 1989 Nov; 5(11):355–6 (17 ref.)

Cloning and expression of the cDNA for bovine granulocyte-macrophage colony-stimulating factor. Leong SR, et al. **Vet Immunol Immunopathol** 1989 Jul; 21(3–4):261–78

Isolation, DNA sequence and evolution of a color visual pigment gene of the blind cave fish Astyanax fasciatus. Yokoyama R, et al. **Vision Res** 1990;30(6):807–16

[In situ hybridization of chorionic villi cells] Mazura I, et al. **Cas Lek Cesk** 1989 Jul 7;128(28):885–8 (Eng. Abstr.) **(Cze)**

[DNA-based diagnosis] Bánfalvi G, et al. **Orv Hetil** 1990 May 6;131(18):953–6, 959–64 (52 ref.) (Eng. Abstr.) **(Hun)**

[Recent progress of the molecular biology of human endocrinological disorders] Goto K, et al. **Nippon Rinsho** 1989 Oct;47(10):2372–81 (25 ref.) **(Jpn)**

[Rice mitochondrial genome] Hirai A. **Tanpakushitsu Kakusan Koso** 1989 Nov;34(14):1859–61 **(Jpn)**

[Evolutionary origin of the intracellular oligogenic system] Ishida MR. **Tanpakushitsu Kakusan Koso** 1990 Apr; 35(5):805–13 (21 ref.) **(Jpn)**

[Bacteriophage T4 and general recombination] Minagawa T. **Tanpakushitsu Kakusan Koso** 1990 Jan;35(1):16–33 (113 ref.) **(Jpn)**

[Crown gall tumor: molecular mechanism of T-DNA transfer] Okamoto S, et al. **Tanpakushitsu Kakusan Koso** 1989 Oct;34(13):1804–14 (81 ref.) **(Jpn)**

[Rice chloroplast genome] Shimada H. **Tanpakushitsu Kakusan Koso** 1989 Nov;34(14):1863–72 **(Jpn)**

[Rice genomic DNA] Takaiwa F, et al. **Tanpakushitsu Kakusan Koso** 1989 Nov;34(14):1850–8 **(Jpn)**

[Deoxyribonucleic acid sequence effects on molecular structure] Fujii S. **Yakugaku Zasshi** 1989 May; 109(5):281–99 (60 ref.) (Eng. Abstr.) **(Jpn)**

[X-ray structural studies of nucleic acid molecular structure and nucleic acid-protein interaction mechanism] Tomita K. **Yakugaku Zasshi** 1989 Jul;109(7):439–59 (53 ref.) (Eng. Abstr.) **(Jpn)**

[Gene technology in clinical medicine—DNA sequencing] Kristensen T. **Tidsskr Nor Laegeforen** 1989 Oct 10; 109(28):2887–9 (Eng. Abstr.) **(Nor)**

[Chemical reactions in double-stranded nucleic acids. IX. Directed introduction of substituted pyrophosphate bonds into DNA structure] Kuznetsova SA, et al. **Bioorg Khim** 1990 Feb;16(2):219–25 (Eng. Abstr.) **(Rus)**

[Liquid crystalline dispersion of superhelical circular DNA as a base for biosensors] Evdokimov IuM, et al. **Dokl Akad Nauk SSSR** 1989;307(5):1262–5 **(Rus)**

[The effect of long-range interactions between adsorbed ligands on the DNA helix-coil transition] Akhrem AA, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):649–56 (Eng. Abstr.) **(Rus)**

[Nucleic acids as a basis for creating biosensors] Evdokimov IuM, et al. **Mol Biol (Mosk)** 1989 Nov-Dec;23(6):1581–8 (Eng. Abstr.) **(Rus)**

[Parallel DNA double helices. II. Conformational analysis of regular helices having a second order axis of symmetry] Il'icheva IA, et al. **Mol Biol (Mosk)** 1989 Jul-Aug; 23(4):1145–62 (Eng. Abstr.) **(Rus)**

[Monte-Carlo simulation of hydration of nucleic acid fragments] Teplukhin AV, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):832–46 (Eng. Abstr.) **(Rus)**

[Calculations of stability of A and B forms of dA6.dT6 and dG6.dC6 duplexes by molecular mechanics method in an aqueous solution and approximation of the statistical model. Analysis of unusual stability of the dA6.dT6 B form]

Vorob'ev IuN. **Mol Biol (Mosk)** 1990 Mar-Apr; 24(2):467-77 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Liposomes as carriers of DNA. Nicolau C, et al. **Crit Rev Ther Drug Carrier Syst** 1989;6(3):239-71 (138 ref.)

Fusion-mediated microinjection of liposome-enclosed DNA into cultured cells with the aid of influenza virus glycoproteins. Lapidot M, et al. **Exp Cell Res** 1990 Aug; 189(2):241-6

ANALYSIS

Improvement of accuracy of scanning absorption measurement of nuclear DNA content in plants. Doležel J. **Acta Histochem (Jena)** 1989;86(2):123-7

Cytofluorometric determination of nuclear DNA in heart muscles of patients with muscular dystrophy. Kuwamura Y, et al. **Acta Pathol Jpn** 1989 Sep;39(9):566-72

Artefacts due to radiation-induced cell damage in pulse-labeling experiments using tritiated nucleic acid precursors. Salonen J, et al. **Adv Exp Med Biol** 1989; 253B:235-41

Characterization of poly(ADP-ribose) polymerase with human autoantibodies. Yamanaka H, et al. **Adv Exp Med Biol** 1989;253B:259-65

Genetic diversity in Plasmodium falciparum. Kemp DJ, et al. **Adv Parasitol** 1990;29:75-149 (321 ref.)

Flow cytometric DNA analysis of corneal epithelium. Burns ER, et al. **Am J Anat** 1990 Mar;187(3):254-60

DNA flow cytometry of myocardial cell nuclei in paraffin-embedded, human autopsy, cardiac tissue. Goodman LC, et al. **Am J Cardiovasc Pathol** 1989;3(1):55-9

In situ hybridization in hematopathology. Strickler JG, et al. **Am J Clin Pathol** 1990 Apr;93(4 Suppl 1):S44-8

Application of DNA fingerprints for cell-line individualization. Gilbert DA, et al. **Am J Hum Genet** 1990 Sep;47(3):499-514

Genetic screening with exfoliated cervicovaginal cells collected by a noninvasive lavage technique performed during routine gynecologic cancer screening. Burk RD, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):652-4

Deoxyribonucleic acid flow cytometric analysis of cervical adenocarcinoma: prognostic significance of deoxyribonucleic acid ploidy and S-phase fraction. Leminen A, et al. **Am J Obstet Gynecol** 1990 Mar; 162(3):848-53

Flow cytometric determination with bromodeoxyuridine/DNA assay of sensitivity of S-phase cells to cytosine arabinoside in childhood acute lymphoblastic leukemia. Katano N, et al. **Am J Pediatr Hematol Oncol** 1989 Winter;11(4):411-6

Detection of Plasmodium falciparum infection in human patients: a comparison of the DNA probe method to microscopic diagnosis. Barker RH Jr, et al. **Am J Trop Med Hyg** 1989 Sep;41(3):266-72

Bathophenanthroline-Ru(II) complexes as nonradioactive labels for dideoxy DNA sequencing. Bannwarth W. **Anal Biochem** 1989 Sep;181(2):216-9

Application of a subtraction hybridization technique involving photoactivatable biotin and organic extraction to solution hybridization analysis of genomic DNA. Barr FG, et al. **Anal Biochem** 1990 May 1;186(2):369-73

Probing hairpin structures of small DNAs by nondenaturing polyacrylamide gel electrophoresis. Baumann U, et al. **Anal Biochem** 1989 Nov 15;183(1):152-8

Immunodetection of DNA with biotinylated RNA probes: a study of reactivity of a monoclonal antibody to DNA-RNA hybrids. Coutlée F, et al. **Anal Biochem** 1989 Aug 15;181(1):96-105

On the theory of gel electrophoresis of DNA: extension and evaluation of the Lumpkin-DeJardin-Zimm model. Diwan AR, et al. **Anal Biochem** 1989 Nov 15;183(1):122-33

Detection of DNA targets with biotinylated and fluoresceinated RNA probes. Effects of the extent of derivitization on detection sensitivity. Folsom V, et al. **Anal Biochem** 1989 Nov 1;182(2):309-14

Electroblotting of double-stranded DNA for hybridization experiments: DNA transfer is complete within 10 minutes after pulsed-field gel electrophoresis. Ishihara H, et al. **Anal Biochem** 1990 Feb 1;184(2):207-12

Determination of guanine by high-performance liquid chromatography with electrochemical detection: application to DNA and RNA assays. Nakahara T, et al. **Anal Biochem** 1989 Jul;180(1):38-42

Nonradioactive nucleic acid detection by enhanced chemiluminescence using probes directly labeled with horseradish peroxidase. Pollard-Knight D, et al. **Anal Biochem** 1990 Feb 15;185(1):84-9

Nonradioactive DNA detection on Southern blots by enzymatically triggered chemiluminescence. Pollard-Knight D, et al. **Anal Biochem** 1990 Mar; 185(2):353-8

Determination of pyrimidine dimers in DNA by high-performance liquid chromatography/gas chromatography and electron capture detection. Ramsey RS, et al. **Anal Biochem** 1989 Nov 1;182(2):424-31

A gel electrophoretic assay for detecting the insertion defect in Ashkenazi Jewish carriers of Tay-Sachs disease. Shore S, et al. **Anal Biochem** 1990 Apr;186(1):179-81

High-speed separations of DNA sequencing reactions by capillary electrophoresis. Drossman H, et al. **Anal Chem** 1990 May 1;62(9):900-3

Effect of ultrasound on the separation of DNA fragments in agarose gel electrophoresis. Ma YF, et al. **Anal Chem** 1990 Jun 1;62(11):1194-6

DNA sequencing, automation, and the human genome. Trainor GL. **Anal Chem** 1990 Mar 1;62(5):418-26

New fluorescence reactions in DNA cytochemistry. 2. Microscopic and spectroscopic studies on fluorescent aluminum complexes. Del Castillo P, et al. **Anal Quant Cytol Histol** 1990 Feb;12(1):11-20

New fluorescence reactions in DNA cytochemistry. 1. Microscopic and spectroscopic studies on nonrigid fluorochromes. Stockert JC, et al. **Anal Quant Cytol Histol** 1990 Feb;12(1):1-10

Quantitative DNA patterns in human preneoplastic breast lesions. Teplitz RL, et al. **Anal Quant Cytol Histol** 1990 Apr;12(2):98-102

DNA ploidy in breast lesions. A comparative study using two commercial image analysis systems and flow cytometry. Wilbur DC, et al. **Anal Quant Cytol Histol** 1990 Feb;12(1):28-34

Time-resolved fluorimetric detection of terbium-labelled deoxyribonucleic acid separated by gel electrophoresis. Saavedra SS, et al. **Analyst** 1989 Jul;114(7):835-8

Effects of L-acetylcarnitine (LAC) on the post-injury recovery of mouse spermatogenesis monitored by flow cytometry. 1. Recovery after X-irradiation. Amendola R, et al. **Andrologia** 1989 Nov-Dec;21(6):568-75

Mapping human disease-associated genes. Ferguson-Smith MA. **Anim Genet** 1989;20(3):332-4

Selective removal of anti-double-stranded DNA antibodies by immunoadsorption with dextran sulphate in a patient with systemic lupus erythematosus. Kinoshita M, et al. **Ann Rheum Dis** 1989 Oct;48(10):856-60

DNA restriction fragment length polymorphism of HLA-DR2 haplotypes in normal individuals and in patients with rheumatoid arthritis. Singal DP, et al. **Ann Rheum Dis** 1990 Mar;49(3):143-6

Cloning and characterization of two alternatively spliced rat alpha-amidating enzyme cDNAs from rat medullary thyroid carcinoma. Bertelsen AH, et al. **Arch Biochem Biophys** 1990 May 15;279(1):87-96

Characterization and primary sequence of a human hepatic microsomal estriol UDPglucuronosyltransferase. Coffman BL, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):170-5

cDNA and deduced amino acid sequences of a dog hepatic cytochrome P450IIB responsible for the metabolism of 2,2',4,4',5,5'-hexachlorobiphenyl. Graves PE, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):106-15

Effects of tributyltin on survival, growth, morphometry, and RNA-DNA ratio of larval striped bass, Morone saxatilis. Pinkney AE, et al. **Arch Environ Contam Toxicol** 1990 Mar-Apr;19(2):235-40

A non-radioactive method to detect RNA or DNA using an oligonucleotide probe with bromodeoxyuridine free ends, a monoclonal antibody against bromodeoxyuridine and immunogold silver staining. Scippo ML, et al. **Arch Int Physiol Biochim** 1989 Jun;97(3):279-84

Linkage of DNA markers at Xq28 to adrenoleukodystrophy and adrenomyeloneuropathy present within the same family. Willems PJ, et al. **Arch Neurol** 1990 Jun;47(6):665-9

The importance of DNA flow cytometry in node-negative breast cancer. Winchester DJ, et al. **Arch Surg** 1990 Jul; 125(7):886-9

Cellularity of organs in mature rams of different breeds. Colebrook WF, et al. **Aust J Biol Sci** 1988;41(2):201-14

The potential of the polymerase chain reaction in veterinary research and diagnosis. Deacon NJ, et al. **Aust Vet J** 1989 Dec;66(12):442-4 (16 ref.)

Densitometric evaluation of DNA contents in expanded human skin. Matturri L, et al. **Basic Appl Histochem** 1989; 33(4):325-30

Biotinylation of double stranded DNA after transamination. Avignolo C, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):243-50

Time-resolved fluorescence of DAPI in solution and bound to polydeoxynucleotides. Barcellona ML, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):270-80

Multifactorial control of insulin receptor gene expression in human cell lines. Briata P, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1184-90

Complexes of nuclear matrix DNA with proteins tightly bound to DNA contain a specific small-size RNA of a novel type. Chernokhvostov VV, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):95-101

Preferential modification of guanine bases in DNA by dimethyldioxirane and its application to DNA sequencing. Davies RJ, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):87-94

Partial deletion of human alpha-galactosidase A gene in Fabry disease: direct repeat sequences as a possible cause of slipped mispairing. Fukuhara Y, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):296-300

Observation of arginyl-deoxyoligonucleotide interactions in Taq I endonuclease by detection of specific 1H NMR signals from 140kD [N eta 1, N eta 2, 15N Arg]Taq I/oligomer complexes. Glushka J, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):88-93

Alpha 1-antitrypsin Wbethesda: molecular basis of an unusual alpha 1-antitrypsin deficiency variant. Holmes MD, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1013-20

Isolation and characterization of a cDNA for rat liver cysteine dioxygenase. Hosokawa Y, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):473-8

cDNA cloning and characterization of ret activated in a human papillary thyroid carcinoma cell line. Ishizaka Y, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):402-8

Sequence diversity in the 5' untranslated region of rabbit muscle phosphofructokinase mRNA. Li J, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1056-60

The amino acid sequence of rat liver non-specific lipid transfer protein (sterol carrier protein 2) is present in a high molecular weight protein: evidence from cDNA analysis. Ossendorp BC, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):631-6

Detection of total DNA with single-stranded DNA binding protein conjugates. Sheldon EL 3d, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):474-80

cDNA cloning and sequencing for the import precursor of subunit B in H(+)-ATP synthase from rat mitochondria. Tsurumi C, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):136-42

A novel variant of transthyretin (Tyr114 to Cys) deduced from the nucleotide sequences of gene fragments from familial amyloidotic polyneuropathy in Japanese sibling cases. Ueno S, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):143-7

Transcription factor IIA of wheat and human interacts similarly with the adenovirus-2 major late promoter. Yu XB, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):498-505

Isolation and characterization of two novel rat ovarian lactogen receptor cDNA species. Zhang R, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):415-22

Carcinoembryonic antigen gene family members in submandibular salivary gland: demonstration of pregnancy-specific glycoproteins by cDNA cloning. Zoubir F, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):203-16

Preferential over-expression of the class alpha rat Ya2 glutathione S-transferase subunit in livers bearing aflatoxin-induced pre-neoplastic nodules. Comparison of the primary structures of Ya1 and Ya2 with cloned class alpha glutathione S-transferase cDNA sequences. Hayes JD, et al. **Biochem J** 1990 Jun 1;268(2):295-302

Aristololactam-beta-D-glucoside. A new DNA binding monofunctional intercalating alkaloid. Chakraborty S, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3683-7

Characterization of cDNAs of the human pregnancy-specific beta 1-glycoprotein family, a new subfamily of the immunoglobulin gene superfamily. Zheng QX, et al. **Biochemistry** 1990 Mar 20;29(11):2845-52

Molecular cloning and expression of a cDNA encoding the membrane-associated rat intestinal alkaline phosphatase. Lowe M, et al. **Biochim Biophys Acta** 1990 Feb 9; 1037(2):170-7

Complete sequence of the coding region of human elongation factor 2 (EF-2) by enzymatic amplification of cDNA from human ovarian granulosa cells. Rapp G, et al. **Biol Chem Hoppe Seyler** 1989 Oct;370(10):1071-5

Synthesis of transferrin and transferrin mRNA in bovine Sertoli cells in culture and in vivo: sequence of partial cDNA clone for bovine transferrin. Gilmont RR, et al. **Biol Reprod** 1990 Jul;43(1):139-50

Cloning and sequencing of cDNAs coding for the human intra-acrosomal antigen SP-10. Wright RM, et al. **Biol Reprod** 1990 Apr;42(4):693-701

Preparation and mass spectral characterization of pentafluorobenzyl derivatives of alkyl and hydroxyalkyl-nucleobase DNA adducts. Saha M, et al. **Biomed Environ Mass Spectrom** 1989 Nov;18(11):958-72

The interaction with DNA of unfused aromatic systems containing terminal piperazino substituents. Intercalation and groove-binding. Wilson WD, et al. **Biophys Chem** 1990 Apr;35(2-3):227-43

DNA backbone flexibility and the Z access for phosphodiester linkage: a quantum molecular approach. Broch H, et al. **Biopolymers** 1989 Oct;28(10):1827-31

DNA gel electrophoresis: effect of field intensity and agarose concentration on band inversion. Slater GW, et al. **Biopolymers** 1989 Oct;28(10):1793-9

The global average DNA base composition of coding regions may be determined by the electron-ion interaction potential. Lalović D, et al. **Biosystems** 1990;23(4):311-6

Rapid visualization of genomic DNA and total RNA in agarose gels. Angermüller SA, et al. **Biotechniques** 1990 Jan;8(1):36, 38

Rapid and sensitive detection of DNA in Southern blots with chemiluminescence. Bronstein I, et al. **Biotechniques** 1990 Mar;8(3):310-4

A simple screening method for transgenic mice using the polymerase chain reaction. Chen SZ, et al. **Biotechniques** 1990 Jan;8(1):32-3

Direct electronic radioisotope detection yields improved gene dosage analysis. Chettouh Z, et al. **Biotechniques** 1990 Aug;9(2):162-4

An easy procedure to detect DNA bands in RNA contaminated samples. Gibson CW, et al. **Biotechniques** 1988 Feb;6(2):122

Assaying the quality of cDNA libraries. Hagen FS, et al. **Biotechniques** 1988 Apr;6(4):340-5

Analysis of trimethylpsoralen photoreactivity to Z-DNA provides a general in vivo assay for Z-DNA: analysis of

the hypersensitivity of (GT)n B–Z junctions. Kochel TJ, et al. **Biotechniques** 1988 Jun;6(6):532–43

A simple semi-dry capillary transfer of DNA. Nakano T, et al. **Biotechniques** 1990 Feb;8(2):173–4

A rapid droplet method for Sanger dideoxy sequencing. Ner SS, et al. **Biotechniques** 1988 May;6(5):408, 410, 412

Detection of picogram amounts of nucleic acid by dot blot hybridization. Pepin RA, et al. **Biotechniques** 1990 Jun; 8(6):628–32

A strategy for single site PCR amplification of dsDNA: priming digested cloned or genomic DNA from an anchor-modified restriction site and a short internal sequence [published erratum appears in Biotechniques 1990 Mar;8(3):265] Roux KH, et al. **Biotechniques** 1990 Jan; 8(1):48–57

A rapid method for characterizing transgenic mice. Skalnik DG, et al. **Biotechniques** 1990 Jan;8(1):34

Decreasing the concentration of nonlimiting deoxynucleotides. Toneguzzo F, et al. **Biotechniques** 1988 Sep;6(8):732

A system for on-line detection and resolution of radiolabeled DNA molecules and its application to automated DNA sequence analysis. Toneguzzo F, et al. **Biotechniques** 1989 Sep;7(8):866–77

A simplified biochemistry for DNA sequencing. Vizard D, et al. **Biotechniques** 1990 Apr;8(4):430–7

A simple and sensitive method for quantifying human genomic DNA in forensic specimen extracts. Waye JS, et al. **Biotechniques** 1989 Sep;7(8):852–5

The use of a PVDF membrane in the rapid immobilization of genomic DNA for dot-blot hybridization analysis. Williams DL. **Biotechniques** 1990 Jan;8(1):14–5 (10 ref.)

Automation of dideoxynucleotide DNA sequencing reactions using a robotic workstation. Wilson RK, et al. **Biotechniques** 1988 Sep;6(8):776–7, 781–7

Analysis and purification of synthetic DNA fragments with NuSieve agarose mini-gels. Zupancic TJ, et al. **Biotechniques** 1988 Apr;6(4):296, 298

An independent diagnosis [clinical conference] Cox TM. **BMJ** 1990 Jun 9;300(6738):1512–4

Blotting techniques for the study of DNA, RNA, and proteins. Hayes PC, et al. **BMJ** 1989 Oct 14; 299(6705):965–8 (34 ref.)

Bone marrow transplantation monitoring by DNA analysis. Gasparini P, et al. **Bone Marrow Transplant** 1989 Dec;4 Suppl 4:157–9

Purification of the growth-associated protein GAP-43 by reversed phase chromatography: amino acid sequence analysis and cDNA identification. Changelian PS, et al. **Brain Res** 1990 Mar 5;510(2):259–68

Chicken growth-associated protein (GAP)-43: primary structure and regulated expression of mRNA during embryogenesis. Baizer L, et al. **Brain Res Mol Brain Res** 1990 Jan;7(1):61–8

DNA analysis of histocompatibility antigens: fragments from the recently identified DR loci. Goldberg AC, et al. **Braz J Med Biol Res** 1989;22(7):849–57

DNA analysis of histocompatibility antigens of a sample of the São Paulo population. Goldberg AC, et al. **Braz J Med Biol Res** 1989;22(7):869–75

Interaction of 7,10-dimethylbenz[c]acridine with deoxyribonucleic acid. Kamata K, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):534–40

Molecular forensics: applications, implications and limitations. Hegele RA. **Can Med Assoc J** 1989 Oct 1; 141(7):668–72 (16 ref.)

DNA content of rectal scrapings from individuals at low and high risk for the development of colorectal cancer. A feasibility study. Staiano-Coico L, et al. **Cancer** 1989 Dec 15;64(12):2579–84

Detection of 5-methylcytosine removal from DNA of Friend erythroleukemia cells following exposure to several differentiating agents. Kuykendall JR, et al. **Cancer Lett** 1989 Sep 15;47(1–2):149–52

Sequential evaluation of gastric intraluminal prostaglandin E2 release, acid secretion and DNA-flow cytometry in N-methyl-N-nitro-N-nitrosoguanidine gastric carcinogenesis in the rat. Silecchia G, et al. **Cancer Lett** 1990 Jan;49(1):73–80

Isolation and characterization of complementary DNA clones corresponding to genes induced in mouse epidermis in vivo by tumor promoters. Bohm S, et al. **Cancer Res** 1990 Mar 1;50(5):1626–33

Re: T. Neil Dear et al., Transcriptional down-regulation of a rat gene, WDNM2, in metastatic DMBA-8 cells. Cancer Res., 49: 5323–5328, 1989 [letter] Dear TN. **Cancer Res** 1990 Mar 1;50(5):1667

Expression of mitochondrial cytochrome c oxidase in human colonic cell differentiation, transformation, and risk for colonic cancer. Heerdt BG, et al. **Cancer Res** 1990 Mar 1;50(5):1596–600

Determination of the DNA content of a six-gene amplicon in the multidrug-resistant Chinese hamster cell line CHRB3 by flow karyotyping. Jongsma AP, et al. **Cancer Res** 1990 May 1;50(9):2803–7

DNA in situ sensitivity to denaturation as a marker of human breast tumors. Kunicka JE, et al. **Cancer Res** 1989 Nov 15;49(22):6347–51

Cloning and sequencing of a complementary DNA encoding a Mr 70,000 human breast epithelial mucin-associated antigen. Larocca D, et al. **Cancer Res** 1990 Sep 15; 50(18):5925–30

Association between diet and age-related DNA modifications (I-compounds) in rat liver and kidney. Li DH, et al. **Cancer Res** 1990 Jul 1;50(13):3991–6

Expression of human alpha-actinin in human hepatocellular carcinoma. Nishiyama M, et al. **Cancer Res** 1990 Oct 1; 50(19):6291–4

A novel, sensitive assay for O6-methyl- and O6-ethylguanine in DNA, based on repair by the enzyme O6-alkylguanine-DNA-alkyltransferase in competition with an oligonucleotide containing O6-methylguanine. Souliotis VL, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6997–7001

Detection of adducts arising from human exposure to N-nitroso compounds. Shuker DE. **Cancer Surv** 1989; 8(2):475–87 (51 ref.)

Human cytochrome P450IIA3: cDNA sequence, role of the enzyme in the metabolic activation of promutagens, comparison to nitrosamine activation by human cytochrome P450IIE1. Crespi CL, et al. **Carcinogenesis** 1990 Aug;11(8):1293–300

Cell and tissue specific localization of O6-methylguanine in the DNA of rats given N-nitrosodimethylamine: effects of protein deficient and normal diets. Fan CY, et al. **Carcinogenesis** 1989 Oct;10(10):1967–70

Influence of the degree of DNA modification on the immunochemical determination of cisplatin-DNA adduct levels. Fichtinger-Schepman AM, et al. **Carcinogenesis** 1989 Dec;10(12):2367–9

Polycyclic aromatic hydrocarbon-DNA adducts in spontaneously aborted fetal tissue. Hatch MC, et al. **Carcinogenesis** 1990 Sep;11(9):1673–5

Synchronous fluorescence spectroscopic, immunoaffinity chromatographic and 32P-postlabeling analysis of human placental DNA known to contain benzo[a]pyrene diol epoxide adducts. Manchester DK, et al. **Carcinogenesis** 1990 Apr;11(4):553–9

Monoclonal antibody-based immunoassay for the determination of cellular enzymatic activity for repair of specific carcinogen-DNA adducts (O6-alkylguanine). Nehls P, et al. **Carcinogenesis** 1990 Jan;11(1):81–7

Immunohistochemical demonstration of carcinogen-DNA adducts in target and non-target tissues of rats given a prostate carcinogen, 3,2'-dimethyl-4-aminobiphenyl. Shirai T, et al. **Carcinogenesis** 1990 Apr;11(4):653–7

Polycyclic aromatic hydrocarbon-DNA adducts in lung tissue from lung cancer patients. van Schooten FJ, et al. **Carcinogenesis** 1990 Sep;11(9):1677–81

Alkyl and aryl carcinogen adducts detected in human peripheral lung. Wilson VL, et al. **Carcinogenesis** 1989 Nov; 10(11):2149–53

A method to quantitate cell numbers of muscle cells and non-muscle cells in homogenised heart cell cultures. van der Laarse A, et al. **Cardiovasc Res** 1989 Nov;23(11):928–33

The basal bodies of Chlamydomonas reinhardtii do not contain immunologically detectable DNA. Johnson KA, et al. **Cell** 1990 Aug 24;62(4):615–9

Chromatin characteristics of carcinogen-treated avian erythrocyte nuclei and effects of reactivation. Guy SP, et al. **Cell Biol Int Rep** 1989 Sep;13(9):759–71

DNA double staining for a fluorescence energy transfer study of chromatin in liver cells. Bottiroli G, et al. **Cell Biophys** 1989 Dec;15(3):249–63

Estimation of residual DNA in Feulgen reaction. A new correction of DNA determination per nucleus. Yamada M, et al. **Cell Mol Biol** 1990;36(2):155–61

Cultured human keratinocytes: discrimination of different cell cycle compartments based upon measurement of nuclear RNA or total cellular RNA content. Staiano-Coico L, et al. **Cell Tissue Kinet** 1989 May;22(3):235–43

Alternating current voltammetric determination of DNA damage. Krznarić D, et al. **Chem Biol Interact** 1990; 76(1):111–28

Characterization of a tandemly repeated DNA from the fleshfly Sarcophaga bullata. Hershfield B, et al. **Chromosoma** 1990 Apr;99(2):125–30

A 41–42 bp tandemly repeated sequence isolated from nuclear envelopes of chicken erythrocytes is located predominantly on microchromosomes. Matzke MA, et al. **Chromosoma** 1990 Apr;99(2):131–7

Occurrence of the (GATA)n sequences in vertebrate and invertebrate genomes. Miklos GL, et al. **Chromosoma** 1989 Sep;98(3):194–200

Presence of female-specific bent-repetitive DNA sequences in the genomes of turkey and pheasant and their interactions with W-protein of chicken. Saitoh H, et al. **Chromosoma** 1989 Oct;98(4):250–8

Regional differences in immunostainability of isolated metaphase chromosomes of Indian muntjac with anti-Z-DNA antibody. Ueda T, et al. **Chromosoma** 1990 Jul;99(3):161–8

The beta heterochromatic sequences flanking the I elements are themselves defective transposable elements. Vaury C, et al. **Chromosoma** 1989 Sep;98(3):215–24

Rapid diagnosis of the phenylketonuria haplotype 2 mutation by DNA amplification and MnlI digestion. Eiken HG, et al. **Clin Chem** 1990 May;36(5):809–10

DNA "fingerprinting" with nonradioactive gene probes. Tilzer LL, et al. **Clin Chem** 1989 Oct;35(10):2147

Cloning and characterization of a cDNA encoding alkaline phosphatase in mouse embryonal carcinoma cells. Hahnel AC, et al. **Clin Chim Acta** 1990 Jan 15;186(2):171–4

Structure of the ornithine transcarbamylase (OTC) gene and DNA diagnosis of OTC deficiency. Matsuda I, et al. **Clin Chim Acta** 1989 Dec 15;185(3):283–9

Genetic analysis of familial amyloidotic polyneuropathy, an autosomal dominant disease. Sakaki Y, et al. **Clin Chim Acta** 1989 Dec 15;185(3):291–7

Flow cytometric analysis of the megakaryocyte DNA distribution in whole and partially purified human and rabbit bone marrow. Lawry J, et al. **Clin Lab Haematol** 1989;11(4):361–8

Different response of cellular DNA content to cardiac hypertrophy in human and rat heart myocytes. Vliegen HW, et al. **Comp Biochem Physiol [A]** 1990;95(1):109–14

The ordering of the nucleotides in DNA: computational problems in molecular biology. Nussinov R. **Comput Biol Med** 1989;19(4):269–81 (63 ref.)

Flow cytometric evaluation of DNA stainability with propidium iodide after histone H1 extraction. Giangarè MC, et al. **Cytometry** 1989 Nov;10(6):726–30

Effect of sonication on paraffin-embedded tissue preparation for DNA flow cytometry. Gonchoroff NJ, et al. **Cytometry** 1990;11(5):642–6

Comparison of the Papanicolaou and Feulgen staining methods for DNA quantification by image analysis. Gurley AM, et al. **Cytometry** 1990;11(4):468–74

Detection of S cells and evaluation of DNA denaturation protocols by image cytometry of fluorescent BrdUrd labelling. Humbert C, et al. **Cytometry** 1990;11(4):481–9

Different opinions on classification of DNA histograms produced from paraffin-embedded tissue. Joensuu H, et al. **Cytometry** 1989 Nov;10(6):711–7

Evidence for false aneuploid peaks in flow cytometric analysis of paraffin-embedded tissue. Joensuu H, et al. **Cytometry** 1990;11(3):431–7

Analysis of c-erbB-2 protein expression in conjunction with DNA content using multiparameter flow cytometry. Kelsten ML, et al. **Cytometry** 1990;11(4):522–32

Cell kinetics in mouse epidermis studied by bivariate DNA/bromodeoxyuridine and DNA/keratin flow cytometry. Kirkhus B, et al. **Cytometry** 1990;11(2):253–60

Simultaneous flow cytometric detection of cellular c-myc protein, incorporated bromodeoxyuridine, and DNA. Rosette CD, et al. **Cytometry** 1990;11(4):547–51

Cytofluorometric determination of protein-bound thiols and DNA in cell nuclei. Schabronath J, et al. **Cytometry** 1990; 11(3):333–40

Variations in Feulgen stainability of epithelial parenchymal cells extracted from paraffin-embedded salivary gland specimens. Schimmelpenning H, et al. **Cytometry** 1990; 11(4):475–80

Reference standards for flow cytometry and application in comparative studies of nuclear DNA content. Tiersch TR, et al. **Cytometry** 1989 Nov;10(6):706–10

Quantification of the DNA content of structurally abnormal X chromosomes and X chromosome aneuploidy using high resolution bivariate flow karyotyping. Trask B, et al. **Cytometry** 1990;11(1):184–95

Measurement variability in DNA flow cytometry of replicate samples. Wheeless LL, et al. **Cytometry** 1989 Nov; 10(6):731–8

Evaluation of immunocytochemical detection methods of incorporated bromodeoxyuridine in hybridomas. Williams LS, et al. **Cytometry** 1990;11(4):490–7

Dual-parameter flow cytometric analysis of an early lymphocyte activation antigen (CK226) and DNA content. Zocchi MR, et al. **Cytometry** 1989 Nov;10(6):762–71

Repetitive DNA sequences linked to the sea urchin spec genes contain transcriptional enhancer-like elements. Gan L, et al. **Dev Biol** 1990 May;139(1):186–96

Normal insulin-receptor cDNA sequence in Pima Indians with NIDDM. Moller DE, et al. **Diabetes** 1989 Nov; 38(11):1496–500

Rapid colorimetric detection of in vitro amplified DNA sequences. Lundeberg J, et al. **DNA Cell Biol** 1990 May; 9(4):287–92

Maximum entropy image reconstruction of DNA sequencing gel autoradiographs. Elder JK. **Electrophoresis** 1990 May; 11(5):440–4

Electrophoretic separation of nucleic acids: evaluation by video and photographic densitometry. Freeman SE, et al. **Electrophoresis** 1990 May;11(5):425–31

A compositional map of human chromosome 21. Gardiner K, et al. **EMBO J** 1990 Jun;9(6):1853–8

Molecular epidemiology of salmonella. Tacket CO. **Epidemiol Rev** 1989;11:99–108 (68 ref.)

Repeat peptide motifs which contain beta-turns and modulate DNA condensation in chromatin. Erard M, et al. **Eur J Biochem** 1990 Jul 20;191(1):19–26

Molecular cloning and sequence analysis of the cDNA for rat mitochondrial enoyl-CoA hydratase. Structural and evolutionary relationships linked to the bifunctional enzyme of the peroxisomal beta-oxidation system. Minami-Ishii N, et al. **Eur J Biochem** 1989 Oct 20; 185(1):73–8

Human and murine urokinase cDNAs linked to the murine alpha A-crystallin promoter exhibit lens and non-lens expression in transgenic mice. Miskin R, et al. **Eur J Biochem** 1990 May 31;190(1):31–8

Differential biogenesis of photosystem-II in mesophyll and bundle-sheath cells of 'malic' enzyme NADP(+)-type C4 plants. A comparative protein and RNA analysis. Oswald A, et al. **Eur J Biochem** 1990 May 31;190(1):185–94

Arginase of Agrobacterium Ti plasmid C58. DNA sequence,

properties, and comparison with eucaryotic enzymes. Schrell A, et al. **Eur J Biochem** 1989 Oct 1;184(3):635–41

Cloning and sequencing of mammalian glutathione reductase cDNA. Tutic M, et al. **Eur J Biochem** 1990 Mar 30; 188(3):523–8

Cytological and DNA characteristics of hyperplasia/inflammation and cancer of the prostate. Stenkvist B, et al. **Eur J Cancer** 1990 Mar;26(3):261–7

DNA fragmentation and cell death mediated by T cell antigen receptor/CD3 complex on a leukemia T cell line. Takahashi S, et al. **Eur J Immunol** 1989 Oct;19(10):1911–9

DNA testing for Huntington disease results in a modification of risk and not diagnosis of disease [letter; comment] Bloch M, et al. **Eur J Pediatr** 1990 Apr;149(7):513 Comment on: Eur J Pediatr 1989 Feb;148(5):447–9.

The origin of DNA associated with mucus glycoproteins in cystic fibrosis sputum. Lethem MI, et al. **Eur Respir J** 1990 Jan;3(1):19–23

The composition and metabolism of cells cultured in a modified filter–well apparatus. Dickson JA, et al. **Exp Cell Res** 1966 Mar;41(3):502–8

DNA breaks in quiescent lymphocytes [letter; comment] Johnstone AP, et al. **Exp Cell Res** 1989 Oct;184(2):558–9 Comment on: Exp Cell Res 1989 Feb;180(2):569–73.

DNA content of individual chromosomes of Protemnodon bicolor. Radley JM. **Exp Cell Res** 1966 Jan;41(1):217–20

The dynamic distribution and quantification of DNA cruciforms in eukaryotic nuclei. Ward GK, et al. **Exp Cell Res** 1990 Jun;188(2):235–46

DNA fingerprinting in a random sample of Japanese population with the minisatellite probe MZ 1.3. Rose M, et al. **Exp Clin Immmunogenet** 1990;7(2):136–40

Analysis of the DNA of patients with retinitis pigmentosa with a cellular retinaldehyde binding protein cDNA. Cotran PR, et al. **Exp Eye Res** 1990 Jul;51(1):15–9

Human megakaryocytes. VII. Analysis of megakaryocytes for nuclear DNA content distribution in whole marrow cell suspensions by flow cytometry. Rabellino EM, et al. **Exp Hematol** 1990 Mar;18(3):167–73

Babesia bovis: evidence for selection of subpopulations during attenuation. Carson CA, et al. **Exp Parasitol** 1990 May; 70(4):404–10

Plasmodium falciparum: analysis of chromosomes separated by contour–clamped homogenous electric fields. Gu H, et al. **Exp Parasitol** 1990 Aug;71(2):189–98

DNA analysis and recombination in X–linked retinitis pigmentosa. Redmond RM, et al. **Eye** 1990;4 (Pt 1):204–9

Nucleotide sequence of four genes encoding ribosomal proteins from the S10 and spectinomycin' operon equivalent region in the archaebacterium Halobacterium marismortui. Arndt E. **FEBS Lett** 1990 Jul 16;267(2):193–8

The cDNA and deduced amino acid sequence of the gamma subunit of the L–type calcium channel from rabbit skeletal muscle. Bosse E, et al. **FEBS Lett** 1990 Jul 2;267(1):153–6

Molecular cloning of two distinct vasotocin precursor cDNAs from chum salmon (Oncorhynchus keta) suggests an ancient gene duplication. Heierhorst J, et al. **FEBS Lett** 1990 Jan 29;260(2):301–4

An oligonucleotide hybridization approach to DNA sequencing. Khrapko KR, et al. **FEBS Lett** 1989 Oct 9; 256(1–2):118–22

Cloning and DNA sequence analysis of the glucose oxidase gene from Aspergillus niger NRRL–3. Kriechbaum M, et al. **FEBS Lett** 1989 Sep 11;255(1):63–6

PAPS–reductase of Escherichia coli. Correlating the N–terminal amino acid sequence with the DNA of gene cys H. Krone FA, et al. **FEBS Lett** 1990 Jan 15;260(1):6–9

Brain–specific expression of transthyretin mRNA as revealed by cDNA cloning from brain. Motojima K, et al. **FEBS Lett** 1989 Nov 20;258(1):103–5

Molecular cloning and characterization of the complementary DNA coding for the B–chain of murine Clq. Petry F, et al. **FEBS Lett** 1989 Nov 20;258(1):89–93

Interaction of the LexA repressor and the uvrC regulatory region. Stark T, et al. **FEBS Lett** 1989 Nov 20;258(1):39–41

Biochemical properties of the YPT–related rab1B protein. Comparison with rab1A. Touchot N, et al. **FEBS Lett** 1989 Oct 9;256(1–2):79–84

Molecular cloning of cDNA for vitamin D3 25–hydroxylase from rat liver mitochondria. Usui E, et al. **FEBS Lett** 1990 Mar 12;262(1):135–8

Apis mellifera cytoplasmic elongation factor 1 alpha (EF–1 alpha) is closely related to Drosophila melanogaster EF–1 alpha. Walldorf U, et al. **FEBS Lett** 1990 Jul 16; 267(2):245–9

Optimum testicular aspiration technique for deoxyribonucleic acid flow cytometric analysis of spermatogenesis in primates (Papio anubis). Hellstrom WJ, et al. **Fertil Steril** 1990 Sep;54(3):517–21

Deoxyribonucleic acid analysis of the zinc finger Y gene in 45,X/46,XY subjects. Plouffe L Jr, et al. **Fertil Steril** 1990 Aug;54(2):265–9

M13 Bioprints: non–isotopic detection of individual–specific human DNA fingerprints with biotinylated M13 bacteriophage. Medeiros AC, et al. **Forensic Sci Int** 1989 Dec;43(3):275–80

An evaluation of the polymerase chain reaction method for forensic applications. Westwood SA, et al. **Forensic Sci Int** 1990 Apr;45(3):201–15

Haptoglobin typing of human bloodstains using a specific DNA probe. Yokoi T, et al. **Forensic Sci Int** 1990 Mar; 45(1–2):39–46

Cytotoxic effects of cyclophosphamide in the mouse seminiferous epithelium: DNA flow cytometric and morphometric analysis. Toppari J, et al. **Fundam Appl Toxicol** 1990 Jul;15(1):44–52

Yeast cyclophilin: isolation and characterization of the protein, cDNA and gene. Haendler B, et al. **Gene** 1989 Nov 15;83(1):39–46

Nucleotide sequence and transcripts of the pea chloroplast gene encoding CFo subunit III of ATP synthase. Huttly AK, et al. **Gene** 1990 Jun 15;90(2):227–33

Hypersensitive mung bean nuclease cleavage sites in Plasmodium knowlesi DNA. Szafrański P, et al. **Gene** 1990 Apr 16;88(2):141–7

A rapid screen for the detection of specific DNA sequences in plants. Irvine JM, et al. **Genet Anal Tech Appl** 1990 Apr; 7(2):25–31

Complexity charts can be used to map functional domains in DNA. Konopka AK, et al. **Genet Anal Tech Appl** 1990 Apr;7(2):35–8

Affinity purification of specific DNA fragments using a lac repressor fusion protein. Lundeberg J, et al. **Genet Anal Tech Appl** 1990 May;7(3):47–52

Potential DNA methods for measuring the human heritable mutation rate. Mendelsohn ML. **Genome** 1989;31(2):860–3 (22 ref.)

On the use of DNA fingerprints for linkage studies in cattle. Georges M, et al. **Genomics** 1990 Mar;6(3):461–74

A physical map of the human Y–chromosome short arm. Müller U, et al. **Genomics** 1990 Aug;7(4):517–23

Comparative DNA analyses in longstanding ulcerative colitis with aneuploidy. Löfberg R, et al. **Gut** 1989 Dec; 30(12):1731–6

Placental site trophoblastic tumor: immunohistochemical and nuclear DNA study. Kashimura M, et al. **Gynecol Oncol** 1990 Aug;38(2):262–7

DNA content in ulcerative colitis. Rutegård J, et al. **Hepatogastroenterology** 1989 Aug;36(4):205–8 (45 ref.)

In situ hybridization technique using an immunogold silver staining system. Jackson P, et al. **Histochem J** 1989 Jul; 21(7):425–8

Immunocytochemical detection of sulphonylated DNA in tissue sections. An alternative to Feulgen staining of DNA. Fritz P, et al. **Histochemistry** 1989;93(2):175–81

DNA content and structure of (double) minutes of a methotrexate–resistant cell line. Jongsma AP, et al. **Histochemistry** 1989;93(1):87–92

Detection of DNA sequences in Plasmodium berghei by means of in situ hybridization. Obst M, et al. **Histochemistry** 1990;94(1):101–7

DNA–induced distamycin A fluorescence. Stockert JC, et al. **Histochemistry** 1990;94(1):45–7

Improved bromodeoxyuridine/DNA analysis by anti–BudR monoclonal antibody versus right angle light scatter. Vitale M, et al. **Histochemistry** 1989;93(1):9–11

Decrease of DNA per cell during development of the lens in chickens. Yamamoto A, et al. **Histochemistry** 1990; 94(3):293–6

Flow–cytometric DNA analysis of hematopoietic and lymphoid proliferations: a comparison of fresh, formalin–fixed and B5–fixed tissues. Pelstring RJ, et al. **Hum Pathol** 1990 May;21(5):551–8

Resistance of human follicular oocytes to parthenogenetic activation: DNA distribution and content in oocytes maintained in vitro. Abramczuk JW, et al. **Hum Reprod** 1990 Jul;5(5):578–81

Analysis of three distinct Ly6–A–related cDNA sequences isolated from rat kidney. Friedman S, et al. **Immunogenetics** 1990;31(2):104–11

B–G cDNA clones have multiple small repeats and hybridize to both chicken MHC regions. Kaufman J, et al. **Immunogenetics** 1989;30(6):440–51

DNA sequences of mouse H–2 and Qa genes. Kuhner MK, et al. **Immunogenetics** 1989;30(6):458–64

Hypervariability of intronic simple (gt)n(ga)m repeats in HLA–DRB genes. Riess O, et al. **Immunogenetics** 1990; 32(2):110–6

Highly conserved T–cell receptor junctional regions. Evidence for selection at the protein and the DNA level. Sorger SB, et al. **Immunogenetics** 1990;31(2):118–22

Functional aspect of a phosphopeptide derived from calf thymus nuclei and DNA. Welsh RS, et al. **Indian J Exp Biol** 1990 Apr;28(4):301–7

Effect of ginger & garlic on DNA content of gastric aspirate. Desai HG, et al. **Indian J Med Res** 1990 Apr;92:139–41

Restriction endonuclease analysis of DNA in sickle cell lesions among tribals of Bihar, Madhya Pradesh, Gujarat & Rajasthan. Jain RC. **Indian J Med Res** 1989 Oct; 90:346–50

Molecular analysis of nosocomial epidemics. John JF Jr. **Infect Dis Clin North Am** 1989 Dec;3(4):683–700 (78 ref.)

DNA adducts in different tissues of smokers and non–smokers. Cuzick J, et al. **Int J Cancer** 1990 Apr 15; 45(4):673–8

DNA content of juvenile granulosa tumors determined by flow cytometry. Swanson SA, et al. **Int J Gynecol Pathol** 1990;9(2):101–9

DNA fingerprinting of the intestinal parasite Giardia duodenalis with the M13 phage genome. Upcroft P, et al. **Int J Parasitol** 1990 May;20(3):319–23

Calibration of pulsed field gel electrophoresis for measurement of DNA double–strand breaks. Ager DD, et al. **Int J Radiat Biol** 1990 Aug;58(2):249–59

In CHEF electrophoresis a linear induction of dsb corresponds to a nonlinear fraction of extracted DNA with dose. Blöcher D. **Int J Radiat Biol** 1990 Jan;57(1):7–12

Lysis solution composition and non–linear dose–response to ionizing radiation in the non–denaturing DNA filter elution technique. Radford IR. **Int J Radiat Biol** 1990 Mar; 57(3):479–83

The DNA content of some mammalian cells measured by flow cytometry and its influence on radiation sensitivity. Sontag W, et al. **Int J Radiat Biol** 1990 Jun;57(6):1183–93

Cytophotometric investigations on atypical epithelial cells of the human seminal vesicle. Károlyi P, et al. **Int Urol Nephrol** 1989;21(4):399–402

Canine DNA fingerprinting: can it identify breeds? [news] Templeton JW. **J Am Vet Med Assoc** 1990 May 1; 196(9):1357, 1359, 1365

Incomplete normalization of dog gracilis muscle grafts with neurovascular repair despite long–term recovery. Martin TP, et al. **J Appl Physiol** 1990 Feb;68(2):687–92

Modulable Southern and Northern blot hybridization apparatus for routine screening of gene amplification and expression. Bignon C, et al. **J Biochem Biophys Methods** 1990 Apr–May;20(4):293–302

The formation of 2–aminofluorene–DNA adducts in vivo: evidence for peroxidase–mediated activation. Krauss RS, et al. **J Biochem Toxicol** 1989 Summer;4(2):111–7

Comparison of the formation of benzo[a]pyrene diolepoxide–DNA adducts in vitro by rat and human microsomes: evidence for the involvement of P–450IA1 and P–450IA2. Vähäkangas K, et al. **J Biochem Toxicol** 1989 Summer;4(2):79–86

A sensitive method for the detection of residual cell DNA in a recombinant hepatitis B vaccine prepared from Chinese hamster ovary cells. Yoneyama T, et al. **J Biol Stand** 1989 Oct;17(4):371–5

Electrophoresis of DNA in oriented agarose gels. Holmes DL, et al. **J Biomol Struct Dyn** 1989 Oct;7(2):311–27

The peculiar characteristics of the amino acid sequence of angiotensin I–converting enzyme, as determined by cDNA cloning of the human endothelial enzyme. Alhenc–Gélas F, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 4:S6–9

The cDNA–deduced amino acid sequence for trichohyalin, a differentiation marker in the hair follicle, contains a 23 amino acid repeat. Fietz MJ, et al. **J Cell Biol** 1990 Feb; 110(2):427–36

Pulsed field gel electrophoresis and investigations into mammalian genome organization. Gardiner K. **J Cell Sci** 1990 May;96 (Pt 1):5–8 (25 ref.)

Three–dimensional localisation of DNA in the nucleolus of Spirogyra by correlated optical tomography and serial ultra–thin sectioning. Jordan EG, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):343–52

Measurement of deoxyguanosine/thymidine ratios in complex mixtures by high–performance liquid chromatography for determination of the mole percentage guanine + cytosine of DNA. Mesbah M, et al. **J Chromatogr** 1989 Oct 6; 479(2):297–306

Purification of the upstream element factor of the adenovirus–2 major late promoter from HeLa and yeast by sequence–specific DNA affinity chromatography. Moncollin V, et al. **J Chromatogr** 1990 Jun 27;510:243–50

Two unrelated patients with familial hyperproinsulinemia due to a mutation substituting histidine for arginine at position 65 in the proinsulin molecule: identification of the mutation by direct sequencing of genomic deoxyribonucleic acid amplified by polymerase chain reaction. Barbetti F, et al. **J Clin Endocrinol Metab** 1990 Jul;71(1):164–9

21–hydroxylase deficiency: disease–causing mutations categorized by densitometry of 21–hydroxylase–specific deoxyribonucleic acid fragments. Haglund–Stengler B, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):43–8

Low prevalence of insulin–like growth factor–I gene mutations in human growth disorders. Lajara R, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):687–92

Identification of the multiple beta–thalassemia mutations by denaturing gradient gel electrophoresis. Cai SP, et al. **J Clin Invest** 1990 Feb;85(2):550–3

Tissue extraction of DNA and RNA and analysis by the polymerase chain reaction. Jackson DP, et al. **J Clin Pathol** 1990 Jun;43(6):499–504

DNA aneuploidy in sarcoid granuloma [letter] Ornvold K, et al. **J Clin Pathol** 1989 Nov;42(11):1225–6

Diagnosis of toxoplasmosis using DNA probes [letter] Savva D, et al. **J Clin Pathol** 1990 Mar;43(3):260–1

Milk protein typing of bovine mammary gland tissue used to generate a complementary deoxyribonucleic acid library. Medrano JF, et al. **J Dairy Sci** 1989 Dec;72(12):3190–6

An investigation into the use of restriction endonuclease analysis for the study of transmission of mutans streptococci. Kulkarni GV, et al. **J Dent Res** 1989 Jul; 68(7):1155–61

Chromosome markers and karyology of selachians. Stingo V, et al. **J Exp Zool Suppl** 1989;2:175–85 (36 ref.)

Identification of decomposed human remains by deoxyribonucleic acid (DNA) profiling. Haglund WD, et al. **J Forensic Sci** 1990 May;35(3):724–9

Enhanced conditions for DNA fingerprinting with biotinylated M13 bacteriophage. Moreno RF, et al. **J Forensic Sci** 1990 Jul;35(4):831–7

Biostatistical evaluation of evidence from continuous allele frequency distribution deoxyribonucleic acid (DNA) probes in reference to disputed paternity and identity.

Morris JW, et al. **J Forensic Sci** 1989 Nov;34(6):1311–7
Discussion of "Recent application of DNA analysis to issues of paternity" [letter; comment] Pignatti PF, et al. **J Forensic Sci** 1990 May;35(3):517–20 Comment on: J Forensic Sci 1988 Sep;33(5):1107–8.
Discussion of "Recent application of DNA analysis to issues of paternity" [letter; comment] Waye JS. **J Forensic Sci** 1990 Jan;35(1):5–8 Comment on: J Forensic Sci 1988 Sep;33(5):1107–8.
Paternity calculations from DNA multilocus profiles. Evett IW, et al. **J Forensic Sci Soc** 1989 Jul–Aug;29(4):249–54 (3 ref.)
Restriction fragment length polymorphisms of Anisakinae larvae. Sugane K, et al. **J Helminthol** 1989 Dec; 63(4):269–74
Denaturation and condensation of intracellular nucleic acids monitored by fluorescence depolarization of intercalating dyes in individual cells. Beisker W, et al. **J Histochem Cytochem** 1989 Nov;37(11):1699–704
Immunohistochemical localization of polysialic acid in tissue sections: differential binding to polynucleotides and DNA of a murine IgG and a human IgM monoclonal antibody. Husmann M, et al. **J Histochem Cytochem** 1990 Feb; 38(2):209–15
Demonstration of the cell cycle positions of taxol–induced "asters" and "bundles" by sequential measurements of tubulin immunofluorescence, DNA content, and autoradiographic labeling of taxol–sensitive and –resistant cells. Roberts JR, et al. **J Histochem Cytochem** 1989 Nov; 37(11):1659–65
Improved immunocytochemical staining of carcinogen–DNA adducts by a capillary slot block system. Scherer E, et al. **J Histochem Cytochem** 1990 Mar; 38(3):433–6
Characterization of six textile dyes as fluorescent stains for flow cytometry. Simmons DM, et al. **J Histochem Cytochem** 1990 Jan;38(1):41–9
Combined beta–galactosidase and immunogold/silver staining for immunohistochemistry and DNA in situ hybridization. van den Brink W, et al. **J Histochem Cytochem** 1990 Mar;38(3):325–9
Cloning of a DNA fragment displaying restriction fragment length polymorphisms between the genomes of spontaneously hypertensive and Wistar–Kyoto rats. Yagisawa H, et al. **J Hypertens** 1990 Apr;8(4):307–13
7–amino–4–methylcoumarin–3–acetic acid–conjugated streptavidin permits simultaneous flow cytometry analysis of either three cell surface antigens or one cell surface antigen as a function of RNA and DNA content. Aubry JP, et al. **J Immunol Methods** 1990 Mar 27;128(1):39–49
An enzyme–linked immunosorbent assay for the quantitation of DNA. Richardson NA, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):287–9
A flow cytometric technique for simultaneous analysis of human mononuclear cell surface antigens and DNA. Rigg KM, et al. **J Immunol Methods** 1989 Oct 24;123(2):177–84
Differentiation between lymphomas and pseudolymphomas of the skin by computerized DNA–image cytometry. Stolz W, et al. **J Invest Dermatol** 1990 Feb;94(2):254–60
Normolipemic dysbetalipoproteinemia and hyperlipoproteinemia type III in subjects homozygous for a rare genetic apolipoprotein E variant (apoE1). Steinmetz A, et al. **J Lipid Res** 1990 Jun;31(6):1005–13
X linked neonatal myotubular myopathy: one recombination detected with four polymorphic DNA markers from Xq28. Lehesjoki AE, et al. **J Med Genet** 1990 May;27(5):288–91
Reliability of prenatal diagnosis of genetic diseases by analysis of amplified trophoblast DNA. Rosatelli MC, et al. **J Med Genet** 1990 Apr;27(4):249–51
Polymerase chain reaction for detection of Toxoplasma gondii. Savva D, et al. **J Med Microbiol** 1990 May; 32(1):25–31
Localization of ribosomal and telomeric DNA sequences in intact plant nuclei by in–situ hybridization and three–dimensional optical microscopy. Rawlins DJ, et al. **J Microsc** 1990 Jan;157 (Pt 1):83–9
The 'corpuscle' stereological problem—re–evaluation using slab fragment volumes and application to the correction of DNA histograms from sections of spherical nuclei. Rigaut JP, et al. **J Microsc** 1989 Dec;156 (Pt 3):371–82
Structure of nucleosomes and organization of internucleosomal DNA in chromatin. Bavykin SG, et al. **J Mol Biol** 1990 Apr 5;212(3):495–511
Replacement recombinant events targeted at immunoglobulin heavy chain DNA sequences in mouse myeloma cells. Smith AJ, et al. **J Mol Biol** 1990 Jun 5;213(3):415–35
Determination of benzo[a]pyrene diol epoxide–DNA adducts in white blood cell DNA from coke–oven workers: the impact of smoking. van Schooten FJ, et al. **J Natl Cancer Inst** 1990 Jun 6;82(11):927–33
Molecular cloning of cDNAs that encode the chicken Po protein: evidence for early expression in avians. Barbu M. **J Neurosci Res** 1990 Jan;25(1):143–51
Rat dopamine beta–hydroxylase: molecular cloning and characterization of the cDNA and regulation of the mRNA by reserpine. McMahon A, et al. **J Neurosci Res** 1990 Mar; 25(3):395–404
Amplification of DNA for detection of cystic fibrosis–linked polymorphisms. Claustres M, et al. **J Pediatr** 1989 Nov; 115(5 Pt 1):749–52
Diagnosis of prospective malignancy in koilocytic dysplasias of the cervix with DNA cytometry. Chatelain R, et al. **J Reprod Med** 1989 Aug;34(8):505–10
Calculating higher order DNA sequence information measures. Sibbald PR, et al. **J Theor Biol** 1989 Feb 22; 136(4):475–83 (34 ref.)
The study of DNA sequences by their sequences of twist angles. Zhang CT, et al. **J Theor Biol** 1989 Jun 22; 138(4):457–65
Flow cytometric evaluation of multicystic dysplastic kidneys. Jung WH, et al. **J Urol** 1990 Aug;144(2 Pt 2):413–5; discussion 422
Sequential flow cytometry and single gene analysis by enzymatic amplification and allele specific oligonucleotide hybridization of urothelial cells. Meyers FJ, et al. **J Urol** 1989 Dec;142(6):1599–601
Evolution of cardiac involvement in progressive ophthalmoplegia with deleted mitochondrial DNA. Melacini P, et al. **Jpn Heart J** 1990 Jan;31(1):115–20
The value of mucin histochemistry, autoradiography and analysis of cellular DNA content for cancer surveillance in patients with ulcerative colitis. Suzuki H, et al. **Jpn J Surg** 1989 Jul;19(4):387–91 (28 ref.)
Detection of beta–globin gene from single hairs. Liu TC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Apr; 6(4):181–5
Multiparametric deoxyribonucleic acid and cell cycle analysis of breast carcinomas by flow cytometry. Clinicopathologic correlations. Visscher DW, et al. **Lab Invest** 1990 Mar; 62(3):370–8
DNA and the law [editorial] [see comments] **Lancet** 1990 Feb 17;335(8686):381–2 Comment in: Lancet 1990 Mar 10;335(8689):608–9.
Is it a boy? **Lancet** 1990 Jul 14;336(8707):87–8 (16 ref.)
Genetic analysis and pancreatic function in cystic fibrosis [letter] **Lancet** 1990 Jun 30;335(8705):1601
Mutations in medium chain acyl–CoA dehydrogenase deficiency [letter] **Lancet** 1990 Sep 22;336(8717):748–9
Screening for cystic fibrosis: use of delta F508 mutation [letter] Bowling FG, et al. **Lancet** 1990 Apr 14; 335(8694):925–6
Simplified detection of Nci mutation in Gaucher disease [letter] Dahl N, et al. **Lancet** 1990 Jun 30;335(8705):1589–90
Demonstration of cytokines in biological medicines produced in mammalian cell lines. Gearing AJ, et al. **Lancet** 1989 Oct 28;2(8670):1011–2
DNA and the law [letter; comment] Lincoln PJ, et al. **Lancet** 1990 Apr 21;335(8695):980 Comment on: Lancet 1990 Mar 10;335(8689):608–9.
Prenatal sex determination [letter] Lo YM, et al. **Lancet** 1990 Mar 24;335(8691):724
Detection of single–copy fetal DNA sequence from maternal blood [letter] Lo YM, et al. **Lancet** 1990 Jun 16; 335(8703):1463–4
Amplification of a beta–haemoglobin sequence in individual human oocytes and polar bodies. Monk M, et al. **Lancet** 1990 Apr 28;335(8696):985–8
Isolation of fetal trophoblast cells from peripheral blood of pregnant women. Mueller UW, et al. **Lancet** 1990 Jul 28; 336(8709):197–200
Detection of delta F508 deletion by amplification refractory mutation system [letter] Newton CR, et al. **Lancet** 1990 May 19;335(8699):1217–9
Gene/energy interaction in cystic fibrosis [letter] O'Rawe A, et al. **Lancet** 1990 Mar 3;335(8688):552–3
Insulin–resistant diabetes associated with partial deletion of insulin–receptor gene. Shimada F, et al. **Lancet** 1990 May 19;335(8699):1179–81
Prenatal exclusion of Tay–Sachs disease by DNA analysis [letter] Triggs–Raine BL, et al. **Lancet** 1990 May 12; 335(8698):1164
DNA and the law [letter; comment] [see comments] Webb P. **Lancet** 1990 Mar 10;335(8689):608–9 Comment on: Lancet 1990 Feb 17;335(8686):381–2. Comment in: Lancet 1990 Apr 21;335(8695):980.
Predictive diagnosis for polycystic kidney disease using DNA markers [see comments] Mulley JC, et al. **Med J Aust** 1990 Mar 19;152(6):287–9 Comment in: Med J Aust 1990 Mar 19;152(6):281–2.
DNA markers in genetic disease [editorial; comment] Trent RJ. **Med J Aust** 1990 Mar 19;152(6):281–2 Comment on: Med J Aust 1990 Mar 19;152(6):287–9.
Somatostatin gene regulation: an overview. Goodman RH, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):2–5 (26 ref.)
Characterization of a cAMP–regulated enhancer–binding protein. Habener JF, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):13–6
Biotinylated nucleotides for labeling and detecting DNA. Klevan L, et al. **Methods Enzymol** 1990;184:561–77
Instability of the nuclear chromatin of procyclic Trypanosoma brucei brucei. Hecker H, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):225–34
On the DNA content of Trypanosoma cruzi. Kooy RF, et al. **Mol Biochem Parasitol** 1989 Aug;36(1):73–6
SfiI and NotI polymorphisms in Theileria stocks detected by pulsed field gel electrophoresis. Morzaria SP, et al. **Mol Biochem Parasitol** 1990 May;40(2):203–11
A rapid DNA assay for the species–specific detection and quantification of Brugia in blood samples. Poole CB, et al. **Mol Biochem Parasitol** 1990 Apr;40(1):129–36
Preferential modification of GC boxes by benzo[a]pyrene–7,8–diol–9,10–epoxide. Kootstra A, et al. **Mol Carcinog** 1989;1(4):239–44
Purification, cloning and nucleotide sequence determination of cynomolgus monkey apolipoprotein C–II: comparison to the human sequence. Whitted BE, et al. **Mol Cell Biochem** 1989 Oct 5;90(1):69–79
Strong homology between the small subunit of ribulose–1,5–bisphosphate carboxylase/oxygenase of two species of Acetabularia and the occurrence of unusual codon usage. Schneider SU, et al. **Mol Gen Genet** 1989 Sep;218(3):445–52
Exon 2 DNA sequence of the HLA–DRw13b allele obtained from genomes of five different individuals [published erratum appears in Mol Immunol 1990 May;27(5):471] Corell A, et al. **Mol Immunol** 1990 Mar;27(3):313–6
Immunoelectron microscopical visualization of ribonucleoproteins in the chromatoid body of mouse spermatids. Biggiogera M, et al. **Mol Reprod Dev** 1990 Jun; 26(2):150–8
Selection of mouse preimplantation embryos carrying exogenous DNA by polymerase chain reaction. Ninomiya T, et al. **Mol Reprod Dev** 1989;1(4):242–8
Restriction site mutation analysis, a proposed methodology for the detection and study of DNA base changes following mutagen exposure. Parry JM, et al. **Mutagenesis** 1990 May; 5(3):209–12
Use of DNA purified in situ from cells embedded in agarose plugs for the molecular analysis of tk–/– mutants recovered in the L5178Y tk+/– 3.7.2C mutagen assay system. Applegate M, et al. **Mutat Res** 1990 Sep;245(1):55–9
Detection of free radical–induced DNA damage with bromodeoxyuridine/Hoechst flow cytometry: implications for Bloom's syndrome. Poot M, et al. **Mutat Res** 1990 May; 238(3):203–7
Screening for carriers of Tay–Sachs disease among Ashkenazi Jews. A comparison of DNA–based and enzyme–based tests. Triggs–Raine BL, et al. **N Engl J Med** 1990 Jul 5; 323(1):6–12
A DNA diagnostic service. Beresford CH, et al. **N Z Med J** 1990 Mar 14;103(885):101–2
Diagnosis and the polymerase chain reaction [see comments] George PM. **N Z Med J** 1990 Feb 14;103(883):39–40 Comment in: N Z Med J 1990 Jun 13;103(891):281.
DNA analysis using polymerase chain reactions in the families of children with cystic fibrosis. Sullivan MJ, et al. **N Z Med J** 1990 May 9;103(889):216–7
Light–based detection of biomolecules. Durrant I. **Nature** 1990 Jul 19;346(6281):297–8
Cell biology: firm base for basal body DNA [news] Hyams JS. **Nature** 1989 Oct 12;341(6242):485–6
Understanding gel electrophoresis [news] Maddox J. **Nature** 1990 May 31;345(6274):381
Silver staining of proteins and DNA. Merril CR. **Nature** 1990 Feb 22;343(6260):779–80
Fluorescence energy transfer shows that the four–way DNA junction is a right–handed cross of antiparallel molecules. Murchie AI, et al. **Nature** 1989 Oct 26;341(6244):763–6
The effect of indomethacin on nucleic acids in blood, hemopoietic and lymphoid tissues in continuously irradiated rats. Mišúrová E, et al. **Neoplasma** 1989; 36(5):541–7
Molecular biology of diazepam binding inhibitor peptide. Mocchetti I. **Neurochem Res** 1990 Feb;15(2):125–30 (25 ref.)
cDNA clones coding for the structural subunit of a chicken brain nicotinic acetylcholine receptor. Schoepfer R, et al. **Neuron** 1988 May;1(3):241–8
Analysis of DNA from tooth and application to forensic dental medicine. Yamada Y, et al. **Nippon Hoigaku Zasshi** 1989 Oct;43(5):420–3
Restriction fragment length polymorphism as a genetic marker of the c–myc oncogene in rats. Kunieda T, et al. **Nippon Juigaku Zasshi** 1989 Dec;51(6):1295–8
A method for differentiating between monozygotic and dizygotic twins. Takahashi H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Dec; 41(12):2005–9
Optimization of non–radioactive Southern blot hybridization: single copy detection and reuse of blots. Allefs JJ, et al. **Nucleic Acids Res** 1990 May 25;18(10):3099–100
Phylogenetic evidence of a role for 5–hydroxymethyluracil–DNA glycosylase in the maintenance of 5–methylcytosine in DNA. Boorstein RJ, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7653–61
Structural DNA analysis from a single hair root by standard or pulsed field gel electrophoresis. Boultwood J, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4628
A simple discontinuous buffer system for increased resolution and speed in gel electrophoretic analysis of DNA sequence. Carninci P, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):204
UV shadowing provides a simple means to quantify nucleic acid transferred to hybridization membranes. Herrera RE, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8892
An easy method to check the efficiency of biotin end–labelling of DNA–fragments. Holmstrøm K, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4632
Pulsed field gel electrophoresis using a double–decker gel system. Nagy A, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5317–8
Rapid preparation of DNA dot blots from tissue samples, using hot alkaline lysis and filtration onto charge–modified nylon membrane. Reed KC, et al. **Nucleic Acids Res** 1990 May 25;18(10):3093
A Hoechst H33258 agarose plate assay for the estimation of nanogram DNA levels without RNA interference: applications in PCR and in estimations of plasmid and

cytoplasmic DNA. Rieber MS, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1918

Rapid determination of DNA concentration in multiple samples. Riley J, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8383

Primer extension technique for the detection of single nucleotide in genomic DNA. Sokolov BP. **Nucleic Acids Res** 1990 Jun 25;18(12):3671

How different DNA sequences are recognized by a DNA–binding protein: effects of partial proteolysis. Supakar PC, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8611–29

Polyacrylamide gradient gel electrophoresis for the detection of bended DNA fragments. Zacharias M, et al. **Nucleic Acids Res** 1990 May 11;18(9):2827

Rat myogenic c-mos cDNA: cloning sequence analysis and regulation during muscle development. Leibovitch SA, et al. **Oncogene** 1990 Aug;5(8):1149–57

Characterization of TIS7, a gene induced in Swiss 3T3 cells by the tumor promoter tetradecanoyl phorbol acetate. Varnum BC, et al. **Oncogene** 1989 Oct;4(10):1263–5

New urine test for diagnosis of urothelial carcinoma [news] **Oncology (Williston Park)** 1990 Mar;4(3):70

Acinic cell carcinoma of the salivary glands: the prognostic relevance of DNA cytophotometry in a retrospective study of long duration (1965–1987). Hamper K, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jan;69(1):68–75

Increase of DNA content in tissue stages of Entamoeba histolytica strain SFL 3. Mackenstedt U, et al. **Parasitol Res** 1990;76(5):373–8

Sexual cycle of Babesia divergens confirmed by DNA measurements. Mackenstedt U, et al. **Parasitol Res** 1990; 76(3):199–206

Characterization and grouping of Trypanosoma cruzi stocks by DNA base–specific fluorochromes and discriminant analysis. Mühlpfordt H, et al. **Parasitol Res** 1990; 76(4):319–25

Characterization of West African Trypanosoma (Trypanozoon) brucei isolates from man and animals using isoenzyme analysis and DNA hybridization. Richner D, et al. **Parasitol Res** 1989;76(1):80–5

Study on genetic polymorphism of Leishmania infantum through the analysis of restriction enzyme digestion patterns of kinetoplast DNA. Angelici MC, et al. **Parasitology** 1989 Dec;99 Pt 3:301–9

Differential diagnosis of Taenia saginata and Taenia solium with DNA probes. Harrison LJ, et al. **Parasitology** 1990 Jun;100 Pt 3:459–61

The use of biotin–labelled, synthetic DNA oligomers for the detection and identification of Plasmodium falciparum. Hughes MA, et al. **Parasitology** 1990 Jun;100 Pt 3:383–7

DNA cytometry of soft tissue tumours with TV image–analysis system. Sápi Z, et al. **Pathol Res Pract** 1989 Sep;185(3):363–7

A stable double–stranded DNA–ethidium homodimer complex: application to picogram fluorescence detection of DNA in agarose gels. Glazer AN, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3851–5

cDNA sequence of the long terminal repeat of a PrB strain of the Rous sarcoma virus. Chao TJ. **Proc Natl Sci Counc Repub China [B]** 1989 Jul;13(3):210–7

Comparison of 5' region sequences of human and rabbit phosphofructokinase genes. Kao MC, et al. **Proc Natl Sci Counc Repub China [B]** 1990 Jan;14(1):15–9

In situ detection of DNA damage in single cells or tissue sections by quantitative immunofluorescence microscopy. Baan RA, et al. **Prog Clin Biol Res** 1990;340A:101–12

Immunologic methods for the detection of carcinogen adducts in humans. Santella RM, et al. **Prog Clin Biol Res** 1990;340C:247–57 (26 ref.)

The chicken B–complex in commercial pure lines: comparison of polymorphisms defined by serotyping and DNA analysis. Tilanus MG, et al. **Prog Clin Biol Res** 1989; 307:187–96

DNA sequence analysis of newly formed telomeres in yeast. Wang SS, et al. **Prog Clin Biol Res** 1989;318:81–9

Flow cytometric analysis of localized adenocarcinoma of the prostate: the use of archival DNA analysis in conjunction with pathological grading to predict clinical outcome following radical retropubic prostatectomy. Ring KS, et al. **Prostate** 1990;17(2):155–64

DNA hybridization for the diagnosis of microbial disease. Hopkin JM, et al. **Q J Med** 1990 May;75(277):415–21 (37 ref.)

Molecular characterisation of a low–frequency mutation in exon 8 of the human low–density lipoprotein receptor gene. Kotze MJ, et al. **S Afr Med J** 1989 Oct 21;76(8):402–5

DNA distribution pattern in chronic gastritis. I. DNA ploidy and cell cycle distribution. Weiss H, et al. **Scand J Gastroenterol** 1989 Aug;24(6):643–8

Neurotoxicity of 1,1,1–trichloroethane questioned [letter; comment] Verschuuren HG, et al. **Scand J Work Environ Health** 1990 Apr;16(2):144–6 Comment on: Scand J Work Environ Health 1989 Oct;13(5):453–8.

DNA fingerprinting [letter] [published erratum appears in Science 1990 Mar 16;247(4948):1281] **Science** 1990 Mar 2; 247(4946):1018–9

Science gives ivory a sense of identity [news] Marx J. **Science** 1989 Dec 1;246(4934):1120–1

In vivo footprinting of a muscle specific enhancer by ligation mediated PCR [published erratum appears in Science 1990 May 18;248(4957):802] Mueller PR, et al. **Science** 1989 Nov 10;246(4931):780–6

New scissors for cutting chromosomes [news] Roberts L. **Science** 1990 Jul 13;249(4965):127

Intercalation complex of proflavine with DNA: structure and dynamics by solid–state NMR. Tang P, et al. **Science** 1990 Jul 6;249(4964):70–2

Diagnosis at the bedside by gene analysis. Phillips JA 3d. **South Med J** 1990 Aug;83(8):868–75 (15 ref.)

In situ nucleic acid hybridization. Freeman WR, et al. **Surv Ophthalmol** 1989 Nov–Dec;34(3):187–92 (19 ref.)

Prenatal diagnosis of hemophilia A by DNA analysis of chorionic villi. Ko TM, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Mar;89(3):194–8

32P–postlabeling of 7–methylguanine adducts in DNA. Hemminki K, et al. **Teratogenesis Carcinog Mutagen** 1990; 10(3):223–30

Cytotoxicity, anchorage–independent growth, and DNA adduct formation in human neonatal fibroblasts by 1,2,3,4–tetrahydro–7,12–dimethylbenz(a)–anthracene (TH–DMBA), its six aryl fluoro regioisomers, and an exo methylene tautomer. Kumari HL, et al. **Teratogenesis Carcinog Mutagen** 1990;10(3):247–62

Complementary DNA sequence of 3–methylcholanthrene–inducible P–450 from the rat lung. Kikuchi H, et al. **Tohoku J Exp Med** 1990 Apr; 160(4):323–32

Concentration– and time–dependent formation of DNA adducts in lungs of rats exposed to diesel exhaust. Bond JA, et al. **Toxicology** 1990 Jan–Feb;60(1–2):127–35

Nucleotide sequence and structure analysis of cDNAs encoding short–chain neurotoxins from venom glands of a sea snake (Aipysurus laevis). Ducancel F, et al. **Toxicon** 1990;28(1):119–23

Characterization of Leishmania donovani stocks by genomic DNA heterogeneity and molecular karyotype. Bishop RP, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct; 83(5):629–34

The feasibility of discrimination between Leishmania and Endotrypanum using total parasite DNA probes. Greig SR, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):196

Better fingerprinting with PCR. Bellamy R, et al. **Trends Genet** 1990 Feb;6(2):32

Recovery of agarose for electrophoresis of DNA fragments. Ceccarelli EA, et al. **Trends Genet** 1990 Mar;6(3):72

Comparison of flow cytometry to routine testicular biopsy in male infertility. Hellstrom WJ, et al. **Urology** 1990 Apr; 35(4):321–6

Characterization of a repetitive DNA probe for Babesia bigemina. Buening GM, et al. **Vet Parasitol** 1990 May; 36(1–2):11–20

Characterisation of Giardia species of canine and human origin using RFLPs [letter] Hay DC, et al. **Vet Rec** 1990 Mar 17;126(11):274

Diagnosis of ovine toxoplasmosis using PCR [letter] Wheeler R, et al. **Vet Rec** 1990 Mar 10;126(10):249

DNA ploidy and proliferative activity of human pulmonary epithelium. Hamada S, et al. **Virchows Arch [B]** 1990; 58(6):405–10

DNA recommendation. Executive Committee of the International Society for Forensic Haemogenetics. **Vox Sang** 1989;57(4):276–7

DNA analysis and parathyroid pathology. Shenton BK, et al. **World J Surg** 1990 May–Jun;14(3):296–301; discussion 302

The effect of various stain carriers on the quality and quantity of DNA extracted from dried bloodstains. Prinz M, et al. **Z Rechtsmed** 1990;103(3):191–7

[Flow cytometric analysis of NIH/3T3 cells treated with extract of Aspergillus versicolor] Wang FR. **Chung Hua Chung Liu Tsa Chih** 1989 Nov;11(6):425–8 (Eng. Abstr.) **(Chi)**

[A study of DNA fingerprinting in China] Xiang KS. **Chung Hua I Hsueh Tsa Chih** 1989 Oct;69(10):569–72, 40 (Eng. Abstr.) **(Chi)**

[Influence of congenital hypothyroidism on the developing rat brain and improvement after thyroid replacement therapy] Chen Y. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Oct; 22(5):285–8, 318 (Eng. Abstr.) **(Chi)**

[Flow cytometry in determination of DNA content of lymphoid cells: study of methodology and its preliminary clinical application] Zhang ZG, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):298–301 (Eng. Abstr.) **(Chi)**

[Detection of sickle cell gene by analysis of amplified DNA sequences] Huang SZ, et al. **I Chuan Hsueh Pao** 1989; 16(6):475–82 (Eng. Abstr.) **(Chi)**

[Characterization of a cloned DNA fragment of rice chloroplast and location rbcL gene in the recombinant plasmid] Shen ZW, et al. **I Chuan Hsueh Pao** 1989; 16(6):430–5 (Eng. Abstr.) **(Chi)**

[Photometric scanning of area and relative content of DNA in human metaphase chromosome with a microscope photometer] Zhou Y, et al. **I Chuan Hsueh Pao** 1988; 15(5):389–95 (Eng. Abstr.) **(Chi)**

[Strategies in prenatal diagnosis of cystic fibrosis after the introduction of DNA analysis. Initial experience] Sedláček Z, et al. **Cas Lek Cesk** 1990 Jun 1;129(22):683–8 (Eng. Abstr.) **(Cze)**

[Procedure and initial results of presymptomatic DNA studies in Huntington's chorea] Roos RA, et al. **Ned Tijdschr Geneeskd** 1990 Apr 7;134(14):704–7 (Eng. Abstr.) **(Dut)**

[Presymptomatic DNA diagnosis in Huntington's chorea: reactions to the certainty of not being a genetic carrier] Tibben A, et al. **Ned Tijdschr Geneeskd** 1990 Apr 7; 134(14):701–4 (Eng. Abstr.) **(Dut)**

[Dna ploidy in adenocarcinoma of Barrett's esophagus] Flejou JF, et al. **Ann Pathol** 1990;10(3):161–5 (Eng. Abstr.) **(Fre)**

[PvuII restriction polymorphism of class I genes in ankylosing spondylarthritis. Absence of relation with the 9,2 kb band] Demazière A, et al. **Rev Rhum Mal Osteoartic** 1990 Jan;57(1):53–7 **(Fre)**

[Nucleic acid components in carbohydrate–rich food] Lassek E, et al. **Z Lebensm Unters Forsch** 1990 Jan;190(1):17–21 (Eng. Abstr.) **(Ger)**

[DNA fingerprinting in paternity testing] Gazit E, et al. **Harefuah** 1990 Feb 1;118(3):129–33 (Eng. Abstr.) **(Heb)**

[Prostate–specific antigen (PA) and deoxyribonucleic acid (DNA) analysis in prostatic epithelial cells using flow cytometry] Shimabukuro T, et al. **Hinyokika Kiyo** 1989 Aug;35(8):1335–7 (Eng. Abstr.) **(Jpn)**

[Nuclear DNA cytofluorometry of normal human laryngeal epithelia and squamous cell carcinoma] Yasuda N, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Nov;92(11):1876–83 (Eng. Abstr.) **(Jpn)**

[Microcytofluorometrical measurement of DNA content in immunologically identified micromegakaryocytes of human bone marrow] Kobayashi Y, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Nov;52(7):1165–9 (Eng. Abstr.) **(Jpn)**

[DNA diagnosis of hereditary diseases] **Nippon Rinsho** 1989 May;47 Suppl:187–476 **(Jpn)**

[Clinical immunology and DNA diagnosis] **Nippon Rinsho** 1989 May;47 Suppl:479–576 **(Jpn)**

[Basic molecular biological technics necessary in DNA diagnosis] **Nippon Rinsho** 1989 May;47 Suppl:67–184 **(Jpn)**

[Basic information necessary for DNA diagnosis] **Nippon Rinsho** 1989 May;47 Suppl:7–64 **(Jpn)**

[DNA diagnosis of infections] **Nippon Rinsho** 1989 May;47 Suppl:737–823 **(Jpn)**

[Miscellaneous application of DNA diagnosis] **Nippon Rinsho** 1989 May;47 Suppl:827–47 **(Jpn)**

[Molecular diagnosis of leukemia] Okabe M, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:1078–85 **(Jpn)**

[DNA diagnosis of hereditary diseases] Sasaki H. **Nippon Rinsho** 1990 Feb;48 Suppl:1073–7 **(Jpn)**

[Microspectrophotometric DNA analysis in ulcerative colitis with special reference to its application for cancer and dysplasia diagnosis] Suzuki K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2196–203 (Eng. Abstr.) **(Jpn)**

[DNA diagnosis and laboratory tests] Ueda K. **Rinsho Byori** 1989 Oct;37(10):1122–7 (Eng. Abstr.) **(Jpn)**

[Megakaryocyte ploidy in patients with myelodysplastic syndrome—by microcytofluorometry with DAPI staining after removal of Wright–Giemsa staining] Kobayashi Y, et al. **Rinsho Ketsueki** 1989 Nov;30(11):1915–22 (Eng. Abstr.) **(Jpn)**

[DNA diagnosis of inborn errors of metabolism] Maeda S, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):449–56 **(Jpn)**

[Photomodification of nucleic acids by N–(2–hydroxyethyl)phenazine derivatives of oligonucleotides] Zarytova VF, et al. **Bioorg Khim** 1990 May;16(5):595–602 (Eng. Abstr.) **(Rus)**

[The effect of transition phase–like adsorption of ligands on the molecular melting of DNA] Lando DIu, et al. **Dokl Akad Nauk SSSR** 1990;310(6):1496–500 **(Rus)**

[The role of pulsed gel electrophoresis in the study of biological macromolecules] Chebotarev VIu, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):598–613 (42 ref.) (Eng. Abstr.) **(Rus)**

[Hydrodynamic and optical behavior of DNA molecule in the range of high ionic strength] Frisman EV, et al. **Mol Biol (Mosk)** 1990 Mar–Apr;24(2):318–27 (Eng. Abstr.) **(Rus)**

[Structure of the chromatin with long linker DNA] Osipova TN, et al. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):69–78 (Eng. Abstr.) **(Rus)**

[The effect of temperature and ionic strength on the electrophoretic motility of synthetic DNA fragments] Shliakhtenko LS, et al. **Mol Biol (Mosk)** 1990 Jan–Feb; 24(1):79–95 (Eng. Abstr.) **(Rus)**

[Differential scattering of circularly polarized light in protonated DNA in the presence of spermine] Slonitskiĭ SV, et al. **Mol Biol (Mosk)** 1990 Mar–Apr;24(2):328–33 (Eng. Abstr.) **(Rus)**

[The effect of spermine on acid–base equilibrium in DNA molecule] Slonitskiĭ SV, et al. **Mol Biol (Mosk)** 1990 Mar–Apr;24(2):334–45 (Eng. Abstr.) **(Rus)**

[Changes in the amount and synthesis of DNA in the nuclei of large decidual cells in rats during their differentiation] Mikhailov VM, et al. **Tsitologiia** 1989 Jun;31(6):677–84 (Eng. Abstr.) **(Rus)**

[The effect of space flight conditions on the rate of multiplication, morphology of cells, DNA and protein content in the ciliate Tetrahymena pyriformis] Prilina IS, et al. **Tsitologiia** 1989 Jul;31(7):829–38 (Eng. Abstr.) **(Rus)**

[A photographic microfluorimetric method for determining

the DNA content in individual human chromosomes] Sukhikh TR, et al. **Tsitologiia** 1989 Nov;31(11):1329–38 (Eng. Abstr.) **(Rus)**

[Prenatal diagnosis of cystic fibrosis, using DNA markers, in Spanish families: experience during 1987–1989] Casals Senent T, et al. **An Esp Pediatr** 1990 Apr;32(4):287–92 (Eng. Abstr.) **(Spa)**

[Molecular detection of cystic fibrosis in a Mexican family. From molecular biology to medicine] Fernández M, et al. **Gac Med Mex** 1989 Jan–Feb;125(1–2):45–50 **(Spa)**

[Application of DNA analysis to the study of hereditary neurological diseases] Baiget M. **Neurologia** 1988 May–Jun; 3(3):106–15 (41 ref.) **(Spa)**

[Diagnosis using DNA studies] Benítez J. **Rev Clin Esp** 1990 Apr;186(6):281–5 (19 ref.) **(Spa)**

ANTAGONISTS & INHIBITORS

Synergy of inhibition of DNA synthesis in human bone marrow by azidothymidine plus deficiency of folate and/or vitamin B12? Herzlich BC, et al. **Am J Hematol** 1990 Mar; 33(3):177–83

Injury–induced inhibition of small intestinal protein and nucleic acid synthesis. Carter EA, et al. **Gastroenterology** 1990 Jun;98(6):1445–51

DNA synthesis inhibitors in cellular senescence. Smith JR. **J Gerontol** 1990 Mar;45(2):B32–5 (31 ref.)

BIOSYNTHESIS

DNA synthesis in human retinal pigment epithelium in organ culture. Nicolaissen B, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):435–40

Relationship between depression of HBsAg production and DNA synthesis by interferons in human hepatoma cell line. Hajnická V, et al. **Acta Virol (Praha)** 1990 Feb;34(1):44–8

Proliferative effect of insulin by selective gene expression in purine metabolic pathway in primary cultured rat hepatocytes. Yoshikawa H, et al. **Adv Exp Med Biol** 1989; 253B:37–42

Optimal conditions for synthesizing complementary DNA in the HIV–1 endogenous reverse transcriptase reaction. Yong WH, et al. **AIDS** 1990 Mar;4(3):199–206

Macromolecular synthesis in the isolated rat myointima in vitro. Hartmann JF, et al. **Am J Pathol** 1990 Jun; 136(6):1437–44

[3H]thymidine incorporation does not correlate with growth state in cultured alveolar type II cells. Clement A, et al. **Am J Respir Cell Mol Biol** 1990 Aug;3(2):159–64

Anti–RMA, a murine monoclonal antibody, activates rat macrophages: II. Induction of DNA synthesis and formation of multinucleated giant cells. Lazarus D, et al. **Am J Respir Cell Mol Biol** 1990 Aug;3(2):103–11

Heparin–binding growth factors stimulate DNA synthesis in rat alveolar type II cells. Leslie CC, et al. **Am J Respir Cell Mol Biol** 1990 Jan;2(1):99–106

Low–ratio hybridization subtraction. Fargnoli J, et al. **Anal Biochem** 1990 Jun;187(2):364–73

Testicular macromolecular synthesis in men with varicocele. Nakamura M, et al. **Arch Androl** 1990;24(1):69–72

Dissociation between c–fos gene expression and DNA synthesis in rat parotid glands. Mirels L, et al. **Arch Oral Biol** 1989;34(7):511–5

Serotonin plays a major role in serum–induced phospholipase C–mediated hydrolysis of phosphoinositides and DNA synthesis in vascular smooth muscle cells. Araki S, et al. **Atherosclerosis** 1990 Jul;83(1):29–34

Enhanced DNA synthesis of cultured vascular smooth muscle cells from spontaneously hypertensive rats. Difference of response to growth factor, intracellular free calcium concentration and DNA synthesizing cell cycle. Hamada M, et al. **Atherosclerosis** 1990 Apr;81(3):191–8

Differences in mitogenic responses to angiotensin II, calf serum and phorbol ester in vascular smooth muscle cells from two strains of genetically hypertensive rat. Harris EL, et al. **Biochem Biophys Res Commun** 1990 Aug 16; 170(3):1249–55

Homologous pairing in vitro initiated by DNA synthesis. Kodadek T, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):302–9

Activation of 'immediate–early' genes by estrogen is not sufficient to achieve stimulation of DNA synthesis in rat uterus. Perrˇzo E, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):287–92

Autocrine effect of endothelin on DNA synthesis in human vascular endothelial cells. Takagi Y, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):537–43

Extracellular ATP shows synergistic enhancement of DNA synthesis when combined with agents that are active in wound healing or as neurotransmitters. Wang DJ, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):251–8

Different pathways of DNA synthesis are operative in the fat body of Spodoptera litura (insecta) during larval and pupal development. Dutta–Gupta A, et al. **Biochem Int** 1989 Oct;19(4):827–34

Endothelin stimulates DNA synthesis in Swiss 3T3 cells. Synergy with polypeptide growth factors. Brown KD, et al. **Biochem J** 1989 Nov 1;263(3):977–80

The effect of various concentrations of nucleobases, nucleosides or glutamine on the incorporation of [3H]thymidine into DNA in rat mesenteric–lymph–node lymphocytes stimulated by phytohaemaggiutinin. Szondy Z, et al. **Biochem J** 1990 Sep 1;270(2):437–40

Endothelin stimulates phosphatidylinositol hydrolysis and DNA synthesis in brain capillary endothelial cells. Vigne P, et al. **Biochem J** 1990 Mar 1;266(2):415–20

Effect of trifluoperazine on DNA and LDL–receptor synthesis in smooth muscle cells exposed to hypercholesterolemic medium in vitro. Mehta U, et al. **Biochem Med Metab Biol** 1990 Apr;43(2):175–81

Zinc increases EGF–stimulated DNA synthesis in primary mouse hepatocytes. Studies in tumor promoter–treated cell cultures. Kobusch AB, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):555–8

Nerve growth factor–induced increase in [3H]thymidine incorporation into parotid and submandibular glands of young rats and its partial blockade by propranolol or partial sialoadenectomy. Schneyer CA, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1679–86

Lithium potentiates vasopressin–, angiotensin II– and noradrenaline–induced DNA synthesis in rat hepatocytes. Strain AJ, et al. **Biochem Soc Trans** 1990 Jun;18(3):455

Expression of human alpha 2–macroglobulin cDNA in baby hamster kidney fibroblasts: secretion of high levels of active alpha 2–macroglobulin. Boel E, et al. **Biochemistry** 1990 May 1;29(17):4081–7

Bleomycin–induced DNA repair synthesis in permeable human fibroblasts: mediation of long–patch and short–patch repair by distinct DNA polymerases. DiGiuseppe JA, et al. **Biochemistry** 1989 Nov 28;28(24):9515–20

Mechanism of HIV reverse transcriptase: enzyme–primer interaction as revealed through studies of a dNTP analogue, 3'–azido–dTTP. Kedar PS, et al. **Biochemistry** 1990 Apr 17;29(15):3603–11

Structure–function analysis of mononucleotides and short oligonucleotides in the priming of enzymatic DNA synthesis. Nevinsky GA, et al. **Biochemistry** 1990 Feb 6; 29(5):1200–7

Expression of the copy DNA for human A4 and B4 L–lactate dehydrogenases in Escherichia coli. Barstow DA, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):73–9

Nucleoids, a subnuclear system capable of chain elongation. Collins JM, et al. **Biochim Biophys Acta** 1989 Dec 22; 1009(3):264–76

Modulation of DNA synthesis in cultured muscle cells by 1,25–dihydroxyvitamin D–3. Drittanti L, et al. **Biochim Biophys Acta** 1989 Nov 20;1014(2):112–9

A trypsin–like proteinase appearing at 17 h and 17 min in the cell cycle time of HeLa cells correlates with the onset of DNA synthesis. Muramatu M, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):87–90

Effects of epidermal growth factor on protein degradation the translocation of non–histone proteins to the nucleus and DNA synthesis. Polet H, et al. **Biochim Biophys Acta** 1989 Oct 9;1013(3):279–86

Effect of colchicine and vincristine on DNA synthesis in regenerating rat liver. Tsukamoto I, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):191–3

Autoantibodies from patients with systemic lupus erythematosus can affect DNA and RNA synthesis in cultured cells. Van Helden PD, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):137–42

A monoclonal antibody against PDGF B–chain inhibits PDGF–induced DNA synthesis in C3H fibroblasts and prevents binding of PDGF to its receptor. Vassbotn FS, et al. **Biochim Biophys Acta** 1990 Sep 1;1054(2):246–9

Neomycin inhibits PDGF–induced IP3 formation and DNA synthesis but not PDGF–stimulated uptake of inorganic phosphate in C3H/10T1/2 fibroblasts. Vassbotn FS, et al. **Biochim Biophys Acta** 1990 Sep 1;1054(2):207–12

Semiconservative and unscheduled DNA synthesis on mammalian cells and its modification by glyoxylic compounds. Cornago P, et al. **Biochimie** 1989 Nov–Dec; 71(11–12):1205–10

Effects of human and ovine pancreatic secretory trypsin inhibitors on the proliferation of normal human fibroblasts. Hamilton I, et al. **Biol Chem Hoppe Seyler** 1990 Jan; 371(1):79–83

Temporal and topographic changes in DNA synthesis after induced follicular atresia. Greenwald GS. **Biol Reprod** 1989 Jul;41(1):175–81

Gastric DNA synthesis rate in different experimental models of duodenal reflux. Marotta F, et al. **Biomed Pharmacother** 1989;43(9):681–6

Increasing cytostatic effects of ricin A chain and Staphylococcus aureus enterotoxin A through in vitro hydrophobization with fatty acid residues. Alakhov VYu, et al. **Biotechnol Appl Biochem** 1990 Feb;12(1):94–8

An acidic fibroblast growth factor stimulates DNA synthesis, inhibits collagen and alkaline phosphatase synthesis and induces resorption in bone. Shen V, et al. **Bone Miner** 1989 Nov;7(3):205–19

Effects of halothane on DNA synthesis and mitosis in root tip meristems of Vicia faba. Grant CJ, et al. **Br J Anaesth** 1974 Sep;46(9):653–7

Changes in growth characteristics and macromolecular synthesis on recovery from severe hypoxia. Wilson RE, et al. **Br J Cancer** 1990 Jan;61(1):14–21

Tissue protein synthesis and nucleic acid concentrations in steers treated with somatotropin. Eisemann JH, et al. **Br J Nutr** 1989 Nov;62(3):657–71

Antitumor effects of rhodium (II) citrate in mice bearing Ehrlich tumors. Zyngier S, et al. **Braz J Med Biol Res** 1989;22(3):397–401

Studies on the kinetics of expression of cell cycle dependent proto–oncogenes during mitogen–induced liver cell proliferation. Coni P, et al. **Cancer Lett** 1989 Sep 15; 47(1–2):115–9

Long–term inhibition of DNA synthesis and the persistence of trapped topoisomerase II complexes in determining the toxicity of the antitumor DNA intercalators mAMSA and mitoxantrone. Fox ME, et al. **Cancer Res** 1990 Sep 15; 50(18):5813–8

Ability of the Ca2+ ionophores A23187 and ionomycin to mimic some of the effects of the tumor promoter 12–O–tetradecanoylphorbol–13–acetate on hydroperoxide production, ornithine decarboxylase activity, and DNA synthesis in mouse epidermis in vivo. Perchellet EM, et al. **Cancer Res** 1990 Sep 15;50(18):5806–12

Metabolic effects of hydroxyurea on BHK–21 cells transformed with polyoma virus. Pollak RD, et al. **Cancer Res** 1967 Jul;27(7):1214–24

Nucleic acid and phospholipid synthesis in the regenerating liver of tumor–bearing mice. Theologides A, et al. **Cancer Res** 1967 Jul;27(7):1270–7

Effects of retinoic acid on epidermal DNA synthesis induced by 12–O–tetradecanoylphorbol–13–acetate, mezerein or ethylphenylpropiolate in hairless mice. Paulsen JE. **Carcinogenesis** 1990 Aug;11(8):1255–8

Effects produced by the non–genotoxic hepatocarcinogen methylclofenapate in dwarf mice: peroxisome induction uncoupled from DNA synthesis and nuclearity changes. Styles JA, et al. **Carcinogenesis** 1990 Mar;11(3):387–91

Stimulation of DNA synthesis in primary rat hepatocyte cultures by liver tumor promoters: interactions with other growth factors. Yusof YA, et al. **Carcinogenesis** 1990 May; 11(5):761–70

Phospholipase C–mediated hydrolysis of phosphatidylcholine is an important step in PDGF–stimulated DNA synthesis. Larrodera P, et al. **Cell** 1990 Jun 15;61(6):1113–20

Activity of 2–acetylaminofluorene as a UDS inducing agent in B6C3F1 mouse hepatocytes in vitro. Lefevre PA, et al. **Cell Biol Toxicol** 1990 Jan;6(1):15–21

Unscheduled DNA synthesis correlated to alkylation of hemoglobin in individuals occupationally exposed to propylene oxide. Pero RW, et al. **Cell Biol Toxicol** 1985 Oct;1(4):309–14

Human T cell leukemia virus type I induces DNA synthesis and immunoglobulin secretion in human lymphocyte cultures. Boyer V, et al. **Cell Immunol** 1990 Sep; 129(2):341–50

Electron microscopic radioautographic studies on DNA synthesis in the hepatocytes of aging mice as observed by image analysis. Ma HJ, et al. **Cell Mol Biol** 1990;36(1):73–84

Tracer dose and availability time of thymidine and bromodeoxyuridine: application of bromodeoxyuridine in cell kinetic studies. Böswald M, et al. **Cell Tissue Kinet** 1990 May;23(3):169–81

Double labelling of cells with tritiated thymidine and bromodeoxyuridine reveals a circadian rhythm–dependent variation in duration of DNA synthesis and S phase flux rates in rodent oral epithelium. Hume WJ, et al. **Cell Tissue Kinet** 1990 Jul;23(4):313–23

DNA synthesis in Langerhans' cells of mouse ear epithelium revealed by tritiated thymidine autoradiography and histochemical staining for non–specific esterase and beta–glucuronidase activity. Hume WJ, et al. **Cell Tissue Kinet** 1989 Jul;22(4):311–8

Inhibition of stage–specific DNA synthesis in rat spermatogenic cells by polycyclic aromatic hydrocarbons. Georgellis A, et al. **Chem Biol Interact** 1989;72(1–2):79–92

The inhibitory effect of deferoxamine on DNA synthesis in human lymphocytes. Wang ST, et al. **Chin Med J [Engl]** 1989 Dec;102(12):902–5

Time course of smooth muscle cell proliferation in the intima and media of arteries following experimental angioplasty. Hanke H, et al. **Circ Res** 1990 Sep;67(3):651–9

Triggerlike stimulation of cholesterol accumulation and DNA and extracellular matrix synthesis induced by atherogenic serum or low density lipoprotein in cultured cells. Orekhov AN, et al. **Circ Res** 1990 Feb;66(2):311–20

Developmental profile of DNA synthesis and hydrolase activities in human fetal kidney. Brière N, et al. **Clin Biochem** 1989 Oct;22(5):385–8

Selectively enhanced stimulation of DNA synthesis by EGF in vascular smooth muscle cells from young and adult SHR. Suithichaiyakul T, et al. **Clin Exp Hypertens [A]** 1990; 12(3):307–16

Flavone acetic acid suppresses human peripheral blood lymphocyte and human colonic lamina propria lymphocyte DNA synthesis. Elitsur Y, et al. **Clin Immunol Immunopathol** 1990 Oct;57(1):96–104

Stimulation of DNA synthesis in human and bovine RPE by peptide growth factors: the response to TNF–alpha and EGF is dependent upon culture density. Burke JM. **Curr Eye Res** 1989 Dec;8(12):1279–86

Decrease of ultraviolet–induced DNA injury in human skin by p–aminobenzoic acid esters. De Rijcke S, et al. **Dermatologica** 1989;179(4):196–9

Control of peripheral glial cell proliferation: enteric neurons exert an inhibitory influence on Schwann cell and enteric glial cell DNA synthesis in culture. Eccleston PA, et al. **Development** 1989 Sep;107(1):107–12

Stimulatory effects of basic fibroblast growth factor on DNA synthesis in the human embryonic cornea. Hyldahl L, et al. **Development** 1990 Jul;109(3):605–11

Effects of ethanol in vitro on some parameters of the immune

response. Levallois C, et al. **Drug Alcohol Depend** 1989 Dec;24(3):239–44

Repeatedly passed FRTL-5 rat thyroid cells can develop insulin and insulin-like growth factor-I-sensitive cyclooxygenase and prostaglandin E2 isomerase-like activities together with altered basal and thyrotropin-responsive thymidine incorporation into DNA. Bellur S, et al. **Endocrinology** 1990 Sep; 127(3):1526–40

Insulin-like growth factor-binding protein (IGF-BP) inhibition of granulosa cell function: effect on cyclic adenosine 3',5'-monophosphate, deoxyribonucleic acid synthesis, and comparison with the effect of an IGF-I antibody. Bicsak TA, et al. **Endocrinology** 1990 Apr; 126(4):2184–9

Gonadotropin induction of c-fos and c-myc expression and deoxyribonucleic acid synthesis in rat granulosa cells. Delidow BC, et al. **Endocrinology** 1990 May;126(5):2302–6

Deoxyribonucleic acid synthesis in cultured adult rat pancreatic B cells. De Vroede MA, et al. **Endocrinology** 1990 Sep;127(3):1510–6

Growth hormone-dependent events in the adipose differentiation of 3T3-F442A fibroblasts: modulation of macromolecular synthesis. Guller S, et al. **Endocrinology** 1989 Nov;125(5):2360–7

Effects of fibroblast growth factors on deoxyribonucleic acid and collagen synthesis in rat parietal bone cells. McCarthy TL, et al. **Endocrinology** 1989 Oct;125(4):2118–26

Adenosine has divergent effects on deoxyribonucleic acid synthesis in FRTL5 cells: inhibition of thyrotropin-stimulated and potentiation of insulin-like growth factor-I-stimulated thymidine incorporation. Moses AC, et al. **Endocrinology** 1989 Nov;125(5):2758–65

Effect of hydrocortisone on the ability of thyrotropin to increase deoxyribonucleic acid synthesis and iodide uptake in FRTL-5 rat thyroid cells: opposite regulation of adenosine 3',5'-monophosphate signal action. Saji M, et al. **Endocrinology** 1990 Oct;127(4):1867–76

Thyrotropin potentiation of insulin-like growth factor-I dependent deoxribonucleic acid synthesis in FRTL-5 cells: mediation by an autocrine amplification factor(s). Takahashi S, et al. **Endocrinology** 1990 Feb;126(2):736–45

Effect of lithium on deoxyribonucleic acid synthesis and iodide uptake in porcine thyroid cells in culture. Tsuchiya Y, et al. **Endocrinology** 1990 Jan;126(1):460–5

Somatostatin inhibits deoxyribonucleic acid synthesis induced by both thyrotropin and insulin-like growth factor-I in FRTL5 cells. Tsuzaki S, et al. **Endocrinology** 1990 Jun; 126(6):3131–8

Effects of atrial natriuretic factor on cyclic nucleotides, bone resorption, collagen and deoxyribonucleic acid synthesis, and prostaglandin E2 production in fetal rat bone cultures. Vargas SJ, et al. **Endocrinology** 1989 Nov;125(5):2527–31

Quinoline: unscheduled DNA synthesis and mitogenesis data from the rat liver in vivo. Ashby J, et al. **Environ Mol Mutagen** 1989;14(4):221–8

Expression of guinea-pig liver transglutaminase cDNA in Escherichia coli. Amino-terminal N alpha-acetyl group is not essential for catalytic function of transglutaminase. Ikura K, et al. **Eur J Biochem** 1990 Feb 14;187(3):705–11

Secondary structure of 7SK and 7-2 small RNAs. Possible origin of some 7SK pseudogenes from cDNA formed through self-priming by 7SK RNA. Suh D, et al. **Eur J Biochem** 1989 Dec 8;186(1-2):221–6

Mitotic patterns and DNA synthesis in dinitrophenol-treated sea urchin eggs. Kojima MK, et al. **Eur J Cell Biol** 1990 Jun;52(1):129–34

Distribution of intracellular free calcium in quiescent BALB/c 3T3 cells stimulated by platelet-derived growth factor. Tucker RW, et al. **Eur J Cell Biol** 1990 Feb; 51(1):120–7

Specificity and timing of the Zn2+ requirement for DNA synthesis by 3T3 cells. Chesters JK, et al. **Exp Cell Res** 1989 Oct;184(2):499–508

An increase in the intracellular pH of fertilized eggs of Xenopus laevis is associated with inhibition of protein and DNA syntheses and followed by an arrest of embryonic development. Grandin N, et al. **Exp Cell Res** 1989 Dec; 185(2):436–52

DNA synthesis in isolated resting nuclei: evidence for protease-dependent nonreplicative nucleotide incorporation. Jensen TL, et al. **Exp Cell Res** 1990 Sep; 190(1):85–90

Epidermal growth factor stimulates DNA synthesis while inhibiting cell multiplication of A-431 carcinoma cells. Polet H. **Exp Cell Res** 1990 Feb;186(2):390–3

Nucleolar DNA synthesis in leukocytes cultured in vitro. Ribas-Mundó M. **Exp Cell Res** 1966 Jan;41(1):210–4

Difference in the frequency of sex chromatin positive cells in DNA-synthetizing and non-synthetizing human cells in tissue cultures. Therkelsen AJ, et al. **Exp Cell Res** 1966 Jan;41(1):215–7

DNA-synthesis regulation and correlation with inositol trisphosphate levels in cultured bovine retinal capillary pericytes. Li WY, et al. **Exp Eye Res** 1989 Oct;49(4):677–83

Plasmodium falciparum: properties of an alpha-like DNA polymerase, the key enzyme in DNA synthesis. Abu-Elheiga L, et al. **Exp Parasitol** 1990 Jul;71(1):21–6

Molecular cloning and sequence analysis of cDNA encoding rat adrenal cytochrome P-450(11)beta. Nonaka Y, et al. **FEBS Lett** 1989 Sep 11;255(1):21–6

Inhibition of epidermal growth factor-induced DNA synthesis by tyrosine kinase inhibitors. Umezawa K, et al. **FEBS Lett** 1990 Jan 29;260(2):198–200

Barbital sodium, a tumor promoter for kidney tubules, urinary bladder, and liver of the F344 rat, induces persistent increases in levels of DNA synthesis in renal tubules but not in urinary bladder epithelium or hepatocytes. Hagiwara A, et al. **Fundam Appl Toxicol** 1989 Aug;13(2):332–40

Circadian rhythms in the number of gastrin cells, DNA synthesizing cells and labelling index of gastrin cells in the antral mucosa of the rat. Fukuchi Y. **Gastroenterol Jpn** 1990 Feb;25(1):8–14

DNA synthesis is unaffected but subsequent cell division is delayed in tadpole hindlimb epidermis when thyroxine is given in the dark. Wright ML, et al. **Gen Comp Endocrinol** 1990 Jul;79(1):89–94

The structure of the chicken glutamine synthetase-encoding gene. Pu HF, et al. **Gene** 1989 Sep 1;81(1):169–75

Cloning of a full-length cDNA encoding bovine thymus poly(ADP-ribose) synthetase: evolutionarily conserved segments and their potential functions. Saito I, et al. **Gene** 1990 Jun 15;90(2):249–54

Cloning of PCR-amplified total cDNA: construction of a mouse oocyte cDNA library. Welsh J, et al. **Genet Anal** 1990 Feb;7(1):5–17

Cytotoxicity by tumor necrosis factor is linked with the cell cycle but does not require DNA synthesis. Coffman FD, et al. **Growth Factors** 1989;1(4):357–64

Functional expression of the human receptor for colony-stimulating factor 1 (CSF-1) in hamster fibroblasts: CSF-1 stimulates Na+/H+ exchange and DNA-synthesis in the absence of phosphoinositide breakdown. Hartmann T, et al. **Growth Factors** 1990;2(4):289–300

Receptor downregulation and DNA synthesis are modulated by EGF and TPA in cells expressing an EGFR/neu chimera. Lehtola L, et al. **Growth Factors** 1989;1(4):323–34

Immunocytochemical determination of ploidy class-dependent bromodeoxyuridine incorporation in rat liver parenchymal cells after partial hepatectomy. Frederiks WM, et al. **Histochemistry** 1990;93(6):627–30

Growth hormone elevates DNA polymerase-alpha activity related to DNA synthesis in ovaries of hypophysectomized immature rat. Usuki S, et al. **Horm Metab Res** 1989 Aug; 21(8):455–6

Effects of medium and substratum conditions on the rates of DNA synthesis in primary cultures of bile ductular epithelial cells. Mathis GA, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):113–8

Action of ornithine alpha ketoglutarate on DNA synthesis by human fibroblasts. Vaubourdolle M, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):187–92

Hormonal regulation of macromolecular synthesis in testes and accessory reproductive glands of Spodoptera litura during post-embryonic and adult development. Sridevi R, et al. **Indian J Exp Biol** 1989 Aug;27(8):699–703

Is the DNA synthesis of pancreatic islets influenced by the MHC and/or the genetic background? Dunger A, et al. **Int J Pancreatol** 1989 Dec;5(4):379–86

Liquid scintillation counting of 3H-thymidine incorporated into rat lens DNA. Söderberg PG, et al. **Int J Rad Appl Instrum** [A] 1990;41(1):1–4

Lack of correlation between radiosensitivity and inhibition of DNA synthesis in hybrids (A-T x HeLa). Komatsu K, et al. **Int J Radiat Biol** 1989 Dec;56(6):863–7

Deeper 'Go' phase in rat fibroblasts affects the lag time required for T antigen induced DNA synthesis, but not the lag time required for SV40 T antigen expression. Zaitsu H, et al. **Intervirology** 1989;30(5):294–9

Insulin and insulin-like growth factor-I stimulate DNA synthesis in bovine mammary tissue in vitro. Baumrucker CR, et al. **J Anim Sci** 1989 Dec;67(12):3503–14

Purification and properties of recombinant rat catalase produced in Escherichia coli. Furuta S, et al. **J Biochem (Tokyo)** 1990 May;107(5):708–13

Enzymatic activities of P-450(11 beta)s expressed by two cDNAs in COS-7 cells. Morohashi K, et al. **J Biochem (Tokyo)** 1990 Apr;107(4):635–40

Telomeres: structure and synthesis. Blackburn EH. **J Biol Chem** 1990 Apr 15;265(11):5919–21 (30 ref.)

Murine DNA polymerase alpha fills gaps to completion in a direct assay. Altered kinetics of de novo DNA synthesis at single nucleotide gaps. Davey SK, et al. **J Biol Chem** 1990 Mar 5;265(7):4098–104

Isolation, purification, and partial characterization of suppressin, a novel inhibitor of cell proliferation. LeBoeuf RD, et al. **J Biol Chem** 1990 Jan 5;265(1):158–65

Drosophila melanogaster strand transferase. A protein that forms heteroduplex DNA in the absence of both ATP and single-strand DNA binding protein. Lowenhaupt K, et al. **J Biol Chem** 1989 Dec 5;264(34):20568–75

Dissociation of thymidine incorporation and transferrin receptor expression from cell growth and c-myc accumulation in alpha-interferon-treated cells. Meadows LM, et al. **J Biol Response Mod** 1990 Apr;9(2):212–20

Effects of synthetic calcium phosphates on the 3H-thymidine incorporation and alkaline phosphatase activity of human fibroblasts in culture. Orly I, et al. **J Biomed Mater Res** 1989 Dec;23(12):1433–40

Transforming growth factors-beta 1 and beta 2 are mitogens for rat Schwann cells. Ridley AJ, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3419–24

Multiple sequential periods of DNA synthesis and quiescence in primary hepatocyte cultures maintained on the DMSO-EGF on/off protocol. Chan K, et al. **J Cell Physiol** 1989 Dec;141(3):584–90

Dual effects of glucagon and cyclic AMP on DNA synthesis in cultured rat hepatocytes: stimulatory regulation in early G1 and inhibition shortly before the S phase entry. Thoresen GH, et al. **J Cell Physiol** 1990 Sep;144(3):523–30

DNA synthesis inhibition and reduced functional differentiation of midpregnant mouse mammary epithelia on collagen gels. Trumpbour V, et al. **J Cell Physiol** 1990 May;143(2):303–9

Induction of DNA synthesis by cholera toxin in the temperature-sensitive cell-cycle mutants of rat 3Y1 fibroblasts at a restrictive temperature. Kabemura M, et al. **J Cell Sci** 1989 Sep;94 (Pt 1):33–42

Deoxyribonucleic acid cytophometry on rat ovarian follicles kept in organ culture: the effects of gonadotropins and plasma from normal, hypergonadotropic menopausal, and hypogonadotropic women. van Weissenbruch MM, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):238–45

Effects of platelet-derived growth factor and other polypeptide mitogens on DNA synthesis and growth of cultured rat liver fat-storing cells. Pinzani M, et al. **J Clin Invest** 1989 Dec;84(6):1786–93

Coordinate regulation of transforming growth factor beta gene expression and cell proliferation in hamster lungs undergoing bleomycin-induced pulmonary fibrosis. Raghow B, et al. **J Clin Invest** 1989 Dec;84(6):1836–42

Stimulation of proteoglycan and DNA syntheses in chondrocytes by centrifugation. Inoue H, et al. **J Dent Res** 1990 Sep;69(9):1560–3

Differences in the biochemical activity in hairless mouse skin and other organs after systemic and topical methotrexate treatment. Yoshino K, et al. **J Dermatol** 1989 Dec; 16(6):475–9

Stimulation of DNA synthesis in cultures of ovine mammary epithelial cells by insulin and insulin-like growth factors. Winder SJ, et al. **J Endocrinol** 1989 Nov;123(2):319–26

DNA synthesis in excised tobacco leaves after bromodeoxyuridine incorporation: immunohistochemical detection in semi-thin spurr sections. Stroobants C, et al. **J Histochem Cytochem** 1990 May;38(5):641–7

Synthesis of Y chromosome-specific labeled DNA probes by in vitro DNA amplification. Weier HU, et al. **J Histochem Cytochem** 1990 Mar;38(3):421–6

A specific defect of prosolin phosphorylation in T cell leukemic lymphoblasts is associated with impaired down-regulation of DNA synthesis. Cooper HL, et al. **J Immunol** 1990 Aug 15;145(4):1205–13

Formation of DNA adducts in the skin of psoriasis patients, in human skin in organ culture, and in mouse skin and lung following topical application of coal-tar and juniper tar. Schoket B, et al. **J Invest Dermatol** 1990 Feb; 94(2):241–6

Utilization of labeled thymidine in DNA synthesis: studies for PET. Shields AF, et al. **J Nucl Med** 1990 Mar; 31(3):337–42

Entrainment of the rhythm in thymidine incorporation by cultured chick pineal glands. Wainwright SD, et al. **J Pineal Res** 1990;8(2):159–68

Differential effects of ovarian steroids and triphenylethylene compounds on macromolecular uptake and thymidine incorporation in the mouse uterus. Huet-Hudson YM, et al. **J Steroid Biochem** 1990 Jan;35(1):23–7

Circulating factors that modify lung cell DNA synthesis following exposure to inhaled oxidants. II. Effect of serum and lavage on lung pneumocytes following exposure of adult rats to 1 ppm ozone. Tanswell AK, et al. **J Toxicol Environ Health** 1990;29(1):131–44

Inductions of ornithine decarboxylase and replicative DNA synthesis but not DNA single strand scission or unscheduled DNA synthesis in the pyloric mucosa of rat stomach by catechol. Furihata C, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1052–7

Effect of adriamycin on DNA, RNA and protein biosyntheses in mouse tissues, in connection with its cardiotoxicity. Sazuka Y, et al. **Jpn J Cancer Res** 1989 Oct; 80(10):1000–5

Hyperplasia precedes increased glomerular filtration rate in rat remnant kidney. Miskell CA, et al. **Kidney Int** 1990 Feb;37(2):758–66

Changes in gene expression after temporary renal ischemia. Safirstein R, et al. **Kidney Int** 1990 Jun;37(6):1515–21

Hepatotrophic growth factor in blood of mice treated with carbon tetrachloride. Gohda E, et al. **Life Sci** 1990; 46(24):1801–8

Effects of 1,25-dihydroxyvitamin D3 on the syntheses of DNA and glycosaminoglycans by rat aortic smooth muscle cells in vitro. Koh E, et al. **Life Sci** 1990;46(21):1545–51

Exonuclease activity that degrades histone mRNA is stable when DNA or protein synthesis is inhibited. Peltz SW, et al. **Mol Biol Med** 1989 Jun;6(3):227–38

Human transforming growth factor-beta 3: recombinant expression, purification, and biological activities in comparison with transforming growth factors-beta 1 and -beta 2. Graycar JL, et al. **Mol Endocrinol** 1989 Dec; 3(12):1977–86

Stable expression of full-length and truncated bovine peptidylglycine alpha-amidating monooxygenase complementary DNAs in cultured cells. Perkins SN, et al. **Mol Endocrinol** 1990 Jan;4(1):132–9

Alpha 1-adrenergic stimulation and beta 2-adrenergic inhibition of DNA synthesis in vascular smooth muscle

cells. Nakaki T, et al. **Mol Pharmacol** 1990 Jan;37(1):30–6

Effects of ultrasound on DNA and RNA synthesis in preimplantation mouse embryos. Heyner S, et al. **Mol Reprod Dev** 1990 Mar;25(3):209–14

Activity profiles of enzymes that control the uracil incorporation into DNA during neuronal development. Focher F, et al. **Mutat Res** 1990 Mar;237(2):65–73

Mutagenicity evaluation of HC Blue No. 1 and HC Blue No. 2, II. Effect on the in vitro induction of unscheduled DNA synthesis in rat, mouse, rabbit, hamster, and monkey primary hepatocytes. Hill LE, et al. **Mutat Res** 1990 Jun; 241(2):145–50

Use of in vivo and in vitro assays for the characterization of mammalian excision repair and isolation of repair proteins. Hoeijmakers JH, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):223–38 (55 ref.)

Unscheduled DNA synthesis in rat pleural mesothelial cells treated with mineral fibres. Renier A, et al. **Mutat Res** 1990 Aug;241(4):361–7

Effect of amantadine on prolactin secretion, pituitary DNA synthesis and 3H–spiperone binding in male estrogen–treated rats. Krawczyk Z, et al. **Neuroendocrinology** 1990 Jun;51(6):632–6

Stimulation by hydrogen peroxide of DNA synthesis, competence family gene expression and phosphorylation of a specific protein in quiescent Balb/3T3 cells. Shibanuma M, et al. **Oncogene** 1990 Jul;5(7):1025–32

Iron is not required in the lactoferrin stimulation of thymidine incorporation into the DNA of rat crypt enterocytes. Nichols BL, et al. **Pediatr Res** 1990 May;27(5):525–8

Isolated myocardiocytes and DNA synthesis: a possible experimental model to predict the in vivo cardiotoxicity. Dusonchet L, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:25–6

Effect of o,p'-DDD on the in vivo incorporation of 3H–thymidine into DNA: evidence for induced cell proliferation in the mouse lung. Lund BO, et al. **Pharmacol Toxicol** 1990 Mar;66(3):179–84

Stimulation of DNA synthesis in human epidermis by UVB radiation and its inhibition by difluoromethylornithine. Eshbaugh WG Jr, et al. **Plast Reconstr Surg** 1990 Apr; 85(4):593–6

Free electron laser irradiation at 200 microns affects DNA synthesis in living cells. Berns MW, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2810–2

Differential effects of growth factors on [3H]thymidine incorporation and [125I]iodine uptake in FRTL–5 rat thyroid cells. Pang XP, et al. **Proc Soc Exp Biol Med** 1990 Jul;194(3):240–4

Genetic differences in follicular DNA synthesis between two strains of hamsters. Roy SK, et al. **Proc Soc Exp Biol Med** 1990 Jun;194(2):136–43

Nerve growth factor–induced increase in [3H]thymidine incorporation into pancreas of young rats and its partial blockade by propranolol or partial sialoadenectomy. Schneyer CA, et al. **Proc Soc Exp Biol Med** 1990 Jul; 194(3):204–8

Bovine placental lactogen stimulates DNA synthesis of bovine mammary tissue maintained in athymic nude mice. Vega JR, et al. **Proc Soc Exp Biol Med** 1989 Nov; 192(2):135–9

Increased DNA synthesis in the heart during acute allylamine cardiotoxicity. Boor PJ, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr;68(1):3–11

Modifying influence of fasting on liver hyperplasia induced by lead nitrate. Dessì S, et al. **Res Commun Chem Pathol Pharmacol** 1990 Apr; 68(1):103–16

Simulated weightlessness and bone metabolism: decreases of protein and DNA syntheses in the femoral diaphysis of rats. Yamaguchi M, et al. **Res Exp Med (Berl)** 1989; 189(5):331–7

Short– and long–term effects of secretin and a cholecystokinin–like peptide on pancreatic growth and synthesis of RNA and polyamines. Haarstad H, et al. **Scand J Gastroenterol** 1989 Aug;24(6):721–32

Non–steroidal anti–inflammatory drugs and gastric DNA synthesis. Myszor M, et al. **Scand J Gastroenterol** 1990 Mar; 25(3):197–202

Inhibition of serum– and ras–stimulated DNA synthesis by antibodies to phospholipase C. Smith MR, et al. **Science** 1990 Mar 2;247(4946):1074–7

Autoradiographic study of the effects of psoralen and ultraviolet light on DNA, RNA and protein synthesis in cultured keratinocytes and psoriatic skin. Bertaux B, et al. **Skin Pharmacol** 1988;1(4):250–8

Hexadecane–induced skin hyperplasia in the hairless rat: time course of histological and biochemical events related to the synthesis of polyamines and DNA. Bouclier M, et al. **Skin Pharmacol** 1988;1(1):24–9

Nonimmunosuppressive ciclosporin H inhibits the growth and DNA synthesis of cultured normal human epidermal keratinocytes. Ramirez–Bosca A, et al. **Skin Pharmacol** 1989;2(3):175–9

Analysis of DNA synthesis in cell cultures of the adult newt cardiac myocyte. Tate JM, et al. **Tissue Cell** 1989; 21(3):335–42

Effect of 3,7–bis–(4–trifluoromethylphenyl)–1,5,3,7–dioxadiazocane on pyrimidine and DNA synthesis in rat organs. Seifert J, et al. **Toxicology** 1990 Jun;62(3):297–310

Effect of the peroxisome proliferator ciprofibrate on hepatic DNA synthesis and hepatic composition following partial hepatectomy in rats. Srinivasan SR, et al. **Toxicology** 1990 Jun;62(3):321–32

Circadian variations in the DNA synthesis of the rat corneal epithelium. A study using double labelling with tritiated thymidine. Håskjold E, et al. **Virchows Arch [B]** 1990; 58(3):229–34

[Effect of cigarette smoke condensate on unscheduled DNA synthesis (UDS) in human lung fibroblast cells] Gu M. **Chung Hua Chung Liu Tsa Chih** 1989 Nov;11(6):422–4 (Eng. Abstr.) (Chi)

[The effect of prostaglandin E2 (PGE2) on growth, proliferation, morphology and protein synthesis of aortic smooth muscle cells (SMC) in vitro] Lei ZZ, et al. **Chung–hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):188–90 (Eng. Abstr.) (Chi)

[A study of protein engineering for human cardionatrin. I. Synthesis, cloning and expression of a gene analog of human atrial natriuretic polypeptide in E. coli] Ren H. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Feb; 12(1):1–8 (Eng. Abstr.) (Chi)

[Enhancement of endonuclease activity and repair DNA synthesis by polysaccharide of Spirulina platensis] Pang QS, et al. **I Chuan Hsueh Pao** 1988;15(5):374–81 (Eng. Abstr.) (Chi)

[Vaccines, cells and nucleic acids] Zuckerman AJ, et al. **Bull World Health Organ** 1990;68(3):293–5 (Fre)

[Effect of lithium on iodide uptake and DNA synthesis in porcine thyroid cells in culture] Tsuchiya Y. **Hokkaido Igaku Zasshi** 1990 Mar;65(2):161–9 (Eng. Abstr.) (Jpn)

[Beneficial effects of glucagon–insulin infusion on hepatic protein synthesis and DNA synthesis in partial hepatic ischemia] Kurihara M, et al. **Nippon Geka Gakkai Zasshi** 1989 Jul;90(7):1019–25 (Eng. Abstr.) (Jpn)

[Temperature influence on human testicular function—optimal temperature for testicular macromolecular synthesis] Nakamura M, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Sep;80(9):1362–6 (Eng. Abstr.) (Jpn)

[DNA synthesis by growth factors in primary cultures of human trophoblast cells] Adachi S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep;41(9):1487–8 (Jpn)

[Functional activity of blood cells in newborn infants] Sukhikh GT, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):40–3 (Rus)

[Inhibition of synthesis of nucleic acids, proteins and respiration in isolated thymocytes by anthracyclines] Gorskaia IA, et al. **Antibiot Khimioter** 1989 Aug; 34(8):589–93 (Eng. Abstr.) (Rus)

[Effects of daunorubicin and its nitroxyl analog on the synthesis of nucleic acids] Rogova OM, et al. **Antibiot Khimioter** 1990 May;35(5):27–30 (Eng. Abstr.) (Rus)

[DNA synthesis in the foam cells of the vascular wall in experimental atherosclerosis in rabbits] Babushkina TG, et al. **Arkh Patol** 1990;52(1):47–53 (Eng. Abstr.) (Rus)

[Change in activity of enzymes for purine metabolism and RNA and DNA biosynthesis in macrophages, reflecting impairment of their functions in neoplastic growth] Khramtsova SN, et al. **Biokhimiia** 1989 Oct;54(10):1673–80 (Eng. Abstr.) (Rus)

[The effect of alkylresorcinol on the respiration and synthesis of nucleic acids and proteins in isolated thymocytes] Komolova GS, et al. **Biokhimiia** 1989 Nov;54(11):1847–51 (Eng. Abstr.) (Rus)

[The short–term and long–lasting changes in DNA and RNA synthesis in the cerebral cortex cells of animals subjected to hypoxia and nerve tissue transplantation] Vitvitskiĭ VN, et al. **Biol Nauki** 1990;(3):26–36 (Eng. Abstr.) (Rus)

[Comparative inhibitory analysis of DNA biosynthesis catalyzed by retrovirus reverse transcriptase] Kileso TIu, et al. **Bioorg Khim** 1990 Apr;16(4):531–6 (Eng. Abstr.) (Rus)

[The regulation of DNA synthesis by fibronectin and its proteolytic products in the skin fibroblasts of healthy donors and patients with systemic scleroderma and rheumatoid arthritis] Abakumova OIu, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):678–81 (Eng. Abstr.) (Rus)

[Effects of opioid receptor ligands on DNA synthesis and histamine contents in the gastric mucosa and blood of white rats] Aleksandrovich AG, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):209–11 (Eng. Abstr.) (Rus)

[Effects of essentiale forte on biosynthesis of nucleic acids and several hemodynamic parameters of the damaged myocardium in rabbits] Karagezian KG, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):548–50 (Eng. Abstr.) (Rus)

[Topological features of DNA synthesis in the left ventricular wall during the repair of the heart after myocardial infarction] Sokrut VN, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):44–6 (Eng. Abstr.) (Rus)

[Use of a chain reaction method of DNA synthesis for analyzing the frequency of restriction polymorphism of the CS–7 DNA locus in the population and in families of patients with mucoviscidosis] Shvarts EI, et al. **Dokl Akad Nauk SSSR** 1989;307(2):467–9 (Rus)

[Polysaccharide—a stimulant of DNA reparative synthesis] Frolov AF, et al. **Mikrobiol Zh** 1989 Jul–Aug;51(4):98–9 (Eng. Abstr.) (Rus)

[Conformation limited nucleoside–5'–phosphates as termination substrates for DNA–polymerases] Chidzhavadze ZG, et al. **Mol Biol (Mosk)** 1989 Nov–Dec; 23(6):1732–42 (Eng. Abstr.) (Rus)

[The first cycle of DNA replication in parthenogenetic mouse embryos] Severova EL, et al. **Ontogenez** 1989 Sep–Oct; 20(5):516–24 (Eng. Abstr.) (Rus)

[DNA synthesis in heart cells in its compensatory hyperfunction] Iavich MP, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):39–42 (Eng. Abstr.) (Rus)

[DNA synthesis and content in the macrophage nuclei of normal mice, during carcinogenesis and during the administration of retinoids to the animals] Karalova EM, et al. **Tsitologiia** 1990;32(1):47–53 (Eng. Abstr.) (Rus)

[The effect amniocen preparation on nucleic acid metabolism in rat liver cells] Bozhkov AI, et al. **Vopr Med Khim** 1990 Mar–Apr;36(2):39–41 (Eng. Abstr.) (Rus)

[Synthesis of nucleic acids and dynamics of morphological indices of the granulation tissue of skin wounds in rats treated with 4–methyluracil] Silaeva SA, et al. **Vopr Med Khim** 1990 Jan–Feb;36(1):82–4 (Eng. Abstr.) (Rus)

[Nifurtimox and benznidazole inhibit DNA and protein synthesis in rat hepatocytes (letter)] Goijman SG, et al. **Medicina (B Aires)** 1989;48(6):718–9 (Spa)

BLOOD

Plasma DNA in patients undergoing hemodialysis or hemofiltration: cytolysis in artificial kidney is responsible for the release of DNA in circulation. Fournié GJ, et al. **Am J Nephrol** 1989;9(5):384–91

Evaluation of platinum–DNA adduct levels relative to known prognostic variables in a cohort of ovarian cancer patients. Reed E, et al. **Cancer Res** 1990 Apr 15; 50(8):2256–60

Plasma DNA. A simple, rapid test for aiding the diagnosis of pulmonary embolism. Vargo JS, et al. **Chest** 1990 Jan; 97(1):63–8

Ratio of fetal to maternal DNA is less than 1 in 5000 at different gestational ages in maternal blood. Gänshirt–Ahlert D, et al. **Clin Genet** 1990 Jul;38(1):38–43

Estimation of nuclear DNA content by flow cytometry in fishes of the genus Xiphophorus. Tiersch TR, et al. **Comp Biochem Physiol [B]** 1989;94(3):465–8

Fixation–associated quantitative variations of DNA fluorescence observed in flow cytometric analysis of hemopoietic cells from adult diploid frogs. Holtfreter HB, et al. **Cytometry** 1990;11(6):676–85

Interpretation of DNA profiles using a computerised database. Gill P, et al. **Electrophoresis** 1990 May; 11(5):444–8

Characterization of the human cyclophilin gene and of related processed pseudogenes. Haendler B, et al. **Eur J Biochem** 1990 Jul 5;190(3):477–82

Accelerated atherogenesis occurs following platelet destruction and increases in megakaryocyte size and DNA content. Kristensen SD, et al. **Eur J Clin Invest** 1990 Jun; 20(3):239–47

Effect of storage time and temperature on DNA extracted from whole blood samples. Towne B, et al. **Hum Biol** 1990 Apr;62(2):301–6

32P–postlabelling analysis of DNA adducts in monocytes of smokers and passive smokers. Holz O, et al. **Int Arch Occup Environ Health** 1990;62(4):299–303

Endogenous circulating DNA in systemic lupus erythematosus. Occurrence as multimeric complexes bound to histone. Rumore PM, et al. **J Clin Invest** 1990 Jul; 86(1):69–74

Hae III—a suitable restriction endonucleasc for restriction fragment length polymorphism analysis of biological evidence samples. Budowle B, et al. **J Forensic Sci** 1990 May;35(3):530–6

Evaluation of deoxyribonucleic acid (DNA) isolated from human bloodstains exposed to ultraviolet light, heat, humidity, and soil contamination. McNally L, et al. **J Forensic Sci** 1989 Sep;34(5):1059–69

The effects of environment and substrata on deoxyribonucleic acid (DNA): the use of casework samples from New York City. McNally L, et al. **J Forensic Sci** 1989 Sep; 34(5):1070–7

Quantitative analyses of C3b capture and immune adherence of IgM antibody/dsDNA immune complexes. Taylor RP, et al. **J Immunol** 1989 Dec 1;143(11):3626–31

Chromatin superstructure–dependent crosslinking with DNA of the histone H5 residues Thr1, His25 and His62. Mirzabekov AD, et al. **J Mol Biol** 1990 Jan 20; 211(2):479–91

Detection of fetal DNA in maternal blood by PCR [letter; comment] Holzgreve W, et al. **Lancet** 1990 May 19; 335(8699):1220–1 Comment on: Lancet 1989 Dec 9;2(8676):1363–5.

Rapid detection and sequencing of specific in vitro amplified DNA sequences using solid phase methods. Wahlberg J, et al. **Mol Cell Probes** 1990 Aug;4(4):285–97

A simple and efficient non–organic procedure for the isolation of genomic DNA from blood. Grimberg J, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8390

Isolation of fetal DNA from nucleated erythrocytes in maternal blood. Bianchi DW, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3279–83

Quantitation of blood plasma DNA as an index of in vivo

cytotoxicity. Bret L, et al. **Toxicology** 1990 Apr 30; 61(3):283–92

CHEMICAL SYNTHESIS

A general method of optimizing automated DNA synthesis to decrease chemical consumption to less than half. Yeung AT, et al. **Anal Biochem** 1990 May 15;187(1):66–75

A strategy for the construction of double-stranded DNA microcircles with circumferences less than 50 bp. Wolters M, et al. **Anticancer Drug Des** 1990 Feb;5(1):111–20

Hydrogen phosphonate chemistry can be compatible with the large bottle update on the applied biosystems 380B DNA synthesizer. Bennett CD. **Biotechniques** 1990 Jun; 8(6):618, 620

An improvement and simplification in the Gubler–Hoffman method of cDNA synthesis. Polites HG. **Biotechniques** 1988 Sep;6(8):720–1, 723, 725

alpha–DNA X: alpha and beta tetrathymidilates covalently linked to oxazolopyridocarbazolium (OPC): comparative stabilization of oligo beta-[dT]:oligo beta-[dA] and oligo alpha-[dT]:oligo beta-[dA] duplexes by the intercalating agent. Bazile D, et al. **Nucleic Acids Res** 1989 Oct 11; 17(19):7749–59

Artificial nucleosome positioning sequences. Shrader TE, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7418–22

[Separation and ligation of synthetic DNA fragments] Zhang JW. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Jun;11(3):200–4 (Eng. Abstr.) **(Chi)**

CLASSIFICATION

[HLA–DNA typing] Inoko H. **Nippon Rinsho** 1990 Feb;48 Suppl:778–85 **(Jpn)**

DIAGNOSTIC USE

Molecular analysis of the Rett syndrome using cDNA synapsin I as a probe. Ferlini A, et al. **Brain Dev** 1990; 12(1):136–9

Rapid detection of herpes simplex virus DNA by in situ hybridization with photobiotin–labelled double-stranded DNA probes. Chantratita W, et al. **Mol Cell Probes** 1989 Dec;3(4):363–73

Probes for rare mRNAs reveal distributed cell subsets in canary brain. Clayton DF, et al. **Neuron** 1988 May; 1(3):249–61

DRUG EFFECTS

Quantity of DNA in the organs of adult Swiss male mice after AET and MEA treatment. Manowska J, et al. **Acta Physiol Hung** 1989;74(3–4):315–9

Mutational spectrometry in animal toxicity testing. Thilly WG. **Annu Rev Pharmacol Toxicol** 1990;30:369–85 (52 ref.)

Drug–DNA interactions. An international conference. 11–15 September 1989, Cambridge, England. Proceedings. **Anticancer Drug Des** 1990 Feb;5(1):1–157

Anti-tumour imidazotetrazines. Part XXI. Mitozolomide and temozolomide: probes for the major groove of DNA. Clark AS, et al. **Anticancer Drug Des** 1990 Feb;5(1):63–8

Footprinting studies of sequence recognition by mithramycin. Cons BM, et al. **Anticancer Drug Des** 1990 Feb;5(1):93–7

Design of molecules which specifically cleave abasic sites in DNA. Constant JF, et al. **Anticancer Drug Des** 1990 Feb;5(1):59–62

Studies on DNA damage and induction of SOS repair by novel multifunctional bioreducible compounds. I. A metronidazole adduct of dirhodium (II) tetraacetate. Dale LD, et al. **Anticancer Drug Des** 1989 Dec;4(4):295–302

Acid–base properties of ellipticine bound to DNA, micelles and liposomes. Dodin G, et al. **Anticancer Drug Des** 1990 Feb;5(1):129–34

DNA sequence recognition by bleomycin. Fox KR. **Anticancer Drug Des** 1990 Feb;5(1):99–104

Interaction of tetra–azaphenanthrene ruthenium complexes with DNA and oligonucleotides. A photophysical and photochemical investigation. Kelly JM, et al. **Anticancer Drug Des** 1990 Feb;5(1):69–75

Recognition by the DNA repair system of DNA structural alterations induced by reversible drug–DNA interactions. Lambert B, et al. **Anticancer Drug Des** 1990 Feb;5(1):43–53

Free radical production and DNA cleavage by copper chelating peptide–anthraquinones. Morier–Teissier E, et al. **Anticancer Drug Des** 1990 Aug;5(3):291–305

Uranyl photoprobing of conformational changes in DNA induced by drug binding. Nielsen PE, et al. **Anticancer Drug Des** 1990 Feb;5(1):105–10

New insight into drug–DNA interactions at individual drug binding sites probed by RNA polymerase during active transcription of the DNA. Phillips DR, et al. **Anticancer Drug Des** 1990 Feb;5(1):21–9

Kinetic and thermodynamic studies on drug–DNA interactions in the ellipticine series. Schwaller MA, et al. **Anticancer Drug Des** 1990 Feb;5(1):77–87

Structural analysis of replicating DNA following exposure to cytotoxic drugs: implications for current models of DNA synthesis in mammalian cells. Stewart BW, et al. **Anticancer Drug Des** 1990 Feb;5(1):141–7

The effect of estramustine on microtubuli is different from the direct action via oxygen radicals on DNA and cell membrane. Henriksson R, et al. **Anticancer Res** 1990 Mar–Apr;10(2A):303–9

pHi and DNA content modifications after ADR treatment in 3T3 fibroblasts. A microfluorimetric approach. Lahmy S, et al. **Anticancer Res** 1989 Jul–Aug;9(4):929–35

Induction by cyproterone acetate of DNA synthesis and mitosis in primary cultures of adult rat hepatocytes in serum free medium. Parzefall W, et al. **Arch Toxicol** 1989; 63(6):456–61

Enhanced binding of lupus sera to the polyamine–induced left–handed Z–DNA form of polynucleotides. Thomas TJ, et al. **Arthritis Rheum** 1990 Mar;33(3):356–65

Enhancement of bleomycin–induced DNA damage by exposing isolated DNA to high concentrations of the calcium antagonist verapamil. Weber J, et al. **Arzneimittelforschung** 1989 Dec;39(12):1550–4

Inhibition of tobacco–specific nitrosamine 4–(methyl–nitrosamino)–1–(3–pyridyl)–1–butanone (NNK)–induced lung tumors and DNA methylation in F344 rats and A/J mice by phenethyl isothiocyanate. Morse MA, et al. **Basic Life Sci** 1990;52:345–50

Phenotypic reversion of cisplatin resistance in human cells accompanies reduced host cell reactivation of damaged plasmid. Chao CC, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):851–9

Vasoactive intestinal contractor, a novel peptide, shares a common receptor with endothelin–1 and stimulates Ca2+ mobilization and DNA synthesis in Swiss 3T3 cells. Fabregat I, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):161–7

Apparent sequence preference in cleavage of linear B–DNA by the Cu(II):thiol system. John DC, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1235–42

Light–induced DNA cleavage by esperamicin and neocarzinostatin. Uesawa Y, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):903–11

Niacin prevents DNA strand breakage by adenosine deaminase inhibitors. Weitberg AB, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):514–9

Induction of DNA damage by dimethylarsine, a metabolite of inorganic arsenics, is for the major part likely due to its peroxyl radical. Yamanaka K, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):58–64

Mechanism of DNA strand nicking at apurinic/apyrimidinic sites by Escherichia coli [formamidopyrimidine]DNA glycosylase. Bailly V, et al. **Biochem J** 1989 Sep 1; 262(2):581–9

Footprinting studies on the effect of echinomycin on the structure of a bent DNA fragment. Fox KR, et al. **Biochem J** 1990 Jul 1;269(1):217–21

Base sequence specificity of three 2–chloroethylnitrosoureas. Briscoe WT, et al. **Biochem Pharmacol** 1990 Sep 15; 40(6):1201–9

Investigations on the relationship between DNA ethenobase adduct levels in several organs of vinyl chloride–exposed rats and cancer susceptibility. Ciroussel F, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1109–13

A comparison of the techniques of alkaline filter elution and alkaline sucrose sedimentation used to assess DNA damage induced by 2–nitroimidazoles. Crump PW, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):621–7

Site–specific DNA damage induced by sulfite in the presence of cobalt(II) ion. Role of sulfate radical. Kawanishi S, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3491–6

Mechanism of action of the nitrosoureas—IV. Synthesis of the 2–haloethylnitrosourea–induced DNA cross–link 1–(3–cytosinyl),2–(1–guanyl)ethane. MacFarland JG, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):33–6

Binding of a Hoechst dye to d(CGCGATATCGCG) and its influence on the conformation of the DNA fragment. Carrondo MA, et al. **Biochemistry** 1989 Sep 19; 28(19):7849–59

Mercury–induced DNA polymorphism: probing the conformation of Hg(II)–DNA via staphylococcal nuclease digestion and circular dichroism measurements. Gruenwedel DW, et al. **Biochemistry** 1990 Feb 27; 29(8):2110–6

Stimulation of the topoisomerase II induced DNA cleavage sites in the c–myc protooncogene by antitumor drugs is associated with gene expression. Riou JF, et al. **Biochemistry** 1989 Nov 14;28(23):9104–10

Conformation of DNA modified at a d(GG) or a d(AG) site by the antitumor drug cis–diamminedichloroplatinum(II). Schwartz A, et al. **Biochemistry** 1989 Oct 3;28(20):7975–9

Substrate overlap and functional competition between human nucleotide excision repair and Escherichia coli photolyase and (a)BC excision nuclease. Sibghat–Ullah, et al. **Biochemistry** 1990 Jun 19;29(24):5711–8

Hydrogen peroxide insult in cultured mammalian cells: relationships between DNA single–strand breakage, poly(ADP–ribose) metabolism and cell killing. Cantoni O, et al. **Biochim Biophys Acta** 1989 Oct 30;1014(1):1–7

Bleomycin–treated DNA is specifically cleaved only by endonuclease IV in E. coli. Hagensee ME, et al. **Biochim Biophys Acta** 1990 Jan 30;1048(1):19–23

Repair of acetyl–aminofluorene modified pBR322 DNA in Xenopus laevis oocytes and eggs; effect of diadenosine tetraphosphate. Orfanoudakis G, et al. **Biochimie** 1990 Apr; 72(4):271–8

In vivo footprinting: studies of protein—DNA interactions in gene regulation. Nielsen PE. **Bioessays** 1989 Nov; 11(5):152–5 (48 ref.)

Bending studies of DNA site–specifically modified by cisplatin, trans–diamminedichloroplatinum(II) and cis–[Pt(NH3)2(N3–cytosine)Cl]+. Bellon SF, et al. **Biophys Chem** 1990 Apr;35(2–3):179–88

Biophysical studies of the modification of DNA by antitumour platinum coordination complexes. Brabec V, et al. **Biophys Chem** 1990 Apr;35(2–3):129–41 (102 ref.)

How does cisplatin alter DNA structure? A molecular mechanics study on double–stranded oligonucleotides. Kozelka J, et al. **Biophys Chem** 1990 Apr;35(2–3):165–78

DNA bending induced by covalently bound drugs. Gel electrophoresis and chemical probe studies. Leng M. **Biophys Chem** 1990 Apr;35(2–3):155–63 (87 ref.)

Effect of platinum(II) chemotherapeutic agents on properties of DNA liquid crystals. Yevdokimov YuM, et al. **Biophys Chem** 1990 Apr;35(2–3):143–53

Effects of chloroquine on the torsional dynamics and rigidities of linear and supercoiled DNAs at low ionic strength. Wu P, et al. **Biopolymers** 1989 Oct; 28(10):1695–703

Detection of DNA damage "in vitro" by a topoisomerase II inhibitor with a low–shear viscometer. Marchesini F, et al. **Boll Soc Ital Biol Sper** 1988 Oct;64(10):953–60

DNA damage induced by some bile acids, evaluated with alkaline elution technique. Peluso M, et al. **Boll Soc Ital Biol Sper** 1989 Jul;65(7):671–7

Comparative effects of a novel vitamin D analogue MC–903 and 1,25–dihydroxyvitamin D3 on alkaline phosphatase activity, osteocalcin and DNA synthesis by human osteoblastic cells in culture. Marie PJ, et al. **Bone** 1990; 11(3):171–9

Lack of DNA alterations induced by orotic acid in rat liver as evaluated with two DNA unwinding methods. Balbi C, et al. **Cancer Biochem Biophys** 1990 Apr;11(2):135–44

Metabolism of and DNA adduct formation by benzo[alpha]pyrene in human skin epithelial cells in vitro pretreated with cytochrome P450 modulators. Lehman TA, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):345–52

Comparative studies on the action of 7–N–[2–[[2–(gamma–L–glutamylamino) ethyl]dithio]ethyl]mitomycin C and of mitomycin C on cultured HL–60 cells and isolated phage and plasmid DNA. Ishioka C, et al. **Cancer Chemother Pharmacol** 1990; 26(2):117–21

The influence of Na+,K(+)-pump blockade on doxorubicin–mediated cytotoxicity and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Cancer Chemother Pharmacol** 1990;26(3):163–7

Quantitative DNA alterations during 5–azacytidine–induced differential modulation of benzo(a)pyrene carcinogenesis in hamster bronchi. Hammond WG, et al. **Cancer Commun** 1990;2(4):135–44

Modification of DNA by bile acids: a possible factor in the etiology of colon cancer. Cheah PY, et al. **Cancer Lett** 1990 Mar;49(3):207–10

Is 1,4–dioxane a genotoxic carcinogen? Kitchin KT, et al. **Cancer Lett** 1990 Aug;53(1):67–71

The effect of prolonged incubations and heat denaturation on melphalan–induced DNA cross–links as measured by the ethidium bromide fluorescence assay. Panasci L, et al. **Cancer Lett** 1990 Apr 20;50(2):129–32

Alterations of some macromolecular and biochemical properties of calf thymus DNA caused by "dual antagonists" and nitrogen mustard. Chmielewicz ZF, et al. **Cancer Res** 1967 Jul;27(7):1248–57

Induction of differentiation and DNA strand breakage in human HL–60 and K–562 leukemia cells by genistein. Constantinou A, et al. **Cancer Res** 1990 May 1; 50(9):2618–24

DNA synthesis by L929 cells following doxorubicin exposure. Lanks KW, et al. **Cancer Res** 1990 Aug 1; 50(15):4776–8

Effect of the metal chelating agent o–phenanthroline on the DNA and chromosome damage induced by bleomycin in Chinese hamster ovary cells. Larramendy ML, et al. **Cancer Res** 1989 Dec 1;49(23):6583–6

Metabolism and DNA single strand breaks induced by 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone and its analogues in primary culture of rat hepatocytes. Liu LL, et al. **Cancer Res** 1990 Mar 15;50(6):1810–6

Molecular analysis by electron microscopy of the removal of psoralen–photoinduced DNA cross–links in normal and Fanconi's anemia fibroblasts. Rousset S, et al. **Cancer Res** 1990 Apr 15;50(8):2443–8

DNA base changes in benzo[a]pyrene diol epoxide–induced dihydrofolate reductase mutants of Chinese hamster ovary cells. Carothers AM, et al. **Carcinogenesis** 1990 Jan; 11(1):189–92

Mutagenicity of N2 guanylarylation is SOS functions dependent and reminiscent of the high mutagenic property of 4NQO. Galiègue–Zouitina S, et al. **Carcinogenesis** 1989 Oct;10(10):1961–6

Sex and organ differences in oxidative DNA and RNA damage due to treatment of Sprague–Dawley rats with acetoxime or 2–nitropropane. Guo N, et al. **Carcinogenesis** 1990 Sep;11(9):1659–62

Radioresistant derivatives of an X–ray–sensitive CHO cell line exhibit distinct patterns of sensitivity to DNA–damaging agents. Jaffe DR, et al. **Carcinogenesis** 1990 Aug;11(8):1265–9

Strand scission in DNA induced by quercetin and Cu(II): role of Cu(I) and oxygen free radicals. Rahman A, et al. **Carcinogenesis** 1989 Oct;10(10):1833–9

Involvement of DNA topoisomerase II in the selective resistance of a mammalian cell mutant to DNA minor

groove ligands: ligand-induced DNA-protein crosslinking and responses to topoisomerase poisons. Smith PJ, et al. **Carcinogenesis** 1990 Apr;11(4):659–65

Detection and characterization of carcinogen–DNA adducts in exfoliated urothelial cells from 4-aminobiphenyl-treated dogs by 32P-postlabelling and subsequent thin-layer and high-pressure liquid chromatography. Talaska G, et al. **Carcinogenesis** 1990 Apr;11(4):639–46

Formation of DNA-adducts and induction of DNA-crosslinks and chromosomal aberrations by the new potent anthracycline antitumor antibiotics: morpholinodaunomycin, cyanomorpholinodaunomycin and cyanomorpholinoadriamycin. Westendorf J, et al. **Cell Biol Toxicol** 1985 Jan;1(2):87–101

The minor-groove binding DNA-ligands netropsin, distamycin A and berenil cause polyploidisation via impairment of the G2 phase of the cell cycle. Poot M, et al. **Cell Struct Funct** 1990 Jun;15(3):151–7

A scanning calorimetric study of natural DNA and antitumoral anthracycline antibiotic–DNA complexes. Barceló F, et al. **Chem Biol Interact** 1990;74(3):315–24

Formation, resealing and persistence of DNA breaks produced by 4-demethoxydaunorubicin in P388 leukemia cells. Capranico G, et al. **Chem Biol Interact** 1989; 72(1–2):113–23

Synthesis of two novel thioacridinic derivatives and comparison of their in vitro biological activities. Mannani R, et al. **Chem Biol Interact** 1990;74(3):291–303

Effects of tert-butyl hydroperoxide on promotable and non-promotable JB6 mouse epidermal cells. Müehlematter D, et al. **Chem Biol Interact** 1989;71(4):339–52

Characteristics of the interaction of lycobetaine with DNA. Liu J, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Sep; 10(5):437–42

Denaturing effect of acridine orange and adriamycin. Cerdán ME, et al. **Cytobios** 1989;60(242–243):151–5

Mutational specificity of alkylating agents and the influence of DNA repair. Horsfall MJ, et al. **Environ Mol Mutagen** 1990;15(2):107–22 (199 ref.)

Acridine orange-induced precipitation of mouse testicular sperm cell DNA reveals new patterns of chromatin structure. Evenson D, et al. **Exp Cell Res** 1990 Apr; 187(2):328–34

Abundant alkali-sensitive sites in DNA of human and mouse sperm. Singh NP, et al. **Exp Cell Res** 1989 Oct; 184(2):461–70

Cytochalasin B induces cellular DNA fragmentation. Kolber MA, et al. **FASEB J** 1990 Sep;4(12):3021–7

Non-random spontaneous chain breakages occur in DNA methylated with dimethyl sulfate. Dölle A, et al. **FEBS Lett** 1989 Sep 25;255(2):451–4

Bacitracin and a bacitracin-zinc complex damage DNA and carbohydrate in the presence of iron and copper salts. Quinlan GJ, et al. **Free Radic Res Commun** 1989;7(1):37–44

DNA single strand breakage by H2O2 and ferric or cupric ions: its modulation by histidine. Tachon P. **Free Radic Res Commun** 1990;9(1):39–47

Cell kinetic disturbances induced by treatment of human diploid fibroblasts with 5-azacytidine indicate a major role for DNA methylation in the regulation of the chromosome cycle. Poot M, et al. **Hum Genet** 1990 Feb;84(3):258–62

Comparison of DNA cleavage induced by etoposide and doxorubicin in two human small-cell lung cancer lines with different sensitivities to topoisomerase II inhibitors. Binaschi M, et al. **Int J Cancer** 1990 Feb 15;45(2):347–52

Increased levels of 5-fluorouracil-induced DNA lesions in Bloom's syndrome. Lönn U, et al. **Int J Cancer** 1990 Mar 15;45(3):494–9

Enhanced DNA repair and tolerance of DNA damage associated with resistance to cis-diammine-dichloroplatinum (II) after in vitro exposure of a human teratoma cell line to fractionated X-irradiation. Hill BT, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul; 19(1):75–83

Desferrioxamine-induced alterations in hepatic iron distribution, DNA damage and lipid peroxidation in control and 2,3,7,8-tetrachlorodibenzo-p-dioxin-treated rats. Wahba ZZ, et al. **J Appl Toxicol** 1990 Apr;10(2):119–24

Damage to the bases in DNA induced by hydrogen peroxide and ferric ion chelates. Aruoma OI, et al. **J Biol Chem** 1989 Dec 5;264(34):20509–12

Sequence-specific double-strand breakage of DNA by neocarzinostatin involves different chemical mechanisms within a staggered cleavage site. Dedon PC, et al. **J Biol Chem** 1990 Sep 5;265(25):14713–6

Interleukin 1 inhibits T cell receptor–mediated apoptosis in immature thymocytes. McConkey DJ, et al. **J Biol Chem** 1990 Feb 25;265(6):3009–11

DNA fragmentation induced in macrophages by gliotoxin does not require protein synthesis and is preceded by raised inositol triphosphate levels. Waring P. **J Biol Chem** 1990 Aug 25;265(24):14476–80

Heterogeneity of nitrogen mustard-induced DNA damage and repair at the level of the gene in Chinese hamster ovary cells. Wassermann K, et al. **J Biol Chem** 1990 Aug 15; 265(23):13906–13

Fragmentation of cellular DNA is a nonspecific indicator of responsiveness to tumor necrosis factor. Rubin BY, et al. **J Biol Response Mod** 1989 Oct;8(5):553–9

Modulation of the B–A transition of DNA by potential antitumor antibiotics. Influence of the base composition of DNA. Fritzsche H, et al. **J Biomol Struct Dyn** 1990 Apr; 7(5):1135–40

Interaction of Hoechst 33258 with repeating synthetic DNA polymers and natural DNA. Jorgenson KF, et al. **J Biomol Struct Dyn** 1988 Apr;5(5):1005–23

Phase diagrams for DNA crystallization systems. Malinina LV, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):405–33

Specificity of the binding of fd gene 5 protein to polydeoxyribonucleotides. Sang BC, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):693–706

Minor-groove binding models for acetylaminofluorene modified DNA. Shapiro R, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):493–513

Polyamine–DNA interactions. Condensation of chromatin and naked DNA. Smirnov IV, et al. **J Biomol Struct Dyn** 1988 Apr;5(5):1149–61

The influence of intercalator structure on DNA binding strength: the importance of side chain orientation. Wilson WD, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):327–44

Genotoxic evaluation of chronic fluoride exposure: micronucleus and sperm morphology studies. Dunipace AJ, et al. **J Dent Res** 1989 Nov;68(11):1525–8

Inhibition of epidermal growth factor–mediated DNA synthesis by a specific tyrosine kinase inhibitor in vascular smooth muscle cells of the spontaneously hypertensive rat. Clegg KB, et al. **J Hypertens Suppl** 1989 Dec;7(6):S144–5

Effect of low-density lipoprotein on intracellular calcium, intracellular pH and DNA synthesis in cultured vascular smooth muscle cells. Sachinidis A, et al. **J Hypertens Suppl** 1989 Dec;7(6):S116–7

Alkylation of DNA by C-10 of 2,7-diaminomitosene. Iyengar BS, et al. **J Med Chem** 1990 Jan;33(1):253–7

1H and 31P nuclear magnetic resonance studies of the differences in DNA deformation induced by anti-tumoral 7H-pyrido[4,3-c]carbazole dimers. Delepierre M, et al. **J Mol Biol** 1989 Nov 5;210(1):211–28

Effect of intercalative binding compared to external binding on Z/B equilibrium of poly d(GMe5C) using fluorescent oxazolopyridocarbazoles as probes. Le Ber P, et al. **J Mol Recognit** 1989 Dec;2(4):152–7

Differences between sites of binding to DNA and strand cleavage for complexes of bleomycin with iron or cobalt. McLean MJ, et al. **J Mol Recognit** 1989 Apr;1(4):184–92

Association of anthracyclines and synthetic hexanucleotides. Structural factors influencing sequence specificity. Rizzo V, et al. **J Mol Recognit** 1989 Nov;2(3):132–41

Molecular basis for potentiation of bleomycin-mediated degradation of DNA by polyamines. Experimental and molecular mechanical studies. Strekowski L, et al. **J Mol Recognit** 1989 Dec;2(4):158–66

Omeprazole and genotoxicity [letter] **Lancet** 1990 Mar 10; 335(8689):611–2

Omeprazole and genotoxicity [editorial] **Lancet** 1990 Feb 17; 335(8686):386

Omeprazole and genotoxicity [letter] **Lancet** 1990 Apr 14; 335(8694):909–11

Genotoxicity studies of gastric acid inhibiting drugs [letter] Burlinson B, et al. **Lancet** 1990 Feb 17;335(8686):419–20

DNA strand breaks in human leukocytes induced by chemotherapy and total body irradiation. Franssen C, et al. **Leuk Res** 1990;14(1):91–7

Opioid-dependent growth of glial cultures: suppression of astrocyte DNA synthesis by met-enkephalin. Stiene-Martin A, et al. **Life Sci** 1990;46(2):91–8

Mitogen-activation of spleen cells in aged animals is potentiated by dietary restriction: a preliminary report. Peng S, et al. **Mech Ageing Dev** 1990 Mar 1;52(1):71–8

Sequence-specific chemical modification of chromatin DNA with reactive derivatives of oligonucleotides. Vlassov VV, et al. **Mol Biol Rep** 1990 Feb;14(1):11–5

Template specificities of aclacinomycin B on the inhibition of DNA-dependent RNA synthesis in vitro. Li LH, et al. **Mol Cell Biochem** 1989 Oct 5;90(1):91–7

Interaction of DNA intercalator 3-nitrobenzothiazolo (3,2-a)quinolinium with DNA topoisomerases: a possible-mechanism for its biological activity. Báez A, et al. **Mol Pharmacol** 1990 Mar;37(3):377–82

Analysis of proteins cross-linked to DNA after treatment of cells with formaldehyde, chromate, and cis-diamminedichloroplatinum(II). Miller CA 3d, et al. **Mol Toxicol** 1989 Winter;2(1):11–26

Molecular aspects of chemical mutagenesis in L5178Y/tk +/- mouse lymphoma cells. Clive D, et al. **Mutagenesis** 1990 Mar;5(2):191–7

Comparative genotoxicities of procarbazine and two deuterated analogs in mammalian cells in vitro and in vivo. Holme JA, et al. **Mutagenesis** 1989 Sep;4(5):355–60

Specificity of the in vitro interaction of methylfurfural with DNA. Shahabuddin AR, et al. **Mutagenesis** 1990 Mar; 5(2):131–6

The role of excision repair in the removal of transient benzo[a]pyrene-induced DNA lesions in Chinese hamster ovary cells. Blakey DH, et al. **Mutat Res** 1990 Jul; 236(1):35–41

Neutral filter elution detects only limited inhibition of double-strand break repair by 9-beta-D-arabinofuranosyladenine. Costa ND, et al. **Mutat Res** 1990 May;235(3):217–23

The kinetics of DNA damage by bleomycin in mammalian cells. López-Larraza D, et al. **Mutat Res** 1990 Sep; 232(1):57–61

Immunodetection of DNA-protein crosslinks by slot blotting. Miller CA 3d, et al. **Mutat Res** 1990 Apr;234(2):97–106

Reactive oxygen–mediated damage to murine mammary tumor cells. Paul LA, et al. **Mutat Res** 1989 Dec; 215(2):223–34

Electrophoretic analysis of DNA modifications induced by cis- and trans-diamminedichloroplatinum (II) during heat-denaturation of conformation isomers of pBR322 DNA. Rauko P, et al. **Neoplasma** 1990;37(2):131–8

Reversible toroidal compaction of DNA by aluminum. Karlik SJ, et al. **Neurotoxicology** 1989 Summer;10(2):167–76

DNA binding and cleavage by enediyne antitumor antibiotics, esperamicin and dynemicin. Shiraki T, et al. **Nucleic Acids Symp Ser** 1989;(21):53–4

DNA strand scission by antitumor antibiotics. Detection of C-4'-hydroxylated abasic sites in DNA. Sugiyama H, et al. **Nucleic Acids Symp Ser** 1989;(21):51–2

Photobiological properties of a novel, naturally occurring furoisocoumarin, coriandrin. Ashwood-Smith MJ, et al. **Photochem Photobiol** 1989 Dec;50(6):745–51

Echinomycin-induced hypersensitivity to osmium tetroxide of DNA fragments incapable of forming Hoogsteen base pairs. McLean MJ, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9687–91

DNA intercalation and cleavage of an antitumor antibiotic dynemicin that contains anthracycline and enediyne cores. Sugiura Y, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3831–5

DNA adduct formation in relation to tumorigenesis in mice chronically fed 2-acetylaminofluorene. Beland FA, et al. **Prog Clin Biol Res** 1990;331:121–9; discussion 147–8

Investigation of styrene oxide–DNA adducts and their detection in workers exposed to styrene. Bodell WJ, et al. **Prog Clin Biol Res** 1990;340C:271–82

The role of DNA adducts in diesel exhaust-induced pulmonary carcinogenesis. Bond JA, et al. **Prog Clin Biol Res** 1990;340C:259–69

Chemistry of DNA alkylation and aralkylation. Dipple A, et al. **Prog Clin Biol Res** 1990;340A:71–80 (16 ref.)

The role of carcinogen DNA adduct structure in the induction of mutations. Loechler EL, et al. **Prog Clin Biol Res** 1990;340A:51–60 (29 ref.)

Application of the 32P-postlabelling technique to detect DNA-adducts by cisplatin and methylating agents. Mustonen R, et al. **Prog Clin Biol Res** 1990;340C:293–300

Detection of DNA damage in spermiogenic stages of mice treated with enriched uranyl fluoride by alkaline elution. Hu QY, et al. **Radiat Environ Biophys** 1990;29(3):161–7

Hydrogen peroxide–induced base damage in deoxyribonucleic acid. Blakely WF, et al. **Radiat Res** 1990 Mar;121(3):338–43

The effect of single versus double-strand substitution on halogenated pyrimidine–induced radiosensitization and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Radiat Res** 1990 Aug;123(2):192–8

DNA adducts of nitropyrene detected by specific antibodies. Groopman JD. **Res Rep Health Eff Inst** 1987 Apr;(7):1–17

Alterations in deoxyribonucleic acid and proteins in cerebral tissues from fetuses subject to alcohol in utero. López de Ochoa JA, et al. **Rev Esp Fisiol** 1989;45 Suppl:35–42

Damage to DNA strand and the effects of anticancer drugs. Kanamaru R, et al. **Sci Rep Res Inst Tohoku Univ [Med]** 1989 Dec; 36(1–4):29–36

Erythropoietin retards DNA breakdown and prevents programmed death in erythroid progenitor cells. Koury MJ, et al. **Science** 1990 Apr 20;248(4953):378–81

Genetic activity profiles in the testing and evaluation of chemical mixtures. Waters MD, et al. **Teratogenesis Carcinog Mutagen** 1990;10(2):147–64 (19 ref.)

Effects of ozone inhalation on polyamine metabolism and tritiated thymidine incorporation into DNA of rat lungs. Elsayed NM, et al. **Toxicol Appl Pharmacol** 1990 Jan; 102(1):1–8

DNA damage induced in rats by oral administration of chlordiazepoxide plus sodium nitrite or of N-nitrosochlordiazepoxide. Robbiano L, et al. **Toxicol Appl Pharmacol** 1990 Jan;102(1):186–90

Mutagenicity, metabolism, and DNA interactions of urethane. Sotomayor RE, et al. **Toxicol Ind Health** 1990 Jan;6(1):71–108 (149 ref.)

Inhibitory effects of benomyl and carbendazim on the [3H]thymidine incorporation in various organs of the mouse--evidence for a more pronounced action of benomyl. Hellman B, et al. **Toxicology** 1990 Apr 17; 61(2):161–9

Dichloroacetic acid and trichloroacetic acid–induced DNA strand breaks are independent of peroxisome proliferation. Nelson MA, et al. **Toxicology** 1989 Oct 16;58(3):239–48

Glucocorticoid-induced DNA fragmentation in acute lymphoblastic leukemia cells. Distelhorst CW, et al. **Trans Assoc Am Physicians** 1988;101:114–24

Parentage analysis by endonuclease shattering of hypervariable DNA. Chiafari FA, et al. **Transfusion** 1990 Sep;30(7):648–50

DNA as a target for drug action. Hurley LH, et al. **Trends Pharmacol Sci** 1988 Nov;9(11):402–7 (31 ref.)

Hg(II)-induced changes in DNA-circular dichroism: reversible transitions between right-handed and left-handed screwness. Gruenwedel DW. **Z Naturforsch [C]** 1989 Nov-Dec;44(11–12):1015–9

[Is hypomethylation of cellular DNA a step required in the initiation process of chemical carcinogenesis?] Shi ZZ, et al. **Shih Yen Sheng Wu Hsueh Pao** 1989 Sep;22(3):305–11

(Eng. Abstr.) (Chi)
[Structure of a psoralen-thymine photoproduct: model for the interaction with DNA on the pyrone ring of psoralen Salahou PA, et al. **Acta Crystallogr C** 1988 Dec 15;44 (Pt 12):2167-70 (Eng. Abstr.) (Fre)
[The effect of thymectomy and the polypeptide thymus extract TP2 on the nucleic acid and cholesterol content of the testicle and on serum testosterone in the rat] Boeru V, et al. **Endocrinologie** 1989 Apr-Jun;27(2):65-71 (Fre)
[Detection of cellular DNA strand breaks induced by antitumor drug and heat using in situ nick translation] Maehara Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1576-8 (Eng. Abstr.) (Jpn)
[Histological and histochemical changes in the crystalline lenses of lead-contaminated chickens] Gruszczynska M. **Klin Oczna** 1989 Apr;91(4):79-81 (Eng. Abstr.) (Pol)
[Comparison of DNA interaction with sphingomyelin, spermine and magnesium ions using a spin label method] Krasil'nikov VA, et al. **Biofizika** 1989 Nov-Dec; 34(6):953-7 (Eng. Abstr.) (Rus)
[The effect of preparations of Hirudo medicinalis leeches on DNA methylation in the rat liver] Nikonov GI, et al. **Biol Nauki** 1990;(4):21-5 (Eng. Abstr.) (Rus)
[Reactive oligonucleotide derivatives containing methylphosphonate groups. V. Increased effectiveness of complementary addressed modification of target DNA by alkylating derivatives of methylphosphonate analogs of octathymidylate containing N-(2-hydroxyethyl)phenazinium residues] Amirkhanov NV, et al. **Bioorg Khim** 1990 Mar;16(3):370-8 (Eng. Abstr.) (Rus)
[An analysis of DNA secondary structure during lymphocyte activation by mitogens] Moskaleva Elu. **Biull Eksp Biol Med** 1989 Sep;108(9):335-7 (Eng. Abstr.) (Rus)
[Effect of myelopeptides on DNA and protein synthesis and antibody secretion by mouse B-cell hybridomas] Novikov VI, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):724-6 (Rus)
[Interferon stimulation of DNA reparative synthesis in human cells with an inhibited repair system] Chekova VV, et al. **Dokl Akad Nauk SSSR** 1989;309(5):1238-40 (Rus)
[Oscillatory changes in the transcription and supercoiling of minichromosomal DNA after the withdrawal of butyric acid from a mouse cell culture] Kraevskiĭ VA, et al. **Dokl Akad Nauk SSSR** 1989;309(4):1008-11 (Rus)
[The effect of 3,4-disuccinyldianhydrogalactitol, N-nitrosourea and their combination on DNA synthesis in normal and mouse P388 tumor cells] Sokolova IS, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Jul-Aug;(4):527-33 (Eng. Abstr.) (Rus)
[Synthesis, properties and interaction with eukaryotic cells of alkylating derivatives of oligodeoxyribonucleotides containing cholesterol or phenazinium residue covalently bound to the 3'-terminus] Butorin AS, et al. **Mol Biol (Mosk)** 1989 Sep-Oct;23(5):1382-90 (Eng. Abstr.) (Rus)
[The study of complex-formation of DNA with the antimicrobial drug decamethoxine] Sorokin VA, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):214-9 (Eng. Abstr.) (Rus)
[Changes in thymocyte DNA template activity under the effect of agents acting on the central nervous system] Golikov PP, et al. **Patol Fiziol Eksp Ter** 1989 May-Jun; (3):18-21 (Eng. Abstr.) (Rus)
[The toxicity of sanguinarine compared to a number of other DNA-tropic compounds for ethidium bromide-sensitive and -resistant transformed murine fibroblasts in culture] Beliaeva TN, et al. **Tsitologiia** 1989 Nov;31(11):1363-8 (Eng. Abstr.) (Rus)
[DNA synthesis in the nuclei of stimulated NIH 3T3 cells in heterodikaryons obtained by the fusion of these cells with resting cells treated with cycloheximide] Setkov NA, et al. **Tsitologiia** 1989 Nov;31(11):1339-44 (Eng. Abstr.) (Rus)
[Telomeric fusion of the chromosomes in cells with micronuclei during the subsequent incorporation into the DNA of thymidine halogenated analogs] Stobetskiĭ VI, et al. **Tsitologiia** 1989 Oct;31(10):1242-4 (Eng. Abstr.) (Rus)
[The effect of transforming growth factor beta on the intensity of cellular DNA synthesis in relation to the type and conditions of cultivation] Stolka RS, et al. **Tsitologiia** 1990;32(2):132-9 (Eng. Abstr.) (Rus)
[Transcription of nucleoplasmatic and nucleolar sites of DNA sensitive to the protease inhibitor antipain] Iarygin VN, et al. **Vestn Akad Med Nauk SSSR** 1990;(2):46-8 (Eng. Abstr.) (Rus)

GENETICS

Isolation and characterization of form specific DNA sequences of O. volvulus. Erttmann KD, et al. **Acta Leiden** 1990;59(1-2):253-60
cDNA cloning of kininase 1. Gebhard W, et al. **Adv Exp Med Biol** 1989;247B:261-4
Characterization of genomic DNA, mRNA and enzyme protein in cases of HPRT-deficiency. Gordon RB, et al. **Adv Exp Med Biol** 1989;253A:151-4
Deduced amino acid sequence from human phosphoribosylpyrophosphate synthetase subunit II cDNA. Iizasa T, et al. **Adv Exp Med Biol** 1989;253A:519-23
Characterization of the calmodulin-binding domain of calcineurin deduced from a complementary DNA clone. Kincaid RL, et al. **Adv Exp Med Biol** 1989;255:347-58
The human calbindins: cDNA and gene cloning. Parmentier M. **Adv Exp Med Biol** 1989;255:233-40
Lymphotoxin cDNA clones from a HTLV-I-carrying T cell line HUT-102. Kato S, et al. **AIDS Res Hum Retroviruses** 1989 Dec;5(6):663-70
Level and composition of fetal hemoglobin expression in normal newborn babies are not dependent on beta cluster DNA haplotype. Rochette J, et al. **Am J Hematol** 1990 Jul;34(3):223-4
Individual identification by DNA analysis: points to consider. Ad Hoc Committee on individual identification by DNA analysis, The American Society of Human Genetics. **Am J Hum Genet** 1990 Mar;46(3):631-4
DNA fingerprinting for forensic identification: potential effects on data interpretation of subpopulation heterogeneity and band number variability. Cohen JE. **Am J Hum Genet** 1990 Feb;46(2):358-68
Topography of the Duchenne muscular dystrophy (DMD) gene: FIGE and cDNA analysis of 194 cases reveals 115 deletions and 13 duplications. Den Dunnen JT, et al. **Am J Hum Genet** 1989 Dec;45(6):835-47
Strong linkage disequilibrium between the XY274 polymorphism and the pseudoautosomal boundary. Ellis N, et al. **Am J Hum Genet** 1990 May;46(5):950-5
Infantile hypophosphatasia: localization within chromosome region 1p36.1-34 and prenatal diagnosis using linked DNA markers. Greenberg CR, et al. **Am J Hum Genet** 1990 Feb; 46(2):286-92
Defining DNA diagnostic tests appropriate or standard clinical care. Lebo RV, et al. **Am J Hum Genet** 1990 Sep; 47(3):583-90
Extensive genetic heterogeneity in patients with acid alpha glucosidase deficiency as detected by abnormalities of DNA and mRNA. Martiniuk F, et al. **Am J Hum Genet** 1990 Jul;47(1):73-8
Regional evaluation of DNA diagnostic laboratories [letter] Matteson KJ, et al. **Am J Hum Genet** 1990 Jan;46(1):182-3
Diagnosis of neurofibromatosis I by using tightly linked, flanking DNA markers. Ward K, et al. **Am J Hum Genet** 1990 May;46(5):943-9
Isolation and sequencing of a complementary deoxyribonucleic acid clone encoding human placental 17 beta-estradiol dehydrogenase: identification of the putative cofactor binding site. Gast MJ, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1726-31
Analysis of DNA ploidy and proliferative activity in relation to histology and N-myc amplification in neuroblastoma. Cohn SL, et al. **Am J Pathol** 1990 May;136(5):1043-52
Flow cytometric DNA analysis of lesions from 18 children with langerhans cell histiocytosis (histiocytosis x). Ornvold K, et al. **Am J Pathol** 1990 Jun;136(6):1301-7
DNA technology. Wong RS, et al. **Am J Surg** 1990 Jun; 159(6):610-4 (59 ref.)
What can DNA rearrangements tell us about solid hematolymphoid neoplasms? Sklar J. **Am J Surg Pathol** 1990;14 Suppl 1:16-25 (61 ref.)
A microplate version of the DNA-synthesis inhibition test for rapid detection of DNA-alteration potentials. Heil J, et al. **Anal Biochem** 1990 Jun;187(2):314-7
A hypervariable pig DNA fragment. Coppieters W, et al. **Anim Genet** 1990;21(1):29-38
Isolation and characterization of two male-specific DNA fragments from the bovine gene. Miller JR, et al. **Anim Genet** 1990;21(1):77-82
Isolation of a human cytochrome P-450 reductase cDNA clone and localization of the corresponding gene to chromosome 7q11.2. Shephard EA, et al. **Ann Hum Genet** 1989 Oct;53 (Pt 4):291-301
Molecular cloning of cDNAs for alpha and beta subunits of human pyruvate dehydrogenase. Koike K, et al. **Ann N Y Acad Sci** 1989;573:100-12
cDNA cloning of the E1 alpha subunit of the branched-chain alpha-keto acid dehydrogenase and elucidation of a molecular basis for maple syrup urine disease. Zhang B, et al. **Ann N Y Acad Sci** 1989;573:130-6
Tumor necrosis factor analogs: identification of functional domains. Sidhu RS, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1569-76
Rapid typing of apolipoprotein B DNA polymorphisms by DNA amplification. Association between Ag epitopes of human apolipoprotein B-100, a signal peptide insertion/deletion polymorphism, and a 3'flanking DNA variable number of tandem repeats polymorphism of the apolipoprotein B gene. Boerwinkle E, et al. **Atherosclerosis** 1990 Apr;81(3):225-32
DNA polymorphisms at the lipoprotein lipase gene: associations in normal and hypertriglyceridaemic subjects. Chamberlain JC, et al. **Atherosclerosis** 1989 Sep;79(1):85-91
DNA polymorphisms of the apolipoprotein B gene in patients with premature coronary artery disease. Genest JJ Jr, et al. **Atherosclerosis** 1990 May;82(1-2):7-17
Oestrogen sulfotransferase: molecular cloning and sequencing of cDNA for the bovine placental enzyme. Nash AR, et al. **Aust J Biol Sci** 1988;41(4):507-16
Characterization and regulation of a cDNA clone for rat pancreastatin. Abood ME, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1079-85
Characterization of a cDNA clone encoding a new species of the nonspecific cross-reacting antigen (NCA), a member of the CEA gene family. Arakawa F, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1063-71
Sequence of rat skeletal muscle phosphoglycerate mutase cDNA. Castellà-Escolà J, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1345-51
Cloning and cDNA sequence of the rat X-chromosome linked phosphoglycerate kinase. Ciccarese S, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1337-44
cDNA cloning of mouse myelin-associated glycoprotein: a novel alternative splicing pattern. Fujita N, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1162-9
Cloning and comparative mapping of a human class III (chi) alcohol dehydrogenase cDNA. Giri PR, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):453-60
Primary structure and functional expression of h-caldesmon complementary DNA. Hayashi K, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):503-11
Molecular cloning of androgen receptors from divergent species with a polymerase chain reaction technique: complete cDNA sequence of the mouse androgen receptor and isolation of androgen receptor cDNA probes from dog, guinea pig and clawed frog. He WW, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):697-704
Isolation of immediate-early differentiation mRNAs by enzymatic amplification of subtracted cDNA from human endothelial cells. Hla T, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):637-43
A novel peptide which stimulates adenylate cyclase: molecular cloning and characterization of the ovine and human cDNAs. Kimura C, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):81-9
Human complex II (succinate-ubiquinone oxidoreductase): cDNA cloning of iron sulfur (Ip) subunit of liver mitochondria. Kita K, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):101-8
Transfection of cDNA with G——T point mutation at the cleavage site of insulin receptors to COS 7 cells. Kobayashi M, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1073-8
Demonstration of a new mouse mammary tumor virus locus in the genome of the mammary tumor prone strain SHN mouse. Koizumi A, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):336-41
Alternative splicing of mouse brain 2',3'-cyclic-nucleotide 3'-phosphodiesterase mRNA. Kurihara T, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1074-81
Monospecific antibodies against a synthetic peptide predicted from the alpha-3 nicotinic receptor cDNA inhibit binding of [3H]nicotine to rat brain nicotinic cholinergic receptor. Madhok TC, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):151-7
Molecular cloning of the cDNA coding for proline-rich protein (PRP): identity of PRP as C4b-binding protein. Matsuguchi T, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):138-44
Molecular cloning and expression of cDNAS encoding rat aldosterone synthase: variants of cytochrome P-450(11 beta). Matsukawa N, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):245-52
Identification by sequence analysis of a second rat brain cDNA encoding the dopamine (D2) receptor. Miller JC, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):109-12
Isolation and sequencing of a cDNA clone encoding 96 kDa sialoglycoprotein in rat liver lysosomal membranes. Noguchi Y, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1113-20
Human alpha-L-fucosidase: complete coding sequence from cDNA clones. Occhiodoro T, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):439-45
cDNA cloning of the hydroxysteroid sulfotransferase STa sharing a strong homology in amino acid sequence with the senescence marker protein SMP-2 in rat livers. Ogura K, et al. **Biochem Biophys Res Commun** 1990 Feb 14; 166(3):1494-500
Cloning and sequence analysis of a rat liver cDNA encoding hydroxysteroid sulfotransferase. Ogura K, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):168-74
Functional expression of human leukocyte elastase (HLE)/medullasin in eukaryotic cells. Okano K, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1326-32
Isolation and functional expression of the human atrial natriuretic peptide clearance receptor cDNA. Porter JG, et al. **Biochem Biophys Res Commun** 1990 Sep 14; 171(2):796-803
Genomic DNA 5' to the mouse and human angiotensin-converting enzyme genes contains two distinct regions of conserved sequence. Shai SY, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1128-33
cDNA sequence of human class III alcohol dehydrogenase. Sharma CP, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):631-7
Complementary DNA structure of the high molecular weight rat insulin-like growth factor binding protein (IGF-BP3) and tissue distribution of its mRNA. Shimasaki S, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):907-12
Nucleotide sequence determination of mouse, chicken and Xenopus laevis rig cDNAs: the rig-encoded protein is extremely conserved during vertebrate evolution. Sugawara A, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1501-7
Complementary DNA for the mouse homolog of the small subunit of human cytochrome b558. Sumimoto H, et al.

Biochem Biophys Res Commun 1989 Dec 15;165(2):902–6
Molecular cloning of guinea-pig aromatic-L-amino acid decarboxylase cDNA. Taketoshi M, et al.
Biochem Biophys Res Commun 1990 Aug 16;170(3):1229–35
The human pregnancy-specific glycoprotein genes are tightly linked on the long arm of chromosome 19 and are coordinately expressed [published erratum appears in Biochem Biophys Res Commun 1990 May 16;168(3):1325] Thompson J, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):848–59
Molecular cloning of a small prostate protein, known as beta-microsemenoprotein, PSP94 or beta-inhibin, and demonstration of transcripts in non-genital tissues. Ulvsbäck M, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1310–5
High levels of transcription driven by a 400 bp segment of the human G6PD promoter. Ursini MV, et al.
Biochem Biophys Res Commun 1990 Aug 16;170(3):1203–9
Cloning and sequencing of a cDNA encoding the Rieske iron-sulfur protein of bovine heart mitochondrial ubiquinol-cytochrome c reductase. Usui S, et al.
Biochem Biophys Res Commun 1990 Mar 16;167(2):575–9
Rat pancreatic colipase mRNA: nucleotide sequence of a cDNA clone and nutritional regulation by a lipidic diet. Wicker C, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):130–6
Amino acid sequence of chicken calsequestrin deduced from c DNA: comparison of calsequestrin and aspartactin. Yazaki PJ, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1089–95
NIH3T3 transforming gene not a general feature of atherosclerotic plaque DNA (atherosclerosis/oncogene/NIH3T3 transfection assay). Yew PR, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1067–71
Cloning of rodent cDNA coding the poly(ADP-ribose) polymerase catalytic domain and analysis of mRNA levels during the cell cycle. Thibodeau J, et al.
Biochem Cell Biol 1989 Sep;67(9):653–60
Expression of mature pulmonary surfactant-associated protein B (SP-B) in Escherichia coli using truncated human SP-B cDNAs. Yao LJ, et al. **Biochem Cell Biol** 1990 Feb; 68(2):559–66
DNA length variants contiguous to the 3' end of a vitellogenin gene in Drosophila grimshawi laboratory stocks from different Hawaiian Islands. Hatzopoulos P, et al. **Biochem Genet** 1989 Jun;27(5–6):367–77
The primary structure of human Rieske iron-sulfur protein of mitochondrial cytochrome bc1 complex deduced from cDNA analysis. Nishikimi M, et al. **Biochem Int** 1990; 20(1):155–60
Expression of a cDNA for the catalytic subunit of skeletal-muscle phosphorylase kinase in transfected 3T3 cells. Cawley KC, et al. **Biochem J** 1989 Oct 1;263(1):223–9
Detection of single base changes in nucleic acids. Cotton RG. **Biochem J** 1989 Oct 1;263(1):1–10 (115 ref.)
The cDNA cloning of a pea (Pisum sativum) seed lipoxygenase. Sequence comparisons of the two major pea seed lipoxygenase isoforms. Ealing PM, et al.
Biochem J 1989 Dec 15;264(3):929–32
Sequence of cDNA for rat cystathionine gamma-lyase and comparison of deduced amino acid sequence with related Escherichia coli enzymes. Erickson PF, et al.
Biochem J 1990 Jul 15;269(2):335–40
Characterization of metallothionein cDNAs induced by cadmium in the nematode Caenorhabditis elegans. Imagawa M, et al. **Biochem J** 1990 May 15;268(1):237–40
The human heat-shock protein family. Expression of a novel heat-inducible HSP70 (HSP70B') and isolation of its cDNA and genomic DNA. Leung TK, et al.
Biochem J 1990 Apr 1;267(1):125–32
Nucleotide sequence of cDNA coding for rat liver pI 6.1 esterase (ES-10), a carboxylesterase located in the lumen of the endoplasmic reticulum. Robbi M, et al.
Biochem J 1990 Jul 15;269(2):451–8
Heterogeneity of human serum amyloid A protein. Five different variants from one individual demonstrated by cDNA sequence analysis. Steinkasserer A, et al.
Biochem J 1990 May 15;268(1):187–93
The epsilon-subunit of ATP synthase from bovine heart mitochondria. Complementary DNA sequence, expression in bovine tissues and evidence of homologous sequences in man and rat. Viñas O, et al. **Biochem J** 1990 Jan 15; 265(2):321–6
Mouse C-reactive protein. Generation of cDNA clones, structural analysis, and induction of mRNA during inflammation. Whitehead AS, et al. **Biochem J** 1990 Feb 15;266(1):283–90
A human liver cDNA showing sequence similarity with the human glutathione peroxidase gene. Dunn DK, et al.
Biochem Soc Trans 1989 Dec;17(6):1128–9
Class-switch recombination in extrachromosomal DNA substrates in murine pre-B-cells. Fanning LJ, et al.
Biochem Soc Trans 1990 Apr;18(2):356–7
Cloning of genomic and cDNA sequences encoding an invertebrate gamma-aminobutyric acidA receptor subunit. Harvey RJ, et al. **Biochem Soc Trans** 1990 Jun;18(3):438–9
Expression cloning of proteins on membrane traffic pathways. Luzio JP, et al. **Biochem Soc Trans** 1990 Apr; 18(2):148–9
A new method of screening receptor cDNAs: influence of plasmid competition on receptor expression. Rattray M, et al. **Biochem Soc Trans** 1989 Dec;17(6):1068–9
Identification of rat liver cDNA sequences using a panel of monoclonal antibodies to a human P-450III form. Webster DF, et al. **Biochem Soc Trans** 1989 Dec;17(6):1024–5
Expression of cDNAs encoding wild-type and mutant neuromodulins in Escherichia coli: comparison with the native protein from bovine brain. Au DC, et al.
Biochemistry 1989 Oct 3;28(20):8142–8
Oligosaccharide processing in the expression of human plasminogen cDNA by lepidopteran insect (Spodoptera frugiperda) cells. Davidson DJ, et al. **Biochemistry** 1990 Jun 12;29(23):5584–90
Molecular cloning of cDNA for proteasomes (multicatalytic proteinase complexes) from rat liver: primary structure of the largest component (C2). Fujiwara T, et al.
Biochemistry 1989 Sep 5;28(18):7332–40
Cloning and characterization of a cDNA encoding the beta subunit of human casein kinase II. Heller-Harrison RA, et al. **Biochemistry** 1989 Nov 14;28(23):9053–8
In vivo studies on the dynamics of histone-DNA interaction: evidence for nucleosome dissolution during replication and transcription and a low level of dissolution independent of both. Jackson V. **Biochemistry** 1990 Jan 23;29(3):719–31
Nucleotide and deduced amino acid sequence of a human cDNA (NQO2) corresponding to a second member of the NAD(P)H:quinone oxidoreductase gene family. Extensive polymorphism at the NQO2 gene locus on chromosome 6. Jaiswal AK, et al. **Biochemistry** 1990 Feb 20; 29(7):1899–906
Cloning and expression of three rabbit kidney cDNAs encoding lauric acid omega-hydroxylases. Johnson EF, et al. **Biochemistry** 1990 Jan 30;29(4):873–9
Cloning and characterization of the human colipase cDNA. Lowe ME, et al. **Biochemistry** 1990 Jan 23;29(3):823–8
Structural and functional organization of a porcine gene coding for nuclear factor I. Meisterernst M, et al.
Biochemistry 1989 Oct 3;28(20):8191–200
The human CYP2F gene subfamily: identification of a cDNA encoding a new cytochrome P450, cDNA-directed expression, and chromosome mapping. Nhamburo PT, et al. **Biochemistry** 1990 Jun 12;29(23):5491–9
Identification of a new P450 expressed in human lung: complete cDNA sequence, cDNA-directed expression, and chromosome mapping. Nhamburo PT, et al.
Biochemistry 1989 Oct 3;28(20):8060–6
Homologous membrane folate binding proteins in human placenta: cloning and sequence of a cDNA. Ratnam M, et al. **Biochemistry** 1989 Oct 3;28(20):8249–54
Antisense peptide recognition of sense peptides: sequence simplification and evaluation of forces underlying the interaction. Shai Y, et al. **Biochemistry** 1989 Oct 31; 28(22):8804–11
cDNA cloning and predicted amino acid sequence of Glycera dibranchiata monomer hemoglobin IV. Simons PC, et al.
Biochemistry 1989 Oct 17;28(21):8525–30
Molecular cloning of cDNA for proteasomes from rat liver: primary structure of component C3 with a possible tyrosine phosphorylation site. Tanaka K, et al. **Biochemistry** 1990 Apr 17;29(15):3777–85
Cloning of rat aorta lysyl oxidase cDNA: complete codons and predicted amino acid sequence. Trackman PC, et al.
Biochemistry 1990 May 22;29(20):4863–70
Structure of human osteonectin based upon analysis of cDNA and genomic sequences. Villarreal XC, et al.
Biochemistry 1989 Jul 25;28(15):6483–91
Isolation and characterization of cloned cDNAs encoding human liver chlordecone reductase. Winters CJ, et al.
Biochemistry 1990 Jan 30;29(4):1080–7
cDNA cloning and sequence and cDNA-directed expression of human P450 IIB1: identification of a normal and two variant cDNAs derived from the CYP2B locus on chromosome 19 and differential expression of the IIB mRNAs in human liver. Yamano S, et al. **Biochemistry** 1989 Sep 5;28(18):7340–8
Characterization of a cDNA for the unexpressed form of cytochrome P-450g from the (-g) rat and differentiation of its mRNA from that of the (+g) phenotype using specific oligoprobes. Yeowell HN, et al. **Biochemistry** 1990 Jan 23;29(3):713–8
The nucleotide and deduced amino acid sequences of a cDNA encoding a new species of pregnancy-specific beta 1-glycoprotein (PS beta G). Arakawa F, et al.
Biochim Biophys Acta 1990 Apr 6;1048(2–3):303–5
Characterization of a mouse mitogen-regulated protein/proliferin gene and its promoter: a member of the growth hormone/prolactin gene superfamily. Connor AM, et al. **Biochim Biophys Acta** 1989 Sep 21;1009(1):75–82
Isolation of a cDNA likely to encode a novel Ca2+-dependent/calmodulin-stimulated protein phosphatase. da Cruz e Silva EF, et al.
Biochim Biophys Acta 1989 Dec 22;1009(3):293–6
Porcine growth hormone: molecular cloning of cDNA and expression in bacterial and mammalian cells. Kato Y, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2–3):290–3
Molecular cloning and expression of cDNA for rat pancreatic cholesterol esterase. Kissel JA, et al.
Biochim Biophys Acta 1989 Nov 28;1006(2):227–36
Use of a quaternary ammonium detergent in liposome mediated DNA transfection of mouse L-cells. Pinnaduwage P, et al. **Biochim Biophys Acta** 1989 Oct 2; 985(1):33–7
Cloning of the nucleic acid-binding domain of the rat HnRNP C-type protein. Sharp ZD, et al.
Biochim Biophys Acta 1990 Apr 6;1048(2–3):306–9
DNA transfection of mouse lymphoid cells by the combination of DEAE-dextran-mediated DNA uptake and osmotic shock procedure. Takai T, et al.
Biochim Biophys Acta 1990 Jan 30;1048(1):105–9
Effects of gene dosage on the expression of human growth hormone cDNA in Escherichia coli. Yamakawa M, et al.
Biochim Biophys Acta 1989 Nov 2;1009(2):156–60
The primary structure of rat ribosomal protein S19. Suzuki K, et al. **Biochimie** 1990 Apr;72(4):299–302
The history of the DNA heteroduplex. Holliday R.
Bioessays 1990 Mar;12(3):133–42 (58 ref.)
Environmental stimuli and transcriptional activity generate transient changes in DNA torsional tension. Saavedra RA.
Bioessays 1990 Mar;12(3):125–8 (26 ref.)
Chromosome reproduction: units of DNA for segregation. Taylor JH. **Bioessays** 1990 Jun;12(6):289–96 (41 ref.)
Molecular cloning, sequence analysis and mRNA expression of human ADP-ribosylation factor. Peng ZG, et al.
Biofactors 1989 Mar;2(1):45–9
Developmental expression pattern of a 800 kb DNA continuum cloned from the Drosophila X chromosome 14B-15B region. Surdej P, et al. **Biol Cell** 1990;68(2):105–18
Curvature of the light-responsive element of the plant gene rbcS-3A encoding the small subunit of ribulose-1,5-bisphosphate carboxylase. Cacchione S, et al.
Biophys Chem 1989 Jul;33(3):217–26
Screening mutants by a modified Sanger's dideoxy sequencing method in 96-well microtitre trays. Bandea CI, et al. **Biotechniques** 1989 Feb;7(2):142–3
An adaptor strategy to subclone entire cDNA libraries as single insert recombinants. Böttger EC. **Biotechniques** 1989 Oct;7(9):925–6, 928–9
High-efficiency generation of plasmid cDNA libraries using electro-transformation. Böttger EC. **Biotechniques** 1988 Oct;6(9):878–80
Enhanced specificity in immunoscreening of expression cDNA clones using radiolabeled antigen overlay. Chao S, et al. **Biotechniques** 1989 Jan;7(1):68–72
Direct cDNA cloning of the rearranged immunoglobulin variable region. Chiang YL, et al. **Biotechniques** 1989 Apr; 7(4):360–6
Full-length cDNA cloning utilizing the polymerase chain reaction, a degenerate oligonucleotide sequence and a universal mRNA primer. Cooper DL, et al.
Biotechniques 1990 Jul;9(1):60–5
An automated instrument for the performance of enzymatic DNA sequencing reactions. D'Cunha J, et al.
Biotechniques 1990 Jul;9(1):80–5, 88–90
An efficient and site-specific gene trimming method. Eun HM, et al. **Biotechniques** 1989 May;7(5):506–10
An effective method for eliminating "artifact banding" when sequencing double-stranded DNA templates. Fawcett TW, et al. **Biotechniques** 1990 Jul;9(1):46–8
Simplified method for selective amplification and direct sequencing of cDNAs. Gorman KB, et al.
Biotechniques 1989 Apr;7(4):326–8, 331
Use of a gas chromatograph oven for DNA amplification by the polymerase chain reaction. Hoffman LM, et al.
Biotechniques 1988 Nov-Dec;6(10):932, 934–6
A simple and easy-to-assemble device for polymerase chain reaction. Jagadeeswaran P, et al. **Biotechniques** 1990 Feb; 8(2):150–3
Rapid and reliable protocol for direct sequencing of material amplified by the polymerase chain reaction. Kusukawa N, et al. **Biotechniques** 1990 Jul;9(1):66–8, 70, 72
A strategy to study gene polymorphism by direct sequence analysis of cosmid clones and amplified genomic DNA. Levedakou EN, et al. **Biotechniques** 1989 May;7(5):438–42
An enrichment selection for mutants resulting from oligonucleotide-directed mutagenesis of double-stranded DNA. McCracken AA, et al. **Biotechniques** 1988 Apr; 6(4):332–9
A convenient method to increase the number of readable bases in DNA sequencing. Parkison C, et al.
Biotechniques 1989 Sep;7(8):828–9
Direct DNA sequencing of cDNA inserts from plaques using the linear polymerase chain reaction. Smith DP, et al.
Biotechniques 1990 Jul;9(1):48, 50, 52; passim
A rapid method for site directed mutagenesis of plasmid DNA. Stewart GS, et al. **Biotechniques** 1988 Jun; 6(6):511–2, 517–8
Modulation of eukaryotic gene expression by complementary RNA or DNA sequences. van der Krol AR, et al.
Biotechniques 1988 Nov-Dec;6(10):958–76 (132 ref.)
Double-stranded DNA sequencing with T7 polymerase. Wang Y. **Biotechniques** 1988 Oct;6(9):843–5
Optimization of asymmetric polymerase chain reaction for rapid fluorescent DNA sequencing. Wilson RK, et al.
Biotechniques 1990 Feb;8(2):184–9
DNA sequencing separations in capillary gels on a modified commercial DNA sequencing instrument. Zagursky RJ, et al. **Biotechniques** 1990 Jul;9(1):74–9
High-level expression of complementary DNA encoding rat calmodulin in Escherichia coli. Matsuki S, et al.
Biotechnol Appl Biochem 1990 Jun;12(3):284–91
The pattern of mutational involvement of RAS genes in human hematologic malignancies determined by DNA amplification and direct sequencing. Ahuja HG, et al.
Blood 1990 Apr 15;75(8):1684–90
Hereditary pyropoikilocytosis and elliptocytosis in a white

French family with the spectrin alpha I/74 variant related to a CGT to CAT codon change (Arg to His) at position 22 of the spectrin alpha I domain. Garbarz M, et al. **Blood** 1990 Apr 15;75(8):1691–8

Monoclonality in B-lymphoproliferative disorders detected at the DNA level. Trainor KJ, et al. **Blood** 1990 Jun 1; 75(11):2220–2

Principles of DNA cloning. Miles JS, et al. **BMJ** 1989 Oct 21;299(6706):1019–22 (14 ref.)

Chimerism studies using in situ hybridization for the Y chromosome after T cell–depleted bone marrow transplantation. Przepiorka D, et al. **Bone Marrow Transplant** 1990 Apr;5(4):253–7

An infrequent DNA polymorphism associated with severe von Willebrand's disease. Caekebeke–Peerlinck KM, et al. **Br J Haematol** 1990 May;75(1):78–81

The impact of molecular genetics on our understanding of the psychoses [see comments] Mullan MJ, et al. **Br J Psychiatry** 1989 May;154:591–5 (36 ref.) Comment in: Br J Psychiatry 1989 Oct;155:564–5.

Characterization of human cDNA and genomic clones for glial fibrillary acidic protein. Brenner M, et al. **Brain Res Mol Brain Res** 1990 May;7(4):277–86

Use of avidin–biotin subtractive hybridization to characterize mRNA common to neurons destroyed by the selective neurotoxicant trimethyltin. Krady JK, et al. **Brain Res Mol Brain Res** 1990 May;7(4):287–97

Ligand autoradiographic receptor screening: receptor cDNA expression in replicas of transfected COS cells. Rattray M, et al. **Brain Res Mol Brain Res** 1990 Apr;7(3):249–59

The cellular computer DNA: program or data. Atlan H, et al. **Bull Math Biol** 1990;52(3):335–48

The expected fraction of clonable genomic DNA. Tang B, et al. **Bull Math Biol** 1990;52(3):455–75

Genomic structure of the human proliferating cell nucleolar protein P120. Larson RG, et al. **Cancer Commun** 1990; 2(2):63–71

Sensitivity of Chinese hamster ovary mutants defective in DNA double strand break repair to topoisomerase II inhibitors. Jeggo PA, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7057–63

Presence of cell lineage–specific hypomethylated sites in the major breakpoint cluster region. Litz CE, et al. **Cancer Res** 1990 Aug 15;50(16):4984–90

Isolation of a complementary DNA encoding the catalytic subunit of protein kinase A and studies on the expression of this sequence in rat hepatomas and regenerating liver. Roth JS, et al. **Cancer Res** 1990 Mar 15;50(6):1675–80

Molecular biology: concepts and techniques. Liu E, et al. **Cancer Treat Res** 1989;47:25–36 (7 ref.)

The role of 8–hydroxyguanine in carcinogenesis. Floyd RA. **Carcinogenesis** 1990 Sep;11(9):1447–50 (27 ref.)

Human red cell glucose–6–phosphate dehydrogenase: all active enzyme has sequence predicted by the X chromosome–encoded cDNA. Beutler E, et al. **Cell** 1990 Jul 13;62(1):7–9

Reverse transcriptase, the end of the chromosome, and the end of life. Boeke JD. **Cell** 1990 Apr 20;61(2):193–5 (16 ref.)

A major segment of the neurofibromatosis type 1 gene: cDNA sequence, genomic structure, and point mutations [published erratum appears in Cell 1990 Aug 10;62(3):following 608] Cawthon RM, et al. **Cell** 1990 Jul 13;62(1):193–201

The MyoD DNA binding domain contains a recognition code for muscle–specific gene activation. Davis RL, et al. **Cell** 1990 Mar 9;60(5):733–46

A programmed site–specific DNA rearrangement in Tetrahymena thermophila requires flanking polypurine tracts. Godiska R, et al. **Cell** 1990 Jun 29;61(7):1237–46

The two faces of higher eukaryotic DNA replication origins. Linskens MH, et al. **Cell** 1990 Sep 7;62(5):845–7 (21 ref.)

Two contrary functions of tenascin: dissection of the active sites by recombinant tenascin fragments. Spring J, et al. **Cell** 1989 Oct 20;59(2):325–34

Genetic transfer of a functional human interferon alpha receptor into mouse cells: cloning and expression of its cDNA. Uzé G, et al. **Cell** 1990 Jan 26;60(2):225–34

DNA single–strand breaks, double–strand breaks, and crosslinks in rat testicular germ cells: measurements of their formation and repair by alkaline and neutral filter elution. Bradley MO, et al. **Cell Biol Toxicol** 1985 Jun;1(3):181–95

Possible alteration of genomic DNA in specific rat tissues. Yokota H, et al. **Cell Struct Funct** 1989 Dec;14(6):759–67

SINEs and LINEs cluster in distinct DNA fragments of Giemsa band size. Chen TL, et al. **Chromosoma** 1989 Nov; 98(5):309–16

Tissue– and species–specific expression of inhibitory guanine nucleotide–binding proteins. Cloning of a full–length complementary DNA from canine heart [published erratum appears in Circ Res 1989 Dec;65(6):1810] Holmer SR, et al. **Circ Res** 1989 Oct;65(4):1136–40

Inherited quantitative DNA variation in the LPA ("apolipoprotein (a)") gene. Kondo I, et al. **Clin Genet** 1990 Feb;37(2):132–40

DNA analysis of cystic fibrosis genotypes in relatives with equivocal sweat test results. Amos JA, et al. **Clin Invest Med** 1990 Feb;13(1):1–5

The biochemistry and genetics of DNA and anti–DNA antibodies. Stollar BD. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):30–8 (60 ref.)

cDNA cloning of small nuclear and cytoplasmic RNA–associated proteins. van Dam A, et al. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):20–8 (49 ref.)

Chicken growth hormone: cDNA–synthesis and base sequence. Baum D, et al. **Comp Biochem Physiol [B]** 1990; 96(3):491–5

Trypanosoma (Schizotrypanum) cruzi: repetitive DNA sequence evolution in three geographically distinct isolates. Craig SP, et al. **Comp Biochem Physiol [B]** 1990; 95(4):657–62

Mapping DNA by stochastic relaxation: a new approach to fragment sizes. Grigorjev AV, et al. **Comput Appl Biosci** 1990 Apr;6(2):107–11

Searching for tRNA genes in DNA sequences—an IBM microcomputer program. Woźniak P, et al. **Comput Appl Biosci** 1990 Jan;6(1):49–50

Cultivar variability for the presence of plastid DNA in pollen of Pisum sativum L.: implications for plastid transmission. Corriveau JL, et al. **Curr Genet** 1989 Jul;16(1):47–51

Cytochrome oxidase subunit II sequences in Petunia mitochondria: two intron–containing genes and an intron–less pseudogene associated with cytoplasmic male sterility. Pruitt KD, et al. **Curr Genet** 1989 Oct;16(4):281–91

Pseudogenes and short repeated sequences in the rice chloroplast genome. Shimada H, et al. **Curr Genet** 1989 Oct;16(4):293–301

Flow cytometry in the quantitation of DNA aneuploidy and cell proliferation in human disease. Quirke P. **Curr Top Pathol** 1990;82:215–56 (272 ref.)

Precise in situ localization of NCAM, ETS1, and D11S29 on human meiotic chromosomes. Bello MJ, et al. **Cytogenet Cell Genet** 1989;52(1–2):7–10

A somatic cell hybrid mapping panel for regional assignment of human chromosome 13 DNA sequences. Cowell JK, et al. **Cytogenet Cell Genet** 1989;52(1–2):1–6

Report of the DNA committee and catalogs of cloned and mapped genes and DNA polymorphisms. Kidd KK, et al. **Cytogenet Cell Genet** 1989;51(1–4):622–947 (2441 ref.)

Genome comparison in the genus Mus: a study with B1, MIF (mouse interspersed fragment), centromeric, and Y–chromosomal repetitive sequences. Nishioka Y. **Cytogenet Cell Genet** 1989;50(4):195–200

Chromosome banding and DNA replication patterns in bird karyotypes. Schmid M, et al. **Cytogenet Cell Genet** 1989; 52(3–4):139–46

Developmental and genetic aspects of Mutator excision in maize. Levy AA, et al. **Dev Genet** 1989;10(6):520–31

Tissue–specific effects of maize bronze gene promoter mutations induced by Ds1 insertion and excision. Sullivan TD, et al. **Dev Genet** 1989;10(6):412–24

Evidence for dedifferentiation and metaplasia in amphibian limb regeneration from inheritance of DNA methylation. Casimir CM, et al. **Development** 1988 Dec;104(4):657–68

5'–flanking DNA of the human insulin receptor gene and long terminal repeat of mouse mammary tumour virus bind to the same nuclear protein(s). Iwama N, et al. **Diabetologia** 1989 Dec;32(12):877–80

Mouse preproacrosin: cDNA sequence, primary structure and postmeiotic expression in spermatogenesis. Klemm U, et al. **Differentiation** 1990 Feb;42(3):160–6

DNA content and mucosal dysplasia in ulcerative colitis. Flow cytometric analysis in patients with dysplastic or indefinite morphologic changes in the colorectal mucosa. Rutegård J, et al. **Dis Colon Rectum** 1989 Dec; 32(12):1055–9

Highly preferred targets for retrovirus integration. **Dis Markers** 1989 Oct–Dec;7(4):259–60

Human nidogen: complete amino acid sequence and structural domains deduced from cDNAs, and evidence for polymorphism of the gene. Nagayoshi T, et al. **DNA** 1989 Oct;8(8):581–94

cDNA–directed expression of rat P450s IIA1 and IIA2. Catalytic activities toward steroids and xenobiotics and comparison with the enzymes purified from liver. Aoyama T, et al. **Drug Metab Dispos** 1990 May–Jun;18(3):378–82

The ocs–element is a component of the promoters of several T–DNA and plant viral genes. Bouchez D, et al. **EMBO J** 1989 Dec 20;8(13):4197–204

Mutation of either G box or I box sequences profoundly affects expression from the Arabidopsis rbcS–1A promoter. Donald RG, et al. **EMBO J** 1990 Jun;9(6):1717–26

cDNA cloning and sequencing of the protein–tyrosine kinase substrate, ezrin, reveals homology to band 4.1. Gould KL, et al. **EMBO J** 1989 Dec 20;8(13):4133–42

Alpha subunit variants of the human glycine receptor: primary structures, functional expression and chromosomal localization of the corresponding genes. Grenningloh G, et al. **EMBO J** 1990 Mar;9(3):771–6

Cloning and sequence analysis of beta–4 cDNA: an integrin subunit that contains a unique 118 kd cytoplasmic domain. Hogervorst F, et al. **EMBO J** 1990 Mar;9(3):765–70

Transcriptional regulation and DNA methylation in plastids during transitional conversion of chloroplasts to chromoplasts. Kobayashi H, et al. **EMBO J** 1990 Feb; 9(2):307–13

The beta–globin dominant control region: hypersensitive site 2. Philipsen S, et al. **EMBO J** 1990 Jul;9(7):2159–67

Saturation mutagenesis of the DNA site bound by the small carboxy–terminal domain of gamma delta resolvase. Rimphanitchayakit V, et al. **EMBO J** 1990 Mar;9(3):719–25

A synthetic homeodomain binding site acts as a cell type specific, promoter specific enhancer in Drosophila embryos. Vincent JP, et al. **EMBO J** 1990 Aug;9(8):2573–8

Constant and hypervariable regions in conotoxin propeptides. Woodward SR, et al. **EMBO J** 1990 Apr;9(4):1015–20

Estradiol metabolism by complementary deoxyribonucleic acid–expressed human cytochrome P450s. Aoyama T, et al. **Endocrinology** 1990 Jun;126(6):3101–6

Expression of atypical and classical insulin receptors in Chinese hamster ovary cells transfected with cloned cDNA for the human insulin receptor. Jonas HA, et al. **Endocrinology** 1990 Sep;127(3):1301–9

Molecular cloning and expression of rat placental lactogen–I complementary deoxyribonucleic acid. Robertson MC, et al. **Endocrinology** 1990 Aug;127(2):702–10

Linkage of c–Harvey–ras–1 and INS DNA markers to unipolar depression and alcoholism is ruled out in 18 families. Wesner RB, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):356–60

Molecular cloning and nucleotide sequence of full–length cDNA for ascorbate oxidase from cultured pumpkin cells. Esaka M, et al. **Eur J Biochem** 1990 Aug 17;191(3):537–41

Reduced transcription of mitochondrial DNA in the senescent rat. Tissue dependence and effect of L–carnitine. Gadaleta MN, et al. **Eur J Biochem** 1990 Feb 14; 187(3):501–6

cDNAs from neurosecretory cells of brains of Locusta migratoria (Insecta, Orthoptera) encoding a novel member of the superfamily of insulins. Lagueux M, et al. **Eur J Biochem** 1990 Jan 12;187(1):249–54

Molecular cloning of a cDNA for the smallest nuclear–encoded subunit of sweet potato cytochrome c oxidase. Analysis with the cDNA of the structure and import into mitochondria of the subunit. Nakagawa T, et al. **Eur J Biochem** 1990 Aug 17;191(3):557–61

Isolation and characterisation of a cDNA clone for a chlorophyll synthesis enzyme from Euglena gracilis. The chloroplast enzyme hydroxymethylbilane synthase (porphobilinogen deaminase) is synthesised with a very long transit peptide in Euglena. Sharif AL, et al. **Eur J Biochem** 1989 Sep 15;184(2):353–9

cDNA cloning of cytochrome P–450 related to P–450p–2 from the cDNA library of human placenta. Gene structure and expression. Yokotani N, et al. **Eur J Biochem** 1990 Jan 12;187(1):23–9

DNA polymorphisms of the alpha 1–antitrypsin gene region in patients with chronic obstructive pulmonary disease. Poller W, et al. **Eur J Clin Invest** 1990 Feb;20(1):1–7

Identification of a highly abundant cDNA isolated from senescent WI–38 cells. Giordano T, et al. **Exp Cell Res** 1989 Dec;185(2):399–406

Replication of the dihydrofolate reductase genes on double minute chromosomes in a murine cell line. Tlsty TD, et al. **Exp Cell Res** 1990 May;188(1):164–8

Association between a 10 kb Pvu II restriction fragment of genomic DNA with the hemochromatosis gene. Lucotte G, et al. **Exp Clin Immmunogenet** 1986;3(4):219–23

Erythropoiesis in murine long–term marrow cultures following transfer of the erythropoietin cDNA into marrow stromal cells. Corey CA, et al. **Exp Hematol** 1990 Mar;18(3):201–4

Mutations in familial Creutzfeldt–Jakob disease and Gerstmann–Sträussler–Scheinker's syndrome. Goldgaber D, et al. **Exp Neurol** 1989 Nov;106(2):204–6

Plasmodium falciparum: DNA probe diagnosis of malaria in Kenya. Barker RH Jr, et al. **Exp Parasitol** 1989 Oct; 69(3):226–33

On the evolutionary history of the circumsporozoite protein in plasmodia. di Giovanni L, et al. **Exp Parasitol** 1990 May; 70(4):373–81

Eimeria acervulina: cloning of a cDNA encoding an immunogenic region of several related merozoite surface and rhoptry proteins. Jenkins MC, et al. **Exp Parasitol** 1990 Apr;70(3):353–62

Molecular biology of human lymphatic filariasis. Rajan TV. **Exp Parasitol** 1990 May;70(4):500–3 (16 ref.)

Babesia bovis: gene isolation and characterization using a mung bean nuclease–derived expression library. Tripp CA, et al. **Exp Parasitol** 1989 Oct;69(3):211–25

Schistosoma mansoni tropomyosin: cDNA characterization, sequence, expression, and gene product localization. Xu H, et al. **Exp Parasitol** 1989 Nov;69(4):373–92

Primary structure of rabbit skeletal muscle glycogen synthase deduced from cDNA clones. Zhang WM, et al. **FASEB J** 1989 Nov;3(13):2532–6

DNA fingerprints revealing common and divergent human DNA methylation patterns. Berneman ZN, et al. **FEBS Lett** 1989 Sep 25;255(2):226–30

DNA methylation inhibits transcription by RNA polymerase III of a tRNA gene, but not of a 5S rRNA gene. Besser D, et al. **FEBS Lett** 1990 Sep 3;269(2):358–62

Cloning and sequence analysis of a cDNA for human glycosylasparaginase. A single gene encodes the subunits of this lysosomal amidase. Fisher KJ, et al. **FEBS Lett** 1990 Sep 3;269(2):440–4

Nucleotide sequence determination of chicken glucagon precursor cDNA. Chicken preproglucagon does not contain glucagon–like peptide II. Hasegawa S, et al. **FEBS Lett** 1990 May 7;264(1):117–20

Molecular cloning of a cDNA encoding aldosterone synthase cytochrome P–450 in rat adrenal cortex. Imai M, et al. **FEBS Lett** 1990 Apr 24;263(2):299–302

A cysteine proteinase cDNA from Trypanosoma brucei predicts an enzyme with an unusual C–terminal extension. Mottram JC, et al. **FEBS Lett** 1989 Dec 4;258(2):211–5

Molecular cloning of cDNA for cholesterol 7 alpha-hydroxylase from rat liver microsomes. Nucleotide sequence and expression. Noshiro M, et al. **FEBS Lett** 1989 Oct 23;257(1):97-100

Molecular cloning and predicted full-length amino acid sequence of the type I beta isozyme of cGMP-dependent protein kinase from human placenta. Tissue distribution and developmental changes in rat. Sandberg M, et al. **FEBS Lett** 1989 Sep 25;255(2):321-9

Expression of the cDNA encoding lipocortin-like 39 kDa protein of guinea pig neutrophils in yeast. Purification and biological characterization. Sato EF, et al. **FEBS Lett** 1989 Sep 25;255(2):231-6

Chromosomal reallocation of the chicken c-myb locus and organization of 3'-proximal coding exons. Soret J, et al. **FEBS Lett** 1990 Apr 24;263(2):254-60

A putative protein of a growth specific cDNA from BALB/c-3T3 cells is highly similar to the extracellular portion of mouse interleukin 1 receptor. Tominaga S. **FEBS Lett** 1989 Dec 4;258(2):301-4

Cloning and sequence analysis of cDNA for precursor of a crustacean hyperglycemic hormone. Weidemann W, et al. **FEBS Lett** 1989 Oct 23;257(1):31-4

Isolation of the DNA minisatellite probe MZ 1.3 and its application to DNA 'fingerprinting' analysis. Schacker U, et al. **Forensic Sci Int** 1990 Feb;44(2-3):209-24

Cloning of a cDNA associated with acute and chronic hepatitis C infection generated from patients serum RNA. Arima T, et al. **Gastroenterol Jpn** 1989 Oct;24(5):540-4

A lambda gt11-cDNA clone specific for chronic hepatitis C generated from pooled serum presumably infected by hepatitis C virus. Arima T, et al. **Gastroenterol Jpn** 1989 Oct;24(5):545-8

Cloning of cDNA for a novel mouse membrane glycoprotein (gp42): shared identity to histocompatibility antigens, immunoglobulins and neural-cell adhesion molecules. Altruda F, et al. **Gene** 1989 Dec 28;85(2):445-51

Sequence and factor requirements for faithful in vitro transcription of human 7SL DNA. Bredow S, et al. **Gene** 1990 Feb 14;86(2):217-25

Directional antisense and sense cDNA cloning using Epstein-Barr virus episomal expression vectors [published erratum appears in Gene 1989 Nov 30;83(2):395] Groger RK, et al. **Gene** 1989 Sep 30;81(2):285-94

A general and rapid mutagenesis method using polymerase chain reaction. Herlitze S, et al. **Gene** 1990 Jul 2;91(1):143-7

Cloning and cDNA sequence of the beta-subunit component of human pyruvate dehydrogenase complex. Ho L, et al. **Gene** 1990 Feb 14;86(2):297-302

Generation of a full-length human perinatal myosin heavy-chain-encoding cDNA. Karsch-Mizrachi I, et al. **Gene** 1990 May 14;89(2):289-94

Cloning and sequence analysis of the genomic DNA fragment encoding oryzacystatin. Kondo H, et al. **Gene** 1989 Sep 30;81(2):259-65

Nucleotide sequence analysis of novel junctions near an unstable integrated plasmid in human cells. Murnane JP, et al. **Gene** 1989 Dec 7;84(1):201-5

Construction and replication of an adeno-associated virus expression vector that contains human beta-globin cDNA. Ohi S, et al. **Gene** 1990 May 14;89(2):279-82

Cloning, expression and sequence homologies of cDNA for human gamma enolase. Oliva D, et al. **Gene** 1989 Jul 15; 79(2):355-60

Differential screening of a cDNA library with cDNA probes amplified in a heterologous host: isolation of murine GRP78 (BiP) and other serum-regulated low-abundance mRNAs. Parfett CL, et al. **Gene** 1989 Oct 30;82(2):291-300

Sequence similarities among monkey ori-enriched (ors) fragments. Rao BS, et al. **Gene** 1990 Mar 15;87(2):233-42

Detection and molecular cloning of highly repeated DNA in the sea cucumber sperm. Sainz J, et al. **Gene** 1989 Aug 1;80(1):57-64

Rapid identification of DNA fragments containing promoters for RNA polymerase II. Shaw PH, et al. **Gene** 1989 Dec 14;84(2):371-81

Genome walking by single-specific-primer polymerase chain reaction: SSP-PCR. Shyamala V, et al. **Gene** 1989 Dec 7;84(1):1-8

Isolation by polymerase chain reaction of a cDNA whose product partially complements the ultraviolet sensitivity of xeroderma pigmentosum group C cells. Teitz T, et al. **Gene** 1990 Mar 15;87(2):295-8

Amplification and direct nucleotide sequencing of cDNA from the lysate of low numbers of diploid human cells. Yang JL, et al. **Gene** 1989 Nov 30;83(2):347-54

Precise excision of telomere-bearing transposons during Oxytricha fallax macronuclear development. Hunter DJ, et al. **Genes Dev** 1989 Dec;3(12B):2101-12

Sequence EditingAligner: a multiple sequence editor and aligner. Barber AM, et al. **Genet Anal Tech Appl** 1990 Apr; 7(2):39-45

Linkage disequilibrium between DNA markers at the low-density lipoprotein receptor gene. Hegele RA, et al. **Genet Epidemiol** 1990;7(1):69-81

A population genetical model for sequence evolution under multiple types of mutation. Iizuka M. **Genet Res** 1989 Dec; 54(3):231-7

cDNA sequence and chromosomal localization of the mouse parvalbumin gene, Pva. Zöhlke C, et al. **Genet Res** 1989 Aug;54(1):37-43

Mitochondrial and nuclear gene dynamics of introduced populations of Lepomis macrochirus. Chapman RW. **Genetics** 1989 Oct;123(2):399-404

Parental analysis of introgressive hybridization between African and European honeybees using nuclear DNA RFLPs. Hall HG. **Genetics** 1990 Jul;125(3):611-21

The effect of change in population size on DNA polymorphism. Tajima F. **Genetics** 1989 Nov; 123(3):597-601

DNA polymorphism in a subdivided population: the expected number of segregating sites in the two-subpopulation model. Tajima F. **Genetics** 1989 Sep;123(1):229-40

Relationship between DNA polymorphism and fixation time. Tajima F. **Genetics** 1990 Jun;125(2):447-54

Cloning and characterization of a tandemly repeated DNA sequence in the crane family (Gruidae). Chen ZQ, et al. **Genome** 1989 Aug;32(4):646-54

Identifying a single-copy DNA sequence associated with the expression of a heterochromatic gene, the light locus of Drosophila melanogaster. Devlin RH, et al. **Genome** 1990 Jun;33(3):405-15

Genomic arrangement of repeated PS700 elements in the nematode Panagrellus silusiae. Retterath MA, et al. **Genome** 1990 Apr;33(2):164-9

Genomic organization, evolution, and structural peculiarities of highly repetitive DNA of Hordeum vulgare. Vershinin AV, et al. **Genome** 1990 Jun;33(3):441-9

Mathematical analysis of DNA sequences. Weir BS. **Genome** 1989;31(2):1093-4

Comprehensive detection of single base changes in human genomic DNA using denaturing gradient gel electrophoresis and a GC clamp. Abrams ES, et al. **Genomics** 1990 Aug;7(4):463-75

Chromosomal mapping and nucleotide sequence of a human DNA autonomously replicating sequence. Aguinaga M, et al. **Genomics** 1989 Oct;5(3):605-11

The large DNA insert cloning workshop. Cook-Deegan RM, et al. **Genomics** 1990 Aug;7(4):654-60

Molecular cloning of DNA from specific chromosomal regions by microdissection and sequence-independent amplification of DNA. Johnson DH. **Genomics** 1990 Feb; 6(2):243-51

Y chromosome DNA haplotyping suggests that most European and Asian men are descended from one of two males. Oakey R, et al. **Genomics** 1990 Jul;7(3):325-30

Rapid and sensitive detection of point mutations and DNA polymorphisms using the polymerase chain reaction. Orita M, et al. **Genomics** 1989 Nov;5(4):874-9

Organization of DYZ2 repetitive DNA on the human Y chromosome. Schmid M, et al. **Genomics** 1990 Feb; 6(2):212-8

The proximity of DNA sequences in interphase cell nuclei is correlated to genomic distance and permits ordering of cosmids spanning 250 kilobase pairs. Trask B, et al. **Genomics** 1989 Nov;5(4):710-7

Complementary deoxyribonucleic acid cloning of an mRNA encoding transforming growth factor-beta 2 from chicken embryo chondrocytes. Jakowlew SB, et al. **Growth Factors** 1990;2(2-3):123-33

Flow cytometric DNA ploidy analysis of ovarian granulosa cell tumors. Chadha S, et al. **Gynecol Oncol** 1990 Feb; 36(2):240-5

Human endogenous retrovirus-like sequences. Brack-Werner R, et al. **Hamatol Bluttransfus** 1989;32:464-77 (67 ref.)

The use of in situ hybridization for detection of loss of the Y chromosome in males with pancytopenia. Przepiorka D, et al. **Hematol Pathol** 1989;3(4):177-83

Molecular cloning of human preproacrosin cDNA. Adham IM, et al. **Hum Genet** 1990 Jan;84(2):125-8

The gene encoding human low-molecular weight insulin-like growth-factor binding protein (IGF-BP25): regional localization to 7p12-p13 and description of a DNA polymorphism. Alitalo T, et al. **Hum Genet** 1989 Nov; 83(4):335-8

Isolation of a cDNA clone encoding a novel form of granzyme B from human NK cells and mapping to chromosome 14. Dahl CA, et al. **Hum Genet** 1990 Apr; 84(5):465-70

Linkage disequilibrium between cystic fibrosis locus and three DNA markers, XV-2c, KM19 and MP6d-9, in 43 Spanish families. Fernández E, et al. **Hum Genet** 1990 Mar; 84(4):379-80

The analysis of hypervariable DNA profiles: problems associated with the objective determination of the probability of a match. Gill P, et al. **Hum Genet** 1990 Jun; 85(1):75-9

Regional assignment of 41 human DNA fragments on chromosome 7 by means of a somatic cell hybrid panel. Jobs A, et al. **Hum Genet** 1990 Jan;84(2):147-50

Different haplotypes for cystic fibrosis-linked DNA polymorphisms in Polish and Dutch populations. Maciejko D, et al. **Hum Genet** 1989 Oct;83(3):220-2

DNA fingerprinting with the oligonucleotide probe (CAC)5/(GTG)5: somatic stability and germline mutations. Nürnberg P, et al. **Hum Genet** 1989 Dec;84(1):75-8

Hb D Los Angeles (D-Punjab) and Hb Presbyterian: analysis of the defect at the DNA level. Schnee J, et al. **Hum Genet** 1990 Mar;84(4):365-7

Attempt to calculate the allele frequency distribution of a TaqI RFLP detected by the highly polymorphic probe YNH24. van Eede PH, et al. **Hum Genet** 1990 Mar; 84(4):376-8

Isolation and regional localisation of DNA sequences from a human chromosome 11-specific cosmid library. Wadey RB, et al. **Hum Genet** 1990 Apr;84(5):417-23

Identification of complex DNA polymorphisms based on variable number of tandem repeats (VNTR) and restriction site polymorphism. Waye JS, et al. **Hum Genet** 1990 Feb; 84(3):223-7

DNA typing for class II HLA antigens with allele-specific or group-specific amplification. II. Typing for alleles of the DRw52-associated group. Fernandez-Vina M, et al. **Hum Immunol** 1990 May;28(1):51-64

Gene mapping on chorionic villi chromosomes by hybridization in situ: localization of cholinesterase cDNA binding sites to chromosomes 3q21, 3q26-ter and 16q21. Zakut H, et al. **Hum Reprod** 1989 Nov;4(8):941-6

Cloning and sequencing of a cDNA encoding the precursor to the 24 kDa iron-sulfur protein of human mitochondrial NADH dehydrogenase. Toda H, et al. **Int J Biochem** 1989; 21(10):1161-8

A short sequence, within the amino acid tandem repeat of a cancer-associated mucin, contains immunodominant epitopes. Burchell J, et al. **Int J Cancer** 1989 Oct 15; 44(4):691-6

Fine mapping of a putative rd cDNA and its co-segregation with rd expression. Danciger M, et al. **Invest Ophthalmol Vis Sci** 1990 Aug;31(8):1427-32

Molecular cloning and nucleotide sequence of cDNA encoding the entire precursor of rat mitochondrial acetoacetyl-CoA thiolase. Fukao T, et al. **J Biochem (Tokyo)** 1989 Aug;106(2):197-204

Structure of cDNA coding for rat platelet phospholipase A2. Komada M, et al. **J Biochem (Tokyo)** 1989 Oct;106(4):545-7

The primary structure of porcine liver acylamino acid-releasing enzyme deduced from cDNA sequences. Mitta M, et al. **J Biochem (Tokyo)** 1989 Oct;106(4):548-51

Molecular cloning and nucleotide sequence of a cDNA encoding Euglena gracilis cytochrome c1. Mukai K, et al. **J Biochem (Tokyo)** 1989 Sep;106(3):479-82

Molecular cloning of cDNA encoding potato amyloplast alpha-glucan phosphorylase and the structure of its transit peptide. Nakano K, et al. **J Biochem (Tokyo)** 1989 Oct; 106(4):691-5

Cloning of Xenopus RCC1 cDNA, a homolog of the human RCC1 gene: complementation of tsBN2 mutation and identification of the product. Nishitani H, et al. **J Biochem (Tokyo)** 1990 Feb;107(2):228-35

Molecular cloning and characterization of cDNAs coding for apopolysialoglycoproteins in cherry salmon (Oncorhynchus masou) eggs. Sorimachi H, et al. **J Biochem (Tokyo)** 1990 Jan;107(1):61-7

Molecular cloning of a cDNA encoding rat NADH-cytochrome b5 reductase and the corresponding gene. Zenno S, et al. **J Biochem (Tokyo)** 1990 Jun; 107(6):810-6

Identification of membrane anchoring site of human renal dipeptidase and construction and expression of a cDNA for its secretory form. Adachi H, et al. **J Biol Chem** 1990 Sep 5;265(25):15341-5

Cloning and expression of rat cDNA encoding corticosteroid 11 beta-dehydrogenase. Agarwal AK, et al. **J Biol Chem** 1989 Nov 15;264(32):18939-43

Cloning of a cDNA encoding adenylosuccinate lyase by functional complementation in Escherichia coli. Aimi J, et al. **J Biol Chem** 1990 Jun 5;265(16):9011-4

Isolation and characterization of the human hepatic lipase gene. Ameis D, et al. **J Biol Chem** 1990 Apr 25; 265(12):6552-5

The primary structure of rat liver glycogen synthase deduced by cDNA cloning. Absence of phosphorylation sites 1a and 1b. Bai G, et al. **J Biol Chem** 1990 May 15; 265(14):7843-8

cDNA cloning and chromosomal assignment of the gene encoding endothelin 3. Bloch KD, et al. **J Biol Chem** 1989 Oct 25;264(30):18156-61

Functional analysis of cis-acting DNA sequences controlling transcription of the human type I collagen genes. Boast S, et al. **J Biol Chem** 1990 Aug 5;265(22):13351-6

cDNA cloning, functional expression, and mRNA tissue distribution of a third organellar Ca2+ pump. Burk SE, et al. **J Biol Chem** 1989 Nov 5;264(31):18561-8

Human glucocorticoid receptor cDNA contains sequences sufficient for receptor down-regulation. Burnstein KL, et al. **J Biol Chem** 1990 May 5;265(13):7284-91

Cell-free transcription and translation of Na,K-ATPase alpha and beta subunit cDNAs. Cayanis E, et al. **J Biol Chem** 1990 Jul 5;265(19):10829-35

The cDNA sequence of mouse LAMP-2. Evidence for two classes of lysosomal membrane glycoproteins. Cha Y, et al. **J Biol Chem** 1990 Mar 25;265(9):5008-13

Interferons as gene activators. Indications for repeated gene duplication during the evolution of a cluster of interferon-activatable genes on murine chromosome 1. Choubey D, et al. **J Biol Chem** 1989 Oct 15;264(29):17182-9

Isolation and DNA sequence of a gene encoding alpha-trichosanthin, a type I ribosome-inactivating protein. Chow TP, et al. **J Biol Chem** 1990 May 25;265(15):8670-4

The complete cDNA and amino acid sequence of bovine fetuin. Its homology with alpha 2HS glycoprotein and relation to other members of the cystatin superfamily. Dziegielewska KM, et al. **J Biol Chem** 1990 Mar 15; 265(8):4354-7

Cloning and sequence analysis of the cDNA for human placental NAD(+)-dependent 15-hydroxyprostaglandin

dehydrogenase. Ensor CM, et al. J Biol Chem 1990 Sep 5;265(25):14888–91

Spinach carbonic anhydrase primary structure deduced from the sequence of a cDNA clone. Fawcett TW, et al. J Biol Chem 1990 Apr 5;265(10):5414–7

Human bone sialoprotein. Deduced protein sequence and chromosomal localization. Fisher LW, et al. J Biol Chem 1990 Feb 5;265(4):2347–51

Molecular cloning of cDNA encoding a 55-kDa multifunctional thyroid hormone binding protein of skeletal muscle sarcoplasmic reticulum. Fliegel L, et al. J Biol Chem 1990 Sep 15;265(26):15496–502

Isolation and analysis of a rat genomic clone containing a long terminal repeat with high similarity to the oncomodulin mRNA leader sequence. Furter CS, et al. J Biol Chem 1989 Nov 5;264(31):18276–9

Mouse "protective protein". cDNA cloning, sequence comparison, and expression. Galjart NJ, et al. J Biol Chem 1990 Mar 15;265(8):4678–84

High levels of expression of full length human pro-alpha 2(V) collagen cDNA in pro-alpha 2(V)-deficient hamster cells. Greenspan DS, et al. J Biol Chem 1989 Dec 5; 264(34):20683–7

Amplified expression of tumor necrosis factor receptor in cells transfected with Epstein-Barr virus shuttle vector cDNA libraries. Heller RA, et al. J Biol Chem 1990 Apr 5;265(10):5708–17

Molecular cloning and nucleotide sequence of cDNA encoding the rat kidney S-adenosylmethionine synthetase. Horikawa S, et al. J Biol Chem 1990 Aug 15; 265(23):13683–6

Characterization of two cDNA clones for pyruvate dehydrogenase E1 b-ta subunit and its regulation in tricarboxylic acid cycle-deficient fibroblast. Huh TL, et al. J Biol Chem 1990 Aug 5;265(22):13320–6

Molecular cloning and sequence analysis of cDNA encoding the macrophage lectin specific for galactose and N-acetylgalactosamine. Ii M, et al. J Biol Chem 1990 Jul 5;265(19):11295–8

Molecular cloning and sequence analysis of a cDNA encoding a porcine kidney renin-binding protein. Inoue H, et al. J Biol Chem 1990 Apr 25;265(12):6556–61

Concerted evolution of ruminant stomach lysozymes. Characterization of lysozyme cDNA clones from sheep and deer. Irwin DM, et al. J Biol Chem 1990 Mar 25; 265(9):4944–52

Cell-type specific and differential regulation of the human metallothionein genes. Correlation with DNA methylation and chromatin structure. Jahroudi N, et al. J Biol Chem 1990 Apr 15;265(11):6506–11

Human facilitative glucose transporters. Isolation, functional characterization, and gene localization of cDNAs encoding an isoform (GLUT5) expressed in small intestine, kidney, muscle, and adipose tissue and an unusual glucose transporter pseudogene-like sequence (GLUT6). Kayano T, et al. J Biol Chem 1990 Aug 5;265(22):13276–82

Molecular cloning, transcriptional characterization, and sequencing of cDNA encoding the H-protein of the mitochondrial glycine decarboxylase complex in peas. Kim Y, et al. J Biol Chem 1990 Jan 15;265(2):848–53

Construction and analysis of parallel and antiparallel Holliday junctions. Kimball A, et al. J Biol Chem 1990 Sep 5; 265(25):15348

Construction and analysis of parallel and antiparallel Holliday junctions [published erratum appears in J Biol Chem 1990 Sep 5;265(25):15348] Kimball A, et al. J Biol Chem 1990 Apr 25;265(12):6544–7

Isolation and characterization of a cDNA clone encoding rat nucleoside diphosphate kinase. Kimura N, et al. J Biol Chem 1990 Sep 15;265(26):15744–9

Primary structure of a precursor for the delta-subunit of sweet potato mitochondrial F1-ATPase deduced from full length cDNA. Kimura T, et al. J Biol Chem 1990 Apr 15;265(11):6079–85

Identification of a novel human glycophorin, glycophorin E, by isolation of genomic clones and complementary DNA clones utilizing polymerase chain reaction. Kudo S, et al. J Biol Chem 1990 Jan 15;265(2):1102–10

cDNA cloning and tissue distribution of mRNAs for two proteins that are related to the band 3 Cl-/HCO3- exchanger. Kudrycki KE, et al. J Biol Chem 1990 Jan 5; 265(1):462–71

Molecular characterization of the murine interferon gamma receptor cDNA. Kumar CS, et al. J Biol Chem 1989 Oct 25;264(30):17939–46

Frameshift and nonsense mutations in a human genomic sequence homologous to a murine UDP-Gal:beta-D-Gal(1,4)-D-GlcNAc alpha(1,3)-galactosyltransferase cDNA. Larsen RD, et al. J Biol Chem 1990 Apr 25;265(12):7055–61

Mitochondrial ATP synthase. cDNA cloning, amino acid sequence, overexpression, and properties of the rat liver alpha subunit. Lee JH, et al. J Biol Chem 1990 Mar 15; 265(8):4664–9

Amino acid and cDNA sequence of bovine phosducin, a soluble phosphoprotein from photoreceptor cells. Lee RH, et al. J Biol Chem 1990 Sep 15;265(26):15867–73

Bovine dopamine beta-hydroxylase cDNA. Complete coding sequence and expression in mammalian cells with vaccinia virus vector. Lewis EJ, et al. J Biol Chem 1990 Jan 15; 265(2):1021–8

Isolation and characterization of the cDNAs encoding two isoforms of subunit CIX of bovine cytochrome c oxidase. Lightowlers R, et al. J Biol Chem 1990 Feb 15; 265(5):2677–81

Cloning and characterization of human pancreatic lipase cDNA. Lowe ME, et al. J Biol Chem 1989 Nov 25; 264(33):20042–8

Identification of major autolytic cleavage sites in the regulatory subunit of vascular calpain II. A comparison of partial amino-terminal sequences to deduced sequence from complementary DNA. McCelland P, et al. J Biol Chem 1989 Oct 15;264(29):17428–31

The cDNA sequence and expression of a variant 17 beta-hydroxysteroid UDP-glucuronosyltransferase. Mackenzie PI. J Biol Chem 1990 May 25;265(15):8699–703

Expression of chimeric cDNAs in cell culture defines a region of UDP glucuronosyltransferase involved in substrate selection. Mackenzie PI. J Biol Chem 1990 Feb 25;265(6):3432–5

Analysis of glycosaminoglycan substitution in decorin by site-directed mutagenesis. Mann DM, et al. J Biol Chem 1990 Mar 25;265(9):5317–23

Generation of diversity in nonerythroid spectrins. Multiple polypeptides are predicted by sequence analysis of cDNAs encompassing the coding region of human nonerythroid alpha-spectrin. Moon RT, et al. J Biol Chem 1990 Mar 15;265(8):4427–33

Isolation and expression of a human ornithine decarboxylase gene. Moshier JA, et al. J Biol Chem 1990 Mar 25; 265(9):4884–92

Two distinct cDNAs for human IMP dehydrogenase. Natsumeda Y, et al. J Biol Chem 1990 Mar 25;265(9):5292–5

Cloning and expression of cDNAs for polymorphic and monomorphic arylamine N-acetyltransferases from human liver. Ohsako S, et al. J Biol Chem 1990 Mar 15; 265(8):4630–4

Quail (Coturnix japonica) protamine, full-length cDNA sequence, and the function and evolution of vertebrate protamines. Oliva R, et al. J Biol Chem 1989 Oct 25; 264(30):17627–30

Cyclic AMP-dependent and -independent regulation of cholesterol side chain cleavage cytochrome P-450 (P-450scc) in rat ovarian granulosa cells and corpora lutea. cDNA and deduced amino acid sequence of rat P-450scc. Oonk RB, et al. J Biol Chem 1989 Dec 25;264(36):21934–42

The A20 cDNA induced by tumor necrosis factor alpha encodes a novel type of zinc finger protein. Opipari AW Jr, et al. J Biol Chem 1990 Sep 5;265(25):14705–8

Structure of the gene encoding the human leukocyte adhesion molecule-1 (TQ1, Leu-8) of lymphocytes and neutrophils. Ord DC, et al. J Biol Chem 1990 May 15;265(14):7760–7

Molecular cloning of cDNA encoding the Ca2+ release channel (ryanodine receptor) of rabbit cardiac muscle sarcoplasmic reticulum. Otsu K, et al. J Biol Chem 1990 Aug 15;265(23):13472–83

cDNA cloning and immunological characterization of the rye grass allergen Lol p I. Perez M, et al. J Biol Chem 1990 Sep 25;265(27):16210–5

Phylogenetic conservation of arylsulfatases. cDNA cloning and expression of human arylsulfatase B. Peters C, et al. J Biol Chem 1990 Feb 25;265(6):3374–81

The involucrin gene of the galago. Existence of a correction process acting on its segment of repeats. Phillips M, et al. J Biol Chem 1990 May 15;265(14):7804–7

Oleosin KD 18 on the surface of oil bodies in maize. Genomic and cDNA sequences and the deduced protein structure. Qu RD, et al. J Biol Chem 1990 Feb 5;265(4):2238–43

cDNA and gene analyses imply a novel structure for a rat carcinoembryonic antigen-related protein. Rebstock S, et al. J Biol Chem 1990 May 15;265(14):7872–9

Characterization of a cDNA clone encoding a Brassica napus 12 S protein (cruciferin) subunit. Relationship between precursors and mature chains. Rödin J, et al. J Biol Chem 1990 Feb 15;265(5):2720–3

Isolation, characterization, and expression in Escherichia coli of a cDNA encoding rat heme oxygenase-2. Rotenberg MO, et al. J Biol Chem 1990 May 5;265(13):7501–6

Regulation of fibrinogen assembly. Transfection of Hep G2 cells with B beta cDNA specifically enhances synthesis of the three component chains of fibrinogen. Roy SN, et al. J Biol Chem 1990 Apr 15;265(11):6389–93

Rabbit small intestinal trehalase. Purification, cDNA cloning, expression, and verification of glycosylphosphatidylinositol anchoring. Ruf J, et al. J Biol Chem 1990 Sep 5; 265(25):15034–9

cDNA cloning and chromosomal assignment of the human O6-methylguanine-DNA methyltransferase. cDNA expression in Escherichia coli and gene expression in human cells. Rydberg B, et al. J Biol Chem 1990 Jun 5; 265(16):9563–9

The complete cDNA and polypeptide sequences of human erythroid alpha-spectrin. Sahr KE, et al. J Biol Chem 1990 Mar 15;265(8):4434–43

Molecular cloning and expression of the cDNA for a novel alpha 1-adrenergic receptor subtype. Schwinn DA, et al. J Biol Chem 1990 May 15;265(14):8183–9

Cloning and expression of a rat neuromedin K receptor cDNA. Shigemoto R, et al. J Biol Chem 1990 Jan 15; 265(2):623–8

Mammalian carbamyl phosphate synthetase (CPS). DNA sequence and evolution of the CPS domain of the Syrian hamster multifunctional protein CAD. Simmer JP, et al. J Biol Chem 1990 Jun 25;265(18):10395–402

Purification, characterization, and cDNA cloning of a novel metallothionein-like, cadmium-binding protein from Caenorhabditis elegans. Slice LW, et al. J Biol Chem 1990 Jan 5;265(1):256–63

A ribosomal protein is encoded in the chloroplast DNA in a lower plant but in the nucleus in angiosperms. Isolation of the spinach L21 protein and cDNA clone with transit and an unusual repeat sequence. Smooker PM, et al. J Biol Chem 1990 Sep 25;265(27):16699–703

Stop-transfer activity of hydrophobic sequences depends on the translation system. Spiess M, et al. J Biol Chem 1989 Nov 15;264(32):19117–24

Molecular cloning and expression of cDNA encoding a peripheral-type benzodiazepine receptor. Sprengel R, et al. J Biol Chem 1989 Dec 5;264(34):20415–21

The human embryonic myosin heavy chain. Complete primary structure reveals evolutionary relationships with other developmental isoforms. Stedman HH, et al. J Biol Chem 1990 Feb 25;265(6):3568–76

Structure and function of the promoter of the carrot V-type H(+)-ATPase catalytic subunit gene. Struve I, et al. J Biol Chem 1990 May 15;265(14):7927–32

The third calmodulin family protein in Tetrahymena. Cloning of the cDNA for Tetrahymena calcium-binding protein of 23 kDa (TCBP-23). Takemasa T, et al. J Biol Chem 1990 Feb 15;265(5):2514–7

Isolation, characterization, and expression in Escherichia coli of two murine Mu class glutathione S-transferase cDNAs homologous to the rat subunits 3 (Yb1) and 4 (Yb2). Townsend AJ, et al. J Biol Chem 1989 Dec 25; 264(36):21582–90

Insertion of L1 elements into sites that can form non-B DNA. Interactions of non-B DNA-forming sequences. Usdin K, et al. J Biol Chem 1989 Dec 5;264(34):20736–43

Left-handed Z-DNA and intramolecular triplex formation at the site of an unequal sister chromatid exchange. Weinreb A, et al. J Biol Chem 1990 Jan 25;265(3):1352–9

Mitochondrial phosphoenolpyruvate carboxykinase from the chicken. Comparison of the cDNA and protein sequences with the cytosolic isozyme. Weldon SL, et al. J Biol Chem 1990 May 5;265(13):7308–17

cDNA and gene sequence of Manduca sexta arylphorin, an aromatic amino acid-rich larval serum protein. Homology to arthropod hemocyanins. Willott E, et al. J Biol Chem 1989 Nov 15;264(32):19052–9

Isolation and characterization of a novel, developmentally regulated proteinase inhibitor I protein and cDNA from the fruit of a wild species of tomato. Wingate VP, et al. J Biol Chem 1989 Oct 25;264(30):17734–8

The cDNA sequence of mouse Pgp-1 and homology to human CD44 cell surface antigen and proteoglycan core/link proteins. Wolffe EJ, et al. J Biol Chem 1990 Jan 5;265(1):341–7

Targeting genes: delivery and persistent expression of a foreign gene driven by mammalian regulatory elements in vivo. Wu CH, et al. J Biol Chem 1989 Oct 15; 264(29):16985–7

Cloning and characterization of cDNA for mitochondrial GTP:AMP phosphotransferase of bovine liver. Yamada M, et al. J Biol Chem 1989 Nov 15;264(32):19192–9

Cloning and characterization of DNA complementary to human UDP-GalNAc: Fuc alpha 1——2Gal alpha 1——3GalNAc transferase (histo-blood group A transferase) mRNA. Yamamoto F, et al. J Biol Chem 1990 Jan 15;265(2):1146–51

Expression and characterization of calmodulin-dependent protein kinase II from cloned cDNAs in Chinese hamster ovary cells. Yamauchi T, et al. J Biol Chem 1989 Nov 15;264(32):19108–16

Molecular characterization of a functional cDNA for rat substance P receptor. Yokota Y, et al. J Biol Chem 1989 Oct 25;264(30):17649–52

Two forms of omega-hydroxylase toward prostaglandin A and laurate. cDNA cloning and their expression. Yokotani N, et al. J Biol Chem 1989 Dec 25;264(36):21665–9

Localization of DNA protein-binding sites in the proximal and distal promoter regions of the mouse alpha-fetoprotein gene. Zhang DE, et al. J Biol Chem 1990 Feb 25; 265(6):3382–91

Cloning, sequence, and expression of a cDNA encoding hamster UDP-GlcNAc:dolichol phosphate N-acetylglucosamine-1-phosphate transferase. Zhu XY, et al. J Biol Chem 1990 Aug 25;265(24):14250–5

Molecular cloning of cDNA encoding human and rabbit forms of the Ca2+ release channel (ryanodine receptor) of skeletal muscle sarcoplasmic reticulum. Zorzato F, et al. J Biol Chem 1990 Feb 5;265(4):2244–56

Delineation of coding areas in DNA sequences through assignment of codon probabilities. Hinds PW, et al. J Biomol Struct Dyn 1985 Dec;3(3):543–9

DNA sequence patterns in precisely positioned nucleosomes. Uberbacher EC, et al. J Biomol Struct Dyn 1988 Aug; 6(1):105–20

Co-transformation of Lec 1 CHO cells with N-acetylglucosaminyltransferase I activity and a selectable marker. Ripka J, et al. J Cell Biochem 1990 Mar; 42(3):117–22

Transformation of murine melanocytes by basic fibroblast growth factor cDNA and oncogenes and selective suppression of the transformed phenotype in a reconstituted cutaneous environment. Dotto GP, et al. J Cell Biol 1989 Dec;109(6 Pt 1):3115–28

Primary sequence and heterologous expression of nuclear pore glycoprotein p62. Starr CM, et al. **J Cell Biol** 1990 Jun;110(6):1861–71

Cell cycle regulation of an exogenous human poly(ADP–ribose) polymerase cDNA introduced into murine cells. Bhatia K, et al. **J Cell Physiol** 1990 Aug; 144(2):345–53

Cloned cDNA sequence for the human mesothelial protein 'mesosecrin' discloses its identity as a plasminogen activator inhibitor (PAI–1) and a recent evolutionary change in transcript processing. Cicila GT, et al. **J Cell Sci** 1989 Sep; 94 (Pt 1):1–10

Molecular cloning of the cDNA for ligatin. Jakoi ER, et al. **J Cell Sci** 1989 Jun;93 (Pt 2):227–32

Major histocompatibility complex–linked diabetogenic gene of the nonobese diabetic mouse. Analysis of genomic DNA amplified by the polymerase chain reaction. Ikegami H, et al. **J Clin Invest** 1990 Jan;85(1):18–24

A single nucleotide substitution introduces a premature termination codon into the androgen receptor gene of a patient with receptor–negative androgen resistance. Marcelli M, et al. **J Clin Invest** 1990 May;85(5):1522–8

Cloning and characterization of complementary DNA for human tryptase. Miller JS, et al. **J Clin Invest** 1989 Oct; 84(4):1188–95

Sequences of complementary DNAs that encode the NA1 and NA2 forms of Fc receptor III on human neutrophils. Ory PA, et al. **J Clin Invest** 1989 Nov;84(5):1688–91

Sequence and exon–intron organization of the DNA encoding the alpha I domain of human spectrin. Application to the study of mutations causing hereditary elliptocytosis. Sahr KE, et al. **J Clin Invest** 1989 Oct; 84(4):1243–52

Pneumonia of lambs following inoculation of isolates of sheep herpesvirus (caprine herpesvirus 1) of different DNA genotypes. Scott FM, et al. **J Comp Pathol** 1990 Jan; 102(1):111–7

Cloning and sequencing of a complementary deoxyribonucleic acid coding for a bovine alpha s1–casein A from mammary tissue of a homozygous B variant cow. McKnight RA, et al. **J Dairy Sci** 1989 Oct;72(10):2464–73

Growth autonomy and tumorigenicity of interleukin 6–dependent B cells transfected with interleukin 6 cDNA. Tohyama N, et al. **J Exp Med** 1990 Feb 1;171(2):389–400

Differences in gene copy number carried by different MHC ancestral haplotypes. Quantitation after physical separation of haplotypes by pulsed field gel electrophoresis. Zhang WJ, et al. **J Exp Med** 1990 Jun 1;171(6):2101–14

Molecular analysis of the gene encoding an antigenic polypeptide of Trichinella spiralis infective larvae. Sugane K, et al. **J Helminthol** 1990 Mar;64(1):1–8

PHYLO: a cluster analysis program. Baertlein DA, et al. **J Hered** 1990 Jan–Feb;81(1):87–8

DNA fingerprinting of spontaneously hypertensive and Wistar–Kyoto rats: implications for hypertension research. Samani NJ, et al. **J Hypertens** 1989 Oct;7(10):809–16

Isolation of cDNA clones for the interferon–induced 67,000–dalton protein: direct induction of a family of mRNAs by human interferon–alpha and interferon–gamma. Margolis–Nunno H, et al. **J Interferon Res** 1990 Jun; 10(3):309–19

Constitutive expression of a 2',5'–oligoadenylate synthetase cDNA results in increased antiviral activity and growth suppression. Rysiecki G, et al. **J Interferon Res** 1989 Dec; 9(6):649–57

Intramolecular DNA triplexes, bent DNA and DNA unwinding elements in the initiation region of an amplified dihydrofolate reductase replicon [published erratum appears in J Mol Biol 1990 Apr 20;212(4):865] Caddle MS, et al. **J Mol Biol** 1990 Jan 5;211(1):19–33

DNA base changes and RNA levels in N–acetoxy–2–acetylaminofluorene–induced dihydrofolate reductase mutants of Chinese hamster ovary cells. Carothers AM, et al. **J Mol Biol** 1989 Aug 5;208(3):417–28

Cleaving the prohead RNA of bacteriophage phi 29 alters the in vitro packaging of restriction fragments of DNA–gp3. Grimes S, et al. **J Mol Biol** 1989 Sep 5; 209(1):101–8

In vitro packaging of bacteriophage phi 29 DNA restriction fragments and the role of the terminal protein gp3. Grimes S, et al. **J Mol Biol** 1989 Sep 5;209(1):91–100

Novel human brain cDNA encoding a 34,000 Mr protein n–chimaerin, related to both the regulatory domain of protein kinase C and BCR, the product of the breakpoint cluster region gene. Hall C, et al. **J Mol Biol** 1990 Jan 5;211(1):11–6

Unidirectional transfer of broad host–range plasmid R1162 during conjugative mobilization. Evidence for genetically distinct events at oriT. Kim K, et al. **J Mol Biol** 1989 Aug 5;208(3):501–5

Complementary DNA cloning of a protein highly homologous to mammalian sarcoplasmic reticulum Ca–ATPase from the crustacean Artemia. Palmero I, et al. **J Mol Biol** 1989 Dec 20;210(4):737–48

Alpha–myosin heavy chain cDNA structure and gene expression in adult, fetal, and premature baboon myocardium. Hixson JE, et al. **J Mol Cell Cardiol** 1989 Oct;21(10):1073–86

Molecular cloning of a cDNA for androgen–regulated proteins secreted by the mouse epididymis. Ghyselinck NB, et al. **J Mol Endocrinol** 1990 Feb;4(1):5–12

The C.S.E.O.L. Conference on DNA–DNA Hydridization and Evolution. Lake Arrowhead, California, May 11–14, 1989. Proceedings. **J Mol Evol** 1990 Mar;30(3):191–311

Extreme rates and heterogeneity in insect DNA evolution. Caccone A, et al. **J Mol Evol** 1990 Mar;30(3):273–80 (25 ref.)

Primate evolution at the DNA level and a classification of hominoids. Goodman M, et al. **J Mol Evol** 1990 Mar; 30(3):260–6

Comparison of dinucleotide frequency and codon usage in Toxoplasma and Plasmodium: evolutionary implications. Johnson AM. **J Mol Evol** 1990 Apr;30(4):383–7

Evaluation of the maximum likelihood estimate of the evolutionary tree topologies from DNA sequence data, and the branching order in hominoidea. Kishino H, et al. **J Mol Evol** 1989 Aug;29(2):170–9

Vertebrate protamine gene evolution I. Sequence alignments and gene structure. Oliva R, et al. **J Mol Evol** 1990 Apr; 30(4):333–46

Rates of molecular evolution and the fraction of nucleotide positions free to vary. Palumbi SR. **J Mol Evol** 1989 Aug; 29(2):180–7

DNA hybridization as a guide to phylogeny: chemical and physical limits. Schmid CW, et al. **J Mol Evol** 1990 Mar; 30(3):237–46

DNA hybridization evidence of hominoid phylogeny: a reanalysis of the data. Sibley CG, et al. **J Mol Evol** 1990 Mar;30(3):202–36

DNA hybridization, cladistics, and the phylogeny of phalangerid marsupials. Springer MS, et al. **J Mol Evol** 1990 Mar;30(3):298–311

A population genetic model of selection that maintains specific trinucleotides at a specific location. Tachida H. **J Mol Evol** 1990 Jul;31(1):10–7

Expression of a human complementary DNA for the multidrug resistance gene in murine hematopoietic precursor cells with the use of retroviral gene transfer [see comments] McLachlin JR, et al. **J Natl Cancer Inst** 1990 Aug 1;82(15):1260–3 Comment in: J Natl Cancer Inst 1990 Aug 1;82(15):1234–5.

5' flanking DNA sequences direct cell–specific expression of rat tyrosine hydroxylase. Cambi F, et al. **J Neurochem** 1989 Nov;53(5):1656–9

Rat brain glutamic acid decarboxylase sequence deduced from a cloned cDNA. Julien JF, et al. **J Neurochem** 1990 Feb;54(2):703–5

Planning the purification process of active cDNA in expression cloning strategies. Brunden MN, et al. **J Theor Biol** 1990 May 22;144(2):145–54

Mechanistic clues to the mutagenicity of alkylated DNA bases: a theoretical study. Duncan RH, et al. **J Theor Biol** 1989 Oct 9;140(3):345–54

Equations between frequencies of amino acids in organisms [letter] Zhang CT. **J Theor Biol** 1990 Jan 23;142(2):281–4

The flow cytometric analysis of undescended testes in children. Ring KS, et al. **J Urol** 1990 Aug;144(2 Pt 2):494–8; discussion 512–3

Cloning and sequence analyses of cDNAs for interferon– and virus–induced human Mx proteins reveal that they contain putative guanine nucleotide–binding sites: functional study of the corresponding gene promoter. Horisberger MA, et al. **J Virol** 1990 Mar;64(3):1171–81

Human papillomavirus type 6 long control region and human cellular DNA contain related sequences. Hrisomalos TF, et al. **J Virol** 1990 Oct;64(10):5188–91

Genetic mapping of a cloned sequence responsible for susceptibility to ecotropic murine leukemia viruses. Kozak CA, et al. **J Virol** 1990 Jun;64(6):3119–21

Analysis of bcr rearrangements in primary (essential) thrombocythaemia. Tesch H, et al. **Leuk Res** 1990; 14(3):241–6

Clonal analysis of chronic myeloproliferative disorders using X–linked DNA polymorphisms. Anger B, et al. **Leukemia** 1990 Apr;4(4):258–61

Molecular cloning of the baboon interferon–gamma cDNA. Dijkmans R, et al. **Lymphokine Res** 1990 Fall;9(3):345–54

Segmental amplification of the entire helical and telopeptide regions of the cDNA for human alpha 1 (I) collagen. Labhard ME, et al. **Matrix** 1990 May;10(2):124–30

A protective function for noncoding, or secondary DNA. Bandea CI. **Med Hypotheses** 1990 Jan;31(1):33–4

Characterization of a Trypanosoma cruzi genomic fragment complementary to several species–specific mRNAs but different from the spliced leader sequence. Cotrim PC, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;84(2):143–9

Colorimetric–detected DNA sequencing. Beck S. **Methods Enzymol** 1990;184:612–7

Statistical methods for estimating sequence divergence. Gojobori T, et al. **Methods Enzymol** 1990;183:531–50

Analysis of pre–mRNA processing in transfected plant protoplasts. Goodall GJ, et al. **Methods Enzymol** 1990; 181:148–61

Finding protein similarities with nucleotide sequence databases. Henikoff S, et al. **Methods Enzymol** 1990; 183:111–32

Methods for introducing DNA into mammalian cells. Keown WA, et al. **Methods Enzymol** 1990;185:527–37

Fast alignment of DNA and protein sequences. Landau GM, et al. **Methods Enzymol** 1990;183:487–502

Rapid and sensitive sequence comparison with FASTP and FASTA. Pearson WR. **Methods Enzymol** 1990;183:63–98

Ancient patterns in nucleic acid sequences. Shepherd JC. **Methods Enzymol** 1990;183:180–92

Finding protein coding regions in genomic sequences. Staden R. **Methods Enzymol** 1990;183:163–80

Searching for patterns in protein and nucleic acid sequences. Staden R. **Methods Enzymol** 1990;183:193–211

Consensus patterns in DNA. Stormo GD. **Methods Enzymol** 1990;183:211–21

Consensus methods for DNA and protein sequence alignment. Waterman MS, et al. **Methods Enzymol** 1990; 183:221–37

Not as simple as ABC [news] Pugsley AP. **Microbiol Sci** 1988 May;5(5):152–3

Amino acid sequence homology between cyclophilin and a cDNA–cloned antigen of Echinococcus granulosus. Lightowlers MW, et al. **Mol Biochem Parasitol** 1989 Oct; 36(3):287–9

Molecular clocks and generation time in burramyid marsupials. Cockburn A, et al. **Mol Biol Evol** 1990 May; 7(3):283–5

A statistical test of phylogenies estimated from sequence data. Li WH. **Mol Biol Evol** 1989 Jul;6(4):424–35

The analysis of population survey data on DNA sequence variation. Lynch M, et al. **Mol Biol Evol** 1990 Jul; 7(4):377–94

Dispersed repeats and structural reorganization in subclover chloroplast DNA. Milligan BG, et al. **Mol Biol Evol** 1989 Jul;6(4):355–68

Statistical tests for detecting gene conversion. Sawyer S. **Mol Biol Evol** 1989 Sep;6(5):526–38

Single–copy DNA distance between two congeneric sea urchin species exhibiting radically different modes of development. Smith MJ, et al. **Mol Biol Evol** 1990 Jul; 7(4):315–26

Rates of single–copy DNA evolution in phalangeriform marsupials. Springer MS, et al. **Mol Biol Evol** 1989 Jul; 6(4):331–41

Chloroplast DNA evolves slowly in the palm family (Arecaceae). Wilson MA, et al. **Mol Biol Evol** 1990 Jul; 7(4):303–14

Mutagen activation by cDNA–expressed P(1)450, P(3)450, and P450a. Aoyama T, et al. **Mol Carcinog** 1989;1(4):253–9

Denaturing gradient gel analysis of single–base substitutions at a mouse adenine phosphoribosyltransferase splice acceptor site. Dlouhy SR, et al. **Mol Carcinog** 1989; 2(4):217–25

cDNA structures and regulation of two interferon–induced human Mx proteins. Aebi M, et al. **Mol Cell Biol** 1989 Nov;9(11):5062–72

Characterization and cDNA cloning of phospholipase C–gamma, a major substrate for heparin–binding growth factor 1 (acidic fibroblast growth factor)–activated tyrosine kinase. Burgess WH, et al. **Mol Cell Biol** 1990 Sep; 10(9):4770–7

cDNA genes formed after infection with retroviral vector particles lack the hallmarks of natural processed pseudogenes. Dornburg R, et al. **Mol Cell Biol** 1990 Jan; 10(1):68–74

Glucocorticoid receptor binding to a specific DNA sequence is required for hormone–dependent repression of pro–opiomelanocortin gene transcription. Drouin J, et al. **Mol Cell Biol** 1989 Dec;9(12):5305–14

The mouse surfeit locus contains a cluster of six genes associated with four CpG–rich islands in 32 kilobases of genomic DNA. Huxley C, et al. **Mol Cell Biol** 1990 Feb; 10(2):605–14

Diverse forms of a receptor for acidic and basic fibroblast growth factors. Johnson DE, et al. **Mol Cell Biol** 1990 Sep; 10(9):4728–36

Characterization of a cDNA encoding a cysteine–rich cell surface protein located in the flagellar pocket of the protozoan Trypanosoma brucei. Lee MG, et al. **Mol Cell Biol** 1990 Sep;10(9):4506–17

Unusual features of integrated cDNAs generated by infection with genome–free retroviruses. Levine KL, et al. **Mol Cell Biol** 1990 May;10(5):1891–900

Cloning and expression of cDNA for a human low–Km, rolipram–sensitive cyclic AMP phosphodiesterase. Livi GP, et al. **Mol Cell Biol** 1990 Jun;10(6):2678–86

Developmental regulation of topoisomerase II sites and DNase I–hypersensitive sites in the chicken beta–globin locus. Reitman M, et al. **Mol Cell Biol** 1990 Jun; 10(6):2774–86

Use of a HpaII–polymerase chain reaction assay to study DNA methylation in the Pgk–1 CpG island of mouse embryos at the time of X–chromosome inactivation. Singer–Sam J, et al. **Mol Cell Biol** 1990 Sep;10(9):4987–9

Molecular analysis of two mouse dilute locus deletion mutations: spontaneous dilute lethal20J and radiation–induced dilute prenatal lethal Aa2 alleles. Strobel MC, et al. **Mol Cell Biol** 1990 Feb;10(2):501–9

A DNA signal from the Thy–1 gene defines de novo methylation patterns in embryonic stem cells. Szyf M, et al. **Mol Cell Biol** 1990 Aug;10(8):4396–400

DNA methylation and demethylation events during meiotic prophase in the mouse testis. Trasler JM, et al. **Mol Cell Biol** 1990 Apr;10(4):1828–34

The Z–DNA motif d(TG)30 promotes reception of information during gene conversion events while stimulating homologous recombination in human cells in culture. Wahls WP, et al. **Mol Cell Biol** 1990 Feb; 10(2):785–93

Homologous recombination enhancement conferred by the Z–DNA motif d(TG)30 is abrogated by simian virus 40

T antigen binding to adjacent DNA sequences. Wahls WP, et al. **Mol Cell Biol** 1990 Feb;10(2):794–800

A B-cell-specific nuclear protein that binds to DNA sites 5' to immunoglobulin S alpha tandem repeats is regulated during differentiation. Waters SH, et al. **Mol Cell Biol** 1989 Dec;9(12):5594–601

Closely related DNA sequences specify distinct patterns of developmental expression in Drosophila melanogaster. Xiao H, et al. **Mol Cell Biol** 1990 Jun;10(6):3272–6

Prolactin stimulates milk protein promoter in CHO cells cotransfected with prolactin receptor cDNA. Lesueur L, et al. **Mol Cell Endocrinol** 1990 May 28;71(1):R7–12

Characterization of complementary deoxyribonucleic acid for human adrenocortical 17 alpha-hydroxylase: a probe for analysis of 17 alpha-hydroxylase deficiency. Bradshaw KD, et al. **Mol Endocrinol** 1987 May;1(5):348–54

Complementary deoxyribonucleic acid (cDNA) cloning and DNA sequence analysis of rat ovarian inhibins. Esch FS, et al. **Mol Endocrinol** 1987 May;1(5):388–96

Cloning and characterization of mouse growth hormone-releasing hormone (GRH) complementary DNA: increased GRH messenger RNA levels in the growth hormone-deficient lit/lit mouse. Frohman MA, et al. **Mol Endocrinol** 1989 Oct;3(10):1529–36

Aromatase cytochrome P450 in rat ovarian granulosa cells before and after luteinization: adenosine 3',5'-monophosphate-dependent and independent regulation. Cloning and sequencing of rat aromatase cDNA and 5' genomic DNA. Hickey GJ, et al. **Mol Endocrinol** 1990 Jan;4(1):3–12

Molecular cloning and characterization of a progesterone-dependent cat endometrial secretory protein complementary deoxyribonucleic acid. Jaffe RC, et al. **Mol Endocrinol** 1989 Nov;3(11):1807–14

Identification and characterization of a rat decidual insulin-like growth factor-binding protein complementary DNA. Murphy LJ, et al. **Mol Endocrinol** 1990 Feb; 4(2):329–36

Canine pancreatic polypeptide complementary deoxyribonucleic acid sequence: pancreatic polypeptide and insulin messenger ribonucleic acid distribution in the lobes of the pancreas. Toothman P, et al. **Mol Endocrinol** 1987 Jun;1(6):413–9

Cloning and sequence of cDNA for human placental cytokeratin 8. Regulation of the mRNA in trophoblastic cells by cAMP. Yamamoto R, et al. **Mol Endocrinol** 1990 Mar;4(3):370–4

Isolation and characterization of cDNA clones encoding photosystem I subunits with molecular masses 11.0, 10.0 and 8.4 kDa from Chlamydomonas reinhardtii. Franzén LG, et al. **Mol Gen Genet** 1989 Oct;219(1–2):137–44

Spectrum of spontaneous mutations in a cDNA of the human hprt gene integrated in chromosomal DNA. Ikehata H, et al. **Mol Gen Genet** 1989 Nov;219(3):349–58

DNA sequence and pattern of expression of the sea urchin (Paracentrotus lividus) alpha-tubulin genes. Gianguzza F, et al. **Mol Reprod Dev** 1989;1(3):170–81

Beta-galactosidase overexpression in SV40-transformed Chinese hamster fibroblasts exposed to mutagens as a result of amplification of transfected bacterial lacZ DNA sequences. Clément JM, et al. **Mutat Res** 1989 Nov; 218(3):179–88

Studying DNA mutations in human cells with the use of an integrated HSV thymidine kinase target gene. Giphart-Gassler M, et al. **Mutat Res** 1989 Oct; 214(2):223–32

Selective repair of specific chromatin domains in UV-irradiated cells from xeroderma pigmentosum complementation group C. Kantor GJ, et al. **Mutat Res** 1990 May;235(3):171–80

Oncogene alterations in in vitro transformed rat tracheal epithelial cells. Mass MJ, et al. **Mutat Res** 1990 Apr; 243(4):291–8

Fate of DNA lesions that elicit sister-chromatid exchanges. Morales-Ramírez P, et al. **Mutat Res** 1990 Sep;232(1):77–88

The genetic consequences of DNA precursor pool imbalance: sequence analysis of mutations induced by excess thymidine at the hamster aprt locus. Phear G, et al. **Mutat Res** 1989 Oct;214(2):201–6

An improved method for the detection of genetic variations in DNA with denaturing gradient gel electrophoresis. Takahashi N, et al. **Mutat Res** 1990 Apr;234(2):61–70

Expression of the cDNA for the beta subunit of human casein kinase II confers partial UV resistance on xeroderma pigmentosum cells. Teitz T, et al. **Mutat Res** 1990 Jul; 236(1):85–97

Nuclear DNA content variability in Xenopus laevis: a redundancy regulation common to all gene families. Amaldi F, et al. **Nature** 1973 Apr 27;242(5400):615–7

Genetic fingerprinting: forensic tests proved innocent [news] Anderson A. **Nature** 1990 Aug 9;346(6284):499

Forensic science: DNA fingerprinting on trial [news] Anderson A. **Nature** 1989 Dec 21–28;342(6252):844

Evolutionary transfer of the chloroplast tufA gene to the nucleus. Baldauf SL, et al. **Nature** 1990 Mar 15; 344(6263):262–5

Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing receptor. Camerini D, et al. **Nature** 1989 Nov 2;342(6245):78–82

Primary structure and functional expression from complementary DNA of a human interleukin-1 receptor antagonist. Eisenberg SP, et al. **Nature** 1990 Jan 25; 343(6256):341–6

Population structure of the human pseudoautosomal boundary. Ellis N, et al. **Nature** 1990 Apr 12; 344(6267):663–5

Improving PCR efficiency [letter] Furrer B, et al. **Nature** 1990 Jul 26;346(6282):324

Primary structure and functional expression of the inositol 1,4,5-trisphosphate-binding protein P400. Furuichi T, et al. **Nature** 1989 Nov 2;342(6245):32–8

Genetic fingerprinting reflects population differentiation in the California Channel Island fox. Gilbert DA, et al. **Nature** 1990 Apr 19;344(6268):764–7

Chloroplast DNA sequence from a miocene Magnolia species. Golenberg EM, et al. **Nature** 1990 Apr 12; 344(6267):656–8

Enzymatic incorporation of a new base pair into DNA and RNA extends the genetic alphabet [see comments] Piccirilli JA, et al. **Nature** 1990 Jan 4;343(6253):33–7 Comment in: Nature 1990 Jan 4;343(6253):18–20.

Sequence-specific DNA-binding activities of the gap proteins encoded by hunchback and Krüppel in Drosophila. Stanojević D, et al. **Nature** 1989 Sep 28;341(6240):331–5

Cardiac-type excitation-contraction coupling in dysgenic skeletal muscle injected with cardiac dihydropyridine receptor cDNA. Tanabe T, et al. **Nature** 1990 Mar 29; 344(6265):451–3

Sequence and expression of a frog brain complementary DNA encoding a kainate-binding protein. Wada K, et al. **Nature** 1989 Dec 7;342(6250):684–9

Sequencing and expression of complementary DNA for the general transcription factor BTF3. Zheng XM, et al. **Nature** 1990 Apr 5;344(6266):556–9

A rat brain Na+ channel alpha subunit with novel gating properties. Auld VJ, et al. **Neuron** 1988 Aug;1(6):449–61

Molecular cloning of SC1: a putative brain extracellular matrix glycoprotein showing partial similarity to osteonectin/BM40/SPARC [published erratum appears in Neuron 1990 Mar;4(3):477] Johnston IG, et al. **Neuron** 1990 Jan;4(1):165–76

A Purkinje cell differentiation marker shows a partial DNA sequence homology to the cellular sis/PDGF2 gene [published erratum appears in Neuron 1989 Sep;3(3):following 385] Oberdick J, et al. **Neuron** 1988 Jul; 1(5):367–76

Brain alpha-bungarotoxin binding protein cDNAs and MAbs reveal subtypes of this branch of the ligand-gated ion channel gene superfamily. Schoepfer R, et al. **Neuron** 1990 Jul;5(1):35–48

Variability of DNA fingerprint in a Japanese population. Honma M, et al. **Nippon Hoigaku Zasshi** 1989 Apr; 43(2):128–33

DNA fingerprinting by means of a nonradioactive probe of sulfonated DNA. Naito E, et al. **Nippon Hoigaku Zasshi** 1989 Jun;43(3):243–5

Nucleotide sequence of cDNA encoding human fumarylacetoacetase. Agsteribbe E, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1887

An improved method for the construction of high efficiency cDNA library in plasmid or lambda vector. Aguan K, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1071

Application of a new method of pattern recognition in DNA sequence analysis: a study of E. coli promoters. Alexandrov NN, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1847–52

Nucleotide and derived amino-acid sequence of a cDNA encoding a new mouse carbonic anhydrase. Amor-Gueret M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1646

One label, one tube, Sanger DNA sequencing in one and two lanes on a gel. Ansorge W, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3419–20

Nucleotide sequence of a cDNA for bovine cytochrome c oxidase subunit VIIc. Aqua MS, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8376

Improvement of PCR amplified DNA sequencing with the aid of detergents. Bachmann B, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1309

Efficient functioning of plant promoters and poly(A) sites in Xenopus oocytes. Ballas N, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7891–903

Nucleotide sequence of the alternatively spliced human thyroid peroxidase cDNA, TPO-2. Barnett PS, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):670

DNA sequencing with thermostable Tet DNA polymerase from Thermus thermophilus. Bechtereva TA, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10507

Nucleotide sequence of a cDNA clone of Xenopus platelet-derived growth factor A-chain. Bejcek BE, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):680

Cloning and DNA sequence analysis of the cDNA for the common alpha-subunit of the ovine pituitary glycoprotein hormones. Bello PA, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10494

A HindIII polymorphism identified by a DNA clone which maps to chromosome 17 (D17S245). Brook JD, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1085

RFLP for a DNA clone which maps to 19q13.2–19qter (D19S63). Brook JD, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1085

Sequence-dependent structural variations of DNA revealed by DNase I. Brukner I, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):891–4

Nucleotide sequence of a cDNA encoding the human muscle-specific enolase (MSE). Cali L, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1893

Sequence of a cDNA from Chlamydomonas reinhardii encoding a ubiquitin 52 amino acid extension protein. Callis J, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8377

Xenopus laevis Cu,Zn superoxide dismutase B cDNA sequence. Carrí MT, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1641

Conditions for generating well-resolved human DNA fingerprints using M13 phage DNA. Chen P, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1065

Modulation of glutathione peroxidase expression by selenium: effect on human MCF-7 breast cancer cell transfectants expressing a cellular glutathione peroxidase cDNA and doxorubicin-resistant MCF-7 cells. Chu FF, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1531–9

Influence of the sequence-dependent flexure of DNA on transcription in E. coli. Collis CM, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9447–68

Complete cDNA sequence of sorghum phosphoenolpyruvate carboxylase involved in C4 photosynthesis. Cretin C, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):658

cDNA deduced amino-acid sequences of two novel kappa-neurotoxins from Bungarus multicinctus. Danse JM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1050

A cDNA sequence encoding a neurotoxin-homolog from Bungarus multicinctus. Danse JM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1045

Complete nucleotide sequence of the cDNA for thyroid peroxidase in FRTL5 rat thyroid cells. Derwahl M, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8380

Conserved DNA structures in origins of replication. Eckdahl TT, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1609–12

Tetrahymena pyriformis DNA fragment with a gene cluster for 3 putative serine tRNAs and an asparagine tRNA. Endoh H, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10122

The 3' ends of alu repeats are highly polymorphic. Epstein N, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4634

Alternative DNA-protein interactions in variable-length internucleosomal regions associated with Drosophila Adh distal promoter expression. Ewel A, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1771–81

Organization of the 3'-boundary of the chicken alpha globin gene domain and characterization of a CR 1-specific protein binding site. Farache G, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):401–9

Nucleotide sequence of a cloned rice genomic DNA fragment that encodes a 10 kDa prolamin polypeptide. Feng GH, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):683

Nucleotide sequence of an intermediate filament cDNA from Torpedo californica. Frail DE, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1910

Repetitive DNA sequence from the crayfish Procambarus clarkii. Fuchs LY, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1650

Direct sequencing of double-stranded DNA PCR products via removing the complementary strand with single-stranded DNA of an M13 clone. Gal S, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1076

Detection of single-base mutations by reaction of DNA heteroduplexes with a water-soluble carbodiimide followed by primer extension: application to products from the polymerase chain reaction. Ganguly A, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3933–9

Nucleotide sequence of cDNA for human aldose reductase. Graham A, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8368

Complete cDNA sequence encoding human beta-galactoside alpha-2,6-sialyltransferase. Grundmann U, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):667

Nucleotide and deduced amino acid sequence of the rat T-cell alloantigen RT6.1. Haag F, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1047

Nucleotide sequence of a cDNA clone representing a third allele of human protein B23. Hale TK, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10112

An Arabidopsis thaliana cDNA clone encoding a low molecular weight heat shock protein. Helm KW, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7995

The sequence of an adrenal specific human cDNA, pG2. Helman LJ, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):685

Ordered deletions for DNA sequencing and in vitro mutagenesis by polymerase extension and exonuclease III gapping of circular templates. Henikoff S. **Nucleic Acids Res** 1990 May 25;18(10):2961–6

Sequence of the cDNA encoding ITF-1, a positive-acting transcription factor. Henthorn P, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):677

Sequence of the cDNA encoding ITF-2, a positive-acting transcription factor. Henthorn P, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):678

Nucleotide sequence of carp mitochondrial cytochrome C oxidase III. Huang CJ, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1056

A simple method for direct cloning cDNA sequence that flanks a region of known sequence from total RNA by applying the inverse polymerase chain reaction. Huang SH, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1922

Large inverted duplications in amplified DNA of mammalian cells form hairpins in vitro upon DNA extraction but not in vivo. Hyrien O. **Nucleic Acids Res** 1989 Dec 11; 17(23):9557–69

A VNTR immediately adjacent to the human pseudoautosomal telomere. Inglehearn CF, et al.

Nucleic Acids Res 1990 Feb 11;18(3):471–6
Complete cDNA sequence of rat phosphoribosylpyrophosphate synthetase subunit II (PRS II). Ishijima S, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8859
Complete cDNA sequence of rat phosphoribosylpyrophosphate synthetase subunit I (PRS I). Ishijima S, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8860
Sequence of a cDNA coding for human IRF-2. Itoh S, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8372
Chaos game representation of gene structure. Jeffrey HJ. **Nucleic Acids Res** 1990 Apr 25;18(8):2163–70
Nucleotide sequence of a full length cDNA clone encoding the oxytocin–neurophysin I precursor isolated from the ovine corpus luteum. Jones DS, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7990
Isolation and mapping of a polymorphic DNA sequence (CJ52.1) on chromosome 16 [D16S152] Julier C, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8014
Sequence of a near-full length cDNA clone for a mRNA of barley induced by fungal infection. Jutidamrongphan W, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9478
Sequence of a cDNA encoding soybean basic 7S globulin. Kagawa H, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8868
Selective enrichment of a large size genomic DNA fragment by affinity capture: an approach for genome mapping. Kandpal RP, et al. **Nucleic Acids Res** 1990 Apr 11; 18(7):1789–95
Nucleotide sequence of a cDNA coding for mouse Ren1 preprorenin. Kim WS, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9480
A cis-acting transcription element of the c-myc gene can assume an H-DNA conformation [published erratum appears in Nucleic Acids Res 1989 Oct 25;17(20):8412] Kinniburgh AJ. **Nucleic Acids Res** 1989 Oct 11; 17(19):7771–8
Nucleotide sequence of a hamster cDNA highly homologous to the Xenopus laevis S19 ribosomal protein. Klein H, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3997
Sequence of a cDNA specifying subunit VIIc of human cytochrome c oxidase. Koga Y, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):684
Plasmid DNA sequencing using highly degenerate oligonucleotides as primers. Konrad M. **Nucleic Acids Res** 1990 Sep 11;18(17):5320
Mutation detection using nucleotide analogs that alter electrophoretic mobility. Kornher JS, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7779–84
Nucleotide sequences of mouse histone genes H2A and H3.1. Kosciessa U, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8861
Isolation and characterization of a Drosophila hydei histone DNA repeat unit. Kremer H, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1573–80
The nucleotide sequence of a developmentally regulated cDNA from Physarum polycephalum. Laroche A, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10502
A polymorphic DNA sequence (174–3.7) on chromosome 19 [D19S38] Lee JE, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10144
A new multi-locus DNA fingerprinting probe: pV47-2. Longmire JL, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1658
H2A.X. a histone isoprotein with a conserved C-terminal sequence, is encoded by a novel mRNA with both DNA replication type and polyA 3' processing signals. Mannironi C, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9113–26
The cDNA sequence of the alpha-subunit of the Chinese hamster adenylate cyclase-stimulatory G-protein. Mercken L, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):662
cDNA for bovine type 1 plasminogen activator inhibitor (PAI-1). Mimuro J, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8872
Recombination events during integration of transfected DNA into normal human cells. Murnane JP, et al. **Nucleic Acids Res** 1990 May 11;18(9):2733–8
Improved double-stranded DNA sequencing using the linear polymerase chain reaction. Murray V. **Nucleic Acids Res** 1989 Nov 11;17(21):8889
cDNA and deduced amino acid sequences of a male dominant P-450Md mRNA in rats. Nagata K, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4934
Molecular organization of sbcC, a gene that affects genetic recombination and the viability of DNA palindromes in Escherichia coli K-12. Naom IS, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8033–45
d(TG)n.d(CA)n sequences upstream of the rat prolactin gene form Z-DNA and inhibit gene transcription. Naylor LH, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1595–601
Structural instability of human tandemly repeated DNA sequences cloned in yeast artificial chromosome vectors. Neil DL, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1421–8
Two highly conserved transcribed regions in the 5S DNA repeats of the nematodes Caenorhabditis elegans and Caenorhabditis briggsae. Nelson DW, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8657–67
Polymerase chain reaction based assay to detect allelic loss in human DNA: loss of beta-interferon gene in chronic myelogenous leukemia. Neubauer A, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):993–8
Sequence analysis of a cDNA encoding a erabutoxin b from the sea-snake Laticauda semifasciata. Obara K, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10490
Nucleotide sequence of a rabbit genomic DNA encoding mature endothelin-3. Ohkubo S, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):374
Nucleotide sequences of the gene/cDNA coding for anti-murine erythrocyte autoantibody produced by a hybridoma from NZB mouse. Okamoto M, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1895
Incomplete primer extension during in vitro DNA amplification catalyzed by Taq polymerase; exploitation for DNA sequencing. Olsen DB, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9613–20
Nucleotide sequence of the dog thyrotropin receptor cDNA. Parmentier M, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10493
Isolation of a polymorphic DNA sequence (LL101) from the short arm of chromosome 17 [D17S251] Patel PI, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1087
Sequence of a cDNA from the Drosophila melanogaster white gene. Pepling M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1633
Nucleotide sequence of actinidin, a kiwi fruit protease. Podivinsky E, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8363
cDNA for endothelial leukocyte adhesion molecule 1 (ELAM1): sequence differences. Polte T, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1083
Nucleotide sequence of a rat heart cDNA encoding the isotype alpha of the catalytic subunit of protein phosphatase 2A. Posas F, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8369
Nucleotide sequence of a rat heart cDNA encoding the isotype beta of the catalytic subunit of protein phosphatase 2A. Posas F, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8370
Nucleotide sequence of a cDNA for phi, a histone to protamine transition protein from sea cucumber spermatozoa. Prats E, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10097
High resolution southern analysis of genomic DNA using heat denatured acrylamide gels. Préat T. **Nucleic Acids Res** 1990 Feb 25;18(4):1073
Cloning of cDNA encoding the complete precursor for bovine seminal ribonuclease. Preuss KD, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1057
Nucleotide sequence of a cDNA encoding the monkey cellular phosphoprotein p53. Rigaudy P, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8375
Simple human DNA-repeats associated with genomic hypervariability, flanking the genomic retroposons and similar to retroviral sites. Rogaev EI. **Nucleic Acids Res** 1990 Apr 11;18(7):1879–85
Genomic walking and sequencing by oligo-cassette mediated polymerase chain reaction. Rosenthal A, et al. **Nucleic Acids Res** 1990 May 25;18(10):3095–6
A polymorphic DNA sequence from the terminal part of chromosome 20q [D20S26] Rouyer F, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1662
Complete cDNA sequence of rat atrial myosin light chain 1: patterns of expression during development and with hypertension. Rovner AS, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1581–6
Nucleotide sequence encoding a 'synergistic-like' protein from the venom glands of Dendroaspis angusticeps. Rowan EG, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1639
Chicken NFI/TGGCA proteins are encoded by at least three independent genes: NFI-A, NFI-B and NFI-C with homologues in mammalian genomes. Rupp RA, et al. **Nucleic Acids Res** 1990 May 11;18(9):2607–16
Detection of mutations and DNA polymorphisms using whole genome Southern Cross hybridization. Ruvkun G, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):809–15
A computer program for choosing optimal oligonucleotides for filter hybridization, sequencing and in vitro amplification of DNA. Rychlik W, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8543–51
PCR amplification of DNA microdissected from a single polytene chromosome band: a comparison with conventional microcloning. Saunders RD, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9027–37
A comprehensive list of cloned human DNA sequences. Schmidtke J, et al. **Nucleic Acids Res** 1990 Apr 25;18 Suppl:2413–547
Characterisation of a cDNA for porcine PDH-E1 alpha and comparison with the human cDNA. Sermon K, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4925
Probing of unusual DNA structures in topologically constrained form V DNA: use of restriction enzymes as structural probe. Shouche YS, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):267–75
Variant tissue-type plasminogen activator (PLAT) cDNA obtained from human endothelial cells. Siebert PD, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1086
In vivo transcription of a cloned prosimian primate SINE sequence. Siegel VK, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8669–82
Human cDNA sequence homologous to the mouse LLRep3 gene family. Slynn G, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):681
Nucleotide sequence of Xenopus laevis Oct-1 cDNA. Smith DP, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):369
Ligation-mediated PCR improves the sensitivity of methylation analysis by restriction enzymes and detection of specific DNA strand breaks. Steigerwald SD, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1435–9
Nucleotide sequence of the full length cDNA encoding for human type II procollagen. Su MW, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9473
cDNA sequence of the human cellular early growth response gene Egr-1. Suggs SV, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4283
Supragenic loop organization: mapping in Drosophila embryos, of scaffold-associated regions on a 800 kilobase DNA continuum cloned from the 14B-15B first chromosome region. Surdej P, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3713–22
Sequence of the mouse liver glucose transporter. Suzue K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10099
Capillary gel electrophoresis for rapid, high resolution DNA sequencing. Swerdlow H, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1415–9
Nucleotide sequence of the human pancreatic trypsinogen III cDNA. Tani T, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1631
Internal eliminated sequences are removed prior to chromosome fragmentation during development in Euplotes crassus. Tausta SL, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):845–53
A rapid and simple method for introducing specific mutations into any position of DNA leaving all other positions unaltered. Tomic M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1656
Primary structure of human indoleamine 2,3-dioxygenase deduced from the nucleotide sequence of its cDNA. Tone S, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):367
The Caenorhabditis elegans genome contains monomorphic minisatellites and simple sequences. Uitterlinden AG, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9527–30
Derivation of clones from the choroideremia locus by preparative field inversion gel electrophoresis. van de Pol TJ, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):725–31
Improved cDNA cloning into bacteriophage lambda gt11. van Doorn LJ, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):9496
Nucleotide sequence of cDNA clone for hypoxanthine-guanine phosphoribosyltransferase from Plasmodium falciparum. Vasanthakumar G, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8382
pSH4: a mammalian cDNA expression vector. Vasavada HA, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3668
Sequence of a rat brain cDNA encoding an alpha-1B adrenergic receptor. Voigt MM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1053
Automated fluorescent sequencing of cosmid DNA. Voss H, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1066
Detecting base pair substitutions in DNA fragments by temperature-gradient gel electrophoresis. Wartell RM, et al. **Nucleic Acids Res** 1990 May 11;18(9):2699–705
Nucleotide sequence of a full length cDNA clone encoding a polyubiquitin gene from Pisum sativum. Watts FZ, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10010
Identification of an amplification promoting DNA sequence from the hypotrichous ciliate Stylonychia lemnae. Wegner M, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8783–802
Branch capture reactions: effect of recipient structure. Weinstock PH, et al. **Nucleic Acids Res** 1990 Jul 25; 18(14):4207–13
Cloning regions of the Drosophila genome by microdissection of polytene chromosome DNA and PCR with nonspecific primer. Wesley CS, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):599–603
cDNA sequences of two beta-globin genes in a Sprague-Dawley rat. Woo C, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8870
An additional promoter within the protein-coding region of the psbD-psbC gene cluster in tobacco chloroplast DNA. Yao WB, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):9583–91
A simplified protocol for fast plasmid DNA sequencing. Zimmermann J, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):1067
Modification of 5-methylcytosine in DNA and its relation to mutagenesis. Negishi K, et al. **Nucleic Acids Symp Ser** 1989;(21):111–2
Transabdominal placental biopsy in the second and third trimesters of pregnancy: what is the risk of maternal contamination in DNA diagnosis? Gänshirt-Ahlert D, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):320–3
Prenatal determinations of paternity by molecular genetic "fingerprinting". Kovacs BW, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):474–9
DNA analysis of unilateral twin ectopic gestation. Neuman WL, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):479–83
Characterization of human and mouse c-fes cDNA clones and identification of the 5' end of the gene. Alcalay M, et al. **Oncogene** 1990 Mar;5(3):267–75
Analysis of dimerization and DNA binding functions in Fos and Jun by domain-swapping: involvement of residues outside the leucine zipper/basic region. Cohen DR, et al. **Oncogene** 1990 Jun;5(6):929–39
Nucleotide sequence analysis of human abl and bcr-abl cDNAs. Fainstein E, et al. **Oncogene** 1989 Dec;

4(12):1477–81
An SV40 large T antigen binding site in the cellular genome is part of a cis–acting transcriptional element. Wagner S, et al. **Oncogene** 1990 Mar;5(3):353–9
Cloning, sequencing, and expression of mouse c–ets–1 cDNA in baculovirus expression system. Chen JH.
Oncogene Res 1990;5(4):277–85
Molecular approaches to DNA diagnosis. Barker DC.
Parasitology 1989;99 Suppl:S125–46 (91 ref.)
Genetic heterogeneity within Echinococcus granulosus: isolates from different hosts and geographical areas characterized with DNA probes. McManus DP, et al.
Parasitology 1989 Aug;99 Pt 1:17–29
Dynamic changes of DNA sequences in Schistosoma mansoni in the course of development. Nara T, et al.
Parasitology 1990 Apr;100 Pt 2:241–5
Integration and expression of murine retrovirus–related sequences in schistosomes. Tanaka M, et al.
Parasitology 1989 Aug;99 Pt 1:31–8
Automated cell analysis for DNA studies of large cell populations using the LEYTAS image cytometry system. Ploem JS, et al. **Pathol Res Pract** 1989 Nov;185(5):671–5
Undifferentiated (embryonal) sarcoma of the liver: ultrastructure, immunohistochemistry, and DNA ploidy analysis of two cases. Chou P, et al. **Pediatr Pathol** 1990; 10(4):549–62
Isolation and characterization of human liver cytochrome b5 cDNA. Miyata M, et al. **Pharmacol Res** 1989 Sep–Oct; 21(5):513–20
DNA methylation and gene regulation.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):177–338
DNA methylation of maize transposable elements is correlated with activity. Dennis ES, et al.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):217–29
The significance of DNA methylation patterns: promoter inhibition by sequence–specific methylation is one functional consequence. Doerfler W.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):253–65
Demethylation of genes in animal cells. Frank D, et al.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):241–51
DNA methylation and epigenetic inheritance. Holliday R.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):329–38
Methylation and expression of the Myo D1 determination gene. Jones PA, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;326(1235):277–84
Tissue specific expression of avian vitellogenin gene is correlated with DNA hypomethylation and in vivo specific protein–DNA interactions. Jost JP, et al.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):231–40
DNA methylation and specific protein–DNA interactions. Molloy PL, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;326(1235):267–75
Changes in DNA methylation during mouse embryonic development in relation to X–chromosome activity and imprinting. Monk M. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;326(1235):299–312
DNA methylation and late replication probably aid cell memory, and type I DNA reeling could aid chromosome folding and enhancer function. Riggs AD.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):285–97
Developmental consequences of imprinting of parental chromosomes by DNA methylation. Surani MA, et al.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):313–27
Conserved DNA sequences in chlamydial plasmids. Hugall A, et al. **Plasmid** 1989 Sep;22(2):91–8
Primary cells and established cell lines join DNA ends with the same efficiency relative to homologous recombination. Zheng H, et al. **Plasmid** 1989 Sep;22(2):99–105
Prenatal diagnosis of beta–thalassaemia in Mediterranean populations by dot blot analysis with DNA amplification and allele specific oligonucleotide probes. Ristaldi MS, et al. **Prenat Diagn** 1989 Sep;9(9):629–38
Characterization and expression of the complementary DNA encoding rat histidine decarboxylase.
Proc Natl Acad Sci U S A 1990 Sep;87(18):7346
A neutral amino acid change in segment IIS4 dramatically alters the gating properties of the voltage–dependent sodium channel. Auld VJ, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(1):323–7
Frameshift errors initiated by nucleotide misincorporation. Bebenek K, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):4946–50
Cloning and cDNA sequence of a bovine submaxillary gland mucin–like protein containing two distinct domains. Bhargava AK, et al. **Proc Natl Acad Sci U S A** 1990 Sep; 87(17):6798–802
Chromosome ends in Drosophila without telomeric DNA sequences. Biessmann H, et al.
Proc Natl Acad Sci U S A 1990 Mar;87(5):1758–61
cDNA cloning and expression of a metalloproteinase inhibitor related to tissue inhibitor of metalloproteinases. Boone TC, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2800–4
Isolation of a candidate cDNA for the gene causing retinal degeneration in the rd mouse [published erratum appears in Proc Natl Acad Sci U S A 1990 Feb;87(4):1625] Bowes C, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9722–6
Sequence analysis of ripening–related cytochrome P–450 cDNAs from avocado fruit. Bozak KR, et al.
Proc Natl Acad Sci U S A 1990 May;87(10):3904–8
DNA fingerprinting by sampled sequencing. Brenner S, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8902–6
Characterization of a genetically reconstituted high–affinity system for serotonin transport. Chang AS, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(23):9611–5
Detection of specific DNA sequences by fluorescence amplification: a color complementation assay. Chehab FF, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9178–82
Cloning of a cDNA for a major human protein–tyrosine–phosphatase. Chernoff J, et al.
Proc Natl Acad Sci U S A 1990 Apr;87(7):2735–9
Isolation and expression of rat liver sepiapterin reductase cDNA. Citron BA, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6436–40
Amino acid and cDNA sequences of a vascular endothelial cell mitogen that is homologous to platelet–derived growth factor. Conn G, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2628–32
DNA sequences in the rat osteocalcin gene that bind the 1,25–dihydroxyvitamin D3 receptor and confer responsiveness to 1,25–dihydroxyvitamin D3. Demay MB, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):369–73
Hemimethylation of DNA prevents chromatin expression. Deobagkar DD, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1691–5
Expression of gap junction channels in communication–incompetent cells after stable transfection with cDNA encoding connexin 32. Eghbali B, et al.
Proc Natl Acad Sci U S A 1990 Feb;87(4):1328–31
Molecular cloning of human testicular angiotensin–converting enzyme: the testis isozyme is identical to the C–terminal half of endothelial angiotensin–converting enzyme. Ehlers MR, et al.
Proc Natl Acad Sci U S A 1989 Oct;86(20):7741–5
Mapping small DNA sequences by fluorescence in situ hybridization directly on banded metaphase chromosomes. Fan YS, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(16):6223–7
Analysis of cytokine mRNA and DNA: detection and quantitation by competitive polymerase chain reaction. Gilliland G, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2725–9
Cloning of the cDNA and gene for a human D2 dopamine receptor. Grandy DK, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(24):9762–6
Differential plasmid rescue from transgenic mouse DNAs into Escherichia coli methylation–restriction mutants. Grant SG, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4645–9
Systematic screening of yeast artificial–chromosome libraries by use of the polymerase chain reaction. Green ED, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1213–7
Physical mapping of a low–copy DNA sequence in rye (Secale cereale L.). Gustafson JP, et al.
Proc Natl Acad Sci U S A 1990 Mar;87(5):1899–902
Expression cloning of a cDNA encoding the murine interleukin 4 receptor based on ligand binding. Harada N, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):857–61
Isolation of carp genes encoding major histocompatibility complex antigens. Hashimoto K, et al.
Proc Natl Acad Sci U S A 1990 Sep;87(17):6863–7
Purified glucocorticoid receptors bind selectively in vitro to a cloned DNA fragment that mediates a delayed secondary response to glucocorticoids in vivo. Hess P, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2564–8
Endothelial leukocyte adhesion molecule 1: direct expression cloning and functional interactions. Hession C, et al.
Proc Natl Acad Sci U S A 1990 Mar;87(5):1673–7
Cloning of cDNA coding for the beta chain of human complement component C4b–binding protein: sequence homology with the alpha chain. Hillarp A, et al.
Proc Natl Acad Sci U S A 1990 Feb;87(3):1183–7
Hypoxically inducible barley lactate dehydrogenase: cDNA cloning and molecular analysis. Hondred D, et al.
Proc Natl Acad Sci U S A 1990 Sep;87(18):7300–4
Twenty Drosophila visual system cDNA clones: one is a homolog of human arrestin. Hyde DR, et al.
Proc Natl Acad Sci U S A 1990 Feb;87(3):1008–12
Characterization and expression of the complementary DNA encoding rat histidine decarboxylase. Joseph DR, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(2):733–7
A nonsense mutation causing decreased levels of insulin receptor mRNA: detection by a simplified technique for direct sequencing of genomic DNA amplified by the polymerase chain reaction. Kadowaki T, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(2):658–62
Fidelity of DNA polymerases in DNA amplification. Keohavong P, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9253–7
Inactivating the beta 2–microglobulin locus in mouse embryonic stem cells by homologous recombination. Koller BH, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):8932–5
Mitochondrial genotype of a unisexual salamander of hybrid origin is unrelated to either of its nuclear haplotypes [published erratum appears in Proc Natl Acad Sci U S A 1990 May;87(10):4022] Kraus F, et al.
Proc Natl Acad Sci U S A 1990 Mar;87(6):2235–8
cDNA sequence for human erythrocyte ankyrin. Lambert S, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1730–4
Translation of LINE–1 DNA elements in vitro and in human cells. Leibold DM, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):6990–4
Direct electrophoretic detection of the allelic state of single DNA molecules in human sperm by using the polymerase chain reaction. Li H, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4580–4
Isolation of cDNA clones encoding small nuclear ribonucleoparticle–associated proteins with different tissue specificities. Li S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9778–82
Bovine cone photoreceptor cGMP phosphodiesterase structure deduced from a cDNA clone. Li TS, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(1):293–7
Construction of human chromosome 21–specific yeast artificial chromosomes. McCormick MK, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(24):9991–5
Complementary DNA encoding the human T–cell FK506–binding protein, a peptidylprolyl cis–trans isomerase distinct from cyclophilin. Maki N, et al.
Proc Natl Acad Sci U S A 1990 Jul;87(14):5440–3
Molecular cloning and characterization of the ryanodine receptor/junctional channel complex cDNA from skeletal muscle sarcoplasmic reticulum. Marks AR, et al.
Proc Natl Acad Sci U S A 1989 Nov;86(22):8683–7
Independent expression of human alpha or beta platelet–derived growth factor receptor cDNAs in a naive hematopoietic cell leads to functional coupling with mitogenic and chemotactic signaling pathways. Matsui T, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8314–8
Tissue and strain–specific patterns of endogenous proviral hypomethylation analyzed by two–dimensional gel electrophoresis. Mietz JA, et al.
Proc Natl Acad Sci U S A 1990 Mar;87(6):2269–73
Isolation and characterization of cDNA encoding the 80–kDa subunit protein of the human autoantigen Ku (p70/p80) recognized by autoantibodies from patients with scleroderma–polymyositis overlap syndrome. Mimori T, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1777–81
Expression cloning of the murine interferon gamma receptor cDNA. Munro S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9248–52
Isolation of diphtheria toxin–sensitive mouse cells from a toxin–resistant population transfected with monkey DNA. Naglich JG, et al. **Proc Natl Acad Sci U S A** 1990 Sep; 87(18):7250–4
Transcriptional regulation and DNA methylation of nuclear genes for photosynthesis in nongreen plant cells. Ngernprasirtsiri J, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7919–23
Isolation of mouse CD44 cDNA: structural features are distinct from the primate cDNA. Nottenburg C, et al.
Proc Natl Acad Sci U S A 1989 Nov;86(21):8521–5
Regulatory and structural motifs of chicken gizzard myosin light chain kinase. Olson NJ, et al.
Proc Natl Acad Sci U S A 1990 Mar;87(6):2284–8
Transfer of a yeast artificial chromosome carrying human DNA from Saccharomyces cerevisiae into mammalian cells. Pachnis V, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5109–13
Comparison of human ZFY and ZFX transcripts. Palmer MS, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1681–5
Systemic accumulation of specific mRNAs in response to wounding in poplar trees. Parsons TJ, et al.
Proc Natl Acad Sci U S A 1989 Oct;86(20):7895–9
Isolation of complementary DNA clones encoding pathogenesis–related proteins P and Q, two acidic chitinases from tobacco. Payne G, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(1):98–102
Cloning and functional expression of a human pancreatic islet glucose–transporter cDNA. Permutt MA, et al.
Proc Natl Acad Sci U S A 1989 Nov;86(22):8688–92
Molecular cloning of a cDNA encoding a major pathogenic domain of the Heymann nephritis antigen gp330. Pietromonaco S, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1811–5
A cloned DNA segment from the telomeric region of human chromosome 4p is not detectably rearranged in Huntington disease patients. Pritchard C, et al.
Proc Natl Acad Sci U S A 1990 Sep;87(18):7309–13
DNA "fingerprinting" reveals high levels of inbreeding in colonies of the eusocial naked mole–rat. Reeve HK, et al.
Proc Natl Acad Sci U S A 1990 Apr;87(7):2496–500
Cloning of cDNAs that encode human mast cell carboxypeptidase A, and comparison of the protein with mouse mast cell carboxypeptidase A and rat pancreatic carboxypeptidases. Reynolds DS, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(23):9480–4
cDNAs encoding [D–Ala2]deltorphin precursors from skin of Phyllomedusa bicolor also contain genetic information for three dermorphin–related opioid peptides. Richter K, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4836–9
Increased UV resistance in xeroderma pigmentosum group A cells after transformation with a human genomic DNA clone. Rinaldy A, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6818–22
Haplotype of multiple polymorphisms resolved by enzymatic amplification of single DNA molecules. Ruano G, et al.

Proc Natl Acad Sci U S A 1990 Aug;87(16):6296–300
Newly arisen DNA repeats in primate phylogeny. Ryan SC, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9360–4
Maize regulatory gene opaque–2 encodes a protein with a "leucine–zipper" motif that binds to zein DNA. Schmidt RJ, et al. Proc Natl Acad Sci U S A 1990 Jan;87(1):46–50
Targeted gene disruption of the endogenous c–abl locus by homologous recombination with DNA encoding a selectable fusion protein. Schwartzberg PL, et al. Proc Natl Acad Sci U S A 1990 Apr;87(8):3210–4
Molecular cloning and sequence analysis of chum salmon gonadotropin cDNAs. Sekine S, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8645–9
Characterization and functional expression in mammalian cells of genomic and cDNA clones encoding a Drosophila muscarinic acetylcholine receptor. Shapiro RA, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):9039–43
Cloning of the cDNA encoding the myosin heavy chain of a vertebrate cellular myosin. Shohet RV, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):7726–30
Use of yeast artificial chromosome clones for mapping and walking within human chromosome segment 18q21.3. Silverman GA, et al. Proc Natl Acad Sci U S A 1989 Oct; 86(19):7485–9
rbcL sequence divergence and phylogenetic relationships in Saxifragaceae sensu lato. Soltis DE, et al. Proc Natl Acad Sci U S A 1990 Jun;87(12):4640–4
ExoMeth sequencing of DNA: eliminating the need for subcloning and oligonucleotide primers. Sorge JA, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9208–12
Introduction of specific point mutations into RNA polymerase II by gene targeting in mouse embryonic stem cells: evidence for a DNA mismatch repair mechanism. Steeg CM, et al. Proc Natl Acad Sci U S A 1990 Jun; 87(12):4680–4
Isolation of a cDNA clone of the 14–kDa subunit of the signal recognition particle by cross–hybridization of differently primed polymerase chain reactions. Strub K, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9747–51
Isolation of an auxin–regulated gene cDNA expressed during the transition from G0 to S phase in tobacco mesophyll protoplasts. Takahashi Y, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9279–83
Molecular cloning and sequencing of a cDNA of rat dopa decarboxylase: partial amino acid homologies with other enzymes synthesizing catecholamines. Tanaka T, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):8142–6
Imaging of DNA sequences with chemiluminescence. Tizard R, et al. Proc Natl Acad Sci U S A 1990 Jun;87(12):4514–8
Production by activated human T cells of interleukin 4 but not interferon–gamma is associated with elevated levels of serum antibodies to activating malaria antigens. Troye–Blomberg M, et al. Proc Natl Acad Sci U S A 1990 Jul;87(14):5484–8
Genetic variation in clonal vertebrates detected by simple–sequence DNA fingerprinting. Turner BJ, et al. Proc Natl Acad Sci U S A 1990 Aug;87(15):5653–7
Human mast cell tryptase: multiple cDNAs and genes reveal a multigene serine protease family. Vanderslice P, et al. Proc Natl Acad Sci U S A 1990 May;87(10):3811–5
Amplified RNA synthesized from limited quantities of heterogeneous cDNA. Van Gelder RN, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1663–7
Molecular cloning of a cDNA encoding a human macrophage migration inhibitory factor. Weiser WY, et al. Proc Natl Acad Sci U S A 1989 Oct;86(19):7522–6
A method for difference cloning: gene amplification following subtractive hybridization. Wieland I, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2720–4
Grafting fibroblasts genetically modified to produce L–dopa in a rat model of Parkinson disease. Wolff JA, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):9011–4
Initiation of transcription on nucleosomal templates. Wolffe AP, et al. Proc Natl Acad Sci U S A 1989 Dec; 86(24):9817–21
DNA amplification is rare in normal human cells. Wright JA, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1791–5
TGA1a, a tobacco DNA–binding protein, increases the rate of initiation in a plant in vitro transcription system. Yamazaki K, et al. Proc Natl Acad Sci U S A 1990 Sep; 87(18):7035–9
Characterization of cDNA encoding a human sperm membrane protein related to A4 amyloid protein. Yan YC, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2405–8
A tissue–specific change in repetitive DNA in rats. Yokota H, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9233–7
Differential cloning of genomic DNA: cloning of DNA with an altered primary structure by in–gel competitive reassociation. Yokota H, et al. Proc Natl Acad Sci U S A 1990 Aug;87(16):6398–402
Concordant evolution of coding and noncoding regions of DNA made possible by the universal rule of TA/CG deficiency–TG/CT excess. Yomo T, et al. Proc Natl Acad Sci U S A 1989 Nov;86(21):8452–6
Cloning and sequence analysis of the cDNA for arachidonate 12–lipoxygenase of porcine leukocytes. Yoshimoto T, et al. Proc Natl Acad Sci U S A 1990 Mar;87(6):2142–6
DNA variation of the mammalian major histocompatibility complex reflects genomic diversity and population history. Yuhki N, et al. Proc Natl Acad Sci U S A 1990 Jan; 87(2):836–40
Receptor–mediated endocytosis of transferrin–polycation conjugates: an efficient way to introduce DNA into hematopoietic cells. Zenke M, et al. Proc Natl Acad Sci U S A 1990 May;87(10):3655–9
DNA adduct formation in relation to tumorigenesis in mice continuously administered 4–aminobiphenyl. Beland FA, et al. Prog Clin Biol Res 1990;340A:81–90
Z–forming DNA sequences are deletion hot–spots. Freund AM, et al. Prog Clin Biol Res 1990;340A:41–9
Analysis of DNA sequences in individual gametes: application to human genetic mapping. Li HH, et al. Prog Clin Biol Res 1990;340C:207–11 (12 ref.)
Molecular cloning and nucleotide sequence of cDNAs encoding human short chain acyl–CoA dehydrogenase and study of the molecular basis of human short chain acyl–CoA dehydrogenase deficiency. Naito E, et al. Prog Clin Biol Res 1990;321:625–32
Approaches to DNA methods for the detection of heritable mutations in humans. Satoh C, et al. Prog Clin Biol Res 1990;340C:197–206
Cloning of cDNA from induced K562 cells which can activate globin gene expression. Wu YJ, et al. Prog Clin Biol Res 1989;316A:313–21
A method for construction of long randomized open reading frames and polypeptides. Mandecki W. Protein Eng 1990 Jan;3(3):221–6
DNA hybridization in animal taxonomy: a critique from first principles. Springer M, et al. Q Rev Biol 1989 Sep; 64(3):291–318 (115 ref.)
DNA gene rearrangement studies in Hodgkin's disease and related lymphomas: a contribution to their cellular origin. Feller AC, et al. Recent Results Cancer Res 1989;117:27–34
Production of transgenic merino sheep by microinjection of ovine metallothionein–ovine growth hormone fusion genes. Murray JD, et al. Reprod Fertil Dev 1989;1(2):147–55
A plasmid–borne virulence region (2.8 kb) from Salmonella typhimurium contains two open reading frames. Norel F, et al. Res Microbiol 1989 Nov–Dec;140(9):627–30
Structural constraints and gene dynamics. Cocho G, et al. Riv Biol 1989;82(3–4):344–5, 416–7 (Eng, Ita)
DNA ploidy, tumour site, and prognosis in colorectal cancer. A flow cytometric study of paraffin–embedded tissue. Halvorsen TB, et al. Scand J Gastroenterol 1990 Feb; 25(2):141–8
Antisense RNA and DNA. Weintraub HM. Sci Am 1990 Jan;262(1):40–6 (4 ref.)
Directed evolution of nucleic acids by independent replication and selection. Abelson J. Science 1990 Aug 3; 249(4968):488–9 (12 ref.)
Democratizing the DNA sequence [news] Appenzeller T. Science 1990 Mar 2;247(4946):1030–2
An insulin–stimulated protein kinase similar to yeast kinases involved in cell cycle control. Boulton TG, et al. Science 1990 Jul 6;249(4964):64–7
Molecular cloning and expression of a complementary DNA for inositol 1,4,5–trisphosphate 3–kinase. Choi KY, et al. Science 1990 Apr 6;248(4951):64–6
No excess of homozygosity at loci used for DNA fingerprinting. Devlin B, et al. Science 1990 Sep 21; 249(4975):1416–20
The Molecule of the Year. Guyer RL, et al. Science 1989 Dec 22;246(4937):1543–6
Molecular characterization of a functional cDNA encoding the rat substance P receptor. Hershey AD, et al. Science 1990 Feb 23;247(4945):958–62
The Molecule of the Year [editorial] Koshland DE Jr. Science 1989 Dec 22;246(4937):1541
High–resolution mapping of human chromosome 11 by in situ hybridization with cosmid clones. Lichter P, et al. Science 1990 Jan 5;247(4938):64–9
A new member of the leucine zipper class of proteins that binds to the HLA DR alpha promoter. Liou HC, et al. Science 1990 Mar 30;247(4950):1581–4
1,25–dihydroxyvitamin D–responsive element and glucocorticoid repression in the osteocalcin gene. Morrison NA, et al. Science 1989 Dec 1;246(4934):1158–61
Maine case deals blow to DNA fingerprinting [news] Norman C. Science 1989 Dec 22;246(4937):1556–8
RAG–1 and RAG–2, adjacent genes that synergistically activate V(D)J recombination. Oettinger MA, et al. Science 1990 Jun 22;248(4962):1517–23
Genomic sequencing and methylation analysis by ligation mediated PCR. Pfeifer GP, et al. Science 1989 Nov 10; 246(4931):810–3
Closing the gap between proteins and DNA [news] Pool R. Science 1990 Jun 29;248(4963):1609
Watson versus Japan [news] Roberts L. Science 1989 Nov 3;246(4930):576, 578
Unusual pattern of accumulation of mRNA encoding EGF–related protein in sea urchin embryos. Yang Q, et al. Science 1989 Nov 10;246(4931):806–8
Intragenic interspecific complementation of glucose 6–phosphate dehydrogenase in human–hamster cell hybrids. Town M, et al. Somat Cell Mol Genet 1990 Mar; 16(2):97–108
The molecular nature of allelic diversity for two models of balancing selection. Gillespie JH. Theor Popul Biol 1990 Feb;37(1):91–109
T–cell receptor beta–chain DNA polymorphism frequencies in healthy HLA–DR homozygotes. Charmley P, et al. Tissue Antigens 1990 Apr;35(4):157–64
HLA typing by DNA–RFLP: identification of a novel DR2–associated RFLP in a Thai individual. Howell WM, et al. Tissue Antigens 1990 Apr;35(4):189–92
Characterization of a novel, human cytotoxic lymphocyte–specific serine protease cDNA clone (CSP–C). Klein JL, et al. Tissue Antigens 1990 May;35(5):220–8
A simple and rapid method for HLA–DQA1 genotyping by digestion of PCR–amplified DNA with allele specific restriction endonucleases. Maeda M, et al. Tissue Antigens 1989 Nov;34(5):290–8
Automated DNA sequencing methods for detection and analysis of mutations: applications to the Lesch–Nyhan syndrome. Edwards A, et al. Trans Assoc Am Physicians 1989;102:185–94
Molecular analysis of graft survival in renal transplantation by DNA typing of HLA class II antigens. Tsuji K, et al. Transplant Proc 1987 Feb;19(1 Pt 1):662–3
Is genetic code redundancy related to retention of structural information in both DNA strands? Zull JE, et al. Trends Biochem Sci 1990 Jul;15(7):257–61 (12 ref.)
DNA ploidy and cell–cycle analysis in pancreatic and ampullary carcinoma: flow cytometric study of formalin–fixed paraffin–embedded tissue. Baisch H, et al. Virchows Arch [A] 1990;417(2):145–50
The replication of viral and cellular DNA in human herpesvirus 6–infected cells. Di Luca D, et al. Virology 1990 Mar;175(1):199–210
Expression of the outer capsid protein, VP2, from a full length cDNA clone of genome segment 2 of bluetongue serotype 1 from South Africa, using both Sp6 and vaccinia expression systems and a comparison of the nucleic acid sequence of this segment with those of other serotypes. Wade–Evans AM, et al. Virus Res 1990 Mar;15(3):213–29
Production of bovine rhodopsin by mammalian cell lines expressing cloned cDNA: spectrophotometry and subcellular localization. Nathans J, et al. Vision Res 1989; 29(8):907–14
A rapid method for partial mRNA and DNA sequence analysis of the photosystem IIpsbA gene. Naber D, et al. Z Naturforsch [C] 1990 May;45(5):418–22
Quantitative and qualitative analysis of DNA extracted from postmortem muscle tissues. Ogata M, et al. Z Rechtsmed 1990;103(6):397–406
[Synthesis, cloning and expression of human alpha–atrial natriodiuretic peptide gene in yeast system] Lin H. Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1990 Feb; 12(1):19–24 (Eng. Abstr.) (Chi)
[Synthesis and cloning of V gamma 3 cDNA of monoclonal antibody] Shang FR, et al. I Chuan Hsueh Pao 1989; 16(3):213–8 (Eng. Abstr.) (Chi)
[Procedure and initial results of presymptomatic DNA studies in Huntington's chorea (letter)] Hertogh CM, et al. Ned Tijdschr Geneeskd 1990 Jun 16;134(24):1193 (Dut)
[Cloning and sequence analysis of cDNA of common precursors of three hypothalamic neuropeptides immunologically related to human somatocrinin 1–37, alpha melanotropin and salmon melanin–concentrating hormone], Breton C, et al. C R Acad Sci [III] 1989;309(20):749–54 (Eng. Abstr.) (Fre)
[Cloning of the cDNA, while encoding a hypothalamic neuropeptide in the rat, related to the melanin–concentrating hormone in the salmon] Breton C, et al. C R Soc Biol (Paris) 1989;183(3):216–22 (Eng. Abstr.) (Fre)
[Sex determination of human blood micro–stains and single hairs using specific DNA amplification with polymerase chain reaction] Muellener D, et al. Arch Kriminol 1989 Nov–Dec;184(5–6):175–85 (Eng. Abstr.) (Ger)
[Species identification by fragmented DNA] Baur C, et al. Beitr Gerichtl Med 1989;47:165–70 (Eng. Abstr.) (Ger)
[Forensic use of polymorphism St 14.1] Rüter R, et al. Beitr Gerichtl Med 1989;47:171–4 (Eng. Abstr.) (Ger)
[Prenatal diagnosis] Huber JC. Gynakol Rundsch 1989;29 Suppl 2:248–50 (Ger)
[Principles of DNA diagnosis] Moser H. Klin Monatsbl Augenheilkd 1990 May;196(5):265–8 (Eng. Abstr.) (Ger)
[X–chromosomal hereditary night blindness: detection of carriers by segregation analysis with linked DNA markers] Orth U, et al. Klin Monatsbl Augenheilkd 1990 May; 196(5):269–72 (Eng. Abstr.) (Ger)
[DNA polymorphism of the alpha 2–macroglobulin gene in patients with chronic obstructive lung disease and serum alpha 2–macroglobulin deficiency] Poller W, et al. Verh Dtsch Ges Inn Med 1989;95:7–12 (Ger)
[Molecular biology in the differentiation between pathogenic and apathogenic isolates of Entamoeba histolytica] Tannich E, et al. Z Gastroenterol [Verh] 1990 Apr;25:71–4 (Ger)
[Use of DNA polymorphism in forensic paternity evaluation] Henke L, et al. Z Rechtsmed 1990;103(4):235–48 (Eng. Abstr.) (Ger)
[Possibilities of prenatal diagnosis in hemophilia A based on DNA analysis] Németi M, et al. Orv Hetil 1990 Jul 29; 131(30):1635–8 (Eng. Abstr.) (Hun)
[Medical application of genetics] Takaku F. Idengaku Zasshi 1989 Oct;64(5):391–405 (Jpn)
[The structure and function of hepatocyte growth factor] Hagiya M, et al. Nippon Rinsho 1990 Jul;48(7):1583–90 (12 ref.) (Jpn)
[Molecular biological approach to orthopaedic research—analysis of cartilage collagens] Kimura T, et al. Nippon Seikeigeka Gakkai Zasshi 1989 Sep;63(9):1132–44 (Jpn)
[Chromosome and molecular genetics—molecular analysis of

aniridia–Wilms' tumor syndrome] Fukushima Y. **Rinsho Byori** 1989 Feb;Spec No 80:38–46 **(Jpn)**

[The new-type gene map of human chromosomes] Nakai H, et al. **Rinsho Byori** 1989 Feb;Spec No 80:21–37 **(Jpn)**

[Functional significance of bent DNA in transcriptional regulation] Ohyama T. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(3):248–51 **(Jpn)**

[Genetic variation and genetic diseases] Børresen AL, et al. **Tidsskr Nor Laegeforen** 1989 Oct 20;109(29):3003–9 (Eng. Abstr.) **(Nor)**

[Study of DNA restriction fragment length polymorphism in the diagnosis of mucoviscidosis] Maciejko D, et al. **Pediatr Pol** 1989 Feb;64(2):81–7 (Eng. Abstr.) **(Pol)**

[DNA in the circulatory system of patients with systemic lupus erythematosus] Jendryczko A, et al. **Pol Arch Med Wewn** 1987 Jan–Feb;77(1–2):47–52 (31 ref.) **(Pol)**

[The role of single-stranded DNA in the integration of SV40 genome into cellular DNA] Popov LS. **Biokhimiia** 1989 Nov;54(11):1815–20 (Eng. Abstr.) **(Rus)**

[Chemical–enzymatic synthesis and cloning of DNA, coding the signal for secretion of proteins in gram–negative bacteria] Dobrynin VN, et al. **Bioorg Khim** 1989 Sep; 15(9):1232–8 (Eng. Abstr.) **(Rus)**

[Photosystem II of rye. Nucleotide sequence of genes psbE, psbF, psbL and OPC40 of chloroplast DNA] Kolosov VL, et al. **Bioorg Khim** 1989 Sep;15(9):1284–6 (Eng. Abstr.) **(Rus)**

[Cyclic GMP phosphodiesterase from bovine retina. Amino acid sequence of beta–subunit and nucleotide sequence of corresponding cDNA] Lipkin VM, et al. **Bioorg Khim** 1990 Jan;16(1):118–20 (Eng. Abstr.) **(Rus)**

[Study of expression of Na+,K+–ATPase subunit genes in the human brain using cDNA libraries] Makarevich OI, et al. **Bioorg Khim** 1990 Jan;16(1):52–8 (Eng. Abstr.) **(Rus)**

[Obtaining unidirectional deletions in a plasmid using a DNA–"protector" and Bal31 exonuclease] Nurminskiĭ DI, et al. **Bioorg Khim** 1989 Aug;15(8):1137–9 (Eng. Abstr.) **(Rus)**

[Cloning and determination of the primary structure of cDNA, coding the central part of elongation factor 2 from the rat liver] Oleĭnikov AV, et al. **Bioorg Khim** 1989 Sep; 15(9):1239–45 (Eng. Abstr.) **(Rus)**

[Inclusion of biotinylated analogs of dUTP and dCTP in DNA by DNA–polymerases. Cloning DNA fragments, containing biotinylated deoxyribouridine in E. coli] Oshevskiĭ SI, et al. **Bioorg Khim** 1989 Aug;15(8):1091–9 (Eng. Abstr.) **(Rus)**

[Expression of human tissue–type plasminogen activator cDNA in human cultured cells controlled by different eukaryotic promoters] Aleshkov SB, et al. **Dokl Akad Nauk SSSR** 1989;309(3):721–4 **(Rus)**

[Unusual organization of the leader and terminal regions of Drosophila mobile genetic element mdg1] Cherkasova VA, et al. **Dokl Akad Nauk SSSR** 1990;310(6):1485–8 **(Rus)**

[DNA–DNA hybridization and the phylogenetic relations in 2 genera of voles, Alticola and Clethrionomys (Microtinae: Rodentia)] Gileva EA, et al. **Dokl Akad Nauk SSSR** 1990;311(2):477–80 **(Rus)**

[The structure of the cDNA and the chromosomal localization of the gene of the immunoglobulin lambda–light chains in the American mink] Khlebodarova TM, et al. **Dokl Akad Nauk SSSR** 1990;311(2):487–91 **(Rus)**

[Multiple DNA recognition sites by sequence–specific DNA–binding proteins in the region of replication initiation site located 5'–end upstream to the chicken alpha–globin gene domain] Kintsurashvili EG, et al. **Dokl Akad Nauk SSSR** 1990 Jan–Feb;310(1):227–8 **(Rus)**

[A family of mirror B1–like sequences from human genome] Korotkov EV. **Dokl Akad Nauk SSSR** 1990;311(1):238–42 **(Rus)**

[Cloning of the cDNA coding for human prointerleukin–1 alpha and prointerleukin–1 beta] Kotenko SV, et al. **Dokl Akad Nauk SSSR** 1989;309(4):1005–8 **(Rus)**

[A catalytic component of calmodulin–independent adenylate cyclase from bovine brain. Amino acid sequence of a protein and nucleotide sequence of corresponding cDNA] Lipkin VM, et al. **Dokl Akad Nauk SSSR** 1989; 307(6):1502–6 **(Rus)**

[Cloning of cDNA fragment of human brain kainate receptor] Smirnova TM, et al. **Dokl Akad Nauk SSSR** 1989; 309(3):745–8 **(Rus)**

[Structural characteristics of gene family coding for major polypeptides in the squid lens] Zinov'eva RD, et al. **Dokl Akad Nauk SSSR** 1990 Jan–Feb;310(1):222–7 **(Rus)**

[Various types of structural organization of L1 transcripts in the rat brain] Akulichev AV, et al. **Genetika** 1989 Sep; 25(9):1699–702 (Eng. Abstr.) **(Rus)**

[The use of DNA from phage M13 for the analysis of interindividual polymorphism of human DNA as demonstrated by a population study in Krasnodar city] Barysheva EV, et al. **Genetika** 1989 Nov;25(11):2079–82 (Eng. Abstr.) **(Rus)**

[The role of lipids during exposure of mutant cells of Candida tropicalis D–2 to heterologous DNA after treatment with calcium cations] Danilenko II, et al. **Genetika** 1990 Mar; 26(3):567–9 (Eng. Abstr.) **(Rus)**

[Study of transcription of the DNA sequence of a mts271 clone in various tumor and normal mouse cells] Grigorian MS, et al. **Genetika** 1989 Jun;25(6):993–1000 (Eng. Abstr.) **(Rus)**

[Theoretical analysis of mechanisms of spontaneous and induced mutations in DNA based on repeated sequences] Kolchanov NA, et al. **Genetika** 1989 Sep;25(9):1690–8 (Eng. Abstr.) **(Rus)**

[Analysis of sequences from human brain cDNA gene bank which are functionally active in nervous tissue and tumor cells] Slominskiĭ PA, et al. **Genetika** 1989 Nov; 25(11):1925–36 (Eng. Abstr.) **(Rus)**

[Nuclear protein factors binding with specific DNA sequences] Turpaev KT, et al. **Genetika** 1990 May; 26(5):804–16 (118 ref.) (Eng. Abstr.) **(Rus)**

[Changes in the properties of intercalary heterochromatin in Drosophila melanogaster induced by position effect modifiers] Zhimulev IF, et al. **Genetika** 1989 Sep; 25(9):1589–98 (Eng. Abstr.) **(Rus)**

[Alu–like sequences in the regions of replication initiation in plasmids p15A and R6K] Korotkov EV. **Izv Akad Nauk SSSR [Biol]** 1990 May–Jun;(3):359–65 (Eng. Abstr.) **(Rus)**

[Protein factors specifically binding to the regulatory elements of non–transcribed spacer of rat ribosomal genes] Bogomolova AE, et al. **Mol Biol (Mosk)** 1989 Sep–Oct; 23(5):1332–9 (Eng. Abstr.) **(Rus)**

[Topoisomerase I from human placenta. Functional activity of products of expression of cloned cDNA fragments] Bronshteĭn IB, et al. **Mol Biol (Mosk)** 1989 Nov–Dec; 23(6):1553–7 (Eng. Abstr.) **(Rus)**

[Local amplification of nucleic acids—a new method of analysis] Debabov VG. **Mol Biol (Mosk)** 1990 Mar–Apr; 24(2):304–8 (31 ref.) (Eng. Abstr.) **(Rus)**

[Cloning of tobacco DNA fragment with promoter properties in a transgenic plant] Domanskiĭ NN, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1391–9 (Eng. Abstr.) **(Rus)**

[Characteristics of DNA sequences in the sites of permanent attachment to the nuclear matrix located in the vicinity of replication initiation site] Kalandadze AG, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1309–20 (Eng. Abstr.) **(Rus)**

[ID–similar sequences in various types of DNA clones] Korotkov EV, et al. **Mol Biol (Mosk)** 1989 Jul–Aug; 23(4):1113–23 (Eng. Abstr.) **(Rus)**

[Divergence of unique DNA sequences of bivalve mollusks from Mytilinae subfamily (Bivalvia mytilidae)] Miliutina IA, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1373–81 (Eng. Abstr.) **(Rus)**

[Chromosomal proteins in chick embryo erythrocytes on transcriptionally active and inactive genes] Postnikov IuV, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1682–91 (Eng. Abstr.) **(Rus)**

[Genome organization and primary structure of the BamHI fragment of highly repetitive DNA from Hordeum vulgare] Salina EA, et al. **Mol Biol (Mosk)** 1990 May–Jun; 24(3):729–35 (Eng. Abstr.) **(Rus)**

[New elements in the structure of binding sites of glucocorticoid–receptor complex in hormone–regulated genes] Seleĭtsov IA, et al. **Mol Biol (Mosk)** 1990 May–Jun; 24(3):716–28 (Eng. Abstr.) **(Rus)**

[Expression of ceruloplasmin gene in mammalian organs from the data of hybridization analysis with complementary DNA probes] Shvartsman AL, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):657–62 (Eng. Abstr.) **(Rus)**

[Mechanism of integration of cellular and viral DNA. Possible role of integration in the carcinogenesis] Stoliarov ZE. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):17–22 (24 ref.) (Eng. Abstr.) **(Rus)**

[Characteristic of segments of transgenic animal genomes, adjacent to integrated sequences of foreign DNA] Tarantul VZ, et al. **Mol Biol (Mosk)** 1989 Jul–Aug;23(4):1036–40 (Eng. Abstr.) **(Rus)**

[Autonomic replication of plasmids containing DNA fragments from rat liver alpha–polymerase complex] Timchenko NA, et al. **Mol Biol (Mosk)** 1990 May–Jun; 24(3):814–23 (Eng. Abstr.) **(Rus)**

[Construction of libraries of structural genes (cDNA) and "jumping" gene libraries in lambda vectors] Zabarovskiĭ ER, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1205–20 (25 ref.) (Eng. Abstr.) **(Rus)**

[Cloning and structural analysis of cDNA coding for human prointerleukin–1 alpha and prointerleukin–1 beta] Kotenko SV, et al. **Mol Gen Mikrobiol Virusol** 1989 Dec;(12):13–7 (Eng. Abstr.) **(Rus)**

[Tick–borne encephalitis virus: primary structure of DNA copies of the genes for strain 205 structural proteins] Safronov PF, et al. **Mol Gen Mikrobiol Virusol** 1990 Jan; (1):6–13 (Eng. Abstr.) **(Rus)**

[Polymerization of DNA fragments coding epitopes of the surface antigen of hepatitis B in Escherichia coli cells] Sergienko OV, et al. **Mol Gen Mikrobiol Virusol** 1989 Oct; (10):24–9 (Eng. Abstr.) **(Rus)**

[Synthesis and expression of DNA fragments, coding epitopes of the surface antigen of the hepatitis B virus in Escherichia coli cells] Sergienko OV, et al. **Mol Gen Mikrobiol Virusol** 1989 Sep;(9):39–42 **(Rus)**

[Cloning genes, induced by x–ray irradiation in rat liver cells] Timchenko LT, et al. **Mol Gen Mikrobiol Virusol** 1989 Jul; (7):35–8 (Eng. Abstr.) **(Rus)**

[Cloning of chloroplast psbA and rbcL–genes from cotton Gossipium hirsutum] Ul'masov TN, et al. **Mol Gen Mikrobiol Virusol** 1989 Aug;(8):17–20 (Eng. Abstr.) **(Rus)**

[Polymorphism of nucleotide sequences of human genomic DNA linked to a mucoviscidosis locus] Voronina OV, et al. **Mol Gen Mikrobiol Virusol** 1990 Apr;(4):14–7 (Eng. Abstr.) **(Rus)**

[Genomic "dactyloscopy" in the expertise of disputed paternity and the determination of biological relationship] Ivanov PL, et al. **Sud Med Ekspert** 1990 Apr–Jun; 33(2):36–8 (Eng. Abstr.) **(Rus)**

[The possibility of the incorporation of macromolecules, including exogenous DNA, into the germ cells of male mice. The liposome method and Ca–P coprecipitation method] Baranov VS, et al. **Tsitol Genet** 1990 Mar–Apr; 24(2):52–5 (Eng. Abstr.) **(Rus)**

[The variability of the telomeric and of a number of internal regions of Drosophila chromosomes according to the intensity of hybridization in situ with labelled probes] Lelbovich BA, et al. **Tsitol Genet** 1990 Jan–Feb;24(1):23–8 (Eng. Abstr.) **(Rus)**

[Use of DNA analysis in the diagnosis and prevention of hemophilia A] Gécz J, et al. **Bratisl Lek Listy** 1990 Mar; 91(3):219–24 (Eng. Abstr.) **(Slo)**

[Use of dystrophin c–DNA for the direct diagnosis of Duchenne muscular dystrophy in female carriers] Baiget M, et al. **Neurologia** 1989 Oct;4(8):268–76 (Eng. Abstr.) **(Spa)**

[Patients with gastric cancer: analysis of DNA ploidy patterns] de Aretxabala X, et al. **Rev Med Chil** 1988 Oct; 116(10):977–80 (Eng. Abstr.) **(Spa)**

[DNA diagnosis of mitochondrial diseases is now possible] Larsson NG, et al. **Lakartidningen** 1989 Nov 29; 86(48):4235–6 **(Swe)**

HISTORY

On tritium, DNA, and serendipity. Painter RB. **Radiat Res** 1990 Feb;121(2):117–9

The slow diffusion of the DNA paradigm into biology textbooks. Gaster B. **Trends Biochem Sci** 1990 Aug; 15(8):325–7

IMMUNOLOGY

Low avidity antibodies to dsDNA as a diagnostic tool. Nossent JC, et al. **Ann Rheum Dis** 1989 Sep;48(9):748–52

A role for immunogenic DNA in the pathogenesis of systemic lupus erythematosus. Pisetsky DS, et al. **Arthritis Rheum** 1990 Feb;33(2):153–9

DNA autosensitivity in two Japanese sisters. Sugai S, et al. **Arthritis Rheum** 1990 Feb;33(2):287–92

Measurement of increases in anti–double–stranded DNA antibody levels as a predictor of disease exacerbation in systemic lupus erythematosus. A long–term, prospective study. ter Borg EJ, et al. **Arthritis Rheum** 1990 May; 33(5):634–43

Antibody recognition of common epitopes on Z–DNA and native DNA brominated under high salt. Hasan R, et al. **Biochem Int** 1990;20(6):1077–88

Antibody–nucleic acid complexes. Oligo(dG)n and –(dT)n specificities associated with anti–DNA antibodies from autoimmune MRL mice. Munns TW, et al. **Biochemistry** 1989 Dec 26;28(26):10048–54

Antibodies against (1R,2R)–cyclohexanediamineplatinum(II)–DNA adduct recognize the conformational differences of isomeric analogues of cyclohexanediamine. Yamada H, et al. **Biochim Biophys Acta** 1990 Jul 30;1049(3):298–302

Molecular mechanics and antibody binding in the structural analysis of polycyclic aromatic hydrocarbon–diol–epoxide—DNA adducts. Weston A, et al. **Carcinogenesis** 1990 May;11(5):859–64

Reactive oxygen species modify human DNA, eliciting a more discriminating antigen for the diagnosis of systemic lupus erythematosus. Blount S, et al. **Clin Exp Immunol** 1990 Sep;81(3):384–9

Standards for ANA and anti–DNA. Feltkamp TE. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):74–8

A comparison of assays used for the detection of antibodies to DNA. Smeenk R, et al. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):63–72 (55 ref.)

Antibodies to DNA in patients with systemic lupus erythematosus. Their role in the diagnosis, the follow–up and the pathogenesis of the disease. Smeenk R, et al. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):100–10 (49 ref.)

Determination of anti–ds–DNA antibodies by three different methods: comparison of sensitivity, specificity and correlation with lupus activity index (LAI). Tziofas AG, et al. **Clin Rheumatol** 1990 Jun;9(2):186–92

The role of anti–DNA antibodies in lupus nephritis. Waer M. **Clin Rheumatol** 1990 Mar;9(1 Suppl 1):111–4 (20 ref.)

Structural patterns in anti–DNA antibodies from MRL/lpr mice. Radic MZ, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 2:933–46

NK cell–induced cytotoxicity is dependent on a Ca2+ increase in the target. McConkey DJ, et al. **FASEB J** 1990 Jun;4(9):2661–4

Antibodies to DNAs chemically modified with osmium structural probes. Paleček E, et al. **Gen Physiol Biophys** 1989 Oct;8(5):491–504

Early induction of anti–double–stranded DNA antibodies in lupus–prone MRL mice inoculated with Ly–24+ cells cloned from lymph node cells of an MRL/Mp–lpr/lpr mouse: possible effect of putative cytokines produced by

cloned Ly-24+ cells. Kanai Y, et al. **Immunol Lett** 1990 Mar-Apr;24(1):49-55

A novel trait of naturally occurring anti-DNA antibodies: dissociation from immune complexes in neutral 0.3-0.5 M NaCl. Kanai Y, et al. **Immunol Lett** 1989 Oct;22(4):293-9

Immunologic tolerance to DNA in B cell lines from both normal and autoimmune mice. Aldo-Benson M, et al. **Immunol Res** 1989;8(4):263-70

Naturally occurring anti-native DNA antibodies in SLE binding Z-DNA. Sehgal V, et al. **Indian J Med Res** 1990 Jun;92:158-62

Prevention of lupus nephritis by antigens that cross-react with DNA. Naparstek Y, et al. **Isr J Med Sci** 1989 Dec; 25(12):677-8

Interactions of anti-poly[d(G-br5C)] IgG with synthetic, viral and cellular Z DNAs. Zarling DA, et al. **J Biomol Struct Dyn** 1984 Mar;1(5):1081-107

Antideoxyribonucleic acid antibodies in Graves' disease. McDermott MT, et al. **J Clin Endocrinol Metab** 1990 Aug; 71(2):509-11

Molecular characterization of a somatically mutated anti-DNA antibody bearing two systemic lupus erythematosus-related idiotypes. Davidson A, et al. **J Clin Invest** 1990 May;85(5):1401-9

A natural autoantibody is encoded by germline heavy and lambda light chain variable region genes without somatic mutation. Siminovitch KA, et al. **J Clin Invest** 1989 Nov; 84(5):1675-8

Anti-DNA antibodies from autoimmune mice arise by clonal expansion and somatic mutation. Shlomchik M, et al. **J Exp Med** 1990 Jan 1;171(1):265-92

Polyspecific binding of Escherichia coli beta-galactosidase by murine antibodies to DNA. Pisetsky DS, et al. **J Immunol** 1989 Dec 1;143(11):3609-13

A conserved anti-DNA antibody idiotype associated with nephritis in murine and human systemic lupus erythematosus. Weisbart RH, et al. **J Immunol** 1990 Apr 1;144(7):2653-8

A new ELISA for the detection of double-stranded DNA antibodies. Emlen W, et al. **J Immunol Methods** 1990 Aug 28;132(1):91-101

Immunoreactivity of antibodies raised against synthetic peptide fragments predicted from mid portions of dystrophin cDNA. Wakayama Y, et al. **J Neurol Sci** 1990 Jul;97(2-3):241-50

Sex hormone involvement in the induction of experimental systemic lupus erythematosus by a pathogenic anti-DNA idiotype in naive mice. Blank M, et al. **J Rheumatol** 1990 Mar;17(3):311-7

Immune suppression of anti-DNA antibody production using anti-idiotypic antibody-neocarzinostatin conjugates. Sasaki T, et al. **Methods Enzymol** 1989;178:422-32

The role of germline gene expression and somatic mutation in the generation of autoantibodies to DNA. Eilat D. **Mol Immunol** 1990 Mar;27(3):203-10 (67 ref.)

Base sequence specificity of a monoclonal antibody binding to (6-4)photoproducts. Matsunaga T, et al. **Mutat Res** 1990 May;235(3):187-94

Binding of anti-DNA antibodies to glomerular heparan sulfate: a new clue for the pathogenesis of SLE nephritis? Berden JH, et al. **Nephrologie** 1989;10(3):127-32 (36 ref.)

Potential pathogenic role of cell-surface polypeptides, cross-reactive with DNA, in systemic lupus erythematosus. Jacob L, et al. **Nephrologie** 1989;10(3):139-40 (10 ref.)

Pathogenic anti-DNA autoantibody-inducing T helper cell lines from patients with active lupus nephritis: isolation of CD4-8- T helper cell lines that express the gamma delta T-cell antigen receptor. Rajagopalan S, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7020-4

Are retroviruses involved in the pathogenesis of SLE? Evidence demonstrated by molecular analysis of nucleic acids from SLE patients' plasma. Krapf FE, et al. **Rheumatol Int** 1989;9(3-5):115-21

The importance of the pathogenic 16/6 idiotype in the induction of SLE in naive mice. Blank M, et al. **Scand J Immunol** 1990 Jan;31(1):45-52

Anti-DNA antibodies induced by BK virus inoculations. Demonstration of the specificities for eukaryotic dsDNA and synthetic polynucleotides. Fredriksen K, et al. **Scand J Immunol** 1990 Aug;32(2):197-203

DNA skin tests in patients with definite or suspected systemic lupus erythematosus and in dermatological control patients. A long-term follow-up study. Stephansson EA, et al. **Scand J Rheumatol** 1989;18(6):419-26

dsDNA—measurement by enzyme linked immunosorbent assay and clinical usefulness. Boey ML. **Singapore Med J** 1989 Jun;30(3):236-7

Evaluation of an ELISA method for the measurement of antibodies to dsDNA. Mohan TC, et al. **Singapore Med J** 1989 Jun;30(3):242-5

Crossreactivity of antibodies directed against cardiolipin, DNA, endothelial cells and blood platelets. Hasselaar P, et al. **Thromb Haemost** 1990 Apr 12;63(2):169-73

Are the clonotypes of serum IgG anti-DNA antibodies associated with lupus nephritis in humans? Hatakeyama A, et al. **Tohoku J Exp Med** 1990 Mar;160(3):213-21

[Does extracellular DNA play a pathogenic role in the development of lupus glomerulonephritis?] Fournié GJ, et al. **Nephrologie** 1989;10(3):133-7 (65 ref.) (Eng. Abstr.) (Fre)

[Optimizing the clinical value of polyreactive autoantibodies to double-stranded DNA] Haberhauer G, et al. **Z Gesamte Inn Med** 1989 Nov 1;44(21):652-4 (Eng. Abstr.) (Ger)

[Is SLE an autoimmune disease? Role of pathogenic anti-DNA idiotypes?] Shoenfeld Y. **Harefuah** 1989 Nov 15;117(10):333-8 (65 ref.) (Heb)

[Analysis of circulating immune complexes with reference to DNA complexes in patients on hemodialysis and in those with chronic renal failure] Koziol M, et al. **Pol Arch Med Wewn** 1988 Dec;80(6):315-22 (Eng. Abstr.) (Pol)

[Anti-deoxyribonucleic acid antibodies in podagra] Nikolenko IuI, et al. **Revmatologiia (Moskva)** 1989 Apr-Jun;(2):30-5 (Eng. Abstr.) (Rus)

[Antibodies to DNA and deoxynucleoprotein in Sjögren's disease and syndrome] Nasonova VA, et al. **Ter Arkh** 1990; 62(1):46-52 (Rus)

[The biophysical chemistry of complement-fixing DNA-anti-DNA immune complexes] Taylor RP. **Ter Arkh** 1990;62(5):27-32 (12 ref.) (Rus)

ISOLATION & PURIFICATION

Comparative study of automated versus manual extraction of DNA from clinical specimens. Taylor SA, et al. **Am J Clin Pathol** 1990 Jun;93(6):749-53

DNA isolation and Southern analysis: a clinician's view. Borst M, et al. **Am J Med Sci** 1990 May;299(5):356-60 (10 ref.)

Quantitation of DNA fragmentation using fiberglass filters. Chow SC, et al. **Anal Biochem** 1989 Nov 15;183(1):42-5

Computer-controlled discontinuous rotating gel electrophoresis for separation of very large DNA molecules. Gekeler V, et al. **Anal Biochem** 1989 Sep; 181(2):227-33

Isolation of high-molecular-weight DNA from insects. Henry JM, et al. **Anal Biochem** 1990 Feb 15;185(1):147-50

Purification of human genomic DNA from whole blood using sodium perchlorate in place of phenol. Johns MB Jr, et al. **Anal Biochem** 1989 Aug 1;180(2):276-8

Simultaneous purification of DNA and RNA from small numbers of eukaryotic cells. Karlinsey J, et al. **Anal Biochem** 1989 Aug 1;180(2):303-6

A solid-phase extraction procedure for DNA purification. McCormick RM. **Anal Biochem** 1989 Aug 15;181(1):66-74

Rapid isolation of high-molecular-weight DNA from agarose gels. Pollman MJ, et al. **Anal Biochem** 1989 Aug 15;181(1):12-7

Use of the diaminobenzoic acid fluorescence assay in conjunction with uv absorbance as a means of quantifying and ascertaining the purity of a DNA preparation. Schy WE, et al. **Anal Biochem** 1989 Aug 1;180(2):314-8

Use of silica gel polymer for DNA extraction with organic solvents. Tilzer L, et al. **Anal Biochem** 1989 Nov 15; 183(1):13-5

Isolation of a cDNA clone and localization of the human glutathione S-transferase 3 genes to chromosome bands 11q13 and 12q13-14. Board PG, et al. **Ann Hum Genet** 1989 Jul;53 (Pt 3):205-13

Characterization of a cDNA encoding a new member of the glucocorticoid-responsive cytochromes P450 in human liver. Schuetz JD, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):355-65

Synthesis and use of a novel N-formyl peptide derivative to isolate a human N-formyl peptide receptor cDNA. Boulay F, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):1103-9

Isolation and characterization of a partial cDNA for a human sialyltransferase. Lance P, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):225-32

Isolation of a cDNA that hybrid selects antiproliferative mRNA from rat liver. McClung JK, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1316-22

Isolation and sequencing of rat liver bilirubin UDP-glucuronosyltransferase cDNA: possible alternate splicing of a common primary transcript. Sato H, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):260-4

Isolation and characterization of a molecular cDNA clone of a human mRNA from interferon-treated cells encoding nucleolar protein B23, numatrin. Zhang XX, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):176-84

Isolation and sequence analysis of a cDNA encoding rat liver alpha-L-fucosidase. Fisher KJ, et al. **Biochem J** 1989 Dec 15;264(3):695-701

Isolation and characterization of the mouse liver/bone/kidney-type alkaline phosphatase gene. Terao M, et al. **Biochem J** 1990 Jun 15;268(3):641-8

Isolation and characterization of a novel growth hormone cDNA from chum salmon (Oncorhynchus keta). Sekine S, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):117-20

Efficient transfer of DNA to nylon membranes using vacuum blotting in presence of alkali. Aguinaga M del P, et al. **Biotechniques** 1989 Nov-Dec;7(10):1077-9

Polymerase chain reaction amplification products separated on rehydratable polyacrylamide gels and stained with silver. Allen RC, et al. **Biotechniques** 1989 Jul-Aug; 7(7):736-44

A method for horizontal polyacrylamide slab gel electrophoresis. Bellomy GR, et al. **Biotechniques** 1989 Jan; 7(1):16, 19-21

An alternative to the dry ice/ethanol bath for the precipitation of nucleic acids. Bird RC, et al. **Biotechniques** 1989 Apr;7(4):337-8

Avoiding woody plant DNA sample loss when loading submarine agarose gels for electrophoresis. Culpepper JH, et al. **Biotechniques** 1990 Feb;8(2):171-2

Use of photobiotinylated deoxyoligonucleotides to detect cloned DNA. Denman RB, et al. **Biotechniques** 1989 Feb; 7(2):138-41

A rapid method for confirming cell line identity: DNA "fingerprinting" with a minisatellite probe from M13 bacteriophage. Devor EJ, et al. **Biotechniques** 1988 Mar; 6(3):200, 202

Rapid purification of PCR products for DNA sequencing using Sepharose CL-6B spin columns. DuBose RF, et al. **Biotechniques** 1990 Mar;8(3):271-4

A protocol for DNA fragment extraction from polyacrylamide gels. Dybczynski I, et al. **Biotechniques** 1988 Nov-Dec;6(10):924-6

Single copy gene detection requiring minimal cell numbers. Feddersen RM, et al. **Biotechniques** 1989 Jan;7(1):44-9

A modified protocol for the PZ523 spin columns: a legitimate purification alternative for plasmid DNA. Felsenstein KM. **Biotechniques** 1988 Oct;6(9):847-8

A simple method to increase the resilience of DNA sequencing gels. Hampsey DM. **Biotechniques** 1989 Feb; 7(2):150

A procedure for electro-elution of DNA from agarose gels. He M, et al. **Biotechniques** 1988 Sep;6(8):728, 730

A rapid visual method for the identification of 4- or 6-base restriction endonuclease sites. Hodgson CP. **Biotechniques** 1989 Feb;7(2):148-9

A method for enhancing the visibility of stained DNA. Hoffman EC. **Biotechniques** 1989 May;7(5):455

A simple and rapid method for the preparation of total plant DNA. Junghans H, et al. **Biotechniques** 1990 Feb;8(2):176

Rapid analysis and purification of polymerase chain reaction products by high-performance liquid chromatography. Katz ED, et al. **Biotechniques** 1990 May;8(5):546-55

TED, an improved thermal elution device for the simultaneous hydroxyapatite chromatography of solution DNA/DNA hybrids. Kirsch JA, et al. **Biotechniques** 1990 May;8(5):504-6

Protection analysis (or "footprinting") of specific protein-DNA complexes in crude nuclear extracts using methidiumpropyl-EDTA-iron (II). Landolfi NF, et al. **Biotechniques** 1989 May;7(5):500-4

Modification of a commercially available method of extracting plasmid DNA. Lee PS, et al. **Biotechniques** 1990 Apr;8(4):386

"Midi-prep" isolation of plasmid DNA in less than two hours for sequencing, subcloning and hybridizations. Liszewski MK, et al. **Biotechniques** 1989 Nov-Dec;7(10):1079-81

A new, reliable cartridge for the rapid purification of synthetic DNA. McBride LJ, et al. **Biotechniques** 1988 Apr; 6(4):362-7

Use of modified T7 DNA polymerase in low melting point agarose for DNA gap filling and molecular cloning. Majumdar D, et al. **Biotechniques** 1989 Feb;7(2):188-91

Base composition-independent hybridization in dried agarose gels: screening and recovery for cloning of genomic DNA fragments [published erratum appears in Biotechniques 1988 Nov-Dec;6(10):953] Mather MW. **Biotechniques** 1988 May;6(5):444-7

DNA extraction from nucleated red blood cells. Medrano JF, et al. **Biotechniques** 1990 Jan;8(1):43 (3 ref.)

A simple, efficient method for the separate isolation of RNA and DNA from the same cells. Nicolaides NC, et al. **Biotechniques** 1990 Feb;8(2):154-6

A rapid method for large-scale isolation of plasmid DNA by boiling in a plastic bag. Reddy SV, et al. **Biotechniques** 1989 Sep;7(8):820, 822

Gel electrophoresis assays for DNA-protein interactions. Revzin A. **Biotechniques** 1989 Apr;7(4):346-55 (42 ref.)

A rapid method of Southern blot analysis using polyacrylamide gel electrophoresis and vacuum blotting transfer techniques. Rosenberg J, et al. **Biotechniques** 1989 Jan;7(1):24, 26, 28

Inexpensive micro-electroelution apparatus for extracting DNA from acrylamide and agarose gels. Sandhu GS, et al. **Biotechniques** 1989 Sep;7(8):822, 824

Electrolyte gradient gels for DNA sequencing. Sheen JY, et al. **Biotechniques** 1988 Nov-Dec;6(10):942-4

Direct DNA sequencing of PCR amplified genomic DNA by the Maxam-Gilbert method. Tahara T, et al. **Biotechniques** 1990 Apr;8(4):366-8

Simple construction of rubber-based agarose block molds for pulsed-field electrophoresis. Van Devanter DR, et al. **Biotechniques** 1989 Feb;7(2):143-4

Improved genomic blot hybridization. Verma M. **Biotechniques** 1989 Oct;7(9):934

High molecular weight DNA isolation by guanidine hydrochloride or guanidinium isothiocyanate treatment. Verma M. **Biotechniques** 1988 Oct;6(9):848, 850, 853

A rapid method for determining the relationship between cDNA clones. Walker JA, et al. **Biotechniques** 1990 Apr; 8(4):394-6

Large-scale preparation of mononucleosomal DNA from calf thymus for biophysical studies. Wang L, et al. **Biotechniques** 1990 Jul;9(1):24, 26-7

Prep-A-Gene: a superior matrix for the purification of DNA and DNA fragments. Willis EH, et al. **Biotechniques** 1990 Jul;9(1):92-9

A novel method for rapid isolation of plasmid DNA. Zervos PH, et al. **Biotechniques** 1988 Mar;6(3):238-42

Mini-prep in ten minutes. Zhou C, et al. **Biotechniques** 1990

Feb;8(2):172–3
Human brain glycogen phosphorylase: characterization of fetal cDNA and genomic sequences. Gelinas RP, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2–3):177–85
Lack of I–compounds in DNA from a spectrum of Morris hepatomas. Randerath K, et al. **Carcinogenesis** 1990 Jun; 11(6):1041–4
High–resolution TLC mapping and characterization of 32P–postlabeled monophosphate 7,12–dimethylbenz[a]anthracene–DNA adducts. Yang PF, et al. **Carcinogenesis** 1990 Jan;11(1):159–64
Isolation of 8–methoxypsoralen accessible DNA domains from chromatin of intact cells. Mathis GA, et al. **Cell Biol Toxicol** 1990 Jan;6(1):35–45
Rapid purification of human DNA from whole blood for potential application in clinical chemistry laboratories. Adeli K, et al. **Clin Chem** 1990 Feb;36(2):261–4
Isolation and characterization of cDNA clones encoding aldose reductase. Petrash JM, et al. **Curr Eye Res** 1989 Oct;8(10):1021–7
Isolation of giant DNA fragments from flow–sorted human chromosomes. Minoshima S, et al. **Cytometry** 1990; 11(4):539–46
Isolation of cDNAs encoding four mouse FGF family members and characterization of their expression patterns during embryogenesis. Hébert JM, et al. **Dev Biol** 1990 Apr;138(2):454–63
Ultrasonic degradation of DNA. Elsner HI, et al. **DNA** 1989 Dec;8(10):697–701 (28 ref.)
Characterization of a cDNA encoding rat sterol carrier protein2. Billheimer JT, et al. **DNA Cell Biol** 1990 Apr; 9(3):159–65
A method for the preparation of high–molecular–weight DNA from marine and freshwater triclads (Platyhelminthes, Turbellaria). Hempstead PG, et al. **DNA Cell Biol** 1990 Jan–Feb;9(1):57–61
The use of charge–coupled devices in the quantitative evaluation of images, on photographic film or membranes, obtained following electrophoretic separation of DNA fragments. Boniszewski ZA, et al. **Electrophoresis** 1990 May;11(5):432–40
The electric field dependence of DNA mobilities in agarose gels: a reinvestigation. Holmes DL, et al. **Electrophoresis** 1990 Jan;11(1):5–15
Cloning and sequencing of a Porifera partial cDNA coding for a short–chain collagen. Exposito JY, et al. **Eur J Biochem** 1990 Jun 20;190(2):401–6
A transcribed gene, containing a variable number of tandem repeats, codes for a human epithelial tumor antigen. cDNA cloning, expression of the transfected gene and over–expression in breast cancer tissue. Hareuveni M, et al. **Eur J Biochem** 1990 May 20;189(3):475–86
Isolation of a cDNA encoding the rat liver S–adenosylmethionine synthetase. Horikawa S, et al. **Eur J Biochem** 1989 Oct 1;184(3):497–501
Molecular characterization of three rat liver serine–protease inhibitors affected by inflammation and hypophysectomy. Protein and mRNA analysis and cDNA cloning. Pages G, et al. **Eur J Biochem** 1990 Jun 20;190(2):385–91
Organization and complete nucleotide sequence of the core–histone–gene cluster of the annelid Platynereis dumeriliii. Sellos D, et al. **Eur J Biochem** 1990 May 31; 190(1):21–9
Human epithelial tumor antigen cDNA sequences. Differential splicing may generate multiple protein forms. Wreschner DH, et al. **Eur J Biochem** 1990 May 20; 189(3):463–73
Human embryonic myosin heavy chain cDNA. Interspecies sequence conservation of the myosin rod, chromosomal locus and isoform specific transcription of the gene. Eller M, et al. **FEBS Lett** 1989 Oct 9;256(1–2):21–8
Subtraction hybridization cDNA libraries from colon carcinoma and hepatic cancer. Schweinfest CW, et al. **Genet Anal Tech Appl** 1990 May;7(3):64–70
Isolation of a novel mildly repetitive DNA sequence that is predominantly located at the terminus of the short arm of chromosome 4 near the Huntington disease gene. Altherr MR, et al. **Genomics** 1989 Oct;5(3):581–8
CpG islands surround a DNA segment located between translocation breakpoints associated with genitourinary dysplasia and aniridia. Bickmore WA, et al. **Genomics** 1989 Nov;5(4):685–93
Microdissection of banded human chromosomes. Senger G, et al. **Hum Genet** 1990 May;84(6):507–11
Isolation of cDNA coding for the major mite allergen Der p II by IgE plaque immunoassay. Chua KY, et al. **Int Arch Allergy Appl Immunol** 1990;91(2):118–23
Cloning of cDNA coding for an allergen of Cocksfoot grass (Dactylis glomerata) pollen. Walsh DJ, et al. **Int Arch Allergy Appl Immunol** 1989;90(1):78–83
A simple method for isolation of DNA fragments associated with the nuclear lamina in vivo. Christova R, et al. **J Biochem Biophys Methods** 1990 Jan;20(2):107–11
HydroLink gel electrophoresis (HLGE). II. Applications of a new polymer matrix to dsDNA analysis. Smith CL, et al. **J Biochem Biophys Methods** 1989 Jul;19(1):51–64
HydroLink gel electrophoresis (HLGE). III. High DNA loading capacity and recovery of dsDNA [published erratum appears in J Biochem Biophys Methods 1990 Mar;20(3):271] Smith CL, et al. **J Biochem Biophys Methods** 1989 Jul;19(1):65–73
Fractionation of macromolecules in an alternating transverse electric field: simulation of the method. Stevens FJ. **J Biochem Biophys Methods** 1990 Apr–May;20(4):275–92
Phosphoenolpyruvate carboxylase prevalent in maize roots: isolation of a cDNA clone and its use for analyses of the gene and gene expression. Kawamura T, et al. **J Biochem (Tokyo)** 1990 Jan;107(1):165–8
Isolation, characterization, and cDNA cloning of a vampire bat salivary plasminogen activator. Gardell SJ, et al. **J Biol Chem** 1989 Oct 25;264(30):17947–52
Isolation and characterization of the Drosophila nuclear envelope otefin cDNA. Padan R, et al. **J Biol Chem** 1990 May 15;265(14):7808–13
Rat C1–tetrahydrofolate synthase. cDNA isolation, tissue–specific levels of the mRNA, and expression of the protein in yeast. Thigpen AE, et al. **J Biol Chem** 1990 May 15;265(14):7907–13
Isolation and sequence of the human farnesyl pyrophosphate synthetase cDNA. Coordinate regulation of the mRNAs for farnesyl pyrophosphate synthetase, 3–hydroxy–3–methylglutaryl coenzyme A reductase, and 3–hydroxy–3–methylglutaryl coenzyme A synthase by phorbol ester. Wilkin DJ, et al. **J Biol Chem** 1990 Mar 15;265(8):4607–14
Orientation of DNA molecules in agarose gels by pulsed electric fields. Stellwagen NC. **J Biomol Struct Dyn** 1985 Oct;3(2):299–314
High–performance affinity chromatography of DNA. Goss TA, et al. **J Chromatogr** 1990 Jun 1;508(2):279–87
Rapid and simple method for purification of nucleic acids. Boom R, et al. **J Clin Microbiol** 1990 Mar;28(3):495–503
An unusual retrovirus–like sequence identified in human DNA. Levy LS, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1613–8
Nucleotide sequence of channel catfish heavy chain cDNA and genomic blot analyses. Implications for the phylogeny of Ig heavy chains. Ghaffari SH, et al. **J Immunol** 1989 Oct 15;143(8):2730–9
Isolation and sequence analysis of Caenorhabditis briggsae repetitive elements related to the Caenorhabditis elegans transposon Tc1. Harris LJ, et al. **J Mol Evol** 1990 Apr; 30(4):359–69
Micro extraction of DNA from whole blood and amniocytes. Hirota T, et al. **Jinrui Idengaku Zasshi** 1989 Sep; 34(3):217–23
Non–invasive isolation of constitutional DNA for genetic analysis [letter] Tobal K, et al. **Lancet** 1989 Nov 25; 2(8674):1281–2
Regulation of gastric somatostatin gene expression. Wu SV, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):125–30
Characterisation of an extrachromosomal DNA element from Theileria annulata. Hall R, et al. **Mol Biochem Parasitol** 1990 Jan 15;38(2):253–60
Isolation of a female–specific, highly repeated Schistosoma mansoni DNA probe and its use in an assay of cercarial sex. Webster P, et al. **Mol Biochem Parasitol** 1989 Oct; 36(3):217–22
Regulation of the mouse alpha A–crystallin gene: isolation of a cDNA encoding a protein that binds to a cis sequence motif shared with the major histocompatibility complex class I gene and other genes. Nakamura T, et al. **Mol Cell Biol** 1990 Jul;10(7):3700–8
Telomere structure in Euplotes crassus: characterization of DNA–protein interactions and isolation of a telomere–binding protein. Price CM. **Mol Cell Biol** 1990 Jul;10(7):3421–31
Age–related methylation changes in DNA may reflect the proliferative potential of organs. Hoal–van Helden EG, et al. **Mutat Res** 1989 Sep–Nov;219(5–6):263–6
Isolation and characterization of a cDNA that encodes the core protein of the cytolytic granule proteoglycan in rat natural killer cells. Giorda R, et al. **Nat Immun Cell Growth Regul** 1990;9(2):91–102
DNA trapping electrophoresis. Ulanovsky L, et al. **Nature** 1990 Jan 11;343(6254):190–2
Use of a new strategy to isolate and characterize 436 Drosophila cDNA clones corresponding to RNAs detected in adult heads but not in early embryos. Palazzolo MJ, et al. **Neuron** 1989 Oct;3(4):527–39
Cloning of cDNAs encoding a rat neuropeptide immunologically related to salmon melanin–concentrating hormone. Fellmann D, et al. **Neurosci Lett** 1989 Nov 20; 106(1–2):23–8
Higher transfection efficiency of genomic DNA purified with a guanidinium thiocyanate–based procedure. Alberti S, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):351–3
The basis of high resolution separation of small DNAs by asymmetric–voltage field inversion electrophoresis and its application to DNA sequencing gels. Birren BW, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1481–7
A rapid and reliable one–step method for isolating DNA fragments from agarose gels. Errington J. **Nucleic Acids Res** 1990 Sep 11;18(17):5324
Ethanol precipitation of DNA with linear polyacrylamide as carrier. Gaillard C, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):378
A simple method for the preparation of plasmid and chromosomal E. coli DNA. Grimberg J, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8893
A rapid method of preparing megabase plant DNA. Guidet F, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4955
Extraction and amplification of DNA from archival haematoxylin and eosin sections and cervical cytology Papanicolaou smears. Jackson DP, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10134
Isolation and mapping of a polymorphic DNA sequence (CJ52.161) on chromosome 16 [D16S150] Julier C, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8402
A cDNA fragment of hepatitis C virus isolated from an implicated donor of post–transfusion non–A, non–B hepatitis in Japan. Kubo Y, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10367–72
Efficient DNA isolation within a single gel barrier tube. Moreno RF, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8393
Rapid isolation of miniprep DNA for double strand sequencing. Saunders SE, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4948
Extraction of cellular DNA from crude cell lysate with glass. Thompson JD, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):1074
A simple method for the preparation of chromosomal DNA from cell culture. Xu HW, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4943
Oxidative damage to DNA during aging: 8–hydroxy–2'–deoxyguanosine in rat organ DNA and urine. Fraga CG, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4533–7
Isolation and characterization of the human uracil DNA glycosylase gene. Vollberg TM, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8693–7
Isolation of the complementary DNA for human transcobalamin II. Platica O, et al. **Proc Soc Exp Biol Med** 1989 Oct;192(1):95–7
Isolation and characterization of cDNA clones for human, bovine and rabbit liver cytochrome b5 mRNA's. Cristiano RJ, et al. **Prog Clin Biol Res** 1989;319:123–30; discussion 131
Plasmid composition and virulence–associated factors of Yersinia pestis isolates from a plague outbreak at the Paraiba State, Brazil. Leal NC, et al. **Rev Inst Med Trop Sao Paulo** 1989 Sep–Oct;31(5):295–300
Isolation of human transcribed sequences from human–rodent somatic cell hybrids. Liu P, et al. **Science** 1989 Nov 10; 246(4931):813–5
Electrophoresis of flexible macromolecules: evidence for a new mode of transport in gels. Smisek DL, et al. **Science** 1990 Jun 8;248(4960):1221–3
Molecular cloning of human A1S9 locus: an X–linked gene essential for progression through S phase of the cell cycle. Zacksenhaus E, et al. **Somat Cell Mol Genet** 1989 Nov; 15(6):545–53
Isolation and characterization of human blood platelet mRNA and construction of a cDNA library in lambda gt11. Confirmation of the platelet derivation by identification of GPIb coding mRNA and cloning of a GPIb coding cDNA insert. Wicki AN, et al. **Thromb Haemost** 1989 Jun 30;61(3):448–53
Effects of 2,3,7,8–tetrachlorodibenzo–p–dioxin on I–compounds in hepatic DNA of Sprague–Dawley rats: sex–specific effects and structure–activity relationships. Randerath K, et al. **Toxicol Appl Pharmacol** 1990 Apr; 103(2):271–80
A simple method for subcloning DNA fragments from gel slices. Heery DM, et al. **Trends Genet** 1990 Jun;6(6):173
An efficient salt–chloroform extraction of DNA from blood and tissues. Müllenbach R, et al. **Trends Genet** 1989 Dec; 5(12):391
[A molecular biology technique for the brain—preparation of genomic DNA from the brain] Chen J. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):346–8, 382–3 (Eng. Abstr.) **(Chi)**
[Slalom chromatography—size–dependent, chromatographic separation of DNA which is not based on gel permeation mode] Hirabayashi J, et al. **Tanpakushitsu Kakusan Koso** 1989 Aug;34(10):1305–9 **(Jpn)**
[Isolation, identification and electrophoretic properties of DNA excreted by human lymphocytes] Ianeva IS, et al. **Biokhimiia** 1990 Apr;55(4):745–53 (Eng. Abstr.) **(Rus)**
[Characteristics of DNA isolated from a complex form of DNA–polymerase alpha from the rat liver] Timchenko NA, et al. **Mol Biol (Mosk)** 1989 Jul–Aug;23(4):1171–6 (Eng. Abstr.) **(Rus)**
[Isolation of high molecular weight eukaryotic DNA with the use of potassium acetate] Sokolov BP, et al. **Mol Gen Mikrobiol Virusol** 1989 Jun;(6):45–6 (Eng. Abstr.) **(Rus)**
[The yield and quality of DNA extracted from blood samples stored under various conditions] Poláková H, et al. **Bratisl Lek Listy** 1989 Nov;90(11):844–7 (Eng. Abstr.) **(Slo)**

METABOLISM

Stability of RNA chain elongation complexes formed with RNA polymerase and denatured DNA templates. Misumi H. **Acta Med Okayama** 1989 Dec;43(6):323–8
The role of DNA methylation in cancer. Jones PA, et al. **Adv Cancer Res** 1990;54:1–23 (118 ref.)
Intracellular pharmacokinetics of N4–behenoyl–1–beta–D–arabinofuranosylcytosine. Higashigawa M, et al. **Adv Exp Med Biol** 1989;253B:341–8
Methylation status of genes flanking the fragile site in males with the fragile–X syndrome: a test of the imprinting hypothesis. Khalifa MM, et al. **Am J Hum Genet** 1990 Apr;

46(4):744–53
DNA cytosine methylation in brain of patients with Alzheimer's disease. Schwob NG, et al. **Ann Neurol** 1990 Jul;28(1):91–4
In vivo covalent binding of 17-alpha-OH- and 17-beta-OH-trenbolone to rat liver DNA. Petit CR, et al. **Ann Rech Vet** 1989;20(3):319–26
DNA recognition by proteins with the helix-turn-helix motif. Harrison SC, et al. **Annu Rev Biochem** 1990;59:933–69 (130 ref.)
Anti-cancer activity of anthracycline antibiotics and DNA condensation. Cera C, et al. **Anticancer Drug Des** 1990 Aug; 5(3):265–71
Kinetics of the binding of mitoxantrone, ametantrone and analogues to DNA: relationship with binding mode and anti-tumour activity. Denny WA, et al. **Anticancer Drug Des** 1990 May;5(2):189–200
DNA-intercalating ligands as anti-cancer drugs: prospects for future design. Denny WA. **Anticancer Drug Des** 1989 Dec;4(4):241–63 (159 ref.)
Computerized selection of potential DNA binding compounds. Grootenhuis PD, et al. **Anticancer Drug Des** 1990 Aug;5(3):237–42
Can oligonucleoside methylphosphonates form a stable triplet with a double DNA helix? Hausheer FH, et al. **Anticancer Drug Des** 1990 May;5(2):159–67
Identification of local determinants of DNA interstrand crosslink formation by cyclophosphamide metabolites. Hausheer FH, et al. **Anticancer Drug Des** 1989 Dec; 4(4):281–94
The non-covalent interaction of pyrrolo[2, 1-c] [1, 4]benzodiazepine-5, 11-diones with DNA. Jones GB, et al. **Anticancer Drug Des** 1990 Aug;5(3):249–64
Molecular recognition between oligopeptides and nucleic acids: DNA sequence specificity and binding properties of thiazole-lexitropsins incorporating the concepts of base site acceptance and avoidance. Rao KE, et al. **Anticancer Drug Des** 1990 Feb;5(1):3–20
Structural studies on bio-active compounds. Part XIV. Molecular modelling of the interactions between pentamidine and DNA. Sansom CE, et al. **Anticancer Drug Des** 1990 Aug;5(3):243–8
The interaction of unfused polyaromatic heterocycles with DNA: intercalation, groove-binding and bleomycin amplification. Wilson WD, et al. **Anticancer Drug Des** 1990 Feb;5(1):31–42 (45 ref.)
DNase activity of micrococcal endonuclease insolubilized on corn cob. Sánchez-Montero JM, et al. **Appl Biochem Biotechnol** 1989 Nov;22(2):205–14
Nucleic acid association to human prostasomes. Olsson I, et al. **Arch Androl** 1990;24(1):1–10
Detection of diepoxybutane-induced DNA-DNA crosslinks by cesium trifluoracetate (CsTFA) density-gradient centrifugation [letter] Ristau C, et al. **Arch Toxicol** 1990; 64(4):343–4
Potential antitumour agents. Synthesis, DNA binding studies and biological activity of 9-aminoacridinyl derivatives of citrulline and arginine. Rad-niknam M, et al. **Arzneimittelforschung** 1990 Mar;40(3):287–9
Digestion of chromatin DNA with DNAse I in situ: effect of ethanol fixation. Bottone MG, et al. **Basic Appl Histochem** 1989;33(4):347–50
Isolation and characterization of a cDNA clone for a novel serine-rich neutrophil protein. Bellavite P, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):915–22
Lack of in vivo DNA binding of mercaptobenzothiazole to selected tissues of the rat. Brewster DW, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):342–8
Bovine pancreatic DNase I binds very tightly to DNA fragments and may be mistaken for putative endogenous nuclear proteins covalently bound to DNA. Brotherton TW, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):443–8
Molecular basis of HbE-beta-thalassemia and the origin of HbE in northeast Thailand: identification of one novel mutation using amplified DNA from buffy coat specimens. Fucharoen G, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):698–704
A protein target site in an early replicated human DNA sequence: a highly conserved binding motif. Giacca M, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):956–65
An unusually stable DNA binding protein can locate its specific binding site in the presence of high concentrations of urea. Jack RS. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):840–5
Hydrophobic moieties in cations, anions, and alcohols promote the B-to-Z transition in poly[d(G-C)] and poly[d(G-mC)] McDonnell NB, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):426–33
Expression of a catalytically active polypeptide of calmodulin-dependent protein kinase II alpha subunit in Escherichia coli. Ohsako S, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):705–12
Interactions of acetylated histones with DNA as revealed by UV laser induced histone-DNA crosslinking. Stefanovsky VYu, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):304–10
12-O-tetradecanoylphorbol 13-acetate potentiates the action of cAMP in inducing DNA cleavage in thymocytes. Suzuki K, et al. **Biochem Biophys Res Commun** 1990 Sep 14; 171(2):827–31
Thyroid hormone and DNA binding properties of a mutant c-erbA beta receptor associated with generalized thyroid hormone resistance. Usala SJ, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):575–80
Netropsin, distamycin and berenil interact differentially with a high-affinity binding site for the high mobility group protein HMG-I. Wegner M, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1110–7
Inhibition of DNA methylation in Friend erythroleukemia cells by actinomycin D. Kuykendall JR, et al. **Biochem Int** 1989 Oct;19(4):811–20
DNA methylation. The effect of minor bases on DNA-protein interactions. Adams RL. **Biochem J** 1990 Jan 15;265(2):309–20 (141 ref.)
Effects of variation in the structure of spermine on the association with DNA and the induction of DNA conformational changes. Basu HS, et al. **Biochem J** 1990 Jul 15;269(2):329–34
Methylation of chick UbI and UbII polyubiquitin genes and their differential expression during spermatogenesis. Rocamora N, et al. **Biochem J** 1990 May 1;267(3):821–9
Thermodynamics of the interaction of aristololactam-beta-D-glucoside with DNA. Ionic strength dependence of enthalpy and entropy. Chakraborty S, et al. **Biochem Pharmacol** 1990 Apr 1;39(7):1181–6
The strong binding of luzopeptin to DNA. Fox KR, et al. **Biochem Pharmacol** 1990 Mar 1;39(5):941–8
Two-dimensional NMR study of a protein-DNA complex. lac repressor headpiece-operator interaction. Kaptein R, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):89–96
Interaction of the peroxidase-derived metabolite of mitoxantrone with nucleic acids. Evidence for covalent binding of 14C-labeled drug. Reszka K, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4253–60
Caffeine, aminoimidazolecarboxamide and dicoumarol, inhibitors of NAD(P)H dehydrogenase (quinone) (DT diaphorase), prevent both the cytotoxicity and DNA interstrand crosslinking produced by 5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB 1954) in Walker cells. Roberts JJ, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4137–43
Effect of ethanol on hepatotoxicity and hepatic DNA-binding of aflatoxin B1 in rats. Wang CJ, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):715–21
Molecular recognition by secondary metabolites. Williams DH, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):27–34
Camptothecin-stabilized topoisomerase I-DNA adducts cause premature termination of transcription. Bendixen C, et al. **Biochemistry** 1990 Jun 12;29(23):5613–9
Characterization of a unique tomaymycin-d(CICGAATTCICG)2 adduct containing two drug molecules per duplex by NMR, fluorescence, and molecular modeling studies. Boyd FL, et al. **Biochemistry** 1990 Mar 6;29(9):2387–403
Spin-labeled oxazolopyridocarbazole as a probe for studying nonintercalating DNA groove binding ligands. Carrier A, et al. **Biochemistry** 1990 Jun 26;29(25):6002–9
Binding of benzo[a]pyrene to DNA by cytochrome P-450 catalyzed one-electron oxidation in rat liver microsomes and nuclei. Cavalieri EL, et al. **Biochemistry** 1990 May 22;29(20):4820–7
Glucocorticoid receptor binding to calf thymus DNA. 2. Role of a DNA-binding activity factor in receptor heterogeneity and a multistep mechanism of receptor activation. Cavanaugh AH, et al. **Biochemistry** 1990 Jan 30;29(4):996–1002
Glucocorticoid receptor binding to calf thymus DNA. 1. Identification and characterization of a macromolecular factor involved in receptor-steroid complex binding to DNA. Cavanaugh AH, et al. **Biochemistry** 1990 Jan 30; 29(4):989–96
Detection of drug binding to DNA by hydroxyl radical footprinting. Relationship of distamycin binding sites to DNA structure and positioned nucleosomes on 5S RNA genes of Xenopus. Churchill ME, et al. **Biochemistry** 1990 Jun 26;29(25):6043–50
Induction of stable transcriptional blockage sites by adriamycin: GpC specificity of apparent adriamycin-DNA adducts and dependence on iron(III) ions. Cullinane C, et al. **Biochemistry** 1990 Jun 12;29(23):5638–46
Characterization of a DNA damage-recognition protein from mammalian cells that binds specifically to intrastrand d(GpG) and d(ApG) DNA adducts of the anticancer drug cisplatin. Donahue BA, et al. **Biochemistry** 1990 Jun 19; 29(24):5872–80
Biochemical and pharmacological properties of p170 and p180 forms of topoisomerase II. Drake FH, et al. **Biochemistry** 1989 Oct 3;28(20):8154–60
Interaction of nucleolar phosphoprotein B23 with nucleic acids. Dumbar TS, et al. **Biochemistry** 1989 Nov 28; 28(24):9495–501
Drug binding by branched DNA molecules: analysis by chemical footprinting of intercalation into an immobile junction. Guo Q, et al. **Biochemistry** 1990 Jan 16; 29(2):570–8
The missing nucleoside experiment: a new technique to study recognition of DNA by protein. Hayes JJ, et al. **Biochemistry** 1989 Nov 28;28(24):9521–7
Purification and characterization of a protein from HeLa cells that binds with high affinity to the estrogen response element, GGTCAGCGTGACC. Hughes MJ, et al. **Biochemistry** 1989 Nov 14;28(23):9137–42
The LexA repressor and its isolated amino-terminal domain interact cooperatively with poly[d(A-T)], a contiguous pseudo-operator, but not with random DNA: a circular dichroism study. Hurstel S, et al. **Biochemistry** 1990 Feb 20;29(7):1961–70
A photochemical method to map ethidium bromide binding sites on DNA: application to a bent DNA fragment. Krishnamurthy G, et al. **Biochemistry** 1990 Jan 30; 29(4):981–8
Antitumor drug nogalamycin binds DNA in both grooves simultaneously: molecular structure of nogalamycin-DNA complex. Liaw YC, et al. **Biochemistry** 1989 Dec 26; 28(26):9913–8
Drug binding by branched DNA: selective interaction of tetrapyridyl porphyrins with an immobile junction. Lu M, et al. **Biochemistry** 1990 Feb 13;29(6):1614–24
Chemical reactivity of potassium permanganate and diethyl pyrocarbonate with B DNA: specific reactivity with short A-tracts. McCarthy JG, et al. **Biochemistry** 1990 Jun 26; 29(25):6071–81
DNase I susceptibility of bent DNA and its alteration by ditercalinium and distamycin. Mendoza R, et al. **Biochemistry** 1990 May 29;29(21):5035–43
NMR and computational characterization of the N-(deoxyguanosin-8-yl)aminofluorene adduct [(AF)G] opposite adenosine in DNA: (AF)G[syn].A[anti] pair formation and its pH dependence. Norman D, et al. **Biochemistry** 1989 Sep 5;28(18):7462–76
The DNA binding domain of GAL4 forms a binuclear metal ion complex. Pan T, et al. **Biochemistry** 1990 Mar 27; 29(12):2023–9
Monte-Carlo simulation of multisite echinomycin-DNA interactions detected by in vitro transcription analysis. Phillips DR, et al. **Biochemistry** 1990 May 22;29(20):4812–9
Sequence preferences of covalent DNA binding by anti-(+)- and anti-(-)-benzo[a]pyrene diol epoxides. Rill RL, et al. **Biochemistry** 1990 Jun 26;29(25):6050–8
Substrate properties of 25-nt parallel-stranded linear DNA duplexes. Rippe K, et al. **Biochemistry** 1989 Nov 28; 28(24):9542–9
Stabilization of the topoisomerase II-DNA cleavage complex by antineoplastic drugs: inhibition of enzyme-mediated DNA religation by 4'-(9-acridinylamino)methanesulfon-m-anisidide. Robinson MJ, et al. **Biochemistry** 1990 Mar 13; 29(10):2511–5
An NMR study of the covalent and noncovalent interactions of CC-1065 and DNA. Scahill TA, et al. **Biochemistry** 1990 Mar 20;29(11):2852–60
Interaction of Ada protein with DNA examined by fluorescence anisotropy of the protein. Takahashi M, et al. **Biochemistry** 1990 Apr 10;29(14):3431–6
Affinity of interactions between human glucocorticoid receptors and DNA: at physiologic ionic strength, stable binding occurs only with DNAs containing partially symmetric glucocorticoid response elements. Tully DB, et al. **Biochemistry** 1990 Jul 17;29(28):6662–70
On the chemical nature of DNA and RNA modification by a hemin model system. Van Atta RB, et al. **Biochemistry** 1990 May 22;29(20):4783–9
O6-methylguanine in place of guanine causes asymmetric single-strand cleavage of DNA by some restriction enzymes. Voigt JM, et al. **Biochemistry** 1990 Feb 13; 29(6):1632–7
Highly efficient DNA delivery mediated by pH-sensitive immunoliposomes. Wang CY, et al. **Biochemistry** 1989 Nov 28;28(24):9508–14
Fluorescence lifetime distributions of DNA-4',6-diamidino-2-phenylindole complex. Barcellona ML, et al. **Biochim Biophys Acta** 1989 Dec 8;993(2-3):174–8
Variation of DNA sequence specificity of DNA-oligopeptide binding ligands related to netropsin: imidazole-containing lexitropsins. Burckhardt G, et al. **Biochim Biophys Acta** 1989 Sep 21;1009(1):11–8
DNA methylation and development. Cedar H, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):1–8 (72 ref.)
Effects of sodium butyrate and 5-azacytidine on DNA methylation in human tumor cell lines: variable response to drug treatment and withdrawal. Cosgrove DE, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):80–6
Effects of dietary treatment with clofibrate, nafenopin or WY-14.643 on mitochondria and DNA in mouse liver. Lundgren B, et al. **Biochim Biophys Acta** 1990 Aug 17; 1035(2):132–8
The interaction of substituted and rigidly linked diquinolines with DNA. McFadyen WD, et al. **Biochim Biophys Acta** 1990 Jan 30;1048(1):50–8
Employment of hydrolytic enzymes in the study of the level of DNA methylation. Palmgren G, et al. **Biochim Biophys Acta** 1990 Jul 30;1049(3):293–7
Purification and properties of the DNA-binding protein HPB12 from Bacillus subtilis nucleoid. Salti V, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):161–7
Sequence-specific spin labeling of DNA. Weygand-Durasevic I, et al. **Biochim Biophys Acta** 1990 Jan 30;1048(1):38–42
Short-term effect of glutamine on the incorporation of glucose-carbon into nucleic acids in Ehrlich ascites tumour cells. Medina MA, et al. **Biochimie** 1990 Apr;72(4):291–3
Effect of partial hepatectomy on the formation and elimination of 3-methyldibenzo(c,g)carbazole and 5,9-dimethyldibenzo(c,g)carbazole-DNA adducts in mouse

liver. Szafarz D, et al. **Biol Cell** 1990;68(2):91–4

Ernst Klenk lecture, November 7, 1988. Patterns of DNA methylation in the mammalian genome. Doerfler W. **Biol Chem Hoppe Seyler** 1990 Jun;371(6):455–63 (64 ref.)

Complementarity of infrared linear dichroism and X-ray diffraction analysis as demonstrated by the study of a DNA–drug complex. Pohle W, et al. **Biomed Biochim Acta** 1989;48(7):377–86

Biophysical chemistry of the daunomycin–DNA interaction. Chaires JB. **Biophys Chem** 1990 Apr;35(2–3):191–202 (57 ref.)

Free energy calculation on base specificity of drug—DNA interactions: application to daunomycin and acridine intercalation into DNA. Cieplak P, et al. **Biopolymers** 1990 Mar–Apr;29(4–5):717–27

Fourier transform infrared spectroscopy for the characterization of a model peptide–DNA interaction. Dev SB, et al. **Biopolymers** 1990 Jan;29(1):289–99

Temperature dependence of enthalpy changes for ethidium and propidium binding to DNA: effect of alkylamine chains. Hopkins HP Jr, et al. **Biopolymers** 1990 Feb 5; 29(2):449–59

A unique binding cavity for divalent cations in the DNA–metal–chromomycin A3 complex. Itzhaki L, et al. **Biopolymers** 1990 Feb 15;29(3):481–9

The binding of substituted cis-Pt(II)–diammines to duplex DNA. McCarthy SL, et al. **Biopolymers** 1990 Mar–Apr; 29(4–5):785–90

Theoretical studies of cis-Pt(II)–diammine binding to duplex DNA. McCarthy SL, et al. **Biopolymers** 1990 Mar–Apr; 29(4–5):823–36

Binding of meso-tetrakis(N-methylpyridiniumyl)porphyrin isomers to DNA: quantitative comparison of the influence of charge distribution and copper(II) derivatization. Strickland JA, et al. **Biopolymers** 1990 Jul–Aug 5; 29(8–9):1307–23

Analysis of the charge distribution in the C-terminal region of histone H1 as related to its interaction with DNA. Subirana JA. **Biopolymers** 1990 Aug 15–Sep; 29(10–11):1351–7

Some features of DNA fragments associated in vivo with the nuclear lamina. Christova R, et al. **Biosci Rep** 1989 Oct;9(5):587–92

Detection of DNA–protein binding in western blots by phosphorus-labeled and biotinylated DNA probes. Herlt M, et al. **Biotechniques** 1988 Apr;6(4):324–31

A streamlined, low ionic strength DNase I footprinting reaction. Hudson JM, et al. **Biotechniques** 1989 Sep; 7(8):812–5

Native genomic blotting: a novel approach to mapping DNase I hypersensitive sites and protein–DNA interactions at high resolution. Pauli U, et al. **Biotechniques** 1988 Feb; 6(2):142–7

The formation and removal of cisplatin (CDDP) induced DNA adducts in a CDDP sensitive and resistant human small cell lung carcinoma (HSCLC) cell line. Hospers GA, et al. **Br J Cancer** 1990 Jan;61(1):79–82

Intervening sequence-specific in situ hybridization: detection of the pro-opiomelanocortin gene primary transcript in individual neurons. Fremeau RT Jr, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2–3):197–201

Complementary DNAs for choline acetyltransferase from spinal cords of rat and mouse: nucleotide sequences, expression in mammalian cells, and in situ hybridization. Ishii K, et al. **Brain Res Mol Brain Res** 1990 Feb;7(2):151–9

Infradian modulation of liver nucleic acid and lipid content of adult female Lewis/S rats. Marques N, et al. **Braz J Med Biol Res** 1989;22(12):1479–83

In vitro reactions of glycidol with pyrimidine bases in calf thymus DNA. Segal A, et al. **Cancer Biochem Biophys** 1990 Jan;11(1):59–67

Behind the Fos and Jun leucine zipper. Kouzarides T, et al. **Cancer Cells** 1989 Nov;1(3):71–6 (57 ref.)

32P-postlabeling analysis of binding of the cyclophosphamide metabolite, acrolein, to DNA. Maccubbin AE, et al. **Cancer Commun** 1990;2(6):207–11

Modulation by some natural carotenoids of DNA adduct formation by aflatoxin B1 in vitro. Goswami UC, et al. **Cancer Lett** 1989 Sep 15;47(1–2):127–32

Inhibition of binding of 2-acetylaminofluorene to DNA by butylated hydroxytoluene and butylated hydroxyanisole in vitro. Richer N, et al. **Cancer Lett** 1989 Oct;47(3):211–6

Effect of glucose administration on hamster liver S9-mediated mutagenesis, metabolism and DNA-binding of benzo[a]pyrene and aflatoxin B1. Rubano DC, et al. **Cancer Lett** 1990 Jul 16;52(2):123–31

DNA–adduct formation in the forestomach of rats treated with 3-tert-butyl-4-hydroxyanisole and its metabolites as assessed by an enzymatic 32P-postlabeling method. Saito K, et al. **Cancer Lett** 1989 Dec;48(3):189–95

32P-postlabelling analysis of DNA adducts of benzo[a]pyrene formed in complex metabolic activation systems in vitro. Schoket B, et al. **Cancer Lett** 1989 Nov 15;48(1):67–75

Formation and persistence of DNA adducts in the liver of brown bullheads exposed to benzo[a]pyrene. Sikka HC, et al. **Cancer Lett** 1990 Jan;49(1):81–7

Effect of dietary butylated hydroxytoluene on the in vivo distribution, metabolism and DNA–binding of 7,12-dimethylbenz[a]anthracene. Singletary KW. **Cancer Lett** 1990 Mar;49(3):187–93

Relationship between hepatic peroxisome proliferation and 8-hydroxydeoxyguanosine formation in liver DNA of rats following long-term exposure to three peroxisome proliferators; di(2-ethylhexyl) phthalate, aluminium clofibrate and simfibrate. Takagi A, et al. **Cancer Lett** 1990 Aug;53(1):33–8

Platinum complexes of triaminotriphenylmethanes: interaction with DNA and radiosensitization. Teicher BA, et al. **Cancer Lett** 1989 Oct;47(3):217–28

Inhibition of liver microsome-mediated mutagenesis, metabolism and DNA-binding of benzo[a]pyrene and benzo[a]pyrene 7,8-dihydrodiol in the rat following glucose administration. Vance RE, et al. **Cancer Lett** 1990 Apr 20;50(2):149–56

Effect of tannic acid on rat liver S9 mediated mutagenesis, metabolism and DNA binding of benzo[a]pyrene. Vance RE, et al. **Cancer Lett** 1989 Sep 15;47(1–2):37–44

Distribution of covalent DNA adducts in mouse epidermal subpopulations after topical application of benzo(a)pyrene and 7,12-dimethylbenz(a)anthracene. Baer-Dubowska W, et al. **Cancer Res** 1990 May 15;50(10):3048–54

Comparative formation and removal of aflatoxin B1-DNA adducts in cultured mammalian tracheal epithelium. Ball RW, et al. **Cancer Res** 1990 Aug 15;50(16):4918–22

Selectivity of rat and human glutathione S-transferases in activation of ethylene dibromide by glutathione conjugation and DNA binding and induction of unscheduled DNA synthesis in human hepatocytes. Cmarik JL, et al. **Cancer Res** 1990 May 1;50(9):2747–52

Reduced DNA topoisomerase II activity and drug-induced DNA cleavage activity in an adriamycin-resistant human small cell lung carcinoma cell line. de Jong S, et al. **Cancer Res** 1990 Jan 15;50(2):304–9

Estrogen receptor gene methylation in human breast tumors. Falette NS, et al. **Cancer Res** 1990 Jul 1;50(13):3974–8

DNA adduct formation in mouse tissues in relation to serum levels of benzo(a)pyrene–diol–epoxide after injection of benzo(a)pyrene or the diol–epoxide. Ginsberg GL, et al. **Cancer Res** 1990 Feb 15;50(4):1189–94

Effect of alpha-difluoromethylornithine on 1,3-bis(2-chloroethyl)-1-nitrosourea and cis-diamminedichloroplatinum(II) cytotoxicity, DNA interstrand cross-linking, and growth in human brain tumor cell lines in vitro. Hunter KJ, et al. **Cancer Res** 1990 May 1;50(9):2769–72

Induction of covalent DNA modifications and micronucleated erythrocytes by 4-nitroquinoline 1-oxide in adult and fetal mice. Lu LJ, et al. **Cancer Res** 1990 Oct 1;50(19):6192–8

Age-, tissue-, and Ah genotype-dependent differences in the binding of 3-methylcholanthrene and its metabolite(s) to mouse DNA. Lu LJ, et al. **Cancer Res** 1990 Jul 15; 50(14):4239–47

Inhibition by 6-mercaptopurine of the binding of a benzo(a)pyrene diol-epoxide to DNA in Chinese hamster ovary cells. MacLeod MC, et al. **Cancer Res** 1990 Jul 15; 50(14):4355–9

Oxidation and DNA binding of (+)-7,8-dihydroxy-7,8-dihydrobenzo(a)pyrene in mouse epidermis in vivo and effects of coadministration of catechol. Melikian AA, et al. **Cancer Res** 1990 Mar 15; 50(6):1795–9

Effects of indole-3-carbinol on lung tumorigenesis and DNA methylation induced by 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) and on the metabolism and disposition of NNK in A/J mice. Morse MA, et al. **Cancer Res** 1990 May 1; 50(9):2613–7

Dose-response study of DNA and hemoglobin adduct formation by 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in F344 rats. Murphy SE, et al. **Cancer Res** 1990 Sep 1; 50(17):5446–52

Localization and modulation of the DNA-binding activity of the human c-ets-1 protooncogene. Reddy ES, et al. **Cancer Res** 1990 Aug 15;50(16):5013–6

Formation and persistence of novel benzo(a)pyrene adducts in rat lung, liver, and peripheral blood lymphocyte DNA. Ross J, et al. **Cancer Res** 1990 Aug 15;50(16):5088–94

Accumulation of O6-methylguanine in human blood leukocyte DNA during exposure to procarbazine and its relationships with dose and repair. Souliotis VL, et al. **Cancer Res** 1990 May 1;50(9):2759–64

Induction of mammalian DNA topoisomerase II dependent DNA cleavage by antitumor antibiotic streptonigrin. Yamashita Y, et al. **Cancer Res** 1990 Sep 15;50(18):5841–4

Vinyl chloride-induced DNA adducts. I: Quantitative determination of N2,3-ethenoguanine based on electrophore labeling. Fedtke N, et al. **Carcinogenesis** 1990 Aug;11(8):1279–85

Vinyl chloride-induced DNA adducts. II: Formation and persistence of 7-(2'-oxoethyl)guanine and N2,3-ethenoguanine in rat tissue DNA. Fedtke N, et al. **Carcinogenesis** 1990 Aug;11(8):1287–92

DNA methyl-adduct dosimetry and O6-alkylguanine-DNA alkyl transferase activity determinations in rat mammary carcinogenesis by procarbazine and N-methylnitrosourea. Fong LY, et al. **Carcinogenesis** 1990 Mar;11(3):411–7

Clustered repair of excisable 4-nitroquinoline-1-oxide adducts in a larger fraction of genomic DNA of xeroderma pigmentosum complementation group C cells. Fujiwara Y. **Carcinogenesis** 1989 Oct;10(10):1777–85

Dose-related differences in DNA adduct levels in rodent tissues following skin application of complex mixtures from air pollution sources. Gallagher JE, et al. **Carcinogenesis** 1990 Jan;11(1):63–8

Formation of N2,3-ethanoguanine in DNA after in vitro treatment with the therapeutic agent, N-(2-chloroethyl)-N'-cyclohexyl-N-nitrosourea. Habraken Y, et al. **Carcinogenesis** 1990 Feb;11(2):223–8

Tissue distribution of DNA adducts in CDF1 mice fed 2-amino-3-methylimidazo[4,5-f]quinoline (IQ) and 2-amino-3,4-dimethylimidazo[4,5-f]quinoline (MeIQ). Hall M, et al. **Carcinogenesis** 1990 Jun;11(6):1005–11

DNA adducts in human environmentally exposed to aromatic compounds in an industrial area of Poland. Hemminki K, et al. **Carcinogenesis** 1990 Jul;11(7):1229–31

Glutathione conjugation protects some, but not all, cell lines against DNA binding of benzo[alpha]pyrene metabolites. Hesse S, et al. **Carcinogenesis** 1990 Mar;11(3):485–7

Covalent binding of dibenzpyrenes and benzo[a]pyrene to DNA: evidence for synergistic and inhibitory interactions when applied in combination to mouse skin. Hughes NC, et al. **Carcinogenesis** 1990 Sep;11(9):1611–9

Multiple DNA adducts in lymphocytes of smokers and nonsmokers determined by 32P-postlabeling analysis. Jahnke GD, et al. **Carcinogenesis** 1990 Feb;11(2):205–11

Formation of the DNA adduct S-[2-(N7-guanyl)ethyl]glutathione from ethylene dibromide: effects of modulation of glutathione and glutathione S-transferase levels and lack of a role for sulfation. Kim DH, et al. **Carcinogenesis** 1990 Mar; 11(3):419–24

Studies in gastric carcinogenesis. IV. O6-methylguanine and its repair in normal and atrophic biopsy specimens of human gastric mucosa. Correlation of O6-alkylguanine-DNA alkyltransferase activities in gastric mucosa and circulating lymphocytes. Kyrtopoulos SA, et al. **Carcinogenesis** 1990 Mar;11(3):431–6

2-aminofluorene–hepatic DNA adducts in congenic mouse lines differing in Ah responsiveness. Levy GN, et al. **Carcinogenesis** 1990 Jul;11(7):1233–5

Strain differences of I-compounds in relation to organ sites of spontaneous tumorigenesis and non-neoplastic renal disease in mice. Li DH, et al. **Carcinogenesis** 1990 Feb; 11(2):251–5

Binding of 7H-dibenzo[c,g]carbazole to polynucleotides and DNA in vitro. Lindquist BE, et al. **Carcinogenesis** 1989 Dec;10(12):2187–95

Modulation of benzo[a]pyrene-induced covalent DNA modifications in adult and fetal mouse tissues by gestation stage. Lu LJ, et al. **Carcinogenesis** 1990 Aug;11(8):1367–72

Non-mutagenic carcinogens are primarily hydrophobic. McCoy GD, et al. **Carcinogenesis** 1990 Jul;11(7):1111–7

Uncoupling of DNA excision repair and nucleosomal unfolding in poly(ADP-ribose)-depleted mammalian cells. Mathis G, et al. **Carcinogenesis** 1990 Jul;11(7):1237–9

Catechol-induced alterations in metabolic activation and binding of enantiomeric and racemic 7,8-dihydroxy-7,8-dihydrobenzo[a]pyrenes to DNA in mouse skin. Melikian AA, et al. **Carcinogenesis** 1989 Oct; 10(10):1863–70

Formation and persistence of DNA adducts in rats following intraperitoneal administration of 1,8-dinitropyrene. Norman CA, et al. **Carcinogenesis** 1990 Jun;11(6):1037–40

32P-postlabelling analysis of DNA adducted with urinary mutagens from smokers of black tobacco. Peluso M, et al. **Carcinogenesis** 1990 Aug;11(8):1307–11

32P-post-labeling analysis of DNA adducts in mouse embryo fibroblasts treated with dibenzo[a,e]fluoranthene and its major metabolites. Périn-Roussel O, et al. **Carcinogenesis** 1990 Feb;11(2):301–6

Investigations of metabolic precursors to hemoglobin and DNA adducts of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone. Peterson LA, et al. **Carcinogenesis** 1990 Aug;11(8):1329–33

32P-postlabelling analysis of the DNA adducts formed by aristolochic acid I and II. Pfau W, et al. **Carcinogenesis** 1990 Sep;11(9):1627–33

Aristolochic acid binds covalently to the exocyclic amino group of purine nucleotides in DNA. Pfau W, et al. **Carcinogenesis** 1990 Feb;11(2):313–9

DNA adduct formation and removal in hepatic chromatin fractions from rats chronically fed 2-acetylaminofluorene. Poirier MC, et al. **Carcinogenesis** 1990 Aug;11(8):1343–7

Inhibition of aflatoxin B1 binding to hepatic DNA by dehydroepiandrosterone in vivo. Prasanna HR, et al. **Carcinogenesis** 1989 Dec;10(12):2197–200

DNA adduct formation and unscheduled DNA synthesis in rat esophagus in vivo after treatment with N-methyl-N-nitrosourea. Qin XS, et al. **Carcinogenesis** 1990 Feb;11(2):235–8

DNA adduction by phenol, hydroquinone, or benzoquinone in vitro but not in vivo: nuclease P1-enhanced 32P-postlabeling of adducts as labeled nucleoside bisphosphates, dinucleotides and nucleoside monophosphates. Reddy MV, et al. **Carcinogenesis** 1990 Aug;11(8):1349–57

Formation of polycyclic aromatic hydrocarbon-DNA adducts in peripheral white blood cells during consumption of charcoal-broiled beef. Rothman N, et al. **Carcinogenesis** 1990 Jul;11(7):1241–3

Aflatoxin-DNA adduct formation in chronically dosed rats fed a choline-deficient diet. Schrager TF, et al. **Carcinogenesis** 1990 Jan;11(1):177–80

Reaction products in hemoglobin and DNA after in vitro treatment with ethylene oxide and N-(2-hydroxyethyl)-N-nitrosourea. Segerbäck D. **Carcinogenesis** 1990 Feb;11(2):307-12

Properties of aflatoxin-DNA adducts formed by photoactivation and characterization of the major photoadduct as aflatoxin-N7-guanine. Shaulsky G, et al. **Carcinogenesis** 1990 Apr;11(4):519-27

Capability of human blood cells to form the DNA adduct, C8-(N2-aminofluorenyl)-deoxyguanosine-3'-5'-diphosphate from 2-aminofluorene. Shen JH, et al. **Carcinogenesis** 1990 Aug;11(8):1441-4

Involvement of singlet oxygen in photoactivation of aflatoxins B1 and B2 to DNA-binding forms in vitro. Stark AA, et al. **Carcinogenesis** 1990 Apr;11(4):529-34

Metabolic activation of 9-hydroxymethyl-10-methylanthracene and 1-hydroxymethylpyrene to electrophilic, mutagenic and tumorigenic sulfuric acid esters by rat hepatic sulfotransferase activity. Surh YJ, et al. **Carcinogenesis** 1990 Sep;11(9):1451-60

Role of metabolism on the DNA binding of MeIQx in mice and bacteria. Turteltaub KW, et al. **Carcinogenesis** 1990 Jan;11(1):43-9

Formation of 8-hydroxydeoxyguanosine (8-OH-dG) in rat kidney DNA after intraperitoneal administration of ferric nitrilotriacetate (Fe-NTA). Umemura T, et al. **Carcinogenesis** 1990 Feb;11(2):345-7

Inhibition of the binding of 7,12-dimethylbenz[a]anthracene and benzo[a]pyrene to DNA in mouse skin epidermis by 1-ethynylpyrene. Viaje A, et al. **Carcinogenesis** 1990 Jul; 11(7):1139-43

Molecular dosimetry of DNA adducts and sister chromatid exchanges in human lymphocytes treated with benzo[a]pyrene. Wiencke JK, et al. **Carcinogenesis** 1990 Sep;11(9):1497-502

Bioactivation of 2-nitrofluorene to reactive intermediates that bind covalently to DNA, RNA and protein in vitro and in vivo in the rat. Wierckx FC, et al. **Carcinogenesis** 1990 Jan;11(1):27-32

Base and sequence specificities of aflatoxin B1 binding to single- and double-stranded DNAs. Yu FL, et al. **Carcinogenesis** 1990 Mar;11(3):475-8

The POU-specific domain of Pit-1 is essential for sequence-specific, high affinity DNA binding and DNA-dependent Pit-1-Pit-1 interactions. Ingraham HA, et al. **Cell** 1990 Jun 15;61(6):1021-33

Purified human I kappa B can rapidly dissociate the complex of the NF-kappa B transcription factor with its cognate DNA. Zabel U, et al. **Cell** 1990 Apr 20;61(2):255-65

In vitro microsome- and cytosol-mediated binding of 1,2-dichloroethane and 1,2-dibromoethane with DNA. Colacci A, et al. **Cell Biol Toxicol** 1985 Jan;1(2):45-55

Ellagic acid toxicity and interaction with benzo[a]pyrene and benzo[a]pyrene 7,8-dihydrodiol in human bronchial epithelial cells. Teel RW, et al. **Cell Biol Toxicol** 1986 Mar; 2(1):53-62

DNA-synthesizing cells in oral epithelium have a range of cell cycle durations: evidence from double-labelling studies using tritiated thymidine and bromodeoxyuridine. Hume WJ. **Cell Tissue Kinet** 1989 Sep;22(5):377-82

A demonstration of the intrinsic importance of stabilizing hydrophobic binding and non-covalent van der Waals contacts dominant in the non-covalent CC-1065/B-DNA binding. Boger DL, et al. **Chem Biol Interact** 1990; 73(1):29-52 (47 ref.)

Kinetic studies of the hydrolysis of platinum-DNA complexes by nuclease S1. Butour JL, et al. **Chem Biol Interact** 1990;73(2-3):195-205

Sequence specificity in the reaction of benzopyrene diol epoxide with DNA. Osborne MR. **Chem Biol Interact** 1990; 75(2):131-40

Footprinting analysis of sequence-specific DNA-drug interactions. Portugal J. **Chem Biol Interact** 1989; 71(4):311-24 (53 ref.)

Effects of fluorine substitution on the DNA binding and tumorigenicity of benzo[b]fluoranthene in mouse epidermis. Weyand EH, et al. **Chem Biol Interact** 1989;71(2-3):279-90

The tentative identification of DNA-adducts generated by trans-4-dimethylaminostilbene and trans-4-acetylaminostilbene in rats. Wildschütte M, et al. **Chem Biol Interact** 1990;76(1):47-62

Analysis of methylation and distribution of CpG sequences on human active and inactive X chromosomes by in situ nick translation. Prantera G, et al. **Chromosoma** 1990 Apr; 99(1):18-23

The effect of intrauterine devices (stainless steel ring, copper-T220 and levonorgestrel) on the DNA content in isolated human endometrial cells. Zhu PD, et al. **Contraception** 1989 Nov;40(5):591-604

Active chromatin. Patient RK, et al. **Curr Opin Cell Biol** 1989 Jun;1(3):454-9 (32 ref.)

Recognition of DNA by type II restriction enzymes. Bennett SP, et al. **Curr Top Cell Regul** 1989;30:57-104 (123 ref.)

Eukaryotic DNA methylation and gene expression. Weissbach A, et al. **Curr Top Cell Regul** 1989;30:1-21 (60 ref.)

SV40 T antigen catalyzed duplex DNA unwinding. Scheffner M, et al. **Curr Top Microbiol Immunol** 1989;144:37-45

Thermal denaturation of DNA for immunochemical staining of incorporated bromodeoxyuridine (BrdUrd): critical factors that affect the amount of fluorescence and the shape of BrdUrd/DNA histogram. Hoy CA, et al. **Cytometry** 1989 Nov;10(6):718-25

Hypomethylation of DNA in the regulation of gene expression. Chandler LA, et al. **Dev Biol (N Y 1985)** 1988; 5:335-49 (76 ref.)

5-azacytidine-induced tumorous transformation and DNA hypomethylation in Nicotiana tissue cultures. Durante M, et al. **Dev Genet** 1989;10(4):298-303

5-Azacytidine affects the programming of expression of the somatic nucleus of Paramecium. Kwok FW, et al. **Development** 1989 Mar;105(3):559-68

The interaction of proteins encoded by Drosophila homeotic and segmentation genes with specific DNA sequences. Laughon A, et al. **Development** 1988;104 Suppl:75-83

Regulated expression of muscle-specific genes introduced into mouse embryonal stem cells: inverse correlation with DNA methylation. Shinar D, et al. **Differentiation** 1989 Aug;41(2):116-26

Suppression of prolactin gene expression in GH cells correlates with site-specific DNA methylation. Zhang ZX, et al. **DNA** 1989 Oct;8(8):605-13

Differential effects of dehydroepiandrosterone and clofibrate on the binding of 7,12-dimethyl benz(a)anthracene to hepatic DNA in vivo--a preliminary study. Prasanna HR, et al. **Drug Chem Toxicol** 1989 Sep-Dec;12(3-4):327-35

DNA-binding of sulfur-containing metabolites from 35S-(pentachlorobutadienyl)-L-cysteine in bacteria and isolated renal tubular cells. Vamvakas S, et al. **Drug Metabol Drug Interact** 1988;6(3-4):349-58

'SPKK' motifs prefer to bind to DNA at A/T-rich sites. Churchill ME, et al. **EMBO J** 1989 Dec 20;8(13):4189-95

Selective photochemical treatment of oestrogen receptor in a Xenopus liver extract destroys hormone binding and transcriptional activation but not DNA binding. Cridland NA, et al. **EMBO J** 1990 Jun;9(6):1859-66

Resolution of synthetic Holliday junctions in DNA by an endonuclease activity from calf thymus. Elborough KM, et al. **EMBO J** 1990 Sep;9(9):2931-6

Characterization of the sequence-specific interaction of mouse c-myb protein with DNA. Howe KM, et al. **EMBO J** 1990 Jan;9(1):161-9

Restriction enzymes have limited access to DNA sequences in Drosophila chromosomes. Jack RS, et al. **EMBO J** 1990 Aug;9(8):2603-9

Reverse gyrase binding to DNA alters the double helix structure and produces single-strand cleavage in the absence of ATP. Jaxel C, et al. **EMBO J** 1989 Oct; 8(10):3135-9

DNA-directed oligomerization of the monomeric Ner repressor from the Mu-like bacteriophage D108. Kukolj G, et al. **EMBO J** 1989 Oct;8(10):3141-8

The putative transposase of transposable element Ac from Zea mays L. interacts with subterminal sequences of Ac. Kunze R, et al. **EMBO J** 1989 Nov;8(11):3177-85

Glucocorticoid receptor binds cooperatively to adjacent recognition sites. Schmid W, et al. **EMBO J** 1989 Aug; 8(8):2257-63

The specific DNA binding activity of the dioxin receptor is modulated by the 90 kd heat shock protein. Wilhelmsson A, et al. **EMBO J** 1990 Jan;9(1):69-76

Hormone-dependent regulation of chicken progesterone receptor deoxyribonucleic acid binding and phosphorylation. Denner LA, et al. **Endocrinology** 1989 Dec;125(6):3051-8

Antibodies to chicken progesterone receptor peptide 523-536 recognize a site exposed in receptor-deoxyribonucleic acid complexes but not in receptor-heat shock protein-90 complexes. Weigel NL, et al. **Endocrinology** 1989 Nov; 125(5):2494-501

Benzene adducts with rat nucleic acids and proteins: dose-response relationship after treatment in vivo. Mazzullo M, et al. **Environ Health Perspect** 1989 Jul; 82:259-66

32P analysis of DNA adducts in tissues of benzene-treated rats. Reddy MV, et al. **Environ Health Perspect** 1989 Jul; 82:253-7

Quantitative predictability of carcinogenicity of the covalent binding index of chemicals to DNA: comparison of the in vivo and in vitro assays. Taningher M, et al. **Environ Health Perspect** 1990 Mar;84:183-92

Hydrogen peroxide activates immediate binding of a Drosophila factor to DNA heat-shock regulatory element in vivo and in vitro. Becker J, et al. **Eur J Biochem** 1990 May 20;189(3):553-8

Escherichia coli DNA polymerase I: inherent exonuclease activities differentiate between monofunctional and bifunctional adducts of DNA and cis- or trans-diamminedichloroplatinum(II). An exonuclease investigation of the kinetics of the adduct formation. Bernges F, et al. **Eur J Biochem** 1990 Aug 17;191(3):743-53

Core histone-DNA interactions in sea urchin sperm chromatin. The N-terminal tail of H2B interacts with linker DNA. Hill CS, et al. **Eur J Biochem** 1990 Jan 12; 187(1):145-53

Effects of nutrients and hormones on transcriptional and post-transcriptional regulation of fatty acid synthase in rat liver. Katsurada A, et al. **Eur J Biochem** 1990 Jun 20; 190(2):427-33

Effects of nutrients and hormones on transcriptional and post-transcriptional regulation of acetyl-CoA carboxylase in rat liver. Katsurada A, et al. **Eur J Biochem** 1990 Jun 20;190(2):435-41

Pyridoxal phosphate inhibits the DNA-binding activity of the ecdysteroid receptor. Ożyhar A, et al. **Eur J Biochem** 1990 Aug 28;192(1):167-74

Nucleocytoplasmic sorting of macromolecules following mitosis: fate of nuclear constituents after inhibition of pore complex function. Benavente R, et al. **Eur J Cell Biol** 1989 Oct;50(1):209-19

CD4+CD8+ thymocytes are susceptible to DNA fragmentation induced by phorbol ester, calcium ionophore and anti-CD3 antibody. Tadakuma T, et al. **Eur J Immunol** 1990 Apr;20(4):779-84

Incorporation of tritium of 3H-5-uridine into DNA. Comings DE. **Exp Cell Res** 1966 Mar;41(3):677-81

Binding of nuclear factors to the 5'-interferon consensus sequence of the HLA-A2 class I gene. Le Bouteiller P, et al. **Exp Cell Res** 1990 Feb;186(2):203-9

Maintenance of DNA methylation level in SV40-infected human fibroblasts during their in vitro limited proliferative life span. Matsumura T, et al. **Exp Cell Res** 1989 Sep; 184(1):148-57

Levels of DNA methylation in diploid and SV40 transformed human fibroblasts. Matsumura T, et al. **Exp Gerontol** 1989; 24(5-6):477-81

Interleukin 3 opposes the action of negative regulatory protein (NRP) and of transforming growth factor-beta (TGF-beta) in their inhibition of DNA synthesis of the erythroid stem cell BFU-E. Del Rizzo DF, et al. **Exp Hematol** 1990 Feb;18(2):138-42

Nucleic acid metabolism in the gastrointestinal tract of the mouse during fasting and restraint-stress. Imondi AR, et al. **Exp Mol Pathol** 1968 Dec;9(3):339-48

DNA demethylation in erythroleukaemia cells. Adams RL, et al. **FEBS Lett** 1990 Aug 20;269(1):29-31

Eukaryotic DNA methylation: facts and problems. Doerfler W, et al. **FEBS Lett** 1990 Aug 1;268(2):329-33 (52 ref.)

DNA binding and intercalation by novel porphyrins: role of charge and substituents probed by DNase I footprinting and topoisomerase I unwinding. Kuroda R, et al. **FEBS Lett** 1990 Mar 26;262(2):293-8

Application of 13C(omega 1)-half-filtered [1H,1H]-NOESY for studies of a complex formed between DNA and a 13C-labeled minor-groove-binding drug. Leupin W, et al. **FEBS Lett** 1990 Apr 24;263(2):313-6

Calcium-dependent DNA fragmentation in human synovial cells exposed to cold shock. Perotti M, et al. **FEBS Lett** 1990 Jan 1;259(2):331-4

Benzo(a)pyrene induces nuclear-DNA adducts in plant cell suspension culture. Detection by [32P] postlabelling. Rether B, et al. **FEBS Lett** 1990 Apr 9;263(1):172-4

Acidic phospholipids directly inhibit DNA binding of mammalian DNA topoisomerase I. Tamura H, et al. **FEBS Lett** 1990 Feb 12;261(1):151-4

Eukaryotic DNA helicases. Thömmes P, et al. **FEBS Lett** 1990 Aug 1;268(2):325-8 (23 ref.)

Interaction of histones H1 and H1(0) with superhelical and linear DNA. Yaneva J, et al. **FEBS Lett** 1990 Apr 24; 263(2):225-8

Ethylene dichloride: the influence of disulfiram or ethanol on oncogenicity, metabolism, and DNA covalent binding in rats. Cheever KL, et al. **Fundam Appl Toxicol** 1990 Feb; 14(2):243-61

4,4'-Methylene-bis(2-chloroaniline) (MOCA): comparison of macromolecular adduct formation after oral or dermal administration in the rat. Cheever KL, et al. **Fundam Appl Toxicol** 1990 Feb;14(2):273-83

A cassette with seven unique restriction sites, including octanucleotide sequences: extension of multiple-cloning-site plasmids. Hoheisel JD. **Gene** 1989 Aug 1;80(1):151-4

A DNA-binding protein containing two widely separated zinc finger motifs that recognize the same DNA sequence. Fan CM, et al. **Genes Dev** 1990 Jan;4(1):29-42

Transcription factor ATF cDNA clones: an extensive family of leucine zipper proteins able to selectively form DNA-binding heterodimers [published erratum appears in Genes Dev 1990 Apr;4(4):682] Hai TW, et al. **Genes Dev** 1989 Dec;3(12B):2083-90

The Oct-2 protein binds cooperatively to adjacent octamer sites. LeBowitz JH, et al. **Genes Dev** 1989 Oct; 3(10):1625-38

Cellular mosaicism in the methylation and expression of hemizygous loci in the mouse. McGowan R, et al. **Genes Dev** 1989 Nov;3(11):1669-76

Casein kinase II enhances the DNA binding activity of serum response factor. Manak JR, et al. **Genes Dev** 1990 Jun; 4(6):955-67

Somatically heritable switches in the DNA modification of Mu transposable elements monitored with a suppressible mutant in maize. Martienssen R, et al. **Genes Dev** 1990 Mar; 4(3):331-43

The cell-specific transcription factor PTF1 contains two different subunits that interact with the DNA. Roux E, et al. **Genes Dev** 1989 Oct;3(10):1613-24

Mutations in the glucocorticoid receptor zinc finger region that distinguish interdigitated DNA binding and transcriptional enhancement activities. Schena M, et al. **Genes Dev** 1989 Oct;3(10):1590-601

Different requirements for formation of Jun: Jun and Jun: Fos complexes. Smeal T, et al. **Genes Dev** 1989 Dec; 3(12B):2091-100

Endopolyploidy in follicle epithelial cells around the nurse chamber during oogenesis in Chrysomya putoria (Diptera,

Calliphoridae). Avancini RM, et al. **Genetica** 1990; 81(1):5–10

DNA methylation in eukaryotes: kinetics of demethylation and de novo methylation during the life cycle. Otto SP, et al. **Genetics** 1990 Feb;124(2):429–37

Protein:DNA interactions at chromosomal loop attachment sites. Blasquez VC, et al. **Genome** 1989;31(2):503–9 (38 ref.)

The human recombination strand exchange process. Moore SP, et al. **Genome** 1989;31(1):45–52

Low-grade stromal sarcoma: DNA flow cytometric analysis and estrogen progesterone receptor data. Dunton CJ, et al. **Gynecol Oncol** 1990 May;37(2):268–75

Flow cytometric analysis of cellular DNA content in ovarian cancer. Hamaguchi K, et al. **Gynecol Oncol** 1990 May; 37(2):219–23

DNA looping and regulation of the arabinose operon. Schleif R. **Harvey Lect** 1988–89;84:27–39 (33 ref.)

Topoisomerase II as a target of antileukemia drugs: a review of controversial areas. Zwelling LA. **Hematol Pathol** 1989; 3(3):101–12 (112 ref.)

The time course of liver DNA and RNA alterations in acute experimental pancreatitis in rats—a possible mechanism of prostacyclin (PGI2) protection. Jurkowska G, et al. **Hepatogastroenterology** 1989 Aug;36(4):249–54

Tumor necrosis factor-alpha induces a kappa B sequence-specific DNA-binding protein in human hepatoblastoma HepG2 cells. Banerjee R, et al. **Hepatology** 1989 Dec;10(6):1008–13

Parameters influencing the flow cytometric analysis of DNA sensitivity to nuclease S1. Prosperi E, et al. **Histochemistry** 1990;93(4):417–21

Use of the 32P-postlabelling assay to study transplacental carcinogens and transplacental carcinogenesis. Randerath K, et al. **IARC Sci Publ** 1989;(96):189–205 (59 ref.)

Genetic and physiological variations in megakaryocyte DNA content distributions. Jackson CW, et al. **Int J Cell Cloning** 1990 Jul;8(4):260–6 (15 ref.)

The relationship between megakaryocyte nuclear DNA content and gene expression. Lelchuk R, et al. **Int J Cell Cloning** 1990 Jul;8(4):277–82

The fate of DNA-protein crosslinks formed in gamma-irradiated metaphase cells. Chiu SM, et al. **Int J Radiat Biol** 1990 Aug;58(2):235–47

The induction of DNA double-strand breaks in CHO cells by Pvu II: kinetics using neutral filter elution (pH 9.6). Costa ND, et al. **Int J Radiat Biol** 1990 May;57(5):933–8

Fast kinetics of the oxygen effect for DNA double-strand breakage and cell killing in irradiated yeast. Frankenberg D, et al. **Int J Radiat Biol** 1990 Mar;57(3):485–501

Interaction of copper(I) with nucleic acids. Prütz WA, et al. **Int J Radiat Biol** 1990 Aug;58(2):215–34

Interaction of chromatin glycoproteins with DNA. Eufemi M, et al. **Ital J Biochem** 1989 Jul–Aug;38(4):281A–283A

Acid-soluble tightly-bound chromatin proteins and DNA methylation. Reale A, et al. **Ital J Biochem** 1989 Nov–Dec; 38(6):392A–394A

Nucleotide sequence of SN-07 chromophore binding site. Kimura K, et al. **J Antibiot (Tokyo)** 1989 Dec; 42(12):1838–43

Synthesis and characterization of deoxyguanosine-benzoquinone adducts. Jowa L, et al. **J Appl Toxicol** 1990 Feb;10(1):47–54

DNase I footprinting analysis of RecA protein polymerized on DNA during strand exchange reaction between a gapped circle and a linear duplex. Akaboshi E, et al. **J Biochem (Tokyo)** 1990 May;107(5):781–6

The binding of reactive metabolites of the carcinogen N-hydroxy-2-acetylaminofluorene to DNA and protein in isolated rat liver nuclei: effects of glutathione and methionine. Meerman JH, et al. **J Biochem Toxicol** 1986 Jun;1(2):1–10

Binding of wheat and chicken high mobility group chromosomal proteins to DNA and to wheat and chicken mononucleosomes. Arwood LJ, et al. **J Biol Chem** 1990 Jun 15;265(17):9771–7

Zinc fingers and other metal-binding domains. Elements for interactions between macromolecules. Berg JM. **J Biol Chem** 1990 Apr 25;265(12):6513–6 (70 ref.)

Human estrogen receptor forms multiple protein-DNA complexes. Brown M, et al. **J Biol Chem** 1990 Jul 5; 265(19):11238–43

Phenomenological theory of gel electrophoresis of protein-nucleic acid complexes. Cann JR. **J Biol Chem** 1989 Oct 15;264(29):17032–40

Alpha and beta thyroid hormone receptors bind immediately adjacent to the rat growth hormone gene TATA box in a negatively hormone-responsive promoter region. Crone DE, et al. **J Biol Chem** 1990 Jul 5;265(19):10851–6

Cooperative DNA binding by Xenopus transcription factor IIIA. Use of a 66-base pair DNA fragment containing the intragenic control region of the 5 S RNA gene to study specific and nonspecific interactions. Daly TJ, et al. **J Biol Chem** 1989 Dec 5;264(34):20394–402

2,3,7,8-Tetrachlorodibenzo-p-dioxin-inducible, Ah receptor-mediated bending of enhancer DNA. Elferink CJ, et al. **J Biol Chem** 1990 Apr 5;265(10):5718–21

Protein-protein contacts in the glucocorticoid receptor homodimer influence its DNA binding properties. Eriksson P, et al. **J Biol Chem** 1990 Feb 25;265(6):3535–42

Interaction of thyroid hormone receptors with strong and weak cis-acting elements in the human alpha-myosin heavy chain gene promoter. Flink IL, et al. **J Biol Chem** 1990 Jul 5;265(19):11233–7

Purification and characterization of HeLa endonuclease R. A G-specific mammalian endonuclease. Gottlieb J, et al. **J Biol Chem** 1990 Jul 5;265(19):10836–41

Substrate specificity of HeLa endonuclease R. A G-specific mammalian endonuclease. Gottlieb J, et al. **J Biol Chem** 1990 Jul 5;265(19):10842–50

Structural motif of the DNA binding domain of gamma delta-resolvase characterized by affinity cleaving. Graham KS, et al. **J Biol Chem** 1990 Sep 25;265(27):16534–40

Maize high mobility group proteins bind to CCAAT and TATA boxes of a zein gene promoter. Grasser KD, et al. **J Biol Chem** 1990 Mar 15;265(8):4185–8

Modulation of the DNA scanning activity of the Micrococcus luteus UV endonuclease. Hamilton RW, et al. **J Biol Chem** 1989 Oct 15;264(29):17422–7

Kinetic analysis of Escherichia coli RNase H using DNA-RNA-DNA/DNA substrates. Hogrefe HH, et al. **J Biol Chem** 1990 Apr 5;265(10):5561–6

Multiple DNA-binding estrogen receptor forms resolved by interaction with immobilized metal ions. Identification of a metal-binding domain. Hutchens TW, et al. **J Biol Chem** 1989 Oct 15;264(29):17206–12

Enhanced recA protein binding to Z DNA represents a kinetic perturbation of a general duplex DNA binding pathway. Kim JI, et al. **J Biol Chem** 1989 Dec 25; 264(36):21848–56

Assembly and disassembly of RecA protein filaments occur at opposite filament ends. Relationship to DNA strand exchange. Lindsley JE, et al. **J Biol Chem** 1990 Jun 5; 265(16):9043–54

Transcription signals and protein binding sites for sericin gene transcription in vitro. Matsuno K, et al. **J Biol Chem** 1989 Nov 5;264(31):18707–13

DNA binding activity and transcriptional activator function of the human B-myb protein compared with c-MYB. Mizuguchi G, et al. **J Biol Chem** 1990 Jun 5;265(16):9280–4

Purification and characterization of a protein from human cells which promotes homologous pairing of DNA. Moore SP, et al. **J Biol Chem** 1990 Jul 5;265(19):11108–17

Substrate and DNA binding to a 50-residue peptide fragment of DNA polymerase I. Comparison with the enzyme. Mullen GP, et al. **J Biol Chem** 1989 Nov 25; 264(33):19637–47

Activation of the dioxin and glucocorticoid receptors to a DNA binding state under cell-free conditions. Nemoto T, et al. **J Biol Chem** 1990 Feb 5;265(4):2269–77

Formation and enzymatic properties of the UvrB.DNA complex. Orren DK, et al. **J Biol Chem** 1990 Sep 15; 265(26):15796–803

Interaction of a four-way junction in DNA with T4 endonuclease VII. Parsons CA, et al. **J Biol Chem** 1990 Jun 5;265(16):9285–9

Functional analysis of Arg-308 mutants of Flp recombinase. Possible role of Arg-308 in coupling substrate binding to catalysis. Parsons RL, et al. **J Biol Chem** 1990 Mar 15; 265(8):4527–33

UvrABC incision of N-methylmitomycin A-DNA monoadducts and cross-links. Pu WT, et al. **J Biol Chem** 1989 Dec 5;264(34):20697–704

The A.T-DNA-binding domain of mammalian high mobility group I chromosomal proteins. A novel peptide motif for recognizing DNA structure. Reeves R, et al. **J Biol Chem** 1990 May 25;265(15):8573–82

Identification of peptides involved in S-adenosylmethionine binding in the EcoRI DNA methylase. Photoaffinity laveling with 8-azido-S-adenosylmethionine. Reich NO, et al. **J Biol Chem** 1990 May 25;265(15):8929–34

Chiral and structural discrimination in binding of polypeptides with condensed nucleic acid structures. Reich Z, et al. **J Biol Chem** 1990 Apr 5;265(10):5590–4

Aryl hydrocarbon (Ah) receptor DNA-binding activity. Sequence specificity and Zn2+ requirement. Saatcioglu F, et al. **J Biol Chem** 1990 Jun 5;265(16):9251–8

The in vitro DNA-binding properties of purified nuclear lamin proteins and vimentin. Shoeman RL, et al. **J Biol Chem** 1990 Jun 5;265(16):9055–61

Common protein-binding sites in the 5'-flanking regions of human genes for cytochrome c1 and ubiquinone-binding protein. Suzuki H, et al. **J Biol Chem** 1990 May 15; 265(14):8159–63

Minimal DNA duplex requirements for topoisomerase I-mediated cleavage in vitro. Svejstrup JQ, et al. **J Biol Chem** 1990 Jul 25;265(21):12529–35

DNA sequence analysis with a modified bacteriophage T7 DNA polymerase. Effect of pyrophosphorolysis and metal ions. Tabor S, et al. **J Biol Chem** 1990 May 15; 265(14):8322–8

Purification, subunit structure, and DNA binding properties of the mouse oxysterol receptor. Taylor FR, et al. **J Biol Chem** 1989 Nov 5;264(31):18433–9

Control of the adipsin gene in adipocyte differentiation. Identification of distinct nuclear factors binding to single- and double-stranded DNA. Wilkison WO, et al. **J Biol Chem** 1990 Jan 5;265(1):477–82

The transcription complex of the Xenopus somatic 5 S RNA gene. A functional analysis of protein-DNA interactions outside of the internal control region. Wolffe AP, et al. **J Biol Chem** 1990 Mar 15;265(8):4592–9

Binding of nuclear proteins to the rat liver S14 gene is influenced by thyroid state. Wong NC, et al. **J Biol Chem** 1990 May 25;265(15):8775–81

Phosphorylation-dependent binding of a 138-kDa myc intron factor to a regulatory element in the first intron of the c-myc gene. Zajac-Kaye M, et al. **J Biol Chem** 1990 Mar 15;265(8):4547–51

Identification of multiple thyroid hormone response elements located far upstream from the rat S14 promoter. Zilz ND, et al. **J Biol Chem** 1990 May 15;265(14):8136–43

Recognition of Z-RNA and Z-DNA determinants by polyamines in solution: experimental and theoretical studies. Basu HS, et al. **J Biomol Struct Dyn** 1988 Oct; 6(2):299–309

Selection of DNA binding sites by regulatory proteins. Functional specificity and pseudosite competition. Berg OG. **J Biomol Struct Dyn** 1988 Oct;6(2):273–97

The structure of the aflatoxin B1-DNA adduct at N7 of guanine. Theoretical intercalation and covalent adduct models. Bonnett M, et al. **J Biomol Struct Dyn** 1989 Aug; 7(1):127–49 (81 ref.)

Binding of nonintercalative antitumor drugs to DNA-polymers: structural effects of bisquaternary ammonium heterocycles. Burckhardt G, et al. **J Biomol Struct Dyn** 1987 Apr;4(5):813–31

The thermodynamics of drug-DNA interactions: ethidium bromide and propidium iodide. Chou WY, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):345–59

Labelling of histone H5 and its interaction with DNA. 1. Histone H5 labelling with fluorescein isothiocyanate. Favazza M, et al. **J Biomol Struct Dyn** 1990 Jun; 7(6):1291–300

Phosphate catalyzed exchange rates of NH-N protons of DNA. Fritzsche H, et al. **J Biomol Struct Dyn** 1988 Oct; 6(2):383–90

Theoretical analysis of the footprinting experiment. Goodisman J, et al. **J Biomol Struct Dyn** 1985 Feb; 2(5):967–79

Theoretical studies on alpha-helix—DNA interactions. Gopalakrishnan B, et al. **J Biomol Struct Dyn** 1988 Feb; 5(4):859–71

Interactions of acridine orange with double stranded nucleic acids. Spectral and affinity studies. Kapuscinski J, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):127–43

The structure of DAPI bound to DNA. Larsen TA, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):477–91

Labelling of histone H5 and its interaction with DNA. 2. Cooperative binding of histone H5 to DNA as probed by steady-state fluorescence and diffusion-enhanced energy transfer. Lerho M, et al. **J Biomol Struct Dyn** 1990 Jun; 7(6):1301–19

Mapping the binding site of aflatoxin B1 in DNA: molecular modeling of the binding sites for the N(7)-guanine adduct of aflatoxin B1 in different DNA sequences. Loechler EL, et al. **J Biomol Struct Dyn** 1988 Jun;5(6):1237–57

Interaction of the nonintercalative antitumour drugs SN-6999 and SN-18071 with DNA: influence of ligand structure on the binding specificity. Luck G, et al. **J Biomol Struct Dyn** 1987 Jun;4(6):1079–94

Circular dichroism of sanguinarine-DNA complexes: effect of base composition, pH and ionic strength. Maiti M, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):159–75

Thermodynamics of drug-DNA interactions. Marky LA, et al. **J Biomol Struct Dyn** 1983 Oct;1(2):487–507

A theoretical model for the binding of cis-Pt(NH3)2(+2) to DNA. Miller KJ, et al. **J Biomol Struct Dyn** 1985 Jun; 2(6):1157–71

Structural alteration from non-B to B-form could reflect DNase I hypersensitivity. Ramesh N, et al. **J Biomol Struct Dyn** 1989 Apr;6(5):899–906

Role of the environment in the interaction of nonintercalators with Z-DNA. Rao KE, et al. **J Biomol Struct Dyn** 1989 Oct;7(2):335–45

7-Azido-actinomycin D: a photoaffinity probe of the sequence specificity of DNA binding by actinomycin D. Rill RL, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):591–605

Carcinogen-nucleic acid interactions: equilibrium binding studies of aflatoxins B1 and B2 with DNA and the oligodeoxynucleotide d(ATGCAT)2. Stone MP, et al. **J Biomol Struct Dyn** 1988 Apr;5(5):1025–41

Flexibility of DNA and RNA upon binding to different metal cations. An investigation of the B to A to Z conformational transition by Fourier transform infrared spectroscopy. Theophanides T, et al. **J Biomol Struct Dyn** 1985 Feb; 2(5):995–1004

Electron microscopic and physico-chemical studies of DNA complexes with synthetic oligopeptides: binding specificity and DNA compact structures. Vengerov YY, et al. **J Biomol Struct Dyn** 1988 Oct;6(2):311–30

Interactions between a symmetrical minor groove binding compound and DNA oligonucleotides: 1H and 19F NMR studies. Wang AH, et al. **J Biomol Struct Dyn** 1989 Aug; 7(1):101–17

Quantitative footprinting analysis of the netropsin-DNA interaction. Ward B, et al. **J Biomol Struct Dyn** 1987 Apr; 4(5):685–95

Drug recognition of DNA. Proposal for GC minor groove specific ligands: vinylexins. Zakrzewska K, et al. **J Biomol Struct Dyn** 1988 Oct;6(2):331–44

A theoretical study of the sequence specificity in binding of lexitropsins to B-DNA. Zakrzewska K, et al. **J Biomol Struct Dyn** 1987 Apr;4(5):833–43

Theoretical study of the sequence selectivity of isolexins, isohelical DNA groove binding ligands. Proposal for the GC minor groove specific compounds. Zakrzewska K, et

al. J Biomol Struct Dyn 1988 Apr;5(5):1043–58
Sequence selectivity, a test of the nature of the covalent adduct formed between benzo[a]pyrene and DNA. Zakrzewska K, et al. J Biomol Struct Dyn 1987 Apr; 4(5):845–58
Long–term persistence of DNA alkylation in hamster tissues after N–nitrosobis(2–oxopropyl)amine. Bax J, et al. J Cancer Res Clin Oncol 1990;116(2):149–55
Intercellular variation in levels of adducts of aflatoxin B1 and G1 in DNA from rat tissues: a quantitative immunocytochemical study. Wild CP, et al. J Cancer Res Clin Oncol 1990;116(2):134–40
DNA–binding activity of Jun is increased through its interaction with Fos. Allegretto EA, et al. J Cell Biochem 1990 Apr;42(4):193–206
Differential repair and replication of damaged DNA in ribosomal RNA genes in different CHO cell lines. Wauthier EL, et al. J Cell Biochem 1990 Jun;43(2):173–83
Inhibition of replicon cluster ligation into chromosomal DNA at elevated temperatures. Warters RL, et al. J Cell Physiol 1990 Feb;142(2):365–71
DNA–RNA complexes that might represent transient attachment sites of nuclear DNA to the matrix. Patriotis C, et al. J Cell Sci 1990 Apr;95 (Pt 4):667–74
Preparation of electrophoric derivatives of N7–(2–hydroxyethyl)guanine, an ethylene oxide DNA adduct. Allam K, et al. J Chromatogr 1990 Jan 19;499:571–8
Transthyretin messenger ribonucleic acid expression in the pancreas and in endocrine tumors of the pancreas and gut. Jacobsson B, et al. J Clin Endocrinol Metab 1990 Oct; 71(4):875–80
Methylation of DNA in megaloblastic anaemia. Perry J, et al. J Clin Pathol 1990 Mar;43(3):211–2
Loss of a DNA–protein complex correlates with extinguished major histocompatibility complex class II expression in a human B cell. Finn PW, et al. J Exp Med 1990 Jun 1; 171(6):2159–64
DNA methylation and differentiation of human keratinocytes. Veres DA, et al. J Invest Dermatol 1989 Nov;93(5):687–90
(1–Pyrenylmethyl)amino alcohols, a new class of antitumor DNA intercalators. Discovery and initial amine side chain structure–activity studies. Bair KW, et al. J Med Chem 1990 Sep;33(9):2385–93
DNA intercalating properties of tetrahydro–9–aminoacridines. Synthesis and 23Na NMR spin–lattice relaxation time measurements. Dinesen J, et al. J Med Chem 1990 Jan;33(1):93–7
Binding of cis(1,2–diaminocyclohexane)platinum(II) and its derivatives to duplex DNA. Miller KJ, et al. J Med Chem 1990 Mar;33(3):1043–6
Antitumor and DNA–binding properties of a group of oligomeric complexes of Pt(II) and Pt(IV). Peritz A, et al. J Med Chem 1990 Aug;33(8):2184–8
Kinetic and equilibrium binding studies of amsacrine–4–carboxamides: a class of asymmetrical DNA–intercalating agents which bind by threading through the DNA helix. Wakelin LP, et al. J Med Chem 1990 Jul;33(7):2039–44
DNA binding by antitumor anthracene derivatives. Wunz TP, et al. J Med Chem 1990 Jun;33(6):1549–53
Aluminium binding to chromatin DNA as revealed by formation of fluorescent complexes with 8–hydroxyquinoline and other ligands. Llorente AR, et al. J Microsc 1989 Aug;155 (Pt 2):227–30
Electrostatic mechanism of chromatin folding. Clark DJ, et al. J Mol Biol 1990 Feb 20;211(4):883–96
Role of the hydrophobic effect in stability of site–specific protein–DNA complexes. Ha JH, et al. J Mol Biol 1989 Oct 20;209(4):801–16
Highly preferential nucleation of histone H1 assembly on scaffold–associated regions. Izaurralde E, et al. J Mol Biol 1989 Dec 5;210(3):573–85
Specific inhibition of DNA binding to nuclear scaffolds and histone H1 by distamycin. The role of oligo(dA).oligo(dT) tracts. Käs E, et al. J Mol Biol 1989 Dec 5;210(3):587–99
Characterization of the DNA binding activity of stable RecA–DNA complexes. Interaction between the two DNA binding sites within RecA helical filaments. Müller B, et al. J Mol Biol 1990 Mar 5;212(1):97–112
Synergistic activation of transcription by multiple binding sites for NF–kappa B even in absence of co–operative factor binding to DNA. Pettersson M, et al. J Mol Biol 1990 Jul 20;214(2):373–80
Cleavage specificity of bacteriophage T4 endonuclease VII and bacteriophage T7 endonuclease I on synthetic branch migratable Holliday junctions. Picksley SM, et al. J Mol Biol 1990 Apr 20;212(4):723–35
Cloning, over–expression and the catalytic properties of the EcoP15 modification methylase from Escherichia coli. Rao DN, et al. J Mol Biol 1989 Oct 20;209(4):599–606
Crystallization of Escherichia coli catabolite gene activator protein with its DNA binding site. The use of modular DNA. Schultz SC, et al. J Mol Biol 1990 May 5; 213(1):159–66
Specificity and flexibility of the recognition of DNA helical structure by eukaryotic topoisomerase I. Shen CC, et al. J Mol Biol 1990 Mar 5;212(1):67–78
Action of RecBCD enzyme on cruciform DNA. Taylor AF, et al. J Mol Biol 1990 Jan 5;211(1):117–34
Chromatin reconstitution on small DNA rings. III. Histone H5 dependence of DNA supercoiling in the nucleosome. Zivanovic Y, et al. J Mol Biol 1990 Jul 20;214(2):479–95
An alpha–helical peptide model for electrostatic interactions of proteins with DNA. The N terminus of RecA. Zlotnick A, et al. J Mol Biol 1989 Oct 5;209(3):447–57
Molecular recognition between oligopeptides and nucleic acids. DNA sequence specificity and binding properties of an acridine–linked netropsin hybrid ligand. Bailly C, et al. J Mol Recognit 1990 Feb;3(1):26–35
Sequence–selective, pH–dependent binding to DNA of benzophenanthridine alkaloids. Bajaj NP, et al. J Mol Recognit 1990 Feb;3(1):48–54
Molecular recognition between oligopeptides and nucleic acids. Sequence specific binding of (4S)–(+)– and (4R)–(–)–dihydrokikumycin B to DNA deduced from 1H NMR, footprinting studies and thermodynamic data. Lee M, et al. J Mol Recognit 1989 Jul;2(1):6–17
Molecular recognition between oligopeptides and nucleic acids. Specificity of binding of a monocationic bis–furan lexitropsin to DNA deduced from footprinting and 1H NMR studies. Lee M, et al. J Mol Recognit 1989 Sep; 2(2):84–93
Chemical probes reveal no evidence of Hoogsteen base pairing in complexes formed between echinomycin and DNA in solution. McLean MJ, et al. J Mol Recognit 1988 Jun;1(3):138–51
Application of a degenerate consensus sequence to quantify recognition sites by vertebrate DNA topoisomerase II. Spitzner JR, et al. J Mol Recognit 1989 Sep;2(2):63–74
Molecular cloning of human myelin–associated glycoprotein. Spagnol G, et al. J Neurosci Res 1989 Oct;24(2):137–42
Iron–dependent peroxidation of rat brain: a regional study. Subbarao KV, et al. J Neurosci Res 1990 Jun;26(2):224–32
Design, synthesis, DNA binding, and biological activity of a series of DNA minor–groove–binding intercalating drugs. Bailly C, et al. J Pharm Sci 1989 Nov;78(11):910–7
A method for the determination of PUVA–induced in vivo irreversible binding of 8–methoxypsoralen (8–MOP) to epidermal lipids, proteins and DNA/RNA. Beijersbergen van Henegouwen GM, et al. J Photochem Photobiol B 1989 Aug;3(4):631–5
Reaction of tyrosyl–modifying reagents with the ligand– and DNA–binding domains of the rabbit liver glucocorticoid receptor. Blanchardie P, et al. J Steroid Biochem 1990 Jun; 36(1–2):15–23
Interaction of the chicken progesterone receptor with heat shock protein (HSP) 90. Carson–Jurica MA, et al. J Steroid Biochem 1989;34(1–6):1–9
Analysis of glucocorticoid receptor subspecies binding to DNA–cellulose and isolated nuclei. Gruol DJ, et al. J Steroid Biochem 1989;34(1–6):319–23
The non–activated glucocorticoid receptor: structure and activation. Gustafsson JA, et al. J Steroid Biochem 1989; 34(1–6):53–62
Steroid mediated lysis of lymphoblasts requires the DNA binding region of the steroid hormone receptor. Harbour DV, et al. J Steroid Biochem 1990 Jan;35(1):1–9
Differential regulation of DNA methylation in rat testis and its regulation by gonadotropic hormones. Reddy PM, et al. J Steroid Biochem 1990 Feb;35(2):173–8
Binding of steroid receptors to the HREs of mouse mammary tumor virus, chicken and xenopus vitellogenin and rabbit uteroglobin genes: correlation with induction. Slater EP, et al. J Steroid Biochem 1989;34(1–6):11–6
The domain model for eukaryotic DNA organization. 2: A molecular basis for constraints on development and evolution. Bodnar JW, et al. J Theor Biol 1989 Apr 6; 137(3):281–320
The importance of intercalation in the covalent binding of benzo(a)pyrene diol epoxide to DNA. Macleod MC. J Theor Biol 1990 Jan 9;142(1):113–22
DNA bending induced by specific interaction of decamer binding proteins with immunoglobulin gene control sequences. Brack C, et al. J Ultrastruct Mol Struct Res 1988 Nov–Dec;101(2–3):145–58
Sequence–specific DNA binding by the v–erbA oncogene protein of avian erythroblastosis virus. Bonde BG, et al. J Virol 1990 Mar;64(3):1314–20
Identification of simian virus 40 T–antigen residues important for specific and nonspecific binding to DNA and for helicase activity. Simmons DT, et al. J Virol 1990 Oct; 64(10):4858–65
Adenovirus DNA–binding protein forms a multimeric protein complex with double–stranded DNA and enhances binding of nuclear factor I. Stuiver MH, et al. J Virol 1990 Jan;64(1):379–86
Enhancement by cysteinyl thiols of acetyltransferase–mediated, but not of sulfotransferase–mediated, binding of a pyrolysate–derived N–hydroxyarylamine, 2–hydroxyamino–6–methyldipyrido[1,2–a:3',2'–d]imidazole, to DNA. Abu–Zeid M, et al. Jpn J Cancer Res 1990 Jun–Jul;81(6–7):653–9
Molecular basis of 4–nitroquinoline 1–oxide carcinogenesis. Bailleul B, et al. Jpn J Cancer Res 1989 Aug;80(8):691–7 (56 ref.)
Random segregation of DNA strands in epidermal basal cells. Kuroki T, et al. Jpn J Cancer Res 1989 Jul;80(7):637–42
Species and organ differences in DNA adduct formation and repair after treatment with 4–hydroxyaminoquinoline 1–oxide. Qin XS, et al. Jpn J Cancer Res 1990 Jun–Jul; 81(6–7):613–9
Effect of butylated hydroxyanisole on the level of DNA adduction by aristolochic acid in the rat forestomach and liver. Routledge MN, et al. Jpn J Cancer Res 1990 Mar; 81(3):220–4
Significant increase of 8–hydroxydeoxyguanosine in liver DNA of rats following short–term exposure to the peroxisome proliferators di(2–ethylhexyl)phthalate and di(2–ethylhexyl)adipate. Takagi A, et al. Jpn J Cancer Res 1990 Mar;81(3):213–5
DNA modification by 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine in rats. Takayama K, et al. Jpn J Cancer Res 1989 Dec; 80(12):1145–8
DNA adducts formed by 2–amino–3,8–dimethylimidazo[4,5–f]quinoxaline in rat liver: dose–response on chronic administration. Yamashita K, et al. Jpn J Cancer Res 1990 May;81(5):470–6
Streaming liver. VII: DNA turnover in acinus zone–3. Zajicek G, et al. Liver 1990 Jun;10(3):137–40
DNA methylation and the regulation of gene expression. Konkel DA. Med Hypotheses 1989 Aug;29(4):261–3
Phosphorus–31 nuclear magnetic resonance of enzyme complexes: bound ligand structure, dynamics, and environment. Gorenstein DG. Methods Enzymol 1989; 177:295–316
Sequence preference of chloroquine binding to DNA and prevention of Z–DNA formation. Kwakye–Berko F, et al. Mol Biochem Parasitol 1990 Mar;39(2):275–8
Evolution of nuclear DNA and the occurrence of sequences related to new small chromosomal DNAs in the trypanosomatid genus Endotrypanum. Lopes AH, et al. Mol Biochem Parasitol 1990 May;40(2):151–61
Stable expression of human cytochrome P450IA2 cDNA in a human lymphoblastoid cell line: role of the enzyme in the metabolic activation of aflatoxin B1. Crespi CL, et al. Mol Carcinog 1990;3(1):5–8
A human endonuclease incises ultraviolet–irradiated DNA at cytosines and oxidized DNA at thymines. Gallagher PE, et al. Mol Carcinog 1989;2(4):188–91
Interaction of an ultimate carcinogen, benzo[a]pyrene diol epoxide, with nucleosomal core particles: apparent lack of protection of DNA by histone proteins. MacLeod MC, et al. Mol Carcinog 1989;1(4):245–52
Two nearby sites bind zen protein independently. Chen HZ, et al. Mol Cell Biochem 1989 Oct 5;90(1):27–35
Reduced RNA synthesis levels in isolated mouse liver nuclei following reaction with [(H2O)(NH3)5Ru(II)]2+. Marx KA, et al. Mol Cell Biochem 1989 Oct 5;90(1):37–45
Effect of prolactin on DNA methylation in the liver and kidney of rat. Reddy PM, et al. Mol Cell Biochem 1990 Jun 1;95(1):43–7
Photolyases from Saccharomyces cerevisiae and Escherichia coli recognize common binding determinants in DNA containing pyrimidine dimers. Baer M, et al. Mol Cell Biol 1989 Nov;9(11):4777–88
Human transcription factor TFIIIC2 specifically interacts with a unique sequence in the Xenopus laevis 5S rRNA gene. Fradkin LG, et al. Mol Cell Biol 1989 Nov; 9(11):4941–50
Degradation of linear DNA by a strand–specific exonuclease activity in Xenopus laevis oocytes. Maryon E, et al. Mol Cell Biol 1989 Nov;9(11):4862–71
Thyroid hormone receptors from IM–9 cells but not HeLa cells bind to promoters of triiodothyronine–responsive genes. Barlow JW, et al. Mol Cell Endocrinol 1990 Mar 5;69(2–3):129–34
The binding of transformed aromatic hydrocarbon (Ah) receptor to its DNA recognition site is not affected by metal depletion. Denison MS, et al. Mol Cell Endocrinol 1990 Feb 12;69(1):51–7
Uterine estrogen receptor interaction with estrogen–responsive DNA sequences in vitro: effects of ligand binding on receptor–DNA complexes. Curtis SW, et al. Mol Endocrinol 1990 Feb;4(2):276–86
Unique molecular properties of a urea– and salt–stable DNA–binding estrogen receptor dimer covalently labeled with the antiestrogen [3H]desmethylnafoxidine aziridine. A comparison with the estrogen–receptor complex. Hutchens TW, et al. Mol Endocrinol 1990 Feb;4(2):255–67
A role for DNA methylation in vertebrate gene expression? Strobl JS. Mol Endocrinol 1990 Feb;4(2):181–3 (24 ref.)
Episomal replication of cloned DNA injected into the fertilised ovum of the hen, Gallus domesticus. Sang H, et al. Mol Reprod Dev 1989;1(2):98–106
Clonally derived cell lines with altered DNA methylation as models for error correction and mutation in tumours. Diver WP, et al. Mutagenesis 1989 Nov;4(6):462–6

Determination of benzidine--DNA adduct formation in CHO, HeLa, L5178Y, TK6 and V79 cells. Phillips DH, et al. **Mutagenesis** 1990;5 Suppl:67–9

Molecular dosimetry of DNA adducts in Chinese hamster ovary cells and C3H10T1/2 mouse embryo fibroblast cells treated with benzo[a]pyrene. Watson WP, et al. **Mutagenesis** 1990 Jul;5(4):381–5

Distribution of methyl and ethyl adducts following alkylation with monofunctional alkylating agents. Beranek DT. **Mutat Res** 1990 Jul;231(1):11–30 (110 ref.)

Spontaneous deamination of cytosine and 5-methylcytosine residues in DNA and replacement of 5-methylcytosine residues with cytosine residues. Ehrlich M, et al. **Mutat Res** 1990 May;238(3):277–86 (55 ref.)

Differential cell cycle modulation of human DNA glycosylases against oxidized pyrimidines. Ganguly T, et al. **Mutat Res** 1990 Mar;235(2):137–46

No measurable increase in thymidine glycol or 8-hydroxydeoxyguanosine in liver DNA of rats treated with nafenopin or choline-devoid low-methionine diet. Hegi ME, et al. **Mutat Res** 1990 May;238(3):325–9

In vitro and in vivo reactions of nucleic acids with reducing sugars. Lee AT, et al. **Mutat Res** 1990 May;238(3):185–91 (24 ref.)

Nitrosation of aspartic acid, aspartame, and glycine ethylester. Alkylation of 4-(p-nitrobenzyl)pyridine (NBP) in vitro and binding to DNA in the rat. Meier I, et al. **Mutat Res** 1990 May;238(3):193–201

Catechin inhibition of mutagenesis and alteration of DNA binding of 2-acetyl-aminofluorene in rat hepatocytes. Monteith DK. **Mutat Res** 1990 Feb;240(2):151–8

Chromatin-associated DNA endonucleases from xeroderma pigmentosum cells are defective in interaction with damaged nucleosomal DNA. Parrish DD, et al. **Mutat Res** 1990 Mar;235(2):65–80

Further evidence that eugenol does not bind to DNA in vivo. Phillips DH. **Mutat Res** 1990 Sep;245(1):23–6

Age-related DNA modifications (I-compounds): modulation by physiological and pathological processes. Randerath K, et al. **Mutat Res** 1990 May;238(3):245–53 (23 ref.)

A comparison of DNA adduct formation in white blood cells and internal organs of mice exposed to benzo[a]pyrene, dibenzo[c,g]carbazole, safrole and cigarette smoke condensate. Reddy MV, et al. **Mutat Res** 1990 May; 241(1):37–48

Role of the carbamoylation reaction in the biological activity of methyl nitrosourea. Serebryanyi AM, et al. **Mutat Res** 1990 Aug;231(2):195–203

Clonal variation in gene methylation: c-H-ras and alpha-hCG regions vary independently in human fibroblast lineages. Shmookler Reis RJ, et al. **Mutat Res** 1990 Jan; 237(1):45–57

Hypoxanthine enhances hydroxyurea-induced sister-chromatid exchanges in Chinese hamster ovary cells. Tohda H, et al. **Mutat Res** 1990 Jun;230(2):235–40

DNA adduct formation in mouse testis by ethylating agents: a comparison with germ-cell mutagenesis. van Zeeland AA, et al. **Mutat Res** 1990 Jul;231(1):55–62

A mechanism for synergistic activation of a mammalian gene by GAL4 derivatives. Carey M, et al. **Nature** 1990 May 24;345(6273):361–4

Interference with the assembly of a virus-host transcription complex by peptide competition. Haigh A, et al. **Nature** 1990 Mar 15;344(6263):257–9

DNA cleavage catalysed by the ribozyme from Tetrahymena [published erratum appears in Nature 1990 Apr 19;344(6268):792] Herschlag D, et al. **Nature** 1990 Mar 29; 344(6265):405–9

Binding of a Drosophila POU-domain protein to a sequence element regulating gene expression in specific dopaminergic neurons. Johnson WA, et al. **Nature** 1990 Feb 1;343(6257):467–70

Direct repeats [letter] Koenig RJ, et al. **Nature** 1990 Jun 14; 345(6276):584

How different eukaryotic transcriptional activators can cooperate promiscuously. Lin YS, et al. **Nature** 1990 May 24;345(6273):359–61

Protection against UV-induced pyrimidine dimerization in DNA by triplex formation. Lyamichev VI, et al. **Nature** 1990 Apr 5;344(6266):568–70

Two adjacent MyoD1-binding sites regulate expression of the acetylcholine receptor alpha-subunit gene. Piette J, et al. **Nature** 1990 May 24;345(6273):353–5

Genetic apparatus of Stylonychia sp. Prescott DM, et al. **Nature** 1973 Apr 27;242(5400):576, 597–600

Direct repeats in HSF binding sites [letter] Raibaud O. **Nature** 1990 Mar 15;344(6263):204

A gene from the human sex-determining region encodes a protein with homology to a conserved DNA-binding motif [see comments] Sinclair AH, et al. **Nature** 1990 Jul 19; 346(6281):240–4 Comment in: Nature 1990 Jul 19;346(6281):216–7.

A nuclear DNA attachment element mediates elevated and position-independent gene activity. Stief A, et al. **Nature** 1989 Sep 28;341(6240):343–5

The heptad repeat in the largest subunit of RNA polymerase II binds by intercalating into DNA. Suzuki M. **Nature** 1990 Apr 5;344(6266):562–5

Maternal alcohol consumption and undernutrition in the rat: effects on gangliosides and their catabolizing enzymes in the CNS of the newborn. Prasad VV. **Neurochem Res** 1989 Nov;14(11):1081–8

Electrophysiology of a chick neuronal nicotinic acetylcholine receptor expressed in Xenopus oocytes after cDNA injection. Ballivet M, et al. **Neuron** 1988 Nov;1(9):847–52

Cloning of human GAP-43: growth association and ischemic resurgence. Ng SC, et al. **Neuron** 1988 Apr;1(2):133–9

Four cDNA clones from the Shaker locus of Drosophila induce kinetically distinct A-type potassium currents in Xenopus oocytes. Timpe LC, et al. **Neuron** 1988 Oct; 1(8):659–67

Tetrahydrobiopterin-dependent production of L-dopa in NRK fibroblasts transfected with tyrosine hydroxylase cDNA: future use for intracerebral grafting. Uchida K, et al. **Neurosci Lett** 1990 Feb 16;109(3):282–6

In vitro preferential topoisomerization of bent DNA. Caserta M, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8463–74

Heparin inhibits EcoRI endonuclease cleavage of DNA at certain EcoRI sites. Chen JZ, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3255–60

Nuclear matrix attachment occurs in several regions of the IgH locus. Cockerill PN. **Nucleic Acids Res** 1990 May 11; 18(9):2643–8

Improved detection of helix-turn-helix DNA-binding motifs in protein sequences. Dodd IB, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5019–26

Lysine 188 of the catabolite gene activator protein (CAP) plays no role in specificity at base pair 7 of the DNA half site [published erratum appears in Nucleic Acids Res 1990 May 25;18(10):3133] Ebright RH, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1457–64

Molecular mechanics of the interactions of spermine with DNA: DNA bending as a result of ligand binding. Feuerstein BG, et al. **Nucleic Acids Res** 1990 Mar 11; 18(5):1271–82

Echinomycin binding to the sequence CG(AT)nCG alters the structure of the central AT region. Fox KR, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):1957–63

An inhibitor of DNA polymerases alpha and delta in calf thymus DNA. Goulian M, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4791–6

Sequence dependent modulating effect of camptothecin on the DNA-cleaving activity of the calf thymus type I topoisomerase. Gromova II, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):637–45

Identification of a TFIIIA binding site on the 5' flanking region of the TFIIIA gene. Hanas JS, et al. **Nucleic Acids Res** 1990 May 25;18(10):2923–8

Modelling of the binding specificity in the interactions of cationic porphyrins with DNA. Hui XW, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1109–14

Attachment of DNA to the nucleoskeleton of HeLa cells examined using physiological conditions. Jackson DA, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4385–93

Digestion conditions resulting in altered cut site specificity for HinfI. Kriss J, et al. **Nucleic Acids Res** 1990 Jun 25; 18(12):3665

Localization of an oligodeoxynucleotide complementing 16S ribosomal RNA residues 520–531 on the small subunit of Escherichia coli ribosomes: electron microscopy of ribosome-cDNA-antibody complexes. Lasater LS, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):477–85

Interaction of berenil with the tyrT DNA sequence studied by footprinting and molecular modelling. Implications for the design of sequence-specific DNA recognition agents. Laughton CA, et al. **Nucleic Acids Res** 1990 Aug 11; 18(15):4479–88

Charge dependence of Fe(II)-catalyzed DNA cleavage. Lu M, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3333–7

Lesion selectivity in blockage of lambda exonuclease by DNA damage. Mattes WB. **Nucleic Acids Res** 1990 Jul 11;18(13):3723–30

Distamycin inhibition of topoisomerase I-DNA interaction: a mechanistic analysis. Mortensen UH, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):1983–9

The tertiary structure of the four-way DNA junction affords protection against DNase I cleavage. Murchie AI, et al. **Nucleic Acids Res** 1990 May 11;18(9):2599–606

An improved method for partial restriction digestion of ultraviolet irradiated DNA. Nobile C. **Nucleic Acids Res** 1990 Jul 25;18(14):4288

Protein-DNA interactions upstream from the human A gamma globin gene. O'Neill D, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):1977–82

Specificity of binding to four-way junctions in DNA by bacteriophage T7 endonuclease I. Parsons CA, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4377–84

NMR studies on the binding of antitumor drug nogalamycin to DNA hexamer d(CGTACG). Robinson H, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4851–8

Sequence-specific interaction of Hoechst 33258 with the minor groove of an adenine-tract DNA duplex studied in solution by 1H NMR spectroscopy. Searle MS, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3753–62

A quantitative HpaII-PCR assay to measure methylation of DNA from a small number of cells. Singer-Sam J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):687

Laser-induced crosslinking of histones to DNA in chromatin and core particles: implications in studying histone-DNA interactions. Stefanovsky VYu, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10069–81

SgrAI, a novel class-II restriction endonuclease from Streptomyces griseus recognizing the octanucleotide sequence 5'-CR/CCGGYG-3' [corrected] [published erratum appears in Nucleic Acids Res 1990 Aug 25;18(16):4991]. Tautz N, et al. **Nucleic Acids Res** 1990 May 25;18(10):3087

Target Detection Assay (TDA): a versatile procedure to determine DNA binding sites as demonstrated on SP1 protein. Thiesen HJ, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3203–9

High resolution footprinting of EcoRI and distamycin with Rh(phi)2(bpy)3+, a new photofootprinting reagent. Uchida K, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10259–79

The residual repair capacity of xeroderma pigmentosum complementation group C fibroblasts is highly specific for transcriptionally active DNA. Venema J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):443–8

BmyI, a novel SduI isoschizomer from Bacillus mycoides recognizing 5'-GDGCH/C-3'. Wagner E, et al. **Nucleic Acids Res** 1990 May 25;18(10):3088

Absence of substantial bending in Xenopus laevis transcription factor IIIA-DNA complexes. Zwieb C, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):583–7

Electrostatic interaction in the reaction between porphyrin and DNA. Sugimoto N, et al. **Nucleic Acids Symp Ser** 1989; (21):7–8

Induced circular dichroism in nucleic acid-acridine derivative complexes. Tani S, et al. **Nucleic Acids Symp Ser** 1989;(21):63–4

c-fos mediated stimulation of an AP-1 DNA binding activity in undifferentiated teratocarcinoma cell lines. Caceres J, et al. **Oncogene** 1990 Jan;5(1):59–67

Gene transfer by lipofection in rabbit and human secretory epithelial cells. Lu L, et al. **Pflugers Arch** 1989 Nov; 415(2):198–203

Effect of praziquantel versus hycanthone on deoxyribonucleic acid content of hepatocytes in murine schistosomiasis mansoni. Botros SS. **Pharmacol Res** 1990 Mar-Apr;22(2):219–29

CpG islands in genes showing tissue-specific expression. Edwards YH. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30;326(1235):207–15

A nuclear protein that binds preferentially to methylated DNA in vitro may play a role in the inaccessibility of methylated CpGs in mammalian nuclei. Meehan R, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1235):199–205

A fluorescence study of the binding of Hoechst 33258 and DAPI to halogenated DNAs. Hård T, et al. **Photochem Photobiol** 1990 Jan;51(1):77–86

Uptake and deoxyribonuclease I susceptibility of foreign deoxyribonucleic acid by chicken sperm cells. Cook RF, et al. **Poult Sci** 1990 May;69(5):856–9

Demethylation of the gene expressing a yolk protein precursor in quail. Copeland KF, et al. **Poult Sci** 1989 Dec; 68(12):1678–87

DNA binding properties of the purified Antennapedia homeodomain. Affolter M, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4093–7

DNA binding site of the growth factor-inducible protein Zif268. Christy B, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8737–41

Integration of human immunodeficiency virus type 1 DNA in vitro. Farnet CM, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4164–8

Inhibition of estrogen receptor-DNA binding by the "pure" antiestrogen ICI 164,384 appears to be mediated by impaired receptor dimerization. Fawell SE, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6883–7

Molecular characterization of the GCN4-DNA complex. Gartenberg MR, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6034–8

Acute-phase reaction induces a specific complex between hepatic nuclear proteins and the interleukin 6 response element of the rat alpha 2-macroglobulin gene. Hattori M, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2364–8

DNA flexibility variation may dominate DNase I cleavage. Hogan ME, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9273–7

Reduced DNA adduct formation in replicating liver cells during continuous feeding of a chemical carcinogen. Huitfeldt HS, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(15):5955–8

Mechanism of elongation of primed DNA by DNA polymerase delta, proliferating cell nuclear antigen, and activator 1. Lee SH, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5672–6

Vitamin D-mediated modifications in protein-DNA interactions at two promoter elements of the osteocalcin gene. Markose ER, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1701–5

Wound-inducible nuclear protein binds DNA fragments that regulate a proteinase inhibitor II gene from potato. Palm CJ, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):603–7

Predictions of structural elements for the binding of Hin recombinase with the hix site of DNA. Plaxco KW, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9841–5

Method to identify genomic targets of DNA binding proteins. Sompayrac L, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(9):3274–8

Contacts between steroid hormone receptors and thymines in DNA: an interference method. Truss M, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7180–4

Accelerator mass spectrometry in biomedical dosimetry:

relationship between low-level exposure and covalent binding of heterocyclic amine carcinogens to DNA. Turteltaub KW, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5288–92

Mutations that disrupt DNA binding and dimer formation in the E47 helix–loop–helix protein map to distinct domains. Voronova A, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4722–6

Transferrin–polycation conjugates as carriers for DNA uptake into cells. Wagner E, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3410–4

Identification of a contact between arginine–180 of the catabolite gene activator protein (CAP) and base pair 5 of the DNA site in the CAP–DNA complex. Zhang XP, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4717–21

Combined in vivo DNA binding and tumor dose–response studies to investigate the molecular dosimetry concept. Dashwood RH, et al. **Prog Clin Biol Res** 1990;340D:335–44

Gene transfer by electroporation: a model for gene therapy. Keating A, et al. **Prog Clin Biol Res** 1990;333:491–8

Human DNA adducts due to smoking and other exposures to carcinogens. Phillips DH, et al. **Prog Clin Biol Res** 1990; 340C:283–92 (15 ref.)

Topoisomerase inhibitors suppress release of globin sequences into small soluble DNA in erythroblasts. Strauss PR. **Prog Clin Biol Res** 1990;352:249–56

Inhibition of 3H–thymidine incorporation into the DNA of developing rat brain by amphetamine treatment. Béndek G, et al. **Prog Neuropsychopharmacol** 1979;3(5–6):555–8

Binding of the globular domain of linker histones H5/H1 to the nucleosome: a hypothesis. Crane–Robinson C, et al. **Protein Eng** 1989 Aug;2(8):577–82 (33 ref.)

The metabolic activation and DNA adducts of dinitropyrenes. Beland FA. **Res Rep Health Eff Inst** 1986 Aug;(4):3–30

DNA binding by 1–nitropyrene and dinitropyrenes in vitro and in vivo: effects of nitroreductase induction. Beland FA. **Res Rep Health Eff Inst** 1989 Nov;(31):1–16

Detection of adducts of deoxyribonucleic acid in white blood cells of roofers by 32P–postlabeling. Relationship of adduct levels to measures of exposure to polycyclic aromatic hydrocarbons. Herbert R, et al. **Scand J Work Environ Health** 1990 Apr;16(2):135–43

32P–postlabeling detection of DNA adducts in fish from chemically contaminated waterways. Maccubbin AE, et al. **Sci Total Environ** 1990 May 1;94(1–2):89–104

Overview of studies on liver carcinogenesis in English sole from Puget Sound; evidence for a xenobiotic chemical etiology. II: Biochemical studies. Stein JE, et al. **Sci Total Environ** 1990 May 1;94(1–2):51–69

Cognate DNA binding specificity retained after leucine zipper exchange between GCN4 and C/EBP. Agre P, et al. **Science** 1989 Nov 17;246(4932):922–6

Second cytotoxic pathway of diphtheria toxin suggested by nuclease activity. Chang MP, et al. **Science** 1989 Dec 1; 246(4934):1165–8

Solution structure of the glucocorticoid receptor DNA–binding domain. Härd T, et al. **Science** 1990 Jul 13; 249(4965):157–60

Two distinct transcription factors that bind the immunoglobulin enhancer microE5/kappa 2 motif. Henthorn P, et al. **Science** 1990 Jan 26;247(4941):467–70

Structural motif of the GCN4 DNA binding domain characterized by affinity cleaving. Oakley MG, et al. **Science** 1990 May 18;248(4957):847–50

Design of DNA–binding peptides based on the leucine zipper motif. O'Neil KT, et al. **Science** 1990 Aug 17; 249(4970):774–8

Evidence of changes in protease sensitivity and subunit exchange rate on DNA binding by C/EBP. Shuman JD, et al. **Science** 1990 Aug 17;249(4970):771–4

Sequence–specific DNA binding by a short peptide dimer. Talanian RV, et al. **Science** 1990 Aug 17;249(4970):769–71

Scissors–grip model for DNA recognition by a family of leucine zipper proteins. Vinson CR, et al. **Science** 1989 Nov 17;246(4932):911–6 (22 ref.)

How do you read from the palimpsest of life? [news] [see comments] Waldrop MM. **Science** 1989 Nov 3; 246(4930):578–9 Comment in: Science 1990 Feb 16;247(4944):789.

Influence of cellular sequences on instability of plasmid integration sites in human cells. Murnane JP. **Somat Cell Mol Genet** 1990 May;16(3):195–209

Stability of DNA methylation of X-chromosome genes during aging. Pagani F, et al. **Somat Cell Mol Genet** 1990 Jan;16(1):79–84

Reductive metabolism and DNA binding of misonidazole. Djuric Z. **Toxicol Appl Pharmacol** 1989 Oct;101(1):47–54

Excretion of high concentrations of cimetidine and ranitidine into rat milk and their effects on milk composition and mammary gland nucleic acid content. Dostal LA, et al. **Toxicol Appl Pharmacol** 1990 Mar 1;102(3):430–42

Covalent interactions of 1,2,3–trichloropropane with hepatic macromolecules: studies in the male F–344 rat. Weber GL, et al. **Toxicol Appl Pharmacol** 1990 Jul;104(3):395–402

Lack of covalent binding to DNA of di–n–octyltin dichloride (DOTC) in vivo and in vitro. Sagelsdorff P, et al. **Toxicol Lett** 1990 Feb;50(2–3):179–88

Release of 2–thiobarbituric acid reactive products from glutamate or deoxyribonucleic acid by 1,2,4–benzenetriol or hydroquinone in the presence of copper ions. Rao GS, et al. **Toxicology** 1989 Nov;59(1):59–65

5' region of zeta–globin and GMCSF genes share binding site for nuclear proteins. Howard OM, et al. **Trans Assoc Am Physicians** 1988;101:180–4

Binding of oxamniquine to the DNA of schistosomes. Pica–Mattoccia L, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):373–6

Zinc–finger motifs and DNA binding [letter] Parraga G, et al. **Trends Biochem Sci** 1989 Oct;14(10):398

DNA methylation and chromatin structure: a view from below. Selker EU. **Trends Biochem Sci** 1990 Mar; 15(3):103–7 (31 ref.)

Analysis of allele–specific methylation. Bedford MT, et al. **Trends Genet** 1990 May;6(5):140–1

Dimers, leucine zippers and DNA–binding domains. Busch SJ, et al. **Trends Genet** 1990 Feb;6(2):36–40 (32 ref.)

Methylation state of cellular genes and oncogenes as a marker of malignancy in human carcinomas. Barbieri R, et al. **Tumori** 1989 Aug 31;75(4):321–8

In vivo and in vitro interaction of 1,2–dichlorobenzene with nucleic acids and proteins of mice and rats. Colacci A, et al. **Tumori** 1990 Aug 31;76(4):339–44

The different genotoxicity of p–dichlorobenzene in mouse and rat: measurement of the in vivo and in vitro covalent interaction with nucleic acids. Lattanzi G, et al. **Tumori** 1989 Aug 31;75(4):305–10

Effects of extra– and intracellular calcium concentration on DNA replication, lateral growth, and differentiation of human epidermal cells in culture. Jensen PK, et al. **Virchows Arch [B]** 1990;59(1):17–25

The DNA–binding domain of HPV–16 E2 protein interaction with the viral enhancer: protein–induced DNA bending and role of the nonconserved core sequence in binding site affinity. Bedrosian CL, et al. **Virology** 1990 Feb; 174(2):557–75

[Comparative studies on renaturation kinetics of Alligator sinensis and Alligator mississippiensis and their organization of the genomes] Mo XQ, et al. **I Chuan Hsueh Pao** 1988; 15(6):436–41 (Eng. Abstr.) (Chi)

[On the genetic homeostasis of somatic cells: molecular analysis with mutants in DNA metabolism] Seno T, et al. **Idengaku Zasshi** 1988 Aug;63(4):393–408 (38 ref.) (Jpn)

[Photolysis of total histone and pBr–322 plasmid DNA in the ultraviolet vacuum region of the spectrum] Kiseleva MN, et al. **Biofizika** 1989 Jul–Aug;34(4):536–40 (Eng. Abstr.) (Rus)

[Study of peripheral chromatin granules—anchorosomes] Prusov AN, et al. **Biokhimiia** 1989 Nov;54(11):1838–46 (Eng. Abstr.) (Rus)

[Are the receptors of 1,25–dihydroxyvitamin D3 vitamin K dependent?] Sergeev IN, et al. **Biokhimiia** 1989 Oct; 54(10):1623–9 (Eng. Abstr.) (Rus)

[Cleavage by restriction endonucleases MvaI and EcoRII of substrates modified in amino groups of heterocyclic bases] Kubareva EA, et al. **Bioorg Khim** 1990 Apr; 16(4):501–6 (Eng. Abstr.) (Rus)

[Specific properties of DNA from fractions of isolated mouse synaptonemal complexes] Dadashev SIa, et al. **Dokl Akad Nauk SSSR** 1989;308(2):490–3 (Rus)

[Noradrenaline regulates the degree of methylation of DNA in the brain] Khanbabian MV, et al. **Dokl Akad Nauk SSSR** 1989 Jul–Aug;307(1):253–6 (Rus)

[Thermodynamic and spectral study of DNA–prospidin complex] Fedorov VF, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1440–6 (Eng. Abstr.) (Rus)

[Synthesis of nonlinear DNA–binding peptide with binding specificity determinants close to those of 434 Cro–repressor] Grokhovskiĭ SL, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1558–80 (Eng. Abstr.) (Rus)

[Analysis of distribution of ligands adsorbed on DNA fragments] Iovanovich B, et al. **Mol Biol (Mosk)** 1990 Mar–Apr;24(2):478–86 (Eng. Abstr.) (Rus)

[A study of the molecular mechanism of DNA interaction with divalent metal ions] Kas'ianenko NA, et al. **Mol Biol (Mosk)** 1989 Jul–Aug;23(4):975–82 (Eng. Abstr.) (Rus)

[Synthetic DNA–bindings ligands containing reaction centers specific for AT– and GC–pairs in DNA] Leinsoo TA, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1616–37 (Eng. Abstr.) (Rus)

[The effect of Z–conformation on enzymatic activity of restriction endonucleases] Lesnik EA, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1638–44 (Eng. Abstr.) (Rus)

[Possible origin and evolution of enzymatic methylation of eukaryotic DNA. Methylation of cytosine residues in 3 palindromic families: RYRY, YYRR, and YYRYRR] Mazin AL, et al. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):23–43 (Eng. Abstr.) (Rus)

[Interaction of EcoRII restriction and modification enzymes with synthetic DNA fragments. Determination of the size of EcoRII binding site] Vinogradova MV, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):847–50 (Eng. Abstr.) (Rus)

[Interaction with DNA and aggregation properties of C–terminal fragment of RecA protein] Volodin AA. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):179–88 (Eng. Abstr.) (Rus)

[The biophysical chemistry of complement–fixing DNA–anti–DNA immune complexes] Taylor RP. **Ter Arkh** 1990;62(5):27–32 (12 ref.) (Rus)

[The determination of the nature of the interaction of neutral Mn2+–dependent DNAse with DNA by immunoelectron microscopy] Vinter VG, et al. **Tsitologiia** 1990;32(1):94–6 (Eng. Abstr.) (Rus)

[The role of plasma high density lipoproteins as modulators of specific hormonal effect of hydrocortisone] Panin LE, et al. **Vopr Med Khim** 1990 May–Jun;36(3):60–2 (Eng. Abstr.) (Rus)

[The role of divalent cations in DNA endonucleolysis catalyzed by restrictases] Sokolov NN, et al. **Vopr Med Khim** 1989 Nov–Dec;35(6):66–9 (Eng. Abstr.) (Rus)

[Nonenzymatic glycosylation of serum albumin and thymic DNA by food monosugars and their natural metabolites that form in the body] Gapparov MM, et al. **Vopr Pitan** 1990 Jan–Feb;(1):36–40 (Eng. Abstr.) (Rus)

PHARMACOLOGY

Effects of DNA and synthetic oligodeoxyribonucleotides on the binding properties of a cGMP–binding protein from Dictyostelium discoideum. Parissenti AM, et al. **Biochim Biophys Acta** 1990 Sep 3;1040(2):294–300

Efficient gene transfer by sequential treatment of mammalian cells with DEAE–dextran and deoxyribonucleic acid. Holter W, et al. **Exp Cell Res** 1989 Oct;184(2):546–51

The human double–stranded DNA–activated protein kinase phosphorylates the 90–kDa heat–shock protein, hsp90 alpha at two NH2–terminal threonine residues. Lees–Miller SP, et al. **J Biol Chem** 1989 Oct 15;264(29):17275–80

Injection of the cAMP–responsive element into the nucleus of Aplysia sensory neurons blocks long–term facilitation. Dash PK, et al. **Nature** 1990 Jun 21;345(6277):718–21

Inhibition of human immunodeficiency virus in early infected and chronically infected cells by antisense oligodeoxynucleotides and their phosphorothioate analogues. Agrawal S, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7790–4

Modulation of the stability of a gene–regulatory protein dimer by DNA and cAMP. Brown AM, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7387–91

[The mechanism of the proaggregant action on the thrombocytes of RNA and DNA molecules] Zakharian RA, et al. **Biol Nauki** 1990;(2):31–5 (Eng. Abstr.) (Rus)

PHYSIOLOGY

The possible role of Z DNA in chromosomal translocations. Arnheim N. **Cancer Cells** 1990 Apr;2(4):121–2

Does membrane–associated DNA play a role in the establishment of hormonal imprinting in the unicellular Tetrahymena? Csaba G, et al. **Cytobios** 1989; 60(242–243):171–6

Base pair opening pathways in B–DNA. Ramstein J, et al. **J Biomol Struct Dyn** 1990 Feb;7(4):915–33

Reconstitution of a functional IL–2 receptor by the beta–chain cDNA. A newly acquired receptor transduces negative signal. Tsudo M, et al. **J Immunol** 1989 Dec 15; 143(12):4039–43

Isolation and identification of aging–related cDNAs in the mouse. Friedman V, et al. **Mech Ageing Dev** 1990 Mar 1;52(1):27–43

Transcription antitermination in an Escherichia coli haemolysin operon is directed progressively by cis–acting DNA sequences upstream of the promoter region. Koronakis V, et al. **Mol Microbiol** 1989 Oct;3(10):1397–404

DNAging. Genetic instability and aging. **Mutat Res** 1990 Mar;237(2):59–115

Effects of macromolecules recovered from uterine luminal fluid on the metabolism of [U–14C]glucose by mouse morulae and early blastocysts in vitro. Khurana NK, et al. **Reprod Fertil Dev** 1989;1(2):89–98

RADIATION EFFECTS

Quantitation of ultraviolet radiation–induced cyclobutyl pyrimidine dimers in DNA by video and photographic densitometry. Freeman SE, et al. **Anal Biochem** 1990 May 1;186(2):222–8

Comparative effect of microwaves and boiling on the denaturation of DNA. Stroop WG, et al. **Anal Biochem** 1989 Nov 1;182(2):222–5

Detection and quantitation of 8–hydroxydeoxyguanosine 5'–monophosphate in X–irradiated calf–thymus DNA by fluorescence postlabeling. Sharma M, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):419–24

Kinetics and mechanism of DNA repair. Evaluation of caged compounds for use in studies of u.v.–induced DNA repair. Meldrum RA, et al. **Biochem J** 1990 Mar 15;266(3):891–5

A polarized photobleaching study of DNA reorientation in agarose gels. Scalettar BA, et al. **Biochemistry** 1990 May 22;29(20):4790–8

Diamide induced shift in protein and glutathione thiol: disulfide status delays DNA rejoining after X–irradiation of human cancer cells. Baker MA, et al. **Biochim Biophys Acta** 1990 Jan 19;1037(1):39–47

Inherited sensitivity to X–rays in man. Thacker J. **Bioessays** 1989 Aug–Sep;11(2–3):58–62 (47 ref.)

Plasma desorption mass spectrometric study of UV–induced lesions within DNA model compounds. Viari A, et al. **Biomed Environ Mass Spectrom** 1989 Aug;18(8):547–52

Genetic and biochemical characterization of the CHO–UV–1 mutant defective in postreplication recovery of DNA. Hentosh P, et al. **Cancer Res** 1990 Apr 15;50(8):2356–62

Biochemical characteristics of endonuclease activity within the nucleotidyl DNA excision repair pathway of permeable

human fibroblasts. Kaufmann WK, et al. **Carcinogenesis** 1990 Jan;11(1):15–9

Inducible cellular responses to ultraviolet light irradiation and other mediators of DNA damage in mammalian cells. Ronai ZA, et al. **Cell Biol Toxicol** 1990 Jan;6(1):105–26 (100 ref.)

Photochemical covalent binding of urocanic acid to polynucleic acids. Farrow SJ, et al. **Chem Biol Interact** 1990;75(1):105–18

The in vitro interaction with DNA of several hypoxic radiosensitizers. Santos Peinado L, et al. **Chem Biol Interact** 1989;71(2–3):245–53

Fluorescence postlabeling assay of cis–thymidine glycol monophosphate in X–irradiated calf–thymus DNA. Sharma M, et al. **Chem Biol Interact** 1990;74(1–2):107–17

Melanin photosensitizes ultraviolet light (UVC) DNA damage in pigmented cells. Huselton CA, et al. **Environ Mol Mutagen** 1990;16(1):37–43

Modeling the biological effectiveness of high–LET radiation. Miller JH, et al. **Health Phys** 1989;57 Suppl 1:363–7

Analyzing the role of biochemical processes in determining response to ionizing radiations. Nelson JM, et al. **Health Phys** 1989;57 Suppl 1:369–76

Heavy–ion–induced free radical formation in solid DNA–constituents: quantitative and structural aspects. Hüttermann J, et al. **Int J Rad Appl Instrum [A]** 1989; 40(10–12):915–21

Abstracts of the joint meeting of the Association for Radiation Research and the DNA Repair Network. St Andrews, UK, 3–5 January 1990. **Int J Radiat Biol** 1990 Jun;57(6):1247–73

DNA base and strand damage in X–irradiated monkey CV–1 cells: influence of pretreatment using small doses of radiation. Bases R, et al. **Int J Radiat Biol** 1990 Jul; 58(1):35–54

In CHEF electrophoresis a linear induction of dsb corresponds to a nonlinear fraction of extracted DNA with dose. Blöcher D. **Int J Radiat Biol** 1990 Jan;57(1):7–12

CHEF electrophoresis, a sensitive technique for the determination of DNA double–strand breaks. Blöcher D, et al. **Int J Radiat Biol** 1989 Oct;56(4):437–48

DNA double–strand break analysis by CHEF (clamped homogeneous electrical field) electrophoresis. Blöcher D, et al. **Int J Radiat Biol** 1990 Jul;58(1):23–34

Induction and repair of DNA strand breaks in X–irradiated proliferating and quiescent CHO cells. Dikomey E. **Int J Radiat Biol** 1990 Jun;57(6):1169–82

Yields of radiation–induced base products in DNA: effects of DNA conformation and gassing conditions. Fuciarelli AF, et al. **Int J Radiat Biol** 1990 Sep;58(3):397–415

Mutations induced by 60Co gamma–irradiation in double–stranded M13 bacteriophage DNA in nitrous–oxide saturated solutions are characterized by a high specificity. Hoebee B, et al. **Int J Radiat Biol** 1989 Oct;56(4):401–11

Radiosensitivity throughout the cell cycle and repair of potentially lethal damage and DNA double–strand breaks in an X–ray–sensitive CHO mutant. Iliakis GE, et al. **Int J Radiat Biol** 1990 Jun;57(6):1195–211

1st L. H. Gray Workshop. Measurement of radiation–induced damage. McMillan TJ, et al. **Int J Radiat Biol** 1990 Sep; 58(3):391–6

The relationship of DNA double–strand break induction to radiosensitivity in human tumour cell lines. McMillan TJ, et al. **Int J Radiat Biol** 1990 Sep;58(3):427–38

Comparative effect of the thiols dithiothreitol, cysteamine and WR–151326 on survival and on the induction of DNA damage in cultured Chinese hamster ovary cells exposed to gamma–radiation. Murray D, et al. **Int J Radiat Biol** 1990 Jul;58(1):71–91

The irradiation of V79 mammalian cells by protons with energies below 2 MeV. Part II. Measurement of oxygen enhancement ratios and DNA damage. Prise KM, et al. **Int J Radiat Biol** 1990 Aug;58(2):261–77

Non–linear dose–effect curve for DNA double–strand breaks by low LET radiation: the effect of eluting buffer composition on the measurement of breaks by the filter elution technique. Prise KM, et al. **Int J Radiat Biol** 1989 Dec;56(6):943–50

The formation of strand breaks in DNA after high–LET irradiation: a comparison of data from in vitro and cellular systems. Roots R, et al. **Int J Radiat Biol** 1990 Jul; 58(1):55–69 (27 ref.)

Protein–DNA crosslinks induced by primary and secondary radicals. Schuessler H, et al. **Int J Radiat Biol** 1989 Oct; 56(4):423–35

DNA radiolysis by fast neutrons. Spotheim–Maurizot M, et al. **Int J Radiat Biol** 1990 Feb;57(2):301–13

ESR spectra for protonated thymine and cytidine radical anions: their relevance to irradiated DNA. Symons MC. **Int J Radiat Biol** 1990 Jul;58(1):93–6

The yield of DNA double–strand breaks produced intracellularly by ionizing radiation: a review. Ward JF. **Int J Radiat Biol** 1990 Jun;57(6):1141–50 (42 ref.)

Enhancement of radiation damage in cellular DNA following unifilar substitution with iododeoxyuridine. Fornace AJ Jr, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr;18(4):873–8

Preferential DNA repair of (6–4) photoproducts in the dihydrofolate reductase gene of Chinese hamster ovary cells. Thomas DC, et al. **J Biol Chem** 1989 Oct 25; 264(30):18005–10

Theory of the anomalous resonant absorption of DNA at microwave frequencies. Van Zandt LL, et al. **J Biomol Struct Dyn** 1986 Apr;3(5):1045–53

The crosslinking of nuclear protein to DNA using ionizing radiation. Cress AE, et al. **J Cancer Res Clin Oncol** 1990; 116(4):324–30

19th annual UCLA symposium: Ionizing radiation damage to DNA: molecular aspects. Abstracts. **J Cell Biochem Suppl** 1990;14A:21–84

Extensive photodimerization of non–adjacent pyrimidines. Nguyen HT, et al. **J Mol Biol** 1989 Dec 20;210(4):869–74

DNA base sequence changes induced by ultraviolet light mutagenesis of a gene on a chromosome in Chinese hamster ovary cells. Romac S, et al. **J Mol Biol** 1989 Sep 20; 209(2):195–204

Suppression of immunocompetence and DNA repair capacity by exposure in commercial tanning salons. Larcom LL, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1361

A simple kinetic model for the repair of radiation–induced DNA double–strand breaks [letter] Hsu JP, et al. **J Theor Biol** 1989 Feb 8;136(3):357–9

Cytotoxicity and mutagenicity of excimer laser radiation. Kochevar IE. **Lasers Surg Med** 1989;9(5):440–5

Organization of DNA in cerebellar neurons of ageing unirradiated and irradiated rats. Jaberaboansari A, et al. **Mech Ageing Dev** 1989 Dec;50(3):257–76

A constitutive damage–specific DNA–binding protein is synthesized at higher levels in UV–irradiated primate cells. Hirschfeld S, et al. **Mol Cell Biol** 1990 May;10(5):2041–8

Biochemical and genetic analysis of the Chinese hamster mutants irs1 and irs2 and their comparison to cultured ataxia telangiectasia cells. Jones NJ, et al. **Mutagenesis** 1990 Jan;5(1):15–23

Relationship between pyrimidine dimers, 6–4 photoproducts, repair synthesis and cell survival: studies using cells from patients with trichothiodystrophy. Broughton BC, et al. **Mutat Res** 1990 Jan;235(1):33–40

Evidence to support the existence of efficient DNA double–strand break rejoining in a radiosensitive mutant of V79–4 following irradiation with 250 kVp X–rays or neutrons. Fox JC. **Mutat Res** 1990 Mar;235(2):41–7

Wavelength dependence for UV–induced pyrimidine dimer formation in DNA of human peripheral blood lymphocytes. Freeman SE, et al. **Mutat Res** 1990 May;235(3):181–6

The effect of microwave radiation on the cell genome. Garaj–Vrhovac V, et al. **Mutat Res** 1990 Feb;243(2):87–93

Effect of UV light on DNA replication and chain elongation in Chinese hamster UV61 cells. Griffiths TD, et al. **Mutat Res** 1990 Jul;236(1):51–8

5–Formyldeoxyuridine: a new type of DNA damage induced by ionizing radiation and its mutagenicity to salmonella strain TA102. Kasai H, et al. **Mutat Res** 1990 Apr; 243(4):249–53

DNA sequence determination of gamma–radiation–induced mutations of the hamster aprt locus. Miles C, et al. **Mutat Res** 1989 Oct;227(2):97–102

Is the induction of pyrimidine cyclobutane dimers relevant for the high cytotoxic effect of 7–methylpyrido[3,4–c]psoralen plus UV–A? Nocentini S. **Mutat Res** 1990 May;235(3):203–7

Molecular changes in UV–induced and gamma–ray–induced mutations in human lymphoblastoid cells. Tachibana A, et al. **Mutat Res** 1990 Jun;230(2):159–66

The induction and repair of DNA damage detected by the DNA precipitation assay in Chinese hamster ovary cells treated with acridine orange + visible light. Uggla AH, et al. **Mutat Res** 1990 Jul;236(1):119–27

Excision of cytosine hydrates from Z–DNA. Duker NJ, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2007–10

Rapid repair kinetics of pyrimidine(6–4)pyrimidone photoproducts in human cells are due to excision rather than conformational change. Mitchell DL, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):963–71

Mammalian mitochondrial endonuclease activities specific for ultraviolet–irradiated DNA. Tomkinson AE, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):929–35

UV induced (6–4) photoproducts are distributed differently than cyclobutane dimers in nucleosomes. Gale JM, et al. **Photochem Photobiol** 1990 Apr;51(4):411–7

Inhibition of transient gene expression in Chinese hamster ovary cells by triplet–sensitized UV–B irradiation of transfected DNA. Mitchell DL, et al. **Photochem Photobiol** 1989 Nov;50(5):639–46

Effects of ultraviolet light on thymidine incorporation and DNA chain elongation in photoreactivable insect cells. Styer SC, et al. **Photochem Photobiol** 1989 Oct;50(4):557–62

Induction of DNA double–strand breaks by 157Gd neutron capture. Martin RF, et al. **Pigment Cell Res** 1989 Jul–Aug; 2(4):330–2 (14 ref.)

Thymine dimer formation as a probe of the path of DNA in and between nucleosomes in intact chromatin. Pehrson JR. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9149–53

The genetic defect in Cockayne syndrome is associated with a defect in repair of UV–induced DNA damage in transcriptionally active DNA. Venema J, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4707–11

Measurement of radiation–induced DNA double–strand breaks by pulsed–field gel electrophoresis. Ager DD, et al. **Radiat Res** 1990 May;122(2):181–7

Dose response in neutral filter elution. Blöcher D. **Radiat Res** 1990 Aug;123(2):176–81

Formation and repair of DNA–protein crosslinks in newly replicated DNA. Chiu SM, et al. **Radiat Res** 1989 Dec; 120(3):545–51

Production of DNA strand breaks by direct effects of heavy charged particles. Holley WR, et al. **Radiat Res** 1990 Feb; 121(2):161–8

On the measurement of DNA double–strand breaks by neutral elution [see comments] Hutchinson F. **Radiat Res** 1989 Oct;120(1):182–6 (36 ref.) Comment in: Radiat Res 1990 Apr;122(1):104–5.

Radiation–induced energy migration within solid DNA: the role of misonidazole as an electron trap. al–Kazwini AT, et al. **Radiat Res** 1990 Feb;121(2):149–53

Radiosensitization of Chinese hamster V79 cells by bromodeoxyuridine substitution of thymidine: enhancement of radiation–induced toxicity and DNA strand break production by monofilar and bifilar substitution. Ling LL, et al. **Radiat Res** 1990 Jan;121(1):76–83

Radioprotection of cultured mammalian cells by the aminothiols WR–1065 and WR–255591: correlation between protection against DNA double–strand breaks and cell killing after gamma radiation. Murray D, et al. **Radiat Res** 1989 Oct;120(1):154–63

On the measurement of DNA double–strand breaks by neutral elution [letter; comment] Peak JG, et al. **Radiat Res** 1990 Apr;122(1):104–5 Comment on: Radiat Res 1989 Oct;120(1):182–6.

Comparison of recovery from potentially lethal damage after exposure to hyperthermia and radiation. Raaphorst GP, et al. **Radiat Res** 1990 Jan;121(1):107–10

X–ray–related potentially lethal damage expressed by chromosome condensation and the influence of caffeine. Sasaki H, et al. **Radiat Res** 1989 Oct;120(1):72–82

Prediction of the radiation sensitivity of human squamous cell carcinoma cells using DNA filter elution. Schwartz JL, et al. **Radiat Res** 1990 Jul;123(1):1–6

Asymmetric field inversion gel electrophoresis: a new method for detecting DNA double–strand breaks in mammalian cells. Stamato TD, et al. **Radiat Res** 1990 Feb; 121(2):196–205

A kinetic analysis of the repair of radiation–induced DNA double–strand breaks. Tseng S, et al. **Radiat Res** 1990 Jun; 122(3):333–6

Efficient mutation induction by 125I and 131I decays in DNA of human cells. Whaley JM, et al. **Radiat Res** 1990 Jul; 123(1):68–74

RNA and DNA changes in the bone marrow and blood of rats after neutron and continuous gamma irradiation. Mišúrová E, et al. **Radiobiol Radiother (Berl)** 1989; 30(5):423–9

UVA–induced genetic effects of thioridazine, mesoridazine and sulforidazine: an in vitro study. Schoonderwoerd SA, et al. **Z Naturforsch [C]** 1990 Jun;45(6):638–44

[The effect of small radiation doses: desoxyribonucleic acid (DNA) synthesis and DNA repair by the thymus, spleen and bone marrow cells of rats following fractionated whole–body X–ray irradiation] Tempel K, et al. **Strahlenther Onkol** 1989 Sep;165(9):672–9 (Eng. Abstr.) (Ger)

[Formation of free radicals and DNA breaks after pulsed laser irradiation of DNA complexes with intercalating dyes] Zhizhina GP, et al. **Biofizika** 1990 Jan–Feb; 35(1):47–52 (Eng. Abstr.) (Rus)

[Structural changes in the DNA of the blood nucleotides and the development of late sequelae in irradiated rats] Ivanov SD, et al. **Biull Eksp Biol Med** 1990 Mar; 109(3):296–9 (Eng. Abstr.) (Rus)

[Changes in DNA and surface properties of peripheral blood leukocytes in monkeys after total gamma irradiation] Ivanov SD, et al. **Biull Eksp Biol Med** 1989 Aug; 108(8):158–9 (Eng. Abstr.) (Rus)

[UV–induced formation of DNA–protein cross–links in chromatin in the presence of chemical agents] Miul' EM, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Sep–Oct;(5):766–9 (Eng. Abstr.) (Rus)

[Damage to the structure of DNA and to the metabolism of nucleic acids in the thymus in relation to the dose of tritium oxide] Shorokhova VB, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):21–3 (Eng. Abstr.) (Rus)

[The role of the repair of double–stranded DNA breaks in the radioresistance of yeast cells] Glazunov AV. **Radiobiologiia** 1990 Jan–Feb;30(1):3–15 (47 ref.) (Eng. Abstr.) (Rus)

[A study of DNA repair in the thymocytes of irradiated rats using a spectrofluorometric method] Rusinova GG. **Radiobiologiia** 1990 May–Jun;30(3):405–7 (Eng. Abstr.) (Rus)

[Gamma–induced long–term changes in the supramolecular DNA complex of rat organs] Strazhevskaia NB, et al. **Radiobiologiia** 1989 Sep–Oct;29(5):579–84 (Rus)

[The action of ionizing radiation on DNA replication in the cells of a healthy human subject and of a patient with Down's syndrome] Barenfel'd LS, et al. **Tsitologiia** 1989 Nov;31(11):1377–84 (Eng. Abstr.) (Rus)

ULTRASTRUCTURE

Polymorphism in porcine somatotropin cDNA sequences. O'Mahony DJ, et al. **Anim Genet** 1989;20(3):313–6

Double–stranded DNA binding protein HU. Wilson K, et al. **Basic Life Sci** 1989;51:133–40

Linear contour length dependence of electrical polarizability of nucleosomal DNA fragments: implications for the flexibility of DNA. Hacques MF, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1140–5

Imaging of kinked configurations of DNA molecules undergoing orthogonal field alternating gel electrophoresis by fluorescence microscopy. Gurrieri S, et al. **Biochemistry** 1990 Apr 3;29(13):3396–401
Drug binding by branched DNA: selective interaction of the dye stains–all with an immobile junction. Lu M, et al. **Biochemistry** 1990 Apr 3;29(13):3407–12
Scanning tunneling microscopy of DNA. Lilley DM. **Bioessays** 1990 Mar;12(3):131–2 (8 ref.)
Identification of a sperm nuclear annulus: a sperm DNA anchor. Ward WS, et al. **Biol Reprod** 1989 Aug; 41(2):361–70
Real–time imaging of single DNA molecules with fluorescence microscopy. Houseal TW, et al. **Biophys J** 1989 Sep;56(3):507–16
Correlation between the effects of polyamine analogues on DNA conformation and cell growth. Basu HS, et al. **Cancer Res** 1989 Oct 15;49(20):5591–7
Monovalent cation–induced structure of telomeric DNA: the G–quartet model. Williamson JR, et al. **Cell** 1989 Dec 1; 59(5):871–80
DNA denaturation for ultrastructural banding and the mechanism underlying the fluorochrome–photolysis–Giemsa technique studied with anti–5–bromodeoxyuridine antibodies. Drouin R, et al. **Chromosoma** 1989 Sep;98(3):174–80
Centromere organization in meiotic chromosomes of Parascaris univalens. Goday C, et al. **Chromosoma** 1989 Sep;98(3):160–6
Electron microscopy of liquid crystalline DNA: direct evidence for cholesteric–like organization of DNA in dinoflagellate chromosomes. Rill RL, et al. **Chromosoma** 1989 Oct;98(4):280–6
DNA loop domains in mammalian spermatozoa. Ward WS, et al. **Chromosoma** 1989 Sep;98(3):153–9
Genetic recombination: four–way DNA junctions and their resolution. Lilley DM. **Curr Opin Cell Biol** 1990 Jun; 2(3):464–7 (21 ref.)
Morphometric analysis of human chromosome satellites and NOR asymmetries by transmission electron microscopy. Malheiro I, et al. **Cytobios** 1990;61(244):31–40
Periodicity of DNA folding in higher order chromatin structures. Filipski J, et al. **EMBO J** 1990 Apr;9(4):1319–27
Immunochemical detection of Z–DNA in rat pachytene spermatocytes. Satyanarayana K, et al. **Exp Cell Res** 1989 Dec;185(2):319–26
Parallel DNA: generation of a duplex between two Drosophila sequences in vitro. Tchurikov NA, et al. **FEBS Lett** 1989 Nov 6;257(2):415–8
Mapping Z–DNA tracts in plasmid DNA using electron microscopy and gold–labeled antibodies. Inman RB, et al. **Gene** 1989 Dec 14;84(2):221–6
Studies on scaffold attachment sites and their relation to genome function. Gasser SM, et al. **Int Rev Cytol** 1989; 119:57–96 (177 ref.)
Analysis of DNA inverted repeat sequences for their ability to fold in solution. Xodo LE, et al. **Ital J Biochem** 1989 Nov–Dec;38(6):395A–400A
Intrinsically bent DNA. Crothers DM, et al. **J Biol Chem** 1990 May 5;265(13):7093–6 (61 ref.)
Extensive interference of DNA packaging processes affected by chemotherapeutic drugs. Reich Z, et al. **J Biol Chem** 1990 Sep 15;265(26):16004–6
A–DNA accommodates adducts derived from diol epoxides of polycyclic aromatic hydrocarbons bound in a "side–stacking" mode. Andersen RW, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):383–404
Energetics of left and right handed models of DNA. Bhattacharyya D, et al. **J Biomol Struct Dyn** 1987 Jun; 4(6):1027–40
Z form of poly d(A–T).poly d(A–T) in solution studied by CD and UV spectroscopies. Bourtayre P, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):97–104
Electronmicroscopy and circular dichroism of the dynamics of the formation and dissolution of supramolecular forms of Z–DNA. Castleman H, et al. **J Biomol Struct Dyn** 1984 Oct;2(2):271–83
Structure and stability of Z* DNA. Chaires JB, et al. **J Biomol Struct Dyn** 1988 Jun;5(6):1187–207
Structure and conformation of the duplex consensus 5'–splice site d[(CpApGpGpTpApApGpT).(ApCpTpTpApCpCpTpG)] deduced from high field 1H–NMR of the non–exchangeable and imino protons. Debart F, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):47–65
DNA bending induced by the catabolite activator protein allows ring formation of a 144 bp DNA. Dripps D, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):1–13
Two–dimensional 1H NMR study of d(br5C–G)3 in the Z–form. Self association and flexibility of the left–handed double helix. Genest D, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):67–78
Computer analysis of R–looped DNA from electron micrographs. Golovanov EuI, et al. **J Biomol Struct Dyn** 1986 Jun;3(6):1203–9
On the compact form of linear duplex DNA: globular states of the uniform elastic (persistent) macromolecule. Grosberg AYu, et al. **J Biomol Struct Dyn** 1986 Apr;3(5):859–72
The crystal structure of d(CCCCGGGG): a new A–form variant with an extended backbone conformation. Haran TE, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):199–217
On the use of chiral compounds for probing the DNA handedness: Z to B conversion in poly(dGm5dC) upon binding of Fe(phen)3(2+) and Ru(phen)3(2+). Härd T, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):89–96
A kinked model for the solution structure of DNA tridecamers with inserted adenosines: energy minimization and molecular dynamics. Hirshberg M, et al. **J Biomol Struct Dyn** 1988 Apr;5(5):965–79
Structural forms and transitions of poly(dG–dC) with Cd(II), Ag(I) and NaNO3. Keller PB, et al. **J Biomol Struct Dyn** 1988 Jun;5(6):1221–9
The ionic strength dependence of the cooperativity factor for DNA melting. Kozyavkin SA, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):119–26
Sequence, packing and nanometer scale structure in STM images of nucleic acids under water. Lindsay SM, et al. **J Biomol Struct Dyn** 1989 Oct;7(2):289–99
STM and AFM images of nucleosome DNA under water. Lindsay SM, et al. **J Biomol Struct Dyn** 1989 Oct; 7(2):279–87
Structure of (dG)n.(dC)n under superhelical stress and acid pH. Lyamichev VI, et al. **J Biomol Struct Dyn** 1987 Oct; 5(2):275–82
Studies of DNA organization in hydrated spermidine–condensed DNA toruses and spermidine–DNA fibres. Marx KA, et al. **J Biomol Struct Dyn** 1984 Mar; 1(5):1109–32
The energetics of the B–Z transition in DNA. Mirkin SM, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):79–88
Conformational and model–building studies of the hairpin form of the mismatched DNA octamer d(m5C–G–m5C–G–T–G–m5C–G). Orbons LP, et al. **J Biomol Struct Dyn** 1987 Jun;4(6):965–87
An NMR study of the polymorphous behavior of the mismatched DNA octamer d(m5C–G–m5C–G–T–G–m5C–G) in solution. The B, Z, and hairpin forms. Orbons LP, et al. **J Biomol Struct Dyn** 1987 Jun;4(6):939–63
The condensation of DNA by chromium (III) ions. Osterberg R, et al. **J Biomol Struct Dyn** 1984 Oct;2(2):285–90
B–Z junctions in supercoiled pRW751 DNA contain unpaired bases or non–Watson–Crick base pairs. Paleček E, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):297–306
DNA models for A, B, C and D conformations related to fiber X–ray, infrared and NMR measurements. Premilat S, et al. **J Biomol Struct Dyn** 1986 Apr;3(5):1033–43
Physical models for exploring DNA topology. Seeman NC. **J Biomol Struct Dyn** 1988 Apr;5(5):997–1004
Probes for double helical DNA sequence information: molecular mechanics study of a proposed model. Shea RG, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):313–26
Nucleic acid model building: the multiple backbone solutions associated with a given base morphology. Srinivasan AR, et al. **J Biomol Struct Dyn** 1987 Jun;4(6):895–938
Theoretical account of the 'spine of hydration' in the minor groove of duplex d(CGCGAATTCGCG). Subramanian PS, et al. **J Biomol Struct Dyn** 1990 Apr;7(5):1161–5
The crystal structure of d(GTACGTAC) at 2.25 A resolution: are the A–DNA's always unwound approximately 10 degrees at the C–G steps? Takusagawa F. **J Biomol Struct Dyn** 1990 Feb;7(4):795–809
Flexibility of A.T pairs in left–handed DNA helices. Vlach J, et al. **J Biomol Struct Dyn** 1990 Apr;7(5):1083–93
Unusual protonated structure in the homopurine.homopyrimidine tract of supercoiled and linearized plasmids recognized by chemical probes. Vojtilková M, et al. **J Biomol Struct Dyn** 1987 Oct; 5(2):283–96
B–Z cooperativity and kinetics of poly(dG–m5dC) are controlled by an unfavorable B–Z interface energy. Walker GT, et al. **J Biomol Struct Dyn** 1988 Jun;5(6):1209–19
Sequence dependent conformations of oligomeric DNA's in aqueous solutions and in crystals. Wang Y, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):249–74
Location of B– and Z–DNA in the chromosomes of a primitive eukaryote dinoflagellate. Soyer–Gobillard MO, et al. **J Cell Biol** 1990 Aug;111(2):293–304
Structure of transcriptionally active chromatin: radiological evidence for requirement of torsionally constrained DNA. Rodi CP, et al. **J Cell Physiol** 1989 Nov;141(2):346–52
Replication of purified DNA in Xenopus egg extract is dependent on nuclear assembly. Blow JJ, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):383–91
Ultrathin (1 nm) vertically shadowed platinum–carbon replicas for imaging individual molecules in freeze–etched biological DNA and material science metal and plastic specimens. Ruben GC. **J Electron Microsc Tech** 1989 Dec; 13(4):335–54
Probing DNA structure and function with a multi–wavelength fluorescence confocal laser microscope. Arndt–Jovin DJ, et al. **J Microsc** 1990 Jan;157 (Pt 1):61–72
Single base mismatches in DNA. Long– and short–range structure probed by analysis of axis trajectory and local chemical reactivity. Bhattacharyya A, et al. **J Mol Biol** 1989 Oct 20;209(4):583–97
Crystallographic study of one turn of G/C–rich B–DNA. Heinemann U, et al. **J Mol Biol** 1989 Nov 20;210(2):369–81
DNA B to D transition can be explained in terms of hydration economy of the minor groove atoms. Lipanov AA, et al. **J Mol Biol** 1989 Nov 20;210(2):399–409
Four–strand structure, kinks and cruciforms in DNA. McGavin S. **J Theor Biol** 1989 May 9;138(1):117–28
Automated electrokinetic analysis; description and application in virology and cell biology. Sloyer JL Jr, et al. **J Virol Methods** 1990 May;28(2):207–16
Characterization of a myosin–like antigen from Onchocerca volvulus. Erondu NE, et al. **Mol Biochem Parasitol** 1990 May;40(2):213–24
Characterization of Holliday structures in FLP protein–promoted site–specific recombination. Meyer–Leon L, et al. **Mol Cell Biol** 1990 Jan;10(1):235–42
Chromatin arrangement in mouse sperm nuclei: an ultrastructural cytochemical study. Biggiogera M. **Mol Reprod Dev** 1989;1(2):91–7
Helical period of Z–DNA [letter] Arscott PG, et al. **Nature** 1990 Aug 23;346(6286):706
Atomic–scale imaging of DNA using scanning tunnelling microscopy. Driscoll RJ, et al. **Nature** 1990 Jul 19; 346(6281):294–6
DNA structure. The turn of the quadruplex? [news] Frank–Kamenetskii M. **Nature** 1989 Dec 14;342(6251):737
Telomeric DNA dimerizes by formation of guanine tetrads between hairpin loops. Sundquist WI, et al. **Nature** 1989 Dec 14;342(6251):825–9
Sequence–directed curvature of repetitive AluI DNA in constitutive heterochromatin of Artemia franciscana. Benfante R, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8273–82
DNA duplex with the potential to change handedness after every half a turn. Brahmachari SK, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7273–81
Molecular structure of nicked DNA: a substrate for DNA repair enzymes. Aymami J, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2526–30
The spatial distribution of exposed nuclear DNA in normal, cancer, and reverse–transformed cells. Krystosek A, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6560–4
A protein structural motif that bends DNA. White SW, et al. **Proteins** 1989;5(4):281–8
Deoxyribonucleic acid sequence mapping on metaphase chromosomes by immunoelectron microscopy. Narayanswami S, et al. **Scanning Microsc Suppl** 1989; 3:65–76
Organization of nucleoskeleton and its relation to DNA topological organization. Bao SD, et al. **Sci China [B]** 1989 Mar;32(3):314–23
Generation of a panel of somatic cell hybrids containing unselected fragments of human chromosome 10 by X–ray irradiation and cell fusion: application to isolating the MEN2A region in hybrid cells. Goodfellow PJ, et al. **Somat Cell Mol Genet** 1990 Mar;16(2):163–71
[Ultrastructural study of DNA—liposomes—Mg2+ complexes] Kuvichkin VV. **Biofizika** 1990 Mar–Apr; 35(2):256–62 (Eng. Abstr.) **(Rus)**
[Formation of interdisks from the P–element DNA material in Drosophila polytene chromosomes] Semeshin VF, et al. **Genetika** 1990 Mar;26(3):448–56 (Eng. Abstr.) **(Rus)**
[Characteristics of reassociation of DNA in polytene chromosome preparations of malaria mosquito] Sharakhova MV. **Genetika** 1990 Feb;26(2):367–9 (Eng. Abstr.) **(Rus)**

DNA–ADENINE METHYLASES see DNA MODIFICATION METHYLASES (ADENINE–SPECIFIC)

DNA, BACTERIAL

Inhibition of restriction endonuclease cleavage via triple helix formation by homopyrimidine oligonucleotides. François JC, et al. **Biochemistry** 1989 Dec 12;28(25):9617–9
Effect of antineoplastic agents on the DNA cleavage/religation reaction of eukaryotic topoisomerase II: inhibition of DNA religation by etoposide. Osheroff N. **Biochemistry** 1989 Jul 25;28(15):6157–60
Probing of DNA structure with osmium tetroxide. Effect of ligands. Paleček E, et al. **Biophys Chem** 1989 Sep 15; 34(1):63–8
Photoelectron imaging of DNA. Griffith OH, et al. **Biopolymers** 1990 Aug 15–Sep;29(10–11):1491–3
Interaction of berberine chloride with deoxyribonucleic acids: evidence for base and sequence specificity. Debnath D, et al. **Indian J Biochem Biophys** 1989 Aug;26(4):201–8
Legionella pneumophila htpAB heat shock operon: nucleotide sequence and expression of the 60–kilodalton antigen in L. pneumophila–infected HeLa cells. Hoffman PS, et al. **Infect Immun** 1990 Oct;58(10):3380–7
Cloning and nucleotide sequence of a heat–stable enterotoxin gene from Vibrio cholerae non–O1 isolated from a patient with traveler's diarrhea. Ogawa A, et al. **Infect Immun** 1990 Oct;58(10):3325–9
DNA relatedness among strains of Leptospira biflexa. Ramadass P, et al. **Int J Syst Bacteriol** 1990 Jul;40(3):231–5
Experimental error in DNA–DNA pairing: a survey of the literature. Hartford T, et al. **J Appl Bacteriol** 1990 Jun; 68(6):527–42
Distribution and evolution of sequence characteristics in the E. coli genome. Blake RD, et al. **J Biomol Struct Dyn** 1986 Oct;4(2):291–307
Characteristic features of thermal stability map of DNA in Escherichia coli and eukaryotic genes. Hanai R, et al. **J Biomol Struct Dyn** 1988 Aug;6(1):51–62
Analysis of supercoiled circular plasmids in infectious and non–infectious Borrelia burgdorferi. Simpson WJ, et al. **Microb Pathog** 1990 Feb;8(2):109–18
DNA supercoiling and environmental regulation of virulence

gene expression in Shigella flexneri. Dorman CJ, et al. **Nature** 1990 Apr 19;344(6268):789–92

The distribution of restriction enzyme sites in Escherichia coli. Churchill GA, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):589–97

Dam methyltransferase sites located within the loop region of the oligopurine–oligopyrimidine sequences capable of forming H–DNA are undermethylated in vivo. Parniewski P, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):605–11

Cleavage of DNA by HaeII is inhibited by the presence of 5–methylcytosine at the second cytosine within the recognition sequence. Piekarowicz A, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10132

Electrotransfer: direct transfer of bacterial plasmid DNA by electroporation. Summers DK, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2192

The complete nucleotide sequence of a small cryptic plasmid from Lactobacillus plantarum. Skaugen M. **Plasmid** 1989 Sep;22(2):175–9

Nucleotide-specific cleavage and minor–groove interaction of DNA with esperamicin antitumor antibiotics. Sugiura Y, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7672–6

Two genomic species in Borrelia burgdorferi. Postic D, et al. **Res Microbiol** 1990 May;141(4):465–75

[Gene cloning of an Actinobacillus actinomycetemcomitans Y4 antigen that reacts to peripheral blood sera in advanced destructive periodontitis patients] Arakawa S. **Kokubyo Gakkai Zasshi** 1989 Dec;56(4):494–512 (Eng. Abstr.) **(Jpn)**

[Cultivation trial of Mycobacterium leprae by transformation with deoxyribonucleic acid from cultivable acid–fast bacilli] Mori T. **Nippon Rai Gakkai Zasshi** 1988 Oct–Dec; 57(4):205–12 **(Jpn)**

ANALYSIS

Restriction endonuclease analysis of the DNA of Rickettsia prowazekii vaccine strain E and its revertant. Balaeva NM, et al. **Acta Virol (Praha)** 1989 Sep;33(5):454–64

Cloning and analysis of rfb gene synthesizing the mannan O side chain of Escherichia coli 09 lipopolysaccharide. Kido N, et al. **Adv Exp Med Biol** 1990;256:141–5

Detection of Brucella abortus in mammalian tissue, using biotinylated, whole genomic DNA as a molecular probe. Hopper BR, et al. **Am J Vet Res** 1989 Dec;50(12):2064–8

DNA fingerprinting for differentiation of field isolates from reference vaccine strains of Pasteurella multocida in turkeys. Kim CJ, et al. **Am J Vet Res** 1990 Feb;51(2):207–10

Characterization of the plasmids of Moraxella bovis. Wilt GR, et al. **Am J Vet Res** 1989 Oct;50(10):1678–83

Detection of rickettsiae in arthropod vectors by DNA amplification using the polymerase chain reaction. Azad AF, et al. **Ann N Y Acad Sci** 1990;590:557–63

Gene amplification by polymerase chain reaction for detection of Ehrlichia risticii DNA in Potomac horse fever. Biswas B, et al. **Ann N Y Acad Sci** 1990;590:582–3

Diagnosis of acute typhus infection using the polymerase chain reaction. Carl M, et al. **Ann N Y Acad Sci** 1990; 590:439–44

DNA probes for the identification of Coxiella burnetti strains. Frazier ME, et al. **Ann N Y Acad Sci** 1990;590:445–58

Use of pulsed field gel electrophoresis to differentiate Coxiella burnetii strains. Heinzen R, et al. **Ann N Y Acad Sci** 1990;590:504–13

Detection of Rickettsia tsutsugamushi by gene amplification using polymerase chain reaction techniques. Kelly DJ, et al. **Ann N Y Acad Sci** 1990;590:564–71

Localization of DNA in Coxiella burnetii by post–embedding immunoelectron microscopy. McCaul TF, et al. **Ann N Y Acad Sci** 1990;590:136–47

Strategy for detection and differentiation of Coxiella burnetii strains using the polymerase chain reaction. Mallavia LP, et al. **Ann N Y Acad Sci** 1990;590:572–81

Analysis of QpRS–specific sequences from Coxiella burnetii. Minnick MF, et al. **Ann N Y Acad Sci** 1990;590:514–22

Genetic relationships among the members of the family rickettsiaceae as shown by DNA restriction fragment polymorphism analysis. Ralph D, et al. **Ann N Y Acad Sci** 1990;590:541–52

Use of DNA probes for differentiation of spotted fever group and other rickettsiae. Regnery R. **Ann N Y Acad Sci** 1990; 590:422–9

Analysis of Rickettsia tsutsugamushi amplified DNA that encodes an antigenic gene product. Spruill CL, et al. **Ann N Y Acad Sci** 1990;590:483–4

Detection of Rickettsia rickettsii DNA in clinical specimens by enzymatic amplification using polymerase chain reaction technology. Tzianabos T, et al. **Ann N Y Acad Sci** 1990; 590:553–6

Cloning and hybridization analysis of ermP, a macrolide–lincosamide–streptogramin B resistance determinant from Clostridium perfringens. Berryman DI, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1346–53

Sequence analysis and evolutionary perspectives of ROB–1 beta–lactamase. Juteau JM, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1354–9

Rapid nucleic acid assay for detection of bacteria with tetM–mediated tetracycline resistance. Sanchez–Pescador R, et al. **Antimicrob Agents Chemother** 1989 Oct; 33(10):1813–5

Detection of Mycoplasma pneumoniae in simulated clinical samples by polymerase chain reaction. Brief report. Jensen JS, et al. **APMIS** 1989 Nov;97(11):1046–8

Detection of coliform bacteria in water by polymerase chain reaction and gene probes. Bej AK, et al. **Appl Environ Microbiol** 1990 Feb;56(2):307–14

Insertion elements on lactococcal proteinase plasmids. Haandrikman AJ, et al. **Appl Environ Microbiol** 1990 Jun; 56(6):1890–6

Molecular analysis of deep–subsurface bacteria. Jiménez L. **Appl Environ Microbiol** 1990 Jul;56(7):2108–13

Characterization of a plasmid from the ruminal bacterium Selenomonas ruminantium. Martin SA, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3035–8

Amplification of the rbcL gene from dissolved and particulate DNA from aquatic environments. Paul JH, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1963–6

Genome analysis of Bradyrhizobium japonicum serocluster 123 field isolates by using field inversion gel electrophoresis. Sobral BW, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1949–53

Isolation of Legionella longbeachae serogroup 1 from potting mixes. Steele TW, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):49–53

Identification of Frankia strains in nodules by hybridization of polymerase chain reaction products with strain–specific oligonucleotide probes. Simonet P, et al. **Arch Microbiol** 1990;153(3):235–40

A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AP sites and thymine glycols from DNA. Lin JJ, et al. **Biochemistry** 1989 Oct 3; 28(20):7979–84

Structure and function of L–lactate dehydrogenases from thermophilic, mesophilic and psychrophilic bacteria, IX. Identification, isolation and nucleotide sequence of two L–lactate dehydrogenase genes of the psychrophilic bacterium Bacillus psychrosaccharolyticus. Vckovski V, et al. **Biol Chem Hoppe Seyler** 1990 Feb;371(2):103–10

Adaptation of the slide immunoenzymatic assay for quantification of DNA hybridization: SIA–DNA. Conway de Macario E, et al. **Biotechniques** 1990 Feb;8(2):210–7

Lid lysates: an economical and rapid method for plasmid analysis. Hoekstra MF. **Biotechniques** 1988 Nov–Dec; 6(10):929–32

A simple and effective electroporation apparatus. Speyer JF. **Biotechniques** 1990 Jan;8(1):28–30

Restriction endonuclease fingerprinting analysis of Canadian isolates of Aeromonas salmonicida. McCormick WA, et al. **Can J Microbiol** 1990 Jan;36(1):24–32

Analysis of southern Ontario Actinobacillus (Haemophilus) pleuropneumoniae isolates by restriction endonuclease fingerprinting. MacInnes JI, et al. **Can J Vet Res** 1990 Apr; 54(2):244–50

Frequent contamination of Taq polymerase with DNA [letter] Böttger EC. **Clin Chem** 1990 Jun;36(6):1258–9

Molecular characterization of trimethoprim resistance in Shigella sonnei in Sicily. Agodi A, et al. **Epidemiol Infect** 1990 Aug;105(1):29–40

Plasmid profiles of antibiotic–resistant Shigella dysenteriae types 2, 3, 4, 6 and 7 isolated in Ethiopia during 1976–85. Gebre–Yohannes A, et al. **Epidemiol Infect** 1990 Aug; 105(1):65–72

Trimethoprim resistance gene in Shigella dysenteriae 1 isolates obtained from widely scattered locations of Asia. Haider K, et al. **Epidemiol Infect** 1990 Apr;104(2):219–28

Plasmid profile analysis and antimicrobial susceptibility patterns of Shigella isolates from Nigeria. Olukoya DK, et al. **Epidemiol Infect** 1990 Aug;105(1):59–64

Restriction endonuclease characterization of resistant plasmids in Enterobacteriaceae isolated from children in the Sudan. Shears P, et al. **Epidemiol Infect** 1989 Dec; 103(3):487–96

Cloning and sequence analysis of the genes encoding the alpha and beta subunits of the E1 component of the pyruvate dehydrogenase multienzyme complex of Bacillus stearothermophilus. Hawkins CF, et al. **Eur J Biochem** 1990 Jul 31;191(2):337–46

Sequence analysis of the peptide–elongation factor EF–2 gene, downstream from those of ribosomal proteins H–S12 and H–S7, from the archaebacterial extreme halophile, Halobacterium halobium. Itoh T. **Eur J Biochem** 1989 Dec 8;186(1–2):213–9

Characterization of the translational start site for IF2 beta, a short form of Escherichia coli initiation factor IF2. Morel–Deville F, et al. **Eur J Biochem** 1990 Mar 30; 188(3):605–14

Transcriptional control of the cysG gene of Escherichia coli K–12 during aerobic and anaerobic growth. Peakman T, et al. **Eur J Biochem** 1990 Jul 31;191(2):325–31

Molecular epidemiological study of Pseudomonas aeruginosa isolates from patients with acute leukemia. Kern W, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):257–61

Use of DNA fingerprinting in an epidemiologic study of outbreak–specific and non–specific strains of group C Neisseria meningitidis. Facinelli B, et al. **Eur J Epidemiol** 1990 Mar;6(1):80–3

Lambda plac10 transducing bacteriophage: DNA primary structure of the region of the abnormal excision. Shpakovski GV, et al. **FEBS Lett** 1989 Nov 20;258(1):171–4

Restriction endonuclease analysis of four Borrelia burgdorferi strains. Cinco M, et al. **FEMS Microbiol Immunol** 1989 Dec;1(8–9):511–4

Immunoblotting of a Staphylococcus aureus DNA library as a tool for isolating potential antigenic proteins. Kothari S, et al. **FEMS Microbiol Immunol** 1989 Dec;1(8–9):449–58

Rapid procedure to determine the DNA base composition from small amounts of gram–positive bacteria. Ezaki T, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1–2):127–30

Relationships among Vibrio costicola strains assessed by DNA–DNA hybridization. Gutiérrez MC, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1–2):37–40

Transformation of Bacillus thuringiensis vegetative cells by electroporation. Masson L, et al. **FEMS Microbiol Lett** 1989 Aug;51(3):273–7

A rapid method for the detection of potentially viable Mycobacterium leprae in human biopsies: a novel application of PCR. Woods SA, et al. **FEMS Microbiol Lett** 1989 Dec;53(3):305–9

'DNA' as contaminants in antibiotics and its capacity to transform bacteria to drug resistance. Chakrabarty AN, et al. **Indian J Exp Biol** 1990 Jan;28(1):58–62

Physical demonstration of a high molecular weight bacteriocin plasmid in Vibrio cholerae by genetic transformation process. Basu S, et al. **Indian J Med Res** 1990 Mar;91:120–3

Borrelia burgdorferi contains repeated DNA sequences that are species specific and plasmid associated. Simpson WJ, et al. **Infect Immun** 1990 Apr;58(4):847–53

Cloning of the genes for AF/R1 pili from rabbit enteroadherent Escherichia coli RDEC–1 and DNA sequence of the major structural subunit. Wolf MK, et al. **Infect Immun** 1990 Apr;58(4):1124–8

A DNA probe specific for L. monocytogenes in the genus Listeria. Chenevert J, et al. **Int J Food Microbiol** 1989 Jul; 8(4):317–9

Use of plasmid profiles and restriction endonuclease digest in environmental studies of Listeria spp. from raw milk. Fistrovici E, et al. **Int J Food Microbiol** 1990 Jan; 10(1):43–50

Extracellular haemolysin of Proteus penneri coded by chromosomal hly genes is similar to the alpha–haemolysin of Escherichia coli. Lukomski S, et al. **Int J Med Microbiol** 1990 Jun;273(2):150–5

Evaluation of a non–radioactive DNA probe for confirmatory identification of Neisseria gonorrhoeae. Näher H, et al. **Int J Med Microbiol** 1989 Dec;272(2):181–5

A group of indole–negative bovine strains with high deoxyribonucleic acid homology to Pasteurella multocida. Sachse K, et al. **Int J Med Microbiol** 1990 Jun;273(2):143–9

Application of a biotin–labelled DNA probe to detect Campylobacter. Zhou YT, et al. **Int J Med Microbiol** 1989 Dec;272(2):186–90

Immunological and genetical relatedness of type–1 and type–2 fimbriae in salmonellas of serotypes Gallinarum, Pullorum and Typhimurium. Crichton PB, et al. **J Appl Bacteriol** 1989 Sep;67(3):283–91

Comparative study of colorimetric DNA hybridization method and conventional culture procedure for detection of Salmonella in foods. Chan SW, et al. **J Assoc Off Anal Chem** 1990 May–Jun;73(3):419–24

Colorimetric deoxyribonucleic acid hybridization assay for rapid screening of Salmonella in foods: collaborative study. Curiale MS, et al. **J Assoc Off Anal Chem** 1990 Mar–Apr; 73(2):248–56

Sequence analysis of the inversion region containing the pilin genes of Moraxella bovis. Fulks KA, et al. **J Bacteriol** 1990 Jan;172(1):310–6

Two genes that regulate exopolysaccharide production in Rhizobium sp. strain NGR234: DNA sequences and resultant phenotypes. Gray JX, et al. **J Bacteriol** 1990 Jan; 172(1):193–203

Nucleotide sequence and transcriptional products of the csg locus of Myxococcus xanthus. Hagen TJ, et al. **J Bacteriol** 1990 Jan;172(1):15–23

DNA cloning and organization of the Staphylococcus aureus gyrA and gyrB genes: close homology among gyrase proteins and implications for 4–quinolone action and resistance. Hopewell R, et al. **J Bacteriol** 1990 Jun; 172(6):3481–4

Cloning and DNA sequence of the gene coding for the major sigma factor from Myxococcus xanthus. Inouye S. **J Bacteriol** 1990 Jan;172(1):80–5

Cloning and nucleotide sequence of the Enterobacter aerogenes signal peptidase II (lsp) gene. Isaki L, et al. **J Bacteriol** 1990 Jan;172(1):469–72

Inactivation, sequence, and lacZ fusion analysis of a regulatory locus required for repression of nitrogen fixation genes in Rhodobacter capsulatus. Kranz RG, et al. **J Bacteriol** 1990 Jan;172(1):53–62

Sequence analysis and expression of the bacterial dichloromethane dehalogenase structural gene, a member of the glutathione S–transferase supergene family. La Roche SD, et al. **J Bacteriol** 1990 Jan;172(1):164–71

Identification of phosphate starvation–inducible genes in Escherichia coli K–12 by DNA sequence analysis of psi::lacZ(Mu d1) transcriptional fusions. Metcalf WW, et al. **J Bacteriol** 1990 Jun;172(6):3191–200

Characterization of transposon insertion out– mutants of Erwinia carotovora subsp. carotovora defective in enzyme export and of a DNA segment that complements out mutations in E. carotovora subsp. carotovora, E. carotovora subsp. atroseptica, and Erwinia chrysanthemi. Murata H, et al. **J Bacteriol** 1990 Jun;172(6):2970–8

Nucleotide sequence and transcriptional analysis of the redD locus of Streptomyces coelicolor A3(2). Narva KE, et al. **J Bacteriol** 1990 Jan;172(1):326–33

Dramatic increase in negative superhelicity of plasmid DNA

in the forespore compartment of sporulating cells of Bacillus subtilis. Nicholson WL, et al. **J Bacteriol** 1990 Jan; 172(1):7–14

Identification, distribution, and sequence analysis of new insertion elements in Caulobacter crescentus. Ohta N, et al. **J Bacteriol** 1990 Jan;172(1):236–42

Cloning and nucleotide sequence of luxR, a regulatory gene controlling bioluminescence in Vibrio harveyi. Showalter RE, et al. **J Bacteriol** 1990 Jun;172(6):2946–54

Nucleotide sequence and cloning in Bacillus subtilis of the Bacillus stearothermophilus pleiotropic regulatory gene degT. Takagi M, et al. **J Bacteriol** 1990 Jan;172(1):411–8

Identification and sequence of the drpA gene from Escherichia coli. Zhou Z, et al. **J Bacteriol** 1990 Jan; 172(1):281–6

Amplification of pBR322 plasmid DNA in Escherichia coli relA strains during batch and fed-batch fermentation. Hofmann KH, et al. **J Basic Microbiol** 1990;30(1):37–41

Sequence-directed DNA bending upstream of the streptokinase promoter. Müller J, et al. **J Basic Microbiol** 1989;29(9):611–6

Characterization of new resistance plasmids belonging to incompatibility group IncQ. Tietze E, et al. **J Basic Microbiol** 1989;29(10):695–706

Detection of Mycoplasma pneumoniae by using the polymerase chain reaction. Bernet C, et al. **J Clin Microbiol** 1989 Nov;27(11):2492–6

Phenotypic characterization, cellular fatty acid composition, and DNA relatedness of aerococci and comparison to related genera. Bosley GS, et al. **J Clin Microbiol** 1990 Mar;28(3):416–21

Restriction endonuclease analysis of Eikenella corrodens. Chen CK, et al. **J Clin Microbiol** 1990 Jun;28(6):1265–70

Investigation of zoonotically acquired Campylobacter jejuni enteritis with serotyping and restriction endonuclease DNA analysis. Fox JG, et al. **J Clin Microbiol** 1989 Nov; 27(11):2423–5

Rapid field inversion gel electrophoresis in combination with an rRNA gene probe in the epidemiological evaluation of staphylococci [published erratum appears in J Clin Microbiol 1990 May;28(5):1088] Goering RV, et al. **J Clin Microbiol** 1990 Mar;28(3):426–9

Specific detection of Mycobacterium tuberculosis complex strains by polymerase chain reaction. Hermans PW, et al. **J Clin Microbiol** 1990 Jun;28(6):1204–13

Comparison of restriction endonuclease analysis and phenotypic typing methods for differentiation of Yersinia enterocolitica isolates. Kapperud G, et al. **J Clin Microbiol** 1990 Jun;28(6):1125–31

DNA and protein analyses of tick-derived isolates of Borrelia burgdorferi from California. LeFebvre RB, et al. **J Clin Microbiol** 1990 Apr;28(4):700–7

DNA polymorphism in Mycobacterium paratuberculosis, "wood pigeon mycobacteria," and related mycobacteria analyzed by field inversion gel electrophoresis. Lévy-Frébault VV, et al. **J Clin Microbiol** 1989 Dec; 27(12):2823–6

Detection and characterization of fecal verotoxin-producing Escherichia coli from healthy cattle. Montenegro MA, et al. **J Clin Microbiol** 1990 Jun;28(6):1417–21

Relationship among selected Leptospira interrogans serogroups as determined by nucleic acid hybridization. Nielsen JN, et al. **J Clin Microbiol** 1989 Dec;27(12):2724–9

Use of polymerase chain reaction for detection of Chlamydia trachomatis. Ostergaard L, et al. **J Clin Microbiol** 1990 Jun;28(6):1254–60

Genotypical variation of Campylobacter pylori from gastric mucosa. Oudbier JH, et al. **J Clin Microbiol** 1990 Mar; 28(3):559–65

Sequence analysis and amplification by polymerase chain reaction of a cloned DNA fragment for identification of Mycobacterium tuberculosis. Patel RJ, et al. **J Clin Microbiol** 1990 Mar;28(3):513–8

Detection of Borrelia burgdorferi infection in Ixodes dammini ticks with the polymerase chain reaction. Persing DH, et al. **J Clin Microbiol** 1990 Mar;28(3):566–72

Rapid in situ generation of DNA restriction endonuclease patterns for Neisseria gonorrhoeae. Poh CL, et al. **J Clin Microbiol** 1989 Dec;27(12):2784–8

Rapid and specific detection of verotoxin genes in Escherichia coli by the polymerase chain reaction [published erratum appears in J Clin Microbiol 1990 Jun;28(6):1491] Pollard DR, et al. **J Clin Microbiol** 1990 Mar;28(3):540–5

Nationwide surveillance program to identify diarrhea-causing Escherichia coli in children in Thailand. Sunthadvanich R, et al. **J Clin Microbiol** 1990 Mar; 28(3):469–72

Detection of Rickettsia rickettsii DNA in clinical specimens by using polymerase chain reaction technology. Tzianabos T, et al. **J Clin Microbiol** 1989 Dec;27(12):2866–8

Detection of murine typhus infection in fleas by using the polymerase chain reaction. Webb L, et al. **J Clin Microbiol** 1990 Mar;28(3):530–4

Signature patterns of DNA restriction fragments of Helicobacter pylori before and after treatment. Owen RJ, et al. **J Clin Pathol** 1990 Aug;43(8):646–9

Cloning and sequencing of the gerD gene of Bacillus subtilis. Yon JR, et al. **J Gen Microbiol** 1989 Dec;135 (Pt 12):3431–45

Polymorphic repetitive DNA sequences in Mycobacterium tuberculosis detected with a gene probe from a Mycobacterium fortuitum plasmid. Zainuddin ZF, et al. **J Gen Microbiol** 1989 Sep;135 (Pt 9):2347–55

Resolution of recent evolutionary divergence among Escherichia coli from related lineages: the application of pulsed field electrophoresis to molecular epidemiology. Arbeit RD, et al. **J Infect Dis** 1990 Feb;161(2):230–5

A sensitive and specific DNA probe to identify enteroaggregative Escherichia coli, a recently discovered diarrheal pathogen. Baudry B, et al. **J Infect Dis** 1990 Jun; 161(6):1249–51

Diagnosis of acute typhus infection using the polymerase chain reaction. Carl M, et al. **J Infect Dis** 1990 Apr; 161(4):791–3

Detection of Shigella in feces using DNA amplification. Frankel G, et al. **J Infect Dis** 1990 Jun;161(6):1252–6

Detection and differentiation of Chlamydia trachomatis, Chlamydia psittaci, and Chlamydia pneumoniae by DNA amplification. Holland SM, et al. **J Infect Dis** 1990 Oct; 162(4):984–7

Molecular epidemiology of Shigella sonnei in Pima County, Arizona: evidence for a Mexico-related plasmid. Litwin CM, et al. **J Infect Dis** 1990 Apr;161(4):797–800

Frequency and organization of pap homologous DNA in relation to clinical origin of uropathogenic Escherichia coli. Plos K, et al. **J Infect Dis** 1990 Mar;161(3):518–24

A specific and sensitive assay for the Lyme disease spirochete Borrelia burgdorferi using the polymerase chain reaction. Rosa PA, et al. **J Infect Dis** 1989 Dec;160(6):1018–29

The use of a specific DNA probe and polymerase chain reaction for the detection of Mycobacterium leprae [published erratum appears in J Infect Dis 1990 Sep;162(3):786] Williams DL, et al. **J Infect Dis** 1990 Jul; 162(1):193–200

Molecular genetic analysis of Actinobacillus actinomycetemcomitans epidemiology. Zambon JJ, et al. **J Periodontol** 1990 Feb;61(2):75–80

A DNA probe for specific detection of Mycoplasma pulmonis. Kunita S, et al. **Jikken Dobutsu** 1989 Jul; 38(3):215–9

Beneficial effects of "jumping PCR" in diagnostic procedures [letter; comment] Wren BW, et al. **Lancet** 1990 Jun 23; 335(8704):1540 Comment on: Lancet 1990 May 19;335(8699):1220.

Characterization of lipid-modified immunogenic proteins of Treponema pallidum expressed in Escherichia coli. Schouls LM, et al. **Microb Pathog** 1989 Sep;7(3):175–88

The polymerase chain reaction for Mycoplasma pulmonis. Harasawa R, et al. **Microbiol Immunol** 1990;34(4):393–5

Genotypic and phenotypic differentiation of Flavobacterium indologenes Yabuuchi et al 1983 from Flavobacterium gleum Holmes et al 1984. Yabuuchi E, et al. **Microbiol Immunol** 1990;34(1):73–6

Genomic fingerprints and phenotypic characteristics of strains of Neisseria meningitidis causing disease in Italy. Mastrantonio P, et al. **Microbiologica** 1990 Apr; 13(2):109–13

Use of DNA restriction endonuclease digest and ribosomal RNA gene probe patterns to fingerprint Helicobacter pylori and Helicobacter mustelae isolated from human and animal hosts. Morgan DD, et al. **Mol Cell Probes** 1990 Aug;4(4):321–34

DNA hybridization for diagnosis of pertussis. Reizenstein E, et al. **Mol Cell Probes** 1990 Aug;4(4):299–306

A physical map of the Mycoplasma genitalium genome. Colman SD, et al. **Mol Microbiol** 1990 Apr;4(4):683–7

Purine biosynthesis in Escherichia coli K12: structure and DNA sequence studies of the purHD locus. Flannigan KA, et al. **Mol Microbiol** 1990 Mar;4(3):381–92

The coagulase of Staphylococcus aureus 8325-4. Sequence analysis and virulence of site-specific coagulase-deficient mutants. Phonimdaeng P, et al. **Mol Microbiol** 1990 Mar; 4(3):393–404

A rapid method for the analysis of plasmid content and copy number in various Streptomycetes grown on agar plates. Labes G, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2197

Comparison of chemiluminescent DNA probe to cell culture for the screening of Chlamydia trachomatis in a gynecology clinic population. Mercer LJ, et al. **Obstet Gynecol** 1990 Jul;76(1):114–7

Enterobacter cancerogenus (Urošević, 1966) Dickey and Zumoff 1988, a senior subjective synonym of Enterobacter taylorae Farmer et al. (1985). Grimont PA, et al. **Res Microbiol** 1989 Sep;140(7):459–65

Determination of G + C content of DNA using high-performance liquid chromatography for the identification of staphylococci and micrococci. Peyret M, et al. **Res Microbiol** 1989 Sep;140(7):467–75

Genetic and serologic relatedness between Mycoplasma fermentans strains and a mycoplasma recently identified in tissues of AIDS and non-AIDS patients. Saillard C, et al. **Res Virol** 1990 May-Jun;141(3):385–95

The molecular biology of Borrelia. Barbour AG. **Rev Infect Dis** 1989 Sep-Oct;11 Suppl 6:S1470–4 (20 ref.)

Genomic heterogeneity of canine ureaplasmas revealed by restriction endonuclease analysis. Harasawa R, et al. **Zentralbl Veterinarmed [B]** 1990 Feb;37(1):77–80

[Clinical Aeromonas hydrophila contain the DNA fragments with nucleotide sequence similar to those of hemolysin and cholera-toxin gene] Lai HC, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1990 May;23(2):126–33 (Eng. Abstr.) **(Chi)**

[Evaluation of a biotinylated probe for identification of Neisseria gonorrhoeae] Bollet C, et al. **Pathol Biol (Paris)** 1989 Oct;37(8):897–900 (Eng. Abstr.) **(Fre)**

[The detection of legionellae in a water pipe system using gene probe technics and culture methods] Bauer R, et al. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):78–83 (Eng. Abstr.) **(Ger)**

[Mutagenicity of steviol: an analytical approach using the Southern blotting system] Matsui M, et al. **Eisei Shikenjo Hokoku** 1989;(107):83–7 (Eng. Abstr.) **(Jpn)**

[Identification of Mycobacterium avium complex isolated in Tokyo University Hospital using DNA probe procedure] Goto M, et al. **Kansenshogaku Zasshi** 1990 Mar; 64(3):269–73 (Eng. Abstr.) **(Jpn)**

[Biological characteristics of plasmid carrying a repeated deoxyribonucleic acid sequence] Fujii T, et al. **Yakugaku Zasshi** 1989 Aug;109(8):574–81 (Eng. Abstr.) **(Jpn)**

[Study of polymorphism of strains of Vibrio cholerae of various origins using a method of genomic fingerprinting] Gintsburg AL, et al. **Genetika** 1989 Jul;25(7):1320–4 (Eng. Abstr.) **(Rus)**

[Study of the plasmid composition of various strains of Treponema pallidum] Piruzian AL. **Mol Gen Mikrobiol Virusol** 1989 Aug;(8):37–42 (Eng. Abstr.) **(Rus)**

[A fluorometric method of determining DNA in cells] Ogievetskaia MM, et al. **Prikl Biokhim Mikrobiol** 1989 Jul-Aug;25(4):558–64 (Eng. Abstr.) **(Rus)**

[DNA-DNA homology and phenotypic characterization of environmental strains of Vibrio parahaemolyticus and Vibrio pelagius] Pujalte MJ, et al. **Microbiologia** 1986 Oct; 2(2):121–8 (Eng. Abstr.) **(Spa)**

BIOSYNTHESIS

Site-directed mutagenesis by complementary-strand synthesis using a closing oligonucleotide and double-stranded DNA templates. Slilaty SN, et al. **Anal Biochem** 1990 Feb 15;185(1):194–200

Contribution of permeability and sensitivity to inhibition of DNA synthesis in determining susceptibilities of Escherichia coli, Pseudomonas aeruginosa, and Alcaligenes faecalis to ciprofloxacin. Bedard J, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1457–64

Active site of Escherichia coli DNA photolyase: mutations at Trp277 alter the selectivity of the enzyme without affecting the quantum yield of photorepair. Li YF, et al. **Biochemistry** 1990 Jun 19;29(24):5698–706

Molecular genetic analysis of bacterial plasmid promiscuity. Krishnapillai V. **FEMS Microbiol Rev** 1988 Sep;4(3):223–37 (85 ref.)

Effect of the DNA replication velocity on the response of Salmonella typhimurium to mild heating. Mirhabibollahi B, et al. **J Appl Bacteriol** 1990 Jan;68(1):75–80

SOS repair can be about as effective for single-stranded DNA as for double-stranded DNA and even more so. Tessman I. **J Bacteriol** 1990 Sep;172(9):5503–5

The fidelity of DNA synthesis catalyzed by derivatives of Escherichia coli DNA polymerase I. Bebenek K, et al. **J Biol Chem** 1990 Aug 15;265(23):13878–87

Reverse transcriptase from Escherichia coli exists as a complex with msDNA and is able to synthesize double-stranded DNA. Lampson BC, et al. **J Biol Chem** 1990 May 25;265(15):8490–6

Isolated Coxiella burnetii synthesizes DNA during acid activation in the absence of host cells. Chen SY, et al. **J Gen Microbiol** 1990 Jan;136 (Pt 1):89–96

Inhibition of macromolecular synthesis in cultured macrophages by Pseudomonas pseudomallei exotoxin. Mohamed R, et al. **Microbiol Immunol** 1989;33(10):811–20

Replication of plasmids in gram-negative bacteria. Kües U, et al. **Microbiol Rev** 1989 Dec;53(4):491–516 (372 ref.)

DNA replication of plasmids from gram-positive bacteria in Bacillus subtilis. Plasmid pUB110 as a model system. Alonso JC. **Microbiologia** 1989 Jun;5(1):5–12 (42 ref.)

Effect of enhanced synthesis of the epsilon subunit of DNA polymerase III on spontaneous and UV-induced mutagenesis of the Escherichia coli glyU gene. Ciesla Z, et al. **Mol Gen Genet** 1990 Apr;221(2):251–5

Mechanism for induction of adaptive mutations in Escherichia coli. Boe L. **Mol Microbiol** 1990 Apr; 4(4):597–601

Constraints in chromosomal inversions in Escherichia coli are not explained by replication pausing at inverted terminator-like sequences. François V, et al. **Mol Microbiol** 1990 Apr;4(4):537–42

Genetic instability and hypervariability in Streptomyces ambofaciens: towards an understanding of a mechanism of genome plasticity. Leblond P, et al. **Mol Microbiol** 1990 May;4(5):707–14 (40 ref.)

The generation of concatemeric plasmid DNA in Bacillus subtilis as a consequence of bacteriophage SPP1 infection. Bravo A, et al. **Nucleic Acids Res** 1990 Aug 25; 18(16):4651–7

High fidelity DNA synthesis by the Thermus aquaticus DNA polymerase. Eckert KA, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3739–44

Minichromosome assembly accompanying repair-type DNA synthesis in Xenopus oocytes. Ryoji M, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10243–58

Synthesis and expression in Escherichia coli of DNA

encoding the murine lambda 1 chain of a monoclonal antibody specific for Salmonella serotype B O-antigen. Anand NN, et al. **Protein Eng** 1990 May;3(6):541–6

Genes and the replication cycle of Escherichia coli. Donachie WD, et al. **Res Microbiol** 1990 Jan;141(1):64–75 (68 ref.)

The E. coli dnaA initiation protein: a protein for all seasons. Georgopoulos C. **Trends Genet** 1989 Oct;5(10):319–21 (20 ref.)

CEREBROSPINAL FLUID

Use of the polymerase chain reaction to detect DNA sequences specific to pathogenic treponemes in cerebrospinal fluid. Hay PE, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):233–8

CHEMICAL SYNTHESIS

The synthesis and functional evaluation of RNA and DNA polymers having the sequence of Escherichia coli tRNA(fMet). Perreault JP, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):87–93

Chemical synthesis of the thymidylate synthase gene. Climie S, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):633–7

DRUG EFFECTS

Interactions between potential anti-tumour 2,5-bis(1-aziridinyl)-1,4-benzoquinone derivatives and glutathione: reductive activation, conjugation and DNA damage. Lusthof KJ, et al. **Anticancer Drug Des** 1990 Aug; 5(3):283–90

Use of in vitro topoisomerase II assays for studying quinolone antibacterial agents. Barrett JF, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1697–703

Role of penicillinase plasmids in the stability of the mecA gene in methicillin-resistant Staphylococcus aureus. Hiramatsu K, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):600–4

Position of a single acetylaminofluorene adduct within a mutational hot spot is critical for the related mutagenic event. Burnouf D, et al. **Basic Life Sci** 1990;52:277–87

Stimulation and inhibition of 1,3-bis(2-chloroethyl)-1-nitrosourea-induced strand breaks and interstrand cross-linking in Col E1 plasmid deoxyribonucleic acid by polyamines and inorganic cations. Srivenugopal KS, et al. **Biochem Pharmacol** 1990 Aug 1; 40(3):473–9

DNA damaging effects and voltammetric studies on the hypoxic cell toxin 3-amino-1,2,4-benzotriazine-1,4-dioxide, SR4233, as a function of pH. Tocher JH, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1405–10

DNA strand scission by the novel antitumor antibiotic leinamycin. Hara M, et al. **Biochemistry** 1990 Jun 19; 29(24):5676–81

Mechanisms of mutagenesis by the vinyl chloride metabolite chloroacetaldehyde. Effect of gene-targeted in vitro adduction of M13 DNA on DNA template activity in vivo and in vitro. Jacobsen JS, et al. **Biochemistry** 1990 Jan 16; 29(2):496–504

Singlet oxygen as an ultimately reactive species in Salmonella typhimurium DNA damage induced by methylene blue/visible light. Epe B, et al. **Carcinogenesis** 1989 Nov; 10(11):2019–24

Further evidence for photoinduced genotoxicity of dictamnine as shown by prophage induction. Fujita H, et al. **Chem Biol Interact** 1989;72(1–2):105–11

Immunoprotective oral whole cell vaccine for enterotoxigenic Escherichia coli diarrhea prepared by in situ destruction of chromosomal and plasmid DNA with colicin E2. Evans DJ Jr, et al. **FEMS Microbiol Immunol** 1988 Jan;1(1):9–18

Intracellular oxidative cleavage of DNA in Escherichia coli by the copper-1,10-phenanthroline complex. Lickl E, et al. **Free Radic Res Commun** 1989;8(1):37–45

Use of a non-radioactive DNA hybridization technique to study the effect of quinolone antibiotics on plasmid replication and curing. Phillips AC, et al. **J Antimicrob Chemother** 1990 May;25(5):745–50

Electrochemical characteristics of five quinolone drugs and their effect on DNA damage and repair in Escherichia coli. Thomas A, et al. **J Antimicrob Chemother** 1990 May; 25(5):733–44

Effect of unusual polyamines on cleavage of DNA by restriction enzymes. Kirino H, et al. **J Biochem (Tokyo)** 1990 May;107(5):661–5

Modification of ColE1 DNA with osmium tetroxide generates positively supercoiled molecules. Vojtíšková M, et al. **J Biomol Struct Dyn** 1985 Feb;2(5):1013–9

Serratia marcescens rpr gene sensitizes Escherichia coli wild-type, xth, and nfo strains to methyl methanesulphonate. Murphy KE, et al. **Mol Microbiol** 1990 Apr;4(4):651–5

The influence of excision repair on the distribution of N-propyl-N'-nitro-N-nitrosoguanidine-induced mutation in Escherichia coli. van der Vliet GM, et al. **Mutagenesis** 1990 Mar;5(2):127–30

Mutagenic nitrenes/nitrenium ions from azido-imidazoarenes and their structure-activity relationships. Wild D, et al. **Mutagenesis** 1989 Nov;4(6):446–52

Repair of ozone-induced DNA lesions in Escherichia coli B cells. Hamelin C, et al. **Mutat Res** 1989 Oct;214(2):253–5

Genotoxicity of benzo[a]pyrene, 2-nitrofluorene and airborne particulates in the DNA-repair host-mediated assay. Heussen GA, et al. **Mutat Res** 1990 May;241(1):83–93

DNA damage and prophage induction and toxicity of nitrofurantoin in Escherichia coli and Vibrio cholerae cells. Sengupta S, et al. **Mutat Res** 1990 May;244(1):55–60

Oxidative DNA damage: repair and inducible cellular responses. Demple B. **Prog Clin Biol Res** 1990;340A:155–67

Effect of umuC on EMS-induced mutagenesis in Escherichia coli deficient in mismatch repair. Janion C, et al. **Prog Clin Biol Res** 1990;340A:145–53

[Cytokinins do not noticeably change the methylation of adenine residues of DNA in cultured Escherichia coli B] Vaniushin BF, et al. **Biokhimiia** 1989 Oct;54(10):1666–72 (Eng. Abstr.) **(Rus)**

[Interference of inducible repair processes in Escherichia coli] Vasil'eva SV, et al. **Genetika** 1989 Dec;25(12):2138–50 (Eng. Abstr.) **(Rus)**

[Effect of salvin and its active component on the incorporation of labelled protein precursors and nucleic acids into the cells of Staphylococcus aureus 209 P] Dodatko TA, et al. **Mikrobiol Zh** 1986 Mar-Apr;48(2):72–4 (Eng. Abstr.) **(Rus)**

[An evaluation of the DNA-damaging action of the metal carcinogen beryllium using a bacterial repair test] Dylevol MV. **Mikrobiol Zh** 1990 Jan-Feb;52(1):34–8 (Eng. Abstr.) **(Rus)**

GENETICS

A genetic approach to demonstrate the role of listeriolysin O in the virulence of Listeria monocytogenes. Mengaud J, et al. **Acta Microbiol Hung** 1989;36(2–3):177–82

Transformation of Actinobacillus pleuropneumoniae and analysis of R factors by electroporation. Lalonde G, et al. **Am J Vet Res** 1989 Nov;50(11):1957–60

An oligonucleotide probe to assay lysis and DNA hybridization of a diverse set of bacteria. Jones CL, et al. **Anal Biochem** 1989 Aug 15;181(1):23–7

Bacterial alginases. Gacesa P, et al. **Antibiot Chemother** 1989; 42:67–71

Hybridization analysis of three chloramphenicol resistance determinants from Clostridium perfringens and Clostridium difficile. Rood JI, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1569–74

Isolation, characterization, and DNA sequence analysis of an AAC(6')-II gene from Pseudomonas aeruginosa. Shaw KJ, et al. **Antimicrob Agents Chemother** 1989 Dec; 33(12):2052–62

The dhfrI trimethoprim resistance gene of Tn7 can be found at specific sites in other genetic surroundings. Sundström L, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):642–50

Mobility of gentamicin resistance genes from staphylococci isolated in the United States: identification of Tn4031, a gentamicin resistance transposon from Staphylococcus epidermidis. Thomas WD Jr, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1335–41

Cloning and expression of the norA gene for fluoroquinolone resistance in Staphylococcus aureus. Ubukata K, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1535–9

Restriction maps of the regions coding for methicillin and tobramycin resistances on chromosomal DNA in methicillin-resistant staphylococci. Ubukata K, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1624–6

Ornithine decarboxylating strains of Klebsiella pneumoniae demonstrated by DNA-DNA hybridization. Lindh E, et al. **APMIS** 1990 Apr;98(4):358–62

Antimicrobial susceptibility of Acinetobacter strains identified by DNA-DNA hybridization. Tjernberg I. **APMIS** 1990 Apr;98(4):320–6

Two Bacillus beta-mannanases having different COOH termini are produced in Escherichia coli carrying pMAH5. Akino T, et al. **Appl Environ Microbiol** 1989 Dec; 55(12):3178–83

Stereospecific production of the herbicide phosphinothricin (glufosinate) by transamination: cloning, characterization, and overexpression of the gene encoding a phosphinothricin-specific transaminase from Escherichia coli. Bartsch K, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):7–12

Distribution of alginate gene sequences in the Pseudomonas rRNA homology group I-Azomonas-Azotobacter lineage of superfamily B procaryotes. Fialho AM, et al. **Appl Environ Microbiol** 1990 Feb;56(2):436–43

Efficient DNA transformation of Bradyrhizobium japonicum by electroporation. Hattermann DR, et al. **Appl Environ Microbiol** 1990 Apr;56(4):833–6

A synthetic oligonucleotide probe and a cloned polynucleotide probe based on the yopA gene for detection and enumeration of virulent Yersinia enterocolitica. Kapperud G, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):17–23

Isolation of a single-stranded plasmid from Clostridium acetobutylicum NCIB 6444. Kim AY, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1725–8

DNA hybridization to compare species compositions of natural bacterioplankton assemblages. Lee S, et al. **Appl Environ Microbiol** 1990 Mar;56(3):739–46

Transduction of linked chromosomal genes between Pseudomonas aeruginosa strains during incubation in situ in a freshwater habitat. Saye DJ, et al. **Appl Environ Microbiol** 1990 Jan;56(1):140–5

Development of enterobacterium-specific oligonucleotide probes based on the surface-exposed regions of outer membrane proteins. Spierings G, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3250–2

Comparison of phenotypic diversity and DNA heterogeneity in a population of soil bacteria. Torsvik V, et al. **Appl Environ Microbiol** 1990 Mar;56(3):776–81

High diversity in DNA of soil bacteria. Torsvik V, et al. **Appl Environ Microbiol** 1990 Mar;56(3):782–7

Complete nucleotide sequences of seven eubacterial genes coding for the elongation factor Tu: functional, structural and phylogenetic evaluations. Ludwig W, et al. **Arch Microbiol** 1990;153(3):241–7

Nucleotide sequence of the Vibrio alginolyticus glnA region. Maharaj R, et al. **Arch Microbiol** 1989;152(6):542–9

Molecular cloning and expression of a proteinase gene from Lactococcus lactis subsp. cremoris H2 and construction of a new lactococcal vector pFX1. Xu FF, et al. **Arch Microbiol** 1990;154(1):99–104

Molecular mechanisms of replicational fidelity in Escherichia coli. Maki H, et al. **Basic Life Sci** 1990;52:299–308

Polymerase chain reaction (PCR) amplification with a single specific primer. Kalman M, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):504–6

Expression and purification of a truncated recombinant streptococcal protein G. Goward CR, et al. **Biochem J** 1990 Apr 1;267(1):171–7

Expression of cDNAs encoding wild-type and mutant neuromodulins in Escherichia coli: comparison with the native protein from bovine brain. Au DC, et al. **Biochemistry** 1989 Oct 3;28(20):8142–8

Site-directed mutagenesis of the T4 endonuclease V gene: the role of arginine-3 in the target search. Dowd DR, et al. **Biochemistry** 1989 Oct 31;28(22):8699–705

A complete deletion mutant of the Escherichia coli dnaKdnaJ operon. Ohki R, et al. **Biochim Biophys Acta** 1989 Sep 21; 1009(1):94–8

Efficient electrotransformation of Enterococcus hirae with a new Enterococcus-Escherichia coli shuttle vector. Solioz M, et al. **Biochimie** 1990 Apr;72(4):279–83

Multiple cloning site template for use in sequencing of plasmid clones. Carmack CE. **Biotechniques** 1990 Jul; 9(1):45–6

Comparison of various competent cell preparation methods for high efficiency DNA transformation. Liu HY, et al. **Biotechniques** 1990 Jan;8(1):21, 24–5

Quick transformation in Salmonella typhimurium LT2. Ryu J, et al. **Biotechniques** 1990 Jan;8(1):43–5 (9 ref.)

Nucleotide sequence of the murE gene of Escherichia coli. Tao JS, et al. **Can J Microbiol** 1989 Nov;35(11):1051–4

Hybridization studies with a DNA probe derived from the virulence region of the 60 Mdal plasmid of Salmonella typhimurium. Poppe C, et al. **Can J Vet Res** 1989 Oct; 53(4):378–84

Induction of specific frameshift and base substitution events by benzo[a]pyrene diol epoxide in excision-repair-deficient Escherichia coli. Bernelot-Moens C, et al. **Carcinogenesis** 1990 May;11(5):781–5

N-ethyl-N-nitrosourea induces A:T to C:G transversion mutations as well as transition mutations in SOS-induced Escherichia coli. Eckert KA, et al. **Carcinogenesis** 1989 Dec;10(12):2261–7

A mechanism of formation of a persistent hybrid between elongating RNA and template DNA. Masukata H, et al. **Cell** 1990 Jul 27;62(2):331–8

Synthetic curved DNA sequences can act as transcriptional activators in Escherichia coli. Bracco L, et al. **EMBO J** 1989 Dec 20;8(13):4289–96

Strand separation required for initiation of replication at the chromosomal origin of E.coli is facilitated by a distant RNA--DNA hybrid. Skarstad K, et al. **EMBO J** 1990 Jul; 9(7):2341–8

Cluster of point mutations predetermined by a quasipalindromic nucleotide sequence in plasmid pBR322 DNA. Salganik RI, et al. **FEBS Lett** 1990 Feb 12; 261(1):28–30

Transformation of Staphylococcus epidermidis and other staphylococcal species with plasmid DNA by electroporation. Augustin J, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):203–7

Rapid determination of bacterial ribosomal RNA sequences by direct sequencing of enzymatically amplified DNA. Böttger EC. **FEMS Microbiol Lett** 1989 Nov;53(1–2):171–6

DNA sequence homology between attB-related sites of Corynebacterium diphtheriae, Corynebacterium ulcerans, Corynebacterium glutamicum, and the attP site of gamma-corynephage. Cianciotto N, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):299–301

Plasmid profiles and genomic DNA restriction endonuclease patterns of 30 independent Staphylococcus lugdunensis strains. Etienne J, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1–2):93–7

Evidence for a DNA inversion system in Bordetella pertussis. Foxall PA, et al. **FEMS Microbiol Lett** 1990 May; 57(1–2):1–6

Electroporation induced transformation of Bacteroides ruminicola and Bacteroides uniformis by plasmid DNA. Thomson AM, et al. **FEMS Microbiol Lett** 1989 Oct 1; 52(1–2):101–4

Comparative study of the symbiotic plasmid DNA in free living bacteria and bacteroids of Rhizobium leguminosarum. Vierny C, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):15–19

Chlamydia trachomatis 60 kDa cysteine rich outer membrane protein: sequence homology between trachoma and LGV biovars. Watson MW, et al. **FEMS Microbiol Lett** 1989 Dec;53(3):293–7

Cloning and restriction analysis of DNA conferring new quinolone antimicrobial agent resistance from Staphylococcus aureus and other coagulase–negative Staphylococcus species. Yamamoto T, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):335–9

Recognition of nucleotide sequences at the Escherichia coli galactose operon P1 promoter by RNA polymerase. Chan B, et al. **Gene** 1989 Dec 14;84(2):227–36

The nature of an intragenic suppressor of the Escherichia coli dnaA508 temperature–sensitive mutation. Eberle H, et al. **Gene** 1989 Dec 14;84(2):237–45

Analysis and nucleotide sequence of an origin of DNA replication in Acinetobacter calcoaceticus and its use for Escherichia coli shuttle plasmids. Hunger M, et al. **Gene** 1990 Mar 1;87(1):45–51

Bending of DNA by gene–regulatory proteins: construction and use of a DNA bending vector. Kim J, et al. **Gene** 1989 Dec 21;85(1):15–23

Analysis of the promoter region of the melanin locus from Streptomyces antibioticus. Leu WM, et al. **Gene** 1989 Dec 14;84(2):267–77

Nucleotide sequence of Streptomyces fradiae transposable element Tn4556: a class–II transposon related to Tn3. Siemieniak DR, et al. **Gene** 1990 Jan 31;86(1):1–9

Use of pulsed field gel electrophoresis and transposon mutagenesis to estimate the minimal number of genes required for motility in Caulobacter crescentus. Ely B, et al. **Genetics** 1989 Dec;123(4):649–54

Molecular cloning and DNA sequence analysis of the 37–kilodalton endoflagellar sheath protein gene of Treponema pallidum. Isaacs RD, et al. **Infect Immun** 1989 Nov;57(11):3403–11

Transcriptional mapping and nucleotide sequence of the Listeria monocytogenes hlyA region reveal structural features that may be involved in regulation. Mengaud J, et al. **Infect Immun** 1989 Dec;57(12):3695–701

DNA homology of surface protein antigen A gene in mutans streptococci. Abiko Y, et al. **Int J Biochem** 1989; 21(9):1047–51

An ordinary mortal's guide to the molecular biology of mycobacteria. Bloom BR. **Int J Lepr Other Mycobact Dis** 1990 Jun;58(2):365–75 (7 ref.)

Identification of ice nucleation active (INA+) bacteria belonging to Pseudomonas strains. Cirvilleri G, et al. **Ital J Biochem** 1990 May–Jun;39(3):162A–164A

Transduction of plasmid DNA in macrolide producing streptomycetes. McHenney MA, et al. **J Antibiot (Tokyo)** 1989 Nov;42(11):1725–7

Characterisation and molecular cloning of the novel macrolide–streptogramin B resistance determinant from Staphylococcus epidermidis. Ross JI, et al. **J Antimicrob Chemother** 1989 Dec;24(6):851–62

Methylation of GATC sites is required for precise timing between rounds of DNA replication in Escherichia coli. Bakker A, et al. **J Bacteriol** 1989 Oct;171(10):5738–42

DNA sequence and translational product of a new nodulation–regulatory locus: syrM has sequence similarity to NodD proteins. Barnett MJ, et al. **J Bacteriol** 1990 Jul; 172(7):3695–700

Use of pulsed–field agarose gel electrophoresis to size genomes of Campylobacter species and to construct a SalI map of Campylobacter jejuni UA580. Chang N, et al. **J Bacteriol** 1990 Sep;172(9):5211–7

Characterization of a gene involved in histidine biosynthesis in Halobacterium (Haloferax) volcanii: isolation and rapid mapping by transformation of an auxotroph with cosmid DNA. Conover RK, et al. **J Bacteriol** 1990 Jun; 172(6):3244–9

DNA sequences and characterization of four early genes of the tryptophan pathway in Pseudomonas aeruginosa. Essar DW, et al. **J Bacteriol** 1990 Feb;172(2):853–66

Nucleotide sequence and transcription of the right early region of bacteriophage PRD1. Gerendasy D, et al. **J Bacteriol** 1990 Apr;172(4):1889–98

Organization of the replication control region of plasmid ColIb–P9. Hama C, et al. **J Bacteriol** 1990 Apr; 172(4):1983–91

DNA sequences of genes encoding Acinetobacter calcoaceticus protocatechuate 3,4–dioxygenase: evidence indicating shuffling of genes and of DNA sequences within genes during their evolutionary divergence. Hartnett C, et al. **J Bacteriol** 1990 Feb;172(2):956–66

Cloning and analysis of a 35.3–kilobase DNA region involved in exopolysaccharide production by Xanthomonas campestris pv. campestris. Hötte B, et al. **J Bacteriol** 1990 May;172(5):2804–7

Gene replacement and expression of foreign DNA in mycobacteria. Husson RN, et al. **J Bacteriol** 1990 Feb; 172(2):519–24

Characterization of chromosomal DNA amplifications with associated tetracycline resistance in Bacillus subtilis. Ives CL, et al. **J Bacteriol** 1990 Sep;172(9):4936–44

Restriction fragment length polymorphism analysis of Rhizobium galegae strains. Kaijalainen S, et al. **J Bacteriol** 1989 Oct;171(10):5561–6

DNA sequence and expression analysis of algP and algQ, components of the multigene system transcriptionally regulating mucoidy in Pseudomonas aeruginosa: algP contains multiple direct repeats. Konyecsni WM, et al. **J Bacteriol** 1990 May;172(5):2511–20

Methyl–directed repair of frameshift heteroduplexes in cell extracts from Escherichia coli. Learn BA, et al. **J Bacteriol** 1989 Dec;171(12):6473–81

DNA sequence of folate biosynthesis gene sulD, encoding hydroxymethyldihydropterin pyrophosphokinase in Streptococcus pneumoniae, and characterization of the enzyme. Lopez P, et al. **J Bacteriol** 1990 Sep;172(9):4766–74

Shuttle mutagenesis of Neisseria gonorrhoeae: pilin null mutations lower DNA transformation competence. Seifert HS, et al. **J Bacteriol** 1990 Jan;172(1):40–6

The region of a Bacteroides conjugal chromosomal tetracycline resistance element which is responsible for production of plasmidlike forms from unlinked chromosomal DNA might also be involved in transfer of the element. Stevens AM, et al. **J Bacteriol** 1990 Aug; 172(8):4271–9

DNA sequence of a Fibrobacter succinogenes mixed–linkage beta–glucanase (1,3–1,4–beta–D–glucan 4–glucanohydrolase) gene. Teather RM, et al. **J Bacteriol** 1990 Jul;172(7):3837–41

Cloning of Salmonella typhimurium DNA encoding mutagenic DNA repair. Thomas SM, et al. **J Bacteriol** 1989 Nov;171(11):5776–82

The Agrobacterium tumefaciens virC1 gene product binds to overdrive, a T–DNA transfer enhancer. Toro N, et al. **J Bacteriol** 1989 Dec;171(12):6845–9

Regulatory elements within the agropine synthase promoter of T–DNA. Bandyopadhyay RS, et al. **J Biol Chem** 1989 Nov 15;264(32):19399–406

Molecular cloning and DNA sequence analysis of Escherichia coli topB, the gene encoding topoisomerase III. DiGate RJ, et al. **J Biol Chem** 1989 Oct 25; 264(30):17924–30

Transcription pausing by Escherichia coli RNA polymerase is modulated by downstream DNA sequences. Lee DN, et al. **J Biol Chem** 1990 Sep 5;265(25):15145–53

Isolation of a gene that encodes a new retinal protein, archaerhodopsin, from Halobacterium sp. aus–1. Sugiyama Y, et al. **J Biol Chem** 1989 Dec 15;264(35):20859–62

Correction: characterization of the virB operon from Agrobacterium tumefaciens Ti plasmid. Ward JE, et al. **J Biol Chem** 1990 Mar 15;265(8):4768

Characterization of Mycobacterium paratuberculosis and organisms of the Mycobacterium avium complex by restriction polymorphism of the rRNA gene region. Chiodini RJ. **J Clin Microbiol** 1990 Mar;28(3):489–94

Chromosomal DNA, iron–transport systems, outer membrane proteins, and enterotoxin (heat labile) production in Salmonella typhi strains. Faundez G, et al. **J Clin Microbiol** 1990 May;28(5):894–7

Diversity and stability of restriction enzyme profiles of plasmid DNA from methicillin–resistant Staphylococcus aureus. Zuccarelli AJ, et al. **J Clin Microbiol** 1990 Jan; 28(1):97–102

Nucleic acid relatedness studies on the genus Carnobacterium and related taxa [published erratum appears in J Gen Microbiol 1989 Aug;135(Pt 8):2345] Champonier MC, et al. **J Gen Microbiol** 1989 May;135 (Pt 5):1391–4

Identification of DNA regions homologous to nitrogen fixation genes nifE, nifUS and fixABC in Azospirillum brasilense Sp7. Galimand M, et al. **J Gen Microbiol** 1989 May;135 (Pt 5):1047–59

Isolation of plasmid DNA sequences that complement Rhodobacter sphaeroides mutants deficient in the capacity for CO2–dependent growth. Rainey AM, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1699–713

Specific Neisseria gonorrhoeae DNA–probes derived from ribosomal RNA. Rossau R, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1735–45

DNA–DNA hybridization studies and phenotypic characteristics of strains within the 'Streptococcus milleri group'. Whiley RA, et al. **J Gen Microbiol** 1989 Oct;135 (Pt 10):2623–33

Protoplast transformation of Bacillus stearothermophilus NUB36 by plasmid DNA. Wu LJ, et al. **J Gen Microbiol** 1989 May;135 (Pt 5):1315–24

Polymerase chain reaction amplification of a repetitive DNA sequence specific for Mycobacterium tuberculosis. Eisenach KD, et al. **J Infect Dis** 1990 May;161(5):977–81

Chromosomal DNA fingerprinting—a new method of species and strain identification applicable to microbial pathogens. Owen RJ. **J Med Microbiol** 1989 Oct;30(2):89–99 (53 ref.)

DNA sequence analysis of mutations induced by N–2–acetylamino–7–iodofluorene in plasmid pBR322 in Escherichia coli. Hoffmann GR, et al. **J Mol Biol** 1990 May 20;213(2):239–46

RecA protein reinitiates strand exchange on isolated protein–free DNA intermediates. An ADP–resistant process. Rao BJ, et al. **J Mol Biol** 1990 Jun 20; 213(4):789–809

Nature of the SOS–inducing signal in Escherichia coli. The involvement of DNA replication. Sassanfar M, et al. **J Mol Biol** 1990 Mar 5;212(1):79–96

Expression of Mycoplasma pulmonis antigens in Escherichia coli. Kunita S, et al. **Jikken Dobutsu** 1989 Jul;38(3):207–13

Genomic DNA analysis of rodent mycoplasmas. Kunita S, et al. **Jikken Dobutsu** 1989 Jul;38(3):201–6

Distribution of gonococcal lipopolysaccharide biosynthesis genes among strains of Neisseria gonorrhoeae and other neisserial species. Palermo–Dilts DA, et al. **Microb Pathog** 1990 Mar;8(3):227–33

Invertrons, a class of structurally and functionally related genetic elements that includes linear DNA plasmids, transposable elements, and genomes of adeno–type viruses. Sakaguchi K. **Microbiol Rev** 1990 Mar;54(1):66–74 (72 ref.)

Nucleotide excision repair in Escherichia coli. Van Houten B. **Microbiol Rev** 1990 Mar;54(1):18–51 (285 ref.)

Genetic instability in streptomycetes. Cullum J, et al. **Microbiol Sci** 1988 Aug;5(8):233–5 (15 ref.)

Gene conversion in Streptococcus pneumoniae. Sicard AM. **Microbiologia** 1987 Feb;3(1):5–12 (57 ref.)

Genetic transformation in some cariogenic Streptococcus milleri. Jacob AE, et al. **Microbios** 1989;60(244–245):167–75

Cloning and expression of Thiobacillus versutus cryptic plasmid pTAV–1 DNA in Escherichia coli. Jagusztyn–Krynicka EK, et al. **Microbios** 1990; 61(246):49–61

Transformation of mouse BALB 3T3 cells by enterobacterial plasmid misrepair gene mucAB. Tosu M, et al. **Mol Cell Biol** 1990 Oct;10(10):5359–64

Detection of Borrelia burgdorferi DNA by the polymerase chain reaction. Nielsen SL, et al. **Mol Cell Probes** 1990 Feb;4(1):73–9

Organization of Methanobacterium thermoautotrophicum bacteriophage psi M1 DNA. Jordan M, et al. **Mol Gen Genet** 1989 Dec;220(1):161–4

The Escherichia coli minB mutation resembles gyrB in defective nucleoid segregation and decreased negative supercoiling of plasmids. Mulder E, et al. **Mol Gen Genet** 1990 Mar;221(1):87–93

Identification and characterization of a defective SSV1 genome integrated into a tRNA gene in the archaebacterium Sulfolobus sp. B12. Reiter WD, et al. **Mol Gen Genet** 1990 Mar;221(1):65–71

A.T——C.G transversions and their prevention by the Escherichia coli mutT and mutHLS pathways. Schaaper RM, et al. **Mol Gen Genet** 1989 Oct;219(1–2):256–62

A functional analysis of T–DNA gene 6b: the fine tuning of cytokinin effects on shoot development. Spanier K, et al. **Mol Gen Genet** 1989 Oct;219(1–2):209–16

Conserved function in Nicotiana tabacum of a single Drosophila hsp70 promoter heat shock element when fused to a minimal T–DNA promoter. Wing D, et al. **Mol Gen Genet** 1989 Oct;219(1–2):9–16

Detection and identification of mycobacteria by amplification of mycobacterial DNA. Hance AJ, et al. **Mol Microbiol** 1989 Jul;3(7):843–9

Tn7 inserts in both orientations at a single chromosomal location and apparently forms cointegrates in Pasteurella multocida. Nnalue NA. **Mol Microbiol** 1990 Jan;4(1):107–17

Analysis of spontaneous and psoralen–induced Salmonella typhimurium hisG46 revertants by oligodeoxyribonucleotide colony hybridization: use of psoralens to cross–link probes to target sequences. Cebula TA, et al. **Mutat Res** 1990 Mar;229(1):79–87

The light–dependent cytotoxicity of benzo[a]pyrene: effect on human erythrocytes, Escherichia coli cells, and Haemophilus influenzae transforming DNA. Kagan J, et al. **Mutat Res** 1989 Oct;216(5):231–42

A constitutive O6–methylguanine–DNA methyltransferase of Rhizobium meliloti. Kaufman A, et al. **Mutat Res** 1990 May;235(3):165–9

Studies on Tn10 transposition and excision in DNA–repair mutants of Salmonella typhimurium. Lorenzo C, et al. **Mutat Res** 1990 Sep;232(1):99–104

Application of a new method of pattern recognition in DNA sequence analysis: a study of E. coli promoters. Alexandrov NN, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1847–52

Functional implications related to the gene structure of the elongation factor EF–Tu from Halobacterium marismortui. Baldacci G, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):507–11

The complete AvrII restriction map of the Escherichia coli genome and comparisons of several laboratory strains. Daniels DL. **Nucleic Acids Res** 1990 May 11;18(9):2649–51

Structure–function relationship of arginyl–tRNA synthetase from Escherichia coli: isolation and characterization of the argS mutation MA5002. Eriani G, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1475–9

DNA sequence of a small plasmid from Halobacterium strain GN101. Hall MJ, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10501

An F factor based cloning system for large DNA fragments. Hosoda F, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):3863–9

Nucleotide sequence involving murD and an open reading frame ORF–Y spacing murF and ftsW in Escherichia coli. Ikeda M, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1058

High–efficiency electro–transformation of Escherichia coli with DNA from ligation mixtures. Jacobs M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1653

Compilation of DNA sequences of Escherichia coli (update 1990). Kröger M, et al. **Nucleic Acids Res** 1990 Apr 25; 18 Suppl:2549–87

DNA sequence of a beta–glucosidase from Ruminococcus albus. Ohmiya K, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):671

Alignment of Escherichia coli K12 DNA sequences to a genomic restriction map. Rudd KE, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):313–21

Identification of the metalloregulatory element of the

plasmid-encoded arsenical resistance operon. San Francisco MJ, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):619-24

A rapid semi-automated microtiter plate method for analysis and sequencing by PCR from bacterial stocks. Schofield JP, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9498

Nucleotide and deduced amino acid sequence of Mycobacterium leprae manganese superoxide dismutase. Thangaraj HS, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8378

Similarity of minus origins of replication and flanking open reading frames of plasmids pUB110, pTB913 and pMV158. van der Lelie D, et al. **Nucleic Acids Res** 1989 Sep 25; 17(18):7283-94

Sequence limits of DNA strands in the arrest replication fork at the Bacillus subtilis chromosome terminus. Williams NK, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9947-56

DNA methylation: evolution of a bacterial immune function into a regulator of gene expression and genome structure in higher eukaryotes. Bestor TH.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):179-87 (32 ref.)

Identification and DNA sequencing of a new plasmid (pPST1) in Pseudomonas stutzeri MO-19. Fujita M, et al. **Plasmid** 1989 Nov;22(3):271-4

The structure of a partial duplication in the integron of plasmid pDGO100. Hall RM, et al. **Plasmid** 1990 Jan; 23(1):76-9

Molecular cloning and DNA sequence analysis of a diphtheria tox iron-dependent regulatory element (dtxR) from Corynebacterium diphtheriae. Boyd J, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(15):5968-72

A gene required for transfer of T-DNA to plants encodes an ATPase with autophosphorylating activity. Christie PJ, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9677-81

Z-DNA-forming sequences are spontaneous deletion hot spots. Freund AM, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7465-9

High-frequency T-DNA-mediated gene tagging in plants. Koncz C, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8467-71

Glycine tRNA mutants with normal anticodon loop size cause -1 frameshifting. O'Mahony DJ, et al.
Proc Natl Acad Sci U S A 1989 Oct;86(20):7979-83

Site-specific DNA recombination system Min of plasmid p15B: a cluster of overlapping invertible DNA segments. Sandmeier H, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):1109-13

DNA-looping and enhancer activity: association between DNA-bound NtrC activator and RNA polymerase at the bacterial glnA promoter. Su W, et al.
Proc Natl Acad Sci U S A 1990 Jul;87(14):5504-8

General colorimetric method for DNA diagnostics allowing direct solid-phase genomic sequencing of the positive samples. Wahlberg J, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6569-73

Pseudomonas chromosomal replication origins: a bacterial class distinct from Escherichia coli-type origins. Yee TW, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1278-82

Enhanced resolution of DNA restriction fragments: a procedure by two-dimensional electrophoresis and double-labeling. Yi M, et al.
Proc Natl Acad Sci U S A 1990 May;87(10):3919-23

Z-forming DNA sequences are deletion hot-spots. Freund AM, et al. **Prog Clin Biol Res** 1990;340A:41-9

Structure-function relationships in Escherichia coli promoter DNA. Horwitz MS, et al.
Prog Nucleic Acid Res Mol Biol 1990;38:137-64 (228 ref.)

Cloning of Ureaplasma urealyticum DNA sequences showing genetic homology with urease genes from gram-negative bacteria. Blanchard A, et al. **Res Microbiol** 1989 May-Jun; 140(4-5):281-90

rRNA gene restriction patterns of Legionella species: a molecular identification system. Grimont F, et al.
Res Microbiol 1989 Nov-Dec;140(9):615-26

Nucleotide sequence of the plasmid-borne virulence gene mkfB from Salmonella typhimurium. Norel F, et al.
Res Microbiol 1989 Sep;140(7):455-7

The Hin invertasome: protein-mediated joining of distant recombination sites at the enhancer. Heichman KA, et al. **Science** 1990 Aug 3;249(4968):511-7

[Replication characteristics of plasmids and their dependence of recA gene for the initiation of Escherichia coli chromosome replication in the integrated state] Mao YM, et al. **I Chuan Hsueh Pao** 1990;17(1):53-62 (Eng. Abstr.) **(Chi)**

[Dependence of the recA gene for the replication of the bacterial chromosome initiated by the integrated F' plasmid in Escherichia coli] Mao YM, et al.
I Chuan Hsueh Pao 1989;16(1):56-66 (Eng. Abstr.) **(Chi)**

[Structural changes in the composition of amplifying sequence AUD-Sr1 of Streptomyces rimosus after cloning into Escherichia coli] Grigor'ev AE, et al.
Antibiot Khimioter 1990 May;35(5):7-10 (Eng. Abstr.) **(Rus)**

[Transfer of various markers in Lactobacilli during transformation of plasmid DNA and joint cultivation] Tiurin MV, et al. **Antibiot Khimioter** 1990 May;35(5):16-21 (Eng. Abstr.) **(Rus)**

[Study of the structure of amplifying sequence of Streptomyces antibioticus] Ukhabotina LS, et al.
Antibiot Khimioter 1990 Jun;35(6):7-12 (Eng. Abstr.) **(Rus)**

[The SOS-like reactions of Pseudomonas putida] Broun II, et al. **Biol Nauki** 1990;(3):124-9 (Eng. Abstr.) **(Rus)**

[Formation of covalently-bound circular structures of transposon TnV (Tn5-Rep pSC101) during transposition] Borovok IA. **Dokl Akad Nauk SSSR** 1989;309(3):724-8 **(Rus)**

[Mapping the functional segment of the initiation of replication in the pE194 Staphylococcus aureus plasmid in Bacillus subtilis cells] Khasanov FK.
Dokl Akad Nauk SSSR 1989 Sep-Oct;308(1):208-11 **(Rus)**

[The role of transposons in replication: Tn5 suppresses ts-mutation for plasmid RP1 replication in Escherichia coli cells] Baumanis GE, et al. **Genetika** 1990 May;26(5):833-41 (Eng. Abstr.) **(Rus)**

[Genomic fingerprinting: new possibilities in determining the species identity of Brucella] Ryskov AP, et al. **Genetika** 1990 Jan;26(1):130-3 (Eng. Abstr.) **(Rus)**

[Alu-like sequences in the regions of replication initiation in plasmids p15A and R6K] Korotkov EV.
Izv Akad Nauk SSSR [Biol] 1990 May-Jun;(3):359-65 (Eng. Abstr.) **(Rus)**

[Structuro-functional organization of segments of Co1A plasmid DNA, determining its stable inheritance] Kolot MN, et al. **Mol Biol (Mosk)** 1989 Jul-Aug;23(4):1013-21 (Eng. Abstr.) **(Rus)**

[Structural-functional organization of the par region of the ColN plasmid] Kolot MN. **Mol Biol (Mosk)** 1990 Mar-Apr; 24(2):495-500 (Eng. Abstr.) **(Rus)**

[Cloning and expression of the gene for thermostable pullulanase from Clostridium thermohydrosulfuricum in Escherichia coli] Kozlov DG, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):736-43 (Eng. Abstr.) **(Rus)**

[Unusual structure of the regulatory region of the riboflavin biosynthesis operon in Bacillus subtilis] Mironov VN, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):256-61 (Eng. Abstr.) **(Rus)**

[The effect of supercoiling of DNA from colicinogenic plasmids on the expression of col, imm and lys genes] Panchenko IuA, et al. **Mol Biol (Mosk)** 1989 Sep-Oct; 23(5):1340-9 (Eng. Abstr.) **(Rus)**

[Natural transformation in bacteria] Kosovich PV, et al.
Mol Gen Mikrobiol Virusol 1990 Jan;(1):3-6 (31 ref.) (Eng. Abstr.) **(Rus)**

[Specific DNA probe for detecting Legionella pneumophila] Nagaev IG, et al. **Mol Gen Mikrobiol Virusol** 1990 May; (5):8-12 (Eng. Abstr.) **(Rus)**

[Cryotransformation of Bacillus anthracis by the DNA of pUB110 plasmid] Puzanova OB, et al.
Mol Gen Mikrobiol Virusol 1989 Dec;(12):26-30 (Eng. Abstr.) **(Rus)**

[Isolation and characteristics of a recombinant pOV13 plasmid as a vector for DNA cloning in a broad range of bacterial hosts] Zakharenko VI, et al.
Mol Gen Mikrobiol Virusol 1989 Dec;(12):33-8 (Eng. Abstr.) **(Rus)**

[The use of DNA fingerprint analysis for the differentiation of populations of toxigenic Corynebacterium diphtheriae] Bobkova MR, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Jul;(7):28-30 (Eng. Abstr.) **(Rus)**

[The transformation of legionellae by plasmid DNA] Marakusha BI, et al.
Zh Mikrobiol Epidemiol Immunobiol 1990 Mar;(3):20-3 (Eng. Abstr.) **(Rus)**

[The rickettsial genome studied by DNA restriction analysis] Rydkina EB, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Mar;(3):85-9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Comparison of DNA:DNA homology and enzymatic activity between Pasteurella haemolytica and related species. Bingham DP, et al. **Am J Vet Res** 1990 Aug;51(8):1161-6

DNA restriction patterns and DNA-DNA solution hybridization studies of Frankia isolates from Myrica pennsylvanica (bayberry). Bloom RA, et al.
Appl Environ Microbiol 1989 Sep;55(9):2155-60

Physiological, chemical, morphological, and plant infectivity characteristics of Frankia isolates from Myrica pennsylvanica: correlation to DNA restriction patterns. Bloom RA, et al. **Appl Environ Microbiol** 1989 Sep; 55(9):2161-6

Purification of DNA for bacterial productivity estimates. Burnison BK, et al. **Appl Environ Microbiol** 1990 Feb; 56(2):362-5

Polymerase chain reaction for detection of invasive Shigella flexneri in food. Lampel KA, et al.
Appl Environ Microbiol 1990 Jun;56(6):1536-40

Detection of plasmid DNA from all Chlamydia trachomatis serovars with a two-step polymerase chain reaction. Welch D, et al. **Appl Environ Microbiol** 1990 Aug;56(8):2494-8

A one step, quick step, mini prep. Alter DC, et al.
Biotechniques 1989 May;7(5):456, 458

An improvement of a rapid method using Qiagen columns to purify plasmids. Attal J, et al. **Biotechniques** 1990 Mar; 8(3):269-71

Large-scale isolation of plasmid DNA using high speed centrifugation methods. Griffith OM. **Biotechniques** 1988 Sep;6(8):725-7

Large-scale isolation of plasmid DNA using cetyltrimethylammonium bromide. Ishaq M, et al.
Biotechniques 1990 Jul;9(1):19-20, 22, 24

Comment of the use of Qiagen columns to purify plasmids. Meyer E. **Biotechniques** 1990 Jul;9(1):39

A procedure for the preparation of RNA-free plasmid DNA. Sadhu C, et al. **Biotechniques** 1988 Jan;6(1):20-1

A rapid and cost-effective method for preparing genomic DNA from gram-negative bacteria in agarose plugs for pulsed-field gel electrophoresis. Sobral BW, et al.
Biotechniques 1989 Oct;7(9):938

An economical large-scale procedure to purify Micrococcus plasmid DNA. Verma V, et al. **Biotechniques** 1988 Nov-Dec;6(10):936, 938, 940

Rapid purification of plasmid DNA following acid precipitation of bacterial proteins. Ziai MR, et al.
Biotechniques 1989 Feb;7(2):147

An improved method for the rapid isolation of chromosomal DNA from Mycoplasma spp. Hempstead PG.
Can J Microbiol 1990 Jan;36(1):59-61

Genome size of Myxococcus xanthus determined by pulsed-field gel electrophoresis. Chen H, et al.
J Bacteriol 1990 Aug;172(8):4206-13

Transposition in Shigella dysenteriae: isolation and analysis of IS911, a new member of the IS3 group of insertion sequences. Prère MF, et al. **J Bacteriol** 1990 Jul; 172(7):4090-9

A rapid chemiluminescent DNA hybridization assay for the detection of Chlamydia trachomatis. Clyne JM, et al.
J Biolumin Chemilumin 1989 Jul;4(1):357-66

Evaluation of a rapid method of extracting DNA from stool samples for use in hybridization assays [published erratum appears in J Clin Microbiol 1990 Feb;28(2):404] Coll P, et al. **J Clin Microbiol** 1989 Oct;27(10):2245-8

"Campylobacter upsaliensis" isolated from cats as identified by DNA relatedness and biochemical features. Fox JG, et al. **J Clin Microbiol** 1989 Oct;27(10):2376-8

Application of different chromosomal DNA restriction digest fingerprints to specific and subspecific identification of Campylobacter isolates. Owen RJ, et al.
J Clin Microbiol 1989 Oct;27(10):2338-43

Analysis of separate isolates of Bordetella pertussis repeated DNA sequences. McPheat WL, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1515-20

Determination of guanine-plus-cytosine content of bacterial DNA by dual-laser flow cytometry. Sanders CA, et al.
J Gen Microbiol 1990 Feb;136 (Pt 2):359-65

Purification and properties of RhaR, the positive regulator of the L-rhamnose operons of Escherichia coli. Tobin JF, et al. **J Mol Biol** 1990 Jan 5;211(1):75-89

DNA homologies shared among E. corrodens isolates and other corroding bacilli from the oral cavity. Chen CK, et al. **J Periodont Res** 1990 Mar;25(2):106-12

Sensitive detection of Mycoplasma pulmonis by using the polymerase chain reaction. Kunita S, et al.
Jikken Dobutsu 1990 Jan;39(1):103-7

Specific identification of Mycobacterium leprae by the polymerase chain reaction. Hackel C, et al.
Mol Cell Probes 1990 Jun;4(3):205-10

A DNA hybridization test for detection of Bordetella in nasopharyngeal specimens. Reizenstein E, et al.
Mol Cell Probes 1990 Jun;4(3):211-21

A simple and rapid method for the isolation of plasmid and lambda phage DNAs. Bansal OB, et al.
Nucleic Acids Res 1989 Dec 11;17(23):10129

A simple method for the preparation of plasmid and chromosomal E. coli DNA. Grimberg J, et al.
Nucleic Acids Res 1989 Nov 11;17(21):8893

A simple single-step procedure for small-scale preparation of Escherichia coli plasmids. He M, et al.
Nucleic Acids Res 1990 Mar 25;18(6):1660

Human ureaplasmas show diverse genome sizes by pulsed-field electrophoresis. Robertson JA, et al.
Nucleic Acids Res 1990 Mar 25;18(6):1451-5

Linear chromosome of Borrelia burgdorferi. Baril C, et al.
Res Microbiol 1989 Oct;140(8):507-16 (32 ref.)

Detection of Borrelia burgdorferi DNA in museum specimens of Ixodes dammini ticks. Persing DH, et al.
Science 1990 Sep 21;249(4975):1420-3

Selective precipitation of RNA with Mg2+ improves the purification of plasmid DNA. Skovgaard O.
Trends Genet 1990 May;6(5):140

[The selective isolation of cosmid clones by homologous recombination in Escherichia coli—a cosmid clone containing t complex linkage DNA sequence of mouse was isolated] Chai JH. **I Chuan Hsueh Pao** 1990;17(1):38-45 (Eng. Abstr.) **(Chi)**

[Use of a lysoenzyme preparation from Streptomyces recifensis subsp. lyticus 2435 for isolating DNA from staphylococcal cells] Babenko IuS, et al.
Antibiot Khimioter 1990 Mar;35(3):17-20 (Eng. Abstr.) **(Rus)**

[Optimization of the method of isolation of microamounts of plasmid DNA from lactobacilli] Tiurin MV.
Mol Gen Mikrobiol Virusol 1990 Mar;(3):29-31 (Eng. Abstr.) **(Rus)**

METABOLISM

Osmolability of Escherichia coli and modification of [125I]ampicillin-binding by competence induction for uptake of transforming DNA. Fischer E.
Arch Microbiol 1989;153(1):43-6

Discontinuous DNA replication in a lig-7 strain of Escherichia coli is not the result of mismatch repair, nucleotide-excision repair, or the base-excision repair of

DNA uracil. Wang TC, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):685–8
Stimulation by gamma-carboline derivatives (simplified analogues of antitumor ellipticines) of site specific DNA cleavage by calf DNA topoisomerase II. Fossé P, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):669–76
Induction of mammalian topoisomerase II dependent DNA cleavage by nonintercalative flavonoids, genistein and orobol. Yamashita Y, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):737–44
Interaction of the Escherichia coli Gal repressor protein with its DNA operators in vitro. Brenowitz M, et al. **Biochemistry** 1990 Apr 3;29(13):3374–83
DNA distortion accompanies transcriptional activation by the metal-responsive gene-regulatory protein MerR. Frantz B, et al. **Biochemistry** 1990 May 22;29(20):4747–51
Orientation of the putative recognition helix in the DNA-binding domain of Hin recombinase complexed with the hix site. Mack DP, et al. **Biochemistry** 1990 Jul 17; 29(28):6561–7
Importance of minor-groove contacts for recognition of DNA by the binding domain of Hin recombinase. Sluka JP, et al. **Biochemistry** 1990 Jul 17;29(28):6551–61
Repair of pyrimidine dimer ultraviolet light photoproducts by human cell extracts. Wood RD. **Biochemistry** 1989 Oct 17;28(21):8287–92
Lac repressor-operator interaction: DNA length dependence. Khoury AM, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):55–60
Chlamydial DNA is absent from the joints of patients with sexually acquired reactive arthritis. Wordsworth BP, et al. **Br J Rheumatol** 1990 Jun;29(3):208–10
Contribution of DNA methylation and benzylation to N-nitroso-N-benzyl-methylamine-induced mutagenesis in bacteria: effects of rat liver cytochrome P450 isozymes and glutathione transferases. Lin DX, et al. **Carcinogenesis** 1990 Sep;11(9):1653–8
Role of metabolism on the DNA binding of MeIQx in mice and bacteria. Turteltaub KW, et al. **Carcinogenesis** 1990 Jan;11(1):43–9
A calcium flux at the termination of replication triggers cell division in Escherichia coli. Hypothesis. Norris V. **Cell Calcium** 1989 Nov-Dec;10(8):511–7 (53 ref.)
DNA linking potential generated by gyrase. Kozyavkin SA, et al. **Eur J Biochem** 1990 Jul 20;191(1):105–13
DNA uptake in competent Streptococcus pneumoniae requires ATP and is regulated by cytoplasmic pH. Clavé C, et al. **FEMS Microbiol Lett** 1989 Nov;53(1–2):113–8
The effect of the minor groove binding agent DAPI (2-amidino-diphenyl-indole) on DNA-directed enzymes: an attempt to explain inhibition of plasmid expression in Escherichia coli. Parolin C, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):341–6
DNA looping in cellular repression of transcription of the galactose operon. Mandal N, et al. **Genes Dev** 1990 Mar; 4(3):410–8
Cloning and nucleotide sequences of the genes for the subunits of NAD-reducing hydrogenase of Alcaligenes eutrophus H16. Tran-Betcke A, et al. **J Bacteriol** 1990 Jun; 172(6):2920–9
Cytosine methylation enhances Z-DNA formation in vivo. Zacharias W, et al. **J Bacteriol** 1990 Jun;172(6):3278–83
DNA binding properties of purified replication initiator protein (Rep) encoded by plasmid pSC101. Sugiura S, et al. **J Biochem (Tokyo)** 1990 Mar;107(3):369–76
A new DNA binding mode for CAP [published erratum appears in J Biol Chem 1990 May 15;265(14):8346] Hudson JM, et al. **J Biol Chem** 1990 Feb 25;265(6):3219–25
Effects of transcription and translation on gyrase-mediated DNA cleavage in Escherichia coli. Koo HS, et al. **J Biol Chem** 1990 Jul 25;265(21):12300–5
Induced bending of plasmid pLS1 DNA by the plasmid-encoded protein RepA. Pérez-Martín J, et al. **J Biol Chem** 1989 Dec 15;264(35):21334–9
Escherichia coli helicase II (uvrD) protein can completely unwind fully duplex linear and nicked circular DNA. Runyon GT, et al. **J Biol Chem** 1989 Oct 15; 264(29):17502–12
In vitro studies of the initiation of staphylococcal plasmid replication. Specificity of RepD for its origin (oriD) and characterization of the Rep-ori tyrosyl ester intermediate [published erratum appears in J Biol Chem 1990 Jul 25;265(21):12749] Thomas CD, et al. **J Biol Chem** 1990 Apr 5;265(10):5519–30
Fate of the DnaA initiator protein in replication at the origin of the Escherichia coli chromosome in vitro. Yung BY, et al. **J Biol Chem** 1990 Jan 25;265(3):1282–5
The in-vivo occurrence of Z DNA. Haniford DB, et al. **J Biomol Struct Dyn** 1983 Dec;1(3):593–609
DNA breakdown by the 4-quinolones and its significance. Lewin CS, et al. **J Med Microbiol** 1990 Jan;31(1):65–70
Initiation of replication of plasmid pLS1. The initiator protein RepB acts on two distant DNA regions. de la Campa AG, et al. **J Mol Biol** 1990 May 20;213(2):247–62
Biological consequences of a reduction in the non-target DNA scanning capacity of a DNA repair enzyme. Dowd DR, et al. **J Mol Biol** 1989 Aug 20;208(4):701–7
Induction of -2 frameshift mutations within alternating GC sequences by carcinogens that bind to the C8 position of guanine residues: development of a specific mutation assay. Bintz R, et al. **Mol Gen Genet** 1990 May;221(3):331–8
Methylation strongly enhances DNA bending in the replication origin region of the Escherichia coli chromosome. Kimura T, et al. **Mol Gen Genet** 1989 Oct; 219(1–2):69–74
The recB gene product is essential for exonuclease V-dependent DNA degradation in vivo. Brčić-Kostić K, et al. **Mutat Res** 1989 Dec;227(4):247–50
The LexA protein does not bind specifically to the two SOS box-like sequences immediately 5' to the phr gene. Payne NS, et al. **Mutat Res** 1989 Nov;218(3):207–10
Consensus DNA site for the Escherichia coli catabolite gene activator protein (CAP): CAP exhibits a 450-fold higher affinity for the consensus DNA site than for the E. coli lac DNA site. Ebright RH, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10295–305
DNA polymerase I and a protein complex bind specifically to E. coli palindromic unit highly repetitive DNA: implications for bacterial chromosome organization. Gilson E, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3941–52
Methylase-limited partial NotI cleavage for physical mapping of genomic DNA. Hanish J, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3287–91
Interaction of RecA protein with pBR322 DNA modified by N-hydroxy-2-acetylaminofluorene and 4-hydroxyaminoquinoline 1-oxide. Kojima M, et al. **Nucleic Acids Res** 1990 May 11;18(9):2707–14
Archaebacterial reverse gyrase cleavage-site specificity is similar to that of eubacterial DNA topoisomerases I. Kovalsky OI, et al. **Nucleic Acids Res** 1990 May 11; 18(9):2801–5
Covalently bound VirD2 protein of Agrobacterium tumefaciens protects the T-DNA from exonucleolytic degradation. Dürrenberger F, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9154–8
Stable DNA heteroduplex formation catalyzed by the Escherichia coli RecA protein in the absence of ATP hydrolysis. Menetski JP, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):21–5
The carboxyl terminal domain of Escherichia coli DNA topoisomerase I confers higher affinity to DNA. Beran-Steed RK, et al. **Proteins** 1989;6(3):249–58
An NMR-based molecular dynamics simulation of the interaction of the lac repressor headpiece and its operator in aqueous solution. de Vlieg J, et al. **Proteins** 1989; 6(2):104–27
Substrate recognition by the EcoRI endonuclease. Heitman J, et al. **Proteins** 1990;7(2):185–97
Singlet oxygen mediated photobinding of 8-methoxypsoralen to DNA and genotoxicity in E. coli. Beijersbergen van Henegouwen GM, et al. **Z Naturforsch [C]** 1989 Sep-Oct; 44(9–10):819–23
[Effect of salvin on the incorporation of labeled precursors into macromolecular compounds of Staphylococcus aureus 209P] Pavlenko LV, et al. **Antibiot Khimioter** 1989 Aug; 34(8):582–5 (Eng. Abstr.) **(Rus)**
[Membrane potential of E. coli recipient cells determines the rate of linear transport of DNA during conjugation] Berzhinskene IaA, et al. **Biokhimiia** 1989 Sep;54(9):1520–5 (Eng. Abstr.) **(Rus)**
[Level of Hu protein binding with DNA and the Hu/DNA ratio in Escherichia coli cells with various generation periods] Kulyba NP, et al. **Biokhimiia** 1989 Jul; 54(7):1075–81 (Eng. Abstr.) **(Rus)**
[Energy of the transmembrane DNA transfer in bacteria] Sabel'nikov AG. **Mol Gen Mikrobiol Virusol** 1989 Nov; (11):3–13 (74 ref.) (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Role of the DNA/membrane complex in prokaryotic DNA replication. Firshein W. **Annu Rev Microbiol** 1989; 43:89–120 (148 ref.)
A segment of Myxococcus xanthus ops DNA functions as an upstream activation site for tps gene transcription. Kil KS, et al. **J Bacteriol** 1990 Jun;172(6):3081–8
Model-building of Fnr and FixK DNA-binding domains suggests a basis for specific DNA recognition. Cherfils J, et al. **J Mol Recognit** 1989 Nov;2(3):114–21
Osmotic regulation of porin expression: a role for DNA supercoiling. Graeme-Cook KA, et al. **Mol Microbiol** 1989 Sep;3(9):1287–94

RADIATION EFFECTS

Bacterial genes involved in response to near-ultraviolet radiation. Eisenstark A. **Adv Genet** 1989;26:99–147 (242 ref.)
Polymerases and UV mutagenesis in Escherichia coli. Bridges BA, et al. **Genome** 1989;31(2):572–7 (37 ref.)
Lambda-prophage induction in repair-deficient and wild type E. coli strains by gamma-rays and heavy ions. Bonev MN, et al. **Int J Radiat Biol** 1990 May;57(5):993–1005
DNA-replication recovery inhibition and subsequent reinitiation in UV-radiation-damaged E. coli: a strategy for survival. Doudney CO. **Mutat Res** 1990 Mar; 243(3):179–86
Cyclobutane-pyrimidine dimer excision in UV-sensitive CHO mutants and the effect of the human ERCC2 repair gene. Regan JD, et al. **Mutat Res** 1990 May;235(3):157–63
Excision-repair capacity in Streptococcus pneumoniae: cloning and expression of a uvr-like gene. Sicard N, et al. **Mutat Res** 1990 May;235(3):195–201
Repair of UV-damaged incoming plasmid DNA in Saccharomyces cerevisiae. Keszenman-Pereyra D. **Photochem Photobiol** 1990 Mar;51(3):331–42
Photochemistry of DNA using 193 nm excimer laser radiation. Kochevar IE, et al. **Photochem Photobiol** 1990 May;51(5):527–32
Hydroxyl radical quenching agents protect against DNA breakage caused by both 365-nm UVA and by gamma radiation. Peak MJ, et al. **Photochem Photobiol** 1990 Jun; 51(6):649–52
[Repair of a double-stranded gap in plasmid DNA in radiosensitive mutants of Saccharomyces cerevisiae: effectiveness and precision] Glazer VM, et al. **Mol Gen Mikrobiol Virusol** 1989 Sep;(9):14–20 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Electron microscopy mapping of pBR322 DNA curvature. Comparison with theoretical models. Muzard G, et al. **EMBO J** 1990 Apr;9(4):1289–98
Mapping Z-DNA tracts in plasmid DNA using electron microscopy and gold-labeled antibodies. Inman RB, et al. **Gene** 1989 Dec 14;84(2):221–6
Expression of Salmonella typhimurium genes required for invasion is regulated by changes in DNA supercoiling. Galán JE, et al. **Infect Immun** 1990 Jun;58(6):1879–85
The absence of cruciform structures from pAO3 plasmid DNA in vivo. Lyamichev V, et al. **J Biomol Struct Dyn** 1984 Oct;2(2):291–301
Osmotic pressure of DNA solutions and effective diameter of the double helix. Yarmola EG, et al. **J Biomol Struct Dyn** 1985 Feb;2(5):981–93
Intermediates in the formation of the open complex by RNA polymerase holoenzyme containing the sigma factor sigma 32 at the groE promoter. Cowing DW, et al. **J Mol Biol** 1989 Dec 5;210(3):521–30
Electron microscopic approaches to the study of bacterial DNA organization. Meyer J, et al. **Microbiol Sci** 1988 Mar; 5(3):68–73 (45 ref.)
The presence of the region on pBR322 that encodes resistance to tetracycline is responsible for high levels of plasmid DNA knotting in Escherichia coli DNA topoisomerase I deletion mutant. Shishido K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9749–59
Structural features of Borrelia burgdorferi—the Lyme disease spirochete: silver staining for nucleic acids. Garon CF, et al. **Scanning Microsc Suppl** 1989;3:109–15
[Electron microscope study of the plasmid DNA from various strains of Treponema pallidum] Milich MV, et al. **Mol Gen Mikrobiol Virusol** 1989 Nov;(11):28–31 (Eng. Abstr.) **(Rus)**

DNA-BINDING PROTEINS

see related
DNA REPLICATION

A blotting method for monitoring the formation of chemically induced DNA-protein complexes. Cohen MD, et al. **Anal Biochem** 1990 Apr;186(1):1–7
Picogram quantitation of total DNA using DNA-binding proteins in a silicon sensor-based system. Kung VT, et al. **Anal Biochem** 1990 Jun;187(2):220–7
Equilibrium dissociation and unfolding of the Arc repressor dimer. Bowie JU, et al. **Biochemistry** 1989 Sep 5; 28(18):7139–43
Secondary structure of a leucine zipper determined by nuclear magnetic resonance spectroscopy. Oas TG, et al. **Biochemistry** 1990 Mar 27;29(12):2891–4
1H NMR studies of T4 gene 32 protein: effects of zinc removal and reconstitution. Pan T, et al. **Biochemistry** 1989 Oct 31;28(22):8828–32
CD measurements show that fd and IKe gene 5 proteins undergo minimal conformational changes upon binding to poly(rA). Sang BC, et al. **Biochemistry** 1989 Nov 28; 28(24):9502–7
Phenylalanine-to-tyrosine singlet energy transfer in the archaebacterial histone-like protein HTa. Searcy DG, et al. **Biochemistry** 1989 Nov 14;28(23):9058–65
High-resolution structure of an HIV zinc fingerlike domain via a new NMR-based distance geometry approach. Summers MF, et al. **Biochemistry** 1990 Jan 16;29(2):329–40
Zinc coordination, function, and structure of zinc enzymes and other proteins. Vallee BL, et al. **Biochemistry** 1990 Jun 19;29(24):5647–59 (102 ref.)
Alternating zinc-finger motifs in the human male-associated protein ZFY. Weiss MA, et al. **Biochemistry** 1990 Jun 19; 29(24):5660–4
Synergistic activation of transcription by the human estrogen receptor bound to tandem responsive elements. Ponglikitmongkol M, et al. **EMBO J** 1990 Jul;9(7):2221–31
NMR and molecular dynamics studies of the mKr2 'zinc finger'. Carr MD, et al. **Eur J Biochem** 1990 Mar 10; 188(2):455–61
Structure of the DNA binding wing of the gene-V encoded single- stranded DNA binding protein of the filamentous bacteriophage M13. van Duynhoven JP, et al. **FEBS Lett** 1990 Feb 12;261(1):1–4
Prediction of operator-binding protein by discriminant analysis. Nakata K, et al. **Gene Anal Tech** 1989 Nov-Dec; 6(6):111–9
Cooperative interactions of the gene 5 protein. Brayer G, et al. **J Biomol Struct Dyn** 1984 Dec;2(3):495–510
Topological comparison of two helix destabilizing proteins: ribonuclease A and the gene 5 DNA binding protein. Brayer GD, et al. **J Biomol Struct Dyn** 1985 Aug;

3(1):173–83
Porphyrin–nucleic acid interactions: a review. Fiel RJ. **J Biomol Struct Dyn** 1989 Jun;6(6):1259–74 (59 ref.)
Reductive methylation of the lysyl residues in the fd gene 5 DNA–binding protein: CD and 13C NMR results on the modified protein. Gray DM, et al. **J Biomol Struct Dyn** 1984 Aug;2(1):77–91
Molecular dynamics in protein–single stranded DNA complexes. Two distinct nucleoside mobilities in poly(deoxythymidylic acid)–gene 5 protein complexes. Kao SC, et al. **J Biomol Struct Dyn** 1985 Oct;3(2):261–8
Preliminary crystallographic analysis of a proteolytically modified form of E. coli single stranded DNA binding protein. Ng JD, et al. **J Biomol Struct Dyn** 1989 Jun; 6(6):1071–6
Theoretical modeling of DNA–monocationic lexitropsin complexation: influence of ligand binding on DNA curvature. Randrianarivelo M, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):769–79
A model for the complex between the helix destabilizing protein GP32 of bacteriophage T4 and single–stranded DNA. Scheerhagen MA, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):701–6
The role of DNA–binding proteins in differentiation and transformation. Whitelaw E. **J Cell Sci** 1989 Oct;94 (Pt 2):169–73 (38 ref.)
Determination of the three–dimensional structure of the Antennapedia homeodomain from Drosophila in solution by 1H nuclear magnetic resonance spectroscopy. Billeter M, et al. **J Mol Biol** 1990 Jul 5;214(1):183–97
Visualization of RecA protein and its complexes with DNA by quick–freeze/deep–etch electron microscopy. Heuser J, et al. **J Mol Biol** 1989 Dec 5;210(3):473–84
Second–order repeats in Xenopus laevis finger proteins. Nietfeld W, et al. **J Mol Biol** 1989 Aug 20;208(4):639–59
Model–building of Fnr and FixK DNA–binding domains suggests a basis for specific DNA recognition. Cherfils J, et al. **J Mol Recognit** 1989 Nov;2(3):114–21
Conformational energy analysis of the leucine repeat regions of C/EBP, GCN4, and the proteins of the myc, jun, and fos oncogenes. Brandt–Rauf PW, et al. **J Protein Chem** 1989 Oct;8(5):679–88
Four major sequence elements of simian virus 40 large T antigen coordinate its specific and nonspecific DNA binding. Simmons DT, et al. **J Virol** 1990 May; 64(5):1973–83
Nucleolar transcription factor hUBF contains a DNA–binding motif with homology to HMG proteins. Jantzen HM, et al. **Nature** 1990 Apr 26;344(6269):830–6
Cold shock and DNA binding [letter] Wistow G. **Nature** 1990 Apr 26;344(6269):823–4
Colourimetric detection of PCR products using the DNA–binding protein TyrR. Triglia T, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1080
Purified glucocorticoid receptors bind selectively in vitro to a cloned DNA fragment that mediates a delayed secondary response to glucocorticoids in vivo. Hess P, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2564–8
Transferrin–polycation conjugates as carriers for DNA uptake into cells. Wagner E, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3410–4
Solution structure of a zinc finger domain of yeast ADR1. Klevit RE, et al. **Proteins** 1990;7(3):215–26
An expectation maximization (EM) algorithm for the identification and characterization of common sites in unaligned biopolymer sequences. Lawrence CE, et al. **Proteins** 1990;7(1):41–51
Structural motif of the GCN4 DNA binding domain characterized by affinity cleaving. Oakley MG, et al. **Science** 1990 May 18;248(4957):847–50
Aspergillus and mouse share a new class of 'zinc finger' protein [letter] Arst HN Jr, et al. **Trends Genet** 1989 Sep; 5(9):291
Regulatory DNA–binding proteins in yeast: an overview. Verdier JM. **Yeast** 1990 Jul–Aug;6(4):271–97 (295 ref.)

ANALYSIS

In situ detection of DNA–binding proteins in herpes simplex virus type 1–infected cells. Mohammad F, et al. **Acta Virol (Praha)** 1989 Sep;33(5):401–9
Characterization of indo–1 and quin–2 as spectroscopic probes for Zn2(+)–protein interactions. Jefferson JR, et al. **Anal Biochem** 1990 Jun;187(2):328–36
Complexes of nuclear matrix DNA with proteins tightly bound to DNA contain a specific small–size RNA of a novel type. Chernokhvostov VV, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):95–101
Detection in non–erythroid cells of a factor with the binding characteristics of the erythroid cell transcription factor EF1. Perkins ND, et al. **Biochem J** 1990 Jul 15;269(2):543–5
13C NMR of methylated lysines of fd gene 5 protein: evidence for a conformational change involving lysine 24 upon binding of a negatively charged lanthanide chelate. Dick LR, et al. **Biochemistry** 1989 Sep 19;28(19):7896–904
Stereospecific nuclear magnetic resonance assignments of the methyl groups of valine and leucine in the DNA–binding domain of the 434 repressor by biosynthetically directed fractional 13C labeling. Neri D, et al. **Biochemistry** 1989 Sep 19;28(19):7510–6
Localization of the NGFI–A protein in the rat brain. Mack K, et al. **Brain Res Mol Brain Res** 1990 Jul;8(2):177–80
The presence of an antigen reactive with a human autoantibody in Trichosia pubescens (Diptera: Sciaridae) and its association with certain transcriptionally active regions of the genome. Amabis JM, et al. **Chromosoma** 1990 Apr;99(2):102–10
Nucleolin from the multiple nucleoli of amphibian oocyte nuclei. DiMario PJ, et al. **Chromosoma** 1990 Apr; 99(2):87–94
A family of octamer–specific proteins present during mouse embryogenesis: evidence for germline–specific expression of an Oct factor. Schöler HR, et al. **EMBO J** 1989 Sep; 8(9):2543–50
Bacterial histone–like protein I' (HLP–I) is an outer membrane constituent? Hirvas L, et al. **FEBS Lett** 1990 Mar 12;262(1):123–6
Multiplicity of the DNA–binding protein HBP–1 specific to the conserved hexameric sequence ACGTCA in various plant gene promoters. Mikami K, et al. **FEBS Lett** 1989 Oct 9;256(1–2):67–70
Sequence–specific [1H]NMR resonance assignments and secondary structure identification for 1– and 2–zinc finger constructs from SW15. A hydrophobic core involving four invariant residues. Neuhaus D, et al. **FEBS Lett** 1990 Mar 26;262(2):179–84
Interaction of the LexA repressor and the uvrC regulatory region. Stark T, et al. **FEBS Lett** 1989 Nov 20;258(1):39–41
Nuclear localization of antigens detected by a monoclonal antibody against a synthetic peptide of rfp finger protein. Kikuchi T, et al. **Hybridoma** 1990 Apr;9(2):189–200
Nucleocapsid, nuclear association, and genome location of the herpes simplex virus type 2 38–kD DNA–binding protein. Burdett LA, et al. **Intervirology** 1990;31(2–4):76–84
Acid–soluble tightly–bound chromatin proteins and DNA methylation. Reale A, et al. **Ital J Biochem** 1989 Nov–Dec; 38(6):392A–394A
Association of histone–like tightly–bound proteins to hypermethylated nucleosomes. Rispoli M, et al. **Ital J Biochem** 1989 Nov–Dec;38(6):389A–392A
Determining residue–base interactions between AraC protein and araI DNA. Brunelle A, et al. **J Mol Biol** 1989 Oct 20;209(4):607–22
Small, heat–stable, DNA–binding proteins from Caulobacter crescentus. Paterczyk B, et al. **Microbios** 1990; 61(248–249):135–43
Identification of a yeast protein with properties similar to those of the immunoglobulin heavy–chain enhancer–binding protein NF–muE3. Beckmann H, et al. **Mol Cell Biol** 1989 Oct;9(10):4535–40
Analysis of multiple forms of nuclear factor I in human and murine cell lines. Goyal N, et al. **Mol Cell Biol** 1990 Mar; 10(3):1041–8
A lipopolysaccharide–induced DNA–binding protein for a class II gene in B cells is distinct from NF–kappa B. Gravallese EM, et al. **Mol Cell Biol** 1989 Aug;9(8):3184–92
Identification of multiple proteins that interact with functional regions of the human cardiac alpha–actin promoter. Gustafson TA, et al. **Mol Cell Biol** 1989 Aug; 9(8):3269–83
Identification of two nuclear factor–binding domains on the chicken cardiac actin promoter: implications for regulation of the gene. Quitschke WW, et al. **Mol Cell Biol** 1989 Aug; 9(8):3218–30
Detection of a novel minisatellite–specific DNA–binding protein. Collick A, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):625–9
DNA binding proteins present in guanidinium isothiocyanate lysates of cells are suitable for specific binding site blotting. Freyaldenhoven MP, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8891
Albumin improves formation and detection of some specific protein–DNA complexes in the mobility shift assay. Kozmík Z, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2198
Characterization of the adenovirus 2 virion protein, mu. Anderson CW, et al. **Virology** 1989 Oct;172(2):506–12
The cauliflower mosaic virus gene III product is a non–sequence–specific DNA binding protein. Mesnard JM, et al. **Virology** 1990 Feb;174(2):622–4
[Localization in the body of the mobile element MDG1 of 2 regions specifically binding with Drosophila nuclear proteins] Cherkasova VA, et al. **Genetika** 1989 Dec; 25(12):2101–10 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

4–Hydroxynonenal induces a DNA–binding protein similar to the heat–shock factor. Cajone F, et al. **Biochem J** 1989 Sep 15;262(3):977–9
Synergistic interaction between interferon–alpha and interferon–gamma through induced synthesis of one subunit of the transcription factor ISGF3. Levy DE, et al. **EMBO J** 1990 Apr;9(4):1105–11
The E2 protein of human papillomavirus type 16. Over–expression and purification of an active transcriptional regulator. Lees EM, et al. **Eur J Biochem** 1990 May 31;190(1):85–92
An insulin–induced DNA–binding protein for the human growth hormone gene. Prager D, et al. **J Clin Invest** 1990 May;85(5):1680–5
Glutamate receptor agonists increase the expression of Fos, Fra, and AP–1 DNA binding activity in the mammalian brain. Sonnenberg JL, et al. **J Neurosci Res** 1989 Sep; 24(1):72–80
ras–induced neuronal differentiation of PC12 cells: possible involvement of fos and jun. Sassone–Corsi P, et al. **Mol Cell Biol** 1989 Aug;9(8):3174–83
Integrated HPV 1 genomes in a human keratinocyte cell line can be transactivated by a SV40/BPV1 recombinant virus which expresses BPV1 E2 proteins. Parton A, et al. **Virology** 1990 Apr;175(2):508–17

BLOOD

Purification and characterization of a high–molecular–weight protein induced in rat serum during the development of cardiac hypertrophy. Mariappan M, et al. **Arch Biochem Biophys** 1990 Sep;281(2):287–97
Synthesis of a 60 kD nuclear DNA binding protein induced by cytosine arabinoside in the HL 60 leukemic cell line. Ravazzolo R, et al. **Eur J Haematol** 1990 Mar;44(3):150–3

CHEMICAL SYNTHESIS

In vitro trans–activation by chemically synthesized adenovirus region 3 peptides. Reaction properties and mutational analysis. Loewenstein PM, et al. **J Biol Chem** 1989 Dec 25;264(36):21504–8
[Synthesis of nonlinear DNA–binding peptide with binding specificity determinants close to those of 434 Cro–repressor] Grokhovskiĭ SL, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1558–80 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Detection of total DNA with single–stranded DNA binding protein conjugates. Sheldon EL 3d, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):474–80

GENETICS

Relationship of E1 and E3 regions of human adenovirus 35 to those of human adenovirus subgroups A, C and D. Kang WG, et al. **Acta Microbiol Hung** 1989;36(4):445–57
Retroviral integration in murine myeloid tumors to identify Evi–1, a novel locus encoding a zinc–finger protein. Copeland NG, et al. **Adv Cancer Res** 1990;54:141–57 (62 ref.)
Is zinc–finger Y the sex–determining gene? Erickson RP, et al. **Am J Hum Genet** 1989 Nov;45(5):671–4 (26 ref.)
The putative testis–determining factor and related genes are expressed as discrete–sized transcripts in adult gonadal and somatic tissues. Lau YF, et al. **Am J Hum Genet** 1989 Dec; 45(6):942–52
Calcium and proto–oncogene involvement in the immediate–early response in the nervous system. Morgan JI, et al. **Ann N Y Acad Sci** 1989;568:283–90
Adenovirus E1A protein paradigm viral transactivator. Flint J, et al. **Annu Rev Genet** 1989;23:141–61 (98 ref.)
Characterization of the 70KDA component of the human Ku autoantigen expressed in insect cell nuclei using a recombinant baculovirus vector. Allaway GP, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):747–55
A genomic clone of Zfy–1 from a YDOM mouse strain detects post–meiotic gene expression of Zfy in testes. Kalikin LM, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1286–91
Activation of 'immediate–early' genes by estrogen is not sufficient to achieve stimulation of DNA synthesis in rat uterus. Persico E, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):287–92
Estrogen induced expression of the C–jun proto–oncogene in the immature and mature rat uterus. Webb DK, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):721–6
Secondary structural features of the bacteriophage Mu–encoded A and B transposition proteins. Chaconas G, et al. **Biochem J** 1989 Oct 1;263(1):19–23
Increased intracellular Ca2+ is necessary for maximal expression of the proto–oncogene c–jun in the Jurkat T–cell line. Vandenplas ML, et al. **Biochem J** 1990 Apr 15; 267(2):349–51
DNA distortion accompanies transcriptional activation by the metal–responsive gene–regulatory protein MerR. Frantz B, et al. **Biochemistry** 1990 May 22;29(20):4747–51
Active site of Escherichia coli DNA photolyase: mutations at Trp277 alter the selectivity of the enzyme without affecting the quantum yield of photorepair. Li YF, et al. **Biochemistry** 1990 Jun 19;29(24):5698–706
Structural and functional organization of a porcine gene coding for nuclear factor I. Meisterernst M, et al. **Biochemistry** 1989 Oct 3;28(20):8191–200
Site–specific mutagenesis of T4 gene 32: the role of tyrosine residues in protein–nucleic acid interactions. Shamoo Y, et al. **Biochemistry** 1989 Sep 5;28(18):7409–17
Mutagenesis of the cysteines in the metalloregulatory protein MerR indicates that a metal–bridged dimer activates transcription. Shewchuk LM, et al. **Biochemistry** 1989 Jul 25;28(15):6140–5
Nuclear factor I stimulates transcription of the adenovirus 12 E1A gene in a cell–free system. Koikeda S, et al. **Biochim Biophys Acta** 1990 Jan 30;1048(1):85–92
Characterization of HU–like protein from Bifidobacterium longum. Goshima N, et al. **Biochimie** 1990 Apr;72(4):207–12
Structural modifications induced by the mtDBP–C protein in the replication origin of Xenopus laevis mitochondrial DNA. Mignotte B, et al. **Biochimie** 1990 Jan;72(1):65–72
Molecular cloning of sequence–specific DNA binding proteins using recognition site probes. Singh H, et al. **Biotechniques** 1989 Mar;7(3):252–61 (53 ref.)
Expression of c–jun protooncogene in human

myelomonocytic cells. Bertani A, et al. **Blood** 1989 Oct; 74(5):1811–6

Localization and modulation of the DNA-binding activity of the human c-ets-1 protooncogene. Reddy ES, et al. **Cancer Res** 1990 Aug 15;50(16):5013–6

Structure and expression of the rat c-jun messenger RNA: tissue distribution and increase during chemical hepatocarcinogenesis. Sakai M, et al. **Cancer Res** 1989 Oct 15;49(20):5633–7

The protein Id: a negative regulator of helix-loop-helix DNA binding proteins. Benezra R, et al. **Cell** 1990 Apr 6; 61(1):49–59

Yeast centromere binding protein CBF1, of the helix-loop-helix protein family, is required for chromosome stability and methionine prototrophy. Cai M, et al. **Cell** 1990 May 4;61(3):437–46

Isolation and characterization of a zinc finger polypeptide gene at the human chromosome 11 Wilms' tumor locus. Call KM, et al. **Cell** 1990 Feb 9;60(3):509–20

The P30 movement protein of tobacco mosaic virus is a single-strand nucleic acid binding protein. Citovsky V, et al. **Cell** 1990 Feb 23;60(4):637–47

extramacrochaetae, a negative regulator of sensory organ development in Drosophila, defines a new class of helix-loop-helix proteins. Ellis HM, et al. **Cell** 1990 Apr 6;61(1):27–38

The Drosophila extramacrochaetae locus, an antagonist of proneural genes that, like these genes, encodes a helix-loop-helix protein. Garrell J, et al. **Cell** 1990 Apr 6;61(1):39–48

Cloning of the p50 DNA binding subunit of NF-kappa B: homology to rel and dorsal. Ghosh S, et al. **Cell** 1990 Sep 7;62(5):1019–29

NF-kappa B, KBF1, dorsal, and related matters. Gilmore TD. **Cell** 1990 Sep 7;62(5):841–3 (19 ref.)

An internal deletion within an 11p13 zinc finger gene contributes to the development of Wilms' tumor. Haber DA, et al. **Cell** 1990 Jun 29;61(7):1257–69

Snap helix with knob and hole: essential repeats in S. pombe nuclear protein nuc2+. Hirano T, et al. **Cell** 1990 Jan 26; 60(2):319–28

The HOP1 gene encodes a meiosis-specific component of yeast chromosomes. Hollingsworth NM, et al. **Cell** 1990 Apr 6;61(1):73–84

A Xenopus mRNA related to Drosophila twist is expressed in response to induction in the mesoderm and the neural crest. Hopwood ND, et al. **Cell** 1989 Dec 1;59(5):893–903

Antitumor promotion and antiinflammation: down-modulation of AP-1 (Fos/Jun) activity by glucocorticoid hormone. Jonat C, et al. **Cell** 1990 Sep 21; 62(6):1189–204

Transcriptional regulation by dimerization: two sides to an incestuous relationship. Jones N. **Cell** 1990 Apr 6;61(1):9–11 (17 ref.)

Extinction of an immunoglobulin kappa promoter in cell hybrids is mediated by the octamer motif and correlates with suppression of Oct-2 expression. Junker S, et al. **Cell** 1990 May 4;61(3):467–74

A new homeobox gene contributes the DNA binding domain of the t(1;19) translocation protein in pre-B ALL. Kamps MP, et al. **Cell** 1990 Feb 23;60(4):547–55

The DNA binding subunit of NF-kappa B is identical to factor KBF1 and homologous to the rel oncogene product. Kieran M, et al. **Cell** 1990 Sep 7;62(5):1007–18

The macrophage and B cell-specific transcription factor PU.1 is related to the ets oncogene [see comments] Klemsz MJ, et al. **Cell** 1990 Apr 6;61(1):113–24 Comment in: Cell 1990 Jun 29;61(7):1165–6.

A novel octamer binding transcription factor is differentially expressed in mouse embryonic cells. Okamoto K, et al. **Cell** 1990 Feb 9;60(3):461–72

jun-B inhibits and c-fos stimulates the transforming and trans-activating activities of c-jun. Schütte J, et al. **Cell** 1989 Dec 22;59(6):987–97

A single amino acid can determine the DNA binding specificity of homeodomain proteins. Treisman J, et al. **Cell** 1989 Nov 3;59(3):553–62

Characterization of a bipartite activator domain in transcription factor CREB. Yamamoto KK, et al. **Cell** 1990 Feb 23;60(4):611–7

Transcriptional interference between c-Jun and the glucocorticoid receptor: mutual inhibition of DNA binding due to direct protein-protein interaction. Yang-Yen HF, et al. **Cell** 1990 Sep 21;62(6):1205–15

A yeast telomere binding activity binds to two related telomere sequence motifs and is indistinguishable from RAP1. Longtine MS, et al. **Curr Genet** 1989 Oct; 16(4):225–39

Homeodomain proteins and the regulation of gene expression. Affolter M, et al. **Curr Opin Cell Biol** 1990 Jun;2(3):485–95 (16 ref.)

Transcription control and differentiation: the HLH family, c-myc and C/EBP. Kingston RE. **Curr Opin Cell Biol** 1989 Dec;1(6):1081–7 (23 ref.)

A genetic analysis of the zinc finger of SV40 large T antigen. Loeber G, et al. **Curr Top Microbiol Immunol** 1989;144:21–9

Tissue-specific expression of c-jun and junB during organogenesis in the mouse. Wilkinson DG, et al. **Development** 1989 Jul;106(3):465–71

Zfa is an expressed retroposon derived from an alternative transcript of the Zfx gene. Ashworth A, et al. **EMBO J** 1990 May;9(5):1529–34

The segment-specific gene Krox-20 encodes a transcription factor with binding sites in the promoter region of the Hox-1.4 gene. Chavrier P, et al. **EMBO J** 1990 Apr; 9(4):1209–18

The tal gene undergoes chromosome translocation in T cell leukemia and potentially encodes a helix-loop-helix protein. Chen Q, et al. **EMBO J** 1990 Feb;9(2):415–24

The C-terminal 79 amino acids of the herpes simplex virus regulatory protein, Vmw65, efficiently activate transcription in yeast and mammalian cells in chimeric DNA-binding proteins. Cousens DJ, et al. **EMBO J** 1989 Aug;8(8):2337–42

A mouse zinc finger gene which is transiently expressed during spermatogenesis. Cunliffe V, et al. **EMBO J** 1990 Jan;9(1):197–205

Ectopic expression of c-jun leads to differentiation of P19 embryonal carcinoma cells. de Groot RP, et al. **EMBO J** 1990 Jun;9(6):1831–7

Sequence, expression and mutational analysis of BAF1, a transcriptional activator and ARS1-binding protein of the yeast Saccharomyces cerevisiae. Halfter H, et al. **EMBO J** 1989 Dec 20;8(13):4265–72

Isolation and DNA-binding characteristics of a protein involved in transcription activation of two divergently transcribed, essential yeast genes. Halfter H, et al. **EMBO J** 1989 Oct;8(10):3029–37

The tramtrack gene encodes a Drosophila finger protein that interacts with the ftz transcriptional regulatory region and shows a novel embryonic expression pattern. Harrison SD, et al. **EMBO J** 1990 Jan;9(1):207–16

An essential Saccharomyces cerevisiae single-stranded DNA binding protein is homologous to the large subunit of human RP-A. Heyer WD, et al. **EMBO J** 1990 Jul; 9(7):2321–9

MyoD expression in the forming somites is an early response to mesoderm induction in Xenopus embryos. Hopwood ND, et al. **EMBO J** 1989 Nov;8(11):3409–17

Evidence of a ter specific binding protein essential for the termination reaction of DNA replication in Escherichia coli. Kobayashi T, et al. **EMBO J** 1989 Aug;8(8):2435–41

The regulatory gene areA mediating nitrogen metabolite repression in Aspergillus nidulans. Mutations affecting specificity of gene activation alter a loop residue of a putative zinc finger. Kudla B, et al. **EMBO J** 1990 May; 9(5):1355–64

Transcriptional activation by the papillomavirus E6 zinc finger oncoprotein. Lamberti C, et al. **EMBO J** 1990 Jun; 9(6):1907–13

Leucine zipper structure of the protein CRE-BP1 binding to the cyclic AMP response element in brain. Maekawa T, et al. **EMBO J** 1989 Jul;8(7):2023–8

Transcriptional activation of bacteriophage lambda DNA replication in vitro: regulatory role of histone-like protein HU of Escherichia coli. Mensa-Wilmot K, et al. **EMBO J** 1989 Aug;8(8):2393–402

Transcriptional activation of the Klebsiella pneumoniae nifLA promoter by NTRC is face-of-the-helix dependent and the activator stabilizes the interaction of sigma 54-RNA polymerase with the promoter. Minchin SD, et al. **EMBO J** 1989 Nov;8(11):3491–9

Yeast MIG1 repressor is related to the mammalian early growth response and Wilms' tumour finger proteins. Nehlin JO, et al. **EMBO J** 1990 Sep;9(9):2891–8

Three hormone receptor-like Drosophila genes encode an identical DNA-binding finger. Rothe M, et al. **EMBO J** 1989 Oct;8(10):3087–94

Oct-4: a germline-specific transcription factor mapping to the mouse t-complex. Schöler HR, et al. **EMBO J** 1990 Jul;9(7):2185–95

The DNA binding domain (POU domain) of transcription factor oct-1 suffices for stimulation of DNA replication. Verrijzer CP, et al. **EMBO J** 1990 Jun;9(6):1883–8

Multiple cDNA clones encoding nuclear proteins that bind to the tax-dependent enhancer of HTLV-1: all contain a leucine zipper structure and basic amino acid domain. Yoshimura T, et al. **EMBO J** 1990 Aug;9(8):2537–42

A regulatory gene, angR, of the iron uptake system of Vibrio anguillarum: similarity with phage P22 cro and regulation by iron. Farrell DH, et al. **Gene** 1990 Jan 31;86(1):45–51

Structure, chromosome mapping and regulation of the mouse zinc-finger gene Krox-24; evidence for a common regulatory pathway for immediate-early serum-response genes. Janssen-Timmen U, et al. **Gene** 1989 Aug 15; 80(2):325–36

Requirement of integration host factor (IHF) for growth of Escherichia coli deficient in HU protein. Kano Y, et al. **Gene** 1990 Apr 30;89(1):133–7

Physical and biological consequences of interactions between integration host factor (IHF) and coliphage lambda late p'R promoter and its mutants. Kur J, et al. **Gene** 1989 Sep 1;81(1):1–15

Inhibition of adenovirus 5 replication in COS-1 cells by antisense RNAs against the viral E1a region. Miroshnichenko OI, et al. **Gene** 1989 Dec 7;84(1):83–9

Regulation of human glutathione S-transferase pi gene transcription: influence of 5'-flanking sequences and trans-activating factors which recognize AP-1-binding sites. Morrow CS, et al. **Gene** 1990 Apr 16;88(2):215–25

Definition of T-cell specific DNA-binding factors that interact with a 3'-silencer in the CD4+ T-cell gene Rpt-1. Patarca R, et al. **Gene** 1989 Dec 28;85(2):461–9

Expression of the rip gene of Bacillus subtilis is required for replication fork arrest at the chromosome terminus. Smith MT, et al. **Gene** 1989 Dec 21;85(1):187–92

Promoters for the human alcohol dehydrogenase genes ADH1, ADH2, and ADH3: interaction of CCAAT/enhancer-binding protein with elements flanking the ADH2 TATA box. Stewart MJ, et al. **Gene** 1990 Jun 15;90(2):271–9

The Escherichia coli melR gene encodes a DNA-binding protein with affinity for specific sequences located in the melibiose-operon regulatory region. Webster C, et al. **Gene** 1989 Nov 30;83(2):207–13

Tissue-specific expression, developmental regulation, and genetic mapping of the gene encoding CCAAT/enhancer binding protein. Birkenmeier EH, et al. **Genes Dev** 1989 Aug;3(8):1146–56

Serum and v-src increase the level of a CCAAT-binding factor required for transcription from a retroviral long terminal repeat. Dutta A, et al. **Genes Dev** 1990 Feb; 4(2):243–54

A DNA-binding protein containing two widely separated zinc finger motifs that recognize the same DNA sequence. Fan CM, et al. **Genes Dev** 1990 Jan;4(1):29–42

The homeo domain protein rough is expressed in a subset of cells in the developing Drosophila eye where it can specify photoreceptor cell subtype. Kimmel BE, et al. **Genes Dev** 1990 May;4(5):712–27

Induction of transcription factor AP-1 by adenovirus E1A protein and cAMP. Müller U, et al. **Genes Dev** 1989 Dec; 3(12A):1991–2002

The two candidate testis-determining Y genes (Zfy-1 and Zfy-2) are differentially expressed in fetal and adult mouse tissues. Nagamine CM, et al. **Genes Dev** 1990 Jan;4(1):63–74

Pan: a transcriptional regulator that binds chymotrypsin, insulin, and AP-4 enhancer motifs. Nelson C, et al. **Genes Dev** 1990 Jun;4(6):1035–43

Cloning and characterization of the segment polarity gene cubitus interruptus Dominant of Drosophila. Orenic TV, et al. **Genes Dev** 1990 Jun;4(6):1053–67

Activation of an intron enhancer within the keratin 18 gene by expression of c-fos and c-jun in undifferentiated F9 embryonal carcinoma cells. Oshima RG, et al. **Genes Dev** 1990 May;4(5):835–48

The Drosophila Fos-related AP-1 protein is a developmentally regulated transcription factor. Perkins KK, et al. **Genes Dev** 1990 May;4(5):822–34

The gene encoding ARS-binding factor I is essential for the viability of yeast. Rhode PR, et al. **Genes Dev** 1989 Dec; 3(12A):1926–39

SV40 stimulates expression of the transacting factor Sp1 at the mRNA level. Saffer JD, et al. **Genes Dev** 1990 Apr; 4(4):659–66

Pituitary cell phenotypes involve cell-specific Pit-1 mRNA translation and synergistic interactions with other classes of transcription factors. Simmons DM, et al. **Genes Dev** 1990 May;4(5):695–711

The E2 trans-activator can act as a repressor by interfering with a cellular transcription factor [published erratum appears in Genes Dev 1990 Mar;4(3):476] Stenlund A, et al. **Genes Dev** 1990 Jan;4(1):123–36

A sequence-specific DNA-binding protein that activates fushi tarazu segmentation gene expression. Ueda H, et al. **Genes Dev** 1990 Apr;4(4):624–35

The rIIA gene of bacteriophage T4. I. Its DNA sequence and discovery of a new open reading frame between genes 60 and rIIA. Daegelen P, et al. **Genetics** 1990 Jun; 125(2):237–48

The rIIA gene of bacteriophage T4. II. Regulation of its messenger RNA synthesis. Daegelen P, et al. **Genetics** 1990 Jun;125(2):249–60

The structure and function of RAD6 and RAD18 DNA repair genes of Saccharomyces cerevisiae. Prakash L. **Genome** 1989;31(2):597–600 (33 ref.)

The gene for the ubiquitous octamer-binding protein Oct-1 is on human chromosome 1, region cen-q32, and near Ly-22 and Ltw-4 on mouse chromosome 1. Hsieh CL, et al. **Genomics** 1990 Apr;6(4):666–72

cDNA isolation, expression analysis, and chromosomal localization of two human zinc finger genes. Lania L, et al. **Genomics** 1990 Feb;6(2):333–40

Chromosomal localization of ZFX—a human gene that escapes X inactivation—and its murine homologs. Page DC, et al. **Genomics** 1990 May;7(1):37–46

Isolation of sequences from Xp22.3 and deletion mapping using sex chromosome rearrangements from human X-Y interchange sex reversals. Petit C, et al. **Genomics** 1990 Apr;6(4):651–8

Assignment of the human gene for CREB1 to chromosome 2q32.3-q34. Taylor AK, et al. **Genomics** 1990 Jul; 7(3):416–21

Transient induction of c-jun during hepatic regeneration. Alcorn JA, et al. **Hepatology** 1990 Jun;11(6):909–15

Localization of the human HF.10 finger gene on a chromosome region (3p21–22) frequently deleted in human cancers. Donti E, et al. **Hum Genet** 1990 Apr;84(5):391–5

Transcription factors and recessive oncogenes in the pathogenesis of human lung cancer. Minna JD, et al. **Int J Cancer Suppl** 1989;4:32–4 (41 ref.)

Subunit-specific phenotypes of Salmonella typhimurium HU mutants. Hillyard DR, et al. **J Bacteriol** 1990 Sep; 172(9):5402–7

Purified Escherichia coli F-factor TraY protein binds oriT. Lahue EE, et al. **J Bacteriol** 1990 Mar;172(3):1385–91

Integration host factor plays a role in IS50 and Tn5 transposition. Makris JC, et al. **J Bacteriol** 1990 Mar; 172(3):1368–73

DNA replication in Escherichia coli mutants that lack protein HU. Ogawa T, et al. **J Bacteriol** 1989 Oct;171(10):5672–9

Activation of glnA transcription by nitrogen regulator I (NRI)–phosphate in Escherichia coli: evidence for a long–range physical interaction between NRI–phosphate and RNA polymerase. Reitzer LJ, et al. **J Bacteriol** 1989 Oct;171(10):5512–22

Construction and properties of a temperature–sensitive mutation in the gene for the bacteriophage SPO1 DNA–binding protein TF1. Sayre MH, et al. **J Bacteriol** 1990 Aug;172(8):4672–81

Cloning of Xenopus RCC1 cDNA, a homolog of the human RCC1 gene: complementation of tsBN2 mutation and identification of the product. Nishitani H, et al. **J Biochem (Tokyo)** 1990 Feb;107(2):228–35

In contrast to the glucocorticoid receptor, the thyroid hormone receptor is translated in the DNA binding state and is not associated with hsp90. Dalman FC, et al. **J Biol Chem** 1990 Mar 5;265(7):3615–8

The zinc finger protein NGFI–A exists in both nuclear and cytoplasmic forms in nerve growth factor–stimulated PC12 cells. Day ML, et al. **J Biol Chem** 1990 Sep 5; 265(25):15253–60

The primary structure of the 32–kDa subunit of human replication protein A. Erdile LF, et al. **J Biol Chem** 1990 Feb 25;265(6):3177–82

cys–3, the positive–acting sulfur regulatory gene of Neurospora crassa, encodes a sequence–specific DNA–binding protein. Fu YH, et al. **J Biol Chem** 1990 Jul 15;265(20):11942–7

Identification and characterization of an adenovirus 2 major late promoter CAP sequence DNA–binding protein. Garfinkel S, et al. **J Biol Chem** 1990 Jun 25; 265(18):10309–19

Overexpression, purification, and characterization of recombinant T4 gene 32 protein22–301 (g32P–B). Giedroc DP, et al. **J Biol Chem** 1990 Jul 15;265(20):11444–55

Purification of a DNA replication terminus (ter) site–binding protein in Escherichia coli and identification of the structural gene. Hidaka M, et al. **J Biol Chem** 1989 Dec 15;264(35):21031–7

Specific binding of the TraY protein to oriT and the promoter region for the traY gene of plasmid R100. Inamoto S, et al. **J Biol Chem** 1990 Apr 15;265(11):6461–6

Alpha– and beta–adrenergic stimulation induces distinct patterns of immediate early gene expression in neonatal rat myocardial cells. fos/jun expression is associated with sarcomere assembly; Egr–1 induction is primarily an alpha 1–mediated response. Iwaki K, et al. **J Biol Chem** 1990 Aug 15;265(23):13809–17

Cadmium induces transcription of proto–oncogenes c–jun and c–myc in rat L6 myoblasts. Jin P, et al. **J Biol Chem** 1990 Aug 25;265(24):14061–4

Physical characterization of the purified CCAAT transcription factor, alpha–CP1. Kim CG, et al. **J Biol Chem** 1990 Aug 5;265(22):13362–9

Different members of the jun proto–oncogene family exhibit distinct patterns of expression in response to type beta transforming growth factor. Li L, et al. **J Biol Chem** 1990 Jan 25;265(3):1556–62

The A20 cDNA induced by tumor necrosis factor alpha encodes a novel type of zinc finger protein. Opipari AW Jr, et al. **J Biol Chem** 1990 Sep 5;265(25):14705–8

Transcriptional and post–transcriptional regulation of c–jun expression during monocytic differentiation of human myeloid leukemic cells. Sherman ML, et al. **J Biol Chem** 1990 Feb 25;265(6):3320–3

The RCC1 protein, a regulator for the onset of chromosome condensation locates in the nucleus and binds to DNA. Ohtsubo M, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1389–97

Expression of two "immediate early" genes, Egr–1 and c–fos, in response to renal ischemia and during compensatory renal hypertrophy in mice. Ouellette AJ, et al. **J Clin Invest** 1990 Mar;85(3):766–71

The expression of c–fos, c–jun, and c–myc genes is regulated by heat shock in human lymphoid cells. Bukh A, et al. **J Immunol** 1990 Jun 15;144(12):4835–40

Induction of immediate early response genes by macrophage colony–stimulating factor in normal human monocytes. Mufson RA. **J Immunol** 1990 Oct 1;145(7):2333–9

A second sequence element located 3' to the NF–kappa B–binding site regulates IL–2 receptor–alpha gene induction. Pomerantz JL, et al. **J Immunol** 1989 Dec 15; 143(12):4275–81

An amino–terminal fragment of GAL4 binds DNA as a dimer. Carey M, et al. **J Mol Biol** 1989 Oct 5;209(3):423–32

Homeodomain binding sites in the 5' flanking region of the Bombyx mori silk fibroin light–chain gene. Hui CC, et al. **J Mol Biol** 1990 Jun 5;213(3):395–8

Promoters and autogenous control of the Escherichia coli hupA and hupB genes. Kohno K, et al. **J Mol Biol** 1990 May 5;213(1):27–36

Genetic analysis of the switch that controls porin gene expression in Escherichia coli K–12 [published erratum appears in J Mol Biol 1990 Mar 20;212(2):429] Slauch JM, et al. **J Mol Biol** 1989 Nov 20;210(2):281–92

Purification and properties of RhaR, the positive regulator of the L–rhamnose operons of Escherichia coli. Tobin JF, et al. **J Mol Biol** 1990 Jan 5;211(1):75–89

Chronic electroconvulsive seizures down–regulate expression of the immediate–early genes c–fos and c–jun in rat cerebral cortex. Winston SM, et al. **J Neurochem** 1990 Jun; 54(6):1920–5

Platelet–activating factor stimulates a fos/jun/AP–1 transcriptional signaling system in human neuroblastoma cells. Squinto SP, et al. **J Neurosci Res** 1989 Dec; 24(4):558–66

Progressive restriction in the distribution of the Hox–1.3 homeodomain protein during embryogenesis. Tani M, et al. **J Neurosci Res** 1989 Dec;24(4):457–69 (56 ref.)

Definition of the sequence requirements for binding of the EBNA–1 protein to its palindromic target sites in Epstein–Barr virus DNA. Ambinder RF, et al. **J Virol** 1990 May;64(5):2369–79

Epstein–Barr virus BZLF1 trans activator induces the promoter of a cellular cognate gene, c–fos. Flemington E, et al. **J Virol** 1990 Sep;64(9):4549–52

Genetic evidence for multiple nuclear functions of the herpes simplex virus ICP8 DNA–binding protein. Gao M, et al. **J Virol** 1989 Dec;63(12):5258–67

The state of cellular differentiation determines the activity of the adenovirus E1A enhancer element: evidence for negative regulation of enhancer function. Herbst RS, et al. **J Virol** 1990 Jan;64(1):161–72

Loss of a phosphorylated form of transcription factor CREB/ATF in poliovirus–infected cells. Kliewer S, et al. **J Virol** 1990 Sep;64(9):4507–15

Adenovirus early region 3 promoter regulation by E1A/E1B is independent of alterations in DNA binding and gene activation of CREB/ATF and AP1. Kornuc M, et al. **J Virol** 1990 May;64(5):2004–13

Sequence–specific binding of DNA by the Moloney murine leukemia virus integrase protein. Krogstad PA, et al. **J Virol** 1990 Jun;64(6):2796–801

Cell–specific differences in activation of NF–kappa B regulatory elements of human immunodeficiency virus and beta interferon promoters by tumor necrosis factor. Lacoste J, et al. **J Virol** 1990 Oct;64(10):4726–34

Differential requirement for adenovirus type 12 E1A gene products in oncogenic transformation. Lamberti C, et al. **J Virol** 1990 Oct;64(10):4997–5007

In vitro transcriptional activation, dimerization, and DNA–binding specificity of the Epstein–Barr virus Zta protein. Lieberman PM, et al. **J Virol** 1990 Jun;64(6):2560–8

The adenovirus EII early promoter has multiple EIA–sensitive elements, two of which function cooperatively in basal and virus–induced transcription. Manohar CF, et al. **J Virol** 1990 Jun;64(6):2457–66

The mammalian upstream element factor recognizes two sites in the adenovirus type 2 IVa2–major late promoter intergenic region and stimulates both promoters. Moncollin V, et al. **J Virol** 1990 Jul;64(7):3199–206

Mutations that affect phosphorylation of the adenovirus DNA–binding protein alter its ability to enhance its own synthesis. Morin N, et al. **J Virol** 1989 Dec;63(12):5228–37

Conserved region 3 of the adenovirus type 5 DNA–binding protein is important for interaction with single–stranded DNA. Neale GA, et al. **J Virol** 1990 Feb;64(2):630–8

Structure and function of the Epstein–Barr virus BZLF1 protein. Packham G, et al. **J Virol** 1990 May;64(5):2110–6

The mouse adenovirus type 1 contains an unusual E3 region. Raviprakash KS, et al. **J Virol** 1989 Dec;63(12):5455–8

A baculovirus gene with a novel transcription pattern encodes a polypeptide with a zinc finger and a leucine zipper. Thiem SM, et al. **J Virol** 1989 Nov;63(11):4489–97

Simian virus 40 T antigen can transcriptionally activate and mediate viral DNA replication in cells which lack the retinoblastoma susceptibility gene product. Trifillis P, et al. **J Virol** 1990 Mar;64(3):1345–7

The E2 transactivator of bovine papillomavirus type 1 is expressed from multiple promoters. Vaillancourt P, et al. **J Virol** 1990 Aug;64(8):3927–37

Somatostatin gene regulation: an overview. Goodman RH, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):2–5 (26 ref.)

Characterization of a cAMP–regulated enhancer–binding protein. Habener JF, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):13–6

Fos and jun cooperate in transcriptional regulation via heterologous activation domains. Abate C, et al. **Mol Cell Biol** 1990 Oct;10(10):5532–5

brlA requires both zinc fingers to induce development. Adams TH, et al. **Mol Cell Biol** 1990 Apr;10(4):1815–7

Transcription of the promoter of the rat NF–1 gene depends on the integrity of an Sp1 recognition site. Ammendola R, et al. **Mol Cell Biol** 1990 Jan;10(1):387–90

Isolation of the gene encoding the Saccharomyces cerevisiae centromere–binding protein CP1. Baker RE, et al. **Mol Cell Biol** 1990 Jun;10(6):2458–67

A large protein containing zinc finger domains binds to related sequence elements in the enhancers of the class I major histocompatibility complex and kappa immunoglobulin genes. Baldwin AS Jr, et al. **Mol Cell Biol** 1990 Apr;10(4):1406–14

Definition of an Ets1 protein domain required for nuclear localization in cells and DNA–binding activity in vitro. Boulukos KE, et al. **Mol Cell Biol** 1989 Dec;9(12):5718–21

Nuclear factor EF–1A binds to the adenovirus E1A core enhancer element and to other transcriptional control regions. Bruder JT, et al. **Mol Cell Biol** 1989 Nov; 9(11):5143–53

A single amino acid change in CUP2 alters its mode of DNA binding. Buchman C, et al. **Mol Cell Biol** 1990 Sep; 10(9):4778–87

Identification and characterization of the Egr–1 gene product, a DNA–binding zinc finger protein induced by differentiation and growth signals. Cao XM, et al. **Mol Cell Biol** 1990 May;10(5):1931–9

A helix–loop–helix protein related to the immunoglobulin E box–binding proteins. Carr CS, et al. **Mol Cell Biol** 1990 Aug;10(8):4384–8

Functional serum response elements upstream of the growth factor–inducible gene zif268. Christy B, et al. **Mol Cell Biol** 1989 Nov;9(11):4889–95

Identification of the serum–responsive transcription initiation site of the zinc finger gene Krox–20. Cortner J, et al. **Mol Cell Biol** 1990 Jul;10(7):3788–91

A gene that encodes a protein consisting solely of zinc finger domains is preferentially expressed in transformed mouse cells. Ernoult–Lange M, et al. **Mol Cell Biol** 1990 Jan; 10(1):418–21

nit–2, the major nitrogen regulatory gene of Neurospora crassa, encodes a protein with a putative zinc finger DNA–binding domain. Fu YH, et al. **Mol Cell Biol** 1990 Mar;10(3):1056–65

A direct role for C/EBP and the AP–1–binding site in gene expression linked to adipocyte differentiation. Herrera R, et al. **Mol Cell Biol** 1989 Dec;9(12):5331–9

Expression of REX–1, a gene containing zinc finger motifs, is rapidly reduced by retinoic acid in F9 teratocarcinoma cells. Hosler BA, et al. **Mol Cell Biol** 1989 Dec;9(12):5623–9

REB1, a yeast DNA–binding protein with many targets, is essential for growth and bears some resemblance to the oncogene myb. Ju QD, et al. **Mol Cell Biol** 1990 Oct; 10(10):5226–34

A cDNA for a human cyclic AMP response element–binding protein which is distinct from CREB and expressed preferentially in brain. Kara CJ, et al. **Mol Cell Biol** 1990 Apr;10(4):1347–57

Human proviral mRNAs down regulated in choriocarcinoma encode a zinc finger protein related to Krüppel. Kato N, et al. **Mol Cell Biol** 1990 Aug;10(8):4401–5

Autoinduction of transforming growth factor beta 1 is mediated by the AP–1 complex. Kim SJ, et al. **Mol Cell Biol** 1990 Apr;10(4):1492–7

Two DNA–binding proteins discriminate between the promoters of different members of the major histocompatibility complex class II multigene family. Kobr M, et al. **Mol Cell Biol** 1990 Mar;10(3):965–71

Synergism between distinct enhanson domains in viral induction of the human beta interferon gene. Leblanc JF, et al. **Mol Cell Biol** 1990 Aug;10(8):3987–93

The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis–acting element and a plasmid–encoded trans–acting factor. Leiting B, et al. **Mol Cell Biol** 1990 Jul;10(7):3727–36

The serum–inducible mouse gene Krox–24 encodes a sequence–specific transcriptional activator. Lemaire P, et al. **Mol Cell Biol** 1990 Jul;10(7):3456–67

Epidermal growth factor stimulation of stromelysin mRNA in rat fibroblasts requires induction of proto–oncogenes c–fos and c–jun and activation of protein kinase C. McDonnell SE, et al. **Mol Cell Biol** 1990 Aug;10(8):4284–93

Mouse Zfx protein is similar to Zfy–2: each contains an acidic activating domain and 13 zinc fingers. Mardon G, et al. **Mol Cell Biol** 1990 Feb;10(2):681–8

c–myc, c–fos, and c–jun regulation in the regenerating livers of normal and H–2K/c–myc transgenic mice. Morello D, et al. **Mol Cell Biol** 1990 Jun;10(6):3185–93

Induction of the proto–oncogene c–jun by angiotensin II. Naftilan AJ, et al. **Mol Cell Biol** 1990 Oct;10(10):5536–40

Regulation of the mouse alpha A–crystallin gene: isolation of a cDNA encoding a protein that binds to a cis sequence motif shared with the major histocompatibility complex class I gene and other genes. Nakamura T, et al. **Mol Cell Biol** 1990 Jul;10(7):3700–8

Functional domains of a positive regulatory protein, PHO4, for transcriptional control of the phosphatase regulon in Saccharomyces cerevisiae. Ogawa N, et al. **Mol Cell Biol** 1990 May;10(5):2224–36

Purification and cloning of interferon–stimulated gene factor 2 (ISGF2): ISGF2 (IRF–1) can bind to the promoters of both beta interferon– and interferon–stimulated genes but is not a primary transcriptional activator of either. Pine R, et al. **Mol Cell Biol** 1990 Jun;10(6):2448–57

Cyclic AMP–dependent protein kinase regulates transcription of the phosphoenolpyruvate carboxykinase gene but not binding of nuclear factors to the cyclic AMP regulatory element. Quinn PG, et al. **Mol Cell Biol** 1990 Jul;10(7):3357–64

Domain swapping reveals the modular nature of Fos, Jun, and CREB proteins. Ransone LJ, et al. **Mol Cell Biol** 1990 Sep;10(9):4565–73

The Drosophila even–skipped promoter is transcribed in a stage–specific manner in vitro and contains multiple, overlapping factor–binding sites. Read D, et al. **Mol Cell Biol** 1990 Aug;10(8):4334–44

GLI3 encodes a 190–kilodalton protein with multiple regions of GLI similarity. Ruppert JM, et al. **Mol Cell Biol** 1990 Oct;10(10):5408–15

The leucine zipper of c–Myc is required for full inhibition of erythroleukemia differentiation. Smith MJ, et al. **Mol Cell Biol** 1990 Oct;10(10):5333–9

Characterization of chicken c–ski oncogene products

expressed by retrovirus vectors. Sutrave P, et al. **Mol Cell Biol** 1990 Jun;10(6):3137–44

Premature chromosome condensation is induced by a point mutation in the hamster RCC1 gene. Uchida S, et al. **Mol Cell Biol** 1990 Feb;10(2):577–84

Identification of positive-acting domains in GCN2 protein kinase required for translational activation of GCN4 expression. Wek RC, et al. **Mol Cell Biol** 1990 Jun; 10(6):2820–31

Interferon-regulatory factor 1 is an immediate-early gene under transcriptional regulation by prolactin in Nb2 T cells. Yu-Lee LY, et al. **Mol Cell Biol** 1990 Jun;10(6):3087–94

The UGA3 gene regulating the GABA catabolic pathway in Saccharomyces cerevisiae codes for a putative zinc-finger protein acting on RNA amount. André B. **Mol Gen Genet** 1990 Jan;220(2):269–76

Maintenance of plasmids in HU and IHF mutants of Escherichia coli. Ogura T, et al. **Mol Gen Genet** 1990 Jan; 220(2):197–203

The function of isolated domains and chimaeric proteins constructed from the transcriptional activators NifA and NtrC of Klebsiella pneumoniae. Drummond MH, et al. **Mol Microbiol** 1990 Jan;4(1):29–37

Structure of Arc repressor in solution: evidence for a family of beta-sheet DNA-binding proteins. Breg JN, et al. **Nature** 1990 Aug 9;346(6284):586–9

Autoregulation of pit-1 gene expression mediated by two cis-active promoter elements. Chen RP, et al. **Nature** 1990 Aug 9;346(6284):583–6

Rescue of bicoid mutant Drosophila embryos by bicoid fusion proteins containing heterologous activating sequences. Driever W, et al. **Nature** 1989 Nov 9;342(6246):149–54

DNA-binding domain ancestry [letter] Frampton J, et al. **Nature** 1989 Nov 9;342(6246):134

Homozygous deletion in Wilms tumours of a zinc-finger gene identified by chromosome jumping. Gessler M, et al. **Nature** 1990 Feb 22;343(6260):774–8

Activation of muscle genes without myogenesis by ectopic expression of MyoD in frog embryo cells. Hopwood ND, et al. **Nature** 1990 Sep 13;347(6289):197–200

Two rat homologues of Drosophila achaete-scute specifically expressed in neuronal precursors. Johnson JE, et al. **Nature** 1990 Aug 30;346(6287):858–61

Insulin gene enhancer binding protein Isl-1 is a member of a novel class of proteins containing both a homeo- and a Cys-His domain. Karlsson O, et al. **Nature** 1990 Apr 26;344(6269):879–82

Mutations that alter transcriptional activation but not DNA binding in the zinc finger of yeast activator HAP1. Kim KS, et al. **Nature** 1989 Nov 9;342(6246):200–3

Expression of an erythroid transcription factor in megakaryocytic and mast cell lineages. Martin DI, et al. **Nature** 1990 Mar 29;344(6265):444–7

Sex, growth and chance [letter; comment] Mittwoch U. **Nature** 1990 Mar 29;344(6265):389–90 Comment on: Nature 1989 Dec 21–28;342(6252):860–2.

DNA-binding motif [letter] Prendergast GC, et al. **Nature** 1989 Oct 5;341(6241):392

Dependence of position-effect variegation in Drosophila on dose of a gene encoding an unusual zinc-finger protein. Reuter G, et al. **Nature** 1990 Mar 15;344(6263):219–23

Megakaryocytic and erythrocytic lineages share specific transcription factors. Romeo PH, et al. **Nature** 1990 Mar 29;344(6265):447–9

A POU-domain transcription factor in early stem cells and germ cells of the mammalian embryo. Rosner MH, et al. **Nature** 1990 Jun 21;345(6277):686–92

Putative transcription activator with alternative isoforms encoded by human ZFX gene. Schneider-Gädicke A, et al. **Nature** 1989 Dec 7;342(6250):708–11

New type of POU domain in germ line-specific protein Oct-4. Schöler HR, et al. **Nature** 1990 Mar 29; 344(6265):435–9

Sequence-specific DNA-binding activities of the gap proteins encoded by hunchback and Krüppel in Drosophila. Stanojević D, et al. **Nature** 1989 Sep 28;341(6240):331–5

Structure and evolution of a human erythroid transcription factor. Trainor CD, et al. **Nature** 1990 Jan 4;343(6253):92–6

Coupled and uncoupled induction of fos and jun transcription by different second messengers in cells of hematopoietic origin. Auwerx J, et al. **Nucleic Acids Res** 1990 Jan 25; 18(2):221–8

A common protein binds to two silencers 5' to the human beta-globin gene. Berg PE, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8833–52

Loss of DNA-binding and new transcriptional trans-activation function in polyomavirus large T-antigen with mutation of zinc finger motif. Bergqvist A, et al. **Nucleic Acids Res** 1990 May 11;18(9):2715–20

Structure, expression and chromosomal localization of Zfp-1, a murine zinc finger protein gene. Chowdhury K, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10427–38

CpG methylation inhibits proenkephalin gene expression and binding of the transcription factor AP-2. Comb M, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3975–82

Differential expression of jun and fos genes during differentiation of mouse P19 embryonal carcinoma cells. de Groot RP, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3195–202

A member of the steroid hormone receptor gene family is expressed in the 20-OH-ecdysone inducible puff 75B in Drosophila melanogaster. Feigl G, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7167–78

Isolation and characterization of two novel, closely related ATF cDNA clones from HeLa cells. Gaire M, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3467–73

Sequence of a cDNA coding for human IRF-2. Itoh S, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8372

Nucleotide sequence of rat c-jun protooncogene. Kitabayashi I, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3400

Modulo, a new maternally expressed Drosophila gene encodes a DNA-binding protein with distinct acidic and basic regions. Krejci E, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8101–15

A mutation in the Zn-finger of the GAL4 homolog LAC9 results in glucose repression of its target genes. Kuger P, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):745–51

Characterization of a human cDNA encoding a widely expressed and highly conserved cysteine-rich protein with an unusual zinc-finger motif. Liebhaber SA, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3871–9

The sequence of the zein regulatory gene opaque-2 (O2) of Zea Mays. Maddaloni M, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7532

Nucleotide sequence of hns encoding the DNA-binding protein H-NS of Salmonella typhimurium. Marsh M, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3397

In vitro binding of the bacteriophage f1 gene V protein to the gene II RNA-operator and its DNA analog. Michel B, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7333–44

Cloning and sequencing of a zinc finger cDNA expressed in mouse testis. Nelki D, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3655

Characterization of the v-myb DNA binding domain. Oehler T, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1703–10

Site-specific insertion and deletion mutants in the mer promoter-operator region of Tn501; the nineteen base-pair spacer is essential for normal induction of the promoter by MerR. Parkhill J, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5157–62

Activation in vitro of RNA polymerase II and III directed transcription by baculovirus produced E1A protein. Patel G, et al. **Nucleic Acids Res** 1990 May 25;18(10):2909–15

The serum and TPA responsive promoter and intron-exon structure of EGR2, a human early growth response gene encoding a zinc finger protein. Rangnekar VM, et al. **Nucleic Acids Res** 1990 May 11;18(9):2749–57

Chicken NFI/TGGCA proteins are encoded by at least three independent genes: NFI-A, NFI-B and NFI-C with homologues in mammalian genomes. Rupp RA, et al. **Nucleic Acids Res** 1990 May 11;18(9):2607–16

Specific DNA binding of the two chicken Deformed family homeodomain proteins, Chox-1.4 and Chox-a. Sasaki H, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1739–47

Somatotroph- and lactotroph-specific interactions with the homeobox protein binding sites in the rat growth hormone gene promoter. Schaufele F, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5235–43

Nucleotide sequence of Xenopus laevis Oct-1 cDNA. Smith DP, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):369

cDNA sequence of the human cellular early growth response gene Egr-1. Suggs SV, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4283

Broad host range plasmid RK2 encodes a polypeptide related to single-stranded DNA binding protein (SSB) of Escherichia coli. Thomas CM, et al. **Nucleic Acids Res** 1990 May 11;18(9):2812

A cDNA from a mouse pancreatic beta cell encoding a putative transcription factor of the insulin gene. Walker MD, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1159–66

Codons 262 to 490 from the herpes simplex virus ICP4 gene are sufficient to encode a sequence-specific DNA binding protein. Wu CL, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):531–8

Binding sites of HeLa cell nuclear proteins on the upstream region of adenovirus type 5 E1A gene. Yoshida K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10015–34

Yeast regulatory protein LEU3: a structure-function analysis. Zhou KM, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):291–8

Mapping of functional domains in Fos and Jun proteins using epitope-specific antibodies. Adamkiewicz J, et al. **Oncogene** 1990 Apr;5(4):525–33

Alternative splicing of the Evi-1 zinc finger gene generates mRNAs which differ by the number of zinc finger motifs. Bordereaux D, et al. **Oncogene** 1990 Jun;5(6):925–7

Analysis of dimerization and DNA binding functions in Fos and Jun by domain-swapping: involvement of residues outside the leucine zipper/basic region. Cohen DR, et al. **Oncogene** 1990 Jun;5(6):929–39

Complexity of the immediate early response of myeloid cells to terminal differentiation and growth arrest includes ICAM-1, Jun-B and histone variants. Lord KA, et al. **Oncogene** 1990 Mar;5(3):387–96

Chromosomal localization of the three members of the jun proto-oncogene family in mouse and man. Mattei MG, et al. **Oncogene** 1990 Jan;5(1):151–6

Unique expression of the human Evi-1 gene in an endometrial carcinoma cell line: sequence of cDNAs and structure of alternatively spliced transcripts. Morishita K, et al. **Oncogene** 1990 Jul;5(7):963–71

Identification of a Ets1 variant protein unaffected in its chromatin and in vitro DNA binding capacities by T cell antigen receptor triggering and intracellular calcium rises. Pognonec P, et al. **Oncogene** 1990 Apr;5(4):603–10

Cross-talk in signal transduction: TPA-inducible factor jun/AP-1 activates cAMP-responsive enhancer elements. Sassone-Corsi P, et al. **Oncogene** 1990 Mar;5(3):427–31

Identification and characterisation of the egr-1 gene product as an inducible, short-lived, nuclear phosphoprotein. Waters CM, et al. **Oncogene** 1990 May;5(5):669–74

Mitogenesis induced by pp60v-src is not accompanied by increased expression of immediate early response genes. Welham MJ, et al. **Oncogene** 1990 Feb;5(2):161–9

The chicken cellular progenitor of the v-ets oncogene, p68c-ets-1, is a nuclear DNA-binding protein not expressed in lymphoid cells of the spleen. Leprince D, et al. **Oncogene Res** 1990;5(4):255–65

A single amino-acid substitution in the DNA-binding domain of the myb oncogene confers a thermolabile phenotype to E26-transformed myeloid cells. Li RP, et al. **Oncogene Res** 1989;5(2):137–41

The human Evi-1 gene is located on chromosome 3q24–q28 but is not rearranged in three cases of acute nonlymphocytic leukemias containing t(3;5)(q25;q34) translocations. Morishita K, et al. **Oncogene Res** 1990; 5(3):221–31

Expression and purification of the leucine zipper and DNA-binding domains of Fos and Jun: both Fos and Jun contact DNA directly [published erratum appears in Proc Natl Acad Sci U S A 1990 Jun;87(11):4411] Abate C, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1032–6

Light regulates expression of a Fos-related protein in rat suprachiasmatic nuclei. Aronin N, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5959–62

The gene SCL is expressed during early hematopoiesis and encodes a differentiation-related DNA-binding motif. Begley CG, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):10128–32

Two distinct forms of active transcription factor CREB (cAMP response element binding protein). Berkowitz LA, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5258–62

Lon-dependent regulation of the DNA binding protein HU in Escherichia coli. Bonnefoy E, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7691–5

An interferon gamma-regulated protein that binds the interferon-inducible enhancer element of major histocompatibility complex class I genes. Driggers PH, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3743–7

nit-2, the major positive-acting nitrogen regulatory gene of Neurospora crassa, encodes a sequence-specific DNA-binding protein. Fu YH, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5331–5

Induction of the transcription factor IRF-1 and interferon-beta mRNAs by cytokines and activators of second-messenger pathways. Fujita T, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9936–40

Homeodomain of yeast repressor alpha 2 contains a nuclear localization signal. Hall MN, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):6954–8

H-2RIIBP, a member of the nuclear hormone receptor superfamily that binds to both the regulatory element of major histocompatibility class I genes and the estrogen response element. Hamada K, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8289–93

Lesion-induced increase in nerve growth factor mRNA is mediated by c-fos. Hengerer B, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3899–903

Two versions of the gene encoding the 41-kilodalton subunit of the telomere binding protein of Oxytricha nova. Hicke BJ, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1481–5

A single amino acid substitution results in a retinoblastoma protein defective in phosphorylation and oncoprotein binding. Kaye FJ, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6922–6

Internal deletions in the yeast transcriptional activator HAP1 have opposite effects at two sequence elements. Kim KS, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4524–8

Drosophila NK-homeobox genes. Kim Y, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7716–20

Negative and positive regulation by transcription factor cAMP response element-binding protein is modulated by phosphorylation. Lamph WW, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4320–4

Luteinizing hormone-releasing hormone neurons express Fos protein during the proestrous surge of luteinizing hormone. Lee WS, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):5163–7

Identification of a mammalian nuclear factor and human cDNA-encoded proteins that recognize DNA containing apurinic sites. Lenz J, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3396–400

The B subunit of a rat heteromeric CCAAT-binding transcription factor shows a striking sequence identity with the yeast Hap2 transcription factor. Maity SN, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5378–82

The trithorax gene, a trans-acting regulator of the bithorax complex in Drosophila, encodes a protein with zinc-binding domains. Mazo AM, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2112–6

Isolation and characterization of cDNA encoding the 80-kDa subunit protein of the human autoantigen Ku (p70/p80) recognized by autoantibodies from patients with scleroderma-polymyositis overlap syndrome. Mimori T, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1777–81

Transcriptional activation of a conserved sequence element by ras requires a nuclear factor distinct from c-fos or c-jun.

Owen RD, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3866–70

Comparison of human ZFY and ZFX transcripts. Palmer MS, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1681–5

Mouse genes coding for "zinc-finger"-containing proteins: characterization and expression in differentiated cells. Passananti C, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9417–21

Characterization of chicken octamer-binding proteins demonstrates that POU domain-containing homeobox transcription factors have been highly conserved during vertebrate evolution. Petryniak B, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1099–103

Ultrasensitivity and heavy-metal selectivity of the allosterically modulated MerR transcription complex. Ralston DM, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3846–50

Trans-dominant negative mutants of Fos and Jun. Ransone LJ, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3806–10

A point mutation at tyrosine-809 in the human colony-stimulating factor 1 receptor impairs mitogenesis without abrogating tyrosine kinase activity, association with phosphatidylinositol 3-kinase, or induction of c-fos and junB genes. Roussel MF, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6738–42

HMf, a DNA-binding protein isolated from the hyperthermophilic archaeon Methanothermus fervidus, is most closely related to histones. Sandman K, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5788–91

Maize regulatory gene opaque-2 encodes a protein with a "leucine-zipper" motif that binds to zein DNA. Schmidt RJ, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):46–50

Ionizing radiation regulates expression of the c-jun protooncogene. Sherman ML, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5663–6

E1A-dependent trans-activation of the c-fos promoter requires the TATAA sequence. Simon MC, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):513–7

The SpoOA protein of Bacillus subtilis is a repressor of the abrB gene. Strauch M, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1801–5

Isolation of cDNAs encoding a human protein that binds selectively to DNA modified by the anticancer drug cis-diamminedichloroplatinum(II) [published erratum appears in Proc Natl Acad Sci U S A 1990 Feb;87(4):1625] Toney JH, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8328–32

Mutations that disrupt DNA binding and dimer formation in the E47 helix-loop-helix protein map to distinct domains. Voronova A, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4722–6

Mutations in the structural genes for eukaryotic initiation factors 2 alpha and 2 beta of Saccharomyces cerevisiae disrupt translational control of GCN4 mRNA. Williams NP, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7515–9

Transcriptional repression of the neu protooncogene by the adenovirus 5 E1A gene products. Yu D, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4499–503

Drosophila homolog of the mammalian jun oncogene is expressed during embryonic development and activates transcription in mammalian cells. Zhang K, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6281–5

The major human erythroid DNA-binding protein (GF-1): primary sequence and localization of the gene to the X chromosome. Zon LI, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):668–72

Insertional mutagenesis and transformation of hematopoietic stem cells. Ihle JN, et al. **Prog Clin Biol Res** 1990; 352:329–37

The search for the mammalian testis-determining factor is on again. Graves JA. **Reprod Fertil Dev** 1990;2(2):199–204 (30 ref.)

Multipurpose role for RAP1, a yeast DNA looping protein. Gilson E. **Res Microbiol** 1989 Sep;140(7):433–8

Similarity between the transcriptional silencer binding proteins ABF1 and RAP1. Diffley JF, et al. **Science** 1989 Nov 24;246(4933):1034–8

A new member of the leucine zipper class of proteins that binds to the HLA DR alpha promoter. Liou HC, et al. **Science** 1990 Mar 30;247(4950):1581–4

The gene for enhancer binding proteins E12/E47 lies at the t(1;19) breakpoint in acute leukemias. Mellentin JD, et al. **Science** 1989 Oct 20;246(4928):379–82

A cDNA for a protein that interacts with the human immunodeficiency virus Tat transactivator. Nelbock P, et al. **Science** 1990 Jun 29;248(4963):1650–3

Regulation of proenkephalin by Fos and Jun. Sonnenberg JL, et al. **Science** 1989 Dec 22;246(4937):1622–5

Transcriptional regulator of oxidative stress-inducible genes: direct activation by oxidation. Storz G, et al. **Science** 1990 Apr 13;248(4952):189–94

Expression of a zinc finger gene in HTLV-I- and HTLV-II-transformed cells. Wright JJ, et al. **Science** 1990 May 4;248(4955):588–91

Sex determination: zinc fingers point in the wrong direction. Craig I. **Trends Genet** 1990 May;6(5):135–7 (6 ref.)

The E. coli dnaA initiation protein: a protein for all seasons. Georgopoulos C. **Trends Genet** 1989 Oct;5(10):319–21 (20 ref.)

Regulation of cAMP-inducible genes by CREB. Montminy MR, et al. **Trends Neurosci** 1990 May;13(5):184–8 (28 ref.)

Identification of the gene homologous to HSV major DNA binding protein in the BHV-1 genome. Bandyopadhyay SK, et al. **Vet Microbiol** 1990 Apr;22(2–3):203–12

Structural organization of the conserved gene block of Herpesvirus saimiri coding for DNA polymerase, glycoprotein B, and major DNA binding protein. Albrecht JC, et al. **Virology** 1990 Feb;174(2):533–42

Variable requirements for herpes simplex virus immediate-early proteins in the expression of the adenovirus E2 gene. Bachenheimer SL, et al. **Virology** 1990 Mar;175(1):338–42

The coding region for the 54-kDa protein of several pestiviruses lacks host insertions but reveals a "zinc finger-like" domain. De Moerlooze L, et al. **Virology** 1990 Aug;177(2):812–5

Herpes simplex virus Vmw65-octamer binding protein interaction: a paradigm for combinatorial control of transcription. Goding CR, et al. **Virology** 1989 Dec; 173(2):363–7 (26 ref.)

Ubiquitous and cell-type-specific protein interactions with human papillomavirus type 16 and type 18 enhancers. Nakshatri H, et al. **Virology** 1990 Sep;178(1):92–103

The completed sequence of lymphocytic choriomeningitis virus reveals a unique RNA structure and a gene for a zinc finger protein. Salvato MS, et al. **Virology** 1989 Nov; 173(1):1–10

Analysis of the binding sites for the varicella-zoster virus gene 51 product within the viral origin of DNA replication. Stow ND, et al. **Virology** 1990 Aug;177(2):570–7

Characterization of adenovirus type 5 insertion and deletion mutants encoding altered DNA binding proteins. Vos HL, et al. **Virology** 1989 Oct;172(2):634–42

Physical mapping of two temperature-sensitive adenovirus mutants affected in the DNA polymerase and DNA binding protein. Roovers DJ, et al. **Virus Genes** 1990 Jun;4(1):53–61

[Multiple DNA recognition sites by sequence-specific DNA-binding proteins in the region of replication initiation site located 5-end upstream to the chicken alpha-globin gene domain] Kintsurashvili EG, et al. **Dokl Akad Nauk SSSR** 1990 Jan–Feb;310(1):227–8 **(Rus)**

[CCCTC-binding protein: a new nuclear protein factor which interaction with 5'-flanking sequence of chicken c-myc oncogene correlates with repression of the gene] Lobanenkov VV, et al. **Dokl Akad Nauk SSSR** 1989; 309(3):741–5 **(Rus)**

[Nuclear protein factors binding with specific DNA sequences] Turpaev KT, et al. **Genetika** 1990 May; 26(5):804–16 (118 ref.) (Eng. Abstr.) **(Rus)**

[Specific interaction of a nuclear protein factor from the CTF/NF-I family with 2 different promoter regions of the rat tyrosine aminotransferase gene] Klenova EM, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1400–15 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Bacteriophage T4 gene 32 protein shares antigen determinants with reconstituted HeLa hnRNP proteins in western blots. Schenkel J, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1196–9

Reactivity of autoantibodies and DNA/anti-DNA complexes with a novel 110-kilodalton phosphoprotein in systemic lupus erythematosus and other diseases. Minota S, et al. **J Immunol** 1990 Feb 15;144(4):1263–9

Preparation of monoclonal antibodies against nuclear antigens in a DNA affinity purified protein fraction from chick embryo extract. Matsuhashi S, et al. **Jpn J Exp Med** 1989 Aug;59(4):139–47

Interaction of Epstein-Barr viral (EBV) origin of replication (oriP) with EBNA-1 and cellular anti-EBNA-1 proteins. Wen LT, et al. **Virology** 1990 Sep;178(1):293–6

[Clinical significance of anti-Ku antibodies] Mimori T, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:535–8 **(Jpn)**

ISOLATION & PURIFICATION

Double-stranded DNA binding protein HU. Wilson K, et al. **Basic Life Sci** 1989;51:133–40

Purification and DNA-binding properties of human papillomavirus type 16 E6 protein expressed in Escherichia coli. Imai Y, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1402–10

Insulin enhancer binding protein has helix-loop-helix structure. Shibasaki Y, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):314–21

Purification and characterization of a protein from HeLa cells that binds with high affinity to the estrogen response element, GGTCAGCGTGACC. Hughes MJ, et al. **Biochemistry** 1989 Nov 14;28(23):9137–42

Rapid purification of porcine colostral whey lactoferrin by affinity chromatography on single-stranded DNA-agarose. Characterization, amino acid composition and N-terminal amino acid sequence. Hutchens TW, et al. **Biochim Biophys Acta** 1989 Dec 21;999(3):323–9

Basic nuclear proteins of the histone-less eukaryote Crypthecodinium cohnii (Pyrrhophyta): two-dimensional electrophoresis and DNA-binding properties. Vernet G, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2–3):281–9

Fast gel electrophoresis to analyze DNA-protein interactions [published erratum appears in Biotechniques 1990 Jul;9(1):55] Ramanujam P, et al. **Biotechniques** 1990 May; 8(5):556–63

The liver-specific transcription factor LF-B1 contains a highly diverged homeobox DNA binding domain. Frain M, et al. **Cell** 1989 Oct 6;59(1):145–57

A thyroid-specific nuclear protein essential for tissue-specific expression of the thyroglobulin promoter. Civitareale D, et al. **EMBO J** 1989 Sep;8(9):2537–42

Identification, purification, and cloning of a polypeptide (PRTF/GRM) that binds to mating-specific promoter elements in yeast. Ammerer G. **Genes Dev** 1990 Feb; 4(2):299–312

Purification of a set of cellular polypeptides that bind to the purine-rich cis-regulatory element of herpes simplex virus immediate early genes. LaMarco KL, et al. **Genes Dev** 1989 Sep;3(9):1372–83

Identification and purification of a novel 120-kDa protein that recognizes the cAMP-responsive element. Andrisani O, et al. **J Biol Chem** 1990 Feb 25;265(6):3212–8

Purification and functional characterization of adenovirus ts111A DNA-binding protein. Fluorescence studies of protein-nucleic acid binding. Meyers ML, et al. **J Biol Chem** 1990 Apr 5;265(10):5875–82

Interaction of cellular proteins with the human T-cell leukemia virus type I transcriptional control region. Purification of cellular proteins that bind the 21-base pair repeat elements. Nyborg JK, et al. **J Biol Chem** 1990 May 15;265(14):8230–6

Archaebacterial histone-like proteins. Purification and characterization of helix stabilizing DNA binding proteins from the acidothermophile Sulfolobus acidocaldarius. Reddy TR, et al. **J Biol Chem** 1989 Oct 15; 264(29):17298–308

Purification of the upstream element factor of the adenovirus-2 major late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography. Moncollin V, et al. **J Chromatogr** 1990 Jun 27;510:243–50

Purification of DNA-binding proteins by site-specific DNA affinity chromatography. Eisenberg S, et al. **Methods Enzymol** 1990;182:521–9

GAL4 protein: purification, association with GAL80 protein, and conserved domain structure. Chasman DI, et al. **Mol Cell Biol** 1990 Jun;10(6):2916–23

Telomere structure in Euplotes crassus: characterization of DNA-protein interactions and isolation of a telomere-binding protein. Price CM. **Mol Cell Biol** 1990 Jul;10(7):3421–31

Purification and characterization of a novel factor which stimulates rat ribosomal gene transcription in vitro by interacting with enhancer and core promoter elements. Zhang J, et al. **Mol Cell Biol** 1990 Oct;10(10):5177–86

A novel method for the purification of the Xenopus transcription factor IIIA. Miller J, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9185–92

Isolation and functional characterization of TIF-IB, a factor that confers promoter specificity to mouse RNA polymerase I. Schnapp A, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1385–93

Purification of DNA polymerase II stimulatory factor I, a yeast single-stranded DNA-binding protein. Brown WC, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):677–81

Nuclear proteins which bind the human gamma-globin gene. Gumucio DL, et al. **Prog Clin Biol Res** 1989;316A:129–38

Purification of four erythroid cell proteins that bind the promoters of the murine globin genes. Sheffery M, et al. **Prog Clin Biol Res** 1989;316A:343–57

[Rapid isolation of cell-type specific DNA binding proteins] Wang Z. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Apr; 12(2):105–9 (Eng. Abstr.) **(Chi)**

[Nuclear factor A5 from the rat liver that requires a metal for specific interaction in vitro with distal element of the tyrosine aminotransferase gene promoter] Klenova EM, et al. **Mol Biol (Mosk)** 1989 Sep–Oct;23(5):1416–27 (Eng. Abstr.) **(Rus)**

METABOLISM

Regulation of gene expression by mercury. Helmann JD, et al. **Adv Inorg Biochem** 1990;8:33–61 (83 ref.)

Zinc fingers. South TL, et al. **Adv Inorg Biochem** 1990; 8:199–248 (157 ref.)

Zinc finger domains: hypotheses and current knowledge. Berg JM. **Annu Rev Biophys Biophys Chem** 1990;19:405–21 (81 ref.)

Regulation of brain-specific transcription of the mouse myelin basic protein gene: function of the NFI-binding site in the distal promoter. Aoyama A, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):648–53

Transcriptional activation by TGF beta 1 mediated by the dyad symmetry element (DSE) and the TPA responsive element (TRE). de Groot RP, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):1074–81

An unusually stable DNA binding protein can locate its specific binding site in the presence of high concentrations of urea. Jack RS. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):840–5

A DNA-binding homeodomain in histone H1 [published erratum appears in Biochem Biophys Res Commun 1990 Aug 16;170(3):1377] Mannerman RM, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):254–60

Transcription factor levels in medullary thyroid carcinoma cells differentiated by Harvey ras oncogene: c-jun is increased. Nelkin BD, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):140–6

DNA binding properties of Saccharomyces cerevisiae

chromatin associated ras-related protein Yp20. Valansi C, et al. **Biochem Biophys Res Commun** 1990 Mar 16; 167(2):628–36

The mouse glucocorticoid receptor DNA-binding domain is not phosphorylated in vivo. van der Weijden Benjamin WS, et al. **Biochem Biophys Res Commun** 1990 Jan 30; 166(2):931–6

Characterization of the human immunodeficiency virus type 1 enhancer-binding proteins from the human T-cell line Jurkat. Korner M, et al. **Biochem J** 1990 Jan 15; 265(2):547–54

Zinc fingers and molecular recognition. Structure and nucleic acid binding studies of an HIV zinc finger-like domain. South TL, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):123–9 (24 ref.)

Glucocorticoid receptor binding to calf thymus DNA. 1. Identification and characterization of a macromolecular factor involved in receptor-steroid complex binding to DNA. Cavanaugh AH, et al. **Biochemistry** 1990 Jan 30; 29(4):989–96

Effects of the bacteriophage T4 gene 41 and gene 32 proteins on RNA primer synthesis: coupling of leading- and lagging-strand DNA synthesis at a replication fork. Cha TA, et al. **Biochemistry** 1990 Feb 20;29(7):1791–8

Cooperativity and specificity in the interactions between DNA and the glucocorticoid receptor DNA-binding domain. Härd T, et al. **Biochemistry** 1990 Jun 5; 29(22):5358–64

Reduced DNA flexibility in complexes with a type II DNA binding protein. Härd T, et al. **Biochemistry** 1990 Jan 30; 29(4):959–65

The missing nucleoside experiment: a new technique to study recognition of DNA by protein. Hayes JJ, et al. **Biochemistry** 1989 Nov 28;28(24):9521–7

Complex formation between the adenovirus DNA-binding protein and single-stranded poly(rA). Cooperativity and salt dependence. Kuil ME, et al. **Biochemistry** 1989 Dec 12;28(25):9795–800

Stabilization of recA protein-ssDNA complexes by the single-stranded DNA binding protein of Escherichia coli. Morrical SW, et al. **Biochemistry** 1990 Jan 23;29(3):837–43

Comparison of cooperative and isolated site binding of T4 gene 32 protein to ssDNA by 1H NMR. Pan T, et al. **Biochemistry** 1989 Oct 31;28(22):8833–9

Differential sensitivity of chicken progesterone receptor forms to sulfhydryl reactive reagents. Peleg S, et al. **Biochemistry** 1989 Sep 5;28(18):7373–9

Sequence determinants for H1 binding on Escherichia coli lac and gal promoters. Rimsky S, et al. **Biochemistry** 1990 Apr 17;29(15):3765–71

Kinetics of binding of single-stranded DNA binding protein from Escherichia coli to single-stranded nuclei acids. Urbanke C, et al. **Biochemistry** 1990 Feb 20;29(7):1744–9

Structure calculations for single-stranded DNA complexed with the single-stranded DNA binding protein GP32 of bacteriophage T4: a remarkable DNA structure. van Amerongen H, et al. **Biochemistry** 1990 Jun 12; 29(23):5619–25

A nuclear matrix protein binds very tightly to DNA in the avian beta-globin gene enhancer. Zenk DW, et al. **Biochemistry** 1990 Jun 5;29(22):5221–6

Purification and properties of the DNA-binding protein HPB12 from Bacillus subtilis nucleoid. Salti V, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):161–7

The protein kinases tightly bound to DNA are present in normal tissues and in regenerating liver, but strongly decreased in hepatomas. Levy-Favatier F, et al. **Biochimie** 1989 Nov-Dec;71(11–12):1157–61

Chromosome reproduction: units of DNA for segregation. Taylor JH. **Bioessays** 1990 Jun;12(6):289–96 (41 ref.)

The 3'-flanking region shared by the human apolipoprotein AI and CIII gene regulates gene expression in cooperation with 5'-flanking elements. Haase A, et al. **Biol Chem Hoppe Seyler** 1990 Apr;371(4):375–82

DNA binding protein from Streptomyces hygroscopicus: detection of binding by gel retardation, sedimentation and effects on the transcriptional activity in vitro. Sarfert E, et al. **Biomed Biochim Acta** 1989;48(9):633–43

Protein complexation with DNA phosphates as a cause for DNA duplex destabilization: a thermodynamic model. Van Genderen MH, et al. **Biopolymers** 1989 Oct;28(10):1653–65

Detection of DNA-protein binding in western blots by phosphorus-labeled and biotinylated DNA probes. Herit M, et al. **Biotechniques** 1988 Apr;6(4):324–31

A streamlined, low ionic strength DNase I footprinting reaction. Hudson JM, et al. **Biotechniques** 1989 Sep; 7(8):812–5

Native genomic blotting: a novel approach to mapping DNase I hypersensitive sites and protein-DNA interactions at high resolution. Pauli U, et al. **Biotechniques** 1988 Feb; 6(2):142–7

Increased erythroid potentiating activity/tissue inhibitor of metalloproteinases and jun/fos transcription factor complex characterize tumor promoter-induced megakaryoblastic differentiation of K562 leukemia cells. Alitalo R, et al. **Blood** 1990 May 15;75(10):1974–82

Identification of ultraviolet-inducible proteins that bind to a TGACAACA sequence in the polyoma virus regulatory region. Ronai ZA, et al. **Cancer Res** 1990 Sep 1; 50(17):5374–81

Modular structure of a chicken lysozyme silencer: involvement of an unusual thyroid hormone receptor binding site. Baniahmad A, et al. **Cell** 1990 May 4; 61(3):505–14

Biochemical analysis of transcriptional activation by Jun: differential activity of c- and v-Jun. Bohmann D, et al. **Cell** 1989 Nov 17;59(4):709–17

Jun-B differs in its biological properties from, and is a negative regulator of, c-Jun. Chiu R, et al. **Cell** 1989 Dec 22;59(6):979–86

Synergistic activation by the glutamine-rich domains of human transcription factor Sp1. Courey AJ, et al. **Cell** 1989 Dec 1;59(5):827–36

Cyclic AMP stimulates somatostatin gene transcription by phosphorylation of CREB at serine 133. Gonzalez GA, et al. **Cell** 1989 Nov 17;59(4):675–80

The AAV origin binding protein Rep68 is an ATP-dependent site-specific endonuclease with DNA helicase activity. Im DS, et al. **Cell** 1990 May 4;61(3):447–57

The POU-specific domain of Pit-1 is essential for sequence-specific, high affinity DNA binding and DNA-dependent Pit-1–Pit-1 interactions. Ingraham HA, et al. **Cell** 1990 Jun 15;61(6):1021–33

A novel function of the transforming domain of E1a: repression of AP-1 activity. Offringa R, et al. **Cell** 1990 Aug 10;62(3):527–38

Mechanism of transcriptional activation by Sp1: evidence for coactivators. Pugh BF, et al. **Cell** 1990 Jun 29;61(7):1187–97

Jun-Fos and receptors for vitamins A and D recognize a common response element in the human osteocalcin gene. Schüle R, et al. **Cell** 1990 May 4;61(3):497–504

Differential transcriptional activation by Oct-1 and Oct-2: interdependent activation domains induce Oct-2 phosphorylation. Tanaka M, et al. **Cell** 1990 Feb 9; 60(3):375–86

Purified human I kappa B can rapidly dissociate the complex of the NF-kappa B transcription factor with its cognate DNA. Zabel U, et al. **Cell** 1990 Apr 20;61(2):255–65

Two puff-specific proteins bind within the 2.5 kb upstream region of the Drosophila melanogaster Sgs-4 gene. Saumweber H, et al. **Chromosoma** 1990 Apr;99(1):52–60

fos-jun conspiracy: implications for the cell. Verma IM, et al. **Ciba Found Symp** 1990;150:128–37; discussion 137–46 (22 ref.)

DNA binding proteins of Schistosoma mansoni recognizing a hexanucleotide motif occurring in genes regulated by steroids. Rumjanek FD, et al. **Comp Biochem Physiol [B]** 1989;94(4):807–12

Tissue distribution of radiolabelled human factor D in the male Sprague-Dawley rat. Nässberger L, et al. **Complement Inflamm** 1989;6(6):453–9

A yeast ribosomal DNA-binding protein that binds to the rDNA enhancer and also close to the site of Pol I transcription initiation is not important for enhancer functioning. Kulkens T, et al. **Curr Genet** 1989 Dec; 16(5–6):351–9

Association of nuclear oncoproteins fos and jun. Ransone LJ, et al. **Curr Opin Cell Biol** 1989 Jun;1(3):536–40 (35 ref.)

Effect of amino acid phosphorylation on the DNA binding properties of large T antigen. Klausing K, et al. **Curr Top Microbiol Immunol** 1989;144:31–5

Mapping contacts between unpurified human progesterone receptor and the hormone response element of mouse mammary tumor virus. Kühnel B, et al. **DNA** 1989 Dec; 8(10):703–13

Efficient binding of glucocorticoid receptor to its responsive element requires a dimer and DNA flanking sequences. Chalepakis G, et al. **DNA Cell Biol** 1990 Jun;9(5):355–68

Self-association of the Drosophila zeste protein is responsible for transvection effects. Bickel S, et al. **EMBO J** 1990 Sep; 9(9):2959–67

Nuclear factor I acts as a transcription factor on the MMTV promoter but competes with steroid hormone receptors for DNA binding. Brüggemeier U, et al. **EMBO J** 1990 Jul; 9(7):2233–9

Specificity switching of the P1 plasmid centromere-like site. Davis MA, et al. **EMBO J** 1990 Apr;9(4):991–8

Amino-terminal domain of NF1 binds to DNA as a dimer and activates adenovirus DNA replication. Gounari F, et al. **EMBO J** 1990 Feb;9(2):559–66

The collagenase gene promoter contains a TPA and oncogene-responsive unit encompassing the PEA3 and AP-1 binding sites. Gutman A, et al. **EMBO J** 1990 Jul; 9(7):2241–6

Evidence of a ter specific binding protein essential for the termination reaction of DNA replication in Escherichia coli. Kobayashi T, et al. **EMBO J** 1989 Aug;8(8):2435–41

The octamer-binding proteins form multi-protein--DNA complexes with the HSV alpha TIF regulatory protein. Kristie TM, et al. **EMBO J** 1989 Dec 20;8(13):4229–38

The putative transposase of transposable element Ac from Zea mays L. interacts with subterminal sequences of Ac. Kunze R, et al. **EMBO J** 1989 Nov;8(11):3177–85

Constitutive and IL-6-induced nuclear factors that interact with the human C-reactive protein promoter. Majello B, et al. **EMBO J** 1990 Feb;9(2):457–65

Cooperative binding of estrogen receptor to imperfect estrogen-responsive DNA elements correlates with their synergistic hormone-dependent enhancer activity. Martinez E, et al. **EMBO J** 1989 Dec 1;8(12):3781–91

Tax1 induction of the HTLV-I 21 bp enhancer requires cooperation between two cellular DNA-binding proteins. Montagne J, et al. **EMBO J** 1990 Mar;9(3):957–64

Three GCN4 responsive elements act synergistically as upstream and as TATA-like elements in the yeast TRP4 promoter. Mösch HU, et al. **EMBO J** 1990 Sep;9(9):2951–7

A role for the adenovirus inducible E2F transcription factor in a proliferation dependent signal transduction pathway. Mudryj M, et al. **EMBO J** 1990 Jul;9(7):2179–84

The basic region of Fos mediates specific DNA binding. Nakabeppu Y, et al. **EMBO J** 1989 Dec 1;8(12):3833–41

The role of FIS in trans activation of stable RNA operons of E. coli. Nilsson L, et al. **EMBO J** 1990 Mar;9(3):727–34

Cyclosporin A suppresses the expression of the interleukin 2 gene by inhibiting the binding of lymphocyte-specific factors to the IL-2 enhancer. Randak C, et al. **EMBO J** 1990 Aug;9(8):2529–36

Asymmetrical recognition of the palindromic AP1 binding site (TRE) by Fos protein complexes. Risse G, et al. **EMBO J** 1989 Dec 1;8(12):3825–32

A single DNA-binding transcription factor is sufficient for activation from a distant enhancer and/or from a promoter position. Schatt MD, et al. **EMBO J** 1990 Feb;9(2):481–7

A growth-dependent transcription initiation factor (TIF-IA) interacting with RNA polymerase I regulates mouse ribosomal RNA synthesis. Schnapp A, et al. **EMBO J** 1990 Sep;9(9):2857–63

Action at a distance in Mu DNA transposition: an enhancer-like element is the site of action of supercoiling relief activity by integration host factor (IHF). Surette MG, et al. **EMBO J** 1989 Nov;8(11):3483–9

Protein-DNA interactions at steroid hormone regulated genes. Scheidereit C, et al. **Endocr Res** 1989;15(4):417–40

Binding of nuclear proteins to the enhancer elements of the rat apolipoprotein A-I gene. Dai PH, et al. **Eur J Biochem** 1990 Jun 20;190(2):305–10

Translational regulation of M13 gene II protein by its cognate single-stranded DNA binding protein. Zaman GJ, et al. **Eur J Biochem** 1990 Apr 20;189(1):119–24

A putative AP-2 binding site in the 5' flanking region of the mouse POMC gene. Bishop JF, et al. **FEBS Lett** 1990 May 7;264(1):125–9

Localization of an estrogen receptor binding site near the promoter of the uteroglobin gene. López de Haro MS, et al. **FEBS Lett** 1990 Jun 4;265(1–2):20–2

Energy transfer in complexes of E. coli single-stranded DNA-binding protein with single-stranded poly-(2-thiouridylic acid). Tsao DH, et al. **FEBS Lett** 1990 Feb 26;261(2):389–91

A simple procedure for detecting proteins that bind preferentially to kDNA networks. Tittawella I. **FEMS Microbiol Lett** 1989 Aug;51(3):347–52

Bending of DNA by gene-regulatory proteins: construction and use of a DNA bending vector. Kim J, et al. **Gene** 1989 Dec 21;85(1):15–23

Definition of T-cell specific DNA-binding factors that interact with a 3'-silencer in the CD4+ T-cell gene Rpt-1. Patarca R, et al. **Gene** 1989 Dec 28;85(2):461–9

A yeast protein that influences the chromatin structure of UASG and functions as a powerful auxiliary gene activator. Chasman DI, et al. **Genes Dev** 1990 Apr;4(4):503–14

Differentiation-induced gene expression in 3T3-L1 preadipocytes: CCAAT/enhancer binding protein interacts with and activates the promoters of two adipocyte-specific genes. Christy RJ, et al. **Genes Dev** 1989 Sep;3(9):1323–35

Cell-cycle-regulated phosphorylation of DNA replication factor A from human and yeast cells. Din S, et al. **Genes Dev** 1990 Jun;4(6):968–77

Functional analysis of NTF-1, a developmentally regulated Drosophila transcription factor that binds neuronal cis elements. Dynlacht BD, et al. **Genes Dev** 1989 Nov; 3(11):1677–88

A DNA-binding protein containing two widely separated zinc finger motifs that recognize the same DNA sequence. Fan CM, et al. **Genes Dev** 1990 Jan;4(1):29–42

Identification and characterization of HAP4: a third component of the CCAAT-bound HAP2/HAP3 heteromer. Forsburg SL, et al. **Genes Dev** 1989 Aug; 3(8):1166–78

CCAAT/enhancer binding protein activates the promoter of the serum albumin gene in cultured hepatoma cells. Friedman AD, et al. **Genes Dev** 1989 Sep;3(9):1314–22

A novel enhancer in the immunoglobulin lambda locus is duplicated and functionally independent of NF kappa B. Hagman J, et al. **Genes Dev** 1990 Jun;4(6):978–92

Developmental modulation of protein binding to beta-globin gene regulatory sites within chicken erythrocyte nuclei. Jackson PD, et al. **Genes Dev** 1989 Dec;3(12A):1860–73

The Oct-2 protein binds cooperatively to adjacent octamer sites. LeBowitz JH, et al. **Genes Dev** 1989 Oct; 3(10):1625–38

Cytoplasmic activation of ISGF3, the positive regulator of interferon-alpha-stimulated transcription, reconstituted in vitro. Levy DE, et al. **Genes Dev** 1989 Sep;3(9):1362–71

NBP, a protein that specifically binds an enhancer of immunoglobulin gene rearrangement: purification and characterization. Li M, et al. **Genes Dev** 1989 Nov; 3(11):1801–13

Is CCAAT/enhancer-binding protein a central regulator of energy metabolism? McKnight SL, et al. **Genes Dev** 1989 Dec;3(12B):2021–4 (24 ref.)

Casein kinase II enhances the DNA binding activity of serum response factor. Manak JR, et al. **Genes Dev** 1990 Jun; 4(6):955–67

Tandem AP-1-binding sites within the human beta-globin

dominant control region function as an inducible enhancer in erythroid cells. Ney PA, et al. **Genes Dev** 1990 Jun; 4(6):993–1006

Different requirements for formation of Jun: Jun and Jun: Fos complexes. Smeal T, et al. **Genes Dev** 1989 Dec; 3(12B):2091–100

In situ nucleoprotein structure at the SV40 major late promoter: melted and wrapped DNA flank the start site. Zhang L, et al. **Genes Dev** 1989 Nov;3(11):1814–22

The X boxes from promoters of HLA class II B genes at different loci do not complete for nuclear protein-specific binding. Turco E, et al. **Immunogenetics** 1990;32(2):117–28

DNA binding factors that bind to the negative regulatory element of the human immunodeficiency virus-1: regulation by nef. Guy B, et al.
J Acquir Immune Defic Syndr 1990;3(8):797–809

A membrane protein with similarity to N-methylphenylalanine pilins is essential for DNA binding by competent Bacillus subtilis. Breitling R, et al.
J Bacteriol 1990 Mar;172(3):1499–508

A sequence-specific DNA-binding factor (VF1) from Anabaena sp. strain PCC 7120 vegetative cells binds to three adjacent sites in the xisA upstream region. Chastain CJ, et al. **J Bacteriol** 1990 Sep;172(9):5044–51

DNA footprint analysis of the transcriptional activator proteins NodD1 and NodD3 on inducible nod gene promoters. Fisher RF, et al. **J Bacteriol** 1989 Oct; 171(10):5492–502

Integration host factor is a negative effector of in vivo and in vitro expression of ompC in Escherichia coli. Huang L, et al. **J Bacteriol** 1990 Sep;172(9):5293–8

Interaction of integration host factor from Escherichia coli with the integration region of the Haemophilus influenzae bacteriophage HP1. Hwang ES, et al. **J Bacteriol** 1990 Sep; 172(9):4852–60

virG, an Agrobacterium tumefaciens transcriptional activator, initiates translation at a UUG codon and is a sequence-specific DNA-binding protein. Pazour GJ, et al. **J Bacteriol** 1990 Mar;172(3):1241–9

Role of the promoter in activation of transcription by nitrogen regulator I phosphate in Escherichia coli. Ray L, et al. **J Bacteriol** 1990 Feb;172(2):818–23

Intrinsic bends and integration host factor binding at F plasmid oriT. Tsai MM, et al. **J Bacteriol** 1990 Aug; 172(8):4603–9

Integration host factor increases the transpositional immunity conferred by gamma delta ends. Wiater LA, et al.
J Bacteriol 1990 Sep;172(9):4951–8

DNA binding properties of purified replication initiator protein (Rep) encoded by plasmid pSC101. Sugiura S, et al. **J Biochem (Tokyo)** 1990 Mar;107(3):369–76

Identification of nuclear proteins that bind to the glucocorticoid regulatory region of a rat alpha 2u-globulin gene. Addison WR, et al. **J Biol Chem** 1989 Dec 25; 264(36):21891–5

Zinc fingers and other metal-binding domains. Elements for interactions between macromolecules. Berg JM.
J Biol Chem 1990 Apr 25;265(12):6513–6 (70 ref.)

Phenomenological theory of gel electrophoresis of protein-nucleic acid complexes. Cann JR. **J Biol Chem** 1989 Oct 15;264(29):17032–40

An NF1-related vitellogenin activator element mediates transcription from the estrogen-regulated Xenopus laevis vitellogenin promoter. Chang TC, et al. **J Biol Chem** 1990 May 15;265(14):8176–82

Induction by cycloheximide of the glycoprotein hormone alpha-subunit gene in human tumor cell lines and identification of a possible negative regulatory factor. Cox GS, et al. **J Biol Chem** 1990 Aug 5;265(22):13190–7

Protein-protein interactions facilitate DNA binding by the glucocorticoid receptor DNA-binding domain.
Dahlman-Wright K, et al. **J Biol Chem** 1990 Aug 15; 265(23):14030–5

Serum stimulation of fibronectin gene expression appears to result from rapid serum-induced binding of nuclear proteins to a cAMP response element [published erratum appears in J Biol Chem 1990 May 15;265(14):8346] Dean DC, et al. **J Biol Chem** 1990 Feb 25;265(6):3522–7

ABF1 binding sites in yeast RNA polymerase genes. Della Seta F, et al. **J Biol Chem** 1990 Sep 5;265(25):15168–75

Protein-protein contacts in the glucocorticoid receptor homodimer influence its DNA binding properties. Eriksson P, et al. **J Biol Chem** 1990 Feb 25;265(6):3535–42

Identification and characterization of an adenovirus 2 major late promoter CAP sequence DNA-binding protein. Garfinkel S, et al. **J Biol Chem** 1990 Jun 25; 265(18):10309–19

LAC9 DNA-binding domain coordinates two zinc atoms per monomer and contacts DNA as a dimer. Halvorsen YC, et al. **J Biol Chem** 1990 Aug 5;265(22):13283–9

Tumor necrosis factors-alpha and -beta bind to the same two types of tumor necrosis factor receptors and maximally activate the transcription factor NF-kappa B at low receptor occupancy and within minutes after receptor binding. Hohmann HP, et al. **J Biol Chem** 1990 Sep 5; 265(25):15183–8

"Macromolecular crowding": thermodynamic consequences for protein-protein interactions within the T4 DNA replication complex. Jarvis TC, et al. **J Biol Chem** 1990 Sep 5;265(25):15160–7

Two different negative and one positive regulatory factors interact with a short promoter segment of the alpha 1 (I) collagen gene. Karsenty G, et al. **J Biol Chem** 1990 Jun 15;265(17):9934–42

The human alpha subunit glycoprotein hormone gene utilizes a unique CCAAT binding factor. Kennedy GC, et al.
J Biol Chem 1990 Apr 15;265(11):6279–85

The role of human single-stranded DNA binding protein and its individual subunits in simian virus 40 DNA replication. Kenny MK, et al. **J Biol Chem** 1990 May 5; 265(13):7693–700

A pancreatic islet cell-specific enhancer-like element in the glucagon gene contains two domains binding distinct cellular proteins. Knepel W, et al. **J Biol Chem** 1990 May 25;265(15):8725–35

The preference for a 3' homologous end is intrinsic to RecA-promoted strand exchange. Konforti BB, et al.
J Biol Chem 1990 Apr 25;265(12):6916–20

Plant nuclear factor ASF-1 binds to an essential region of the nopaline synthase promoter. Lam E, et al.
J Biol Chem 1990 Jun 15;265(17):9909–13

Properties of recA441 protein-catalyzed DNA strand exchange can be attributed to an enhanced ability to compete with SSB protein. Lavery PE, et al.
J Biol Chem 1990 Mar 5;265(7):4004–10

Hormone and DNA binding activity of a purified human thyroid hormone nuclear receptor expressed in Escherichia coli. Lin KH, et al. **J Biol Chem** 1990 Mar 25;265(9):5161–5

Transcriptional regulation of the bovine CYP17 (P-450(17)alpha) gene. Identification of two cAMP regulatory regions lacking the consensus cAMP-responsive element (CRE). Lund J, et al. **J Biol Chem** 1990 Feb 25; 265(6):3304–12

A DNA motif related to the cAMP-responsive element and an exon-located activator protein-2 binding site in the human tissue-type plasminogen activator gene promoter cooperate in basal expression and convey activation by phorbol ester and cAMP. Medcalf RL, et al.
J Biol Chem 1990 Aug 25;265(24):14618–26

Protein kinase C-independent activation of nuclear factor kappa B by tumor necrosis factor. Meichle A, et al.
J Biol Chem 1990 May 15;265(14):8339–43

Phosphorylation of cellular proteins regulates their binding to the cAMP response element. Merino A, et al.
J Biol Chem 1989 Dec 15;264(35):21266–76

Elimination and reconstitution of the requirement for hormone in promoting temperature-dependent transformation of cytosolic glucocorticoid receptors to the DNA-binding state. Meshinchi S, et al. **J Biol Chem** 1990 Mar 25;265(9):4863–70

Selective molybdate-directed covalent modification of sulfhydryl groups in the steroid-binding versus the DNA-binding domain of the glucocorticoid receptor. Meshinchi S, et al. **J Biol Chem** 1990 Jul 15;265(20):11643–9

Nuclear factors AF-1 and C/EBP bind to the human ApoB gene promoter and modulate its transcriptional activity in hepatic cells. Metzger S, et al. **J Biol Chem** 1990 Jun 15; 265(17):9978–83

DNA binding activity and transcriptional activator function of the human B-myb protein compared with c-MYB. Mizuguchi G, et al. **J Biol Chem** 1990 Jun 5;265(16):9280–4

Substrate and DNA binding to a 50-residue peptide fragment of DNA polymerase I. Comparison with the enzyme. Mullen GP, et al. **J Biol Chem** 1989 Nov 25; 264(33):19637–47

A novel function for zinc(II) in a nucleic acid-binding protein. Contribution of zinc(II) toward the cooperativity of bacteriophage T4 gene 32 protein binding. Nadler SG, et al. **J Biol Chem** 1990 Jun 25;265(18):10389–94

Activation of the dioxin and glucocorticoid receptors to a DNA binding state under cell-free conditions. Nemoto T, et al. **J Biol Chem** 1990 Feb 5;265(4):2269–77

Interaction of host cell proteins with the human T-cell leukemia virus type I transcriptional control region. II. A comprehensive map of protein-binding sites facilitates construction of a simple chimeric promoter responsive to the viral tax2 gene product. Nyborg JK, et al.
J Biol Chem 1990 May 15;265(14):8237–42

Identification of a growth hormone gene promoter repressor element and its cognate double- and single-stranded DNA-binding proteins. Pan WT, et al. **J Biol Chem** 1990 Apr 25;265(12):7022–8

Characterization of DNA-protein complex formation in nuclear extracts with a sequence from the herpes simplex virus thymidine kinase gene. Papavassiliou AG, et al.
J Biol Chem 1990 Jan 25;265(3):1648–57

Interaction of cell and virus proteins with DNA sequences encompassing the promoter/regulatory and leader regions of the herpes simplex virus thymidine kinase gene. Papavassiliou AG, et al. **J Biol Chem** 1990 Jun 5; 265(16):9402–12

Elongation by Escherichia coli RNA polymerase is blocked in vitro by a site-specific DNA binding protein. Pavco PA, et al. **J Biol Chem** 1990 Jun 15;265(17):9960–9

RecA protein promoted homologous pairing in vitro. Pairing between linear duplex DNA bound to HU Protein (nucleosome cores) and nucleoprotein filaments of recA protein-single-stranded DNA. Ramdas J, et al.
J Biol Chem 1989 Oct 15;264(29):17395–400

Purification and biochemical characterization of hepatocyte nuclear factor 2 involved in liver-specific transcription of the human alpha 1-antitrypsin gene. Rangan VS, et al.
J Biol Chem 1990 May 25;265(15):8874–9

Stoichiometry of DNA binding by the bacteriophage SP01-encoded type II DNA-binding protein TF1. Schneider GJ, et al. **J Biol Chem** 1990 Jun 25; 265(18):10198–200

Selective binding to DNA base pair mismatches by proteins from human cells. Stephenson C, et al. **J Biol Chem** 1989 Dec 15;264(35):21177–82

Contacts between the factor TUF and RPG sequences. Vignais ML, et al. **J Biol Chem** 1990 Aug 25; 265(24):14669–74

Characterization of the integration host factor binding site in the ilvPG1 promoter region of the ilvGMEDA operon of Escherichia coli. Winkelman JW, et al. **J Biol Chem** 1990 Jun 15;265(17):10055–60

Ligand-specific transactivation of gene expression by a derivative of the human glucocorticoid receptor expressed in yeast. Wright AP, et al. **J Biol Chem** 1990 Sep 5; 265(25):14763–9

The carboxyl-terminal repeat domain of RNA polymerase II is not required for transcription factor Sp1 to function in vitro. Zehring WA, et al. **J Biol Chem** 1990 May 25; 265(15):8351–3

Localization of DNA protein-binding sites in the proximal and distal promoter regions of the mouse alpha-fetoprotein gene. Zhang DE, et al. **J Biol Chem** 1990 Feb 25; 265(6):3382–91

Specificity of RepC protein in plasmid pT181 DNA replication. Zock JM, et al. **J Biol Chem** 1990 Feb 25; 265(6):3484–8

Selection of DNA binding sites by regulatory proteins. Functional specificity and pseudosite competition. Berg OG. **J Biomol Struct Dyn** 1988 Oct;6(2):275–97

Theoretical studies on alpha-helix—DNA interactions. Gopalakrishnan B, et al. **J Biomol Struct Dyn** 1988 Feb; 5(4):859–71

A refined calculation of the solution dimensions of the complex between gene 32 protein and single stranded DNA based on estimates of the bending persistence length. Kuil ME, et al. **J Biomol Struct Dyn** 1990 Feb;7(4):943–57

Specificity of the binding of fd gene 5 protein to polydeoxyribonucleotides. Sang BC, et al.
J Biomol Struct Dyn 1989 Dec;7(3):693–706

DNA-binding activity of Jun is increased through its interaction with Fos. Allegretto EA, et al.
J Cell Biochem 1990 Apr;42(4):193–206

Loss of a DNA-protein complex correlates with extinguished major histocompatibility complex class II expression in a human B cell. Finn PW, et al. **J Exp Med** 1990 Jun 1; 171(6):2159–64

A prominent serine-rich region in Vmw175, the major transcriptional regulator protein of herpes simplex virus type 1, is not essential for virus growth in tissue culture. Paterson T, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1775–83

Phosphorylation of adenovirus DNA-binding protein. Russell WC, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3249–59

A new transcription element in the JC virus enhancer. Tamura T, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1829–33

Two binding sites for the herpes simplex virus type 1 UL9 protein are required for efficient activity of the oriS replication origin. Weir HM, et al. **J Gen Virol** 1990 Jun; 71 (Pt 6):1379–85

Papillomavirus trans-activator protein E2 activates expression from the promoter for the ribonucleotide reductase large subunit from herpes simplex virus type 2. Wymer JP, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1817–21

The location of binding sites on C1q for DNA. Uwatoko S, et al. **J Immunol** 1990 May 1;144(9):3484–8

Integration host factor stimulates the phage lambda pL promoter. Giladi H, et al. **J Mol Biol** 1990 May 5; 213(1):109–21

Replication enhancer-independent mutation increases the co-operativity with which an initiator protein binds its origin. Greenstein D, et al. **J Mol Biol** 1990 Jan 5; 211(1):91–101

Sequence-specific methylation in a downstream region of the late E2A promoter of adenovirus type 2 DNA prevents protein binding. Hermann R, et al. **J Mol Biol** 1989 Nov 20;210(2):411–5

Conformational changes in bacteriophage phi 29 connector prevents DNA-binding activity. Herranz L, et al.
J Mol Biol 1990 May 20;213(2):263–73

Fibroin gene promoter contains a cluster of homeodomain binding sites that interact with three silk gland factors. Hui CC, et al. **J Mol Biol** 1990 Jun 20;213(4):651–70

Identification of the replication terminator protein binding sites in the terminus region of the Bacillus subtilis chromosome and stoichiometry of the binding. Lewis PJ, et al. **J Mol Biol** 1990 Jul 5;214(1):73–84

Characterization of the DNA binding activity of stable RecA-DNA complexes. Interaction between the two DNA binding sites within RecA helical filaments. Müller B, et al. **J Mol Biol** 1990 Mar 5;212(1):97–112

Synergistic activation of transcription by multiple binding sites for NF-kappa B even in absence of co-operative factor binding to DNA. Pettersson M, et al.
J Mol Biol 1990 Jul 20;214(2):373–80

Analysis of glucocorticoid receptor subspecies binding to DNA-cellulose and isolated nuclei. Gruol DJ, et al.
J Steroid Biochem 1989;34(1–6):319–23

DNA bending induced by specific interaction of decamer binding proteins with immunoglobulin gene control sequences. Brack C, et al. **J Ultrastruct Mol Struct Res** 1988 Nov-Dec;101(2–3):145–58

Programmed factor binding to simian virus 40 GC-box replication and transcription control sequences. Buchanan RL, et al. J Virol 1990 Jan;64(1):347–53
The adenovirus DNA-binding protein stimulates the rate of transcription directed by adenovirus and adeno-associated virus promoters. Chang LS, et al. J Virol 1990 May; 64(5):2103–9
Interaction of enhancer-binding protein EBP1 (NF-kappa B) with the human immunodeficiency virus type 1 enhancer. Clark L, et al. J Virol 1990 Mar;64(3):1335–44
A single element within the hepatitis B virus enhancer binds multiple proteins and responds to multiple stimuli. Faktor O, et al. J Virol 1990 Apr;64(4):1861–3
Structural diversity and nuclear protein binding sites in the long terminal repeats of feline leukemia virus. Fulton R, et al. J Virol 1990 Apr;64(4):1675–82
Activity of simian DNA-binding factors is altered in the presence of simian virus 40 (SV40) early proteins: characterization of factors binding to elements involved in activation of the SV40 late promoter. Gallo GJ, et al. J Virol 1990 Jan;64(1):173–84
The essential 65-kilodalton DNA-binding protein of herpes simplex virus stimulates the virus-encoded DNA polymerase. Gallo ML, et al. J Virol 1989 Dec; 63(12):5023–9
DNA-binding proteins that interact with the long terminal repeat of radiation leukemia virus. Gorska-Flipot I, et al. J Virol 1990 Apr;64(4):1566–72
Structural requirements in the herpes simplex virus type 1 transactivator Vmw65 for interaction with the cellular octamer-binding protein and target TAATGARAT sequences. Greaves RF, et al. J Virol 1990 Jun; 64(6):2716–24
Purification of a mouse nuclear factor that binds to both the A and B cores of the polyomavirus enhancer. Kamachi Y, et al. J Virol 1990 Oct;64(10):4808–19
A host cell protein binds to a highly conserved sequence element (pac-2) within the cytomegalovirus a sequence. Kemble GW, et al. J Virol 1989 Nov;63(11):4715–28
Adenovirus early region 3 promoter regulation by E1A/E1B is independent of alterations in DNA binding and gene activation of CREB/ATF and AP1. Kornuc M, et al. J Virol 1990 May;64(5):2004–13
The adenovirus E4 17-kilodalton protein complexes with the cellular transcription factor E2F, altering its DNA-binding properties and stimulating E1A-independent accumulation of E2 mRNA. Marton MJ, et al. J Virol 1990 May; 64(5):2345–59
CREB regulation of cellular cyclic AMP-responsive and adenovirus early promoters. Muchardt C, et al. J Virol 1990 Sep;64(9):4296–305
A member of the activator protein 1 family found in keratinocytes but not in fibroblasts required for transcription from a human papillomavirus type 18 promoter. Offord EA, et al. J Virol 1990 Oct;64(10):4792–8
Involvement of nuclear factor I-binding sites in control of Akv virus gene expression. Olsen HS, et al. J Virol 1990 Sep;64(9):4152–61
Inducible nuclear factor binding to the kappa B elements of the human immunodeficiency virus enhancer in T cells can be blocked by cyclosporin A in a signal-dependent manner. Schmidt A, et al. J Virol 1990 Aug;64(8):4037–41
Tandemly repeated hexamer sequences within the beta interferon promoter can function as an inducible regulatory element in activation by the adenovirus E1B 19-kilodalton protein. Shiroki K, et al. J Virol 1990 Jun;64(6):3063–8
Analysis of E1A-mediated growth regulation functions: binding of the 300-kilodalton cellular product correlates with E1A enhancer repression function and DNA synthesis-inducing activity. Stein RW, et al. J Virol 1990 Sep;64(9):4421–7
Adenovirus DNA-binding protein forms a multimeric protein complex with double-stranded DNA and enhances binding of nuclear factor I. Stuiver MH, et al. J Virol 1990 Jan;64(1):379–86
Characterization of a major DNA-binding domain in the herpes simplex virus type 1 DNA-binding protein (ICP8). Wang YS, et al. J Virol 1990 May;64(5):2082–9
Proteins of viral and cellular origin bind to the Aleutian disease virus (ADV) DNA 3'-terminal hairpin: presentation of a scheme for encapsidation of ADV DNA. Willwand K, et al. J Virol 1990 Apr;64(4):1598–605
Mapping of helicase and helicase substrate-binding domains on simian virus 40 large T antigen. Wun-Kim K, et al. J Virol 1990 May;64(5):2014–20
Identification of a transformation-sensitive nuclear protein from normal human fibroblasts that specifically interacts with minute virus of mice DNA and correlates with cell resistance to the parvovirus. Avalosse BL, et al. Mol Carcinog 1989;2(5):245–51
Two nearby sites bind zen protein independently. Chen HZ, et al. Mol Cell Biochem 1989 Oct 5;90(1):27–35
A downstream-element-binding factor facilitates assembly of a functional preinitiation complex at the simian virus 40 major late promoter. Ayer DE, et al. Mol Cell Biol 1990 Jul;10(7):3635–45
Transcriptional regulation of the transforming growth factor beta 1 promoter by v-src gene products is mediated through the AP-1 complex. Birchenall-Roberts MC, et al. Mol Cell Biol 1990 Sep;10(9):4978–83
ARS binding factor I of the yeast Saccharomyces cerevisiae binds to sequences in telomeric and nontelomeric autonomously replicating sequences. Biswas SB, et al. Mol Cell Biol 1990 Feb;10(2):810–5
Evidence for multiple major histocompatibility class II X-box binding proteins. Celada A, et al. Mol Cell Biol 1989 Nov;9(11):5219–22
Transcriptional control of the Saccharomyces cerevisiae PGK gene by RAP1. Chambers A, et al. Mol Cell Biol 1989 Dec;9(12):5516–24
A transcriptionally active form of TFIIIC is modified in poliovirus-infected HeLa cells. Clark ME, et al. Mol Cell Biol 1990 Oct;10(10):5106–13
RNA polymerase II transcription termination is mediated specifically by protein binding to a CCAAT box sequence. Connelly S, et al. Mol Cell Biol 1989 Nov;9(11):5254–9
A nuclear factor I-like activity and a liver-specific repressor govern estrogen-regulated in vitro transcription from the Xenopus laevis vitellogenin B1 promoter. Corthésy B, et al. Mol Cell Biol 1989 Dec;9(12):5548–62
Sequence elements required for activity of a murine major histocompatibility complex class II promoter bind common and cell-type-specific nuclear factors. Dedrick RL, et al. Mol Cell Biol 1990 Feb;10(2):593–604
Highly repeated sites in the apolipoprotein(a) gene recognized by methylated DNA-binding protein, a sequence-specific DNA-binding protein. Ehrlich KC, et al. Mol Cell Biol 1990 Sep;10(9):4957–60
Identification of the DNA damage-responsive element of RNR2 and evidence that four distinct cellular factors bind it. Elledge SJ, et al. Mol Cell Biol 1989 Dec;9(12):5373–86
Synergy between the NF-E1 erythroid-specific transcription factor and the CACCC factor in the erythroid-specific promoter of the human porphobilinogen deaminase gene. Frampton J, et al. Mol Cell Biol 1990 Jul;10(7):3838–42
Transcriptional activation and repression by Fos are independent functions: the C terminus represses immediate-early gene expression via CArG elements. Gius D, et al. Mol Cell Biol 1990 Aug;10(8):4243–55
A new myocyte-specific enhancer-binding factor that recognizes a conserved element associated with multiple muscle-specific genes. Gossett LA, et al. Mol Cell Biol 1989 Nov;9(11):5022–33
E2F from adenovirus-infected cells binds cooperatively to DNA containing two properly oriented and spaced recognition sites. Hardy S, et al. Mol Cell Biol 1989 Oct; 9(10):4495–506
The mouse albumin enhancer contains a negative regulatory element that interacts with a novel DNA-binding protein. Herbst RS, et al. Mol Cell Biol 1990 Aug;10(8):3896–905
A constitutive damage-specific DNA-binding protein is synthesized at higher levels in UV-irradiated primate cells. Hirschfeld S, et al. Mol Cell Biol 1990 May;10(5):2041–8
Upstream regulatory sequences of the yeast RNR2 gene include a repression sequence and an activation site that binds the RAP1 protein. Hurd HK, et al. Mol Cell Biol 1989 Dec;9(12):5359–72
Interaction of a liver-specific factor with an enhancer 4.8 kilobases upstream of the phosphoenolpyruvate carboxykinase gene. Ip YT, et al. Mol Cell Biol 1990 Jul; 10(7):3770–81
Extinction of phosphoenolpyruvate carboxykinase gene expression is associated with loss of a specific chromatin-binding protein from a far upstream domain. Ip YT, et al. Mol Cell Biol 1990 Jul;10(7):3782–7
mXBP/CRE-BP2 and c-Jun form a complex which binds to the cyclic AMP, but not to the 12-O-tetradecanoylphorbol-13-acetate, response element. Ivashkiv LB, et al. Mol Cell Biol 1990 Apr;10(4):1609–21
Purification of a protein binding to the CDEI subregion of Saccharomyces cerevisiae centromere DNA. Jiang WD, et al. Mol Cell Biol 1989 Dec;9(12):5585–93
Induction of a cellular enzyme for energy metabolism by transforming domains of adenovirus E1a. Kaddurah-Daouk R, et al. Mol Cell Biol 1990 Apr;10(4):1476–83
Definition of the minimal simian virus 40 large T antigen- and adenovirus E1A-binding domain in the retinoblastoma gene product. Kaelin WG Jr, et al. Mol Cell Biol 1990 Jul;10(7):3761–9
A 22-amino-acid peptide restores DNA-binding activity to dimerization-defective mutants of the estrogen receptor. Lees JA, et al. Mol Cell Biol 1990 Oct;10(10):5529–31
Sp1 can displace GHF-1 from its distal binding site and stimulate transcription from the growth hormone gene promoter. Lemaigre FP, et al. Mol Cell Biol 1990 Apr; 10(4):1811–4
UV-induced early-domain binding factor as the limiting component of simian virus 40 DNA amplification in rodent cells. Lücke-Huhle C, et al. Mol Cell Biol 1989 Nov; 9(11):4812–18
A DNA-binding protein is required for termination of transcription by RNA polymerase I in Xenopus laevis. McStay B, et al. Mol Cell Biol 1990 Jun;10(6):2793–800
Properties of the DNA-binding domain of the simian virus 40 large T antigen. McVey D, et al. Mol Cell Biol 1989 Dec;9(12):5525–36
M-CAT binding factor, a novel trans-acting factor governing muscle-specific transcription. Mar JH, et al. Mol Cell Biol 1990 Aug;10(8):4271–83
Identification, nuclear localization, and DNA-binding activity of the zinc finger protein encoded by the Evi-1 myeloid transforming gene. Matsugi T, et al. Mol Cell Biol 1990 Mar;10(3):1259–64
Alteration of a single nucleotide allows efficient binding of H2TF1/KBF1 to the immunoglobulin kappa enhancer B motif. Mauxion F, et al. Mol Cell Biol 1989 Aug; 9(8):3548–52
Transcription initiation from the dihydrofolate reductase promoter is positioned by HIP1 binding at the initiation site. Means AL, et al. Mol Cell Biol 1990 Feb;10(2):653–61
Nuclear localization of the adenovirus DNA-binding protein: requirement for two signals and complementation during viral infection. Morin N, et al. Mol Cell Biol 1989 Oct; 9(10):4372–80
Genomic footprinting: detection of putative regulatory proteins in the promoter region of the interferon alpha-1 gene in normal human tissues. Palmieri M, et al. Mol Cell Biol 1990 Jun;10(6):2554–61
Evidence that xeroderma pigmentosum cells from complementation group E are deficient in a homolog of yeast photolyase. Patterson M, et al. Mol Cell Biol 1989 Nov;9(11):5105–12
Tumor necrosis factor alpha regulates expression of the major histocompatibility complex class II-associated invariant chain by binding of an NF-kappa B-like factor to a promoter element. Pessara U, et al. Mol Cell Biol 1990 Aug;10(8):4146–54
The DNA-binding activity of transcription factor PTF1 parallels the synthesis of pancreas-specific mRNAs during mouse development. Petrucco S, et al. Mol Cell Biol 1990 Jan;10(1):254–64
rUBF, an RNA polymerase I transcription factor from rats, produces DNase I footprints identical to those produced by xUBF, its homolog from frogs. Pikaard CS, et al. Mol Cell Biol 1990 Jul;10(7):3810–2
Minimal subenhancer requirements for high-level polyomavirus DNA replication: a cell-specific synergy of PEA3 and PEA1 sites. Rochford R, et al. Mol Cell Biol 1990 Sep;10(9):4996–5001
Identification of Schizosaccharomyces pombe transcription factor PGA4, which binds cooperatively to Saccharomyces cerevisiae GAL4-binding sites. Ruden DM. Mol Cell Biol 1990 Apr;10(4):1432–8
DNA-binding protein activated by gamma radiation in human cells. Singh SP, et al. Mol Cell Biol 1990 Oct; 10(10):5279–85
trans activation of human alcohol dehydrogenase gene expression in hepatoma cells by C/EBP molecules bound in a novel arrangement just 5' and 3' to the TATA box. Stewart MJ, et al. Mol Cell Biol 1990 Sep;10(9):5007–10
A naturally occurring gamma globin gene mutation enhances SP1 binding activity. Sykes K, et al. Mol Cell Biol 1990 Jan;10(1):95–102
Mechanism of suppression of the long terminal repeat of Moloney leukemia virus in mouse embryonal carcinoma cells. Tsukiyama T, et al. Mol Cell Biol 1989 Nov; 9(11):4670–6
DNA-binding and transcriptional properties of human transcription factor TFIID after mild proteolysis. Van Dyke MW, et al. Mol Cell Biol 1990 Jul;10(7):3415–20
Identification of a Saccharomyces cerevisiae DNA-binding protein involved in transcriptional regulation. Wang H, et al. Mol Cell Biol 1990 Apr;10(4):1743–53
A B-cell-specific nuclear protein that binds to DNA sites 5' to immunoglobulin S alpha tandem repeats is regulated during differentiation. Waters SH, et al. Mol Cell Biol 1989 Dec;9(12):5594–601
A nonerythroid GATA-binding protein is required for function of the human preproendothelin-1 promoter in endothelial cells. Wilson DB, et al. Mol Cell Biol 1990 Sep; 10(9):4854–62
Detection of an immunoglobulin switch region-specific DNA-binding protein in mitogen-stimulated mouse splenic B cells. Wuerffel RA, et al. Mol Cell Biol 1990 Apr; 10(4):1714–8
A cellular factor binds to the herpes simplex virus type 1 transactivator Vmw65 and is required for Vmw65-dependent protein-DNA complex assembly with Oct-1. Xiao P, et al. Mol Cell Biol 1990 Sep;10(9):4974–7
Cell type-specific protein-DNA interactions in the human zeta-globin upstream promoter region: displacement of Sp1 by the erythroid cell-specific factor NF-E1. Yu CY, et al. Mol Cell Biol 1990 Jan;10(1):282–94
Interleukin-6 induction by tumor necrosis factor and interleukin-1 in human fibroblasts involves activation of a nuclear factor binding to a kappa B-like sequence. Zhang YH, et al. Mol Cell Biol 1990 Jul;10(7):3818–23
Binding of androgen-receptor complexes to alpha 2u-globulin genes and to the long terminal repeat of mouse mammary tumor virus. Van Dijck P, et al. Mol Cell Endocrinol 1989 Jul;64(2):195–204
Multiple proteins bind to the P2 promoter region of the zein gene pMS1 of maize. Maier UG, et al. Mol Gen Genet 1990 Apr;221(2):164–70
Formation of composite nucleoprotein complexes near the transcription start of the Shrunken gene from maize. Springer B, et al. Mol Gen Genet 1990 Mar;221(1):94–101
Sequences of the CyIIIa actin gene regulatory domain bound specifically by sea urchin embryo nuclear proteins. Thézé N, et al. Mol Reprod Dev 1990 Feb;25(2):110–22
Muscle-specific gene expression controlled by a regulatory element lacking a MyoD1-binding site [published erratum appears in Nature 1990 May 24;345(6273):364] Baldwin TJ, et al. Nature 1989 Oct 26;341(6244):716–20
Yeast replication factor-A functions in the unwinding of the SV40 origin of DNA replication. Brill SJ, et al. Nature

1989 Nov 2;342(6245):92–5
Interference with the assembly of a virus–host transcription complex by peptide competition. Haigh A, et al. **Nature** 1990 Mar 15;344(6263):257–9
Binding of a Drosophila POU–domain protein to a sequence element regulating gene expression in specific dopaminergic neurons. Johnson WA, et al. **Nature** 1990 Feb 1;343(6257):467–70
Myb DNA binding inhibited by phosphorylation at a site deleted during oncogenic activation. Lüscher B, et al. **Nature** 1990 Apr 5;344(6266):517–22
Activators and targets. Ptashne M, et al. **Nature** 1990 Jul 26;346(6282):329–31 (39 ref.)
The Oct–1 homoeodomain directs formation of a multiprotein–DNA complex with the HSV transactivator VP16. Stern S, et al. **Nature** 1989 Oct 19;341(6243):624–30
A brain–specific transcription activator. Korner M, et al. **Neuron** 1989 Nov;3(5):563–72
Dynamic alterations occur in the levels and composition of transcription factor AP–1 complexes after seizure. Sonnenberg JL, et al. **Neuron** 1989 Sep;3(3):359–65
Detection of specific protein binding to the SV40 early promoter in vivo. Albrecht GR, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7945–63
Nuclear factors specifically bind to upstream sequences of a Xenopus laevis ribosomal protein gene promoter. Carnevali F, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8171–84
Transcription of the transforming genes of the oncogenic human papillomavirus–16 is stimulated by tumor promotors through AP1 binding sites. Chan WK, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):763–9
Transcriptional activation of human papillomavirus 16 by nuclear factor I, AP1, steroid receptors and a possibly novel transcription factor, PVF: a model for the composition of genital papillomavirus enhancers. Chong T, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):465–70
Nuclear factor–I and activator protein–2 bind in a mutually exclusive way to overlapping promoter sequences and trans–activate the human growth hormone gene. Courtois SJ, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):57–64
Improved detection of helix–turn–helix DNA–binding motifs in protein sequences. Dodd IB, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5019–26
Yeast general transcription factor GFI: sequence requirements for binding to DNA and evolutionary conservation. Dorsman JC, et al. **Nucleic Acids Res** 1990 May 11;18(9):2769–76
The major transcriptional regulatory protein of herpes simplex virus type 1 includes a protease resistant DNA binding domain. Everett RD, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4579–85
Searching for and predicting the activity of sites for DNA binding proteins: compilation and analysis of the binding sites for Escherichia coli integration host factor (IHF). Goodrich JA, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):4993–5000
Purification and characterization of a protein that binds to the recombination signal sequence of the immunoglobulin J kappa segment. Hamaguchi Y, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9015–26
Characterisation of the DNA binding domain of the yeast RAP1 protein [published erratum appears in Nucleic Acids Res 1990 Jul 25;18(14):4317] Henry YA, et al. **Nucleic Acids Res** 1990 May 11;18(9):2617–23
The embryonal carcinoma stem cell Ela–like activity involves a differentiation–regulated transcription factor. La Thangue NB, et al. **Nucleic Acids Res** 1990 May 25;18(10):2929–38
Transcriptional stimulation via SC site of Bombyx sericin–1 gene through an interaction with a DNA binding protein SGF–3. Matsuno K, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1853–8
Hypervariable individual–specific DNA band patterns revealed by a 22mer promoter–specific oligonucleotide probe containing an SP1 site. Menzel A, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4287
Wheat nuclear protein HBP–1 binds to the hexameric sequence in the promoter of various plant genes. Mikami K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9707–17
A yeast homolog of the human UEF stimulates transcription from the adenovirus 2 major late promoter in yeast and in mammalian cell–free systems. Moncollin V, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4817–23
Mechanism of inhibition of adenovirus DNA replication by the acyclic nucleoside triphosphate analogue (S)–HPMPApp: influence of the adenovirus DNA binding protein. Mul YM, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):8917–29
Active nucleoprotein filaments of single–stranded binding protein and recA protein on single–stranded DNA have a regular repeating structure. Muniyappa K, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3967–73
Requirement of protein co–factor for the DNA–binding function of the human ski proto–oncogene product. Nagase T, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):337–43
Identification of a second inducible DNA–protein interaction in the kappa immunoglobulin enhancer. Nelms K, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1037–43
Protein–DNA interactions upstream from the human A gamma globin gene. O'Neill D, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):1977–82
Effect of monovalent cation–induced telomeric DNA structure on the binding of Oxytricha telomeric protein. Raghuraman MK, et al. **Nucleic Acids Res** 1990 Aug 11; 18(15):4543–52
Increased Sp1 binding mediates erythroid–specific overexpression of a mutated (HPFH) gamma–globulin promoter. Ronchi A, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10231–41
DNA–protein interactions at the interferon–responsive promoter: evidences for an involvement of phosphorylation. Roy C, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2125–31
TcA, the putative transposase of the C. elegans Tc1 transposon, has an N–terminal DNA binding domain. Schukkink RF, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):895–900
Improved yields of long PCR products using gene 32 protein. Schwarz K, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1079
Repression of human cytomegalovirus gene expression associated with a novel immediate early regulatory region binding factor. Shelbourn SL, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9165–71
How different DNA sequences are recognized by a DNA–binding protein: effects of partial proteolysis. Supakar PC, et al. **Nucleic Acids Res** 1989 Nov 11; 17(21):8611–29
Functional analysis of GC element binding and transcription in the hamster dihydrofolate reductase gene promoter. Swick AG, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):9291–304
Target Detection Assay (TDA): a versatile procedure to determine DNA binding sites as demonstrated on SP1 protein. Thiesen HJ, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3203–9
A factor binding GATAAG confers tissue specificity on the promoter of the human zeta–globin gene. Watt P, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1339–50
Identification of an estrogen response element upstream of the human c–fos gene that binds the estrogen receptor and the AP–1 transcription factor. Weisz A, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5097–106
Hydroxyl radical footprints reveal novel structural features around the NF I binding site in adenovirus DNA. Zorbas H, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7735–48
Signal structure of the cis–acting element recognized by VirG protein, a positive regulator in Agrobacterium. Aoyama T, et al. **Nucleic Acids Symp Ser** 1989;(21):17–8
Sequence specificity of the human autonomously replicating sequence binding protein. Izuta S, et al. **Nucleic Acids Symp Ser** 1989;(21):21–2
Tax–independent binding of multiple cellular factors to Tax–response element DNA of HTLV–I. Beimling P, et al. **Oncogene** 1990 Mar;5(3):361–8
Heterodimer formation between CREB and JUN proteins. Benbrook DM, et al. **Oncogene** 1990 Mar;5(3):295–302
c–fos mediated stimulation of an AP–1 DNA binding activity in undifferentiated teratocarcinoma cell lines. Caceres J, et al. **Oncogene** 1990 Jan;5(1):59–67
Direct cloning of leucine zipper proteins: Jun binds cooperatively to the CRE with CRE–BP1. Macgregor PF, et al. **Oncogene** 1990 Apr;5(4):451–8
DNA binding properties of murine p53. Steinmeyer K, et al. **Oncogene** 1988 Nov;3(5):501–7
Residual DNA–bound proteins are a source of in vitro transcription inhibitor peptides. Venanzi FM. **Physiol Chem Phys Med NMR** 1989;21(1):57–64
DNA binding properties of the purified Antennapedia homeodomain. Affolter M, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4093–7
Differential activation of the E2F transcription factor by the adenovirus E1a and E1V products in F9 cells. Boeuf H, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1782–6
In vitro maturation and encapsidation of the DNA of transposable Mu–like phage D108. Burns CM, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6092–6
Cloning of the gene encoding the yeast protein BTF1Y, which can substitute for the human TATA box–binding factor. Cavallini B, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9803–7
DNA octamer element can confer E1A trans–activation, and adenovirus infection results in a stimulation of the DNA–binding activity of OTF–1/NFIII factor. Chellappan SP, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(15):5878–82
DNA binding site of the growth factor–inducible protein Zif268. Christy B, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8737–41
Cisplatin–resistant cells express increased levels of a factor that recognizes damaged DNA. Chu G, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3324–8
Mode of interaction of the zinc finger protein TFIIIA with a 5S RNA gene of Xenopus. Churchill ME, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5528–32
Ribonucleoprotein and protein factors bind to an H–DNA–forming c–myc DNA element: possible regulators of the c–myc gene. Davis TL, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9682–6
Interaction of an NF–kappa B–like factor with a site upstream of the c–myc promoter. Duyao MP, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4727–31
Conversion of a helix–turn–helix motif sequence–specific DNA binding protein into a site–specific DNA cleavage agent. Ebright RH, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2882–6
Interferon gamma regulates binding of two nuclear protein complexes in a macrophage cell line. Finn PW, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):914–8
Molecular characterization of the GCN4–DNA complex. Gartenberg MR, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6034–8
The second zinc–finger domain of poly(ADP–ribose) polymerase determines specificity for single–stranded breaks in DNA. Gradwohl G, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2990–4
Retinoblastoma growth suppressor and a 300–kDa protein appear to regulate cellular DNA synthesis. Howe JA, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5883–7
T–cell nuclei contain a protein that binds upstream of the murine granulocyte–macrophage colony–stimulating factor gene. James R, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(19):7392–6
Cooperative interactions between transcription factors Sp1 and OTF–1. Janson L, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4732–6
Mouse insulin–responsive glucose transporter gene: characterization of the gene and trans–activation by the CCAAT/enhancer binding protein. Kaestner KH, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):251–5
Multiple functions of human single–stranded–DNA binding protein in simian virus 40 DNA replication: single–strand stabilization and stimulation of DNA polymerases alpha and delta. Kenny MK, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9757–61
Are many Z–DNA binding proteins actually phospholipid–binding proteins? Krishna P, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1292–5
A nuclear protein associated with human cancer cells binds preferentially to a human repetitive DNA sequence. Law ML, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(21):8472–6
Mechanism of elongation of primed DNA by DNA polymerase delta, proliferating cell nuclear antigen, and activator 1. Lee SH, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5672–6
Multiple liver–specific factors bind to the hepatitis B virus core/pregenomic promoter: trans–activation and repression by CCAAT/enhancer binding protein. López–Cabrera M, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5069–73
Sequence–specific and polarized replication termination in vitro: complementation of extracts of tus– Escherichia coli by purified Ter protein and analysis of termination intermediates. MacAllister T, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2828–32
Binding of the herpes simplex virus major regulatory protein to viral DNA. Michael N, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9808–12
Nuclear proteins bind conserved elements in the abscisic acid–responsive promoter of a rice rab gene. Mundy J, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1406–10
An adenovirus E4 gene product trans–activates E2 transcription and stimulates stable E2F binding through a direct association with E2F. Neill SD, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):2008–12
Yeast Gal11 protein mediates the transcriptional activation signal of two different transacting factors, Gal4 and general regulatory factor I/repressor/activator site binding protein 1/translation upstream factor. Nishizawa M, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5373–7
Transcriptional activation of a conserved sequence element by ras requires a nuclear factor distinct from c–fos or c–jun. Owen RD, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3866–70
Modifications of protein–DNA interactions in the proximal promoter of a cell–growth–regulated histone gene during onset and progression of osteoblast differentiation. Owen TA, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):5129–33
GAL4 transcription factor is not a "zinc finger" but forms a Zn(II)2Cys6 binuclear cluster. Pan T, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2077–81
Spectroscopic studies of wild–type and mutant "zinc finger" peptides: determinants of domain folding and structure. Párraga G, et al. **Proc Natl Acad Sci U S A** 1990 Jan; 87(1):137–41
Transcriptional activation by Sp1 as directed through TATA or initiator: specific requirement for mammalian transcription factor IID. Smale ST, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4509–13
The same 50–kDa cellular protein binds to the negative regulatory elements of the interleukin 2 receptor alpha–chain gene and the human immunodeficiency virus type 1 long terminal repeat. Smith MR, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8526–30
Method to identify genomic targets of DNA binding proteins. Sompayrac L, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(9):3274–8
DNA–looping and enhancer activity: association between DNA–bound NtrC activator and RNA polymerase at the bacterial glnA promoter. Su W, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5504–8
Sequence analysis and DNA–protein interactions within the 5' flanking region of the Ca2+/calmodulin–dependent protein kinase II alpha–subunit gene. Sunyer T, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):278–82
cAMP–dependent phosphorylation and inactivation of yeast

transcription factor ADR1 does not affect DNA binding. Taylor WE, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(11):4098–102

Functions of replication factor C and proliferating-cell nuclear antigen: functional similarity of DNA polymerase accessory proteins from human cells and bacteriophage T4. Tsurimoto T, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):1023–7

TGA1a, a tobacco DNA-binding protein, increases the rate of initiation in a plant in vitro transcription system. Yamazaki K, et al. **Proc Natl Acad Sci U S A** 1990 Sep; 87(18):7035–9

Proteins binding to regulatory elements 5' to the human beta-globin gene. Berg PE, et al. **Prog Clin Biol Res** 1989; 316A:193–202

A factor from erythroleukemia-like K562 cell nuclei binds intron A of embryonic and fetal globin genes. Brown ML, et al. **Prog Clin Biol Res** 1989;316A:291–9

Binding of an erythroid-specific factor to enhancer regions of human globin genes. Gong QH, et al. **Prog Clin Biol Res** 1989;316A:179–91

An erythroid-specific DNA binding factor mediates increased gamma-globin expression in hereditary persistence of fetal hemoglobin (HPFH). Martin DI, et al. **Prog Clin Biol Res** 1989;316A:217–28

Regulation of prolactin gene expression by estradiol. Maurer RA, et al. **Prog Clin Biol Res** 1990;322:159–69 (24 ref.)

Nuclear proteins of a human erythroleukemic cell line that bind to the promoter region of normal and nondeletion HPFH gamma-globin genes. Metherall JE, et al. **Prog Clin Biol Res** 1989;316A:247–60

Effect of accessory proteins on the fidelity of DNA synthesis by eukaryotic replicative polymerases. Roberts JD, et al. **Prog Clin Biol Res** 1990;340A:91–100

A human gamma globin gene variant binds SP1. Sykes K, et al. **Prog Clin Biol Res** 1989;316A:237–46

A protein structural motif that bends DNA. White SW, et al. **Proteins** 1989;5(4):281–8

Cognate DNA binding specificity retained after leucine zipper exchange between GCN4 and C/EBP. Agre P, et al. **Science** 1989 Nov 17;246(4932):922–6

Solution structure of the glucocorticoid receptor DNA-binding domain. Härd T, et al. **Science** 1990 Jul 13; 249(4965):157–60

The MerR metalloregulatory protein binds mercuric ion as a tricoordinate, metal-bridged dimer. Helmann JD, et al. **Science** 1990 Feb 23;247(4945):946–8

Tumor cells exhibit deregulation of the cell cycle histone gene promoter factor HiNF-D. Holthuis J, et al. **Science** 1990 Mar 23;247(4949 Pt 1):1454–7

GT-1 binding site confers light responsive expression in transgenic tobacco. Lam E, et al. **Science** 1990 Apr 27; 248(4954):471–4

Design of DNA-binding peptides based on the leucine zipper motif. O'Neil KT, et al. **Science** 1990 Aug 17; 249(4970):774–8

Sequence-specific DNA binding by a short peptide dimer. Talanian RV, et al. **Science** 1990 Aug 17;249(4970):769–71

Scissors-grip model for DNA recognition by a family of leucine zipper proteins. Vinson CR, et al. **Science** 1989 Nov 17;246(4932):911–6 (22 ref.)

A bacterial enhancer functions to tether a transcriptional activator near a promoter. Wedel A, et al. **Science** 1990 Apr 27;248(4954):486–90

Progesterone decreases DNA binding factor activity and the expression in Xenopus oocytes of a cAMP responsive gene from rat liver. Williams JA, et al. **Second Messengers Phosphoproteins** 1988–89; 12(5–6):261–70

The role of intestinal microflora in the metabolic activation of 6-nitrochrysene to DNA-binding derivatives in mice. Delclos KB, et al. **Toxicology** 1990 Jan–Feb;60(1–2):137–50

Zinc-finger motifs and DNA binding [letter] Parraga G, et al. **Trends Biochem Sci** 1989 Oct;14(10):398

Transactivation of the p53 oncogene by E1a gene products. Braithwaite A, et al. **Virology** 1990 Aug;177(2):595–605

Interactions between cellular regulatory proteins and a unique sequence region in the human cytomegalovirus major immediate-early promoter. Ghazal P, et al. **Virology** 1990 Jan;174(1):18–25

Binding of cellular protein(s) to U3 region of human T-cell leukemia virus type-I long terminal repeat. Adachi Y, et al. **Virus Genes** 1989 Aug;2(4):307–11

[The role of protein binding with single-stranded DNA (SSB-protein) in DNA replication in Ehrlich ascites carcinoma cells] Koterov AN, et al. **Biokhimiia** 1990 May; 55(5):911–6 (Eng. Abstr.) (Rus)

[Level of Hu protein binding with DNA and the Hu/DNA ratio in Escherichia coli cells with various generation periods] Kulyba NP, et al. **Biokhimiia** 1989 Jul; 54(7):1075–81 (Eng. Abstr.) (Rus)

[Protein composition of DNA-matrix complexes with "strong" and "weak" types of bonds, isolated from Ehrlich ascites carcinoma cells] S'iakste NI, et al. **Biokhimiia** 1989 Jul;54(7):1217–23 (Eng. Abstr.) (Rus)

[Specific disulfide bonds of the DNA-residual protein complex] Struchkov VA, et al. **Dokl Akad Nauk SSSR** 1989;307(3):755–8 (Rus)

[Analysis of distribution of ligands adsorbed on DNA fragments] Iovanovich B, et al. **Mol Biol (Mosk)** 1990 Mar–Apr;24(2):478–86 (Eng. Abstr.) (Rus)

[Interaction with DNA and aggregation properties of C-terminal fragment of RecA protein] Volodin AA. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):179–88 (Eng. Abstr.) (Rus)

PHARMACOKINETICS

Specificity of the binding of fd gene 5 protein to polydeoxyribonucleotides. Sang BC, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):693–706

PHARMACOLOGY

Nuclear factor I represses the reverse-oriented transcription from the adenovirus type 5 DNA terminus. Matsumoto K, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):1212–9

Does NF-kappa B relieve the transcription block in c-myc? Renan MJ. **Cancer Lett** 1989 Sep 15;47(1–2):1–9 (76 ref.)

Transcription factors different from the estrogen receptor stimulate in vitro transcription from promoters containing estrogen response elements. Kaling M, et al. **Mol Cell Endocrinol** 1990 Mar 5;69(2–3):167–78

Alterations in the p'R promoter of coliphage lambda modify both its activity and interaction with the integration host factor (IHF). Kur J, et al. **Mol Gen Genet** 1990 May; 221(3):411–20

PHYSIOLOGY

Metalloregulatory proteins and molecular mechanisms of heavy metal signal transduction. Ralston DM, et al. **Adv Inorg Biochem** 1990;8:1–31 (140 ref.)

Two sequence-specific binding proteins from the promoter region of the c-Ha-ras-1 oncogene. Dimitrov T. **Biochem Genet** 1989 Aug;27(7–8):395–402

A tissue-specific nuclear factor binds to multiple sites in the human insulin-gene enhancer [published erratum appears in Biochem J 1990 Feb 1;265(3):932] Boam DS, et al. **Biochem J** 1989 Nov 15;264(1):233–9

Glucocorticoid receptor binding to calf thymus DNA. 2. Role of a DNA-binding activity factor in receptor heterogeneity and a multistep mechanism of receptor activation. Cavanaugh AH, et al. **Biochemistry** 1990 Jan 30;29(4):996–1002

Functional antagonism between oncoprotein c-Jun and the glucocorticoid receptor. Schüle R, et al. **Cell** 1990 Sep 21; 62(6):1217–26

DNA binding-induced conformational change of the yeast transcriptional activator PRTF. Tan S, et al. **Cell** 1990 Jul 27;62(2):367–77

Flow cytometric correlation of the c-myc oncoprotein and cell cycle kinetics of HL60 leukaemia during induced maturation with cytosine arabinoside and dimethylsulphoxide. Dent GA, et al. **Cell Tissue Kinet** 1989 Jan;22(1):1–11

Serendipity delta, a Drosophila zinc finger protein present in embryonic nuclei at the onset of zygotic gene transcription. Payre F, et al. **Dev Biol** 1989 Dec; 136(2):469–80

Isolation of a genomic sublibrary enriched for glucocorticoid-regulated genes. Harrison RW 3d, et al. **DNA Cell Biol** 1990 Mar;9(2):95–102

Both the basic region and the 'leucine zipper' domain of the cyclic AMP response element binding (CREB) protein are essential for transcriptional activation. Dwarki VJ, et al. **EMBO J** 1990 Jan;9(1):225–32

The presence of a DNA binding complex correlates with E beta class II MHC gene expression. Finn PW, et al. **EMBO J** 1990 May;9(5):1543–9

The cell type-specific octamer transcription factor OTF-2 has two domains required for the activation of transcription. Gerster T, et al. **EMBO J** 1990 May; 9(5):1635–43

Autoregulation of fos: the dyad symmetry element as the major target of repression. König H, et al. **EMBO J** 1989 Sep;8(9):2559–66

Octamer binding proteins confer transcriptional activity in early mouse embryogenesis. Schöler HR, et al. **EMBO J** 1989 Sep;8(9):2551–7

Repression of c-fos transcription is mediated through p67SRF bound to the SRE. Shaw PE, et al. **EMBO J** 1989 Sep;8(9):2567–74

Efficient expression of the Saccharomyces cerevisiae glycolytic gene ADH1 is dependent upon a cis-acting regulatory element (UASRPG) found initially in genes encoding ribosomal proteins. Tornow J, et al. **Gene** 1990 May 31;90(1):79–85

The human recombination strand exchange process. Moore SP, et al. **Genome** 1989;31(1):45–52

Characterization of a DNA-binding protein system which is inversely correlated with class II expression. Didier DK, et al. **Immunol Res** 1990;9(1):69–76 (39 ref.)

fos and jun interaction: the role of the leucine zipper. Ransone LJ, et al. **Int J Cancer Suppl** 1989;4:10–21

Genetic and biochemical analysis of the MetR activator-binding site in the metE metR control region of Salmonella typhimurium. Urbanowski ML, et al. **J Bacteriol** 1989 Oct;171(10):5620–9

Plasmid pLS1-encoded RepA protein regulates transcription from repAB promoter by binding to a DNA sequence containing a 13-base pair symmetric element. del Solar GH, et al. **J Biol Chem** 1990 Jul 25;265(21):12569–75

Regulation of the IL-2 receptor alpha-gene. Interaction of a kappa B binding protein with cell-specific transcription factors. Freimuth WW, et al. **J Immunol** 1989 Nov 1; 143(9):3064–8

Multiple nuclear factors interact with sequences within the J beta 2-C beta 2 intron of the murine T cell receptor beta-chain gene. Mauxion F, et al. **J Immunol** 1990 Sep 1;145(5):1577–82

Adenovirus E1A products activate the Ig k-chain enhancer in fibroblasts. A possible involvement of the NF-kB binding site. Shurman L, et al. **J Immunol** 1989 Dec 1; 143(11):3806–12

Multiple transcriptional regulatory domains in the human immunodeficiency virus type 1 long terminal repeat are involved in basal and E1A/E1B-induced promoter activity. Kliewer S, et al. **J Virol** 1989 Nov;63(11):4616–25

A novel T-cell protein which recognizes a palindromic sequence in the negative regulatory element of the human immunodeficiency virus long terminal repeat. Orchard K, et al. **J Virol** 1990 Jul;64(7):3234–9

Characteristics of the cAMP response unit. Montminy MR, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):6–12 (20 ref.)

Increased expression and DNA-binding activity of transcription factor Sp1 in doxorubicin-resistant HL-60 leukemia cells. Borellini F, et al. **Mol Cell Biol** 1990 Oct; 10(10):5541–7

A yeast ARS-binding protein activates transcription synergistically in combination with other weak activating factors. Buchman AR, et al. **Mol Cell Biol** 1990 Mar; 10(3):887–97

Octamer-binding proteins in diverse hemopoietic cells. Cockerill PN, et al. **Mol Cell Biol** 1990 Mar;10(3):1293–6

A negative element involved in vimentin gene expression. Farrell FX, et al. **Mol Cell Biol** 1990 May;10(5):2349–58

Binding of a liver-specific factor to the human albumin gene promoter and enhancer. Frain M, et al. **Mol Cell Biol** 1990 Mar;10(3):991–9

Developmental regulation of specific protein interactions with an enhancerlike binding site far upstream from the avian very-low-density apolipoprotein II gene. Hoodless PA, et al. **Mol Cell Biol** 1990 Jan;10(1):154–64

trans activation of gene expression by v-myb. Ibanez CE, et al. **Mol Cell Biol** 1990 May;10(5):2285–93

The ubiquitous octamer-binding protein(s) is sufficient for transcription of immunoglobulin genes. Johnson DG, et al. **Mol Cell Biol** 1990 Mar;10(3):982–90

Activation of interleukin-6 gene expression through the NF-kappa B transcription factor. Libermann TA, et al. **Mol Cell Biol** 1990 May;10(5):2327–34

Octamer and SPH motifs in the U1 enhancer cooperate to activate U1 RNA gene expression. Roebuck KA, et al. **Mol Cell Biol** 1990 Jan;10(1):341–52

E4F and ATF, two transcription factors that recognize the same site, can be distinguished both physically and functionally: a role for E4F in E1A trans activation. Rooney RJ, et al. **Mol Cell Biol** 1990 Oct;10(10):5138–49

Sp1 activates transcription without enhancing DNA-binding activity of the TATA box factor. Schmidt MC, et al. **Mol Cell Biol** 1989 Aug;9(8):3299–307

NF-kappa B as inducible transcriptional activator of the granulocyte-macrophage colony-stimulating factor gene. Schreck R, et al. **Mol Cell Biol** 1990 Mar;10(3):1281–6

Functional analysis of the murine T-cell receptor beta enhancer and characteristics of its DNA-binding proteins. Takeda J, et al. **Mol Cell Biol** 1990 Oct;10(10):5027–35

The C6 zinc finger and adjacent amino acids determine DNA-binding specificity and affinity in the yeast activator proteins LAC9 and PPR1. Witte MM, et al. **Mol Cell Biol** 1990 Oct;10(10):5128–37

Integration host factor is necessary for lysogenization of Escherichia coli by bacteriophage P2. Saha S, et al. **Mol Microbiol** 1990 Jan;4(1):3–11

Mismatch binding proteins and tolerance to alkylating agents in human cells. Karran P, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):269–75

Mammalian sex determination: thumbs down for zinc finger? [news] [see comments] Burgoyne PS. **Nature** 1989 Dec 21–28;342(6252):860–2 Comment in: Nature 1990 Mar 29;344(6265):389–90.

Injection of the cAMP-responsive element into the nucleus of Aplysia sensory neurons blocks long-term facilitation. Dash PK, et al. **Nature** 1990 Jun 21;345(6277):718–21

Evidence for interaction of different eukaryotic transcriptional activators with distinct cellular targets. Martin KJ, et al. **Nature** 1990 Jul 12;346(6280):147–52

The candidate Wilms' tumour gene is involved in genitourinary development. Pritchard-Jones K, et al. **Nature** 1990 Jul 12;346(6280):194–7

Transactivation by the hepatitis B virus X protein depends on AP-2 and other transcription factors. Seto E, et al. **Nature** 1990 Mar 1;344(6261):72–4

The Oct-1 homoeodomain directs formation of a multiprotein-DNA complex with the HSV transactivator VP16. Stern S, et al. **Nature** 1989 Oct 19;341(6243):624–30

The c-ets proto-oncogenes encode transcription factors that cooperate with c-Fos and c-Jun for transcriptional activation. Wasylyk B, et al. **Nature** 1990 Jul 12; 346(6280):191–3

Membrane depolarization and calcium induce c-fos transcription via phosphorylation of transcription factor CREB. Sheng M, et al. **Neuron** 1990 Apr;4(4):571–82

Differential expression of immediate early genes in the hippocampus and spinal cord. Wisden W, et al. **Neuron** 1990 Apr;4(4):603–14

Analysis of the rat JE gene promoter identifies an AP-1 binding site essential for basal expression but not for TPA induction. Timmers HT, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):23-34

Both Jun and Fos contribute to transcription activation by the heterodimer. Hirai S, et al. **Oncogene** 1990 Jan; 5(1):39-46

Integrity of FOS B leucine zipper is essential for its interaction with JUN proteins. Ryseck RP, et al. **Oncogene** 1990 Jul;5(7):1091-3

Potentiation of a polyadenylylation site by a downstream protein-DNA interaction. Dorsett D. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4373-7

Negative and positive regulation by transcription factor cAMP response element-binding protein is modulated by phosphorylation. Lamph WW, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4320-4

Activator proteins which regulate immunoglobulin heavy chain gene transcription in B lymphocytes. Roman C, et al. **Prog Clin Biol Res** 1990;352:241-8

Redox regulation of fos and jun DNA-binding activity in vitro. Abate C, et al. **Science** 1990 Sep 7;249(4973):1157-61

Template supercoiling by a chimera of yeast GAL4 protein and phage T7 RNA polymerase. Ostrander EA, et al. **Science** 1990 Sep 14;249(4974):1261-5

[Participation of the SSB protein in the repair of the DNA in Ehrlich ascites carcinoma cells following gamma radiation] Novoradovskaia NA, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):729-31 (Eng. Abstr.) **(Rus)**

[Participation of the SSB protein in the repair of the DNA of Ehrlich ascites carcinoma cells following UV irradiation] Novoradovskaia NA, et al. **Radiobiologiia** 1989 Nov-Dec; 29(6):723-8 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

The two DNA-binding domains of yeast transcription factor tau as observed by scanning transmission electron microscopy. Schultz P, et al. **EMBO J** 1989 Dec 1; 8(12):3815-24

Metal ion co-ordination in the DNA binding domain of the yeast transcriptional activator GAL4. Povey JF, et al. **FEBS Lett** 1990 Jun 18;266(1-2):142-6

A preliminary structure for the DNA binding protein from bacteriophage IKe. Brayer GD. **J Biomol Struct Dyn** 1987 Apr;4(5):859-68

A novel nucleoprotein complex at a replication origin. Serrano M, et al. **Science** 1990 May 25;248(4958):1012-6

DNA, CIRCULAR

Changes in the isoenzyme and kinetoplast DNA patterns of Trypanosoma cruzi strains induced by maintenance in mice. Carneiro M, et al. **Acta Trop (Basel)** 1990 Jan;47(1):35-45

Structure and dynamics of M13mp19 circular single-strand DNA: effects of ionic strength. Wilson DH, et al. **Biopolymers** 1990 Feb 5;29(2):357-76

The cDNA structure and expression analysis of the genes for the cysteine proteinase inhibitor cystatin C and for beta 2-microglobulin in rat brain. Cole T, et al. **Eur J Biochem** 1989 Dec 8;186(1-2):35-42

Developmental expression of Cu,Zn superoxide dismutase in Xenopus. Constant level of the enzyme in oogenesis and embryogenesis. Montesano L, et al. **Eur J Biochem** 1989 Dec 8;186(1-2):421-6

Evaluation of a radioactive rRNA:cDNA-hybridisation assay for the direct detection of Chlamydia trachomatis in urogenital specimens. Näher H, et al. **Genitourin Med** 1989 Oct;65(5):319-22

Molecular cloning and physical mapping of the DNA of Miscanthus streak geminivirus. Ikegami M, et al. **Intervirology** 1989;30(6):340-5

A theoretical study of formation of DNA noncanonical structures under negative superhelical stress. Anshelevich VV, et al. **J Biomol Struct Dyn** 1988 Oct;6(2):247-59

Torsional and bending rigidity of the double helix from data on small DNA rings. Frank-Kamenetskii MD, et al. **J Biomol Struct Dyn** 1985 Feb;2(5):1005-12

On the toroidal condensed state of closed circular DNA. Grosberg AYu, et al. **J Biomol Struct Dyn** 1985 Dec; 3(3):515-20

The twist, writhe, and linking number distributions in closed circular DNA. Tobias I. **J Biomol Struct Dyn** 1985 Oct; 3(2):315-25

Application of the method of phage T4 DNA ligase-catalyzed ring-closure to the study of DNA structure. I. Computational analysis. Hagerman PJ, et al. **J Mol Biol** 1990 Mar 20;212(2):351-62

Application of the method of phage T4 DNA ligase-catalyzed ring-closure to the study of DNA structure. II. NaCl-dependence of DNA flexibility and helical repeat. Taylor WH, et al. **J Mol Biol** 1990 Mar 20;212(2):363-76

Characterization of kinetoplast minicircle DNA in the lower trypanosomatid Crithidia oncopelti. Pestov DG, et al. **Mol Biochem Parasitol** 1990 Jun;41(1):135-45

Plasmid multimerization is dependent on RAD52 activity in Saccharomyces cerevisiae. Harashima S, et al. **Mol Gen Genet** 1989 Nov;219(3):495-8

The B-A transition in superhelical DNA. Krylov DYu, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):759-61

Stopping the DNA polymerase activity at a specific site with a dideoxyoligonucleotide: selective labelling of single stranded circular DNA. Mattanovich D, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8384

Circular chromosomal DNA in the sulfur-dependent archaebacterium Sulfolobus acidocaldarius. Yamagishi A, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1133-6

ANALYSIS

Detection of circular forms of eliminated DNA during macronuclear development in E. crassus. Tausta SL, et al. **Cell** 1989 Dec 22;59(6):1019-26

Identification of leishmania by kinetoplast DNA minicircle and cloning of minicircle. Lu HG, et al. **Chin Med J [Engl]** 1990 May;103(5):418-23

Extrachromosomal circular DNAs in Drosophila melanogaster: comparison between embryos and Kc0% cells. Degroote F, et al. **Chromosoma** 1989 Sep;98(3):201-6

DNA linking potential generated by gyrase. Kozyavkin SA, et al. **Eur J Biochem** 1990 Jul 20;191(1):105-13

Specific probes for Trypanosoma (Trypanozoon) evansi based on kinetoplast DNA minicircles. Masiga DK, et al. **Mol Biochem Parasitol** 1990 May;40(2):279-83

Characterization and grouping of Trypanosoma cruzi stocks by DNA base-specific fluorochromes and discriminant analysis. Mühlpfordt H, et al. **Parasitol Res** 1990; 76(4):319-25

Population heterogeneity among clones of New World Leishmania species. Pacheco RS, et al. **Parasitology** 1990 Jun;100 Pt 3:393-8

Isolation and expression of multiple forms of beta amyloid protein precursor cDNAs. Donnelly RJ, et al. **Prog Clin Biol Res** 1989;317:925-37

[Structural organization of kinetoplast DNA and its compactization in a model system in vitro] Martynkina LP, et al. **Mol Biol (Mosk)** 1989 Nov-Dec;23(6):1645-57 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

DNA bending induced by the catabolite activator protein allows ring formation of a 144 bp DNA. Dripps D, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):1-13

Replication of tomato golden mosaic virus DNA B in transgenic plants expressing open reading frames (ORFs) of DNA A: requirement of ORF AL2 for production of single-stranded DNA. Hayes RJ, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10213-22

Minichromosome assembly accompanying repair-type DNA synthesis in Xenopus oocytes. Ryoji M, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10243-58

CHEMICAL SYNTHESIS

A strategy for the construction of double-stranded DNA microcircles with circumferences less than 50 bp. Wolters M, et al. **Anticancer Drug Des** 1990 Feb;5(1):111-20

DRUG EFFECTS

Selective cleavage of kinetoplast DNA minicircles promoted by antitrypanosomal drugs. Shapiro TA, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):950-4

GENETICS

A rapid method for site-specific mutagenesis and directional subcloning by using the polymerase chain reaction to generate recombinant circles. Jones DH, et al. **Biotechniques** 1990 Feb;8(2):178-83

Intramolecular transposition by Tn10. Benjamin HW, et al. **Cell** 1989 Oct 20;59(2):373-83

A model for RNA editing in kinetoplastid mitochondria: "guide" RNA molecules transcribed from maxicircle DNA provide the edited information. Blum B, et al. **Cell** 1990 Jan 26;60(2):189-98

Circular DNA is excised by immunoglobulin class switch recombination. Iwasato T, et al. **Cell** 1990 Jul 13; 62(1):143-9

Switch circular DNA formed in cytokine-treated mouse splenocytes: evidence for intramolecular DNA deletion in immunoglobulin class switching. Matsuoka M, et al. **Cell** 1990 Jul 13;62(1):135-42

Expression of intermediate filament proteins during development of Xenopus laevis. I. cDNA clones encoding different forms of vimentin. Herrmann H, et al. **Development** 1989 Feb;105(2):279-98

Infectious circular DNA of human adenovirus type 5: regeneration of viral DNA termini from molecules lacking terminal sequences. Graham FL, et al. **EMBO J** 1989 Jul; 8(7):2077-85

Localization of DNA repair synthesis by human cell extracts to a short region at the site of a lesion [published erratum appears in J Biol Chem 1990 Mar 5;265(7):4172] Hansson J, et al. **J Biol Chem** 1989 Dec 25;264(36):21788-92

Cloning and sequencing of cDNA clones encoding chicken lamins A and B1 and comparison of the primary structures of vertebrate A- and B-type lamins. Peter M, et al. **J Mol Biol** 1989 Aug 5;208(3):393-404

Fourteen internal transcribed spacers in the circular ribosomal DNA of Euglena gracilis. Schnare MN, et al. **J Mol Biol** 1990 Sep 5;215(1):85-91

A second higher vertebrate B-type lamin. cDNA sequence determination and in vitro processing of chicken lamin B2. Vorburger K, et al. **J Mol Biol** 1989 Aug 5;208(3):405-15

Circular DNA of Entamoeba histolytica encodes ribosomal RNA. Bhattacharya S, et al. **J Protozool** 1989 Sep-Oct; 36(5):455-8

Hepadnavirus envelope proteins regulate covalently closed circular DNA amplification. Summers J, et al. **J Virol** 1990 Jun;64(6):2819-24

Specific discontinuities in Leishmania tarentolae minicircles map within universally conserved sequence blocks. Sheline C, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):151-7

A kinetoplast DNA probe diagnostic for Leishmania major: sequence homologies between regions of Leishmania minicircles. Smith DF, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):213-23

Tissue-specific and age-related variations in repetitive sequences of mouse extrachromosomal circular DNAs. Gaubatz JW, et al. **Mutat Res** 1990 Jan;237(1):29-36

DNA mutagenesis and recombination. Jones DH, et al. **Nature** 1990 Apr 19;344(6268):793-4

Circular DNA is a product of the immunoglobulin class switch rearrangement. von Schwedler U, et al. **Nature** 1990 May 31;345(6274):452-6

The nucleotide sequence of the 12S ribosomal RNA gene from kinetoplast DNA of the protozoan Crithidia oncopelti. Horváth A, et al. **Nucleic Acids Res** 1990 May 11;18(9):2811

Recombination mediates production of an extrachromosomal circular DNA containing a transposon-like human element, THE-1. Misra R, et al. **Nucleic Acids Res** 1989 Oct 25; 17(20):8327-41

Transformation of Tetrahymena thermophila with a mutated circular ribosomal DNA plasmid vector. Yu GL, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8487-91

Nucleotide sequence of a circular single-stranded DNA associated with coconut foliar decay virus. Rohde W, et al. **Virology** 1990 Jun;176(2):648-51

[Formation of covalently-bound circular structures of transposon TnV (Tn5-Rep pSC101) during transposition] Borovok IA. **Dokl Akad Nauk SSSR** 1989;309(3):724-8 **(Rus)**

[Circular ID sequences in the synaptosomal fraction from the cerebral cortex of rats] Bukhman VL, et al. **Dokl Akad Nauk SSSR** 1990;310(4):1004-8 **(Rus)**

ISOLATION & PURIFICATION

Purification of eucaryotic extrachromosomal circular DNAs using exonuclease III. Gaubatz JW, et al. **Anal Biochem** 1990 Feb 1;184(2):305-10

A simple method for the preparation of the covalently closed circular form of plasmid DNA. Le Brun JJ, et al. **Biotechniques** 1988 Oct;6(9):834, 837-8

Basal body/centriolar DNA: molecular genetic studies in Chlamydomonas. Hall JL, et al. **Cell** 1989 Oct 6; 59(1):121-32

Purification of bacteriophage DNA by gel filtration chromatography. González A, et al. **Genet Anal** 1990 Feb; 7(1):2-4

Electrophoresis of flexible macromolecules: evidence for a new mode of transport in gels. Smisek DL, et al. **Science** 1990 Jun 8;248(4960):1221-3

METABOLISM

Evidence for nonintercalative complexes formed from the reversible binding of benzo[a]pyrene metabolites to closed-circular, single-stranded M13mp19 DNA. Price HL, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1095-102

Enzymatic formation and resolution of Holliday junctions in vitro. Müller B, et al. **Cell** 1990 Jan 26;60(2):329-36

A simple procedure for detecting proteins that bind preferentially to kDNA networks. Tittawella I. **FEMS Microbiol Lett** 1989 Aug;51(3):347-52

DNase I footprinting analysis of RecA protein polymerized on DNA during strand exchange reaction between a gapped circle and a linear duplex. Akaboshi E, et al. **J Biochem (Tokyo)** 1990 May;107(5):781-6

Escherichia coli helicase II (uvrD) protein can completely unwind fully duplex linear and nicked circular DNA. Runyon GT, et al. **J Biol Chem** 1989 Oct 15; 264(29):17502-12

The histone H3/H4.N1 complex supplemented with histone H2A-H2B dimers and DNA topoisomerase I forms nucleosomes on circular DNA under physiological conditions. Zucker K, et al. **J Biol Chem** 1990 Aug 25; 265(24):14487-96

Synthesis and processing of kinetoplast DNA minicircles in Trypanosoma equiperdum. Ryan KA, et al. **Mol Cell Biol** 1989 Aug;9(8):3212-7

PHYSIOLOGY

Kinetoplast DNA minicircles encode guide RNAs for editing of cytochrome oxidase subunit III mRNA. Sturm NR, et al. **Cell** 1990 Jun 1;61(5):879-84

RADIATION EFFECTS

The effect of short-wavelength ultraviolet light on antigens, lectin receptors and the ultrastructure of Crithidia fasciculata. Santos MA, et al. **Braz J Med Biol Res** 1989; 22(3):345-50

ULTRASTRUCTURE

Effect of excluded volume on topological properties of

circular DNA. Klenin KV, et al. **J Biomol Struct Dyn** 1988 Jun;5(6):1173–85

A study of phi X-174 DNA torus and lambda DNA torus tertiary structure and the implications for DNA self-assembly. Marx KA, et al. **J Biomol Struct Dyn** 1986 Aug;4(1):23–39

DNA CYTOSINE-5-METHYLASE see **DNA (CYTOSINE-5-)-METHYLTRANSFERASE**

DNA-CYTOSINE METHYLASES see **DNA MODIFICATION METHYLASES (CYTOSINE-SPECIFIC)**

DNA (CYTOSINE-5-)-METHYLTRANSFERASE

BIOSYNTHESIS

Changes in DNA methyltransferase induced by treatment with N-2-acetylaminofluorene. Bravo LM, et al. **Mutat Res** 1989 Nov;215(1):55–60

GENETICS

The amino acid sequence of the CCGG recognizing DNA methyltransferase M.BsuFI: implications for the analysis of sequence recognition by cytosine DNA methyltransferases. Walter J, et al. **EMBO J** 1990 Apr; 9(4):1007–13

A gene required for very short patch repair in Escherichia coli is adjacent to the DNA cytosine methylase gene. Sohail A, et al. **J Bacteriol** 1990 Aug;172(8):4214–21

Sequence motifs characteristic of DNA[cytosine-N4]methyltransferases: similarity to adenine and cytosine-C5 DNA-methylases. Klimasauskas S, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9823–32

METABOLISM

The UV excision-repair system of Saccharomyces cerevisiae is involved in the removal of methylcytosines formed in vivo by a cloned prokaryotic DNA methyltransferase. Fehér Z, et al. **Curr Genet** 1989 Dec;16(5–6):461–4

DNA DAMAGE

Profound toxicity of deoxyadenosine and 2-chlorodeoxyadenosine toward human monocytes in vitro and in vivo. Carrera CJ, et al. **Adv Exp Med Biol** 1989; 253B:219–25

Synergistic interaction between etoposide and 1-beta-D-arabinofuranosylcytosine. Ohkubo T, et al. **Adv Exp Med Biol** 1989;253B:355–62

Sequential combination of methotrexate and 1-beta-D-arabinofuranosylcytosine shows synergistic effect on the generation of DNA strand breaks in a human promyelocytic leukemia cell line. Tanizawa A, et al. **Adv Exp Med Biol** 1989;253B:349–54

The mechanism of 2-chlorodeoxyadenosine-induced cell death. Wataya Y, et al. **Adv Exp Med Biol** 1989; 253B:227–34

Human chromosome 5 complements the DNA double-strand break-repair deficiency and gamma-ray sensitivity of the XR-1 hamster variant. Giaccia AJ, et al. **Am J Hum Genet** 1990 Sep;47(3):459–69

Cigarette smoke potentiates the DNA-damaging effect of manmade mineral fibers. Leanderson P, et al. **Am J Ind Med** 1989;16(6):697–706

Augmentation of bleomycin-induced DNA damage in intact cells. Moseley PL. **Am J Physiol** 1989 Nov;257(5 Pt 1):C882–7

Quantitation of ultraviolet radiation-induced cyclobutyl pyrimidine dimers in DNA by video and photographic densitometry. Freeman SE, et al. **Anal Biochem** 1990 May 1;186(2):222–8

Italo-Hungarian Meeting on Genotoxicity of Environmental Chemicals: Scientific and Regulatory Aspects. Rome, April 28–29, 1988. **Ann Ist Super Sanita** 1989;25(4):541–612

Genotoxicity of selected herbicides. Pintér A, et al. **Ann Ist Super Sanita** 1989;25(4):577–82

Studies on DNA damage and induction of SOS repair by novel multifunctional bioreducible compounds. I. A metronidazole adduct of dirhodium (II) tetraacetate. Dale LD, et al. **Anticancer Drug Des** 1989 Dec;4(4):295–302

Interactions between potential anti-tumour 2,5-bis(1-aziridinyl)-1,4-benzoquinone derivatives and glutathione: reductive activation, conjugation and DNA damage. Lusthof KJ, et al. **Anticancer Drug Des** 1990 Aug; 5(3):283–90

Can cytotoxic activity of anthracyclines be related to DNA damage? Nishiyama M, et al. **Anticancer Drug Des** 1990 Feb;5(1):135–9

DNA interstrand crosslinking and strand break repair in human glioma cell lines of varying [1,3-bis(2-chloroethyl)-1-nitrosourea] resistance. Ali-Osman F, et al. **Anticancer Res** 1990 May-Jun; 10(3):677–82

The effect of estramustine on microtubuli is different from the direct action via oxygen radicals on DNA and cell membrane. Henriksson R, et al. **Anticancer Res** 1990 Mar-Apr;10(2A):303–9

Melphalan-induced DNA cross-linking and inhibition of DNA and RNA synthesis in human melanoma and lymphoblast cells. Ringborg U, et al. **Anticancer Res** 1990 Mar-Apr;10(2A):297–301

DNA damage/repair studies using a combination of monoclonal thymidine antibody and unscheduled DNA synthesis simultaneously. Soni N, et al. **Anticancer Res** 1989 Jul-Aug;9(4):909–14

Cytotoxicity and DNA damaging effects of a new nitrosourea, fotemustine, diethyl-1-(3-(2-chloroethyl)-3-nitrosoureido) ethylphosphonate-S10036. Tapiero H, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1617–22

The pathobiology of ozone-induced damage. Steinberg JJ, et al. **Arch Environ Health** 1990 Mar-Apr;45(2):80–7 (81 ref.)

Effects of ascorbic acid on the mouse embryo and on cyclophosphamide-induced cephalic DNA strand breaks in vivo. Pillans PI, et al. **Arch Toxicol** 1990;64(5):423–5

Formation and repair of DNA lesions in kidneys of male mice after acute exposure to methyl chloride. Ristau C, et al. **Arch Toxicol** 1990;64(3):254–6

Enhancement of bleomycin-induced DNA damage by exposing isolated DNA to high concentrations of the calcium antagonist verapamil. Weber J, et al. **Arzneimittelforschung** 1989 Dec;39(12):1550–4

Position of a single acetylaminofluorene adduct within a mutational hot spot is critical for the related mutagenic event. Burnouf D, et al. **Basic Life Sci** 1990;52:277–87

Microcell-mediated chromosome transfer: a strategy for studying the genetics and molecular pathology of human hereditary diseases with abnormal responses to DNA damage. Friedberg EC, et al. **Basic Life Sci** 1990;52:257–67 (36 ref.)

Free radical reactions with DNA and its nucleotides. Mason RP, et al. **Basic Life Sci** 1990;52:119–25 (24 ref.)

Phenotypic reversion of cisplatin resistance in human cells accompanies reduced host cell reactivation of damaged plasmid. Chao CC, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):851–9

Inhibition of both etoposide-induced DNA fragmentation and activation of poly(ADP-ribose) synthesis by zinc ion. Shimizu T, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1172–7

Exposure to camptothecin breaks leading and lagging strand simian virus 40 DNA replication forks. Shin CG, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):135–40

Light-induced DNA cleavage by esperamicin and neocarzinostatin. Uesawa Y, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):903–11

Niacin prevents DNA strand breakage by adenosine deaminase inhibitors. Weitberg AB, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):514–9

Dimethylated arsenics induce DNA strand breaks in lung via the production of active oxygen in mice. Yamanaka K, et al. **Biochem Biophys Res Commun** 1989 Nov 30; 165(1):43–50

Induction of DNA damage by dimethylarsine, a metabolite of inorganic arsenics, is for the major part likely due to its peroxyl radical. Yamanaka K, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):58–64

Stimulation of poly(ADP-ribose) synthesis by free radicals in C3H10T1/2 cells: relationship with NAD metabolism and DNA breakage. Lautier D, et al. **Biochem Cell Biol** 1990 Mar;68(3):602–8

DNA strand breaks photosensitized by benoxaprofen and other non steroidal antiinflammatory agents. Artuso T, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):407–13

Comparison of intracellular drug retention, DNA damage and cytotoxicity of derivatives of doxorubicin and daunorubicin in a human colon adenocarcinoma cell line (LoVo). Belvedere G, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3713–21

A comparison of the techniques of alkaline filter elution and alkaline sucrose sedimentation used to assess DNA damage induced by 2-nitroimidazoles. Crump PW, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):621–7

Biochemical lesions in DNA associated with the antiproliferative effects of mitoxantrone in the hepatoma cell. Ellis AL, et al. **Biochem Pharmacol** 1990 May 15; 39(10):1549–56

Microsomal activation and increased production of 4'-(9-acridinylamino)-3-methanesulfon-m-anisidide (m-AMSA)-dependent, topoisomerase-associated DNA lesions in nuclei from human HL-60 leukemia cells. Gorsky LD, et al. **Biochem Pharmacol** 1990 May 1;39(9):1481–4

Site-specific DNA damage induced by sulfite in the presence of cobalt(II) ion. Role of sulfate radical. Kawanishi S, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3491–6

Bleomycin-induced DNA lesions are dependent on nucleosome repeat length. Lönn U, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):101–7

Effects of minor groove binding drugs on camptothecin-induced DNA lesions in L1210 nuclei. McHugh MM, et al. **Biochem Pharmacol** 1990 Feb 15; 39(4):707–14

Characterization of the DNA damage in 6-thioguanine-treated cells. Pan BF, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1063–9

Electrochemical studies and DNA damaging effects of the benzotriazine-N-oxides. Tocher JH, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):781–6

Oligonucleotide-sequencing studies of guanine photodamage sensitized by acetone and riboflavin. Davies RJ, et al. **Biochem Soc Trans** 1990 Apr;18(2):327

Characterization of a DNA damage-recognition protein from mammalian cells that binds specifically to intrastrand d(GpG) and d(ApG) DNA adducts of the anticancer drug cisplatin. Donahue BA, et al. **Biochemistry** 1990 Jun 19; 29(24):5872–80

Mechanisms of mutagenesis by the vinyl chloride metabolite chloroacetaldehyde. Effect of gene-targeted in vitro adduction of M13 DNA on DNA template activity in vivo and in vitro. Jacobsen JS, et al. **Biochemistry** 1990 Jan 16; 29(2):496–504

A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AP sites and thymine glycols from DNA. Lin JJ, et al. **Biochemistry** 1989 Oct 3; 28(20):7979–84

Conformation of DNA modified at a d(GG) or a d(AG) site by the antitumor drug cis-diamminedichloroplatinum(II). Schwartz A, et al. **Biochemistry** 1989 Oct 3;28(20):7975–9

Characterization of the structure and melting of DNAs containing backbone nicks and gaps. Snowden-Ifft EA, et al. **Biochemistry** 1990 Jun 26;29(25):6017–25

Repair of pyrimidine dimer ultraviolet light photoproducts by human cell extracts. Wood RD. **Biochemistry** 1989 Oct 17;28(21):8287–92

Diamide induced shift in protein and glutathione thiol: disulfide status delays DNA rejoining after X-irradiation of human cancer cells. Baker MA, et al. **Biochim Biophys Acta** 1990 Jan 19;1037(1):39–47

Hydrogen peroxide insult in cultured mammalian cells: relationships between DNA single-strand breakage, poly(ADP-ribose) metabolism and cell killing. Cantoni O, et al. **Biochim Biophys Acta** 1989 Oct 30;1014(1):1–7

The lengths of DNA fragments light-induced in the presence of a photosensitizer localized at the nuclear membrane of human cells. Kvam E, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):33–7

Plasma desorption mass spectrometric study of UV-induced lesions within DNA model compounds. Viari A, et al. **Biomed Environ Mass Spectrom** 1989 Aug;18(8):547–52

Biophysical studies of the modification of DNA by antitumour platinum coordination complexes. Brabec V, et al. **Biophys Chem** 1990 Apr;35(2–3):129–41 (102 ref.)

Detection of DNA damage "in vitro" by a topoisomerase II inhibitor with a low-shear viscometer. Marchesini F, et al. **Boll Soc Ital Biol Sper** 1988 Oct;64(10):953–60

DNA damage induced by some bile acids, evaluated with alkaline elution technique. Peluso M, et al. **Boll Soc Ital Biol Sper** 1989 Jul;65(7):671–7

DNA damage and sequence specificity of DNA binding of the new anti-cancer agent 1,4-bis(2'-chloroethyl)-1,4-diazabicyclo-[2.2.1] heptane dimaleate (Dabis maleate) [published erratum appears in Br J Cancer 1990 Jul;62(1):172] Broggini M, et al. **Br J Cancer** 1990 Feb;61(2):285–9

Oncogenic transformation of murine C3H 10T1/2 cells resulting from DNA double-strand breaks induced by a restriction endonuclease. Bryant PE, et al. **Br J Cancer** 1989 Dec;60(6):852–4

Role of the semi-quinone free radical of the anti-tumour agent etoposide (VP-16-213) in the inactivation of single- and double-stranded phi X174 DNA. Mans DR, et al. **Br J Cancer** 1990 Jul;62(1):54–60

PLD-repair in human melanoma xenografts following single dose and fractionated irradiation. Rofstad EK. **Br J Cancer** 1990 Jun;61(6):856–60

Interaction of 7,10-dimethylbenz[c]acridine with deoxyribonucleic acid. Kamata K, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):534–40

Lack of DNA alterations induced by orotic acid in rat liver as evaluated with two DNA unwinding methods. Balbi C, et al. **Cancer Biochem Biophys** 1990 Apr;11(2):135–44

Metabolism of and DNA adduct formation by benzo[alpha]pyrene in human skin epithelial cells in vitro pretreated with cytochrome P450 modulators. Lehman TA, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):345–52

Cytotoxic and DNA-damaging effects of 1,2-bis(sulfonyl)hydrazines on human cells of the Mer+ and Mer- phenotype. Pratviel G, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):365–75

Relationship between cytotoxicity, drug accumulation, DNA damage and repair of human ovarian cancer cells treated with doxorubicin: modulation by the tiapamil analog RO11-2933. Alaoui Jamali MA, et al. **Cancer Chemother Pharmacol** 1989;25(2):77–83

DNA damage and cytotoxicity of mitoxantrone and doxorubicin in doxorubicin-sensitive and -resistant human colon carcinoma cells. Capolongo L, et al. **Cancer Chemother Pharmacol** 1990;25(6):430–4

The influence of Na+,K(+)-pump blockade on doxorubicin-mediated cytotoxicity and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Cancer Chemother Pharmacol** 1990;26(3):163–7

Evidence for lack of mitochondrial DNA repair following cis-dichlorodiammineplatinum treatment. Singh G, et al. **Cancer Chemother Pharmacol** 1990;26(2):97–100

Expression of protein-associated DNA damage in the alkaline elution assay in the absence of enzymatic deproteinization. Gewirtz DA, et al. **Cancer Commun** 1989;1(3):175–80

Genistein-induced cell differentiation and protein-linked DNA strand breakage in human melanoma cells. Kiguchi K, et al. **Cancer Commun** 1990;2(8):271–7

Modification of DNA by bile acids: a possible factor in the etiology of colon cancer. Cheah PY, et al. **Cancer Lett** 1990 Mar;49(3):207–10

Is 1,4–dioxane a genotoxic carcinogen? Kitchin KT, et al. **Cancer Lett** 1990 Aug;53(1):67–71

A comparison of levels of intrinsic single strand breaks/alkali labile sites associated with human melanoma cell invasion. Meade–Tollin LC, et al. **Cancer Lett** 1990 Aug;53(1):45–54

Binding of polycyclic and nitropolycyclic aromatic hydrocarbons to specific fractions of rat lung chromatin. Mitchell CE, et al. **Cancer Lett** 1989 Nov 30;48(2):129–34

The effect of prolonged incubations and heat denaturation on melphalan–induced DNA cross–links as measured by the ethidium bromide fluorescence assay. Panasci L, et al. **Cancer Lett** 1990 Apr 20;50(2):129–32

32P–postlabelling analysis of DNA adducts of benzo[a]pyrene formed in complex metabolic activation systems in vitro. Schoket B, et al. **Cancer Lett** 1989 Nov 15;48(1):67–75

Differential scanning calorimetry of nuclei as a test for the effects of anticancer drugs on human chromatin. Almagor M, et al. **Cancer Res** 1989 Oct 15;49(20):5561–6

Distribution of covalent DNA adducts in mouse epidermal subpopulations after topical application of benzo(a)pyrene and 7,12–dimethylbenz(a)anthracene. Baer–Dubowska W, et al. **Cancer Res** 1990 May 15;50(10):3048–54

Differential drug sensitivity conferred by growth status detected in a mixed population of cycling and noncycling cells. Barcellos–Hoff MH, et al. **Cancer Res** 1990 Jun 15; 50(12):3551–5

Activity of quinone alkylating agents in quinone–resistant cells. Begleiter A, et al. **Cancer Res** 1990 May 15; 50(10):2872–6

Damage and repair induced by bleomycin in the domain of human amplified MYC oncogenes. Bianchi NO, et al. **Cancer Res** 1990 Apr 15;50(8):2379–84

Inhibition of DNA excision repair by methotrexate in Chinese hamster ovary cells following exposure to ultraviolet irradiation or ethylmethanesulfonate. Borchers AH, et al. **Cancer Res** 1990 Mar 15;50(6):1786–9

Decreased accumulation as a mechanism of resistance to cis–diamminedichloroplatinum(II) in human non–small cell lung cancer cell lines: relation to DNA damage and repair. Bungo M, et al. **Cancer Res** 1990 May 1;50(9):2549–53

Intracellular DNA strand scission and growth inhibition of Ehrlich ascites tumor cells by bleomycins. Byrnes RW, et al. **Cancer Res** 1990 Sep 1;50(17):5275–86

DNA double–strand break repair pathways and cellular tolerance to inhibitors of topoisomerase II. Caldecott K, et al. **Cancer Res** 1990 Sep 15;50(18):5778–83

Enhancement of anthracycline growth inhibition in parent and multidrug–resistant Chinese hamster ovary cells by cyclosporin A and its analogues. Chambers SK, et al. **Cancer Res** 1989 Nov 15;49(22):6275–9

Macrophage–mediated induction of DNA strand breaks in target tumor cells. Chong YC, et al. **Cancer Res** 1989 Dec 1;49(23):6652–7

Depletion of cellular glutathione by N,N'–bis(trans–4–hydroxycyclohexyl)–N'–nitrosourea as a determinant of sensitivity of K562 human leukemia cells to 4–hydroperoxycyclophosphamide. Chresta CM, et al. **Cancer Res** 1990 Jul 1;50(13):4067–71

Induction of differentiation and DNA strand breakage in human HL–60 and K–562 leukemia cells by genistein. Constantinou A, et al. **Cancer Res** 1990 May 1; 50(9):2618–24

Topoisomerase II–mediated DNA damage of episomes in tumor–bearing mice. Cullinan EB, et al. **Cancer Res** 1990 Oct 1;50(19):6154–7

Reactivity of fecapentaene–12 toward thiols, DNA, and these constituents in human fibroblasts. Dypbukt JM, et al. **Cancer Res** 1989 Nov 1;49(21):6058–63

Oxidative DNA and RNA damage in the livers of Sprague–Dawley rats treated with the hepatocarcinogen 2–nitropropane. Fiala ES, et al. **Cancer Res** 1989 Oct 15; 49(20):5518–22

Flow cytometric analysis of DNA damage and repair in the cells resistant to alkylating agents. Frankfurt OS, et al. **Cancer Res** 1990 Aug 1;50(15):4453–7

DNA damage induced by a new 2–chloroethyl nitrosourea on malignant melanoma cells. Godeneche D, et al. **Cancer Res** 1990 Sep 15;50(18):5898–903

Photosensitization of human leukemic cells by anthracenedione antitumor agents. Hartley JA, et al. **Cancer Res** 1990 Mar 15;50(6):1936–40

Genetic and biochemical characterization of the CHO–UV–1 mutant defective in postreplication recovery of DNA. Hentosh P, et al. **Cancer Res** 1990 Apr 15;50(8):2356–62

3'–Deamino–3'–morpholino–13–deoxo–10–hydroxycarminomycin conquers multidrug resistance by rapid influx following higher frequency of formation of DNA single– and double–strand breaks. Horichi N, et al. **Cancer Res** 1990 Aug 1;50(15):4698–701

Joining of the c–myc gene and a line 1 family member on chromosome 8 in a human primary giant cell carcinoma of the lung. Iizuka M, et al. **Cancer Res** 1990 Jun 1; 50(11):3345–50

Sensitivity of Chinese hamster ovary mutants defective in DNA double strand break repair to topoisomerase II inhibitors. Jeggo PA, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7057–63

Characterization of the DNA–DNA cross–linking activity of 3'–(3–cyano–4–morpholinyl)–3'–deaminoadriamycin. Jesson MI, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7031–6

Lack of drug–induced DNA cross–links in chlorambucil–resistant Chinese hamster ovary cells. Jiang BZ, et al. **Cancer Res** 1989 Oct 15;49(20):5514–7

Induction of endonucleolytic DNA cleavage in human acute myelogenous leukemia cells by etoposide, camptothecin, and other cytotoxic anticancer drugs: a cautionary note. Kaufmann SH. **Cancer Res** 1989 Nov 1;49(21):5870–8

Role of P450IIE1 in the metabolism of 3–hydroxypyridine, a constituent of tobacco smoke: redox cycling and DNA strand scission by the metabolite 2,5–dihydroxypyridine. Kim SG, et al. **Cancer Res** 1990 Sep 1;50(17):5333–9

Programmed cell death during regression of PC–82 human prostate cancer following androgen ablation. Kyprianou N, et al. **Cancer Res** 1990 Jun 15;50(12):3748–53

Effect of the metal chelating agent o–phenanthroline on the DNA and chromosome damage induced by bleomycin in Chinese hamster ovary cells. Larramendy ML, et al. **Cancer Res** 1989 Dec 1;49(23):6583–6

Paradoxical increase in DNA cross–linking in a human ovarian carcinoma cell line resistant to cyanomorpholino doxorubicin. Lau DH, et al. **Cancer Res** 1990 Jul 1; 50(13):4056–60

Induction of DNA strand breaks in cultured rat embryo cells by crocidolite asbestos as assessed by nick translation. Libbus BL, et al. **Cancer Res** 1989 Oct 15;49(20):5713–8

Metabolism and DNA single strand breaks induced by 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone and its analogues in primary culture of rat hepatocytes. Liu LL, et al. **Cancer Res** 1990 Mar 15;50(6):1810–6

Reduction in cis–diamminedichloroplatinum(II)–induced cytotoxicity, sister chromatid exchange, and DNA interstrand cross–links in 9L cells treated with the polyamine biosynthesis inhibitor (2R,5R)–6–heptyne–2,5–diamine. Milam KM, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6945–8

Cleavage of cellular and extracellular Saccharomyces cerevisiae DNA by bleomycin and phleomycin. Moore CW. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6935–40

Synthesis of a duplex oligonucleotide containing a nitrogen mustard interstrand DNA–DNA cross–link. Ojwang JO, et al. **Cancer Res** 1989 Dec 1;49(23):6529–37

Oxidative stress induces DNA damage and inhibits the repair of DNA lesions induced by N–acetoxy–2–acetylaminofluorene in human peripheral mononuclear leukocytes. Pero RW, et al. **Cancer Res** 1990 Aug 1;50(15):4619–25

Metabolism and DNA damage induced by 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone in fetal tissues of the Syrian golden hamster. Rossignol G, et al. **Cancer Res** 1989 Oct 15;49(20):5671–6

Induction of chromosome breaks and sister chromatid exchanges in patients with Hodgkin's disease by two combination chemotherapy regimens of different leukemogenic potential. Sen P, et al. **Cancer Res** 1990 Feb 1;50(3):558–62

Bleomycin–induced DNA damage and repair in human cells permeabilized with lysophosphatidylcholine. Sidik K, et al. **Cancer Res** 1990 Mar 1;50(5):1613–9

Detection of 1,N6–propanodeoxyadenosine in acrolein–modified polydeoxyadenylic acid and DNA by 32P postlabeling. Smith RA, et al. **Cancer Res** 1990 May 15;50(10):3005–12

Influence of vitamin B2 on formation of chromium(V), alkali–labile sites, and lethality of sodium chromate(VI) in Chinese hamster V–79 cells. Sugiyama M, et al. **Cancer Res** 1989 Nov 15;49(22):6180–4

Relationships among benzo(a)pyrene metabolism, benzo(a)pyrene–diol–epoxide:DNA adduct formation, and sister chromatid exchanges in human lymphocytes from smokers and nonsmokers. Thompson CL, et al. **Cancer Res** 1989 Dec 1;49(23):6503–11

Potentiation of topoisomerase inhibitor–induced DNA strand breakage and cytotoxicity by tumor necrosis factor: enhancement of topoisomerase activity as a mechanism of potentiation. Utsugi T, et al. **Cancer Res** 1990 May 1; 50(9):2636–40

Temperature dependence of adriamycin–induced DNA damage in L1210 cells. Vichi P, et al. **Cancer Res** 1989 Oct 15;49(20):5575–80

Differential effect of gestation stage on benzo(a)pyrene–induced micronucleus formation and/or covalent DNA modifications in mice. Wang MY, et al. **Cancer Res** 1990 Apr 1;50(7):2146–51

Liblomycin–mediated DNA cleavage in human head and neck squamous carcinoma cells and purified DNA. Wassermann K, et al. **Cancer Res** 1990 Mar 15;50(6):1732–7

Induction of specific frameshift and base substitution events by benzo[a]pyrene diol epoxide in excision–repair–deficient Escherichia coli. Bernelot–Moens C, et al. **Carcinogenesis** 1990 May;11(5):781–5

Expression of the poly(ADP–ribose) polymerase gene following natural and induced DNA strand breakage and effect of hyperexpression on DNA repair. Bhatia K, et al. **Carcinogenesis** 1990 Jan;11(1):123–8

Chromium cross–links glutathione and cysteine to DNA. Borges KM, et al. **Carcinogenesis** 1989 Nov;10(11):2165–8

Aphidicolin–sensitive DNA repair synthesis in human fibroblasts damaged with bleomycin is distinct from UV–induced repair. DiGiuseppe JA, et al. **Carcinogenesis** 1990 Jun;11(6):1021–6

N–ethyl–N–nitrosourea induces A:T to C:G transversion mutations as well as transition mutations in SOS–induced Escherichia coli. Eckert KA, et al. **Carcinogenesis** 1989 Dec;10(12):2261–7

Singlet oxygen as an ultimately reactive species in Salmonella typhimurium DNA damage induced by methylene blue/visible light. Epe B, et al. **Carcinogenesis** 1989 Nov; 10(11):2019–24

Nitrogen dioxide induces DNA single–strand breaks in cultured Chinese hamster cells. Göradorf S, et al. **Carcinogenesis** 1990 Jan;11(1):37–41

Sex and organ differences in oxidative DNA and RNA damage due to treatment of Sprague–Dawley rats with acetoxime or 2–nitropropane. Guo N, et al. **Carcinogenesis** 1990 Sep;11(9):1659–62

Formation and removal of DNA adducts in target and nontarget tissues of rats administered multiple doses of 2–acetylaminophenanthrene. Gupta RC, et al. **Carcinogenesis** 1989 Nov;10(11):2025–33

Oxidative DNA and RNA damage in rat liver due to acetoxime: similarity to effects of 2–nitropropane. Hussain NS, et al. **Carcinogenesis** 1990 Jun;11(6):1013–6

Radioresistant derivatives of an X–ray–sensitive CHO cell line exhibit distinct patterns of sensitivity to DNA–damaging agents. Jaffe DR, et al. **Carcinogenesis** 1990 Aug;11(8):1265–9

Biochemical characteristics of endonuclease activity within the nucleotidyl DNA excision repair pathway of permeable human fibroblasts. Kaufmann WK, et al. **Carcinogenesis** 1990 Jan;11(1):15–9

Site–specific DNA damage induced by nickel(II) ion in the presence of hydrogen peroxide. Kawanishi S, et al. **Carcinogenesis** 1989 Dec;10(12):2231–5

Non–B DNA structure: preferential target for the chemical carcinogen glycidaldehyde. Kohwi Y. **Carcinogenesis** 1989 Nov;10(11):2035–42

2–aminofluorene–hepatic DNA adducts in congenic mouse lines differing in Ah responsiveness. Levy GN, et al. **Carcinogenesis** 1990 Jul;11(7):1233–5

A novel DNA lesion in neoplastic livers of feral fish: 2,6–diamino–4–hydroxy–5–formamidopyrimidine. Malins DC, et al. **Carcinogenesis** 1990 Jun;11(6):1045–7

Synchronous fluorescence spectroscopic, immunoaffinity chromatographic and 32P–postlabeling analysis of human placental DNA known to contain benzo[a]pyrene diol epoxide adducts. Manchester DK, et al. **Carcinogenesis** 1990 Apr;11(4):553–9

Uncoupling of DNA excision repair and nucleosomal unfolding in poly(ADP–ribose)–depleted mammalian cells. Mathis G, et al. **Carcinogenesis** 1990 Jul;11(7):1237–9

Correlation between the DNA damage in urinary bladder epithelium and the urinary 2–phenyl–1,4–benzoquinone levels from F344 rats fed sodium o–phenylphenate in the diet. Morimoto K, et al. **Carcinogenesis** 1989 Oct; 10(10):1823–7

Monoclonal antibody–based immunoassay for the determination of cellular enzymatic activity for repair of specific carcinogen–DNA adducts (O6–alkylguanine). Nehls P, et al. **Carcinogenesis** 1990 Jan;11(1):81–7

Chemical structure and genotoxic activity of the hepatocarcinogenic beta–blocker DL–ZAMI 1305. Presta M, et al. **Carcinogenesis** 1990 Feb;11(2):261–5

Strand scission in DNA induced by quercetin and Cu(II): role of Cu(I) and oxygen free radicals. Rahman A, et al. **Carcinogenesis** 1989 Oct;10(10):1833–9

32P–postlabeling assay for carcinogen–DNA adducts: description of beta shielding apparatus and semi–automatic spotting and washing devices that facilitate the handling of multiple samples. Reddy MV, et al. **Carcinogenesis** 1990 Apr;11(4):683–7

Repair of X–ray–induced single–strand breaks by a cell–free system. Seki S, et al. **Carcinogenesis** 1990 Jul;11(7):1213–6

Immunohistochemical demonstration of carcinogen–DNA adducts in target and non–target tissues of rats given a prostate carcinogen, 3,2'–dimethyl–4–aminobiphenyl. Shirai T, et al. **Carcinogenesis** 1990 Apr;11(4):653–7

Involvement of DNA topoisomerase II in the selective resistance of a mammalian cell mutant to DNA minor groove ligands: ligand–induced DNA–protein crosslinking and responses to topoisomerase poisons. Smith PJ, et al. **Carcinogenesis** 1990 Apr;11(4):659–65

Detection and characterization of carcinogen–DNA adducts in exfoliated urothelial cells from 4–aminobiphenyl–treated dogs by 32P–postlabelling and subsequent thin–layer and high–pressure liquid chromatography. Talaska G, et al. **Carcinogenesis** 1990 Apr;11(4):639–46

A pathway for generation and processing of double–strand breaks during meiotic recombination in S. cerevisiae. Cao L, et al. **Cell** 1990 Jun 15;61(6):1089–101

DNA single–strand breaks, double–strand breaks, and crosslinks in rat testicular germ cells: measurements of their formation and repair by alkaline and neutral filter elution. Bradley MO, et al. **Cell Biol Toxicol** 1985 Jun;1(3):181–95

Inducible cellular responses to ultraviolet light irradiation and other mediators of DNA damage in mammalian cells. Ronai ZA, et al. **Cell Biol Toxicol** 1990 Jan;6(1):105–26 (100 ref.)

Formation, resealing and persistence of DNA breaks produced by 4–demethoxydaunorubicin in P388 leukemia cells. Capranico G, et al. **Chem Biol Interact** 1989; 72(1–2):113–23

The role of hydroxyl radicals in tetrachlorohydroquinone

induced DNA strand break formation in PM2 DNA and human fibroblasts. Carstens CP, et al. **Chem Biol Interact** 1990;74(3):305–14

Detection of DNA strand breaks in Escherichia coli treated with platinum(IV) antitumor compounds. Defais M, et al. **Chem Biol Interact** 1990;74(3):343–52

Inhibition of Chinese hamster ovary cell DNA synthesis by hydrogen peroxide. Fiorani M, et al. **Chem Biol Interact** 1990;76(1):129–39

Further evidence for photoinduced genotoxicity of dictamnine as shown by prophage induction. Fujita H, et al. **Chem Biol Interact** 1989;72(1–2):105–11

Use of differential DNA-repair host mediated assays to investigate the biotransformation of xenobiotics in Drosophila melanogaster. I. Genotoxic effects of nitrosoamines. Knasmuller S, et al. **Chem Biol Interact** 1990; 75(1):17–29

Alternating current voltammetric determination of DNA damage. Krznarić D, et al. **Chem Biol Interact** 1990; 76(1):111–28

Cigarette smoke-induced DNA-damage: role of hydroquinone and catechol in the formation of the oxidative DNA-adduct, 8-hydroxydeoxyguanosine. Leanderson P, et al. **Chem Biol Interact** 1990;75(1):71–81

Effects of tert-butyl hydroperoxide on promotable and non-promotable JB6 mouse epidermal cells. Müehlematter D, et al. **Chem Biol Interact** 1989;71(4):339–52

Differential effects of glutathione depletion and metallothionein induction on the induction of DNA single-strand breaks and cytotoxicity by tert-butyl hydroperoxide in cultured mammalian cells. Ochi T, et al. **Chem Biol Interact** 1989;72(3):335–45

Fluorescence postlabeling assay of cis-thymidine glycol monophosphate in X-irradiated calf-thymus DNA. Sharma M, et al. **Chem Biol Interact** 1990;74(1–2):107–17

Induction of DNA double-strand breaks in Chinese hamster V79 cells by 2-chlorodeoxyadenosine. Tanabe K, et al. **Chem Biol Interact** 1989;71(2–3):167–75

DNA–protein, DNA interstrand cross-links induced by camphoramine chloroacetic platinum in vitro. Wang LG, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 May;10(3):261–5

Comparison of DNA breaks in diabetic dogs and galactosemic dogs developing retinopathy. Kern TS, et al. **Curr Eye Res** 1989 Aug;8(8):765–9

The UV excision-repair system of Saccharomyces cerevisiae is involved in the removal of methylcytosines formed in vivo by a cloned prokaryotic DNA methyltransferase. Fehér Z, et al. **Curr Genet** 1989 Dec;16(5–6):461–4

Reassessing the genotoxic potential of 8-MOP + UVA-induced DNA damage in the yeast Saccharomyces cerevisiae. Henriques JA, et al. **Curr Genet** 1989 Aug; 16(2):75–80

Denaturing effect of acridine orange and adriamycin. Cerdán ME, et al. **Cytobios** 1989;60(242–243):151–5

Chromosome breakage induced by bleomycin in an ataxia telangiectasia lymphoblastoid line: correlation with fragile sites and Epstein–Barr virus DNA localization. Caporossi D, et al. **Cytogenet Cell Genet** 1989;52(3–4):180–5

Flow cytometric recognition of clastogen induced chromatin damage in G0/G1 lymphocytes by non-stoichiometric Hoechst fluorochrome binding. Kubbies M. **Cytometry** 1990;11(3):386–94

Decrease of ultraviolet-induced DNA injury in human skin by p-aminobenzoic acid esters. De Rijcke S, et al. **Dermatologica** 1989;179(4):196–9

Differential repair of UV damage in Saccharomyces cerevisiae is cell cycle dependent. Terleth C, et al. **EMBO J** 1990 Sep;9(9):2899–904

Melanin photosensitizes ultraviolet light (UVC) DNA damage in pigmented cells. Huselton CA, et al. **Environ Mol Mutagen** 1990;16(1):37–43

In vitro transcription assay of ozonated T7 phage DNA. Mura C, et al. **Environ Mol Mutagen** 1990;16(1):44–7

Evaluation of genotoxic effects of the herbicide dicamba using in vivo and in vitro test systems. Perocco P, et al. **Environ Mol Mutagen** 1990;15(3):131–5

Assay-specific genotoxicity of N-nitrosodibenzylamine to the rat liver in vivo. Schmezer P, et al. **Environ Mol Mutagen** 1990;15(4):190–7

Illusory DNA breaks in quiescent lymphocytes? Boerrigter ME, et al. **Exp Cell Res** 1990 May;188(1):1

DNA single-strand breaks in adult and embryonic avian erythrocytes. Guy SP, et al. **Exp Cell Res** 1990 Sep; 190(1):141–4

DNA breaks in quiescent lymphocytes [letter; comment] Johnstone AP, et al. **Exp Cell Res** 1989 Oct;184(2):558–9 Comment on: Exp Cell Res 1989 Feb;180(2):569–73.

Cigarette smoke induces DNA adducts in lungs of rats after inhalation. Bond JA, et al. **Exp Pathol** 1989;37(1–4):190–3

Biological studies on 1,2-benzisothiazole derivatives. III. Evaluation of antibacterial, antifungal and DNA-damaging activities of 1,2-benzisothiazolin-3-ones. Massimo G, et al. **Farmaco** 1990 Apr;45(4):439–46

Biological studies on 1,2-benzisothiazole derivatives. I. Evaluation of antibacterial, antifungal and DNA-damaging activity. Vicini P, et al. **Farmaco** 1989 May;44(5):511–7

Biological studies on 1,2-benzisothiazole derivatives. II. Evaluation of antibacterial, antifungal and DNA-damaging activities of 3-amino, 3-acylamino, 3-alkylaminoacylamino derivatives. Zani F, et al. **Farmaco** 1989 Oct; 44(10):997–1006

Cytochalasin B induces cellular DNA fragmentation. Kolber MA, et al. **FASEB J** 1990 Sep;4(12):3021–7

NK cell-induced cytotoxicity is dependent on a Ca2+ increase in the target. McConkey DJ, et al. **FASEB J** 1990 Jun;4(9):2661–4

Non-random spontaneous chain breakages occur in DNA methylated with dimethyl sulfate. Dölle A, et al. **FEBS Lett** 1989 Sep 25;255(2):451–4

Porphyrin-linked oligonucleotides. Synthesis and sequence-specific modification of ssDNA. Frolova EI, et al. **FEBS Lett** 1990 Aug 20;269(1):101–4

Stress-induced protein synthesis in Chlamydomonas reinhardtii. Nicholson P, et al. **FEMS Microbiol Lett** 1989 Aug;51(3):283–7

Endogenous oxidative DNA damage, aging, and cancer. Ames BN. **Free Radic Res Commun** 1989;7(3–6):121–8 (33 ref.)

Intracellular Ca2+ chelators prevent DNA damage and protect hepatoma 1C1C7 cells from quinone-induced cell killing. Dypbukt JM, et al. **Free Radic Res Commun** 1990; 8(4–6):347–54

Bleomycin-iron damage to DNA with formation of 8-hydroxydeoxyguanosine and base propenals. Indications that xanthine oxidase generates superoxide from DNA degradation products. Gutteridge JM, et al. **Free Radic Res Commun** 1990;10(3):159–65

The role of hydroxyl radical in chromosomal and plasmid damage in Neisseria gonorrhoeae in vivo. Hassett DJ, et al. **Free Radic Res Commun** 1989;7(2):83–7

Intracellular oxidative cleavage of DNA in Escherichia coli by the copper-1,10-phenanthroline complex. Lickl E, et al. **Free Radic Res Commun** 1989;8(1):37–45

Bacitracin and a bacitracin-zinc complex damage DNA and carbohydrate in the presence of iron and copper salts. Quinlan GJ, et al. **Free Radic Res Commun** 1989;7(1):37–44

DNA single strand breakage by H2O2 and ferric or cupric ions: its modulation by histidine. Tachon P. **Free Radic Res Commun** 1990;9(1):39–47

Ferric and cupric ions requirement for DNA single-strand breakage by H2O2. Tachon P. **Free Radic Res Commun** 1989;7(1):1–10

Two genes differentially regulated in the cell cycle and by DNA-damaging agents encode alternative regulatory subunits of ribonucleotide reductase. Elledge SJ, et al. **Genes Dev** 1990 May;4(5):740–51

Pedigree analyses of yeast cells recovering from DNA damage allow assignment of lethal events to individual post-treatment generations. Klein F, et al. **Genetics** 1990 Jan;124(1):57–65

Phenotypic expression of primary lesions of genetic material in Saccharomyces yeasts. Inge-Vechtomov SG, et al. **Genome** 1989;31(2):497–502

Comparative analysis of the inherent radiosensitivity of ovarian carcinoma. Rotmensch J, et al. **Gynecol Obstet Invest** 1989;28(4):215–8

Production and repair of DNA damage in mammalian cells. Leadon SA. **Health Phys** 1990 Jul;59(1):15–22 (51 ref.)

Modeling the biological effectiveness of high-LET radiation. Miller JH, et al. **Health Phys** 1989;57 Suppl 1:363–7

DNA fragmentation in cytolysis [letter; comment] Vaux D. **Immunol Today** 1989 Oct;10(10):325 Comment on: Immunol Today 1989 Mar;10(3):79–86.

Comparison of DNA cleavage induced by etoposide and doxorubicin in two human small-cell lung cancer lines with different sensitivities to topoisomerase II inhibitors. Binaschi M, et al. **Int J Cancer** 1990 Feb 15;45(2):347–52

Increased levels of 5-fluorouracil-induced DNA lesions in Bloom's syndrome. Lönn U, et al. **Int J Cancer** 1990 Mar 15;45(3):494–9

Increase in topoisomerase-II-mediated DNA breaks and cytotoxicity of VP16 in human U937 lymphoma cells pretreated with low doses of methotrexate. Lorico A, et al. **Int J Cancer** 1990 Jan 15;45(1):156–62

Influence of pre-treatment with DNA-damaging agents on hyperthermic potentiation in cell killing of ultraviolet light-irradiated Dictyostelium discoideum. Iwata K, et al. **Int J Hyperthermia** 1990 May-Jun;6(3):619–27

Apoptosis induced in macrophages and T blasts by the mycotoxin sporidesmin and protection by Zn2+ salts. Waring P, et al. **Int J Immunopharmacol** 1990;12(4):445–57

Calibration of pulsed field gel electrophoresis for measurement of DNA double-strand breaks. Ager DD, et al. **Int J Radiat Biol** 1990 Aug;58(2):249–59

DNA base and strand damage in X-irradiated monkey CV-1 cells: influence of pretreatment using small doses of radiation. Bases R, et al. **Int J Radiat Biol** 1990 Jul; 58(1):35–54

CHEF electrophoresis, a sensitive technique for the determination of DNA double-strand breaks. Blöcher D, et al. **Int J Radiat Biol** 1989 Oct;56(4):437–48

DNA double-strand break analysis by CHEF (clamped homogeneous electrical field) electrophoresis. Blöcher D, et al. **Int J Radiat Biol** 1990 Jul;58(1):23–34

The induction of DNA double-strand breaks in CHO cells by Pvu II: kinetics using neutral filter elution (pH 9.6). Costa ND, et al. **Int J Radiat Biol** 1990 May;57(5):933–8

The rejoining of DNA double-strand breaks following irradiation with 238Pu alpha-particles: evidence for a fast component of repair as measured by neutral filter elution. Fox JC, et al. **Int J Radiat Biol** 1990 Mar;57(3):513–21

Fast kinetics of the oxygen effect for DNA double-strand breakage and cell killing in irradiated yeast. Frankenberg D, et al. **Int J Radiat Biol** 1990 Mar;57(3):485–501

Identification of proteins whose synthesis in Saccharomyces cerevisiae is induced by DNA damage and heat shock. Gailit J. **Int J Radiat Biol** 1990 May;57(5):981–92

The initial physical damage produced by ionizing radiations. Goodhead DT. **Int J Radiat Biol** 1989 Nov;56(5):623–34 (23 ref.)

Radiosensitivity throughout the cell cycle and repair of potentially lethal damage and DNA double-strand breaks in an X-ray-sensitive CHO mutant. Iliakis GE, et al. **Int J Radiat Biol** 1990 Jun;57(6):1195–211

The kinetics of radiation-induced strand breakage in polynucleotides in the presence of oxygen: a time-resolved light-scattering study. Jones GD, et al. **Int J Radiat Biol** 1990 Jun;57(6):1123–39

Correlation between non-repairable DNA lesions and fixation of cell damage by hypertonic solutions in Chinese hamster cells. Kosaka T, et al. **Int J Radiat Biol** 1990 Sep; 58(3):417–25

1st L. H. Gray Workshop. Measurement of radiation-induced damage. McMillan TJ, et al. **Int J Radiat Biol** 1990 Sep; 58(3):391–6

The relationship of DNA double-strand break induction to radiosensitivity in human tumour cell lines. McMillan TJ, et al. **Int J Radiat Biol** 1990 Sep;58(3):427–38

Comparative effect of the thiols dithiothreitol, cysteamine and WR-151326 on survival and on the induction of DNA damage in cultured Chinese hamster ovary cells exposed to gamma-radiation. Murray D, et al. **Int J Radiat Biol** 1990 Jul;58(1):71–91

Initial damage or repair as the major determinant of cellular radiosensitivity? Peacock JH, et al. **Int J Radiat Biol** 1989 Nov;56(5):543–7

Non-linear dose-effect curve for DNA double-strand breaks by low LET radiation: the effect of eluting buffer composition on the measurement of breaks by the filter elution technique. Prise KM, et al. **Int J Radiat Biol** 1989 Dec;56(6):943–50

The irradiation of V79 mammalian cells by protons with energies below 2 MeV. Part II. Measurement of oxygen enhancement ratios and DNA damage. Prise KM, et al. **Int J Radiat Biol** 1990 Aug;58(2):261–77

Lysis solution composition and non-linear dose-response to ionizing radiation in the non-denaturing DNA filter elution technique. Radford IR. **Int J Radiat Biol** 1990 Mar; 57(3):479–83

The formation of strand breaks in DNA after high-LET irradiation: a comparison of data from in vitro and cellular systems. Roots R, et al. **Int J Radiat Biol** 1990 Jul; 58(1):55–69 (27 ref.)

Selenite-induced increase in glutathione peroxidase activity protects human cells from hydrogen peroxide-induced DNA damage, but not from damage inflicted by ionizing radiation. Sandström BE, et al. **Int J Radiat Biol** 1989 Nov; 56(5):837–41

Protein-DNA crosslinks induced by primary and secondary radicals. Schuessler H, et al. **Int J Radiat Biol** 1989 Oct; 56(4):423–35

Studies of DNA damage and repair of thermal- and radiation-induced lesions in human cells. Vilenchik MM. **Int J Radiat Biol** 1989 Nov;56(5):685–9

Enhancement of radiation damage in cellular DNA following unifilar substitution with iododeoxyuridine. Fornace AJ Jr, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr;18(4):873–8

Enhanced DNA repair and tolerance of DNA damage associated with resistance to cis-diammine-dichloroplatinum (II) after in vitro exposure of a human teratoma cell line to fractionated X-irradiation. Hill BT, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul; 19(1):75–83

The "recall effect" in radiotherapy: is subeffective, reparable damage involved? Kitani H, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):689–95

Mechanism of action of a new macromolecular antitumor antibiotic, C-1027. Sugimoto Y, et al. **J Antibiot (Tokyo)** 1990 Apr;43(4):417–21

Electrochemical characteristics of five quinolone drugs and their effect on DNA damage and repair in Escherichia coli. Thomas A, et al. **J Antimicrob Chemother** 1990 May; 25(5):733–44

Desferrioxamine-induced alterations in hepatic iron distribution, DNA damage and lipid peroxidation in control and 2,3,7,8-tetrachlorodibenzo-p-dioxin-treated rats. Wahba ZZ, et al. **J Appl Toxicol** 1990 Apr;10(2):119–24

Induction of the SOS response by hydrogen peroxide in various Escherichia coli mutants with altered protection against oxidative DNA damage. Goerlich O, et al. **J Bacteriol** 1989 Nov;171(11):6141–7

Molecular cloning and characterization of an Erwinia carotovora subsp. carotovora pectin lyase gene that responds to DNA-damaging agents. McEvoy JL, et al. **J Bacteriol** 1990 Jun;172(6):3284–9

The formation of 2-aminofluorene-DNA adducts in vivo: evidence for peroxidase-mediated activation. Krauss RS, et al. **J Biochem Toxicol** 1989 Summer;4(2):111–7

Damage to the bases in DNA induced by hydrogen peroxide and ferric ion chelates. Aruoma OI, et al. **J Biol Chem** 1989 Dec 5;264(34):20509–12

A role for the metal binding domain in determining the DNA sequence selectivity of Fe-bleomycin. Carter BJ, et al. **J Biol Chem** 1990 Mar 15;265(8):4193–6

Sequence-specific double-strand breakage of DNA by neocarzinostatin involves different chemical mechanisms

within a staggered cleavage site. Dedon PC, et al. **J Biol Chem** 1990 Sep 5;265(25):14713–6

The adaptive response to alkylation damage. Constitutive expression through a mutation in the coding region of the ada gene. Hughes SJ, et al. **J Biol Chem** 1989 Dec 15; 264(35):21369–75

Isolation and characterization of the hamster gadd153 gene. Activation of promoter activity by agents that damage DNA. Luethy JD, et al. **J Biol Chem** 1990 Sep 25; 265(27):16521–6

DNA damage promotes jumping between templates during enzymatic amplification. Pääbo S, et al. **J Biol Chem** 1990 Mar 15;265(8):4718–21

DNA damage induced by phorbol ester-stimulated neutrophils is augmented by extracellular cofactors. Role of histidine and metals. Shacter E, et al. **J Biol Chem** 1990 Apr 25;265(12):6693–9

Heterogeneity of nitrogen mustard-induced DNA damage and repair at the level of the gene in Chinese hamster ovary cells. Wassermann K, et al. **J Biol Chem** 1990 Aug 15; 265(23):13906–13

DNA repair at the level of the gene: molecular and clinical considerations. Bohr VA. **J Cancer Res Clin Oncol** 1990; 116(4):384–91 (20 ref.)

Differential repair and replication of damaged DNA in ribosomal RNA genes in different CHO cell lines. Wauthier EL, et al. **J Cell Biochem** 1990 Jun;43(2):173–83

19th annual UCLA symposium: Ionizing radiation damage to DNA: molecular aspects. Abstracts. **J Cell Biochem Suppl** 1990;14A:21–84

Cellular and adenovirus dl312 DNA metabolism in cycling or mitotic human cultures exposed to supralethal gamma radiation. Ross PM. **J Cell Biol** 1989 Nov;109(5):1993–2002

Arabinosylcytosine-induced accumulation of DNA nicks in myotube nuclei detected by in situ nick translation. Masuck TM, et al. **J Cell Physiol** 1990 Jul;144(1):12–7

Damage to the bases in DNA induced by stimulated human neutrophils. Jackson JH, et al. **J Clin Invest** 1989 Nov; 84(5):1644–9

Purified perforin induces target cell lysis but not DNA fragmentation. Duke RC, et al. **J Exp Med** 1989 Oct 1; 170(4):1451–6

IL-2 protects T lymphocytes from glucocorticoid-induced DNA fragmentation and cell death. Nieto MA, et al. **J Immunol** 1989 Dec 15;143(12):4166–70

T cell receptor-mediated DNA fragmentation and cell death in T cell hybridomas. Odaka C, et al. **J Immunol** 1990 Mar 15;144(6):2096–101

Activation-induced cell death in T cell hybridomas is due to apoptosis. Morphologic aspects and DNA fragmentation. Shi YF, et al. **J Immunol** 1990 May 1; 144(9):3326–33

Activation-driven T cell death. I. Requirements for de novo transcription and translation and association with genome fragmentation. Ucker DS, et al. **J Immunol** 1989 Dec 1; 143(11):3461–9

Repair of 254 nm ultraviolet-induced (6-4) photoproducts: monoclonal antibody recognition and differential defects in xeroderma pigmentosum complementation groups A, D, and variant. Hiramoto T, et al. **J Invest Dermatol** 1989 Nov;93(5):703–6

Origin of ultraviolet damage in DNA. Becker MM, et al. **J Mol Biol** 1989 Dec 5;210(3):429–38

Oxidative DNA damage photo-induced by 3-carbethoxypsoralen and other furocoumarins. Mechanisms of photo-oxidation and recognition by repair enzymes. Sage E, et al. **J Mol Biol** 1989 Sep 20; 209(2):297–314

The formation of mispairs by 8-oxyguanine as a pathway of mutations induced by irradiation and oxygen radicals. Poltev VI, et al. **J Mol Recognit** 1990 Feb;3(1):45–7

Detection of etoposide resistance by measuring DNA damage in individual Chinese hamster cells. Olive PL, et al. **J Natl Cancer Inst** 1990 May 2;82(9):779–83

Enhanced chromatid damage in blood lymphocytes after G2 phase x irradiation, a marker of the ataxia-telangiectasia gene. Sanford KK, et al. **J Natl Cancer Inst** 1990 Jun 20; 82(12):1050–4

Adriamycin-induced DNA strand breaks in HeLa and in P388 leukaemia cells detected using in situ nick translation. Maehara Y, et al. **J Pathol** 1989 Dec;159(4):323–7

Nucleic acids, DNA repair, photomutagenesis. Piette J. **J Photochem Photobiol B** 1990 Apr 15;5(2):275–6

Mutagenic and genotoxic properties of singlet oxygen. Piette J. **J Photochem Photobiol B** 1990 Jan;4(3):335–9 (31 ref.)

Benzo[a]pyrene-induced immunotoxicity: comparison to DNA adduct formation in vivo, in cultured splenocytes, and in microsomal systems. Ginsberg GL, et al. **J Toxicol Environ Health** 1989;28(2):205–20

Rapid screening of potential human bladder carcinogens: genotoxicity in meiosis repair deficient Drosophila melanogaster. Lamm LM, et al. **J Urol** 1989 Nov; 142(5):1356–8

Sunlight, DNA damage and skin cancer: a new perspective. Bridges B. **Jpn J Cancer Res** 1990 Feb;81(2):105–7 (20 ref.)

Inductions of ornithine decarboxylase and replicative DNA synthesis but not DNA single strand scission or unscheduled DNA synthesis in the pyloric mucosa of rat stomach by catechol. Furihata C, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1052–7

In situ freezing of the rat urinary bladder: DNA adduct formation in the bladder epithelium demonstrated by 32P-postlabeling assay. Hasegawa R, et al. **Jpn J Cancer Res** 1989 Sep;80(9):826–32

Smoking and DNA damage in cervical cells [letter] Phillips DH, et al. **Lancet** 1990 Feb 17;335(8686):417

Cytotoxicity and mutagenicity of excimer laser radiation. Kochevar IE. **Lasers Surg Med** 1989;9(5):440–5

Mechanism of action of 5-AZA-dC: induced DNA hypomethylation does not lead to aberrant gene expression in human leukemic CEM cells. Bouchard J. **Leuk Res** 1989; 13(8):715–22

DNA strand breaks in human leukocytes induced by chemotherapy and total body irradiation. Franssen C, et al. **Leuk Res** 1990;14(1):91–7

Relationship between life expectancy and endogenous DNA single-strand breakage, strand break induction and DNA repair capacity in the adult housefly, Musca domestica. Newton RK, et al. **Mech Ageing Dev** 1989 Sep;49(3):259–70 (22 ref.)

Gene conversion in Streptococcus pneumoniae. Sicard AM. **Microbiologia** 1987 Feb;3(1):5–12 (57 ref.)

Differential effects of chromium(VI) on constitutive and inducible gene expression in chick embryo liver in vivo and correlation with chromium(VI)-induced DNA damage. Hamilton JW, et al. **Mol Carcinog** 1989;2(5):274–86

Chromosome site-specific immunohistochemical detection of DNA adducts in N-acetoxy-2-acetylaminofluorene--exposed Chinese hamster ovary cells. Olivero OA, et al. **Mol Carcinog** 1990; 3(1):37–43

DNA damage stimulates human cell transformation by integrative but not episomal Epstein-Barr virus-derived plasmid. Vos JM, et al. **Mol Carcinog** 1989;2(5):237–44

Fuel smoke condensate induced DNA damage in human lymphocytes and protection by turmeric (Curcuma longa). Shalini VK, et al. **Mol Cell Biochem** 1990 Jun 1;95(1):21–30

Carcinogen-induced DNA amplification in vitro: overreplication of the simian virus 40 origin region in extracts from carcinogen-treated CO60 cells. Berko-Flint Y, et al. **Mol Cell Biol** 1990 Jan;10(1):75–83

Identification of the DNA damage-responsive element of RNR2 and evidence that four distinct cellular factors bind it. Elledge SJ, et al. **Mol Cell Biol** 1989 Dec;9(12):5373–86

DNA damage induction of ribonucleotide reductase. Elledge SJ, et al. **Mol Cell Biol** 1989 Nov;9(11):4932–40

Mammalian genes coordinately regulated by growth arrest signals and DNA-damaging agents. Fornace AJ Jr, et al. **Mol Cell Biol** 1989 Oct;9(10):4196–203

A constitutive damage-specific DNA-binding protein is synthesized at higher levels in UV-irradiated primate cells. Hirschfeld S, et al. **Mol Cell Biol** 1990 May;10(5):2041–8

Expression of the yeast PHR1 gene is induced by DNA-damaging agents. Sebastian J, et al. **Mol Cell Biol** 1990 Sep;10(9):4630–7

UV-induced DNA damage is an intermediate step in UV-induced expression of human immunodeficiency virus type 1, collagenase, c-fos, and metallothionein. Stein B, et al. **Mol Cell Biol** 1989 Nov;9(11):5169–81

Differential repair of UV damage in rad mutants of Saccharomyces cerevisiae: a possible function of G2 arrest upon UV irradiation. Terleth C, et al. **Mol Cell Biol** 1990 Sep;10(9):4678–84

Structure of the DNA damage-inducible gene DDR48 and evidence for its role in mutagenesis in Saccharomyces cerevisiae. Treger JM, et al. **Mol Cell Biol** 1990 Jun; 10(6):3174–84

The DNA damage-inducible gene DIN1 of Saccharomyces cerevisiae encodes a regulatory subunit of ribonucleotide reductase and is identical to RNR3. Yagle K, et al. **Mol Cell Biol** 1990 Oct;10(10):5553–7

DNA damage activates transcription and transposition of yeast Ty retrotransposons. Bradshaw VA, et al. **Mol Gen Genet** 1989 Sep;218(3):465–74

Repair of alkylation damage in Saccharomyces cerevisiae. Goth-Goldstein R, et al. **Mol Gen Genet** 1990 May; 221(3):353–7

Interaction of DNA intercalator 3-nitrobenzothiazolo (3,2-a)quinolinium with DNA topoisomerases: a possible-mechanism for its biological activity. Báez A, et al. **Mol Pharmacol** 1990 Mar;37(3):377–82

Comparative genotoxicities of procarbazine and two deuterated analogs in mammalian cells in vitro and in vivo. Holme JA, et al. **Mutagenesis** 1989 Sep;4(5):355–60

Repair kinetics in CHO cells of X-ray induced DNA damage and chromatid aberrations during a cell cycle extended by transient hypothermia. MacLeod RA, et al. **Mutagenesis** 1990 May;5(3):279–83

DNA damage induced in mouse peritoneal exudate cells after in vivo administration of chemical and physical agents as determined by alkaline elution. Nishi Y, et al. **Mutagenesis** 1990 Jan;5(1):55–61

Determination of benzidine—DNA adduct formation in CHO, HeLa, L5178Y, TK6 and V79 cells. Phillips DH, et al. **Mutagenesis** 1990;5 Suppl:67–9

Non-genotoxic carcinogenesis: impiications for testing and extrapolation to man. Roe FJ. **Mutagenesis** 1989 Nov; 4(6):407–11 (37 ref.)

DNA alkylations and mutation after exposure to ethyl methanesulphonate in mammalian cell lines routinely used in mutagenicity testing. Waters R, et al. **Mutagenesis** 1990; 5 Suppl:61–5

Molecular dosimetry of DNA adducts in Chinese hamster ovary cells and C3H10T1/2 mouse embryo fibroblast cells treated with benzo[a]pyrene. Watson WP, et al. **Mutagenesis** 1990 Jul;5(4):381–5

DNAging. Genetic instability and aging. **Mutat Res** 1990 Jan; 237(1):1–57

The induction of DNA-strand breaks and unscheduled DNA synthesis in F-344 rat hepatocytes following in vivo administration of caprolactam or benzoin. Bermudez E, et al. **Mutat Res** 1989 Nov;224(3):361–4

The role of excision repair in the removal of transient benzo[a]pyrene-induced DNA lesions in Chinese hamster ovary cells. Blakey DH, et al. **Mutat Res** 1990 Jul; 236(1):35–41

Acrylonitrile-induced sister-chromatid exchanges and DNA single-strand breaks in adult human bronchial epithelial cells. Chang CM, et al. **Mutat Res** 1990 Aug;241(4):355–60

Comparative induction of gene mutations and chromosome damage by 1-methoxy-1,3,5-cycloheptatriene (MCHT), 2. Results using L5178Y mouse lymphoma cells to detect both gene and chromosome damage; validation with ionizing radiation, methyl methanesulphonate, ethyl methanesulphonate and benzo[a]pyrene. Cole J, et al. **Mutat Res** 1990 May;230(1):81–91

Biochemical and cytogenetical characterization of Chinese hamster ovary X-ray-sensitive mutant cells xrs 5 and xrs 6. VI. The correlation between UV-induced DNA lesions and chromosomal aberrations, and their modulations with inhibitors of DNA repair synthesis. Darroudi F, et al. **Mutat Res** 1990 Mar;235(2):129–35

Biochemical and cytogenetical characterization of Chinese hamster ovary X-ray-sensitive mutant cells xrs 5 and xrs 6. V. The correlation of DNA strand breaks and base damage to chromosomal aberrations and sister-chromatid exchanges induced by X-irradiation. Darroudi F, et al. **Mutat Res** 1990 Mar;235(2):119–27

Mutation induced by DNA damage: a many protein affair. Echols H, et al. **Mutat Res** 1990 Sep-Nov;236(2-3):301–11 (90 ref.)

The effect of pentachlorophenol and its metabolite tetrachlorohydroquinone on cell growth and the induction of DNA damage in Chinese hamster ovary cells. Ehrlich W. **Mutat Res** 1990 Aug;244(4):299–302

'Petite' mutagenesis and mitotic crossing-over in yeast by DNA-targeted alkylating agents. Ferguson LR, et al. **Mutat Res** 1989 Dec;215(2):213–22

Evidence for AP site formation related to DNA-oxygen alkylation in CHO cells treated with ethylating agents. Fortini P, et al. **Mutat Res** 1990 Jul;236(1):129–37

Increased sensitivity to killing by restriction enzymes in the XR-1 DNA double-strand break repair-deficient mutant. Giaccia AJ, et al. **Mutat Res** 1990 Jul;236(1):67–76

Repair of ozone-induced DNA lesions in Escherichia coli B cells. Hamelin C, et al. **Mutat Res** 1989 Oct;214(2):253–5

Indirect mechanism of lead-induced genotoxicity in cultured mammalian cells. Hartwig A, et al. **Mutat Res** 1990 May; 241(1):75–82

No measurable increase in thymidine glycol or 8-hydroxydeoxyguanosine in liver DNA of rats treated with nafenopin or choline-devoid low-methionine diet. Hegi ME, et al. **Mutat Res** 1990 May;238(3):325–9

The 8-hydroxyguanine content of isolated mitochondria increases with lipid peroxidation. Hruszkewycz AM, et al. **Mutat Res** 1990 Jun;244(2):123–8

Modification of deoxyribose-phosphate residues by extracts of ataxia telangiectasia cells. Karam LR, et al. **Mutat Res** 1990 Jul;236(1):19–26

5-Formyldeoxyuridine: a new type of DNA damage induced by ionizing radiation and its mutagenicity to salmonella strain TA102. Kasai H, et al. **Mutat Res** 1990 Apr; 243(4):249–53

Investigation of the SOS response of Escherichia coli after gamma-irradiation by means of the SOS chromotest. Kozubek S, et al. **Mutat Res** 1990 May;230(1):1–7

Ultraviolet light-induced DNA damage in transcribed sequences: no change in repair with age. Kunisada T, et al. **Mutat Res** 1990 Mar;237(2):75–81

In vitro and in vivo reactions of nucleic acids with reducing sugars. Lee AT, et al. **Mutat Res** 1990 May;238(3):185–91 (24 ref.)

The kinetics of DNA damage by bleomycin in mammalian cells. López-Larraza D, et al. **Mutat Res** 1990 Sep; 232(1):57–61

Endogenous genotoxic agents and processes as a basis of spontaneous carcinogenesis. Lutz WK. **Mutat Res** 1990 May;238(3):287–95 (29 ref.)

Fate of DNA lesions that elicit sister-chromatid exchanges. Morales-Ramírez P, et al. **Mutat Res** 1990 Sep;232(1):77–88

In situ (6-4)photoproduct determination by laser cytometry and autoradiography. Mori T, et al. **Mutat Res** 1990 Jul; 236(1):99–105

Spontaneous DNA breaks in the rat brain during development and aging. Mullaart E, et al. **Mutat Res** 1990 Jan;237(1):9–15

DNA-DNA dot hybridization technique used as DNA determination method in the alkaline elution analysis of DNA damage. Müller T, et al. **Mutat Res** 1989 Dec; 215(2):205–11

Enhanced mutability at the tk locus in the radiosensitive double-strand break repair mutant xrs5. Mussa TA, et al. **Mutat Res** 1990 Aug;231(2):187–93

DNA damage in mouse and rat liver by caprolactam and benzoin, evaluated with three different methods. Parodi S, et al. **Mutat Res** 1989 Nov;224(3):379–84

Reactive oxygen-mediated damage to murine mammary tumor cells. Paul LA, et al. **Mutat Res** 1989 Dec; 215(2):223–34

Detection of free radical-induced DNA damage with bromodeoxyuridine/Hoechst flow cytometry: implications for Bloom's syndrome. Poot M, et al. **Mutat Res** 1990 May; 238(3):203–7

Age-related DNA modifications (I-compounds): modulation by physiological and pathological processes. Randerath K, et al. **Mutat Res** 1990 May;238(3):245–53 (23 ref.)

Interlaboratory comparison of the 32P-postlabelling assay for aromatic DNA adducts in white blood cells of iron foundry workers. Savela K, et al. **Mutat Res** 1989 Dec; 224(4):485–92

DNA-damaging agents show different kinetics in induction of heterothallic mating-type switching during growth after treatment in yeast. Schiestl RH. **Mutat Res** 1989 Dec; 227(4):269–74

Measurement of DNA breakage in specific germ-cell stages of male mice exposed to acrylamide, using an alkaline-elution procedure. Sega GA, et al. **Mutat Res** 1990 Sep;242(1):79–87

DNA damage and prophage induction and toxicity of nitrofurantoin in Escherichia coli and Vibrio cholerae cells. Sengupta S, et al. **Mutat Res** 1990 May;244(1):55–60

The induction and repair of DNA damage detected by the DNA precipitation assay in Chinese hamster ovary cells treated with acridine orange + visible light. Uggla AH, et al. **Mutat Res** 1990 Jul;236(1):119–27

DNA breaks and repair in the mouse leukemia L1210 cells exposed to three different types of interstrand DNA cross-linkers. Yajima N, et al. **Mutat Res** 1990 Jul; 236(1):43–50

Co-transfer of restriction endonucleases and plasmid DNA into mammalian cells by electroporation: effects on stable transformation. Yorifuji T, et al. **Mutat Res** 1990 Feb; 243(2):121–6

Effect of inhibition of DNA synthesis on recovery of X-irradiated L5178Y-S cells. I. Aphidicolin. **Kapiszewska M, et al. Neoplasma** 1989;36(5):557–64

Effect of inhibition of DNA synthesis on recovery of X-irradiated L5178Y-S cells, II. 9-beta-D-arabinofuranosyladenine. Kapiszewska M, et al. **Neoplasma** 1989;36(5):565–72

Increased levels of DNA breaks in cerebral cortex of Alzheimer's disease patients. Mullaart E, et al. **Neurobiol Aging** 1990 May-Jun;11(3):169–73

Analysis of the rearrangements associated with carcinogen-induced activation of the hamster thymidine kinase gene. Barr FG, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):129–35

Molecular models of neocarzinostatin damage of DNA: analysis of sequence dependence in 5'GAGCG:5'CGCTC. Galat A, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2093–9

Fine-mapping of DNA damage and repair in specific genomic segments. Govan HL 3d, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3823–30

Repair synthesis by human cell extracts in DNA damaged by cis- and trans-diamminedichloroplatinum(II). Hansson J, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8073–91

Regulated expression of the Saccharomyces cerevisiae DNA repair gene RAD7 in response to DNA damage and during sporulation. Jones JS, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3281–5

Use of shuttle vectors to study the molecular processing of defined carcinogen-induced DNA damage: mutagenicity of single O4-ethylthymine adducts in HeLa cells. Klein JC, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4131–7

Expression of the Saccharomyces cerevisiae DNA repair gene RAD6 that encodes a ubiquitin conjugating enzyme, increases in response to DNA damage and in meiosis but remains constant during the mitotic cell cycle. Madura K, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):771–8

Lesion selectivity in blockage of lambda exonuclease by DNA damage. Mattes WB. **Nucleic Acids Res** 1990 Jul 11;18(13):3723–30

The spectrum of mutations generated by passage of a hydrogen peroxide damaged shuttle vector plasmid through a mammalian host. Moraes EC, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8301–12

The basis for camptothecin enhancement of DNA breakage by eukaryotic topoisomerase I. Porter SE, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8521–32

Ligation-mediated PCR improves the sensitivity of methylation analysis by restriction enzymes and detection of specific DNA strand breaks. Steigerwald SD, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1435–9

DNA strand scission by antitumor antibiotics. Detection of C-4'-hydroxylated abasic sites in DNA. Sugiyama H, et al. **Nucleic Acids Symp Ser** 1989;(21):51–2

dNTP imbalance and DNA double strand breaks in mouse FM3A cells and the mechanism of cell death. Wataya Y, et al. **Nucleic Acids Symp Ser** 1989;(21):11–2

Colon cancer and dietary fiber: cellulose inhibits the DNA-damaging ability of bile acids. Cheah PY, et al. **Nutr Cancer** 1990;13(1-2):51–7

Elevation of c-myc protein by DNA strand breakage. Sullivan NF, et al. **Oncogene** 1989 Dec;4(12):1497–502

Detection of DNA strand breaks in HeLa cells in vitro and in mouse sarcoma 180 cells in vivo induced by an alkylating agent, carboquone, using in situ nick translation. Machara Y, et al. **Oncology** 1990;47(3):282–6

Comparison of the sensitivity of human and rat hepatocytes to the genotoxic effects of metronidazole. Martelli A, et al. **Pharmacol Toxicol** 1990 May;66(5):329–34

Species differences in kidney necrosis and DNA damage, distribution and glutathione-dependent metabolism of 1,2-dibromo-3-chloropropane (DBCP). Søderlund EJ, et al. **Pharmacol Toxicol** 1990 Apr;66(4):287–93

The UvrABC endonuclease of Escherichia coli. Grossman L, et al. **Photochem Photobiol** 1990 Jun;51(6):749–55 (40 ref.)

Repair of UV-damaged incoming plasmid DNA in Saccharomyces cerevisiae. Keszenman-Pereyra D. **Photochem Photobiol** 1990 Mar;51(3):331–42

Photochemistry of DNA using 193 nm excimer laser radiation. Kochevar IE, et al. **Photochem Photobiol** 1990 May;51(5):527–32

Photoreactivation of cyclobutane dimers and (6-4) photoproducts in the epidermis of the marsupial, Monodelphis domestica. Mitchell DL, et al. **Photochem Photobiol** 1990 Jun;51(6):653–8

Hydroxyl radical quenching agents protect against DNA breakage caused by both 365-nm UVA and by gamma radiation. Peak MJ, et al. **Photochem Photobiol** 1990 Jun; 51(6):649–52

Induction of DNA-protein crosslinks in melanotic cloudman S91 mouse melanoma cells and EMT6 mouse mammary carcinoma cells by monochromatic 254 and 405 nm light. Hill HZ, et al. **Pigment Cell Res** 1989 Sep-Oct;2(5):427–30

Induction of DNA double-strand breaks by 157Gd neutron capture. Martin RF, et al. **Pigment Cell Res** 1989 Jul-Aug; 2(4):330–2 (14 ref.)

ADPRT-mediated decrease of cellular NAD content and the detection of chemically induced DNA damage--development of a new short-term screening test for mutagens. Yu Y, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1990; 5(1):19–24

A human cellular sequence implicated in trk oncogene activation is DNA damage inducible. Ben-Ishai R, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6039–43

Cloning a eukaryotic DNA glycosylase repair gene by the suppression of a DNA repair defect in Escherichia coli. Chen J, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(20):7961–5

Cisplatin-resistant cells express increased levels of a factor that recognizes damaged DNA. Chu G, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3324–8

Oxidative damage to DNA during aging: 8-hydroxy-2'-deoxyguanosine in rat organ DNA and urine. Fraga CG, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4533–7

Evidence for a heat shock transcription factor-independent mechanism for heat shock induction of transcription in Saccharomyces cerevisiae. Kobayashi N, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6550–4

Urinary 8-hydroxy-2'-deoxyguanosine as a biological marker of in vivo oxidative DNA damage. Shigenaga MK, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9697–701

The genetic defect in Cockayne syndrome is associated with a defect in repair of UV-induced DNA damage in transcriptionally active DNA. Venema J, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4707–11

In situ detection of DNA damage in single cells or tissue sections by quantitative immunofluorescence microscopy. Baan RA, et al. **Prog Clin Biol Res** 1990;340A:101–12

DNA adduct formation in relation to tumorigenesis in mice chronically fed 2-acetylaminofluorene. Beland FA, et al. **Prog Clin Biol Res** 1990;331:121–9; discussion 147–8

DNA adduct formation in relation to tumorigenesis in mice continuously administered 4-aminobiphenyl. Beland FA, et al. **Prog Clin Biol Res** 1990;340A:81–90

Analysis of spontaneous and UV-induced mutagenesis on SV40:pyrimidine dimers versus pyrimidine (6-4) pyrimidones and viral infection versus DNA transfection. Bourre F, et al. **Prog Clin Biol Res** 1990;340A:327–35

Organ-specific genotoxic effects of chemicals: the use of alkaline elution to detect DNA damage in various organs of in vivo-exposed animals. Brunborg G, et al. **Prog Clin Biol Res** 1990;340D:43–52

How cells recognize damaged DNA: clues from xeroderma pigmentosum and yeast. Chu G, et al. **Prog Clin Biol Res** 1990;340A:275–82

Oxidative DNA damage: repair and inducible cellular responses. Demple B. **Prog Clin Biol Res** 1990;340A:155–67

Chemistry of DNA alkylation and aralkylation. Dipple A, et al. **Prog Clin Biol Res** 1990;340A:71–80 (16 ref.)

DNA-damage-inducible genes in mammalian cells. Fornace AJ Jr, et al. **Prog Clin Biol Res** 1990;340A:315–25

The role of carcinogen DNA adduct structure in the induction of mutations. Loechler EL, et al. **Prog Clin Biol Res** 1990;340A:51–60 (29 ref.)

DNA homology and chromosome stability: a sensitive yeast genetic system for identifying double-stranded DNA damage. Resnick MA, et al. **Prog Clin Biol Res** 1990; 340B:363–9

Inducible repair of cytogenetic damage to human lymphocytes: adaptation to low-level exposures to DNA-damaging agents. Wolff S, et al. **Prog Clin Biol Res** 1990;340B:397–405 (30 ref.)

Relationship between DNA fragmentation and apoptosis in the programmed cell death in the rat prostate following castration. English HF, et al. **Prostate** 1989;15(3):233–50

Detection of DNA damage in spermiogenic stages of mice treated with enriched uranyl fluoride by alkaline elution. Hu QY, et al. **Radiat Environ Biophys** 1990;29(3):161–7

Topological DNA target size model. Suciu D. **Radiat Environ Biophys** 1990;29(3):203–11

Radiation-induced cytotoxicity, DNA damage and DNA repair: implications for cell survival theory. Swarts SG, et al. **Radiat Environ Biophys** 1990;29(2):93–102

Changes in nucleoid viscosity following X-irradiation of rat thymic and splenic cells in vitro. Tempel K. **Radiat Environ Biophys** 1990;29(1):19–30

Measurement of radiation-induced DNA double-strand breaks by pulsed-field gel electrophoresis. Ager DD, et al. **Radiat Res** 1990 May;122(2):181–7

DNA damage and biological expression of adenovirus: a comparison of liquid versus frozen conditions of exposure to gamma rays. Bennett CB, et al. **Radiat Res** 1989 Oct; 120(1):102–12

Hydrogen peroxide-induced base damage in deoxyribonucleic acid. Blakely WF, et al. **Radiat Res** 1990 Mar;121(3):338–43

The effect of dose rate on X-radiation-induced mutant frequency and the nature of DNA lesions in mouse lymphoma L5178Y cells. Evans HH, et al. **Radiat Res** 1990 Jun;122(3):316–25

On the measurement of DNA double-strand breaks by neutral elution [see comments] Hutchinson F. **Radiat Res** 1989 Oct;120(1):182–6 (36 ref.) Comment in: Radiat Res 1990 Apr;122(1):104–5.

The effect of single versus double-strand substitution on halogenated pyrimidine-induced radiosensitization and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Radiat Res** 1990 Aug;123(2):192–8

Protection by WR-3689 against gamma-ray-induced intestinal damage: comparative effect on clonogenic cell survival, mouse survival, and DNA damage. Murray D, et al. **Radiat Res** 1989 Nov;120(2):339–51

Multiple components of split-dose repair in plateau-phase mammalian cells: a new challenge for phenomenological modelers. Nelson JM, et al. **Radiat Res** 1990 Feb; 121(2):154–60

Heterogeneity in radiation-induced DNA damage and repair in tumor and normal cells measured using the "comet" assay. Olive PL, et al. **Radiat Res** 1990 Apr;122(1):86–94

On the measurement of DNA double-strand breaks by neutral elution [letter; comment] Peak JG, et al. **Radiat Res** 1990 Apr;122(1):104–5 Comment on: Radiat Res 1989 Oct;120(1):182–6.

X-ray-related potentially lethal damage expressed by chromosome condensation and the influence of caffeine. Sasaki H, et al. **Radiat Res** 1989 Oct;120(1):72–82

Hyperthermia, polyamine depletion, and inhibition of X-ray-induced DNA strand break repair. Snyder RD, et al. **Radiat Res** 1989 Oct;120(1):121–8

Asymmetric field inversion gel electrophoresis: a new method for detecting DNA double-strand breaks in mammalian cells. Stamato TD, et al. **Radiat Res** 1990 Feb; 121(2):196–205

Novobiocin inhibits the repair of potentially lethal damage but not the repair of sublethal damage. Utsumi H, et al. **Radiat Res** 1990 Jul;123(1):55–60

Damage to DNA strand and the effects of anticancer drugs. Kanamaru R, et al. **Sci Rep Res Inst Tohoku Univ [Med]** 1989 Dec; 36(1-4):29–36

Molecular basis of hexavalent chromium carcinogenicity: effect on gene expression. Wetterhahn KE, et al. **Sci Total Environ** 1989 Oct 1;86(1-2):113–29

Chromosomal aberrations as a contributing factor for tumor promotion in the mouse skin. Kaina B. **Teratogenesis Carcinog Mutagen** 1989;9(6):331–48 (88 ref.)

Relationship of DNA damage and embryotoxicity induced by 4-hydroperoxydechlorocyclophosphamide in postimplantation rat embryos. Little SA, et al. **Teratology** 1990 Feb;41(2):223–31

DNA damage induced in rats by oral administration of chlordiazepoxide plus sodium nitrite or of N-nitrosochlordiazepoxide. Robbiano L, et al. **Toxicol Appl Pharmacol** 1990 Jan;102(1):186–90

The further development of a mammalian DNA alkaline unwinding bioassay with potential application to hazard identification for contaminants from environmental samples. Daniel FB, et al. **Toxicol Ind Health** 1989 Oct; 5(5):647–65

DNA damage induced by N-nitrosodibenzylamine and N-nitroso-alpha-acetoxybenzyl-benzylamine in mammalian cell systems and in vivo. Appel KE, et al. **Toxicol Lett** 1990 Aug;52(3):269–77

A hypothesis regarding the protective role of metallothioneins against the toxicity of DNA interactive anticancer drugs. Basu A, et al. **Toxicol Lett** 1990 Feb; 50(2-3):123–35; discussion 121–2 (53 ref.)

Lack of covalent binding to DNA of di-n-octyltin dichloride (DOTC) in vivo and in vitro. Sagelsdorff P, et al. **Toxicol Lett** 1990 Feb;50(2-3):179–88

Species differences in testicular necrosis and DNA damage, distribution and metabolism of 1,2-dibromo-3-chloropropane (DBCP). Låg M, et al. **Toxicology** 1989 Oct 2;58(2):133–44

Dichloroacetic acid and trichloroacetic acid-induced DNA strand breaks are independent of peroxisome proliferation. Nelson MA, et al. **Toxicology** 1989 Oct 16;58(3):239–48

Factors influencing the induction of DNA single strand breaks in rats by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Wahba ZZ, et al. **Toxicology** 1989 Sep; 58(1):57-69

Glucocorticoid-induced DNA fragmentation in acute lymphoblastic leukemia cells. Distelhorst CW, et al. **Trans Assoc Am Physicians** 1988;101:114-24

Single strand DNA breaks in human leukocytes induced by ultrasound in vitro. Miller DL, et al. **Ultrasound Med Biol** 1989;15(8):765-71

Role of thiols in radioprotection: radiation chemical aspects. Tamba M. Z **Naturforsch [C]** 1989 Sep-Oct;44(9-10):857-62

[Therapy with the rare gas radon-222] Briem H. **Biomed Tech (Berlin)** 1989;34 Suppl:240-1 (Ger)

[Chromosome mutagenicity of a 193 nm Excimer laser] Gebhart E, et al. **Fortschr Ophthalmol** 1990;87(3):229-33 (Eng. Abstr.) (Ger)

[Correlation of the toxic effects of the environment and the genetic information of the individual] Roser M, et al. **Internist (Berl)** 1989 Sep;30(9):587-95 (50 ref.) (Ger)

[Cellular effects of the ultraviolet components of sunlight] Zölzer F, et al. **Naturwissenschaften** 1989 Nov; 76(11):489-95 (33 ref.) (Eng. Abstr.) (Ger)

[Therapy of aging skin] Roeser BE, et al. **Z Hautkr** 1989 Nov 15;64(11):1019-20, 1025-6 (13 ref.) (Eng. Abstr.) (Ger)

[Measurement of DNA damage in forestomach squamous epithelium by alkaline elution assay] Morimoto K, et al. **Eisei Shikenjo Hokoku** 1989;(107):25-8 (Eng. Abstr.) (Jpn)

[DNA damage and anticancer effect] Kanamaru R, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):517-23 (14 ref.) (Eng. Abstr.) (Jpn)

[Detection of cellular DNA strand breaks induced by antitumor drug and heat using in situ nick translation] Machara Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1576-8 (Eng. Abstr.) (Jpn)

[DNA damage and hepatic regeneration after partial hepatectomy: preliminary report] Yoshida S, et al. **Nippon Geka Gakkai Zasshi** 1989 Oct;90(10):1814 (Jpn)

[In situ nick translation for detection of DNA damages in glioma cells] Taki T, et al. **No To Shinkei** 1989 Nov; 41(11):1065-70 (Eng. Abstr.) (Jpn)

[Formation of free radicals and DNA breaks after pulsed laser irradiation of DNA complexes with intercalating dyes] Zhizhina GP, et al. **Biofizika** 1990 Jan-Feb; 35(1):47-52 (Eng. Abstr.) (Rus)

[Reactive oligonucleotide derivatives containing methylphosphonate groups. V. Increased effectiveness of complementary addressed modification of target DNA by alkylating derivatives of methylphosphonate analogs of octathymidylate containing N-(2-hydroxyethyl)phenazinium residues] Amirkhanov NV, et al. **Bioorg Khim** 1990 Mar;16(3):370-8 (Eng. Abstr.) (Rus)

[Ribosome content, spontaneous damage and repairing DNA synthesis in patients with chronic B-lymphocytic leukemia depending on stage and form of disease] Morozova EO, et al. **Eksp Onkol** 1990;12(3):28-31 (Eng. Abstr.) (Rus)

[Local despiralization of DNA in lymphocytes of patients with chronic lympholeukemia] Zhizhina GP, et al. **Eksp Onkol** 1989;11(5):54-6 (Eng. Abstr.) (Rus)

[Decrease in repair processes in lymphocytes of workers exposed to heavy metals] Chopikashvili LV, et al. **Genetika** 1989 Dec;25(12):2247-50 (Eng. Abstr.) (Rus)

[Mechanisms of impairment of DNA repair in human cells. Interferons stimulated DNA repair in xeroderma pigmentosum cells] Sinel'shchikova TA, et al. **Genetika** 1989 Sep;25(9):1658-63 (Eng. Abstr.) (Rus)

[Mechanisms of impairment of DNA repair in human cells. Effects of native and recombinant interferons in UV-irradiated human fibroblasts] Sinel'shchikova TA, et al. **Genetika** 1989 Nov;25(11):2044-9 (Eng. Abstr.) (Rus)

[Mechanisms of disrupting DNA repair in human cells. IV. Interferon protects DNA of noninfected and chronically infected human cells from damage caused by cadmium chloride] Vasil'eva IM, et al. **Genetika** 1989 Oct; 25(10):1872-7 (Eng. Abstr.) (Rus)

[Interference of inducible repair processes in Escherichia coli] Vasil'eva SV, et al. **Genetika** 1989 Dec;25(12):2138-50 (Eng. Abstr.) (Rus)

[Ability of the lymphocytes in the peripheral blood of oncologic patients to repair DNA] Nikiforova NA, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):25-7 (Eng. Abstr.) (Rus)

[Damage to the structure of DNA and to the metabolism of nucleic acids in the thymus in relation to the dose of tritium oxide] Shorokhova VB, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):21-3 (Eng. Abstr.) (Rus)

[An evaluation of the DNA-damaging action of the metal carcinogen beryllium using a bacterial repair test] Dylevol MV. **Mikrobiol Zh** 1990 Jan-Feb;52(1):34-8 (Eng. Abstr.) (Rus)

[Repair of a double-stranded gap in plasmid DNA in radiosensitive mutants of Saccharomyces cerevisiae: effectiveness and precision] Glazer VM, et al. **Mol Gen Mikrobiol Virusol** 1989 Sep;(9):14-20 (Eng. Abstr.) (Rus)

[The spatio-temporal distribution of single-stranded breaks in nuclear DNA in sections of clawed toad embryos during gastrulation and neurulation] Zaralskiĭ AG, et al. **Ontogenez** 1989 Sep-Oct;20(5):471-7 (Eng. Abstr.) (Rus)

[The role of repair processes in synergism] Diagilev SA, et al. **Radiobiologiia** 1989 Sep-Oct;29(5):605-10 (Eng. Abstr.) (Rus)

[Modeling, using nucleases, of the effect of radiation on Chinese hamster fibroblasts. On the role of single-stranded DNA breaks, induced by DNAase I, in the initiation of chromosome aberrations] Ganassi EE, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):742-5 (Eng. Abstr.) (Rus)

[The role of the repair of double-stranded DNA breaks in the radioresistance of yeast cells] Glazunov AV. **Radiobiologiia** 1990 Jan-Feb;30(1):3-15 (47 ref.) (Eng. Abstr.) (Rus)

[A study of DNA repair in the thymocytes of irradiated rats using a spectrofluorometric method] Rusinova GG. **Radiobiologiia** 1990 May-Jun;30(3):405-7 (Eng. Abstr.) (Rus)

[The role of DNA repair processes in the repair of cytogenetic disorders. The participation of slow to repair DNA damage in the repair of cytogenetic disorders] Zaichkina SI, et al. **Radiobiologiia** 1989 Nov-Dec; 29(6):833-5 (Eng. Abstr.) (Rus)

[Molecular mechanisms of radiation-induced cell death] Khanson KP, et al. **Vestn Akad Med Nauk SSSR** 1990; (2):34-9 (Eng. Abstr.) (Rus)

DNA-DEPENDENT DNA POLYMERASE I see **DNA POLYMERASE I**

DNA-DEPENDENT DNA POLYMERASE II see **DNA POLYMERASE II**

DNA-DEPENDENT DNA POLYMERASES see **DNA POLYMERASES**

DNA-DEPENDENT RNA POLYMERASE I see **RNA POLYMERASE I**

DNA-DEPENDENT RNA POLYMERASE II see **RNA POLYMERASE II**

DNA-DEPENDENT RNA POLYMERASES see **RNA POLYMERASES**

DNA, DOUBLE-STRANDED see **DNA**

DNA, FUNGAL

Effect of transcription of yeast chromatin on DNA topology in vivo. Pederson DS, et al. **EMBO J** 1990 Jun;9(6):1873-81

The subtelomeric Y' repeat family in Saccharomyces cerevisiae: an experimental system for repeated sequence evolution. Louis EJ, et al. **Genetics** 1990 Mar;124(3):533-45

Mitotic recombination among subtelomeric Y' repeats in Saccharomyces cerevisiae. Louis EJ, et al. **Genetics** 1990 Mar;124(3):547-59

Use of yeast nuclear DNA sequences to define the mitochondrial RNA polymerase promoter in vitro. Marczynski GT, et al. **Mol Cell Biol** 1989 Aug; 9(8):3193-202

Random-breakage mapping, a rapid method for physically locating an internal sequence with respect to the ends of a DNA molecule. Game JC, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4453-61

Detection of latent sequence periodicities. Pizzi E, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3745-52

ANALYSIS

Chemotaxonomy of yeasts. Olsen I. **Acta Odontol Scand** 1990 Feb;48(1):19-25 (58 ref.)

Molecular probes for the detection of Kluyveromyces marxianus chromosomal DNA in electrophoretic karyotypes of intergeneric protoplast fusion products. Witte V, et al. **Arch Microbiol** 1989;152(5):441-6

Cloning and DNA sequence analysis of a polygalacturonase cDNA from Aspergillus niger RH5344. Ruttkowski E, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):104-6

Molecular analysis of the structural gene for yeast transaldolase. Schaaff I, et al. **Eur J Biochem** 1990 Mar 30;188(3):597-603

Characterization of telomere DNA from Neurospora crassa. Schechtman MG. **Gene** 1990 Apr 16;88(2):159-65

A method of sequencing without subcloning and its application to the identification of a novel ORF with a sequence suggestive of a transcriptional regulator in the water mold Achlya ambisexualis. Schowalter DB, et al. **Genomics** 1990 Jan;6(1):23-32

In vivo rearrangement of foreign DNA by Fusarium oxysporum produces linear self-replicating plasmids. Powell WA, et al. **J Bacteriol** 1990 Jun;172(6):3163-71

DNA sequences from Saccharomycopsis fibuligera capable of autonomous replication in Saccharomyces cerevisiae. Jurský F, et al. **J Basic Microbiol** 1990;30(4):301-4

The identification of pathogenic yeast strains by electrophoretic analysis of their chromosomes. Monod M, et al. **J Med Microbiol** 1990 Jun;32(2):123-9

The identification of Candida albicans strains by restriction fragment length polymorphism analysis of DNA. Smith RA, et al. **J Med Vet Mycol** 1989;27(6):431-4

Detection of Pneumocystis carinii with DNA amplification. Wakefield AE, et al. **Lancet** 1990 Aug 25;336(8713):451-3

Yeast telomere length varies in response to changes in the amount of polyC1-3A in the cell. Constable A, et al. **Mol Gen Genet** 1990 Apr;221(2):280-2

Chromatin digestion with restriction endonucleases reveals 150-160 bp of protected DNA in the centromere of chromosome XIV in Saccharomyces cerevisiae. Funk M, et al. **Mol Gen Genet** 1989 Oct;219(1-2):153-60

DNA homology between Candida albicans strains: evidence to justify the synonymous status of C. stellatoidea. Kamiyama A, et al. **Mycopathologia** 1989 Jul;107(1):3-7

Mitochondrial DNA analysis of Exophiala jeanselmei and Exophiala dermatitidis. Kawasaki M, et al. **Mycopathologia** 1990 May;110(2):107-12

Application of DNA typing methods to Candida albicans epidemiology and correlations with phenotype. Stevens DA, et al. **Rev Infect Dis** 1990 Mar-Apr;12(2):258-66

Molecular probes for the detection of Pneumocystis carinii. Wakefield AE, et al. **Trans R Soc Trop Med Hyg** 1990;84 Suppl 1:17-8

DNA relatedness among species of the genus Zygosaccharomyces. Kurtzman CP. **Yeast** 1990 May-Jun; 6(3):213-9

Dekkera, Brettanomyces and Eeniella: electrophoretic comparison of enzymes and DNA-DNA homology. Smith MT, et al. **Yeast** 1990 Jul-Aug;6(4):299-310

The yeast genus Trichosporon spec. LS3;molecular characterization of genomic complexity. Gienow U, et al. **Zentralbl Mikrobiol** 1990;145(1):3-12

[Determination of guanine and cytosine contents of Trichophyton rubrum nuclear DNA with the thermal denaturation technique] Teng CY, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):313-6 (Eng. Abstr.) (Chi)

BIOSYNTHESIS

cDNA cloning and expression of a Talaromyces emersonii beta-glucosidase determinant in Escherichia coli. Morrison J, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):27-32

Macromolecule synthesis in temperature-sensitive mutants of methanol-utilizing Hansenula polymorpha. Yang SS, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 May;22(2):116-31

Replication control and cellular life span. Jazwinski SM, et al. **Exp Gerontol** 1989;24(5-6):423-36

cDNA cloning and characterization of Geotrichum candidum lipase II. Shimada Y, et al. **J Biochem (Tokyo)** 1990 May;107(5):703-7

The purine-cytosine permease gene of Saccharomyces cerevisiae: primary structure and deduced protein sequence of the FCY2 gene product. Weber E, et al. **Mol Microbiol** 1990 Apr;4(4):585-96

DRUG EFFECTS

Degradation of DNA and structure-activity relationship between bleomycins A2 and B2 in the absence of DNA repair. Moore CW. **Biochemistry** 1990 Feb 6;29(5):1342-7

Genetic effects and repair of DNA photo-adducts induced by 8-methoxypsoralen and homopsoralen (pyranocoumarin) in diploid yeast. Averbeck D, et al. **J Photochem Photobiol B** 1990 Apr 15;5(2):179-95

Repair of alkylation damage in Saccharomyces cerevisiae. Goth-Goldstein R, et al. **Mol Gen Genet** 1990 May; 221(3):353-7

Action spectra and chromophores for lethal photosensitization of Candida albicans by DNA monoadducts formed by 8-methoxypsoralen and monofunctional furocoumarins. Baydoun SA, et al. **Photochem Photobiol** 1989 Dec;50(6):753-61

GENETICS

Application of a ribosomal DNA integration vector in the construction of a brewer's yeast having alpha-acetolactate decarboxylase activity. Fujii T, et al. **Appl Environ Microbiol** 1990 Apr;56(4):997-1003

Use of nuclear DNA restriction fragment length polymorphisms to analyze the diversity of the Aspergillus flavus group: A. flavus, A. parasiticus, and A. nomius. Moody SF, et al. **Appl Environ Microbiol** 1990 Aug; 56(8):2453-61

Restriction enzyme analysis of mitochondrial DNA of the Aspergillus flavus group: A. flavus, A. parasiticus, and A. nomius. Moody SF, et al. **Appl Environ Microbiol** 1990 Aug;56(8):2441-52

Nucleotide and deduced amino acid sequence of the alpha subunit of yeast pyruvate dehydrogenase. Behal RH, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):941-6

A pathway for generation and processing of double-strand breaks during meiotic recombination in S. cerevisiae. Cao L, et al. **Cell** 1990 Jun 15;61(6):1089-101

Site-specific DNA repair at the nucleosome level in a yeast minichromosome. Smerdon MJ, et al. **Cell** 1990 May 18; 61(4):675-84

Large amplification of a 35-kb DNA fragment carrying two penicillin biosynthetic genes in high penicillin producing strains of Penicillium chrysogenum. Barredo JL, et al. **Curr Genet** 1989 Dec;16(5-6):453-9

DNA sequence analysis of the 24.5 kilobase pair cytochrome oxidase subunit I mitochondrial gene from Podospora anserina: a gene with sixteen introns. Cummings DJ, et al. **Curr Genet** 1989 Dec;16(5-6):381-406

Molecular cloning of chromosome I DNA from Saccharomyces cerevisiae: localization of a repeated sequence containing an acid phosphatase gene near a telomere of chromosome I and chromosome VIII. de Steensma HY, et al. **Curr Genet** 1989 Sep;16(3):131-7

A hot-spot for transposition of various Ty elements on chromosome V in Saccharomyces cerevisiae. Lochmüller H, et al. **Curr Genet** 1989 Oct;16(4):247-52

A yeast telomere binding activity binds to two related telomere sequence motifs and is indistinguishable from RAP1. Longtine MS, et al. **Curr Genet** 1989 Oct; 16(4):225-39

Characterization of the termini of linear plasmids from Nectria haematococca and their use in construction of an autonomously replicating transformation vector. Samac DA, et al. **Curr Genet** 1989 Sep;16(3):187-94

The developmental fate of fission yeast cells is determined by the pattern of inheritance of parental and grandparental DNA strands. Klar AJ. **EMBO J** 1990 May;9(5):1407-15

Physical relationship between a gene and its origin of replication in Physarum polycephalum. Benard M, et al. **Exp Cell Res** 1990 Feb;186(2):299-305

Cloning of a DNA sequence encoding a major fragment of the 47 kilodalton stress protein homologue of Candida albicans. Matthews R, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):25-30

Cloning of chromosome I DNA from Saccharomyces cerevisiae: mutational analysis of the FUN2 transcribed region. Crowley JC, et al. **Gene** 1989 Nov 30;83(2):381-5

High-copy-number integration into the ribosomal DNA of Saccharomyces cerevisiae: a new vector for high-level expression. Lopes TS, et al. **Gene** 1989 Jul 15;79(2):199-206

A lignin peroxidase-encoding cDNA from the white-rot fungus Phlebia radiata: characterization and expression in Trichoderma reesei. Saloheimo M, et al. **Gene** 1989 Dec 28;85(2):343-51

Expression of a foreign KmR gene in linear killer DNA plasmids in yeast. Tanguy-Rougeau C, et al. **Gene** 1990 Jul 2;91(1):43-50

A wide variety of DNA sequences can functionally replace a yeast TATA element for transcriptional activation. Singer VL, et al. **Genes Dev** 1990 Apr;4(4):636-45

Pathways of transformation in Ustilago maydis determined by DNA conformation. Fotheringham S, et al. **Genetics** 1990 Apr;124(4):833-43

Synapsis-mediated fusion of free DNA ends forms inverted dimer plasmids in yeast. Kunes S, et al. **Genetics** 1990 Jan; 124(1):67-80

Ty1 transposition in Saccharomyces cerevisiae is nonrandom. Natsoulis G, et al. **Genetics** 1989 Oct;123(2):269-79

The role of a conserved dodecamer sequence in yeast mitochondrial gene expression. Butow RA, et al. **Genome** 1989;31(2):757-60

Phenotypic expression of primary lesions of genetic material in Saccharomyces yeasts. Inge-Vechtomov SG, et al. **Genome** 1989;31(2):497-502

Recombination in yeast and the recombinant DNA technology. Petes TD, et al. **Genome** 1989;31(2):536-40 (39 ref.)

Isolation, characterization, and inactivation of the APA1 gene encoding yeast diadenosine 5',5'''-P1,P4-tetraphosphate phosphorylase. Plateau P, et al. **J Bacteriol** 1989 Dec;171(12):6437-45

Rapid genetic identification and mapping of enzymatically amplified ribosomal DNA from several Cryptococcus species. Vilgalys R, et al. **J Bacteriol** 1990 Aug; 172(8):4238-46

Isopentenyl diphosphate:dimethylallyl diphosphate isomerase. An improved purification of the enzyme and isolation of the gene from Saccharomyces cerevisiae. Anderson MS, et al. **J Biol Chem** 1989 Nov 15; 264(32):19169-75

N-terminal deletions of a mitochondrial signal sequence in yeast. Targeting information of delta-aminolevulinate synthase is encoded in non-overlapping regions. Haldi M, et al. **J Biol Chem** 1989 Oct 15;264(29):17107-12

Isolation and sequencing of NOP1. A yeast gene encoding a nucleolar protein homologous to a human autoimmune antigen. Henríquez R, et al. **J Biol Chem** 1990 Feb 5; 265(4):2209-15

Identification of Neurospora mitochondrial promoters and analysis of synthesis of the mitochondrial small rRNA in wild-type and the promoter mutant [poky]. Kubelik AR, et al. **J Biol Chem** 1990 Mar 15;265(8):4515-26

cDNA-derived sequence of UMP-CMP kinase from Dictyostelium discoideum and expression of the enzyme in Escherichia coli. Wiesmüller L, et al. **J Biol Chem** 1990 Apr 15;265(11):6339-45

DNA sequence analysis of the mitochondrial ND4L-ND5 gene complex from Podospora anserina. Duplication of the ND4L gene within its intron. Cummings DJ, et al. **J Mol Biol** 1990 Mar 20;212(2):269-86

Deoxyribonucleic acid plasmids in yeasts. Volkert FC, et al. **Microbiol Rev** 1989 Sep;53(3):299-317 (139 ref.)

ARS binding factor I of the yeast Saccharomyces cerevisiae binds to sequences in telomeric and nontelomeric autonomously replicating sequences. Biswas SB, et al. **Mol Cell Biol** 1990 Feb;10(2):810-5

Functional analysis of a centromere from fission yeast: a role for centromere-specific repeated DNA sequences. Clarke L, et al. **Mol Cell Biol** 1990 May;10(5):1863-72

Identification of the DNA damage-responsive element of RNR2 and evidence that four distinct cellular factors bind it. Elledge SJ, et al. **Mol Cell Biol** 1989 Dec;9(12):5373-86

CBP2 protein promotes in vitro excision of a yeast mitochondrial group I intron. Gampel A, et al. **Mol Cell Biol** 1989 Dec;9(12):5424-33

Interaction of the H4 autonomously replicating sequence core consensus sequence and its 3'-flanking domain. Holmes SG, et al. **Mol Cell Biol** 1989 Dec;9(12):5464-72

Heteroduplex DNA correction in Saccharomyces cerevisiae is mismatch specific and requires functional PMS genes. Kramer B, et al. **Mol Cell Biol** 1989 Oct;9(10):4432-40

Isolation and nucleotide sequence of an autonomously replicating sequence (ARS) element functional in Candida albicans and Saccharomyces cerevisiae. Cannon RD, et al. **Mol Gen Genet** 1990 Apr;221(2):210-8

Transformation by integration in Podospora anserina. III. Replacement of a chromosome segment by a two-step process. Coppin-Raynal E, et al. **Mol Gen Genet** 1989 Oct; 219(1-2):270-6

Linear plasmid DNAs of the plant pathogenic fungus Rhizoctonia solani with unique terminal structures. Miyashita S, et al. **Mol Gen Genet** 1990 Jan;220(2):165-71

A full length cDNA clone for the alkaline protease from Aspergillus oryzae: structural analysis and expression in Saccharomyces cerevisiae. Tatsumi H, et al. **Mol Gen Genet** 1989 Oct;219(1-2):33-8

Development of a genetic transformation system for Histoplasma capsulatum: complementation of uracil auxotrophy. Worsham PL, et al. **Mol Gen Genet** 1990 May; 221(3):358-62

Development of a chromosomal DNA probe for the laboratory diagnosis of aspergillosis. Gabal MA. **Mycopathologia** 1989 May;106(2):121-9

Nucleosome positioning can affect the function of a cis-acting DNA element in vivo. Simpson RT. **Nature** 1990 Jan 25;343(6256):387-9

repa, a repetitive and dispersed DNA sequence of the filamentous fungus Podospora anserina. Deleu C, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4901-3

Nucleotide sequence of a full-length cDNA coding for cyclophilin (peptidyl-prolyl cis-trans isomerase) of Saccharomyces cerevisiae. Dietmeier K, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):373

Detection of Saccharomyces cerevisiae chromosome size markers directly on Southern blots of pulsed-field gels with a single DNA hybridization probe. Higgins MJ, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10136

Complete nucleotide sequence of cDNA for the cytotoxin alpha sarcin. Oka T, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1897

Molecular complementation of a genetic marker in Dictyostelium using a genomic DNA library. Dynes JL, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7966-70

Host species-specific conservation of a family of repeated DNA sequences in the genome of a fungal plant pathogen. Hamer JE, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(24):9981-5

Use of yeast artificial chromosome clones for mapping and walking within human chromosome segment 18q21.3. Silverman GA, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(19):7485-9

Genomic subtraction for cloning DNA corresponding to deletion mutations. Straus D, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1189-93

Thermal energy suppresses mutational defects in DNA unwinding at a yeast replication origin. Umek RM, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2486-90

DNA homology and chromosome stability: a sensitive yeast genetic system for identifying double-stranded DNA damage. Resnick MA, et al. **Prog Clin Biol Res** 1990; 340B:363-9

Multipurpose role for RAP1, a yeast DNA looping protein. Gilson E. **Res Microbiol** 1989 Sep;140(7):433-8

Site-specific cleavage of a yeast chromosome by oligonucleotide-directed triple-helix formation. Strobel SA, et al. **Science** 1990 Jul 6;249(4964):73-5

Cloning and sequencing of the malate synthase gene from Hansenula polymorpha. Bruinenberg PG, et al. **Yeast** 1990 May-Jun;6(3):245-54

Analysis of the THR4 region on chromosome III of the yeast Saccharomyces cerevisiae. Mannhaupt G, et al. **Yeast** 1990 Jul-Aug;6(4):353-61

Bacterial plasmid pBR322 sequences serve as upstream activating sequences in Saccharomyces cerevisiae. Sidhu RS, et al. **Yeast** 1990 May-Jun;6(3):221-9

Cloning and sequencing of the ornithine carbamoyltransferase gene from Pachysolen tannophilus. Skrzypek M, et al. **Yeast** 1990 Mar-Apr;6(2):141-8

The plasmid-encoded killer system of Kluyveromyces lactis: a review. Stark MJ, et al. **Yeast** 1990 Jan-Feb;6(1):1-29 (89 ref.)

Regulatory DNA-binding proteins in yeast: an overview. Verdier JM. **Yeast** 1990 Jul-Aug;6(4):271-97 (295 ref.)

Creation of ARS activity in yeast through iteration of non-functional sequences. Zweifel SG, et al. **Yeast** 1990 May-Jun;6(3):179-86

[Interaction of nuclear and mitochondrial genomes in yeasts] Mironova LN. **Genetika** 1989 Jul;25(7):1141-9 (64 ref.) (Eng. Abstr.) **(Rus)**

[Features of integration of recombinant cosmids, containing Aspergillus terreus DNA, in the Saccharomyces cerevisiae genome] Shubochkina EA, et al. **Genetika** 1989 Aug; 25(8):1373-83 (Eng. Abstr.) **(Rus)**

[Mutational analysis of the starch utilization system in the yeast Saccharomyces cerevisiae] Kuchin SV, et al. **Mol Gen Mikrobiol Virusol** 1990 May;(5):27-9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Improved methods for the preparation of high molecular weight DNA from large and small scale cultures of filamentous fungi. Bainbridge BW, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1-3):113-7

Isolation of a cDNA encoding Aspergillus oryzae Taka-amylase A: evidence for multiple related genes. Tsukagoshi N, et al. **Gene** 1989 Dec 14;84(2):319-27

A simple and efficient method for isolating genomic DNA from endomycorrhizal spores. Cummings B, et al. **Gene Anal Tech** 1989 Sep-Oct;6(5):89-92

Extraction and purification of DNA from phytopathogenic soil-inhabiting Fusarium species. Madhosingh C. **J Environ Sci Health [B]** 1989 Aug;24(4):413-20

A method for the preparative isolation and concentration of intact yeast artificial chromosomes. Couto LB, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8010

Preparation of Neurospora crassa chromosomes from a cell wall-less strain. Lai E. **Nucleic Acids Res** 1989 Dec 25; 17(24):10510

A rapid and simple method for the preparation of yeast mitochondrial DNA. Querol A, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1657

Isolation of mitochondrial DNA using pulsed field gel electrophoresis. Skelly PJ, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7537

Molecular detrapping and band narrowing with high frequency modulation of pulsed field electrophoresis. Turmel C, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):569-75

Isolation and sequence analysis of a K. lactis chromosomal DNA element able to autonomously replicate in S. cerevisiae and K. lactis. Fabiani L, et al. **Yeast** 1990 Jan-Feb;6(1):69-76

Isolation, DNA sequence and regulation of a new cell division cycle gene from the yeast Saccharomyces cerevisiae. Hasegawa H, et al. **Yeast** 1989 Nov-Dec; 5(6):509-24

METABOLISM

Growth phase dependency of chromatin cleavage and degradation by bleomycin. Moore CW, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1592-9

Transformation of Saccharomyces cerevisiae by electroporation. Delorme E. **Appl Environ Microbiol** 1989 Sep;55(9):2242-6

DNA methylation pattern during the encystment of Physarum flavicomum. Zhu CM, et al. **Biochem Cell Biol** 1990 Jun;68(6):944-8

Cleavage of cellular and extracellular Saccharomyces cerevisiae DNA by bleomycin and phleomycin. Moore CW. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6935-40

The UV excision-repair system of Saccharomyces cerevisiae is involved in the removal of methylcytosines formed in vivo by a cloned prokaryotic DNA methyltransferase. Fehér Z, et al. **Curr Genet** 1989 Dec;16(5-6):461-4

Formation and stability of interstrand cross-links induced by cis- and trans-diamminedichloroplatinum (II) in the DNA of Saccharomyces cerevisiae strains differing in repair capacity. Wilborn F, et al. **Curr Genet** 1989 Dec; 16(5-6):331-8

Purification and characterization of a nuclear factor which binds specifically to the upstream activation sequence of Saccharomyces cerevisiae enolase 1 gene. Machida M, et al. **Eur J Biochem** 1989 Sep 15;184(2):305-11

Mismatch repair-induced meiotic recombination requires the pms1 gene product. Borts RH, et al. **Genetics** 1990 Mar; 124(3):573-84

ABF1 binding sites in yeast RNA polymerase genes. Della Seta F, et al. **J Biol Chem** 1990 Sep 5;265(25):15168-75

Purification of a protein binding to the CDEI subregion of Saccharomyces cerevisiae centromere DNA. Jiang WD, et al. **Mol Cell Biol** 1989 Dec;9(12):5585-93

Unstable mitochondrial DNA in natural-death nuclear mutants of Neurospora crassa. Seidel-Rogol BL, et al. **Mol Cell Biol** 1989 Oct;9(10):4259-64

Analysis of the HO-cleaved MAT DNA intermediate generated during the mating type switch in the yeast Saccharomyces cerevisiae. Raveh D, et al. **Mol Gen Genet** 1989 Dec;220(1):33-42

Escape of DNA from mitochondria to the nucleus in Saccharomyces cerevisiae. Thorsness PE, et al. **Nature** 1990 Jul 26;346(6282):376-9

On the flexible interaction of yeast factor tau with the bipartite promoter of tRNA genes. Camier S, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4571-8

Yeast general transcription factor GFI: sequence requirements for binding to DNA and evolutionary conservation. Dorsman JC, et al. **Nucleic Acids Res** 1990 May 11;18(9):2769-76

Characterisation of the DNA binding domain of the yeast RAP1 protein [published erratum appears in Nucleic Acids Res 1990 Jul 25;18(14):4317] Henry YA, et al. **Nucleic Acids Res** 1990 May 11;18(9):2617-23

cAMP-dependent phosphorylation and inactivation of yeast

transcription factor ADR1 does not affect DNA binding. Taylor WE, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(11):4098–102

PHYSIOLOGY

A 125-base-pair CEN6 DNA fragment is sufficient for complete meiotic and mitotic centromere functions in Saccharomyces cerevisiae. Cottarel G, et al. **Mol Cell Biol** 1989 Aug;9(8):3342–9

RADIATION EFFECTS

Interactions of the RAD7 and RAD23 excision repair genes of Saccharomyces cerevisiae with DNA repair genes in different epistasis groups. Schiestl RH, et al. **Curr Genet** 1989 Oct;16(4):219–23

Differential repair of UV damage in Saccharomyces cerevisiae is cell cycle dependent. Terleth C, et al. **EMBO J** 1990 Sep;9(9):2899–904

A comparative study of rejoining of DNA double-strand breaks in yeast irradiated with 3.5 MeV alpha-particles or with 30 MeV electrons. Frankenberg-Schwager M, et al. **Int J Radiat Biol** 1990 Jun;57(6):1151–68

Identification of proteins whose synthesis in Saccharomyces cerevisiae is induced by DNA damage and heat shock. Gailit J. **Int J Radiat Biol** 1990 May;57(5):981–92

Molecular dosimetry of 8-MOP + UVA-induced DNA photoadducts in Saccharomyces cerevisiae: correlation of lesions number with genotoxic potential. Bankmann M, et al. **J Photochem Photobiol B** 1989 Oct;4(1):57–74

[The role of the repair of double-stranded DNA breaks in the radioresistance of yeast cells] Glazunov AV. **Radiobiologiia** 1990 Jan-Feb;30(1):3–15 (47 ref.) (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Sequence dependent conformation and local geometry of the conserved branch site sequence element d(TpApCpTpApApC), essential for yeast mRNA splicing, deduced from high resolution 1H-NMR. Lee M, et al. **J Biomol Struct Dyn** 1987 Aug;5(1):35–46

Characterization and comparison of mitochondrial DNAs and rRNAs from Penicillium urticae and P. chrysogenum. Sekiguchi J, et al. **J Gen Microbiol** 1990 Mar;136 (Pt 3):535–43

DNA GYRASE

Structure and partial amino acid sequence of calf thymus DNA topoisomerase II: comparison with other type II enzymes. Austin CA, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):763–8

Stabilization of the topoisomerase II-DNA cleavage complex by antineoplastic drugs: inhibition of enzyme-mediated DNA religation by 4'-(9-acridinylamino)methanesulfon-m-anisidide. Robinson MJ, et al. **Biochemistry** 1990 Mar 13; 29(10):2511–5

Topoisomerase II-mediated DNA damage of episomes in tumor-bearing mice. Cullinan EB, et al. **Cancer Res** 1990 Oct 1;50(19):6154–7

DNA topoisomerases. Hsieh T. **Curr Opin Cell Biol** 1990 Jun;2(3):461–3 (21 ref.)

Two-dimensional crystallization of DNA gyrase B subunit on specifically designed lipid monolayers. Lebeau L, et al. **FEBS Lett** 1990 Jul 2;267(1):38–42

ANALYSIS

Use of in vitro topoisomerase II assays for studying quinolone antibacterial agents. Barrett JF, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1697–703

Reduced DNA topoisomerase II activity and drug-induced DNA cleavage activity in an adriamycin-resistant human small cell lung carcinoma cell line. de Jong S, et al. **Cancer Res** 1990 Jan 15;50(2):304–9

Reduction of drug accumulation and DNA topoisomerase II activity in acquired teniposide-resistant human cancer KB cell lines. Matsuo K, et al. **Cancer Res** 1990 Sep 15; 50(18):5819–24

A rapid and quantitative microtiter assay for eukaryotic topoisomerase II. Muller MT, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9499

ANTAGONISTS & INHIBITORS

Inhibitory effects of quinolones on DNA gyrase of Escherichia coli and topoisomerase II of fetal calf thymus. Hoshino K, et al. **Antimicrob Agents Chemother** 1989 Oct; 33(10):1816–8

In vitro inhibition of bacterial DNA gyrase by cinodine, a glycocinnamoylspermidine antibiotic. Osburne MS, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1450–2

Sequence-selective topoisomerase II inhibition by anthracycline derivatives in SV40 DNA: relationship with DNA binding affinity and cytotoxicity. Capranico G, et al. **Biochemistry** 1990 Jan 16;29(2):562–9

Topoisomerase-targeting antitumor drugs. D'Arpa P, et al. **Biochim Biophys Acta** 1989 Dec 17;989(2):163–77 (165 ref.)

DNA topoisomerase dysfunction: a new goal for antitumor chemotherapy. Smith PJ. **Bioessays** 1990 Apr;12(4):167–72 (47 ref.)

A model for tumor cell killing by topoisomerase poisons. Zhang H, et al. **Cancer Cells** 1990 Jan;2(1):23–7 (32 ref.)

A DNA topoisomerase II-independent route for novobiocin-mediated resistance to DNA binding agents. Smith PJ, et al. **Cancer Chemother Pharmacol** 1990; 26(4):257–62

DNA double-strand break repair pathways and cellular tolerance to inhibitors of topoisomerase II. Caldecott K, et al. **Cancer Res** 1990 Sep 15;50(18):5778–83

Differential requirement of DNA replication for the cytotoxicity of DNA topoisomerase I and II inhibitors in Chinese hamster DC3F cells. Holm C, et al. **Cancer Res** 1989 Nov 15;49(22):6365–8

Sensitivity of Chinese hamster ovary mutants defective in DNA double strand break repair to topoisomerase II inhibitors. Jeggo PA, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7057–63

Antagonistic effect of aclarubicin on the cytotoxicity of etoposide and 4'-(9-acridinylamino)methanesulfon-m-anisidide in human small cell lung cancer cell lines and on topoisomerase II-mediated DNA cleavage. Jensen PB, et al. **Cancer Res** 1990 Jun 1;50(11):3311–6

Altered formation of DNA in human cells treated with inhibitors of DNA topoisomerase II (etoposide and teniposide). Lönn U, et al. **Cancer Res** 1989 Nov 15; 49(22):6202–7

Potentiation of topoisomerase inhibitor-induced DNA strand breakage and cytotoxicity by tumor necrosis factor: enhancement of topoisomerase activity as a mechanism of potentiation. Utsugi T, et al. **Cancer Res** 1990 May 1; 50(9):2636–40

Abrogation by novobiocin of cytotoxicity due to the topoisomerase II inhibitor amsacrine in Chinese hamster cells. Utsumi H, et al. **Cancer Res** 1990 May 1;50(9):2577–81

Potentiation by phenylbisbenzimidazoles of cytotoxicity of anticancer drugs directed against topoisomerase II. Finlay GJ, et al. **Eur J Cancer** 1990;26(5):586–9

Effect of topoisomerase modulators on cisplatin cytotoxicity in human ovarian carcinoma cells. Katz EJ, et al. **Eur J Cancer** 1990;26(6):724–7

Chemoprotection by 9-aminoacridine derivatives against the cytotoxicity of topoisomerase II-directed drugs. Finlay GJ, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1695–701

Value of new quinolones in the treatment and prophylaxis of infectious diseases: introductory remarks. Wolfson JS, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec;8(12):1071–4

Increased expression of biodegradative threonine dehydratase of Escherichia coli by DNA gyrase inhibitors. Sumantran VN, et al. **FEMS Microbiol Lett** 1989 Nov;53(1-2):37–40

DNA topoisomerase: the mechanism of resistance to DNA topoisomerase II inhibitor VP-16. Hong JH. **Hiroshima J Med Sci** 1989 Dec;38(4):197–207

Comparison of DNA cleavage induced by etoposide and doxorubicin in two human small-cell lung cancer lines with different sensitivities to topoisomerase II inhibitors. Binaschi M, et al. **Int J Cancer** 1990 Feb 15;45(2):347–52

Increase in topoisomerase-II-mediated DNA breaks and cytotoxicity of VP16 in human U937 lymphoma cells pretreated with low doses of methotrexate. Lorico A, et al. **Int J Cancer** 1990 Jan 15;45(1):156–62

Transcriptional induction of purple membrane and gas vesicle synthesis in the archaebacterium Halobacterium halobium is blocked by a DNA gyrase inhibitor. Yang CF, et al. **J Bacteriol** 1990 Jul;172(7):4118–21

Microbial DNA topoisomerases and their inhibition by antibiotics. Zimmer C, et al. **J Basic Microbiol** 1990; 30(3):209–24 (119 ref.)

Inhibitors of topoisomerases I and II arrest DNA replication, but do not prevent nucleosome assembly in vivo. Annunziato AT. **J Cell Sci** 1989 Aug;93 (Pt 4):593–603

Potential antitumor agents. 59. Structure-activity relationships for 2-phenylbenzimidazole-4-carboxamides, a new class of "minimal" DNA-intercalating agents which may not act via topoisomerase II. Denny WA, et al. **J Med Chem** 1990 Feb;33(2):814–9

Antitumor agents. 111. New 4-hydroxylated and 4-halogenated anilino derivatives of 4'-demethylepipodophyllotoxin as potent inhibitors of human DNA topoisomerase II. Lee KH, et al. **J Med Chem** 1990 May;33(5):1364–8

Antitumor agents. 113. New 4 beta-arylamino derivatives of 4'-O-demethylepipodophyllotoxin and related compounds as potent inhibitors of human DNA topoisomerase II. Wang ZQ, et al. **J Med Chem** 1990 Sep; 33(9):2660–6

Multidrug resistance associated with altered topoisomerase II activity—topoisomerases II as targets for rational drug design [comment] Morrow CS, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):638–9 Comment on: J Natl Cancer Inst 1990 Apr 18;82(8):662–7.

Effects of the DNA topoisomerase II inhibitor, VM26, on transcriptional initiation in vitro. Preston GM, et al. **Life Sci** 1990;46(18):1309–18

Topoisomerases, new targets in cancer chemotherapy. Zijlstra JG, et al. **Med Oncol Tumor Pharmacother** 1990; 7(1):11–8 (108 ref.)

Inhibition of topoisomerase II does not inhibit transcription of RNA polymerase I and II genes. Dunaway M. **Mol Cell Biol** 1990 Jun;10(6):2893–900

Interaction of DNA intercalator 3-nitrobenzothiazolo (3,2-a)quinolinium with DNA topoisomerases: a possible-mechanism for its biological activity. Báez A, et al. **Mol Pharmacol** 1990 Mar;37(3):377–82

Effects of morpholinyl doxorubicins, doxorubicin, and actinomycin D on mammalian DNA topoisomerases I and II. Wassermann K, et al. **Mol Pharmacol** 1990 Jul; 38(1):38–45

Isolation and partial characterisation of a mammalian cell mutant hypersensitive to topoisomerase II inhibitors and X-rays. Davies SM, et al. **Mutat Res** 1990 Mar;235(2):111–8

Killing and mutation induction in quiescent V79 cells as influenced by nalidixic acid. Ghosh R, et al. **Mutat Res** 1990 Jan;243(1):7–12

Inhibition of DNA synthesis and cytotoxic effects of some DNA topoisomerase II and gyrase inhibitors in Chinese hamster V79 cells. Suciu D. **Mutat Res** 1990 Mar; 243(3):213–8

Comparison of effects of fostriecin, novobiocin, and camptothecin, inhibitors of DNA topoisomerases, on DNA replication and repair in human cells. Gedik CM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1007–13

Transcription of adenovirus and HeLa cell genes in the presence of drugs that inhibit topoisomerase I and II function. Schaak J, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1499–508

Topoisomerase inhibitors suppress release of globin sequences into small soluble DNA in erythroblasts. Strauss PR. **Prog Clin Biol Res** 1990;352:249–56

Rapid evaluation of topoisomerase inhibitors: caffeine inhibition of topoisomerases in vivo. Shin CG, et al. **Teratogenesis Carcinog Mutagen** 1990;10(1):41–52

Embryotoxicity of the intercalating agents m-AMSA and o-AMSA and the epipodophyllotoxin VP-16 in postimplantation rat embryos in vitro. Mirkes PE, et al. **Teratology** 1990 Jun;41(6):679–88

Injured mitochondria in cells of Euglena gracilis after DNA gyrase inhibitors treatment. Polónyi J, et al. **Z Mikrosk Anat Forsch** 1990;104(1):61–78

[Antibiotic resistance plasmids from Serratia marcescens and their elimination by DNA-gyrase inhibitors] Llanes C, et al. **C R Soc Biol (Paris)** 1989;183(3):240–6 (Eng. Abstr.) **(Fre)**

[Causes of quinolone resistance in gram-negative bacteria] Cullmann W. **Immun Infekt** 1990 Jun;18(3):80–8 (65 ref.) (Eng. Abstr.) **(Ger)**

[Should the use of gyrase inhibitors be limited to hospitals?] Shah PM. **Immun Infekt** 1990 Jun;18(3):69–70 **(Ger)**

[Intensified risk monitoring of new drugs in general practice by the established physician] Hanpft R, et al. **Verh Dtsch Ges Inn Med** 1989;95:675–82 (14 ref.) **(Ger)**

BIOSYNTHESIS

Differential increase in topoisomerase II in simian virus 40-infected cells. Rainwater R, et al. **J Virol** 1990 Feb; 64(2):918–21

BLOOD

Topoisomerase II activity is not involved in the maintenance of active beta-globin chromatin structure in avian reticulocytes. Brotherton TW, et al. **Prog Clin Biol Res** 1989;316B:57–67

GENETICS

Ciprofloxacin and the fluoroquinolones. New concepts on the mechanism of action and resistance. Fisher LM, et al. **Am J Med** 1989 Nov 30;87(5A):2S–8S

Quinolone resistance-determining region in the DNA gyrase gyrA gene of Escherichia coli. Yoshida H, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1271–2

Proportion of DNA gyrase mutants among quinolone-resistant strains of Pseudomonas aeruginosa. Yoshida H, et al. **Antimicrob Agents Chemother** 1990 Jun; 34(6):1273–5

Evidence for a mutant allele of the gene for DNA topoisomerase II in adriamycin-resistant P388 murine leukemia cells [published erratum appears in Cancer Res 1990 Jan 15;50(2):449] Deffie AM, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6879–82

Induction of topoisomerase II gene expression in human lymphocytes upon phytohemagglutinin stimulation. Hwong CL, et al. **Cancer Res** 1990 Sep 1;50(17 Suppl):5649S–5652S

A nascent peptide is required for ribosomal bypass of the coding gap in bacteriophage T4 gene 60. Weiss RB, et al. **Cell** 1990 Jul 13;62(1):117–26

Isolation and characterization of a human cDNA clone encoding a novel DNA topoisomerase II homologue from HeLa cells. Austin CA, et al. **FEBS Lett** 1990 Jun 18; 266(1-2):115–7

Interplay of novobiocin-resistant and -sensitive DNA gyrase activities in self-protection of the novobiocin producer, Streptomyces sphaeroides. Thiara AS, et al. **Gene** 1989 Sep 1;81(1):65–72

Gyrase inhibitors can increase gyrA expression and DNA supercoiling. Franco RJ, et al. **J Bacteriol** 1989 Dec; 171(12):6573–9

DNA cloning and organization of the Staphylococcus aureus gyrA and gyrB genes: close homology among gyrase proteins and implications for 4-quinolone action and resistance. Hopewell R, et al. **J Bacteriol** 1990 Jun; 172(6):3481–4

Potential mechanisms of resistance to the modern fluorinated 4-quinolones. Lewin CS, et al. **J Med Microbiol** 1990 Mar; 31(3):153–62 (101 ref.)

Inhibition of DNA gyrase activity in an in vitro transcription–translation system stimulates gyrA expression in a DNA concentration dependent manner. Evidence for the involvement of factors which may be titrated. Carty M, et al. **J Mol Biol** 1990 Jul 20;214(2):397–406

Unknotting the complexities of multidrug resistance: the involvement of DNA topoisomerases in drug action and resistance. Beck WT. **J Natl Cancer Inst** 1989 Nov 15; 81(22):1683–5

Nonproductive rearrangement of DNA topoisomerase I and II genes: correlation with resistance to topoisomerase inhibitors. Tan KB, et al. **J Natl Cancer Inst** 1989 Nov 15;81(22):1732–5

Human cytomegalovirus induces expression of cellular topoisomerase II. Benson JD, et al. **J Virol** 1990 Jan; 64(1):9–15

The TOP2 gene of Trypanosoma brucei: a single-copy gene that shares extensive homology with other TOP2 genes encoding eukaryotic DNA topoisomerase II. Strauss PR, et al. **Mol Biochem Parasitol** 1990 Jan 1;38(1):141–50

New Escherichia coli gyrA and gyrB mutations which have a graded effect on DNA supercoiling. Aleixandre V, et al. **Mol Gen Genet** 1989 Oct;219(1–2):306–12

Mutational alteration of the breakage/resealing subunit of bacteriophage T4 DNA topoisomerase confers resistance to antitumor agent m–AMSA. Huff AC, et al. **Mol Gen Genet** 1990 Mar;221(1):27–32

Escherichia coli cells resistant to the DNA gyrase inhibitor, ciprofloxacin, overproduce a 60 kD protein homologous to GroEL. Hallett P, et al. **Mol Microbiol** 1990 Mar; 4(3):345–53

Cloning and sequence analysis of gyrA gene of Klebsiella pneumoniae. Dimri GP, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):151–6

Characterization and immunological identification of cDNA clones encoding two human DNA topoisomerase II isozymes. Chung TD, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9431–5

[Age-related changes in the activity and post-translational modification of DNA topoisomerase II in the quail oviduct] Schröder HC, et al. **Z Gerontol** 1990 May–Jun;23(3):117–22 (Eng. Abstr.) **(Ger)**

METABOLISM

Biochemical characteristics and physiological significance of major DNA topoisomerases. Sutcliffe JA, et al. **Antimicrob Agents Chemother** 1989 Dec;33(12):2027–33 (116 ref.)

Stimulation by gamma-carboline derivatives (simplified analogues of antitumor ellipticines) of site specific DNA cleavage by calf DNA topoisomerase II. Fossé P, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):669–76

Mechanisms underlying resistance to streptozotocin in Mer+ and Mer– human tumor lines. Fram RJ, et al. **Biochem Pharmacol** 1990 Mar 1;39(5):959–64

Microsomal activation and increased production of 4'-(9-acridinylamino)-3-methanesulfon-m-anisidide (m-AMSA)-dependent, topoisomerase-associated DNA lesions in nuclei from human HL-60 leukemia cells. Gorsky LD, et al. **Biochem Pharmacol** 1990 May 1;39(9):1481–4

Induction of mammalian topoisomerase II dependent DNA cleavage by nonintercalative flavonoids, genistein and orobol. Yamashita Y, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):737–44

Strand specificity of the topoisomerase II mediated double-stranded DNA cleavage reaction. Andersen AH, et al. **Biochemistry** 1989 Jul 25;28(15):6237–44

Biochemical and pharmacological properties of p170 and p180 forms of topoisomerase II. Drake FH, et al. **Biochemistry** 1989 Oct 3;28(20):8154–60

Decreased nuclear matrix DNA topoisomerase II in human leukemia cells resistant to VM-26 and m-AMSA. Fernandes DJ, et al. **Biochemistry** 1990 May 1; 29(17):4235–41

Human DNA topoisomerase II: evaluation of enzyme activity in normal and neoplastic tissues. Holden JA, et al. **Biochemistry** 1990 Feb 27;29(8):2127–34

Stimulation of the topoisomerase II induced DNA cleavage sites in the c-myc protooncogene by antitumor drugs is associated with gene expression. Riou JF, et al. **Biochemistry** 1989 Nov 14;28(23):9104–10

Purification and characterization of type II DNA topoisomerase from mouse FM3A cells: phosphorylation of topoisomerase II and modification of its activity. Saijo M, et al. **Biochemistry** 1990 Jan 16;29(2):583–90

Double-stranded DNA cleavage/religation reaction of eukaryotic topoisomerase II: evidence for a nicked DNA intermediate. Zechiedrich EL, et al. **Biochemistry** 1989 Jul 25;28(15):6229–36

Progressive resistance to doxorubicin in mouse leukemia L1210 cells with multidrug resistance phenotype: reductions in drug-induced topoisomerase II–mediated DNA cleavage. Ganapathi R, et al. **Cancer Commun** 1989; 1(4):217–24

Expression of protein-associated DNA damage in the alkaline elution assay in the absence of enzymatic deproteinization. Gewirtz DA, et al. **Cancer Commun** 1989;1(3):175–80

Rapid increase in the activity of DNA topoisomerase I, but not topoisomerase II, in HL-60 promyelocytic leukemia cells treated with a phorbol diester. Gorsky LD, et al. **Cancer Commun** 1989;1(2):83–92

DNA topoisomerase II–mediated interaction of doxorubicin and daunorubicin congeners with DNA. Bodley A, et al. **Cancer Res** 1989 Nov 1;49(21):5969–78

Long-term inhibition of DNA synthesis and the persistence of trapped topoisomerase II complexes in determining the toxicity of the antitumor DNA intercalators mAMSA and mitoxantrone. Fox ME, et al. **Cancer Res** 1990 Sep 15; 50(18):5813–8

Differences between normal and ras-transformed NIH-3T3 cells in expression of the 170kD and 180kD forms of topoisomerase II. Woessner RD, et al. **Cancer Res** 1990 May 15;50(10):2901–8

Involvement of DNA topoisomerase II in the selective resistance of a mammalian cell mutant to DNA minor groove ligands: ligand-induced DNA-protein crosslinking and responses to topoisomerase poisons. Smith PJ, et al. **Carcinogenesis** 1990 Apr;11(4):659–65

Segregation of recombined chromosomes in meiosis I requires DNA topoisomerase II. Rose D, et al. **Cell** 1990 Mar 23; 60(6):1009–17

The role of DNA topoisomerases in recombination and genome stability: a double-edged sword? Wang JC, et al. **Cell** 1990 Aug 10;62(3):403–6

Quantitation of type II topoisomerase in oocytes and eggs of Xenopus laevis. Luke M, et al. **Dev Biol** 1989 Dec; 136(2):459–68

Preferential, cooperative binding of DNA topoisomerase II to scaffold-associated regions. Adachi Y, et al. **EMBO J** 1989 Dec 20;8(13):3997–4006

DNA linking potential generated by gyrase. Kozyavkin SA, et al. **Eur J Biochem** 1990 Jul 20;191(1):105–13

Structure-activity relations, cytotoxicity and topoisomerase II dependent cleavage induced by pendulum ring analogues of etoposide. Sinha BK, et al. **Eur J Cancer** 1990; 26(5):590–3

Protein:DNA interactions at chromosomal loop attachment sites. Blasquez VC, et al. **Genome** 1989;31(2):503–9 (38 ref.)

Topoisomerase II as a target of antileukemia drugs: a review of controversial areas. Zwelling LA. **Hematol Pathol** 1989; 3(3):101–12 (112 ref.)

Effect of nonviable preparations from human immunodeficiency virus type 1 on nuclear matrix–associated DNA polymerase alpha and DNA topoisomerase II activities. Müller WE, et al. **J Acquir Immune Defic Syndr** 1990;3(1):1–10

Identification and characterization of gyrB mutants of Escherichia coli that are defective in partitioning of mini-F plasmids. Ogura T, et al. **J Bacteriol** 1990 Mar; 172(3):1562–8

Effects of transcription and translation on gyrase-mediated DNA cleavage in Escherichia coli. Koo HS, et al. **J Biol Chem** 1990 Jul 25;265(21):12300–5

Nuclease protection by Drosophila DNA topoisomerase II. Enzyme/DNA contacts at the strong topoisomerase II cleavage sites. Lee MP, et al. **J Biol Chem** 1989 Dec 25; 264(36):21779–87

Minimal DNA requirement for topoisomerase II–mediated cleavage in vitro. Lund K, et al. **J Biol Chem** 1990 Aug 15;265(23):13856–63

Tryptic fragments of the Escherichia coli DNA gyrase A protein. Reece RJ, et al. **J Biol Chem** 1989 Nov 25; 264(33):19648–53

DNA substrate specificity of reverse gyrase from extremely thermophilic archaebacteria. Slesarev AI, et al. **J Biomol Struct Dyn** 1990 Feb;7(4):935–42

Neutron and light-scattering studies of DNA gyrase and its complex with DNA. Krueger S, et al. **J Mol Biol** 1990 Jan 5;211(1):211–20

Application of a degenerate consensus sequence to quantify recognition sites by vertebrate DNA topoisomerase II. Spitzner JR, et al. **J Mol Recognit** 1989 Sep;2(2):63–74

Design of DNA intercalators to overcome topoisomerase II–mediated multidrug resistance. Baguley BC, et al. **J Natl Cancer Inst** 1990 Mar 7;82(5):398–402

HT1080/DR4: a P-glycoprotein-negative human fibrosarcoma cell line exhibiting resistance to topoisomerase II–reactive drugs despite the presence of a drug-sensitive topoisomerase II. Zwelling LA, et al. **J Natl Cancer Inst** 1990 Oct 3;82(19):1553–61

Topoisomerase II cleavage of herpes simplex virus type 1 DNA in vivo is replication dependent. Ebert SN, et al. **J Virol** 1990 Sep;64(9):4059–66

Identification within the simian virus 40 genome of a chromosomal loop attachment site that contains topoisomerase II cleavage sites. Pommier Y, et al. **J Virol** 1990 Jan;64(1):419–23

Topoisomerase I and II cleavage of adenovirus DNA in vivo: both topoisomerase activities appear to be required for adenovirus DNA replication. Schaack J, et al. **J Virol** 1990 Jan;64(1):78–85

Involvement of topoisomerases in replication, transcription, and packaging of the linear adenovirus genome. Wong ML, et al. **J Virol** 1990 Feb;64(2):691–9

Inhibition of transcription by adriamycin is a consequence of the loss of negative superhelicity in DNA mediated by topoisomerase II. Tarr M, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):141–6

Developmental regulation of topoisomerase II sites and DNase I–hypersensitive sites in the chicken beta-globin locus. Reitman M, et al. **Mol Cell Biol** 1990 Jun; 10(6):2774–86

Depletion of topoisomerase II in isolated nuclei during a glucose-regulated stress response. Shen JW, et al. **Mol Cell Biol** 1989 Aug;9(8):3284–91

The DNA gyrase of Escherichia coli participates in the formation of a spontaneous deletion by recA-independent recombination in vivo. Miura-Masuda A, et al. **Mol Gen Genet** 1990 Feb;220(3):345–52

The effect of novobiocin on yeast topoisomerase type II. Pocklington MJ, et al. **Mol Gen Genet** 1990 Jan; 220(2):256–60

Evidence of DNA topoisomerase II–dependent mechanisms of multidrug resistance in P388 leukemia cells. De Isabella P, et al. **Mol Pharmacol** 1990 Jan;37(1):11–6

DNA topoisomerases and models of sister-chromatid exchange. Dillehay LE, et al. **Mutat Res** 1989 Nov; 215(1):15–23

Age-dependent increase of DNA topoisomerase II activity in quail oviduct; modulation of the nuclear matrix–associated enzyme activity by protein phosphorylation and poly(ADP-ribosyl)ation. Schröder HC, et al. **Mutat Res** 1989 Sep–Nov;219(5–6):283–94

Nucleosome positioning as a critical determinant for the DNA cleavage sites of mammalian DNA topoisomerase II in reconstituted simian virus 40 chromatin. Capranico G, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4553–9

Archaebacterial reverse gyrase cleavage-site specificity is similar to that of eubacterial DNA topoisomerases I. Kovalsky OI, et al. **Nucleic Acids Res** 1990 May 11; 18(9):2801–5

Eukaryotic topoisomerase II preferentially cleaves alternating purine-pyrimidine repeats. Spitzner JR, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):1–11

[Relaxation of negatively supercoiled DNA by topoisomerases of 2 types in the presence of tetracycline] Karpenchuk KG, et al. **Dokl Akad Nauk SSSR** 1990; 310(3):741–3 **(Rus)**

[Topoisomerase I cleavage site in the regulatory zone of transcriptionally active minichromosomes of the SV40 virus located adjacent to a region, hypersensitive to DNAase I and segments recognizing topoisomerase II] Vasetskiĭ ES, et al. **Dokl Akad Nauk SSSR** 1989; 306(6):1493–6 **(Rus)**

PHARMACOLOGY

Quantitative adaptation of the bacteriophage P4 DNA unknotting assay for use in the biochemical and pharmacological characterization of topoisomerase II. Hofmann GA, et al. **Anticancer Drug Des** 1990 Aug; 5(3):273–82

PHYSIOLOGY

Evidence for the participation of topoisomerases I and II in cadmium-induced metallothionein expression in Chinese hamster ovary cells. Mattern MR, et al. **Anticancer Drug Des** 1989 Aug;4(2):107–24

Induction of mammalian DNA topoisomerase II dependent DNA cleavage by antitumor antibiotic streptonigrin. Yamashita Y, et al. **Cancer Res** 1990 Sep 15;50(18):5841–4

Anti-topoisomerase II recognizes meiotic chromosome cores. Moens PB, et al. **Chromosoma** 1989 Nov;98(5):317–22

Chemotherapy: topoisomerases as targets [editorial] **Lancet** 1990 Jan 13;335(8681):82–3

The involvement of topoisomerases and DNA polymerase I in the mechanism of induced thermal and radiation resistance in yeast. Boreham DR, et al. **Radiat Res** 1990 Aug;123(2):203–12

DNA HELIX DESTABILIZING PROTEINS see **DNA-BINDING PROTEINS**

DNA INJURY see **DNA DAMAGE**

DNA INSERTION ELEMENTS

see related
DNA, RECOMBINANT

A novel method for the purification of HIV-1 p24 protein from hybrid Ty virus-like particles (Ty-VLPs). Gilmour JE, et al. **AIDS** 1989 Nov;3(11):717–23

Homologous recombination between the LTRs of a human retrovirus–like element causes a 5-kb deletion in two siblings. Mager DL, et al. **Am J Hum Genet** 1989 Dec; 45(6):848–54

The population genetics of Drosophila transposable elements. Charlesworth B, et al. **Annu Rev Genet** 1989;23:251–87 (150 ref.)

Maize transposable elements. Gierl A, et al. **Annu Rev Genet** 1989;23:71–85 (84 ref.)

Transcription and reverse transcription of retrotransposons. Boeke JD, et al. **Annu Rev Microbiol** 1989;43:403–34 (130 ref.)

Mobility of gentamicin resistance genes from staphylococci isolated in the United States: identification of Tn4031, a gentamicin resistance transposon from Staphylococcus epidermidis. Thomas WD Jr, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1335–41

Genes encoding mercuric reductases from selected gram-negative aquatic bacteria have a low degree of homology with merA of transposon Tn501. Barkay T, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1695–701

Insertion elements on lactococcal proteinase plasmids. Haandrikman AJ, et al. **Appl Environ Microbiol** 1990 Jun; 56(6):1890–6

Positive regulation of the Drosophila melanogaster G6PD gene by an insertion sequence. Ito H, et al. **Biochem Genet** 1989 Aug;27(7–8):379–93

Four tandem defective P elements associated with positive regulation of the Drosophila melanogaster glucose-6-phosphate dehydrogenase gene. Itoh M, et al. **Biochem Genet** 1989 Dec;27(11–12):699–718

The effect of insertion of the maize transposable element mutator is dependent on genetic background. Ortiz DF, et al. **Biochem Genet** 1990 Feb;28(1–2):9–20

Secondary structural features of the bacteriophage Mu-encoded A and B transposition proteins. Chaconas G, et al. **Biochem J** 1989 Oct 1;263(1):19–23

Rapid Hfr mapping of Mu dlac fusions. Peruski LF Jr. **Biotechniques** 1990 Jul;9(1):40, 42

Hemoglobin Birmingham and hemoglobin Galicia: two unstable beta chain variants characterized by small deletions and insertions. Wilson JB, et al. **Blood** 1990 May 1;75(9):1883–7

An in-frame insertion in the prion protein gene in familial Creutzfeldt-Jakob disease. Owen F, et al. **Brain Res Mol Brain Res** 1990 Apr;7(3):273–6

Optimal sequence alignment allowing for long gaps. Gotoh O. **Bull Math Biol** 1990;52(3):359–73

Expression of the retrotransposons, intracisternal A-particles, during neoplastic progression of mouse mammary epithelium analyzed with a monoclonal antibody. Asch BB, et al. **Cancer Res** 1990 Apr 15;50(8):2404–10

Ribosomal frameshifting in the yeast retrotransposon Ty: tRNAs induce slippage on a 7 nucleotide minimal site. Belcourt MF, et al. **Cell** 1990 Jul 27;62(2):339–52

Intramolecular transposition by Tn10. Benjamin HW, et al. **Cell** 1989 Oct 20;59(2):373–83

The wrinkled-seed character of pea described by Mendel is caused by a transposon-like insertion in a gene encoding starch-branching enzyme. Bhattacharyya MK, et al. **Cell** 1990 Jan 12;60(1):115–22

Excision and insertion of the conjugative transposon Tn916 involves a novel recombination mechanism. Caparon MG, et al. **Cell** 1989 Dec 22;59(6):1027–34

P element transposition. Craig NL. **Cell** 1990 Aug 10; 62(3):399–402 (24 ref.)

High-frequency P element loss in Drosophila is homolog dependent. Engels WR, et al. **Cell** 1990 Aug 10; 62(3):515–25

A specific class of IS10 transposase mutants are blocked for target site interactions and promote formation of an excised transposon fragment. Haniford DB, et al. **Cell** 1989 Oct 20;59(2):385–94

Drosophila P element transposase recognizes internal P element DNA sequences. Kaufman PD, et al. **Cell** 1989 Oct 20;59(2):359–71

Identification of Alu transposition in human lung carcinoma cells: a correction [letter] Lin CS, et al. **Cell** 1989 Oct 6; 59(1):9

Cytotype control of Drosophila P element transposition: the 66 kd protein is a repressor of transposase activity. Misra S, et al. **Cell** 1990 Jul 27;62(2):269–84

Transgenic mouse model of kidney disease: insertional inactivation of ubiquitously expressed gene leads to nephrotic syndrome. Weiher H, et al. **Cell** 1990 Aug 10; 62(3):425–34

DNA sequence comparison of micropia transposable elements from Drosophila hydei and Drosophila melanogaster. Lankenau DH, et al. **Chromosoma** 1990 Apr; 99(2):111–7

Copy number and distribution of P and I mobile elements in Drosophila melanogaster populations. Ronsseray S, et al. **Chromosoma** 1989 Sep;98(3):207–14

The beta heterochromatic sequences flanking the I elements are themselves defective transposable elements. Vaury C, et al. **Chromosoma** 1989 Sep;98(3):215–24

A hot-spot for transposition of various Ty elements on chromosome V in Saccharomyces cerevisiae. Lochmüller H, et al. **Curr Genet** 1989 Oct;16(4):247–52

Identification of a second retrotransposon-related element in the genome of Physarum polycephalum. McCurrach KJ, et al. **Curr Genet** 1990 May;17(5):403–8

Transposable elements and DNA transposition in eukaryotes. Finnegan DJ. **Curr Opin Cell Biol** 1990 Jun;2(3):471–7 (22 ref.)

Transposition of the abl proto-oncogene in Philadelphia-negative chronic myeloid leukaemia and acute lymphocytic leukaemia. Stopera SA, et al. **Cytobios** 1990;61(246–247):161–70

Analysis of the hotfoot (ho) locus by creation of an insertional mutation in a transgenic mouse. Gordon JW, et al. **Dev Biol** 1990 Feb;137(2):349–58

Retrovirus-mediated insertional mutagenesis: phagemid rescue of flanking DNA by selecting plasmid ori. Rodgers JR, et al. **DNA Cell Biol** 1990 Mar;9(2):139–47

The IS10 transposase mRNA is destabilized during antisense RNA control. Case CC, et al. **EMBO J** 1990 Apr; 9(4):1259–66

The unusual stability of the IS10 anti-sense RNA is critical for its function and is determined by the structure of its stem-domain. Case CC, et al. **EMBO J** 1989 Dec 20; 8(13):4297–305

A novel transposition system in Drosophila melanogaster depending on the Stalker mobile genetic element. Georgiev PG, et al. **EMBO J** 1990 Jul;9(7):2037–44

En/Spm encoded tnpA protein requires a specific target sequence for suppression. Grant SR, et al. **EMBO J** 1990 Jul;9(7):2029–35

Mutational analysis of IS10's outside end. Huisman O, et al. **EMBO J** 1989 Jul;8(7):2101–9

The putative transposase of transposable element Ac from Zea mays L. interacts with subterminal sequences of Ac. Kunze R, et al. **EMBO J** 1989 Nov;8(11):3177–85

The IS10 antisense RNA blocks ribosome binding at the transposase translation initiation site. Ma C, et al. **EMBO J** 1990 Apr;9(4):1267–74

Genetic elements involved in Tn21 site-specific integration, a novel mechanism for the dissemination of antibiotic resistance genes. Martinez E, et al. **EMBO J** 1990 Apr; 9(4):1275–81

Molecular characterization of two proteins involved in the excision of the conjugative transposon Tn1545: homologies with other site-specific recombinases. Poyart-Salmeron C, et al. **EMBO J** 1989 Aug;8(8):2425–33

Action at a distance in Mu DNA transposition: an enhancer-like element is the site of action of supercoiling relief activity by integration host factor (IHF). Surette MG, et al. **EMBO J** 1989 Nov;8(11):3483–9

A highly repetitive and transcribable sequence in the tortoise genome is probably a retroposon. Endoh H, et al. **Eur J Biochem** 1990 Apr 20;189(1):25–31

Bleomycin-kanamycin resistance as a marker of the presence of transposon Tn5 in clinical strains of Escherichia coli. Baquero F, et al. **Eur J Clin Microbiol Infect Dis** 1989 Nov;8(11):995–8

Transcription and replication silencer element is present within conserved region of human Alu repeats interacting with nuclear protein. Tomilin NV, et al. **FEBS Lett** 1990 Apr 9;263(1):69–72

Orientation of the carboxyl terminus of the transposon Tn10-encoded tetracycline resistance protein in Escherichia coli. Yamaguchi A, et al. **FEBS Lett** 1990 Jun 4;265(1–2):17–9

Plasmid RP4 host-lethal function kilA and its repressor korA sequences are part of the cryptic tellurite resistance transposon Tn521. Grewal KK. **FEMS Microbiol Lett** 1990 May;57(1–2):97–9

IS30 activation of an smp'-lacZ gene fusion in Escherichia coli. Neuwald AF, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1–2):13–7

Osmoregulatory expression of the ompC gene in Escherichia coli K-12; IS1 insertion in the upstream regulatory region results in constitutive activation of the promoter. Ozawa Y, et al. **FEMS Microbiol Lett** 1990 Mar 15;56(3):295–9

Transfer of transposon Tn916 from Bacillus subtilis to Thermus aquaticus. Sen S, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1–2):131–4

Transfer and expression of the tetracycline resistance transposon Tn925 in Acetobacterium woodii. Strätz M, et al. **FEMS Microbiol Lett** 1990 Mar 1;56(1–2):171–6

Molecular genetic analysis of bacterial plasmid promiscuity. Krishnapillai V. **FEMS Microbiol Rev** 1988 Sep;4(3):223–37 (85 ref.)

The tubulin gene cluster of Trypanosoma brucei starts with an intact beta-gene and ends with a truncated beta-gene interrupted by a retrotransposon-like sequence. Affolter M, et al. **Gene** 1989 Aug 1;80(1):177–83

A site-specific endonuclease and co-conversion of flanking exons associated with the mobile td intron of phage T4. Bell-Pedersen D, et al. **Gene** 1989 Oct 15;82(1):119–26

Empty and occupied insertion site of the truncated LINE-1 repeat located in the mouse serum albumin-encoding gene. Boccaccio C, et al. **Gene** 1990 Apr 16;88(2):181–6

Saturation mutagenesis of the inside end of insertion sequence IS50. Dodson KW, et al. **Gene** 1989 Dec 21;85(1):75–81

Mobile introns: definition of terms and recommended nomenclature. Dujon B, et al. **Gene** 1989 Oct 15;82(1):115–8 (15 ref.)

Group I introns as mobile genetic elements: facts and mechanistic speculations—a review. Dujon B. **Gene** 1989 Oct 15;82(1):91–114 (135 ref.)

Multiple high-frequency transpositions of Tn5 in Serratia marcescens 274 from a thermosensitive replication mutant of plasmid R388. Estepa GR, et al. **Gene** 1989 Sep 30; 81(2):355–9

Two domains in the terminal inverted-repeat sequence of transposon Tn3. Ichikawa H, et al. **Gene** 1990 Jan 31; 86(1):11–7

Members of the RTVL-H family of human endogenous retrovirus-like elements are expressed in placenta. Johansen T, et al. **Gene** 1989 Jul 15;79(2):259–67

Transposable elements for efficient manipulation of a wide range of gram-negative bacteria: promoter probes and vectors for foreign genes. Joseph-Liauzun E, et al. **Gene** 1989 Dec 21;85(1):83–9

Sumo15A: a lambda phasmid that permits easy selection for and against cloned inserts. Kurachi S, et al. **Gene** 1989 Dec 21;85(1):35–43

Evidence for a role of translational frameshifting in the expression of transposition activity of the bacterial insertion element IS1. Lüthi K, et al. **Gene** 1990 Mar 30;88(1):15–20

Tn3 transposition immunity is conferred by the transposase-binding domain in the terminal inverted-repeat sequence of Tn3. Memura J, et al. **Gene** 1990 Mar 30; 88(1):21–4

Construction and characterization of versatile kanamycin-resistance cassettes derived from the Tn5 transposon. Musso RE, et al. **Gene** 1989 Dec 21;85(1):205–7

P-transposable vectors expressing a constitutive and thermoinducible hsp82-neo fusion gene for Drosophila germline transformation and tissue-culture transfection. Sass H. **Gene** 1990 May 14;89(2):179–86

Two subfamilies of murine retrotransposon ETn sequences. Shell BE, et al. **Gene** 1990 Feb 14;86(2):269–74

Nucleotide sequence of Streptomyces fradiae transposable element Tn4556: a class-II transposon related to Tn3. Siemieniak DR, et al. **Gene** 1990 Jan 31;86(1):1–9

New derivatives of transposon Tn5 suitable for mobilization of replicons, generation of operon fusions and induction of genes in gram-negative bacteria. Simon R, et al. **Gene** 1989 Aug 1;80(1):161–9

Vectors for constructing kan gene fusions: direct selection of mutations affecting IS10 gene expression. Sussman JK, et al. **Gene** 1990 May 31;90(1):135–40

Transposon mutagenesis of baculoviruses: analysis of TFP3 lepidopteran transposon insertions at the FP locus of nuclear polyhedrosis viruses. Wang HH, et al. **Gene** 1989 Sep 1;81(1):97–108

An insertion vector for the analysis of gene expression during herpes simplex virus infection. Weir JP, et al. **Gene** 1990 May 14;89(2):271–4

The splicing of maize transposable elements from pre-mRNA—a minireview. Wessler SR. **Gene** 1989 Oct 15;82(1):127–33 (44 ref.)

P-element-mediated enhancer detection: a versatile method to study development in Drosophila. Bellen HJ, et al. **Genes Dev** 1989 Sep;3(9):1288–300

Searching for pattern and mutation in the Drosophila genome with a P-lacZ vector. Bier E, et al. **Genes Dev** 1989 Sep; 3(9):1273–87

A specific terminal structure is required for Ty1 transposition. Eichinger DJ, et al. **Genes Dev** 1990 Mar;4(3):324–30

A retrotransposon 412 insertion within an exon of the Drosophila melanogaster vermilion gene is spliced from the precursor RNA. Fridell RA, et al. **Genes Dev** 1990 Apr;4(4):559–66

Precise excision of telomere-bearing transposons during Oxytricha fallax macronuclear development. Hunter DJ, et al. **Genes Dev** 1989 Dec;3(12B):2101–12

The Caenorhabditis elegans gene lin-10 is broadly expressed while required specifically for the determination of vulval cell fates. Kim SK, et al. **Genes Dev** 1990 Mar;4(3):357–71

Somatically heritable switches in the DNA modification of Mu transposable elements monitored with a suppressible mutant in maize. Martienssen R, et al. **Genes Dev** 1990 Mar; 4(3):331–43

Temporal and spatial regulation of the symbiotic genes of Rhizobium meliloti in planta revealed by transposon Tn5-gusA. Sharma SB, et al. **Genes Dev** 1990 Mar; 4(3):344–56

P-element-mediated enhancer detection: an efficient method for isolating and characterizing developmentally regulated genes in Drosophila. Wilson C, et al. **Genes Dev** 1989 Sep; 3(9):1301–13

Meiotic drive in female mice heterozygous for the HSR inserts on chromosome 1. Agulnik SI, et al. **Genet Res** 1990 Apr;55(2):97–100

Somatic reversion of P transposable element insertion mutations in the singed locus of Drosophila melanogaster requiring specific P insertions and a trans- acting factor. Brookfield JF, et al. **Genet Res** 1989 Oct;54(2):101–12

A study of ten families of transposable elements on X chromosomes from a population of Drosophila melanogaster. Charlesworth B, et al. **Genet Res** 1989 Oct; 54(2):113–25

Mariner, Mos and associated aberrant traits in Drosophila mauritiana. Jacobson JW. **Genet Res** 1990 Jun;55(3):153–8

P-element transposase induces male recombination in Drosophila melanogaster. McCarron MY, et al. **Genet Res** 1989 Oct;54(2):137–41

Hybrid dysgenesis-induced response to selection in Drosophila melanogaster. Pignatelli PM, et al. **Genet Res** 1989 Dec;54(3):183–95

Interactions among modifiers of retrotransposon-induced alleles of the white locus of Drosophila melanogaster. Rabinow L, et al. **Genet Res** 1990 Jun;55(3):141–51

Comparison of the regulation of P elements in M and M' strains of Drosophila melanogaster. Ronsseray S, et al. **Genet Res** 1989 Aug;54(1):13–21

Insertion and excision of the transposable element mariner in Drosophila. Bryan G, et al. **Genetics** 1990 May; 125(1):103–14

Evidence for horizontal transmission of the P transposable element between Drosophila species. Daniels SB, et al. **Genetics** 1990 Feb;124(2):339–55

The relationship between P elements and male recombination in Drosophila melanogaster. Duttaroy A, et al. **Genetics** 1990 Feb;124(2):317–29

Examination of a mutable system affecting the components of the segregation distorter meiotic drive system of Drosophila melanogaster. Golic KG. **Genetics** 1990 May; 125(1):51–76

Hybrid dysgenesis-induced quantitative variation on the X chromosome of Drosophila melanogaster. Lai CQ, et al. **Genetics** 1990 Mar;124(3):627–36

Molecular analysis of a transposon-induced deletion of the nivea locus in Antirrhinum majus. Lister C, et al. **Genetics** 1989 Oct;123(2):417–25

Ty1 transposition in Saccharomyces cerevisiae is nonrandom. Natsoulis G, et al. **Genetics** 1989 Oct;123(2):269–79

Quantitative effects of P elements on hybrid dysgenesis in Drosophila melanogaster. Rasmusson KE, et al. **Genetics** 1990 Mar;124(3):647–62

Modified P elements that mimic the P cytotype in Drosophila melanogaster. Robertson HM, et al. **Genetics** 1989 Dec; 123(4):815–24

Transposable element–induced response to artificial selection in Drosophila melanogaster: molecular analysis of selection lines. Shrimpton AE, et al. **Genetics** 1990 Aug; 125(4):803–11

Repression of P element–mediated hybrid dysgenesis in Drosophila melanogaster. Simmons MJ, et al. **Genetics** 1990 Mar;124(3):663–76

The P–M and the 23.5 MRF (hobo) systems of hybrid dysgenesis in Drosophila melanogaster are independent of each other. Stamatis N, et al. **Genetics** 1989 Oct; 123(2):379–87

Germ–line and somatic recombination induced by in vitro modified P elements in Drosophila melanogaster. Sved JA, et al. **Genetics** 1990 Feb;124(2):331–7

Analysis of the Om(1D) locus in Drosophila ananassae. Tanda S, et al. **Genetics** 1989 Nov;123(3):495–502

Analysis of yeast retrotransposon Ty insertions at the CAN1 locus. Wilke CM, et al. **Genetics** 1989 Dec;123(4):655–65

Analysis of lethal mutations induced in a mutator strain that activates transposable elements in Caenorhabditis elegans. Clark DV, et al. **Genome** 1990 Feb;33(1):109–14

The biology and exploitation of the retrotransposon Ty in Saccharomyces cerevisiae. Garfinkel DJ, et al. **Genome** 1989;31(2):909–19 (54 ref.)

Mobile genetic elements in Drosophila melanogaster (recent experiments). Georgiev GP, et al. **Genome** 1989;31(2):920–8 (13 ref.)

HIV–I replication requires an intact integrase reading frame. Buchow HD, et al. **Hamatol Bluttransfus** 1989;32:402–5

Characterization and zeste reaction of spontaneously reduced transposable elements in Drosophila melanogaster. Lassen C. **Hereditas** 1989;111(2):125–31

Mutation rates in hybrids between sibling species of Drosophila. Coyne JA. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):155–62

The transposable element Tn3 promotes general recombination at the neighboring regions. Kondo K, et al. **Idengaku Zasshi** 1989 Dec;64(6):417–34

Population dynamics of movable genetic elements in Japanese natural populations of Drosophila melanogaster. I. Microevolution of male recombination determinants in experimental populations. Yamaoka S, et al. **Idengaku Zasshi** 1988 Jun;63(3):227–36

A SINE insertion provides information on the divergence of the HLA–DQA1 and HLA–DQA2 genes. Del Pozzo G, et al. **Immunogenetics** 1990;31(4):229–32

The 987P gene cluster in enterotoxigenic Escherichia coli contains an STpa transposon that activates 987P expression. Klaasen P, et al. **Infect Immun** 1990 Mar;58(3):801–7

A method for allelic replacement that uses the conjugative transposon Tn916: deletion of the emm6.1 allele in Streptococcus pyogenes JRS4. Norgren M, et al. **Infect Immun** 1989 Dec;57(12):3846–50

Interruption of capsule production in Streptococcus pneumonia serotype 3 by insertion of transposon Tn916. Watson DA, et al. **Infect Immun** 1990 Sep;58(9):3135–8

Genetic analysis of lipopolysaccharide core biosynthesis by Escherichia coli K–12: insertion mutagenesis of the rfa locus. Austin EA, et al. **J Bacteriol** 1990 Sep;172(9):5312–25

Characterization of an insertion sequence (IS891) of novel structure from the cyanobacterium Anabaena sp. strain M–131. Bancroft I, et al. **J Bacteriol** 1989 Nov; 171(11):5949–54

Nucleotide sequence and insertional inactivation of a Bacillus subtilis gene that affects cell division, sporulation, and temperature sensitivity. Beall B, et al. **J Bacteriol** 1989 Dec; 171(12):6821–34

Use of a conditionally lethal gene in Anabaena sp. strain PCC 7120 to select for double recombinants and to entrap insertion sequences. Cai YP, et al. **J Bacteriol** 1990 Jun; 172(6):3138–45

Insertional mutagenesis of Listeria monocytogenes with a novel Tn917 derivative that allows direct cloning of DNA flanking transposon insertions. Camilli A, et al. **J Bacteriol** 1990 Jul;172(7):3738–44

Altered imino diacid synthesis and transcription in crown gall tumors with transposon Tn5 insertions in the 3' end of the octopine synthase gene. Chang CC, et al. **J Bacteriol** 1989 Nov;171(11):5922–7

Constitutive activation of the fucAO operon and silencing of the divergently transcribed fucPIK operon by an IS5 element in Escherichia coli mutants selected for growth on L–1,2–propanediol. Chen YM, et al. **J Bacteriol** 1989 Nov;171(11):6097–105

Mutagenesis of Bordetella pertussis with transposon Tn5tac1: conditional expression of virulence–associated genes. Cookson BT, et al. **J Bacteriol** 1990 Apr;172(4):1681–7

Membrane association of the Tnp and Inh proteins of IS50R. DeLong A, et al. **J Bacteriol** 1990 Sep;172(9):5516–9

Properties of new Escherichia coli Hfr strains constructed by integration of pSC101–derived conjugative plasmids. François V, et al. **J Bacteriol** 1990 Mar;172(3):1436–40

Cloning, characterization, and complementation of lesions causing acid sensitivity in Tn5–induced mutants of Rhizobium meliloti WSM419. Goss TJ, et al. **J Bacteriol** 1990 Sep;172(9):5173–9

A chromosomal Agrobacterium tumefaciens gene required for effective plant signal transduction. Huang ML, et al. **J Bacteriol** 1990 Apr;172(4):1814–22

Genetic analysis of the pAD1 hemolysin/bacteriocin determinant in Enterococcus faecalis: Tn917 insertional mutagenesis and cloning. Ike Y, et al. **J Bacteriol** 1990 Jan; 172(1):155–63

Introduction of transposon Tn916 DNA into Haemophilus influenzae and Haemophilus parainfluenzae. Kauc L, et al. **J Bacteriol** 1989 Dec;171(12):6625–8

Characterization of IS476 and its role in bacterial spot disease of tomato and pepper [published erratum appears in J Bacteriol 1990 Apr;172(4):2199] Kearney B, et al. **J Bacteriol** 1990 Jan;172(1):143–8

Genetic analysis of the conjugal transfer determinants encoded by the streptococcal broad–host–range plasmid pIP501. Krah ER 3d, et al. **J Bacteriol** 1989 Nov; 171(11):6005–12

Defects in fruiting body development caused by Tn5 lac insertions in Myxococcus xanthus. Kroos L, et al. **J Bacteriol** 1990 Jan;172(1):484–7

Bacterial transposon Tn7 utilizes two different classes of target sites. Kubo KM, et al. **J Bacteriol** 1990 May; 172(5):2774–8

Evolutionary perspectives on multiresistance beta–lactamase transposons. Lafond M, et al. **J Bacteriol** 1989 Dec; 171(12):6423–9

Insertional mutagenesis of a plasmid–borne Escherichia coli rpoB gene reveals alterations that inhibit beta–subunit assembly into RNA polymerase. Landick R, et al. **J Bacteriol** 1990 Jun;172(6):2844–54

Presence of chromosomal elements resembling the composite structure Tn3701 in streptococci. Le Bouguénec C, et al. **J Bacteriol** 1990 Feb;172(2):727–34

Genetic analysis of bacteriophage lambda integrase interactions with arm–type attachment site sequences. Lee EC, et al. **J Bacteriol** 1990 Mar;172(3):1529–38

Direct involvement of IS26 in an antibiotic resistance operon. Lee KY, et al. **J Bacteriol** 1990 Jun;172(6):3229–36

Gene fusions with lacZ by duplication insertion in the radioresistant bacterium Deinococcus radiodurans. Lennon E, et al. **J Bacteriol** 1990 Jun;172(6):2955–61

Mutagenesis of dimeric plasmids by the transposon gamma delta (Tn1000). Liu L, et al. **J Bacteriol** 1990 May; 172(5):2814–6

Topology of the Escherichia coli uhpT sugar–phosphate transporter analyzed by using TnphoA fusions. Lloyd AD, et al. **J Bacteriol** 1990 Apr;172(4):1688–93

Genetic exchange of transposon and integrative plasmid markers in Mycoplasma pulmonis. Mahairas GG, et al. **J Bacteriol** 1990 May;172(5):2267–72

Integration host factor plays a role in IS50 and Tn5 transposition. Makris JC, et al. **J Bacteriol** 1990 Mar; 172(3):1368–73

Analysis of protein localization by use of gene fusions with complementary properties. Manoil C. **J Bacteriol** 1990 Feb; 172(2):1035–42

Structural and functional characterization of tnpI, a recombinase locus in Tn21 and related beta–lactamase transposons. Mercier J, et al. **J Bacteriol** 1990 Jul; 172(7):3745–57

Characterization of transposon insertion out– mutants of Erwinia carotovora subsp. carotovora defective in enzyme export and of a DNA segment that complements out mutations in E. carotovora subsp. carotovora, E. carotovora subsp. atroseptica, and Erwinia chrysanthemi. Murata H, et al. **J Bacteriol** 1990 Jun;172(6):2970–8

Identification, distribution, and sequence analysis of new insertion elements in Caulobacter crescentus. Ohta N, et al. **J Bacteriol** 1990 Jan;172(1):236–42

Transposition in Shigella dysenteriae: isolation and analysis of IS911, a new member of the IS3 group of insertion sequences. Prère MF, et al. **J Bacteriol** 1990 Jul; 172(7):4090–9

Possible insertion sequences in a mosaic genome organization upstream of the exotoxin A gene in Pseudomonas aeruginosa. Pritchard AE, et al. **J Bacteriol** 1990 Apr; 172(4):2020–8

Characterization of insertion sequence IS946, an Iso–ISS1 element, isolated from the conjugative lactococcal plasmid pTR2030. Romero DA, et al. **J Bacteriol** 1990 Aug; 172(8):4151–60

Pseudomonas aeruginosa transposable bacteriophages D3112 and B3 require pili and surface growth for adsorption. Roncero C, et al. **J Bacteriol** 1990 Apr;172(4):1899–904

IS861, a group B streptococcal insertion sequence related to IS150 and IS3 of Escherichia coli. Rubens CE, et al. **J Bacteriol** 1989 Oct;171(10):5531–5

Differential activity of a transposable element in Escherichia coli colonies. Shapiro JA, et al. **J Bacteriol** 1989 Nov; 171(11):5975–86

A cryptic 65–kilobase–pair transposonlike element isolated from Bacteroides uniformis has homology with Bacteroides conjugal tetracycline resistance elements. Shoemaker NB, et al. **J Bacteriol** 1990 Apr;172(4):1694–702

Isolation of Rhizobium phaseoli Tn5–induced mutants with altered expression of cytochrome terminal oxidases o and aa3. Soberón M, et al. **J Bacteriol** 1990 Mar;172(3):1676–80

A tetracycline efflux gene on Bacteroides transposon Tn4400 does not contribute to tetracycline resistance. Speer BS, et al. **J Bacteriol** 1990 Jan;172(1):292–8

Site–specific transposition of insertion sequence IS630. Tenzen T, et al. **J Bacteriol** 1990 Jul;172(7):3830–6

Genetic analysis of an invasion region by use of a Tn3–lac transposon and identification of a second positive regulator gene, invE, for cell invasion of Shigella sonnei: significant homology of invE with ParB of plasmid P1. Watanabe H, et al. **J Bacteriol** 1990 Feb;172(2):619–29

Location of sites of transposon Tn916 insertion in the Mycoplasma mycoides genome. Whitley JC, et al. **J Bacteriol** 1989 Dec;171(12):6870–2

Uncoupling of transpositional immunity from gamma delta transposition by a mutation at the end of gamma delta. Wiater LA, et al. **J Bacteriol** 1990 Sep;172(9):4959–63

Integration host factor increases the transpositional immunity conferred by gamma delta ends. Wiater LA, et al. **J Bacteriol** 1990 Sep;172(9):4951–8

Activation of the lac genes of Tn951 by insertion sequences from Pseudomonas cepacia. Wood MS, et al. **J Bacteriol** 1990 Apr;172(4):1719–24

Mutagenesis of acetobacter methanolicus MB58 with the transposon Tn5. Dobrowolski P, et al. **J Basic Microbiol** 1990;30(4):295–6

New bacteriophage vectors for the large scale production of single stranded insert DNA. Biernat J, et al. **J Biochem Biophys Methods** 1989 Aug–Sep;19(2–3):155–67

Immunoelectron microscopic analysis of the A, B, and HU protein content of bacteriophage Mu transpososomes. Lavoie BD, et al. **J Biol Chem** 1990 Jan 25;265(3):1623–7

The N–terminal domain of the insertion sequence 30 transposase interacts specifically with the terminal inverted repeats of the element. Stalder R, et al. **J Biol Chem** 1990 Mar 5;265(7):3757–62

Insertion of L1 elements into sites that can form non–B DNA. Interactions of non–B DNA–forming sequences. Usdin K, et al. **J Biol Chem** 1989 Dec 5;264(34):20736–43

Apolipoprotein E3–Leiden contains a seven–amino acid insertion that is a tandem repeat of residues 121–127. Wardell MR, et al. **J Biol Chem** 1989 Dec 15; 264(35):21205–10

Transport of divalent cations with tetracycline as mediated by the transposon Tn10–encoded tetracycline resistance protein. Yamaguchi A, et al. **J Biol Chem** 1990 Mar 25; 265(9):4809–13

Metal–tetracycline/H+ antiporter of Escherichia coli encoded by a transposon, Tn10. The role of the conserved dipeptide, Ser65–Asp66, in tetracycline transport. Yamaguchi A, et al. **J Biol Chem** 1990 Sep 15; 265(26):15525–30

Transposon–916–like elements in clinical isolates of Enterococcus faecium. Fletcher HM, et al. **J Gen Microbiol** 1989 Nov;135 (Pt 11):3067–77

Precise excision and instability of the transposon Tn5 in Pseudomonas aeruginosa. Goldberg JB, et al. **J Gen Microbiol** 1990 May;136 (Pt 5):789–96

The virulence plasmid of Salmonella dublin: detailed restriction map and analysis by transposon mutagenesis. Lax AJ, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1117–23

Transposon mutagenesis and complementation of the fructokinase gene in Rhizobium leguminosarum biovar trifolii. McLaughlin RE, et al. **J Gen Microbiol** 1989 Aug; 135 (Pt 8):2329–34

Analysis of separate isolates of Bordetella pertussis repeated DNA sequences. McPheat WL, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1515–20

Transposon–induced non–motile mutants of Vibrio cholerae. Richardson K, et al. **J Gen Microbiol** 1990 Apr;136 (Pt 4):717–25

Characterization of Pseudomonas mercury–resistance transposon Tn502, which has a preferred insertion site in RP1. Stanisich VA, et al. **J Gen Microbiol** 1989 Nov;135 (Pt 11):2909–15

Insertion of the fusion gene from Newcastle disease virus into a non–essential region in the terminal repeats of fowlpox virus and demonstration of protective immunity induced by the recombinant. Boursnell ME, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):621–8

Insertion sequence IS10 anti–sense pairing initiates by an interaction between the 5' end of the target RNA and a loop in the anti–sense RNA. Kittle JD, et al. **J Mol Biol** 1989 Dec 5;210(3):561–72

Identification of a long stretch of homopurine.homopyrimidine sequence in a cluster of retroposons in the human genome. Liu QR, et al. **J Mol Biol** 1990 Apr 5;212(3):453–9

Regulation of IS1 transposition by the insA gene product. Machida C, et al. **J Mol Biol** 1989 Aug 20;208(4):567–74

Mutational analysis of the inverted repeats of Tn3. Nissley DV, et al. **J Mol Biol** 1990 Jun 20;213(4):671–6

Transposition effect of adenine (Dam) methylation on activity of O end mutants of IS50. Tomcsanyi T, et al. **J Mol Biol** 1989 Sep 20;209(2):191–3

Mapping of insertion element IS5 in the Escherichia coli K–12 chromosome. Chromosomal rearrangements mediated by IS5. Umeda M, et al. **J Mol Biol** 1990 May 20;213(2):229–37

Mapping of insertion elements IS1, IS2 and IS3 on the Escherichia coli K–12 chromosome. Role of the insertion elements in formation of Hfrs and F' factors and in rearrangement of bacterial chromosomes. Umeda M, et al. **J Mol Biol** 1989 Aug 20;208(4):601–14

Isolation and sequence analysis of Caenorhabditis briggsae repetitive elements related to the Caenorhabditis elegans transposon Tc1. Harris LJ, et al. **J Mol Evol** 1990 Apr;

30(4):359–69
P-element-mediated enhancer detection allows rapid identification of developmentally regulated genes and cell specific markers in Drosophila. Bellen HJ, et al. J Physiol (Paris) 1990;84(1):33–41
Full length L1 retroposons contain tRNA-like sequences near the 5' termini—hypothesis on the replication mechanism of retroposons. Bertling WM. J Theor Biol 1989 May 22;138(2):185–94
Self-splicing introns as a source for transposable genetic elements. Hickson RE. J Theor Biol 1989 Nov 8; 141(1):1–10 (79 ref.)
Linker insertion mutagenesis of herpesviruses: inactivation of single genes within the Us region of pseudorabies virus. de Wind N, et al. J Virol 1990 Oct;64(10):4691–6
Proviral insertions within the int-2 gene can generate multiple anomalous transcripts but leave the protein-coding domain intact. Dickson C, et al. J Virol 1990 Feb; 64(2):784–93
Characterization of a transpositionally active Ty3 element and identification of the Ty3 integrase protein. Hansen LJ, et al. J Virol 1990 Jun;64(6):2599–607
Duck hepatitis B virus can tolerate insertion, deletion, and partial frameshift mutation in the distal pre-S region. Li JS, et al. J Virol 1989 Nov;63(11):4965–8
Insertion mutation of the int-1 and int-2 loci by mouse mammary tumor virus in premalignant and malignant neoplasms from the GR mouse strain. Morris DW, et al. J Virol 1990 Apr;64(4):1794–802
RNA editing by G-nucleotide insertion in mumps virus P-gene mRNA transcripts. Paterson RG, et al. J Virol 1990 Sep;64(9):4137–45
An insertion of insect cell DNA in the 81-map-unit segment of Autographa californica nuclear polyhedrosis virus DNA. Schetter C, et al. J Virol 1990 Apr;64(4):1844–50
Construction of fowlpox virus vectors with intergenic insertions: expression of the beta-galactosidase gene and the measles virus fusion gene. Spehner D, et al. J Virol 1990 Feb;64(2):527–33
Editing of the Sendai virus P/C mRNA by G insertion occurs during mRNA synthesis via a virus-encoded activity. Vidal S, et al. J Virol 1990 Jan;64(1):239–46
Linker insertion mutants of simian virus 40 large T antigen that show trans-dominant interference with wild-type large T antigen map to multiple sites within the T-antigen gene. Zhu JY, et al. J Virol 1989 Nov;63(11):4777–86
Invertrons, a class of structurally and functionally related genetic elements that includes linear DNA plasmids, transposable elements, and genomes of adeno-type viruses. Sakaguchi K. Microbiol Rev 1990 Mar;54(1):66–74 (72 ref.)
Evolution of the T1 retroposon family in the Anopheles gambiae complex. Besansky NJ. Mol Biol Evol 1990 May; 7(3):229–46
Independent insertion of Alu elements in the human ribosomal spacer and their concerted evolution. Gonzalez IL, et al. Mol Biol Evol 1989 Jul;6(4):413–23
Effects of carriage and expression of the Tn10 tetracycline-resistance operon on the fitness of Escherichia coli K12. Nguyen TN, et al. Mol Biol Evol 1989 May; 6(3):213–25
A retrotransposable element from the mosquito Anopheles gambiae [published erratum appears in Mol Cell Biol 1990 May;10(5):2442] Besansky NJ. Mol Cell Biol 1990 Mar; 10(3):863–71
Enhancer and silencerlike sites within the transcribed portion of a Ty2 transposable element of Saccharomyces cerevisiae. Farabaugh P, et al. Mol Cell Biol 1989 Nov;9(11):4824–34
Gene organization and transcription of TED, a lepidopteran retrotransposon integrated within the baculovirus genome. Friesen PD, et al. Mol Cell Biol 1990 Jun;10(6):3067–77
A rapidly rearranging retrotransposon within the miniexon gene locus of Crithidia fasciculata. Gabriel A, et al. Mol Cell Biol 1990 Feb;10(2):615–24
Characterization of a novel promoter insertion in the c-rel locus. Kabrun N, et al. Mol Cell Biol 1990 Sep; 10(9):4788–94
The Mu1 maize transposable element induces tissue-specific aberrant splicing and polyadenylation in two Adh1 mutants. Ortiz DF, et al. Mol Cell Biol 1990 May; 10(5):2090–5
Mutations in RAD6, a yeast gene encoding a ubiquitin-conjugating enzyme, stimulate retrotransposition. Picologlou S, et al. Mol Cell Biol 1990 Mar;10(3):1017–22
Retroviral and pseudogene insertion sites reveal the lineage of human salivary and pancreatic amylase genes from a single gene during primate evolution. Samuelson LC, et al. Mol Cell Biol 1990 Jun;10(6):2513–20
Deletion of the kinase insert sequence of the platelet-derived growth factor beta-receptor affects receptor kinase activity and signal transduction. Severinsson L, et al. Mol Cell Biol 1990 Feb;10(2):801–9
Evidence that chicken CR1 elements represent a novel family of retroposons. Silva R, et al. Mol Cell Biol 1989 Aug; 9(8):3563–6
Multimeric arrays of the yeast retrotransposon Ty. Weinstock KG, et al. Mol Cell Biol 1990 Jun;10(6):2882–92
Aberrant membrane insertion of a cytoplasmic tail deletion mutant of the hemagglutinin-neuraminidase glycoprotein of Newcastle disease virus. Wilson C, et al. Mol Cell Biol 1990 Feb;10(2):449–57
Localization of sequences required in cis for yeast Ty1 element transposition near the long terminal repeats: analysis of mini-Ty1 elements. Xu H, et al. Mol Cell Biol 1990 Jun;10(6):2695–702
Complete maps of IS1, IS2, IS3, IS4, IS5, IS30 and IS150 locations in Escherichia coli K12. Birkenbihl RP, et al. Mol Gen Genet 1989 Dec;220(1):147–53
DNA damage activates transcription and transposition of yeast Ty retrotransposons. Bradshaw VA, et al. Mol Gen Genet 1989 Sep;218(3):465–74
Ty RNA levels determine the spectrum of retrotransposition events that activate gene expression in Saccharomyces cerevisiae. Curcio MJ, et al. Mol Gen Genet 1990 Jan; 220(2):213–21
Double Ds elements are involved in specific chromosome breakage. Döring HP, et al. Mol Gen Genet 1989 Oct; 219(1–2):299–305
Excision and transposition of two Ds transposons from the bronze mutable 4 derivative 6856 allele of Zea mays L. Dowe MF Jr, et al. Mol Gen Genet 1990 May;221(3):475–85
Structural analysis of Doc transposable elements associated with mutations at the white and suppressor of forked loci of Drosophila melanogaster. Driver A, et al. Mol Gen Genet 1989 Dec;220(1):49–52
Bacteriophage lambda-mediated transposon mutagenesis of phytopathogenic and epiphytic Erwinia species is strain dependent. Ellard FM, et al. Mol Gen Genet 1989 Sep; 218(3):491–8
Complete reversions of a gypsy retrotransposon-induced cut locus mutation in Drosophila melanogaster involving jockey transposon insertions and flanking gypsy sequence deletions. Flavell AJ, et al. Mol Gen Genet 1990 Jan; 220(2):181–5
Novel genes influencing the expression of the yellow locus and mdg4 (gypsy) in Drosophila melanogaster. Georgiev PG, et al. Mol Gen Genet 1989 Dec;220(1):121–6
Mitomycin C induces genomic rearrangements involving transposable elements in Drosophila melanogaster. Georgiev PG, et al. Mol Gen Genet 1990 Jan;220(2):229–33
Cauliflower mosaic virus promoters direct efficient expression of a bacterial G418 resistance gene in Schizosaccharomyces pombe. Gmünder H, et al. Mol Gen Genet 1989 Dec;220(1):95–101
Repeated sequences including RS1100 from Pseudomonas cepacia AC1100 function as IS elements. Haugland RA, et al. Mol Gen Genet 1990 Jan;220(2):222–8
Site-directed insertion mutagenesis with cloned fragments in Escherichia coli by P1 phage transduction. Izuhara M, et al. Mol Gen Genet 1990 Jan;220(2):339–40
A high level of hybrid dysgenesis in Drosophila: high thermosensitivity, dependence on DNA repair, and incomplete cytotype regulation. Margulies L. Mol Gen Genet 1990 Feb;220(3):448–55
A general method for the transfer of plasmid-borne mutant alleles to the chromosome of Klebsiella pneumoniae using bacteriophage lambda: transfer of pqq genes. Meulenberg JJ, et al. Mol Gen Genet 1990 Feb;220(3):481–4
Interstrain crosses enhance excision of Tc1 transposable elements in Caenorhabditis elegans. Mori I, et al. Mol Gen Genet 1990 Jan;220(2):251–5
A genetic and molecular analysis of P-induced mutations at the glucose-6-phosphate dehydrogenase locus in Drosophila melanogaster. Nero D, et al. Mol Gen Genet 1989 Nov;219(3):429–38
Tagging of a maize gene involved in kernel development by an activated Uq transposable element. Pan YB, et al. Mol Gen Genet 1989 Oct;219(1–2):324–7
Mobile elements and transposition events in the cut locus of Drosophila melanogaster. Tchurikov NA, et al. Mol Gen Genet 1989 Oct;219(1–2):241–8
Implications for the cis-requirements for Ds transposition based on the sequence of the wxB4 Ds element. Varagona M, et al. Mol Gen Genet 1990 Feb;220(3):414–8
A Mycoplasma genetic element resembling prokaryotic insertion sequences. Ferrell RV, et al. Mol Microbiol 1989 Jul;3(7):957–67
Structural and functional analysis of the mini-circle, a transposable element of Streptomyces coelicolor A3(2). Henderson DJ, et al. Mol Microbiol 1989 Oct;3(10):1307–18
Genes for biosynthesis and assembly of CS3 pili of CFA/II enterotoxigenic Escherichia coli: novel regulation of pilus production by bypassing an amber codon. Jalajakumari MB, et al. Mol Microbiol 1989 Dec;3(12):1685–95
Transposition of Tn916 to different sites in the chromosome of Neisseria meningitidis: a genetic tool for meningococcal mutagenesis. Kathariou S, et al. Mol Microbiol 1990 May; 4(5):729–35
Mini-Mu mediates deletion-inversions in vivo by intra-transposon transposition. Leach DR, et al. Mol Microbiol 1990 Apr;4(4):561–5
Analysis of the chromosomal location of two copies of a Bordetella pertussis insertion sequence. McPheat WL, et al. Mol Microbiol 1989 Jul;3(7):985–9
Specificity of insertion of IS91, an insertion sequence present in alpha-haemolysin plasmids of Escherichia coli. Mendiola MV, et al. Mol Microbiol 1989 Jul;3(7):979–84
Tn7 inserts in both orientations at a single chromosomal location and apparently forms cointegrates in Pasteurella multocida. Nnalue NA. Mol Microbiol 1990 Jan;4(1):107–17
Structure and function of hot spots providing signals for site-directed specific recombination and gene expression in Tn21 transposons. Schmidt FR, et al. Mol Microbiol 1989 Nov;3(11):1545–55
Analysis of genes coding for the sialic acid-binding adhesin and two other minor fimbrial subunits of the S-fimbrial adhesin determinant of Escherichia coli. Schmoll T, et al. Mol Microbiol 1989 Dec;3(12):1735–44
A novel family of potentially mobile DNA elements encoding site-specific gene-integration functions: integrons. Stokes HW, et al. Mol Microbiol 1989 Dec;3(12):1669–83
The regulatory role of the IS1-encoded InsA protein in transposition. Zerbib D, et al. Mol Microbiol 1990 Mar; 4(3):471–7
The effect of plasmid pKM101 on umuDC gene function enhancing precise excision of transposons. Andreeva IV, et al. Mutat Res 1990 May;230(1):55–60
Comparison of the nucleotide sequences of a yeast gene family. II. Analysis of spontaneous deletions and insertions. Gozalbo D, et al. Mutat Res 1989 Nov;215(1):89–94
Effect of irradiation and mutagenic chemicals on the generation of ADH2- and ADH4-constitutive mutants in yeast: the inducibility of Ty transposition by UV and ethyl methanesulfonate. Morawetz C, et al. Mutat Res 1990 Mar; 229(1):69–77
SLACS retrotransposon from Trypanosoma brucei gambiense is similar to mammalian LINEs. Aksoy S, et al. Nucleic Acids Res 1990 Feb 25;18(4):785–92
Structural features of transposed human VK genes and implications for the mechanism of their transpositions. Borden P, et al. Nucleic Acids Res 1990 Apr 25;18(8):2101–7
Hemophilia B in a male with a four-base insertion that arose in the germline of his mother. Bottema CD, et al. Nucleic Acids Res 1989 Dec 11;17(23):10139
The transposable element Uhu from Hawaiian Drosophila—member of the widely dispersed class of Tc1-like transposons. Brezinsky L, et al. Nucleic Acids Res 1990 Apr 25;18(8):2053–9
The retrotransposon copia controls the relative levels of its gene products post-transcriptionally by differential expression from its two major mRNAs. Brierley C, et al. Nucleic Acids Res 1990 May 25;18(10):2947–51
The complete nucleotide sequence of the Tst1 retrotransposon of potato. Camirand A, et al. Nucleic Acids Res 1990 Aug 25;18(16):4929
Insertional gene synthesis, a novel method of assembling consecutive DNA sequences within specific sites in plasmids. Construction of the HIV-1 tat gene. Ciccarelli RB, et al. Nucleic Acids Res 1990 Mar 11;18(5):1243–8
The effect of E. coli host strain on the consensus sequence of regions of the human L1 transposon. Crowther PJ, et al. Nucleic Acids Res 1989 Sep 25;17(18):7229–39
Amplification of genomic sequences flanking transposable elements in host and heterologous plants: a tool for transposon tagging and genome characterization. Earp DJ, et al. Nucleic Acids Res 1990 Jun 11;18(11):3271–9
Independent regulation of mouse VL30 retrotransposon expression in response to serum and oncogenic cell transformation. Eaton L, et al. Nucleic Acids Res 1990 Apr 25;18(8):2069–77
DNA sequence analysis of five genes; tnsA, B, C, D and E, required for Tn7 transposition. Flores C, et al. Nucleic Acids Res 1990 Feb 25;18(4):901–11
Nucleotide sequence of the blaZ gene of the Staphylococcus aureus beta-lactamase transposon Tn4002. Gillespie MT, et al. Nucleic Acids Res 1989 Nov 11;17(21):8854
Sequence and characteristics of IS900, an insertion element identified in a human Crohn's disease isolate of Mycobacterium paratuberculosis. Green EP, et al. Nucleic Acids Res 1989 Nov 25;17(22):9063–73
Nucleotide sequence of mouse virus-like (VL30) retrotransposon BVL-1. Hodgson CP, et al. Nucleic Acids Res 1990 Feb 11;18(3):673
Selective cloning and sequence analysis of the human L1 (LINE-1) sequences which transposed in the relatively recent past. Hohjoh H, et al. Nucleic Acids Res 1990 Jul 25;18(14):4099–104
Analysis of insertion mutants reveals two new genes in the pNRC100 gas vesicle gene cluster of Halobacterium halobium. Jones JG, et al. Nucleic Acids Res 1989 Oct 11; 17(19):7785–93
Micropia-Dm2, the nucleotide sequence of a rearranged retrotransposon from Drosophila melanogaster. Lankenau DH, et al. Nucleic Acids Res 1990 Jul 25;18(14):4265–6
Molecular evolution of the human Pgk-2 retroposon. McCarrey JR. Nucleic Acids Res 1990 Feb 25;18(4):949–55
Vectors with multiple insertion sites for expression of cloned genes by T7 RNA polymerase: expression of a peptide from EBV thymidine kinase (TK). Mackett M, et al. Nucleic Acids Res 1990 Feb 25;18(4):1082
Complete sequence of IS629. Matsutani S, et al. Nucleic Acids Res 1990 Apr 11;18(7):1899
Recombination mediates production of an extrachromosomal circular DNA containing a transposon-like human element, THE-1. Misra R, et al. Nucleic Acids Res 1989 Oct 25; 17(20):8327–41
Site-specific insertion and deletion mutants in the mer promoter-operator region of Tn501; the nineteen base-pair spacer is essential for normal induction of the promoter by MerR. Parkhill J, et al. Nucleic Acids Res 1990 Sep 11;18(17):5157–62
Site-specific ribosomal DNA insertion elements in Anopheles gambiae and A. arabiensis: nucleotide sequence of gene-element boundaries. Paskewitz SM, et al. Nucleic Acids Res 1989 Oct 25;17(20):8125–33
Nucleotide sequence of IS904 from Lactococcus lactis subsp. lactis strain NIZO R5. Rauch PJ, et al.

Nucleic Acids Res 1990 Jul 25;18(14):4253–4
Simple human DNA–repeats associated with genomic hypervariability, flanking the genomic retroposons and similar to retroviral sites. Rogaev EI.
Nucleic Acids Res 1990 Apr 11;18(7):1879–85
Insertion of an LrDNA gene fragment and of filler DNA at a mitochondrial exon–intron junction in Podospora. Sainsard–Chanet A, et al. Nucleic Acids Res 1990 Feb 25; 18(4):779–83
TcA, the putative transposase of the C. elegans Tc1 transposon, has an N–terminal DNA binding domain. Schukkink RF, et al. Nucleic Acids Res 1990 Feb 25; 18(4):895–900
Quantitative analysis of Tn10 Tet repressor binding to a complete set of tet operator mutants. Sizemore C, et al. Nucleic Acids Res 1990 May 25;18(10):2875–80
IS6110, an IS–like element of Mycobacterium tuberculosis complex. Thierry D, et al. Nucleic Acids Res 1990 Jan 11; 18(1):188
Nucleotide sequence of the erythromycin resistance gene of the conjugative transposon Tn1545. Trieu–Cuot P, et al. Nucleic Acids Res 1990 Jun 25;18(12):3660
Transcriptional activation of cKi–ras proto–oncogene resulting from retroviral promoter insertion. Trusko SP, et al. Nucleic Acids Res 1989 Nov 25;17(22):9259–65
Functional analysis of the long terminal repeats of Drosophila 1731 retrotransposon: promoter function and steroid regulation. Ziarczyk P, et al. Nucleic Acids Res 1989 Nov 11;17(21):8631–44
DNA methylation of maize transposable elements is correlated with activity. Dennis ES, et al.
Philos Trans R Soc Lond [Biol] 1990 Jan 30; 326(1235):217–29
A 10– rather than 9–bp duplication associated with insertion of Tn5 in Escherichia coli K–12. Chu CC, et al.
Plasmid 1989 Nov;22(3):260–4
Tn917 transposition in Lactobacillus plantarum using the highly temperature–sensitive plasmid pTV1Ts as a vector. Cosby WM, et al. Plasmid 1989 Nov;22(3):236–43
Tn4527, a Tp Sp/Sm transposon related to Tn7 and flanked by IS1. Dumans AT, et al. Plasmid 1989 Nov;22(3):256–9
Chromatin structure of transposon Tn903 cloned into a yeast plasmid. Estruch F, et al. Plasmid 1989 Sep;22(2):143–50
Site–specific recombinations between direct and inverted res sites of Tn2501. Michiels T, et al. Plasmid 1989 Nov; 22(3):249–55
Analysis of relative reversion frequencies for IS2 insertion mutations in the regulatory region of the galOPETK operon of Escherichia coli. Musso RE. Plasmid 1989 Nov; 22(3):275–80
Transfer of Tn1545 and Tn916 to Clostridium acetobutylicum. Woolley RC, et al. Plasmid 1989 Sep; 22(2):169–74
A long interspersed repetitive element—the I factor of Drosophila teissieri—is able to transpose in different Drosophila species. Abad P, et al.
Proc Natl Acad Sci U S A 1989 Nov;86(22):8887–91
Provirus insertion in Tpl–1, an Ets–1–related oncogene, is associated with tumor progression in Moloney murine leukemia virus–induced rat thymic lymphomas. Bear SE, et al. Proc Natl Acad Sci U S A 1989 Oct;86(19):7495–9
Primary structures of the heterogeneous nuclear ribonucleoprotein A2, B1, and C2 proteins: a diversity of RNA binding proteins is generated by small peptide inserts. Burd CG, et al. Proc Natl Acad Sci U S A 1989 Dec; 86(24):9788–92
In vitro maturation and encapsidation of the DNA of transposable Mu–like phage D108. Burns CM, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(16):6092–6
Sequences near the termini are required for transposition of the maize transposon Ac in transgenic tobacco plants. Coupland G, et al. Proc Natl Acad Sci U S A 1989 Dec; 86(23):9385–8
Role of instability in the cis action of the insertion sequence IS903 transposase. Derbyshire KM, et al.
Proc Natl Acad Sci U S A 1990 Jun;87(11):4048–52
Potentiation of a polyadenylylation site by a downstream protein–DNA interaction. Dorsett D.
Proc Natl Acad Sci U S A 1990 Jun;87(11):4373–7
Positive control of a global antioxidant defense regulon activated by superoxide–generating agents in Escherichia coli. Greenberg JT, et al. Proc Natl Acad Sci U S A 1990 Aug;87(16):6181–5
Transposition rates of movable genetic elements in Drosophila melanogaster. Harada K, et al.
Proc Natl Acad Sci U S A 1990 Apr;87(8):3248–52
Polyadenylylation signal of the mouse thymidylate synthase gene was created by insertion of an L1 repetitive element downstream of the open reading frame. Harendza CJ, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2531–5
"Site–selected" transposon mutagenesis of Drosophila. Kaiser K, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1686–90
Murine interleukin 2 receptor beta chain: dysregulated gene expression in lymphoma line EL–4 caused by a promoter insertion. Kono T, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1806–10
Long–distance activation of the Myc protooncogene by provirus insertion in Mlvi–1 or Mlvi–4 in rat T–cell lymphomas. Lazo PA, et al.
Proc Natl Acad Sci U S A 1990 Jan;87(1):170–3
Mutational analysis of the N terminus of the protein of maize transposable element Ac. Li MG, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(16):6044–8
Broad spectrum of in vivo forward mutations, hypermutations, and mutational hotspots in a retroviral shuttle vector after a single replication cycle: deletions and deletions with insertions. Pathak VK, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(16):6024–8
Chromosome–breaking structure in maize involving a fractured Ac element. Ralston E, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(23):9451–5
Human immunodeficiency virus integration protein expressed in Escherichia coli possesses selective DNA cleaving activity. Sherman PA, et al. Proc Natl Acad Sci U S A 1990 Jul;87(13):5119–23
Probe mapping to facilitate transposon–based DNA sequencing. Strausbaugh LD, et al.
Proc Natl Acad Sci U S A 1990 Aug;87(16):6213–7
An unusual insertion/deletion in the gene encoding the beta–subunit of propionyl–CoA carboxylase is a frequent mutation in Caucasian propionic acidemia. Tahara T, et al. Proc Natl Acad Sci U S A 1990 Feb;87(4):1372–6
Insertion in the mRNA of a metachromatic leukodystrophy patient with sphingolipid activator protein–1 deficiency. Zhang XL, et al. Proc Natl Acad Sci U S A 1990 Feb; 87(4):1426–30
Involvement of E. coli dcm methylase in Tn3 transposition. Yang MK, et al. Proc Natl Sci Counc Repub China [B] 1989 Oct;13(4):276–83
Cloning Drosophila repair genes by transposon tagging. Boyd JB, et al. Prog Clin Biol Res 1990;340A:205–11
Transposable genetic elements: agents of complex change. Galas DJ. Prog Clin Biol Res 1990;340A:135–44 (28 ref.)
Tn5030: a conjugative transposon conferring clindamycin resistance in Bacteroides species. Halula M, et al.
Rev Infect Dis 1990 Jan–Feb;12 Suppl 2:S235–42
Regulated splicing of the Drosophila P transposable element third intron in vitro: somatic repression. Siebel CW, et al. Science 1990 Jun 8;248(4960):1200–8
I transposable elements and I–R hybrid dysgenesis in Drosophila. Bucheton A. Trends Genet 1990 Jan;6(1):16–21 (36 ref.)
LINEs: a superfamily of retrotransposable ubiquitous DNA elements. Di Nocera PP, et al. Trends Genet 1990 Feb; 6(2):29–30
How maize transposable elements escape negative selection. Gierl A. Trends Genet 1990 May;6(5):155–8 (26 ref.)
SINE and LINE nomenclature [letter] Singer MF.
Trends Genet 1990 Jul;6(7):204
Unstable liaisons: the use of transposons in plant genetic engineering. Spena A. Trends Genet 1990 Mar;6(3):76–7
Sequence comparison of cellular and viral copies of host cell DNA insertions found in Autographa californica nuclear polyhedrosis virus. Beames B, et al. Virology 1990 Feb; 174(2):354–63
The coding region for the 54–kDa protein of several pestiviruses lacks host insertions but reveals a "zinc finger–like" domain. De Moerlooze L, et al. Virology 1990 Aug;177(2):812–5
[Mutation, transfer and location of symbiotic genes of Rhizobium leguminosarum biovar phaseoli by insertion of Tn5–Mob] Wang CL, et al. I Chuan Hsueh Pao 1988; 15(1):25–33 (Eng. Abstr.) (Chi)
[Transpon Tn5 mutagenesis in Citrobacter] Wang AQ, et al. Wei Sheng Wu Hsueh Pao 1990 Apr;30(2):112–6 (Eng. Abstr.) (Chi)
[Structural organization and high transcriptional activity of the mobile genetic element MDG4 in unstable Drosophila melanogaster mutants] Arkhipova IR, et al.
Dokl Akad Nauk SSSR 1990;310(5):1236–9 (Rus)
[Transposon Tn5–induced repair of genetic damage of replication of plasmid RP1 and hybrid derivative of RP1 and RP4 plasmids] Baumanis GE, et al.
Dokl Akad Nauk SSSR 1989;309(2):474–6 (Rus)
[Formation of covalently–bound circular structures of transposon TnV (Tn5–Rep pSC101) during transposition] Borovok IA. Dokl Akad Nauk SSSR 1989;309(3):724–8 (Rus)
[Unusual organization of the leader and terminal regions of Drosophila mobile genetic element mdg1] Cherkasova VA, et al. Dokl Akad Nauk SSSR 1990;310(6):1485–8 (Rus)
[Induction of super–unstable mutations in Drosophila after P–M–hybrid dysgenesis in strains containing a mobile stalker] Georgiev PG. Dokl Akad Nauk SSSR 1990; 310(6):1470–4 (Rus)
[Transposition of a new mobile stalker element in the system of prolonged instability in Drosophila melanogaster] Gerasimova TI, et al. Dokl Akad Nauk SSSR 1990; 310(6):1474–9 (Rus)
[The role of transposons in replication: Tn5 suppresses ts–mutation for plasmid RP1 replication in Escherichia coli cells] Baumanis GE, et al. Genetika 1990 May;26(5):833–41 (Eng. Abstr.) (Rus)
[Localization in the body of the mobile element MDG1 of 2 regions specifically binding with Drosophila nuclear proteins] Cherkasova VA, et al. Genetika 1989 Dec; 25(12):2101–10 (Eng. Abstr.) (Rus)
[Structure and stability of cointegrating plasmids mediated by the IS1 elements in transposon delta Tn9'] Danilevich VN, et al. Genetika 1990 Jan;26(1):18–29 (Eng. Abstr.) (Rus)
[Detection of new genes participating in the trans–regulation of locus yellow of MDG–4 in Drosophila melanogaster] Georgiev PG, et al. Genetika 1989 Aug;25(8):1409–19 (Eng. Abstr.) (Rus)
[Transpositional bursts and chromosome rearrangements in unstable lines of Drosophila] Gerasimova TI, et al.
Genetika 1990 Mar;26(3):399–411 (Eng. Abstr.) (Rus)
[Genetic instability and transposition of mobile element mdg4 in a mutator strain of Drosophila melanogaster] Kim AI, et al. Genetika 1989 Oct;25(10):1747–56 (Eng. Abstr.) (Rus)
[Mobile elements in Drosophila natural populations in Azerbaijan] Lelbovich BA. Genetika 1990 Feb;26(2):241–8 (Eng. Abstr.) (Rus)
[Distribution of Drosophila melanogaster mobile genetic elements along X–chromosome and autosomes] Lelbovich BA. Genetika 1990 May;26(5):817–25 (Eng. Abstr.) (Rus)
[Participation of the uvrD gene in the precise excision of the Tn9 transposon] Mukhamedshin EK, et al. Genetika 1989 Jul;25(7):1160–7 (Eng. Abstr.) (Rus)
[Characteristics of inserted mutations obtained in the P–M hybrid dysgenesis system in the 9F12–10A7 region of the Drosophila melanogaster X–chromosome] Pokholkova GV, et al. Genetika 1989 Oct;25(10):1776–85 (Eng. Abstr.) (Rus)
[Characteristics of structures of Drosophila polytene chromosomes formed by transposable DNA fragments] Semeshin VF, et al. Genetika 1989 Nov;25(11):1968–78 (Eng. Abstr.) (Rus)
[Formation of interdisks from the P–element DNA material in Drosophila polytene chromosomes] Semeshin VF, et al. Genetika 1990 Mar;26(3):448–56 (Eng. Abstr.) (Rus)
[Characteristic features of the structure of co–integrating plasmids and simple insertions formed during transposition of the IS1 element in transposon Tn9'] Danilevich VN, et al. Mol Biol (Mosk) 1989 Sep–Oct;23(5):1279–88 (Eng. Abstr.) (Rus)
[Analysis of the primary structure of DNA sequences flanking MDG1] Kugul'skin VV. Mol Biol (Mosk) 1990 Jan–Feb;24(1):134–9 (Eng. Abstr.) (Rus)
[The effect of various rec–mutations on the frequency of the Tn917 transposition in Bacillus subtilis cells] Gavrilova EV, et al. Mol Gen Mikrobiol Virusol 1989 Oct;(10):38–40 (Eng. Abstr.) (Rus)
[Transposon mutagenesis, elimination and mobilization of plasmids in nitrogen–fixating bacterium Azospirillum brasilense Sp245] Katsy EI, et al.
Mol Gen Mikrobiol Virusol 1990 Feb;(2):29–32 (Eng. Abstr.) (Rus)
[The use of Pseudomonas sp. M plasmid pM3 for the transposon mutagenesis of Erwinia] Titok MA, et al.
Mol Gen Mikrobiol Virusol 1989 Nov;(11):45–8 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Effect of actinomycin on a (TA)6 plasmid insert. Waterloh K, et al. Anticancer Drug Des 1990 Feb;5(1):89–92

GENETICS

The cis–acting DNA sequences required in vivo for bacteriophage Mu helper–mediated transposition and packaging. Harel J, et al. Arch Microbiol 1990;154(1):67–72
The yeast retrotransposon Ty: molecular genetics and exploitation. Kingsman SM, et al. Biotechnology 1989; 13:145–63 (63 ref.)
Synthetic transposons. Narang SA. Biotechnology 1990; 14:227–35 (18 ref.)
Genomic distribution of copia–like transposable elements in somatic tissues and during development of Drosophila melanogaster. Di Franco C, et al. Chromosoma 1989 Dec; 98(6):402–10
Translational suppression in gene expression in retroviruses and retrotransposons. Jacks T.
Curr Top Microbiol Immunol 1990;157:93–124 (107 ref.)
Characterization of bz1 mutants isolated from mutator stocks with high and low numbers of Mu1 elements. Hardeman KJ, et al. Dev Genet 1989;10(6):460–72
Developmental and genetic aspects of Mutator excision in maize. Levy AA, et al. Dev Genet 1989;10(6):520–31
Characterization of the staphylococcal beta–lactamase transposon Tn552. Rowland SJ, et al. EMBO J 1989 Sep; 8(9):2761–73
Movable genetic elements and antibiotic resistance in enterococci. Clewell DB.
Eur J Clin Microbiol Infect Dis 1990 Feb;9(2):90–102 (142 ref.)
Nucleotide sequence analysis of IS256 from the Staphylococcus aureus gentamicin–tobramycin–kanamycin–resistance transposon Tn4001. Byrne ME, et al. Gene 1989 Sep 30;81(2):361–7
Characterization of telomere DNA from Neurospora crassa. Schechtman MG. Gene 1990 Apr 16;88(2):159–65
Excision of one of two defective P elements as the cause of alternate mutational events (sn+ and sne) of the singed bristle allele snw in Drosophila melanogaster. Nitasaka E, et al. Idengaku Zasshi 1988 Aug;63(4):303–12
Double insertion of homogeneously staining regions in chromosome 1 of wild Mus musculus musculus: effects on chromosome pairing and recombination. Borodin PM, et al. J Hered 1990 Mar–Apr;81(2):91–5
Type I (R1) and type II (R2) ribosomal DNA insertions of Drosophila melanogaster are retrotransposable elements closely related to those of Bombyx mori. Jakubczak JL,

et al. **J Mol Biol** 1990 Mar 5;212(1):37–52

Evolution of the neuron-specific alternative splicing product of the c-src proto-oncogene. Raulf F, et al. **J Neurosci Res** 1989 Sep;24(1):81–8

Insertional activation of N-myc by endogenous Moloney-like murine retrovirus sequences in macrophage cell lines derived from myeloma cell line–macrophage hybrids. Setoguchi M, et al. **Mol Cell Biol** 1989 Oct; 9(10):4515–22

Studies on Tn10 transposition and excision in DNA-repair mutants of Salmonella typhimurium. Lorenzo C, et al. **Mutat Res** 1990 Sep;232(1):99–104

The complete sequence of mag, a new retrotransposon in Bombyx mori. Michaille JJ, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):674

Hsp82-neo transposition vectors to study insertional mutagenesis in Drosophila melanogaster and tissue culture cells. Sass H. **Nucleic Acids Res** 1989 Dec 25;17(24):10508

Regulation of the timing of transposable element excision during maize development. Levy AA, et al. **Science** 1990 Jun 22;248(4962):1534–7

[Attacus ricini chromosomal DNA fragments active as prokaryotic promoters in Escherichia coli] Liu XM, et al. **I Chuan Hsueh Pao** 1988;15(2):102–10 (Eng. Abstr.) (Chi)

[The participation of new mobile elements in transposition bursts in Drosophila melanogaster] Gerasimova TI, et al. **Dokl Akad Nauk SSSR** 1990;311(2):474–6 (Rus)

[Intracellular distribution of nucleotide sequences, homologous to mobile dispersed genes] Semin BV. **Genetika** 1989 Jun;25(6):981–92 (Eng. Abstr.) (Rus)

[Conjugation in group A streptococci] Ravdonikas LE. **Vestn Akad Med Nauk SSSR** 1989;(11):49–54 (Eng. Abstr.) (Rus)

PHYSIOLOGY

A genetic approach to demonstrate the role of listeriolysin O in the virulence of Listeria monocytogenes. Mengaud J, et al. **Acta Microbiol Hung** 1989;36(2–3):177–82

Characterization of the Tet M determinants in urogenital and respiratory bacteria. Roberts MC. **Antimicrob Agents Chemother** 1990 Mar;34(3):476–8

Mobilization of Escherichia coli R1 silver-resistance plasmid pJT1 by Tn5-Mob into Escherichia coli C600. Starodub ME, et al. **Biol Met** 1990;3(1):24–7

Genome juggling by transposons: Tam3-induced rearrangements in Antirrhinum majus. Martin C, et al. **Dev Genet** 1989;10(6):438–51 (21 ref.)

Mu1-induced mutant alleles of maize exhibit background-dependent changes in expression and RNA processing. Strommer J, et al. **Dev Genet** 1989;10(6):452–9

Tissue-specific effects of maize bronze gene promoter mutations induced by Ds1 insertion and excision. Sullivan TD, et al. **Dev Genet** 1989;10(6):412–24

The abnormal oocyte phenotype is correlated with the presence of blood transposon in Drosophila melanogaster. Lavorgna G, et al. **Genetics** 1989 Nov;123(3):485–94

Molecular and genetic characterization of Mu transposable elements in Zea mays: behavior in callus culture and regenerated plants. Planckaert F, et al. **Genetics** 1989 Nov; 123(3):567–78

Transposable elements and fitness in Drosophila melanogaster. Mackay TF. **Genome** 1989;31(1):284–95 (89 ref.)

Temperature sensitivity of transposition of class II transposons. Turner AK, et al. **J Gen Microbiol** 1990 Jan; 136 (Pt 1):65–7

Interstitial insertion of varying amounts of ABL-containing genetic material into chromosome 22 in Ph-negative CML. Rassool F, et al. **Leukemia** 1990 Apr;4(4):273–7

Are transposons a cause of ageing? Murray V. **Mutat Res** 1990 Mar;237(2):59–63 (33 ref.)

RADIATION EFFECTS

UV light and ionizing radiations cause programmed death of rat chloroleukaemia cells by inducing retropositions of a mobile DNA element (L1Rn). Servomaa K, et al. **Int J Radiat Biol** 1990 Feb;57(2):331–43

The interaction between X-rays and transposon mobility in Drosophila: hybrid sterility and chromosome loss. Margulies L, et al. **Mutat Res** 1989 Nov;215(1):1–14

DNA MARKERS see **GENETIC MARKERS**

DNA, MITOCHONDRIAL

Diagnosis of Leber's optic neuropathy by means of polymerase chain reaction amplification. Hotta Y, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):601–2

Structural modifications induced by the mtDBP-C protein in the replication origin of Xenopus laevis mitochondrial DNA. Mignotte B, et al. **Biochimie** 1990 Jan;72(1):65–72

The differential overamplification of short sequences in the mitochondrial DNA of rho- petites in Saccharomyces cerevisiae stimulates recombination. Netter P, et al. **Gene** 1989 Nov 15;83(1):25–38

Definition and properties of disequilibria within nuclear-mitochondrial-chloroplast and other nuclear-dicytoplasmic systems. Schnabel A, et al. **Genetics** 1989 Sep;123(1):199–215

Quakes hit California and, perhaps, the central dogma. Jukes TH. **J Mol Evol** 1990 Jan;30(1):1–2

Evolution of the mitochondrial genetic code. II. Reassignment of codon AUA from isoleucine to methionine. Osawa S, et al. **J Mol Evol** 1989 Nov; 29(5):373–80

Mitochondrial DNA deletions and ophthalmoplegia [letter; comment] Sensi A, et al. **N Engl J Med** 1990 Mar 8; 322(10):701 Comment on: N Engl J Med 1989 May 18;320(20):1293–9.

Mitochondrial DNA. Small, beautiful and essential [news] Grivell LA. **Nature** 1989 Oct 19;341(6243):569–71

Human cells lacking mtDNA: repopulation with exogenous mitochondria by complementation. King MP, et al. **Science** 1989 Oct 27;246(4929):500–3

ANALYSIS

Comparison of rDNA and mtDNA in the sibling species Anopheles freeborni and A. hermsi. Collins FH, et al. **Am J Trop Med Hyg** 1990 May;42(5):417–23

Mitochondrial myopathies: clinical and biochemical features of 30 patients with major deletions of muscle mitochondrial DNA. Holt IJ, et al. **Ann Neurol** 1989 Dec;26(6):699–708

Tissue distribution and transmission of mitochondrial DNA deletions in mitochondrial myopathies. Zeviani M, et al. **Ann Neurol** 1990 Jul;28(1):94–7

Are megabats flying primates? Contrary evidence from a mitochondrial DNA sequence. Bennett S, et al. **Aust J Biol Sci** 1988;41(3):327–32

Multiple mitochondrial DNA deletions exist in cardiomyocytes of patients with hypertrophic or dilated cardiomyopathy. Ozawa T, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):830–6

Respiratory-competent yeast mitochondrial DNAs generated by deleting intergenic regions. Pišlkur J. **Gene** 1989 Sep 1;81(1):165–8

Molecular analysis of cytoplasmic genetic variation in Holstein cows. Brown DR, et al. **J Anim Sci** 1989 Aug; 67(8):1926–32

Restriction fragment polymorphism in mitochondrial DNA of Cryptococcus neoformans. Varma A, et al. **J Gen Microbiol** 1989 Dec;135 (Pt 12):3353–62

Differently deleted mitochondrial genomes in maternally inherited chronic progressive external ophthalmoplegia. Tanaka M, et al. **J Inherited Metab Dis** 1989;12(3):359–62

Mitochondrial genome: defects, disease, and evolution. Clarke A. **J Med Genet** 1990 Jul;27(7):451–6

Genetic heterogeneity and mitochondrial DNA heteroplasmy in Leber's hereditary optic neuropathy. Holt IJ, et al. **J Med Genet** 1989 Dec;26(12):739–43

Kearns–Sayre syndrome: different amounts of deleted mitochondrial DNA are present in several autoptic tissues. Ponzetto C, et al. **J Neurol Sci** 1990 May;96(2–3):207–10

Presence of mitochondrial D-loop DNA in scrapie-infected brain preparations enriched for the prion protein. Aiken JM, et al. **J Virol** 1990 Jul;64(7):3265–8

Mitochondrial function and parental sex effect in Huntington's disease [letter] Mann VM, et al. **Lancet** 1990 Sep 22;336(8717):749

Presence of contaminating mitochondrial DNA from host reticulocytes in experimental infections of Plasmodium berghei. Pace T, et al. **Mol Biochem Parasitol** 1989 Nov; 37(1):109–13

Mitochondrial DNA analysis of Exophiala jeanselmei and Exophiala dermatitidis. Kawasaki M, et al. **Mycopathologia** 1990 May;110(2):107–12

Widespread tissue distribution of mitochondrial DNA deletions in Kearns–Sayre syndrome. Shanske S, et al. **Neurology** 1990 Jan;40(1):24–8

The yeast genus Trichosporon spec. LS3;molecular characterization of genomic complexity. Gienow U, et al. **Zentralbl Mikrobiol** 1990;145(1):3–12

[A map of 8 restriction endonucleases and structure of electron microscope of Chinese human mitochondrial DNA] He L, et al. **I Chuan Hsueh Pao** 1988;15(3):215–22 (Eng. Abstr.) (Chi)

[Mitochondrial DNA polymorphism in five species of the genus Macaca] Zhang YP, et al. **I Chuan Hsueh Pao** 1990; 17(1):23–33 (Eng. Abstr.) (Chi)

[Mitochondrial encephalomyopathy] Scarlato G, et al. **Recenti Prog Med** 1989 Dec;80(12):665–72 (Eng. Abstr.) (Ita)

[Chronic progressive external ophthalmoplegia (CPEO) with deleted mitochondrial DNA] Tanno Y, et al. **Rinsho Shinkeigaku** 1989 Sep;29(9):1176–9 (Eng. Abstr.) (Jpn)

DRUG EFFECTS

Evidence for lack of mitochondrial DNA repair following cis-dichlorodiammineplatinum treatment. Singh G, et al. **Cancer Chemother Pharmacol** 1990;26(2):97–100

'Petite' mutagenesis and mitotic crossing-over in yeast by DNA-targeted alkylating agents. Ferguson LR, et al. **Mutat Res** 1989 Dec;215(2):213–22

The 8-hydroxyguanine content of isolated mitochondria increases with lipid peroxidation. Hruszkewycz AM, et al. **Mutat Res** 1990 Jun;244(2):123–8

GENETICS

Oxidative phosphorylation diseases. Disorders of two genomes. Shoffner JM 4th, et al. **Adv Hum Genet** 1990; 19:267–330 (430 ref.)

Mitochondrial DNA polymorphism reveals hidden heterogeneity within some Asian populations. Chakraborty R. **Am J Hum Genet** 1990 Jul;47(1):87–94

Mitochondrial DNA in sickness and in health. Grossman LI. **Am J Hum Genet** 1990 Mar;46(3):415–7 (25 ref.)

A new mitochondrial disease associated with mitochondrial DNA heteroplasmy. Holt IJ, et al. **Am J Hum Genet** 1990 Mar;46(3):428–33

Intraspecific nucleotide sequence differences in the major noncoding region of human mitochondrial DNA. Horai S, et al. **Am J Hum Genet** 1990 Apr;46(4):828–42

Transcription and translation of deleted mitochondrial genomes in Kearns–Sayre syndrome: implications for pathogenesis. Nakase H, et al. **Am J Hum Genet** 1990 Mar; 46(3):418–27

Amerindian mitochondrial DNAs have rare Asian mutations at high frequencies, suggesting they derived from four primary maternal lineages. Schurr TG, et al. **Am J Hum Genet** 1990 Mar;46(3):613–23

Segregation of mitochondrial genomes in a heteroplasmic lineage with Leber hereditary optic neuroretinopathy. Vilkki J, et al. **Am J Hum Genet** 1990 Jul;47(1):95–100

Mitochondria and Leber's hereditary optic neuropathy. Newman NJ, et al. **Am J Ophthalmol** 1990 Jun 15; 109(6):726–30

Restriction fragment length polymorphism of human mitochondrial DNA in a sample population from Apulia (southern Italy). de Benedictis G, et al. **Ann Hum Genet** 1989 Oct;53 (Pt 4):311–8

Mitochondrial DNA polymorphism detected with the restriction enzymes BstNI and BclI in a French Canadian population. Gélinas Y, et al. **Ann Hum Genet** 1989 Oct;53 (Pt 4):319–25

A new genetic polymorphism in the 16S ribosomal RNA gene of human mitochondrial DNA. Mehta AB, et al. **Ann Hum Genet** 1989 Oct;53 (Pt 4):303–10

Mitochondrial DNA polymorphism in four Sardinian villages. Sartoris S, et al. **Ann Hum Genet** 1988 Oct;52 (Pt 4):327–40

Mitochondrial DNA polymorphisms in Italy. III. Population data from Sicily: a possible quantitation of maternal African ancestry. Semino O, et al. **Ann Hum Genet** 1989 May;53 (Pt 2):193–202

Origin and evolution of mitochondrial DNA. Gray MW. **Annu Rev Cell Biol** 1989;5:25–50 (160 ref.)

Restriction enzyme analysis of mitochondrial DNA of the Aspergillus flavus group: A. flavus, A. parasiticus, and A. nomius. Moody SF, et al. **Appl Environ Microbiol** 1990 Aug;56(8):2441–52

Rapid shift in genotype of human mitochondrial DNA in a family with Leber's hereditary optic neuropathy. Bolhuis PA, et al. **Biochem Biophys Res Commun** 1990 Aug 16; 170(3):994–7

Effects of ethidium bromide treatment of mouse cells on expression and assembly of nuclear-coded subunits of complexes involved in the oxidative phosphorylation. Hayashi J, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):216–21

Increase of deleted mitochondrial DNA in the striatum in Parkinson's disease and senescence. Ikebe S, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1044–8

Maternal transmission of mitochondrial DNA in ducks. Lin LY, et al. **Biochem Biophys Res Commun** 1990 Apr 16; 168(1):188–93

Different copy numbers of apparently identically deleted mitochondrial DNA in tissues from a patient with Kearns–Sayre syndrome detected by PCR. Obermaier-Kusser B, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1007–15

Marked decrease of mitochondrial DNA with multiple deletions in a patient with familial mitochondrial myopathy. Otsuka M, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):680–5

Direct sequencing of deleted mitochondrial DNA in myopathic patients. Tanaka M, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):156–63

Multiple deletions in mitochondrial DNA at direct repeats of non-D-loop regions in cases of familial mitochondrial myopathy. Yuzaki M, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1352–7

Intraspecific genetic variability in mitochondrial DNA of the screwworm fly (Cochliomyia hominivorax). Roehrdanz RL. **Biochem Genet** 1989 Oct;27(9–10):551–69

Mitochondrial DNA polymorphism in native Philippine cattle based on restriction endonuclease cleavage patterns. Watanabe T, et al. **Biochem Genet** 1989 Aug;27(7–8):431–8

Genetic relationship among the musk shrews, Suncus murinus Insectivora, inhabiting islands and the continent based on mitochondrial DNA types. Yamagata T, et al. **Biochem Genet** 1990 Apr;28(3–4):185–95

Specific amplification of deleted mitochondrial DNA from a myopathic patient and analysis of deleted region with S1 nuclease. Tanaka-Yamamoto T, et al. **Biochim Biophys Acta** 1989 Nov 2;1009(2):151–5

Mitochondrial and nuclear DNA complementation in the respiratory chain function and defects. Lestienne P. **Biochimie** 1989 Nov–Dec;71(11–12):1115–23 (50 ref.)

Mitochondrial myopathies. Harding AE, et al. **Br Med Bull** 1989 Jul;45(3):760–71 (39 ref.)

An extensively edited mitochondrial transcript in kinetoplastids encodes a protein homologous to ATPase subunit 6. Bhat GJ, et al. **Cell** 1990 Jun 1;61(5):885–94

RNA editing involves indiscriminate U changes throughout precisely defined editing domains. Decker CJ, et al. **Cell** 1990 Jun 15;61(6):1001–11

Maternally transmitted histocompatibility antigen of mice: a hydrophobic peptide of a mitochondrially encoded protein. Loveland B, et al. **Cell** 1990 Mar 23;60(6):971–80

Integration of group II intron bI1 into a foreign RNA by reversal of the self-splicing reaction in vitro. Mörl M, et al. **Cell** 1990 Feb 23;60(4):629–36

Myoclonic epilepsy and ragged-red fiber disease (MERRF) is associated with a mitochondrial DNA tRNA(Lys) mutation. Shoffner JM, et al. **Cell** 1990 Jun 15;61(6):931–7

Deletion mutants are functionally dominant over wild-type mitochondrial genomes in skeletal muscle fiber segments in mitochondrial disease. Shoubridge EA, et al. **Cell** 1990 Jul 13;62(1):43–9

Molecular definition of a mitochondrially encoded mouse minor histocompatibility antigen. Fischer Lindahl K, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 1:563–9 (36 ref.)

Genes for tRNA(Gly), tRNA(His), tRNA(Lys), tRNA(Phe), tRNA(Ser) and tRNA(Tyr) are encoded in Oenothera mitochondrial DNA. Binder S, et al. **Curr Genet** 1990 Apr; 17(4):353–8

The absence of introns in yeast mitochondria does not abolish mitochondrial recombination. Boulet A, et al. **Curr Genet** 1990 Jun;17(6):537–41

Overexpression of the yeast transcriptional activator ADR1 induces mutation of the mitochondrial genome. Cherry JR, et al. **Curr Genet** 1989 May;15(5):311–7

Physical organization of the 18S and 5S ribosomal RNA genes in the mitochondrial genome of rye (Secale cereale L.). Coulthart MB, et al. **Curr Genet** 1990 Apr;17(4):339–46

DNA sequence analysis of the 24.5 kilobase pair cytochrome oxidase subunit I mitochondrial gene from Podospora anserina: a gene with sixteen introns. Cummings DJ, et al. **Curr Genet** 1989 Dec;16(5–6):381–406

The complete DNA sequence of the mitochondrial genome of Podospora anserina. Cummings DJ, et al. **Curr Genet** 1990 May;17(5):375–402

DNA sequence analysis of the apocytochrome b gene of Podospora anserina: a new family of intronic open reading frame. Cummings DJ, et al. **Curr Genet** 1989 Dec; 16(5–6):407–18

Gene organization of the Peking duck mitochondrial genome. Desjardins P, et al. **Curr Genet** 1990 Jun;17(6):515–8

Characterization and sequence of lupin mitochondrial plasmid–like DNA. Gorączniak RM, et al. **Curr Genet** 1989 Dec;16(5–6):469–71

Deletions and rearrangements in Kluyveromyces lactis mitochondrial DNA. Hardy CM, et al. **Curr Genet** 1989 Dec;16(5–6):419–27

Mitochondrial DNA of Physarum polycephalum: physical mapping, cloning and transcription mapping. Jones EP, et al. **Curr Genet** 1990 Apr;17(4):331–7

An internal part of the chloroplast atpA gene sequence is present in the mitochondrial genome of Triticum aestivum: molecular organisation and evolutionary aspects. Jubier MF, et al. **Curr Genet** 1990 Jun;17(6):523–8

A gene for cytochrome c oxidase subunit III (COXIII) in broad bean mitochondrial DNA: structural features and sequence evolution. Macfarlane JL, et al. **Curr Genet** 1990 Jan;17(1):33–40

An ethidium bromide induced mutant of Neurospora crassa defective in mitochondrial DNA. Niagro FD, et al. **Curr Genet** 1989 Oct;16(4):303–5

Mitochondrial DNA of Chlamydomonas reinhardtii: the ND4 gene encoding a subunit of NADH dehydrogenase. Pratje E, et al. **Curr Genet** 1989 Jul;16(1):61–4

The complete and symmetric transcription of the main non coding region of rat mitochondrial genome: in vivo mapping of heavy and light transcripts. Sbisà E, et al. **Curr Genet** 1990 Mar;17(3):247–53

Nucleotide sequence and molecular characterization of plasmid–like DNAs from mitochondria of cytoplasmic male–sterile rice [published erratum appears in Curr Genet 1989 Aug;16(2):129] Shikanai T, et al. **Curr Genet** 1989 May;15(5):349–54

Genic rearrangements in Phytophthora mitochondrial DNA. Shumard–Hudspeth DS, et al. **Curr Genet** 1990 May; 17(5):413–5

Report of the committee on human mitochondrial DNA. Wallace DC. **Cytogenet Cell Genet** 1989;51(1–4):612–21 (117 ref.)

Expression in yeast of the T–urf13 protein from Texas male–sterile maize mitochondria confers sensitivity to methomyl and to Texas–cytoplasm–specific fungal toxins. Huang J, et al. **EMBO J** 1990 Feb;9(2):339–47

Self–splicing of the mobile group II intron of the filamentous fungus Podospora anserina (COI I1) in vitro. Schmidt U, et al. **EMBO J** 1990 Jul;9(7):2289–98

Transcripts of the NADH–dehydrogenase subunit 3 gene are differentially edited in Oenothera mitochondria. Schuster W, et al. **EMBO J** 1990 Jan;9(1):263–9

Disruption of the yeast nuclear PET54 gene blocks excision of mitochondrial intron aI5 beta from pre–mRNA for cytochrome c oxidase subunit I. Valencik ML, et al. **EMBO J** 1989 Dec 1;8(12):3899–904

Increased level of the mitochondrial ND5 transcript in chemically induced rat hepatomas. Corral M, et al. **Exp Cell Res** 1989 Sep;184(1):158–66

Changes in the number of mitochondrial genomes during human development. Heerdt BG, et al. **Exp Cell Res** 1990 Jan;186(1):54–9

Low allozyme and mtDNA variability in the island endemic species Drosophila sechellia (D. melanogaster complex). Cariou ML, et al. **Experientia** 1990 Jan 15;46(1):101–4

Comment: mitochondrial genes and cancer. Hadler HI. **FEBS Lett** 1989 Oct 9;256(1–2):230–2

Comment: mitochondria and carcinogenesis [letter; comment] Quagliariello E, et al. **FEBS Lett** 1990 Jan 29;260(2):318 Comment on: FEBS Lett 1988 Dec 5;241(1–2):1–5.

Mitochondrial mutations may increase oxidative stress: implications for carcinogenesis and aging? Bandy B, et al. **Free Radic Biol Med** 1990;8(6):523–39 (234 ref.)

The Pisum sativum mitochondrial gene encoding cytochrome oxidase subunit I has an unusual transcription pattern. Kemmerer EC, et al. **Gene** 1990 May 14;89(2):157–62

Nucleotide sequence of cloned nad4 (urf4) gene from Chlamydomonas reinhardtii mitochondrial DNA. Ma DP, et al. **Gene** 1989 Dec 28;85(2):363–70

Flexible recognition of rapidly evolving promoter sequences by mitochondrial transcription factor 1. Fisher RP, et al. **Genes Dev** 1989 Dec;3(12B):2202–17

Mitochondrial DNA in the bark weevils: size, structure and heteroplasmy. Boyce TM, et al. **Genetics** 1989 Dec; 123(4):825–36

Length heteroplasmy of sturgeon mitochondrial DNA: an illegitimate elongation model. Buroker NE, et al. **Genetics** 1990 Jan;124(1):157–63

Mitochondrial and nuclear gene dynamics of introduced populations of Lepomis macrochirus. Chapman RW. **Genetics** 1989 Oct;123(2):399–404

The mitochondrial genome organization of a maize fertile cmsT revertant line is generated through recombination between two sets of repeats. Fauron CM, et al. **Genetics** 1990 Feb;124(2):423–8

Recent appearance and molecular characterization of mitochondrial DNA deletions within a defined nematode pedigree. Hyman BC, et al. **Genetics** 1990 Apr; 124(4):845–53

Can mating preferences explain changes in mtDNA haplotype frequencies? MacRae AF, et al. **Genetics** 1990 Apr;124(4):999–1001

Evidence for mitochondrial DNA polymorphism and uniparental inheritance in the cellular slime mold Polysphondylium pallidum: effect of intraspecies mating on mitochondrial DNA transmission. Mirfakhrai M, et al. **Genetics** 1990 Mar;124(3):607–13

Is there selection on RFLP differences in mitochondrial DNA? Nigro L, et al. **Genetics** 1990 Jul;125(3):551–5

Mitochondrial and allozyme genetics of incipient speciation in a landlocked population of Galaxias truttaceus (Pisces: Galaxiidae). Ovenden JR, et al. **Genetics** 1990 Mar; 124(3):701–16

A genetic discontinuity in a continuously distributed species: mitochondrial DNA in the American oyster, Crassostrea virginica. Reeb CA, et al. **Genetics** 1990 Feb;124(2):397–406

Are mitochondrial DNA variants selectively non–neutral? [comment] Singh RS, et al. **Genetics** 1990 Apr;124(4):995–7 Comment on: Genetics 1988 Oct;120(2):485–94.

Geographic variation in human mitochondrial DNA from Papua New Guinea. Stoneking M, et al. **Genetics** 1990 Mar; 124(3):717–33

Intraspecific sequence variation in the mitochondrial genome of rainbow trout (Oncorhynchus mykiss). Beckenbach AT, et al. **Genome** 1990 Feb;33(1):13–5

The role of a conserved dodecamer sequence in yeast mitochondrial gene expression. Butow RA, et al. **Genome** 1989;31(2):757–60

Preferential amplification and molecular characterization of junction sequences of a pathogenetic deletion in human mitochondrial DNA. Johns DR, et al. **Genomics** 1989 Oct; 5(3):623–8

Genetic divergence in mitochondrial DNA between the wood mouse (Apodemus sylvaticus) and the yellow necked mouse (A. flavicollis). Tegelström H, et al. **Hereditas** 1989; 111(1):49–60

Heterogeneity of tempo and mode of mitochondrial DNA evolution among mammalian orders [published erratum appears in Idengaku Zasshi 1989 Oct;64(5):411] Hasegawa M, et al. **Idengaku Zasshi** 1989 Aug;64(4):243–58

Characterization of the inverted duplication in the mitochondrial DNA of Candida albicans. Shaw JA, et al. **J Bacteriol** 1989 Nov;171(11):6353–6

Separate nuclear genes encode sarcomere–specific and ubiquitous human mitochondrial creatine kinase isoenzymes. Haas RC, et al. **J Biol Chem** 1990 Apr 25; 265(12):6921–7

N–terminal deletions of a mitochondrial signal sequence in yeast. Targeting information of delta–aminolevulinate synthase is encoded in non–overlapping regions. Haldi M, et al. **J Biol Chem** 1989 Oct 15;264(29):17107–12

Identification of Neurospora mitochondrial promoters and analysis of synthesis of the mitochondrial small rRNA in wild–type and the promoter mutant [poky]. Kubelik AR, et al. **J Biol Chem** 1990 Mar 15;265(8):4515–26

Identification of the reverse transcriptase encoded by the Mauriceville and Varkud mitochondrial plasmids of Neurospora. Kuiper MT, et al. **J Biol Chem** 1990 Apr 25; 265(12):6936–43

Histidine tRNA from chicken mitochondria has an uncoded 5'–terminal guanylate residue. L'Abbé D, et al. **J Biol Chem** 1990 Feb 15;265(5):2988–92

Mitochondrial DNA copy number is proportional to total cell DNA under a variety of growth conditions. Shay JW, et al. **J Biol Chem** 1990 Sep 5;265(25):14802–7

Cloning and structural characterization of porcine heart aconitase. Zheng L, et al. **J Biol Chem** 1990 Feb 15; 265(5):2814–21

Coordinate reciprocal trends in glycolytic and mitochondrial transcript accumulations during the in vitro differentiation of human myoblasts. Webster KA, et al. **J Cell Physiol** 1990 Mar;142(3):566–73

Juvenile Pearson syndrome. Blaw ME, et al. **J Child Neurol** 1990 Jul;5(3):187–90

Mutations of the mitochondrial DNA: the contribution of DNA techniques to the diagnosis of mitochondrial encephalomyopathies. Gerbitz KD, et al. **J Clin Chem Clin Biochem** 1990 Apr;28(4):241–50

Mitochondrial mutations in neuro–ophthalmological diseases. A review. Morris MA. **J Clin Neuro Ophthalmol** 1990 Sep; 10(3):159–66 (56 ref.)

Familial mitochondrial complex I deficiency with an abnormal mitochondrial encoded protein. Barth PG, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:355–7

DNA sequence analysis of the mitochondrial ND4L–ND5 gene complex from Podospora anserina. Duplication of the ND4L gene within its intron. Cummings DJ, et al. **J Mol Biol** 1990 Mar 20;212(2):269–86

Mitochondrial DNA sequence analysis of the cytochrome oxidase subunit II gene from Podospora anserina. A group IA intron with a putative alternative splice site. Cummings DJ, et al. **J Mol Biol** 1990 Mar 20;212(2):287–94

Sequence and gene organization of the chicken mitochondrial genome. A novel gene order in higher vertebrates. Desjardins P, et al. **J Mol Biol** 1990 Apr 20;212(4):599–634

Three separate mitochondrial DNA sequences are contiguous in human genomic DNA. Kamimura N, et al. **J Mol Biol** 1989 Dec 20;210(4):703–7

Evolution of human mitochondrial DNA: evidence for departure from a pure neutral model of populations at equilibrium. Excoffier L. **J Mol Evol** 1990 Feb;30(2):125–39

Discrepancy in divergence of the mitochondrial and nuclear genomes of Drosophila teissieri and Drosophila yakuba. Monnerot M, et al. **J Mol Evol** 1990 Jun;30(6):500–8

The role of mitochondrial DNA in Huntington's disease. Irwin CC, et al. **J Mol Neurosci** 1989;1(2):129–36

Mitochondrial myopathies: divergences of genetic deletions, biochemical defects and the clinical syndromes. Gerbitz KD, et al. **J Neurol** 1990 Feb;237(1):5–10

Genetic analysis of RNA splicing in yeast mitochondria. Perlman PS. **Methods Enzymol** 1990;181:539–58

Mitochondrial DNA variation and genetic structure in Old–World populations of Drosophila subobscura. Afonso JM, et al. **Mol Biol Evol** 1990 Mar;7(2):123–42

DNA fingerprints from hypervariable mitochondrial genotypes. Avise JC, et al. **Mol Biol Evol** 1989 May; 6(3):258–69

The CO–I and CO–II region of honeybee mitochondrial DNA: evidence for variation in insect mitochondrial evolutionary rates. Crozier RH, et al. **Mol Biol Evol** 1989 Jul;6(4):399–411

Molecular characterization of a repeat element causing large–scale size variation in the mitochondrial DNA of the sea scallop Placopecten magellanicus. La Roche J, et al. **Mol Biol Evol** 1990 Jan;7(1):45–64

The statistical analysis of mitochondrial DNA polymorphisms: chi 2 and the problem of small samples. Roff DA, et al. **Mol Biol Evol** 1989 Sep;6(5):539–45

Colonization of America by Drosophila subobscura: effect of the founder event on the mitochondrial DNA polymorphism. Rozas J, et al. **Mol Biol Evol** 1990 Jan; 7(1):103–9

RPO41–independent maintenance of [rho–] mitochondrial DNA in Saccharomyces cerevisiae. Fangman WL, et al. **Mol Cell Biol** 1990 Jan;10(1):10–5

CBP2 protein promotes in vitro excision of a yeast mitochondrial group I intron. Gampel A, et al. **Mol Cell Biol** 1989 Dec;9(12):5424–33

RNA editing in the cytochrome b locus of the higher plant Oenothera berteriana includes a U–to–C transition. Schuster W, et al. **Mol Cell Biol** 1990 May;10(5):2428–31

Conversion at large intergenic regions of mitochondrial DNA in Saccharomyces cerevisiae. Skelly PJ, et al. **Mol Cell Biol** 1990 Apr;10(4):1530–7

The generation of transplasmic Drosophila simulans by cytoplasmic injection: effects of segregation and selection on the perpetuation of mitochondrial DNA heteroplasmy. de Stordeur E, et al. **Mol Gen Genet** 1989 Dec; 220(1):127–32

Linear kalilo DNA is a Neurospora mitochondrial plasmid that integrates into the mitochondrial DNA. Myers CJ, et al. **Mol Gen Genet** 1989 Dec;220(1):113–20

Sugarbeet mitochondria contain an open reading frame showing extensive sequence homology to the subunit 2 gene of the NADH: ubiquinone reductase complex. Xue YB, et al. **Mol Gen Genet** 1990 Apr;221(2):195–8

Influence of seasonal migration on geographic distribution of mitochondrial DNA haplotypes in humpback whales. Baker CS, et al. **Nature** 1990 Mar 15;344(6263):238–40

RNA editing in plant mitochondria [published erratum appears in 1989 Nov 23;342(6248):460] Covello PS, et al. **Nature** 1989 Oct 19;341(6243):662–6

RNA editing in wheat mitochondria results in the conservation of protein sequences. Gualberto JM, et al.

Nature 1989 Oct 19;341(6243):660–2
Complete replacement of mitochondrial DNA in Drosophila. Niki Y, et al. Nature 1989 Oct 12;341(6242):551–2
Human evolution. The Y of human relationships [news] Smith JM. Nature 1990 Apr 12;344(6267):591–2
Phylogenetic relationships of three Indian murine rats deduced from mitochondrial DNA restriction fragment analysis. Barnabas S. Naturwissenschaften 1989 Oct; 76(10):481–2
Mutations of mitochondrial DNA and human death. Kadenbach B, et al. Naturwissenschaften 1990 May; 77(5):221–5 (56 ref.)
mtDNA deletions in Kearns–Sayre [letter] Johns DR. Neurology 1990 Aug;40(8):1322–3
Novel hybrid maturases in unstable pseudorevertants of maturaseless mutants of yeast mitochondrial DNA. Anziano PQ, et al. Nucleic Acids Res 1990 Jun 11; 18(11):3233–9
Rapid segregation of heteroplasmic bovine mitochondria. Ashley MV, et al. Nucleic Acids Res 1989 Sep 25; 17(18):7325–31
Three copies of a single recombination repeat occur on the 443 kb master circle of the Petunia hybrida 3704 mitochondrial genome. Folkerts O, et al. Nucleic Acids Res 1989 Sep 25;17(18):7345–57
Cloning and sequencing of a fragment of the linear mitochondrial DNA of the yeast Candida parapsilosis supporting genes encoding subunit 8 of Fo ATP synthase and a putative t–RNA(Pro). Guelin E, et al. Nucleic Acids Res 1990 Jul 25;18(14):4267
Sea urchin egg mitochondrial DNA contains a short displacement loop (D–loop) in the replication origin region. Jacobs HT, et al. Nucleic Acids Res 1989 Nov 25; 17(22):8949–65
Organization of the mitochondrial genome of Atlantic cod, Gadus morhua. Johansen S, et al. Nucleic Acids Res 1990 Feb 11;18(3):411–9
Aspartate and asparagine tRNA genes in wheat mitochondrial DNA: a cautionary note on the isolation of tRNA genes from plants. Joyce PB, et al. Nucleic Acids Res 1989 Oct 11;17(19):7865–78
Nucleotide sequence of the cytochrome oxidase subunit I gene from rice mitochondria. Kadowaki K, et al. Nucleic Acids Res 1989 Sep 25;17(18):7519
Sequence of the F0–atpase proteolipid (atp9) gene from rice mitochondria. Kaleikau EK, et al. Nucleic Acids Res 1990 Jan 25;18(2):370
Sequence of the rice mitochondrial gene for cytochrome oxidase subunit 3. Kaleikau EK, et al. Nucleic Acids Res 1990 Jan 25;18(2):371
Sequence of the rice mitochondrial gene for apocytochrome b. Kaleikau EK, et al. Nucleic Acids Res 1990 Jan 25; 18(2):372
Structure and transcription of the mitochondrial genome in heteroplasmic strains of Saccharomyces cerevisiae. Kang YW, et al. Nucleic Acids Res 1989 Nov 11;17(21):8595–609
The basidiomycete Lentinus edodes linear mitochondrial DNA plasmid contains a segment exhibiting a high autonomously replicating sequence activity in Saccharomyces cerevisiae. Katayose Y, et al. Nucleic Acids Res 1990 Mar 25;18(6):1395–400
Cloning and characterization of nuclear genes for two mitochondrial ribosomal proteins in Saccharomyces cerevisiae. Kitakawa M, et al. Nucleic Acids Res 1990 Mar 25;18(6):1521–9
Nucleotide sequence of the F1–ATPase alpha subunit gene of sunflower mitochondria. Köhler RH, et al. Nucleic Acids Res 1990 Aug 11;18(15):4588
Nucleotide sequence of the structural genes for the mitochondrial asp, lys, ser–tRNAs from chicken. Lee YH, et al. Nucleic Acids Res 1989 Nov 25;17(22):9477
Transfer RNAs of potato (Solanum tuberosum) mitochondria have different genetic origins. Maréchal–Drouard L, et al. Nucleic Acids Res 1990 Jul 11;18(13):3689–96
Recombination via flanking direct repeats is a major cause of large–scale deletions of human mitochondrial DNA. Mita S, et al. Nucleic Acids Res 1990 Feb 11;18(3):561–7
Mapping of heteroplasmic mitochondrial DNA deletions in Kearns–Sayre syndrome. Nelson I, et al. Nucleic Acids Res 1989 Oct 25;17(20):8117–24
Sequence–dependent DNA curvature: conformational signal present in the main regulatory region of the rat mitochondrial genome. Pepe G, et al. Nucleic Acids Res 1989 Nov 11;17(21):8803–19
Tandem direct duplications of mitochondrial DNA in mitochondrial myopathy: analysis of nucleotide sequence and tissue distribution. Poulton J, et al. Nucleic Acids Res 1989 Dec 25;17(24):10223–9
Nucleotide sequence of the mitochondrial genome of Paramecium. Pritchard AE, et al. Nucleic Acids Res 1990 Jan 11;18(1):173–80
Analysis of NADH dehydrogenase proteins, ATPase subunit 9, cytochrome b, and ribosomal protein L14 encoded in the mitochondrial DNA of Paramecium. Pritchard AE, et al. Nucleic Acids Res 1990 Jan 11;18(1):163–71
Nucleotide sequence of a full–length cDNA coding for the mitochondrial precursor protein of the beta–subunit of F1–ATPase from Neurospora crassa. Rassow J, et al. Nucleic Acids Res 1990 Aug 25;18(16):4922
Insertion of an LrDNA gene fragment and of filler DNA at a mitochondrial exon–intron junction in Podospora. Sainsard–Chanet A, et al. Nucleic Acids Res 1990 Feb 25; 18(4):779–83
Nucleotide sequence of a maize mitochondrial tRNASer (UGA) gene. Sangare A, et al. Nucleic Acids Res 1989 Oct 11;17(19):7979
Wheat mitochondrial DNA: organization and sequences of the atpA and atp9 genes. Schulte E, et al. Nucleic Acids Res 1989 Sep 25;17(18):7531
Ribosomal protein S14 transcripts are edited in Oenothera mitochondria. Schuster W, et al. Nucleic Acids Res 1990 Jan 25;18(2):229–33
Minor differences in the primary structures of atpA genes coded on the mtDNA of fertile and male sterile sunflower lines. Siculella L, et al. Nucleic Acids Res 1990 Aug 11; 18(15):4599
Characterization of human MRP/Th RNA and its nuclear gene: full length MRP/Th RNA is an active endoribonuclease when assembled as an RNP. Topper JN, et al. Nucleic Acids Res 1990 Feb 25;18(4):793–9
Nucleotide sequence of the gene encoding subunit 3 of cytochrome c oxidase (cox3) in the mitochondrial genome of Schizosaccharomyces pombe strain EF1. Trinkl H, et al. Nucleic Acids Res 1989 Dec 11;17(23):10104
A potato mitochondrial isoleucine tRNA is coded for by a mitochondrial gene possessing a methionine anticodon. Weber F, et al. Nucleic Acids Res 1990 Sep 11; 18(17):5027–30
Nucleotide sequences of mitochondrial ATPase subunit 9 genes from three lines of rice (Oryza sativa L.). Xie Y, et al. Nucleic Acids Res 1990 Jul 25;18(14):4268
Progressive increase of the mutated mitochondrial DNA fraction in Kearns–Sayre syndrome. Larsson NG, et al. Pediatr Res 1990 Aug;28(2):131–6
In vivo rearrangement of mitochondrial DNA in Saccharomyces cerevisiae. Clark–Walker GD. Proc Natl Acad Sci U S A 1989 Nov;86(22):8847–51
Mitochondrial DNA evolution in experimental populations of Drosophila subobscura. Fos M, et al. Proc Natl Acad Sci U S A 1990 Jun;87(11):4198–201
Directly repeated sequences associated with pathogenic mitochondrial DNA deletions. Johns DR, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):8059–62
Mitochondrial genotype of a unisexual salamander of hybrid origin is unrelated to either of its nuclear haplotypes [published erratum appears in Proc Natl Acad Sci U S A 1990 May;87(10):4022] Kraus F, et al. Proc Natl Acad Sci U S A 1990 Mar;87(6):2235–8
Detection of "deleted" mitochondrial genomes in cytochrome–c oxidase–deficient muscle fibers of a patient with Kearns–Sayre syndrome. Mita S, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9509–13
Phylogeny and evolution of antlered deer determined from mitochondrial DNA sequences. Miyamoto MM, et al. Proc Natl Acad Sci U S A 1990 Aug;87(16):6127–31
Spontaneous Kearns–Sayre/chronic external ophthalmoplegia plus syndrome associated with a mitochondrial DNA deletion: a slip–replication model and metabolic therapy. Shoffner JM, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):7952–6
Mitochondrial DNA sequences in single hairs from a southern African population. Vigilant L, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9350–4
A sequence encoding a maturase–related protein in a group II intron of a plant mitochondrial nad1 gene. Wahleithner JA, et al. Proc Natl Acad Sci U S A 1990 Jan;87(2):548–52
Large sequence divergence among mitochondrial DNA genotypes within populations of eastern African black–backed jackals. Wayne RK, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1772–6
Identification of partial mutational sites in human mitochondrial DNA in the Chinese and its significance. Yu MS, et al. Sci China [B] 1989 Apr;32(4):468–77
A genetic test of the natal homing versus social facilitation models for green turtle migration. Meylan AB, et al. Science 1990 May 11;248(4956):724–7
The other human genome [news] Palca J. Science 1990 Sep 7;249(4973):1104–5
[Nucleotide mapping and a kinetic model of a heteroplasmic deletion of 4,666 base pairs from mitochondrial DNA in the Kearns–Sayre syndrome] Nelson I, et al. C R Acad Sci [III] 1989;309(10):403–7 (Eng. Abstr.) (Fre)
[Eve and the mitochondria] Bonard EC. Rev Med Suisse Romande 1990 Jul;110(7):639–40 (Fre)
[The mitochondrial genome and its deletions (letter)] Nitsch J. Dtsch Med Wochenschr 1990 Sep 7;115(36):1373 (Ger)
[The mitochondrial genome and its deletions as a cause of disease] Reichmann H, et al. Dtsch Med Wochenschr 1990 Jun 22;115(25):980–3 (12 ref.) (Ger)
[Ophthalmoplegia–plus: clinical variability, biochemical defects of the mitochondria respiratory chain and deletions of the mitochondria genome] Zierz S, et al. Nervenarzt 1990 Jun;61(6):332–9 (Ger)
[Tumor–specific changes in the mitochondrial genome of oncocytomas] Seitz G, et al. Verh Dtsch Ges Pathol 1989; 73:418–21 (Eng. Abstr.) (Ger)
[Mutations of mitochondrial DNA and their relation to neuromuscular diseases] Wunderlich V. Zentralbl Allg Pathol 1990;136(4):305–16 (41 ref.) (Eng. Abstr.) (Ger)
[Family study on mitochondrial DNA polymorphism] Harihara S, et al. Nippon Hoigaku Zasshi 1989 Jun; 43(3):257–61 (Eng. Abstr.) (Jpn)
[Physiological roles of mtDNA of higher animals] Hayashi J. Tanpakushitsu Kakusan Koso 1990 Mar;35(3):212–24 (52 ref.) (Jpn)
[Mitochondrial encephalomyopathy] Ozawa T, et al. Tanpakushitsu Kakusan Koso 1990 May;35(7 Suppl):1236–45 (Jpn)
[Mitochondrial myopathy and abnormal mitochondrial DNA] Takeshita K. Tanpakushitsu Kakusan Koso 1988 Apr;33(5):834–8 (Jpn)
[Initiation of transcription of the mitochondrial genome of the trypanosomatid Crithidia oncopelti in vitro] Tarasov IA, et al. Dokl Akad Nauk SSSR 1989;307(5):1266–9 (Rus)
[Interaction of nuclear and mitochondrial genomes in yeasts] Mironova LN. Genetika 1989 Jul;25(7):1141–9 (64 ref.) (Eng. Abstr.) (Rus)

ISOLATION & PURIFICATION

A new method for storing animal tissue prior to mtDNA extraction. Nietfeldt JW, et al. Biotechniques 1989 Jan; 7(1):31–2
A rapid protocol for the purification of mitochondrial DNA suitable for studying restriction fragment length polymorphisms [published erratum appears in Gene 1990 Apr 16;88(2):303] Welter C, et al. Gene 1989 Nov 15; 83(1):169–72
A rapid and simple method for the preparation of yeast mitochondrial DNA. Querol A, et al. Nucleic Acids Res 1990 Mar 25;18(6):1657
Isolation of mitochondrial DNA using pulsed field gel electrophoresis. Skelly PJ, et al. Nucleic Acids Res 1989 Sep 25;17(18):7537
[Amplification of mitochondrial DNA fragments from ancient human teeth and bones] Hänni C, et al. C R Acad Sci [III] 1990;310(9):365–70 (Eng. Abstr.) (Fre)
[Isolation and characteristics of mitochondrial DNA from Acremonium chrysogenum] Petiushenko RM, et al. Antibiot Khimioter 1990 Apr;35(4):3–6 (Eng. Abstr.) (Rus)
[Simple methods of isolation of mitochondrial DNA in vertebrates] Brykov VA, et al. Ukr Biokhim Zh 1989 Nov–Dec;61(6):98–102 (Eng. Abstr.) (Rus)

METABOLISM

Preferential binding of cisplatin to mitochondrial DNA and suppression of ATP generation in human malignant melanoma cells. Murata T, et al. Biochem Int 1990; 20(5):949–55
Interactions between the yeast mitochondrial and nuclear genomes: isogenic suppressive and hypersuppressive petites differ in their resistance to the alkaloid lycorine. Massardo DR, et al. Curr Genet 1990 May;17(5):455–7
Distinct genomic copy number in mitochondria of different mammalian organs. Veltri KL, et al. J Cell Physiol 1990 Apr;143(1):160–4
Immunocytological and histochemical correlation in Kearns–Sayre syndrome with mtDNA deletion and partial cytochrome c oxidase deficiency in skeletal muscle. Romero NB, et al. J Neurol Sci 1989 Nov;93(2–3):297–309
Differential effects of cisplatin on mouse hepatic and renal mitochondrial DNA. Maniccia–Bozzo E, et al. Mol Cell Biochem 1990 Apr 18;94(1):83–8
Synthesis and processing of kinetoplast DNA minicircles in Trypanosoma equiperdum. Ryan KA, et al. Mol Cell Biol 1989 Aug;9(8):3212–7
Unstable mitochondrial DNA in natural–death nuclear mutants of Neurospora crassa. Seidel–Rogol BL, et al. Mol Cell Biol 1989 Oct;9(10):4259–64
Age–dependent covalent DNA alterations (I–compounds) in rat liver mitochondrial DNA. Gupta KP, et al. Mutat Res 1990 Jan;237(1):17–27
Independent transfer of mitochondrial chromosomes and plasmids during unstable vegetative fusion in Neurospora. Collins RA, et al. Nature 1990 May 10;345(6271):177–9
Escape of DNA from mitochondria to the nucleus in Saccharomyces cerevisiae. Thorsness PE, et al. Nature 1990 Jul 26;346(6282):376–9

PHYSIOLOGY

Conditioning by mitochondria and energy source of thermal death parameters in yeast. Madeira–Lopes A, et al. J Basic Microbiol 1990;30(4):267–71

ULTRASTRUCTURE

Characterization and comparison of mitochondrial DNAs and rRNAs from Penicillium urticae and P. chrysogenum. Sekiguchi J, et al. J Gen Microbiol 1990 Mar;136 (Pt 3):535–43

DNA MODIFICATION METHYLASES

ANALYSIS

[The absence of DNA methylase activity in Drosophila cells] Mazin AL, et al. Izv Akad Nauk SSSR [Biol] 1989 Nov–Dec;(6):922–5 (Eng. Abstr.) (Rus)

ANTAGONISTS & INHIBITORS

Site–specific inhibition of EcoRI restriction/modification

enzymes by a DNA triple helix. Hanvey JC, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):157–61

GENETICS

Agmenellum quadruplicatum M.AquI, a novel modification methylase. Karreman C, et al. **J Bacteriol** 1990 Jan; 172(1):266–72

Cloning, characterization, and expression in Escherichia coli of the gene coding for the CpG DNA methylase from Spiroplasma sp. strain MQ1(M.SssI). Renbaum P, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1145–52

Cloning and nucleotide sequence of the genes coding for the Sau96I restriction and modification enzymes. Szilák L, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4659–64

METABOLISM

DNA methylation in Neisseria gonorrhoeae and other Neisseriae. Ritchot N, et al. **Gene** 1990 Jan 31;86(1):103–6

CpG frequency–dependence in the activity of eukaryotic DNA methyltransferase: in vitro methylation of CpG–rich islands. Carotti D, et al. **Ital J Biochem** 1989 Nov–Dec; 38(6):379A–382A

The DNA–methylase reaction in evolution and differentiation. Cascio O, et al. **Ital J Biochem** 1990 May–Jun;39(3):164A–165A

Acid–soluble tightly–bound chromatin proteins and DNA methylation. Reale A, et al. **Ital J Biochem** 1989 Nov–Dec; 38(6):392A–394A

Association of histone–like tightly–bound proteins to hypermethylated nucleosomes. Rispoli M, et al. **Ital J Biochem** 1989 Nov–Dec;38(6):389A–392A

Expression and cloning of complementary DNA for a human enzyme that repairs O6–methylguanine in DNA. Hayakawa H, et al. **J Mol Biol** 1990 Jun 20;213(4):739–47

The rat albumin promoter: cooperation with upstream elements is required when binding of APF/HNF1 to the proximal element is partially impaired by mutation or bacterial methylation. Tronche F, et al. **Mol Cell Biol** 1989 Nov;9(11):4759–66

Methylase–limited partial NotI cleavage for physical mapping of genomic DNA. Hanish J, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3287–91

Eukaryotic DNA methylases and their use for in vitro methylation. Adams RL, et al. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1235):189–98

[Studies on DNA methylation in transformed mouse liver cells] He ZX, et al. **Shih Yen Sheng Wu Hsueh Pao** 1989 Dec;22(4):417–21 (Eng. Abstr.) **(Chi)**

[DNA–methylase Sau 3A: isolation and various properties] Lebenka AIu, et al. **Biokhimiia** 1989 Jun;54(6):1009–14 (Eng. Abstr.) **(Rus)**

DNA MODIFICATION METHYLASES (ADENINE–SPECIFIC)

Specific cleavage of the yeast genome at 5'–ATCGATCGAT–3'. Waterbury PG, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9493

ANTAGONISTS & INHIBITORS

Ecori DNA methylase activity is eliminated upon histidine residue modification. Everett EA, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):233–7

Inhibition of EcoRI DNA methylase with cofactor analogs. Reich NO, et al. **J Biol Chem** 1990 May 25;265(15):8966–70

GENETICS

A mutation in the dam gene of Vibrio cholerae: 2–aminopurine sensitivity with intact GATC methylase activity. Bandyopadhyay R, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):561–7

Comparison of the nucleotide and amino acid sequences of the RsrI and EcoRI restriction endonucleases. Stephenson FH, et al. **Gene** 1989 Dec 21;85(1):1–13

Cloning and nucleotide sequence of the gene encoding the EcaI DNA methyltransferase. Brenner V, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):355–9

Purification, cloning and sequence analysis of RsrI DNA methyltransferase: lack of homology between two enzymes, RsrI and EcoRI, that methylate the same nucleotide in identical recognition sequences. Kaszubska W, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10403–25

Sequence motifs characteristic of DNA[cytosine–N4]methyltransferases: similarity to adenine and cytosine–C5 DNA–methylases. Klimasauskas S, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9823–32

Single amino acid changes that alter the DNA sequence specificity of the DNA–[N6–adenine] methyltransferase (Dam) of bacteriophage T4. Miner Z, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8149–57

Nucleotide sequence of the gene encoding the RsrI methyltransferase. Stephenson FH, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10503

ISOLATION & PURIFICATION

[The method of isolation of Sau 6782–type methylases] Arutiunian EE, et al. **Vopr Med Khim** 1990 Mar–Apr; 36(2):75–9 (Eng. Abstr.) **(Rus)**

METABOLISM

Identification of peptides involved in S–adenosylmethionine binding in the EcoRI DNA methylase. Photoaffinity laveling with 8–azido–S–adenosylmethionine. Reich NO, et al. **J Biol Chem** 1990 May 25;265(15):8929–34

The sensitivity of DNA cleavage by SnoI to methylation by M.EcoK. Hofer B, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):8009

Cleavage at the twelve–base–pair sequence 5'–TCTAGATCTAGA–3' using M.XbaI (TCTAGm6A) methylation and DpnI (Gm6A/TC) cleavage. Patel Y, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1603–7

DpnA, a methylase for single–strand DNA in the Dpn II restriction system, and its biological function. Cerritelli S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9223–7

PHYSIOLOGY

Influence of DNA adenine methylase on the sensitivity of Escherichia coli to near–ultraviolet radiation and hydrogen peroxide. Yallaly P, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):64–9

DNA MODIFICATION METHYLASES (CYTOSINE–SPECIFIC)

Direct photolabeling of the EcoRII methyltransferase with S–adenosyl–L–methionine. Som S, et al. **J Biol Chem** 1990 Mar 15;265(8):4278–83

ANALYSIS

[UV– and CD–spectra of restriction endonuclease EcoRII and DNA–methylase EcoRII] Ven'laminov SIu, et al. **Bioorg Khim** 1990 Jan;16(1):47–51 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Cleavage of DNA by HaeII is inhibited by the presence of 5–methylcytosine at the second cytosine within the recognition sequence. Piekarowicz A, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10132

GENETICS

The amino acid sequence of the CCGG recognizing DNA methyltransferase M.BsuFI: implications for the analysis of sequence recognition by cytosine DNA methyltransferases. Walter J, et al. **EMBO J** 1990 Apr; 9(4):1007–13

Characterization of the genetic determinants of SsoII–restriction endonuclease and modification methyltransferase. Karyagina AS, et al. **Gene** 1990 Mar 1;87(1):113–8

Cloning and characterization of the HpaII methylase gene. Card CO, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1377–83

The complete sequence of the Bacillus amyloliquefaciens proviral H2, BamHI methylase gene. Connaughton JF, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4002

Sequence motifs characteristic of DNA[cytosine–N4]methyltransferases: similarity to adenine and cytosine–C5 DNA–methylases. Klimasauskas S, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9823–32

ISOLATION & PURIFICATION

Purification of a DNA methyltransferase from Bacillus natto B3364. Kim EL, et al. **FEBS Lett** 1989 Sep 25;255(2):361–4

[Isolation, purification and properties of restrictase and methylase BstN1 from Bacillus stearothermophilus] Baryshev MM, et al. **Biokhimiia** 1989 Nov;54(11):1894–903 (Eng. Abstr.) **(Rus)**

METABOLISM

In situ methylation of human chromosomes with methylase–AluI. Fernández–Piqueras J, et al. **Cytogenet Cell Genet** 1989;52(1–2):93–4

Involvement of E. coli dcm methylase in Tn3 transposition. Yang MK, et al. **Proc Natl Sci Counc Repub China [B]** 1989 Oct;13(4):276–83

DNA MODIFICATION METHYLTRANSFERASES see **DNA MODIFICATION METHYLASES**

DNA MUTATIONAL ANALYSIS see under **BASE SEQUENCE**

DNA, NEOPLASM

Prognostic significance of DNA content abnormalities in young patients with colorectal cancer. Heimann TM, et al. **Ann Surg** 1989 Dec;210(6):792–5

Programmed cell death during regression of PC–82 human prostate cancer following androgen ablation. Kyprianou N, et al. **Cancer Res** 1990 Jun 15;50(12):3748–53

Alternating purine–pyrimidine tracts may promote chromosomal translocations seen in a variety of human lymphoid tumours. Boehm T, et al. **EMBO J** 1989 Sep; 8(9):2621–31

[Ribosome content, spontaneous damage and repairing DNA synthesis in patients with chronic B–lymphocytic leukemia depending on stage and form of disease] Morozova EO, et al. **Eksp Onkol** 1990;12(3):28–31 (Eng. Abstr.) **(Rus)**

ANALYSIS

Cytochemical assessments of the nuclear DNA distribution pattern by means of image and flow cytometry in thyroid neoplasms and in non–neoplastic thyroid lesions. A comparative methodological study. Wallin G, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):251–8

DNA evaluation in growth hormone producing pituitary adenomas: flow cytometry versus single cell analysis. Hulting AL, et al. **Acta Endocrinol (Copenh)** 1989 Sep; 121(3):317–21

Establishment of a human glioma cell line bearing a homogeneously staining chromosomal region and releasing alpha– and beta–type transforming growth factors. Kanno H, et al. **Acta Neuropathol (Berl)** 1989;79(1):30–6

Nuclear DNA measurements on thyroid carcinoma in young patients. Ekman ET, et al. **Acta Oncol** 1989;28(4):475–9

Flow cytometry DNA ploidy and number of cell populations in the primary breast cancer and their correlation to the prognosis. Ewers SB, et al. **Acta Oncol** 1989;28(6):913–8

DNA flow cytometry in the prediction of survival and response to radiotherapy in head and neck cancer. A review. Joensuu H. **Acta Oncol** 1990;29(4):513–6

Prognostic value of steroid receptor concentration and flow cytometrical DNA measurements in stage I–II endometrial carcinoma. Lindahl B, et al. **Acta Oncol** 1989;28(4):595–9

Single cell DNA cytophotometry in clinical stage I malignant melanoma. Relationship to prognosis. Lindholm C, et al. **Acta Oncol** 1990;29(2):147–50

The prognostic significance of growth pattern and its relation to tumor cell nuclear DNA content in endometrial carcinoma. Moberger B, et al. **Acta Oncol** 1990;29(1):17–23

DNA cytometric and histologic findings in mouse tumors (BP and S 180) with different response to treatment with tumor necrosis factor. Rychly J, et al. **Acta Oncol** 1990; 29(1):47–51

Comparative study of proportion of S–phase cells in ascites and pleural effusions in ovarian carcinoma using antibromodeoxyuridine monoclonal antibody and DNA flow–cytometry. Sahni K, et al. **Acta Oncol** 1989; 28(5):705–8

DNA determination in endometrial carcinoma by flow and image cytometry. Valdes Martin del Campo M, et al. **Acta Oncol** 1989;28(4):607–9

Image cytometry DNA analysis of diethylnitrosamine–induced dysplasias and invasive squamous cell carcinomas of the esophagus in mice. Munck–Wikland E, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):155–60

Nuclear DNA content, histological grade, and clinical course in patients with nonpalpable mammographically detected breast adenocarcinomas. Azavedo E, et al. **Am J Clin Oncol** 1990 Feb;13(1):23–7

Nuclear DNA content in anaplastic giant–cell thyroid carcinoma. Ekman ET, et al. **Am J Clin Oncol** 1989 Oct; 12(5):442–6

Prognostic indicators in node–negative breast cancer. Norman A, et al. **Am J Clin Oncol** 1990 Jun;13(3):269–70

DNA ploidy in pancreatic neuroendocrine tumors. Alanen KA, et al. **Am J Clin Pathol** 1990 Jun;93(6):784–8

A prospective comparison of DNA quantitation by image and flow cytometry. Bauer TW, et al. **Am J Clin Pathol** 1990 Mar;93(3):322–6

Deoxyribonucleic acid ploidy and cell cycle analysis of colorectal carcinoma by flow cytometry. A prospective study of 137 cases using fresh whole cell suspensions. Hood DL, et al. **Am J Clin Pathol** 1990 May;93(5):615–20

Image analysis confirmation of DNA aneuploidy in flow cytometric DNA distributions having a wide coefficient of variation of the G0/G1 peak. McFadden PW, et al. **Am J Clin Pathol** 1990 May;93(5):637–42

DNA content and proliferative activity of cystosarcoma phyllodes of the breast. Potential prognostic significance. el–Naggar AK, et al. **Am J Clin Pathol** 1990 Apr; 93(4):480–5

DNA content and proliferative index in cutaneous squamous cell carcinoma and keratoacanthoma. Randall MB, et al. **Am J Clin Pathol** 1990 Feb;93(2):259–62

DNA quantitation by image cytometry of touch preparations from fresh and frozen tissue. Suit PF, et al. **Am J Clin Pathol** 1990 Jul;94(1):49–53

Nuclear DNA content as a prognostic factor in T1–2N0 breast cancer. Toikkanen S, et al. **Am J Clin Pathol** 1990 Apr;93(4):471–9

Cutaneous lymphoepithelioid lymphoma (Lennert's lymphoma). Combined immunohistological, ultrastructural, and DNA–flow–cytometric analysis. Kiesewetter F, et al. **Am J Dermatopathol** 1989 Dec;11(6):549–54

Comparative assessment of proliferation and DNA content in breast carcinoma by image analysis and flow cytometry. Dawson AE, et al. **Am J Pathol** 1990 May;136(5):1115–24

Significance of DNA content abnormalities in small rectal cancers. Heimann TM, et al. **Am J Surg** 1990 Feb; 159(2):199–202; discussion 202–3

Flow cytometric DNA analysis of primary and concurrent metastatic squamous cell carcinoma of the head and neck. Kim JA, et al. **Am J Surg** 1989 Oct;158(4):288–91

Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells. McGowan PF, et al. **Am J Surg** 1990 Jan;159(1):172–6; discussion 176–7

Cellular DNA profiles of benign and malignant adrenocortical tumors. Cibas ES, et al.

Am J Surg Pathol 1990 Oct;14(10):948–55
Detection of human papillomavirus DNA in penile lesions histologically negative for condylomata. Analysis by in situ hybridization and the polymerase chain reaction. Nuovo GJ, et al. **Am J Surg Pathol** 1990 Sep;14(9):829–36
DNA quantification in colorectal carcinoma using flow and image analysis cytometry. Fausel RE, et al. **Anal Quant Cytol Histol** 1990 Feb;12(1):21–7
Methodologic aspects of DNA assessment by means of image cytometry in tumors of the salivary glands. A comparison between the results obtained using sections and cytospin preparations from the same paraffin-embedded specimens. Schimmelpenning H, et al. **Anal Quant Cytol Histol** 1989 Dec;11(6):379–83
Quantitative DNA patterns in human preneoplastic breast lesions. Teplitz RL, et al. **Anal Quant Cytol Histol** 1990 Apr;12(2):98–102
Reproducibility and comparison of quantitative DNA histogram features obtained with a scanning microdensitometer and a flow cytometer in breast cancers. Uyterlinde AM, et al. **Anal Quant Cytol Histol** 1989 Oct; 11(5):353–60
DNA ploidy in breast lesions. A comparative study using two commercial image analysis systems and flow cytometry. Wilbur DC, et al. **Anal Quant Cytol Histol** 1990 Feb;12(1):28–34
Two-color multiparametric method for flow cytometric DNA analysis of carcinomas using staining for cytokeratin and leukocyte-common antigen. Zarbo RJ, et al. **Anal Quant Cytol Histol** 1989 Dec;11(6):391–402
Nuclear DNA content and nuclear atypia. Relation to survival in patients with breast adenocarcinoma and serious ovarian tumors. Erhardt K, et al. **Anticancer Res** 1989 Sep–Oct;9(5):1325–30
The reproducibility of flow cytometric analyses in human tumors. Methodological aspects. Heiden T, et al. **Anticancer Res** 1990 Jan–Feb;10(1):49–54
A rapid fluorometric method for semiautomated determination of cytotoxicity and cellular proliferation of human tumor cell lines in microculture. Larsson R, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1111–9
Unexpected nonrandom mitochondrial DNA segregation in human cell hybrids. Shay JW, et al. **Anticancer Res** 1990 Mar–Apr;10(2A):279–84
Age, menopausal status and DNA-content in endometrial adenocarcinoma. Strang P, et al. **Anticancer Res** 1989 Jul–Aug;9(4):1079–82
DNA cytometry and morphometry by TV based image analysis system (TAS) in the diagnosis of gastric carcinoma. Sugár J, et al. **Anticancer Res** 1990 Jan–Feb;10(1):237–9
Relationship of the 1 alpha, 25-dihydroxyvitamin D3 receptor concentration and the DNA content in renal cell carcinomas. Trydal T, et al. **Anticancer Res** 1989 Nov–Dec; 9(6):1951–5
Flow cytometric analysis of DNA content of deparaffinized nuclei in urinary bladder carcinomas. Comparison of different isolation methods and relation to histological grade and stage. Malmström PU, et al. **APMIS** 1989 Sep; 97(9):811–9
A comparison between stereological estimates of mean nuclear volume and DNA flow cytometry in bladder tumours. Nielsen K, et al. **APMIS** 1989 Oct;97(10):949–56
DNA-index and stereological estimation of nuclear volume in primary and metastatic malignant melanomas: a comparative study with analysis of heterogeneity. Sørensen FB, et al. **APMIS** 1990 Jan;98(1):61–70
Methodological aspects on cytochemical DNA assessment of adenocarcinoma of the endometrium by means of image and flow cytometry using conventionally formalin-fixed and paraffin-embedded specimens. Askensten U, et al. **Arch Geschwulstforsch** 1990;60(3):209–16
The use of microfluorometry to study DNA in nasopharyngeal carcinomas: a possible prognostic tool? Caliceti U, et al. **Arch Otorhinolaryngol** 1989;246(5):365–7
The relationship between nuclear DNA content in salivary gland tumors and prognosis. Comparison of mucoepidermoid tumors and acinic cell tumors. Hamper K, et al. **Arch Otorhinolaryngol** 1989;246(5):328–32
HER-2/neu oncogene expression and DNA ploidy analysis in breast cancer. Bacus SS, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):164–9
Biclonal composite lymphoma. A multiparameter flow cytometric analysis [see comments] Duque RE, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):176–9 Comment in: Arch Pathol Lab Med 1990 Jul;114(7):638.
Amplification of the c-erb B-2 oncogene and prognosis of breast adenocarcinoma. Heintz NH, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):160–3
Prospective study of concurrent ploidy analysis and routine cytopathology in body cavity fluids. Sinton EB, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):188–94
Stage B prostate adenocarcinoma. Flow cytometric nuclear DNA ploidy analysis. Montgomery BT, et al. **Arch Surg** 1990 Mar;125(3):327–31
DNA content in high and intermediate grade non-Hodgkin's lymphoma–prognostic significance and clinicopathological correlations. Cowan RA, et al. **Br J Cancer** 1989 Dec; 60(6):904–10
Flow cytometric analysis of DNA content in human ovarian cancers. Erba E, et al. **Br J Cancer** 1989 Jul;60(1):45–50
DNA index, S-phase fraction, histological grade and prognosis in breast cancer. O'Reilly SM, et al. **Br J Cancer** 1990 May;61(5):671–4
DNA flow cytometry of breast cancer fine needle aspirates [letter; comment] Remvikos Y. **Br J Cancer** 1990 Feb; 61(2):343–4 Comment on: Br J Cancer 1989 May;59(5):688–91.
Carcinoma of the anal canal and flow cytometric DNA analysis. Scott NA, et al. **Br J Cancer** 1989 Jul;60(1):56–8
The prognostic significance of nuclear DNA content in invasive breast cancer—a study with long-term follow-up. Toikkanen S, et al. **Br J Cancer** 1989 Nov;60(5):693–700
Development of a highly sensitive assay, based on the polymerase chain reaction, for rare B-lymphocyte clones in a polyclonal population. Brisco MJ, et al. **Br J Haematol** 1990 Jun;75(2):163–7
Bone marrow trephine biopsies as a source of nucleic acids for molecular diagnosis of haematological neoplasms. Fey MF, et al. **Br J Haematol** 1990 Feb;74(2):229–31
DNA-determination in the clinical management of patients with meningioma or haemangioblastoma. Mathiesen T, et al. **Br J Neurosurg** 1989;3(5):575–81
Will chromosome karyotyping of meningiomas aid prediction of tumour recurrence? Strachan R, et al. **Br J Neurosurg** 1989;3(5):583–9
Flow cytometry analysis of leucocytes infiltrating bladder tumours according to grade and urothelial cell DNA content. Hijazi A, et al. **Br J Urol** 1989 Sep;64(3):245–9
Comparison of morphometry and DNA flow cytometry with standard prognostic factors in bladder cancer. Lipponen PK, et al. **Br J Urol** 1990 Jun;65(6):589–97
Genomic DNA analysis of the estrogen receptor gene in breast cancer. Parl FF, et al. **Breast Cancer Res Treat** 1989 Oct;14(1):57–64
Independent prognostic value of ploidy in colorectal cancer. A prospective study using image cytometry. Albe X, et al. **Cancer** 1990 Sep 15;66(6):1168–75
DNA cytofluorometric and nuclear morphometric analyses of lung adenocarcinoma. Asamura H, et al. **Cancer** 1989 Oct 15;64(8):1657–64
The prognostic significance of nuclear DNA content in malignant epithelial tumors of the ovary. Brescia RJ, et al. **Cancer** 1990 Jan 1;65(1):141–7
Intratumoral heterogeneity of DNA content in lung cancer. Carey FA, et al. **Cancer** 1990 May 15;65(10):2266–9
Influence of human papillomavirus on DNA ploidy determination in genital condylomas. Chacho MS, et al. **Cancer** 1990 May 15;65(10):2291–4
The biopathologic characteristics of DNA content of hepatocellular carcinomas. Cong WM, et al. **Cancer** 1990 Aug 1;66(3):498–501
Prognostic significance of the DNA content of renal carcinoma. deKernion JB, et al. **Cancer** 1989 Oct 15; 64(8):1669–73
Nuclear DNA content and survival in medullary thyroid carcinoma. Swedish Medullary Thyroid Cancer Study Group. Ekman ET, et al. **Cancer** 1990 Feb 1;65(3):511–7
Kaposi's sarcoma in patients with acquired immune deficiency syndrome. A flow cytometric DNA analysis of 26 lesions in 21 patients. Fukunaga M, et al. **Cancer** 1990 Aug 15;66(4):758–64
Cytophotometric DNA measurements in medullary thyroid carcinoma. Galera-Davidson H, et al. **Cancer** 1990 May 15;65(10):2255–60
Renal cell carcinoma. A clinicopathologic and DNA flow cytometric analysis of 103 cases. Grignon DJ, et al. **Cancer** 1989 Nov 15;64(10):2133–40
Primary sarcomas of the kidney. A clinicopathologic and DNA flow cytometric study of 17 cases. Grignon DJ, et al. **Cancer** 1990 Apr 1;65(7):1611–8
Human papillomaviruses and the pathogenesis of cervical neoplasia. A study by in situ hybridization. Gupta JW, et al. **Cancer** 1989 Nov 15;64(10):2104–10
DNA alterations at proto-oncogene loci and their clinical significance in operable non-small cell lung cancer. Hajj C, et al. **Cancer** 1990 Aug 15;66(4):733–9
Flow cytometric analysis of granulosa tumors. Hitchcock CL, et al. **Cancer** 1989 Nov 15;64(10):2127–32
Prognostic and therapeutic significance of the flow cytometric nuclear DNA content in non-small cell lung cancer. Isobe H, et al. **Cancer** 1990 Mar 15;65(6):1391–5
Biologic progression in non-Hodgkin's lymphoma. A flow cytometric study. Joensuu H, et al. **Cancer** 1990 Jun 1; 65(11):2564–71
DNA content in prostatic adenocarcinoma. A flow cytometry study of the predictive value of aneuploidy for tumor volume, percentage Gleason grade 4 and 5, and lymph node metastases. Jones EC, et al. **Cancer** 1990 Aug 15;66(4):752–7
Is DNA ploidy an independent prognostic indicator in infiltrative node-negative breast adenocarcinoma? Keyhani-Rofagha S, et al. **Cancer** 1990 Apr 1;65(7):1577–82
Prognostic value of flow cytometric DNA content analysis in granulosa cell tumor of the ovary. Klemi PJ, et al. **Cancer** 1990 Mar 1;65(5):1189–93
The relevance of the DNA index and proliferation rate in the grading of benign and malignant soft tissue tumors. Kroese MC, et al. **Cancer** 1990 Apr 15;65(8):1782–8
Prognostic significance of flow cytometric DNA analysis in node-negative breast cancer patients. Lewis WE. **Cancer** 1990 May 15;65(10):2315–20
Ploidy, proliferative activity and prognosis. DNA flow cytometry of solid tumors. Merkel DE, et al. **Cancer** 1990 Mar 1;65(5):1194–205 (133 ref.)
Synovial sarcoma. A DNA flow cytometric study. el-Naggar AK, et al. **Cancer** 1990 May 15;65(10):2295–300
Flow cytometric DNA analysis of parathyroid tumors with special reference to its diagnostic and prognostic value in parathyroid carcinoma. Obara T, et al. **Cancer** 1990 Apr 15;65(8):1789–93
Prognostic value of S-phase fraction and DNA ploidy studied with in vivo administration of bromodeoxyuridine on human gastric cancers. Ohyama S, et al. **Cancer** 1990 Jan 1;65(1):116–21
Flow DNA analysis in the characterization of carcinoma of the renal pelvis and ureter. Oldbring J, et al. **Cancer** 1989 Nov 15;64(10):2141–5
Flow cytometric DNA analysis of squamous cell carcinoma of the esophagus. Ruol A, et al. **Cancer** 1990 Mar 1; 65(5):1185–8
A cell culture, chromosomal and quantitative DNA analysis of a metastatic epithelioid sarcoma. Deletion 1p, a possible primary chromosomal abnormality in epithelioid sarcoma. Stenman G, et al. **Cancer** 1990 May 1;65(9):2006–13
Regional ploidy variations in signet ring cell carcinomas of the stomach. Sugihara H, et al. **Cancer** 1990 Jan 1; 65(1):122–9
A comparative analysis of nuclear DNA content and N-myc gene amplification in neuroblastoma. Taylor SR, et al. **Cancer** 1990 Mar 15;65(6):1360–6
Targeted cytogenetic analysis of gastric tumors by in situ hybridization with a set of chromosome-specific DNA probes. van Dekken H, et al. **Cancer** 1990 Aug 1;66(3):491–7
Flow cytometric DNA analysis after immunoselection of bladder tumor cells with monoclonal antibody DU83.21. Wright GL Jr, et al. **Cancer** 1990 Sep 15;66(6):1242–52
A common cytogenetic abnormality and DNA content alterations in dedifferentiated chondrosarcoma. Zalupski MM, et al. **Cancer** 1990 Sep 15;66(6):1176–82
Absence of detectable deletions in the mitochondrial genome of human colon tumors. Heerdt BG, et al. **Cancer Commun** 1990;2(3):109–11
Cytogenetic and quantitative DNA analysis of primary and xenografted human osteosarcomas. Mandahl N, et al. **Cancer Genet Cytogenet** 1989 Oct 1;42(1):27–34
Karyotyping and DNA flow cytometry of metastatic ovarian yolk sac tumor. Vos A, et al. **Cancer Genet Cytogenet** 1990 Feb;44(2):223–8
DNA flow cytometry and other prognostic factors in breast cancer. McGuire WL. **Cancer Invest** 1990;8(2):245–6
Identification of a nuclear matrix-associated region of the c-myc protooncogene and its recognition by a nuclear protein in the human leukemia HL-60 cell line. Chou RH, et al. **Cancer Res** 1990 Jun 1;50(11):3199–206
Comparison of DNA aneuploidy of primary and metastatic spontaneous canine osteosarcomas. Fox MH, et al. **Cancer Res** 1990 Oct 1;50(19):6176–8
Mutational analysis of the H-ras oncogene in spontaneous C57BL/6 x C3H/He mouse liver tumors and tumors induced with genotoxic and nongenotoxic hepatocarcinogens. Fox TR, et al. **Cancer Res** 1990 Jul 1;50(13):4014–9
Clinical cancer progression in urinary bladder tumors evaluated by multiparameter flow cytometry with monoclonal antibodies. Laval University Urology Group. Fradet Y, et al. **Cancer Res** 1990 Jan 15;50(2):432–7
Molecular cloning of complementary DNAs encoding alkaline phosphatase in human colon cancer cells. Gum JR, et al. **Cancer Res** 1990 Feb 15;50(4):1085–91
Joining of the c-myc gene and a line 1 family member on chromosome 8 in a human primary giant cell carcinoma of the lung. Iizuka M, et al. **Cancer Res** 1990 Jun 1; 50(11):3345–50
Expression of rat microsomal epoxide hydrolase gene during liver chemical carcinogenesis. Kondo S, et al. **Cancer Res** 1990 Oct 1;50(19):6222–8
Flow and image cytometric DNA analysis in rhabdomyosarcoma. Kowal-Vern A, et al. **Cancer Res** 1990 Sep 15;50(18):6023–7
DNA in situ sensitivity to denaturation as a marker of human breast tumors. Kunicka JE, et al. **Cancer Res** 1989 Nov 15;49(22):6347–51
Expression of a Nagao-type, phosphatidylinositol-glycan anchored alkaline phosphatase in human choriocarcinomas. Lowe ME, et al. **Cancer Res** 1990 Jul 1;50(13):3956–62
Flow cytometric DNA ploidy analysis of feline mammary tumors. Minke JM, et al. **Cancer Res** 1990 Jul 1; 50(13):4003–7
Two chromosomal locations for human ornithine decarboxylase gene sequences and elevated expression in colorectal neoplasia. Radford DM, et al. **Cancer Res** 1990 Oct 1;50(19):6146–53
Assessment of clonality in human tumors: a review. Wainscoat JS, et al. **Cancer Res** 1990 Mar 1;50(5):1355–60 (89 ref.)
A human hepatocellular carcinoma 3.0-kilobase DNA sequence transforms both rat liver cells and NIH3T3 fibroblasts and encodes a 52-kilodalton protein. Yang SS, et al. **Cancer Res** 1990 Sep 1;50(17 Suppl):5658S–5667S
Polycyclic aromatic hydrocarbon-DNA adducts in lung tissue from lung cancer patients. van Schooten FJ, et al. **Carcinogenesis** 1990 Sep;11(9):1677–81
Is there an accumulation of cells during G2 in some acute lymphoblastic leukaemias? Ffrench M, et al. **Cell Tissue Kinet** 1990 Jul;23(4):251–60
DNA flow cytometric studies of 66 human lung tumors

analyzed before treatment. Prognostic implications. Salvati F, et al. **Chest** 1989 Nov;96(5):1092–8

Small hepatocellular carcinoma. DNA content and biological characteristics. Cong WM, et al. **Chin Med J [Engl]** 1989 Oct;102(10):783–5

Metastatic abilities of murine sarcomas and carcinomas. II. Relationship to cell volume and DNA index. Volpe JP, et al. **Clin Exp Metastasis** 1990 Mar–Apr;8(2):193–201

The pretreatment DNA labelling index of the blast cells of patients with acute lymphoblastic leukaemia as a prognostic factor in the outcome of treatment: the concept of 'G-0 acute leukaemia'. Béjar-Lozano C, et al. **Clin Lab Haematol** 1989;11(4):339–48

Squamous cell carcinoma of the oral cavity. A review of 176 cases with application of malignancy grading and DNA measurements. Tytor M, et al. **Clin Otolaryngol** 1990 Jun; 15(3):235–52

DNA minisatellites demonstrate somatic DNA changes in most human bladder cancers. Uchida T, et al. **Cytogenet Cell Genet** 1990;53(1):61–3

Statistical evaluation of cell kinetic data from DNA flow cytometry (FCM) by the EM algorithm. Baldetorp B, et al. **Cytometry** 1989 Nov;10(6):695–705

Measurement of DNA and antigen expression of live cells using three fluorochromes and two detectors. Davies CL, et al. **Cytometry** 1990;11(4):533–8

Influence of smear preparation and fixatives on the DNA ploidy and the morphonuclear features of the MXT mammary tumor and normal tissues in the mouse. de Launoit Y, et al. **Cytometry** 1990;11(6):691–9

Flow cytometric analysis of DNA content and keratins by using CK7, CK8, CK18, CK19, and KL1 monoclonal antibodies in benign and malignant human breast tumors. Ferrero M, et al. **Cytometry** 1990;11(6):716–24

Effect of sonication on paraffin-embedded tissue preparation for DNA flow cytometry. Gonchoroff NJ, et al. **Cytometry** 1990;11(5):642–6

Rapid in vitro bromodeoxyuridine labeling method for monitoring of therapy response in solid human tumors. Hemmer J. **Cytometry** 1990;11(5):603–9

Intracellular pH, esterase activity, and DNA measurements of human lung carcinomas by flow cytometry. Liewald F, et al. **Cytometry** 1990;11(3):341–8

Bromodeoxyuridine incorporation into DNA of human leukemia cells is not concentration dependent. Powell BL, et al. **Cytometry** 1990;11(3):438–41

Cytofluorometric determination of protein–bound thiols and DNA in cell nuclei. Schabronath J, et al. **Cytometry** 1990; 11(3):333–40

Partition of protein and DNA during cytokinesis in human breast cancer cell lines. Sennerstam R, et al. **Cytometry** 1990;11(2):292–9

Discrepancies between flow cytometric and cytogenetic studies in the detection of aneuploidy in human solid tumors. Shackney SE, et al. **Cytometry** 1990;11(1):94–104

Flow cytometric detection of multifocal DNA aneuploid cell populations in mastectomy specimens containing a primary breast carcinoma. van Dam PA, et al. **Cytometry** 1990; 11(2):300–7

DNA flow cytometry of non–Hodgkin's lymphomas. Macartney JC, et al. **Eur J Cancer** 1990;26(5):635–7 (27 ref.)

Primary invasive and in situ vaginal carcinoma. Flow cytometric analysis of DNA aneuploidy and cell proliferation from archival paraffin–embedded tissue. Punnonen R, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep;32(3):247–51

Static and flow cytometric DNA analysis compared to histologic prognostic factors in a cohort of stage T2 breast cancer. Arnerlöv C, et al. **Eur J Surg Oncol** 1990 Jun; 16(3):200–8

Application of linked DNA markers to screening families with multiple endocrine neoplasia type 2A. Telenius H, et al. **Eur J Surg Oncol** 1990 Apr;16(2):134–40

Immunoglobulin and T cell receptor gene rearrangements in lymphoproliferative disorders. Daus H, et al. **Exp Cell Biol** 1989;57(4):177–84

Ultrastructural studies on RNA and DNA components of isolated nucleoli of Walker 256 carcinosarcoma. Narayan KS, et al. **Exp Cell Res** 1966 Jan;41(1):81–98

Estimation of DNA content in uveal melanomas by flow cytometry. Rennie IG, et al. **Eye** 1989;3 (Pt 5):611–7

Nuclear DNA distribution pattern of the parenchymal cells in adenocarcinomas of the pancreas and in chronic pancreatitis. A study of archival specimens using both image and flow cytometry. Weger AR, et al. **Gastroenterology** 1990 Jul;99(1):237–42

Flow cytometric measurements of DNA index and S–phase on paraffin–embedded early stage endometrial cancer: an important prognostic indicator. Rosenberg P, et al. **Gynecol Oncol** 1989 Oct;35(1):50–4

Flow–cytometric prognostic factors for the survival of patients with ovarian carcinoma: a 5–year follow–up study. Volm M, et al. **Gynecol Oncol** 1989 Oct;35(1):84–9

DNA cytophotometric findings in pheochromocytoma. Padberg BC, et al. **Henry Ford Hosp Med J** 1989; 37(3–4):185–6

Immunocytochemical detection of sulphonylated DNA in tissue sections. An alternative to Feulgen staining of DNA. Fritz P, et al. **Histochemistry** 1989;93(2):175–81

Simultaneous analysis of mitochondrial activity and DNA content in Ehrlich ascites tumor cells by dual parameter flow cytometry. Himmerle T, et al. **Histochemistry** 1989; 93(2):207–12

Nucleolar organizer regions, proliferative activity and DNA index in gastric carcinoma. Rosa J, et al. **Histopathology** 1990 Jun;16(6):614–6

Cell proliferative indices and DNA content as prognostic factors in primary breast cancer. Osborne CK. **Horm Res** 1989;32 Suppl 1:238–41

Microphotometric DNA analysis in mild and moderate dysplasia of the uterine cervix: a retrospective study. Kashyap V, et al. **Indian J Pathol Microbiol** 1990 Jan; 33(1):30–4

Significance of DNA content in oral carcinoma. Sen R. **Int J Biol Markers** 1989 Jul–Sep;4(3):174–80

DNA–ploidy as prognostic factor in prostatic carcinoma. Haugen OA, et al. **Int J Cancer** 1990 Feb 15;45(2):224–8

Detection of somatic mutations in tumours of diverse types by DNA fingerprinting with M13 phage DNA. Hayward N, et al. **Int J Cancer** 1990 Apr 15;45(4):687–90

Simultaneous monitoring of P53 protein and DNA content of colorectal adenocarcinomas by flow cytometry. Remvikos Y, et al. **Int J Cancer** 1990 Mar 15;45(3):450–6

Cytokinetic investigation of lung tumors using the anti–bromodeoxyuridine (BUdR) monoclonal antibody method: comparison with DNA flow cytometric data. Teodori L, et al. **Int J Cancer** 1990 Jun 15;45(6):995–1001

Flow cytometric determination of the time of metastasis during fractionated radiation therapy of the rat rhabdomyosarcoma R1H. Baumann M, et al. **Int J Radiat Biol** 1990 Aug;58(2):361–9

Cell population kinetics of the rhabdomyosarcoma R1H of the rat after single doses of X–rays. Jung H, et al. **Int J Radiat Biol** 1990 Mar;57(3):567–89

Small malignant melanomas: clinicopathologic correlation and DNA ploidy analysis. Kamino H, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1032–8

Flow cytometric DNA content analysis of a case of pilomatrix carcinoma showing multiple recurrences and invasion of the cranial vault. Rabkin MS, et al. **J Am Acad Dermatol** 1990 Jul;23(1):104–8

Prognostic implications of DNA ploidy in squamous cell carcinomas of the tongue assessed by flow cytometry. Hemmer J, et al. **J Cancer Res Clin Oncol** 1990;116(1):83–6

Cellular DNA content and prognosis of high–grade soft tissue sarcoma: the Scandinavian Sarcoma Group experience. Alvegard TA, et al. **J Clin Oncol** 1990 Mar;8(3):538–47

DNA hybridisation of routinely processed tissue for detecting HPV DNA in anal squamous cell carcinomas over 40 years. Scholefield JH, et al. **J Clin Pathol** 1990 Feb;43(2):133–6

Prognostic value of cytophotometric analysis of DNA in lymph node aspirates from patients with non–Hodgkin's lymphoma. Vučković J, et al. **J Clin Pathol** 1990 Aug; 43(8):626–9

The accuracy of cytology in diagnosis and DNA analysis of canine mammary tumours. Hellmén E, et al. **J Comp Pathol** 1989 Nov;101(4):443–50

Use of DAPI cytofluorometric analysis of cellular DNA content to differentiate Spitz nevus from malignant melanoma. Chi HI, et al. **J Invest Dermatol** 1990 Aug; 95(2):154–7

Flow cytometric analysis of DNA content in laryngeal cancer. Feinmesser R, et al. **J Laryngol Otol** 1990 Jun; 104(6):485–7

DNA content and proliferative activity of myoepitheliomas. el–Naggar A, et al. **J Laryngol Otol** 1989 Dec; 103(12):1192–7

DNA flow cytometry of acinic cell carcinomas of major salivary glands. el–Naggar AK, et al. **J Laryngol Otol** 1990 May;104(5):410–6

Presence of two members of c–erbA receptor gene family (c–erbA beta and c–erbA2) in smallest region of somatic homozygosity on chromosome 3p21–p25 in human breast carcinoma [see comments] Ali IU, et al. **J Natl Cancer Inst** 1989 Dec 6;81(23):1815–20 Comment in: J Natl Cancer Inst 1989 Dec 6;81(23):1764–5.

Mutations in human breast cancer: an overview. Callahan R, et al. **J Natl Cancer Inst** 1989 Dec 6;81(23):1780–6 (101 ref.)

Pathophysiology of tumor progression in human gallbladder: flow cytometry, CEA, and CA 19–9 levels in bile and serum in different stages of gallbladder disease. Strom BL, et al. **J Natl Cancer Inst** 1989 Oct 18;81(20):1575–80

Major structural alterations of the c–sis gene are not observed in a series of tumors of the human central nervous system. Press RD, et al. **J Neurooncol** 1989 Nov;7(4):345–56

Bone metastases of medulloblastoma in childhood; correlation with flow cytometric DNA analysis. Tomita T, et al. **J Neurooncol** 1990 Apr;8(2):113–20

Clinical significance of nuclear DNA content in pancreatic carcinoma. Alanen KA, et al. **J Pathol** 1990 Apr; 160(4):313–20

Carcinoma in situ of the testis in infertile men. A histological, immunocytochemical, and cytophotometric study of DNA content. Nistal M, et al. **J Pathol** 1989 Nov;159(3):205–10

S100 protein, neurone specific enolase, and nuclear DNA content in Spitz naevus. Rode J, et al. **J Pathol** 1990 May; 161(1):41–5

Flow cytometric DNA content analysis in primary lung cancer: comparison of results from fresh and paraffin–embedded specimens. Isobe H, et al. **J Surg Oncol** 1990 Jan;43(1):36–9

Stromal neoplasms of the breast: a comparative flow cytometric study. El–Naggar AK, et al. **J Surg Oncol** 1990 Jul;44(3):151–6

Multicentric adult secretory breast carcinoma: DNA flow cytometric findings, prognostic features, and review of the world literature. Richard G, et al. **J Surg Oncol** 1990 Aug; 44(4):238–44 (18 ref.)

Pattern of failure after radical retropubic prostatectomy for clinically and pathologically localized adenocarcinoma of the prostate: influence of tumor deoxyribonucleic acid ploidy. Blute ML, et al. **J Urol** 1989 Nov;142(5):1262–5

Deoxyribonucleic acid flow cytometry on primary adenocarcinoma of the bladder: an analysis of 36 cases. Grignon DJ, et al. **J Urol** 1989 Nov;142(5):1206–10

Human chorionic gonadotropin, neuron specific enolase and deoxyribonucleic acid flow cytometry in patients with high grade bladder carcinoma. Jacobsen AB, et al. **J Urol** 1990 Apr;143(4):706–9

Re: Deoxyribonucleic acid content and medroxyprogesterone acetate treatment in metastatic renal cell carcinoma [letter] Neuwirth H, et al. **J Urol** 1990 Sep;144(3):749–50

Comparative flow cytometric deoxyribonucleic acid studies on exophytic tumor and random mucosal biopsies in untreated carcinoma of the bladder. Norming U, et al. **J Urol** 1989 Dec;142(6):1442–7

Deoxyribonucleic acid flow cytometry in predicting response to radical radiotherapy of bladder cancer. Wijkström H, et al. **J Urol** 1990 Sep;144(3):646–50; discussion 650–1

Specific detection of metastasized human tumor cells in embryonic chicks by the polymerase chain reaction. Endo Y, et al. **Jpn J Cancer Res** 1990 Aug;81(8):723–6

Karyometric and DNA content analyses of cancer cells in stage III breast cancer with reference to prognosis. Tamura G, et al. **Jpn J Clin Oncol** 1990 Mar;20(1):78–82

Flow cytometric analysis of the nuclear DNA content of hepatocellular carcinoma. Ishizu H. **Jpn J Surg** 1989 Nov; 19(6):662–73

Prediction of the resistance of human tumors to adriamycin by chemosensitivity tests and DNA analysis of the multidrug resistance gene. Kim R, et al. **Jpn J Surg** 1990 Mar;20(2):192–6

The histological assessment and evaluation of a 4 day subrenal capsule assay by the percentage inhibition of DNA/protein. Nishiyama M, et al. **Jpn J Surg** 1989 Jul;19(4):403–9

Nuclear DNA content in breast carcinoma with special reference to the parameters of malignant potentiality. Suehiro S, et al. **Jpn J Surg** 1990 Jan;20(1):115–8

Hepatitis B virus DNA integration in hepatocellular carcinomas and their adjacent non–neoplastic liver tissues. Ding JJ, et al. **Kelo J Med** 1989 Dec;38(4):443–53

Nuclear deoxyribonucleic acid content (ploidy) of endodermal sinus (yolk sac) tumor. Kommoss F, et al. **Lab Invest** 1990 Feb;62(2):223–31

Evidence implicating at least two genes on chromosome 17p in breast carcinogenesis. Coles C, et al. **Lancet** 1990 Sep 29;336(8718):761–3

Flow cytometry in clinical oncology: cell cycle and DNA ploidy in assessing tumor behavior. Czerniak B, et al. **Mater Med Pol** 1989 Jan–Mar;21(1):3–9 (77 ref.)

DNA ploidy in endometrial carcinoma: major objective prognostic factor. Britton LC, et al. **Mayo Clin Proc** 1990 May;65(5):643–50

Confirmation of lymphomatous pulmonary involvement by immunophenotypic and gene rearrangement analysis of bronchoalveolar lavage fluid. Pisani RJ, et al. **Mayo Clin Proc** 1990 May;65(5):651–6 (12 ref.)

Clonal growth of atypical adenomatous hyperplasia of the lung: cytofluorometric analysis of nuclear DNA content. Nakayama H, et al. **Mod Pathol** 1990 May;3(3):314–20

Amplification of N–myc oncogene in human melanoma cells. Bauer J, et al. **Neoplasma** 1990;37(3):233–8

The importance of blast cell DNA content for prognosis of childhood acute lymphoblastic leukemia. Starý J, et al. **Neoplasma** 1990;37(3):293–9

DNA in chordomas of the clivus Blumenbachi. Spaar FW, et al. **Neurosurg Rev** 1990;13(3):219–29

Multiparameter flow cytometric analysis of neoplasms of the central nervous system: correlation of nuclear antigen p105 and DNA content with clinical behavior. Appley AJ, et al. **Neurosurgery** 1990 Jul;27(1):83–96

DNA content as a prognostic factor in endometrial carcinoma. Newbury R, et al. **Obstet Gynecol** 1990 Aug; 76(2):251–7

Effects of high dietary fat on the total DNA and receptor contents in rats with 7,12–dimethylbenz[a]anthracene–induced mammary carcinoma. Kumaki T, et al. **Oncology** 1990;47(4):352–8

Correlation of DNA ploidy and clinical outcome in early gastric carcinomas. Yonemura Y, et al. **Oncology** 1990; 47(1):49–54

Diagnosing cervical cancer by measuring DNA content [news] **Oncology (Williston Park)** 1988 Aug;2(8):29

Clinical applications of flow cytometry. Raber MN. **Oncology (Williston Park)** 1988 Mar;2(3):35–43, 47 (52 ref.)

The measurement of DNA content and ploidy analysis in thyroid neoplasms. McLeod MK. **Otolaryngol Clin North Am** 1990 Apr;23(2):271–90 (98 ref.)

Whole cell preparation of squamous cell carcinoma for cytometric analysis of DNA. Lampe H, et al. **Otolaryngol Head Neck Surg** 1990 Jul;103(1):72–9

Prognostic significance of morphological parameters and flow cytometric DNA analysis in carcinoma of the breast. Visscher DW, et al. **Pathol Annu** 1990;25 Pt 1:171–210 (88

ref.)
The flow-cytometric analysis of DNA content and S-phase fraction (SPF) of human breast cancer. Eskelinen M, et al. **Pathol Res Pract** 1989 Nov;185(5):694–7
Comparison between image and flow DNA cytometry in non-Hodgkin's lymphomas. Felman P, et al. **Pathol Res Pract** 1989 Nov;185(5):709–14
A user-oriented software for cytological image analysis. Application to automatic DNA content measurement of thyroid cells. Gavoille A, et al. **Pathol Res Pract** 1989 Nov; 185(5):821–4
Electron microscopic localization of acridine orange chromatin interaction products in rat pheochromocytoma PC12 cells. Hara H, et al. **Pathol Res Pract** 1990 Feb; 186(1):102–9
DNA-content, inflammatory tissue response and tumour size in human lung carcinoma. Kayser K, et al. **Pathol Res Pract** 1989 Nov;185(5):584–8
Cytophotometry in tumor pathology. A critical review of methods and applications, and some results of DNA analysis. Mellin W. **Pathol Res Pract** 1990 Feb;186(1):37–62 (219 ref.)
Sources and nature of variation in DNA analysis of follicular thyroid adenoma. Montironi R, et al. **Pathol Res Pract** 1989 Nov;185(5):579–83
Flow cytometric analysis of DNA content in cervical lesions. Perticarari S, et al. **Pathol Res Pract** 1989 Nov;185(5):686–8
Methodological aspects of DNA image cytometry in formalin-fixed paraffin-embedded material from pancreatic adenocarcinoma. Weger AR, et al. **Pathol Res Pract** 1989 Nov;185(5):752–4
Heterogeneity of DNA index in renal-cell carcinoma. Devonec M, et al. **Prog Clin Biol Res** 1990;348:35–48
Alterations in the methylation status of ras oncogenes in B6C3F1 mouse liver tumors. Vorce RL, et al. **Prog Clin Biol Res** 1990;331:335–43
A paradigm for oncogene complementation in human breast cancer. Roux-Dosseto M, et al. **Res Virol** 1989 Nov-Dec; 140(6):571–91
DNA ploidy in oesophageal cancer. A preliminary report. Mannell A, et al. **S Afr J Surg** 1990 Jun;28(2):55–8
Enzyme patterns and flow cytometric DNA measurements in colorectal hyperplastic polyps and tubular adenomas less than five millimeters. Vatn MH, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1031–8
DNA analysis and prognosis of digestive tract cancers. Kuwano H, et al. **Semin Surg Oncol** 1990;6(1):28–35
Prognostic value of DNA flow cytometry in thymomas and thymic carcinomas. Sauter ER, et al. **South Med J** 1990 Jun;83(6):656–9
Biophysical investigations on L1210 mouse leukemia cells treated with activated cyclophosphamide metabolites: determination of selective properties of DNA-interstrand and DNA-protein cross-linking mechanisms (alkaline elution and 31P-NMR-spectroscopy) and some aspects of the combination drug and radiotherapy. Ulmer W. **Strahlenther Onkol** 1990 Feb;166(2):157–63
Flow cytometry and prognostic implications in patients with solid tumors. Williams NN, et al. **Surg Gynecol Obstet** 1990 Sep;171(3):257–66 (107 ref.)
Cytophotometrically determined DNA content, mitotic activity, and lymph node metastasis in clinical gastric cancer. Korenaga D, et al. **Surgery** 1990 Mar;107(3):262–7
Cytofluorometric analysis of nuclear DNA and cell protein in pancreatic carcinoma. Yamauchi H, et al. **Tohoku J Exp Med** 1989 Nov;159(3):245–6
Comparison of quantitative and classic prognosticators in urinary bladder carcinoma. A multivariate analysis of DNA flow cytometric, nuclear morphometric and clinicopathological features. Blomjous CE, et al. **Virchows Arch [A]** 1989;415(5):421–8
Prognosis of salivary adenocarcinomas. A retrospective study of 52 cases with special regard to cytochemically assessed nuclear DNA content. Hamper K, et al. **Virchows Arch [A]** 1989;416(1):57–64
Cytophotometric DNA analysis of hepatocellular carcinoma with Mallory bodies. Hoso M, et al. **Virchows Arch [A]** 1989;416(1):51–5
Adrenomedullary hyperplasia and phaeochromocytoma. DNA cytophotometric findings in 47 cases. Padberg BC, et al. **Virchows Arch [A]** 1990;416(5):443–6
Flow DNA-cytometric findings of paraffin-embedded primary cutaneous melanomas related to prognosis. Lindholm C, et al. **Virchows Arch [B]** 1989;58(2):147–51
Southern and dot blot analysis of DNA from formalin-fixed, paraffin-embedded tissue samples from colonic carcinomas. Moerkerk PT, et al. **Virchows Arch [B]** 1990;58(5):351–5
Diagnostic and prognostic utility of flow cytometric DNA measurements in follicular thyroid tumors. Grant CS, et al. **World J Surg** 1990 May-Jun;14(3):283–9; discussion 289–90
Comparison of deoxyribonucleic acid ploidy and nuclear expressed p62 c-myc oncogene in the prognosis of colorectal cancer. Rowley S, et al. **World J Surg** 1990 Jul-Aug;14(4):545–50; discussion 551
DNA analysis and parathyroid pathology. Shenton BK, et al. **World J Surg** 1990 May-Jun;14(3):296–301; discussion 302
Carcinoma of the breast in children. Eskelinen M, et al. **Z Kinderchir** 1990 Feb;45(1):52–5
[Flow cytometric analysis of nasopharyngeal carcinoma] Chen XJ. **Chung Hua Chung Liu Tsa Chih** 1990 Mar; 12(2):82–4 (Eng. Abstr.) (Chi)
[DNA content and its distribution pattern of poorly differentiated nasopharyngeal carcinoma measured by Feulgen cytophotometry] Zong YS. **Chung Hua Chung Liu Tsa Chih** 1990 Mar;12(2):85–8 (Eng. Abstr.) (Chi)
[Quantitative DNA analysis in epithelial ovarian cancer] Xu Y, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1989 May; 24(3):156–8, 189 (Eng. Abstr.) (Chi)
[Prediction of the malignant tendency of hydatidiform mole by determination of DNA content] Zhuang GX, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Sep;24(5):285–7, 317 (Eng. Abstr.) (Chi)
[Cellular DNA content of human cervical carcinoma] Zuo XL, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Sep; 24(5):288–90, 317 (Eng. Abstr.) (Chi)
[Significance and application of DNA ploidy of bladder cancer cells in studying the malignancy of tumors] Cao S. **Chung Hua I Hsueh Tsa Chih** 1990 Mar;70(3):143–5 (Chi)
[Analysis of blood vessel invasion by cells of thyroid follicular carcinoma using image processing combined with immunohistochemistry] Zhu QY. **Chung Hua I Hsueh Tsa Chih** 1989 Oct;69(10):573–5, 40 (Eng. Abstr.) (Chi)
[Comparison of DNA flow cytometry and microspectrophotometry in gastric carcinoma] Zhuang YH. **Chung Hua I Hsueh Tsa Chih** 1989 Jul;69(7):365–8, 26 (Eng. Abstr.) (Chi)
[Quantitative analysis of DNA content and its application in tumor pathology] Cong WM. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Sep;18(3):235–7 (21 ref.) (Chi)
[Evaluation of DNA content in gastric dysplasia and carcinoma by image cytometry] Shao L, et al. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Dec;18(4):254–6 (Eng. Abstr.) (Chi)
[Study on DNA content and nucleus/cytoplasm ratio of esophageal epithelium during malignant change] Shen ZY, et al. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Mar; 19(1):50–2 (Eng. Abstr.) (Chi)
[The relationship between DNA content in cervical carcinoma cell and the clinicopathological features] Zhang H. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Jun;18(2):137–9 (Eng. Abstr.) (Chi)
[The DNA content of bladder carcinoma in relation to pathologic grading, staging and prognosis: a flow cytometric study] Xue J. **Chung Hua Wai Ko Tsa Chih** 1989 Nov;27(11):650–3, 700 (Eng. Abstr.) (Chi)
[Flow cytometry in determination of DNA content of lymphoid cells: study of methodology and its preliminary clinical application] Zhang ZG, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Aug; 11(4):298–301 (Eng. Abstr.) (Chi)
[Flow cytometry. Results and research potential in solid tumors] Chassevent A, et al. **Ann Pathol** 1989;9(4):229–32 (25 ref.) (Fre)
[Significance of flow cytometry in the prognosis of tumors of the kidney in adults] Sibert L, et al. **Ann Urol (Paris)** 1989;23(6):476–81 (19 ref.) (Eng. Abstr.) (Fre)
[Application of nuclear image analysis to diagnosis in oncology] de Launoit Y, et al. **Bull Mem Acad R Med Belg** 1989;144(10):459–66; discussion 467–8 (Eng. Abstr.) (Fre)
[Flow cytometry of polypoid neoplasms of the colon resected by endoscopy] Beuvon F, et al. **Gastroenterol Clin Biol** 1989 Aug-Sep;13(8–9):671–5 (Eng. Abstr.) (Fre)
[Cell cycle and catamnesis in breast cancer. Cytophotometric studies] Krug H. **Arch Gynecol Obstet** 1989;245(1–4):651–4 (Eng. Abstr.) (Ger)
[Diagnosis of prospective malignancy of cervix dysplasia using DNA cytometry (published erratum appears in Geburtshilfe Frauenheilkd 1990 Jun;50(6):510)] Bollmann R. **Geburtshilfe Frauenheilkd** 1990 Feb;50(2):113–7 (Eng. Abstr.) (Ger)
[Prognostic significance of cell kinetic parameters of endometrial cancer] Kühn W, et al. **Geburtshilfe Frauenheilkd** 1989 Sep;49(9):787–92 (Eng. Abstr.) (Ger)
[Results of impulse cytophotometry in malignant tumors of the head and neck. A prognostic parameter?] Brauneis JW, et al. **HNO** 1989 Sep;37(9):369–72 (Eng. Abstr.) (Ger)
[Dna-ploidy in basal cell carcinoma of the head] Hemmer J, et al. **Onkologie** 1989 Aug;12(4):192–3 (Ger)
[The prognostic value of flow cytometry in malignancies of the head and neck] Laskawi R, et al. **Onkologie** 1989 Aug; 12(4):190–1 (Ger)
[Fluorocytophotometic DNA studies in kidney carcinoma] Vogel J, et al. **Verh Dtsch Ges Pathol** 1989;73:405–8 (Eng. Abstr.) (Ger)
[Prognostic significance of nuclear DNA content in highly malignant thyroid tumors] Lukács G, et al. **Wien Klin Wochenschr** 1990 Apr 27;102(9):253–6 (Eng. Abstr.) (Ger)
[Cytologic methods in dermatology] Haneke E, et al. **Z Hautkr** 1990 Feb;65(2):154, 157–60, 163–6 (32 ref.) (Eng. Abstr.) (Ger)
[Grading, staging, DNA content and prognosis of invasive ductal breast cancer] Theissig F, et al. **Zentralbl Chir** 1990; 115(7):433–9 (Eng. Abstr.) (Ger)
[DNA cytometry and morphometry, based on TV image analysis, in the diagnosis of gastric carcinoma] Sugár J, et al. **Morphol Igazsagugyi Orv Sz** 1990 Jan;30(1):56–60 (Eng. Abstr.) (Hun)
[Nuclear DNA content in tumors of the colon and rectum. Relationship between ploidy and site of the neoplasm] Larghero GC, et al. **Minerva Chir** 1990 Mar 15;45(5):247–50 (Eng. Abstr.) (Ita)
[Measurement of DNA content and analysis of chromosome using flow cytometry] Akagi K, et al. **Gan No Rinsho** 1989 Oct;35(13):1559–65 (33 ref.) (Eng. Abstr.) (Jpn)
[Relationship between the effectiveness of CDDP therapy and the nuclear DNA content in advanced-recurrent gastric cancer cases] Chikaishi T, et al. **Gan No Rinsho** 1989 Dec;35(15):1739–44 (Eng. Abstr.) (Jpn)
[The relation of the DNA ploidy pattern to lymphatic permeation in pure-type diffuse infiltrative carcinomas of the stomach] Hagihara T, et al. **Gan No Rinsho** 1990 Feb; 36(2):148–52 (Eng. Abstr.) (Jpn)
[Cellular kinetics and the nuclear ploidy pattern in relation to the gross pathological classification and location of advanced colorectal cancers as analyzed by DNA-RNA cytofluorometry] Hashimoto T, et al. **Gan No Rinsho** 1990 May;36(6):704–10 (Eng. Abstr.) (Jpn)
[Flow cytometric DNA analysis of frozen samples] Kawasaki M, et al. **Gan No Rinsho** 1989 Oct;35(12):1429–31 (Eng. Abstr.) (Jpn)
[Prediction of radiosensitivity by DNA analysis] Kubota S, et al. **Gan No Rinsho** 1989 Oct;35(13):1572–5 (Eng. Abstr.) (Jpn)
[Prognostic implications of the ploidy pattern of the nuclear DNA in hepatocellular carcinomas] Omagari K, et al. **Gan No Rinsho** 1990 Feb;36(2):121–6 (Eng. Abstr.) (Jpn)
[The degree of malignancy in lung adenocarcinoma and related factors— nuclear DNA content and bromodeoxyuridine labeling index] Shimosato Y, et al. **Gan No Rinsho** 1989 May;Spec No:183–8 (Jpn)
[An analysis of the cellular DNA contents in lung-metastasized stomach cancers] Umehara Y, et al. **Gan No Rinsho** 1990 Mar;36(4):469–72 (Eng. Abstr.) (Jpn)
[Flow cytometric DNA analysis of papillary carcinoma of the thyroid using paraffin-embedded specimens] Yamashita T, et al. **Gan No Rinsho** 1990 Apr;36(5):569–73 (Eng. Abstr.) (Jpn)
[Flow cytometric bromodeoxyuridine (BrdU)/DNA analysis—study with urogenital tumors] Shimabukuro T, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1653–7 (Eng. Abstr.) (Jpn)
[Prognostic significance of nuclear DNA content in breast cancer] Nishi T, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Mar 20;25(3):569–77 (Eng. Abstr.) (Jpn)
[Flow cytometric DNA analysis in colorectal cancer] Ando Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1571–5 (Eng. Abstr.) (Jpn)
[Flow cytometric DNA analysis in rectal carcinomas] Araki Y. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):1965–75 (Eng. Abstr.) (Jpn)
[Nuclear DNA analysis of hepatocellular carcinoma] Fujimoto J, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1568–70 (Eng. Abstr.) (Jpn)
[Cytodynamic evaluation on the relationship between the mode of intracellular DNA content and the prognosis of esophageal cancer patients] Hasegawa M. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):191–200 (Eng. Abstr.) (Jpn)
[Flow cytometric quantitation of the proliferation associated nuclear antigen p105 and DNA content of advanced gastric cancers as a prognostic factor: preliminary report] Kimura H, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun;91(6):786 (Jpn)
[Flow cytometric quantitation of the proliferation-associated nuclear antigen p105 and DNA content in gastric cancer: preliminary report] Kimura H, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):293 (Jpn)
[Nuclear DNA content of gastric cancer with biologically high malignancy] Kimura O, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1564–7 (Eng. Abstr.) (Jpn)
[Comparative study of nuclear DNA content between fine needle aspirates and paraffin-embedded tissue samples of breast cancer: preliminary report] Kurihara T, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar;91(3):438 (Jpn)
[Clinical significance of measurement of nuclear DNA content in breast cancer] Nishi T, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1559–63 (Eng. Abstr.) (Jpn)
[Studies on DNA content in ploidy patterns of esophageal cancer] Rikitake H. **Nippon Geka Gakkai Zasshi** 1990 May; 91(5):564–74 (Eng. Abstr.) (Jpn)
[Comparative studies on DNA ploidy pattern and drug sensitivity of human tumors: preliminary report] Tanigawa N, et al. **Nippon Geka Gakkai Zasshi** 1989 Aug;90(8):1286 (Jpn)
[Analysis of cellular DNA-RNA content using flow cytometry between primary and metastatic foci in lung carcinoma] Yamaoka N, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):901–6 (Eng. Abstr.) (Jpn)
[Flow cytometric analysis of DNA ploidy in esophageal and colorectal cancers—in relation to prognosis, pathologic findings, or family history of cancer] Yamazaki K.

Nippon Geka Gakkai Zasshi 1989 Aug;90(8):1186–95 (Eng. Abstr.) (Jpn)

[DNA ploidy pattern in diffuse infiltrating carcinomas of the stomach] Yonemura Y, et al. Nippon Geka Gakkai Zasshi 1989 May;90(5):681–5 (Eng. Abstr.) (Jpn)

[A microspectrophotometric study of 'cancer in adenoma' of the colorectum] Masaki T, et al. Nippon Shokakibyo Gakkai Zasshi 1990 Feb;87(2):283 (Jpn)

[Detection of ras gene mutations of primary hepatic malignant tumors by polymerase chain reaction and direct sequencing method] Tada M, et al. Nippon Shokakibyo Gakkai Zasshi 1990 Mar;87(3):811–5 (Eng. Abstr.) (Jpn)

[Flow cytometric analysis of nuclear DNA contents in human hepatocellular carcinoma] Yumori Y, et al. Nippon Shokakibyo Gakkai Zasshi 1990 Jan;87(1):83–9 (Eng. Abstr.) (Jpn)

[DAPI–DNA cytofluorometric study of glioma cells—application of DAPI–DNA cytofluorometry to paraffin embedded archival glioma tissue for nuclear DNA content analysis] Nagashima R. No To Shinkei 1990 Apr; 42(4):352–9 (Eng. Abstr.) (Jpn)

[A prognostic factor in childhood acute lymphoblastic leukemia: implication of cellular DNA contents. Children's Cancer and Leukemia Study Group] Katano N, et al. Rinsho Ketsueki 1989 Jul;30(7):943–50 (Eng. Abstr.) (Jpn)

[Flow cytometry of DNA in research on kidney tumors] Zubrikhina GN, et al. Arkh Patol 1989;51(8):16–20 (Eng. Abstr.) (Rus)

[A fluorometric method of determining DNA in cells] Ogievetskaia MM, et al. Priki Biokhim Mikrobiol 1989 Jul–Aug;25(4):558–64 (Eng. Abstr.) (Rus)

[The DNA content in the cell nuclei of trophoblastic tumors] Zueva EE, et al. Tsitologiia 1989 Aug;31(8):934–44 (Eng. Abstr.) (Rus)

[Quantitative characterization of nuclear polymorphism of the epithelial cells in fibroadenomatosis and cancer of the breast] Ganina KP, et al. Vopr Onkol 1989;35(12):1444–9 (Eng. Abstr.) (Rus)

[Study of DNA content using a flow cytometry method and steroid hormone receptors in breast cancer] Zubrikhina GN, et al. Vopr Onkol 1989;35(10):1179–86 (Eng. Abstr.) (Rus)

[Flow cytometry for the determination of DNA in head and neck carcinomas] Labella T, et al. Acta Otorrinolaringol Esp 1989 Dec;40 Suppl 2:295–7 (Eng. Abstr.) (Spa)

ANTAGONISTS & INHIBITORS

Mechanisms of inhibition of DNA synthesis by 2-chlorodeoxyadenosine in human lymphoblastic cells. Griffig J, et al. Cancer Res 1989 Dec 15;49(24 Pt 1):6923–8

BIOSYNTHESIS

Dissociation of cellular proliferation and c-myc expression by buttercup extract. Baker V, et al. Am J Med Sci 1989 Nov;298(5):283–8

Analysis of radiation failure after uveal melanoma brachytherapy. Char DH, et al. Am J Ophthalmol 1989 Dec 15;108(6):712–6

DNA damage/repair studies using a combination of monoclonal thymidine antibody and unscheduled DNA synthesis simultaneously. Soni N, et al. Anticancer Res 1989 Jul–Aug;9(4):909–14

Studies on the mechanism by which prolactin regulates protein, RNA, and DNA synthesis in Nb2 node lymphoma cells. Rillema JA, et al. Biochim Biophys Acta 1989 Oct 30;1014(1):78–82

Chemosensitivity correlation between the primary tumors and simultaneous metastatic lymph nodes of patients evaluated by DNA synthesis inhibition assay. Nio Y, et al. Cancer 1990 Mar 15;65(6):1273–8

The effect of ara-C-induced inhibition of DNA synthesis on its cellular pharmacology. Wang LM, et al. Cancer Chemother Pharmacol 1990;25(6):418–24

Incorporation of 3'-azido-3'-deoxythymidine into cellular DNA and its removal in a human leukemic cell line. Vazquez-Padua MA, et al. Cancer Commun 1990;2(1):55–62

The cell-proliferative index. Meyer JS. Cancer Invest 1990; 8(2):247–9

Inhibitory effects of novel festuclavine derivatives on nucleoside uptake and incorporation into DNA and RNA in human lymphoid leukemia Molt 4B cells. Hibasami H, et al. Cancer Lett 1990 Apr 20;50(2):161–4

Differential inhibition by an antitumoral drug 10-[gamma-diethylaminopropylamino]-6-methyl-5H-pyrido[3',4':4,5]pyrrolo [2,3-G]isoquinoline (BD-40), a pyrido-pyrrolo-isoquinoline derivative, of in vitro DNA synthesis catalyzed by various DNA polymerases. Ono K, et al. Cancer Lett 1990 May 15;51(1):59–65

Differential drug sensitivity conferred by growth status detected in a mixed population of cycling and noncycling cells. Barcellos-Hoff MH, et al. Cancer Res 1990 Jun 15; 50(12):3551–5

Effects of bryostatins 1 and 2 on morphological and functional differentiation of SH-SY5Y human neuroblastoma cells. Jalava AM, et al. Cancer Res 1990 Jun 1;50(11):3422–8

Action of hydroxyurea on the nucleic acid metabolism and viability of HeLa cells. Kim JH, et al. Cancer Res 1967 Jul;27(7):1301–5

Modulation of IdUrd–DNA incorporation and radiosensitization in human bladder carcinoma cells. Kunugi KA, et al. Cancer Res 1990 Aug 15;50(16):4962–7

Lorglumide and loxiglumide inhibit gastrin-stimulated DNA synthesis in a rat tumoral acinar pancreatic cell line (AR42J). Seva C, et al. Cancer Res 1990 Sep 15; 50(18):5829–33

Stimulation of calcium mobilization but not proliferation by bombesin and tachykinin neuropeptides in human small cell lung cancer cells. Takuwa N, et al. Cancer Res 1990 Jan 15;50(2):240–4

A neuropeptide antagonist that inhibits the growth of small cell lung cancer in vitro. Woll PJ, et al. Cancer Res 1990 Jul 1;50(13):3968–73

DNA synthetic activity in tumor-bearing mice. Waldrop RD, et al. Chronobiol Int 1989;6(3):237–43

Implications for a reduced DNA-elongation rate in polyamine-depleted cells. Oredsson SM, et al. Eur J Biochem 1990 Jul 5;190(3):483–9

The effect of gastrointestinal hormones on the incorporation of tritiated thymidine in the pancreatic adenocarcinoma cell line (WD PaCa). Edwards BF, et al. Int J Pancreatol 1989 Sep;5(2):191–201

Stimulating effects of insulin and low-density lipoprotein on cell growth and macromolecular syntheses of HeLa cells cultured in K(+)-depleted medium. Hosokawa K, et al. J Cell Physiol 1990 Aug;144(2):254–61

High-resolution detection of newly synthesized DNA by anti-bromodeoxyuridine antibodies identifies specific chromatin domains. Mazzotti G, et al. J Histochem Cytochem 1990 Jan;38(1):13–22

The adenovirus E1B 19-kilodalton protein stimulates gene expression by increasing DNA levels. Herrmann CH, et al. Mol Cell Biol 1989 Dec;9(12):5412–23

Distribution pattern of acridine orange chromatin interaction products in rat glioma C6 cells at different phases of the cell cycle. Hara H, et al. Pathol Res Pract 1990 Feb; 186(1):110–6

The effect of hypothermic treatment on the repair or expression of X-ray damage measured in split dose experiments on L5178Y-S cells. Kapiszewska M, et al. Radiat Environ Biophys 1989;28(4):303–17

The effects of cortisol, 11-epicortisol, and lysine vasopressin on DNA and RNA synthesis in isolated human adrenocorticotropic hormone-secreting pituitary tumor cells. Reletić J, et al. Steroids 1990 Mar;55(3):98–100

Inhibition of DNA synthesis by alpha-1-antichymotrypsin. Tsuda M, et al. Tokai J Exp Clin Med 1988 Dec; 13(6):329–36

[Interaction of component (E) with tumor cellular DNA] Ma YP. Chung Hua Chung Liu Tsa Chih 1989 Mar; 11(2):95–7 (Eng. Abstr.) (Chi)

[Unscheduled DNA synthesis (UDS) in human lymphocytes induced by drinking water in high risk areas of stomach cancer] Gao ZQ. Chung-hua Ping Li Hsueh Tsa Chih 1989 Sep;18(3):171–4 (Eng. Abstr.) (Chi)

[Effects of complex of 3,6-di-(dimethylamino)-dibenzopyriodonium with praseodymium dicitrate on the syntheses of DNA, RNA, protein, nucleoprotein and ATP of leukemia L 7712 cells in mice] Liu LS, et al. Chung Kuo Yao Li Hsueh Pao 1989 Mar;10(2):188–91 (Eng. Abstr.) (Chi)

[Conditioned medium of human nasopharyngeal carcinoma epithelioid cell line CNE 1 contained the activities of transformed growth-inhibiting factor(s)] Lu YL, et al. Shih Yen Sheng Wu Hsueh Pao 1990 Mar;23(1):95–103 (Eng. Abstr.) (Chi)

[A possible role of phosphoprotein p53 in the mechanism of autostimulation of tumor cell proliferation] Ageenko AI, et al. Eksp Onkol 1990;12(1):35–7 (Eng. Abstr.) (Rus)

[The effect of 5-fluorouracil, metronidazole, caffeine and irradiation on the synthesis of DNA in the Pliss lymphosarcoma] Ermekova SA, et al. Radiobiologiia 1989 Sep-Oct;29(5):702–4 (Eng. Abstr.) (Rus)

[DNA synthesis and content in the macrophage nuclei of normal mice, during carcinogenesis and during the administration of retinoids to the animals] Karalova EM, et al. Tsitologiia 1990;32(1):47–53 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Synergistic interaction between etoposide and 1-beta-D-arabinofuranosylcytosine. Ohkubo T, et al. Adv Exp Med Biol 1989;253B:355–62

Sequential combination of methotrexate and 1-beta-D-arabinofuranosylcytosine shows synergistic effect on the generation of DNA strand breaks in a human promyelocytic leukemia cell line. Tanizawa A, et al. Adv Exp Med Biol 1989;253B:349–54

Can cytotoxic activity of anthracyclines be related to DNA damage? Nishiyama M, et al. Anticancer Drug Des 1990 Feb;5(1):135–9

DNA interstrand crosslinking and strand break repair in human glioma cell lines of varying [1,3-bis(2-chloroethyl)-1-nitrosourea] resistance. Ali-Osman F, et al. Anticancer Res 1990 May-Jun; 10(3):677–82

Melphalan-induced DNA cross-linking and inhibition of DNA and RNA synthesis in human melanoma and lymphoblast cells. Ringborg U, et al. Anticancer Res 1990 Mar-Apr;10(2A):297–301

Cytotoxicity and DNA damaging effects of a new nitrosourea, fotemustine, diethyl-1-(3-(2-chloroethyl)-3-nitrosoureido) ethylphosphonate-S10036. Tapiero H, et al. Anticancer Res 1989 Nov-Dec;9(6):1617–22

Modulation of doxorubicin-induced DNA lesions by verapamil, DMDP and dipyridamole in resistant P388 cell lines. Yin MB, et al. Anticancer Res 1990 Mar-Apr; 10(2A):327–32

Mechanisms underlying resistance to streptozotocin in Mer+ and Mer- human tumor lines. Fram RJ, et al. Biochem Pharmacol 1990 Mar 1;39(5):959–64

Microsomal activation and increased production of 4'-(9-acridinylamino)-3-methanesulfon-m-anisidide (m-AMSA)-dependent, topoisomerase-associated DNA lesions in nuclei from human HL-60 leukemia cells. Gorsky LD, et al. Biochem Pharmacol 1990 May 1;39(9):1481–4

Bleomycin-induced DNA lesions are dependent on nucleosome repeat length. Lönn U, et al. Biochem Pharmacol 1990 Jan 1;39(1):101–7

Effects of minor groove binding drugs on camptothecin-induced DNA lesions in L1210 nuclei. McHugh MM, et al. Biochem Pharmacol 1990 Feb 15; 39(4):707–14

Subsidiary hydrogen bonding of intercalated anthraquinonic anticancer drugs to DNA phosphate. Pohle W, et al. Biophys Chem 1990 Apr;35(2-3):213–26

DNA damage and sequence specificity of DNA binding of the new anti-cancer agent 1,4-bis(2'-chloroethyl)-1,4-diazabicyclo-[2.2.1] heptane dimaleate (Dabis maleate) [published erratum appears in Br J Cancer 1990 Jul;62(1):172] Broggini M, et al. Br J Cancer 1990 Feb;61(2):285–9

The formation and removal of cisplatin (CDDP) induced DNA adducts in a CDDP sensitive and resistant human small cell lung carcinoma (HSCLC) cell line. Hospers GA, et al. Br J Cancer 1990 Jan;61(1):79–82

Cytotoxic and DNA-damaging effects of 1,2-bis(sulfonyl)hydrazines on human cells of the Mer+ and Mer- phenotype. Pratviel G, et al. Cancer Biochem Biophys 1989 Oct;10(4):365–75

Relationship between cytotoxicity, drug accumulation, DNA damage and repair of human ovarian cancer cells treated with doxorubicin: modulation by the tiapamil analog RO11-2933. Alaoui Jamali MA, et al. Cancer Chemother Pharmacol 1989;25(2):77–83

DNA damage and cytotoxicity of mitoxantrone and doxorubicin in doxorubicin-sensitive and -resistant human colon carcinoma cells. Capolongo L, et al. Cancer Chemother Pharmacol 1990;25(6):430–4

The influence of Na+,K(+)-pump blockade on doxorubicin-mediated cytotoxicity and DNA strand breakage in human tumor cells. Lawrence TS, et al. Cancer Chemother Pharmacol 1990;26(3):163–7

Expression of protein-associated DNA damage in the alkaline elution assay in the absence of enzymatic deproteinization. Gewirtz DA, et al. Cancer Commun 1989;1(3):175–80

Quantitative DNA alterations during 5-azacytidine-induced differential modulation of benzo(a)pyrene carcinogenesis in hamster bronchi. Hammond WG, et al. Cancer Commun 1990;2(4):135–44

Depletion of cellular glutathione by N,N'-bis(trans-4-hydroxycyclohexyl)-N'-nitrosourea as a determinant of sensitivity of K562 human leukemia cells to 4-hydroperoxycyclophosphamide. Chresta CM, et al. Cancer Res 1990 Jul 1;50(13):4067–71

Topoisomerase II-mediated DNA damage of episomes in tumor-bearing mice. Cullinan EB, et al. Cancer Res 1990 Oct 1;50(19):6154–7

3'-Deamino-3'-morpholino-13-deoxo-10-hydroxycarminomycin conquers multidrug resistance by rapid influx following higher frequency of formation of DNA single- and double-strand breaks. Horichi N, et al. Cancer Res 1990 Aug 1;50(15):4698–701

Antagonistic effect of aclarubicin on the cytotoxicity of etoposide and 4'-(9-acridinylamino)methanesulfon-m-anisidide in human small cell lung cancer cell lines and on topoisomerase II-mediated DNA cleavage. Jensen PB, et al. Cancer Res 1990 Jun 1;50(11):3311–6

Characterization of the DNA-DNA cross-linking activity of 3'-(3-cyano-4-morpholinyl)-3'-deaminoadriamycin. Jesson MI, et al. Cancer Res 1989 Dec 15;49(24 Pt 1):7031–6

Induction of endonucleolytic DNA cleavage in human acute myelogenous leukemia cells by etoposide, camptothecin, and other cytotoxic anticancer drugs: a cautionary note. Kaufmann SH. Cancer Res 1989 Nov 1;49(21):5870–8

Altered formation of DNA in human cells treated with inhibitors of DNA topoisomerase II (etoposide and teniposide). Lönn U, et al. Cancer Res 1989 Nov 15; 49(22):6202–7

Reduction in cis-diamminedichloroplatinum(II)-induced cytotoxicity, sister chromatid exchange, and DNA interstrand cross-links in 9L cells treated with the polyamine biosynthesis inhibitor (2R,5R)-6-heptyne-2,5-diamine. Milam KM, et al. Cancer Res 1989 Dec 15;49(24 Pt 1):6945–8

Liblomycin-mediated DNA cleavage in human head and neck squamous carcinoma cells and purified DNA. Wassermann K, et al. Cancer Res 1990 Mar 15;50(6):1732–7

Caffeine increases sensitivity of DNA to denaturation in

chromatin of L1210 cells. Kunicka JE, et al. **Cell Tissue Kinet** 1990 Jan;23(1):31–9

Phosphoinositide metabolism and oncogenes. Takenawa T, et al. **Clin Chim Acta** 1989 Dec 15;185(3):309–16

Structure–activity relations, cytotoxicity and topoisomerase II dependent cleavage induced by pendulum ring analogues of etoposide. Sinha BK, et al. **Eur J Cancer** 1990; 26(5):590–3

Suppression of nuclear ADP–ribosyltransferase activity in Ehrlich ascites tumor cells by 5–azacytidine. Modification of DNA as a cause of suppression. Hoshino J, et al. **FEBS Lett** 1990 Mar 12;262(1):61–3

Increase in topoisomerase–II–mediated DNA breaks and cytotoxicity of VP16 in human U937 lymphoma cells pretreated with low doses of methotrexate. Lorico A, et al. **Int J Cancer** 1990 Jan 15;45(1):156–62

Discrepancy between cytotoxicity and DNA interstrand crosslinking of carboplatin and cisplatin in vivo. DeNeve W, et al. **Invest New Drugs** 1990 Feb;8(1):17–24

Mechanism of action of a new macromolecular antitumor antibiotic, C–1027. Sugimoto Y, et al. **J Antibiot (Tokyo)** 1990 Apr;43(4):417–21

The potential role of DNA methylation in the response to 2,3,7,8–tetrachlorodibenzo–p–dioxin. Shen ES, et al. **J Biol Chem** 1989 Oct 25;264(30):17754–8

Differential DNase I sensitivity of the two complementary nucleosomal DNA strands in cycloheximide–treated Ehrlich ascites tumor cells. Chipev CC, et al. **J Biomol Struct Dyn** 1987 Jun;4(6):1065–77

DNA–directed alkylating agents. 1. Structure–activity relationships for acridine–linked aniline mustards: consequences of varying the reactivity of the mustard. Gourdie TA, et al. **J Med Chem** 1990 Apr;33(4):1177–86

Glutathione S–transferase activity, sulfhydryl group and glutathione levels, and DNA cross–linking activity with chlorambucil in chronic lymphocytic leukemia. Johnston JB, et al. **J Natl Cancer Inst** 1990 May 2;82(9):776–9

Growth inhibition and differentiation of murine melanoma B16–BL6 cells caused by the combination of cisplatin and caffeine. Tsuchiya H, et al. **Jpn J Cancer Res** 1989 Dec; 80(12):1246–51

Menogaril, an anthracycline compound with a novel mechanism of action: cellular pharmacology. Wierzba K, et al. **Jpn J Cancer Res** 1990 Aug;81(8):842–9

Chemotherapy: topoisomerases as targets [editorial] **Lancet** 1990 Jan 13;335(8681):82–3

Tumour–specific inhibition of lymphoma growth by an antisense oligodeoxynucleotide. McManaway ME, et al. **Lancet** 1990 Apr 7;335(8693):808–11

Mechanism of action of 5–AZA–dC: induced DNA hypomethylation does not lead to aberrant gene expression in human leukemic CEM cells. Bouchard J. **Leuk Res** 1989; 13(8):715–22

Modification of DNA by chloroethylnitrosoureas. Akaike Y. **Nippon Juigaku Zasshi** 1990 Apr;52(2):443–5

The effect of single versus double–strand substitution on halogenated pyrimidine–induced radiosensitization and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Radiat Res** 1990 Aug;123(2):192–8

Cytotoxicity, radiosensitization, and DNA interaction of platinum complexes of thiazin and xanthene dyes. Teicher BA, et al. **Radiat Res** 1990 Feb;121(2):187–95

Characterization of resistance to VP–16 in human leukemic cell line. Saijo Y, et al. **Tohoku J Exp Med** 1989 Dec; 159(4):299–306

A hypothesis regarding the protective role of metallothioneins against the toxicity of DNA interactive anticancer drugs. Basu A, et al. **Toxicol Lett** 1990 Feb; 50(2–3):123–35; discussion 121–2 (53 ref.)

Pharmacological modulators of DNA–interactive antitumor drugs. Lazo JS, et al. **Trends Pharmacol Sci** 1989 Sep; 10(9):369–73 (33 ref.)

[Effect of UFT on nuclear DNA distribution of gastric and colorectal carcinomas] Kosaka T, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):1955–8 (Eng. Abstr.) **(Jpn)**

[In situ nick translation for detection of DNA damages in glioma cells] Taki T, et al. **No To Shinkei** 1989 Nov; 41(11):1065–70 (Eng. Abstr.) **(Jpn)**

[Changes induced by sarcolysine in vivo in the composition of DNA–bound lipids in sarcoma 37] Struchkov VA, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):327–30 (Eng. Abstr.) **(Rus)**

[The effect of 3,4–disuccinyldianhydrogalactitol, N–nitrosourea and their combination on DNA synthesis in normal and mouse P388 tumor cells] Sokolova IS, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Jul–Aug;(4):527–33 (Eng. Abstr.) **(Rus)**

[The effect of proteinase inhibitors on the level of degradation and unscheduled synthesis of DNA in ultraviolet– and gamma–irradiated cellsof mouse ascitic carcinoma] Zakrzhevskaia DT, et al. **Radiobiologiia** 1989 Nov–Dec; 29(6):732–6 (Eng. Abstr.) **(Rus)**

[The effect of transforming growth factor beta on the intensity of cellular DNA synthesis in relation to the type and conditions of cultivation] Stolka RS, et al. **Tsitologiia** 1990;32(2):132–9 (Eng. Abstr.) **(Rus)**

GENETICS

DNA cytometry of musculoskeletal tumors. A review. Kreicbergs A. **Acta Orthop Scand** 1990 Jun;61(3):282–97 (85 ref.)

Epstein–Barr virus does not induce DNA rearrangement at immunoglobulin gene and oncogene loci in BJAB cellular subclones. Wang YF, et al. **Acta Paediatr Sin** 1988 Jul–Aug; 29(4):248–53

Identification of metaplastic variants generated by transfection of a nonmetastatic rat mammary epithelial cell line with DNA from a metastatic rat mammary cell line. Jamieson S, et al. **Am J Pathol** 1990 Sep;137(3):629–41

Bowenoid papulosis. Classification as a low–grade in situ carcinoma of the epidermis on the basis of histomorphologic and DNA ploidy studies. Böcking A, et al. **Anal Quant Cytol Histol** 1989 Dec;11(6):419–25

Cytologic, histologic, DNA ploidy and electron microscopic analyses of a case of vulvar Paget's disease. Kashimura Y, et al. **Anal Quant Cytol Histol** 1989 Dec;11(6):413–8

Analysis of the estrogen receptor gene structure in human breast cancer. Koh EH, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1841–5

Oncogenes of stomach cancers. Terada M, et al. **Basic Life Sci** 1990;52:313–20

Human peptidylglycine alpha–amidating monooxygenase: cDNA, cloning and functional expression of a truncated form in COS cells. Glauder J, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):551–8

Isolation and characterization of a cDNA clone encoding human aromatic L–amino acid decarboxylase. Ichinose H, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):1024–30

Demonstration of a new mouse mammary tumor virus locus in the genome of the mammary tumor prone strain SHN mouse. Koizumi A, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):336–41

Tumor hypersensitive DNA is enriched in c–myc sequences and reacts differentially with normal and malignant genomic DNA. Rieber M, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):352–9

Unbalanced transmethylation and the perturbation of the differentiated state leading to cancer. Hoffman RM. **Bioessays** 1990 Apr;12(4):163–6 (50 ref.)

The pattern of mutational involvement of RAS genes in human hematologic malignancies determined by DNA amplification and direct sequencing. Ahuja HG, et al. **Blood** 1990 Apr 15;75(8):1684–90

Molecular analysis of acute undifferentiated leukemia: two distinct subgroups at the DNA and RNA levels. Hara J, et al. **Blood** 1989 Oct;74(5):1738–46

Prognostic value of nucleolar organizer regions and ploidy values in advanced colorectal cancer. Moran K, et al. **Br J Surg** 1989 Nov;76(11):1152–5

Tissue carcinoembryonic antigen and DNA aneuploidy in precancerous and cancerous colorectal lesions. Fischbach W, et al. **Cancer** 1990 Apr 15;65(8):1820–4

Diploid predominance in hereditary nonpolyposis colorectal carcinoma evaluated by flow cytometry. Kouri M, et al. **Cancer** 1990 Apr 15;65(8):1825–9

Flow cytometric analysis of the DNA content of non–small cell lung cancer. Ploidy as a significant prognostic indicator in squamous cell carcinoma of the lung. Sahin AA, et al. **Cancer** 1990 Feb 1;65(3):530–7

Near–diploid tumor cell lines for cancer research. Parsons DF. **Cancer Cells** 1989 Nov;1(3):96–8 (53 ref.)

Human papillomavirus type 16 DNA is integrated into chromosome region 12q14–q15 in a cell line derived from a vulvar intraepithelial neoplasia. Sastre–Garau X, et al. **Cancer Genet Cytogenet** 1990 Feb;44(2):243–51

A comparison of levels of intrinsic single strand breaks/alkali labile sites associated with human melanoma cell invasion. Meade–Tollin LC, et al. **Cancer Lett** 1990 Aug;53(1):45–54

Studies on the pathogenesis of choriocarcinoma by analysis of restriction fragment length polymorphisms. Azuma C, et al. **Cancer Res** 1990 Feb 1;50(3):488–91

A deletion linked to a poly(ADP–ribose) polymerase gene on chromosome 13q33–qter occurs frequently in the normal black population as well as in multiple tumor DNA. Bhatia KG, et al. **Cancer Res** 1990 Sep 1;50(17):5406–13

Macrophage–mediated induction of DNA strand breaks in target tumor cells. Chong YC, et al. **Cancer Res** 1989 Dec 1;49(23):6652–7

Amplification of the c–myc oncogene during progression of radiation–induced rat skin tumors. Garte SJ, et al. **Cancer Res** 1990 May 15;50(10):3073–7

Reduction to homozygosity and gene amplification in central nervous system primitive neuroectodermal tumors of childhood. Raffel C, et al. **Cancer Res** 1990 Feb 1; 50(3):587–91

Isolation of a complementary DNA encoding the catalytic subunit of protein kinase A and studies on the expression of this sequence in rat hepatomas and regenerating liver. Roth JS, et al. **Cancer Res** 1990 Mar 15;50(6):1675–80

Molecular biology of the hst–1 gene. Sugimura T, et al. **Ciba Found Symp** 1990;150:79–89; discussion 89–98

Stellate– and foci–formation of mouse fibroblast cells transfected with various cancer cell DNA. Ding JL, et al. **Cytobios** 1989;59(237):101–14

Cloning of cDNA and genomic DNA for human cytochrome P–45011 beta. Kawamoto T, et al. **FEBS Lett** 1990 Sep 3;269(2):345–9

cDNA cloning and sequencing of component C5 of proteasomes from rat hepatoma cells. Tamura T, et al. **FEBS Lett** 1990 May 7;264(1):91–4

Infrequent point mutations of ras oncogenes in gastric cancers. Nanus DM, et al. **Gastroenterology** 1990 Apr; 98(4):955–60

Isolation of a human vimentin cDNA with a long 3'–noncoding region from a human osteosarcoma cell line (MG–63). Gupta AK, et al. **Gene** 1990 Feb 14;86(2):303–4

Differential screening of murine ascites cDNA libraries by means of in vitro transcripts of cell–cycle–phase–specific cDNA and digital image processing. Lu X, et al. **Gene** 1990 Feb 14;86(2):185–92

Molecular analysis of the translocation breakpoint in a Philadelphia–positive, bcr–negative ALL patient. van der Feltz MJ, et al. **Hematol Bluttransfus** 1989;32:331–4

Increased detectability of somatic changes in the DNA from human tumours after probing with "synthetic" and "genome–derived" hypervariable multilocus probes. Lagoda PJ, et al. **Hum Genet** 1989 Dec;84(1):35–40

Prognostic significance of DNA–ploidy in a series of 690 primary breast cancer patients. Beerman H, et al. **Int J Cancer** 1990 Jan 15;45(1):34–9

Transforming activity of nasopharyngeal carcinoma DNA detectable in mouse JB6 cells. Colburn NH, et al. **Int J Cancer** 1989 Dec 15;44(6):1012–6

Amplification of c–myc and c–erbB–2 proto–oncogenes in human solid tumors: frequency and clinical significance. Gutman M, et al. **Int J Cancer** 1989 Nov 15;44(5):802–5

T2/T3 bladder carcinomas treated with definitive radiotherapy with emphasis on flow cytometric DNA ploidy values. Jacobsen AB, et al. **Int J Radiat Oncol Biol Phys** 1989 Nov;17(5):923–9

Glucose phosphorylation in tumor cells. Cloning, sequencing, and overexpression in active form of a full–length cDNA encoding a mitochondrial bindable form of hexokinase. Arora KK, et al. **J Biol Chem** 1990 Apr 15;265(11):6481–8

DNA methylation and collagen IV gene expression in F9 teratocarcinoma cells. Burbelo PD, et al. **J Biol Chem** 1990 Mar 25;265(9):4839–43

Affinity purification, peptide analysis, and cDNA sequence of the mouse interferon gamma receptor. Cofano F, et al. **J Biol Chem** 1990 Mar 5;265(7):4064–71

Cloning and sequencing of a human pancreatic tumor mucin cDNA. Lan MS, et al. **J Biol Chem** 1990 Sep 5; 265(25):15294–9

Type beta 1 transforming growth factor gene expression. A corrected mRNA structure reveals a downstream phorbol ester responsive element in human cells. Scotto L, et al. **J Biol Chem** 1990 Feb 5;265(4):2203–8

Identification of a human insulinoma cDNA encoding a novel mammalian protein structurally related to the yeast dibasic processing protease Kex2. Smeekens SP, et al. **J Biol Chem** 1990 Feb 25;265(6):2997–3000

Transfer and expression of a murine UDP–Gal:beta–D–Gal–alpha 1,3–galactosyltransferase gene in transfected Chinese hamster ovary cells. Competition reactions between the alpha 1,3–galactosyltransferase and the endogenous alpha 2,3–sialyltransferase. Smith DF, et al. **J Biol Chem** 1990 Apr 15;265(11):6225–34

Tumour DNA content and skeletal metastases in renal cell carcinoma. A preliminary report. Ljungberg B, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):111–5

Double minutes arise from circular extrachromosomal DNA intermediates which integrate into chromosomal sites in human HL–60 leukemia cells. Von Hoff DD, et al. **J Clin Invest** 1990 Jun;85(6):1887–95

Correlation of in vitro bromodeoxyuridine labeling index and DNA aneuploidy with survival or recurrence in brain–tumor patients. Nishizaki T, et al. **J Neurosurg** 1990 Sep;73(3):396–400

Changes in the DNA ploidy patterns of human colorectal carcinomas, subsequent to culture or xenografting. Foster HM, et al. **J Surg Oncol** 1990 Sep;45(1):4–9

DNA ploidy in gastric cancer with metastasis to the liver. Kimura O, et al. **J Surg Oncol** 1990 Jun;44(2):69–72

Deoxyribonucleic acid ploidy pattern of cardiac myxomas. Another predictor of biologically unusual myxomas. McCarthy PM, et al. **J Thorac Cardiovasc Surg** 1989 Dec; 98(6):1083–6

Prognostic factors in patients with primary transitional cell carcinoma of the upper urinary tract. Badalament RA, et al. **J Urol** 1990 Oct;144(4):859–63

Flow cytometric assessment of deoxyribonucleic acid content in renal adenocarcinoma: does ploidy status enhance prognostic stratification over stage alone? Currin SM, et al. **J Urol** 1990 Mar;143(3):458–63

The relationship of deoxyribonucleic acid content to conventional prognostic factors in Wilms tumor. Layfield LJ, et al. **J Urol** 1989 Oct;142(4):1040–3

Squamous cell carcinoma of the renal pelvis: nuclear deoxyribonucleic acid ploidy studied by flow cytometry. Nativ O, et al. **J Urol** 1990 Jul;144(1):23–6

Characterization of squamous cell bladder tumors by flow cytometric deoxyribonucleic acid analysis: a report of 100 cases. Shaaban AA, et al. **J Urol** 1990 Oct;144(4):879–83

Prediction of lymph node metastases in bladder carcinoma with deoxyribonucleic acid flow cytometry. Shaaban AA, et al. **J Urol** 1990 Oct;144(4):884–7

Expression of the int–1 and int–2 loci in endogenous mouse mammary tumor virus–induced mammary tumorigenesis in the C3Hf mouse. Etkind PR. **J Virol** 1989 Nov; 63(11):4972–5

Frequency and types of point mutation at the 12th codon of the c–Ki–ras gene found in pancreatic cancers from Japanese patients. Mariyama M, et al.

Jpn J Cancer Res 1989 Jul;80(7):622–6
Rearranged Epstein–Barr virus genomes and clonal origin in nasopharyngeal carcinoma. Shimakage M, et al. Jpn J Cancer Res 1989 Jul;80(7):612–6
DNA ploidy patterns in gallbladder adenocarcinoma. Yamamoto M, et al. Jpn J Clin Oncol 1990 Mar;20(1):83–6
New molecular marker in AML: DNA–fingerprint differences between leukemic phase and remission in acute myeloid leukemia. Pakkala S, et al. Leuk Res 1989; 13(10):907–13
Stage C prostatic adenocarcinoma: flow cytometric nuclear DNA ploidy analysis. Nativ O, et al. Mayo Clin Proc 1989 Aug;64(8):911–9
Comparison of image analysis of imprints with flow cytometry for DNA analysis of solid tumors. Claud RD 3d, et al. Mod Pathol 1989 Sep;2(5):463–7
A study of colonic adenocarcinoma, with comparison of histopathology, DNA flow cytometric data, and number of nucleolar organizer regions (NORs). Kram N, et al. Mod Pathol 1989 Sep;2(5):468–72
Gastrointestinal stromal tumors: DNA flow–cytometric study of 58 patients with at least five years of follow–up. el–Naggar AK, et al. Mod Pathol 1989 Sep;2(5):511–5
Histologic parameters and DNA ploidy as predictors of survival in stage B adenocarcinoma of colon and rectum. Robey–Cafferty SS, et al. Mod Pathol 1990 May;3(3):261–6
Differential utilization of calcitonin gene regulatory DNA sequences in cultured lines of medullary thyroid carcinoma and small–cell lung carcinoma. de Bustros A, et al. Mol Cell Biol 1990 Apr;10(4):1773–8
mXBP/CRE–BP2 and c–Jun form a complex which binds to the cyclic AMP, but not to the 12–O–tetradecanoylphorbol–13–acetate, response element. Ivashkiv LB, et al. Mol Cell Biol 1990 Apr;10(4):1609–21
N–myc mRNA forms an RNA–RNA duplex with endogenous antisense transcripts. Krystal GW, et al. Mol Cell Biol 1990 Aug;10(8):4180–91
Single amino acid substitution defines a naturally occurring genetic variant of human thymidylate synthase. Barbour KW, et al. Mol Pharmacol 1990 Apr;37(4):515–8
DNA alterations in prostatic adenocarcinoma and benign prostatic hyperplasia: detection by DNA fingerprint analyses. White JJ, et al. Mutat Res 1990 Jan;237(1):37–43
Hepatitis B virus integration in a cyclin A gene in a hepatocellular carcinoma. Wang J, et al. Nature 1990 Feb 8;343(6258):555–7
Analysis of gene amplification in human tumor cells by in–gel DNA renaturation assay. Fukumoto M, et al. Nippon Ketsueki Gakkai Zasshi 1989 Dec;52(8):1463–70
Nucleotide sequence of Y3–Ag 1.2.3. rat myeloma immunoglobulin kappa chain cDNA. Crowe JS, et al. Nucleic Acids Res 1989 Oct 11;17(19):7992
Reciprocal product of a t(12;15) in murine plasmacytoma TEPC 1033:5'c–myc to IgH enhancer region. Gilliam AC, et al. Nucleic Acids Res 1989 Sep 25;17(18):7533
cDNA sequence coding for a translationally controlled human tumor protein. Gross B, et al. Nucleic Acids Res 1989 Oct 25;17(20):8367
Detection of minority point mutations by modified PCR technique: a new approach for a sensitive diagnosis of tumor–progression markers. Haliassos A, et al. Nucleic Acids Res 1989 Oct 25;17(20):8093–9
Nck, a melanoma cDNA encoding a cytoplasmic protein consisting of the src homology units SH2 and SH3. Lehmann JM, et al. Nucleic Acids Res 1990 Feb 25; 18(4):1048
Nucleotide sequence of a cDNA encoding a protein with primary structural similarity to G–protein coupled receptors. Murphy PM, et al. Nucleic Acids Res 1990 Apr 11;18(7):1896
Polymerase chain reaction based assay to detect allelic loss in human DNA: loss of beta–interferon gene in chronic myelogenous leukemia. Neubauer A, et al. Nucleic Acids Res 1990 Feb 25;18(4):993–8
Application for PCR technology to subtractive cDNA cloning: identification of genes expressed specifically in murine plasmacytoma cells. Timblin C, et al. Nucleic Acids Res 1990 Mar 25;18(6):1587–93
Molecular cloning and sequencing of the murine c–fgr gene. King FJ, et al. Oncogene 1990 Mar;5(3):337–44
Isolation of human fos–related genes and their expression during monocyte–macrophage differentiation. Matsui M, et al. Oncogene 1990 Mar;5(3):249–55
Transforming genes from familial adenomatous polyposis patient cells detected by a tumorigenicity assay. Yuasa Y, et al. Oncogene 1990 Apr;5(4):589–96
DNA flow cytometry of endoscopically examined colorectal adenocarcinomas. Giaretti W, et al. Pathol Res Pract 1989 Nov;185(5):589–93
Characterization of ROS1 cDNA from a human glioblastoma cell line. Birchmeier C, et al. Proc Natl Acad Sci U S A 1990 Jun;87(12):4799–803
A trans–activator function is generated by integration of hepatitis B virus preS/S sequences in human hepatocellular carcinoma DNA. Caselmann WH, et al. Proc Natl Acad Sci U S A 1990 Apr;87(8):2970–4
Cisplatin–resistant cells express increased levels of a factor that recognizes damaged DNA. Chu G, et al. Proc Natl Acad Sci U S A 1990 May;87(9):3324–8
Ribonucleoprotein and protein factors bind to an H–DNA–forming c–myc DNA element: possible regulators of the c–myc gene. Davis TL, et al. Proc Natl Acad Sci U S A 1989 Dec;86(24):9682–6
Hamster cell line suitable for transfection assay of transforming genes. Higashi T, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2409–13
Quantitative analysis of MDR1 (multidrug resistance) gene expression in human tumors by polymerase chain reaction. Noonan KE, et al. Proc Natl Acad Sci U S A 1990 Sep; 87(18):7160–4
Isolation and characterization of s–myc, a member of the rat myc gene family. Sugiyama A, et al. Proc Natl Acad Sci U S A 1989 Dec;86(23):9144–8
Molecular cloning of cDNA for the human tumor–associated antigen CO–029 and identification of related transmembrane antigens. Szala S, et al. Proc Natl Acad Sci U S A 1990 Sep;87(17):6833–7
Molecular cloning of cDNA for the carcinoma–associated antigen GA733–2. Szala S, et al. Proc Natl Acad Sci U S A 1990 May;87(9):3542–6
Isolation and structural characterization of a cDNA clone encoding the human DNA repair protein for O6–alkylguanine [published erratum appears in Proc Natl Acad Sci U S A 1990 Apr;87(8):3253] Tano K, et al. Proc Natl Acad Sci U S A 1990 Jan;87(2):686–90
Isolation of cDNAs encoding a human protein that binds selectively to DNA modified by the anticancer drug cis–diamminedichloroplatinum(II) [published erratum appears in Proc Natl Acad Sci U S A 1990 Feb;87(4):1625] Toney JH, et al. Proc Natl Acad Sci U S A 1989 Nov; 86(21):8328–32
Characterization of the morphonuclear features and DNA ploidy of prostatic disease. Petein M, et al. Prostate 1990; 16(3):199–208
Association between tumor DNA aneuploidy and in vitro tetraploidy of skin fibroblasts in patients with colorectal neoplasms. Svendsen LB, et al. Scand J Gastroenterol 1989 Aug;24(6):755–60
Identification of a chromosome 18q gene that is altered in colorectal cancers. Fearon ER, et al. Science 1990 Jan 5; 247(4938):49–56
Prostatic dysplasia: significance in relation to nuclear DNA ploidy studies of prostate adenocarcinoma. Lieber MM. Urology 1989 Dec;34(6 Suppl):43–8
DNA ploidy pattern and amplification of ERBB and ERBB2 genes in human gastric carcinomas. Oda N, et al. Virchows Arch [B] 1990;58(4):273–7
[Transforming potential of DNA from solid tumor of human gastric carcinoma] Wu CJ. Chung Hua Chung Liu Tsa Chih 1989 Jul;11(4):242–4 (Eng. Abstr.) (Chi)
[Tumor cytogenetics and prognosis in neuroblastoma] Christiansen H, et al. Monatsschr Kinderheilkd 1989 Oct; 137(10):666–71 (Eng. Abstr.) (Ger)
[Significance of molecular genetics in leukemia and malignant lymphoma] Bartram CR. Verh Dtsch Ges Inn Med 1989; 95:327–32 (40 ref.) (Ger)
[DNA ploidy pattern of gastric carcinomas and its relations with histological type and invasion pattern] Hirose K, et al. Nippon Geka Gakkai Zasshi 1990 Mar;91(3):348–53 (Eng. Abstr.) (Jpn)
[Loss of heterozygosity in human tumors] Sasaki M, et al. Rinsho Byori 1989 Feb;Spec No 80:47–57 (Jpn)
[Study of transcription of the DNA sequence of a mts271 clone in various tumor and normal mouse cells] Grigorian MS, et al. Genetika 1989 Jun;25(6):993–1000 (Eng. Abstr.) (Rus)

ISOLATION & PURIFICATION

Method of extracting DNA from fine needle aspirates of human solid tumors for Southern blot analysis. Harnett PR, et al. Anal Quant Cytol Histol 1989 Dec;11(6):375–8
Isolation of genes highly expressed in early and late stages of Friend virus–induced erythroleukemia in mice. Misawa Y, et al. Biochem Biophys Res Commun 1990 Jul 16; 170(1):39–45
DNA fingerprinting of 7,12–dimethylbenz[a]anthracene–induced and spontaneous CD–1 mouse liver tumors. Ledwith BJ, et al. Cancer Res 1990 Sep 1;50(17):5245–9
Lack of I–compounds in DNA from a spectrum of Morris hepatomas. Randerath K, et al. Carcinogenesis 1990 Jun; 11(6):1041–4
Analysis of integrated human papillomavirus type 16 DNA in cervical cancers: amplification of viral sequences together with cellular flanking sequences. Wagatsuma M, et al. J Virol 1990 Feb;64(2):813–21
Isolation of an amplified DNA sequence in stomach cancer. Nakatani H, et al. Jpn J Cancer Res 1990 Aug;81(8):707–10
Primary structures of the heterogeneous nuclear ribonucleoprotein A2, B1, and C2 proteins: a diversity of RNA binding proteins is generated by small peptide inserts. Burd CG, et al. Proc Natl Acad Sci U S A 1989 Dec; 86(24):9788–92
[Isolation, identification and electrophoretic properties of DNA excreted by human lymphocytes] Ianeva IS, et al. Biokhimiia 1990 Apr;55(4):745–53 (Eng. Abstr.) (Rus)

METABOLISM

"The derivative assay"—an analysis of two fast components of DNA rejoining kinetics. Sandström BE. Anal Biochem 1989 Nov 1;182(2):233–6
DNA methylation of the Ha–ras–1 oncogene in neoplastic cells. Barbieri R, et al. Anticancer Res 1989 Nov–Dec; 9(6):1787–91
DNA distribution pattern and comparison of quantitative data in breast tumours. Megyesi J, et al. Arch Geschwulstforsch 1990;60(3):217–22
Induction of DNA–protein crosslinks by antitumor 1–nitro–9–aminoacridines in L1210 leukemia cells. Woynarowski JM, et al. Biochem Pharmacol 1989 Nov 15; 38(22):4095–101
Different methylation of oestrogen receptor DNA in human breast carcinomas with and without oestrogen receptor. Piva R, et al. Br J Cancer 1990 Feb;61(2):270–5
Cellular metabolism of 1–beta–D–arabinofuranosyl–5–azacytosine and incorporation into DNA and RNA of human lymphoid CEM/0 and CEM/dCk(–) cells. Avramis VI, et al. Cancer Chemother Pharmacol 1989;25(1):19–24
Increased ATP requirement for activity of and complex formation by DNA topoisomerase II from human leukemic CCRF–CEM cells selected for resistance to teniposide. Danks MK, et al. Cancer Commun 1989;1(2):101–9
Resistance of tumor–derived DNA to restriction enzyme digestion. Parkes JL, et al. Cancer Invest 1990;8(2):169–72
DNA topoisomerase II–mediated interaction of doxorubicin and daunorubicin congeners with DNA. Bodley A, et al. Cancer Res 1989 Nov 1;49(21):5969–78
cis–diamminedichloroplatinum(II) cross–linking of the human myeloid cell nuclear differentiation antigen to DNA in HL–60 cells following 1,25–dihydroxy vitamin D3–induced monocyte differentiation. Gaczynski M, et al. Cancer Res 1990 Feb 15;50(4):1183–8
Combined modulation of S–adenosylmethionine biosynthesis and S–adenosylhomocysteine metabolism enhances inhibition of nucleic acid methylation and L1210 cell growth. Kramer DL, et al. Cancer Res 1990 Jul 1; 50(13):3838–42
Paradoxical increase in DNA cross–linking in a human ovarian carcinoma cell line resistant to cyanomorpholino doxorubicin. Lau DH, et al. Cancer Res 1990 Jul 1; 50(13):4056–60
Increased removal of DNA–bound platinum in a human ovarian cancer cell line resistant to cis–diamminedichloroplatinum(II). Masuda H, et al. Cancer Res 1990 Mar 15;50(6):1863–6
Drug–induced DNA hypermethylation and drug resistance in human tumors. Nyce J. Cancer Res 1989 Nov 1; 49(21):5829–36
Correlation between cell killing by cis–diamminedichloroplatinum(II) in six mammalian cell lines and binding of a cis–diamminedichloroplatinum(II)–DNA antiserum. Terheggen PM, et al. Cancer Res 1990 Jun 15; 50(12):3556–61
The cell cycle dependence of c–sis gene expression: artifactual conclusions in cells prepared by chemical but not physical techniques. Press RD, et al. Cell Tissue Kinet 1990 Jul;23(4):299–312
Constitutive in vitro binding of nuclear proteins to the 5'–flanking region of 6–16, a human gene inducible by alpha, beta–interferons. Chernajovsky Y. FEBS Lett 1989 Dec 4;258(2):323–30
Incorporation of iododeoxyuridine into neoplastic DNA: a fraudulent magic bullet? Calabresi P, et al. Hepatology 1990 Jan;11(1):145–6
The dependence of halogenated pyrimidine incorporation and radiosensitization on the duration of drug exposure. Lawrence TS, et al. Int J Radiat Oncol Biol Phys 1990 Jun;18(6):1393–8
Role of DNA–binding in the cytotoxicity of an anthracycline, R20X2 and its morpholino analog, MX2. Komeshima N, et al. J Antibiot (Tokyo) 1989 Sep;42(9):1424–9
A pancreatic islet cell–specific enhancer–like element in the glucagon gene contains two domains binding distinct cellular proteins. Knepel W, et al. J Biol Chem 1990 May 25;265(15):8725–35
H–ras protooncogene mutations in human thyroid neoplasms. Namba H, et al. J Clin Endocrinol Metab 1990 Jul; 71(1):223–9
Gonadotropin–releasing hormone regulates gonadotropin beta–subunit and chromogranin–B messenger ribonucleic acids in cultured chromogranin–A–positive pituitary adenomas. Song JY, et al. J Clin Endocrinol Metab 1990 Sep;71(3):622–30
Ligand–dependent interaction of the dioxin receptor with target DNA. Cuthill S, et al. J Steroid Biochem 1989; 34(1–6):375–7
Change in methylation status of DNA of remaining allele in human lung cancers with loss of heterozygosity on chromosomes 3p and 13q. Shiraishi M, et al. Jpn J Cancer Res 1989 Oct;80(10):924–7
DNA binding of heat shock factor to the heat shock element is insufficient for transcriptional activation in murine erythroleukemia cells. Hensold JO, et al. Mol Cell Biol 1990 Apr;10(4):1600–8
Resistance of a human ovarian cancer line to 5–fluorouracil associated with decreased levels of 5–fluorouracil in DNA. Chu E, et al. Mol Pharmacol 1990 Sep;38(3):410–7
Five of 12 forms of vaccinia virus–expressed human hepatic cytochrome P450 metabolically activate aflatoxin B1. Aoyama T, et al. Proc Natl Acad Sci U S A 1990 Jun; 87(12):4790–3
Changes in DNA content of lung adenocarcinoma cells

following exposure to anti-cancer drugs. Yang SC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Jan;89(1):6–11

[Basic study on the chemosensitivity test by miniaturized improved nucleic acid precursor incorporation assay (MINI assay)] Mogi M, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):89–95 (Eng. Abstr.) **(Jpn)**

[Topographical differences in cellular DNA content between the radial growth phase and the vertical growth phase of superficial spreading melanoma] Chi HI, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Apr;99(4):493–7 (Eng. Abstr.) **(Jpn)**

[The role of protein binding with single-stranded DNA (SSB-protein) in DNA replication in Ehrlich ascites carcinoma cells] Koterov AN, et al. **Biokhimiia** 1990 May; 55(5):911–6 (Eng. Abstr.) **(Rus)**

[DNA degradation and changes in the permeability and form of Ehrlich ascites tumor cells when incubated in an anaerobic medium without glucose] Proskurikov SIa, et al. **Tsitologiia** 1989 Jun;31(6):690–5 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Characterization of the thymus leukemia (TL) product encoded by the BALB/c T3c gene by DNA-mediated gene transfer. Comparison to the T13c product and BALB/c leukemia TL. Chorney MJ, et al. **J Immunol** 1989 Dec 1;143(11):3762–8

RADIATION EFFECTS

Comparative analysis of the inherent radiosensitivity of ovarian carcinoma. Rotmensch J, et al. **Gynecol Obstet Invest** 1989;28(4):215–8

Initial damage or repair as the major determinant of cellular radiosensitivity? Peacock JH, et al. **Int J Radiat Biol** 1989 Nov;56(5):543–7

UV light and ionizing radiations cause programmed death of rat chloroleukaemia cells by inducing retropositions of a mobile DNA element (L1Rn). Servomaa K, et al. **Int J Radiat Biol** 1990 Feb;57(2):331–43

DNA index—parameter for the prediction of prognosis and primary radioresistance? Wagner W. **J Cancer Res Clin Oncol** 1990;116(4):315–7

Cellular and adenovirus dl312 DNA metabolism in cycling or mitotic human cultures exposed to supralethal gamma radiation. Ross PM. **J Cell Biol** 1989 Nov;109(5):1993–2002

Effect of inhibition of DNA synthesis on recovery of X-irradiated L5178Y-S cells. I. Aphidicolin. Kapiszewska M, et al. **Neoplasma** 1989;36(5):557–64

Effect of inhibition of DNA synthesis on recovery of X-irradiated L5178Y-S cells, II. 9-beta-D-arabinofuranosyladenine. Kapiszewska M, et al. **Neoplasma** 1989;36(5):565–72

UV-induced DNA repair in leukemic cell differentiation. Nakamaki T, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Sep;52(6):977–87

Induction of DNA-protein crosslinks in melanotic cloudman S91 mouse melanoma cells and EMT6 mouse mammary carcinoma cells by monochromatic 254 and 405 nm light. Hill HZ, et al. **Pigment Cell Res** 1989 Sep-Oct;2(5):427–30

The effect of dose rate on X-radiation-induced mutant frequency and the nature of DNA lesions in mouse lymphoma L5178Y cells. Evans HH, et al. **Radiat Res** 1990 Jun;122(3):316–25

Protection by WR-3689 against gamma-ray-induced intestinal damage: comparative effect on clonogenic cell survival, mouse survival, and DNA damage. Murray D, et al. **Radiat Res** 1989 Nov;120(2):339–51

[Recovery from potentially lethal damage of irradiated L5178Y-R and L5178Y-S cells: the effect of temperature and benzamide] Afanas'ev GG, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):776–81 (Eng. Abstr.) **(Rus)**

[Participation of the SSB protein in the repair of the DNA in Ehrlich ascites carcinoma cells following gamma radiation] Novoradovskaia NA, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):729–31 (Eng. Abstr.) **(Rus)**

[Participation of the SSB protein in the repair of the DNA of Ehrlich ascites carcinoma cells following UV irradiation] Novoradovskaia NA, et al. **Radiobiologiia** 1989 Nov-Dec; 29(6):723–8 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Carotid body paragangliomas. A clinicopathologic and DNA analysis of 13 tumors. Barnes L, et al. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):447–53

Interpretation of microscopic image analysis of cell nuclei. Hause LL, et al. **Comput Med Imaging Graph** 1990 Jul-Aug; 14(4):225–30

Nuclear deoxyribonucleic acid ploidy and serum prostate specific antigen in operable prostatic adenocarcinoma. Nativ O, et al. **J Urol** 1990 Aug;144(2 Pt 1):303–6

Deoxyribonucleic acid ploidy and the direct assay of prostatic acid phosphatase and prostate specific antigen in fine needle aspiration biopsies as diagnostic methods in prostatic carcinoma. Stege R, et al. **J Urol** 1990 Aug;144(2 Pt 1):299–302

DNA in human glioblastomas. A flow-fluorescence cytometrical examination of 96 tumors. Spaar FW, et al. **Neurosurg Rev** 1990;13(2):123–39

The spatial distribution of exposed nuclear DNA in normal, cancer, and reverse-transformed cells. Krystosek A, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6560–4

DNA ploidy and S phase fraction in human bladder cancer. Relation to survival and histological grade (WHO). Lipponen PK, et al. **Urol Int** 1990;45(1):4–9

URINE

[Flow cytometry in micturitional urine: its clinical application in cases of bladder cancer] Dadone C, et al. **Minerva Urol Nefrol** 1990 Apr-Jun;42(2):77–80 (Eng. Abstr.) **(Ita)**

DNA NICKING-CLOSING PROTEINS see **DNA UNTWISTING PROTEINS**

DNA NUCLEOTIDYLEXOTRANSFERASE

An effective method for eliminating "artifact banding" when sequencing double-stranded DNA templates. Fawcett TW, et al. **Biotechniques** 1990 Jul;9(1):46–8

ANALYSIS

Improved avidin-biotin immunoperoxidase method for terminal deoxyribonucleotidyl transferase and immunophenotypic characterization of blood cells. Miller RT, et al. **Am J Clin Pathol** 1990 May;93(5):670–4

Double marker analysis for terminal deoxynucleotidyl transferase and myeloid antigens in acute nonlymphocytic leukemia patients and healthy subjects. Adriaansen HJ, et al. **Hamatol Bluttransfus** 1990;33:41–9

Terminal deoxynucleotidyl transferase positive subpopulations occur in the majority of ANLL: implications for the detection of minimal disease. Adriaansen HJ, et al. **Leukemia** 1990 Jun;4(6):404–10

Nuclear matrix bound terminal deoxynucleotidyl transferase in rat thymus nuclei. II. Effect of ATP on free and matrix bound TdT. Dave VP, et al. **Mol Biol Rep** 1988–89; 13(4):185–90

Nuclear matrix bound terminal deoxynucleotidyl transferase in rat thymus nuclei. I. A possible site for TdT mediated function. Pandey VN, et al. **Mol Biol Rep** 1988–89; 13(4):179–84

[Various properties of immobilized terminal deoxynucleotidyl transferase from the cattle thymus] Akishev AG. **Prikl Biokhim Mikrobiol** 1990 Jan-Feb;26(1):33–8 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Terminal transferase as a therapeutic target in leukemia cells. McCaffrey R, et al. **Prog Clin Biol Res** 1990;352:409–16

BLOOD

[Terminal deoxynucleotidyl transferase and the diagnosis of leukemia] Sakamoto S. **Nippon Rinsho** 1989 Dec;48 Suppl:1017–20 **(Jpn)**

GENETICS

Demonstration of promoter function for the 5'-flanking region of the human gene for terminal deoxynucleotidyl transferase. Koiwai O, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):863–8

Tissue-specific expression of human terminal deoxynucleotidyl transferase is regulated at the transcriptional level. Trangas T, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):750–7

Phorbol esters induce changes in adenosine deaminase, purine nucleoside phosphorylase, and terminal deoxynucleotidyl transferase messenger RNA levels in human leukemic cell lines. Madrid-Marina V, et al. **Cancer Res** 1990 May 15; 50(10):2891–4

RNA-dependent polymerase motifs in EST1: tentative identification of a protein component of an essential yeast telomerase [letter] Lundblad V, et al. **Cell** 1990 Feb 23; 60(4):529–30

Functional evidence for an RNA template in telomerase. Shippen-Lentz D, et al. **Science** 1990 Feb 2; 247(4942):546–52

METABOLISM

CD7-positive acute leukemia lacking T cell receptor gene rearrangements and terminal deoxynucleotidyl transferase expression suggesting pre-T cell origin. Jacobs JC, et al. **Am J Hematol** 1989 Nov;32(3):212–6

Is terminal deoxynucleotidyl transferase an intracellular mutagen? Chang LM, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):271–7

Telomere G-strand structure and function analyzed by chemical protection, base analogue substitution, and utilization by telomerase in vitro. Henderson ER, et al. **Biochemistry** 1990 Jan 23;29(3):732–7

Dynamics of early B lymphocyte precursor cells in mouse bone marrow: proliferation of cells containing terminal deoxynucleotidyl transferase. Park YH, et al. **Eur J Immunol** 1989 Nov;19(11):2139–44

Recognition and elongation of telomeres by telomerase. Blackburn EH, et al. **Genome** 1989;31(2):553–60

Phorbol ester regulation of terminal deoxynucleotidyl transferase, proliferation, and TcR alpha in a pre-T cell line. Beland JL, et al. **J Cell Physiol** 1990 Mar; 142(3):523–32

Lack of correlation between immunoglobulin and T cell receptor gene rearrangements and TdT expression in acute myeloid leukaemia. Davey G, et al. **Leuk Res** 1990; 14(1):77–83

Terminal deoxynucleotidyl transferase and CD7 expression in acute myeloid leukemias are not associated with a high frequency of immunoglobulin and/or T cell receptor gene rearrangement. Willière G, et al. **Leukemia** 1990 Apr; 4(4):278–81

Telomerase RNA: tying up the loose ends [news] Gall JG. **Nature** 1990 Mar 8;344(6262):108–9

In vivo alteration of telomere sequences and senescence caused by mutated Tetrahymena telomerase RNAs. Yu GL, et al. **Nature** 1990 Mar 8;344(6262):126–32

DNA NUCLEOTIDYLTRANSFERASES

Bacteriophage lambda int protein may recognize structural features of the attachment sites. Nussinov R, et al. **J Biomol Struct Dyn** 1986 Jun;3(6):1133–44

ANALYSIS

A novel fluorescence-based system for assaying and separating live cells according to VDJ recombinase activity. Yancopoulos GD, et al. **Mol Cell Biol** 1990 Apr; 10(4):1697–704

BIOSYNTHESIS

Characterization of an internally initiated integrase protein of HIV-1 produced in E. coli. Zervos P, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1061–6

GENETICS

Molecular characterization of two proteins involved in the excision of the conjugative transposon Tn1545: homologies with other site-specific recombinases. Poyart-Salmeron C, et al. **EMBO J** 1989 Aug;8(8):2425–33

Characterization of the staphylococcal beta-lactamase transposon Tn552. Rowland SJ, et al. **EMBO J** 1989 Sep; 8(9):2761–73

Control of prophage integration and excision in bacteriophage P2: nucleotide sequences of the int gene and att sites. Yu A, et al. **Gene** 1989 Aug 1;80(1):1–11

The Bacillus subtilis gene for the development transcription factor sigma K is generated by excision of a dispensable DNA element containing a sporulation recombinase gene. Kunkel B, et al. **Genes Dev** 1990 Apr;4(4):525–35

HIV-I replication requires an intact integrase reading frame. Buchow HD, et al. **Hamatol Bluttransfus** 1989;32:402–5

Genetic analysis of bacteriophage lambda integrase interactions with arm-type attachment site sequences. Lee EC, et al. **J Bacteriol** 1990 Mar;172(3):1529–38

Characterization of the cryptic lambdoid prophage DLP12 of Escherichia coli and overlap of the DLP12 integrase gene with the tRNA gene argU. Lindsey DF, et al. **J Bacteriol** 1989 Nov;171(11):6197–205

Structural and functional characterization of tnpI, a recombinase locus in Tn21 and related beta-lactamase transposons. Mercier J, et al. **J Bacteriol** 1990 Jul; 172(7):3745–57

The cisA cistron of Bacillus subtilis sporulation gene spoIVC encodes a protein homologous to a site-specific recombinase. Sato T, et al. **J Bacteriol** 1990 Feb; 172(2):1092–8

Sequence analysis and comparison of int and xis genes from staphylococcal bacteriophages L54a and phi 11. Ye ZH, et al. **J Bacteriol** 1990 May;172(5):2568–75

Characterization of a transpositionally active Ty3 element and identification of the Ty3 integrase protein. Hansen LJ, et al. **J Virol** 1990 Jun;64(6):2599–607

Sequence-specific binding of DNA by the Moloney murine leukemia virus integrase protein. Krogstad PA, et al. **J Virol** 1990 Jun;64(6):2796–801

Characterization of Holliday structures in FLP protein-promoted site-specific recombination. Meyer-Leon L, et al. **Mol Cell Biol** 1990 Jan;10(1):235–42

A novel family of potentially mobile DNA elements encoding site-specific gene-integration functions: integrons. Stokes HW, et al. **Mol Microbiol** 1989 Dec;3(12):1669–83

A protein binding to the J kappa recombination sequence of immunoglobulin genes contains a sequence related to the integrase motif. Matsunami N, et al. **Nature** 1989 Dec 21-28;342(6252):934–7

Nucleotide sequence of the integrase (IN) gene of an endogenous murine leukemia retroviral DNA. Kedar P, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4022

Characterization of amplified intracisternal A-particle elements encoding integrase. Lueders KK, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9267–77

A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda. Numrych TE, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):3953–9

RAG-1 and RAG-2, adjacent genes that synergistically activate V(D)J recombination. Oettinger MA, et al. **Science** 1990 Jun 22;248(4962):1517–23

Bending and supercoiling of DNA at the attachment site of bacteriophage lambda. Nash HA. **Trends Biochem Sci** 1990 Jun;15(6):222–7 (41 ref.)

METABOLISM

Orientation of the putative recognition helix in the DNA-binding domain of Hin recombinase complexed with the hix site. Mack DP, et al. **Biochemistry** 1990 Jul 17; 29(28):6561–7

Terminal deoxynucleotidyltransferase containing megadalton complex from young rat thymus nuclei: identification and characterization. Pandey VN, et al. **Biochemistry** 1990 May 1;29(17):4037–41

Importance of minor-groove contacts for recognition of DNA by the binding domain of Hin recombinase. Sluka JP, et al. **Biochemistry** 1990 Jul 17;29(28):6551–61

The FLP recombinase of yeast catalyzes site-specific recombination in the Drosophila genome. Golic KG, et al. **Cell** 1989 Nov 3;59(3):499–509

The human telomere terminal transferase enzyme is a ribonucleoprotein that synthesizes TTAGGG repeats. Morin GB. **Cell** 1989 Nov 3;59(3):521–9

Control of VDJ recombinase activity. Ferrier P, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 1:191–202

Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase. Dale EC, et al. **Gene** 1990 Jul 2;91(1):79–85

Telomeres: structure and synthesis. Blackburn EH. **J Biol Chem** 1990 Apr 15;265(11):5919–21 (30 ref.)

Functional analysis of Arg-308 mutants of Flp recombinase. Possible role of Arg-308 in coupling substrate binding to catalysis. Parsons RL, et al. **J Biol Chem** 1990 Mar 15; 265(8):4527–33

Synaptic intermediates promoted by the FLP recombinase. Amin AA, et al. **J Mol Biol** 1990 Jul 5;214(1):55–72

The avian retroviral integration protein cleaves the terminal sequences of linear viral DNA at the in vivo sites of integration. Katzman M, et al. **J Virol** 1989 Dec; 63(12):5319–27

Cell biology: telomeres sans frontières [news] Blackburn EH. **Nature** 1990 Jan 11;343(6254):122

Predictions of structural elements for the binding of Hin recombinase with the hix site of DNA. Plaxco KW, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9841–5

Site-specific DNA recombination system Min of plasmid p15B: a cluster of overlapping invertible DNA segments. Sandmeier H, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):1109–13

Human immunodeficiency virus integration protein expressed in Escherichia coli possesses selective DNA cleaving activity. Sherman PA, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5119–23

PHYSIOLOGY

Processive recombination by the phage Mu Gin system: implications for the mechanisms of DNA strand exchange, DNA site alignment, and enhancer action. Kanaar R, et al. **Cell** 1990 Jul 27;62(2):353–66

DNA PHOTOLYASE see under **LYASES**

DNA POLYMERASE ALPHA see **DNA POLYMERASE II**

DNA POLYMERASE BETA see **DNA POLYMERASE I**

DNA POLYMERASE I

Nuclear relaxation and Overhauser effect studies of enzyme-substrate interactions. Mildvan AS. **Arch Biol Med Exp (Santiago)** 1989 Jul;22(2):147–51 (35 ref.)

NMR studies of the active site of DNA polymerase I and of a 50-residue peptide fragment of the enzyme. Mullen GP, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):69–81

Resonance energy transfer measurements between substrate binding sites within the large (Klenow) fragment of Escherichia coli DNA polymerase I. Allen DJ, et al. **Biochemistry** 1989 Dec 12;28(25):9586–93

Interaction of Escherichia coli DNA polymerase I with azidoDNA and fluorescent DNA probes: identification of protein–DNA contacts. Catalano CE, et al. **Biochemistry** 1990 Apr 17;29(15):3612–21

Crystallographic studies of protein–nucleic acid interaction: catabolite gene activator protein and the large fragment of DNA polymerase I. Steitz TA, et al. **J Biomol Struct Dyn** 1983 Dec;1(4):1023–37

An attempt to unify the structure of polymerases. Delarue M, et al. **Protein Eng** 1990 May;3(6):461–7

ANALYSIS

The algorithm of estimation of the Km values for primers of various structure and length in the polymerization reaction catalyzed by Klenow fragment of DNA polymerase I from E. coli. Nevinsky GA, et al. **FEBS Lett** 1989 Nov 20;258(1):166–70

ANTAGONISTS & INHIBITORS

Active-site modification of mammalian DNA polymerase beta with pyridoxal 5'-phosphate: mechanism of inhibition and identification of lysine 71 in the deoxynucleoside triphosphate binding pocket. Basu A, et al. **Biochemistry** 1989 Jul 25;28(15):6305–9

Effect of DNA polymerase inhibitors on DNA repair in intact and permeable human fibroblasts: evidence that DNA polymerases delta and beta are involved in DNA repair synthesis induced by N-methyl-N'-nitro-N-nitrosoguanidine. Hammond RA, et al. **Biochemistry** 1990 Jan 9;29(1):286–91

Inactivation of DNA polymerase 1, alpha-amylase and protease by basic dyes and inhibition of microbial growth. Ogawa T, et al. **Bull Environ Contam Toxicol** 1990 Jul; 45(1):107–12

Does butylphenyl-deoxyguanosine triphosphate differentially inhibit DNA polymerase alpha and delta activities in permeabilized HeLa cells? Jackson DA. **Nucleic Acids Res** 1990 Feb 25;18(4):753–8

Inhibitors of repair of potentially lethal damage and DNA polymerases also influence the recovery of potentially neoplastic transforming damage in C3H10T-1/2 cells. Raaphorst GP, et al. **Radiat Res** 1990 Jul;123(1):49–54

BLOOD

Modulation by polyamines of DNA-dependent DNA polymerase activity from human serum. Shimamura S, et al. **Int J Biochem** 1990;22(5):545–9

GENETICS

Characterization of a putative promoter region of the human poly(ADP-ribose) polymerase gene: structural similarity to that of the DNA polymerase beta gene. Ogura T, et al. **Biochem Biophys Res Commun** 1990 Mar 16; 167(2):701–10

Site-directed mutagenesis of recombinant rat DNA polymerase beta: involvement of arginine-183 in primer recognition. Date T, et al. **Biochemistry** 1990 May 29; 29(21):5027–34

The effect of DNA polymerase inhibitors on the cytotoxicity of cisplatin in human ovarian carcinoma cells. Katz EJ, et al. **Cancer Commun** 1990;2(4):159–64

Mapping of the gene for DNA polymerase beta to mouse chromosome 8. McBride OW, et al. **Cytogenet Cell Genet** 1990;53(2–3):108–11

Mutations within the replicon of the IncN plasmid pCU1 that affect its Escherichia coli polA-independence but not its autonomous replication ability. Krishnan BR, et al. **Gene** 1990 Jul 2;91(1):1–7

Nucleotide sequence and characterization of temperature-sensitive pol1 mutants of Saccharomyces cerevisiae. Lucchini G, et al. **Gene** 1990 May 31; 90(1):99–104

Studies of the domain structure of mammalian DNA polymerase beta. Identification of a discrete template binding domain. Kumar A, et al. **J Biol Chem** 1990 Feb 5;265(4):2124–31

Identification of residues critical for the polymerase activity of the Klenow fragment of DNA polymerase I from Escherichia coli. Polesky AH, et al. **J Biol Chem** 1990 Aug 25;265(24):14579–91

Cell-type-specific expression of mouse DNA polymerase beta-gene is regulated by silencer elements. Yamaguchi M, et al. **J Cell Physiol** 1989 Nov;141(2):431–6

Transfected human beta-polymerase promoter contains a ras-responsive element. Kedar PS, et al. **Mol Cell Biol** 1990 Jul;10(7):3852–6

Protein binding elements in the human beta-polymerase promoter. Englander EW, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):919–28

HTLV-I trans-activator protein, tax, is a trans-repressor of the human beta-polymerase gene. Jeang KT, et al. **Science** 1990 Mar 2;247(4946):1082–4

[The effect of growth rate and culturing conditions on the stability of plasmid pCJ55 and on the level of expression of a large fragment of DNA-polymerase I, cloned in Escherichia coli] Kriukova EG, et al. **Mikrobiologiia** 1989 May-Jun;58(3):467–70 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

The private life of DNA polymerase I. Kornberg A. **Methods Enzymol** 1990;182:783–8

DNA polymerases alpha, delta, and epsilon: three distinct enzymes from HeLa cells. Syväoja J, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6664–8

METABOLISM

Sequence specificity of pausing by DNA polymerases. Weisman-Shomer P, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1149–56

Bleomycin-induced DNA repair synthesis in permeable human fibroblasts: mediation of long-patch and short-patch repair by distinct DNA polymerases. DiGiuseppe JA, et al. **Biochemistry** 1989 Nov 28;28(24):9515–20

Comparative efficiency of forming m4T.G versus m4T.A base pairs at a unique site by use of Escherichia coli DNA polymerase I (Klenow fragment) and Drosophila melanogaster polymerase alpha-primase complex. Dosanjh MK, et al. **Biochemistry** 1990 May 15;29(19):4698–703

Distamycin paradoxically stimulates the copying of oligo(dA).poly(dT) by DNA polymerases. Levy A, et al. **Biochemistry** 1989 Sep 5;28(18):7262–7

cis-syn thymine dimers are not absolute blocks to replication by DNA polymerase I of Escherichia coli in vitro. Taylor JS, et al. **Biochemistry** 1990 Feb 13;29(6):1624–32

Heat radiosensitization and the level of DNA polymerases alpha and beta of human colony-forming unit-granulocyte-macrophage and myeloid leukemias sensitive and resistant to chemotherapeutic agents. Mivechi NF, et al. **Cancer Res** 1990 Apr 1;50(7):2044–8

Escherichia coli DNA polymerase I: inherent exonuclease activities differentiate between monofunctional and bifunctional adducts of DNA and cis- or trans-diamminedichloroplatinum(II). An exonuclease investigation of the kinetics of the adduct formation. Bernges F, et al. **Eur J Biochem** 1990 Aug 17;191(3):743–53

Electrofocusing analysis of DNA polymerase beta in hypophysectomized rat testis. Nagasaka A, et al. **Horm Metab Res** 1990 Apr;22(4):229–31

The fidelity of DNA synthesis catalyzed by derivatives of Escherichia coli DNA polymerase I. Bebenek K, et al. **J Biol Chem** 1990 Aug 15;265(23):13878–87

Incorporation of 2-halogeno-2'-deoxyadenosine 5-triphosphates into DNA during replication by human polymerases alpha and beta. Hentosh P, et al. **J Biol Chem** 1990 Mar 5;265(7):4033–40

Substrate and DNA binding to a 50-residue peptide fragment of DNA polymerase I. Comparison with the enzyme. Mullen GP, et al. **J Biol Chem** 1989 Nov 25; 264(33):19637–47

Metal binding to DNA polymerase I, its large fragment, and two 3',5'-exonuclease mutants of the large fragment. Mullen GP, et al. **J Biol Chem** 1990 Aug 25; 265(24):14327–34

Template primer-dependent binding of 5'-fluorosulfonyl-benzoyldeoxyadenosine by Escherichia coli DNA polymerase I. Identification of arginine 682 as the binding site and its implication in catalysis. Pandey VN, et al. **J Biol Chem** 1990 Mar 5;265(7):3679–84

Herpes simplex virus type 1 and human DNA polymerase interactions with 2'-deoxyguanosine 5'-triphosphate analogues. Kinetics of incorporation into DNA and induction of inhibition. Reardon JE. **J Biol Chem** 1989 Nov 15;264(32):19039–44

Photoaffinity labeling of the Klenow fragment with 8-azido-dATP. Rush J, et al. **J Biol Chem** 1990 Mar 25; 265(9):4821–7

Fidelity of DNA polymerase I and the DNA polymerase I-DNA primase complex from Saccharomyces cerevisiae. Kunkel TA, et al. **Mol Cell Biol** 1989 Oct;9(10):4447–58

Activity profiles of enzymes that control the uracil incorporation into DNA during neuronal development. Focher F, et al. **Mutat Res** 1990 Mar;237(2):65–73

DNA polymerase I and a protein complex bind specifically to E. coli palindromic unit highly repetitive DNA: implications for bacterial chromosome organization. Gilson E, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3941–52

Effect of 3' flanking neighbors on kinetics of pairing of dCTP or dTTP opposite O6-methylguanine in a defined primed oligonucleotide when Escherichia coli DNA polymerase I is used. Singer B, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8271–4

Mismatch-specific thymine DNA glycosylase and DNA polymerase beta mediate the correction of G.T mispairs in nuclear extracts from human cells. Wiebauer K, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5842–5

[Covalent labelling of the Klenow fragment of DNA-polymerase I from E. coli] Degtiarev SKh, et al. **Bioorg Khim** 1989 Oct;15(10):1356–61 (Eng. Abstr.) **(Rus)**

[Topoisomerase I cleavage site in the regulatory zone of transcriptionally active minichromosomes of the SV40 virus located adjacent to a region, hypersensitive to DNAase I and segments recognizing topoisomerase II] Vasetskii ES, et al. **Dokl Akad Nauk SSSR** 1989; 306(6):1493–6 **(Rus)**

[Conformation limited nucleoside-5'-phosphates as termination substrates for DNA-polymerases] Chidzhavadze ZG, et al. **Mol Biol (Mosk)** 1989 Nov-Dec; 23(6):1732–42 (Eng. Abstr.) **(Rus)**

[Interaction of dNTP-binding sites of human DNA polymerase alpha and The Klenow fragment of Escherichia coli DNA polymerase I with nucleotides, pyrophosphate and their analogs] Nevinskii GA, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):104–16 (Eng. Abstr.) **(Rus)**

[The effect of bases non-complementary to the template on the efficacy of primer interaction with the Klenow fragment of DNA polymerase I from Escherichia coli] Nevinskii GA, et al. **Mol Biol (Mosk)** 1990 Jan-Feb; 24(1):96–103 (Eng. Abstr.) **(Rus)**

[Two types of fragmentation of total chromatin by DNAase I--an artifact or reality?] Karagebakian GG, et al. **Mol Gen Mikrobiol Virusol** 1989 Jul;(7):18–21 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Multiple replication factors augment DNA synthesis by the two eukaryotic DNA polymerases, alpha and delta. Tsurimoto T, et al. **EMBO J** 1989 Dec 1;8(12):3883–9

The involvement of topoisomerases and DNA polymerase I in the mechanism of induced thermal and radiation resistance in yeast. Boreham DR, et al. **Radiat Res** 1990 Aug;123(2):203–12

RADIATION EFFECTS

Irradiation of the template with high-intensity (pulse-laser) ultraviolet light results in DNA-polymerase termination

events at deoxyguanosine residues. Panyutin IG, et al. **FEBS Lett** 1989 Dec 4;258(2):274–6

DNA POLYMERASE II

ANALYSIS

Plasmodium falciparum: properties of an alpha-like DNA polymerase, the key enzyme in DNA synthesis. Abu-Elheiga L, et al. **Exp Parasitol** 1990 Jul;71(1):21–6

Expression of DNA polymerase alpha and Leu3a molecules in growing and saturated cultures of human leukemic cells: phenotype analysis of proliferative cells by flow cytometry. Shibata M, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1083–8

HIV-reverse transcriptase and human DNA polymerase alpha share amino acid sequence homologies to bacterial penicillin-binding proteins. Hafkemeyer P, et al. **Methods Find Exp Clin Pharmacol** 1990 Jan-Feb;12(1):43–6

Detection of DNA polymerase-alpha-positive cells in the glomeruli from patients with IgA nephropathy [letter] Eguchi K, et al. **Nephron** 1989;53(3):278

Aphidicolin-resistant DNA polymerase of bacteriophage phi 29 APHr71 mutant is hypersensitive to phosphonoacetic acid and butylphenyldeoxyguanosine 5'-triphosphate. Matsumoto K, et al. **Virology** 1990 Sep;178(1):337–9

[Immunocytochemical characterization of the DNA-polymerase alpha-positive colonic mucosal epithelial cells in patients with ulcerative colitis] Matsumoto T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug;86(8):1611–6 (Eng. Abstr.) **(Jpn)**

[A cell kinetic study of liver cells in various liver diseases by the detection of DNA polymerase alpha] Michitaka K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep; 86(9):2210–4 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

The inhibition of P338 lymphocytic leukemia DNA polymerase alpha activity by cis-diamminedichloroplatinum(II) and related derivatives. Oswald CB, et al. **Anticancer Res** 1989 Jul-Aug;9(4):915–22

Stabilization of the topoisomerase II-DNA cleavage complex by antineoplastic drugs: inhibition of enzyme-mediated DNA religation by 4'-(9-acridinylamino)methanesulfon-m-anisidide. Robinson MJ, et al. **Biochemistry** 1990 Mar 13; 29(10):2511–5

Carbonyldiphosphonate, a selective inhibitor of mammalian DNA polymerase delta. Talanian RV, et al. **Biochemistry** 1989 Oct 17;28(21):8270–4

Aphidicolin-sensitive DNA repair synthesis in human fibroblasts damaged with bleomycin is distinct from UV-induced repair. DiGiuseppe JA, et al. **Carcinogenesis** 1990 Jun;11(6):1021–6

The effect of medroxyprogesterone acetate on aromatase and DNA polymerase alpha activities in breast tumours. Purohit A, et al. **J Steroid Biochem** 1989;34(1–6):443–6

An inhibitor of DNA polymerases alpha and delta in calf thymus DNA. Goulian M, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4791–6

Does butylphenyl-deoxyguanosine triphosphate differentially inhibit DNA polymerase alpha and delta activities in permeabilized HeLa cells? Jackson DA. **Nucleic Acids Res** 1990 Feb 25;18(4):753–8

Inhibitors of repair of potentially lethal damage and DNA polymerases also influence the recovery of potentially neoplastic transforming damage in C3H10T-1/2 cells. Raaphorst GP, et al. **Radiat Res** 1990 Jul;123(1):49–54

Inhibition of DNA excision by DNA polymerase-alpha inhibitor in UV-damaged HeLa cells. Joe CO, et al. **Toxicol Lett** 1990 Aug;52(3):253–9

[Template-primer-dependent inactivation of DNA polymerase alpha from human placenta by 2',3'-epoxyadenosine-5'-triphosphate] Podust VN, et al. **Bioorg Khim** 1990 Feb;16(2):226–35 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Regulation of the synthesis of DNA polymerase-alpha in regenerating liver by calcium and 1,25-dihydroxyvitamin D3. Sikorska M, et al. **Biochem Cell Biol** 1989 Jul; 67(7):345–51

DNA polymerase alpha does not mediate G0-G1 increase in yield of X-ray-induced exchange aberrations in human peripheral blood lymphocytes. Bender MA, et al. **Mutat Res** 1990 Jun;244(2):111–4

GENETICS

The effect of DNA polymerase inhibitors on the cytotoxicity of cisplatin in human ovarian carcinoma cells. Katz EJ, et al. **Cancer Commun** 1990;2(4):159–64

Commitment and activation at pol II promoters: a tail of protein-protein interactions. Lewin B. **Cell** 1990 Jun 29; 61(7):1161–4 (18 ref.)

A third essential DNA polymerase in S. cerevisiae. Morrison A, et al. **Cell** 1990 Sep 21;62(6):1143–51

Cloning the polB gene of Escherichia coli and identification of its product. Chen H, et al. **J Biol Chem** 1989 Dec 5; 264(34):20591–5

Expression of adenovirus type 2 DNA polymerase in insect cells infected with a recombinant baculovirus. Watson CJ, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1167–73

The highly conserved amino acid sequence motif Tyr-Gly-Asp-Thr-Asp-Ser in alpha-like DNA polymerases is required by phage phi 29 DNA polymerase for protein-primed initiation and polymerization. Bernad A, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4610–4

Inhibition of T-cell proliferation by a MYB antisense oligomer is accompanied by selective down-regulation of DNA polymerase alpha expression. Venturelli D, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5963–7

On the DNA polymerase-a mutant: immunofluorescence assay of UV-induced thymidine dimers in Aphr-4-2 cells. Liu PK, et al. **Somat Cell Mol Genet** 1990 Jan;16(1):49–57

[Autonomic replication of plasmids containing DNA fragments from rat liver alpha-polymerase complex] Timchenko NA, et al. **Mol Biol (Mosk)** 1990 May-Jun; 24(3):814–23 (Eng. Abstr.) **(Rus)**

[Increased expression of genes coding for replication proteins during the period of DNA synthesis] Zhuchenko OP, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):824–31 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Detection of the growth fraction in colorectal tumours by a monoclonal antibody against DNA polymerase alpha. Yamaguchi A, et al. **Br J Cancer** 1990 Mar;61(3):390–3

ISOLATION & PURIFICATION

Structure of DNA polymerase alpha-primase complexes from mammalian cells analyzed by using monoclonal antibodies. Kozu T, et al. **J Biochem (Tokyo)** 1990 Apr; 107(4):535–8

Purification and characterization of DNA polymerase II from the yeast Saccharomyces cerevisiae. Identification of the catalytic core and a possible holoenzyme form of the enzyme. Hamatake RK, et al. **J Biol Chem** 1990 Mar 5; 265(7):4072–83

DNA polymerases alpha, delta, and epsilon: three distinct enzymes from HeLa cells. Syväoja J, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6664–8

METABOLISM

DNA polymerase alpha. An immunohistochemical marker for proliferating cells in normal and neoplastic human tissues. Tsutsumi Y, et al. **Am J Clin Pathol** 1990 May; 93(5):643–50

Hydrolysis of 3'-terminal mispairs in vitro by the 3'——5' exonuclease of DNA polymerase delta permits subsequent extension by DNA polymerase alpha. Perrino FW, et al. **Biochemistry** 1990 Jun 5;29(22):5226–31

Wheat embryo DNA polymerase A reverse transcribes natural and synthetic RNA templates. Biochemical characterization and comparison with animal DNA polymerase gamma and retroviral reverse transcriptase. Laquel P, et al. **Biochim Biophys Acta** 1990 Apr 6; 1048(2-3):139–48

Analysis by DNA polymerase alpha activity of human breast tumour proliferation and the effect of endocrine therapy. Coldham NG, et al. **Br J Cancer** 1990 Aug;62(2):263–6

Selective inhibition of DNA primase activity associated with DNA polymerase alpha from calf thymus. Bodner JB, et al. **Cancer Biochem Biophys** 1990 Jan;11(1):7–12

Heat radiosensitization and the level of DNA polymerases alpha and beta of human colony-forming unit-granulocyte-macrophage and myeloid leukemias sensitive and resistant to chemotherapeutic agents. Mivechi NF, et al. **Cancer Res** 1990 Apr 1;50(7):2044–8

Effects of beta-lactams on DNA replication. Hübscher U, et al. **Cell Biol Toxicol** 1986 Dec;2(4):541–8

Inhibitory effects of gold sodium thiomalate on DNA polymerase alpha. Takeuchi F, et al. **Clin Exp Rheumatol** 1989 Nov-Dec;7(6):595–601

Effect of polyamines on the activity of malarial alpha-like DNA polymerase. Bachrach U, et al. **Eur J Biochem** 1990 Aug 17;191(3):633–7

Age-related changes in DNA polymerase alpha expression. Busbee D, et al. **Exp Gerontol** 1989;24(5–6):395–413

The relationship between cell size, the activity of DNA polymerase alpha and proliferative activity in human diploid fibroblast-like cell cultures. Pendergrass W, et al. **Exp Gerontol** 1989;24(5–6):383–93

Growth hormone elevates DNA polymerase-alpha activity related to DNA synthesis in ovaries of hypophysectomized immature rat. Usuki S, et al. **Horm Metab Res** 1989 Aug; 21(8):455–6

Host proteins that bind to or mimic SV40 large T antigen: using antibodies to look at protein interactions and their significance. Mole SE, et al. **Immunol Suppl** 1989;2:80–5; discussion 86

Effect of nonviable preparations from human immunodeficiency virus type 1 on nuclear matrix-associated DNA polymerase alpha and DNA topoisomerase II activities. Müller WE, et al. **J Acquir Immune Defic Syndr** 1990;3(1):1–10

A novel stimulating protein of mammalian DNA polymerase alpha. Yoshida S, et al. **J Biochem (Tokyo)** 1989 Sep; 106(3):389–95

Alterations in the phosphorylation and activity of DNA polymerase alpha correlate with the change in replicative DNA synthesis as quiescent cells re-enter the cell cycle. Cripps-Wolfman J, et al. **J Biol Chem** 1989 Nov 25; 264(33):19478–86

Murine DNA polymerase alpha fills gaps to completion in a direct assay. Altered kinetics of de novo DNA synthesis at single nucleotide gaps. Davey SK, et al. **J Biol Chem** 1990 Mar 5;265(7):4098–104

Incorporation of 2-halogeno-2'-deoxyadenosine 5-triphosphates into DNA during replication by human polymerases alpha and beta. Hentosh P, et al. **J Biol Chem** 1990 Mar 5;265(7):4033–40

DNA primase. Processivity and the primase to polymerase alpha activity switch. Kuchta RD, et al. **J Biol Chem** 1990 Sep 25;265(27):16158–65

Base mispair extension kinetics. Comparison of DNA polymerase alpha and reverse transcriptase. Mendelman LV, et al. **J Biol Chem** 1990 Feb 5;265(4):2338–46

Changes in the nuclear distribution of DNA polymerase alpha and PCNA/cyclin during the progress of the cell cycle, in a cell-free extract of Xenopus eggs. Hutchison C, et al. **J Cell Sci** 1989 Aug;93 (Pt 4):605–13

Immunohistochemical demonstration of DNA polymerase alpha in human brain-tumor cells. Kunishio K, et al. **J Neurosurg** 1990 Feb;72(2):268–72

Purification of DNA polymerase II stimulatory factor I, a yeast single-stranded DNA-binding protein. Brown WC, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):677–81

Multiple functions of human single-stranded-DNA binding protein in simian virus 40 DNA replication: single-strand stabilization and stimulation of DNA polymerases alpha and delta. Kenny MK, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9757–61

Synthesis of DNA containing the simian virus 40 origin of replication by the combined action of DNA polymerases alpha and delta. Lee SH, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7361–5

[A study of the proliferative activity of DNA polymerase alpha immunoreactivity in breast cancer] Nishimura R, et al. **Gan No Rinsho** 1989 Oct;35(12):1417–20 (Eng. Abstr.) **(Jpn)**

[Interaction of dNTP-binding sites of human DNA polymerase alpha and The Klenow fragment of Escherichia coli DNA polymerase I with nucleotides, pyrophosphate and their analogs] Nevinskiĭ GA, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):104–16 (Eng. Abstr.) **(Rus)**

[Characteristics of DNA isolated from a complex form of DNA-polymerase alpha from the rat liver] Timchenko NA, et al. **Mol Biol (Mosk)** 1989 Jul-Aug;23(4):1171–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Fidelity of animal cell DNA polymerases alpha and delta and of a human DNA replication complex. Thomas DC, et al. **Basic Life Sci** 1990;52:289–97

Multiple replication factors augment DNA synthesis by the two eukaryotic DNA polymerases, alpha and delta. Tsurimoto T, et al. **EMBO J** 1989 Dec 1;8(12):3883–9

The roles of DNA polymerases alpha and delta in DNA replication. Talanian RV, et al. **Pharmacol Ther** 1990; 47(1):105–15 (143 ref.)

DNA POLYMERASE III see under **DNA POLYMERASES**

DNA POLYMERASES

A general method of site-specific mutagenesis using a modification of the Thermus aquaticus polymerase chain reaction. Nelson RM, et al. **Anal Biochem** 1989 Jul; 180(1):147–51

(Difluoromethylene)phosphates of guanine nucleosides as probes of DNA polymerases and G proteins. Arabshahi L, et al. **Biochemistry** 1990 Jul 24;29(29):6820–6

The N2-guanine adduct but not the C8-guanine or N6-adenine adducts formed by 4-nitroquinoline 1-oxide blocks the 3'-5' exonuclease action of T4 DNA polymerase. Panigrahi GB, et al. **Biochemistry** 1990 Feb 27;29(8):2122–6

A simple and inexpensive system to amplify DNA by PCR. Cao TM. **Biotechniques** 1989 Jun;7(6):566–7

Rapid amplification of lambda gt11 bacteriophage library inserts from plaques using the polymerase chain reaction (PCR). Dorfman DM, et al. **Biotechniques** 1989 Jun; 7(6):568, 570

Use of modified T7 DNA polymerase in low melting point agarose for DNA gap filling and molecular cloning. Majumdar D, et al. **Biotechniques** 1989 Feb;7(2):188–91

Use of a chemically modified T7 DNA polymerase for manual and automated sequencing of supercoiled DNA. Roe BA, et al. **Biotechniques** 1988 Jun;6(6):520

Use of a chemically modified T7 DNA polymerase for manual and automated sequencing of supercoiled DNA. Toneguzzo F, et al. **Biotechniques** 1988 May;6(5):460–9

Double-stranded DNA sequencing with T7 .polymerase. Wang Y. **Biotechniques** 1988 Oct;6(9):843–5

The use of the polymerase chain reaction in haematology. Macintyre EA. **Blood Rev** 1989 Sep;3(3):201–10 (49 ref.)

Automated DNA sequencing methods involving polymerase chain reaction. McBride LJ, et al. **Clin Chem** 1989 Nov; 35(11):2196–201

Revised nomenclature for eukaryotic DNA polymerases. Burgers PM, et al. **Eur J Biochem** 1990 Aug 17;191(3):617–8

Reverse transcription and direct amplification of cellular RNA transcripts by Taq polymerase. Tse WT, et al. **Gene** 1990 Apr 16;88(2):293–6

The abasic site as a challenge to DNA polymerase. A nuclear magnetic resonance study of G, C and T opposite a model

abasic site. Cuniasse P, et al. **J Mol Biol** 1990 May 20; 213(2):303–14

Thermus aquaticus DNA polymerase–catalysed chain reaction for the detection of human papillomaviruses. Chow VT, et al. **J Virol Methods** 1990 Jan;27(1):101–12

Cetus battles with Du Pont [news] Gershon D. **Nature** 1990 Jan 25;343(6256):301

PCR origins [letter] Price JS. **Nature** 1989 Dec 7; 342(6250):623

DNA sequencing with thermostable Tet DNA polymerase from Thermus thermophilus. Bechtereva TA, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10507

A new TaqI RFLP of the human fibronectin (FN1) gene. Gardella R, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10520

Improved double–stranded DNA sequencing using the linear polymerase chain reaction. Murray V. **Nucleic Acids Res** 1989 Nov 11;17(21):8889

Incomplete primer extension during in vitro DNA amplification catalyzed by Taq polymerase; exploitation for DNA sequencing. Olsen DB, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9613–20

A TaqI RFLP in the locus D9S29 on human chromosome 9. Weitnauer L, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10514

DNA dideoxy sequencing with T7 DNA polymerase: improved sequencing data by the addition of manganese chloride. Kristensen T, et al. **Trends Genet** 1990 Jan; 6(1):2–3

[Amplification of DNA sequences in Epstein–Barr virus and human immunodeficiency virus using DNA polymerase from Thermus thermophilus] Glukhov AI, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):781–7 (Eng. Abstr.) **(Rus)**

ANALYSIS

Re–examination by improved reverse transcriptase assay of DNA polymerase in platelets from myelodysplastic disease patients. Yoshida S, et al. **Biochem Int** 1989 Nov; 19(5):1133–41

Frequent contamination of Taq polymerase with DNA [letter] Böttger EC. **Clin Chem** 1990 Jun;36(6):1258–9

Comparison of exonucleolytic activities of herpes simplex virus type–1 DNA polymerase and DNase. Knopf CW, et al. **Eur J Biochem** 1990 Jul 31;191(2):263–73

The algorithm of estimation of the Km values for primers of various structure and length in the polymerization reaction catalyzed by Klenow fragment of DNA polymerase I from E. coli. Nevinsky GA, et al. **FEBS Lett** 1989 Nov 20;258(1):166–70

Demonstration of the human herpesvirus 6–induced DNA polymerase and DNase. Williams MV, et al. **Virology** 1989 Nov;173(1):223–30

ANTAGONISTS & INHIBITORS

Azidothymidine triphosphate is an inhibitor of both human immunodeficiency virus type 1 reverse transcriptase and DNA polymerase gamma. König H, et al. **Antimicrob Agents Chemother** 1989 Dec;33(12):2109–14

(+–)-(1 alpha,2 beta,3 alpha)–9–[2,3–bis(hydroxymethyl)–cyclobutyl] guanine [(+–)–BHCG or SQ 33,054]: a potent and selective inhibitor of herpesviruses. Field AK, et al. **Antiviral Res** 1990 Jan;13(1):41–52

Inhibition of RNA– and DNA–dependent duck hepatitis B virus DNA polymerase activity by nucleoside and pyrophosphate analogs. Löfgren B, et al. **Antiviral Res** 1989 Dec;12(5–6):301–10

Inhibition of herpes simplex virus DNA polymerase by diphosphates of acyclic phosphonylmethoxyalkyl nucleotide analogues. Merta A, et al. **Antiviral Res** 1990 May;13(5):209–18

Phosphonoacetic acid inhibits replication of human herpesvirus–6. Shiraki K, et al. **Antiviral Res** 1989 Dec; 12(5–6):311–8

Characterization of a novel inhibitor of human DNA polymerases: 3,4,5–tri–O–galloylquinic acid. Parker WB, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3759–65

Effect of DNA polymerase inhibitors on DNA repair in intact and permeable human fibroblasts: evidence that DNA polymerases delta and beta are involved in DNA repair synthesis induced by N–methyl–N'–nitro–N–nitrosoguanidine. Hammond RA, et al. **Biochemistry** 1990 Jan 9;29(1):286–91

Differential inhibitory effects of some catechin derivatives on the activities of human immunodeficiency virus reverse transcriptase and cellular deoxyribonucleic and ribonucleic acid polymerases. Nakane H, et al. **Biochemistry** 1990 Mar 20;29(11):2841–5

Carbonyldiphosphonate, a selective inhibitor of mammalian DNA polymerase delta. Talanian RV, et al. **Biochemistry** 1989 Oct 17;28(21):8270–4

Differential inhibition by an antitumoral drug 10–[gamma–diethylaminopropylamino]–6–methyl–5H–pyrido[3',4': 4,5]pyrrolo [2,3–G]isoquinoline (BD–40), a pyrido–pyrrolo–isoquinoline derivative, of in vitro DNA synthesis catalyzed by various DNA polymerases. Ono K, et al. **Cancer Lett** 1990 May 15;51(1):59–65

Differential inhibitory effects of various herb extracts on the activities of reverse transcriptase and various deoxyribonucleic acid (DNA) polymerases. Ono K, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1810–2

Differential inhibitory effects of various flavonoids on the activities of reverse transcriptase and cellular DNA and RNA polymerases. Ono K, et al. **Eur J Biochem** 1990 Jul 5;190(3):469–76

Potent inhibitory effects of the 5'–triphosphates of (E)–5–(2–bromovinyl)–2'–deoxyuridine and (E)–5–(2–bromovinyl)–1–beta–D–arabinofuranosyluracil on DNA polymerase gamma. Ono K, et al. **Eur J Biochem** 1990 Jul 5;190(3):463–7

The mechanisms of the inhibitory effects of liver extract on lymphocyte proliferation. III. The effects of arginase on DNA polymerase activities. Su HL, et al. **Immunopharmacology** 1989 Sep–Oct;18(2):135–42

Selective action of 3'–azido–3'–deoxythymidine 5'–triphosphate on viral reverse transcriptases and human DNA polymerases. Huang P, et al. **J Biol Chem** 1990 Jul 15;265(20):11914–8

Inhibition of hepatitis B virus DNA polymerase by 3'–fluorothymidine triphosphate and other modified nucleoside triphosphate analogs. Meisel H, et al. **J Med Virol** 1990 Feb;30(2):137–41

An inhibitor of DNA polymerases alpha and delta in calf thymus DNA. Goulian M, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4791–6

Stopping the DNA polymerase activity at a specific site with a dideoxyoligonucleotide: selective labelling of single stranded circular DNA. Mattanovich D, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8384

Differential inhibition of HIV–reverse transcriptase and various DNA and RNA polymerases by some catechin derivatives. Nakane H, et al. **Nucleic Acids Symp Ser** 1989; (21):115–6

BIOSYNTHESIS

Effect of enhanced synthesis of the epsilon subunit of DNA polymerase III on spontaneous and UV–induced mutagenesis of the Escherichia coli glyU gene. Ciesla Z, et al. **Mol Gen Genet** 1990 Apr;221(2):251–5

BLOOD

Improved assays for DNA–polymerizing enzymes by the use of enzymatically synthesized 5–[125I]iodo–2'–deoxyuridine triphosphate, illustrated by direct quantitation of anti–HIV reverse transcriptase antibody and by serum DNA polymerase analyses. Neumüller M, et al. **Biotechnol Appl Biochem** 1990 Feb;12(1):34–56

Molecular forms in human serum of enzymes synthesizing DNA precursors and DNA. Karlström AR, et al. **Mol Cell Biochem** 1990 Jan 18;92(1):23–35

[Clinical significance of HBV–associated DNA polymerase assay] Mitamura K. **Nippon Rinsho** 1990 Feb;48 Suppl:333–5 **(Jpn)**

DIAGNOSTIC USE

Of molecules and myocardium. PCR diagnosis of viral myocarditis in cardiac biopsies [editorial; comment] Ross RS, et al. **Circulation** 1990 Jul;82(1):294–5 Comment on: Circulation 1990 Jul;82(1):8–16.

The diagnostic applications of molecular biology. Kefford RF, et al. **Med J Aust** 1989 Oct 16;151(8):467–72, 475, 478 passim (49 ref.)

Apolipoprotein E variation in patients with hyperlipidaemia: DNA and protein phenotyping [see comments] McCormick SP, et al. **N Z Med J** 1989 Oct 11;102(877):534–6 Comment in: N Z Med J 1990 Feb 28;103(884)80–1.

GENETICS

DNA polymerase alpha defect in the N syndrome. Floy KM, et al. **Am J Med Genet** 1990 Mar;35(3):301–5

Progressive esophagitis from acyclovir–resistant herpes simplex. Clinical roles for DNA polymerase mutants and viral heterogeneity? Sacks SL, et al. **Ann Intern Med** 1989 Dec 1;111(11):893–9

Prenatal haloperidol alters the expression of DNA polymerases in brain regions of neonate rats. Castro R, et al. **Cell Mol Neurobiol** 1990 Jun;10(2):281–9

Prenatal diagnosis of alpha–1–antitrypsin deficiency using polymerase chain reaction (PCR). Comparison of conventional RFLP methods with PCR used in combination with allele specific oligonucleotides or RFLP analysis. Schwartz M, et al. **Clin Genet** 1989 Dec; 36(6):419–26

The cloned polC gene of Bacillus subtilis: characterization of the azp12 mutation and controlled in vitro synthesis of active DNA polymerase III. Barnes MH, et al. **Gene** 1989 Dec 21;85(1):177–86

Primary structure of bacteriophage M2 DNA polymerase: conserved segments within protein–priming DNA polymerases and DNA polymerase I of Escherichia coli. Matsumoto K, et al. **Gene** 1989 Dec 14;84(2):247–55

Genetic evidence for two protein domains and a potential new activity in bacteriophage T4 DNA polymerase. Reha–Krantz LJ. **Genetics** 1990 Feb;124(2):213–20

Detection of antibodies against the polymerase gene product in hepatitis B virus infection. Yuki N, et al. **Hepatology** 1990 Aug;12(2):193–8

Isolation and characterization of mutants with deletions in dnaQ, the gene for the editing subunit of DNA polymerase III in Salmonella typhimurium. Lancy ED, et al. **J Bacteriol** 1989 Oct;171(10):5572–80

Nucleotide sequences of dnaE, the gene for the polymerase subunit of DNA polymerase III in Salmonella typhimurium, and a variant that facilitates growth in the absence of another polymerase subunit. Lancy ED, et al. **J Bacteriol** 1989 Oct;171(10):5581–6

REV3, a Saccharomyces cerevisiae gene whose function is required for induced mutagenesis, is predicted to encode a nonessential DNA polymerase. Morrison A, et al. **J Bacteriol** 1989 Oct;171(10):5659–67

Cloning and sequencing of the nuclear gene MIP1 encoding the catalytic subunit of the yeast mitochondrial DNA polymerase. Foury F. **J Biol Chem** 1989 Dec 5; 264(34):20552–60

Systematic studies on parameters influencing the performance of the polymerase chain reaction. Linz U, et al. **J Clin Chem Clin Biochem** 1990 Jan;28(1):5–13

Polymerase chain reaction for the detection of Mycobacterium leprae. Hartskeerl RA, et al. **J Gen Microbiol** 1989 Sep;135 (Pt 9):2357–64

Trans–complementation of the C gene of human and the P gene of woodchuck hepadnaviruses. Okamoto H, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):959–63

Site–specific mutagenesis of a highly conserved region of the herpes simplex virus type 1 DNA polymerase gene. Dorsky DI, et al. **J Virol** 1990 Mar;64(3):1394–7

Structure–function studies of the herpes simplex virus type 1 DNA polymerase. Haffey ML, et al. **J Virol** 1990 Oct; 64(10):5008–18

Isolation and characterization of herpes simplex virus mutants containing engineered mutations at the DNA polymerase locus. Marcy AI, et al. **J Virol** 1990 May;64(5):2208–16

In vitro mutagenesis of the herpes simplex virus type 1 DNA polymerase gene results in altered drug sensitivity of the enzyme. Matthews JT, et al. **J Virol** 1989 Nov; 63(11):4913–8

Preferred translation of human hepatitis B virus polymerase from core protein– but not from precore protein–specific transcript. Ou JH, et al. **J Virol** 1990 Sep;64(9):4578–81

Locations of amino acid substitutions in bacteriophage T4 taL56 DNA polymerase predict an N–terminal exonuclease domain. Reha–Krantz LJ. **J Virol** 1989 Nov;63(11):4762–6

Translational regulation of herpes simplex virus DNA polymerase. Yager DR, et al. **J Virol** 1990 May; 64(5):2217–25

Expression of the dnaN and dnaQ genes of Escherichia coli is inducible by mitomycin C. Kaasch M, et al. **Mol Gen Genet** 1989 Oct;219(1–2):187–92

Mechanism for induction of adaptive mutations in Escherichia coli. Boe L. **Mol Microbiol** 1990 Apr; 4(4):597–601

Mutagenic DNA repair in Escherichia coli. XVIII. Involvement of DNA polymerase III alpha–subunit (DnaE protein) in mutagenesis after exposure to UV light. Bridges BA, et al. **Mutagenesis** 1990 Jan;5(1):35–8

Structural and functional analysis of temperature–sensitive mutants of the phage phi 29 DNA polymerase. Blasco MA, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4763–70

Programmed ribosomal frameshifting generates the Escherichia coli DNA polymerase III gamma subunit from within the tau subunit reading frame. Blinkowa AL, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1725–9

Cloning and sequencing of the polymerase gene (P) of Sendai virus (strain 6/94). Homann HE, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10102

Sequence similarity of bacteriophage SP02 DNA polymerase with E. coli DNA polymerase I. Iwabe N, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8866

Reverse transcription of mRNA by Thermus aquaticus DNA polymerase. Jones MD, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8387–8

Enzymatic activities of overexpressed herpes simplex virus DNA polymerase purified from recombinant baculovirus–infected insect cells. Marcy AI, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1207–15

Cloning and sequencing of the polymerase gene (P) of Sendai virus (strain Fushimi). Neubert WJ. **Nucleic Acids Res** 1989 Dec 11;17(23):10101

The highly conserved amino acid sequence motif Tyr–Gly–Asp–Thr–Asp–Ser in alpha–like DNA polymerases is required by phage phi 29 DNA polymerase for protein–primed initiation and polymerization. Bernad A, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4610–4

The gamma subunit of DNA polymerase III holoenzyme of Escherichia coli is produced by ribosomal frameshifting. Flower AM, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3713–7

Translational frameshifting generates the gamma subunit of DNA polymerase III holoenzyme. Tsuchihashi Z, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2516–20

Characterization of eukaryotic DNA polymerases: aphidicolin resistant mutants of Neurospora with altered DNA polymerase. Mishra NC, et al. **Prog Clin Biol Res** 1990;344:295–313

Structural organization of the conserved gene block of Herpesvirus saimiri coding for DNA polymerase, glycoprotein B, and major DNA binding protein. Albrecht JC, et al. **Virology** 1990 Feb;174(2):533–42

Encapsidation of truncated human hepatitis B virus genomes through trans–complementation of the core protein and polymerase. Chiang PW, et al. **Virology** 1990 Jun; 176(2):355–61

Physical mapping of two temperature-sensitive adenovirus mutants affected in the DNA polymerase and DNA binding protein. Roovers DJ, et al. **Virus Genes** 1990 Jun;4(1):53–61

[Polymerase chain reaction in clinical diagnosis] Perl A, et al. **Orv Hetil** 1990 Apr 1;131(13):671–5 (Eng. Abstr.) **(Hun)**

IMMUNOLOGY

A monoclonal antibody that neutralizes Epstein-Barr virus DNA polymerase activity. Tsai CH, et al. **Intervirology** 1990;31(2–4):215–22

Coprecipitation of 3'——5' exonuclease and DNA polymerase gamma with anti-DNA polymerase gamma antibody. Matsukage A, et al. **J Biochem (Tokyo)** 1990 Feb; 107(2):213–6

Molecular mimicry between a uveitopathogenic site of S-antigen and viral peptides. Induction of experimental autoimmune uveitis in Lewis rats. Singh VK, et al. **J Immunol** 1990 Feb 15;144(4):1282–7

ISOLATION & PURIFICATION

A distinct form of ribonuclease H from calf thymus stimulates its homologous DNA-polymerase-alpha-primase complex. Hagemeier A, et al. **Eur J Biochem** 1989 Nov 20; 185(3):621–8

Purification and characterization of a DNA polymerase from the archaebacterium Thermoplasma acidophilum. Hamal A, et al. **Eur J Biochem** 1990 Jul 5;190(3):517–21

Purification and properties of a thermophilic and thermostable DNA polymerase from the archaebacterium Sulfolobus solfataricus. Rella R, et al. **Ital J Biochem** 1990 Mar-Apr;39(2):83–99

Two forms of DNA polymerase delta from mouse cells. Purification and properties. Goulian M, et al. **J Biol Chem** 1990 Sep 25;265(27):16402–11

DNA polymerase gamma from Xenopus laevis. I. The identification of a high molecular weight catalytic subunit by a novel DNA polymerase photolabeling procedure. Insdorf NF, et al. **J Biol Chem** 1989 Dec 25;264(36):21491–7

Herpes simplex virus type 1 DNA polymerase. Mechanism-based affinity chromatography. Reardon JE. **J Biol Chem** 1990 May 5;265(13):7112–5

Z-DNA affinity chromatography. Fishel R, et al. **Methods Enzymol** 1990;184:328–40

Further biochemical characterization of wheat DNA primase: possible functional implication of copurification with DNA polymerase A. Laquel P, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4867–76

Mechanism of inhibition of adenovirus DNA replication by the acyclic nucleoside triphosphate analogue (S)-HPMPApp: influence of the adenovirus DNA binding protein. Mul YM, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):8917–29

Rapid purification of overexpressed T4 DNA polymerase. Rush J, et al. **Prep Biochem** 1989;19(4):329–40

DNA polymerases alpha, delta, and epsilon: three distinct enzymes from HeLa cells. Syväoja J, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6664–8

Mollicutes DNA polymerases: characterization of a single enzyme from Mycoplasma mycoides and Ureaplasma urealyticum and of three enzymes from Acholeplasma laidlawii. Maurel D, et al. **Res Microbiol** 1989 Mar-Apr; 140(3):191–205

METABOLISM

Human papillomavirus detection in paraffin-embedded cervical carcinomas and metastases of the carcinomas by the polymerase chain reaction. Claas EC, et al. **Am J Pathol** 1989 Oct;135(4):703–9

Three cytoplasmic DNA polymerases that utilize poly(rA).oligo(dT). Goulian M, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):627–34

Site-specific mutagenesis of PRD1 DNA polymerase: mutations in highly conserved regions of the family B DNA polymerase. Jung GH, et al. **Biochem Biophys Res Commun** 1990 Aug 16; 170(3):1294–300

Homologous pairing in vitro initiated by DNA synthesis. Kodadek T, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):302–9

The DNA polymerase from the archaebacterium Sulfolobus acidocaldarius: a thermophilic and thermoresistant enzyme which can perform automated polymerase chain reaction. Salhi S, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1341–7

Bleomycin-induced DNA repair synthesis in permeable human fibroblasts: mediation of long-patch and short-patch repair by distinct DNA polymerases. DiGiuseppe JA, et al. **Biochemistry** 1989 Nov 28;28(24):9515–20

Template-primer activity of 5-(hydroxymethyl)uracil-containing DNA for prokaryotic and eukaryotic DNA and RNA polymerases. Herrala AM, et al. **Biochemistry** 1989 Oct 17;28(21):8274–7

Structure-function analysis of mononucleotides and short oligonucleotides in the priming of enzymatic DNA synthesis. Nevinsky GA, et al. **Biochemistry** 1990 Feb 6; 29(5):1200–7

Hydrolysis of 3'-terminal mispairs in vitro by the 3'——5' exonuclease of DNA polymerase delta permits subsequent extension by DNA polymerase alpha. Perrino FW, et al. **Biochemistry** 1990 Jun 5;29(22):5226–31

Wheat embryo DNA polymerase A reverse transcribes natural and synthetic RNA templates. Biochemical characterization and comparison with animal DNA polymerase gamma and retroviral reverse transcriptase. Laquel P, et al. **Biochim Biophys Acta** 1990 Apr 6; 1048(2–3):139–48

DNA polymerase delta: a second eukaryotic DNA replicase. Downey KM, et al. **Bioessays** 1990 May;12(5):231–6 (51 ref.)

Southern blot analysis of polymerase chain reaction products on acrylamide gels. Nguyen TD. **Biotechniques** 1989 Mar; 7(3):238–40

Substrate specificity of the exonuclease associated with calf DNA polymerase. Sabatino RD, et al. **Cancer Res** 1990 Sep 1;50(17):5340–4

DNA polymerase action on bulky deoxyguanosine and deoxyadenosine adducts. Reardon DB, et al. **Carcinogenesis** 1990 Jan;11(1):165–8

A conserved 3'——5' exonuclease active site in prokaryotic and eukaryotic DNA polymerases. Bernad A, et al. **Cell** 1989 Oct 6;59(1):219–28

Biochemical characterization of the DNA polymerase activity present in isolated nuclei from mussel tissues: a possible system for the evaluation of the rate of DNA repair. Accomando R, et al. **Comp Biochem Physiol [B]** 1989;93(4):747–51

The efficiency of interaction of deoxyribonucleoside-5'-mono-, di- and triphosphates with the active centre of E. coli DNA polymerase I Klenow fragment. Doronin SV, et al. **FEBS Lett** 1989 Dec 18; 259(1):83–5

Effect of divalent and monovalent cations on calf thymus PCNA-independent DNA polymerase delta and its 3'——5' exonuclease. Focher F, et al. **FEBS Lett** 1990 Jan 1;259(2):349–52

Herpes simplex-1 DNA polymerase. Identification of an intrinsic 5'——3' exonuclease with ribonuclease H activity. Crute JJ, et al. **J Biol Chem** 1989 Nov 15;264(32):19266–70

Functional interaction between the herpes simplex-1 DNA polymerase and UL42 protein. Hernandez TR, et al. **J Biol Chem** 1990 Jul 5;265(19):11227–32

Termination of DNA synthesis by 9-beta-D-arabinofuranosyl-2-fluoroadenine. A mechanism for cytotoxicity. Huang P, et al. **J Biol Chem** 1990 Sep 25;265(27):16617–25

DNA polymerase gamma from Xenopus laevis. II. A 3'——5' exonuclease is tightly associated with the DNA polymerase activity. Insdorf NF, et al. **J Biol Chem** 1989 Dec 25; 264(36):21498–503

Total reconstitution of DNA polymerase III holoenzyme reveals dual accessory protein clamps. O'Donnell M, et al. **J Biol Chem** 1990 Jan 15;265(2):1179–87

Herpes simplex virus type 1 and human DNA polymerase interactions with 2'-deoxyguanosine 5'-triphosphate analogues. Kinetics of incorporation into DNA and induction of inhibition. Reardon JE. **J Biol Chem** 1989 Nov 15;264(32):19039–44

Photoaffinity labeling of the Klenow fragment with 8-azido-dATP. Rush J, et al. **J Biol Chem** 1990 Mar 25; 265(9):4821–7

Processive replication is contingent on the exonuclease subunit of DNA polymerase III holoenzyme. Studwell PS, et al. **J Biol Chem** 1990 Jan 15;265(2):1171–8

DNA sequence analysis with a modified bacteriophage T7 DNA polymerase. Effect of pyrophosphorolysis and metal ions. Tabor S, et al. **J Biol Chem** 1990 May 15; 265(14):8322–8

ATP interactions of the tau and gamma subunits of DNA polymerase III holoenzyme of Escherichia coli. Tsuchihashi Z, et al. **J Biol Chem** 1989 Oct 25; 264(30):17790–5

DNA polymerase delta/PCNA: actions and interactions. Fairman MP. **J Cell Sci** 1990 Jan;95 (Pt 1):1–4 (34 ref.)

Direct method for detecting small quantities of hepatitis B virus DNA in serum and plasma using the polymerase chain reaction. Zeldis JB, et al. **J Clin Invest** 1989 Nov; 84(5):1503–8

DNA polymerase from Sulfolobus acidocaldarius. Replication at high temperature of long stretches of single-stranded DNA. Salhi S, et al. **J Mol Biol** 1989 Oct 20;209(4):635–44

Autogenous translational operator recognized by bacteriophage T4 DNA polymerase. Tuerk C, et al. **J Mol Biol** 1990 Jun 20;213(4):749–61

The essential 65-kilodalton DNA-binding protein of herpes simplex virus stimulates the virus-encoded DNA polymerase. Gallo ML, et al. **J Virol** 1989 Dec; 63(12):5023–9

Specificities involved in the initiation of retroviral plus-strand DNA. Luo GX, et al. **J Virol** 1990 Feb; 64(2):592–7

Pulmonary involvement in infectious mononucleosis: histopathologic features and detection of Epstein-Barr virus-related DNA sequences. Myers JL, et al. **Mod Pathol** 1989 Sep;2(5):444–8

Sequencing of Saccharomyces telomeres cloned using T4 DNA polymerase reveals two domains. Wang SS, et al. **Mol Cell Biol** 1990 Aug;10(8):4415–9

Holoenzyme DNA polymerase III fixes mutations. Bryan SK, et al. **Mutat Res** 1990 Apr;243(4):313–8

Removal of 2',3'-dideoxynucleotide residues from injected DNA in Xenopus laevis oocytes. Legerski RJ, et al. **Mutat Res** 1990 Jul;236(1):1–7

Sequential initiation of lagging and leading strand synthesis by two different polymerase complexes at the SV40 DNA replication origin. Tsurimoto T, et al. **Nature** 1990 Aug 9;346(6284):534–9

Optimal conditions for directly sequencing double-stranded PCR products with sequenase. Casanova JL, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4028

High fidelity DNA synthesis by the Thermus aquaticus DNA polymerase. Eckert KA, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3739–44

Aphidicolin resistance in herpes simplex virus type I reveals features of the DNA polymerase dNTP binding site. Hall JD, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9231–44

Ordered deletions for DNA sequencing and in vitro mutagenesis by polymerase extension and exonuclease III gapping of circular templates. Henikoff S. **Nucleic Acids Res** 1990 May 25;18(10):2961–6

Cloning of PCR products after defined cohesive termini are created with T4 DNA polymerase. Stoker AW. **Nucleic Acids Res** 1990 Jul 25;18(14):4290

Functional domains in the bacteriophage phi 29 terminal protein for interaction with the phi 29 DNA polymerase and with DNA. Zaballos A, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10353–66

Frameshift errors initiated by nucleotide misincorporation. Bebenek K, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):4946–50

Multiple functions of human single-stranded-DNA binding protein in simian virus 40 DNA replication: single-strand stabilization and stimulation of DNA polymerases alpha and delta. Kenny MK, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9757–61

Fidelity of DNA polymerases in DNA amplification. Keohavong P, et al. **Proc Natl Acad Sci U S A** 1989 Dec; 86(23):9253–7

Synthesis of DNA containing the simian virus 40 origin of replication by the combined action of DNA polymerases alpha and delta. Lee SH, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7361–5

Mechanism of elongation of primed DNA by DNA polymerase delta, proliferating cell nuclear antigen, and activator 1. Lee SH, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5672–6

Functions of replication factor C and proliferating-cell nuclear antigen: functional similarity of DNA polymerase accessory proteins from human cells and bacteriophage T4. Tsurimoto T, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):1023–7

Requirement for two DNA polymerases in the replication of simian virus 40 DNA in vitro. Weinberg DH, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9742–6

Effect of accessory proteins on the fidelity of DNA synthesis by eukaryotic replicative polymerases. Roberts JD, et al. **Prog Clin Biol Res** 1990;340A:91–100

Systematic evolution of ligands by exponential enrichment: RNA ligands to bacteriophage T4 DNA polymerase. Tuerk C, et al. **Science** 1990 Aug 3;249(4968):505–10

Neutralization of purified herpes simplex virus DNA polymerase by two antipeptide sera. Matthews JT, et al. **Virus Genes** 1990 Apr;3(4):343–54

[The polymerase chain reaction] Arnoldus EP, et al. **Ned Tijdschr Geneeskd** 1989 Sep 16;133(37):1825–9 **(Dut)**

[Covalent labelling of the Klenow fragment of DNA-polymerase I from E. coli] Degtiarev SKh, et al. **Bioorg Khim** 1989 Oct;15(10):1356–61 (Eng. Abstr.) **(Rus)**

[Inclusion of biotinylated analogs of dUTP and dCTP in DNA by DNA-polymerases. Cloning DNA fragments, containing biotinylated deoxyribouridine in E. coli] Oshevskii SI, et al. **Bioorg Khim** 1989 Aug;15(8):1091–9 (Eng. Abstr.) **(Rus)**

[Lipid peroxidation and the polymerase activities of liver chromatin fractions in rats during aging] Levitskii EL, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):693–5 (Eng. Abstr.) **(Rus)**

[Interaction of dNTP-binding sites of human DNA polymerase alpha and The Klenow fragment of Escherichia coli DNA polymerase I with nucleotides, pyrophosphate and their analogs] Nevinskii GA, et al. **Mol Biol (Mosk)** 1990 Jan-Feb;24(1):104–16 (Eng. Abstr.) **(Rus)**

[The effect of bases non-complementary to the template on the efficacy of primer interaction with the Klenow fragment of DNA polymerase I from Escherichia coli] Nevinskii GA, et al. **Mol Biol (Mosk)** 1990 Jan-Feb; 24(1):96–103 (Eng. Abstr.) **(Rus)**

[Increase in the activity of nuclear DNA polymerases in the tissues of mice subjected to long-term gamma irradiation] Kozhanovskaia IaK, et al. **Radiobiologiia** 1990 May-Jun; 30(3):300–4 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

A protocol for using T7 DNA polymerase in oligonucleotide site-directed mutagenesis. Zhou C, et al. **Biotechniques** 1990 May;8(5):503

PHYSIOLOGY

Fidelity of animal cell DNA polymerases alpha and delta and of a human DNA replication complex. Thomas DC,

et al. **Basic Life Sci** 1990;52:289–97
Polymerases and UV mutagenesis in Escherichia coli. Bridges BA, et al. **Genome** 1989;31(2):572–7 (37 ref.)
Animal cell DNA polymerases in DNA repair. Perrino FW, et al. **Mutat Res** 1990 Sep–Nov;236(2–3):289–300 (81 ref.)
The roles of DNA polymerases alpha and delta in DNA replication. Talanian RV, et al. **Pharmacol Ther** 1990; 47(1):105–15 (143 ref.)

DNA PROBES

Non-radioactive hybridization probes prepared using M13 phage vector and the universal sequencing primer. Ikeda S, et al. **Acta Med Okayama** 1989 Aug;43(4):197–202
Gene probes for the detection of Listeria spp. Leimeister-Wächter M, et al. **Acta Microbiol Hung** 1989; 36(2–3):211–3
The use of the Listeria monocytogenes DTH gene for the detection of pathogenic biovars in food. Notermans S, et al. **Acta Microbiol Hung** 1989;36(2–3):215–8
Typing of Listeria monocytogenes for epidemiological studies using DNA probes. Saunders NA, et al. **Acta Microbiol Hung** 1989;36(2–3):205–9
Detection of human papillomavirus type 11 DNA in a conjunctival squamous cell papilloma by in situ hybridization with biotinylated probes. Mäntyjärvi M, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):425–9
Use of DNA probes for the diagnosis of infections caused by Mycoplasma pneumoniae and legionellae—a review. Edelstein PH. **Adv Exp Med Biol** 1990;263:57–69 (10 ref.)
Time-resolved fluorometry: principles and application to clinical microbiology and DNA probe technology. Hurskainen P, et al. **Adv Exp Med Biol** 1990;263:123–30 (32 ref.)
The use of DNA probes to detect and identify microorganisms. Kohne DE. **Adv Exp Med Biol** 1990; 263:11–35 (6 ref.)
Cloning the full-length cDNA for the porcine urate oxidase by the MOPAC generated probe. Lee CC, et al. **Adv Exp Med Biol** 1989;253A:499–505
The use of DNA probes for rapidly identifying cultures of Mycobacterium. Woodley CL, et al. **Adv Exp Med Biol** 1990;263:51–6
Use of Gen-Probe and Bactec for rapid isolation and identification of mycobacteria. Correlation of probe results with growth index. Body BA, et al. **Am J Clin Pathol** 1990 Mar;93(3):415–20
Detection and typing of human papillomavirus in histologic specimens by in situ hybridization with biotinylated DNA probes. Garuti G, et al. **Am J Clin Pathol** 1989 Nov; 92(5):604–12
Detection of molecular rearrangements in Prader-Willi syndrome patients by using genomic probes recognizing four loci within the PWCR. Gregory CA, et al. **Am J Med Genet** 1990 Apr;35(4):536–45
Characterization of an unusual and complex chromosome 21 rearrangement using somatic cell genetics and cloned DNA probes. Van Keuren ML, et al. **Am J Med Genet** 1989 Jul;33(3):369–75
Differential diagnosis between complete mole and hydropic abortus by deoxyribonucleic acid fingerprints. Nobunaga T, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):634–8
Rapid determination of fetal sex [letter] Stephens JD. **Am J Obstet Gynecol** 1990 Aug;163(2):683–4
Screening of seven putative 45,X subjects with deoxyribonucleic acid probes to detect low-level mosaicism for Y cell lines. Tho SP, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):59–60
Detection of Epstein-Barr virus by in situ hybridization. Progress toward development of a nonisotopic diagnostic test. Bashir R, et al. **Am J Pathol** 1989 Dec;135(6):1035–44
Detection of Plasmodium falciparum infection in human patients: a comparison of the DNA probe method to microscopic diagnosis. Barker RH Jr, et al. **Am J Trop Med Hyg** 1989 Sep;41(3):266–72
Detection of Brucella abortus in mammalian tissue, using biotinylated, whole genomic DNA as a molecular probe. Hopper BR, et al. **Am J Vet Res** 1989 Dec;50(12):2064–8
Use of multiallelic human DNA probes to detect polymorphisms in the porcine genome. Troyer DL, et al. **Am J Vet Res** 1990 Mar;51(3):479–81
Nonradioactive nucleic acid detection by enhanced chemiluminescence using probes directly labeled with horseradish peroxidase. Pollard-Knight D, et al. **Anal Biochem** 1990 Feb 15;185(1):84–9
Detection of human immunodeficiency virus in infected CEM cells using fluorescent DNA probes and a laser-based computerized image cytofluorometry system. Hart L, et al. **Anal Quant Cytol Histol** 1990 Apr;12(2):127–34
DNA probes for the identification of Coxiella burnetti strains. Frazier ME, et al. **Ann N Y Acad Sci** 1990;590:445–58
Use of DNA probes for differentiation of spotted fever group and other rickettsiae. Regnery R. **Ann N Y Acad Sci** 1990; 590:422–9
Leishmaniasis and malaria: DNA probes for diagnosis and epidemiologic analysis. Wirth DF, et al. **Ann N Y Acad Sci** 1989;569:183–92 (47 ref.)
Detection of coliform bacteria in water by polymerase chain reaction and gene probes. Bej AK, et al. **Appl Environ Microbiol** 1990 Feb;56(2):307–14
Cloning of a gene encoding a major secreted polypeptide of Listeria monocytogenes and its potential use as a species-specific probe. Flamm RK, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2251–6
A synthetic oligonucleotide probe and a cloned polynucleotide probe based on the yopA gene for detection and enumeration of virulent Yersinia enterocolitica. Kapperud G, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):17–23
Direct detection of Salmonella spp. in estuaries by using a DNA probe. Knight IT, et al. **Appl Environ Microbiol** 1990 Apr;56(4):1059–66
Evaluation of DNA probes for detection of Shiga-like-toxin-producing Escherichia coli in food and calf fecal samples. Samadpour M, et al. **Appl Environ Microbiol** 1990 May;56(5):1212–5
Development of enterobacterium-specific oligonucleotide probes based on the surface-exposed regions of outer membrane proteins. Spierings G, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3250–2
Construction and applications of DNA probes for detection of polychlorinated biphenyl-degrading genotypes in toxic organic-contaminated soil environments. Walia S, et al. **Appl Environ Microbiol** 1990 Jan;56(1):254–9
Molecular probes for the detection of Kluyveromyces marxianus chromosomal DNA in electrophoretic karyotypes of intergeneric protoplast fusion products. Witte V, et al. **Arch Microbiol** 1989;152(5):441–6
Rhinovirus detection using probes from the 5' and 3' end of the genome. Forsyth M, et al. **Arch Virol** 1989; 107(1–2):55–63
Random cDNA probes to infectious bursal disease virus. Davis VS, et al. **Avian Dis** 1990 Apr–Jun;34(2):329–35
The use of biotin-labeled cDNA probes for the detection of infectious bursal disease viruses. Jackwood DJ, et al. **Avian Dis** 1990 Jan–Mar;34(1):129–36
Interaction of Escherichia coli DNA polymerase I with azidoDNA and fluorescent DNA probes: identification of protein-DNA contacts. Catalano CE, et al. **Biochemistry** 1990 Apr 17;29(15):3612–21
In vivo footprinting: studies of protein—DNA interactions in gene regulation. Nielsen PE. **Bioessays** 1989 Nov; 11(5):152–5 (48 ref.)
Use of molecular probes to study regulation of aromatase cytochrome P-450. Mendelson CR, et al. **Biol Reprod** 1990 Jan;42(1):1–10
DNA probe technology to soar in the 1990s [news] **Biomed Instrum Technol** 1990 Jul–Aug;24(4):247
Combined use of oligo(dt) and 28S cDNA probes for the quantitation of total mRNA in polyribosomes: application to the castration-induced atrophy of the rat prostate. Boissonneault G, et al. **Biosci Rep** 1990 Apr;10(2):179–88
Use of photobiotinylated deoxyoligonucleotides to detect cloned DNA. Denman RB, et al. **Biotechniques** 1989 Feb; 7(2):138–41
A rapid method for confirming cell line identity: DNA "fingerprinting" with a minisatellite probe from M13 bacteriophage. Devor EJ, et al. **Biotechniques** 1988 Mar; 6(3):200, 202
Detection of DNA-protein binding in western blots by phosphorus-labeled and biotinylated DNA probes. Herlt M, et al. **Biotechniques** 1988 Apr;6(4):324–31
A rapid non-radioactive procedure for plaque hybridization using biotinylated probes prepared by random primed labeling [published erratum appears in Biotechniques 1988 Mar;6(3):210] Kincaid RL, et al. **Biotechniques** 1988 Jan; 6(1):42–9
Preparation of digoxigenin-labeled probes by the polymerase chain reaction. Lanzillo JJ. **Biotechniques** 1990 Jun;8(6):620, 622
RFLP and deletion analysis for X-linked chronic granulomatous disease using the cDNA probe: potential for improved prenatal diagnosis and carrier determination. Pelham A, et al. **Blood** 1990 Aug 15;76(4):820–4
The use of the polymerase chain reaction in haematology. Macintyre EA. **Blood Rev** 1989 Sep;3(3):201–10 (49 ref.)
The use of locus-specific minisatellite probes to check engraftment following allogeneic bone marrow transplantation for severe combined immunodeficiency disease. Katz F, et al. **Bone Marrow Transplant** 1990 Mar; 5(3):199–204
A highly informative X-chromosome probe, M27 beta, can be used for the determination of tumour clonality [letter] Abrahamson G, et al. **Br J Haematol** 1990 Mar;74(3):371–2
The use of DNA probes to monitor minimal residual disease in childhood acute lymphoblastic leukaemia. Katz F, et al. **Br J Haematol** 1989 Oct;73(2):173–80
Molecular genetics of alcoholism [letter; comment] [see comments] Adityanjee. **Br J Psychiatry** 1989 Oct;155:564–5 Comment on: Br J Psychiatry 1989 May;154:591–5. Comment in: Br J Psychiatry 1990 Feb;156:284.
Hybridization studies with a DNA probe derived from the virulence region of the 60 Mdal plasmid of Salmonella typhimurium. Poppe C, et al. **Can J Vet Res** 1989 Oct; 53(4):378–84
Human papillomavirus type 16/18 in uterine cervical adenocarcinoma in situ and adenocarcinoma. A study by in situ hybridization with biotinylated DNA probes. Nielsen AL. **Cancer** 1990 Jun 1;65(11):2588–93
Targeted cytogenetic analysis of gastric tumors by in situ hybridization with a set of chromosome-specific DNA probes. van Dekken H, et al. **Cancer** 1990 Aug 1;66(3):491–7
Highly sensitive biotin-labelled hybridization probe. Arakawa H, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul; 37(7):1831–3
Gene probe coated piezoelectric biosensors for biochemical analysis. Wu TZ, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1990 May;23(2):147–54
Molecular probe protocol for determining carrier status in Duchenne and Becker muscular dystrophies. Prior TW, et al. **Clin Chem** 1990 Mar;36(3):441–5
DNA "fingerprinting" with nonradioactive gene probes. Tilzer LL, et al. **Clin Chem** 1989 Oct;35(10):2147
A dicentric variant of chromosome 6: characterization by use of in situ hybridisation with the biotinylated probe p308. Callen DF, et al. **Clin Genet** 1990 Feb;37(2):81–3
Use of the RB1 cDNA as a diagnostic probe in retinoblastoma families. Goddard AD, et al. **Clin Genet** 1990 Feb;37(2):117–26
Inherited quantitative DNA variation in the LPA ("apolipoprotein (a)") gene. Kondo I, et al. **Clin Genet** 1990 Feb;37(2):132–40
Prenatal diagnosis in Pelizaeus-Merzbacher disease using RFLP analysis. Mäenpää J, et al. **Clin Genet** 1990 Feb; 37(2):141–7
Detection of parvovirus in a patient with "reactive arthritis" by in situ hybridization. Kandolf R, et al. **Clin Rheumatol** 1989 Sep;8(3):398–401
Use of the Gen-Probe PACE system for the detection of Neisseria gonorrhoeae in urogenital samples. Granato PA, et al. **Diagn Microbiol Infect Dis** 1990 May–Jun; 13(3):217–21
Comparison of the synthetic oligonucleotide gene probe and infant mouse bioassay for detection of enterotoxigenic Escherichia coli. Cryan B. **Eur J Clin Microbiol Infect Dis** 1990 Mar;9(3):229–32
Identification of atypical strains of Streptococcus pneumoniae by a specific DNA probe. Fenoll A, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jun;9(6):396–401
Nonisotopic labelling of a variable number of tandem repeat probe by nick translation with biotinylated nucleotides. Rose M, et al. **Exp Clin Immmunogenet** 1990;7(3):200–2
DNA probe diagnosis of parasitic infections. Barker RH Jr. **Exp Parasitol** 1990 May;70(4):494–9 (39 ref.)
Osmium tetroxide, N,N,N',N'-tetramethylethylendiamine. A new probe of DNA structure in the cell. Boublíková P, et al. **FEBS Lett** 1990 Apr 24;263(2):281–4
Bacterial colony screening with a Streptomyces DNA probe. Kuczek K, et al. **FEMS Microbiol Lett** 1989 Oct 15; 52(3):257–60
Recommendations of the Society for Forensic Haemogenetics concerning DNA polymorphisms [editorial] **Forensic Sci Int** 1989 Oct–Nov;43(2):109–11
M13 Bioprints: non-isotopic detection of individual-specific human DNA fingerprints with biotinylated M13 bacteriophage. Medeiros AC, et al. **Forensic Sci Int** 1989 Dec;43(3):275–80
Construction of a lacZ-kanamycin-resistance cassette, useful for site-directed mutagenesis and as a promoter probe. Kokotek W, et al. **Gene** 1989 Dec 14;84(2):467–71
Yeast artificial chromosomes containing human Xq24–Xq28 DNA: library construction and representation of probe sequences. Abidi FE, et al. **Genomics** 1990 Jul;7(3):363–76
Localization of 27 DNA markers to the region of human chromosome 22q11-pter deleted in patients with the DiGeorge syndrome and duplicated in the der22 syndrome. Carey AH, et al. **Genomics** 1990 Jul;7(3):299–306
Physical mapping of probes within 14q32, a subtelomeric region showing a high recombination frequency. Hofker MH, et al. **Genomics** 1990 Jan;6(1):33–8
Isolation of sequences from Xp22.3 and deletion mapping using sex chromosome rearrangements from human X-Y interchange sex reversals. Petit C, et al. **Genomics** 1990 Apr;6(4):651–8
Early detection of hereditary medullary thyroid cancer with polymorphic DNA probes. Groupe d'Etude des Tumeurs a Calcitonine. Narod SA, et al. **Henry Ford Hosp Med J** 1989;37(3–4):106–8
Study of stringency conditions for human papillomavirus DNA detection on cell lines, frozen and paraffin-embedded tissue sections by in situ hybridization with biotinylated probes. Guerin-Reverchon I, et al. **Histochemistry** 1990; 93(6):637–43
In situ detection of cytomegalovirus DNA in biopsies of AIDS patients using a hybrido-immunocytochemical assay. Musiani M, et al. **Histochemistry** 1990;94(1):21–5
Detection of DNA sequences in Plasmodium berghei by means of in situ hybridization. Obst M, et al. **Histochemistry** 1990;94(1):101–7
Genetic screening of endocrine tumour syndromes with DNA probes: the example of medullary thyroid carcinoma. Sobol H, et al. **Horm Res** 1989;32(1–3):34–40 (32 ref.)
In situ hybridization studies using a molecular probe that maps to Xq27-Zq28. Duncan AM, et al. **Hum Genet** 1990 Apr;84(5):446–8
Chromosomal in situ hybridization of a Hodgkin's disease-derived cell line (L540) using DNA probes for TCRA, TCRB, MET, and rRNA. Fonatsch C, et al. **Hum Genet** 1990 Apr;84(5):427–34
Probe, VK5B, is located in the same interval as the autosomal dominant adult polycystic kidney disease locus, PKD1. Hyland VJ, et al. **Hum Genet** 1990 Feb;84(3):286–8
Probe walking: development of novel probes for DNA fingerprinting. Washio K, et al. **Hum Genet** 1989 Oct; 83(3):223–6

Ethnic-specific allelic variation within the D1Z2 locus. Tynan KM, et al. **Hum Hered** 1990;40(1):1-14

Detection of five different human papillomavirus types in cervical lesions by in situ hybridization. A study of 110 cases using sulfonated probes. Jacquemier J, et al. **Hum Pathol** 1990 Sep;21(9):911-7

A DNA probe specific for L. monocytogenes in the genus Listeria. Chenevert J, et al. **Int J Food Microbiol** 1989 Jul; 8(4):317-9

Identification and enumeration of virulent Listeria strains. Datta AR, et al. **Int J Food Microbiol** 1989 Jun;8(3):259-64

Evaluation of a non-radioactive DNA probe for confirmatory identification of Neisseria gonorrhoeae. Näher H, et al. **Int J Med Microbiol** 1989 Dec;272(2):181-5

Application of a biotin-labelled DNA probe to detect Campylobacter. Zhou YT, et al. **Int J Med Microbiol** 1989 Dec;272(2):186-90

Cloning of a species-specific DNA probe from Onchocerca gibsoni. Garate T, et al. **Int J Parasitol** 1990 Feb;20(1):31-5

Biotinylated probes for epidemiological studies of drug resistance in Salmonella krefeld. Pilantanapak A, et al. **J Antimicrob Chemother** 1990 Apr;25(4):593-603

DNA probes: a new role in diagnostic microbiology. Walker J, et al. **J Appl Bacteriol** 1989 Sep;67(3):229-38 (57 ref.)

DNA probes for studying streptothricin resistance evolution in enteric bacteria. Tietze E, et al. **J Basic Microbiol** 1990; 30(4):279-87

Acridinium ester-labelled DNA oligonucleotide probes. Septak M. **J Biolumin Chemilumin** 1989 Jul;4(1):351-6

Co-transformation of Lec 1 CHO cells with N-acetylglucosaminyltransferase 1 activity and a selectable marker. Ripka J, et al. **J Cell Biochem** 1990 Mar; 42(3):117-22

Differentiation of clinical isolates of Entamoeba histolytica by using specific DNA probes. Bracha R, et al. **J Clin Microbiol** 1990 Apr;28(4):680-4

Species-specific oligodeoxynucleotide probes for the identification of periodontal bacteria. Dix K, et al. **J Clin Microbiol** 1990 Feb;28(2):319-23

Species-specific cloned DNA probes for the identification of Campylobacter hyointestinalis. Gebhart CJ, et al. **J Clin Microbiol** 1989 Dec;27(12):2717-23

Detection of infectious bursal disease viruses by using cloned cDNA probes. Jackwood DJ, et al. **J Clin Microbiol** 1989 Nov;27(11):2437-43

DNA probe for the identification of Histoplasma capsulatum. Keath EJ, et al. **J Clin Microbiol** 1989 Oct;27(10):2369-72

Use of synthetic oligonucleotide DNA probes for the identification of Bacteroides gingivalis. Moncla BJ, et al. **J Clin Microbiol** 1990 Feb;28(2):324-7

Oligonucleotide probes for detection and differentiation of Staphylococcus aureus strains containing genes for enterotoxins A, B, and C and toxic shock syndrome toxin 1. Neill RJ, et al. **J Clin Microbiol** 1990 Jul;28(7):1514-8

Use of an alkaline phosphatase-labeled synthetic oligonucleotide probe for detection of Campylobacter jejuni and Campylobacter coli. Olive DM, et al. **J Clin Microbiol** 1990 Jul;28(7):1565-9

Laboratory and clinical evaluation of a commercial DNA probe for the detection of Legionella spp. Pasculle AW, et al. **J Clin Microbiol** 1989 Oct;27(10):2350-8

Molecular techniques for the detection of Chlamydia trachomatis. Peterson EM, et al. **J Clin Microbiol** 1989 Oct; 27(10):2359-63

Identification of enterotoxigenic Escherichia coli by colony hybridization with nonradioactive digoxigenin-labeled DNA probes. Riley LK, et al. **J Clin Microbiol** 1990 Jun; 28(6):1465-8

Evaluation of an rRNA-derived oligonucleotide probe for culture confirmation of Neisseria gonorrhoeae. Rossau R, et al. **J Clin Microbiol** 1990 May;28(5):944-8

Clinical application of novel sample processing technology for the identification of salmonellae by using DNA probes. Scholl DR, et al. **J Clin Microbiol** 1990 Feb;28(2):237-41

Cloned DNA probes identify Anaplasma ovis in goats and reveal a high prevalence of infection. Shompole S, et al. **J Clin Microbiol** 1989 Dec;27(12):2730-5

Simplified and accurate nonradioactive polynucleotide gene probe assay for identification of enterotoxigenic Escherichia coli. Sommerfelt H, et al. **J Clin Microbiol** 1990 Jan;28(1):49-54

Synthetic DNA probes for detection of enterotoxigenic Clostridium perfringens strains isolated from outbreaks of food poisoning. Van Damme-Jongsten M, et al. **J Clin Microbiol** 1990 Jan;28(1):131-3

Use of highly specific DNA probes and the polymerase chain reaction to detect Mycobacterium paratuberculosis in Johne's disease. Vary PH, et al. **J Clin Microbiol** 1990 May; 28(5):933-7

Use of Shigella flexneri ipaC and ipaH gene sequences for the general identification of Shigella spp. and enteroinvasive Escherichia coli [published erratum appears in J Clin Microbiol 1990 Jul;28(7):1681] Venkatesan MM, et al. **J Clin Microbiol** 1989 Dec;27(12):2687-91

Evaluation of a nonisotopic probe for detection of Chlamydia trachomatis in endocervical specimens. Woods GL, et al. **J Clin Microbiol** 1990 Feb;28(2):370-2

Identification of toxigenic Clostridium difficile strains by using a toxin A gene-specific probe. Wren BW, et al. **J Clin Microbiol** 1990 Aug;28(8):1808-12

Detection of human papilloma viruses in paraffin wax sections with biotinylated synthetic oligonucleotide probes and immunogold staining. Cubie HA, et al. **J Clin Pathol** 1989 Sep;42(9):988-91

In situ hybridisation in herpetic lesions using a biotinylated DNA probe. Dictor M, et al. **J Clin Pathol** 1990 May; 43(5):416-9

Detection of hepatitis B virus DNA in serum using synthetic non-radioactive oligonucleotides. Manzin A, et al. **J Clin Pathol** 1989 Nov;42(11):1206-10

Detection of Campylobacter pylori in stomach tissue by DNA in situ hybridisation. Van den Berg FM, et al. **J Clin Pathol** 1989 Sep;42(9):995-1000

Gene probes for the detection of aerolysin in Aeromonas spp. Husslein V, et al. **J Diarrhoeal Dis Res** 1988 Jun; 6(2):124-30

Enhanced conditions for DNA fingerprinting with biotinylated M13 bacteriophage. Moreno RF, et al. **J Forensic Sci** 1990 Jul;35(4):831-7

Highly polymorphic minisatellite DNA probes. Further evaluation for individual identification and paternity testing. Smith JC, et al. **J Forensic Sci Soc** 1990 Jan-Feb; 30(1):3-18

Synthesis of Y chromosome-specific labeled DNA probes by in vitro DNA amplification. Weier HU, et al. **J Histochem Cytochem** 1990 Mar;38(3):421-6

Restriction fragment length polymorphisms mapped in spontaneously hypertensive rats using kallikrein probes. Woodley-Miller C, et al. **J Hypertens** 1989 Nov; 7(11):865-71

A comparison of methods for the detection of human papillomavirus DNA by in situ hybridization with biotinylated probes on human carcinoma cell lines. Application to wart sections. Guérin-Reverchon I, et al. **J Immunol Methods** 1989 Oct 24;123(2):167-76

A sensitive and specific DNA probe to identify enteroaggregative Escherichia coli, a recently discovered diarrheal pathogen. Baudry B, et al. **J Infect Dis** 1990 Jun; 161(6):1249-51

Rapid diagnosis of Mycoplasma pneumoniae infection: clinical evaluation of a commercial probe test. Kleemola SR, et al. **J Infect Dis** 1990 Jul;162(1):70-5

The use of a specific DNA probe and polymerase chain reaction for the detection of Mycobacterium leprae [published erratum appears in J Infect Dis 1990 Sep;162(3):786] Williams DL, et al. **J Infect Dis** 1990 Jul; 162(1):193-200

Prenatal diagnosis of cystic fibrosis using closely linked DNA probes. Lissens W, et al. **J Inherited Metab Dis** 1989;12 Suppl 2:308-10

DNA dot-blot hybridization implicates human papillomavirus type 11-DNA in epithelioma cuniculatum. Knobler RM, et al. **J Med Virol** 1989 Sep;29(1):33-7

DNA-hybridization electron microscopy. Localization of five regions of 16 S rRNA on the surface of 30 S ribosomal subunits. Oakes MI, et al. **J Mol Biol** 1990 Feb 20; 211(4):897-906

DNA-hybridization electron microscopy tertiary structure of 16 S rRNA. Oakes MI, et al. **J Mol Biol** 1990 Feb 20; 211(4):907-18

Steroid hormone regulation of ribosomal RNA in rat hypothalamus: early detection using in situ hybridization and precursor-product ribosomal DNA probes. Jones KJ, et al. **J Neurosci** 1990 May;10(5):1513-21

Two different human papillomavirus (HPV) types associated with oral mucosal lesions in an HIV-seropositive man. Syrjänen S, et al. **J Oral Pathol Med** 1989 Jul;18(6):366-70

Expression of desmin gene in skeletal and smooth muscle by in situ hybridization using a human desmin gene probe. Bolmont C, et al. **J Submicrosc Cytol Pathol** 1990 Jan; 22(1):117-22

DNA probe technique for diagnosis of human cytomegalovirus infection. Zhang X, et al. **J Tongji Med Univ** 1989;9(3):170-3

Identification of rhinoviruses by cDNA probes. Auvinen P, et al. **J Virol Methods** 1990 Jan;27(1):61-8

Detection of human papillomavirus type 16 DNA in cervical swabs and formalin-fixed, paraffin-embedded squamous cell carcinomas of non-genital tissues using a synthetic oligodeoxynucleotide probe. Rakoczy P, et al. **J Virol Methods** 1989 Sep;25(3):325-36

A DNA probe for specific detection of Mycoplasma pulmonis. Kunita S, et al. **Jikken Dobutsu** 1989 Jul; 38(3):215-9

The characterization of human male-specific 5.7 kb DNA(pKY-1) and its application to fetal sex-determination probe. Nagai K, et al. **Jinrui Idengaku Zasshi** 1989 Dec; 34(4):261-7

Human type II collagen gene (COL2A1) assigned to chromosome 12q13.1-q13.2 by in situ hybridization with biotinylated DNA probe. Takahashi E, et al. **Jinrui Idengaku Zasshi** 1989 Dec;34(4):307-11

Hypervariable polymorphic VNTR loci for parentage testing and individual identification. Yokoi T, et al. **Jinrui Idengaku Zasshi** 1990 Jun;35(2):179-88

Genome analysis of El mouse brain using a technique of cDNA-RNA hybridization. Mui K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):573-4

Molecular genetics of the human Na+/glucose cotransporter. Hediger MA, et al. **Klin Wochenschr** 1989 Sep 1;67(17):843-6 (20 ref.)

DNA technology and rapid diagnosis of infection. **Lancet** 1989 Oct 14;2(8668):897-8 (13 ref.)

DNA probes for typing Neisseria meningitidis [letter; comment] Jones DM, et al. **Lancet** 1990 Jul 7; 336(8706):53-4 Comment on: Lancet 1990 May 19;335(8699):1182-4.

Identification of a UK outbreak strain of Neisseria meningitidis with a DNA probe [see comments] Knight AI, et al. **Lancet** 1990 May 19;335(8699):1182-4 Comment in: Lancet 1990 Jul 7;336(8706):53. Comment in: Lancet 1990 Jul 7;336(8706):53-4.

Total genomic DNA probe to detect Giardia lamblia [letter] Lewis DJ, et al. **Lancet** 1990 Jul 28;336(8709):257

First-trimester prenatal diagnosis of cystic fibrosis by direct gene probing [letter] McIntosh I, et al. **Lancet** 1989 Oct 21;2(8669):972-3

Development of a gene probe assay suitable for use in routine diagnosis: a pilot study using a DNA probe for parvovirus B19. Shattock RJ. **Med Lab Sci** 1990 Apr;47(2):97-102

Nuclease digestion: a method for mapping introns. Berger SL. **Methods Enzymol** 1989;180:325-34

Biotinylated nucleotides for labeling and detecting DNA. Klevan L, et al. **Methods Enzymol** 1990;184:561-77

Biotinylated psoralen derivative for labeling nucleic acid hybridization probes. Levenson C, et al. **Methods Enzymol** 1990;184:577-83

Use of a DNA probe to analyse the dynamics of infection with rodent malaria parasites confirms that parasite clearance during crisis is predominantly strain- and species-specific. Snounou G, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):37-46

Genus- and species-specific DNA probes to identify mycobacteria using the polymerase chain reaction. Fries JW, et al. **Mol Cell Probes** 1990 Apr;4(2):87-105

Comparison of a DNA probe with culture for detecting Chlamydia trachomatis directly from genital specimens. Gratton CA, et al. **Mol Cell Probes** 1990 Feb;4(1):25-31

Use of non-radioactive DNA probes for detection of Campylobacter jejuni and Campylobacter coli in stool specimens. Taylor DE, et al. **Mol Cell Probes** 1990 Aug; 4(4):261-71

Detection of bovine enteric coronavirus in clinical specimens by hybridization with cDNA probes. Verbeek A, et al. **Mol Cell Probes** 1990 Apr;4(2):107-20

The use of DNA probes in preimplantation and prenatal diagnosis. West JD. **Mol Reprod Dev** 1989;1(2):138-45 (61 ref.)

Detection of Y-bearing spermatozoa by DNA-DNA in situ hybridisation. West JD, et al. **Mol Reprod Dev** 1989; 1(3):201-7

Development of a chromosomal DNA probe for the laboratory diagnosis of aspergillosis. Gabal MA. **Mycopathologia** 1989 May;106(2):121-9

The confirmation of preclinical familial antithrombin deficiency using polymorphism and specific oligonucleotide probes. Beresford CH, et al. **N Z Med J** 1990 Jun 27;103(892):296-8

Blockade of ion channel expression in Xenopus oocytes with complementary DNA probes to Na+ and K+ channel mRNAs. Lotan I, et al. **Neuron** 1988 Dec;1(10):963-71

Species identification of blood stains using a biotin-labeled DNA probe. Tajima N, et al. **Nippon Hoigaku Zasshi** 1989 Apr;43(2):117-21

Molecular diagnosis of chronic myeloid leukemia using a 3'bcr probe. Berthéas MF, et al. **Nouv Rev Fr Hematol** 1989;31(6):393-5

Carrier detection in hemophilia using pedigree analysis coagulation tests and DNA probes. de la Salle C, et al. **Nouv Rev Fr Hematol** 1989;31(3):193-202

Routine HLA-DP typing by RFLP analysis. Mitsuishi Y, et al. **Nouv Rev Fr Hematol** 1989;31(6):387-92

Use of repetitive DNA probes as physical mapping strategy in Caenorhabditis elegans. Cangiano G, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5077-81

A polymorphic DNA probe from chromosome 7 (7q22). Casals T, et al. **Nucleic Acids Res** 1990 May 25;18(10):3108

An anonymous DNA segment (p phi 11) located to chromosome 21 identifies a PvuII polymorphism (D21S74). Deed RW, et al. **Nucleic Acids Res** 1990 May 25;18(10):3109

An anonymous DNA segment (p phi 91) located to chromosome 18 identifies an MspI polymorphism (D18S9). Deed RW, et al. **Nucleic Acids Res** 1990 May 25;18(10):3109

An anonymous DNA segment (p phi 82) located to chromosome 22 identifies polymorphisms with RsaI and MspI (D22S12). Deed RW, et al. **Nucleic Acids Res** 1990 May 25;18(10):3110

A polymorphic DNA probe, p1-10-2, from chromosome 6. Duvick L, et al. **Nucleic Acids Res** 1990 May 25;18(10):3105

Isolation of cDNA clones using yeast artificial chromosome probes. Elvin P, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):3913-7

The poly (purine) poly (pyrimidine) sequence in the 5' end of the thyroglobulin gene used as a probe, identifies a DNA fingerprint in man. Gérard C, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4297

A new multi-locus DNA fingerprinting probe: pV47-2. Longmire JL, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1658

Probing of unusual DNA structures in topologically constrained form V DNA: use of restriction enzymes as structural probe. Shouche YS, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):267-75

Probe 218EP6 (D16S246) detects RFLP's close to the locus affecting adult polycystic kidney disease (PKD1) on chromosome 16. Snijdewint FG, et al.

Nucleic Acids Res 1990 May 25;18(10):3108
pDP1007, detects an X polymorphism with HindIII in negroids at the ZFX locus. Spurdle AB, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3430
New TaqI allele detected by X-chromosome probe a21 (DXS17). Stevens G, et al. **Nucleic Acids Res** 1990 May 25;18(10):3113
An anonymous DNA probe E20 [D4S143] on chromosome 4 detects a TaqI polymorphism. Warnich L, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):690
An anonymous DNA probe M7 (D7S422) on chromosome 7 associated with two RFLP's. Warnich L, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5328
An anonymous DNA probe H35 (D9S41) on chromosome 9 detects a TaqI polymorphism. Warnich L, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3429
An anonymous DNA probe E141 (D5S99) on chromosome 5 detects an EcoRI polymorphism. Warnich L, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3428
An anonymous DNA probe H31 (D11S348) on chromosome 11 detects a HindIII polymorphism. Warnich L, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3429
The anonymous probe DR281 (D1S99) identifies a mspI polymorphism. Wiedorn KH, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1927
The anonymous probe DR258 (D7S438) identifies a HindIII polymorphism. Wiedorn KH, et al. **Nucleic Acids Res** 1990 May 25;18(10):3105
Fast and accurate test for human papilloma virus [news] **Oncology (Williston Park)** 1989 Apr;3(4):59–60
Differential diagnosis of Taenia saginata and Taenia solium with DNA probes. Harrison LJ, et al. **Parasitology** 1990 Jun;100 Pt 3:459–61
Ribosomal DNA-probes differentiate five cryptic species in the Anopheles gambiae complex. Collins FH, et al. **Parasitologia** 1988 May–Dec;30(2–3):231–40
Fluorescence in situ hybridization with Alu and L1 polymerase chain reaction probes for rapid characterization of human chromosomes in hybrid cell lines. Lichter P, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6634–8
Probe mapping to facilitate transposon-based DNA sequencing. Strausbaugh LD, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6213–7
Aneuploidy detection by analysis of interphase nuclei using fluorescence in situ hybridization with chromosome-specific probes. Eastmond DA, et al. **Prog Clin Biol Res** 1989;318:277–84
Detection of hepatitis B virus DNA in serum by spot hybridization technique: sensitivity and specificity of radiolabeled and biotin-labeled probes. Santantonio T, et al. **Ric Clin Lab** 1990 Jan–Mar;20(1):29–35
Use of a DNA probe in the diagnosis of enzootic bovine leukemia. Peirone B, et al. **Schweiz Arch Tierheilkd** 1990; 132(3):139–45
Phosphate-methylated DNA aimed at HIV-1 RNA loops and integrated DNA inhibits viral infectivity. Buck HM, et al. **Science** 1990 Apr 13;248(4952):208–12
Geneva on the beltway [news] Murphy E. **Science** 1990 May 25;248(4958):955
Detection of Plasmodium falciparum using a cloned DNA probe: a simple procedure suitable for field application. Boonsaeng V, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):519–22
Specific DNA probe for the sensitive detection of Trypanosoma evansi. Viseshakul N, et al. **Southeast Asian J Trop Med Public Health** 1990 Mar; 21(1):21–7
Detection of human papillomavirus DNA in genital condylomata in women and their male partners by using in situ hybridization with digoxygenin labeled probes. Konno R, et al. **Tohoku J Exp Med** 1990 Apr;160(4):383–90
Individual identification of human bloodstains investigated with hypervariable DNA loci. Yokoi T, et al. **Tohoku J Exp Med** 1990 May;161(1):9–18
Use of total parasite DNA probes for the direct detection of Trypanosoma cruzi and Trypanosoma rangeli in domiciliary Rhodnius prolixus. Greig S, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):59–60
Molecular probes for the detection of Pneumocystis carinii. Wakefield AE, et al. **Trans R Soc Trop Med Hyg** 1990;84 Suppl 1:17–8
Direct hybridization of biotin-labeled probes in dried agarose gels. Gontijo NF, et al. **Trends Genet** 1990 Jan;6(1):3
DNA probes for Mycoplasma gallisepticum and Mycoplasma synoviae: application in experimentally infected chickens. Hyman HC, et al. **Vet Microbiol** 1989 Aug;20(4):323–37
Characterization of a repetitive DNA probe for Babesia bigemina. Buening GM, et al. **Vet Parasitol** 1990 May; 36(1–2):11–20
Biotin and phosphorus-isotopic labelled DNA/RNA probes for the detection of human papilloma virus sequences. Schön HJ, et al. **Wien Klin Wochenschr** 1990 Aug 3; 102(15):449–54
Quantitative and qualitative analysis of DNA extracted from postmortem muscle tissues. Ogata M, et al. **Z Rechtsmed** 1990;103(6):397–406
[A primary study on molecular epidemiology of diarrhea caused by enterotoxigenic Escherichia coli by DNA colony hybridization using three enterotoxigenic gene-probes] Yu S. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Jun; 11(3):175–8 (Eng. Abstr.) **(Chi)**
[A preliminary study on detecting Plasmodium falciparum in blood by Plasmodium falciparum DNA probe] Yang JL, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1989;7(3):174–6 (Eng. Abstr.) **(Chi)**
[Biotinylated Y chromosome specific probe for human sexing] Wang SW. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Dec; 11(6):433–7 (Eng. Abstr.) **(Chi)**
[Study on molecular hybridization with biotin-labelled HPV 16 DNA probe in human cervical carcinoma] Li Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):246–8 (Eng. Abstr.) **(Chi)**
[A new method prepared gene probe] Zhang LY, et al. **Wei Sheng Wu Hsueh Pao** 1989 Feb;29(1):72–4 (Eng. Abstr.) **(Chi)**
[Determination of paternity using DNA analysis of chorionic villi] Mosinger B, et al. **Cas Lek Cesk** 1990 Mar 30; 129(13):400–2 (Eng. Abstr.) **(Cze)**
[The presence of human papillomavirus deoxyribonucleic acid in tumors in the otorhinolaryngologic area] Vonka R, et al. **Cas Lek Cesk** 1990 Mar 16;129(11):334–6 (Eng. Abstr.) **(Cze)**
[Human papillomavirus typing by molecular hybridization in situ with biotinylated probes. Optimization of sample preparation and hybridization time] Guérin-Reverchon I, et al. **Ann Pathol** 1990;10(3):201–5 (Eng. Abstr.) **(Fre)**
[Evaluation of a biotinylated probe for identification of Neisseria gonorrhoeae] Bollet C, et al. **Pathol Biol (Paris)** 1989 Oct;37(8):897–900 (Eng. Abstr.) **(Fre)**
[Use of nucleic probes in bacteriology (1)] Freney J, et al. **Pediatrie** 1990;45(1):13–20 (Eng. Abstr.) **(Fre)**
[Use of nucleic probes in bacteriology (2)] Freney J, et al. **Pediatrie** 1990;45(2):89–97 **(Fre)**
[Use of polymorphous DNA probes in the study of French families with Huntington's chorea] Lucotte G, et al. **Rev Neurol (Paris)** 1990;146(4):303–5 (Eng. Abstr.) **(Fre)**
[Sex determination of human blood micro-stains and single hairs using specific DNA amplification with polymerase chain reaction] Muellener D, et al. **Arch Kriminol** 1989 Nov–Dec;184(5–6):175–85 (Eng. Abstr.) **(Ger)**
[Possibilities of DNA sex determination in hair roots] Ohshima T, et al. **Arch Kriminol** 1990 May–Jun; 185(5–6):163–71 (Eng. Abstr.) **(Ger)**
[Typing of stored, hemolyzed blood samples by DNA fingerprinting] Roewer L, et al. **Arch Kriminol** 1989 Sep–Oct;184(3–4):103–7 (Eng. Abstr.) **(Ger)**
[Identification of blood stains and fetal tissue using genetic fingerprinting] Sprecher W, et al. **Arch Kriminol** 1990 Jan–Feb;185(1–2):44–51 (Eng. Abstr.) **(Ger)**
[Species identification by fragmented DNA] Baur C, et al. **Beitr Gerichtl Med** 1989;47:165–70 (Eng. Abstr.) **(Ger)**
[Differentiation of food composition in the digestive tract] Baur C, et al. **Beitr Gerichtl Med** 1989;47:541–3 (Eng. Abstr.) **(Ger)**
[Sex determination at the DNA level. Are inter-individual differences in male sex specific quotients to be expected?] Josephi E, et al. **Beitr Gerichtl Med** 1989;47:551–5 (Eng. Abstr.) **(Ger)**
[Classification of blood stains inside a car using molecular genetic methods] Josephi E, et al. **Beitr Gerichtl Med** 1989; 47:557–61 (Eng. Abstr.) **(Ger)**
[Methodologic variants of DNA blood stain analysis: extraction in agarose and digoxigenin marking] Prinz M, et al. **Beitr Gerichtl Med** 1989;47:175–9 (Eng. Abstr.) **(Ger)**
[Forensic use of polymorphism St 14.1] Rüter R, et al. **Beitr Gerichtl Med** 1989;47:171–4 (Eng. Abstr.) **(Ger)**
[Species identification in traces using molecular biology methods] Teifel-Greding J, et al. **Beitr Gerichtl Med** 1989; 47:545–50 (Eng. Abstr.) **(Ger)**
[New test systems in HIV diagnosis] Schüpbach J. **Beitr Infusionther** 1989;24:1–13 (10 ref.) (Eng. Abstr.) **(Ger)**
[Detection of papillomavirus types 6/11, 16/18 and 31/33/35 using DNA/RNA hybridization. Initial experiences] Wartusch B, et al. **Gynakol Rundsch** 1989;29 Suppl 2:402–4 **(Ger)**
[Nucleic acid hybridization for direct detection of Chlamydia trachomatis. Comparison of a radioactive with a non-radioactive procedure] Näher H, et al. **Hautarzt** 1990 Mar;41(3):151–4 (Eng. Abstr.) **(Ger)**
[Adenovirus infection with hemorrhagic cystitis and pneumonia. Pathogen confirmation in urine by genome hybridization] Schuster V, et al. **Monatsschr Kinderheilkd** 1990 Jul;138(7):392–4 (Eng. Abstr.) **(Ger)**
[Diagnostic DNA probes] Fey MF. **Schweiz Med Wochenschr** 1990 May 19;120(20):731–7 (31 ref.) (Eng. Abstr.) **(Ger)**
[Assessment of apparent non-maternity using individual specific gene probes] Fischer G, et al. **Wien Klin Wochenschr** 1990 May 11;102(10):309–11 (Eng. Abstr.) **(Ger)**
[Genetic study in 8 families with a child with cystic fibrosis] Riedler J, et al. **Wien Klin Wochenschr** 1989 Sep 1; 101(16):548–51 (Eng. Abstr.) **(Ger)**
[Molecular biology in the differentiation between pathogenic and apathogenic isolates of Entamoeba histolytica] Tannich E, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:71–4 **(Ger)**
[Virus-induced papilloma of the conjunctiva. Detection of HPV 6a DNA] Fierlbeck G, et al. **Z Hautkr** 1990 May; 65(5):497–9 (Eng. Abstr.) **(Ger)**
[Use of DNA polymorphism in forensic paternity evaluation] Henke L, et al. **Z Rechtsmed** 1990;103(4):235–48 (Eng. Abstr.) **(Ger)**
[The detection of legionellae in a water pipe system using gene probe technics and culture methods] Bauer R, et al. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):78–83 (Eng. Abstr.) **(Ger)**
[Genetic studies of Duchenne muscular dystrophy families using the dystrophy families using the dystrophin cDNA] Saito K, et al. **No To Hattatsu** 1989 Jul;21(4):361–8 (Eng. Abstr.) **(Jpn)**
[Strategy for molecular diagnosis of Duchenne muscular dystrophy: alleles frequency in RFLPs detected with X-linked probes in normal Japanese] Fujishita S, et al. **Rinsho Shinkeigaku** 1989 May;29(5):554–7 (Eng. Abstr.) **(Jpn)**
[Gene technology in medical microbiology—a general review] Bøvre K, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3216–8 **(Nor)**
[Gene technology in medical microbiology—epidemiology and diagnosis] Kapperud G, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3219–22 (Eng. Abstr.) **(Nor)**
[Modification of DNA with dihydrazide of succinic acid for preparation of hybridization probes] Turchinskiĭ MF, et al. **Bioorg Khim** 1989 Oct;15(10):1341–5 (Eng. Abstr.) **(Rus)**
[Expression of ceruloplasmin gene in mammalian organs from the data of hybridization analysis with complementary DNA probes] Shvartsman AL, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):657–62 (Eng. Abstr.) **(Rus)**
[Specific DNA probe for detecting Legionella pneumophila] Nagaev IG, et al. **Mol Gen Mikrobiol Virusol** 1990 May; (5):8–12 (Eng. Abstr.) **(Rus)**
[Genomic "dactyloscopy" with the use of bacteriophage M13 as a DNA probe (the expertise of material evidence and personal identification)] Ivanov PL, et al. **Sud Med Ekspert** 1989 Oct–Dec;32(4):39–42 (Eng. Abstr.) **(Rus)**
[The use of a molecular DNA probe based on the cloned cytolysin gene for the identification of Legionella] Tartakovskiĭ IS, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan;(1):20–3 (Eng. Abstr.) **(Rus)**
[Use of recombinant DNA technics in the diagnosis of hereditary diseases] Košovský J, et al. **Bratisl Lek Listy** 1989 Jul;90(7):532–9 (24 ref.) (Eng. Abstr.) **(Slo)**
[Diagnosis using DNA studies] Benítez J. **Rev Clin Esp** 1990 Apr;186(6):281–5 (19 ref.) **(Spa)**

ANALYSIS

Immunohistochemical localization of polysialic acid in tissue sections: differential binding to polynucleotides and DNA of a murine IgG and a human IgM monoclonal antibody. Husmann M, et al. **J Histochem Cytochem** 1990 Feb; 38(2):209–15
Albumin and collagen mRNA expression in normal and analbuminemic rodent liver: analysis by in situ hybridization using biotinylated probes. Saber MA, et al. **J Histochem Cytochem** 1990 Feb;38(2):199–207
Detection of cervical human papillomavirus by molecular probes [letter] Douyon S, et al. **JAMA** 1990 Jul 25; 264(4):453
HPV DNA typing of adult-onset respiratory papillomatosis. Duggan MA, et al. **Laryngoscope** 1990 Jun;100(6):639–42
Detection of human papillomavirus DNA in laryngeal squamous cell carcinomas by polymerase chain reaction. Hoshikawa T, et al. **Laryngoscope** 1990 Jun;100(6):647–50
[Detection of papilloma virus in the cervix of the human uterus by in situ hybridization—Comparative study of detection rate by Southern blot method] Ishi K, et al. **Rinsho Byori** 1989 Oct;37(10):1161–6 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Synthesis in vitro and application of biotinylated DNA probes for human papilloma virus type 16 by utilizing the polymerase chain reaction. Day PJ, et al. **Biochem J** 1990 Apr 1;267(1):119–23
Synthesis of digoxigenin-labelled DNA probe by polymerase chain reaction: application to Epstein-Barr virus and Chlamydia trachomatis. Griffais R, et al. **Res Virol** 1990 May–Jun;141(3):331–5

CHEMICAL SYNTHESIS

Synthesis of nucleic acid probes on membrane supports: a procedure for the removal of unincorporated precursors. Bhat SP. **Anal Biochem** 1990 Jan;184(1):59–62
"Run-off" synthesis and application of defined single-stranded DNA hybridization probes. Stürzl M, et al. **Anal Biochem** 1990 Feb 15;185(1):164–9
The preparation of polyamide-oligonucleotide probes containing multiple non-radioactive labels. Haralambidis J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):501–5
Stopping the DNA polymerase activity at a specific site with a dideoxyoligonucleotide: selective labelling of single stranded circular DNA. Mattanovich D, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8384
[Evaluation of the relative effectiveness of hybridization probes prepared by action of hydrazides of biotin

derivatives on DNA] Karpyshev NN, et al. **Bioorg Khim** 1990 May;16(5):605–9 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Philadelphia–chromosome positive essential thrombocythemia. Two cases in children. Kastan MB, et al. **Am J Pediatr Hematol Oncol** 1989 Winter;11(4):433–6

Development and clinical application of DNA probe specific for Peptostreptococcus micros. Yasui S. **Bull Tokyo Med Dent Univ** 1989 Dec;36(4):49–62

Plasmodium falciparum: DNA probe diagnosis of malaria in Kenya. Barker RH Jr, et al. **Exp Parasitol** 1989 Oct; 69(3):226–33

Early detection of hereditary medullary thyroid cancer with polymorphic DNA probes. Groupe d'Etude des Tumeurs a Calcitonine. Narod SA, et al. **Henry Ford Hosp Med J** 1989;37(3–4):106–8

Evaluation and practical aspects of the use of a commercial DNA probe for detection of mycoplasma infections in cell cultures. Johansson KE, et al. **J Biochem Biophys Methods** 1989 Aug–Sep;19(2–3):185–99

Human papillomavirus infection of the uterine cervix analyzed by nonisotopic in situ hybridization. Hara Y, et al. **J Med Virol** 1990 Jun;31(2):120–8

Polyethylene glycol increases specificity of hybridization typing of HPV specimens. Auvinen E, et al. **Mol Cell Probes** 1989 Sep;3(3):289–98

Rapid detection of herpes simplex virus DNA by in situ hybridization with photobiotin–labelled double–stranded DNA probes. Chantratita W, et al. **Mol Cell Probes** 1989 Dec;3(4):363–73

Detection of bovine leukaemia virus (BLV) infection by DNA probe technology. Gaudi S, et al. **Mol Cell Probes** 1990 Jun;4(3):163–74

Affinity–based collection of amplified viral DNA: application to the detection of human immunodeficiency virus type 1, human cytomegalovirus and human papillomavirus type 16. Harju L, et al. **Mol Cell Probes** 1990 Jun;4(3):223–35

Detection of Legionella with polymerase chain reaction and gene probe methods. Mahbubani MH, et al. **Mol Cell Probes** 1990 Jun;4(3):175–87

Solution hybridization and enzyme immunoassay for biotinylated DNA–RNA hybrids to detect enteroviral RNA in cell culture. Newman CL, et al. **Mol Cell Probes** 1989 Dec;3(4):375–82

A DNA hybridization test for detection of Bordetella in nasopharyngeal specimens. Reizenstein E, et al. **Mol Cell Probes** 1990 Jun;4(3):211–21

Detection of parvovirus B19 by dot–blot and polymerase chain reaction. Sevall JS. **Mol Cell Probes** 1990 Jun; 4(3):237–46

A gene probe to detect Mycoplasma hyopneumoniae, the etiological agent of enzootic porcine pneumonia. Stemke GW. **Mol Cell Probes** 1989 Sep;3(3):225–32

A rapid DNA probe test for detecting human papilloma virus types 6/11 and 16 in biopsy specimens. Todd JA, et al. **Mol Cell Probes** 1989 Sep;3(3):273–88

Carrier detection and prenatal diagnosis in Norrie disease. Curtis D, et al. **Prenat Diagn** 1989 Oct;9(10):735–40

Prenatal diagnosis of Chinese homozygous alpha–thalassaemia 1 and haemoglobin H disease by analysis of alpha– and phi zeta–globin genes in chorionic villi and amniocytes. Ko TM, et al. **Prenat Diagn** 1989 Oct; 9(10):715–25

New diagnostic methods for anaerobic bacteria. Romond C. **Scand J Infect Dis Suppl** 1989;62:35–40 (29 ref.)

[Use of nucleic probes in bacteriology (1)] Freney J, et al. **Pediatrie** 1990;45(1):13–20 (Eng. Abstr.) **(Fre)**

[Applications to clinico–pathological diagnosis of in situ hybridization] López–Talavera JC, et al. **Med Clin (Barc)** 1990 Jan 13;94(1):15–7 (21 ref.) **(Spa)**

GENETICS

Diagnostic complementary DNA probes for genome segments 2 and 3 of epizootic hemorrhagic disease virus serotype 1. Wilson WC, et al. **Am J Vet Res** 1990 Jun; 51(6):855–60

Assignment of 35 single–copy and 17 repetitive sequence DNA probes to human chromosome 3: high–resolution physical mapping of 7 DNA probes by in situ hybridization. Atchison L, et al. **Genomics** 1990 Mar;6(3):441–50

DXS26 (HU16) is located in Xq21.1. Sankila EM, et al. **Hum Genet** 1990 Jun;85(1):117–20

A deletion panel of the long arm of the X chromosome: subregional localization of 22 DNA probes. Yang HM, et al. **Hum Genet** 1990 Jun;85(1):25–30

A comparison of two DNA probes, one specific for Plasmodium falciparum and one with wider reactivity, in the diagnosis of malaria. Holmberg M, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):202–5

ISOLATION & PURIFICATION

Isolation and use of chromosome 1 probes for linkage studies on Charcot–Marie–Tooth disease. Griffiths LR, et al. **Ann Hum Genet** 1990 Jan;54 (Pt 1):31–7

Isolation of the DNA minisatellite probe MZ 1.3 and its application to DNA 'fingerprinting' analysis. Schacker U, et al. **Forensic Sci Int** 1990 Feb;44(2–3):209–24

Structure of 3'–downstream segment of the human smooth muscle (aortic–type) alpha–actin–encoding gene and isolation of the specific DNA probe. Kamada S, et al. **Gene** 1989 Dec 14;84(2):455–62

Rapid isolation of human chromosome–specific DNA probes from a somatic cell hybrid. Cotter FE, et al. **Genomics** 1990 Jun;7(2):257–63

Rapid isolation of DNA probes within specific chromosome regions by interspersed repetitive sequence polymerase chain reaction. Ledbetter SA, et al. **Genomics** 1990 Mar; 6(3):475–81

Isolation of anonymous, polymorphic DNA fragments from human chromosome 22q12–qter. Dumanski JP, et al. **Hum Genet** 1990 Feb;84(3):219–22

Isolation and characterization of DNA sequences from flow–sorted human chromosome 22 libraries. Metzdorf R, et al. **Hum Hered** 1990;40(3):145–52

Specific Neisseria gonorrhoeae DNA–probes derived from ribosomal RNA. Rossau R, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1735–45

Highly sensitive and specific non–radioactive biotinylated probes for dot–blot, Southern and colony hybridizations. Eweida M, et al. **J Virol Methods** 1989 Oct;26(1):35–43

PHARMACOLOGY

Interaction of tetra–azaphenanthrene ruthenium complexes with DNA and oligonucleotides. A photophysical and photochemical investigation. Kelly JM, et al. **Anticancer Drug Des** 1990 Feb;5(1):69–75

Uranyl photoprobing of conformational changes in DNA induced by drug binding. Nielsen PE, et al. **Anticancer Drug Des** 1990 Feb;5(1):105–10

STANDARDS

A comparison of biotin– and 35S–based in situ hybridization methodologies for detection of human papillomavirus DNA [published erratum appears in Lab Invest 1989 Nov;61(5):538] Nuovo GJ, et al. **Lab Invest** 1989 Oct; 61(4):471–6

DNA PROBES, HLA see under **DNA PROBES**

DNA PROBES, HPV see under **DNA PROBES**

DNA REARRANGEMENT see **GENE REARRANGEMENT**

DNA, RECOMBINANT

see related
GENETIC ENGINEERING

Recombinant DNA technology as it relates to human papillomavirus research. Ostrow RS, et al. **Adv Dermatol** 1986;1:223–35 (32 ref.)

Drug products of recombinant DNA technology. Black WJ. **Am J Hosp Pharm** 1989 Sep;46(9):1834–44 (34 ref.)

A crossroad. Seemayer TA. **Am J Surg Pathol** 1990 Mar; 14(3):203–5

Recombinant DNA and surgery. Brown JM, et al. **Ann Surg** 1990 Aug;212(2):178–86 (46 ref.)

Model to predict aerial dispersal of bacteria during environmental release. Knudsen GR. **Appl Environ Microbiol** 1989 Oct;55(10):2641–7

Survival of Pseudomonas putida UWC1 containing cloned catabolic genes in a model activated–sludge unit. McClure NC, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2627–34

Direct phenotypic and genotypic detection of a recombinant pseudomonad population released into lake water. Morgan JA, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2537–44

Purification and characterization of human plasminogen activator inhibitor type I expressed in Saccharomyces cerevisiae. Gardell SJ, et al. **Arch Biochem Biophys** 1990 May 1;278(2):467–74

A versatile non–radioactive technique for restriction analysis of recombinant DNA. Knochenhauer S, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1040–4

A new recombinant DNA strategy for the molecular cloning of rare membrane proteins. Brake B, et al. **Biochem J** 1990 May 1;267(3):631–7

Design of an aprotinin variant with inhibitory activity against chymotrypsin and cathepsin G by recombinant DNA technology. Brinkmann T, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:43–52

Gene splicing by overlap extension: tailor–made genes using the polymerase chain reaction. Horton RM, et al. **Biotechniques** 1990 May;8(5):528–35

A rapid procedure to evaluate foreign DNA transfer into mammals. Pinkert CA. **Biotechniques** 1990 Jul;9(1):38–9

Recombinant DNA laboratory data manager using DBASE III+. Sinclair DG, et al. **Biotechniques** 1990 Jun;8(6):666–9

A Macintosh program for the management of biological samples generated by recombinant DNA techniques. Waye MM. **Biotechniques** 1990 Jun;8(6):660–4

Molecular targeting and delivery: applications of recombinant DNA technology. Soria M. **Biotechnol Appl Biochem** 1989 Dec;11(6):527–51 (157 ref.)

The molecular genetics of cancer. Introduction to principles of recombinant DNA technology. Benz EJ Jr. **Cancer** 1990 Feb 1;65(3 Suppl):731–41

Parental origin of chromosomal nondisjunction in a 49,XXXXY male using recombinant–DNA techniques. Villamar M, et al. **Clin Genet** 1989 Sep;36(3):152–5

A database management system for recombinant DNA clones and hosts for use in IBM personal computers. Roy A, et al. **Comput Appl Biosci** 1989 Oct;5(4):321–2

Expression of microinjected hsp 70/CAT and hsp 30/CAT chimeric genes in developing Xenopus laevis embryos. Krone PH, et al. **Development** 1989 Jun;106(2):271–81

Molecular mechanism of growth hormone (GH) deficiency in the spontaneous dwarf rat: detection of abnormal splicing of GH messenger ribonucleic acid by the polymerase chain reaction. Takeuchi T, et al. **Endocrinology** 1990 Jan; 126(1):31–8

Loa loa: identification of genomic DNA clones expressing recombinant antigens. Egwang T, et al. **Exp Parasitol** 1990 May;70(4):490–3

Expression of human alpha 1–antitrypsin using a recombinant adenovirus vector. Gilardi P, et al. **FEBS Lett** 1990 Jul 2;267(1):60–2

Structural and functional stability of foreign genes in transgenic tobacco plants. Vyskot B, et al. **Folia Biol (Praha)** 1989;35(6):360–72

Probing of B–Z junctions in recombinant plasmids in vitro and in the cell with different osmium tetroxide complexes. Boublíková P, et al. **Gen Physiol Biophys** 1989 Oct; 8(5):475–90

Expression and activity of a gene encoding rat cytochrome c in the yeast Saccharomyces cerevisiae. Clements JM, et al. **Gene** 1989 Nov 15;83(1):1–14

Recombinant selection by microinjection: a simple cDNA cloning procedure for production of exclusively sense RNA transcripts. Digweed M, et al. **Gene** 1989 Nov 15; 83(1):147–52

Saturation mutagenesis of specific codons: elimination of molecules with stop codons from mixed pools of DNA. Little JW. **Gene** 1990 Mar 30;88(1):113–5

Recombination in yeast and the recombinant DNA technology. Petes TD, et al. **Genome** 1989;31(2):536–40 (39 ref.)

Interspecies relationship of a repetitive chromosome–specific DNA. Scherthan H, et al. **Hereditas** 1989;111(2):183–8

Diagnosis of genetic disease using recombinant DNA. Second edition. Cooper DN, et al. **Hum Genet** 1989 Nov; 83(4):307–34 (16 ref.)

Genetic instability of an artificial palindrom DNA sequence. Shafferman A, et al. **J Biomol Struct Dyn** 1983 Dec; 1(3):729–42

Clinical review 5: Recombinant DNA strategies for determining the molecular basis of endocrine disorders. Jameson JL, et al. **J Clin Endocrinol Metab** 1990 Feb; 70(2):301–7 (7 ref.)

RecA–independent high–frequency deletion of recombinant cosmid DNA in Escherichia coli. Ishiura M, et al. **J Gen Microbiol** 1990 Jan;136 (Pt 1):69–79

High–level expression of chimeric antibodies using adapted cDNA variable region cassettes. Gillies SD, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):191–202

Molecular mechanisms of nucleic acid integration. Coffin JM. **J Med Virol** 1990 May;31(1):43–9 (29 ref.)

Molecular miscegenation. Jukes TH. **J Mol Evol** 1989 Nov; 29(5):371–2

Evolution of the neuron–specific alternative splicing product of the c–src proto–oncogene. Raulf F, et al. **J Neurosci Res** 1989 Sep;24(1):81–8

Developments in the new genetics. Emery AE. **J Public Health Med** 1990 Feb;12(1):60–5

Recombinant DNA technology in haematology. Blann AD. **Med Lab Sci** 1988 Oct;45(4):349–57 (87 ref.)

Relationship of vector insert size to homologous integration during transformation of Neurospora crassa with the cloned am (GDH) gene. Asch DK, et al. **Mol Gen Genet** 1990 Mar;221(1):37–43

Recombinant DNA regulation. India opts for self–control [news] Jayaraman KS. **Nature** 1990 Feb 22;343(6260):680

Construction of a biologically active recombinant DNA plasmid containing a mouse metallothionein promoter and genomic bovine growth hormone gene. Leung FC, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4942

The possibilities of recombinant DNA technology for the elucidation of the structure of steroid receptors and their mode of action. Rentier–Delrue F, et al. **Prog Clin Biol Res** 1990;342:163–7 (13 ref.)

The significance of DNA technology in medicine. Müller H. **Prog Drug Res** 1989;33:397–413 (30 ref.)

Expression of transfected recombinant oncogenes increases radiation resistance of clonal hematopoietic and fibroblast cell lines selectively at clinical low dose rate. FitzGerald TJ, et al. **Radiat Res** 1990 Apr;122(1):44–52

Department of Health and Human Services, Public Health Service, National Institutes of Health. Recombinant DNA Advisory Committee. Minutes of meeting, October 6, 1989. **Recomb DNA Tech Bull** 1989 Dec;12(4):213–61

Department of Health and Human Services, Public Health Service, National Institutes of Health. Recombinant DNA Advisory Committee, Revision of the NIH Guidelines Subcommittee. Minutes of meeting, June 5, 1989. **Recomb DNA Tech Bull** 1989 Sep;12(3):171–82

Department of Health and Human Services, National Institutes of Health. Notice of actions under the NIH Guidelines for Research Involving Recombinant DNA Molecules. **Recomb DNA Tech Bull** 1990 Mar;13(1):10–62

Department of Health and Human Services, Public Health Service, National Institutes of Health. Recombinant DNA Advisory Committee. Minutes of meeting, January 30, 1989. **Recomb DNA Tech Bull** 1989 Jun;12(2):69–134

Department of Health and Human Services, Public Health

Service, National Institutes of Health. Recombinant DNA Advisory Committee, Points to Consider Subcommittee. Minutes of meeting, March 31, 1989.
Recomb DNA Tech Bull 1989 Sep;12(3):151–70
Recombinant DNA research; proposed actions under guidelines. National Institutes of Health, PHS, DHHS. Moskowitz J. **Recomb DNA Tech Bull** 1989 Sep; 12(3):194–201
Department of Health and Human Services, National Institutes of Health. Recombinant DNA research: actions under guidelines. Wyngaarden JB.
Recomb DNA Tech Bull 1989 Jun;12(2):138–40
Clinical features and diagnosis by recombinant DNA techniques of familial amyloid polyneuropathy in Japan. Harada T, et al. **Res Commun Chem Pathol Pharmacol** 1989 Aug;65(2):237–44
Biosafety considerations in industries with production methods based on the use of recombinant deoxyribonucleic acid. Andrup L, et al. **Scand J Work Environ Health** 1990 Apr;16(2):85–95 (46 ref.)
Germ–line transmission of a c–abl mutation produced by targeted gene disruption in ES cells. Schwartzberg PL, et al. **Science** 1989 Nov 10;246(4931):799–803
Association of foreign DNA sequence with male sterility and translocation in a line of transgenic mice. Gordon JW, et al. **Somat Cell Mol Genet** 1989 Nov;15(6):569–78
Expression of a metallothionein–vasopressin fusion gene in transgenic mice produces hypervasopressinemia and manifestatioes of nephrogenic diabetes insipidus. Habener JF, et al. **Trans Assoc Am Physicians** 1988;101:155–62
Disease symptoms in transgenic tobacco induced by integrated gene VI of cauliflower mosaic virus. Balázs E. **Virus Genes** 1990 Feb;3(3):205–11
Intracellular processing and immunogenicity of the envelope proteins of human T–cell leukemia virus type I that are expressed from recombinant vaccinia viruses. Seki M, et al. **Virus Genes** 1990 Feb;3(3):235–49
[Transformation and identification of recombinant plasmid pAT153 containing HCMV gene Hind III F fragment and its clinical application] Wu J, et al.
Hua Hsi I Ko Ta Hsueh Hsueh Pao 1990 Jun;21(2):117–20 (Eng. Abstr.) **(Chi)**
[Engerix–B, hepatitis B vaccine produced by means of a recombinant DNA technic] Ring–Larsen H.
Ugeskr Laeger 1990 Jun 25;152(26):1917–9 **(Dan)**
[Gene technology in medical microbiology—a general review] Bøvre K, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3216–8 **(Nor)**
[Use of recombinant DNA technics in the diagnosis of hereditary diseases] Košovský J, et al. **Bratisl Lek Listy** 1989 Jul;90(7):532–9 (24 ref.) (Eng. Abstr.) **(Slo)**

ANALYSIS

Detection in soil of a deletion in an engineered DNA sequence by using DNA probes. Jansson JK, et al.
Appl Environ Microbiol 1989 Nov;55(11):3022–5
Primary structure of the non–transcribed spacer region and flanking sequences of the ribosomal DNA of Neurospora crassa and comparison with other organisms. Dutta SK, et al. **Biochem Biophys Res Commun** 1990 Jul 16; 170(1):187–93
Production of shorter mRNA for protein phosphatase 2A beta by alternative poly(A) addition. Sasaki K, et al.
Biochem Biophys Res Commun 1990 Jul 16;170(1):169–75
Xylan degradation by the thermophile Clostridium stercorarium: cloning and expression of xylanase, beta–D–xylosidase, and alpha–L–arabinofuranosidase genes in Escherichia coli. Schwarz WH, et al.
Biochem Biophys Res Commun 1990 Jul 16;170(1):368–74
Insulin enhancer binding protein has helix–loop–helix structure. Shibasaki Y, et al.
Biochem Biophys Res Commun 1990 Jul 16;170(1):314–21
Molecular cloning of guinea–pig aromatic–L–amino acid decarboxylase cDNA. Taketoshi M, et al.
Biochem Biophys Res Commun 1990 Aug 16;170(3):1229–35
Molecular cloning of two species of cDNAs for human alpha–N–acetylgalactosaminidase and expression in mammalian cells. Yamauchi T, et al.
Biochem Biophys Res Commun 1990 Jul 16;170(1):231–7
Cloning and expresion of human salivary–gland kallikrein in Escherichia coli. Angermann A, et al. **Biochem J** 1989 Sep 15;262(3):787–93
Recommendations of the Society for Forensic Haemogenetics concerning DNA polymorphisms [editorial] **Forensic Sci Int** 1989 Oct–Nov;43(2):109–11
Multiple bandshift assay: rapid identification and cloning of DNA fragments containing specific protein–binding sites. Kozmik Z, et al. **Gene** 1990 Jun 15;90(2):287–91
Protein engineering by cDNA recombination in yeasts: shuffling of mammalian cytochrome P–450 functions. Pompon D, et al. **Gene** 1989 Nov 15;83(1):15–24
Turbo–screening of bacterial colonies using microwave denaturation on paper filters. Forster A, et al.
Trends Genet 1990 May;6(5):141

BIOSYNTHESIS

In vitro transcription of the plasma protein genes of Bombyx mori. Sakurai H, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):18–24
Cloning and expression of a cDNA encoding mouse kidney D–amino acid oxidase. Tada M, et al. **Gene** 1990 Jun 15; 90(2):293–7

CHEMICAL SYNTHESIS

Construction of recombinant DNA molecules by the use of a single stranded DNA generated by the polymerase chain reaction: its application to chimeric hepatitis A virus/poliovirus subgenomic cDNA. Wychowski C, et al.
Nucleic Acids Res 1990 Feb 25;18(4):913–8

DIAGNOSTIC USE

Molecular cloning of sequence–specific DNA binding proteins using recognition site probes. Singh H, et al.
Biotechniques 1989 Mar;7(3):252–61 (53 ref.)

GENETICS

A procedure for cloning restriction fragments of DNA as single inserts in yeast artificial chromosomes. Sgaramella V, et al. **Biochem Int** 1990;20(3):503–10
Multiple cloning site template for use in sequencing of plasmid clones. Carmack CE. **Biotechniques** 1990 Jul; 9(1):45–6
Cloning vector artifacts in the DNA database. Hodgson CP.
Biotechniques 1990 Jul;9(1):54–5
Targeted DNA sequencing: rapid identification of DNA clones by sequencing DNA using mixed oligodeoxynucleotide probes as primers. Javed AA, et al.
Biotechniques 1990 Jul;9(1):28–32
A rapid method for site–specific mutagenesis and directional subcloning by using the polymerase chain reaction to generate recombinant circles. Jones DH, et al.
Biotechniques 1990 Feb;8(2):178–83
Sequencing reactions in microtiter plates. Koop BF, et al.
Biotechniques 1990 Jul;9(1):32, 34–7
Direct DNA sequencing of cDNA inserts from plaques using the linear polymerase chain reaction. Smith DP, et al.
Biotechniques 1990 Jul;9(1):48, 50, 52; passim
On the application of molecular cloning to developmental neurobiology. Schrier BK, et al. **Int J Neurol** 1982–83; 16–17:46–60
Host range determinant in the late region of SV40 and RF virus affecting growth in human cells. O'Neill FJ, et al.
Intervirology 1990;31(2–4):175–87
Differential splicing generates a nervous system–specific form of Drosophila neuroglian. Hortsch M, et al. **Neuron** 1990 May;4(5):697–709
[Biological effects accompanying the microinjection of adenovirions, adenoviral and plasmid DNA into mammalian cells] Zavizion BA, et al. **Mol Biol (Mosk)** 1989 Jul–Aug;23(4):1022–35 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Immunogenicity of a low dose recombinant DNA hepatitis B vaccine in healthy adults in Singapore. Guan R, et al.
Asian Pac J Allergy Immunol 1989 Dec;7(2):85–8
Overview of biological effects of addition of DNA molecules to cells. Temin HM. **J Med Virol** 1990 May;31(1):13–7 (36 ref.)
Identification of consensus epitope structures expressed in recombinant DNA libraries. Bramucci M, et al.
Mol Immunol 1989 Aug;26(8):741–8

ISOLATION & PURIFICATION

Large–scale isolation of plasmid DNA using cetyltrimethylammonium bromide. Ishaq M, et al.
Biotechniques 1990 Jul;9(1):19–20, 22, 24
Comment of the use of Qiagen columns to purify plasmids. Meyer E. **Biotechniques** 1990 Jul;9(1):39
A rapid and convenient procedure for identifying recombinant plasmids. Shepard BA, et al. **Biotechniques** 1990 Apr;8(4):388
Purification and some properties of the fast migrating alkaline phosphatase in FL–amnion cells (the Kasahara isoenzyme) and its cDNA cloning. Higashino K, et al.
Clin Chim Acta 1990 Jan 15;186(2):151–64
Isolation of a genomic sublibrary enriched for glucocorticoid–regulated genes. Harrison RW 3d, et al.
DNA Cell Biol 1990 Mar;9(2):95–102
[The selective isolation of cosmid clones by homologous recombination in Escherichia coli—a cosmid clone containing t complex linkage DNA sequence of mouse was isolated] Chai JH. **I Chuan Hsueh Pao** 1990;17(1):38–45 (Eng. Abstr.) **(Chi)**
[Stable recombinants of bacteriophage M13 and plasmid pBR322] Dagert M. **Acta Cient Venez** 1989;40(2):124–6 (Eng. Abstr.) **(Spa)**

METABOLISM

Improvement of plasmid stability by immobilization of recombinant microorganisms. Barbotin JN, et al.
Ann N Y Acad Sci 1990;589:41–53
Effects of promoter induction and copy number amplification on cloned gene expression and growth of recombinant cell cultures. Betenbaugh MJ, et al. **Ann N Y Acad Sci** 1990; 589:111–20
Fermentation development of recombinant Pichia pastoris expressing the heterologous gene: bovine lysozyme. Brierley RA, et al. **Ann N Y Acad Sci** 1990;589:350–62
Effects of culture conditions on plasmid stability and production of a plasmid–encoded protein in batch and continuous cultures of Escherichia coli JM103[pUC8] Ryan W, et al. **Ann N Y Acad Sci** 1990;589:91–110
The primary structure of rat ribosomal protein L35. Suzuki K, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1377–82
High–level expression of recombinant genes in Escherichia coli is dependent on the availability of the dnaY gene product. Brinkmann U, et al. **Gene** 1989 Dec 21; 85(1):109–14
DNA recombination during PCR. Meyerhans A, et al.
Nucleic Acids Res 1990 Apr 11;18(7):1687–91
Constructing DNA by polymerase recombination. Yolov AA, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3983–6

PHARMACOKINETICS

Introduction and expression of DNA molecules in eukaryotic cells by electroporation [published erratum appears in Biotechniques 1988 Oct;6(9):853] Andreason GL, et al.
Biotechniques 1988 Jul–Aug;6(7):650–60 (62 ref.)

PHARMACOLOGY

Stability of the transformants obtained by phage particle–mediated gene transfer. Ishiura M, et al.
Cell Struct Funct 1989 Aug;14(4):495–9

DNA RECOMBINANT PROTEINS see **RECOMBINANT PROTEINS**

DNA RELAXING ENZYMES see **DNA UNTWISTING PROTEINS**

DNA REPAIR

see related

PYRIMIDINE DIMERS

The pattern of population growth as a function of redundancy and repair. Steiner A, et al.
Acta Biotheor (Leiden) 1990 Jun;38(2):83–90
Disturbances of DNA repair in psoriatic patients. Mordovtsev VN, et al.
Acta Derm Venereol Suppl (Stockh) 1989;146:218–20
Human chromosome 5 complements the DNA double–strand break–repair deficiency and gamma–ray sensitivity of the XR–1 hamster variant. Giaccia AJ, et al.
Am J Hum Genet 1990 Sep;47(3):459–69
A long–range restriction map of the human chromosome 19q13 region: close physical linkage between CKMM and the ERCC1 and ERCC2 genes. Smeets H, et al.
Am J Hum Genet 1990 Mar;46(3):492–501
Studies on DNA damage and induction of SOS repair by novel multifunctional bioreducible compounds. I. A metronidazole adduct of dirhodium (II) tetraacetate. Dale LD, et al. **Anticancer Drug Des** 1989 Dec;4(4):295–302
DNA interstrand crosslinking and strand break repair in human glioma cell lines of varying [1,3–bis(2–chloroethyl)–1–nitrosourea] resistance.
Ali–Osman F, et al. **Anticancer Res** 1990 May–Jun; 10(3):677–82
DNA damage/repair studies using a combination of monoclonal thymidine antibody and unscheduled DNA synthesis simultaneously. Soni N, et al. **Anticancer Res** 1989 Jul–Aug;9(4):909–14
Formation and repair of DNA lesions in kidneys of male mice after acute exposure to methyl chloride. Ristau C, et al. **Arch Toxicol** 1990;64(3):254–6
Microcell–mediated chromosome transfer: a strategy for studying the genetics and molecular pathology of human hereditary diseases with abnormal responses to DNA damage. Friedberg EC, et al. **Basic Life Sci** 1990;52:257–67 (36 ref.)
Proteolytic activation of UmuD and MucA proteins for SOS mutagenesis. Shiba T, et al. **Basic Life Sci** 1990;52:351–4
Phenotypic reversion of cisplatin resistance in human cells accompanies reduced host cell reactivation of damaged plasmid. Chao CC, et al.
Biochem Biophys Res Commun 1990 Jul 31;170(2):851–9
Discontinuous DNA replication in a lig–7 strain of Escherichia coli is not the result of mismatch repair, nucleotide–excision repair, or the base–excision repair of DNA uracil. Wang TC, et al.
Biochem Biophys Res Commun 1989 Dec 15;165(2):685–8
Delta–elimination in the repair of AP (apurinic/apyrimidinic) sites in DNA. Bailly V, et al. **Biochem J** 1989 Aug 1; 261(3):707–13
Kinetics and mechanism of DNA repair. Preparation, purification and some properties of caged dideoxynucleoside triphosphates. Meldrum RA, et al.
Biochem J 1990 Mar 15;266(3):885–90
Kinetics and mechanism of DNA repair. Evaluation of caged compounds for use in studies of u.v.–induced DNA repair. Meldrum RA, et al. **Biochem J** 1990 Mar 15;266(3):891–5
UV–induced pyrimidine hydrates in DNA are repaired by bacterial and mammalian DNA glycosylase activities. Boorstein RJ, et al. **Biochemistry** 1989 Jul 25;28(15):6164–70
Bleomycin–induced DNA repair synthesis in permeable human fibroblasts: mediation of long–patch and short–patch repair by distinct DNA polymerases. DiGiuseppe JA, et al. **Biochemistry** 1989 Nov 28;28(24):9515–20
Site–directed mutagenesis of the T4 endonuclease V gene: the role of arginine–3 in the target search. Dowd DR, et al. **Biochemistry** 1989 Oct 31;28(22):8699–705
Active site of Escherichia coli DNA photolyase: mutations

at Trp277 alter the selectivity of the enzyme without affecting the quantum yield of photorepair. Li YF, et al. **Biochemistry** 1990 Jun 19;29(24):5698–706

A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AF sites and thymine glycols from DNA. Lin JJ, et al. **Biochemistry** 1989 Oct 3; 28(20):7979–84

Degradation of DNA and structure–activity relationship between bleomycins A2 and B2 in the absence of DNA repair. Moore CW. **Biochemistry** 1990 Feb 6;29(5):1342–7

Substrate overlap and functional competition between human nucleotide excision repair and Escherichia coli photolyase and (a)BC excision nuclease. Sibghat–Ullah, et al. **Biochemistry** 1990 Jun 19;29(24):5711–8

Repair of pyrimidine dimer ultraviolet light photoproducts by human cell extracts. Wood RD. **Biochemistry** 1989 Oct 17;28(21):8287–92

Trichothiodystrophy and the relationship between DNA repair and cancer. Lehmann AR. **Bioessays** 1989 Dec; 11(6):168–70 (13 ref.)

The regulation of DNA repair during development. Mitchell DL, et al. **Bioessays** 1990 Feb;12(2):74–9 (29 ref.)

Inherited sensitivity to X–rays in man. Thacker J. **Bioessays** 1989 Aug–Sep;11(2–3):58–62 (47 ref.)

PLD–repair in human melanoma xenografts following single dose and fractionated irradiation. Rofstad EK. **Br J Cancer** 1990 Jun;61(6):856–60

Sublethal damage repair and radiosensitivity of human squamous cell carcinoma cells grown with different culture techniques. Schwachöfer JH, et al. **Br J Radiol** 1989 Dec; 62(744):1084–8

Cytotoxic and DNA–damaging effects of 1,2–bis(sulfonyl)hydrazines on human cells of the Mer+ and Mer– phenotype. Pratviel G, et al. **Cancer Biochem Biophys** 1989 Oct;10(4):365–75

Inhibition of a specific DNA repair system and nitrosourea cytotoxicity in resistant human cancer cells. Futscher BW, et al. **Cancer Commun** 1989;1(1):65–73

Comparison of O–6–methylguanine DNA methyltransferase (MGMT) mRNA levels in Mer+ and Mer– human tumor cell lines containing the MGMT gene by the polymerase chain reaction technique. Pieper RO, et al. **Cancer Commun** 1990;2(1):13–20

Overexpression of DNA replication and repair enzymes in cisplatin–resistant human colon carcinoma HCT8 cells and circumvention by azidothymidine. Scanlon KJ, et al. **Cancer Commun** 1989;1(4):269–75

Unscheduled DNA synthesis and HPRT mutation in fetal Syrian hamster and human respiratory epithelial cells exposed to ethylnitrosourea. Wen J, et al. **Cancer Lett** 1990 Apr 9;50(1):57–62

Defective postreplication repair in xeroderma pigmentosum variant fibroblasts. Boyer JC, et al. **Cancer Res** 1990 May 1;50(9):2593–8

Decreased accumulation as a mechanism of resistance to cis–diamminedichloroplatinum(II) in human non–small cell lung cancer cell lines: relation to DNA damage and repair. Bungo M, et al. **Cancer Res** 1990 May 1;50(9):2549–53

DNA double–strand break repair pathways and cellular tolerance to inhibitors of topoisomerase II. Caldecott K, et al. **Cancer Res** 1990 Sep 15;50(18):5778–83

Selectivity of rat and human glutathione S–transferases in activation of ethylene dibromide by glutathione conjugation and DNA binding and induction of unscheduled DNA synthesis in human hepatocytes. Cmarik JL, et al. **Cancer Res** 1990 May 1;50(9):2747–52

Flow cytometric analysis of DNA damage and repair in the cells resistant to alkylating agents. Frankfurt OS, et al. **Cancer Res** 1990 Aug 1;50(15):4453–7

Sensitivity of Chinese hamster ovary mutants defective in DNA double strand break repair to topoisomerase II inhibitors. Jeggo PA, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7057–63

Hypersensitivity to cell killing and faulty repair of 1–beta–D–arabinofuranosylcytosine–detectable sites in human (ataxia–telangiectasia) fibroblasts treated with 4–nitroquinoline 1–oxide. Mirzayans R, et al. **Cancer Res** 1989 Oct 15;49(20):5523–9

Differential effect of ionizing radiation on transcription in repair–deficient and repair–proficient mice. Munson GP, et al. **Cancer Res** 1990 Aug 15;50(16):5045–8

Mammalian O6–alkylguanine–DNA alkyltransferase: regulation and importance in response to alkylating carcinogenic and therapeutic agents. Pegg AE. **Cancer Res** 1990 Oct 1;50(19):6119–29 (174 ref.)

Oxidative stress induces DNA damage and inhibits the repair of DNA lesions induced by N–acetoxy–2–acetylaminofluorene in human peripheral mononuclear leukocytes. Pero RW, et al. **Cancer Res** 1990 Aug 1;50(15):4619–25

Effects of microinjected photoreactivating enzyme on thymine dimer removal and DNA repair synthesis in normal human and xeroderma pigmentosum fibroblasts. Roza L, et al. **Cancer Res** 1990 Mar 15;50(6):1905–10

Reduced O6–methylguanine repair in fibroblast cultures from patients with lung cancer. Rüdiger HW, et al. **Cancer Res** 1989 Oct 15;49(20):5623–6

Accumulation of O6–methylguanine in human blood leukocyte DNA during exposure to procarbazine and its relationships with dose and repair. Souliotis VL, et al. **Cancer Res** 1990 May 1;50(9):2759–64

Correlation between cell killing by cis–diamminedichloroplatinum(II) in six mammalian cell lines and binding of a cis–diamminedichloroplatinum(II)–DNA antiserum. Terheggen PM, et al. **Cancer Res** 1990 Jun 15; 50(12):3556–61

Expression of the poly(ADP–ribose) polymerase gene following natural and induced DNA strand breakage and effect of hyperexpression on DNA repair. Bhatia K, et al. **Carcinogenesis** 1990 Jan;11(1):123–8

N–ethyl–N–nitrosourea induces A:T to C:G transversion mutations as well as transition mutations in SOS–induced Escherichia coli. Eckert KA, et al. **Carcinogenesis** 1989 Dec;10(12):2261–7

Clustered repair of excisable 4–nitroquinoline–1–oxide adducts in a larger fraction of genomic DNA of xeroderma pigmentosum complementation group C cells. Fujiwara Y. **Carcinogenesis** 1989 Oct;10(10):1777–85

Mutagenicity of N2 guanylarylation is SOS functions dependent and reminiscent of the high mutagenic property of 4NQO. Galiègue–Zouitina S, et al. **Carcinogenesis** 1989 Oct;10(10):1961–6

Biochemical characteristics of endonuclease activity within the nucleotidyl DNA excision repair pathway of permeable human fibroblasts. Kaufmann WK, et al. **Carcinogenesis** 1990 Jan;11(1):15–9

Studies in gastric carcinogenesis. IV. O6–methylguanine and its repair in normal and atrophic biopsy specimens of human gastric mucosa. Correlation of O6–alkylguanine–DNA alkyltransferase activities in gastric mucosa and circulating lymphocytes. Kyrtopoulos SA, et al. **Carcinogenesis** 1990 Mar;11(3):431–6

Uncoupling of DNA excision repair and nucleosomal unfolding in poly(ADP–ribose)–depleted mammalian cells. Mathis G, et al. **Carcinogenesis** 1990 Jul;11(7):1237–9

Monoclonal antibody–based immunoassay for the determination of cellular enzymatic activity for repair of specific carcinogen–DNA adducts (O6–alkylguanine). Nehls P, et al. **Carcinogenesis** 1990 Jan;11(1):81–7

DNA adduct formation and unscheduled DNA synthesis in rat esophagus in vivo after treatment with N–methyl–N–nitrosourea. Qin XS, et al. **Carcinogenesis** 1990 Feb;11(2):235–8

Deficient G2 phase repair of radiation–induced chromatin damage in the SENCAR mouse. Sanford KK, et al. **Carcinogenesis** 1989 Oct;10(10):1911–6

Electroporation of normal human DNA endonucleases into xeroderma pigmentosum cells corrects their DNA repair defect. Tsongalis GJ, et al. **Carcinogenesis** 1990 Mar; 11(3):499–503

Nucleophilic selectivity of carcinogens as a determinant of enhanced mutational response in excision repair–defective strains in Drosophila: effects of 30 carcinogens. Vogel EW. **Carcinogenesis** 1989 Nov;10(11):2093–106

Effect of O6–methylguanine–DNA methyltransferase gene activity on repair in human cells transformed by a regulatable ada gene. Waldstein EA. **Carcinogenesis** 1990 Jan;11(1):21–6

A human DNA repair activity specific for O4–ethylthymine: identification and partial characterization. Wani AA, et al. **Carcinogenesis** 1990 Aug;11(8):1419–24

Reduction of nitromin to nitrogen mustard: unscheduled DNA synthesis in aerobic or anaerobic rat hepatocytes, JB1, BL8 and Walker carcinoma cell lines. White IN, et al. **Carcinogenesis** 1989 Nov;10(11):2113–8

A novel pathway of DNA end–to–end joining. Thode S, et al. **Cell** 1990 Mar 23;60(6):921–8

A presumed DNA helicase encoded by ERCC–3 is involved in the human repair disorders xeroderma pigmentosum and Cockayne's syndrome. Weeda G, et al. **Cell** 1990 Aug 24; 62(4):777–91

DNA single–strand breaks, double–strand breaks, and crosslinks in rat testicular germ cells: measurements of their formation and repair by alkaline and neutral filter elution. Bradley MO, et al. **Cell Biol Toxicol** 1985 Jun;1(3):181–95

Use of differential DNA–repair host mediated assays to investigate the biotransformation of xenobiotics in Drosophila melanogaster. I. Genotoxic effects of nitrosamines. Knasmuller S, et al. **Chem Biol Interact** 1990; 75(1):17–29

Use of host cell reactivation of cisplatin–treated adenovirus 5 in human cell lines to detect repair of drug–treated DNA. Maynard KR, et al. **Chem Biol Interact** 1989;71(4):353–65

The UV excision–repair system of Saccharomyces cerevisiae is involved in the removal of methylcytosines formed in vivo by a cloned prokaryotic DNA methyltransferase. Fehér Z, et al. **Curr Genet** 1989 Dec;16(5–6):461–4

Nitrosoguanidine–induced adaptive repair in Pseudomonas aeruginosa. Rasool SA, et al. **Curr Genet** 1990 May; 17(5):417–9

Interactions of the RAD7 and RAD23 excision repair genes of Saccharomyces cerevisiae with DNA repair genes in different epistasis groups. Schiestl RH, et al. **Curr Genet** 1989 Oct;16(4):219–23

Some of the swi genes of Schizosaccharomyces pombe also have a function in the repair of radiation damage. Schmidt H, et al. **Curr Genet** 1989 Aug;16(2):89–94

Formation and stability of interstrand cross–links induced by cis– and trans–diamminedichloroplatinum (II) in the DNA of Saccharomyces cerevisiae strains differing in repair capacity. Wilborn F, et al. **Curr Genet** 1989 Dec; 16(5–6):331–8

DNA repair and recombination. Lindahl T, et al. **Curr Opin Cell Biol** 1989 Jun;1(3):475–80 (27 ref.)

The extreme mutator effect of Escherichia coli mutD5 results from saturation of mismatch repair by excessive DNA replication errors. Schaaper RM, et al. **EMBO J** 1989 Nov; 8(11):3511–6

Differential repair of UV damage in Saccharomyces cerevisiae is cell cycle dependent. Terleth C, et al. **EMBO J** 1990 Sep;9(9):2899–904

Mutational specificity of alkylating agents and the influence of DNA repair. Horsfall MJ, et al. **Environ Mol Mutagen** 1990;15(2):107–22 (199 ref.)

Somatic cell genetics approach to dissecting mammalian DNA repair. Thompson LH. **Environ Mol Mutagen** 1989; 14(4):264–81 (149 ref.)

Repair of H2O2–induced DNA damage in bovine lens epithelial cell cultures. Spector A, et al. **Exp Eye Res** 1989 Oct;49(4):685–98

Isolation by polymerase chain reaction of a cDNA whose product partially complements the ultraviolet sensitivity of xeroderma pigmentosum group C cells. Teitz T, et al. **Gene** 1990 Mar 15;87(2):295–8

Yeast intrachromosomal recombination: long gene conversion tracts are preferentially associated with reciprocal exchange and require the RAD1 and RAD3 gene products. Aguilera A, et al. **Genetics** 1989 Dec; 123(4):683–94

Mismatch repair–induced meiotic recombination requires the pms1 gene product. Borts RH, et al. **Genetics** 1990 Mar; 124(3):573–84

Duplication mutation as an SOS response in Escherichia coli: enhanced duplication formation by a constitutively activated RecA. Dimpfl J, et al. **Genetics** 1989 Oct; 123(2):255–60

Cloning of the DNA repair gene, uvsF, by transformation of Aspergillus nidulans. Oza K, et al. **Genetics** 1990 Jun; 125(2):341–9

The SRS2 suppressor of rad6 mutations of Saccharomyces cerevisiae acts by channeling DNA lesions into the RAD52 DNA repair pathway. Schiestl RH, et al. **Genetics** 1990 Apr;124(4):817–31

The genetic control of direct–repeat recombination in Saccharomyces: the effect of rad52 and rad1 on mitotic recombination at GAL10, a transcriptionally regulated gene. Thomas BJ, et al. **Genetics** 1989 Dec;123(4):725–38

Repair of base–base mismatches in simian and human cells. Brown TC, et al. **Genome** 1989;31(2):578–83

Mutational specificity and the influence of excision repair: insights into the mechanisms of error–avoidance and error–fixation. Glickman BW. **Genome** 1989;31(2):584–9

Preferential repair of damage in actively transcribed DNA sequences in vivo. Hanawalt PC. **Genome** 1989;31(2):605–11 (27 ref.)

Phenotypic expression of primary lesions of genetic material in Saccharomyces yeasts. Inge–Vechtomov SG, et al. **Genome** 1989;31(2):497–502

The structure and function of RAD6 and RAD18 DNA repair genes of Saccharomyces cerevisiae. Prakash L. **Genome** 1989;31(2):597–600 (33 ref.)

DNA repair replication by soluble extracts from human lymphoid cell lines. Wood RD, et al. **Genome** 1989; 31(2):601–4

Complementation of repair gene mutations on the hemizygous chromosome 9 in CHO: a third repair gene on human chromosome 19. Thompson LH, et al. **Genomics** 1989 Nov;5(4):670–9

Production and repair of DNA damage in mammalian cells. Leadon SA. **Health Phys** 1990 Jul;59(1):15–22 (51 ref.)

Analyzing the role of biochemical processes in determining response to ionizing radiations. Nelson JM, et al. **Health Phys** 1989;57 Suppl 1:369–76

Clinical and biochemical studies in three patients with severe early infantile Cockayne syndrome. Jaeken J, et al. **Hum Genet** 1989 Nov;83(4):339–46

Abstracts of the joint meeting of the Association for Radiation Research and the DNA Repair Network. St Andrews, UK, 3–5 January 1990. **Int J Radiat Biol** 1990 Jun;57(6):1247–73

DNA base and strand damage in X–irradiated monkey CV–1 cells: influence of pretreatment using small doses of radiation. Bases R, et al. **Int J Radiat Biol** 1990 Jul; 58(1):35–54

Comparison between X–rays and SR 4233 for cytotoxicity and repair of potentially lethal damage in human cells. Biedermann KA, et al. **Int J Radiat Biol** 1989 Nov; 56(5):813–6

Lambda–prophage induction in repair–deficient and wild type E. coli strains by gamma–rays and heavy ions. Bonev MN, et al. **Int J Radiat Biol** 1990 May;57(5):993–1005

Radiosensitivity and repair capacity of two xenografted human soft tissue sarcomas to photons and fast neutrons. Budach V, et al. **Int J Radiat Biol** 1989 Nov;56(5):593–6

Nuclear lysate sedimentation measurements of peripheral blood lymphocytes from radiotherapy patients. Deeley JO, et al. **Int J Radiat Biol** 1989 Dec;56(6):963–73

Induction and repair of DNA strand breaks in X–irradiated proliferating and quiescent CHO cells. Dikomey E. **Int J Radiat Biol** 1990 Jun;57(6):1169–82

A comparative study of rejoining of DNA double–strand breaks in yeast irradiated with 3.5 MeV alpha–particles or with 30 MeV electrons. Frankenberg–Schwager M, et al. **Int J Radiat Biol** 1990 Jun;57(6):1151–68

Radiosensitivity and PLDR in primary cultures of human

normal and malignant mammary and prostate cells. Gould MN, et al. **Int J Radiat Biol** 1989 Nov;56(5):561–5
Radiosensitivity throughout the cell cycle and repair of potentially lethal damage and DNA double-strand breaks in an X-ray-sensitive CHO mutant. Iliakis GE, et al. **Int J Radiat Biol** 1990 Jun;57(6):1195–211
The influence of experimental design and data analysis on the determination of recovery kinetics of radiation damage between acute dose-rate treatments in vivo. Joiner MC, et al. **Int J Radiat Biol** 1990 Jan;57(1):143–62
The relationship between potentially lethal damage repair and intrinsic radiosensitivity of human cells. Malaise EP, et al. **Int J Radiat Biol** 1989 Nov;56(5):597–604
Induction and rejoining of chromatid breaks in X-irradiated A-T and normal human G2 fibroblasts. Mozdarani H, et al. **Int J Radiat Biol** 1989 Nov;56(5):645–50
A generalized formulation of the 'incomplete-repair' model for cell survival and tissue response to fractionated low dose-rate irradiation. Nilsson P, et al. **Int J Radiat Biol** 1990 Jan;57(1):127–42
Prediction of cell survival curves from DNA double-strand break repair data for low- and high-LET radiation. Ostashevsky JY. **Int J Radiat Biol** 1990 Mar;57(3):523–36
Initial damage or repair as the major determinant of cellular radiosensitivity? Peacock JH, et al. **Int J Radiat Biol** 1989 Nov;56(5):543–7
Lethal mutations, the survival curve shoulder and split-dose recovery. Seymour CB, et al. **Int J Radiat Biol** 1989 Dec; 56(6):999–1010
Do in vitro studies of potential lethal damage repair predict for in situ results? Siemann DW. **Int J Radiat Biol** 1989 Nov;56(5):567–71
Use of damaged plasmid to study DNA repair in X-ray sensitive (xrs) strains of Chinese hamster ovary (CHO) cells. Smith-Ravin J, et al. **Int J Radiat Biol** 1989 Dec; 56(6):951–61
Studies of DNA damage and repair of thermal- and radiation-induced lesions in human cells. Vilenchik MM. **Int J Radiat Biol** 1989 Nov;56(5):685–9
Cell cycle responses of two X-ray sensitive mutants defective in DNA repair. Whitmore GF, et al. **Int J Radiat Biol** 1989 Nov;56(5):657–65
Radiation studies on sensitivity and repair of human mammary epithelial cells. Yang TC, et al. **Int J Radiat Biol** 1989 Nov;56(5):605–9
The "recall effect" in radiotherapy: is subeffective, reparable damage involved? Kitani H, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):689–95
DNA repair mechanisms and their biologic implications in mammalian cells. Report of a NATO advanced research workshop, Fontevraud, France, Oct. 2–7, 1988. Lambert WC, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):299–308
SOS-dependent replication past a single trans-syn T-T cyclobutane dimer gives a different mutation spectrum and increased error rate compared with replication past this lesion in uninduced cells. Banerjee SK, et al. **J Bacteriol** 1990 Apr;172(4):2105–12
Characterization of an inducible oxidative stress system in Bacillus subtilis. Bol DK, et al. **J Bacteriol** 1990 Jun; 172(6):3503–6
Escherichia coli strains with multiple DNA repair defects are hyperinduced for the SOS response. Foster PL. **J Bacteriol** 1990 Aug;172(8):4719–20
Overproduction, purification, and ATPase activity of the Escherichia coli RuvB protein involved in DNA repair. Iwasaki H, et al. **J Bacteriol** 1989 Oct;171(10):5276–80
recB recC-dependent processing of heteroduplex DNA stimulates recombination of an adjacent gene in Escherichia coli. Kraczkiewicz-Dowjat A, et al. **J Bacteriol** 1990 Jan; 172(1):172–8
Cloning and nucleotide sequence of DNA mismatch repair gene PMS1 from Saccharomyces cerevisiae: homology of PMS1 to procaryotic MutL and HexB. Kramer W, et al. **J Bacteriol** 1989 Oct;171(10):5339–46
Specificity of the mutator effect caused by disruption of the RAD1 excision repair gene of Saccharomyces cerevisiae. Kunz BA, et al. **J Bacteriol** 1990 Jun;172(6):3009–14
Methyl-directed repair of frameshift heteroduplexes in cell extracts from Escherichia coli. Learn BA, et al. **J Bacteriol** 1989 Dec;171(12):6473–81
Specific A/G-to-C.G mismatch repair in Salmonella typhimurium LT2 requires the mutB gene product. Lu AL, et al. **J Bacteriol** 1990 Mar;172(3):1232–40
Nucleotide sequence of the Salmonella typhimurium mutL gene required for mismatch repair: homology of MutL to HexB of Streptococcus pneumoniae and to PMS1 of the yeast Saccharomyces cerevisiae. Mankovich JA, et al. **J Bacteriol** 1989 Oct;171(10):5325–31
Nucleotide sequence of the Streptococcus pneumoniae hexB mismatch repair gene: homology of HexB to MutL of Salmonella typhimurium and to PMS1 of Saccharomyces cerevisiae. Prudhomme M, et al. **J Bacteriol** 1989 Oct; 171(10):5332–8
Signal strains that can detect certain DNA replication and membrane mutants of Escherichia coli: isolation of a new ssb allele, ssb-3. Schmellik-Sandage CS, et al. **J Bacteriol** 1990 Aug;172(8):4378–85
A gene required for very short patch repair in Escherichia coli is adjacent to the DNA cytosine methylase gene. Sohail A, et al. **J Bacteriol** 1990 Aug;172(8):4214–21
RecA protein of Escherichia coli has a third essential role in SOS mutator activity. Sweasy JB, et al. **J Bacteriol** 1990 Jun;172(6):3030–6
SOS repair can be about as effective for single-stranded DNA as for double-stranded DNA and even more so. Tessman I. **J Bacteriol** 1990 Sep;172(9):5503–5
Cloning of Salmonella typhimurium DNA encoding mutagenic DNA repair. Thomas SM, et al. **J Bacteriol** 1989 Nov;171(11):5776–82
A mollicute (mycoplasma) DNA repair enzyme: purification and characterization of uracil-DNA glycosylase. Williams MV, et al. **J Bacteriol** 1990 Jun;172(6):2979–85
Biological significance of facilitated diffusion in protein-DNA interactions. Applications to T4 endonuclease V-initiated DNA repair. Dowd DR, et al. **J Biol Chem** 1990 Feb 25;265(6):3424–31
Localization of DNA repair synthesis by human cell extracts to a short region at the site of a lesion [published erratum appears in J Biol Chem 1990 Mar 5;265(7):4172] Hansson J, et al. **J Biol Chem** 1989 Dec 25;264(36):21788–92
Preferential DNA repair of alkali-labile sites within the active insulin gene. LeDoux SP, et al. **J Biol Chem** 1990 Sep 5;265(25):14875–80
Identification and preliminary characterization of an O6-methylguanine DNA repair methyltransferase in the yeast Saccharomyces cerevisiae. Sassanfar M, et al. **J Biol Chem** 1990 Jan 5;265(1):20–5
The role of Escherichia coli UvrB in nucleotide excision repair. Seeley TW, et al. **J Biol Chem** 1990 May 5; 265(13):7158–65
Preferential DNA repair of (6–4) photoproducts in the dihydrofolate reductase gene of Chinese hamster ovary cells. Thomas DC, et al. **J Biol Chem** 1989 Oct 25; 264(30):18005–10
Heterogeneity of nitrogen mustard-induced DNA damage and repair at the level of the gene in Chinese hamster ovary cells. Wassermann K, et al. **J Biol Chem** 1990 Aug 15; 265(23):13906–13
DNA repair systems in early and persistent hepatocyte nodules in the rat. Citti L, et al. **J Cancer Res Clin Oncol** 1990;116(2):156–8
Differential repair and replication of damaged DNA in ribosomal RNA genes in different CHO cell lines. Wauthier EL, et al. **J Cell Biochem** 1990 Jun;43(2):173–83
DNA repair and transcriptional activity in genes [editorial] Bohr VA. **J Cell Sci** 1988 Oct;91 (Pt 2):175–8 (22 ref.)
Involvement of DNA repair in cancer and aging. Warner HR, et al. **J Gerontol** 1989 Nov;44(6):45–54 (130 ref.)
Repair of 254 nm ultraviolet-induced (6–4) photoproducts: monoclonal antibody recognition and differential defects in xeroderma pigmentosum complementation groups A, D, and variant. Hiramoto T, et al. **J Invest Dermatol** 1989 Nov;93(5):703–6
Repair of pyrimidine(6–4)pyrimidone photoproducts in mouse skin. Mitchell DL, et al. **J Invest Dermatol** 1990 Jul;95(1):55–9
Biological consequences of a reduction in the non-target DNA scanning capacity of a DNA repair enzyme. Dowd DR, et al. **J Mol Biol** 1989 Aug 20;208(4):701–7
Superfamily of UvrA-related NTP-binding proteins. Implications for rational classification of recombination/repair systems. Gorbalenya AE, et al. **J Mol Biol** 1990 Jun 20;213(4):583–91
Expression and cloning of complementary DNA for a human enzyme that repairs O6-methylguanine in DNA. Hayakawa H, et al. **J Mol Biol** 1990 Jun 20;213(4):739–47
Zinc-binding domain of poly(ADP-ribose)polymerase participates in the recognition of single strand breaks on DNA. Ménissier-de Murcia J, et al. **J Mol Biol** 1989 Nov 5;210(1):229–33
Mutational hotspot variability in an ultraviolet-treated shuttle vector plasmid propagated in xeroderma pigmentosum and normal human lymphoblasts and fibroblasts. Seetharam S, et al. **J Mol Biol** 1990 Apr 5;212(3):433–6 (19 ref.)
Genetic effects and repair of DNA photo-adducts induced by 8-methoxypsoralen and homopsoralen (pyranocoumarin) in diploid yeast. Averbeck D, et al. **J Photochem Photobiol B** 1990 Apr 15;5(2):179–95
Nucleic acids, DNA repair, photomutagenesis. Piette J. **J Photochem Photobiol B** 1990 Apr 15;5(2):275–6
DNA excision-repair ability of embryonic fibroblasts measured by UDS and thymine dimer excorporation in four inbred mice strains. Wegner A, et al. **J Photochem Photobiol B** 1989 Oct;4(1):75–84
A simple kinetic model for the repair of radiation-induced DNA double-strand breaks [letter] Hsu JP, et al. **J Theor Biol** 1989 Feb 8;136(3):357–9
Postreplication repair of DNA in mammalian cells. Lehmann AR. **Life Sci** 1974 Dec 15;15(12):2005–16 (68 ref.)
Repair of DNA in mammalian cells. Strauss BS. **Life Sci** 1974 Nov 15;15(10):1685–93 (40 ref.)
Relationship between life expectancy and endogenous DNA single-strand breakage, strand break induction and DNA repair capacity in the adult housefly, Musca domestica. Newton RK, et al. **Mech Ageing Dev** 1989 Sep;49(3):259–70 (22 ref.)
Expression of the SOS genes of Escherichia coli in Salmonella typhimurium. Barbé J, et al. **Microbiologia** 1985 Sep;1(1–2):77–87
Gene conversion in Streptococcus pneumoniae. Sicard AM. **Microbiologia** 1987 Feb;3(1):5–12 (57 ref.)
A human endonuclease incises ultraviolet-irradiated DNA at cytosines and oxidized DNA at thymines. Gallagher PE, et al. **Mol Carcinog** 1989;2(4):188–91
Effect of nucleotide excision repair in human cells on intrachromosomal homologous recombination induced by UV and 1-nitrosopyrene. Bhattacharyya NP, et al. **Mol Cell Biol** 1990 Aug;10(8):3945–51
Failure to induce a DNA repair gene, RAD54, in Saccharomyces cerevisiae does not affect DNA repair or recombination phenotypes. Cole GM, et al. **Mol Cell Biol** 1989 Aug;9(8):3314–22
Rapid and apparently error-prone excision repair of nonreplicating UV-irradiated plasmids in Xenopus laevis oocytes. Hays JB, et al. **Mol Cell Biol** 1990 Jul; 10(7):3505–11
A constitutive damage-specific DNA-binding protein is synthesized at higher levels in UV-irradiated primate cells. Hirschfeld S, et al. **Mol Cell Biol** 1990 May;10(5):2041–8
Repair of double-stranded DNA breaks by homologous DNA fragments during transfer of DNA into mouse L cells. Lin FL, et al. **Mol Cell Biol** 1990 Jan;10(1):113–9
The Saccharomyces cerevisiae DNA repair gene RAD2 is regulated in meiosis but not during the mitotic cell cycle. Madura K, et al. **Mol Cell Biol** 1990 Jun;10(6):3256–7
Evidence that xeroderma pigmentosum cells from complementation group E are deficient in a homolog of yeast photolyase. Patterson M, et al. **Mol Cell Biol** 1989 Nov;9(11):5105–12
Mutations in RAD6, a yeast gene encoding a ubiquitin-conjugating enzyme, stimulate retrotransposition. Picologlou S, et al. **Mol Cell Biol** 1990 Mar;10(3):1017–22
Interactions between yeast photolyase and nucleotide excision repair proteins in Saccharomyces cerevisiae and Escherichia coli. Sancar GB, et al. **Mol Cell Biol** 1989 Nov; 9(11):4767–76
RAD10, an excision repair gene of Saccharomyces cerevisiae, is involved in the RAD1 pathway of mitotic recombination. Schiestl RH, et al. **Mol Cell Biol** 1990 Jun;10(6):2485–91
Cloning and analysis of a gene involved in DNA repair and recombination, the rad1 gene of Schizosaccharomyces pombe. Sunnerhagen P, et al. **Mol Cell Biol** 1990 Jul; 10(7):3750–60
Differential repair of UV damage in rad mutants of Saccharomyces cerevisiae: a possible function of G2 arrest upon UV irradiation. Terleth C, et al. **Mol Cell Biol** 1990 Sep;10(9):4678–84
Transformation of mouse BALB 3T3 cells by enterobacterial plasmid misrepair gene mucAB. Tosu M, et al. **Mol Cell Biol** 1990 Oct;10(10):5359–64
Molecular cloning and biological characterization of the human excision repair gene ERCC-3. Weeda G, et al. **Mol Cell Biol** 1990 Jun;10(6):2570–81
The PSO3 gene is involved in error-prone intragenic recombinational DNA repair in Saccharomyces cerevisiae. de Andrade HH, et al. **Mol Gen Genet** 1989 Oct; 219(1–2):75–80
Repair of alkylation damage in Saccharomyces cerevisiae. Goth-Goldstein R, et al. **Mol Gen Genet** 1990 May; 221(3):353–7
Involvement in DNA repair of the ruvA gene of Escherichia coli. Iwasaki H, et al. **Mol Gen Genet** 1989 Oct; 219(1–2):328–31
A high level of hybrid dysgenesis in Drosophila: high thermosensitivity, dependence on DNA repair, and incomplete cytotype regulation. Margulies L. **Mol Gen Genet** 1990 Feb;220(3):448–55
A.T——C.G transversions and their prevention by the Escherichia coli mutT and mutHLS pathways. Schaaper RM, et al. **Mol Gen Genet** 1989 Oct;219(1–2):256–62
Molecular and functional analysis of the ruv region of Escherichia coli K-12 reveals three genes involved in DNA repair and recombination. Sharples GJ, et al. **Mol Gen Genet** 1990 Apr;221(2):219–26
Apurinic endonuclease activity from wild-type and repair-deficient mei-9 Drosophila ovaries. Venugopal S, et al. **Mol Gen Genet** 1990 May;221(3):421–6
Serratia marcescens rpr gene sensitizes Escherichia coli wild-type, xth, and nfo strains to methyl methanesulphonate. Murphy KE, et al. **Mol Microbiol** 1990 Apr;4(4):651–5
Abstracts of papers presented at the joint meeting of the United Kingdom Environmental Mutagen Society and the DNA Repair Network. Sussex, April 3–7, 1989. **Mutagenesis** 1990 Jan;5(1):67–103
Mutagenic DNA repair in Escherichia coli. XVIII. Involvement of DNA polymerase III alpha-subunit (DnaE protein) in mutagenesis after exposure to UV light. Bridges BA, et al. **Mutagenesis** 1990 Jan;5(1):35–8
Summary of complementation groups of UV-sensitive CHO cell mutants isolated by large-scale screening. Busch D, et al. **Mutagenesis** 1989 Sep;4(5):349–54
Clonally derived cell lines with altered DNA methylation as models for error correction and mutation in tumours. Diver WP, et al. **Mutagenesis** 1989 Nov;4(6):462–6
Repair kinetics in CHO cells of X-ray induced DNA damage and chromatid aberrations during a cell cycle extended by transient hypothermia. MacLeod RA, et al. **Mutagenesis** 1990 May;5(3):279–83
Mutagenic DNA repair in Escherichia coli. XVII. Effect of temperature-sensitive DnaE proteins on the induction of streptomycin-resistant mutations by UV light. Sharif F, et al. **Mutagenesis** 1990 Jan;5(1):31–4
DNA repair. **Mutat Res** 1990 Jul;236(1):1–143
The enzymology of DNA repair. **Mutat Res** 1990 Sep-Nov;

236(2–3):145–314

Inhibition of repair of O6-methyldeoxyguanosine and enhanced mutagenesis in rat-liver epithelial cells. Alvi NK, et al. **Mutat Res** 1990 Jun;230(2):219–26

Intrachromosomal homologous recombination in human cells which differ in nucleotide excision-repair capacity. Bhattacharyya NP, et al. **Mutat Res** 1990 Feb;234(1):31–41

Assessment by Southern blot analysis of UV-induced damage and repair in human immunoglobulin genes. Bianchi MS, et al. **Mutat Res** 1990 Sep;232(1):89–97

The role of excision repair in the removal of transient benzo[a]pyrene-induced DNA lesions in Chinese hamster ovary cells. Blakey DH, et al. **Mutat Res** 1990 Jul; 236(1):35–41

The recB gene product is essential for exonuclease V-dependent DNA degradation in vivo. Brčić-Kostić K, et al. **Mutat Res** 1989 Dec;227(4):247–50

Relationship between pyrimidine dimers, 6–4 photoproducts, repair synthesis and cell survival: studies using cells from patients with trichothiodystrophy. Broughton BC, et al. **Mutat Res** 1990 Jan;235(1):33–40

G/U lesions are efficiently corrected to G/C in SV40 DNA. Brown TC, et al. **Mutat Res** 1989 Dec;227(4):233–6

Two proteins of 220 kD and 230 kD bind to UV-damaged SV40 minichromosomes in irradiated monkey kidney cells. Brown-Luedi ML, et al. **Mutat Res** 1989 Dec; 227(4):227–31

Recent advances in DNA repair. A report of the 1989 meeting of the British Photobiology Society in association with the DNA-Repair Network. Collins A, et al. **Mutat Res** 1990 Jul;236(1):139–43 (0 ref.)

Neutral filter elution detects only limited inhibition of double-strand break repair by 9-beta-D-arabinofuranosyladenine. Costa ND, et al. **Mutat Res** 1990 May;235(3):217–23

The enzymology of apurinic/apyrimidinic endonucleases. Doetsch PW, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):173–201 (194 ref.)

Adaptive response to 2 low doses of X-rays in human blood lymphocytes. Fan S, et al. **Mutat Res** 1990 Jan;243(1):53–6

Evidence for AP site formation related to DNA-oxygen alkylation in CHO cells treated with ethylating agents. Fortini P, et al. **Mutat Res** 1990 Jul;236(1):129–37

Evidence to support the existence of efficient DNA double-strand break rejoining in a radiosensitive mutant of V79-4 following irradiation with 250 kVp X-rays or neutrons. Fox JC. **Mutat Res** 1990 Mar;235(2):41–7

Influence of RNA synthesis on DNA-repair replication in human cell extracts. Frosina G, et al. **Mutat Res** 1990 Aug; 244(4):287–93

Differential cell cycle modulation of human DNA glycosylases against oxidized pyrimidines. Ganguly T, et al. **Mutat Res** 1990 Mar;235(2):137–46

Increased sensitivity to killing by restriction enzymes in the XR-1 DNA double-strand break repair-deficient mutant. Giaccia AJ, et al. **Mutat Res** 1990 Jul;236(1):67–76

Mechanisms of DNA-mismatch correction. Grilley M, et al. **Mutat Res** 1990 Sep–Nov;236(2–3):253–67 (104 ref.)

Repair of ozone-induced DNA lesions in Escherichia coli B cells. Hamelin C, et al. **Mutat Res** 1989 Oct;214(2):253–5

Repair of single nucleotide DNA mismatches transfected into mammalian cells can occur by short-patch excision. Heywood LA, et al. **Mutat Res** 1990 Jul;236(1):59–66

Quantification of unscheduled DNA synthesis by a whole cell counting method. Hill LE, et al. **Mutat Res** 1989 Dec; 224(4):447–51

Use of in vivo and in vitro assays for the characterization of mammalian excision repair and isolation of repair proteins. Hoeijmakers JH, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):223–38 (55 ref.)

Selective repair of specific chromatin domains in UV-irradiated cells from xeroderma pigmentosum complementation group C. Kantor GJ, et al. **Mutat Res** 1990 May;235(3):171–80

Modification of deoxyribose-phosphate residues by extracts of ataxia telangiectasia cells. Karam LR, et al. **Mutat Res** 1990 Jul;236(1):19–26

A constitutive O6-methylguanine-DNA methyltransferase of Rhizobium meliloti. Kaufman A, et al. **Mutat Res** 1990 May;235(3):165–9

DNA repair endonuclease activity during synchronous growth of diploid human fibroblasts. Kaufmann WK, et al. **Mutat Res** 1990 Jul;236(1):107–17

A critical review of permeabilized cell systems for studying mammalian DNA repair. Keeney S, et al. **Mutat Res** 1990 Sep–Nov;236(2–3):239–52 (77 ref.)

Differential poly(ADP-ribose) metabolism in repair-proficient and repair-deficient murine lymphoma cells. Kleczkowska HE, et al. **Mutat Res** 1990 Mar; 235(2):93–9

UvrABC nuclease complex repairs thymine glycol, an oxidative DNA base damage. Kow YW, et al. **Mutat Res** 1990 Mar;235(2):147–56

Investigation of the SOS response of Escherichia coli after gamma-irradiation by means of the SOS chromotest. Kozubek S, et al. **Mutat Res** 1990 May;230(1):1–7

The sir locus of Escherichia coli: a gene involved in SOS-independent repair of mitomycin C-induced DNA damage. Kumaresan KR, et al. **Mutat Res** 1990 Mar; 235(2):85–92

Removal of 2',3'-dideoxynucleotide residues from injected DNA in Xenopus laevis oocytes. Legerski RJ, et al. **Mutat Res** 1990 Jul;236(1):1–7

Cell-cycle defect of DNA repair in progeria skin fibroblasts. Lipman JM, et al. **Mutat Res** 1989 Sep–Nov; 219(5–6):273–81

Mutagenesis by the anti-tumour drug nitracrine in Escherichia coli. MacPhee DG, et al. **Mutat Res** 1989 Dec; 227(4):251–5

Genetic control of the UV-induced SOS mutator effect in single- and double-stranded DNA phages. Maenhaut-Michel G, et al. **Mutat Res** 1990 Jun; 230(2):241–54

The repair of UV-irradiated plasmids transfected into cultured fish cells. Mitani H, et al. **Mutat Res** 1990 Jul; 236(1):77–84

In situ (6–4)photoproduct determination by laser cytometry and autoradiography. Mori T, et al. **Mutat Res** 1990 Jul; 236(1):99–105

Enhanced mutability at the tk locus in the radiosensitive double-strand break repair mutant xrs5. Mussa TA, et al. **Mutat Res** 1990 Aug;231(2):187–93

X-ray sensitivity and single-strand DNA break repair in mutagen-sensitive mutants of Drosophila melanogaster. Oliveri DR, et al. **Mutat Res** 1990 Jan;235(1):25–31

The LexA protein does not bind specifically to the two SOS box-like sequences immediately 5' to the phr gene. Payne NS, et al. **Mutat Res** 1989 Nov;218(3):207–10

Detection of ionizing radiations with the SOS Chromotest, a bacterial short-term test for genotoxic agents. Quillardet P, et al. **Mutat Res** 1989 Oct;216(5):251–7

Role of the viral and cellular encoded thymidine kinase in the repair of UV-irradiated herpes simplex virus. Rainbow AJ. **Mutat Res** 1989 Dec;227(4):263–7

Cyclobutane-pyrimidine dimer excision in UV-sensitive CHO mutants and the effect of the human ERCC2 repair gene. Regan JD, et al. **Mutat Res** 1990 May;235(3):157–63

Genotoxic effects of radiotherapy and chemotherapy on the circulating lymphocytes of breast cancer patients. II. Alteration of DNA repair and chromosome radiosensitivity. Rigaud O, et al. **Mutat Res** 1990 Sep; 242(1):25–35

Structures and functions of DNA glycosylases. Sakumi K, et al. **Mutat Res** 1990 Sep–Nov;236(2–3):161–72 (100 ref.)

DNA photolyases: physical properties, action mechanism, and roles in dark repair. Sancar GB. **Mutat Res** 1990 Sep–Nov;236(2–3):147–60 (89 ref.)

Structure and function of the (A)BC excinuclease of Escherichia coli. Selby CP, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):203–11 (60 ref.)

Induction of error-free DNA repair in Escherichia coli by thiamine deprivation. Sharma N, et al. **Mutat Res** 1990 Feb; 243(2):165–71

Excision-repair capacity in Streptococcus pneumoniae: cloning and expression of a uvr-like gene. Sicard N, et al. **Mutat Res** 1990 May;235(3):195–201

Participation of rec genes of Escherichia coli K 12 in W-reactivation of UV-irradiated phage lambda. Simić D, et al. **Mutat Res** 1990 Feb;243(2):159–64

Effects of vanillin and o-vanillin on induction of DNA-repair networks: modulation of mutagenesis in Escherichia coli. Takahashi K, et al. **Mutat Res** 1990 Jun;230(2):127–34

DNA-break repair, radioresistance of DNA synthesis, and camptothecin sensitivity in the radiation-sensitive irs mutants: comparisons to ataxia-telangiectasia cells. Thacker J, et al. **Mutat Res** 1990 Mar;235(2):49–58

The induction and repair of DNA damage detected by the DNA precipitation assay in Chinese hamster ovary cells treated with acridine orange + visible light. Uggla AH, et al. **Mutat Res** 1990 Jul;236(1):119–27

A comparative study of mutagenic and SOS-inducing activity of biphenyls, phenanthrenequinones and fluorenones. Vasilieva S, et al. **Mutat Res** 1990 Aug; 244(4):321–9

Epoxides: comparison of the induction of SOS repair in Escherichia coli PQ37 and the bacterial mutagenicity in the Ames test. von der Hude W, et al. **Mutat Res** 1990 Aug;231(2):205–18

Structure-activity relationships in the rat hepatocyte DNA-repair test for 300 chemicals. Williams GM, et al. **Mutat Res** 1989 Nov;221(3):263–86 (114 ref.)

DNA breaks and repair in the mouse leukemia L1210 cells exposed to three different types of interstrand DNA cross-linkers. Yajima N, et al. **Mutat Res** 1990 Jul; 236(1):43–50

Induction of the Escherichia coli lactose operon selectively increases repair of its transcribed DNA strand. Mellon I, et al. **Nature** 1989 Nov 2;342(6245):95–8

The barrier to recombination between Escherichia coli and Salmonella typhimurium is disrupted in mismatch-repair mutants. Rayssiguier C, et al. **Nature** 1989 Nov 23; 342(6248):396–401

RADH, a gene of Saccharomyces cerevisiae encoding a putative DNA helicase involved in DNA repair. Characteristics of radH mutants and sequence of the gene. Aboussekhra A, et al. **Nucleic Acids Res** 1989 Sep 25; 17(18):7211–9

Superhelical stress restrained in plasmid DNA during repair synthesis initiated by the UvrA, B and C proteins in vitro. Backendorf C, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10337–51

Fine-mapping of DNA damage and repair in specific genomic segments. Govan HL 3d, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3823–30

Repair synthesis by human cell extracts in DNA damaged by cis- and trans-diamminedichloroplatinum(II). Hansson J, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8073–91

Complementation of the xeroderma pigmentosum DNA repair synthesis defect with Escherichia coli UvrABC proteins in a cell-free system. Hansson J, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):35–40

Regulated expression of the Saccharomyces cerevisiae DNA repair gene RAD7 in response to DNA damage and during sporulation. Jones JS, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3281–5

Nucleotide sequence of the psiA (plasmid SOS inhibition) gene located on the leading region of plasmids F and R6-5. Loh S, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4597

Transcript levels of the Saccharomyces cerevisiae DNA repair gene RAD23 increase in response to UV light and in meiosis but remain constant in the mitotic cell cycle. Madura K, et al. **Nucleic Acids Res** 1990 Aug 25; 18(16):4737–42

Expression of the Saccharomyces cerevisiae DNA repair gene RAD6 that encodes a ubiquitin conjugating enzyme, increases in response to DNA damage and in meiosis but remains constant during the mitotic cell cycle. Madura K, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):771–8

Purification to homogeneity and partial amino acid sequence of a fragment which includes the methyl acceptor site of the human DNA repair protein for O6-methylguanine. Major GN, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1351–9

Rapid repair kinetics of pyrimidine(6–4)pyrimidone photoproducts in human cells are due to excision rather than conformational change. Mitchell DL, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):963–71

Minichromosome assembly accompanying repair-type DNA synthesis in Xenopus oocytes. Ryoji M, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10243–58

The repair patch of E. coli (A)BC excinuclease. Sibghat-Ullah, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5051–3

DNA repair in a small yeast plasmid folded into chromatin. Smerdon MJ, et al. **Nucleic Acids Res** 1990 Apr 25; 18(8):2045–51

The residual repair capacity of xeroderma pigmentosum complementation group C fibroblasts is highly specific for transcriptionally active DNA. Venema J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):443–8

Heterogeneity of DNA repair: implications for human disease and oncology. Bohr VA, et al. **Pediatr Hematol Oncol** 1990; 7(1):47–69 (70 ref.)

Repair of UV-damaged incoming plasmid DNA in Saccharomyces cerevisiae. Keszenman-Pereyra D. **Photochem Photobiol** 1990 Mar;51(3):331–42

Expression of an Anacystis nidulans photolyase gene in Escherichia coli; functional complementation and modified action spectrum of photoreactivation. Takao M, et al. **Photochem Photobiol** 1989 Nov;50(5):633–7

Effect of induction of SOS response on expresaion of pBR322 genes and on plasmid copy number. Bertrand-Burggraf E, et al. **Plasmid** 1989 Sep;22(2):163–8

Molecular structure of nicked DNA: a substrate for DNA repair enzymes. Aymami J, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2526–30

Dominant negative umuD mutations decreasing RecA-mediated cleavage suggest roles for intact UmuD in modulation of SOS mutagenesis. Battista JR, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7190–4

Cloning a eukaryotic DNA glycosylase repair gene by the suppression of a DNA repair defect in Escherichia coli. Chen J, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(20):7961–5

"Activated"-RecA protein affinity chromatography of LexA repressor and other SOS-regulated proteins. Freitag N, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8363–7

Strand-specific mismatch correction in nuclear extracts of human and Drosophila melanogaster cell lines. Holmes J Jr, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5837–41

Complementation of a DNA repair defect in xeroderma pigmentosum cells by transfer of human chromosome 9. Kaur GP, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):8872–6

Introduction of specific point mutations into RNA polymerase II by gene targeting in mouse embryonic stem cells: evidence for a DNA mismatch repair mechanism. Steeg CM, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4680–4

A ubiquitin carrier protein from wheat germ is structurally and functionally similar to the yeast DNA repair enzyme encoded by RAD6. Sullivan ML, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9861–5

Evidence for the double-strand break repair model of bacteriophage lambda recombination. Takahashi N, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2790–4

Isolation and structural characterization of a cDNA clone encoding the human DNA repair protein for O6-alkylguanine [published erratum appears in Proc Natl Acad Sci U S A 1990 Apr;87(8):3253] Tano K, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):686–90

Frequency of intrachromosomal homologous recombination induced by UV radiation in normally repairing and excision repair-deficient human cells. Tsujimura T, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1566–70

The genetic defect in Cockayne syndrome is associated with

a defect in repair of UV-induced DNA damage in transcriptionally active DNA. Venema J, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4707-11

Mismatch-specific thymine DNA glycosylase and DNA polymerase beta mediate the correction of G.T mispairs in nuclear extracts from human cells. Wiebauer K, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5842-5

The SOS response and induced mutagenesis. Battista JR, et al. **Prog Clin Biol Res** 1990;340A:169-78 (43 ref.)

Poly (ADP-ribose) polymerase gene: direct or indirect involvement in DNA repair and malignancy? Bhatia K, et al. **Prog Clin Biol Res** 1990;340A:233-40

Cloning Drosophila repair genes by transposon tagging. Boyd JB, et al. **Prog Clin Biol Res** 1990;340A:205-11

Molecular mechanism of post-replication repair: formation and resolution of recombination intermediates in vitro. Conley EC, et al. **Prog Clin Biol Res** 1990;340A:121-33 (23 ref.)

Oxidative DNA damage: repair and inducible cellular responses. Demple B. **Prog Clin Biol Res** 1990;340A:155-67

Transgenic mice expressing the bacterial O6 alkylguanine-DNA alkyltransferase gene: an animal model to study the role of DNA repair in the carcinogenesis of N-nitroso compounds. Dumenco LL, et al. **Prog Clin Biol Res** 1990;340A:369-78

DNA-damage-inducible genes in mammalian cells. Fornace AJ Jr, et al. **Prog Clin Biol Res** 1990;340A:315-25

Selective DNA repair in expressed genes in mammalian cells. Hanawalt PC. **Prog Clin Biol Res** 1990;340A:213-22 (26 ref.)

Evolutionary significance of genetic stability and change. Haynes RH. **Prog Clin Biol Res** 1990;340A:27-40 (47 ref.)

Direct measurement of chromosome repair by premature chromosome condensation. Hittelman WN. **Prog Clin Biol Res** 1990;340B:337-46 (20 ref.)

Effect of umuC on EMS-induced mutagenesis in Escherichia coli deficient in mismatch repair. Janion C, et al. **Prog Clin Biol Res** 1990;340A:145-53

Cloning of the functional human excision repair gene ERCC-5: potential gene regulatory features conserved with other human repair genes. MacInnes MA, et al. **Prog Clin Biol Res** 1990;340A:265-74

The role of the nuclear matrix in DNA repair. Mullenders LH, et al. **Prog Clin Biol Res** 1990;340A:223-32

Decreased mutagenicity in Fanconi's anemia lymphoblasts following treatment with photoactivated psoralens. Papadopoulo D, et al. **Prog Clin Biol Res** 1990;340A:241-8

Association between radiation sensitivity, DNA repair and chromosome organization in the Chinese hamster ovary cell line xrs-5. Schwartz JL, et al. **Prog Clin Biol Res** 1990; 340A:255-64

Influence of DNA excision repair on UV-induced mutation spectra in Chinese hamster cells. van Zeeland AA, et al. **Prog Clin Biol Res** 1990;340A:249-54

DNA repair in higher plants. Velemínsky J, et al. **Prog Clin Biol Res** 1990;340A:195-203 (42 ref.)

Inducible repair of cytogenetic damage to human lymphocytes: adaptation to low-level exposures to DNA-damaging agents. Wolff S, et al. **Prog Clin Biol Res** 1990;340B:397-405 (30 ref.)

Site-directed mutagenesis of the T4 endonuclease V gene: mutations which enhance enzyme specific activity at low salt concentrations. Lloyd RS, et al. **Proteins** 1989; 6(2):128-38

The effect of hypothermic treatment on the repair or expression of X-ray damage measured in split dose experiments on L5178Y-S cells. Kapiszewska M, et al. **Radiat Environ Biophys** 1989;28(4):303-17

Excision repair differences in rat fibroblasts. Klaus H, et al. **Radiat Environ Biophys** 1989;28(4):273-6

In vitro holding and PLD-repair: II. A flow cytometric and electron microscopic analysis of some mammalian cell lines. Stevenson AF, et al. **Radiat Environ Biophys** 1989; 28(4):277-90

Radiation-induced cytotoxicity, DNA damage and DNA repair: implications for cell survival theory. Swarts SG, et al. **Radiat Environ Biophys** 1990;29(2):93-102

Formation and repair of DNA-protein crosslinks in newly replicated DNA. Chiu SM, et al. **Radiat Res** 1989 Dec; 120(3):545-51

The relationship between radiosensitivity and repair of potentially lethal damage in human tumor cell lines with implications for radioresponsiveness. Deschavanne PJ, et al. **Radiat Res** 1990 Apr;122(1):29-37

Differential repair of potentially lethal damage in exponentially growing and quiescent 9L cells. Mendonca MS, et al. **Radiat Res** 1990 Apr;122(1):38-43

Multiple components of split-dose repair in plateau-phase mammalian cells: a new challenge for phenomenological modelers. Nelson JM, et al. **Radiat Res** 1990 Feb; 121(2):154-60

Heterogeneity in radiation-induced DNA damage and repair in tumor and normal cells measured using the "comet" assay. Olive PL, et al. **Radiat Res** 1990 Apr;122(1):86-94

Comparison of recovery from potentially lethal damage after exposure to hyperthermia and radiation. Raaphorst GP, et al. **Radiat Res** 1990 Jan;121(1):107-10

Prediction of the radiation sensitivity of human squamous cell carcinoma cells using DNA filter elution. Schwartz JL, et al. **Radiat Res** 1990 Jul;123(1):1-6

Hyperthermia, polyamine depletion, and inhibition of X-ray-induced DNA strand break repair. Snyder RD, et al. **Radiat Res** 1989 Oct;120(1):121-8

A kinetic analysis of the repair of radiation-induced DNA double-strand breaks. Tseng S, et al. **Radiat Res** 1990 Jun; 122(3):333-6

Kissing cousins. A DNA repair system stops species from interbreeding. Rennie J. **Sci Am** 1990 Feb;262(2):22-3

Singlet oxygen mediated photobinding of 8-methoxypsoralen to DNA and genotoxicity in E. coli. Beijersbergen van Henegouwen GM, et al. **Z Naturforsch [C]** 1989 Sep-Oct; 44(9-10):819-23

UVA-induced genetic effects of thioridazine, mesoridazine and sulforidazine: an in vitro study. Schoonderwoerd SA, et al. **Z Naturforsch [C]** 1990 Jun;45(6):638-44

Application of an alternative approach for using the SOS chromotest to screen complex indeterminate mixtures. Janz S, et al. **Zentralbl Mikrobiol** 1990;145(3):177-82

[DNA repair capacity, chromosome aberration rate and chromosome fragile sites among members of 7 cancer families] Wu DF. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Dec; 11(6):425-9 (Eng. Abstr.) **(Chi)**

[Analysis of and repair capacity in 247 cancer patients and normal persons by nucleoid sedimentation technique] Wu DF, et al. **I Chuan Hsueh Pao** 1989;16(3):238-43 (Eng. Abstr.) **(Chi)**

[Effect of neocarzinostatin on E. coli mutants deficient in DNA repair] Denklau D, et al. **Z Naturforsch [C]** 1989 Sep-Oct;44(9-10):791-6 (Eng. Abstr.) **(Ger)**

[Progress of research on xeroderma pigmentosum] Tanaka K. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1095-103 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Disorders of DNA repair--xeroderma pigmentosum, and other hereditary diseases with abnormal DNA repair] Sugano T, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr; 33(5):619-24 **(Jpn)**

[Decrease in repair processes in lymphocytes of workers exposed to heavy metals] Chopikashvili LV, et al. **Genetika** 1989 Dec;25(12):2247-50 (Eng. Abstr.) **(Rus)**

[Induction of SOS function in Escherichia coli after exposure to various types of chemical mutagens] Dzhedzhelava DA, et al. **Genetika** 1989 Sep;25(9):1551-8 (Eng. Abstr.) **(Rus)**

[Mechanisms of disruption of DNA in human cells. Mutagenesis of a virus in xeroderma pigmentosum cells as an indicator of a defect in DNA repair] L'vova GN, et al. **Genetika** 1989 Jun;25(6):1095-100 (Eng. Abstr.) **(Rus)**

[Mechanisms of impairment of DNA repair in human cells. Effects of native and recombinant interferons in UV-irradiated human fibroblasts] Sinel'shchikova TA, et al. **Genetika** 1989 Nov;25(11):2044-9 (Eng. Abstr.) **(Rus)**

[Mechanisms of disrupting DNA repair in human cells. IV. Interferon protects DNA of noninfected and chronically infected human cells from damage caused by cadmium chloride] Vasil'eva IM, et al. **Genetika** 1989 Oct; 25(10):1872-7 (Eng. Abstr.) **(Rus)**

[Interference of inducible repair processes in Escherichia coli] Vasil'eva SV, et al. **Genetika** 1989 Dec;25(12):2138-50 (Eng. Abstr.) **(Rus)**

[A comparative analysis of mutagenic and SOS-induced activity in three classes of chemical compounds] Vasil'eva SV, et al. **Genetika** 1989 Oct;25(10):1740-6 (Eng. Abstr.) **(Rus)**

[Ability of the lymphocytes in the peripheral blood of oncologic patients to repair DNA] Nikiforova NA, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):25-7 (Eng. Abstr.) **(Rus)**

[Study of the mechanism of mutagenesis directed by phosphotriester analogs of oligonucleotides. The role of repair in mutagenesis] Petrenko VA, et al. **Mol Biol (Mosk)** 1990 Mar-Apr;24(2):460-6 (Eng. Abstr.) **(Rus)**

[Repair of a double-stranded gap in plasmid DNA in radiosensitive mutants of Saccharomyces cerevisiae: effectiveness and precision] Glazer VM, et al. **Mol Gen Mikrobiol Virusol** 1989 Sep;(9):14-20 (Eng. Abstr.) **(Rus)**

[DNA synthesis in heart cells in its compensatory hyperfunction] Iavich MP, et al. **Patol Fiziol Eksp Ter** 1989 May-Jun;(3):39-42 (Eng. Abstr.) **(Rus)**

[The ability of peripheral blood lymphocytes to repair DNA and the survival of rats] Barabol' VA, et al. **Radiobiologiia** 1990 May-Jun;30(3):305-7 (Eng. Abstr.) **(Rus)**

[The role of repair processes in synergism] Diagilev SA, et al. **Radiobiologiia** 1989 Sep-Oct;29(5):605-10 (Eng. Abstr.) **(Rus)**

[Role of the processes of repair of DNA damage in the repair of cytogenetic disorders. Participation of the repair of DNA single-strand breaks in the repair of cytogenetic disorders] Rozanova OM, et al. **Radiobiologiia** 1989 Sep-Oct;29(5):585-8 (Eng. Abstr.) **(Rus)**

[The role of DNA repair processes in the repair of cytogenetic disorders. The participation of slow to repair DNA damage in the repair of cytogenetic disorders] Zaichkina SI, et al. **Radiobiologiia** 1989 Nov-Dec; 29(6):833-5 (Eng. Abstr.) **(Rus)**

[Analysis of familial cases of gout using tests for DNA repair] Filippova VG, et al. **Ter Arkh** 1989;61(6):54-8 (Eng. Abstr.) **(Rus)**

[Suppression of replication and activation of DNA reparative synthesis in stress and prevention of these phenomena by preliminary adaptation] Meerson FZ, et al. **Vopr Med Khim** 1989 Jul-Aug;35(4):48-51 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Characteristics of MNNG induced repair synthesis and DNA synthesis induced by human cytomegalovirus. Anuszewska E, et al. **Acta Biochim Pol** 1989;36(2):105-14

Recognition by the DNA repair system of DNA structural alterations induced by reversible drug-DNA interactions. Lambert B, et al. **Anticancer Drug Des** 1990 Feb;5(1):43-53

Modulation of doxorubicin-induced DNA lesions by verapamil, DMDP and dipyridamole in resistant P388 cell lines. Yin MB, et al. **Anticancer Res** 1990 Mar-Apr; 10(2A):327-32

Induction of the SOS response in Escherichia coli by azidothymidine and dideoxynucleosides. Mamber SW, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1237-43

Two different mechanisms are involved for the bleomycin-induced DNA repair synthesis in permeabilized HeLa cells. Park IS, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1226-33

Mechanisms underlying resistance to streptozotocin in Mer+ and Mer- human tumor lines. Fram RJ, et al. **Biochem Pharmacol** 1990 Mar 1;39(5):959-64

Effect of DNA polymerase inhibitors on DNA repair in intact and permeable human fibroblasts: evidence that DNA polymerases delta and beta are involved in DNA repair synthesis induced by N-methyl-N'-nitro-N-nitrosoguanidine. Hammond RA, et al. **Biochemistry** 1990 Jan 9;29(1):286-91

Diamide induced shift in protein and glutathione thiol: disulfide status delays DNA rejoining after X-irradiation of human cancer cells. Baker MA, et al. **Biochim Biophys Acta** 1990 Jan 19;1037(1):39-47

Repair of acetyl-aminofluorene modified pBR322 DNA in Xenopus laevis oocytes and eggs; effect of diadenosine tetraphosphate. Orfanoudakis G, et al. **Biochimie** 1990 Apr; 72(4):271-8

Relationship between cytotoxicity, drug accumulation, DNA damage and repair of human ovarian cancer cells treated with doxorubicin: modulation by the tiapamil analog RO11-2933. Alaoui Jamali MA, et al. **Cancer Chemother Pharmacol** 1989;25(2):77-83

Damage and repair induced by bleomycin in the domain of human amplified MYC oncogenes. Bianchi NO, et al. **Cancer Res** 1990 Apr 15;50(8):2379-84

Inhibition of DNA excision repair by methotrexate in Chinese hamster ovary cells following exposure to ultraviolet irradiation or ethylmethanesulfonate. Borchers AH, et al. **Cancer Res** 1990 Mar 15;50(6):1786-9

Bleomycin-induced DNA damage and repair in human cells permeabilized with lysophosphatidylcholine. Sidik K, et al. **Cancer Res** 1990 Mar 1;50(5):1613-9

Reductive metabolism of 3-amino-1,2,4-benzotriazine-1,4-dioxide (SR 4233) and the induction of unscheduled DNA synthesis in rat and human derived cell lines. Cahill A, et al. **Carcinogenesis** 1990 Aug;11(8):1407-11

Aphidicolin-sensitive DNA repair synthesis in human fibroblasts damaged with bleomycin is distinct from UV-induced repair. DiGiuseppe JA, et al. **Carcinogenesis** 1990 Jun;11(6):1021-6

Mycotoxin induction of somatic mosaicism in Drosophila and DNA repair in mammalian liver cell cultures. Belitsky GA, et al. **Cell Biol Toxicol** 1985 Jun;1(3):133-43

Elevation of dCTP pools in xeroderma pigmentosum variant human fibroblasts alters the effects of DNA repair arrest by arabinofuranosyl cytosine. Dunn WC, et al. **Cell Biol Toxicol** 1985 Jan;1(2):75-86

Genotoxicity in the hepatocyte/DNA repair test and toxicity to liver mitochondria of 1-hydroxyanthraquinone and several dihydroxyanthraquinones. Kawai K, et al. **Cell Biol Toxicol** 1986 Dec;2(4):457-67

Activities of chlorinated ethane and ethylene compounds in the Salmonella/rat microsome mutagenesis and rat hepatocyte/DNA repair assays under vapor phase exposure conditions. Shimada T, et al. **Cell Biol Toxicol** 1985 Jun; 1(3):159-79

Inhibitors of ribonucleotide reductase alter DNA repair in human fibroblasts through specific depletion of purine deoxynucleotide triphosphates. Snyder RD. **Cell Biol Toxicol** 1984 Oct;1(1):81-94

Measurement of unscheduled DNA synthesis and S-phase synthesis in rodent hepatocytes following in vivo treatment: testing of 24 compounds. Mirsalis JC, et al. **Environ Mol Mutagen** 1989;14(3):155-64

Effect of novobiocin on gamma-radiation-induced DNA repair in human lymphocyte subpopulations. van Rensburg EJ, et al. **Int J Biochem** 1989;21(10):1115-8

Increased levels of 5-fluorouracil-induced DNA lesions in Bloom's syndrome. Lönn U, et al. **Int J Cancer** 1990 Mar 15;45(3):494-9

Doxorubicin decreases the repair of radiation-induced DNA damage. Bonner JA, et al. **Int J Radiat Biol** 1990 Jan; 57(1):55-64

The effect of post-irradiation anisotonic treatment on cell survival and repair of DNA damage. McNally NJ, et al. **Int J Radiat Biol** 1990 Mar;57(3):503-12

Trends and developments in radioprotection: the effect of nicotinamide on DNA repair. Riklis E, et al. **Int J Radiat Biol** 1990 Apr;57(4):699-708 (39 ref.)

Electrochemical characteristics of five quinolone drugs and their effect on DNA damage and repair in Escherichia coli. Thomas A, et al. **J Antimicrob Chemother** 1990 May; 25(5):733–44

The effect of mutations in the SOS response on the kinetics of quinolone killing. Walters RN, et al. **J Antimicrob Chemother** 1989 Dec;24(6):863–73

Quantitation of the relationship between tester cell number inoculated and SOS–inducing potency of 4–nitroquinoline–1–oxide (4–NQO) in an automated version of the SOS chromotest. Janz S, et al. **J Basic Microbiol** 1989;29(7):403–11

Photodynamic action of methylene blue: repair and mutation in Escherichia coli. Menezes S, et al. **J Photochem Photobiol B** 1990 May;5(3–4):505–17

Inductions of ornithine decarboxylase and replicative DNA synthesis but not DNA single strand scission or unscheduled DNA synthesis in the pyloric mucosa of rat stomach by catechol. Furihata C, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1052–7

Species and organ differences in DNA adduct formation and repair after treatment with 4–hydroxyaminoquinoline 1–oxide. Qin XS, et al. **Jpn J Cancer Res** 1990 Jun–Jul; 81(6–7):613–9

Inhibition of DNA ligase activity by arsenite: a possible mechanism of its comutagenesis. Li JH, et al. **Mol Toxicol** 1989 Winter;2(1):1–9

Strong antimutagenic effect of caffeine on 9–aminoacridine–induced frameshift mutagenesis in Escherichia coli K12. Pons FW, et al. **Mutagenesis** 1990 Jul;5(4):363–6

Effect of pretreatment with hepatic mixed–function oxidase inducers on the genotoxicity of four rat carcinogens in the hepatocyte/DNA repair assay. Shaddock JG, et al. **Mutagenesis** 1990 Jul;5(4):387–91

Induction of SOS genes in Escherichia coli and mutagenesis in Salmonella typhimurium by fluoroquinolones. Ysern P, et al. **Mutagenesis** 1990 Jan;5(1):63–6

The induction of DNA–strand breaks and unscheduled DNA synthesis in F–344 rat hepatocytes following in vivo administration of caprolactam or benzoin. Bermudez E, et al. **Mutat Res** 1989 Nov;224(3):361–4

Biochemical and cytogenetical characterization of Chinese hamster ovary X–ray–sensitive mutant cells xrs 5 and xrs 6. VI. The correlation between UV–induced DNA lesions and chromosomal aberrations, and their modulations with inhibitors of DNA repair synthesis. Darroudi F, et al. **Mutat Res** 1990 Mar;235(2):129–35

Identification of a HeLa mRNA fraction which can correct the DNA–repair defect in Fanconi anaemia fibroblasts. Digweed M, et al. **Mutat Res** 1989 Nov;218(3):171–7

Mutagenic and recombinogenic consequences of DNA–repair inhibition during treatment with 1,3–bis(2–chloroethyl)–1–nitrosourea in Saccharomyces cerevisiae. Ferguson LR. **Mutat Res** 1990 Aug; 241(4):369–77

Genotoxicity of heterocyclic amines in the hepatocyte/DNA repair assay using hepatocytes of rats or mice pretreated with 3–methylcholanthrene. Iwata H, et al. **Mutat Res** 1990 May;244(1):1–6

DNA repair and chromosomal stability in the alkylating agent–hypersensitive Chinese hamster cell line 27–1. Kaina B, et al. **Mutat Res** 1990 Mar;243(3):219–24

9–amino–ellipticine inhibits the apurinic site–dependent base excision–repair pathway. Lefrançois M, et al. **Mutat Res** 1990 Jul;236(1):9–17

Effects of trypsin on X–ray–induced cell killing, chromosome abnormalities and kinetics of DNA repair in mammalian cells. Sprunt EA, et al. **Mutat Res** 1990 Feb;228(2):211–9

Inhibition of DNA repair synthesis in the rat by in vivo exposure to psychotropic drugs and reversal of the effect by co–administration with alpha–tocopherol. Srám RJ, et al. **Mutat Res** 1990 Aug;244(4):331–5

DNA repair induced by various mutagens in rat hepatocyte primary cultures measured in the presence of hydroxyurea, guanazole or aphidicolin. Suter W, et al. **Mutat Res** 1990 Aug;231(2):251–64

Mutagenicity studies on paracetamol in human volunteers. II. Unscheduled DNA synthesis and micronucleus test. Topinka J, et al. **Mutat Res** 1989 Nov;227(3):147–52

Inhibition of induction of adaptive response by o–vanillin in Escherichia coli B. Watanabe K, et al. **Mutat Res** 1990 Apr;243(4):273–80

Assessment of unscheduled DNA synthesis in Fischer 344 rat pachytene spermatocytes exposed to caprolactam or benzoin in vivo. Working PK. **Mutat Res** 1989 Nov; 224(3):365–8

Comparison of effects of fostriecin, novobiocin, and camptothecin, inhibitors of DNA topoisomerases, on DNA replication and repair in human cells. Gedik CM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1007–13

Molecular mechanisms of DNA repair inhibition by caffeine. Selby CP, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(9):3522–5

DNA repair deficiency for alkylation damage in cells from Alzheimer's disease patients. Bradley WG, et al. **Prog Clin Biol Res** 1989;317:715–32

Automation of screening assays for DNA damaging agents which induce the SOS response. Elespuru RK. **Prog Clin Biol Res** 1990;340D:345–54

Mechanisms of caffeine inhibition of DNA repair in E. coli. Selby CP, et al. **Prog Clin Biol Res** 1990;340A:179–93

Differential response of human and rodent cell lines to chemical inhibition of the repair of potentially lethal damage. Little JB, et al. **Radiat Environ Biophys** 1989; 28(3):193–202

The action of caffeine on X–irradiated HeLa cells. X. Depressed recovery from potentially lethal damage in cells containing 5–bromodeoxyuridine. Labanowska J, et al. **Radiat Res** 1990 Aug;123(2):228–31

Inhibitors of repair of potentially lethal damage and DNA polymerases also influence the recovery of potentially neoplastic transforming damage in C3H10T–1/2 cells. Raaphorst GP, et al. **Radiat Res** 1990 Jul;123(1):49–54

Novobiocin inhibits the repair of potentially lethal damage but not the repair of sublethal damage. Utsumi H, et al. **Radiat Res** 1990 Jul;123(1):55–60

Inhibition of DNA excision by DNA polymerase–alpha inhibitor in UV–damaged HeLa cells. Joe CO, et al. **Toxicol Lett** 1990 Aug;52(3):253–9

[Effect of an essence–restoring decoction on DNA repair capacity] Ding YF, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):647–9, 643 (Eng. Abstr.) **(Chi)**

[Effect of chloramphenicol on DNA repair synthesis in fetal liver cells of rats] Wang AP, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):543–5 (Eng. Abstr.) **(Chi)**

[Enhancement of endonuclease activity and repair DNA synthesis by polysaccharide of Spirulina platensis] Pang QS, et al. **I Chuan Hsueh Pao** 1988;15(5):374–81 (Eng. Abstr.) **(Chi)**

[Correlation of the toxic effects of the environment and the genetic information of the individual] Roser M, et al. **Internist (Berl)** 1989 Sep;30(9):587–95 (50 ref.) **(Ger)**

[Therapy of aging skin] Roeser BE, et al. **Z Hautkr** 1989 Nov 15;64(11):1019–20, 1025–6 (13 ref.) (Eng. Abstr.) **(Ger)**

[The mutagenicity of organic microcontamination in the environment. III. The mutagenicity of selected herbicides and insecticides in the SOS chromotest] Mersch–Sundermann V, et al. **Zentralbl Hyg Umweltmed** 1989 Nov;189(2):135–46 (Eng. Abstr.) **(Ger)**

[Interferon stimulation of DNA reparative synthesis in human cells with an inhibited repair system] Chekova VV, et al. **Dokl Akad Nauk SSSR** 1989;309(5):1238–40 **(Rus)**

[Mechanisms of impairment of DNA repair in human cells. Interferons stimulated DNA repair in xeroderma pigmentosum cells] Sinel'shchikova TA, et al. **Genetika** 1989 Sep;25(9):1658–63 (Eng. Abstr.) **(Rus)**

[An evaluation of the DNA–damaging action of the metal carcinogen beryllium using a bacterial repair test] Dylevoĭ MV. **Mikrobiol Zh** 1990 Jan–Feb;52(1):34–8 (Eng. Abstr.) **(Rus)**

[Polysaccharide—a stimulant of DNA reparative synthesis] Frolov AF, et al. **Mikrobiol Zh** 1989 Jul–Aug;51(4):98–9 (Eng. Abstr.) **(Rus)**

[The effect of proteinase inhibitors on the level of degradation and unscheduled synthesis of DNA in ultraviolet– and gamma–irradiated cellsof mouse ascitic carcinoma] Zakrzhevskaia DT, et al. **Radiobiologiia** 1989 Nov–Dec; 29(6):732–6 (Eng. Abstr.) **(Rus)**

[The effect of inhibitors of ADP ribosylation on the restoration of the mitotic cycle and on DNA repair after the action of ionizing radiation in Chinese hamster cells] Kirillova TV, et al. **Tsitologiia** 1990;32(1):79–86 (Eng. Abstr.) **(Rus)**

GENETICS

Addition of telomere–associated HeT DNA sequences "heals" broken chromosome ends in Drosophila. Biessmann H, et al. **Cell** 1990 May 18;61(4):663–73

Site–specific DNA repair at the nucleosome level in a yeast minichromosome. Smerdon MJ, et al. **Cell** 1990 May 18; 61(4):675–84

Refined mapping of the three DNA repair genes, ERCC1, ERCC2, and XRCC1, on human chromosome 19. Mohrenweiser HW, et al. **Cytogenet Cell Genet** 1989; 52(1–2):11–4

ERCC2: cDNA cloning and molecular characterization of a human nucleotide excision repair gene with high homology to yeast RAD3. Weber CA, et al. **EMBO J** 1990 May;9(5):1437–47

Heteroduplex DNA correction in Saccharomyces cerevisiae is mismatch specific and requires functional PMS genes. Kramer B, et al. **Mol Cell Biol** 1989 Oct;9(10):4432–40

Studies on mammalian mutants defective in rejoining double–strand breaks in DNA. Jeggo PA. **Mutat Res** 1990 Jul;239(1):1–16 (109 ref.)

Studies on Tn10 transposition and excision in DNA–repair mutants of Salmonella typhimurium. Lorenzo C, et al. **Mutat Res** 1990 Sep;232(1):99–104

Enhanced O6–methylguanine–DNA methyltransferase activity in transgenic mice containing an integrated E. coli ada repair gene. Matsukuma S, et al. **Mutat Res** 1989 Nov; 218(3):197–206

High frequency of spontaneous Minute mutations detected in the F1 progeny of interstrain matings between a recombination–defective mei–9L1 and the y w m f/sc8(y+) Y BS; dp strain of Drosophila melanogaster. Miyamoto T. **Mutat Res** 1990 Mar;243(3):207–12

[The SOS–like reactions of Pseudomonas putida] Broun II, et al. **Biol Nauki** 1990;(3):124–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

"The derivative assay"—an analysis of two fast components of DNA rejoining kinetics. Sandström BE. **Anal Biochem** 1989 Nov 1;182(2):233–6

Repair of X–ray–induced single–strand breaks by a cell–free system. Seki S, et al. **Carcinogenesis** 1990 Jul;11(7):1213–6

Evidence for an involvement of thymidine kinase in the excision repair of ultraviolet–irradiated herpes simplex virus in human cells. Intine RV, et al. **Environ Mol Mutagen** 1990;15(1):19–23

Analysis of fidelity mechanisms with eukaryotic DNA replication and repair proteins. Kunkel TA, et al. **Genome** 1989;31(1):100–3 (23 ref.)

Mismatch repair and the fidelity of genetic recombination. Radman M. **Genome** 1989;31(1):68–73 (49 ref.)

Gap formation is associated with methyl–directed mismatch correction under conditions of restricted DNA synthesis. Su SS, et al. **Genome** 1989;31(1):104–11

Comparative analysis of the inherent radiosensitivity of ovarian carcinoma. Rotmensch J, et al. **Gynecol Obstet Invest** 1989;28(4):215–8

Repair of radiation–induced chromatid aberrations: relationship to G2 arrest in CHO cells. Rowley R. **Int J Radiat Biol** 1990 Sep;58(3):489–98

DNA repair at the level of the gene: molecular and clinical considerations. Bohr VA. **J Cancer Res Clin Oncol** 1990; 116(4):384–91 (20 ref.)

Nature of the SOS–inducing signal in Escherichia coli. The involvement of DNA replication. Sassanfar M, et al. **J Mol Biol** 1990 Mar 5;212(1):79–96

Nucleotide excision repair in Escherichia coli. Van Houten B. **Microbiol Rev** 1990 Mar;54(1):18–51 (285 ref.)

Fidelity of DNA polymerase I and the DNA polymerase I–DNA primase complex from Saccharomyces cerevisiae. Kunkel TA, et al. **Mol Cell Biol** 1989 Oct;9(10):4447–58

Expression of the recE gene during induction of the SOS response in Bacillus subtilis recombination–deficient strains. Gassel M, et al. **Mol Microbiol** 1989 Sep;3(9):1269–76

Glycosylases that excise modified DNA pyrimidines in young and senescent human WI–38 fibroblasts. Ganguly T, et al. **Mutat Res** 1990 Mar;237(2):107–15

Ultraviolet light–induced DNA damage in transcribed sequences: no change in repair with age. Kunisada T, et al. **Mutat Res** 1990 Mar;237(2):75–81

Repair of intrinsic DNA lesions. Lindahl T. **Mutat Res** 1990 May;238(3):305–11 (40 ref.)

Animal cell DNA polymerases in DNA repair. Perrino FW, et al. **Mutat Res** 1990 Sep–Nov;236(2–3):289–300 (81 ref.)

[Aberrations of protein and nucleic acid metabolism in aging. Role of free radicals] Housset B. **Rev Med Interne** 1990 Jan–Feb;11(1):62–6 (36 ref.) **(Fre)**

[Participation of the SSB protein in the repair of the DNA in Ehrlich ascites carcinoma cells following gamma radiation] Novoradovskaia NA, et al. **Radiobiologiia** 1989 Nov–Dec;29(6):729–31 (Eng. Abstr.) **(Rus)**

[Participation of the SSB protein in the repair of the DNA of Ehrlich ascites carcinoma cells following UV irradiation] Novoradovskaia NA, et al. **Radiobiologiia** 1989 Nov–Dec; 29(6):723–8 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

DNA repair within nucleosome cores of UV–irradiated human cells. Jensen KA, et al. **Biochemistry** 1990 May 22; 29(20):4773–82

A DNA double–strand break repair–deficient mutant of CHO cells shows reduced radiosensitization after exposure to hyperthermic temperatures in the plateau phase of growth. Iliakis G, et al. **Int J Hyperthermia** 1990 Jul–Aug; 6(4):801–12

Effects of hyperthermia on the repair of radiation–induced DNA single– and double–strand breaks in DNA double–strand break repair–deficient and repair–proficient cell lines. Iliakis G, et al. **Int J Hyperthermia** 1990 Jul–Aug; 6(4):813–33

The rejoining of DNA double–strand breaks following irradiation with 238Pu alpha–particles: evidence for a fast component of repair as measured by neutral filter elution. Fox JC, et al. **Int J Radiat Biol** 1990 Mar;57(3):513–21

Enhanced DNA repair and tolerance of DNA damage associated with resistance to cis–diammine–dichloroplatinum (II) after in vitro exposure of a human teratoma cell line to fractionated X–irradiation. Hill BT, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul; 19(1):75–83

Cellular and adenovirus dl312 DNA metabolism in cycling or mitotic human cultures exposed to supralethal gamma radiation. Ross PM. **J Cell Biol** 1989 Nov;109(5):1993–2002

Suppression of immunocompetence and DNA repair capacity by exposure in commercial tanning salons. Larcom LL, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1361

Differential response of excision proficient and deficient L5178Y cells to UVC irradiation and benzamide. Szumiel I, et al. **J Photochem Photobiol B** 1989 Aug;3(4):483–96

DNA repair induction by UV irradiation and various mutagens requiring metabolic activation in rat hepatocytes maintained in culture for several days. Beales S, et al. **Mutagenesis** 1989 Nov;4(6):456–61

Radio–adaptive response: characterization of a cytogenetic repair induced by low–level ionizing radiation in cultured Chinese hamster cells. Ikushima T. **Mutat Res** 1989 Dec; 227(4):241–6

Induction of the SOS response in Escherichia coli by heavy ions. Kozubek S, et al. **Mutat Res** 1989 Nov;215(1):49–53
Correction of the ultraviolet light induced DNA–repair defect in xeroderma pigmentosum cells by electroporation of a normal human endonuclease. Tsongalis GJ, et al. **Mutat Res** 1990 Jul;244(3):257–63
Indications of an adaptive response in C57BL mice pre–exposed in vivo to low doses of ionizing radiation. Wojcik A, et al. **Mutat Res** 1990 Jan;243(1):67–73
UV–induced DNA repair in leukemic cell differentiation. Nakamaki T, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Sep;52(6):977–87
The role of X–ray–induced DNA repair processes in mutagenesis and carcinogenesis. Boothman DA, et al. **Prog Clin Biol Res** 1990;340E:319–27 (20 ref.)
Changes in nucleoid viscosity following X–irradiation of rat thymic and splenic cells in vitro. Tempel K. **Radiat Environ Biophys** 1990;29(1):19–30
DNA repair deficient photodermatoses. Lehmann AR, et al. **Semin Dermatol** 1990 Mar;9(1):55–62 (62 ref.)
[Therapy with the rare gas radon–222] Briem H. **Biomed Tech (Berlin)** 1989;34 Suppl:240–1 (Ger)
[The effect of small radiation doses: desoxyribonucleic acid (DNA) synthesis and DNA repair by the thymus, spleen and bone marrow cells of rats following fractionated whole–body X–ray irradiation] Tempel K, et al. **Strahlenther Onkol** 1989 Sep;165(9):672–9 (Eng. Abstr.) (Ger)
[Recovery from potentially lethal damage of irradiated L5178Y–R and L5178Y–S cells: the effect of temperature and benzamide] Afanas'ev GG, et al. **Radiobiologiia** 1989 Nov–Dec;29(6):776–81 (Eng. Abstr.) (Rus)
[The role of the repair of double–stranded DNA breaks in the radioresistance of yeast cells] Glazunov AV. **Radiobiologiia** 1990 Jan–Feb;30(1):3–15 (47 ref.) (Eng. Abstr.) (Rus)
[A study of DNA repair in the thymocytes of irradiated rats using a spectrofluorometric method] Rusinova GG. **Radiobiologiia** 1990 May–Jun;30(3):405–7 (Eng. Abstr.) (Rus)
[A simple method for the comparative evaluation of the rate of reparative synthesis in cultured mammalian cells] Strel'tsov PG, et al. **Radiobiologiia** 1990 Mar–Apr; 30(2):279–82 (Eng. Abstr.) (Rus)

DNA REPETITIOUS REGION see **REPETITIVE SEQUENCES, NUCLEIC ACID**

DNA REPLICATION

see related
DNA UNTWISTING PROTEINS
DNA UNWINDING PROTEINS
VIRUS REPLICATION

DNA contents of replication without DNA density labeling. D'Anna JA, et al. **Anal Biochem** 1990 May 15;187(1):1–9
Characterization of the origin of DNA replication of the Coxiella burnetii chromosome. Chen SY, et al. **Ann N Y Acad Sci** 1990;590:491–503
Increased replication of HTLV–I in HTLV–I–associated myelopathy. Yoshida M, et al. **Ann Neurol** 1989 Sep; 26(3):331–5
Role of the DNA/membrane complex in prokaryotic DNA replication. Firshein W. **Annu Rev Microbiol** 1989; 43:89–120 (148 ref.)
Molecular mechanisms of replicational fidelity in Escherichia coli. Maki H, et al. **Basic Life Sci** 1990;52:299–308
Fidelity of animal cell DNA polymerases alpha and delta and of a human DNA replication complex. Thomas DC, et al. **Basic Life Sci** 1990;52:289–97
The replication timing of the amplified dihydrofolate reductase genes in the Chinese hamster ovary cell line CHOC 400. Caddle MS, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):134–9
A protein target site in an early replicated human DNA sequence: a highly conserved binding motif. Giacca M, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):956–65
Characterization of DNA pattern in the site of permanent attachment to the nuclear matrix located in the vicinity of replication origin. Kalandadze AG, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):9–15
Isolation of a cDNA that hybrid selects antiproliferative mRNA from rat liver. McClung JK, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1316–22
Primate's p53 inhibits SV40 DNA replication in vitro. Miyamoto N, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):604–8
Discontinuous DNA replication in a lig–7 strain of Escherichia coli is not the result of mismatch repair, nucleotide–excision repair, or the base–excision repair of DNA uracil. Wang TC, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):685–8
Sequence specificity of pausing by DNA polymerases. Weisman–Shomer P, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1149–56
Sustained increase in 1,2–diacylglycerol precedes DNA synthesis in epidermal–growth–factor–stimulated fibroblasts. Evidence for stimulated phosphatidylcholine hydrolysis. Wright TM, et al. **Biochem J** 1990 Apr 15; 267(2):501–7
Effects of the bacteriophage T4 gene 41 and gene 32 proteins on RNA primer synthesis: coupling of leading– and lagging–strand DNA synthesis at a replication fork. Cha TA, et al. **Biochemistry** 1990 Feb 20;29(7):1791–8
cis–syn thymine dimers are not absolute blocks to replication by DNA polymerase I of Escherichia coli in vitro. Taylor JS, et al. **Biochemistry** 1990 Feb 13;29(6):1624–32
Differences in human cell lines to support stable replication of Epstein–Barr virus–based vectors. Vidal M, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2–3):171–7
Structural modifications induced by the mtDBP–C protein in the replication origin of Xenopus laevis mitochondrial DNA. Mignotte B, et al. **Biochimie** 1990 Jan;72(1):65–72
DNA polymerase delta: a second eukaryotic DNA replicase. Downey KM, et al. **Bioessays** 1990 May;12(5):231–6 (51 ref.)
Nucleosome segregation—divided opinions? Fairman MP. **Bioessays** 1990 May;12(5):237–9 (14 ref.)
The organization of replication centres in higher eukaryotes. Jackson DA. **Bioessays** 1990 Feb;12(2):87–9 (27 ref.)
Chromosome reproduction: units of DNA for segregation. Taylor JH. **Bioessays** 1990 Jun;12(6):289–96 (41 ref.)
Microinjecting DNA into mouse ova to study DNA replication and gene expression and to produce transgenic animals. DePamphilis ML, et al. **Biotechniques** 1988 Jul–Aug;6(7):662–80 (60 ref.)
Molecular biology of hepadnavirus replication. Pugh JC, et al. **Br Med Bull** 1990 Apr;46(2):329–53 (78 ref.)
Expression of protein–associated DNA damage in the alkaline elution assay in the absence of enzymatic deproteinization. Gewirtz DA, et al. **Cancer Commun** 1989;1(3):175–80
Overexpression of DNA replication and repair enzymes in cisplatin–resistant human colon carcinoma HCT8 cells and circumvention by azidothymidine. Scanlon KJ, et al. **Cancer Commun** 1989;1(4):269–75
Centromere structure and function in neoplasia. Vig BK, et al. **Cancer Genet Cytogenet** 1989 Dec;43(2):151–78 (108 ref.)
Defective postreplication repair in xeroderma pigmentosum variant fibroblasts. Boyer JC, et al. **Cancer Res** 1990 May 1;50(9):2593–8
Genetic and biochemical characterization of the CHO–UV–1 mutant defective in postreplication recovery of DNA. Hentosh P, et al. **Cancer Res** 1990 Apr 15;50(8):2356–62
Differential requirement of DNA replication for the cytotoxicity of DNA topoisomerase I and II inhibitors in Chinese hamster DC3F cells. Holm C, et al. **Cancer Res** 1989 Nov 15;49(22):6365–8
An abnormal profile of DNA replication intermediates in Bloom's syndrome. Lönn U, et al. **Cancer Res** 1990 Jun 1;50(11):3141–5
Effects of microinjected photoreactivating enzyme on thymine dimer removal and DNA repair synthesis in normal human and xeroderma pigmentosum fibroblasts. Roza L, et al. **Cancer Res** 1990 Mar 15;50(6):1905–10
Effects of reoxygenation on cells from hypoxic regions of solid tumors: analysis of transplanted murine tumors for evidence of DNA overreplication. Young SD, et al. **Cancer Res** 1990 Aug 15;50(16):5031–8
Chromosome replication does not trigger cell division in E. coli. Bernander R, et al. **Cell** 1990 Feb 9;60(3):365–74
A cdc2–like protein is involved in the initiation of DNA replication in Xenopus egg extracts. Blow JJ, et al. **Cell** 1990 Sep 7;62(5):855–62
Binding and unwinding—how T antigen engages the SV40 origin of DNA replication. Borowiec JA, et al. **Cell** 1990 Jan 26;60(2):181–4 (30 ref.)
The role of dam methyltransferase in the control of DNA replication in E. coli. Boye E, et al. **Cell** 1990 Sep 7; 62(5):981–9
Identification of an origin of bidirectional DNA replication in mammalian chromosomes. Burhans WC, et al. **Cell** 1990 Sep 7;62(5):955–65
E. coli oriC and the dnaA gene promoter are sequestered from dam methyltransferase following the passage of the chromosomal replication fork. Campbell JL, et al. **Cell** 1990 Sep 7;62(5):967–79
A pathway for generation and processing of double–strand breaks during meiotic recombination in S. cerevisiae. Cao L, et al. **Cell** 1990 Jun 15;61(6):1089–101
Transcriptional activator nuclear factor I stimulates the replication of SV40 minichromosomes in vivo and in vitro. Cheng L, et al. **Cell** 1989 Nov 3;59(3):541–51
Mutation of fission yeast cell cycle control genes abolishes dependence of mitosis on DNA replication. Enoch T, et al. **Cell** 1990 Feb 23;60(4):665–73
A restricted cytoplasmic region of IL–2 receptor beta chain is essential for growth signal transduction but not for ligand binding and internalization. Hatakeyama M, et al. **Cell** 1989 Dec 1;59(5):837–45
The AAV origin binding protein Rep68 is an ATP–dependent site–specific endonuclease with DNA helicase activity. Im DS, et al. **Cell** 1990 May 4;61(3):447–57
Tus and the terminators: the arrest of replication in prokaryotes. Kuempel PL, et al. **Cell** 1989 Nov 17; 59(4):581–3 (18 ref.)
The two faces of higher eukaryotic DNA replication origins. Linskens MH, et al. **Cell** 1990 Sep 7;62(5):845–7 (21 ref.)
A mechanism of formation of a persistent hybrid between elongating RNA and template DNA. Masukata H, et al. **Cell** 1990 Jul 27;62(2):331–8
pT181 plasmid replication is regulated by a countertranscript–driven transcriptional attenuator. Novick RP, et al. **Cell** 1989 Oct 20;59(2):395–404
In vitro resolution of covalently joined AAV chromosome ends. Snyder RO, et al. **Cell** 1990 Jan 12;60(1):105–13
A novel pathway of DNA end–to–end joining. Thode S, et al. **Cell** 1990 Mar 23;60(6):921–8
Replication initiates in a broad zone in the amplified CHO dihydrofolate reductase domain. Vaughn JP, et al. **Cell** 1990 Jun 15;61(6):1075–87
A calcium flux at the termination of replication triggers cell division in Escherichia coli. Hypothesis. Norris V. **Cell Calcium** 1989 Nov–Dec;10(8):511–7 (53 ref.)
A cytoplasmic activator of DNA replication is involved in signal transduction in antigen–specific T cell lines. Wong RL, et al. **Cell Immunol** 1990 May;127(2):382–90
Concerted mechanism of DNA replication and transcription. Iguchi–Ariga SM, et al. **Cell Struct Funct** 1989 Dec; 14(6):649–51
BrdU pulse/reverse staining protocols for investigating chromosome replication. Aghamohammadi SZ, et al. **Chromosoma** 1990 Apr;99(1):76–82
Genomic amplification in the cotyledon parenchyma of common bean. Johnson KA, et al. **Chromosoma** 1990 Jul; 99(3):223–30
Direct repeats at nuclear matrix–associated DNA regions and their putative control function in the replicating eukaryotic genome. Opstelten RJ, et al. **Chromosoma** 1989 Dec; 98(6):422–7
Analysis of chromosome replication by a BrdU antibody technique. Vogel W, et al. **Chromosoma** 1989 Nov; 98(5):335–41
The pretreatment DNA labelling index of the blast cells of patients with acute lymphoblastic leukaemia as a prognostic factor in the outcome of treatment: the concept of 'G–0 acute leukaemia'. Béjar–Lozano C, et al. **Clin Lab Haematol** 1989;11(4):339–48
Transcript and sequence analysis of a 5.1 kb contiguous fragment of Dictyostelium discoideum plasmid Ddp1 that contains the origin of replication and codes for several transcripts. Gurniak CB, et al. **Curr Genet** 1990 Apr; 17(4):321–5
The effect of DNA replication on mutation of the Saccharomyces cerevisiae CDC8 gene. Zaborowska D, et al. **Curr Genet** 1990 Apr;17(4):275–80
DNA replication and its control. Blow JJ. **Curr Opin Cell Biol** 1989 Apr;1(2):263–7 (22 ref.)
The Escherichia coli chromosome and its replication. Masters M. **Curr Opin Cell Biol** 1989 Apr;1(2):241–9 (38 ref.)
DNA replication. van der Vliet PC. **Curr Opin Cell Biol** 1989 Jun;1(3):481–7 (33 ref.)
DNA replication. Virshup DM. **Curr Opin Cell Biol** 1990 Jun;2(3):453–60 (35 ref.)
Epstein–Barr virus DNA replication. Frey A, et al. **Curr Top Microbiol Immunol** 1989;144:227–32 (17 ref.)
DNA replication and poly(ADP–ribosyl)ation of chromatin. Anachkova B, et al. **Cytobios** 1989;58(236):19–28
Chromosome banding and DNA replication patterns in bird karyotypes. Schmid M, et al. **Cytogenet Cell Genet** 1989; 52(3–4):139–46
Stage–specific gene expression in early chick embryo. Zagris N, et al. **Dev Genet** 1989;10(4):333–8
Competition between transcription complex assembly and chromatin assembly on replicating DNA. Almouzni G, et al. **EMBO J** 1990 Feb;9(2):573–82
DNA replication origin and transcriptional enhancer in c–myc gene share the c–myc protein binding sequences. Ariga H, et al. **EMBO J** 1989 Dec 20;8(13):4273–9
Control of replication of plasmid R1: the duplex between the antisense RNA, CopA, and its target, CopT, is processed specifically in vivo and in vitro by RNase III. Blomberg P, et al. **EMBO J** 1990 Jul;9(7):2331–40
Amino–terminal domain of NF1 binds to DNA as a dimer and activates adenovirus DNA replication. Gounari F, et al. **EMBO J** 1990 Feb;9(2):559–66
Replication origin of a single–stranded DNA plasmid pC194. Gros MF, et al. **EMBO J** 1989 Sep;8(9):2711–6
Nucleosome assembly in mammalian cell extracts before and after DNA replication. Gruss C, et al. **EMBO J** 1990 Sep; 9(9):2911–22
Evidence of a ter specific binding protein essential for the termination reaction of DNA replication in Escherichia coli. Kobayashi T, et al. **EMBO J** 1989 Aug;8(8):2435–41
The DNA unwinding element: a novel, cis–acting component that facilitates opening of the Escherichia coli replication origin. Kowalski D, et al. **EMBO J** 1989 Dec 20; 8(13):4335–44
Transcriptional activation of bacteriophage lambda DNA replication in vitro: regulatory role of histone–like protein HU of Escherichia coli. Mensa–Wilmot K, et al. **EMBO J** 1989 Aug;8(8):2393–402
Isolation of a dnaA mutant of Bacillus subtilis defective in initiation of replication: amount of DnaA protein determines cells' initiation potential. Moriya S, et al. **EMBO J** 1990 Sep;9(9):2905–10
The extreme mutator effect of Escherichia coli mutD5 results from saturation of mismatch repair by excessive DNA replication errors. Schaaper RM, et al. **EMBO J** 1989 Nov; 8(11):3511–6
Strand separation required for initiation of replication at the chromosomal origin of E.coli is facilitated by a distant RNA—DNA hybrid. Skarstad K, et al. **EMBO J** 1990 Jul; 9(7):2341–8
Multiple replication factors augment DNA synthesis by the two eukaryotic DNA polymerases, alpha and delta.

Tsurimoto T, et al. **EMBO J** 1989 Dec 1;8(12):3883–9

The DNA binding domain (POU domain) of transcription factor oct–1 suffices for stimulation of DNA replication. Verrijzer CP, et al. **EMBO J** 1990 Jun;9(6):1883–8

Activation of SV40 DNA replication in vitro by cellular protein phosphatase 2A. Virshup DM, et al. **EMBO J** 1989 Dec 1;8(12):3891–8

Molecular cloning, primary structure and expression of the human X linked A1S9 gene cDNA which complements the ts A1S9 mouse L cell defect in DNA replication. Zacksenhaus E, et al. **EMBO J** 1990 Sep;9(9):2923–9

Physical relationship between a gene and its origin of replication in Physarum polycephalum. Benard M, et al. **Exp Cell Res** 1990 Feb;186(2):299–305

Ultrastructural immunolocalization of cyclin/PCNA in synchronized 3T3 cells. Raška I, et al. **Exp Cell Res** 1989 Sep;184(1):81–9

The dynamic distribution and quantification of DNA cruciforms in eukaryotic nuclei. Ward GK, et al. **Exp Cell Res** 1990 Jun;188(2):235–46

Studies on incorporation of 3H–thymidine in Arbacia eggs under hydrostatic pressure. Zimmerman AM, et al. **Exp Cell Res** 1967 Jun;46(3):469–76

Studies on the molecular–genetic basis of replicative senescence in Werner syndrome and normal fibroblasts. Goldstein S, et al. **Exp Gerontol** 1989;24(5–6):461–8

Control of cell proliferation in senescent cells. Introduction. Warner HR. **Exp Gerontol** 1989;24(5–6):351–4 (17 ref.)

Transcription and replication silencer element is present within conserved region of human Alu repeats interacting with nuclear protein. Tomilin NV, et al. **FEBS Lett** 1990 Apr 9;263(1):69–72

Localization of an origin of replication in Corynebacterium diphtheriae broad host range plasmid pNG2 that also functions in Escherichia coli. Serwold–Davis TM, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):119–23

The nature of an intragenic suppressor of the Escherichia coli dnaA508 temperature–sensitive mutation. Eberle H, et al. **Gene** 1989 Dec 14;84(2):237–45

Functional domain for priming activity in the phage phi 29 terminal protein. Garmendia C, et al. **Gene** 1990 Mar 30; 88(1):73–9

Mutational analysis of the primer RNA template region in the replication origin (oric) of bacteriophage G4: priming signal recognition by Escherichia coli primase. Hiasa H, et al. **Gene** 1989 Dec 7;84(1):9–16

Distinct functional contributions of three potential secondary structures in the phage G4 origin of complementary DNA strand synthesis. Hiasa H, et al. **Gene** 1989 Dec 7; 84(1):17–22

RepB′ is required in trans for the two single–strand DNA initiation signals in oriV of plasmid RSF1010. Honda Y, et al. **Gene** 1989 Aug 1;80(1):155–9

Analysis and nucleotide sequence of an origin of DNA replication in Acinetobacter calcoaceticus and its use for Escherichia coli shuttle plasmids. Hunger M, et al. **Gene** 1990 Mar 1;87(1):45–51

Mutations within the replicon of the IncN plasmid pCU1 that affect its Escherichia coli polA–independence but not its autonomous replication ability. Krishnan BR, et al. **Gene** 1990 Jul 2;91(1):1–7

Construction and replication of an adeno–associated virus expression vector that contains human beta–globin cDNA. Ohi S, et al. **Gene** 1990 May 14;89(2):279–82

Sequence similarities among monkey ori–enriched (ors) fragments. Rao BS, et al. **Gene** 1990 Mar 15;87(2):233–42

A novel expression assay to study transcriptional activators. Rusconi S, et al. **Gene** 1990 May 14;89(2):211–21

Expression of the rtp gene of Bacillus subtilis is required for replication fork arrest at the chromosome terminus. Smith MT, et al. **Gene** 1989 Dec 21;85(1):187–92

Physical characterisation of the replication region of the Streptococcus faecalis plasmid pAM beta 1. Swinfield TJ, et al. **Gene** 1990 Mar 1;87(1):79–90

Cell–cycle–regulated phosphorylation of DNA replication factor A from human and yeast cells. Din S, et al. **Genes Dev** 1990 Jun;4(6):968–77

The gene encoding ARS–binding factor I is essential for the viability of yeast. Rhode PR, et al. **Genes Dev** 1989 Dec; 3(12A):1926–39

Length heteroplasmy of sturgeon mitochondrial DNA: an illegitimate elongation model. Buroker NE, et al. **Genetics** 1990 Jan;124(1):157–63

Nucleolar dominance and replicative dominance in Drosophila interspecific hybrids. Goodrich–Young C, et al. **Genetics** 1989 Oct;123(2):349–58

Break–join recombination in phage lambda. Stahl FW, et al. **Genetics** 1990 Jul;125(3):463–74

DNA repair replication by soluble extracts from human lymphoid cell lines. Wood RD, et al. **Genome** 1989; 31(2):601–4

Chromosomal mapping and nucleotide sequence of a human DNA autonomously replicating sequence. Aguinaga M, et al. **Genomics** 1989 Oct;5(3):605–11

Immunofluorescent visualization of DNA replication sites within nuclei of Chinese hamster ovary cells. Banfalvi G, et al. **Histochemistry** 1989;93(1):81–6

No lack of complementation for unscheduled DNA synthesis between xeroderma pigmentosum complementation groups D and H [letter; comment] Robbins JH. **Hum Genet** 1989 Dec;84(1):99–101 Comment on: Hum Genet 1989 Feb;81(3):203–10.

Replication studies in the 16p+ variant. Thompson PW, et al. **Hum Genet** 1990 Mar;84(4):371–2

Demonstration of chromosome replication by BrdU antibody technique and electron microscopy. Vogel W, et al. **Hum Genet** 1990 Feb;84(3):237–40

Functional aspect of a phosphopeptide derived from calf thymus nuclei and DNA. Welsh RS, et al. **Indian J Exp Biol** 1990 Apr;28(4):301–7

Studies on scaffold attachment sites and their relation to genome function. Gasser SM, et al. **Int Rev Cytol** 1989; 119:57–96 (177 ref.)

Regulation of DNA synthesis investigated in heterokaryons of dividing and nondividing cells. Zelenin AV, et al. **Int Rev Cytol** 1989;117:179–214 (201 ref.)

Uptake of tritiated thymidine in mitochondria of the retina. Woodford BJ, et al. **Invest Ophthalmol Vis Sci** 1989 Dec; 30(12):2528–32

HIV DNA integration: observations and interferences. Kulkosky J, et al. **J Acquir Immune Defic Syndr** 1990; 3(9):839–51 (68 ref.)

A single DnaA box is sufficient for initiation from the P1 plasmid origin. Abeles AL, et al. **J Bacteriol** 1990 Aug; 172(8):4386–91

Methylation of GATC sites is required for precise timing between rounds of DNA replication in Escherichia coli. Bakker A, et al. **J Bacteriol** 1989 Oct;171(10):5738–42

SOS–dependent replication past a single trans–syn T–T cyclobutane dimer gives a different mutation spectrum and increased error rate compared with replication past this lesion in uninduced cells. Banerjee SK, et al. **J Bacteriol** 1990 Apr;172(4):2105–12

FtsZ regulates frequency of cell division in Escherichia coli. Bi E, et al. **J Bacteriol** 1990 May;172(5):2765–8

Relationship between DNA cycle and growth rate in Synechococcus sp. strain PCC 6301. Binder BJ, et al. **J Bacteriol** 1990 May;172(5):2313–9

Coupling of DNA replication to growth rate in Escherichia coli: a possible role for guanosine tetraphosphate. Chiaramello AE, et al. **J Bacteriol** 1990 Apr;172(4):2013–9

Chromosome partition in Escherichia coli requires postreplication protein synthesis. Donachie WD, et al. **J Bacteriol** 1989 Oct;171(10):5405–9

Replication of the broad–host–range plasmid RK2: direct measurement of intracellular concentrations of the essential TrfA replication proteins and their effect on plasmid copy number. Durland RH, et al. **J Bacteriol** 1990 Jul; 172(7):3849–58

Identification and characterization of a new replication region in the Neisseria gonorrhoeae beta–lactamase plasmid pFA3. Gilbride KA, et al. **J Bacteriol** 1990 May; 172(5):2439–46

Organization of the replication control region of plasmid ColIb–P9. Hama C, et al. **J Bacteriol** 1990 Apr; 172(4):1983–91

A facile and reversible method to decrease the copy number of the ColE1–related cloning vectors commonly used in Escherichia coli. Henry MF, et al. **J Bacteriol** 1989 Oct; 171(10):5254–61

Lactobacillus hilgardii plasmid pLAB1000 consists of two functional cassettes commonly found in other gram–positive organisms. Josson K, et al. **J Bacteriol** 1990 Jun;172(6):3089–99

Requirement of RecBC enzyme and an elevated level of activated RecA for induced stable DNA replication in Escherichia coli. Magee TR, et al. **J Bacteriol** 1990 Apr; 172(4):1834–9

Transcription events in the origin of replication of plasmid pSC101. Manen D, et al. **J Bacteriol** 1989 Dec; 171(12):6482–92

Location of a P1 plasmid replication inhibitor determinant within the initiator gene. Muraiso K, et al. **J Bacteriol** 1990 Aug;172(8):4441–7

DNA replication in Escherichia coli mutants that lack protein HU. Ogawa T, et al. **J Bacteriol** 1989 Oct;171(10):5672–9

Signal strains that can detect certain DNA replication and membrane mutants of Escherichia coli: isolation of a new ssb allele, ssb–3. Schmellik–Sandage CS, et al. **J Bacteriol** 1990 Aug;172(8):4378–85

Isolation and characterization of dnaJ null mutants of Escherichia coli. Sell SM, et al. **J Bacteriol** 1990 Sep; 172(9):4827–35

Plus–origin mapping of single–stranded DNA plasmid pE194 and nick site homologies with other plasmids. Sozhamannan S, et al. **J Bacteriol** 1990 Aug;172(8):4543–8

DnaA protein is not essential for replication of IncFII plasmid NR1. Tang XB, et al. **J Bacteriol** 1989 Oct; 171(10):5290–5

Effects of mutations in the repA gene of plasmid Rts1 on plasmid replication and autorepressor function. Terawaki Y, et al. **J Bacteriol** 1990 Feb;172(2):786–92

Participation of Escherichia coli heat shock proteins DnaJ, DnaK, and GrpE in P1 plasmid replication. Tilly K, et al. **J Bacteriol** 1989 Nov;171(11):6025–9

Isolation of the replication and partitioning regions of the Salmonella typhimurium virulence plasmid and stabilization of heterologous replicons. Tinge SA, et al. **J Bacteriol** 1990 Sep;172(9):5266–77

Site–directed mutations in the repA C–terminal region of plasmid Rts1: pleiotropic effects on the replication and autorepressor functions. Zeng H, et al. **J Bacteriol** 1990 May;172(5):2535–40

DNA sequences from Saccharomycopsis fibuligera capable of autonomous replication in Saccharomyces cerevisiae. Jurský F, et al. **J Basic Microbiol** 1990;30(4):301–4

Purification and characterization of an initiation protein for chromosomal replication, DnaA, in Bacillus subtilis. Fukuoka T, et al. **J Biochem (Tokyo)** 1990 May; 107(5):732–9

Poly(ADP–ribosylated) histones in chromatin replication. Boulikas T. **J Biol Chem** 1990 Aug 25;265(24):14638–47

Alterations in the phosphorylation and activity of DNA polymerase alpha correlate with the change in replicative DNA synthesis as quiescent cells re–enter the cell cycle. Cripps–Wolfman J, et al. **J Biol Chem** 1989 Nov 25; 264(33):19478–86

Murine DNA polymerase.alpha–primase initiates RNA–primed DNA synthesis preferentially upstream of a 3′–CC(C/A)–5′ motif. Davey SK, et al. **J Biol Chem** 1990 Mar 5;265(7):3611–4

Murine DNA polymerase alpha fills gaps to completion in a direct assay. Altered kinetics of de novo DNA synthesis at single nucleotide gaps. Davey SK, et al. **J Biol Chem** 1990 Mar 5;265(7):4098–104

Nucleoprotein structures initiating DNA replication, transcription, and site–specific recombination. Echols H. **J Biol Chem** 1990 Sep 5;265(25):14697–700 (54 ref.)

Isolation of temperature–sensitive cell cycle mutants from mouse FM3A cells. Characterization of mutants with special reference to DNA replication. Eki T, et al. **J Biol Chem** 1990 Jan 5;265(1):26–33

The primary structure of the 32–kDa subunit of human replication protein A. Erdile LF, et al. **J Biol Chem** 1990 Feb 25;265(6):3177–82

Role of leader peptide synthesis in repZ gene expression of the ColIb–P9 plasmid. Hama C, et al. **J Biol Chem** 1990 Jun 25;265(18):10666–73

Localization of DNA repair synthesis by human cell extracts to a short region at the site of a lesion [published erratum appears in J Biol Chem 1990 Mar 5;265(7):4172] Hansson J, et al. **J Biol Chem** 1989 Dec 25;264(36):21788–92

Incorporation of 2–halogeno–2′–deoxyadenosine 5–triphosphates into DNA during replication by human polymerases alpha and beta. Hentosh P, et al. **J Biol Chem** 1990 Mar 5;265(7):4033–40

Purification of a DNA replication terminus (ter) site–binding protein in Escherichia coli and identification of the structural gene. Hidaka M, et al. **J Biol Chem** 1989 Dec 15;264(35):21031–7

Transcriptional mapping of a DNA replication gene cluster in bacteriophage T4. Sites for initiation, termination, and mRNA processing. Hsu T, et al. **J Biol Chem** 1990 Mar 25;265(9):5303–16

Processing of the primer for plus strand DNA synthesis by human immunodeficiency virus 1 reverse transcriptase. Huber HE, et al. **J Biol Chem** 1990 Jun 25;265(18):10565–73

"Macromolecular crowding": thermodynamic consequences for protein–protein interactions within the T4 DNA replication complex. Jarvis TC, et al. **J Biol Chem** 1990 Sep 5;265(25):15160–7

The role of human single–stranded DNA binding protein and its individual subunits in simian virus 40 DNA replication. Kenny MK, et al. **J Biol Chem** 1990 May 5; 265(13):7693–700

Physical interactions between bacteriophage and Escherichia coli proteins required for initiation of lambda DNA replication. Liberek K, et al. **J Biol Chem** 1990 Feb 25; 265(6):3022–9

Host virus interactions in the initiation of bacteriophage lambda DNA replication. Recruitment of Escherichia coli DnaB helicase by lambda P replication protein. Mallory JB, et al. **J Biol Chem** 1990 Aug 5;265(22):13297–307

Roles of phi X174 type primosome– and G4 type primase–dependent primings in initiation of lagging and leading strand syntheses of DNA replication. Masai H, et al. **J Biol Chem** 1990 Sep 5;265(25):15124–33

The ABC–primosome. A novel priming system employing dnaA, dnaB, dnaC, and primase on a hairpin containing a dnaA box sequence. Masai H, et al. **J Biol Chem** 1990 Sep 5;265(25):15134–44

DNA primase stimulatory factor from mouse FM3A cells has an RNase H activity. Purification of the factor and analysis of the stimulation. Masutani C, et al. **J Biol Chem** 1990 Jun 25;265(18):10210–6

The UvsY protein of bacteriophage T4 modulates recombination–dependent DNA synthesis in vitro. Morrical SW, et al. **J Biol Chem** 1990 Sep 5; 265(25):15096–103

Covalent association of the traI gene product of plasmid RP4 with the 5′–terminal nucleotide at the relaxation nick site. Pansegrau W, et al. **J Biol Chem** 1990 Jun 25; 265(18):10637–44

Mitochondrial DNA copy number is proportional to total cell DNA under a variety of growth conditions. Shay JW, et al. **J Biol Chem** 1990 Sep 5;265(25):14802–7

Processive replication is contingent on the exonuclease subunit of DNA polymerase III holoenzyme. Studwell PS, et al. **J Biol Chem** 1990 Jan 15;265(2):1171–8

In vitro studies of the initiation of staphylococcal plasmid replication. Specificity of RepD for its origin (oriD) and characterization of the Rep–ori tyrosyl ester intermediate [published erratum appears in J Biol Chem 1990 Jul 25;265(21):12749] Thomas CD, et al. **J Biol Chem** 1990 Apr 5;265(10):5519–30

Deletion analysis of the mini–P1 plasmid origin of replication

and the role of Escherichia coli DnaA protein. Wickner S, et al. J Biol Chem 1990 Jul 15;265(20):11622–7
Fate of the DnaA initiator protein in replication at the origin of the Escherichia coli chromosome in vitro. Yung BY, et al. J Biol Chem 1990 Jan 25;265(3):1282–5
Specificity of RepC protein in plasmid pT181 DNA replication. Zock JM, et al. J Biol Chem 1990 Feb 25; 265(6):3484–8
Differential DNase I sensitivity of the two complementary nucleosomal DNA strands in cycloheximide–treated Ehrlich ascites tumor cells. Chipev CC, et al. J Biomol Struct Dyn 1987 Jun;4(6):1065–77
On the processivity of DNA replication. Fairfield FR, et al. J Biomol Struct Dyn 1983 Dec;1(3):715–27
Differential repair and replication of damaged DNA in ribosomal RNA genes in different CHO cell lines. Wauthier EL, et al. J Cell Biochem 1990 Jun;43(2):173–83
Multiple replication origins are used during Drosophila chorion gene amplification. Heck MM, et al. J Cell Biol 1990 Apr;110(4):903–14
Inhibition of replicon cluster ligation into chromosomal DNA at elevated temperatures. Warters RL, et al. J Cell Physiol 1990 Feb;142(2):365–71
Fine–structural aspects of bromodeoxyuridine incorporation in sister chromatid differentiation and replication banding. Jack EM, et al. J Cell Sci 1989 Oct;94 (Pt 2):287–97
Replication occurs at discrete foci spaced throughout nuclei replicating in vitro. Mills AD, et al. J Cell Sci 1989 Nov; 94 (Pt 3):471–7
Injection of Xenopus eggs before activation, achieved by control of extracellular factors, improves plasmid DNA replication after activation. Wangh LJ. J Cell Sci 1989 May; 93 (Pt 1):1–8
Nuclear structure and the control of DNA replication in the Xenopus embryo. Blow JJ, et al. J Cell Sci Suppl 1989; 12:183–95
DNA replication and cell cycle control in Xenopus egg extracts. Hutchison CJ, et al. J Cell Sci Suppl 1989; 12:197–212
On the coupling between DNA replication and mitosis. Newport J, et al. J Cell Sci Suppl 1989;12:149–60
Cellular and viral control of the initiation of DNA replication. Roberts JM, et al. J Cell Sci Suppl 1989; 12:171–82
A breakdown in macromolecular synthesis preceding differentiation in Streptomyces coelicolor A3(2). Granozzi C, et al. J Gen Microbiol 1990 Apr;136 (Pt 4):713–6
Human papillomavirus type 16 DNA expresses a replication modulation factor in cos–1 cells. Hecht EM, et al. J Gen Virol 1990 Aug;71 (Pt 8):1823–8
Adenovirus subviral particles and cores can support limited DNA replication. Leith IR, et al. J Gen Virol 1989 Dec; 70 (Pt 12):3235–48
The monomer covalently closed linear replicative form DNA is an intermediate of Aleutian disease parvovirus DNA replication. Löchelt M, et al. J Gen Virol 1990 Mar;71 (Pt 3):541–9
Susceptibility of Brassica species to cauliflower mosaic virus infection is related to a specific stage in the virus multiplication cycle. Saunders K, et al. J Gen Virol 1990 Aug;71 (Pt 8):1641–7
Two binding sites for the herpes simplex virus type 1 UL9 protein are required for efficient activity of the oriS replication origin. Weir HM, et al. J Gen Virol 1990 Jun; 71 (Pt 6):1379–85
Latent and replicating forms of Epstein–Barr virus DNA in lymphomas and lymphoproliferative diseases. Katz BZ, et al. J Infect Dis 1989 Oct;160(4):589–98
The switch between latency and replication of Epstein–Barr virus. Miller G. J Infect Dis 1990 May;161(5):833–44 (49 ref.)
Characterization of the early steps of herpes simplex virus replication in interferon–treated human cells. Oberman F, et al. J Interferon Res 1989 Oct;9(5):563–71
Initiation of replication of plasmid pLS1. The initiator protein RepB acts on two distant DNA regions. de la Campa AG, et al. J Mol Biol 1990 May 20;213(2):247–62
Replication enhancer–independent mutation increases the co–operativity with which an initiator protein binds its origin. Greenstein D, et al. J Mol Biol 1990 Jan 5; 211(1):91–101
T–antigen is not bound to the replication origin of the simian virus 40 late transcription complex. Hadlock KG, et al. J Mol Biol 1990 Sep 5;215(1):53–65
Plasmid and chromosomal DNA replication and partitioning during the Caulobacter crescentus cell cycle. Marczynski GT, et al. J Mol Biol 1990 Apr 20;212(4):709–22
DNA replication in Escherichia coli is initiated by membrane detachment of oriC. A model. Norris V. J Mol Biol 1990 Sep 5;215(1):67–71
DNA polymerase from Sulfolobus acidocaldarius. Replication at high temperature of long stretches of single–stranded DNA. Salhi S, et al. J Mol Biol 1989 Oct 20;209(4):635–44
DNA replication studies with coliphage 186. III. A single phage gene is required for phage 186 replication. Sivaprasad AV, et al. J Mol Biol 1990 Jun 5;213(3):449–63
Control of ColE1 plasmid replication. Interaction of Rom protein with an unstable complex formed by RNA I and RNA II. Tomizawa J. J Mol Biol 1990 Apr 20; 212(4):695–708
Control of ColE1 plasmid replication. Intermediates in the binding of RNA I and RNA II. Tomizawa J. J Mol Biol 1990 Apr 20;212(4):683–94
Deletion of sites for initiation of DNA synthesis in the origin of broad host–range plasmid R1162. Zhou HS, et al. J Mol Biol 1990 Aug 5;214(3):685–97
Compartmentation of deoxypyrimidine nucleotides for nuclear DNA replication in S phase mammalian cells. Reddy GP. J Mol Recognit 1989 Sep;2(2):75–83
On the kinetics of plasmid replication. Keasling JD, et al. J Theor Biol 1989 Feb 22;136(4):487–92
A model for the initiation of replication in Escherichia coli. Mahaffy JM, et al. J Theor Biol 1989 Oct 23;140(4):453–77
Interconversion of replication and recombination structures: implications for terminal repeats and concatemers. Morgan AR, et al. J Theor Biol 1990 May 22;144(2):195–202
A fractal model of chromosomes and chromosomal DNA replication. Takahashi M. J Theor Biol 1989 Nov 8; 141(1):117–36 (95 ref.)
A model of chromatin–dependent DNA replication sequences based on the decondensation units hypothesis. Takahashi M. J Theor Biol 1989 Feb 22;136(4):427–65 (150 ref.)
Intrahepatic HBVDNA replication and gene products expression correlated with foci of hepatic necrosis. Zhang YY, et al. J Tongji Med Univ 1990;10(1):10–4
Morphology, distribution and its significance of intrahepatic HBV DNA in liver disease: a study by in situ hybridization. Zhang YY, et al. J Tongji Med Univ 1989;9(4):204–9
Requirements for species–specific papovavirus DNA replication. Bennett ER, et al. J Virol 1989 Dec; 63(12):5371–85
Programmed factor binding to simian virus 40 GC–box replication and transcription control sequences. Buchanan RL, et al. J Virol 1990 Jan;64(1):347–53
Replication–dependent transactivation of the polyomavirus late promoter. Cahill KB, et al. J Virol 1990 Mar; 64(3):992–1001
Simian virus 40 DNA replication correlates with expression of a particular subclass of T antigen in a human glial cell line. Deminie CA, et al. J Virol 1990 Aug;64(8):3760–9
Topoisomerase II cleavage of herpes simplex virus type 1 DNA in vivo is replication dependent. Ebert SN, et al. J Virol 1990 Sep;64(9):4059–66
In vitro–synthesized hepatitis delta virus RNA initiates genome replication in cultured cells. Glenn JS, et al. J Virol 1990 Jun;64(6):3104–7
cis–active elements from mouse chromosomal DNA suppress simian virus 40 DNA replication. Hartl M, et al. J Virol 1990 Jun;64(6):2884–94
The adeno–associated virus rep gene suppresses herpes simplex virus–induced DNA amplification. Heilbronn R, et al. J Virol 1990 Jun;64(6):3012–8
Synthesis of hepadnavirus particles that contain replication–defective duck hepatitis B virus genomes in cultured HuH7 cells. Horwich AL, et al. J Virol 1990 Feb; 64(2):642–50
Replication–dependent activation of the adenovirus major late promoter is mediated by the increased binding of a transcription factor to sequences in the first intron. Jansen–Durr P, et al. J Virol 1989 Dec;63(12):5124–32
Quantitative polymerase chain reaction analysis of herpes simplex virus DNA in ganglia of mice infected with replication–incompetent mutants. Katz JP, et al. J Virol 1990 Sep;64(9):4288–95
Simian virus 40 large T–antigen–dependent DNA replication is activated by protein phosphatase 2A in vitro. Lawson R, et al. J Virol 1990 May;64(5):2380–3
Mutation of lysine 405 to serine in the parvovirus H–1 NS1 abolishes its functions for viral DNA replication, late promoter trans activation, and cytotoxicity. Li X, et al. J Virol 1990 Oct;64(10):4654–60
Plasmid origin of replication of herpesvirus papio: DNA sequence and enhancer function. Loeb DD, et al. J Virol 1990 Jun;64(6):2876–83
Template switching by reverse transcriptase during DNA synthesis. Luo GX, et al. J Virol 1990 Sep;64(9):4321–8
Mutation of the serine 312 phosphorylation site does not alter the ability of mouse p53 to inhibit simian virus 40 DNA replication in vivo. Meek DW, et al. J Virol 1990 Apr; 64(4):1734–44
cis–acting sequences that control the level of viral DNA synthesis in the polyomavirus late region. Melucci–Vigo G, et al. J Virol 1989 Nov;63(11):4979–81
Three domains in the simian virus 40 core origin orchestrate the binding, melting, and DNA helicase activities of T antigen. Parsons R, et al. J Virol 1990 Feb;64(2):509–18
A DNA replication–positive mutant of simian virus 40 that is defective for transformation and the production of infectious virions. Peden KW, et al. J Virol 1990 Jun; 64(6):2912–21
Herpes simplex virus DNA synthesis at a preformed replication fork in vitro. Rabkin SD, et al. J Virol 1990 Oct;64(10):4957–67
Mutational analysis of bovine papillomavirus type 1 E5 peptide domains involved in induction of cellular DNA synthesis. Rawls JA, et al. J Virol 1989 Nov;63(11):4962–4
Accumulation of human immunodeficiency virus type 1 DNA in T cells: results of multiple infection events. Robinson HL, et al. J Virol 1990 Oct;64(10):4836–41
Genetic analysis of the enhancer requirements for polyomavirus DNA replication in mice. Rochford R, et al. J Virol 1990 Feb;64(2):476–85
Topoisomerase I and II cleavage of adenovirus DNA in vivo: both topoisomerase activities appear to be required for adenovirus DNA replication. Schaack J, et al. J Virol 1990 Jan;64(1):78–85
Identification and characterization of the woodchuck hepatitis virus origin of DNA replication. Seeger C, et al. J Virol 1990 Jan;64(1):16–23
Analysis of the Epstein–Barr virus origin of plasmid replication (oriP) reveals an area of nucleosome sparing that spans the 3' dyad. Sexton CJ, et al. J Virol 1989 Dec; 63(12):5505–8
Analysis of E1A–mediated growth regulation functions: binding of the 300–kilodalton cellular product correlates with E1A enhancer repression function and DNA synthesis–inducing activity. Stein RW, et al. J Virol 1990 Sep;64(9):4421–7
Assembly of nascent DNA into nucleosome structures in simian virus 40 chromosomes by HeLa cell extract. Sugasawa K, et al. J Virol 1990 Oct;64(10):4820–9
Simian virus 40 T antigen can transcriptionally activate and mediate viral DNA replication in cells which lack the retinoblastoma susceptibility gene product. Trifillis P, et al. J Virol 1990 Mar;64(3):1345–7
Topoisomerase I sites cluster asymmetrically at the ends of the simian virus 40 core origin of replication. Tsui S, et al. J Virol 1989 Dec;63(12):5175–83
Postreplication repair of DNA in mammalian cells. Lehmann AR. Life Sci 1974 Dec 15;15(12):2005–16 (68 ref.)
DNA replication in transplanted and endogenous pancreatic islets of obese–hyperglycemic mice at different stages of the syndrome. Andersson A, et al. Metabolism 1989 Oct; 38(10):974–8
Arrest of DNA replication of macrophages in BCG granuloma and peritoneal exudates by bacteria. Kutsukake H, et al. Microbiol Immunol 1990;34(2):197–210
Replication of plasmids in gram–negative bacteria. Kües U, et al. Microbiol Rev 1989 Dec;53(4):491–516 (372 ref.)
Errors and alternatives in reading the universal genetic code. Parker J. Microbiol Rev 1989 Sep;53(3):273–98 (338 ref.)
Genetic instability in streptomycetes. Cullum J, et al. Microbiol Sci 1988 Aug;5(8):233–5 (15 ref.)
DNA replication of plasmids from gram–positive bacteria in Bacillus subtilis. Plasmid pUB110 as a model system. Alonso JC. Microbiologia 1989 Jun;5(1):5–12 (42 ref.)
Studies on the replication of bacteriophage Cp–1 DNA in Streptococcus pneumoniae. García E, et al. Microbiologia 1986 Oct;2(2):115–20
Evidence for rolling–circle replication in a major satellite DNA from the South American rodents of the genus Ctenomys. Rossi MS, et al. Mol Biol Evol 1990 Jul; 7(4):340–50
DNA replication of herpesviruses during the lytic phase of their life–cycles. Hammerschmidt W, et al. Mol Biol Med 1990 Feb;7(1):45–57 (105 ref.)
N–methyl–N–nitrosourea–induced mutations in a shuttle plasmid replicated in human cells. Sikpi MO, et al. Mol Carcinog 1990;3(1):30–6
Drosophila scaffold–attached regions bind nuclear scaffolds and can function as ARS elements in both budding and fission yeasts. Amati B, et al. Mol Cell Biol 1990 Oct; 10(10):5442–54
ARS binding factor I of the yeast Saccharomyces cerevisiae binds to sequences in telomeric and nontelomeric autonomously replicating sequences. Biswas SB, et al. Mol Cell Biol 1990 Feb;10(2):810–5
Studies of an 800–kilobase DNA stretch of the Drosophila X chromosome: comapping of a subclass of scaffold–attached regions with sequences able to replicate autonomously in Saccharomyces cerevisiae. Brun C, et al. Mol Cell Biol 1990 Oct;10(10):5455–63
A yeast ARS–binding protein activates transcription synergistically in combination with other weak activating factors. Buchman AR, et al. Mol Cell Biol 1990 Mar; 10(3):887–97
Activation and repression of a beta–globin gene in cell hybrids is accompanied by a shift in its temporal replication. Dhar V, et al. Mol Cell Biol 1989 Aug;9(8):3524–32
RPO41–independent maintenance of [rho–] mitochondrial DNA in Saccharomyces cerevisiae. Fangman WL, et al. Mol Cell Biol 1990 Jan;10(1):10–5
Position effects on the timing of replication of chromosomally integrated simian virus 40 molecules in Chinese hamster cells. Gilbert DM, et al. Mol Cell Biol 1990 Aug; 10(8):4345–55
Simian virus 40 origin auxiliary sequences weakly facilitate T–antigen binding but strongly facilitate DNA unwinding. Gutierrez C, et al. Mol Cell Biol 1990 Apr;10(4):1719–28
Interaction of the H4 autonomously replicating sequence core consensus sequence and its 3'–flanking domain. Holmes SG, et al. Mol Cell Biol 1989 Dec;9(12):5464–72
Perturbation of DNA replication and cell cycle progression by commonly used [3H]thymidine labeling protocols. Hoy CA, et al. Mol Cell Biol 1990 Apr;10(4):1584–92
Reversion of autonomously replicating sequence mutations in Saccharomyces cerevisiae: creation of a eucaryotic replication origin within procaryotic vector DNA. Kipling D, et al. Mol Cell Biol 1990 Jan;10(1):265–72
The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis–acting element and a plasmid–encoded trans–acting factor. Leiting B, et al. Mol Cell Biol 1990 Jul;10(7):3727–36
Multiple origins of replication in the dihydrofolate reductase

amplicons of a methotrexate-resistant chinese hamster cell line. Ma C, et al. **Mol Cell Biol** 1990 Apr;10(4):1338–46

Properties of the DNA-binding domain of the simian virus 40 large T antigen. McVey D, et al. **Mol Cell Biol** 1989 Dec;9(12):5525–36

A growth arrest-specific (gas) gene codes for a membrane protein. Manfioletti G, et al. **Mol Cell Biol** 1990 Jun; 10(6):2924–30

Minimal subenhancer requirements for high-level polyomavirus DNA replication: a cell-specific synergy of PEA3 and PEA1 sites. Rochford R, et al. **Mol Cell Biol** 1990 Sep;10(9):4996–5001

Synthesis and processing of kinetoplast DNA minicircles in Trypanosoma equiperdum. Ryan KA, et al. **Mol Cell Biol** 1989 Aug;9(8):3212–7

Evidence that replication initiates at only some of the potential origins in each oligomeric form of bovine papillomavirus type 1 DNA. Schvartzman JB, et al. **Mol Cell Biol** 1990 Jun;10(6):3078–86

Genetic evidence that acute morphologic transformation, induction of cellular DNA synthesis, and focus formation are mediated by a single activity of the bovine papillomavirus E5 protein. Settleman J, et al. **Mol Cell Biol** 1989 Dec;9(12):5563–72

Induction of transformation and DNA synthesis after microinjection of raf proteins. Smith MR, et al. **Mol Cell Biol** 1990 Jul;10(7):3828–33

Mutational analysis of the consensus sequence of a replication origin from yeast chromosome III. Van Houten JV, et al. **Mol Cell Biol** 1990 Aug;10(8):3917–25

An initiation zone of chromosomal DNA replication located upstream of the c-myc gene in proliferating HeLa cells. Vassilev L, et al. **Mol Cell Biol** 1990 Sep;10(9):4899–904

Mapping an origin of DNA replication at a single-copy locus in exponentially proliferating mammalian cells. Vassilev LT, et al. **Mol Cell Biol** 1990 Sep;10(9):4685–9

Homologous recombination enhancement conferred by the Z-DNA motif d(TG)30 is abrogated by simian virus 40 T antigen binding to adjacent DNA sequences. Wahls WP, et al. **Mol Cell Biol** 1990 Feb;10(2):794–800

Comparison of the CopB systems of plasmids R1 and ColV2-K94: a single base alteration in CopB gene is responsible for the increased copy number of the low copy number plasmid ColV2-K94. Banerjee A, et al. **Mol Gen Genet** 1990 Jan;220(2):320–4

Isolation and nucleotide sequence of an autonomously replicating sequence (ARS) element functional in Candida albicans and Saccharomyces cerevisiae. Cannon RD, et al. **Mol Gen Genet** 1990 Apr;221(2):210–8

Replication of ColE2 and ColE3 plasmids: in vitro replication dependent on plasmid-coded proteins. Itoh T, et al. **Mol Gen Genet** 1989 Oct;219(1–2):249–55

Roles of Escherichia coli heat shock proteins DnaK, DnaJ and GrpE in mini-F plasmid replication. Kawasaki Y, et al. **Mol Gen Genet** 1990 Jan;220(2):277–82

In organello replication and viral affinity of linear, extrachromosomal DNA of the ascomycete Ascobolus immersus. Kempken F, et al. **Mol Gen Genet** 1989 Sep; 218(3):523–30

Methylation strongly enhances DNA bending in the replication origin region of the Escherichia coli chromosome. Kimura T, et al. **Mol Gen Genet** 1989 Oct; 219(1–2):69–74

Chromosome replication pattern in dam mutants of Escherichia coli. Louarn J, et al. **Mol Gen Genet** 1990 Apr; 221(2):291–4

An autonomously replicating sequence from HeLa DNA shows a similar organization to the yeast ARS1 element. Valenzuela MS. **Mol Gen Genet** 1990 Feb;220(3):361–5

Mechanism for induction of adaptive mutations in Escherichia coli. Boe L. **Mol Microbiol** 1990 Apr; 4(4):597–601

The terminus of the Escherichia coli chromosome is flanked by several polar replication pause sites. François V, et al. **Mol Microbiol** 1989 Aug;3(8):995–1002

Constraints in chromosomal inversions in Escherichia coli are not explained by replication pausing at inverted terminator-like sequences. François V, et al. **Mol Microbiol** 1990 Apr;4(4):537–42

Protamine-histone replacement and DNA replication in the male mouse pronucleus. Nonchev S, et al. **Mol Reprod Dev** 1990 Jan;25(1):72–6

Episomal replication of cloned DNA injected into the fertilised ovum of the hen, Gallus domesticus. Sang H, et al. **Mol Reprod Dev** 1989;1(2):98–106

DNA topoisomerases and models of sister-chromatid exchange. Dillehay LE, et al. **Mutat Res** 1989 Nov; 215(1):15–23

Influence of RNA synthesis on DNA-repair replication in human cell extracts. Frosina G, et al. **Mutat Res** 1990 Aug; 244(4):287–93

Repair of single nucleotide DNA mismatches transfected into mammalian cells can occur by short-patch excision. Heywood LA, et al. **Mutat Res** 1990 Jul;236(1):59–66

Cell biology: recipes for replication [news] Alberts BM. **Nature** 1990 Aug 9;346(6284):514–5

In vitro replication through nucleosomes without histone displacement. Bonne-Andrea C, et al. **Nature** 1990 Feb 22; 343(6260):719–26

Yeast replication factor-A functions in the unwinding of the SV40 origin of DNA replication. Brill SJ, et al. **Nature** 1989 Nov 2;342(6245):92–5

Phosphorylation of large tumour antigen by cdc2 stimulates SV40 DNA replication. McVey D, et al. **Nature** 1989 Oct 12;341(6242):503–7

Sequential initiation of lagging and leading strand synthesis by two different polymerase complexes at the SV40 DNA replication origin. Tsurimoto T, et al. **Nature** 1990 Aug 9;346(6284):534–9

Neurogenesis of the peripheral nervous system in Drosophila embryos: DNA replication patterns and cell lineages [published erratum appears in Neuron 1989 Nov;3(5):following 664] Bodmer R, et al. **Neuron** 1989 Jul; 3(1):21–32

O6-methylguanine in the SV40 origin of replication inhibits binding but increases unwinding by viral large T antigen. Bignami M, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):3785–93

Structural and functional analysis of temperature-sensitive mutants of the phage phi 29 DNA polymerase. Blasco MA, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4763–70

Molecular analysis of the replication region of the conjugative Streptococcus agalactiae plasmid pIP501 in Bacillus subtilis. Comparison with plasmids pAM beta 1 and pSM19035. Brantl S, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4783–90

Selective initiation of replication at origin sequences of the rDNA molecule of Physarum polycephalum using synchronous plasmodial extracts. Daniel DC, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8343–62

Conserved DNA structures in origins of replication. Eckdahl TT, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1609–12

Repair synthesis by human cell extracts in DNA damaged by cis- and trans-diamminedichloroplatinum(II). Hansson J, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8073–91

Structural features of the priming signal recognized by primase: mutational analysis of the phage G4 origin of complementary DNA strand synthesis. Hiasa H, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4825–31

Sea urchin egg mitochondrial DNA contains a short displacement loop (D-loop) in the replication origin region. Jacobs HT, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):8949–65

The basidiomycete Lentinus edodes linear mitochondrial DNA plasmid contains a segment exhibiting a high autonomously replicating sequence activity in Saccharomyces cerevisiae. Katayose Y, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1395–400

Sequence-specific functions of the early palindrome domain within the SV40 core origin of replication. Kim YS, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9279–89

Further biochemical characterization of wheat DNA primase: possible functional implication of copurification with DNA polymerase A. Laquel P, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4867–76

Autonomous replication of a DNA fragment containing the chromosomal replication origin of the human c-myc gene. McWhinney C, et al. **Nucleic Acids Res** 1990 Mar 11; 18(5):1233–42

H2A.X. a histone isoprotein with a conserved C-terminal sequence, is encoded by a novel mRNA with both DNA replication type and polyA 3' processing signals. Mannironi C, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9113–26

The effect of replication errors on the mismatch analysis of PCR-amplified DNA. Reiss J, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):973–8

A bovine papillomavirus type-1 (BPV-1) containing plasmid replicates extrachromosomally in Xenopus embryos. Schmid M, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2196

Biochemical and biophysical studies on the folding of the core region of the origin of replication of bacteriophage M13. van Belkum A, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4703–10

Similarity of minus origins of replication and flanking open reading frames of plasmids pUB110, pTB913 and pMV158. van der Lelie D, et al. **Nucleic Acids Res** 1989 Sep 25; 17(18):7283–94

Mapping initiation sites of DNA replication in vivo using polymerase chain reaction amplification of nascent strand segments. Vassilev L, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7693–705

Replication forks are associated with the nuclear matrix. Vaughn JP, et al. **Nucleic Acids Res** 1990 Apr 25; 18(8):1965–9

Sequence limits of DNA strands in the arrest replication fork at the Bacillus subtilis chromosome terminus. Williams NK, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9947–56

The molecular structure of Okazaki fragment r(CGCA)d(AAAAAGCG):d(CGCTTTTTTGCG) in solution. Fujii S, et al. **Nucleic Acids Symp Ser** 1989; (21):67–8

Cloning of the p53-dependent origin of cellular DNA replication. Iguchi-Ariga SM, et al. **Oncogene** 1988 Nov; 3(5):509–15

Mouse p53 blocks SV40 DNA replication in vitro and downregulates T antigen DNA helicase activity. Stürzbecher HW, et al. **Oncogene** 1988 Oct;3(4):405–13

Oncogene v-jun modulates DNA replication. Wasylyk C, et al. **Oncogene** 1990 Jul;5(7):1055–8

DNA methylation and late replication probably aid cell memory, and type I DNA reeling could aid chromosome folding and enhancer function. Riggs AD. **Philos Trans R Soc Lond [Biol]** 1990 Jan 30; 326(1235):285–97

Functional telomere formation in yeast using synthetic C4A2 sequences. Ascenzioni F, et al. **Plasmid** 1990 Jan; 23(1):16–26

Mutational and physiological analyses of plasmid pT181 functions expressing incompatibility. Highlander SK, et al. **Plasmid** 1990 Jan;23(1):1–15

A yeast-Escherichia coli shuttle vector containing the M13 origin of replication. Rhodes N, et al. **Plasmid** 1990 Mar; 23(2):159–62

Initiation of DNA synthesis in the transfer origin region of RK2 by the plasmid-encoded primase: detection using defective M13 phage. Yakobson E, et al. **Plasmid** 1990 Jan; 23(1):80–4

Transmembrane domain of the envelope gene of a polycythemia-inducing retrovirus determines erythropoietin-independent growth. Chung SW, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7957–60

The two functional domains of gamma delta resolvase act on the same recombination site: implications for the mechanism of strand exchange. Dröge P, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5336–40

Overreplication of the origin region in the dnaB37 mutant of Bacillus subtilis: postinitiation control of chromosomal replication. Henckes G, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8660–4

Escherichia coli Tus protein acts to arrest the progression of DNA replication forks in vitro. Hill TM, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2481–5

DNA metabolism gene CDC7 from yeast encodes a serine (threonine) protein kinase. Hollingsworth RE Jr, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6272–6

Retinoblastoma growth suppressor and a 300-kDa protein appear to regulate cellular DNA synthesis. Howe JA, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5883–7

Multiple functions of human single-stranded-DNA binding protein in simian virus 40 DNA replication: single-strand stabilization and stimulation of DNA polymerases alpha and delta. Kenny MK, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9757–61

Escherichia coli replication termination protein impedes the action of helicases. Lee EH, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9104–8

The priA gene encoding the primosomal replicative n' protein of Escherichia coli. Lee EH, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4620–4

Synthesis of DNA containing the simian virus 40 origin of replication by the combined action of DNA polymerases alpha and delta. Lee SH, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7361–5

Sequence-specific and polarized replication termination in vitro: complementation of extracts of tus- Escherichia coli by purified Ter protein and analysis of termination intermediates. MacAllister T, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2828–32

Negative control of plasmid R6K replication: possible role of intermolecular coupling of replication origins. McEachern MJ, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7942–6

Molecular cloning and DNA sequence analysis of Escherichia coli priA, the gene encoding the primosomal protein replication factor Y. Nurse P, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4615–9

Broad spectrum of in vivo forward mutations, hypermutations, and mutational hotspots in a retroviral shuttle vector after a single replication cycle: substitutions, frameshifts, and hypermutations. Pathak VK, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6019–23

Broad spectrum of in vivo forward mutations, hypermutations, and mutational hotspots in a retroviral shuttle vector after a single replication cycle: deletions and deletions with insertions. Pathak VK, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6024–8

Asynchronous replication of homologous loci on human active and inactive X chromosomes. Schmidt M, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3685–9

Spontaneous Kearns-Sayre/chronic external ophthalmoplegia plus syndrome associated with a mitochondrial DNA deletion: a slip-replication model and metabolic therapy. Shoffner JM, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7952–6

Thermal energy suppresses mutational defects in DNA unwinding at a yeast replication origin. Umek RM, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2486–90

A DNA replication enhancer in Saccharomyces cerevisiae. Walker SS, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4665–9

Requirement for two DNA polymerases in the replication of simian virus 40 DNA in vitro. Weinberg DH, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9742–6

Coexpression of the platelet-derived growth factor (PDGF) B chain and the PDGF beta receptor in isolated pancreatic islet cells stimulates DNA synthesis. Welsh M, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5807–11

Three Escherichia coli heat shock proteins are required for P1 plasmid DNA replication: formation of an active complex between E. coli DnaJ protein and the P1 initiator protein. Wickner SH. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2690–4

The insulin receptor with phenylalanine replacing tyrosine-1146 provides evidence for separate signals regulating cellular metabolism and growth. Wilden PA, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3358–62

Pseudomonas chromosomal replication origins: a bacterial class distinct from Escherichia coli–type origins. Yee TW, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1278–82

Genetic differences in follicular DNA synthesis between two strains of hamsters. Roy SK, et al.
Proc Soc Exp Biol Med 1990 Jun;194(2):136–43

Cytogenetics of human sperm: structural aberrations and DNA replication. Brandriff BF, et al.
Prog Clin Biol Res 1990;340B:425–34 (32 ref.)

Effect of accessory proteins on the fidelity of DNA synthesis by eukaryotic replicative polymerases. Roberts JD, et al.
Prog Clin Biol Res 1990;340A:91–100

Formation and repair of DNA–protein crosslinks in newly replicated DNA. Chiu SM, et al. **Radiat Res** 1989 Dec; 120(3):545–51

Genes and the replication cycle of Escherichia coli. Donachie WD, et al. **Res Microbiol** 1990 Jan;141(1):64–75 (68 ref.)

DNA replication in experimental rat bladder tumours: immunohistochemical detection of bromodeoxyuridine labelled nuclei. Langkilde NC, et al.
Scand J Urol Nephrol Suppl 1989;125:133–9

Directed evolution of nucleic acids by independent replication and selection. Abelson J. **Science** 1990 Aug 3; 249(4968):488–9 (12 ref.)

Telomeres and their synthesis. Blackburn EH. **Science** 1990 Aug 3;249(4968):489–90 (21 ref.)

S phase of the cell cycle. Laskey RA, et al. **Science** 1989 Nov 3;246(4930):609–14 (96 ref.)

A novel nucleoprotein complex at a replication origin. Serrano M, et al. **Science** 1990 May 25;248(4958):1012–6

Immunohistochemical detection of DNA replication in mouse uterine cells by bromodeoxyuridine labeling of wax- and resin-embedded tissue sections. Hanazono M, et al. **Stain Technol** 1990;65(3):139–49

Requirements for primary T cell activation. Melton LB, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):331–2

Interaction between cytomegalovirus and Staphylococcus aureus protein A in immunoglobulin secretion and DNA synthesis. Paulin T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2133–4

DNA replication in mouse pancreatic islets transplanted subcapsularly into the kidney or intraportally into the liver. Influence of unilateral nephrectomy or partial hepatectomy. Dunger A, et al. **Transplantation** 1990 Apr; 49(4):686–9

How fixed is the differentiated state? Lessons from heterokaryons. Blau HM. **Trends Genet** 1989 Aug; 5(8):268–72 (56 ref.)

The E. coli dnaA initiation protein: a protein for all seasons. Georgopoulos C. **Trends Genet** 1989 Oct;5(10):319–21 (20 ref.)

Effects of extra- and intracellular calcium concentration on DNA replication, lateral growth, and differentiation of human epidermal cells in culture. Jensen PK, et al.
Virchows Arch [B] 1990;59(1):17–25

Transient expression of B19 parvovirus gene products in COS-7 cells transfected with B19-SV40 hybrid vectors. Beard C, et al. **Virology** 1989 Oct;172(2):659–64

Construction of an infectious genomic clone of porcine parvovirus: effect of the 5'-end on DNA replication. Casal JI, et al. **Virology** 1990 Aug;177(2):764–7

Extracts of hamster cells abortively infected with human adenovirus type 12 are competent to support initiation of viral DNA replication. Chowrira BM, et al. **Virology** 1990 May;176(1):289–91

Analysis of the hamster polyomavirus infection in vitro: host-restricted productive cycle. de la Roche Saint André C, et al. **Virology** 1990 Aug;177(2):532–40

The replication of viral and cellular DNA in human herpesvirus 6-infected cells. Di Luca D, et al. **Virology** 1990 Mar;175(1):199–210

Mutational analysis of single-stranded DNA templates active in the in vitro initiation assay for adenovirus DNA replication. Dobbs L, et al. **Virology** 1990 Sep;178(1):43–51

Expression of the two reovirus S1 gene products in transfected mammalian cells. Fajardo E, et al. **Virology** 1990 Sep;178(1):223–31

Replication of minute virus of mice DNA in adenovirus-infected or adenovirus-transformed cells. Fox E, et al. **Virology** 1990 Jun;176(2):403–12

Effect of human cytomegalovirus on replication of SV40 origin and the expression of T antigen. Pari GS, et al.
Virology 1990 Aug;177(2):824–8

In vivo analysis of the initiation of bacteriophage T7 DNA replication. Rabkin SD, et al. **Virology** 1990 Feb; 174(2):585–92

Analysis of the binding sites for the varicella-zoster virus gene 51 product within the viral origin of DNA replication. Stow ND, et al. **Virology** 1990 Aug;177(2):570–7

A possible approach to enrich cDNA yields with full-length molecules. Zaslavsky V, et al. **Virus Genes** 1990 Jun; 4(1):63–72

Budding efficiency of Sendai virus nucleocapsids: influence of size and ends of the RNA. Mottet G, et al.
Virus Res 1989 Oct;14(2):175–87

Isolation and sequence analysis of a K. lactis chromosomal DNA element able to autonomously replicate in S. cerevisiae and K. lactis. Fabiani L, et al. **Yeast** 1990 Jan–Feb;6(1):69–76

[Replication characteristics of plasmids and their dependence of recA gene for the initiation of Escherichia coli chromosome replication in the integrated state] Mao YM, et al. **I Chuan Hsueh Pao** 1990;17(1):53–62 (Eng. Abstr.) **(Chi)**

[Dependence of the recA gene for the replication of the bacterial chromosome initiated by the integrated F' plasmid in Escherichia coli] Mao YM, et al.
I Chuan Hsueh Pao 1989;16(1):56–66 (Eng. Abstr.) **(Chi)**

[The anchoring of newly synthesized adenovirus DNA to the nuclear matrix] Chen F, et al.
Shih Yen Sheng Wu Hsueh Pao 1990 Jun;23(2):227–32 (Eng. Abstr.) **(Chi)**

[Structure of the DNA replication terminus] Horiuchi T.
Idengaku Zasshi 1988 Aug;63(4):373–92 (35 ref.) **(Jpn)**

[Pattern of DNA replication] Naritomi K. **Rinsho Byori** 1989 Feb;Spec No 80:138–45 **(Jpn)**

[DNA replication and RNA transcription regulated by c-myc protein] Ariga H, et al.
Tanpakushitsu Kakusan Koso 1989 Jul;34(9):1163–74 **(Jpn)**

[DNA replication in mammalian cells] Hanaoka F.
Tanpakushitsu Kakusan Koso 1989 Jul;34(9):1149–62 **(Jpn)**

[Regulation of initiation of chromosomal replication in bacteria; role of DnaA protein and the regulation of its expression in Bacillus subtilis] Ogasawara N, et al.
Tanpakushitsu Kakusan Koso 1989 Jul;34(9):1135–48 **(Jpn)**

[In vitro replication of plasmid pKYM] Okabe H, et al.
Yakugaku Zasshi 1989 Aug;109(8):582–91 (Eng. Abstr.) **(Jpn)**

[The role of protein binding with single-stranded DNA (SSB-protein) in DNA replication in Ehrlich ascites carcinoma cells] Koterov AN, et al. **Biokhimiia** 1990 May; 55(5):911–6 (Eng. Abstr.) **(Rus)**

[Relation between DNA replication and neutral Mn 2+-dependent DNAse activity in chromatin] Vinter VG, et al. **Biokhimiia** 1990 Jan;55(1):109–13 (Eng. Abstr.) **(Rus)**

[Transposon Tn5-induced repair of genetic damage of replication of plasmid RP1 and hybrid derivative of RP1 and RP4 plasmids] Baumanis GE, et al.
Dokl Akad Nauk SSSR 1989;309(2):474–6 **(Rus)**

[Mapping the functional segment of the initiation of replication in the pE194 Staphylococcus aureus plasmid in Bacillus subtilis cells] Khasanov FK.
Dokl Akad Nauk SSSR 1989 Sep–Oct;308(1):208–11 **(Rus)**

[Multiple DNA recognition sites by sequence-specific DNA-binding proteins in the region of replication initiation site located 5-end upstream to the chicken alpha-globin gene domain] Kintsurashvili EG, et al.
Dokl Akad Nauk SSSR 1990 Jan–Feb;310(1):227–8 **(Rus)**

[DNA replication in brain cell nuclei of adult rats following transplantation of embryonal nerve tissue] Kleshchinov VN. **Dokl Akad Nauk SSSR** 1989;309(2):468–70 **(Rus)**

[The role of transposons in replication: Tn5 suppresses ts-mutation for plasmid RP1 replication in Escherichia coli cells] Baumanis GE, et al. **Genetika** 1990 May;26(5):833–41 (Eng. Abstr.) **(Rus)**

[Changes in the duration of replication of the polytene chromosome region during position effect in Drosophila melanogaster] Bol'shakov VN, et al. **Genetika** 1990 May; 26(5):847–55 (Eng. Abstr.) **(Rus)**

[Characteristics of DNA sequences in the sites of permanent attachment to the nuclear matrix located in the vicinity of replication initiation site] Kalandadze AG, et al.
Mol Biol (Mosk) 1989 Sep–Oct;23(5):1309–20 (Eng. Abstr.) **(Rus)**

[Autonomic replication of plasmids containing DNA fragments from rat liver alpha-polymerase complex] Timchenko NA, et al. **Mol Biol (Mosk)** 1990 May–Jun; 24(3):814–23 (Eng. Abstr.) **(Rus)**

[Increased expression of genes coding for replication proteins during the period of DNA synthesis] Zhuchenko OP, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):824–31 (Eng. Abstr.) **(Rus)**

[Suppression of replication and activation of DNA reparative synthesis in stress and prevention of these phenomena by preliminary adaptation] Meerson FZ, et al.
Vopr Med Khim 1989 Jul–Aug;35(4):48–51 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Effects of cytosine arabinoside and hydroxyurea on the synthesis of deoxyribonucleotides and DNA replication in L1210 cells. Matsumoto M, et al. **Adv Enzyme Regul** 1990; 30:47–59

Mechanism of atrial natriuretic factor-induced inhibition of rat mesangial cell mitogenesis. Appel RG.
Am J Physiol 1990 Sep;259(3 Pt 1):E312–8

Increased de novo purine synthesis by insulin through selective enzyme induction in primary cultured rat hepatocytes. Tsuchiya M, et al. **Am J Physiol** 1990 May; 258(5 Pt 1):C841–8

Structural analysis of replicating DNA following exposure to cytotoxic drugs: implications for current models of DNA synthesis in mammalian cells. Stewart BW, et al.
Anticancer Drug Des 1990 Feb;5(1):141–7

Melphalan-induced DNA cross-linking and inhibition of DNA and RNA synthesis in human melanoma and lymphoblast cells. Ringborg U, et al. **Anticancer Res** 1990 Mar–Apr;10(2A):297–301

Comparative activities of several nucleoside analogs against duck hepatitis B virus in vitro. Yokota T, et al.
Antimicrob Agents Chemother 1990 Jul;34(7):1326–30

Mechanism of antiatherogenic action of calcium antagonists. Jackson CL, et al. **Atherosclerosis** 1989 Nov;80(1):17–26

Analysis of bleomycin-resistant DNA synthesis in cells from an inherited human disorder, ataxia telangiectasia. Noda A, et al. **Basic Life Sci** 1990;52:355–9

Parathyroid hormone-related protein is a possible autocrine growth inhibitor for lymphocytes. Adachi N, et al.
Biochem Biophys Res Commun 1990 Feb 14;166(3):1088–94

Pertussis toxin inhibits EGF-, phorbol ester- and insulin-stimulated DNA synthesis in BALB/c3T3 cells: evidence for post-receptor activation of Gi alpha. Crouch MF, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1369–76

Effects of the tyrosine-kinase inhibitor genistein on DNA synthesis and phospholipid-derived second messenger generation in mouse 10T1/2 fibroblasts and rat liver T51B cells. Dean NM, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):795–801

2-Chloroacetaldehyde and 2-chloroacetal are potent inhibitors of DNA synthesis in animal cells. Kandala JC, et al. **Biochem Biophys Res Commun** 1990 Mar 16; 167(2):457–63

Two different mechanisms are involved for the bleomycin-induced DNA repair synthesis in permeabilized HeLa cells. Park IS, et al.
Biochem Biophys Res Commun 1989 Nov 15;164(3):1226–33

Somatostatin analog (SMS 201-995) inhibits the basal and angiotensin II-stimulated 3H-thymidine uptake by rat adrenal glands. Pawlikowski M, et al.
Biochem Biophys Res Commun 1990 Feb 14;166(3):1171–5

Exposure to camptothecin breaks leading and lagging strand simian virus 40 DNA replication forks. Shin CG, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):135–40

Extracellular ATP shows synergistic enhancement of DNA synthesis when combined with agents that are active in wound healing or as neurotransmitters. Wang DJ, et al.
Biochem Biophys Res Commun 1990 Jan 15;166(1):251–8

Effect of linoleic acid hydroperoxide on adenovirus DNA replication. Sasaguri Y, et al. **Biochem Int** 1990;20(1):81–7

Cytotoxic effects of aflatoxin B1 and its association with cellular components in chicken embryo primary cultured cells. Iwaki M, et al. **Biochim Biophys Acta** 1990 Aug 17; 1035(2):146–53

Semiconservative and unscheduled DNA synthesis on mammalian cells and its modification by glyoxylic compounds. Cornago P, et al. **Biochimie** 1989 Nov–Dec; 71(11–12):1205–10

Effect of dimethyl sulfoxide on mouse embryo fibroblasts: inhibition of plasminogen activator inhibitor deposition and interference with early events of serum-stimulated growth. Nagashunmugam T, et al. **Biol Cell** 1989;66(3):307–15

Inhibition of the semiconservative DNA synthesis and potentiation of the unscheduled DNA synthesis by 5-nitroimidazole derivatives with an imidazolium or pyridinium ring. Santos L, et al. **Biomed Biochim Acta** 1989; 48(10):757–64

The effect of chemotherapy on the kinetics and proliferative capacity of normal and tumorous tissues in vivo. Rosenoff SH, et al. **Blood** 1975 Jan;45(1):107–18

Effects of acidic fibroblast growth factor and epidermal growth factor on subconfluent fetal rat calvaria cell cultures: DNA synthesis and alkaline phosphatase activity. Nicolas V, et al. **Bone Miner** 1990 Feb;8(2):145–56

Stimulation of cell growth and DNA synthesis by peripheral benzodiazepine. Ikezaki K, et al. **Cancer Lett** 1990 Feb; 49(2):115–20

Role of asialo-GM1 positive liver cells from athymic nude or polyinosinic-polycytidylic acid-treated mice in suppressing colon-derived experimental hepatic metastasis. Cohen SA, et al. **Cancer Res** 1990 Mar 15;50(6):1834–40

Studies of the mode of action of N-isopropyl-alpha-(2-methylhydrazino)-p-toluamide.
Gale GR, et al. **Cancer Res** 1967 Jul;27(7):1186–91

Mechanisms of inhibition of DNA synthesis by 2-chlorodeoxyadenosine in human lymphoblastic cells. Griffig J, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6923–8

DNA synthesis by L929 cells following doxorubicin exposure. Lanks KW, et al. **Cancer Res** 1990 Aug 1; 50(15):4776–8

Altered formation of DNA in human cells treated with inhibitors of DNA topoisomerase II (etoposide and teniposide). Lönn U, et al. **Cancer Res** 1989 Nov 15; 49(22):6202–7

Drug-induced DNA hypermethylation and drug resistance in human tumors. Nyce J. **Cancer Res** 1989 Nov 1; 49(21):5829–36

Metabolic effects of hydroxyurea on BHK-21 cells transformed with polyoma virus. Pollak RD, et al.
Cancer Res 1967 Jul;27(7):1214–24

Effects of 1-beta-D-arabinofuranosylcytosine on DNA replication intermediates monitored by pH-step alkaline elution. Ross DD, et al. **Cancer Res** 1990 May 1; 50(9):2658–66

DNA synthesis, apoptosis, and phenotypic expression as determinants of growth of altered foci in rat liver during phenobarbital promotion. Schulte-Hermann R, et al.
Cancer Res 1990 Aug 15;50(16):5127–35

Dual mechanisms of inhibition of DNA synthesis by triciribine. Wotring LL, et al. **Cancer Res** 1990 Aug 15; 50(16):4891–9

Aphidicolin-sensitive DNA repair synthesis in human fibroblasts damaged with bleomycin is distinct from UV-induced repair. DiGiuseppe JA, et al. **Carcinogenesis** 1990 Jun;11(6):1021-6

Clustered repair of excisable 4-nitroquinoline-1-oxide adducts in a larger fraction of genomic DNA of xeroderma pigmentosum complementation group C cells. Fujiwara Y. **Carcinogenesis** 1989 Oct;10(10):1777-85

Calcium chloride inhibits stimulation of replicative DNA synthesis by sodium chloride in the pyloric mucosa of rat stomach. Furihata C, et al. **Carcinogenesis** 1989 Nov; 10(11):2135-7

Phospholipase C-mediated hydrolysis of phosphatidylcholine is an important step in PDGF-stimulated DNA synthesis. Larrodera P, et al. **Cell** 1990 Jun 15;61(6):1113-20

Inhibition of DNA synthesis of adult rat hepatocytes in primary culture by dibutyrylcytidine 3', 5'-cyclic monophosphate. Kubin T, et al. **Cell Biol Int Rep** 1989 Nov;13(11):907-17

Induction of DNA replication in mammalian G_1 nuclei by a heat-inactivible component from permeable S phase cells; an assay system. van der Velden HM, et al. **Cell Biol Int Rep** 1989 Nov;13(11):933-40

Beta-lactams act on DNA synthesis in K-562 cells. Cottagnoud P, et al. **Cell Biol Toxicol** 1986 Dec;2(4):523-9

A comparison of the effects of cytosine arabinoside and beta-lactams on DNA synthesis and cellular proliferation. Fram RJ. **Cell Biol Toxicol** 1986 Dec;2(4):531-9 (56 ref.)

Effects of beta-lactams on DNA replication. Hübscher U, et al. **Cell Biol Toxicol** 1986 Dec;2(4):541-8

Activity of 2-acetylaminofluorene as a UDS inducing agent in B6C3F1 mouse hepatocytes in vitro. Lefevre PA, et al. **Cell Biol Toxicol** 1990 Jan;6(1):15-21

Exogenous glutathione induces sister chromatid exchanges, clastogenicity and endoreduplication in V79-E Chinese hamster cells. Thust R, et al. **Cell Biol Toxicol** 1985 Jun; 1(3):123-31

Inhibition of Chinese hamster ovary cell DNA synthesis by hydrogen peroxide. Fiorani M, et al. **Chem Biol Interact** 1990;76(1):129-39

Growth factor-like action of lysophosphatidic acid: mitogenic signalling mediated by G proteins. Moolenaar WH, et al. **Ciba Found Symp** 1990;150:99-106; discussion 106-11

Dissection of the T antigen/mouse p53 complex and its inhibitory effects on viral origin-directed DNA replication in vivo and in vitro. Stürzbecher HW, et al. **Curr Top Microbiol Immunol** 1989;144:55-62

Effects of endothelin-1 on its receptor concentration and thymidine incorporation in calf adrenal zona glomerulosa cells: a comparative study with phorbol esters. Cozza EN, et al. **Endocrinology** 1990 Aug;127(2):549-54

Adenosine has divergent effects on deoxyribonucleic acid synthesis in FRTL5 cells: inhibition of thyrotropin-stimulated and potentiation of insulin-like growth factor-I-stimulated thymidine incorporation. Moses AC, et al. **Endocrinology** 1989 Nov;125(5):2758-65

Epidermal growth factor inhibits radioiodine uptake but stimulates deoxyribonucleic acid synthesis in newborn rat thyroids grown in nude mice. Ozawa S, et al. **Endocrinology** 1990 Aug;127(2):604-12

DNA synthesis in alveolar macrophages and other changes in lavaged cells following exposure of CBA/H mice to cigarette smoke. Hornby SB, et al. **Environ Health Perspect** 1990 Apr;85:107-12

Comparative studies on the genotoxic activity of mainstream smoke condensate from cigarettes which burn or only heat tobacco. Doolittle DJ, et al. **Environ Mol Mutagen** 1990; 15(2):93-105

Potent inhibitory effects of the 5'-triphosphates of (E)-5-(2-bromovinyl)-2'-deoxyuridine and (E)-5-(2-bromovinyl)-1-beta-D-arabinofuranosyluracil on DNA polymerase gamma. Ono K, et al. **Eur J Biochem** 1990 Jul 5;190(3):463-7

Stimulation of DNA synthesis by isoproterenol and its inhibition by actinomycin D. Baserga R, et al. **Exp Cell Res** 1967 Jun;46(3):571-80

Early modifications of nucleic acid metabolism and nuclear lipid biosynthesis associated with antiproliferative activity of interferon-alpha on Daudi lymphoma cells. Miscia S, et al. **Exp Cell Res** 1990 Apr;187(2):197-202

Close relationship between modulation of serum-induced stimulation of DNA synthesis and changes in gap-junctional intercellular communication in quiescent 3T3-L1 cells caused by cyclic AMP and the tumor-promoting phorbol ester TPA. Shiba Y, et al. **Exp Cell Res** 1989 Dec;185(2):535-40

Stimulation of DNA synthesis by an inositol polyphosphate-activated protein phosphatase in calcium-deprived rat liver cells. Zwiller J, et al. **Exp Cell Res** 1990 Apr;187(2):193-6

Replication-linked histone acetylation in rat liver tissue is sensitive to alkylating agents. Talasz H, et al. **FEBS Lett** 1990 May 7;264(1):141-4

Mitogen-induced initiation of DNA synthesis by lymphocytes cultured in serum-free media [letter] Li W, et al. **Immunol Lett** 1990 Jan;23(3):235-6

The effect of gastrointestinal hormones on the incorporation of tritiated thymidine in the pancreatic adenocarcinoma cell line (WD PaCa). Edwards BF, et al. **Int J Pancreatol** 1989 Sep;5(2):191-201

Antagonistic effect of magnesium chloride on the nickel chloride-induced inhibition of DNA replication in Chinese hamster ovary cells. Conway K, et al. **J Biochem Toxicol** 1986 Jun;1(2):11-25

Termination of DNA synthesis by 9-beta-D-arabinofuranosyl-2-fluoroadenine. A mechanism for cytotoxicity. Huang P, et al. **J Biol Chem** 1990 Sep 25;265(27):16617-25

Induction of a calcium/calmodulin-dependent phosphodiesterase during phytohemagglutinin-stimulated lymphocyte mitogenesis. Hurwitz RL, et al. **J Biol Chem** 1990 May 25;265(15):8901-7

Prostaglandin E2 inhibition of growth in a colony-stimulating factor 1-dependent macrophage cell line. Jackowski S, et al. **J Biol Chem** 1990 Apr 25; 265(12):6611-6

Phosphatidic acid modulates DNA synthesis, phospholipase C, and platelet-derived growth factor mRNAs in cultured mesangial cells. Role of protein kinase C. Knauss TC, et al. **J Biol Chem** 1990 Aug 25;265(24):14457-63

Mitogenic and cytotoxic actions of tumor necrosis factor in BALB/c 3T3 cells. Role of phospholipase activation. Palombella VJ, et al. **J Biol Chem** 1989 Oct 25; 264(30):18128-36

Guanosine 5'-O-(3-thiotriphosphate) and guanosine 5'-O-(2-thiodiphosphate) activate G proteins and potentiate fibroblast growth factor-induced DNA synthesis in hamster fibroblasts. Paris S, et al. **J Biol Chem** 1990 Jul 15;265(20):11567-75

Epidermal growth factor-induced selective phosphorylation of cultured rat hepatocyte 55-kD cytokeratin before filament reorganization and DNA synthesis. Baribault H, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1665-76

Caffeine overcomes a restriction point associated with DNA replication, but does not accelerate mitosis. Downes CS, et al. **J Cell Biol** 1990 Jun;110(6):1855-9

Inhibitors of topoisomerases I and II arrest DNA replication, but do not prevent nucleosome assembly in vivo. Annunziato AT. **J Cell Sci** 1989 Aug;93 (Pt 4):593-603

Chicken histone H5 inhibits transcription and replication when introduced into proliferating cells by microinjection. Bergman MG, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):201-9

Growth factor-dependent initiation of DNA replication in nuclei isolated from an interleukin 3-dependent murine myeloid cell line. Munshi NC, et al. **J Clin Invest** 1990 Jan;85(1):300-4

Effect of 3'-azido-3'-deoxythymidine on replication of duck hepatitis B virus in vivo and in vitro. Haritani H, et al. **J Med Virol** 1989 Dec;29(4):244-8

Effects of proflavin and photoactivated proflavin on the template function of single-stranded DNA. Revich GG, et al. **J Mol Biol** 1990 Jan 5;211(1):63-74

Transforming growth factor-beta and gamma-interferon have dual effects on growth of peripheral glia. Eccleston PA, et al. **J Neurosci Res** 1989 Dec;24(4):524-30

Effect of snuff extract on the replication and synthesis of viral DNA and proteins in cells infected with herpes simplex virus. Oh JS, et al. **J Oral Maxillofac Surg** 1990 Apr;48(4):373-9; discussion 380

Involvement of topoisomerases in replication, transcription, and packaging of the linear adenovirus genome. Wong ML, et al. **J Virol** 1990 Feb;64(2):691-9

Similarity in the effect of caffeine on DNA synthesis after UV irradiation between xeroderma pigmentosum variant cells and mouse cells. Yagi T, et al. **Jpn J Cancer Res** 1989 Aug;80(8):754-8

Inhibition of HBV DNA replication by ganciclovir in patients with AIDS [letter] Locarnini S, et al. **Lancet** 1989 Nov 18;2(8673):1225-6

Fibroblast growth factor pretreatment reduces epidermal growth factor-induced proliferation in rat astrocytes. Huff KR, et al. **Life Sci** 1989;45(17):1515-20

An inhibitory effect of RGD peptide on protein-priming reaction of bacteriophages phi 29 and M2. Kobayashi H, et al. **Mol Gen Genet** 1989 Dec;220(1):8-11

Relationship of deoxynucleotide changes to inhibition of DNA synthesis induced by the antiretroviral agent 3'-azido-3'-deoxythymidine and release of its monophosphate by human lymphoid cells (CCRF-CEM). Fridland A, et al. **Mol Pharmacol** 1990 May;37(5):665-70

Potent DNA chain termination activity and selective inhibition of human immunodeficiency virus reverse transcriptase by 2',3'-dideoxyuridine-5'-triphosphate. Hao Z, et al. **Mol Pharmacol** 1990 Feb;37(2):157-63

Biochemical and cytogenetical characterization of Chinese hamster ovary X-ray-sensitive mutant cells xrs 5 and xrs 6. VI. The correlation between UV-induced DNA lesions and chromosomal aberrations, and their modulations with inhibitors of DNA repair synthesis. Darroudi F, et al. **Mutat Res** 1990 Mar;235(2):129-35

Unscheduled DNA synthesis after treatment with 20-methylcholanthrene and N-nitrosodimethylamine in primary culture of human gallbladder epithelial cells. Miyazaki K, et al. **Mutat Res** 1990 Mar;235(2):81-4

Differences between survival, mutagenicity and DNA replication in MMS- and MNU-treated V79 hamster cells. Slameňová D, et al. **Mutat Res** 1990 Jan;228(1):97-103

Inhibition of DNA synthesis and cytotoxic effects of some DNA topoisomerase II and gyrase inhibitors in Chinese hamster V79 cells. Suciu D. **Mutat Res** 1990 Mar; 243(3):213-8

Effect of inhibition of DNA synthesis on recovery of X-irradiated L5178Y-S cells. I. Aphidicolin. Kapiszewska M, et al. **Neoplasma** 1989;36(5):557-64

Effect of inhibition of DNA synthesis on recovery of X-irradiated L5178Y-S cells, II. 9-beta-D-arabinofuranosyladenine. Kapiszewska M, et al. **Neoplasma** 1989;36(5):565-72

Inhibition of simian virus 40 DNA replication in CV-1 cells by an oligodeoxynucleotide covalently linked to an intercalating agent. Birg F, et al. **Nucleic Acids Res** 1990 May 25;18(10):2901-8

Comparison of effects of fostriecin, novobiocin, and camptothecin, inhibitors of DNA topoisomerases, on DNA replication and repair in human cells. Gedik CM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1007-13

Does butylphenyl-deoxyguanosine triphosphate differentially inhibit DNA polymerase alpha and delta activities in permeabilized HeLa cells? Jackson DA. **Nucleic Acids Res** 1990 Feb 25;18(4):753-8

Mechanism of inhibition of adenovirus DNA replication by the acyclic nucleoside triphosphate analogue (S)-HPMPApp: influence of the adenovirus DNA binding protein. Mul YM, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):8917-29

A tumor promoting phorbol ester, TPA, enhances polyomavirus DNA replication by activating the function of the viral enhancer. Murakami Y, et al. **Oncogene** 1990 Jan;5(1):5-13

Extracellular ATP is a mitogen for 3T3, 3T6, and A431 cells and acts synergistically with other growth factors. Huang N, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7904-8

The insulin receptor as a transmitter of a mitogenic signal in Chinese hamster ovary CHO-K1 cells. Mamounas M, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9294-8

Inhibition of the replication of hepatitis B virus by the carbocyclic analogue of 2'-deoxyguanosine. Price PM, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8541-4

Pasteurella multocida toxin: potent mitogen for cultured fibroblasts. Rozengurt E, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):123-7

Tenascin, an extracellular matrix protein, exerts immunomodulatory activities. Rüegg CR, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7437-41

Glutathione regulates activation-dependent DNA synthesis in highly purified normal human T lymphocytes stimulated via the CD2 and CD3 antigens. Suthanthiran M, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3343-7

Bovine placental lactogen stimulates DNA synthesis of bovine mammary tissue maintained in athymic nude mice. Vega JR, et al. **Proc Soc Exp Biol Med** 1989 Nov; 192(2):135-9

Effects of amiloride on the induction of DNA synthesis and casein gene expression in rabbit mammary explants. Martel P, et al. **Reprod Nutr Dev** 1990;30(1):85-90

PDGF-induced activation of phospholipase C is not required for induction of DNA synthesis. Hill TD, et al. **Science** 1990 Jun 29;248(4963):1660-3

Relative mitogenic activities of various estrogens and antiestrogens. Stack G, et al. **Steroids** 1989 Aug; 54(2):227-43

Sensitivity of intracellular signals responsible for cell cycle progression to cyclosporine. Kimball PM, et al. **Transplantation** 1990 Jan;49(1):186-91

5-Azacytidine-resistant mutants of Chlorella virus IL-3A. Burbank DE, et al. **Virology** 1990 May;176(1):311-5

GENETICS

Localization of the human A1S9 gene complementing the ts A1S9 mouse L-cell defect in DNA replication and cell cycle progression to Xp11.2——p11.4. Zacksenhaus E, et al. **Cytogenet Cell Genet** 1990;53(1):20-2

Mutation of a consensus purine nucleotide binding site in the adeno-associated virus rep gene generates a dominant negative phenotype for DNA replication. Chejanovsky N, et al. **J Virol** 1990 Apr;64(4):1764-70

Defective replication units of hepatitis B virus. Schranz P, et al. **J Virol** 1990 Apr;64(4):1851-4

Time of replication of ARS elements along yeast chromosome III. Reynolds AE, et al. **Mol Cell Biol** 1989 Oct;9(10):4488-94

Errors in DNA synthesis: a source of spontaneous mutations. Loeb LA, et al. **Mutat Res** 1990 May;238(3):297-304 (45 ref.)

Replication of tomato golden mosaic virus DNA B in transgenic plants expressing open reading frames (ORFs) of DNA A: requirement of ORF AL2 for production of single-stranded DNA. Hayes RJ, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10213-22

Mutagenesis of an AUG codon in the adeno-associated virus rep gene: effects on viral DNA replication. Chejanovsky N, et al. **Virology** 1989 Nov;173(1):120-8

Creation of ARS activity in yeast through iteration of non-functional sequences. Zweifel SG, et al. **Yeast** 1990 May-Jun;6(3):179-86

[Human immunodeficiency virus (HIV): a review] Schulz TF, et al. **Z Hautkr** 1990 Jul;65(7):619-22, 625-6, 629-32 (66 ref.) (Eng. Abstr.) (Ger)

[Alu-like sequences in the regions of replication initiation in plasmids p15A and R6K] Korotkov EV. **Izv Akad Nauk SSSR [Biol]** 1990 May-Jun;(3):359-65 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Simple and complex cell cycles. Cross F, et al. **Annu Rev Cell Biol** 1989;5:341–96 (358 ref.)
Initiation of eukaryotic DNA replication in vitro. Stillman B. **Annu Rev Cell Biol** 1989;5:197–245 (345 ref.)
Purification and characterization of primer recognition proteins from HeLa cells. Jindal HK, et al. **Biochemistry** 1990 May 22;29(20):4767–73
Completion of DNA replication is monitored by a feedback system that controls the initiation of mitosis in vitro: studies in Xenopus. Dasso M, et al. **Cell** 1990 Jun 1;61(5):811–23
The replication functions of SV40 T antigen are regulated by phosphorylation. Prives C. **Cell** 1990 Jun 1;61(5):735–8 (24 ref.)
Plasmid and bacteriophage lambda–DNA show differential replication characteristics following injection into fertilized eggs of Xenopus laevis: dependence on period and site of injection. Hofmann A, et al. **Cell Differ Dev** 1990 Apr; 30(1):77–85
Kinetics of the development of accelerated cell–cycle transit resulting from inhibition of DNA replication in the previous cycle. Tolmach LJ, et al. **Cell Tissue Kinet** 1990 Mar;23(2):125–35
Control of DNA replication. Marraccino RL, et al. **Curr Opin Cell Biol** 1990 Apr;2(2):262–8 (43 ref.)
Simultaneous flow cytometric detection of cellular c–myc protein, incorporated bromodeoxyuridine, and DNA. Rosette CD, et al. **Cytometry** 1990;11(4):547–51
Reverse transcriptases and genomic variability: the accuracy of DNA replication is enzyme specific and sequence dependent. Ricchetti M, et al. **EMBO J** 1990 May; 9(5):1583–93
Differential regulation of DNA synthesis in heterokaryons between chicken erythrocytes and culture cells with various proliferative potentials. Prudovsky IA, et al. **Eur J Cell Biol** 1990 Apr;51(2):347–52
Pattern of DNA replication in binucleate cells occurring in mouse embryo cell cultures. Church K. **Exp Cell Res** 1967 Jun;46(3):639–41
DNA synthesis in fore and glandular stomach and in skin after nonspecific stress in mice. Lahtiharju A, et al. **Exp Cell Res** 1967 Jun;46(3):593–6
Aging and defective lymphoid cell activation. Coffman FD, et al. **Exp Gerontol** 1989;24(5–6):437–49 (65 ref.)
Replication control and cellular life span. Jazwinski SM, et al. **Exp Gerontol** 1989;24(5–6):423–36
Analysis of fidelity mechanisms with eukaryotic DNA replication and repair proteins. Kunkel TA, et al. **Genome** 1989;31(1):100–3 (23 ref.)
Effect of the DNA replication velocity on the response of Salmonella typhimurium to mild heating. Mirhabibollahi B, et al. **J Appl Bacteriol** 1990 Jan;68(1):75–80
Conservative segregation of tetrameric units of H3 and H4 histones during nucleosome replication. Yamasu K, et al. **J Biochem (Tokyo)** 1990 Jan;107(1):15–20
DNA polymerase–primase complex in wild–type and ts A1S9 mouse L–cells, temperature–sensitive for DNA replication during cell cycle progression. Munsch N, et al. **J Cell Physiol** 1990 Sep;144(3):531–7
Nuclear localization of 68 kDa calmodulin–binding protein is associated with the onset of DNA replication. Subramanyam C, et al. **J Cell Physiol** 1990 Sep;144(3):423–8
Replication of purified DNA in Xenopus egg extract is dependent on nuclear assembly. Blow JJ, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):383–91
Laryngeal keratinocytes show variable inhibition of replication by TGF–beta. DiLorenzo TP, et al. **J Cell Sci** 1990 May;96 (Pt 1):115–9
Timing of nuclear and kinetoplast DNA replication and early morphological events in the cell cycle of Trypanosoma brucei. Woodward R, et al. **J Cell Sci** 1990 Jan;95 (Pt 1):49–57
Dissociation of senescence–associated changes in differentiated gene expression and replicative senescence in cultured adrenocortical cells. Yang LQ, et al. **J Cell Sci** 1989 Dec;94 (Pt 4):757–68
Identification of the replication terminator protein binding sites in the terminus region of the Bacillus subtilis chromosome and stoichiometry of the binding. Lewis PJ, et al. **J Mol Biol** 1990 Jul 5;214(1):73–84
Nature of the SOS–inducing signal in Escherichia coli. The involvement of DNA replication. Sassanfar M, et al. **J Mol Biol** 1990 Mar 5;212(1):79–96
Analysis of the kinetic hairpin transfer model for parvoviral DNA replication. Tyson JJ, et al. **J Theor Biol** 1990 May 22;144(2):155–69
Fidelity of DNA polymerase I and the DNA polymerase I–DNA primase complex from Saccharomyces cerevisiae. Kunkel TA, et al. **Mol Cell Biol** 1989 Oct;9(10):4447–58
Role of ATP in DNA replication. Majumdar C, et al. **Nature** 1973 May 4;243(5401):33–6
The roles of DNA polymerases alpha and delta in DNA replication. Talanian RV, et al. **Pharmacol Ther** 1990; 47(1):105–15 (143 ref.)
Correlation between DNA synthesis and glucosamine incorporation in human diploid fibroblasts stimulated by fibroblast growth factor and fetal calf serum. Hiu IJ. **Rie Clin Lab** 1989 Jul–Sep;19(3):267–71
[Genetic and biochemical studies on the mechanism of mammalian chromosome replication] Hanaoka F. **Yakugaku Zasshi** 1989 Nov;109(11):802–22 (61 ref.) (Eng. Abstr.) (Jpn)
[The effect of postsynthetic phosphorylation on the structure and function of histone H1 in the chromosomes (minireview)] Jerzmanowski A. **Postepy Biochem** 1989; 35(3):321–8 (15 ref.) (Pol)
[The first cycle of DNA replication in parthenogenetic mouse embryos] Severova EL, et al. **Ontogenez** 1989 Sep–Oct; 20(5):516–24 (Eng. Abstr.) (Rus)
[Skeletal structures of the cell nucleus in the normal state and pathology] Zbarskil IB. **Vestn Akad Med Nauk SSSR** 1990;(2):8–10 (Eng. Abstr.) (Rus)

RADIATION EFFECTS

Action of caffeine on DNA replication after ultraviolet irradiation in Indian muntjac cells: no connection with action on cell cycle delay. Musk SR, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):53–62
Ultraviolet mutagenesis in a plasmid vector replicated in lymphoid cells from patient with the melanoma–prone disorder dysplastic nevus syndrome. Seetharam S, et al. **Cancer Res** 1989 Nov 1;49(21):5918–21
Effects of reoxygenation on cells from hypoxic regions of solid tumors: analysis of transplanted murine tumors for evidence of DNA overreplication. Young SD, et al. **Cancer Res** 1990 Aug 15;50(16):5031–8
Molecular cloning and biological characterization of the human excision repair gene ERCC–3. Weeda G, et al. **Mol Cell Biol** 1990 Jun;10(6):2570–81
DNA–replication recovery inhibition and subsequent reinitiation in UV–radiation–damaged E. coli: a strategy for survival. Doudney CO. **Mutat Res** 1990 Mar; 243(3):179–86
Inhibition of in vitro SV40 DNA replication by ultraviolet light. Gough G, et al. **Mutat Res** 1989 Nov;227(3):193–7
Effect of UV light on DNA replication and chain elongation in Chinese hamster UV61 cells. Griffiths TD, et al. **Mutat Res** 1990 Jul;236(1):51–8
DNA–break repair, radioresistance of DNA synthesis, and camptothecin sensitivity in the radiation–sensitive irs mutants: comparisons to ataxia–telangiectasia cells. Thacker J, et al. **Mutat Res** 1990 Mar;235(2):49–58
Free electron laser irradiation at 200 microns affects DNA synthesis in living cells. Berns MW, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2810–2
[Disruption of DNA replication in non–irradiated cells in basal cell nevus syndrome and the effect of ionizing radiation] Barenfeld LS, et al. **Tsitologiia** 1989 Jul; 31(7):775–84 (Eng. Abstr.) (Rus)
[The action of ionizing radiation on DNA replication in the cells of a healthy human subject and of a patient with Down's syndrome] Barenfel'd LS, et al. **Tsitologiia** 1989 Nov;31(11):1377–84 (Eng. Abstr.) (Rus)

DNA RESTRICTION ENZYME BAMHI see DEOXYRIBONUCLEASE BAMHI

DNA RESTRICTION ENZYME ECORI see DEOXYRIBONUCLEASE ECORI

DNA RESTRICTION ENZYME HINDIII see DEOXYRIBONUCLEASE HINDIII

DNA RESTRICTION ENZYMES

see related
RESTRICTION MAPPING

Restriction enzymes. Ross DW. **Arch Pathol Lab Med** 1990 Aug;114(8):906
A rapid visual method for the identification of 4– or 6–base restriction endonuclease sites. Hodgson CP. **Biotechniques** 1989 Feb;7(2):148–9
Single–step labeling of DNA using restriction endonucleases and T4 polynucleotide kinase. Oommen A, et al. **Biotechniques** 1990 May;8(5):482, 484, 486
Restriction endonuclease fingerprinting analysis of Canadian isolates of Aeromonas salmonicida. McCormick WA, et al. **Can J Microbiol** 1990 Jan;36(1):24–32
Hereditary amyloidosis: detection of variant prealbumin genes by restriction enzyme analysis of amplified genomic DNA sequences. Nichols WC, et al. **Clin Genet** 1990 Jan; 37(1):44–53
Anatomy of human genome by restriction endonucleases AluI, DdeI, HaeIII, HinfI, Mobol and RsaI, and their application in clinical cytogenetics. Babu A, et al. **Cytobios** 1990;62(248):7–19
DNA fingerprinting in the twilight zone. Annas GJ. **Hastings Cent Rep** 1990 Mar–Apr;20(2):35–7
A computer program to assist in the choice of restriction endonucleases for use in DNA analyses. Sands TW, et al. **Int J Biomed Comput** 1990 Jul;26(1–2):39–52
Co–transfer of restriction endonucleases and plasmid DNA into mammalian cells by electroporation: effects on stable transformation. Yorifuji T, et al. **Mutat Res** 1990 Feb; 243(2):121–6
Restriction enzymes and their isoschizomers. Roberts RJ. **Nucleic Acids Res** 1990 Apr 25;18 Suppl:2331–65
ExoMeth sequencing of DNA: eliminating the need for subcloning and oligonucleotide primers. Sorge JA, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9208–12
A simple and rapid method for HLA–DQA1 genotyping by digestion of PCR–amplified DNA with allele specific restriction endonucleases. Maeda M, et al. **Tissue Antigens** 1989 Nov;34(5):290–8

ANALYSIS

Signature patterns of DNA restriction fragments of Helicobacter pylori before and after treatment. Owen RJ, et al. **J Clin Pathol** 1990 Aug;43(8):646–9
Restriction endonuclease analysis of deoxyribonucleic acid (DNA) from genital herpes simplex virus type 2 isolates in Thailand. Chantratita W, et al. **Sex Transm Dis** 1990 Jan–Mar;17(1):42–7

ANTAGONISTS & INHIBITORS

Inhibition of restriction endonuclease hydrolysis by phosphorothioate–containing DNA. Sayers JR, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9495

BIOSYNTHESIS

India: restriction venture. Jayaraman KS. **Nature** 1989 Sep 28;341(6240):272

DIAGNOSTIC USE

Differentiation of vaccine and field strains of bovine herpesvirus type 1 by restriction endonuclease analysis. Hamelin C, et al. **Nippon Juigaku Zasshi** 1990 Jun; 52(3):461–7
A comparison of polypeptides and restriction endonuclease sites of BHV–1 isolates and identification of IPV virus in Japan. Honda E, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1143–9
[Use of restriction enzyme analysis in parasitology] Wandurska–Nowak E. **Wiad Parazytol** 1989;35(4):269–76 (Eng. Abstr.) (Pol)

GENETICS

Prediction of the frequencies of restriction endonuclease recognition sequences using di– and mononucleotide frequencies. Peterson RC. **Biotechniques** 1988 Jan; 6(1):34–40
Characterisation of methicillin–resistant Staphylococcus aureus by biotyping, immunoblotting and restriction enzyme fragmentation patterns. Coia JE, et al. **J Med Microbiol** 1990 Feb;31(2):125–32
Parentage analysis by endonuclease shattering of hypervariable DNA. Chiafari FA, et al. **Transfusion** 1990 Sep;30(7):648–50

ISOLATION & PURIFICATION

[New producers of site–specific endonucleases from microorganisms of the Bacillus genus] Kramarov VM, et al. **Mol Gen Mikrobiol Virusol** 1989 Jun;(6):42–5 (Eng. Abstr.) (Rus)

METABOLISM

Generation of deletion subclones for sequencing by partial digestion with restriction endonucleases. Lamperti ED, et al. **Anal Biochem** 1990 Feb 15;185(1):187–93
Widespread occurrence of specific restriction endonucleases in Salmonella infantis, Salmonella thompson, and Salmonella blockley isolated from humans in Japan. Miyahara M, et al. **Appl Environ Microbiol** 1990 Jul; 56(7):2248–50
Substrate properties of 25–nt parallel–stranded linear DNA duplexes. Rippe K, et al. **Biochemistry** 1989 Nov 28; 28(24):9542–9
O6–methylguanine in place of guanine causes asymmetric single–strand cleavage of DNA by some restriction enzymes. Voigt JM, et al. **Biochemistry** 1990 Feb 13; 29(6):1632–7
Resistance of tumor–derived DNA to restriction enzyme digestion. Parkes JL, et al. **Cancer Invest** 1990;8(2):169–72
Electron microscopy and biochemical analysis of mouse metaphase chromosomes after digestion with restriction endonucleases. Gosálvez J, et al. **Chromosoma** 1990 Apr; 99(1):36–43
Superpolylinkers in cloning and expression vectors. Brosius J. **DNA** 1989 Dec;8(10):759–77
Restriction enzymes have limited access to DNA sequences in Drosophila chromosomes. Jack RS, et al. **EMBO J** 1990 Aug;9(8):2603–9
McrI: a novel class–II restriction endonuclease from Micrococcus cryophilus recognizing 5'–CGRY/CG–3'. Brensing–Küppers J, et al. **FEBS Lett** 1990 May 21; 264(2):218–22
Achilles' heel cleavage: creation of rare restriction sites in lambda phage genomes and evaluation of additional operators, repressors and restriction/modification systems. Grimes E, et al. **Gene** 1990 May 31;90(1):1–7
A cassette with seven unique restriction sites, including octanucleotide sequences: extension of multiple–cloning–site plasmids. Hoheisel JD. **Gene** 1989 Aug 1;80(1):151–4
Isolation of clones on chromosome 7 that contain recognition sites for rare–cutting enzymes by oligonucleotide hybridization. Melmer G, et al. **Genomics** 1990 Jun; 7(2):173–81
Unfixed and fixed human chromosomes show different staining patterns after restriction endonuclease digestion. Peretti D, et al. **Hereditas** 1990;112(2):187–92
AspI, a novel isoschizomer of Tth111I [corrected] from

Achromobacter species 699 recognizing 5'-GACN/NNGTC-3' [published erratum appears in Nucleic Acid Res 1990 Aug 11;18(15):4650] Bolton BJ, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3422

The complete AvrII restriction map of the Escherichia coli genome and comparisons of several laboratory strains. Daniels DL. **Nucleic Acids Res** 1990 May 11;18(9):2649–51

Screening and characterization of restriction endonucleases from a bacterial culture collection in Hong Kong. Leung SM, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10133

Restriction endonuclease from thermophilic bacterial species I. Isolation and characterization of BsiEI. Mok YK, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4954

FseI, a new type II restriction endonuclease that recognizes the octanucleotide sequence 5' GGCCGGCC 3'. Nelson JM, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2061–4

An improved method for partial restriction digestion of ultraviolet irradiated DNA. Nobile C. **Nucleic Acids Res** 1990 Jul 25;18(14):4288

Some restriction endonucleases tolerate single mismatches of the pyrimidine.purine type. Petranović M, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2159–62

Probing of unusual DNA structures in topologically constrained form V DNA: use of restriction enzymes as structural probe. Shouche YS, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):267–75

SgrAI, a novel class-II restriction endonuclease from Streptomyces griseus recognizing the octanucleotide sequence 5'-CR/CCGGYG-3' [corrected] [published erratum appears in Nucleic Acids Res 1990 Aug 25;18(16):4991]. Tautz N, et al. **Nucleic Acids Res** 1990 May 25;18(10):3087

SfuI, a novel AsuII isoschizomer from Streptomyces fulvissimus recognizing 5'-TT/CGAA-3'. Veitinger S, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3424

BbrPI, a novel PmacI isoschizomer from Bacillus brevis recognizing 5'-CAC/GTG-3'. Vesely Z, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3423

BmyI, a novel SduI isoschizomer from Bacillus mycoides recognizing 5'-GDGCH/C-3'. Wagner E, et al. **Nucleic Acids Res** 1990 May 25;18(10):3088

Restriction enzyme SnaBI is sensitive to methylation of cytosine within its recognition sequence. Yang Y, et al. **Nucleic Acids Res** 1990 May 25;18(10):3083

A method for monitoring double restriction cuts within a polylinker. Hermann M, et al. **Res Microbiol** 1990 Feb; 141(2):187–9

New scissors for cutting chromosomes [news] Roberts L. **Science** 1990 Jul 13;249(4965):127

[Sister chromatid exchanges induced by restriction endonucleases] Dong WF, et al. **I Chuan Hsueh Pao** 1988; 15(4):315–20 (Eng. Abstr.) **(Chi)**

[The effect of Z-conformation on enzymatic activity of restriction endonucleases] Lesnik EA, et al. **Mol Biol (Mosk)** 1989 Nov–Dec;23(6):1638–44 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effect of unusual polyamines on cleavage of DNA by restriction enzymes. Kirino H, et al. **J Biochem (Tokyo)** 1990 May;107(5):661–5

Nuclear enzymes, fragile sites, and cancer. Yunis JJ, et al. **J Gerontol** 1989 Nov;44(6):37–44

Increased sensitivity to killing by restriction enzymes in the XR-1 DNA double-strand break repair-deficient mutant. Giaccia AJ, et al. **Mutat Res** 1990 Jul;236(1):67–76

The cytogenetic effects of restriction endonucleases following their introduction into cells by electroporation. Morgan WF, et al. **Prog Clin Biol Res** 1990;340B:355–61

TOXICITY

Interaction between X-ray- and restriction endonuclease-induced lesions in the formation of chromosomal aberrations. Tanzarella C, et al. **Mutat Res** 1990 Jul;244(3):197–200

DNA RESTRICTION ENZYMES, TYPE I see **DEOXYRIBONUCLEASES, TYPE I SITE-SPECIFIC**

DNA RESTRICTION ENZYMES, TYPE II see **DEOXYRIBONUCLEASES, TYPE II SITE-SPECIFIC**

DNA RESTRICTION ENZYMES, TYPE III see **DEOXYRIBONUCLEASES, TYPE III SITE-SPECIFIC**

DNA RESTRICTION-MODIFICATION ENZYMES

ANALYSIS

A general method to optimize the amount of enzyme in restriction and DNA modification reactions using the beta galactosidase blue-white plaques assay. Cab-Barrera EL, et al. **Biotechniques** 1989 Feb;7(2):132–4,136

DIAGNOSTIC USE

Identification of a second "French Canadian" LDL receptor gene deletion and development of a rapid method to detect both deletions. Ma YH, et al. **Clin Genet** 1989 Oct; 36(4):219–28

GENETICS

A mutation that converts serine340 of the HsdSK polypeptide to phenylalanine and its effects on restriction and modification in Escherichia coli K-12. Zinkevich VE, et al. **Gene** 1990 May 31;90(1):125–8

The location of a temperature-sensitive trans-dominant mutation and its effect on restriction and modification in Escherichia coli K12. Hubáček J, et al. **J Gen Microbiol** 1989 Nov;135 (Pt 11):3057–65

Stacking of three different restriction and modification systems in Lactococcus lactis by cotransformation. Josephsen J, et al. **Plasmid** 1990 Jan;23(1):71–5

METABOLISM

[DNA restriction-modification systems] Glatman LI, et al. **Antibiot Khimioter** 1989 Dec;34(12):932–8 (53 ref.) **(Rus)**

DNA, RIBOSOMAL

see related
TRANSCRIPTION, GENETIC

The Cucurbita maxima ribosomal DNA intergenic spacer has a complex structure. Kelly RJ, et al. **Gene** 1989 Aug 15; 80(2):239–48

A minor 9.8 kb rDNA unit of rice variety IR-20. Nandabalan K, et al. **Indian J Biochem Biophys** 1989 Oct;26(5):289–92

Steroid hormone regulation of ribosomal RNA in rat hypothalamus: early detection using in situ hybridization and precursor-product ribosomal DNA probes. Jones KJ, et al. **J Neurosci** 1990 May;10(5):1513–21

E. coli promoter spacer regions contain nonrandom sequences which correlate to spacer length. Beutel BA, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3597–603

ANALYSIS

Comparison of rDNA and mtDNA in the sibling species Anopheles freeborni and A. hermsi. Collins FH, et al. **Am J Trop Med Hyg** 1990 May;42(5):417–23

Primary structure of the non-transcribed spacer region and flanking sequences of the ribosomal DNA of Neurospora crassa and comparison with other organisms. Dutta SK, et al. **Biochem Biophys Res Commun** 1990 Jul 16; 170(1):187–93

Distribution of rDNA and 28S, 18S, and 5S rRNA in micronuclei containing a single chromosome. Labidi B, et al. **Biochem Cell Biol** 1990 Jun;68(6):957–64

Immunolocalization of DNA at nucleolar structural components in onion cells. Martin M, et al. **Chromosoma** 1989 Nov;98(5):368–77

In situ hybridization at the electron microscope level: an improved method for precise localization of ribosomal DNA and RNA. Thiry M, et al. **Eur J Cell Biol** 1989 Oct; 50(1):235–43

Ag-NOR staining and in situ hybridization of rDNA in the chromosomes of the South American camelids. Vidal-Rioja L, et al. **Genetica** 1989;79(3):215–22

Identification of two isolates of Trichinella recovered from humans in France. Dick TA, et al. **J Parasitol** 1990 Feb; 76(1):41–4

Restriction enzyme mapping of ribosomal DNA can distinguish between fasciolid (liver fluke) species. Blair D, et al. **Mol Biochem Parasitol** 1989 Oct;36(3):201–8

Ribosomal DNA-probes differentiate five cryptic species in the Anopheles gambiae complex. Collins FH, et al. **Parassitologia** 1988 May-Dec;30(2-3):231–40

GENETICS

Recombinational controls of rDNA redundancy in Drosophila. Hawley RS, et al. **Annu Rev Genet** 1989; 23:87–120 (131 ref.)

Differentiation of restriction sites in ribosomal DNA in the genus Apodemus. Suzuki H, et al. **Biochem Genet** 1990 Apr; 28(3-4):137–49

Structure of synthetic unmethylated 16S ribosomal RNA as purified RNA and in reconstituted 30S ribosomal subunits. Ericson G, et al. **Biochemistry** 1989 Jul 25;28(15):6446–54

Partial reversion at the bobbed locus of Drosophila melanogaster. Terracol R, et al. **Biol Cell** 1990;68(1):65–71

The excision of intervening sequences from Salmonella 23S ribosomal RNA. Burgin AB, et al. **Cell** 1990 Feb 9; 60(3):405–14

Drosophila ribosomal RNA genes function as an X-Y pairing site during male meiosis. McKee BD, et al. **Cell** 1990 Apr 6;61(1):61–72

A yeast ribosomal DNA-binding protein that binds to the rDNA enhancer and also close to the site of Pol I transcription initiation is not important for enhancer functioning. Kulkens T, et al. **Curr Genet** 1989 Dec; 16(5-6):351–9

A petite positive strain of Kluyveromyces lactis has a 300 kb deletion in the rDNA cluster. Maleszka R, et al. **Curr Genet** 1989 Dec;16(5-6):429–32

Organization of ribosomal RNA genes in Alternaria alternata Japanese pear pathotype, a host-selective AK-toxin-producing fungus. Tsuge T, et al. **Curr Genet** 1989 Oct;16(4):267–72

The ribosomal genes of the mosquito, Aedes aegypti. Gale K, et al. **Eur J Biochem** 1989 Nov 6;185(2):311–7

Electron microscopic in situ hybridization and autoradiography: localization and transcription of rDNA in human lymphocyte nucleoli. Wachtler F, et al. **Exp Cell Res** 1990 Apr;187(2):346–8

Ribosomal DNA is located and transcribed in the dense fibrillar component of human Sertoli cell nucleoli. Wachtler F, et al. **Exp Cell Res** 1989 Sep;184(1):61–71

DNA methylation inhibits transcription by RNA polymerase III of a tRNA gene, but not of a 5S rRNA gene. Besser D, et al. **FEBS Lett** 1990 Sep 3;269(2):358–62

Human ribosomal DNA: conserved sequence elements in a 4.3-kb region downstream from the transcription unit. Dickson KR, et al. **Gene** 1989 Dec 7;84(1):197–200

High-copy-number integration into the ribosomal DNA of Saccharomyces cerevisiae: a new vector for high-level expression. Lopes TS, et al. **Gene** 1989 Jul 15;79(2):199–206

Transcription of human ribosomal DNA may terminate at multiple sites. Sáfrány G, et al. **Gene** 1989 Jul 15; 79(2):299–307

Human ribosomal DNA: novel sequence organization in a 4.5-kb region upstream from the promoter. Sylvester JE, et al. **Gene** 1989 Dec 7;84(1):193–6

Efficient integrative transformation of the phytopathogenic fungus Alternaria alternata mediated by the repetitive rDNA sequences. Tsuge T, et al. **Gene** 1990 Jun 15; 90(2):207–14

Half helical turn spacing changes convert a frog into a mouse rDNA promoter: a distant upstream domain determines the helix face of the initiation site. Pape LK, et al. **Genes Dev** 1990 Jan;4(1):52–62

The occurrence of long ribosomal transcripts homologous to type I insertions in bobbed mutants of Drosophila melanogaster. Makni M, et al. **Genet Res** 1989 Oct; 54(2):127–35

Nucleolar dominance and replicative dominance in Drosophila interspecific hybrids. Goodrich-Young C, et al. **Genetics** 1989 Oct;123(2):349–58

An unusual Y chromosome of Drosophila simulans carrying amplified rDNA spacer without rRNA genes. Lohe AR, et al. **Genetics** 1990 Jun;125(2):399–406

Adding the heterochromatic YL arm to an X chromosome reduces reproductive fitnesses in Drosophila melanogaster: implications for the evolution of rDNA, heterochromatin, and reproductive isolation. Frankham R. **Genome** 1990 Jun; 33(3):340–7

Relative abundance of various rDNA repeat types in polytene nuclei of Drosophila melanogaster. Kalumuck KE, et al. **Genome** 1990 Apr;33(2):240–6

Natural selection and ribosomal DNA in Drosophila. Templeton AR, et al. **Genome** 1989;31(1):296–303 (22 ref.)

Complete human rDNA repeat units isolated in yeast artificial chromosomes. Labella T, et al. **Genomics** 1989 Nov; 5(4):752–60

Genetic selection and DNA sequences of 4.5S RNA homologs. Brown S, et al. **J Bacteriol** 1989 Dec; 171(12):6517–20

Cloning of 18S and 25S rDNAs from the pathogenic fungus Cryptococcus neoformans. Restrepo BI, et al. **J Bacteriol** 1989 Oct;171(10):5596–600

Escherichia coli 4.5S RNA gene function can be complemented by heterologous bacterial RNA genes. Struck JC, et al. **J Bacteriol** 1990 Mar;172(3):1284–8

Rapid genetic identification and mapping of enzymatically amplified ribosomal DNA from several Cryptococcus species. Vilgalys R, et al. **J Bacteriol** 1990 Aug; 172(8):4238–46

Transcription of the 5 S rRNA gene of Saccharomyces cerevisiae requires a promoter element at +1 and a 14-base pair internal control region. Challice JM, et al. **J Biol Chem** 1989 Nov 25;264(33):20060–7

Hormonal regulation of transcription of rDNA. Formation of initiated complexes by RNA polymerase I in vitro. Gokal PK, et al. **J Biol Chem** 1990 Sep 25;265(27):16234–43

Hormonal regulation of transcription of rDNA. The role of TFIC in formation of initiation complexes. Mahajan PB, et al. **J Biol Chem** 1990 Sep 25;265(27):16244–7

Hormonal regulation of transcription of rDNA. Purification and characterization of the hormone-regulated transcription factor IC. Mahajan PB, et al. **J Biol Chem** 1990 Sep 25;265(27):16225–33

A new rearrangement of angiosperm chloroplast DNA in rye (Secale cereale) involving translocation and duplication of the ribosomal rpS15 gene. Prombona A, et al. **J Biol Chem** 1989 Nov 15;264(32):19060–5

Specific transcription of Saccharomyces cerevisiae 35 S rDNA by RNA polymerase I in vitro. Riggs DL, et al. **J Biol Chem** 1990 May 5;265(13):7596–603

Sequence-specific binding of a transcription factor TFID to the promoter region of mouse ribosomal RNA gene. Tanaka N, et al. **J Biol Chem** 1990 Aug 15;265(23):13836–42

Heat shock causes transient inhibition of yeast rRNA gene transcription. Veinot-Drebot LM, et al. **J Biol Chem** 1989 Nov 25;264(33):19473–4

Interaction of a protein with a palindromic sequence from murine rDNA increases the occurrence of amplification-dependent transformation in mouse cells. Wegner M, et al. **J Biol Chem** 1990 Aug 15; 265(23):13925–32

Specific Neisseria gonorrhoeae DNA-probes derived from ribosomal RNA. Rossau R, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1735–45

Conserved sequence elements upstream and downstream from the transcription initiation site of the Caulobacter crescentus rrnA gene cluster. Amemiya K. **J Mol Biol** 1989

Nov 20;210(2):245–54
Type I (R1) and type II (R2) ribosomal DNA insertions of Drosophila melanogaster are retrotransposable elements closely related to those of Bombyx mori. Jakubczak JL, et al. **J Mol Biol** 1990 Mar 5;212(1):37–52
Fourteen internal transcribed spacers in the circular ribosomal DNA of Euglena gracilis. Schnare MN, et al. **J Mol Biol** 1990 Sep 5;215(1):85–91
Yeast precursor ribosomal RNA. Molecular cloning and probing the higher-order structure of the internal transcribed spacer I by kethoxal and dimethylsulfate modification. Thweatt R, et al. **J Mol Biol** 1990 Jan 20; 211(2):305–20
Structural analysis of the internal transcribed spacer 2 of the precursor ribosomal RNA from Saccharomyces cerevisiae. Yeh LC, et al. **J Mol Biol** 1990 Feb 20;211(4):699–712
Nucleotide sequences of the 5.8S rRNA gene and internal transcribed spacer regions in carrot and broad bean ribosomal DNA. Yokota Y, et al. **J Mol Evol** 1989 Oct; 29(4):294–301
Circular DNA of Entamoeba histolytica encodes ribosomal RNA. Bhattacharya S, et al. **J Protozool** 1989 Sep–Oct; 36(5):455–8
Inhibition of rRNA synthesis by poliovirus: specific inactivation of transcription factors. Rubinstein SJ, et al. **J Virol** 1989 Nov;63(11):4689–96
Ribosomal RNA gene (rDNA) distribution in human leukemia cells by in situ hybridization on chromosome. Maeda S, et al. **Kobe J Med Sci** 1989 Apr;35(2):107–19
Sequence of the 24S alpha ribosomal RNA gene and characterization of a corresponding pseudogene from Trypanosoma cruzi. de Arruda MV, et al. **Mol Biochem Parasitol** 1990 Apr;40(1):35–41
Primary structure of Trypanosoma cruzi small-subunit ribosomal RNA coding region: comparison with other trypanosomatids. Hernández R, et al. **Mol Biochem Parasitol** 1990 Jun;41(2):207–12
Phylogenetic relationships of the pipid frogs Xenopus and Silurana: an integration of ribosomal DNA and morphology. de Sá RO, et al. **Mol Biol Evol** 1990 Jul; 7(4):365–76
Independent insertion of Alu elements in the human ribosomal spacer and their concerted evolution. Gonzalez IL, et al. **Mol Biol Evol** 1989 Jul;6(4):413–23
Spacer promoters are orientation-dependent activators of pre-rRNA transcription in Drosophila melanogaster. Grimaldi G, et al. **Mol Cell Biol** 1990 Sep;10(9):4667–77
The mouse ribosomal DNA promoter has more stringent requirements in vivo than in vitro. Henderson SL, et al. **Mol Cell Biol** 1990 Sep;10(9):4970–3
The first pre-rRNA-processing event occurs in a large complex: analysis by gel retardation, sedimentation, and UV cross-linking. Kass S, et al. **Mol Cell Biol** 1990 Sep; 10(9):4920–31
Characterization of I-Ppo, an intron-encoded endonuclease that mediates homing of a group I intron in the ribosomal DNA of Physarum polycephalum. Muscarella DE, et al. **Mol Cell Biol** 1990 Jul;10(7):3386–96
The Xenopus ribosomal DNA 60- and 81-base-pair repeats are position-dependent enhancers that function at the establishment of the preinitiation complex: analysis in vivo and in an enhancer-responsive in vitro system. Pape LK, et al. **Mol Cell Biol** 1989 Nov;9(11):5093–104
Enhancers for RNA polymerase I in mouse ribosomal DNA. Pikaard CS, et al. **Mol Cell Biol** 1990 Sep;10(9):4816–25
Characterization of factors that direct transcription of rat ribosomal DNA. Smith SD, et al. **Mol Cell Biol** 1990 Jun; 10(6):3105–16
Base pairing between the 3' exon and an internal guide sequence increases 3' splice site specificity in the Tetrahymena self-splicing rRNA intron. Suh ER, et al. **Mol Cell Biol** 1990 Jun;10(6):2960–5
Termination region in rRNA genes from a eucaryotic thermophile, Thermomyces lanuginosus. Walker K, et al. **Mol Cell Biol** 1990 Jan;10(1):377–81
Amplification of tandemly repeated origin control sequences confers a replication advantage on rDNA replicons in Tetrahymena thermophila. Yu GL, et al. **Mol Cell Biol** 1990 May;10(5):2070–80
Transcription of tomato ribosomal DNA and the organization of the intergenic spacer. Perry KL, et al. **Mol Gen Genet** 1990 Mar;221(1):103–12
Developmental regulation of stage-specific ribosome populations in Plasmodium. Waters AP, et al. **Nature** 1989 Nov 23;342(6248):438–40
Nucleotide sequences of 18S ribosomal RNA genes from the red algae Gracilaria tikvahiae McLachlan, Gracilaria verrucosa (Hudson) Papenfuss and Gracilariopsis sp. Bird CJ, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4023–4
Selective initiation of replication at origin sequences of the rDNA molecule of Physarum polycephalum using synchronous plasmodial extracts. Daniel DC, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8343–62
Nucleotide sequence of a 16S rRNA encoding gene from the archaebacterium Methanothrix soehngenii. Eggen R, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9469
Point mutation analysis of the Xenopus laevis RNA polymerase I core promoter. Firek S, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):105–9
Identification and sequence analysis of the ribosomal DNA promoter region of Crithidia fasciculata. Grondal EJ, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1333–8
Nucleotide sequence of the chloroplast large subunit rRNA gene from Chlamydomonas reinhardtii. Lemieux C, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7997
Sequence of the gene for the cytoplasmic ribosomal RNA small subunit from Kluyveromyces lactis. Maleszka R, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1889
Linker scanning of the yeast RNA polymerase I promoter. Musters W, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):9661–78
Expression of yeast 5S RNA is independent of the rDNA enhancer region. Neigeborn L, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4179–84
Site-specific ribosomal DNA insertion elements in Anopheles gambiae and A. arabiensis: nucleotide sequence of gene-element boundaries. Paskewitz SM, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8125–33
An undecamer DNA sequence directs termination of human ribosomal gene transcription. Pfleiderer C, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4727–36
Structural analysis of the short length ribosomal DNA variant from Pisum sativum L. cv. Alaska. Piller KJ, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3135–45
Nucleotide sequence of the 18S–25S spacer region from mustard DNA. Rathgeber J, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7522
Nucleotide sequence of the intergenic spacer and the 18S ribosomal RNA gene from mustard (Sinapis alba). Rathgeber J, et al. **Nucleic Acids Res** 1990 Mar 11; 18(5):1288
Insertion of an LrDNA gene fragment and of filler DNA at a mitochondrial exon–intron junction in Podospora. Sainsard-Chanet A, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):779–83
Isolation and functional characterization of TIF-IB, a factor that confers promoter specificity to mouse RNA polymerase I. Schnapp A, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1385–93
Interaction of RNA polymerase I transcription factors with a promoter in the nontranscribed spacer of rat ribosomal DNA. Smith SD, et al. **Nucleic Acids Res** 1990 Apr 11; 18(7):1677–85
Capillary gel electrophoresis for rapid, high resolution DNA sequencing. Swerdlow H, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1415–9
Nucleotide sequence of the 18S rRNA gene from Arabidopsis thaliana Col0. Unfried I, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7513
Nucleotide sequence of the 5.8S and 25S rRNA genes and of the internal transcribed spacers from Arabidopsis thaliana. Unfried I, et al. **Nucleic Acids Res** 1990 Jul 11; 18(13):4011
Cis-acting sequences from mouse rDNA promote plasmid DNA amplification and persistence in mouse cells: implication of HMG-I in their function. Wegner M, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9909–32
Sequence of the gene for the cytoplasmic ribosomal RNA small subunit from Candida (Torulopsis) glabrata. Wong OC, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1888
DNA and protein determinants of nucleosome positioning on sea urchin 5S rRNA gene sequences in vitro. Dong F, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5724–8
In vitro transcription of two rRNA genes of the archaebacterium Sulfolobus sp. B12 indicates a factor requirement for specific initiation. Hüdepohl U, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5851–5
Genotypic variation within asexual lineages of Taraxacum officinale. King LM, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):998–1002
Dominant lethal mutations in a conserved loop in 16S rRNA. Powers T, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):1042–6
Superstructure of the Drosophila ribosomal gene family [published erratum appears in Proc Natl Acad Sci U S A 1990 Aug;87(16):6475] Williams SM, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3156–60
Transformation of Tetrahymena thermophila with a mutated circular ribosomal DNA plasmid vector. Yu GL, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8487–91
Sequential changes in the nucleoli of human spermatogonia with special reference to rDNA location and transcription. Hartung M, et al. **Tissue Cell** 1990;22(1):25–37
Species and genus specificity of the intergenic spacer (IGS) in the ribosomal RNA genes of Cucurbitaceae. Torres RA, et al. **Z Naturforsch [C]** 1989 Nov–Dec;44(11–12):1029–34
[Image analysis for measuring the rDNA transcriptional activity] Chen LQ, et al. **I Chuan Hsueh Pao** 1990; 17(1):75–80 (Eng. Abstr.) **(Chi)**
[Expression of ribosomal genes under the action of 5-azacytidine in the African green monkey RAMT cell line] Baranovskaia LI, et al. **Biull Eksp Biol Med** 1989 Nov; 108(11):606–8 (Eng. Abstr.) **(Rus)**
[Study of polymorphism in human rRNA gene clusters] Skriabin BV, et al. **Genetika** 1989 Jul;25(7):1302–9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Isolation and characterization of ribosomal DNA variants from Sciara coprophila. Kerrebrock AW, et al. **J Mol Biol** 1989 Nov 5;210(1):1–13

METABOLISM

Exchange of spacer regions between rRNA operons in Escherichia coli. Harvey S, et al. **Genetics** 1990 Aug; 125(4):683–90
The transcription complex of the 5 S RNA gene, but not transcription factor IIIA alone, prevents nucleosomal repression of transcription. Tremethick D, et al. **J Biol Chem** 1990 Mar 25;265(9):5014–23
Neutron and light-scattering studies of DNA gyrase and its complex with DNA. Krueger S, et al. **J Mol Biol** 1990 Jan 5;211(1):211–20
Ribosomal RNA-based diagnosis of Plasmodium falciparum malaria. Lal AA, et al. **Mol Biochem Parasitol** 1989 Aug; 36(1):67–71
Reaction parameters of TFIIIA-induced supercoiling catalyzed by a Xenopus laevis cell-free extract. Sekiguchi JA, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1021–9
Mode of interaction of the zinc finger protein TFIIIA with a 5S RNA gene of Xenopus. Churchill ME, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5528–32

PHYSIOLOGY

Transcription factor requirements for in vitro formation of transcriptionally competent 5S rRNA gene chromatin. Felts SJ, et al. **Mol Cell Biol** 1990 May;10(5):2390–401

RADIATION EFFECTS

Origin of ultraviolet damage in DNA. Becker MM, et al. **J Mol Biol** 1989 Dec 5;210(3):429–38

ULTRASTRUCTURE

Localization of ribosomal cistrons at the ultrastructural level by in situ hybridization technique. Ghosh S, et al. **Cell Biol Int Rep** 1990 Jun;14(6):521–5

DNA, SATELLITE

Differences in the organization and chromosomal allocation of satellite DNA between the European long tailed house mice Mus domesticus and Mus musculus. Redi CA, et al. **Chromosoma** 1990 Apr;99(1):11–7
Sequence variability of satellite DNA from the mealworm Tenebrio molitor. Ugarković D, et al. **Gene** 1989 Nov 15; 83(1):181–3
In situ hybridization and pulsed-field gel analysis define two major minisatellite loci: 1q23 for minisatellite 33.6 and 7q35–q36 for minisatellite 33.15. Chimini G, et al. **Genomics** 1989 Aug;5(2):316–24
Evolution of alpha-satellite DNA on human acrocentric chromosomes. Choo KH, et al. **Genomics** 1989 Aug; 5(2):332–44
Isolation and characterisation of satellite DNA from Brassica juncea (L.) Czern. Reddy AS, et al. **Indian J Biochem Biophys** 1989 Jun;26(3):131–5
Satellite DNA and higher-primate phylogeny. Fowler JC, et al. **Mol Biol Evol** 1989 Sep;6(5):553–7
Hypervariable minisatellites: recombinators or innocent bystanders? Jarman AP, et al. **Trends Genet** 1989 Nov; 5(11):367–71 (30 ref.)

ANALYSIS

Composition and chromosomal localization of cetacean highly repetitive DNA with special reference to the blue whale, Balaenoptera musculus. Arnason U, et al. **Chromosoma** 1989 Nov;98(5):323–9
Satellite DNA sequences in the neotropical marmoset Callimico goeldii (Primates, Platyrrhini). Fanning TG, et al. **Chromosoma** 1989 Dec;98(6):396–401
Satellite DNA I in chromatin loops of rat pachytene chromosomes and in spermatids. Moens PB, et al. **Chromosoma** 1989 Oct;98(4):287–94
The chromosomal distribution of the major and minor satellite is not conserved in the genus Mus. Wong AK, et al. **Chromosoma** 1990 Jul;99(3):190–5
DNA minisatellites demonstrate somatic DNA changes in most human bladder cancers. Uchida T, et al. **Cytogenet Cell Genet** 1990;53(1):61–3
Nucleotide sequences of highly repetitive DNA from scleractinian corals. McMillan J, et al. **Gene** 1989 Nov 15; 83(1):185–6
A polymorphic satellite sequence maps to the pericentric region of the bovine Y chromosome. Perret J, et al. **Genomics** 1990 Mar;6(3):482–90
Rapid and simple detection of minisatellite regions in forensic DNA samples by the polymerase chain reaction combined with a chemiluminescence method. Decorte R, et al. **Trends Genet** 1990 Jun;6(6):172–3

DIAGNOSTIC USE

Minisatellite DNA profiles: rapid sample identification in linkage analysis. Telenius H, et al. **Hum Hered** 1990; 40(2):77–80

GENETICS

A human alpha satellite DNA subset specific for chromosome 12. Baldini A, et al. **Am J Hum Genet** 1990 Apr;46(4):784–8
Chromosome-specific alpha satellite DNA from the centromere of human chromosome 16. Greig GM, et al. **Am J Hum Genet** 1989 Dec;45(6):862–72

Five polymorphic microsatellite VNTRs on the human X chromosome. Luty JA, et al. **Am J Hum Genet** 1990 Apr; 46(4):776–83

Satellite DNAs contain sequences that induced curvature. Martínez-Balbás A, et al. **Biochemistry** 1990 Mar 6; 29(9):2342–8

Repeat unit sequence variation in minisatellites: a novel source of DNA polymorphism for studying variation and mutation by single molecule analysis. Jeffreys AJ, et al. **Cell** 1990 Feb 9;60(3):473–85

Hypervariable minisatellite DNA is a hotspot for homologous recombination in human cells. Wahls WP, et al. **Cell** 1990 Jan 12;60(1):95–103

Human satellite III DNA: genomic location and sequence homogeneity of the TaqI-deficient polymorphic sequences. Fowler JC, et al. **Chromosoma** 1989 Oct;98(4):266–72

Oligonucleotide-priming methods for the chromosome-specific labelling of alpha satellite DNA in situ. Koch JE, et al. **Chromosoma** 1989 Oct;98(4):259–65

Concerted evolution of alpha satellite DNA: evidence for species specificity and a general lack of sequence conservation among alphoid sequences of higher primates. Waye JS, et al. **Chromosoma** 1989 Oct;98(4):273–9

Flow cytometric quantification of human chromosome specific repetitive DNA sequences by single and bicolor fluorescent in situ hybridization to lymphocyte interphase nuclei. van Dekken H, et al. **Cytometry** 1990;11(1):153–64

DNA fingerprinting in a random sample of Japanese population with the minisatellite probe MZ 1.3. Rose M, et al. **Exp Clin Immmunogenet** 1990;7(2):136–40

A satellite DNA family from pollock (Pollachius virens). Denovan EM, et al. **Gene** 1990 Mar 15;87(2):279–83

Molecular evolution of centromere-associated nucleotide sequences in two species of canids. Fanning TG. **Gene** 1989 Dec 28;85(2):559–63

BKm minisatellite sequences are not sex associated but reveal DNA fingerprint polymorphisms in rainbow trout. Lloyd MA, et al. **Genome** 1989 Oct;32(5):865–8

The genomics of long tandem arrays of satellite DNA in the human genome. Willard HF. **Genome** 1989;31(2):737–44 (57 ref.)

A human alphoid DNA clone from the EcoRI dimeric family: genomic and internal organization and chromosomal assignment. Baldini A, et al. **Genomics** 1989 Nov;5(4):822–8

Patterns of intra- and interarray sequence variation in alpha satellite from the human X chromosome: evidence for short-range homogenization of tandemly repeated DNA sequences. Durfy SJ, et al. **Genomics** 1989 Nov;5(4):810–21

"Major minisatellite loci" detected by minisatellite clones 33.6 and 33.15 correspond to the cognate loci D1S111 and D7S437. Jeffreys AJ, et al. **Genomics** 1990 Jul;7(3):449–52

Characterization of a highly unstable mouse minisatellite locus: evidence for somatic mutation during early development. Kelly R, et al. **Genomics** 1989 Nov; 5(4):844–56

Pulsed-field gel analysis of alpha-satellite DNA at the human X chromosome centromere: high-frequency polymorphisms and array size estimate. Mahtani MM, et al. **Genomics** 1990 Aug;7(4):607–13

Mouse major (gamma) satellite DNA is highly conserved and organized into extremely long tandem arrays: implications for recombination between nonhomologous chromosomes. Vissel B, et al. **Genomics** 1989 Oct; 5(3):407–14

An alpha satellite DNA polymorphism specific for the centromeric region of chromosome 13. Warren AC, et al. **Genomics** 1990 May;7(1):110–4

Simultaneous genetic mapping of multiple human minisatellite sequences using DNA fingerprinting. Wells RA, et al. **Genomics** 1989 Nov;5(4):761–72

Population bottlenecks in Polynesia revealed by minisatellites. Flint J, et al. **Hum Genet** 1989 Oct; 83(3):257–63

Pericentromeric structure of human X "isochromosomes": evidence for molecular heterogeneity. Sharp CB, et al. **Hum Genet** 1990 Aug;85(3):330–6

Identification of a hypervariable microsatellite polymorphism within D9S15 tightly linked to Friedrich's ataxia. Wallis J, et al. **Hum Genet** 1990 Jun;85(1):98–100

Extensive sequence polymorphisms associated with chromosome 10 alpha satellite DNA and its close linkage to markers from the pericentromeric region. Wu JS, et al. **Hum Genet** 1990 Feb;84(3):279–82

A GGCAGG motif in minisatellites affecting their germline instability. Mitani K, et al. **J Biol Chem** 1990 Sep 5; 265(25):15203–10

A polymorphic microsatellite in the tumor necrosis factor alpha promoter identifies an allele unique to the NZW mouse strain. Jongeneel CV, et al. **J Exp Med** 1990 Jun 1;171(6):2141–6

Sex-specific DNA in reptiles with temperature sex determination. Demas S, et al. **J Exp Zool** 1990 Mar; 253(3):319–24

Highly polymorphic minisatellite sequences: allele frequencies and mutation rates for five locus-specific probes in a Caucasian population. Smith JC, et al. **J Forensic Sci Soc** 1990 Jan-Feb;30(1):19–32

Highly polymorphic minisatellite DNA probes. Further evaluation for individual identification and paternity testing. Smith JC, et al. **J Forensic Sci Soc** 1990 Jan-Feb; 30(1):3–18

Linkage of internal minisatellite loci on chromosome 1 and exclusion of autosomal dominant retinitis pigmentosa proximal to rhesus. Inglehearn CF, et al. **J Med Genet** 1990 Jan;27(1):14–6

Heterochromatin condensation and evolution of unique satellite-DNA families in two parasitic wasp species: Diadromus pulchellus and Eupelmus vuilleti (Hymenoptera). Bigot Y, et al. **Mol Biol Evol** 1990 Jul; 7(4):351–64

Concerted evolution of light satellite DNA in genus Mus implies amplification and homogenization of large blocks of repeats. Dod B, et al. **Mol Biol Evol** 1989 Sep;6(5):478–91

Evidence for rolling-circle replication in a major satellite DNA from the South American rodents of the genus Ctenomys. Rossi MS, et al. **Mol Biol Evol** 1990 Jul; 7(4):340–50

Tissue-specific and age-related variations in repetitive sequences of mouse extrachromosomal circular DNAs. Gaubatz JW, et al. **Mutat Res** 1990 Jan;237(1):29–36

DNA fingerprinting. Mapping 'frozen accidents' [news] Dover GA. **Nature** 1990 Apr 26;344(6269):812–3

DNA fingerprints: Victims or perpetrators of DNA turnover? [news] Dover GA. **Nature** 1989 Nov 23; 342(6248):347–8

The human minisatellite consensus at breakpoints of oncogene translocations. Krowczynska AM, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1121–7

Towards construction of a high resolution map of the mouse genome using PCR-analysed microsatellites. Love JM, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4123–30

Sequence of the Calliphora erythrocephala 3B55 satellite: a sequence which is proportionately replicated and transcribed in germ-line polyploid nuclei. Nazimiec M, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9486

Preservation of a complex satellite DNA in two species of echinoderms. Sainz J, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):885–90

The Caenorhabditis elegans genome contains monomorphic minisatellites and simple sequences. Uitterlinden AG, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9527–30

Satellite 1 DNA sequence from genomic DNA of the giant panda Ailuropoda melanoleuca. Wu ZA, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1054

Minisatellite linkage maps in the mouse by cross-hybridization with human probes containing tandem repeats. Julier C, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4585–9

Long-range organization of tandem arrays of alpha satellite DNA at the centromeres of human chromosomes: high-frequency array-length polymorphism and meiotic stability. Wevrick R, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9394–8

[An alpha-satellite DNA sequence, alpha-RI-6, specific for human chromosomes 13 and 21, detected using the RFLP technic with digoxigenin labelled probes] Mazura I, et al. **Cas Lek Cesk** 1989 Sep 29;128(40):1269–71 (Eng. Abstr.) **(Cze)**

[Acquisition of the sequence of a new subclass of human alpha- satellite DNA, localized in the centromere regions of two pairs of acrocentric chromosomes] Gar'kavtsev IV, et al. **Mol Gen Mikrobiol Virusol** 1989 Jun;(6):25–9 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

A human centromere antigen (CENP-B) interacts with a short specific sequence in alphoid DNA, a human centromeric satellite. Masumoto H, et al. **J Cell Biol** 1989 Nov;109(5):1963–73

ISOLATION & PURIFICATION

Isolation of the DNA minisatellite probe MZ 1.3 and its application to DNA 'fingerprinting' analysis. Schacker U, et al. **Forensic Sci Int** 1990 Feb;44(2-3):209–24

Identification of two distinct subfamilies of alpha satellite DNA that are highly specific for human chromosome 15. Choo KH, et al. **Genomics** 1990 Jun;7(2):143–51

[Isolation and molecular cytogenetic characteristics of the alpha-satellite DNA of human chromosome 6] Gar'kavtsev IV, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):735–7 (Eng. Abstr.) **(Rus)**

METABOLISM

Detection of a novel minisatellite-specific DNA-binding protein. Collick A, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):625–9

PHYSIOLOGY

Chromosomal recombination and breakage associated with instability in mouse centrometric satellite DNA. Chatterjee B, et al. **J Mol Biol** 1989 Nov 20;210(2):303–12

ULTRASTRUCTURE

[Chromocenters of interphase nuclei in the mouse liver contain satellite DNA] Stefanova EV, et al. **Mol Biol (Mosk)** 1990 Mar-Apr;24(2):501–5 (Eng. Abstr.) **(Rus)**

DNA, SINGLE-STRANDED

Potassium monopersulfate and a water-soluble manganese porphyrin complex, [Mn(TMPyP)](OAc)5, as an efficient reagent for the oxidative cleavage of DNA. Bernadou J, et al. **Biochemistry** 1989 Sep 5;28(18):7268–75

Rapid purification of porcine colostral whey lactoferrin by affinity chromatography on single-stranded DNA-agarose. Characterization, amino acid composition and N-terminal amino acid sequence. Hutchens TW, et al. **Biochim Biophys Acta** 1989 Dec 21;999(3):323–9

Structure and dynamics of M13mp19 circular single-strand DNA: effects of ionic strength. Wilson DH, et al. **Biopolymers** 1990 Feb 5;29(2):357–76

Superpolylinkers in cloning and expression vectors. Brosius J. **DNA** 1989 Dec;8(10):759–77

The conformation of single-stranded nucleic acids tDNA versus tRNA. Paquette J, et al. **Eur J Biochem** 1990 Apr 30;189(2):259–65

Porphyrin-linked oligonucleotides. Synthesis and sequence-specific modification of ssDNA. Frolova EI, et al. **FEBS Lett** 1990 Aug 20;269(1):101–4

New reagent for discrimination of single- and double-stranded regions in DNA. Mazin AV, et al. **FEBS Lett** 1989 Dec 4;258(2):244–6

A model for the complex between the helix destabilizing protein GP32 of bacteriophage T4 and single-stranded DNA. Scheerhagen MA, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):701–6

The conformation of the complex of the helix destabilizing protein GP32 of bacteriophage T4 and single stranded DNA. Scheerhagen MA, et al. **J Biomol Struct Dyn** 1985 Feb;2(4):821–9

The use of E. coli exonuclease III to generate single stranded DNA in BrdUrd cell-cycle analysis permits simultaneous detection of cell surface antigens. Bayer JA, et al. **J Immunol Methods** 1990 Aug 28;132(1):13–24

DNA polymerase from Sulfolobus acidocaldarius. Replication at high temperature of long stretches of single-stranded DNA. Salhi S, et al. **J Mol Biol** 1989 Oct 20;209(4):635–44

Relationship between life expectancy and endogenous DNA single-strand breakage, strand break induction and DNA repair capacity in the adult housefly, Musca domestica. Newton RK, et al. **Mech Ageing Dev** 1989 Sep;49(3):259–70 (22 ref.)

Stopping the DNA polymerase activity at a specific site with a dideoxyoligonucleotide: selective labelling of single stranded circular DNA. Mattanovich D, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8384

Interconvertible hairpin structure found in the replication origin of phage G4 single-stranded DNA. Hirao I, et al. **Nucleic Acids Symp Ser** 1989;(21):13–4

Single strand DNA breaks in human leukocytes induced by ultrasound in vitro. Miller DL, et al. **Ultrasound Med Biol** 1989;15(8):765–71

ANALYSIS

Picogram quantitation of total DNA using DNA-binding proteins in a silicon sensor-based system. Kung VT, et al. **Anal Biochem** 1990 Jun;187(2):220–7

Detection of DNA strand breaks in Escherichia coli treated with platinum(IV) antitumor compounds. Defais M, et al. **Chem Biol Interact** 1990;74(3):343–52

An immunoenzymatic test designed for the detection of small amounts of contaminant DNA in biological preparations. Traincard F, et al. **Dev Biol Stand** 1990;71:181–4

Monoclonal anti-nucleoside antibodies. Characterization and application in an enzyme immunoassay of single-stranded DNA. Traincard F, et al. **J Immunol Methods** 1989 Sep 29;123(1):83–91

Mutational analysis of single-stranded DNA templates active in the in vitro initiation assay for adenovirus DNA replication. Dobbs L, et al. **Virology** 1990 Sep;178(1):43–51

BIOSYNTHESIS

Porcine tumor necrosis factor alpha: cloning with the polymerase chain reaction and determination of the nucleotide sequence. Pauli U, et al. **Gene** 1989 Sep 1; 81(1):185–91

SOS repair can be about as effective for single-stranded DNA as for double-stranded DNA and even more so. Tessman I. **J Bacteriol** 1990 Sep;172(9):5503–5

Replication of tomato golden mosaic virus DNA B in transgenic plants expressing open reading frames (ORFs) of DNA A: requirement of ORF AL2 for production of single-stranded DNA. Hayes RJ, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10213–22

CHEMICAL SYNTHESIS

"Run-off" synthesis and application of defined single-stranded DNA hybridization probes. Stürzl M, et al. **Anal Biochem** 1990 Feb 15;185(1):164–9

A new method for the synthesis of a structural gene. Chen HB, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):871–8

DRUG EFFECTS

Free radical production and DNA cleavage by copper chelating peptide-anthraquinones. Morier-Teissier E, et al. **Anticancer Drug Des** 1990 Aug;5(3):291–305

Formation and repair of DNA lesions in kidneys of male mice after acute exposure to methyl chloride. Ristau C, et al. **Arch Toxicol** 1990;64(3):254–6

Dimethylated arsenics induce DNA strand breaks in lung via the production of active oxygen in mice. Yamanaka K, et al. **Biochem Biophys Res Commun** 1989 Nov 30; 165(1):43–50

Characterization of the DNA damage in 6-thioguanine-treated cells. Pan BF, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):

Metabolism and DNA single strand breaks induced by 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone and its analogues in primary culture of rat hepatocytes. Liu LL, et al. **Cancer Res** 1990 Mar 15;50(6):1810–6

Nitrogen dioxide induces DNA single-strand breaks in cultured Chinese hamster cells. Görsdorf S, et al. **Carcinogenesis** 1990 Jan;11(1):37–41

The role of hydroxyl radicals in tetrachlorohydroquinone induced DNA strand break formation in PM2 DNA and human fibroblasts. Carstens CP, et al. **Chem Biol Interact** 1990;74(3):305–14

Differential effects of glutathione depletion and metallothionein induction on the induction of DNA single-strand breaks and cytotoxicity by tert-butyl hydroperoxide in cultured mammalian cells. Ochi T, et al. **Chem Biol Interact** 1989;72(3):335–45

Ferric and cupric ions requirement for DNA single-strand breakage by H2O2. Tachon P. **Free Radic Res Commun** 1989;7(1):1–10

Effects of oxygen radical scavengers on the inactivation of SS phi X174 DNA by the semi-quinone free radical of the antitumor agent etoposide. Van Maanen JM, et al. **Free Radic Res Commun** 1990;9(2):69–86

Inductions of ornithine decarboxylase and replicative DNA synthesis but not DNA single strand scission or unscheduled DNA synthesis in the pyloric mucosa of rat stomach by catechol. Furihata C, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1052–7

Acrylonitrile-induced sister-chromatid exchanges and DNA single-strand breaks in adult human bronchial epithelial cells. Chang CM, et al. **Mutat Res** 1990 Aug;241(4):355–60

Hydrogen peroxide-induced DNA damage in bovine lens epithelial cells [published erratum appears in Mutat Res 1990 Aug;241(4):395] Kleiman NJ, et al. **Mutat Res** 1990 Jan;240(1):35–45

Lack of DNA single-strand breaks in rat liver cells exposed to 4-acetylaminofluorene, in vivo and in vitro. Nizard C, et al. **Mutat Res** 1990 Jul;244(3):245–50

Measurement of DNA breakage in specific germ-cell stages of male mice exposed to acrylamide, using an alkaline-elution procedure. Sega GA, et al. **Mutat Res** 1990 Sep;242(1):79–87

The effect of single versus double-strand substitution on halogenated pyrimidine-induced radiosensitization and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Radiat Res** 1990 Aug;123(2):192–8

DNA damage induced by N-nitrosodibenzylamine and N-nitroso-alpha-acetoxybenzyl-benzylamine in mammalian cell systems and in vivo. Appel KE, et al. **Toxicol Lett** 1990 Aug;52(3):269–77

Factors influencing the induction of DNA single strand breaks in rats by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Wahba ZZ, et al. **Toxicology** 1989 Sep; 58(1):57–69

[Modeling, using nucleases, of the effect of radiation on Chinese hamster fibroblasts. On the role of single-stranded DNA breaks, induced by DNAase I, in the initiation of chromosome aberrations] Ganassi EE, et al. **Radiobiologiia** 1989 Nov-Dec;29(6):742–5 (Eng. Abstr.) **(Rus)**

GENETICS

Assembly of genes from partially overlapping fragments using single-stranded DNA and sequence-specific synthetic oligodeoxynucleotides. Clegg JC. **Anal Biochem** 1989 Aug 15;181(1):106–8

Increased efficiency of oligonucleotide mutagenesis by removal of endogenous primers from preparations of single-stranded M13 DNA. Xu SY, et al. **Biotechniques** 1990 Feb;8(2):168–9

DNA single-strand breaks, double-strand breaks, and crosslinks in rat testicular germ cells: measurements of their formation and repair by alkaline and neutral filter elution. Bradley MO, et al. **Cell Biol Toxicol** 1985 Jun;1(3):181–95

Site-directed insertion of long single-stranded DNA fragments into plasmid DNA. Mazin AV, et al. **DNA Cell Biol** 1990 Jan-Feb;9(1):63–9

Plus-origin mapping of single-stranded DNA plasmid pE194 and nick site homologies with other plasmids. Sozhamannan S, et al. **J Bacteriol** 1990 Aug;172(8):4543–8

New bacteriophage vectors for the large scale production of single stranded insert DNA. Biernat J, et al. **J Biochem Biophys Methods** 1989 Aug-Sep;19(2-3):155–67

Effects of proflavin and photoactivated proflavin on the template function of single-stranded DNA. Revich GG, et al. **J Mol Biol** 1990 Jan 5;211(1):63–74

Orientation of the bases of single-stranded DNA and polynucleotides in complexes formed with the gene 32 protein of bacteriophage T4. A linear dichroism study. van Amerongen H, et al. **J Mol Biol** 1989 Oct 5;209(3):433–45

Improved single-stranded DNA producing expression vectors for protein manipulation in Escherichia coli. Büttcher V, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1075

Primer design in fluorescent DNA sequencing. De Bellis G, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4951–2

Direct sequencing of double-stranded DNA PCR products via removing the complementary strand with single-stranded DNA of an M13 clone. Gal S, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1076

Mutation frequency and spectrum resulting from a single abasic site in a single-stranded vector. Lawrence CW, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2153–7

Rapid generation of specific single-stranded template DNA from PCR-amplified material. Ward MA, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8394

Construction of recombinant DNA molecules by the use of a single stranded DNA generated by the polymerase chain reaction: its application to chimeric hepatitis A virus/poliovirus subgenomic cDNA. Wychowski C, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):913–8

The coat protein of beet curly top virus is essential for infectivity. Briddon RW, et al. **Virology** 1989 Oct; 172(2):628–33

Nucleotide sequence of a circular single-stranded DNA associated with coconut foliar decay virus. Rohde W, et al. **Virology** 1990 Jun;176(2):648–51

[The role of single-stranded DNA in the integration of SV40 genome into cellular DNA] Popov LS. **Biokhimiia** 1989 Nov;54(11):1815–20 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Cross-reactive rheumatoid factors in rheumatoid arthritis with extra-articular disease. Kinoshita M, et al. **Clin Exp Immunol** 1990 Jan;79(1):72–7

Monocyte-mediated suppression of anti-DNA antibody production in healthy subjects. Okawa-Takatsuji M, et al. **Clin Exp Immunol** 1989 Sep;77(3):403–9

Chronic in vivo depletion of CD4 T cells increases both serum IgM levels and the expressed frequency of anti-ssDNA precursors in both NZB and DBA/2 mice. Cowdery JS. **Clin Immunol Immunopathol** 1990 Sep; 56(3):360–72

Immune complex-mediated inhibition of lymphocyte Fc-gamma receptors in the plasma of patients with type 1 (insulin-dependent) diabetes mellitus: association with anti-ssDNA antibodies. Guarnotta G, et al. **Clin Immunol Immunopathol** 1990 Feb;54(2):228–36

BK virus terminates tolerance to dsDNA and histone antigens in vivo. Fredriksen K, et al. **Immunol Invest** 1990 Apr; 19(2):133–51

Partial expression of the viable motheaten (mev) mutation in the heterozygous state: abnormal levels of serum immunoglobulins and natural anti-ssDNA antibodies. Kuntz L, et al. **J Autoimmun** 1990 Jun;3(3):329–35

Cross-reactivity distinguishes serum and nephritogenic anti-DNA antibodies in human lupus from their natural counterparts in normal serum. Sabbaga J, et al. **J Autoimmun** 1990 Apr;3(2):215–35

High-affinity antibodies to ssDNA are produced by CD-B cells in systemic lupus erythematosus patients. Casali P, et al. **J Immunol** 1989 Dec 1;143(11):3476–83

ISOLATION & PURIFICATION

Isolation of a single-stranded plasmid from Clostridium acetobutylicum NCIB 6444. Kim AY, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1725–8

The CTAB-DNA precipitation method: a common mini-scale preparation of template DNA from phagemids, phages or plasmids suitable for sequencing. Del Sal G, et al. **Biotechniques** 1989 May;7(5):514–20

Automated methods for single-stranded DNA isolation and dideoxynucleotide DNA sequencing reactions on a robotic workstation. Mardis ER, et al. **Biotechniques** 1989 Sep; 7(8):840–50

METABOLISM

S1-nuclease enhancement of the ethidium bromide binding assay of drug-induced DNA interstrand crosslinking in human brain tumor cells. Sriram R, et al. **Anal Biochem** 1990 Jun;187(2):345–8

Evidence for nonintercalative complexes formed from the reversible binding of benzo[a]pyrene metabolites to closed-circular, single-stranded M13mp19 DNA. Price HL, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1095–102

DNA single-strand breaks induced by activated macrophages. Ranjbar S, et al. **Biochem Soc Trans** 1990 Apr;18(2):308–9

Iron(II)-ethylenediaminetetraacetic acid catalyzed cleavage of RNA and DNA oligonucleotides: similar reactivity toward single- and double-stranded forms. Celander DW, et al. **Biochemistry** 1990 Feb 13;29(6):1355–61

Generation of a catalytic sequence-specific hybrid DNase. Corey DR, et al. **Biochemistry** 1989 Oct 17;28(21):8277–86

Complex formation between the adenovirus DNA-binding protein and single-stranded poly(rA). Cooperativity and salt dependence. Kuil ME, et al. **Biochemistry** 1989 Dec 12;28(25):9795–800

Stabilization of recA protein-ssDNA complexes by the single-stranded DNA binding protein of Escherichia coli. Morrical SW, et al. **Biochemistry** 1990 Jan 23;29(3):837–43

Comparison of cooperative and isolated site binding of T4 gene 32 protein to ssDNA by 1H NMR. Pan T, et al. **Biochemistry** 1989 Oct 31;28(22):8833–9

Kinetics of binding of single-stranded DNA binding protein from Escherichia coli to single-stranded nuclei acids. Urbanke C, et al. **Biochemistry** 1990 Feb 20;29(7):1744–9

Structure calculations for single-stranded DNA complexed with the single-stranded DNA binding protein GP32 of bacteriophage T4: a remarkable DNA structure. van Amerongen H, et al. **Biochemistry** 1990 Jun 12; 29(23):5619–25

O6-methylguanine in place of guanine causes asymmetric single-strand cleavage of DNA by some restriction enzymes. Voigt JM, et al. **Biochemistry** 1990 Feb 13; 29(6):1632–7

Base and sequence specificities of aflatoxin B1 binding to single- and double-stranded DNAs. Yu FL, et al. **Carcinogenesis** 1990 Mar;11(3):475–8

High efficiency transformation of intact yeast cells using single stranded nucleic acids as a carrier. Schiestl RH, et al. **Curr Genet** 1989 Dec;16(5-6):339–46

Replication origin of a single-stranded DNA plasmid pC194. Gros MF, et al. **EMBO J** 1989 Sep;8(9):2711–6

Reverse gyrase binding to DNA alters the double helix structure and produces single-strand cleavage in the absence of ATP. Jaxel C, et al. **EMBO J** 1989 Oct; 8(10):3135–9

Electron microscopy of DNA.helicase-I complexes in the act of strand separation. Wessel R, et al. **Eur J Biochem** 1990 Apr 30;189(2):277–85

Structure of the DNA binding wing of the gene-V encoded single- stranded DNA binding protein of the filamentous bacteriophage M13. van Duynhoven JP, et al. **FEBS Lett** 1990 Feb 12;261(1):1–4

Purification and characterization of a DNA-pairing and strand transfer activity from mitotic Saccharomyces cerevisiae. Halbrook J, et al. **J Biol Chem** 1989 Dec 15; 264(35):21403–12

Probing the activation stages of the RecA protein by monoclonal IgGs during the pairing of homologous DNA molecules. Ikeda M, et al. **J Biol Chem** 1990 May 25; 265(15):8957–65

Yeast RNA polymerase I. Derivatization of the 190 and 135 subunits by 4-thiouridine monophosphate positioned uniquely at the 3' terminus of an enzyme-bound 32P-containing transcript initiated by a triribonucleotide primer on synthetic single-stranded DNA. Kelly S, et al. **J Biol Chem** 1990 May 15;265(14):7787–92

Reverse transcriptase from Escherichia coli exists as a complex with msDNA and is able to synthesize double-stranded DNA. Lampson BC, et al. **J Biol Chem** 1990 May 25;265(15):8490–6

Properties of recA441 protein-catalyzed DNA strand exchange can be attributed to an enhanced ability to compete with SSB protein. Lavery PE, et al. **J Biol Chem** 1990 Mar 5;265(7):4004–10

RecA protein promoted homologous pairing in vitro. Pairing between linear duplex DNA bound to HU Protein (nucleosome cores) and nucleoprotein filaments of recA protein-single-stranded DNA. Ramdas J, et al. **J Biol Chem** 1989 Oct 15;264(29):17395–400

Control of the adipsin gene in adipocyte differentiation. Identification of distinct nuclear factors binding to single- and double-stranded DNA. Wilkison WO, et al. **J Biol Chem** 1990 Jan 5;265(1):477–82

A refined calculation of the solution dimensions of the complex between gene 32 protein and single stranded DNA based on estimates of the bending persistence length. Kuil ME, et al. **J Biomol Struct Dyn** 1990 Feb;7(4):943–57

Binding stoichiometry of the gene 32 protein of phage T4 in the complex with single stranded DNA deduced from boundary sedimentation. Scheerhagen MA, et al. **J Biomol Struct Dyn** 1986 Apr;3(5):887–98

Biochemical properties of the Escherichia coli recA430 protein. Analysis of a mutation that affects the interaction of the ATP-recA protein complex with single-stranded DNA. Menetski JP, et al. **J Mol Biol** 1990 Feb 20; 211(4):845–55

Zinc-binding domain of poly(ADP-ribose)polymerase participates in the recognition of single strand breaks on DNA. Ménissier-de Murcia J, et al. **J Mol Biol** 1989 Nov 5;210(1):229–33

Conserved region 3 of the adenovirus type 5 DNA-binding protein is important for interaction with single-stranded DNA. Neale GA, et al. **J Virol** 1990 Feb;64(2):630–8

RecA-ssDNA interaction: induced strand cleavage by hydroxyl radical at a defined distance from the 5' end. Akaboshi E, et al. **Mol Gen Genet** 1990 Feb;220(3):456–60

Nucleolar single stranded DNA [news] **Nature** 1973 May 4;243(5401):9

Selection in vitro of an RNA enzyme that specifically cleaves single-stranded DNA. Robertson DL, et al. **Nature** 1990 Mar 29;344(6265):467–8

Active nucleoprotein filaments of single-stranded binding protein and recA protein on single-stranded DNA have a regular repeating structure. Muniyappa K, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3967–73

Broad host range plasmid RK2 encodes a polypeptide related to single-stranded DNA binding protein (SSB) of Escherichia coli. Thomas CM, et al. **Nucleic Acids Res** 1990 May 11;18(9):2812

DpnA, a methylase for single-strand DNA in the Dpn II restriction system, and its biological function. Cerritelli S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9223–7

The second zinc-finger domain of poly(ADP-ribose) polymerase determines specificity for single-stranded breaks in DNA. Gradwohl G, et al.

Proc Natl Acad Sci U S A 1990 Apr;87(8):2990–4
Multiple functions of human single–stranded–DNA binding protein in simian virus 40 DNA replication: single–strand stabilization and stimulation of DNA polymerases alpha and delta. Kenny MK, et al.
Proc Natl Acad Sci U S A 1989 Dec;86(24):9757–61
[The role of protein binding with single–stranded DNA (SSB–protein) in DNA replication in Ehrlich ascites carcinoma cells] Koterov AN, et al. **Biokhimiia** 1990 May; 55(5):911–6 (Eng. Abstr.) **(Rus)**
[The spatio–temporal distribution of single–stranded breaks in nuclear DNA in sections of clawed toad embryos during gastrulation and neurulation] Zaralskiĭ AG, et al.
Ontogenez 1989 Sep–Oct;20(5):471–7 (Eng. Abstr.) **(Rus)**
[Mammalian plasma proteins bindings with single–stranded DNA; their effect on DNA polymerization and degradation reactions] Novoradovskaia NA, et al. **Ukr Biokhim Zh** 1990 May–Jun;62(3):31–7 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Nucleic acids can regulate the activity of casein kinase II. Gatica M, et al. **FEBS Lett** 1989 Sep 25;255(2):414–8

RADIATION EFFECTS

Low–dose–rate effect of tritium beta–rays on transfection activity of phage DNA related to an oxidative species different from .OH, HO2. O2–., and H2O2. Yamamoto O, et al. **Biochem Int** 1990;20(5):903–11
Induction and repair of DNA strand breaks in X–irradiated proliferating and quiescent CHO cells. Dikomey E.
Int J Radiat Biol 1990 Jun;57(6):1169–82
Enhancement of radiation damage in cellular DNA following unifilar substitution with iododeoxyuridine. Fornace AJ Jr, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr;18(4):873–8
X–ray sensitivity and single–strand DNA break repair in mutagen–sensitive mutants of Drosophila melanogaster. Oliveri DR, et al. **Mutat Res** 1990 Jan;235(1):25–31
Measurement of the radiosensitivity of a radiation–induced adenine defect in a single stranded DNA chain. Duplaa AM, et al. **Radiat Environ Biophys** 1989;28(3):169–76
Production of DNA strand breaks by direct effects of heavy charged particles. Holley WR, et al. **Radiat Res** 1990 Feb; 121(2):161–8
Stage–dependent variation in the radiosensitivity of DNA in developing male germ cells. Joshi DS, et al.
Radiat Res 1990 Mar;121(3):274–81
Hyperthermia, polyamine depletion, and inhibition of X–ray–induced DNA strand break repair. Snyder RD, et al. **Radiat Res** 1989 Oct;120(1):121–8
[Role of the processes of repair of DNA damage in the repair of cytogenetic disorders. Participation of the repair of DNA single–strand breaks in the repair of cytogenetic disorders] Rozanova OM, et al. **Radiobiologiia** 1989 Sep–Oct;29(5):585–8 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Illusory DNA breaks in quiescent lymphocytes? Boerrigter ME, et al. **Exp Cell Res** 1990 May;188(1):1
Images of single–stranded nucleic acids by scanning tunnelling microscopy. Dunlap DD, et al. **Nature** 1989 Nov 9;342(6246):204–6
Formation of a stable triplex from a single DNA strand. Sklenár V, et al. **Nature** 1990 Jun 28;345(6278):836–8

DNA, SPACER see **DNA, RIBOSOMAL**

DNA, SUPERCOILED see **DNA, SUPERHELICAL**

DNA, SUPERHELICAL

Studies on the ATP requirements of in vitro chromatin assembly. Kmiec EB, et al. **Biochem Cell Biol** 1989 Aug; 67(8):443–54
Inhibition of restriction endonuclease cleavage via triple helix formation by homopyrimidine oligonucleotides. François JC, et al. **Biochemistry** 1989 Dec 12;28(25):9617–9
Sequence dependence of DNA conformational flexibility. Sarai A, et al. **Biochemistry** 1989 Sep 19;28(19):7842–9
Configurational and dynamic properties of different length superhelical DNAs measured by dynamic light scattering. Langowski J, et al. **Biophys Chem** 1989 Sep 15;34(1):9–18
Use of a chemically modified T7 DNA polymerase for manual and automated sequencing of supercoiled DNA. Roe BA, et al. **Biotechniques** 1988 Jun;6(6):520
Supercoil sequencing using unpurified templates produced by rapid boiling. Wang LM, et al. **Biotechniques** 1988 Oct; 6(9):839, 841–3
Supercoiled DNA is interwound in liquid crystalline solutions. Torbet J, et al. **EMBO J** 1989 Dec 20; 8(13):4351–6
Structural changes in positively and negatively supercoiled DNA. Brahms S, et al. **Eur J Biochem** 1989 Sep 15; 184(2):297–303
Effect of length, supercoiling, and pH on intramolecular triplex formation. Multiple conformers at pur.pyr mirror repeats. Collier DA, et al. **J Biol Chem** 1990 Jun 25; 265(18):10652–8
A theoretical study of formation of DNA noncanonical structures under negative superhelical stress. Anshelevich VV, et al. **J Biomol Struct Dyn** 1988 Oct;6(2):247–59
Molecular modeling and energy refinement of supercoiled DNA. Hao MH, et al. **J Biomol Struct Dyn** 1989 Dec; 7(3):661–92
Relationship between curved DNA conformations and slow gel migration. Jernigan RL, et al. **J Biomol Struct Dyn** 1987 Feb;4(4):561–7
Chemical probing of the B–Z transition in negatively supercoiled DNA. Johnston BH. **J Biomol Struct Dyn** 1988 Aug;6(1):153–66
Predicted role of particular phonons in the strand separation melting of the DNA double helix. Kim Y, et al.
J Biomol Struct Dyn 1986 Dec;4(3):437–42 (12 ref.)
The interactions of enzyme and chemical probes with inverted repeats in supercoiled DNA. Lilley DM, et al. **J Biomol Struct Dyn** 1983 Oct;1(1):169–82 (27 ref.)
Structures of homopurine–homopyrimidine tract in superhelical DNA. Lyamichev VI, et al.
J Biomol Struct Dyn 1986 Feb;3(4):667–9
A pH–dependent structural transition in the homopurine–homopyrimidine tract in superhelical DNA. Lyamichev VI, et al. **J Biomol Struct Dyn** 1985 Oct; 3(2):327–38
Recognition of the structural distortions at the junctions between B and Z segments in negatively supercoiled DNA by osmium tetroxide. Nejedlý K, et al.
J Biomol Struct Dyn 1985 Dec;3(3):467–78
A structural transition in d(AT)n.d(AT)n inserts within superhelical DNA. Panyutin I, et al.
J Biomol Struct Dyn 1985 Jun;2(6):1221–34
Kinetics of cruciform formation and stability of cruciform structure in superhelical DNA. Panyutin I, et al.
J Biomol Struct Dyn 1984 Jun;1(6):1311–24
Structure and dynamics of double helices in solution: modes of DNA bending. Porschke D. **J Biomol Struct Dyn** 1986 Dec;4(3):373–89
Conformational and helicoidal analysis of 30 PS of molecular dynamics on the d(CGCGAATTCGCG) double helix: "curves", dials and windows. Ravishanker G, et al.
J Biomol Struct Dyn 1989 Feb;6(4):669–99
Left–handed Z form in superhelical DNA: a theoretical study. Vologodskii AV, et al. **J Biomol Struct Dyn** 1984 Jun;1(6):1325–33
Structure of plectonemically supercoiled DNA. Boles TC, et al. **J Mol Biol** 1990 Jun 20;213(4):931–51
Evidence for allosteric transitions in secondary structure induced by superhelical stress. Song L, et al.
J Mol Biol 1990 Jul 5;214(1):307–26
Analysis of supercoiled circular plasmids in infectious and non–infectious Borrelia burgdorferi. Simpson WJ, et al.
Microb Pathog 1990 Feb;8(2):109–18
DNA supercoiling and environmental regulation of virulence gene expression in Shigella flexneri. Dorman CJ, et al.
Nature 1990 Apr 19;344(6268):789–92
Energetics of the B–H transition in supercoiled DNA carrying d(CT)x.d(AG)x and d(C)n.d(G)n inserts. Lyamichev VI, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):9417–23
Effect of in vitro transcription on cruciform stability. Morales NM, et al. **Nucleic Acids Res** 1990 May 11;18(9):2777–82
Immunoassays for carbodiimide modified DNA–detection of unpairing transitions in supercoiled ColE1 DNA. Wani AA, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9957–77
Stabilization of Z DNA in vivo by localized supercoiling. Rahmouni AR, et al. **Science** 1989 Oct 20;246(4928):358–63
[Experimental method for studying conformational transitions in DNA] Albiser G, et al.
C R Acad Sci [III] 1989;309(15):611–6 (Eng. Abstr.) **(Fre)**
[Liquid crystalline dispersion of superhelical circular DNA as a base for biosensors] Evdokimov IuM, et al.
Dokl Akad Nauk SSSR 1989;307(5):1262–5 **(Rus)**

ANALYSIS

Bidirectional sequencing of supercoiled plasmid DNA. Valenzuela MS, et al. **Anal Biochem** 1989 Dec; 183(2):258–62
Use of a chemically modified T7 DNA polymerase for manual and automated sequencing of supercoiled DNA. Toneguzzo F, et al. **Biotechniques** 1988 May;6(5):460–9
Dramatic increase in negative superhelicity of plasmid DNA in the forespore compartment of sporulating cells of Bacillus subtilis. Nicholson WL, et al. **J Bacteriol** 1990 Jan; 172(1):7–14
Detection of supercoiled hepatitis B virus DNA and related forms by means of molecular hybridization to an oligonucleotide probe. Lin HJ, et al. **J Med Virol** 1989 Dec;29(4):284–8
Pulse time and agarose concentration affect the electrophoretic mobility of cccDNA during PFGE and FIGE [corrected]. Sobral BW, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7359–69
[Study of the properties of condensed forms of the complexes of linear and supercoiled DNA with mitoxantrone and bisantrene] Salianov VI, et al. **Antibiot Khimioter** 1990 Jan; 35(1):19–22 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Lupus–inducing drugs alter the structure of supercoiled circular DNA domains. Zacharias W, et al.
Arthritis Rheum 1990 Mar;33(3):366–74
DNA strand breaks photosensitized by benoxaprofen and other non steroidal antiinflammatory agents. Artuso T, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):407–13
Effects of chloroquine on the torsional dynamics and rigidities of linear and supercoiled DNAs at low ionic strength. Wu P, et al. **Biopolymers** 1989 Oct; 28(10):1695–703
Gyrase inhibitors can increase gyrA expression and DNA supercoiling. Franco RJ, et al. **J Bacteriol** 1989 Dec; 171(12):6573–9
Modification of ColE1 DNA with osmium tetroxide generates positively supercoiled molecules. Vojtíšková M, et al. **J Biomol Struct Dyn** 1985 Feb;2(5):1013–9
Inhibition of transcription by adriamycin is a consequence of the loss of negative superhelicity in DNA mediated by topoisomerase II. Tarr M, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):141–6
Magnesium–dependent supercoiling–induced transition in (dG)n.(dC)n stretches and formation of a new G–structure by (dG)n strand. Panyutin IG, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8257–71
DNA interaction, cytotoxicity, and radiosensitization with PtCl4(Nile Blue)2 and PtCl4(Neutral Red)2. Teicher BA, et al. **Radiat Res** 1989 Oct;120(1):129–39
[Oscillatory changes in the transcription and supercoiling of minichromosomal DNA after the withdrawal of butyric acid from a mouse cell culture] Kraevskiĭ VA, et al.
Dokl Akad Nauk SSSR 1989;309(4):1008–11 **(Rus)**

GENETICS

Processive recombination by the phage Mu Gin system: implications for the mechanisms of DNA strand exchange, DNA site alignment, and enhancer action. Kanaar R, et al. **Cell** 1990 Jul 27;62(2):353–66
Role of DNA superhelicity in partitioning of the pSC101 plasmid. Miller CA, et al. **Cell** 1990 Jul 13;62(1):127–33
Expression of Salmonella typhimurium genes required for invasion is regulated by changes in DNA supercoiling. Galán JE, et al. **Infect Immun** 1990 Jun;58(6):1879–85
DNA structural polymorphism modulates the kinetics of superhelical DNA cleavage by BamHI restriction endonuclease. Nardone G, et al. **J Biol Chem** 1990 Sep 5;265(25):15308–15
The Escherichia coli minB mutation resembles gyrB in defective nucleoid segregation and decreased negative supercoiling of plasmids. Mulder E, et al.
Mol Gen Genet 1990 Mar;221(1):87–93
An overlap between osmotic and anaerobic stress responses: a potential role for DNA supercoiling in the coordinate regulation of gene expression. Bhrisin NN, et al.
Mol Microbiol 1989 Jul;3(7):933–42
Supercoil–induced unusual DNA structures as transcriptional block. Bagga R, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3363–9
Cooperativity in nucleosomes assembly on supercoiled pBR322 DNA. Forte P, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8683–94
The Hin invertasome: protein–mediated joining of distant recombination sites at the enhancer. Heichman KA, et al. **Science** 1990 Aug 3;249(4968):511–7
[The effect of supercoiling of DNA from colicinogenic plasmids on the expression of col, imm and lys genes] Panchenko IuA, et al. **Mol Biol (Mosk)** 1989 Sep–Oct; 23(5):1340–9 (Eng. Abstr.) **(Rus)**

HISTORY

Through the looking glass: the discovery of supercoiled DNA. Lebowitz J. **Trends Biochem Sci** 1990 May; 15(5):202–7 (14 ref.)

ISOLATION & PURIFICATION

Purification of supercoiled plasmids from crude cell lysates using high performance anion exchange chromatography. Merion M, et al. **Biotechniques** 1989 Jan;7(1):60–7

METABOLISM

The pyrimidine/purine–biased region of the epidermal growth factor receptor gene is sensitive to S1 nuclease and may form an intramolecular triplex. Kato M, et al.
Biochem J 1990 May 15;268(1):175–80
Bleomycin–iron can degrade DNA in the presence of excess ethylenediaminetetraacetic acid in vitro. Solomon LR, et al. **Biochemistry** 1989 Dec 26;28(26):9932–7
Purification and properties of the DNA–binding protein HPB12 from Bacillus subtilis nucleoid. Salti V, et al.
Biochim Biophys Acta 1989 Nov 2;1009(2):161–7
Protein complexation with DNA phosphates as a cause for DNA duplex destabilization: a thermodynamic model. Van Genderen MH, et al. **Biopolymers** 1989 Oct;28(10):1633–65
Intramolecular interference effects in dynamic light scattering: rigid double spirals and superhelical DNAs. Wu PG, et al. **Biopolymers** 1990 Jul–Aug 5;29(8–9):1211–32
Low concentrations of acridine dimers inhibit micrococcus AP endonuclease through interaction with apurinic sites in DNA. Malvy C, et al. **Chem Biol Interact** 1990; 73(2–3):249–60
Active chromatin. Patient RK, et al. **Curr Opin Cell Biol** 1989 Jun;1(3):454–9 (32 ref.)
Action at a distance in Mu DNA transposition: an enhancer–like element is the site of action of supercoiling relief activity by integration host factor (IHF). Surette MG, et al. **EMBO J** 1989 Nov;8(11):3483–9

Interaction of histones H1 and H1(0) with superhelical and linear DNA. Yaneva J, et al. **FEBS Lett** 1990 Apr 24; 263(2):225–8

Cytosine methylation enhances Z–DNA formation in vivo. Zacharias W, et al. **J Bacteriol** 1990 Jun;172(6):3278–83

A role for the metal binding domain in determining the DNA sequence selectivity of Fe–bleomycin. Carter BJ, et al. **J Biol Chem** 1990 Mar 15;265(8):4193–6

The time–resolved kinetics of superhelical DNA cleavage by BamHI restriction endonuclease. Hensley P, et al. **J Biol Chem** 1990 Sep 5;265(25):15300–7

Effects of transcription and translation on gyrase–mediated DNA cleavage in Escherichia coli. Koo HS, et al. **J Biol Chem** 1990 Jul 25;265(21):12300–5

Site–specific chemical modification of B–Z junctions in supercoiled DNA as detected by nuclease S1 digestion, inhibition of restriction cleavage and nucleotide sequencing. Nejedlý K, et al. **J Biomol Struct Dyn** 1988 Oct;6(2):261–75

Chromatin reconstitution on small DNA rings. III. Histone H5 dependence of DNA supercoiling in the nucleosome. Zivanovic Y, et al. **J Mol Biol** 1990 Jul 20;214(2):479–95

Role of calf thymus DNA–topoisomerase I phosphorylation on relaxation activity expression and on DNA–protein interaction. Role of DNA–topoisomerase I phosphorylation. Coderoni S, et al. **Mol Biol Rep** 1990 Feb; 14(1):35–9

New Escherichia coli gyrA and gyrB mutations which have a graded effect on DNA supercoiling. Aleixandre V, et al. **Mol Gen Genet** 1989 Oct;219(1–2):306–12

DNA superhelicity enhances the assembly of transcriptionally active chromatin in vitro. Sekiguchi JM, et al. **Mol Gen Genet** 1989 Dec;220(1):73–80

Superhelical stress restrained in plasmid DNA during repair synthesis initiated by the UvrA, B and C proteins in vitro. Backendorf C, et al. **Nucleic Acids Res** 1989 Dec 25; 17(24):10337–51

Interaction of RecA protein with pBR322 DNA modified by N–hydroxy–2–acetylaminofluorene and 4–hydroxyaminoquinoline 1–oxide. Kojima M, et al. **Nucleic Acids Res** 1990 May 11;18(9):2707–14

Methylene blue plus light mediates 8–hydroxy 2'–deoxyguanosine formation in DNA preferentially over strand breakage. Schneider JE, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):631–5

Reaction parameters of TFIIIA–induced supercoiling catalyzed by a Xenopus laevis cell–free extract. Sekiguchi JA, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1021–9

Purification of a DNA supercoiling factor from the posterior silk gland of Bombyx mori. Ohta T, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5307–11

Changes in nucleoid viscosity following X–irradiation of rat thymic and splenic cells in vitro. Tempel K. **Radiat Environ Biophys** 1990;29(1):19–30

Template supercoiling by a chimera of yeast GAL4 protein and phage T7 RNA polymerase. Ostrander EA, et al. **Science** 1990 Sep 14;249(4974):1261–5

[Relaxation of negatively supercoiled DNA by topoisomerases of 2 types in the presence of tetracycline] Karpenchuk KG, et al. **Dokl Akad Nauk SSSR** 1990; 310(3):741–3 **(Rus)**

PHYSIOLOGY

DNA supercoiling and eukaryotic transcription—cause and effect. Hirose S, et al. **Cell Struct Funct** 1990 Jun; 15(3):133–5 (10 ref.)

Correlation between the DNA supercoiling and the initiation of transcription by Escherichia coli RNA polymerase in vitro: role of the sequences upstream of the promoter region. Mishra RK, et al. **FEBS Lett** 1990 Jan 29; 260(2):273–6

Osmotic regulation of porin expression: a role for DNA supercoiling. Graeme–Cook KA, et al. **Mol Microbiol** 1989 Sep;3(9):1287–94

Bending and supercoiling of DNA at the attachment site of bacteriophage lambda. Nash HA. **Trends Biochem Sci** 1990 Jun;15(6):222–7 (41 ref.)

ULTRASTRUCTURE

Electron microscopy mapping of pBR322 DNA curvature. Comparison with theoretical models. Muzard G, et al. **EMBO J** 1990 Apr;9(4):1289–98

Structure of (dG)n.(dC)n under superhelical stress and acid pH. Lyamichev VI, et al. **J Biomol Struct Dyn** 1987 Oct; 5(2):275–82

B–Z junctions in supercoiled pRW751 DNA contain unpaired bases or non–Watson–Crick base pairs. Paleček E, et al. **J Biomol Struct Dyn** 1987 Oct;5(2):297–306

Electron microscopy of supercoiled pEJ4 DNA containing homopurine.homopyrimidine sequences. Stokrová J, et al. **J Biomol Struct Dyn** 1989 Apr;6(5):891–8

Unusual protonated structure in the homopurine.homopyrimidine tract of supercoiled and linearized plasmids recognized by chemical probes. Vojtíšková M, et al. **J Biomol Struct Dyn** 1987 Oct; 5(2):283–96

DNA, SUPERTWISTED see **DNA, SUPERHELICAL**

DNA TOPOISOMERASE see **DNA UNTWISTING PROTEINS**

DNA TOPOISOMERASE(ATP–HYDROLYSING) see **DNA GYRASE**

DNA TOPOISOMERASE I see **DNA UNTWISTING PROTEINS**

DNA TOPOISOMERASE II see **DNA GYRASE**

DNA UNTWISTING ENZYMES see **DNA UNTWISTING PROTEINS**

DNA UNTWISTING PROTEINS

Processive recombination by the phage Mu Gin system: implications for the mechanisms of DNA strand exchange, DNA site alignment, and enhancer action. Kanaar R, et al. **Cell** 1990 Jul 27;62(2):353–66

DNA topoisomerases. Hsieh T. **Curr Opin Cell Biol** 1990 Jun;2(3):461–3 (21 ref.)

Rapid purification and structural study of DNA topoisomerase I from human Burkitt lymphoma Raji cells. Suzuki M, et al. **J Biochem (Tokyo)** 1989 Nov;106(5):742–4

The carboxyl terminal domain of Escherichia coli DNA topoisomerase I confers higher affinity to DNA. Beran–Steed RK, et al. **Proteins** 1989;6(3):249–58

Peptide sequencing and site–directed mutagenesis identify tyrosine–319 as the active site tyrosine of Escherichia coli DNA topoisomerase I. Lynn RM, et al. **Proteins** 1989; 6(3):231–9

ANTAGONISTS & INHIBITORS

Inhibitory effects of quinolone antibacterial agents on eucaryotic topoisomerases and related test systems. Gootz TD, et al. **Antimicrob Agents Chemother** 1990 Jan; 34(1):8–12 (52 ref.)

Effect of antineoplastic agents on the DNA cleavage/religation reaction of eukaryotic topoisomerase II: inhibition of DNA religation by etoposide. Osheroff N. **Biochemistry** 1989 Jul 25;28(15):6157–60

Topoisomerase–targeting antitumor drugs. D'Arpa P, et al. **Biochim Biophys Acta** 1989 Dec 17;989(2):163–77 (165 ref.)

DNA topoisomerase dysfunction: a new goal for antitumor chemotherapy. Smith PJ. **Bioessays** 1990 Apr;12(4):167–72 (47 ref.)

A model for tumor cell killing by topoisomerase poisons. Zhang H, et al. **Cancer Cells** 1990 Jan;2(1):23–7 (32 ref.)

Diverse effects of camptothecin, an inhibitor of topoisomerase I, on the cell cycle of lymphocytic (L1210, MOLT–4) and myelogenous (HL–60, KG1) leukemic cells. Del Bino G, et al. **Cancer Res** 1990 Sep 15;50(18):5746–50

Differential requirement of DNA replication for the cytotoxicity of DNA topoisomerase I and II inhibitors in Chinese hamster DC3F cells. Holm C, et al. **Cancer Res** 1989 Nov 15;49(22):6365–8

Potentiation of topoisomerase inhibitor–induced DNA strand breakage and cytotoxicity by tumor necrosis factor: enhancement of topoisomerase activity as a mechanism of potentiation. Utsugi T, et al. **Cancer Res** 1990 May 1; 50(9):2636–40

Acidic phospholipids directly inhibit DNA binding of mammalian DNA topoisomerase I. Tamura H, et al. **FEBS Lett** 1990 Feb 12;261(1):151–4

Topostin, a novel inhibitor of mammalian DNA topoisomerase I from Flexibacter topostinus sp. nov. II. Purification and some properties of topostin. Ikegami Y, et al. **J Antibiot (Tokyo)** 1990 Feb;43(2):158–62

Topostin, a novel inhibitor of mammalian DNA topoisomerase I from Flexibacter topostinus sp. nov. I. Taxonomy, and fermentation of producing strain. Suzuki K, et al. **J Antibiot (Tokyo)** 1990 Feb;43(2):154–7

Microbial DNA topoisomerases and their inhibition by antibiotics. Zimmer C, et al. **J Basic Microbiol** 1990; 30(3):209–24 (119 ref.)

Inhibitors of topoisomerases I and II arrest DNA replication, but do not prevent nucleosome assembly in vivo. Annunziato AT. **J Cell Sci** 1989 Aug;93 (Pt 4):593–603

Topoisomerases, new targets in cancer chemotherapy. Zijlstra JG, et al. **Med Oncol Tumor Pharmacother** 1990; 7(1):11–8 (108 ref.)

Effects of morpholinyl doxorubicins, doxorubicin, and actinomycin D on mammalian DNA topoisomerases I and II. Wassermann K, et al. **Mol Pharmacol** 1990 Jul; 38(1):38–45

Comparison of effects of fostriecin, novobiocin, and camptothecin, inhibitors of DNA topoisomerases, on DNA replication and repair in human cells. Gedik CM, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1007–13

Distamycin inhibition of topoisomerase I–DNA interaction: a mechanistic analysis. Mortensen UH, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):1983–9

Transcription of adenovirus and HeLa cell genes in the presence of drugs that inhibit topoisomerase I and II function. Schaak J, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1499–508

Topoisomerase inhibitors suppress release of globin sequences into small soluble DNA in erythroblasts. Strauss PR. **Prog Clin Biol Res** 1990;352:249–56

DNA topoisomerase I—targeted chemotherapy of human colon cancer in xenografts. Giovanella BC, et al. **Science** 1989 Nov 24;246(4933):1046–8

Rapid evaluation of topoisomerase inhibitors: caffeine inhibition of topoisomerases in vivo. Shin CG, et al. **Teratogenesis Carcinog Mutagen** 1990;10(1):41–52

[Inhibitors of DNA topoisomerases] Andoh T. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):330–4 (Eng. Abstr.) **(Jpn)**

DIAGNOSTIC USE

A recombinant topoisomerase I used for autoantibody detection in sera from patients with systemic sclerosis. Verheijen R, et al. **Clin Exp Immunol** 1990 Apr;80(1):38–43

DRUG EFFECTS

Quantitative adaptation of the bacteriophage P4 DNA unknotting assay for use in the biochemical and pharmacological characterization of topoisomerase II. Hofmann GA, et al. **Anticancer Drug Des** 1990 Aug; 5(3):273–82

Effect of topoisomerase modulators on cisplatin cytotoxicity in human ovarian carcinoma cells. Katz EJ, et al. **Eur J Cancer** 1990;26(6):724–7

GENETICS

Expression of the topoisomerase I gene in serum stimulated human fibroblasts. Romig H, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2–3):274–80

Expression of human DNA topoisomerase I in yeast cells lacking yeast DNA topoisomerase I: restoration of sensitivity of the cells to the antitumor drug camptothecin. Bjornsti MA, et al. **Cancer Res** 1989 Nov 15;49(22):6318–23

Phenotypic selection and characterization of mutant alleles of a eukaryotic DNA topoisomerase I. Morham SG, et al. **Genes Dev** 1990 Apr;4(4):515–24

Localization of the active type I DNA topoisomerase gene on human chromosome 20q11.2–13.1, and two pseudogenes on chromosomes 1q23–24 and 22q11.2–13.1. Kunze N, et al. **Hum Genet** 1989 Dec;84(1):6–10

Molecular cloning and DNA sequence analysis of Escherichia coli topB, the gene encoding topoisomerase III. DiGate RJ, et al. **J Biol Chem** 1989 Oct 25; 264(30):17924–30

Unknotting the complexities of multidrug resistance: the involvement of DNA topoisomerases in drug action and resistance. Beck WT. **J Natl Cancer Inst** 1989 Nov 15; 81(22):1683–5

Nonproductive rearrangement of DNA topoisomerase I and II genes: correlation with resistance to topoisomerase inhibitors. Tan KB, et al. **J Natl Cancer Inst** 1989 Nov 15;81(22):1732–5

Expression of the recA gene is reduced in Escherichia coli topoisomerase I mutants. Urios A, et al. **Mutat Res** 1990 Apr;243(4):267–72

Expression of the type I DNA topoisomerase gene in adenovirus–5 infected human cells. Romig H, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):801–8

The presence of the region on pBR322 that encodes resistance to tetracycline is responsible for high levels of plasmid DNA knotting in Escherichia coli DNA topoisomerase I deletion mutant. Shishido K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9749–59

Determination of an epitope of the diffuse systemic sclerosis marker antigen DNA topoisomerase I: sequence similarity with retroviral p30gag protein suggests a possible cause for autoimmunity in systemic sclerosis. Maul GG, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8492–6

Mapping the active–site tyrosine of vaccinia virus DNA topoisomerase I. Shuman S, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9793–7

Identification and DNA sequence of the Shope fibroma virus DNA topoisomerase gene. Upton C, et al. **Virology** 1990 Jun;176(2):439–47

Human topoisomerase 1 messenger RNA is not destabilized by the herpes simplex virus type 2 virion–associated shut–off function. Bastow KF, et al. **Virus Genes** 1989 Aug; 2(4):357–65

[Topoisomerase I from human placenta. Functional activity of products of expression of cloned cDNA fragments] Bronshtein IB, et al. **Mol Biol (Mosk)** 1989 Nov–Dec; 23(6):1553–7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Antikinetochore and antitopoisomerase I antibodies in systemic scleroderma: comparative study using immunoblotted recombinant antigens, immunofluorescence, and double immunodiffusion. Jarzabek–Chorzelska M, et al. **Arch Dermatol Res** 1990;282(2):76–83

The IgG, IgM, and IgA isotypes of anti–topoisomerase I and anticentromere autoantibodies. Hildebrandt S, et al. **Arthritis Rheum** 1990 May;33(5):724–7

Plant DNA topoisomerase I is recognized and inhibited by human Scl–70 sera autoantibodies. Agris PF, et al. **Exp Cell Res** 1990 Aug;189(2):276–9

Determination of an epitope of the diffuse systemic sclerosis marker antigen DNA topoisomerase I: sequence similarity with retroviral p30gag protein suggests a possible cause for autoimmunity in systemic sclerosis. Maul GG, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8492–6

METABOLISM

Fluorometric methods employing low concentrations of ethidium bromide for DNA topoisomerase and endonuclease assays. Foglesong PD. **Anal Biochem** 1989

Nov 1;182(2):284–8
In vitro assays used to measure the activity of topoisomerases. Barrett JF, et al. **Antimicrob Agents Chemother** 1990 Jan; 34(1):1–7 (102 ref.)
Biochemical characteristics and physiological significance of major DNA topoisomerases. Sutcliffe JA, et al. **Antimicrob Agents Chemother** 1989 Dec;33(12):2027–33 (116 ref.)
DNA topoisomerase I from Alcaligenes eutrophus H16. Anděra L, et al. **Arch Microbiol** 1990;153(2):134–8
Transient activation of topoisomerase I in leukotriene D4 signal transduction in human cells. Mattern MR, et al. **Biochem J** 1990 Jan 1;265(1):101–7
Stimulation of intracellular topoisomerase I activity by vasopressin and thrombin. Differential regulation by pertussis toxin. Nambi P, et al. **Biochem J** 1989 Sep 1; 262(2):485–9
Camptothecin-stabilized topoisomerase I–DNA adducts cause premature termination of transcription. Bendixen C, et al. **Biochemistry** 1990 Jun 12;29(23):5613–9
DNA topoisomerase I from human placenta. Holden JA, et al. **Biochim Biophys Acta** 1990 Jul 30;1049(3):303–10
DNA topoisomerase I as a site of action for 10-hydroxycamptothecin in human promyelocytic leukemia cells. Ling YH, et al. **Cancer Biochem Biophys** 1990 Jan;11(1):23–30
Increased ATP requirement for activity of and complex formation by DNA topoisomerase II from human leukemic CCRF-CEM cells selected for resistance to teniposide. Danks MK, et al. **Cancer Commun** 1989;1(2):101–9
Rapid increase in the activity of DNA topoisomerase I, but not topoisomerase II, in HL-60 promyelocytic leukemia cells treated with a phorbol diester. Gorsky LD, et al. **Cancer Commun** 1989;1(2):83–92
Rapid induction of c-fos transcription reveals quantitative linkage of RNA polymerase II and DNA topoisomerase I enzyme activities. Stewart AF, et al. **Cell** 1990 Jan 12; 60(1):141–9
The role of DNA topoisomerases in recombination and genome stability: a double-edged sword? Wang JC, et al. **Cell** 1990 Aug 10;62(3):403–6
Induction of sister chromatid exchanges by inhibitors of topoisomerases. Lim M, et al. **Cell Biol Toxicol** 1986 Dec; 2(4):485–94
DNA topoisomerases. Sternglanz R. **Curr Opin Cell Biol** 1989 Jun;1(3):533–5 (13 ref.)
Reverse gyrase binding to DNA alters the double helix structure and produces single-strand cleavage in the absence of ATP. Jaxel C, et al. **EMBO J** 1989 Oct; 8(10):3135–9
Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products. Nash HA, et al. **EMBO J** 1989 Nov; 8(11):3523–33
Protein kinase C phosphorylates DNA topoisomerase I. Samuels DS, et al. **FEBS Lett** 1989 Dec 18;259(1):57–60
Phosphorylation sites for type N II protein kinase in DNA-topoisomerase I from calf thymus. Coderoni S, et al. **Int J Biochem** 1990;22(7):737–46
Poly(ADP-ribose)-mediated post-translational modification of chromatin-associated human topoisomerase I. Inhibitory effects on catalytic activity. Kasid UN, et al. **J Biol Chem** 1989 Nov 5;264(31):18687–92
Phosphorylation of mammalian DNA topoisomerase I and activation by protein kinase C. Pommier Y, et al. **J Biol Chem** 1990 Jun 5;265(16):9418–22
Minimal DNA duplex requirements for topoisomerase I-mediated cleavage in vitro. Svejstrup JQ, et al. **J Biol Chem** 1990 Jul 25;265(21):12529–35
The histone H3/H4.N1 complex supplemented with histone H2A-H2B dimers and DNA topoisomerase I forms nucleosomes on circular DNA under physiological conditions. Zucker K, et al. **J Biol Chem** 1990 Aug 25; 265(24):14487–96
Specificity and flexibility of the recognition of DNA helical structure by eukaryotic topoisomerase I. Shen CC, et al. **J Mol Biol** 1990 Mar 5;212(1):67–78
Topoisomerase I and II cleavage of adenovirus DNA in vivo: both topoisomerase activities appear to be required for adenovirus DNA replication. Schaack J, et al. **J Virol** 1990 Jan;64(1):78–85
Topoisomerase I sites cluster asymmetrically at the ends of the simian virus 40 core origin of replication. Tsui S, et al. **J Virol** 1989 Dec;63(12):5175–83
Involvement of topoisomerases in replication, transcription, and packaging of the linear adenovirus genome. Wong ML, et al. **J Virol** 1990 Feb;64(2):691–9
Role of calf thymus DNA-topoisomerase I phosphorylation on relaxation activity expression and on DNA-protein interaction. Role of DNA-topoisomerase I phosphorylation. Coderoni S, et al. **Mol Biol Rep** 1990 Feb; 14(1):35–9
Topoisomerase I is associated with the regulatory region of transcriptionally active SV 40 minichromosomes. Vassetzky YS Jr, et al. **Mol Cell Biochem** 1990 Jun 25; 95(2):95–106
DNA topoisomerases and models of sister-chromatid exchange. Dillehay LE, et al. **Mutat Res** 1989 Nov; 215(1):15–23
In vitro preferential topoisomerization of bent DNA. Caserta M, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8463–74
Sequence dependent modulating effect of camptothecin on the DNA-cleaving activity of the calf thymus type I topoisomerase. Gromova II, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):637–45
Archaebacterial reverse gyrase cleavage-site specificity is similar to that of eubacterial DNA topoisomerases I. Kovalsky OI, et al. **Nucleic Acids Res** 1990 May 11; 18(9):2801–5
Interaction of topoisomerase 1 with the transcribed region of the Drosophila HSP 70 heat shock gene. Kroeger PE, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8495–509
The basis for camptothecin enhancement of DNA breakage by eukaryotic topoisomerase I. Porter SE, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8521–32
DNA topoisomerases as potential targets of antiviral action. Kreuzer KN. **Pharmacol Ther** 1989;43(3):377–95 (156 ref.)
[Relaxation of negatively supercoiled DNA by topoisomerases of 2 types in the presence of tetracycline] Karpenchuk KG, et al. **Dokl Akad Nauk SSSR** 1990; 310(3):741–3 **(Rus)**
[Topoisomerase I cleavage site in the regulatory zone of transcriptionally active minichromosomes of the SV40 virus located adjacent to a region, hypersensitive to DNAase I and segments recognizing topoisomerase II] Vasetskiĭ ES, et al. **Dokl Akad Nauk SSSR** 1989; 306(6):1493–6 **(Rus)**

PHARMACOLOGY

DNA binding and intercalation by novel porphyrins: role of charge and substituents probed by DNase I footprinting and topoisomerase I unwinding. Kuroda R, et al. **FEBS Lett** 1990 Mar 26;262(2):293–8

PHYSIOLOGY

Evidence for the participation of topoisomerases I and II in cadmium-induced metallothionein expression in Chinese hamster ovary cells. Mattern MR, et al. **Anticancer Drug Des** 1989 Aug;4(2):107–24
Role of DNA topoisomerase I in the replication of herpes simplex virus type 2. Yamada Y, et al. **Arch Virol** 1990; 110(1–2):121–7
Chemotherapy: topoisomerases as targets [editorial] **Lancet** 1990 Jan 13;335(8681):82–3
The involvement of topoisomerases and DNA polymerase I in the mechanism of induced thermal and radiation resistance in yeast. Boreham DR, et al. **Radiat Res** 1990 Aug;123(2):203–12

DNA UNWINDING PROTEINS

Resonance Raman spectroscopy of complexes of the helix destabilizing proteins GP32 and GP5 with poly(rA) and poly(dA). Otto C, et al. **J Biomol Struct Dyn** 1988 Aug; 6(1):35–49
A model for the complex between the helix destabilizing protein GP32 of bacteriophage T4 and single-stranded DNA. Scheerhagen MA, et al. **J Biomol Struct Dyn** 1989 Feb;6(4):701–6
The conformation of the complex of the helix destabilizing protein GP32 of bacteriophage T4 and single stranded DNA. Scheerhagen MA, et al. **J Biomol Struct Dyn** 1985 Feb;2(4):821–9
Simian virus 40 origin auxiliary sequences weakly facilitate T-antigen binding but strongly facilitate DNA unwinding. Gutierrez C, et al. **Mol Cell Biol** 1990 Apr;10(4):1719–28
Functional analyses of Proteus mirabilis wild-type and mutant RecBCD enzymes in Escherichia coli reveal a new mutant phenotype. Weichenhan D, et al. **Mol Microbiol** 1989 Dec;3(12):1777–84
Conserved helicase motifs in the PIF protein. Seraphin B. **Nucleic Acids Res** 1990 Feb 11;18(3):661

GENETICS

A presumed DNA helicase encoded by ERCC-3 is involved in the human repair disorders xeroderma pigmentosum and Cockayne's syndrome. Weeda G, et al. **Cell** 1990 Aug 24; 62(4):777–91
Nucleotide sequence of the traI (helicase I) gene from the sex factor F. Bradshaw HD Jr, et al. **J Bacteriol** 1990 Jul; 172(7):4127–31
Dystrophin in electric organ of Torpedo californica homologous to that in human muscle. Chang HW, et al. **J Biol Chem** 1989 Dec 15;264(35):20831–4
DNA and nucleotide-induced conformational changes in the Escherichia coli Rep and helicase II (UvrD) proteins. Chao K, et al. **J Biol Chem** 1990 Jan 15;265(2):1067–76
Nucleotide sequence of the promoter-distal region of the tra operon of plasmid R100, including traI (DNA helicase I) and traD genes. Yoshioka Y, et al. **J Mol Biol** 1990 Jul 5;214(1):39–53
Three domains in the simian virus 40 core origin orchestrate the binding, melting, and DNA helicase activities of T antigen. Parsons R, et al. **J Virol** 1990 Feb;64(2):509–18
RADH, a gene of Saccharomyces cerevisiae encoding a putative DNA helicase involved in DNA repair. Characteristics of radH mutants and sequence of the gene. Aboussekhra A, et al. **Nucleic Acids Res** 1989 Sep 25; 17(18):7211–9
Evolutionary relationship between luteoviruses and other RNA plant viruses based on sequence motifs in their putative RNA polymerases and nucleic acid helicases. Habili N, et al. **Nucleic Acids Res** 1989 Dec 11; 17(23):9543–55
Escherichia coli RecQ protein is a DNA helicase. Umezu K, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5363–7

ISOLATION & PURIFICATION

Purification and characterization of Rad3 ATPase/DNA helicase from Saccharomyces cerevisiae. Harosh I, et al. **J Biol Chem** 1989 Dec 5;264(34):20532–9
DNA helicase from calf thymus. Purification to apparent homogeneity and biochemical characterization of the enzyme. Thömmes P, et al. **J Biol Chem** 1990 Aug 25; 265(24):14347–54

METABOLISM

DNA helicases. Matson SW, et al. **Annu Rev Biochem** 1990; 59:289–329 (306 ref.)
Effects of the bacteriophage T4 gene 41 and gene 32 proteins on RNA primer synthesis: coupling of leading- and lagging-strand DNA synthesis at a replication fork. Cha TA, et al. **Biochemistry** 1990 Feb 20;29(7):1791–8
The AAV origin binding protein Rep68 is an ATP-dependent site-specific endonuclease with DNA helicase activity. Im DS, et al. **Cell** 1990 May 4;61(3):447–57
SV40 T antigen catalyzed duplex DNA unwinding. Scheffner M, et al. **Curr Top Microbiol Immunol** 1989;144:37–45
The DNA unwinding element: a novel, cis-acting component that facilitates opening of the Escherichia coli replication origin. Kowalski D, et al. **EMBO J** 1989 Dec 20; 8(13):4335–44
Escherichia coli DNA helicase I. Characterization of the protein and of its DNA-binding properties. Benz I, et al. **Eur J Biochem** 1990 Apr 30;189(2):267–76
Electron microscopy of DNA.helicase-I complexes in the act of strand separation. Wessel R, et al. **Eur J Biochem** 1990 Apr 30;189(2):277–85
Eukaryotic DNA helicases. Thömmes P, et al. **FEBS Lett** 1990 Aug 1;268(2):325–8 (23 ref.)
Host virus interactions in the initiation of bacteriophage lambda DNA replication. Recruitment of Escherichia coli DnaB helicase by lambda P replication protein. Mallory JB, et al. **J Biol Chem** 1990 Aug 5;265(22):13297–307
Mapping of helicase and helicase substrate-binding domains on simian virus 40 large T antigen. Wun-Kim K, et al. **J Virol** 1990 May;64(5):2014–20
Structure and associated DNA-helicase activity of a general transcription initiation factor that binds to RNA polymerase II. Sopta M, et al. **Nature** 1989 Oct 5; 341(6241):410–4
Herpes simplex virus helicase-primase: the UL8 protein is not required for DNA-dependent ATPase and DNA helicase activities. Calder JM, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3573–8
Mouse p53 blocks SV40 DNA replication in vitro and downregulates T antigen DNA helicase activity. Stürzbecher HW, et al. **Oncogene** 1988 Oct;3(4):405–13
An RNA polymerase II transcription factor has an associated DNA-dependent ATPase (dATPase) activity strongly stimulated by the TATA region of promoters. Conaway RC, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(19):7356–60
Escherichia coli replication termination protein impedes the action of helicases. Lee EH, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9104–8
Escherichia coli helicase II (UvrD) protein initiates DNA unwinding at nicks and blunt ends. Runyon GT, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6383–7

PHYSIOLOGY

Is La protein involved in autoimmunization and inflammatory events during disease? Characterization of La protein as an unwinding enzyme. Bachmann M, et al. **Mol Biol Rep** 1990;14(2–3):49–50

DNA, VIRAL

see related
DNA VIRUSES

Relationship of E1 and E3 regions of human adenovirus 35 to those of human adenovirus subgroups A, C and D. Kang WG, et al. **Acta Microbiol Hung** 1989;36(4):445–57
Characterization of the African HIV-1 isolate CBL-4 (RUT) by partial sequence analysis and virus neutralization with peptide antibody and antisense phosphate-methylated DNA [published erratum appears in AIDS 1990 Jul;4(7):following A44] Goudsmit J, et al. **AIDS** 1990 Jun; 4(6):559–64
In situ hybridization analysis for herpes simplex virus nucleic acids in Alzheimer disease. Walker DG, et al. **Alzheimer Dis Assoc Disord** 1989 Fall;3(3):123–31
Fatal adenovirus pneumonia in a newborn identified by electron microscopy and in situ hybridization. Abbondanzo SL, et al. **Arch Pathol Lab Med** 1989 Dec;113(12):1349–53
Nucleotide sequence of a 3.5 kilobase fragment of malignant catarrhal fever virus strain WC11. Hsu D, et al. **Arch Virol** 1990;113(1–2):53–60
Comparative sequence analysis of VP7 genes from five Australian porcine rotaviruses. Huang J, et al. **Arch Virol** 1989;109(3–4):173–83
Restriction fragment pattern analysis of genomes from French isolates of suis herpes virus 1 (Aujeszky's disease virus). Jestin A, et al. **Arch Virol** 1990;112(3–4):149–67

Release of mycoplasmavirus L1 upon transfection of Acholeplasma laidlawii with homologous and heterologous viral DNA. Just W, et al. **Arch Virol** 1989;107(1-2):1-13

Synthesis in vitro and application of biotinylated DNA probes for human papilloma virus type 16 by utilizing the polymerase chain reaction. Day PJ, et al. **Biochem J** 1990 Apr 1;267(1):119-23

Structural study of the lipid-containing bacteriophage PRD1 and its capsid and DNA components by laser Raman spectroscopy. Bamford DH, et al. **Biochemistry** 1990 Jun 26;29(25):5982-7

Photoelectron imaging of DNA. Griffith OH, et al. **Biopolymers** 1990 Aug 15-Sep;29(10-11):1491-3

Single-step labeling of DNA using restriction endonucleases and T4 polynucleotide kinase. Oommen A, et al. **Biotechniques** 1990 May;8(5):482, 484, 486

Transforming proteins of DNA tumor viruses. **Curr Top Microbiol Immunol** 1989;144:1-284

Bluetongue viruses. Appendix. **Curr Top Microbiol Immunol** 1990;162:179-93

Can sperm capture foreign DNA for expression in the embryo? [letter; comment] Witkin SS. **Fertil Steril** 1989 Oct;52(4):692-3 Comment on: Fertil Steril 1989 May;51(5):756-8.

Primary structure of bacteriophage M2 DNA polymerase: conserved segments within protein-priming DNA polymerases and DNA polymerase I of Escherichia coli. Matsumoto K, et al. **Gene** 1989 Dec 14;84(2):247-55

Molecular cloning and physical mapping of the DNA of Miscanthus streak geminivirus. Ikegami M, et al. **Intervirology** 1989;30(6):340-5

Natural occurrence of left-handed (Z) regions in PM2 DNA. Miller FD, et al. **J Biomol Struct Dyn** 1983 Dec;1(3):611-20

A quantitative measure of DNA curvature enabling the comparison of predicted structures. Tung CS, et al. **J Biomol Struct Dyn** 1987 Feb;4(4):553-9

Stability distribution in the phage lambda-DNA double helix: a correlation between physical and genetic structure. Wada A, et al. **J Biomol Struct Dyn** 1984 Dec;2(3):573-91

A simple and rapid procedure for the direct detection of cytomegalovirus in urine samples. Landini MP, et al. **J Clin Lab Anal** 1990;4(3):161-4

Vaccines, cells, and nucleic acids. Workshop on vaccines prepared in continuous mammalian cell lines and by recombinant systems. London, July 1989. Proceedings. **J Med Virol** 1990 May;31(1):1-66

Polymerase chain reaction for studies of mother to child transmission of HIV1 in Africa. Paterlini P, et al. **J Med Virol** 1990 Jan;30(1):53-7

Application of the method of phage T4 DNA ligase-catalyzed ring-closure to the study of DNA structure. I. Computational analysis. Hagerman PJ, et al. **J Mol Biol** 1990 Mar 20;212(2):351-62

Saturation mutagenesis of a DNA region of bend. Base steps other than ApA influence the bend. Milton DL, et al. **J Mol Biol** 1990 May 5;213(1):135-40

Application of the method of phage T4 DNA ligase-catalyzed ring-closure to the study of DNA structure. II. NaCl-dependence of DNA flexibility and helical repeat. Taylor WH, et al. **J Mol Biol** 1990 Mar 20;212(2):363-76

Neurodegenerative disease induced by the wild mouse ecotropic retrovirus is markedly accelerated by long terminal repeat and gag-pol sequences from nondefective Friend murine leukemia virus. Portis JL, et al. **J Virol** 1990 Apr;64(4):1648-56

Transfection of cloned Heliothis zea cell lines with the DNA genome of the Heliothis zea nuclear polyhedrosis virus. Corsaro BG, et al. **J Virol Methods** 1989 Sep;25(3):283-91

Modification of cytosine residues on DNA. Viscidi RP. **Methods Enzymol** 1990;184:600-7

Blunt-ended ligation can be used to produce DNA ladders with rung spacing as large as 0.17 Mb. Louie D, et al. **Nucleic Acids Res** 1990 May 25;18(10):3090

Effect of in vitro transcription on cruciform stability. Morales NM, et al. **Nucleic Acids Res** 1990 May 11;18(9):2777-82

Biochemical and biophysical studies on the folding of the core region of the origin of replication of bacteriophage M13. van Belkum A, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4703-10

The degradation of T7 DNA in converging flow. Zimm BH, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4469-70

Interconvertible hairpin structure found in the replication origin of phage G4 single-stranded DNA. Hirao I, et al. **Nucleic Acids Symp Ser** 1989;(21):13-4

Sequence-specific recognition and cleavage of duplex DNA via triple-helix formation by oligonucleotides covalently linked to a phenanthroline-copper chelate. François JC, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9702-6

Nucleotide sequence and transcriptional studies of the vaccinia virus KpnI I DNA fragment. Tengelsen LA, et al. **Virus Genes** 1989 Nov;3(2):175-87

ADMINISTRATION & DOSAGE

Selective inamortalization of a phenotypically distinct epithelial cell type by microinjection of SV40 DNA into cultured human milk cells. Bartek J, et al. **Int J Cancer** 1990 Jun 15;45(6):1105-12

ANALYSIS

Comparison of the detection of cervical human papillomavirus infection by filter DNA hybridization of cytologic specimens and by in situ DNA hybridization of tissues. Neumann R, et al. **Acta Cytol** 1990 Mar-Apr;34(2):115-8

High ratio of HTLV-1-infected cells in HTLV-1 associated myelopathy (HAM). Nishimura M, et al. **Acta Neurol Scand** 1990 Mar;81(3):209-14

Detection of human papilloma virus in women referred for colposcopy. A comparison between different diagnostic methods. Bodén E, et al. **Acta Obstet Gynecol Scand** 1990;69(2):153-9

Detection of human papillomavirus type 11 DNA in a conjunctival squamous cell papilloma by in situ hybridization with biotinylated probes. Mäntyjärvi M, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):425-9

DNA restriction enzyme analysis of a bovine herpesvirus 1 strain isolated from encephalitis in Hungary. Magyar G, et al. **Acta Vet Hung** 1989;37(4):349-52

Detection of viral DNA and activation of latent herpes simplex virus in the rabbit neural tissue. Kúdelová M, et al. **Acta Virol (Praha)** 1990 Apr;34(2):120-31

An alternative approach for induction of chromosomal banding and preservation of chromosomal morphology for virus DNA mapping by in situ hybridization. Mincheva A. **Acta Virol (Praha)** 1989 Dec;33(6):582-5

A rapid method for in situ hybridization for viral DNA in brain biopsies from patients with AIDS. Houff SA, et al. **AIDS** 1989 Dec;3(12):843-5

The polymerase chain reaction in the diagnosis of vertically transmitted HIV infection. Williams P, et al. **AIDS** 1990 May;4(5):393-8

Detection of HIV DNA in peripheral blood by the polymerase chain reaction: a study of clinical applicability and performance. Young KK, et al. **AIDS** 1990 May; 4(5):389-91

Plus strand of the HIV provirus DNA is expressed at early stages of infection [letter] [published erratum appears in AIDS Res Hum Retroviruses 1990 Jun;6(6):825] Bukrinsky MI, et al. **AIDS Res Hum Retroviruses** 1990 Apr;6(4):425-6

Detection and typing of human papillomavirus in histologic specimens by in situ hybridization with biotinylated DNA probes. Garuti G, et al. **Am J Clin Pathol** 1989 Nov; 92(5):604-12

Three sensitive methods for the detection of cytomegalovirus in lung tissue of patients with interstitial pneumonitis. Jiwa M, et al. **Am J Clin Pathol** 1990 Apr;93(4):491-4

Potential and problems of the in situ molecular detection of viral genomes [editorial; comment] Stoler MH, et al. **Am J Clin Pathol** 1990 May;93(5):714-6 Comment on: Am J Clin Pathol 1990 May;93(5):675-9.

In situ hybridization studies for viral nucleic acids in heart and lung allograft biopsies [see comments] Weiss LM, et al. **Am J Clin Pathol** 1990 May;93(5):675-9 Comment in: Am J Clin Pathol 1990 May;93(5):714-6.

Presence of human papillomavirus deoxyribonucleic acid [letter; comment] Beckmann AM, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1419-20 Comment on: Am J Obstet Gynecol 1988 Apr;158(4):862-71.

Detection of hepatitis B virus DNA in formalin-fixed, paraffin-embedded liver tissue by the polymerase chain reaction. Lampertico P, et al. **Am J Pathol** 1990 Aug; 137(2):253-8

Analysis of DNA in fresh and fixed tissue by the polymerase chain reaction. Rogers BB, et al. **Am J Pathol** 1990 Mar; 136(3):541-8

Human immunodeficiency viral DNA is readily found in lymph node biopsies from seropositive individuals. Analysis of fixed tissue using the polymerase chain reaction. Shibata D, et al. **Am J Pathol** 1989 Oct;135(4):697-702

Human papillomavirus DNA in genital tract lesions histologically negative for condylomata. Analysis by in situ, Southern blot hybridization and the polymerase chain reaction. Nuovo GJ. **Am J Surg Pathol** 1990 Jul; 14(7):643-51

Detection of human papillomavirus DNA in penile lesions histologically negative for condylomata. Analysis by in situ hybridization and the polymerase chain reaction. Nuovo GJ, et al. **Am J Surg Pathol** 1990 Sep;14(9):829-36

Excretion of porcine parvovirus through the genital tract of boars. Gradil C, et al. **Am J Vet Res** 1990 Mar; 51(3):359-62

Prevalence of antibodies to alcelaphine herpesvirus-1 and nucleic acid hybridization analysis of viruses isolated from captive exotic ruminants. Seal BS, et al. **Am J Vet Res** 1989 Sep;50(9):1447-53

Differentiation of avian adenovirus type-II strains by restriction endonuclease fingerprinting. Zhang C, et al. **Am J Vet Res** 1989 Sep;50(9):1466-70

A comparison of chemiluminescent and colorimetric substrates in a hepatitis B virus DNA hybridization assay. Bronstein I, et al. **Anal Biochem** 1989 Jul;180(1):95-8

Quantitative fluorescence of DNA-intercalated ethidium bromide on agarose gels. Ribeiro EA, et al. **Anal Biochem** 1989 Sep;181(2):197-208

Visualization of single copies of the Epstein-Barr virus genome by in situ hybridization. Teo CG, et al. **Anal Biochem** 1990 Apr;186(1):78-85

Detection of human immunodeficiency virus in infected CEM cells using fluorescent DNA probes and a laser-based computerized image cytofluorometry system. Hart L, et al. **Anal Quant Cytol Histol** 1990 Apr;12(2):127-34

Persistence of hepatitis B virus DNA demonstrated by polymerase chain reaction in serum and liver after loss of HBsAg induced by antiviral therapy. Marcellin P, et al. **Ann Intern Med** 1990 Feb 1;112(3):227-8

Integration of HPV-16 DNA in cervical carcinoma cell line CC3/CUHK3 and its xenografts. Yiu KC, et al. **Anticancer Res** 1990 Jul-Aug;10(4):917-22

Basic concepts and practical applications of recombinant DNA techniques in detection of human papillomavirus (HPV) infection. Review article. Syrjänen SM. **APMIS** 1990 Feb;98(2):95-110 (65 ref.)

DNA hybridization assay for detection of gypsy moth nuclear polyhedrosis virus in infected gypsy moth (Lymantria dispar L.) larvae. Keating ST, et al. **Appl Environ Microbiol** 1989 Nov;55(11):2749-54

Detection of human papillomavirus in nongenital Bowen's disease by in situ DNA hybridization. Kettler AH, et al. **Arch Dermatol** 1990 Jun;126(6):777-81

Detection of herpes simplex virus DNA in a cutaneous squamous cell carcinoma by in situ hybridization. Claudy AL, et al. **Arch Dermatol Res** 1989;281(5):333-5

In situ hybridization analysis of HPV DNA in cervical precancer and cervical cancers from China. Ji HX, et al. **Arch Gynecol Obstet** 1990;247(1):21-9

Human papillomavirus DNA in a recurrent squamous carcinoma of the eyelid. McDonnell JM, et al. **Arch Ophthalmol** 1989 Nov;107(11):1631-4

Human papillomavirus DNA in squamous cell carcinoma of the upper aerodigestive tract. Ishibashi T, et al. **Arch Otolaryngol Head Neck Surg** 1990 Mar;116(3):294-8

Correlation of in situ hybridization with histology and viral culture in patients with acquired immunodeficiency syndrome with cytomegalovirus colitis [see comments] Clayton F, et al. **Arch Pathol Lab Med** 1989 Oct; 113(10):1124-6 Comment in: Arch Pathol Lab Med 1990 Jul;114(7):639.

Analysis of human immunodeficiency virus and cytomegalovirus infection by polymerase chain reaction in the acquired immunodeficiency syndrome. An autopsy study. Shibata D, et al. **Arch Pathol Lab Med** 1989 Nov; 113(11):1239-44

Anal cancer. Microscopic condyloma and tissue demonstration of human papillomavirus capsid antigen and viral DNA. Taxy JB, et al. **Arch Pathol Lab Med** 1989 Oct;113(10):1127-31

Longitudinal study of human papillomavirus infection of the female urogenital tract by in situ hybridization. Wilson RW, et al. **Arch Pathol Lab Med** 1990 Feb;114(2):155-9

Structural analysis of proviral DNA in simian foamy virus (LK-3)-infected cells. Schweizer M, et al. **Arch Virol** 1989; 109(1-2):103-14

Preparation of a detailed restriction map of the avian leukosis virus MAV-2(O). Aurigemma RE, et al. **Avian Dis** 1990 Jan-Mar;34(1):99-105

The use of biotin-labeled cDNA probes for the detection of infectious bursal disease viruses. Jackwood DJ, et al. **Avian Dis** 1990 Jan-Mar;34(1):129-36

Detection of fowlpox virus DNA by in situ hybridization using a biotinylated probe. Tanizaki E, et al. **Avian Dis** 1990 Apr-Jun;34(2):374-80

Characterization of SV40-transformed human cells by immunofluorescence and fluorescent in situ hybridization techniques. Prelle A, et al. **Basic Appl Histochem** 1989; 33(3):179-83

There are two major types of hepatitis C virus in Japan. Enomoto N, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1021-5

Quantitative analysis of human immunodeficiency virus type-1 DNA in asymptomatic carriers using the polymerase chain reaction. Oka S, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):1-8

Evaluation of type D retroviruses as diagnostic tools in HIV infections. Krause H, et al. **Biomed Biochim Acta** 1989; 48(8):539-47

Simple screening for the presence of antibiotic resistant CAT gene plasmids in bacteria. Alter DC, et al. **Biotechniques** 1989 Mar;7(3):247-8

Detection of human papilloma virus DNA sequences by polymerase chain reaction. Sarkar FH, et al. **Biotechniques** 1990 Aug;9(2):180-5

Single copies of HIV proviral DNA detected by fluorescent in situ hybridization. Spadoro JP, et al. **Biotechniques** 1990 Aug;9(2):186-95

Human papillomaviruses in anogenital warts in children: typing by in situ hybridisation. Padel AF, et al. **BMJ** 1990 Jun 9;300(6738):1491-4

Frequency of hepatic HBV-DNA in patients with cirrhosis and hepatocellular carcinoma: relation to serum HBV markers. White YS, et al. **Br J Cancer** 1990 Jun; 61(6):909-12

EBV and Hodgkin's cells. Kubonishi I, et al. **Br J Haematol** 1990 Jun;75(2):286-7

Human papillomavirus and cervical intraepithelial neoplasia in women who subsequently had invasive cancer. Caussy D, et al. **Can Med Assoc J** 1990 Feb 15;142(4):311-7

Influence of human papillomavirus on DNA ploidy determination in genital condylomas. Chacho MS, et al. **Cancer** 1990 May 15;65(10):2291-4

Nonisotopic human papillomavirus DNA typing of cervical smears obtained at the initial colposcopic examination. Duggan MA, et al. **Cancer** 1990 Aug 15;66(4):745-51

The demonstration of human papillomavirus 16 genomes in the nuclei of genital cancers using two different methods

of in situ hybridization. Grussendorf-Conen EI, et al. **Cancer** 1990 Jan 15;65(2):238–41

Lymphomatoid granulomatosis in the acquired immunodeficiency syndrome. Evidence of Epstein–Barr virus infection and B-cell clonal selection without myc rearrangement. Mittal K, et al. **Cancer** 1990 Mar 15; 65(6):1345–9

Human papillomavirus type 16/18 in uterine cervical adenocarcinoma in situ and adenocarcinoma. A study by in situ hybridization with biotinylated DNA probes. Nielsen AL. **Cancer** 1990 Jun 1;65(11):2588–93

Anti-human T-cell lymphotrophic virus type I antibody-positive adult T-cell leukemia/lymphoma with no monoclonal proviral DNA. A clinicopathologic and immunologic study. Yoshida T, et al. **Cancer** 1989 Dec 15;64(12):2515–24

T-cell lymphomas emerging as epineoplasms in mice bearing transplanted polyoma virus–induced salivary gland tumors. Dawe CJ, et al. **Cancer Res** 1990 Sep 1;50(17 Suppl):5643S–5648S

A congenic line of the BALB/c mouse strain with the endogenous mouse mammary tumor virus proviral gene Mtv-3: tissue-specific expression and correlation with resistance to mouse mammary tumor virus infection and tumorigenesis. Hainaut P, et al. **Cancer Res** 1990 Jun 15; 50(12):3754–60

Endogenous retroviral elements in human DNA. Leib-Mösch C, et al. **Cancer Res** 1990 Sep 1;50(17 Suppl):5636S–5642S (85 ref.)

Identification and nucleotide sequence of attachment site of the Cflt filamentous phage from Xanthomonas campestris pv. citri. Fann JH, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Aug;22(3):151–62

Detection of herpes viral genomes in normal and diseased corneal epithelium. Crouse CA, et al. **Curr Eye Res** 1990 Jun;9(6):569–81

HPV 16-positive bowenoid papulosis and squamous-cell carcinoma of the anus in an HIV-positive man. Rüdlinger R, et al. **Dis Colon Rectum** 1989 Dec;32(12):1042–5

Detection of phocine distemper virus using the polymerase chain reaction. Haas L, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):93–5

The biology of bovine herpesvirus-4 infection of cattle. Thiry E, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb; 97(2):72–7 (62 ref.)

HBV-DNA, HBeAg/anti-HBe serological status in hepatitis B chronic individuals from central Italy. Rapicetta M, et al. **Epidemiol Infect** 1990 Jun;104(3):511–7

Presence of human papillomavirus type-6-related sequences in inverted nasal papillomas. Ishibashi T, et al. **Eur Arch Otorhinolaryngol** 1990;247(5):296–9

Cytochemical study of the localization and organization of parental herpes simplex virus type I DNA during initial infection of the cell. Puvion-Dutilleul F, et al. **Eur J Cell Biol** 1989 Oct;50(1):187–200

Prevalence of HBeAg, anti-HBe serological markers and HBV-DNA in asymptomatic carriers in Ethiopia. Rapicetta M, et al. **Eur J Epidemiol** 1989 Dec;5(4):481–5

Structural analysis of proviruses in additional hamster tumour cell lines transformed by provirus II rescued from XC cells and definition of a new cell line harbouring amplified proviruses. Pichrtová J, et al. **Folia Biol (Praha)** 1989; 35(4):239–53

A cDNA clone encoding a peptide highly specific for hepatitis C infection. Arima T, et al. **Gastroenterol Jpn** 1990 Apr;25(2):218–22

Detection of hepatitis B virus DNA in serum by polymerase chain reaction. Application for clinical diagnosis. Kaneko S, et al. **Gastroenterology** 1990 Sep;99(3):793–8

Detection of hepatitis B virus DNA in serum by polymerase chain reaction. Application for clinical diagnosis. Kaneko S, et al. **Gastroenterology** 1990 Sep;99(3):799–804

Detection of human papillomavirus DNA in semen from patients with intrameatal penile warts. Green J, et al. **Genitourin Med** 1989 Dec;65(6):357–60

Detection of human papilloma virus DNA in semen from patients with intrameatal penile warts [letter] Griffiths M. **Genitourin Med** 1990 Jun;66(3):229–30

Absence of human papillomavirus (HPV) DNA sequences in epithelial ovarian carcinoma [letter; comment] Kaufman RH, et al. **Gynecol Oncol** 1990 Apr;37(1):148 Comment on: Gynecol Oncol 1989 Sep;34(3):268–73.

Extrahepatic replication of duck hepatitis B virus: more than expected. Hosoda K, et al. **Hepatology** 1990 Jan;11(1):44–8

Identification and characterization of intrahepatic hepatitis B virus DNA in HBsAg-seronegative patients with chronic liver disease and hepatocellular carcinoma in Taiwan. Lai MY, et al. **Hepatology** 1990 Sep;12(3 Pt 1):575–81

Study of stringency conditions for human papillomavirus DNA detection on cell lines, frozen and paraffin-embedded tissue sections by in situ hybridization with biotinylated probes. Guerin-Reverchon I, et al. **Histochemistry** 1990; 93(6):637–43

In situ detection of cytomegalovirus DNA in biopsies of AIDS patients using a hybrido-immunocytochemical assay. Musiani M, et al. **Histochemistry** 1990;94(1):21–5

Detection of human papillomavirus in skin and genital lesions of renal allograft recipients by in situ hybridization. Blessing K, et al. **Histopathology** 1990 Feb;16(2):181–5

Detection of human papillomavirus DNA in squamous bronchial metaplasia and squamous cell carcinomas of the lung by in situ hybridization using biotinylated probes in paraffin-embedded specimens. Béjui-Thivolet F, et al. **Hum Pathol** 1990 Jan;21(1):111–6

Use of the polymerase chain reaction in the diagnosis of unsuspected herpes simplex viral pneumonia: report of a case. Geradts J, et al. **Hum Pathol** 1990 Jan;21(1):118–21

Nasopharyngeal carcinoma in children—a retrospective review and demonstration of Epstein–Barr viral genomes in tumor cell cytoplasm: a report of the Pediatric Oncology Group. Hawkins EP, et al. **Hum Pathol** 1990 Aug; 21(8):805–10

Cytomegalovirus nucleic acids in allografted hearts [letter] Hruban RH, et al. **Hum Pathol** 1990 Sep;21(9):981–2

HPV DNA detection in cervical swabs [letter] Nuovo GJ. **Hum Pathol** 1989 Oct;20(10):1030

Demonstration of Epstein–Barr virus in primary central nervous system lymphomas by the polymerase chain reaction and in situ hybridization. Rouah E, et al. **Hum Pathol** 1990 May;21(5):545–50

Human papillomavirus (HPV) DNA in esophageal precancer lesions and squamous cell carcinomas from China. Chang F, et al. **Int J Cancer** 1990 Jan 15;45(1):21–5

General primer-mediated polymerase chain reaction permits the detection of sequenced and still unsequenced human papillomavirus genotypes in cervical scrapes and carcinomas. van den Brule AJ, et al. **Int J Cancer** 1990 Apr 15;45(4):644–9

Occurrence of human papillomavirus DNA types 16 and 18 (HPV-16/18) in cervical smears as compared to cytological findings. Köchel HG, et al. **Int J Gynaecol Obstet** 1990 Feb;31(2):145–52

HIV genome in seronegative partners of HIV infected subjects. Vonesch N, et al. **Ital J Biochem** 1989 Nov-Dec; 38(6):400A–404A

Differences in PCR reactivity between HIV proviruses from individuals in Ethiopia and Sweden. Ayehunie S, et al. **J Acquir Immune Defic Syndr** 1990;3(10):975–80

Detection and characterization of HIV-1 by polymerase chain reaction. Krone WJ, et al. **J Acquir Immune Defic Syndr** 1990;3(5):517–24

Terminal nucleotides of the preintegrative linear form of HIV-1 DNA deduced from the sequence of circular DNA junctions. Kulkosky J, et al. **J Acquir Immune Defic Syndr** 1990;3(9):852–8

The bof gene of bacteriophage P1: DNA sequence and evidence for roles in regulation of phage c1 and ref genes. Schaefer TS, et al. **J Bacteriol** 1990 Jun;172(6):3269–77

Physical maps of the streptococcal bacteriophage A25 and C1 genomes. Pomrenke ME, et al. **J Basic Microbiol** 1989; 29(6):395–8

Separation of DNA restriction fragments by high-performance ion-exchange chromatography on a non-porous ion exchanger. Kato Y, et al. **J Chromatogr** 1989 Sep 8;478(1):264–8

Vertical transmission of human T-cell leukemia virus type I (HTLV-I): detection of proviral DNA in HTLV-I carrier gravida. Saji F, et al. **J Clin Immunol** 1989 Sep; 9(5):409–14

Detection of enzymatically amplified human immunodeficiency virus DNA by oligonucleotide solution hybridization and by incorporation of radiolabeled deoxynucleotides. Carman WF, et al. **J Clin Microbiol** 1989 Nov;27(11):2570–3

Polymerase chain reaction assay of parvovirus B19 DNA in clinical specimens. Clewley JP. **J Clin Microbiol** 1989 Dec;27(12):2647–51

Direct detection of cytomegalovirus from bronchoalveolar lavage samples by using a rapid in situ DNA hybridization assay. Gleaves CA, et al. **J Clin Microbiol** 1989 Nov; 27(11):2429–32

Amplification of human papillomavirus DNA sequences by using conserved primers. Gregoire L, et al. **J Clin Microbiol** 1989 Dec;27(12):2660–5

Rapid quantitation of DNA spot hybridization by flatbed scintillation counting. Hyypiä T, et al. **J Clin Microbiol** 1990 Jan;28(1):159–62

Detection of hepatitis B virus DNA in serum by polymerase chain reaction amplification and microtiter sandwich hybridization. Keller GH, et al. **J Clin Microbiol** 1990 Jun; 28(6):1411–6

Detection of human papillomavirus DNA in prostate gland tissue by using the polymerase chain reaction amplification assay. McNicol PJ, et al. **J Clin Microbiol** 1990 Mar; 28(3):409–12

Rapid detection of herpes simplex virus in clinical samples by flow cytometry after amplification in tissue culture. McSharry JJ, et al. **J Clin Microbiol** 1990 Aug;28(8):1864–6

In situ hybridisation in herpetic lesions using a biotinylated DNA probe. Dictor M, et al. **J Clin Pathol** 1990 May; 43(5):416–9

Combined non-isotopic in situ hybridisation and immunohistochemistry on routine paraffin wax embedded tissue: identification of cell type infected by human parvovirus and demonstration of cytomegalovirus DNA and antigen in renal infection. Porter HJ, et al. **J Clin Pathol** 1990 Feb;43(2):129–32

DNA hybridisation of routinely processed tissue for detecting HPV DNA in anal squamous cell carcinomas over 40 years. Scholefield JH, et al. **J Clin Pathol** 1990 Feb;43(2):133–6

Characterization of phi GA1, an inducible phage particle from Brevibacterium flavum. Sonnen H, et al. **J Gen Microbiol** 1990 Mar;136 (Pt 3):567–71

Molecular cloning and physical mapping of the DNA of bovine adenovirus serotype 4; study of the DNA homology among bovine, human and porcine adenoviruses. Benkö M, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):465–9

Bovine herpesvirus 4 genome: cloning, mapping and strain variation analysis. Bublot M, et al. **J Gen Virol** 1990 Jan; 71 (Pt 1):133–42

Localization of human papillomavirus type 16 DNA using the polymerase chain reaction in the cervix uteri of women with cervical intraepithelial neoplasia. Cornelissen MT, et al. **J Gen Virol** 1989 Oct;70 (Pt 10):2555–62

The use of general primers in the polymerase chain reaction permits the detection of a broad spectrum of human papillomavirus genotypes. Snijders PJ, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):173–81

The genome type of human parvovirus B19 strains isolated in Japan during 1981 differs from types detected in 1986 to 1987: a correlation between genome type and prevalence. Umene K, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):983–6

Hepatitis B virus (HBV) markers and HBV-DNA in serum and liver tissue of patients with acute exacerbation of chronic type B hepatitis. Raimondo G, et al. **J Hepatol** 1990 May;10(3):271–3

Enhanced chemiluminescence for tissue antigen and cellular viral DNA detection. Hawkins E, et al. **J Histochem Cytochem** 1990 Mar;38(3):415–9

A hybrido-immunocytochemical assay for the in situ detection of cytomegalovirus DNA using digoxigenin-labeled probes. Gentilomi G, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):177–83

A comparison of methods for the detection of human papillomavirus DNA by in situ hybridization with biotinylated probes on human carcinoma cell lines. Application to wart sections. Guérin-Reverchon I, et al. **J Immunol Methods** 1989 Oct 24;123(2):167–76

Enzymatic amplification of the human immunodeficiency virus in peripheral blood mononuclear cells from pediatric patients. Chadwick EG, et al. **J Infect Dis** 1989 Dec; 160(6):954–9

Differentiation of cytomegalovirus strains by restriction analysis of DNA sequences amplified from clinical specimens. Chou SW. **J Infect Dis** 1990 Sep;162(3):738–42

Concordance of polymerase chain reaction with human immunodeficiency virus antibody detection. Horsburgh CR Jr, et al. **J Infect Dis** 1990 Aug;162(2):542–5

Detection of mouse cytomegalovirus nucleic acid in latently infected mice by in vitro enzymatic amplification. Klotman ME, et al. **J Infect Dis** 1990 Feb;161(2):220–5

Detection of human immunodeficiency virus DNA using the polymerase chain reaction in a well-characterized group of homosexual and bisexual men. Lifson AR, et al. **J Infect Dis** 1990 Mar;161(3):436–9

Detection of JC virus DNA by polymerase chain reaction in patients with progressive multifocal leukoencephalopathy. Telenti A, et al. **J Infect Dis** 1990 Oct;162(4):858–61

DNA polymorphism among isolates from multiple sites of a patient with chronic herpes simplex virus, type 1 infection. Alam TM, et al. **J Med Virol** 1989 Nov; 29(3):186–91

Persistence of hepatitis A virus in fulminant hepatitis and after liver transplantation. Fagan E, et al. **J Med Virol** 1990 Feb;30(2):131–6

A rapid and simplified micromethod for subtyping varicella-zoster virus. Gharabaghi F, et al. **J Med Virol** 1990 Jun;31(2):129–34

Human papillomavirus infection of the uterine cervix analyzed by nonisotopic in situ hybridization. Hara Y, et al. **J Med Virol** 1990 Jun;31(2):120–8

DNA dot-blot hybridization implicates human papillomavirus type 11-DNA in epithelioma cuniculatum. Knobler RM, et al. **J Med Virol** 1989 Sep;29(1):33–7

Detection of human cytomegalovirus early and late antigen and DNA production in cell culture and the effects of dimethyl sulfoxide, dexamethasone, and DNA inhibitors on early antigen induction. Li SB, et al. **J Med Virol** 1990 Feb;30(2):97–102

Nested polymerase chain reaction assay for the detection of cytomegalovirus overcomes false positives caused by contamination with fragmented DNA. Porter-Jordan K, et al. **J Med Virol** 1990 Feb;30(2):85–91

Clonal origin of mammalian hepatitis B virus-related hepatocellular carcinoma. Shimoda A, et al. **J Med Virol** 1990 Apr;30(4):282–6

Efficiency of the polymerase chain reaction for the detection of human immunodeficiency virus type (HIV-1) DNA in the lymphocytes of infected persons: comparison to antigen-enzyme-linked immunosorbent assay and virus isolation. Stoeckl E, et al. **J Med Virol** 1989 Dec; 29(4):249–55

Detection of integrated hepatitis B virus DNA in hepatocellular carcinoma cell lines by nonradioactive in situ hybridization. Tay N, et al. **J Med Virol** 1990 Apr; 30(4):266–71

Herpes simplex virus (HSV) DNA in microglial nodular brainstem encephalitis. Schmidbauer M, et al. **J Neuropathol Exp Neurol** 1989 Nov;48(6):645–52

Evaluation of oral and laryngeal specimens for human papillomavirus (HPV) DNA by dot blot hybridization. Greer RO Jr, et al. **J Oral Pathol Med** 1990 Jan;19(1):35–8

Human papilloma virus in erosive oral lichen planus. Jonteli M, et al. **J Oral Pathol Med** 1990 Jul;19(6):273–7

Demonstration of Epstein–Barr viral DNA in formalin–fixed, paraffin–embedded samples of Hodgkin's disease. Libetta CM, et al. **J Pathol** 1990 Jul;161(3):255–60

Morphology, distribution and its significance of intrahepatic HBV DNA in liver disease: a study by in situ hybridization. Zhang YY, et al. **J Tongji Med Univ** 1989;9(4):204–9

Etiology of acute exacerbation in patients with severe chronic active hepatitis by in situ HBVDNA hybridization technique. Zhang YY, et al. **J Tongji Med Univ** 1990; 10(1):5–9

Levels of Epstein–Barr virus DNA in lymphoblastoid cell lines are correlated with frequencies of spontaneous lytic growth but not with levels of expression of EBNA–1, EBNA–2, or latent membrane protein. Metzenberg S. **J Virol** 1990 Jan;64(1):437–44

The average number of molecules of Epstein–Barr nuclear antigen 1 per cell does not correlate with the average number of Epstein–Barr virus (EBV) DNA molecules per cell among different clones of EBV–immortalized cells. Sternås L, et al. **J Virol** 1990 May;64(5):2407–10

The use of primers from highly conserved pol regions to identify uncharacterized retroviruses by the polymerase chain reaction. Donehower LA, et al. **J Virol Methods** 1990 Apr;28(1):33–46

Hybridization techniques provide improved sensitivity for HCMV detection and allow quantitation of the virus in clinical samples. Einsele H, et al. **J Virol Methods** 1989 Oct;26(1):91–104

The use of a hybridization assay for the study of host defences against herpes simplex virus. Fluit AC, et al. **J Virol Methods** 1989 Dec;26(3):269–78

Detection of human papilloma virus (HPV) DNA in genital biopsy specimens by in situ hybridization with digoxigenin–labeled probes. Heino P, et al. **J Virol Methods** 1989 Dec;26(3):331–7

Non–isotopic detection of HPV DNA in cervical smears using dot–blot hybridization. Inoue M, et al. **J Virol Methods** 1989 Nov;26(2):159–69

Comparison of polyethylene glycol precipitation and ultracentrifugation for recovery of cytomegalovirus from urine prior to detection of DNA by dot–blot hybridisation. Kimpton CP, et al. **J Virol Methods** 1990 May;28(2):141–5

An automatic modified polymerase chain reaction procedure for hepatitis B virus DNA detection. Larzul D, et al. **J Virol Methods** 1990 Jan;27(1):49–60

Differential detection of viral DNA and RNA in situ in cells infected with human cytomegalovirus. McCarrey JR, et al. **J Virol Methods** 1989 Sep;25(3):301–14

Evaluation of sensitivity of different antigen and DNA–hybridization methods in African swine fever virus detection. Pastor MJ, et al. **J Virol Methods** 1990 Apr; 28(1):67–77

Detection of Epstein–Barr virus DNA in nasopharyngeal carcinoma using a non–radioactive digoxigenin–labelled probe. Permeen AM, et al. **J Virol Methods** 1990 Mar; 27(3):261–7

Detection of human papillomavirus type 16 DNA in cervical swabs and formalin–fixed, paraffin–embedded squamous cell carcinomas of non–genital tissues using a synthetic oligodeoxynucleotide probe. Rakoczy P, et al. **J Virol Methods** 1989 Sep;25(3):325–36

Subtyping hepatitis B virus DNA in free or integrated forms by amplification of the S–gene sequences by the polymerase chain reaction and single–track sequencing for adenine. Yotsumoto S, et al. **J Virol Methods** 1990 May;28(2):107–16

Amplification and specific detection of transforming gene region of human papillomavirus 16, 18 and 33 in cervical carcinoma by means of the polymerase chain reaction. Shimada M, et al. **Jpn J Cancer Res** 1990 Jan;81(1):1–5

Detection of Epstein–Barr virus DNA in Reed–Sternberg cells of Hodgkin's disease using the polymerase chain reaction and in situ hybridization. Uhara H, et al. **Jpn J Cancer Res** 1990 Mar;81(3):272–8

No evidence of HTLV–1 infection in Japanese multiple sclerosis patients in polymerase chain reaction. Watanabe T, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1017–20

Hepatitis B virus DNA integration in hepatocellular carcinomas and their adjacent non–neoplastic liver tissues. Ding JJ, et al. **Keio J Med** 1989 Dec;38(4):443–53

In ovo infection with the avian retrovirus RAV–1 leads to persistent infection of the central nervous system. Ewert DL, et al. **Lab Invest** 1990 Feb;62(2):156–62

Hepatitis C virus upstanding. **Lancet** 1990 Jun 16; 335(8703):1431–2 (20 ref.)

Subtypes of human papillomavirus 16 in cervical tissue [letter; comment] **Lancet** 1989 Dec 2;2(8675):1342–3 Comment on: Lancet 1989 Jun 3;1(8649):1225–7.

Anti–contamination primers to improve specificity of polymerase chain reaction in human papillomavirus screening [letter] Beyer–Finkler E, et al. **Lancet** 1990 May 26;335(8700):1289–90

Prion dementia without characteristic pathology. Collinge J, et al. **Lancet** 1990 Jul 7;336(8706):7–9

Detection by PCR of HHV–6 and EBV DNA in blood and oropharynx of healthy adults and HIV–seropositives [letter] Gopal MR, et al. **Lancet** 1990 Jun 30;335(8705):1598–9

Identification of a UK outbreak strain of Neisseria meningitidis with a DNA probe [see comments] Knight AI, et al. **Lancet** 1990 May 19;335(8699):1182–4 Comment in: Lancet 1990 Jul 7;336(8706):53. Comment in: Lancet 1990 Jul 7;336(8706):53–4.

HIV–1 DNA proviral sequences in fresh urine pellets from HIV–1 seropositive persons [letter] Li JJ, et al. **Lancet** 1990 Jun 30;335(8705):1590–1

Evidence for intrafamilial transmission of hepatitis B virus from sequence analysis of mutant HBV DNAs in two Chinese families. Lin HJ, et al. **Lancet** 1990 Jul 28; 336(8709):208–12

Demonstration of mother–to–infant transmission of hepatitis B virus by means of polymerase chain reaction [see comments] Mitsuda T, et al. **Lancet** 1989 Oct 14; 2(8668):886–8 Comment in: Lancet 1990 Feb 3;335(8684):302.

Source of contamination in polymerase chain reaction assay [letter; comment] [see comments] Porter–Jordan K, et al. **Lancet** 1990 May 19;335(8699):1220 Comment on: Lancet 1989 Dec 9;2(8676):1363–5. Comment in: Lancet 1990 Jun 23;335(8704):1540.

Association between poor prognosis in early–stage invasive cervical carcinomas and non–detection of HPV DNA. Riou G, et al. **Lancet** 1990 May 19;335(8699):1171–4

Polymerase chain reaction testing of HIV–1 seronegative at–risk individuals [letter] Shoebridge GI, et al. **Lancet** 1990 Jul 21;336(8708):180–1

HBV–DNA by in situ hybridization. A method to improve sensitivity on formalin–fixed, paraffin–embedded liver biopsies. Infantolino D, et al. **Liver** 1989 Dec;9(6):360–6

Detection of human papillomavirus deoxyribonucleic acid in the female genital tract. Czeglédy J, et al. **Med Microbiol Immunol (Berl)** 1989;178(6):309–14

Restriction site mapping of adenovirus prototypes of subgenus D. Wigand R, et al. **Med Microbiol Immunol (Berl)** 1990;179(2):67–75

Preparation and uses of photobiotin. McInnes JL, et al. **Methods Enzymol** 1990;184:588–600

Detection of varicella–zoster virus DNA by field–inversion gel electrophoresis. Arao Y, et al. **Microbiol Immunol** 1990; 34(3):269–82

Computer analysis between nucleotide and amino acid sequences of bean golden mosaic virus and those of maize streak, wheat dwarf, chloris striate mosaic, and beet curly top viruses. Ikegami M. **Microbiol Immunol** 1989; 33(10):863–9

Characterization of replicative form DNA of the autonomous parvovirus mink enteritis virus. Shinagawa M, et al. **Microbiol Immunol** 1989;33(9):721–32

Lymphoepithelial carcinoma of the stomach with Epstein–Barr virus demonstrated by polymerase chain reaction. Burke AP, et al. **Mod Pathol** 1990 May; 3(3):377–80

In situ hybridization using a biotinylated DNA probe on formalin–fixed liver biopsies with hepatitis B virus infections: in situ hybridization superior to immunochemistry. Choi YJ. **Mod Pathol** 1990 May; 3(3):343–7

State of hepatitis B viral genomes in cirrhotic and hepatocellular carcinoma nodules. Aoki N, et al. **Mol Biol Med** 1989 Oct;6(5):395–408

Genetics and molecular pathogenesis of Legionella pneumophila, an intracellular parasite of macrophages. Cianciotto N, et al. **Mol Biol Med** 1989 Oct;6(5):490–24 (155 ref.)

Polyethylene glycol increases specificity of hybridization typing of HPV specimens. Auvinen E, et al. **Mol Cell Probes** 1989 Sep;3(3):289–98

Rapid detection of herpes simplex virus DNA by in situ hybridization with photobiotin–labelled double–stranded DNA probes. Chantratita W, et al. **Mol Cell Probes** 1989 Dec;3(4):363–73

Identification of HIV–1 infected seropositive subjects by a direct diagnostic test involving hybridization of amplified viral DNA. Lucotte G, et al. **Mol Cell Probes** 1989 Sep; 3(3):299–306

A rapid DNA probe test for detecting human papilloma virus types 6/11 and 16 in biopsy specimens. Todd JA, et al. **Mol Cell Probes** 1989 Sep;3(3):273–88

Latent varicella–zoster viral DNA in human trigeminal and thoracic ganglia. Mahalingam R, et al. **N Engl J Med** 1990 Sep 6;323(10):627–31

Polymerase chain reaction to detect hepatitis B virus DNA and RNA sequences in primary liver cancers from patients negative for hepatitis B surface antigen. Paterlini P, et al. **N Engl J Med** 1990 Jul 12;323(2):80–5

Avoidance of PCR false positives [corrected] [letter] [published erratum appears in Nature 1990 Mar 29;344(6265):388] Kitchin PA, et al. **Nature** 1990 Mar 15; 344(6263):201

HBV–DNA and primary immune complex glomerulonephritis [letter] Rostoker G, et al. **Nephron** 1990; 54(1):101

Differentiation of vaccine and field strains of bovine herpesvirus type 1 by restriction endonuclease analysis. Hamelin C, et al. **Nippon Juigaku Zasshi** 1990 Jun; 52(3):461–7

Sensitivity of in situ hybridization for detection of human papillomavirus (HPV) as studied in HPV type 16–transfected cells. Hayashi Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Dec; 41(12):2011–2

A replication–deficient HIV–1 DNA used for quantitation of the polymerase chain reaction (PCR). Hart C, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4029–30

Adenovirus and minute virus of mice DNAs are localized at the nuclear periphery. Moen PT Jr, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):513–20

Fast solid support detection of PCR amplified viral DNA sequences using radioiodinated or hapten labelled primers. Sauvaigo S, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3175–83

Enhancing cervical cancer detection using nucleic acid hybridization and acetic acid tests. Ficsor G, et al. **Nurse Pract** 1990 Jul;15(7):26, 29–30

Micropapillomatosis labialis appears unrelated to human papillomavirus. Bergeron C, et al. **Obstet Gynecol** 1990 Aug;76(2):281–6

Human papillomavirus DNA in CO2 laser–generated plume of smoke and its consequences to the surgeon. Ferenczy A, et al. **Obstet Gynecol** 1990 Jan;75(1):114–8

Human papillomavirus DNA in fomites on objects used for the management of patients with genital human papillomavirus infections. Ferenczy A, et al. **Obstet Gynecol** 1989 Dec;74(6):950–4

Human papillomavirus DNA in invasive carcinoma of the vagina. Ikenberg H, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):432–8

A comparison of slot blot, southern blot, and in situ hybridization analyses for human papillomavirus DNA in genital tract lesions. Nuovo GJ, et al. **Obstet Gynecol** 1989 Oct;74(4):673–8

Cordocentesis for the diagnosis and treatment of human fetal parvovirus infection. Peters MT, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):501–4

Human papillomavirus DNA in situ hybridization may be used for the quality control of genital tract biopsies. Richart RM, et al. **Obstet Gynecol** 1990 Feb;75(2):223–6

Detection of human papillomavirus DNA before and after development of invasive vulvar cancer. Van Sickle M, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 2):540–2

Human papillomavirus genotype as a prognostic indicator in carcinoma of the uterine cervix. Walker J, et al. **Obstet Gynecol** 1989 Nov;74(5):781–5

Discordant human immunodeficiency virus infection in dizygotic twins detected by polymerase chain reaction. Young KK, et al. **Pediatr Infect Dis J** 1990 Jun;9(6):454–6

Influence of selection for egg production and Marek's disease resistance on the incidence of endogenous viral genes in White Leghorns. Kuhnlein U, et al. **Poult Sci** 1989 Sep; 68(9):1161–7

Adenovirus 6 genome types: mapping of restriction site alterations on the genome. Adrian T, et al. **Res Virol** 1989 Nov–Dec;140(6):545–50

Potential infectivity of blood from HBsAg asymptomatic carriers due to the presence of HBV–DNA and comparison with other markers of HBV infection. Tedeschi MV, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec; 31(6):377–83

Detection of human papillomavirus DNA in cytologic specimens derived from esophageal precancer lesions and cancer. Chang F, et al. **Scand J Gastroenterol** 1990 Apr; 25(4):383–8

Use of a DNA probe in the diagnosis of enzootic bovine leukemia. Peirone B, et al. **Schweiz Arch Tierheilkd** 1990; 132(3):139–45

Studies on the structure of HBV DNA. Qi ZH, et al. **Sci China [B]** 1989 Nov;32(11):1318–28

PCR analysis of DNA from multiple sclerosis patients for the presence of HTLV–I. **Science** 1989 Nov 10; 246(4931):821–4

Restriction endonuclease analysis of deoxyribonucleic acid (DNA) from genital herpes simplex virus type 2 isolates in Thailand. Chantratita W, et al. **Sex Transm Dis** 1990 Jan–Mar;17(1):42–7

Factor analysis for the presence of serum HBV DNA in chronic hepatitis B virus infection. Chuang WL, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Sep;88(9):874–8

Detection of human papillomavirus DNA in genital condylomata in women and their male partners by using in situ hybridization with digoxygenin labeled probes. Konno R, et al. **Tohoku J Exp Med** 1990 Apr;160(4):383–90

Detection of human papillomavirus type 52b in cervical dysplastic tissue. Yaegashi N, et al. **Tohoku J Exp Med** 1989 Nov;159(3):215–9

Virus detection by DNA in situ hybridization in renal transplantation—a new perspective for differential diagnosis of virus infection versus rejection. Arndt R, et al. **Transplant Proc** 1990 Aug;22(4):1803–4

Changes in the restriction endonuclease patterns of four modified–live infectious bovine rhinotracheitis virus (IBRV) vaccines after one passage in host animal. Whetstone C, et al. **Vaccine** 1989 Dec;7(6):527–32

Equine herpesvirus type 1: detection of viral DNA sequences in aborted fetuses with the polymerase chain reaction. Ballagi–Pordány A, et al. **Vet Microbiol** 1990 May; 22(4):373–81

A study of the predominant genotypes of bovid herpesvirus 1 found in the U.K. Edwards S, et al. **Vet Microbiol** 1990 Apr;22(2–3):213–23

Rapid detection of pseudorabies virus genomic sequences in biological samples from infected pigs using polymerase chain reaction DNA amplification. Jestin A, et al. **Vet Microbiol** 1990 Jun;23(1–4):317–28

Sequence comparison of cellular and viral copies of host cell DNA insertions found in Autographa californica nuclear polyhedrosis virus. Beames B, et al. **Virology** 1990 Feb; 174(2):354–63

5–Azacytidine–resistant mutants of Chlorella virus IL–3A.

Burbank DE, et al. **Virology** 1990 May;176(1):311–5

Mutational analysis of single-stranded DNA templates active in the in vitro initiation assay for adenovirus DNA replication. Dobbs L, et al. **Virology** 1990 Sep;178(1):43–51

DNA sequence of mutations induced in cells by herpes simplex virus type-1. Hwang CB, et al. **Virology** 1990 Sep; 178(1):180–8

Molecular cloning of a type D retrovirus from human cells (PMFV) and its homology to simian acquired immunodeficiency type D retroviruses. Krause H, et al. **Virology** 1989 Nov;173(1):214–22

Quantized viral DNA packaging revealed by rotating gel electrophoresis. Lane T, et al. **Virology** 1990 Feb; 174(2):472–8

Infection and uptake of duck hepatitis B virus by duck hepatocytes maintained in the presence of dimethyl sulfoxide. Pugh JC, et al. **Virology** 1989 Oct;172(2):564–72

Characterization of cDNAs of spliced HPV-11 E2 mRNA and other HPV mRNAs recovered via retrovirus-mediated gene transfer. Rotenberg MO, et al. **Virology** 1989 Oct; 172(2):468–77

Oncogenicity and U3 region sequences of class II recombinant MuLVs of CWD mice. Thomas CY, et al. **Virology** 1990 May;176(1):166–77

Genomic characterization of Molluscum contagiosum virus type 1: identification of the repetitive DNA sequences in the viral genome. Bugert J, et al. **Virus Genes** 1989 Nov; 3(2):159–73

Distribution of mouse mammary tumor virus-related sequences does not correlate with the taxonomic position of their hosts. Golovkina TV, et al. **Virus Genes** 1990 Jun; 4(1):85–92

Molecular analysis of structural protein genes of the Yamagata-1 strain of defective subacute sclerosing panencephalitis virus. I. Nucleotide sequence of the nucleoprotein gene. Komase K, et al. **Virus Genes** 1990 Jul;4(2):137–49

Molecular analysis of structural protein genes of the Yamagata-1 strain of defective subacute sclerosing panencephalitis virus. IV. Nucleotide sequence of the fusion gene. Komase K, et al. **Virus Genes** 1990 Jul; 4(2):173–81

Physical mapping of two temperature-sensitive adenovirus mutants affected in the DNA polymerase and DNA binding protein. Roovers DJ, et al. **Virus Genes** 1990 Jun;4(1):53–61

In-vitro translation of cucumoviral satellites. III. Translational efficiencies of cucumber mosaic virus-associated RNA 5 sequence variants can be related to the predicted secondary structures of their first 55 nucleotides. Steen MT, et al. **Virus Genes** 1990 Jun; 4(1):41–52

Molecular analysis of structural protein genes of the Yamagata-1 strain of defective subacute sclerosing panencephalitis virus. II. Nucleotide sequence of a cDNA corresponding to the P plus M dicistronic mRNA. Yoshikawa Y, et al. **Virus Genes** 1990 Jul;4(2):151–61

Association of Epstein-Barr virus with an angioimmunoblastic lymphadenopathy-like lymphoproliferative syndrome. White AC Jr, et al. **Yale J Biol Med** 1989 May-Jun;62(3):263–9

DNA restriction analysis of equine adenovirus serotype I. Higashi T, et al. **Zentralbl Veterinarmed [B]** 1989 Aug; 36(6):473–6

[Viral etiology of cancer of the uterine cervix. II. Detection of human cytomegalovirus DNA sequence and antigen in cervical lesions] Meng XJ.
Chung Hua Chung Liu Tsa Chih 1989 Jul;11(4):263–5 (Eng. Abstr.) **(Chi)**

[Detection of HBV DNA in hepatocellular carcinoma by in situ hybridization using a biotin-labelled probe] Chen ML. **Chung-hua Ping Li Hsueh Tsa Chih** 1989 Sep; 18(3):178–81 (Eng. Abstr.) **(Chi)**

[In situ hybridization study of HBV DNA in chronic active hepatitis] Zhao Y, et al.
Chung-hua Ping Li Hsueh Tsa Chih 1990 Mar;19(1):42–5 (Eng. Abstr.) **(Chi)**

[Studies on the physical state of human papillomavirus 16 DNA in biopsies of patients with cervical carcinoma] Han RC. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Jun;11(3):234–6 (Eng. Abstr.) **(Chi)**

[The polymerase chain reaction and infection by human immunodeficiency virus (HIV)] Lefrère JJ, et al.
Rev Fr Transfus Hemobiol 1989 Dec;32(6):431–49 (78 ref.) **(Fre)**

[Condylomata acuminata gigantea with detection of HPV-6-DNA. A case report with adjuvant systemic IFN-gamma therapy] Fierlbeck G, et al. **Hautarzt** 1989 Dec;40(12):767–70 (Eng. Abstr.) **(Ger)**

[HIV detection with polymerase chain reaction (news)] Koopmann I. **Med Monatsschr Pharm** 1990 Jun;13(6):194–5 **(Ger)**

[Chronic hepatitis B: diagnostic value of hepatitis-B-virus DNA analysis in serum and liver tissue] Meier P, et al. **Schweiz Med Wochenschr** 1990 Mar 3;120(9):310–3 (Eng. Abstr.) **(Ger)**

[The relation of B- and non-A, non-B hepatitis virus—hepatitis B virus (HBV) DNA hybridization studies of the sera in non-A, non-B hepatitis] Wiese M, et al.
Z Gesamte Inn Med 1989 Dec 15;44(24):733–5 (Eng. Abstr.) **(Ger)**

[Virus-induced papilloma of the conjunctiva. Detection of HPV 6a DNA] Fierlbeck G, et al. **Z Hautkr** 1990 May; 65(5):497–9 (Eng. Abstr.) **(Ger)**

[Study of a comparative statistical analytical model for nucleotide sequences in the genome of viruses of the Papovaviridae family] Leopardi R.
Boll Soc Ital Biol Sper 1989 Aug;65(8):791–8 (Eng. Abstr.) **(Ita)**

[HBV DNA in mononuclear cells of peripheral blood in acute hepatitis B: a comparative analysis of Southern blot and polymerase chain reaction (PCR)] Scaglioni PP, et al.
Medicina (Firenze) 1990 Jan-Mar;10(1):32–4 (Eng. Abstr.) **(Ita)**

[Epidemiologic analysis of DNA's of herpes simplex virus, type 1 and type 2 isolates obtained from family members and from different lesions of individuals] Ozawa S, et al.
Kansenshogaku Zasshi 1990 Jun;64(6):674–80 (Eng. Abstr.) **(Jpn)**

[DNA diagnosis of viral infections] Takahashi T.
Nippon Rinsho 1990 Feb;48 Suppl:1086–97 **(Jpn)**

[Clinical significance of hepatitis B virus marker analysis] Yamanaka T, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:291–7 **(Jpn)**

[Amplified DNA detection of HPV types 16 and 18 E7 gene in uterine cervical neoplasia by polymerase chain reaction] Nagai N, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jun;42(6):635–6 **(Jpn)**

[Diagnosis and follow-up study of human papillomavirus infection in benign epithelium and mild dysplasia of the uterine cervix] Suzuki M, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1990 Jun;42(6):586–92 (Eng. Abstr.) **(Jpn)**

[Human papilloma virus (HPV) antigens and DNA in dysplasia and carcinoma of the uterine cervix] Yamagata S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep; 41(9):1334–40 (Eng. Abstr.) **(Jpn)**

[Detection of HPV-DNA in the various uterocervical lesions by in situ hybridization] Ishi K, et al. **Rinsho Byori** 1989 Nov;37(11):1284–8 (Eng. Abstr.) **(Jpn)**

[Malignant lymphoma which contained EBV DNA and lacked EBNA2 antibody] Shimakage M, et al.
Rinsho Ketsueki 1989 Jul;30(7):1091–2 (Eng. Abstr.) **(Jpn)**

[An analysis of the DNA synthesized in adenovirus-infected cells under exposure to nucleoside analogs] Nosach LN, et al. **Mikrobiol Zh** 1989 Nov-Dec;51(6):73–5 (Eng. Abstr.) **(Rus)**

[Analysis of herpes simplex virus DNA using restriction endonucleases] Lepšanović Z, et al. **Vojnosanit Pregl** 1989 May-Jun;46(3):172–4 (Eng. Abstr.) **(Scr)**

[Diagnosis of acute hepatitis caused by herpes simplex virus using in situ hybridization] López-Talavera JC, et al.
Med Clin (Barc) 1990 Mar 10;94(9):342–3 (Eng. Abstr.) **(Spa)**

[Determination of HBV DNA in the serum and saliva of subjects with acute hepatitis caused by HBV] Vilar JH, et al. **Rev Esp Enferm Apar Dig** 1989 Nov;76(5):456–60 (Eng. Abstr.) **(Spa)**

BIOSYNTHESIS

Characteristics of MNNG induced repair synthesis and DNA synthesis induced by human cytomegalovirus. Anuszewska E, et al. **Acta Biochim Pol** 1989;36(2):105–14

Infection of tomato by the tomato yellow leaf curl virus: susceptibility to infection, symptom development, and accumulation of viral DNA. Ber R, et al. **Arch Virol** 1990; 112(3–4):169–80

Inhibition of SV40 DNA replication by Rous sarcoma virus LTR enhancer. Binninger D, et al. **Arch Virol** 1989; 107(3–4):291–9

Analysis of DNA synthesis in herpes simplex virus infected cells by dual parameter flow cytometry. Lehtinen M, et al. **Arch Virol** 1989;107(3–4):215–23

Effect of linoleic acid hydroperoxide on adenovirus DNA replication. Sasaguri Y, et al. **Biochem Int** 1990;20(1):81–7

Generation of clonal DNA templates for in vitro transcription without plasmid purification. Weier HU, et al. **Biotechniques** 1990 Mar;8(3):252–7

The replication functions of SV40 T antigen are regulated by phosphorylation. Prives C. **Cell** 1990 Jun 1;61(5):735–8 (24 ref.)

Activation of SV40 DNA replication in vitro by cellular protein phosphatase 2A. Virshup DM, et al. **EMBO J** 1989 Dec 1;8(12):3891–8

Cloning and expression of the major inner capsid protein of SA-11 simian rotavirus in Escherichia coli. Smith RE, et al. **Gene** 1989 Jul 15;79(2):239–48

SOS repair can be about as effective for single-stranded DNA as for double-stranded DNA and even more so. Tessman I. **J Bacteriol** 1990 Sep;172(9):5503–5

Host virus interactions in the initiation of bacteriophage lambda DNA replication. Recruitment of Escherichia coli DnaB helicase by lambda P replication protein. Mallory JB, et al. **J Biol Chem** 1990 Aug 5;265(22):13297–307

Microplate hybridization of amplified viral DNA segment. Inouye S, et al. **J Clin Microbiol** 1990 Jun;28(6):1469–72

Macromolecular synthesis in varicella-zoster virus-infected epithelial and fibroblast cells. Ilobi CP, et al.
J Gen Virol 1990 Apr;71 (Pt 4):949–52

Adenovirus subviral particles and cores can support limited DNA replication. Leith IR, et al. **J Gen Virol** 1989 Dec; 70 (Pt 12):3235–48

Effect of snuff extract on the replication and synthesis of viral DNA and proteins in cells infected with herpes simplex virus. Oh JS, et al. **J Oral Maxillofac Surg** 1990 Apr;48(4):373–9; discussion 380

Mutation of the serine 312 phosphorylation site does not alter the ability of mouse p53 to inhibit simian virus 40 DNA replication in vivo. Meek DW, et al. **J Virol** 1990 Apr; 64(4):1734–44

cis-acting sequences that control the level of viral DNA synthesis in the polyomavirus late region. Melucci-Vigo G, et al. **J Virol** 1989 Nov;63(11):4979–81

Defective replication units of hepatitis B virus. Schranz P, et al. **J Virol** 1990 Apr;64(4):1851–4

Inhibition of in vitro SV40 DNA replication by ultraviolet light. Gough G, et al. **Mutat Res** 1989 Nov;227(3):193–7

In vitro replication through nucleosomes without histone displacement. Bonne-Andrea C, et al. **Nature** 1990 Feb 22; 343(6260):719–26

Replication of tomato golden mosaic virus DNA B in transgenic plants expressing open reading frames (ORFs) of DNA A: requirement of ORF AL2 for production of single-stranded DNA. Hayes RJ, et al.
Nucleic Acids Res 1989 Dec 25;17(24):10213–22

Structural features of the priming signal recognized by primase: mutational analysis of the phage G4 origin of complementary DNA strand synthesis. Hiasa H, et al.
Nucleic Acids Res 1990 Aug 25;18(16):4825–31

Mechanism of inhibition of adenovirus DNA replication by the acyclic nucleoside triphosphate analogue (S)-HPMPApp: influence of the adenovirus DNA binding protein. Mul YM, et al. **Nucleic Acids Res** 1989 Nov 25; 17(22):8917–29

Synthesis of DNA containing the simian virus 40 origin of replication by the combined action of DNA polymerases alpha and delta. Lee SH, et al.
Proc Natl Acad Sci U S A 1989 Oct;86(19):7361–5

Extracts of hamster cells abortively infected with human adenovirus type 12 are competent to support initiation of viral DNA replication. Chowrira BM, et al. **Virology** 1990 May;176(1):289–91

[Synthesis and cloning of lengthy cDNA segments of 3'-poly(A)-RNA virus] Xu NZ, et al.
I Chuan Hsueh Pao 1988;15(5):382–8 (Eng. Abstr.) **(Chi)**

[The anchoring of newly synthesized adenovirus DNA to the nuclear matrix] Chen F, et al.
Shih Yen Sheng Wu Hsueh Pao 1990 Jun;23(2):227–32 (Eng. Abstr.) **(Chi)**

BLOOD

Enzyme immunoassay for detection of hybrids between PCR-amplified HIV-1 DNA and a RNA probe: PCR-EIA. Coutlée F, et al.
AIDS Res Hum Retroviruses 1990 Jun;6(6):775–84

Serum hepatitis B virus DNA detects cryptic hepatitis B virus infections in multitransfused hemophilic patients. Rumi MG, et al. **Blood** 1990 Apr 15;75(8):1654–8

Chronic active hepatitis with hepatitis B virus DNA and antibody against e antigen in the serum. Disturbed synthesis and secretion of e antigen from hepatocytes due to a point mutation in the precore region. Akahane Y, et al.
Gastroenterology 1990 Oct;99(4):1113–9

Relevance of hepatitis B DNA detection in patient's serum. Hofmann H, et al. **Int J Med Microbiol** 1990 Apr; 272(4):485–97

Direct method for detecting small quantities of hepatitis B virus DNA in serum and plasma using the polymerase chain reaction. Zeldis JB, et al. **J Clin Invest** 1989 Nov; 84(5):1503–8

Detection of human parvovirus B19 DNA by using the polymerase chain reaction. Koch WC, et al.
J Clin Microbiol 1990 Jan;28(1):65–9

Detection by polymerase chain reaction amplification of human herpesvirus 6 DNA in peripheral blood of patients with exanthem subitum. Kondo K, et al.
J Clin Microbiol 1990 May;28(5):970–4

Evaluation of the commercially available HepProbe kit for detection of hepatitis B virus DNA in serum. Valentine-Thon E, et al. **J Clin Microbiol** 1990 Jan; 28(1):39–42

Detection of hepatitis B virus DNA in serum using synthetic non-radioactive oligonucleotides. Manzin A, et al.
J Clin Pathol 1989 Nov;42(11):1206–10

Presence of HBV-DNA in peripheral blood mononuclear cells from anti-HIV symptomless carriers. Bartolomé FJ, et al. **J Hepatol** 1990 Mar;10(2):186–90

Detection of supercoiled hepatitis B virus DNA and related forms by means of molecular hybridization to an oligonucleotide probe. Lin HJ, et al. **J Med Virol** 1989 Dec;29(4):284–8

The absence of hepatitis B virus DNA in hepatitis B e antigen positive sera from chronic hepatitis B surface antigen carriers in China. Scott JS, et al. **J Med Virol** 1990 Feb; 30(2):103–6

Detection of hepatitis B viral DNA by polymerase chain reaction in patients with hepatitis B surface antigen. Shih LN, et al. **J Med Virol** 1990 Mar;30(3):159–62

Quantitative and qualitative differences in serum HBV DNA between HBeAg positive carriers and those positive for anti-HBe. Okamoto H, et al. **Jpn J Exp Med** 1989 Dec; 59(6):259–62

Detection of HBV DNA in HBsAg-positive sera after amplification using the polymerase chain reaction. Theilmann L, et al. **Liver** 1989 Dec;9(6):322–8

Development of a gene probe assay suitable for use in routine

diagnosis: a pilot study using a DNA probe for parvovirus B19. Shattock RJ. **Med Lab Sci** 1990 Apr;47(2):97–102

Serum HBV-DNA in anti-HBe positive patients detected by filter and liquid phase hybridization assays. Pontisso P, et al. **Mol Cell Probes** 1989 Sep;3(3):245–9

Comparison of a non-radioactive hybridization assay for detection of hepatitis B virus DNA with the radioactive method. Quibriac M, et al. **Mol Cell Probes** 1989 Sep; 3(3):209–12

Hepatitis B surface antigen, e antigen and HBV DNA in healthy antenatal patients attending Goroka Hospital and their relationship to tattooing practices. Spooner V, et al. **P N G Med J** 1990 Mar;33(1):11–5

Comparison of serum hepatitis B virus replication markers in patients with chronic hepatitis B: studies on HBeAg/anti-HBe system, viral DNA polymerase and HBV-DNA. Pinho JR, et al.
Rev Inst Med Trop Sao Paulo 1989 Sep–Oct;31(5):328–35

Detection of hepatitis B virus DNA in serum by spot hybridization technique: sensitivity and specificity of radiolabeled and biotin-labeled probes. Santantonio T, et al. **Ric Clin Lab** 1990 Jan–Mar;20(1):29–35

Persistence of varicella-zoster virus DNA in blood mononuclear cells of patients with varicella or zoster. Gilden DH, et al. **Virus Genes** 1989 Aug;2(4):299–305

[Epidemiologic significance of persistent observation of serum HBV-DNA in asymptomatic HBsAg carriers] Zeng JP. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec; 10(6):328–30 (Eng. Abstr.) **(Chi)**

[The demonstration of hepatitis B virus DNA with the polymerase chain reaction] Seelig R, et al.
Dtsch Med Wochenschr 1990 Aug 31;115(35):1307–12 (Eng. Abstr.) **(Ger)**

[The presence of nucleotide sequences of the hepatitis B virus in the serum of HBsAg-negative blood donors in Sardinia] Lai ME, et al. **Minerva Med** 1990 Apr;81(4):283–6 (Eng. Abstr.) **(Ita)**

CEREBROSPINAL FLUID

Demonstration of herpes simplex virus DNA in CSF cells by in situ hybridization for early diagnosis of herpes encephalitis. Bamborschke S, et al. **J Neurol** 1990 Apr; 237(2):73–6

Rapid detection of herpes-simplex-virus DNA in cerebrospinal fluid of patients with herpes simplex encephalitis. Rowley AH, et al. **Lancet** 1990 Feb 24; 335(8687):440–1

CLASSIFICATION

Detection and typing of papillomavirus DNA in formaldehyde-fixed paraffin-embedded tissue. Brandsma JL, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jul; 116(7):844–8

DIAGNOSTIC USE

Affinity-based collection of amplified viral DNA: application to the detection of human immunodeficiency virus type 1, human cytomegalovirus and human papillomavirus type 16. Harju L, et al. **Mol Cell Probes** 1990 Jun;4(3):223–35

DRUG EFFECTS

Exposure to camptothecin breaks leading and lagging strand simian virus 40 DNA replication forks. Shin CG, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):135–40

DNA strand breaks photosensitized by benoxaprofen and other non steroidal antiinflammatory agents. Artuso T, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):407–13

Sequence-selective topoisomerase II inhibition by anthracycline derivatives in SV40 DNA: relationship with DNA binding affinity and cytotoxicity. Capranico G, et al. **Biochemistry** 1990 Jan 16;29(2):562–9

Characterization of a DNA damage-recognition protein from mammalian cells that binds specifically to intrastrand d(GpG) and d(ApG) DNA adducts of the anticancer drug cisplatin. Donahue BA, et al. **Biochemistry** 1990 Jun 19; 29(24):5872–80

O6-methylguanine and A.C and G.T mismatches cause asymmetric structural defects in DNA that are affected by DNA sequence. Voigt JM, et al. **Biochemistry** 1990 May 29;29(21):5012–8

Mechanism of exonuclease action of BAL 31 nuclease. Zhou XG, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):83–91

Role of the semi-quinone free radical of the anti-tumour agent etoposide (VP-16-213) in the inactivation of single- and double-stranded phi X174 DNA. Mans DR, et al. **Br J Cancer** 1990 Jul;62(1):54–60

Structural polymorphism of homopurine--homopyrimidine sequences: the secondary DNA structure adopted by a d(GA.CT)22 sequence in the presence of zinc ions. Bernués J, et al. **EMBO J** 1989 Jul;8(7):2087–94

Effects of oxygen radical scavengers on the inactivation of SS phi X174 DNA by the semi-quinone free radical of the antitumor agent etoposide. Van Maanen JM, et al.
Free Radic Res Commun 1990;9(2):69–86

Dark and photoreactivity of
4'-aminomethyl-4,5',8-trimethylpsoralen with T7 phage. Tóth K, et al. **J Photochem Photobiol B** 1990 Apr 15; 5(2):167–78

An inhibitory effect of RGD peptide on protein-priming reaction of bacteriophages phi 29 and M2. Kobayashi H, et al. **Mol Gen Genet** 1989 Dec;220(1):8–11

Effect of in vitro cleavage of apurinic/apyrimidinic sites on bleomycin-induced mutagenesis of repackaged lambda phage. Steighner RJ, et al. **Mutat Res** 1990 Feb; 240(2):93–100

Antiviral xanthate causes conformational changes in simian virus 40 DNA and chromatin. Waldeck W. **Oncology** 1990; 47(2):191–8

Inhibition of the replication of hepatitis B virus by the carbocyclic analogue of 2'-deoxyguanosine. Price PM, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8541–4

[Experimental study on the anti-hepatitis B virus effect of the ordinary anti-hepatitis Chinese medicinal herbs] Yang JY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):494–5 **(Chi)**

[Modification of DNA with dihydrazide of succinic acid for preparation of hybridization probes] Turchinskiĭ MF, et al. **Bioorg Khim** 1989 Oct;15(10):1341–5 (Eng. Abstr.) **(Rus)**

GENETICS

Non-radioactive hybridization probes prepared using M13 phage vector and the universal sequencing primer. Ikeda S, et al. **Acta Med Okayama** 1989 Aug;43(4):197–202

Molecular cloning and physical mapping of the DNA of human adenovirus type 35. Kang WG, et al.
Acta Microbiol Hung 1989;36(1):67–75

Comparison of smear specimens with biopsy specimens in a nucleic acid hybridization test for human papilloma virus (HPV) infection. Auvinen E, et al.
Acta Obstet Gynecol Scand 1989;68(7):627–31

Concept of the existence of human papillomavirus (HPV) DNA in histologically normal squamous epithelium of the genital tract should be re-evaluated. Syrjänen K, et al.
Acta Obstet Gynecol Scand 1989;68(7):613–7

Molecular cloning of DNA from a bovine herpesvirus 1 strain isolated in Hungary. Bárány G, et al. **Acta Vet Hung** 1989; 37(4):353–60

The conserved open reading frame overlapping the thymidine kinase gene of different herpesviruses exists also in bovine herpesvirus 1. Harrach B, et al.
Acta Vet Hung 1989;37(4):361–4

Electrotransfection of plant protoplasts with viral nucleic acids. Hibi T. **Adv Virus Res** 1989;37:329–42 (41 ref.)

HIV genome variability in vivo. Wain-Hobson S. **AIDS** 1989; 3 Suppl 1:S13–8 (33 ref.)

Transformation of rabbit vascular smooth muscle cells by transfection with the early region of SV40 DNA. Nachtigal M, et al. **Am J Pathol** 1990 Feb;136(2):297–306

Multicentric independent development of hepatocellular carcinoma revealed by analysis of hepatitis B virus integration pattern. Sakamoto M, et al.
Am J Surg Pathol 1989 Dec;13(12):1064–7

Diagnostic complementary DNA probes for genome segments 2 and 3 of epizootic hemorrhagic disease virus serotype 1. Wilson WC, et al. **Am J Vet Res** 1990 Jun; 51(6):855–60

Baculovirus diversity and molecular biology. Blissard GW, et al. **Annu Rev Entomol** 1990;35:127–55 (132 ref.)

The genomes of the human herpesviruses: contents, relationships, and evolution. McGeoch DJ.
Annu Rev Microbiol 1989;43:235–65 (157 ref.)

The cis-acting DNA sequences required in vivo for bacteriophage Mu helper-mediated transposition and packaging. Harel J, et al. **Arch Microbiol** 1990;154(1):67–72

The right end of MudI(Ap,lac). Zieg J, et al.
Arch Microbiol 1989;153(1):1–6

Characterization of the DNA of granulosis viruses isolated from two closely related moths, Chilo infuscatellus and C. saccariphagus indicus. Easwaramoorthy S, et al.
Arch Virol 1990;110(1-2):113–9

Physical mapping and field inversion gel electrophoresis of Amsacta moorei entomopoxvirus DNA. Hall RL, et al.
Arch Virol 1990;110(1-2):77–90

Gene mapping of infectious bovine rhinotracheitis viral DNA genome. Simard C, et al. **Arch Virol** 1990;110(1-2):63–75

Transfection of chicken embryo fibroblasts with Marek's disease virus DNA. Morgan RW, et al. **Avian Dis** 1990 Apr-Jun;34(2):345–51

Minute amounts of RNA are synthesized from several regions of the bacteriophage Mu DNA during the lysogenic state. Barron C, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):512–8

Demonstration of a new mouse mammary tumor virus locus in the genome of the mammary tumor prone strain SHN mouse. Koizumi A, et al.
Biochem Biophys Res Commun 1990 Jan 15;166(1):336–41

Nuclear factor I represses the reverse-oriented transcription from the adenovirus type 5 DNA terminus. Matsumoto K, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):1212–9

Transcription of HIV1 is inhibited by DNA methylation. Schulze-Forster K, et al.
Biochem Biophys Res Commun 1990 Apr 16;168(1):141–7

Secondary structural features of the bacteriophage Mu-encoded A and B transposition proteins. Chaconas G, et al. **Biochem J** 1989 Oct 1;263(1):19–23

Cisplatin resistance and mechanism in a viral test system: SV40 isolates that resist inhibition by the antitumor drug have lost regulatory DNA. Buchanan RL, et al.
Biochemistry 1990 Apr 10;29(14):3436–42

Effects of the bacteriophage T4 gene 41 and gene 32 proteins on RNA primer synthesis: coupling of leading- and lagging-strand DNA synthesis at a replication fork. Cha TA, et al. **Biochemistry** 1990 Feb 20;29(7):1791–8

A sensitive genetic assay for the detection of cytosine deamination: determination of rate constants and the activation energy. Frederico LA, et al. **Biochemistry** 1990 Mar 13;29(10):2532–7

Template-primer activity of
5-(hydroxymethyl)uracil-containing DNA for prokaryotic and eukaryotic DNA and RNA polymerases. Herrala AM, et al. **Biochemistry** 1989 Oct 17;28(21):8274–7

Transfer of immortality by transfection of genomic DNA from SV40 established cell lines into rat embryo fibroblasts. Jacquemin-Sablon H, et al. **Biol Cell** 1990;68(3):227–30

Microinjecting DNA into mouse ova to study DNA replication and gene expression and to produce transgenic animals. DePamphilis ML, et al. **Biotechniques** 1988 Jul-Aug;6(7):662–80 (60 ref.)

Direct sequencing of lambda-gt11 recombinant clones. Kim BS, et al. **Biotechniques** 1990 Feb;8(2):156–60

Direct DNA sequencing of cDNA inserts from plaques using the linear polymerase chain reaction. Smith DP, et al.
Biotechniques 1990 Jul;9(1):48, 50, 52; passim

Sequencing of cloned DNA using bacteriophage lambda gt11 templates. Steffens DL, et al. **Biotechniques** 1989 Jul-Aug; 7(7):674–80

Human immunodeficiency virus DNA amplification and serology in blood donors. Perrin LH, et al. **Blood** 1990 Aug 1;76(3):641–5

Hepatitis C virus: the major causative agent of viral non-A, non-B hepatitis. Choo QL, et al. **Br Med Bull** 1990 Apr; 46(2):423–41 (68 ref.)

Human papillomavirus type 16 DNA is integrated into chromosome region 12q14-q15 in a cell line derived from a vulvar intraepithelial neoplasia. Sastre-Garau X, et al.
Cancer Genet Cytogenet 1990 Feb;44(2):243–51

Integration of human papillomavirus 16 DNA and genomic rearrangements in immortalized human keratinocyte lines. Popescu NC, et al. **Cancer Res** 1990 Feb 15;50(4):1316–23

The IN protein of Moloney murine leukemia virus processes the viral DNA ends and accomplishes their integration in vitro. Craigie R, et al. **Cell** 1990 Aug 24;62(4):829–37

Nucleosome positioning modulates accessibility of regulatory proteins to the mouse mammary tumor virus promoter. Piña B, et al. **Cell** 1990 Mar 9;60(5):719–31

In vitro resolution of covalently joined AAV chromosome ends. Snyder RO, et al. **Cell** 1990 Jan 12;60(1):105–13

Integration of retroviral DNA. Brown PO.
Curr Top Microbiol Immunol 1990;157:19–48 (108 ref.)

Translational suppression in gene expression in retroviruses and retrotransposons. Jacks T.
Curr Top Microbiol Immunol 1990;157:93–124 (107 ref.)

Detection of human papillomavirus in reprocessed routine Papanicolaou smears by DNA hybridization. Rakoczy P, et al. **Diagn Cytopathol** 1990;6(3):210–4

Infectious measles virus from cloned cDNA. Ballart I, et al. **EMBO J** 1990 Feb;9(2):379–84

The ocs-element is a component of the promoters of several T-DNA and plant viral genes. Bouchez D, et al.
EMBO J 1989 Dec 20;8(13):4197–204

Amino-terminal domain of NF1 binds to DNA as a dimer and activates adenovirus DNA replication. Gounari F, et al. **EMBO J** 1990 Feb;9(2):559–66

Infectious circular DNA of human adenovirus type 5: regeneration of viral DNA termini from molecules lacking terminal sequences. Graham FL, et al. **EMBO J** 1989 Jul; 8(7):2077–85

Malignant transformation of immortalized transgenic hepatocytes after transfection with hepatitis B virus DNA. Höhne M, et al. **EMBO J** 1990 Apr;9(4):1137–45

Reverse transcriptases and genomic variability: the accuracy of DNA replication is enzyme specific and sequence dependent. Ricchetti M, et al. **EMBO J** 1990 May; 9(5):1583–93

P22 repressor mutants deficient in co-operative binding and DNA loop formation. Valenzuela D, et al. **EMBO J** 1989 Dec 20;8(13):4345–50

A mitigator sequence in the downstream region of the major late promoter of adenovirus type 12 DNA. Zock C, et al. **EMBO J** 1990 May;9(5):1615–23

Similarities in nucleotide sequence between serum and faecal human parvovirus DNA. Turton J, et al.
Epidemiol Infect 1990 Aug;105(1):197–201

Determination of the DNA conformation of the simian virus 40 (SV40) enhancer in SV40 minichromosomes. Martínez-Balbás A, et al. **Eur J Biochem** 1990 Mar 10; 188(2):269–73

Membrane morphogenesis from cloned fragments of bacteriophage PM2 DNA that contain the sp6.6 gene. Armour GA, et al. **FASEB J** 1990 Mar;4(5):1488–93

M13 Bioprints: non-isotopic detection of individual-specific human DNA fingerprints with biotinylated M13 bacteriophage. Medeiros AC, et al. **Forensic Sci Int** 1989 Dec;43(3):275–80

A lambda gt11-cDNA clone specific for chronic hepatitis C generated from pooled serum presumably infected by hepatitis C virus. Arima T, et al. **Gastroenterol Jpn** 1989 Oct;24(5):545–8

Cloning of a cDNA associated with acute and chronic hepatitis C infection generated from patients serum RNA. Arima T, et al. **Gastroenterol Jpn** 1989 Oct;24(5):540–4

Presence of a translational stop codon in the precore region

of HBVDNA in the HBeAg positive stage of chronic hepatitis B. Nonaka T, et al. **Gastroenterol Jpn** 1990 Apr; 25(2):276

Cell surface expression of hepatitis B surface and core antigens in transfected rat fibroblast cell lines. Gholson CF, et al. **Gastroenterology** 1990 Apr;98(4):968–75

Characterization of a highly transcribed DNA region of herpesvirus of turkeys. Bandyopadhyay PK. **Gene** 1989 Jul 15;79(2):361–7

Construction and properties of an Epstein–Barr–virus–derived cDNA expression vector for human cells. Belt PB, et al. **Gene** 1989 Dec 14;84(2):407–17

Cloning and sequencing of RNA–1 cDNA from cucumber mosaic virus strain O [published erratum appears in Gene 1990 May 14;89(2):296] Hayakawa T, et al. **Gene** 1989 Dec 28;85(2):533–40

Distinct functional contributions of three potential secondary structures in the phage G4 origin of complementary DNA strand synthesis. Hiasa H, et al. **Gene** 1989 Dec 7; 84(1):17–22

Mutational analysis of the primer RNA template region in the replication origin (oric) of bacteriophage G4: priming signal recognition by Escherichia coli primase. Hiasa H, et al. **Gene** 1989 Dec 7;84(1):9–16

Homologies between herpesvirus of turkey and Marek's disease virus type–1 DNAs within two co–linearly arranged open reading frames, one encoding glycoprotein A. Kato A, et al. **Gene** 1989 Dec 14;84(2):399–405

Direct sequencing of bacteriophage T4 DNA with a thermostable DNA polymerase. Kricker MC, et al. **Gene** 1989 Dec 21;85(1):199–204

Optimization of the in vitro packaging efficiency of bacteriophage T7 DNA: effects of neutral polymers. Son M, et al. **Gene** 1989 Oct 30;82(2):321–5

Direct cloning of cDNA inserts from lambda gt11 phage DNA into a plasmid vector by a novel and simple method. Chiu IM, et al. **Genet Anal** 1990 Feb;7(1):18–23

The rIIA gene of bacteriophage T4. I. Its DNA sequence and discovery of a new open reading frame between genes 60 and rIIA. Daegelen P, et al. **Genetics** 1990 Jun; 125(2):237–48

Molecular characterization of a new variant of hepatitis B virus in a persistently infected homosexual man. Bhat RA, et al. **Hepatology** 1990 Feb;11(2):271–6

Immunocytochemical and electron microscopic study of hepatitis B virus antigen and complete particle production in hepatitis B virus DNA transfected HepG2 cells. Roingeard P, et al. **Hepatology** 1990 Feb;11(2):277–85

Extrahepatic hepatitis B virus DNA sequences in patients with acute hepatitis B infection. Yoffe B, et al. **Hepatology** 1990 Aug;12(2):187–92

Tripeptide, Arg–Gly–Asp, inhibits the transfection of protein–linked DNA of bacteriophage M2. Kobayashi H, et al. **Idengaku Zasshi** 1988 Dec;63(6):537–41

Establishment of immortalized primate epithelial cells with sub–genomic EBV DNA. Karran L, et al. **Int J Cancer** 1990 Apr 15;45(4):763–72

Persistence of human cytomegalovirus DNA sequences without cell–virus homology in human placental explants in culture. Amirhessami–Aghili N, et al. **Int J Fertil** 1989 Nov–Dec;34(6):411–9

Physical mapping and molecular cloning of mung bean yellow mosaic virus DNA. Morinaga T, et al. **Intervirology** 1990;31(1):50–6

Immortalization of rabbit vascular smooth muscle cells after transfection with a fragment of the BglII N region of herpes simplex virus type 2 DNA. Nachtigal M, et al. **Intervirology** 1990;31(2–4):166–74

Host range determinant in the late region of SV40 and RF virus affecting growth in human cells. O'Neill FJ, et al. **Intervirology** 1990;31(2–4):175–87

The T open reading frame of human immunodeficiency virus type 1. Cohen EA, et al. **J Acquir Immune Defic Syndr** 1990;3(6):601–8

Determination of the packaging capacity of bacteriophage VWB. Anné J, et al. **J Bacteriol** 1990 Feb;172(2):1129–32

Inhibition of transcription of cytosine–containing DNA in vitro by the alc gene product of bacteriophage T4. Drivdahl RH, et al. **J Bacteriol** 1990 May;172(5):2716–27

Transcription of a bacteriophage lambda DNA site blocks growth of Escherichia coli. Guzman P, et al. **J Bacteriol** 1990 Feb;172(2):1030–4

Methyl–directed repair of frameshift heteroduplexes in cell extracts from Escherichia coli. Learn BA, et al. **J Bacteriol** 1989 Dec;171(12):6473–81

Murine DNA polymerase.alpha–primase initiates RNA–primed DNA synthesis preferentially upstream of a 3'–CC(C/A)–5' motif. Davey SK, et al. **J Biol Chem** 1990 Mar 5;265(7):3611–4

Mutagenesis by single site–specific arylamine–DNA adducts. Induction of mutations at multiple sites. Gupta PK, et al. **J Biol Chem** 1989 Nov 25;264(33):20120–30

The role of human single–stranded DNA binding protein and its individual subunits in simian virus 40 DNA replication. Kenny MK, et al. **J Biol Chem** 1990 May 5; 265(13):7693–700

Cloning, sequence analysis, and expression of the bacteriophage T4 cd gene. Maley GF, et al. **J Biol Chem** 1990 Jan 5;265(1):47–51

Resolution of Holliday junction analogs by T4 endonuclease VII can be directed by substrate structure. Mueller JE, et al. **J Biol Chem** 1990 Aug 15;265(23):13918–24

Inhibition of the restriction endonuclease BanII using modified DNA substrates. Determination of phosphate residues critical for the formation of an active enzyme–DNA complex. Olsen DB, et al. **J Biol Chem** 1990 Aug 25;265(24):14389–94

Systematic studies on parameters influencing the performance of the polymerase chain reaction. Linz U, et al. **J Clin Chem Clin Biochem** 1990 Jan;28(1):5–13

Synthesis of infectious RNA from full–length cloned cDNA to RNA of cymbidium ringspot tombusvirus. Burgyan J, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1857–60

The nucleotide sequence of coxsackievirus A9; implications for receptor binding and enterovirus classification. Chang KH, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3269–80

Molecular cloning and sequencing of an Australian isolate of proviral bovine leukaemia virus DNA: comparison with other isolates. Coulston J, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1737–46

Cloning and molecular characterization of the murine herpesvirus 68 genome. Efstathiou S, et al. **J Gen Virol** 1990 Jun;71 (Pt 6):1355–64

Murine herpesvirus 68 is genetically related to the gammaherpesviruses Epstein–Barr virus and herpesvirus saimiri. Efstathiou S, et al. **J Gen Virol** 1990 Jun;71 (Pt 6):1365–72

Comparative DNA sequence analysis of the host shutoff genes of different strains of herpes simplex virus: type 2 strain HG52 encodes a truncated UL41 product. Everett RD, et al. **J Gen Virol** 1990 Jun;71 (Pt 6):1387–90

Comparative study of virion structure, protein composition and genomic DNA of three ascovirus isolates. Federici BA, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1661–8

Differentiation of vaccine and wild mumps viruses using the polymerase chain reaction and dideoxynucleotide sequencing. Forsey T, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):987–90

Functional analysis of a 603 nucleotide open reading frame upstream of the polyhedrin gene of Autographa californica nuclear polyhedrosis virus. Gearing KL, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):251–62

Expression from cloned DNA of biologically active glycoprotein C of herpes simplex virus type 1 in mammalian cells. Ghosh–Choudhury N, et al. **J Gen Virol** 1990 Mar; 71 (Pt 3):689–99

Analysis of the nucleotide sequence of DNA from the region of the thymidine kinase gene of infectious laryngotracheitis virus; potential evolutionary relationships between the herpesvirus subfamilies. Griffin AM, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):841–50

Sequence of the large double–stranded RNA segment of the N1 strain of infectious pancreatic necrosis virus: a comparison with other Birnaviridae. Håvarstein LS, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):299–308

Human papillomavirus type 16 DNA expresses a replication modulation factor in cos–1 cells. Hecht EM, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1823–8

Two early vaccinia virus genes encode polypeptides related to protein kinases. Howard ST, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3187–201

Production of infectious swine vesicular disease virus from cloned cDNA in mammalian cells. Inoue T, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1835–8

Nucleotide sequence analysis of genome segment A of infectious bursal disease virus. Kibenge FS, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):569–77

Nucleotide sequence of segment S9 of the genome of rice gall dwarf virus. Koganezawa H, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1861–3

The monomer covalently closed linear replicative form DNA is an intermediate of Aleutian disease parvovirus DNA replication. Löchelt M, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):541–9

Molecular cloning and physical mapping of the genome of Bombyx mori nuclear polyhedrosis virus. Maeda S, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1851–5

Efficient transfection of insect cells with baculovirus DNA using electroporation. Mann SG, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3501–5

BK virus early RNA transcripts in stably transformed cells: enhanced levels induced by dibutyryl cyclic AMP, forskolin and 12–O–tetradecanoylphorbol–13–acetate treatment. Moens U, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1461–71

Trans–complementation of the C gene of human and the P gene of woodchuck hepadnaviruses. Okamoto H, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):959–63

A mutant of herpes simplex virus type 1 immediate early polypeptide Vmw175 binds to the cap site of its own promoter in vitro but fails to autoregulate in vivo. Paterson T, et al. **J Gen Virol** 1990 Apr;71 (Pt 4):851–61

Localization of genomic regions specific for the attenuated, mouse–adapted poliovirus type 2 strain W–2. Pevear DC, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):43–52

The nucleotide sequences of the 3'–terminal regions of papaya ringspot virus strains W and P. Quemada H, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):203–10

Porcine parvovirus: DNA sequence and genome organization. Ranz AI, et al. **J Gen Virol** 1989 Oct;70 (Pt 10):2541–53

The p6.5 gene region of a nuclear polyhedrosis virus of Orgyia pseudotsugata: DNA sequence and transcriptional analysis of four late genes. Russell RL, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):551–60

Differentiation of strains of tick–borne encephalitis virus by means of RNA–DNA hybridization. Shamanin VA, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1505–15

Evidence for chromosomal transmission of polydnavirus DNA. Stoltz DB. **J Gen Virol** 1990 May;71 (Pt 5):1051–6

Co–transformation by human papillomavirus types 6 and 11. Storey A, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):165–71

Analysis of the complete nucleotide sequence of Chp1, a phage which infects avian Chlamydia psittaci. Storey CC, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3381–90

Nucleotide sequence analysis of a 10.5 kbp HindIII fragment of fowlpox virus: relatedness to the central portion of the vaccinia virus HindIII D region. Tartaglia J, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1517–24

The adenovirus type 40 hexon: sequence, predicted structure and relationship to other adenovirus hexons. Toogood CI, et al. **J Gen Virol** 1989 Dec;70 (Pt 12):3203–14

Corticosteroids stimulate hepatitis B virus DNA, mRNA and protein production in a stable expression system. Tur–Kaspa R, et al. **J Hepatol** 1990 Jul;11(1):34–6

Characterization of the early steps of herpes simplex virus replication in interferon–treated human cells. Oberman F, et al. **J Interferon Res** 1989 Oct;9(5):563–71

Molecular mechanisms of nucleic acid integration. Coffin JM. **J Med Virol** 1990 May;31(1):43–9 (29 ref.)

Risk of tumor induction in vivo by residual cellular DNA: quantitative considerations. Löwer J. **J Med Virol** 1990 May;31(1):50–3 (12 ref.)

Expression of pre–S2 region of hepatitis B surface antigen in Escherichia coli. Yu MW, et al. **J Med Virol** 1990 Jan; 30(1):7–13

Sequence of bacteriophage T3 DNA from gene 2.5 through gene 9. Beck PJ, et al. **J Mol Biol** 1989 Dec 20; 210(4):687–701

In vivo assessment of the Z–DNA–forming potential of d(CA.GT)n and d(CG.GC)n sequences cloned into SV40 minichromosomes. Casasnovas JM, et al. **J Mol Biol** 1989 Aug 20;208(4):537–49

Plasmid–partition functions of the P7 prophage. Ludtke DN, et al. **J Mol Biol** 1989 Oct 5;209(3):393–406

Bend induced by the phage phi 29 transcriptional activator in the viral late promoter is required for activation. Rojo F, et al. **J Mol Biol** 1990 Feb 20;211(4):713–25

The regulation of expression of mouse mammary tumor virus DNA by steroid hormones and growth factors. Cato AC, et al. **J Steroid Biochem** 1989;34(1–6):139–43

Influenza viruses, comets and the science of evolutionary trees. Henderson IM, et al. **J Theor Biol** 1989 Oct 9; 140(3):289–303

Definition of the sequence requirements for binding of the EBNA–1 protein to its palindromic target sites in Epstein–Barr virus DNA. Ambinder RF, et al. **J Virol** 1990 May;64(5):2369–79

Molecularly cloned simian immunodeficiency virus SIVagm3 is highly divergent from other SIVagm isolates and is biologically active in vitro and in vivo. Baier M, et al. **J Virol** 1989 Dec;63(12):5119–23

A GC–box motif upstream of the B19 parvovirus unique promoter is important for in vitro transcription. Blundell MC, et al. **J Virol** 1989 Nov;63(11):4814–23

Preferred crossover sites on polyomavirus DNA. Bourgaux P, et al. **J Virol** 1990 May;64(5):2327–36

Programmed factor binding to simian virus 40 GC–box replication and transcription control sequences. Buchanan RL, et al. **J Virol** 1990 Jan;64(1):347–53

Herpes simplex virus type 1 ICP0 plays a critical role in the de novo synthesis of infectious virus following transfection of viral DNA. Cai WZ, et al. **J Virol** 1989 Nov;63(11):4579–89

Mutation of a consensus purine nucleotide binding site in the adeno–associated virus rep gene generates a dominant negative phenotype for DNA replication. Chejanovsky N, et al. **J Virol** 1990 Apr;64(4):1764–70

Cloning of minute virus of mice cDNAs and preliminary analysis of individual viral proteins expressed in murine cells. Clemens KE, et al. **J Virol** 1990 Aug;64(8):3967–73

Attenuation and cell culture adaptation of hepatitis A virus (HAV): a genetic analysis with HAV cDNA. Cohen JI, et al. **J Virol** 1989 Dec;63(12):5364–70

Structural organization of the termini of the L and S components of the genome of pseudorabies virus. DeMarchi JM, et al. **J Virol** 1990 Oct;64(10):4968–77

Expression of the int–1 and int–2 loci in endogenous mouse mammary tumor virus–induced mammary tumorigenesis in the C3Hf mouse. Etkind PR. **J Virol** 1989 Nov; 63(11):4972–5

Human papillomavirus type 29 (HPV–29), an HPV type cross–hybridizing with HPV–2 and with HPV–3–related types. Favre M, et al. **J Virol** 1989 Nov;63(11):4906

Human papillomavirus type 49, a type isolated from flat warts of renal transplant patients. Favre M, et al. **J Virol** 1989 Nov;63(11):4909

Human papillomavirus (HPV) type 50, a type associated with epidermodysplasia verruciformis (EV) and only weakly related to other EV–specific HPVs. Favre M, et al. **J Virol** 1989 Nov;63(11):4910

Human papillomavirus type 53. Gallahan D, et al. **J Virol** 1989 Nov;63(11):4911–2

Nonessential region of bacteriophage P4: DNA sequence, transcription, gene products, and functions [published erratum appears in J Virol 1990 Apr;64(4):1878] Ghisotti

D, et al. J Virol 1990 Jan;64(1):24–36
Adenovirus type 5 packaging domain is composed of a repeated element that is functionally redundant. Gräble M, et al. J Virol 1990 May;64(5):2047–56
cis-active elements from mouse chromosomal DNA suppress simian virus 40 DNA replication. Hartl M, et al. J Virol 1990 Jun;64(6):2884–94
Human papillomavirus type 6 long control region and human cellular DNA contain related sequences. Hrisomalos TF, et al. J Virol 1990 Oct;64(10):5188–91
Construction of less neurovirulent polioviruses by introducing deletions into the 5' noncoding sequence of the genome. Iizuka N, et al. J Virol 1989 Dec; 63(12):5354–63
Purification of a mouse nuclear factor that binds to both the A and B cores of the polyomavirus enhancer. Kamachi Y, et al. J Virol 1990 Oct;64(10):4808–19
Quantitative polymerase chain reaction analysis of herpes simplex virus DNA in ganglia of mice infected with replication-incompetent mutants. Katz JP, et al. J Virol 1990 Sep;64(9):4288–95
A host cell protein binds to a highly conserved sequence element (pac-2) within the cytomegalovirus a sequence. Kemble GW, et al. J Virol 1989 Nov;63(11):4715–28
Conditional poliovirus mutants made by random deletion mutagenesis of infectious cDNA. Kirkegaard K, et al. J Virol 1990 Jan;64(1):185–94
Sequences in the human cytomegalovirus 2.7-kilobase RNA promoter which mediate its regulation as an early gene. Klucher KM, et al. J Virol 1989 Dec;63(12):5334–43
Complete nucleotide sequence of infectious Coxsackievirus B3 cDNA: two initial 5' uridine residues are regained during plus-strand RNA synthesis. Klump WM, et al. J Virol 1990 Apr;64(4):1573–83
Sequence-specific binding of DNA by the Moloney murine leukemia virus integrase protein. Krogstad PA, et al. J Virol 1990 Jun;64(6):2796–801
Mutation of lysine 405 to serine in the parvovirus H-1 NS1 abolishes its functions for viral DNA replication, late promoter trans activation, and cytotoxicity. Li X, et al. J Virol 1990 Oct;64(10):4654–60
Identification, cloning, and expression of the major capsid protein gene of human herpesvirus 6. Littler E, et al. J Virol 1990 Feb;64(2):714–22
Template switching by reverse transcriptase during DNA synthesis. Luo GX, et al. J Virol 1990 Sep;64(9):4321–8
Specificities involved in the initiation of retroviral plus-strand DNA. Luo GX, et al. J Virol 1990 Feb; 64(2):592–7
Retroviral integration sites in transgenic Mov mice frequently map in the vicinity of transcribed DNA regions. Mooslehner K, et al. J Virol 1990 Jun;64(6):3056–8
Human papillomavirus type 6b DNA required for initiation but not maintenance of transformation of C127 mouse cells. Morgan D, et al. J Virol 1990 Mar;64(3):969–76
Human papillomavirus type 48. Müller M, et al. J Virol 1989 Nov;63(11):4907–8
Three domains in the simian virus 40 core origin orchestrate the binding, melting, and DNA helicase activities of T antigen. Parsons R, et al. J Virol 1990 Feb;64(2):509–18
Replication and amplification of defective interfering particle RNAs of vesicular stomatitis virus in cells expressing viral proteins from vectors containing cloned cDNAs. Pattnaik AK, et al. J Virol 1990 Jun;64(6):2948–57
Defective viral DNA in Epstein-Barr virus-associated oral hairy leukoplakia. Patton DF, et al. J Virol 1990 Jan; 64(1):397–400
Nucleotide sequence of a neurovirulent variant of the type 2 oral poliovirus vaccine. Pollard SR, et al. J Virol 1989 Nov;63(11):4949–51
Transcription of the S gene in transgenic mice is associated with hypomethylation at specific sites and with DNase I sensitivity. Pourcel C, et al. J Virol 1990 Feb;64(2):931–5
Integrated proviral human immunodeficiency virus type 1 is present in CD4+ peripheral blood lymphocytes in healthy seropositive individuals. Psallidopoulos MC, et al. J Virol 1989 Nov;63(11):4626–31
Proviral DNA integration and transcriptional patterns of equine infectious anemia virus during persistent and cytopathic infections. Rasty S, et al. J Virol 1990 Jan; 64(1):86–95
Temperature-sensitive vaccinia virus mutants identify a gene with an essential role in viral replication. Rempel RE, et al. J Virol 1990 Feb;64(2):574–83
Phylogenetic distribution of the novel avian endogenous provirus family EAV-0. Resnick RM, et al. J Virol 1990 Oct;64(10):4640–53
Preassembled capsids of type D retroviruses contain a signal sufficient for targeting specifically to the plasma membrane. Rhee SS, et al. J Virol 1990 Aug;64(8):3844–52
Accumulation of human immunodeficiency virus type 1 DNA in T cells: results of multiple infection events. Robinson HL, et al. J Virol 1990 Oct;64(10):4836–41
Infectious cDNA clones of the DA strain of Theiler's murine encephalomyelitis virus. Roos RP, et al. J Virol 1989 Dec; 63(12):5492–6
An insertion of insect cell DNA in the 81-map-unit segment of Autographa californica nuclear polyhedrosis virus DNA. Schetter C, et al. J Virol 1990 Apr;64(4):1844–50
Analysis of the Epstein-Barr virus origin of plasmid replication (oriP) reveals an area of nucleosome sparing that spans the 3' dyad. Sexton CJ, et al. J Virol 1989 Dec; 63(12):5505–8
Construction and characterization of an infectious DNA clone and of mutants of simian immunodeficiency virus isolated from the African green monkey. Shibata R, et al. J Virol 1990 Jan;64(1):307–12
Four major sequence elements of simian virus 40 large T antigen coordinate its specific and nonspecific DNA binding. Simmons DT, et al. J Virol 1990 May; 64(5):1973–83
Sequence requirements for DNA rearrangements induced by the terminal repeat of herpes simplex virus type 1 KOS DNA. Smiley JR, et al. J Virol 1990 Oct;64(10):5036–50
Point mutations in the Moloney murine leukemia virus enhancer identify a lymphoid-specific viral core motif and 1,3-phorbol myristate acetate-inducible element. Speck NA, et al. J Virol 1990 Feb;64(2):543–50
Cloning and characterization of cDNAs encoding equine infectious anemia virus tat and putative Rev proteins. Stephens RM, et al. J Virol 1990 Aug;64(8):3716–25
Integration is not necessary for expression of human immunodeficiency virus type 1 protein products. Stevenson M, et al. J Virol 1990 May;64(5):2421–5
Assembly of nascent DNA into nucleosome structures in simian virus 40 chromosomes by HeLa cell extract. Sugasawa K, et al. J Virol 1990 Oct;64(10):4820–9
At least two types of control regions can be found among naturally occurring BK virus strains. Sundsfjord A, et al. J Virol 1990 Aug;64(8):3864–71
Structural rearrangement of integrated hepatitis B virus DNA as well as cellular flanking DNA is present in chronically infected hepatic tissues. Takada S, et al. J Virol 1990 Feb; 64(2):822–8
Simian virus 40 T antigen can transcriptionally activate and mediate viral DNA replication in cells which lack the retinoblastoma susceptibility gene product. Trifillis P, et al. J Virol 1990 Mar;64(3):1345–7
Topoisomerase I sites cluster asymmetrically at the ends of the simian virus 40 core origin of replication. Tsui S, et al. J Virol 1989 Dec;63(12):5175–83
Integration of human immunodeficiency virus types 1 and 2 DNA in vitro by cytoplasmic extracts of Moloney murine leukemia virus-infected mouse NIH 3T3 cells. Vink C, et al. J Virol 1990 Oct;64(10):5219–22
Recombinogenic properties of herpes simplex virus type 1 DNA sequences resident in simian virus 40 minichromosomes. Weber PC, et al. J Virol 1990 Jan; 64(1):300–6
Enhanced infectivity of herpes simplex virus type 1 viral DNA in a cell line expressing the trans-inducing factor Vmw65. Werstuck G, et al. J Virol 1990 Mar;64(3):984–91
Sequence of the circle junction of human immunodeficiency virus type 1: implications for reverse transcription and integration. Whitcomb JM, et al. J Virol 1990 Oct; 64(10):4903–6
Characterization of the antigenic structure of herpes simplex virus type 1 glycoprotein C through DNA sequence analysis of monoclonal antibody-resistant mutants. Wu CT, et al. J Virol 1990 Feb;64(2):856–63
Infectious foot-and-mouth disease virus derived from a cloned full-length cDNA. Zibert A, et al. J Virol 1990 Jun;64(6):2467–73
Amplification of HTLV-1-related sequences among patients with neurological disorders in highly endemic Nagasaki: lack of evidence for association of HTLV-1 with multiple sclerosis. Nakayama D, et al. Jpn J Cancer Res 1990 Mar; 81(3):238–46
Rearranged Epstein-Barr virus genomes and clonal origin in nasopharyngeal carcinoma. Shimakage M, et al. Jpn J Cancer Res 1989 Jul;80(7):612–6
Distribution of varicella-zoster virus strains carrying a PstI-site-less mutation in Japan and DNA change responsible for the mutation. Hondo R, et al. Jpn J Exp Med 1989 Dec;59(6):233–7
A comparison of biotin- and 35S-based in situ hybridization methodologies for detection of human papillomavirus DNA [published erratum appears in Lab Invest 1989 Nov;61(5):538] Nuovo GJ, et al. Lab Invest 1989 Oct; 61(4):471–6
Molecular cloning of the complete genome of Theiler's virus, strain DA, and production of infectious transcripts. McAllister A, et al. Microb Pathog 1989 Nov;7(5):381–8
Transcription in vaccinia virus. Kent R. Microbiologia 1989 Sep;5(2):69–77 (78 ref.)
Detection of human papillomaviruses 16-18 in cervical cells by molecular hybridization: relationship with morphonuclear cell image analyses. d'Olne D, et al. Mod Pathol 1989 Nov;2(6):658–65
Detection of Epstein-Barr virus genomes by in situ DNA hybridization with a terminally biotin-labeled synthetic oligonucleotide probe from the EBV Not I and Pst I tandem repeat regions. Montone KT, et al. Mod Pathol 1990 Jan;3(1):89–96
DNA replication of herpesviruses during the lytic phase of their life-cycles. Hammerschmidt W, et al. Mol Biol Med 1990 Feb;7(1):45–57 (105 ref.)
Nucleosome assembly of simian virus 40 DNA in a mammalian cell extract. Banerjee S, et al. Mol Cell Biol 1990 Jun;10(6):2863–73
Evi-2, a common integration site involved in murine myeloid leukemogenesis. Buchberg AM, et al. Mol Cell Biol 1990 Sep;10(9):4658–66
Position effects on the timing of replication of chromosomally integrated simian virus 40 molecules in Chinese hamster cells. Gilbert DM, et al. Mol Cell Biol 1990 Aug; 10(8):4345–55
Simian virus 40 origin auxiliary sequences weakly facilitate T-antigen binding but strongly facilitate DNA unwinding. Gutierrez C, et al. Mol Cell Biol 1990 Apr;10(4):1719–28
Unusual features of integrated cDNAs generated by infection with genome-free retroviruses. Levine KL, et al. Mol Cell Biol 1990 May;10(5):1891–900
Gene transfer by retrovirus vectors occurs only in cells that are actively replicating at the time of infection. Miller DG, et al. Mol Cell Biol 1990 Aug;10(8):4239–42
The Wnt-1 (int-1) oncogene promoter and its mechanism of activation by insertion of proviral DNA of the mouse mammary tumor virus. Nusse R, et al. Mol Cell Biol 1990 Aug;10(8):4170–9
Evidence that replication initiates at only some of the potential origins in each oligomeric form of bovine papillomavirus type 1 DNA. Schvartzman JB, et al. Mol Cell Biol 1990 Jun;10(6):3078–86
Molecular diagnosis of genital HPV DNA types by polymerase chain reaction and sensitivity-standardized filter in situ hybridization in randomly sampled cohorts of Singapore women. Chow V, et al. Mol Cell Probes 1990 Apr;4(2):121–31
Detection and typing of human papillomavirus DNA from cervical biopsies by the slot-blot hybridization method. David F, et al. Mol Cell Probes 1990 Feb;4(1):53–61
Proviral sequences detection of human immunodeficiency virus in seronegative subjects by polymerase chain reaction. Ensoli F, et al. Mol Cell Probes 1990 Apr;4(2):153–61
Novel replication mutant of microvirid phage alpha 3 deleted in the complementary strand origin. Kodaira K, et al. Mol Gen Genet 1990 Jan;220(2):240–4
Co-transfer of restriction endonucleases and plasmid DNA into mammalian cells by electroporation: effects on stable transformation. Yorifuji T, et al. Mutat Res 1990 Feb; 243(2):121–6
The preS2/S region of integrated hepatitis B virus DNA encodes a transcriptional transactivator. Kekulé AS, et al. Nature 1990 Feb 1;343(6257):457–61
Human immunodeficiency viruses. Too close for comfort [news] Wain-Hobson S, et al. Nature 1990 Sep 6; 347(6288):18
Hepatitis B virus integration in a cyclin A gene in a hepatocellular carcinoma. Wang J, et al. Nature 1990 Feb 8;343(6258):555–7
Sequence of an avian adenovirus (CELO) DNA fragment (0–11.2%). Akopian TA, et al. Nucleic Acids Res 1990 May 11;18(9):2825
Detection of specific protein binding to the SV40 early promoter in vivo. Albrecht GR, et al. Nucleic Acids Res 1989 Oct 11;17(19):7945–63
Intron mobility in phage T4 is dependent upon a distinctive class of endonucleases and independent of DNA sequences encoding the intron core: mechanistic and evolutionary implications. Bell-Pedersen D, et al. Nucleic Acids Res 1990 Jul 11;18(13):3763–70
Complete nucleotide sequence of LTR, v-src, LTR provirus H-19. Bodor J, et al. Nucleic Acids Res 1989 Nov 11; 17(21):8869
A DNA-binding domain of human transcription factor IIIC2. Boulanger PA, et al. Nucleic Acids Res 1989 Oct 11; 17(19):7761–70
Nucleotide sequence of cDNA encoding the BYMV coat protein gene. Boye K, et al. Nucleic Acids Res 1990 Aug 25;18(16):4926
Functional analysis of the Bacillus subtilis bacteriophage SPP1 pac site. Bravo A, et al. Nucleic Acids Res 1990 May 25;18(10):2881–6
Selection for wild type size derivatives of tomato golden mosaic virus during systemic infection. Elmer S, et al. Nucleic Acids Res 1990 Apr 25;18(8):2001–6
Epidermodysplasia verruciformis associated human papillomaviruses present a subgenus-specific organization of the regulatory genome region. Ensser A, et al. Nucleic Acids Res 1990 Jul 11;18(13):3919–22
DNA sequence of satellite bacteriophage P4. Halling C, et al. Nucleic Acids Res 1990 Mar 25;18(6):1649
The complete sequence of soybean chlorotic mottle virus DNA and the identification of a novel promoter. Hasegawa A, et al. Nucleic Acids Res 1989 Dec 11;17(23):9993–10013
Sequence-specific functions of the early palindrome domain within the SV40 core origin of replication. Kim YS, et al. Nucleic Acids Res 1989 Nov 25;17(22):9279–89
A cDNA clone closely associated with non-A, non-B hepatitis. Maéno M, et al. Nucleic Acids Res 1990 May 11;18(9):2685–9
A simple high yield method for the preparation of lambda gt10 DNA suitable for subcloning, amplification and direct sequencing. Malik AN, et al. Nucleic Acids Res 1990 Jul 11;18(13):4031–2
Single amino acid changes that alter the DNA sequence specificity of the DNA-[N6-adenine] methyltransferase (Dam) of bacteriophage T4. Miner Z, et al. Nucleic Acids Res 1989 Oct 25;17(20):8149–57
Nucleotide sequence of the infectious cloned DNA components of African cassava mosaic virus (Nigerian strain). Morris B, et al. Nucleic Acids Res 1990 Jan 11; 18(1):197–8
Molecular organization of sbcC, a gene that affects genetic recombination and the viability of DNA palindromes in

Escherichia coli K-12. Naom IS, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8033-45

Nucleotide sequence of the PA gene of influenza A/WSN/33(H1N1). Odagiri T, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):654

Nucleotide sequence of the HPV16 L1 open reading frame. Parton A. **Nucleic Acids Res** 1990 Jun 25;18(12):3631

Infectious DNA of the human spumaretrovirus. Rethwilm A, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):733-8

Heteroduplex between an EMBL3 genomic clone and a lambda gt11 cDNA clone provides internal size standards. Scherer G, et al. **Nucleic Acids Res** 1990 Aug 25; 18(16):4944

Automated fluorescent sequencing of lambda DNA. Voss H, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5314

Expression of adenovirus type 2 DNA polymerase in insect cells infected with a recombinant baculovirus. Watson CJ, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1167-73

Bacteriophage T4 regA protein binds to the Shine-Dalgarno region of gene 44 mRNA. Webster KR, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10047-68

Construction of recombinant DNA molecules by the use of a single stranded DNA generated by the polymerase chain reaction: its application to chimeric hepatitis A virus/poliovirus subgenomic cDNA. Wychowski C, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):913-8

In situ nucleoprotein structure involving origin-proximal SV40 DNA control elements. Zhang L, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1797-803

The E6 and E7 genes of HPV-18 are sufficient for inducing two-stage in vitro transformation of human keratinocytes. Barbosa MS, et al. **Oncogene** 1989 Dec;4(12):1529-32

Tax-independent binding of multiple cellular factors to Tax-response element DNA of HTLV-I. Beimling P, et al. **Oncogene** 1990 Mar;5(3):361-8

Co-amplification of integrated hepatitis B virus DNA and transforming gene hst-1 in a hepatocellular carcinoma. Hatada I, et al. **Oncogene** 1988 Nov;3(5):537-40

Transformation of NIH3T3 cells by A-MuLV proviral DNA: effect of plasmid linearization and carrier DNA on transformation efficiency. Shore SK, et al. **Oncogene** 1989 Nov;4(11):1411-3

Complex interaction of SV40 large T antigen with the control region on the SV40 DNA. Stetter G, et al. **Oncogene** 1989 Nov;4(11):1353-7

DNA sequence analysis of the Hind III M fragment from Chinese vaccine strain of vaccinia virus. Liu VJ, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(4):215-9

Human papilloma virus DNAs immortalize normal human mammary epithelial cells and reduce their growth factor requirements. Band V, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):463-7

Provirus insertion in Tpl-1, an Ets-1-related oncogene, is associated with tumor progression in Moloney murine leukemia virus-induced rat thymic lymphomas. Bear SE, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7495-9

Frameshift errors initiated by nucleotide misincorporation. Bebenek K, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):4946-50

DNA fingerprinting by sampled sequencing. Brenner S, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8902-6

In vitro maturation and encapsidation of the DNA of transposable Mu-like phage D108. Burns CM, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6092-6

A trans-activator function is generated by integration of hepatitis B virus preS/S sequences in human hepatocellular carcinoma DNA. Caselmann WH, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2970-4

Continuous expression and replication of the hepatitis delta virus genome in Hep G2 hepatoblastoma cells transfected with cloned viral DNA. Chen PJ, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5253-7

Suppression of mouse mammary tumor proviral DNA and protooncogene expression: association with nutritional regulation of mammary tumor development. Chen RF, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2385-9

Hemimethylation of DNA prevents chromatin expression. Deobagkar DD, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1691-5

Evidence that retroviral transduction is mediated by DNA not by RNA. Goodrich DW, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3604-8

Amplification and detection of lentiviral DNA inside cells. Haase AT, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):4971-5

Thermal unwinding of simian virus 40 transcription complex DNA. Lutter LC. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):8712-6

DNA amplification-restricted transcription-translation: rapid analysis of rhesus rotavirus neutralization sites [published erratum appears in Proc Natl Acad Sci U S A 1990 Jun;87(11):4411] Mackow ER, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):518-22

Tissue and strain-specific patterns of endogenous proviral hypomethylation analyzed by two-dimensional gel electrophoresis. Mietz JA, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2269-73

Detection of antibody against antigen expressed by molecularly cloned hepatitis C virus cDNA: application to diagnosis and blood screening for posttransfusion hepatitis. Miyamura T, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):983-7

Broad spectrum of in vivo forward mutations, hypermutations, and mutational hotspots in a retroviral shuttle vector after a single replication cycle: substitutions, frameshifts, and hypermutations. Pathak VK, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6019-23

Construction of a recombinant human parvovirus B19: adeno-associated virus 2 (AAV) DNA inverted terminal repeats are functional in an AAV-B19 hybrid virus. Srivastava CH, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(20):8078-82

Defective viral DNA ameliorates symptoms of geminivirus infection in transgenic plants. Stanley J, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6291-5

Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs. Sternberg N. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):103-7

Trans-activation function of a 3'truncated X gene-cell fusion product from integrated hepatitis B virus DNA in chronic hepatitis tissues. Takada S, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5628-32

Molecular cloning and sequence of cDNA encoding polyoma medium tumor antigen-associated 61-kDa protein. Walter G, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8669-72

Venom and viral expression products of the endoparasitic wasp Campoletis sonorensis share epitopes and related sequences. Webb BA, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):4961-5

Enhanced resolution of DNA restriction fragments: a procedure by two-dimensional electrophoresis and double-labeling. Yi M, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3919-23

Production of transgenic mice carrying the human hepatitis B virus or the human papillomavirus DNA sequences in Taiwan: analysis of physical structure and hereditary mode. Choo KB, et al. **Proc Natl Sci Counc Repub China [B]** 1989 Oct;13(4):314-8

Expression of hepatitis B virus DNA sequences in cell culture. Acs G, et al. **Prog Liver Dis** 1990;9:379-89 (135 ref.)

Rapid and efficient site-specific mutagenesis. Baldrich M, et al. **Protein Eng** 1990 May;3(6):563

Determination of the complete nucleotide sequence of HBV adr NC-1 DNA. Qi ZH, et al. **Sci China [B]** 1989 Sep; 32(9):1082-6

Long-range activation of transcription by SV40 enhancer is affected by "inhibitory" or "permissive" DNA sequences between enhancer and promoter. Schreiber E, et al. **Somat Cell Mol Genet** 1989 Nov;15(6):591-603

DNase I hypersensitive site maps to the HBV enhancer. Akmal M, et al. **Virology** 1989 Oct;172(2):478-88

Size and stability of the Epstein-Barr virus major internal repeat (IR-1) in Burkitt's lymphoma and lymphoblastoid cell lines. Allan GJ, et al. **Virology** 1989 Dec;173(2):489-98

The divergence between two oncogenic Herpesvirus saimiri strains in a genomic region related to the transforming phenotype. Biesinger B, et al. **Virology** 1990 Jun; 176(2):505-14

Genetic variation of African swine fever virus: variable regions near the ends of the viral DNA. Blasco R, et al. **Virology** 1989 Nov;173(1):251-7

Structural and functional characterization of the unusually short long terminal repeats and their adjacent regions of a novel endogenous avian retrovirus. Boyce-Jacino MT, et al. **Virology** 1989 Nov;173(1):157-66

The coat protein of beet curly top virus is essential for infectivity. Briddon RW, et al. **Virology** 1989 Oct; 172(2):628-33

The role of the viroid central conserved region in cDNA infectivity. Candresse T, et al. **Virology** 1990 Mar; 175(1):232-7

Immortalization of primary rat embryo cells by human papillomavirus type 11 DNA is enhanced upon cotransfer of ras. Cerni C, et al. **Virology** 1990 Aug;177(2):427-36

cDNA cloning of each genomic segment of the group B rotavirus ADRV: molecular characterization of the 11th RNA segment. Chen GM, et al. **Virology** 1990 Apr; 175(2):605-9

Physical structure and molecular cloning of equine cytomegalovirus DNA. Colacino JM, et al. **Virology** 1989 Dec;173(2):566-80

Genetic organization of gibbon ape leukemia virus. Delassus S, et al. **Virology** 1989 Nov;173(1):205-13

The replication of viral and cellular DNA in human herpesvirus 6-infected cells. Di Luca D, et al. **Virology** 1990 Mar;175(1):199-210

Improvements of the infectivity of in vitro transcripts from cloned cowpea mosaic virus cDNA: impact of terminal nucleotide sequences. Eggen R, et al. **Virology** 1989 Dec; 173(2):447-55

Complementary DNA cloning and hybridization analysis of maize stripe virus RNAs. Falk BW, et al. **Virology** 1989 Nov;173(1):338-42

Membrane association and secretion of the Japanese encephalitis virus NS1 protein from cells expressing NS1 cDNA. Fan WF, et al. **Virology** 1990 Aug;177(2):470-6

Sequence analysis of the inverted terminal repetition in the genome of the parapoxvirus, orf virus. Fraser KM, et al. **Virology** 1990 Jun;176(2):379-89

Nucleotide sequence of gene segment 1 of a porcine rotavirus strain. Fukuhara N, et al. **Virology** 1989 Dec;173(2):743-9

Nucleotide sequence and genome organization of biologically active proviruses of the bovine immunodeficiency-like virus. Garvey KJ, et al. **Virology** 1990 Apr;175(2):391-409

Herpes simplex virus-induced "rolling circle" amplification of SV40 DNA sequences in a transformed hamster cell line correlates with tandem integration of the SV40 genome. Gerspach R, et al. **Virology** 1989 Dec;173(2):723-7

Wing web or intravenous inoculation of chickens with v-src DNA induces visceral sarcomas. Halpern MS, et al. **Virology** 1990 Mar;175(1):328-31

Localization by mutational analysis of transcription factor binding sequences in the U3 region of Rous sarcoma virus LTR. Kenny S, et al. **Virology** 1990 Jun;176(2):483-93

Genome organization and taxonomic position of human papillomavirus type 47 inferred from its DNA sequence. Kiyono T, et al. **Virology** 1990 Jul;177(1):401-5

The primary structure of major viral RNA in a rat cell line transfected with type 47 human papillomavirus DNA and the transforming activity of its cDNA and E6 gene. Kiyono T, et al. **Virology** 1989 Dec;173(2):551-65

Molecular cloning and comparative sequence analyses of bluetongue virus S1 segments by selective synthesis of specific full-length DNA copies of dsRNA genes. Kowalik TF, et al. **Virology** 1990 Aug;177(2):820-3

Identification of p74, a gene essential for virulence of baculovirus occlusion bodies. Kuzio J, et al. **Virology** 1989 Dec;173(2):759-63

Nucleotide sequences responsible for the inability of a herpes simplex virus type 2 strain to grow in human lymphocytes are identical to those responsible for its inability to grow in mouse tissues following ocular infection. Lausch RN, et al. **Virology** 1990 Jun;176(2):319-28

Mapping and sequence of the gene coding for protein p72, the major capsid protein of African swine fever virus. López-Otín C, et al. **Virology** 1990 Apr;175(2):477-84

Polyadenylation function and sequence variability of the long terminal repeats of the human endogenous retrovirus-like family RTVL-H. Mager DL. **Virology** 1989 Dec; 173(2):591-9

The sim gene of Escherichia coli phage P1: nucleotide sequence and purification of the processed protein. Maillou J, et al. **Virology** 1990 Apr;175(2):500-7

Rapid reversion of a deletion mutation in Moloney murine leukemia virus by recombination with a closely related endogenous provirus. Martinelli SC, et al. **Virology** 1990 Jan;174(1):133-44

A homologue of retroviral pseudoproteases in the parapoxvirus, orf virus. Mercer AA, et al. **Virology** 1989 Oct;172(2):665-8

Structure and transcription of the glycoprotein gene of attenuated HEP-Flury strain of rabies virus. Morimoto K, et al. **Virology** 1989 Dec;173(2):465-77

Cloning and expression of NDV hemagglutinin-neuraminidase cDNA in a baculovirus expression vector system. Nagy E, et al. **Virology** 1990 Jun; 176(2):426-38

Nucleotide sequence analysis of SA-OMVV, a visna-related ovine lentivirus: phylogenetic history of lentiviruses. Querat G, et al. **Virology** 1990 Apr;175(2):434-47

Avian retrovirus integration protein: structure-functional analysis of viable mutants. Quinn TP, et al. **Virology** 1989 Dec;173(2):478-88

Comparative sequence studies of variants of avocado sunblotch viroid. Rakowski AG, et al. **Virology** 1989 Nov; 173(1):352-6

Infectious in vitro transcripts from a plum pox potyvirus cDNA clone. Riechmann JL, et al. **Virology** 1990 Aug; 177(2):710-6

Nucleotide sequence of a circular single-stranded DNA associated with coconut foliar decay virus. Rohde W, et al. **Virology** 1990 Jun;176(2):648-51

Mutational analysis of the coat protein gene of tobacco mosaic virus in relation to hypersensitive response in tobacco plants with the N' gene. Saito T, et al. **Virology** 1989 Nov;173(1):11-20

Open reading frame VIII is not required for viability of cauliflower mosaic virus. Schultze M, et al. **Virology** 1990 Jun;176(2):662-4

Transcription and sequence studies of a 4.3-kbp fragment from a ds-DNA eukaryotic algal virus. Schuster AM, et al. **Virology** 1990 Jun;176(2):515-23

Nucleotide sequence of E1 region of canine adenovirus type 2. Shibata R, et al. **Virology** 1989 Oct;172(2):460-7

Identification of an enhancer-type sequence that is responsive to Z and R trans-activators of Epstein-Barr virus. Shimizu N, et al. **Virology** 1989 Oct;172(2):655-8

Incomplete particles of canine adenovirus type 1: occurrence and structure. Sira S, et al. **Virology** 1989 Nov; 173(1):188-95

Segregation of cauliflower mosaic virus symptom genetic determinants. Stratford R, et al. **Virology** 1989 Oct; 172(2):451-9

Herpes simplex virus neurovirulence and productive infection of neural cells is associated with a function which maps between 0.82 and 0.832 map units on the HSV genome. Thompson RL, et al. **Virology** 1989 Oct;172(2):435-50

Molecular cloning and sequence analysis of duck hepatitis B virus genomes of a new variant isolated from Shanghai ducks. Uchida M, et al. **Virology** 1989 Dec;173(2):600-6

Identification and DNA sequence of the Shope fibroma virus DNA topoisomerase gene. Upton C, et al. **Virology** 1990 Jun;176(2):439-47

Recombination sites in cauliflower mosaic virus DNAs: implications for mechanisms of recombination. Vaden VR, et al. **Virology** 1990 Aug;177(2):717–26

Characterization of adenovirus type 5 insertion and deletion mutants encoding altered DNA binding proteins. Vos HL, et al. **Virology** 1989 Oct;172(2):634–42

Nucleotide sequence and mode of transmission of the wild mouse ecotropic virus, HoMuLV. Voytek P, et al. **Virology** 1989 Nov;173(1):58–67

Identification of the bacteriophage Mu kil gene. Waggoner BT, et al. **Virology** 1989 Dec;173(2):378–89

S71 is a phylogenetically distinct human endogenous retroviral element with structural and sequence homology to simian sarcoma virus (SSV). Werner T, et al. **Virology** 1990 Jan;174(1):225–38

Identification of the site of recombination in the generation of the genome of DI particles of equine herpesvirus type 1. Yalamanchili RR, et al. **Virology** 1990 Apr;175(2):448–55

Structure of the bacteriophage lambda cohesive end site: bent DNA on both sides of the site, cosN, at which terminase introduces nicks during chromosome maturation. Yeo A, et al. **Virology** 1990 Jan;174(1):329–34

Identification and sequencing of the spheroidin gene of Choristoneura biennis entomopoxvirus. Yuen L, et al. **Virology** 1990 Apr;175(2):427–33

Molecular cloning of DNA sequences from cervical intraepithelial neoplasia that hybridize to human cytomegalovirus DNA. Fletcher K, et al. **Virus Genes** 1989 Aug;2(4):323–33

The influence of the herpes simplex virus–1 DNA template environment on the regulation of gene expression. Leary K, et al. **Virus Genes** 1989 Sep;3(1):57–68

Tumorigenic conversion of NIH 3T3 cells by transfection with Shope fibroma virus DNA. Obom KM, et al. **Virus Genes** 1989 Sep;3(1):5–10

Molecular cloning and primary structure analysis of the mouse mammary tumor virus–related element from dwarf hamster genome. Tikhonenko AT, et al. **Virus Genes** 1990 Feb;3(3):259–61

Episomal HPV 16 DNA isolated from a cervical carcinoma presents a partial duplication of the early region. Di Luca D, et al. **Virus Res** 1989 Sep;14(1):49–55

Expression of the outer capsid protein, VP2, from a full length cDNA clone of genome segment 2 of bluetongue serotype 1 from South Africa, using both Sp6 and vaccinia expression systems and a comparison of the nucleic acid sequence of this segment with those of other serotypes. Wade-Evans AM, et al. **Virus Res** 1990 Mar;15(3):213–29

[The diagnosis of human papillomaviruses in cervical smears by deoxyribonucleic acid hybridization] Mincheva A, et al. **Acta Microbiol Bulg** 1990;25:62–8 (Eng. Abstr.) **(Bul)**

[Studies on the hepatitis B virus in cell culture: I. Expression of cloned HBV DNA in the HEP G2 cell line] Wen YM. **Chung Hua I Hsueh Tsa Chih** 1989 May;69(5):260–3, 18 (Eng. Abstr.) **(Chi)**

[Physical mapping of strain AD169 human cytomegalovirus DNA] Dion M, et al. **Can J Microbiol** 1990 May; 36(5):341–7 (Eng. Abstr.) **(Fre)**

[Research conducted at the Stefan S. Nicolau Institute of Virology of Bucharest in the area of nucleic acids and genetic engineering] Popa LM, et al. **Virologie** 1989 Oct–Dec;40(4):297–303 (24 ref.) (Eng. Abstr.) **(Fre)**

[Molecular characterization of the hog cholera virus] Thiel HJ, et al. **Berl Munch Tierarztl Wochenschr** 1989 Nov 1; 102(11):378–81 (Eng. Abstr.) **(Ger)**

[Relevance of the polymerase chain reaction (PCR) for virus infections of the liver and gastrointestinal system] Theilmann L. **Z Gastroenterol [Verh]** 1990 Apr;25:87–8 (12 ref.) **(Ger)**

[The polymerase chain reaction as a sensitive genetic technics method of HIV and HPV diagnosis] Kirchesch H. **Z Hautkr** 1989 Aug 15;64(8):625–6 **(Ger)**

[The role of single-stranded DNA in the integration of SV40 genome into cellular DNA] Popov LS. **Biokhimiia** 1989 Nov;54(11):1815–20 (Eng. Abstr.) **(Rus)**

[Ambiguous substrate-coding properties of 8-oxy-GTP during synthesis of oligonucleotides with Escherichia coli RNA-polymerase on the DNA template of the T7 phage delta T7 mutant] Bruskov VI, et al. **Dokl Akad Nauk SSSR** 1989 Jul–Aug;307(1):243–6 **(Rus)**

[The effect of mutation in the beta-subunit of Escherichia coli RNA polymerase on the selectivity of complex formation with T7 DNA promoters] Kamzolova SG, et al. **Dokl Akad Nauk SSSR** 1989;309(2):487–91 **(Rus)**

[Inserted mutations induced in the yellow gene of Drosophila melanogaster by microinjection of oncogenic virus DNA into the polar plasma of early embryos] Nabirochkin SD, et al. **Dokl Akad Nauk SSSR** 1989;306(6):1473–5 **(Rus)**

[Induction of unstable mutations in Drosophila melanogaster by microinjections of DNA from oncogene viruses into the embryonic polar plasm. Part IV. Malignantization of tissues of mutant larvae] Nabirochkin SD, et al. **Genetika** 1989 Jul;25(7):1199–208 (Eng. Abstr.) **(Rus)**

[Nonisotope variant of genomic fingerprinting based on the phage M13 DNA in kinship studies in man] Prosniak MI, et al. **Genetika** 1990 Jan;26(1):134–7 (Eng. Abstr.) **(Rus)**

[Amplification of DNA sequences in Epstein-Barr virus and human immunodeficiency virus using DNA polymerase from Thermus thermophilus] Glukhov AI, et al. **Mol Biol (Mosk)** 1990 May–Jun;24(3):781–7 (Eng. Abstr.) **(Rus)**

[Sequences homologous to mouse mammary cancer virus are common in mammalian and avian genomes] Golovkina TV, et al. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):127–33 (Eng. Abstr.) **(Rus)**

[The use of filamentous phage M13 in protein engineering] Il'ichev AA, et al. **Mol Biol (Mosk)** 1990 Mar–Apr; 24(2):530–5 (Eng. Abstr.) **(Rus)**

[Mechanism of integration of cellular and viral DNA. Possible role of integration in the carcinogenesis] Stoliarov ZE. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):17–22 (24 ref.) (Eng. Abstr.) **(Rus)**

[Biological effects accompanying the microinjection of adenovirions, adenoviral and plasmid DNA into mammalian cells] Zavizion BA, et al. **Mol Biol (Mosk)** 1989 Jul–Aug;23(4):1022–35 (Eng. Abstr.) **(Rus)**

[UNG-dependent correction of molecular heteroduplexes of M13 phage DNA in Escherichia coli cells] Golubovskaia VM, et al. **Mol Gen Mikrobiol Virusol** 1989 Jul;(7):24–9 (Eng. Abstr.) **(Rus)**

[Restriction analysis of the DNA of aleutian mink disease virus strain P–1] Meshkov AIu, et al. **Mol Gen Mikrobiol Virusol** 1989 Dec;(12):30–3 (Eng. Abstr.) **(Rus)**

[Immunochemical analysis of the products of translation of mRNA hybridized with the left HindIII–A–Sa1–fragment of vaccinia virus DNA] Netesova NA, et al. **Mol Gen Mikrobiol Virusol** 1989 Nov;(11):21–3 (Eng. Abstr.) **(Rus)**

[Tick-borne encephalitis virus: primary structure of DNA copies of the genes for strain 205 structural proteins] Safronov PF, et al. **Mol Gen Mikrobiol Virusol** 1990 Jan; (1):6–13 (Eng. Abstr.) **(Rus)**

[Preparation and characteristics of a new transformed cell line G11 by transfection of NIH/3T3 mouse fibroblasts with DNA from the SA7 oncogene of simian adenovirus] Solov'ev GIa, et al. **Mol Gen Mikrobiol Virusol** 1989 Jul; (7):14–8 (Eng. Abstr.) **(Rus)**

[Genomic "dactyloscopy" with the use of bacteriophage M13 as a DNA probe (the expertise of material evidence and personal identification)] Ivanov PL, et al. **Sud Med Ekspert** 1989 Oct–Dec;32(4):39–42 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

From virus to vaccine: recombinant mammalian cell lines as substrates for the production of herpes simplex virus vaccines. Lasky LA. **J Med Virol** 1990 May;31(1):59–61 (10 ref.)

Vaccines, cells, and nucleic acids: conclusions. Zuckerman AJ, et al. **J Med Virol** 1990 May;31(1):2–4

Absence of cytomegalovirus DNA in kidneys in IgA nephropathy [letter] Béné MC, et al. **Lancet** 1990 Apr 7; 335(8693):868

Induction of an ATP-polymerizing enzyme in TMV-infected tobacco and its homology to the human 2'-5'A synthetase. Sher N, et al. **Virus Genes** 1990 Jun;4(1):27–39

ISOLATION & PURIFICATION

DNA amplification of HIV–1 in seropositive individuals and in seronegative at–risk individuals. Mariotti M, et al. **AIDS** 1990 Jul;4(7):633–7

A simple purification procedure for lambda gt bacteriophage DNA with hybridization size screening for isolation of longest length cDNA clones. Elliott RM, et al. **Anal Biochem** 1989 Nov 15;183(1):89–93

A bacteriophage lambda DNA purification procedure suitable for the analysis of DNA from either large or multiple small lysates. Lockett TJ. **Anal Biochem** 1990 Mar; 185(2):230–4

Is papillomavirus detectable in the plume of laser–treated laryngeal papilloma? Abramson AL, et al. **Arch Otolaryngol Head Neck Surg** 1990 May;116(5):604–7

Detection of pseudorabies virus DNA sequences by the polymerase chain reaction. Belák S, et al. **Arch Virol** 1989; 108(3–4):279–86

A convenient moderate-scale procedure for obtaining DNA from bacteriophage lambda. Chisholm D. **Biotechniques** 1989 Jan;7(1):21–3

Semi-dry electroblotting of DNA. Fleming JE, et al. **Biotechniques** 1988 Nov–Dec;6(10):926, 928–9

In situ hybridization with digoxigenin–labeled DNA of human papillomaviruses (HPV 16/18) in HeLa and SiHa cells. Heiles HB, et al. **Biotechniques** 1988 Nov–Dec; 6(10):978–81

Automated methods for single-stranded DNA isolation and dideoxynucleotide DNA sequencing reactions on a robotic workstation. Mardis ER, et al. **Biotechniques** 1989 Sep; 7(8):840–50

High resolution purification of DNA restriction fragments using HPLC. Merion M, et al. **Biotechniques** 1988 Mar; 6(3):246–8, 251

A rapid procedure for creating nested sets of deletions using mini–prep plasmid DNA samples. Steggles AW. **Biotechniques** 1989 Mar;7(3):241–2

Rapid phage DNA isolation without the use of enzymes. Tsonis PA, et al. **Biotechniques** 1988 Nov–Dec;6(10):950–1

Use of ammonium sulfate precipitation and guanidine isothiocyanate lysis to isolate lambda DNA. Verma M. **Biotechniques** 1989 Mar;7(3):230–2

A reliable method for the purification of bacteriophage lambda DNA. White BA, et al. **Biotechniques** 1989 Jul–Aug;7(7):694, 696

A simple technique for preparing pure lambda DNA [published erratum appears in Biotechniques 1988 Sep;6(8):727] Windle BE. **Biotechniques** 1988 May;6(5):402, 404, 406–8

Detection of papillomavirus DNA in human prostatic tissue by Southern blot analysis. McNicol PJ, et al. **Can J Microbiol** 1990 May;36(5):359–62

Detection of HPV 6 and 11 in tumours of the upper respiratory tract using the polymerase chain reaction. Bryan RL, et al. **Clin Otolaryngol** 1990 Apr;15(2):177–80

An improved boiling method for the preparation of bacterial plasmid and phage DNA. Ortlepp SA. **Gene Anal Tech** 1989 Sep–Oct;6(5):93–6

Purification of bacteriophage DNA by gel filtration chromatography. González A, et al. **Genet Anal** 1990 Feb; 7(1):2–4

RNA analysis and isolation of cDNAs derived from the human cytomegalovirus immediate-early region at 0.24 map units. Tenney DJ, et al. **Intervirology** 1990; 31(2–4):203–14

Viral genomes in lymphomas of patients with Sjögren's syndrome. Fox RI, et al. **J Autoimmun** 1989 Aug; 2(4):449–55

An unusual retrovirus–like sequence identified in human DNA. Levy LS, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1613–8

Hepatitis B virus DNA patterns in the liver of children with chronic hepatitis B. Bartolomé J, et al. **J Med Virol** 1990 Jul;31(3):195–9

Natural history of experimental woodchuck hepatitis virus infection: molecular virologic features of the pancreas, kidney, ovary, and testis. Korba BE, et al. **J Virol** 1990 Sep;64(9):4499–506

Segregation patterns of endogenous mouse mammary tumor viruses in five recombinant inbred strain sets. Lee BK, et al. **J Virol** 1990 Sep;64(9):4568–72

Is herpes simplex virus associated with peptic ulcer disease? Löhr JM, et al. **J Virol** 1990 May;64(5):2168–74

Herpes simplex virus DNA synthesis at a preformed replication fork in vitro. Rabkin SD, et al. **J Virol** 1990 Oct;64(10):4957–67

Viral DNA in horses infected with equine infectious anemia virus. Rice NR, et al. **J Virol** 1989 Dec;63(12):5194–200

Temperate bacteriophages of Streptococcus pneumoniae that contain protein covalently linked to the 5' ends of their DNA. Romero A, et al. **J Virol** 1990 Oct;64(10):5149–55

Analysis of integrated human papillomavirus type 16 DNA in cervical cancers: amplification of viral sequences together with cellular flanking sequences. Wagatsuma M, et al. **J Virol** 1990 Feb;64(2):813–21

Detection of B19 parvovirus infections by a dot–blot hybridization assay using a digoxigenin–labelled probe. Azzi A, et al. **J Virol Methods** 1990 Feb;27(2):125–33

An in–vivo infectivity assay for cloned retroviruses lacking a susceptible cell culture. Gak E, et al. **J Virol Methods** 1990 May;28(2):147–54

Detection of human papillomavirus DNA in cervical cancer tissue by the polymerase chain reaction. He YK, et al. **J Virol Methods** 1989 Oct;26(1):17–25

Purification of genomic sized herpesvirus DNA using pulse–field electrophoresis. Isfort RJ, et al. **J Virol Methods** 1990 Mar;27(3):311–7

A new method for extracting DNA or RNA for polymerase chain reaction. Yamada O, et al. **J Virol Methods** 1990 Feb;27(2):203–9

Persistence of hepatitis B virus DNA after serological clearance of hepatitis B virus. Tanaka Y, et al. **Liver** 1990 Feb;10(1):6–10

Pulmonary involvement in infectious mononucleosis: histopathologic features and detection of Epstein–Barr virus–related DNA sequences. Myers JL, et al. **Mod Pathol** 1989 Sep;2(5):444–8

Detection of parvovirus B19 by dot–blot and polymerase chain reaction. Sevall JS. **Mol Cell Probes** 1990 Jun; 4(3):237–46

Diagnosis of HTLV–I infected seronegative neurological patients by polymerase chain reaction amplification in Martinique. d'Auriol L, et al. **Nouv Rev Fr Hematol** 1990; 32(1):113–6

A simple and rapid method for the isolation of plasmid and lambda phage DNAs. Bansal OB, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10129

Quick method for high yields of lambda bacteriophage DNA. Meese E, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1923

Amplification of Epstein–Barr virus genomic sequences in blood cells, lacrimal glands, and tears from primary Sjögren's syndrome patients. Pflugfelder SC, et al. **Ophthalmology** 1990 Aug;97(8):976–84

Prolactin effects on the dietary regulation of mouse mammary tumor virus proviral DNA expression. Hamada N, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6733–7

Early events in hepatitis C virus infection of chimpanzees. Shimizu YK, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(16):6441–4

Identification of EBV–DNA in lymph nodes from patients with lymphadenopathy and lymphomas associated with AIDS. Chappuis BB, et al. **Virchows Arch [B]** 1990; 58(3):199–205

Molecular cloning of a novel human papillomarvirus (type 58) from an invasive cervical carcinoma. Matsukura T, et al. **Virology** 1990 Aug;177(2):833–6

[DNA amplification using the polymerase chain reaction

method applied to the detection of HIV-1 in seropositive subjects and in seronegative subjects at risk] Mariotti M, et al. **Rev Fr Transfus Hemobiol** 1989 Sep;32(4):253–63 (Eng. Abstr.) (Fre)

[Isolation of a cDNA clone derived from variant type of hepatitis C virus] Maeno M, et al. **Nippon Rinsho** 1990 Jan; 48(1):21–6 (Jpn)

[Cultivation of hepatitis A virus in various cell lines and isolation of DNA sequences] Farashian VR, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):23–6 (Eng. Abstr.) (Rus)

[Stable recombinants of bacteriophage M13 and plasmid pBR322] Dagert M. **Acta Cient Venez** 1989;40(2):124–6 (Eng. Abstr.) (Spa)

METABOLISM

Human papillomavirus DNA in respiratory papillomatosis detected by in situ hybridization and the polymerase chain reaction. Levi JE, et al. **Am J Pathol** 1989 Dec; 135(6):1179–84

Generation of deletion subclones for sequencing by partial digestion with restriction endonucleases. Lamperti ED, et al. **Anal Biochem** 1990 Feb 15;185(1):187–93

DNA packaging in dsDNA bacteriophages. Black LW. **Annu Rev Microbiol** 1989;43:267–92 (162 ref.)

Evidence for nonintercalative complexes formed from the reversible binding of benzo[a]pyrene metabolites to closed-circular, single-stranded M13mp19 DNA. Price HL, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1095–102

13C NMR of methylated lysines of fd gene 5 protein: evidence for a conformational change involving lysine 24 upon binding of a negatively charged lanthanide chelate. Dick LR, et al. **Biochemistry** 1989 Sep 19;28(19):7896–904

Reduced DNA flexibility in complexes with a type II DNA binding protein. Härd T, et al. **Biochemistry** 1990 Jan 30; 29(4):959–65

31P NMR spectra of an oligodeoxyribonucleotide duplex lac operator–repressor headpiece complex. Karslake C, et al. **Biochemistry** 1990 Jul 17;29(28):6578–84

Proton-linked contributions to site-specific interactions of lambda cI repressor and OR. Senear DF, et al. **Biochemistry** 1990 Jul 17;29(28):6568–77

Site-specific mutagenesis of T4 gene 32: the role of tyrosine residues in protein–nucleic acid interactions. Shamoo Y, et al. **Biochemistry** 1989 Sep 5;28(18):7409–17

Kinetics of binding of single-stranded DNA binding protein from Escherichia coli to single-stranded nuclei acids. Urbanke C, et al. **Biochemistry** 1990 Feb 20;29(7):1744–9

The detection of human immunodeficiency virus DNA in dendritic cells from the joints of patients with aseptic arthritis. Hughes RA, et al. **Br J Rheumatol** 1990 Jun; 29(3):166–70

Progressive resistance to doxorubicin in mouse leukemia L1210 cells with multidrug resistance phenotype: reductions in drug-induced topoisomerase II–mediated DNA cleavage. Ganapathi R, et al. **Cancer Commun** 1989; 1(4):217–24

Enzymatic formation and resolution of Holliday junctions in vitro. Müller B, et al. **Cell** 1990 Jan 26;60(2):329–36

The subtypes, distribution and location of human papillomavirus DNA in genital warts and genital Bowen's disease—a study using in situ DNA.DNA hybridization. Jee SH, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):267–77

Recombination between adenovirus DNA and the mammalian genome. Doerfler W, et al. **Curr Top Microbiol Immunol** 1989;144:209–16 (31 ref.)

Effect of amino acid phosphorylation on the DNA binding properties of large T antigen. Klausing K, et al. **Curr Top Microbiol Immunol** 1989;144:31–5

SV40 T antigen catalyzed duplex DNA unwinding. Scheffner M, et al. **Curr Top Microbiol Immunol** 1989;144:37–45

The X protein of the hepatitis B virus acts as a transcription factor when targeted to its responsive element. Unger T, et al. **EMBO J** 1990 Jun;9(6):1889–95

The DNA binding domain (POU domain) of transcription factor oct-1 suffices for stimulation of DNA replication. Verrijzer CP, et al. **EMBO J** 1990 Jun;9(6):1883–8

Electron microscopy of DNA.helicase-I complexes in the act of strand separation. Wessel R, et al. **Eur J Biochem** 1990 Apr 30;189(2):277–85

Binding properties of avian retroviral proteins. III. Binding of protein ASLV MA(p19) to viral RNA and proviral DNA. Felsberg J, et al. **Folia Biol (Praha)** 1990;36(1):23–31

Binding properties of avian retroviral proteins. II. Binding of protein ASLV NC(p12) to viral RNA and proviral DNA. Felsberg J, et al. **Folia Biol (Praha)** 1990;36(1):12–22

In situ hybridization analysis of human papillomavirus DNA segregation patterns in lesions of the female genital tract. Nuovo GJ, et al. **Gynecol Oncol** 1990 Feb;36(2):256–62

Growth-factor independence of a new differentiated hepatitis B virus DNA–negative human hepatoma cell line. Bagnarelli P, et al. **Hepatology** 1990 Jun;11(6):1024–32

CpG methylation of viral DNA in EBV-associated tumours. Allday MJ, et al. **Int J Cancer** 1990 Jun 15;45(6):1125–30

Association between phage DNA injection and generation of the protonmotive force in Staphylococcus aureus. Vinnikov AI, et al. **Int J Med Microbiol** 1989 Dec; 272(2):145–53

Bacteriophage lambda DNA: the beginning of the end. Becker A, et al. **J Bacteriol** 1990 Jun;172(6):2819–24 (41 ref.)

Underwinding of DNA associated with duplex-duplex pairing by RecA protein. Conley EC, et al. **J Biol Chem** 1990 Jun 15;265(17):10156–63

Probing the activation stages of the RecA protein by monoclonal IgGs during the pairing of homologous DNA molecules. Ikeda M, et al. **J Biol Chem** 1990 May 25; 265(15):8957–65

"Macromolecular crowding": thermodynamic consequences for protein–protein interactions within the T4 DNA replication complex. Jarvis TC, et al. **J Biol Chem** 1990 Sep 5;265(25):15160–7

Properties of recA441 protein-catalyzed DNA strand exchange can be attributed to an enhanced ability to compete with SSB protein. Lavery PE, et al. **J Biol Chem** 1990 Mar 5;265(7):4004–10

On RecA protein–mediated homologous alignment of two DNA molecules. Three strands versus four strands. Lindsley JE, et al. **J Biol Chem** 1990 Jun 15; 265(17):10164–71

Characterization of DNA–protein complex formation in nuclear extracts with a sequence from the herpes simplex virus thymidine kinase gene. Papavassiliou AG, et al. **J Biol Chem** 1990 Jan 25;265(3):1648–57

Interaction of cell and virus proteins with DNA sequences encompassing the promoter/regulatory and leader regions of the herpes simplex virus thymidine kinase gene. Papavassiliou AG, et al. **J Biol Chem** 1990 Jun 5; 265(16):9402–12

RecA protein promoted homologous pairing in vitro. Pairing between linear duplex DNA bound to HU Protein (nucleosome cores) and nucleoprotein filaments of recA protein–single-stranded DNA. Ramdas J, et al. **J Biol Chem** 1989 Oct 15;264(29):17395–400

Formation of heteroduplex DNA promoted by the combined activities of Escherichia coli recA and recBCD proteins. Roman LJ, et al. **J Biol Chem** 1989 Nov 5;264(31):18340–8

Stoichiometry of DNA binding by the bacteriophage SP01–encoded type II DNA–binding protein TF1. Schneider GJ, et al. **J Biol Chem** 1990 Jun 25; 265(18):10198–200

Two binding sites for the herpes simplex virus type 1 UL9 protein are required for efficient activity of the oriS replication origin. Weir HM, et al. **J Gen Virol** 1990 Jun; 71 (Pt 6):1379–85

Expression and function of the uvsW gene of bacteriophage T4. Derr LK, et al. **J Mol Biol** 1990 Aug 5;214(3):643–56

Conformational changes in bacteriophage phi 29 connector prevents DNA–binding activity. Herranz L, et al. **J Mol Biol** 1990 May 20;213(2):263–73

DNA replication studies with coliphage 186. III. A single phage gene is required for phage 186 replication. Sivaprasad AV, et al. **J Mol Biol** 1990 Jun 5;213(3):449–63

Acute and persistent varicella–zoster virus infection of human and murine neuroblastoma cell lines. Bourdon-Wouters C, et al. **J Neurosci Res** 1990 May;26(1):90–7

An in vivo model of varicella–zoster virus latent infection of dorsal root ganglia. Sadzot-Delvaux C, et al. **J Neurosci Res** 1990 May;26(1):83–9

Binding of steroid receptors to the HREs of mouse mammary tumor virus, chicken and xenopus vitellogenin and rabbit uteroglobin genes: correlation with induction. Slater EP, et al. **J Steroid Biochem** 1989;34(1–6):11–6

Topoisomerase II cleavage of herpes simplex virus type 1 DNA in vivo is replication dependent. Ebert SN, et al. **J Virol** 1990 Sep;64(9):4059–66

A single element within the hepatitis B virus enhancer binds multiple proteins and responds to multiple stimuli. Faktor O, et al. **J Virol** 1990 Apr;64(4):1861–3

Structural diversity and nuclear protein binding sites in the long terminal repeats of feline leukemia virus. Fulton R, et al. **J Virol** 1990 Apr;64(4):1675–82

DNA–binding proteins that interact with the long terminal repeat of radiation leukemia virus. Gorska-Flipot I, et al. **J Virol** 1990 Apr;64(4):1566–72

The avian retroviral integration protein cleaves the terminal sequences of linear viral DNA at the in vivo sites of integration. Katzman M, et al. **J Virol** 1989 Dec; 63(12):5319–27

Identification within the simian virus 40 genome of a chromosomal loop attachment site that contains topoisomerase II cleavage sites. Pommier Y, et al. **J Virol** 1990 Jan;64(1):419–23

Topoisomerase I and II cleavage of adenovirus DNA in vivo: both topoisomerase activities appear to be required for adenovirus DNA replication. Schaack J, et al. **J Virol** 1990 Jan;64(1):78–85

Identification of a domain of the herpes simplex virus trans-activator Vmw65 required for protein–DNA complex formation through the use of protein A fusion proteins. Werstuck G, et al. **J Virol** 1989 Dec; 63(12):5509–13

Proteins of viral and cellular origin bind to the Aleutian disease virus (ADV) DNA 3'-terminal hairpin: presentation of a scheme for encapsidation of ADV DNA. Willwand K, et al. **J Virol** 1990 Apr;64(4):1598–605

Differential DNA binding of nuclear proteins to a long terminal repeat region of the MCF13 and Akv murine leukemia viruses. Yoshimura FK, et al. **J Virol** 1989 Nov; 63(11):4945–8

Rapid antiviral DNA–DNA hybridization assay for human cytomegalovirus. Dankner WM, et al. **J Virol Methods** 1990 Jun;28(3):293–8

Unintegrated DNA in cells infected in vitro with human immunodeficiency virus (HIV): a new approach to suppression of virus release. Masuda T, et al. **J Virol Methods** 1990 Jun;28(3):219–33

Endogenous virus genomes become hypomethylated tissue—specifically during aging process of C57BL mice. Ono T, et al. **Mech Ageing Dev** 1989 Oct;50(1):27–36

Topoisomerase I is associated with the regulatory region of transcriptionally active SV 40 minichromosomes. Vassetzky YS Jr, et al. **Mol Cell Biochem** 1990 Jun 25; 95(2):95–106

UV-induced early-domain binding factor as the limiting component of simian virus 40 DNA amplification in rodent cells. Lücke-Huhle C, et al. **Mol Cell Biol** 1989 Nov; 9(11):4812–18

Properties of the DNA-binding domain of the simian virus 40 large T antigen. McVey D, et al. **Mol Cell Biol** 1989 Dec;9(12):5525–36

DNA-binding and transcriptional properties of human transcription factor TFIID after mild proteolysis. Van Dyke MW, et al. **Mol Cell Biol** 1990 Jul;10(7):3415–20

A molecular analysis of terminase cuts in headful packaging of Salmonella phage P22. Schmieger H, et al. **Mol Gen Genet** 1990 Apr;221(2):199–202

Role of the incorporation of (E)-5-(2-iodovinyl)-2'-deoxyuridine and its carbocyclic analogue into DNA of herpes simplex virus type 1–infected cells in the antiviral effects of these compounds. Balzarini J, et al. **Mol Pharmacol** 1990 Mar;37(3):402–7

Cytosine methylation in CTF and Sp1 recognition sites of an HSV tk promoter: effects on transcription in vivo and on factor binding in vitro. Ben-Hattar J, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10179–90

Nucleosome positioning as a critical determinant for the DNA cleavage sites of mammalian DNA topoisomerase II in reconstituted simian virus 40 chromatin. Capranico G, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4553–9

Transcriptional activation of human papillomavirus 16 by nuclear factor I, AP1, steroid receptors and a possibly novel transcription factor, PVF: a model for the composition of genital papillomavirus enhancers. Chong T, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):465–70

P1 nuclease defines a subpopulation of active SV40 chromatin—a new nuclease hypersensitivity assay. Chu Y, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3705–11

The major transcriptional regulatory protein of herpes simplex virus type 1 includes a protease resistant DNA binding domain. Everett RD, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4579–85

FseI, a new type II restriction endonuclease that recognizes the octanucleotide sequence 5' GGCCGGCC 3'. Nelson JM, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2061–4

Some restriction endonucleases tolerate single mismatches of the pyrimidine.purine type. Petranović M, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2159–62

BbrPI, a novel PmacI isoschizomer from Bacillus brevis recognizing 5'-CAC/GTG-3'. Vesely Z, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3423

Functional domains in the bacteriophage phi 29 terminal protein for interaction with the phi 29 DNA polymerase and with DNA. Zaballos A, et al. **Nucleic Acids Res** 1989 Dec 25;17(24):10353–66

Hydroxyl radical footprints reveal novel structural features around the NF I binding site in adenovirus DNA. Zorbas H, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7735–48

Transforming growth factor-beta represses transcription of the mouse mammary tumour virus DNA in cultured mouse mammary cells. Cato AC, et al. **Oncogene** 1990 Jan; 5(1):103–10

Conversion of a helix-turn-helix motif sequence-specific DNA binding protein into a site-specific DNA cleavage agent. Ebright RH, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2882–6

Integration of human immunodeficiency virus type 1 DNA in vitro. Farnet CM, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4164–8

Binding of the herpes simplex virus major regulatory protein to viral DNA. Michael N, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9808–12

Alkylation interference identifies essential DNA contacts for sequence-specific binding of the eukaryotic transcription factor C/EBP. Nye JA, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3992–6

Intercalators promote the binding of RecA protein to double-stranded DNA. Thresher RJ, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5056–60

Expression of the two reovirus S1 gene products in transfected mammalian cells. Fajardo E, et al. **Virology** 1990 Sep;178(1):223–31

In vitro cleavage of the concatemer joint of bacteriophage T3 DNA. Fujisawa H, et al. **Virology** 1990 Jan;174(1):26–34

The cauliflower mosaic virus gene III product is a non-sequence-specific DNA binding protein. Mesnard JM, et al. **Virology** 1990 Feb;174(2):622–4

Inhibition of specific binding of EBNA 1 to DNA by murine monoclonal and certain human polyclonal antibodies. Orlowski R, et al. **Virology** 1990 Jun;176(2):638–42

Enteric adenovirus 41 (Tak) requires low serum for growth in human primary cells. Pieniazek D, et al. **Virology** 1990 Sep;178(1):72–80

The short arm of chromosome 11 likely is involved in the regulation of the human papillomavirus type 16 early enhancer-promoter and in the suppression of the transforming activity of the viral DNA. Smits PH, et al. **Virology** 1990 May;176(1):158–65

Binding of cellular protein(s) to U3 region of human T-cell leukemia virus type-I long terminal repeat. Adachi Y, et al. **Virus Genes** 1989 Aug;2(4):307–11

A possible approach to enrich cDNA yields with full-length molecules. Zaslavsky V, et al. **Virus Genes** 1990 Jun; 4(1):63–72

Persistence of parvovirus H-1 DNA in human B- and T-lymphoma cells. Faisst S, et al. **Virus Res** 1990 Jun; 16(2):211–23

Rapid detection of genomic variations in different strains of hantaviruses by polymerase chain reaction techniques and nucleotide sequence analysis. Giebel LB, et al. **Virus Res** 1990 Jun;16(2):127–36

[The behavior of HBV DNA in acute HBV hepatitis: considerations on a case] Sampaolesi A, et al. **Riv Eur Sci Med Farmacol** 1988 Jun;10(3):233–5 (Eng. Abstr.) **(Ita)**

[Energy of cooperative transitions in bacteriophage SD] Mrevlishvili GM, et al. **Biofizika** 1990 Mar–Apr; 35(2):263–8 (Eng. Abstr.) **(Rus)**

[The use of OsO_4-pyridine reagent for studying decarboxylated amino acid complexes with DNA] Karpov AV, et al. **Mikrobiol Zh** 1986 Sep–Oct;48(5):78–81 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Immunoglobulin isotypes of anti-HBc and anti-HBe and hepatitis B virus (HBV) DNA elimination in acute hepatitis B. Sällberg M, et al. **J Med Virol** 1989 Dec;29(4):296–302

PHARMACOLOGY

Oncogenic transformation by human papillomavirus type 16 deoxyribonucleic acid in the presence of progesterone or progestins from oral contraceptives. Pater A, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1099–103

Nucleic acids can regulate the activity of casein kinase II. Gatica M, et al. **FEBS Lett** 1989 Sep 25;255(2):414–8

PHYSIOLOGY

Integration of retroviral DNA into the genome of the infected cell. Goff SP. **Cancer Cells** 1990 Jun;2(6):172–8 (66 ref.)

The biological activity of early SV40 antisense RNA and DNA molecules. Graessmann M, et al. **Curr Top Microbiol Immunol** 1989;144:97–103

The structure and function of retroviral long terminal repeats. Majors J. **Curr Top Microbiol Immunol** 1990;157:49–92 (294 ref.)

Role of the herpes simplex virus 1 internal repeat sequences in pathogenicity. Jenkins FJ, et al. **Intervirology** 1990; 31(2–4):129–38

Analysis of the kinetic hairpin transfer model for parvoviral DNA replication. Tyson JJ, et al. **J Theor Biol** 1990 May 22;144(2):155–69

Study on the function of the bent DNA within adenovirus type 2 EIA enhancer: analysis using an in vitro transcription system. Ohyama T, et al. **Nucleic Acids Symp Ser** 1989;(21):15–6

Bending and supercoiling of DNA at the attachment site of bacteriophage lambda. Nash HA. **Trends Biochem Sci** 1990 Jun;15(6):222–7 (41 ref.)

RADIATION EFFECTS

Low-dose-rate effect of tritium beta-rays on transfection activity of phage DNA related to an oxidative species different from .OH, HO_2. O_2^-, and H_2O_2. Yamamoto O, et al. **Biochem Int** 1990;20(5):903–11

Evidence for an involvement of thymidine kinase in the excision repair of ultraviolet-irradiated herpes simplex virus in human cells. Intine RV, et al. **Environ Mol Mutagen** 1990;15(1):19–23

Irradiation of the template with high-intensity (pulse-laser) ultraviolet light results in DNA-polymerase termination events at deoxyguanosine residues. Panyutin IG, et al. **FEBS Lett** 1989 Dec 4;258(2):274–6

Mutations induced by 60Co gamma-irradiation in double-stranded M13 bacteriophage DNA in nitrous-oxide saturated solutions are characterized by a high specificity. Hoebee B, et al. **Int J Radiat Biol** 1989 Oct;56(4):401–11

Cellular and adenovirus dl312 DNA metabolism in cycling or mitotic human cultures exposed to supralethal gamma radiation. Ross PM. **J Cell Biol** 1989 Nov;109(5):1993–2002

Respective roles of pyrimidine dimer and pyrimidine (6–4) pyrimidone photoproducts in UV mutagenesis of simian virus 40 DNA in mammalian cells. Bourre F, et al. **J Virol** 1989 Nov;63(11):4520–4

DNA damage and biological expression of adenovirus: a comparison of liquid versus frozen conditions of exposure to gamma rays. Bennett CB, et al. **Radiat Res** 1989 Oct; 120(1):102–12

ULTRASTRUCTURE

Solution structure of phage lambda half-operator DNA by use of NMR, restrained molecular dynamics, and NOE-based refinement. Baleja JD, et al. **Biochemistry** 1990 May 22;29(20):4828–39

Renaturation and DNA looping promoted by the SV40 large tumour antigen. Schiedner G, et al. **EMBO J** 1990 Sep; 9(9):2937–43

Form determination of the heads of bacteriophages. Kellenberger E. **Eur J Biochem** 1990 Jun 20;190(2):233–48 (90 ref.)

A study of phi X-174 DNA torus and lambda DNA torus tertiary structure and the implications for DNA self-assembly. Marx KA, et al. **J Biomol Struct Dyn** 1986 Aug;4(1):23–39

Resolution of poxvirus telomeres: processing of vaccinia virus concatemer junctions by conservative strand exchange. Merchlinsky M. **J Virol** 1990 Jul;64(7):3437–46

Structural analysis of human papillomavirus type 6c isolates from condyloma acuminatum and juvenile-onset and adult-onset laryngeal papillomata. Metcalfe L, et al. **Virus Genes** 1989 Sep;3(1):11–27

Intracellular organization of herpes simplex virus type 1 DNA assayed by staphylococcal nuclease sensitivity. Lentine AF, et al. **Virus Res** 1990 Jul;16(3):275–92

URINE

High incidence of urinary JC virus excretion in nonimmunosuppressed older patients. Kitamura T, et al. **J Infect Dis** 1990 Jun;161(6):1128–33

Isolation of a possible archetypal JC virus DNA sequence from nonimmunocompromised individuals. Yogo Y, et al. **J Virol** 1990 Jun;64(6):3139–43

[Detection of hepatitis B virus DNA in urine of asymptomatic HBsAg carriers] Dai ZS. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1990 Jun; 11(3):138–40 (Eng. Abstr.) **(Chi)**

DNA VIRUSES

The changing complexion of DNA viruses. **Intervirology** 1990;31(2–4):63–240

[Malpighian epithelia infected by DNA viruses and Langerhans cells] Chardonnet Y, et al. **Pathol Biol (Paris)** 1989 Oct;37(8):927–36 (95 ref.) (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

Broad-spectrum antiviral activity of carbodine, the carbocyclic analogue of cytidine. De Clercq E, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):319–25

Selective virus inhibitors. De Clercq E. **Microbiologica** 1990 Apr;13(2):165–78 (88 ref.)

[Structure-activity relation for rhodomycin-type antibiotics and the inhibition kinetics of single-stranded and double-stranded DNA- and RNA-viruses] Körting HJ, et al. **Vopr Virusol** 1989 Nov–Dec;34(6):724–7 (Eng. Abstr.) **(Rus)**

GENETICS

Insect baculoviruses: powerful gene expression vectors. Miller LK. **Bioessays** 1989 Oct;11(4):91–5 (23 ref.)

Cellular proteins that are targets for transformation by DNA tumour viruses. Buchkovich K, et al. **Ciba Found Symp** 1990;150:262–71; discussion 271–8 (40 ref.)

A new superfamily of putative NTP-binding domains encoded by genomes of small DNA and RNA viruses. Gorbalenya AE, et al. **FEBS Lett** 1990 Mar 12;262(1):145–8

The genetic engineering of baculovirus for foreign gene expression. Maruniak JE. **Mem Inst Oswaldo Cruz** 1989;84 Suppl 3:61–2 (9 ref.)

The p53 protein and its interactions with the oncogene products of the small DNA tumor viruses. Levine AJ. **Virology** 1990 Aug;177(2):419–26 (72 ref.)

Transcription and sequence studies of a 4.3-kbp fragment from a ds-DNA eukaryotic algal virus. Schuster AM, et al. **Virology** 1990 Jun;176(2):515–23

IMMUNOLOGY

Porcine circovirus antigens in PK-15 cell line (ATCC CCL-33) and evidence of antibodies to circovirus in Canadian pigs. Dulac GC, et al. **Can J Vet Res** 1989 Oct; 53(4):431–3

PHYSIOLOGY

Explants of human oral epithelium exposed to viruses and cancer chemotherapeutics. Ebbesen P, et al. **J Oral Pathol Med** 1989 Sep;18(8):481–4

ULTRASTRUCTURE

Morphological characterization of chicken anaemia agent (CAA). Gelderblom H, et al. **Arch Virol** 1989; 109(1–2):115–20

Ultrastructural, protein composition, and antigenic comparison of psittacine beak and feather disease virus purified from four genera of psittacine birds. Ritchie BW, et al. **J Wildl Dis** 1990 Apr;26(2):196–203

DNAASE see **DEOXYRIBONUCLEASES**

DNASE see **DEOXYRIBONUCLEASES**

DNASE I see **DEOXYRIBONUCLEASE I**

DNASE, SITE-SPECIFIC, TYPE I see **DEOXYRIBONUCLEASES, TYPE I SITE-SPECIFIC**

DNASE, SITE-SPECIFIC, TYPE II see **DEOXYRIBONUCLEASES, TYPE II SITE-SPECIFIC**

DNASE, SITE-SPECIFIC, TYPE III see **DEOXYRIBONUCLEASES, TYPE III SITE-SPECIFIC**

DNCB see **DINITROCHLOROBENZENE**

DOBUTAMINE

ADMINISTRATION & DOSAGE

Influence of preinduction methoxamine, lactated Ringer solution, or hypertonic saline solution infusion or postinduction dobutamine infusion on anesthetic-induced hypotension in horses. Dyson DH, et al. **Am J Vet Res** 1990 Jan;51(1):17–21

Is intermittent dobutamine infusion useful in the treatment of patients with refractory congestive heart failure? Stecy P, et al. **Cardiovasc Clin** 1990;21(1):277–89; discussion 290–1 (46 ref.)

Intravenous infusions of nitroprusside, dobutamine, and nitroglycerin are compatible [see comments] Horrow JC, et al. **Crit Care Med** 1990 Aug;18(8):858–61 Comment in: Crit Care Med 1990 Aug;18(8):896.

Response to dopamine and dobutamine in the preterm infant less than 30 weeks gestation. Miall-Allen VM, et al. **Crit Care Med** 1989 Nov;17(11):1166–9

Dobutamine administration in septic shock: addition to a standard protocol. Vincent JL, et al. **Crit Care Med** 1990 Jul;18(7):689–93

Intermittent dobutamine infusion in severe chronic heart failure in elderly patients. Van den Brande P, et al. **Gerontology** 1990;36(1):49–54

Stability of dopamine hydrochloride injection in the presence of dobutamine hydrochloride, tolazoline hydrochloride, and theophylline injections. Bhatt-Mehta V, et al. **J Perinatol** 1990 Jun;10(2):129–33

ADVERSE EFFECTS

[Does the combination of trinitrine-dobutamine alter the relation between coronary output/myocardial function in man?] Sirodot M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R106 **(Fre)**

BLOOD

Interference by an endogenous substance in the HPLC assay of dobutamine in dog plasma. Comparison study on rat, dog, monkey, and human plasma. Campanale KM, et al. **Acta Pharm Nord** 1989;1(4):221–4

DIAGNOSTIC USE

Preoperative evaluation of cardiac risk using dobutamine-thallium imaging in vascular surgery. Zellner JL, et al. **Ann Vasc Surg** 1990 May;4(3):238–43

Assessment of ventricular function in infants and children. Response to dobutamine infusion. Hurwitz RA, et al. **Clin Nucl Med** 1990 Aug;15(8):556–9

Sensitivity and specificity of dobutamine—electrocardiography test to detect multivessel disease after acute myocardial infarction. Coma-Canella I. **Eur Heart J** 1990 Mar;11(3):249–57

Haemodynamic alterations during ischaemia induced by dobutamine stress testing. Piérard LA, et al. **Eur Heart J** 1989 Sep;10(9):783–90

Identification of viable myocardium by echocardiography during dobutamine infusion in patients with myocardial infarction after thrombolytic therapy: comparison with positron emission tomography. Piérard LA, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1021–31

Regional wall motion abnormality and its relation to myocardial histopathological change and clinical prognosis in dilated cardiomyopathy—usefulness of dobutamine loading echocardiographic study. Nakanishi M, et al. **Jpn Circ J** 1990 Mar;54(3):249–59

[Dobutamine stress thallium myocardial scintigraphy compared with two-dimensional echocardiography] Obayashi T, et al. **J Cardiol** 1989 Mar;19(1):67–77 (Eng. Abstr.) **(Jpn)**

[The evaluation of viability in infarcted myocardium using gated blood pool scintigraphy during combined infusion of isosorbide dinitrate and dobutamine infusion] Kubota Y, et al. **Kaku Igaku** 1990 Feb;27(2):165–72 **(Jpn)**

[Dobutamine infusion test for predicting the postoperative recovery of left ventricular function in patients with chronic aortic regurgitation] Kanda H. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov; 37(11):2281–90 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Dopamine, dopexamine and dobutamine as inotropic and automatotropic agents. Lengyel C, et al. **Acta Physiol Hung** 1990;75 Suppl:193–4

Effect of dobutamine on skeletal muscle metabolism in patients with congestive heart failure. Mancini DM, et al. **Am J Cardiol** 1990 May 1;65(16):1121–6

Dobutamine and improvement of regional and global left ventricular function in coronary artery disease. Movahed

A, et al. **Am J Cardiol** 1990 Aug 1;66(3):375–7
Regional myocardial function in the presence of coronary artery stenosis and inotropic intervention: a case for myocardial hibernation? Coetzee A, et al. **Anesth Analg** 1990 Oct;71(4):327–33
Glucoregulation under beta-adrenergic stimulation by dobutamine and terbutaline in the male rat. Keck FS, et al. **Arzneimittelforschung** 1990 Apr;40(4):425–8
Haemodynamic effects of the phosphodiesterase inhibitor enoximone in comparison with dobutamine in esmolol-treated cardiac surgery patients. Boldt J, et al. **Br J Anaesth** 1990 May;64(5):611–6
A study of the comparative effects of enoximone and dobutamine on urinary output after open heart surgery. Zeplin HE, et al. **Br J Clin Pract Symp Suppl** 1988 Dec; 64:65–8
Effect of cardiac output on gas exchange in one-lung atelectasis. Mathru M, et al. **Chest** 1990 May;97(5):1121–4
Dobutamine potentiates amrinone's beneficial effects in moderate but not in advanced heart failure. 31P-MRS in isolated hamster hearts. Buser PT, et al. **Circ Res** 1990 Mar; 66(3):747–53
Radionuclide assessment of left ventricular function during dobutamine infusion in patients with coronary artery disease: comparison with ergometer exercise. Konishi T, et al. **Clin Cardiol** 1990 Mar;13(3):183–8
Continuous multi-channel intravascular monitoring of the effects of dopamine and dobutamine on plasma potassium in dogs. Drake HF, et al. **Intensive Care Med** 1989; 15(7):446–51
The effects of beta blockade on dopamine and dobutamine induced hypokalaemia in dogs. Smith M, et al. **Intensive Care Med** 1989;15(7):452–7
Effect of inotropic and vasodilator therapy on left ventricular diastolic filling in dogs with severe left ventricular dysfunction. Lavine SJ, et al. **J Am Coll Cardiol** 1990 Apr; 15(5):1165–72
Vascular responses to dopamine and dobutamine in the awake calf during constant aortic flow or constant aortic pressure. Greiner AS, et al. **J Cardiovasc Pharmacol** 1990 Mar; 15(3):392–7
The effect of inotropic dose of dobutamine during reperfusion on myocardial infarct size. Ooiwa H, et al. **Jpn Circ J** 1989 Dec;53(12):1511–20
Myocardial effects of adrenaline, isoprenaline and dobutamine at hypothermic conditions. Riishede L, et al. **Pharmacol Toxicol** 1990 May;66(5):354–60
Dopamine versus dobutamine: are all the facts there? Mutnick AH, et al. **Pharmacotherapy** 1990;10(3):224–9 (31 ref.)
Changes in the mixed venous blood oxygen saturation during the acute phase of myocardial infarction and administration of dobutamine. Koeda T, et al. **Tohoku J Exp Med** 1990 Jan;160(1):55–65
[Effects of dopamine and dobutamine on hepatic circulation and metabolism in hemorrhagic hypotensive pigs] Kageshima K, et al. **Masui** 1990 May;39(5):592–9 (Eng. Abstr.) **(Jpn)**
[Effect of stimulation of adrenergic beta receptors on electrophysiologic properties of the bundle of Kent in patients with intermittent Wolff-Parkinson-White syndrome] Molenda W, et al. **Kardiol Pol** 1989;32(6):311–8 (Eng. Abstr.) **(Pol)**

THERAPEUTIC USE

Septic shock: a goal-directed therapy using volume loading, dobutamine and/or norepinephrine. Martin C, et al. **Acta Anaesthesiol Scand** 1990 Jul;34(5):413–7
Dynamics of functional mitral regurgitation during dobutamine therapy in patients with severe congestive heart failure: a Doppler echocardiographic study. Keren G, et al. **Am Heart J** 1989 Oct;118(4):748–54
Myocardial energetics and efficiency in patients with idiopathic cardiomyopathy: response to dobutamine and amrinone. Sundram P, et al. **Am Heart J** 1990 Apr; 119(4):891–8
Usefulness of dopexamine hydrochloride versus dobutamine in chronic congestive heart failure and effects on hemodynamics and urine output. Baumann G, et al. **Am J Cardiol** 1990 Mar 15;65(11):748–54
Role of tricuspid regurgitation and left ventricular damage in the treatment of right ventricular infarction–induced low cardiac output syndrome. Dhainaut JF, et al. **Am J Cardiol** 1990 Aug 1;66(3):289–95
Inotropic response to dobutamine in elderly patients with decompensated congestive heart failure. Rich MW, et al. **Am J Cardiol** 1990 Feb 15;65(7):519–21
Oxygen uptake/supply dependency. Effects of short-term dobutamine infusion. Vincent JL, et al. **Am Rev Respir Dis** 1990 Jul;142(1):2–7
Comparison of haemodynamic efficacy of enoximone and dobutamine in coronary surgery patients. Boldt J, et al. **Br J Clin Pract Symp Suppl** 1988 Dec;64:41–5
Use of survivors' cardiorespiratory values as therapeutic goals in septic shock. Edwards JD, et al. **Crit Care Med** 1989 Nov;17(11):1098–103
Outpatient dobutamine for end-stage congestive heart failure. Miller LW, et al. **Crit Care Med** 1990 Jan;18(1 Pt 2):S30–3
Cardiovascular responses to dobutamine determined by systolic time intervals in preterm infants. Stopfkuchen H, et al. **Crit Care Med** 1990 Jul;18(7):722–4
Potentiation of the effects of enoximone by a dobutamine infusion. Vincent JL, et al. **Intensive Care Med** 1989; 15(8):530–1
Influence of positive inotropic therapy on pulsatile hydraulic load and ventricular–vascular coupling in congestive heart failure [see comments] Binkley PF, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1127–35 Comment in: J Am Coll Cardiol 1990 Apr;15(5):1136–7.
Improved cardiac performance secondary to dobutamine: the role of ventricular–vascular coupling [editorial; comment] Freeman GL. **J Am Coll Cardiol** 1990 Apr;15(5):1136–7 Comment on: J Am Coll Cardiol 1990 Apr;15(5):1127–35.
Cardiovascular effects of forskolin (HL 362) in patients with idiopathic congestive cardiomyopathy—a comparative study with dobutamine and sodium nitroprusside. Baumann G, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):93–100
Comparative hemodynamic effects of intravenous dobutamine and dibutyryl cyclic AMP, a new inotropic agent, in severe congestive heart failure. Miyagi Y, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):138–43
Home intravenous dobutamine therapy in patients awaiting heart transplantation. Collins JA, et al. **J Heart Transplant** 1990 May–Jun;9(3 Pt 1):205–8
Dopamine and dobutamine in pediatric therapy. Bhatt-Mehta V, et al. **Pharmacotherapy** 1989;9(5):303–14 (70 ref.)
[Comparison of enoximone and dobutamine treatment on cardiac output after cardiac surgery] Lançon JP, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R230 **(Fre)**
[Comparison of enoximone versus tobutamine in the treatment of low cardiac output after cardiac surgery] Lançon JP, et al. **Ann Fr Anesth Reanim** 1990;9(3):289–94 (Eng. Abstr.) **(Fre)**
[Severe cardiac decompensation: value in the early hours of a combination of amrinone and dobutamine] Fosse JP, et al. **Cah Anesthesiol** 1989 Dec;37(8):581–5 (Eng. Abstr.) **(Fre)**
[Dobutamine during anesthesia of patients at risk for heart failure. A controlled prospective multicenter study of 93 surgical patients over 64 years of age] Lehot JJ, et al. **Cah Anesthesiol** 1989 Sep;37(5):319–26 (Eng. Abstr.) **(Fre)**
[Short-term dobutamine therapy in severe cardiac insufficiency] Weiss P, et al. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):190–3 (Eng. Abstr.) **(Ger)**
[Personal observations of dobutamine effectiveness after surgery with extracorporeal circulation] Iwaszkiewicz A, et al. **Pol Tyg Lek** 1989 Feb 6;44(6):153–5 (Eng. Abstr.) **(Pol)**

TOXICITY

Comparative cardiovascular toxicity in dogs given inotropic agents by continuous intravenous infusion. Sandusky GE, et al. **Toxicol Pathol** 1990;18(2):268–78

DOCA see **DESOXYCORTICOSTERONE**

DOCOSAHEXAENOATE see **DOCOSAHEXAENOIC ACIDS**

DOCOSAHEXAENOIC ACIDS

ANALYSIS

Occurrence of geometrical isomers of eicosapentaenoic and docosahexaenoic acids in liver lipids of rats fed heated linseed oil. Grandgirard A, et al. **Lipids** 1989 Sep; 24(9):799–804
Fatty acid composition of some South African fresh-water fish. Chetty N, et al. **S Afr Med J** 1989 Oct 7;76(7):368–70

METABOLISM

Changes in phospholipid fatty acid composition of mouse cardiac organelles after feeding graded amounts of docosahexaenoate in presence of high levels of linoleate. Effect on cardiac ATPase activities. Croset M, et al. **Ann Nutr Metab** 1989;33(3):125–42
Identification of hydroxyalkenals formed from omega-3 fatty acids. Beckman JK, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):75–80
The Zellweger syndrome: deficient conversion of docosahexaenoic acid (22:6(n-3)) to eicosapentaenoic acid (20:5(n-3)) and normal delta 4-desaturase activity in cultured skin fibroblasts. Grønn M, et al. **Biochim Biophys Acta** 1990 May 22;1044(2):249–54
4-Hydroxyhexenal: a lipid peroxidation product derived from oxidized docosahexaenoic acid. Van Kuijk FJ, et al. **Biochim Biophys Acta** 1990 Mar 12;1043(1):116–8
Dietary effects on brain fatty acid composition: the reversibility of n-3 fatty acid deficiency and turnover of docosahexaenoic acid in the brain, erythrocytes, and plasma of rhesus monkeys. Connor WE, et al. **J Lipid Res** 1990 Feb;31(2):237–47
Docosahexaenoic acid utilization during rod photoreceptor cell renewal. Gordon WC, et al. **J Neurosci** 1990 Jul; 10(7):2190–202
In vitro study of docosahexaenoic acid incorporation into phosphatidylcholine by enzymes of rat heart. Bouroudian M, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):119–28
Glutamate is the endogenous amino acid selectively released by rat hippocampal mossy fiber synaptosomes concomitantly with prodynorphin-derived peptides. Terrian DM, et al. **Neurochem Res** 1990 Jan;15(1):1–5
Severe deficiency of docosahexaenoic acid in peroxisomal disorders: a defect of delta 4 desaturation? Martinez M. **Neurology** 1990 Aug;40(8):1292–8
Docosahexaenoic acid is the preferred dietary n-3 fatty acid for the development of the brain and retina. Anderson GJ, et al. **Pediatr Res** 1990 Jan;27(1):89–97
The metabolism of omega-3 polyunsaturated fatty acids in the eye: the possible role of docosahexaenoic acid and docosanoids in retinal physiology and ocular pathology. Bazan NG. **Prog Clin Biol Res** 1989;312:95–112 (56 ref.)

PHARMACOKINETICS

Recovery of fish oil-derived fatty acids in lymph of thoracic duct-cannulated Wistar rats. Reicks M, et al. **Lipids** 1990 Jan;25(1):6–10
[Comparative bioavailability of eicosapentaenoic acid and docasahexaenoic acid from triglycerides, free fatty acids and ethyl esters in volunteers] Beckermann B, et al. **Arzneimittelforschung** 1990 Jun;40(6):700–4 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Divergent lipoprotein responses to fish oils with various ratios of eicosapentaenoic acid and docosahexaenoic acid. Childs MT, et al. **Am J Clin Nutr** 1990 Oct;52(4):632–9
Effects of eicosapentaenoic and docosahexaenoic acids on apoprotein B mRNA and secretion of very low density lipoprotein in HepG2 cells. Wong SH, et al. **Arteriosclerosis** 1989 Nov–Dec;9(6):836–41
In vitro effect of eicosapentaenoic and docosahexaenoic acids on prostaglandin E2 synthesis in a human lung carcinoma. de Antueno RJ, et al. **Biochem Int** 1989 Sep;19(3):489–96
Fish oil: a panacea? Bilo HJ, et al. **Biomed Pharmacother** 1990;44(3):169–74 (65 ref.)
Short-term effects of omega-3 fatty acids on exercise stress test parameters, angina and lipoproteins. Vacek JL, et al. **Biomed Pharmacother** 1989;43(5):375–9 (20 ref.)
A comparison of the effects of linolenic (18:3 omega 3) and docosahexaenoic (22:6 omega 3) acids on phospholipid bilayers. Ehringer W, et al. **Chem Phys Lipids** 1990 May; 54(2):79–88
Docosahexaenoic acid, a constituent of rodent fetal serum and fish oil diets, inhibits acquisition of macrophage tumoricidal function. Dustin LB, et al. **J Immunol** 1990 Jun 15;144(12):4888–97
Trans n-3 eicosapentaenoic and docosahexaenoic acid isomers exhibit different inhibitory effects on arachidonic acid metabolism in human platelets compared to the respective cis fatty acids. O'Keefe SF, et al. **J Lipid Res** 1990 Jul;31(7):1241–6
Fish oil and baroreceptor function in man. Weisser B, et al. **Klin Wochenschr** 1990;68 Suppl 20:49–52
Albumin-bound docosahexaenoic acid and collagen-induced human platelet reactivity. Gaudette DC, et al. **Lipids** 1990 Mar;25(3):166–9
Guinea pig epidermis generates putative anti-inflammatory metabolites from fish oil polyunsaturated fatty acids. Miller C, et al. **Lipids** 1989 Dec;24(12):998–1003
Feeding pure docosahexaenoate or arachidonate decreases plasma triacylglycerol secretion in rats. Williams MA, et al. **Lipids** 1989 Sep;24(9):753–8
Effect of eicosapentaenoic and docosahexaenoic acids on blood pressure in hypertension. A population-based intervention trial from the Tromsø study. Bønaa KH, et al. **N Engl J Med** 1990 Mar 22;322(12):795–801
Cardiovascular properties of hydroxylated docosahexaenoates. Karanian JW, et al. **Prog Clin Biol Res** 1989;301:511–5
Effect of albumin-bound DHA on phosphoinositide phosphorylation in collagen stimulated human platelets. Gaudette DC, et al. **Thromb Res** 1990 May 15;58(4):435–44

THERAPEUTIC USE

Effect of fish oil treatment on plasma lipoproteins in type III hyperlipoproteinaemia. Mølgaard J, et al. **Atherosclerosis** 1990 Feb;81(1):1–9
Cytotoxicity of chlorambucil and chlorambucil-fatty acid conjugates against human lymphomas and normal human peripheral blood lymphocytes. Anel A, et al. **Biochem Pharmacol** 1990 Sep 15;40(6):1193–200
Effects of dietary supplementation with polyunsaturated ethyl ester lipids (Angiosan) in patients with psoriasis and psoriatic arthritis. Lassus A, et al. **J Int Med Res** 1990 Jan–Feb;18(1):68–73

DOCOSAHEXENOIC ACIDS see **DOCOSAHEXAENOIC ACIDS**

DOCTOR-PATIENT RELATIONS see **PHYSICIAN-PATIENT RELATIONS**

DOCUMENTATION

see related
RECORDS

Cheap protection [letter] Hall JK. **Am J Nurs** 1990 Aug; 90(8):20
Uniform Terminology for Occupational Therapy—Second Edition. **Am J Occup Ther** 1989 Dec;43(12):808–15
A medical review approach to Medicare outpatient documentation. Allen C, et al. **Am J Occup Ther** 1989 Dec; 43(12):793–800

Application of uniform terminology to practice. Dunn W, et al. **Am J Occup Ther** 1989 Dec;43(12):817–31
Legal aspects of requiring physician orders, changing records, documenting who first assists. Murphy EK. **AORN J** 1989 Oct;50(4):874–7
Immunisation state and its documentation in hospital patients. Ferson MJ. **Arch Dis Child** 1990 Jul;65(7):763–7
Documentation in laparoscopic surgery. Wamsteker K. **Baillieres Clin Obstet Gynaecol** 1989 Sep;3(3):625–47 (10 ref.)
ABC of child abuse. Medical reports. Meadow R, et al. **BMJ** 1989 Sep 2;299(6699):616–7 (0 ref.)
Assessment of menstrual blood loss using a pictorial chart. Higham JM, et al. **Br J Obstet Gynaecol** 1990 Aug; 97(8):734–9
Impounding incident-related devices. **Health Devices** 1988 Feb;17(2):53–5
Anatomic rubber stamps of the face and body to document procedures in dermatologic surgery: one picture is worth a thousand words. Mohs FE, et al. **J Dermatol Surg Oncol** 1990 Mar;16(3):280–91
The physician–patient privilege: the practical necessity of a written patient waiver. Biggs RA 3d, et al. **J Miss State Med Assoc** 1990 Apr;31(4):127–30
Portfolios and RNs: an evaluation. Oechsle L, et al. **J Nurs Educ** 1990 Feb;29(2):54–9
Documenting sexual abuse in prepubertal girls. Aiken MM. **MCN** 1990 May–Jun;15(3):176–7
Data ownership. But what is the problem? [news] Anderson GC. **Nature** 1990 May 3;345(6270):8
Life after Section 89. Sansweet JB. **Pa Med** 1990 Feb;93(2):54
Epidemiology of sickness certification—a methodological approach based on a study from Buskerud County in Norway. Tellnes G, et al. **Scand J Soc Med** 1989; 17(3):245–51
Persuasive citations [letter] Dawson AG. **Trends Biochem Sci** 1989 Aug;14(8):326
The bias of citations [letter] Dumont JE. **Trends Biochem Sci** 1989 Aug;14(8):327–8
From bad to worse: evaluation by Journal Impact [letter] Seglen PO. **Trends Biochem Sci** 1989 Aug;14(8):326–7
Citapeer or peercit? [letter] Siebert G. **Trends Biochem Sci** 1989 Aug;14(8):328
Inhibitors and facilitators to documentation of nursing practice. Tapp RA. **West J Nurs Res** 1990 Apr;12(2):229–40
[Good clinical practice. Requirements for clinical documentation on the introduction of new drugs] Dirach J. **Ugeskr Laeger** 1990 Apr 2;152(14):992–4 (12 ref.) (Eng. Abstr.) **(Dan)**
[Significance of the registration of the location of the testis in juvenile health care in order to prevent needless orchidopexies (letter)] De Vries JD. **Ned Tijdschr Geneeskd** 1990 Jan 6;134(1):39–40 **(Dut)**
[Log book registration of farms for slaughtering pigs in the Integrated Quality Control Project. I. Use of drugs and vaccines] Elbers AR, et al. **Tijdschr Diergeneeskd** 1990 Mar 15;115(6):249–61 (Eng. Abstr.) **(Dut)**
[Documentation of the death certificate for stillborn infants/infants dying before 1 year of age] Zachoch H, et al. **Z Gesamte Hyg** 1989 Jul;35(7):393–5 (Eng. Abstr.) **(Ger)**
[The accessibility of medical documentation (letter)] **Orv Hetil** 1990 Jun 24;131(25):1389 **(Hun)**
[Accessibility of medical documentation and its deficiencies. (Problems of the public health brochure) (letter)] Németh E. **Orv Hetil** 1990 Mar 25;131(12):663 **(Hun)**
[Dynamics of the flow of Soviet scientific documents in social hygiene and public health organization] Rytvinskii SS. **Sov Zdravookhr** 1989;(12):48–53 (Eng. Abstr.) **(Rus)**

ECONOMICS

Devices act would cause documentation burden. Hudson T. **Hospitals** 1989 Nov 20;63(22):76

METHODS

Can you avoid PRO sanctions? Documentation may be the key.... Edwards KS. **Ohio Med** 1990 Aug;86(8):578–9
Guidelines for completion of the college of radiographers' D.M.U. logbook. Aitken V, et al. **Radiogr Today** 1989 Apr; 55(623):17–20
An approach to the evaluation and documentation of adverse drug reaction. Goh CL. **Singapore Med J** 1989 Jun; 30(3):285–9 (13 ref.)
Quality assurance in cardiac surgery—history, preliminaries, practical experience. Kalmár P. **Thorac Cardiovasc Surg** 1990 Apr;38(2):108–14 **(Eng, Ger)**
[The Society of Rheumatologic Orthopedics documentation exemplified by elbow joint synovectomy] Hagena FW, et al. **Aktuel Probl Chir Orthop** 1989;37:107–20 **(Ger)**
[Progress in high-tech anesthesiology? (editorial; comment)] Schwilden H, et al. **Anasth Intensivther Notfallmed** 1990 Apr;25(2):119–20 Comment on: Anasth Intensivther Notfallmed 1990 Apr;25(2):121–8. **(Ger)**
[The ISRA/R information system in gynecologic endocrinology] Braendle W, et al. **Arch Gynecol Obstet** 1989;245(1–4):1129–31 (Eng. Abstr.) **(Ger)**
[Documentation of surgical data with dBASE-III] Hinney B, et al. **Arch Gynecol Obstet** 1989;245(1–4):1111–3 (Eng. Abstr.) **(Ger)**
[Simple and clinically useful documentation on the vulva using a personal computer] Riss PA, et al. **Arch Gynecol Obstet** 1989;245(1–4):1126–8 (Eng. Abstr.) **(Ger)**
[Evaluation of the system of the Study Group of Methodology and Documentation in Psychiatry based on recent literature (1983 to 1987)—a review] Baumann U, et al. **Fortschr Neurol Psychiatr** 1989 Sep;57(9):357–73 (175 ref.) (Eng. Abstr.) **(Ger)**
[Classification and documentation of vulvar changes: organization of a data bank by personal computer] Riss P, et al. **Geburtshilfe Frauenheilkd** 1989 Aug;49(8):728–32 (Eng. Abstr.) **(Ger)**
[Microcomputer-assisted data detection and control in obstetrics] Hintermüller P, et al. **Gynakol Rundsch** 1989;29 Suppl 2:333–5 **(Ger)**
[Fetal hypoxia and legal consequences. A contribution to defining responsibility for documentation and assessment of findings] Hager J. **Gynakologe** 1989 Dec;22(6):390–3 (41 ref.) **(Ger)**
[The patient education document] Laufs A. **Gynakologe** 1989 Dec;22(6):364–8 (44 ref.) **(Ger)**
[FANDOS—a new standardized computer-assisted documentation and evaluation of diseases of the facial nerve] Damenz W, et al. **HNO** 1990 Mar;38(3):116–8 (Eng. Abstr.) **(Ger)**
[Experiences with the electronic data processing system "Teamdata" in pathology] Hackl H. **Pathologe** 1990 Mar; 11(2):107–10 **(Ger)**
[Standardized patho-anatomic documentation of findings on forms from the German Society of Tumor Centers for malignancies of the mouth, jaw and face] Howaldt HP, et al. **Pathologe** 1989 Nov;10(6):364–8 **(Ger)**
[Diagnosis of lung function in a peripheral hospital, electronic data processing-assisted documentation and statistical evaluation] Walch H, et al. **Wien Med Wochenschr Suppl** 1989;104:suppl 33–4 **(Ger)**
[Computer-assisted documentation in upper gastrointestinal endoscopy: experiences with routine use at 3 clinics] Stöltzing H, et al. **Z Gastroenterol** 1989 Nov;27(11):667–75 (Eng. Abstr.) **(Ger)**
[Orthopedic basic documentation: requirements of diagnostic statistics and results in Göttingen university clinics] Graubner B. **Z Orthop** 1989 Jul–Aug;127(4):437–44 (Eng. Abstr.) **(Ger)**
[DocuMed—a personal computer program system for basic documentation and ICD statistics based on SNOMED] Härle A, et al. **Z Orthop** 1989 Jul–Aug;127(4):458–62 (Eng. Abstr.) **(Ger)**
[Documentation and quality control] Härle A. **Z Orthop** 1989 Jul–Aug;127(4):488–91 (Eng. Abstr.) **(Ger)**
[The informational value of L1 statistics required as of 1988 (Federal Law IV) exemplified by an orthopedic university clinic] Schepp HJ, et al. **Z Orthop** 1989 Jul–Aug; 127(4):448–50 (Eng. Abstr.) **(Ger)**
[The reliability and sources of error in basic clinical documentation—a critical report of experiences] Schmidt-Ohlemann M, et al. **Z Orthop** 1989 Jul–Aug; 127(4):445–7 (Eng. Abstr.) **(Ger)**
[Experiences after 2 years of the federal operating cost rate directive] Swoboda A. **Z Orthop** 1989 Jul–Aug; 127(4):451–4 (Eng. Abstr.) **(Ger)**
[Results of voluntary and mandatory statistics 1986/87—including a comparison with the preliminary study 1984/85. Scope of the topic: experiences after 2.5 years of the federal directive on operating cost rates of 1985] Winter T. **Z Orthop** 1989 Jul–Aug;127(4):455–7 (Eng. Abstr.) **(Ger)**
[Experience with computer-assisted documentation at the casualty ward of the surgery clinic in the Suhl district hospital] Recknagel F, et al. **Zentralbl Chir** 1989; 114(15):1019–24 (Eng. Abstr.) **(Ger)**

STANDARDS

Use of class ranking in deans' letters. Toewe CH 2d, et al. **Acad Med** 1989 Nov;64(11):690–1
A new approach to standardizing the dean's letter. Wagoner NE, et al. **Acad Med** 1989 Nov;64(11):688–9
Report of the SICOT Presidential Commission on Documentation and Evaluation. Société Internationale de Chirurgie Orthopédique et de Traumatologie. Müller ME, et al. **Int Orthop** 1990;14(2):221–9
Documentation principles and pitfalls. Feutz-Harter S. **J Nurs Adm** 1989 Dec;19(12):7–9
Checking citations [editorial] Lichter PR. **Ophthalmology** 1989 Aug;96(8):1131–2
[The value of the registration of the position of the testis in child health services for the prevention of unnecessary orchiopexies (letter)] Snick HK. **Ned Tijdschr Geneeskd** 1989 Dec 2;133(48):2410 **(Dut)**
[Standardization of documentation of whole body irradiation—the present situation in the German Society for Medical Physics] Schmidt W, et al. **Radiobiol Radiother (Berl)** 1990;31(2):161–3 **(Ger)**
[Standardization of the documentation utilized in conducting forensic medical expertise on material evidence] Plaksin VO, et al. **Sud Med Ekspert** 1990 Jan–Mar;33(1):49–50 **(Rus)**

TRENDS

A response to a response to a ... [letter; comment] Wilson KS, et al. **Minn Med** 1990 May;73(5):7–8 Comment on: Minn Med 1990 Apr;73(4):25–7.
[The status of basic psychiatric documentation in West Germany] John U, et al. **Nervenarzt** 1989 Aug;60(8):510–5 **(Ger)**

DODECANOIC ACIDS see **LAURIC ACIDS**

DOG DISEASES

An experimental model of chronic renal disease in dogs by infusion of microspheres into the renal arterial circulation. Dzanis DA, et al. **Am J Vet Res** 1990 Apr;51(4):682–7
Identification of gonadal steroid receptors in meningiomas from dogs and cats. Speciale J, et al. **Am J Vet Res** 1990 May;51(5):833–5
Focal lymphocytic non-suppurative myocarditis and 3 degrees heart block in a 2-year-old dog. Atwell RB, et al. **Aust Vet J** 1990 Jul;67(7):265
Neospora caninum infection in dogs. Munday BL, et al. **Aust Vet J** 1990 Feb;67(2):76–7
Subcorneal pustular dermatosis in dogs and in human beings: comparative aspects. Kalaher KM, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1023–8
von Willebrand heterotopic osteochondrofibrosis in Doberman pinschers: five cases (1980–1987). Dueland RT, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):383–8
Intestinal malabsorption and cryptosporidiosis in an adult dog. Greene CE, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):365–7
Systemic autoimmune disease and concurrent nematode infection in a dog. McVey DS, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):957–60
Osteogenic sarcoma and myasthenia gravis in a dog. Moore AS, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):226–7
Disseminated geotrichosis in two dogs. Rhyan JC, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):358–60
Calcinosis circumscripta of the metacarpal pad in a dog. Stampley A, et al. **J Am Vet Med Assoc** 1990 Jan 1; 196(1):113–4
Coliform septicemia and pulmonary disease associated with canine parvoviral enteritis: 88 cases (1987–1988). Turk J, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):771–3
Ehrlichiosis—a disease of animals and humans. McDade JE. **J Infect Dis** 1990 Apr;161(4):609–17 (50 ref.)
Gastroduodenal ulceration in dogs. Retrospective study of 43 cases and literature review. Stanton ME, et al. **J Vet Intern Med** 1989 Oct–Dec;3(4):238–44 (41 ref.)
Life and death [editorial] Sessions DG. **Mo Med** 1989 Oct; 86(10):675, 678
Lyme disease in small animals. Lissman BA. **N J Med** 1990 Jul;87(7):573–4 (7 ref.)
Cerebral preamyloid deposits and congophilic angiopathy in aged dogs. Giaccone G, et al. **Neurosci Lett** 1990 Jul 3; 114(2):178–83
Gastrointestinal diseases. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):177–254
Disorders of the neuromuscular junction and muscle [published erratum appears in Semin Vet Med Surg (Small Anim) 1989 Nov;4(4):322] **Semin Vet Med Surg (Small Anim)** 1989 May;4(2):107–76
Parasitic myositis of dogs and cats. Craig TM. **Semin Vet Med Surg (Small Anim)** 1989 May;4(2):161–7 (51 ref.)
Constipation: pathophysiology, diagnostic approach, and treatment. Dimski DS. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):247–54 (35 ref.)
Protein-losing enteropathy. Fossum TW. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):219–25 (63 ref.)
Megaesophagus in the dog and cat. Guilford WG. **Semin Vet Med Surg (Small Anim)** 1990 Feb;5(1):37–45 (66 ref.)
Pancreatic APUDomas. Johnson SE. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):202–11 (55 ref.)
Canine dysautonomia. Wise LA, et al. **Semin Vet Med Surg (Small Anim)** 1990 Feb;5(1):72–4 (13 ref.)
Short bowel syndrome in dogs and cats. Yanoff SR, et al. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):226–31 (29 ref.)
Small animal ophthalmology. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):565–867
Glaucoma in the dog and cat. Brooks DE. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):775–97 (64 ref.)
Lens luxation in the dog and cat. Curtis R. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):755–73 (46 ref.)
Uveitis in the dog and cat. Håkanson N, et al. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):715–35 (47 ref.)
Retinal degeneration in the dog and cat. Millichamp NJ. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):799–835 (160 ref.)
Canine mast cell tumors. O'Keefe DA. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):1105–15 (36 ref.)
Ocular manifestations of systemic disease in the dog and cat. Recent developments. Swanson JF. **Vet Clin North Am Small Anim Pract** 1990 May;

20(3):849–67 (73 ref.)
Mite infestation [letter] [see comments] Brown CJ. Vet Rec 1989 Dec 2;125(23):584 Comment in: Vet Rec 1989 Dec 16;125(25):629. Comment in: Vet Rec 1989 Dec 23–30;125(26–27):656.
Acquired pyloric stenosis [letter; comment] Cox R. Vet Rec 1989 Oct 21;125(17):445–6 Comment on: Vet Rec 1989 Sep 23;125(13):356–7.
Neospora caninum encephalomyelitis in a British dog. Dubey JP, et al. Vet Rec 1990 Feb 24;126(8):193–4
Atypical nodular leishmaniasis in two dogs. Ferrer L, et al. Vet Rec 1990 Jan 27;126(4):90
Orthopaedic problems in old dogs. Vaughan LC. Vet Rec 1990 Apr 21;126(16):379–88 (28 ref.)
[Clinical case. Epistaxis in a dog] Kraft W. Tierarztl Prax 1990 Feb;18(1):6, 91 (Ger)
[Clinical case. A mixed breed female dog about 6 months old] Kraft W. Tierarztl Prax 1990 Jun;18(3):235, 309–10 (Ger)

BLOOD

Enhanced platelet reactivity in heartworm–infected dogs. Boudreaux MK, et al. Am J Vet Res 1989 Sep;50(9):1544–7
Whole blood platelet aggregation in uremic dogs. Forsythe LT, et al. Am J Vet Res 1989 Oct;50(10):1754–7
Role of parathyroid hormone in the anemia of chronic terminal renal dysfunction in dogs. Petrites–Murphy MB, et al. Am J Vet Res 1989 Nov;50(11):1898–905
Effect of incorporation of serum from dogs with renal impairment on canine erythroid bone marrow cultures. Petrites–Murphy MB, et al. Am J Vet Res 1989 Sep; 50(9):1537–43
Whole blood platelet aggregation in dogs with liver disease. Willis SE, et al. Am J Vet Res 1989 Nov;50(11):1893–7
Observations on blood coagulation after snakebite in dogs and cats. Holloway SA, et al. Aust Vet J 1989 Nov; 66(11):364–6
Serum protein electrophoresis in canine parvovirus enteritis. van den Broek AH. Br Vet J 1990 May–Jun;146(3):255–9
Neutrophil myeloperoxidase deficiency associated with canine hepatozoonosis. Ibrahim ND, et al. Int J Parasitol 1989 Dec;19(8):915–8
Plasma von Willebrand factor concentration and thyroid function in dogs. Avgeris S, et al. J Am Vet Med Assoc 1990 Mar 15;196(6):921–4
Delayed growth in two German shepherd dog littermates with normal serum concentrations of growth hormone, thyroxine, and cortisol. Randolph JF, et al. J Am Vet Med Assoc 1990 Jan 1;196(1):77–83
Juvenile cellulitis in dogs: 15 cases (1979–1988). White SD, et al. J Am Vet Med Assoc 1989 Dec 1;195(11):1609–11
Serum hemolytic activity in dogs infected with Babesia gibsoni. Onishi T, et al. J Parasitol 1990 Aug;76(4):564–7
Peripheral plasma levels of LH, testosterone, and estradiol–17 beta before and after orchiopexy in unilaterally cryptorchid dogs. Kawakami E, et al. Nippon Juigaku Zasshi 1990 Feb; 52(1):179–81
Clinical studies on canine dirofilarial hemoglobinuria: measured and calculated serum osmolalities and osmolar gap. Kitagawa H, et al. Nippon Juigaku Zasshi 1989 Aug; 51(4):703–10
Mechanisms of platelet destruction in immune–mediated thrombocytopenia: in vitro studies with canine platelets exposed to heterologous and isologous antiplatelet antibodies. Shebani OI, et al. Res Vet Sci 1989 Nov; 47(3):288–93
Absent platelet aggregation with normal fibrinogen binding in basset hound hereditary thrombopathy. Patterson WR, et al. Thromb Haemost 1989 Nov 24;62(3):1011–5
von Willebrand factor is present in the vascular endothelium from normal dogs and from Doberman pinscher dogs with a plasma von Willebrand factor deficiency. Meyers KM, et al. Thromb Res 1990 Jan 1;57(1):109–16
Effect of exercise, DDAVP, and epinephrine on the factor VIII:C/von Willebrand factor complex in normal dogs and von Willebrand factor deficient Doberman pinscher dogs. Meyers KM, et al. Thromb Res 1990 Jan 1;57(1):97–108
Laboratory abnormalities in patients with cancer. Kruth SA, et al. Vet Clin North Am Small Anim Pract 1990 Jul; 20(4):897–917 (68 ref.)
Hypoglycaemia in experimental canine trichinellosis. Reina D, et al. Vet Parasitol 1989 Oct;33(3–4):289–96
Complications of small intestinal biopsy in hypoalbuminemic dogs. Harvey HJ. Vet Surg 1990 Jul–Aug;19(4):289–92
Effects of acute hyperventilation on serum potassium in the dog. Muir WW 3d, et al. Vet Surg 1990 Jan–Feb;19(1):83–7
Flow cytometric enumeration of reticulocyte in the peripheral blood from canine infected with Babesia gibsoni. Uemura T, et al. Zentralbl Veterinarmed [B] 1990 Aug; 37(6):468–72

CEREBROSPINAL FLUID

Analysis of cerebrospinal fluid from the cerebellomedullary and lumbar cisterns of dogs with focal neurologic disease: 145 cases (1985–1987). Thomson CE, et al. J Am Vet Med Assoc 1990 Jun 1;196(11):1841–4

CHEMICALLY INDUCED

Diagnostic importance of vitamin K1 and its epoxide measured in serum of dogs exposed to an anticoagulant rodenticide. Mount ME, et al. Am J Vet Res 1989 Oct; 50(10):1704–9
Hygromycin B and deaf dogs. Watson AD, et al. Aust Vet J 1989 Sep;66(9):302–3
Cutaneous drug reactions in small animals. Nesbitt GH. Clin Dermatol 1986 Jan–Mar;4(1):190–3
Questions about ECG interpretations [letter] J Am Vet Med Assoc 1990 Jul 15;197(2):169–70
Idiosyncratic reactions to sulfonamides in dogs [see comments] Cribb AE. J Am Vet Med Assoc 1989 Dec 1; 195(11):1612–4 (23 ref.) Comment in: J Am Vet Med Assoc 1990 Feb 15;196(4):521–2. Comment in: J Am Vet Med Assoc 1990 Mar 1;19695):681–2.
Sulfonamides and blood dyscrasias [letter; comment] Dodds WJ. J Am Vet Med Assoc 1990 Mar 1;196(5):681–2 Comment on: J Am Vet Med Assoc 1989 Dec 1;195(11):1612–4.
Salmon calcitonin as adjunct treatment for vitamin D toxicosis in a dog. Dougherty SA, et al. J Am Vet Med Assoc 1990 Apr 15;196(8):1269–72
Emergency treatments for police dogs used for illicit drug detection. Dumonceaux GA, et al. J Am Vet Med Assoc 1990 Jul 15;197(2):185–7 (14 ref.)
Hypercalcemia secondary to cholecalciferol rodenticide toxicosis in two dogs. Fooshee SK, et al. J Am Vet Med Assoc 1990 Apr 15;196(8):1265–8
Ivermectin toxicosis in a dog. Hopkins KD, et al. J Am Vet Med Assoc 1990 Jul 1;197(1):93–4
Acute selenium toxicosis in a dog. Janke BH. J Am Vet Med Assoc 1989 Oct 15;195(8):1114–5
ECG of the month. Heart rhythm disturbance after IV administration of anticholinergic drugs. Miller MW, et al. J Am Vet Med Assoc 1990 Mar 1;196(5):728–9
Acute and short–term toxicoses associated with the administration of doxorubicin to dogs with malignant tumors. Ogilvie GK, et al. J Am Vet Med Assoc 1989 Dec 1;195(11):1584–7
Effects of tetracyclines on the kidney in cattle and dogs. Riond JL, et al. J Am Vet Med Assoc 1989 Oct 1; 195(7):995–7 (25 ref.)
Iatrogenic adrenocortical insufficiency in dogs. Romatowski J. J Am Vet Med Assoc 1990 Apr 1;196(7):1144–6 (21 ref.)
Drug–associated aplastic anemia in dogs: eight cases (1984–1988). Weiss DJ, et al. J Am Vet Med Assoc 1990 Feb 1;196(3):472–5
Sulfonamides and keratoconjunctivitis sicca [letter; comment] Wilkie DA, et al. J Am Vet Med Assoc 1990 Feb 15; 196(4):521–2 Comment on: J Am Vet Med Assoc 1989 Dec 1;195(11):1612–4.
Oxalate nephropathy in a Tibetan spaniel litter. A probable case of primary hyperoxaluria. Jansen JH, et al. J Comp Pathol 1990 Jul;103(1):79–84
A surprising case of endrin poisoning in dogs. Quick MP, et al. J Forensic Sci Soc 1989 Sep–Oct;29(5):331–8
Excess of seminomas observed in Vietnam service U.S. military working dogs. Hayes HM, et al. J Natl Cancer Inst 1990 Jun 20;82(12):1042–6
Apomorphine–induced emesis in the dog—routes of administration, efficacy and synergism by naloxone. Scherkl R, et al. J Vet Pharmacol Ther 1990 Jun;13(2):154–8
Immune mediated hemolytic anemia associated with antilymphocyte globulin therapy in dogs. DeLong D, et al. Lab Anim Sci 1990 Jul;40(4):415–8
Diethyltoluamide (DEET) insect repellent toxicosis. Dorman DC. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):387–91 (19 ref.)
Toxicology of selected pesticides, drugs, and chemicals. Organophosphorus and carbamate insecticides. Fikes JD. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):353–67 (70 ref.)
Clinical toxicology of cardiovascular drugs. Hamlin RL. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):469–81 (47 ref.)
Tricyclic antidepressant toxicosis. Johnson LR. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):393–403 (24 ref.)
Toxicology of selected pesticides, drugs, and chemicals. Boric acid. Kiesche–Nesselrodt A, et al. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):369–73 (12 ref.)
Toxicology of selected pesticides, drugs, and chemicals. Illicit and abused drugs. Kisseberth WC, et al. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):405–18 (39 ref.)
Toxicology of nonsteroidal antiinflammatory drugs. Kore AM. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):419–30 (32 ref.)
Toxicology of household cleaning products and disinfectants. Kore AM, et al. Vet Clin North Am Small Anim Pract 1990 Mar;20(2):525–37 (22 ref.)
Ivermectin and piperazine toxicoses in dogs and cats. Lovell RA. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):453–68 (108 ref.)
Toxicoses from over–the–counter human drugs. Papich MG. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):431–51 (27 ref.)
Toxicology of selected pesticides, drugs, and chemicals. Zinc. Robinette CL. Vet Clin North Am Small Anim Pract 1990 Mar;20(2):539–44 (13 ref.)
Toxicology of selected pesticides, drugs, and chemicals. Short–chain alcohols. Valentine WM. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):515–23 (28 ref.)
Toxicology of selected pesticides, drugs, and chemicals. Pyrethrin and pyrethroid insecticides. Valentine WM. Vet Clin North Am Small Anim Pract 1990 Mar; 20(2):375–82 (18 ref.)
Lack of effect of fluoride on reproductive performance and development in Shetland sheepdogs [corrected; erratum to be published] Schellenberg D, et al. Vet Hum Toxicol 1990 Aug;32(4):309–14
A case of chlordane poisoning in two dogs and a cat. Staley E, et al. Vet Hum Toxicol 1990 Feb;32(1):57
Poisoning at Rutland Water [letter] Corkill N, et al. Vet Rec 1989 Sep 23;125(13):356
Algal poisoning [letter] Edney A. Vet Rec 1990 Mar 24; 126(12):297–8
Clinical haemobartonellosis associated with use of corticosteroid [letter] Handcock WJ. Vet Rec 1989 Dec 2;125(23):585
Reaction to propofol [letter; comment] Muir IF. Vet Rec 1989 Aug 19;125(8):213 Comment on: Vet Rec 1989 Jul 29;125(5):116.
Ivermectin use in collie dogs [letter] Ryan WG, et al. Vet Rec 1989 Oct 14;125(16):425
Ibuprofen poisoning in dogs [letter] [see comments] Tempowski JH. Vet Rec 1989 Nov 11;125(20):513 Comment in: Vet Rec 1989 Nov 25;125(22):560.
Pulmonary complications in cases of suspected warfarin poisoning in the dog. Walker RG. Vet Rec 1968 Aug 10; 83(6):148–50
An in vitro investigation of predisposition to sulphonamide idiosyncratic toxicity in dogs. Cribb AE, et al. Vet Res Commun 1990;14(3):241–52

CLASSIFICATION

Lymphomas in dogs. A morphologic, immunologic, and clinical study. Greenlee PG, et al. Cancer 1990 Aug 1; 66(3):480–90

CONGENITAL

Transplacental Neospora caninum infection in dogs. Dubey JP, et al. Am J Vet Res 1989 Sep;50(9):1578–9
Fibrosis and contracture of the semitendinosus muscle in a dog. Clarke RE. Aust Vet J 1989 Aug;66(8):259–61
Portosystemic shunts. Semin Vet Med Surg (Small Anim) 1990 May;5(2):75–141
Canine myotonia. Kortz G. Semin Vet Med Surg (Small Anim) 1989 May;4(2):141–5 (33 ref.)

DIAGNOSIS

Assessment of a serological test for the detection of Echinococcus granulosus infection in dogs in Kenya. Jenkins DJ, et al. Acta Trop (Basel) 1990 May;47(4):245–8
Suspected ciliary dysfunction in Chinese Shar Pei pups with pneumonia. Dhein CR, et al. Am J Vet Res 1990 Mar; 51(3):439–46
Evaluation of two commercial test kits for detection of occult blood in feces of dogs. Gilson SD, et al. Am J Vet Res 1990 Sep;51(9):1385–7
Enzyme–linked immunosorbent assay for measurement of allergen–specific IgE antibodies in canine serum. Kleinbeck ML, et al. Am J Vet Res 1989 Nov;50(11):1831–9
Electroencephalographic and histopathologic correlations in eight dogs with intracranial mass lesions. Steiss JE, et al. Am J Vet Res 1990 Aug;51(8):1286–91
Serological screening of farm dogs for Echinococcus granulosus infection in an endemic region. Gasser RB, et al. Aust Vet J 1990 Apr;67(4):145–7
Immunohistochemical detection of intermediate filament proteins in formalin fixed normal and neoplastic canine tissues. Desnoyers MM, et al. Can J Vet Res 1990 Jun; 54(3):360–5
Comparison of enzyme immunodiagnosis with immunofluorescence for rapid diagnosis of rabies in dogs. Jayakumar R, et al. Int J Med Microbiol 1989 Oct; 271(4):501–3
What is your diagnosis? Retrobulbar mass of the left eye, measuring 1.5 cm deep by 1.5 cm long, compressing the caudal aspect of the globe. Abrams K, et al. J Am Vet Med Assoc 1990 Mar 15;196(6):951–2
Testing for Borrelia burgdorferi [letter] Burgess EC, et al. J Am Vet Med Assoc 1989 Oct 1;195(7):844, 846
Evaluation of a colonic lavage solution to prepare the colon of the dog for colonoscopy. Burrows CF. J Am Vet Med Assoc 1989 Dec 15;195(12):1719–21
Borrelia burgdorferi infection: should one treat before confirming clinical diagnosis? [letter] Feaga WP. J Am Vet Med Assoc 1990 Jul 1;197(1):11–2
Cytologic analysis of tracheal wash specimens and bronchoalveolar lavage fluid in the diagnosis of mycotic infections in dogs. Hawkins EC, et al. J Am Vet Med Assoc 1990 Jul 1;197(1):79–83
Clinical, echocardiographic, and radiographic findings of peritoneopericardial diaphragmatic hernia in two dogs and a cat. Hay WH, et al. J Am Vet Med Assoc 1989 Nov 1;195(9):1245–8
Diagnosis and treatment of Neospora caninum infection in a dog. Hay WH, et al. J Am Vet Med Assoc 1990 Jul 1; 197(1):87–9
High serum trypsin–like immunoreactivity secondary to pancreatitis in a dog with exocrine pancreatic insufficiency. Keller ET. J Am Vet Med Assoc 1990 Feb 15;196(4):623–6

What is your diagnosis? Thick bladder wall and an irregular mixed echoic density consistent with an infiltrative bladder mass. Love NE, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1409–10

Use of ultrasonographic and nuclear imaging to diagnose scrotal hernia in a dog. Mitchener KL, et al. **J Am Vet Med Assoc** 1990 Jun 1;196(11):1834–5

ECG of the month. Quagliariello RM, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):60–1

Comparison of an orally administered gastrointestinal lavage solution with traditional enema administration as preparation for colonoscopy in dogs. Richter KP, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1727–31

ECG of the month. Urinary bladder rupture in a dog causing hyperkalemia. Syvrud KP. **J Am Vet Med Assoc** 1989 Oct 1;195(7):932–3

Difficult dermatologic diagnosis. White SD. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1223

Application of a direct agglutination test for detection of specific anti-Leishmania antibodies in the canine reservoir. el Harith A, et al. **J Clin Microbiol** 1989 Oct;27(10):2252–7

Comparison of indirect immunofluorescent-antibody assay, enzyme-linked immunosorbent assay, and Western immunoblot for the diagnosis of Lyme disease in dogs. Lindenmayer J, et al. **J Clin Microbiol** 1990 Jan;28(1):92–6

The accuracy of cytology in diagnosis and DNA analysis of canine mammary tumours. Hellmén E, et al. **J Comp Pathol** 1989 Nov;101(4):443–50

Diffuse cerebral and leptomeningeal astrocytoma in dogs: MR features. Kraft SL, et al. **J Comput Assist Tomogr** 1990 Jul–Aug;14(4):555–60

Ultrasonographic appearance of primary and metastatic canine hepatic tumors. A review of 48 cases. Whiteley MB, et al. **J Ultrasound Med** 1989 Nov;8(11):621–30

An update on the serodiagnosis of canine Lyme borreliosis. Greene RT. **J Vet Intern Med** 1990 May–Jun;4(3):167–71 (51 ref.)

Echocardiography and surgery in a dog with left atrial rupture and hemopericardium. Sadanaga KK, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):216–21

Investigation into factors influencing performance of the canine antiglobulin test. Jones DR, et al. **Res Vet Sci** 1990 Jan;48(1):53–8

Clinical management of the cancer patient. Taking a biopsy. Carter RF, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul;20(4):939–68 (5 ref.)

Diagnostic parasitology. Foreyt WJ. **Vet Clin North Am Small Anim Pract** 1989 Sep; 19(5):979–1000 (76 ref.)

Clinical approach to tumors of the skin and subcutaneous tissues. Moriello KA, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):1163–90 (23 ref.)

Cytology of the respiratory tract. Rakich PM, et al. **Vet Clin North Am Small Anim Pract** 1989 Sep;19(5):823–50 (59 ref.)

The cytologic diagnosis of neoplasia. Wellman ML. **Vet Clin North Am Small Anim Pract** 1990 Jul;20(4):919–38 (37 ref.)

Detection of Taenia hydatigena copro-antigens by ELISA in dogs. Deplazes P, et al. **Vet Parasitol** 1990 May; 36(1–2):91–103

Evaluation of enzyme-linked immunosorbent assays based on monoclonal antibodies for the serology and antigen detection in canine parvovirus infections. Rimmelzwaan GF, et al. **Vet Q** 1990 Jan;12(1):14–20

Urolith analysis [letter; comment] **Vet Rec** 1989 Oct 7; 125(15):405 Comment on: Vet Rec 1989 Aug 26;125(9):245.

Skin diseases of old dogs and cats. Halliwell RE. **Vet Rec** 1990 Apr 21;126(16):389–94 (15 ref.)

Magic mushroom poisoning in a dog [letter] Kirwan AP. **Vet Rec** 1990 Feb 10;126(6):149

Disorders of the lower urinary tract in old dogs. Moreau PM. **Vet Rec** 1990 Apr 28;126(17):415–25 (34 ref.)

Diagnostic centres [letter] Prole JH. **Vet Rec** 1990 Jun 30; 126(26):650

Urolith analysis [letter] [see comments] Singleton P. **Vet Rec** 1989 Aug 26;125(9):245 Comment in: Vet Rec 1989 Sep 9;125(11):309. Comment in: Vet Rec 1989 Oct 7;125(15):405.

[Veterinary ultrasonics: more than music for the future] Garretsen JW. **Tijdschr Diergeneeskd** 1989 Nov 1; 114(21):1112–6 **(Dut)**

[Cervical disk hernia in dogs: a review] Janssens LA. **Tijdschr Diergeneeskd** 1990 Mar 1;115(5):199–206 (78 ref.) (Eng. Abstr.) **(Dut)**

[Cryptorchism in dogs] Van Leeuwen MP, et al. **Tijdschr Diergeneeskd** 1989 Oct 1;114(19):999–1005 (31 ref.) (Eng. Abstr.) **(Dut)**

[Comparison of the diagnostic methods for studying parvovirus and rotavirus infections of dogs] Kölbl S, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jul 1; 103(7):232–6 (Eng. Abstr.) **(Ger)**

[The diagnosis and therapy of heart arrhythmias in the dog] Grabner A. **Tierarztl Prax** 1989;17(3):303–11 (4 ref.) (Eng. Abstr.) **(Ger)**

[Two cases of colitis cystica profunda in dogs] Kraft W, et al. **Tierarztl Prax** 1989;17(3):299–302 (Eng. Abstr.) **(Ger)**

[Abdominal sonography in small animals. II. Examination technics] Lohss E. **Tierarztl Prax** 1989;17(3):313–8 (Eng. Abstr.) **(Ger)**

[Esophagoscopy and gastroscopy in dogs and cats. Technics and indications] Münster M, et al. **Tierarztl Prax** 1990 Feb; 18(1):53–60 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Evaluation of a commercial staphylococcal bacterin for management of idiopathic recurrent superficial pyoderma in dogs. DeBoer DJ, et al. **Am J Vet Res** 1990 Apr; 51(4):636–9

Effects of lipoxygenase inhibitors in a model of lens-induced uveitis in dogs. Dziezyc J, et al. **Am J Vet Res** 1989 Nov; 50(11):1877–82

Doxorubicin is a widely used chemotherapeutic agent with activity reported in many malignancies, including soft tissue sarcomas [letter] Greenberg MH, et al. **Cancer Invest** 1989; 7(5):523

Corticosteroid therapy for bacterial meningitis in dogs. Meric SM. **Cornell Vet** 1990 Jan;80(1):3–6 (10 ref.)

Reduction in body weight and cholesterol in spontaneously obese dogs by dehydroepiandrosterone. Kurzman ID, et al. **Int J Obes** 1990;14(2):95–104

Comments on use of 4-methylpyrazole [letter; comment] **J Am Vet Med Assoc** 1989 Nov 1;195(9):1190–2 Comment on: J Am Vet Med Assoc 1989 Jul 1;195(1):73–6.

Plasma cortisol response to ketoconazole administration in dogs with hyperadrenocorticism. Feldman EC, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):71–8

Acute nonlymphocytic leukemia in a dog. Hamlin RH, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):110–2

Ketoconazole therapy in a dog with systemic cryptococcosis. Mason GD, et al. **J Am Vet Med Assoc** 1989 Oct 1; 195(7):954–6

Efficacies of erythromycin and chloramphenicol in extinguishing fecal shedding of Campylobacter jejuni in dogs. Monfort JD, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1069–72

Phase II evaluation of doxorubicin for treatment of various canine neoplasms. Ogilvie GK, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1580–3

Evaluation of cisplatin-induced emesis in dogs with malignant neoplasia: 115 cases (1984–1987). Ogilvie GK, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1399–403

Naltrexone for treatment of acral lick dermatitis in dogs. White SD. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1073–6

A retrospective study of 40 cases of canine pyometra-metritis treated with prostaglandin F-2 alpha and broad-spectrum antibacterial drugs. Gilbert RO, et al. **J Reprod Fertil Suppl** 1989;39:225–9

Narcolepsy in a long-haired dachshund. Van Heerden J, et al. **J S Afr Vet Assoc** 1989 Sep;60(3):151–3

Single-drug chemotherapy of canine transmissible venereal tumor with cyclophosphamide, methotrexate, or vincristine. Amber EI, et al. **J Vet Intern Med** 1990 May–Jun;4(3):144–7

Milrinone. A clinical trial in 29 dogs with moderate to severe congestive heart failure. Keister DM, et al. **J Vet Intern Med** 1990 Mar–Apr;4(2):79–86

Medical management of recurrent seizures in dogs and cats. Lane SB, et al. **J Vet Intern Med** 1990 Jan–Feb;4(1):26–39 (189 ref.)

Cisplatin (cisdiamminedichloroplatinum) for treatment of transitional cell carcinoma of the urinary bladder or urethra. A retrospective study of 15 dogs. Moore AS, et al. **J Vet Intern Med** 1990 May–Jun;4(3):148–52

Medical management of recurrent seizures in dogs and cats [letter] Sisson A. **J Vet Intern Med** 1990 May–Jun;4(3):181

Treatment of relapsed canine lymphoma with doxorubicin and dacarbazine. Van Vechten M, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):187–91

Prevention of adverse reactions following milbemycin D administration to microfilaremic dogs infected with Dirofilaria immitis. Sasaki Y, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):711–5

Clinical study on the effect of biotin on skin conditions in dogs. Frigg M, et al. **Schweiz Arch Tierheilkd** 1989; 131(10):621–5

Clinical pharmacology of antiemetic and antiulcer drugs. Forrester SD, et al. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):194–201 (43 ref.)

Management of complications of cancer chemotherapy. Couto CG. **Vet Clin North Am Small Anim Pract** 1990 Jul;20(4):1037–53 (57 ref.)

Adjuvant chemotherapy for sarcomas and carcinomas. Hammer AS, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):1015–36 (59 ref.)

Clinical management of the cancer patient. Principles and applications of chemotherapy. Helfand SC. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):987–1013 (61 ref.)

A new perspective on canine keratoconjunctivitis sicca. Treatment with ophthalmic cyclosporine. Kaswan RL, et al. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):583–613 (76 ref.)

Control of ocular inflammation. Wilkie DA. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):693–713 (52 ref.)

Efficacy of nemadectin, a new broad-spectrum endectocide, against natural infections of canine gastrointestinal helminths. Doscher ME, et al. **Vet Parasitol** 1989 Dec; 34(3):255–9

Resolution of lymphosarcoma associated blindness in a dog following chemotherapy [see comments] Butterworth SJ. **Vet Rec** 1989 Sep 9;125(11):305 Comment in: Vet Rec 1990 Feb 17;126(7):174.

Field trials of nitroscanate and mebendazole in dogs [letter] Genchi C, et al. **Vet Rec** 1990 Jul 7;127(1):24

Field trials of the anthelmintic efficacy of nitroscanate and mebendazole in dogs [see comments] Genchi C, et al. **Vet Rec** 1990 Jan 27;126(4):77–80 Comment in: Vet Rec 1990 Apr 7;126(14):341.

Chemotherapy for lymphosarcoma [letter; comment] Hatch AS. **Vet Rec** 1990 Feb 17;126(7):174 Comment on: Vet Rec 1989 Sep 9;125(11):305.

Use of ear drops [letter] Pott JM. **Vet Rec** 1990 Jul 21; 127(3):72

Treatment of pyometra in the bitch [letter] Rimer D. **Vet Rec** 1990 Feb 17;126(7):175

Canine lymphosarcoma [letter] Stewart J. **Vet Rec** 1989 Aug 19;125(8):214

Field trials of nitroscanate and mebendazole in dogs [letter; comment] Vanparijs O, et al. **Vet Rec** 1990 Apr 7; 126(14):341 Comment on: Vet Rec 1990 Jan 27;126(4):77–80.

Phenylpropanolamine: an alpha-adrenergic agent for the management of urinary incontinence in the bitch associated with urethral sphincter mechanism incompetence. White RA, et al. **Vet Rec** 1989 Nov 4;125(19):478–80

[New, Arthroluxyl? (letter)] Poll PH. **Tijdschr Diergeneeskd** 1989 Oct 15;114(20):1066–7 **(Dut)**

[A simple treatment for demodicosis (letter)] van der Kreek FW. **Tijdschr Diergeneeskd** 1989 Sep 1;114(17):910 **(Dut)**

[Demodicosis: a simple treatment? (letter)] Willemse A. **Tijdschr Diergeneeskd** 1989 Sep 1;114(17):910–1 **(Dut)**

[Transplanted infections with Toxocara canis as a model for the effectiveness testing of anthelmintics] Stoye M, et al. **Zentralbl Veterinarmed [B]** 1990 Mar;37(2):81–90 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Development of wheat-sensitive enteropathy in Irish Setters: biochemical changes. Hall EJ, et al. **Am J Vet Res** 1990 Jul;51(7):983–9

Characterization of the defective beta-glucuronidase activity in canine mucopolysaccharidosis type VII. Schuchman EH, et al. **Enzyme** 1989;42(3):174–80

Glucose-6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase activities in normal canine mammary gland and in mammary tumours and their correlation with oestrogen receptors. Nerurkar VR, et al. **J Comp Pathol** 1990 Feb;102(2):191–5

Increased serum alanine aminotransferase activity associated with muscle necrosis in the dog. Valentine BA, et al. **J Vet Intern Med** 1990 May–Jun;4(3):140–3

The diagnostic significance of increased urinary and serum amylase activity in bitches with pyometra. de Schepper J, et al. **Zentralbl Veterinarmed [A]** 1989 Jul;36(6):431–7

EPIDEMIOLOGY

Canine visceral leishmaniasis in northeast Brazil: assessment of serodiagnostic methods. Evans TG, et al. **Am J Trop Med Hyg** 1990 Feb;42(2):118–23

Epidemiological studies on toxocariasis and visceral larva migrans in a zone of western Spain. Conde Garcia L, et al. **Ann Trop Med Parasitol** 1989 Dec;83(6):615–20

Epidemiology of echinococcosis/hydatidosis in Anambra State, Nigeria. Onah DN, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):387–93

Canine filariasis in Salamanca (northwest Spain). Perez-Sanchez R, et al. **Ann Trop Med Parasitol** 1989 Apr; 83(2):143–50

A serious outbreak of canine distemper among sled-dogs in northern Greenland. Bohm J, et al. **Arctic Med Res** 1989 Oct;48(4):195–203

A review of cases submitted to Murdoch University for immunodiagnostic testing: 1978–1989. Penhale WJ, et al. **Aust Vet J** 1990 Apr;67(4):148–9

Distribution of leptospirosis among stray dogs in the Okinawa Islands, Japan: comparison of the microcapsule and microscopic agglutination tests. Arimitsu Y, et al. **Br Vet J** 1989 Sep–Oct;145(5):473–7

A time series analysis of the rabies control programme in Chile. Ernst SN, et al. **Epidemiol Infect** 1989 Dec; 103(3):651–7

Epidemiologic factors, clinical findings, and vaccination status of rabies in cats and dogs in the United States in 1988. National Study Group on Rabies. Eng TR, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):201–9

Prevalence and geographic distribution of Fanconi syndrome in Basenjis in the United States. Noonan CH, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):345–9

Partial rupture of the cranial cruciate ligament of the stifle in dogs: 25 cases (1982–1988). Scavelli TD, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1135–8

Regional distribution of ten common skin diseases in dogs. Sischo WM, et al. **J Am Vet Med Assoc** 1989 Sep 15; 195(6):752–6

Epidemiologic study of insecticide exposures, obesity, and risk of bladder cancer in household dogs. Glickman LT, et al. **J Toxicol Environ Health** 1989;28(4):407–14

Seroprevalence of Rickettsia typhi and Rickettsia conorii infection among rodents and dogs in Egypt. Soliman AK, et al. **J Trop Med Hyg** 1989 Oct;92(5):345–9

Spotted fever group rickettsia in dogs in Japan. Morita C,

et al. **Jpn J Med Sci Biol** 1989 Aug;42(4):143–7

Epidemiological study on periodontal diseases and some other dental disorders in dogs. Isogai H, et al. **Nippon Juigaku Zasshi** 1989 Dec;51(6):1151–62

Detection of Mokola virus neutralising antibodies in Nigerian dogs. Aghomo HO, et al. **Res Vet Sci** 1990 Mar;48(2):264

Natural Trypanosoma cruzi infection in dogs of endemic areas of the Argentine Republic. Lauricella MA, et al. **Rev Inst Med Trop Sao Paulo** 1989 Mar–Apr;31(2):63–70

Patterns of infection with Giardia in dogs in London. Sykes TJ, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr; 83(2):239–40

Leishmania infecting man and wild animals in Saudi Arabia. 5. Diversity of parasites causing visceral leishmaniasis in man and dogs in the south–west. al–Zahrani MA, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):503–9

Non–specific pruritus in dogs [letter] [see comments] Doody GM. **Vet Rec** 1990 Mar 17;126(11):273–4 Comment in: Vet Rec 1990 Apr 7;126(14):340.

Lyme disease in the dog. May C, et al. **Vet Rec** 1990 Mar 24;126(12):293

Aujeszky's disease in foxhounds [letter; comment] Murdoch RS. **Vet Rec** 1990 Mar 3;126(9):226 Comment on: Vet Rec 1990 Jan 6;126(1):13–5.

Seroepidemiological survey of rabies virus antibodies in non vaccinated dogs in Nsukka environs, Nigeria. Wosu LO, et al. **Zentralbl Veterinarmed [B]** 1990 Feb;37(1):47–52

[Leptospira antibody detection in dog serum in the years 1985 to 1988] Brem S, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jan 1;103(1):6–8 (Eng. Abstr.) (Ger)

[Toxoplasmosis in dogs in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989;3:19–22 (Eng. Abstr.) (Ger)

[Spectrum of species and infection frequency of endoparasites in bitches and their puppies in south Germany] Gothe R, et al. **Tierarztl Prax** 1990 Feb;18(1):61–4 (Eng. Abstr.) (Ger)

[Toxocara canis: frequency of detection and extent of infection in bitches of various breeds and husbandry and their litters in South Germany] Gothe R, et al. **Tierarztl Prax** 1990 Jun;18(3):293–300 (Eng. Abstr.) (Ger)

ETIOLOGY

The signs of pancreatic degenerative atrophy in dogs and the role of external factors in the ethiology of the disease. Räihä M, et al. **Acta Vet Scand** 1989;30(4):447–52

Concurrent human and canine histoplasmosis from cutting decayed wood. Davies SF, et al. **Ann Intern Med** 1990 Aug 1;113(3):252–3

Neurocysticercosis in a dog [letter] Rogers SE, et al. **Ann Soc Belg Med Trop** 1989 Dec;69(4):337–8

Generalised protothecosis in a collie dog. Thomas JB, et al. **Aust Vet J** 1990 Jan;67(1):25–7

Chronic dilatative myocarditis caused by Trypanosoma cruzi in two dogs. Barr SC, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1237–41

Pulmonic stenosis caused by single coronary artery in dogs: four cases (1965–1984). Buchanan JW. **J Am Vet Med Assoc** 1990 Jan 1;196(1):115–20

Idiopathic pleural effusion and pulmonary thromboembolism in a dog with autoimmune hemolytic anemia. Bunch SE, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1748–53

Aortic thromboembolism as a complication of gastric dilatation/volvulus in a dog. Carter WO. **J Am Vet Med Assoc** 1990 Jun 1;196(11):1829–30

Questions wisdom of using modified–live virus vaccines as boosters [letter] Craige JE. **J Am Vet Med Assoc** 1990 Aug 1;197(3):297–8

Allergic inhalant dermatitis attributable to marijuana exposure in a dog. Evans AG. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1588–90

Fecal incontinence, urinary incontinence, and priapism associated with multifocal distemper encephalomyelitis in a dog. Guilford WG, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):90–2

Hypertrophic osteopathy in a dog with a chronic lung abscess. Hesselink JW, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):760–2

Unusual anatomic variation of bilateral ectopic ureters in a dog. Hosgood G, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1591–2

Macrohematuria and life–threatening anemia attributable to subepithelial vascular ectasia of the urinary bladder in a dog. Littman MP, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1487–9

Generalized motor seizures after portosystemic shunt ligation in dogs: five cases (1981–1988). Matushek KJ, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):2014–7

Ehrlichiosis in a dog with seizures and nonregenerative anemia. Meinkoth JH, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1754–5

Cutaneous mucinous vesiculation in a dog with hypothyroidism. Miller WH Jr, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):757–9

Transient glomerulonephropathy associated with primary erythrocytosis in a dog. Page RL, et al. **J Am Vet Med Assoc** 1990 Feb 15;196(4):620–2

Primary jejunal osteosarcoma associated with a surgical sponge in a dog. Pardo AD, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):935–8

Rheumatoid arthritis subsequent to Borrelia burgdorferi infection in two dogs. Roush JK, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):951–3

Chronic osteomyelitis associated with orthopedic implants and cranial cruciate repair in three dogs. Roush JK, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1123–6

Peritracheal abscess associated with tracheal collapse and bilateral laryngeal paralysis in a dog. Salisbury SK, et al. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1273–5

Mesenteric torsion in dogs with exocrine pancreatic insufficiency: 21 cases (1978–1987). Westermarck E, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1404–6

Persistent hematuria in a dog with renal hemangioma. Widmer WR, et al. **J Am Vet Med Assoc** 1990 Jul 15; 197(2):237–9

Canine ehrlichiosis in Connecticut. Magnarelli LA, et al. **J Clin Microbiol** 1990 Feb;28(2):366–7

Military working dogs may be a sentinel for human cancer[news] Mahaney FX. **J Natl Cancer Inst** 1990 Jun 20;82(12):1002–3

Right ventricular outflow obstruction caused by primary cardiac neoplasia. Clinical features in two dogs. Bright JM, et al. **J Vet Intern Med** 1990 Jan–Feb;4(1):12–6

Cholestasis associated with extrahepatic bacterial infection in five dogs. Taboada J, et al. **J Vet Intern Med** 1989 Oct–Dec;3(4):216–21

The neuropathic oesophagus. A radiographic and manometric study on the evolution of megaoesophagus in dogs with developing axonal neuropathy. Satchell PM. **Res Vet Sci** 1990 Mar;48(2):249–55

Miscellaneous myopathies. Luttgen PJ. **Semin Vet Med Surg (Small Anim)** 1989 May;4(2):168–76 (27 ref.)

Idiopathic myositides in dogs. Smith MO. **Semin Vet Med Surg (Small Anim)** 1989 May;4(2):156–60 (27 ref.)

Qualitative tear film disease. Moore CP. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):565–81 (61 ref.)

Brunfelsia pauciflora ("yesterday, to–day and tomorrow") poisoning in a dog. Banton MI, et al. **Vet Hum Toxicol** 1989 Oct;31(5):496–7

Amputation neuroma of docked tails in dogs. Gross TL, et al. **Vet Pathol** 1990 Jan;27(1):61–2

Investigations on the role of flea antigen in the pathogenesis of German shepherd dog pyoderma (GSP). Wisselink MA, et al. **Vet Q** 1990 Jan;12(1):21–8

Investigations on the role of staphylococci in the pathogenesis of German shepherd dog pyoderma (GSP). Wisselink MA, et al. **Vet Q** 1990 Jan;12(1):29–34

Ingestion of sheep sponges by sheepdogs [letter; comment] **Vet Rec** 1989 Dec 23–30;125(26–27):658 Comment on: Vet Rec 1989 Dec 9;125(24):609.

Urinary incontinence due to urovagina [letter] Appeldoorn A, et al. **Vet Rec** 1990 Feb 3;126(5):121

Non–specific pruritus in dogs [letter; comment] Day CE. **Vet Rec** 1990 Apr 7;126(14):340 Comment on: Vet Rec 1990 Mar 17;126(11):273–4.

Clinical management of tumours in geriatric dogs and cats: systemic effects of tumours and paraneoplastic syndromes. Gorman NT. **Vet Rec** 1990 Apr 21;126(16):395–8

Ingestion of sheep sponges by sheepdogs [letter] [see comments] Lawson JB, et al. **Vet Rec** 1989 Dec 9; 125(24):609 Comment in: Vet Rec 1989 Dec 23–30;125(26–27):658.

Otitis externa in a foxhound pack associated with Candida albicans. McKellar QA, et al. **Vet Rec** 1990 Jul 7; 127(1):15–6

Lyme disease in dogs [letter] May C, et al. **Vet Rec** 1990 May 5;126(18):466

Cough associated with canine vaccination? [letter] Ostle GN. **Vet Rec** 1989 Oct 21;125(17):446

Acquired pyloric stenosis in a rottweiler [letter] [see comments] Spellman DG, et al. **Vet Rec** 1989 Sep 23; 125(13):356–7 Comment in: Vet Rec 1989 Oct 21;125(17):445–6. Comment in: Vet Rec 1989 Dec 16;125(25):630.

Serological, bacteriological and clinical observations on an outbreak of canine infectious tracheobronchitis in Norway. Ueland K. **Vet Rec** 1990 May 12;126(19):481–3

The role of Dirofilaria immitis antigen in the pathogenesis of pulmonary arteritis in the dog. 1. The effects of antigen infusion. Tarish JH, et al. **Zentralbl Veterinarmed [B]** 1989 Dec;36(10):771–7

[A case of tetanus in a dog (letter)] de Vries BR. **Tijdschr Diergeneeskd** 1990 Aug 15;115(15–16):749 (Dut)

[Aujeszky's disease in dogs and cats] Egberink HF. **Tijdschr Diergeneeskd** 1990 Apr 15;115(8):349–53 (26 ref.) (Eng. Abstr.) (Dut)

[3 cases of Clostridium botulinum type C intoxication in the dog] Tjalsma EJ. **Tijdschr Diergeneeskd** 1990 Jun 1; 115(11):518–21 (Eng. Abstr.) (Dut)

[Dogs with persistent diarrhea] van Noort R. **Tijdschr Diergeneeskd** 1990 Jul 1;115(13):640–2 (Dut)

[Multimorbidity in aged dogs and cats] Kraft W, et al. **Tierarztl Prax** 1990 Apr;18(2):184–91 (Eng. Abstr.) (Ger)

GENETICS

Hereditary transmission of patent ductus arteriosus in the dog. Patterson DF, et al. **Am Heart J** 1967 Aug; 74(2):289–90

Segregation distortion in inheritance of progressive rod cone degeneration (prcd) in miniature poodle dogs. Acland GM, et al. **Am J Med Genet** 1990 Mar;35(3):354–9

Familial immotile–cilia syndrome in English springer spaniel dogs. Edwards DF, et al. **Am J Med Genet** 1989 Jul; 33(3):290–8

Clinical electromyographic studies of canine X–linked muscular dystrophy. Valentine BA, et al. **Am J Vet Res** 1989 Dec;50(12):2145–7

Hereditary cerebellar abiotrophy in Australian kelpie dogs. Thomas JB, et al. **Aust Vet J** 1989 Sep;66(9):301–2

Cytogenetic characterization of a canine haemangiopericytoma. Mayr B, et al. **Br Vet J** 1990 May–Jun;146(3):260–3

Hereditary canine spinal muscular atrophy: canine motor neuron disease. Cork LC, et al. **Can J Vet Res** 1990 Jan; 54(1):77–82

Cytogenetic studies in a canine mammary tumor. Mayr B, et al. **Cancer Genet Cytogenet** 1990 Jul 1;47(1):83–7

Comparison of DNA aneuploidy of primary and metastatic spontaneous canine osteosarcomas. Fox MH, et al. **Cancer Res** 1990 Oct 1;50(19):6176–8

Suspected familial renal disease in chow chows. Brown CA, et al. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1279–84

Canine X–linked muscular dystrophy: morphologic lesions. Valentine BA, et al. **J Neurol Sci** 1990 Jun;97(1):1–23

Premature gonadal failure in female dogs and cats. Johnston SD. **J Reprod Fertil Suppl** 1989;39:65–72 (31 ref.)

Sexual differentiation and inherited disorders of sexual development in the dog. Meyers–Wallen VN, et al. **J Reprod Fertil Suppl** 1989;39:57–64 (43 ref.)

Phenotypic correction of factor IX deficiency in skin fibroblasts of hemophilic dogs. Axelrod JH, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5173–7

Canine hemophilia B resulting from a point mutation with unusual consequences. Evans JP, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10095–9

The muscular dystrophies. Sharp NJ, et al. **Semin Vet Med Surg (Small Anim)** 1989 May;4(2):133–40 (38 ref.)

Corneal dystrophy in the dog and cat. Cooley PL, et al. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):681–92 (38 ref.)

A familial alopecia [letter] Coward PS. **Vet Rec** 1989 Dec 9;125(24):609–10

Hereditary nephritis in the bull terrier: evidence for inheritance by an autosomal dominant gene. Hood JC, et al. **Vet Rec** 1990 May 5;126(18):456–9

Lethal acrodermatitis of bull terriers [letter] McEwan NA. **Vet Rec** 1990 Jul 28;127(4):95

Translocation t(4;27) in a canine mammary complex adenocarcinoma. Mayr B, et al. **Vet Rec** 1990 Jan 13; 126(2):42

Squamous cell carcinoma of the nail bed in three related giant schnauzers. Paradis M, et al. **Vet Rec** 1989 Sep 16; 125(12):322–4

Chromosome analysis of canine transmissible sarcoma cells. Fujinaga T, et al. **Zentralbl Veterinarmed [A]** 1989 Aug; 36(7):481–9

Pancreatic degenerative atrophy in the collie breed: a hereditary disease. Westermarck E, et al. **Zentralbl Veterinarmed [A]** 1989 Aug;36(7):549–54

[Probability of hereditary nature of bone tumors in dogs] Ponomar'kov VI, et al. **Vopr Onkol** 1989;35(12):1488–9 (Rus)

IMMUNOLOGY

Kinetics of IgM and IgG responses to experimental and naturally acquired Rickettsia rickettsii infection in dogs. Breitschwerdt EB, et al. **Am J Vet Res** 1990 Aug; 51(8):1312–6

Immune complexes and rheumatoid factors in canine arthritides. Carter SD, et al. **Ann Rheum Dis** 1989 Dec; 48(12):986–91

Anti–type II collagen antibody in naturally occurring canine joint diseases. Bari AS, et al. **Br J Rheumatol** 1989 Dec; 28(6):480–6

Systemic lupus erythematosus in dogs: association to the major histocompatibility complex class I antigen DLA–A7. Teichner M, et al. **Clin Immunol Immunopathol** 1990 May; 55(2):255–62

Influence of immunosuppressants against Dirofilaria immitis infection in dogs. Hayasaki M, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):955–60

Detection of serum antibodies of oral Porphyromonas (Bacteroides) asaccharolyticus in dogs: relationship to periodontal disease. Isogai H, et al. **Nippon Juigaku Zasshi** 1989 Dec;51(6):1239–41

In vitro immunologic features of Weimaraner dogs with neutrophil abnormalities and recurrent infections. Couto CG, et al. **Vet Immunol Immunopathol** 1989 Nov 30; 23(1–2):103–12

Detection of antiplatelet immunoglobulin in thrombocytopenic dogs. McVey DS, et al. **Vet Immunol Immunopathol** 1989 Sep;22(2):101–11

Mitogen stimulation of canine normal and myasthenia gravis lymphocytes. Shelton GD, et al. **Vet Immunol Immunopathol** 1990 Jan;24(1):1–9

Synovial fluid proteins in degenerative joint disease in dogs. Strøm H, et al. **Vet Immunol Immunopathol** 1989 Sep; 22(2):187–96

[Demodicosis of dogs—a factorial disease?] Gothe R. **Berl Munch Tierarztl Wochenschr** 1989 Sep 1;102(9):293–7

(44 ref.) (Eng. Abstr.) (Ger)
[Studies of dog sera using the microagglutination test for Q-fever in Greece] Chambouris R, et al.
Geogr Med Suppl 1989;3:23–8 (Eng. Abstr.) (Ger)
[Leptospirosis in dogs in Greece] Sebek Z, et al.
Geogr Med Suppl 1989;3:29–39 (Ger)

METABOLISM

Evaluation of canine mast cell tumors for presence of estrogen receptors. Larsen AE, et al. **Am J Vet Res** 1989 Oct;50(10):1779–80
Müllerian inhibiting substance is present in testes of dogs with persistent müllerian duct syndrome. Meyers-Wallen VN, et al. **Biol Reprod** 1989 Nov;41(5):881–8
Enhanced intestinal permeability to 51Cr-labeled EDTA in dogs with small intestinal disease. Hall EJ, et al.
J Am Vet Med Assoc 1990 Jan 1;196(1):91–5
Alterations in carbohydrate metabolism in canine lymphoma. Vail DM, et al. **J Vet Intern Med** 1990 Jan–Feb;4(1):8–11
The effect of clinical hepatic disease on the distribution and elimination of pethidine administered post-operatively to dogs. Waterman AE, et al. **J Vet Pharmacol Ther** 1990 Jun;13(2):137–47
Methemoglobin formation and reduction in canine erythrocytes with inherited high Na,K-ATPase activity. Ogawa E, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1185–92
Canine stress syndrome/malignant hyperthermia susceptibility: calcium-homeostasis defect in muscle and lymphocytes. O'Brien PJ, et al. **Res Vet Sci** 1990 Jan; 48(1):124–8
Assessment of fat absorption in normal dogs and in dogs with hyperadrenocorticalism. Simpson JW, et al.
Res Vet Sci 1990 Jan;48(1):38–41
Biochemical changes in the jejunal mucosa of dogs with exocrine pancreatic insufficiency following pancreatic duct ligation. Simpson KW, et al. **Res Vet Sci** 1989 Nov; 47(3):338–45
Metabolic and endocrine myopathies of dogs and cats. LeCouteur RA, et al.
Semin Vet Med Surg (Small Anim) 1989 May;4(2):146–55 (92 ref.)
Effects of trypanosomal infection on the pharmacokinetics of diminazene aceturate in dogs. Anika SM, et al.
Trop Med Parasitol 1989 Dec;40(4):419–21
Nutrition and cancer. Recent developments. Ogilvie GK, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):969–85 (55 ref.)
Islet amyloid polypeptide and calcitonin gene-related peptide immunoreactivity in amyloid and tumor cells of canine pancreatic endocrine tumors. O'Brien TD, et al.
Vet Pathol 1990 May;27(3):194–8
Persistent polyuria in two dogs following adrenocorticolysis for pituitary-dependent hyperadrenocorticism [published erratum appears in Vet Q 1990 Jan;12(1):64] Biewenga WJ, et al. **Vet Q** 1989 Oct;11(4):193–7

MICROBIOLOGY

Mosquito-induced infection with equine encephalomyelitis virus in dogs. Bivin WS, et al. **Am J Trop Med Hyg** 1967 Jul;16(4):544–7
Experimental model of staphylococcal osteomyelitis in dogs. Varshney AC, et al. **Indian J Exp Biol** 1989 Sep;27(9):816–9
Enterotoxigenicity of Staphylococcus intermedius of canine origin. Hirooka EY, et al. **Int J Food Microbiol** 1988 Dec; 7(3):185–91
Serotypes of Pseudomonas aeruginosa from human and animal sources. Hariharan H, et al.
Int J Med Microbiol 1989 Dec;272(2):248–51
Comparison of two sample collection methods for quantitative bacteriologic culture of canine prostatic fluid. Ling GV, et al. **J Am Vet Med Assoc** 1990 May 1; 196(9):1479–82
Bacterial growth associated with metallic implants in dogs. Smith MM, et al. **J Am Vet Med Assoc** 1989 Sep 15; 195(6):765–7
Dermatophytes and keratinophilic fungi in cats and dogs. Caretta G, et al. **Mycoses** 1989 Dec;32(12):620–6
Aspergillus fumigatus, the causative agent of infection of the frontal sinuses and nasal chambers of the dog. Mortellaro CM, et al. **Mycoses** 1989 Jul;32(7):327–35
Serotypes and antimicrobial susceptibility of Pseudomonas aeruginosa strains isolated from diseased dogs. Ozaki K, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):233–9
Large and small plaque variants of canine adenovirus 2 isolate. Tohya Y, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1267–9
In vitro activity of five antifungal agents against Malassezia pachydermatis. Uchida Y, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):851–3
Clinico-microbiological study of the normal and otitic external ear canals in dogs and cats. Uchida Y, et al.
Nippon Juigaku Zasshi 1990 Apr;52(2):415–7
Microbiology of the canine and feline eye. Gerding PA Jr, et al. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):615–25 (44 ref.)
Further studies on rabies virus isolated from healthy dogs in Nigeria. Aghomo HO, et al. **Vet Microbiol** 1990 Mar; 22(1):17–22
Genomic heterogeneity of canine ureaplasmas revealed by restriction endonuclease analysis. Harasawa R, et al.
Zentralbl Veterinarmed [B] 1990 Feb;37(1):77–80
[The occurrence of Clostridium difficile in fecal samples of dogs and cats] Weber A, et al.
Zentralbl Veterinarmed [B] 1989 Oct;36(8):568–76 (Eng. Abstr.) (Ger)

MORTALITY

Influence of parental serum immunoglobulins on morbidity and mortality of beagles and their offspring. Shofer FS, et al. **Am J Vet Res** 1990 Feb;51(2):239–44
Veterinary oncology [letter; comment] Hayes HM.
J Natl Cancer Inst 1990 Jun 6;82(11):973 Comment on: J Natl Cancer Inst 1989 Dec 20;81(24):1859–61.
The possible enhancement of parvovirus vaccination on the mortality rate of diseased dogs. Brenner J, et al.
Zentralbl Veterinarmed [B] 1989 Sep;36(7):547–50

PARASITOLOGY

Immunohistochemical diagnosis of Neospora caninum in tissue sections. Lindsay DS, et al. **Am J Vet Res** 1989 Nov; 50(11):1981–3
Interstitial nephritis and glomerulonephritis in visceral leishmaniasis in a dog. A case report. Marcussen N, et al. **APMIS** 1989 Dec;97(12):1137–40
Evaluation of protein-A gold labelling with Dirofilaria immitis antigen coated nitrocellulose for the detection of anti-heartworm antibody in dogs. Tarish JH, et al.
Aust Vet J 1989 Sep;66(9):295–6
Taking a close look at toxocariasis [news] Reotutar R.
J Am Vet Med Assoc 1990 Apr 1;196(7):1009–12, 1015
On the characterization of the flagellate parasite of uncertain identity from the brown rats and dogs in Egypt [letter] Morsy TA, et al. **J Egypt Soc Parasitol** 1990 Jun; 20(1):345–7
Studies on host specificity in Paragonimus westermani: I. Ultrastructural characterization of metacercariae and juvenile and adult worms from abnormal and definitive hosts. Fujino T, et al. **J Helminthol** 1989 Sep;63(3):239–49
Caryospora-associated dermatitis in dogs. Dubey JP, et al.
J Parasitol 1990 Aug;76(4):552–6
Ultrastructure of tachyzoites, bradyzoites and tissue cysts of Neospora caninum. Speer CA, et al. **J Protozool** 1989 Sep-Oct;36(5):458–63
Ultrastructure of sporozoites and zoites of Hammondia heydorni. Speer CA, et al. **J Protozool** 1989 Sep-Oct; 36(5):488–93
Evaluation of a skin test on the canine mucocutaneous leishmaniasis diagnosis. Marzochi MC, et al.
Mem Inst Oswaldo Cruz 1988 Jul-Sep;83(3):391–2
The optimal condition for peroxidase-anti-peroxidase staining of lung tissues in canine dirofilariasis. Tanaka K, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):447–51
Prevalence of antibodies against Babesia canis in dogs in an endemic area. Bobade PA, et al.
Rev Elev Med Vet Pays Trop 1989;42(2):211–7
Cutaneous habronemiasis in a dog. Sanderson TP, et al.
Vet Pathol 1990 May;27(3):208–9
Mite infestation [letter; comment] Harvey RG. **Vet Rec** 1989 Dec 23–30;125(26–27):656 Comment on: Vet Rec 1989 Dec 2;125(23):584.
Characterisation of Giardia species of canine and human origin using RFLPs [letter] Hay DC, et al. **Vet Rec** 1990 Mar 17;126(11):274
[Simultaneous presence in dogs of 2 zymodemes of the Leishmania infantum complex] Pratlong F, et al.
Ann Parasitol Hum Comp 1989;64(4):312–4 (Eng. Abstr.) (Fre)
[Pentatrichomonas hominis from beagle dogs—detection method, characteristics and route of infection] Fukushima T, et al. **Jikken Dobutsu** 1990 Apr;39(2):187–92 (Eng. Abstr.) (Jpn)
[Experimental evolutive cycle of Diphyllobothrium erinaceieuropei in Paracyclops fimbriatus, tadpoles of Bufo arenarum and dogs] Venturini L.
Rev Inst Med Trop Sao Paulo 1989 Sep-Oct;31(5):308–12 (Eng. Abstr.) (Spa)

PATHOLOGY

Histopathological changes in canine allergic contact dermatitis patch test reactions. A study on spontaneously hypersensitive dogs. Thomsen MK, et al.
Acta Vet Scand 1989;30(4):379–84
Platelet aggregation studies in dogs with acute Ehrlichia platys infection. Gaunt SD, et al. **Am J Vet Res** 1990 Feb; 51(2):290–3
Development of wheat-sensitive enteropathy in Irish Setters: morphologic changes. Hall EJ, et al. **Am J Vet Res** 1990 Jul;51(7):978–82
Cell proliferation kinetics of epidermis, hair follicles, and sebaceous glands of cocker spaniels with idiopathic seborrhea. Kwochka KW, et al. **Am J Vet Res** 1989 Nov; 50(11):1918–22
Mast cell numbers in normal and glaucomatous canine eyes. Louden C, et al. **Am J Vet Res** 1990 May;51(5):818–9
Characterization of osteosarcoma cells from two sibling large-breed dogs. Norrdin RW, et al. **Am J Vet Res** 1989 Nov;50(11):1971–5
Morphologic measurements of the external horizontal ear canal of dogs. Stout-Graham M, et al. **Am J Vet Res** 1990 Jul;51(7):990–4
Immunohistochemical detection of osteosarcoma-associated antigen in canine osteosarcoma. Haines DM, et al.
Anticancer Res 1989 Jul-Aug;9(4):903–7
Lafora's disease in a dog. Davis KE, et al. **Aust Vet J** 1990 May;67(5):192–3
Follow-up studies by peroral gastric biopsies and necropsy in vomiting dogs. van der Gaag I, et al.
Can J Vet Res 1989 Oct;53(4):468–72
Follow-up studies by large intestinal biopsies and necropsy in dogs with clinical signs of large bowel disease. van der Gaag I, et al. **Can J Vet Res** 1989 Oct;53(4):473–6
Seasonal flank alopecia in ovariohysterectomized dogs. Scott DW. **Cornell Vet** 1990 Apr;80(2):187–95
Generalized lymphangiectasis in a dog with subcutaneous chyle and lymphangioma. Fossum TW, et al.
J Am Vet Med Assoc 1990 Jul 15;197(2):231–6
Comparison of survey radiography with ultrasonography and x-ray computed tomography for clinical staging of subcutaneous neoplasms in dogs. Hahn KA, et al.
J Am Vet Med Assoc 1990 Jun 1;196(11):1795–8
Intracardiac rhabdomyosarcoma in a dog. Krotje LJ, et al.
J Am Vet Med Assoc 1990 Aug 1;197(3):368–71
Peripheral hypomyelinization in two golden retriever littermates. Matz ME, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):228–30
Lymphosarcoma with disseminated skeletal involvement in a pup. Rogers KS, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1242–4
Comparisons between endoscopic and histologic evaluation of the gastrointestinal tract in dogs and cats: 75 cases (1984–1987). Roth L, et al. **J Am Vet Med Assoc** 1990 Feb 15;196(4):635–8
Clinical and pathologic features of ceroid lipofuscinosis in two Australian cattle dogs. Sisk DB, et al.
J Am Vet Med Assoc 1990 Aug 1;197(3):361–4
Nonangiogenic and nonlymphomatous sarcomas of the canine spleen: 57 cases (1975–1987). Weinstein MJ, et al.
J Am Vet Med Assoc 1989 Sep 15;195(6):784–8
Dermal necrosis associated with Rocky Mountain spotted fever in four dogs. Weiser IB, et al.
J Am Vet Med Assoc 1989 Dec 15;195(12):1756–8
Investigations of bone marrow dyscrasia in a poodle with macrocytosis. Canfield PJ, et al. **J Comp Pathol** 1989 Oct; 101(3):269–78
Malignant jugulotympanic paraganglioma in a dog. Cooley AJ, et al. **J Comp Pathol** 1990 May;102(4):375–83
Squamous cell carcinoma in a puppy. Haziroğlu R, et al.
J Comp Pathol 1989 Aug;101(2):221–3
Comparative pathology of canine mammary tumours. Nerurkar VR, et al. **J Comp Pathol** 1989 Nov;101(4):389–97
Canine capillary and combined capillary-cavernous haemangioma. van der Gaag I, et al. **J Comp Pathol** 1989 Jul;101(1):69–74
An expansile secondary hypophyseal mastocytoma in a dog. Eckersley GN, et al. **J S Afr Vet Assoc** 1989 Jun; 60(2):113–6
Lymphocytic-plasmacytic enteritis in 24 dogs. Jacobs G, et al. **J Vet Intern Med** 1990 Mar–Apr;4(2):45–53
Canine lymphoproliferative disorders. An ultrastructural study of 18 cases. Madewell BR, et al.
J Vet Intern Med 1990 Mar–Apr;4(2):63–70
Intramedullary spinal cord metastasis in the dog. Waters DJ, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):207–15
Intracranial lesions in dogs with hemangiosarcoma. Waters DJ, et al. **J Vet Intern Med** 1989 Oct–Dec;3(4):222–30
Histopathology of spontaneous panarteritis in beagle dogs. Kemi M, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):55–61
Outbreak of neonatal canine herpesvirus infection in a specific pathogen-free beagle colony. Kojima A, et al.
Nippon Juigaku Zasshi 1990 Feb;52(1):145–54
Hepatic nodular fibrosis in a dog. Nakayama H, et al.
Nippon Juigaku Zasshi 1990 Aug;52(4):831–3
Superficial eosinophilic gastritis in laboratory beagle dogs attributable probably to diet. Narama I, et al.
Nippon Juigaku Zasshi 1990 Jun;52(3):581–9
Improvement in pulmonary arterial lesions after heartworm removal using flexible alligator forceps. Sasaki Y, et al.
Nippon Juigaku Zasshi 1990 Aug;52(4):743–52
Amyloid angiopathy with cerebral hemorrhage and senile plaque in aged dogs. Uchida K, et al.
Nippon Juigaku Zasshi 1990 Jun;52(3):605–11
Plasmacytic lymphocytic colitis in the dog. Leib MS, et al.
Semin Vet Med Surg (Small Anim) 1989 Aug;4(3):241–6
Clinical pathology: part II.
Vet Clin North Am Small Anim Pract 1989 Sep; 19(5):823–1006
Ocular neoplasia in small animals. Dubielzig RR.
Vet Clin North Am Small Anim Pract 1990 May; 20(3):837–48 (14 ref.)
Neosporosis in dogs. Dubey JP, et al. **Vet Parasitol** 1990 May;36(1–2):147–51
Phenotypic characterization of normal and neoplastic canine endothelial cells by lectin histochemistry. Augustin-Voss HG, et al. **Vet Pathol** 1990 Mar;27(2):103–9
Characteristics of canine melanomas and comparison of histology and DNA ploidy to their biologic behavior. Bolon B, et al. **Vet Pathol** 1990 Mar;27(2):96–102
Canine lingual acinic cell carcinoma (clear cell variant) of minor salivary gland. Brunnert SR, et al. **Vet Pathol** 1990 May;27(3):203–5
Canine bilateral extraocular polymyositis. Carpenter JL, et al. **Vet Pathol** 1989 Nov;26(6):510–2
Colorectal ganglioneuromatosis in a young female dog (Lhasa

Apso). Fairley RA, et al. **Vet Pathol** 1990 May;27(3):206–7
Malignant canine anterior uveal melanoma. Friedman DS, et al. **Vet Pathol** 1989 Nov;26(6):523–5
Thyroid neoplasms in a colony of beagle dogs. Haley PJ, et al. **Vet Pathol** 1989 Sep;26(5):438–41
Polysaccharide storage myopathy in canine phosphofructokinase deficiency (type VII glycogen storage disease). Harvey JW, et al. **Vet Pathol** 1990 Jan;27(1):1–8
Calcium pyrophosphate deposition (chondrocalcinosis) in a dog. Heimann M, et al. **Vet Pathol** 1990 Mar;27(2):122–4
The expression of intermediate filaments in canine mammary glands and their tumors. Hellmén E, et al. **Vet Pathol** 1989 Sep;26(5):420–8
Lymphomatoid granulomatosis in a beagle dog. Leblanc B, et al. **Vet Pathol** 1990 Jul;27(4):287–9
Ocular histopathology of Vogt–Koyanagi–Harada–like syndrome in an Akita dog. Lindley DM, et al. **Vet Pathol** 1990 Jul;27(4):294–6
Identification and characterization of megakaryoblasts in acute megakaryoblastic leukemia in a dog. Messick J, et al. **Vet Pathol** 1990 May;27(3):212–4
Cytologic, histologic, and ultrastructural characteristics of a canine myxoid liposarcoma. Messick JB, et al. **Vet Pathol** 1989 Nov;26(6):520–2
Transitional cell carcinomas of the urinary tract in a colony of beagle dogs. Nikula KJ, et al. **Vet Pathol** 1989 Nov; 26(6):455–61
Canine extraskeletal osteosarcoma and chondrosarcoma: a clinicopathologic study of 14 cases. Patnaik AK. **Vet Pathol** 1990 Jan;27(1):46–55
Clinicopathologic characterization of canine juvenile cellulitis. Reimann KA, et al. **Vet Pathol** 1989 Nov; 26(6):499–504
Identification of parathyroid hormone–related protein in canine apocrine adenocarcinoma of the anal sac. Rosol TJ, et al. **Vet Pathol** 1990 Mar;27(2):89–95
Morphometric analyses of the skin of dogs with atopic dermatitis and correlations with cutaneous and plasma histamine and total serum IgE. Wilkie JS, et al. **Vet Pathol** 1990 May;27(3):179–86
Monostotic fibrous dysplasia in a dog. Wilson RB. **Vet Pathol** 1989 Sep;26(5):449–50
Regional eosinophilic coloproctitis, typhlitis and ileitis in a dog. van der Gaag I, et al. **Vet Q** 1990 Jan;12(1):1–6
Non–exfoliative canine cytology: the value of fine needle aspiration and scraping cytology. Vos JH, et al. **Vet Q** 1989 Oct;11(4):222–31
Generalised progressive retinal atrophy in the English setter in Norway. Bjerkas E. **Vet Rec** 1990 Mar 3;126(9):217
Canine perineal tumours. Berrocal A, et al. **Zentralbl Veterinarmed [A]** 1989 Dec;36(10):739–49
Erosive colitis in experimental canine Leishmaniasis. González JL, et al. **Zentralbl Veterinarmed [B]** 1990 Jul; 37(5):377–82
[An unusual occurrence of spinaliomas in schnauzers] Halouzka R, et al. **Vet Med (Praha)** 1990 Jan;35(1):49–56 (Eng. Abstr.) (Cze)
[Multiple enchondromatosis in dogs. Pathologico–anatomic and histologic findings, discussion of pathogenesis] Krauser K. **Tierarztl Prax** 1990 Jun;18(3):301–7 (Eng. Abstr.) (Ger)
[The morphological characteristics of lymphoid hemoblastoses in dogs] Golubeva VA, et al. **Arkh Patol** 1989;51(8):21–5 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Comparison of arrhythmogenic doses of epinephrine in heartworm–infected and noninfected dogs. Venugopalan CS, et al. **Am J Vet Res** 1989 Nov;50(11):1872–6
Postnatal hematologic development in phosphofructokinase–deficient dogs. Harvey JW, et al. **Blood** 1989 Nov 15;74(7):2556–61
Naturally occurring cardiomyopathy in the Doberman pinscher: a possible large animal model of human cardiomyopathy? Smucker ML, et al. **J Am Coll Cardiol** 1990 Jul;16(1):200–6
ECG of the month. Sackman JE, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1392–3
Canine chronic bronchitis. A pathophysiologic evaluation of 18 cases. Padrid PA, et al. **J Vet Intern Med** 1990 May–Jun; 4(3):172–80
Increased erythrophagocytic activity of macrophages in dogs with Babesia gibsoni infection. Murase T, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):321–7
Electrophysiological and pathological study in a dog with seizure. Uzuka Y, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):1055–8
Abnormal wave forms of auditory brainstem response (ABR) in two dogs. Uzuka Y, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):1083–6
Urethral pressure profilometry in the anaesthetised bitch: a comparison between double and single sensor recording. Holt PE. **Res Vet Sci** 1989 Nov;47(3):346–9
The autonomic nervous system: functions and dysfunctions. **Semin Vet Med Surg (Small Anim)** 1990 Feb;5(1):1–74
Canine gastric dilatation—volvulus update. Hall JA. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):188–93 (54 ref.)
Pathophysiology of hepatic encephalopathy. Hardy RM. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):100–6 (27 ref.)
Biochemical evaluation of the hepatobiliary system in dogs and cats. Sutherland RJ. **Vet Clin North Am Small Anim Pract** 1989 Sep; 19(5):899–927 (105 ref.)
A late receptor dystrophy in the Labrador retriever. Kommonen B, et al. **Vision Res** 1990;30(2):207–13
[Exocrine pancreatic insufficiency in dogs] van Noort R. **Tijdschr Diergeneeskd** 1990 Jul 1;115(13):632–6 (16 ref.) (Eng. Abstr.) (Dut)

PREVENTION & CONTROL

Prevention of reperfusion injury in surgically induced gastric dilatation–volvulus in dogs. Badylak SF, et al. **Am J Vet Res** 1990 Feb;51(2):294–9
Organophosphorus hazard to pet grooms [letter] Turner AJ. **Aust Vet J** 1990 Apr;67(4):N121
Economics of human and canine rabies elimination: guidelines for programme orientation. Bögel K, et al. **Bull World Health Organ** 1990;68(3):281–91
Protection of dogs against death from experimental rabies by postexposure administration of rabies vaccine and hyperimmune globulin (human). Cho HC, et al. **Can J Vet Res** 1989 Oct;53(4):434–7
Rabies prevention in Hawaii. Fishbein DB, et al. **Hawaii Med J** 1990 Mar;49(3):98–101
Opposing viewpoints on efficacy of ultrasonic flea collars [letter; comment] Bonge NJ. **J Am Vet Med Assoc** 1990 May 1;196(9):1354–5 Comment on: J Am Vet Med Assoc 1989 Dec 15;195(12):1717–8.
Protection against Babesia infection in beagles immunized with Toxoplasma lysate antigen. Sato M, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):155–8
Vaccination against canine babesiosis: an overview of field observations. Moreau Y, et al. **Trans R Soc Trop Med Hyg** 1989;83 Suppl:95–6
[Testing for immunogenic and protective properties of vaccine against tissue–inactivated rabies] Vrzal V, et al. **Vet Med (Praha)** 1990 Feb;35(2):87–95 (Eng. Abstr.) (Cze)
[A simple treatment of demodicosis (letter)] Drenthe JJ. **Tijdschr Diergeneeskd** 1989 Jul 15;114(14):806 (Dut)
[Clinical experience with kennel–specific E. coli oral vaccines in dogs] Baljer G, et al. **Tierarztl Prax** 1990 Feb;18(1):65–8 (Eng. Abstr.) (Ger)
[Parvovirus infections in dogs and cats: problems of immunization] Mayr A. **Tierarztl Prax** 1989;17(4):399–402 (9 ref.) (Eng. Abstr.) (Ger)
[The effectiveness and safety of an immunization against parvovirus and rabies in anesthetized puppies] Mayr B, et al. **Tierarztl Prax** 1990 Apr;18(2):165–9 (Eng. Abstr.) (Ger)

PSYCHOLOGY

Cross species applicability of psychiatric diagnosis and treatment [letter; comment] O'Farrell V. **BMJ** 1990 Jan 20;300(6718):197 Comment on: BMJ 1989 Dec 23–30;299(6715):1569.

RADIOGRAPHY

Evaluation of the prognostic value of positive–contrast shoulder arthrography for bilateral osteochondrosis lesions in dogs. van Bree H. **Am J Vet Res** 1990 Jul;51(7):1121–5
Nephrotomography and ultrasonography for the localization of hyperfunctioning adrenocortical tumors in dogs. Voorhout G, et al. **Am J Vet Res** 1990 Aug;51(8):1280–5
The effect of infusions of microfilariae (L1 larvae) of Dirofilaria immitis in dogs. Carlisle CH, et al. **Int J Parasitol** 1989 Nov;19(7):729–32
What is your diagnosis? Neoplasia of the right radius, probably osteosarcoma. Ansari MM, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1615–6
What is your diagnosis? Multiple myeloma. Authement JM, et al. **J Am Vet Med Assoc** 1990 Feb 1;196(3):477–8
Preoperative measurement of canine primary bone tumors, using radiography and bone scintigraphy. Lamb CR, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1474–8
What is your diagnosis? An air–filled circular lesion within the caudodorsal portion of the thorax. Lewis DT, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1513–4
What is your diagnosis? Swelling of spinal cord associated with dural tear between segments T13 and L1. Montavon PM, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):783–4
New concepts of coxofemoral joint stability and the development of a clinical stress–radiographic method for quantitating hip joint laxity in the dog. Smith GK, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):59–70
Multilobular osteochondrosarcoma of the canine skull: 16 cases (1978–1988). Straw RC, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1764–9
Radiographic bone surveys [letter] Straw RC, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1458
Assessment of survey radiography and comparison with x–ray computed tomography for detection of hyperfunctioning adrenocortical tumors in dogs. Voorhout G, et al. **J Am Vet Med Assoc** 1990 Jun 1;196(11):1799–803
Pulmonary lymphomatoid granulomatosis in seven dogs (1976–1987). Berry CR, et al. **J Vet Intern Med** 1990 May–Jun;4(3):157–66
Radiographic diagnosis of esophageal diseases in dogs and cats. Stickle RL, et al. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):179–87 (22 ref.)
Case report 622. Multiple cartilaginous exostoses. Liu SK, et al. **Skeletal Radiol** 1990;19(5):383–5
[Morphometric studies of radiographic pictures of lumbar vertebrae of healthy Boxers and Boxers with spondylosis] Eichelberg H, et al. **Tierarztl Prax** 1989;17(4):403–6 (Eng. Abstr.) (Ger)
[The clinical picture of multiple enchondromatosis in the dog] Matis U, et al. **Tierarztl Prax** 1990 Apr;18(2):192–9 (Eng. Abstr.) (Ger)

RADIONUCLIDE IMAGING

Quantitative hepatobiliary scintigraphy as a measure of bile flow in dogs with cholestatic disease. Rothuizen J, et al. **Am J Vet Res** 1990 Feb;51(2):253–6
Bone scintigraphy in the initial evaluation of dogs with primary bone tumors. Berg J, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):917–20
Single–phase methylene diphosphate bone scintigraphy in the diagnostic evaluation of dogs with osteosarcoma. Hahn KA, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1483–6
Nuclear medical bone imaging and targeted radiography for evaluation of skeletal neoplasms in 23 dogs. Parchman MB, et al. **Vet Surg** 1989 Nov–Dec;18(6):454–8

RADIOTHERAPY

Development of brachytherapy technique for nasal tumors in dogs. White R, et al. **Am J Vet Res** 1990 Aug; 51(8):1250–6
Radiation–induced osteosarcoma in dogs after external beam or intraoperative radiation therapy. Gillette SM, et al. **Cancer Res** 1990 Jan 1;50(1):54–7
Clinical and clinicopathologic response of canine bone tumor patients to treatment with samarium–153–EDTMP [see comments] Lattimer JC, et al. **J Nucl Med** 1990 Aug; 31(8):1316–25 Comment in: J Nucl Med 1990 Aug;31(8):1326–7.
Clinical indications and applications of radiotherapy and hyperthermia in veterinary oncology. Page RL, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):1075–92 (74 ref.)

SURGERY

Long–term survival after surgical excision of a schwannoma of the sixth cervical spinal nerve in a dog. Bailey CS. **J Am Vet Med Assoc** 1990 Mar 1;196(5):754–6
Total ear canal ablation combining bulla osteotomy and curettage in dogs with chronic otitis externa and media. Beckman SL, et al. **J Am Vet Med Assoc** 1990 Jan 1; 196(1):84–90
Results of ligation of patent ductus arteriosus in dogs: 201 cases (1969–1988). Birchard SJ, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):2011–3
Mineralization of the supraspinatus tendon in dogs. Flo GL, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):95–7
Surgically induced tumor seeding in eight dogs and two cats. Gilson SD, et al. **J Am Vet Med Assoc** 1990 Jun 1; 196(11):1811–5
Surgical excision of ectopic thyroid carcinoma involving the base of the tongue in dogs: three cases (1980–1987). Lantz GC, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1606–8
Treatment of glaucoma by use of transscleral neodymium:yttrium aluminum garnet laser cyclocoagulation in dogs. Nasisse MP, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):350–4
Reduction of hydronephrosis and hydroureter associated with ectopic ureters in two dogs after ureterovesical anastomosis. Ross LA, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1497–9
Management of tracheal stenosis in a dog. Smith MM, et al. **J Am Vet Med Assoc** 1990 Mar 15;196(6):931–4
Treatment of serous retinal detachments associated with optic disk pits in dogs. Vainisi SJ, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1233–6
Therapy of immune mediated thrombocytopenia. A retrospective study of 15 dogs. Jans HE, et al. **J Vet Intern Med** 1990 Jan–Feb;4(1):4–7
Successful mitral valvuloplasty for mitral regurgitation in a dog. Kanemoto I, et al. **Nippon Juigaku Zasshi** 1990 Apr; 52(2):411–4
Surgical treatment of priapism observed in a dog and a cat. Orima H, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1227–9
Aggressive surgery in the management of oral neoplasia. Birchard S, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul;20(4):1117–40 (29 ref.)
Cataract surgery. Current approaches. Dziezyc J. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):737–54 (38 ref.)
Cystogastrostomy in the treatment of pancreatic pseudocyst/abscess in two dogs. Bellenger CR, et al. **Vet Rec** 1989 Aug 19;125(8):181–4
Acquired pyloric stenosis [letter; comment] Prole JH. **Vet Rec** 1989 Dec 16;125(25):630 Comment on: Vet Rec 1989 Sep 23;125(13):356–7.
Vulvovaginectomy and perineal urethrostomy for neoplasms of the vulva and vagina. Bilbrey SA, et al. **Vet Surg** 1989 Nov–Dec;18(6):450–3
Fixation of the deferent ducts for retrodisplacement of the urinary bladder and prostate in canine perineal hernia. Bilbrey SA, et al. **Vet Surg** 1990 Jan–Feb;19(1):24–7
Success rates of unilateral vs. bilateral cataract extraction

in dogs. Davidson MG, et al. **Vet Surg** 1990 May-Jun; 19(3):232-6
Radial and tibial fracture repair with external skeletal fixation. Effects of fracture type, reduction, and complications on healing. Johnson AL, et al. **Vet Surg** 1989 Sep-Oct;18(5):367-72
An open patch-graft technique for correction of pulmonic stenosis in the dog. Orton EC, et al. **Vet Surg** 1990 Mar-Apr;19(2):148-54
Hiatal hernia repair by restoration and stabilization of normal anatomy. An evaluation in four dogs and one cat. Prymak C, et al. **Vet Surg** 1989 Sep-Oct;18(5):386-91
Chronic otitis externa and otitis media treated by total ear canal ablation and ventral bulla osteotomy in thirteen dogs. Sharp NJ. **Vet Surg** 1990 Mar-Apr;19(2):162-6
[Lens extraction] Heijn A. **Tijdschr Diergeneeskd** 1990 Mar 1;115(5):224-6 **(Dut)**
[Jaw tumors in dogs] Nap RC. **Tijdschr Diergeneeskd** 1989 Jul 1;114(13):733-5 **(Dut)**
[Arthrodesis and 'nil nocere', a contradiction?] Poll PH. **Tijdschr Diergeneeskd** 1990 May 1;115(9):426-8 **(Dut)**

THERAPY

Veterinary orthodontics. Kraut JM, et al. **Am J Orthod Dentofacial Orthop** 1990 Jul;98(1):19-21
Mast cell tumor destruction by deionized water. Grier RL, et al. **Am J Vet Res** 1990 Jul;51(7):1116-20
A comparison of temperatures in canine solid tumours during local and whole-body hyperthermia administered alone and simultaneously. Thrall DE, et al. **Int J Hyperthermia** 1990 Mar-Apr;6(2):305-17
Controlled localized heating and isotretinoin effects in canine squamous cell carcinoma. Levine N, et al. **J Am Acad Dermatol** 1990 Jul;23(1):68-72
Treatment of urinary incontinence in dogs by endoscopic injection of Teflon. Arnold S, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1369-74
Clinical remission following plasmapheresis and corticosteroid treatment in a dog with acquired myasthenia gravis. Bartges JW, et al. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1276-8
Peritoneal dialysis in dogs and cats: 27 cases (1976-1987). Crisp MS, et al. **J Am Vet Med Assoc** 1989 Nov 1; 195(9):1262-6
Clarification of iodine lavage solution for treatment of peritonitis [letter] DiSartola SP. **J Am Vet Med Assoc** 1990 Jul 15;197(2):168
Effect of chewing rawhide and cereal biscuit on removal of dental calculus in dogs. Lage A, et al. **J Am Vet Med Assoc** 1990 Jul 15;197(2):213-9
Limb-sparing treatment for osteosarcoma in dogs. LaRue SM, et al. **J Am Vet Med Assoc** 1989 Dec 15; 195(12):1734-44
Treatment of lymphoma in dogs. Rosenthal RC, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):774-81 (73 ref.)
Experience with hyposensitization [letter] Schultz K, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):1910-1
Development of a special alligator forceps for removal of pulmonary heartworms in very small dogs. Ishihara K, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):159-61
Enteral and parenteral nutritional support in dogs and cats with gastrointestinal disease. Lippert AC. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):232-40 (76 ref.)
Medical management of animals with portosystemic shunts. Taboada J. **Semin Vet Med Surg (Small Anim)** 1990 May; 5(2):107-19 (104 ref.)
Enteral nutrition by tube. Armstrong PJ, et al. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):237-75 (109 ref.)
Critical care cardiology. Fox PR. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1095-125 (102 ref.)
Fluid and electrolyte balance in critical patients. Garvey MS. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1021-57 (60 ref.)
Ulcerative keratitis. Kern TJ. **Vet Clin North Am Small Anim Pract** 1990 May; 20(3):643-66 (39 ref.)
Persistent corneal ulcers. What to do when ulcers won't heal. Kirschner SE. **Vet Clin North Am Small Anim Pract** 1990 May;20(3):627-42 (32 ref.)
Biologic response modifiers: the future of cancer therapy? MacEwen EG. **Vet Clin North Am Small Anim Pract** 1990 Jul;20(4):1055-73 (78 ref.)
Brain hypoperfusion post-resuscitation. Muir WW. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1151-66 (56 ref.)
Parenteral nutritional support in the small animal patient. Remillard RL, et al. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1287-306 (45 ref.)
Cardiopulmonary resuscitation: current recommendations. Robello CD, et al. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1127-49 (28 ref.)
The treatment of multicentric canine lymphoma. Rosenthal RC. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):1093-104 (73 ref.)
Management of canine appendicular osteosarcoma. Straw RC, et al. **Vet Clin North Am Small Anim Pract** 1990 Jul; 20(4):1141-61 (65 ref.)
Effect of immunotherapy on the serum concentrations of allergen-specific IgG antibodies in dog sera. Hites MJ, et al. **Vet Immunol Immunopathol** 1989 Aug;22(1):39-51
Tracheal foreign body in a German shepherd dog. Davies CM. **Vet Rec** 1989 Dec 23-30;125(26-27):648-9
Local hyperthermia and canine tumours [letter] Dobson JM, et al. **Vet Rec** 1989 Aug 12;125(7):162
Technique for pacemaker placement in private practice: a case report. Long RD. **Vet Rec** 1989 Sep 23;125(13):353
Canine primary (idiopathic) seborrhoea [letter] Thoday KL. **Vet Rec** 1990 Jul 14;127(2):47
Comparison of two orthodontical techniques for the correction of lingual deviation of upper incisors in the dog. Sanroman F, et al. **Zentralbl Veterinarmed [A]** 1989 Nov; 36(9):712-8
[Adams-Stokes syndrome and therapy with pacemaker implantation in a dog] Bohn FK, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jan 1;103(1):22-32 (Eng. Abstr.) **(Ger)**
[Small intestinal ileus in the dog and cat--catamnestic observations of 704 patients] Böhmer E, et al. **Tierarztl Prax** 1990 Apr;18(2):171-83 (Eng. Abstr.) **(Ger)**

TRANSMISSION

Experimental transmission of a granulocytic form of the tribe Ehrlichieae by Dermacentor variabilis and Amblyomma americanum to dogs. Anziani OS, et al. **Am J Vet Res** 1990 Jun;51(6):929-31
The relative importance of various mosquitoes for the transmission and control of dog heartworm in south-eastern Australia. Russell RC. **Aust Vet J** 1990 May; 67(5):191-2
Relative suitability of Aedes albopictus and Aedes aegypti in North Carolina to support development of Dirofilaria immitis. Apperson CS, et al. **J Am Mosq Control Assoc** 1989 Sep;5(3):377-82
Brucella abortus infection in 14 farm dogs. Forbes LB. **J Am Vet Med Assoc** 1990 Mar 15;196(6):911-6
Size of blood meals of Aedes albopictus and Culex tritaeniorhynchus (Diptera: Culicidae) feeding on an unrestrained dog infected with Dirofilaria immitis (Spirurida: Filariidae). Konishi E. **J Med Entomol** 1989 Nov;26(6):535-8
Canine-associated zoonoses: an unacceptable hazard to human health. Cook GC. **Q J Med** 1989 Jan;70(261):5-26 (94 ref.)
Canine giardiasis in Sweden: no evidence of infectivity to man. Castor SB, et al. **Trans R Soc Trop Med Hyg** 1990 Mar-Apr;84(2):249-50
Infection of Japanese quail with Toxocara canis larvae and establishment of patent infection in pups. Pahari TK, et al. **Vet Parasitol** 1990 Apr;35(4):357-64
Angiostrongylus vasorum: transmission in south east England. Cobb MA, et al. **Vet Rec** 1990 May 26;126(21):529
[Transmission of visceral leishmaniasis with studies of dogs in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989; 3:41-50 (Eng. Abstr.) **(Ger)**

URINE

Comparison of urinary protein concentration and protein/creatinine ratio vs routine microscopy in urinalysis of dogs: 500 cases (1987-1988). Fettman MJ. **J Am Vet Med Assoc** 1989 Oct 1;195(7):972-6

DOGFISH see under **SHARKS**

DOGS

Distribution of material injected intramuscularly in dogs. Autefage A, et al. **Am J Vet Res** 1990 Jun;51(6):901-4
Identification and anatomic categorization of the vascular patterns to the pelvic limb muscles of dogs. Chambers JN, et al. **Am J Vet Res** 1990 Feb;51(2):305-13
Effects of collection methods and storage on the in vitro stability of canine plasma catecholamines. D'Alesandro MM, et al. **Am J Vet Res** 1990 Feb;51(2):257-9
Effects of flunixin and flunixin plus prednisone on the gastrointestinal tract of dogs. Dow SW, et al. **Am J Vet Res** 1990 Jul;51(7):1131-8
Hypermetabolic priming of canine neutrophils by 7-S nerve growth factor. Gruber DF, et al. **Am J Vet Res** 1990 Jun; 51(6):921-3
Orally administered clonidine as a secretagogue of growth hormone and as a thymotrophic agent in dogs of various ages. Morrison WB, et al. **Am J Vet Res** 1990 Jan; 51(1):65-70
Study of long-term survival after transsphenoidal hypophysectomy in clinically normal dogs. Niebauer GW, et al. **Am J Vet Res** 1990 Apr;51(4):677-81
Quantitative morphologic study of the pituitary and thyroid glands of dogs administered L-thyroxine. Panciera DL, et al. **Am J Vet Res** 1990 Jan;51(1):27-31
Potency of rapidly acting barbiturates in dogs, using inhibition of the laryngeal reflex as the end point. Turner DM, et al. **Am J Vet Res** 1990 Apr;51(4):595-7
Cardiovascular and respiratory effects of three rapidly acting barbiturates in dogs. Turner DM, et al. **Am J Vet Res** 1990 Apr;51(4):598-604
Quantitation of the hepatobiliary dynamics in clinically normal dogs by use of 99mTc-iminodiacetate excretory scintigraphy. van den Brom WE, et al. **Am J Vet Res** 1990 Feb;51(2):249-52
Postnatal ossification centers of the atlas and axis in miniature schnauzers. Watson AG, et al. **Am J Vet Res** 1990 Feb; 51(2):264-8
Successful treatment of acute head and neck dog bite wounds without antibiotics. Guy RJ, et al. **Ann Plast Surg** 1986 Jul;17(1):45-8
Dysgonic fermenter type 2 septicemia with purpura fulminans. Dermatologic features of a zoonosis acquired from household pets. Herbst JS, et al. **Arch Dermatol** 1989 Oct;125(10):1380-2
Public health aspects of stray dogs in Barrow, Alaska. Dalton LM, et al. **Arctic Med Res** 1988;47 Suppl 1:83-9
Animal bites and infection [letter] Thomas P. **Aust Fam Physician** 1990 Apr;19(4):596
Feeding schedules needed for pet foods [letter] Pigott RF. **Aust Vet J** 1989 Oct;66(10):suppl 338-9
The incidence of dog attacks on children, treated at a city hospital. Podberscek AL, et al. **Aust Vet J** 1990 Feb; 67(2):79-80
The Briard dog: a new animal model of congenital stationary night blindness. Narfström K, et al. **Br J Ophthalmol** 1989 Sep;73(9):750-6
Reconstruction of traumatic loss of vermilion and mucocutaneous junction of the lips. Srivastava S. **Br J Plast Surg** 1989 Sep;42(5):526-9
Social acknowledegments for children with disabilities: effects of service dogs. Mader B, et al. **Child Dev** 1989 Dec;60(6):1529-34
Strychnine poisoning due to therapeutic medicine [letter] Kulkarni ML, et al. **Indian Pediatr** 1989 Sep;26(9):963-4
Management of human and animal bite wounds. Goldstein EJ. **J Am Acad Dermatol** 1989 Dec;21(6):1275-9 (42 ref.)
Behavioral problems in old dogs: 26 cases (1984-1987). Chapman BL, et al. **J Am Vet Med Assoc** 1990 Mar 15; 196(6):944-6
Dog-bite statutes. Hannah HW. **J Am Vet Med Assoc** 1989 Oct 1;195(7):908-9
Concerned about euthanasia of healthy, homeless animals [letter] Olson PN. **J Am Vet Med Assoc** 1990 Jan 1; 196(1):10
Numerical analysis of electrophoretic protein patterns of Group EF-4 bacteria, predominantly from dog-bite wounds of humans. Holmes B, et al. **J Appl Bacteriol** 1990 Jan;68(1):81-91
The 'tooth' of the dog that bit him. Conlan DP. **J Bone Joint Surg [Br]** 1989 Nov;71(5):858
Perforating eye injuries caused by dog bites. Jones NP. **J R Soc Med** 1990 May;83(5):332-3
Reversal of medetomidine sedation by atipamezole in dogs. Vainio O, et al. **J Vet Pharmacol Ther** 1990 Mar;13(1):15-22
A method for long-term catheterization of various capacitance vessels in dogs. Béliveau L, et al. **Lab Anim Sci** 1990 Jan;40(1):97-100
Beware of the dog: meningitis in a splenectomised woman. Krol-van Straaten MJ, et al. **Neth J Med** 1990 Jun; 36(5-6):301-3
Non-invasive measurement of systemic arterial pressure by Finapres in anesthetized dogs. Tabaru H, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):427-30
An experimental trial on embryo transfer in the dog. Tsutsui T, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):797-800
Subacute Pasteurella osteomyelitis of the hand following dog bite. Desai SS, et al. **Orthopedics** 1990 Jun;13(6):653-6
Pasteurella pneumotropica: meningitis following a dog bite. Minton EJ. **Postgrad Med J** 1990 Feb;66(772):125-6
The lymphatic pathology of chronic Brugia pahangi infection in the dog. Snowden KF, et al. **Trans R Soc Trop Med Hyg** 1989 Sep-Oct;83(5):670-8
Ultrastructure and alkaline phosphatase activity of the dome epithelium of canine Peyer's patches. HogenEsch H, et al. **Vet Immunol Immunopathol** 1990 Feb;24(2):177-86
Histologic and histochemical changes in articular cartilages of immature beagle dogs dosed with difloxacin, a fluoroquinolone. Burkhardt JE, et al. **Vet Pathol** 1990 May; 27(3):162-70
Dog registration [letter] **Vet Rec** 1989 Dec 2;125(23):586
Dog registration [letter] [see comments] Henwood JK. **Vet Rec** 1989 Aug 26;125(9):244-5 Comment in: Vet Rec 1989 Sep 9;125(11):308.
'BSAVA manual of anaesthesia' [letter] Hilbery AD, et al. **Vet Rec** 1990 Jan 20;126(3):70
Puppy farms [letter] Jackson F. **Vet Rec** 1990 Jan 20;126(3):69
Dangerous dogs [letter] Knott CD. **Vet Rec** 1990 Jun 2; 126(22):562
Guide dogs and the profession. Turner T. **Vet Rec** 1989 Dec 23-30;125(26-27):635
Induction of anaesthesia in dogs and cats with propofol. Weaver BM, et al. **Vet Rec** 1990 Jun 23;126(25):617-20
Puppy farms [letter] Wilkins DB. **Vet Rec** 1990 Feb 3; 126(5):122
[The treatment of dog and cat bites (letter)] Houtman PM. **Ned Tijdschr Geneeskd** 1990 Jun 30;134(26):1273-4 **(Dut)**
[The treatment of dog and cat bites] Patka P, et al. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):995-8 (20 ref.) **(Dut)**
[Intramuscularly administered non-opiate anesthesia in dogs. A report on the use of ketamine/xylazine, tiletamine/zolazepam, ketamine/midazolam and metomidine] Hellebrekers LJ, et al. **Tijdschr Diergeneeskd** 1990 Jul 15;115(14):661-9 (Eng.

Abstr.) (Dut)
[Child aggression by dogs: a preliminary study of risk factors] Filiatre JC, et al. **Ann Pediatr (Paris)** 1990 Mar;37(3):162–6 (Eng. Abstr.) (Fre)
[Respiratory allergy and domestic animals. Survey in a sample of the general population] Charpin D, et al. **Rev Mal Respir** 1989;6(4):325–8 (Eng. Abstr.) (Fre)
[Fatal dog bite injuries] Pollak S, et al. **Beitr Gerichtl Med** 1989;47:487–95 (Eng. Abstr.) (Ger)
[Raising fighting dogs] Wegner W. **DTW Dtsch Tierarztl Wochenschr** 1990 Apr;97(4):168–71 (Eng. Abstr.) (Ger)
[Late results following avulsion injury of the shaft of the penis] Piza-Katzer H, et al. **Unfallchirurgie** 1989 Aug; 15(4):208–11 (Eng. Abstr.) (Ger)
[Our non-humanoid contemporaries of cardiovascular protective value] Leu HJ. **Vasa** 1990;19(2):174–5 (Ger)
[Experimental model of ischemic injury of the spinal cord after temporary occlusion of the thoracic artery in the dog] Sulla I, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):379–82 (Eng. Abstr.) (Ger)
[A case of reconstruction of the external nose] Vitiello F, et al. **Minerva Chir** 1990 Mar 31;45(6):433–6 (Eng. Abstr.) (Ita)

ABNORMALITIES

Three cases of aberrant right subclavian artery in the dog. Griffiths D. **Acta Vet Scand** 1989;30(3):355–7
Surgical correction of concomitant cranioventral abdominal wall, caudal sternal, diaphragmatic, and pericardial defects in young dogs. Bellah JR, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1722–6
Congenital malformation and variation of the lumbar vertebrae in a dog. Kirberger RM. **J S Afr Vet Assoc** 1989 Jun;60(2):111–2
A 6-month-old Doberman pinscher with ambiguous genitalia as a first case of X-chromosomal monosomy in the dog [letter; comment] Giger U, et al. **J Vet Intern Med** 1989 Oct–Dec;3(4):245 Comment on: J Vet Intern Med 1989 Apr–Jun;3(2):90–5.
Retinal cyclic GMP and AMP in rod-cone dysplasia: comparison of assays in fixed and unfixed retinal tissues. Acland GM, et al. **Ophthalmic Res** 1990;22(2):117–22
Surgical management of extrahepatic portosystemic shunts in the dog and cat. Butler LM, et al. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):127–33 (17 ref.)
Historical, physical examination, and clinicopathologic features of portosystemic vascular anomalies in the dog and cat. Center SA, et al. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):83–93 (34 ref.)
Liver function tests in the diagnosis of portosystemic vascular anomalies. Center SA. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):94–9 (24 ref.)
Angiographic results of intrahepatic portocaval shunt attenuation in three dogs. Martin RA, et al. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):134–41
Diagnostic imaging of portosystemic shunts. Moon ML. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):120–6 (23 ref.)
The anatomy and embryology of portosystemic shunts in dogs and cats. Payne JT, et al. **Semin Vet Med Surg (Small Anim)** 1990 May;5(2):76–82 (36 ref.)
Medical management of animals with portosystemic shunts. Taboada J. **Semin Vet Med Surg (Small Anim)** 1990 May; 5(2):107–19 (104 ref.)
Spleno-mesenteric-renal venous shunt in two dogs. Valentine RW, et al. **Vet Pathol** 1990 Jan;27(1):58–60
Corrective osteotomy for pes varus in the dachshund. Johnson SG, et al. **Vet Surg** 1989 Sep–Oct;18(5):373–9

ANATOMY & HISTOLOGY

Contralateral connections of the dog's frontal association cortex. Rajkowska G, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(4):141–51
The sensory projections to the frontal association cortex in the dog. Stepniewska I, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(6):299–310
Light and electron microscopy studies of the ulnar, saphenous, and caudal cutaneous sural nerves of the dog. Illanes O, et al. **Am J Anat** 1990 Feb;187(2):158–64
Anatomy of the orbital fasciae and the third eyelid in dogs. Constantinescu GM, et al. **Am J Vet Res** 1990 Feb; 51(2):260–3
Quantitative noninvasive assessment of liver size in clinically normal dogs. Godshalk CP, et al. **Am J Vet Res** 1990 Sep; 51(9):1421–6
Distribution of cholinergic and adrenergic nerve fibers in the lacrimal glands of dogs. Powell CC, et al. **Am J Vet Res** 1989 Dec;50(12):2084–8
Radiographic assessment of liver volume in dogs. van Bree H, et al. **Am J Vet Res** 1989 Sep;50(9):1613–5
X-ray-computed tomography, nephrotomography, and ultrasonography of the adrenal glands of healthy dogs. Voorhout G. **Am J Vet Res** 1990 Apr;51(4):625–31
Ultrasonographic-anatomic correlation and an imaging protocol of the normal canine kidney. Wood AK, et al. **Am J Vet Res** 1990 Jan;51(1):103–8
Ultrasonographic-anatomic correlation and imaging protocol for the spleen in anesthetized dogs. Wood AK, et al. **Am J Vet Res** 1990 Sep;51(9):1433–8
The thalamus of the dog: a tridimensional and cytoarchitectonic study. Salazar I, et al. **Anat Anz** 1989; 169(2):101–13
Motor fibers in the canine distal caudal cutaneous sural nerve—dual innervation of the hind limb plantar muscles. Cuddon PA, et al. **Anat Histol Embryol** 1989 Dec; 18(4):366–73
Vascular network in papillae of dog oral mucosa using corrosive resin casts with scanning electron microscopy. Kishi Y, et al. **Anat Rec** 1990 Apr;226(4):447–59
Anatomic distribution of autonomic neural tissue in the developing dog heart: I. Sympathetic innervation. Ursell PC, et al. **Anat Rec** 1990 Jan;226(1):71–80
The microangiographic pattern of the rotator cuff of the dog. Kujat R. **Arch Orthop Trauma Surg** 1990;109(2):68–71
The canine nucleus tractus solitarii: light microscopic analysis of subnuclear divisions. Estes ML, et al. **Brain Res Bull** 1989 Dec;23(6):509–17
An anatomical investigation of the nasal venous vascular bed in the dog. Lung MA, et al. **J Anat** 1989 Oct;166:113–9
The location of extrinsic efferent and afferent nerve cell bodies of the normal canine stomach. Hudson LC. **J Auton Nerv Syst** 1989 Oct;28(1):1–14
Some anatomical features of the periodontium of the deciduous and permanent dentition in the beagle dog. Berglundh T, et al. **J Comp Pathol** 1990 Apr;102(3):311–21
Fine structure of the filiform papilla of beagle dogs. Iwasaki S, et al. **J Morphol** 1989 Sep;201(3):235–42
Morphometric and anisotropic symmetries of the canine distal femur. Kuhn JL, et al. **J Orthop Res** 1990 Sep;8(5):776–80
The geometry of the adult canine proximal femur. Sumner DR Jr, et al. **J Orthop Res** 1990 Sep;8(5):671–7
Real-time ultrasonic imaging of the ovary and uterus of the dog. England GC, et al. **J Reprod Fertil Suppl** 1989; 39:91–100
Penile vascular system of the dog. An injection-corrosion and histological study. Ninomiya H, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):765–73
Do the cardiac glands exist? 5. The dog. Imai M, et al. **Okajimas Folia Anat Jpn** 1990 Mar;66(6):355–63
Calculation of body surface area from bodyweight [letter] Butterworth SJ. **Vet Rec** 1990 Mar 3;126(9):225
Ultrasonographic and histological appearance of the canine ovary. England GC, et al. **Vet Rec** 1989 Nov 25; 125(22):555–6
Bronchoalveolar lavage in dogs; analysis of proteins and respiratory cells. Mayer P, et al. **Zentralbl Veterinarmed [A]** 1990 Jun;37(5):392–9
Epinephrine enhanced positive contrast shoulder arthrography in the dog. van Bree H. **Zentralbl Veterinarmed [A]** 1989 Nov;36(9):687–91
Positive contrast arthrography of the dog's shoulder with meglumine-sodium diatrizoate. van Bree H, et al. **Zentralbl Veterinarmed [A]** 1989 Jul;36(6):421–30
An immunohistochemical study of canine tissues with vimentin, desmin, glial fibrillary acidic protein, and neurofilament antisera. Vos JH, et al. **Zentralbl Veterinarmed [A]** 1989 Oct;36(8):561–75
[Is there a structural principle of the myocardium?] Heine H. **Gegenbaurs Morphol Jahrb** 1989;135(3):463–74 (Eng. Abstr.) (Ger)
[Ultrasonic diagnosis in dogs and cats. 1. Manner of function, instruments, biological effects] Flückiger M. **Schweiz Arch Tierheilkd** 1990;132(5):275–82 (Eng. Abstr.) (Ger)
[Structure and topography of the pelvic lymph nodes in female dogs] Fed'ko EV. **Arkh Anat Gistol Embriol** 1990 Feb;98(2):74–9 (Eng. Abstr.) (Rus)
[Quantitative analysis of the bronchial tree structure in dogs and polar foxes] Shishkin GS, et al. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):47–9 (Eng. Abstr.) (Rus)
[Hepatoid circumanal exocrine glands of the dog] Shabadash SA, et al. **Dokl Akad Nauk SSSR** 1990;310(3):716–20 (Rus)
[The size and suitability of blood vessels for transplantation into the knee of the dog] Mikić Z, et al. **Acta Chir Iugosl** 1990;37 Suppl 1:19–23 (Eng. Abstr.) (Ser)

BLOOD

Chemiluminescence and chemotaxis assay of canine granulocytes: a methodological study. Trowald-Wigh G, et al. **Acta Vet Scand** 1990;31(1):79–86
Relationship between dietary protein concentration and serum trypsin-like immunoreactivity in dogs. Carro T, et al. **Am J Vet Res** 1989 Dec;50(12):2105–7
Transconjunctival oxygen index in healthy awake dogs. Faulkner JE, et al. **Am J Vet Res** 1989 Sep;50(9):1520–2
Effects of age, sex, and body size on serum concentrations of thyroid and adrenocortical hormones in dogs. Reimers TJ, et al. **Am J Vet Res** 1990 Mar;51(3):454–7
Serum disposition of exogenous progesterone after intramuscular administration in bitches. Scott-Moncrieff JC, et al. **Am J Vet Res** 1990 Jun;51(6):893–5
Influence of Ca/Na exchange and diamide on membrane partitioning of glyceraldehyde-3-phosphate dehydrogenase in dog red cells. Colclasure GC, et al. **Comp Biochem Physiol [A]** 1990;96(1):147–50
Thirteen-weeks subcutaneous treatment with oestradiol or an oestradiol/progesterone combination in beagle bitches. Attia MA. **DTW Dtsch Tierarztl Wochenschr** 1989 Sep; 96(8):399–408
Prevalence of antithyroglobulin antibodies detected by enzyme-linked immunosorbent assay of canine serum. Beale KM, et al. **J Am Vet Med Assoc** 1990 Mar 1; 196(5):745–8
Donation and typing of blood [letter] Carlin S. **J Am Vet Med Assoc** 1990 Jan 1;196(1):13
Blood donor programs [letter] Henness AM. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1190
Evaluation of an automated tabletop blood biochemical analyzer for the veterinary clinical pathology laboratory. Sallee S, et al. **J Am Vet Med Assoc** 1990 Jan 15; 196(2):307–12
Effect of dietary iron content on hematologic and other measures of iron adequacy in dogs. Weeks BR, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):749–53
Physiological and blood biochemical responses to submaximal treadmill exercise in Canaan dogs before, during and after training. Sneddon JC, et al. **J S Afr Vet Assoc** 1989 Jun;60(2):87–91
A simple method for measurement of the haemoglobin binding capacity of canine haptoglobin. Batchelor J, et al. **Lab Anim** 1989 Oct;23(4):365–9
Serum erythropoietin level in normal dogs. Ikeda T, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):877–8
Responses to sprint exercise in the greyhound: effects on haematology, serum biochemistry and muscle metabolites. Rose RJ, et al. **Res Vet Sci** 1989 Sep;47(2):212–8
Relationship between mitogen receptors in peripheral blood lymphocytes and blastogenic responses to mitogen. Tajima M, et al. **Res Vet Sci** 1990 Jan;48(1):1–5
Measurement of soluble fibrin in a variety of animal species. MacGregor I, et al. **Thromb Res** 1989 Sep 1;55(5):651–6
Blood lead values in dogs from a rural area (Champaign, IL in 1987). Ostrowski SR, et al. **Vet Hum Toxicol** 1990 Feb;32(1):40–2
Binding characteristics of ivermectin in plasma from collie dogs. Rohrer SP, et al. **Vet Res Commun** 1990;14(2):157–65
Evaluation of serum iso-amylase in the normal dog using an improved electrophoretic technique. Simpson JW, et al. **Vet Res Commun** 1989;13(6):441–50
[Pulse oximetry—a non-invasive method for direct and continuous monitoring of oxygen saturation and pulse rate—comparative studies with blood gas analysis and hemoreflectometry in the dog, swine and sheep] Erhardt W, et al. **Berl Munch Tierarztl Wochenschr** 1989 Sep 1; 102(9):289–92 (Eng. Abstr.) (Ger)
[Experiences with the QBC-V hematology system at the veterinary hospitals of Zurich and Bern] Meister D, et al. **Schweiz Arch Tierheilkd** 1990;132(5):261–6 (Eng. Abstr.) (Ger)
[The dry chemical system Kodak Ectachem DT 60. Working methods, performance and suitability for laboratory diagnosis in dogs and cats] Scholz U, et al. **Tierarztl Prax** 1989;17(3):327–37 (Eng. Abstr.) (Ger)
[Profile of hematological values in hybrid hairless dogs] Kimura T, et al. **Jikken Dobutsu** 1990 Jul;39(3):417–20 (Eng. Abstr.) (Jpn)

EMBRYOLOGY

Early morphogenesis of the canine lens capsule, tunica vasculosa lentis posterior, and anterior vitreous body. A transmission electron microscopic study. Boevé MH, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(6):589–94

GENETICS

Linkage between genes for coat colour and for blood plasma esterase in dogs. Arnold IC, et al. **Anim Genet** 1990; 21(2):149–51
Hypothalamo-pituitary-adrenal axis activity in nervous and normal pointer dogs. Klein EH, et al. **Biol Psychiatry** 1990 Apr 1;27(7):791–4
Molecular evolution of centromere-associated nucleotide sequences in two species of canids. Fanning TG. **Gene** 1989 Dec 28;85(2):559–63
Harlequin colour in the Great Dane dog. O'Sullivan N, et al. **Genetica** 1988–89;78(3):215–8
The inheritance of the piebald spotting pattern and its variation in Holstein-Friesian cattle and in Landseer-Newfoundland dogs. Pape H. **Genetica** 1990; 80(2):115–28
Inheritance of coat colour in the Anatolian shepherd dog. Robinson R. **Genetica** 1989;79(2):143–5
Canine DNA fingerprinting: can it identify breeds? [news] Templeton JW. **J Am Vet Med Assoc** 1990 May 1; 196(9):1357, 1359, 1365
Structure and expression of dog apolipoprotein A-I, E, and C-I mRNAs: implications for the evolution and functional constraints of apolipoprotein structure. Luo CC, et al. **J Lipid Res** 1989 Nov;30(11):1735–46
The involucrin genes of pig and dog: comparison of their segments of repeats with those of prosimians and higher primates. Tseng H, et al. **Mol Biol Evol** 1990 Jul; 7(4):293–302
Genetic relationships among dog breeds with special reference to Asian dog breeds studied by biochemical polymorphisms of blood proteins. Tanabe Y. **Prog Clin Biol Res** 1990;344:619–37

Restriction fragment length polymorphism analysis of canine class II major histocompatibility complex genes. Williamson P, et al. **Transplant Proc** 1989 Oct;21(5):3751–2

Restriction fragment length polymorphism analysis of class II genes and canine bone marrow transplantation: correlation with mixed lymphocyte reactivity. Williamson P, et al. **Transplant Proc** 1989 Oct;21(5):3824–5

GROWTH & DEVELOPMENT

Protein requirements of growing pups fed practical dry-type diets containing mixed-protein sources. Case LP, et al. **Am J Vet Res** 1990 May;51(5):808–12

Postnatal development of the photoreceptor inner segment of the retina in dogs. Miller WW, et al. **Am J Vet Res** 1989 Dec;50(12):2089–92

IMMUNOLOGY

Phagocytosis induced by yeast cells in canine granulocytes: a methodological study. Trowald-Wigh G, et al. **Acta Vet Scand** 1990;31(1):87–95

Influence of parental serum immunoglobulins on morbidity and mortality of beagles and their offspring. Shofer FS, et al. **Am J Vet Res** 1990 Feb;51(2):239–44

Normal phagocytic capacity of macrophages isolated from different canine organs. Portiansky EL, et al. **Anat Histol Embryol** 1989 Sep;18(3):199–204

Dog MHC class I antigens contain beta 2-microglobulin. van der Feltz MJ, et al. **Exp Clin Immunogenet** 1984;1(1):56–9

Allelic variation in the DR subregion of the canine major histocompatibility complex. Sarmiento UM, et al. **Immunogenetics** 1990;32(1):13–9

Nucleotide sequence of a dog DRB cDNA clone. Sarmiento UM, et al. **Immunogenetics** 1990;31(5–6):396–9

Nucleotide sequence of a dog class I cDNA clone. Sarmiento UM, et al. **Immunogenetics** 1990;31(5–6):400–4

Persistence of antibodies to Borrelia burgdorferi in dogs of New York and Connecticut. Magnarelli LA, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1064–8

Effects of non-steroidal anti-inflammatory drugs on canine neutrophil chemotaxis. Strøm H, et al. **J Vet Pharmacol Ther** 1990 Jun;13(2):186–91

RFLP analysis of DLA class I genes in the dog. Sarmiento UM, et al. **Tissue Antigens** 1989 Sep;34(3):158–63

Development and functional characterization of T cell lines from canine Peyer's patches. Hogenesch H, et al. **Vet Immunol Immunopathol** 1989 Nov 30;23(1–2):29–39

Natural cytotoxicity in the dog: description of two new allogeneic tumour targets. Holmes MA, et al. **Vet Immunol Immunopathol** 1989 Nov 30;23(1–2):161–70

Development of monoclonal antibodies against canine glomerular antigens. Krawiec DR, et al. **Vet Immunol Immunopathol** 1990 Mar;24(3):199–209

Identification of anti-idiotypic antibody in dogs. Schultz KT, et al. **Vet Immunol Immunopathol** 1989 Jul;21(3–4):227–37

[The occurrence of antibodies to Borrelia in dogs] Sýkora J, et al. **Vet Med (Praha)** 1990 Apr;35(4):251–6 (Eng. Abstr.) **(Cze)**

[Allergy to dogs: a difficult diagnosis] Le Sellin J. **Allerg Immunol (Paris)** 1990 May;22(5):197–8 **(Fre)**

[Serologic studies of listeriosis antibodies in dogs in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989;3:15–8 (Eng. Abstr.) **(Ger)**

[Antibodies in dogs to the virus of tick-borne encephalitis (early summer encephalomyelitis/tick-borne encephalitis) in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989; 3:11–4 (Eng. Abstr.) **(Ger)**

[Effect of maternally derived antibody levels on antibody responses to canine parvovirus, canine distemper virus and infectious canine hepatitis virus after vaccinations in beagle puppies] Iida H, et al. **Jikken Dobutsu** 1990 Jan;39(1):9–19 (Eng. Abstr.) **(Jpn)**

INJURIES

Possible applications of the "Manuflex" external fixing instrument in small animal surgery. Cziffer E, et al. **Acta Vet Hung** 1989;37(1–2):149–65

Fixation of cancellous bone and physeal fractures in dogs and cats. A comparison of the use of self-reinforced biodegradable devices to the use of metallic devices and external fixations. Axelson PB. **Acta Vet Scand** 1989; 30(3):259–65

Anaesthetic management of the traumatized small animal patient. Norman WM, et al. **Br Vet J** 1989 Sep–Oct; 145(5):410–25 (90 ref.)

Extrahepatic biliary tract rupture: evaluation of the relationship between the site of rupture and the cause of rupture in 15 dogs. Parchman MB, et al. **Cornell Vet** 1990 Jul;80(3):267–72

Use of flexible intramedullary rods for fixation of femoral fractures in eight dogs. Church EM, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):71–6

What is your diagnosis? Bilateral femoral fractures and avulsion of the urinary bladder. Love NE, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):137–8

Intraocular silicone prostheses in a dog and a horse with corneal lacerations. Riggs C, et al. **J Am Vet Med Assoc** 1990 Feb 15;196(4):617–9

Care of accidental wounds. Johnston DE. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):27–46 (13 ref.)

Spinal trauma in dogs and cats: a review of 51 cases. McKee WM. **Vet Rec** 1990 Mar 24;126(12):285–9

Static strength evaluation of sacroiliac fracture-separation repairs. Radasch RM, et al. **Vet Surg** 1990 Mar–Apr; 19(2):155–61

Mandibular fractures in the dog. A retrospective study of 157 cases. Umphlet RC, et al. **Vet Surg** 1990 Jul–Aug; 19(4):272–5

[Reconstruction of the bile ducts after complex injury of the gallbladder and the bile ducts after blunt abdominal trauma in a dog] Berther M, et al. **Schweiz Arch Tierheilkd** 1989; 131(8):479–84 (Eng. Abstr.) **(Ger)**

METABOLISM

Pharmacokinetics of norfloxacin in dogs after single intravenous and single and multiple oral administrations of the drug. Brown SA, et al. **Am J Vet Res** 1990 Jul; 51(7):1065–70

Effects of thyroid hormones on serum and cutaneous fatty acid concentrations in dogs. Campbell KL, et al. **Am J Vet Res** 1990 May;51(5):752–6

Influence of induced cholestasis on pharmacokinetics of digoxin and digitoxin in dogs. Miyazawa Y, et al. **Am J Vet Res** 1990 Apr;51(4):605–10

Serum and tissue cage fluid concentrations of ciprofloxacin after oral administration of the drug to healthy dogs. Walker RD, et al. **Am J Vet Res** 1990 Jun;51(6):896–900

Bioavailability of gentamicin in dogs after intramuscular or subcutaneous injections. Wilson RC, et al. **Am J Vet Res** 1989 Oct;50(10):1748–50

Calcium requirements for dogs [letter] Pigott RF. **Aust Vet J** 1990 Feb;67(2):N25

Comparison of reverse triiodothyronine distribution and metabolism in normal dogs and humans. Kaptein EM, et al. **Endocrinology** 1990 Apr;126(4):2003–14

Extrapolation of Th metabolism from beagle to humans [letter; comment] Dang HS, et al. **Health Phys** 1990 Jan; 58(1):107–9 Comment on: Health Phys 1988 Mar;54(3):293–9.

Pharmacologic features of butorphanol in dogs and cats. Hosgood G. **J Am Vet Med Assoc** 1990 Jan 1;196(1):135–6 (18 ref.)

Discussion of "Correlation of Plasma Concentration and Effects of Succinylcholine in Dogs" [letter; comment] Nigrovic V. **J Forensic Sci** 1990 Mar;35(2):225–8 Comment on: J Forensic Sci 1988 Mar;33(2):470–9.

Particle distribution in lung and lymph node tissues of rats and dogs and the migration of particle-containing alveolar cells in vitro. Mueller HL, et al. **J Toxicol Environ Health** 1990 Jul;30(3):141–65

Gastric retention of enteric-coated aspirin tablets in beagle dogs. Nap RC, et al. **J Vet Pharmacol Ther** 1990 Jun; 13(2):148–53

Pharmacokinetics of lithium in beagles. Rosenthal RC, et al. **J Vet Pharmacol Ther** 1989 Sep;12(3):330–3

Effects of age and breed on the phospholipid composition of canine surfactant. Clercx C, et al. **Lung** 1989;167(6):351–7

19-nortestosterone detection in canine plasma after intramuscular administration of 19-nortestosterone phenylpropionate. Macdougall DF, et al. **Res Vet Sci** 1989 Nov;47(3):399–401

Pharmacokinetics of pethidine administered intramuscularly and intravenously to dogs over 10 years old. Waterman AE, et al. **Res Vet Sci** 1990 Mar;48(2):245–8

The origins of canine serum amylases and lipase. Jacobs RM. **Vet Pathol** 1989 Nov;26(6):525–7

Hepatic copper concentrations in purebred and mixed-breed dogs. Thornburg LP, et al. **Vet Pathol** 1990 Mar; 27(2):81–88

The influence of the injection site on the bioavailability of ampicillin and amoxycillin in beagles. ten Voorde G, et al. **Vet Q** 1990 Apr;12(2):73–9

Effects of atropine and glycopyrrolate on esophageal, gastric, and tracheal pH in anesthetized dogs. Roush JK, et al. **Vet Surg** 1990 Jan–Feb;19(1):88–92

[Proteolytic activities of colonic mucosa] Hütter HJ, et al. **Z Med Lab Diagn** 1990;31(1):27–31 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Studies with canine sera that contain antibodies which recognize human immunodeficiency virus structural proteins. Strandstrom HV, et al. **Cancer Res** 1990 Sep 1; 50(17 Suppl):5628S–5630S

Paget's disease of bone and previous pet ownership in the United States: dogs exonerated. Siris ES, et al. **Int J Epidemiol** 1990 Jun;19(2):455–8

Live dogs and dead men [letter; comment] Somayajulu MV, et al. **J Assoc Physicians India** 1989 Sep;37(9):617 Comment on: J Assoc Physicians India 1987 May;35(5):393–4.

Frequency of Staphylococcus intermedius as human nasopharyngeal flora. Talan DA, et al. **J Clin Microbiol** 1989 Oct;27(10):2393

Capnocytophaga canimorsus (formerly DF-2) infections: review of the literature. Krol-van Straaten MJ, et al. **Neth J Med** 1990 Jun;36(5–6):304–9 (52 ref.)

Pasteurella multocida occurs in a high frequency in the saliva of pet dogs. Rollof J, et al. **Scand J Infect Dis** 1989; 21(5):583–4

Failures of postexposure rabies and other immunotherapies in developing countries [letter] Arya SC. **Vaccine** 1989 Aug;7(4):372

Species distribution of coagulase-positive staphylococci isolated from dogs. Woldehiwet Z, et al. **Vet Rec** 1990 May 12;126(19):485

PARASITOLOGY

The dog as natural reservoir host for Paragonimus uterobilateralis in Liberia, West Africa. Sachs R, et al. **Ann Trop Med Parasitol** 1990 Feb;84(1):101–2

Strongyloides stercoralis: loss of ability to disseminate after repeated passage in laboratory beagles. Genta RM. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):539–41

Leishmania infantum MON-98 isolated from dogs in El Agamy, Egypt. Shetata M, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):227–8

[Transmission of visceral leishmaniasis with studies of dogs in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989; 3:41–50 (Eng. Abstr.) **(Ger)**

[Pentatrichomonas hominis from beagle dogs—detection method, characteristics and route of infection] Fukushima T, et al. **Jikken Dobutsu** 1990 Apr;39(2):187–92 (Eng. Abstr.) **(Jpn)**

[Intestinal parasitosis of the canine population in the principate of Asturias] Vázquez Valdés F, et al. **Rev Sanid Hig Publica (Madr)** 1989 May–Jun;63(5–6):49–61 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Clinical evaluation of medetomidine, a novel sedative and analgesic drug for dogs and cats. Vähä-Vahe T. **Acta Vet Scand** 1989;30(3):267–73

Cardiovascular and respiratory effects of medetomidine in dogs and influence of anticholinergics. Vainio O, et al. **Acta Vet Scand** 1989;30(4):401–8

The atrioventricular conduction tissue of the dog. Histochemical properties; influence of electric shock. Isaacson R, et al. **Am Heart J** 1968 Feb;75(2):206–14

Variations in blood supply allocations for quadrupedal and for bipedal posture and locomotion. Abitbol MM. **Am J Phys Anthropol** 1989 Oct;80(2):239–58

Amplitude and latency characteristics of spinal cord motor-evoked potentials in dogs. Cook JR Jr, et al. **Am J Vet Res** 1990 Sep;51(9):1340–4

Naloxone reversal of oxymorphone effects in dogs. Copland VS, et al. **Am J Vet Res** 1989 Nov;50(11):1854–8

Cardiovascular effects of vasopressors in halothane-anesthetized dogs before and after hemorrhage. Curtis MB, et al. **Am J Vet Res** 1989 Nov;50(11):1859–65

Cardiovascular effects of vasopressors in isoflurane-anesthetized dogs before and after hemorrhage. Curtis MB, et al. **Am J Vet Res** 1989 Nov;50(11):1866–71

Rotational strength of double-pinning techniques in repair of transverse fractures in femurs of dogs. Dallman MJ, et al. **Am J Vet Res** 1990 Jan;51(1):123–7

Use of conjunctival oxygen index for evaluation of cardiac output in dogs. Faulkner JE, et al. **Am J Vet Res** 1989 Sep;50(9):1516–9

Atrial fibrillation in halothane- and isoflurane-anesthetized dogs. Freeman LC, et al. **Am J Vet Res** 1990 Jan; 51(1):174–7

Cardiovascular effects of butorphanol in halothane-anesthetized dogs. Greene SA, et al. **Am J Vet Res** 1990 Aug;51(8):1276–9

Adaptation of human oscillometric blood pressure monitors for use in dogs. Hunter JS Jr, et al. **Am J Vet Res** 1990 Sep;51(9):1439–42

Effects of single intravenously administered doses of dexamethasone on response to the adrenocorticotropic hormone stimulation test in dogs. Kemppainen RJ, et al. **Am J Vet Res** 1989 Nov;50(11):1914–7

Transretinal mass receptor potentials recorded from the canine retina in vitro. Millichamp NJ, et al. **Am J Vet Res** 1989 Oct;50(10):1710–4

Thyroid function tests in euthyroid dogs treated with L-thyroxine. Panciera DL, et al. **Am J Vet Res** 1990 Jan; 51(1):22–6

Waveform analysis and reproducibility of visual-evoked potentials in dogs. Sims MH, et al. **Am J Vet Res** 1989 Nov;50(11):1823–8

Comparison of left ventricular ejection fractions determined in healthy anesthetized dogs by echocardiography and gated equilibrium radionuclide ventriculography. Sisson DD, et al. **Am J Vet Res** 1989 Nov;50(11):1840–7

Maturation of spinal-evoked potentials to tibial and ulnar nerve stimulation in clinically normal dogs. Steiss JE, et al. **Am J Vet Res** 1990 Sep;51(9):1427–32

Continuous electromyographic recordings of pharyngeal muscle activity in normal and previously denervated muscles in dogs. Venker-van Haagen AJ, et al. **Am J Vet Res** 1989 Oct;50(10):1725–8

Atrial natriuretic factor-induced systemic vasoconstriction in conscious dogs, rats, and monkeys. Shen YT, et al. **Circ Res** 1990 Mar;66(3):647–61

Terminal insufficiency in adrenalectomized dogs maintained for three years on substitution therapy and the apparent absence of accessory cortical tissue in this species. Swingle WW, et al. **Endocrinology** 1967 Aug;81(2):406–8

Curbing vicious dogs: breeds hounded by proposed ordinances [news] Kahler S. **J Am Vet Med Assoc** 1990 May 1;196(9):1358–9, 1365

Impedance cardiography by use of a spot-electrode array to track changes in cardiac output in anesthetized dogs. Kiesler TW, et al. **J Am Vet Med Assoc** 1990 Jun 1;

196(11):1804–10
Effect of otic medications containing glucocorticoids on liver function test results in healthy dogs. Meyer DJ, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):743–4
Interactions between jaw–muscle recruitment and jaw–joint forces in Canis familiaris. Dessem D. **J Anat** 1989 Jun; 164:101–21
Geometry and kinematics of dog ribs. Margulies SS, et al. **J Appl Physiol** 1989 Aug;67(2):707–12
Veterinary oncology [letter; comment] Hayes HM. **J Natl Cancer Inst** 1990 Jun 6;82(11):973 Comment on: J Natl Cancer Inst 1989 Dec 20;81(24):1859–61.
Duodenal bulb control of the flow rate of digesta in the fasted and fed dog. Malbert CH, et al. **J Physiol (Lond)** 1989 Feb;409:371–84
Dog and cat reproduction, contraception and artificial insemination. Proceedings of the First International Symposium on Canine and Feline Reproduction. Dublin, Ireland, July 1–2, 1988. **J Reprod Fertil Suppl** 1989;39:1–323
Effect of duration of PMSG treatment on induction of oestrus, pregnancy rates and the complications of hyper–oestrogenism in dogs. Arnold S, et al. **J Reprod Fertil Suppl** 1989;39:115–22
Induction of ovulation in bitches with pulsatile or continuous infusion of GnRH. Cain JL, et al. **J Reprod Fertil Suppl** 1989;39:143–7
Induction of fertile oestrus in anoestrous dogs by constant infusion of GnRH agonist. Concannon PW. **J Reprod Fertil Suppl** 1989;39:149–60
Biology and endocrinology of ovulation, pregnancy and parturition in the dog. Concannon PW, et al. **J Reprod Fertil Suppl** 1989;39:3–25 (119 ref.)
Structural aspects of luteal function and regression in the ovary of the domestic dog. Dore MA. **J Reprod Fertil Suppl** 1989;39:41–53
The use of hormones, especially progestagens, to control oestrus in bitches. Evans JM, et al. **J Reprod Fertil Suppl** 1989;39:163–73 (34 ref.)
Factors influencing the success rate of artificial insemination with frozen semen in the dog. Farstad W, et al. **J Reprod Fertil Suppl** 1989;39:289–92
Insemination of beagle bitches with frozen semen. Ferguson JM, et al. **J Reprod Fertil Suppl** 1989;39:293–8
Immunological approaches to contraception in dogs. Gonzalez A, et al. **J Reprod Fertil Suppl** 1989;39:189–98 (45 ref.)
Ovulation detection and timing of insemination based on hormone concentrations, vaginal cytology and the endoscopic appearance of the vagina in domestic bitches. Jeffcoate IA, et al. **J Reprod Fertil Suppl** 1989;39:277–87
Effects on pseudopregnancy, pregnancy and interoestrous intervals of pharmacological suppression of prolactin secretion in female dogs and cats. Jöchle W, et al. **J Reprod Fertil Suppl** 1989;39:199–207
Efficacy of oral epostane administration to terminate pregnancy in mated laboratory bitches. Keister DM, et al. **J Reprod Fertil Suppl** 1989;39:241–9
Termination of pregnancy in bitches by administration of prostaglandin F–2 alpha. Lein DH, et al. **J Reprod Fertil Suppl** 1989;39:231–40 (40 ref.)
Fertility in dogs in relation to semen quality and the time and site of insemination with fresh and frozen semen. Linde–Forsberg C, et al. **J Reprod Fertil Suppl** 1989; 39:299–310
Endocrine regulation of the corpus luteum of the bitch as a potential target for altering fertility. Olson PN, et al. **J Reprod Fertil Suppl** 1989;39:27–40 (99 ref.)
Gonadotrophic control of follicular development and the use of exogenous gonadotrophins for induction of oestrus and ovulation in the bitch. Shille VM, et al. **J Reprod Fertil Suppl** 1989;39:103–13
Gamete physiology and timing of ovulation and fertilization in dogs. Tsutsui T. **J Reprod Fertil Suppl** 1989;39:269–75
Physiological aspects of pregnancy and parturition in dogs. van der Weyden GC, et al. **J Reprod Fertil Suppl** 1989; 39:211–24
Use of potent LHRH analogues for chronic contraception and pregnancy termination in dogs. Vickery BH, et al. **J Reprod Fertil Suppl** 1989;39:175–87
Partial masking of the canine electroretinogram by oscillatory potentials. The problem of frequency bandwidth. Sims MH. **J Vet Intern Med** 1990 Jan–Feb;4(1):40–2
Visual evoked potentials in the clinically normal dog. Strain GM, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):222–5
The effects of jingsongling, a xylazine analog, on mean arterial blood pressure and heart rate in dogs—influences of yohimbine, tolazoline, prazosin, and atropine. Hsu WH, et al. **J Vet Pharmacol Ther** 1989 Sep;12(3):283–8
The clinical effectiveness of atipamezole as a medetomidine antagonist in the dog. Vähä–Vahe AT. **J Vet Pharmacol Ther** 1990 Jun;13(2):198–205
Circadian rhythm of serum testosterone levels in male beagle dogs—effects of lighting time zone. Fukuda S. **Jikken Dobutsu** 1990 Jan;39(1):65–8
Adrenal cortical response in clinically normal dogs before and after adaptation to a housing environment. Garnier F, et al. **Lab Anim** 1990 Jan;24(1):40–3
The effect of haemolysis on certain canine serum chemistry parameters. Leard BL, et al. **Lab Anim** 1990 Jan;24(1):32–5
Oral KCl dietary supplement extends survivability of dogs with Heidenhain pouch gastric fistulas. Fernandez JA, et al. **Lab Anim Sci** 1989 Nov;39(6):587–90
Biogenic amines distribution in the brain of nervous and normal pointer dogs. A genetic animal model of anxiety. Gurguis GN, et al. **Neuropsychopharmacology** 1990 Aug; 3(4):297–303
Determination of blood volume in dogs using an enriched stable isotope 50Cr. Kunugiyama I, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):855–60
Effects of PGF2 alpha–analogue administration during the luteal phase on the next estrous cycle in the bitch. Tsutsui T, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):809–11
Orbeli's experimental work on color discrimination in dogs. Windholz G. **Pavlov J Biol Sci** 1989 Oct–Dec;24(4):133–7
Reproduction in the dog: reflections on past neglect and its consequences for society. Jöchle W. **Perspect Biol Med** 1989 Autumn;33(1):66–9 (20 ref.)
Effect of posture and anaesthesia on the distribution of pulmonary perfusion and lung configuration in beagle dogs. Clercx C, et al. **Res Vet Sci** 1989 Nov;47(3):359–66
Effects of amitraz on nerve conduction and neuromuscular transmission in anaesthetised dogs. Cullen LK, et al. **Res Vet Sci** 1990 Mar;48(2):162–4
An investigation into the origin of the first fraction of the canine ejaculate. England GC, et al. **Res Vet Sci** 1990 Jul; 49(1):66–70
Urethral pressure profilometry in the anaesthetised bitch: a comparison between double and single sensor recording. Holt PE. **Res Vet Sci** 1989 Nov;47(3):346–9
Reversal of atracurium neuromuscular block with neostigmine in the dog. Jones RS. **Res Vet Sci** 1990 Jan; 48(1):96–8
Radionuclide angiocardiography in the normal dog: first–pass studies. van den Brom WE, et al. **Res Vet Sci** 1989 Nov; 47(3):327–32
Radionuclide angiocardiography in the normal dog: equilibrium studies. van den Brom WE, et al. **Res Vet Sci** 1989 Nov;47(3):333–7
Canine duodenal mucosal protection. Lawson HH, et al. **S Afr J Surg** 1989 Sep;27(4):129–31
Action and interaction of respiratory muscles in dogs. Decramer M. **Verh K Acad Geneeskd Belg** 1990; 52(2):141–201 (79 ref.)
Cytology of the canine reproductive system. Wright PJ, et al. **Vet Clin North Am Small Anim Pract** 1989 Sep; 19(5):851–74 (57 ref.)
Effects of chloramphenicol, cimetidine and phenobarbital on and tolerance to xylazine–ketamine anesthesia in dogs. Nossaman BC, et al. **Vet Hum Toxicol** 1990 Jun;32(3):216–9
Behavioural consultants [letter] Cheetham K. **Vet Rec** 1989 Sep 30;125(14):382
Effects of general anaesthesia on static respiratory compliance in dogs. Corcoran BM, et al. **Vet Rec** 1989 Oct 28;125(18):450–3
Diuresis following medetomidine [letter] Crighton M. **Vet Rec** 1990 Feb 24;126(8):201
Variability of the time of calculated LH release in 218 canine pregnancies. England GC, et al. **Vet Rec** 1989 Dec 16; 125(25):624–5
Seminal characteristics and fertility in dogs. England GC, et al. **Vet Rec** 1989 Oct 7;125(15):399
Post prandial and cholecystokinin–induced emptying of the gall bladder in dogs. Rothuizen J, et al. **Vet Rec** 1990 May 19;126(20):505–7
Dangerous dogs [letter] Stockman MJ. **Vet Rec** 1990 Jul 7; 127(1):23
Timing the mating of dogs on the basis of blood progesterone concentration. van Haaften B, et al. **Vet Rec** 1989 Nov 18;125(21):524–6
Sensory nerve conduction velocities in the cutaneous afferents of the ulnar and peroneal nerves of the dog: tissue temperature–dependent reference ranges. Miyamoto A, et al. **Vet Res Commun** 1990;14(2):147–56
Hemodynamic effects of intravenous midazolam–xylazine–butorphanol in dogs. Gross ME, et al. **Vet Surg** 1990 Mar–Apr;19(2):173–80
Evaluation of three midazolam–xylazine mixtures. Preliminary trials in dogs. Tranquilli WJ, et al. **Vet Surg** 1990 Mar–Apr;19(2):168–72
Studies on lorazepam as a premedicant for thiopental anaesthesia in the dog. Singh K, et al. **Zentralbl Veterinarmed [A]** 1989 Dec;36(10):750–4
Haloperidol as a pre–medicant for thiopental anaesthesia in the dog. Sobti VK, et al. **Zentralbl Veterinarmed [A]** 1990 Apr;37(3):170–3
[The optimal service period in bitches] van Haaften B. **Tijdschr Diergeneeskd** 1989 Nov 15;114(22):1149–53 (Eng. Abstr.) (Dut)
[Limb vasodilation provoked by stimulation of the carotid sinus. Importance of histaminergy in the dog] Parrot JL, et al. **J Physiol (Paris)** 1988–89;83(4):293–9 (Eng. Abstr.) (Fre)
[Anticholinergic medication in the dog before and during anesthesia] Erhardt W, et al. **Berl Munch Tierarztl Wochenschr** 1990 Feb 1;103(2):42–9 (Eng. Abstr.) (Ger)
[Changes in the heart beat of puppies in the first twelve weeks of life] Trautvetter E, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jul 1;103(7):229–32 (Eng. Abstr.) (Ger)
[Behavior of dogs] Feddersen–Petersen D. **DTW Dtsch Tierarztl Wochenschr** 1990 Jun;97(6):231–6 (Eng. Abstr.) (Ger)
[The evaluation of dog raising conditions] Althaus T. **Schweiz Arch Tierheilkd** 1989;131(7):423–31 (Eng. Abstr.) (Ger)
[Problems of species specificity in toxicity evaluation. 2. Dogs] Watanabe M. **J Toxicol Sci** 1989 Dec;14 Suppl 3:32–5 (Jpn)

PSYCHOLOGY

Prevention and amelioration of stress and consequences of interaction between children and dogs. Riegger MH, et al. **J Am Vet Med Assoc** 1990 Jun 1;196(11):1781–5
Dangerous dogs [letter] Edmond WB. **Vet Rec** 1990 Jun 30; 126(26):650
Dangerous dogs [letter] Walton I. **Vet Rec** 1990 Jun 16; 126(24):610

SURGERY

Serum amylase and lipase activities after exploratory laparotomy in dogs. Bellah JR, et al. **Am J Vet Res** 1989 Sep;50(9):1638–41
Duration of etomidate–induced adrenocortical suppression during surgery in dogs. Dodam JR, et al. **Am J Vet Res** 1990 May;51(5):786–8
Alternative approaches to veterinary surgical training [letter] Carbone L. **J Am Vet Med Assoc** 1990 Jun 15; 196(12):1907–8
Continuing dialogue on use of live dogs in student surgery [letter] Fish RE. **J Am Vet Med Assoc** 1990 Jun 15; 196(12):1905–7
Ear trimming in dogs [letter] Jacobs FS. **J Am Vet Med Assoc** 1990 Mar 1;196(5):679–80
Antebrachial metacarpal arthrodesis for fusion of deranged carpal joints in two dogs. Keller WG, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1382–4
Complications of transposition of the fibular head for stabilization of the cranial cruciate–deficient stifle in dogs: 80 cases (1982–1986). Mullen HS, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1267–71
Preputial reconstruction in a dog. Smith MM, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1493–6
Comparison of renal biopsy techniques in dogs. Wise LA, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):935–9
Complications of ovarian autotransplantation in bitches. Davies NL. **J S Afr Vet Assoc** 1989 Sep;60(3):145
Percutaneous endoscopic gastrostomy. A retrospective study of 54 clinical cases in dogs and cats. Armstrong PJ, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):202–6
Plastic and reconstructive surgery. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):1–234
Tissue expanders. Johnston DE. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):227–34 (18 ref.)
Free skin flap transfer by microvascular anastomosis. Miller CW. **Vet Clin North Am Small Anim Pract** 1990 Jan; 20(1):189–99 (15 ref.)
Reconstructive surgery of the lips and cheek. Pavletic MM. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):201–26 (4 ref.)
Skin flaps in reconstructive surgery. Pavletic MM. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):81–103 (16 ref.)
Axial pattern flaps in small animal practice. Pavletic MM. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):105–25 (11 ref.)
Introduction to myocutaneous and muscle flaps. Pavletic MM. **Vet Clin North Am Small Anim Pract** 1990 Jan; 20(1):127–46 (16 ref.)
Mesh skin grafting. Pope ER. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):177–87 (11 ref.)
Skin grafts. Swaim SF. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):147–75 (54 ref.)
Hysterectomy during the luteal period in dogs chronically treated with bromocriptine. Okkens AC, et al. **Vet Q** 1989 Oct;11(4):254–6
Tail docking [letter] Brown SP. **Vet Rec** 1990 Jan 20; 126(3):69
Tail docking [letter] [see comments] Dean S. **Vet Rec** 1990 Mar 24;126(12):296 Comment in: Vet Rec 1990 Mar 31;126(13):317–8. Comment in: Vet Rec 1990 Apr 28;126(17):442.
Tail docking [letter; comment] Evans JM, et al. **Vet Rec** 1990 Mar 3;126(9):224 Comment on: Vet Rec 1990 Feb 17;126(7):175.
Dog registration [letter; comment] Harcourt–Brown F. **Vet Rec** 1989 Sep 9;125(11):308 Comment on: Vet Rec 1989 Aug 26;125(9):244–5.
Tail docking [letter] Whitaker DA. **Vet Rec** 1990 Jul 28; 127(4):95–6
Microneurovascular free digital pad transfer in the dog. Basher AW, et al. **Vet Surg** 1990 May–Jun;19(3):226–31
Ventral rhinotomy in the dog and cat. Holmberg DL, et al. **Vet Surg** 1989 Nov–Dec;18(6):446–9
System behavior of commonly used cranial cruciate ligament reconstruction autografts. Johnson SG, et al. **Vet Surg** 1989 Nov–Dec;18(6):459–65
Esophageal replacement in the dog by microvascular colon transfer. Kuzma AB, et al. **Vet Surg** 1989 Nov–Dec; 18(6):439–45
Hepatic lobectomy in the dog. A comparison of stapling and ligation techniques. Lewis DD, et al. **Vet Surg** 1990

May-Jun;19(3):221-5
Comparison of three skin preparation techniques in the dog. Part 1: Experimental trial. Osuna DJ, et al. **Vet Surg** 1990 Jan-Feb;19(1):14-9
Comparison of three skin preparation techniques. Part 2: Clinical trial in 100 dogs. Osuna DJ, et al. **Vet Surg** 1990 Jan-Feb;19(1):20-3
Cystotomy closure. A comparison of the strength of appositional and inverting suture patterns. Radasch RM, et al. **Vet Surg** 1990 Jul-Aug;19(4):283-8
Effects of plate luting on cortical vascularity and development of cortical porosity in canine femurs. Roush JK, et al. **Vet Surg** 1990 May-Jun;19(3):208-14
Intraoperative monitoring of ischiatic nerve function with sensory evoked potentials. Thompson SE, et al. **Vet Surg** 1990 Jul-Aug;19(4):276-82
[Changes in the behavior of dogs after castration] Heidenberger E, et al. **Tierarztl Prax** 1990 Feb;18(1):69-75 (Eng. Abstr.) (Ger)
[Comparative study of two different types of dental implants in dogs. Experimental study] Sanromán F, et al. **Zentralbl Veterinarmed [A]** 1990 Mar;37(2):138-47 (Eng. Abstr.) (Spa)

URINE

Acute response of urine pH following ammonium chloride administration to dogs. Shaw DH. **Am J Vet Res** 1989 Nov; 50(11):1829-30
The renal excretion of pethidine administered postoperatively to male dogs. Kalthum W, et al. **Br Vet J** 1990 May-Jun; 146(3):243-8
Radioreceptor assay and radioimmunoassay of triazolam in urine samples from racing greyhounds. Burnett JE, et al. **Forensic Sci Int** 1989 Oct-Nov;43(2):199-205
Rapid extraction and determination of xylazine in greyhound urine using high-performance liquid chromatography. Moore CM, et al. **J Chromatogr** 1989 Jul 21;491(2):519-24
Solid-phase cation exchange extraction of basic drugs from the urine of racing greyhounds. Moore CM. **J Forensic Sci Soc** 1990 May-Jun;30(3):123-9
Urinalysis and associated laboratory procedures. Brobst D. **Vet Clin North Am Small Anim Pract** 1989 Sep;19(5):929-49 (22 ref.)

DOLICHOL

Polyprenols and dolichols. **Chem Phys Lipids** 1989 Nov; 51(3-4):191-284

ANALYSIS

Studies on the polyisoprenoid composition in hepatocellular carcinomas and its correlation with their differentiation. Eggens I, et al. **APMIS** 1990 Jun;98(6):535-42

BLOOD

Effect of alcohol on blood dolichol concentration. Roine RP, et al. **Alcoholism (N Y)** 1989 Aug;13(4):519-22
Age-associated decrease of total dolichol in human serum [letter] Sakakihara Y, et al. **Clin Chim Acta** 1989 Oct 16; 184(3):333-4
Elevated levels of serum dolichol in aspartylglucosaminuria. Salaspuro M, et al. **Life Sci** 1990;47(7):627-32

ISOLATION & PURIFICATION

A rapid procedure for the separation and analysis of metabolites of the sterol and dolichol pathways. Keller RK, et al. **Chem Phys Lipids** 1989 Nov;51(3-4):261-7
Biosynthesis of dolichol by rat liver peroxisomes. Appelkvist EL, et al. **Eur J Biochem** 1989 Nov 20;185(3):503-9

METABOLISM

Characterization of the submitochondrial compartments: study of the site of synthesis of dolichol and dolichol-linked sugars. Ardail D, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1009-17
Phosphorylated dolichols in aging. Pullarkat RK, et al. **Biochem J** 1990 Feb 1;265(3):891-4
High-mannose dolichol-linked oligosaccharides in infantile ceroid-lipofuscinosis. Hall NA, et al. **Biochem Soc Trans** 1989 Dec;17(6):1032-3
Dolichol kinase activity: a key factor in the control of N-glycosylation in inner mitochondrial membranes. Ardail D, et al. **Biochim Biophys Acta** 1990 May 9;1024(1):131-8
Abolition of mevinolin-induced growth inhibition in human fibroblasts following transformation by simian virus 40. Larsson O, et al. **Cancer Res** 1989 Oct 15;49(20):5605-10
Membrane properties of dolichol in different age groups of mice. Wood WG, et al. **Chem Phys Lipids** 1989 Nov; 51(3-4):219-26
Rates of cholesterol, ubiquinone, dolichol and dolichyl-P biosynthesis in rat brain slices. Andersson M, et al. **FEBS Lett** 1990 Aug 20;269(1):15-8
Comparative study of the N-glycoprotein synthesis through dolichol intermediates in mitochondria, Golgi apparatus-rich fraction and endoplasmic reticulum-rich fraction. Levrat C, et al. **Int J Biochem** 1990;22(3):287-93
Studies on the biosynthesis of polyisoprenols, cholesterol and ubiquinone in highly differentiated human hepatomas. Eggens I, et al. **J Exp Pathol (Oxford)** 1990 Apr; 71(2):219-32
Dolichol phosphorylation occurs via a CTP-dependent reaction in Artemia larvae. Horst MN. **J Exp Zool** 1989 Oct;252(1):16-24
Lec9 CHO glycosylation mutants are defective in the synthesis of dolichol. Rosenwald AG, et al. **J Lipid Res** 1990 Mar;31(3):523-33
Separation of brain dolichol kinase from endogenous activating factors: evidence that phospholipid enhances the interaction between enzyme and dolichol. Genain CP, et al. **J Neurochem** 1990 Mar;54(3):855-62
Discharge of newly-synthesized dolichol and ubiquinone with lipoproteins to rat liver perfusate and to the bile. Elmberger PG, et al. **Lipids** 1989 Nov;24(11):919-30
Uptake and metabolism of dolichol and cholesterol in perfused rat liver. Kalén A, et al. **Lipids** 1990 Feb; 25(2):93-9
Reduced mannose incorporation into GDP-mannose and dolichol-linked intermediates of N-glycosylation in hamster liver during vitamin A deficiency. Rimoldi D, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):129-40
A 13-amino acid peptide in three yeast glycosyltransferases may be involved in dolichol recognition. Albright CF, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7366-9

PHARMACOKINETICS

Subcellular compartmentation of dolichol taken up by mouse leukemia cells. Jankowski W, et al. **Acta Biochim Pol** 1989; 36(2):93-103
Uptake and modification of dietary polyprenols and dolichols in rat liver. Jakobsson A, et al. **FEBS Lett** 1989 Sep 11; 255(1):32-6

PHARMACOLOGY

Dolichol alters GABA uptake and high affinity binding of agonist to rat brain synaptic plasma membranes. Strosznajder J, et al. **Mol Chem Neuropathol** 1989 Oct; 11(2):77-86

DOLICHOL MONOPHOSPHATE MANNOSE see under **POLYISOPRENYL PHOSPHATE SUGARS**

DOLICHOL PHOSPHATES see under **POLYISOPRENYL PHOSPHATES**

DOLPHIN FISH see **PERCIFORMES**

DOLPHINS

Hepatitis B-like infection in a Pacific white-sided dolphin (Lagenorhynchus obliquidens). Bossart GD, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):127-30

ANATOMY & HISTOLOGY

Ultrastructure of synapses and golgi analysis of neurons in neocortex of the lateral gyrus (visual cortex) of the dolphin and pilot whale [published erratum appears in Brain Res Bull 1990 Apr;24(4):639-40] Glezer II, et al. **Brain Res Bull** 1990 Mar;24(3):401-27
Location of an acoustic window in dolphins. Popov VV, et al. **Experientia** 1990 Jan 15;46(1):53-6
The thalamic projection to the sensory neocortex of the porpoise, Phocoena phocoena. Revishchin AV, et al. **J Anat** 1990 Apr;169:85-102
[The adaptation to water of whale skin. Histologic and histochemical studies of the dolphin, Delphinus delphis, and the porpoise, Phocaena phocaena] Knospe C. **Anat Histol Embryol** 1989 Sep;18(3):193-8 (Eng. Abstr.) (Ger)
[Spatial organization and interneuronal relations in various areas of the neocortex in Cetacea] Krasnoshchekova EI, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):19-25 (Eng. Abstr.) (Rus)
[Sources of thalamic afferent neurons, projecting into the suprasylvian gyrus of the dolphin cerebral cortex] Revishchin AV, et al. **Neirofiziologiia** 1989;21(4):529-39 (Eng. Abstr.) (Rus)
[Organizational characteristics of the superior olive complex and the lateral lemniscus in toothed whales] Krasnoshchekova EI, et al. **Nerv Sist** 1989;28:145-52 (Rus)

EMBRYOLOGY

[Heterochronic maturation of the central and peripheral sections of the auditory system in cetaceans] Zharskaia VD, et al. **Nerv Sist** 1989;28:139-45 (Rus)

METABOLISM

Loss of organochlorine compounds in the tissues of a decomposing stranded dolphin. Borrell A, et al. **Bull Environ Contam Toxicol** 1990 Jul;45(1):46-53

PARASITOLOGY

Toxoplasmosis in Atlantic bottle-nosed dolphins (Tursiops truncatus). Inskeep W 2d, et al. **J Wildl Dis** 1990 Jul; 26(3):377-82
[Braunina cordiformis Wolf, 1903 (Digenea: Brauninidae) in a Chilean dolphin Cephalorhynchus eutropia Gray, 1846 (Cetacea: Odontoceti)] Figueroa L, et al. **Bol Chil Parasitol** 1988 Jul-Dec;43(3-4):71-2 (Eng. Abstr.) (Spa)

PHYSIOLOGY

Comparative milk composition of the bottlenosed dolphin (Tursiops truncatus), humpback dolphin (Sousa plumbea) and common dolphin (Delphinus delphis) from southern African waters. Peddemors VM, et al. **Comp Biochem Physiol [A]** 1989;94(4):639-41
Insights into dolphin sonar discrimination capabilities from human listening experiments. Au WW, et al. **J Acoust Soc Am** 1989 Nov;86(5):1662-70
Auditory brain stem responses in characterization of dolphin hearing. Popov VV, et al. **J Comp Physiol [A]** 1990 Feb; 166(3):385-93
Use of real-time B-mode ultrasound for pregnancy diagnosis and measurement of fetal growth rate in captive bottlenose dolphins (Tursiops truncatus). Williamson P, et al. **J Reprod Fertil** 1990 Mar;88(2):543-8
[Generalization with respect to the "median" position trait in bottle-nosed dolphins] Starodubtsev IuD, et al. **Dokl Akad Nauk SSSR** 1990;310(3):758-62 (Rus)
[Neurophysiologic mechanisms of binaural hearing in the porpoise] Stosman IM, et al. **Nerv Sist** 1989;28:95-111 (Rus)
[The effect of the intensity of sound stimuli on the frequency and spatial characteristics of hearing in the porpoise] Voronov VA, et al. **Nerv Sist** 1989;28:88-95 (Rus)
[The capacity of bottle-nosed dolphins for generalization according to a relative sign] Flëss DA, et al. **Zh Vyssh Nerv Deiat** 1990 Jan-Feb;40(1):44-51 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Matching-to-sample by an echolocating dolphin (Tursiops truncatus). Roitblat HL, et al. **J Exp Psychol [Anim Behav]** 1990 Jan;16(1):85-95
Bottlenosed dolphin and human recognition of veridical and degraded video displays of an artificial gestural language. Herman LM, et al. **J Exp Psychol [Gen]** 1990 Jun; 119(2):215-30

DOM see under **AMPHETAMINES**

DOMICILIARY CARE see **HOME CARE SERVICES**

DOMINANCE, CEREBRAL

see related
LATERALITY

Timing of rhythmic tapping and lateralization. Ilmberger J, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):142-3
Depression among patients with stroke. Dam H, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):118-24
Visuospatial impairment in depression: a controlled ECT study. Rossi A, et al. **Acta Psychiatr Scand** 1990 Mar; 81(3):245-9
Hemispheric local/global processing revisited. Polich J, et al. **Acta Psychol (Amst)** 1990 Jun;74(1):47-60
Verbal and nonverbal right hemisphere processing by chronic alcoholics. Cermak LS, et al. **Alcoholism (N Y)** 1989 Oct; 13(5):611-6
Hemispheric asymmetry. Hellige JB. **Annu Rev Psychol** 1990; 41:55-80 (100 ref.)
Arrangement of ocular dominance columns in human visual cortex. Horton JC, et al. **Arch Ophthalmol** 1990 Jul; 108(7):1025-31
The stability and interest consonance of lateral postural—motor biases in rats: results and implications. Noonan M, et al. **Behav Neural Biol** 1989 Nov; 52(3):386-405
Behavioral bias and left-right response differentiation in the rat. Noonan M, et al. **Behav Neural Biol** 1989 Nov; 52(3):406-10
Independence of uniphasic and biphasic audiogenic seizure progressions in mice. Reid HM, et al. **Behav Neural Biol** 1989 Nov;52(3):417-21
Cognitive and hemispheric inversions when learning nonstandard arithmetic. Fidelman U. **Behav Sci** 1990 Jan; 35(1):34-48
Event-related potentials before and after training: chronometry and lateralization of visual N1 and N2. Ciesielski KT, et al. **Biol Psychol** 1989 Jun;28(3):227-38
Unilateral sensorineural hearing loss in children and auditory performance with respect to right/left ear differences. Hartvig Jensen J, et al. **Br J Audiol** 1989 Aug;23(3):207-13
Unilateral sensorineural hearing loss in children: cognitive abilities with respect to right/left ear differences. Hartvig Jensen J, et al. **Br J Audiol** 1989 Aug;23(3):215-20
The split-brain syndrome. David AS. **Br J Psychiatry** 1989 Mar;154:422-5 (48 ref.)
Vocal acoustic correlates of flat affect in schizophrenia. Similarity to Parkinson's disease and right hemisphere disease and contrast with depression. Alpert M, et al. **Br J Psychiatry Suppl** 1989 May;(4):51-6
Seeing either the forest or the trees: dissociation in visuospatial processing. Bihrle AM, et al. **Brain Cogn** 1989 Sep;11(1):37-49
What bilateral displays do. Boles DB. **Brain Cogn** 1990 Mar; 12(2):205-28
Perceiver and poser asymmetries in processing facial emotion. Borod JC, et al. **Brain Cogn** 1990 Jul;13(2):167-77
Sex differences in the lateralized processing of facial emotion. Burton LA, et al. **Brain Cogn** 1989 Nov;11(2):210-28

Perceptual characteristics in visual laterality research. Christman S. **Brain Cogn** 1989 Nov;11(2):238–57 (80 ref.)
Hemispheric consequences of success–related emotional states: roles of arousal and attention. Derryberry D. **Brain Cogn** 1989 Nov;11(2):258–74
Detectability as a function of target location: effects of spatial configuration. Efron R, et al. **Brain Cogn** 1990 Jan; 12(1):102–16
Visual detectability gradients: the effect of distractors in contralateral field. Efron R, et al. **Brain Cogn** 1990 Jan; 12(1):128–43
Functional cerebral asymmetries and cognitive abilities in musicians, painters, and controls. Hassler M. **Brain Cogn** 1990 May;13(1):1–17
Hemispheric asymmetry in the processing of high and low spatial frequencies: a facial recognition task [published erratum appears in Brain Cogn 1990 May;13(1):130] Keenan PA, et al. **Brain Cogn** 1989 Nov;11(2):229–37
Attentional set in pure– versus mixed–lists in a dichotic listening paradigm. Mathieson CM, et al. **Brain Cogn** 1990 May;13(1):30–45
Short–term memory of aphasics in comparing token stimuli. Meier E, et al. **Brain Cogn** 1990 Mar;12(2):161–81
Beyond scripts: a note on the capacity of right hemisphere–damaged patients to process social and emotional content. Ostrove JM, et al. **Brain Cogn** 1990 Jan; 12(1):144–54
Cerebral asymmetry in visual attention. Palmer T, et al. **Brain Cogn** 1990 May;13(1):46–58
Hemispheric control of spatial attention. Reuter–Lorenz PA, et al. **Brain Cogn** 1990 Mar;12(2):240–66
Gender, level of spatial ability, and lateralization of mental rotation. Voyer D, et al. **Brain Cogn** 1990 May;13(1):18–29
Recognition memory for emotional facial expressions in patients with focal cerebral lesions. Weddell RA. **Brain Cogn** 1989 Sep;11(1):1–17
Hemispheric resource limitations in comprehending ambiguous pictures. White H, et al. **Brain Cogn** 1990 Mar; 12(2):182–94
Differences in asymmetric perception of facial expression in free–vision chimeric stimuli and reaction time. Wirsén A, et al. **Brain Cogn** 1990 Mar;12(2):229–39
Target detection in one visual field in the presence or absence of stimuli in the contralateral field by right– and left–handed subjects. Yund EW, et al. **Brain Cogn** 1990 Jan;12(1):117–27
Aphasia in left–handers. Comparison of aphasia profiles and language recovery in non–right–handed and matched right–handed patients. Basso A, et al. **Brain Lang** 1990 Feb; 38(2):233–52
Dichotic perception and laterality in neonates. Bertoncini J, et al. **Brain Lang** 1989 Nov;37(4):591–605
Impaired activation of the phonological lexicon: effects upon oral reading. Friedman RB, et al. **Brain Lang** 1990 Feb; 38(2):278–97
Linguistic and nonlinguistic impairments in writing: a comparison of patients with focal and multifocal CNS disorders. Glosser G, et al. **Brain Lang** 1989 Oct; 37(3):357–80
Enhancement of naming in nonfluent aphasia through gesture. Hanlon RE, et al. **Brain Lang** 1990 Feb; 38(2):298–314
Narrative comprehension in adults with right and left hemisphere brain–damage: theme organization. Hough MS. **Brain Lang** 1990 Feb;38(2):253–77
The effects of right hemisphere damage on the pragmatic interpretation of conversational remarks. Kaplan JA, et al. **Brain Lang** 1990 Feb;38(2):315–33
Right hemisphere advantage in lexical decision with two–character Chinese words. Keung HS, et al. **Brain Lang** 1989 Nov;37(4):606–15
A reassessment of the time–sharing paradigm with ANCOVA. Sussman HM. **Brain Lang** 1989 Oct; 37(3):514–20
Mirror writing: an advantage for the left–handed? Vaid J, et al. **Brain Lang** 1989 Nov;37(4):616–27
Kinematic analysis of limb movements in neuropsychological research: subtle deficits and recovery of function. Goodale MA, et al. **Can J Psychol** 1990 Jun;44(2):180–95 (46 ref.)
Re–evaluating the effect of unilateral brain damage on simple reaction time to auditory stimulation. Bub D, et al. **Cortex** 1990 Jun;26(2):227–37
Controversial neuropsychological issues in Alzheimer's disease: influence of onset–age and hemispheric asymmetry of impairment. Capitani E, et al. **Cortex** 1990 Mar; 26(1):133–45
Lateralisation of language functioning by the Wada procedure and divided visual field presentation of a verbal task. Channon S, et al. **Cortex** 1990 Mar;26(1):147–51
Right hemisphere specialization for mental rotation in normals and brain damaged subjects. Ditunno PL, et al. **Cortex** 1990 Jun;26(2):177–88
Temporary remission of left hemianesthesia after vestibular stimulation. A sensory neglect phenomenon. Vallar G, et al. **Cortex** 1990 Mar;26(1):123–31
Lateral asymmetry in attention for three–month–old human infants during face–to–face interaction with mother. Fogel A, et al. **Dev Psychobiol** 1990 Jan;23(1):1–14
Cortical topography of premotor and motor potentials preceding self–paced, voluntary movement of dominant and non–dominant hands. Tarkka IM, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):36–43
Intracarotid amobarbital (Wada) test for language dominance: correlation with results of cortical stimulation. Wyllie E, et al. **Epilepsia** 1990 Mar–Apr;31(2):156–61
Interhemispheric transfer of information and schizophrenia. Ditchfield H, et al. **Eur Arch Psychiatry Neurol Sci** 1990; 239(5):309–13
The role of muscarinic acetylcholine receptors in ocular dominance plasticity. Gu Q, et al. **Experientia Suppl** 1989; 57:305–14
40–Hz EEG activity during hypnotic induction and hypnotic testing. DePascalis V, et al. **Int J Clin Exp Hypn** 1990 Apr;38(2):125–38
Role of spectral cues in median plane localization. Asano F, et al. **J Acoust Soc Am** 1990 Jul;88(1):159–68
The combination of interaural time and intensity in the lateralization of high–frequency complex signals. Hafter ER, et al. **J Acoust Soc Am** 1990 Apr;87(4):1702–8
Binaural forward and backward masking: evidence for sluggishness in binaural detection. Kollmeier B, et al. **J Acoust Soc Am** 1990 Apr;87(4):1709–19
Directional dependence of interaural envelope delays. Middlebrooks JC, et al. **J Acoust Soc Am** 1990 May; 87(5):2149–62
Lateralization thresholds obtained under conditions in which the precedence effect is assumed to operate. Saberi K, et al. **J Acoust Soc Am** 1990 Apr;87(4):1732–7
Prevalence of the Fuld profile in temporal lobe epilepsy. Bornstein RA, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):265–9
Coding and recall of categorized material in aphasics. Gutbrod K, et al. **J Clin Exp Neuropsychol** 1989 Dec; 11(6):821–41
Is neglect (only) lateral? A quadrant analysis of line cancellation. Halligan PW, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):793–8
Empirical test of the Inglis and Lawson hypothesis about sex differences in WAIS and WAIS–R brain–damage studies. Kaufman AS, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):281–5
IQ patterns in affective disorder, lateralized and diffuse brain damage. Kluger A, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):182–94
Changes in cerebral functioning associated with normal aging. Mittenberg W, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):918–32
Impairment of central auditory function in Alzheimer's disease. Mohr E, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):235–46
Assessment of musical processing in brain–damaged patients: implications for laterality of music. Prior M, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):301–12
Presidents Test performance in varieties of diffuse and unilateral cerebral disease. Roberts RJ, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):195–208
Effects of stimulus degradation on letter–matching performance of left and right hemispheric stroke patients. Wolcott CL, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):222–34
The development of spatial relation representations: evidence from studies of cerebral lateralization. Koenig O, et al. **J Exp Child Psychol** 1990 Aug;50(1):119–30
Evidence for two types of spatial representations: hemispheric specialization for categorical and coordinate relations. Kosslyn SM, et al. **J Exp Psychol [Hum Percept]** 1989 Nov;15(4):723–35
Prognosis in stroke [letter; comment] Foley J. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1312 Comment on: J Neurol Neurosurg Psychiatry 1989 Apr;52(4):493–6.
Contralateral and ipsilateral disorders of visual attention in patients with unilateral brain damage. Gainotti G, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):422–6
Do visual field deficits exacerbate visuo–spatial neglect? Halligan PW, et al. **J Neurol Neurosurg Psychiatry** 1990 Jun;53(6):487–91
Two techniques for the assessment of line bisection in visuo–spatial neglect: a single case study. Halligan PW, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov; 52(11):1300–2
Unilateral visual neglect overcome by cues implicit in stimulus arrays. Kartsounis LD, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1253–9
Neuropsychological understanding of psychiatric symptoms in epileptics: cognitive impairments due to epileptic lesions as revealed by tachistoscopic and dichotic–listening measures. Niwa S. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):417–8
Ocular dominance plasticity in adult cat visual cortex after transplantation of cultured astrocytes. Müller CM, et al. **Nature** 1989 Nov 23;342(6248):427–30
The effects of developmental factors on IQ in hemiplegic children. Banich MT, et al. **Neuropsychologia** 1990; 28(1):35–47
Appreciation of metaphoric alternative word meanings by left and right brain–damaged patients. Brownell HH, et al. **Neuropsychologia** 1990;28(4):375–83
Tachistoscopic presentation of verbal stimuli for assessing cerebral dominance: reliability data and some practical recommendations. Brysbaert M, et al. **Neuropsychologia** 1990;28(5):443–55
Spatial attentional shifts: further evidence for the role of polysensory mechanisms using visual and tactile stimuli. Butter CM, et al. **Neuropsychologia** 1989;27(10):1231–40
Temporal integration of form as a function of subject handedness and retinal locus of presentation. Christman S. **Neuropsychologia** 1989;27(11–12):1373–82
Effects of luminance and blur on hemispheric asymmetries in temporal integration. Christman S. **Neuropsychologia** 1990;28(4):361–74
Neuropsychological dimensions of the fragile X syndrome: support for a non–dominant hemisphere dysfunction hypothesis. Crowe SF, et al. **Neuropsychologia** 1990; 28(1):9–16
Perceptual asymmetry for happy–sad chimeric faces: effects of mood [published erratum appears in Neuropsychologia 1990;28(1):109] David AS. **Neuropsychologia** 1989; 27(10):1289–300
Frames of reference for allocating attention to space: evidence from the neglect syndrome. Farah MJ, et al. **Neuropsychologia** 1990;28(4):335–47
Spontaneous imagery scanning and hemisphere function. French CC, et al. **Neuropsychologia** 1989;27(8):1105–8
Directed attention dichotic listening in reading disabled children: a test of four models of maladaptive lateralization. Kershner JR, et al. **Neuropsychologia** 1990;28(2):181–98
Lateralization for the expression and perception of facial emotion as a function of age. Moreno CR, et al. **Neuropsychologia** 1990;28(2):199–209
Enhanced right hemisphere involvement during cognitive processing may relate to intellectual precocity. O'Boyle MW, et al. **Neuropsychologia** 1990;28(2):211–6
Anomia for facial expressions: evidence for a category specific visual–verbal disconnection syndrome. Rapcsak SZ, et al. **Neuropsychologia** 1989;27(8):1031–41
Digit span and visual neglect: a puzzling relationship. Robertson IH. **Neuropsychologia** 1990;28(2):217–22
Judging the reflection of misoriented patterns in the right and left visual fields. Robertson LC, et al. **Neuropsychologia** 1989;27(8):1081–9
Asymmetries in the perception of facial affect: is there an influence of reading habits? Vaid J, et al. **Neuropsychologia** 1989;27(10):1277–87
Hemispheric differences in global versus local processing of hierarchical visual stimuli by normal subjects: new data and a meta–analysis of previous studies. Van Kleeck MH. **Neuropsychologia** 1989;27(9):1165–78
Gestalt laws of perceptual organization in an embedded figures task: evidence for hemispheric specialization. Van Kleeck MH, et al. **Neuropsychologia** 1989;27(9):1179–86
Visual memory lateralization in pigeons. von Fersen L, et al. **Neuropsychologia** 1990;28(1):1–7
Voluntary emotional facial expressions in patients with focal cerebral lesions. Weddell RA, et al. **Neuropsychologia** 1990; 28(1):49–60
Within–modal and cross–modal consistency in the direction and magnitude of perceptual asymmetry. Wexler BE, et al. **Neuropsychologia** 1990;28(1):71–80
Sex differences and bilateral electrodermal activity: a replication. Román F, et al. **Pavlov J Biol Sci** 1989 Oct–Dec;24(4):150–5
Multiple indicators of side preference in the rat. Becker G, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):947–56
Speech and music draw attention to the right ear in stereophonic listening. Cheatham BH. **Percept Mot Skills** 1990 Feb;70(1):227–31
Olfaction in schizophrenia. Dunn TP, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):833–4
Differences in comprehension processes as a function of hemisphericity. Gadzella BM, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):783–6
Sex differences and handedness in hemispheric lateralization of tactile–spatial functions. Genetta–Wadley A, et al. **Percept Mot Skills** 1990 Apr;70(2):579–90
Asymmetry in gait timing in hemiparetics. Háčik L, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):898
Manual dexterity, strength, fatigue, and perseveration: an initial test of asymmetry in cerebral activation. Harrison DW, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):739–44
Influence of stronger attentional manipulations on the processing of dichotic inputs in right–handers. Iaccino JF, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1235–40
Asymmetrical processing of tachistoscopic inputs in undergraduates across sex, handedness, field–side, and fixation instructions. Iaccino JF. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1203–13
A study of humor and the right hemisphere. Johnson AM. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):995–1002
Comparison of processing style and instructional style observed in physical educators and dance educators. Karp GG, et al. **Percept Mot Skills** 1990 Feb;70(1):122
Information–processing differences and laterality of students from different colleges and disciplines. Monfort M, et al. **Percept Mot Skills** 1990 Feb;70(1):163–72
Detection of simultaneous visual stimuli by school–children. Radilová J. **Percept Mot Skills** 1990 Apr;70(2):601–2
Hemispheric specialization for processing Chinese characters: some evidence from lexical decision vocal reaction times. Rastatter MP, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1083–9
Mania and nondominant hemisphere function. Stein J. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):975–8
A new approach to cerebral asymmetry: RT differences in simultaneous bimanual finger movement during verbal and nonverbal tasks. Wünscher T, et al. **Percept Mot Skills** 1990

Apr;70(2):543–8
Metaliteral dreaming: a right hemisphere dominant linguistic activity. Arenson K. **Psychiatr J Univ Ott** 1990 Jun; 15(2):100–6 (19 ref.)
Right hemispheric dysfunction in nonverbal learning disabilities: social, academic, and adaptive functioning in adults and children. Semrud-Clikeman M, et al. **Psychol Bull** 1990 Mar;107(2):196–209 (130 ref.)
Learning style, repeated stimuli, and originality in intellectually gifted adolescents. Masten WG. **Psychol Rep** 1989 Dec;65(3 Pt 1):751–4
Hemispheric differences in visual search of simple line arrays. Polich J, et al. **Psychol Res** 1990;52(1):54–61
Hemisphere-specific resource demands of task expectancies. Lamberts K, et al. **Q J Exp Psychol [A]** 1990 Feb; 42(1):87–104
Dichotic stimulation and mental retardation. Mosley JL, et al. **Res Dev Disabil** 1990;11(2):139–63 (140 ref.)
Lateralization of defence mechanisms in a visual half-field paradigm. Carlsson I. **Scand J Psychol** 1989;30(4):296–303
[A further study and discussion on mirror writing and the development of the Chinese written language] Wang XD. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):108–10, 127 (Eng. Abstr.) **(Chi)**
[Motoric dominance and psychoses] Xu L, et al. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Feb; 23(1):49–52 (12 ref.) **(Chi)**
[Motor and sensory laterality in the population of Prague] Dvořáková M, et al. **Sb Lek** 1989 Nov;91(11–12):353–9 (Eng. Abstr.) **(Cze)**
[Cerebral lateralization and immune response] Neveu PJ. **Encephale** 1989 Jul–Aug;15(4):405–8 (38 ref.) (Eng. Abstr.) **(Fre)**
[The "Ring Test" for evaluating eye dominance] Safra D. **Klin Monatsbl Augenheilkd** 1989 Jul;195(1):35–6 (Eng. Abstr.) **(Ger)**
[Response to the letter by H. f. Durwen [Nervenarzt (1989) 60: 370] on the contribution by L. Hermle and G. Oepen. Hemispheric laterality and early childhood autism. Nervenarzt (1987) 58: 644–647] Hermle L, et al. **Nervenarzt** 1990 Jan;61(1):66 **(Ger)**
[Morphological correlates and heredity in functional asymmetry of the cerebral hemispheres] Cerňáček J. **Bratisl Lek Listy** 1989 Nov;90(11):831–4 (Eng. Abstr.) **(Slo)**
[Relation of functional hemisphere asymmetry to motor performance] Cerňáček J. **Bratisl Lek Listy** 1990 May; 91(5):341–4 (Eng. Abstr.) **(Slo)**
[Ontogenic aspects of functional asymmetry of the hemispheres] Cerňáček J. **Cesk Neurol Neurochir** 1990 May; 53(3):151–5 (Eng. Abstr.) **(Slo)**
[Mirror movement. Review of 11 cases] Artigas Pallarés J, et al. **An Esp Pediatr** 1989 Dec;31(6):559–63 (Eng. Abstr.) **(Spa)**
[Crossed minor hemisphere syndrome in a right-handed man] Ferrero Arias J, et al. **Neurologia** 1988 Mar–Apr;3(2):71–6 (39 ref.) (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Neglect following unilateral ablation of the caudal but not the rostral portion of medial agranular cortex of the rat and the therapeutic effect of apomorphine. King V, et al. **Behav Brain Res** 1990 Mar 5;37(2):169–84
Nigral D1 and striatal D2 receptors mediate the behavioral effects of dopamine agonists. LaHoste GJ, et al. **Behav Brain Res** 1990 May 28;38(3):233–42
Relation between motor asymmetry and direction of rotational behaviour under amphetamine and apomorphine in rats with unilateral degeneration of the nigrostriatal dopamine system. Ziegler MG, et al. **Behav Brain Res** 1990 Jul 9;39(2):123–33
Interaction between recovery from behavioral asymmetries induced by hemivibrissotomy in the rat and the effects of apomorphine and amphetamine. Milani H, et al. **Behav Neurosci** 1990 Jun;104(3):470–6
Spiroperidol reinstates asymmetries in neglect in rats recovered from left or right dorsomedial prefrontal cortex lesions. Vargo JM, et al. **Behav Neurosci** 1989 Oct; 103(5):1017–27
Hemispheric specialization for emotional expression: a reexamination of results from intracarotid administration of sodium amobarbital. Lee GP, et al. **Brain Cogn** 1990 Mar;12(2):267–80
Perceptual asymmetry on the dichotic fused words test and cerebral speech lateralization determined by the carotid sodium amytal test. Zatorre RJ. **Neuropsychologia** 1989; 27(10):1207–19
Right hemisphere involvement in mescaline-induced psychosis. Oepen G, et al. **Psychiatry Res** 1989 Sep; 29(3):335–6
Neuroleptic effects on interhemispheric and intrahemispheric performance of tactile discrimination tasks by schizophrenic patients. Tomer R. **Psychiatry Res** 1990 Jun; 32(3):289–96

GENETICS

An investigation of immune system disorder as a "marker" for anomalous dominance. Rich DA, et al. **Brain Cogn** 1990 Jan;12(1):55–72
Cross-modal correlation of dichotic and tachistoscopic language laterality tasks: the importance of familial sinistrality. Krutsch AJ, et al. **Brain Lang** 1990 Apr; 38(3):384–97
For better or for worse: left-handedness, pathology, and talent. Smith BD, et al. **J Clin Exp Neuropsychol** 1989 Dec; 11(6):944–58

PHYSIOLOGY

Human evoked potentials to shifts in the lateralization of a noise. McEvoy LK, et al. **Audiology** 1990;29(3):163–80
Functional subdivisions of the rat somatic sensorimotor cortex. Barth TM, et al. **Behav Brain Res** 1990 Jun 18; 39(1):73–95
The effect of unilateral anteromedial cortex lesions on prey-catching and spatio-motor behaviour in the rat. Christie D, et al. **Behav Brain Res** 1990 Mar 26;37(3):263–8
Corpus callosum section disrupts motor behaviour strategies during visual discrimination learning in rat. Christie D, et al. **Behav Brain Res** 1990 Mar 5;37(2):189–94
Interhemispheric transfer of visuomotor conditional learning via the anterior corpus callosum of monkeys. Eacott MJ, et al. **Behav Brain Res** 1990 May 7;38(2):109–16
Sparing of visual field perception in neonatal but not adult cerebral hemispherectomized cats. Relationship with oxidative metabolism of the superior colliculus. Hovda DA, et al. **Behav Brain Res** 1990 Mar 5;37(2):119–32
The interhemispheric projection from the substantia nigra to the caudate-putamen as depicted by the anterograde transport of [3H]leucine. Morgan S, et al. **Behav Brain Res** 1990 May 7;38(2):155–62
Task-dependent memory loss and recovery following unilateral nucleus basalis lesion: behavioral and neurochemical correlation. Nakamura S, et al. **Behav Brain Res** 1990 Jul 9;39(2):113–22
Light input and the reversal of functional lateralization in the chicken brain. Rogers LJ. **Behav Brain Res** 1990 May 28;38(3):211–21
The ocular dominance and receptive field properties of visual cortex cells of cats following long-term transection of the optic chiasm and monocular deprivation during adulthood. Yinon U, et al. **Behav Brain Res** 1990 May 7;38(2):163–73
Y-chromosomal effects on discrimination learning and hippocampal asymmetry in mice. van Abeelen JH, et al. **Behav Genet** 1989 Jul;19(4):543–9
Analysis of recovery from behavioral asymmetries induced by unilateral removal of vibrissae in the rat. Milani H, et al. **Behav Neurosci** 1989 Oct;103(5):1067–74
Visual evoked potential measures of interhemispheric transfer time in humans. Saron CD, et al. **Behav Neurosci** 1989 Oct; 103(5):1115–38
Asymmetric metabolism over basal ganglia in catatonia [letter] Early TS. **Biol Psychiatry** 1990 Jul 15;28(2):177
Bereitschaftspotential in melancholic depression. Khanna S, et al. **Biol Psychiatry** 1989 Sep;26(5):526–9
Basal ganglia regional glucose metabolism asymmetry during a catatonic episode. Luchins DJ, et al. **Biol Psychiatry** 1989 Nov;26(7):725–8
Mechanisms of action of ECT: schizophrenia and schizoaffective disorder. Milstein V, et al. **Biol Psychiatry** 1990 Jun 15;27(12):1282–92
Deficit and hemispheric asymmetry of GABA uptake sites in the hippocampus in schizophrenia. Reynolds GP, et al. **Biol Psychiatry** 1990 May 1;27(9):1038–44
Replication of an evoked potential study of lateralized hemispheric dysfunction in schizophrenics. Roemer RA, et al. **Biol Psychiatry** 1990 Aug 15;28(4):275–91
Parietal processing of affect and cognition: cerebral organization in strongly lateralized left-handed subjects. Smith BD, et al. **Biol Psychol** 1989 Aug;29(1):11–26
Mood changes after right-hemisphere lesions. Starkstein SE, et al. **Br J Psychiatry** 1989 Jul;155:79–85
Binocularity in the little owl, Athene noctua. I. Anatomical investigation of the thalamo-Wulst pathway. Bagnoli P, et al. **Brain Behav Evol** 1990;35(1):31–9
Binocularity in the little owl, Athene noctua. II. Properties of visually evoked potentials from the Wulst in response to monocular and binocular stimulation with sine wave gratings. Porciatti V, et al. **Brain Behav Evol** 1990; 35(1):40–8
Forced unilateral nostril breathing: a technique that affects brain hemisphericity and autonomic activity. Backon J. **Brain Cogn** 1990 Jan;12(1):155–7
Visual cerebral lateralization over phases of the menstrual cycle: a preliminary investigation. Chiarello C, et al. **Brain Cogn** 1989 Sep;11(1):18–36
Unimanual tapping during concurrent articulation: examining the role of cortical structures in the execution of programmed movement sequences. Inhoff AW, et al. **Brain Cogn** 1990 May;13(1):59–76
Asymmetrical transfer of training between hands: implications for interhemispheric communication in normal brain. Parlow SE, et al. **Brain Cogn** 1989 Sep;11(1):98–113
The neuropsychology of visual image generation: data, method, and theory. Sergent J. **Brain Cogn** 1990 May; 13(1):98–129 (68 ref.)
Handedness and hemispheric asymmetry of pattern reversal visual-evoked potentials. Spinelli D, et al. **Brain Cogn** 1990 Jul;13(2):193–210
Frontal lobes and language. Alexander MP, et al. **Brain Lang** 1989 Nov;37(4):656–91
Fluency of conversational speech in children with unilateral brain lesions. Aram DM, et al. **Brain Lang** 1990 Jan; 38(1):105–21
Event-related potentials and the phonological matching of picture names. Barrett SE, et al. **Brain Lang** 1990 Apr; 38(3):424–37
Differential recovery of languages in a bilingual patient: a case study using selective amytal test. Berthier ML, et al. **Brain Lang** 1990 Apr;38(3):449–53
Semantic and associative priming in the cerebral hemispheres: some words do, some words don't ... sometimes, some places [published erratum appears in Brain Lang 1990 Apr;38(3):462] Chiarello C, et al. **Brain Lang** 1990 Jan; 38(1):75–104
Neurodevelopmental differences in emotional prosody in normal children and children with left and right temporal lobe epilepsy. Cohen M, et al. **Brain Lang** 1990 Jan; 38(1):122–34
Subcortical auditory agnosia. Kazui S, et al. **Brain Lang** 1990 May;38(4):476–87
Sex equality in intrahemispheric language organization. Kertesz A, et al. **Brain Lang** 1989 Oct;37(3):401–8
The relation between oral movement control and speech. Kimura D, et al. **Brain Lang** 1989 Nov;37(4):565–90
The corpus callosum and cerebral speech lateralization. Lassonde M, et al. **Brain Lang** 1990 Feb;38(2):195–206
Anatomical correlates of normal and impaired language in a set of dizygotic twins. Plante E, et al. **Brain Lang** 1989 Nov;37(4):643–55
Disruption of semantic influence on writing following a left prefrontal lesion. Rapcsak SZ, et al. **Brain Lang** 1990 Feb; 38(2):334–44
The ontogeny of hemispheric specialization: some old hypotheses revisited. Satz P, et al. **Brain Lang** 1990 May; 38(4):596–614 (58 ref.)
Sulcus topography of the parietal opercular region: an anatomic and MR study. Steinmetz H, et al. **Brain Lang** 1990 May;38(4):515–33
Bilingual language processing after a lesion in the left thalamic and temporal regions. A case report with early childhood onset. van Lieshout P, et al. **Brain Lang** 1990 Feb;38(2):173–94
Event-related potentials during word-reading and figure-matching in left-handed and right-handed males and females. Van Strien JW, et al. **Brain Lang** 1989 Nov; 37(4):525–47
Adrenal medulla graft induced recovery of function in an animal model of Parkinson's disease: possible mechanisms of action. Becker JB, et al. **Can J Psychol** 1990 Jun; 44(2):293–310 (80 ref.)
Manual asymmetry in weight discrimination: hand preference or hemispheric specialization? Brodie EE. **Cortex** 1989 Sep; 25(3):417–23
Skull asymmetries bear no relation to the occurrence of apraxia. A clinical and CT-scan study in patients with unilateral brain damage. Faglioni P, et al. **Cortex** 1989 Sep; 25(3):449–59
Psychomotor disturbances in psychiatric patients as a possible basis for new attempts at differential diagnosis and therapy. IV. Brain dysfunction during motor activation measured by EEG mapping. Günther W, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(3):194–209
"Whole brain" politics and brain laterality research. Harrington A, et al. **Eur Arch Psychiatry Neurol Sci** 1989; 239(3):141–3
Effect of contralateral sound stimulation on the distortion product 2F1–F2: evidence that the medial efferent system is involved. Puel JL, et al. **J Acoust Soc Am** 1990 Apr; 87(4):1630–5
Contralateral hemiplegia in herpes zoster ophthalmicus. Role of temporal artery biopsy. Behari M, et al. **J Assoc Physicians India** 1989 Sep;37(9):606–9
Crossed aphasia in a patient with complex partial seizures: evidence from intracarotid amobarbital testing, functional cortical mapping, and neuropsychological assessment. Loring DW, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):340–54
Interhemispheric interaction when both hemispheres have access to the same stimulus information. Hellige JB, et al. **J Exp Psychol [Hum Percept]** 1989 Nov;15(4):711–22
Categorization of disoriented faces in the cerebral hemispheres of normal and commissurotomized subjects. Sergent J, et al. **J Exp Psychol [Hum Percept]** 1989 Nov; 15(4):701–10
Component mechanisms underlying the processing of hierarchically organized patterns: inferences from patients with unilateral cortical lesions. Lamb MR, et al. **J Exp Psychol [Learn Mem Cogn]** 1990 May;16(3):471–83
Failure of induced asymmetries to improve left-right response differentiation in the rat. Noonan M, et al. **J Gen Psychol** 1990 Apr;117(2):197–202
Lateralisation of cortical function during cognitive tasks: regional cerebral blood flow studies of normal individuals and patients with schizophrenia. Berman KF, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):150–60
Vertical gaze palsy and selective unilateral infarction of the rostral interstitial nucleus of the medial longitudinal fasciculus (riMLF). Bogousslavsky J, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):67–71
Oral dyskinesias associated with bilateral thalamo-capsular infarction. Combarros O, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):168–9
Disturbances in ocular sympathetic function and facial blood flow in unilateral migraine headache. Drummond PD. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):121–5

A cerebral hemisphere influence on cutaneous vasomotor reflexes in humans. Herbaut AG, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):118–20

Scoliosis in rats with experimentally-induced hemiparkinsonism: dependence upon striatal dopamine denervation. Herrera-Marschitz M, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):39–43

Rejection behaviour: a human homologue of the abnormal behaviour of Denny-Brown and Chambers' monkey with bilateral parietal ablation. Mori E, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1260–6

Postcallosotomy language impairments in patients with crossed cerebral dominance. Sass KJ, et al. **J Neurosurg** 1990 Jan;72(1):85–90

Approach–withdrawal and cerebral asymmetry: emotional expression and brain physiology. I. Davidson RJ, et al. **J Pers Soc Psychol** 1990 Feb;58(2):330–41

Cerebral hemisphere function and migraine. Crisp AH, et al. **J Psychiatr Res** 1989;23(3–4):201–12

Mechanism of occurrence of PLEDs: observations by SPECT and X-ray CT with lapse of time. Kawai K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):542–3

Bilateral waveform dissimilarity of auditory evoked potentials may reveal a lateralized motor response process: a correlation method. Ninomiya H, et al. **Jpn J Psychiatry Neurol** 1989 Jun;43(2):183–90

Hypergraphia in temporal lobe epilepsy—compared with stroke of the right cerebral hemisphere. Okamura T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):524–5

Complex partial seizures with unilateral discharge originating from temporal lobe. Sue H, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):519–21

The interaction of the two cerebral hemispheres in the integration of the language system. Dănăilă L, et al. **Neurol Psychiatr (Bucur)** 1990 Apr–Jun;28(2):97–107

Olfactory lateralization and identification in right hemisphere lesion and control patients. Bellas DN, et al. **Neuropsychologia** 1989;27(9):1187–91

Impaired verbal reasoning and constructional apraxia in subjects with right hemisphere damage. Benowitz LI, et al. **Neuropsychologia** 1990;28(3):231–41

Topographic disorientation—a case report. Bottini G, et al. **Neuropsychologia** 1990;28(3):309–12

Language and verbal memory after right hemispheric stroke: a clinical–CT scan study. Cappa SF, et al. **Neuropsychologia** 1990;28(5):503–9

Unilateral periarcuate and posterior parietal lesions impair conditional position discrimination learning in the monkey. Crowne DP, et al. **Neuropsychologia** 1989;27(9):1119–27

Reaction time measures of interhemispheric transfer time in reading disabled and normal children. Davidson RJ, et al. **Neuropsychologia** 1990;28(5):471–85

Identification and discrimination disorders in auditory perception: a report on two cases. Eustache F, et al. **Neuropsychologia** 1990;28(3):257–70

The relationship of working memory to the immediate recall of stories following unilateral temporal or frontal lobectomy. Frisk V, et al. **Neuropsychologia** 1990; 28(2):121–35

The role of the left hippocampal region in the acquisition and retention of story content. Frisk V, et al. **Neuropsychologia** 1990;28(4):349–59

Individual variability in cortical organization: its relationship to brain laterality and implications to function. Galaburda AM, et al. **Neuropsychologia** 1990;28(6):529–46 (85 ref.)

Laterality of motor response in visuo-spatial neglect: a case study. Halligan PW, et al. **Neuropsychologia** 1989; 27(10):1301–7

Force matching by patients with unilateral focal cerebral lesions. Jones L. **Neuropsychologia** 1989;27(9):1153–63

Nonspatial conditional learning impaired in patients with unilateral frontal but not unilateral temporal lobe excisions. Petrides M. **Neuropsychologia** 1990;28(2):137–49

Supraspan learning in patients with unilateral anterior temporal lobe resections. Rausch R, et al. **Neuropsychologia** 1990;28(2):111–20

Components of neglect from right–hemisphere damage: an analysis of line bisection. Reuter-Lorenz PA, et al. **Neuropsychologia** 1990;28(4):327–33

Double disconnection effects resulting from infiltrating tumors. Sidtis JJ, et al. **Neuropsychologia** 1989; 27(11–12):1415–20

Subjective ordering, short-term memory, and the frontal lobes. Wiegersma S, et al. **Neuropsychologia** 1990;28(1):95–8

Psychophysiological correlates of human brain asymmetry: blood pressure changes during lateralized presentation of an emotionally laden film. Wittling W. **Neuropsychologia** 1990;28(5):457–70

Facial neglect. Young AW, et al. **Neuropsychologia** 1990; 28(5):391–415

The anatomy of mental unity and volition: an alternate view [comment] Stillman RC, et al. **Psychiatry** 1989 Nov; 52(4):410–3; discussion 414–5 Comment on: Psychiatry 1989 Nov;52(4):404–9.

The anatomy of the ego [see comments] Tinnin L. **Psychiatry** 1989 Nov;52(4):404–9 (15 ref.) Comment in: Psychiatry 1989 Nov;52(4):410–3; discussion 414–5.

Ventricular size, cognitive and psychomotor performance, and laterality in schizophrenia. Classen W, et al. **Psychiatry Res** 1989 Sep;29(3):267–9

Developmental arrest of cerebral asymmetries in early onset schizophrenia. Crow TJ, et al. **Psychiatry Res** 1989 Sep; 29(3):247–53

Mean hemispheric blood perfusion during autogenic training and hypnosis. Diehl BJ, et al. **Psychiatry Res** 1989 Sep; 29(3):317–8

Asymmetrical distribution of beta-endorphin in cerebral hemispheres of suicides: preliminary data. Scarone S, et al. **Psychiatry Res** 1990 May;32(2):159–66

Volumetric assessment of cerebral asymmetry from CT scans. Zipursky RB, et al. **Psychiatry Res** 1990 Apr;35(1):71–89

Electrode placement in ECT: cognitive effects. Lawson JS, et al. **Psychol Med** 1990 May;20(2):335–44

Auditory and visual P300s in temporal lobectomy patients: evidence for modality-dependent generators. Johnson R Jr. **Psychophysiology** 1989 Nov;26(6):633–50

Late components of auditory event-related potentials to eight equiprobable stimuli in a target detection task. McCallum WC, et al. **Psychophysiology** 1989 Nov;26(6):683–94

Homo- and anti-phasic stimulation in ABR. Rawool VW, et al. **Scand Audiol** 1990;19(1):9–15

Asymmetrical auditory probe evoked potentials during REM and NREM sleep. Armitage R, et al. **Sleep** 1990 Feb; 13(1):69–78

Trigeminal projections to contralateral dorsal horn: central extent, peripheral origins, and plasticity. Jacquin MF, et al. **Somatosens Mot Res** 1990;7(2):153–83

Bilateral receptive fields in cortical area SII: contribution of the corpus callosum and other interhemispheric commissures. Petit D, et al. **Somatosens Mot Res** 1990; 7(2):97–112

Parkinsonism after clipping of bilateral aneurysms of the middle cerebral arteries. Jaskólski D, et al. **Zentralbl Neurochir** 1989;50(3–4):193–5

[Plasticity of the callosal system] Lassonde M, et al. **Can J Psychol** 1990 Jun;44(2):166–79 (Eng. Abstr.) (Fre)

[Functional correlates of manual preference] Jeannerod M. **Pediatrie** 1990;45(3):157–63 (43 ref.) (Eng. Abstr.) (Fre)

[Erroneous laterality marking in CT of the head. A case report] Warnke JP, et al. **Zentralbl Neurochir** 1989; 50(3–4):190–2 (Eng. Abstr.) (Ger)

[The asymmetry of the free amino acid pool in sections of the rat brain] Rakhimov RN, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):676–8 (Eng. Abstr.) (Rus)

[Interhemispheric asymmetry as a factor in human adaptation to northern conditions] Arshavskiĭ VV, et al. **Fiziol Cheloveka** 1989 Sep–Oct;15(5):142–7 (Rus)

[The hemispheric asymmetry of the brain during the processing of verbal material] Budohoska W, et al. **Fiziol Cheloveka** 1990 Jan–Feb;16(1):26–32 (Rus)

[The significance of the design of a dichotic test in research on functional asymmetry of the brain] Dmitrieva ES, et al. **Fiziol Cheloveka** 1989 Jul–Aug;15(4):165–7 (Rus)

[Interhemispheric alpha rhythm asymmetry and the efficiency of mnemonic activity] Fedotchev AI, et al. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):3–7 (Rus)

[Interhemispheric asymmetry of the bioelectrical activity during sleep in patients with a bitemporal brain lesion] Ivanenko AI, et al. **Fiziol Cheloveka** 1990 Jan–Feb; 16(1):19–25 (Rus)

[The asymmetry of the expressivity of the electrical activity rhythms in the cerebral hemispheres as a correlate of negative human emotional states] Konovalov VF, et al. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):22–30 (Rus)

[Interhemispheric differences in the spatial-frequency analysis of images] Nevskaia AA, et al. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):16–23 (Rus)

[Color preference as an index of emotional-personality characteristics (research under conditions of transient depression of the right or left hemisphere)] Nikolaenko NN, et al. **Fiziol Cheloveka** 1989 Jul–Aug;15(4):11–5 (Rus)

[The functional asymmetry of the brain and the structure of the visual field] Nikolaenko NN. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):8–15 (Rus)

[Interhemispheric correlations of the EEG activation during graphic-image and verbal thinking] Shcheblanova EI. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):17–21 (Rus)

[The characteristics of the processing of visual information in the right and left hemispheres of the human brain] Zal'tsman AG. **Fiziol Cheloveka** 1990 Mar–Apr; 16(2):135–48 (102 ref.) (Rus)

[Interhemispheric asymmetry of ipsilateral interzonal evoked potentials in the parietal and sensorimotor cortex of the cat] Bianki VL, et al. **Fiziol Zh SSSR** 1989 Oct; 75(10):1320–7 (Eng. Abstr.) (Rus)

[Interhemispheric asymmetry in the interaction of the transcallosal and ascending flows of excitation in the cat visual cortex] Bozhko GT, et al. **Fiziol Zh SSSR** 1990 Jan; 76(1):3–11 (Eng. Abstr.) (Rus)

[The effect of a peptide-containing extract of the right hemispheric cortex on the recovery of conditioned reflex activity and on the level of neuromediators in the brain structures of rats after a unilateral frontal lobectomy] Romanova GA, et al. **Patol Fiziol Eksp Ter** 1990 May–Jun; (3):8–11 (Eng. Abstr.) (Rus)

[Functional asymmetries in patients with endogenous psychoses (a review)] Vvedenskiĭ GE. **Zh Nevropatol Psikhiatr** 1990;90(5):129–40 (132 ref.) (Rus)

[Unilateral epilepsy and the asymmetry of postepileptic sleep] Aslanova MA, et al. **Zh Vysh Nerv Deiat** 1990 Mar–Apr; 40(2):362–8 (Eng. Abstr.) (Rus)

[The significance of interhemispheric asymmetry in the development of compensatory processes in the human brain] Dobronravova IS. **Zh Vysh Nerv Deiat** 1989 Sep–Oct;39(5):819–27 (Eng. Abstr.) (Rus)

[The effect of gonadectomy on interhemispheric asymmetry in rats] Filippova EB, et al. **Zh Vysh Nerv Deiat** 1990 May–Jun;40(3):565–74 (Eng. Abstr.) (Rus)

[Lateralization of visuo-spatial function during masking in healthy subjects and in patients with chronic alcoholism] Genkina OA, et al. **Zh Vysh Nerv Deiat** 1989 May–Jun; 39(3):431–9 (Eng. Abstr.) (Rus)

[Interhemispheric asymmetry of the spatial-temporal organization of human cortical potentials during the performance of an intellectual task] Iakovenko IA. **Zh Vysh Nerv Deiat** 1989 Jul–Aug;39(4):595–602 (Eng. Abstr.) (Rus)

[Changes in the space-time organization of the bioelectrical activity of the human brain on completing the solution of a mental task] Kirol VN, et al. **Zh Vysh Nerv Deiat** 1989 May–Jun;39(3):421–30 (Eng. Abstr.) (Rus)

[Thermal asymmetry of the rat brain in catalepsy] Petrova EV, et al. **Zh Vysh Nerv Deiat** 1989 Nov–Dec;39(6):1160–2 (Rus)

[The hemispheric lateralization of the recognition of noisy visual stimuli in man] Udalova GP. **Zh Vysh Nerv Deiat** 1990 May–Jun;40(3):426–34 (Eng. Abstr.) (Rus)

[The dynamic characteristics of the interhemispheric correlations of the EEG during the recovery of human neuropsychic activities] Zhavoronkova LA. **Zh Vysh Nerv Deiat** 1990 Mar–Apr;40(2):238–46 (Eng. Abstr.) (Rus)

DOMINANCE, SOCIAL see **SOCIAL DOMINANCE**

DOMINANCE-SUBORDINATION see under **SOCIAL DOMINANCE**

DOMPERIDONE

ADMINISTRATION & DOSAGE

Use of peripheral dopamine antagonist (Motilium) in the treatment of dyspeptic complaints of different origin and in nausea, vomiting. Sásdi A. **Ther Hung** 1989;37(3):172–5

IMMUNOLOGY

Antibodies with high affinity for spiroperidol—II. Cross reactivity with iodobenzamide and domperidone. Luedtke RR, et al. **Mol Immunol** 1990 Jul;27(7):667–77

PHARMACOLOGY

Summary of the 34th meeting of the Food and Drug Administration Gastrointestinal Drugs Advisory Committee. March 15 and 16, 1989 (omeprazole and domperidone). Stern WR. **Am J Gastroenterol** 1989 Nov; 84(11):1351–5

Effects of central and peripheral dopamine antagonism on aldosterone secretion: evidence for adrenal mechanism. Stern N, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E588–94

Domperidone, an inhibitor of the D2-receptor, blocks a late phase of an electrically induced long-term potentiation in the CA1-region in rats. Frey U, et al. **Biomed Biochim Acta** 1989;48(7):473–6

The effect of domperidone on theophylline disposition in the rat. Bawazir SA, et al. **Biopharm Drug Dispos** 1989 Nov–Dec;10(6):531–5

The antinatriuretic effect of dopaminergic blockade during volume expansion is independent of circulating atrial natriuretic factor. Coruzzi P, et al. **Clin Sci** 1989 Nov; 77(5):479–84

Antagonism by domperidone of the ocular hypotensive effect of pergolide. al-Sereiti MR, et al. **Eur J Clin Pharmacol** 1990;38(5):461–3

A novel water-soluble dopamine-2 antagonist with anticholinesterase activity in gastrointestinal motor activity. Comparison with domperidone and neostigmine. Iwanaga Y, et al. **Gastroenterology** 1990 Aug;99(2):401–8

Ventilatory control during exercise with peripheral chemoreceptor stimulation: hypoxia vs. domperidone. Schaefer SL, et al. **J Appl Physiol** 1989 Dec;67(6):2438–46

Small dose of domperidone potentiated the effects of TRH and serotonin on prolactin release in ovariectomized, estrogen-treated rats. Pan JT, et al. **Neuroendocrinology** 1989 Oct;50(4):387–91

The influence of telenzepine on gastrointestinal transit: comparison with placebo and domperidone. Armbrecht U, et al. **Z Gastroenterol** 1990 Feb;28(2):85–9

[Anti-cholinesterase activity of dopamine D2 receptor antagonist: its clinical significance] Mizumoto A, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Aug;25(4):155–65 (Eng. Abstr.) (Jpn)

THERAPEUTIC USE

Use of metoclopramide, domperidone, and cisapride in the management of diabetic gastroparesis. Brown CK, et al. **Clin Pharm** 1990 May;9(5):357–65 (65 ref.)

Domperidone in chronic intestinal pseudoobstruction [letter] Turgeon DK. **Gastroenterology** 1990 Oct;99(4):1194

Domperidone. Cherian S, et al. **Indian Pediatr** 1989 Sep; 26(9):932–5 (24 ref.)

DONOVANOSIS see **GRANULOMA INGUINALE**

DOPA

The formation of singlet oxygen during oxidation of catechol amines as detected by infrared chemiluminescence and spectrophotometric method. Kruk I, et al. **Z Naturforsch [C]** 1989 Nov-Dec;44(11-12):895-900

ANALOGS & DERIVATIVES

Correlation between urinary melanin-related metabolites and tumour weight in melanoma-bearing mice. Ito S, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):380-4

Effect of prolonged intravenous infusion of gludopa in humans and a preliminary study of its oral bioavailability. Freestone S, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):126S-129S

Nigrostriatal function in humans studied with positron emission tomography. Martin WR, et al. **Ann Neurol** 1989 Oct;26(4):535-42

Positron emission tomography in manganese intoxication. Wolters EC, et al. **Ann Neurol** 1989 Nov;26(5):647-51

Oxidation of the substituted catechols dihydroxyphenylalanine methyl ester and trihydroxyphenylalanine by lactoperoxidase and its compounds. Metodiewa D, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):601-8

Comparative in vivo metabolism of 6-[18F]fluoro-L-dopa and [3H]L-dopa in rats. Melega WP, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1853-60

6-18F-L-dopa imaging of the dopamine neostriatal system in normal and clinically normal MPTP-treated rhesus monkeys. Doudet DJ, et al. **Exp Brain Res** 1989;78(1):69-80

Excitotoxicity of L-dopa and 6-OH-dopa: implications for Parkinson's and Huntington's diseases. Olney JW, et al. **Exp Neurol** 1990 Jun;108(3):269-72

Remote, semiautomated production of 6-[18F]fluoro-L-dopa for human studies with PET. Luxen A, et al. **Int J Rad Appl Instrum [A]** 1990;41(3):275-81

Labelled agents for PET studies of the dopaminergic system--some quality assurance methods, experience and issues. Pike VW, et al. **Int J Rad Appl Instrum [A]** 1990; 41(5):483-92

Bleaching of melanin pigments. Role of copper ions and hydrogen peroxide in autooxidation and photooxidation of synthetic dopa-melanin. Korytowski W, et al. **J Biol Chem** 1990 Jul 25;265(21):12410-6

Blood-brain transfer and metabolism of 6-[18F]fluoro-L-dopa in rat. Reith J, et al. **J Cereb Blood Flow Metab** 1990 Sep;10(5):707-19

Method for the determination of gamma-L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection. Cummings J, et al. **J Chromatogr** 1990 Jun 8;528(1):43-53

3,4-Dihydroxyphenylethylamine, L-3,4-dihydroxyphenylalanine and 3,4,5-trihydroxyphenylalanine: oxidation and binding to membranes. A comparative study of a neurotransmitter, a precursor and a neurotransmitter candidate in primitive nervous systems. Carlberg M. **J Neural Transm Gen Sect** 1990;81(2):111-9

An improved HPLC-electrochemical detection method for measuring brain levels of 5-S-cysteinyldopamine, 5-S-cysteinyl-3,4-dihydroxyphenylalanine, and 5-S-cysteinyl-3,4-dihydroxyphenylacetic acid. Fornstedt B, et al. **J Neurochem** 1990 Feb;54(2):578-86

No-carrier-added regioselective preparation of 6-[18F]fluoro-L-dopa. Lemaire C, et al. **J Nucl Med** 1990 Jul;31(7):1247-51

Pharmacokinetics, bioavailability, metabolism, tissue distribution and urinary excretion of gamma-L-glutamyl-L-dopa in the rat. Cummings J, et al. **J Pharm Pharmacol** 1990 Apr;42(4):242-6

Metabolism and vascular effects of gamma-L-glutamyl-L-dopa on the isolated rat kidney. Barthelmeba M, et al. **Kidney Int** 1990 Jun;37(6):1414-22

The effects of carbidopa on the metabolism of 6-[18F]fluoro-L-dopa in rats, monkeys and humans. Melega WP, et al. **Life Sci** 1990;47(2):149-57

The metabolic anatomy of Parkinson's disease: complementary [18F]fluorodeoxyglucose and [18F]fluorodopa positron emission tomographic studies. Eidelberg D, et al. **Mov Disord** 1990;5(3):203-13

Investigation by NMR spectroscopy of the interaction between synthetic soluble (-)-dopa melanin and drugs. Salazar-Bookaman MM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Nov; 340(5):576-82

A new redox cofactor in eukaryotic enzymes: 6-hydroxydopa at the active site of bovine serum amine oxidase. Janes SM, et al. **Science** 1990 May 25;248(4958):981-7

[Definitive diagnosis of early malignant melanoma lesions by the quantitative analysis of 5-S-cysteinyldopa in the tissue and touch fluorescence method] Kanematsu S, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Jun;99(7):783-91 (Eng. Abstr.) **(Jpn)**

[Biochemical diagnoses of malignant melanomas with determinations of 5-S-cysteinyldopa in lesions] Sameshima T, et al. **Nippon Hifuka Gakkai Zasshi** 1989 May; 99(6):665-72 (Eng. Abstr.) **(Jpn)**

[Perspectives in the treatment of arterial hypertension: interventions at the dopaminergic system level] Soares-da-Silva P. **Rev Port Cardiol** 1988 Mar-Apr; 7(2):191-210 (208 ref.) (Eng. Abstr.) **(Por)**

[Photo-induced destruction of DOPA-melanin] Korzhova LP, et al. **Biokhimiia** 1989 Jun;54(6):992-8 (Eng. Abstr.) **(Rus)**

ANALYSIS

Dopamine- and dopa-immunoreactive neurons in the cat forebrain with reference to tyrosine hydroxylase-immunohistochemistry. Kitahama K, et al. **Brain Res** 1990 Jun 4;518(1-2):83-94

BIOSYNTHESIS

Do tyrosine hydroxylase-immunoreactive neurons in the ventrolateral arcuate nucleus produce dopamine or only L-dopa? Meister B, et al. **J Chem Neuroanat** 1988 Jan-Feb; 1(1):59-64

BLOOD

Melperone and clozapine: neuroendocrine effects of atypical neuroleptic drugs. Meltzer HY, et al. **Acta Psychiatr Scand Suppl** 1989;352:24-9

Increased spillover of dopa into arterial blood during dietary salt loading. Grossman E, et al. **Clin Sci** 1990 Apr; 78(4):423-9

Plasma dihydroxyphenylalanine (DOPA) is independent of sympathetic activity in humans. Eldrup E, et al. **Eur J Clin Invest** 1989 Dec;19(6):514-7

Abnormal 3,4-dihydroxyphenylalanine (dopa) concentrations in plasma and urine of patients with cystic fibrosis. Schöni MH, et al. **Eur J Clin Invest** 1990 Jun;20(3):272-8

[Clinical significance of 3,4-dihydroxyphenylalanine analysis in endocrine tests of the adrenal medulla and sympathetic nervous system] Shigetomi S. **Nippon Rinsho** 1989 Dec;48 Suppl:1165-7 **(Jpn)**

METABOLISM

Fluorescent dopa reaction of nevi and melanomas. Falck B, et al. **Arch Dermatol** 1966 Sep;94(3):363-9

Studies on chemiluminescence in the enzymatic and autoxidative transformation of 3,4-dihydroxyphenylalanine into eumelanins. Villablanca M, et al. **J Biolumin Chemilumin** 1989 Oct-Dec;3(4):181-90

3,4-Dihydroxyphenylethylamine, L-3,4-dihydroxyphenylalanine and 3,4,5-trihydroxyphenylalanine: oxidation and binding to membranes. A comparative study of a neurotransmitter, a precursor and a neurotransmitter candidate in primitive nervous systems. Carlberg M. **J Neural Transm Gen Sect** 1990;81(2):111-9

Effect of 3,4-methylenedioxymethamphetamine on 3,4-dihydroxyphenylalanine accumulation in the striatum and nucleus accumbens. Nash JF, et al. **J Neurochem** 1990 Mar;54(3):1062-7

Activation of tuberoinfundibular dopamine neurons following the acute administration of atypical antipsychotics. Gudelsky GA, et al. **Neuropsychopharmacology** 1989 Mar;2(1):45-51

Tetrahydrobiopterin-dependent production of L-dopa in NRK fibroblasts transfected with tyrosine hydroxylase cDNA: future use for intracerebral grafting. Uchida K, et al. **Neurosci Lett** 1990 Feb 16;109(3):282-6

PHARMACOLOGY

Central aromatic amines and behavior. III. Correlative analysis of conditioned approach behavior and brain levels of serotonin and catecholamines in monkeys. Wada JA, et al. **Arch Neurol** 1966 Feb;14(2):129-42

Fetal dopamine neuron transplants prevent behavioral supersensitivity induced by repeated administration of L-dopa in the rat. Gaudin DP, et al. **Brain Res** 1990 Jan 1;506(1):166-8

Dopa and oxygen inhibit proliferation of retinal pigment epithelial cells, fibroblasts and endothelial cells in vitro. Akeo K, et al. **Exp Eye Res** 1989 Sep;49(3):335-46

[Modification of the cerebral electrical activity of the rabbit by micro-injections of monoamine precursors into bulbar and pontine sleep-producing structures] Ledebur IX, et al. **Electroencephalogr Clin Neurophysiol** 1966 Apr; 20(4):370-81 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Motor control in childhood onset dopa-responsive dystonia (Segawa syndrome). Müller K, et al. **Neuropediatrics** 1989 Nov;20(4):185-91

TOXICITY

[Iron-dependent cytotoxic effects of dopa on cultured neurons of the dorsal root ganglia] Tanaka M, et al. **Rinsho Shinkeigaku** 1990 Apr;30(4):379-83 (Eng. Abstr.) **(Jpn)**

URINE

[Excretion of catecholamines and DOPA in the urine of patients with pulmonary tuberculosis during chemotherapy] Prosvetov IuV. **Probl Tuberk** 1989; (10):46-9 (Eng. Abstr.) **(Rus)**

L-DOPA see **LEVODOPA**

DOPA DECARBOXYLASE see under **AROMATIC AMINO ACID DECARBOXYLASES**

DOPA OXIDASE see under **DIPHENOL OXIDASES**

DOPAMINE

A comparison of the crystal structures of some quaternary trimethylammonium salts related to dopamine and noradrenaline with those of the corresponding amines: a comment on their nicotine-like biological activities. Barlow RB, et al. **Acta Crystallogr B** 1989 Aug 1;45 (Pt 4):396-404

The formation of singlet oxygen during oxidation of catechol amines as detected by infrared chemiluminescence and spectrophotometric method. Kruk I, et al. **Z Naturforsch [C]** 1989 Nov-Dec;44(11-12):895-900

ADMINISTRATION & DOSAGE

Effect of dopamine, dopamine D-1 and D-2 receptor modulation on ACTH and cortisol levels in normal men and women. Boesgaard S, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):29-36

A cautionary note on the potential benefits of striatal dopamine implants [letter] Deutch AY, et al. **Ann Neurol** 1990 Jul;28(1):111

Response to dopamine and dobutamine in the preterm infant less than 30 weeks gestation. Miall-Allen VM, et al. **Crit Care Med** 1989 Nov;17(11):1166-9

Low dose dopamine in the treatment of persistent oliguria in pre-eclampsia. Katz VL, et al. **Int J Gynaecol Obstet** 1990 Jan;31(1):57-9

Implantable microencapsulated dopamine (DA): prolonged functional release of DA in denervated striatal tissue. McRae A, et al. **J Neural Transm Suppl** 1990;29:207-15

Stability of dopamine hydrochloride injection in the presence of dobutamine hydrochloride, tolazoline hydrochloride, and theophylline injections. Bhatt-Mehta V, et al. **J Perinatol** 1990 Jun;10(2):129-33

Transient dopamine withdrawal differentially potentiates thyrotropin releasing hormone-induced release of prolactin of various ages. Martinez de la Escalera G, et al. **Neuroendocrinology** 1990 Jun;51(6):694-9

Enhanced dopamine receptor activation in accumbens and frontal cortex has opposite effects on medial forebrain bundle self-stimulation. Olds ME. **Neuroscience** 1990; 35(2):313-25

[Effect of monoamine oxidase inhibitors on the concentrations of free and conjugated dopamine in rat small intestine and liver following exogenous dopamine administration] Morooka H. **Masui** 1989 Aug;38(8):1061-7 (Eng. Abstr.) **(Jpn)**

[Low-dose dopamine treatment of patients in nonketotic hyperosmolar hyperglycemic coma] Shimoda M, et al. **Neurol Med Chir (Tokyo)** 1989 Oct;29(10):890-4 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

High-dose phentolamine for extravasation of pressors [letter] Cooper BE. **Clin Pharm** 1989 Oct;8(10):689

Reversal of dopamine extravasation injury with topical nitroglycerin ointment. Denkler KA, et al. **Plast Reconstr Surg** 1989 Nov;84(5):811-3

ANALOGS & DERIVATIVES

Striatal kinetics of [11C]-(+)-nomifensine and 6-[18F]fluoro-L-dopa in Parkinson's disease measured with positron emission tomography. Tedroff J, et al. **Acta Neurol Scand** 1990 Jan;81(1):24-30

Dopamine, dopexamine and dobutamine as inotropic and automatotropic agents. Lengyel C, et al. **Acta Physiol Hung** 1990;75 Suppl:193-4

Usefulness of dopexamine hydrochloride versus dobutamine in chronic congestive heart failure and effects on hemodynamics and urine output. Baumann G, et al. **Am J Cardiol** 1990 Mar 15;65(11):748-54

Lack of sustained hemodynamic effects of the beta 2-adrenoceptor agonist dopexamine in end-stage congestive heart failure. Böhm M, et al. **Am J Cardiol** 1990 Feb 1;65(5):395-6

Renal and humoral effects of ibopamine, a dopamine agonist, in patients with liver cirrhosis. Salerno F, et al. **Arch Intern Med** 1990 Jan;150(1):65-9

Onset of cardiovascular action after oral ibopamine. Early hemodynamic effects of single and repeated doses in patients with idiopathic dilated myocardiopathy. Di Mario C, et al. **Arzneimittelforschung** 1990 Jun;40(6):661-6

Dynamic evaluation by TV-pupillometry of the mydriatic effect of ibopamine solution. Controlled studies. Micieli G, et al. **Arzneimittelforschung** 1990 Feb;40(2 Pt 1):150-6

Hemodynamic response to ibopamine in acute myocardial infarction. Taniguchi H, et al. **Arzneimittelforschung** 1990 Apr;40(4):428-31

Dopexamine in congestive heart failure: how do the pharmacological activities translate into the clinical situation? Meinertz T, et al. **Basic Res Cardiol** 1989;84 Suppl 1:177-86 (18 ref.)

Isomer specific kinetics of dopamine beta-hydroxylase and arylsulfatase towards catecholamine sulfates. Strobel G, et al. **Biochem Int** 1990;20(2):343-51

Sulphate conjugation in human liver. Direct measurement of N-acetyldopamine-sulphate. Khoo BY, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1021-6

The effects of dopexamine, a new dopamine analogue, on platelet function in stress. Wagaine-Twabwe D, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):87-95

Measurement of 3-methoxytyramine by in vivo voltammetry: evidence for differences in central dopamine function in BALB/c and CBA mice. Crespi F, et al. **Brain Res** 1989 Oct 23;500(1-2):241-6

Dopexamine in cardiorespiratory failure. Commentary on drug research in the critically ill [editorial; comment] Leier CV. **Chest** 1989 Dec;96(6):1219 Comment on: Chest 1989 Dec;96(6):1233-6.

Administration of dopexamine, a new adrenergic agent, in cardiorespiratory failure [see comments] Vincent JL, et al. **Chest** 1989 Dec;96(6):1233-6 Comment in: Chest 1989 Dec;96(6):1219.

Use of dopexamine hydrochloride in patients with septic shock. Colardyn FC, et al. **Crit Care Med** 1989 Oct; 17(10):999-1003

Effects of dopexamine hydrochloride on hypoxic pulmonary vasoconstriction in isolated rat lung. McCormack DG, et al. **Crit Care Med** 1990 May;18(5):520-3

Disposition of a new orally active dopamine prodrug, N-(N-acetyl-L-methionyl)-O,O-bis(ethoxycarbonyl) dopamine (TA-870) in humans. Yoshikawa M, et al. **Drug Metab Dispos** 1990 Mar-Apr;18(2):212-7

Dopexamine hydrochloride. A review of its pharmacodynamic and pharmacokinetic properties and therapeutic potential in acute cardiac insufficiency. Fitton A, et al. **Drugs** 1990 Feb;39(2):308-30 (61 ref.)

N-acetyldopamine quinone methide/1,2-dehydro-N-acetyl dopamine tautomerase. A new enzyme involved in sclerotization of insect cuticle. Saul SJ, et al. **FEBS Lett** 1989 Sep 25;255(2):340-4

Effect of the inhibition of dopamine uptake on the dopamine- and dimethyldopamine-induced-inhibition of the potassium-evoked release of [3H]acetylcholine from striatal slices. Farooqui T, et al. **Gen Pharmacol** 1989;20(6):731-6

Effects of prolonged infusion of dopexamine on beta 1- and beta 2-adrenoceptors in guinea-pig myocardium. Williams DW, et al. **J Auton Pharmacol** 1990 Jun;10(3):127-37

Ibopamine vs. digoxin in chronic heart failure: a double-blind, crossover study. Alicandri C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S77-82

Reduced effects of dopexamine on force of contraction in the failing human heart despite preserved beta 2-adrenoceptor subpopulation. Böhm M, et al. **J Cardiovasc Pharmacol** 1989 Oct;14(4):549-59

Absence of proarrhythmic effects of ibopamine in patients with congestive heart failure. Caponnetto S, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S104-10

The long-term efficacy of ibopamine in treating patients with severe heart failure: a multicenter investigation. Condorelli M, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S83-92

Efficacy of ibopamine treatment in patients with advanced heart failure: purpose of a new therapeutic scheme with multiple daily administrations. Dei Cas L, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S111-7

Inhibition of aldosterone secretion by dopamine, ibopamine, and dihydroergotoxine in patients with congestive heart failure. Missale C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S72-6

A novel orally active dopamine prodrug TA-870. III. Positive inotropic effect and cardiorenal selectivity in anesthetized dogs. Nishiyama S, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):283-90

Long-term therapy of chronic congestive heart failure with ibopamine: a multicenter trial. Rolandi E, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S93-103

Pharmacotherapeutic profile of ibopamine in heart failure. Taylor SH. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S118-23 (24 ref.)

A novel orally active dopamine prodrug TA-870. I. Renal and cardiovascular effects and plasma levels of free dopamine in dogs and rats. Yamaguchi I, et al. **J Cardiovasc Pharmacol** 1989 Jun;13(6):879-86

An improved HPLC-electrochemical detection method for measuring brain levels of 5-S-cysteinyldopamine, 5-S-cysteinyl-3,4-dihydroxyphenylalanine, and 5-S-cysteinyl-3,4-dihydroxyphenylacetic acid. Fornstedt B, et al. **J Neurochem** 1990 Feb;54(2):578-86

Bioavailability and pharmacokinetics of an oral dopamine prodrug in dogs. Murata K, et al. **J Pharm Sci** 1989 Oct; 78(10):812-4

Metabolism of a new orally active dopamine prodrug, N-(N-acetyl-L-methionyl)-O,O-bis(ethoxycarbonyl) dopamine (TA-870) and dopamine after oral administration to rats and dogs. Yoshikawa M, et al. **J Pharmacobiodyn** 1990 Apr;13(4):246-53

Contrasting effects of dopexamine hydrochloride on electrolyte excretion in canine kidney. Bass AS. **J Pharmacol Exp Ther** 1990 May;253(2):798-802

Stress-induced decrease of 3-methoxytyramine in the nucleus accumbens of the mouse is prevented by naltrexone pretreatment. Cabib S, et al. **Life Sci** 1989;45(12):1031-7

Effects of tyrosinase activity on the cytotoxicity of 3,4-dihydroxybenzylamine and buthionine sulfoximine in human melanoma cells. Prezioso JA, et al. **Pigment Cell Res** 1990 Mar-Apr;3(2):49-54

Reduction of 3-methoxytyramine concentrations in the caudate nucleus of rats after exposure to high-energy iron particles: evidence for deficits in dopaminergic neurons. Hunt WA, et al. **Radiat Res** 1990 Feb;121(2):169-74

[Synthesis and cardiovascular activities of peptidyl dopamine derivatives] Gao DM, et al. **Yao Hsueh Hsueh Pao** 1989; 24(6):422-30 (Eng. Abstr.) **(Chi)**

[Dopexamine, a new inotropic agent for treatment of low output syndromes after cardiac surgery] du Gres B, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R232 **(Fre)**

[Septic shock: hemodynamic effects of noradrenaline and a noradrenaline-dopexamine combination] Nouira S, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R234 **(Fre)**

[Acute reduction of increased atrial natriuretic peptide level and cyclic guanosine monophosphate in patients with chronic heart failure caused by beta-adrenergic stimulation with dopexamine hydrochloride. Correlation with hemodynamic parameters] Stangl K, et al. **Z Kardiol** 1990 Jun;79(6):417-23 (Eng. Abstr.) **(Ger)**

[Renal effects of ibopamine in comparison with furosemide in patients with mild heart failure] Wehling M, et al. **Z Kardiol** 1990 Feb;79(2):120-5 (Eng. Abstr.) **(Ger)**

ANALYSIS

Effect of dexamethasone on neurotransmitter amines in a rat glioma model. Chang CC, et al. **Adv Neurol** 1990;52:483-9

Brain neurotransmitter changes in three patients who had a fatal hyperthermia syndrome. Kish SJ, et al. **Am J Psychiatry** 1990 Oct;147(10):1358-63

Determination of dopamine, norepinephrine, and related trace amines by prechromatographic derivatization with naphthalene-2,3-dicarboxaldehyde. Kawasaki T, et al. **Anal Biochem** 1989 Aug 1;180(2):279-85

Surface-enhanced Raman scattering of dopamine at polymer-coated silver electrodes. McGlashen ML, et al. **Anal Chem** 1990 Apr 15;62(8):846-9

Measurement of nanomolar dopamine diffusion using low-noise perfluorinated ionomer coated carbon fiber microelectrodes and high-speed cyclic voltammetry. Rice ME, et al. **Anal Chem** 1989 Sep 1;61(17):1805-10

Dopamine- and dopa-immunoreactive neurons in the cat forebrain with reference to tyrosine hydroxylase-immunohistochemistry. Kitahama K, et al. **Brain Res** 1990 Jun 4;518(1-2):83-94

Topographical relationships between catecholamine- and neuropeptide-containing fibers in the median eminence of the newt, Triturus alpestris. An ultrastructural immunocytochemical study. Corio M, et al. **Cell Tissue Res** 1990 Mar;259(3):561-6

The concentration of dopamine and related monoamines in arteries and some other tissues of the sheep. Juorio AV, et al. **Comp Biochem Physiol [C]** 1990;95(1):35-7

Dopamine and octopamine in whole body extracts of the bulb mite. Knowles CO, et al. **Experientia** 1990 Feb 15; 46(2):205-7

Location of sites of dopamine storage in megakaryocytes by autoradiography. Daimon T, et al. **Histochemistry** 1990; 93(3):263-7

Presence of dopamine-immunoreactive cell bodies in the catecholaminergic group A15 of the sheep brain. Tillet Y, et al. **Histochemistry** 1990;93(3):327-33

Immunohistochemistry of endogenous L-DOPA in the rat posterior hypothalamus. Tison F, et al. **Histochemistry** 1990;93(6):655-60

Distribution of dopamine-immunoreactive neuronal perikarya and fibres in the brain of a teleost, Gasterosteus aculeatus L. comparison with tyrosine hydroxylase- and dopamine-beta-hydroxylase-immunoreactive neurons. Ekström P, et al. **J Chem Neuroanat** 1990 Jul-Aug; 3(4):233-60

Dopamine-immunoreactive neurons in the blowfly visual system: light and electron microscopic immunocytochemistry. Nässel DR, et al. **J Chem Neuroanat** 1988 Nov-Dec;1(6):311-25

Method for the determination of gamma-L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection. Cummings J, et al. **J Chromatogr** 1990 Jun 8;528(1):43-53

Effect of long-lasting diabetes mellitus on rat and human brain monoamines. Lacković Z, et al. **J Neurochem** 1990 Jan;54(1):143-7

High-performance liquid chromatographic analysis of catecholamines in biological samples by liquid/liquid extraction prepurification. Tsuchiya H, et al. **J Pharmacol Methods** 1990 Mar;23(1):21-30

Alterations in concentrations of dihydroxyphenylacetic acid in the median eminence of rats euthanatized with pentobarbital. Zinn SA, et al. **Lab Anim Sci** 1989 Sep; 39(5):417-9

Dopamine agonist-induced elevation of striatal acetylcholine: relationship between receptor occupancy and response in normal and denervated rat striatum. Enz A, et al. **Mol Pharmacol** 1990 Apr;37(4):560-5

Stress-induced suppression of the prolactin afternoon surge in ovariectomized, estrogen-treated rats and the nocturnal surge in pseudopregnant rats are accompanied by an increase in median eminence dihydroxyphenylacetic acid concentrations. Morehead MH, et al. **Neuroendocrinology** 1990 Feb;51(2):208-12

Functional difference in monoamine transmitters in the behaviorally abnormal mouse mutant (wriggle mouse sagami). Ishikawa K, et al. **Neurosci Lett** 1989 Sep 11; 103(3):343-8

Are putative dopamine-accumulating cell bodies in the hypothalamic periventricular organ a primitive brain character of non-mammalian vertebrates? Smeets WJ, et al. **Neurosci Lett** 1990 Jul 13;114(3):248-52

Monoamines in pancreatic islets of guinea pig, hamster, rat, and mouse determined by high performance liquid chromatography. Lundquist I, et al. **Pancreas** 1989; 4(6):662-7

Effect of isolation on brain monoamines and the behavior of mice in tests of exploration, locomotion, anxiety and behavioral 'despair'. Hilakivi LA, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):371-4

Analysis of serotonin, dopamine and their metabolites in the caudate putamen, the suprachiasmatic nucleus and the median raphe nucleus of euthermic and torpid deermice, Peromyscus maniculatus. Lin LH, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):309-14

Milacemide increases 5-hydroxytryptamine and dopamine levels in rat brain—possible mechanisms of milacemide antimyoclonic property in the p,p'-DDT-induced myoclonus. Truong DD, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):993-1001

Dissociation between biochemical and behavioral recovery in MPTP-treated mice. Weihmuller FB, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):113-7

Spectrophotometric determination of dopamine with thiosemicarbazide. Marković S, et al. **Pharmazie** 1990 Apr; 45(4):292-3

Dopamine synaptic complex with pyramidal neurons in primate cerebral cortex. Goldman-Rakic PS, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):9015-9

Prolactin regulation of dopaminergic neurons in the infundibulum pituitary stalk of bull calves. Zinn SA, et al. **Proc Soc Exp Biol Med** 1990 Feb;193(2):98-103

Differentiation gradient of dopaminergic neurons in substantia nigra of rat. Sen HA. **Shih Yen Sheng Wu Hsueh Pao** 1990 Mar;23(1):83-93

Tolls are inadequate to investigate ACh-DA controversy [letter] Webster RA. **Trends Pharmacol Sci** 1989 Oct; 10(10):395

[Recent contributions concerning the development and distribution of dopaminergic innervation in the cerebral cortex of the rat] Berger B, et al. **Cellule** 1987;74:291-305 (Eng. Abstr.) **(Fre)**

[Simultaneous detection of tryptamine and dopamine in the substantia nigra and raphe nuclei in rats using specific antibodies] Dabadie H, et al. **Therapie** 1990 May-Jun; 45(3):287-90 (Eng. Abstr.) **(Fre)**

[The serotonin and dopamine content of helminths in different classes] Terenina NB. **Zh Evol Biokhim Fiziol** 1989 Sep-Oct;25(5):566-71 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Effects of a dopamine antagonist (metoclopramide) on the release of LH, FSH, TSH and PRL in normal women throughout the menstrual cycle. Seki K, et al. **Acta Endocrinol (Copenh)** 1990 Feb;122(2):211-6

The ontogeny of SCH 23390-induced catalepsy in male and female rats exposed to ethanol in utero. Hannigan JH. **Alcohol** 1990 Jan-Feb;7(1):11-6

Sodium homeostasis and hormonal responses during dopaminergic blockade in normal humans. Coruzzi P, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):87S-89S

Effects of central and peripheral dopamine antagonism on aldosterone secretion: evidence for adrenal mechanism. Stern N, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E588-94

Effects of dopamine depletion from the caudate-putamen and nucleus accumbens septi on the acquisition and performance of a conditional discrimination task. Robbins TW, et al. **Behav Brain Res** 1990 May 28;38(3):243-61

Chronic administration of SCH 23390 enhances spontaneous searching and locomotor activity of rats. An open field study. Smialowski A. **Behav Brain Res** 1989 Oct 1; 35(1):41-4

Evaluation of the interaction between D1 and D2 receptors in a drug discrimination paradigm. Williams JE, et al. **Behav Neural Biol** 1990 May;53(3):378-92

The development of computer simulations of the geometries and thermodynamics of biological molecules. Froimowitz M. **Biotechniques** 1990 Jun;8(6):640-4, 649-52 (80 ref.)

Modulation of acetylcholine release by D1, D2 dopamine receptors in rat striatum under freely moving conditions. Ajima A, et al. **Brain Res** 1990 Jun 4;518(1-2):193-8

Ca2+ dependence of the amphetamine, nomifensine, and Lu 19-005 effect on in vivo dopamine transmission. Hurd YL, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):261-9

In vivo neurochemical profile of dopamine uptake inhibitors and releasers in rat caudate-putamen. Hurd YL, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):251-60

Effects of dopamine D1 and D2 agonists and antagonists injected into the nucleus accumbens and globus pallidus on jaw movements of rats. Koshikawa N, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):375-80

Emetic activity of zacopride in ferrets and its antagonism by pharmacological agents. Sancilio LF, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):303-6

Dopamine D-1 and D-2 receptor agonists and antagonists and neuropeptide-induced excessive grooming. Van Wimersma Greidanus TB, et al. **Eur J Pharmacol** 1989 Dec 7;173(2-3):227-31

Relationship between the effects of dexamphetamine on locomotion and on striatal [3H]GBR 12783 binding in vivo. Vaugeois JM, et al. **Eur J Pharmacol** 1990 Mar 20; 178(2):221–7

Effects induced by chronic treatment with selective D1 or D2 antagonists on open–field behavior and colonic temperature. Maldonado R, et al. **Fundam Clin Pharmacol** 1990;4(3):341–56

Electrotherapy in mice: dopaminergic and noradrenergic effects in the Tail Suspension Test. Teste JF, et al. **Fundam Clin Pharmacol** 1990;4(1):39–47

A novel water–soluble dopamine–2 antagonist with anticholinesterase activity in gastrointestinal motor activity. Comparison with domperidone and neostigmine. Iwanaga Y, et al. **Gastroenterology** 1990 Aug;99(2):401–8

MPTP–induced duodenal ulcers in rat. Prevention by reuptake blockers for serotonin and norepinephrine, but not dopamine. Keshavarzian A, et al. **Gastroenterology** 1990 Mar;98(3):554–60

Effect of the inhibition of dopamine uptake on the dopamine– and dimethyldopamine–induced–inhibition of the potassium–evoked release of [3H]acetylcholine from striatal slices. Farooqui T, et al. **Gen Pharmacol** 1989;20(6):731–6

Radiosynthesis of high effective specific–activity [123I]SCH 23982 for dopamine D–1 receptor–based SPECT imaging. Moerlein SM, et al. **Int J Rad Appl Instrum [A]** 1990; 41(4):381–5

3–(2'–[18F]fluoroethyl)spiperone, a potent dopamine antagonist: synthesis, structural analysis and in–vivo utilization in humans. Satyamurthy N, et al. **Int J Rad Appl Instrum [A]** 1990;41(2):113–29

The role of pharmacotherapy in anorexia nervosa and bulimia. Tolstoi LG. **J Am Diet Assoc** 1989 Nov; 89(11):1640–6 (46 ref.)

Potential antipsychotic agents 5. Synthesis and antidopaminergic properties of substituted 5,6–dimethoxysalicylamides and related compounds. Högberg T, et al. **J Med Chem** 1990 Apr;33(4):1155–63

Potential antipsychotic agents. 7. Synthesis and antidopaminergic properties of the atypical highly potent (S)–5–bromo–2,3–dimethoxy–N–[(1–ethyl–2–pyrrolidinyl) methyl]benzamide and related compounds. A comparative study. Högberg T, et al. **J Med Chem** 1990 Aug; 33(8):2305–9

Conformational analysis and structure–activity relationships of selective dopamine D–1 receptor agonists and antagonists of the benzazepine series. Pettersson I, et al. **J Med Chem** 1990 Aug;33(8):2197–204

Kinetics and block of dopamine uptake in synaptosomes from rat caudate nucleus. Krueger BK. **J Neurochem** 1990 Jul; 55(1):260–7

Effects of dopamine antagonists on neuronal activity related to a delayed response task in monkey prefrontal cortex. Sawaguchi T, et al. **J Neurophysiol** 1990 Jun;63(6):1401–12

Effects of dopamine antagonists injected through vortex veins on intraocular pressure. Chiou GC, et al. **J Ocul Pharmacol** 1989 Winter;5(4):281–91

Modification of brain and spinal cord dopamine D1 receptors labeled with [3H]SCH 23390 after morphine withdrawal from tolerant and physically dependent rats. Bhargava HN, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):901–7

Thermodynamic analyses of the binding of substrates and uptake inhibitors on the neuronal carrier of dopamine labeled with [3H]GBR 12783 or [3H]mazindol. Bonnet JJ, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1206–14

Pharmacological evaluation of SCH–12679: evidence for an in vivo antagonism of D1–dopamine receptors. Breese GR, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):558–67

Electrophysiological effects of selective D1 and D2 dopamine receptor agonists in the medial prefrontal cortex of young and aged Fischer 344 rats. Parfitt KD, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):539–45

Characterization of D1 dopamine receptors in the bovine pineal gland with [3H]SCH 23390. Simonneaux V, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):214–20

Pharmacological actions of SM–9018, a new neuroleptic drug with both potent 5–hydroxytryptamine2 and dopamine2 antagonistic actions. Hirose A, et al. **Jpn J Pharmacol** 1990 Jul;53(3):321–9

Antidopaminergic action of verapamil and several other drugs: inactivation of vesicular dopamine. Bagchi SP. **Life Sci** 1990;46(12):857–63

[125]I–spectramide: a novel benzamide displaying potent and selective effects at the D2 dopamine receptor. Sánchez–Roa PM, et al. **Life Sci** 1989;45(19):1821–9

Desenkephalin–gamma–endorphin is an antagonist of the hyperactivity response induced by infusion of dopamine into the nucleus accumbens of rat and ventral striatum of marmoset. Costall B, et al. **Neuropharmacology** 1989 Nov; 28(11):1223–9

Potentiation of apomorphine–induced stereotyped behaviour by acute treatment with dopamine depleting agents: a potential role for an increased stimulation of D1 dopamine receptors. Vasse M, et al. **Neuropharmacology** 1989 Sep; 28(9):931–9

Sleep during acute dopamine D1 agonist SKF 38393 or D1 antagonist SCH 23390 administration in rats. Monti JM, et al. **Neuropsychopharmacology** 1990 Jun;3(3):153–62

Effects of D1 and D2 dopamine antagonists on heroin–trained drug discrimination. Corrigall WA, et al. **NIDA Res Monogr** 1989;95:499

Studies on D1 and D2 dopamine receptor involvement in conditioned taste aversions. Asin KE, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1033–41

Mediation of rat postejaculatory 22 kHz ultrasonic vocalization by dopamine D2 receptors. Cagiano R, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):53–8

Selective D1 and D2 dopamine antagonists decrease response rates of food–maintained behavior and reduce the discriminative stimulus produced by heroin. Corrigall WA, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):351–5

Opposite effects of SK&F 38393, a dopamine D–1 agonist, and SCH 23390, a dopamine D–1 antagonist, in tests of salt preference/aversion in the rehydrating rat. Gilbert DB, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):945–8

Unilateral inactivation of dopamine receptors after intrastriatal injection of N–ethoxy–carbonyl–2–ethoxy–1,2–dihydroquinoline (EEDQ): a novel rotational model to investigate dopamine receptor interactions. Giorgi O, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):877–84

The effects of selective dopamine D1 or D2 receptor antagonists on the establishment of agonist–induced place conditioning in rats. Hoffman DC, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):273–9

Effects of dopamine D1 and D2 receptor antagonists on oral activity in rats. Levin ED, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):43–8

D1 and D2 dopamine receptor interactions with pilocarpine–induced oral activity in rats. Levin ED, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):501–5

Differential attenuation of water intake and water–rewarded operant responding by repeated administration of haloperidol and SCH 23390 in the rat. Ljungberg T. **Pharmacol Biochem Behav** 1990 Jan;35(1):111–5

Effects of the dopamine D–1 antagonist SCH 23390 on water intake, water–rewarded operant responding and apomorphine–induced decrease of water intake in rats. Ljungberg T. **Pharmacol Biochem Behav** 1989 Jul; 33(3):709–12

Spiroxatrine augments fluoxetine–induced reduction of ethanol intake by the P line of rats. McBride WJ, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):381–6

The role of D1 and D2 receptors in dopamine agonist–induced modulation of affective defense behavior in the cat. Sweidan S, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):491–9

Dopamine antagonist speeds up tail regeneration in lizards exposed to continuous darkness: evidence for prolactin involvement. Ndukuba PI, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):145–52

The effects of selective dopamine D–1 and D–2 antagonists on the locomotor response and brain monoamine changes induced by naloxone–precipitated morphine withdrawal in guinea pigs. Brent PJ, et al. **Prog Clin Biol Res** 1990; 328:515–8

Enkephalin–dopamine interactions in behavioral arousal. Katz RJ, et al. **Prog Neuropsychopharmacol** 1979;3(4):395–8

Animal pharmacology of raclopride, a selective dopamine D2 antagonist. Hall H, et al. **Psychopharmacol Ser** 1989; 7:123–30 (18 ref.)

Radial–arm maze performance in rats is impaired by a combination of nicotinic–cholinergic and D2 dopaminergic antagonist drugs. McGurk SR, et al. **Psychopharmacology (Berl)** 1989;99(3):371–3

Blockade of 8–OH–DPAT–induced feeding by dopamine antagonists. Muscat R, et al. **Psychopharmacology (Berl)** 1989;99(3):402–8

A matching law analysis of the effects of dopamine receptor antagonists. Willner P, et al. **Psychopharmacology (Berl)** 1990;101(4):560–7

Evaluation of the teratogenic potential of the dopamine agonist bromocriptine in rats. Narburgh LJ, et al. **Toxicol Lett** 1990 Feb;50(2–3):189–94

[An experimental study of the ocular hypotensive action of dopaminergic antagonists] Xia XP. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):171–4 (Eng. Abstr.) **(Chi)**

[Piracetam: effect on posthypoxic inhibition of dopamine and acetylcholine release of striatum sections of the rat] Malais P, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):302–5 **(Fre)**

[Interactions of GABAergic and catecholaminergic neurotransmissions. Effects of dopaminergic and noradrenergic agonists and antagonists on GABA turnover] Bernasconi R, et al. **Encephale** 1989 Jul–Aug;15(4):377–85 (Eng. Abstr.) **(Fre)**

BIOSYNTHESIS

Renal dopamine synthesis from precursors. Barthelmebs M, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):18S–21S

Origin of dopamine in the rat adrenal cortex. Buu NT, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):F287–91

Fluoxetine and side effects [letter] Baldessarini RJ, et al. **Arch Gen Psychiatry** 1990 Feb;47(2):191–2

Effect of amperozide on the dopamine synthesis activity in the tuberoinfundibular neurons. Andersson G, et al. **Arzneimittelforschung** 1990 Mar;40(3):237–9

Regulation of the synthesis and metabolism of striatal dopamine after disruption of nerve conduction in the medial forebrain bundle. Commissiong JW, et al. **Br J Pharmacol** 1990 Apr;99(4):741–9

Distribution of catecholamine–synthesizing enzymes in goldfish brains: presumptive dopamine and norepinephrine neuronal organization. Hornby PJ, et al. **Brain Behav Evol** 1990;35(1):49–64

Differential recovery of dopamine synthetic enzymes following MPTP and the consequences of GM1 ganglioside treatment. Hadjiconstantinou M, et al. **Eur J Pharmacol** 1990 May 31;181(1–2):137–9

Do tyrosine hydroxylase–immunoreactive neurons in the ventrolateral arcuate nucleus produce dopamine or only L–dopa? Meister B, et al. **J Chem Neuroanat** 1988 Jan–Feb; 1(1):59–64

The control of 5–hydroxytryptamine and dopamine synthesis in the brain: a theoretical approach. Hommes FA, et al. **J Inherited Metab Dis** 1990;13(1):37–57

L–dopa facilitates the release of endogenous norepinephrine and dopamine via presynaptic beta 1– and beta 2–adrenoceptors under essentially complete inhibition of L–aromatic amino acid decarboxylase in rat hypothalamic slices. Goshima Y, et al. **Jpn J Pharmacol** 1990 May; 53(1):47–56

Presynaptic inhibition of dopamine synthesis in rat striatal tissue by enantiomeric mono– and dihydroxyaporphines. Booth RG, et al. **Mol Pharmacol** 1990 Jul;38(1):92–101

Regulation of dopamine and serotonin synthesis by acute administration of cocaine. Galloway MP. **Synapse** 1990; 6(1):63–72

[Reconstruction of brain function by transplantation of catecholamine producing cells] Nishino H, et al. **Yakubutsu Seishin Kodo** 1989 Sep;9(3):311–8 **(Jpn)**

BLOOD

Peripheral dopamine in essential hypertension. An early defense against hypertension failing during its progression? Kuchel O. **Am J Hypertens** 1990 Jun;3(6 Pt 2):104S–107S

Platelet catecholamine contents are cumulative indexes of sympathoadrenal activity. Chamberlain KG, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):E141–7

Ascorbic acid suppresses the deconjugation of noradrenaline but not dopamine in plasma. Okada M, et al. **Anal Biochem** 1989 Nov 1;182(2):262–5

Plasma noradrenaline and dopamine in renin–mediated hypertension. Herlitz H, et al. **Clin Physiol** 1990 Jan; 10(1):27–36

Catecholamines: study of interspecies variation. Hart BB, et al. **Crit Care Med** 1989 Nov;17(11):1203–22 (221 ref.)

Dopamine uptake by the human platelet: effects of dopamine receptor agonists. Dean B, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):165–9

A novel orally active dopamine prodrug TA–870. I. Renal and cardiovascular effects and plasma levels of free dopamine in dogs and rats. Yamaguchi I, et al. **J Cardiovasc Pharmacol** 1989 Jun;13(6):879–86

Role of plasma catecholamines in eliciting cardiovascular changes seen during naloxone–precipitated withdrawal in conscious, unrestrained morphine–dependent rats. Chang AP, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):857–63

Plasma dopamine response to sympathetic activation in man: a biphasic pattern. Musso NR, et al. **Life Sci** 1990; 47(7):619–26

Exercise training produces changes in free and conjugated catecholamines. Bauer BA, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):558–62

Auditory evoked potential modifications according to clinical and biochemical responsiveness to fenfluramine treatment in children with autistic behavior. Bruneau N, et al. **Neuropsychobiology** 1989;21(1):48–52

[Effect of qigong exercise on the blood level of monoamine neuro–transmitters in patients with chronic diseases] Liu B, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr; 10(4):203–5, 195 (Eng. Abstr.) **(Chi)**

[Effect of isoptin on catecholamine levels in arterial and coronary venous blood during an attack of myocardial ischemia] Vakhlisev VD, et al. **Kardiologiia** 1989 Jul; 29(7):67–70 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Correlations between cisternal CSF and plasma concentrations of HVA, MHPG, 5–HIAA, DA, and NA. Degrell I, et al. **Biol Psychiatry** 1990 May 15; 27(10):1179–82

Dopamine in the cerebrospinal fluid of prepubertal and adult horses. Melrose PA, et al. **Brain Behav Evol** 1990; 35(2):98–106

[Effects of thyrotropin–releasing hormone on neurologic recovery and biogenic amine metabolites of cerebrospinal fluid in spinal disorders] Hirofuji E, et al. **Nippon Seikeigeka Gakkai Zasshi** 1989 Nov;63(11):1306–15 (Eng. Abstr.) **(Jpn)**

DEFICIENCY

Effect of forebrain dopamine depletion on novelty–induced place preference behavior in rats. Pierce RC, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):321–5

Unilateral dopamine depletion causes bilateral deficits in conditioned rotation in rats. Richards JB, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):217–23

Dopamine deficiency in self–injurious behavior. Breese GR, et al. **Psychopharmacol Bull** 1989;25(3):353–7 (23 ref.)

Visual deficits related to dopamine deficiency in experimental animals and Parkinson's disease patients. Bodis–Wollner I. **Trends Neurosci** 1990 Jul;13(7):296–302 (68 ref.)

Severe hypotension in disseminated colon cancer due to a

possible decreased dopamine brain content: a case report. Lissoni P, et al. **Tumori** 1990 Aug 31;76(4):398–9
[Dopamine deficiency syndrome in children with specific reaction to the treatment with levodopa preparations] Shoshina LM, et al. **Zh Nevropatol Psikhiatr** 1989; 89(8):27–32 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Synaptic connections of dopamine–immunoreactive neurons in the antennal lobes of Periplaneta americana. Colocalization with GABA–like immunoreactivity. Distler P. **Histochemistry** 1990;93(4):401–8

METABOLISM

Chronic modification of dopaminergic transmission and its effects on binding characteristics of dopamine transporter ligand 3H–GBR 12783 in the striatum. Valchář M, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):273–4
Parkinson's disease: an immunohistochemical study of Lewy body–containing neurons in the enteric nervous system. Wakabayashi K, et al. **Acta Neuropathol (Berl)** 1990; 79(6):581–3
Dihydropyridine calcium antagonists prevent cocaine–, but not amphetamine–, induced dopamine release and motor activity in rats. Rossetti ZL, et al. **Acta Physiol Hung** 1990; 75 Suppl:249–50
Effect of angiotensin II on the Vogel conflict paradigm and on the content of dopamine and noradrenaline in rat brain. Georgiev V, et al. **Acta Physiol Pharmacol Bulg** 1990; 16(1):32–7
Changes in the serotonin, dopamine and noradrenaline levels in the cerebral cortex of rats trained for active and passive avoidance. Petkov VV, et al.
Acta Physiol Pharmacol Bulg 1989;15(2):28–32
Central monoamine dysfunction in diabetes: psychotherapeutic implications: electroanalysis by voltammetry. Broderick PA, et al.
Acta Physiol Pharmacol Latinoam 1989;39(3):211–25
Hypoxanthine accumulation and dopamine depletion in Lesch–Nyhan disease. Palmour RM, et al.
Adv Exp Med Biol 1989;253A:165–72
Effect of ethanol on brain catecholamines in rat lines developed for differential ethanol–induced motor impairment. Hellevuo K, et al. **Alcohol** 1990 Mar–Apr; 7(2):159–63
Renal dopamine containing nerves. What is their functional significance? DiBona GF. **Am J Hypertens** 1990 Jun;3(6 Pt 2):64S–67S (17 ref.)
Renal dopamine and sodium excretion. Hegde SS, et al.
Am J Hypertens 1990 Jun;3(6 Pt 2):78S–81S
Ethnic differences in the renal sodium dopamine relationship. A possible explanation for regional variations in the prevalence of hypertension? Lee MR, et al.
Am J Hypertens 1990 Jun;3(6 Pt 2):100S–103S
Synthesis and metabolism of dopamine in the kidney. Effects of sodium chloride, monoamine oxidase inhibitors and alpha–human atrial natriuretic peptide. Soares–da–Silva P, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):7S–10S (15 ref.)
Ventricular vulnerability in diabetes and myocardial norepinephrine release. Fusilli L, et al. **Am J Med Sci** 1989 Oct;298(4):207–14
Immunocytochemical analysis of the dopamine system in the brain and spinal cord of the European eel, Anguilla anguilla. Roberts BL, et al. **Anat Embryol (Berl)** 1989; 180(4):401–12
Voluntary alcohol drinking increases brain dopamine metabolism in rats. Colombo G, et al.
Ann Ist Super Sanita 1990;26(1):95–8
Deprenyl suppresses the oxidant stress associated with increased dopamine turnover. Cohen G, et al.
Ann Neurol 1989 Nov;26(5):689–90
Immunohistochemical study of the striatal efferents and nigral dopaminergic neurons in parkinsonism–dementia complex on Guam in comparison with those in Parkinson's and Alzheimer's diseases. Goto S, et al. **Ann Neurol** 1990 May;27(5):520–7
Subdivisional involvement of nigrostriatal loop in idiopathic Parkinson's disease and striatonigral degeneration. Goto S, et al. **Ann Neurol** 1989 Dec;26(6):766–70
Striatal dopamine deficiency in Parkinson's disease: role of aging. Scherman D, et al. **Ann Neurol** 1989 Oct;26(4):551–7
The dopamine transporter and cytochrome P45OIID1 (debrisoquine 4–hydroxylase) in brain: resolution and identification of two distinct [3H]GBR–12935 binding proteins. Niznik HB, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):424–32
Transplantation of human fetal dopamine cells for Parkinson's disease. Results at 1 year. Freed CR, et al.
Arch Neurol 1990 May;47(5):505–12
Paradoxical kinesia in parkinsonism is not caused by dopamine release. Studies in an animal model. Keefe KA, et al. **Arch Neurol** 1989 Oct;46(10):1070–5
Positron emission tomographic scanning demonstrates a presynaptic dopaminergic lesion in Lytico–Bodig. The amyotrophic lateral sclerosis–parkinsonism–dementia complex of Guam. Snow BJ, et al. **Arch Neurol** 1990 Aug; 47(8):870–4
Alterations in the metabolism of serotonin and dopamine in the central nervous system of mice displaying a persistent dyskinesia due to crotononitrile or 2–pentenenitrile. Tanii H, et al. **Arch Toxicol** 1990;64(3):231–6
Metabolism of amniotic fluid dopamine by fetal membranes. Kawada A, et al. **Asia Oceania J Obstet Gynaecol** 1989 Sep;15(3):291–8
Estrous cycle–dependent variation in amphetamine–induced behaviors and striatal dopamine release assessed with microdialysis. Becker JB, et al. **Behav Brain Res** 1989 Nov 1;35(2):117–25
Injections of 6–hydroxydopamine in the substantia nigra of the rat brain: morphological and biochemical effects. Buonamici M, et al. **Behav Brain Res** 1990 Apr 16; 38(1):83–95
Intracellular [3H]dopamine binding sites in normal and malignant cells: relationships to cell proliferation. Markaverich BM, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):391–400
Identification and characterization of functional D1 dopamine receptors in a human neuroblastoma cell line. Sidhu A, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):574–9
Effects of isomers of hydroxyaporphines on dopamine metabolism in rat brain regions. Baldessarini RJ, et al.
Biochem Pharmacol 1990 Aug 1;40(3):417–23
The relative abilities of MPTP and MPP+ to compete with [3H]dopamine for the rat and marmoset striatal dopamine uptake site. Barnes NM, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):809–11
Cocaine–sensitive, ATP–dependent dopamine uptake into striatal synaptosomes. Cao CJ, et al.
Biochem Pharmacol 1990 Mar 15;39(6):R9–14
1–Hydroxy–3–aminopyrrolid–2–one (HA–966) and kynurenate antagonize N–methyl–D–aspartate induced enhancement of [3H]dopamine release from rat striatal slices. Crawford M, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4165–8
Transient depletion of nucleus accumbens dopamine content may contribute to initial akinesia induced by MPTP in common marmosets. Rose S, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3677–81
5–Hydroxytryptamine and dopamine in pre–senile and senile Alzheimer–type dementia. Yates CM, et al.
Biochem Soc Trans 1990 Jun;18(3):422–3
Biochemical studies on the release of catecholamines from the rat carotid body in vitro. Shaw K, et al.
Biochim Biophys Acta 1989 Sep 4;1013(1):42–6
The antihypoxic effect of ethymisole: a comparison with other nootropic drugs. Fischer HD, et al.
Biomed Biochim Acta 1989;48(10):843–7
4–beta–phorbol–12,13–dibutyrate enhances K+–stimulated dopamine release from hippocampal slices. Schröder H, et al. **Biomed Biochim Acta** 1989;48(7):425–9
Determination of fluorescent cyanobenz[f]isoindole derivatives of dopamine and norepinephrine using high performance liquid chromatography with chemiluminescence detection. Kawasaki T, et al.
Biomed Chromatogr 1990 May;4(3):113–8
Characterization of cholecystokinin octapeptide–stimulated endogenous dopamine release from rat nucleus accumbens in vitro. Marshall FH, et al. **Br J Pharmacol** 1990 Apr; 99(4):845–8
The mechanism of tetrahydroaminoacridine–evoked release of endogenous 5–hydroxytryptamine and dopamine from rat brain tissue prisms. Robinson TN, et al.
Br J Pharmacol 1989 Dec;98(4):1127–36
Fluctuations in response to L–dopa in Parkinson's disease may be explained by changes in striatal dopamine turnover. Rose S, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:816P
Beyond the dopamine hypothesis. The neurochemical pathology of schizophrenia. Reynolds GP.
Br J Psychiatry 1989 Sep;155:305–16 (101 ref.)
Modulation of acetylcholine release by D1, D2 dopamine receptors in rat striatum under freely moving conditions. Ajima A, et al. **Brain Res** 1990 Jun 4;518(1–2):193–8
Enhanced extracellular dopamine level may be the fundamental neuropharmacological basis of cross–behavioral sensitization between methamphetamine and cocaine—an in vivo dialysis study in freely moving rats. Akimoto K, et al. **Brain Res** 1990 Jan 22;507(2):344–6
Evaluation of a 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine (MPTP)–treated C57 black mouse model for parkinsonism. Arai N, et al. **Brain Res** 1990 May 7;515(1–2):57–63
alpha–Methyl–p–tyrosine pretreatment partially prevents methamphetamine–induced endogenous neurotoxin formation. Axt KJ, et al. **Brain Res** 1990 May 7; 515(1–2):269–76
Reserpine enhances amphetamine stereotypies without increasing amphetamine–induced changes in striatal dialysate dopamine. Callaway CW, et al. **Brain Res** 1989 Dec 25;505(1):83–90
Dopaminergic afferents to the mesencephalic trigeminal nucleus of the rat: a light and electron microscope immunocytochemistry study. Copray JC, et al.
Brain Res 1990 Apr 30;514(2):343–8
Measurement of 3–methoxytyramine by in vivo voltammetry: evidence for differences in central dopamine function in BALB/c and CBA mice. Crespi F, et al. **Brain Res** 1989 Oct 23;500(1–2):241–6
Simultaneous detection of tryptamine and dopamine in rat substantia nigra and raphe nuclei using specific antibodies. Dabadie H, et al. **Brain Res** 1990 Mar 26;512(1):138–42
Long–term effect of MPTP in the mouse brain in relation to aging: neurochemical and immunocytochemical analysis. Date I, et al. **Brain Res** 1990 Jun 11;519(1–2):266–76
In vitro progesterone modulation of amphetamine–stimulated dopamine release from the corpus striatum of ovariectomized estrogen–treated female rats: response characteristics. Dluzen DE, et al. **Brain Res** 1990 May 28; 517(1–2):117–22
MPTP–induced parkinsonism: relative changes in dopamine concentration in subregions of substantia nigra, ventral tegmental area and retrorubral field of symptomatic and asymptomatic vervet monkeys. Elsworth JD, et al.
Brain Res 1990 Apr 16;513(2):320–4
The effects of cholecystokinin (CCK–8) on dopamine–containing nerve terminals in the caudate nucleus and nucleus accumbens of the anesthetized rat: an in vivo electrochemical study. Gerhardt GA, et al.
Brain Res 1989 Oct 9;499(1):157–63
Regional changes in brain dopamine and serotonin metabolism induced by conditioned circling in rats: effects of water deprivation, learning and individual differences in asymmetry. Glick SD, et al. **Brain Res** 1989 Dec 18; 504(2):231–7
Cocaine reinforcement and extracellular dopamine overflow in rat nucleus accumbens: an in vivo microdialysis study. Hurd YL, et al. **Brain Res** 1989 Sep 25;498(1):199–203
Apomorphine does not reverse reduced basal dopamine release in rat striatum and nucleus accumbens after chronic haloperidol treatment. Ichikawa J, et al. **Brain Res** 1990 Jan 15;507(1):138–42
The effect of intraventricular administration of the 5–HT3 receptor agonist 2–methylserotonin on the release of dopamine in the nucleus accumbens: an in vivo chronocoulometric study. Jiang LH, et al. **Brain Res** 1990 Apr 9;513(1):156–60
Estrogen effects on the tuberoinfundibular dopaminergic system in the female rat brain. Jones EE, et al.
Brain Res 1990 Feb 26;510(1):84–91
The effect of nicotine on catecholaminergic storage vesicles. Kramer HK, et al. **Brain Res** 1989 Dec 4;503(2):296–8
Neurotensin and cholecystokinin microinjected into the ventral tegmental area modulate microdialysate concentrations of dopamine and metabolites in the posterior nucleus accumbens. Laitinen K, et al. **Brain Res** 1990 Jul 23;523(2):342–6
Direct observation of dopamine compartmentation in striatal nerve terminal by 'in vivo' measurement of the specific activity of released dopamine. Leviel V, et al.
Brain Res 1989 Oct 16;499(2):205–13
Electrically stimulated [3H]dopamine and [14C]acetylcholine release from nucleus caudatus slices: differences between spontaneously hypertensive rats and Wistar–Kyoto rats. Linthorst AC, et al. **Brain Res** 1990 Feb 19;509(2):266–72
Striosomal organization of cholinergic and dopaminergic uptake sites and cholinergic M1 receptors in the adult human striatum: a quantitative receptor autoradiographic study. Lowenstein PR, et al. **Brain Res** 1990 Feb 26; 510(1):122–6
The effects of monoamine uptake inhibitors and methamphetamine on neostriatal 6–hydroxydopamine (6–OHDA) formation, short–term monoamine depletions and locomotor activity in the rat. Marek GJ, et al.
Brain Res 1990 May 14;516(1):1–7
Comparison between extracellular and tissue fluctuation of dopamine and related metabolites in striatum under hypoxia. Masuda T, et al. **Brain Res** 1990 Jul 23; 523(2):356–8
Regulation of neurotensin–containing neurons in the rat striatum and substantia nigra. Effects of unilateral nigral lesion with 6–hydroxydopamine on neurotensin content and its binding site density. Masuo Y, et al. **Brain Res** 1990 Mar 5;510(2):203–10
CNS monoamines and their metabolites in canine narcolepsy: a replication study. Miller JD, et al. **Brain Res** 1990 Feb 12;509(1):169–71
Transient tyrosine hydroxylase–immunoreactive neurons in the region of the anterior olfactory nucleus of pre– and postnatal mice do not contain dopamine. Nagatsu I, et al.
Brain Res 1990 Mar 12;511(1):55–62
Comparative studies on the retinal dopamine response to altered magnetic fields in rodents. Olcese J, et al.
Brain Res 1989 Sep 25;498(1):145–8
Uric acid levels and dopamine transmission in rat striatum: diurnal changes and effects of drugs. O'Neill RD.
Brain Res 1990 Jan 22;507(2):267–72
Presynaptic regulation of dopamine release in corpus striatum monitored in vitro in real time by fast cyclic voltammetry. Palij P, et al. **Brain Res** 1990 Feb 12;509(1):172–4
Correlation of dopamine release in the nucleus accumbens with masculine sexual behavior in rats. Pleim ET, et al.
Brain Res 1990 Jul 30;524(1):160–3
Opposite dopaminergic activity in lateral and median hypothalamic nuclei in relation to the feeding effect of D–Ser2–Leu–Enk–Thr6 (DSLET). Robert JJ, et al.
Brain Res 1990 Feb 26;510(1):7–11
The effects of L–dopa on in vitro dopamine release from striatum. Snyder GL, et al. **Brain Res** 1990 Feb 5; 508(2):181–7
Striatal dopamine terminals release serotonin after 5–HTP pretreatment: in vivo voltammetric data. Stamford JA, et al. **Brain Res** 1990 May 7;515(1–2):173–80
Neurotensin counteracts apomorphine–induced inhibition of dopamine release as studied by microdialysis in rat neostriatum. Tanganelli S, et al. **Brain Res** 1989 Nov 20;

502(2):319–24
The dendritic dopamine projection of the substantia nigra: phenotypic denominator of weaver gene action in hetero- and homozygosity. Triarhou LC, et al. **Brain Res** 1989 Nov 6;501(2):373–81
MPTP is proconvulsant acutely but has no long-term effect in rodent models of seizure and epilepsy. Van Ness PC, et al. **Brain Res** 1989 Dec 18;504(2):289–92
Effects of enucleation on postnatal development of catecholamines and serotonin metabolism in the superior colliculus of the rat. Viruete ML, et al. **Brain Res** 1990 Jul 23;523(2):281–7
A neurochemical heterogeneity of the rat striatum as measured by in vivo electrochemistry and microdialysis. Yamamoto BK, et al. **Brain Res** 1990 Jan 8;506(2):236–42
Dopaminergic neurons in the nucleus raphe dorsalis innervate the prefrontal cortex in the rat: a combined retrograde tracing and immunohistochemical study using anti-dopamine serum. Yoshida M, et al. **Brain Res** 1989 Sep 4;496(1–2):373–6
Morphological, neurochemical, and behavioral characterizations associated with the combined treatment of diethyldithiocarbamate and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine in mice. Yurek DM, et al. **Brain Res** 1989 Sep 18;497(2):250–9
MPTP treatment combined with ethanol or acetaldehyde selectively destroys dopaminergic neurons in mouse substantia nigra. Zuddas A, et al. **Brain Res** 1989 Oct 30; 501(1):1–10
Post-mortem dopamine dynamics assessed by voltammetry and microdialysis. Gonzalez-Mora JL, et al. **Brain Res Bull** 1989 Oct–Nov;23(4–5):323–7
Serotonin microinfusion into the ventral tegmental area increases accumbens dopamine release. Guan XM, et al. **Brain Res Bull** 1989 Dec;23(6):541–7
Central catecholaminergic responses in hypoxic moderation of spontaneous hypertension. Henley WN, et al. **Brain Res Bull** 1989 Jun;22(6):963–8
Postnatal development of striatal dopamine function. I. An examination of D1 and D2 receptors, adenylate cyclase regulation and presynaptic dopamine markers. Broaddus WC, et al. **Brain Res Dev Brain Res** 1990 Mar 1; 52(1–2):265–71
Postnatal development of striatal dopamine function. II. Effects of neonatal 6-hydroxydopamine treatments on D1 and D2 receptors, adenylate cyclase activity and presynaptic dopamine function. Broaddus WC, et al. **Brain Res Dev Brain Res** 1990 Mar 1;52(1–2):273–7
Prenatal development of mesencephalic and diencephalic dopaminergic systems in the male and female rat. Reisert I, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):222–9
Changes in brain dopaminergic indices induced by perinatal exposure to cannabinoids in rats. Rodriguez de Fonseca F, et al. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):237–40
Hormonal control of the development and regulation of tyrosine hydroxylase expression within a sexually dimorphic population of dopaminergic cells in the hypothalamus. Simerly RB. **Brain Res Mol Brain Res** 1989 Dec;6(4):297–310
A defective beta-hydroxylation of dopamine may precede the full development of hypertension in spontaneously hypertensive rats. Kuchel O, et al. **Can J Cardiol** 1989 Sep; 5(6):327–31
On the mechanism of the Mn3(+)-induced neurotoxicity of dopamine:prevention of quinone-derived oxygen toxicity by DT diaphorase and superoxide dismutase. Segura-Aguilar J, et al. **Chem Biol Interact** 1989; 72(3):309–24
Dopamine beta-hydroxylase inhibition reveals a selective influence of endotoxin on catecholamine content of rat tissues. Arnold J, et al. **Circ Shock** 1990 Aug;31(4):387–94
Myocardial catecholamine content after heart transplantation [see comments] Regitz V, et al. **Circulation** 1990 Aug; 82(2):620–3 Comment in: Circulation 1990 Aug;82(2):658–60.
Validation of a method to measure the uptake of [3H]dopamine by human platelets. Dean B, et al. **Clin Chim Acta** 1990 Jan 31;187(1):37–46
Levels of dopamine and 3,4-dihydroxyphenylacetic acid in the adenohypophysis of normo- and hypertensive rats. Sim MK, et al. **Clin Exp Hypertens [A]** 1990;12(3):343–53
Pharmacology of amineptine: synthesis and updating. Garattini S, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S13–8 (17 ref.)
Diurnal alterations of catecholamines, indoleamines and their metabolites in specific brain regions of the mouse. Huie JM, et al. **Comp Biochem Physiol [C]** 1989;94(2):575–9
Changes in the kinetics of [3H]dopamine release from median eminence and striatal synaptosomes during aging. Gregerson KA, et al. **Endocrinology** 1990 Jan;126(1):228–34
Regulation of prolactin secretion by dopamine and thyrotropin-releasing hormone in lactating rat adenohypophyses: influence of intracellular age of the hormone. Mena F, et al. **Endocrinology** 1989 Oct; 125(4):1814–20
Increased dopamine turnover in women with polycystic ovary syndrome. Segos C, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Dec;33(3):229–34
The dopamine inhibitor GBR 12909: selectivity and molecular mechanism of action. Andersen PH. **Eur J Pharmacol** 1989 Aug 3;166(3):493–504
Interaction of [3H]GBR 12935 and GBR 12909 with the dopamine uptake complex in nucleus accumbens. Berger P, et al. **Eur J Pharmacol** 1990 Feb 20;177(1–2):91–4
[3H]cocaine binding and inhibition of [3H]dopamine uptake is similar in both the rat striatum and nucleus accumbens. Boja JW, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):215–7
Effects of prolactin on tyrosine hydroxylase activity of central dopaminergic neurons of male rats. Chen JC, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):473–9
Lack of tolerance to nicotine-induced dopamine release in the nucleus accumbens. Damsma G, et al. **Eur J Pharmacol** 1989 Sep 22;168(3):363–8
Diethyldithiocarbamate and disulfiram inhibit MPP+ and dopamine uptake by striatal synaptosomes. Di Monte D, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):23–9
Inhibition of dopamine release by methylenedioxymethamphetamine is mediated by serotonin. Gazzara RA, et al. **Eur J Pharmacol** 1989 Sep 13;168(2):209–17
Opioid receptor-mediated inhibition of dopamine and acetylcholine release from slices of rat nucleus accumbens, olfactory tubercle and frontal cortex. Heijna MH, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):267–78
The effect of chronic clozapine and haloperidol on basal dopamine release and metabolism in rat striatum and nucleus accumbens studied by in vivo microdialysis. Ichikawa J, et al. **Eur J Pharmacol** 1990 Feb 13; 176(3):371–4
Stress activation of limbic and cortical dopamine release is prevented by ICS 205–930 but not by diazepam. Imperato A, et al. **Eur J Pharmacol** 1990 Jan 10;175(2):211–4
Effects of acute GR38032F (odansetron), a 5-HT3 receptor antagonist, on dopamine and serotonin metabolism in mesolimbic and nigrostriatal dopaminergic neurons. Koulu M, et al. **Eur J Pharmacol** 1989 Oct 10;169(2–3):321–4
Glycine potentiates the NMDA-induced release of dopamine through a strychnine-insensitive site in the rat striatum. Krebs MO, et al. **Eur J Pharmacol** 1989 Aug 3; 166(3):567–70
Acute changes in dopamine levels in rat adrenal glands after administration of dopamine receptor agonists and antagonists. Kujacic M, et al. **Eur J Pharmacol** 1990 Feb 27;177(3):163–70
Systemic administration of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine reduces the release of [3H]dopamine from rat striatal slices. Kurstjens NP, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):147–52
Stimulation of synaptosomal dopamine synthesis by corticotropin-releasing factor in rat striatum: role of Ca2+-dependent mechanisms. Olianas MC, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):165–74
Nimodipine inhibits cocaine-induced dopamine release and motor stimulation. Pani L, et al. **Eur J Pharmacol** 1990 Feb 6;176(2):245–6
Brain dialysis and dopamine: does the extracellular concentration of dopamine reflect synaptic release? Pani L, et al. **Eur J Pharmacol** 1990 May 3;180(1):85–90
The putative 5-HT3 agonist phenylbiguanide induces carrier-mediated release of [3H]dopamine. Schmidt CJ, et al. **Eur J Pharmacol** 1989 Aug 22;167(2):309–10
Single apomorphine pretreatment results in a rapid decline in high-affinity dopamine binding to the striatal dopamine D-2 receptor. Severson JA, et al. **Eur J Pharmacol** 1990 Apr 25;188(4–5):283–6
The enantiomers of the dopamine agonist N-0437: in vivo and in vitro effects on the release of striatal dopamine. Timmerman W, et al. **Eur J Pharmacol** 1989 Jul 4; 166(1):1–11
Antipsychotic substances and dopamine in the rat brain; behavioral studies reveal distinct dopamine receptor systems. Van Ree JM, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):441–52
Adenosine agonists can both inhibit and enhance in vivo striatal dopamine release. Zetterström T, et al. **Eur J Pharmacol** 1990 May 3;180(1):137–43
Degeneration and graft-induced restoration of dopamine innervation in the weaver mouse neostriatum: a quantitative radioautographic study of [3H]dopamine uptake. Doucet G, et al. **Exp Brain Res** 1989;77(3):552–68
Regulation of dopamine function in the nucleus accumbens of the rat by the thalamic paraventricular nucleus and adjacent midline nuclei. Jones MW, et al. **Exp Brain Res** 1989;76(3):572–80
Intrastriatal implants of mesencephalic cell suspensions in weaver mutant mice: ultrastructural relationships of dopaminergic dendrites and axons issued from the graft. Triarhou LC, et al. **Exp Brain Res** 1990;79(1):3–17
Different sensitivities to MPTP toxicity in primate nigrostriatal and retinal dopaminergic systems: electrophysiological and biochemical evidence. Harnois C, et al. **Exp Eye Res** 1989 Oct;49(4):543–52
Limited recovery of striatal dopaminergic fibers by adrenal medullary grafts in MPTP-treated aging mice. Date I, et al. **Exp Neurol** 1990 Mar;107(3):197–207
The effect of L-dopa upon in vitro dopamine release from the corpus striatum of young and old male rats. Dluzen DE, et al. **Exp Neurol** 1989 Dec;106(3):259–64
Potential environmental neurotoxins related to 1-methyl-4-phenylpyridinium: selective toxicity of 1-methyl-4-(4'-acetamidophenyl)-pyridinium and 1-methyl-4-cyclohexylpyridinium for dopaminergic neurons in culture. Michel PP, et al. **Exp Neurol** 1990 May; 108(2):141–50
Effect of some quinolizidine derivatives on the release of serotonin, noradrenaline, dopamine and acetylcholine from rat brain synaptosomes. Sparatore A, et al. **Farmaco** 1989 Dec;44(12):1205–16
Dopamine receptors and transporters in Parkinson's disease and schizophrenia. Seeman P, et al. **FASEB J** 1990 Jul; 4(10):2737–44 (58 ref.)
Tight binding dopamine reuptake inhibitors as cocaine antagonists. A strategy for drug development [published erratum appears in FEBS Lett 1990 Jan 15;260(1):152] Rothman RB, et al. **FEBS Lett** 1989 Nov 6;257(2):341–4
Syncope during migraine attack: an effect of dopaminergic overreactivity? [letter] Micieli G, et al. **Funct Neurol** 1989 Jul–Sep;4(3):303–4
Release and metabolism of dopamine in a clonal line of pheochromocytoma (PC12) cells exposed to fenthion. Tuler SM, et al. **Fundam Appl Toxicol** 1989 Oct;13(3):484–92
Time-related changes in serum perphenazine, striatal 3H-spiperone binding and regional brain acid metabolites of dopamine and 5-hydroxy-tryptamine after a single dose of perphenazine. Mjörndal T, et al. **Fundam Clin Pharmacol** 1990;4(2):213–22
Effects of probenecid on striatal dopamine depletion in acute and long-term 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-treated mice. Lau YS, et al. **Gen Pharmacol** 1990; 21(2):181–7
Tuberoinfundibular dopaminergic tonus in common migraine. Lara Capellan JI, et al. **Headache** 1990 Apr;30(5):282–4
Possible prostaglandin-dopamine interactions during experimental gastric ulcer formation. Ray A, et al. **Indian J Exp Biol** 1990 Jun;28(6):562–5
Thiophenes as phenyl bio-isosteres: application in radiopharmaceutical design—I. Dopamine uptake antagonists. Kilbourn MR. **Int J Rad Appl Instrum [B]** 1989; 16(7):681–6
Effect of helium-oxygen pressure on dopamine detected in vivo in the striatum of hamsters. Forni C, et al. **J Appl Physiol** 1989 Oct;67(4):1617–22
Dopamine release from bovine adrenal medullary cells in culture. Boksa P. **J Auton Nerv Syst** 1990 Apr;30(1):63–74
Uptake of [3H]dopamine in the mouse adrenal medulla during dark and light period. Hirano T, et al. **J Auton Nerv Syst** 1989 Oct;28(1):89–93
In vivo and in vitro synthesis, release, and uptake of [3-H]-dopamine in mouse striatal slices after in vivo exposure to chlordecone. Fujimori K, et al. **J Biochem Toxicol** 1986 Dec;1(4):1–12
Stereochemistry of copper amine oxidase reactions. Coleman AA, et al. **J Biol Chem** 1989 Nov 25;264(33):19500–5
Evidence for the existence of L-dopa- and dopamine-immunoreactive nerve cell bodies in the caudal part of the dorsal motor nucleus of the vagus nerve. Manier M, et al. **J Chem Neuroanat** 1990 May-Jun;3(3):193–205
New insights into the reptilian catecholaminergic systems as revealed by antibodies against the neurotransmitters and their synthetic enzymes. Smeets WJ, et al. **J Chem Neuroanat** 1990 Jan–Feb;3(1):25–43
Distribution of dopamine-immunoreactive cell bodies in the guinea-pig brain. Smits RP, et al. **J Chem Neuroanat** 1990 Mar-Apr;3(2):101–23
Dopaminergic innervation of the basal ganglia in the squirrel monkey as revealed by tyrosine hydroxylase immunohistochemistry. Lavoie B, et al. **J Comp Neurol** 1989 Nov 1;289(1):36–52
Compartment-specific changes in the density of choline and dopamine uptake sites and muscarinic and dopaminergic receptors during the development of the baboon striatum: a quantitative receptor autoradiographic study. Lowenstein PR, et al. **J Comp Neurol** 1989 Oct 15;288(3):428–46
Distribution and synaptic organization of dopaminergic axons in the lateral geniculate nucleus of the rat. Papadopoulos GC, et al. **J Comp Neurol** 1990 Apr 15;294(3):356–61
Distribution and spatial geometry of dopamine interplexiform cells in the rat retina: I. Developing retina. Savy C, et al. **J Comp Neurol** 1989 Nov 1;289(1):99–110
Catecholamine-containing neurons in the sheep brainstem and diencephalon: immunohistochemical study with tyrosine hydroxylase (TH) and dopamine-beta-hydroxylase (DBH) antibodies. Tillet Y, et al. **J Comp Neurol** 1989 Dec 1;290(1):69–104
Compartmental organization of the ventral striatum of the rat: immunohistochemical distribution of enkephalin, substance P, dopamine, and calcium-binding protein. Voorn P, et al. **J Comp Neurol** 1989 Nov 8;289(2):189–201
Correlated light and electron microscopic study of dopaminergic neurons and their synaptic junctions with DARPP-32-containing cells in three-dimensional reaggregate tissue culture. Won L, et al. **J Comp Neurol** 1989 Nov 1;289(1):165–77
Postnatal development of striatal neurotensin immunoreactivity in relation to clusters of substance P immunoreactive neurons and the "dopamine islands" in the rat. Zahm DS, et al. **J Comp Neurol** 1990 Jun 15; 296(3):403–14
Synthesis of 3-arylecgonine analogues as inhibitors of cocaine binding and dopamine uptake. Kline RH Jr, et al. **J Med Chem** 1990 Jul;33(7):2024–7
Localization of striatal opioid gene expression, and its modulation by the mesostriatal dopamine pathway: an in situ hybridization study. Morris BJ, et al. **J Mol Neurosci** 1989;1(1):9–18

B-HT 920 is a full agonist at both pre- and postsynaptic D-2 dopamine receptors. Andén NE, et al. **J Neural Transm Gen Sect** 1990;79(3):209-14

Ischemia in the dorsal hippocampus is associated with acute extracellular release of dopamine and norepinephrine. Bhardwaj A, et al. **J Neural Transm Gen Sect** 1990; 80(3):195-201

Regionally-specific alterations in mesotelencephalic dopamine synthesis in diabetic rats: association with precursor tyrosine. Bradberry CW, et al. **J Neural Transm Gen Sect** 1989;78(3):221-9

Semistarvation-induced hyperactivity compensates for decreased norepinephrine and dopamine turnover in the mediobasal hypothalamus of the rat. Broocks A, et al. **J Neural Transm Gen Sect** 1990;79(1-2):113-24

3,4-Dihydroxyphenylethylamine, L-3,4-dihydroxyphenylalanine and 3,4,5-trihydroxyphenylalanine: oxidation and binding to membranes. A comparative study of a neurotransmitter, a precursor and a neurotransmitter candidate in primitive nervous systems. Carlberg M. **J Neural Transm Gen Sect** 1990;81(2):111-9

Biosynthesis of salsolinol, a tetrahydroisoquinoline alkaloid, in healthy subjects. Dostert P, et al. **J Neural Transm Gen Sect** 1990;81(3):215-23

Effects of centrally administered neuropeptide Y (NPY) and NPY13-36 on the brain monoaminergic systems of the rat. Heilig M, et al. **J Neural Transm Gen Sect** 1990; 79(3):193-208

Hypothalamic monoamines and their metabolites in the deermouse, Peromyscus maniculatus, during daily torpor. Lin LH, et al. **J Neural Transm Gen Sect** 1990;79(1-2):11-8

Changes in pituitary-adrenal activity affect the apomorphine- and cholecystokinin-8-induced changes in striatal dopamine release using microdialysis. Tanganelli S, et al. **J Neural Transm Gen Sect** 1990;81(3):183-94

Conditioning of morphine-induced locomotor activity and stereotyped behaviour in rats. Walter S, et al. **J Neural Transm Gen Sect** 1989;78(3):231-47

Striatal L-dopa metabolism studied in vivo in rats with nigrostriatal lesions. Brannan T, et al. **J Neural Transm Park Dis Dement Sect** 1990;2(1):15-22

The apparent autoxidation rate of catechols in dopamine-rich regions of human brains increases with the degree of depigmentation of substantia nigra. Fornstedt B, et al. **J Neural Transm Park Dis Dement Sect** 1989;1(4):279-95

Effect of acute levodopa on brain catecholamines after selective MAO and COMT inhibition in male rats. Männistö PT, et al. **J Neural Transm Park Dis Dement Sect** 1990;2(1):31-43

Selectivity of melaninized nigra-striatal dopamine neurons to degeneration in Parkinson's disease may depend on iron-melanin interaction. Ben-Shachar D, et al. **J Neural Transm Suppl** 1990;29:251-8 (26 ref.)

Respective contributions of neuronal activity and presynaptic mechanisms in the control of the in vivo release of dopamine. Chéramy A, et al. **J Neural Transm Suppl** 1990; 29:183-93 (53 ref.)

Investigations on auto-antibodies in Alzheimer's and Parkinson's diseases, using defined neuronal cultures. Dahlström A, et al. **J Neural Transm Suppl** 1990;29:195-206

Oxidative stress: a role in the pathogenesis of Parkinson's disease. Götz ME, et al. **J Neural Transm Suppl** 1990; 29:241-9 (30 ref.)

Neurotensin binding to dopamine. Adachi DK, et al. **J Neurochem** 1990 Apr;54(4):1321-8

Effects of selective monoamine oxidase inhibitors on the in vivo release and metabolism of dopamine in the rat striatum. Butcher SP, et al. **J Neurochem** 1990 Sep; 55(3):981-8

Blockade of the noradrenaline carrier increases extracellular dopamine concentrations in the prefrontal cortex: evidence that dopamine is taken up in vivo by noradrenergic terminals. Carboni E, et al. **J Neurochem** 1990 Sep; 55(3):1067-70

Estimation of free dopamine in the cytoplasm of the giant dopamine cell of Planorbis corneus by voltammetry and capillary electrophoresis. Chien JB, et al. **J Neurochem** 1990 Feb;54(2):633-8

Imaging the dopamine uptake site with ex vivo [18F]GBR 13119 binding autoradiography in rat brain. Ciliax BJ, et al. **J Neurochem** 1990 Aug;55(2):619-23

Effects of transient forebrain ischemia and pargyline on extracellular concentrations of dopamine, serotonin, and their metabolites in the rat striatum as determined by in vivo microdialysis. Damsma G, et al. **J Neurochem** 1990 Mar;54(3):801-8

Diacylglycerol-induced stimulation of neurotransmitter release from rat brain striatal synaptosomes. Davis ME, et al. **J Neurochem** 1990 Feb;54(2):662-8

[3H]GBR 12935 binding to dopamine uptake sites in the human brain. De Keyser J, et al. **J Neurochem** 1989 Nov; 53(5):1400-4

In vivo mechanisms underlying dopamine release from rat nigrostriatal terminals: I. Studies using veratrine and ouabain. Fairbrother IS, et al. **J Neurochem** 1990 Jun; 54(6):1834-43

In vivo mechanisms underlying dopamine release from rat nigrostriatal terminals: II. Studies using potassium and tyramine. Fairbrother IS, et al. **J Neurochem** 1990 Jun; 54(6):1844-51

In vivo autoxidation of dopamine in guinea pig striatum increases with age. Fornstedt B, et al. **J Neurochem** 1990 Aug;55(2):655-9

Transient hypoxia alters striatal catecholamine metabolism in immature brain: an in vivo microdialysis study. Gordon K, et al. **J Neurochem** 1990 Feb;54(2):605-11

Dopamine release via protein kinase C activation in the fish retina. Kato S, et al. **J Neurochem** 1990 Jun;54(6):2082-90

Enhancement of dopamine release in vivo from the rat striatum by dialytic perfusion of 6R-L-erythro-5,6,7,8-tetrahydrobiopterin. Koshimura K, et al. **J Neurochem** 1990 Apr;54(4):1391-7

Apomorphine does not alter amphetamine-induced dopamine release measured in striatal dialysates. Kuczenski R, et al. **J Neurochem** 1990 May;54(5):1492-9

Immunity of fetal mice to prenatal administration of the dopaminergic neurotoxin 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine. Melamed E, et al. **J Neurochem** 1990 Oct;55(4):1427-31

Acute effects of typical and atypical antipsychotic drugs on the release of dopamine from prefrontal cortex, nucleus accumbens, and striatum of the rat: an in vivo microdialysis study. Moghaddam B, et al. **J Neurochem** 1990 May; 54(5):1755-60

Stimulation of dopamine release from cultured rat mesencephalic cells by naturally occurring excitatory amino acids: involvement of both N-methyl-D-aspartate (NMDA) and non-NMDA receptor subtypes. Mount H, et al. **J Neurochem** 1990 Jul;55(1):268-75

Extracellular striatal dopamine and its metabolites during transient cerebral ischaemia. Obrenovitch TP, et al. **J Neurochem** 1990 May;54(5):1526-32

Differential calcium dependence between the release of endogenous dopamine and noradrenaline from rat brain synaptosomes. Okada M, et al. **J Neurochem** 1990 Jun; 54(6):1947-52

Effects of apomorphine on in vivo release of dopamine and its metabolites in the prefrontal cortex and the striatum, studied by a microdialysis method. Ozaki N, et al. **J Neurochem** 1989 Dec;53(6):1861-4

Extracellular concentrations of cocaine and dopamine are enhanced during chronic cocaine administration. Pettit HO, et al. **J Neurochem** 1990 Sep;55(3):798-804

Nicotinic modulation of [3H]dopamine release from striatal synaptosomes: pharmacological characterisation. Rapier C, et al. **J Neurochem** 1990 Mar;54(3):937-45

Central regulation of adrenal tyrosine hydroxylase: effect of induction on catecholamine levels in the adrenal medulla and plasma. Regunathan S, et al. **J Neurochem** 1989 Dec; 53(6):1706-10

Role of adenylate cyclase in the modulation of the release of dopamine: a microdialysis study in the striatum of the rat. Santiago M, et al. **J Neurochem** 1990 Jul;55(1):169-74

Effect of transient cerebral ischaemia and cardiac arrest on brain extracellular dopamine and serotonin as determined by in vivo dialysis in the rat. Sarna GS, et al. **J Neurochem** 1990 Sep;55(3):937-40

Development of haloperidol-induced dopamine release in the rat striatum using intracerebral dialysis. Walters DE, et al. **J Neurochem** 1990 Jan;54(1):181-6

Ethanol inhibition of N-methyl-D-aspartate-stimulated endogenous dopamine release from rat striatal slices: reversal by glycine. Woodward JJ, et al. **J Neurochem** 1990 Feb;54(2):712-5

In vivo striatal dopamine release by M1 muscarinic receptors is induced by activation of protein kinase C. Xu M, et al. **J Neurochem** 1990 Jun;54(6):1917-9

Effects of dopamine depletion on striatal neurotensin: biochemical and immunohistochemical studies. Bean AJ, et al. **J Neurosci** 1989 Dec;9(12):4430-8

Differential expression of ARPP-16 and ARPP-19, two highly related cAMP-regulated phosphoproteins, one of which is specifically associated with dopamine-innervated brain regions. Girault JA, et al. **J Neurosci** 1990 Apr; 10(4):1124-33

Effect of acute and daily neurotensin and enkephalin treatments on extracellular dopamine in the nucleus accumbens. Kalivas PW, et al. **J Neurosci** 1990 Sep; 10(9):2940-9

Patterns of cell and fiber vulnerability in the mesostriatal system of the mutant mouse weaver. II. High affinity uptake sites for dopamine. Roffler-Tarlov S, et al. **J Neurosci** 1990 Mar;10(3):734-40

Application of fast cyclic voltammetry to measurement of electrically evoked dopamine overflow from brain slices in vitro. Bull DR, et al. **J Neurosci Methods** 1990 Apr; 32(1):37-44

A simple perfusion system for measuring endogenous retinal dopamine release. Gibson CJ. **J Neurosci Methods** 1990 Apr;32(1):75-9

Bilateral recovery of striatal dopamine after unilateral adrenal grafting into the striatum of the 1-methyl-4-(2'-methylphenyl)-1,2,3,6-tetrahydropyridine (2'CH3-MPTP)-treated mouse. Bohn MC, et al. **J Neurosci Res** 1990 Mar;25(3):281-6

Association of iron-containing astrocytes with dopaminergic neurons of the arcuate nucleus. Young JK, et al. **J Neurosci Res** 1990 Feb;25(2):204-13

Increased dopamine turnover in the ventral striatum by 8-OH-DPAT administration in the rat. Ahlenius S, et al. **J Pharm Pharmacol** 1990 Apr;42(4):285-8

Postnatal effects of maternal nicotine exposure on the striatal dopaminergic system in rats. Fung YK. **J Pharm Pharmacol** 1989 Aug;41(8):576-8

Metabolism of a new orally active dopamine prodrug, N-(N-acetyl-L-methionyl)-O,O-bis(ethoxycarbonyl) dopamine (TA-870) and dopamine after oral administration to rats and dogs. Yoshikawa M, et al. **J Pharmacobiodyn** 1990 Apr;13(4):246-53

D1 receptors function to inhibit the activation of tuberoinfundibular dopamine neurons. Berry SA, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):677-82

Ca2(+)-evoked [3H]dopamine release from synaptosomes is dependent on neuronal type Ca2+ channels and is not mediated by acetylcholine, glutamate or aspartate release. Bowyer JF, et al. **J Pharmacol Exp Ther** 1990 Aug; 254(2):664-70

Rapid desensitization of dopamine release induced by neurotensin and neurotensin fragments. Faggin BM, et al. **J Pharmacol Exp Ther** 1990 May;253(2):812-8

Modulation of A10 dopamine neurons by gamma-aminobutyric acid agonists. Kalivas PW, et al. **J Pharmacol Exp Ther** 1990 May;253(2):858-66

Effects of the selective adenosine A2 receptor agonist CGS 21680 on in vitro electrophysiology, cAMP formation and dopamine release in rat hippocampus and striatum. Lupica CR, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1134-41

Pharmacological evidence for feedback regulation of dopamine metabolism in solid fetal substantia nigra transplants. Meloni R, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1259-64

The Na(+)-dependent release of endogenous dopamine and noradrenaline from rat brain synaptosomes. Okada M, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1283-8

Persistence of neurochemical changes in dopamine systems after repeated cocaine administration. Peris J, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):38-44

U-66444B and U-68553B, potent autoreceptor agonists at dopaminergic cell bodies and terminals. Piercey MF, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):369-74

Dopamine efflux from striatal slices after intracerebral 6-hydroxydopamine: evidence for compensatory hyperactivity of residual terminals. Snyder GL, et al. **J Pharmacol Exp Ther** 1990 May;253(2):867-76

Effect of microinjections of apamin into the A10 dopamine region of rats: a behavioral and neurochemical analysis. Steketee JD, et al. **J Pharmacol Exp Ther** 1990 Aug; 254(2):711-9

Modulation of mesoprefrontal dopamine neurons by central benzodiazepine receptors. I. Pharmacological characterization. Tam SY, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):989-96

Retinal dopamine. Douglas RH, et al. **J Photochem Photobiol B** 1990 Mar;4(4):425-9 (33 ref.)

Regional differences in norepinephrine and dopamine concentration and effect on serotonin uptake and release in bovine pineal gland. Chuluyan HE, et al. **J Pineal Res** 1990;8(3):255-67

Possible mechanism of action of deprenyl in parkinsonism [letter] Paterson IA, et al. **Lancet** 1990 Jul 21;336(8708):183

Possible involvement of Ca++ ions, protein kinase C and Na(+)-H+ antiporter in insulin-induced endogenous dopamine release from tuberoinfundibular neurons. Amoroso S, et al. **Life Sci** 1990;46(12):885-94

ATP-regulated neuronal catecholamine uptake: a new mechanism. Cao CJ, et al. **Life Sci** 1990;47(7):655-67

Interrelationships between plasma homovanillic acid and indices of dopamine turnover in multiple brain areas during haloperidol and saline administration. Csernansky JG, et al. **Life Sci** 1990;46(10):707-13

Characterization of gamma-aminobutyric acid and dopamine overflow following acute implantation of a microdialysis probe. Drew KL, et al. **Life Sci** 1989;45(14):1307-17

Antagonism of presynaptic dopamine receptors by phenothiazine drug metabolites. Nowak JZ, et al. **Life Sci** 1990;46(6):443-51

Differential effects of phencyclidine (PCP) and ketamine on mesocortical and mesostriatal dopamine release in vivo. Rao TS, et al. **Life Sci** 1989;45(12):1065-72

Cocaine inhibition of ligand binding at dopamine, norepinephrine and serotonin transporters: a structure-activity study. Ritz MC, et al. **Life Sci** 1990; 46(9):635-45

Interhemispheric regulation of dopaminergic ascending systems. Rodriguez M, et al. **Life Sci** 1990;47(5):377-84

High affinity dopamine reuptake inhibitors as potential cocaine antagonists: a strategy for drug development. Rothman RB. **Life Sci** 1990;46(20):PL17-21

Metaphit inhibits dopamine transport and binding of [3H]methylphenidate, a proposed marker for the dopamine transport complex. Schweri MM, et al. **Life Sci** 1989; 45(18):1689-98

The effects of pH on amphetamine-induced dopamine release as measured by in vivo dialysis. Thomas DN, et al. **Life Sci** 1989;45(14):1299-305

The psychotomimetic drug phencyclidine labels two high affinity binding sites in guinea pig brain: evidence for N-methyl-D-aspartate-coupled and dopamine reuptake carrier-associated phencyclidine binding sites. Rothman RB, et al. **Mol Pharmacol** 1989 Dec;36(6):887-96

Selective local action of angiotensin II on dopaminergic neurons in the rat hypothalamus in vivo. Badoer E, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Jul; 340(1):31-5

Chronic nicotine treatment increases dopamine levels and

reduces dopamine utilization in substantia nigra and in surviving forebrain dopamine nerve terminal systems after a partial di-mesencephalic hemitransection. Fuxe K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):171-81

Lack of autoreceptor mediated regulation of the spontaneous dopamine turnover in the isolated neurointermediate lobe of the rat pituitary gland in vitro. Racké K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):182-5

The effects of quinpirole and fenoldopam on the potassium-evoked overflow of endogenous dopamine and noradrenaline in dog mesenteric arteries. Soares-da-Silva P. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan-Feb; 341(1-2):37-42

Comparison of characteristics of dopamine uptake and mazindol binding in mouse striatum. Zimányi I, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec; 340(6):626-32

The elevation of immunoreactive beta-endorphin in old male rats is related to alterations in dopamine and serotonin. Forman LJ, et al. **Neurobiol Aging** 1990 May-Jun; 11(3):223-7

Aging alters opiate inhibition of potassium (K+)-stimulated dopamine release from the corpus striatum of male rats. Laping NJ, et al. **Neurobiol Aging** 1990 Jul-Aug; 11(4):395-9

Age-related decline in rat striatal dopamine metabolism is regionally homogeneous. Marshall JF, et al. **Neurobiol Aging** 1990 Mar-Apr;11(2):131-7

Widespread alterations in central noradrenaline, dopamine, and serotonin systems in the Brattleboro rat not related to the local absence of vasopressin. Feenstra MG, et al. **Neurochem Res** 1990 Mar;15(3):283-8

Effects of an N-methyl-D-aspartate receptor agonist and its antagonist CPP on the levels of dopamine and serotonin metabolites in rat striatum collected in vivo by using a brain dialysis technique. Kabuto H, et al. **Neurochem Res** 1989 Nov;14(11):1075-80

Levels of CCK immunoreactivity and dopamine in the nucleus accumbens after 6-hydroxydopamine lesions of the ventral tegmental area and the nucleus accumbens. Igarashi Y, et al. **Neuropeptides** 1989 Aug-Sep;14(2):71-6

The actions of (-)N-n-propylnorapomorphine and selective dopamine D1 and D2 receptor agonists to modify the release of [3H]dopamine from the rat nucleus accumbens. Barnes JM, et al. **Neuropharmacology** 1990 Apr; 29(4):327-36

Effects of phencyclidine on extracellular levels of dopamine, dihydroxyphenylacetic acid and homovanillic acid in conscious and anesthetized rats. Chapman CD, et al. **Neuropharmacology** 1990 Apr;29(4):319-25

Opposite changes in turnover of noradrenaline and dopamine in the CNS of ethanol-dependent mice. Eisenhofer G, et al. **Neuropharmacology** 1990 Jan;29(1):37-45

Evidence for the involvement of distinct voltage-sensitive calcium channels in the release of 3H-dopamine from primary cultures of mesencephalic neurons. Grilli MG, et al. **Neuropharmacology** 1989 Nov;28(11):1275-8

Increased release of dopamine in vivo by BMY-14802: contrasting pattern to clozapine. Rao TS, et al. **Neuropharmacology** 1990 May;29(5):503-6

Treatment with a selective MAO B inhibitor prevents loss of dopamine in the nucleus accumbens of MPTP-treated common marmosets. Rose S, et al. **Neuropharmacology** 1989 Nov;28(11):1211-6

Dissociation of the actions of uptake blockers upon dopamine overflow and uptake in the rat nucleus accumbens: in vivo voltammetric data. Stamford JA, et al. **Neuropharmacology** 1989 Dec;28(12):1383-8

Involvement of the cholinergic system in haloperidol-induced release of dopamine from slices of striatum in the rat. Yamada S, et al. **Neuropharmacology** 1990 Jan;29(1):55-9

Effects of acute and chronic administration of cocaine on striatal uptake, compartmentalization and release of [3H]dopamine. Yi SJ, et al. **Neuropharmacology** 1990 May; 29(5):475-86

Local administration of flurazepam has different effects on dopamine release in striatum and nucleus accumbens: a microdialysis study. Zetterström T, et al. **Neuropharmacology** 1990 Feb;29(2):129-34

Acute effects of bupropion on extracellular dopamine concentrations in rat striatum and nucleus accumbens studied by in vivo microdialysis. Nomikos GG, et al. **Neuropsychopharmacology** 1989 Dec;2(4):273-9

Does amphetamine preferentially increase the extracellular concentration of dopamine in the mesolimbic system of freely moving rats? Robinson TE, et al. **Neuropsychopharmacology** 1990 Jun;3(3):163-73

Two substrates for medial forebrain bundle self-stimulation: myelinated axons and dopamine axons. Yeomans JS. **Neurosci Biobehav Rev** 1989 Summer-Fall;13(2-3):91-8 (39 ref.)

Effects of dopamine autoreceptor stimulation on the release of colocalized transmitters: in vivo release of dopamine and neurotensin from rat prefrontal cortex. Bean AJ, et al. **Neurosci Lett** 1990 Jan 1;108(1-2):143-8

Increased diffusion of prolactin-like material into the brain neuropil from homologous adenohypophyseal transplants in the rat neostriatum after a 6-OH-dopamine induced degeneration of the mesostriatal dopamine neurons. Bjelke B, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):33-8

Exogenous GM1 gangliosides induce partial recovery of the nigrostriatal dopaminergic system in MPTP-treated young mice but not in aging mice. Date I, et al. **Neurosci Lett** 1989 Dec 4;106(3):282-6

MPTP reduces dopamine and norepinephrine concentrations in the supplementary motor area and cingulate cortex of the primate. Elsworth JD, et al. **Neurosci Lett** 1990 Jul 13;114(3):316-22

Tyrosine hydroxylase immunohistochemistry in the normal and 1-methyl-4-phenyl-tetrahydropyridine (MPP+)-treated retina of goldfish. Guarnieri T, et al. **Neurosci Lett** 1989 Dec 4;106(3):269-74

Retinal dopamine sensitivity to MPP+ toxicity: electrophysiological and biochemical evaluation. Harnois C, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):19-25

Effect of unilateral nucleus basalis lesion on cortical and striatal acetylcholine and dopamine release monitored in vivo with microdialysis. Herrera-Marschitz M, et al. **Neurosci Lett** 1990 Mar 2;110(1-2):172-9

The influence of cocaine self-administration on in vivo dopamine and acetylcholine neurotransmission in rat caudate-putamen. Hurd YL, et al. **Neurosci Lett** 1990 Feb 5;109(1-2):227-33

Endothelin-triggered brain damage under hypoglycemia evidenced by real-time monitoring of dopamine release from rat striatal slices. Kataoka Y, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):75-80

Increased dopamine release in the nucleus accumbens of copulating male rats as evidenced by in vivo voltammetry. Mas M, et al. **Neurosci Lett** 1990 Mar 14;110(3):303-8

The effect of uptake inhibition on dopamine release from the nucleus accumbens of rats during self- or forced stimulation of the medial forebrain bundle: a microdialysis study. Nakahara D, et al. **Neurosci Lett** 1989 Sep 25; 104(1-2):136-40

Striatal dopaminergic toxicity following intranigral injection in rats of 2-methyl-norharman, a beta-carbolinium analog of N-methyl-4-phenylpyridinium ion (MPP+). Neafsey EJ, et al. **Neurosci Lett** 1989 Nov 6;105(3):344-9

Chronic nicotine treatment eliminates asymmetry in striatal glucose utilization following unilateral transection of the mesostriatal dopamine pathway in rats. Owman C, et al. **Neurosci Lett** 1989 Jul 31;102(2-3):279-83

The long-term effects of neurotoxic doses of methamphetamine on the extracellular concentration of dopamine measured with microdialysis in striatum. Robinson TE, et al. **Neurosci Lett** 1990 Mar 2; 110(1-2):193-8

Comparison of the effects of intracerebrally administered MPP+ (1-methyl-4-phenylpyridinium) in three species: microdialysis of dopamine and metabolites in mouse, rat and monkey striatum. Rollema H, et al. **Neurosci Lett** 1989 Dec 4;106(3):275-81

Expression of tyrosine hydroxylase mRNA in transplanted fetal dopamine neurons. Solberg Y, et al. **Neurosci Lett** 1989 Nov 20;106(1-2):36-42

No mediolateral differences in striatal autoreceptor-mediated modulation of dopamine release: in vivo voltammetric data. Stamford JA, et al. **Neurosci Lett** 1990 Feb 5; 109(1-2):123-7

Substance P afferents have synaptic contacts with dopaminergic neurons in the ventral tegmental area of the rat. Tamiya R, et al. **Neurosci Lett** 1990 Mar 2; 110(1-2):11-5

Phencyclidine increases extracellular dopamine metabolites in rat medial frontal cortex as measured by in vivo dialysis. Tanii Y, et al. **Neurosci Lett** 1990 May 4;112(2-3):318-23

MPTP, MPDP+ and MPP+ cause decreases in dopamine content in mouse brain slices. Wilson JA, et al. **Neurosci Lett** 1990 Jan 1;108(1-2):213-8

Synaptic organization of classical neurotransmitter phenotypes in the primate retina. Mariani AP. **Neurosci Res Suppl** 1989;10:S101-16 (40 ref.)

Effects of neurotensin on dopamine release and metabolism in the rat striatum and nucleus accumbens: cross-validation using in vivo voltammetry and microdialysis. Blaha CD, et al. **Neuroscience** 1990;34(3):699-705

Bilateral tectal projection of single nigrostriatal dopamine cells in the rat. Campbell KJ, et al. **Neuroscience** 1989; 33(2):311-21

Symptomatic and asymptomatic 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-treated primates: biochemical changes in striatal regions. Elsworth JD, et al. **Neuroscience** 1989;33(2):323-31

Tail pinch-induced changes in the turnover and release of dopamine and 5-hydroxytryptamine in different brain regions of the rat. Pei Q, et al. **Neuroscience** 1990; 35(1):133-8

Neonatal hypothyroidism induces striatal dopaminergic dysfunction. Vaccari A, et al. **Neuroscience** 1990; 35(3):699-706

Effects of Aroclor 1254 on dopamine and norepinephrine concentrations in pheochromocytoma (PC-12) cells. Seegal RF, et al. **Neurotoxicology** 1990 Winter;10(4):757-64

Characterization of NMDA-coupled and dopoamine reuptake carrier coupled [3H]-TCP binding sites in guinea pig brain. Reid AA, et al. **NIDA Res Monogr** 1989;95:530-1

Neuropeptide-dopamine interactions. V. Cyclo(His-Pro) regulation of striatal dopamine transporter complex. Ikegami H, et al. **Peptides** 1990 Jan-Feb;11(1):145-8

Differential inhibition of synaptosomal accumulation of [3H]-monoamines by cocaine, tropacocaine and amphetamine in four inbred strains of mice. Bosy TZ, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):165-72

Dopaminergic alterations in cotreatments attenuating haloperidol-induced hypersensitivity. Carvey PM, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):291-300

Tyrosine loading increases dopamine metabolite concentrations in the brain. Chance WT, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):195-9

Perinatal diazepam exposure: alterations in exploratory behavior and mesolimbic dopamine turnover. Gruen RJ, et al. **Pharmacol Biochem Behav** 1990 May;36(1):169-75

Effects of (+-)3,4-methylenedioxymethamphetamine (MDMA) on brain dopaminergic activity in rats. Matthews RT, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):741-7

Studies of dioxole ring substituted 3,4-methylenedioxyamphetamine (MDA) analogues. Nichols DE, et al. **Pharmacol Biochem Behav** 1989 Nov; 34(3):571-6

Dopamine in the nucleus accumbens during cocaine self-administration as studied by in vivo microdialysis. Pettit HO, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):899-904

In vivo dialysis measurements of dopamine and DOPAC in rats trained to turn on a circular treadmill. Sabol KE, et al. **Pharmacol Biochem Behav** 1990 May;36(1):21-8

Delta 9-tetrahydrocannabinol facilitates striatal dopaminergic transmission. Sakurai-Yamashita Y, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):397-400

Effect of YM-09151-2, a putative D2 dopamine receptor antagonist, on dopamine metabolism in the striatum of rats. Shibanoki S, et al. **Pharmacol Biochem Behav** 1989 Oct; 34(2):355-60

Intranigral GABAergic drug effects on striatal dopamine activity. Sperber EF, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1067-70

Yawning and suppression of exploration induced by dopamine agonists: no relation to extracellular striatal levels of dopamine. Ståhle L, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):201-9

Effects of the putative anxiolytic SM-3997 on central monoaminergic systems. Tatsuno T, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1049-55

Chronic cocaine treatment impairs the regulation of synaptosomal 3H-DA release by D2 autoreceptors. Yi SJ, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):457-61

An in vitro model for studying acetylcholine and dopamine release from striatal slices. Raimondi L, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:75-6

The effect of amperozide on uptake and release of [3H]-dopamine in vitro from perfused rat striatal and limbic brain areas. Eriksson E, et al. **Pharmacol Toxicol** 1990;66 Suppl 1:45-8

Comparison of the effects of the novel antipsychotic agent remoxipride on dopamine and noradrenaline turnover in the rat brain. Magnusson O, et al. **Pharmacol Toxicol** 1989 Oct;65(4):295-8

Cocaine abuse and its treatment. Hall WC, et al. **Pharmacotherapy** 1990;10(1):47-65 (110 ref.)

Lateralization of neocortical dopamine receptors and dopamine level in normal Wistar rats. Nowak G. **Pol J Pharmacol Pharm** 1989 Mar-Apr;41(2):133-7

Effect of MAO inhibitors on the uptake and metabolism of dopamine in rat and human brain. Tekes K, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec;40(6):653-8

Dopamine uptake sites in the striatum are distributed differentially in striosome and matrix compartments. Graybiel AM, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):9020-4

Distinct presynaptic control of dopamine release in striosomal and matrix areas of the cat caudate nucleus. Kemel ML, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):9006-10

Regulation by nicotine of midbrain dopamine neurons. Westfall TC, et al. **Prog Brain Res** 1989;79:173-85

Dopamine uptake: a review of progress in the last decade. Horn AS. **Prog Neurobiol** 1990;34(5):387-400 (169 ref.)

The effects of clozapine and fluperlapine on the in vivo release and metabolism of dopamine in the striatum and in the prefrontal cortex of freely moving rats. Imperato A, et al. **Psychopharmacol Bull** 1989;25(3):383-9

Sensitization versus tolerance to the dopamine turnover-elevating effects of haloperidol: the effect of regular/intermittent dosing. Csernansky JG, et al. **Psychopharmacology (Berl)** 1990;101(4):519-24

Prior stress attenuates the analgesic response but sensitizes the corticosterone and cortical dopamine responses to stress 10 days later. Caggiula AR, et al. **Psychopharmacology (Berlin)** 1989;99(2):233-7

Direct effect of 17 beta-estradiol on striatum: sex differences in dopamine release. Becker JB. **Synapse** 1990;5(2):157-64

Distribution of dopamine D1 and D2 receptors in rabbit cortical areas, hippocampus, and neostriatum in relation to dopamine contents. Dewar KM, et al. **Synapse** 1989; 4(4):378-86

Substantia nigra 6-hydroxydopamine lesions alter dopaminergic synaptic markers in the nucleus basalis magnocellularis and striatum of rats. Geula C, et al. **Synapse** 1989;4(3):248-53

1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity in the rat: characterization and age-dependent effects. Jarvis MF, et al. **Synapse** 1990; 5(2):104-12

Excitatory amino acid treatment of the ventromedial globus pallidus enhances dopamine utilization in the prefrontal cortex of the rat via the thalamic mediodorsal nucleus. Jones MW, et al. **Synapse** 1989;4(4):294–304

Effect of acute and daily cocaine treatment on extracellular dopamine in the nucleus accumbens. Kalivas PW, et al. **Synapse** 1990;5(1):48–58

In vivo characterization of locally applied dopamine uptake inhibitors by striatal microdialysis. Nomikos GG, et al. **Synapse** 1990;6(1):106–12

Effects of inorganic mercury on [3H]dopamine release and calcium homeostasis in rat striatal synaptosomes. Hare MF, et al. **Toxicol Appl Pharmacol** 1990 Feb;102(2):316–30

Triadimefon, a triazole fungicide, induces stereotyped behavior and alters monoamine metabolism in rats. Walker QD, et al. **Toxicol Appl Pharmacol** 1990 Mar 1; 102(3):474–85

Nicotinic involvement in ACh–DA interaction? [letter] Wonnacott S. **Trends Pharmacol Sci** 1989 Oct;10(10):395–6

Release pattern of endogenous dopamine in teleost retinae during light adaptation and pharmacological stimulation. Kirsch M, et al. **Vision Res** 1989;29(2):147–54

[The effect of prolyl–leucyl–glycine (MIF–1) and 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine on dopamine levels of the striatum] Sheng JG. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Aug; 22(4):213–5, 253 (Eng. Abstr.) **(Chi)**

[Myocardial catecholamine content in heart failure—I: Regional distribution in explanted hearts. Comparison between dilated cardiomyopathy and coronary heart disease] Regitz V, et al. **Z Kardiol** 1989 Dec;78(12):751–8 (Eng. Abstr.) **(Ger)**

[Myocardial catecholamine content in heart failure—II: Measurement in endomyocardial biopsies, reference systems, normal values] Regitz V, et al. **Z Kardiol** 1989 Dec;78(12):759–63 (Eng. Abstr.) **(Ger)**

[Are free oxygen radicals involved in the formation of changes caused by hypoxia in the neurotransmission of dopamine in the striatum of rats?] Scheuch C, et al. **Z Med Lab Diagn** 1990;31(3):128–33 (Eng. Abstr.) **(Ger)**

[Effect of MAO inhibitors on impeding synaptosomal withdrawal and on dopamine metabolism in rat and human brain] Tóthfalusi L, et al. **Acta Pharm Hung** 1989;59 Suppl 1:75–9 **(Hun)**

[Extracellular concentration of dopamine and dopamine metabolites in the rat striatum during cerebral ischemia and reperfusion] Matsumoto T, et al. **No To Shinkei** 1989 Oct; 41(10):1013–9 (Eng. Abstr.) **(Jpn)**

[Biochemical aspects of schizophrenia] Sano A, et al. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1380–7 **(Jpn)**

[Neurochemical and structural changes in schizophrenia—correlation with the clinical picture] Gamito AO. **Acta Med Port** 1990 Mar–Apr;3(2):123–5 (19 ref.) (Eng. Abstr.) **(Por)**

[Perspectives in the treatment of arterial hypertension: interventions at the dopaminergic system level] Soares–da–Silva P. **Rev Port Cardiol** 1988 Mar–Apr; 7(2):191–210 (208 ref.) (Eng. Abstr.) **(Por)**

[H3–dopamine and H3–quinuclidinylbenzilate binding by autonomic ganglia tissue in rats of various age] Iarygin VN, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):597–8 (Eng. Abstr.) **(Rus)**

[Effect of ethanol on the levels of dopamine and its metabolites in the brain of rats with different degree of sensitivity to stress] Iukhananov RIu, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):362–4 (Eng. Abstr.) **(Rus)**

[The role of the system of reverse capture of dopamine in the development of experimental Parkinsonism under the effect of 1–methyl–4–phenyl–1,2,5,6–tetrahydropyridine and its pyridine analogs] Bachurin SO, et al. **Dokl Akad Nauk SSSR** 1989;307(3):740–3 **(Rus)**

[The effect of a superhigh dose of ionizing radiation on the content of catecholamine mediators in different areas of the rat brain] Goncharenko EN, et al. **Radiobiologiia** 1989 Sep–Oct;29(5):709–11 (Eng. Abstr.) **(Rus)**

[Formation of p–tyramine from dopamine bound to synaptic receptors of the rat brain in vitro] Podgornaia EK, et al. **Ukr Biokhim Zh** 1989 Nov–Dec;61(6):27–31 (Eng. Abstr.) **(Rus)**

[Characteristics of biochemical, electrophysiological and morphological changes in experimental cerebral ischemia] Barkhatova VP, et al. **Zh Nevropatol Psikhiatr** 1989; 89(7):95–100 (Eng. Abstr.) **(Rus)**

[Pharmacologic study of dopamine catabolites on the contractility of isolated guinea pig myocardium] Chávez–Lara B, et al. **Arch Inst Cardiol Mex** 1989 Jul–Aug; 59(4):367–73 (Eng. Abstr.) **(Spa)**

[The electroretinogram and visual evoked potentials in patients with Parkinson's disease] Burguera JA, et al. **Arch Neurobiol (Madr)** 1990 Jan–Feb;53(1):1–7 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

Microdialysis studies of brain norepinephrine, serotonin, and dopamine release during ingestive behavior. Theoretical and clinical implications. Hoebel BG, et al. **Ann N Y Acad Sci** 1989;575:171–91; discussion 192–3 (114 ref.)

Pharmacokinetic analysis of absorption and metabolism of dopamine and a dopamine prodrug in dogs. Murata K, et al. **Biopharm Drug Dispos** 1990 Mar;11(2):149–56

Dopamine uptake inhibitory capacities of beta–carboline and 3,4–dihydro–beta–carboline analogs of N–methyl–4–phenyl–1,2,3,6–tetrahydropyridine (MPTP) oxidation products. Drucker G, et al. **Brain Res** 1990 Feb 12;509(1):125–33

Chloride ion increases [3H]dopamine accumulation by synaptic vesicles purified from rat striatum: inhibition by thiocyanate ion. Erickson JD, et al. **Brain Res** 1990 May 14;516(1):155–60

Dopamine infusion in healthy subjects and critically ill patients. Ratge D, et al. **Clin Exp Pharmacol Physiol** 1990 May;17(5):361–9

Striatal homogenates from animals chronically treated with haloperidol stimulate dopamine and GABA uptake in cultures of rostral mesencephalic tegmentum. Carvey PM, et al. **Clin Neuropharmacol** 1989 Oct;12(5):425–34

Dopamine clearance in critically ill infants and children: effect of age and organ system dysfunction. Notterman DA, et al. **Clin Pharmacol Ther** 1990 Aug;48(2):138–47

Dopamine transporter: biochemistry, pharmacology and imaging. Kuhar MJ, et al. **Eur Neurol** 1990;30 Suppl 1:15–20 (29 ref.)

Dopamine uptake sites and dopamine receptors in Parkinson's disease and schizophrenia. Pearce RK, et al. **Eur Neurol** 1990;30 Suppl 1:9–14

Biodistribution, dosimetry, metabolism and monkey PET studies of [18F]GBR 13119. Imaging the dopamine uptake system in vivo. Kilbourn MR, et al. **Int J Rad Appl Instrum [B]** 1989;16(6):569–76

Conjugation and deamination of circulating dopamine: relationship between sulfated and free dopamine in man. Claustre J, et al. **J Auton Nerv Syst** 1990 Feb;29(2):175–81

Monoamine–accumulating ganglion cell type of the cat's retina. Dacey DM. **J Comp Neurol** 1989 Oct 1;288(1):59–80

D–tartrate alters uptake of [3H]dopamine into brain synaptic vesicles. Reith ME, et al. **J Neurosci Methods** 1990 Feb; 31(2):133–6

Pharmacokinetics of dopamine in critically ill newborn infants. Padbury JF, et al. **J Pediatr** 1990 Sep;117(3):472–6

Bioavailability and pharmacokinetics of an oral dopamine prodrug in dogs. Murata K, et al. **J Pharm Sci** 1989 Oct; 78(10):812–4

Tissue and plasma levels of a teratogenic dose of dopamine in the chick embryo following pretreatment with metoprolol or phosphate buffered saline. Shields HE, et al. **Life Sci** 1990;46(16):1181–8

[3H]tyramine binding: a comparison with neuronal [3H]dopamine uptake and [3H]mazindol binding processes. Vaccari A, et al. **Neurochem Res** 1989 Oct;14(10):949–55

Involvement of extracellular calcium and arachidonate in [3H] dopamine release from rat tuberoinfundibular neurons. Ohmichi M, et al. **Neuroendocrinology** 1989 Oct;50(4):481–7

Millimolar concentrations of free magnesium enhance exocytosis from permeabilized rat pheochromocytoma (PC 12) cells. Wegenhorst U, et al. **Neurosci Lett** 1989 Dec 4;106(3):300–4

Subtypes of excitatory amino acid receptors involved in the stimulation of [3H]dopamine release from cell cultures of rat ventral mesencephalon. Mount H, et al. **Synapse** 1990; 5(4):271–80

PHARMACOLOGY

Effects of dopamine on intestinal hemodynamics and motility during epidural analgesia in the cat. Lundberg J, et al. **Acta Anaesthesiol Scand** 1989 Aug;33(6):487–93

Factors influencing the vascular action of dopamine in the canine mesenteric bed. Dóbi I, et al. **Acta Chir Hung** 1989; 30(4):251–60

Motility, haemodynamics and responsibility to vasoactive agents after revascularization of autotransplanted small intestine segments in the dog. Kreyer I, et al. **Acta Chir Hung** 1989;30(4):261–71

Long–term culture of rat mammotrope and somatotrope subpopulations separated on continuous Percoll density gradients: effects of dopamine, TRH, GHRH and somatostatin. Hofland LJ, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):127–36

Dopamine, dopexamine and dobutamine as inotropic and automatotropic agents. Lengyel C, et al. **Acta Physiol Hung** 1990;75 Suppl:193–4

Inotropic response of "stunned" myocardium induced by dopamine in dogs. Seres T, et al. **Acta Physiol Hung** 1990; 75 Suppl:257–8

Inactivation of aldehyde dehydrogenase in intact rat liver mitochondria by dopamine. Turan SC, et al. **Alcohol** 1989 Nov–Dec;6(6):455–60

Short–term regulation of Na+,K(+)–ATPase activity by dopamine. Bertorello A, et al. **Am J Hypertens** 1990 Jun; 3(6 Pt 2):51S–54S (13 ref.)

Effect of dopamine on renal blood flow, prostaglandins, renin and electrolyte excretion in normal and hypertensive humans. Horton R, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):108S–111S

Dopamine and natriuresis. Mechanism of action and developmental aspects. Seri I. **Am J Hypertens** 1990 Jun; 3(6 Pt 2):82S–86S (15 ref.)

Single lactotroph responses to dopamine, angiotensin II, and culture duration. Anderson JM, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E24–31

Dopamine stimulation of cAMP production in cultured opossum kidney cells. Cheng L, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F877–82

Dopamine inhibits Na(+)–H+ exchanger activity in renal BBMV by stimulation of adenylate cyclase. Felder CC, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):F297–303

Effects of dopamine on total oxygen consumption and oxygen delivery in healthy men. Ruttimann Y, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E541–6

Effect of dopamine on the tubuloglomerular feedback mechanism. Schnermann J, et al. **Am J Physiol** 1990 Apr; 258(4 Pt 2):F790–8

Influence of Na+ intake on dopamine–induced inhibition of renal cortical Na(+)–K(+)–ATPase. Seri I, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F52–60

Effects of vasoactive agents on uptake of immunoglobulin G complexes by mesangial cells. Singhal PC, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):F589–96

Hemodynamic responses of the equine digit to intravenous and digital arterial infusion of dopamine. Hunt RJ, et al. **Am J Vet Res** 1990 Apr;51(4):567–70

The effect of renal range dopamine and norepinephrine infusions on the renal vasculature. Strigle TR, et al. **Am Surg** 1990 Aug;56(8):494–6

Comparison of hemodynamic changes induced by adenosine monophosphate and sodium nitroprusside alone and during dopamine infusion in the anesthetized dog. Finegan BA, et al. **Anesth Analg** 1990 Jan;70(1):44–52

Intestinal hemodynamics during laparotomy: effects of thoracic epidural anesthesia and dopamine in humans. Lundberg J, et al. **Anesth Analg** 1990 Jul;71(1):9–15

Functional and metabolic effects of bucladesine (dibutyryl cyclic AMP) in the working rat heart preparation: comparison with dopamine. Hashimoto H, et al. **Arch Int Pharmacodyn Ther** 1989 Sep–Oct;301:200–14

Differential effects of atropine, procaine and dopamine in the rat ventral tegmentum on lateral hypothalamic rewarding brain stimulation. Kofman O, et al. **Behav Brain Res** 1990 Apr 16;38(1):55–68

Prolactin response to dopamine and valproate administration in breast cancer patients. Stalldecker GB, et al. **Biomed Pharmacother** 1989;43(4):301–6

Lithium does not reduce the natriuretic response to dopamine in man [letter] Schoors DF, et al. **Br J Clin Pharmacol** 1990 May;29(5):581–2

Vasodilator responses to dopamine in rat perfused mesentery are age–dependent. Wanstall JC, et al. **Br J Pharmacol** 1989 Sep;98(1):302–8

Dopamine and motor activity in the lobster Homarus gammarus. Barthe JY, et al. **Brain Res** 1989 Sep 18; 497(2):368–73

Postsynaptic long–term enhancement (LTE) by dopamine may be mediated by Ca2+ and calmodulin. Mochida S, et al. **Brain Res** 1990 Apr 9;513(1):144–8

Localization of cyclic adenosine monophosphate in the teleost retina: effects of dopamine and prolonged darkness. Young LH, et al. **Brain Res** 1989 Dec 11;504(1):57–63

Dopamine receptors expressed in the Xenopus oocytes injected with bovine striatal mRNA. Sakai Y, et al. **Brain Res Mol Brain Res** 1990 Feb;7(2):183–7

Dopamine and hepatic oxygen supply–demand relationship. Roytblat L, et al. **Can J Physiol Pharmacol** 1990 Aug; 68(8):1165–9

Perifusion studies of bromocriptine–treated and untreated macroprolactinomas: effects of dopamine, bromocriptine and TRH. Bevan JS, et al. **Clin Endocrinol (Oxf)** 1989 Jun; 30(6):667–80

Effect of dopamine and a dopamine D–1 receptor agonist on pulsatile thyrotrophin secretion in normal women. Boesgaard S, et al. **Clin Endocrinol (Oxf)** 1990 Apr; 32(4):423–31

Effects of dopamine on blood pressure and heart rate after microinjection into the hypothalamus of spontaneously hypertensive and normotensive Wistar–Kyoto rats. Mok JS, et al. **Clin Exp Hypertens [A]** 1990;12(1):15–36

Renal tubular reabsorption of sodium and water during infusion of low–dose dopamine in normal man. Olsen NV, et al. **Clin Sci** 1990 May;78(5):503–7

Inhibitory effects of clonidine and dopamine on adenylate cyclase of rabbit ciliary processes. Cepelík J, et al. **Curr Eye Res** 1990 Feb;9(2):111–20

Differential effects of dopamine on glucoregulatory hormones in rats. Keck FS, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):155–9

Dopamine interrupts gastrointestinal fed motility pattern in humans. Effect on motilin and somatostatin blood levels. Marzio L, et al. **Dig Dis Sci** 1990 Mar;35(3):327–32

Effects of intravitreal perfusion with dopamine in different concentrations on the DC electroretinogram and the standing potential of the albino rabbit eye. Textorius O, et al. **Doc Ophthalmol** 1989 Oct;73(2):149–62

Ascorbic acid potentiates the inhibitory effect of dopamine on prolactin release: a putative supplementary agent for PIF. Shin SH, et al. **Endocrinol Exp** 1990 Mar; 24(1–2):151–8

A comparison of the concentration–dependent actions of thyrotropin–releasing hormone, angiotensin II, bradykinin, and Lys–bradykinin on cytosolic free calcium dynamics in rat anterior pituitary cells: selective effects of dopamine. Kuan SI, et al. **Endocrinology** 1990 Oct;127(4):1841–8

Dopamine inhibits two characterized voltage–dependent calcium currents in identified rat lactotroph cells. Lledo PM, et al. **Endocrinology** 1990 Sep;127(3):990–1001

Interactions of dopamine and neurotensin on calcium fluxes

and prolactin release in normal rat pituitary cells. Login IS, et al. **Endocrinology** 1990 Oct;127(4):1948–55

Dopamine inhibits corticosteroid secretion from frog adrenal gland, in vitro. Morra M, et al. **Endocrinology** 1990 Jul; 127(1):218–26

Chronic imipramine reduces [3H]SCH 23390 binding and DA–sensitive adenylate cyclase in the limbic system. De Montis GM, et al. **Eur J Pharmacol** 1989 Aug 22; 167(2):299–303

Dopaminergic inhibition of striatal acetylcholine release after 6–hydroxydopamine. MacKenzie RG, et al. **Eur J Pharmacol** 1989 Sep 1;168(1):43–52

The effects of ions and hypothalamic factors on the in vitro activity of rainbow trout prolactin cells. Johnston LR, et al. **Gen Comp Endocrinol** 1990 Aug;79(2):253–60

Continuous multi–channel intravascular monitoring of the effects of dopamine and dobutamine on plasma potassium in dogs. Drake HF, et al. **Intensive Care Med** 1989; 15(7):446–51

The effects of beta blockade on dopamine and dobutamine induced hypokalaemia in dogs. Smith M, et al. **Intensive Care Med** 1989;15(7):452–7

Pharmacological bases for the use of dopamine and related drugs in the treatment of congestive heart failure. Goldberg LI. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S21–8 (45 ref.)

Vascular responses to dopamine and dobutamine in the awake calf during constant aortic flow or constant aortic pressure. Greiner AS, et al. **J Cardiovasc Pharmacol** 1990 Mar; 15(3):392–7

Inhibition of aldosterone secretion by dopamine, ibopamine, and dihydroergotoxine in patients with congestive heart failure. Missale C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S72–6

A novel orally active dopamine prodrug TA–870. III. Positive inotropic effect and cardiorenal selectivity in anesthetized dogs. Nishiyama S, et al. **J Cardiovasc Pharmacol** 1990 Feb;15(2):283–90

Dopamine and new dopamine analogs: receptors and clinical applications. Goldberg LI. **J Clin Anesth** 1988;1(1):66–74 (77 ref.)

Comparison of dopamine and fenoldopam effects on renal blood flow and prostacyclin excretion in normal and essential hypertensive subjects. Bughi S, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1116–21

Normal and adenomatous human pituitaries secrete thyrotropin–releasing hormone in vitro: modulation by dopamine, haloperidol, and somatostatin. Le Dafniet M, et al. **J Clin Endocrinol Metab** 1990 Aug;71(2):480–6

Therapeutic applications of drugs acting on peripheral dopamine receptors. Horn PT, et al. **J Clin Pharmacol** 1990 Aug;30(8):674–9 (51 ref.)

Direct pituitary inhibition of prolactin secretion by dopamine and noradrenaline in sheep. Thomas GB, et al. **J Endocrinol** 1989 Dec;123(3):393–402

Characterization of relaxin–stimulated cyclic AMP in cultured rat anterior pituitary cells: influence of dopamine, somatostatin and gender. Cronin MJ, et al. **J Mol Endocrinol** 1989 Nov;3(3):175–82

Dopamine induces light–adaptive retinomotor movements in bullfrog cones via D2 receptors and in retinal pigment epithelium via D1 receptors. Dearry A, et al. **J Neurochem** 1990 Apr;54(4):1367–78

Cyclic AMP–dependent induction of serotonin N–acetyltransferase activity in photoreceptor–enriched chick retinal cell cultures: characterization and inhibition by dopamine. Iuvone PM, et al. **J Neurochem** 1990 Aug; 55(2):673–82

Mu–opioid receptors mediate the inhibitory effect of opioids on dopamine–sensitive adenylate cyclase in primary cultures of rat neostriatal neurons. Van Vliet BJ, et al. **J Neurochem** 1990 Oct;55(4):1274–80

Catecholaminergic effects on neuronal activity related to a delayed response task in monkey prefrontal cortex. Sawaguchi T, et al. **J Neurophysiol** 1990 Jun;63(6):1385–400

Effects of long–term haloperidol treatment on the responsiveness of accumbens neurons to cholecystokinin and dopamine: electrophysiological and radioligand binding studies in the rat. Debonnel G, et al. **J Neurosci** 1990 Feb;10(2):469–78

Synaptic modulation by dopamine of calcium currents in rat pars intermedia. Williams PJ, et al. **J Neurosci** 1990 Mar; 10(3):757–63

Cyclic adenosine monophosphate as a second messenger in horizontal cell uncoupling in the teleost retina. Laufer M, et al. **J Neurosci Res** 1989 Oct;24(2):299–310

Pharmacological characterization of rat renal medulla dopamine–sensitive cyclic adenosine monophosphate generating system. Amenta F, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):246–9

Functional interaction between serotonin–S2 and dopamine–D2 neurotransmission as revealed by selective antagonism of hyper–reactivity to tryptamine and apomorphine. Awouters F, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):945–51

Interactions between hypoxia, acetylcholine and dopamine in the carotid body of rabbit and cat. Ponte J, et al. **J Physiol (Lond)** 1989 Mar;410:395–410

Low dose dopamine protects against hemorrhagic pancreatitis in cats. Karanjia ND, et al. **J Surg Res** 1990 May;48(5):440–3

The dopamine–induced coronary vasoconstrictor response is potentiated by adenosine administration in the dog heart. Kollár A, et al. **Jpn Heart J** 1989 Sep;30(5):709–21

Alpha 2–mediated effect of dopamine on the motility of the chicken esophagus. Sánchez J, et al. **Life Sci** 1990; 46(2):121–6

Age–related changes of dopamine sensitive cyclic AMP generation in the rat frontal cortex. Amenta F, et al. **Mech Ageing Dev** 1990 May 15;54(1):63–73

A high concentration of dopamine preferentially permitted release of newly synthesized prolactin. Stirling RG, et al. **Mol Cell Endocrinol** 1990 Mar 26;70(1):65–72

Characteristics of rat kidney dopamine receptors and the effects of renal denervation and dopamine infusion on these receptors. Katayama E, et al. **Nephron** 1989;53(4):358–63

Plateau potentials recorded from lactating rat enriched lactotroph cells are triggered by thyrotropin releasing hormone and shortened by dopamine. Israel JM, et al. **Neuroendocrinology** 1990 Feb;51(2):113–22

An alpha 40 subunit of a GTP–binding protein immunologically related to Go mediates a dopamine–induced decrease of Ca2+ current in snail neurons. Harris–Warrick RM, et al. **Neuron** 1988 Mar; 1(1):27–32

The metabolism of systemically–administered L–dihydroxyphenylalanine, by intact and dopamine–denervated striata, as revealed by brain microdialysis. Touchet N, et al. **Neuropharmacology** 1989 Nov;28(11):1217–22

Change in sensitivity to dopamine in amygdalar neurons of free–moving rats at initiation of interspecies aggression. Gromov AI. **Neurosci Behav Physiol** 1989 Sep–Oct; 19(5):385–6

Dopamine and FMRFamide act directly on isolated gill muscle fibers in culture. Cawthorpe D, et al. **Neurosci Lett** 1990 Jun 8;113(3):345–8

Effects of phenylephrine and dopamine on cerebral blood flow, blood volume, and oxygenation in young rabbits. Koyama K, et al. **Pediatr Neurol** 1990 Mar–Apr;6(2):87–90

Effect of low dose dopamine on hemodynamic and renal function in children. Girardin E, et al. **Pediatr Res** 1989 Sep;26(3):200–3

A sedative effect of dopamine on the respiratory burst in neonatal polymorphonuclear leukocytes. Matsuoka T. **Pediatr Res** 1990 Jul;28(1):24–7

Corticotropin–releasing factor release from in vitro superfused and incubated rat hypothalamus. Effect of potassium, norepinephrine, and dopamine. Joanny P, et al. **Peptides** 1989 Sep–Oct;10(5):903–11

Dopamine–induced relaxation of the guinea–pig isolated jejunum is not mediated through dopamine receptors. Lucchelli A, et al. **Pharmacol Res** 1990 Jul–Aug; 22(4):433–44

Dopamine versus dobutamine: are all the facts there? Mutnick AH, et al. **Pharmacotherapy** 1990;10(3):224–9 (31 ref.)

Dopamine modulates the kinetics of ion channels gated by excitatory amino acids in retinal horizontal cells. Knapp AG, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):767–71

Horizontal cell gap junctions: single–channel conductance and modulation by dopamine. McHahon DG, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7639–43

Expression of striatal D1 dopamine receptors coupled to inositol phosphate production and Ca2+ mobilization in Xenopus oocytes. Mahan LC, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2196–200

Can the supersensitivity of rodents to dopamine be regarded as a model of tardive dyskinesia? Wolfarth S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):799–840 (290 ref.)

Influence of dopamine on the liver assessed by changes in arterial ketone body ratio in brain–dead dogs. Okamoto R, et al. **Surgery** 1990 Jan;107(1):36–42

Effect of dopamine on parathyroid hormone release during surgery. Mikawa K, et al. **Thorac Cardiovasc Surg** 1989 Aug;37(4):213–20

[The effect of dopamine on hemodynamic and hormonal parameters in liver cirrhosis] Tesař V, et al. **Cas Lek Cesk** 1990 Apr 27;129(17):520–5 (Eng. Abstr.) **(Cze)**

[Effects of dopamine infusion on the release of atrial natriuretic factor] Fontana F, et al. **G Ital Cardiol** 1990 Mar;20(3):227–35 (Eng. Abstr.) **(Ita)**

[Effects of dopamine and dobutamine on hepatic circulation and metabolism in hemorrhagic hypotensive pigs] Kageshima K, et al. **Masui** 1990 May;39(5):592–9 (Eng. Abstr.) **(Jpn)**

[Study of the effects of dopamine hydrochloride on alpha 1–adrenoceptors in rat kidney] Furuta H, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Jan;81(1):82–8 (Eng. Abstr.) **(Jpn)**

[Effect of dopamine on left–ventricular systolic time interval in children after open–heart surgery] Kruszyński Z, et al. **Pediatr Pol** 1989 Oct–Dec;64(10–12):612–8 (Eng. Abstr.) **(Pol)**

[The sensitivity of the blood lymphocytes in stomach cancer patients to met–enkephalin, dopamine and serotonin] Kharkevich DD, et al. **Eksp Onkol** 1990;12(2):66–8 (Eng. Abstr.) **(Rus)**

[The effect of dopamine on the systemic hemodynamic indices, on the blood supply of an ischemic focus and on the plasma enzyme activity in dogs with acute coronary occlusion] Katkov EV, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):19–23 (Eng. Abstr.) **(Rus)**

[The action of dopamine and serotonin on the cells of an isolated spinal cord ganglion of the rat] Molokanova EA, et al. **Neirofiziologiia** 1989;21(5):644–51 (Eng. Abstr.) **(Rus)**

[The effect of dopamine and serotonin on the neurons of the pteropod mollusk that control tail movements in the development of a passive defense reaction] Norekian TP. **Neirofiziologiia** 1990;22(2):269–72 (Eng. Abstr.) **(Rus)**

[Pentagastrin modulation of the neuronal sensitivity of the lateral hypothalamus to noradrenaline and dopamine] Borisova EV, et al. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec; 39(6):1079–86 (Eng. Abstr.) **(Rus)**

[The role of dopamine and serotonin in modulating the defensive behavior of the edible snail] Chistiakova MV. **Zh Vyssh Nerv Deiat** 1989 Sep–Oct;39(5):941–8 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Dopaminergic–cholinergic interaction in a myoclonus of papio papio baboon. Rektor I, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):271–2

Comparison of the effects of (–)deprenyl, 1–phenyl–2–propyl–aminopentane (MK–306) and amphetamine on the striatal and limbic dopaminergic system. Timár J, et al. **Acta Physiol Hung** 1990;75 Suppl:279–80

Different sensitivity of cholinergic and dopaminergic neurons to sulpiride. Törőcsik A, et al. **Acta Physiol Hung** 1990; 75 Suppl:283–4

Nicotine counteracts midbrain dopamine cell dysfunction induced by prefrontal cortex inactivation. Tung CS, et al. **Acta Physiol Scand** 1990 Mar;138(3):427–8

Serotonin, dopamine and GABA involvement in alcohol drinking of selectively bred rats. McBride WJ, et al. **Alcohol** 1990 May–Jun;7(3):199–205 (36 ref.)

Cardiovascular adrenergic activity of dopamine in the dog. Black WL, et al. **Am Heart J** 1968 Feb;75(2):233–9

The peripheral dopaminergic system. Basic and clinical advances. **Am J Hypertens** 1990 Jun;3(6 Pt 2):1S–2S

Functional effects of proximal tubular dopamine production. Baines AD. **Am J Hypertens** 1990 Jun;3(6 Pt 2):68S–71S (17 ref.)

Role of endogenous dopamine in the natriuresis accompanying various sodium challenges. Bass AS, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):90S–92S (15 ref.)

Identification of dopaminergic nerves in humans. Bell C, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):4S–6S (15 ref.)

Dopamine modulation of pathological human chromaffin tissue. Mannelli M, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):22S–24S

Dopaminergic regulation of aldosterone secretion. Biochemical mechanisms and pharmacology. Missale C, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):93S–95S (15 ref.)

Dopaminergic modulation of acute renal effects of nicardipine. Montanari A, et al. **Am J Hypertens** 1990 Jun; 3(6 Pt 2):130S–133S

Dopamine, its receptors, and atrial natriuretic peptide. Murphy MB, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):55S–58S (15 ref.)

Dopamine in chronic renal failure. Smit AJ. **Am J Hypertens** 1990 Jun;3(6 Pt 2):75S–77S (11 ref.)

Dopamine and nonmodulating hypertension. Williams GH, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 2):112S–115S

Dopamine–1 receptors in rat proximal convoluted tubule: regulation by intrarenal dopamine. Kinoshita S, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F1068–74

Role of catecholamines in regulating ovine median eminence blood flow. Page RB, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1242–9

Orosensory self–stimulation by sucrose involves brain dopaminergic mechanisms. Schneider LH. **Ann N Y Acad Sci** 1989;575:307–19; discussion 319–20 (45 ref.)

Positron emission tomography in Shy–Drager syndrome. Bhatt MH, et al. **Ann Neurol** 1990 Jul;28(1):101–3

Age–related changes in the human nigrostriatal dopaminergic system. De Keyser J, et al. **Ann Neurol** 1990 Feb; 27(2):157–61

The short–duration response to apomorphine: implications for the mechanism of dopaminergic effects in parkinsonism. Gancher ST, et al. **Ann Neurol** 1990 Jun;27(6):660–5

Midbrain dopaminergic cell loss in Parkinson's disease: computer visualization. German DC, et al. **Ann Neurol** 1989 Oct;26(4):507–14

Does adrenal graft enhance recovery of dopaminergic neurons in Parkinson's disease? Hirsch EC, et al. **Ann Neurol** 1990 Jun;27(6):676–82

Dopamine cell replacement: Parkinson's disease. Yurek DM, et al. **Annu Rev Neurosci** 1990;13:415–40 (169 ref.)

6–Hydroxydopamine lesion of the rat prefrontal cortex increases locomotor activity, impairs acquisition of delayed alternation tasks, but does not affect uninterrupted tasks in the radial maze. Bubser M, et al. **Behav Brain Res** 1990 Mar 5;37(2):157–68

Differences in sensitivity to neuroleptic blockade: medial forebrain bundle versus frontal cortex self–stimulation. Corbett D. **Behav Brain Res** 1990 Jan 1;36(1–2):91–6

Nigral D1 and striatal D2 receptors mediate the behavioral effects of dopamine agonists. LaHoste GJ, et al. **Behav Brain Res** 1990 May 28;38(3):233–42

Yawning behavior in male rats is associated with decreases in in vivo DOPAC efflux from the caudate nucleus. Laping NJ, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):65–72

Involvement of prefrontal dopamine neurones in behavioural blockade induced by controllable vs uncontrollable negative events in rats. Ravard S, et al. **Behav Brain Res** 1990 Feb 12;37(1):9–18

Enkephalin–dopamine interactions in the central amygdalar nucleus during gastric stress ulcer formation in rats. Ray A, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):179–83

Age–dependent plasticity in the dopaminergic control of sensorimotor development. Weihmuller FB, et al. **Behav Brain Res** 1989 Nov 1;35(2):95–109

Intra–habenular injection of 6–hydroxydopamine produces impaired acquisition of DRL operant behavior. Thornton EW, et al. **Behav Neural Biol** 1990 Mar;53(2):291–7

Reinforcing properties of ejaculation in the male rat: role of opioids and dopamine. Agmo A, et al. **Behav Neurosci** 1990 Feb;104(1):177–82

The effects of dihydropyridine compounds in behavioural tests of dopaminergic activity. Bourson A, et al. **Br J Pharmacol** 1989 Dec;98(4):1312–8

Effects of B–HT 920 on nigrostriatal and mesolimbic dopamine systems in normosensitive and supersensitive rats. Clarke PB, et al. **Br J Pharmacol** 1990 Mar;99(3):509–15

The involvement of 5–hydroxytryptaminergic and dopaminergic mechanisms in the eating induced by buspirone, gepirone and ipsapirone. Fletcher PJ, et al. **Br J Pharmacol** 1990 Mar;99(3):519–25

Effect of 5–HT3 receptor antagonists on responses to selective activation of mesolimbic dopaminergic pathways in the rat. Hagan RM, et al. **Br J Pharmacol** 1990 Feb; 99(2):227–32

Actions of cocaine on rat dopaminergic neurones in vitro. Lacey MG, et al. **Br J Pharmacol** 1990 Apr;99(4):731–5

Affective 'switch mechanisms' [letter; comment] Mobayed M. **Br J Psychiatry** 1989 Jun;154:884 Comment on: Br J Psychiatry 1989 Jan;154:48–51.

The dynamics of complex biological psychosocial systems. Four fundamental psycho–biological mediators in the long–term evolution of schizophrenia. Ciompi L. **Br J Psychiatry Suppl** 1989 Jul;(5):15–21 (53 ref.)

Dopaminergic balance and subtypes of schizophrenia. Dávila R, et al. **Br J Psychiatry Suppl** 1989 May;(4):57–60 (26 ref.)

A new conception of the relationship between psychological coping mechanisms and biological stress buffering systems. Friedhoff AJ, et al. **Br J Psychiatry Suppl** 1989 May; (4):61–6 (15 ref.)

Abnormal ocular movements in Parkinson's disease. Evidence for involvement of dopaminergic systems. Rascol O, et al. **Brain** 1989 Oct;112 (Pt 5):1193–214

The effects of serotonergic and dopaminergic lesions on sodium–sensitive [3H]mazindol binding in rat hypothalamus and corpus striatum. Angel I, et al. **Brain Res** 1989 Dec 4;503(2):339–41

Sustained behavioral recovery from unilateral nigrostriatal damage produced by the controlled release of dopamine from a silicone polymer pellet placed into the denervated striatum. Becker JB, et al. **Brain Res** 1990 Jan 29; 508(1):60–4

Ethanol increases the firing rate of dopamine neurons of the rat ventral tegmental area in vitro. Brodie MS, et al. **Brain Res** 1990 Jan 29;508(1):65–9

In vivo studies on the enhancement of cholecystokinin release in the rat striatum by dopamine depletion. Butcher SP, et al. **Brain Res** 1989 Dec 25;505(1):119–22

Dopamine depletion in neonatal rats: effects on behavior and striatal dopamine release assessed by intracerebral microdialysis during adulthood. Castañeda E, et al. **Brain Res** 1990 Jan 29;508(1):30–9

Interaction between the serotonin and dopamine systems in humans: preliminary findings. Castrogiovanni P, et al. **Brain Res** 1989 Dec 11;504(1):129–31

Fetal dopamine neuron transplants prevent behavioral supersensitivity induced by repeated administration of L–dopa in the rat. Gaudin DP, et al. **Brain Res** 1990 Jan 1;506(1):166–8

Dopaminergic involvement in the cocaine–induced up–regulation of benzodiazepine receptors in the rat caudate nucleus. Goeders N, et al. **Brain Res** 1990 May 7;515(1–2):1–8

Evidence for the functional compartmentalization of spike generating regions of rat midbrain dopamine neurons recorded in vitro. Grace AA. **Brain Res** 1990 Jul 30; 524(1):31–41

The reserpine–sensitive dopamine pool mediates (+)–amphetamine–conditioned reward in the place preference paradigm. Hiroi N, et al. **Brain Res** 1990 Feb 26;510(1):33–42

Substantia nigra–mediated anticonvulsant action: a possible role of a dopaminergic component. La Grutta V, et al. **Brain Res** 1990 May 7;515(1–2):87–93

Non–additivity of D2 receptor proliferation induced by dopamine denervation and chronic selective antagonist administration: evidence from quantitative autoradiography indicates a single mechanism of action. LaHoste GJ, et al. **Brain Res** 1989 Nov 20;502(2):223–32

Long–term effects of early social isolation in Macaca mulatta: changes in dopamine receptor function following apomorphine challenge. Lewis MH, et al. **Brain Res** 1990 Apr 9;513(1):67–73

3,4–Dihydroxyphenylacetic acid concentrations in the intermediate lobe and neural lobe of the posterior pituitary gland as an index of tuberohypophysial dopaminergic neuronal activity. Lindley SE, et al. **Brain Res** 1990 Jan 1;506(1):133–8

Dopamine enhances a voltage–dependent transient K+ current in the MMQ cell, a clonal pituitary line expressing functional D2 dopamine receptors. Login IS, et al. **Brain Res** 1990 Jan 8;506(2):331–4

Hyperactivity following posterior cortical injury is lateralized, sensitive to lesion size and independent of the nigrostriatal dopamine system. McMahon FJ, et al. **Brain Res** 1989 Dec 4;503(2):185–90

Dopamine uptake inhibitors block long–term neurotoxic effects of methamphetamine upon dopaminergic neurons. Marek GJ, et al. **Brain Res** 1990 Apr 16;513(2):274–9

Sequential course of uptake of intravitreal 5,7–dihydroxytryptamine by carp retinal cells. Negishi K, et al. **Brain Res** 1990 Jan 29;508(1):135–41

Lesions of the dopaminergic nigrostriatal system in neonatal rats: effects on the electrophysiological activity of striatal neurons recorded during adulthood. Onn SP, et al. **Brain Res** 1990 Jun 4;518(1–2):274–8

The effects of intracranial administration of the dopamine agonist apomorphine on penile reflexes and seminal emission in the rat. Pehek EA, et al. **Brain Res** 1989 Oct 23;500(1–2):325–32

Multiple, but not acute, infusions of cocaine alter the release of prolactin in male rats. Pilotte NS, et al. **Brain Res** 1990 Mar 26;512(1):107–12

Lack of change in striatal DARPP–32 levels following nigrostriatal dopaminergic lesions in animals and in parkinsonian syndromes in man. Raisman–Vozari R, et al. **Brain Res** 1990 Jan 15;507(1):45–50

The effects of intranigral GABA and dynorphin A injections on striatal dopamine and GABA release: evidence that dopamine provides inhibitory regulation of striatal GABA neurons via D2 receptors. Reid MS, et al. **Brain Res** 1990 Jun 11;519(1–2):255–60

Opposite dopaminergic activity in lateral and median hypothalamic nuclei in relation to the feeding effect of D–Ser2–Leu–Enk–Thr6 (DSLET). Robert JJ, et al. **Brain Res** 1990 Feb 26;510(1):7–11

Disappearance of the mu–opiate receptor patches in the rat neostriatum following lesioning of the ipsilateral nigrostriatal dopamine pathway with 1–methyl–4–phenylpyridinium ion (MPP+): restoration by embryonic nigral dopamine grafts. Sirinathsinghji DJ, et al. **Brain Res** 1989 Dec 11;504(1):115–20

D1 dopamine receptor–mediated substance P depletion in the striatonigral neurons of rats subjected to neonatal dopaminergic denervation: implications for self–injurious behavior. Sivam SP. **Brain Res** 1989 Oct 23;500(1–2):119–30

Amphetamine sensitization of stress–induced turning in animals given unilateral dopamine transplants in infancy. Snyder–Keller AM, et al. **Brain Res** 1990 Apr 23; 514(1):143–6

Ascending dopaminergic projections from the dorsal raphe nucleus in the rat. Stratford TR, et al. **Brain Res** 1990 Mar 12;511(1):173–6

Regulation of alpha–melanocyte–stimulating hormone release from superfused slices of rat hypothalamus by serotonin and the interaction of serotonin with the dopaminergic system inhibiting peptide release. Tiligada E, et al. **Brain Res** 1989 Dec 4;503(2):225–8

Characterization of opioid receptors in rat nucleus accumbens following mesolimbic dopaminergic lesions. Unterwald EM, et al. **Brain Res** 1989 Dec 25;505(1):111–8

Functional recovery after destruction of dopamine systems in the nucleus accumbens of rats. I. Behavioral and biochemical studies. Wolterink G, et al. **Brain Res** 1990 Jan 15;507(1):92–100

Functional recovery after destruction of dopamine systems in the nucleus accumbens of rats. II. Facilitation by the ACTH–(4–9) analog ORG 2766. Wolterink G, et al. **Brain Res** 1990 Jan 15;507(1):101–8

Functional recovery after destruction of dopamine systems in the nucleus accumbens of rats. III. Further analysis of the facilitating effect of the ACTH–(4–9) analog ORG 2766. Wolterink G, et al. **Brain Res** 1990 Jan 15; 507(1):109–14

Functional recovery after destruction of dopamine systems in the nucleus accumbens of rats. IV. Delay by intra–accumbal treatment with ORG 2766– or alpha–MSH antiserum. Wolterink G, et al. **Brain Res** 1990 Jan 15; 507(1):115–20

Cyclic changes in dopamine and DOPAC content, and tyrosine hydroxylase activity in the retina of a cichlid fish. Wulle I, et al. **Brain Res** 1990 May 7;515(1–2):163–7

Inhibitory role of periventricular dopaminergic mechanisms in hemorrhage–induced vasopressin secretion in conscious rats. Yamaguchi K, et al. **Brain Res** 1990 Apr 16; 513(2):335–8

Connectivities of the striatal grafts in adult rat brain: a rich afference and scant striatonigral efference. Zhou FC, et al. **Brain Res** 1989 Dec 11;504(1):15–30

Dissociating the effects of altered dopaminergic function on performance and learning. Beninger RJ. **Brain Res Bull** 1989 Oct–Nov;23(4–5):365–71 (35 ref.)

The use of place conditioning in studying the neuropharmacology of drug reinforcement. Hoffman DC. **Brain Res Bull** 1989 Oct–Nov;23(4–5):373–87

Behavioral and biochemical effects of intra–accumbens dopaminergic grafts. Ishida Y, et al. **Brain Res Bull** 1990 Mar;24(3):487–92

Organotypic slice cultures of dopaminergic neurons of substantia nigra. Jaeger C, et al. **Brain Res Bull** 1989 Jun; 22(6):981–91

The influence of cholesterol on synaptic fluidity, dopamine D1 binding and dopamine–stimulated adenylate cyclase. Maguire PA, et al. **Brain Res Bull** 1989 Jul–Aug; 23(1–2):69–74

Mesostriatal projections in BALB/c and CBA mice: a quantitative retrograde neuroanatomical tracing study. Mattiace LA, et al. **Brain Res Bull** 1989 Jul–Aug; 23(1–2):61–8

Neuronal markers in rat retinal grafts. Aramant R, et al. **Brain Res Dev Brain Res** 1990 Apr 1;53(1):47–61

Postnatal development of the electrical activity of rat nigrostriatal dopaminergic neurons. Tepper JM, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):21–33

Adrenal medulla graft induced recovery of function in an animal model of Parkinson's disease: possible mechanisms of action. Becker JB, et al. **Can J Psychol** 1990 Jun; 44(2):293–310 (80 ref.)

Compensatory changes in striatal dopamine neurons following recovery from injury induced by 6–OHDA or methamphetamine: a review of evidence from microdialysis studies. Robinson TE, et al. **Can J Psychol** 1990 Jun; 44(2):253–75 (100 ref.)

Evidence for a dopaminergic mechanism for the diuretic and natriuretic action of centrally administered atrial natriuretic factor. Israel A, et al. **Cell Mol Neurobiol** 1989 Sep; 9(3):369–78

Possible involvement of dopaminergic mechanisms in the antimigraine action of flunarizine. Piccini P, et al. **Cephalalgia** 1990 Feb;10(1):3–8

Interaction of amineptine with agents modifying dopaminergic transmission. Chagraoui A, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S19–31

Effect of .nagnesium on dopamine–induced postischemic injury in the isolated rat heart. Takla MW, et al. **Curr Surg** 1989 Nov–Dec;46(6):470–1

Dopamine in gastrointestinal disease. Glavin GB, et al. **Dig Dis Sci** 1990 Sep;35(9):1153–61 (89 ref.)

Electrooculographic study in the chicken after treatment with neurotoxin 6–hydroxydopamine. Rudolf G, et al. **Doc Ophthalmol** 1989 May;72(1):83–91

The preovulatory prolactin surge is prolonged by a progesterone–dependent dopaminergic mechanism. Arbogast LA, et al. **Endocrinology** 1990 Jan;126(1):246–52

Epoxygenase products of arachidonic acid are endogenous constituents of the hypothalamus involved in D2 receptor–mediated, dopamine–induced release of somatostatin. Junier MP, et al. **Endocrinology** 1990 Mar; 126(3):1534–40

Interactions of dopaminergic and peptidergic factors in the control of prolactin release. Mogg RJ, et al. **Endocrinology** 1990 Feb;126(2):728–35

Dopaminergic mediation of physiological changes in proopiomelanocortin messenger ribonucleic acid expression in the neurointermediate lobe of the rat pituitary. Pardy K, et al. **Endocrinology** 1990 Jun;126(6):2960–4

Prolactin or dopamine mediates the induction of puberty by long days in female ferrets. Ryan KD, et al. **Endocrinology** 1989 Nov;125(5):2605–11

Catecholaminergic systems and amygdala kindling development. Effects of bilateral lesions of substantia nigra dopaminergic or locus coeruleus noradrenergic neurones. N'Gouemo P, et al. **Epilepsy Res** 1990 Mar;5(2):92–102

The role of the mesolimbic dopaminergic system in the desipramine effect in the forced swimming test. Cervo L, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):129–33

Central dopaminergic transmission is selectively increased in the limbic system of rats chronically exposed to antidepressants. De Montis GM, et al. **Eur J Pharmacol** 1990 May 3;180(1):31–5

(+/–)–3,4–Methylenedioxymethamphetamine–induced changes in the basal activity and pharmacological responsiveness of nigrostriatal dopamine neurons. Kelland MD, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):11–21

Interaction of central serotonin and dopamine in the regulation of carbaryl–induced tremor. Ray SK, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):159–66

The role of the dopaminergic system in the modulation of the acoustic startle response in the rat. Svensson L. **Eur J Pharmacol** 1990 Jan 3;175(1):107–11

6–18F–L–dopa imaging of the dopamine neostriatal system in normal and clinically normal MPTP–treated rhesus monkeys. Doudet DJ, et al. **Exp Brain Res** 1989;78(1):69–80

Modifications of precentral cortex discharge and EMG activity in monkeys with MPTP–induced lesions of DA nigral neurons. Doudet DJ, et al. **Exp Brain Res** 1990; 80(1):177–88

Morphometric analysis of prefrontal cortical development following neonatal lesioning of the dopaminergic mesocortical projection. Kalsbeek A, et al. **Exp Brain Res** 1989;78(2):279–89

Neuropeptide gene expression in brain is differentially regulated by midbrain dopamine neurons. Lindefors N, et al. **Exp Brain Res** 1990;80(3):489–500

Region specific regulation of glutamic acid decarboxylase mRNA expression by dopamine neurons in rat brain. Lindefors N, et al. **Exp Brain Res** 1989;77(3):611–20

Nigral grafts in neonatal rats protect from aphagia induced by subsequent adult 6–OHDA lesions: the importance of striatal location. Rogers DC, et al. **Exp Brain Res** 1990;

80(1):172–6
Dopamine D1 heteroreceptors on striatonigral axons are not stimulated by endogeneous dopamine either tonically or after amphetamine: evidence from terminal excitability. Ryan LJ, et al. **Exp Brain Res** 1989;77(1):161–5
Expression of neuropeptide Y immunoreactivity in the rat nucleus accumbens is under the influence of the dopaminergic mesencephalic pathway. Salin P, et al. **Exp Brain Res** 1990;81(2):363–71
Embryonic mesencephalic and striatal co-grafts: development of grafted dopamine neurons and functional recovery. Yurek DM, et al. **Exp Neurol** 1990 Aug; 109(2):191–9
Acetylcholine–dopamine balance in striatum: is it still a target for antiparkinsonian therapy? Calabresi P, et al. **Experientia Suppl** 1989;57:315–21
Evidence for the involvement of dopamine and 5-hydroxytryptamine in the regulation of the preovulatory release of luteinizing hormone in the domestic hen. Sharp PJ, et al. **Gen Comp Endocrinol** 1989 Nov;76(2):205–13
Effects of dihydroergotoxine on some dopamine-related behaviors in rats. Flório JC, et al. **Gen Pharmacol** 1990; 21(4):411–5
Prenatal cocaine exposure fails to modify neurobehavioral responses and the striatal dopaminergic system in newborn rats. Fung YK, et al. **Gen Pharmacol** 1989;20(5):689–93
Influences of estrogen and/or progesterone on some dopamine related behavior in rats. Palermo-Neto J, et al. **Gen Pharmacol** 1990;21(1):83–7
Dopamine might not be involved in the pathogenesis of polycystic ovary syndrome. Ferriani RA, et al. **Gynecol Endocrinol** 1989 Dec;3(4):317–27
Hyperprolactinemia in hepatic encephalopathy may result from impaired central dopaminergic neurotransmission. Corenblum B, et al. **Horm Metab Res** 1989 Dec; 21(12):675–7
Evidence for a dopaminergic involvement in the inhibitory effect of alpha human natriuretic peptide on prolactin in man. Foresta C, et al. **Horm Metab Res** 1989 Nov; 21(11):630–4
Sexual differentiation of mesencephalic neurons in vitro: effects of sex and gonadal hormones. Engele J, et al. **Int J Dev Neurosci** 1989;7(6):603–11
Animal models of parkinsonism using selective neurotoxins: clinical and basic implications. Zigmond MJ, et al. **Int Rev Neurobiol** 1989;31:1–79 (583 ref.)
Effects of dopamine on the chick retinal pigment epithelium. Membrane potentials and light-evoked responses. Gallemore RP, et al. **Invest Ophthalmol Vis Sci** 1990 Jan; 31(1):67–80
Autoradiographic evidence for the localization of high affinity neurotensin binding sites on dopaminergic nerve terminals in the nigrostriatal and mesolimbic pathways in rat brain. Schotte A, et al. **J Chem Neuroanat** 1989 Sep–Oct; 2(5):253–7
Convergence of hippocampal and dopaminergic input onto identified neurons in the nucleus accumbens of the rat. Totterdell S, et al. **J Chem Neuroanat** 1989 Sep–Oct; 2(5):285–98
Beyond the serotonin hypothesis: a role for dopamine in some forms of obsessive compulsive disorder? Goodman WK, et al. **J Clin Psychiatry** 1990 Aug;51 Suppl:36–43; discussion 55–8 (106 ref.)
Intrastriatal grafts derived from fetal striatal primordia: II. Reconstitution of cholinergic and dopaminergic systems. Liu FC, et al. **J Comp Neurol** 1990 May 1;295(1):1–14
The output neurones and the dopaminergic neurones of the substantia nigra receive a GABA-containing input from the globus pallidus in the rat. Smith Y, et al. **J Comp Neurol** 1990 Jun 1;296(1):47–64
Effects of melatonin and a dopamine agonist and antagonist on seasonal changes in voluntary intake, reproductive activity and plasma concentrations of prolactin and tri-iodothyronine in red deer hinds. Milne JA, et al. **J Endocrinol** 1990 May;125(2):241–9
The influence of dopamine-1 receptor blockade on the humoral and renal effects of low-dose atrial natriuretic factor in human hypertensives. Lucarini AR, et al. **J Hypertens Suppl** 1989 Dec;7(6):S230–1
Temporal synergism of neurotransmitter affecting drugs and seasonal reproductive responses of Indian Palm Squirrel, Funambulus pennanti. Chaturvedi CM, et al. **J Neural Transm Gen Sect** 1990;81(1):31–40
The reduction of water intake in rats caused by a low dose of apomorphine is unaltered by alpha-methyl-p-tyrosine: are autoreceptors not involved? Ljungberg T, et al. **J Neural Transm Gen Sect** 1989;78(3):265–9
Some central pharmacological effects of (+)- and (–)-oxaprotiline. Maj J, et al. **J Neural Transm Gen Sect** 1990;80(2):129–43
Mesocortical dopamine neurons: high basal firing frequency predicts tyrosine dependence of dopamine synthesis. Tam SY, et al. **J Neural Transm Gen Sect** 1990;81(2):97–110
Striatal dopamine in motor activation and reward-mediated learning: steps towards a unifying model. Wickens J. **J Neural Transm Gen Sect** 1990;80(1):9–31 (117 ref.)
Effect of some peptides on dopaminergic function in man. Lal S, et al. **J Neural Transm Suppl** 1990;29:173–81
Partial damage to nigrostriatal bundle: compensatory changes and the action of L-dopa. Zigmond MJ, et al. **J Neural Transm Suppl** 1990;29:217–32 (67 ref.)
Chronic treatment of rats with SCH-23390 or raclopride does not affect the concentrations of DARPP-32 or its mRNA in dopamine-innervated brain regions. Grebb JA, et al. **J Neurochem** 1990 Jul;55(1):204–7
Involvement of dopamine neurons in the regulation of beta-adrenergic receptor sensitivity in rat prefrontal cortex. Hervé D, et al. **J Neurochem** 1990 Jun;54(6):1864–9
Toxicity of 1-methyl-4-phenylpyridinium for rat dopaminergic neurons in culture: selectivity and irreversibility. Michel PP, et al. **J Neurochem** 1990 Apr; 54(4):1102–9
Interactions of phencyclidine receptor agonist MK-801 with dopaminergic system: regional studies in the rat. Rao TS, et al. **J Neurochem** 1990 Apr;54(4):1157–62
The synaptic organization of the dopaminergic amacrine cell in the cat retina. Kolb H, et al. **J Neurocytol** 1990 Jun; 19(3):343–66
Scoliosis in rats with experimentally-induced hemiparkinsonism: dependence upon striatal dopamine denervation. Herrera-Marschitz M, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):39–43
Dopamine neurons of the monkey midbrain: contingencies of responses to active touch during self-initiated arm movements. Romo R, et al. **J Neurophysiol** 1990 Mar; 63(3):592–606
Dopamine neurons of the monkey midbrain: contingencies of responses to stimuli eliciting immediate behavioral reactions. Schultz W, et al. **J Neurophysiol** 1990 Mar; 63(3):607–24
Photoreceptor to horizontal cell synaptic transfer in the Xenopus retina: modulation by dopamine ligands and a circuit model for interactions of rod and cone inputs. Witkovsky P, et al. **J Neurophysiol** 1989 Oct;62(4):864–81
Changes in striatal dopamine neurotransmission assessed with microdialysis following recovery from a bilateral 6-OHDA lesion: variation as a function of lesion size. Castañeda E, et al. **J Neurosci** 1990 Jun;10(6):1847–54
Morphology and electrophysiological properties of immunocytochemically identified rat dopamine neurons recorded in vitro. Grace AA, et al. **J Neurosci** 1989 Oct; 9(10):3463–81
Opiate influences on nucleus accumbens neuronal electrophysiology: dopamine and non-dopamine mechanisms. Hakan RL, et al. **J Neurosci** 1989 Oct; 9(10):3538–46
Nondopaminergic prefrontocortical efferent fibers modulate D1 receptor denervation supersensitivity in specific regions of the rat striatum. Herve D, et al. **J Neurosci** 1989 Nov; 9(11):3699–708
Selective and nonselective stimulation of central cholinergic and dopaminergic development in vitro by nerve growth factor, basic fibroblast growth factor, epidermal growth factor, insulin and the insulin-like growth factors I and II. Knusel B, et al. **J Neurosci** 1990 Feb;10(2):558–70
ARPP-21, a cyclic AMP-regulated phosphoprotein enriched in dopamine-innervated brain regions. II. Molecular cloning and nucleotide sequence. Kurihara T, et al. **J Neurosci** 1989 Oct;9(10):3638–44
ARPP-21, a cyclic AMP-regulated phosphoprotein enriched in dopamine-innervated brain regions. I. Amino acid sequence of ARPP-21B from bovine caudate nucleus. Williams KR, et al. **J Neurosci** 1989 Oct;9(10):3631–7
The importance of dopamine in the pathogenesis of experimental prolactinomas. el-Azouzi M, et al. **J Neurosurg** 1990 Feb;72(2):273–81
PET studies of the dopaminergic system. A review. Lenzi GL, et al. **J Nucl Med Allied Sci** 1990 Jan–Mar;34(1):1–9 (39 ref.)
Inhibition of neurotensin-induced miosis by blockade of ocular dopamine pathways. Hernandez DE, et al. **J Ocul Pharmacol** 1990 Spring;6(1):31–6
Influence of dopaminergic and noradrenergic systems on the release of opioid peptides in guinea-pig ileum. Milanés MV, et al. **J Pharm Pharmacol** 1989 Sep;41(9):607–11
Locomotor behaviour of selective dopamine agonists in mice: is endogenous dopamine the only catecholamine involved? Pichler L, et al. **J Pharm Pharmacol** 1989 Oct;41(10):690–3
Regulation of the mesocorticolimbic dopamine system by glutamic acid receptor subtypes. Kalivas PW, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):378–87
Serotonergic afferent regulation of the basic physiology and pharmacological responsiveness of nigrostriatal dopamine neurons. Kelland MD, et al. **J Pharmacol Exp Ther** 1990 May;253(2):803–11
CI-943, a potential antipsychotic agent. III. Evaluation of effects on dopamine neuronal activity. Meltzer LT, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):123–30
Attenuation by dopamine uptake blockers of the inhibitory effects of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine and some of its analogs on NADH-linked metabolism in mouse neostriatal slices. Ofori S, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):258–66
Compensatory activation of substance P biosynthesis by L-dihydroxyphenylalanine in striatonigral neurons of neonatal dopaminergic denervated rats. Sivam SP, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):433–9
Modulation of an electrical synapse between solitary pairs of catfish horizontal cells by dopamine and second messengers. DeVries SH, et al. **J Physiol (Lond)** 1989 Jul; 414:351–75
Neuroleptics and psychic indifference: a review. Healy D. **J R Soc Med** 1989 Oct;82(10):615–9 (58 ref.)
Possible dopaminergic system involvement in LH and PRL responses to naltrexone treatment. Yogev L, et al. **Life Sci** 1989;45(24):2343–9
Binding of a Drosophila POU-domain protein to a sequence element regulating gene expression in specific dopaminergic neurons. Johnson WA, et al. **Nature** 1990 Feb 1;343(6257):467–70
Potentiation of the effects of dopamine in the rabbit isolated splenic artery by 3-isobutyl-1-methylxanthine or forskolin. Clark KL, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Nov;340(5):533–40
Changes of prolactin response to dopamine during the rat estrous cycle. Brandi AM, et al. **Neuroendocrinology** 1990 Apr;51(4):449–54
Functional organization of the catecholaminergic neural systems inhibiting luteinizing hormone secretion in anestrous ewes. Goodman RL. **Neuroendocrinology** 1989 Oct;50(4):406–12
Alterations in prolactin secretion during the 1st postnatal month following perinatal dopaminergic blockade with haloperidol. Iñiguez C, et al. **Neuroendocrinology** 1990 Jun; 51(6):700–4
Activation of tuberoinfundibular but not tuberohypophysial dopaminergic neurons following intracerebroventricular administration of alpha-melanocyte-stimulating hormone. Lindley SE, et al. **Neuroendocrinology** 1990 Apr; 51(4):394–9
Dopamine inhibits the arachidonate and prolactin release stimulated by thyrotropin-releasing hormone through an islet-activating protein-sensitive GTP-binding protein in anterior pituitary cells. Ohmichi M, et al. **Neuroendocrinology** 1990 Jul;52(1):75–81
Corticotropin-releasing factor neurons innervate dopamine neurons in the periventricular hypothalamus of juvenile macaques. Synaptic evidence for a possible companion neurotransmitter. Thind KK, et al. **Neuroendocrinology** 1989 Sep;50(3):351–8
The role of oxytocin-dopamine interactions in cocaine-induced locomotor hyperactivity. Kovàcs GL, et al. **Neuropharmacology** 1990 Apr;29(4):365–8
Efficacy and potency comparisons among aporphine enantiomers: effects on dopamine neurons in substantia nigra of rat. Martin LP, et al. **Neuropharmacology** 1990 Feb;29(2):135–43
Dopaminergic transmission and the sleep-wakefulness continuum in man. Nicholson AN, et al. **Neuropharmacology** 1990 Apr;29(4):411–7
Selective activation of dopaminergic pathways in the mesocortex by compounds that act at the phencyclidine (PCP) binding site: tentative evidence for PCP recognition sites not coupled to N-methyl-D-aspartate (NMDA) receptors. Rao TS, et al. **Neuropharmacology** 1990 Mar; 29(3):225–30
Electrophysiological effects of neurotensin on dopaminergic neurones of the ventral tegmental area of the rat in vitro. Seutin V, et al. **Neuropharmacology** 1989 Sep;28(9):949–54
A D2 dopamine receptor agonist disrupts sensorimotor gating in rats. Implications for dopaminergic abnormalities in schizophrenia. Peng RY, et al. **Neuropsychopharmacology** 1990 Jun;3(3):211–8
Electrophysiological effects of selective sigma-receptor agonists, antagonists, and the selective phencyclidine receptor agonist MK-801 on midbrain dopamine neurons. Steinfels GF, et al. **Neuropsychopharmacology** 1989 Sep; 2(3):201–8
Dopamine, neuroleptics and reinforced behavior. Ettenberg A. **Neurosci Biobehav Rev** 1989 Summer-Fall; 13(2–3):105–11 (98 ref.)
Excitotoxicity of NMDA and kainic acid is modulated by nigrostriatal dopaminergic fibres. Chapman AG, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):256–60
Evidence for a widespread dopaminergic innervation of the human cerebral neocortex. De Keyser J, et al. **Neurosci Lett** 1989 Oct 9;104(3):281–5
Haloperidol suppresses light-induced spinule formation and biphasic responses of horizontal cells in fish (roach) retina. Djamgoz MB, et al. **Neurosci Lett** 1989 Dec 15; 107(1–3):200–4
The effects of monoamine oxidase inhibition and dopamine uptake blockade on MPTP-induced increase of 2-[3H]deoxyglucose uptake in specific mesencephalic catecholaminergic nuclei. Hess A. **Neurosci Lett** 1990 Apr 20;112(1):7–13
[3H]Dihydrotetrabenazine, a new marker for the visualization of dopaminergic denervation in the rat striatum. Masuo Y, et al. **Neurosci Lett** 1990 Jun 22;114(1):45–50
Food intake of rats depleted of dopamine as neonates is impaired by inhibition of catecholamine biosynthesis. Potter BM, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):295–300
Effect of dopamine depletion upon the K(+)-evoked release of CCK from superfused striatal slices. Sierralta J, et al. **Neurosci Lett** 1990 May 4;112(2–3):313–7
A novel role for dopamine: inhibition of muscarinic cholinergic-stimulated phosphoinositide hydrolysis in rat brain cortical membranes. Wallace MA, et al. **Neurosci Lett** 1990 Mar 2;110(1–2):155–61
Indications for a hormonal function of dopamine in the central nervous system of the snail Lymnaea stagnalis. Werkman TR, et al. **Neurosci Lett** 1990 Jan 1; 108(1–2):167–72
Co-localization of adrenergic receptors and vitamin-D-dependent calcium-binding protein (calbindin) in the dopaminergic amacrine cells of the rat retina.

Ishimoto I, et al. **Neurosci Res** 1989 Dec;7(3):257–63

Distribution, projection and dopaminergic regulation of the neurokinin B mRNA–containing neurons of the rat caudate–putamen. Burgunder JM, et al. **Neuroscience** 1989; 32(2):323–35

Lever pressing for food reward and in vivo voltammetry: evidence for increases in extracellular homovanillic acid, the dopamine metabolite, and uric acid in the rat caudate nucleus. Joseph MH, et al. **Neuroscience** 1989;32(1):195–201

A dopaminergic inhibitory postsynaptic potential mediated by an increased potassium conductance. Williams PJ, et al. **Neuroscience** 1989;31(3):673–81

Role of dopamine in the neurotoxicity induced by amphetamines and related designer drugs. Gibb JW, et al. **NIDA Res Monogr** 1989;94:161–78 (25 ref.)

Catecholamines and the initiation of sexual behavior in male rats without sexual experience. Agmo A, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):327–34

Evidence for dopamine involvement in reinforcement obtained using a latent extinction paradigm. Asin KE, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):417–20

The role of dopamine in the effects of pentazocine and tripelennamine. Hudzik TI, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):547–54

Blockade by diazepam of conditioned fear–induced activation of rat mesoprefrontal dopamine neurons. Ida Y, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):477–9

Hyperactivity induced by N–methyl–d–aspartate injections into nucleus accumbens: lack of evidence for mediation by dopaminergic neurons. O'Neill KA, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):739–45

Norepinephrine stimulates behavioral activation in rats following depletion of nucleus accumbens dopamine. Swerdlow NR, et al. **Pharmacol Biochem Behav** 1989 Jul; 33(3):595–9

The effect of prenatal treatment with MPTP or MPP+ on the development of dopamine–mediated behaviors in rats. Weissman EM, et al. **Pharmacol Biochem Behav** 1989 Nov; 34(3):545–51

Postnatal ontogenesis of dopaminergic and serotoninergic systems in rat caudate nucleus. Restani P, et al. **Pharmacol Res** 1990 May–Jun;22(3):343–50

Effects of amperozide, a putative antipsychotic drug, on rat midbrain dopamine neurons recorded in vivo. Grenhoff J, et al. **Pharmacol Toxicol** 1990;66 Suppl 1:29–33

Amperozide—a new putatively antipsychotic drug with a limbic mode of action on dopamine mediated behaviour. Gustafsson B, et al. **Pharmacol Toxicol** 1990;66 Suppl 1:12–7

Behavioral and biochemical changes monitored in two inbred strains of mice during exploration of an unfamiliar environment. Cabib S, et al. **Physiol Behav** 1990 Apr; 47(4):749–53

Extra–hypothalamic dopamine is not involved in the effects of hyperprolactinemia on male copulatory behavior. Doherty PC, et al. **Physiol Behav** 1989 Jun;45(6):1101–5

Nucleus basalis magnocellularis lesions facilitate two–way active avoidance. Dokla CP, et al. **Physiol Behav** 1989 Oct; 46(4):763–5

Alcohol–preferring rats: genetic sensitivity to alcohol–induced stimulation of dopamine metabolism. Fadda F, et al. **Physiol Behav** 1990 Apr;47(4):727–9

Behavioral and neurochemical differences in an inbred strain of rats. Pradhan N, et al. **Physiol Behav** 1990 Apr; 47(4):705–8

Conditioned rotation: a behavioral analysis. Richards JB, et al. **Physiol Behav** 1990 Jun;47(6):1083–7

Abnormal feeding behavior and insulin replacement in STZ–induced diabetic rats. Shimomura Y, et al. **Physiol Behav** 1990 Apr;47(4):731–4

Somatosensory input to dopamine neurones of the monkey midbrain: responses to pain pinch under anaesthesia and to active touch in behavioural context. Romo R, et al. **Prog Brain Res** 1989;80:473–8; discussion 465–6

Behavioral effects of endogenous or exogenous (mu, delta) opioid peptides: relation with DA mesolimbic pathways. Calenco–Choukroun G, et al. **Prog Clin Biol Res** 1990; 328:417–20

Dopamine and male/female differentiation in a hermaphroditic polychaete (Ophryotrocha puerilis). Pfannenstiel HD, et al. **Prog Clin Biol Res** 1990;342:219–25 (14 ref.)

Gamma–type endorphins and brain dopaminergic systems. van Ree JM, et al. **Prog Clin Biol Res** 1990;328:287–90

Intracellular events associated with GnRH and dopamine effects on GTH secretion in tilapia. Yaron Z, et al. **Prog Clin Biol Res** 1990;342:409–14

Hyperactivity of the left striato–pallidal projection. Part I: Lower level theory. Early TS, et al. **Psychiatr Dev** 1989 Summer;7(2):85–108 (112 ref.)

Sensory physiology and catecholamines in schizophrenia and mania. Adler LE, et al. **Psychiatry Res** 1990 Mar; 31(3):297–309

Dopaminergic mechanisms in self–inflicting biting behavior. Goldstein M. **Psychopharmacol Bull** 1989;25(3):349–52 (7 ref.)

Actions of typical and atypical antipsychotics on tuberoinfundibular dopamine neurons. Gudelsky GA, et al. **Psychopharmacol Bull** 1989;25(3):377–82

Changes in locomotion and dopamine neurotransmission following amphetamine, haloperidol, and exposure to novel environmental stimuli. Bardo MT, et al. **Psychopharmacology (Berl)** 1990;101(3):338–43

Dizocilpine (MK–801), ketamine and phencyclidine: low doses affect brain field potentials in the freely moving rat in the same way as activation of dopaminergic transmission. Dimpfel W, et al. **Psychopharmacology (Berl)** 1990; 101(3):317–23

Effects of carbamazepine on dopamine function in rodents. Elphick M. **Psychopharmacology (Berl)** 1989;99(4):532–6

A pharmacological analysis of the eating response induced by 8–OH–DPAT injected into the dorsal raphé nucleus reveals the involvement of a dopaminergic mechanism. Fletcher PJ, et al. **Psychopharmacology (Berl)** 1990; 100(2):188–94

Cocaine produces locomotor stimulation in SS but not LS mice: relationship to dopaminergic function. George FR, et al. **Psychopharmacology (Berl)** 1990;101(1):18–22

Behavioral evidence implicating dopamine in sensorimotor arousal and norepinephrine in the sedative effects of antidepressant drugs. Kokkinidis L, et al. **Psychopharmacology (Berl)** 1990;100(4):542–7

Clinical studies on the mechanism of action of clozapine: the dopamine–serotonin hypothesis of schizophrenia. Meltzer HY. **Psychopharmacology (Berl)** 1989;99 Suppl:S18–27 (98 ref.)

Amphetamine disruption of prepulse inhibition of acoustic startle is reversed by depletion of mesolimbic dopamine. Swerdlow NR, et al. **Psychopharmacology (Berl)** 1990; 100(3):413–6

Functional and pharmacological organization of the retina: dopamine, interplexiform cells, and neuromodulation. Dowling JE. **Res Publ Assoc Res Nerv Ment Dis** 1990; 67:1–18 (44 ref.)

Dopaminergic mechanisms in idiopathic and drug–induced psychoses. Lieberman JA, et al. **Schizophr Bull** 1990; 16(1):97–110 (130 ref.)

Inhibition of striatal dopamine release by the selective D–2 dopamine receptor agonist N–0437 is blocked by quinine. Cass WA, et al. **Synapse** 1990;5(4):336–7

Dye–coupling in the neostriatum of the rat: I. Modulation by dopamine–depleting lesions. Cepeda C, et al. **Synapse** 1989;4(3):229–37

Dopamine agonists at repeated "autoreceptor–selective" doses: effects upon the sensitivity of A10 dopamine autoreceptors. Jeziorski M, et al. **Synapse** 1989;4(4):267–80

Dopamine control of seizure propagation: intranigral dopamine D1 agonist SKF–38393 enhances susceptibility to seizures. Turski WA, et al. **Synapse** 1990;5(2):113–9

G protein mRNA expression in immunohistochemically identified dopaminergic and noradrenergic neurons in the rat brain. Vincent SR, et al. **Synapse** 1990;6(1):23–32

Rod pathways in mammalian retinae. Daw NW, et al. **Trends Neurosci** 1990 Mar;13(3):110–5 (53 ref.)

Role of the mesostriatal dopamine pathway [letter; comment] Strange PG. **Trends Neurosci** 1990 Mar;13(3):93–5 Comment on: Trends Neurosci 1989 Oct;12(10):366–75.

Compensations after lesions of central dopaminergic neurons: some clinical and basic implications. Zigmond MJ, et al. **Trends Neurosci** 1990 Jul;13(7):290–6 (40 ref.)

Neurochemical interactions of cocaine with dopaminergic systems. Galloway MP. **Trends Pharmacol Sci** 1988 Dec; 9(12):451–4

[Renal effects of dopamine] Olsen NV. **Ugeskr Laeger** 1990 Jun 18;152(25):1812–5 (30 ref.) (Eng. Abstr.) **(Dan)**

[The mesencephalic dopaminergic system. Implications for neuroleptic treatment] Beaufils B. **Encephale** 1990 May–Jun;16(3):167–74 (65 ref.) (Eng. Abstr.) **(Fre)**

[Neurotensin, dopamine and mode of action of neuroleptics] Tassin JP. **Encephale** 1989 Sep–Oct;15(5):465–70 (36 ref.) (Eng. Abstr.) **(Fre)**

[The behavior of arterial blood pressure in dynamic and static muscle exercise with respect to atrial natriuretic peptide and neurotransmitters] Hollmann W, et al. **Z Kardiol** 1989; 78 Suppl 7:211–9 (13 ref.) (Eng. Abstr.) **(Ger)**

[Dopamine–glutamate interaction and cholinesterase activity in the corpus striatum of the adult rat] Di Loreto S, et al. **Boll Soc Ital Biol Sper** 1989 Sep;65(9):893–900 (Eng. Abstr.) **(Ita)**

[The role of catecholamines in hypertensive mechanisms of essential hypertension] Iimura O, et al. **Nippon Rinsho** 1989 Sep;47(9):1947–55 **(Jpn)**

[Choreic movements and dopamine—implications to the underlying neural mechanisms involved] Kanazawa I. **Rinsho Shinkeigaku** 1989 Dec;29(12):1519–21 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Central dopaminergic mechanisms and the effect of ethyl alcohol] Kostowski W, et al. **Psychiatr Pol** 1989 May–Jun; 23(3):200–8 (40 ref.) **(Pol)**

[Dopaminergic mechanisms in regulating the release of renin and aldosterone in arterial hypertension] Bicho MP. **Rev Port Cardiol** 1988 Mar–Apr;7(2):215–20 (62 ref.) (Eng. Abstr.) **(Por)**

[Hypothyroidism and hyperprolactinemia] Tkachenko NN, et al. **Akush Ginekol (Mosk)** 1989 Oct;(10):40–3 (Eng. Abstr.) **(Rus)**

[The role of dopamine in regulating the cerebral circulation in extreme conditions] Pchelintseva TR, et al. **Fiziol Zh SSSR** 1989 Nov;75(11):1596–601 (Eng. Abstr.) **(Rus)**

[Effect of cerebral noradrenaline and dopamine depletion on spontaneous and amphetamine–stimulated motor activity in rats] Romero Vecchione E, et al. **Acta Cient Venez** 1989; 40(2):113–8 (Eng. Abstr.) **(Spa)**

[The nucleus accumbens:is it an exclusive component of the dopaminergic system of the basal ganglia?] Herrera–Marschitz M, et al. **Neurologia** 1987 Mar–Apr; 2(2):47–9 **(Spa)**

SECRETION

Protein kinase C and dopamine release—III. Effect of dopamine depleting drugs. Giambalvo CT. **Biochem Pharmacol** 1989 Dec 15;38(24):4445–54

N–methyl–D–aspartate stimulates the release of dopamine from rat hippocampal slices. Schröder H, et al. **Biomed Biochim Acta** 1990;49(4):281–4

Local enkephalins tonically modulate dopamine release in the striatum: a microdialysis study. Dourmap N, et al. **Brain Res** 1990 Jul 30;524(1):153–5

Ceruletide, a cholecystokinin–related peptide, attenuates haloperidol–induced increase in dopamine release from the rat striatum: an in vivo microdialysis study. Kihara T, et al. **Brain Res** 1990 Jun 11;519(1–2):44–9

Effect of L–glutamate on the release of striatal dopamine: in vivo dialysis and electrochemical studies. Moghaddam B, et al. **Brain Res** 1990 Jun 4;518(1–2):55–60

Simultaneous measurement of acetylcholine and dopamine releases in rat striatum under freely moving conditions with a brain dialysis method. Ajima A, et al. **J Chromatogr** 1989 Sep 29;494:297–302

Release of endogenous dopamine by stimulation of 5–hydroxytryptamine3 receptors in rat striatum. Blandina P, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):803–9

Phorbol esters and D2–dopamine receptors. Cubeddu LX, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):687–93

Neurotensin–induced dopamine release in vivo and in vitro from substantia nigra and nucleus caudate. Faggin BM, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):817–25

Restricted exposure of mice to primer pheromones coincident with prolactin surges blocks pregnancy by changing hypothalamic dopamine release. Rosser AE, et al. **J Reprod Fertil** 1989 Nov;87(2):553–9

Methylxanthine effects on caudate dopamine release as measured by in vivo electrochemistry. Morgan ME, et al. **Life Sci** 1989;45(21):2025–39

Na(+)–Ca2+ exchange activity in central nerve endings. II. Relationship between pharmacological blockade by amiloride analogues and dopamine release from tuberoinfundibular hypothalamic neurons. Taglialatela M, et al. **Mol Pharmacol** 1990 Sep;38(3):393–400

Ischemic flow threshold for striatal dopamine release in rats. Yao H, et al. **Neurochem Res** 1990 May;15(5):547–9

Neurochemical aspects of morphine tolerance in the freely moving and behaving animal: voltammetric studies. Broderick PA, et al. **Prog Clin Biol Res** 1990;328:501–6

Regional differences in opioid receptor–mediated inhibition of dopamine and acetylcholine release in the rat brain. Heijna MH, et al. **Prog Clin Biol Res** 1990;328:299–302

Grafts of fetal dopamine neurons survive and improve motor function in Parkinson's disease [see comments] Lindvall O, et al. **Science** 1990 Feb 2;247(4942):574–7 Comment in: Science 1990 Feb 2;247(4942):529.

THERAPEUTIC USE

Intraventricular infusion of Dopamine in Parkinson's disease. Horne MK, et al. **Ann Neurol** 1989 Dec;26(6):792–4

Potential benefits of dopamine striatal implant [letter; comment] Lang AE. **Ann Neurol** 1990 Jan;27(1):109–10 Comment on: Ann Neurol 1989 Apr;25(4):351–6.

Acute renal failure: prevention and treatment. Campise M. **Arch Ital Urol Nefrol Androl** 1990 Mar;62(1):25–9 (41 ref.)

Overprescribing [letter] Beevers DG. **BMJ** 1989 Nov 18; 299(6710):1284

Pharmacologic strategies for treating respiratory failure. Aubier M. **Chest** 1990 Mar;97(3 Suppl):98S–103S (22 ref.)

Hemodynamic changes during acute pancreatitis and the dopamine therapy. Shen J, et al. **Chin Med J [Engl]** 1990 Mar;103(3):201–7

Use of survivors' cardiorespiratory values as therapeutic goals in septic shock. Edwards JD, et al. **Crit Care Med** 1989 Nov;17(11):1098–103

Dopamine and dopamine receptor agonists in cardiovascular therapy. Murphy MB, et al. **Crit Care Med** 1990 Jan;18(1 Pt 2):S14–8 (30 ref.)

Comparison of effects of naloxone and catecholamines on acid–base balance in canine hemorrhagic shock. Reghunandanan R, et al. **Indian J Exp Biol** 1990 Apr; 28(4):333–6

Cardiac index and oxygen consumption during weaning in patients who need inotropic support [letter] Fernández–Mondéjar E, et al. **Intensive Care Med** 1990; 16(2):137–8

Comparison of epinephrine and dopamine during cardiopulmonary resuscitation. Lindner KH, et al. **Intensive Care Med** 1989;15(7):432–8

The role of dopamine receptors in the treatment of congestive heart failure. Goldberg LI. **J Cardiovasc Pharmacol** 1989; 14 Suppl 5:S19–27 (84 ref.)

Renal and hemodynamic effects of dopamine in infants following cardiac surgery. Outwater KM, et al. **J Clin Anesth** 1990 Jul–Aug;2(4):253–7

Intrathecal morphine analgesia and low–dose dopamine for oliguria in severe maternal pulmonary hypertension. A case report. Leduc L, et al. **J Reprod Med** 1990 Jul;35(7):727–9

Effect of combined dopamine and bunazosin on the ischemic heart after occlusion of the coronary artery. Katoh T, et

al. **Jpn J Surg** 1990 Jul;20(4):429–36

Acute cyclosporine renal dysfunction reversed by dopamine infusion in healthy subjects. Conte G, et al. **Kidney Int** 1989 Dec;36(6):1086–92

A circulatory model for combined nitroprusside–dopamine therapy in acute heart failure. Yu C, et al. **Med Prog Technol** 1990 May;16(1–2):77–88

Dopamine and dobutamine in pediatric therapy. Bhatt-Mehta V, et al. **Pharmacotherapy** 1989;9(5):303–14 (70 ref.)

Observation on the effect of sodium nitroprusside and dopamine on acute myocardial infarction during hospitalization. Liu FQ, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(4):200–4

Renal functional response to dopamine during and after arteriography in patients with chronic renal insufficiency. Hans B, et al. **Radiology** 1990 Sep;176(3):651–4

[Hemodynamic effects of isoprenaline, dopamine, atrial and ventricular pacing during the early period after correction of tetralogy of Fallot] Wang XM, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Jun; 17(3):140–2, 189–90 (Eng. Abstr.) **(Chi)**

[Encephalofluctuographic analysis of parkinsonism] Mei L. **Chung Hua I Hsueh Tsa Chih** 1990 Feb;70(2):105–7 **(Chi)**

[Effects of infusions of different doses of dopamine in dilated cardiomyopathy. Observations during and after treatment with beta-blockers] Modena MG, et al. **Cardiologia** 1989 Jun;34(6):531–6 (Eng. Abstr.) **(Ita)**

[The effects of dopamine and/or dibutyryl cyclic AMP on renal dysfunction induced by IPPV with PEEP in dogs] Yamada S, et al. **Masui** 1990 Jun;39(6):708–14 (Eng. Abstr.) **(Jpn)**

TOXICITY

Schizophrenic–like sensorimotor gating abnormalities in rats following dopamine infusion into the nucleus accumbens. Swerdlow NR, et al. **Psychopharmacology (Berl)** 1990; 101(3):414–20

Comparative cardiovascular toxicity in dogs given inotropic agents by continuous intravenous infusion. Sandusky GE, et al. **Toxicol Pathol** 1990;18(2):268–78

URINE

Regulation of urinary dopamine by protein and NaCl. A model of extraneuronal amine formation in kidney. Young JB. **Am J Hypertens** 1990 Jun;3(6 Pt 2):14S–17S (16 ref.)

Frusemide, ACE inhibition, renal dopamine and prostaglandins: acute interactions in normal man. MacDonald TM, et al. **Br J Clin Pharmacol** 1989 Dec; 28(6):683–94

Relationship between urinary excretion of sodium and dopamine in type 1 diabetic patients with an without microalbuminuria. Patrick AW, et al. **Diabetic Med** 1990 Jan;7(1):53–6

Suppression of norepinephrine secretion by dopamine in children with neuroblastoma: evidence for precursor inhibition in catecholamine pathway. Sato T, et al. **Endocrinol Jpn** 1989 Aug;36(4):595–603

Ethnic differences in the renal sodium–dopamine relationship: a possible explanation for regional variation in the prevalence of hypertension? Critchley JA, et al. **Eur J Clin Pharmacol** 1989;37(6):559–62

Ethnic differences in the renal dopamine response to an oral salt load. Critchley JA, et al. **J Hum Hypertens** 1990 Apr; 4(2):91–3

Dietary sodium–induced changes in renal noradrenergic and dopaminergic responses in rats. Jadhav AL, et al. **J Hum Hypertens** 1990 Apr;4(2):163–4

MAO and L–dopa treatment of Parkinson's disease. Tyce GM, et al. **J Neural Transm Suppl** 1990;29:233–9

Circadian variations of urinary dopamine, norepinephrine, epinephrine and sodium in normotensive and hypertensive subjects. Kawano Y, et al. **Nephron** 1990;55(3):277–82

[Sequential study of the plasmatic atrial natriuretic factor and the urinary excretion of an ouabain displacing factor and of dopamine in normotensive pregnant women before and after labor] el Esper N, et al. **Arch Mal Coeur** 1989 Jul;82(7):1057–61 (Eng. Abstr.) **(Fre)**

[Does dopamine play a role in renal anomaly in sodium excretion, a marker for hereditary predisposition to arterial hypertension?] Krzesinski JM, et al. **Arch Mal Coeur** 1989 Jul;82(7):1245–8 (Eng. Abstr.) **(Fre)**

DOPAMINE AGONISTS see DOPAMINERGIC AGENTS

DOPAMINE BETA-HYDROXYLASE

ANALYSIS

Sequence similarity between dopamine beta–hydroxylase and peptide alpha–amidating enzyme: evidence for a conserved catalytic domain. Southan C, et al. **FEBS Lett** 1989 Sep 11;255(1):116–20

Association of dopaminergic fibers with corticotropin releasing hormone (CRH)–synthesizing neurons in the paraventricular nucleus of the rat hypothalamus. Liposits Z, et al. **Histochemistry** 1989;93(2):119–27

Distribution of dopamine–immunoreactive neuronal perikarya and fibres in the brain of a teleost, Gasterosteus aculeatus L. comparison with tyrosine hydroxylase– and dopamine–beta–hydroxylase–immunoreactive neurons. Ekström P, et al. **J Chem Neuroanat** 1990 Jul–Aug; 3(4):233–60

The response of noradrenergic axons to systemically administered DSP–4 in the rat: an immunohistochemical study using antibodies to noradrenaline and dopamine–beta–hydroxylase. Fritschy JM, et al. **J Chem Neuroanat** 1990 Jul–Aug;3(4):309–21

The distribution of dopamine–beta–hydroxylase, neuropeptide Y and galanin in locus coeruleus neurons. Moore RY, et al. **J Chem Neuroanat** 1989 Mar–Apr; 2(2):95–106

The organization of chemically–identified neural systems in monkey prefrontal cortex: afferent systems. Lewis DA. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):371–7

Colocalization of peptides and a catecholamine–synthesizing enzyme in intramural neurones of the newborn guinea–pig urinary bladder in culture. James S, et al. **Regul Pept** 1990 Apr 24;28(2):177–88

ANTAGONISTS & INHIBITORS

Inactivation of dopamine beta–hydroxylase by p–cresol: evidence for a second, minor site of covalent modification at tyrosine 357. Southan C, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):256–8

Inhibition of dopamine beta–hydroxylase by bidentate chelating agents. Townes S, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):240–7

Dopamine beta–hydroxylase inhibition reveals a selective influence of endotoxin on catecholamine content of rat tissues. Arnold J, et al. **Circ Shock** 1990 Aug;31(4):387–94

Use of isotope effects to characterize intermediates in mechanism–based inactivation of dopamine beta–monooxygenase by beta–chlorophenethylamine. Bossard MJ, et al. **J Biol Chem** 1990 Apr 5;265(10):5640–7

1–(substituted–benzyl)imidazole–2(3H)–thione inhibitors of dopamine beta–hydroxylase. Burke BJ, et al. **J Med Chem** 1990 Jan;33(1):274–81

Some benzyl–substituted imidazoles, triazoles, tetrazoles, pyridinethiones, and structural relatives as multisubstrate inhibitors of dopamine beta–hydroxylase. 4. Structure–activity relationships at the copper binding site. Kruse LI, et al. **J Med Chem** 1990 Feb;33(2):781–9

1–(Thienylalkyl)imidazole–2(3H)–thiones as potent competitive inhibitors of dopamine beta–hydroxylase. McCarthy JR, et al. **J Med Chem** 1990 Jul;33(7):1866–73

[Perspectives in the treatment of arterial hypertension: interventions at the dopaminergic system level] Soares–da–Silva P. **Rev Port Cardiol** 1988 Mar–Apr; 7(2):191–210 (208 ref.) (Eng. Abstr.) **(Por)**

BIOSYNTHESIS

Synthesis of chromogranin A, dopamine beta–hydroxylase, and chromaffin vesicles. Corcoran JJ, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):C161–8

Differential effect of membrane depolarization on levels of tyrosine hydroxylase and dopamine beta–hydroxylase mRNAs in PC12 pheochromocytoma cells. Kilbourne EJ, et al. **Brain Res Mol Brain Res** 1990 Jul;8(2):121–7

BLOOD

Serum dopamine–beta–hydroxylase activity in psychotic and nonpsychotic major depression: the importance of distinguishing between unipolar and bipolar disorder [letter] Rihmer Z, et al. **Acta Psychiatr Scand** 1990 Jul; 82(1):93–4

Serum dopamine–beta–hydroxylase activity in clinical subtypes of depression. Sapru MK, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):474–8

Plasma dopamine–beta–hydroxylase in familial and sporadic paranoid schizophrenia. Markianos M, et al. **Biol Psychiatry** 1990 May 15;27(10):1176–8

Plasma dopamine–beta–hydroxylase and preschool behavior in children with conduct disorder. Rogeness GA, et al. **Child Psychiatry Hum Dev** 1989 Winter;20(2):149–56

Plasma norepinephrine kinetics, dopamine–beta–hydroxylase, and chromogranin–A, in hypothyroid patients before and following replacement therapy. Polikar R, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):277–81

Norepinephrine clearance, chromogranin A and dopamine beta hydroxylase in renal failure. Ziegler MG, et al. **Kidney Int** 1990 May;37(5):1357–62

Dopamine–beta–hydroxylase activity in familial Mediterranean fever [letter] Ben–Chetrit E, et al. **Lancet** 1990 Jan 20;335(8682):176

Dopamine–beta–hydroxylase activity in serum of patients with hepatic damage. Rabinowitz R, et al. **Prog Neuropsychopharmacol** 1979;3(5–6):551–3

[The effect of one–time and repeated starvation on dopamine beta–hydroxylase serum activity in rats of various ages] Koudelová J, et al. **Sb Lek** 1990 Mar;92(2–3):45–9 (Eng. Abstr.) **(Cze)**

[Clinical significance of serum dopamine–beta hydroxylase analysis in endocrine tests of the adrenal medulla and sympathetic nervous system] Morii N, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:1174–7 **(Jpn)**

[Dopamine beta–hydroxylase activity after subarachnoid hemorrhage] Markiewicz P. **Pol Tyg Lek** 1989 Jan 30; 44(5):109–11 (Eng. Abstr.) **(Pol)**

CEREBROSPINAL FLUID

Developmental change of dopamine beta–hydroxylase activity in cerebrospinal fluid of epileptic and non–epileptic children. Suzuki H, et al. **J Neural Transm Gen Sect** 1990; 80(3):225–30

DEFICIENCY

Reflex control of sympathetic nerve activity in dopamine beta–hydroxylase deficiency. Rea RF, et al. **Hypertension** 1990 Jan;15(1):107–12

D,L–threo–3, 4–DOPS enhances rapid eye movement sleep in patients with congenital dopamine beta–hydroxylase deficiency. Tulen JH, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):73–4

Sleep patterns in congenital dopamine beta–hydroxylase deficiency. Tulen JH, et al. **J Neurol** 1990 Apr; 237(2):98–102

Dopamine–beta–hydroxylase deficiency in humans. Biaggioni I, et al. **Neurology** 1990 Feb;40(2):370–3

GENETICS

Structure of bovine adrenal dopamine beta–monooxygenase, as deduced from cDNA and protein sequencing: evidence that the membrane–bound form of the enzyme is anchored by an uncleaved signal peptide. Taljanidisz J, et al. **Biochemistry** 1989 Dec 26;28(26):10054–61

Bovine dopamine beta–hydroxylase cDNA. Complete coding sequence and expression in mammalian cells with vaccinia virus vector. Lewis EJ, et al. **J Biol Chem** 1990 Jan 15; 265(2):1021–8

Primary amino acid sequence of bovine dopamine beta–hydroxylase. Robertson JG, et al. **J Biol Chem** 1990 Jan 15;265(2):1029–35

Molecular cloning, structure, and expression of dopamine–beta–hydroxylase from bovine adrenal medulla. Wu HJ, et al. **J Neurochem** 1990 Jul;55(1):97–105

Rat dopamine beta–hydroxylase: molecular cloning and characterization of the cDNA and regulation of the mRNA by reserpine. McMahon A, et al. **J Neurosci Res** 1990 Mar; 25(3):395–404

Subunit characterization and primary structure of bovine adrenal medullary dopamine beta–hydroxylase. Wong DL, et al. **Neuropsychopharmacology** 1990 Apr;3(2):115–28

RFLP for human DBH (dopamine beta–hydroxylase). Schuback DE, et al. **Nucleic Acids Res** 1990 Jan 25; 18(2):387

ISOLATION & PURIFICATION

Deglycosylated membranous and soluble dopamine beta–hydroxylase have identical apparent molecular weights. Oyarce AM, et al. **J Mol Neurosci** 1989;1(3):171–5

[Relation between the membrane and soluble forms of dopamine beta–monooxygenase] Markosian KA, et al. **Biokhimiia** 1990 Jan;55(1):147–54 (Eng. Abstr.) **(Rus)**

METABOLISM

Stepwise oligogenic segregation and linkage analysis illustrated with dopamine–beta–hydroxylase activity. Wilson AF, et al. **Am J Med Genet** 1990 Mar;35(3):425–32

Endoglycosidase H susceptibility of secreted and intracellular forms of dopamine beta–hydroxylase. Sabban EL, et al. **Biochem Int** 1989 Oct;19(4):769–75

Isomer specific kinetics of dopamine beta–hydroxylase and arylsulfatase towards catecholamine sulfates. Strobel G, et al. **Biochem Int** 1990;20(2):343–51

Distribution of catecholamine–synthesizing enzymes in goldfish brains: presumptive dopamine and norepinephrine neuronal organization. Hornby PJ, et al. **Brain Behav Evol** 1990;35(1):49–64

Induction of the vesicular monoamine transporter by elevated potassium concentration in cultures of rat sympathetic neurons. Desnos C, et al. **Brain Res Dev Brain Res** 1990 Mar 1;52(1–2):161–6

A defective beta–hydroxylation of dopamine may precede the full development of hypertension in spontaneously hypertensive rats. Kuchel O, et al. **Can J Cardiol** 1989 Sep; 5(6):327–31

Differences in dopamine beta–hydroxylase immunoreactivity between the brains of genetically epilepsy–prone and Sprague–Dawley rats. Lauterborn JC, et al. **Epilepsy Res** 1989 Nov–Dec;4(3):161–76

Vasoactive intestinal peptide distribution and colocalization with dopamine–beta–hydroxylase in sympathetic chain ganglia of pig. Hill EL, et al. **J Auton Nerv Syst** 1989 Aug; 27(3):229–39

Characterization of a carbon monoxide complex of reduced dopamine beta–hydroxylase. Evidence for inequivalence of the Cu(I) centers. Blackburn NJ, et al. **J Biol Chem** 1990 Sep 15;265(26):15383–6

Active site labeling of dopamine beta–hydroxylase by two mechanism–based inhibitors: 6–hydroxybenzofuran and phenylhydrazine. Farrington GK, et al. **J Biol Chem** 1990 Jan 15;265(2):1036–40

Spectral studies of bovine dopamine beta–hydroxylase. Absence of covalently bound pyrroloquinoline quinone. Robertson JG, et al. **J Biol Chem** 1989 Nov 25; 264(33):19916–21

New insights into the reptilian catecholaminergic systems as revealed by antibodies against the neurotransmitters and their synthetic enzymes. Smeets WJ, et al.

J Chem Neuroanat 1990 Jan–Feb;3(1):25–43
Distribution of locus coeruleus axons within the rat brainstem demonstrated by Phaseolus vulgaris leucoagglutinin anterograde tracing in combination with dopamine–beta–hydroxylase immunofluorescence. Fritschy JM, et al. **J Comp Neurol** 1990 Mar 22;293(4):616–31
Demonstration of two separate descending noradrenergic pathways to the rat spinal cord: evidence for an intragriseal trajectory of locus coeruleus axons in the superficial layers of the dorsal horn. Fritschy JM, et al. **J Comp Neurol** 1990 Jan 22;291(4):553–82
Organization and actions of the noradrenergic input to the hamster's superior colliculus. Mooney RD, et al. **J Comp Neurol** 1990 Feb 8;292(2):214–30
Catecholaminergic systems in the brain of a gymnotiform teleost fish: an immunohistochemical study. Sas E, et al. **J Comp Neurol** 1990 Feb 1;292(1):127–62
Catecholamine–containing neurons in the sheep brainstem and diencephalon: immunohistochemical study with tyrosine hydroxylase (TH) and dopamine–beta–hydroxylase (DBH) antibodies. Tillet Y, et al. **J Comp Neurol** 1989 Dec 1;290(1):69–104
Catecholamine–synthesizing enzymes and chromogranin proteins in drug–induced proliferative lesions of the rat adrenal medulla. Tischler AS, et al. **Lab Invest** 1990 Jul; 63(1):44–51

PHYSIOLOGY

[Dopamine beta–hydroxylase in disorders of blood pressure regulation] Wocial B, et al. **Kardiol Pol** 1989;32 Suppl 1:79–86 **(Pol)**

DOPAMINE RECEPTOR AGONISTS see **DOPAMINERGIC AGENTS**

DOPAMINE RECEPTORS see **RECEPTORS, DOPAMINE**

DOPAMINERGIC AGENTS

(R)– and (S)–5–hydroxy–2–(dipropylamino)tetralin (5–OH DPAT): assessment of optical purities and dopaminergic activities. Karlsson A, et al. **Chirality** 1990;2(2):90–5
Effect of CV 205–502 in hyperprolactinaemic patients intolerant of bromocriptine. Newman CB, et al. **Clin Endocrinol (Oxf)** 1989 Oct;31(4):391–400
SK&F 89124, a potent and selective agonist at prejunctional dopamine receptors. Hieble JP, et al. **Fundam Clin Pharmacol** 1989;3(6):621–42
Production of 3–N–[11C]methylspiperone with high specific activity and high radiochemical purity for PET studies: suppression of its radiolysis. Suzuki K, et al. **Int J Rad Appl Instrum [A]** 1990;41(6):593–9
Inhibition of aldosterone secretion by dopamine, ibopamine, and dihydroergotoxine in patients with congestive heart failure. Missale C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S72–6
Synthesis and dopamine agonist properties of (+–)–trans–3,4,4a,10b–tetrahydro–4–propyl–2H,5H–[1]benzopyrano [4,3–b]–1,4–oxazin–9–ol and its enantiomers. DeWald HA, et al. **J Med Chem** 1990 Jan; 33(1):445–50
4–(1,2,5,6–Tetrahydro–1–alkyl–3–pyridinyl)–2–thiazolamines: a novel class of compounds with central dopamine agonist properties. Jaen JC, et al. **J Med Chem** 1990 Jan;33(1):311–7
Conformational analysis and structure–activity relationships of selective dopamine D–1 receptor agonists and antagonists of the benzazepine series. Pettersson I, et al. **J Med Chem** 1990 Aug;33(8):2197–204
(+)–PHNO: a new anti–parkinsonian agent which does not induce chorea in MPTP–treated squirrel monkeys [letter] Rupniak NM, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):622–3
New putative selective agonists at the D–1 dopamine receptor: behavioural and neurochemical comparison of CY 208–243 with SK&F 101384 and SK&F 103243. Murray AM, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):105–10

ADMINISTRATION & DOSAGE

Nasogastric and intravenous infusions of (+)–4–propyl–9–hydroxynaphthoxazine (PHNO) in Parkinson's disease. Coleman RJ, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):102–5
Ropinirole without levodopa in Parkinson's disease [letter] Vidailhet MJ, et al. **Lancet** 1990 Aug 4;336(8710):316–7
New strategies in dopaminergic therapy of Parkinson's disease: the use of a controlled–release formulation. Duvoisin RC. **Neurology** 1989 Nov;39(11 Suppl 2):4–6 (22 ref.)
The effects of selective dopamine D1 or D2 receptor antagonists on the establishment of agonist–induced place conditioning in rats. Hoffman DC, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):273–9
[Continuous dopaminergic stimulation in Parkinson disease] Obeso JA, et al. **Neurologia** 1987 Sep–Oct;2(5):227–34 (41 ref.) **(Spa)**

ADVERSE EFFECTS

Hypersexuality with antiparkinsonian therapy. Uitti RJ, et al. **Clin Neuropharmacol** 1989 Oct;12(5):375–83
A hypothesis on the pathophysiological mechanisms that underlie levodopa– or dopamine agonist–induced dyskinesia in Parkinson's disease: implications for future strategies in treatment. Crossman AR. **Mov Disord** 1990; 5(2):100–8 (61 ref.)
Clozapine in the treatment of parkinsonian patients with dopaminomimetic psychosis. Wolters EC, et al. **Neurology** 1990 May;40(5):832–4
Levodopa–induced dyskinesias in parkinsonian monkeys: relationship to extent of nigrostriatal damage. Schneider JS. **Pharmacol Biochem Behav** 1989 Sep;34(1):193–6

ANALYSIS

Reversed–phase liquid chromatographic method with amperometric detection for the determination of the dopamine agonist 2–(N–propyl–N–2–thienylethylamino)–5–hydroxytetralin (N–0437) in human plasma and urine. Swart PJ, et al. **J Chromatogr** 1990 Jun 29;528(2):464–72

ANTAGONISTS & INHIBITORS

The alpha 2–adrenoceptor antagonists idazoxan and yohimbine can unmask the postsynaptic dopamine agonist effects of B–HT 920. Meltzer LT, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):105–7

BLOOD

Quantitation of selective dopaminergic drugs in plasma by gas chromatography–mass spectrometry following solid–phase extraction. Kinter M, et al. **J Chromatogr** 1989 Nov 10;496(1):201–8
Pharmacokinetic data for ropinirole [letter] Boothman BR, et al. **Lancet** 1990 Sep 29;336(8718):814

CHEMICAL SYNTHESIS

Syntheses of [123I]–, [125I]– and unlabelled (S)–3–iodo–5,6–dimethoxy–N–[(1–ethyl–2–pyrrolidinyl) methyl]salicylamide (NCQ 298), selective ligands for the study of dopamine D–2 receptors. Högberg T, et al. **Acta Pharm Nord** 1990;2(1):53–60
trans–10,11–dihydroxy–5,6,6a,7,8,12b–hexahydrobenzo[a]phenanthridine: a highly potent selective dopamine D1 full agonist. Brewster WK, et al. **J Med Chem** 1990 Jun;33(6):1756–64
Synthesis and dopamine receptor affinities of 2–(4–fluoro–3–hydroxyphenyl)ethylamine and N–substituted derivatives. Claudi F, et al. **J Med Chem** 1990 Sep;33(9):2408–12
Synthesis and dopamine receptor affinities of enantiomers of 2–substituted apomorphines and their N–n–propyl analogues. Gao YG, et al. **J Med Chem** 1990 Jun; 33(6):1800–5
Substituted 5–amino–4,5,6,7–tetrahydroindazoles as partial ergoline structures with dopaminergic activity. McQuaid LA, et al. **J Med Chem** 1989 Oct;32(10):2388–96

METABOLISM

Dopamine receptor agonists: selectivity and dopamine D1 receptor efficacy. Andersen PH, et al. **Eur J Pharmacol** 1990 Jun 12;188(6):335–47
BHT–920 and LY–171555 (quinpirole) have similar affinities for striatal D–2 dopamine receptors, and similar affinities for striatal D–1 dopamine receptors. Ferré S, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):303–5
In vivo binding of spiperone and N–methylspiperone to dopaminergic and serotonergic sites in the rat brain: multiple modeling and implications for PET scanning. Swart JA, et al. **J Cereb Blood Flow Metab** 1990 May; 10(3):297–306
Resolved 6,7,8,9–tetrahydro–N,N–dimethyl–3H–benz[e]indol–8–amine: central dopamine and serotonin receptor stimulating properties. Wikström H, et al. **J Med Chem** 1989 Oct; 32(10):2273–6
Identification of fenoldopam prodrugs with prolonged renal vasodilator activity. Brooks DP, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):1084–9
Kinetic properties of the in vivo accumulation of 3H–(–)–N–n–propylnorapomorphine in mouse brain. Ross SB, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Jul; 340(1):13–20
The metabolic fate of the dopamine agonist 2–(N–propyl–N–2–thienylethylamino)–5–hydroxytetralin in rats after intravenous and oral administration. II. Isolation and identification of metabolites. Gerding TK, et al. **Xenobiotica** 1990 May;20(5):525–36

PHARMACOKINETICS

Ocular and systemic disposition of the dopamine agonist N–0437 in monkeys after ocular administration. Gerding TK, et al. **Exp Eye Res** 1990 Jul;51(1):11–4
Improvement of the oral bioavailability of the selective dopamine agonist N–0437 in rats: the in vitro and in vivo activity of eight ester prodrugs. den Daas I, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):186–91
A retrospective analysis of fenoldopam renal excretion in 65 subjects: evidence for possible intrarenal formation of fenoldopam from its metabolites. Ziemniak JA, et al. **Pharm Res** 1989 Aug;6(8):702–5
The metabolic fate of the dopamine agonist 2–(N–propyl–N–2–thienylethylamino)–5–hydroxytetralin in rats after intravenous and oral administration. I. Disposition and metabolic profiling. Gerding TK, et al. **Xenobiotica** 1990 May;20(5):515–24

PHARMACOLOGY

The stimulated C–kinase activity in estradiol–treated rat pituitaries is reduced by chronic treatment with the dopamine agonist CV 205–502. Birman P, et al. **Acta Endocrinol (Copenh)** 1989 Oct;121(4):489–94
Postpartum return of pituitary and ovarian activity during lactation inhibition with the new dopamine agonist CV 205–502 and during normal lactation. Kremer JA, et al. **Acta Endocrinol (Copenh)** 1990 Jun;122(6):759–65
A novel, fully automated rotometer for the study of turning behavior. Comparison of results under different experimental conditions. D'Anna L, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):255–68
Effects of fenoldopam on cecal blood flow and mechanical activity in horses. Clark ES, et al. **Am J Vet Res** 1989 Nov;50(11):1926–30
Effects of the novel D2–dopaminergic agonist ropinirol on supine resting and stimulated circulatory and neuroendocrine variables in healthy volunteers. de Mey C, et al. **Arzneimittelforschung** 1990 Jan;40(1):7–13
Nigral D1 and striatal D2 receptors mediate the behavioral effects of dopamine agonists. LaHoste GJ, et al. **Behav Brain Res** 1990 May 28;38(3):233–42
Evaluation of the interaction between D1 and D2 receptors in a drug discrimination paradigm. Williams JE, et al. **Behav Neural Biol** 1990 May;53(3):378–92
Protein kinase C and dopamine release—III. Effect of dopamine depleting drugs. Giambalvo CT. **Biochem Pharmacol** 1989 Dec 15;38(24):4445–54
Further evidence against the coupling of dopamine receptors to phosphoinositide hydrolysis in rat striatum. Rubinstein JE, et al. **Biochem Pharmacol** 1990 Jun 15;39(12):1965–70
A dose rising study of the safety and effects on serum prolactin of SK&F 101468, a novel dopamine D2–receptor agonist. Acton G, et al. **Br J Clin Pharmacol** 1989 Oct; 28(4):435–41
Lack of effect of lithium on the renal response to DA1–dopamine receptor stimulation by fenoldopam in normal man. Girbes AR, et al. **Br J Clin Pharmacol** 1990 Apr;29(4):413–5
FPL 63012AR: a potent D1–receptor agonist. Smith GW, et al. **Br J Pharmacol** 1990 Jun;100(2):295–300
Regulation of striatonigral prodynorphin peptides by dopaminergic agents. Trujillo KA, et al. **Brain Res** 1990 Jun 4;518(1–2):244–56
Effect of dopamine and a dopamine D–1 receptor agonist on pulsatile thyrotrophin secretion in normal women. Boesgaard S, et al. **Clin Endocrinol (Oxf)** 1990 Apr; 32(4):423–31
Effect of fenoldopam, a dopamine D–1 receptor agonist, on pituitary, gonadal and thyroid hormone secretion. Boesgaard S, et al. **Clin Endocrinol (Oxf)** 1989 Mar; 30(3):231–9
Interaction of amineptine with agents modifying dopaminergic transmission. Chagraoui A, et al. **Clin Neuropharmacol** 1989;12 Suppl 2:S19–31
Interaction study of fenoldopam—digoxin in congestive heart failure. Strocchi E, et al. **Eur J Clin Pharmacol** 1989; 37(4):395–7
Prejunctional adrenoceptor activity of N–0437: a relatively selective DA2 dopamine receptor agonist. Crosson CE, et al. **Eur J Pharmacol** 1990 Mar 27;178(3):351–5
Dopamine uptake by the human platelet: effects of dopamine receptor agonists. Dean B, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):165–9
In vivo modulation of striatal phosphoproteins by dopaminergic agents. Di Luca M, et al. **Eur J Pharmacol** 1989 Oct 17;172(4–5):321–8
Autonomic and haemodynamic responses to SK & F 101468 (ropinirole), a DA2 agonist, in anaesthetised cats. Eden RJ, et al. **Eur J Pharmacol** 1990 Jan 17;175(3):333–40
Continuous and intermittent levodopa differentially affect rotation induced by D–1 and D–2 dopamine agonists. Engber TM, et al. **Eur J Pharmacol** 1989 Sep 22; 168(3):291–8
Effect of chronic treatment of MPTP monkeys with dopamine D–1 and/or D–2 receptor agonists. Gagnon C, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):115–20
In vivo neurochemical profile of dopamine uptake inhibitors and releasers in rat caudate–putamen. Hurd YL, et al. **Eur J Pharmacol** 1989 Jul 18;166(2):251–60
Dopamine D–1 but not D–2 receptor stimulation of the dorsal striatum potentiates apomorphine–induced jaw movements in rats. Koshikawa N, et al. **Eur J Pharmacol** 1990 Mar 20;178(2):189–94
Effects of dopamine D1 and D2 agonists and antagonists injected into the nucleus accumbens and globus pallidus on jaw movements of rats. Koshikawa N, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):375–80
Acute changes in dopamine levels in rat adrenal glands after administration of dopamine receptor agonists and antagonists. Kujacic M, et al. **Eur J Pharmacol** 1990 Feb 27;177(3):163–70
Stereoselective reversal of MPTP–induced parkinsonism in the marmoset after dermal application of N–0437. Löschmann PA, et al. **Eur J Pharmacol** 1989 Aug 3; 166(3):373–80
Dihydrexidine, a novel selective high potency full dopamine

D-1 receptor agonist. Lovenberg TW, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):111-3

Effects of the selective dopamine D-2 receptor agonist, quinpirole on sleep and wakefulness in the rat. Monti JM, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):61-6

Evaluation of selective actions of dopamine D-1 and D-2 receptor agonists and antagonists on opioid antinociception. Rooney KF, et al. **Eur J Pharmacol** 1989 Sep 22; 168(3):329-36

The effects of dopamine D-1 and D-2 receptor agonists on body temperature in male mice. Sánchez C. **Eur J Pharmacol** 1989 Nov 21;171(2-3):201-6

Effects of fenoldopam on alpha-methyl-p-tyrosine-stimulated prolactin secretion in conscious rats. Schoors DF, et al. **Eur J Pharmacol** 1989 Nov 28;173(1):109-12

The role of the dopaminergic system in the modulation of the acoustic startle response in the rat. Svensson L. **Eur J Pharmacol** 1990 Jan 3;175(1):107-11

The enantiomers of the dopamine agonist N-0437: in vivo and in vitro effects on the release of striatal dopamine. Timmerman W, et al. **Eur J Pharmacol** 1989 Jul 4; 166(1):1-11

The effects of the enantiomers of the dopamine agonist N-0437 on food consumption and yawning behaviour in rats. Timmerman W, et al. **Eur J Pharmacol** 1989 Dec 12; 174(1):107-14

The potential antipsychotic activity of the partial dopamine receptor agonist (+)N-0437. Timmerman W, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):253-60

Dopamine D-1 and D-2 receptor agonists and antagonists and neuropeptide-induced excessive grooming. Van Wimersma Greidanus TB, et al. **Eur J Pharmacol** 1989 Dec 7;173(2-3):227-31

Central dopaminergic actions of YM-14673, a new TRH analogue, in rodents. Yamamoto M, et al. **Eur J Pharmacol** 1990 May 16;180(2-3):319-24

Attenuated renal response to dopaminergic drugs in spontaneously hypertensive rats. Felder RA, et al. **Hypertension** 1990 Jun;15(6 Pt 1):560-9

Possible prostaglandin-dopamine interactions during experimental gastric ulcer formation. Ray A, et al. **Indian J Exp Biol** 1990 Jun;28(6):562-5

Ocular inhibitory effects of the dopamine DA2 agonist (Ha-118) in cats and rabbits. Potter DE, et al. **J Auton Pharmacol** 1990 Jun;10(3):153-61

Cardiovascular and renal action of dopaminergic prodrugs. Casagrande C, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 8:S40-59 (110 ref.)

Dopamine and new dopamine analogs: receptors and clinical applications. Goldberg LI. **J Clin Anesth** 1988;1(1):66-74 (77 ref.)

Comparison of dopamine and fenoldopam effects on renal blood flow and prostacyclin excretion in normal and essential hypertensive subjects. Bughi S, et al. **J Clin Endocrinol Metab** 1989 Dec;69(6):1116-21

Osteocalcin levels in patients with microprolactinoma before and during medical treatment. Sartorio A, et al. **J Endocrinol Invest** 1990 May;13(5):419-22

Pre- and postsynaptic dopaminergic activities of indolizidine and quinolizidine derivatives of 3-(3-hydroxyphenyl)-N-(n-propyl)piperidine (3-PPP). Further developments of a dopamine receptor model. Liljefors T, et al. **J Med Chem** 1990 Mar;33(3):1015-22

D1 and D2 dopaminergic regulation of acetylcholine release from striata of freely moving rats. Bertorelli R, et al. **J Neurochem** 1990 Jun;54(6):2145-8

Lesions of the nigrostriatal dopamine projection increase the inhibitory effects of D1 and D2 dopamine agonists on caudate-putamen neurons and relieve D2 receptors from the necessity of D1 receptor stimulation. Hu XT, et al. **J Neurosci** 1990 Jul;10(7):2318-29

Locomotor behaviour of selective dopamine agonists in mice: is endogenous dopamine the only catecholamine involved? Pichler L, et al. **J Pharm Pharmacol** 1989 Oct;41(10):690-3

Effects of intra-accumbens administration of dopamine agonists on stress-induced behavioural deficit. Plaznik A, et al. **J Pharm Pharmacol** 1990 Feb;42(2):79-84

DTG and (+)-3-PPP inhibit a ligand-activated hyperpolarization in mammalian neurons. Bobker DH, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):840-5

Partial dopamine-agonistic and atypical neuroleptic properties of the amino-ergolines SDZ 208-911 and SDZ 208-912. Coward DM, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):279-85

Effect of quinpirole, a specific dopamine DA2 receptor agonist on the sympathoadrenal system in dogs. Damase-Michel C, et al. **J Pharmacol Exp Ther** 1990 Feb; 252(2):770-7

Influence of the DA2-receptor agonist quinpirole on the guinea pig ileum. Guenaneche F, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):489-95

Evidence from functional and autoradiographic studies for the presence of tubular dopamine-1 receptors and their involvement in the renal effects of fenoldopam. Hedge SS, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1237-45

One year of continuous treatment with haloperidol or clozapine fails to induce a hypersensitive response of caudate putamen neurons to dopamine D1 and D2 receptor agonists. Jiang LH, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):1198-205

Electrophysiological effects of selective D1 and D2 dopamine receptor agonists in the medial prefrontal cortex of young and aged Fischer 344 rats. Parfitt KD, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):539-45

U-66444B and U-68553B, potent autoreceptor agonists at dopaminergic cell bodies and terminals. Piercey MF, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):369-74

Effects of alpha adrenoceptor and dopamine receptor agonists and antagonists on ganglionic transmission. Satoh Y, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):253-7

Stimulation of a dopamine D1 receptor enhances inositol phosphates formation in rat brain. Undie AS, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):987-92

Rotation in response to selective dopamine receptor agonists in rats with electrolytic substantia nigra lesions. Asin KE, et al. **Life Sci** 1990;46(25):1817-23

D-2 dopamine autoreceptor selective drugs: do they really exist? Drukarch B, et al. **Life Sci** 1990;47(5):361-76 (163 ref.)

The dopaminergic actions of B-HT 920. Kulkarni SK, et al. **Methods Find Exp Clin Pharmacol** 1990 Mar; 12(2):99-102 (42 ref.)

Dopamine D2-receptor messenger RNA is differentially regulated by dopaminergic agents in rat anterior and neurointermediate pituitary. Autelitano DJ, et al. **Mol Cell Endocrinol** 1989 Nov;67(1):101-5

Dopamine D-2 receptor agonist-induced behavioural depression: critical dependence upon postsynaptic dopamine D-1 function. A behavioural and biochemical study. Jackson DM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Oct; 340(4):355-65

Occurrence of yawning and decrease of prolactin levels via stimulation of dopamine D2-receptors after administration of SND 919 in rats. Matsumoto S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Jul; 340(1):21-5

The effects of quinpirole and fenoldopam on the potassium-evoked overflow of endogenous dopamine and noradrenaline in dog mesenteric arteries. Soares-da-Silva P. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan-Feb; 341(1-2):37-42

The actions of (-)N-n-propylnorapomorphine and selective dopamine D1 and D2 receptor agonists to modify the release of [3H]dopamine from the rat nucleus accumbens. Barnes JM, et al. **Neuropharmacology** 1990 Apr; 29(4):327-36

Opposite effects of stimulation of D1 and D2 dopamine receptors on the expression of motor seizures in mouse and rat. al-Tajir G, et al. **Neuropharmacology** 1990 Jul; 29(7):657-61

Is there a common dopaminergic basis of time perception and reaction time? Rammsayer T. **Neuropsychobiology** 1989;21(1):37-42

Receptor subtype-specific dopaminergic agents and conditioned behavior. Beninger RJ, et al. **Neurosci Biobehav Rev** 1989 Summer-Fall;13(2-3):113-22 (82 ref.)

Inhibition of potassium currents by the sigma receptor ligand (+)-3-(3-hydroxyphenyl)-N-(1-propyl)piperidine in sympathetic neurons of the mouse isolated hypogastric ganglion. Kennedy C, et al. **Neuroscience** 1990;35(3):725-33

One-trial conditioned rotation in rats. Silverman PB. **NIDA Res Monogr** 1989;95:540-1

Interactions of 7-[3-(4-[2,3-dimethylphenyl]piperazinyl)-propoxy]-2 (1H)-quinolinone binding in rat striatum: effects of lesions. Zhang X, et al. **Pharm Res** 1990 Mar;7(3):280-2

Studies on D1 and D2 dopamine receptor involvement in conditioned taste aversions. Asin KE, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1033-41

Mediation of rat postejaculatory 22 kHz ultrasonic vocalization by dopamine D2 receptors. Cagiano R, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):53-8

Opposite effects of SK&F 38393, a dopamine D-1 agonist, and SCH 23390, a dopamine D-1 antagonist, in tests of salt preference/aversion in the rehydrating rat. Gilbert DB, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):945-8

Unilateral inactivation of dopamine receptors after intrastriatal injection of N-ethoxy-carbonyl-2-ethoxy-1,2-dihydroquinoline (EEDQ): a novel rotational model to investigate dopamine receptor interactions. Giorgi O, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):877-84

Preferential stimulation of D1 or D2 receptors disrupts food-rewarded operant responding in rats. Hoffman DC, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):923-5

The effects of amfonelic acid alone and in combination with naloxone on brain-stimulation reward. Knapp CM, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):977-82

Reversal of a mecamylamine-induced cognitive deficit with the D2 agonist, LY 171555. Levin ED, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):919-22

D1 and D2 dopamine receptor interactions with pilocarpine-induced oral activity in rats. Levin ED, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):501-5

Memory facilitation produced by dopamine agonists: role of receptor subtype and mnemonic requirements. Packard MG, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):511-8

Yawning and suppression of exploration induced by dopamine agonists: no relation to extracellular striatal levels of dopamine. Ståhle L, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):201-9

Circling evoked by intranigral SKF 38393: a GABA-mediated D-1 response? Starr MS, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):849-51

The role of D1 and D2 receptors in dopamine agonist-induced modulation of affective defense behavior in the cat. Sweidan S, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):491-9

Dopamine autoreceptor agonists attenuate spontaneous motor activity but not spontaneous fighting in individually-housed mice. Wilmot CA, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):387-91

Regression estimation from grouped observations applied to structurally diverse D2-receptor antagonists. Mager PP, et al. **Pharmazie** 1990 Jun;45(6):424-33 (84 ref.)

Yawning induced by the selective dopamine D2 agonist N-0437 is blocked by the selective dopamine autoreceptor antagonist (+)-UH 232. Cooper SJ, et al. **Physiol Behav** 1989 Jun;45(6):1263-6

Effect of antidepressant drugs and different receptor antagonists on the grooming induced by the dopamine D-1 agonist SKF 38393. Skuza G, et al. **Pol J Pharmacol Pharm** 1989 Sep-Oct;41(5):421-9

The effect of (-) deprenyl (selegiline) on different behavioral changes induced by dopamine agonists in the rat. Timar J, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec; 40(6):659-66

Prolactin effects on the dietary regulation of mouse mammary tumor virus proviral DNA expression. Hamada N, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6733-7

Dopamine- and cAMP-regulated phosphoprotein (DARPP-32) and dopamine DA1 agonist-sensitive Na+,K+-ATPase in renal tubule cells. Meister B, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8068-72

Studies of protective actions of nicotine on neuronal and vascular functions in the brain of rats: comparison between sympathetic noradrenergic and mesostriatal dopaminergic fiber systems, and the effect of a dopamine agonist. Owman C, et al. **Prog Brain Res** 1989;79:267-76

Partial brain dopamine D2 receptor agonists in the treatment of schizophrenia. Coward D, et al. **Psychopharmacol Bull** 1989;25(3):393-7 (13 ref.)

The anorectic effect of SK&F 38393, a selective dopamine D1 receptor agonist: a microstructural analysis of feeding and related behaviour. Cooper SJ, et al. **Psychopharmacology (Berl)** 1990;100(2):182-7

Repeated treatment with (-)-sulpiride plus a low dose of SCH 23390 displays wider neuroleptic activity without inducing dopaminergic supersensitivity. Dall'Olio R, et al. **Psychopharmacology (Berl)** 1990;100(4):560-2

Differential ability of selective and non-selective dopamine agonists to induce climbing in the rat indicates the involvement of both D-1 and D-2 receptors in this behaviour. Davis A, et al. **Psychopharmacology (Berl)** 1990; 100(1):19-26

Comparison of the effects of three indirect dopamine agonists, GK 13, GBR 12783 and dexamphetamine on behavioural tests involving central catecholaminergic transmissions. Duterte-Boucher D, et al. **Psychopharmacology (Berl)** 1990; 101(3):344-53

Effects of dopaminergic agents on alcohol consumption by rats in a limited access paradigm. Linseman MA. **Psychopharmacology (Berl)** 1990;100(2):195-200

The effects of intrathecal administration of the dopamine agonist apomorphine on penile reflexes and copulation in the male rat. Pehek EA, et al. **Psychopharmacology (Berl)** 1989;99(3):304-8

Repeated ECS enhances dopamine D-1 but not D-2 agonist-induced behavioural responses in rats. Sharp T, et al. **Psychopharmacology (Berl)** 1990;100(1):110-4

Possible involvement of differing classes of dopamine D-2 receptors in yawning and stereotypy in rats. Yamada K, et al. **Psychopharmacology (Berl)** 1990;100(2):141-4

Dopaminergic drug-receptor interactions [letter; comment] Scott JE. **Trends Pharmacol Sci** 1989 Jan;10(1):14-5 Comment on: Trends Pharmacol Sci 1988 Aug;9(8):282-4.

[Interactions of GABAergic and catecholaminergic neurotransmissions. Effects of dopaminergic and noradrenergic agonists and antagonists on GABA turnover] Bernasconi R, et al. **Encephale** 1989 Jul-Aug;15(4):377-85 (Eng. Abstr.) **(Fre)**

[Effects of the partial dopamine receptor agonist, terguride, on the field-stimulated vas deferens in the mouse] Carratù MR, et al. **Boll Soc Ital Biol Sper** 1990 Jan;66(1):35-42 (Eng. Abstr.) **(Ita)**

[Anti-cholinesterase activity of dopamine D2 receptor antagonist: its clinical significance] Mizumoto A, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Aug;25(4):155-65 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Treatment of prolactin-secreting pituitary macroadenomas with the long-acting non-ergot dopamine agonist CV 205-502. Vance ML, et al. **Ann Intern Med** 1990 May 1; 112(9):668-73

Dopamine receptor agonists, N,N-dipropyl-2-aminotetralin (TL-68) and 2-di-n-propylamino-4,7-dimethoxyindane (RDS-127) antagonize oxotremorine-induced tremors by antimuscarinic action in mice. Sahin I, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):7-9

Renal and humoral effects of ibopamine, a dopamine agonist, in patients with liver cirrhosis. Salerno F, et al. **Arch Intern Med** 1990 Jan;150(1):65-9

Clinical relevance of long-term therapy with levodopa and orally active dopamine analogues in patients with chronic congestive heart failure. Hasenfuss G, et al. **Basic Res Cardiol** 1989;84 Suppl 1:191–6 (33 ref.)

Preservation of renal blood flow during hypotension induced with fenoldopam in dogs. Aronson S, et al. **Can J Anaesth** 1990 Apr;37(3):380–4

Renal and hemodynamic effects of intravenous fenoldopam versus nitroprusside in severe hypertension. Elliott WJ, et al. **Circulation** 1990 Mar;81(3):970–7

Role of dopamine receptors and the utility of dopamine agonists in heart failure. Rajfer SI, et al. **Circulation** 1990 Aug;82(2 Suppl):I97–102 (77 ref.)

Effect of subacute cabergoline treatment on prolactin, thyroid stimulating hormone and growth hormone response to simultaneous administration of thyrotrophin-releasing hormone and growth hormone-releasing hormone in hyperprolactinaemic women. Giusti M, et al. **Clin Endocrinol (Oxf)** 1989 Mar;30(3):315–21

A double-blind study comparing a new non-ergot, long-acting dopamine agonist, CV 205-502, with bromocriptine in women with hyperprolactinaemia. Homburg R, et al. **Clin Endocrinol (Oxf)** 1990 May; 32(5):565–71

Chronic treatment with talipexole dihydrochloride on abnormal involuntary movement in humans. Nishikawa T, et al. **Clin Neuropharmacol** 1990 Jun;13(3):259–63

CV 205-502: safety, tolerance to, and efficacy of increasing doses in patients with Parkinson's disease in a double-blind, placebo crossover study. Olanow CW, et al. **Clin Neuropharmacol** 1989 Dec;12(6):490–7

Effects of terguride in patients with Huntington's disease. Stocchi F, et al. **Clin Neuropharmacol** 1989 Oct;12(5):435–9

A preliminary study of the dopamine DA1 agonist fenoldopam in the treatment of chronic left ventricular failure due to ischaemic heart disease. MacDonald TM, et al. **Eur J Clin Pharmacol** 1990;38(2):199–201

Therapeutic applications of drugs acting on peripheral dopamine receptors. Horn PT, et al. **J Clin Pharmacol** 1990 Aug;30(8):674–9 (51 ref.)

Diuretic and natriuretic properties of fenoldopam in chronic renal failure. Andrés A, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S326–7

Predicting new effective treatments of alcohol addiction on the basis of their properties of inhibition of noradrenergic activity and/or thromboxane or on the activation of the dopamine reward system and/or beta-endorphin. Backon J. **Med Hypotheses** 1989 Aug;29(4):237–9

B-HT 920—a novel dopamine autoreceptor agonist in the treatment of patients with schizophrenia. Wiedemann K, et al. **Pharmacopsychiatry** 1990 Jan;23(1):50–5

Pharmacologic approaches to the treatment of cocaine dependence. Taylor WA, et al. **West J Med** 1990 May; 152(5):573–7 (56 ref.)

[Dopanergic agonists and schizophrenia] Pidgeon JF, et al. **Psychiatr J Univ Ott** 1989 Nov;14(4):529–35 (63 ref.) (Eng. Abstr.) **(Fre)**

[Current approaches in the treatment of Parkinson disease] Caraceni T, et al. **Recenti Prog Med** 1989 Dec; 80(12):686–91 (21 ref.) (Eng. Abstr.) **(Ita)**

[Perspectives in the treatment of arterial hypertension: interventions at the dopaminergic system level] Soares-da-Silva P. **Rev Port Cardiol** 1988 Mar-Apr; 7(2):191–210 (208 ref.) (Eng. Abstr.) **(Por)**

[New therapeutic alternatives in Parkinson disease] García de Yébenes J, et al. **Neurologia** 1987 Sep-Oct;2(5):199–201 **(Spa)**

TOXICITY

LY 171555-induced catalepsy and defensive behavior in four strains of mice suggest the involvement of different D2 dopamine receptor systems. Puglisi-Allegra S, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):327–31

DOPING IN SPORTS

The use of anabolic steroids in high school students. Terney R, et al. **Am J Dis Child** 1990 Jan;144(1):99–103

How much caffeine is too much in athletes? [letter] Price KO, et al. **Am J Hosp Pharm** 1990 Feb;47(2):303

Abuse of drugs used to enhance athletic performance. Wagner JC. **Am J Hosp Pharm** 1989 Oct;46(10):2059–67 (89 ref.)

Anabolic steroid-induced hypogonadotropic hypogonadism. Jarow JP, et al. **Am J Sports Med** 1990 Jul-Aug; 18(4):429–31

Illicit anabolic steroid use in athletes. A case series analysis. Perry PJ, et al. **Am J Sports Med** 1990 Jul-Aug;18(4):422–8

Drug tests and amateur athletes. Newman AR. **Anal Chem** 1990 May 15;62(10):602A–603A

Blood doping—a literature review. Jones M, et al. **Br J Sports Med** 1989 Jun;23(2):84–8 (48 ref.)

Drug testing in sports. **J Anal Toxicol** 1990 Mar-Apr; 14(2):65–136

Quantitative determination of stanozolol and its metabolite in urine by gas chromatography/mass spectrometry. Choo HY, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):109–12

Analysis of anabolic steroids using GC/MS with selected ion monitoring. Chung BC, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):91–5

Comparison of the GC/MS ion trapping technique with GC-FTIR for the identification of stimulants in drug testing. de Jong EG, et al. **J Anal Toxicol** 1990 Mar-Apr; 14(2):127–31

Analysis of bumetanide in human urine by high-performance liquid chromatography with fluorescence detection and gas chromatography/mass spectrometry. Gradeen CY, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):123–6

Urinary excretion of furazabol metabolite. Gradeen CY, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):120–2

Systematic analysis of stimulants and narcotic analgesics by gas chromatography with nitrogen specific detection and mass spectrometry. Lho DS, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):73–6

Determination of phenolalkylamines, narcotic analgesics, and beta-blockers by gas chromatography/mass spectrometry. Lho DS, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):77–83

Drug testing at the 10th Asian Games and 24th Seoul Olympic Games. Park J, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):66–72

Systematic analysis of diuretic doping agents by HPLC screening and GC/MS confirmation. Park SJ, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):84–90

Analysis of corticosteroids in urine by HPLC and thermospray LC/MS. Park SJ, et al. **J Anal Toxicol** 1990 Mar-Apr;14(2):102–8

Rapid extraction and determination of xylazine in greyhound urine using high-performance liquid chromatography. Moore CM, et al. **J Chromatogr** 1989 Jul 21;491(2):519–24

Gas chromatographic mass-specific investigation of dextromoramide (Palfium) metabolism in the horse. Reilly PJ, et al. **J Chromatogr** 1990 Jan 5;498(1):35–40

The incidence of anabolic steroid use among competitive bodybuilders. Tricker R, et al. **J Drug Educ** 1989; 19(4):313–25

Of MDs and muscles—lessons from two 'retired steroid doctors'. Breo DL. **JAMA** 1990 Mar 23-30;263(12):1697, 1699, 1703–5

The abuse of erythropoietin to enhance athletic performance [letter] Scott WC. **JAMA** 1990 Oct 3;264(13):1660

Prevalence of anabolic steroid use by male and female adolescents. Windsor R, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):494–7

Drug testing [letter] **Postgrad Med** 1989 Nov 15;86(7):28

Epidemiological and policy issues in the measurement of the long term health effects of anabolic-androgenic steroids. Yesalis CE 3d, et al. **Sports Med** 1989 Sep;8(3):129–38 (116 ref.)

Steroid use by athletes shows poor judgment, lost integrity [editorial] Corley FG. **Tex Med** 1990 Mar;86(3):4

Anabolic steroids in athletics. Holden SC, et al. **Tex Med** 1990 Mar;86(3):32–6

[Doping substances produced in Czechoslovakia] Vodičková I, et al. **Cesk Farm** 1989 Jul;38(5):236–7 **(Cze)**

[Drug abuse in body builders. A questionnaire study] Kisling A, et al. **Ugeskr Laeger** 1989 Oct 2;151(40):2582–4 (Eng. Abstr.) **(Dan)**

[Doping—also a problem in general practice?] Dickhuth HH, et al. **Fortschr Med** 1989 Sep 30;107(28):585–8 (Eng. Abstr.) **(Ger)**

[Acne fulminans following use of anabolic steroids] Mayerhausen W, et al. **Z Hautkr** 1989 Oct 15;64(10):875–6, 879–80 (Eng. Abstr.) **(Ger)**

[Doping control] Ueki M, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:1270–5 **(Jpn)**

[Doping and doping control] Norman N. **Tidsskr Nor Laegeforen** 1990 May 20;110(13):1643–4 **(Nor)**

LEGISLATION & JURISPRUDENCE

Inaugural Bleasdale memorial FINA lecture: some legal aspects in regard to doping controls. Beyer H. **Med Sci Law** 1990 Jul;30(3):197–202

PREVENTION & CONTROL

Preparing community educational presentations on ergogenic drug use. Isetts BJ. **Am J Hosp Pharm** 1989 Oct; 46(10):2028–30

Pharmaceutical services at the Tenth Pan American Games. Wagner JC, et al. **Am J Hosp Pharm** 1989 Oct; 46(10):2023–7

Blunting 'steroid epidemic' requires alternatives, innovative education [news] Cowart VS. **JAMA** 1990 Oct 3; 264(13):1641

Anabolic steroid use among high school athletes. Engel NS. **MCN** 1989 Nov-Dec;14(6):417

[Locker room pharmacology (editorial)] Heinzl S. **Med Monatsschr Pharm** 1990 Apr;13(4):97 **(Ger)**

DOPPLER ECHOCARDIOGRAPHY see **ECHOCARDIOGRAPHY, DOPPLER**

DOPPLER EFFECT see under **PHYSICS**

DOPPLER ULTRASOUND see **ULTRASONICS**

DOPPLER VELOCIMETERS see **FLOWMETERS**

DORMICE see **RODENTIA**

DORSAL ROOT GANGLIA see **GANGLIA, SPINAL**

DORSOMEDIAL HYPOTHALAMIC NUCLEUS see under **HYPOTHALAMUS, MIDDLE**

DOSAGE COMPENSATION (GENETICS)

The human arylsulfatase-C isoenzymes: two distinct genes that escape from X inactivation. Chang PL, et al. **Am J Hum Genet** 1990 Apr;46(4):729–37

Methylation status of genes flanking the fragile site in males with the fragile-X syndrome: a test of the imprinting hypothesis. Khalifa MM, et al. **Am J Hum Genet** 1990 Apr; 46(4):744–53

Two progenitor cells for human oogonia inferred from pedigree data and the X-inactivation imprinting model of the fragile-X syndrome. Laird CD, et al. **Am J Hum Genet** 1990 Apr;46(4):696–719

Do twin Lyons have larger spots? Nance WE. **Am J Hum Genet** 1990 Apr;46(4):646–8

Skewed X inactivation in a female MZ twin results in Duchenne muscular dystrophy. Richards CS, et al. **Am J Hum Genet** 1990 Apr;46(4):672–81

Mental retardation in heterozygotes for the fragile-X mutation: evidence in favor of an X inactivation-dependent effect. Rocchi M, et al. **Am J Hum Genet** 1990 Apr; 46(4):738–43

Population genetic consequences of the fragile-X syndrome, based on the X-inactivation imprinting model. Sved JA, et al. **Am J Hum Genet** 1990 Mar;46(3):443–51

Patterns of X chromosome inactivation in the Rett syndrome. Zoghbi HY, et al. **Brain Dev** 1990;12(1):131–5

Two identical active X chromosomes in human mammary carcinoma cells. Wang N, et al. **Cancer Genet Cytogenet** 1990 Jun;46(2):271–80

X-chromosome inactivation in the human cytotrophoblast. Harrison KB. **Cytogenet Cell Genet** 1989;52(1-2):37–41

Sister chromatid exchanges in the human active and inactive X chromosomes. Zhang A, et al. **Cytogenet Cell Genet** 1989; 52(1-2):79–82

Gene dosage effects on transmission ratio distortion and fertility in mice that carry t haplotypes. Silver LM. **Genet Res** 1989 Dec;54(3):221–5

Analysis of autosomal dosage compensation involving the alcohol dehydrogenase locus in Drosophila melanogaster. Birchler JA, et al. **Genetics** 1990 Mar;124(3):679–86

The role of sdc-1 in the sex determination and dosage compensation decisions in Caenorhabditis elegans. Villeneuve AM, et al. **Genetics** 1990 Jan;124(1):91–114

Methylation patterns at the hypervariable X-chromosome locus DXS255 (M27 beta): correlation with X-inactivation status. Boyd Y, et al. **Genomics** 1990 Jun;7(2):182–7

Differential methylation of the hypervariable locus DXS255 on active and inactive X chromosomes correlates with the expression of a human X-linked gene. Brown RM, et al. **Genomics** 1990 Jun;7(2):215–21

Genetic mapping in the region of the mouse X-inactivation center. Keer JT, et al. **Genomics** 1990 Aug;7(4):566–72

Chromosomal localization of ZFX—a human gene that escapes X inactivation—and its murine homologs. Page DC, et al. **Genomics** 1990 May;7(1):37–46

Unusual X chromosome inactivation in a mentally retarded girl with an interstitial deletion Xq27: implications for the fragile X syndrome. Schmidt M, et al. **Hum Genet** 1990 Mar;84(4):347–52

Homocysteine, factor VII and antithrombin III in subjects with different gene dosage for cystathionine beta-synthase. Brattström L, et al. **J Inherited Metab Dis** 1989; 12(4):475–82

Prenatal test for X-linked severe combined immunodeficiency by analysis of maternal X-chromosome inactivation and linkage analysis. Puck JM, et al. **N Engl J Med** 1990 Apr 12;322(15):1063–6

Dependence of position-effect variegation in Drosophila on dose of a gene encoding an unusual zinc-finger protein. Reuter G, et al. **Nature** 1990 Mar 15;344(6263):219–23

X chromosome inactivation of the human TIMP gene. Brown CJ, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4191–5

Sex difference in methylation of single-copy genes in human meiotic germ cells: implications for X chromosome inactivation, parental imprinting, and origin of CpG mutations. Driscol DJ, et al. **Somat Cell Mol Genet** 1990 May;16(3):267–82

DOSAGE FORMS

The impact of innovative drug delivery systems on drug toxicity [editorial] Mauger JW. **J Toxicol Clin Toxicol** 1989; 27(3):v–vii

[Insulin: U40 and U100] Belshaw BE, et al. **Tijdschr Diergeneeskd** 1989 Dec 15;114(24):1267 **(Dut)**

[Drug administration. Liquid drugs for peroral administration] Kircher W. **Med Monatsschr Pharm** 1990 Jan;13(1):16–8 **(Ger)**

ANALYSIS

Homoeopathic test [letter] Roberts TD. **Nature** 1989 Nov 23;342(6248):350

STANDARDS

[Evaluation of three concentrations of beta-blocker eyedrops. Criteria for choosing and efficacy] de Galleani B.

Ophtalmologie 1989 Jun-Aug;3(3):220-2 (Eng. Abstr.) **(Fre)**

DOSE-RESPONSE RELATIONSHIP, DRUG

Analysis and comparison of sigmoidal curves: application to dose-response data. Meddings JB, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G982-9

Choice of number of doses for maximum likelihood estimation of the ED50 for quantal dose-response data. Müller HG, et al. **Biometrics** 1990 Mar;46(1):117-29

Use of metabolite AUC data in bioavailability studies to discriminate between absorption and first-pass extraction. Weiss M. **Clin Pharmacokinet** 1990 May;18(5):419-22

Dose intensity versus total dose of chemotherapy: an experimental basis. Skipper HE. **Important Adv Oncol** 1990; :43-64 (8 ref.)

Estimation of quantal dose response of drugs by the Spearman-Karber method: a computer program written in BASIC. Fung KP, et al. **J Singapore Paediatr Soc** 1989; 31(3-4):129-32

Statistical analysis of dose-response curves in extracellular electrophysiological studies of single neurons. Pitts DK, et al. **Synapse** 1990;5(4):281-93

Dose-response relationship in the treatment of gastrointestinal disorders. Weihrauch TR, et al. **Z Gastroenterol** 1989 Aug;27(8):438-43 (48 ref.)

[The action of chemical agents at ultralow doses on biological objects] Burlakova EB, et al. **Izv Akad Nauk SSSR [Biol]** 1990 Mar-Apr;(2):184-93 (29 ref.) (Eng. Abstr.) **(Rus)**

DOSE-RESPONSE RELATIONSHIP, RADIATION

26th Hanford Life Sciences Symposium. Modeling for scaling to man: biology, dosimetry, and response. **Health Phys** 1989;57 Suppl 1:1-466

Radiation biology at clinically relevant fractions. Peters LJ, et al. **Important Adv Oncol** 1990;:65-83 (107 ref.)

New options in direct analysis of dose-response data. Bentzen SM, et al. **Int J Radiat Biol** 1990 Jan;57(1):221-5

Lysis solution composition and non-linear dose-response to ionizing radiation in the non-denaturing DNA filter elution technique. Radford IR. **Int J Radiat Biol** 1990 Mar; 57(3):479-83

Hormesis [letter; comment] **Science** 1989 Oct 20; 246(4928):311 Comment on: Science 1989 Aug 11;245(4918):574, 621.

The correlation between cell survival curve and dose response curve of micronucleus (MN) frequency. Ono K, et al. **Strahlenther Onkol** 1989 Nov;165(11):824-7

[Dose-effect curves in stochastic radiation intensity] Kruglikov IL. **Radiobiologiia** 1990 Mar-Apr;30(2):211-4 (Eng. Abstr.) **(Rus)**

DOT IMMUNOBLOTTING see **IMMUNOBLOTTING**

DOTHIEPIN see under **DIBENZOTHIEPINS**

DOUBLE BIND THEORY see under **PSYCHOLOGICAL THEORY**

DOUBLE-BLIND METHOD

Double-blind trials [letter; comment] Newcombe RG. **Br J Psychiatry** 1990 Feb;156:282 Comment on: Br J Psychiatry 1989 Nov;155:700-1.

Is your 'double-blind' design truly double-blind? [see comments] Oxtoby A, et al. **Br J Psychiatry** 1989 Nov; 155:700-1 Comment in: Br J Psychiatry 1990 Feb;156:282.

DOUBLE OUTLET RIGHT VENTRICLE

DIAGNOSIS

Mitral atresia with double outlet right ventricle in an asymptomatic adult. Mohan JC, et al. **Int J Cardiol** 1990 Apr;27(1):117-9

MR imaging of double outlet right ventricle. Mayo JR, et al. **J Comput Assist Tomogr** 1990 May-Jun;14(3):336-9

[Double-outlet right ventricle with mitral atresia. Study of 9 cases] Santos de Soto J, et al. **Rev Esp Cardiol** 1990 Jan; 43(1):23-8 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Maternal diabetes and cardiovascular malformations: predominance of double outlet right ventricle and truncus arteriosus. Ferencz C, et al. **Teratology** 1990 Mar; 41(3):319-26

RADIOGRAPHY

Double outlet right ventricle with discordant atrioventricular connexion: an angiographic analysis of 19 cases. Battistessa S, et al. **Int J Cardiol** 1990 May;27(2):253-63; discussion 265-7

SURGERY

Partial biventricular repair for double-outlet right ventricle with left ventricular hypoplasia. Day R, et al. **Ann Thorac Surg** 1990 Jun;49(6):1003-5

Sudden death after repair of double-outlet right ventricle. Shen WK, et al. **Circulation** 1990 Jan;81(1):128-36

Recognition of residual ventricular septal defect by intraoperative contrast echocardiography. Gussenhoven EJ, et al. **Eur Heart J** 1989 Sep;10(9):801-5

Exclusive double outlet right ventricle with atrioventricular concordance and pulmonary stenosis. Results of reconstructive surgery. Busquet J, et al. **Eur J Cardiothorac Surg** 1988;2(3):176-84

Aortopulmonary shunt with replacement of a common atrioventricular valve in a patient with double inlet ventricle. Shimoyama Y, et al. **Int J Cardiol** 1990 Aug; 28(2):263-6

Common atrioventricular valve guarding double inlet atrioventricular connexion: natural history and surgical results in 76 cases. Stein JI, et al. **Int J Cardiol** 1990 Jul; 28(1):7-17

[A case of modified Fontan operation for complete atrioventricular canal of right dominance with double-outlet right ventricle, common atrioventricular valve regurgitation] Eishi K, et al. **Kyobu Geka** 1990 Feb; 43(2):147-50 (Eng. Abstr.) **(Jpn)**

[Jatene procedure for the intermediate type between original Taussig-Bing malformation and posterior transposition of the great arteries: a case report] Yamagishi M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun;37(6):1266-71 (Eng. Abstr.) **(Jpn)**

[Origin of the aorta and pulmonary artery from the right ventricle] Burakovskiĭ VI, et al. **Grud Serdechnososudistaia Khir** 1990;(1):4-10 (Eng. Abstr.) **(Rus)**

DOUBLE REFRACTION see **BIREFRINGENCE**

DOUBLE VISION see **DIPLOPIA**

DOUCHING see **IRRIGATION**

DOUGLAS' POUCH

[The Douglas abscess] van Houte A, et al. **Ned Tijdschr Geneeskd** 1990 Aug 4;134(31):1481-3 **(Dut)**

[Retrovesical hydatid cyst (or of Douglas' pouch). Apropos of 3 cases] Mosbah A, et al. **J Urol (Paris)** 1989;95(8):465-9 (Eng. Abstr.) **(Fre)**

[A case of right ureteral stricture due to endometriosis in the pouch of Douglas] Takamura C, et al. **Hinyokika Kiyo** 1989 Jul;35(7):1201-5 (Eng. Abstr.) **(Jpn)**

[Extirpation, Douglas space] Stamenković M, et al. **Jugosl Ginekol Perinatol** 1989 May-Aug;29(3-4):149-51 **(Scr)**

SURGERY

A new method for gaining entry into the scarred anterior cul-de-sac during transvaginal hysterectomy. Hoffman MS, et al. **Am J Obstet Gynecol** 1990 May;162(5):1269-70

Exploratory culdotomy in diagnosis of adnexal disease. Marchant DJ. **Fertil Steril** 1966 May-Jun;17(3):314-22

DOURINE see under **TRYPANOSOMIASIS**

DOWN-REGULATION (PHYSIOLOGY)

Down-regulated insulin receptors in HepG2 cells have an altered intracellular itinerary. Levy JR, et al. **Am J Med Sci** 1990 May;299(5):302-8

Absence of insulin-receptor downregulation in hepatocytes from hyperinsulinemic rats. Bottomley S, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):E352-9

Downregulation of parathyroid hormone receptors in renal membranes from aged rats. Hanai H, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):F444-50

Downregulation of beta-adrenergic receptor-mediated function during sodium restriction in humans. Rosen SG, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):E499-504

Kinetic analysis of the downregulation of epidermal growth factor receptors in rats in vivo. Yanai S, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):C593-8

Multiple tyrosine protein kinases structurally related to p56 lck are down-regulated following mitogenic stimulation of human T lymphocytes. Hall BS, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):127-33

Differential down-regulation of beta 1- and beta 2-adrenergic receptor mRNA in C6 glioma cells. Hough C, et al. **Biochem Biophys Res Commun** 1990 Jul 16; 170(1):46-52

Insulin-receptor autophosphorylation and kinase activity are constitutively increased in fibroblasts cultured from a patient with heritable insulin-resistance. Longo N, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1229-34

Increase in the amount of glutathione transferase 4-4 in the rat adrenal gland after hypophysectomy and down-regulation by subsequent treatment with adrenocorticotrophic hormone. Mankowitz L, et al. **Biochem J** 1990 Jan 1;265(1):147-54

Phorbol-ester-induced down-regulation of protein kinase C in mouse pancreatic islets. Potentiation of phase 1 and inhibition of phase 2 of glucose-induced insulin secretion. Thams P, et al. **Biochem J** 1990 Feb 1;265(3):777-87

Human lymphocyte and myocardial beta-adrenoceptors: up and down regulation. Sbirrazzuoli V, et al. **Biomed Pharmacother** 1989;43(5):369-74

c-myc down regulation and precommitment in HL-60 cells due to bromodeoxyuridine. Yen A, et al. **Cancer Res** 1990 Mar 1;50(5):1411-20

Down-regulation of autoantibody levels of cyclosporine and bromocriptine treatment in patients with uveitis. Blank M, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):87-97

Protein kinase-C-induced down-regulation of calcitonin receptors and calcitonin-activated adenylate cyclase in T47D and BEN cells. Findlay DM, et al. **Endocrinology** 1989 Nov;125(5):2656-63

Mechanisms of homologous and heterologous regulation of parathyroid hormone receptors in the rat osteosarcoma cell line UMR-106. Mitchell J, et al. **Endocrinology** 1990 May; 126(5):2650-60

A 'top-down' approach to the determination of control coefficients in metabolic control theory. Brown GC, et al. **Eur J Biochem** 1990 Mar 10;188(2):321-5

EGF receptor down-regulation attenuates ligand-induced second messenger formation. Gilligan A, et al. **Exp Cell Res** 1990 Mar;187(1):134-42

Density-induced down regulation of epidermal growth factor receptors. Rizzino A, et al. **In Vitro Cell Dev Biol** 1990 May;26(5):537-42

Human glucocorticoid receptor cDNA contains sequences sufficient for receptor down-regulation. Burnstein KL, et al. **J Biol Chem** 1990 May 5;265(13):7284-91

Transforming growth factor beta treatment decreases ACTH receptors on ovine adrenocortical cells. Rainey WE, et al. **J Biol Chem** 1989 Dec 25;264(36):21474-7

Insulin down-regulates insulin receptor number and up-regulates insulin receptor affinity in cells expressing a tyrosine kinase-defective insulin receptor. Sbraccia P, et al. **J Biol Chem** 1990 Mar 25;265(9):4902-7

Ligand-mediated internalization, recycling, and downregulation of the epidermal growth factor receptor in vivo [published erratum appears in J Cell Biol 1990 Jan;110(1):following 227] Lai WH, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2741-9

Transformation of NIH 3T3 cells with basic fibroblast growth factor or the hst/K-fgf oncogene causes downregulation of the fibroblast growth factor receptor: reversal of morphological transformation and restoration of receptor number by suramin. Moscatelli D, et al. **J Cell Biol** 1989 Nov;109(5):2519-27

Decreased adrenergic neuronal uptake activity in experimental right heart failure. A chamber-specific contributor to beta-adrenoceptor downregulation. Liang CS, et al. **J Clin Invest** 1989 Oct;84(4):1267-75

Dual molecular mechanisms mediate ligand-induced membrane Ig desensitization. Cambier JC, et al. **J Immunol** 1990 Jul 1;145(1):13-9

Suppression of MHC class I RNA in highly oncogenic cells occurs at the level of transcription initiation. Lassam N, et al. **J Immunol** 1989 Dec 1;143(11):3792-7

Feedback-inhibition of growth hormone (GH) secretion in fowl: GH-induced down-regulation of thyrotrophin-releasing hormone binding to pituitary membranes. Harvey S, et al. **J Mol Endocrinol** 1990 Feb; 4(1):13-21

Thyroidal inhibition of growth hormone secretion in fowl: tri-iodothyronine-induced down-regulation of thyrotrophin-releasing hormone-binding sites on pituitary membranes. Harvey S, et al. **J Mol Endocrinol** 1990 Apr; 4(2):127-34

Down-regulation of progestin receptors in guinea pig brain: new findings using an immunocytochemical technique. Blaustein JD, et al. **J Neurobiol** 1990 Jul;21(5):675-85

Calmodulin involvement in stress- and corticosterone-induced down-regulation of cyclic AMP-generating systems in brain. Gannon MN, et al. **J Neurochem** 1990 Jul;55(1):276-84

Cholesterol synthesis is down-regulated during regeneration of peripheral nerve. Goodrum JF. **J Neurochem** 1990 May; 54(5):1709-15

Apparent age-related resistance of type II hippocampal corticosteroid receptors to down-regulation during chronic escape training. Eldridge JC, et al. **J Neurosci** 1989 Sep; 9(9):3237-42

Specific down-regulation of the alpha-bungarotoxin binding component on chick autonomic neurons by ciliary neuronotrophic factor. Halvorsen SW, et al. **J Neurosci** 1989 Oct;9(10):3673-80

Progesterone receptor concentration differences in the chick oviduct cells and apparent down-regulation by ligand. A semiquantitative immunohistochemical study. Pekki A, et al. **J Steroid Biochem** 1989;34(1-6):351-4

Tumor necrosis factor alpha down-regulates c-myc mRNA expression and induces in vitro monocytic differentiation in fresh blast cells from patients with acute myeloblastic leukemia. Bergamaschi G, et al. **Leukemia** 1990 Jun; 4(6):426-30

Down-regulation of 3H-imipramine binding sites in rat cerebral cortex after prenatal exposure to antidepressants. Montero D, et al. **Life Sci** 1990;46(22):1619-26

Cell-specific regulation of progesterone receptor in the

female reproductive system. Clarke CL.
Mol Cell Endocrinol 1990 May 7;70(3):C29–33 (36 ref.)

ET–1 receptors in C–6 cells: homologous down–regulation and modulation by protein kinase C. Cozza EN, et al.
Mol Cell Endocrinol 1990 Apr 17;70(2):155–64

Regulation of glucocorticoid receptor by glucocorticoids (II)—The studies on rat liver, brain and spleen. Xu RB, et al. **Sci China [B]** 1990 Mar;33(3):288–93

DRUG EFFECTS

Reduction of beta–adrenergic receptors can explain the lack of rebound effect after tertatolol withdrawal. De Blasi A, et al. **Am J Hypertens** 1989 Nov;2(11 Pt 2):257S–260S

Cholecystokinin downregulates receptors for vasoactive intestinal peptide and secretin in rat pancreatic acini. Katsushima S, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G395–403

Androgen receptor of rat penis is down–regulated by androgen. Takane KK, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E46–50

Carbachol desensitizes pancreatic enzyme secretion by downregulation of receptors. Vinayek R, et al.
Am J Physiol 1990 Jan;258(1 Pt 1):G107–21

Phorbol ester promotes a sustained down–regulation of endothelin receptors and cellular responses to endothelin in human vascular smooth muscle cells. Resink TJ, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1213–9

Angiotensin II and phorbol–esters potently down–regulate endothelin (ET–1) binding sites in vascular smooth muscle cells. Roubert P, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):809–15

Chronic benzodiazepine administration. IV. Rapid development of tolerance and receptor downregulation associated with alprazolam administration. Miller LG, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3773–7

Phorbol ester–induced downregulation of protein kinase C potentiates insulin receptor tyrosine autophosphorylation: evidence for a major constitutive role in insulin receptor regulation. Pillay TS, et al. **Biochem Soc Trans** 1990 Jun; 18(3):494–5

Prolonged thrombocytosis in mice after 5–fluorouracil results from failure to down–regulate megakaryocyte concentration. An experimental model that dissociates regulation of megakaryocyte size and DNA content from megakaryocyte concentration. Chenaille PJ, et al. **Blood** 1990 Aug 1;76(3):508–15

Inability of medroxyprogesterone acetate to down regulate estrogen receptor level in human breast cancer. Noguchi S, et al. **Cancer** 1990 Mar 15;65(6):1375–9

Recombinant interferon gamma up–regulates in vivo and down–regulates in vitro monocyte CD14 antigen expression in cancer patients. Landmann R, et al.
Cancer Immunol Immunother 1990;31(5):292–6

Inhibition of mouse mammary ductal morphogenesis and down–regulation of the EGF receptor by epidermal growth factor. Coleman S, et al. **Dev Biol** 1990 Feb; 137(2):425–33

Inactivation of pertussis toxin–sensitive guanyl nucleotide–binding proteins increase parathyroid hormone receptors and reverse agonist–induced receptor down–regulation in ROS 17/2.8 cells. Abou–Samra AB, et al. **Endocrinology** 1989 Nov;125(5):2594–9

Regulation of beta–adrenoceptors in the guinea pig left ventricle and skeletal muscle following chronic agonist treatment. Elfellah MS, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):387–92

Down–regulation of hypothalamic 5–HT1A receptors in morphine–abstinent rats. Gulati A, et al.
Eur J Pharmacol 1990 Jul 3;182(2):253–9

Rapid development of brain beta–adrenoceptor down–regulation induced by phenelzine: subcellular studies. Koshikawa N, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):101–4

Beta down–regulation induced by repeated vasopressin treatment. Nalepa I, et al. **Eur J Pharmacol** 1990 Mar 27; 178(3):375–6

Repeated administration of lisuride down–regulates dopamine D–2 receptor function in mesostriatal and in mesolimbocortical rat brain regions. Nisoli E, et al.
Eur J Pharmacol 1990 Jan 25;176(1):85–90

Intrinsic sympathomimetic activity of beta–adrenoceptor antagonists: down–regulation of cardiac beta 1– and beta 2–adrenoceptors. Reithmann C, et al. **Eur J Pharmacol** 1989 Nov 7;170(3):243–55

Mechanisms of downregulation of beta–adrenergic receptors: perspective on the role of beta–adrenergic receptors in congestive heart failure. Frey MJ, et al.
J Cardiovasc Pharmacol 1989;14 Suppl 5:S13–8 (14 ref.)

Effectiveness of cardiac glycosides in human myocardium with and without "downregulated" beta–adrenoceptors. Schwinger RH, et al. **J Cardiovasc Pharmacol** 1990 May; 15(5):692–7

IL–4 blocks the up–regulation of IL–2 receptors induced by IL–2 in normal human B cells. Lee HK, et al.
J Immunol 1990 May 1;144(9):3431–6

Pituitary down–regulation using leuprolide for the intensive ovulation management of poor prognosis patients having in vitro fertilization (IVF)–related treatments. Cummins JM, et al. **J In Vitro Fert Embryo Transf** 1989 Dec; 6(6):345–52

Interleukin–4 downregulates interleukin–6 production in human peripheral blood mononuclear cells. Lee JD, et al. **J Leukoc Biol** 1990 May;47(5):475–9

Apparent down–regulation of rat brain mu– and kappa–opioid binding sites labelled with [3H]cycloFOXY following chronic administration of the potent 5–hydroxytryptamine reuptake blocker, clomipramine. Benkelfat C, et al. **J Pharm Pharmacol** 1989 Dec; 41(12):865–7

Oestrogens down–regulate type I but not type II adrenal corticoid receptors in rat anterior pituitary. Ferrini M, et al. **J Steroid Biochem** 1990 May;35(6):671–7

Phorbol ester treatment down–regulates immunoglobulin RNA steady–state levels in B type chronic lymphocytic leukemia and non–Hodgkin's lymphoma cells. Johansson K, et al. **Leukemia** 1990 Sep;4(9):641–5

Morphine–induced desensitization and down–regulation at mu–receptors in 7315C pituitary tumor cells. Puttfarcken PS, et al. **Life Sci** 1989;45(20):1937–42

Homologous down–regulation of gonadotropin–releasing hormone receptors and desensitization of gonadotropes: lack of dependence on protein kinase C. McArdle CA, et al. **Mol Endocrinol** 1987 Jun;1(6):420–9

Adenosine is required for ethanol–induced heterologous desensitization. Nagy LE, et al. **Mol Pharmacol** 1989 Nov; 36(5):744–8

Desensitization of islet cells to bombesin involves both receptor down–modulation and inhibition of receptor function. Swope SL, et al. **Mol Pharmacol** 1990 May; 37(5):758–66

Down–regulation of tryptamine binding sites following chronic molindone administration. A comparison with responses of dopamine and 5–hydroxytryptamine receptors. Nguyen TV, et al.
Naunyn Schmiedebergs Arch Pharmacol 1989 Oct; 340(4):366–71

Pretreatment with N–ethoxycarbonyl–2–ethoxy–1,2–dihydroquinoline accelerates the electroshock–induced decrease in density of beta–adrenoceptors but not functional downregulation. Pilc A, et al. **Neuropharmacology** 1990 May;29(5):469–73

Lysergic acid diethylamide (LSD) administration selectively downregulates serotonin2 receptors in rat brain. Buckholtz NS, et al. **Neuropsychopharmacology** 1990 Apr;3(2):137–48

Chronic treatment with (+/–)DOI, a psychotomimetic 5–HT2 agonist, downregulates 5–HT2 receptors in rat brain. McKenna DJ, et al. **Neuropsychopharmacology** 1989 Mar;2(1):81–7

Recovery of VIP/helodermin– and prostaglandin E1–stimulated adenylate cyclase activities in desensitized SUP–T1 human lymphoblasts. Robberecht P, et al.
Peptides 1989 Sep–Oct;10(5):1027–31

Involvement of tyrosine residues located in the carboxyl tail of the human beta 2–adrenergic receptor in agonist–induced down–regulation of the receptor. Valiquette M, et al.
Proc Natl Acad Sci U S A 1990 Jul;87(13):5089–93

Impaired down–regulation of pituitary dopamine receptors by estradiol in aged rats. Kochman K, et al.
Proc Soc Exp Biol Med 1989 Oct;192(1):23–6

Chronic carbamazepine down–regulates adenosine A2 receptors: studies with the putative selective adenosine antagonists PD115,199 and PD116,948. Elphick M, et al. **Psychopharmacology (Berl)** 1990;100(4):522–9

Evidence for cell type dependent mechanisms in agonist–induced down–regulation of beta–adrenoceptors. Rademaker B, et al.
Res Commun Chem Pathol Pharmacol 1990 Mar; 67(3):321–36

Expression of beta–nerve growth factor receptor mRNA in Sertoli cells downregulated by testosterone. Persson H, et al. **Science** 1990 Feb 9;247(4943):704–7

[Pharmacology of neurotransmitters. Current data on the central regulation of blood pressure] Bousquet P.
Therapie 1990 Mar–Apr;45 Suppl 2:171–5 **(Fre)**

[Serotoninergic 1A receptors (5–HT1A) and the regulation of blood pressure] Dabire H. **Therapie** 1990 Mar–Apr;45 Suppl 2:183–6 **(Fre)**

GENETICS

Down–regulation of c–myc and c–Ha–ras gene expression by tiazofurin in rat hepatoma cells. Olah E, et al.
Cancer Biochem Biophys 1990 Apr;11(2):107–17

Transcriptional down–regulation of the rearranged C–myc expression in murine cell hybrids between a plasmacytoma and a T–cell lymphoma. Oikawa T, et al. **Int J Cancer** 1990 Mar 15;45(3):468–74

IMMUNOLOGY

Comparison of effects of protein kinase C inhibitors on phorbol ester–induced CD4 down–regulation and augmentation of human immunodeficiency virus replication in human T cell lines. Hamamoto Y, et al.
Biochem Biophys Res Commun 1989 Oct 16;164(1):339–44

IgG2b–dependent down regulation of the LPS–induced PFC–response and its blockade by Fc gamma 2bR protein. Saito–Taki T, et al. **Int J Immunopharmacol** 1990; 12(3):279–87

Indomethacin in vitro and in vivo abolishes post–exercise suppression of natural killer cell activity in peripheral blood. Pedersen BK, et al. **Int J Sports Med** 1990 Apr; 11(2):127–31

PHYSIOLOGY

Down–regulation of endothelin binding sites in rat vascular smooth muscle cells. Roubert P, et al. **Am J Hypertens** 1990 Apr;3(4):310–2

Down–regulation of insulin receptors is related to insulin internalization. Geiger D, et al. **Exp Cell Res** 1989 Nov; 185(1):33–40

Expression of ras oncogene leads to down–regulation of protein kinase C. Haliotis T, et al. **Int J Cancer** 1990 Jun 15;45(6):1177–83

The k–complex vasoconstrictor response: evidence for central vasomotor downregulation in borderline hypertension. Heald S, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S28–9

Alpha 2– and beta 2–adrenoceptor downregulation in marathon runners. Schultz KD, et al.
J Hypertens Suppl 1989 Dec;7(6):S48–9

Desensitization of the beta–adrenergic receptor of the S49 murine lymphoma cell: mechanism of receptor loss and recovery. Rich KA, et al. **J Mol Endocrinol** 1989 Nov; 3(3):219–27

VIP–helodermin receptors in the murine virus–induced T lymphoma cell line BL/VL3 recover less rapidly than beta–adrenoceptors after down regulation. Damien C, et al. **J Recept Res** 1989–90;9(6):441–9

Downregulation of the early genomic growth factor response in neu oncogene–transformed cells. Sistonen L, et al.
Oncogene 1990 Jun;5(6):815–21

Mononuclear leukocyte glucocorticoid receptor binding characteristics and down–regulation in major depression. Wassef A, et al. **Psychoneuroendocrinology** 1990;15(1):59–68

DOWNREGULATION see DOWN–REGULATION (PHYSIOLOGY)

DOWN'S SYNDROME

Reactions of mothers and medical professionals to a film about Down syndrome. Cooley WC, et al.
Am J Dis Child 1990 Oct;144(10):1112–6

A different perspective on advanced parental age [letter] Rybicki B. **Am J Med Genet** 1989 Oct;34(2):298–9

Epstein–Barr–virus–related post–bone–marrow–transplant lymphoproliferative disease: association with cytomegalovirus infection and Down syndrome donor marrow. Patton DF, et al.
Am J Pediatr Hematol Oncol 1989 Winter;11(4):429–32

Ethical considerations in the life of a child with Down syndrome. Pueschel SM. **Issues Law Med** 1989 Summer; 5(1):87–99 (29 ref.)

Calcinosis cutis associated with syringomas: a transepidermal elimination disorder in a patient with Down syndrome. Maroon M, et al. **J Am Acad Dermatol** 1990 Aug;23(2 Pt 2):372–5

Cutaneous and ocular manifestations of Down syndrome. Scherbenske JM, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 2):933–8 (22 ref.)

Down syndrome (trisomy 21) in a pregnancy after intratubal embryo transfer (IVF/IT–ET) [letter] Würfel W, et al.
J In Vitro Fert Embryo Transf 1990 Feb;7(1):63–4

Atropine therapy and paralytic ileus in an infant. Marshall WF Jr, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov; 9(4):532–4

Nomenclature of amyloid A4 proteins and their precursors in Alzheimer's disease and Down's syndrome. Beyreuther K, et al. **Neurobiol Aging** 1990 Jan–Feb;11(1):66–8

Cogenital cardiovascular defects in infants with Down syndrome. Clark EB. **Pediatr Rev** 1989 Oct;11(4):99–100

BLOOD

Evaluation of a sensitive immunoenzymetric assay for maternal–serum alpha–fetoprotein screening. Comparison with radioimmunoassay. Bock JL. **Am J Clin Pathol** 1990 Mar;93(3):352–6

Down syndrome and 3,3',5'–triiodothyronine [letter] Lejeune J, et al. **Am J Dis Child** 1990 Jan;144(1):19

Erythrocyte–mediated scavenging of reactive oxygen metabolites generated by human polymorphonuclear leukocytes during phagocytosis: comparison between normal and Down's syndrome blood cells. Forslid J, et al. **Inflammation** 1989 Oct;13(5):543–51

Down's syndrome and thyroid disorder. Dinani S, et al.
J Ment Defic Res 1990 Apr;34 (Pt 2):187–93

Vitamin A gastrointestinal absorption in persons with Down's syndrome. Pueschel SM, et al. **J Ment Defic Res** 1990 Jun; 34 (Pt 3):269–75

Hypercarotenemia in children with Down's syndrome. Storm W. **J Ment Defic Res** 1990 Jun;34 (Pt 3):283–6

Oxidative stress in trisomy 21. A possible role in cataractogenesis. Brás A, et al.
Ophthalmic Paediatr Genet 1989 Dec;10(4):271–7

CEREBROSPINAL FLUID

Lumbar cerebrospinal fluid choline in healthy aging and in Down's syndrome. Schapiro MB, et al. **Arch Neurol** 1990 Sep;47(9):977–80

COMPLICATIONS

Changes in pulmonary tissue of patients with congenital heart disease and Down syndrome: a morphological and histochemical study. Hasegawa N, et al.

Acta Paediatr Jpn Overseas Ed 1990 Feb;32(1):60–6

Transient abnormal myelopoiesis and diffuse hepatic necrosis in Down's syndrome with prominent bleeding diathesis. Tsuda T, et al. **Acta Paediatr Scand** 1990 Feb;79(2):241–4

Atrioventricular canal in Down syndrome. Prevalence of associated cardiac malformations compared with patients without Down syndrome. Marino B, et al. **Am J Dis Child** 1990 Oct;144(10):1120–2

Ventricular septal defect in Down syndrome. Anatomic types and associated malformations. Marino B, et al. **Am J Dis Child** 1990 May;144(5):544–5

Transient myeloproliferative disorder of the Down type in the normal newborn. Ridgway D, et al. **Am J Dis Child** 1990 Oct;144(10):1117–9

Correction of atrioventricular septal defect. Results influenced by Down syndrome? [see comments] Vet TW, et al. **Am J Dis Child** 1989 Nov;143(11):1361–5 Comment in: Am J Dis Child 1990 Jul;144(7):752.

Absence of familial association between dementia of Alzheimer type and Down syndrome. Berr C, et al. **Am J Med Genet** 1989 Aug;33(4):545–50

Autoimmune thyroiditis associated with mild "subclinical" hypothyroidism in adults with Down syndrome: a comparison of patients with and without manifestations of Alzheimer disease. Percy ME, et al. **Am J Med Genet** 1990 Jun;36(2):148–54

Coexistence of celiac disease and Down syndrome. Similä S, et al. **Am J Ment Retard** 1990 Jul;95(1):120–2

Penetrating keratoplasty for keratoconus in Down's syndrome. Frantz JM, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):143–7

Transitory T-lymphoblastic leukemoid reaction in a neonate with Down syndrome. Fernandez de Castro M, et al. **Am J Pediatr Hematol Oncol** 1990 Spring;12(1):71–3

Management of Hirschsprung's disease in children with trisomy 21. Caniano DA, et al. **Am J Surg** 1990 Apr; 159(4):402–4

Is zinc deficiency a cause of subclinical hypothyroidism in Down syndrome? Napolitano G, et al. **Ann Genet** 1990; 33(1):9–15

Congenital macular coloboma in Down syndrome. Yamaguchi K, et al. **Ann Ophthalmol** 1990 Jun;22(6):222–3

Milialike idiopathic calcinosis cutis in Down's syndrome [letter] Smith ML, et al. **Arch Dermatol** 1989 Nov; 125(11):1586–7

Hypothyroidism due to auto-immune thyroiditis in a young child with Down's syndrome. Harris F, et al. **Arch Dis Child** 1967 Aug;42(224):449–52

Prognosis of Down's syndrome with acute leukaemia. Levitt GA, et al. **Arch Dis Child** 1990 Feb;65(2):212–6

Vesico-ureteric reflux in Down's syndrome: poor prognosis. Ahmed S. **Aust N Z J Surg** 1990 Feb;60(2):113–6

Ultrastructural and ultracytochemical differences between transient myeloproliferative disorder and megakaryoblastic leukaemia in Down's syndrome. Eguchi M, et al. **Br J Haematol** 1989 Nov;73(3):315–22

Methotrexate sensitivity in Down's syndrome: a hypothesis. Ueland PM, et al. **Cancer Chemother Pharmacol** 1990; 25(5):384–6

Primary skeletal Ewing's sarcoma in Down syndrome. Bridge JA, et al. **Cancer Genet Cytogenet** 1990 Jul 1;47(1):61–8

Health problems in children with Down's syndrome. Turner S, et al. **Child Care Health Dev** 1990 Mar–Apr;16(2):83–97

Congenital cardiovascular malformations in Chinese children with Down's syndrome. Lo NS, et al. **Chin Med J [Engl]** 1989 May;102(5):382–6 (19 ref.)

Down's syndrome and pityriasis rubra pilaris [letter] Holden CA, et al. **Clin Exp Dermatol** 1989 Jul;14(4):332

Down syndrome complicated by hemoglobin S/beta+ thalassemia. Atypical expression of coexistent disease [published erratum appears in Clin Pediatr (Phila) 1990 Jul;29(7):following Table of Contents] Melnyk AR, et al. **Clin Pediatr (Phila)** 1990 Jun;29(6):331–5

Reflex seizures are frequent in patients with Down syndrome and epilepsy. Guerrini R, et al. **Epilepsia** 1990 Jul–Aug; 31(4):406–17

Acute leukemia in Down's syndrome. Athale UH, et al. **Indian Pediatr** 1990 Jan;27(1):73–5

Down's syndrome: different distribution of congenital heart diseases between the sexes. Pinto FF, et al. **Int J Cardiol** 1990 May;27(2):175–8

Atlanto-axial subluxation in Down's syndrome. Shikata J, et al. **Int Orthop** 1989;13(3):187–92

Down syndrome and autoimmune chronic active hepatitis: satisfactory outcome with therapy. O'Mahony D, et al. **Ir J Med Sci** 1990 Jan;159(1):21–2

Cardiac surgery in Down syndrome. Sheehan A, et al. **Ir Med J** 1990 Jun;83(2):67–9

Episodic macroglossia in Down's syndrome. Padgham ND, et al. **J Laryngol Otol** 1990 Jun;104(6):494–6

Down's syndrome and fragile-X syndrome in a single patient. Collacott RA, et al. **J Ment Defic Res** 1990 Feb;34 (Pt 1):81–6

Dietary increase in serotonin reduces self-injurious behaviour in a Down's syndrome adult. Gedye A. **J Ment Defic Res** 1990 Apr;34 (Pt 2):195–203

Magnetic resonance imaging of moyamoya disease in a child with Down's syndrome. Storm W, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):507–10

Incidence of bronchial asthma in Down syndrome [letter; comment] Forni GL, et al. **J Pediatr** 1990 Mar;116(3):487–8 Comment on: J Pediatr 1989 May;114(5):781–7.

Left-sided cardiac obstruction in patients with Down syndrome [letter; comment] Marino B. **J Pediatr** 1989 Nov; 115(5 Pt 1):834–5 Comment on: J Pediatr 1989 Jan;114(1):79–86.

Down's syndrome and coeliac disease. Dias JA, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):41–3

Down's syndrome and celiac disease [letter] Granditsch G, et al. **J Pediatr Gastroenterol Nutr** 1990 Aug;11(2):279

Skeletal anomalies of the upper cervical spine in children with Down syndrome. Pueschel SM, et al. **J Pediatr Orthop** 1990 Sep–Oct;10(5):607–11

Instability of the upper cervical spine in Down syndrome. Tredwell SJ, et al. **J Pediatr Orthop** 1990 Sep–Oct; 10(5):602–6

Down's syndrome and the general practitioner. Howells G. **J R Coll Gen Pract** 1989 Nov;39(328):470–5 (68 ref.)

Atlantoaxial instability in Down syndrome—guidelines for screening and detection. Roy M, et al. **J R Soc Med** 1990 Jul;83(7):433–5

Down's syndrome, complete atrioventricular canal, and pulmonary vascular obstructive disease. Clapp S, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):115–21

Acute non-lymphocytic leukaemia versus transient leukaemoid reaction in fetuses with Down syndrome [letter; comment] Gaedicke G, et al. **Lancet** 1990 Apr 7; 335(8693):857 Comment on: Lancet 1990 Jan 13;335(8681):117.

Acute nonlymphocytic leukemia after transient myeloproliferative disorder in a patient with Down syndrome. Barnett PL, et al. **Med Pediatr Oncol** 1990; 18(5):347–53 (37 ref.)

Congophilic angiopathy [clinical conference] **N Y State J Med** 1990 Feb;90(2):64–8

Perinatal visceral fibrosis accompanying the megakaryoblastic leukemoid reaction of Down syndrome. Becroft DM, et al. **Pediatr Pathol** 1990;10(3):397–406

Symptomatic atlantoaxial instability associated with medical and rehabilitative procedures in children with Down syndrome. Msall ME, et al. **Pediatrics** 1990 Mar;85(3 Pt 2):447–9

A patient with Down's syndrome, mild hypothyroidism and alopecia. Scotson J. **Practitioner** 1989 Feb 8;233(1462):121

Differential diagnosis and treatment of depressive features in Down's syndrome: a case illustration. Storm W. **Res Dev Disabil** 1990;11(2):131–7

Early onset of presbyacusis in Down syndrome. Buchanan LH. **Scand Audiol** 1990;19(2):103–10

Periodontal disease in children with Down's syndrome. Modéer T, et al. **Scand J Dent Res** 1990 Jun;98(3):228–34

Follow-up study of atlanto-axial instability in Down's syndrome without separate odontoid process. Ohsawa T, et al. **Spine** 1989 Nov;14(11):1149–53

Otologic manifestations of Down's syndrome. Balkany TJ, et al. **Surg Forum** 1978;29:582–5

Down syndrome. Catalano RA. **Surv Ophthalmol** 1990 Mar–Apr;34(5):385–98 (208 ref.)

Congenital heart disease in Down's syndrome patients: a decade of surgical experience. Baciewicz FA Jr, et al. **Thorac Cardiovasc Surg** 1989 Dec;37(6):369–71

Acute megakaryoblastic leukemia in Down syndrome, following thrombocytopenia with antiplatelet antibody. Sumi S, et al. **Tohoku J Exp Med** 1990 May;161(1):65–7

[Prevention of neurological involvement as sequela of an atlanto-axial dislocation in persons with Down syndrome (letter)] Begeer JH, et al. **Ned Tijdschr Geneeskd** 1990 May 12;134(19):971–2 **(Dut)**

[Prevention of neurological involvement as a sequela of an atlanto-axial dislocation in persons with Down syndrome (letter)] Scholte FA, et al. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1016 **(Dut)**

[Dementia symptoms in Down's syndrome in a residentially treated group of mentally handicapped] Visser FE, et al. **Ned Tijdschr Geneeskd** 1990 Jun 9;134(23):1141–5 (Eng. Abstr.) **(Dut)**

[Anomalies in thyroid function in children with trisomy 21] Stoll C, et al. **J Genet Hum** 1989 Dec;37(4–5):389–93 (Eng. Abstr.) **(Fre)**

[Periodontitis associated with systemic diseases with qualitative deficiency of phagocyte function. II. Down's syndrome] Nicolò M, et al. **Minerva Stomatol** 1989 Aug; 38(8):905–9 (57 ref.) (Eng. Abstr.) **(Ita)**

[Changes in the cranio-cervical junction in Down's syndrome] Amato C, et al. **Radiol Med (Torino)** 1990 Jan–Feb;79(1–2):42–7 (Eng. Abstr.) **(Ita)**

[A child case of Down's syndrome with intestinal tuberculosis and tuberculous pleuritis] Yoshida N, et al. **Kansenshogaku Zasshi** 1989 Dec;63(12):1333–7 (Eng. Abstr.) **(Jpn)**

[Severe postoperative pulmonary hypertensive crisis in a case of ventricular septal defect with Down's syndrome] Soneda J, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun; 37(6):1247–50 (Eng. Abstr.) **(Jpn)**

[Duodenal atresia in a child with Down's syndrome] Karkowski MK. **Wiad Lek** 1990 Feb 1–15;43(3–4):146–9 (Eng. Abstr.) **(Pol)**

[Transient myeloproliferative syndrome or congenital leukemia in a newborn infant with Down syndrome?] Maszkiewicz W, et al. **Wiad Lek** 1989 May 15;42(10):685–8 (Eng. Abstr.) **(Pol)**

[Incidence of occipito-cervical instability in Down syndrome] Angulo Carrere MT, et al. **Arch Neurobiol (Madr)** 1990 Jan–Feb;53(1):33–7 (Eng. Abstr.) **(Spa)**

[Acute hemiplegia in childhood and alternating hemiconvulsions secondary to Moya-Moya disease. Report of a case associated with Down's syndrome] Cornelio-Nieto JO, et al. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):39–42 (Eng. Abstr.) **(Spa)**

[Elastosis perforans serpiginosa associated with Down's syndrome and sex-linked ichthyosis. Treatment with 13-cis-retinoic acid] Diaz F, et al. **Med Cutan Ibero Lat Am** 1989;17(4):209–14 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Simplification of biochemical screening for Down syndrome [letter] Cuckle HS, et al. **Am J Hum Genet** 1989 Dec; 45(6):979–80

Gestational age at maternal serum alpha-fetoprotein screening and the detection of Down syndrome [letter] Waller K, et al. **Am J Hum Genet** 1990 Sep;47(3):581–3

Down syndrome at birth not detected by first-trimester chorionic villus sampling. Bartels I, et al. **Am J Med Genet** 1989 Dec;34(4):606–7

Biparietal diameter/femur length ratio as predictor of trisomy 21 [letter] Kopelman JN, et al. **Am J Obstet Gynecol** 1990 May;162(5):1346

Maternal serum Down syndrome screening: unconjugated estriol is not useful. Macri JN, et al. **Am J Obstet Gynecol** 1990 Mar;162(3):672–3

Measurement of unconjugated estriol by enzyme-linked immunosorbent assay fails to show an association with Down syndrome [letter] Marci JN, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1634–5

Femur length shortening in the detection of Down syndrome: is prenatal screening feasible? Nyberg DA, et al. **Am J Obstet Gynecol** 1990 May;162(5):1247–52

Maternal serum alpha-fetoprotein screening for fetal Down syndrome in the United States: results of a survey. Palomaki GE, et al. **Am J Obstet Gynecol** 1990 Feb;162(2):317–21

Prenatal screening for Down syndrome with maternal serum human chorionic gonadotropin levels. Petrocik E, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1168–73

Instability of performance on cognitive tests in infants and young children with Down's syndrome. Wishart JG, et al. **Br J Educ Psychol** 1990 Feb;60 (Pt 1):10–22

Ultrasound fetal femur length measurement in the screening for Down's syndrome. Cuckle H, et al. **Br J Obstet Gynaecol** 1989 Dec;96(12):1373–8

Is ultrasound of any value in screening for Down's syndrome? Tonge M, et al. **Br J Obstet Gynaecol** 1989 Dec; 96(12):1369–72 (25 ref.)

Orofacial dyskinesia in Down's syndrome. Dinan TG, et al. **Br J Psychiatry** 1990 Jul;157:131–2

Maternal serum markers in screening for Down syndrome. Nørgaard-Pedersen B, et al. **Clin Genet** 1990 Jan; 37(1):35–43

Biochemical screening for chromosome disorders. Smithells D. **Dev Med Child Neurol** 1990 Feb;32(2):172–4

Immunochemical quantification of Cu/Zn superoxide dismutase in prenatal diagnosis of Down's syndrome. Porstmann T, et al. **Hum Genet** 1990 Aug;85(3):362–6

Prenatal detection of Down syndrome in younger women. Singh DN. **Indian J Pediatr** 1989 Jul–Aug;56(4):458–62

The circus dwarf—a new sign for early diagnosis of Down's syndrome [letter] Puliyel JM, et al. **Indian Pediatr** 1989 Oct;26(10):1062–3

A longitudinal study of language acquisition in autistic and Down syndrome children. Tager-Flusberg H, et al. **J Autism Dev Disord** 1990 Mar;20(1):1–21

Alphafetoprotein in midtrimester Down's syndrome fetal serum. Seller MJ. **J Med Genet** 1990 Apr;27(4):240–3

Speech dysfluency and manual specialization in Down's syndrome. Devenny DA, et al. **J Ment Defic Res** 1990 Jun;34 (Pt 3):253–60

People with Down's syndrome can be distinguished on the basis of cholinergic dysfunction. Sacks B, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1294–5

Alpha-fetoprotein in obstetrics. Experience of a prenatal diagnosis center. Cariati E, et al. **J Nucl Med Allied Sci** 1989 Jul–Sep;33(3 Suppl):72–6

Routine maternal serum alpha-fetoprotein measurement in 210 pregnancies. Garzarelli S. **J Nucl Med Allied Sci** 1989 Jul–Sep;33(3 Suppl):101–2

Hypoplasia of the middle phalanx of the fifth digit. A feature of the second trimester fetus with Down's syndrome. Benacerraf BR, et al. **J Ultrasound Med** 1990 Jul; 9(7):389–94

Fetal femur length to detect trisomy 21. A reappraisal. LaFollette L, et al. **J Ultrasound Med** 1989 Dec; 8(12):657–60

Second trimester hyperechogenicity in the lower abdomen of two fetuses with trisomy 21: is there a correlation? Persutte WH. **JCU** 1990 Jun;18(5):425–8

Prenatal diagnosis of acute non-lymphoblastic leukaemia in Down syndrome [letter] [see comments] Zerres K, et al. **Lancet** 1990 Jan 13;335(8681):117 Comment in: Lancet 1990 Apr 7;335(8693):857.

Current techniques of prenatal screening for Down syndrome. Cardwell MS, et al. **Mo Med** 1990 May; 87(5):295–7

The current role of sonography in the detection of Down syndrome [letter; comment] Benacerraf BR, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):472 Comment on:

Obstet Gynecol 1989 Oct;74(4):620–3.

Fetal biometry as a screening tool for the detection of chromosomally abnormal pregnancies. Dicke JM, et al. **Obstet Gynecol** 1989 Nov;74(5):726–9

The current role of sonography in the detection of Down syndrome [see comments] Hill LM, et al. **Obstet Gynecol** 1989 Oct;74(4):620–3 Comment in: Obstet Gynecol 1990 Mar;75(3 Pt 1):472.

Prenatal sonographic findings of Down syndrome: review of 94 cases. Nyberg DA, et al. **Obstet Gynecol** 1990 Sep; 76(3 Pt 1):370–7

Sonographic measurements and ratios in fetuses with Down syndrome [letter; comment] Perrella RR, et al. **Obstet Gynecol** 1989 Oct;74(4):685–6 Comment on: Obstet Gynecol 1989 Apr;73(4):644–6.

First-trimester maternal serum biochemical indicators in Down syndrome. Brock DJ, et al. **Prenat Diagn** 1990 Apr; 10(4):245–51

Amniotic fluid enzymes in pregnancies with trisomy 21. Giddy MJ, et al. **Prenat Diagn** 1989 Nov;9(11):769–75

The ethics of using modern technology for detecting Down's syndrome [letter; comment] Churchman J. **Radiogr Today** 1989 Jul;55(626):25 Comment on: Radiogr Today 1989 Jun;55(625):26–7.

Detection of Down's syndrome in low risk patients [see comments] Desai G. **Radiogr Today** 1989 Jun;55(625):26–7 Comment in: Radiogr Today 1989 Jul;55(626):25.

Can sonographers reliably identify anatomic features associated with Down syndrome in fetuses? Benacerraf BR, et al. **Radiology** 1989 Nov;173(2):377–80

Femur length in the US prediction of trisomy 21 and other chromosomal abnormalities. Grist TM, et al. **Radiology** 1990 Mar;174(3 Pt 1):837–9

Dementia and depression in elders with mental retardation: a pilot study. Harper DC, et al. **Res Dev Disabil** 1990; 11(2):177–98

Down's syndrome: current screening techniques. White RS 3rd. **South Med J** 1989 Dec;82(12):1483–6

[Does systemic determination of maternal serum alpha-1-fetoprotein have any value?] Muller F, et al. **Arch Fr Pediatr** 1990 Jun–Jul;47(6):473–4 **(Fre)**

[Chorionic villi sampling: experience of the initial 500 samples] Donner C, et al. **Rev Med Brux** 1990 Jun; 11(6):211–5 (Eng. Abstr.) **(Fre)**

[Prenatal ultrasound diagnosis of complex heart abnormality in routine screening] Kronich W, et al. **Ultraschall Med** 1990 Feb;11(1):48–50 (Eng. Abstr.) **(Ger)**

[Early ultrasonic amniocentesis. 147 cases] Darconza G, et al. **Minerva Ginecol** 1990 Mar;42(3):55–8 (Eng. Abstr.) **(Ita)**

[Down's syndrome now detected by ultrasonic examination] Bergsjø P. **Tidsskr Nor Laegeforen** 1990 Feb 28; 110(6):691–3 (7 ref.) **(Nor)**

[Prenatal ultrasonic diagnosis and Down's syndrome] Salvesen KA, et al. **Tidsskr Nor Laegeforen** 1990 Feb 28; 110(6):701–4 (Eng. Abstr.) **(Nor)**

[Ultrasonic diagnosis of Down's syndrome (letter)] Wold P. **Tidsskr Nor Laegeforen** 1990 Apr 30;110(11):1409 **(Nor)**

DRUG THERAPY

Increased plasma and erythrocyte selenium concentrations but decreased erythrocyte glutathione peroxidase activity after selenium supplementation in children with Down syndrome. Annerén G, et al. **Acta Paediatr Scand** 1989 Nov; 78(6):879–84

The effects of multivitamins and minerals on children with Down syndrome. Bidder RT, et al. **Dev Med Child Neurol** 1989 Aug;31(4):532–7

EMBRYOLOGY

Neurogenesis of the basal forebrain in euploid and trisomy 16 mice: an animal model for developmental disorders in Down syndrome. Sweeney JE, et al. **Neuroscience** 1989; 31(2):413–25

Fetal pyelectasis: a possible association with Down syndrome. Benacerraf BR, et al. **Obstet Gynecol** 1990 Jul; 76(1):58–60

ENZYMOLOGY

Red cell superoxide dismutase, glutathione peroxidase and catalase in Down syndrome patients with and without manifestations of Alzheimer disease. Percy ME, et al. **Am J Med Genet** 1990 Apr;35(4):459–67

Electrophysiological analysis of cultured fetal mouse dorsal root ganglion neurons transgenic for human superoxide dismutase-1, a gene in the Down syndrome region of chromosome 21. Ault B, et al. **Brain Res** 1989 Sep 11; 497(1):191–4

Sensitive enzyme immunoassay for human Cu/Zn superoxide dismutase. Kurobe N, et al. **Clin Chim Acta** 1990 Jan 31; 187(1):11–20

EPIDEMIOLOGY

Lack of seasonal- or temporal-spatial clustering of Down's syndrome births in Michigan. Stark CR, et al. **Am J Epidemiol** 1967 Jul;86(1):199–213

Anorectal malformations and Down syndrome. Zlotogora J, et al. **Am J Med Genet** 1989 Nov;34(3):330–1

Epidemiological investigation of radiological effects in high background radiation areas of Yangjiang, China. Wei LX, et al. **J Radiat Res (Tokyo)** 1990 Mar;31(1):119–36

Maternal age-specific incidence of Down's syndrome in Malaysian neonates. Boo NY, et al. **J Singapore Paediatr Soc** 1989;31(3–4):138–42

Down's syndrome and fertility in older women [letter] Dolk H, et al. **Lancet** 1990 Aug 25;336(8713):511

Down's syndrome—factors influencing its incidence. Ho LY. **Singapore Med J** 1989 Jun;30(3):238–41 (26 ref.)

Incidence of Down's syndrome in a large Malaysian maternity hospital over an 18 month period. Hoe TS, et al. **Singapore Med J** 1989 Jun;30(3):246–8

[Epidemiologic study of the to-be-expected numbers of older patients with Down syndrome in the years 1990–2015 (letter)] Cremers MJ. **Ned Tijdschr Geneeskd** 1989 Jul 22; 133(29):1468–9 **(Dut)**

[Prognosis of the frequency of Down's syndrome in relation to the median age of the parturient and the use of this indicator] Chebotarev AN, et al. **Gig Sanit** 1990 Feb; (2):49–51 **(Rus)**

ETIOLOGY

[Cases of Down's syndrome in children of young parents with chronic inflammatory genital diseases and secondary disorders of spermatogenesis] Markarian DS, et al. **Akush Ginekol (Mosk)** 1990 May;(5):38–41 (Eng. Abstr.) **(Rus)**

GENETICS

Molecular definition of a region of chromosome 21 that causes features of the Down syndrome phenotype. Korenberg JR, et al. **Am J Hum Genet** 1990 Aug; 47(2):236–46

Distal deletion of chromosome 1q in an adult. Halal F, et al. **Am J Med Genet** 1990 Mar;35(3):379–82

Direct electronic radioisotope detection yields improved gene dosage analysis. Chettouh Z, et al. **Biotechniques** 1990 Aug;9(2):162–4

Trisomy 21 in transient myeloproliferative disorder. Faed MJ, et al. **Cancer Genet Cytogenet** 1990 Sep;48(2):259–64 (19 ref.)

Consanguinity and the genetic control of Down syndrome. Hamamy HA, et al. **Clin Genet** 1990 Jan;37(1):24–9

Rate of recombination of chromosomes 21 in parents of children with Down syndrome. Hamers AJ, et al. **Clin Genet** 1990 Jun;37(6):463–9

Molecular genetic approach to the characterization of the "Down syndrome region" of chromosome 21. McCormick MK, et al. **Genomics** 1989 Aug;5(2):325–31

Expression of the human ETS-2 oncogene in normal fetal tissues and in the brain of a fetus with trisomy 21. Baffico M, et al. **Hum Genet** 1989 Oct;83(3):295–6

Isochromosome not translocation in trisomy 21q21q. Grasso M, et al. **Hum Genet** 1989 Dec;84(1):63–5

Factual, statistical and logical issues in the search for a paternal age effect for Down syndrome [letter] Hook EB, et al. **Hum Genet** 1990 Aug;85(3):387–8

Distribution of meiotic recombination along nondisjunction chromosomes 21 in Down syndrome determined using cytogenetics and RFLP haplotyping. Meijer H, et al. **Hum Genet** 1989 Oct;83(3):280–6

Disomic homozygosity and leukemia in Down's syndrome [letter] Sansone R, et al. **Hum Genet** 1990 Aug;85(3):386

Nucleolar organizer region heteromorphism associated with trisomy-21: a risk factor for non-disjunction? Murthy DS, et al. **Indian J Exp Biol** 1989 Oct;27(10):864–7

Segregation of acrocentric chromosome association in familial dicentric Robertsonian translocation t(14p;22p), aneuploidy (trisomy-21) and heteromorphism. Murthy DS, et al. **Indian J Exp Biol** 1990 Jun;28(6):511–5

The prevalence of taurodontism in Down's syndrome. Bell J, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):467–76

Atlanto-occipital instability in Down's syndrome. Collacott RA, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):499–505

Down syndrome clinical symptoms are manifested in transfected cells and transgenic mice overexpressing the human Cu/Zn-superoxide dismutase gene. Groner Y, et al. **J Physiol (Paris)** 1990;84(1):53–77

Parkinsonism and Down syndrome [letter] Sturman SG, et al. **Lancet** 1989 Oct 14;2(8668):920–1

Expression of the Alzheimer amyloid precursor gene transcripts in the human brain. Neve RL, et al. **Neuron** 1988 Oct;1(8):669–77

Chromosomal protein HMG-14 gene maps to the Down syndrome region of human chromosome 21 and is overexpressed in mouse trisomy 16. Pash J, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3836–40

Study of restriction fragment length polymorphism in the cystatin C gene of elderly patients with dementia and aged Down's syndrome patients. Palsdottir A, et al. **Prog Clin Biol Res** 1989;317:235–9

Alzheimer's disease and Down syndrome. Schweber MS. **Prog Clin Biol Res** 1989;317:247–67 (78 ref.)

[The placenta and trisomies 13, 18, 21] Labbé S, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989;18(8):989–96 (Eng. Abstr.) **(Fre)**

[Pseudokeratoconus in trisomy 21 and posterior polymorphous corneal dystrophy] Lang GK, et al. **Klin Monatsbl Augenheilkd** 1989 Aug;195(2):95–9 (Eng. Abstr.) **(Ger)**

[Down's syndrome caused by robertsonian translocation with cystic hygroma] Abrate M, et al. **Pathologica** 1989 Nov-Dec;81(1076):647–50 (Eng. Abstr.) **(Ita)**

[Chromosome fragility as the cause of mental retardation] Fortun B. **Tidsskr Nor Laegeforen** 1989 Sep 10;109(25):2587 **(Nor)**

[Identification of families with increased risk of Down's syndrome caused by translocation of chromosome 9] Rogóyski A, et al. **Pediatr Pol** 1989 Apr;64(4):209–15 (Eng. Abstr.) **(Pol)**

[A case of familial paracentric inversion associated with Down's syndrome. 47, XX, +21, inv (1) (p22p36)] Alonso Villa MJ, et al. **An Esp Pediatr** 1990 Mar;32(3):257–8 **(Spa)**

IMMUNOLOGY

Sequential flow cytometric analysis of cell-cycle related changes in LFA-1 (CD18/CD11a) expression by trisomy 21 (Down's syndrome) lymphoblastoid cells. McMurray BP, et al. **Cell Tissue Kinet** 1989 May;22(3):223–33

Immunoregulatory CD4+ CD45R+ suppressor/inducer T lymphocyte subsets and impaired cell-mediated immunity in patients with Down's syndrome. Raziuddin S, et al. **Clin Exp Immunol** 1990 Jan;79(1):67–71

Down syndrome (trisomy 21) thymuses have a decreased proportion of cells expressing high levels of TCR alpha, beta and CD3. A possible mechanism for diminished T cell function in Down syndrome. Murphy M, et al. **Clin Immunol Immunopathol** 1990 Jun;55(3):453–67

LAK activity is inducible in blood mononuclear cells from human fetus. Cossarizza A, et al. **Immunol Lett** 1990 May; 24(2):137–40

Intradermal hepatitis B vaccination for mentally retarded patients. Hayashi J, et al. **J Infect** 1989 Sep;19(2):119–25

Celiac disease in Down's syndrome: considerations on the role of histocompatibility antigens [letter] Iacono G, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):273

T-cell response to phorbol ester PMA and calcium ionophore A23187 in Down's syndrome. Bertotto A, et al. **Scand J Immunol** 1989 Nov;30(5):583–6

Fetal thymic differentiation in Down's syndrome. Cossarizza A, et al. **Thymus** 1989;14(1–3):163–70

Immunogenicity of a recombinant DNA hepatitis B vaccine in institutionalized patients with Down's syndrome. Van Damme P, et al. **Vaccine** 1990 Mar;8 Suppl:S53–5; discussion S60–2

[Response to recombinant DNA antihepatitis B vaccine in mentally retarded patients with Down's syndrome. A controlled study] García Bengoechea M, et al. **Med Clin (Barc)** 1990 Apr 14;94(14):528–30 (Eng. Abstr.) **(Spa)**

METABOLISM

The prevalence of amyloid (A4) protein deposits within the cerebral and cerebellar cortex in Down's syndrome and Alzheimer's disease. Mann DM, et al. **Acta Neuropathol (Berl)** 1990;80(3):318–27

Correlation between the effects of rT3 and IMP dehydrogenase inhibitors on normal and trisomic 21 lymphocyte cultures. Peeters M, et al. **Ann Genet** 1989; 32(4):211–3

Down's syndrome fibroblasts exhibit enhanced inositol uptake. Fruen BR, et al. **Biochem J** 1990 Aug 15; 270(1):119–23

Cyclic guanosine monophosphate metabolism in human amnion cells trisomic for chromosome 21. Karlsson JO, et al. **Biol Neonate** 1990;57(6):343–8

Phosphorylation of Tau proteins: a major event during the process of neurofibrillary degeneration. A comparative study between Alzheimer's disease and Down's syndrome. Flament S, et al. **Brain Res** 1990 May 14;516(1):15–9

Developmental expression of the amyloid precursor protein, growth-associated protein 43, and somatostatin in normal and trisomy 16 mice. O'Hara BF, et al. **Brain Res Dev Brain Res** 1989 Oct 1;49(2):300–4

Developmental immunohistochemistry of membrane proteins in the brain coded by a gene on human chromosome 21. Takashima S, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):295–8

Increased number of somatostatin-immunoreactive neurons in primary cultures of trisomy 16 mouse neocortex. Caserta MT, et al. **Brain Res Mol Brain Res** 1990 Apr;7(3):269–72

Effect of carminomycin on the viability of fibroblasts from patients with regular trisomy 21. Rózga B, et al. **Free Radic Res Commun** 1990;8(2):79–83

Regional cerebral glucose metabolism is normal in young adults with Down syndrome. Schapiro MB, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):199–206

Homocysteine, factor VII and antithrombin III in subjects with different gene dosage for cystathionine beta-synthase. Brattström L, et al. **J Inherited Metab Dis** 1989; 12(4):475–82

Immunocytochemical profile of neurofibrillary tangles in Down's syndrome patients of different ages. Mann DM, et al. **J Neurol Sci** 1989 Sep;92(2–3):247–60

Defective gallium-transferrin binding in Alzheimer disease and Down syndrome: possible mechanism for accumulation of aluminium in brain [see comments] Farrar G, et al. **Lancet** 1990 Mar 31;335(8692):747–50 Comment in: Lancet 1990 Jun 2;335(8701):1348–50.

Amyloid A4 protein and its precursor in Down's syndrome and Alzheimer's disease [letter; comment] Heinrich G. **N Engl J Med** 1989 Oct 26;321(17):1197 Comment on: N

Engl J Med 1989 Jun 1;320(22):1446–52.
Cerebral amyloidosis, ageing and Alzheimer's disease; a contribution from studies on Down's syndrome. Mann DM. **Neurobiol Aging** 1989 Sep–Oct;10(5):397–9; discussion 412–4
Vitamin E concentrations in human brain of patients with Alzheimer's disease, fetuses with Down's syndrome, centenarians, and controls. Metcalfe T, et al. **Neurochem Res** 1989 Dec;14(12):1209–12
Cerebral cortical calbindin D28K and parvalbumin neurones in Down's syndrome. Kobayashi K, et al. **Neurosci Lett** 1990 May 18;113(1):17–22
Alzheimer patients and Down patients: cerebral preamyloid deposits differ ultrastructurally and histochemically from the amyloid of senile plaques. Verga L, et al. **Neurosci Lett** 1989 Nov 6;105(3):294–9
Brain interleukin 1 and S–100 immunoreactivity are elevated in Down syndrome and Alzheimer disease. Griffin WS, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7611–5
Cerebral extracellular preamyloid deposits in Alzheimer's disease, Down syndrome and nondemented elderly individuals. Tagliavini F, et al. **Prog Clin Biol Res** 1989; 317:1001–5
[The action of ionizing radiation on DNA replication in the cells of a healthy human subject and of a patient with Down's syndrome] Barenfel'd LS, et al. **Tsitologiia** 1989 Nov;31(11):1377–84 (Eng. Abstr.) **(Rus)**

MORTALITY

Mortality and survival in Down syndrome in Taiwan. Hou JW, et al. **Acta Paediatr Sin** 1989 May–Jun;30(3):172–9
Down syndrome [letter] Barclay AM. **Am Fam Physician** 1990 Mar;41(3):769
Childhood deaths in Down's syndrome. Survival curves and causes of death from a total population study in Queensland, Australia, 1976 to 1985. Bell JA, et al. **J Med Genet** 1989 Dec;26(12):764–8
Recent trends in incidence, morbidity and survival in Down's syndrome. McGrother CW, et al. **J Ment Defic Res** 1990 Feb;34 (Pt 1):49–57
Declining mortality from Down syndrome—no cause for complacency [editorial] [see comments] **Lancet** 1990 Apr 14;335(8694):888–9 Comment in: Lancet 1990 May 26;335(8700):1278. Comment in: Lancet 1990 May 26;335(8700):1278–9. Comment in: Lancet 1990 Jun 16;335(8703):1470.
Survival trends in Down syndrome [letter; comment] Mastroiacovo P, et al. **Lancet** 1990 May 26; 335(8700):1278–9 Comment on: Lancet 1990 Apr 14;335(8694):888–9.

PATHOLOGY

Down's syndrome and Alzheimer's disease: dendritic spine counts in the hippocampus. Ferrer I, et al. **Acta Neuropathol (Berl)** 1990;79(6):680–5
Brain atrophy in 18 patients with Down syndrome: a CT study. Pearlson GD, et al. **AJNR** 1990 Jul–Aug;11(4):811–6
Optic disk elevation in Down's syndrome. Catalano RA, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):28–32
Anomalous brain morphology on magnetic resonance images in Williams syndrome and Down syndrome. Jernigan TL, et al. **Arch Neurol** 1990 May;47(5):529–33
Selective retardation of the development of the basal forebrain cholinergic and pontine catecholaminergic nuclei in the brain of trisomy 16 mouse, an animal model of Down's syndrome. Kiss J, et al. **Brain Res Dev Brain Res** 1989 Dec 1;50(2):251–64
Thymic extracellular matrix in Down's syndrome. Fonseca EC, et al. **Braz J Med Biol Res** 1989;22(8):971–4
Dermal fibroblasts from Down's syndrome patients share a cycloheximide–induced deficiency in collagen adhesion responses with normal aging cells. Flickinger KS, et al. **Exp Cell Res** 1990 Aug;189(2):189–201
Growth properties and in vitro life span of Alzheimer disease and Down syndrome fibroblasts. A blind study. Carmeliet G, et al. **Mech Ageing Dev** 1990 Mar 31;53(1):17–33
Familial Alzheimer's disease: genetic analysis related to disease heterogeneity, Down syndrome and human brain evolution. Schapiro MB, et al. **Neurobiol Aging** 1989 Sep–Oct;10(5):435–6; discussion 446–8
Aging and brain weight in Down's syndrome [letter; comment] Pearlson GD, et al. **Neurology** 1989 Oct; 39(10):1407–8 Comment on: Neurology 1987 Aug;37(8):1424–7.
Early senile plaques in Down's syndrome brains show a close relationship with cell bodies of neurons. Allsop D, et al. **Neuropathol Appl Neurobiol** 1989 Nov–Dec;15(6):531–42
A study of the morphology and distribution of amyloid beta protein immunoreactive plaque and related lesions in the brains of Alzheimer's disease and adult Down's syndrome. Ikeda S, et al. **Prog Clin Biol Res** 1989;317:313–23
Immunocytochemical and lectin histochemical studies of plaques and tangles in Down's syndrome patients at different ages. Mann DM, et al. **Prog Clin Biol Res** 1989; 317:849–56
[Transient myeloproliferation and acute myeloid leukemia in infants with Down's syndrome] Creutzig U, et al. **Klin Padiatr** 1990 Jul–Aug;202(4):253–7 (Eng. Abstr.) **(Ger)**
[Cytoskeletal changes in Alzheimer's disease and other neurodegenerative disorders] Astarloa R, et al. **Neurologia** 1990 Feb;5(2):52–61 (147 ref.) **(Spa)**

PHYSIOPATHOLOGY

Long–bone growth in fetuses with Down syndrome. FitzSimmons J, et al. **Am J Obstet Gynecol** 1989 Nov; 161(5):1174–7
Relation of EEG alpha background to cognitive function, brain atrophy, and cerebral metabolism in Down's syndrome. Age–specific changes. Devinsky O, et al. **Arch Neurol** 1990 Jan;47(1):58–62
The natural history of dementia in Down's syndrome. Evenhuis HM. **Arch Neurol** 1990 Mar;47(3):263–7
Brainstem auditory–evoked responses with and without sedation in autism and Down's syndrome. Sersen EA, et al. **Biol Psychiatry** 1990 Apr 15;27(8):834–40
Sleep in the Down syndrome. Hamaguchi H, et al. **Brain Dev** 1989;11(6):399–406
The role of altered sodium currents in action potential abnormalities of cultured dorsal root ganglion neurons from trisomy 21 (Down syndrome) human fetuses. Caviedes P, et al. **Brain Res** 1990 Mar 5;510(2):229–36
Electrical membrane properties of cultured dorsal root ganglion neurons from trisomy 19 mouse fetuses: a comparison with the trisomy 16 mouse fetus, a model for Down syndrome. Caviedes P, et al. **Brain Res** 1990 Mar 12;511(1):169–72
Reproduction in Down's syndrome. Shobha Rani A, et al. **Int J Gynaecol Obstet** 1990 Jan;31(1):81–6 (40 ref.)
A chiropractic perspective on atlantoaxial instability in Down's syndrome. La Francis ME. **J Manipulative Physiol Ther** 1990 Mar–Apr;13(3):157–60 (22 ref.)
A study of digestive absorption in four cases of Down's syndrome. Down's syndrome, malnutrition, malabsorption, and Alzheimer's disease. Abalan F, et al. **Med Hypotheses** 1990 Jan;31(1):35–8
Aging and brain weight in Down's syndrome [letter] Solitare GB. **Neurology** 1990 Apr;40(4):729

PREVENTION & CONTROL

Factors influencing the uptake of screening for open neural–tube defects and amniocentesis to test for Down's syndrome. Marteau TM, et al. **Br J Obstet Gynaecol** 1989 Jun;96(6):739–41
Biparietal diameter/femur length ratio, cephalic index, and femur length measurements: not reliable screening techniques for Down syndrome. Shah YG, et al. **Obstet Gynecol** 1990 Feb;75(2):186–8
Down syndrome screening in women under 35 with maternal serum hCG. Suchy SF, et al. **Obstet Gynecol** 1990 Jul; 76(1):20–4
The prevention of Down's syndrome in the south western region of England 1975–1985. Wilson N, et al. **West Engl Med J** 1990 Mar;105(1):15–7
[Maternal serum AFP determination in the 2d trimester: a suitable screening method for detection of fetuses with Down's syndrome in young females?] Mühlhaus K, et al. **Z Geburtshilfe Perinatol** 1990 Mar–Apr;194(2):70–4 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Mothers' use of substantive deixis and nouns with their children with Down syndrome: some discrepant findings. Cardoso–Martins C, et al. **Am J Ment Retard** 1990 May; 94(6):633–7
Affect and attention in children with Down syndrome. Kasari C, et al. **Am J Ment Retard** 1990 Jul;95(1):55–67
Joint attention of six–month–old Down syndrome and preterm infants: I. Attention to toys and mother. Landry SH, et al. **Am J Ment Retard** 1990 Mar;94(5):488–98
Maternal directive behavior revisited. Mahoney G, et al. **Am J Ment Retard** 1990 Jan;94(4):398–406
Conversational analyses of males with fragile X, Down syndrome, and autism: comparison of the emergence of deviant language. Sudhalter V, et al. **Am J Ment Retard** 1990 Jan;94(4):431–41
Effects of background event rate on sustained attention of mentally retarded and nonretarded adults. Tomporowski PD, et al. **Am J Ment Retard** 1990 Mar;94(5):499–508
Anxiety and defence strategies in mothers of children with different disabilities. Ryde–Brandt B. **Br J Med Psychol** 1990 Jun;63 (Pt 2):183–92
Mania in Down's syndrome [letter] Haeger B. **Br J Psychiatry** 1990 Jul;157:153
Major depression in Down's syndrome. Warren AC, et al. **Br J Psychiatry** 1989 Aug;155:202–5
Seeing either the forest or the trees: dissociation in visuospatial processing. Bihrle AM, et al. **Brain Cogn** 1989 Sep;11(1):37–49
Social life of school children with Down's syndrome. Sloper P, et al. **Child Care Health Dev** 1990 Jul–Aug;16(4):235–51
Affective sharing in the context of joint attention interactions of normal, autistic, and mentally retarded children. Kasari C, et al. **J Autism Dev Disord** 1990 Mar;20(1):87–100
Comprehension of syntactically indicated sequence by Down's syndrome and other mentally retarded adults. Kernan KT. **J Ment Defic Res** 1990 Apr;34 (Pt 2):169–78
Progressive decline of picture naming in an aging Down syndrome man with dementia. Kledaras JB, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1091–100
Reaction times of Down syndrome and other mentally retarded individuals. Mack P, et al. **Percept Mot Skills** 1989 Oct;69(2):430
Living conditions of an adolescent population with Down's syndrome during a one–year period. Goldstein H. **Res Dev Disabil** 1989;10(4):399–412
Dichotic stimulation and mental retardation. Mosley JL, et al. **Res Dev Disabil** 1990;11(2):139–63 (140 ref.)
The acquisition of adaptive behavior in infancy: developmentally at–risk infants. Carter AS, et al. **Semin Perinatol** 1989 Dec;13(6):474–81 (37 ref.)
[Anorexia nervosa and Down syndrome] Räder K, et al. **Prax Kinderpsychol Kinderpsychiatr** 1989 Nov;38(9):343–6 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

The skull in mongolism. Burwood RJ, et al. **Clin Radiol** 1973 Oct;24(4):475–80
Degenerative changes in the cervical spine in Down's syndrome. Tangerud A, et al. **J Ment Defic Res** 1990 Apr; 34 (Pt 2):179–85
Serial quantitative CT analysis of brain morphometrics in adult Down's syndrome at different ages. Schapiro MB, et al. **Neurology** 1989 Oct;39(10):1349–53
The relationship between enlargement of the temporal horns of the lateral ventricles and dementia in aging patients with Down syndrome. LeMay M, et al. **Neuroradiology** 1990; 32(2):104–7

RADIONUCLIDE IMAGING

Cerebral metabolic pattern in young adult Down's syndrome subjects: altered intercorrelations between regional rates of glucose utilization. Horwitz B, et al. **J Ment Defic Res** 1990 Jun;34 (Pt 3):237–52

REHABILITATION

Always trainable? never educable? Updating educational expectations concerning children with Down syndrome. Rynders JE, et al. **Am J Ment Retard** 1990 Jul;95(1):77–83
A recruitment–of–praise package to increase productivity levels of developmentally handicapped workers. Hildebrand RG, et al. **Behav Modif** 1990 Jan;14(1):97–113
New families for Down's children [letter; comment] Linforth H, et al. **Br J Hosp Med** 1989 Nov;42(5):427 Comment on: Br J Hosp Med 1989 May;41(5):419.
Asymmetries in intermanual transfer of training and motor overflow in adults with Down's syndrome and nonhandicapped children. Edwards JM, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):959–66
Reproductive health concerns in Down syndrome. A report of eight cases. Elkins TE, et al. **J Reprod Med** 1990 Jul; 35(7):745–50
Improving communication in Down syndrome [letter; comment] Gompertz J. **Lancet** 1990 May 26;335(8700):1278 Comment on: Lancet 1990 Apr 14;335(8694):888–9.
Intellectual and adaptive functioning in individuals with Down syndrome in relation to age and environmental placement. Brown FR 3d, et al. **Pediatrics** 1990 Mar;85(3 Pt 2):450–2
[Early education and social rehabilitation of young trisomic children] Cuilleret M. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(4):343–7 (Eng. Abstr.) **(Fre)**
[A global approach to the dental care of children and young adults with trisomy 21. I. The dental and orofacial characteristics of Down's syndrome] Radovich F, et al. **Minerva Stomatol** 1989 Oct;38(10):1095–103 (31 ref.) (Eng. Abstr.) **(Ita)**
[A global approach to the dental care of children and young adults with trisomy 21. II. The planning of the preventive and interceptive care of Down's syndrome patients] Radovich F, et al. **Minerva Stomatol** 1989 Oct; 38(10):1105–16 (24 ref.) (Eng. Abstr.) **(Ita)**

SURGERY

Tongue reduction surgery [letter; comment] **ASHA** 1990 Jun–Jul;32(6–7):98–9 Comment on: ASHA 1990 Jan;32(1):59–61.
Tongue reduction surgery. Efficacy and relevance to the profession [see comments] Lynch JI. **ASHA** 1990 Jan; 32(1):59–61 Comment in: ASHA 1990 Jun–Jul;32(6–7):98–9.

THERAPY

An intervention program for a fraternal twin with Down syndrome. Edwards SJ, et al. **Am J Occup Ther** 1990 May; 44(5):454–8
Cell therapy in children with Down syndrome: a retrospective study. Van Dyke DC, et al. **Pediatrics** 1990 Jan;85(1):79–84
Comparison of constant time delay and the system of least prompts in teaching preschoolers with developmental delays. Doyle PM, et al. **Res Dev Disabil** 1990;11(1):1–22
"Spontaneous" transfer of stimulus control from tact to mand contingencies. Sigafoos J, et al. **Res Dev Disabil** 1990; 11(2):165–76

URINE

Neopterin: biopterin ratios in Down's syndrome [letter] Cattell RJ, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug; 52(8):1015–6

DOXAPRAM

ANALOGS & DERIVATIVES

Pharmacodynamic effects and pharmacokinetic profiles of keto-doxapram and doxapram in newborn lambs. Bairam A, et al. **Pediatr Res** 1990 Aug;28(2):142–6

PHARMACOLOGY

Doxapram and the neuromuscular junction [letter; comment] Fauvel NJ, et al. **Br J Anaesth** 1990 Feb;64(2):256–7 Comment on: Br J Anaesth 1989 Jun;62(6):664–8.

Effects of caffeine and doxapram perfusion on local cerebral glucose utilization in conscious rats. Schroeder H, et al. **Eur J Pharmacol** 1989 Aug 22;167(2):245–54

Pharmacodynamic effects and pharmacokinetic profiles of keto-doxapram and doxapram in newborn lambs. Bairam A, et al. **Pediatr Res** 1990 Aug;28(2):142–6

Sex-related differences in doxapram-induced alteration of drug action in the rat. Ishikawa M, et al. **Res Commun Chem Pathol Pharmacol** 1989 Sep; 65(3):397–400

THERAPEUTIC USE

Muscle spasticity [letter] Fry EN. **Anaesthesia** 1990 Jan; 45(1):67–8

Doxapram for respiratory depression after epidural morphine [letter] Thangathurai D, et al. **Anaesthesia** 1990 Jan; 45(1):64–5

Comparison of ethamivan and doxapram in the management of postanesthetic respiratory depression. Dobkin AB, et al. **Anesth Analg** 1967 Jul–Aug;46(4):449–66

A blinded, randomized, placebo-controlled trial to compare theophylline and doxapram for the treatment of apnea of prematurity. Peliowski A, et al. **J Pediatr** 1990 Apr; 116(4):648–53

Effect of doxapram on postoperative pulmonary complications after upper abdominal surgery in high-risk patients. Jansen JE, et al. **Lancet** 1990 Apr 21; 335(8695):936–8

[Doxapram therapy in acute progressive chronic respiratory failure (letter)] Qvist J, et al. **Ugeskr Laeger** 1989 Dec 4; 151(49):3330–1 **(Dan)**

[Effects of doxapram on the response to hypercapnia: application to weaning from artificial ventilation in chronic obstructive respiratory insufficiency] Pourriat JL, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R264 **(Fre)**

DOXEPIN

ANALOGS & DERIVATIVES

Cis- and trans-isomers of doxepin and desmethyldoxepin in the plasma of depressed patients treated with doxepin. Hrdina PD, et al. **Ther Drug Monit** 1990 Mar;12(2):129–33

ANALYSIS

A SepPak HPLC method for tricyclic antidepressant drugs in human vitreous humor. Evenson MA, et al. **J Anal Toxicol** 1989 Nov–Dec;13(6):322–5

BLOOD

Cis- and trans-isomers of doxepin and desmethyldoxepin in the plasma of depressed patients treated with doxepin. Hrdina PD, et al. **Ther Drug Monit** 1990 Mar;12(2):129–33

PHARMACOKINETICS

Comparative plasma levels of doxepin and desipramine in the elderly. Gosselin C, et al. **Can J Psychiatry** 1989 Dec; 34(9):921, 923–4

Post-mortem drug redistribution—a toxicological nightmare. Pounder DJ, et al. **Forensic Sci Int** 1990 Apr;45(3):253–63

PHARMACOLOGY

The interaction of amitriptyline, doxepin, imipramine and their N-methyl quaternary ammonium derivatives with subtypes of muscarinic receptors in brain and heart. Ehlert FJ, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):13–9

THERAPEUTIC USE

Effects of doxepin on withdrawal symptoms in smoking cessation. Murphy JK, et al. **Am J Psychiatry** 1990 Oct; 147(10):1353–7

Doxepin in smoking cessation. Whelan AM, et al. **DICP** 1990 Jun;24(6):598–9 (5 ref.)

Comparative trial of trimipramine versus doxepin in depressed hospitalised patients. Assalian P, et al. **Drugs** 1989;38 Suppl 1:32–4; discussion 49–50

Mechanism of action of doxepin in the treatment of chronic urticaria. Figueiredo A, et al. **Fundam Clin Pharmacol** 1990; 4(2):147–58

Doxepin in the treatment of female detrusor overactivity: a randomized double-blind crossover study. Lose G, et al. **J Urol** 1989 Oct;142(4):1024–6

[Intravenous versus oral treatment of endogenously depressed patients with doxepin—a double-blind study with plasma level determination] Laux G, et al. **Wien Med Wochenschr** 1989 Nov 30;139(22):525–9 (Eng. Abstr.) **(Ger)**

DOXORUBICIN

Reduced doxorubicin waste through use of multiple-dose vials [letter] Bressler LR, et al. **Am J Hosp Pharm** 1990 Apr;47(4):775, 779

Stabilization of disulfide linkage in drug–polymer–immunoglobulin conjugate by microenvironmental control. Yokoyama M, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1234–9

Structural comparison of anticancer drug–DNA complexes: adriamycin and daunomycin. Frederick CA, et al. **Biochemistry** 1990 Mar 13;29(10):2538–49

Characterization of liposomal systems containing doxorubicin entrapped in response to pH gradients. Mayer LD, et al. **Biochim Biophys Acta** 1990 Jun 27;1025(2):143–51

Changes in the three-dimensional organization of LoVo cells associated with resistance to doxorubicin. Soranzo C, et al. **Cancer Lett** 1989 Nov 15;48(1):37–41

Interaction of the C14-OH group of adriamycin with DNA phosphate as spectroscopically evidenced. Pohle W, et al. **J Biomol Struct Dyn** 1986 Oct;4(2):243–50

Immunoconjugates of doxorubicin and murine antihuman breast carcinoma monoclonal antibodies prepared via an N-hydroxysuccinimide active ester intermediate of cis-aconityl-doxorubicin: preparation and in vitro cytotoxicity. Ogden JR, et al. **Mol Biother** 1989;1(3):170–4

[Slow releasing effect of adriamycin–lipiodol–emulsion made with chocola-A] Hidaka K, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3503–6 **(Jpn)**

ADMINISTRATION & DOSAGE

Weekly anthracycline in the treatment of advanced breast cancer. Gundersen S, et al. **Acta Oncol** 1989;28(6):883–5

Weekly doxorubicin in the treatment of metastatic breast carcinoma. Nylén U, et al. **Acta Oncol** 1989;28(4):515–7

Adriamycin entrapped in sulfatide-containing liposomes. Yagi K. **Adv Enzyme Regul** 1989;29:219–28

Arterial chemoinfusion and embolization of iliac metastasis from pancreatic islet cell carcinoma [letter; comment] Valette PJ, et al. **AJR Am J Roentgenol** 1989 Dec; 153(6):1318 Comment on: AJR Am J Roentgenol 1989 Feb;152(2):387–90.

Electrochemical treatment of cancer. IV: Leukocyte and platelet counts in peripheral blood after electrochemical treatment of solitary lung neoplasms. Beving H, et al. **Am J Clin Oncol** 1990 Apr;13(2):167–70

Electrochemical treatment of cancer. III: Plasma pharmacokinetics of adriamycin after intraneoplastic administration. Eksborg S, et al. **Am J Clin Oncol** 1990 Apr;13(2):164–6

Schedule-dependent effectiveness of ADM and multiple cycles of DDP on a murine reticulum sarcoma. Leonetti C, et al. **Anticancer Res** 1990 Jan–Feb;10(1):45–8

Antimetastatic activity of adriamycin in combinations with proteinase inhibitors in mice. Leto G, et al. **Anticancer Res** 1990 Jan–Feb;10(1):265–9

High levels of doxorubicin in the tissues of a patient experiencing extravasation during a 4-day infusion. Dorr RT, et al. **Cancer** 1989 Dec 15;64(12):2462–4

Combination chemotherapy with or without radiation therapy in small cell lung cancer. An analysis of a 5-year follow-up. Fukuoka M, et al. **Cancer** 1990 Apr 15; 65(8):1678–84

Reduced cardiotoxicity of doxorubicin by a 6-hour infusion regimen. A prospective randomized evaluation. Shapira J, et al. **Cancer** 1990 Feb 15;65(4):870–3

Weekly doxorubicin versus doxorubicin every 3 weeks in cyclophosphamide, doxorubicin, and cisplatin chemotherapy for non-small cell lung cancer. Umsawasdi T, et al. **Cancer** 1989 Nov 15;64(10):1995–2000

Ifosfamide with and without adriamycin in advanced uterine leiomyosarcoma. Hawkins RE, et al. **Cancer Chemother Pharmacol** 1990;26 Suppl:S26–9

A comparative study on the antitumor effect, cardiotoxicity and nephrotoxicity of doxorubicin given as a bolus, continuous infusion or entrapped in liposomes in the Lou/M Wsl rat. Storm G, et al. **Cancer Chemother Pharmacol** 1989;24(6):341–8

Doxorubicin is a widely used chemotherapeutic agent with activity reported in many malignancies, including soft tissue sarcomas [letter] Greenberg MH, et al. **Cancer Invest** 1989; 7(5):523

Enhancement of murine tumor cell sensitivity to adriamycin by presentation of the drug in phosphatidylcholine–phosphatidylserine liposomes. Fan D, et al. **Cancer Res** 1990 Jun 15;50(12):3619–26

Influence of vesicle size, lipid composition, and drug-to-lipid ratio on the biological activity of liposomal doxorubicin in mice. Mayer LD, et al. **Cancer Res** 1989 Nov 1; 49(21):5922–30

Anthracycline antibiotics with high liposome entrapment: structural features and biological activity. Perez-Soler R, et al. **Cancer Res** 1990 Jul 15;50(14):4260–6

Weekly Adriamycin vs. 4-epidoxorubicin every second week in advanced breast cancer. A randomized trial. The Norwegian Breast Cancer Group. Gundersen S, et al. **Eur J Cancer** 1990 Jan;26(1):45–8

Systemic administration of doxorubicin-containing liposomes in cancer patients: a phase I study. Gabizon A, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1795–803

Intensive chemotherapy with combinations containing anthracyclines for refractory and relapsing multiple myeloma. Finnish Leukaemia Group. Palva IP, et al. **Eur J Haematol** 1990 Feb;44(2):121–4

The effect of anti-alpha-fetoprotein-adriamycin conjugate on a human hepatoma. Galun E, et al. **Hepatology** 1990 Apr;11(4):578–84

Analysis of dose intensity in doxorubicin-containing adjuvant chemotherapy in stage II and III breast carcinoma. Ang PT, et al. **J Clin Oncol** 1989 Nov;7(11):1677–84

Cisplatin-based chemotherapy in advanced basal and squamous cell carcinomas of the skin: results in 28 patients including 13 patients receiving multimodality therapy. Guthrie TH Jr, et al. **J Clin Oncol** 1990 Feb;8(2):342–6

Ifosfamide plus doxorubicin in metastatic adult sarcomas: a multi-institutional phase II trial. Loehrer PJ Sr, et al. **J Clin Oncol** 1989 Nov;7(11):1655–9

Targeted delivery of low dose doxorubicin hydrochloride administered via magnetic albumin microspheres in rats. Gupta PK, et al. **J Microencapsul** 1990 Jan–Mar;7(1):85–94

Anti-laminin receptor antibody targeting of liposomes with encapsulated doxorubicin to human breast cancer cells in vitro. Rahman A, et al. **J Natl Cancer Inst** 1989 Dec 6; 81(23):1794–800

Albumin microspheres as vehicles for the sustained and controlled release of doxorubicin. Jones C, et al. **J Pharm Pharmacol** 1989 Dec;41(12):813–6

The antitumor effects of adriamycin entrapped in liposomes on lymph node metastases. Konno H, et al. **Jpn J Surg** 1990 Jul;20(4):424–8

Preliminary clinical study of transferrin-adriamycin conjugate for drug delivery to acute leukemia patients. Faulk WP, et al. **Mol Biother** 1990 Mar;2(1):57–60

In vivo response of mitoxantrone and doxorubicin with dipyrone in parental and doxorubicin-resistant P388 leukemia. Kamath NS, et al. **Oncology** 1990;47(2):166–9

Liposomal forms of doxorubicin and cisplatin in phase I trials [news] **Oncology (Williston Park)** 1988 Aug;2(8):18

Chemotherapy and multimodality treatment in thyroid carcinoma. Ekman ET, et al. **Otolaryngol Clin North Am** 1990 Jun;23(3):523–7 (21 ref.)

Enhanced antitumor activity of adriamycin by encapsulation in mouse erythrocytes targeted to liver and lungs. Benatti U, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 2:27–33

Membrane alterations by liposomes to enhance clinical efficacy of cytotoxic drugs. Rahman A, et al. **Prog Clin Biol Res** 1990;343:281–304

Dose response for adjuvant chemotherapy of breast cancer: experimental and clinical considerations. Frei E 3d. **Recent Results Cancer Res** 1989;115:25–7

Extravasation of doxorubicin from vascular access devices. Curran CF, et al. **Sel Cancer Ther** 1990 Summer;6(2):103–7

Anti-tumor effect of cisplatin, carboplatin, mitoxantrone, and doxorubicin on peritoneal tumor growth after intraperitoneal and intravenous chemotherapy: a comparative study. Los G, et al. **Sel Cancer Ther** 1990 Summer;6(2):73–82

Effects of verapamil and degradable starch microspheres during hepatic artery infusion of doxorubicin. Thom AK, et al. **Surgery** 1990 May;107(5):552–9

Interstitial cystitis treated with intravesical doxorubicin. Khanna OP, et al. **Urology** 1990 Aug;36(2):139–42

Locally advanced unresectable gastric cancer successfully resected after neoadjuvant chemotherapy with FADE regimen. Chung HC, et al. **Yonsei Med J** 1990 Mar; 31(1):74–9

[Lipiodol transcatheter arterial chemoembolization for non-resectable hepatocellular carcinoma—multicenter cooperative study] Kawai S, et al. **Gan To Kagaku Ryoho** 1990 Feb;17(2):227–32 (Eng. Abstr.) **(Jpn)**

[Treatment of carcinomatous effusion with oily anticancer agents dissolved in lipiodol] Kimura M, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1579–82 (Eng. Abstr.) **(Jpn)**

[Intraarterial chemotherapy of experimentally metastasized liver carcinoma with anticancer emulsion containing surface-active agent] Kitamura Y, et al. **Gan To Kagaku Ryoho** 1989 Nov;16(11):3615–20 (Eng. Abstr.) **(Jpn)**

[Role of oxygen-derived free radicals for antitumor effects of intra-arterial injection with adriamycin] Kokura S, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1711–4 (Eng. Abstr.) **(Jpn)**

[Loco-regional cancer chemotherapy in patients with malignant pleural effusion—improving the QOL of patients] Sugitachi A, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1583–7 (Eng. Abstr.) **(Jpn)**

[Intra-arterial infusion chemotherapy in bladder cancer] Sumiyoshi Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1697–700 (Eng. Abstr.) **(Jpn)**

[Intermittent arterial chemoembolization in liver tumor using degradable starch microspheres] Takayasu Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1715–20 (Eng. Abstr.) **(Jpn)**

[Basic study on hepatic artery chemoembolization and tumor selective drug targeting by temperature-sensitive liposome with local hyperthermia] Ueno M, et al. **Gan To Kagaku Ryoho** 1989 Dec;16(12):3735–8 (Eng. Abstr.) **(Jpn)**

[A new intra-arterial chemotherapy for unresectable hepatic neoplasm—the effect of charcoal hemoperfusion for isolated hepatic venous outflow on the prevention of systemic side effects of adriamycin: preliminary report] Ku

Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):2050 **(Jpn)**

[Extracorporeal adriamycin–removal following hepatic artery infusion: use of direct hemoperfusion combined with veno–venous bypass] Ku Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Oct;90(10):1758–64 (Eng. Abstr.) **(Jpn)**

[Enhanced effect of intra–arterial adriamycin administration in combination with degradable starch microspheres on an intra–arterial chemotherapy model of nude rats transplanted of human gastric cancer] Sakamoto Y, et al. **Nippon Geka Gakkai Zasshi** 1990 Mar;91(3):326–34 (Eng. Abstr.) **(Jpn)**

[Simplified intraarterial infusion and angiographic method for rabbit VX–2 hind limb tumor via the saphenous artery] Homma Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Apr 25;50(4):426–8 (Eng. Abstr.) **(Jpn)**

[Pulmonary complication following intra–arterial infusion of lipiodol–adriamycin emulsion for hepatocellular carcinoma, report of a case] Samejima M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Jan 25; 50(1):24–8 (Eng. Abstr.) **(Jpn)**

[Effectiveness of 3–drug therapy in patients with advanced ovarian cancer] Kwaśniewska–Rokicińska C, et al. **Ginekol Pol** 1989 Feb;60(2):86–9 (Eng. Abstr.) **(Pol)**

[Modification of doxorubicin action with artificial hyperglycemia] Moroz LV, et al. **Antibiot Khimioter** 1990 Apr;35(4):34–6 (Eng. Abstr.) **(Rus)**

[Effectiveness of combined action of vitamins A, E and C and cyclophosphane or adriamycin on growth of transplanted tumors in mice] Mosienko VS, et al. **Eksp Onkol** 1990;12(3):55–7 (Eng. Abstr.) **(Rus)**

[Use of cytostatics deposited in cellulose acetate microspheres in the treatment of ovarian cancer] Rusakov IG, et al. **Sov Med** 1989;(10):37–9 **(Rus)**

ADVERSE EFFECTS

Tumor lysis syndrome after induction chemotherapy in small–cell lung carcinoma. Hussein AM, et al. **Am J Clin Oncol** 1990 Feb;13(1):10–3

Ocular adverse reactions associated with adriamycin (doxorubicin). Curran CF, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):709–11

Doxorubicin hypersensitivity and clindamycin [letter] Arena FP, et al. **Ann Intern Med** 1990 Jan 15;112(2):150

Onycholysis in doxorubicin–treated patients [letter] Curran CF. **Arch Dermatol** 1990 Sep;126(9):1244

Cardiac transplantation for doxorubicin–induced cardiomyopathy in acute myeloid leukaemia. Aldouri MA, et al. **Br J Haematol** 1990 Apr;74(4):541

Development of leukemia after doxorubicin and cisplatin treatment for ovarian cancer. Chambers SK, et al. **Cancer** 1989 Dec 15;64(12):2459–61

Fluorescence microscopic demonstration and demarcation of doxorubicin extravasation. Experimental and clinical studies. Dahlström KK, et al. **Cancer** 1990 Apr 15; 65(8):1722–6

Long–term cardiac sequelae after treatment of malignant tumors with radiotherapy or cytostatics in childhood. Mäkinen L, et al. **Cancer** 1990 May 1;65(9):1913–7

Toxicity of intra–arterial doxorubicin in locally advanced breast cancer. Twelves CJ, et al. **Cancer Chemother Pharmacol** 1990;25(6):459–62

Comment: doxorubicin extravasions [letter; comment] Simon DL. **DICP** 1989 Nov;23(11):928 Comment on: DICP 1989 May;23(5):386–7.

Acute and short–term toxicoses associated with the administration of doxorubicin to dogs with malignant tumors. Ogilvie GK, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1584–7

Initial congestive heart failure, six to ten years after doxorubicin chemotherapy for childhood cancer. Goorin AM, et al. **J Pediatr** 1990 Jan;116(1):144–7

Bladder contracture following intravesical doxorubicin therapy: case report and a review of the literature. Denochowski R, et al. **J Urol** 1990 Apr;143(4):816–8 (16 ref.)

Severe acute encephalopathy following inadvertent intrathecal doxorubicin administration. Arico M, et al. **Med Pediatr Oncol** 1990;18(3):261–3

Doxorubicin induced hyperpigmentation [letter] Kumar L, et al. **N Z Med J** 1990 Apr 11;103(887):165

[The effect of the anthracycline derivative doxorubicin on myocardial function in children] Sobotka–Plojhar MA, et al. **Ned Tijdschr Geneeskd** 1989 Jul 8;133(27):1367–70 (Eng. Abstr.) **(Dut)**

[Clinico–morphologic correlations of lesions induced by adriamycin administered in the thoracic aorta] Rusignuolo F, et al. **G Ital Oncol** 1989 Oct–Dec;9(4):145–56 (Eng. Abstr.) **(Ita)**

[Gallium–67 myocardial imaging for the detection of adriamycin cardiomyopathy] Morozumi T, et al. **Kaku Igaku** 1990 May;27(5):477–84 (Eng. Abstr.) **(Jpn)**

[Early and late effects of the cytogenetic action of doxorubicin] Klimova MIu, et al. **Antibiot Khimioter** 1990 Jan;35(1):30–2 (Eng. Abstr.) **(Rus)**

[Experimental study of late effects of the damaging action of doxorubicin on the lymphoid tissue] Zapuskalova OB, et al. **Antibiot Khimioter** 1989 Nov;34(11):855–9 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

Esorubicin cardiotoxicity in vitro: antagonism by pimobendan. Galatulas I, et al. **Acta Physiol Hung** 1990; 75 Suppl:123–4

Phase II evaluation of 4'deoxydoxorubicin in advanced renal cell carcinoma. Kish JA, et al. **Am J Clin Oncol** 1990 Feb; 13(1):17–8

Esorubicin (4'-deoxydoxorubicin, NSC 267469) in advanced breast cancer. A phase II study of the CALGB. Muss HB, et al. **Am J Clin Oncol** 1990 Jun;13(3):233–7

Serum concentrations of amiodarone required for an in vivo modulation of anthracycline resistance. Genne P, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1655–9

Absolute and relative activities of 4' –iodo–4'-deoxydoxorubicin against human colo–rectal tumors, as evaluated by a short–term in vitro assay. Villa R, et al. **Anticancer Res** 1990 Jan–Feb;10(1):105–8

Doxorubicin–3'-NH–oestrone–17–oxime–ethyl–carbonyl, a doxorubicin–oestrone conjugate that does not redox cycle in rat liver microsomes. Hartman NG, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1164–7

The pharmacokinetics of polymer–bound adriamycin. Seymour LW, et al. **Biochem Pharmacol** 1990 Mar 15; 39(6):1125–31

Relationship between reductive drug metabolism in tumour tissue of anthracyclines in microspherical form and anti–tumour activity [published erratum appears in Biochem Pharmacol 1990 Jun 15;39(12):2077] Willmott N, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1055–62

Free radicals induced by adriamycin–sensitive and adriamycin–resistant cells: a spin–trapping study. Alegria AE, et al. **Biochemistry** 1989 Oct 17;28(21):8653–8

The differentiation–promoting potential of a cytostatic fluoro–pyranosyl adriamycin analog (FAD 104). Blazsek I, et al. **Biomed Pharmacother** 1989;43(4):267–70

N–benzyladriamycin–14–valerate versus progressively doxorubicin–resistant murine tumours: cellular pharmacology and characterisation of cross–resistance in vitro and in vivo. Ganapathi R, et al. **Br J Cancer** 1989 Dec;60(6):819–26

Cellular pharmacology of 4'-iodo–4'-deoxydoxorubicin. Schott B, et al. **Br J Cancer** 1990 Apr;61(4):543–7

A phase II study of pirarubicin in malignant pleural mesothelioma. Kaukel E, et al. **Cancer** 1990 Aug 15; 66(4):651–4

Comparative uptake and retention of adriamycin and N–benzyladriamycin–14–valerate in human CEM leukemic lymphocyte cell cultures. Israel M, et al. **Cancer Chemother Pharmacol** 1989;25(3):177–83

4'-O–tetrahydropyranyl–doxorubicin in advanced breast cancer: a phase II study. Samonigg H, et al. **Cancer Chemother Pharmacol** 1990;26(4):293–6

Uptake and binding of 3'-(3–cyano–4–morpholinyl)–3'-deaminoadriamycin and 3'-(4–morpholinyl)–3'-deaminoadriamycin in L5178Y lymphoblasts in vitro. Begleiter A, et al. **Cancer Commun** 1990;2(1):7–12

DNA topoisomerase II–mediated interaction of doxorubicin and daunorubicin congeners with DNA. Bodley A, et al. **Cancer Res** 1989 Nov 1;49(21):5969–78

Characterization of the DNA–DNA cross–linking activity of 3'-(3–cyano–4–morpholinyl)–3'-deaminoadriamycin. Jesson MI, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7031–6

Paradoxical increase in DNA cross–linking in a human ovarian carcinoma cell line resistant to cyanomorpholino doxorubicin. Lau DH, et al. **Cancer Res** 1990 Jul 1; 50(13):4056–60

Anthracycline antibiotics with high liposome entrapment: structural features and biological activity. Perez–Soler R, et al. **Cancer Res** 1990 Jul 15;50(14):4260–6

A fluorine–containing anthracycline (ME2303) as a new antitumor agent against murine and human tumors and their multidrug–resistant sublines. Tsuruo T, et al. **Cancer Res** 1989 Oct 15;49(20):5537–42

Characterization and anticancer activity of the micelle–forming polymeric anticancer drug adriamycin–conjugated poly(ethylene glycol)–poly(aspartic acid) block copolymer. Yokoyama M, et al. **Cancer Res** 1990 Mar 15;50(6):1693–700

Formation of DNA–adducts and induction of DNA–crosslinks and chromosomal aberrations by the new potent anthracycline antitumor antibiotics: morpholinodaunomycin, cyanomorpholinodaunomycin and cyanomorpholinoadriamycin. Westendorf J, et al. **Cell Biol Toxicol** 1985 Jan;1(2):87–101

Interaction of N–alkylanthracyclines with lipid bilayers: correlations between partition coefficients, lipid phase distributions and thermotropic behavior. Constantinides PP, et al. **Chem Phys Lipids** 1989 Oct;51(2):105–18

9–Alkyl, morpholinyl anthracyclines in the circumvention of multidrug resistance. Coley HM, et al. **Eur J Cancer** 1990;26(6):665–7

Phase II study of pirarubicin in advanced non–small cell lung cancer. Berthaud P, et al. **Eur J Cancer Clin Oncol** 1989 Oct;25(10):1507–8

Phase II study of esorubicin (4'-deoxydoxorubicin) in advanced or metastatic squamous carcinoma of the uterine cervix: a Gynecologic Oncology Group Study. McGuire WP, et al. **Invest New Drugs** 1989 Jul;7(2–3):235–8

Phase II study of esorubicin (4'-deoxydoxorubicin) in advanced epithelial carcinoma of the ovary: a Gynecologic Oncology Group study. McGuire WP, et al. **Invest New Drugs** 1989 Nov;7(4):333–6

Phase I study of 4'-deoxydoxorubicin (esorubicin) in children with malignant solid tumors. Pratt CB, et al. **Invest New Drugs** 1989 Jul;7(2–3):209–11

Clinical cardiotoxicity of esorubicin (4'-deoxydoxorubicin,DxDx): prospective studies with serial gated heart scans and reports of selected cases. A Cancer and Leukemia Group B report. Ringenberg QS, et al. **Invest New Drugs** 1990 May;8(2):221–6

Phase II trial of 4' deoxydoxorubicin (DXDX) for unresectable non–small cell bronchogenic carcinoma. An Illinois Cancer Council study. Rose C, et al. **Invest New Drugs** 1990 Feb;8(1):97–9

Pirarubicin (4'–o–tetrahydropyranil–adriamycin) for treatment of advanced breast cancer. A Clinical Phase II study. Scheithauer W, et al. **Invest New Drugs** 1990 May; 8(2):207–10

Phase II evaluation of esorubicin (4'deoxydoxorubicin) in pancreatic adenocarcinoma: a Southwest Oncology Group study. Vaughn CB, et al. **Invest New Drugs** 1990 Feb; 8(1):81–5

In vitro activity of 4'-iodo–4'-deoxydoxorubicin on human colo–rectal cancer as measured by a short–term antimetabolic assay. Villa R, et al. **Invest New Drugs** 1990 May;8(2):143–4

Biological activities of new anthracyclines containing fluorine, FAD104 and its metabolites. Kunimoto S, et al. **J Antibiot (Tokyo)** 1990 May;43(5):556–65

3'-Hydroxyesorubicin. Synthesis and antitumor activity. Priebe W, et al. **J Antibiot (Tokyo)** 1990 Jul;43(7):838–46

Synthesis and antitumor activity of novel 4–demethoxyanthracyclines. Adams N, et al. **J Med Chem** 1990 Sep;33(9):2375–9

Pharmacology and clinical toxicity of 4'-iodo–4'-deoxydoxorubicin: an example of successful application of pharmacokinetics to dose escalation in phase I trials [see comments] Gianni L, et al. **J Natl Cancer Inst** 1990 Mar 21;82(6):469–77 Comment in: J Natl Cancer Inst 1990 Mar 21;82(6):446–7.

Antitumor activity of ME2303, a fluorine–containing anthracycline, against human tumors implanted in nude mice. Tsuruo T, et al. **Jpn J Cancer Res** 1989 Jul; 80(7):686–9

Immunoconjugates of doxorubicin and murine antihuman breast carcinoma monoclonal antibodies prepared via an N–hydroxysuccinimide active ester intermediate of cis–aconityl–doxorubicin: preparation and in vitro cytotoxicity. Ogden JR, et al. **Mol Biother** 1989;1(3):170–4

Effects of morpholinyl doxorubicins, doxorubicin, and actinomycin D on mammalian DNA topoisomerases I and II. Wassermann K, et al. **Mol Pharmacol** 1990 Jul; 38(1):38–45

Phase II study of pirarubicin (THP–adriamycin) in metastatic breast cancer patients. Lenk H, et al. **Oncology** 1990; 47(2):97–100

Pirarubicin in advanced non–small cell lung cancer. A trial of the Phase I/II Study Group of the Association for Medical Oncology of the German Cancer Society. Drings P, et al. **Onkologie** 1990 Jun;13(3):180–4

Phase II study of pirarubicin in metastatic breast cancer. Kleeberg UR, et al. **Onkologie** 1990 Jun;13(3):175–9

[Pharmacokinetics of pirarubicin (THP–doxorubicin) in patients with cancer] Robert J, et al. **Bull Cancer (Paris)** 1989;76(8):889–92 **(Fre)**

[THP–adriamycin: status of the clinical development of a new anthracycline in France] Herait P. **Pathol Biol (Paris)** 1990 Jan;38(1):64–8 (Eng. Abstr.) **(Fre)**

[Phase II study with pirarubicin in pretreated progressive head–neck neoplasms] Iro H, et al. **Laryngorhinootologie** 1990 Mar;69(3):131–4 (Eng. Abstr.) **(Ger)**

[Antitumor activities of ME 2303 on human gastrointestinal cancer xenografted to nude mice] Fujita F, et al. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1143–50 (Eng. Abstr.) **(Jpn)**

[A clinical trial of transarterial chemoembolization for hepatocellular carcinoma using 4'–0–tetrahydropyranyladriamycin] Izumi N, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1303–7 (Eng. Abstr.) **(Jpn)**

[In vitro combined effects of pirarubicin (THP) and various antitumor drugs on human tumor cell lines] Nagasawa M, et al. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 1):633–8 (Eng. Abstr.) **(Jpn)**

[Targeting anticancer chemotherapy dispersed in lipid contrast medium in hepatoblastoma in childhood] Ohnuma N, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Apr 20; 25(4):788–92 (Eng. Abstr.) **(Jpn)**

[Infiltration and tissue concentration of intravesically instilled (2"R)–4'–O–tetrahydropyranyladriamycin or adriamycin in rat bladder tumor induced by BBN] Masuda H, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Apr;81(4):577–82 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Visible–light system for detecting doxorubicin contamination on skin and surfaces. Van Raalte J, et al. **Am J Hosp Pharm** 1990 May;47(5):1067–74

The hydrolysis activation of the doxorubicin cardioprotective agent ICRF–187 [+)–1,2–bis(3,5–dioxopiperazinyl–1–yl)propane). Hasinoff BB. **Drug Metab Dispos** 1990 May–Jun;18(3):344–9

The reductive deglycosylation of adriamycin in aqueous medium: a pulse radiolysis study. Lea JS, et al. **Free Radic Res Commun** 1990;8(4–6):241–9

ANTAGONISTS & INHIBITORS

Modulation of doxorubicin-induced DNA lesions by verapamil, DMDP and dipyridamole in resistant P388 cell lines. Yin MB, et al. **Anticancer Res** 1990 Mar–Apr; 10(2A):327–32

Inhibition of N-methyl-N'-nitro-N-nitrosoguanidine-induced methotrexate and adriamycin resistance in CHO cells by adeno-associated virus type 2. Yalkinoglu AO, et al. **Int J Cancer** 1990 Jun 15;45(6):1195–203

Protective effect of taurine against doxorubicin-induced cardiotoxicity in perfused chick hearts. Hamaguchi T, et al. **Pharmacol Res** 1989 Nov–Dec;21(6):729–34

BLOOD

Anthracycline pharmacokinetics. Limited sampling model for plasma level monitoring with special reference to epirubicin (Farmorubicin). Eksborg S. **Acta Oncol** 1990;29(3):339–42

Liposomes with entrapped doxorubicin exhibit extended blood residence times. Bally MB, et al. **Biochim Biophys Acta** 1990 Mar 30;1023(1):133–9

Accumulation of vincristine and doxorubicin in malignant lymphocytes with different immunophenotypes. Reizenstein P, et al. **Eur J Haematol** 1989 Nov;43(5):448–51

Erythrocytes as barriers for drug elimination in the isolated rat liver. I. Doxorubicin. Lee HJ, et al. **Pharm Res** 1989 Oct;6(10):833–9

Extracorporeal removal of anticancer drugs in hepatic artery infusion: the effect of direct hemoperfusion combined with venovenous bypass. Ku Y, et al. **Surgery** 1990 Mar; 107(3):273–81

IMMUNOLOGY

A new monoclonal antibody recognizing anthracyclinic molecule. Balsari A, et al. **Anticancer Res** 1990 Jan–Feb; 10(1):129–32

METABOLISM

Uptake of adriamycin in tumour and surrounding brain tissue in patients with malignant gliomas. von Holst H, et al. **Acta Neurochir (Wien)** 1990;104(1–2):13–6

The iron(III) and copper(II) complexes of adriamycin promote the hydrolysis of the cardioprotective agent ICRF-187 ((+)-1,2-bis(3,5-dioxopiperazinyl-1-yl)propane). Hasinoff BB. **Agents Actions** 1990 Mar;29(3–4):374–81

Recent advances in cancer research: drug targeting without the use of monoclonal antibodies. Faulk WP, et al. **Am J Reprod Immunol** 1989 Nov–Dec;21(3–4):151–4

Comparison of intracellular drug retention, DNA damage and cytotoxicity of derivatives of doxorubicin and daunorubicin in a human colon adenocarcinoma cell line (LoVo). Belvedere G, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3713–21

Time-dependent modifications of ferric-adriamycin. Gelvan D, et al. **Biochem Pharmacol** 1990 Apr 15;39(8):1289–95

Anthracycline resistance in murine leukemic P388 cells. Role of drug efflux and glutathione related enzymes. Nair S, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):723–8

Relationship between reductive drug metabolism in tumour tissue of anthracyclines in microspherical form and anti-tumour activity [published erratum appears in Biochem Pharmacol 1990 Jun 15;39(12):2077] Willmott N, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1055–62

Abrogation of the selectivity of adriamycin for negatively-charged phospholipids by 14-valerate side chain substitution. Burke TG, et al. **Cancer Biochem Biophys** 1990 Apr;11(2):177–85

Antioxidant and xenobiotic-metabolizing enzyme gene expression in doxorubicin-resistant MCF-7 breast cancer cells. Akman SA, et al. **Cancer Res** 1990 Mar 1; 50(5):1397–402

Effect of osmotic pressure on uptake of chemotherapeutic agents by carcinoma cells. Stephen RL, et al. **Cancer Res** 1990 Aug 1;50(15):4704–8

Retention of vital dyes correlates inversely with the multidrug-resistant phenotype of adriamycin-selected murine fibrosarcoma variants. Bucana CD, et al. **Exp Cell Res** 1990 Sep;190(1):69–75

Self-reduction of the iron(III)-doxorubicin complex. Hasinoff BB. **Free Radic Biol Med** 1989;7(6):583–93

Reactions of adriamycin with microsomal iron and lipids. Minotti G. **Free Radic Res Commun** 1989;7(3–6):143–8

Visualization of adriamycin uptake and internalization by receptor-mediated endocytosis in mast cells. An ultrastructural study using adriamycin-colloidal gold complexes. Crivellato E, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:125–6

PHARMACOKINETICS

Pharmacokinetics and central haemodynamic effects of doxorubicin and 4'epi-doxorubicin in the pig. Andersson M, et al. **Acta Oncol** 1989;28(5):709–14

Pharmacokinetics of anthracyclines. Eksborg S. **Acta Oncol** 1989;28(6):873–6

A pharmacological rationale for neoadjuvant chemotherapy with adriamycin in locally advanced breast cancer. Gasparini G, et al. **Anticancer Res** 1990 Jan–Feb; 10(1):193–6

Verapamil effect on the accumulation of doxorubicin in the leukemia P388 cells with induced antibiotic resistance. Moroz LV, et al. **Arch Geschwulstforsch** 1990;60(2):129–32

A study of the mechanism of resistance to Adriamycin in vivo. Glutathione metabolism, P-glycoprotein expression, and drug transport. Lee FY, et al. **Biochem Pharmacol** 1989 Nov 1;38(21):3697–705

A limited sampling procedure for estimating adriamycin pharmacokinetics in cancer patients. Launay MC, et al. **Br J Cancer** 1989 Jul;60(1):89–92

Phenotypic variations dictate the intracellular compartmentalization of doxorubicin in normal human bone marrow cells. Aghaï E, et al. **Cancer Chemother Pharmacol** 1990;25(4):295–8

Comparative pharmacokinetics of escalating doses of doxorubicin in patients with metastatic breast cancer. Bronchud MH, et al. **Cancer Chemother Pharmacol** 1990; 25(6):435–9

Hepatic tissue distribution of doxorubicin-loaded nanoparticles after i.v. administration in reticulosarcoma M 5076 metastasis-bearing mice. Chiannilkulchai N, et al. **Cancer Chemother Pharmacol** 1990;26(2):122–6

Comparative uptake and retention of adriamycin and N-benzyladriamycin-14-valerate in human CEM leukemic lymphocyte cell cultures. Israel M, et al. **Cancer Chemother Pharmacol** 1989;25(3):177–83

Distribution of doxorubicin to normal breast and tumour tissue in patients undergoing mastectomy. Stallard S, et al. **Cancer Chemother Pharmacol** 1990;25(4):286–90

Comparative metabolism and pharmacokinetics of doxorubicin and 4'-epidoxorubicin in plasma, heart and tumor of tumor-bearing mice. van der Vijgh WJ, et al. **Cancer Chemother Pharmacol** 1990;26(1):9–12

Tissue distribution of doxorubicin associated with polyisohexylcyanoacrylate nanoparticles. Verdun C, et al. **Cancer Chemother Pharmacol** 1990;26(1):13–8

Disposition of anticancer drugs after bolus arterial administration in a tissue-isolated tumor perfusion system. Ohkouchi K, et al. **Cancer Res** 1990 Mar 1;50(5):1640–4

Pharmacokinetics of intraperitoneal doxorubicin in combination with systemic cyclophosphamide and cis-platinum in the treatment of stage III ovarian cancer. Malviya VK, et al. **Gynecol Oncol** 1990 Feb;36(2):185–8

A phase I clinical trial and pharmacokinetic evaluation of liposome-encapsulated doxorubicin. Rahman A, et al. **J Clin Oncol** 1990 Jun;8(6):1093–100

Effect of exposure to calcium entry blockers on doxorubicin accumulation and cytotoxicity in multidrug-resistant cells. Bruno NA, et al. **J Natl Cancer Inst** 1990 Mar 7; 82(5):419–24

Effect of carrier dose on the multiple tissue disposition of doxorubicin hydrochloride administered via magnetic albumin microspheres in rats. Gupta PK, et al. **J Pharm Sci** 1989 Sep;78(9):745–8

Physiological pharmacokinetic model of adriamycin delivered via magnetic albumin microspheres in the rat. Gallo JM, et al. **J Pharmacokinet Biopharm** 1989 Jun; 17(3):305–26

Adriamycin cellular transport: methodological aspects. Havlik I, et al. **J Pharmacol Methods** 1990 Mar;23(1):1–6

Mechanisms involved in the development of adriamycin resistance in human leukemic cells. Kato S, et al. **Leuk Res** 1990;14(6):567–73

Comparative disposition of adriamycin delivered via magnetic albumin microspheres in presence and absence of magnetic field in rats. Gupta PK, et al. **Life Sci** 1990; 46(7):471–9

Kinetics of adriamycin injected proximal to a tumor: a comparative study between venous and arterial injections. Poirier O, et al. **Nouv Rev Fr Hematol** 1989;31(5):353–7

[Intravenous adriamycin in ambulatory patients: value of an optimal planification of sampling times combined with a Bayesian evaluation of pharmacokinetic parameters] Launay MC, et al. **Bull Cancer (Paris)** 1989;76(8):903–4 **(Fre)**

[Chemotherapy combined with Lipiodol. In vitro study of the kinetics of release of adriamycin] Heresbach D, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):775–8 (Eng. Abstr.) **(Fre)**

[Transplacental passage of doxorubicin] Grohard P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989;18(5):595–600 (Eng. Abstr.) **(Fre)**

[The uptake of daunorubicin, adriamycin and aclarubicin into leukemic cells measured by flow cytometry] Arai N, et al. **Gan To Kagaku Ryoho** 1990 May;17(5):1077–9 **(Jpn)**

[Enhanced effect of hepatic arterial infusion of anticancer drugs of rabbit VX-2 hepatic implants] Koyama Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1721–4 (Eng. Abstr.) **(Jpn)**

[Serum uptake of doxorubicin intravesically administered soon after transurethral resection of bladder carcinoma] Nagakura K, et al. **Hinyokika Kiyo** 1989 Sep;35(9):1509–12 (Eng. Abstr.) **(Jpn)**

[Infiltration and tissue concentration of intravesically instilled (2"R)-4'-O-tetrahydropyranyladriamycin or adriamycin in rat bladder tumor induced by BBN] Masuda H, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Apr;81(4):577–82 (Eng. Abstr.) **(Jpn)**

[The effect of finoptin on the accumulation of doxorubicin in leukemia P388 cells with induced resistance to the antibiotic] Moroz LV, et al. **Biull Eksp Biol Med** 1989 Dec; 108(12):714–6 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Comparative effects of busulfan, cytosine arabinoside and adriamycin on different maturation stages of normal human bone marrow cells. Tohda S, et al. **Acta Haematol (Basel)** 1990;83(1):16–21

Exocytosis and membrane recycling in adriamycin-treated rat peritoneal mast cells. Decorti G, et al. **Acta Physiol Hung** 1990;75 Suppl:79–80

Effect of calcium influx blocker verapamil on adriamycin-induced cytotoxicity in leukemia cells in vitro. Mircheva JJ, et al. **Acta Physiol Pharmacol Bulg** 1989; 15(4):3–8

Studies on drug resistance in chronic lymphocytic leukemia. Silber R, et al. **Adv Enzyme Regul** 1989;29:267–76

Acute effects of doxorubicin on human left ventricular systolic and diastolic function. Brown KA, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):979–82

Doxorubicin-induced alterations in cultured myocardial cells stimulate cytolytic T lymphocyte responses. Huber SA. **Am J Pathol** 1990 Aug;137(2):449–56

pHi and DNA content modifications after ADR treatment in 3T3 fibroblasts. A microfluorimetric approach. Lahmy S, et al. **Anticancer Res** 1989 Jul–Aug;9(4):929–35

Are quinones producers or scavengers of superoxide ion in cells? Afanas'ev IB, et al. **Arch Biochem Biophys** 1990 Sep; 281(2):245–50

The effect of adriamycin and duramycin on calcium translocation in liposome systems modeled on the inner mitochondrial membrane. Kester MB, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):405–11

NADPH- and adriamycin-dependent microsomal release of iron and lipid peroxidation. Minotti G. **Arch Biochem Biophys** 1990 Mar;277(2):268–76

mdr1/P-glycoprotein gene segments analyzed from various human leukemic cell lines exhibiting different multidrug resistance profiles. Gekeler V, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):796–802

Information from combined 1H and 31P NMR studies of cell extracts: differences in metabolism between drug-sensitive and drug-resistant MCF-7 human breast cancer cells. Kaplan O, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):383–90

Detection of 300-kilodalton membrane protein in adriamycin-resistant human tumor cells by a monoclonal antibody MRK18. Sugimoto Y, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):686–91

Expression of human glutathione S-transferases in Saccharomyces cerevisiae confers resistance to the anticancer drugs adriamycin and chlorambucil. Black SM, et al. **Biochem J** 1990 Jun 1;268(2):309–15

Inhibition and inactivation of NADH-cytochrome c reductase activity of bovine heart submitochondrial particles by the iron(III)-adriamycin complex. Hasinoff BB. **Biochem J** 1990 Feb 1;265(3):865–70

Effects of DNA-binding drugs on T4 DNA ligase. Montecucco A, et al. **Biochem J** 1990 Mar 1;266(2):379–84

Taurine deficiency and doxorubicin: interaction with the cardiac sarcolemmal calcium pump. Harada H, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):745–51

Glutathione S-transferases and glutathione peroxidases in doxorubicin-resistant murine leukemic P388 cells. Singh SV, et al. **Biochem Pharmacol** 1989 Oct 15;38(20):3505–10

Cytochrome P450 reductase, antioxidant enzymes and cellular resistance to doxorubicin. Singh SV, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):385–7

Thiol oxidation and inhibition of Ca-ATPase by adriamycin in rabbit heart microsomes. Vile G, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):769–74

Free radicals induced by adriamycin-sensitive and adriamycin-resistant cells: a spin-trapping study. Alegria AE, et al. **Biochemistry** 1989 Oct 17;28(21):8653–8

Induction of stable transcriptional blockage sites by adriamycin: GpC specificity of apparent adriamycin-DNA adducts and dependence on iron(III) ions. Cullinane C, et al. **Biochemistry** 1990 Jun 12;29(23):5638–46

Effect of hormonal manipulation and doxorubicin administration on cell cycle kinetics of human breast cancer cells. Bontenbal M, et al. **Br J Cancer** 1989 Nov; 60(5):688–92

Expression of mdr1 and gst-pi in human breast tumours: comparison to in vitro chemosensitivity. Keith WN, et al. **Br J Cancer** 1990 May;61(5):712–6

The cardiac contractile function and hemodynamic control in rats after chronic adriamycin treatment. Gorodetskaya EA, et al. **Can J Physiol Pharmacol** 1990 Feb;68(2):211–5

Chemosensitivity correlation between the primary tumors and simultaneous metastatic lymph nodes of patients evaluated by DNA synthesis inhibition assay. Nio Y, et al. **Cancer** 1990 Mar 15;65(6):1273–8

DNA damage and cytotoxicity of mitoxantrone and doxorubicin in doxorubicin-sensitive and -resistant human colon carcinoma cells. Capolongo L, et al. **Cancer Chemother Pharmacol** 1990;25(6):430–4

Cardiotoxicity and antitumor activity of a copper(II)-doxorubicin chelate. Monti E, et al. **Cancer Chemother Pharmacol** 1990;25(5):333–6

P-glycoprotein expression and modulation of cell-membrane morphology in adriamycin-resistant P388 leukemia cells.

Radel S, et al. **Cancer Chemother Pharmacol** 1990; 25(4):241–6

Enhanced Ca2(+)-dependent proteolysis associated with Adriamycin-resistant HL-60 cells. Aquino A, et al. **Cancer Commun** 1990;2(7):243–7

Isolation and characterization of doxorubicin-resistant Lewis lung carcinoma variants. Bruno NA, et al. **Cancer Commun** 1990;2(4):151–8

Progressive resistance to doxorubicin in mouse leukemia L1210 cells with multidrug resistance phenotype: reductions in drug-induced topoisomerase II-mediated DNA cleavage. Ganapathi R, et al. **Cancer Commun** 1989; 1(4):217–24

Activity of cyclosporin A and a non-immunosuppressive cyclosporin against multidrug resistant leukemic cell lines. Hait WN, et al. **Cancer Commun** 1989;1(1):35–43

Exploring multidrug resistance using rhodamine 123. Kessel D. **Cancer Commun** 1989;1(3):145–9

Potentiation of doxorubicin cytotoxicity by (+)-1,2-bis-(3,5-dioxopiperazinyl-1-yl) propane (ICRF-187) in human leukemic HL-60 cells. Monti E, et al. **Cancer Commun** 1990;2(4):145–9

Glutathione, glutathione S-transferases, and related redox enzymes in Adriamycin-resistant cell lines with a multidrug resistant phenotype. Schisselbauer JC, et al. **Cancer Commun** 1989;1(2):133–9

Further characterization of drug-sensitivity and cross-resistance profiles of cloned cell lines of Adriamycin-sensitive and -resistant P388 leukemia. Seneviratne C, et al. **Cancer Commun** 1989;1(1):21–7

Indomethacin modulation of adriamycin-induced effects on multiple cytolytic effector functions. Maccubbin DL, et al. **Cancer Immunol Immunother** 1990;31(6):373–80

Morphological alterations induced by doxorubicin in B16 melanoma cells. Mariani M, et al. **Cancer Lett** 1990 Jun 15;51(3):209–12

Non-P-glycoprotein mediated mechanism for multidrug resistance precedes P-glycoprotein expression during in vitro selection for doxorubicin resistance in a human lung cancer cell line. Baas F, et al. **Cancer Res** 1990 Sep 1; 50(17):5392–8

DNA topoisomerase II-mediated interaction of doxorubicin and daunorubicin congeners with DNA. Bodley A, et al. **Cancer Res** 1989 Nov 1;49(21):5969–78

Enhancement of anthracycline growth inhibition in parent and multidrug-resistant Chinese hamster ovary cells by cyclosporin A and its analogues. Chambers SK, et al. **Cancer Res** 1989 Nov 15;49(22):6275–9

Evidence for a mutant allele of the gene for DNA topoisomerase II in adriamycin-resistant P388 murine leukemia cells [published erratum appears in Cancer Res 1990 Jan 15;50(2):449] Deffie AM, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6879–82

Reduced DNA topoisomerase II activity and drug-induced DNA cleavage activity in an adriamycin-resistant human small cell lung carcinoma cell line. de Jong S, et al. **Cancer Res** 1990 Jan 15;50(2):304–9

Reversal by cefoperazone of resistance to etoposide, doxorubicin, and vinblastine in multidrug resistant human sarcoma cells. Gosland MP, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6901–5

Induction of erythroid differentiation in human leukemic K-562 cells by membrane-directed action of adriamycin covalently bound to microspheres. Jeannesson P, et al. **Cancer Res** 1990 Feb 15;50(4):1231–6

DNA synthesis by L929 cells following doxorubicin exposure. Lanks KW, et al. **Cancer Res** 1990 Aug 1; 50(15):4776–8

Doxorubicin-induced automaticity in cultured chick heart cell aggregates. Mitrius JC, et al. **Cancer Res** 1990 Jul 15; 50(14):4209–15

Protein kinase C in adriamycin action and resistance in mouse sarcoma 180 cells. Posada J, et al. **Cancer Res** 1989 Dec 1;49(23):6634–9

Ultrasound enhanced drug toxicity on Chinese hamster ovary cells in vitro. Saad AH, et al. **Cancer Res** 1989 Nov 1; 49(21):5931–4

dl-N,N'-dicarboxamidomethyl-N,N'-dicarboxymethyl-1,2-diaminopropane (ICRF-198) and d-1,2-bis(3,5-dioxopiperazine-1-yl)propane (ICRF-187) inhibition of Fe3+ reduction, lipid peroxidation, and CaATPase inactivation in heart microsomes exposed to adriamycin. Vile GF, et al. **Cancer Res** 1990 Apr 15; 50(8):2307–10

Flow cytometric analysis of human breast tumors and assessment of in vitro chemosensitivity by clonogenic assays. Huot J, et al. **Cell Biol Toxicol** 1990 Jan;6(1):81–94

Combined effect in vitro of chemotherapy with agents acting on the cell membrane of Lewis lung carcinoma. Siegal A, et al. **Chemotherapy** 1990;36(3):230–9

Patterns of interaction between anthraquinone drugs and the calcium-release channel from cardiac sarcoplasmic reticulum. Holmberg SR, et al. **Circ Res** 1990 Aug; 67(2):272–83

Denaturing effect of acridine orange and adriamycin. Cerdán ME, et al. **Cytobios** 1989;60(242–243):151–5

Relationship of DNA ploidy to chemoresistance of tumors as measured by in vitro tests. Volm M, et al. **Cytometry** 1990;11(3):406–10

Adriamycin-induced increase in serum aldosterone levels: effects in riboflavin-sufficient and riboflavin-deficient rats. Pinto JT, et al. **Endocrinology** 1990 Sep;127(3):1495–501

Enhancement of Adriamycin cytotoxicity in a multidrug resistant Chinese hamster ovary (CHO) subline, CHO-Adrr, by toremifene and its modulation by alpha 1 acid glycoprotein. Chatterjee M, et al. **Eur J Cancer** 1990 Apr;26(4):432–6

Effects of doxorubicin on maturation of human monocytes in adherent and non-adherent cultures. van Schie RC, et al. **Eur J Cancer** 1990;26(5):581–6

Studies on the immunomodulatory effects of anthracycline antibiotics in mice: effects on immune responses and graft immunogenicity. Eckert R, et al. **Immunobiology** 1989 Oct; 179(4–5):445–55

Class I MHC molecules and doxorubicin resistant P388 murine leukemic cells. DiCicco LM, et al. **Immunopharmacol Immunotoxicol** 1989;11(4):583–92

Isolation and characterization of an adriamycin-resistant breast tumor cell line. Schneider SL, et al. **In Vitro Cell Dev Biol** 1990 Jun;26(6):621–8

Effect of alpha-tocopherol on peroxidative membrane damage caused by doxorubicin: an in vitro study in human erythrocytes. Geetha A, et al. **Indian J Exp Biol** 1989 Mar; 27(3):274–8

Comparison of DNA cleavage induced by etoposide and doxorubicin in two human small-cell lung cancer lines with different sensitivities to topoisomerase II inhibitors. Binaschi M, et al. **Int J Cancer** 1990 Feb 15;45(2):347–52

Doxorubicin decreases the repair of radiation-induced DNA damage. Bonner JA, et al. **Int J Radiat Biol** 1990 Jan; 57(1):55–64

Effects of chronic administration of doxorubicin on myocardial creatine phosphokinase and antioxidant defenses and levels of lipid peroxidation in tissues and plasma of rats. Robison TW, et al. **J Biochem Toxicol** 1989 Summer;4(2):87–94

Characterization of adriamycin-resistant human breast cancer cells which display overexpression of a novel resistance-related membrane protein. Chen YN, et al. **J Biol Chem** 1990 Jun 15;265(17):10073–80

Effect of idarubicin and epirubicin on in vitro polymorphonuclear function: diminished superoxide radical formation compared to their parent compounds daunorubicin and doxorubicin. Cairo MS, et al. **J Leukoc Biol** 1990 Mar;47(3):224–33

Effect of transient hypoxia on sensitivity to doxorubicin in human and murine cell lines. Luk CK, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):684–92

Quantitative determination of factors contributing to doxorubicin resistance in multidrug-resistant cells. Schuurhuis GJ, et al. **J Natl Cancer Inst** 1989 Dec 20; 81(24):1887–92

HT1080/DR4: a P-glycoprotein-negative human fibrosarcoma cell line exhibiting resistance to topoisomerase II-reactive drugs despite the presence of a drug-sensitive topoisomerase II. Zwelling LA, et al. **J Natl Cancer Inst** 1990 Oct 3;82(19):1553–61

Comparison of the effects of adriamycin and methotrexate on orthotopic and induced heterotopic bone in rats. Nilsson OS, et al. **J Orthop Res** 1990 Mar;8(2):199–204

Adriamycin-induced DNA strand breaks in HeLa and in P388 leukaemia cells detected using in situ nick translation. Maehara Y, et al. **J Pathol** 1989 Dec;159(4):323–7

Application of regression analysis in the evaluation of tumor response following the administration of adriamycin either as a solution or via albumin microspheres to the rat. Gupta PK, et al. **J Pharm Sci** 1990 Jul;79(7):634–7

Doxorubicin blocks the increase in intracellular Ca++, part of a second messenger system in N1E-115 murine neuroblastoma cells. Oakes SG, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):979–83

Multi-drug resistance of a doxorubicin-resistant bladder cancer cell line. Floyd JW, et al. **J Urol** 1990 Jul; 144(1):169–71

Actin isoform mRNA alterations induced by doxorubicin in cultured heart cells. Lewis W, et al. **Lab Invest** 1990 Jan; 62(1):69–76

Glomerular epithelial detachment, not reduced charge density, correlates with proteinuria in adriamycin and puromycin nephrosis. Whiteside C, et al. **Lab Invest** 1989 Dec;61(6):650–60

Augmentation of the effect of doxorubicin with low-dose tumor necrosis factor in experimental liver metastasis. Bloom ND, et al. **Mol Biother** 1990 Jun;2(2):121–4

Inhibition of transcription by adriamycin is a consequence of the loss of negative superhelicity in DNA mediated by topoisomerase II. Tarr M, et al. **Mol Cell Biochem** 1990 Mar 27;93(2):141–6

Effects of morpholinyl doxorubicins, doxorubicin, and actinomycin D on mammalian DNA topoisomerases I and II. Wassermann K, et al. **Mol Pharmacol** 1990 Jul; 38(1):38–45

Modulation of in vitro chemosensitivity by extracellular Ca++ in adriamycin sensitive and resistant P388 leukemic cells. Adwankar MK, et al. **Neoplasma** 1990;37(1):31–6

Differential effect of collaterally sensitive antimetabolites on P388 murine leukemia sensitive and resistant to adriamycin in vitro. Satyamoorthy K, et al. **Neoplasma** 1989; 36(6):673–83

Adriamycin response of two human tumor xenografts using a double-radiolabel organ culture method. Sullivan JL, et al. **Neoplasma** 1989;36(6):685–90

Doxorubicin affects tau protein metabolism in human neuroblastoma cells. Argasinski A, et al. **Neurochem Res** 1989 Oct;14(10):927–31

Modulation of glutathione peroxidase expression by selenium: effect on human MCF-7 breast cancer cell transfectants expressing a cellular glutathione peroxidase cDNA and doxorubicin-resistant MCF-7 cells. Chu FF, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1531–9

Gamma interferon administration differently affects sensitive or doxorubicin resistant P388 leukemia cells; a relationship with antioxidant defenses? Armata MG, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:21–2

Effects of verapamil and N-acetylcysteine on doxorubicin or isoproterenol cardiotoxicity in mice. Flandina C, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:11–2

Effect of adriamycin and of d-amphetamine on endogenous levels of ascorbic acid in rodents. Miele M, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:13–4

Effect of doxorubicin on calcium receptors of myocardial cells. Monti E, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:87–8

Doxorubicin selectively inhibits muscle gene expression in cardiac muscle cells in vivo and in vitro. Ito H, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4275–9

Superoxide anion production by doxorubicin analogs in heart sarcosomes and by mitochondrial NADH dehydrogenase. Gervasi PG, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jan; 67(1):101–15

Evaluation of quinidine effect on the antitumor activity of adriamycin and mitoxantrone in adriamycin-sensitive and -resistant P388 leukemia cells. Parekh H, et al. **Sel Cancer Ther** 1990 Summer;6(2):93–102

Gene expression in normal and doxorubicin-impaired wounds: importance of transforming growth factor-beta. Salomon GD, et al. **Surgery** 1990 Aug;108(2):318–22; discussion 322–3

Kinetics of thymocyte regeneration in adult adriamycin treated rats: evidence for an exclusive role of bone marrow derived cells. Murawska MB, et al. **Thymus** 1990 May; 15(3):131–46

Protein kinase C activation and lipid peroxidation by doxorubicin analogues. Gambetta RA, et al. **Tumori** 1989 Aug 31;75(4):358–61

In vitro reversal of doxorubicin resistance by the tiapamil analog RO 11-2933 in human ovarian cancer cells. Mazzoni A. **Tumori** 1990 Feb 28;76(1):69–72

Sensitization of chronic myeloid leukemia cells to adriamycin cytotoxicity by clofibrate. Parekh H, et al. **Tumori** 1990 Feb 28;76(1):18–21

[Experimental study on doxorubicin as an adjunct to glaucoma surgery] Ren JM. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):351–4 (Eng. Abstr.) **(Chi)**

[Acute hemodynamic effects of adriamycin] Gerecke U, et al. **Arch Geschwulstforsch** 1990;60(2):125–8 (Eng. Abstr.) **(Ger)**

[Effect of adriamycin on cell cycle by bromodeoxyuridine-labeling method] Tenjin T, et al. **Gan To Kagaku Ryoho** 1989 Dec;16(12):3781–6 (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

Photostabilization of doxorubicin hydrochloride with radioprotective and photoprotective agents: potential mechanism for enhancing chemotherapy during radiotherapy. Habib MJ, et al. **J Parenter Sci Technol** 1989 Nov-Dec;43(6):259–61

THERAPEUTIC USE

Prognosis in high-grade soft tissue sarcomas. The Scandinavian Sarcoma Group experience in a randomized adjuvant chemotherapy trial. Alvegård TA, et al. **Acta Orthop Scand** 1989 Oct;60(5):517–21

Electrochemical treatment of cancer. II: Effect of electrophoretic influence on adriamycin. Nordenström BE, et al. **Am J Clin Oncol** 1990 Feb;13(1):75–88

Serum concentrations of amiodarone required for an in vivo modulation of anthracycline resistance. Genne P, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1655–9

Feline mammary carcinomas as a model for human breast cancer. II. Comparison of in vivo and in vitro adriamycin sensitivity. Stolwijk JA, et al. **Anticancer Res** 1989 Jul-Aug; 9(4):1045–8

Transplantable mouse mammary adenocarcinoma 16/c as a model in experimental cancer therapy. III. Sensitivity to antitumor drugs. Rak J, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(3–4):389–97

The activity of verapamil as a resistance modifier in vitro in drug resistant human tumour cell lines is not stereospecific. Plumb JA, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):787–92

Chemotherapy-induced changes in the energetics of human breast cancer cells; 31P- and 13C-NMR studies. Neeman M, et al. **Biochim Biophys Acta** 1990 May 2;1052(2):255–63

The role of reductive and oxidative metabolism in the toxicity of mitoxantrone, adriamycin and menadione in human liver derived Hep G2 hepatoma cells. Duthie SJ, et al. **Br J Cancer** 1989 Oct;60(4):566–71

N-benzyladriamycin-14-valerate versus progressively doxorubicin-resistant murine tumours: cellular pharmacology and characterisation of cross-resistance in vitro and in vivo. Ganapathi R, et al. **Br J Cancer** 1989

Dec;60(6):819–26
Recombinant alpha 2 interferon is superior to doxorubicin for inoperable hepatocellular carcinoma: a prospective randomised trial. Lai CL, et al. **Br J Cancer** 1989 Dec; 60(6):928–33
Changes in cellular glutathione content during adriamycin treatment in human ovarian cancer—a possible indicator of chemosensitivity. Lee FY, et al. **Br J Cancer** 1989 Sep; 60(3):291–8
Randomized comparison of doxorubicin and vindesine to doxorubicin for patients with metastatic soft-tissue sarcomas. Borden EC, et al. **Cancer** 1990 Sep 1;66(5):862–7
A prospective randomized trial of doxorubicin versus idarubicin in the treatment of advanced breast cancer. Lopez M, et al. **Cancer** 1989 Dec 15;64(12):2431–6
Management of malignant ovarian immature teratoma. Role of adriamycin. Vergote IB, et al. **Cancer** 1990 Sep 1; 66(5):882–6 (33 ref.)
Ifosfamide + mitoxantrone in advanced breast cancer previously treated with anthracyclines. Bellmunt J, et al. **Cancer Chemother Pharmacol** 1990;26 Suppl:S81–4
Sensitivity to thermochemotherapy of AKR lymphoma and B16 melanoma variants of malignancy. Leibovici J, et al. **Clin Exp Metastasis** 1990 Jan–Feb;8(1):33–46
Doxorubicin in relapsed soft tissue sarcoma: justification of phase II evaluation of new drugs in this disease. An EORTC Soft Tissue and Bone Sarcoma Group Study. Blackledge G, et al. **Eur J Cancer** 1990 Feb;26(2):139–41
Long-term versus short-term doxorubicin hydrochloride instillation after transurethral resection of superficial bladder cancer. Flamm J. **Eur Urol** 1990;17(2):119–24
Doxorubicin as an adjuvant following surgery and radiation therapy in patients with high-risk endometrial carcinoma, stage I and occult stage II: a Gynecologic Oncology Group Study. Morrow CP, et al. **Gynecol Oncol** 1990 Feb; 36(2):166–71
Clinical features of advanced ovarian mixed mesodermal tumors and treatment with doxorubicin– and cis-platinum-based chemotherapy. Plaxe SC, et al. **Gynecol Oncol** 1990 May;37(2):244–9
Treatment of low-grade non-Hodgkin's lymphomas: assessment of doxorubicin in a controlled trial. Lepage E, et al. **Hematol Oncol** 1990 Jan–Feb;8(1):31–9
Effect of hyperthermia and thermochemotherapy on primary and metastatic tumour cells of AKR lymphoma. Klorin G, et al. **Int J Exp Pathol** 1990 Aug;71(4):469–77
Phase II evaluation of doxorubicin for treatment of various canine neoplasms. Ogilvie GK, et al. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1580–3
Effect of doxorubicin on local recurrence following marginal resection in the MGH–OGS murine model. Bell RS, et al. **J Orthop Res** 1990 Jan;8(1):105–18
Bacillus Calmette-Guerin versus doxorubicin versus thiotepa: a randomized prospective study in 202 patients with superficial bladder cancer. Martínez-Piñeiro JA, et al. **J Urol** 1990 Mar;143(3):502–6
Effect of combined intrapleural administration of Lactobacillus casei (LC9018) and adriamycin on experimental malignant pleurisy in mice. Tohgo A, et al. **Jpn J Cancer Res** 1989 Dec;80(12):1238–45
Prediction of the resistance of human tumors to adriamycin by chemosensitivity tests and DNA analysis of the multidrug resistance gene. Kim R, et al. **Jpn J Surg** 1990 Mar;20(2):192–6
Adriamycin custom-tailored immunoconjugates in the treatment of human malignancies. Oldham RK, et al. **Mol Biother** 1988;1(2):103–13
31P NMR study of cisplatin– and doxorubicin-induced changes in tumour metabolism in rats with a cisplatin-sensitive or -resistant immunocytoma. Sijens PE, et al. **NMR Biomed** 1990 Jun;3(3):124–31
Breast cancer and laser photoradiation therapy: an in vitro model for autologous bone marrow purging. Gulliya KS, et al. **Prog Clin Biol Res** 1990;333:103–7
Preclinical evaluation of immunoconjugates consisting of doxorubicin linked to complement-fixing monoclonal antibody DLC-48 for bone marrow purging of B-cell lymphomas. Winter JN, et al. **Prog Clin Biol Res** 1990; 333:171–83
Enhanced effect of adriamycin on a rat liver adenocarcinoma after hepatic artery injection with degradable starch microspheres. el Hag IA, et al. **Sel Cancer Ther** 1990 Spring; 6(1):23–34
Multicenter study of superficial bladder cancer treated with intravesical bacillus Calmette-Guérin or adriamycin. Khanna OP, et al. **Urology** 1990 Feb;35(2):101–8
[Nanoparticles of doxorubicin: colloidal vectors in the treatment of hepatic metastases in animals] Chiannilkulchai N, et al. **Bull Cancer (Paris)** 1989;76(8):845–8 (Fre)
[Adjuvant chemotherapy using adriamycin and cisplatin in infiltrating cancer of the bladder. Prospective study of 49 cases] Azab M, et al. **J Urol (Paris)** 1989;95(8):459–63 (Eng. Abstr.) (Fre)
[THP-adriamycin: status of the clinical development of a new anthracycline in France] Herait P. **Pathol Biol (Paris)** 1990 Jan;38(1):64–8 (Eng. Abstr.) (Fre)
[In vivo antitumor activity of mitoxantrone and the flow cytometric analysis of its influence on cell cycle transition—comparison with doxorubicin and aclarubicin on ascitic hepatoma AH109A cells] Asamura M, et al. **Gan To Kagaku Ryoho** 1989 Dec;16(12):3769–76 (Eng. Abstr.) (Jpn)
[Comparative study on prophylactic intravesical instillation of bacillus Calmette-Guerin (BCG) and adriamycin for superficial bladder cancers] Tachibana M, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Oct;80(10):1459–65 (Eng. Abstr.) (Jpn)
[Comparison of the cytotoxic activity of doxorubicin and epirubicin by an in vitro test] Czownicki Z, et al. **Pol Arch Med Wewn** 1989 Aug–Sep;82(2–3):71–6 (Eng. Abstr.) (Pol)
[Endoscopic laser recanalization in the chemo– and radiotherapy of stenosing cancer of the esophagus] Kuvshinov IuP, et al. **Sov Med** 1990;(3):28–31 (Eng. Abstr.) (Rus)
[Adriamycin versus ftorafur in the prevention of recurrence of superficial carcinoma of the bladder] Unda Urzaiz M, et al. **Arch Esp Urol** 1990 Mar;43(2):143–6 (Eng. Abstr.) (Spa)

TOXICITY

Adriamycin nephrosis and contrast media. A comparison between diatrizoate and iohexol in rats. Thomsen HS, et al. **Acta Radiol** 1990 Jan;31(1):93–8
Adriamycin cardiotoxicity in vivo. Selective alterations in rat cardiac mRNAs. Papoian T, et al. **Am J Pathol** 1990 Jun;136(6):1201–7
Effect of adriamycin on hamster molar tooth development in vitro: 1. Morphological changes. Karim AC, et al. **Anat Rec** 1989 Dec;225(4):318–28
Effect of trimetazidine on early and delayed doxorubicin myocardial toxicity. Perletti G, et al. **Arch Int Pharmacodyn Ther** 1989 Nov–Dec;302:280–9
On the detection of paramagnetic species in the adriamycin–perfused rat heart: a reappraisal [comment] Kalyanaraman B, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):30–8 Comment on: Biochem Biophys Res Commun 1988 May 31;153(1):275–80.
Enhanced depletion of lens reduced glutathione Adriamycin in riboflavin–deficient rats. Dutta P, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1111–5
Increased cytotoxicity of nanoparticle-carried Adriamycin in vitro and potentiation by verapamil and amiodarone. Kubiak C, et al. **Biomaterials** 1989 Oct;10(8):553–6
Structure of the adriamycin–cardiolipin complex. Role in mitochondrial toxicity. Goormaghtigh E, et al. **Biophys Chem** 1990 Apr;35(2–3):247–57 (49 ref.)
The effect of ultrasound on the cytotoxicity of adriamycin. Loverock P, et al. **Br J Radiol** 1990 Jul;63(751):542–6
Prediction of the left ventricular ejection fraction response to doxorubicin using a multiple linear regression model. Rabinovitch M, et al. **Can J Cardiol** 1989 Nov–Dec; 5(8):382–8
Relationship between cytotoxicity, drug accumulation, DNA damage and repair of human ovarian cancer cells treated with doxorubicin: modulation by the tiapamil analog RO11–2933. Alaoui Jamali MA, et al. **Cancer Chemother Pharmacol** 1989;25(2):77–83
Protective effects of fructose-1,6-diphosphate on acute and chronic doxorubicin cardiotoxicity in rats. Danesi R, et al. **Cancer Chemother Pharmacol** 1990;25(5):326–32
The influence of Na+,K(+)-pump blockade on doxorubicin–mediated cytotoxicity and DNA strand breakage in human tumor cells. Lawrence TS, et al. **Cancer Chemother Pharmacol** 1990;26(3):163–7
Effect of angiotensin II on the antitumor activity and cardiotoxicity of doxorubicin [published erratum appears in Cancer Lett 1990 Jun 15;51(3):269] Monti E, et al. **Cancer Lett** 1990 Apr 9;50(1):79–85
Bladder epithelial hyperplasia in F344 rats after intravesical instillation of the antitumor chemotherapeutic agents Adriamycin and mitomycin C. Shibata MA, et al. **Cancer Lett** 1990 Jan;49(1):41–9
Accidental acute exposure to doxorubicin. Curran CF, et al. **Cancer Nurs** 1989 Dec;12(6):329–31
Influence of microenvironmental pH on adriamycin resistance. Alabaster O, et al. **Cancer Res** 1989 Oct 15; 49(20):5638–43
Role of (+–)-1,2-bis(3,5-dioxopiperazinyl-1-yl)propane (ICRF-187) in modulating free radical scavenging enzymes in doxorubicin-induced cardiomyopathy. Alderton P, et al. **Cancer Res** 1990 Aug 15;50(16):5136–42
Low levels of chromosomal mutations in germ cells derived from doxorubicin-treated stem spermatogonia in the mouse. Meistrich ML, et al. **Cancer Res** 1990 Jan 15; 50(2):370–4
Temperature dependence of adriamycin-induced DNA damage in L1210 cells. Vichi P, et al. **Cancer Res** 1989 Oct 15;49(20):5575–80
Oxidative damage in selenium deficient hearts on perfusion with adriamycin: protective role of glutathione peroxidase system. Nakano E, et al. **Cardiovasc Res** 1989 Jun; 23(6):498–504
Myocardial damage induced by doxorubicins: hydroperoxide-initiated chemiluminescence and morphology. Llesuy SF, et al. **Free Radic Biol Med** 1990; 8(3):259–64
Adriamycin affects glomerular renal function: evidence for the involvement of oxygen radicals. Barbey MM, et al. **Free Radic Res Commun** 1989;7(3–6):195–203
Exacerbation of doxorubicin cardiotoxicity by digoxin administration in an experimental rabbit model. Reeves WC, et al. **Int J Cancer** 1990 Apr 15;45(4):731–6 (42 ref.)
Skin and perivascular toxicity induced experimentally by doxorubicin. Balsari A, et al. **J Chemother** 1989 Oct; 1(5):324–9
Effects of verapamil on chronic doxorubicin-induced cardiotoxicity in dogs. Bright JM, et al. **J Natl Cancer Inst** 1990 Jun 6;82(11):963–4
Effect of adriamycin on DNA, RNA and protein biosyntheses in mouse tissues, in connection with its cardiotoxicity. Sazuka Y, et al. **Jpn J Cancer Res** 1989 Oct; 80(10):1000–5
Effect of converting enzyme inhibition on the course of adriamycin–induced nephropathy. Scholey JW, et al. **Kidney Int** 1989 Nov;36(5):816–22
Effects of calcium antagonists on anti-cancer drug toxicity to haematopoietic progenitor cells in normal human bone marrow. Nakarai T, et al. **Leuk Res** 1990;14(5):401–5
Anthraquinone-sensitized Ca2+ release channel from rat cardiac sarcoplasmic reticulum: possible receptor–mediated mechanism of doxorubicin cardiomyopathy. Pessah IN, et al. **Mol Pharmacol** 1990 Apr;37(4):503–14
The induction of reciprocal translocations in mouse germ cells by chemicals and ionizing radiations. III. Differential effect of two doses of adriamycin combined with 5 or 9 Gy of gamma-rays. De Luca JC, et al. **Mutat Res** 1990 Sep;232(1):17–21
Female-specific dominant lethal effects in mice. Katoh MA, et al. **Mutat Res** 1990 Jun;230(2):205–17
Doxorubicin (adriamycin): a critical review of free radical–dependent mechanisms of cytotoxicity. Keizer HG, et al. **Pharmacol Ther** 1990;47(2):219–31 (130 ref.)
The isolated mouse atria as a new model for testing cardioactive drugs with special reference to doxorubicin (Adriamycin). Hermansen K, et al. **Pharmacol Toxicol** 1990 Apr;66(4):299–302
Comparative hematopoietic toxicity of doxorubicin and 4'-epirubicin. OKunewick JP, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):95–9
Isolated mouse atrium as a model to study anthracycline cardiotoxicity: the role of the beta-adrenoceptor system and reactive oxygen species. de Jong J, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun; 68(3):275–89
Effects of ibuprofen on doxorubicin toxicity. Inchiosa MA Jr, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jan; 67(1):63–78
Effect of ICRF-187 pretreatment against doxorubicin–induced delayed cardiotoxicity in the rat. Villani F, et al. **Toxicol Appl Pharmacol** 1990 Feb; 102(2):292–9
Hepatotoxicity of mitoxantrone and doxorubicin. Llesuy SF, et al. **Toxicology** 1990 Aug;63(2):187–98
[An experimental study of the effects of "sheng mai lotion" on subacute cardiac toxicity induced by adriamycin] Rong YZ. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Dec; 17(6):371–2 (Chi)
[The role of oxygen free radicals and antioxidants in toxic side effects of antineoplastic chemotherapy and their prevention] Malec J. **Wiad Lek** 1989 Oct 1–Nov 1; 42(19–21):1044–51 (82 ref.) (Pol)
[Comparative evaluation of the cardiotoxic effects of antineoplastic antibiotics adriamycin and pharmorubicin] Valvere VIu, et al. **Kardiologiia** 1989 Sep;29(9):64–7 (Eng. Abstr.) (Rus)
[The regulation of systemic and regional hemodynamics in waking rats with a chronic adriamycin–induced myocardial lesion] Dugin SF, et al. **Patol Fiziol Eksp Ter** 1989 Sep–Oct; (5):30–2 (Eng. Abstr.) (Rus)
[Decrease in the cytogenetic effect of adriblastin and pharmorubicin with the experimental use of tularemia vaccine] Nersesian AK, et al. **Tsitol Genet** 1989 Jul–Aug; 23(4):63–5 (Eng. Abstr.) (Rus)
[Cyto and genotoxic effect of some environmental contaminants on spermatogenesis] Lafuente-Indo N. **Arch Biol Med Exp (Santiago)** 1989 Apr;22(1):69–75 (31 ref.) (Spa)

URINE

Effect of urine pH on the stability of doxorubicin and its recovery from bladder instillations. Ilett KF, et al. **Br J Urol** 1990 May;65(5):478–82

DOXYCYCLINE

ADMINISTRATION & DOSAGE

Systemic prophylaxis with doxycycline in intestinal surgery on patients with high incidence of abnormal fecal flora. Myrvold HE, et al. **Acta Chir Scand** 1989 Apr–May; 155(4–5):277–80
A placebo-controlled study on the efficacy of aspirin and doxycycline in preventing clogging of biliary endoprostheses. Smit JM, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):485–9
The effect of local doxycycline with and without tricalcium phosphate on the regenerative healing potential of periodontal osseous defects in dogs. Al-Ali W, et al. **J Periodontol** 1989 Oct;60(10):582–90
A randomized comparison of gentamicin–clindamycin and cefoxitin–doxycycline in the treatment of acute pelvic inflammatory disease. Walters MD, et al. **Obstet Gynecol** 1990 May;75(5):867–72
[A single dose of doxycycline for preventing infections after

cesarean section] Katsulov A, et al.
Akush Ginekol (Sofiia) 1989;28(6):33–7 (Eng. Abstr.) **(Bul)**

[Treatment of acne vulgaris. A comparison of doxycycline versus minocycline] Laux B. **Hautarzt** 1989 Sep; 40(9):577–81 (Eng. Abstr.) **(Ger)**

[Effectiveness of perioperative preventive use of antibiotics with metronidazole or doxycycline in vaginal hysterectomy] Gerber B, et al. **Zentralbl Gynakol** 1989; 111(23):1542–8 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Doxicycline-induced esophagitis: treatment with liquid sucralphate [letter] Pinos T, et al. **Am J Gastroenterol** 1990 Jul;85(7):902–3

Onset of psoriasis coincident with tetracycline therapy. Tsankov NK, et al. **Australas J Dermatol** 1988;29(2):111–2

Concerned about intravenous use of doxycycline in horses [letter] Riond JL, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):846, 848

Anosmia after doxycycline use. Bleasel AF, et al.
Med J Aust 1990 Apr 16;152(8):440

[Esophageal ulcer caused by doxycycline] Mur Villacampa M, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):67–9 (39 ref.) (Eng. Abstr.) **(Spa)**

ANALYSIS

In vitro release of doxycycline from bioabsorbable materials and acrylic strips. Larsen T. **J Periodontol** 1990 Jan; 61(1):30–4

METABOLISM

Doxycycline binding to plasma albumin of several species. Riond JL, et al. **J Vet Pharmacol Ther** 1989 Sep; 12(3):253–60

PHARMACOKINETICS

Pharmacokinetics and metabolic inertness of doxycycline in young pigs. Riond JL, et al. **Am J Vet Res** 1990 Aug; 51(8):1271–5

Absorption of doxycycline from a controlled release pellet formulation: the influence of food on bioavailability. Williams DB, et al. **Biopharm Drug Dispos** 1990 Mar; 11(2):93–105

[Bioequivalence of an optimized doxycycline preparation] Lode H, et al. **Arzneimittelforschung** 1989 Sep;39(9):1162–5 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

In vitro and in vivo effects of doxycycline on Toxoplasma gondii. Chang HR, et al. **Antimicrob Agents Chemother** 1990 May;34(5):775–80

Mechanistic investigation of doxycycline photosensitization by picosecond-pulsed and continuous wave laser irradiation of cells in culture. Shea CR, et al.
J Biol Chem 1990 Apr 15;265(11):5977–82

Evaluation of the activity of four antimicrobial agents using an in vitro rapid micromethod against oral streptococci and various bacterial strains implicated in periodontitis. Chraibi DI, et al. **J Periodont Res** 1990 Jul;25(4):201–6

[In vitro sensitivity of Mycobacterium avium and Mycobacterium xenopi to erythromycin, roxithromycin and doxycycline] Maugein J, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):565–7 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Response of HIV-associated disseminated cat scratch disease to treatment with doxycycline. Mui BS, et al.
Am J Med 1990 Aug;89(2):229–31

Randomized trial of doxycycline versus josamycin for Mediterranean spotted fever. Bella F, et al.
Antimicrob Agents Chemother 1990 May;34(5):937–8

Multicenter prospective study of treatment of Brucella melitensis brucellosis with doxycycline for 6 weeks plus streptomycin for 2 weeks. Cisneros JM, et al.
Antimicrob Agents Chemother 1990 May;34(5):881–3

Doxycycline prophylaxis for shigellosis. Ben-Yehuda O, et al. **Arch Intern Med** 1990 Jan;150(1):209–12

Randomised double blind trial of single dose doxycycline for treating cholera in adults. Alam AN, et al. **BMJ** 1990 Jun 23;300(6740):1619–21

Preventing IUCD-related pelvic infection: the efficacy of prophylactic doxycycline at insertion. Sinei SK, et al.
Br J Obstet Gynaecol 1990 May;97(5):412–9

Randomized comparison of ofloxacin and doxycycline for chlamydia and ureaplasma urethritis and cervicitis. Mogabgab WJ, et al. **Chemotherapy** 1990;36(1):70–6

A comparison of the efficacy and safety of ceftizoxime with doxycycline versus conventional CDC therapies in the treatment of upper genital tract infection with or without a mass. Roy S, et al. **Clin Ther** 1990;12 Suppl C:53–73

The clogged biliary endoprosthesis: help on the way. Levine JG, et al. **Gastroenterology** 1990 Jul;99(1):281–2

Postgonococcal urethritis: a double-blind study of doxycycline vs placebo. Mclean KA, et al.
Genitourin Med 1990 Feb;66(1):20–3

Treatment of chlamydiosis in exotic birds in the United States. Flammer K. **J Am Vet Med Assoc** 1989 Dec 1; 195(11):1537–40 (30 ref.)

Treatment of Lyme borreliosis. Randomized comparison of doxycycline and penicillin G. Kohlhepp W, et al.
J Neurol 1989 Dec;236(8):464–9

Ciprofloxacin compared with doxycycline for nongonococcal urethritis. Ineffectiveness against Chlamydia trachomatis due to relapsing infection. Hooton TM, et al. **JAMA** 1990 Sep 19;264(11):1418–21

January 1990. Current treatment guidelines for sexually transmitted diseases. **Md Med J** 1990 Jan;39(1):6–9

Desquamative gingivitis: preliminary observations with tetracycline treatment. Rønbeck BA, et al.
Oral Surg Oral Med Oral Pathol 1990 Jun;69(6):694–7

Treatment of multiple subcutaneous Nocardia asteroides abscesses with ciprofloxacin and doxycycline. Bath PM, et al. **Postgrad Med J** 1989 Mar;65(761):190–1

Effect of tetracycline and SnF2 on root resorption in replanted incisors in dogs. Bjorvatn K, et al.
Scand J Dent Res 1989 Dec;97(6):477–82

Pivampicillin versus doxycycline in the treatment of chlamydial urethritis in men. Lassus AB, et al.
Sex Transm Dis 1990 Jan-Mar;17(1):20–2

[Lyme borreliosis, the 'Hocus Pas' among infectious diseases (letter)] Blaauw AA, et al. **Ned Tijdschr Geneeskd** 1989 Dec 23;133(51):2578–9 **(Dut)**

[The evaluation of the efficacy of antibiotic therapy in human periodontal disease] Cigana F, et al.
Bull Group Int Rech Sci Stomatol Odontol 1989 Dec; 32(4):227–37 (Eng. Abstr.) **(Fre)**

[Treatment with doxycycline and nifuroxazide of Isospora belli infection in AIDS] Meyohas MC, et al.
Pathol Biol (Paris) 1990 Jun;38(5 (Pt 2)):589–91 (Eng. Abstr.) **(Fre)**

[Roxithromycin versus doxycycline in the treatment of cervicitis. Prospective randomized multicenter study under practice-related conditions] Hoyme UB, et al.
Fortschr Med 1990 Apr 20;108(12):244–6 (Eng. Abstr.) **(Ger)**

[Acne and free fatty acids in sebum, modification by doxycycline] Huber HP, et al.
Schweiz Rundsch Med Prax 1990 May 15;79(20):631–2 (Eng. Abstr.) **(Ger)**

[Multifactor analysis of parameters of immunity under the combined action of doxycycline and a low molecular weight immunomodulator of microbial origin] Nikitin AV, et al. **Antibiot Khimioter** 1989 Jul;34(7):526–30 (Eng. Abstr.) **(Rus)**

[The combined treatment with doxycycline and methyluracil of a patient with lymphogranuloma venereum] Agakishiev DD, et al. **Vestn Dermatol Venerol** 1990;(1):77–8 **(Rus)**

[An ultrastructural and morphometric analysis of the polymorphonuclear leukocytes from lesion foci and from the peripheral blood in patients with a gonorrhea-chlamydial urogenital infection before and during treatment with doxycycline combined with T-activin] Delektorskiĭ VV, et al.
Vestn Dermatol Venerol 1990;(2):15–21 (Eng. Abstr.) **(Rus)**

[Mediterranean boutonneuse fever. Effects of the duration of the treatment using doxycycline (letter)] Yébenes Díaz G, et al. **Rev Clin Esp** 1990 Apr;186(6):309–10 **(Spa)**

URINE

Determination of oxytetracycline and doxycycline in pharmaceutical compounds, urine and honey by derivative spectrophotometry. Salinas F, et al. **Analyst** 1989 Sep; 114(9):1141–5

DOXYLAMINE see under **PYRIDINES**

DPN see **NAD**

DPNASE see **NAD NUCLEOSIDASE**

DPT VACCINE see
DIPHTHERIA-TETANUS-PERTUSSIS VACCINE

DRACUNCULOSIS

Third Regional Conference on Dracunculiasis in Africa.
Wkly Epidemiol Rec 1990 Aug 10;65(32):245–7 **(Eng, Fre)**

COMPLICATIONS

Disability from dracunculiasis: effect on mobility. Smith GS, et al. **Ann Trop Med Parasitol** 1989 Apr;83(2):151–8

Guinea worm: an in-depth study of what happens to mothers, families and communities. Watts SJ, et al. **Soc Sci Med** 1989;29(9):1043–9

ECONOMICS

Farmers' loss due to Guinea worm disease: a pilot study. Brieger WR, et al. **J Trop Med Hyg** 1990 Apr;93(2):106–11

EPIDEMIOLOGY

The prevalence and endemicity of dracunculiasis in Akowide village, Oyo State, Nigeria. Ofoezie IE, et al.
Ann Trop Med Parasitol 1990 Apr;84(2):163–9

Epidemiological studies on guinea-worm in some newly discovered villages of Jhabua District (M.P.) and test of carica papaya leaves of guinea worm infection. Sanghvi PK. **Indian J Med Sci** 1989 May;43(5):123–4

Guineaworm, maternal morbidity, and child health. Brieger R, et al. **J Trop Pediatr** 1989 Dec;35(6):285–8

Permanent disability from dracunculiasis [letter] Imtiaz R, et al. **Lancet** 1990 Sep 8;336(8715):630

The Imo State (Nigeria) Drinking Water Supply and Sanitation Project, 2. Impact on dracunculiasis, diarrhoea and nutritional status. Huttly SR, et al.
Trans R Soc Trop Med Hyg 1990 Mar-Apr;84(2):316–21

Prevalence and geographical distribution of dracunculiasis (guineaworm disease) in Cross River State, Nigeria. Braide EI, et al. **Trop Geogr Med** 1989 Oct;41(4):289–93

Dracunculiasis. Global surveillance summary, 1989.
Wkly Epidemiol Rec 1990 Jul 27;65(30):229–33 **(Eng, Fre)**

[Longitudinal epidemiologic study of dracunculosis in the south of Togo] Petit MM, et al.
Bull Soc Pathol Exot Filiales 1989;82(4):520–30 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Specific and cross-reacting antibodies in human responses to Onchocerca volvulus and Dracunculus medinensis infections. Garate T, et al. **Am J Trop Med Hyg** 1990 Feb; 42(2):140–7

PARASITOLOGY

Distribution, behavior, and course of patency of Dracunculus insignis in experimentally infected ferrets. Brandt FH, et al. **J Parasitol** 1990 Aug;76(4):515–8

PATHOLOGY

Red Dracunculus medinensis. Eberhard ML, et al.
Am J Trop Med Hyg 1989 Oct;41(4):479–81

PREVENTION & CONTROL

Surveillance: the foundation for control and elimination of dracunculiasis in Africa. Richards F, et al.
Int J Epidemiol 1989 Dec;18(4):934–43

Calculation of water volume in step wells for cyclopicide application and its eco-epidemiological implication: mathematical validation of some theoretical considerations. Saxena VK, et al. **J Commun Dis** 1989 Sep;21(3):222–8

Chemoprophylactic drug trials for treatment of dracunculiasis using the Dracunculus insignis-ferret model. Eberhard ML, et al. **J Helminthol** 1990 Jun;64(2):79–86

The elimination of dracunculiasis in Igbon, Oyo State, Nigeria: the success of self-help activities. Edungbola LD, et al. **J Trop Med Hyg** 1990 Feb;93(1):1–6

Update: dracunculiasis eradication--worldwide, 1989.
MMWR 1990 Jan 5;38(51-52):882–5

Dracunculiasis. **Wkly Epidemiol Rec** 1990 Apr 27; 65(17):125–6 **(Eng, Fre)**

Dracunculiasis. **Wkly Epidemiol Rec** 1990 May 18; 65(20):149–51 **(Eng, Fre)**

TRANSMISSION

Involvement of Mesocyclops leuckarti (claus) in the transmission of guineaworm infection in Thane Distt., Maharashtra. Sharma SK, et al. **J Commun Dis** 1989 Dec; 21(4):365–7

VETERINARY

Dracunculus insignis in ferrets: comparison of inoculation routes. Brandt FH, et al. **J Parasitol** 1990 Feb;76(1):93–5

DRACUNCULUS

GROWTH & DEVELOPMENT

Red Dracunculus medinensis. Eberhard ML, et al.
Am J Trop Med Hyg 1989 Oct;41(4):479–81

IMMUNOLOGY

Specific and cross-reacting antibodies in human responses to Onchocerca volvulus and Dracunculus medinensis infections. Garate T, et al. **Am J Trop Med Hyg** 1990 Feb; 42(2):140–7

PHYSIOLOGY

Involvement of Mesocyclops leuckarti (claus) in the transmission of guineaworm infection in Thane Distt., Maharashtra. Sharma SK, et al. **J Commun Dis** 1989 Dec; 21(4):365–7

Distribution, behavior, and course of patency of Dracunculus insignis in experimentally infected ferrets. Brandt FH, et al. **J Parasitol** 1990 Aug;76(4):515–8

DRACUNCULUS MEDINENSIS see **DRACUNCULUS**

DRAINAGE

Elective cholecystectomy without drainage and without prophylactic antibiotics. A prospective randomized trial with clinical and bacteriological aspects. Druart ML, et al. **Acta Chir Belg** 1990 May-Jun;90(3):79–85

Preoperative biliary drainage [letter] Lygidakis NJ.
Acta Chir Scand 1990 May;156(5):417

Choledochotomy for biliary lithiasis: is routine T-tube drainage necessary? A prospective controlled trial. Sheen-Chen SM, et al. **Acta Chir Scand** 1990 May;

156(5):387–90
Preoperative clindamycin treatment and vaginal drainage in hysterectomy. Munck AM, et al. **Acta Obstet Gynecol Scand** 1989;68(3):241–5
Renaissance of paracentesis in the treatment of ascites. Reynolds TB. **Adv Intern Med** 1990;35:365–73 (23 ref.)
Liposuction: optimizing factors. Goddio AS. **Aesthetic Plast Surg** 1989 Summer;13(3):173–8
Simple elective cholecystectomy: to drain or not. Lewis RT, et al. **Am J Surg** 1990 Feb;159(2):241–5 (40 ref.)
Preoperative percutaneous drainage of diverticular abscesses. Stabile BE, et al. **Am J Surg** 1990 Jan;159(1):99–104; discussion
Indications for placement of drains in the splenic fossa. Carmichael J, et al. **Am Surg** 1990 May;56(5):313–8
Drainage or suture of the cavity after breast biopsy [see comments] Law NW, et al. **Ann R Coll Surg Engl** 1990 Jan;72(1):11–3 Comment in: Ann R Coll Surg Engl 1990 May;72(3):213.
Hepatectomy without abdominal drainage. Results of a prospective study in 61 patients. Franco D, et al. **Ann Surg** 1989 Dec;210(6):748–50
How soon should drainage tubes be removed after cardiac operations? Smulders YM, et al. **Ann Thorac Surg** 1989 Oct;48(4):540–3
Randomised trial of early tapping in neonatal posthaemorrhagic ventricular dilatation. Ventriculomegaly Trial Group. **Arch Dis Child** 1990 Jan;65(1 Spec No):3–10
Subretinal hemorrhage management by pars plana vitrectomy and internal drainage. Wade EC, et al. **Arch Ophthalmol** 1990 Jul;108(7):973–8
Axillary lymphadenectomy. A prospective, randomized trial of 13 factors influencing drainage, including early or delayed arm mobilization. Petrek JA, et al. **Arch Surg** 1990 Mar;125(3):378–82
Management of anorectal abscesses: comparison between traditional incision and packing and de Pezzer catheter drainage. Kyle S, et al. **Aust N Z J Surg** 1990 Feb; 60(2):129–31
Use of streptokinase to aid in drainage of postoperative pericardial effusion. Cross JH, et al. **Br Heart J** 1989 Sep; 62(3):217–9
Management of the stump of the pancreas after distal pancreatic resection. Shankar S, et al. **Br J Surg** 1990 May; 77(5):541–4
Immediate drainage is not required for all patients with complicated parapneumonic effusions. Berger HA, et al. **Chest** 1990 Mar;97(3):731–5
Pyarthrosis of the knee. Treatment considerations. Lane JG, et al. **Clin Orthop** 1990 Mar;(252):198–204
Abdominal abscesses: ultrasound guided percutaneous therapy. Tsatalis JT, et al. **Del Med J** 1989 Aug;61(8):413–6
Effectiveness of endoscopic drainage for pancreas divisum: endoscopic and surgical results in 31 patients. Siegel JH, et al. **Endoscopy** 1990 May;22(3):129–33
Silicone tubes in glaucoma surgery: the effect of technical modifications on early postoperative intraocular pressures and complications. Rose GE, et al. **Eye** 1989;3 (Pt 5):553–61
Percutaneous cholecystostomy in acute acalculous cholecystitis. Berger H, et al. **Hepatogastroenterology** 1989 Oct;36(5):346–8
Hormonal responses to large paracentesis: are discordant results due to technologic differences? Rodés J. **Hepatology** 1990 Jun;11(6):1087–9
Prospective evaluation of thoracic–duct drainage in the treatment of respiratory failure complicating severe acute pancreatitis. Dugernier T, et al. **Intensive Care Med** 1989; 15(6):372–8
Effect of bile drainage from the choledochus on bacterial concentration. Chaimoff C, et al. **Isr J Med Sci** 1989 Dec; 25(12):723–5
Therapeutic approach to pericarditis in uremia. Gafter U, et al. **Isr J Med Sci** 1990 Feb;26(2):107–9
Bile duct stricture in an infant with gastroschisis treated by percutaneous transhepatic drainage, biliary stenting, and balloon dilation. Hancock BJ, et al. **J Pediatr Surg** 1989 Oct;24(10):1071–3
Is a drain necessary after colonic anastomosis? Johnson CD, et al. **J R Soc Med** 1989 Nov;82(11):661–4
Neonatal death despite fetal therapy for cystic adenomatoid malformation. A case report. Chao A, et al. **J Reprod Med** 1990 Jun;35(6):655–7
Indications for cisternal drainage in conjunction with early surgery in ruptured aneurysms and timing of its discontinuation. Yamamoto I, et al. **Neurol Med Chir (Tokyo)** 1989 May;29(5):407–13
The use of viscoelastic substances in the drainage of postoperative suprachoroidal hemorrhage [letter; comment] Shin DH, et al. **Ophthalmic Surg** 1989 Dec;20(12):895 Comment on: Ophthalmic Surg 1989 Jul;20(7):504–7.
Urinoma drainage for neonatal respiratory insufficiency. Hoffer FA, et al. **Pediatr Radiol** 1990;20(4):270–1
Cardiac tamponade complicating leukaemia: immediate chemotherapy or pericardiocentesis? Leung WH, et al. **Postgrad Med J** 1989 Oct;65(768):773–5
Percutaneous drainage of chest abscesses in children [letter; comment] Melhem RE. **Radiology** 1989 Nov;173(2):575–6 Comment on: Radiology 1989 May;171(2):431–4.
Endoscopic internal biliary drainage. Costamagna G, et al. **Rays** 1989 Apr–Jun;14(2):115–21
Percutaneous evacuation of abdominal abscesses and fluid collections—aspiration or catheter drainage? Vehmas T, et al. **Rontgenblatter** 1990 Mar;43(3):113–7
Endoscopic balloon dilation of the pylorus after esophagogastrostomy without a drainage procedure. Bemelman WA, et al. **Surg Gynecol Obstet** 1990 May; 170(5):424–6
Open treatment with drainage for ingrowing toenail. Nakajima T, et al. **Surg Gynecol Obstet** 1990 Mar; 170(3):223–4
Pretransplant portal venous administration of donor antigen and portal venous allograft drainage synergistically prolong rat cardiac allograft survival. Kamei T, et al. **Surgery** 1990 Aug;108(2):415–21; discussion 421–2
Spontaneous pneumothorax: comparison of simple drainage, talc pleurodesis, and tetracycline pleurodesis. Almind M, et al. **Thorax** 1989 Aug;44(8):627–30
Pleuroperitoneal shunt for recurrent malignant pleural effusions. Tsang V, et al. **Thorax** 1990 May;45(5):369–72
Unitary drainage bag. Heyman AM. **Urol Clin North Am** 1990 Feb;17(1):141–3
[Aspiration and sclerosing of a scrotal cyst; a simple ambulatory procedure (letter)] **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):554 **(Dut)**
[Percutaneous treatment of abscess of the kidney and retroperitoneum] Hélénon O, et al. **J Radiol** 1989 Oct; 70(10):541–8 (Eng. Abstr.) **(Fre)**
[Percutaneous drainage nephrostomy guided by ultrasound. Apropos of 80 adult cases] Delavierre D, et al. **J Urol (Paris)** 1989;95(6):319–29 (Eng. Abstr.) **(Fre)**
[External ventricular drainage in surgery of the posterior fossa in children (30 cases)] Gutknecht JL, et al. **Minerva Anestesiol** 1989 Apr;55(4):189–91 **(Fre)**
[Hepatic abscess. Diagnostic approach and therapeutic orientation] Geroni P, et al. **Minerva Chir** 1990 Apr 30; 45(8):585–8 (Eng. Abstr.) **(Ita)**
[Method of drainage of medium and small caverns in the lungs] Balramov VIa. **Probl Tuberk** 1989;(10):72–3 **(Rus)**
[Endoscopic papillosphincterotomy and nasobiliary drainage in the surgery of the organs of the hepato–pancreato–duodenal zone] Lutsevich EV, et al. **Sov Med** 1990;(4):87–90 **(Rus)**
[Nasobiliary drainage in choledocholithiasis and benign strictures of the common bile duct] Reviakin VI, et al. **Sov Med** 1989;(8):103–6 **(Rus)**
[Results of truncal and selective proximal vagotomies combined with stomach–draining surgery in ulcer–related pyloro–duodenal stenosis] Pantsyrev IuM, et al. **Vestn Khir** 1989 Aug;144(8):12–6 (Eng. Abstr.) **(Rus)**
[Results of the treatment of pyogenic hepatic abscess over a 10–year period] Yarmuch J, et al. **Acta Gastroenterol Latinoam** 1989;19(3):147–54 (Eng. Abstr.) **(Spa)**
[Criteria for the implantation of ventricular drainage in subarachnoid hemorrhage] Bartumeus Jené F. **Neurologia** 1990 Feb;5(2):39–40 **(Spa)**

ADVERSE EFFECTS

Complications from 0.018–in. floppy platinum–tip guidewires. Quinn SF, et al. **AJR Am J Roentgenol** 1990 May;154(5):1103–4
Complications of malpositioned Jones tubes. Bartley GB, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):66–9
Massive haemorrhage following endoscopic transgastric drainage of pancreatic pseudocyst. Donnelly PK, et al. **Br J Surg** 1990 Jul;77(7):758–9
Tube tamponade: potential pitfall in angiography of arterial hemorrhage associated with percutaneous drainage catheters. Routh WD, et al. **Radiology** 1990 Mar;174(3 Pt 2):945–9
Management of complex retinal detachments [letter] Flynn HW Jr, et al. **Retina** 1989;9(4):336–7
The Israeli Study of Surgical Infection of drains and the risk of wound infection in operations for hernia. Simchen E, et al. **Surg Gynecol Obstet** 1990 Apr;170(4):331–7
[Hemorrhage from bile duct drainage] Hofmann E, et al. **Radiologe** 1989 Sep;29(9):457–8 **(Ger)**
[Errors and complications in penetrating thoracic injuries] Abdulin AA, et al. **Grud Serdechnososudistaia Khir** 1990; (5):49–51 (Eng. Abstr.) **(Rus)**

HISTORY

Gotthard Bülau and closed water–seal drainage for empyema, 1875–1891. Meyer JA. **Ann Thorac Surg** 1989 Oct; 48(4):597–9
The history of surgical drainage. Hosgood G. **J Am Vet Med Assoc** 1990 Jan 1;196(1):42–4

INSTRUMENTATION

Monofilament modification to the Carey–Coons stent [letter] Sacks BA. **AJR Am J Roentgenol** 1989 Nov;153(5):1103–4
Use of the Hawkins–Hunter rocket wire in the biliary system. Shaw DW, et al. **AJR Am J Roentgenol** 1990 May; 154(5):1101–2
A new instrument for ab interno drainage of subretinal fluid. Michels M, et al. **Am J Ophthalmol** 1990 Mar 15; 109(3):360–1
Nylon threads used as drains in free skin grafting. Nakayama Y, et al. **Ann Plast Surg** 1990 Jan;24(1):91–5
A combination pick and flute needle. Peyman GA. **Arch Ophthalmol** 1989 Nov;107(11):1687
Clinical application of antithrombogenic hydrogel with long poly(ethylene oxide) chains. Nagaoka S, et al. **Biomaterials** 1990 Mar;11(2):119–21
New silicone tipped cannulas for subretinal fluid drainage. Grizzard WS, et al. **Br J Ophthalmol** 1989 Oct;73(10):838–9
A closed irrigation and drainage system for use with percutaneous abscess drainage: technical note. Palestrant AM, et al. **Cardiovasc Intervent Radiol** 1990 Apr–May; 13(2):119–21
New two–dimensional, echocardiographically directed pericardiocentesis in cardiac tamponade. Hanaki Y, et al. **Crit Care Med** 1990 Jul;18(7):750–3
Transhepatic endoprosthesis and surgical anastomosis in the palliative treatment of bile duct obstructions. Skjennald A, et al. **Eur J Radiol** 1989 Aug;9(3):167–8
A placebo–controlled study on the efficacy of aspirin and doxycycline in preventing clogging of biliary endoprostheses. Smit JM, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):485–9
The entrapped retrosternal drainage catheter. Nonoperative removal. Coselli JS. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):1000–1
Management of sucking chest wounds [comment] Lawrence BA. **J R Army Med Corps** 1990 Feb;136(1):64 Comment on: J R Army Med Corps 1989 Jun;135(2):94.
Implantation of a reservoir for drainage of a subdural hematoma [letter; comment] **Neurosurgery** 1990 Jun; 26(6):1087 Comment on: Neurosurgery 1989 Dec;25(6):991–6.
A temporary glaucoma valve for transient intraocular pressure elevation. Blasini M, et al. **Ophthalmic Surg** 1990 Mar;21(3):199–201
The controlled drainage of SRF [letter] Feretis EB. **Retina** 1989;9(4):337
A simple technique of T–tube insertion in transplantation of the liver. Ayalon A, et al. **Surg Gynecol Obstet** 1990 Mar; 170(3):249
A simple modification of closed suction drainage systems. Coit DG, et al. **Surg Gynecol Obstet** 1989 Nov; 169(5):449–50
Needle size for puncture of a Rickham reservoir [letter] Weiser HC, et al. **Surg Neurol** 1990 Mar;33(3):230
[Uses and risks of drainage following elective colon resection. A prospective, randomized and controlled clinical study] Hagmüller E, et al. **Chirurg** 1990 Apr;61(4):266–71 (Eng. Abstr.) **(Ger)**
[Percutaneous drainage of abdominal abscesses] Karnel F, et al. **Chirurg** 1989 Dec;60(12):846–50 **(Ger)**
[Biliary peritonitis following bile duct revision with T–drainage implantation—problems of choosing the right material] Walz M, et al. **Chirurg** 1990 May;61(5):409–10 **(Ger)**
["Lost" bile duct drain—nevertheless not lost (letter)] von Sanden H, et al. **Dtsch Med Wochenschr** 1990 Apr 20; 115(16):638 **(Ger)**
[Percutaneous puncture and drainage of pancreatic pseudocysts] Schwerk WB, et al. **Z Gastroenterol** 1989 Aug; 27(8):432–7 (Eng. Abstr.) **(Ger)**
[Clinical aspects, diagnosis and therapy of cancer of Vater's ampulla] Erdmann K, et al. **Z Gesamte Inn Med** 1989 Oct 15;44(20):617–21 (20 ref.) (Eng. Abstr.) **(Ger)**
[Risks of wound infection caused by drainage] Brunner W, et al. **Z Orthop** 1989 Jul–Aug;127(4):510–2 (Eng. Abstr.) **(Ger)**
[Weaknesses of conventional drainage systems] Härle A. **Z Orthop** 1989 Jul–Aug;127(4):513–7 (Eng. Abstr.) **(Ger)**
[Intestinal loop incarceration in the drainage canal. A rare cause of postoperative ileus] Tielmann HJ, et al. **Zentralbl Chir** 1989;114(20):1367–70 **(Ger)**
[Role of operative endoscopy in biliary neoplasia] Garbarini A, et al. **Minerva Chir** 1990 Apr 30;45(8):565–9 (Eng. Abstr.) **(Ita)**
[Use of Severini's coaxial catheters in gastrointestinal interventional radiology] Cozzi G, et al. **Radiol Med (Torino)** 1990 Jun;79(6):607–9 (Eng. Abstr.) **(Ita)**
[2,450MHz hyperthermia for malignant stenosis of the bile duct—development of a new biliary drainage tube united with a thermocouple] Yanagidaira H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Feb 25; 50(2):195–7 (Eng. Abstr.) **(Jpn)**
[A device for drainage of the abdominal cavity] Kuzin NM, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):130–1 **(Rus)**
[I.A. Sharipov's device for drainage of the pleural cavity] Sharipov IA. **Khirurgiia (Mosk)** 1990 May;(5):138–40 **(Rus)**
[A clamping drain for transcutaneous laparoscopic cholecystostomy] Taranenko LD, et al. **Klin Khir** 1989; (9):65 **(Rus)**
[A two–tube method of drainage of the abdominal cavity] Zatonskikh Bla. **Vestn Khir** 1990 Feb;144(2):107–8 **(Rus)**
[The Y–type drainage implant in surgery in neovascular glaucoma] Kuljača Z, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):649–53 **(Scc)**

METHODS

Choledochotomy: primary closure versus T–tube. A prospective trial. De Roover D, et al. **Acta Chir Belg** 1989 Nov–Dec;89(6):320–4
Percutaneous drainage of periappendiceal abscess in a patient with acute leukemia. Case report. Pitkäranta P, et al. **Acta Chir Scand** 1989 Nov–Dec;155(11–12):617–9
Preoperative biliary drainage [letter] Søreide O, et al.

Acta Chir Scand 1990 Mar;156(3):251–2

Ultrasonically guided percutaneous drainage of breast abscesses. Karstrup S, et al. Acta Radiol 1990 Mar; 31(2):157–9

Endovaginal sonography for guidance in draining pelvic fluid collections. Abbitt PL, et al. AJR Am J Roentgenol 1990 Apr;154(4):849–50

Percutaneous drainage of renal and perirenal abscesses: results in 30 patients. Deyoe LA, et al. AJR Am J Roentgenol 1990 Jul;155(1):81–3

Treatment of suppurative arthritis by percutaneous catheter drainage. Renner JB, et al. AJR Am J Roentgenol 1990 Jan;154(1):135–8

Left intercostal approach for percutaneous biliary drainage after right trisegmentectomy [letter] Walter RM, et al. AJR Am J Roentgenol 1990 Mar;154(3):656

Pericardial drainage [letter; comment] Spodick DH. Am Heart J 1990 Jun;119(6):1449–50 Comment on: Am Heart J 1989 Oct;118(4):857–9.

Hepatolithiasis and clogged endoprosthesis after endoscopic retrograde biliary drainage [letter] Takahashi T, et al. Am J Gastroenterol 1990 Sep;85(9):1204–5

Biliary extracorporeal shock wave lithotripsy and Meltzer–Lyon technique [letter] Tanida N, et al. Am J Gastroenterol 1990 Aug;85(8):1044–5

Percutaneous-endoscopic biliary stenting in patients with occluded surgical bypass. Tsang TK, et al. Am J Med 1990 Apr;88(4):344–8

Percutaneous catheter drainage of abdominal abscesses associated with perforated viscus. Flancbaum L, et al. Am Surg 1990 Jan;56(1):52–6

Large-volume paracentesis in treatment of ascites. Kellerman PS, et al. Ann Intern Med 1990 Jun 15;112(12):889–91 (31 ref.)

Experience of a permanent ventilation and drainage system in the management of purulent maxillary sinusitis. Berg O, et al. Ann Otol Rhinol Laryngol 1990 Mar;99(3 Pt 1):192–6

Surgery of giant bulla with tube drainage and bronchofiberoptic bronchial occlusion. Oizumi H, et al. Ann Thorac Surg 1990 May;49(5):824–5

Descending necrotizing mediastinitis: transcervical drainage is not enough. Wheatley MJ, et al. Ann Thorac Surg 1990 May;49(5):780–4 (36 ref.)

Central bronchogenic cyst: treatment by extrapleural percutaneous aspiration [clinical conference] Whyte MK, et al. BMJ 1989 Dec 9;299(6713):1457–8

A simplified method of draining pleural effusions [letter; comment] Banerjee AK. Br J Hosp Med 1990 Jan;43(1):82 Comment on: Br J Hosp Med 1989 Sep;42(3):231–3.

Abdominal drainage. Gunn AA. Br J Surg 1969 Apr; 56(4):274–6

Tubes for gastric aspiration after vagotomy. Hamer D, et al. Br J Surg 1969 Apr;56(4):270–4

Management of severe acute cholangitis. Lai EC. Br J Surg 1990 Jun;77(6):604–5 (7 ref.)

Ascites after pleuroperitoneal shunting. Roukema JA, et al. Cancer 1990 Aug 15;66(4):675–6

Transnasogastric drainage of a perforated duodenal ulcer: technical note. Sheline M, et al. Cardiovasc Intervent Radiol 1990 Feb–Mar;13(1):55–6

Successful novel drainage treatment of mediastinal abscess complicating tracheostomy. Watanakunakorn C. Chest 1989 Oct;96(4):946–8

Abdominal fluid collections: percutaneous aspiration and drainage. Cohen MI, et al. Clin Diagn Ultrasound 1988; 23:237–60 (19 ref.)

Ultrasound-guided percutaneous drainage of deep neck abscesses. Baatenburg de Jong RJ, et al. Clin Otolaryngol 1990 Apr;15(2):159–66

Percutaneous biliary drainage for malignancy—an expanding field. Adam A. Clin Radiol 1990 Apr;41(4):225–7 (19 ref.)

Ultrasound guided fine needle aspiration of ovarian cysts: diagnosis and treatment in pregnant and non-pregnant women. Khaw KT, et al. Clin Radiol 1990 Feb;41(2):105–8

Percutaneous drainage of a diverticular abscess can make colostomy unnecessary in selected cases. Sparks FC, et al. Conn Med 1990 Jun;54(6):305–7

Biopsy, nonvascular balloon dilation, and percutaneous drainage. Kerlan R. Curr Opin Radiol 1990 Apr;2(2):300–8 (38 ref.)

Pelvic drainage [letter] Miller JM. Dis Colon Rectum 1989 Oct;32(10):904

Horseshoe abscess fistula. Seton treatment. Ustynoski K, et al. Dis Colon Rectum 1990 Jul;33(7):602–5

Seton management of complex anorectal fistulas in patients with Crohn's disease. White RA, et al. Dis Colon Rectum 1990 Jul;33(7):587–9

Endoscopic placement of expandable metal stents for biliary strictures—a preliminary report on experience with 33 patients. Huibregtse K, et al. Endoscopy 1989 Nov; 21(6):280–2

Neonatal pneumothorax drainage systems: in vitro evaluation. Bakker JC, et al. Eur J Pediatr 1989 Oct;149(1):58–61

Percutaneous catheter drainage of multiple pyogenic liver abscesses: a case report. Peer A, et al. Eur J Radiol 1990 Jan–Feb;10(1):35–7

Endoscopic biliary drainage in chronic pancreatitis. Devière J, et al. Gastrointest Endosc 1990 Mar–Apr;36(2):96–100

The biliogastric shunt: a method for simultaneous internal diversion of bile and enteric feeding in patients with cancer. Foutch PG, et al. Gastrointest Endosc 1989 Sep–Oct; 35(5):440–2

Ultrasonically guided percutaneous drainage of abdominal fluid collections: a long-term study of its therapeutic efficacy. Civardi G, et al. Gastrointest Radiol 1990 Summer; 15(3):245–50

Pancreatic duct drainage in chronic pancreatitis. Prinz RA, et al. Hepatogastroenterology 1990 Jun;37(3):295–300

Drainage implant surgery for refractory glaucoma. Lieberman MF, et al. Int Ophthalmol Clin 1990 Summer; 30(3):198–208 (35 ref.)

Closure of cystic duct stump leak by nasobiliary tube drainage. Barthel JS, et al. J Clin Gastroenterol 1989 Oct; 11(5):574–7

CT-guided extrapleural drainage of bronchogenic cyst. Adam A, et al. J Comput Assist Tomogr 1989 Nov–Dec; 13(6):1065–8

New technique for treating pseudocyst of the auricle. Zhu LX, et al. J Laryngol Otol 1990 Jan;104(1):31–2

Radiological seminar CCXLVI: percutaneous abscess drainage (PAD). Cranston PE. J Miss State Med Assoc 1990 May;31(5):153–7

A closed drainage system for head and neck sepsis. Peckitt NS, et al. J Oral Maxillofac Surg 1990 Jul;48(7):758–9

Pericardio-peritoneal shunt for malignant pericardial effusion [letter] Griffin S, et al. J Thorac Cardiovasc Surg 1989 Dec; 98(6):1153–4

Sonographically guided arthrocentesis of the hip. Mayekawa DS, et al. J Ultrasound Med 1989 Dec;8(12):665–7

Implantation of a reservoir for recurrent subdural hematoma drainage [see comments] Laumer R, et al. Neurosurgery 1989 Dec;25(6):991–6 Comment in: Neurosurgery 1990 Jun;26(6):1087.

Long-term comparative study of the Schocket and Joseph glaucoma tube shunts in monkeys. Peiffer RL, et al. Ophthalmic Surg 1990 Jan;21(1):55–9

Comparison between intermittent (spring-loaded) and continuous closed suction drainage of orthopedic wounds: a controlled clinical trial. Berman AT, et al. Orthopedics 1990 Mar;13(3):309–14

Peritonsillar abscess. Why aggressive management is appropriate. Petruzzelli GJ, et al. Postgrad Med 1990 Aug; 88(2):99–100, 103–5, 108

Pleural interventions. Indications, techniques, and clinical applications. Silverman SG, et al. Radiol Clin North Am 1989 Nov;27(6):1257–66 (25 ref.)

The pump maneuver: an atraumatic adjunct to enhance US needle tip localization. Bisceglia M, et al. Radiology 1990 Sep;176(3):867–8

Renal, perirenal, and pararenal abscesses: percutaneous drainage. Lang EK. Radiology 1990 Jan;174(1):109–13

Infected abdominal tumors: percutaneous catheter drainage. Mueller PR, et al. Radiology 1989 Dec;173(3):627–9

Tubo-ovarian abscesses: CT-guided percutaneous drainage. Tyrrel RT, et al. Radiology 1990 Apr;175(1):87–9

Ultrasound-guided percutaneous transhepatic cholangiography and drainage in patients with hilar cholangiocarcinoma. Laméris JS, et al. Semin Liver Dis 1990 May;10(2):121–5

Experience with endoscopic biliary drainage in Singapore. Guan R, et al. Singapore Med J 1990 Jun;31(3):221–4

Endoscopic retrograde cholangiopancreatography, endoscopic sphincterotomy, and biliary drainage. Ghazi A, et al. Surg Clin North Am 1989 Dec;69(6):1249–74

A modified technique of ultrasonically guided percutaneous transhepatic biliary drainage. Das K, et al. Surg Endosc 1989;3(4):191–4

Endoscopic fistulotomy and biliary drainage as the ultimate palliative treatment for obstruction due to malignant tumors of the papilla of Vater. Feretis C, et al. Surg Endosc 1990; 4(2):88–90

Technique for high volume drainage beneath large tissue flaps. Kern KA. Surg Gynecol Obstet 1990 Jan;170(1):70

Retroperitoneal and peritoneal drainage and lavage in the treatment of severe necrotizing pancreatitis. Pederzoli P, et al. Surg Gynecol Obstet 1990 Mar;170(3):197–203

A new technique for decompression of the biliary tract. Silk YN, et al. Surg Gynecol Obstet 1989 Dec;169(6):546–8

Suction drainage of wounds of the head and neck. Tenta LT, et al. Surg Gynecol Obstet 1989 Dec;169(6):558

Severe acute cholangitis: the role of emergency nasobiliary drainage. Lai EC, et al. Surgery 1990 Mar;107(3):268–72

Alternate approaches to pelvic abscess drainage after cystectomy. Place C, et al. Urol Radiol 1989;11(3):161–4

Percutaneous management of postoperative lymphocele. Heyman JH, et al. Urology 1989 Oct;34(4):221–4

Imaging intraabdominal abscesses and nonoperative drainage procedures. Haaga JR. World J Surg 1990 Mar–Apr; 14(2):204–9 (41 ref.)

Peritoneal drainage and ileostomy as a treatment for the acute necrotising enterocolitis. Legat C, et al. Z Kinderchir 1989 Oct;44(5):315–7

Obstructive jaundice in Kawasaki's disease. Luzzatto C, et al. Z Kinderchir 1990 Feb;45(1):50–1

[A method for a permanent lymphovenous shunt in external drainage of the thoracic duct with and without lymphosorption] Atanasov D, et al. Khirurgiia (Sofiia) 1989; 42(6):36–9 (Bul)

[Transhepatic laparoscopic puncture in hydrops of the gallbladder with drainage of the subhepatic space] Ivanov S. Khirurgiia (Sofiia) 1989;42(3):103–6 (Eng. Abstr.) (Bul)

[Percutaneous transhepatic drainage of the bile ducts] Cernoch J. Cas Lek Cesk 1990 Jun 22;129(25):782–6 (Eng. Abstr.) (Cze)

[Percutaneous transhepatic bile duct drainage, 10 years after its introduction] Gouma DJ, et al. Ned Tijdschr Geneeskd 1989 Dec 16;133(50):2494–9 (71 ref.) (Dut)

[Percutaneous transhepatic bile duct drainage, 10 years following its introduction (letter)] Miranda SI. Ned Tijdschr Geneeskd 1990 Feb 10;134(6):306 (Dut)

[The role of interventional radiology in the treatment of pancreatic pseudocysts] Valette PJ, et al. Ann Chir 1990; 44(1):63–5 (Fre)

[X-ray computed tomography and percutaneous drainage change the indications for reoperation after digestive surgery] Werner P, et al. Ann Fr Anesth Reanim 1990; 9(3):261–4 (Eng. Abstr.) (Fre)

[Icterus caused by non-resectable neoplastic obstacle: to drain or not to drain?] Delcenserie R. Gastroenterol Clin Biol 1990;14(2):113–4 (Fre)

[Obstructive icterus in patients with hepatic tumor. Result of non-surgical biliary drainage] Hagege H, et al. Gastroenterol Clin Biol 1990;14(2):115–9 (Eng. Abstr.) (Fre)

[Subdural hematoma in infants. Indications and results of external subdural derivation] Maheut J, et al. Neurochirurgie 1989;35(6):401–3, 411 (Eng. Abstr.) (Fre)

[Delayed-action drainage. A device for the reduction of postoperative blood loss in surgery of the spine] Pouliquen JC, et al. Presse Med 1990 Mar 10;19(9):426–7 (Eng. Abstr.) (Fre)

[Percutaneous drainage treatment of abscess and fluid retention following abdominal surgery] Berger H, et al. Chirurg 1989 Dec;60(12):873–7 (Eng. Abstr.) (Ger)

[Seroma formation and drainage technic following mastectomy] Menton M, et al. Fortschr Med 1990 Jun 20; 108(18):350–2 (Eng. Abstr.) (Ger)

[Prepartal puncture of fetal ovarian cysts—an alternative to ovariectomy in newborn infants?] Ostermayer E, et al. Gynakol Rundsch 1989;29 Suppl 2:265–7 (Ger)

[Successes and failures of CT-guided percutaneous drainage of abdominal abscesses] Bock A, et al. Radiol Diagn (Berl) 1990;31(2):135–43 (Ger)

[CT-guided percutaneous puncture and drainage of pericardial effusion] Sandring KH, et al. Radiol Diagn (Berl) 1989;30(6):643–6 (Eng. Abstr.) (Ger)

[Percutaneous drainage of abscesses after stomach surgery] Grote R, et al. ROFO 1989 Sep;151(3):284–8 (Eng. Abstr.) (Ger)

[The results and complications of 616 percutaneous transhepatic biliary drainages] Schild H, et al. ROFO 1989 Sep;151(3):289–93 (Eng. Abstr.) (Ger)

[Radiologic therapy of symptomatic lymphoceles following kidney transplantation] Schurawitzki H, et al. ROFO 1990 Jan;152(1):71–5 (Eng. Abstr.) (Ger)

[Multiple amebic liver abscesses: ultrasound diagnosis and ultrasound-controlled puncture] Trautmann M, et al. Ultraschall Med 1990 Jun;11(3):142–5 (Eng. Abstr.) (Ger)

[Percutaneous drainage of recurrent peripancreatic fluid collections in acute pancreatitis. A case report] Habscheid W, et al. Z Gastroenterol 1989 Nov;27(11):690–2 (Eng. Abstr.) (Ger)

[The subphrenic abscess. Surgical and/or percutaneous drainage] Humann B, et al. Zentralbl Chir 1989; 114(16):1072–80 (Eng. Abstr.) (Ger)

[Internal drainage surgery in pancreatic pseudocysts] Schröder H, et al. Zentralbl Chir 1989;114(22):1451–8 (Eng. Abstr.) (Ger)

[Palliation of malignant bile duct obstruction] Eitan A, et al. Harefuah 1990 Mar 1;118(5):252–4 (Eng. Abstr.) (Heb)

[Amebic liver abscess. Experience with 2 surgically treated cases] Guarasci N, et al. Minerva Chir 1989 Sep 30; 44(18):2021–5 (17 ref.) (Eng. Abstr.) (Ita)

[The current role of Kehr drainage] Rumi A, et al. Minerva Med 1989 Aug;80(8):889–92 (Ita)

[A case of emphysematous pyelonephritis with septic shock recovered by transurethral drainage of pelvis] Okamoto T, et al. Hinyokika Kiyo 1989 May;35(5):851–6 (14 ref.) (Eng. Abstr.) (Jpn)

[Thoracic duct drainage pretreatment and low dose cyclosporine and low dose steroid immunosuppressive treatment in living related kidney transplantation] Ohshima S, et al. Nippon Hinyokika Gakkai Zasshi 1990 Feb; 81(2):225–9 (Eng. Abstr.) (Jpn)

[Thoracic duct drainage pretreatment in living related kidney transplantation—long-term results of low dose steroid and azathioprine immunosuppression] Ono Y, et al. Nippon Hinyokika Gakkai Zasshi 1990 Feb;81(2):221–4 (Eng. Abstr.) (Jpn)

[Surgical treatment of severe acute pancreatitis—indication for surgery and operative method] Miyazaki I, et al. Nippon Rinsho 1990 Jan;48(1):189–94 (Jpn)

[The experience of severe complication in the surgical treatment of chronic subdural hematoma: the usefulness of the burr hole and continuous closed system drainage] Yamada H, et al. No Shinkei Geka 1989 Aug;17(8):713–6 (Eng. Abstr.) (Jpn)

[Use of pleuradren] Solheim K, et al. Tidsskr Nor Laegeforen 1990 Feb 10;110(4):501–2 (Nor)

[Surgical treatment of retinal detachment with and without puncture of the subretinal space] Gierek-Łapińska A, et

al. **Klin Oczna** 1989 Oct–Dec;91(10–12):225–7 (Eng. Abstr.) (Pol)

[Surgical treatment of intracranial arachnoid cysts] Bidziński J, et al. **Neurol Neurochir Pol** 1989 Jul–Dec;23(4–6):322–31 (Eng. Abstr.) (Pol)

[Two-step removal of Kehr's drain from the common bile duct] Bielecki K. **Wiad Lek** 1989 Mar 1;42(5):292–4 (Eng. Abstr.) (Pol)

[Effect od external drainage of the biliary tract on bile infection] Kubiak J, et al. **Wiad Lek** 1990 Apr 15; 43(8):318–23 (Eng. Abstr.) (Pol)

[Treatment of intra-abdominal abscesses by percutaneous drainage under ultrasonographic control] Wiszniewski P, et al. **Wiad Lek** 1989 Jul 1–15;42(13–15):891–4 (Eng. Abstr.) (Pol)

[Trabeculectomy with intrascleral drainage] Medelet E. **Rev Chir [Oftalmol]** 1989 Jul–Sep;33(3):223–5 (Eng. Abstr.) (Rum)

[Surgical treatment of injuries of the intrahepatic bile ducts] Driazhenkov GI, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):30–4 (Eng. Abstr.) (Rus)

[Closed automatic programmed aspiration-irrigation method in the treatment of abdominal abscesses] Kanshin NN, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):43–6 (Eng. Abstr.) (Rus)

[External drainage of the pancreatic duct after pancreatoduodenal resection] Seidov VD, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):134–5 (Rus)

[External drainage of the bile ducts via the stump of the cystic duct to prevent postoperative complications in elderly patients] Ashrafov AA. **Klin Khir** 1989;(9):37–8 (Eng. Abstr.) (Rus)

[A method of external drainage of the stomach and intestines in peritonitis] Bandura AI, et al. **Klin Khir** 1990;(1):75 (Rus)

[Substantiation of optimal combination of external drainage of the thoracic duct, lymphosorption and hemosorption in the complex treatment of patients with destructive pancreatitis] Bondarev VI, et al. **Klin Khir** 1989;(11):7–9 (Eng. Abstr.) (Rus)

[External drainage of the bile ducts] Mazurik SM. **Klin Khir** 1989;(9):45–9 (60 ref.) (Rus)

[A method for draining the common bile duct] Tatarshaov MKh, et al. **Klin Khir** 1989;(9):64–5 (Rus)

[Acute phlegmonous appendicitis associated with a complicated right-sided tubal pregnancy and cyst of the right ovary] Vil'chuk AV, et al. **Klin Khir** 1990;(4):74 (Rus)

[Computerized tomography in the evaluation of the outcome of of the treatment of lung abscess by long-term nasobronchial catheterization] Kabanov AN, et al. **Sov Med** 1989;(11):63–5 (Rus)

[Technical characteristics of small-pelvic drainage through the obturator foramen] Larionova TA. **Vestn Khir** 1989 Nov;143(11):129–32 (Rus)

[Drainage of the abdominal cavity after cholecystectomy] Myshkin KI, et al. **Vestn Khir** 1990 Feb;144(2):108–9 (Rus)

[Increasing the effectiveness of lymphosorption in patients with mechanical jaundice] Veronskii GI, et al. **Vestn Khir** 1989 Aug;144(8):29–33 (Eng. Abstr.) (Rus)

[Inflow-suction drainage in the combined treatment of chronic osteomyelitis] Didunov AI, et al. **Voen Med Zh** 1989 Jul;(7):61–3 (Rus)

[Drainage of the pericystic cavity in echinococcosis of the liver] Cenić G, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:572–4 (Eng. Abstr.) (Scr)

[Continuous closed-system catheter drainage in the treatment of chronic subdural hematoma] Custović K, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:728–9 (Eng. Abstr.) (Scr)

[Comparison of results between the Robinson method of drainage and marsupialization] Limani D, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:595–7 (Scr)

[The significance of nonsurgical bile duct drainage in patients with icterus] Paškan J, et al. **Rozhl Chir** 1990 Feb;69(2):71–6 (Eng. Abstr.) (Slo)

[Endoscopic drainage of pancreatic pseudocyst: report of a case] Guelrud M, et al. **GEN** 1988 Apr–Jun;42(2):66–9 (Eng. Abstr.) (Spa)

NURSING

Nursing management of lumbar drains. Clevenger V. **J Neurosci Nurs** 1990 Aug;22(4):227–31

TRENDS

[Changing trends in percutaneous and endoscopic bile duct drainage] Münster B, et al. **Radiol Diagn (Berl)** 1989; 30(5):593–7 (Eng. Abstr.) (Ger)

DRAINAGE, POSTURAL

[The efficacy of postural therapy in patients with fresh and recurrent destructive pulmonary tuberculosis] Fraĭt VM. **Vrach Delo** 1989 Dec;(12):43–4 (Eng. Abstr.) (Rus)

INSTRUMENTATION

[Contralateral paranasal sinus drainage using the Bernoulli principle instead of penetrating puncture of the maxillary sinus] Sauer H. **Laryngorhinootologie** 1989 Aug;68(8):478–9 (Ger)

METHODS

With tubing, position is everything [letter] Deryke T. **Geriatr Nurs (New York)** 1990 Jul–Aug;11(4):170

[Postural drainage: "a useful medicine in pneumology"] Rascarache I. **Rev Med Chir Soc Med Nat Iasi** 1989 Oct–Dec;93(4):657–8 (Rum)

DRAINAGE, SUCTION see **SUCTION**

DRAMA see under **LITERATURE**

DREAMS

Critique of a critique [letter] Berman S. **Am J Psychiatry** 1967 Aug;124(2):261–2

Case study: the illustrative nightmare of a young borderline woman. O'Neill RM. **Am J Psychoanal** 1990 Mar;50(1):71–4

Interserial and intraserial interference processes in morning recall of mental sleep experience. Fagioli I, et al. **Am J Psychol** 1989 Fall;102(3):307–20

Violence in sleep: a further diagnostic consideration [letter; comment] Morehouse RL. **Br J Psychiatry** 1989 May; 154:729–30 Comment on: Br J Psychiatry 1988 Nov;153:692–4.

Dreams and suicidal behaviour. Evans AL. **Crisis** 1990 May; 11(1):12–9 (14 ref.)

Depression: variability of intrapsychic and sleep parameters. Greenberg R, et al. **J Am Acad Psychoanal** 1990 Summer; 18(2):233–46

Dream frequency and treatment outcome in psychoanalysis and in psychoanalytic psychotherapy [letter] Myers WA, et al. **J Am Psychoanal Assoc** 1989;37(4):1123–4

Dream frequency in psychoanalysis and psychoanalytic psychotherapy. Myers WA, et al. **J Am Psychoanal Assoc** 1989;37(3):715–25

Reply to Louis A. Sass and Robert L. Woolfolk [letter] Spence DP. **J Am Psychoanal Assoc** 1989;37(4):1128–30

Treatment of recurrent nightmares by the dream reorganization approach. Palace EM, et al. **J Behav Ther Exp Psychiatry** 1989 Sep;20(3):219–26

Sex differences in east African dreams of aggression. Munroe RL, et al. **J Soc Psychol** 1989 Oct;129(5):727–8

Dream images as a technique for the study of creative processes. Gaines R, et al. **Percept Mot Skills** 1990 Apr; 70(2):540–2

Metaliteral dreaming: a right hemisphere dominant linguistic activity. Arenson K. **Psychiatr J Univ Ott** 1990 Jun; 15(2):100–6 (19 ref.)

Nightmares in crisis: clinical applications of lucid dreaming techniques. Brylowski A. **Psychiatr J Univ Ott** 1990 Jun; 15(2):79–84

Coping with stress: dream interpretation in the Mapuche family. Degarrod LN. **Psychiatr J Univ Ott** 1990 Jun; 15(2):111–6

Language learning efficiency, dreams and REM sleep. De Koninck J, et al. **Psychiatr J Univ Ott** 1990 Jun;15(2):91–2

Dreams and imaginative processes in American and Balinese artists. Gaines R, et al. **Psychiatr J Univ Ott** 1990 Jun; 15(2):107–10

The boundary characteristics of lucid dreamers. Galvin F. **Psychiatr J Univ Ott** 1990 Jun;15(2):73–8

Waking dreams and other metachoric experiences. Green C. **Psychiatr J Univ Ott** 1990 Jun;15(2):123–8

Boundaries of dreams, boundaries of dreamers: thin and thick boundaries as a new personality measure. Hartmann E. **Psychiatr J Univ Ott** 1989 Nov;14(4):557–60

Dream recall: imagination, illusion and tough-mindedness. Moffitt A, et al. **Psychiatr J Univ Ott** 1990 Jun;15(2):66–72

The 'dream-lag' effect: a 6-day temporal delay in dream content incorporation. Nielsen TA, et al. **Psychiatr J Univ Ott** 1989 Nov;14(4):561–5

Our unacknowledged ancestors: dream theorists of antiquity, the middle ages, and the renaissance. Rupprecht CS. **Psychiatr J Univ Ott** 1990 Jun;15(2):117–22

Wagner's midsummer night's dream. Gabbard GO, et al. **Psychoanal Rev** 1989 Winter;76(4):543–56

Experiences of phantom limb sensations in dreams. Frank B, et al. **Psychopathology** 1989;22(4):182–7

[Paul Valéry's observations on dreams or the start of "after Freud"] Girardet P. **Rev Med Suisse Romande** 1989 Sep; 109(9):749–58 (Fre)

[An early, on the borderline between dream and transference, unconscious fantasy of Freud on the psychoanalytic situation (1898). A contribution to psychoanalytic creativity] Danckwardt JF. **Psyche (Stuttg)** 1989 Sep; 43(9):849–83 (Eng. Abstr.) (Ger)

[Delusion and dreams in "Death in Venice". Thomas Mann's consequential reading of Freud in 1911] Dierks M. **Psyche (Stuttg)** 1990 Mar;44(3):240–68 (Eng. Abstr.) (Ger)

[Irma—Emma—Martha—Anna. Some additional comments on presentations by K. R. Eissler and H. Thomä] Peters UH. **Psyche (Stuttg)** 1989 Sep;43(9):830–48 (Eng. Abstr.) (Ger)

[Functions of the dream—I] Strunz F. **Psychother Psychosom Med Psychol** 1989 Aug;39(8):282–93 (0 ref.) (Eng. Abstr.) (Ger)

[Functions of dreams—II] Strunz F. **Psychother Psychosom Med Psychol** 1989 Sep–Oct; 39(9–10):356–64 (217 ref.) (Ger)

[Dreams as a sign of change in alexithymia in psychosomatic patients] Trijsburg RW. **Psychother Psychosom Med Psychol** 1989 Dec;39(12):471–5 (Eng. Abstr.) (Ger)

[The dream of Irma's injection. Theme polyphony and problem solving] Strunz F. **Z Psychosom Med Psychoanal** 1990;36(1):39–61 (Eng. Abstr.) (Ger)

DRUG EFFECTS

Delirium tremens and dreaming. Greenberg R, et al. **Am J Psychiatry** 1967 Aug;124(2):133–42

Investigations of morning and laboratory dream recall and content in depressive patients during baseline conditions and under antidepressive treatment with trimipramine. Riemann D, et al. **Psychiatr J Univ Ott** 1990 Jun;15(2):93–9

PHYSIOLOGY

Sleep disturbance in posttraumatic stress disorder [letter] **Am J Psychiatry** 1990 Mar;147(3):374–5

Electroencephalographic sleep in schizophrenia: a critical review. Keshavan MS, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):34–47 (83 ref.)

Evoked potentials during REM sleep reflect dreaming. Miyauchi S, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):19–28

Cyclical changes in emotional information processing in sleep and dreams. Severino SK, et al. **J Am Acad Psychoanal** 1989 Winter;17(4):555–77 (39 ref.)

Sleep and dreaming. Hobson JA. **J Neurosci** 1990 Feb; 10(2):371–82 (125 ref.)

On the neuropsychology of dreams. Miller L. **Psychoanal Rev** 1989 Fall;76(3):375–401 (65 ref.)

[Dream interpretation and experimental dream research: a comparison] Riemann D. **Z Psychosom Med Psychoanal** 1990;36(1):21–38 (63 ref.) (Eng. Abstr.) (Ger)

PSYCHOLOGY

Sleep paralysis and hypnagogic hallucinations. Their relationship to the nightmare. Liddon SC. **Arch Gen Psychiatry** 1967 Jul;17(1):88–96 (67 ref.)

The prevalence of nightmares and their independence from anxiety. Wood JM, et al. **J Abnorm Psychol** 1990 Feb; 99(1):64–8

Relations among nightmare frequency and ego strength, death anxiety, and sex of college students. Levin R. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1107–13

Association for the Study of Dreams. Sixth Annual International Dream Conference. July 25–29, 1989, London, England. Proceedings. **Psychiatr J Univ Ott** 1990 Jun;15(2):65–128

How are dreams made? Towards a computational model. Baylor GW, et al. **Psychiatr J Univ Ott** 1989 Nov; 14(4):566–71

Hypnotic susceptibility and dream characteristics. Zamore N, et al. **Psychiatr J Univ Ott** 1989 Nov;14(4):572–4

[Dreams and schizophrenia: a qualitative analysis] Torre E, et al. **Minerva Psichiatr** 1990 Jan–Mar;31(1):13–9 (Eng. Abstr.) (Ita)

[Anorexia nervosa: study method and sleep analysis] Cervera S, et al. **Rev Esp Fisiol** 1989;45 Suppl:265–78 (Eng. Abstr.) (Spa)

DRESSINGS see **BANDAGES**

DRESSINGS, OCCLUSIVE see **OCCLUSIVE DRESSINGS**

DRG DIAGNOSTIC RELATED GROUPS see **DIAGNOSTIC RELATED GROUPS**

DRILL see **PAPIO**

DRINKING

Volatile fatty acid production in the rumen of Bedouin goats: effect of drinking, food quality and feeding time. Brosh A, et al. **Acta Vet Scand Suppl** 1989;86:140–2

Effect of water intake on the progression of chronic renal failure in the 5/6 nephrectomized rat. Bouby N, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F973–9

Brain glucoprivation and ketoprivation do not promote ingestion in the suckling rat pup. Leshem M, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R365–75

Responses to dehydration and rehydration during heat exposure in young and older men. Miescher E, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1050–6

Physiological correlates of schedule-induced activities in rats. Mittleman G, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R485–91

Calcium deprivation increases salt intake. Tordoff MG, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R411–9

Dependent effect of drinking volume on vasopressin but not atrial peptide in humans. Williams TD, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R762–4

Psychogenic polydipsia revisited [letter] Kubacki A. **Am J Psychiatry** 1990 Jun;147(6):815

Ingestion of liquids compared with preoperative fasting in pediatric outpatients [see comments] Schreiner MS, et al. **Anesthesiology** 1990 Apr;72(4):593–7 Comment in: Anesthesiology 1990 Apr;72(4):589–92.

Limited compensation by table salt for reduced salt within a meal. Shepherd R, et al. **Appetite** 1989 Dec;13(3):193–200

Polydipsia in the chronically mentally ill: a review. Boyd

MA. **Arch Psychiatr Nurs** 1990 Jun;4(3):166–75 (97 ref.)
Effect on blood, liver, and kidney variables of age and of dosing rats with lead acetate orally or via the drinking water. Korsrud GO, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:151–66
Effect of diet on the response in rats to lead acetate given orally or in the drinking water. Korsrud GO, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:167–73
Feeding aids. Connolly MJ, et al. **BMJ** 1990 Aug 18–25; 301(6748):378–9
Effects of water restriction and water loading on daily urinary excretion of heavy metals and organic substances in metal workers. Araki S, et al. **Br J Ind Med** 1989 Jun; 46(6):389–92
Egg shell quality responses of pullets given saline drinking water at different ages. Yoselewitz I, et al. **Br Poult Sci** 1989 Sep;30(3):715–8
Chronic ethanol ingestion selectively affects memory modulation in rats. Dalmaz C, et al. **Braz J Med Biol Res** 1989;22(3):403–6
Effect of brain natriuretic peptide on dehydration- or angiotensin II-induced water intake in rats. Fregoneze JB, et al. **Braz J Med Biol Res** 1989;22(6):765–8
Clear fluids three hours before surgery do not affect the gastric fluid contents of children. Splinter WM, et al. **Can J Anaesth** 1990 Jul;37(5):498–501
Fluid replacement drinks during high intensity exercise: effects on minimizing exercise-induced disturbances in homeostasis. Powers SK, et al. **Eur J Appl Physiol** 1990; 60(1):54–60
Influence of fluid intake on endurance running performance. A comparison between water, glucose and fructose solutions. Williams C, et al. **Eur J Appl Physiol** 1990; 60(2):112–9
Daily U intake in Utah residents from food and drinking water. Singh NP, et al. **Health Phys** 1990 Sep;59(3):333–7
HTO oral administration in mice. I: Threshold dose rate for haematopoietic death. Yamamoto O, et al. **Int J Radiat Biol** 1990 Mar;57(3):543–9
Depression, episodic behavioral dyscontrol, and polydipsia following right temporal lobe damage. Rubenstein JL, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May; 29(3):472–4
Successful behavioral treatment of polydipsia in a schizophrenic patient. Bowen L, et al. **J Behav Ther Exp Psychiatry** 1990 Mar;21(1):53–61
Anticipation of future food: suppression and facilitation of saccharin intake depending on the delay and type of future food. Lucas GA, et al. **J Exp Psychol [Anim Behav]** 1990 Apr;16(2):169–77
Danger at the waterhole. Purdy JE. **J Gen Psychol** 1990 Jan;117(1):107–13
Impact of source of drinking water on fluoride supplementation. Tate WH, et al. **J Pediatr** 1990 Sep; 117(3):419–21
Aluminium deposition in bone after contamination of drinking water supply. Eastwood JB, et al. **Lancet** 1990 Aug 25;336(8713):462–4
Effects of glycerol-induced hyperhydration prior to exercise in the heat on sweating and core temperature. Lyons TP, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):477–83
Efficiency and persistence of licking in rats. Buxton A, et al. **Physiol Behav** 1990 Feb;47(2):239–47
A new gustometer for psychophysical taste testing in the rat. Spector AC, et al. **Physiol Behav** 1990 Apr; 47(4):795–803
Effects of the presence or absence of satellite chick-waterers in conjunction with nipple-drinkers on the mortality and productive performance of broiler chicks from young and old dams. Carpenter GH, et al. **Poult Sci** 1990 Jan; 69(1):45–7
Characteristics of circadian rhythm of wheel-running activity and drinking behavior in Mongolian gerbils. Umezu T, et al. **Yakubutsu Seishin Kodo** 1989 Dec;9(4):369–73
[Increase of vertebral bone density in heavy drinkers of mineral water with a high fluoride content] Meunier PJ, et al. **Presse Med** 1989 Sep 23;18(29):1423–6 (Eng. Abstr.) **(Fre)**
[A simple apparatus for controllable drinking without leaks for laboratory rats] Huber D. **Z Versuchstierkd** 1989; 32(4):179–82 (Eng. Abstr.) **(Ger)**
[A study on the effect of water intake of umpires during a baseball game in a summer-heat environment] Kurakake S, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1120–7 (Eng. Abstr.) **(Jpn)**
[Effects of continuous infusion of vasopressin on circadian rhythms of food and water intake, urine output and electrolyte excretion in Brattleboro rats] Stolnev AG, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):109–11 (Eng. Abstr.) **(Rus)**
[Results of the International Program of Drinking Water Supply in the first half of the decade] Rakhmanin IuA, et al. **Gig Sanit** 1989 Jul;(7):45–50 (13 ref.) **(Rus)**

DRUG EFFECTS

Effects of serotonin uptake blockers and of 5-hydroxytryptophan on the voluntary consumption of ethanol, water and solid food by UChA and UChB rats. Alvarado R, et al. **Alcohol** 1990 Jul–Aug;7(4):315–9
Adverse effects of gentamicin in scarlet macaws and galahs. Flammer K, et al. **Am J Vet Res** 1990 Mar;51(3):404–7
Effect of brain–gut peptides upon neurons in centrally regulating sites for drinking. Yamashita H, et al. **Arch Histol Cytol** 1989;52 Suppl:121–7
Anticonflict effect of caffeine: investigation by punishment and hypertonic NaCl solution procedures in mice. Kuribara H, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Jun; 24(3):144–53
Atrial natriuretic peptide in the subfornical organ reduces drinking induced by angiotensin or in response to water deprivation. Ehrlich KJ, et al. **Behav Neurosci** 1990 Apr; 104(2):365–72
Angiotensin-converting enzyme in subfornical organ mediates captopril-induced drinking. Thunhorst RL, et al. **Behav Neurosci** 1989 Dec;103(6):1302–10
Effect of hypobaric hypoxia and almitrine on voluntary salt and water intake in carotid body denervated spontaneously hypertensive rats. Behm R, et al. **Biomed Biochim Acta** 1989;48(9):689–95
Gastrocarcinogen N-methyl-N'-nitro-N-nitrosoguanidine is an antiandrogen. Kodama M, et al. **Biomed Pharmacother** 1989;43(7):519–26
Polydipsia and hyponatremia induced by multiple neuroleptics but not molindone. Glusac E, et al. **Can J Psychiatry** 1990 Apr;35(3):268–9
Changes in saline and water intakes in bromocriptine-treated genetically hypertensive and normotensive rats. Tan BK, et al. **Clin Exp Pharmacol Physiol** 1990 Feb;17(2):129–33
Selective antagonists provide evidence that M1 muscarinic receptors may mediate carbachol-induced drinking in the rat. Polidori C, et al. **Eur J Pharmacol** 1990 Apr 10; 179(1–2):159–65
The role of dopamine in the effects of pentazocine and tripelennamine. Hudzik TJ, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):547–54
Sodium and water intake of sheep, rabbits and cattle during ICV infusion of eledoisin. Tarjan E, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):823–8
Behavioral and biochemical correlates of chronic administration of quipazine. Valencia-Flores M, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):299–304
Differential effects of central and peripheral cholinergic blockade on water consumption by rats. Alharbi MM, et al. **Pharmacol Res** 1990 Jan–Feb;22(1):71–4
Alterations of ventricular pH alter water intake and food consumption in rats. Badgaiyan RD, et al. **Physiol Behav** 1990 Mar;47(3):489–92
Effects of preferential delta and kappa opioid receptor agonists on the intake of hypotonic saline. Gosnell BA, et al. **Physiol Behav** 1990 Mar;47(3):601–3
Effects of histamine and alpha-fluoromethylhistidine injections on circadian phase of free-running rhythms. Itowi N, et al. **Physiol Behav** 1990 Mar;47(3):549–54
Histamine in brain may have no role for histaminergic control of food-related drinking in the rat. Kraly FS, et al. **Physiol Behav** 1990 Jan;47(1):5–9
Alcohol drinking, food and fluid intakes and body weight gain in rats. Larue-Achagiotis C, et al. **Physiol Behav** 1990 Mar;47(3):545–8
Effects of 5-hydroxytryptamine and d-fenfluramine on sham feeding and sham drinking in the gastric-fistulated rat. Neill JC, et al. **Physiol Behav** 1989 Dec;46(6):949–53
Central administration of corticotropin releasing factor in the pig: effects on operant feeding, drinking and plasma cortisol. Parrott RF. **Physiol Behav** 1990 Mar;47(3):519–24
Altered spontaneous and osmotically induced drinking for fowls with permanent access to dilute quinine. Yeomans MR, et al. **Physiol Behav** 1989 Dec;46(6):917–22
Repeated electroconvulsive shock (ECS) reduces the isoprenaline-induced drinking in rats. Przegaliński E, et al. **Pol J Pharmacol Pharm** 1989 Jan–Feb;41(1):41–4
Effects of a selective mu opioid receptor agonist and naloxone on the intake of sodium chloride solutions. Gosnell BA, et al. **Psychopharmacology (Berl)** 1990; 100(1):66–71
Free-choice responding for ethanol versus water in alcohol preferring (P) and unselected Wistar rats is differentially modified by naloxone, bromocriptine, and methysergide. Weiss F, et al. **Psychopharmacology (Berl)** 1990; 101(2):178–86
Chlordiazepoxide and the moderation of the initial response to reward reduction. Flaherty CF, et al. **Q J Exp Psychol [B]** 1990 Feb;42(1):87–105
Sensitivity of spontaneously hypertensive and of Wistar Kyoto rats to the antidipsogenic action of eledoisin. Pompei P, et al. **Regul Pept** 1990 Mar 27;28(1):119–29
[The subchronic toxicity of 5-vinyloxazolidine-2-thione in rats] Lewerenz HJ, et al. **Nahrung** 1989;33(10):965–73 (Eng. Abstr.) **(Ger)**
[Study on the water intake of rat during long-term inhalation of diesel exhaust] Maejima K, et al. **Jikken Dobutsu** 1990 Jan;39(1):81–8 (Eng. Abstr.) **(Jpn)**
[Intake of water and sodium chloride solution by the rats after central administration of litorin and immunization with litorin-bovine serum albumin conjugate] Ishanov PA, et al. **Biull Eksp Biol Med** 1989 Oct;108(10):389–91 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Biosynthetic response of mouse intermediate pituitary gland to induced drinking and dehydration. Leenders HJ, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):527–34
The role of basal forebrain norepinephrine and the control of extracellular depletion-induced drinking. Johnson AK, et al. **Acta Physiol Pol** 1989 May–Jun;40(3):282–92 (51 ref.)
Water intake and changes in plasma and CSF composition in response to acute administration of hypertonic NaCl and water deprivation in sheep. Rundgren M, et al. **Acta Physiol Scand** 1990 Jan;138(1):85–92
Water volume and consumption time: influence on the glycemic and insulinemic responses in non-insulin-dependent diabetic subjects. Gregersen S, et al. **Am J Clin Nutr** 1990 Sep;52(3):515–8
Spontaneous drinking: is it stimulated by hypertonicity or hypovolemia? Houpt TR, et al. **Am J Physiol** 1990 Jan; 258(1 Pt 2):R143–8
Angiotensin II mediates drinking elicited by eating in the rat. Kraly FS, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R436–42
Effects of baroreceptor denervation on endocrine and drinking responses to caval constriction in dogs. Quillen EW Jr, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R618–26
Effects of inhibitors of the renin-angiotensin system on water intake after insulin administration. Lopez-Sela P, et al. **Appetite** 1989 Oct;13(2):143–54
The effect of auditory stimulation on the consumption of soft drinks. McCarron A, et al. **Appetite** 1989 Oct; 13(2):155–9
Patterns of human drinking: effects of exercise, water temperature, and food consumption. Szlyk PC, et al. **Aviat Space Environ Med** 1990 Jan;61(1):43–8
Osteopenia, pathological fractures, and increased urinary calcium excretion in schizophrenic patients with polydipsia. Delva NJ, et al. **Biol Psychiatry** 1989 Dec;26(8):781–93
Reduced water and sodium intakes associated with high levels of natriuretic factor following common bile duct ligation in the rabbit. Oms L, et al. **Br J Surg** 1990 Jul; 77(7):752–5
Unrestricted oral fluid until three hours preoperatively: effect on gastric fluid volume and pH. Lewis P, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S132
Gastric emptying after clear fluids. Shevde K, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S134
Unlimited clear fluid ingestion by infants up to 2 hours before surgery is safe. Splinter WM, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S95
Volume and acidity of residual gastric fluid after oral fluid ingestion before elective ambulatory surgery. Scarr M, et al. **Can Med Assoc J** 1989 Dec 1;141(11):1151–4
Mechanisms involved in the control of punished responding in mother rats. Hansen S. **Horm Behav** 1990 Jun; 24(2):186–97
Gastric emptying with repeated drinking during running and bicycling. Rehrer NJ, et al. **Int J Sports Med** 1990 Jun; 11(3):238–43
Water: can the endurance athlete get too much of a good thing? Barr SI, et al. **J Am Diet Assoc** 1989 Nov; 89(11):1629–32, 1635 (22 ref.)
Effects of dehydration and rehydration on thermoregulatory sweating in goats. Baker MA. **J Physiol (Lond)** 1989 Oct; 417:421–35
Serial gastric emptying studies: effect of preceding drinks. Foster C, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):484–7
Neurokinin A is a specific and precocious inhibitor of water intake in neonatal rats. Perfumi M, et al. **Peptides** 1990 Mar–Apr;11(2):339–44
Comparison of the dipsogenic responsiveness of Long-Evans and Sprague-Dawley rats. Fregly MJ, et al. **Physiol Behav** 1990 Jun;47(6):1187–92
Polydipsia in rhesus monkeys deficient in omega-3 fatty acids. Reisbick S, et al. **Physiol Behav** 1990 Feb; 47(2):315–23
Sham drinking in rats: osmotic and volumetric manipulations. Salisbury JJ, et al. **Physiol Behav** 1990 Apr;47(4):625–30
Responsivity to water regulatory challenges in rats adapted to fluids adulterated with quinine or citric acid. Watson PJ, et al. **Physiol Behav** 1990 Apr;47(4):789–93
Water intake at post-exercise comparing between head-up and -down tilting in woman. Yokozawa K, et al. **Physiologist** 1990 Feb;33(1 Suppl):S82–3
Water deprivation in weaned pigs. Marks SL, et al. **Vet Rec** 1989 Oct 28;125(18):460

DRINKING, ALCOHOL see **ALCOHOL DRINKING**

DRINKING BEHAVIOR

Ingestion rate as an independent variable in the behavioral analysis of satiation. Kaplan JM, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):R662–71
Caffeine-containing beverages, total fluid consumption, and premenstrual syndrome. Rossignol AM, et al. **Am J Public Health** 1990 Sep;80(9):1106–10
How to give up smoking by drinking coffee [letter] Lima DR, et al. **Chest** 1990 Jan;97(1):254
Drinking reasons, drinking locations, and automobile accident involvement among collegians. Pang MG, et al. **Int J Addict** 1989 Mar;24(3):215–27
Failure of a 2-hour motivational intervention to alter recurrent drinking behavior in alcoholics with gastrointestinal disease. Kuchipudi V, et al. **J Stud Alcohol** 1990 Jul;51(4):356–60
Efficiency and persistence of licking in rats. Buxton A, et al. **Physiol Behav** 1990 Feb;47(2):239–47
Lick sensors as tools in behavioral and neuroscience research. Weijnen JA. **Physiol Behav** 1989 Dec;46(6):923–8

[Biochemical and functional changes during immunization of rats with angiotensin II] Komissarova EV, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):181-5 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Effects of levamisole in three behavioural animal tests. Sulcová A, et al. **Act Nerv Super (Praha)** 1989 Jun; 31(2):109-11

Effect of intracerebroventricular deuterium oxide on water intake and AVP release induced by intravenous infusion of angiotensin II in sheep. Hjelmqvist H, et al. **Acta Physiol Scand** 1990 Feb;138(2):155-60

Effects of atropine injection on food-associated drinking in rats with superior salivatory nucleus lesions. Ramos JM, et al. **Behav Neural Biol** 1989 Nov;52(3):422-9

Tolerance to morphine "anorexia" is not contingent on experience with food while in the drugged state. Wolgin DL, et al. **Behav Neurosci** 1990 Jun;104(3):441-8

Glucocorticoids potentiate the dipsogenic action of angiotensin II. Ganesan R, et al. **Brain Res** 1989 Oct 9; 499(1):121-30

Amastatin potentiation of drinking induced by blood-borne angiotensin: evidence for mediation by endogenous brain angiotensin. Sullivan MJ, et al. **Brain Res** 1990 Mar 5; 510(2):237-41

Test of a criterion for selecting intracranial doses of angiotensin receptor blockers. Evered MD, et al. **Brain Res Bull** 1989 Oct-Nov;23(4-5):289-92

Behavioral and metabolic aspects of cimetidine-ethanol interaction. Messiha FS. **Brain Res Bull** 1989 Oct-Nov; 23(4-5):273-6

Fluoxetine differentially alters alcohol intake and other consummatory behaviors in problem drinkers. Naranjo CA, et al. **Clin Pharmacol Ther** 1990 Apr;47(4):490-8

The reduction of water intake in rats caused by a low dose of apomorphine is unaltered by alpha-methyl-p-tyrosine: are autoreceptors not involved? Ljungberg T, et al. **J Neural Transm Gen Sect** 1989;78(3):265-9

Effects of the kappa opioid receptor antagonist MR-2266-BS on the acquisition of ethanol preference. Sandi C, et al. **Life Sci** 1990;46(16):1119-29

The anteroventral third ventricle (AV3V) region is essential for pressor, dipsogenic and natriuretic responses to central carbachol. Menani JV, et al. **Neurosci Lett** 1990 Jun 8; 113(3):339-44

The effects of cadmium on the self-administration of ethanol and an isocaloric/isohedonic equivalent. Nation JR, et al. **Neurotoxicol Teratol** 1989 Sep-Oct;11(5):509-14

Centrally administered opioid antagonists, nor-binaltorphimine, 16-methyl cyprenorphine and MR2266, suppress intake of a sweet solution. Calcagnetti DJ, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):69-73

Schedule-induced cocaine drinking: choice between cocaine and vehicle. Falk JL, et al. **Pharmacol Biochem Behav** 1990 Jan;35(1):187-93

Effect of chronic dietary treatment with l-tryptophan on spontaneous salt appetite of rats. Fregly MJ, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):401-6

Opposite effects of SK&F 38393, a dopamine D-1 agonist, and SCH 23390, a dopamine D-1 antagonist, in tests of salt preference/aversion in the rehydrating rat. Gilbert DB, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):945-8

Effects of the dopamine D-1 antagonist SCH 23390 on water intake, water-rewarded operant responding and apomorphine-induced decrease of water intake in rats. Ljungberg T. **Pharmacol Biochem Behav** 1989 Jul; 33(3):709-12

Differential attenuation of water intake and water-rewarded operant responding by repeated administration of haloperidol and SCH 23390 in the rat. Ljungberg T. **Pharmacol Biochem Behav** 1990 Jan;35(1):111-5

Chlordiazepoxide and valproate enhancement of saline drinking by nondeprived rats: effects of bicuculline, picrotoxin and Ro15-1788. Shephard RA, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):285-90

Time-response effects of pimozide on operant behavior and schedule-induced polydipsia. Snodgrass SH, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):949-55

Voluntary ethanol intake of individually- or pair-housed rats: effect of ACTH or dexamethasone treatment. Weisinger RS, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):335-41

Endotoxin inhibition of drinking behaviour in the rat. Calapai G, et al. **Pharmacol Res** 1990 Mar-Apr;22(2):161-70

Effects of dietary protein on food and water intake in spontaneously hypertensive rats. Johnson DA, et al. **Physiol Behav** 1989 Jun;45(6):1267-70

Selective reduction by serotonergic agents of hypertonic saline consumption in rats: evidence for possible 5-HT1C receptor mediation. Neill JC, et al. **Psychopharmacology (Berlin)** 1989;99(2):196-201

[Morphological and histochemical analysis of central effects of angiotensin-II after experience of emotional stress] Ishchenko AG. **Biull Eksp Biol Med** 1990 May;109(5):494-7 (Eng. Abstr.) **(Rus)**

[Changes in the activity of the taste receptor apparatus and the preference for a sodium chloride solution in newborn rats receiving capsaicin] Serova ON. **Biull Eksp Biol Med** 1990 Mar;109(3):215-7 (Eng. Abstr.) **(Rus)**

[Characteristics of the lapping of water and a solution of table salt by rats when administered litorin into the lateral cerebral ventricles] Esakova AI, et al. **Zh Vyssh Nerv Deiat** 1989 May-Jun;39(3):561-3 **(Rus)**

PHYSIOLOGY

Does coffee consumption protect against thyroid disease? Linos A, et al. **Acta Chir Scand** 1989 Jun-Jul; 155(6-7):317-20

Renin in the control of drinking behaviour in the earliest stages of renal hypertension in the rat. Fitzsimons JT, et al. **Acta Physiol Pol** 1989 May-Jun;40(3):324-8

Bengt Andersson's pioneering demonstration of the hypothalamic "drinking area" and the subsequent osmoreceptor/sodium receptor controversy. Fitzsimons JT. **Acta Physiol Scand Suppl** 1989;583:15-25 (40 ref.)

Psychogenic adipsia in a patient with psychotic depression. Phillips MG, et al. **Am J Kidney Dis** 1990 Jun;15(6):592-4

Circulating angiotensin II and drinking behavior in rats. Pawloski CM, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R531-8

Fetal swallowing: correlation of electromyography and esophageal fluid flow. Sherman DJ, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1386-94

Voluntary consumption of cyclophosphamide by Mrl mice. Grota LJ, et al. **Brain Behav Immun** 1989 Sep;3(3):263-73

Effects of drinking and central angiotensin II stimulation on organ blood flow in conscious rats. Rettig R, et al. **Brain Res** 1989 Dec 29;505(2):251-6

Interhemispheric asymmetry of positive emotional reactions in rats. Bianki VL, et al. **Int J Neurosci** 1989 Aug; 47(3-4):193-201

Hypotonic diuresis following oropharyngeal stimulation with water in humans. Akaishi T, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):70-4

Saline preference of cross-suckled spontaneously hypertensive and normotensive rats. Di Nicolantonio R. **Physiol Behav** 1989 Sep;46(3):461-5

Learning and meal-associated drinking: meal-related deficits produce adjustments in postprandial drinking. Lucas GA, et al. **Physiol Behav** 1989 Sep;46(3):361-7

Behavior and body weight changes under intermittent exposure to cold in C57BL/6J mice. Omata K. **Physiol Behav** 1990 Apr;47(4):743-8

Ambulatory activity in streptozotocin-induced diabetic rats. Shimomura Y, et al. **Physiol Behav** 1990 Jun;47(6):1153-5

Circadian behavioral rhythms during various light-intensity cycles in rats. Usui S, et al. **Physiol Behav** 1989 Sep; 46(3):521-8

[The effect of transection of the taste and tactile nerves of the tongue on the central pacemaker of licking in rats] Mamedov ZG, et al. **Fiziol Zh SSSR** 1989 Jul;75(7):1012-6 **(Rus)**

[The modification of the licking pattern under classical conditioning conditions] Mamedov ZG, et al. **Fiziol Zh SSSR** 1990 Jan;76(1):121-4 **(Rus)**

DRIP INFUSIONS see **INFUSIONS, INTRAVENOUS**

DRIVE

see related
SEX

The 'point of no return' as a target of experimental research on drug dependence. Coper H, et al. **Drug Alcohol Depend** 1990 Apr;25(2):129-34 (54 ref.)

Drive theory and the metapsychology of experience. Opatow B. **Int J Psychoanal** 1989;70 (Pt 4):645-60

The drive for power and conceptual inertia. Frank JD. **J Am Acad Psychoanal** 1989 Fall;17(3):347-57

Neuropsychological analysis of some dynamic aspects of the sexual drive in men and women. Zaimov K. **Pavlov J Biol Sci** 1990 Jan-Mar;25(1):14-9

DROMEDARY see **CAMELS**

L-DROMORAN see **LEVORPHANOL**

DROOLING see **SIALORRHEA**

DROPERIDOL

Structure of droperidol-ethanol (1/1). Klein CL, et al. **Acta Crystallogr C** 1989 Apr 15;45 (Pt 4):650-3

Skills related to driving after intravenous diazepam, flunitrazepam or droperidol. Korttila K, et al. **Br J Anaesth** 1974 Dec;46(12):961-9

ADMINISTRATION & DOSAGE

Epidural droperidol and morphine for postoperative pain. Naji P, et al. **Anesth Analg** 1990 Jun;70(6):583-8

Loss of the antiemetic effect of droperidol in menstruating women. Lindblad T, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S139

ADVERSE EFFECTS

Side effects after droperidol [letter; comment] Lichtor JL. **Anesth Analg** 1990 Jul;71(1):106 Comment on: Anesth Analg 1989 Dec;69(6):748-51.

Delayed side effects of droperidol after ambulatory general anesthesia [see comments] Melnick B, et al. **Anesth Analg** 1989 Dec;69(6):748-51 Comment in: Anesth Analg 1990 Jul;71(1):105. Comment in: Anesth Analg 1990 Jul;71(1):106.

Treatment of a delayed reaction to droperidol with diphenhydramine [letter; comment] Schreibman DL. **Anesth Analg** 1990 Jul;71(1):105 Comment on: Anesth Analg 1989 Dec;69(6):748-51.

Akathisia associated with droperidol during epidural anesthesia. Ward NG. **Anesthesiology** 1989 Nov;71(5):786-7

[2 cases of brief asystole following premedication—a possible connection with Thalamonal?] Hochwarter J, et al. **Anaesthesist** 1989 Nov;38(11):629-30 (Eng. Abstr.) **(Ger)**

[Treatment using physostigmine of disorientation and agitation caused by dehydrobenzperidol (letter)] Pablo R, et al. **Rev Esp Anestesiol Reanim** 1989 Sep-Oct;36(5):297 **(Spa)**

BLOOD

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma. Wilhelm D, et al. **J Chromatogr** 1990 Jan 26;525(1):218-24

DIAGNOSTIC USE

[Effect of dehydrobenzperidol (DHB) on cortical and thalamic somatosensory evoked potentials in patients with muscle dystonia] Mempel E, et al. **Neurol Neurochir Pol** 1988 Nov-Dec;22(6):531-6 (Eng. Abstr.) **(Pol)**

PHARMACOLOGY

The cerebral arterio-venous oxygen content differences (AVDO2) during halothane and neurolept anaesthesia in patients subjected to craniotomy. Engberg M, et al. **Acta Anaesthesiol Scand** 1989 Nov;33(8):642-6

A comparison of the effects of alfentanil/droperidol or fentanyl/droperidol on intra-ocular pressure. Coley S, et al. **Anaesthesia** 1990 Jun;45(6):477-80

Droperidol-fentanyl inhibits mast cell histamine release in rat synovium, but not skin, after immunologic activation: evidence for mast cell heterogeneity. Malone DG, et al. **J Allergy Clin Immunol** 1990 May;85(5):821-7

[Droperidol, seduxen, fentanyl: a study of immune reactions in vitro] Gadalov VP, et al. **Anesteziol Reanimatol** 1989 Jul-Aug;(4):18-21 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

The antiemetic effect of droperidol: is it dose dependent? Fassoulaki A, et al. **Acta Anaesthesiol Belg** 1989; 40(3):179-82

Postoperative emesis after pediatric strabismus surgery: the effect of dixyrazine compared to droperidol. Larsson S, et al. **Acta Anaesthesiol Scand** 1990 Apr;34(3):227-30

Utility of droperidol for conscious sedation in gastrointestinal endoscopic procedures. Wilcox CM, et al. **Gastrointest Endosc** 1990 Mar-Apr;36(2):112-5

Metoclopramide versus droperidol for prevention of nausea and vomiting during epidural anesthesia for cesarean section. Chestnut DH, et al. **South Med J** 1989 Oct; 82(10):1224-7

[Antiemetic effect of the levo isomer of sulpiride (L-sulpiride) in humans] Schettini G, et al. **Minerva Anestesiol** 1989 May;55(5):239-43 (Eng. Abstr.) **(Ita)**

[Effects of hyperbaric oxygenation, thalamonal and their combination on pulmonary edema in experimental embolism of blood vessels of the lesser circulation] Kurygin GV, et al. **Grudn Khir** 1989 Jul-Aug;(4):36-9 (Eng. Abstr.) **(Rus)**

[Sedation in pediatrics using scopolamine and Thalamonal to perform a CAT scan (letter)] Casagran Saballs B, et al. **Rev Esp Anestesiol Reanim** 1989 Nov-Dec;36(6):362 **(Spa)**

DROPSY see **EDEMA**

DROSOPHILA

ANALYSIS

Purification of Drosophila hsp 83 and immunoelectron microscopic localization. Carbajal ME, et al. **Eur J Cell Biol** 1990 Jun;52(1):147-56

An antibody to the Drosophila period protein recognizes circadian pacemaker neurons in Aplysia and Bulla. Siwicki KK, et al. **Neuron** 1989 Jul;3(1):51-8

Drosophila G proteins. Hurley JB, et al. **Soc Gen Physiol Ser** 1990;45:157-67

CYTOLOGY

Abbreviated and regulated cell cycles in Drosophila. Glover DM. **Curr Opin Cell Biol** 1990 Apr;2(2):258-61 (15 ref.)

Microtubule inhibitors block the morphological changes induced in Drosophila blood cells by a parasitoid wasp factor. Rizki RM, et al. **Experientia** 1990 Mar 15; 46(3):311-5

Membrane pinch-off and reinsertion observed in living cells of Drosophila. Narita K, et al. **J Cell Physiol** 1989 Nov; 141(2):383-91

DRUG EFFECTS

The use of Drosophila as an in vivo system to study modifiers

of chemical mutagenesis. Ramel C, et al. **Basic Life Sci** 1990;52:373–7

Chemical mutagenesis testing in Drosophila. VI. Interlaboratory comparison of mutagenicity tests after treatment of larvae. Valencia R, et al. **Environ Mol Mutagen** 1989;14(4):238–44

Chemical mutagenesis testing in Drosophila. VII. Results of 22 coded compounds tested in larval feeding experiments. Zimmering S, et al. **Environ Mol Mutagen** 1989; 14(4):245–51

The effects of a range of anti-cancer drugs in the white-ivory somatic mutation test in Drosophila. Clements J, et al. **Mutat Res** 1990 Feb;228(2):171–6

The white-ivory somatic mutation test in Drosophila. The effects of larval age, increasing the number of copies of wi and the response to some reference mutagens. Howe D, et al. **Mutat Res** 1990 Feb;228(2):193–202

EMBRYOLOGY

Contractile proteins in Drosophila development. Kiehart DP, et al. **Ann N Y Acad Sci** 1990;582:233–51 (62 ref.)

Cytokinesis in the early Drosophila embryo. Warn RM, et al. **Ann N Y Acad Sci** 1990;582:222–32 (32 ref.)

Cell division phenotype and commitment: the evidence from Drosophila. Wilkins AS. **Bioessays** 1990 Jan;12(1):34–6 (9 ref.)

The three postblastoderm cell cycles of Drosophila embryogenesis are regulated in G2 by string. Edgar BA, et al. **Cell** 1990 Aug 10;62(3):469–80

A gradient of nuclear localization of the dorsal protein determines dorsoventral pattern in the Drosophila embryo. Roth S, et al. **Cell** 1989 Dec 22;59(6):1189–202

The graded distribution of the dorsal morphogen is initiated by selective nuclear transport in Drosophila. Rushlow CA, et al. **Cell** 1989 Dec 22;59(6):1165–77

Functional implications of the unusual spatial distribution of a minor alpha-tubulin isotype in Drosophila: a common thread among chordotonal ligaments, developing muscle, and testis cyst cells. Matthews KA, et al. **Dev Biol** 1990 Jan;137(1):171–83

Dorsal expression of the Drosophila z600 gene during early embryogenesis. Schulz RA, et al. **Dev Biol** 1989 Nov; 136(1):211–21

The molecular biology of pattern formation in the early embryonic development of Drosophila. Scott MP. **Dev Biol (N Y 1985)** 1988;5:151–85 (129 ref.)

Dynamics of Drosophila eye development and temporal requirements of sevenless expression. Basler K, et al. **Development** 1989 Dec;107(4):723–31

Lateral inhibition and cell fate during neurogenesis in Drosophila: the interactions between scute, notch and delta. Cabrera CV. **Development** 1990 Jul;109(3):733–42

The zygotic control of Drosophila pair-rule gene expression. II. Spatial repression by gap and pair-rule gene products. Carroll SB, et al. **Development** 1989 Nov;107(3):673–83

Analysis of maternal effect mutant combinations elucidates regulation and function of the overlap of hunchback and Krüppel gene expression in the Drosophila blastoderm embryo. Gaul U, et al. **Development** 1989 Nov; 107(3):651–62

The decapentaplegic gene: a TGF-beta homologue controlling pattern formation in Drosophila. Gelbart WM. **Development** 1989;107 Suppl:65–74 (54 ref.)

Spatial control of hairy protein expression during embryogenesis. Hooper KL, et al. **Development** 1989 Nov; 107(3):489–504

fushi tarazu protein expression in the cellular blastoderm of Drosophila detected using a novel imaging technique. Karr TL, et al. **Development** 1989 May;106(1):95–103

Complex spatio-temporal accumulation of alternative transcripts from the neurogenic gene Delta during Drosophila embryogenesis. Kopczynski CC, et al. **Development** 1989 Nov;107(3):623–36

Pattern formation in the Drosophila embryo: allocation of cells to parasegments by even-skipped and fushi tarazu. Lawrence PA, et al. **Development** 1989 Apr;105(4):761–7

Analysis of function of the pair-rule genes hairy, even-skipped and fushi tarazu in mosaic Drosophila embryos. Lawrence PA, et al. **Development** 1989 Dec; 107(4):847–53

Segmental polarity and identity in the abdomen of Drosophila is controlled by the relative position of gap gene expression. Lehmann R, et al. **Development** 1989;107 Suppl:21–9

Multiple steps in the localization of bicoid RNA to the anterior pole of the Drosophila oocyte. St. Johnston D, et al. **Development** 1989;107 Suppl:13–9

Spatially ordered transcription of regulatory DNA in the bithorax complex of Drosophila. Sánchez-Herrero E, et al. **Development** 1989 Oct;107(2):321–9

Lateral inhibition and the development of the sensory bristles of the adult peripheral nervous system of Drosophila. Simpson P. **Development** 1990 Jul;109(3):509–19 (84 ref.)

Short-range positional signals in the developing Drosophila eye. Tomlinson A. **Development** 1989;107 Suppl:59–63 (15 ref.)

The zygotic control of Drosophila pair-rule gene expression. I. A search for new pair-rule regulatory loci. Vavra SH, et al. **Development** 1989 Nov;107(3):663–72

Abnormal centrosomes in cold-treated Drosophila embryos. Callaini G, et al. **Exp Cell Res** 1989 Oct;184(2):367–74

Molecular genetics of neuronal development in the Drosophila embryo. Thomas JB, et al. **FASEB J** 1990 May; 4(8):2476–82 (41 ref.)

Spatial regulation of zerknüllt: a dorsal-ventral patterning gene in Drosophila. Doyle HJ, et al. **Genes Dev** 1989 Oct; 3(10):1518–33

The use of maternally coded gene products in Drosophila. Robbins LG. **Genet Res** 1990 Apr;55(2):87–96

Drosophila fasciclin I, a neural cell adhesion molecule, has a phosphatidylinositol lipid membrane anchor that is developmentally regulated. Hortsch M, et al. **J Biol Chem** 1990 Sep 5;265(25):15104–9

Identification of microtubule-associated proteins in the centrosome, spindle, and kinetochore of the early Drosophila embryo. Kellogg DR, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2977–91

F-actin organization during the cellularization of the Drosophila embryo as revealed with a confocal laser scanning microscope. Warn RM, et al. **J Cell Sci** 1990 May; 96 (Pt 1):35–42

Specification of limb development in the Drosophila embryo by positional cues from segmentation genes. Cohen SM. **Nature** 1990 Jan 11;343(6254):173–7

Mediation of Drosophila head development by gap-like segmentation genes [see comments] Cohen SM, et al. **Nature** 1990 Aug 2;346(6283):482–5 Comment in: Nature 1990 Aug 2;346(6283):412–3.

The orthodenticle gene is regulated by bicoid and torso and specifies Drosophila head development [see comments] Finkelstein R, et al. **Nature** 1990 Aug 2;346(6283):485–8 Comment in: Nature 1990 Aug 2;346(6283):412–3.

The X, Y, Z of head development [news; comment] Ingham PW. **Nature** 1990 Aug 2;346(6283):412–3 Comment on: Nature 1990 Aug 2;346(6283):482–5. Comment on: Nature 1990 Aug 2;346(6283):485–8.

Localized requirement for torso-like expression in follicle cells for development of terminal anlagen of the Drosophila embryo. Stevens LM, et al. **Nature** 1990 Aug 16; 346(6285):660–3

[Pattern formation in Drosophila] Jckle H, et al. **Naturwissenschaften** 1989 Nov;76(11):512–7 (17 ref.) (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Rapid enzyme kinetic assays of individual Drosophila and comparisons of field-caught D. melanogaster and D. simulans. Clark AG, et al. **Biochem Genet** 1989 Jun; 27(5–6):263–77

Kinetic and inactivation studies of recombinant Drosophila choline acetyltransferase. Carbini L, et al. **Brain Res Bull** 1990 Jan;24(1):119–24

Assembly and disassembly of the Drosophila RNA polymerase II complex during transcription. Kadonaga JT. **J Biol Chem** 1990 Feb 15;265(5):2624–31

Nuclease protection by Drosophila DNA topoisomerase II. Enzyme/DNA contacts at the strong topoisomerase II cleavage sites. Lee MP, et al. **J Biol Chem** 1989 Dec 25; 264(36):21779–87

Biosynthesis of xanthurenic acid 8-O-beta-D-glucoside in Drosophila. Characterization of the xanthurenic acid:UDP-glucosyltransferase activity. Real MD, et al. **J Biol Chem** 1990 May 5;265(13):7407–12

[The absence of DNA methylase activity in Drosophila cells] Mazin AL, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov-Dec;(6):922–5 (Eng. Abstr.) **(Rus)**

GENETICS

The population genetics of Drosophila transposable elements. Charlesworth B, et al. **Annu Rev Genet** 1989;23:251–87 (150 ref.)

Recombinational controls of rDNA redundancy in Drosophila. Hawley RS, et al. **Annu Rev Genet** 1989; 23:87–120 (131 ref.)

Polymorphic inversion and esterase loci complex on chromosome 2 of Drosophila buzzatii. II. Spatial variation. Knibb WR, et al. **Aust J Biol Sci** 1988;41(2):239–46

J. Grossfield's unpublished work with the light-dependent auraria complex of Drosophila [letter] Ehrman L. **Behav Genet** 1989 Sep;19(5):735–6

Inheritance of male courtship sound characteristics in Drosophila littoralis. Hoikkala A, et al. **Behav Genet** 1990 May;20(3):423–35

Mutations affecting phenol oxidase activity in Drosophila: quicksilver and tyrosinase-1. Pentz ES, et al. **Biochem Genet** 1990 Apr;28(3–4):151–71

Comparative analysis of glue proteins in the Drosophila nasuta subgroup. Ramesh SR, et al. **Biochem Genet** 1989 Oct;27(9–10):507–20

Formation of a gradient of the Drosophila dorsal morphogen by differential nuclear localisation. Gay NJ, et al. **Bioessays** 1990 Apr;12(4):181–2 (11 ref.)

From gene to phenotype in Drosophila and other organisms. Kaiser K. **Bioessays** 1990 Jun;12(6):297–301 (21 ref.)

Chromosome structure at interfaces between major chromatin types: alpha- and beta-heterochromatin. Miklos GL, et al. **Bioessays** 1990 Jan;12(1):1–6 (30 ref.)

Drosophila at Marseille: the 11th European Drosophila Research Conference. Wilkins AS. **Bioessays** 1989 Dec; 11(6):190–1 (0 ref.)

Developmental expression pattern of a 800 kb DNA continuum cloned from the Drosophila X chromosome 14B–15B region. Surdej P, et al. **Biol Cell** 1990;68(2):105–18

Mitochondrial development during Drosophila oogenesis: distribution, density and in situ RNA hybridizations. Tourmente S, et al. **Biol Cell** 1990;68(2):119–27

Drosophila neuroglian: a member of the immunoglobulin superfamily with extensive homology to the vertebrate neural adhesion molecule L1. Bieber AJ, et al. **Cell** 1989 Nov 3;59(3):447–60

Zebra patterns in fly embryos: activation of stripes or repression of interstripes? Carroll SB. **Cell** 1990 Jan 12; 60(1):9–16 (35 ref.)

The affairs of daughterless and the promiscuity of developmental regulators. Cline TW. **Cell** 1989 Oct 20; 59(2):231–4 (16 ref.)

Genetic analysis of a Drosophila neural cell adhesion molecule: interaction of fasciclin I and Abelson tyrosine kinase mutations. Elkins T, et al. **Cell** 1990 Feb 23; 60(4):565–75

extramacrochaetae, a negative regulator of sensory organ development in Drosophila, defines a new class of helix-loop-helix proteins. Ellis HM, et al. **Cell** 1990 Apr 6;61(1):27–38

Molecular interactions between the protein products of the neurogenic loci Notch and Delta, two EGF-homologous genes in Drosophila. Fehon RG, et al. **Cell** 1990 May 4; 61(3):523–34

The Drosophila extramacrochaetae locus, an antagonist of proneural genes that, like these genes, encodes a helix-loop-helix protein. Garrell J, et al. **Cell** 1990 Apr 6;61(1):39–48

Cloning of the p50 DNA binding subunit of NF-kappa B: homology to rel and dorsal. Ghosh S, et al. **Cell** 1990 Sep 7;62(5):1019–29

The specificities of Sex combs reduced and Antennapedia are defined by a distinct portion of each protein that includes the homeodomain. Gibson G, et al. **Cell** 1990 Sep 21;62(6):1087–103

The developmental effect of overexpressing a Ubx product in Drosophila embryos is dependent on its interactions with other homeotic products. González-Reyes A, et al. **Cell** 1990 May 4;61(3):515–22

Isolation and characterization of the Drosophila gene encoding the TATA box binding protein, TFIID. Hoey T, et al. **Cell** 1990 Jun 29;61(7):1179–86

The Drosophila patched gene encodes a putative membrane protein required for segmental patterning. Hooper JE, et al. **Cell** 1989 Nov 17;59(4):751–65

A Xenopus mRNA related to Drosophila twist is expressed in response to induction in the mesoderm and the neural crest. Hopwood ND, et al. **Cell** 1989 Dec 1;59(5):893–903

The roles of Drosophila cyclins A and B in mitotic control. Lehner CF, et al. **Cell** 1990 May 4;61(3):535–47

Identification and characterization of a gene encoding a kinesin-like protein in Drosophila. McDonald HB, et al. **Cell** 1990 Jun 15;61(6):991–1000

The Drosophila seven-up gene, a member of the steroid receptor gene superfamily, controls photoreceptor cell fates. Mlodzik M, et al. **Cell** 1990 Jan 26;60(2):211–24

sevenless: Seven found? [letter] Norton PA, et al. **Cell** 1990 Apr 6;61(1):15–6

Binding site-dependent direct activation and repression of in vitro transcription by Drosophila homeodomain proteins. Ohkuma Y, et al. **Cell** 1990 May 4;61(3):475–84

Gradients of Krüppel and knirps gene products direct pair-rule gene stripe patterning in the posterior region of the Drosophila embryo. Pankratz MJ, et al. **Cell** 1990 Apr 20;61(2):309–17

Stable binding of Drosophila heat shock factor to head-to-head and tail-to-tail repeats of a conserved 5 bp recognition unit. Perisic O, et al. **Cell** 1989 Dec 1; 59(5):797–806

The Drosophila gene tailless is expressed at the embryonic termini and is a member of the steroid receptor superfamily. Pignoni F, et al. **Cell** 1990 Jul 13;62(1):151–63

Relocalization of the dorsal protein from the cytoplasm to the nucleus correlates with its function. Steward R. **Cell** 1989 Dec 22;59(6):1179–88

crumbs encodes an EGF-like protein expressed on apical membranes of Drosophila epithelial cells and required for organization of epithelia. Tepass U, et al. **Cell** 1990 Jun 1;61(5):787–99

A single amino acid can determine the DNA binding specificity of homeodomain proteins. Treisman J, et al. **Cell** 1989 Nov 3;59(3):553–62

Distribution of the wingless gene product in Drosophila embryos: a protein involved in cell-cell communication. van den Heuvel M, et al. **Cell** 1989 Nov 17;59(4):739–49

Structure of the Drosophila BicaudalD protein and its role in localizing the the posterior determinant nanos. Wharton RP, et al. **Cell** 1989 Dec 1;59(5):881–92

A kinesin-like protein required for distributive chromosome segregation in Drosophila. Zhang P, et al. **Cell** 1990 Sep 21;62(6):1053–62

Interacting genes identify interacting proteins involved in microtubule function in Drosophila. Fuller MT, et al. **Cell Motil Cytoskeleton** 1989;14(1):128–35 (33 ref.)

Cytological localization and organization of dispersed middle repetitive DNA sequences of Drosophila subobscura. Felger I, et al. **Chromosoma** 1989 Nov;98(5):342–50

On the origins of tandemly repeated genes: does histone gene copy number in Drosophila reflect chromosomal location? Fitch DH, et al. **Chromosoma** 1990 Apr;99(2):118–24

DNA sequence comparison of micropia transposable elements from Drosophila hydei and Drosophila

melanogaster. Lankenau DH, et al. **Chromosoma** 1990 Apr; 99(2):111–7

The beta heterochromatic sequences flanking the I elements are themselves defective transposable elements. Vaury C, et al. **Chromosoma** 1989 Sep;98(3):215–24

Heteropycnosis of an underreplicating chromosome. Zacharias H. **Chromosoma** 1990 Apr;99(1):24–35

Ectopic expression from the Deformed gene triggers a dominant defect in Drosophila adult head development. Chadwick R, et al. **Dev Biol** 1990 Sep;141(1):130–40

Defective gap-junctional communication associated with imaginal disc overgrowth and degeneration caused by mutations of the dco gene in Drosophila. Jursnich VA, et al. **Dev Biol** 1990 Aug;140(2):413–29

Control of the initiation of homeotic gene expression by the gap genes giant and tailless in Drosophila. Reinitz J, et al. **Dev Biol** 1990 Jul;140(1):57–72

cis-acting sequences required for the germ line expression of the Drosophila gonadal gene. Schulz RA, et al. **Dev Biol** 1990 Aug;140(2):455–8

Genetic dissection of a complex neurological mutant, polyhomeotic, in Drosophila. Smouse D, et al. **Dev Biol** 1990 May;139(1):169–85

The chorion genes of the medfly, Ceratitis capitata. II. Characterization of three novel cDNA clones obtained by differential screening of an ovarian library. Tolias PP, et al. **Dev Biol** 1990 Jul;140(1):105–12

Transcripts of individual Drosophila actin genes are differentially distributed during embryogenesis. Tobin SL, et al. **Dev Genet** 1990;11(1):15–26

Quartet: a Drosophila developmental mutation affecting chromosome separation in mitosis. Zahner JE, et al. **Dev Genet** 1990;11(1):27–40

Different patterns of transcription from the two Antennapedia promoters during Drosophila embryogenesis. Bermingham JR Jr, et al. **Development** 1990 Jul;109(3):553–66

Ectopic expression of homeotic genes caused by the elimination of the Polycomb gene in Drosophila imaginal epidermis. Busturia A, et al. **Development** 1988 Dec; 104(4):713–20

Genetic structure of the abd-A gene of Drosophila. Busturia A, et al. **Development** 1989 Nov;107(3):575–83

Expression of Abdominal-B homeoproteins in Drosophila embryos. Delorenzi M, et al. **Development** 1990 Feb; 108(2):323–9

Genes from two intermoult puffs in Drosophila virilis polytene chromosomes are differentially transcribed during larval development. Kress H P, et al. **Development** 1990 Feb;108(2):261–7

Effects of ectopic expression of caudal during Drosophila development. Mlodzik M, et al. **Development** 1990 Jun; 109(2):271–7

Sex determination in the germ line of Drosophila depends on genetic signals and inductive somatic factors. Nöthiger R, et al. **Development** 1989 Nov;107(3):505–18

Expression and function of the homoeotic genes Antennapedia and Sex combs reduced in the embryonic midgut of Drosophila. Reuter R, et al. **Development** 1990 Jun;109(2):289–303

Expression of the Drosophila gonadal gene: alternative promoters control the germ-line expression of monocistronic and bicistronic gene transcripts. Schulz RA, et al. **Development** 1990 Apr;108(4):613–22

Region-specific expression in early chick and mouse embryos of Ghox-lab and Hox 1.6, vertebrate homeobox-containing genes related to Drosophila labial. Sundin OH, et al. **Development** 1990 Jan;108(1):47–58

Glue protein genes in Drosophila virilis: their organization, developmental control of transcription and specific mRNA degradation. Swida U, et al. **Development** 1990 Feb; 108(2):269–80

Requirements for integrins during Drosophila development. Zusman S, et al. **Development** 1990 Mar;108(3):391–402

Organization and expression of the Drosophila FMRFamide-related prohormone gene. Chin AC, et al. **DNA Cell Biol** 1990 May;9(4):263–71

The spatial and temporal expression pattern of sevenless is exclusively controlled by gene-internal elements. Basler K, et al. **EMBO J** 1989 Aug;8(8):2381–6

Drosophila Sgs3 TATA: effects of point mutations on expression in vivo and protein binding in vitro with staged nuclear extracts. Giangrande A, et al. **EMBO J** 1989 Nov; 8(11):3459–66

A new homeotic mutation in the Drosophila bithorax complex removes a boundary separating two domains of regulation. Gyurkovics H, et al. **EMBO J** 1990 Aug; 9(8):2579–85

cis-acting control elements for Krüppel expression in the Drosophila embryo. Hoch M, et al. **EMBO J** 1990 Aug; 9(8):2587–95

Restriction enzymes have limited access to DNA sequences in Drosophila chromosomes. Jack RS, et al. **EMBO J** 1990 Aug;9(8):2603–9

Establishment of the Deformed expression stripe requires the combinatorial action of coordinate, gap and pair-rule proteins. Jack T, et al. **EMBO J** 1990 Apr;9(4):1187–98

Drosophila chaoptin, a member of the leucine-rich repeat family, is a photoreceptor cell-specific adhesion molecule. Krantz DE, et al. **EMBO J** 1990 Jun;9(6):1969–77

Coordinate action of a proximal homeoprotein binding site and a distal sequence confers the Ultrabithorax expression pattern in the visceral mesoderm. Müller J, et al. **EMBO J** 1989 Dec 20;8(13):4143–51

The role of ACE3 in Drosophila chorion gene amplification. Orr-Weaver TL, et al. **EMBO J** 1989 Dec 20;8(13):4153–62

Heat shock and the sorting of luminal ER proteins. Pelham HR. **EMBO J** 1989 Nov;8(11):3171–6 (76 ref.)

The Drosophila hairy protein acts in both segmentation and bristle patterning and shows homology to N-myc. Rushlow CA, et al. **EMBO J** 1989 Oct;8(10):3095–103

Heterogeneity of Drosophila nicotinic acetylcholine receptors: SAD, a novel developmentally regulated alpha-subunit. Sawruk E, et al. **EMBO J** 1990 Sep; 9(9):2671–7

Molecular analysis of the bicoid gene from Drosophila pseudoobscura: identification of conserved domains within coding and noncoding regions of the bicoid mRNA. Seeger MA, et al. **EMBO J** 1990 Sep;9(9):2977–87

The scute (T4) gene acts as a numerator element of the X:a signal that determines the state of activity of sex-lethal in Drosophila. Torres M, et al. **EMBO J** 1989 Oct; 8(10):3079–86

Homeotic gene expression in the visceral mesoderm of Drosophila embryos. Tremml G, et al. **EMBO J** 1989 Sep; 8(9):2677–85

An essential role of even-skipped for homeotic gene expression in the Drosophila visceral mesoderm. Tremml G, et al. **EMBO J** 1989 Sep;8(9):2687–93

A synthetic homeodomain binding site acts as a cell type specific, promoter specific enhancer in Drosophila embryos. Vincent JP, et al. **EMBO J** 1990 Aug;9(8):2573–8

Regulatory elements controlling expression of the Drosophila homeotic gene fork head. Weigel D, et al. **EMBO J** 1990 Apr;9(4):1199–207

The A- and B-type cyclins of Drosophila are accumulated and destroyed in temporally distinct events that define separable phases of the G2-M transition. Whitfield WG, et al. **EMBO J** 1990 Aug;9(8):2563–72

Virus-like particle formation of Drosophila copia through autocatalytic processing. Yoshioka K, et al. **EMBO J** 1990 Feb;9(2):535–41

Electron microscopic analysis of the E polytene chromosome of Drosophila subobscura: divisions 57, 58 and 59. Cuenca JB, et al. **Eur J Cell Biol** 1989 Dec;50(2):370–5

Low allozyme and mtDNA variability in the island endemic species Drosophila sechellia (D. melanogaster complex). Cariou ML, et al. **Experientia** 1990 Jan 15;46(1):101–4

Structural and functional stability of foreign genes in transgenic tobacco plants. Vyskot B, et al. **Folia Biol (Praha)** 1989;35(6):360–72

The Drosophila PROS-28.1 gene is a member of the proteasome gene family. Haass C, et al. **Gene** 1990 Jun 15;90(2):235–41

Reprogramming cell fate in the developing Drosophila retina: transformation of R7 cells by ectopic expression of rough. Basler K, et al. **Genes Dev** 1990 May;4(5):728–39

Localized surface activity of torso, a receptor tyrosine kinase, specifies terminal body pattern in Drosophila. Casanova J, et al. **Genes Dev** 1989 Dec;3(12B):2025–38

Expression and embryonic function of empty spiracles: a Drosophila homeo box gene with two patterning functions on the anterior-posterior axis of the embryo. Dalton D, et al. **Genes Dev** 1989 Dec;3(12A):1940–56

Functional analysis of NTF-1, a developmentally regulated Drosophila transcription factor that binds neuronal cis elements. Dynlacht BD, et al. **Genes Dev** 1989 Nov; 3(11):1677–88

Repression of ci-D in posterior compartments of Drosophila by engrailed. Eaton S, et al. **Genes Dev** 1990 Jun; 4(6):1068–77

Neuronal development in the Drosophila compound eye: rap gene function is required in photoreceptor cell R8 for ommatidial pattern formation. Karpilow J, et al. **Genes Dev** 1989 Dec;3(12A):1834–44

Posterior localization of vasa protein correlates with, but is not sufficient for, pole cell development. Lasko PF, et al. **Genes Dev** 1990 Jun;4(6):905–21

The Drosophila Fos-related AP-1 protein is a developmentally regulated transcription factor. Perkins KK, et al. **Genes Dev** 1990 May;4(5):822–34

The serendipity alpha gene encodes a membrane-associated protein required for the cellularization of the Drosophila embryo. Schweisguth F, et al. **Genes Dev** 1990 Jun; 4(6):922–31

Bicaudal-D, a Drosophila gene involved in developmental asymmetry: localized transcript accumulation in ovaries and sequence similarity to myosin heavy chain tail domains. Suter B, et al. **Genes Dev** 1989 Dec;3(12A):1957–68

The Notch locus and the genetic circuitry involved in early Drosophila neurogenesis. Xu T, et al. **Genes Dev** 1990 Mar; 4(3):464–75

The morphogenetic and regulatory functions of the Drosophila Abdominal-B gene are encoded in overlapping RNAs transcribed from separate promoters. Zavortink M, et al. **Genes Dev** 1989 Dec;3(12A):1969–81

Mariner, Mos and associated aberrant traits in Drosophila mauritiana. Jacobson JW. **Genet Res** 1990 Jun;55(3):153–8

Restriction map and alpha-amylase activity variation among Drosophila mutation accumulation lines. Tachida H, et al. **Genet Res** 1989 Dec;54(3):197–203

New gene arrangements in natural populations of Drosophila subobscura. Gosteli M, et al. **Genetica** 1989;79(2):115–20

Synthesis of an attached autosome, C(3)RM, in Drosophila pseudoobscura. Harshman LG, et al. **Genetica** 1990; 80(2):87–91

Inheritance of cold shock tolerance in hybrids of Drosophila virilis and Drosophila lummei. Heino R, et al. **Genetica** 1989;79(1):17–25

Unusual prophase structures and multiple nucleoli in male meiosis of Drosophila species of the virilis group. Klasterska I, et al. **Genetica** 1990;80(3):181–7

Genetic changes in mating activity in laboratory strains of Drosophila subobscura. Pascual M, et al. **Genetica** 1990; 80(1):39–43

Metaphase karyotype differentiation in eight species of the montium subgroup of Drosophila. Shyamala BV, et al. **Genetica** 1989;79(3):191–6

Biochemical phylogeny of seven Indian species of the montium subgroup of Drosophila. Shyamala BV, et al. **Genetica** 1990;81(1):71–5

Chromosomal analysis and phylogenetic relationships in the Drosophila nasuta subgroup. I. Phylogenetic relationships within the Drosophila sulfurigaster species complex. Suzuki YM, et al. **Genetica** 1990;80(1):53–66

mus308 mutants of Drosophila exhibit hypersensitivity to DNA cross-linking agents and are defective in a deoxyribonuclease. Boyd JB, et al. **Genetics** 1990 Aug; 125(4):813–9

Insertion and excision of the transposable element mariner in Drosophila. Bryan G, et al. **Genetics** 1990 May; 125(1):103–14

Evidence for horizontal transmission of the P transposable element between Drosophila species. Daniels SB, et al. **Genetics** 1990 Feb;124(2):339–55

Nucleolar dominance and replicative dominance in Drosophila interspecific hybrids. Goodrich-Young C, et al. **Genetics** 1989 Oct;123(2):349–58

Effect of abx, bx and pbx mutations on expression of homeotic genes in Drosophila larvae. Little JW, et al. **Genetics** 1990 Apr;124(4):899–908

An unusual Y chromosome of Drosophila simulans carrying amplified rDNA spacer without rRNA genes. Lohe AR, et al. **Genetics** 1990 Jun;125(2):399–406

Can mating preferences explain changes in mtDNA haplotype frequencies? MacRae AF, et al. **Genetics** 1990 Apr;124(4):999–1001

Mutations in polycombeotic, a Drosophila polycomb-group gene, cause a wide range of maternal and zygotic phenotypes. Phillips MD, et al. **Genetics** 1990 May; 125(1):91–101

Ecological aspects of the heritability of body size in Drosophila buzzatii. Prout T, et al. **Genetics** 1989 Dec; 123(4):803–13

Distinguishing the forces controlling genetic variation at the Xdh locus in Drosophila pseudoobscura. Riley MA, et al. **Genetics** 1989 Oct;123(2):359–69

Are mitochondrial DNA variants selectively non-neutral? [comment] Singh RS, et al. **Genetics** 1990 Apr;124(4):995–7 Comment on: Genetics 1988 Oct;120(2):485–94.

Dosage effects of a Drosophila sodium channel gene on behavior and axonal excitability. Stern M, et al. **Genetics** 1990 Jan;124(1):133–43

Analysis of the Om(1D) locus in Drosophila ananassae. Tanda S, et al. **Genetics** 1989 Nov;123(3):495–502

Tissue-specific expression phenotypes of Hawaiian Drosophila Adh genes in Drosophila melanogaster transformants. Wu CY, et al. **Genetics** 1990 Jul; 125(3):599–610

Selection in natural and experimental populations of Drosophila pseudoobscura. Anderson WW. **Genome** 1989; 31(1):239–45 (41 ref.)

Y chromosomal fertility genes of Drosophila: a new type of eukaryotic genes. Hennig W, et al. **Genome** 1989; 31(2):561–71 (44 ref.)

The genetics of abnormal abdomen, incomplete abdomen, and bobbed in Drosophila buzzatii. Knibb WR, et al. **Genome** 1989 Oct;32(5):754–61

Intraspecific and interspecific genetic variation in Drosophila. Powell JR, et al. **Genome** 1989;31(1):233–8

Probing Drosophila gene function by antisense RNA. Schuh R, et al. **Genome** 1989;31(1):422–5

Natural selection and ribosomal DNA in Drosophila. Templeton AR, et al. **Genome** 1989;31(1):296–303 (22 ref.)

Advances in the genetics of reproductive isolation in Drosophila. Zouros E. **Genome** 1989;31(1):211–20 (91 ref.)

Heterochromatin heterogeneity in Drosophila chromosomes detected by AluI-banding. Faccio Dolfini S. **Hereditas** 1990;112(2):141–9

Genetic variation in a modifier system affecting the expression of bare mutant of Drosophila subobscura. Alvarez G, et al. **Heredity (Edinburgh)** 1990 Feb;64 (Pt 1):55–66

Host acceptance and life-history traits in Drosophila buscki: tests of the hierarchy-threshold model. Courtney SP, et al. **Heredity (Edinburgh)** 1990 Jun;64 (Pt 3):371–5

Localization of genes causing postzygotic isolation in two hybridizations involving Drosophila pseudoobscura. Orr HA. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):231–7

Breeding structure of natural populations of Drosophila buzzatii: effects of the distribution of larval substrates. Thomas RH, et al. **Heredity (Edinburgh)** 1990 Jun;64 (Pt 3):355–65

Metaphase chromosomes of four species of the Drosophila nasuta subgroup. Hatsumi M, et al. **Idengaku Zasshi** 1988 Oct;63(5):435–44

Evolutionary genetics of the Drosophila montium subgroup. I. Reproductive isolations and the phylogeny [published erratum appears in Idengaku Zasshi 1989 Dec;64(6):503–4] Kim BK, et al. **Idengaku Zasshi** 1989 Jun;64(3):177–90

Effects of intragenic recombination on Est–alpha allele frequencies in natural populations of Drosophila virilis. Tsuno K. **Idengaku Zasshi** 1989 Feb;64(1):17–26

Purified Drosophila transcription factor, Adh distal factor–1 (Adf–1), binds to sites in several Drosophila promoters and activates transcription. England BP, et al. **J Biol Chem** 1990 Mar 25;265(9):5086–94

Isolation and characterization of the Drosophila nuclear envelope otefin cDNA. Padan R, et al. **J Biol Chem** 1990 May 15;265(14):7808–13

Organization and expression of the Drosophila Phe–Met–Arg–Phe–NH2 neuropeptide gene. Schneider LE, et al. **J Biol Chem** 1990 Apr 25;265(12):6890–5

Sequence similarity of the amino–terminal domain of Drosophila beta spectrin to alpha actinin and dystrophin. Byers TJ, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1633–41

The complete sequence of Drosophila alpha–spectrin: conservation of structural domains between alpha–spectrins and alpha–actinin. Dubreuil RR, et al. **J Cell Biol** 1989 Nov;109(5):2197–205

Multiple replication origins are used during Drosophila chorion gene amplification. Heck MM, et al. **J Cell Biol** 1990 Apr;110(4):903–14

Drosophila laminin: sequence of B2 subunit and expression of all three subunits during embryogenesis. Montell DJ, et al. **J Cell Biol** 1989 Nov;109(5):2441–53

Analysis of photoreceptor membrane turnover in a Drosophila visual mutant, rdgA, by electron microscope autoradiography. Suzuki E, et al. **J Electron Microsc (Tokyo)** 1990;39(1):50–3

Chemical excitation and inactivation in photoreceptors of the fly mutants trp and nss. Suss E, et al. **J Gen Physiol** 1989 Sep;94(3):465–91

Evolution of arginine kinase within the genus Drosophila. Collier GE. **J Hered** 1990 May–Jun;81(3):177–82

Genetic mapping of the Adh locus in the repleta group of Drosophila by in situ hybridization. Labrador M, et al. **J Hered** 1990 Jan–Feb;81(1):83–6

Evolution of the mojavensis cluster of cactophilic Drosophila with descriptions of two new species. Ruiz A, et al. **J Hered** 1990 Jan–Feb;81(1):30–42

Inversion polymorphism and linkage disequilibrium in Drosophila sulfurigaster neonasuta. Shyamala BV, et al. **J Hered** 1989 Nov–Dec;80(6):488–90

Determination of the three–dimensional structure of the Antennapedia homeodomain from Drosophila in solution by 1H nuclear magnetic resonance spectroscopy. Billeter M, et al. **J Mol Biol** 1990 Jul 5;214(1):183–97

Optimal heat–induced expression of the Drosophila hsp26 gene requires a promoter sequence containing (CT)n.(GA)n repeats. Glaser RL, et al. **J Mol Biol** 1990 Feb 20; 211(4):751–61

Characterization of the long terminal repeats of micropia elements microdissected from the Y–chromosomal lampbrush loops "threads" of Drosophila hydei. Lankenau DH, et al. **J Mol Biol** 1989 Oct 5;209(3):493–7

Evolution of the autosomal chorion cluster in Drosophila. II. Chorion gene expression and sequence comparisons of the s16 and s19 genes in evolutionarily distant species. Fenerjian MG, et al. **J Mol Evol** 1989 Aug;29(2):108–25

Transgenic regulation of moth chorion gene promoters in Drosophila: tissue, temporal, and quantitative control of four bidirectional promoters. Mitsialis SA, et al. **J Mol Evol** 1989 Dec;29(6):486–95

Discrepancy in divergence of the mitochondrial and nuclear genomes of Drosophila teissieri and Drosophila yakuba. Monnerot M, et al. **J Mol Evol** 1990 Jun;30(6):500–8

Conservatism of sites of tRNA loci among the linkage groups of several Drosophila species. Tonzetich J, et al. **J Mol Evol** 1990 Feb;30(2):182–8

Conservation of intron position indicates separation of major and variant H2As is an early event in the evolution of eukaryotes. van Daal A, et al. **J Mol Evol** 1990 May; 30(5):449–55

Rapid evolution in a fraction of the Drosophila nuclear genome. Werman SD, et al. **J Mol Evol** 1990 Mar; 30(3):281–9

Second European meeting on the neurogenetics of Drosophila. **J Neurogenet** 1989 Aug;5(4):257–77

Genetic and developmental analysis of irreC, a genetic function required for optic chiasm formation in Drosophila. Boschert U, et al. **J Neurogenet** 1990 Apr;6(3):153–71

Genetic aspects of nervous system development. Hardy PA. **J Neurogenet** 1990 Apr;6(3):115–31 (56 ref.)

A mutation that causes muscle defects also affects catecholamine metabolism in Drosophila. Homyk T Jr, et al. **J Neurogenet** 1989 Nov;6(2):57–73

Altered synaptic transmission in Drosophila hyperkinetic mutants. Stern M, et al. **J Neurogenet** 1989 Aug;5(4):215–28

Interspecific comparison of a Drosophila gene encoding FMRFamide–related neuropeptides. Taghert PH, et al. **J Neurosci** 1990 Jun;10(6):1929–42

Alterations in activation gating of single Shaker A–type potassium channels by the Sh5 mutation. Zagotta WN, et al. **J Neurosci** 1990 Jun;10(6):1799–810

Early events in the development of Drosophila peripheral nervous system. Ghysen A, et al. **J Physiol (Paris)** 1990; 84(1):11–20 (43 ref.)

Spatial harmonics and pattern specification in early Drosophila development. Part I. Bifurcation sequences and gene expression. Goodwin BC, et al. **J Theor Biol** 1990 Jun 7;144(3):303–19

Spatial harmonics and pattern specification in early Drosophila development. Part II. The four colour wheels model. Kauffman SA, et al. **J Theor Biol** 1990 Jun 7; 144(3):321–45

Modeling the Drosophila pair–rule pattern by reaction–diffusion: gap input and pattern control in a 4–morphogen system. Lacalli TC. **J Theor Biol** 1990 May 22;144(2):171–94 (42 ref.)

Mitochondrial DNA variation and genetic structure in Old–World populations of Drosophila subobscura. Afonso JM, et al. **Mol Biol Evol** 1990 Mar;7(2):123–42

Evolution of the glucose dehydrogenase gene in Drosophila. Krasney PA, et al. **Mol Biol Evol** 1990 Mar;7(2):155–77

Colonization of America by Drosophila subobscura: effect of the founder event on the mitochondrial DNA polymorphism. Rozas J, et al. **Mol Biol Evol** 1990 Jan; 7(1):103–9

A shift in the third–codon–position nucleotide frequency in alcohol dehydrogenase genes in the genus Drosophila. Starmer WT, et al. **Mol Biol Evol** 1989 Sep;6(5):546–52

UV cross–linking identifies four polypeptides that require the TATA box to bind to the Drosophila hsp70 promoter. Gilmour DS, et al. **Mol Cell Biol** 1990 Aug;10(8):4233–8

Evolutionary conservation of homeodomain–binding sites and other sequences upstream and within the major transcription unit of the Drosophila segmentation gene engrailed. Kassis JA, et al. **Mol Cell Biol** 1989 Oct; 9(10):4304–11

A Drosophila ribosomal protein functions in mammalian cells. Maki CG, et al. **Mol Cell Biol** 1990 Sep;10(9):4524–8

The Adh gene promoters of Drosophila melanogaster and Drosophila orena are functionally conserved and share features of sequence structure and nuclease–protected sites. Moses K, et al. **Mol Cell Biol** 1990 Feb;10(2):539–48

The Drosophila even–skipped promoter is transcribed in a stage–specific manner in vitro and contains multiple, overlapping factor–binding sites. Read D, et al. **Mol Cell Biol** 1990 Aug;10(8):4334–44

Direct control of antennal identity by the spineless–aristapedia gene of Drosophila. Burgess EA, et al. **Mol Gen Genet** 1990 May;221(3):347–57

The generation of transplasmic Drosophila simulans by cytoplasmic injection: effects of segregation and selection on the perpetuation of mitochondrial DNA heteroplasmy. de Stordeur E, et al. **Mol Gen Genet** 1989 Dec; 220(1):127–32

Primary structure and functional aspects of the gene coding for the second–largest subunit of RNA polymerase III of Drosophila. Kontermann R, et al. **Mol Gen Genet** 1989 Nov;219(3):373–80

Structural organization and expression of amplified chromosomal sequences, which include the rudimentary gene, in cultured Drosophila cells resistant to N–(phosphonacetyl)–L–aspartate. Laval M, et al. **Mol Gen Genet** 1989 Dec;220(1):102–12

A Chlamydomonas gene encodes a G protein beta subunit–like polypeptide. Schloss JA. **Mol Gen Genet** 1990 May;221(3):443–52

Overproduction and translational regulation of rp49 ribosomal protein mRNA in transgenic Drosophila carrying extra copies of the gene. Tamate HB, et al. **Mol Gen Genet** 1990 Apr;221(2):171–5

Apurinic endonuclease activity from wild–type and repair–deficient mei–9 Drosophila ovaries. Venugopal S, et al. **Mol Gen Genet** 1990 May;221(3):421–6

Conserved function in Nicotiana tabacum of a single Drosophila hsp70 promoter heat shock element when fused to a minimal T–DNA promoter. Wing D, et al. **Mol Gen Genet** 1989 Oct;219(1–2):9–16

Drosophila development: making stripes inelegantly [news] Akam M. **Nature** 1989 Sep 28;341(6240):282–3

Mutant Drosophila embryos in which all cells adopt a neural fate. Bourouis M, et al. **Nature** 1989 Oct 5;341(6241):442–4

The caudal gene product is a direct activator of fushi tarazu transcription during Drosophila embryogenesis. Dearolf CR, et al. **Nature** 1989 Sep 28;341(6240):340–3

Are cross–regulatory interactions between homoeotic genes functionally significant? González–Reyes A, et al. **Nature** 1990 Mar 1;344(6261):78–80

A morphogenetic gradient of hunchback protein organizes the expression of the gap genes Krüppel and knirps in the early Drosophila embryo. Hülskamp M, et al. **Nature** 1990 Aug 9;346(6284):577–80

Two rat homologues of Drosophila achaete–scute specifically expressed in neuronal precursors. Johnson JE, et al. **Nature** 1990 Aug 30;346(6287):858–61

A protein with several possible membrane–spanning domains encoded by the Drosophila segment polarity gene patched. Nakano Y, et al. **Nature** 1989 Oct 12;341(6242):508–13

Complete replacement of mitochondrial DNA in Drosophila. Niki Y, et al. **Nature** 1989 Oct 12;341(6242):551–2

Relationship between the product of the Drosophila ultraspiracle locus and the vertebrate retinoid X receptor. Oro AE, et al. **Nature** 1990 Sep 20;347(6290):298–301

Krüppel requirement for knirps enhancement reflects overlapping gap gene activities in the Drosophila embryo. Pankratz MJ, et al. **Nature** 1989 Sep 28;341(6240):337–40

Similarity of the product of the Drosophila neurogenic gene big brain to transmembrane channel proteins. Rao Y, et al. **Nature** 1990 May 10;345(6271):163–7

Dependence of position–effect variegation in Drosophila on dose of a gene encoding an unusual zinc–finger protein. Reuter G, et al. **Nature** 1990 Mar 15;344(6263):219–23

Sequence–specific DNA–binding activities of the gap proteins encoded by hunchback and Krüppel in Drosophila. Stanojević D, et al. **Nature** 1989 Sep 28;341(6240):331–5

The products of the Drosophila gap genes hunchback and Krüppel bind to the hunchback promoters. Treisman J, et al. **Nature** 1989 Sep 28;341(6240):335–7

Drosophila glue protein gene expression. A proposal for its ecdysone–dependent developmental control. Kress H, et al. **Naturwissenschaften** 1990 Jul;77(7):317–24 (41 ref.)

Cloning, localization, and permanent expression of a Drosophila octopamine receptor. Arakawa S, et al. **Neuron** 1990 Mar;4(3):343–54

The role of cell–cell interaction in the development of the Drosophila visual system. Banerjee U, et al. **Neuron** 1990 Feb;4(2):177–87 (67 ref.)

Alteration of potassium channel gating: molecular analysis of the Drosophila Sh5 mutation. Gautam M, et al. **Neuron** 1990 Jul;5(1):67–73

Neuronal acetylcholine receptors in Drosophila: mature and immature transcripts of the ard gene in the developing central nervous system. Hermans–Borgmeyer I, et al. **Neuron** 1989 Feb;2(2):1147–56

Differential splicing generates a nervous system–specific form of Drosophila neuroglian. Hortsch M, et al. **Neuron** 1990 May;4(5):697–709

Molecular analysis of no–on–transient A, a gene required for normal vision in Drosophila. Jones KR, et al. **Neuron** 1990 May;4(5):711–23

Multiple products of the Drosophila Shaker gene may contribute to potassium channel diversity. Kamb A, et al. **Neuron** 1988 Jul;1(5):421–30

Isolation and characterization of a Drosophila neuropeptide gene. Nambu JR, et al. **Neuron** 1988 Mar;1(1):55–61

Isolation and characterization of the gene for Drosophila tyrosine hydroxylase. Neckameyer WS, et al. **Neuron** 1989 Feb;2(2):1167–75

Use of a new strategy to isolate and characterize 436 Drosophila cDNA clones corresponding to RNAs detected in adult heads but not in early embryos. Palazzolo MJ, et al. **Neuron** 1989 Oct;3(4):527–39

Rhodopsin activation causes retinal degeneration in Drosophila rdgC mutant. Steele F, et al. **Neuron** 1990 Jun; 4(6):883–90

Four cDNA clones from the Shaker locus of Drosophila induce kinetically distinct A–type potassium currents in Xenopus oocytes. Timpe LC, et al. **Neuron** 1988 Oct; 1(8):659–67

Proper function of the Drosophila trp gene product during pupal development is important for normal visual transduction in the adult. Wong F, et al. **Neuron** 1989 Jul; 3(1):81–94

Properties of ShB A–type potassium channels expressed in Shaker mutant Drosophila by germline transformation. Zagotta WN, et al. **Neuron** 1989 Dec;3(6):773–82

In vivo protein phosphorylation in Drosophila mutants defective in learning and memory. Buxbaum JD, et al. **Neurosci Lett** 1989 Oct 9;104(3):351–5

The transposable element Uhu from Hawaiian Drosophila—member of the widely dispersed class of Tc1–like transposons. Brezinsky L, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2053–9

The retrotransposon copia controls the relative levels of its gene products post–transcriptionally by differential expression from its two major mRNAs. Brierley C, et al. **Nucleic Acids Res** 1990 May 25;18(10):2947–51

Shal, Shab, and Shaw: three genes encoding potassium channels in Drosophila. Butler A, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2173–4

Alternative DNA–protein interactions in variable–length internucleosomal regions associated with Drosophila Adh distal promoter expression. Ewel A, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1771–81

The Drosophila PROS–29 gene is a new member of the PROS–gene family. Haass C, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):4018

The chorion genes of the medfly, Ceratitis capitata, I: Structural and regulatory conservation of the s36 gene relative to two Drosophila species. Konsolaki M, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1731–7

Isolation and characterization of a Drosophila hydei histone DNA repeat unit. Kremer H, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1573–80

cDNA and deduced amino acid sequence of Drosophila catalase. Orr EC, et al. **Nucleic Acids Res** 1990 Jun 25; 18(12):3663

PCR amplification of DNA microdissected from a single polytene chromosome band: a comparison with conventional microcloning. Saunders RD, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9027–37

Supragenic loop organization: mapping in Drosophila embryos, of scaffold–associated regions on a 800 kilobase DNA continuum cloned from the 14B–15B first chromosome region. Surdej P, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3713–22

Nucleotide sequence of the Adh–1 gene of Drosophila navojoa. Weaver JR, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7524

A long interspersed repetitive element--the I factor of Drosophila teissieri--is able to transpose in different Drosophila species. Abad P, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8887–91

Targeted gene mutations in Drosophila. Ballinger DG, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9402–6

Chromosome ends in Drosophila without telomeric DNA sequences. Biessmann H, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1758–61

Constructing deletions with defined endpoints in Drosophila. Cooley L, et al. **Proc Natl Acad Sci U S A** 1990 Apr; 87(8):3170–3

Characterization of two RNAs transcribed from the cis-regulatory region of the abd-A domain within the Drosophila bithorax complex. Cumberledge S, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3259–63

Rescue of the learning defect in dunce, a Drosophila learning mutant, by an allele of rutabaga, a second learning mutant. Feany MB. **Proc Natl Acad Sci U S A** 1990 Apr; 87(7):2795–9

Mitochondrial DNA evolution in experimental populations of Drosophila subobscura. Fos M, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4198–201

Structural and functional comparisons of the Drosophila virilis and Drosophila melanogaster rough genes. Heberlein U, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5916–20

Expression of Drosophila Shaker potassium channels in mammalian cells infected with recombinant vaccinia virus. Leonard RJ, et al. **Proc Natl Acad Sci U S A** 1989 Oct; 86(19):7629–33

The trithorax gene, a trans-acting regulator of the bithorax complex in Drosophila, encodes a protein with zinc-binding domains. Mazo AM, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2112–6

Comparison of the sevenless genes of Drosophila virilis and Drosophila melanogaster. Michael WM, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5351–3

Use of second-site suppressor mutations in Drosophila to identify components of the transcriptional machinery. Mortin MA. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4864–8

Engrailed, a homeodomain protein, can repress in vitro transcription by competition with the TATA box-binding protein transcription factor IID. Ohkuma Y, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2289–93

Structure and activity of the sevenless protein: a protein tyrosine kinase receptor required for photoreceptor development in Drosophila. Simon MA, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8333–7

Isolation and structure of an arrestin gene from Drosophila. Smith DP, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(3):1003–7

Drosophila glutathione S-transferase 1-1 shares a region of sequence homology with the maize glutathione S-transferase III. Toung YP, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):31–5

Comparison of homeobox-containing genes of the honeybee and Drosophila. Walldorf U, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9971–5

The yolk proteins and their genes in Drosophila. Bownes M. **Prog Clin Biol Res** 1990;342:336–42 (37 ref.)

Ecdysone response elements of a Drosophila gene. Cherbas P, et al. **Prog Clin Biol Res** 1990;342:112–5

Molecular genetic mechanisms of tissue-specific esterase isozymes and protein expression in Drosophila. Korochkin L, et al. **Prog Clin Biol Res** 1990;344:399–440

Retinal degeneration and photoreceptor maintenance in Drosophila: rdgB and its interaction with other mutants. Stark WS, et al. **Prog Clin Biol Res** 1989;314:467–89

Xotch, the Xenopus homolog of Drosophila notch. Coffman C, et al. **Science** 1990 Sep 21;249(4975):1438–41

Genetic suppression of mutations in the Drosophila abl proto-oncogene homolog. Gertler FB, et al. **Science** 1990 May 18;248(4957):857–60

Regulated splicing of the Drosophila P transposable element third intron in vitro: somatic repression. Siebel CW, et al. **Science** 1990 Jun 8;248(4960):1200–8

K+ current diversity is produced by an extended gene family conserved in Drosophila and mouse. Wei A, et al. **Science** 1990 May 4;248(4955):599–603

Two gap genes mediate maternal terminal pattern information in Drosophila. Weigel D, et al. **Science** 1990 Apr 27;248(4954):495–8

Antibody-mediated activation of Drosophila heat shock factor in vitro. Zimarino V, et al. **Science** 1990 Aug 3; 249(4968):546–9

A molecular view of the Ultrabithorax homeotic gene of Drosophila. Beachy PA. **Trends Genet** 1990 Feb;6(2):46–51 (42 ref.)

Transcription factors and the control of Drosophila development. Biggin MD, et al. **Trends Genet** 1989 Nov; 5(11):377–83 (42 ref.)

I transposable elements and I-R hybrid dysgenesis in Drosophila. Bucheton A. **Trends Genet** 1990 Jan;6(1):16–21 (36 ref.)

Closely watched clocks: molecular analysis of circadian rhythms in Neurospora and Drosophila. Dunlap JC. **Trends Genet** 1990 May;6(5):159–65 (38 ref.)

In situ hybridization of Drosophila polytene chromosomes with digoxigenin-dUTP-labeled probes. Engels WR, et al. **Trends Genet** 1989 Nov;5(11):366

Drosophila in Crete: a flying visit. Hartley D, et al. **Trends Genet** 1990 Jul;6(7):199–201

The egg came first, of course! Anterior-posterior pattern formation in Drosophila embryogenesis and oogenesis. Manseau LJ, et al. **Trends Genet** 1989 Dec;5(12):400–5 (38 ref.)

[Study on genetic polymorphism of isozyme in natural populations of Drosophila virilis] He CZ, et al. **I Chuan Hsueh Pao** 1989;16(1):34–41 (Eng. Abstr.) **(Chi)**

[The est locus of Drosophila virilis contains two related genes] Enikolopov GN, et al. **Dokl Akad Nauk SSSR** 1989; 306(5):1247–9 **(Rus)**

[Attenuation of translation upon the use of alternative promotors of the gene for esterase S of Drosophila virilis] Enikolopov GN. **Dokl Akad Nauk SSSR** 1989; 307(4):988–91 **(Rus)**

[Cytogenetic localization of Acph-1 and Lap-1 genes in virilis group Drosophila] Katokhin AV. **Genetika** 1989 Oct; 25(10):1786–92 (Eng. Abstr.) **(Rus)**

[Development of resistance to the insecticide effect of juvenile hormone analog in Drosophila virilis: genetic and biochemical aspects] Raushenbakh IIu, et al. **Genetika** 1989 Nov;25(11):1979–87 (Eng. Abstr.) **(Rus)**

[In vitro transcription of esterase S gene in Drosophila virilis] Enikolopov GN, et al. **Mol Biol (Mosk)** 1989 Nov–Dec; 23(6):1589–95 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Role of receptor tyrosine kinases during Drosophila development. Hafen E, et al. **Ciba Found Symp** 1990; 150:191–204; discussion 204–11

Notch is required for successive cell decisions in the developing Drosophila retina. Cagan RL, et al. **Genes Dev** 1989 Aug;3(8):1099–112

Drosophila fasciclin I is a novel homophilic adhesion molecule that along with fasciclin III can mediate cell sorting. Elkins T, et al. **J Cell Biol** 1990 May;110(5):1825–32

Genesis of the Drosophila peripheral nervous system. Ghysen A, et al. **Trends Genet** 1989 Aug;5(8):251–5 (38 ref.)

A cellular basis for pattern formation in the insect epidermis. Martinez Arias A. **Trends Genet** 1989 Aug;5(8):262–7 (51 ref.)

IMMUNOLOGY

The immune response in Drosophila: pattern of cecropin expression and biological activity. Samakovlis C, et al. **EMBO J** 1990 Sep;9(9):2969–76

METABOLISM

Anti-actin immunoreactivity is retained in rhabdoms of Drosophila ninaC photoreceptors. Stowe S, et al. **Cell Tissue Res** 1990 May;260(3):431–4

Diversity and novel pharmacological properties of Ca2+ channels in Drosophila brain membranes. Pelzer S, et al. **EMBO J** 1989 Aug;8(8):2365–71

Hydrogen peroxide activates immediate binding of a Drosophila factor to DNA heat-shock regulatory element in vivo and in vitro. Becker J, et al. **Eur J Biochem** 1990 May 20;189(3):553–8

Enhancement of tyrosine kinase activity of the Drosophila epidermal growth factor receptor homolog by alterations of the transmembrane domain. Wides RJ, et al. **Eur J Biochem** 1990 May 20;189(3):637–45

Embryonic expression pattern of a family of Drosophila proteins that interact with a central nervous system regulatory element. Bray SJ, et al. **Genes Dev** 1989 Aug; 3(8):1130–45

Structure and distribution of the Notch protein in developing Drosophila [published erratum appears in Genes Dev 1989 Dec;3(12A):2020] Kidd S, et al. **Genes Dev** 1989 Aug; 3(8):1113–29

Effect of sodium selenite on antioxidative enzymes of banana fruitfly. Kaur M, et al. **Gerontology** 1989;35(4):188–91

Changes in boron concentration during development and ageing of Drosophila and effect of dietary boron on life span. Massie HR, et al. **Mech Ageing Dev** 1990 Mar 31; 53(1):1–7

Increasing amyloid peptide precursor production and its impact on Alzheimer's disease. Vitek MP. **Neurobiol Aging** 1989 Sep–Oct;10(5):471–3; discussion 477–8

MICROBIOLOGY

Isolation and pathogenicity of Serratia marcescens from adult house flies infected with Entomophthora muscae. Benoit TG, et al. **J Invertebr Pathol** 1990 Jan;55(1):142–4

PHYSIOLOGY

Drosophila extracellular matrix. Fessler JH, et al. **Annu Rev Cell Biol** 1989;5:309–39 (134 ref.)

Insectivory and social digestion in Drosophila. Gregg TG, et al. **Biochem Genet** 1990 Apr;28(3–4):197–207

Voltage-dependent gating of Shaker A-type potassium channels in Drosophila muscle. Zagotta WN, et al. **J Gen Physiol** 1990 Jan;95(1):29–60

Examination of paralysis in Drosophila temperature-sensitive paralytic mutations affecting sodium channels; a proposed mechanism of paralysis. Nelson JC, et al. **J Neurobiol** 1990 Apr;21(3):453–69

Compartments and the topography of leg afferent projections in Drosophila. Murphey RK, et al. **J Neurosci** 1989 Sep; 9(9):3209–17

Conservation biology: divided the fruitflies fall [news] Ims RA, et al. **Nature** 1989 Nov 2;342(6245):21–2

Spider toxins selectively block calcium currents in Drosophila. Leung HT, et al. **Neuron** 1989 Dec;3(6):767–72

Phorbol ester induces photoreceptor-specific degeneration in a Drosophila mutant. Minke B, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):113–7

Have cycles in the courtship song of Drosophila been detected? von Schilcher F. **Trends Neurosci** 1989 Sep; 12(9):311–3 (25 ref.)

RADIATION EFFECTS

Nuclear power plants and natural populations of Mexican Drosophila. Levine L, et al. **Genome** 1989;31(1):256–64

ULTRASTRUCTURE

Electron microscope immunolocation of gap junctions in Drosophila. Ryerse JS. **Tissue Cell** 1989;21(6):835–9

DROSOPHILA MELANOGASTER

ANALYSIS

Drosophila cell extracts contain a TGF-beta-like activity. Benzakour O, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1178–84

The fruitfly Drosophila melanogaster contains a novel charged adipokinetic-hormone-family peptide. Schaffer MH, et al. **Biochem J** 1990 Jul 15;269(2):315–20

Characterization of the mitochondrial porin from Drosophila melanogaster. De Pinto V, et al. **Biochim Biophys Acta** 1989 Dec 11;987(1):1–7

High-resolution two-dimensional gel analysis of proteins in wing imaginal discs: a data base of Drosophila. Santarén JF, et al. **Exp Cell Res** 1990 Aug;189(2):169–76

Immunological and molecular characterization of Go alpha-like proteins in the Drosophila central nervous system. Thambi NC, et al. **J Biol Chem** 1989 Nov 5; 264(31):18552–60

ANATOMY & HISTOLOGY

Morphometric analysis of thoracic muscles in wildtype and in bithorax Drosophila. Egger MD, et al. **Anat Rec** 1990 Mar;226(3):373–82

Fine structure of a sensory organ in the arista of Drosophila melanogaster and some other dipterans. Foelix RF, et al. **Cell Tissue Res** 1989 Nov;258(2):277–87

Identification of actin filaments in the rhabdomeral microvilli of Drosophila photoreceptors. Arikawa K, et al. **J Cell Biol** 1990 Jun;110(6):1993–8

Modality-specific axonal projections in the CNS of the flies Phormia and Drosophila. Murphey RK, et al. **J Comp Neurol** 1989 Dec 8;290(2):185–200

CYTOLOGY

Ionic coupling and mitotic synchrony of siblings in a Drosophila cell line. Spray DC, et al. **Exp Cell Res** 1989 Oct;184(2):509–17

DRUG EFFECTS

Inhibition of the genotoxicity of 3-amino-1-methyl-5H-pyrido[4,3-b]indole (Trp-P-2) in Drosophila by chlorophyll. Negishi T, et al. **Basic Life Sci** 1990;52:341–4

Mycotoxin induction of somatic mosaicism in Drosophila and DNA repair in mammalian liver cell cultures. Belitsky GA, et al. **Cell Biol Toxicol** 1985 Jun;1(3):133–43

Genotoxicity studies with Cuman L in Drosophila melanogaster. Hemavathy KC, et al. **Environ Mol Mutagen** 1989;14(4):252–3

Vestigial mutants of Drosophila melanogaster live better in the presence of aminopterin: increased level of dihydrofolate reductase in a mutant. Silber J, et al. **Mol Gen Genet** 1989 Sep;218(3):475–80

Genotoxicity of tartrazine studied in two somatic assays of Drosophila melanogaster. Tripathy NK, et al. **Mutat Res** 1989 Dec;224(4):479–83

Basic principles and evaluation of results of assays measuring genotoxic damage in somatic cells of Drosophila. Vogel EW, et al. **Prog Clin Biol Res** 1990;340B:149–58 (15 ref.)

Teratogenicity and toxicity of ethylene glycol monomethyl ether (2-methoxyethanol) in Drosophila melanogaster: involvement of alcohol dehydrogenase activity. Eisses KT. **Teratogenesis Carcinog Mutagen** 1989;9(5):315–25

[Toxicity of commercial fungicides in relation to the larvae of Drosophila melanogaster Meigen (Diptera, Drosophilidae) and effect on the sex ratio] Marchal-Ségault D. **J Environ Sci Health [B]** 1989 Aug;24(4):307–24 (Eng. Abstr.) **(Fre)**

[Phenocopying action of ether on mn d/SM5-strain Drosophila embryos] Mlinets VA, et al. **Tsitol Genet** 1989 Sep–Oct;23(5):38–44 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Mechanisms of a cellular decision during embryonic development of Drosophila melanogaster: epidermogenesis or neurogenesis. Campos-Ortega JA. **Adv Genet** 1990; 27:403–53 (142 ref.)

Diazepam induces abnormal mitosis in the early Drosophila

embryo. Callaini G, et al. **Biol Cell** 1989;67(3):313–20
Induction across germ layers in Drosophila mediated by a genetic cascade. Immerglück K, et al. **Cell** 1990 Jul 27; 62(2):261–8
Osmometric behavior of Drosophila melanogaster embryos. Lin TT, et al. **Cryobiology** 1989 Oct;26(5):453–71
A two-step method for permeabilization of Drosophila eggs. Lynch DV, et al. **Cryobiology** 1989 Oct;26(5):445–52
Characterization of intracellular ice formation in Drosophila melanogaster embryos. Myers SP, et al. **Cryobiology** 1989 Oct;26(5):472–84
Drosophila development. Ingham PW.
Curr Opin Cell Biol 1989 Dec;1(6):1127–31 (28 ref.)
Serendipity delta, a Drosophila zinc finger protein present in embryonic nuclei at the onset of zygotic gene transcription. Payre F, et al. **Dev Biol** 1989 Dec; 136(2):469–80
Differential expression of alternate forms of a Drosophila src protein during embryonic and larval tissue differentiation. Wadsworth SC, et al. **Dev Biol** 1990 Apr; 138(2):296–312
Vitellogenesis in Drosophila: sequestration of a yolk polypeptide/invertase fusion protein into developing oocytes. Yan YL, et al. **Dev Biol** 1990 Aug;140(2):281–90
l(1)pole hole is required maternally for pattern formation in the terminal regions of the embryo. Ambrosio L, et al. **Development** 1989 May;106(1):145–58
The promoter region of the Drosophila alpha 2-tubulin gene directs testicular and neural specific expression. Bo J, et al. **Development** 1989 Jul;106(3):581–7
Microtubule distribution reveals superficial metameric patterns in the early Drosophila embryo. Callaini G. **Development** 1989 Sep;107(1):35–41
Mitotic domains reveal early commitment of cells in Drosophila embryos. Foe VE. **Development** 1989 Sep; 107(1):1–22
Expression of laminin and of a laminin-related antigen during early development of Drosophila melanogaster. Garzino V, et al. **Development** 1989 May;106(1):17–27
Restoration of pole-cell-forming ability to u.v.-irradiated Drosophila embryos by injection of mitochondrial lrRNA. Kobayashi S, et al. **Development** 1989 Dec;107(4):733–42
Pre-existing neuronal pathways in the developing optic lobes of Drosophila. Tix S, et al. **Development** 1989 Apr; 105(4):739–46
Differential expression of heat shock proteins in Drosophila embryonic cells following metal ion exposure. Bournias-Vardiabasis N, et al. **Exp Cell Res** 1990 Aug; 189(2):177–82
An aspartic proteinase in Drosophila: maternal origin and yolk localization. Medina M, et al. **Int J Dev Biol** 1989 Jun;33(2):313–5
Microgravity effects on the oogenesis and development of embryos of Drosophila melanogaster laid in the Spaceshuttle during the Biorack experiment (ESA). Vernós I, et al. **Int J Dev Biol** 1989 Jun;33(2):213–26
Tissue-specific expression of the heat shock protein HSP27 during Drosophila melanogaster development. Pauli D, et al. **J Cell Biol** 1990 Sep;111(3):817–28
Three-dimensional optical microscopy using tilted views. Shaw PJ. **J Microsc** 1990 May;158 (Pt 2):165–72
Giant Drosophila neurons differentiated from cytokinesis-arrested embryonic neuroblasts. Wu CF, et al. **J Neurobiol** 1990 Apr;21(3):499–507
Axonal guidance and the development of muscle fiber-specific innervation in Drosophila embryos. Johansen J, et al. **J Neurosci** 1989 Dec;9(12):4318–32
Requirement for integrins during Drosophila wing development. Brower DL, et al. **Nature** 1989 Nov 16; 342(6247):285–7
Rescue of bicoid mutant Drosophila embryos by bicoid fusion proteins containing heterologous activating sequences. Driever W, et al. **Nature** 1989 Nov 9;342(6246):149–54
Cryopreservation of Drosophila melanogaster embryos. Steponkus PL, et al. **Nature** 1990 May 10;345(6271):170–2
Neurogenesis of the peripheral nervous system in Drosophila embryos: DNA replication patterns and cell lineages [published erratum appears in Neuron 1989 Nov;3(5):following 664] Bodmer R, et al. **Neuron** 1989 Jul; 3(1):21–32
Lineage, migration, and morphogenesis of longitudinal glia in the Drosophila CNS as revealed by a molecular lineage marker. Jacobs JR, et al. **Neuron** 1989 Jun;2(6):1625–31

ENZYMOLOGY

Investigations on the PGM (phosphoglucomutase) polymorphism by isoelectric focusing in Drosophila melanogaster. Cicchetti R, et al. **Biochem Genet** 1990 Jun; 28(5–6):247–55
Isolation of insecticide resistance-related forms of cytochrome P-450 from Drosophila melanogaster. Sundseth SS, et al. **Biochem J** 1990 Jan 1;265(1):213–7
Stabilization of the topoisomerase II-DNA cleavage complex by antineoplastic drugs: inhibition of enzyme-mediated DNA religation by 4'-(9-acridinylamino)methanesulfon-m-anisidide. Robinson MJ, et al. **Biochemistry** 1990 Mar 13; 29(10):2511–5
Purification and characterization of 6-pyruvoyl-tetrahydropterin synthase from Drosophila melanogaster. Park YS, et al. **Biochim Biophys Acta** 1990 Apr 19;1038(2):186–94
The purification of dihydrofolate reductase from Drosophila melanogaster. Rancourt SL, et al. **Biochim Biophys Acta** 1990 Jul 6;1039(3):261–8
Apurinic endonuclease activity remains constant during early Drosophila development. Margulies L, et al. **Cell Biol Toxicol** 1984 Oct;1(1):127–43
Regulation of Drosophila myosin ATPase activity by phosphorylation of myosin light chains—I. Wild-type fly. Takahashi S, et al. **Comp Biochem Physiol [B]** 1990; 95(1):179–81
A common ancestor for human placental 17 beta-hydroxysteroid dehydrogenase, Streptomyces coelicolor actIII protein, and Drosophila melanogaster alcohol dehydrogenase. Baker ME. **FASEB J** 1990 Feb 1;4(2):222–6
Xanthine dehydrogenase is transported to the Drosophila eye. Reaume AG, et al. **Genetics** 1989 Nov;123(3):503–9
Molecular population genetics of structural variants of esterase 6 in Drosophila melanogaster. Oakeshott JG, et al. **Genome** 1989;31(2):788–96
Diadenosine 5",5"' P1,P4-tetraphosphatase in Drosophila embryos: developmental regulation and characterization. Vallejo CG, et al. **Int J Biochem** 1989;21(11):1223–8
Drosophila melanogaster strand transferase. A protein that forms heteroduplex DNA in the absence of both ATP and single-strand DNA binding protein. Lowenhaupt K, et al. **J Biol Chem** 1989 Dec 5;264(34):20568–75
Biosynthesis of xanthurenic acid 8-O-beta-D-glucoside in Drosophila. Characterization of the xanthurenic acid:UDP-glucosyltransferase activity. Real MD, et al. **J Biol Chem** 1990 May 5;265(13):7407–12
Purification and partial amino acid sequences of phosphoinositide-specific phospholipase C of Drosophila eye. Toyoshima S, et al. **J Biol Chem** 1990 Sep 5; 265(25):14842–8
Homologous nuclear genes encode cytoplasmic and mitochondrial glutamine synthetase in Drosophila melanogaster. Caizzi R, et al. **J Mol Biol** 1990 Mar 5; 212(1):17–26
Drosophila melanogaster acetylcholinesterase gene. Structure, evolution and mutations. Fournier D, et al. **J Mol Biol** 1989 Nov 5;210(1):15–22
Tissue specific expression of the acetylcholinesterase gene in Drosophila melanogaster. Zádor E. **Mol Gen Genet** 1989 Sep;218(3):487–90
Cytochemical localization of a D-amino acid oxidizing enzyme in peroxisomes of Drosophila melanogaster. St. Jules R, et al. **Tissue Cell** 1989;21(5):661–71
[Phenoloxidase in the ontogeny of Drosophila melanogaster] Belokon' EM, et al. **Ontogenez** 1990 May-Jun;21(3):274–9 (Eng. Abstr.) **(Rus)**

GENETICS

Role of gap genes in early Drosophila development. Gaul U, et al. **Adv Genet** 1990;27:239–75 (68 ref.)
Molecular and genetic organization of the antennapedia gene complex of Drosophila melanogaster. Kaufman TC, et al. **Adv Genet** 1990;27:309–62 (137 ref.)
Establishment and maintenance of position-specific expression of the Drosophila homeotic selector gene Deformed. McGinnis W, et al. **Adv Genet** 1990;27:363–402 (71 ref.)
Role of the zerknüllt gene in dorsal-ventral pattern formation in Drosophila. Rushlow C, et al. **Adv Genet** 1990; 27:277–307 (74 ref.)
Genetic control of sex determination in Drosophila. Steinmann-Zwicky M, et al. **Adv Genet** 1990;27:189–237 (137 ref.)
Population genetics and evolution of species related to Drosophila melanogaster. Singh RS. **Annu Rev Genet** 1989; 23:425–53 (125 ref.)
High-resolution analysis of locomotor activity rhythms in disconnected, a visual-system mutant of Drosophila melanogaster. Dowse HB, et al. **Behav Genet** 1989 Jul; 19(4):529–42
Isolation and characterization of feeding behavior mutants in Drosophila melanogaster. Fujishiro N, et al. **Behav Genet** 1990 May;20(3):437–51
Genotype and anesthetic determine mate choice in Drosophila melanogaster. Joachim D, et al. **Behav Genet** 1990 Jan;20(1):73–9
The molecular ethology of the period gene in Drosophila. Kyriacou CP. **Behav Genet** 1990 Mar;20(2):191–211 (90 ref.)
Influence of food on frequency-dependent sexual activity of Drosophila melanogaster. Lichtenberger M, et al. **Behav Genet** 1989 Jul;19(4):575–91
Frequency-dependent mating preferences in female fruitflies? Partridge L. **Behav Genet** 1989 Sep;19(5):725–8
Mating patterns of different Adh genotypes of Drosophila melanogaster. II. Testing rare-male mating advantage. Sanchez Prado JA, et al. **Behav Genet** 1989 Sep; 19(5):701–16
Comments on some criticisms of minority mating advantage experiments in Drosophila. Spiess EB. **Behav Genet** 1989 Sep;19(5):729–33
Male-male interactions and mating kinetics in Drosophila. Wallace B. **Behav Genet** 1990 May;20(3):405–21
Spectral analysis of courtship songs in behavioral mutants of Drosophila melanogaster [published erratum appears in Behav Genet 1990 Mar;20(2):339] Wheeler DA, et al. **Behav Genet** 1989 Jul;19(4):503–28
Novel homeotic genes in Drosophila melanogaster. Weigel D, et al. **Biochem Cell Biol** 1989 Aug;67(8):393–6
Molecular structure of a naturally occurring alcohol dehydrogenase null activity allele in Drosophila melanogaster. Gibson JB, et al. **Biochem Genet** 1989 Dec; 27(11–12):679–88
Positive regulation of the Drosophila melanogaster G6PD gene by an insertion sequence. Ito H, et al. **Biochem Genet** 1989 Aug;27(7–8):379–93
Four tandem defective P elements associated with positive regulation of the Drosophila melanogaster glucose-6-phosphate dehydrogenase gene. Itoh M, et al. **Biochem Genet** 1989 Dec;27(11–12):699–718
The adenosine 2 locus of Drosophila melanogaster: clarification of the map position and eye phenotype of the ade2 mutant. Keizer C, et al. **Biochem Genet** 1989 Jun; 27(5–6):349–53
The fatty acid constitution and ordering state of membranes in dominant temperature-sensitive lethal mutation and wild-type Drosophila melanogaster larvae. Szidonya J, et al. **Biochem Genet** 1990 Jun;28(5–6):233–46
Site-directed mutagenesis of glycine-14 and two "critical" cysteinyl residues in Drosophila alcohol dehydrogenase. Chen Z, et al. **Biochemistry** 1990 Feb 6;29(5):1112–8
Sequence and expression of two regulated transcription units during Drosophila melanogaster development: Deb-A and Deb-B. Vincent WS 3d, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):59–68
Transcriptional regulation of the Drosophila segmentation gene fushi tarazu (ftz) [published erratum appears in Bioessays 1990 Apr;12(4):198] Dearolf CR, et al. **Bioessays** 1990 Mar;12(3):109–13 (41 ref.)
The molecular genetics of early neurogenesis in Drosophila melanogaster. Knust E, et al. **Bioessays** 1989 Oct; 11(4):95–100 (36 ref.)
Molecular genetics of Drosophila vision. Montell C. **Bioessays** 1989 Aug-Sep;11(2-3):43–8 (32 ref.)
Genetics of increased lifespan in Drosophila. Rose MR. **Bioessays** 1989 Nov;11(5):132–5 (30 ref.)
Organizing the Drosophila posterior pattern: why has the fruit fly made life so complicated for itself? Wilkins AS. **Bioessays** 1989 Aug-Sep;11(2-3):67–9 (22 ref.)
The acentriolar state of the Drosophila cell lines 1182. Debec A, et al. **Biol Cell** 1989;67(3):307–11
Partial reversion at the bobbed locus of Drosophila melanogaster. Terracol R, et al. **Biol Cell** 1990;68(1):65–71
Fibrodysplasia ossificans progressiva: a clue from the fly? Kaplan FS, et al. **Calcif Tissue Int** 1990 Aug;47(2):117–25 (27 ref.)
Nucleophilic selectivity of carcinogens as a determinant of enhanced mutational response in excision repair-defective strains in Drosophila: effects of 30 carcinogens. Vogel EW. **Carcinogenesis** 1989 Nov;10(11):2093–106
Addition of telomere-associated HeT DNA sequences "heals" broken chromosome ends in Drosophila. Biessmann H, et al. **Cell** 1990 May 18;61(4):663–73
The Drosophila 74EF early puff contains E74, a complex ecdysone-inducible gene that encodes two ets-related proteins. Burtis KC, et al. **Cell** 1990 Apr 6;61(1):85–99
High-frequency P element loss in Drosophila is homolog dependent. Engels WR, et al. **Cell** 1990 Aug 10; 62(3):515–25
The FLP recombinase of yeast catalyzes site-specific recombination in the Drosophila genome. Golic KG, et al. **Cell** 1989 Nov 3;59(3):499–509
Dominant and recessive alleles of the Drosophila easter gene are point mutations at conserved sites in the serine protease catalytic domain. Jin YS, et al. **Cell** 1990 Mar 9; 60(5):873–81
Drosophila P element transposase recognizes internal P element DNA sequences. Kaufman PD, et al. **Cell** 1989 Oct 20;59(2):359–71
A homeodomain substitution changes the regulatory specificity of the deformed protein in Drosophila embryos. Kuziora MA, et al. **Cell** 1989 Nov 3;59(3):563–71
Drosophila ribosomal RNA genes function as an X-Y pairing site during male meiosis. McKee BD, et al. **Cell** 1990 Apr 6;61(1):61–72
Functional dissection of Ultrabithorax proteins in D. melanogaster. Mann RS, et al. **Cell** 1990 Feb 23; 60(4):597–610
Cytotype control of Drosophila P element transposition: the 66 kd protein is a repressor of transposase activity. Misra S, et al. **Cell** 1990 Jul 27;62(2):269–84
The structure of the Antennapedia homeodomain determined by NMR spectroscopy in solution: comparison with prokaryotic repressors [published erratum appears in Cell 1990 May 4;61(3):548] Qian YQ, et al. **Cell** 1989 Nov 3; 59(3):573–80
Fasciclin III: a novel homophilic adhesion molecule in Drosophila. Snow PM, et al. **Cell** 1989 Oct 20;59(2):313–23
Spatial and temporal patterns of E74 transcription during Drosophila development. Thummel CS, et al. **Cell** 1990 Apr 6;61(1):101–11
Study of contractile and cytoskeletal proteins using Drosophila genetics. Fyrberg E. **Cell Motil Cytoskeleton** 1989;14(1):118–27 (50 ref.)
Synchronized endocytosis studied in the oocyte of a temperature-sensitive mutant of Drosophila melanogaster. Tsuruhara T, et al. **Cell Tissue Res** 1990 Feb;259(2):199–207
Extrachromosomal circular DNAs in Drosophila melanogaster: comparison between embryos and Kc0% cells. Degroote F, et al. **Chromosoma** 1989 Sep;98(3):201–6

Genomic distribution of copia-like transposable elements in somatic tissues and during development of Drosophila melanogaster. Di Franco C, et al. **Chromosoma** 1989 Dec; 98(6):402–10

On the origins of tandemly repeated genes: does histone gene copy number in Drosophila reflect chromosomal location? Fitch DH, et al. **Chromosoma** 1990 Apr;99(2):118–24

Expression of 87A, 87C and 93D heat shock puffs in trisomic (2L and 3L) strains of Drosophila melanogaster: evidence for a functional relation between 93D and 87C. Ghosh AK, et al. **Chromosoma** 1990 Apr;99(1):71–5

Bands, interbands and puffs in native Drosophila polytene chromosomes are recognized by a monoclonal antibody to an epitope in the carboxy-terminal tail of histone H1. Hill RJ, et al. **Chromosoma** 1989 Dec;98(6):411–21

DNA sequence comparison of micropia transposable elements from Drosophila hydei and Drosophila melanogaster. Lankenau DH, et al. **Chromosoma** 1990 Apr; 99(2):111–7

Telomeric sequences derived from laser-microdissected polytene chromosomes. Ponelies N, et al. **Chromosoma** 1989 Nov;98(5):351–7

Copy number and distribution of P and I mobile elements in Drosophila melanogaster populations. Ronsseray S, et al. **Chromosoma** 1989 Sep;98(3):207–14

Two puff-specific proteins bind within the 2.5 kb upstream region of the Drosophila melanogaster Sgs-4 gene. Saumweber H, et al. **Chromosoma** 1990 Apr;99(1):52–60

Position-effect variegation and intercalary heterochromatin: a comparative study. Zhimulev IF, et al. **Chromosoma** 1989 Nov;98(5):378–87

Homologs of vertebrate growth factors in Drosophila melanogaster and other invertebrates. Muskavitch MA, et al. **Curr Top Dev Biol** 1990;24:289–328 (113 ref.)

Roles of Drosophila proto-oncogene and growth factor homologs during development of the fly. Hoffmann FM. **Curr Top Microbiol Immunol** 1989;147:1–29 (129 ref.)

Noncoordinate expression of Drosophila glue genes: Sgs-4 is expressed at many stages and in two different tissues. Barnett SW, et al. **Dev Biol** 1990 Aug;140(2):362–73

Structure, cell-specific expression, and mating-induced regulation of a Drosophila melanogaster male accessory gland gene. DiBenedetto AJ, et al. **Dev Biol** 1990 May; 139(1):134–48

Sensillum development in the absence of cell division: the sensillum phenotype of the Drosophila mutant string. Hartenstein V, et al. **Dev Biol** 1990 Mar;138(1):147–58

Promoter is an important determinant of developmentally regulated puffing at the Sgs-4 locus of Drosophila melanogaster. Korge G, et al. **Dev Biol** 1990 Apr; 138(2):324–37

Molecular genetics of pecanex, a maternal-effect neurogenic locus of Drosophila melanogaster that potentially encodes a large transmembrane protein. LaBonne SG, et al. **Dev Biol** 1989 Nov;136(1):1–16

The Drosophila IMP-E2 gene encodes an apically secreted protein expressed during imaginal disc morphogenesis. Paine-Saunders S, et al. **Dev Biol** 1990 Aug;140(2):337–51

shibire, a neurogenic mutant of Drosophila. Poodry CA. **Dev Biol** 1990 Apr;138(2):464–72

cis-regulatory elements of the Drosophila blastoderm-specific serendipity alpha gene: ectopic activation in the embryonic PNS promoted by the deletion of an upstream region. Schweisguth F, et al. **Dev Biol** 1989 Nov;136(1):181–93

Developmental regulation of the rosy locus in Drosophila melanogaster. Dutton FL Jr, et al. **Dev Biol (N Y 1985)** 1988;5:267–316 (56 ref.)

Genetic alteration of normal aging processes is responsible for extended longevity in Drosophila. Arking R, et al. **Dev Genet** 1990;11(2):141–8

Developmental effects of modifiers of the vg mutant in Drosophila melanogaster. Cavicchi S, et al. **Dev Genet** 1989;10(5):386–92

Different requirements for l(1) giant in two embryonic domains of Drosophila melanogaster. Petschek JP, et al. **Dev Genet** 1990;11(1):88–96

Abnormal meiotic spindles cause a cascade of defects during spermatogenesis in asp males of Drosophila. Casal J, et al. **Development** 1990 Feb;108(2):251–60

A study of shaggy reveals spatial domains of expression of achaete-scute alleles on the thorax of Drosophila. Simpson P, et al. **Development** 1989 May;106(1):57–66

Imaginal disc-autonomous expression of a defect in sensory bristle patterning caused by the lethal(3)ecdysoneless1 (l(3)ecd1) mutation of Drosophila melanogaster. Sliter TJ. **Development** 1989 Jun;106(2):347–54

Self-association of the Drosophila zeste protein is responsible for transvection effects. Bickel S, et al. **EMBO J** 1990 Sep; 9(9):2959–67

Isolation of two tissue-specific Drosophila paired box genes, Pox meso and Pox neuro. Bopp D, et al. **EMBO J** 1989 Nov;8(11):3447–57

An early embryonic product of the gene shaggy encodes a serine/threonine protein kinase related to the CDC28/cdc2+ subfamily. Bourouis M, et al. **EMBO J** 1990 Sep;9(9):2877–84

Molecular analysis of ref(2)P, a Drosophila gene implicated in sigma rhabdovirus multiplication and necessary for male fertility. Dezelee S, et al. **EMBO J** 1989 Nov;8(11):3437–46

A novel transposition system in Drosophila melanogaster depending on the Stalker mobile genetic element. Georgiev PG, et al. **EMBO J** 1990 Jul;9(7):2037–44

Tissue-specific transcriptional enhancers may act in trans on the gene located in the homologous chromosome: the molecular basis of transvection in Drosophila. Geyer PK, et al. **EMBO J** 1990 Jul;9(7):2247–56

The interference of truncated with normal potassium channel subunits leads to abnormal behaviour in transgenic Drosophila melanogaster. Gisselmann G, et al. **EMBO J** 1989 Aug;8(8):2359–64

Molecular analysis of the asense gene, a member of the achaete-scute complex of Drosophila melanogaster, and its novel role in optic lobe development. González F, et al. **EMBO J** 1989 Dec 1;8(12):3553–62

The Drosophila melanogaster fl(2)d gene is needed for the female-specific splicing of Sex-lethal RNA. Granadino B, et al. **EMBO J** 1990 Aug;9(8):2597–602

The PROS-35 gene encodes the 35 kd protein subunit of Drosophila melanogaster proteasome. Haass C, et al. **EMBO J** 1989 Aug;8(8):2373–9

The tramtrack gene encodes a Drosophila finger protein that interacts with the ftz transcriptional regulatory region and shows a novel embryonic expression pattern. Harrison SD, et al. **EMBO J** 1990 Jan;9(1):207–16

The cecropin locus in Drosophila; a compact gene cluster involved in the response to infection. Kylsten P, et al. **EMBO J** 1990 Jan;9(1):217–24

Further studies of the engrailed phenotype in Drosophila. Lawrence PA, et al. **EMBO J** 1982;1(7):827–33

Glutactin, a novel Drosophila basement membrane-related glycoprotein with sequence similarity to serine esterases. Olson PF, et al. **EMBO J** 1990 Apr;9(4):1219–27

Three hormone receptor-like Drosophila genes encode an identical DNA-binding finger. Rothe M, et al. **EMBO J** 1989 Oct;8(10):3087–94

The claret locus in Drosophila encodes products required for eyecolor and for meiotic chromosome segregation. Yamamoto AH, et al. **EMBO J** 1989 Dec 1;8(12):3543–52

5-Azacytidine induces sex chromosome loss and interchange in immature germ cells of Drosophila mei-9 males. Osgood CJ, et al. **Environ Mol Mutagen** 1989;14(3):135–45

Molecular analysis of a cellular decision during embryonic development of Drosophila melanogaster: epidermogenesis or neurogenesis. Campos-Ortega JA, et al. **Eur J Biochem** 1990 May 31;190(1):1–10 (70 ref.)

Distribution patterns of HP1, a heterochromatin-associated nonhistone chromosomal protein of Drosophila. James TC, et al. **Eur J Cell Biol** 1989 Oct;50(1):170–80

20-OH-ecdysone regulates 60 C beta tubulin gene expression in Kc cells and during Drosophila development. Sobrier ML, et al. **Exp Cell Res** 1989 Sep;184(1):241–9

Correlated responses in lines of Drosophila melanogaster selected for different oviposition behaviors. Allemand R, et al. **Experientia** 1989 Dec 1;45(11–12):1147–50

Low allozyme and mtDNA variability in the island endemic species Drosophila sechellia (D. melanogaster complex). Cariou ML, et al. **Experientia** 1990 Jan 15;46(1):101–4

Structure and developmental expression of the D alpha 2 gene encoding a novel nicotinic acetylcholine receptor protein of Drosophila melanogaster. Jonas P, et al. **FEBS Lett** 1990 Aug 20;269(1):264–8

A protein with homology to the C-terminal repeat sequence of Octopus rhodopsin and synaptophysin is a member of a multigene family in Dictyostelium discoideum. Noegel AA, et al. **FEBS Lett** 1990 Jun 18;266(1–2):118–22

Cloning, sequence analysis and chromosome localization of a Drosophila muscarinic acetylcholine receptor. Onai T, et al. **FEBS Lett** 1989 Sep 25;255(2):219–25

Expression of the Drosophila melanogaster metallothionein genes in yeast. Silar P, et al. **FEBS Lett** 1990 Aug 20; 269(1):273–6

Amplification of the phosphorylation site-ATP-binding site cDNA fragment of the Na+,K(+)-ATPase and the Ca2(+)-ATPase of Drosophila melanogaster by polymerase chain reaction. Váradi A, et al. **FEBS Lett** 1989 Dec 4;258(2):203–7

Apis mellifera cytoplasmic elongation factor 1 alpha (EF-1 alpha) is closely related to Drosophila melanogaster EF-1 alpha. Walldorf U, et al. **FEBS Lett** 1990 Jul 16; 267(2):245–9

Early activation of heat shock genes in H2O2-treated Drosophila cells. Courgeon AM, et al. **Free Radic Res Commun** 1990;9(2):147–55

The control of sexual development in Drosophila melanogaster: genetic and molecular analysis of a genetic regulatory hierarchy—a minireview. Belote JM. **Gene** 1989 Oct 15;82(1):161–7 (32 ref.)

Divergence of the nucleotide sequences encoding xanthine dehydrogenase in Calliphora vicina and Drosophila melanogaster. Houde M, et al. **Gene** 1989 Dec 28; 85(2):391–402

P-transposable vectors expressing a constitutive and thermoinducible hsp82-neo fusion gene for Drosophila germline transformation and tissue-culture transfection. Sass H. **Gene** 1990 May 14;89(2):179–86

P-element-mediated enhancer detection: a versatile method to study development in Drosophila. Bellen HJ, et al. **Genes Dev** 1989 Sep;3(9):1288–300

rhomboid, a gene required for dorsoventral axis establishment and peripheral nervous system development in Drosophila melanogaster [published erratum appears in Genes Dev 1990 Apr;4(4):680-1] Bier E, et al. **Genes Dev** 1990 Feb; 4(2):190–203

Searching for pattern and mutation in the Drosophila genome with a P-lacZ vector. Bier E, et al. **Genes Dev** 1989 Sep; 3(9):1273–87

The molecular genetics of the bithorax complex of Drosophila: characterization of the products of the Abdominal-B domain. Celniker SE, et al. **Genes Dev** 1989 Sep;3(9):1424–36

Alternative myosin hinge regions are utilized in a tissue-specific fashion that correlates with muscle contraction speed. Collier VL, et al. **Genes Dev** 1990 Jun; 4(6):885–95

The role of specific enhancer-promoter interactions in the Drosophila Adh promoter switch. Corbin V, et al. **Genes Dev** 1989 Dec;3(12B):2191–20

Analysis of cis-acting requirements of the Rh3 and Rh4 genes reveals a bipartite organization to rhodopsin promoters in Drosophila melanogaster. Fortini ME, et al. **Genes Dev** 1990 Mar;4(3):444–63

A retrotransposon 412 insertion within an exon of the Drosophila melanogaster vermilion gene is spliced from the precursor RNA. Fridell RA, et al. **Genes Dev** 1990 Apr;4(4):559–66

Stimulation of transcription by an Ultrabithorax protein in vitro. Johnson FB, et al. **Genes Dev** 1990 Jun;4(6):1044–52

Spatial and temporal control elements of the Drosophila engrailed gene. Kassis JA. **Genes Dev** 1990 Mar;4(3):433–43

The homeo domain protein rough is expressed in a subset of cells in the developing Drosophila eye where it can specify photoreceptor cell subtype. Kimmel BE, et al. **Genes Dev** 1990 May;4(5):712–27

Ovarian follicle cell enhancers from the Drosophila yolk protein genes: different segments of one enhancer have different cell-type specificities that interact to give normal expression. Logan SK, et al. **Genes Dev** 1990 Apr; 4(4):613–23

cappuccino and spire: two unique maternal-effect loci required for both the anteroposterior and dorsoventral patterns of the Drosophila embryo. Manseau LJ, et al. **Genes Dev** 1989 Sep;3(9):1437–52

Alternative splicing of the sex determination gene transformer-2 is sex-specific in the germ line but not in the soma. Mattox W, et al. **Genes Dev** 1990 May; 4(5):789–805

Regulation of sex-specific RNA splicing at the Drosophila doublesex gene: cis-acting mutations in exon sequences alter sex-specific RNA splicing patterns. Nagoshi RN, et al. **Genes Dev** 1990 Jan;4(1):89–97

Ultrastructural and molecular analyses of homozygous-viable Drosophila melanogaster muscle mutants indicate there is a complex pattern of myosin heavy-chain isoform distribution. O'Donnell PT, et al. **Genes Dev** 1989 Aug; 3(8):1233–46

Cloning and characterization of the segment polarity gene cubitus interruptus Dominant of Drosophila. Orenic TV, et al. **Genes Dev** 1990 Jun;4(6):1053–67

Subcellular localization of transcripts in Drosophila photoreceptor neurons: chaoptic mutants have an aberrant distribution. Pollock JA, et al. **Genes Dev** 1990 May; 4(5):806–21

The E75 ecdysone-inducible gene responsible for the 75B early puff in Drosophila encodes two new members of the steroid receptor superfamily. Segraves WA, et al. **Genes Dev** 1990 Feb;4(2):204–19

A sequence-specific DNA-binding protein that activates fushi tarazu segmentation gene expression. Ueda H, et al. **Genes Dev** 1990 Apr;4(4):624–35

P-element-mediated enhancer detection: an efficient method for isolating and characterizing developmentally regulated genes in Drosophila. Wilson C, et al. **Genes Dev** 1989 Sep; 3(9):1301–13

Characterization of third chromosome dominant alpha-methyl dopa resistant mutants (Tcr) and their interactions with l(2)amd alpha-methyl dopa hypersensitive alleles in Drosophila melanogaster. Bishop CP, et al. **Genet Res** 1989 Oct;54(2):93–9

Somatic reversion of P transposable element insertion mutations in the singed locus of Drosophila melanogaster requiring specific P insertions and a trans- acting factor. Brookfield JF, et al. **Genet Res** 1989 Oct;54(2):101–12

A study of ten families of transposable elements on X chromosomes from a population of Drosophila melanogaster. Charlesworth B, et al. **Genet Res** 1989 Oct; 54(2):113–25

Relationship between chromosome content and nuclear diameter in early spermatids of Drosophila melanogaster. González C, et al. **Genet Res** 1989 Dec;54(3):205–12

'Exceptional sons' from Drosophila melanogaster mothers carrying a balancer X chromosome. Hutter P. **Genet Res** 1990 Jun;55(3):159–64

P-element transposase induces male recombination in Drosophila melanogaster. McCarron MY, et al. **Genet Res** 1989 Oct;54(2):137–41

The occurrence of long ribosomal transcripts homologous to type I insertions in bobbed mutants of Drosophila melanogaster. Makni M, et al. **Genet Res** 1989 Oct; 54(2):127–35

Hybrid dysgenesis-induced response to selection in Drosophila melanogaster. Pignatelli PM, et al. **Genet Res** 1989 Dec;54(3):183–95

Interactions among modifiers of retrotransposon-induced alleles of the white locus of Drosophila melanogaster. Rabinow L, et al. **Genet Res** 1990 Jun;55(3):141–51

Comparison of the regulation of P elements in M and M' strains of Drosophila melanogaster. Ronsseray S, et al. **Genet Res** 1989 Aug;54(1):13–21

Segregation ratios within Segregation Distorter lines of Drosophila melanogaster conform to a beta-binomial distribution. Sharp CB, et al. **Genet Res** 1990 Jun; 55(3):165–70

Interaction of hairless, delta, enhancer of split and notch genes of Drosophila melanogaster as expressed in adult morphology. Sirén M, et al. **Genet Res** 1989 Aug;54(1):23–6

Unmasking frequency-dependent selection in tri-cultures of Drosophila melanogaster. Adell JC, et al. **Genetica** 1989; 79(2):77–83

Analysis of an SD second chromosome from a natural population of Drosophila melanogaster. Cicchetti R, et al. **Genetica** 1988–89;78(3):159–67

Evolution of natural populations in the Drosophila melanogaster sigma system II. Northern and central France. Fleuriet A. **Genetics** 1990;81(1):33–41

Selection for pupation height in Drosophila melanogaster. Garcia-Florez L, et al. **Genetics** 1989;79(3):155–60

Rare male advantage and sex ratio. Lechien J, et al. **Genetica** 1990;80(3):189–94

Fitness components at the octanol dehydrogenase locus in Drosophila melanogaster. Pecsenye K. **Genetica** 1989; 79(2):133–8

Mating patterns of different Adh genotypes of Drosophila melanogaster. I. Differences in mating ability. Sánchez Prado JA, et al. **Genetica** 1988–89;78(3):219–24

Cytogenetic analysis of chromosome region 73AD of Drosophila melanogaster. Belote JM, et al. **Genetics** 1990 Aug;125(4):783–93

Analysis of autosomal dosage compensation involving the alcohol dehydrogenase locus in Drosophila melanogaster. Birchler JA, et al. **Genetics** 1990 Mar;124(3):679–86

Aristapedioid: a gain of function, homeotic mutation in Drosophila melanogaster. Brunk BP, et al. **Genetics** 1990 Jan;124(1):145–56

Intragenic recombination in Drosophila: the rosy locus. Chovnick A. **Genetics** 1989 Dec;123(4):621–4 (44 ref.)

Two tests of Y chromosomal variation in male fertility of Drosophila melanogaster. Clark AG. **Genetics** 1990 Jul; 125(3):527–34

Coordinately and differentially mutable activities of torpedo, the Drosophila melanogaster homolog of the vertebrate EGF receptor gene. Clifford RJ, et al. **Genetics** 1989 Dec; 123(4):771–87

Genetic resistance to viral infection: the molecular cloning of a Drosophila gene that restricts infection by the rhabdovirus sigma. Contamine D, et al. **Genetics** 1989 Nov; 123(3):525–33

Identification of cis-regulatory elements required for larval expression of the Drosophila melanogaster alcohol dehydrogenase gene. Corbin V, et al. **Genetics** 1990 Mar; 124(3):637–46

Developmental expression of the glucose dehydrogenase gene in Drosophila melanogaster. Cox-Foster DL, et al. **Genetics** 1990 Apr;124(4):873–80

Evidence for horizontal transmission of the P transposable element between Drosophila species. Daniels SB, et al. **Genetics** 1990 Feb;124(2):339–55

Genetic localization of foraging (for): a major gene for larval behavior in Drosophila melanogaster. de Belle JS, et al. **Genetics** 1989 Sep;123(1):157–63

The organization and expression of the light gene, a heterochromatic gene of Drosophila melanogaster. Devlin RH, et al. **Genetics** 1990 May;125(1):129–40

The unusual spectrum of mutations induced by hybrid dysgenesis at the Triplo-lethal locus of Drosophila melanogaster. Dorer DR, et al. **Genetics** 1990 Aug; 125(4):795–801

Phenotypic and genetic analysis of Clock, a new circadian rhythm mutant in Drosophila melanogaster. Dushay MS, et al. **Genetics** 1990 Jul;125(3):557–78

The relationship between P elements and male recombination in Drosophila melanogaster. Duttaroy A, et al. **Genetics** 1990 Feb;124(2):317–29

Comparison of in vitro and in vivo activities associated with the G6PD allozyme polymorphism in Drosophila melanogaster. Eanes WF, et al. **Genetics** 1990 Aug; 125(4):845–53

Genetic analysis of the Shaker gene complex of Drosophila melanogaster. Ferrús A, et al. **Genetics** 1990 Jun; 125(2):383–98

The Drosophila zeste locus is nonessential. Goldberg ML, et al. **Genetics** 1989 Sep;123(1):145–55

Examination of a mutable system affecting the components of the segregation distorter meiotic drive system of Drosophila melanogaster. Golic KG. **Genetics** 1990 May; 125(1):51–76

Gross genetic dissection and interaction of the chromosomal region 95E;96F of Drosophila melanogaster. González C, et al. **Genetics** 1989 Oct;123(2):371–7

Negative segregation distortion in the SD system of Drosophila melanogaster: a challenge to the concept of differential sensitivity of Rsp alleles. Hiraizumi Y. **Genetics** 1990 Jul;125(3):515–25

Allozyme-associated heterosis in Drosophila melanogaster. Houle D. **Genetics** 1989 Dec;123(4):789–801

A genetic basis for the inviability of hybrids between sibling species of Drosophila. Hutter P, et al. **Genetics** 1990 Apr; 124(4):909–20

Molecular control of the induction of alcohol dehydrogenase by ethanol in Drosophila melanogaster larvae. Kapoun AM, et al. **Genetics** 1990 Apr;124(4):881–8

Hybrid dysgenesis-induced quantitative variation on the X chromosome of Drosophila melanogaster. Lai CQ, et al. **Genetics** 1990 Mar;124(3):627–36

The abnormal oocyte phenotype is correlated with the presence of blood transposon in Drosophila melanogaster. Lavorgna G, et al. **Genetics** 1989 Nov;123(3):485–94

smellblind: a gene required for Drosophila olfaction. Lilly M, et al. **Genetics** 1990 Feb;124(2):293–302

Detailed structure of the Drosophila melanogaster stellate genes and their transcripts. Livak KJ. **Genetics** 1990 Feb; 124(2):303–16

Transvection in the Ultrabithorax domain of the bithorax complex of Drosophila melanogaster. Mathog D. **Genetics** 1990 Jun;125(2):371–82

Molecular and phenotypic variation of the Zw locus region in Drosophila melanogaster. Miyashita NT. **Genetics** 1990 Jun;125(2):407–19

Genetic evidence that the ovo locus is involved in Drosophila germ line sex determination. Oliver B, et al. **Genetics** 1990 Jul;125(3):535–50

Sequence analysis of N-ethyl-N-nitrosourea-induced vermilion mutations in Drosophila melanogaster. Pastink A, et al. **Genetics** 1989 Sep;123(1):123–9

Interactions of vestigial and scabrous with the Notch locus of Drosophila melanogaster. Rabinow L, et al. **Genetics** 1990 May;125(1):41–50

Physical and functional definition of the Drosophila Notch locus by P element transformation. Ramos RG, et al. **Genetics** 1989 Oct;123(2):337–48

Quantitative effects of P elements on hybrid dysgenesis in Drosophila melanogaster. Rasmusson KE, et al. **Genetics** 1990 Mar;124(3):647–62

Interacting genes that affect microtubule function in Drosophila melanogaster: two classes of mutation revert the failure to complement between haync2 and mutations in tubulin genes. Regan CL, et al. **Genetics** 1990 May; 125(1):77–90

Modified P elements that mimic the P cytotype in Drosophila melanogaster. Robertson HM, et al. **Genetics** 1989 Dec; 123(4):815–24

Genetic analysis of the claret locus of Drosophila melanogaster. Sequeira W, et al. **Genetics** 1989 Nov; 123(3):511–24

Transposable element-induced response to artificial selection in Drosophila melanogaster: molecular analysis of selection lines. Shrimpton AE, et al. **Genetics** 1990 Aug; 125(4):803–11

Repression of P element-mediated hybrid dysgenesis in Drosophila melanogaster. Simmons MJ, et al. **Genetics** 1990 Mar;124(3):663–76

The genetics of the Dras3-Roughened-ecdysoneless chromosomal region (62B3-4 to 62D3-4) in Drosophila melanogaster: analysis of recessive lethal mutations. Sliter TJ, et al. **Genetics** 1989 Oct;123(2):327–36

Dosage requirements of Ultrabithorax and bithoraxoid in the determination of segment identity in Drosophila melanogaster. Smolik-Utlaut SM. **Genetics** 1990 Feb; 124(2):357–66

The P-M and the 23.5 MRF (hobo) systems of hybrid dysgenesis in Drosophila melanogaster are independent of each other. Stamatis N, et al. **Genetics** 1989 Oct; 123(2):379–87

Germ-line and somatic recombination induced by in vitro modified P elements in Drosophila melanogaster. Sved JA, et al. **Genetics** 1990 Feb;124(2):331–7

Genetic analysis of the adenosine3 (Gart) region of the second chromosome of Drosophila melanogaster. Tiong SY, et al. **Genetics** 1990 Apr;124(4):889–97

The effects of chromosome rearrangements on the expression of heterochromatic genes in chromosome 2L of Drosophila melanogaster. Wakimoto BT, et al. **Genetics** 1990 May; 125(1):141–54

Increased selection response in larger populations. I. Selection for wing-tip height in Drosophila melanogaster at three population sizes. Weber KE. **Genetics** 1990 Jul; 125(3):579–84

Increased selection response in larger populations. II. Selection for ethanol vapor resistance in Drosophila melanogaster at two population sizes. Weber KE, et al. **Genetics** 1990 Jul;125(3):585–97

Genetic and molecular analysis of vgU and vgW: two dominant vg alleles associated with gene fusions in Drosophila. Williams JA, et al. **Genetics** 1990 Aug; 125(4):833–44

Genetic analysis of olfactory behavior in Drosophila: a new screen yields the ota mutants. Woodard C, et al. **Genetics** 1989 Oct;123(2):315–26

Tissue-specific expression phenotypes of Hawaiian Drosophila Adh genes in Drosophila melanogaster transformants. Wu CY, et al. **Genetics** 1990 Jul; 125(3):599–610

Molecular and cytogenetic analysis of the heterochromatin-euchromatin junction region of the Drosophila melanogaster X chromosome using cloned DNA sequences. Yamamoto MT, et al. **Genetics** 1990 Aug; 125(4):821–32

The genetic analysis of distributive segregation in Drosophila melanogaster. II. Further genetic analysis of the nod locus. Zhang P, et al. **Genetics** 1990 May;125(1):115–27

Genetic location and biochemical characterization of eye-colour mutants from natural populations of Drosophila melanogaster. Aparisi ML, et al. **Genome** 1990 Apr; 33(2):203–8

Molecular genetic aspects of sex determination in Drosophila melanogaster. Baker BS, et al. **Genome** 1989;31(2):638–45 (35 ref.)

Are there morphologically abnormal early recombination nodules in the Drosophila melanogaster meiotic mutant mei-218? Carpenter AT. **Genome** 1989;31(1):74–80

Identifying a single-copy DNA sequence associated with the expression of a heterochromatic gene, the light locus of Drosophila melanogaster. Devlin RH, et al. **Genome** 1990 Jun;33(3):405–15

Further observations on the nature of radiation-induced chromosomal interchanges recovered from Drosophila sperm. Eberl DF, et al. **Genome** 1989 Oct;32(5):847–55

Adding the heterochromatic YL arm to an X chromosome reduces reproductive fitnesses in Drosophila melanogaster: implications for the evolution of rDNA, heterochromatin, and reproductive isolation. Frankham R. **Genome** 1990 Jun; 33(3):340–7

Mobile genetic elements in Drosophila melanogaster (recent experiments). Georgiev GP, et al. **Genome** 1989;31(2):920–8 (13 ref.)

Relative abundance of various rDNA repeat types in polytene nuclei of Drosophila melanogaster. Kalumuck KE, et al. **Genome** 1990 Apr;33(2):240–6

The 93D heat shock locus of Drosophila melanogaster: modulation by genetic and developmental factors. Lakhotia SC. **Genome** 1989;31(2):677–83 (42 ref.)

Transposable elements and fitness in Drosophila melanogaster. Mackay TF. **Genome** 1989;31(1):284–95 (89 ref.)

Expression of the small heat shock genes during Drosophila development: comparison of the accumulation of hsp23 and hsp27 mRNAs and polypeptides. Pauli D, et al. **Genome** 1989;31(2):671–6

Linkage and segregation distortion in Drosophila melanogaster. Sharp CB, et al. **Genome** 1989 Oct; 32(5):840–6

Inversion polymorphism in Indian natural populations of Drosophila melanogaster. Singh BN, et al. **Genome** 1990 Jun;33(3):311–6

Characterization and zeste reaction of spontaneously reduced transposable elements in Drosophila melanogaster. Lassen C. **Hereditas** 1989;111(2):125–31

Genetics of inbred Drosophila melanogaster. XXI. Re-reversion in the strength of R-elements. Lüning KG. **Hereditas** 1989;111(3):215–21

Genetics of inbred Drosophila melanogaster. XXII. Cytoplasmic influence on recombination. Lüning KG. **Hereditas** 1989;111(3):223–9

Sex-chromosome segregation in inbred Drosophila melanogaster XXY females. I. Influence of closely related Y chromosome derivatives. Palmgren B. **Hereditas** 1990; 112(2):129–40

Mode of inheritance of major genes controlling life span differences between two inbred strains of Drosophila melanogaster. Yonemura I, et al. **Hereditas** 1989; 111(3):207–14

Influence of temperature on the inheritance of adult life span in Drosophila melanogaster. Yonemura I, et al. **Hereditas** 1990;112(2):117–27

Mutation rates in hybrids between sibling species of Drosophila. Coyne JA. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):155–62

Analysis of dominance for competitive ability in Drosophila melanogaster. de Miranda JR, et al. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):221–9

Analysis of competitive interactions in triocultures of Drosophila melanogaster. Hemmat M, et al. **Heredity (Edinburgh)** 1990 Apr;64 (Pt 2):215–22

The biometrical genetics of competitive parameters in Drosophila melanogaster. Hemmat M, et al. **Heredity (Edinburgh)** 1990 Apr;64 (Pt 2):223–31

Allozyme polymorphism at the alpha Gpdh and Adh loci and fitness in Drosophila melanogaster. Izquierdo JI, et al. **Heredity (Edinburgh)** 1989 Dec;63 (Pt 3):343–52

Clock mutations alter developmental timing in Drosophila. Kyriacou CP, et al. **Heredity (Edinburgh)** 1990 Jun;64 (Pt 3):395–401

The number and distribution of esterase 6 alleles in populations of Drosophila melanogaster [published erratum appears in Heredity (Edinburgh) 1990 Apr;64(Pt 2):following 287] Labate J, et al. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):203–8

Effect of larval crowding on adult mating behaviour in Drosophila melanogaster. Ribó G, et al. **Heredity (Edinburgh)** 1989 Oct;63 (Pt 2):195–202

Population dynamics of movable genetic elements in Japanese natural populations of Drosophila melanogaster. I. Microevolution of male recombination determinants in experimental populations. Yamaoka S, et al. **Idengaku Zasshi** 1988 Jun;63(3):227–36

Modeling the regulation of the bithorax complex in Drosophila melanogaster: the phenotypic effects of Ubx, abd-A and Abd-B heterozygotic larvae, and a homozygous Ubx- abd A hybrid gene. Carratalá M, et al. **Int J Dev Biol** 1989 Dec;33(4):455–66

The Drosophila Go alpha-like G protein gene produces multiple transcripts and is expressed in the nervous system

and in ovaries. de Sousa SM, et al. **J Biol Chem** 1989 Nov 5;264(31):18544–51

Two novel annexins from Drosophila melanogaster. Cloning, characterization, and differential expression in development. Johnston PA, et al. **J Biol Chem** 1990 Jul 5;265(19):11382–8

Drosophila proliferating cell nuclear antigen. Structural and functional homology with its mammalian counterpart. Ng L, et al. **J Biol Chem** 1990 Jul 15;265(20):11948–54

Molecular characterization of Drosophila gene encoding G0 alpha subunit homolog. Yoon J, et al. **J Biol Chem** 1989 Nov 5;264(31):18536–43

Fusion of LuxA and LuxB and its expression in E. coli, S. cerevisiae and D. melanogaster. Almashanu S, et al. **J Biolumin Chemilumin** 1990 Apr–Jun;5(2):89–97

Molecular genetics of Drosophila alpha–actinin: mutant alleles disrupt Z disc integrity and muscle insertions. Fyrberg E, et al. **J Cell Biol** 1990 Jun;110(6):1999–2011

The notch gene product is a glycoprotein expressed on the cell surface of both epidermal and neuronal precursor cells during Drosophila development. Johansen KM, et al. **J Cell Biol** 1989 Nov;109(5):2427–40

rough deal: a gene required for proper mitotic segregation in Drosophila. Karess RE, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2951–61

Lanthanum mimicks the trp photoreceptor mutant of Drosophila in the blowfly Calliphora. Hochstrate P. **J Comp Physiol [A]** 1989 Dec;166(2):179–87

Drosophila melanogaster contains a single calmodulin gene. Further structure and expression studies. Doyle KE, et al. **J Mol Biol** 1990 Jun 20;213(4):599–605

Type I (R1) and type II (R2) ribosomal DNA insertions of Drosophila melanogaster are retrotransposable elements closely related to those of Bombyx mori. Jakubczak JL, et al. **J Mol Biol** 1990 Mar 5;212(1):37–52

Structure of the ecdysone–inducible P1 gene of Drosophila melanogaster. Maschat F, et al. **J Mol Biol** 1990 Jul 20; 214(2):359–72

Drosophila GABAergic systems: sequence and expression of glutamic acid decarboxylase. Jackson FR, et al. **J Neurochem** 1990 Mar;54(3):1068–78

A new mutation at the period locus of Drosophila melanogaster with some novel effects on circadian rhythms. Hamblen–Coyle M, et al. **J Neurogenet** 1989 Aug; 5(4):229–56

Reversible inhibition of endocytosis in cultured neurons from the Drosophila temperature–sensitive mutant shibirets1. Masur SK, et al. **J Neurogenet** 1990 Apr;6(3):191–206

The mutations previously designated as flightless–I3, flightless–O2 and standby are members of the W–2 lethal complementation group at the base of the X–chromosome of Drosophila melanogaster. Miklos GL, et al. **J Neurogenet** 1990 Apr;6(3):133–51

Ca2(+)–dependent proteolytic modification of the cAMP–dependent protein kinase in Drosophila wild–type and dunce memory mutants. Müller U, et al. **J Neurogenet** 1989 Nov;6(2):95–114

A voltage–clamp analysis of gene–dosage effects of the Shaker locus on larval muscle potassium currents in Drosophila. Haugland FN, et al. **J Neurosci** 1990 Apr; 10(4):1357–71

The role of the divergent amino and carboxyl domains on the inactivation properties of potassium channels derived from the Shaker gene of Drosophila. Iverson LE, et al. **J Neurosci** 1990 Sep;10(9):2903–16

Circadian fluctuations of period protein immunoreactivity in the CNS and the visual system of Drosophila. Zerr DM, et al. **J Neurosci** 1990 Aug;10(8):2749–62

P–element–mediated enhancer detection allows rapid identification of developmentally regulated genes and cell specific markers in Drosophila. Bellen HJ, et al. **J Physiol (Paris)** 1990;84(1):33–41

Genetic and molecular mechanisms of neurogenesis in Drosophila melanogaster. Campos–Ortega JA, et al. **J Physiol (Paris)** 1990;84(1):1–10 (81 ref.)

Conservation of function of Drosophila melanogaster abl and murine v–abl proteins in transformation of mammalian cells. Holland GD, et al. **J Virol** 1990 May;64(5):2226–35

Tissue–specific expression of rat c–ros–1 gene and partial structural similarity of its predicted products with sev protein of Drosophila melanogaster. Matsushime H, et al. **J Virol** 1990 May;64(5):2117–25

Molecular analysis of duplicated esterase genes in Drosophila melanogaster. Collet C, et al. **Mol Biol Evol** 1990 Jan; 7(1):9–28

Restriction–map variation with the yellow–achaete–scute region in five populations of Drosophila melanogaster. Eanes WF, et al. **Mol Biol Evol** 1989 Sep;6(5):492–502

Restriction–map variation associated with the G6PD polymorphism in natural populations of Drosophila melanogaster. Eanes WF, et al. **Mol Biol Evol** 1989 Jul; 6(4):384–97

Characterization of a Drosophila U snRNP RNA–binding protein. Harper DS, et al. **Mol Biol Rep** 1990;14(2–3):163

The Drosophila Hrb loci: a family of hnRNA binding proteins. Haynes SR, et al. **Mol Biol Rep** 1990;14(2–3):93–4

Studies of an 800–kilobase DNA stretch of the Drosophila X chromosome: comapping of a subclass of scaffold–attached regions with sequences able to replicate autonomously in Saccharomyces cerevisiae. Brun C, et al. **Mol Cell Biol** 1990 Oct;10(10):5455–63

Regulatory elements mediating transcription from the Drosophila melanogaster actin 5C proximal promoter. Chung YT, et al. **Mol Cell Biol** 1990 Jan;10(1):206–16

Multiple, compensatory regulatory elements specify spermatocyte–specific expression of the Drosophila melanogaster hsp26 gene. Glaser RL, et al. **Mol Cell Biol** 1990 Jan;10(1):131–7

Spacer promoters are orientation–dependent activators of pre–rRNA transcription in Drosophila melanogaster. Grimaldi G, et al. **Mol Cell Biol** 1990 Sep;10(9):4667–77

The Drosophila Hrb98DE locus encodes four protein isoforms homologous to the A1 protein of mammalian heterogeneous nuclear ribonucleoprotein complexes. Haynes SR, et al. **Mol Cell Biol** 1990 Jan;10(1):316–23

Structure and expression of the Drosophila melanogaster gene for the U1 small nuclear ribonucleoprotein particle 70K protein. Mancebo R, et al. **Mol Cell Biol** 1990 Jun; 10(6):2492–502

The Adh gene promoters of Drosophila melanogaster and Drosophila orena are functionally conserved and share features of sequence structure and nuclease–protected sites. Moses K, et al. **Mol Cell Biol** 1990 Feb;10(2):539–48

Biochemical characterization of the Drosophila dpp protein, a member of the transforming growth factor beta family of growth factors. Panganiban GE, et al. **Mol Cell Biol** 1990 Jun;10(6):2669–77

Molecular and developmental characterization of the heat shock cognate 4 gene of Drosophila melanogaster. Perkins LA, et al. **Mol Cell Biol** 1990 Jun;10(6):3232–8

Two forms of Drosophila melanogaster Gs alpha are produced by alternate splicing involving an unusual splice site. Quan F, et al. **Mol Cell Biol** 1990 Mar;10(3):910–7

Mutation mapping of the 2B5 ecdysone locus in Drosophila melanogaster reveals a long–distance controlling element. Sampedro J, et al. **Mol Cell Biol** 1989 Aug;9(8):3588–91

Structure and transcription of the Drosophila melanogaster vermilion gene and several mutant alleles. Searles LL, et al. **Mol Cell Biol** 1990 Apr;10(4):1423–31

Sequence and structure of the Drosophila melanogaster ovarian tumor gene and generation of an antibody specific for the ovarian tumor protein. Steinhauer WR, et al. **Mol Cell Biol** 1989 Dec;9(12):5726–32

Molecular characterization of the Drosophila melanogaster urate oxidase gene, an ecdysone–repressible gene expressed only in the malpighian tubules. Wallrath LL, et al. **Mol Cell Biol** 1990 Oct;10(10):5114–27

Closely related DNA sequences specify distinct patterns of developmental expression in Drosophila melanogaster. Xiao H, et al. **Mol Cell Biol** 1990 Jun;10(6):3272–6

Drosophila proliferating cell nuclear antigen (cyclin) gene: structure, expression during development, and specific binding of homeodomain proteins to its 5'–flanking region. Yamaguchi M, et al. **Mol Cell Biol** 1990 Mar;10(3):872–9

Structural analysis of Doc transposable elements associated with mutations at the white and suppressor of forked loci of Drosophila melanogaster. Driver A, et al. **Mol Gen Genet** 1989 Dec;220(1):49–52

The PurR mutation of Drosophila melanogaster confers resistance to purine and 2,6–diaminopurine by elevating adenosine deaminase activity. Dutton FL Jr, et al. **Mol Gen Genet** 1990 Jan;220(2):172–6

Complete reversions of a gypsy retrotransposon–induced cut locus mutation in Drosophila melanogaster involving jockey transposon insertions and flanking gypsy sequence deletions. Flavell AJ, et al. **Mol Gen Genet** 1990 Jan; 220(2):181–5

Novel genes influencing the expression of the yellow locus and mdg4 (gypsy) in Drosophila melanogaster. Georgiev PG, et al. **Mol Gen Genet** 1989 Dec;220(1):121–6

Mitomycin C induces genomic rearrangements involving transposable elements in Drosophila melanogaster. Georgiev PG, et al. **Mol Gen Genet** 1990 Jan;220(2):229–33

Conversion and reciprocal exchange between tandem repeats in Drosophila melanogaster. Hipeau–Jacquotte R, et al. **Mol Gen Genet** 1989 Dec;220(1):140–6

Molecular cloning and transcript mapping of the dihydroorotate dehydrogenase dhod locus of Drosophila melanogaster. Jones WK, et al. **Mol Gen Genet** 1989 Nov; 219(3):397–403

A high level of hybrid dysgenesis in Drosophila: high thermosensitivity, dependence on DNA repair, and incomplete cytotype regulation. Margulies L. **Mol Gen Genet** 1990 Feb;220(3):448–55

A genetic and molecular analysis of P–induced mutations at the glucose–6–phosphate dehydrogenase locus in Drosophila melanogaster. Nero D, et al. **Mol Gen Genet** 1989 Nov;219(3):429–38

Mobile elements and transposition events in the cut locus of Drosophila melanogaster. Tchurikov NA, et al. **Mol Gen Genet** 1989 Oct;219(1–2):241–8

The functional organization of the vestigial locus in Drosophila melanogaster. Williams JA, et al. **Mol Gen Genet** 1990 Mar;221(1):8–16

Homeosis and the interaction of zeste and white in Drosophila. Wu CT, et al. **Mol Gen Genet** 1989 Sep; 218(3):559–64

Rat homologs of the Drosophila dunce gene code for cyclic AMP phosphodiesteraes sensitive to rolipram and RO 20–1724. Henkel–Tigges J, et al. **Mol Pharmacol** 1990 Jan; 37(1):7–10

Analysis of ENU–induced mutations at the Adh locus in Drosophila melanogaster. Fossett NG, et al. **Mutat Res** 1990 Jul;231(1):73–85

Drosophila wing–spot test: improved detectability of genotoxicity of polycyclic aromatic hydrocarbons. Frölich A, et al. **Mutat Res** 1990 Apr;234(2):71–80

Sensitivity to ether anesthesia and to gamma–rays in mutagen–sensitive strains of Drosophila melanogaster. Gamo S, et al. **Mutat Res** 1990 Jan;235(1):9–13

A comparative study of the antimutagenic effects of antioxidants on chemical mutagenesis in Drosophila melanogaster. Goncharova RI, et al. **Mutat Res** 1989 Oct; 214(2):257–65

Training course on Drosophila somatic genotoxicity assays in Mexico. Guzmán Rincón J, et al. **Mutat Res** 1990 Apr; 234(2):107–9

Comparison of dose–response relationships for ethyl methanesulfonate and 1–ethyl–1–nitrosourea in Drosophila melanogaster spermatozoa. Lee WR, et al. **Mutat Res** 1990 Jul;231(1):31–45

High frequency of spontaneous Minute mutations detected in the F1 progeny of interstrain matings between a recombination–defective mei–9L1 and the y w m f/sc8(y+) Y BS; dp strain of Drosophila melanogaster. Miyamoto T. **Mutat Res** 1990 Mar;243(3):207–12

X–ray sensitivity and single–strand DNA break repair in mutagen–sensitive mutants of Drosophila melanogaster. Oliveri DR, et al. **Mutat Res** 1990 Jan;235(1):25–31

I–R hybrid dysgenesis in Drosophila melanogaster: nature and site specificity of induced recessive lethals. Prudhommeau C, et al. **Mutat Res** 1990 Jun;230(2):135–57

Genotoxicity of ziram established through wing, eye and female germ–line mosaic assays and the sex–linked recessive lethal test in Drosophila melanogaster. Tripathy NK, et al. **Mutat Res** 1989 Oct;224(2):161–9

Caprolactam induces genetic alterations in early germ cell stages and in somatic tissue of D. melanogaster. Vogel EW. **Mutat Res** 1989 Nov;224(3):339–42

Evidence for a radioprotective effect of chlorophyllin in Drosophila. Zimmering S, et al. **Mutat Res** 1990 Sep; 245(1):47–9

Requirement of the Drosophila raf homologue for torso function. Ambrosio L, et al. **Nature** 1989 Nov 16; 342(6247):288–91

Specific expression of a silk–encoding gene of Bombyx in the anterior salivary gland of Drosophila. Bello B, et al. **Nature** 1990 Aug 2;346(6283):480–2

Mediation of meiotic and early mitotic chromosome segregation in Drosophila by a protein related to kinesin [see comments] Endow SA, et al. **Nature** 1990 May 3; 345(6270):81–3 Comment in: Nature 1990 May 3;345(6270):22–3.

Isolation of a homoeo box–containing gene from the engrailed region of Drosophila and the spatial distribution of its transcripts. Fjose A, et al. **Nature** 1985 Jan 24–30; 313(6000):284–9

Feedback of the Drosophila period gene product on circadian cycling of its messenger RNA levels. Hardin PE, et al. **Nature** 1990 Feb 8;343(6258):536–40

Sex determination compared in Drosophila and Caenorhabditis. Hodgkin J. **Nature** 1990 Apr 19; 344(6268):721–8 (61 ref.)

Binding of the Drosophila sex–lethal gene product to the alternative splice site of transformer primary transcript. Inoue K, et al. **Nature** 1990 Mar 29;344(6265):461–3

Binding of a Drosophila POU–domain protein to a sequence element regulating gene expression in specific dopaminergic neurons. Johnson WA, et al. **Nature** 1990 Feb 1;343(6257):467–70

Drosophila Krüppel protein is a transcriptional repressor. Licht JD, et al. **Nature** 1990 Jul 5;346(6279):76–9

Complete replacement of mitochondrial DNA in Drosophila. Niki Y, et al. **Nature** 1989 Oct 12;341(6242):551–2

A putative serine/threonine protein kinase encoded by the segment–polarity fused gene of Drosophila. Préat T, et al. **Nature** 1990 Sep 6;347(6288):87–9

Reduced Nm23/Awd protein in tumour metastasis and aberrant Drosophila development. Rosengard AM, et al. **Nature** 1989 Nov 9;342(6246):177–80

Cell biology. Motoring in the spindle [news; comment] Sawin K, et al. **Nature** 1990 May 3;345(6270):22–3 Comment on: Nature 1990 May 3;345(6270):81–3.

Putative protein kinase product of the Drosophila segment–polarity gene zeste–white3. Siegfried E, et al. **Nature** 1990 Jun 28;345(6278):825–9

Sequence homology between a polytene band in the genetic sex chromosomes of Chrysomya rufifacies and the daughterless gene of Drosophila melanogaster. Clausen S, et al. **Naturwissenschaften** 1990 Mar;77(3):137–8

Defective neuroblast commitment in mutants of the achaete–scute complex and adjacent genes of D. melanogaster. Jiménez F, et al. **Neuron** 1990 Jul;5(1):81–9

Mutational and gene dosage analysis of calcium–activated potassium channels in Drosophila: correlation of micro– and macroscopic currents. Komatsu A, et al. **Neuron** 1990 Feb;4(2):313–21

Molecular characterization of the Drosophila trp locus: a putative integral membrane protein required for phototransduction. Montell C, et al. **Neuron** 1989 Apr; 2(4):1313–23

Alterations in the expression and gating of Drosophila sodium channels by mutations in the para gene. O'Dowd DK, et al. **Neuron** 1989 Apr;2(4):1301–11

Antibodies to the period gene product of Drosophila reveal diverse tissue distribution and rhythmic changes in the

visual system. Siwicki KK, et al. **Neuron** 1988 Apr; 1(2):141–50

Sequence of D alpha 2, a novel alpha-like subunit of Drosophila nicotinic acetylcholine receptors. Baumann A, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3640

Sequence, structure and evolution of the gene coding for sn-glycerol-3-phosphate dehydrogenase in Drosophila melanogaster. Bewley GC, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8553–67

The nucleotide sequence of a Drosophila melanogaster enolase gene. Bishop JG, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):191

The conditional inhibition of gene expression in cultured Drosophila cells by antisense RNA. Bunch TA, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9761–82

Sequence of a Drosophila cDNA encoding a ubiquitin gene fusion to a 52-aa ribosomal protein tail. Cabrera y Poch HL, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3994

A member of the steroid hormone receptor gene family is expressed in the 20-OH-ecdysone inducible puff 75B in Drosophila melanogaster. Feigl G, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7167–78

Saturation mutagenesis of the Drosophila tRNA(Arg) gene B-Box intragenic promoter element: requirements for transcription activation and stable complex formation. Gažta BA, et al. **Nucleic Acids Res** 1990 Mar 25; 18(6):1541–8

Transcription at the ecdysone-inducible locus 2B5 in Drosophila. Galcerán J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):539–45

Isolation and characterization of the Drosophila translational elongation factor 2 gene. Grinblat Y, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7303–14

A steroid/thyroid hormone receptor superfamily member in Drosophila melanogaster that shares extensive sequence similarity with a mammalian homologue. Henrich VC, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4143–8

Complete cDNA sequence encoding mitochondrial large ribosomal RNA of Drosophila melanogaster. Kobayashi S, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4592

Modulo, a new maternally expressed Drosophila gene encodes a DNA-binding protein with distinct acidic and basic regions. Krejci E, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8101–15

Interaction of topoisomerase 1 with the transcribed region of the Drosophila HSP 70 heat shock gene. Kroeger PE, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8495–509

Micropia-Dm2, the nucleotide sequence of a rearranged retrotransposon from Drosophila melanogaster. Lankenau DH, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4265–6

Promoter variation in the ribosomal RNA genes in Drosophila melanogaster strains. Mian A, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3795–801

Sequence of a cDNA from the Drosophila melanogaster white gene. Pepling M, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1633

Hsp82-neo transposition vectors to study insertional mutagenesis in Drosophila melanogaster and tissue culture cells. Sass H. **Nucleic Acids Res** 1989 Dec 25;17(24):10508

Cloning regions of the Drosophila genome by microdissection of polytene chromosome DNA and PCR with nonspecific primer. Wesley CS, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):599–603

Copia RNA levels are elevated in dunce mutants and modulated by cAMP. Yun YD, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8313–26

Functional analysis of the long terminal repeats of Drosophila 1731 retrotransposon: promoter function and steroid regulation. Ziarczyk P, et al. **Nucleic Acids Res** 1989 Nov 11;17(21):8631–44

The expression of sequences similar to the human c-erb-A oncogene are regulated in a tissue and stage specific manner in Drosophila melanogaster. Natesan S, et al. **Oncogene** 1989 Nov;4(11):1397–401

DNA binding properties of the purified Antennapedia homeodomain. Affolter M, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4093–7

Potentiation of a polyadenylylation site by a downstream protein-DNA interaction. Dorsett D. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4373–7

Transposition rates of movable genetic elements in Drosophila melanogaster. Harada K, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3248–52

Structural and functional comparisons of the Drosophila virilis and Drosophila melanogaster rough genes. Heberlein U, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5916–20

Twenty Drosophila visual system cDNA clones: one is a homolog of human arrestin. Hyde DR, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):1008–12

"Site-selected" transposon mutagenesis of Drosophila. Kaiser K, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1686–90

Complete sequence of the Drosophila nonmuscle myosin heavy-chain transcript: conserved sequences in the myosin tail and differential splicing in the 5' untranslated sequence. Ketchum AS, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(16):6316–20

Drosophila NK-homeobox genes. Kim Y, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7716–20

Engrailed: a gene controlling compartment and segment formation in Drosophila. Kornberg T. **Proc Natl Acad Sci U S A** 1981 Feb;78(2):1095–9

Comparison of the sevenless genes of Drosophila virilis and Drosophila melanogaster. Michael WM, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5351–3

Characterization and functional expression in mammalian cells of genomic and cDNA clones encoding a Drosophila muscarinic acetylcholine receptor. Shapiro RA, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):9039–43

Resistance to juvenile hormone and an insect growth regulator in Drosophila is associated with an altered cytosolic juvenile hormone-binding protein. Shemshedini L, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2072–6

Fruit flies with additional expression of the elongation factor EF-1 alpha live longer. Shepherd JC, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7520–1

A family of receptor-linked protein tyrosine phosphatases in humans and Drosophila. Streuli M, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8698–702

Amplification-control element ACE-3 is important but not essential for autosomal chorion gene amplification. Swimmer C, et al. **Proc Natl Acad Sci U S A** 1989 Nov; 86(22):8823–7

Short-range genetic structure of Drosophila melanogaster populations in an Afrotropical urban area and its significance. Vouidibio J, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8442–6

Superstructure of the Drosophila ribosomal gene family [published erratum appears in Proc Natl Acad Sci U S A 1990 Aug;87(16):6475] Williams SM, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3156–60

Drosophila homolog of the mammalian jun oncogene is expressed during embryonic development and activates transcription in mammalian cells. Zhang K, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6281–5

Molecular structure, developmental regulation, and evolution of the gene encoding glycerol-3-phosphate dehydrogenase isozymes in Drosophila melanogaster. Bewley GC, et al. **Prog Clin Biol Res** 1990;344:341–74 (60 ref.)

Cloning Drosophila repair genes by transposon tagging. Boyd JB, et al. **Prog Clin Biol Res** 1990;340A:205–11

The rosy locus and xanthine dehydrogenase in Drosophila melanogaster. Chovnick A, et al. **Prog Clin Biol Res** 1990; 344:1–18 (25 ref.)

Molecular genetics of a three-gene cluster in the Amy region of Drosophila. Doane WW, et al. **Prog Clin Biol Res** 1990; 344:19–48 (55 ref.)

Sex determination in Drosophila melanogaster. Slee R, et al. **Q Rev Biol** 1990 Jun;65(2):175–204 (131 ref.)

Mapping the Drosophila genome with yeast artificial chromosomes. Garza D, et al. **Science** 1989 Nov 3; 246(4930):641–6

A 49-kilodalton phosphoprotein in the Drosophila photoreceptor is an arrestin homolog. Yamada T, et al. **Science** 1990 Apr 27;248(4954):483–6

Homeogene expression patterns and chromosomal imprinting. Gaunt SJ, et al. **Trends Genet** 1990 Jul; 6(7):208–12 (43 ref.)

[Genetic variability of the circadian activity pattern of Drosophila in a natural population] Allemand R, et al. **C R Acad Sci [III]** 1989;309(11):477–83 (Eng. Abstr.) **(Fre)**

[Neurological mutants of Drosophila melanogaster] Tanimura T, et al. **Tanpakushitsu Kakusan Koso** 1990 Mar; 35(4 Suppl):434–41 **(Jpn)**

[Structural organization and high transcriptional activity of the mobile genetic element MDG4 in unstable Drosophila melanogaster mutants] Arkhipova IR, et al. **Dokl Akad Nauk SSSR** 1990;310(5):1236–9 **(Rus)**

[Unusual organization of the leader and terminal regions of Drosophila mobile genetic element mdg1] Cherkasova VA, et al. **Dokl Akad Nauk SSSR** 1990;310(6):1485–8 **(Rus)**

[Observed genetic effects in Drosophila after exposure to weightlessness] Filatova LP, et al. **Dokl Akad Nauk SSSR** 1990;310(2):468–70 **(Rus)**

[Induction of super-unstable mutations in Drosophila after P-M-hybrid dysgenesis in strains containing a mobile stalker] Georgiev PG. **Dokl Akad Nauk SSSR** 1990; 310(6):1470–4 **(Rus)**

[Transposition of a new mobile stalker element in the system of prolonged instability in Drosophila melanogaster] Gerasimova TI, et al. **Dokl Akad Nauk SSSR** 1990; 310(6):1474–9 **(Rus)**

[Joint effects of directional and stabilizing selection in Drosophila melanogaster] Imasheva AG, et al. **Dokl Akad Nauk SSSR** 1989 Nov-Dec;309(1):215–9 **(Rus)**

[Neuroproteins p87 and nplmm from Drosophila melanogaster differentially characterize males of inbred lines, differing in the level of sexual and motor activity] Karakin EI, et al. **Dokl Akad Nauk SSSR** 1989; 307(5):1246–9 **(Rus)**

[Inserted mutations induced in the yellow gene of Drosophila melanogaster by microinjection of oncogenic virus DNA into the polar plasma of early embryos] Nabirochkin SD, et al. **Dokl Akad Nauk SSSR** 1989;306(6):1473–5 **(Rus)**

[Changes in the duration of replication of the polytene chromosome region during position effect in Drosophila melanogaster] Bol'shakov VN, et al. **Genetika** 1990 May; 26(5):847–55 (Eng. Abstr.) **(Rus)**

[Localization in the body of the mobile element MDG1 of 2 regions specifically binding with Drosophila nuclear proteins] Cherkasova VA, et al. **Genetika** 1989 Dec; 25(12):2101–10 (Eng. Abstr.) **(Rus)**

[Amplification of subtelomeric sequences in "long" telomers of Drosophila melanogaster polytene chromosomes] Danilevskaia ON, et al. **Genetika** 1990 Apr;26(4):670–8 (Eng. Abstr.) **(Rus)**

[A family of repeated sequences in Drosophila genome with telomeric localization: properties and polymorphism] Danilevskaia ON, et al. **Genetika** 1990 Mar;26(3):474–84 (Eng. Abstr.) **(Rus)**

[The effect of ts-mutation on expression of genes induced by heat shock in Drosophila melanogaster. III. Synthesis of proteins cognate to HSP70] Evgen'ev MB, et al. **Genetika** 1990 Feb;26(2):266–71 (Eng. Abstr.) **(Rus)**

[Detection of new genes participating in the trans-regulation of locus yellow of MDG-4 in Drosophila melanogaster] Georgiev PG, et al. **Genetika** 1989 Aug;25(8):1409–19 (Eng. Abstr.) **(Rus)**

[Transpositional bursts and chromosome rearrangements in unstable lines of Drosophila] Gerasimova TI, et al. **Genetika** 1990 Mar;26(3):399–411 (Eng. Abstr.) **(Rus)**

[Population density as a regulation factor of genetic structure and size of animal populations. Phenotypic variability of reaction to increase in density in Drosophila populations] Grechanyĭ GV, et al. **Genetika** 1989 Sep;25(9):1578–88 (Eng. Abstr.) **(Rus)**

[The effect of directed and stabilizing selection on the population size of Drosophila melanogaster] Imasheva AG, et al. **Genetika** 1989 Aug;25(8):1531–3 (Eng. Abstr.) **(Rus)**

[Mutational variability of enzyme loci in unstable Drosophila melanogaster strains] Ivashchenko NI, et al. **Genetika** 1990 Feb;26(2):257–65 (Eng. Abstr.) **(Rus)**

[The effect of sterol metabolism in a model ecological system Drosophila-yeasts on the crossing-over in Drosophila] Kamilova TA, et al. **Genetika** 1990 Feb;26(2):249–56 (Eng. Abstr.) **(Rus)**

[Genetic instability and transposition of mobile element mdg4 in a mutator strain of Drosophila melanogaster] Kim AI, et al. **Genetika** 1989 Oct;25(10):1747–56 (Eng. Abstr.) **(Rus)**

[Mating behavior in Drosophila melanogaster males heterozygous for the dominant temperature-sensitive lethal mutation] Kulikov AM, et al. **Genetika** 1990 Feb; 26(2):232–40 (Eng. Abstr.) **(Rus)**

[Distribution of Drosophila melanogaster mobile genetic elements along X-chromosome and autosomes] Leĭbovich BA. **Genetika** 1990 May;26(5):817–25 (Eng. Abstr.) **(Rus)**

[Mobile elements in Drosophila natural populations in Azerbaijan] Leĭbovich BA. **Genetika** 1990 Feb;26(2):241–8 (Eng. Abstr.) **(Rus)**

[The effect of high temperature on the frequency of nondisjunction and loss of sex chromosomes in females of Drosophila melanogaster strain I(1)ts403 with a defect in the heat shock protein system] Mamon LA, et al. **Genetika** 1990 Mar;26(3):554–6 (Eng. Abstr.) **(Rus)**

[Sensitivity of larvae of Drosophila melanogaster mutant mus(2)201G1 to various analgesics] Mikheev VS, et al. **Genetika** 1990 May;26(5):856–62 (Eng. Abstr.) **(Rus)**

[Induction of unstable mutations in Drosophila melanogaster by microinjections of DNA from oncogene viruses into the embryonic polar plasm. Part IV. Malignantization of tissues of mutant larvae] Nabirochkin SD, et al. **Genetika** 1989 Jul;25(7):1199–208 (Eng. Abstr.) **(Rus)**

[Characteristics of recombination of heterosis hybrids of Drosophila melanogaster in high temperature conditions] Nekrasova AV, et al. **Genetika** 1990 May;26(5):879–85 (Eng. Abstr.) **(Rus)**

[Characteristics of inserted mutations obtained in the P-M hybrid dysgenesis system in the 9F12-10A7 region of the Drosophila melanogaster X-chromosome] Pokholkova GV, et al. **Genetika** 1989 Oct;25(10):1776–85 (Eng. Abstr.) **(Rus)**

[Isolation of Drosophila melanogaster strain y+ snw sc wa transformed by a series of P-element mediated vectors using microinjections into early embryos] Prokhorova AV, et al. **Genetika** 1989 Nov;25(11):2076–8 (Eng. Abstr.) **(Rus)**

[Formation of interdisks from the P-element DNA material in Drosophila polytene chromosomes] Semeshin VF, et al. **Genetika** 1990 Mar;26(3):448–56 (Eng. Abstr.) **(Rus)**

[Characteristics of structures of Drosophila polytene chromosomes formed by transposable DNA fragments] Semeshin VF, et al. **Genetika** 1989 Nov;25(11):1968–78 (Eng. Abstr.) **(Rus)**

[Intracellular distribution of nucleotide sequences, homologous to mobile dispersed genes] Semin BV. **Genetika** 1989 Jun;25(6):981–92 (Eng. Abstr.) **(Rus)**

[Dynamics of heat shock puffs in highly-inbred strains and heterosis hybrids of Drosophila melanogaster] Shakhbazov VG, et al. **Genetika** 1990 Jan;26(1):43–8 (Eng. Abstr.) **(Rus)**

[Parallel changes in the puffing of polytene chromosomes and bioelectric properties of salivary gland cell nuclei in Drosophila melanogaster after heat shock] Strashniuk VIu, et al. **Genetika** 1990 May;26(5):874–8 (Eng. Abstr.) **(Rus)**

[Mapping of the gene coding for the major protein of the ejaculatory bulb in Drosophila melanogaster] Uspenskiĭ II, et al. **Genetika** 1990 Jan;26(1):138–42 (Eng. Abstr.) **(Rus)**

[Changes in the properties of intercalary heterochromatin in Drosophila melanogaster induced by position effect modifiers] Zhimulev IF, et al. **Genetika** 1989 Sep;

25(9):1589–98 (Eng. Abstr.) (Rus)
[Analysis of the primary structure of DNA sequences flanking MDG1] Kugul'skin VV. **Mol Biol (Mosk)** 1990 Jan–Feb;24(1):134–9 (Eng. Abstr.) (Rus)
[Segregation of the somatic and germ-cell pathways of development in Drosophila] Ivanov AI. **Ontogenez** 1990 Mar–Apr;21(2):153–9 (Eng. Abstr.) (Rus)

GROWTH & DEVELOPMENT

Quantitative analysis of ventral denticular patterns of Drosophila melanogaster larvae and the regulation of the bithorax complex. Carratalá M, et al. **Biosystems** 1989; 23(2–3):139–58; discussion 159
The emergence of order in the Drosophila pupal retina. Cagan RL, et al. **Dev Biol** 1989 Dec;136(2):346–62
Monoclonal antibody probes discriminate early and late mutant defects in development of the Drosophila retina. Renfranz PJ, et al. **Dev Biol** 1989 Dec;136(2):411–29
Stages of cell hair construction in Drosophila. Mitchell HK, et al. **Dev Genet** 1990;11(2):133–40
Development of adult sensilla on the wing and notum of Drosophila melanogaster. Hartenstein V, et al. **Development** 1989 Oct;107(2):389–405
Expression of a Drosophila mRNA is under circadian clock control during pupation. Lorenz LJ, et al. **Development** 1989 Dec;107(4):869–80
Towards establishing a protein database of Drosophila. Santarén JF. **Electrophoresis** 1990 Mar;11(3):254–67
Cuticle secretion in Drosophila wing imaginal discs in vitro: parameters of exposure to 20-hydroxy ecdysone. Johnson SA, et al. **Int J Dev Biol** 1990 Jun;34(2):299–307
Postmetamorphic cell death in the nervous and muscular systems of Drosophila melanogaster. Kimura KI, et al. **J Neurosci** 1990 Feb;10(2):403–1

METABOLISM

Detoxification of cadmium. Ultrastructural study and electron-probe microanalysis of the midgut in a cadmium-resistant strain of Drosophila melanogaster. Lauverjat S, et al. **Biol Met** 1989;2(2):97–107
Substance P-like immunoreactive neurons in the nervous system of Drosophila. Nässel DR, et al. **Brain Res** 1990 Jan 22;507(2):225–33
Collagen type IV of Drosophila is stockpiled in the growing oocyte and differentially located during early stages of embryogenesis. Knibiehler B, et al. **Cell Differ Dev** 1990 May;30(2):147–57
Use of differential DNA-repair host mediated assays to investigate the biotransformation of xenobiotics in Drosophila melanogaster. I. Genotoxic effects of nitrosamines. Knasmuller S, et al. **Chem Biol Interact** 1990; 75(1):17–29
Regulation of Drosophila myosin ATPase activity by phosphorylation of myosin light chains—II. Flightless mfd-fly. Takahashi S, et al. **Comp Biochem Physiol [B]** 1990; 95(1):183–5
Phosphorylated and dephosphorylated myosin light chains of Drosophila fly and larva. Takano-Ohmuro H, et al. **Comp Biochem Physiol [B]** 1990;95(1):171–7
Affinity labelling of a partially purified ecdysteroid receptor with a bromoacetylated 20-OH-ecdysone derivative. Strangmann-Diekmann M, et al. **Eur J Biochem** 1990 Apr 20;189(1):137–43
Evidence for a juvenile hormone receptor involved in protein synthesis in Drosophila melanogaster. Shemshedini L, et al. **J Biol Chem** 1990 Feb 5;265(4):1913–8
Actin-binding proteins from Drosophila embryos: a complex network of interacting proteins detected by F-actin affinity chromatography. Miller KG, et al. **J Cell Biol** 1989 Dec; 109(6 Pt 1):2963–75
Prompt heat-shock and heat-shifted proteins associated with the nuclear matrix-intermediate filament scaffold in Drosophila melanogaster cells. Ornelles DA, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):393–404
Juvenile hormone stimulation of ornithine decarboxylase activity during vitellogenesis in Drosophila melanogaster. Birnbaum MJ, et al. **J Comp Physiol [B]** 1990;160(2):145–51
Developmental regulation of juvenile hormone biosynthesis by the ring gland of Drosophila melanogaster. Richard DS, et al. **J Comp Physiol [B]** 1989;159(4):383–7
Characterization of two classes of opioid binding sites in Drosophila melanogaster head membranes. Santoro C, et al. **J Neurochem** 1990 Jan;54(1):164–70
Immunolocalization of G protein alpha-subunits in the Drosophila CNS. Wolfgang WJ, et al. **J Neurosci** 1990 Mar; 10(3):1014–24
Changes in protein turnover after heat shock are related to accumulation of abnormal proteins in aging Drosophila melanogaster. Niedzwiecki A, et al. **Mech Ageing Dev** 1990 Mar 15;52(2–3):295–304
Allatostatic regulation of juvenile hormone production in vitro by the ring gland of Drosophila melanogaster. Richard DS, et al. **Mol Cell Endocrinol** 1990 Jan 22; 68(2–3):153–61
A synaptic vesicle membrane protein is conserved from mammals to Drosophila. Südhof TC, et al. **Neuron** 1989 May;2(5):1475–81
Reversible import of apocytochrome c into mitochondria. Hakvoort TB, et al. **Proc Natl Acad Sci U S A** 1990 Jul; 87(13):4996–5000

MICROBIOLOGY

Evolution of natural populations in the Drosophila melanogaster sigma virus system I. Languedoc (southern France). Fleuriet A, et al. **Genetica** 1990;81(1):21–31

PARASITOLOGY

Leptopilina heterotoma and L. boulardi: strategies to avoid cellular defense responses of Drosophila melanogaster. Rizki TM, et al. **Exp Parasitol** 1990 May;70(4):466–75

PHYSIOLOGY

Molecular analysis of alpha ecdysone induced 16S complexes in Drosophila Schneider's S3 cells. Haass C, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):314–9
Identification of H1 visual interneuron in Drosophila by [3H]2-deoxyglucose uptake during stationary flight. Bausenwein B, et al. **Brain Res** 1990 Feb 12;509(1):134–6
The genetics of type A potassium channels in Drosophila melanogaster. Mallart A. **Cell Biol Int Rep** 1989 Dec; 13(12):1127–32 (15 ref.)
Localization of vasa, a component of Drosophila polar granules, in maternal-effect mutants that alter embryonic anteroposterior polarity. Hay B, et al. **Development** 1990 Jun;109(2):425–33
A Go-like protein in Drosophila melanogaster and its expression in memory mutants. Guillén A, et al. **EMBO J** 1990 May;9(5):1449–55
Functional dissection of an early Drosophila chorion gene promoter: expression throughout the follicular epithelium is under spatially composite regulation. Tolias PP, et al. **EMBO J** 1990 May;9(5):1457–64
Photoperiodic diapause in Drosophila melanogaster involves a block to the juvenile hormone regulation of ovarian maturation. Saunders DS, et al. **Gen Comp Endocrinol** 1990 Aug;79(2):174–84
Causes and consequences of variation in energy storage in Drosophila melanogaster. Clark AG. **Genetics** 1989 Sep; 123(1):131–44
Hypergravity and ageing in Drosophila melanogaster. 3. Viability. Le Bourg E, et al. **Gerontology** 1989; 35(5–6):253–9
Hypergravity and ageing in Drosophila melanogaster. 2. Longevity. Le Bourg E, et al. **Gerontology** 1989; 35(5–6):244–52
Hypergravity and ageing in Drosophila melanogaster. 1. Fecundity. Lints FA, et al. **Gerontology** 1989; 35(5–6):235–43
Two Drosophila beta tubulin isoforms are not functionally equivalent. Hoyle HD, et al. **J Cell Biol** 1990 Sep; 111(3):1009–26
Photoreceptor-specific efficiencies of beta-carotene, zeaxanthin and lutein for photopigment formation deduced from receptor mutant Drosophila melanogaster. Stark WS, et al. **J Comp Physiol [A]** 1990 Feb;166(4):429–36
A rapid cold-hardening response protecting against cold shock injury in Drosophila melanogaster. Czajka MC, et al. **J Exp Biol** 1990 Jan;148:245–54
Characterization of single non-inactivating potassium channels in primary neuronal cultures of Drosophila. Yamamoto D, et al. **J Exp Biol** 1989 Sep;145:173–84
Physiological properties of the dorsal longitudinal flight muscle and the tergal depressor of the trochanter muscle of Drosophila melanogaster. Peckham M, et al. **J Muscle Res Cell Motil** 1990 Jun;11(3):203–15
Neural control of homosexual courtship in Drosophila melanogaster. Napolitano LM, et al. **J Neurogenet** 1989 Nov;6(2):87–94
Adaptation and fatigue of a mechanosensory neuron in wild-type Drosophila and in memory mutants. Corfas G, et al. **J Neurosci** 1990 Feb;10(2):491–9
Drosophila scaffold-attached regions bind nuclear scaffolds and can function as ARS elements in both budding and fission yeasts. Amati B, et al. **Mol Cell Biol** 1990 Oct; 10(10):5442–54
Complete separation of four potassium currents in Drosophila. Singh S, et al. **Neuron** 1989 Apr;2(4):1325–9
A simple chemosensory response in Drosophila and the isolation of acj mutants in which it is affected. McKenna M, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8118–22
Overexpression of Cu-Zn superoxide dismutase in Drosophila does not affect life-span. Seto NO, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4270–4
[The lifespan and Rubner constant at different temperatures in Drosophila melanogaster] Alekseeva TA, et al. **Izv Akad Nauk SSSR [Biol]** 1990 May-Jun;(3):450–4 (Eng. Abstr.) (Rus)
[Lipid peroxidation and the life span of Drosophila melanogaster] Muradian KhK, et al. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):431–5 (Eng. Abstr.) (Rus)

RADIATION EFFECTS

The interaction between X-rays and transposon mobility in Drosophila: hybrid sterility and chromosome loss. Margulies L, et al. **Mutat Res** 1989 Nov;215(1):1–14
Mutations induced at the white and vermilion loci in Drosophila melanogaster. Pastink A, et al. **Mutat Res** 1990 Jul;231(1):63–71

DROWNING

see related

RESUSCITATION

Near drowning—who's responsible for the aftermath? [editorial] Lally JF. **Del Med J** 1989 Nov;61(11):631–3
Accidental drowning of toddlers in buckets [letter] **JAMA** 1990 Sep 19;264(11):1407
A case of suicide by drowning with hesitation marks on the back. Kurihara K, et al. **Nippon Hoigaku Zasshi** 1989 Dec; 43(6):517–21

BLOOD

The significance of detecting serum fluorine level in the diagnosis of drowning. Chen YC, et al. **Forensic Sci Int** 1990 Jul;46(3):289–94
Serum strontium estimation as a drowning indicator: statistical evidence revised [letter; comment] Hooft PJ. **Med Sci Law** 1989 Oct;29(4):347 Comment on: Med Sci Law 1989 Apr;29(2):162–71.

DIAGNOSIS

Plasmatic levels of atrial natriuretic peptide (ANP) in drowning. A pilot study. Lorente JA, et al. **Forensic Sci Int** 1990 Jan;44(1):69–75
[The expert assessment of the sign of the presence of fluid in the basilar sinus in the diagnosis of drowning] Isaev IuS. **Sud Med Ekspert** 1989 Oct–Dec;32(4):35–6 (Eng. Abstr.) (Rus)
[The use of bacteriological analysis of the blood in the diagnosis of death by drowning] Mishul'skii AM. **Sud Med Ekspert** 1990 Jan–Mar;33(1):26–8 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

Alcohol and drowning: an analysis of contributing factors and a discussion of criteria for case selection. Wintemute GJ, et al. **Accid Anal Prev** 1990 Jun;22(3):291–6
Childhood drowning and near-drowning in the United States. Wintemute GJ. **Am J Dis Child** 1990 Jun; 144(6):663–9 (43 ref.)
Drownings in Minnesota, 1980–85: a population-based study. Hedberg K, et al. **Am J Public Health** 1990 Sep; 80(9):1071–4
Young children who drown in hot tubs, spas, and whirlpools in California: a 26-year survey. Shinaberger CS, et al. **Am J Public Health** 1990 May;80(5):613–4
Drownings in Florida 1977–1986. Calder RA, et al. **J Fla Med Assoc** 1990 Jul;77(7):679–82
Childhood drownings. **J Okla State Med Assoc** 1989 Sep; 82(9):473
From the Centers for Disease Control. Child drownings and near drownings associated with swimming pools—Maricopa County, Arizona, 1988 and 1989. **JAMA** 1990 Aug 8;264(6):680
Accidental toddler drowning in 5-gallon buckets. Jumbelic MI, et al. **JAMA** 1990 Apr 11;263(14):1952–3
Suicide by drowning in Uusimaa province in southern Finland. Auer A. **Med Sci Law** 1990 Apr;30(2):175–9
Child drownings and near drownings associated with swimming pools—Maricopa County, Arizona, 1988 and 1989. **MMWR** 1990 Jul 6;39(26):441–2
A pilot survey of aquatic activities and related consumption of alcohol, with implications for drowning. Howland J, et al. **Public Health Rep** 1990 Jul–Aug;105(4):415–9
Drowning this summer [letter] Schwartz PA. **S Afr Med J** 1989 Dec 2;76(11):633–4
[Epidemiologic profile of accidents in Tunisian children] Rekik A, et al. **Pediatrie** 1989;44(9):721–4 (Eng. Abstr.) (Fre)
[Drownings] Rasmus A, et al. **Wiad Lek** 1989 May 15; 42(10):689–92 (17 ref.) (Eng. Abstr.) (Pol)

MORTALITY

Death resulting from motor vehicle immersions: the nature of the injuries, personal and environmental contributing factors, and potential interventions. Wintemute GJ, et al. **Am J Public Health** 1990 Sep;80(9):1068–70

PATHOLOGY

Histological examination of the temporal bone in medicolegal cases of asphyxia. Ito Y, et al. **Forensic Sci Int** 1990 Feb; 44(2–3):135–42

PHYSIOPATHOLOGY

[The drowned person, hypothermic and insufficiently treated] Bierens JJ, et al. **Ned Tijdschr Geneeskd** 1990 Feb 24; 134(8):374–7 (37 ref.) (Dut)

PREVENTION & CONTROL

Swimming pool owners' opinions of strategies for prevention of drowning. Wintemute GJ, et al. **Pediatrics** 1990 Jan; 85(1):63–9

RADIOGRAPHY

[The thorax of patients in diving accidents. Radiologic study] Le Vot J, et al. **J Radiol** 1989 May;70(5):357–63 (Eng. Abstr.) (Fre)

THERAPY

[A drowning accident of long duration with deep hypothermia and rewarming with extracorporeal circulation. A report of 2 patients] Graf D, et al. **Monatsschr Kinderheilkd** 1989 Jul;137(7):415–8 (Eng. Abstr.) **(Ger)**

DROWSINESS see **SLEEP STAGES**

DRUG ABUSE see **SUBSTANCE ABUSE**

DRUG ABUSE, INTRAVENOUS see **SUBSTANCE ABUSE, INTRAVENOUS**

DRUG ABUSE, PARENTERAL see **SUBSTANCE ABUSE, INTRAVENOUS**

DRUG ABUSE, SPORTS see **DOPING IN SPORTS**

DRUG ABUSE TESTING see **SUBSTANCE ABUSE DETECTION**

DRUG ADDICTION see **SUBSTANCE DEPENDENCE**

DRUG ADMINISTRATION, DERMAL see **ADMINISTRATION, CUTANEOUS**

DRUG ADMINISTRATION, INHALATION see **ADMINISTRATION, INHALATION**

DRUG ADMINISTRATION, INTRANASAL see **ADMINISTRATION, INTRANASAL**

DRUG ADMINISTRATION, ORAL see **ADMINISTRATION, ORAL**

DRUG ADMINISTRATION, RECTAL see **ADMINISTRATION, RECTAL**

DRUG ADMINISTRATION, RESPIRATORY see **ADMINISTRATION, INHALATION**

DRUG ADMINISTRATION ROUTES

see related
DOSAGE FORMS

Iatrogenic bilateral tibial fractures after intraosseous infusion attempts in a 3-month-old infant [see comments] La Fleche FR, et al. **Ann Emerg Med** 1989 Oct;18(10):1099–101 Comment in: Ann Emerg Med 1990 Jun;19(6):731. Comment in: Ann Emerg Med 1990 Jun;19(6):731–2.

The safety of intraosseous infusions: risks of fat and bone marrow emboli to the lungs. Orlowski JP, et al. **Ann Emerg Med** 1989 Oct;18(10):1062–7

Effect of intravenous drug administration mode on drug distribution in a tumor slab: a finite Fourier transform analysis. Subramaniam B, et al. **J Theor Biol** 1990 Mar 8; 143(1):55–76

Direct comparisons of CNS directed therapies are needed. Gash DM. **Neurobiol Aging** 1989 Sep–Oct;10(5):645–6; discussion 648–50

Site-specific drug delivery to CNS: old and new. Hollister LE. **Neurobiol Aging** 1989 Sep–Oct;10(5):631; discussion 648–50

[Efficacy of different estrogens as subject to mode of application] Göretzlehner G. **Zentralbl Gynakol** 1989; 111(16):1093–100 (18 ref.) (Eng. Abstr.) **(Ger)**

DRUG ADMINISTRATION SCHEDULE

The effect of prescribed daily dose frequency on patient medication compliance. Eisen SA, et al. **Arch Intern Med** 1990 Sep;150(9):1881–4

P.r.n. medication [letter] Hagman JO, et al. **Hosp Community Psychiatry** 1990 May;41(5):567

DRUG ADMINISTRATION, TOPICAL see **ADMINISTRATION, TOPICAL**

DRUG ADMINISTRATION, VAGINAL see **ADMINISTRATION, INTRAVAGINAL**

DRUG ADULTERATION see **DRUG CONTAMINATION**

DRUG AEROSOL THERAPY see **ADMINISTRATION, INHALATION**

DRUG AND NARCOTIC CONTROL

Accuracy and time requirements of a bar-code inventory system for controlled substances. Dinklage KC, et al. **Am J Hosp Pharm** 1989 Nov;46(11):2304–7

Over-the-counter antidiarrheal medications used for the self-treatment of acute nonspecific diarrhea. Dukes GE. **Am J Med** 1990 Jun 20;88(6A):24S–26S

Policies on drugs in the new Europe [letter] Griffin TD. **BMJ** 1990 Jul 28;301(6745):238–9

Policies on drugs in the new Europe [letter] Mann RD. **BMJ** 1990 Jul 14;301(6743):122

Radiography of suspected drug smugglers [editorial] Craig JO. **Clin Radiol** 1990 Apr;41(4):228

Scientists are essential for war on drugs [see comments] Johnson R. **FASEB J** 1989 Oct;3(12):2333–4 Comment in: FASEB J 1990 Feb 1;4(2):256–7.

Control of therapeutic drugs [letter] Flack DE. **J Am Vet Med Assoc** 1990 Feb 15;196(4):520–1

Should mind-altering substances be legalized? Alexander LL. **J Natl Med Assoc** 1990 Jan;82(1):15–6

Health for all by the year 2000: alcohol and the Nordic countries. Osterberg E, et al. **J Public Health Policy** 1989 Winter;10(4):499–517

Benzodiazepines: additional effects of the triplicate program. **N Y State J Med** 1990 May;90(5):273–5

Half-hearted war on drugs [editorial] **Nature** 1990 Apr 19; 344(6268):689

The regulation of medicines in South Africa—does it control costs? [editorial] Folb PI, et al. **S Afr Med J** 1989 Dec 16;76(12):643–5

RCVS Disciplinary Committee [letter] **Vet Rec** 1990 Jun 16; 126(24):608–9

Veterinary medicines and the European Parliament [letter] Collins K. **Vet Rec** 1989 Sep 2;125(10):281

WHO Expert Committee on Drug Dependence. Twenty-sixth Report. **WHO Tech Rep Ser** 1989;787:1–32

[Halcion: the overdue truth] Dukes MN. **Ned Tijdschr Geneeskd** 1989 Nov 4;133(44):2155–7 **(Dut)**

[Good clinical practice: necessity or fashion?] Keppel Hesselink JM. **Ned Tijdschr Geneeskd** 1989 Oct 28; 133(43):2108–11 **(Dut)**

[New rules for clinical trials in the USA will introduce new drugs on the market earlier] Bergström L. **Lakartidningen** 1989 Dec 13;86(50):4461 **(Swe)**

ECONOMICS

Economic aspects of illicit drug markets and drug enforcement policies. Wagstaff A. **Br J Addict** 1989 Oct; 84(10):1173–82 (28 ref.)

HISTORY

Historical studies and strategies against alcohol and drug abuse. Baasher T. **Drug Alcohol Depend** 1990 Apr; 25(2):215–9

Brief history of control, prevention and treatment of drug dependence in Japan. Kato M. **Drug Alcohol Depend** 1990 Apr;25(2):213–4

LEGISLATION & JURISPRUDENCE

Steroids and the Controlled Substances Act [editorial] Uzych L. **Biol Psychiatry** 1990 Mar 15;27(6):561–2

Dutch policy on the management of drug-related problems: an Anglo-Dutch debate. **Br J Addict** 1989 Sep;84(9):989–97

The lure of masterstrokes: drug legalization. Farell M, et al. **Br J Addict** 1990 Jan;85(1):5–7

Could Britain inherit the American nightmare? MacGregor S. **Br J Addict** 1990 Jul;85(7):863–72

'Drug scene'—how will it be in the next century? Masur J. **Br J Addict** 1990 Jan;85(1):9–11

The fourth Okey memorial lecture. AIDS and HIV: the challenge for British drug services. Stimson GV. **Br J Addict** 1990 Mar;85(3):329–39; discussion 341–51

Licit and illicit drug policies: a typology. Warner KE, et al. **Br J Addict** 1990 Feb;85(2):255–62

The opiate prescribing debate [letter] Johns A. **Br J Psychiatry** 1990 Jan;156:129

Types of opiate addiction and notification to the home office. London M, et al. **Br J Psychiatry** 1989 Jun;154:835–8

"An improved system for narcotic control in the operating room". Johnson JA, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S83

Medico-legal aspects of treatment and prophylactic care of narcotic drug addicts. Babayan EA. **Drug Alcohol Depend** 1990 Apr;25(2):209–12

The irrelevance of research to government policies on drugs. Bell DS. **Drug Alcohol Depend** 1990 Apr;25(2):221–4 (26 ref.)

Politicians and scientists in the combat against drug abuse. Gunne LM. **Drug Alcohol Depend** 1990 Apr;25(2):241–4

Drug abuse strategies. Martin WR. **Drug Alcohol Depend** 1990 Apr;25(2):115–9

Political implications of scientific research in the field of drug abuse: the case of cannabis. Negrete JC. **Drug Alcohol Depend** 1990 Apr;25(2):225–8

Abuse liability and the regulatory control of therapeutic drugs: untested assumptions. Woods JH. **Drug Alcohol Depend** 1990 Apr;25(2):229–33

The harmfulness tax: a new approach to drug control. Grinspoon L, et al. **Hosp Community Psychiatry** 1990 May; 41(5):483

View from the Nation's Capital. "Off-label" uses of approved drugs: limits on physicians' prescribing behavior. Appler WD, et al. **J Clin Psychopharmacol** 1989 Oct;9(5):368–70

The impact of marijuana decriminalization: an update. Single EW. **J Public Health Policy** 1989 Winter;10(4):456–66

Fatal crash involvement and laws against alcohol-impaired driving. Zador PL, et al. **J Public Health Policy** 1989 Winter;10(4):467–85

The effect of controls on sedatives and hypnotics on their use for suicide. Lester D, et al. **J Toxicol Clin Toxicol** 1989; 27(4–5):299–303

The Dutch soft-drug policy. Dean M. **Lancet** 1989 Oct 21; 2(8669):993–4

Michigan's triplicate prescription program now in effect. Wagenknecht LD. **Mich Med** 1989 Aug;88(8):32–3

Prescribing issues grant report to the Board of Medical Examiners. II. Minnesota Medical Association. **Minn Med** 1990 Aug;73(8):36–42

The role of abuse liability testing in drug control procedures. McClain H Jr, et al. **NIDA Res Monogr** 1989;92:21–42

Implication for research of the 1988 Anti-Drug Abuse Act. Schuster CR. **NIDA Res Monogr** 1989;95:16–22

Legal and ethical matters. Palmer K. **Practitioner** 1989 Apr 8;233(1466):500–1

Drug problems in Amsterdam. Scheele W. **Practitioner** 1989 Nov 8;233(1478):1484–5

Medical quackery in Rhode Island: the perspective of state and federal drug control agencies. Fairfield PB, et al. **R I Med J** 1990 Apr;73(4):145–7

New rules for physicians implement sample drug bill. **Tex Med** 1990 Jun;86(6):58–9

The malpractice claims experience of physicians investigated for inappropriate prescribing. Bloom JD, et al. **West J Med** 1989 Sep;151(3):336–8

[Procedures and findings in the study of "body-packing" in Hannover] Eidam J, et al. **Beitr Gerichtl Med** 1989; 47:193–202 (Eng. Abstr.) **(Ger)**

[Body-packing: detection of incorporated drug packets using ultrasound technics] Freislederer A, et al. **Beitr Gerichtl Med** 1989;47:187–91 (Eng. Abstr.) **(Ger)**

[Physical examinations based on criminal process regulations—exemplified by suspected intracorporeal drug smuggle] Weissauer W, et al. **Chirurg** 1989 Oct;60(10):suppl 160–2 **(Ger)**

[Compatibility of cosmetics and toiletries] Motitschke L. **Z Hautkr** 1989 Dec 15;64(12):1111–7 (Eng. Abstr.) **(Ger)**

[Perfected, professional body-packing] Wehr K, et al. **Z Rechtsmed** 1989;103(1):63–8 (Eng. Abstr.) **(Ger)**

[Analysis of regional trends in narcotic studies between 1980 and 1986] Wehr K, et al. **Z Rechtsmed** 1989;102(8):509–19 (Eng. Abstr.) **(Ger)**

METHODS

CT demonstration of ingested cocaine packets [letter] Vanarthos WJ, et al. **AJR Am J Roentgenol** 1990 Aug; 155(2):419–20

System for verifying use of controlled substances in anesthesia. Satterlee GB. **Am J Hosp Pharm** 1989 Dec; 46(12):2506–8

Drug wars in the United States. Epstein RJ. **BMJ** 1989 Nov 18;299(6710):1275–6

Are we too easy? Do we care? Hosto L. **J Arkansas Med Soc** 1990 Aug;87(3):122

Managing controlled drugs in the office. **Ohio Med** 1990 Apr; 86(4):315

ORGANIZATION & ADMINISTRATION

[Narcotic dependence in the light of the publications of the International Agency for Narcotic Control 1987] Kubalski J, et al. **Pol Tyg Lek** 1988 Dec 19–26;43(51–52):1691–5 (6 ref.) **(Pol)**

DRUG ANTAGONISM

see related
NARCOTIC ANTAGONISTS

[Toxicity experiment on Sargassum, radix Knoxiae, radix Ransul and flos Genkwa against radix Glycyrrhizae in the antagonism of 18 Chinese drugs] Yang ZL, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Feb;14(2):48–50, 64 (Eng. Abstr.) **(Chi)**

[A modified procedure for estimating pA2—equi-concentration effect method] Xu DZ. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):568–71 (Eng. Abstr.) **(Chi)**

DRUG BENEFIT PLANS see **INSURANCE, PHARMACEUTICAL SERVICES**

DRUG CARRIERS

Trapping drug efficiency in liposomes produced by extrusion of freeze-thaw multilamellar vesicles. Aliño SF, et al. **Biochem Soc Trans** 1989 Dec;17(6):1000–1

Influence of lipid characteristics on the encapsulation efficiency and stability of liposomes. Busquets MA, et al. **Biochem Soc Trans** 1989 Dec;17(6):1001–2

Evaluation of protein-N-(2-hydroxypropyl)methacrylamide copolymer conjugates as targetable drug carriers. 1. Binding, pinocytic uptake and intracellular distribution of transferrin and anti-transferrin receptor antibody conjugates. Flanagan PA, et al. **Biochim Biophys Acta** 1989 Oct 13;993(1):83–91

Acid-sensitive dissociation between poly(lysine) and histamine-modified poly(glutamate) as a model for drug-releasing from carriers in endosomes. Shen WC. **Biochim Biophys Acta** 1990 Apr 23;1034(1):122–4

Development of enzymatically degradable protective coatings for use in triggered drug delivery systems: derivatized starch hydrogels. Heller J, et al. **Biomaterials** 1990 Jul;11(5):345–50

Several aspects of red blood cell engineering: potential therapeutic applications. Bailleul C, et al. **Biomed Biochim Acta** 1990;49(2–3):S344–9

6-O-carboxymethyl-chitin (CM-chitin) as a drug carrier.

Watanabe K, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb; 38(2):506–9

Cancer chemotherapy administered by activated carbon particles and liposomes. Hagiwara A, et al. **Crit Rev Oncol Hematol** 1989;9(4):319–50 (210 ref.)

Aerosols for delivery of therapeutic and diagnostic agents to the respiratory tract. Gonda I. **Crit Rev Ther Drug Carrier Syst** 1990;6(4):273–313 (370 ref.)

Polyhydroxybutyrate as a drug carrier. Koosha F, et al. **Crit Rev Ther Drug Carrier Syst** 1989;6(2):117–30 (121 ref.)

Drug delivery systems: 3B. Role of polymers in drug delivery. Ranade VV. **J Clin Pharmacol** 1990 Feb; 30(2):107–20

Optimized procedures for the coupling of proteins to liposomes. Loughrey HC, et al. **J Immunol Methods** 1990 Aug 28;132(1):25–35

Extension of a redox–based chemical delivery system to alpha, beta–unsaturated ketones. Brewster ME, et al. **J Med Chem** 1990 Aug;33(8):2063–5

Antihypertensive activity of redox derivatives of tryptophan. Pop E, et al. **J Med Chem** 1990 Aug;33(8):2216–21

Disposition characteristics of macromolecules in tumor–bearing mice. Takakura Y, et al. **Pharm Res** 1990 Apr;7(4):339–46

Ultrasound–enhanced polymer degradation and release of incorporated substances. Kost J, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7663–6

Targeted liposomes and intracellular delivery of macromolecules. Leserman L, et al. **Prog Clin Biol Res** 1990;343:95–102 (22 ref.)

[Physicochemical and toxicologic aspects of partial glycerides as carrier systems for transdermal systems] Heers W. **Arzneimittelforschung** 1989 Nov;39(11A):1491–4 (8 ref.) (Eng. Abstr.) **(Ger)**

[Micro– and nanoparticles as carrier systems with special consideration of the preparation methods] Bornschein M, et al. **Pharmazie** 1989 Sep;44(9):585–93 (461 ref.) **(Ger)**

[Biopharmaceutical aspects of a chemical approach to drug delivery: macromolecule–drug conjugates] Sezaki H. **Yakugaku Zasshi** 1989 Sep;109(9):611–21 (64 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

Enzymatically activated microencapsulated liposomes can provide pulsatile drug release. Kibat PG, et al. **FASEB J** 1990 May;4(8):2533–9

Activity of the multidrug transporter results in alkalinization of the cytosol: measurement of cytosolic pH by microinjection of a pH–sensitive dye. Thiebaut F, et al. **J Histochem Cytochem** 1990 May;38(5):685–90

Binding of liposomes to human bladder tumor epithelial cell lines: implications for an intravesical drug delivery system for the treatment of bladder cancer. Johnson JW, et al. **Sel Cancer Ther** 1989 Winter;5(4):147–55

DRUG COMBINATIONS

National drug policy in Bangladesh [letter] Joshi A. **J Assoc Physicians India** 1990 May;38(5):382

Statistical modeling of the effects of drug combinations. Plummer JL, et al. **J Pharmacol Methods** 1990 Jul; 23(4):297–309

The present situation and prospects of researches on the pharmacology of compounded Chinese drugs. Zhou CF, et al. **J Tradit Chin Med** 1989 Sep;9(3):220–9 (14 ref.)

Statistical analysis of drug–drug and site–site interactions with isobolograms. Tallarida RJ, et al. **Life Sci** 1989; 45(11):947–61 (23 ref.)

[Intravenous (i.v.) fluid administration systems and incompatibility of injection] Kobo B. **Yakugaku Zasshi** 1990 Jan;110(1):1–15 (48 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Lytic/"DPT" cocktail: time for rational and safe alternatives. Snodgrass WR, et al. **Pediatr Clin North Am** 1989 Oct; 36(5):1285–91 (20 ref.)

ANALYSIS

[P–matrix spectrophotometric determination of 6 components contained in compound reserpine tablets] Xu JP, et al. **Yao Hsueh Hsueh Pao** 1989;24(11):853–8 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

Cardiac dysrhythmias during oral surgery: effect of combined local and general anaesthesia. Rashad A, et al. **Br J Oral Maxillofac Surg** 1990 Apr;28(2):102–4

Trimethoprim–polymyxin B for bacterial conjunctivitis. **Med Lett Drugs Ther** 1990 Jul 27;32(823):71–2

[Meaningful combinations of chemotherapeutic agents] Lutz F, et al. **Tierarztl Prax** 1990 Jun;18(3):209–18 (65 ref.) (Eng. Abstr.) **(Ger)**

DRUG COMBINATIONS, ANTINEOPLASTIC see **ANTINEOPLASTIC AGENTS, COMBINED**

DRUG COMMITTEE see **PHARMACY AND THERAPEUTICS COMMITTEE**

DRUG COMPOUNDING

see related

BIOPHARMACEUTICS

Robotic system for i.v. antineoplastic drug preparation: description and preliminary evaluation under simulated conditions. Cote DD, et al. **Am J Hosp Pharm** 1989 Nov; 46(11):2286–93

Microencapsulation of pancreatic islets in a water insoluble polyacrylate. Sugamori ME, et al. **ASAIO Trans** 1989 Oct–Dec;35(4):791–9

Microencapsulation of human diploid fibroblasts in cationic polyacrylates. Mallabone CL, et al. **Biomaterials** 1989 Aug; 10(6):380–6

Several aspects of red blood cell engineering: potential therapeutic applications. Bailleul C, et al. **Biomed Biochim Acta** 1990;49(2–3):S344–9

Safety comparison of insecticide microencapsulation and investigation of its mechanism. Gao YT, et al. **J Microencapsul** 1989 Oct–Dec;6(4):527–33

The potential use of cyclodextrins in parenteral formulations [see comments] Brewster ME, et al. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):231–40 (57 ref.) Comment in: J Parenter Sci Technol 1990 Mar–Apr;44(2):48–9.

An integration of cultivation and purification in membrane bioreactors: production of monoclonal antibodies and lymphokines by microencapsulated hybridomas. Prokop A. **Mol Biother** 1988;1(2):61–73 (112 ref.)

[Microcapsules with modulable properties made with cross–linked proteins and polysaccharides] Lévy MC, et al. **Therapie** 1989 Sep–Oct;44(5):365–9 (Eng. Abstr.) **(Fre)**

ECONOMICS

"Disinformation" from pharmaceutical company representatives [letter] **Can Med Assoc J** 1990 Sep 1; 143(5):370

METHODS

Enzymatically activated microencapsulated liposomes can provide pulsatile drug release. Kibat PG, et al. **FASEB J** 1990 May;4(8):2533–9

Characterization of L–histidine ammonia–lyase immobilized by microencapsulation in artificial cells: preparation, kinetics, stability, and in vitro depletion of histidine. Khanna R, et al. **Int J Artif Organs** 1990 Mar;13(3):189–95

Unforeseen effect of thyroxine binding globulin when using the microencapsulated antibody method to determine free thyroxine (FT4): misleading results due to circulating unsaturated thyroxine binding globulin. Hashimoto T, et al. **J Clin Chem Clin Biochem** 1990 Mar;28(3):175–9

Encapsulation of water–soluble drugs by a modified solvent evaporation method. I. Effect of process and formulation variables on drug entrapment. Alex R, et al. **J Microencapsul** 1990 Jul–Sep;7(3):347–55

Phase separation modulation and aggregation prevention: mechanism of the non–solvent addition method in the presence and absence of polyisobutylene as an additive. Donbrow M, et al. **J Microencapsul** 1990 Jan–Mar;7(1):1–15

Biodegradable poly(lactic acid) and poly(lactide–co–glycolide) microcapsules: problems associated with preparative techniques and release properties. Jalil R, et al. **J Microencapsul** 1990 Jul–Sep; 7(3):297–325 (133 ref.)

Microencapsulation using poly(L–lactic acid). I: Microcapsule properties affected by the preparative technique. Jalil R, et al. **J Microencapsul** 1989 Oct–Dec; 6(4):473–84

Microencapsulation using poly (L–lactic acid) II: Preparative variables affecting microcapsule properties. Jalil R, et al. **J Microencapsul** 1990 Jan–Mar;7(1):25–39

Microencapsulation using poly(DL–lactic acid). I: Effect of preparative variables on the microcapsule characteristics and release kinetics. Jalil R, et al. **J Microencapsul** 1990 Apr–Jun;7(2):229–44

Microencapsulation using poly (L–lactic acid) III: Effect of polymer molecular weight on the microcapsule properties. Jalil R, et al. **J Microencapsul** 1990 Jan–Mar;7(1):41–52

Microencapsulation using poly(DL–lactic acid). II: Effect of polymer molecular weight on the microcapsule properties. Jalil R, et al. **J Microencapsul** 1990 Apr–Jun;7(2):245–54

Microencapsulation using poly(L–lactic acid) IV: Release properties of microcapsules containing phenobarbitone. Jalil R, et al. **J Microencapsul** 1990 Jan–Mar;7(1):53–66

Preparation and in vitro evaluation of rosin microcapsules: solvent evaporation technique. Sheorey DS, et al. **J Microencapsul** 1990 Apr–Jun;7(2):261–4

Controlled release captopril microcapsules: effect of ethyl cellulose viscosity grade on the in vitro dissolution from microcapsules and tableted microcapsules. Singh J, et al. **J Microencapsul** 1990 Jan–Mar;7(1):67–76

STANDARDS

The Food and Drug Administration Commissioner [editorial] Somberg JC. **J Clin Pharmacol** 1990 Jul;30(7):577

Vancomycin vs tobramycin elution from polymethylmethacrylate: an in vitro study. Lawson KJ, et al. **Orthopedics** 1990 May;13(5):521–4

VETERINARY

Manufacturing of drugs: interpretation of federal regulations lies in eye of beholder [news] Raef TA. **J Am Vet Med Assoc** 1990 May 1;196(9):1360–1

DRUG CONTAINERS AND CLOSURES see **DRUG PACKAGING**

DRUG CONTAMINATION

Methylsuccinate and mesaconate in urine of patients treated with sodium benzoate. Maeda E, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Dec;31(6):721–6

The influence of product factors on the migration in soft polyvinyl chloride infusion fluid bags. Smistad G, et al. **Acta Pharm Nord** 1989;1(6):313–20

Drug diversion and counterfeiting [editorial] [see comments] Veiga RV, et al. **Am Fam Physician** 1989 Oct;40(4):81, 84 Comment in: Am Fam Physician 1990 Jun;41(6):1676, 1681.

Selected ultratrace elements in total parenteral nutrition solutions. Berner YN, et al. **Am J Clin Nutr** 1989 Nov; 50(5):1079–83

Potential bacterial contamination in fluorescein–anesthetic solutions. Duffner LR, et al. **Am J Ophthalmol** 1990 Aug 15;110(2):199–202

The sterility of lubricant jelly used on tracheal tubes [letter] Broome IJ, et al. **Anaesthesia** 1990 Feb;45(2):177

Contamination of a hospital oxygen supply. Gilmour IJ, et al. **Anesth Analg** 1990 Sep;71(3):302–4

Survival of Mycoplasma hyorhinis in trypsin solutions. Polak–Vogelzang AA, et al. **Biologicals** 1990 Apr; 18(2):97–101

Specific removal of endotoxin from protein solutions by immobilized histidine. Matsumae H, et al. **Biotechnol Appl Biochem** 1990 Apr;12(2):129–40

Aflatoxins and heroin. Hendrickse RG, et al. **BMJ** 1989 Aug 19;299(6697):492–3

Bacterial contamination of contrast media stored after opening. Lisle D, et al. **Br J Radiol** 1990 Jul;63(751):532–4

Environmental exposure to preformed nitroso compounds. Tricker AR, et al. **Cancer Surv** 1989;8(2):251–72 (104 ref.)

Rational limits for drug impurities. Hubert BB. **Drug Saf** 1990; 5 Suppl 1:88–94 (18 ref.)

Attempts to characterize bovine viral diarrhea virus isolated from cattle after immunization with a contaminated vaccine. Kreeft HA, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):63–5

Adulterants and substitutes. Schauben JL. **Emerg Med Clin North Am** 1990 Aug;8(3):595–611 (102 ref.)

Study on the innocuity of the hypophyseal human growth hormone. Simionescu L, et al. **Endocrinologie** 1989 Jul–Sep; 27(3):133–47 (121 ref.)

Characterisation and virus safety of alpha 1–proteinase inhibitor. Coan MH, et al. **Eur Respir J Suppl** 1990 Mar; 9:35s–38s

Particulate matter test in small volume parenterals: critical aspects in sampling methodology. Pavanetto F, et al. **Farmaco** 1989 Jun;44(6):633–43

'DNA' as contaminants in antibiotics and its capacity to transform bacteria to drug resistance. Chakrabarty AN, et al. **Indian J Exp Biol** 1990 Jan;28(1):58–62

Lack of evidence for seroconversion to human immunodeficiency virus in recipients of anti–D immunoglobulin containing HIV antibody. Babu PG, et al. **Indian J Med Res** 1990 Mar;91:81–3

Bacterial contamination of reconstituted oral rehydration solution. Nagarajan L, et al. **Indian Pediatr** 1990 Jan; 27(1):21–6

Attempts to detect evidence of scrapie–associated protein in bovine tissue–derived products. DiMartino A. **J Am Vet Med Assoc** 1990 May 15;196(10):1685–6

Kinetics of bacterial growth in simple intravenous solutions and admixtures. Akpan UE, et al. **J Clin Pharm Ther** 1989 Oct;14(5):393–401

Long–term analysis of sterility testing of immunobiological preparations. Winkler D, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(3):317–22

Determination of the particulate content of LVP using different test methods. Health Industry Manufacturer's Association. **J Parenter Sci Technol** 1989 Sep–Oct; 43(5):200–3

Resolving LAL Test interferences. Cooper JF. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):13–5

Validation technique for the filling operation of oxygen sensitive injectables. De Rudder D, et al. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):225–6

Variability in the LAL test. McCullough KZ. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):19–21

Understanding and setting endotoxin limits. Weary ME. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):16–8

Microbial growth in small–volume pharmaceuticals. Whyte W, et al. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):208–12

The purity of cholestyramine resin [letter] Goldstein MR. **JAMA** 1989 Dec 8;262(22):3127–8

Eosinophilia–myalgia syndrome associated with exposure to tryptophan from a single manufacturer. Slutsker L, et al. **JAMA** 1990 Jul 11;264(2):213–7

Bacitracin–associated peptides and contaminated L–tryptophan [letter] Barnhart ER, et al. **Lancet** 1990 Sep 22;336(8717):742

Hepatitis C virus transmission by monoclonal antibody purified factor VIII concentrate [letter] Berntorp E, et al. **Lancet** 1990 Jun 23;335(8704):1531–2

Haemophilic AIDS patient loses claim in Australia [news] Brahams D. **Lancet** 1990 Jul 28;336(8709):238–9

Septic shock following infected Haemaccel [letter] Hicks P, et al. **N Z Med J** 1990 Jul 11;103(893):328

Contamination of clandestinely prepared drugs with synthetic by-products. Soine WH. **NIDA Res Monogr** 1989;95:44–50 (33 ref.)

Effect of technological factors on concentration of halogen derivative pesticides in some vegetable drugs. Pluta J. **Pharmazie** 1990 Apr;45(4):273–5

Evaluation of the risk of hepatitis from clotting factor concentrates. Fricke WA. **Prog Clin Biol Res** 1990; 324:161–6 (14 ref.)

Bovine albumin–like protein in commercial human albumin for clinical use. Murozuka T, et al. **Vox Sang** 1990;59(1):1–5

[Microbial contamination of raw materials of plant origin: incidence in cosmetic preparations] Dony J, et al. **J Pharm Belg** 1989 Nov–Dec;44(6):411–9 (Eng. Abstr.) (Fre)

[Particulate contamination of infusion solutions and drug additives in the framework of long–term intensive therapy. 2. An animal model] Walpot H, et al. **Anaesthesist** 1989 Nov;38(11):617–21 (Eng. Abstr.) (Ger)

[Particulate contamination of infusion solutions and drug additives within the scope of long–term intensive therapy. 1. Energy dispersion electron images in the scanning electron microscope–REM/EDX] Walpot H, et al. **Anaesthesist** 1989 Oct;38(10):544–8 (Eng. Abstr.) (Ger)

[The problems of the estimation of bacterial contamination in viral drinking water vaccines for poultry] Jungbäck C. **Berl Munch Tierarztl Wochenschr** 1990 Mar 1;103(3):81–3 (Eng. Abstr.) (Ger)

[Acute keratitis and contamination of contact lens care systems with Bacillus cereus] van Setten GB, et al. **Klin Monatsbl Augenheilkd** 1989 Jul;195(1):28–31 (Eng. Abstr.) (Ger)

[Residues of lindane and DDT in drugs from wild medicinal plants in a cultivated forest. 2.] Benecke R, et al. **Pharmazie** 1989 Aug;44(8):562–4 (Eng. Abstr.) (Ger)

[Effect of various microorganisms on the activity of levorin] Ivanova LN, et al. **Antibiot Khimioter** 1989 Nov; 34(11):819–22 (Eng. Abstr.) (Rus)

[Gas–chromatographic analysis of herbicide residues in medicinal raw materials] Lopatykhin Elu, et al. **Gig Sanit** 1989 Jun;(6):47–9 (Rus)

[Contamination of antiseptics and disinfectants with microorganisms in urologic clinics and the evaluation of the degree of microbial sensitivity to these drugs] Zueva LP, et al. **Gig Sanit** 1989 Sep;(9):81–2 (Rus)

[Desalted water—a source of contamination of non–injectable drugs with microorganisms] Vasilevskaia IA, et al. **Mikrobiol Zh** 1984 Jul–Aug;46(4):7–10 (Eng. Abstr.) (Rus)

[Lyell's syndrome induced by heroin contaminants (letter)] Llibre LM, et al. **Med Clin (Barc)** 1990 May 26;94(20):799 (Spa)

LEGISLATION & JURISPRUDENCE

Particle counting errors [letter; comment] Fry EM. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):199 Comment on: J Parenter Sci Technol 1989 Mar–Apr;43(2):59.

Confidential documents in HIV/haemophilia litigation. Brahams D. **Lancet** 1990 Sep 29;336(8718):805

PREVENTION & CONTROL

Stopper fragments: a technique for reducing their occurrence [letter] Morparia HK, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):659–60

Low risk for hepatitis C in hemophiliacs given a high–purity, pasteurized factor VIII concentrate. International Study Group. Mannucci PM, et al. **Ann Intern Med** 1990 Jul 1; 113(1):27–32

Testing the waters [editorial] Benn R. **Med J Aust** 1990 Jun 18;152(12):618

Morphine syringes—a question of sterility [letter] Bullen D. **N Z Med J** 1990 Feb 14;103(883):51

Strategies for the validation of viral inactivation in biologic products. Aronson DL. **Prog Clin Biol Res** 1990;324:137–49 (19 ref.)

A review of clinical studies evaluating the efficacy of HIV inactivation methods. Lawrence DN. **Prog Clin Biol Res** 1990;324:151–60

[Particle load in intensive therapy. Possible solutions using a multi–lumen catheter and Intrapur filter] Schröder F. **Infusionstherapie** 1990 Jun;17(3):149–54 (Eng. Abstr.) (Ger)

[The quality of our drugs: aluminum in plasma components] Forth W. **Klin Wochenschr** 1989 Dec 15;67(24):1219–20 (12 ref.) (Ger)

[Several aspects of handling vaccines in vaccination practice] Thilo W. **Z Arztl Fortbild (Jena)** 1990;84(8):393–5 (Ger)

[Study of biologically active admixtures in protein preparations by the methods of medical microanalysis] Migunov VN, et al. **Gematol Transfuziol** 1990 May; 35(5):34–5 (Rus)

[Effect of drug production technology on the transition of cesium–137 to liquid drug form] Antonova VA, et al. **Gig Sanit** 1989 Jul;(7):87–8 (Rus)

[Medicinal plants as objects of hygienic monitoring] Listov SA. **Gig Sanit** 1989 Dec;(12):89–90 (Rus)

STATISTICS & NUMERICAL DATA

Disinfectants prepared in a hospital pharmacy—assessment of their microbiological purity and antimicrobial effectiveness. Nkibiasala SM, et al. **J Clin Pharm Ther** 1989 Dec;14(6):457–64

DRUG DELIVERY SYSTEMS, IMPLANTABLE see **INFUSION PUMPS, IMPLANTABLE**

DRUG DEPENDENCE see **SUBSTANCE DEPENDENCE**

DRUG DESIGN

see related
DESIGNER DRUGS

Racemates and enantiomers in drug research and development. Proceedings of a symposium. Copenhagen, Denmark, November 9–10, 1989. **Acta Pharm Nord** 1990; 2(3):131–229

The development of chiral drugs. Campbell DB. **Acta Pharm Nord** 1990;2(3):217–26 (28 ref.)

Thymidylate synthase: a target for anticancer drug design. Harrap KR, et al. **Adv Enzyme Regul** 1989;29:161–79

Future directions for antifolate drug development. Knight CB, et al. **Adv Enzyme Regul** 1989;29:3–12 (35 ref.)

Biomedical science and the third world. Under the volcano. Trypanothione reductase. Murgolo NJ, et al. **Ann N Y Acad Sci** 1989;569:193–200 (39 ref.)

Modeling inhibitors in the active site of aspartate aminotransferase. Taylor JE, et al. **Ann N Y Acad Sci** 1990; 585:58–67 (25 ref.)

DNA–intercalating ligands as anti–cancer drugs: prospects for future design. Denny WA. **Anticancer Drug Des** 1989 Dec;4(4):241–63 (159 ref.)

Protein kinase C—a novel target for rational anti–cancer drug design? Gescher A, et al. **Anticancer Drug Des** 1989 Aug; 4(2):93–105 (108 ref.)

Applying engineering principles to the design of cellular biology. Feldmann RJ. **Arzneimittelforschung** 1989 Aug; 39(8A):1020–2; discussion 1023

Protein crystallography and drug design. Hol WG. **Arzneimittelforschung** 1989 Aug;39(8A):1016–8; discussion 1019 (42 ref.)

NMR methods for elucidating macromolecule–ligand interactions: an approach to drug design. Proceedings of the Fourth Biochemical Pharmacology Symposium. New Haven, CT, 27–29 July 1989. **Biochem Pharmacol** 1990 Jul 1;40(1):1–175

NMR methods for determining the structures of enzyme/inhibitor complexes as an aid in drug design. Fesik SW, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):161–7 (21 ref.)

An overview of recent progress in ligand–receptor research based on nuclear magnetic resonance spectroscopy. Handschumacher RE, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):3–5

Clinical oncology and chemical thermodynamics. Seitz DE, et al. **Cancer Invest** 1990;8(2):233–5

Has chemotherapy anywhere to go? Connors TA. **Cancer Surv** 1989;8(3):693–705 (23 ref.)

Problems in the design of anticancer agents. D'Incalci M, et al. **Cancer Surv** 1989;8(3):535–55 (53 ref.)

Neural networks applied to pharmaceutical problems. I. Method and application to decision making. Aoyama T, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2258–60

Discovery and development of new antimicrobial agents. Gootz TD. **Clin Microbiol Rev** 1990 Jan;3(1):13–31 (183 ref.)

Olga—oligonucleotide primer design program for the Atari ST. Bridges CG. **Comput Appl Biosci** 1990 Apr;6(2):124–5

Research challenges, new drug development, preclinical and clinical trials in the ageing population. Abernethy DR. **Drug Saf** 1990;5 Suppl 1:71–4 (10 ref.)

Safety considerations in product development. Hayes AH Jr. **Drug Saf** 1990;5 Suppl 1:24–6

Safety by design. Jack D. **Drug Saf** 1990;5 Suppl 1:4–23 (32 ref.)

Nitrosoureas from chemist to physician: classification and recent approaches to drug design. McCormick JE, et al. **Eur J Cancer** 1990 Mar;26(3):207–21 (84 ref.)

Study of the release process of drugs: suppositories of paracetamol. Lauroba J, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Mar;28(3):118–22

A novel approach to molecular similarity. Cooper DL, et al. **J Comput Aided Mol Des** 1989 Sep;3(3):253–9 (19 ref.)

ALADDIN: an integrated tool for computer–assisted molecular design and pharmacophore recognition from geometric, steric, and substructure searching of three–dimensional molecular structures. Van Drie JH, et al. **J Comput Aided Mol Des** 1989 Sep;3(3):225–51

Angiotensin–converting enzyme inhibitors. 9. Novel [[N–(1–carboxy–3–phenylpropyl)amino]acyl]glycine derivatives with diuretic activity. Barton JN, et al. **J Med Chem** 1990 Jun;33(6):1600–6

Cardiotonic agents. 6. Histamine analogues as potential cardiovascular selective H2 agonists. Lampe JW, et al. **J Med Chem** 1990 Jun;33(6):1688–97

Angiotensin converting enzyme inhibitors. 10. Aryl sulfonamide substituted N–[1–carboxy–3–phenylpropyl]–L–alanyl–L–proline derivatives as novel antihypertensives. Mencel JJ, et al. **J Med Chem** 1990 Jun;33(6):1606–15

Design of peptidomimetic delta opioid receptor antagonists using the message–address concept. Portoghese PS, et al. **J Med Chem** 1990 Jun;33(6):1714–20

Multidrug resistance associated with altered topoisomerase II activity—topoisomerases II as targets for rational drug design [comment] Morrow CS, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):638–9 Comment on: J Natl Cancer Inst 1990 Apr 18;82(8):662–7.

A phased approach to drug development. Fromson JM. **J Pharmacokinet Biopharm** 1989 Aug;17(4):509–21; discussion 521–3

Antibody–directed drug discovery. Wolff ME, et al. **Nature** 1990 May 24;345(6273):365–6

Development of immunotherapeutic strategies for the treatment of malignant neoplasia. Talmadge JE. **Pathol Immunopathol Res** 1989;8(5–6):250–75 (168 ref.)

Formulation and dosage form design in drug–induced topical irritation of the gastrointestinal tract. Fara JW, et al. **Pharm Res** 1990 Jun;7(6):616–20

Abstracts of papers. Peptides as new leads in drug design. Tilburg (The Netherlands), 8 June 1990. **Pharm Weekbl [Sci]** 1990 Jun 22;12(3 Suppl E):E1–8

Searching for pharmacophores in large coordinate data bases and its use in drug design. Sheridan RP, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8165–9

Role of pharmacogenetics in drug development. Balant LP, et al. **Psychopharmacol Ser** 1989;7:211–6 (15 ref.)

Rational drugs. Erickson D. **Sci Am** 1990 Jan;262(1):102, 104

Venture capitalists push designer drug start–ups [news] Gibbons A. **Science** 1990 Aug 17;249(4970):733–4

RU 486 development [letter; comment] Philibert D, et al. **Science** 1990 Feb 9;247(4943):622 Comment on: Science 1989 Nov 24;246(4933):994.

The reign of trial and error draws to a close [news] Waldrop MM. **Science** 1990 Jan 5;247(4938):28–9

Drug design based on biosynthetic studies: synthesis, biological activity, and kinetics of new inhibitors of 2,3–oxidosqualene cyclase and squalene epoxidase. Cattel L, et al. **Steroids** 1989 Mar–May;53(3–5):363–91

Designing antisense oligonucleotides as pharmaceutical agents. Cohen JS. **Trends Pharmacol Sci** 1989 Nov; 10(11):435–7

Nobel prize recognizes industrial scientists' contribution to pharmacology and medicine. Gerskowitch VP, et al. **Trends Pharmacol Sci** 1988 Dec;9(12):435–7

The excitement of a suspense story, the beauty of a poem: the work of Hitchings and Elion. Giner–Sorolla A. **Trends Pharmacol Sci** 1988 Dec;9(12):437–8

[The development of an original drug—a shining example for the decade] Sundquist H. **Duodecim** 1989; 105(17):1484–7 (Fin)

[Drug research and insurance medicine] Arndts D, et al. **Versicherungsmedizin** 1990 Feb 1;42(1):28–31 (Eng. Abstr.) (Ger)

[Pharmacy in the 90's: the modern process of drug registration] Pasotti V. **Boll Chim Farm** 1989 Jul–Aug; 128(7–8):248–52 (Eng. Abstr.) (Ita)

[Aspects of new drug development] Arai Y, et al. **Nippon Rinsho** 1990 Jun;48(6):1327–35 (Jpn)

[Trends and problems in the development of neuropeptide drugs] Kiso Y. **Nippon Rinsho** 1990 May;48(5):1066–70 (Jpn)

[Solid–state stability and preformulation study of a new parenteral cephalosporin antibiotics (E1040)] Ashizawa K, et al. **Yakugaku Zasshi** 1990 Mar;110(3):191–201 (Eng. Abstr.) (Jpn)

[Design of new oligonucleotide derivatives resistant to cell nucleases] Gottikh MB, et al. **Bioorg Khim** 1990 Apr; 16(4):514–23 (Eng. Abstr.) (Rus)

DRUG DETOXICATION, METABOLIC see **METABOLIC DETOXICATION, DRUG**

DRUG ERUPTIONS see **DERMATITIS MEDICAMENTOSA**

DRUG EVALUATION

see related
DRUGS, INVESTIGATIONAL

Evaluating effectiveness of pharmaceuticals. Jankel CA. **Am J Hosp Pharm** 1990 Jul;47(7):1633–5

The investigative process for new drugs. Nicklas RA. **Ann Allergy** 1989 Dec;63(6 Pt 2):598–600 (40 ref.)

But can you prove it? Walter J. **Australas J Dermatol** 1988; 29(2):121–2

Phase I trials: role of the nurse investigator. Melink TJ. **Cancer Treat Res** 1989;42:105–24 (56 ref.)

Issues in the design of drug trials for AIDS. Green SB, et al. **Controlled Clin Trials** 1990 Apr;11(2):80–7

N of 1 randomized trials for investigating new drugs. Guyatt GH, et al. **Controlled Clin Trials** 1990 Apr;11(2):88–100

Cervix cancer: too many patients [letter; comment] Cohen MH. **J Clin Oncol** 1990 Apr;8(4):755–6 Comment on: J Clin Oncol 1989 Oct;7(10):1462–8.

President receives Lasagna report on drug approval [news] Antoine F, et al. **J Natl Cancer Inst** 1990 Sep 19;82(18):1450

California drug agency provides alternative for "home–grown" products [news] Fintor L.

J Natl Cancer Inst 1990 Sep 19;82(18):1448–9
The role of the medical monitor. Miller E. Md Med J 1989 Dec;38(12):1071
Evaluation of drug safety by toxicological test procedures as provided by regulatory laws: an overview. Caprino L. Pharmacol Res 1990 May–Jun;22(3):253–62 (31 ref.)
The physicians' role in the clinical development of new medicines. Warrington SJ, et al. Postgrad Med J 1990 Jan; 66(771):34–9 (10 ref.)
Methodology of the evaluation of psychotropic drugs. Psychopharmacol Ser 1990;8:1–174
Evaluation of clinical and biological parameters in healthy volunteers: more than pharmacokinetics and side effects? Puech AJ, et al. Psychopharmacol Ser 1989;7:296–302 (42 ref.)
Laboratory tests during clinical trials. Scand J Clin Lab Invest Suppl 1989;195:16–8
Outlier detection in bioavailability/bioequivalence studies. Chow SC, et al. Stat Med 1990 May;9(5):549–58
[Mutagenic activity analysis of body fluids in the first phase of clinical drug trials] Cerná M, et al. Cesk Farm 1990 May;39(3):127–30 (Eng. Abstr.) (Cze)
[Methods for evaluating anti-angina agents] Weber S, et al. Arch Mal Coeur 1989 Dec;82(12):2077–81 (Fre)
[The objection to drug trials by salaried physicians on grounds of conscience. The judgement of the Labor Court of the Federal Republic of Germany of 24 May 1989] Rieger HJ. Dtsch Med Wochenschr 1990 Jun 15; 115(24):954–6 (Ger)
[Drug clinical trials (letter)] Flaten O. Tidsskr Nor Laegeforen 1990 Jun 20;110(16):2117–8 (Nor)

ECONOMICS

How to evaluate drugs. Cost–effectiveness analysis [editorial; comment] Beck JR. JAMA 1990 Jul 4;264(1):83–4 Comment on: JAMA 1990 Jul 4;264(1):41–7.

METHODS

Use of human monocytes in the evaluation of antiviral drugs: quantitation of HSV–1 cytopathic effects. Lazdins J, et al. Antiviral Res 1990 Apr;13(4):175–86
Symmetric group sequential test designs. Emerson SS, et al. Biometrics 1989 Sep;45(3):905–23
Design and analysis of phase I clinical trials. Storer BE. Biometrics 1989 Sep;45(3):925–37
Policies on drugs in the new Europe [editorial] Smith T. BMJ 1990 Jun 9;300(6738):1476–7
Multistep scheme for testing immunomodulatory substances. Macela A, et al. Bratisl Lek Listy 1989 Oct;90(10):719–31 (Eng, Cze)
Importance of long–term follow–up in evaluating treatment regimens for adults with acute lymphoblastic leukemia. Clarkson B, et al. Hamatol Bluttransfus 1990;33:397–408 (20 ref.)
Appraising the quality of drug–evaluation research: II. A methodological review procedure for prophylactic treatment trials. King PR. J Clin Psychopharmacol 1990 Feb;10(1):22–6 (32 ref.)
Research and development of new medicines. Ankier SI, et al. J Int Med Res 1989 Sep–Oct;17(5):407–16 (17 ref.)
Pharmacologically guided phase I clinical trials based upon preclinical drug development. Collins JM, et al. J Natl Cancer Inst 1990 Aug 15;82(16):1321–6
Laboratory study of drug–related performance changes. Burns M, et al. J Occup Med 1990 Apr;32(4):320–6
Designs for efficient clinical trials. Simon R. Oncology (Williston Park) 1989 Jul;3(7):43–9; discussion 51–3 (18 ref.)
Statistical requirements of phase I studies. Edler L. Onkologie 1990 Apr;13(2):90–5 (30 ref.)
Ethical considerations in phase I clinical trials. Sass HM. Onkologie 1990 Apr;13(2):85–8 (21 ref.)
The superiority of a drug combination over each of its components. Gibson JM, et al. Stat Med 1989 Dec; 8(12):1479–84
A sequential phase II/III trial for binary outcomes. Storer BE. Stat Med 1990 Mar;9(3):229–35
Incorporating historical control data in planning phase II clinical trials. Thall PF, et al. Stat Med 1990 Mar; 9(3):215–28
[Good clinical practice. Requirements for clinical documentation on the introduction of new drugs] Dirach J. Ugeskr Laeger 1990 Apr 2;152(14):992–4 (12 ref.) (Eng. Abstr.) (Dan)
[Methods of evaluating the treatment of cardiac insufficiency] Zannad F, et al. Arch Mal Coeur 1990 Jan;83(1):91–8 (Fre)
[The course of patients treated with placebo in trials of maintenance treatment of rheumatoid arthritis. Consequences for phase II studies] Méry C, et al. Rev Rhum Mal Osteoartic 1990 Feb;57(2):119–22 (Fre)

STANDARDS

Pharmacist's response when the motives for a change in physician prescribing seem questionable. Jeffrey PL, et al. Am J Hosp Pharm 1990 Apr;47(4):811; discussion 811–5
Analytical and regulatory considerations for ferritin–containing pharmaceutical products. Cavina G, et al. Ann Ist Super Sanita 1989;25(3):471–9
Comprehensive criteria for assessing therapy–induced toxicity. Ajani JA, et al. Cancer Invest 1990;8(2):147–59
Preclinical and phase I studies of monoclonal antibodies in melanoma: application to boron neutron capture therapy of melanoma. Hersey P. Pigment Cell Res 1989 Jul–Aug; 2(4):264–72 (80 ref.)

STATISTICS & NUMERICAL DATA

Continual reassessment method: a practical design for phase 1 clinical trials in cancer. O'Quigley J, et al. Biometrics 1990 Mar;46(1):33–48

TRENDS

Controversy V: phase I, first time in man studies. Colburn WA. J Clin Pharmacol 1990 Mar;30(3):210–22

DRUG EVALUATION, FDA PHASE I see **DRUG EVALUATION**

DRUG EVALUATION, FDA PHASE II see **DRUG EVALUATION**

DRUG EVALUATION, FDA PHASE III see **CLINICAL TRIALS**

DRUG EVALUATION, FDA PHASE IV see **CLINICAL TRIALS**

DRUG EVALUATION, PRECLINICAL see **DRUG SCREENING**

DRUG HABITUATION see **SUBSTANCE DEPENDENCE**

DRUG HYPERSENSITIVITY

Allergic reaction with immune hemolytic anemia resulting from chlorambucil. Thompson–Moya L, et al. Am J Hematol 1989 Nov;32(3):230–1
Immunogenicity and cross–allergenicity of aztreonam. Adkinson NF Jr. Am J Med 1990 Mar 23;88(3C):12S–15S; discussion 38S–42S
Multiple chemical hypersensitivities [letter] McLellan RK. Ann Intern Med 1989 Dec 1;111(11):953
Current perspectives on the diagnosis of drug allergy. de Weck AL. Ann Ital Med Int 1988 Oct–Dec;3(4):239–41
Allergic reaction to the food dye patent blue [letter] Chadwick BL, et al. Br Dent J 1990 May 19;168(10):386–7
Severe immunological reaction induced by sulphasalazine [letter] Pettersson T, et al. Br J Rheumatol 1990 Jun; 29(3):239–40
Cardiac catheterization in the patient with history of allergy to local anesthetics. Feldman T, et al. Cathet Cardiovasc Diagn 1990 Jul;20(3):165–7
Allergic reactions to drugs: current concepts and problems. Coleman JW. Clin Exp Allergy 1990 Jan;20(1):79–85 (52 ref.)
Drug allergy, immunotherapy, immune complexes and anaphylaxis. de Weck AL. Curr Opin Immunol 1989–90 Apr;2(4):548–57 (37 ref.)
Possible sulfite sensitivity with gentamicin infusion [letter] Deziel–Evans LM, et al. DICP 1989 Dec;23(12):1032–3
Tocainide: interstitial pneumonitis [letter] Ahmad S. J Am Coll Cardiol 1990 May;15(6):1458
Use of diphenhydramine for local anesthesia in "caine"–sensitive patients. Pollack CV Jr, et al. J Emerg Med 1989 Nov–Dec;7(6):611–4
Assessment of adverse reactions to prosthodontic materials. Dahl BL, et al. J Oral Rehabil 1990 May;17(3):279–86
Hypersensitivity reaction to epirubicin. Cassidy J, et al. Med Oncol Tumor Pharmacother 1989;6(4):297–8
Bipp: a case of toxicity? Jones JA. Oral Surg Oral Med Oral Pathol 1990 Jun;69(6):668–71
Aztreonam in the management of gram–negative infections in penicillin–allergic patients: a review. Saxon A. Pediatr Infect Dis J 1989 Sep;8(9 Suppl):S124–7; discussion S128–32 (8 ref.)
Adverse reactions to drugs. Semin Dermatol 1989 Sep; 8(3):135–226
Photo–induced drug eruptions. Rosen C. Semin Dermatol 1989 Sep;8(3):149–57 (105 ref.)
Prevention of anaphylaxis. Sussman GL, et al. Semin Dermatol 1989 Sep;8(3):158–65 (44 ref.)
[News and summaries from the seminar on evaluation of diagnostic tests for peranaesthetic anaphylactoid reactions. Nancy, 5 September 1989. Proceedings] Allerg Immunol (Paris) 1989 Nov;21(9):357–71 (Fre)
[Immuno–allergic thrombopenia caused by proxibarbal (letter)] Grosbois B, et al. Ann Med Interne (Paris) 1990; 141(1):84–5 (Fre)
[Mechanisms of undesirable effects of drugs] Royer RJ, et al. Ann Med Interne (Paris) 1989;140(7):618–9 (Eng. Abstr.) (Fre)
[Allergic vasculitis caused by etodolac. The first case (letter)] Willemin B, et al. Ann Med Interne (Paris) 1989; 140(6):529–30 (Fre)
[BCG and the monitoring of post–vaccinal allergy: a proven failure? (letter)] de Cornulier M, et al. Arch Fr Pediatr 1989 Oct;46(8):628 (Fre)
[Hypersensitivity pneumonia caused by sulfonamides] von Breska B, et al. Dtsch Med Wochenschr 1990 Jan 26; 115(4):139–41 (Eng. Abstr.) (Ger)
[Mechanisms of the development of drug–induced nephropathy] Komandenko MS, et al. Ter Arkh 1989; 61(6):36–8 (Eng. Abstr.) (Rus)

BLOOD

Abnormal platelet hydrogen peroxide metabolism in aspirin hypersensitivity. Pearson DJ, et al. Clin Exp Allergy 1990 Mar;20(2):157–63

COMPLICATIONS

Atopy and systemic reactions to drugs. Haddi E, et al. Allergy 1990 Apr;45(3):236–9
Thrombosis of the hepatic veins. "The Budd–Chiari syndrome"—a possible link between oral contraceptives and thrombosis formation. Ecker JA, et al. Am J Gastroenterol 1966 Jun;45(6):429–43 (36 ref.)
Severe intraoperative anaphylaxis to surgical gloves: latex allergy, an unfamiliar condition. Gerber AC, et al. Anesthesiology 1989 Nov;71(5):800–2
Exercise–induced anaphylaxis: improvement after removal of amalgam in dental caries. Katsunuma T, et al. Ann Allergy 1990 May;64(5):472–5
Medical history and primary liver cancer. La Vecchia C, et al. Cancer Res 1990 Oct 1;50(19):6274–7
Yohimbine–induced bronchospasm. Landis E, et al. Chest 1989 Dec;96(6):1424
Antibiotic–associated acute necrotizing esophagitis [letter] Mangan TF, et al. Gastroenterology 1990 Sep;99(3):900
Severe respiratory distress following premedication for small intestinal biopsy. Fradkin A, et al. Isr J Med Sci 1990 Jul; 26(7):412–3
Eczema–like, erythematous, infiltrated plaques: a common side effect of subcutaneous heparin therapy. Klein GF, et al. J Am Acad Dermatol 1989 Oct;21(4 Pt 1):703–7
Medication errors: 1977 to 1988. Experience in medical malpractice claims [see comments] Kuehm SL, et al. N J Med 1990 Jan;87(1):27–34 Comment in: N J Med 1990 Apr;87(4):285.
[Anesthesia of a patient with the Fernand–Widal syndrome] Boisson–Bertrand D, et al. Cah Anesthesiol 1989 Dec; 37(8):577–80 (9 ref.) (Fre)
[A case from practice (173). AIDS IV C–1 with Isospora belli enteritis. Status following Pneumocystis carinii pneumonia. Bactrim allergy] Hilti P. Schweiz Rundsch Med Prax 1990 Apr 17;79(16):505–6 (Ger)
[Occupational skin diseases and hypersensitivity to metals, especially chromium, cobalt and nickel among construction workers] Kieć–Swierczyńska M. Med Pr 1989;40(4):265–8 (Pol)
[Arrhythmogenic effect of anti–arrhythmia drugs: incidence, possible mechanisms and therapeutic tactics] Abdalla A, et al. Kardiologia 1990 Jan;30(1):95–100 (65 ref.) (Rus)
[Acute drug–induced hepatitis] Polunina TE. Klin Med (Mosk) 1989 Oct;67(10):87–90 (Rus)
[Development of arterial hypotension and headache in children after medication] Nadezhdina EA. Pediatriia 1990; (3):77–81 (Rus)
[Development of immunologic deficiency conditions and sensitization in industrial workers and methodologic approach to their detection and evaluation] Dueva LA, et al. Vestn Akad Med Nauk SSSR 1989;(12):76–82 (Eng. Abstr.) (Rus)

DIAGNOSIS

Differential diagnosis of MH. Heytens L. Acta Anaesthesiol Belg 1990;41(2):95–102
The lymphocyte response to nickel salt in patients with orthopedic implants. Bjurholm A, et al. Acta Orthop Scand 1990 Jun;61(3):248–50
Sensitivity to aspirin—methods of detection of sensitivity and inducing tolerance state to aspirin. Grzelewska–Rzymowska I, et al. Allergol Immunopathol (Madr) 1989 Sep–Oct;17(5):267–70 (30 ref.)
Drug–induced hypersensitivity nephritis: lymphocyte stimulation testing and renal biopsy in 10 cases. Joh K, et al. Am J Nephrol 1990;10(3):222–30
Patch test reactions to hexavalent and trivalent chromium compounds. Samitz MH, et al. Arch Dermatol 1966 Sep; 94(3):304–6
The role of skin testing for penicillin allergy. Redelmeier DA, et al. Arch Intern Med 1990 Sep;150(9):1939–45
Identifying adverse reactions to drugs. Reporting systems. Stern RS. Clin Dermatol 1986 Jan–Mar;4(1):15–22
Chemical, pharmaceutical and clinical standardization of the TRUE Test caine mix. Kreilgård B, et al. Contact Dermatitis 1989 Jul;21(1):23–7
Anaphylactic shock induced by paracetamol. Van Diem L, et al. Eur J Clin Pharmacol 1990;38(4):389–90
Comparison of bronchial and per oral provocation with aspirin in aspirin–sensitive asthmatics. Dahlén B, et al. Eur Respir J 1990 May;3(5):527–34
Choline magnesium trisalicylate in patients with aspirin–induced asthma. Szczeklik A, et al. Eur Respir J 1990 May;3(5):535–9
Plastibase: a new base for patch testing of metal antigens [letter] Bajaj AK, et al. Int J Dermatol 1990 Jan–Feb; 29(1):73
Allergic vasculitis induced by hydrochlorothiazide: confirmation by mast cell degranulation test [see comments] Grunwald MH, et al. Isr J Med Sci 1989 Oct;25(10):572–4

Comment in: Isr J Med Sci 1989 Oct;25(10):551–2. Comment in: Isr J Med Sci 1990 Mar;26(3):165–6.

Mast cell degranulation test: its significance in the diagnosis of drug allergy [editorial; comment] Mekori YA. **Isr J Med Sci** 1989 Oct;25(10):551–2 Comment on: Isr J Med Sci 1989 Oct;25(10):572–4.

Evaluation of ocular hypersensitivity to dipivalyl epinephrine by component eye-drop testing. Petersen PE, et al. **J Allergy Clin Immunol** 1990 May;85(5):954–8

Local anesthesia in dermatologic surgery [letter; comment] Fisher DA. **J Am Acad Dermatol** 1990 Jan;22(1):139–41 Comment on: J Am Acad Dermatol 1988 Oct;19(4):599–614.

Adverse drug reactions causing hospital admission in an elderly population: experience with a decision algorithm. Smucker WD, et al. **J Am Board Fam Pract** 1990 Apr–Jun; 3(2):105–9

Application of leucocyte migration tests to detection of allergenic drugs in patients with hypersensitivity to beta-lactam antibiotics. Uno K, et al. **J Antimicrob Chemother** 1989 Aug;24(2):241–50

Diagnosis of anhydride sensitivity [letter; comment] Zeiss CR. **J Occup Med** 1989 Oct;31(10):868–70 Comment on: J Occup Med 1988 Oct;30(10):785–90.

Proving penicillin allergy. Erffmeyer JE, et al. **Postgrad Med** 1990 Feb 1;87(2):33–5, 39, 41 (14 ref.)

Drug allergy. Best diagnostic and treatment approaches. Volz MA, et al. **Postgrad Med** 1990 Apr;87(5):137–42, 149 (22 ref.)

Bayesian differential diagnosis of a cutaneous reaction associated with the administration of sulfonamides. Ghajar BM, et al. **Semin Dermatol** 1989 Sep;8(3):213–8

Oral provocation: limitations. Girard M. **Semin Dermatol** 1989 Sep;8(3):192–5 (8 ref.)

Oral provocation: uses. Kauppinen K, et al. **Semin Dermatol** 1989 Sep;8(3):187–91 (12 ref.)

Testing for allergy to antibiotics. Weber EA, et al. **Semin Dermatol** 1989 Sep;8(3):204–12

An approach to the evaluation and documentation of adverse drug reaction. Goh CL. **Singapore Med J** 1989 Jun; 30(3):285–9 (13 ref.)

[Diagnosis of penicillin allergy. Results of a clinical investigation program] Andersen HE, et al. **Ugeskr Laeger** 1989 Oct 30;151(44):2883–6 (Eng. Abstr.) (Dan)

[Penicillin allergy. Provocation in patients with suspected penicillin allergy] Knudsen BB. **Ugeskr Laeger** 1989 Sep 18;151(38):2416–8 (Eng. Abstr.) (Dan)

[Drug-induced allergies] Dry J, et al. **Ann Med Interne (Paris)** 1989;140(7):579–81 (Fre)

[Hypersensitivity to aspirin and other non-steroidal anti-inflammatory agents—the methods of detecting the hypersensitivity and the development of the state of tolerance] Grzelewska-Rzymowska I, et al. **Pol Arch Med Wewn** 1989 Feb;81(2):107–13 (34 ref.) (Pol)

[Chemotactic activity of serum neutrophils during aspirin-induced bronchial spasm] Grzelewska-Rzymowska I, et al. **Pol Arch Med Wewn** 1987 Aug;78(2):65–72 (Eng. Abstr.) (Pol)

[Difficulties in medico-legal diagnosis of occupational dermatoses in women sensitive to nickel] Kieć-Swierczyńska M. **Przegl Dermatol** 1990 Jan–Feb; 77(1):7–13 (Eng. Abstr.) (Pol)

[The oral neutrophil alteration test in drug allergy] Uk KW, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):326–7 (Eng. Abstr.) (Rus)

[Ascaridosis imitating drug allergy] Solodkovskiĭ ML, et al. **Klin Med (Mosk)** 1990 Mar;68(3):137–8 (Rus)

[A method of immunothermistography in the diagnosis of sensitivity to antibiotics in surgical patients] Feofilov GL, et al. **Vestn Khir** 1989 Nov;143(11):52–3 (Rus)

[Multiple chemical sensitivities. A new diagnostic entity?] Järvholm B, et al. **Lakartidningen** 1989 Oct 4;86(40):3362 (Swe)

ENZYMOLOGY

[Pharmacogenetic aspects of cutaneous drug reactions] Merk H. **Z Hautkr** 1990 Mar;65(3):217–20 (45 ref.) (Ger)

EPIDEMIOLOGY

Increased incidence of hypersensitivity to iodine-containing radiographic contrast media after interleukin-2 administration. Zukiwski AA, et al. **Cancer** 1990 Apr 1; 65(7):1521–4

Increased incidence in leprosy of hypersensitivity reactions to dapsone after introduction of multidrug therapy. Richardus JH, et al. **Lepr Rev** 1989 Dec;60(4):267–73

[Prospective preoperative survey of 300 patients using prick tests with muscle relaxants] Maria Y, et al. **Ann Fr Anesth Reanim** 1989;8(4):301–5 (Eng. Abstr.) (Fre)

ETIOLOGY

The allopurinol hypersensitivity syndrome: its relation to plasma oxypurinol levels. Casas E, et al. **Adv Exp Med Biol** 1989;253A:257–60

Hypersensitivity reaction during barium enema [letter; comment] Brenner JS, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):199 Comment on: AJR Am J Roentgenol 1989 Aug;153(2):275–6.

Reaction to nonionic contrast medium during arthrography of the temporomandibular joint [letter] Westesson PL, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1344

NSAIDs-induced asthma: peculiarities related to background and association with other drug or non-drugs etiological agents. Iamandescu IB. **Allergol Immunopathol (Madr)** 1989 Nov–Dec;17(6):285–90

Serum sickness-like syndrome associated with minocycline therapy. Puyana J, et al. **Allergy** 1990 May;45(4):313–5

Sulfites: a review with emphasis on biochemistry and clinical application. Nicklas RA. **Allergy Proc** 1989 Sep–Oct; 10(5):349–56 (45 ref.)

Sulfite challenge for the diagnosis of sensitivity. Simon RA. **Allergy Proc** 1989 Sep–Oct;10(5):357–62 (27 ref.)

von Willebrand's variant (type II Buffalo). Thrombocytopenia after desmopressin but absence of in vitro hypersensitivity to ristocetin. Sweeney JD, et al. **Am J Clin Pathol** 1990 Apr;93(4):522–5

Anaphylactic reaction to barium enema [letter] al-Mudallal R, et al. **Am J Med** 1990 Aug;89(2):251

Hypersensitivity to magnesium sulfate. Thorp JM Jr, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):889–90

Anaphylaxis to thiopentone--a reply [letter; comment] [see comments] Pearce H. **Anaesth Intensive Care** 1989 Nov; 17(4):518 Comment on: Anaesth Intensive Care 1989 Aug;17(3):361–5. Comment in: Anaesth Intensive Care 1990 Feb;18(1):142–4.

Safe induction with propofol following thiopentone anaphylaxis [letter] Williamson J. **Anaesth Intensive Care** 1990 May;18(2):277–8

A life-threatening reaction after propranolol administration in the operating room. Parker SD, et al. **Anesth Analg** 1990 Feb;70(2):220–1

Insulin allergy: re-evaluation after two decades. Patterson R, et al. **Ann Allergy** 1990 May;64(5):459–62

Doxorubicin hypersensitivity and clindamycin [letter] Arena FP, et al. **Ann Intern Med** 1990 Jan 15;112(2):150

Anaphylactoid reactions reported after treatment with ciprofloxacin. Davis H, et al. **Ann Intern Med** 1989 Dec 15;111(12):1041–3

Hypersensitivity pneumonitis and pulmonary vasculitis with eosinophilia in a patient taking an L-tryptophan preparation. Travis WD, et al. **Ann Intern Med** 1990 Feb 15;112(4):301–3

Azathioprine induced fever, chills, rash, and hepatotoxicity in rheumatoid arthritis. Jeurissen ME, et al. **Ann Rheum Dis** 1990 Jan;49(1):25–7

Quinine hepatotoxicity. An underrecognized or rare phenomenon? Punukollu RC, et al. **Arch Intern Med** 1990 May;150(5):1112–3

Sulfonamide hypersensitivity and acetazolamide [letter] Stock JG. **Arch Ophthalmol** 1990 May;108(5):634–5

Recurrent acute hypersensitivity to quinine. Barr E, et al. **BMJ** 1990 Aug 11;301(6747):323

Hypersensitivity reaction to high-dose cytarabine. Williams SF, et al. **Br J Haematol** 1989 Oct;73(2):274–5

A localized hypersensitivity reaction to co-trimoxazole in a previously irradiated field simulating a recall phenomenon [letter] Atahan IL, et al. **Br J Radiol** 1989 Dec; 62(744):1107–8

A localized hypersensitivity reaction to cotrimoxazole in a previously irradiated field simulating a recall phenomenon [letter] Leslie MD, et al. **Br J Radiol** 1990 Aug;63(752):661

An allergic reaction following injection of local anesthetic: a case report. MacColl S, et al. **Can Dent Assoc J** 1989 Dec;55(12):981–4

Syncope caused by methacholine in a patient with exercise-induced anaphylaxis [letter] van Assendelft AH. **Chest** 1989 Dec;96(6):1442–3

Unexpected drug reactions. **Clin Dermatol** 1986 Jan–Mar; 4(1):1–193

Adverse reactions to antibiotics other than penicillin. Fellner MJ, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):142–8 (44 ref.)

Adverse reactions to penicillin and related drugs. Fellner MJ. **Clin Dermatol** 1986 Jan–Mar;4(1):133–41

Aspirin-sensitive asthma. Ameisen JC, et al. **Clin Exp Allergy** 1990 Mar;20(2):127–9

Immediate hypersensitivity reactions to penicillin and related antibiotics [letter] Blanca M, et al. **Clin Exp Allergy** 1989 Sep;19(5):556–8

Ispaghula sensitization in workers manufacturing a bulk laxative. McConnochie K, et al. **Clin Exp Allergy** 1990 Mar; 20(2):199–202

A localized, recurrent pustular eruption following amoxycillin administration. Shuttleworth D. **Clin Exp Dermatol** 1989 Sep;14(5):367–8

Supersensitivity to subcutaneous lidocaine [letter] Grothe DR, et al. **Clin Pharm** 1990 May;9(5):338

Allergy to ethyl chloride does occur, and might frequently be misdiagnosed. Aberer W, et al. **Contact Dermatitis** 1989 Nov;21(5):352–3

Contact dermatitis from dexchlorpheniramine. Cusano F, et al. **Contact Dermatitis** 1989 Nov;21(5):340

Clinical evidence of cross-sensitivity between thiosalicylic acid, a contact allergen, and piroxicam, a photoallergen. de la Cuadra J, et al. **Contact Dermatitis** 1989 Nov; 21(5):349–51

Hypersensitivity to ketoconazole preparations: study of 4 cases. Garcia-Bravo B, et al. **Contact Dermatitis** 1989 Nov; 21(5):346–8

Contact sensitivity to topical antimicrobials. (II). Sensitizing potentials of some topical antimicrobials. Goh CL. **Contact Dermatitis** 1989 Sep;21(3):166–71

Changes in penicillin contamination and allergy in factory workers. Møller NE, et al. **Contact Dermatitis** 1990 Feb; 22(2):106–7

Tiaprofenic acid photodermatitis. Valsecchi R, et al. **Contact Dermatitis** 1989 Nov;21(5):345–6

Preliminary patch testing with 25% and 15% 'caine'-mixes. The EECDRG. Wilkinson JD, et al. **Contact Dermatitis** 1990 Apr;22(4):244–5

Drug metabolism by leukocytes and its role in drug-induced lupus and other idiosyncratic drug reactions. Uetrecht J. **Crit Rev Toxicol** 1990;20(4):213–35 (295 ref.)

Drug allergy. Assem ES. **Curr Opin Immunol** 1989 Apr; 1(4):660–6 (23 ref.)

Reactions to injectable local anesthetics. Part IV: Reactions to sulfites in local anesthetics. Fisher AA. **Cutis** 1989 Oct; 44(4):283–4 (8 ref.)

Erythema multiforme-like fixed drug eruption. Inserra DW, et al. **Cutis** 1989 Sep;44(3):223–5

Inframammary, intertriginous, and decubital erosions due to etretinate. Shelley ED, et al. **Cutis** 1990 Feb;45(2):111–3

Contact sensitivity to systemically administered drugs. Rudzki E. **Dermatol Clin** 1990 Jan;8(1):177–80

Comment: incidence of adverse reactions caused by contrast media [letter; comment] **DICP** 1990 May;24(5):547–8 Comment on: DICP 1989 Nov;23(11):925–6.

Clinical features and management of severe dermatological reactions to drugs. Raviglione MC, et al. **Drug Saf** 1990 Jan–Feb;5(1):39–64 (151 ref.)

The cyclooxygenase theory of aspirin-induced asthma. Szczeklik A. **Eur Respir J** 1990 May;3(5):588–93 (51 ref.)

Chronic cholestasis, paucity of bile ducts, red cell aplasia, and the Stevens-Johnson syndrome. An ampicillin-associated case. Cavanzo FJ, et al. **Gastroenterology** 1990 Sep;99(3):854–6

Making a rash diagnosis: amoxicillin therapy in infectious mononucleosis. Pauszek ME. **Indiana Med** 1990 May; 83(5):330–1

The specificity of the zimelidine reaction. Montgomery SA, et al. **Int Clin Psychopharmacol** 1989 Jan;4(1):19–23

Hypersensitivity reactions to trimetrexate. Grem JL, et al. **Invest New Drugs** 1990 May;8(2):211–4

Azathioprine hypersensitivity in bullous pemphigoid. Collison DW, et al. **J Am Acad Dermatol** 1990 Jul; 23(1):125–7

Contact sensitivity to nonoxynols as a cause of intolerance to antiseptic preparations. Dooms-Goossens A, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):723–7

Bumetanide-induced pseudoporphyria. Leitao EA, et al. **J Am Acad Dermatol** 1990 Jul;23(1):129–30

Conference participants predict allergenic effects from veterinary drugs [news] **J Am Vet Med Assoc** 1990 Mar 15;196(6):851

Allergic reactions during anesthesia [clinical conference] Levy JH. **J Clin Anesth** 1988;1(1):39–46 (26 ref.)

Rapid development of pancreatitis following reuse of 6-mercaptopurine. Cappell MS, et al. **J Clin Gastroenterol** 1989 Dec;11(6):679–81

Hypersensitivity reactions to CHIP [letter] Rodenburg CJ, et al. **J Clin Oncol** 1990 Jun;8(6):1119

Retattooing after the treatment of a red tattoo reaction with the CO2 laser [letter] Brodell RT. **J Dermatol Surg Oncol** 1990 Aug;16(8):771

Suppression of urushiol-induced delayed-type hypersensitivity responses in mice with serum IgG immunoglobulin from human hyposensitized donors. Stampf JL, et al. **J Invest Dermatol** 1990 Sep;95(3):363–5

Sulfasalazine hypersensitivity with hepatotoxicity, thrombocytopenia, and erythroid hypoplasia. Gremse DA, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):261–3

Physician reporting of adverse drug reactions. Results of the Rhode Island Adverse Drug Reaction Reporting Project [see comments] Scott HD, et al. **JAMA** 1990 Apr 4; 263(13):1785–8 Comment in: JAMA 1990 Apr 4;263(13):1823.

Parenteral nutrition hypersensitivity. Levy M, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):213–5

Anginal attack following a sodium bicarbonate and hydrocortisone injection. Wu DJ, et al. **Jpn Heart J** 1990 Jan;31(1):109–13

Hypersensitivity and streptokinase [letter] Barnham M. **Lancet** 1990 Mar 3;335(8688):535

Airborne antigens from latex gloves [letter] [see comments] Baur X, et al. **Lancet** 1990 Apr 14;335(8694):912 Comment in: Lancet 1990 Jun 16;335(8703):1469.

Plasticisers and bronchial hyperreactivity [letter] Doelman CJ, et al. **Lancet** 1990 Mar 24;335(8691):725

Recovery from mycoplasma meningoencephalitis, credited to penicillin allergy [letter] Evans MR, et al. **Lancet** 1990 May 5;335(8697):1100

Type III allergic reaction after infusion of immunoglobulins [letter] Hachimi-Idrissi S, et al. **Lancet** 1990 Jul 7; 336(8706):55

Aztreonam-induced anaphylaxis [letter] Iglesias Cadarso A, et al. **Lancet** 1990 Sep 22;336(8717):746–7

Multiple drug reactions in a patient with AIDS [letter] [see comments] Ong EL, et al. **Lancet** 1989 Oct 21; 2(8669):976–7 Comment in: Lancet 1989 Dec 16;2(8677):1455.

"Treating through" hypersensitivity to co-trimoxazole in AIDS patients [letter] Putterman C, et al. **Lancet** 1990 Jul 7;336(8706):52

Delayed type hypersensitivity to fusidic acid in patients with chronic dermatitis [letter] Riess CE, et al. **Lancet** 1990 Jun 23;335(8704):1525–6

Latex as aeroallergen [letter] Seaton A. **Lancet** 1990 Sep 29; 336(8718):808–9

Immediate hypersensitivity to aztreonam. Soto Alvarez J, et al. **Lancet** 1990 May 5;335(8697):1094

'Flu' syndrome on once monthly rifampicin: a case report. Vaz M, et al. **Lepr Rev** 1989 Dec;60(4):300–2

Allergic nephropathy associated with ciprofloxacin. Rastogi S, et al. **Mayo Clin Proc** 1990 Jul;65(7):987–9

Phenytoin hypersensitivity. Finan E, et al. **Md Med J** 1990 Jun;39(6):589–91

Ketoprofen: possible idiosyncratic acute bronchospasm [letter] Schreuder G. **Med J Aust** 1990 Mar 19;152(6):332–3

Radiotherapy enhances the toxicity of aminoglutethimide. Vanek N, et al. **Med Pediatr Oncol** 1990;18(2):162–4

Life-threatening reactions to intravenous protamine [letter; comment] **N Engl J Med** 1989 Dec 14;321(24):1684–5 Comment on: N Engl J Med 1989 Apr 6;320(14):886–92.

Systemic contact-type dermatitis due to drugs. Menné T, et al. **Semin Dermatol** 1989 Sep;8(3):144–8 (41 ref.)

Ocular sensitivity to thimerosal: a problem with hepatitis B vaccine? [see comments] Kirkland LR. **South Med J** 1990 May;83(5):497–9 (12 ref.) Comment in: South Med J 1990 May;83(5):494–6.

Azathioprine hypersensitivity in a renal transplant recipient. Vandepitte K, et al. **Transpl Int** 1990 May;3(1):47–8

Allergic reaction following micturating cystourethrography. Bettenay F, et al. **Urol Radiol** 1989;11(3):167–8

[Hypersensitivity due to topical use of silver sulfadiazine on burn wounds (report of 6 cases)] Jia XM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1985 Sep;1(3):232–3 **(Chi)**

[Unusual complications of anticoagulation therapy] Vyskočil V, et al. **Acta Chir Orthop Traumatol Cech** 1989 Oct; 56(5):440–5 (Eng. Abstr.) **(Cze)**

[Corticosteroid allergy] Lauerma AI, et al. **Duodecim** 1989; 105(20):1669–73 (14 ref.) **(Fin)**

[Peranaesthetic iterative allergic accident; apropos of a case involving oxytocin] Pradines B, et al. **Agressologie** 1989 May;30(5):297–300 (16 ref.) (Eng. Abstr.) **(Fre)**

[Allergy to dermocorticoids] Bonniol JP. **Allerg Immunol (Paris)** 1990 Jun;22(6):222–4 (13 ref.) (Eng. Abstr.) **(Fre)**

[Mercury—is it a respiratory tract allergen?] Drouet M, et al. **Allerg Immunol (Paris)** 1990 Mar;22(3):81, 84–8 (7 ref.) (Eng. Abstr.) **(Fre)**

[Fernand Widal syndrome and sulfite intolerance. Therapeutic problems in general and ORL problems in particular] Drouet M, et al. **Allerg Immunol (Paris)** 1990 Mar;22(3):90–6 (Eng. Abstr.) **(Fre)**

[Allergy to ketamine] Karayan J, et al. **Ann Fr Anesth Reanim** 1990;9(4):396–7 (Eng. Abstr.) **(Fre)**

[Will the anesthesiologist in obstetrics, tomorrow be a new decision maker in family planning? (letter)] Thomas P, et al. **Ann Fr Anesth Reanim** 1990;9(2):190 **(Fre)**

[Reactions caused by "patent blue" observed in lymphography (letter)] Belhaouari M, et al. **Therapie** 1989 Sep–Oct;44(5):377–8 **(Fre)**

[Contact allergy of the immediate type to topical use of lidocaine] Budde J, et al. **Derm Beruf Umwelt** 1989 Sep–Oct;37(5):181–2 (Eng. Abstr.) **(Ger)**

[Allergic reactions to glucocorticoids] Uter W. **Derm Beruf Umwelt** 1990 May–Jun;38(3):75–90 (148 ref.) (Eng. Abstr.) **(Ger)**

[Persistent spontaneous erythema caused by topical use of fumaric acid monoethyl ester—an obligate mast cell degranulation?] Gehring W, et al. **Dermatol Monatsschr** 1990;176(2–3):123–8 (Eng. Abstr.) **(Ger)**

[Early and late complications of toxic and allergic origin following sclerotherapy in hemorrhoids] Krause H. **Schweiz Rundsch Med Prax** 1990 Jun 26;79(26):829–30 (Eng. Abstr.) **(Ger)**

[The family physician and drug side-effects. Observations from general practice—conclusions for general practice] Stahl H. **Schweiz Rundsch Med Prax** 1989 Aug 15; 78(33):874–9 (Eng. Abstr.) **(Ger)**

[A successfully treated case of splenic abscess due to candidiasis associated with drug induced myelosuppression] Sakane M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):278–82 **(Jpn)**

[Chemical hypersensitivity] Aas K. **Tidsskr Nor Laegeforen** 1990 Jun 10;110(15):1929–31 **(Nor)**

[Allopurinol hypersensitivity syndrome] Gram JT, et al. **Tidsskr Nor Laegeforen** 1989 Oct 30;109(30):3102–4 (Eng. Abstr.) **(Nor)**

[Use of cephalosporins in pediatric practice with the study of the immunoleukolysis (leukocytolysis) reaction] Poshekhonov SA, et al. **Antibiot Khimioter** 1989 Sep; 34(9):699–701 (Eng. Abstr.) **(Rus)**

[Intolerance of chemotherapy of pulmonary tuberculosis in a patient with hysterical neurosis] Gerasimov EA. **Probl Tuberk** 1990;(1):74–5 **(Rus)**

[An allergic reaction after raveron administration] Belova IV, et al. **Urol Nefrol (Mosk)** 1990 Mar–Apr;(2):70–1 **(Rus)**

[The role of lipid peroxidation disorders in the pathogenesis of drug disease] Soloshenko EN. **Vestn Dermatol Venerol** 1989;(11):4–8 (Eng. Abstr.) **(Rus)**

[Allergic complications in patients with rheumatism] Anggelutsa PA, et al. **Vrach Delo** 1989 Sep;(9):9–12 (Eng. Abstr.) **(Rus)**

[Hyperergic reactions to tuberculin] Roslik SM, et al. **Vrach Delo** 1989 Sep;(9):52–4 (Eng. Abstr.) **(Rus)**

[Clinical gerontological psychopharmacology: achievements and problems (review of foreign studies)] Kontsevoĭ VA, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):127–38 (237 ref.) **(Rus)**

[Respiratory distress in adults and disseminated intravascular coagulation after administration of iodinated contrast] Bisbe E, et al. **Rev Esp Anestesiol Reanim** 1990 May–Jun; 37(3):156–9 (Eng. Abstr.) **(Spa)**

[Allergic reactions to local anesthetics] Escolano F, et al. **Rev Esp Anestesiol Reanim** 1990 May–Jun;37(3):172–5 (Eng. Abstr.) **(Spa)**

[AD oil drops as a risk for the development of allergy?] Förberg A. **Lakartidningen** 1989 Oct 18;86(42):3554 **(Swe)**

GENETICS

Expression of verapamil hypersensitivity in multidrug-resistant cells grown as multicellular spheroids. Anderson M, et al. **Cancer Chemother Pharmacol** 1990; 26(2):151–4

Genetic control of nickel sulfate delayed-type hypersensitivity. Ishii N, et al. **J Invest Dermatol** 1990 May; 94(5):673–6

Isolation and partial characterisation of a mammalian cell mutant hypersensitive to topoisomerase II inhibitors and X-rays. Davies SM, et al. **Mutat Res** 1990 Mar;235(2):111–8

Pharmacogenetics and cutaneous drug reactions. Shear NH, et al. **Semin Dermatol** 1989 Sep;8(3):219–26 (53 ref.)

[The HLA system and analgesic-induced asthma syndrome] Schmitz-Schumann M, et al. **Pneumologie** 1990 Feb;44 Suppl 1:580–1 (Eng. Abstr.) **(Ger)**

HISTORY

A brief history of drug reactions. Laughlin S, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):1–14

IMMUNOLOGY

IgE antibodies to human growth hormone prior to and during treatment. Petersen KG, et al. **Acta Endocrinol (Copenh)** 1989 Oct;121(4):501–4

Evaluation of allergic drug reactions in the perioperative period. Weiss ME, et al. **Anesthesiology** 1989 Oct; 71(4):483–6 (33 ref.)

Immune activation and autoantibodies in humans with long-term inhalation exposure to formaldehyde. Thrasher JD, et al. **Arch Environ Health** 1990 Jul–Aug;45(4):217–23

Specificity of IgE antibody against various insulins in a patient with anaphylaxis to beef-pork insulin but not to human (rDNA) insulin. Grammer LC, et al. **Clin Exp Allergy** 1989 Sep;19(5):551–3

Antigen-restricted antigenic competition induced by 2,4-dinitrochlorobenzene: association with depression of lymphocyte proliferation. Kimber I, et al. **Int Arch Allergy Appl Immunol** 1990;91(3):315–22

Resistance and allergy to recombinant human insulin. Ganz MA, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):45–51

Drug allergy and Hymenoptera sensitivity. Luskin AT. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 2):1068–72

Comparison of eosinophil densities in oral mucosal lichen planus and lichenoid drug reactions. Firth NA, et al. **J Oral Pathol Med** 1990 Feb;19(2):86–8

Immunological alterations and chemical exposure. Sullivan JB Jr. **J Toxicol Clin Toxicol** 1989;27(6):311–43 (67 ref.)

Nickel allergy in relationship to previous oral and cutaneous nickel contact. Todd DJ, et al. **Ulster Med J** 1989 Oct; 58(2):168–71

Oral provocation tests with aspirin and food additives in asthmatic patients. Hong SP, et al. **Yonsei Med J** 1989 Dec; 30(4):339–45

[Systemic eczematous contact type dermatitis] Aquilina C, et al. **Ann Dermatol Venereol** 1989;116(10):753–65 **(Fre)**

[Immediate allergy to latex. 12 cases] Dry J, et al. **Ann Med Interne (Paris)** 1989;140(8):691–3 (Eng. Abstr.) **(Fre)**

[Relation of papaya ingestion and the presence of chymopapain-specific immunoglobulins E (letter)] Guérin B, et al. **Presse Med** 1990 Mar 10;19(9):429 **(Fre)**

[What clinical significance do antibodies to drugs have? Side effects are as possible as ineffectiveness] Storch W. **Fortschr Med** 1990 Jan 15;108(1):23 **(Ger)**

[Antibodies against D-penicillamine in primary biliary cirrhosis] Storch W. **Immun Infekt** 1990 Feb;18(1):22–3 (Eng. Abstr.) **(Ger)**

[Allergic reactions in treatment with L-asparaginase. Significance of specific IgE antibodies] Körholz D, et al. **Monatsschr Kinderheilkd** 1990 Jan;138(1):23–5 (Eng. Abstr.) **(Ger)**

METABOLISM

Histamine release and pseudoallergic reactions induced by radiographic contrast media: comparison of Angiographin, Hexabrix and Telebrix using an in vivo canine model. Ennis M, et al. **Agents Actions** 1990 Apr;30(1–2):81–4

Structural correlations with cross-reactivity of beta-lactam antibiotics in delayed type hypersensitivity. Cross-allergenicity in hypersensitivity to cephems with a tetrazolyl group in the C-3 side chain. Uno K, et al. **J Antimicrob Chemother** 1989 Aug;24(2):251–64

PATHOLOGY

Granulocyte migration ability in subjects hypersensitive to aspirin. Matusiewicz R, et al. **Allergol Immunopathol (Madr)** 1989 Sep–Oct;17(5):241–4

Bleomycin hypersensitivity in dyskeratosis congenita fibroblasts, lymphocytes, and transformed lymphoblasts. Pai GS, et al. **Cytogenet Cell Genet** 1989;52(3–4):186–9

Hypersensitivity reaction to sulfasalazine with severe hepatotoxicity. Sotolongo RP, et al. **Gastroenterology** 1978 Jul;75(1):95–9

Hypersensitivity reactions from taxol. Weiss RB, et al. **J Clin Oncol** 1990 Jul;8(7):1263–8

Gastrointestinal type 1 hypersensitivity to azathioprine. Riedel RR, et al. **Klin Wochenschr** 1990 Jan 4;68(1):50–2

[Morphology and pathogenesis of changes in the lungs during drug-induced anaphylactic shock in humans] Shkutin AE, et al. **Arkh Patol** 1989;51(9):48–54 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Time pattern of allergic reactions to drugs. Hoigné R, et al. **Agents Actions Suppl** 1990;29:39–58

Halothane sensitivity of young pigs in vivo and in vitro. Fay RS, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):R133–8

Serum sickness-like illness associated with ciprofloxacin. Slama TG. **Antimicrob Agents Chemother** 1990 May; 34(5):904–5

Drug- or hormone-induced adaptation: model of adrenergic hypersensitivity. Lima JJ, et al. **J Pharmacokinet Biopharm** 1989 Jun;17(3):347–64

[First aid in reactions to contrast media] Chandie Shaw MP, et al. **Ned Tijdschr Geneeskd** 1990 Apr 21;134(16):805–8 (25 ref.) **(Dut)**

PREVENTION & CONTROL

The pharmacological modulation of delayed type hypersensitivity (DTH) reactions to topical oxazolone in mouse skin. Cavey D, et al. **Agents Actions** 1990 Jan; 29(1–2):65–7

Use of bovine lung heparin to obviate anaphylactic shock caused by porcine gut heparin. Harada A, et al. **Ann Thorac Surg** 1990 May;49(5):826–7

Tolerance of cyclosporine oral capsules in a patient hypersensitive to standard oral and intravenous solutions of the drug. Cooney GF, et al. **Transplantation** 1990 Apr; 49(4):823–4

[Prevention of intolerance to iodized contrast media] Soyer P, et al. **Presse Med** 1990 Mar 31;19(12):562–5 (Eng. Abstr.) **(Fre)**

[Is sodium salicylate suitable as a protective agent in the analgesic-induced asthma syndrome?] Schäufele A, et al. **Pneumologie** 1990 Feb;44 Suppl 1:371–2 (Eng. Abstr.) **(Ger)**

[Do non-ionic contrast media reduce the examination risk?] Schmiedel E. **Rontgenpraxis** 1989 Oct;42(10):335–7 (12 ref.) **(Ger)**

[Characteristics of antibiotic use in children] Poliak MS. **Antibiot Khimioter** 1990 Mar;35(3):38–42 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

[123I or 131I nephrography in iodine allergy, thyroid autonomy or hyperthyroidism (letter)] Wolf F, et al. **Dtsch Med Wochenschr** 1990 Aug 31;115(35):1333 **(Ger)**

THERAPY

Pattern of changes in clinico-immunological indicators of patients with drug allergy during treatment with autologous blood. Khodanova RN, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4):463–9

"Treating through" hypersensitivity to cotrimoxazole in children with HIV infection [letter] Kreuz W, et al. **Lancet** 1990 Aug 25;336(8713):508–9

Treatment of allergic adverse drug reactions. Oh VM. **Singapore Med J** 1989 Jun;30(3):290–3 (12 ref.)

[Desensitization in drug allergy] Patkowski J. **Pol Tyg Lek** 1989 Jul 3;44(27):627–31 (36 ref.) **(Pol)**

[Hemosorption in the treatment of aspirin-induced bronchial asthma] Didkovskiĭ NA,, et al. **Klin Med (Mosk)** 1989 Dec; 67(12):40–4 (Eng. Abstr.) **(Rus)**

DRUG IMPLANTS

Primate trabeculectomies with 5-fluorouracil collagen implants. Hasty B, et al. **Am J Ophthalmol** 1990 Jun 15; 109(6):721–5

Implantable microencapsulated dopamine (DA): prolonged functional release of DA in denervated striatal tissue. McRae A, et al. **J Neural Transm Suppl** 1990;29:207–15

Local ofloxacin delivery using a controlled-release insert (PT-01) in the human periodontal pocket. Higashi K, et al. **J Periodont Res** 1990 Jan;25(1):1–5

In vitro release of doxycycline from bioabsorbable materials and acrylic strips. Larsen T. **J Periodontol** 1990 Jan; 61(1):30–4

New directions in CNS drug delivery. Langer R, et al. **Neurobiol Aging** 1989 Sep–Oct;10(5):642–4; discussion

648–50
Sustained and controlled release of neuroactive substances in the CNS by encapsulation into implantable polymers. Peterson GM. **Neurobiol Aging** 1989 Sep–Oct;10(5):639–40; discussion 648–50
The use of hollow polymer fibers for the delivery of bioactive molecules to the brain. Springer JE. **Neurobiol Aging** 1989 Sep–Oct;10(5):640–1; discussion 648–50
Delivery of neuroactive compounds to the brain: potential utility of genetically modified cells. Tuszynski MH, et al. **Neurobiol Aging** 1989 Sep–Oct;10(5):644–5; discussion 648–50
Tone of relief. Ultrasound speeds the release of drugs from medical implants [news] Rennie J. **Sci Am** 1990 Apr; 262(4):30
Acceptance and perceptions of NORPLANT among users in San Francisco, USA. Darney PD, et al. **Stud Fam Plann** 1990 May–Jun;21(3):152–60
Sustained-release endobronchial carcinogenic implants. Shors EC, et al. **Surg Forum** 1978;29:205–7
[Disulfiram implants. Lack of pharmacological and clinical effects] Johnsen J, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1229–30 (10 ref.) (Eng. Abstr.) **(Nor)**

ADVERSE EFFECTS

Insertion site complications during the first year of NORPLANT use. Klavon SL, et al. **Contraception** 1990 Jan;41(1):27–37

PHARMACOLOGY

Acute histopathological response to a new biodegradable polypeptidic polymer for implantable drug delivery system. Lescure F, et al. **J Biomed Mater Res** 1989 Nov; 23(11):1299–313
Bleeding patterns and acceptability among Norplant users in Singapore. Singh K, et al. **Singapore Med J** 1989 Apr; 30(2):145–7

DRUG INCOMPATIBILITY

Compatibility of drugs separated by a fluid barrier in a retrograde intravenous infusion system. Garner SS, et al. **Am J Hosp Pharm** 1990 Mar;47(3):604–6
Intravenous drug compatibility [editorial; comment] DeMonaco HJ. **Crit Care Med** 1990 Aug;18(8):896 Comment on: Crit Care Med 1990 Aug;18(8):858–61.
Subcutaneous drug compatibility in palliative care [letter] Regnard CF, et al. **Lancet** 1989 Oct 28;2(8670):1044–5
[Particle load in intensive therapy. Possible solutions using a multi-lumen catheter and Intrapur filter] Schröder F. **Infusionstherapie** 1990 Jun;17(3):149–54 (Eng. Abstr.) **(Ger)**

DRUG INDUSTRY

Mectizan donation and the Mectizan Expert Committee. Dull HB. **Acta Leiden** 1990;59(1–2):399–403
Drug products of recombinant DNA technology. Black WJ. **Am J Hosp Pharm** 1989 Sep;46(9):1834–44 (34 ref.)
Rare diseases: identifying needs. Report of the National Commission on Orphan Diseases. Groft SC. **Am Pharm** 1990 Apr;NS30(4):33–40
Physicians and the pharmaceutical industry [letter] **Ann Intern Med** 1990 Sep 1;113(5):407–8
Physicians and the pharmaceutical industry. American College of Physicians. **Ann Intern Med** 1990 Apr 15; 112(8):624–6
Review of reviews. Way EL. **Annu Rev Pharmacol Toxicol** 1990;30:751–61
Drug representatives [letter; comment] McKinnon N, et al. **Aust Fam Physician** 1990 Mar;19(3):416–7 Comment on: Aust Fam Physician 1989 Sep;18(9):1043.
Chemical industry: toward harmony with the environment. Knüsli E. **Biomed Environ Sci** 1988 Jun;1(1):34–41
Novel medicines marketed in the UK (1960–87). Lis Y, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):333–43
"Disinformation" from pharmaceutical company representatives [letter] **Can Med Assoc J** 1990 Sep 1; 143(5):370
"Disinformation" from pharmaceutical company representatives [letter] Gordon M. **Can Med Assoc J** 1990 Jun 1;142(11):1177–8
The ethics of accepting "free" gifts at conventions [editorial] Rosner F. **Cancer Invest** 1989;7(3):295–6
The American Society for Clinical Pharmacology and Therapeutics and the pharmaceutical industry. Abrams WB. **Clin Pharmacol Ther** 1990 Feb;47(2):282–6
Changes in penicillin contamination and allergy in factory workers. Møller NE, et al. **Contact Dermatitis** 1990 Feb; 22(2):106–7
Contact allergy in the pharmaceutical industry. Rudzki E, et al. **Contact Dermatitis** 1989 Aug;21(2):121–2
FDA's compassion for desperate drug companies. Annas GJ. **Hastings Cent Rep** 1990 Jan–Feb;20(1):35–7
Do consumer drug ads undercut HMO gatekeepers? Larkin H. **Hospitals** 1989 Oct 5;63(19):61, 64
A proposal for multinational development of new drugs. Frohlich ED. **Hypertension** 1989 Oct;14(4):458–9
CME ethics, continued. Caplan RM. **Iowa Med** 1990 Mar; 80(3):135
Medical education and the pharmaceutical industry [editorial] Salem AG. **J Gen Intern Med** 1990 Jan–Feb;5(1):91–2
Occupational Medicine Forum. Anstadt GW. **J Occup Med** 1989 Dec;31(12):955–6
Doctors, drug companies, and gifts [letter] [published erratum appears in JAMA 1990 Jul 18;264(3):338] [comment] **JAMA** 1990 Apr 25;263(16):2177–9 Comment on: JAMA 1989 Dec 22–29;262(24):3448–51.
The borrowed imagery of boxing [letter] Enzenauer RW. **JAMA** 1990 Sep 26;264(12):1531–2
Attitudes of internal medicine faculty and residents toward professional interaction with pharmaceutical sales representatives. McKinney WP, et al. **JAMA** 1990 Oct 3; 264(13):1693–7
Survey indicates 133 orphan drug products in development for 96 relatively rare disorders [news] Marwick C. **JAMA** 1989 Oct 27;262(16):2196
A piece of my mind. A snorkel, a 5-iron, and a pen. Nelson JC. **JAMA** 1990 Aug 8;264(6):742
From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Feb 9;263(6):793
Investigational new drug (US) 'orphan' trials now use thalidomide from two sources [news] Randall T. **JAMA** 1990 Mar 16;263(11):1474
Principles of educational outreach ('academic detailing') to improve clinical decision making. Soumerai SB, et al. **JAMA** 1990 Jan 26;263(4):549–56
Potentially allergenic airborne particles in the vicinity of a yeast and penicillin production plant. Preller L, et al. **JAPCA** 1989 Aug;39(8):1094–7
Cytogenetic monitoring of chemical workers in production of the drug 1-propoxy-2-acetamino-4-nitrobenzol with reference to their smoking habits. Tanner B, et al. **Mutat Res** 1990 Jul;241(3):291–5
Human growth hormone is not an orphan [letter] **N Engl J Med** 1989 Oct 19;321(16):1124–5
Relations between physicians and pharmaceutical companies: where to draw the line [letter] [see comments] Jenike MA. **N Engl J Med** 1990 Feb 22;322(8):557 Comment in: N Engl J Med 1990 Jul 19;323(3):200–1.
Voluntary control of drug promotion in Sweden. Perman E. **N Engl J Med** 1990 Aug 30;323(9):616–7
Relations between physicians and pharmaceutical companies; where to draw the line [letter; comment] Schonberg SE. **N Engl J Med** 1990 Jul 19;323(3):200–1 Comment on: N Engl J Med 1990 Feb 22;322(8):557.
More on sex and racial bias in pharmaceutical advertisements [letter; comment] Tietze KJ, et al. **N Engl J Med** 1990 May 24;322(21):1534 Comment on: N Engl J Med 1988 Jul 7;319(1):57–8.
For the price of a pen [letter; comment] McLauchlan B. **N Z Med J** 1990 May 23;103(890):250 Comment on: N Z Med J 1990 Mar 28;103(886):135.
For the price of a pen! [letter; comment] Murdoch JC. **N Z Med J** 1990 Apr 25;103(888):190 Comment on: N Z Med J 1990 Mar 28;103(886):135.
Pre-publicity [editorial] **Nature** 1990 Jun 14;345(6276):560
Biotechnology. Little apparent interest in Celltech sell-off. Aldhous P. **Nature** 1990 May 10;345(6271):102
Molecular biology: Squibb builds new laboratory [news] Coles P. **Nature** 1989 Oct 5;341(6241):376
Greens losing gene battle [news] Dickman S. **Nature** 1990 Aug 16;346(6285):601
Orphan Drug Act. Winners to keep all [news] Gershon D. **Nature** 1990 Jun 28;345(6278):759
Genentech shares. Allegation of insider dealing [news] Gershon D. **Nature** 1990 May 10;345(6271):102
Biotechnology patents. Genentech wins round two [news] Gershon D. **Nature** 1990 Apr 19;344(6268):692
Biotechnology: Wellcome drops TPA [news] Gershon D. **Nature** 1990 May 17;345(6272):194
Japanese/US joint venture announced [news] Gershon D. **Nature** 1990 May 24;345(6273):281
Contamination of clandestinely prepared drugs with synthetic by-products. Soine WH. **NIDA Res Monogr** 1989;95:44–50 (33 ref.)
Concerns expressed about PATH program [letter] Moskowitz C, et al. **Nurse Pract** 1989 Nov;14(11):9
The physician and the pharmaceutical industry: can there be ethics? Carlson MJ. **Ohio Med** 1990 Jun;86(6):456–8
Conversation piece—the pharmaceutical medicine doctor [interview by P. D. Welsby] Bax RP. **Postgrad Med J** 1989 Oct;65(768):799–800
Orphan Drug Act [letter] **Science** 1990 Jul 27;249(4967):346–7
Venture capitalists push designer drug start-ups [news] Gibbons A. **Science** 1990 Aug 17;249(4970):733–4
Responsiveness to physicians' requests for information concerning drug interactions: a comparison of brand and generic companies. Thomas M, et al. **Soc Sci Med** 1990; 31(2):153–7
Antibiotic resistance in the tropics. 3. Medical responsibilities of the pharmaceutical industry with respect to use of antibiotics in the tropics [published erratum appears in Trans R Soc Trop Med Hyg 1989 Jul–Aug;83(4):559]. Salter AJ, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb; 83(1):45–8 (15 ref.)
[1992: pills without limits?] Offerhaus L. **Ned Tijdschr Geneeskd** 1990 Apr 21;134(16):821–7 **(Dut)**
[A survey: the forgotten dentist (interview by Johan Boone)] Lissens J. **Rev Belge Med Dent** 1990;45(1):55–62 **(Fre)**
[Ecotoxicology exemplified by an analysis of the chemical spill into the caused Rhine by Sandoz in Basel] Güttinger H, et al. **Naturwissenschaften** 1990 Jun;77(6):253–61 (Eng. Abstr.) **(Ger)**
[Correlation between air pollution and respiratory morbidity in children at Dorog] Dávid A, et al. **Orv Hetil** 1990 Mar 11;131(10):513–7 (26 ref.) (Eng. Abstr.) **(Hun)**
[Physicians' contact with the drug industry. An interview among general practitioners] Husby T, et al. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1237–9 (Eng. Abstr.) **(Nor)**
[Synonymous preparations—good for the Norwegian health services (letter)] Paulsen S, et al. **Tidsskr Nor Laegeforen** 1990 Jun 10;110(15):1987–8 **(Nor)**
[Studies of lysozyme activity in the saliva of workers in the drug industry] Zajączkowska-Białowąs L, et al. **Med Pr** 1989;40(5):321–7 (Eng. Abstr.) **(Pol)**
[Occupational allergy in the production of drugs] Rembadel P, et al. **Pol Tyg Lek** 1990 Jan 22–29;45(4–5):82–4 (Eng. Abstr.) **(Pol)**
[Contact allergy caused by drug handling] Rudzki E, et al. **Przegl Dermatol** 1990 Jan–Feb;77(1):1–5 **(Pol)**
[Sonochemical destruction of pollution of industrial waste waters] Agranonik IaR, et al. **Antibiot Khimioter** 1990 Feb; 35(2):48–51 **(Rus)**
[Enzymatic hydrolysis of mycelial waste from the production of tetracycline] Ponomareva LV, et al. **Antibiot Khimioter** 1990 Apr;35(4):42–5 (Eng. Abstr.) **(Rus)**
[Use of mycelial waste from the drug industry] Ponomareva LV, et al. **Antibiot Khimioter** 1990 Feb;35(2):43–6 (Eng. Abstr.) **(Rus)**
[Effect of carbohydrates on possible utilization of wastes from antibiotic-manufacturing plants in the construction industry] Tarakanov OV, et al. **Antibiot Khimioter** 1989 Aug;34(8):606–9 (Eng. Abstr.) **(Rus)**
[Principles of treatment of occupational diseases caused by antibiotics] Penknovich AA, et al. **Gig Tr Prof Zabol** 1990; (6):48–51 (Eng. Abstr.) **(Rus)**
[Orphan drugs—competing for a better name in Sweden] Karlsson Y. **Lakartidningen** 1990 Feb 28;87(9):658 **(Swe)**

ECONOMICS

Speaking out against freebies [letter] Kennelly W. **Am J Hosp Pharm** 1989 Oct;46(10):2001
An unsavory concoction [editorial] Zellmer WA. **Am J Hosp Pharm** 1990 Apr;47(4):783
Drug company "honoraria" [letter] Reynolds MD. **Arthritis Rheum** 1989 Nov;32(11):1490
Doctors and detailers: therapeutic education or pharmaceutical promotion? Lexchin J. **Int J Health Serv** 1989;19(4):663–79
Doctors, drug companies, and gifts [see comments] Chren MM, et al. **JAMA** 1989 Dec 22–29;262(24):3448–51 Comment in: JAMA 1990 Apr 25;263(16):2177–9.
Lag between discovery and production of new vaccines for the developing world. Dupuy JM, et al. **Lancet** 1990 Sep 22;336(8717):733–4
Drug economics in developing countries [letter] [published erratum appears in Lancet 1990 Mar 17;335(8690):674] Litvack JI, et al. **Lancet** 1990 Jan 6;335(8680):61
For the price of a pen! [letter; comment] Thomson A. **N Z Med J** 1990 Jun 13;103(891):278–9 Comment on: N Z Med J 1990 Mar 28;103(886):135.
For the price of a pen! [letter] [see comments] Thomson A. **N Z Med J** 1990 Mar 28;103(886):135 Comment in: N Z Med J 1990 Apr 25;103(888):190. Comment in: N Z Med J 1990 May 23;103(890):250. Comment in: N Z Med J 1990 Jun 13;103(891):278–9.
Biotechnology eclipsed? [editorial] [see comments] **Nature** 1990 Feb 8;343(6258):494 Comment in: Nature 1990 Apr 19;344(6268):698. Comment in: Nature 1990 Jun 21;345(6277):658.
Biotechnology. Mixed reactions to merger [news] Gershon D. **Nature** 1990 Feb 22;343(6260):681
Drug legislation. Drug companies divided [news] Gershon D. **Nature** 1990 May 3;345(6270):6
Swiss company takes a 60 per cent stake in Genentech [news] Gershon D. **Nature** 1990 Feb 8;343(6258):495
The cholesterol wars [letter] [see comments] Lach RD. **Ohio Med** 1990 Mar;86(3):164–5 Comment in: Ohio Med 1990 May;86(5):340–1.
Roerig extends antibiotic guarantee [news] **Oncology (Williston Park)** 1990 Feb;4(2):34
Billion-dollar orphans: prescription for trouble [news] Gibbons A. **Science** 1990 May 11;248(4956):678–9
Human genome project: who will pay? [letter] Siekevitz P. **Science** 1989 Dec 8;246(4935):1236
Cost of pharmaceutical company mergers [letter] McCaig J. **Vet Rec** 1990 Apr 7;126(14):340–1
[Drug research and insurance medicine] Arndts D, et al. **Versicherungsmedizin** 1990 Feb 1;42(1):28–31 (Eng. Abstr.) **(Ger)**
[Current problems in assessing drug prices] Lucioni C. **Medicina (Firenze)** 1989 Oct–Dec;9(4):429–36 (Eng. Abstr.) **(Ita)**
[The cheapest synonymous preparations—a suggestion with unwanted consequences. Original preparations and other copies (letter)] Eriksen J. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2710–1 **(Nor)**
[The cheapest synonymous preparations—a proposal with unwanted consequences (letter)] Rytter E. **Tidsskr Nor Laegeforen** 1989 Nov 20;109(32):3359–60 **(Nor)**

HISTORY

History and philosophy of Bayer pharmaceutical research. Busse WD. **Arzneimittelforschung** 1989 Aug;39(8A):935–7
Paul Ehrlich as a commercial scientist and research administrator. Liebenau J. **Med Hist** 1990 Jan;34(1):65–78

LEGISLATION & JURISPRUDENCE

Let's have "ozone-friendly" pharmaceutical products [letter] McIvor RA. **Can Med Assoc J** 1990 Apr 1;142(7):705
FDA regulations and guidelines. Rothschild A. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):26–9
Horse chestnut seed extract [letter; comment] Beck M. **Lancet** 1990 Jun 16;335(8703):1467 Comment on: Lancet 1990 Mar 31;335(8692):788.
Haemophilic AIDS patient loses claim in Australia [news] Brahams D. **Lancet** 1990 Jul 28;336(8709):238–9
Secrecy and product liability litigation. Brahams D. **Lancet** 1990 Sep 22;336(8717):737–8
Medical-legal analysis and considerations in product liability cases involving pharmaceutical companies. Woodside FC 3d, et al. **Leg Med** 1989;:125–43 (57 ref.)
Biotechnology patent disputes. Amgen plays for time [news] Gershon D. **Nature** 1990 Apr 26;344(6269):800
Biotechnology patent disputes. Market machinations [news] Gershon D. **Nature** 1990 Apr 26;344(6269):800

METHODS

Prescribing pressure [letter] Krasner DM. **Del Med J** 1990 May;62(5):1029

ORGANIZATION & ADMINISTRATION

Rational approach to Clozaril distribution [letter] **Am Pharm** 1990 Jun;NS30(6):7
New guidelines expected in 1991 for relationship of continuing education, financial support [news] Randall T. **JAMA** 1990 Sep 5;264(9):1080
Leading biotechnology companies quit the IBA [news] Gershon D. **Nature** 1990 Apr 5;344(6266):481
[A standard computer system for management of production] Camurati P. **Boll Chim Farm** 1987 Jan;126(1):25–31 (Eng. Abstr.) **(Ita)**

STANDARDS

Quality of drug information service provided by pharmaceutical manufacturers [letter] Doyal LE. **Am J Hosp Pharm** 1990 May;47(5):1014
A pharmaceutical manufacturer's perspective on reporting adverse drug experiences. Sullivan JW. **Am J Hosp Pharm** 1990 Jun;47(6):1342–5
Occupational exposure limits for therapeutic substances. Agius R. **Ann Occup Hyg** 1989;33(4):555–62 (29 ref.)
Promotion by the British pharmaceutical industry, 1983–8: a critical analysis of self regulation. Herxheimer A, et al. **BMJ** 1990 Feb 3;300(6720):307–11
Rational limits for drug impurities. Hubert BB. **Drug Saf** 1990; 5 Suppl 1:88–94 (18 ref.)
Standardisation and validation of analytical methods in the pharmaceutical industry. Rampazzo P. **Farmaco** 1990 Jun; 45(6 Suppl):807–15 (14 ref.)
European registration: today, tomorrow, and beyond. Currie WJ. **J Clin Pharmacol** 1990 May;30(5):386–9
Current practices in endotoxin and pyrogen testing in biotechnology. The Quality Assurance/Quality Control Task Group. Parenteral Drug Association. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):39–45
Determination of the particulate content of LVP using different test methods. Health Industry Manufacturer's Association. **J Parenter Sci Technol** 1989 Sep–Oct; 43(5):200–3
Overview of the stability and handling of recombinant protein drugs. Geigert J. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):220–4
PDA's global role [editorial] Korczynski MS. **J Parenter Sci Technol** 1990 May–Jun;44(3):111–2
Highlights of Good Manufacturing Practice in Japan. Morita K. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):35–8
Kickback kickoff [editorial] Gray DE. **Kans Med** 1989 Dec; 90(12):328
Advertising acyclovir [letter] Anderton D. **Lancet** 1990 Feb 3;335(8684):288
Drug companies' evidence to justify advertising [see comments] Wade VA, et al. **Lancet** 1989 Nov 25; 2(8674):1261–3 Comment in: Lancet 1990 Mar 17;335(8690):667–8.
Pharmaceutical promotion. Harvey K. **Med J Aust** 1990 Jan 15;152(2):57–8
The acceptable face of international competition. Stereophobia: an economic afterthought [letter] Ariëns EJ. **Trends Pharmacol Sci** 1988 Sep;9(9):317
[A computerized weighing system for the pharmaceutical industry: philosophy, realization and validation] Feroci M, et al. **Boll Chim Farm** 1987 Jan;126(1):20–4 (Eng. Abstr.) **(Ita)**
[Substantiation of hygienic standard of lincomycin in the air of the work area] Anufrieva RK, et al. **Antibiot Khimioter** 1990 Feb;35(2):40–3 (Eng. Abstr.) **(Rus)**
[A spectrophotometric method of analysis of fusidic acid] Satarova DE, et al. **Antibiot Khimioter** 1989 Aug; 34(8):566–9 (Eng. Abstr.) **(Rus)**
[Medicinal plants as objects of hygienic monitoring] Listov SA. **Gig Sanit** 1989 Dec;(12):89–90 **(Rus)**
[Gas-chromatographic analysis of herbicide residues in medicinal raw materials] Lopatykhin EIu, et al. **Gig Sanit** 1989 Jun;(6):47–9 **(Rus)**
[Working conditions in the production of synthetic vitamin B 2] Kaptsov VA, et al. **Gig Tr Prof Zabol** 1990;(1):38–40 **(Rus)**
[Occupational health in water-soluble vitamin production plants] Nemchinov NN. **Gig Tr Prof Zabol** 1989;(11):1–4 (Eng. Abstr.) **(Rus)**

STATISTICS & NUMERICAL DATA

Perception of the role of medical-service representatives in hospitals. Santell JP, et al. **Am J Hosp Pharm** 1990 Jun; 47(6):1354–9
Pharmaceutical representatives in academic medical centers: interaction with faculty and housestaff. Lurie N, et al. **J Gen Intern Med** 1990 May–Jun;5(3):240–3

TRENDS

Increasing number of biotechnology products near marketing, PMA survey shows [news] **Clin Pharm** 1990 Jun;9(6):408
[Strategic profile of a firm operating in the pharmaceutical field] Rotondi V. **Boll Chim Farm** 1987 Jan;126(1):3–19 (Eng. Abstr.) **(Ita)**
[An interview with Dr. D. Poggiolini, director of the Pharmaceutical Service of the Health Ministry and the Drug Committee of the EEC (interview by Giuseppe Lojacono)] Poggiolini D. **Epidemiol Prev** 1988 Dec;10(37):9 **(Ita)**
[New trends in studies of the pharmacologic activity of microbial metabolites] Chmiel A. **Postepy Hig Med Dosw** 1989;43(1):119–60 (126 ref.) (Eng. Abstr.) **(Pol)**
[Current problems of production and rational use of antibiotics] Navashin SM. **Antibiot Khimioter** 1989 Nov; 34(11):803–7 **(Rus)**

DRUG INFORMATION SERVICES

A physician's guide to information available from the FDA about new drug approvals. The ACG Committee on FDA-related matters. American College of Gastroenterology. Hassall TH, et al. **Am J Gastroenterol** 1989 Oct;84(10):1222–6
Development and implementation of clinical pharmacokinetic services. Burkle WS. **Am J Hosp Pharm** 1990 Feb;47(2):391–4
Benefits of an integrated hospital information system [letter] Clutcher BB, et al. **Am J Hosp Pharm** 1990 Apr; 47(4):779–80
Role of a drug information center in the medical audit process. Ginsburg DB, et al. **Am J Hosp Pharm** 1990 Jul; 47(7):1594–5
Information on drug use during pregnancy and lactation [letter] James A. **Am J Hosp Pharm** 1990 May;47(5):1017
APHA/USA today. Pharmacy hot line 'huge success'. Martin S. **Am Pharm** 1989 Oct;NS29(10):22
Drug information skills for pharmacy students: curriculum integration. Wood EH, et al. **Bull Med Libr Assoc** 1990 Jan;78(1):8–14
Teaching medical residents critical analysis of pharmaceutical promotional material. Ferguson RP. **Del Med J** 1990 Jul; 62(7):1127–9
Comment: additional foreign drug identification [letter; comment] Thompson DF. **DICP** 1989 Oct;23(10):815 Comment on: DICP 1989 Jun;23(6):501–6.
Drug information for family doctors—is an informal style acceptable? [letter] McGavock H, et al. **J R Coll Gen Pract** 1989 Mar;39(320):121
Responsiveness to physicians' requests for information concerning drug interactions: a comparison of brand and generic companies. Thomas M, et al. **Soc Sci Med** 1990; 31(2):153–7
[Information on the composition of chemical preparations for sale on the Belgian market] **Arch Belg** 1988; 46(7–8):389–95 **(Fre)**
[Hepatotoxicity of drugs. Update of a data bank of hepatic involvement and responsible drugs] Biour M, et al. **Gastroenterol Clin Biol** 1990;14(3):263–77 **(Fre)**
[Written information on prescribed drugs provided by pharmacies] Andrew M, et al. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2900–1 **(Nor)**
[Change of insulin strength in Norway—a study of an information campaign] Eggen AE, et al. **Tidsskr Nor Laegeforen** 1990 May 30;110(14):1858–60 (Eng. Abstr.) **(Nor)**
[Pharmacies' information pamphlets—what use are they to the patients?] Strøm SB. **Tidsskr Nor Laegeforen** 1990 Feb 28;110(6):729–31 (Eng. Abstr.) **(Nor)**
[Pharmacies' information pamphlets—do physicians know about them?] Strøm SB. **Tidsskr Nor Laegeforen** 1990 Feb 28;110(6):732–3 (Eng. Abstr.) **(Nor)**
[Drug treatment of hypercholesterolemia. Confusing discrepancies in guidelines of an advertising campaign] Bondjers G, et al. **Lakartidningen** 1990 Jun 20;87(25):2171 **(Swe)**
[Non-registered preparations—the way to find information] Westman-Naeser S, et al. **Lakartidningen** 1989 Nov 15; 86(46):3978 **(Swe)**
[Scandinavian drug cooperation, information and the European Economic Community] Janzon U. **Nord Med** 1989;104(12):336 **(Swe)**

INSTRUMENTATION

["MicroVADEMECUM" program as an attempt to use AMSTRAD CPC 6128 for supporting the decisions regarding drug selection in antibiotic therapy] Siwiński J, et al. **Pediatr Pol** 1989 Oct–Dec;64(10–12):649–53 **(Pol)**

LEGISLATION & JURISPRUDENCE

[Additional information] Kircher W. **Med Monatsschr Pharm** 1990 Jan;13(1):1 **(Ger)**

ORGANIZATION & ADMINISTRATION

Relationship between a state Medicaid formulary committee and a university-based drug information center. Chyka PA, et al. **Am J Hosp Pharm** 1990 Mar;47(3):600–1
Implementing and maintaining a private pharmacokinetics practice. Murphy JE, et al. **Am J Hosp Pharm** 1990 Mar; 47(3):591–7
Improving access to computer-based library and drug information services in patient-care areas. Tobia RC, et al. **Am J Hosp Pharm** 1990 Jan;47(1):137–42
Hospital nurses' use of and satisfaction with sources of drug-related information. Wolfgang AP, et al. **Am J Hosp Pharm** 1989 Oct;46(10):2052–3
Drug information centers as bases for continuing education programs in Kuwait. Tarifi HA, et al. **DICP** 1990 Jul–Aug; 24(7–8):769–71
Prescription information leaflets: a national survey. Gibbs S, et al. **J R Soc Med** 1990 May;83(5):292–7
Patient information leaflets—the state of the art. Kitching JB. **J R Soc Med** 1990 May;83(5):298–300
Analysis of physicians', pharmacists', and nurses' attitudes toward the use of computers to access drug information. Shumway JM, et al. **Methods Inf Med** 1990 Mar; 29(2):99–103
The right prescription for GPs? [editorial] Ball D. **Practitioner** 1989 May 8;233(1468):629
[Detection of drug side effects at the Heidelberg Medical Clinic] Jacubeit T, et al. **Verh Dtsch Ges Inn Med** 1989; 95:690–3 **(Ger)**
[Comprehensive detection of severe, potentially life-threatening drug side effects] Schönhöfer PS, et al. **Verh Dtsch Ges Inn Med** 1989;95:687–90 **(Ger)**
[The information system "Interactions of drugs" and its role in drug therapy] Moshkova LV, et al. **Sov Zdravookhr** 1990; (2):26–8 (Eng. Abstr.) **(Rus)**
[International WHO scientific programs concerning biological psychiatry and psychopharmacology (review of the literature)] Vartanian FE, et al. **Zh Nevropatol Psikhiatr** 1990;90(1):146–50 (24 ref.) **(Rus)**
[Development of a drug information registry system in Mexico] Ortiz A. **Bol Of Sanit Panam** 1989 Dec; 107(6):523–30 (Eng. Abstr.) **(Spa)**

STANDARDS

Quality of drug information service provided by pharmaceutical manufacturers [letter] Doyal LE. **Am J Hosp Pharm** 1990 May;47(5):1014
Revising a drug information center quality assurance program to conform to Joint Commission standards. Moody ML. **Am J Hosp Pharm** 1990 Apr;47(4):792–4
External quality assurance committee for drug information services. Smith CJ, et al. **Am J Hosp Pharm** 1990 Apr; 47(4):787–91
Problems encountered in using written criteria to assess drug information responses. Wheeler-Usher DH, et al. **Am J Hosp Pharm** 1990 Apr;47(4):795–7
Assessing the quality of pharmacist answers to telephone drug information questions. Woodward CT, et al. **Am J Hosp Pharm** 1990 Apr;47(4):798–9

SUPPLY & DISTRIBUTION

[What do health care institutions do to inform the aged and train them in the correct use of drugs?] Nilsen R, et al. **Tidsskr Nor Laegeforen** 1990 Apr 30;110(11):1339–41 (Eng. Abstr.) **(Nor)**

TRENDS

DUE by 'audit' nurses [letter] [see comments] Sawicki SH. **Am Pharm** 1989 Nov;NS29(11):6 Comment in: Am Pharm 1990 Feb;NS30(2):3.
A 10-year review of the Teaching Hospital-Based National Drug and Toxicology Information Service in Zimbabwe. Kasilo OJ, et al. **J Clin Pharm Ther** 1989 Oct;14(5):355–71
Patient information—the present and the future. Wells FO. **J R Soc Med** 1990 May;83(5):300–2
[30 years' spontaneous recording systems of German physicians—results and experiences] Kimbel KH. **Verh Dtsch Ges Inn Med** 1989;95:683–6 **(Ger)**

UTILIZATION

Doctors and detailers: therapeutic education or pharmaceutical promotion? Lexchin J. **Int J Health Serv** 1989;19(4):663–79

[Therapeutic consultation: information oriented to clinical problems] Rodríguez C, et al. **Rev Clin Esp** 1989 Nov; 185(8):409–14 (Eng. Abstr.) (Spa)

DRUG INFUSION SYSTEMS see **INFUSION PUMPS**

DRUG INSURANCE see **INSURANCE, PHARMACEUTICAL SERVICES**

DRUG INTERACTIONS

Potential adverse drug interactions in the emergency room. An issue in the quality of care. Beers MH, et al. **Ann Intern Med** 1990 Jan 1;112(1):61–4

Drug interactions in anaesthesia. Grogono AW. **Br J Anaesth** 1974 Aug;46(8):613–8 (38 ref.)

Method for assessing the probability of toxicity from drug interactions having a pharmacokinetic basis. Sullivan TJ, et al. **Clin Pharm** 1990 Feb;9(2):136–9

A Prolog knowledge base for drug interactions. Gardner D, et al. **Comput Biomed Res** 1990 Apr;23(2):139–52

Health implications of drug interactions. Dukes MN. **Drug Saf** 1990;5 Suppl 1:84–7 (6 ref.)

Studies with two investigational interventions: a simple model to assess their effects and interaction. de Mey C, et al. **Int J Clin Pharmacol Res** 1989;9(5):297–303

Mainframe computer screens for drug/nutrient interactions [news] **J Am Diet Assoc** 1990 Jul;90(7):927, 930–1

Fluoxetine drug–drug interactions. II. Ciraulo DA, et al. **J Clin Psychopharmacol** 1990 Jun;10(3):213–7 (40 ref.)

Drug interactions in older adults. Coons SJ, et al. **J Ky Med Assoc** 1990 Mar;88(3):130–3

Isobolographic characterization of drug interactions incorporating biological variability. Gennings C, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):208–17

Statistical modeling of the effects of drug combinations. Plummer JL, et al. **J Pharmacol Methods** 1990 Jul; 23(4):297–309

Subcutaneous drug compatibility in palliative care [letter] Regnard CF, et al. **Lancet** 1989 Oct 28;2(8670):1044–5

Statistical analysis of drug–drug and site–site interactions with isobolograms. Tallarida RJ, et al. **Life Sci** 1989; 45(11):947–61 (23 ref.)

Polypharmacy in the elderly [letter] Mant A, et al. **Med J Aust** 1990 Jun 4;152(11):613

Drug interactions in the elderly. How multiple drug use increases risk exponentially. Cadieux RJ. **Postgrad Med** 1989 Dec;86(8):179–86 (14 ref.)

Responsiveness to physicians' requests for information concerning drug interactions: a comparison of brand and generic companies. Thomas M, et al. **Soc Sci Med** 1990; 31(2):153–7

[Effects of preoperative and postoperative drugs on anesthesia] Laroche MA, et al. **Annee Ther Clin Ophtalmol** 1988;39:57–72; discussion 73–92 (Fre)

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1989 Nov–Dec;44(6):433–4 (Fre)

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1990 Jan–Feb;45(1):47–51 (Fre)

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1990 May–Jun;45(3):224–7 (Fre)

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1989 Sep–Oct;44(5):372–4 (Fre)

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1989 May–Jun;44(3):248–54 (Fre)

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1989 Jul–Aug;44(4):315–8 (Fre)

[Drug interactions encountered by the dental practitioner] Sternon J. **Rev Belge Med Dent** 1989;44(4):13–20 (Eng. Abstr.) (Fre)

[Interactions between alcohol and drugs] Mørland J. **Tidsskr Nor Laegeforen** 1990 Mar 30;110(9):1106–10 (Eng. Abstr.) (Nor)

[The information system "Interactions of drugs" and its role in drug therapy] Moshkova LV, et al. **Sov Zdravookhr** 1990; (2):26–8 (Eng. Abstr.) (Rus)

[Drug interactions in combination pharmacotherapy] Skorobogatyĭ AM. **Vrach Delo** 1990 May;(5):92–4 (Eng. Abstr.) (Rus)

[Drug interactions: mechanisms and clinical significance] Beleslin DB. **Srp Arh Celok Lek** 1989 May–Jun; 117(5–6):389–412 (Sec)

DRUG KINETICS see **PHARMACOKINETICS**

DRUG LABELING

Warnings in use of cefotetan [letter] Pocelinko RM. **Am J Obstet Gynecol** 1990 Jan;162(1):296–7

Package insert–stuffer, guide or autocrat? [editorial] **Can Med Assoc J** 1968 Aug 24–31;99(8):377–9

Identity of hydrofluoric acid product [letter; comment] Sherman NE. **Clin Pharm** 1989 Oct;8(10):690 Comment on: Clin Pharm 1989 Jul;8(7):516–8.

Weiss wants extra–label use policy eliminated [news] Gloyd JS. **J Am Vet Med Assoc** 1990 Mar 15;196(6):838–9

FDA reevaluating labeling policy for dually classified drugs [news] Raef TA. **J Am Vet Med Assoc** 1990 Jun 1; 196(11):1743–4

Cyanoacrylate nail glue mistaken for eye drops [letter] DeRespinis PA. **JAMA** 1990 May 2;263(17):2301

From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Aug 8;264(6):677

[The determination of the information potential of characterization of drug preparations] Baumann D, et al. **Pharmazie** 1989 Oct;44(10):716–9 (Eng. Abstr.) (Ger)

[Orphan drugs—competing for a better name in Sweden] Karlsson Y. **Lakartidningen** 1990 Feb 28;87(9):658 (Swe)

LEGISLATION & JURISPRUDENCE

Liability of dispensing to an inpatient an estrogenic drug without a patient package insert. Brushwood DB. **Am J Hosp Pharm** 1990 Aug;47(8):1804–6

Labelling cosmetics with their ingredients. de Groot AC. **BMJ** 1990 Jun 23;300(6740):1636–8

FDA's position on the clozaril patient management system. Peck CC. **Hosp Community Psychiatry** 1990 Aug; 41(8):876–7

METHODS

Effects of labeling techniques on memory and comprehension of prescription information in young and old adults. Morrell RW, et al. **J Gerontol** 1990 Jul;45(4):P166–72

STANDARDS

Descriptive labeling may reduce prescription errors [letter] Falbe WJ, et al. **Am J Hosp Pharm** 1989 Dec; 46(12):2459–60

Comment: foreign drug identification [letter] Blais D. **DICP** 1989 Dec;23(12):1036–7

Comment: additional foreign drug identification [letter; comment] Thompson DF. **DICP** 1989 Oct;23(10):815 Comment on: DICP 1989 Jun;23(6):501–6.

What is wrong with vaccine literature inserts? Shrestha R. **Indian J Pediatr** 1989 May–Jun;56(3):321–5

Misuse of antidiarrhoeal medicines [news] **Lancet** 1989 Oct 21;2(8669):995

The case for introducing "standard drinks" labels on all alcohol containers [letter] Stockwell T, et al. **Med J Aust** 1990 Jul 2;153(1):61–2

[Patient–oriented package inserts for drugs. Historical overview and current status] Van Haecht CH, et al. **Arch Belg** 1989;47(5–6):230–55 (162 ref.) (Eng. Abstr.) (Dut)

DRUG LAWS see **LEGISLATION, DRUG**

DRUG MODELING see **DRUG DESIGN**

DRUG PACKAGING

Stopper fragments: a technique for reducing their occurrence [letter] Morparia HK, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):659–60

Moisture loss from small–volume polyvinyl chloride containers removed from overwraps. Joseph JC, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1602–4

Stability of fentanyl citrate in glass and plastic containers and in a patient–controlled delivery system. Kowalski SR, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1584–7

Phenytoin overdose in neonate attributable to product packaging similarities [letter] Lombardi TP, et al. **Am J Hosp Pharm** 1989 Oct;46(10):1999–2000

Dangerous ampoule [letter] Myles P. **Anaesth Intensive Care** 1989 Nov;17(4):519

Damage to multidose vials [letter] Vernon J. **Anaesthesia** 1990 Jan;45(1):75–6

Hazards of unit dose artificial tear preparations [letter] Loeffler M, et al. **Arch Ophthalmol** 1990 May;108(5):639–40

Superglue inadvertently used as eyedrops [letter; comment] Cromie BW. **BMJ** 1990 Mar 10;300(6725):680 Comment on: BMJ 1990 Feb 3;300(6720):328.

Superglue inadvertently used as eyedrops [letter] [see comments] Lyons C, et al. **BMJ** 1990 Feb 3;300(6720):328 Comment in: BMJ 1990 Mar 10;300(6725):680.

Inaccuracy in the doses of injectable medications dispensed from rubber–stoppered vials. Berger SA, et al. **Eur J Clin Pharmacol** 1989;37(1):91–4

Substandard infusion sets, inadequate transfusion sets, weak bottle hangers and missing spoons and droppers [letter] Kulkarni KB. **Indian Pediatr** 1989 Nov;26(11):1167–8

Capillary GC analysis of compounds leached into parenteral solutions packaged in plastic bags. Snell RP. **J Chromatogr Sci** 1989 Sep;27(9):524–8

A potential for cross–contamination within a dental school environment. Miller RC, et al. **J Dent Educ** 1990 Feb; 54(2):160–2

ESCA depth profiling studies of borosilicate glass containers. Borchert SJ, et al. **J Parenter Sci Technol** 1990 May–Jun; 44(3):153–82

Computer interface for vial sealing force measurements. Joyce MA, et al. **J Parenter Sci Technol** 1990 Mar–Apr; 44(2):54–7

Pyrogens in small–volume parenterals prepared in hospital pharmacy. Lacasa C, et al. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):246–9

Methods for predicting migration to packaged pharmaceuticals. Kim–Kang H, et al. **J Pharm Sci** 1990 Feb;79(2):120–3

Blister calendar packs for treatment of tuberculosis [letter] Valeza FS, et al. **Lancet** 1990 Feb 24;335(8687):473

Investigation of factors affecting adhesion of 99Tcm labelled colloids to glass vials. Elliott AT, et al. **Nucl Med Commun** 1990 May;11(5):375–81

Household survey of child–safe packaging for medications. Gulaid JA, et al. **Public Health Rep** 1990 Jul–Aug; 105(4):430–2

Prospective evaluation of "crack–vial" ingestions. Hoffman RS, et al. **Vet Hum Toxicol** 1990 Apr;32(2):164–7

[Opening medicine containers] Glerup E, et al. **Ugeskr Laeger** 1990 Jul 9;152(28):2047–50 (Eng. Abstr.) (Dan)

[Rapid analysis of plastic materials for pharmaceutic use] Baylocq D, et al. **Ann Pharm Fr** 1989;47(4):196–204 (Eng. Abstr.) (Fre)

[Transparency test for plastic containers] Mizumachi S, et al. **Eisei Shikenjo Hokoku** 1989;(107):94–9 (Eng. Abstr.) (Jpn)

[Intravenous (i.v.) fluid administration systems and incompatibility of injection] Kobo B. **Yakugaku Zasshi** 1990 Jan;110(1):1–15 (48 ref.) (Eng. Abstr.) (Jpn)

[Interaction between polyethylene films and bromhexine HCl in solid dosage forms. I. Effects of moisture contents in the solid dosage forms on the sorption of the drug] Kukita T, et al. **Yakugaku Zasshi** 1989 Dec;109(12):943–8 (Eng. Abstr.) (Jpn)

[Interaction between polyethylene films and brombexine HCl in solid dosage form. II. Effects of moisture property on the sorption of the drug] Kukita T, et al. **Yakugaku Zasshi** 1990 Feb;110(2):127–32 (Eng. Abstr.) (Jpn)

[Solutions for injection in plastic containers] Krasowska M. **Ann Univ Mariae Curie Sklodowska [Med]** 1985;40:77–81 (Eng. Abstr.) (Pol)

ECONOMICS

Reduced doxorubicin waste through use of multiple–dose vials [letter] Bressler LR, et al. **Am J Hosp Pharm** 1990 Apr;47(4):775, 779

METHODS

On white–coat effects and the electronic monitoring of compliance [editorial; comment] Feinstein AR. **Arch Intern Med** 1990 Jul;150(7):1377–8 Comment on: Arch Intern Med 1990 Jul;150(7):1509–10.

Automated particulate inspection systems: strategies and implications. Knapp JZ, et al. **J Parenter Sci Technol** 1990 Mar–Apr;44(2):74–107

[Opening medicine containers] Glerup E, et al. **Ugeskr Laeger** 1990 Jul 9;152(28):2047–50 (Eng. Abstr.) (Dan)

[Drug administration. References for storage and packaging] Kircher W. **Med Monatsschr Pharm** 1990 Apr;13(4):115–7 (0 ref.) (Ger)

[Solutions for injecting in plastic containers. II] Krasowska M. **Ann Univ Mariae Curie Sklodowska [Med]** 1985; 40:217–22 (Eng. Abstr.) (Pol)

STANDARDS

Light–resistance unit–of–use packaging needed [letter] Arrison CJ. **Am J Hosp Pharm** 1989 Oct;46(10):2000

Ampullary hypertrophy: malignant or benign? [letter; comment] **Anesth Analg** 1990 Apr;70(4):459–60 Comment on: Anesth Analg 1989 Jul;69(1):137–8.

The potential hazard of using multiple–dose heparin and insulin vials in continuous ambulatory peritoneal dialysis. Phillips G, et al. **J Hosp Infect** 1989 Aug;14(2):174–7

Validation technique for the filling operation of oxygen sensitive injectables. De Rudder D, et al. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):225–6

Ingestion of prescription drugs by children: an epidemiologic study. King WD, et al. **South Med J** 1989 Dec; 82(12):1468–71, 1478

DRUG POTENTIATION see **DRUG SYNERGISM**

DRUG PRECURSORS see **PRODRUGS**

DRUG RECALL see **LEGISLATION, DRUG**

DRUG RECEPTORS see **RECEPTORS, DRUG**

DRUG REGULATIONS see **LEGISLATION, DRUG**

DRUG RESIDUES

Waiting for the Food and Drug Administration to respond to its advisory committee's recommendations. Herrick JB. **J Am Vet Med Assoc** 1990 Jan 15;196(2):222–3

The role of food consumption factors in establishing drug tolerances. Benson R. **J Anim Sci** 1990 Mar;68(3):874–9 (5 ref.)

New food safety initiatives in the Food and Drug Administration. Fitzpatrick SC. **J Anim Sci** 1990 Mar; 68(3):870–3 (6 ref.)

New food safety initiatives in the Food Safety and Inspection Service, U.S. Department of Agriculture. Norcross MA, et al. **J Anim Sci** 1990 Mar;68(3):863–9 (32 ref.)

The practitioner's role and responsibility in residue avoidance. Sterner KE. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):615–39

Food safety [news] [see comments] **Vet Rec** 1990 Feb 10; 126(6):142–4 Comment in: Vet Rec 1990 Feb 17;126(7):177.

Redwater fever [letter] Rutter JM. **Vet Rec** 1990 Jul 28; 127(4):94–5

[Problems with malachite green use in fish] Kietzmann M, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Jul; 97(7):290–3 (Eng. Abstr.) **(Ger)**

[The food legislation evaluation of environmental chemicals in freshwater fish] Krüger KE. **DTW Dtsch Tierarztl Wochenschr** 1990 Jul;97(7):275–9 (6 ref.) (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Conference participants predict allergenic effects from veterinary drugs [news] **J Am Vet Med Assoc** 1990 Mar 15;196(6):851

Thoughts on sulfonamide residues [letter] Scott GC. **J Am Vet Med Assoc** 1990 Aug 1;197(3):298

An overview of food safety issues relative to animal products. Baile CA. **J Dairy Sci** 1990 Jun;73(6):1653–5 (8 ref.)

ANALYSIS

Toxicity and tissue residue depletion of levamisole hydrochloride in young goats. Babish JG, et al. **Am J Vet Res** 1990 Jul;51(7):1126–30

Detection of steroid hormone (estrogen) residues in imported red meat. Ateia MM, et al. **Arch Exp Veterinarmed** 1989; 43(4):567–71

National program on antibacterial residues in meat [news] Wild R. **Aust Vet J** 1990 Mar;67(3):N70

Fluoride residues in frozen foods fumigated with sulfuryl fluoride. Scheffrahn RH, et al. **Bull Environ Contam Toxicol** 1989 Dec;43(6):899–903

Chloramphenicol and oxytetracycline residues in milk and tissues from cows and bullocks treated with an injectable formulation. Guillot P, et al. **Food Addit Contam** 1989 Oct–Dec;6(4):467–73

Determination of ivermectin residues in swine tissues—an improved clean-up procedure using solid-phase extraction. Nordlander I, et al. **Food Addit Contam** 1990 Jan–Feb; 7(1):79–82

Case report: an investigation of chlortetracycline and oxytetracycline residues in suspect swine slaughtered in Manitoba, Canada, October 1987 to March 1988. Salisbury CD, et al. **Food Addit Contam** 1990 May–Jun;7(3):369–73

Ivermectin residues in the edible tissues of swine and cattle: effect of cooking and toxicological evaluation. Slanina P, et al. **Food Addit Contam** 1989 Oct–Dec;6(4):475–81

Case closed on milk residue issue, advisory group told [news] Gloyd JS. **J Am Vet Med Assoc** 1990 Jun 1;196(11):1741–3

Residue screening tests: a solution in search of a need? [news] Gloyd JS. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1686

FDA finds no residues in milk; Weiss doubtful [news] Gloyd JS. **J Am Vet Med Assoc** 1990 Mar 15;196(6):837–8

Sulfa residues in pork: an update. Augsburg JK. **J Anim Sci** 1989 Oct;67(10):2817–21 (8 ref.)

Sulfonamide residues in pork: past, present, and future. Cordle MK. **J Anim Sci** 1989 Oct;67(10):2810–6 (10 ref.)

Pork producers' views on the sulfamethazine issue. Meeker DL. **J Anim Sci** 1989 Oct;67(10):2822–5

Methodology for the analysis of benzimidazole anthelmintics as drug residues in animal tissues. Barker SA, et al. **J Assoc Off Anal Chem** 1990 Jan–Feb;73(1):22–5

Extraction methods for quantitation of gentamicin residues from tissues using fluorescence polarization immunoassay. Brown SA, et al. **J Assoc Off Anal Chem** 1990 May–Jun; 73(3):479–83

Liquid chromatographic determination of desfuroylceftiofur metabolite of ceftiofur as residue in cattle plasma. Jaglan PS, et al. **J Assoc Off Anal Chem** 1990 Jan–Feb;73(1):26–30

Sulfamethazine (sulfadimidine) residues in Canadian consumer milk. Larocque L, et al. **J Assoc Off Anal Chem** 1990 May–Jun;73(3):365–7

Multiresidue method for isolation and liquid chromatographic determination of seven benzimidazole anthelmintics in milk. Long AR, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct;72(5):739–41

Liquid chromatographic determination of epimerization of chlortetracycline residue to 4-epi-chlortetracycline residue in animal feed, using McIlvain's buffer as extractant. Martinez EE, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct; 72(5):848–50

Thin-layer chromatography/bioautography method for detection of monensin in poultry tissues. Vanderkop PA, et al. **J Assoc Off Anal Chem** 1989 Sep–Oct;72(5):735–8

On-line combination of dialysis and column-switching liquid chromatography as a fully automated sample preparation technique for biological samples. Determination of nitrofuran residues in edible products. Aerts MM, et al. **J Chromatogr** 1990 Feb 2;500:453–68

Improvement of chemical analysis of antibiotics. XVI. Simple and rapid determination of residual pyridonecarboxylic acid antibacterials in fish using a prepacked amino cartridge. Ikai Y, et al. **J Chromatogr** 1989 Aug 30; 477(2):397–406

Minimal transmission of zearalenone to milk of dairy cows. Prelusky DB, et al. **J Environ Sci Health [B]** 1990 Feb; 25(1):87–103

Sulfonamide residues in domestic animals. Bevill RF. **J Vet Pharmacol Ther** 1989 Sep;12(3):241–52 (33 ref.)

Injection and sampling methods for drug residue study in calf muscle. Takahashi Y, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):995–1001

Effects of oral and parenteral selenium supplements on residues in meat, milk and eggs. Beale AM, et al. **Rev Environ Contam Toxicol** 1990;115:125–50 (67 ref.)

Monitoring of chloramphenicol residues in muscle tissues by an immunoassay (La Carte test). Laurensen JJ, et al. **Vet Q** 1990 Apr;12(2):121–3

Antibiotic test failure after herd treatment with streptomycin [letter] Bardsley DH, et al. **Vet Rec** 1990 Jun 16; 126(24):609–10

Carry-over of sulphadimidine in the faeces and urine of pigs fed medicated feed. McCaughey WJ, et al. **Vet Rec** 1990 Apr 14;126(15):351–4

Reduction of sulphadimidine contamination in pig feedingstuffs. McCaughey WJ, et al. **Vet Rec** 1990 Feb 3; 126(5):113

Determination of milk withholding time in cattle following use of intramuscular lincomycin. Pearson A. **Vet Rec** 1989 Dec 9;125(24):601

Evaluation of certain veterinary drug residues in food. Thirty-fourth Report of the Joint FAO/WHO Expert Committee on Food Additives. **WHO Tech Rep Ser** 1989; 788:1–66 (107 ref.)

An automated HPLC determination of meticlorpindol in eggs with UV absorbance detection, using on-line dialysis and pre-concentration as sample clean-up; occurrence in and carry over to eggs. Mattern EM, et al. **Z Lebensm Unters Forsch** 1990 Jan;190(1):25–30

[A simple semiquantitative determination of trenbolone acetate and trenbolone in biological material from farm animals] Gernhard K, et al. **Arch Exp Veterinarmed** 1989 Nov;43(6):863–6 (Eng. Abstr.) **(Ger)**

[Experimental laboratory diagnostic and residual toxicological studies in young cocks after feeding mercury-disinfected seed with and without selenium supplementation] Wilsdorf G, et al. **Arch Exp Veterinarmed** 1989 Nov;43(6):867–76 (Eng. Abstr.) **(Ger)**

[Drug residues in food fish] Hartmann S, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Jul;97(7):293–6 (11 ref.) (Eng. Abstr.) **(Ger)**

[Comparative observations of the behavior of ethephon in fruit, coffee and paprika] Banasiak U, et al. **Nahrung** 1989; 33(8):779–88 (Eng. Abstr.) **(Ger)**

[A simple and rapid gas chromatographic determination of residues of dimethoate in fruits and vegetables] Hanika G, et al. **Nahrung** 1989;33(10):1023–4 **(Ger)**

[Determination of residues of chloramphenicol in food of animal origin] Plantikow A, et al. **Nahrung** 1989; 33(10):1021–2 **(Ger)**

[Determination of residues of organochlorine insecticides and polychlorinated biphenyls in cereals, feeds and water] Riebel A, et al. **Nahrung** 1989;33(8):743–51 (Eng. Abstr.) **(Ger)**

[Testing of residues of vegetable drugs, organochlorine herbicides and polychlorinated biphenyls (PCB)] Gabrio T, et al. **Pharmazie** 1990 Mar;45(3):209–10 (Eng. Abstr.) **(Ger)**

[Analytical methods for the determination of polychlorinated dibenzodioxins and dibenzofurans in human milk] Fürst P, et al. **Z Lebensm Unters Forsch** 1989 Oct;189(4):338–45 (Eng. Abstr.) **(Ger)**

[Tablet residues in gastrointestinal contents? A polarization microscopy screening method for rapid evaluation at the autopsy table] Hochmeister M, et al. **Z Rechtsmed** 1990; 103(4):301–9 (Eng. Abstr.) **(Ger)**

METABOLISM

Postmortal degradation of furazolidone and furaltadone in edible tissues of calves. Nouws JF, et al. **Vet Q** 1990 Jan; 12(1):56–9

PHARMACOKINETICS

Oral bioavailability of aged polychlorinated biphenyl residues contained in soil. Fries GF, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):683–90

Resin residue [letter] Abemayor EM, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):317

PHARMACOLOGY

[Drug residues from slurry and their effect on the development of resistance of E. coli isolates from swine] Norpoth A, et al. **Zentralbl Hyg Umweltmed** 1989 Nov; 189(2):151–63 (Eng. Abstr.) **(Ger)**

POISONING

[Toxicological considerations in the evaluation of veterinary drugs] Jager LP, et al. **Tijdschr Diergeneeskd** 1990 Aug 15;115(15–16):727–35 (Eng. Abstr.) **(Dut)**

TOXICITY

[Food toxicology: free residues, bound residues: respective toxicity] Rico A. **Bull Acad Natl Med** 1990 M r; 174(3):365–9; discussion 369–70 (5 ref.) (Eng. Abstr.) **(Fre)**

DRUG RESISTANCE

Intrinsic and acquired multidrug resistance in human lung carcinomas grown in nude mice. Mattern J, et al. **Anticancer Res** 1990 Jan–Feb;10(1):177–80

Molecular basis of cisplatin resistance in human carcinomas: model systems and patients. Scanlon KJ, et al. **Anticancer Res** 1989 Sep–Oct;9(5):1301–12 (57 ref.)

Multidrug resistance and P-glycoprotein expression in human cancer. Ma DD, et al. **Aust N Z J Med** 1989 Dec; 19(6):736–43 (66 ref.)

Protein kinase C-gamma is present in adriamycin resistant HL-60 leukemia cells. Aquino A, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):723–8

Fast kinetic analysis of drug transport in multidrug resistant cells using a pulsed quench-flow apparatus. Cano-Gauci DF, et al. **Biochem Biophys Res Commun** 1990 Feb 28; 167(1):48–53

Correlation of protein kinase C translocation, P-glycoprotein phosphorylation and reduced drug accumulation in multidrug resistant human KB cells. Chambers TC, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):253–9

Cross-resistance to anti-HIV nucleoside analogs in multidrug-resistant human cells. Yusa K, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):986–90

Glutathione S-transferase and P-glycoprotein in multidrug resistant Chinese hamster cells. Medh RD, et al. **Biochem Pharmacol** 1990 Jun 1;39(11):1641–5

The activity of verapamil as a resistance modifier in vitro in drug resistant human tumour cell lines is not stereospecific. Plumb JA, et al. **Biochem Pharmacol** 1990 Feb 15;39(4):787–92

Increased cellular internalization of amphiphiles in a multidrug-resistant CHO cell line. Boscoboinik D, et al. **Biochim Biophys Acta** 1989 Oct 30;1014(1):53–6

Serial transplantation of methotrexate-resistant bone marrow: protection of murine recipients from drug toxicity by progeny of transduced stem cells. Corey CA, et al. **Blood** 1990 Jan 15;75(2):337–43

Elimination of drug-resistant myeloma tumor cell lines by monoclonal anti-P-glycoprotein antibody and rabbit complement. Kulkarni SS, et al. **Blood** 1989 Nov 1; 74(6):2244–51

Transport of the multidrug resistance modulators verapamil and azidopine in wild type and daunorubicin resistant Ehrlich ascites tumour cells. Sehested M, et al. **Br J Cancer** 1990 Jul;62(1):37–41

Relationship between chemoresistance of lung tumours and cigarette smoking. Volm M, et al. **Br J Cancer** 1990 Aug; 62(2):255–6

Expression of the multidrug transporter, P-glycoprotein, in acute leukemia cells and correlation to clinical drug resistance. Kuwazuru Y, et al. **Cancer** 1990 Sep 1; 66(5):868–73

Reversal of multidrug resistance by new dihydropyridines with lower calcium antagonistic activity. Yoshinari T, et al. **Cancer Chemother Pharmacol** 1989;24(6):367–70

Isolation and characterization of doxorubicin-resistant Lewis lung carcinoma variants. Bruno NA, et al. **Cancer Commun** 1990;2(4):151–8

Inhibition of a specific DNA repair system and nitrosourea cytotoxicity in resistant human cancer cells. Futscher BW, et al. **Cancer Commun** 1989;1(1):65–73

In vitro multidrug resistance of P388 murine leukemia selected for resistance to diaziquone. Gutierrez PL, et al. **Cancer Commun** 1989;1(3):181–90

Activity of cyclosporin A and a non-immunosuppressive cyclosporin against multidrug resistant leukemic cell lines. Hait WN, et al. **Cancer Commun** 1989;1(1):35–43

Exploring multidrug resistance using rhodamine 123. Kessel D. **Cancer Commun** 1989;1(3):145–9

Protein phosphorylation in multidrug resistant Chinese hamster cells. Meyers MB. **Cancer Commun** 1989; 1(4):233–41

The relationship between multidrug resistance and tumor necrosis factor resistance in an EL4 cell line model. Ujhazy P, et al. **Cancer Commun** 1990;2(5):181–8

Changes in the three-dimensional organization of LoVo cells associated with resistance to doxorubicin. Soranzo C, et al. **Cancer Lett** 1989 Nov 15;48(1):37–41

Novel screening method for agents that overcome classical multidrug resistance in a human cell line. Yoshimura A, et al. **Cancer Lett** 1990 Apr 9;50(1):45–51

Influence of microenvironmental pH on adriamycin resistance. Alabaster O, et al. **Cancer Res** 1989 Oct 15; 49(20):5638–43

Multidrug resistance in a human leukemic cell line selected for resistance to trimetrexate. Arkin H, et al. **Cancer Res** 1989 Dec 1;49(23):6556–61

Non-P-glycoprotein mediated mechanism for multidrug resistance precedes P-glycoprotein expression during in vitro selection for doxorubicin resistance in a human lung cancer cell line. Baas F, et al. **Cancer Res** 1990 Sep 1; 50(17):5392–8

Transfer of adriamycin resistance by fusion of Mr 170,000 P-glycoprotein to the plasma membrane of sensitive cells. Belli JA, et al. **Cancer Res** 1990 Apr 1;50(7):2191–7

Reversal of multidrug resistance by verapamil and modulation by alpha 1-acid glycoprotein in wild-type and multidrug-resistant Chinese hamster ovary cell lines. Chatterjee M, et al. **Cancer Res** 1990 May 1;50(9):2818–22

In vitro bone marrow purging of multidrug-resistant cells with a mouse monoclonal antibody directed against Mr 170,000 glycoprotein and a saporin-conjugated anti-mouse antibody. Dinota A, et al. **Cancer Res** 1990 Jul 15; 50(14):4291–4

DNA interstrand cross-link and free radical formation in a

human multidrug-resistant cell line from mitomycin C and its analogues. Duarе L, et al. **Cancer Res** 1990 Feb 1; 50(3):648–52

Cellular and biochemical characterization of thioxanthenes for reversal of multidrug resistance in human and murine cell lines. Ford JM, et al. **Cancer Res** 1990 Mar 15; 50(6):1748–56

Reversal by cefoperazone of resistance to etoposide, doxorubicin, and vinblastine in multidrug resistant human sarcoma cells. Gosland MP, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):6901–5

3'-Deamino-3'-morpholino-13-deoxo-10-hydroxycarminomycin conquers multidrug resistance by rapid influx following higher frequency of formation of DNA single- and double-strand breaks. Horichi N, et al. **Cancer Res** 1990 Aug 1;50(15):4698–701

Combined use of cyclosporin A and verapamil in modulating multidrug resistance in human leukemia cell lines. Hu XF, et al. **Cancer Res** 1990 May 15;50(10):2953–7

Lack of drug-induced DNA cross-links in chlorambucil-resistant Chinese hamster ovary cells. Jiang BZ, et al. **Cancer Res** 1989 Oct 15;49(20):5514–7

Effects of 2-deoxyglucose on drug-sensitive and drug-resistant human breast cancer cells: toxicity and magnetic resonance spectroscopy studies of metabolism. Kaplan O, et al. **Cancer Res** 1990 Feb 1;50(3):544–51

Mechanisms of multidrug resistance in HL60 cells: detection of resistance-associated proteins with antibodies against synthetic peptides that correspond to the deduced sequence of P-glycoprotein. Marquardt D, et al. **Cancer Res** 1990 Mar 1;50(5):1426–30

First Annual Pezcoller Symposium. Drug resistance—mechanisms and reversal. Mihich E. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7168–71

Antigens associated with multidrug resistance in H69AR, a small cell lung cancer cell line. Mirski SE, et al. **Cancer Res** 1989 Oct 15;49(20):5719–24

Inverse correlation between expression of multidrug resistance gene and N-myc oncogene in human neuroblastomas. Nakagawara A, et al. **Cancer Res** 1990 May 15;50(10):3043–7

Drug-induced DNA hypermethylation and drug resistance in human tumors. Nyce J. **Cancer Res** 1989 Nov 1; 49(21):5829–36

Flow cytometric characterization of antifolate resistance in cultured mammalian cells using fluoresceinated methotrexate and daunorubicin. Sherwood SW, et al. **Cancer Res** 1990 Aug 15;50(16):4946–50

Two pyridine analogues with more effective ability to reverse multidrug resistance and with lower calcium channel blocking activity than their dihydropyridine counterparts. Shudo N, et al. **Cancer Res** 1990 May 15;50(10):3055–61

Drug resistance in cancer therapy. **Cancer Treat Res** 1989; 48:1–203

Glutathione S-transferase and drug resistance. Cazenave LA, et al. **Cancer Treat Res** 1989;48:171–87 (90 ref.)

Phosphoprotein, protein kinase C, and second-messenger system changes in human multidrug-resistant cancer cells. Fine RL, et al. **Cancer Treat Res** 1989;48:107–23 (36 ref.)

Multidrug resistance in human tumors. Fojo AT. **Cancer Treat Res** 1989;48:27–36 (45 ref.)

Structure and function of P-glycoprotein. Gerlach JH. **Cancer Treat Res** 1989;48:37–53 (81 ref.)

Mathematical models of drug resistance and chemotherapy effects. Goldie JH. **Cancer Treat Res** 1989;48:13–26 (30 ref.)

P-glycoprotein in breast cancer. Merkel DE, et al. **Cancer Treat Res** 1989;48:97–105 (49 ref.)

Tumor cell drug and radiation resistance: does an interrelationship exist? Mitchell JB, et al. **Cancer Treat Res** 1989;48:189–203 (39 ref.)

Circumvention of drug resistance with calcium channel blockers and monoclonal antibodies. Tsuruo T. **Cancer Treat Res** 1989;48:73–95 (141 ref.)

Drug resistance: the clinical problem. Young RC. **Cancer Treat Res** 1989;48:1–12 (40 ref.)

TFT and 6TG resistance of mouse lymphoma cells to analogs of azacytidine. McGregor DB, et al. **Carcinogenesis** 1989 Nov;10(11):2003–8

Microplate assay of glutathione s-transferase activity for resistance detection in single-mosquito triturates. Brogdon WG, et al. **Comp Biochem Physiol [B]** 1990;96(2):339–42

Transfection of a mutant regulatory subunit gene of cAMP-dependent protein kinase causes increased drug sensitivity and decreased expression of P-glycoprotein. Abraham I, et al. **Exp Cell Res** 1990 Jul;189(1):133–41

Multidrug-resistance phenotype of a subpopulation of T-lymphocytes without drug selection. Neyfakh AA, et al. **Exp Cell Res** 1989 Dec;185(2):496–505

P-glycoprotein: multidrug-resistance and a superfamily of membrane-associated transport proteins. Juranka PF, et al. **FASEB J** 1989 Dec;3(14):2583–92 (66 ref.)

P-glycoproteins encoded by mdr 1b in murine gravid uterus and multidrug resistant tumor cell lines are differentially glycosylated. Greenberger LM, et al. **FEBS Lett** 1989 Nov 6;257(2):419–21

Free radicals and anticancer drug resistance: oxygen free radicals in the mechanisms of drug cytotoxicity and resistance by certain tumors. Sinha BK, et al. **Free Radic Biol Med** 1990;8(6):567–81 (93 ref.)

Application of natural partial digests to pulsed-field gel analysis of the amplified MDR locus. Meese E, et al. **Genomics** 1989 Aug;5(2):371–4

Isolation and characterization of an adriamycin-resistant breast tumor cell line. Schneider SL, et al. **In Vitro Cell Dev Biol** 1990 Jun;26(6):621–8

Reversal of multi-drug resistance in human KB cell lines by structural analogs of verapamil. Pirker R, et al. **Int J Cancer** 1990 May 15;45(5):916–9

Photosensitized labeling of a functional multidrug transporter in living drug-resistant tumor cells. Raviv Y, et al. **J Biol Chem** 1990 Mar 5;265(7):3975–80

Competitive interaction of cyclosporins with the Vinca alkaloid-binding site of P-glycoprotein in multidrug-resistant cells. Tamai I, et al. **J Biol Chem** 1990 Sep 25;265(27):16509–13

Immunohistochemical detection of P-glycoprotein: prognostic correlation in soft tissue sarcoma of childhood. Chan HS, et al. **J Clin Oncol** 1990 Apr;8(4):689–704

Structure-activity relationships of antineoplastic agents in multidrug resistance. Selassie CD, et al. **J Med Chem** 1990 Jul;33(7):1914–9

Multidrug resistance associated with altered topoisomerase II activity—topoisomerases II as targets for rational drug design [comment] Morrow CS, et al. **J Natl Cancer Inst** 1990 Apr 18;82(8):638–9 Comment on: J Natl Cancer Inst 1990 Apr 18;82(8):662–7.

Chemosensitivity patterns and expression of human multidrug resistance-associated MDR1 gene by human gastric and colorectal carcinoma cell lines. Park JG, et al. **J Natl Cancer Inst** 1990 Feb 7;82(3):193–8

Erratum: Drug resistance in Chinese hamster ovary cells during recovery from severe hypoxia [letter] Wilson RE, et al. **J Natl Cancer Inst** 1990 Feb 7;82(3):239

HT1080/DR4: a P-glycoprotein-negative human fibrosarcoma cell line exhibiting resistance to topoisomerase II-reactive drugs despite the presence of a drug-sensitive topoisomerase II. Zwelling LA, et al. **J Natl Cancer Inst** 1990 Oct 3;82(19):1553–61

Mechanisms and modulation of multidrug resistance in primary human renal cell carcinoma [see comments] Mickisch GH, et al. **J Urol** 1990 Sep;144(3):755–9 Comment in: J Urol 1990 Sep;144(3):754.

This month in investigative urology: Multidrug resistance in genitourinary malignancy [comment] Weiss GH, et al. **J Urol** 1990 Sep;144(3):754 Comment on: J Urol 1990 Sep;144(3):755–9.

Multidrug resistance in cultured human leukemia and lymphoma cell lines detected by a monoclonal antibody, MRK16. Ishida Y, et al. **Jpn J Cancer Res** 1989 Oct; 80(10):1006–13

A novel multidrug resistance in cultured leukemia and lymphoma cells detected by a monoclonal antibody to 85-kDa protein, MRK20. Ohtsu T, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1133–40

Inhibition of multidrug-resistant human tumor growth in athymic mice by anti-P-glycoprotein monoclonal antibodies. Tsuruo T, et al. **Jpn J Cancer Res** 1989 Jul; 80(7):627–31

Differences between responsive and intractable chronic lymphocytic leukemia. Schrek R. **Med Hypotheses** 1990 Feb;31(2):81–2

Increased expression and DNA-binding activity of transcription factor Sp1 in doxorubicin-resistant HL-60 leukemia cells. Borellini F, et al. **Mol Cell Biol** 1990 Oct; 10(10):5541–7

Synthetic isoprenoid photoaffinity labeling of P-glycoprotein specific to multidrug-resistant cells. Akiyama S, et al. **Mol Pharmacol** 1989 Nov;36(5):730–5

Evidence of DNA topoisomerase II-dependent mechanisms of multidrug resistance in P388 leukemia cells. De Isabella P, et al. **Mol Pharmacol** 1990 Jan;37(1):11–6

Identification of the multidrug resistance-related P-glycoprotein as a cyclosporine binding protein. Foxwell BM, et al. **Mol Pharmacol** 1989 Oct;36(4):543–6

New test reveals extreme drug resistance in many cancer patients [news] **Oncology (Williston Park)** 1990 May;4(5):76

Mechanisms and clinical significance of multidrug resistance. Morrow CS, et al. **Oncology (Williston Park)** 1988 Oct; 2(10):55–63, 66–8 (93 ref.)

Potentiation of human natural killer cell activity by recombinant interleukin-2 towards multidrug-resistant human epidermoid carcinoma. Ades EW, et al. **Pathobiology** 1990;58(2):84–7

Evolution of resistance with sequential application of insecticides in time and space. Mani GS. **Proc R Soc Lond [Biol]** 1989 Dec 22;238(1292):245–76

Mechanisms of drug resistance in breast cancer. Dalton WS. **Semin Oncol** 1990 Aug;17(4 Suppl 7):37–9 (10 ref.)

Substrate specificity and the mdr pump [letter] De Bruijn MH. **Trends Biochem Sci** 1990 Jun;15(6):218–9

Is the glutathione S-conjugate carrier an mdr1 gene product? [letter] Ishikawa T. **Trends Biochem Sci** 1990 Jun; 15(6):219–20 (14 ref.)

Understanding of the molecular basis of drug resistance in cancer reveals new targets for chemotherapy. Dickson RB, et al. **Trends Pharmacol Sci** 1990 Aug;11(8):305–7 (3 ref.)

Immunohistochemical analysis of pulmonary and pleural tumors with the monoclonal antibody HYB-612 directed against the multidrug resistance (MDR-1) gene product, P-glycoprotein. Radosevich JA, et al. **Tumour Biol** 1989; 10(5):252–7

[Chemoresistance of tumors. Factors related to tumor kinetics and the occurrence of resistant cells] Tubiana M. **Bull Cancer (Paris)** 1989;76(9):959–65 (24 ref.) (Fre)

GENETICS

Expression of a multidrug resistance gene [letter] Gonzalez S, et al. **Am J Clin Pathol** 1990 Sep;94(3):368–9

Expression of a multidrug resistance gene in esophageal adenocarcinoma. Correlation with response to chemotherapy and comparison with gastric adenocarcinoma. Robey-Cafferty SS, et al. **Am J Clin Pathol** 1990 Jan;93(1):1–7

P-glycoprotein and multidrug resistance [editorial] Skubitz KM. **Am J Clin Pathol** 1990 Jan;93(1):156–7

Expression of multiple drug resistance gene, MDR1, and N-myc oncogene in an Italian population of human neuroblastoma patients. Corrias MV, et al. **Anticancer Res** 1990 Jul-Aug;10(4):897–902

mdr1/P-glycoprotein gene segments analyzed from various human leukemic cell lines exhibiting different multidrug resistance profiles. Gekeler V, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):796–802

The direct activation of human multidrug resistance gene (MDR1) by anticancer agents. Kohno K, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1415–21

Atypical multidrug resistance in CCRF-CEM cells selected for high level methotrexate resistance: reactivity to monoclonal antibody C219 in the absence of P-glycoprotein expression. Norris MD, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1435–41

Detection of 300-kilodalton membrane protein in adriamycin-resistant human tumor cells by a monoclonal antibody MRK18. Sugimoto Y, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):686–91

Resistance to natural products in leukemia. Borst P, et al. **Bone Marrow Transplant** 1990 Jul;6 Suppl 1:44–7 (33 ref.)

Glutathione-s-transferase pi expression in leukaemia: a comparative analysis with mdr-1 data. Holmes J, et al. **Br J Cancer** 1990 Aug;62(2):209–12

Non-P-glycoprotein-mediated multidrug resistance with reduced EGF receptor expression in a human large cell lung cancer cell line. Reeve JG, et al. **Br J Cancer** 1990 Jun;61(6):851–5

MDR1 transcript levels as an indication of resistant disease in acute myelogenous leukaemia. Sato H, et al. **Br J Haematol** 1990 Jul;75(3):340–5

Multidrug resistance in the laboratory and clinic. Kane SE, et al. **Cancer Cells** 1989 Sep;1(1):33–6 (0 ref.)

Multidrug resistance. Fine RL. **Cancer Chemother Biol Response Modif** 1988;10:73–84 (54 ref.)

Mechanisms of drug resistance to inhibitors directed at the individual subunits of ribonucleotide reductase. Carter GL, et al. **Cancer Commun** 1989;1(1):13–20

Progressive resistance to doxorubicin in mouse leukemia L1210 cells with multidrug resistance phenotype: reductions in drug-induced topoisomerase II-mediated DNA cleavage. Ganapathi R, et al. **Cancer Commun** 1989; 1(4):217–24

Concerning antisense inhibition of the multiple drug resistance gene. Jaroszewski JW, et al. **Cancer Commun** 1990;2(8):287–94

Human breast carcinoma cell levels of MDR-1 (P-glycoprotein) transcripts correlate in vivo inversely and reciprocally with tumor progesterone receptor content. Kacinski BM, et al. **Cancer Commun** 1989;1(1):1–6

Expression of a multidrug resistance gene in blast crisis of chronic myelogenous leukemia. Pirker R, et al. **Cancer Commun** 1989;1(2):141–4

Glutathione, glutathione S-transferases, and related redox enzymes in Adriamycin-resistant cell lines with a multidrug resistant phenotype. Schisselbauer JC, et al. **Cancer Commun** 1989;1(2):133–9

Modulation of drug resistance in a daunorubicin resistant subline with oligonucleoside methylphosphonates [published erratum appears in Cancer Commun 1990;2(8):295] Vasanthakumar G, et al. **Cancer Commun** 1989;1(4):225–32

Cellular resistance to drugs [editorial] Krishan A. **Cancer Invest** 1989;7(2):211–2

Phenotypic and cytogenetic analysis of atypical multidrug resistance in human leukaemic cells selected with methotrexate at high concentration. Kavallaris M, et al. **Cancer Lett** 1990 Jun 15;51(3):193–201

Analysis of various mRNA potentially involved in cisplatin resistance of murine leukemia L1210 cells. Sheibani N, et al. **Cancer Lett** 1990 Jul 31;52(3):179–85

Increase in nitrosourea resistance in mammalian cells by retrovirally mediated gene transfer of bacterial O6-alkylguanine-DNA alkyltransferase. Dumenco LL, et al. **Cancer Res** 1989 Nov 1;49(21):6044–51

Flow cytometric analysis of DNA damage and repair in the cells resistant to alkylating agents. Frankfurt OS, et al. **Cancer Res** 1990 Aug 1;50(15):4453–7

Determination of the DNA content of a six-gene amplicon in the multidrug-resistant Chinese hamster cell line CHRB3 by flow karyotyping. Jongsma AP, et al. **Cancer Res** 1990 May 1;50(9):2803–7

Multiple resistance mechanisms in Chinese hamster cells resistant to 9-hydroxyellipticine. Larsen AK, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7115–9

Multidrug resistance phenotype of human BRO melanoma cells transfected with a wild-type human mdr1 complementary DNA. Lincke CR, et al. **Cancer Res** 1990 Mar 15;50(6):1779–85

Characterization of B16 melanoma cells resistant to the

CC-1065 analogue U-71,184. Moy BC, et al. **Cancer Res** 1990 Apr 15;50(8):2485-92

Non-p-glycoprotein-mediated multidrug resistance in detransformed rat cells selected for resistance to methylglyoxal bis(guanylhydrazone). Weber JM, et al. **Cancer Res** 1989 Nov 1;49(21):5779-83

Reversal of the multidrug resistance phenotype with cremophor EL, a common vehicle for water-insoluble vitamins and drugs. Woodcock DM, et al. **Cancer Res** 1990 Jul 15;50(14):4199-203

Increased drug resistance following retroviral gene transfer of a chimeric P-enolpyruvate carboxykinase (GTP)-bacterial O6-alkylguanine-DNA alkyltransferase gene into NRK cells. Lim IK, et al. **Carcinogenesis** 1990 May;11(5):737-43

Overexpression of P-glycoprotein in rat hepatocellular carcinomas induced with N-nitrosomorpholine. Volm M, et al. **Carcinogenesis** 1990 Jan;11(1):169-72

The amplified H circle of methotrexate-resistant leishmania tarentolae contains a novel P-glycoprotein gene. Ouellette M, et al. **EMBO J** 1990 Apr;9(4):1027-33

Retroviral transfer of a chimeric multidrug resistance-adenosine deaminase gene. Germann UA, et al. **FASEB J** 1990 Mar;4(5):1501-7

A new vector using the human multidrug resistance gene as a selectable marker enables overexpression of foreign genes in eukaryotic cells. Kane SE, et al. **Gene** 1989 Dec 14;84(2):439-46

Graduated resistance to G418 leads to differential selection of cultured mammalian cells expressing the neo gene. Paludan K, et al. **Gene** 1989 Dec 28;85(2):421-6

Multidrug resistance genes, p-glycoprotein and the liver. Arias IM. **Hepatology** 1990 Jul;12(1):159-65 (60 ref.)

P-glycoproteins in pathology: the multidrug resistance gene family in humans. Weinstein RS, et al. **Hum Pathol** 1990 Jan;21(1):34-48 (131 ref.)

Overexpression of the mdr1 gene in blast cells from patients with acute myelocytic leukemia is associated with decreased anthracycline accumulation that can be restored by cyclosporin-A. Nooter K, et al. **Int J Cancer** 1990 Feb 15;45(2):263-8

Sequential amplification of dihydrofolate reductase and multidrug resistance genes in Chinese hamster ovary cells selected for stepwise resistance to the lipid-soluble antifolate trimetrexate. Assaraf YG, et al. **J Biol Chem** 1989 Nov 5;264(31):18326-34

Protein kinase C phosphorylates P-glycoprotein in multidrug resistant human KB carcinoma cells. Chambers TC, et al. **J Biol Chem** 1990 May 5;265(13):7679-86

Genomic organization of the human multidrug resistance (MDR1) gene and origin of P-glycoproteins. Chen CJ, et al. **J Biol Chem** 1990 Jan 5;265(1):506-14

Heat shock and arsenite increase expression of the multidrug resistance (MDR1) gene in human renal carcinoma cells. Chin KV, et al. **J Biol Chem** 1990 Jan 5;265(1):221-6

Isolation of a lipopolysaccharide (LPS)-resistant mutant, with defective LPS binding, of cultured macrophage-like cells. Hara-Kuge S, et al. **J Biol Chem** 1990 Apr 25; 265(12):6606-10

Modulation of the expression of a multidrug resistance gene (mdr-1/P-glycoprotein) by differentiating agents. Mickley LA, et al. **J Biol Chem** 1989 Oct 25;264(30):18031-40

Glutathione-S-transferase pi as a determinant of drug resistance in transfectant cell lines. Nakagawa K, et al. **J Biol Chem** 1990 Mar 15;265(8):4296-301

Differential transport properties of two mdr gene products are distinguished by progesterone. Yang CP, et al. **J Biol Chem** 1990 Jun 25;265(18):10282-8

Expression of the multidrug resistance gene product (P-glycoprotein) in human normal and tumor tissues. Cordon-Cardo C, et al. **J Histochem Cytochem** 1990 Sep; 38(9):1277-87

Unknotting the complexities of multidrug resistance: the involvement of DNA topoisomerases in drug action and resistance. Beck WT. **J Natl Cancer Inst** 1989 Nov 15; 81(22):1683-5

"Turning the tables"--making normal marrow resistant to chemotherapy [editorial; comment] Bertino JR. **J Natl Cancer Inst** 1990 Aug 1;82(15):1234-5 Comment on: J Natl Cancer Inst 1990 Aug 1;82(15):1260-3.

Expression of mdr1 and mdr3 multidrug-resistance genes in human acute and chronic leukemias and association with stimulation of drug accumulation by cyclosporine. Herweijer H, et al. **J Natl Cancer Inst** 1990 Jul 4; 82(13):1133-40

Overexpression of P-glycoprotein in mammalian tumor cell lines after fractionated X irradiation in vitro. Hill BT, et al. **J Natl Cancer Inst** 1990 Apr 4;82(7):607-12

Expression of a human complementary DNA for the multidrug resistance gene in murine hematopoietic precursor cells with the use of retroviral gene transfer [see comments] McLachlin JR, et al. **J Natl Cancer Inst** 1990 Aug 1;82(15):1260-3 Comment in: J Natl Cancer Inst 1990 Aug 1;82(15):1234-5.

Detection of etoposide resistance by measuring DNA damage in individual Chinese hamster cells. Olive PL, et al. **J Natl Cancer Inst** 1990 May 2;82(9):779-83

Expression of multidrug-resistance (MDR1) gene in normal epithelia and in invasive carcinomas of the uterine cervix. Riou GF, et al. **J Natl Cancer Inst** 1990 Sep 19; 82(18):1493-6

Amplification and expression of a multidrug resistance gene in human glioma cell lines. Matsumoto T, et al. **J Neurosurg** 1990 Jan;72(1):96-101

Rapid titration of retroviral vectors encoding intracellular antigens by flow cytometry. Sladek TL, et al. **J Virol** 1990 Jun;64(6):3135-8

Detection of multidrug resistance (MDR1) gene RNA expression in human tumors by a sensitive ribonuclease protection assay. Ueda K, et al. **Jpn J Cancer Res** 1989 Nov;80(11):1127-32

Multidrug resistance in cancer. **Lancet** 1989 Nov 4; 2(8671):1075-6 (21 ref.)

Expression of the multidrug resistance gene in myeloid leukemias. Sato H, et al. **Leuk Res** 1990;14(1):11-21

Is the mdr 1 gene relevant in chronic lymphocytic leukemia? Holmes JA, et al. **Leukemia** 1990 Mar;4(3):216-8

A genomic change associated with the development of resistance to hycanthone in Schistosoma mansoni. Brindley PJ, et al. **Mol Biochem Parasitol** 1989 Oct;36(3):243-52

Emetine-resistant mutants of Entamoeba histolytica overexpress mRNAs for multidrug resistance. Samuelson J, et al. **Mol Biochem Parasitol** 1990 Jan 15;38(2):281-90

Point mutations in the dihydrofolate reductase-thymidylate synthase gene as the molecular basis for pyrimethamine resistance in Plasmodium falciparum. Zolg JW, et al. **Mol Biochem Parasitol** 1989 Oct;36(3):253-62

Discrete mutations introduced in the predicted nucleotide-binding sites of the mdr1 gene abolish its ability to confer multidrug resistance. Azzaria M, et al. **Mol Cell Biol** 1989 Dec;9(12):5289-97

Expression of a drug resistance gene in human neuroblastoma cell lines: modulation by retinoic acid-induced differentiation. Bates SE, et al. **Mol Cell Biol** 1989 Oct; 9(10):4337-44

Two members of the mouse mdr gene family confer multidrug resistance with overlapping but distinct drug specificities. Devault A, et al. **Mol Cell Biol** 1990 Apr; 10(4):1652-63

Expression of a human multidrug resistance cDNA (MDR1) in the bone marrow of transgenic mice: resistance to daunomycin-induced leukopenia. Galski H, et al. **Mol Cell Biol** 1989 Oct;9(10):4357-63

Structural analysis of the mouse mdr1a (P-glycoprotein) promoter reveals the basis for differential transcript heterogeneity in multidrug-resistant J774.2 cells. Hsu SI, et al. **Mol Cell Biol** 1990 Jul;10(7):3596-606

Multiple origins of replication in the dihydrofolate reductase amplicons of a methotrexate-resistant chinese hamster cell line. Ma C, et al. **Mol Cell Biol** 1990 Apr;10(4):1338-46

A Swiss 3T3 variant cell line resistant to the effects of tumor promoters cannot be transformed by src. Nori M, et al. **Mol Cell Biol** 1990 Aug;10(8):4155-62

Physical mapping, amplification, and overexpression of the mouse mdr gene family in multidrug-resistant cells. Raymond M, et al. **Mol Cell Biol** 1990 Apr;10(4):1642-51

Multidrug resistance gene expression is controlled by steroid hormones in the secretory epithelium of the uterus. Arceci RJ, et al. **Mol Reprod Dev** 1990 Feb;25(2):101-9

Several alleles of the multidrug-resistance gene are closely linked to chloroquine resistance in Plasmodium falciparum [see comments] Foote SJ, et al. **Nature** 1990 May 17; 345(6272):255-8 Comment in: Nature 1990 May 17;345(6272):202-3.

Structural model of ATP-binding proteins associated with cystic fibrosis, multidrug resistance and bacterial transport [see comments] Hyde SC, et al. **Nature** 1990 Jul 26; 346(6282):362-5 Comment in: Nature 1990 Jul 26;346(6282):312-3.

Malaria: the path of drug resistance [news; comment] Nevbold C. **Nature** 1990 May 17;345(6272):202-3 Comment on: Nature 1990 May 17;345(6272):253-5. Comment on: Nature 1990 May 17;345(6272):255-8.

Chloroquine resistance not linked to mdr-like genes in a Plasmodium falciparum cross [see comments] Wellems TE, et al. **Nature** 1990 May 17;345(6272):253-5 Comment in: Nature 1990 May 17;345(6272):202-3.

MspI/HpaII polymorphism in the human multidrug resistance gene 1. Haber DA, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10142

Multidrug resistance to alkylating agents and platinum compounds: state of our knowledge. Hamilton TC, et al. **Oncology (Williston Park)** 1990 Mar;4(3):101-6; discussion 106, 109

Functional expression of murine multidrug resistance in Xenopus laevis oocytes. Castillo G, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4737-41

Long-term transplantation of canine keratinocytes made resistant to G418 through retrovirus-mediated gene transfer. Flowers ME, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2349-53

Overexpression and biosynthesis of CD4 in Chinese hamster ovary cells: coamplification using the multiple drug resistance gene. König R, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9188-92

Characterization of amplification core and esterase B1 gene responsible for insecticide resistance in Culex [published erratum appears in Proc Natl Acad Sci U S A 1990 Jun;87(11):4411] Mouches C, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2574-8

Quantitative analysis of MDR1 (multidrug resistance) gene expression in human tumors by polymerase chain reaction. Noonan KE, et al. **Proc Natl Acad Sci U S A** 1990 Sep; 87(18):7160-4

Molecular basis of differential resistance to cycloguanil and pyrimethamine in Plasmodium falciparum malaria. Peterson DS, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3018-22

Expression of recombinant glutathione S-transferase pi, Ya, or Yb1 confers resistance to alkylating agents. Puchalski RB, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2443-7

Molecular basis of preferential resistance to colchicine in multidrug-resistant human cells conferred by Gly-185——Val-185 substitution in P-glycoprotein. Safa AR, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7225-9

The multidrug resistance gene in renal cell carcinoma. Klein EA. **Semin Urol** 1989 Nov;7(4):207-14 (32 ref.)

Point mutations may account for pyrimethamine resistance. Ash C. **Trends Pharmacol Sci** 1989 Aug;10(8):303-4 (14 ref.)

A pleiotropic response associated with resistance of breast cancer cells to antineoplastic drugs and hormonal agents. Vickers PP, et al. **Trends Pharmacol Sci** 1988 Dec; 9(12):443-5 (33 ref.)

[Multidrug resistant genes MDR1] Calvo F, et al. **Bull Cancer (Paris)** 1989;76(9):973-7 (22 ref.) **(Fre)**

[Acquisition of metastatic potential and chemoresistance. Markers connected to the development of malignancy] Poupon MF. **Pathol Biol (Paris)** 1989 Nov;37(9):1018-21 **(Fre)**

[Expression of P-glycoprotein (multidrug-resistance gene product) in haematological tumors] Funato T, et al. **Rinsho Byori** 1989 Jul;37(7):779-83 (Eng. Abstr.) **(Jpn)**

[Normalization of the phenotype of transformed Djungarian hamster cells during selection for colchicine resistance] Abdriashitov RI, et al. **Eksp Onkol** 1989;11(5):26-30 (Eng. Abstr.) **(Rus)**

[Multiple drug resistance and differentiation in the population of transformed dog kidney cells MDCK] Stavrovskaia AA, et al. **Mol Gen Mikrobiol Virusol** 1990 May;(5):3-7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

A monoclonal antibody detecting cell surface epitope on some drug resistant human tumour cell lines. Cole SP, et al. **Br J Cancer** 1990 Jul;62(1):14-6

PHYSIOLOGY

Structural characteristics of compounds that modulate P-glycoprotein-associated multidrug resistance. Pearce HL, et al. **Adv Enzyme Regul** 1990;30:357-73

The alpha 1-adrenergic photoaffinity probe [125I]arylazidoprazosin binds to a specific peptide of P-glycoprotein in multidrug-resistant cells. Safa AR, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):259-66

Investigation of the relationship between altered intracellular pH and multidrug resistance in mammalian cells. Boscoboinik D, et al. **Br J Cancer** 1990 Apr;61(4):568-72

Cyclosporin A and verapamil have different effects on energy metabolism in multidrug-resistant tumour cells. Broxterman HJ, et al. **Br J Cancer** 1990 Jul;62(1):85-8

Chemosensitisation by verapamil and cyclosporin A in mouse tumour cells expressing different levels of P-glycoprotein and CP22 (sorcin). Twentyman PR, et al. **Br J Cancer** 1990 Jul;62(1):89-95

Expression of the multidrug transporter, P-glycoprotein, in chronic myelogenous leukaemia cells in blast crisis. Kuwazuru Y, et al. **Br J Haematol** 1990 Jan;74(1):24-9

Multidrug resistance. Fine RL, et al. **Cancer Chemother Biol Response Modif** 1987;9:81-92 (55 ref.)

Structural determinants of phenoxazine type compounds required to modulate the accumulation of vinblastine and vincristine in multidrug-resistant cell lines. Thimmaiah KN, et al. **Cancer Commun** 1990;2(7):249-59

Multidrug resistance and its circumvention. Beck WT. **Eur J Cancer** 1990 Apr;26(4):513-5 (47 ref.)

Retention of vital dyes correlates inversely with the multidrug-resistant phenotype of adriamycin-selected murine fibrosarcoma variants. Bucana CD, et al. **Exp Cell Res** 1990 Sep;190(1):69-75

Multidrug resistance due to P-glycoprotein. Burt RK, et al. **Hosp Pract [Off]** 1990 Apr 15;25(4):67-72, 74, 77

Laboratory assessment of P-glycoprotein in cancer chemosensitivity testing [editorial; comment] Weinstein RS, et al. **Hum Pathol** 1990 Aug;21(8):785-6 Comment on: Hum Pathol 1990 Aug;21(8):787-91.

What determines the substrate specificity of the multi-drug-resistance pump? West IC. **Trends Biochem Sci** 1990 Feb;15(2):42-6 (36 ref.)

[Mechanisms of molecular resistance to cancer chemotherapy] Winqvist R, et al. **Duodecim** 1989; 105(21):1707-14 (52 ref.) **(Fin)**

RADIATION EFFECTS

Enhanced DNA repair and tolerance of DNA damage associated with resistance to cis-diammine-dichloroplatinum (II) after in vitro exposure of a human teratoma cell line to fractionated X-irradiation. Hill BT, et al. **Int J Radiat Oncol Biol Phys** 1990 Jul; 19(1):75-83

DRUG RESISTANCE, MICROBIAL

see related
MICROBIAL SENSITIVITY TESTS
SUPERINFECTION

Effect of Cd2+ on growth of the cadmium-resistant and -sensitive Staphylococcus aureus. Tynecka Z, et al. **Acta Microbiol Pol** 1989;38(2):117-29

Incidence of multiple antibiotic resistances in organisms isolated from cases of infantile diarrhoea in a Nigerian oral rehydration therapy clinic. Lamikanra A, et al. **Ann Trop Paediatr** 1989 Dec;9(4):256-60

Comparison of in vitro antibiograms of Bacteroides fragilis group isolates: differences in resistance rates in two institutions because of differences in susceptibility testing methodology. Aldridge KE, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):179-81

Outer membrane barrier as a mechanism of antimicrobial resistance. Nikaido H. **Antimicrob Agents Chemother** 1989 Nov;33(11):1831-6 (60 ref.)

Enhancement of drug susceptibility of Mycobacterium avium by inhibitors of cell envelope synthesis. Rastogi N, et al. **Antimicrob Agents Chemother** 1990 May;34(5):759-64

Drug resistant rhinoviruses from the nose of experimentally treated volunteers. Dearden C, et al. **Arch Virol** 1989; 109(1-2):71-81

Antibiotic resistance in general practice. Hammond L. **Aust Fam Physician** 1990 May;19(5):723-4, 727, 730-1

Expression of human glutathione S-transferases in Saccharomyces cereviniae confers resistance to the anticancer drugs adriamycin and chlorambucil. Black SM, et al. **Biochem J** 1990 Jun 1;268(2):309-15

Antimicrobial resistance of Salmonella isolates from human and animal sources in Ontario. Chagla AH, et al. **Can Dis Wkly Rep** 1990 May 26;16(21):99-102 (Eng, Fre)

The prevalence of verocytotoxin-producing Escherichia coli and antimicrobial resistance patterns of nonverocytotoxin-producing Escherichia coli and Salmonella in Ontario broiler chickens. Irwin RJ, et al. **Can J Vet Res** 1989 Oct;53(4):411-8

Monitoring antimicrobial drug resistance in hospital microorganisms. Definition of problems and methods. Møller JK. **Dan Med Bull** 1990 Jun;37(3):263-74 (167 ref.)

Antibiotic resistance in Australia with special reference to sulbactam/ampicillin. Fernandes CJ, et al. **Diagn Microbiol Infect Dis** 1989 Jul-Aug;12(4 Suppl):153S-157S

Mechanisms of resistance in anaerobes and new developments in testing. Finegold SM. **Diagn Microbiol Infect Dis** 1989 Jul-Aug;12(4 Suppl):117S-120S (28 ref.)

Patterns of resistance to anaerobic organisms in Australia. Munro R. **Diagn Microbiol Infect Dis** 1989 Jul-Aug;12(4 Suppl):159S-163S

Overview of mechanisms of bacterial resistance. Neu HC. **Diagn Microbiol Infect Dis** 1989 Jul-Aug;12(4 Suppl):109S-116S (37 ref.)

Effect on colonization resistance: an important criterion in selecting antibiotics. Vollaard EJ, et al. **DICP** 1990 Jan; 24(1):60-6 (52 ref.)

The in vitro response of Plasmodium falciparum to amodiaquine, quinine and quinidine in Tanga region, Tanzania. Kilimali VA. **East Afr Med J** 1990 May; 67(5):336-40

Efficacies of chloroquine and pyrimethamine-sulphadoxine in a Nigerian population with chloroquine resistant P. falciparum malaria. Usanga EA, et al. **East Afr Med J** 1990 May;67(5):295-301

Bacteriological investigations and resistance patterns in beef and goat's meat in Colombo's slaughter-house. Sixl W, et al. **Geogr Med Suppl** 1989;3:73-6

Resistance to the Bacillus sphaericus toxin in cultured mosquito cells. Schroeder JM, et al. **In Vitro Cell Dev Biol** 1989 Oct;25(10):887-91

Impact of freeze drying on drug resistance pattern of few Escherichia coli strains. Tripathi CK, et al. **Indian J Exp Biol** 1989 Dec;27(12):1099-100

Selection of antibiotics for treatment and prophylaxis of staphylococcal infections in cystic fibrosis patients. Bauernfeind A, et al. **Infection** 1990 Mar-Apr;18(2):126-30

Resistance to third generation cephalosporins: the current situation. Pechère JC. **Infection** 1989 Sep-Oct;17(5):333-7 (42 ref.)

Epidemiology of extended spectrum beta-lactamases. Philippon A, et al. **Infection** 1989 Sep-Oct;17(5):347-54

Outpatient antimicrobial susceptibility: comparison with inpatient susceptibility patterns. Ellison MJ, et al. **J Am Board Fam Pract** 1989 Oct-Dec;2(4):223-6

The changing pattern of antibiotic susceptibilities of Bacteroides fragilis in Kuwait. Elhag KM, et al. **J Antimicrob Chemother** 1989 Nov;24(5):699-707

Antibiotic resistance in enterococci [see comments] Greenwood D. **J Antimicrob Chemother** 1989 Nov; 24(5):631-5 (46 ref.) Comment in: J Antimicrob Chemother 1990 Apr;25(4):697-8.

The prevalence of antibiotic resistance in Haemophilus influenzae in Ireland [published erratum appears in J Antimicrob Chemother 1990 May;25(5):886] Howard AJ, et al. **J Antimicrob Chemother** 1989 Dec;24(6):963-71

Antimicrobial usage and microbial resistance in a university hospital during a seven-year period. Møller JK. **J Antimicrob Chemother** 1989 Dec;24(6):983-92

Antibiotic resistance of Salmonella strains isolated from natural polluted waters. Moriñigo MA, et al. **J Appl Bacteriol** 1990 Mar;68(3):297-302

Techniques used for the determination of antimicrobial resistance and sensitivity in bacteria. Antimicrobial Agents Research Group. Piddock LJ. **J Appl Bacteriol** 1990 Apr; 68(4):307-18 (61 ref.)

Epidemiology of antibiotic resistance in human isolates of Enterobacteriaceae in Sicily. Blandino G, et al. **J Chemother** 1990 Feb;2(1):40-4

Resistance to antibiotics and inorganic ions in virulent bacterial strains from a hospital. Vazquez F, et al. **J Chemother** 1989 Aug;1(4):233-9

Selective decontamination of the digestive tract (SDD), ICU-acquired pneumonia and selection of antibiotic-resistant bacteria [letter; comment] Alcock SR, et al. **J Hosp Infect** 1990 Feb;15(2):195-7 Comment on: J Hosp Infect 1989 May;13(4):325-36.

Studies of a novel agent possessing resistance to moist heat and disinfectants: parallels with Creutzfeldt-Jakob agent. Dyas AC, et al. **J Hosp Infect** 1990 Apr;15(3):265-72

Evaluation of the resistance of Enterobacteriaceae strains to antibiotics--comparison of strains from clinical material versus environment. Krčméry V Jr, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(3):299-304

Genetic relatedness of antibiotic resistance determinants in multiply resistant Hemophilus influenzae. Campos J, et al. **J Infect Dis** 1989 Nov;160(5):810-7

The polymerase chain reaction and rapid antibiotic resistance screening [letter] Nusbaum NJ. **J Infect Dis** 1990 Oct; 162(4):1002

Primary dapsone resistance in China. Chen JK, et al. **Lepr Rev** 1989 Dec;60(4):263-6

Screening media for detection of methicillin-resistant Staphylococcus aureus from non-sterile body sites. Flournoy DJ, et al. **Med Microbiol Immunol (Berl)** 1990; 179(1):25-30

Starting life resistance-free [editorial; comment] Levy SB. **N Engl J Med** 1990 Aug 2;323(5):335-7 Comment on: N Engl J Med 1990 Aug 2;323(5):285-9.

Drug resistant tuberculosis among the homeless in New York City. Pablos-Mendez A, et al. **N Y State J Med** 1990 Jul; 90(7):351-5

Resistance of two strains of Streptococcus pneumoniae to pristinamycin associated with 16-membered macrolides. Emond JP, et al. **Pathol Biol (Paris)** 1989 Sep;37(7):791-2

A 7-year survey of drug resistance in aerobic and anaerobic fecal bacteria of surgical inpatients: clinical relevance and relation to local antibiotic consumption. Kling PA, et al. **Scand J Infect Dis** 1989;21(6):589-96

The policy response: in limbo [news] Wright K. **Science** 1990 Jul 6;249(4964):24

Bacterial resistance in South America. Peixoto S. **Suppl Int J Gynecol Obstet** 1989;2:3-5; discussion 47-8 (3 ref.)

Antibiotic resistance in the tropics. 3. Medical responsibilities of the pharmaceutical industry with respect to use of antibiotics in the tropics [published erratum appears in Trans R Soc Trop Med Hyg 1989 Jul-Aug;83(4):559]. Salter AJ, et al. **Trans R Soc Trop Med Hyg** 1989 Jan-Feb; 83(1):45-8 (15 ref.)

Antiviral drug resistance. Field HJ, et al. **Trends Pharmacol Sci** 1989 Aug;10(8):333-7 (32 ref.)

Primary and acquired drug resistance in Mycobacterium tuberculosis strains in western region of Libyan Arab Jamahiriya. Elghoul MT, et al. **Trop Geogr Med** 1989 Oct; 41(4):304-8

[Prospective study of the primary resistance of the tuberculosis bacillus to antibiotics. Methods and results] Khaled S, et al. **Arch Inst Pasteur Alger** 1988;56:49-65 (Eng. Abstr.) (Fre)

[Relapse of Staphylococcus aureus septicemia due to the emergence ofa fluoroquinolone-resistant mutant (letter)] Chomarat M, et al. **Presse Med** 1990 Feb 17;19(6):265 (Fre)

[Epidemiology of Acinetobacter and resistance to antibiotics at hospitals. A 5-year evaluation] Joly-Guillou ML, et al. **Presse Med** 1990 Mar 3;19(8):357-61 (Eng. Abstr.) (Fre)

[Development of antibiotic resistance in purified sewage effluents subjected to chlorination] Morozzi G, et al. **Ann Ig** 1989 Jan-Apr;1(1-2):351-62 (Eng. Abstr.) (Ita)

[Antibiotic-resistant bacterial strains, their spread and social and economic implications] Cavallo G. **G Batteriol Virol Immunol** 1988 Jan-Dec;81(1-12):117-28 (11 ref.) (Eng. Abstr.) (Ita)

[Problems of the development of microbial drug resistance] **Nippon Rinsho** 1988 Jul;46 Suppl:179-273 (Jpn)

[Frequency of isolating various serostrains of Pseudomonas aeruginosa and their sensitivity to antibiotics] Chaplinskiĭ Vla, et al. **Mikrobiol Zh** 1986 Sep-Oct;48(5):15-22 (Eng. Abstr.) (Rus)

[Biological properties, serogroup affiliation and antibiotic sensitivity of hospital strains of Pseudomonas aeruginosa] Minukhin VV, et al. **Mikrobiol Zh** 1986 Sep-Oct;48(5):10-5 (Eng. Abstr.) (Rus)

[Grouping of Micromonospora based on their cultural-morphologic features, antibiotic-sensitivity and formation of antibiotics] Bibikova MV, et al. **Mikrobiologiia** 1989 Jul-Aug;58(4):635-41 (Eng. Abstr.) (Rus)

GENETICS

Multiplicity of TEM-derived beta-lactamases from Klebsiella pneumoniae strains isolated at the same hospital and relationships between the responsible plasmids. Chanal CM, et al. **Antimicrob Agents Chemother** 1989 Nov; 33(11):1915-20

Gene amplification contributes to sulfonamide resistance in Escherichia coli. Nichols BP, et al. **Antimicrob Agents Chemother** 1989 Dec;33(12):2042-8

TEM-4, a new plasmid-mediated beta-lactamase that hydrolyzes broad-spectrum cephalosporins in a clinical isolate of Escherichia coli. Paul GC, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1958-63

Restriction maps of the regions coding for methicillin and tobramycin resistances on chromosomal DNA in methicillin-resistant staphylococci. Ubukata K, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1624-6

Characterization of a multiple antibiotic resistance plasmid from Haemophilus ducreyi. Willson PJ, et al. **Antimicrob Agents Chemother** 1989 Sep;33(9):1627-30

Mutation rates to 4-quinolone resistance. Smith JT. **Arzneimittelforschung** 1990 Jan;40(1):65-8

Molecular characterization of the two genes SNQ and SFA that confer hyperresistance to 4-nitroquinoline-N-oxide and formaldehyde in Saccharomyces cerevisiae. Gömpel-Klein P, et al. **Curr Genet** 1989 Aug;16(2):65-74

Plasmid--mediated drug resistance in enterobacteriaceae isolated at Gondar Hospital. Tiruneh M. **East Afr Med J** 1990 Apr;67(4):260-3

Genetic elements involved in Tn21 site-specific integration, a novel mechanism for the dissemination of antibiotic resistance genes. Martinez E, et al. **EMBO J** 1990 Apr; 9(4):1275-81

Conformational alterations in the ermC transcript in vivo during induction. Mayford M, et al. **EMBO J** 1989 Dec 20;8(13):4307-14

Acquisition of a drug resistance plasmid converts Salmonella enteritidis phage type 4 to phage type 24. Frost JA, et al. **Epidemiol Infect** 1989 Oct;103(2):243-8

Methylation of 23S ribosomal RNA due to carB, an antibiotic-resistance determinant from the carbomycin producer, Streptomyces thermotolerans. Zalacain M, et al. **Eur J Biochem** 1990 Apr 20;189(1):67-72

Resistance to quinolones in gram-negative microorganisms: mechanisms and prevention. Baquero F. **Eur Urol** 1990;17 Suppl 1:3-12 (72 ref.)

Plasmid-mediated resistance to fosfomycin in Staphylococcus epidermidis. Etienne J, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1-2):133-7

Plasmid analysis and antimicrobial susceptibilities of Peptostreptococcus species. Ng LK, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1-2):47-51

Nucleotide sequence analysis of IS256 from the Staphylococcus aureus gentamicin-tobramycin-kanamycin-resistance transposon Tn4001. Byrne ME, et al. **Gene** 1989 Sep 30;81(2):361-7

Cloning of Saccharomyces cerevisiae promoters using a probe vector based on phleomycin resistance. Gatignol A, et al. **Gene** 1990 Jul 2;91(1):35-41

Optimization of the hygromycin B resistance-conferring gene as a dominant selectable marker in mammalian cells. Giordano TJ, et al. **Gene** 1990 Apr 16;88(2):285-8

Construction of a neo fusion gene for expression in both prokaryotic and eukaryotic cells. Harwood AJ, et al. **Gene** 1990 Apr 16;88(2):279-83

Nucleotide sequence and transcriptional analysis of the nosiheptide-resistance gene from Streptomyces actuosus. Li Y, et al. **Gene** 1990 Jul 2;91(1):9-17

Yeast mutants conferring resistance to toxic effects of cloned human insulin-like growth factor I. Shuster JR, et al. **Gene** 1989 Nov 15;83(1):47-55

Interplay of novobiocin-resistant and -sensitive DNA gyrase activities in self-protection of the novobiocin producer, Streptomyces sphaeroides. Thiara AS, et al. **Gene** 1989 Sep 1;81(1):65-72

Antibiotic resistance mutations in the chloroplast 16S and 23S rRNA genes of Chlamydomonas reinhardtii: correlation of genetic and physical maps of the chloroplast genome. Harris EH, et al. **Genetics** 1989 Oct;123(2):281-92

Cloning by gene amplification of two loci conferring multiple drug resistance in Saccharomyces. Leppert G, et al. **Genetics** 1990 May;125(1):13-20

The changing pattern of antibiotic resistance of Neisseria gonorrhoeae. Easmon CS. **Genitourin Med** 1990 Apr; 66(2):55-6 (15 ref.)

'DNA' as contaminants in antibiotics and its capacity to transform bacteria to drug resistance. Chakrabarty AN, et al. **Indian J Exp Biol** 1990 Jan;28(1):58-62

Extended broad spectrum beta-lactamase in Klebsiella pneumoniae including resistance to cephamycins. Bauernfeind A, et al. **Infection** 1989 Sep-Oct;17(5):316-21

Biotinylated probes for epidemiological studies of drug resistance in Salmonella krefeld. Pilantanapak A, et al. **J Antimicrob Chemother** 1990 Apr;25(4):593-603

The epidemiology of beta-lactamases. Wiedemann B, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:1-22 (108 ref.)

Overexpression of a Streptomyces viridochromogenes gene (glnII) encoding a glutamine synthetase similar to those of eucaryotes confers resistance against the antibiotic phosphinothricyl-alanyl-alanine. Behrmann I, et al. **J Bacteriol** 1990 Sep;172(9):5326-34

Cloning of a lincosamide resistance determinant from Streptomyces caelestis, the producer of celesticetin, and characterization of the resistance mechanism. Calcutt MJ, et al. **J Bacteriol** 1990 Aug;172(8):4710–4

Cloning, nucleotide sequence, and expression of the chromate resistance determinant of Pseudomonas aeruginosa plasmid pUM505. Cervantes C, et al. **J Bacteriol** 1990 Jan; 172(1):287–91

Direct involvement of IS26 in an antibiotic resistance operon. Lee KY, et al. **J Bacteriol** 1990 Jun;172(6):3229–36

Differential mRNA stability controls relative gene expression within the plasmid-encoded arsenical resistance operon. Owolabi JB, et al. **J Bacteriol** 1990 May;172(5):2367–71

Organization of a cluster of erythromycin genes in Saccharopolyspora erythraea. Weber JM, et al. **J Bacteriol** 1990 May;172(5):2372–83

DNA probes for studying streptothricin resistance evolution in enteric bacteria. Tietze E, et al. **J Basic Microbiol** 1990; 30(4):279–87

Nucleotide sequence and expression of a plasmid-encoded chromate resistance determinant from Alcaligenes eutrophus. Nies A, et al. **J Biol Chem** 1990 Apr 5; 265(10):5648–53

Molecular characterization of an anion pump. The ArsB protein is the membrane anchor for the ArsA protein. Tisa LS, et al. **J Biol Chem** 1990 Jan 5;265(1):190–4

Factors affecting conjugal transfer of plasmids encoding mercury resistance from pure cultures and mixed natural suspensions of epilithic bacteria. Rochelle PA, et al. **J Gen Microbiol** 1989 Feb;135 (Pt 2):409–24

Absence of role for plasmids in resistance to multiple disinfectants in three strains of bacteria. Nagai I, et al. **J Hosp Infect** 1990 Feb;15(2):149–55

The basis of antibiotic resistance in bacteria. Shafran SD. **J Otolaryngol** 1990 Jun;19(3):158–68 (60 ref.)

Cauliflower mosaic virus promoters direct efficient expression of a bacterial G418 resistance gene in Schizosaccharomyces pombe. Gmünder H, et al. **Mol Gen Genet** 1989 Dec;220(1):95–101

Gene amplification associated with the dominant cob–354 cobalt resistance trait in Dictyostelium discoideum. Jensen SL, et al. **Mol Gen Genet** 1989 Dec;220(1):25–32

Genetic transfer systems in Bacteroides: cloning and mapping of the transferable tetracycline–resistance locus. Guiney DG, et al. **Mol Microbiol** 1989 Nov;3(11):1617–23

Structure and function of hot spots providing signals for site–directed specific recombination and gene expression in Tn21 transposons. Schmidt FR, et al. **Mol Microbiol** 1989 Nov;3(11):1545–55

Stable expression of the bacterial neor gene in Leishmania enriettii. Laban A, et al. **Nature** 1990 Feb 8;343(6258):572–4

The nucleotide sequence of tabtoxin resistance gene (ttr) of Pseudomonas syringae pv. tabaci. Anzai H, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1890

Nucleotide sequence of the erythromycin resistance gene from the Corynebacterium plasmid pNG2. Hodgson AL, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1891

Nucleotide sequence of a gene that encodes resistance to ethidium bromide from a transferable plasmid in Staphylococcus aureus. Sasatsu M, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10103

Sequence of the Bacillus subtilis spectinomycin resistance gene region. Yoshikawa H, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1647

Antibiotic resistance in enterococci at a teaching hospital. Dryden M. **Pathology** 1989 Jul;21(3):177–9

Inter– and intraspecies spread of Escherichia coli in a farm environment in the absence of antibiotic usage. Marshall B, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6609–13

Antimicrobial drug resistance and resistance factor transfer among clinical isolates of salmonellae in Iran. Farhoudi–Moghaddam AA, et al. **Scand J Infect Dis** 1990; 22(2):197–203

[Mechanisms of bacterial resistance to antibiotics and changes in drug resistance] Wang F. **Chung Hua Nei Ko Tsa Chih** 1989 Nov;28(11):691–4 (14 ref.) **(Chi)**

[Molecular and epidemiological bases of bacterial resistance to antibiotics] Guillot JF. **Ann Rech Vet** 1990;21(1):1–11 (22 ref.) (Eng. Abstr.) **(Fre)**

[Genetic nature of the antibiotic–resistance of Lactobacillus] Tiurin MV, et al. **Antibiot Khimioter** 1989 Jul;34(7):539–45 (Eng. Abstr.) **(Rus)**

[Determinants of resistance to chlortetracycline and other antibiotics in chlortetracycline–producing strain of Streptomyces aureofaciens] Chinenova TA, et al. **Genetika** 1990 Apr;26(4):636–47 (Eng. Abstr.) **(Rus)**

[The effect of oxygen deficiency on the stability of the yeast Saccharomyces cerevisiae to the polyenic antibiotic nystatin] Ekhvalova TV, et al. **Mikrobiologila** 1989 Mar–Apr;58(2):199–201 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

The interest of follow–up of resistance of the tubercle bacillus in the evaluation of a programme. Boulahbal F, et al. **Bull Int Union Tuberc Lung Dis** 1989 Sep;64(3):23–5

PHYSIOLOGY

Antibiotic resistance, plasmid profile, auxotypes and serovars of Neisseria gonorrhoeae strains isolated in Sevilla (Spain). Palomares JC, et al. **Genitourin Med** 1990 Apr;66(2):87–90

Effect of salicylates on antibiotic sensitivity. Esposito S, et al. **J Chemother** 1990 Apr;2(2):87–90

[Bacterial resistance to antibiotics: biologic and ecologic aspects] Cavallo G. **G Batteriol Virol Immunol** 1988 Jan–Dec;81(1–12):96–116 (18 ref.) (Eng. Abstr.) **(Ita)**

[Mechanisms of drug resistance of Escherichia isolated from cosmonauts] Il'in VK. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):90–1 **(Rus)**

DRUG SCREENING

An example of the role of the animal model in investigating new techniques [letter] Cosolo WC, et al. **Eur J Cancer Clin Oncol** 1989 Oct;25(10):1511–2

Nedocromil sodium (Tilade): a review of preclinical studies. Rainey DK. **Eur Respir J Suppl** 1989 Jun;6:561s–565s (29 ref.)

Suitability of laboratory animals for screening anti–hyperlipidemic agents. Rajwade N, et al. **J Postgrad Med** 1989 Jul;35(3):162–70

A novel system for screening antiretroviral agents. Savatier N, et al. **J Virol Methods** 1989 Nov;26(2):229–35

The role of experimental toxicology in safety evaluation: challenges facing the pharmaceutical industry. Kapeghian JC, et al. **Med Res Rev** 1990 Apr–Jun;10(2):271–80

Evaluation of drug safety by toxicological test procedures as provided by regulatory laws: an overview. Caprino L. **Pharmacol Res** 1990 May–Jun;22(3):253–62 (31 ref.)

Proposals for improving risk assessment in reproductive toxicology. Gabrielsson JL, et al. **Pharmacol Toxicol** 1990 Jan;66(1):10–7 (57 ref.)

Triggers for higher–order toxicity testing. Schwetz BA, et al. **Toxicol Lett** 1989 Dec;49(2–3):171–9 (5 ref.)

[Arthroluxyl—the patient as a test object? (letter)] Beijer HA, et al. **Tijdschr Diergeneeskd** 1990 Jan 15;115(2):77 **(Dut)**

[Experimental model of heuristic decision making in experiments on rats for pharmacologic screening] Chernov IuN, et al. **Farmakol Toksikol** 1989 Jul–Aug;52(4):96–9 (Eng. Abstr.) **(Rus)**

METHODS

Evaluation of new antiviral agents: I. In vitro perspectives. Hu JM, et al. **Antiviral Res** 1989 Jun–Jul;11(5–6):217–32 (47 ref.)

Reduction and replacement of laboratory animals in toxicological testing and research. Interim report 1984–1987. Zbinden G. **Biomed Environ Sci** 1988 Jun; 1(1):90–100 (27 ref.)

Fixed dose procedures for tests on animals [editorial] Dayan AD. **BMJ** 1990 Jul 14;301(6743):72–3

Multistep scheme for testing immunomodulatory substances. Macela A, et al. **Bratisl Lek Listy** 1989 Oct;90(10):719–31 **(Eng, Cze)**

A rapid in vitro screening system for the identification and evaluation of anticancer drugs. Kao JW, et al. **Cancer Invest** 1989;7(4):303–11

A screening method for antifungal substances using Saccharomyces cerevisiae strains resistant to polyene macrolides. Etienne G, et al. **J Antibiot (Tokyo)** 1990 Feb; 43(2):199–206

Research and development of new medicines. Ankier SI, et al. **J Int Med Res** 1989 Sep–Oct;17(5):407–16 (17 ref.)

Flow cytometric analysis of virus–infected cells and its potential use for screening antiviral agents. Steele–Mortimer OA, et al. **J Virol Methods** 1990 Mar; 27(3):241–52

Screening for neurotoxicity: complementarity of functional and morphologic techniques. Mattsson JL, et al. **Toxicol Pathol** 1990;18(1 Pt 2):115–27 (43 ref.)

[Different viewpoints on preclinical immunotoxicologic tests in vivo and in vitro] Procházková J, et al. **Cesk Farm** 1989 Jul;38(5):233–5 **(Cze)**

[Experimental methodology on pharmacological studies on crude drugs] Harada M. **Eisei Shikenjo Hokoku** 1989; (107):1–16 (28 ref.) (Eng. Abstr.) **(Jpn)**

STANDARDS

[Prerequisites for phase I and phase II clinical trials of drugs] Jaillon P, et al. **Arch Mal Coeur** 1989 Oct;82(10):1773–6 **(Fre)**

DRUG SCREENING ASSAYS, ANTITUMOR

Expression of P–glycoprotein in epithelial ovarian cancer: evaluation as a marker of multidrug resistance. Rubin SC, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):69–73

In vitro chemosensitivity testing in the treatment of ovarian carcinoma. Auner H, et al. **Arch Gynecol Obstet** 1989; 246(4):227–31

Sodium butyrate enhances the activities of membranal enzymes and increases drug sensitivity in a cell line from ascitic fluid of an ovarian carcinoma patient. Wasserman L, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1765–8

An aid to the selection of chemotherapy regimens for oral cavity carcinomas. Early results of a study of 5–year survival based on antioncogram selection of anti–cancer drugs. Metelmann HR, et al. **Int J Oral Maxillofac Surg** 1990 Feb;19(1):44–6

Pharmacologically guided phase I clinical trials based upon preclinical drug development. Collins JM, et al. **J Natl Cancer Inst** 1990 Aug 15;82(16):1321–6

Correlation of in vitro drug–sensitivity testing results with response to chemotherapy and survival in extensive–stage small cell lung cancer: a prospective clinical trial [see comments] Gazdar AF, et al. **J Natl Cancer Inst** 1990 Jan 17;82(2):117–24 Comment in: J Natl Cancer Inst 1990 Jan 17;82(2):82–3.

Preclinical evaluation of illudins as anticancer agents: basis for selective cytotoxicity. Kelner MJ, et al. **J Natl Cancer Inst** 1990 Oct 3;82(19):1562–5

A critical appraisal of the predictive value of in vitro chemosensitivity assays. Phillips RM, et al. **J Natl Cancer Inst** 1990 Sep 19;82(18):1457–68 (157 ref.)

Chemosensitivity tests in colorectal cancer patients. Yanagawa E, et al. **Jpn J Surg** 1989 Jul;19(4):432–8

In vitro chemosensitivity testing and its clinical application in human gliomas. Yung WK. **Neurosurg Rev** 1989; 12(3):197–203 (47 ref.)

[Results of antineoplastic chemotherapy based on the oncobiogram] Ebert A, et al. **Arch Geschwulstforsch** 1989; 59(6):455–61 (Eng. Abstr.) **(Ger)**

[Individualization of chemotherapy through in vitro predictive determination of the cytostatic sensitivity of malignant tumors] Dietel M, et al. **Dtsch Med Wochenschr** 1989 Oct 27;114(43):1645–52 (Eng. Abstr.) **(Ger)**

[Chemosensitivity test and its clinical application] Inoue K. **Gan No Rinsho** 1989 Oct;35(13):1535–40 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Chemosensitivity testing of anticancer agents in head and neck tumors. I: Comparison between head and neck squamous cell cancers and thyroid cancers] Nakashima T, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):79–84 (Eng. Abstr.) **(Jpn)**

[Antitumor drugs and potentiators aiming circumvention of drug resistance] Suzuki H. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 1):335–41 (Eng. Abstr.) **(Jpn)**

[Comparative studies on DNA ploidy pattern and drug sensitivity of human tumors: preliminary report] Tanigawa N, et al. **Nippon Geka Gakkai Zasshi** 1989 Aug;90(8):1286 **(Jpn)**

[The meaning and prospect of chemosensitivity tests] Kojima A, et al. **Rinsho Byori** 1989 Jul;(Spec No 82):98–105 (26 ref.) **(Jpn)**

[In vitro chemosensitivity test: succinate dehydrogenase inhibition (SDI) test] Maehara Y, et al. **Rinsho Byori** 1990 Jan;38(1):14–8 (Eng. Abstr.) **(Jpn)**

[Studies on anti–tumor activity of crude drugs. II. The effects of aqueous extracts of some crude drugs in shortterm screening test. (2)] Sato A. **Yakugaku Zasshi** 1990 Feb; 110(2):144–54 (Eng. Abstr.) **(Jpn)**

METHODS

A rapid and simple assay to prevent over–treatment of ovarian carcinoma [letter] Meulendijk PN, et al. **Acta Cytol** 1990 Mar–Apr;34(2):284–5

Drug sensitivity testing of human breast cancer. Tveit KM, et al. **Acta Oncol** 1990;29(3):335–8 (11 ref.)

Sensitivity to purine analogues in childhood leukemia assessed by the automated MTT–assay. Pieters R, et al. **Adv Exp Med Biol** 1989;253A:447–54

In vitro drug sensitivity testing with agar–containing glass capillaries. Lathan B, et al. **Anticancer Res** 1990 Jul–Aug; 10(4):1075–8

Chemosensitivity testing of human lung cancer tissues using the succinate dehydrogenase inhibition test. Mitsudomi T, et al. **Anticancer Res** 1990 Jul–Aug;10(4):987–90

A rapid in vitro method for the evaluation of potential antitumor drugs requiring metabolic activation by hepatic S9 enzymes. Lebsanft J, et al. **Biochem Pharmacol** 1989 Dec 15;38(24):4477–83

Characterization of a human tumour cell line panel for screening of anti–tumour agents in vitro. Fricker SP, et al. **Biochem Soc Trans** 1989 Dec;17(6):1049–50

Flow cytometric analysis of Hoechst 33342 uptake as an indicator of multi–drug resistance in human lung cancer. Morgan SA, et al. **Br J Cancer** 1989 Sep;60(3):282–7

A feasibility study of the MTT assay for chemosensitivity testing in ovarian malignancy. Wilson JK, et al. **Br J Cancer** 1990 Aug;62(2):189–94

Drug sensitivity assays in leukaemia and lymphoma. Veerman AJ, et al. **Br J Haematol** 1990 Apr;74(4):381–4 (51 ref.)

Chemotherapy screening assay using 3–dimensional cell culture. Kupchik HZ, et al. **Cancer Lett** 1990 May 15; 51(1):11–6

Postconfluency MDCK monolayers as an in vitro model of solid tumor chemosensitivity. Skehan P, et al. **Cell Biol Toxicol** 1986 Sep;2(3):357–68

Relationship of DNA ploidy to chemoresistance of tumors as measured by in vitro tests. Volm M, et al. **Cytometry** 1990;11(3):406–10

Comparative chemosensitivity profiles in four human ovarian carcinoma cell lines measuring ATP bioluminescence. Petru E, et al. **Gynecol Oncol** 1990 Aug;38(2):155–60

Dose intensity versus total dose of chemotherapy: an experimental basis. Skipper HE. **Important Adv Oncol** 1990; :43–64 (8 ref.)

A comparison of two assays for the in vitro chemosensitivity testing of human acute non–lymphoblastic leukemia cells. Dal Pozzo O, et al. **J Chemother** 1989 Oct;1(5):318–23

Comparison of the subrenal capsule assay and succinate dehydrogenase inhibition test. Iwagaki H, et al. **J Med** 1989;

20(3–4):251–60
Natural products as a source of potential cancer chemotherapeutic and chemopreventive agents. Cassady JM, et al. **J Nat Prod** 1990 Jan–Feb;53(1):23–41 (138 ref.)
In defense of cell–line screening. Chabner BA. **J Natl Cancer Inst** 1990 Jul 4;82(13):1083–5
Screening methods in antineoplastic drug discovery [editorial] Johnson RK. **J Natl Cancer Inst** 1990 Jul 4; 82(13):1082–3
Highly specific prediction of antineoplastic drug resistance with an in vitro assay using suprapharmacologic drug exposures. Kern DH, et al. **J Natl Cancer Inst** 1990 Apr 4;82(7):582–8
Comperison of in vitro anticancer–drug–screening data generated with a tetrazolium assay versus a protein assay against a diverse panel of human tumor cell lines. Rubinstein LV, et al. **J Natl Cancer Inst** 1990 Jul 4; 82(13):1113–8
Chemosensitivity testing: another chapter [editorial; comment] Salmon SE. **J Natl Cancer Inst** 1990 Jan 17; 82(2):82–3 Comment on: J Natl Cancer Inst 1990 Jan 17;82(2):110–6. Comment on: J Natl Cancer Inst 1990 Jan 17;82(2):117–24.
New colorimetric cytotoxicity assay for anticancer–drug screening. Skehan P, et al. **J Natl Cancer Inst** 1990 Jul 4;82(13):1107–12
He's not going to talk about in vitro predictive assays again, is he? Von Hoff DD. **J Natl Cancer Inst** 1990 Jan 17; 82(2):96–101 (72 ref.)
Chemosensitivity testing of human gliomas using a fluorescent microcarrier technique. Bowles AP Jr, et al. **J Neurooncol** 1990 Apr;8(2):103–12
Chemotherapeutic drug sensitivity testing of human leukemia cells in vitro using a semiautomated fluorometric assay. Larsson R, et al. **Leukemia** 1990 Aug;4(8):567–71
Adriamycin response of two human tumor xenografts using a double–radiolabel organ culture method. Sullivan JL, et al. **Neoplasma** 1989;36(6):685–90
A new in vitro screening system for anticancer drugs for the treatment of non–small cell lung cancer. Hanauske U, et al. **Sel Cancer Ther** 1989;5(3):97–111
Cellular viability in human tumor micro–organ cultures: in situ quantitation by image processing. Rotman B, et al. **Sel Cancer Ther** 1989 Winter;5(4):185–92
A device for the production of fresh tumor slices for cytotoxic drug testing. Elprana D, et al. **Tumour Biol** 1989; 10(6):324–9
Chemosensitivity testing of primary human renal cell carcinoma by a tetrazolium based microculture assay (MTT). Mickisch G, et al. **Urol Res** 1990;18(2):131–6
[Basic study on the chemosensitivity test by miniaturized improved nucleic acid precursor incorporation assay (MINI assay)] Mogi M, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):89–95 (Eng. Abstr.) **(Jpn)**
[Sensitivity test for anti–tumor agents. 1. Application of human cord serum—as cellular growth factor] Wada Y, et al. **Gan To Kagaku Ryoho** 1990 Jan;17(1):97–102 (Eng. Abstr.) **(Jpn)**
[SDI test using MTT for the evaluation of drug sensitivities of gastrointestinal cancer cells] Idota C, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Jan 20;25(1):85–93 (Eng. Abstr.) **(Jpn)**
[Study of flow cytometric BrdU/DNA assay] Shimabukuro T, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Jun 20; 24(6):1249–55 (Eng. Abstr.) **(Jpn)**
[The analysis of the difference in anti–cancer drug sensitivity of 3 clones separated from bladder cancer cell line] Terashima Y, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Dec;80(12):1720–7 (Eng. Abstr.) **(Jpn)**

STANDARDS

Current status of cancer drug development: failure or limited success? Grindey GB. **Cancer Cells** 1990 Jun;2(6):163–71 (61 ref.)

TRENDS

Drug discovery screen adapts to changes [news] Kerkvliet GJ. **J Natl Cancer Inst** 1990 Jul 4;82(13):1087–8

DRUG SCREENING TESTS, TUMOR–SPECIFIC see **DRUG SCREENING ASSAYS, ANTITUMOR**

DRUG SENSITIVITY ASSAY, MICROBIAL see **MICROBIAL SENSITIVITY TESTS**

DRUG STABILITY

Stability of drugs with enteral nutrient formulas. Strom JG Jr, et al. **DICP** 1990 Feb;24(2):130–4
Dry syrup formulations or kid tablets [letter] Bansal SK. **Indian Pediatr** 1990 Mar;27(3):306–7
Influence of temperature and hydrophobic group–associated icebergs on the activation energy of drug decomposition and its implication in drug shelf–life prediction. Kishore AK, et al. **Pharm Res** 1990 Jul;7(7):730–5
Expired medicines [letter] Barmania A. **S Afr Med J** 1990 Aug 18;78(4):218
[Stability of drugs] Liconti M. **Riv Eur Sci Med Farmacol** 1988 Feb;10(1):69–71 **(Ita)**

DRUG STORAGE

Beyond–use dating depends on storage [letter; comment] Palmer HA. **Am Pharm** 1989 Oct;NS29(10):6 Comment on: Am Pharm 1989 Jun;NS29(6):7.
Storage of vaccines in general practice. Hunter S. **BMJ** 1989 Sep 9;299(6700):661–2
Studies on E coli vaccines: effect of storage on endotoxin content. Hussaini SN. **Vet Rec** 1990 May 5;126(18):459–60

METHODS

Dilution and storage of recombinant tissue plasminogen activator (Activase) in balanced salt solutions. Ward C, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):98–9
Convenient and inexpensive system for low temperature preservation of enzymes during storage and use. Kranz R. **Biotechniques** 1989 May;7(5):455–6
Storing drugs safely. Farwell J. **Practitioner** 1990 Feb 22; 234(1483):183–4
Are the drugs in your bag effective? Treloar A. **Practitioner** 1989 Nov 8;233(1478):1435–6
[Drug storage and administration references. Drugs for cutaneous administration] Kircher W. **Med Monatsschr Pharm** 1990 Jun;13(6):187–90 **(Ger)**
[Drug use. Storage and administration references] Kircher W. **Med Monatsschr Pharm** 1990 Feb;13(2):49–51 **(Ger)**
[Drug administration. References for storage and packaging] Kircher W. **Med Monatsschr Pharm** 1990 Apr;13(4):115–7 (0 ref.) **(Ger)**

STANDARDS

Performance characteristics of urine dipsticks stored in open containers. Gallagher EJ, et al. **Am J Emerg Med** 1990 Mar;8(2):121–3
[Evaluation of the cold chain during the national antipoliomyelitis vaccination days. Mexico, 1987–1988] Camacho–Amor ML, et al. **Salud Publica Mex** 1990 Jan–Feb;32(1):43–51 (Eng. Abstr.) **(Spa)**

DRUG SURVEILLANCE, POSTMARKETING see **PRODUCT SURVEILLANCE, POSTMARKETING**

DRUG SYNERGISM

see related
COCARCINOGENESIS

Synergism through direct covalent bonding between agents: a strategy for rational design of chemotherapeutic combinations. Rideout D, et al. **Biopolymers** 1990 Jan; 29(1):247–62
What is synergy? [published erratum appears in Pharmacol Rev 1990 Sep;41(3):422] Berenbaum MC. **Pharmacol Rev** 1989 Jun;41(2):93–141 (564 ref.)

DRUG THERAPY

see related
MEDICATION ERRORS

AAFP approves policy against mandatory generic substitution. **Am Fam Physician** 1989 Nov;40(5):297, 301–2, 304
Re: Use of the term "pharmacoepidemiology" [letter; comment] Gerstman BB. **Am J Epidemiol** 1990 Jun; 131(6):1101 Comment on: Am J Epidemiol 1990 Feb;131(2):379.
Provision of pharmaceutical care [letter] Elliott RK, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1530
Monitoring specific variables in drug therapy [letter] Peterson CD. **Am J Hosp Pharm** 1990 Jul;47(7):1530
Impact of a pharmacist on medication discontinuation in a hospital–based geriatric clinic. Phillips SL, et al. **Am J Hosp Pharm** 1990 May;47(5):1075–9
Helping people make the best use of their medications [editorial] Zellmer WA. **Am J Hosp Pharm** 1990 Mar; 47(3):529
Studies on prehospital pharmacologic therapy [letter; comment] Jones SE, et al. **Ann Emerg Med** 1990 Mar; 19(3):340–1 Comment on: Ann Emerg Med 1989 Feb;18(2):192–6.
Clinical chronobiology. Cagnoni M, et al. **Ann Ital Med Int** 1986;1 Suppl 1:36–41 (10 ref.)
Drug research and drug development in the 21st century: science and ethics. Proceedings of the Bayer AG Centenary Symposium. Boppard/FR Germany, October 5–8, 1988. **Arzneimittelforschung** 1989 Aug;39(8A):935–1071
The impact of clinical trials on clinical practice. Furberg CD. **Arzneimittelforschung** 1989 Aug;39(8A):986–8
Patients want more information about the drugs they take [letter] Cook NJ, et al. **Aust N Z J Med** 1990 Feb;20(1):104
Nobel Lecture. The purine path to chemotherapy. Elion GB. **Biosci Rep** 1989 Oct;9(5):509–29 (157 ref.)
Good clinical practice: a way to better drugs [see comments] Hvidberg EF. **BMJ** 1989 Sep 2;299(6699):580–1 Comment in: BMJ 1989 Oct 28;299(6707):1103.
Nuclear magnetic resonance in clinical pharmacology and measurement of therapeutic response. Aellig WH. **Br J Clin Pharmacol** 1990 Feb;29(2):157–67 (81 ref.)
The value of therapeutic drug monitoring [letter] Cridland JS. **Br J Clin Pharmacol** 1990 Feb;29(2):278–9
A review of the factors associated with patient compliance and the taking of prescribed medicines. Griffith S. **Br J Gen Pract** 1990 Mar;40(332):114–6 (42 ref.)
Drugs in old age: new perspectives. **Br Med Bull** 1990 Jan; 46(1):1–291
"Disinformation" from pharmaceutical company representatives [letter] Gordon M. **Can Med Assoc J** 1990 Jun 1;142(11):1177–8
Alternate drugs. Adelman AM, et al. **Clin Geriatr Med** 1990 May;6(2):423–44 (176 ref.)
Drug treatment and quality of life in the elderly. Bulpitt CJ, et al. **Clin Geriatr Med** 1990 May;6(2):309–17 (31 ref.)
Clinical trials in the elderly. Pivotal points. Kitler ME. **Clin Geriatr Med** 1990 May;6(2):235–55 (119 ref.)
Compliance in the elderly. Weintraub M. **Clin Geriatr Med** 1990 May;6(2):445–52
Cigarettes and drug therapy: pharmacokinetic and pharmacodynamic considerations. Miller LG. **Clin Pharm** 1990 Feb;9(2):125–35 (114 ref.)
Pharmacokinetic investigations in elderly patients. Clinical and ethical considerations. Abernethy DR, et al. **Clin Pharmacokinet** 1990 Aug;19(2):89–93
The phenomenon and rationale of marked dependence of drug concentration on blood sampling site. Implications in pharmacokinetics, pharmacodynamics, toxicology and therapeutics (Part II). Chiou WL. **Clin Pharmacokinet** 1989 Oct;17(4):275–90 (166 ref.)
Drug therapy in patients undergoing continuous ambulatory peritoneal dialysis. Clinical pharmacokinetic considerations. Keller E, et al. **Clin Pharmacokinet** 1990 Feb;18(2):104–17 (115 ref.)
Proceedings of the 15th Japanese Society of Developmental Pharmacology and Therapeutics. October 29–30, 1988, Tokyo. Abstracts. **Dev Pharmacol Ther** 1990;14(1):66–76
Drug therapy in patients with diabetes mellitus: an audit. Paterson JR, et al. **Diabetes Res** 1989 Dec;12(4):169–71
Comment: pharmacotherapy and certification [letter] **DICP** 1990 Jun;24(6):644–6
An assessment of the drug therapy education preferences of an interdisciplinary group interested in the elderly. Elliott DP, et al. **DICP** 1990 May;24(5):460–3
Pharmacotherapy. Part I. A new pharmacy specialty. McLeod DC. **DICP** 1989 Nov;23(11):909–11
Pharmacotherapy. Part III. A process of certification. McLeod DC. **DICP** 1990 Jan;24(1):95–6
The relationship between comprehensive functional assessment and optimal pharmacotherapy in the older patient. Owens NJ, et al. **DICP** 1989 Nov;23(11):847–54 (85 ref.)
Measuring quality of life in clinical drug trials. Michalko KJ. **Dimens Health Serv** 1989 Nov;66(8):16–8, 20
Reviewing geriatric concerns with commonly used drugs. Cooper JW. **Geriatrics** 1989 Dec;44(12):79–86 (7 ref.)
Pharmacologic manipulation of the respiratory control center in the infant. Locke RG, et al. **J Am Osteopath Assoc** 1990 Jul;90(7):602–4, 607–12 (30 ref.)
The drug development process and clinical practice [editorial] Somberg JC. **J Clin Pharmacol** 1990 Aug; 30(8):673
Nutritional implications of medication use and misuse in elderly. Cook MC, et al. **J Fla Med Assoc** 1990 Jun; 77(6):606–13 (0 ref.)
Recent patterns of drug use in newborn intensive care. Lesko SM, et al. **J Pediatr** 1990 Jun;116(6):985–90
Determination of serum drug concentrations in the office [letter] Walson PD. **J Pediatr** 1990 Aug;117(2 Pt 1):345–6
Survey indicates 133 orphan drug products in development for 96 relatively rare disorders [news] Marwick C. **JAMA** 1989 Oct 27;262(16):2196
A Children's Health Belief Model. Bush PJ, et al. **Med Care** 1990 Jan;28(1):69–86
Medication compliance in the elderly. Stewart RB, et al. **Med Clin North Am** 1989 Nov;73(6):1551–63 (59 ref.)
Drug therapy in the elderly [letter; comment] Magner P. **N Engl J Med** 1990 Jan 11;322(2):134–5 Comment on: N Engl J Med 1989 Aug 3;321(5):303–9.
Professional liability. George JE, et al. **N J Med** 1990 Apr; 87(4):269–71
The overdose of drugs in Japan [published erratum appears in Nature 1990 Jan 11;343(6254):112] Fukushima M. **Nature** 1989 Dec 21–28;342(6252):850–1
Deutsche Gesellschaft für Pharmakologie und Toxikologie. Abstracts of the fall meeting. 18–21 September 1989, Köln. **Naunyn Schmiedebergs Arch Pharmacol** 1989;340 Suppl:R1–63
Drugs and chemicals: exposure of the nursing mother. Berlin CM Jr. **Pediatr Clin North Am** 1989 Oct;36(5):1089–97 (8 ref.)
Application of portable and implantable drug pumps to achieve an effective pharmacotherapy. Brouwers JR. **Pharm Weekbl [Sci]** 1990 Feb 23;12(1):30–1 (4 ref.)
Choice of drugs: always a compromise. Radhakishun FS. **Pharm Weekbl [Sci]** 1990 Feb 23;12(1):37
The symbolic role of drugs in the socialization of illness behaviour among Swedish children. Sachs L. **Pharm Weekbl [Sci]** 1990 Jun 22;12(3):107–11
Integration of pharmacotherapy. Van der Kuy A. **Pharm Weekbl [Sci]** 1990 Feb 23;12(1):35–6
Do prescribed drugs always follow the patients to hospital? Van Hessen PA, et al. **Pharm Weekbl [Sci]** 1990 Apr 27; 12(2):66–70
Clinical pharmacology and therapeutics. Kendall MJ, et al. **Postgrad Med J** 1990 Mar;66(773):166–85 (172 ref.)
How much can elderly patients tell us about their

medications? al Mahdy H, et al. **Postgrad Med J** 1990 Feb; 66(772):116–21
Suitability of collection tubes with separator gels for therapeutic drug monitoring. Koch TR, et al. **Ther Drug Monit** 1990 May;12(3):277–80
A comparison of venous versus capillary measurements of drug concentration. Murphy JE, et al. **Ther Drug Monit** 1990 May;12(3):264–7
Compliance with criteria necessary for effective drug concentration monitoring. Pearce GA, et al. **Ther Drug Monit** 1990 May;12(3):250–7
[Polyvalency of drugs and its importance in utilization analysis] Majtás J, et al. **Cesk Zdrav** 1989 Aug; 37(8–9):372–7 (Eng. Abstr.) (Cze)
[Drug therapy support during and following resuscitation] Pijls NH, et al. **Ned Tijdschr Geneeskd** 1990 Aug 18; 134(33):1593–6 (Dut)
[Health promotion or pills?] Aro A. **Duodecim** 1989; 105(22):1826–31 (Fin)
[Effects of preoperative and postoperative drugs on anesthesia] Laroche MA, et al. **Annee Ther Clin Ophtalmol** 1988;39:57–72; discussion 73–92 (Fre)
[Basic equipment for the medical emergency bag] Sefrin P. **Fortschr Med** 1990 May 10;108(14):280–1 (Ger)
[Possibilities of adjuvant drug therapy in replantation surgery] Freund E, et al. **Handchir Mikrochir Plast Chir** 1990 Jul;22(4):206–10 (Eng. Abstr.) (Ger)
[Drugs and health. 2. Study on the presence, use, storage and disposal of drugs in a sample of families in Adria (Rovigo) Local Health Unit 31, Venetian region] Gabriele ML, et al. **Ann Ig** 1989 Sep–Oct;1(5):1029–41 (Eng. Abstr.) (Ita)
[Drugs and health. 1. An experience with health education in a scholastic environment] Romano M, et al. **Ann Ig** 1989 Sep–Oct;1(5):1015–28 (Eng. Abstr.) (Ita)
[Use of the "N of 1" method for determining therapeutic choice: first experiences] Guercini G, et al. **Medicina (Firenze)** 1989 Apr–Jun;9(2):206–8 (Eng. Abstr.) (Ita)
[Clinical evaluation of therapeutic drug monitoring] Kubo H. **Nippon Rinsho** 1990 Feb;48 Suppl:1101–4 (Jpn)
[Plasma homocysteine, a risk factor for premature vascular disease. Plasma levels in healthy persons; during pathologic conditions and drug therapy] Ueland PM, et al. **Nord Med** 1989;104(11):293–8 (Eng. Abstr.) (Nor)
[Differences in pharmacokinetic and pharmacodynamic processes in elderly patients] Herman ZS. **Pol Arch Med Wewn** 1989 Jul;82(1):30–40 (Pol)
[Maintenance drug therapy] Zamotaev IP. **Klin Med (Mosk)** 1990 Apr;68(4):130–4 (Rus)
[Noncritical use of drugs in childhood] Milinković R. **Med Arh** 1988;42(4):217–20 (Scr)
[Nobel Prizes in Medicine 1988: pioneers in drug research (editorial)] Adler Graschinsky E. **Medicina (B Aires)** 1989; 48(6):707–8 (Spa)
[Use of drugs in a sample of users in primary health care] Turabian JL, et al. **Rev Sanid Hig Publica (Madr)** 1989 May–Jun;63(5–6):99–108 (Eng. Abstr.) (Spa)

ADVERSE EFFECTS

Risk factors for adverse drug reactions—epidemiological approaches. **Agents Actions Suppl** 1990;29:1–149
Old age—is it a risk for adverse drug reactions? Gurwitz JH, et al. **Agents Actions Suppl** 1990;29:13–25 (35 ref.)
Risk factors as reflected by an intensive drug monitoring system. Jacubeit T, et al. **Agents Actions Suppl** 1990; 29:117–25
Opportunities and responsibilities in pharmaceutical care. Hepler CD, et al. **Am J Hosp Pharm** 1990 Mar;47(3):533–43
Potential adverse drug interactions in the emergency room. An issue in the quality of care. Beers MH, et al. **Ann Intern Med** 1990 Jan 1;112(1):61–4
The role of medication noncompliance and adverse drug reactions in hospitalizations of the elderly. Col N, et al. **Arch Intern Med** 1990 Apr;150(4):841–5
Design and analysis of phase I clinical trials. Storer BE. **Biometrics** 1989 Sep;45(3):925–37
Erythropoietin prevents chemotherapy-induced anemia: case report. Oster W, et al. **Blut** 1990 Feb;60(2):88–92
'Well hidden sugar' [letter; comment] Mellor A. **Br Dent J** 1990 Jan 6;168(1):5 Comment on: Br Dent J 1989 Nov 11;167(9):303.
The future of automated record linkage for postmarketing surveillance: a response to Shapiro. Faich GA, et al. **Clin Pharmacol Ther** 1989 Oct;46(4):387–9
Automated record linkage: a response to the commentary and letters to the editor. Shapiro S. **Clin Pharmacol Ther** 1989 Oct;46(4):395–8
The role of automated record linkage in the postmarketing surveillance of drug safety: a critique [see comments] Shapiro S. **Clin Pharmacol Ther** 1989 Oct;46(4):371–86 (33 ref.) Comment in: Clin Pharmacol Ther 1990 Apr;47(4):547–8.
Automated data bases used for pharmacoepidemiology research. Strom BL, et al. **Clin Pharmacol Ther** 1989 Oct; 46(4):390–4
The importance of adverse reactions in drug regulation. Dukes MN. **Drug Saf** 1990 Jan–Feb;5(1):3–6
Immunotoxic side-effects of drug therapy. Mitchell JA, et al. **Drug Saf** 1990 May–Jun;5(3):168–78 (109 ref.)
Behavior of the exposure odds ratio in a case-control study when the hazard function is not constant over time. Guess HA. **J Clin Epidemiol** 1989;42(12):1179–84
Oral infections related to radiation and immunosuppressive therapy. Nikoskelainen J. **J Clin Periodontol** 1990 Aug;17(7 (Pt 2)):504–7 (11 ref.)
Controlled study of the impact of educational home visits by pharmacists to high-risk older patients. Sidel VW, et al. **J Community Health** 1990 Jun;15(3):163–74
Laboratory study of drug-related performance changes. Burns M, et al. **J Occup Med** 1990 Apr;32(4):320–6
Medication and the work environment. DeHart RL. **J Occup Med** 1990 Apr;32(4):310–2
Medication monitoring in the workplace: toward improving our system of epidemiologic intelligence. Tilson HH. **J Occup Med** 1990 Apr;32(4):313–9
Medication side effects of dental interest. Matthews TG. **J Prosthet Dent** 1990 Aug;64(2):219–26
Quality criteria for early signals of possible adverse drug reactions. Edwards IR, et al. **Lancet** 1990 Jul 21; 336(8708):156–8
Drugs that cause pulmonary toxicity. **Med Lett Drugs Ther** 1990 Sep 21;32(827):88–90
Reporting adverse drug therapy results. **Pa Med** 1990 Jun; 93(6):29
Drug interactions in the elderly. How multiple drug use increases risk exponentially. Cadieux RJ. **Postgrad Med** 1989 Dec;86(8):179–86 (14 ref.)
Supplements—a boon or a liability? [editorial] Kerrigan P. **Practitioner** 1989 Oct 8;233(1476):1263
Informed choice and risk-benefit decisions [editorial] Kerrigan P. **Practitioner** 1989 Nov 8;233(1478):1421
Drug prescribing during pregnancy. Jurecka W, et al. **Semin Dermatol** 1989 Mar;8(1):30–9 (70 ref.)
Drugs with anticholinergic side effects. Barkin RL, et al. **South Med J** 1989 Dec;82(12):1547–8
Liability for adverse drug reactions. Francisco CJ 3d. **Tex Med** 1990 May;86(5):42–6
[Drug-induced pneumopathies (excluding cytostatic drugs)] Akoun G, et al. **Ann Med Interne (Paris)** 1989;140(7):593–6 (Eng. Abstr.) (Fre)
[Drug-induced pleural pathology (excluding antineoplastic chemotherapy)] Haas C, et al. **Ann Med Interne (Paris)** 1989;140(7):589–92 (34 ref.) (Eng. Abstr.) (Fre)
[Acute renal insufficiency caused by drugs or iodinated contrast media. Results of a prospective and multicenter study in south Tunisia] Hachicha J, et al. **Ann Med Interne (Paris)** 1990;141(2):134–6 (Eng. Abstr.) (Fre)
[Bronchial manifestation of drug-induced complications] Hugues FC, et al. **Ann Med Interne (Paris)** 1989; 140(7):585–8 (Eng. Abstr.) (Fre)
[Drug-induced cardiovascular complications] Le Feuvre C, et al. **Ann Med Interne (Paris)** 1989;140(7):597–9 (Eng. Abstr.) (Fre)
[Mechanisms of undesirable effects of drugs] Royer RJ, et al. **Ann Med Interne (Paris)** 1989;140(7):618–9 (Eng. Abstr.) (Fre)
[Drug-induced bone pathology] Schiano A, et al. **Ann Med Interne (Paris)** 1989;140(7):605–8 (31 ref.) (Eng. Abstr.) (Fre)
[Undesirable psychiatric effects of drugs] Schulz P, et al. **Ann Med Interne (Paris)** 1989;140(7):614–7 (Eng. Abstr.) (Fre)
[Dermatologic manifestation of undesirable effects of drugs (excluding cytostatic drugs)] Villette B, et al. **Ann Med Interne (Paris)** 1989;140(7):609–13 (22 ref.) (Eng. Abstr.) (Fre)
[Drug interactions encountered by the dental practitioner] Sternon J. **Rev Belge Med Dent** 1989;44(4):13–20 (Eng. Abstr.) (Fre)
[Drug-induced esophagitis and its complications. Retrospective study of 30 case reports and review of 650 published cases (1970–1987)] Ollyo JB, et al. **Schweiz Rundsch Med Prax** 1990 Mar 27;79(13):394–7 (39 ref.) (Eng. Abstr.) (Fre)
[Adverse or toxic effects of drugs in medical practice: a one-year follow-up] Grange JC. **Therapie** 1990 Jul–Aug; 45(4):331–4 (Eng. Abstr.) (Fre)
[Fatal adverse effects (letter)] Haramburu F, et al. **Therapie** 1990 Jan–Feb;45(1):48–9 (Fre)
[Abnormal hormone values: do drugs play a role? Abnormal prolactin, TSH and thyroid hormone values] Gerber H. **Schweiz Med Wochenschr** 1990 Jun 9;120(23):847–54 (39 ref.) (Eng. Abstr.) (Ger)
[Surveillance and assessment of undesirable effects in drug treatment: pilot project] Hannig M, et al. **Soz Praventivmed** 1989;34(6):272–7 (Eng. Abstr.) (Ger)
[Drugs and fitness for flying] Frank PW. **Verh Dtsch Ges Inn Med** 1989;95:613–6 (Ger)
[Iatrogenic pathology: lupus syndromes caused by pharmacologic agents. Pathogenetic and immunologic aspects] Fiorio C, et al. **G Batteriol Virol Immunol** 1988 Jan–Dec;81(1–12):60–89 (131 ref.) (Ita)
[Drug-induced electrolyte and water disturbance in the aged] Kato E. **Nippon Ronen Igakkai Zasshi** 1989 May; 26(3):246–51 (Jpn)
[Acute drug-induced hepatitis] Polunina TE. **Klin Med (Mosk)** 1989 Oct;67(10):87–90 (Rus)
[Development of arterial hypotension and headache in children after medication] Nadezhdina EA. **Pediatriia** 1990; (3):77–81 (Rus)
[Gerontological aspects of bronchial asthma] Fedoseev GB, et al. **Sov Med** 1989;(10):71–4 (Rus)
[Esophagogastroduodenoscopy in acute poisoning by non-caustic substances] Sinev IuV, et al. **Sov Med** 1990; (1):72–4 (Rus)
[Is drug insurance used to the optimum?] Boström H. **Lakartidningen** 1990 May 9;87(19):1647 (Swe)

ECONOMICS

Drug use in a trauma intensive-care unit. Boucher BA, et al. **Am J Hosp Pharm** 1990 Apr;47(4):805–10
Evaluating the real costs of drug therapy [letter] Halpern GA. **Am J Hosp Pharm** 1989 Dec;46(12):2460–1
The risks of substitution of therapeutic modalities by cheaper and sometimes less effective agents [letter] Brook I. **Arch Intern Med** 1990 Mar;150(3):688–9
Regarding methotrexate pricing [letter] Gratwick GM. **Arthritis Rheum** 1990 Mar;33(3):450
Cost effective drug budgets [letter] Carter MG, et al. **BMJ** 1989 Nov 4;299(6708):1166–7
When the money runs out [letter] Hopkins R. **BMJ** 1990 Mar 31;300(6728):879
Impact of college of pharmacy-based educational services within the hospital. Mueller BA, et al. **DICP** 1990 Apr; 24(4):422–5
Who pays for AZT? Penslar RL, et al. **Hastings Cent Rep** 1989 Sep–Oct;19(5):30; discussion 30–2
Drugs used in skin outpatient—cost analysis. Prakash B, et al. **Indian J Public Health** 1988 Jul–Sep;32(3):166–7
Withdrawing payment for nonscientific drug therapy. Intended and unexpected effects of a large-scale natural experiment. Soumerai SB, et al. **JAMA** 1990 Feb 9; 263(6):831–9
Measurement of cost-effectiveness of drug therapy. A symposium. Melbourne, July 17, 1989. Proceedings. **Med J Aust** 1990 Aug 6;153 Suppl:S1–24
What is cost-effectiveness analysis? Evans DB. **Med J Aust** 1990 Aug 6;153 Suppl:S7–9
Reducing drug costs [letter; comment] Lexchin J. **N Z Med J** 1989 Jul 26;102(872):387 Comment on: N Z Med J 1989 Apr 12;102(865):165–7.
[An optimal schedule of antibacterial therapy as one of the factors determining its value (information materials)] Ukhin AV. **Antibiot Khimioter** 1989 Aug;34(8):624–9 (Rus)

HISTORY

Peter Harris Award lecture. History and prospects in calcium antagonist research. Fleckenstein A. **J Mol Cell Cardiol** 1990 Mar;22(3):241–51 (24 ref.)
Pharmaceutical theory in Galen's commentaries on the Hippocratic Epidemics: some observations on Roman views of Greek drug lore. Scarborough J. **Sudhoffs Arch Beih** 1989;(27):270–82
[Progress in chemotherapy in Japan] Fujii Y. **Nippon Rinsho** 1988 Jul;46 Suppl:15–24 (Jpn)
[Summary of achievements in drug therapy in the 20th century] Danysz A. **Pol Tyg Lek** 1988 Dec 19–26; 43(51–52):1643–6 (Pol)

INSTRUMENTATION

[Drug pumps] Mirouze J, et al. **Recenti Prog Med** 1990 Feb; 81(2):83–7 (13 ref.) (Eng. Abstr.) (Fre)

METHODS

Pharmacokinetics in old age. Tregaskis BF, et al. **Br Med Bull** 1990 Jan;46(1):9–21 (36 ref.)
Therapeutic drug monitoring (TDM): an aid to anti-epileptic drug (AED) therapy in Zimbabwe: a review. Nhachi CF, et al. **East Afr Med J** 1990 May;67(5):311–8
Antibody mediated targeting of radioisotopes, drugs and toxins in diagnosis and treatment. Ford CH, et al. **Indian J Pediatr** 1990 Jan–Feb;57(1):29–46 (213 ref.)
Newer aspects of drug therapy in the elderly. Caird FI. **Klin Wochenschr** 1990 Jun 19;68(12):623–6 (28 ref.)
The future of neonatal therapeutic drug monitoring. Giacoia GP. **Ther Drug Monit** 1990 Jul;12(4):311–5 (30 ref.)
[Organ-oriented administration of drugs; sense and nonsense] Daemen MJ, et al. **Ned Tijdschr Geneeskd** 1989 Oct 21; 133(42):2063–7 (35 ref.) (Dut)
[Gerontology—necessary information for all practicing physicians] Gross R. **Fortschr Med** 1990 Jun 30; 108(19):369–70 (Ger)

PSYCHOLOGY

A model of methods for influencing prescribing: Part II. A review of educational methods, theories of human inference, and delineation of the model. Raisch DW. **DICP** 1990 May;24(5):537–42 (49 ref.)
Medication compliance in children. Shah KN, et al. **Indian J Pediatr** 1989 Sep–Oct;56(5):645–52
A randomized study of inpatient versus outpatient continuous intravenous infusion chemotherapy: psychosocial aspects. Magid DM, et al. **Sel Cancer Ther** 1989;5(3):137–45
[Drug taking behavior of internal medicine inpatients] Ziessler M, et al. **Z Gesamte Inn Med** 1990 Mar 15; 45(6):158–61 (Eng. Abstr.) (Ger)
[The color of drugs: a preliminary survey] Sebellico A. **Boll Soc Ital Biol Sper** 1989 Jul;65(7):685–7 (Eng. Abstr.) (Ita)

STANDARDS

Evaluating effectiveness of pharmaceuticals. Jankel CA. **Am J Hosp Pharm** 1990 Jul;47(7):1633–5

Pharmaceutical care: pharmacy's mission for the 1990s. Penna RP. **Am J Hosp Pharm** 1990 Mar;47(3):543–9

Effect of reactive pharmacy intervention on quality of hospital prescribing. Hawkey CJ, et al. **BMJ** 1990 Apr 14; 300(6730):986–90

Pharmacotherapy. Part II. Administering the certification process [editorial] [published erratum appears in DICP 1990 Mar;24(3):329] McLeod DC. **DICP** 1989 Dec;23(12):1031

Boards in clinical pharmacology: portent for pharmacy and pharmacotherapy [editorial] McLeod DC. **DICP** 1990 Jul–Aug;24(7–8):779–80

25 years of the Committee on Safety of Medicines. An international perspective of the benefits. Bem JL, et al. **Drug Saf** 1990 May–Jun;5(3):161–7

Geriatric emergency clinical pharmacology. Fox FJ, et al. **Emerg Med Clin North Am** 1990 May;8(2):221–39 (90 ref.)

Clinical pharmacology and primary health care in Europe—a gap to bridge. The WHO Working Group on Clinical Pharmacology in Europe. Dukes G, et al. **Eur J Clin Pharmacol** 1990;38(4):315–8

Keeping an eye on older patients and their drugs. Anderson EG. **Geriatrics** 1990 May;45(5):81–2

Economics & the pharmacy. Souhrada L. **Hospitals** 1990 Oct 5;64(19):52, 54, 56

Improving medication prescribing and utilization in the nursing home. Gurwitz JH, et al. **J Am Geriatr Soc** 1990 May;38(5):542–52 (92 ref.)

Generic drugs: potential public health threat. MacLeod GK. **Pa Med** 1990 Jan;93(1):20–2

Therapeutic drug monitoring in oncology [editorial] Aarbakke J. **Pediatr Hematol Oncol** 1990;7(1):1–2

[Drugs and the elderly; current advances in geriatric clinical pharmacology] Offerhaus L. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2315–20 (63 ref.) (Dut)

[Characteristics of geriatric pharmacotherapy] Zamotaev IP. **Sov Med** 1990;(2):19–23 (Rus)

STATISTICS & NUMERICAL DATA

Self-reported medical conditions and drug use among elderly dental patients. McDermott RE, et al. **J Can Dent Assoc** 1990 Mar;56(3):219–21

Unfavorable outcomes of drug therapy [letter; comment] Hill ID. **J Clin Pharm Ther** 1989 Dec;14(6):481–2 Comment on: J Clin Pharm Ther 1988 Jun;13(3):213–7.

[Medication among pensioners in homes for the aged and nursing homes] Rørvik FB, et al. **Tidsskr Nor Laegeforen** 1990 Apr 30;110(11):1335–8 (Eng. Abstr.) (Nor)

[The use of drugs in prisons (letter)] Figueras i Suñé A, et al. **Gac Sanit** 1989 Sep–Oct;3(14):530–1 (Spa)

TRENDS

Panel discussion. II: Objectives of basic research and predictive value preclinical testing. Hoffmeister F, et al. **Arzneimittelforschung** 1989 Aug;39(8A):1035–40

Prescription for the '90s. Todd B. **Geriatr Nurs (New York)** 1990 May–Jun;11(3):114–5

Chemotherapy in Japan. Its dawn and development. Fujii R. **Jpn J Antibiot** 1989 Nov;42(11):2317–23

[Pharmacology and pharmacotherapy in Japan] Van Zwieten PA. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):549–50 (Dut)

[Where is pharmacology going in the 21st century?] Lechat P. **Bull Mem Acad R Med Belg** 1988;143(10–12):422–8 (Eng. Abstr.) (Fre)

[Development of antibiotherapy and new trends] Bergogne-Berezin E. **Presse Med** 1990 Mar 3;19(8):373–7 (Eng. Abstr.) (Fre)

[Therapeutic news 1988–1989] Scheen A, et al. **Rev Med Liege** 1989 Sep 1;44(17):505–16 (8 ref.) (Fre)

[Drug prescriptions in general practice] Hügel A, et al. **Z Arztl Fortbild (Jena)** 1989;83(22):1111–3 (Ger)

[Nontraditional areas for the use of pharmacologic preparations based on research on the molecular mechanisms of their action] Piruzian LA, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov–Dec;(6):838–42 (19 ref.) (Eng. Abstr.) (Rus)

[Drug therapy of major gastroenterologic diseases] Ryss ES, et al. **Sov Med** 1989;(11):37–41 (Rus)

[Clinical pharmacology and problems of drug therapy in the clinical picture of internal diseases] Moiseev VS, et al. **Ter Arkh** 1989;61(8):6–10 (Rus)

[The progress of pharmacology and the therapeutic revolution] Penna M. **Rev Med Chil** 1988 Nov; 116(11):1201–6 (Eng. Abstr.) (Spa)

UTILIZATION

Polymedicine use among community resident older women: how much a problem? Cadigan DA, et al. **Am J Public Health** 1989 Nov;79(11):1537–40

Drugs prescribed for elderly patients in nursing homes or under medical home care. Andersson M. **Compr Gerontol [A]** 1989;3 Suppl:8–15

Inconsistencies in the drug use process. Hutchinson RA, et al. **DICP** 1990 Jun;24(6):633–6

A model of methods for influencing prescribing: Part I. A review of prescribing models, persuasion theories, and administrative and educational methods. Raisch DW. **DICP** 1990 Apr;24(4):417–21

Health complaints and drug consumption during the first 18 months of life. Håkansson A. **Fam Pract** 1989 Sep; 6(3):210–6

Reducing polypharmacy in the elderly. A controlled trial of physician feedback. Kroenke K, et al. **J Am Geriatr Soc** 1990 Jan;38(1):31–6

Drugs and diarrhoea. Khan MA, et al. **J Indian Med Assoc** 1989 May;87(5):125–6

Patient compliance with therapeutic advice: a modern view. Fletcher RH. **Mt Sinai J Med** 1989 Nov;56(6):453–8 (17 ref.)

Patterns of drug consumption and reported morbidity in Salamanca (Spain). Saenz MC, et al. **Rev Epidemiol Sante Publique** 1989;37(4):353–61

[Scientific pharmacotherapy in nursing homes and ambulatory management of elderly citizens] Bär K. **Z Arztl Fortbild (Jena)** 1989;83(14):731–3 (Ger)

VETERINARY

Drug therapy in cats: mechanisms and avoidance of adverse drug reactions. Boothe DM. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1297–305 (47 ref.)

Review of product licences [letter] Evans J. **Vet Rec** 1990 Feb 17;126(7):177

[Will the veterinarian still have a pharmacy after/towards 1992?] de Maar RE. **Tijdschr Diergeneeskd** 1990 Feb 1; 115(3):141–3 (Dut)

[Toxicological considerations in the evaluation of veterinary drugs] Jager LP, et al. **Tijdschr Diergeneeskd** 1990 Aug 15;115(15–16):727–35 (Eng. Abstr.) (Dut)

[Veterinary drugs and good veterinary practice] van Miert AS. **Tijdschr Diergeneeskd** 1990 Feb 1;115(3):125–31 (Eng. Abstr.) (Dut)

DRUG THERAPY, COMBINATION

see related
ANTINEOPLASTIC AGENTS, COMBINED

Application of the isobologram technique for the analysis of combined effects with respect to additivity as well as independence. Pöch G, et al. **Can J Physiol Pharmacol** 1990 Jun;68(6):682–8

Reducing polypharmacy in the elderly. A controlled trial of physician feedback. Kroenke K, et al. **J Am Geriatr Soc** 1990 Jan;38(1):31–6

The superiority of a drug combination over each of its components. Gibson JM, et al. **Stat Med** 1989 Dec; 8(12):1479–84

[Polypharmacy in patients of a geriatric department of a general hospital] Olde Rikkert MG, et al. **Tijdschr Gerontol Geriatr** 1990 Apr;21(2):51–9 (Eng. Abstr.) (Dut)

[Drug interactions in combination pharmacotherapy] Skorobogatyĭ AM. **Vrach Delo** 1990 May;(5):92–4 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Mucocutaneous side effects of chemotherapy. Dreno B. **Biomed Pharmacother** 1990;44(3):163–7 (40 ref.)

DRUG THERAPY, COMPUTER-ASSISTED see under **THERAPY, COMPUTER-ASSISTED**

DRUG TOLERANCE

Conditioned taste aversion elicited by intracerebral administration of drugs. Bureš J, et al. **Acta Physiol Hung** 1989;74(1):77–93 (85 ref.)

Exogenous lactase in the treatment of oral acyclovir intolerance. Manka RL. **Am J Ophthalmol** 1989 Dec 15; 108(6):733

Safety profile of quinolones. Shah PM, et al. **Eur Urol** 1990; 17 Suppl 1:46–51 (13 ref.)

Sulfamethazine tolerance reduced [news] **J Am Vet Med Assoc** 1990 Mar 15;196(6):851

Developmental profile of glutamine synthetase in lines of mice bred for ethanol sensitivity. Sakellaridis N, et al. **J Neurosci Res** 1989 Nov;24(3):391–7

Time course characteristics of tolerance development to continuously infused antinociceptive agents in rat spinal cord. Stevens CW, et al. **J Pharmacol Exp Ther** 1989 Oct; 251(1):216–23

Role of adrenal glucocorticoids in the blockade of the development of analgesic tolerance to morphine by footshock stress exposure in mice. Takahashi M, et al. **Jpn J Pharmacol** 1989 Nov;51(3):329–36

[Tolerance of treatment with nitrate derivatives] Isnard R, et al. **Arch Mal Coeur** 1990 Apr;83(4):543–7 (30 ref.) (Eng. Abstr.) (Fre)

PHYSIOLOGY

Role of adrenal glucocorticoids in the blockade of the development of analgesic tolerance to morphine by footshock stress exposure in mice. Takahashi M, et al. **Jpn J Pharmacol** 1989 Nov;51(3):329–36

Blockade of the development of analgesic tolerance to morphine by psychological stress through benzodiazepine receptor mediated mechanism. Tokuyama S, et al. **Jpn J Pharmacol** 1989 Nov;51(3):425–7

Is intracellular sodium involved in the mechanism of tolerance to opioid drugs? Brase DA. **Med Hypotheses** 1990 Jul;32(3):161–7 (88 ref.)

Electrophysiological evidence that tolerance and dependence phenomena are reflected at the ventrobasal (VB) thalamic level in arthritic rats. Kayser V, et al. **Prog Clin Biol Res** 1990;328:437–40

DRUG USE DISORDERS see **SUBSTANCE USE DISORDERS**

DRUG UTILIZATION

Impact of media on drug consumption. Toutoungi M. **Agressologie** 1989 Oct–Nov;30(9–10):545–6

Applying drug-use evaluation principles to investigational or unlabeled drug use. Farber MS, et al. **Am J Hosp Pharm** 1990 Mar;47(3):598–9

Drug-use evaluation programs for psychotropic medications. Goad JD, et al. **Am J Hosp Pharm** 1990 Jan;47(1):132–6

Influencing prescribing behavior by adapting computerized order-entry pathways. Kawahara NE, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1798–801

Pharmacy-coordinated process for evaluating physician drug prescribing. Peterson CD, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1787–91

Impact of a hospital-based target drug program on institutional and community prescribing behavior. Taketomo RT, et al. **Am J Hosp Pharm** 1989 Sep; 46(9):1784–6

Building cooperation with physicians: an interview with Charles Fortner [interview by Joyce Leinberger Mitchell] Fortner C. **Am Pharm** 1990 Feb;NS30(2):24–6

DUE should be multidisciplinary [letter; comment] Schwinghammer TL, et al. **Am Pharm** 1990 Feb;NS30(2):3 Comment on: Am Pharm 1989 Nov;NS29(11):6.

Drug usage by anaesthetists [letter] Mirakhur RK. **Anaesthesia** 1990 Jun;45(6):500–1

Antibiotic use in the nursing home. Physician practice patterns. Katz PR, et al. **Arch Intern Med** 1990 Jul; 150(7):1465–8

Effects of patient age and physician training on choice and dose of benzodiazepine hypnotic drugs [see comments] Shorr RI, et al. **Arch Intern Med** 1990 Feb;150(2):293–5 Comment in: Arch Intern Med 1990 Feb;150(2):251–2.

The right of veterinarians to prescribe [news] **Aust Vet J** 1989 Nov;66(11):suppl 383–4

Drug utilization in breast-feeding women. A survey in Oslo. Matheson I, et al. **Eur J Clin Pharmacol** 1990;38(5):453–9

Drug utilization by the 30–64 year-old people in two cities in the Federal Republic of Germany in 1984. Tennis P. **Eur J Clin Pharmacol** 1990;38(5):447–52

Improving medication prescribing and utilization in the nursing home. Gurwitz JH, et al. **J Am Geriatr Soc** 1990 May;38(5):542–52 (92 ref.)

Inappropriate long-term medication in patients admitted to a coronary care unit. O'Sullivan JJ, et al. **J R Coll Physicians Lond** 1989 Oct;23(4):232–5

Principles of educational outreach ('academic detailing') to improve clinical decision making. Soumerai SB, et al. **JAMA** 1990 Jan 26;263(4):549–56

Drug supply in the aftermath of the 1988 Armenian earthquake. Autier P, et al. **Lancet** 1990 Jun 9; 335(8702):1388–90

Polypharmacy in the elderly [letter] Mant A, et al. **Med J Aust** 1990 Jun 4;152(11):613

Abstracts of papers. Rational use of drugs. 18th European Symposium on Clinical Pharmacy. Nijmegen (The Netherlands), 25–28 October 1989. **Pharm Weekbl [Sci]** 1989 Oct 20;11(5 Suppl I):11–34

Drug-utilization studies in The Netherlands. Haaijer-Ruskamp FM. **Pharm Weekbl [Sci]** 1990 Jun 22; 12(3):91–6 (32 ref.)

Studies on drug utilization: bilateral case study in Poland and Sweden. Szuba TJ, et al. **Soc Sci Med** 1989; 29(12):1363–6

[Drugs and health awareness in the population] Hartlová S, et al. **Cesk Zdrav** 1990 Mar;38(3):120–6 (Eng. Abstr.) (Cze)

[Problems in drug prescriptions. II. The structure of prescriptions from an economic viewpoint] Kolář J, et al. **Cesk Zdrav** 1989 Aug;37(8–9):378–83 (Eng. Abstr.) (Cze)

[Polyvalency of drugs and its importance in utilization analysis] Majtás J, et al. **Cesk Zdrav** 1989 Aug; 37(8–9):372–7 (Eng. Abstr.) (Cze)

[Patient information might reduce the use of benzodiazepines in general practice] Andreasen CM, et al. **Ugeskr Laeger** 1989 Nov 6;151(45):2968–70 (Eng. Abstr.) (Dan)

[Self-reported health status and drug use among the elderly] Holstein BE, et al. **Ugeskr Laeger** 1990 Feb 5;152(6):386–91 (Eng. Abstr.) (Dan)

[Consumption of, overdose and fatal poisoning with analgesics in Denmark 1979–1986] Ott P, et al. **Ugeskr Laeger** 1990 Jan 22;152(4):250–2 (Eng. Abstr.) (Dan)

[The effect of admission to a geriatric department of a general hospital on drug consumption of the elderly] Haagsma CJ, et al. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2341–4 (Eng. Abstr.) (Dut)

[The effect of admission to the geriatric department of a

general hospital on drug utilization of the elderly (letter)] Olde Rikkert MG. **Ned Tijdschr Geneeskd** 1990 Feb 3; 134(5):247–8 (Dut)

[Inventory and comparison of guidelines for antibiotic utilization in Dutch hospitals] van Everdingen JJ, et al. **Ned Tijdschr Geneeskd** 1990 Aug 18;134(33):1604–7 (Eng. Abstr.) (Dut)

[Polypharmacy in patients of a geriatric department of a general hospital] Olde Rikkert MG, et al. **Tijdschr Gerontol Geriatr** 1990 Apr;21(2):51–9 (Eng. Abstr.) (Dut)

[A survey: the forgotten dentist (interview by Johan Boone)] Lissens J. **Rev Belge Med Dent** 1990;45(1):55–62 (Fre)

[Drug consumption in a retired population] Colomes M, et al. **Therapie** 1990 Jul–Aug;45(4):321–4 (Eng. Abstr.) (Fre)

[Utilization of flecainide (Tambocor) (letter)] Orning OM. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2919 (Nor)

[Synonymous preparations—good for the Norwegian health services (letter)] Paulsen S, et al. **Tidsskr Nor Laegeforen** 1990 Jun 10;110(15):1987–8 (Nor)

[Medication among pensioners in homes for the aged and nursing homes] Rørvik FB, et al. **Tidsskr Nor Laegeforen** 1990 Apr 30;110(11):1335–8 (Eng. Abstr.) (Nor)

[Drug consumption among patients with arthrosis] Slinning H. **Tidsskr Nor Laegeforen** 1990 Jan 20;110(2):223–4 (Eng. Abstr.) (Nor)

[Use of thrombolytic agents in Brazil (1982–1988)] Nicolau JC. **Arq Bras Cardiol** 1989 Aug;53(2):81–3 (Por)

[Drug utilization and possibilities for regulation] Foltán V, et al. **Cesk Farm** 1990 Apr;39(2):90–2 (Slo)

[The effect of age factors on drug utilization in an urban population] Springer V, et al. **Cesk Farm** 1990 Apr; 39(2):86–9 (Eng. Abstr.) (Slo)

[Trends in drug utilization in elderly persons] Kotoučková M, et al. **Cesk Zdrav** 1990 Jun;38(5):224–31 (Eng. Abstr.) (Slo)

[Parallels in drug utilization—II] Majtás J. **Cesk Zdrav** 1990 Jun;38(5):209–20 (Eng. Abstr.) (Slo)

[The rational use of medications] García Alonso F. **Med Clin (Barc)** 1990 Apr 28;94(16):628–32 (21 ref.) (Spa)

[The number of patients who use the new antilipemic agents has doubled since their introduction on the market] **Lakartidningen** 1989 Oct 18;86(42):3583–5 (Swe)

[From statistics to handling: prescription of drugs in primary care] Tomson G, et al. **Lakartidningen** 1990 Apr 25; 87(17):1483–4 (Swe)

ECONOMICS

Effects of a rapid antigen test for group A streptococcal pharyngitis on physician prescribing and antibiotic costs. Meier FA, et al. **Arch Intern Med** 1990 Aug; 150(8):1696–700

Overuse of H2-blockers in a nursing home [letter] Oldendorf M. **J Am Geriatr Soc** 1989 Oct;37(10):1004

Patterns of antibiotic use and expenditures during 7 years at a university hospital. Fletcher CV, et al. **Pharmacotherapy** 1990;10(3):199–204

A comparison of prescribing patterns and consequent costs at Alexandra Health Centre and in the private fee-for-service medical aid sector. Price MR. **S Afr Med J** 1990 Aug 4;78(3):158–60

[The jar in Sarepta: on drugs and security] Bjørndal A. **Tidsskr Nor Laegeforen** 1989 Sep 30;109(27):2778–81 (Eng. Abstr.) (Nor)

[The cheapest synonymous preparations—a suggestion with unwanted consequences. Original preparations and other copies (letter)] Eriksson J. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2710–1 (Nor)

[Clinical pharmacology and the selection of drugs] Stanulović M. **Med Pregl** 1989;42(11–12):391–4 (Eng. Abstr.) (Scr)

LEGISLATION & JURISPRUDENCE

An FDA perspective on drug use in horses. Beaulieu AJ, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1388–9

STATISTICS & NUMERICAL DATA

Oligoanalgesia in the emergency department. Wilson JE, et al. **Am J Emerg Med** 1989 Nov;7(6):620–3

Impact of a drug-use review program intervention on prescribing after publication of a randomized clinical trial [see comments] Bjornson DC, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1541–6 Comment in: Am J Hosp Pharm 1990 Jul;47(7):1533.

Drug use in a trauma intensive-care unit. Boucher BA, et al. **Am J Hosp Pharm** 1990 Apr;47(4):805–10

Use of alteplase for myocardial infarction in two community hospitals. Krichbaum DW, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1535–40

Procedural compliance and clinical outcome associated with therapeutic interchange of extended-spectrum penicillins. Martin LA, et al. **Am J Hosp Pharm** 1990 Jul;47(7):1551–4

Physicians' attitudes toward drug-use evaluation interventions. Pierson JF, et al. **Am J Hosp Pharm** 1990 Feb;47(2):388–90

Improving antiulcer agent prescribing in a health maintenance organization. Raisch DW, et al. **Am J Hosp Pharm** 1990 Aug;47(8):1766–73

Antibiotic prescribing: the need for a policy in general practice. Wyatt TD, et al. **BMJ** 1990 Feb 17; 300(6722):441–4

The use of sedative-hypnotic drugs in a university teaching hospital [see comments] O'Reilly R, et al. **Can Med Assoc J** 1990 Mar 15;142(6):585–9 Comment in: Can Med Assoc J 1990 May 15;142(10):1045.

Drug prescribing in residential homes for elderly people in the United Kingdom. Weedle PB, et al. **DICP** 1990 May; 24(5):533–6

Antibiotic use at a university hospital. Antibiotic Working Group of Srinagarind Hospital. Udomthavornsuk B, et al. **J Med Assoc Thai** 1990 Mar;73(3):168–74

What influences doctors' prescribing? Sore throats revisited [see comments] Pitts J, et al. **J R Coll Gen Pract** 1989 Feb; 39(319):65–6 Comment in: J R Coll Gen Pract 1989 Jun;39(323):259.

Prescription of benzodiazepines in a London teaching hospital. Shan K, et al. **J R Soc Med** 1990 May;83(5):306–7

Prescribing Issues Grant report to the Board of Medical Examiners. 1. **Minn Med** 1990 Jul;73(7):36–43

Medication use in nine year olds: types of medicines used and recall of advice given. Sinclair BL, et al. **N Z Med J** 1990 Jun 13;103(891):263–5

The throwaway line [letter] Thomson AN. **N Z Med J** 1990 Jul 25;103(894):357

[Factors associated with drug prescription] Catalán Ramos A, et al. **Gac Sanit** 1989 Sep–Oct;3(14):497–501 (Eng. Abstr.) (Spa)

TRENDS

Changes in the prescription patterns of psychotropic drugs for cancer patients during a 10-year period. Stiefel FC, et al. **Cancer** 1990 Feb 15;65(4):1048–53

Drug use in pregnancy: an overview of epidemiological (drug utilization) studies. Bonati M, et al. **Eur J Clin Pharmacol** 1990;38(4):325–8

Prescribed use of cholesterol-lowering drugs in the United States, 1978 through 1988. Wysowski DK, et al. **JAMA** 1990 Apr 25;263(16):2185–8

Improving drug prescribing in primary care: a critical analysis of the experimental literature. Soumerai SB, et al. **Milbank Q** 1989;67(2):268–317 (72 ref.)

Drug use in pregnancy: a preliminary report of the International co-operative Drug Utilization Study. Collaborative Group on Drug Use in Pregnancy. **Pharm Weekbl [Sci]** 1990 Apr 27;12(2):75–8

Pharmaco-epidemiological perspectives. Bergman U. **Pharm Weekbl [Sci]** 1989 Oct 20;11(5):151–4 (46 ref.)

Collecting data about drug use by elderly people. Cartwright A. **Pharm Weekbl [Sci]** 1990 Apr 27;12(2):60–5

Heavy users of prescription drugs—mortality and stability in use patterns. Isacson D, et al. **Scand J Prim Health Care** 1989 Oct;7(3):149–55

[The development of drug utilization with special reference to demographic factors] Mansky T, et al. **Off Gesundheitswes** 1989 Oct;51(10):592–8 (Eng. Abstr.) (Ger)

[Unacceptable waste of insulin—time for new guidelines?] Berne C, et al. **Lakartidningen** 1990 Jan 24;87(4):188 (Swe)

[An alarming increase in the prescription of antibiotics] Norrby R. **Lakartidningen** 1989 Dec 13;86(50):4407–8 (Swe)

DRUG WITHDRAWAL SYMPTOMS see **SUBSTANCE WITHDRAWAL SYNDROME**

DRUGS

see related
PLANTS, MEDICINAL

Significant FDA approvals in 1989. Nightingale SL. **Am Fam Physician** 1990 Jun;41(6):1851–2

Providing drug information to the blind [letter] McIntyre WJ, et al. **Am J Hosp Pharm** 1990 May;47(5):1013–4

Central American countries need drug products and medical supplies [letter] Serrano JL. **Am J Hosp Pharm** 1989 Nov; 46(11):2250

Major events during the generic drug investigations. **Am Pharm** 1990 Jul;NS30(7):38–9

New drugs of 1989. Hussar DA. **Am Pharm** 1990 Mar; NS30(3):27–49

Mail order and community pharmacy prices are similar, study finds. Martin S. **Am Pharm** 1990 Jul;NS30(7):23–5

Cost awareness among junior anaesthetists [letter] Jayasuriya JP. **Anaesthesia** 1990 Feb;45(2):174

How do patients identify their drugs? Yelland MJ, et al. **Aust Fam Physician** 1989 Nov;18(11):1441–5

Donating drugs to the Third World [letter] Griffiths FE. **BMJ** 1989 Aug 5;299(6695):390–1

Novel medicines marketed in the UK (1960–87). Lis Y, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):333–43

Anaesthesia and the Amazon [letter] Oyston J. **Can J Anaesth** 1990 May;37(4 Pt 1):490–1

Analysis of dynamics trajectories of DNA and DNA-drug complexes. Galat A. **Comput Appl Biosci** 1989 Oct; 5(4):271–8

SRx: a regional approach to geriatric medication education. Eng K, et al. **Gerontologist** 1990 Jun;30(3):408–10

Knowledge of prescribers regarding cost of pediatric medications. Christo GG, et al. **Indian Pediatr** 1990 Jan; 27(1):83–5

Use of generic names—one name only. Wehrli A. **Int J Clin Pharmacol Ther Toxicol** 1990 Jul;28(7):315–6

Popularize trade names through proper advertisements only and not through scientific articles [letter; comment] Arya TV. **J Assoc Physicians India** 1989 Nov;37(11):733 Comment on: J Assoc Physicians India 1989 Jul;37(7):437–9.

Reply from author [letter] Islam N. **J Assoc Physicians India** 1989 Apr;37(4):296

The use of prescription drugs among elderly Finnish men. Enlund H, et al. **J Clin Pharm Ther** 1990 Apr;15(2):115–22

Use of drug lists [letter] Levine C. **J Fam Pract** 1990 Sep; 31(3):240, 328

A set of computer programs to calculate agonist dissociation constants. Jeffery DA, et al. **J Pharmacol Methods** 1989 Dec;22(4):277–87

Drug supply in the aftermath of the 1988 Armenian earthquake. Autier P, et al. **Lancet** 1990 Jun 9; 335(8702):1388–90

A comparison of drug products available in Germany and the United States. Grabenstein JD. **Milit Med** 1990 Mar; 155(3):133–7

Tufts study shows cost of developing a new drug is $231 million and takes 12 years [news] **Oncology (Williston Park)** 1990 Jul;4(7):20

The indigenization of pharmaceuticals: therapeutic transitions in rural Hausaland. Etkin NL, et al. **Soc Sci Med** 1990; 30(8):919–28 (75 ref.)

Physicians' attitudes toward generic drug substitution by pharmacists. Brust M, et al. **Tex Med** 1990 Mar;86(3):45–9

Reading the SIGNS in drug names [letter] **Trends Pharmacol Sci** 1989 Oct;10(10):394–5

More education better than new prefixes [letter; comment] Neumeyer JL. **Trends Pharmacol Sci** 1989 Dec;10(12):487–8 Comment on: Trends Pharmacol Sci 1989 Sep;10(9):349–54.

Generic names need stereochemical information. Signs of support [letter; comment] Ruffolo RR Jr. **Trends Pharmacol Sci** 1990 Feb;11(2):61 Comment on: Trends Pharmacol Sci 1989 Sep;10(9):349–54.

SIGNS: new rules should not add to confusion. Identification system for stereoisomeric drugs [letter; comment] van der Goot H, et al. **Trends Pharmacol Sci** 1989 Dec;10(12):486–7 Comment on: Trends Pharmacol Sci 1989 Sep;10(9):349–54.

Redefining the role of the Veterinary Medicines Directorate. Rutter M. **Vet Rec** 1990 Apr 21;126(16):373–4

[Preparation of derivatives of 3-(3,4-dimethoxyphenyl)propanic acid and a study of its biological activity] Nováček L, et al. **Cesk Farm** 1990 May; 39(3):109–12 (Eng. Abstr.) (Cze)

[Medico-pharmaceutical provisions of the International Red Cross Committee in emergency situations] Musy A, et al. **Rev Med Suisse Romande** 1990 May;110(5):425–8 (Fre)

[The emergency case] Rieben F, et al. **Rev Med Suisse Romande** 1989 Dec;109(12):1053–4 (Fre)

[Drug interference with biochemical analysis] Ben Ammar S, et al. **Tunis Med** 1989 Dec;67(12):797–803 (Fre)

[Development of the database on nonproprietary names of drugs] Hashiba S, et al. **Eisei Shikenjo Hokoku** 1989; (107):141–5 (Eng. Abstr.) (Jpn)

[Drug effects on laboratory test results] Hayashi Y. **Nippon Rinsho** 1989 Dec;48 Suppl:36–44 (Jpn)

[Outfitting pharmacies for catastrophes and natural disasters] Stupar D, et al. **Vojnosanit Pregl** 1989 Jul–Aug; 46(4):268–72 (Scr)

[Drug nomenclature: time for uniformity (letter)] de Abajo FJ. **Med Clin (Barc)** 1990 Apr 21;94(15):598 (Spa)

ADMINISTRATION & DOSAGE

Improper use of prescription drugs [letter] Becker MH. **Am Fam Physician** 1990 Jul;42(1):42, 44

Comparison study of intraosseous, central intravenous, and peripheral intravenous infusions of emergency drugs. Orlowski JP, et al. **Am J Dis Child** 1990 Jan;144(1):112–7

Revised pediatric code card [letter] Rockney RM, et al. **Am J Dis Child** 1990 Mar;144(3):272–4

Osmolality of small-volume i.v. admixtures for pediatric patients. Santeiro ML, et al. **Am J Hosp Pharm** 1990 Jun; 47(6):1359–64

Equipment deadspace and drug administration. Macfie AG. **Anaesthesia** 1990 Feb;45(2):145–7

Extrapolation of pharmacological and toxicological data based on metabolic weight. Van Miert AS. **Arch Exp Veterinarmed** 1989;43(4):481–8 (27 ref.)

Audit of drug usage in a regional neonatal intensive care unit. Daniell AJ, et al. **Aust Paediatr J** 1989 Aug; 25(4):207–10

Prediction of infusion rates: computer study. Harrison MJ. **Br J Anaesth** 1990 Mar;64(3):283–6

Ocular drug delivery. Pharmacokinetic considerations. Schoenwald RD. **Clin Pharmacokinet** 1990 Apr; 18(4):255–69 (114 ref.)

Disease-induced variations in plasma protein levels. Implications for drug dosage regimens (Part II). Zini R, et al. **Clin Pharmacokinet** 1990 Sep;19(3):218–29 (242 ref.)

Drugs commonly administered by intravenous infusion in intensive care units: a practical guide. Trujillo MH, et al. **Crit Care Med** 1990 Feb;18(2):232–8 (127 ref.)

Drug consumption in elderly diabetics. Gram J, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):293–8

Pharmacology and toxicology of novel drug delivery systems. Regulatory issues. Weissinger J. **Drug Saf** 1990; 5 Suppl 1:107–13 (24 ref.)

Inaccuracy in the doses of injectable medications dispensed from rubber-stoppered vials. Berger SA, et al. **Eur J Clin Pharmacol** 1989;37(1):91–4

Prescription monitoring of drug dosages in the county of Jämtland and Sweden as a whole in 1976, 1982 and 1985. Wessling A, et al. **Eur J Clin Pharmacol** 1990;38(4):329–34

A probabilistic approach to the single-point, single-dose problem. Briggs WL, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):80–4

A set of simple aids to drug dosage adjustment in renal insufficiency. Janku I, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jan;28(1):27–32

Liposome preparations: a step forward in topical drug therapy for skin disease? A review. Schäfer-Korting M, et al. **J Am Acad Dermatol** 1989 Dec;21(6):1271–5 (36 ref.)

Drug delivery systems: 3A. Role of polymers in drug delivery. Ranade VV. **J Clin Pharmacol** 1990 Jan; 30(1):10–23 (86 ref.)

Drug delivery systems—2. Site-specific drug delivery utilizing monoclonal antibodies. Ranade VV. **J Clin Pharmacol** 1989 Oct;29(10):873–84 (80 ref.)

Discerning the epidemiology of drug use among a sample of college students. Clifford PR, et al. **J Drug Educ** 1989; 19(3):209–23

Effects of labeling techniques on memory and comprehension of prescription information in young and old adults. Morrell RW, et al. **J Gerontol** 1990 Jul;45(4):P166–72

Albumin microspheres. I: Physico-chemical characteristics. Gupta PK, et al. **J Microencapsul** 1989 Oct–Dec; 6(4):427–62 (158 ref.)

Albumin microspheres. II: Applications in drug delivery. Gupta PK, et al. **J Microencapsul** 1989 Oct–Dec; 6(4):463–72 (58 ref.)

A comparison of algorithmic and teacher-directed instruction in dosage calculation presented via whole and part methods for associate degree nursing students. Connor SE, et al. **J Nurs Educ** 1990 Jan;29(1):31–6

The use of oil-in-water emulsions as a vehicle for parenteral drug administration. Prankerd RJ, et al. **J Parenter Sci Technol** 1990 May–Jun;44(3):139–49 (93 ref.)

Statistical analysis of drug-drug and site-site interactions with isobolograms. Tallarida RJ, et al. **Life Sci** 1989; 45(11):947–61 (23 ref.)

Rate-control drug delivery systems: controlled release vs. sustained release. Chien YW. **Med Prog Technol** 1989; 15(1–2):21–46 (56 ref.)

Microvascular access to the uveal tract in the rabbit eye for ocular pharmacologic studies. Chiou FY, et al. **Ophthalmic Res** 1989;21(6):406–13

Constant-rate intravenous infusion methods for estimating steady-state volumes of distribution and mean residence times in the body for drugs undergoing reversible metabolism. Cheng H, et al. **Pharm Res** 1990 Jun; 7(6):628–32

Intestinal fat absorption and its relevance in lipid drug delivery systems. Eldem T, et al. **Pharmazie** 1989 Jul; 44(7):444–7 (51 ref.)

Therapeutic drug monitoring. Practical considerations for primary care physicians. Kisor DF, et al. **Postgrad Med** 1990 Mar;87(4):239–41, 244–6

The right prescription for GPs? [editorial] Ball D. **Practitioner** 1989 May 8;233(1468):629

Laboratory tests to monitor drug administration. **Scand J Clin Lab Invest Suppl** 1989;195:19–21

Tone of relief. Ultrasound speeds the release of drugs from medical implants [news] Rennie J. **Sci Am** 1990 Apr; 262(4):30

[The use of medicines by children attending the outpatient clinic at Kafalong Hospital] Schoeman EM, et al. **S Afr Med J** 1989 Oct 21;76(8):426–8 (Eng. Abstr.) (Afr)

[A computer program for the drug dosage of patients with chronic kidney failure] Krivoshiev S, et al. **Khirurgiia (Sofiia)** 1989;42(5):108–10 (Eng. Abstr.) (Bul)

[Organ-oriented administration of drugs; sense and nonsense] Daemen MJ, et al. **Ned Tijdschr Geneeskd** 1989 Oct 21; 133(42):2063–7 (35 ref.) (Dut)

[Drugs administered daily] Jolivet B, et al. **Ann Med Psychol (Paris)** 1989 Jul–Aug;147(4):490–3 (Fre)

[The transnasal route of drug administration. Aspects of nasal anatomy and physiology] Wüthrich P, et al. **Pharm Acta Helv** 1989;64(12):322–31 (28 ref.) (Eng. Abstr.) (Fre)

[Liposomes] Joly V, et al. **Presse Med** 1989 Dec 2; 18(40):1957–9 (Fre)

[Constant or pulsed drug administration? Criteria for decision-making and developing trends] Lippold BC. **Pharm Unserer Zeit** 1990 Jan;19(1):13–21 (9 ref.) (Ger)

[Using drugs: experiences with a slide show program and patient questionnaires] Roth K, et al. **Schweiz Rundsch Med Prax** 1989 Oct 24;78(43):1187–91 (Eng. Abstr.) (Ger)

[Drugs and food] Paoletti V, et al. **Clin Ter** 1989 Oct 15; 131(1):23–34 (Eng. Abstr.) (Ita)

[Physical basis for the application of ferromagnetics introduced into body] Rymarchuk VI, et al. **Biofizika** 1990 Jan–Feb;35(1):145–54 (107 ref.) (Eng. Abstr.) (Rus)

[A device for endolymphatic administration of drugs] Ageev VA, et al. **Klin Khir** 1990;(1):73–4 (Rus)

[The administration of preparations into the vorticose vein in the combined therapy of severe forms of uveitis] Pen'kov MA, et al. **Oftalmol Zh** 1989;(5):278–81 (Eng. Abstr.) (Rus)

[Characteristics of geriatric pharmacotherapy] Zamotaev IP. **Sov Med** 1990;(2):19–23 (Rus)

[Current problems of drug electrophoresis] Maliavin AG. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec; (6):55–6 (Rus)

[Use memory aids to remember to take important medications] Ogren JE. **Lakartidningen** 1989 Sep 6; 86(36):2923 (Swe)

ADVERSE EFFECTS

Multicenter study of hospital adverse drug reactions. Conforti A, et al. **Acta Physiol Hung** 1990;75 Suppl:63–4

Active reporting scheme: an example to evaluate specific adverse drug reactions. Pini LA, et al. **Acta Physiol Hung** 1990;75 Suppl:237–8

Adverse drug reactions: reporting and evaluating cutaneous reactions. Stern RS, et al. **Adv Dermatol** 1987;2:3–17 (39 ref.)

Voluntary systems of adverse reaction reporting—Part III. Griffin JP, et al. **Adverse Drug React Acute Poisoning Rev** 1989 Winter; 8(4):203–15

Program for improving adverse drug reaction reporting. Chatas CA, et al. **Am J Hosp Pharm** 1990 Jan;47(1):155–7

Pharmacy-coordinated program that encourages physician reporting of adverse drug reactions. Gilroy GW, et al. **Am J Hosp Pharm** 1990 Jun;47(6):1327–33

Contributing to drug safety [editorial] Johnson JM. **Am J Hosp Pharm** 1990 Jun;47(6):1280

Use of a database computer program to identify trends in reporting of adverse drug reactions. Johnston PE, et al. **Am J Hosp Pharm** 1990 Jun;47(6):1321–7

Controversies in adverse drug reaction reporting [letter; comment] Juergens JP. **Am J Hosp Pharm** 1990 Jan; 47(1):76–7 Comment on: Am J Hosp Pharm 1989 Sep;46(9):1809–12.

Multidisciplinary program for detecting and evaluating adverse drug reactions [see comments] Keith MR, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1809–12 Comment in: Am J Hosp Pharm 1990 Jan;47(1):76–7.

Use of standardized screening procedures to identify adverse drug reactions. Koch KE. **Am J Hosp Pharm** 1990 Jun; 47(6):1314–20

Development of a videotape on adverse drug reactions. Morgan SA, et al. **Am J Hosp Pharm** 1990 Jun;47(6):1340–2

Update on safe handling of hazardous drugs: the advice of experts. Power LA, et al. **Am J Hosp Pharm** 1990 May; 47(5):1050–60 (0 ref.)

Multidisciplinary adverse drug reaction surveillance program. Prosser TR, et al. **Am J Hosp Pharm** 1990 Jun; 47(6):1334–9

Our mission and our message: "safe use of drugs". Smith WE. **Am J Hosp Pharm** 1990 Feb;47(2):323–5

Coding and searching for adverse drug reactions [letter] Stolar MH. **Am J Hosp Pharm** 1990 Feb;47(2):303–4

A pharmaceutical manufacturer's perspective on reporting adverse drug experiences. Sullivan JW. **Am J Hosp Pharm** 1990 Jun;47(6):1342–5

Therapeutic risk-assessment model for identifying patients with adverse drug reactions. Tschepik W, et al. **Am J Hosp Pharm** 1990 Feb;47(2):330–4

System for voluntary reporting of adverse drug reactions in a university hospital. Vorce-West TE, et al. **Am J Hosp Pharm** 1989 Nov;46(11):2300–3

Mechanisms of occupational airways diseases induced by exposure to organic and inorganic chemicals. O'Neil CE. **Am J Med Sci** 1990 Apr;299(4):265–75 (97 ref.)

Misclassification in epidemiologic studies of adverse drug reactions using large managerial data bases. Graham DJ, et al. **Am J Prev Med** 1988;4(2 Suppl):15–24

Pharmacoepidemiology in hospitals using automated data systems. Platt R, et al. **Am J Prev Med** 1988;4(2 Suppl):39–47

Renal failure caused by chemicals, foods, plants, animal venoms, and misuse of drugs. An overview. Abuelo JG. **Arch Intern Med** 1990 Mar;150(3):505–10 (162 ref.)

Post marketing surveillance of new drugs. Patient safety in the hands of GPs. Marley JE. **Aust Fam Physician** 1989 Sep;18(9):1133–5

Stimulating reporting of adverse drug reactions by using a fee. Feely J, et al. **BMJ** 1990 Jan 6;300(6716):22–3

Drugs in old age: new perspectives. **Br Med Bull** 1990 Jan; 46(1):1–291

Adverse drug reactions. Denham MJ. **Br Med Bull** 1990 Jan; 46(1):53–62 (21 ref.)

Pharmacodynamics: changes in homeostatic mechanisms, receptor and target organ sensitivity in the elderly. Swift CG. **Br Med Bull** 1990 Jan;46(1):36–52 (74 ref.)

Drugs in old age. New perspectives. Introduction. Williamson J. **Br Med Bull** 1990 Jan;46(1):1–8

Screening prescription drugs for possible carcinogenicity: eleven to fifteen years of follow-up. Selby JV, et al. **Cancer Res** 1989 Oct 15;49(20):5736–47

Drug-induced pulmonary disease. **Clin Chest Med** 1990 Mar; 11(1):1–189

Unexpected drug reactions. **Clin Dermatol** 1986 Jan–Mar; 4(1):1–193

Manifestations of drug reactions. Urticaria and cutaneous necrotizing venulitis. Gammon WR. **Clin Dermatol** 1986 Jan–Mar;4(1):50–7

A brief history of drug reactions. Laughlin S, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):1–14

Cutaneous drug reactions in small animals. Nesbitt GH. **Clin Dermatol** 1986 Jan–Mar;4(1):190–3

Drug-induced pemphigus. Pisani M, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):118–32 (105 ref.)

Identifying adverse reactions to drugs. Reporting systems. Stern RS. **Clin Dermatol** 1986 Jan–Mar;4(1):15–22

Photosensitivity: II. Testing. Stern WK. **Clin Dermatol** 1986 Jan–Mar;4(1):88–97 (45 ref.)

Drug reactions involving the mouth. Zelickson BD, et al. **Clin Dermatol** 1986 Jan–Mar;4(1):98–109 (55 ref.)

Adverse drug effects. Lamy PP. **Clin Geriatr Med** 1990 May; 6(2):293–307 (97 ref.)

Drug-related lupus. Mongey AB, et al. **Curr Opin Rheumatol** 1989 Oct;1(3):353–9 (19 ref.)

Influence of dissolution rate and pH of oral medications on drug-induced esophageal injury. Bailey RT Jr, et al. **DICP** 1990 Jun;24(6):571–4

International Symposium on Drug Safety. Ottawa, 28–29 September, 1989. Proceedings. **Drug Saf** 1990;5 Suppl 1:1–168

Safety considerations in product development. Hayes AH Jr. **Drug Saf** 1990;5 Suppl 1:24–6

Safety by design. Jack D. **Drug Saf** 1990;5 Suppl 1:4–23 (32 ref.)

The evaluation of the abuse liability of drugs. Johanson CE. **Drug Saf** 1990;5 Suppl 1:46–57 (39 ref.)

Realities of drug use in society. Lowy FH. **Drug Saf** 1990; 5 Suppl 1:155–9 (16 ref.)

Drug safety in the European community. Sauer F. **Drug Saf** 1990;5 Suppl 1:141–8 (0 ref.)

Risk assessment of drugs. Somers E. **Drug Saf** 1990;5 Suppl 1:149–54 (15 ref.)

Effects of drugs on glucose tolerance in non-insulin-dependent diabetics (Part I). O'Byrne S, et al. **Drugs** 1990 Jul;40(1):6–18 (0 ref.)

Fitting a model to categorical response data with application to species extrapolation of toxicity. Hertzberg RC. **Health Phys** 1989;57 Suppl 1:405–9

Prescription audit of under six children living in periurban areas. Prakash O, et al. **Indian Pediatr** 1989 Sep;26(9):900–4

Current French system of post-marketing drug surveillance. Albengres E, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jul;28(7):312–4

International reporting on adverse drug reactions: the CIOMS project. CIOMS ADR Working Group. Faich GA, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Apr; 28(4):133–8

Prevalence of adverse drug reactions [letter; comment] Sinoff GD, et al. **J Am Geriatr Soc** 1990 Jun;38(6):722 Comment on: J Am Geriatr Soc 1989 Apr;37(4):323–6.

Adverse drug reaction reports benefit veterinary medicine [news] Gloyd JS. **J Am Vet Med Assoc** 1989 Dec 1; 195(11):1481

Prescription-event monitoring: methodology and recent progress. Rawson NS, et al. **J Clin Epidemiol** 1990; 43(5):509–22

Adverse drug reactions and the elderly. Haffner CA, et al. **J Clin Pharm Ther** 1990 Apr;15(2):77–9

Evaluation of skin test reactions in patients with non-immediate type drug eruptions. Osawa J, et al. **J Dermatol** 1990 Apr;17(4):235–9

Drug related hospital admissions: the role of definitions and intensity of data collection, and the possibility of prevention. Hallas J, et al. **J Intern Med** 1990 Aug; 228(2):83–90

Drug defect reporting [editorial] McBride D. **J R Coll Gen Pract** 1989 Mar;39(320):90

Perception of prescription drug risks: a survey of patients with ankylosing spondylitis. O'Brien BJ, et al. **J Rheumatol** 1990 Apr;17(4):503–7

Reporting drug side effects: signals and noise [editorial; comment] Avorn J. **JAMA** 1990 Apr 4;263(13):1823 Comment on: JAMA 1990 Apr 4;263(13):1785–8.

Physician reporting of adverse drug reactions. Results of the Rhode Island Adverse Drug Reaction Reporting Project [see comments] Scott HD, et al. **JAMA** 1990 Apr 4; 263(13):1785–8 Comment in: JAMA 1990 Apr 4;263(13):1823.

Environmentally related diseases of the urinary tract. Goyer RA. **Med Clin North Am** 1990 Mar;74(2):377–89 (45 ref.)

Drugs and breast milk [letter; comment] **Pediatrics** 1990 Jul; 86(1):147–8 Comment on: Pediatrics 1989 Nov;84(5):924–36.

American Academy of Pediatrics Committee on Drugs: Transfer of drugs and other chemicals into human milk [published erratum appears in Pediatrics 1990 May;85(5):847] [see comments] **Pediatrics** 1989 Nov; 84(5):924–36 (262 ref.) Comment in: Pediatrics 1990 Jul;86(1):147–8. Comment in: Pediatrics 1990 Jul;86(1):149–50.

Transfer of drugs and other chemicals into human milk [letter; comment] Wilson JT. **Pediatrics** 1990 Jul; 86(1):149–50 Comment on: Pediatrics 1989 Nov;84(5):924–36.

Formulation and dosage form design in drug-induced topical irritation of the gastrointestinal tract. Fara JW, et al. **Pharm Res** 1990 Jun;7(6):616–20

Medication and skilled work. Nicholson AN. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):513–8

Using a computerized discharge summary data base check box for adverse drug reaction monitoring. Schiff GD. **QRB** 1990 Apr;16(4):149–55

Drug-induced lesions of the musculoskeletal system. Lawson JP. **Radiol Clin North Am** 1990 Mar;28(2):233–46 (57 ref.)

The importance of pharmacokinetic and receptor studies in drug safety evaluation. Eason CT, et al. **Regul Toxicol Pharmacol** 1990 Jun;11(3):288–307 (96 ref.)

Adverse reactions to drugs. **Semin Dermatol** 1989 Sep; 8(3):135–226

The file of side effects to the skin: a guide to drug eruptions. Bruinsma W. **Semin Dermatol** 1989 Sep;8(3):141–3 (18 ref.)

Oral provocation: limitations. Girard M. **Semin Dermatol** 1989 Sep;8(3):192–5 (8 ref.)

Oral provocation: uses. Kauppinen K, et al. **Semin Dermatol** 1989 Sep;8(3):187–91 (12 ref.)

International reporting of adverse drug reactions: the WHO program. Olsson S. **Semin Dermatol** 1989 Jun;8(2):72–4

INFODERM—a microcomputer database system with Finnish product files. Rantanen T. **Semin Dermatol** 1989 Jun;8(2):94–5

Epidemiologic assessment of adverse drug effects. Stern RS. **Semin Dermatol** 1989 Sep;8(3):136–40 (11 ref.)

Therapeutic drug monitoring reduces toxic drug reactions: a meta-analysis. Ried LD, et al. **Ther Drug Monit** 1990 Jan;12(1):72–8

High alcohol consumption, liver toxic drugs and brain damage—a population study. Mützell S, et al. **Ups J Med Sci** 1989;94(3):305–15

[Personal experience with monitoring drug prescriptions in pregnancy] Barnetová L, et al. **Cesk Gynekol** 1989 Sep; 54(8):561–74 (Eng. Abstr.) **(Cze)**

[Hepatotoxicity of drugs. Update of a data bank of hepatic involvement and responsible drugs] Biour M, et al. **Gastroenterol Clin Biol** 1990;14(3):263–77 **(Fre)**

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1989 May-Jun;44(3):248–54 **(Fre)**

[Reactions and interactions of drugs] D'Arcy PF. **J Pharm Belg** 1990 Mar-Apr;45(2):160–3 **(Fre)**

[Interstitial pneumopathies: criteria of drug side-effects. Results of consensus meetings] Fournier M, et al. **Presse Med** 1989 Sep 2-9;18(27):1333–6 (17 ref.) (Eng. Abstr.) **(Fre)**

[The registration of drug side effects (letter)] Fiedler H. **Dtsch Med Wochenschr** 1990 Aug 24;115(34):1294 **(Ger)**

[Drug-induced liver damage from the morphologic viewpoint] Roschlau G. **Gastroenterol J** 1990;50(1):6–11 (28 ref.) (Eng. Abstr.) **(Ger)**

[Drug-induced liver damage from the clinical viewpoint] Schentke KU, et al. **Gastroenterol J** 1990;50(1):12–5 (13 ref.) (Eng. Abstr.) **(Ger)**

[Goals and limits of spontaneous detection of unwanted drug side effects] Mathias B, et al. **Internist (Berl)** 1990 Jul; 31(7):448–55 (30 ref.) **(Ger)**

[Unwanted effects of therapeutic drugs on the structure and function of the lung from a clinico-pharmacologic viewpoint] Frölich JC. **Pneumologie** 1990 Feb;44 Suppl 1:167–72 (27 ref.) (Eng. Abstr.) **(Ger)**

[Clinical and functional disorders in side effects of drugs on the lung] Konietzko N. **Pneumologie** 1990 Feb;44 Suppl 1:173–7 (10 ref.) (Eng. Abstr.) **(Ger)**

[The family physician and drug side-effects. Observations from general practice—conclusions for general practice] Stahl H. **Schweiz Rundsch Med Prax** 1989 Aug 15; 78(33):874–9 (Eng. Abstr.) **(Ger)**

[Detection of drug side effects at the Heidelberg Medical Clinic] Jacubeit T, et al. **Verh Dtsch Ges Inn Med** 1989; 95:690–3 **(Ger)**

[30 years' spontaneous recording systems of German physicians—results and experiences] Kimbel KH. **Verh Dtsch Ges Inn Med** 1989;95:683–6 **(Ger)**

[Comprehensive detection of severe, potentially life-threatening drug side effects] Schönhöfer PS, et al. **Verh Dtsch Ges Inn Med** 1989;95:687–90 **(Ger)**

[Why and how prevent drug esophageal injuries—a frequent event] Delpre G, et al. **Harefuah** 1989 Jun 15;116(12):644–6 (39 ref.) **(Heb)**

[Drug-induced liver diseases (editorial)] Manenti F, et al. **G Clin Med** 1989 Dec;70(12):723–32 **(Ita)**

[Drugs and pregnancy] Bonati M, et al. **Medicina (Firenze)** 1989 Jul-Sep;9(3):265–70 (34 ref.) (Eng. Abstr.) **(Ita)**

[Kidney tubular transport disorders. Drug-induced tubulointerstitial damage] Shibasaki T. **Nippon Rinsho** 1989 Jul;47(7):1654–9 **(Jpn)**

[Status of side effects. 1. Background and current status] Lunde PK, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10; 109(31):3223–4 **(Nor)**

[Status of side effects. 2. Adverse effects from a historical point of view. Classic examples] Lunde PK, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3225–6 (Eng. Abstr.) **(Nor)**

[Status of side effects. 3. Intensified registration of adverse effects. What should be reported?] Myhr K, et al. **Tidsskr Nor Laegeforen** 1989 Nov 10;109(31):3226–8 **(Nor)**

[Contact allergy caused by drug handling] Rudzki E, et al. **Przegl Dermatol** 1990 Jan-Feb;77(1):1–5 **(Pol)**

[The diagnosis of drug-induced hepatopathies] Oancea R. **Rev Med Interna [Med Interna]** 1989 Jan-Feb;41(1):1–13 (20 ref.) (Eng. Abstr.) **(Rum)**

[Drug-induced hepatitis] Oancea R. **Rev Med Interna [Med Interna]** 1989 Sep-Oct;41(5):385–90 (9 ref.) (Eng. Abstr.) **(Rum)**

[Acute drug-induced hepatitis] Polunina TE. **Klin Med (Mosk)** 1989 Oct;67(10):87–90 **(Rus)**

[Drug-induced hepatitis] Dem'ianenko SM. **Vrach Delo** 1989 Dec;(12):64–6 (Eng. Abstr.) **(Rus)**

[New rules for reporting of adverse effects] **Lakartidningen** 1990 Jan 10;87(1–2):52–3 **(Swe)**

ANALYSIS

Refractometry in an operating room pharmacy [letter] Donnelly AJ. **Am J Hosp Pharm** 1990 Aug;47(8):1752–3

Sorption of various drugs in polyvinyl chloride, glass, and polyethylene-lined infusion containers. Martens HJ, et al. **Am J Hosp Pharm** 1990 Feb;47(2):369–73

Internal-surface reversed-phase silica support for direct injection determination of drugs in biological fluids by liquid chromatography. Haginaka J, et al. **Anal Chem** 1989 Nov 1;61(21):2445–8

Identification of medicinal additives in animal feedingstuffs by high-performance liquid chromatography. Cody MK, et al. **Analyst** 1990 Jan;115(1):1–8

Toxicologic studies on USAF aircraft accident casualties, 1973–1984. Ruehle CJ. **Aviat Space Environ Med** 1989 Oct; 60(10 Pt 2):B86–8

Analysis of drug in tissue homogenates by high performance liquid chromatography with direct injection and column switching. Imai H, et al. **Biomed Chromatogr** 1989 Sep; 3(5):192–5

The structural identification of drug metabolites using thermospray liquid chromatography/mass spectrometry. Beattie IG, et al. **Biomed Environ Mass Spectrom** 1989 Oct; 18(10):872–7

Survey of colourings and preservatives in drugs [see comments] Pollock I, et al. **BMJ** 1989 Sep 9; 299(6700):649–51 Comment in: BMJ 1989 Oct 28;299(6707):1099.

Epimerization and racemization of some chiral drugs in the presence of human serum albumin. Aso Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Jan;38(1):180–4

Glassy state of pharmaceuticals. IV. Studies on glassy pharmaceuticals by thermomechanical analysis. Fukuoka E, et al. **Chem Pharm Bull (Tokyo)** 1989 Oct;37(10):2782–5

Physical and chemical changes of medicinals in mixtures with adsorbents in the solid state. III. Determination of vapor pressure of solid drugs by steam distillation. Konno T. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):1032–4

Capillary zone electrophoresis in pharmaceutical analysis. Fanali S, et al. **Farmaco** 1990 Jun;45(6 Suppl):693–702 (16 ref.)

Quantitative determination of some pharmaceuticals in bulk drugs and tablets by proton magnetic resonance (PMR) spectroscopy. Shoukrallah I, et al. **Farmaco** 1990 Apr; 45(4):455–63

Uranium assay in milk and drug samples using solid-state track detectors. Bansal V, et al. **Health Phys** 1989 Dec; 57(6):985–7

The clinical value of drug analyses in deliberate self-poisoning. Rygnestad T, et al. **Hum Exp Toxicol** 1990 Jul;9(4):221–30

Drug adsorption to charcoals and anionic binding resins. al-Shareef AH, et al. **Hum Exp Toxicol** 1990 Mar;9(2):95–7

Alcohol in liquid pharmaceutical preparations—harmful for children [letter] Mathur GP, et al. **Indian Pediatr** 1990 Mar; 27(3):307–8

Rapid screening for 100 basic drugs and metabolites in urine using cation exchange solid-phase extraction and high-performance liquid chromatography with diode array detection. Logan BK, et al. **J Anal Toxicol** 1990 May-Jun; 14(3):154–9

Limits of linearity and detection for some drugs of abuse. Needleman SB, et al. **J Anal Toxicol** 1990 Jan-Feb; 14(1):34–8

A reassessment of 'use of corrected retention indices based on 1-nitroalkane and alkylarylketone scales for HPLC identification of basic drugs' [letter; comment] Smith RM, et al. **J Anal Toxicol** 1989 Nov-Dec;13(6):375–7 Comment on: J Anal Toxicol 1988 Nov-Dec;12(6):325–9.

Quantitation of polydimethylsiloxane in pharmaceutical formulations by gel permeation chromatography. Andersson S, et al. **J Chromatogr** 1989 Aug 30;477(2):474–6

Rapid headspace gas chromatographic method for the determination of liquid/gas partition coefficients. Guitart R, et al. **J Chromatogr** 1989 Jul 21;491(2):271–80

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography. Lang JK. **J Chromatogr** 1990 May 16; 507:157–63

Potential of wide bore open tubular columns in gas chromatographic analysis of drugs. Mehta AC. **J Chromatogr** 1989 Sep 29;494:1–11 (27 ref.)

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection. Posluszny JV, et al. **J Chromatogr** 1990 May 16;507:267–76

Comparison of high-performance liquid chromatography, supercritical fluid chromatography and capillary zone electrophoresis in drug analysis. Steuer W, et al. **J Chromatogr** 1990 May 16;507:125–40

Thin-layer chromatographic screening procedure for some drugs in horse plasma. Tanaka T, et al. **J Chromatogr** 1989 Nov 24;496(2):407–15

HPLC of biopolymers, pharmaceuticals, and natural products. Yu WL, et al. **J Chromatogr Sci** 1989 Nov; 27(11):626–52

Preanalytical considerations in drug assays in clinical pharmacokinetic studies. Mehta AC. **J Clin Pharm Ther** 1989 Aug;14(4):285–95 (42 ref.)

Drug assays in the office. Kauffman RE. **J Pediatr** 1990 Feb; 116(2):268–70

An improved method for the determination of distribution coefficients [letter] Stopher D, et al. **J Pharm Pharmacol** 1990 Feb;42(2):144

Sulphite content of Australian pharmaceutical products. Challen RG. **Med J Aust** 1990 Feb 19;152(4):196–8 (22 ref.)

Application of reflectance NIRS spectroscopy to pharmaceutical quality control solid binary mixtures. Corti P, et al. **Pharm Acta Helv** 1990;65(7):189–93

Effect of polymeric network structure on drug release from cross-linked poly(vinyl alcohol) micromatrices. Gander B, et al. **Pharm Res** 1989 Jul;6(7):578–84

Influence of temperature and hydrophobic group-associated icebergs on the activation energy of drug decomposition and its implication in drug shelf-life prediction. Kishore AK, et al. **Pharm Res** 1990 Jul;7(7):730–5

On the use of the quasi-equilibrium assumption for drug dissolution. Ozturk SS, et al. **Pharm Res** 1990 Apr; 7(4):425–9

In vitro dissolution profile of water-insoluble drug dosage forms in the presence of surfactants. Shah VP, et al. **Pharm Res** 1989 Jul;6(7):612–8

Abstracts of papers. Pharmaceutical and biomedical analysis meeting. Oss (The Netherlands), 17 November 1989. **Pharm Weekbl [Sci]** 1989 Dec 15;11(6 Suppl N):N1–11

Effect of technological factors on concentration of halogen derivative pesticides in some vegetable druga. Pluta J. **Pharmazie** 1990 Apr;45(4):273–5

Suitability of collection tubes with separator gels for therapeutic drug monitoring. Koch TR, et al. **Ther Drug Monit** 1990 May;12(3):277–80

[Simultaneous qualitative and quantitative analysis of mixtures by multivariate spectrophotometry] Liang YZ, et al. **Yao Hsueh Hsueh Pao** 1989;24(7):537–42 (Eng. Abstr.) **(Chi)**

[Studies on eliminating the influence of random errors of analytical methods on the content uniformity test] Luo X, et al. **Yao Hsueh Hsueh Pao** 1989;24(9):697–701 (Eng. Abstr.) **(Chi)**

[Analysis of theophylline and its sodium (or potassium) anisates by ultrafast high-performance liquid chromatography in different pharmaceutical preparations] Thomas J. **J Chromatogr** 1989 Oct 6;479(2):430–6 **(Fre)**

[Indirect spectrophotometric detection by reversed-phase liquid chromatography. Application in drug analysis] Herne P. **J Pharm Belg** 1990 Mar-Apr;45(2):151–9 (11 ref.) (Eng. Abstr.) **(Fre)**

[Reverse-phase HPLC of toxicologically relevant drug substances] Eigendorf HG, et al. **Pharmazie** 1990 Mar; 45(3):219–20 **(Ger)**

[Reverse phase-HPLC of toxicologically relevant active substances] Eigendorf HG, et al. **Pharmazie** 1989 Sep; 44(9):645–6 **(Ger)**

[The solubility of drugs in molten suppository bases] Pflegel P, et al. **Pharmazie** 1990 Apr;45(4):266–7 (Eng. Abstr.) **(Ger)**

[Application of ion exchangers for the preparation of biological probes in drug control] Witte P, et al. **Pharmazie** 1989 Oct;44(10):686–9 (88 ref.) **(Ger)**

[X-ray diffractometry in the analysis of drugs and pharmaceutical forms] Bettinetti GP. **Boll Chim Farm** 1989 May;128(5):149–62 (134 ref.) (Eng. Abstr.) **(Ita)**

[General considerations on the analysis of drug concentration in plasma] Noguchi H. **Nippon Rinsho** 1990 Feb;48 Suppl:1105–8 **(Jpn)**

[Immunoenzyme analysis of drugs] Kashkin AP, et al. **Tr Inst Pastera** 1988;64:59–70 (54 ref.) **(Rus)**

CLASSIFICATION

[Nontraditional areas for the use of pharmacologic preparations based on research on the molecular mechanisms of their action] Piruzian LA, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Nov-Dec;(6):838–42 (19 ref.) (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Drug test value by transcranial Doppler in the diagnosis of neurologic vascular diseases. Pendefunda L. **Neurol Psychiatr (Bucur)** 1990 Apr-Jun;28(2):135–41

[New advances in diagnostic drugs] Zhang WY, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jun;28(6):336–9 (16 ref.) **(Chi)**

ISOLATION & PURIFICATION

Chromatographic methods for optical purity determination of drugs. Allenmark S. **Acta Pharm Nord** 1990;2(3):161–70 (13 ref.)

Beta-cyclodextrin bonded silica for direct injection analysis of drug enantiomers in serum by liquid chromatography.

Haginaka J, et al. **Anal Chem** 1990 May 15;62(10):997–1000
Gradient elution in preparative liquid chromatography. Antia FD, et al. **Ann N Y Acad Sci** 1990;589:172–81
Versatile, efficient system for extracting drugs from urine for gas chromatographic/mass spectrometric analysis. Brooks KE, et al. **Clin Chem** 1989 Oct;35(10):2100–3
Effect of surfactant structures on the separation of cold medicine ingredients by micellar electrokinetic chromatography. Nishi H, et al. **J Pharm Sci** 1990 Jun; 79(6):519–23
Some marine ecological phenomena: chemical basis and biomedical potential. Scheuer PJ. **Science** 1990 Apr 13; 248(4952):173–7 (51 ref.)

METABOLISM

Genetic polymorphism of drug metabolism. Dumont E, et al. **Acta Clin Belg** 1989;44(3):157–60 (19 ref.)
A simple flow injection analysis for studies of drug–protein binding interactions in serum. Gizurarson S, et al. **Acta Pharm Nord** 1989;1(5):291–4
Different changes on hepatic drug–metabolizing system caused by non–steroid anti–inflammatory drugs. Fracasso ME, et al. **Acta Physiol Hung** 1990;75 Suppl:109–10
Drug metabolism in drug–induced liver diseases: pathogenetic role of active metabolites. Horváth T, et al. **Acta Physiol Hung** 1989;73(2–3):293–304
Effect of E. coli STa enterotoxin on intestinal drug absorption. McEwan GT, et al. **Acta Vet Scand Suppl** 1989; 86:189–91
Modification of drug metabolic processes by compounds which intervene with the function of cytochrome P–450 as a mono–oxygenase and as an oxidase. Tani E, et al. **Arzneimittelforschung** 1989 Nov;39(11):1399–402
Differential effects of fat deficiency on hepatic and pulmonary drug metabolizing enzymes in rat and mouse. Koul IB, et al. **Biochem Int** 1990;20(5):979–89
Evaluation of the involvement of a male specific cytochrome P–450 isozyme in senescence–associated decline of hepatic drug metabolism in male rats. Fujita S, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):3925–31
A model of cytochrome P–450–centered hepatic dysfunction in drug metabolism induced by cobalt–protoporphyrin administration. Muhoberac BB, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4103–13
Testing for bimodality in frequency distributions of data suggesting polymorphisms of drug metabolism—histograms and probit plots. Jackson PR, et al. **Br J Clin Pharmacol** 1989 Dec;28(6):647–53
Testing for bimodality in frequency distributions of data suggesting polymorphisms of drug metabolism—hypothesis testing. Jackson PR, et al. **Br J Clin Pharmacol** 1989 Dec; 28(6):655–62
Is cyclosporin A an inhibitor of drug metabolism? Li G, et al. **Br J Clin Pharmacol** 1990 Jul;30(1):71–7
Differences in hepatic drug accumulation and enzyme induction after chronic amiodarone feeding of two rat strains: role of the hydroxylator phenotype? Pirovino M, et al. **Br J Pharmacol** 1990 Jan;99(1):35–40
Hepatic effects of ketoconazole in the male Swiss Webster mouse: temporal changes in drug metabolic parameters. Whitehouse LW, et al. **Can J Physiol Pharmacol** 1990 Aug; 68(8):1136–42
Phosphatidylserine monolayers as models for drug uptake into membranes and tissue. Scheufler E, et al. **Cell Biol Int Rep** 1990 Apr;14(4):381–8
Footprinting analysis of sequence–specific DNA–drug interactions. Portugal J. **Chem Biol Interact** 1989; 71(4):311–24 (53 ref.)
Ozagrel hydrochloride monohydrate, a thromboxane synthase inhibitor, and its metabolites as inhibitors of hepatic microsomal drug metabolism. Morita K, et al. **Chem Pharm Bull (Tokyo)** 1989 Dec;37(12):3351–4
Effect of protein binding on high performance liquid chromatography analysis of drugs with an internal–surface reversed–phase silica column. Shibukawa A, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1311–5
Polymorphic drug metabolism. Relling MV. **Clin Pharm** 1989 Dec;8(12):852–63 (101 ref.)
Recent developments in hepatic drug oxidation. Implications for clinical pharmacokinetics. Brosen K. **Clin Pharmacokinet** 1990 Mar;18(3):220–39 (114 ref.)
The phenomenon and rationale of marked dependence of drug concentration on blood sampling site. Implications in pharmacokinetics, pharmacodynamics, toxicology and therapeutics (Part II). Chiou WL. **Clin Pharmacokinet** 1989 Oct;17(4):275–90 (166 ref.)
Clinical pharmacokinetic considerations in the elderly. An update. Dawling S, et al. **Clin Pharmacokinet** 1989 Oct; 17(4):236–63 (273 ref.)
Is there counter–current exchange of drugs in limbs after percutaneous absorption? Hecker JF. **Clin Pharmacokinet** 1989 Sep;17(3):141–4 (23 ref.)
Clinical pharmacokinetics in infants and children. A reappraisal. Kearns GL, et al. **Clin Pharmacokinet** 1989;17 Suppl 1:29–67 (291 ref.)
Drug metabolism and pharmacokinetics in malnourished children. Krishnaswamy K. **Clin Pharmacokinet** 1989;17 Suppl 1:68–88 (106 ref.)
Clinical pharmacology of the perinatal period and early infancy. Morselli PL. **Clin Pharmacokinet** 1989;17 Suppl 1:13–28 (167 ref.)
Pharmacokinetic drug interactions with phenytoin (Part II). Nation RL, et al. **Clin Pharmacokinet** 1990 Feb; 18(2):131–50 (329 ref.)
Plasma protein binding of drugs in pregnancy and in neonates. Notarianni LJ. **Clin Pharmacokinet** 1990 Jan; 18(1):20–36 (105 ref.)
Effect of dietary protein on renal tubular clearance of drugs in humans. Park GD, et al. **Clin Pharmacokinet** 1989 Dec; 17(6):441–51 (30 ref.)
Differences in plasma binding of drugs between Caucasians and Chinese subjects. Zhou HH, et al. **Clin Pharmacol Ther** 1990 Jul;48(1):10–7
The transmembrane and intracellular transport of drugs: interactions with the cytoskeletal network. Bilej M, et al. **Crit Rev Ther Drug Carrier Syst** 1989;6(2):613–91 (268 ref.)
Proceedings of the first congress of the European Society for Developmental Pharmacology. Les Diablerets, Switzerland, April 21–23, 1988. **Dev Pharmacol Ther** 1989; 13(2–4):57–209
Genetic polymorphisms of drug metabolism. Possible implications during development. Jacqz–Aigrain E. **Dev Pharmacol Ther** 1989;13(2–4):78–84 (18 ref.)
Ontogeny and regulation of drug metabolism in humans. Phase I: Monooxygenases. Leroux JP, et al. **Dev Pharmacol Ther** 1989;13(2–4):63–9 (26 ref.)
The effect of hepatic blood flow on formation of metabolites. Pang KS, et al. **Drug Metab Dispos** 1990 May–Jun; 18(3):270–5 (38 ref.)
A reversible clearance model for the enterohepatic circulation of drug and conjugate metabolite pair. Semmes RL, et al. **Drug Metab Dispos** 1990 Jan–Feb;18(1):80–7
Symposium in honor of the retirement of Professor Gilbert J. Mannering. June 13–14, 1988, Minneapolis, Minnesota. Proceedings. **Drug Metab Rev** 1989;20(2–4):153–853
What can the use of unmetabolizable lipophilic compounds tell about the importance of drug metabolism? Bickel MH. **Drug Metab Rev** 1989;20(2–4):441–7
Use of bile fistulas to solve problems of drug metabolism. Cooper DY, et al. **Drug Metab Rev** 1989;20(2–4):601–13 (17 ref.)
Drug metabolism and toxicity during hypoxia. Jones DP, et al. **Drug Metab Rev** 1989;20(2–4):247–60 (50 ref.)
Drug–protein conjugation and its immunological consequences. Park BK, et al. **Drug Metab Rev** 1990; 22(1):87–144 (186 ref.)
Biological consequences of drug sulphoxidation. Mitchell SC. **Drug Metabol Drug Interact** 1988;6(3–4):245–52 (19 ref.)
The effect of dietary energy and protein deficiency on drug metabolism. Hamberg O, et al. **Eur J Clin Pharmacol** 1990; 38(6):567–70
NMR studies of drug metabolism and disposition. Bell JD, et al. **Eur J Drug Metab Pharmacokinet** 1990 Apr–Jun; 15(2):127–33 (56 ref.)
Calculation of drug–melanin binding energy using molecular modeling. Raghavan PR, et al. **Experientia** 1990 Jan 15; 46(1):77–80
Theoretical analysis of the footprinting experiment. Goodisman J, et al. **J Biomol Struct Dyn** 1985 Feb; 2(5):967–79
Determination of drug protein–binding by high–performance liquid chromatography using a chemically bonded bovine albumin stationary phase. Lammers N, et al. **J Chromatogr** 1989 Nov 24;496(2):291–300
Drug metabolism in end–stage liver disease. In vitro activities of some phase I and phase II enzymes. Iqbal S, et al. **J Hepatol** 1990 Jul;11(1):37–42
Reconstituted epidermis: a novel model for the study of drug metabolism in human epidermis. Pham MA, et al. **J Invest Dermatol** 1990 Jun;94(6):749–52
British Pharmaceutical Conference 1989. Science proceedings. 126th meeting, Keele, September 11–14, 1989. **J Pharm Pharmacol** 1989 Dec;41 Suppl:1P–175P
Comparative drug exsorption in the perfused rat intestine. Huang JD. **J Pharm Pharmacol** 1990 Mar;42(3):167–70
Epithelial transport of drugs in cell culture. II: Effect of extracellular calcium concentration on the paracellular transport of drugs of different lipophilicities across monolayers of intestinal epithelial (Caco–2) cells. Artursson P, et al. **J Pharm Sci** 1990 Jul;79(7):595–600
Use of 1–anilino–8–naphthalene sulfonate as a fluorescent probe in the investigation of drug interactions with human alpha–1–acid glycoprotein and serum albumin. Essassi D, et al. **J Pharm Sci** 1990 Jan;79(1):9–13
Proceedings of the 10th Symposium on the Interaction between Biological Membranes and Drugs. November 17, 18, 1988, Sendai. **J Pharmacobiodyn** 1989 May; 12(5):s118–30
Proceedings of the 20th Symposium on Drug Metabolism and Action. October 12, 13, 1989, Sapporo. Abstracts. **J Pharmacobiodyn** 1990 Apr;13(4):s55–100
Alteration of plasma sex hormone levels associated with old age and its effect on hepatic drug metabolism in rats. Fujita S, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):369–74
Differential regulation of heme and drug metabolism in rat testis and prostate: response to cis–platinum and human chorionic gonadotropin. Iscan M, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):73–9
Estimation of agonist affinity and efficacy by direct, operational model–fitting. Leff P, et al. **J Pharmacol Methods** 1990 May;23(3):225–37
Design and analysis of protein binding experiments. Khan AZ, et al. **J Theor Biol** 1989 Sep 22;140(2):145–66
Effects of ethanol on microsomal drug metabolism in aging female rats. III. In vivo. Rikans LE, et al. **Mech Ageing Dev** 1990 Jul;55(1):61–7
Deutsche Gesellschaft für Pharmakologie und Toxikologie. Abstracts of the first winter meeting. 23–24 November 1989, Hannover. **Naunyn Schmiedebergs Arch Pharmacol** 1989;340 Suppl 2:R65–93
Fifth annual meeting and exposition. American Association of Pharmaceutical Scientists. November 4–8, 1990, Las Vegas. Abstracts. **Pharm Res** 1990 Sep;7(9 Suppl):S1–305
The use of cultured epithelial and endothelial cells for drug transport and metabolism studies. Audus KL, et al. **Pharm Res** 1990 May;7(5):435–51 (227 ref.)
Effects of first–pass metabolism on metabolite mean residence time determination after oral administration of parent drug. Chan KK, et al. **Pharm Res** 1990 Jan;7(1):59–63
Mean residence times of multicompartmental drugs undergoing reversible metabolism. Cheng HY, et al. **Pharm Res** 1990 Jan;7(1):103–7
Influence of absorption rate, dosing frequency, and intrinsic pharmacokinetic profile on steady–state drug concentrations. Eldon MA, et al. **Pharm Res** 1990 Jun; 7(6):677–80
Enhanced in vitro skin permeation of cationic drugs. Green PG, et al. **Pharm Res** 1989 Jul;6(7):628–32
Drug binding and solubility in milk. Macheras PE, et al. **Pharm Res** 1990 May;7(5):537–41
Binding of drugs in milk: the role of casein in milk protein binding. Stebler T, et al. **Pharm Res** 1990 Jun;7(6):633–7
Contribution of monoamine oxidase(MAO) to the binding of tertiary basic drugs in isolated perfused rat lung. Yoshida H, et al. **Pharm Res** 1990 Apr;7(4):398–401
Contribution of monoamine oxidase (MAO) to the binding of tertiary basic drugs in lung mitochondria. Yoshida H, et al. **Pharm Res** 1989 Oct;6(10):877–82
Participation of lipid peroxidation in the loss of hepatic drug–metabolizing activities in experimental fascioliasis in the rat. Maffei Facino R, et al. **Pharmacol Res** 1989 Sep–Oct;21(5):549–60
Metabolism of drugs and other xenobiotics in the gut lumen and wall. Ilett KF, et al. **Pharmacol Ther** 1990;46(1):67–93 (288 ref.)
Human drug metabolism in vivo. Sitar DS. **Pharmacol Ther** 1989;43(3):363–75 (91 ref.)
Drug glucosidation. Tang BK. **Pharmacol Ther** 1990; 46(1):53–6 (26 ref.)
V Conference on Ethanol–Drugs Interactions. The Polish Pharmacological Society. Łódź, May 27, 1988. Proceedings. **Pol J Pharmacol Pharm** 1989 May–Jun; 41(3):203–92
Nutritional effects on hepatic drug metabolism in the elderly. Anderson KE. **Prog Clin Biol Res** 1990;326:263–77 (55 ref.)
Genetic polymorphisms of drug metabolism. Meyer UA, et al. **Prog Liver Dis** 1990;9:307–23 (78 ref.)
Genetic polymorphism in drug oxidation. Kalow W. **Psychopharmacol Ser** 1989;7:148–62 (107 ref.)
Genetic polymorphisms of drug–metabolizing enzymes: molecular mechanisms. Meyer UA, et al. **Psychopharmacol Ser** 1989;7:141–7 (19 ref.)
Evolution of the P450 gene superfamily: animal–plant 'warfare', molecular drive and human genetic differences in drug oxidation. Gonzalez FJ, et al. **Trends Genet** 1990 Jun;6(6):182–6 (37 ref.)
A 'cocktail' strategy to assess in vivo oxidative drug metabolism in humans. Breimer DD, et al. **Trends Pharmacol Sci** 1990 Jun;11(6):223–5 (23 ref.)
The use of single sample clearance estimates to probe hepatic drug metabolism: handprinting the influence of cigarette smoking on human hepatic drug metabolism. Bachmann KA, et al. **Xenobiotica** 1990 May;20(5):537–47
The use of single–sample clearance estimates to probe hepatic drug metabolism in rats. IV. A model for possible application to phenotyping xenobiotic influences on human drug metabolism. Bachmann KA. **Xenobiotica** 1989 Dec; 19(12):1449–59
[Drugs and the culturing of hepatocytes] Bourel M, et al. **Bull Acad Natl Med** 1989 Apr;173(4):409–12; discussion 412–4 (Eng. Abstr.) **(Fre)**
[Primates in studies on the safety of drugs] Verschuere B, et al. **Pathol Biol (Paris)** 1990 Mar;38(3):221–4 (18 ref.) (Eng. Abstr.) **(Fre)**
[Genetic polymorphism of acetylation and hydroxylation in the Briton population] Bressollette L, et al. **Therapie** 1990 Mar–Apr;45(2):99–103 (Eng. Abstr.) **(Fre)**
[Methods for studying the hepatic metabolism of drugs in man] Geneve J, et al. **Therapie** 1990 Mar–Apr;45(2):91–7 (60 ref.) (Eng. Abstr.) **(Fre)**
[Pharmacokinetics, drug metabolism conference 1987] **Acta Pharm Hung** 1989;59 Suppl 1:1–79 **(Hun)**
[Endogenous metabolites as modulators of the transport of drugs by serum albumin] Bender KI, et al. **Farmakol Toksikol** 1990 May–Jun;53(3):72–80 (136 ref.) (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Update on the statistical analysis of bioequivalence studies. Steinijans VW, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Mar;28(3):105–10
New pharmacokinetic methods: I. Estimation of mean serum concentration from trough serum concentration. Browne TR, et al. **J Clin Pharmacol** 1990 Jun;30(6):482–8
Lack of effectiveness of generic drugs given to Worker's Compensation patients [letter] Gillette RD. **Ohio Med** 1990

Jul;86(7):490

STANDARDS

Generic standards: prospects and pitfalls. Bell RH. **Ann N Y Acad Sci** 1989;572:90–2; discussion 107–9

Occupational exposure limits for therapeutic substances. Agius R. **Ann Occup Hyg** 1989;33(4):555–62 (29 ref.)

The risks of substitution of therapeutic modalities by cheaper and sometimes less effective agents [letter] Brook I. **Arch Intern Med** 1990 Mar;150(3):688–9

Rational limits for drug impurities. Hubert BB. **Drug Saf** 1990; 5 Suppl 1:88–94 (18 ref.)

FDA pressure? [letter] [see comments] Appleton BL. **Nature** 1990 Mar 8;344(6262):99 Comment in: Nature 1990 Jun 21;345(6277):657.

The acceptable face of international competition. Stereophobia: an economic afterthought [letter] Ariëns EJ. **Trends Pharmacol Sci** 1988 Sep;9(9):317

WHO Expert Committee on Specifications for Pharmaceutical Preparations. Thirty-first report. **WHO Tech Rep Ser** 1990;790:1–79

Quality control of drugs [letter] Vincent-Ballereau F, et al. **World Health Forum** 1989;10(2):236–7

[Registration and distribution of veterinary drugs up to and after 1992] Frens J. **Tijdschr Diergeneeskd** 1990 Jan 1; 115(1):22–6 **(Dut)**

[Information on the composition of chemical preparations for sale on the Belgian market] **Arch Belg** 1988; 46(7–8):389–95 **(Fre)**

[Good laboratory practices. Instruments for quality control in legally required drug testing] Kayser D. **Pharm Unserer Zeit** 1990 Jul;19(4):153–6 **(Ger)**

[Methods of standardization of drug assortments for special situations and catastrophic events] Klock H, et al. **Pharmazie** 1990 Apr;45(4):275–81 (Eng. Abstr.) **(Ger)**

[Study of some official pharmaceutical preparations in the Sixth Edition of Formule Normales by thin-layer chromatography] Magyar L, et al. **Acta Pharm Hung** 1990 May;60(2–3):77–83 (Eng. Abstr.) **(Hun)**

[The cheapest synonymous preparations—a proposal with unwanted consequences (letter)] Rytter E. **Tidsskr Nor Laegeforen** 1989 Nov 20;109(32):3359–60 **(Nor)**

SUPPLY & DISTRIBUTION

The use of essential drugs. Third report of the WHO Expert Committee [news] **Bull Int Union Tubere Lung Dis** 1989 Jun;64(2):45–6

Use caution when donating drugs, guidelines suggest. Riggs B. **Can Med Assoc J** 1990 Jan 1;142(1):65–6

Hospital survey shows trends in drug purchases. Souhrada L. **Hospitals** 1989 Oct 20;63(20):84

Essential drugs in primary health care. Paul D. **Indian J Pediatr** 1989 Jan–Feb;56(1):4–5

More on veterinary drug distribution channels [letter; comment] **J Am Vet Med Assoc** 1989 Dec 15; 195(12):1680–1 Comment on: J Am Vet Med Assoc 1989 Oct 15;195(8):1054.

Veterinary drug distribution channels [letter; comment] [see comments] Wise JK. **J Am Vet Med Assoc** 1989 Oct 15; 195(8):1054 Comment on: J Am Vet Med Assoc 1989 Aug 15;195(4):438–9. Comment in: J Am Vet Med Assoc 1989 Dec 15;195(12):1680–1.

WHO's essential drugs concept [editorial] **Lancet** 1990 Apr 28;335(8696):1003–4

Drug donations to Sudan [letter] Cohen S. **Lancet** 1990 Sep 22;336(8717):745

Profitable dispensing. Hallberg JW. **Vet Clin North Am Food Anim Pract** 1989 Nov;5(3):567–74

[1992: pills without limits?] Offerhaus L. **Ned Tijdschr Geneeskd** 1990 Apr 21;134(16):821–7 **(Dut)**

[Clinical pharmacology and the selection of drugs] Stanulović M. **Med Pregl** 1989;42(11–12):391–4 (Eng. Abstr.) **(Scr)**

TOXICITY

Abstracts of papers presented at the International Meeting on the Toxicity of Drugs and Other Chemicals. July 29–August 2, 1986, Beijing, China. **Biomed Environ Sci** 1988 Aug;1(2):222–34

Three models of free radical-induced cell injury. Comporti M. **Chem Biol Interact** 1989;72(1–2):1–56 (356 ref.)

Toxicology of topical therapy. McGuigan M. **Clin Dermatol** 1989 Jul–Sep;7(3):32–7 (30 ref.)

In vitro models. Anderson D. **Drug Saf** 1990;5 Suppl 1:27–39 (45 ref.)

Therapeutic challenges. Prenatal and paediatric safety considerations. Kauffman RE. **Drug Saf** 1990;5 Suppl 1:65–70 (17 ref.)

Animal models. Plaa GL. **Drug Saf** 1990;5 Suppl 1:40–5 (24 ref.)

An overview of prechronic and chronic toxicity/carcinogenicity experimental study designs and criteria used by the National Toxicology Program. Chhabra RS, et al. **Environ Health Perspect** 1990 Jun;86:313–21 (37 ref.)

The luminescent bacteria toxicity test: its potential as an in vitro alternative. Bulich AA, et al. **J Biolumin Chemilumin** 1990 Apr–Jun;5(2):71–7

Mutagenicity of 30 Chinese herbs and pharmaceuticals. Huang NJ, et al. **Prog Clin Biol Res** 1990;340E:215–24

Genotoxicity of new Japanese chemicals. Matsushima T. **Prog Clin Biol Res** 1990;340E:251–5

TOX-RISK: a program for fitting dose-response formulae and extrapolating between species. Crouch EA. **Risk Anal** 1989 Dec;9(4):599–603

Clinical laboratory tests on laboratory animals during toxicity studies. **Scand J Clin Lab Invest Suppl** 1989;195:13–5

Toxicology of selected pesticides, drugs, and chemicals. **Vet Clin North Am Small Anim Pract** 1990 Mar; 20(2):283–556

[Different viewpoints on preclinical immunotoxicologic tests in vivo and in vitro] Procházková J, et al. **Cesk Farm** 1989 Jul;38(5):233–5 **(Cze)**

[Adverse or toxic effects of drugs in medical practice: a one-year follow-up] Grange JC. **Therapie** 1990 Jul–Aug; 45(4):331–4 (Eng. Abstr.) **(Fre)**

[Problems of species specificity in toxicity evaluation. 4. Species specificity in physiological functions] Ono H. **J Toxicol Sci** 1989 Dec;14 Suppl 3:45–9 **(Jpn)**

[Accelerated methods for studying gonadotoxic effects of substances] Ivanov IuV. **Gig Sanit** 1990 Jan;(1):72–4 **(Rus)**

DRUGS, CHINESE HERBAL

see related
MEDICINE, CHINESE TRADITIONAL

Separation and determination of 8beta-hydroxyasterolid and perlolyrine in Codonopsis pilosula by reversed-phase high-performance liquid chromatography. Tun L, et al. **J Chromatogr** 1989 Aug 30;477(2):458–62

Determination of glycyrrhizin and its metabolite glycyrrhetinic acid in rabbit plasma by high-performance liquid chromatography after oral administration of licorzin. Zhang XY, et al. **J Chromatogr** 1989 Oct 27;495:343–8

Inhibition of cytotoxic drug-induced vomiting in suncus by a ginger constituent. Yamahara J, et al. **J Ethnopharmacol** 1989 Dec;27(3):353–5

Glucosylsterols in extracts of Euryale ferox identified by high resolution NMR and mass spectrometry. Zhao HR, et al. **J Lipid Res** 1989 Oct;30(10):1633–7

[Ultrafiltration properties in preparing injections of Chinese medicinal herbs using a J-48 ultrafilter] Chi Q, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct;14(10):601–3, 639 (Eng. Abstr.) **(Chi)**

[Component analysis of the extracellular polysaccharide from Mortierella hepiali Chen et Lu sp. nov.] Li XM, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Feb;14(2):31–3, 62 (Eng. Abstr.) **(Chi)**

[Some factors influencing the determination of the softening point of plaster] Lin YH, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):475–7, 511 (Eng. Abstr.) **(Chi)**

[Effects of Cymbopogon goeringii (Steud.) A. Camus volatile oil on physiologic properties of the isolated guinea pig myocardium] Liu M, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct;14(10):620–3, 640 (Eng. Abstr.) **(Chi)**

[Consideration and reflection on the study of the processing of Chinese herbal medicine] Lu W, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb;15(2):89–92, 126 (Eng. Abstr.) **(Chi)**

[Identification and determination of borneol in liyan gao by TLC and GC] Xie PD, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jul;14(7):415–7, 446–7 (Eng. Abstr.) **(Chi)**

[Studies on water extract limits of Caulis Aristolochiae Manshuriensis] Yang XC, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):455–7, 509 (Eng. Abstr.) **(Chi)**

[A theory on Chinese drugs and their system structure] Yu YG. **Chung Kuo Chung Yao Tsa Chih** 1989 Sep;14(9):560–2, 576 (Eng. Abstr.) **(Chi)**

[A comment on studies of Chinese herbal processing in 1988] Yuan ST, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov; 14(11):643–5 (35 ref.) **(Chi)**

[The status of Yunnan Dendrobium drugs and their botanical origin] Zheng B. **Chung Kuo Chung Yao Tsa Chih** 1990 Jan;15(1):9–12, 61–2 (Eng. Abstr.) **(Chi)**

ADMINISTRATION & DOSAGE

Antifungal activity in human cerebrospinal fluid and plasma after intravenous administration of Allium sativum. Davis LE, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):651–3

Treatment of chronic renal failure by retention-enema with rhizoma rhei compound decoction. Bi ZQ, et al. **J Tradit Chin Med** 1982 Sep;2(3):211–4

Observations on efficacy of treatment of 279 cases of cervical spondylopathy with medicinal pillow. Li S. **J Tradit Chin Med** 1990 Jun;10(2):124–5

Treatment of functional headache with Chinese herbal inhalant—a report of 496 cases. Lin F, et al. **J Tradit Chin Med** 1990 Jun;10(2):94–6

External application of the renal failure recipe on acupoints for the treatment of uremia in 8 cases. Wang G, et al. **J Tradit Chin Med** 1990 Jun;10(2):99–100

Auricular acupoint pellet pressure therapy in the treatment of cholelithiasis. Wang T, et al. **J Tradit Chin Med** 1990 Jun;10(2):126–31

Ulmus macrocarpa hance for the treatment of ulcerative colitis—a report of 36 cases. Ye G, et al. **J Tradit Chin Med** 1990 Jun;10(2):97–8

[Status epilepticus induced by prolonged immersion in hot herb bath: report of one case] Juang KC, et al. **Acta Paediatr Sin** 1989 Sep–Oct;30(5):356–60 (Eng. Abstr.) **(Chi)**

[Treatment of rheumatoid arthritis with low doses of multi-glycosides of Tripterygium wilfordii] Tao X, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May;10(5):289–91, 261–2 (Eng. Abstr.) **(Chi)**

[Congestive heart failure treated by a combination of cyclovirobuxine D with digoxin] Yan M. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):88–9, 69 (Eng. Abstr.) **(Chi)**

[Recent application of the rectal administration of Chinese herbal drugs] Jiang L. **Chung Kuo Chung Yao Tsa Chih** 1989 Jun;14(6):349–51 (21 ref.) **(Chi)**

[An experiment on technology for flow granulating of traditional Chinese medicine] Lin YH, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Sep;14(9):537–8, 574 (Eng. Abstr.) **(Chi)**

[Basal studies on combination of Chinese medicine in cancer chemotherapy: protective effects on the toxic side effects of CDDP and antitumor effects with CDDP on murine bladder tumor (MBT-2)] Ebisuno S, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Jun 20;24(6):1305–12 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Patch testing of 11 common herbal topical medicaments in Hong Kong. Lee TY, et al. **Contact Dermatitis** 1990 Mar; 22(3):137–40

[A case of pneumonitis due to sho-saiko-to] Tsukiyama K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Dec; 27(12):1556–61 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Analysis and processing of Chinese herbal drugs. VIII: The study of sophorae floe. Liu IM, et al. **Am J Chin Med** 1989;17(3–4):179–87

Chemical constituents of pericarps of Rosa davurica Pall., a traditional Chinese medicine. Kuang HX, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug;37(8):2232–3

Study on the constituents of Desmodium styracifolium. Kubo T, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug;37(8):2229–31

Inorganic chemical approaches to pharmacognosy. V. X-ray fluorescence spectrometric studies on the inorganic constituents of crude drugs. (3). On the cinnamomi cortex. Mino Y, et al. **Chem Pharm Bull (Tokyo)** 1990 Mar; 38(3):709–13

New triterpenes from a Chinese medicine, goreishi. Numata A, et al. **Chem Pharm Bull (Tokyo)** 1990 Apr;38(4):942–4

The major pectic arabinogalactan having activity on the reticuloendothelial system from the roots and rhizomes of Saposhnikovia divaricata. Shimizu N, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1329–32

Saponins from Chinese folk medicine, "zhu jie xiang fu," Anemone raddeana REGEL [published erratum appears in Chem Pharm Bull (Tokyo) 1989 Dec;37(12):3435] Wu FE, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2445–7

Application of analytical high-speed counter-current chromatography to the isolation of bioactive natural products. Lee YW, et al. **J Chromatogr** 1989 Aug 30; 477(2):434–8

Novel secoiridoid lactones from Jasminum multiflorum. Shen YC, et al. **J Nat Prod** 1989 Sep–Oct;52(5):1060–70

Steroidal saponins from the rhizomes of Polygonatum sibiricum. Son KH, et al. **J Nat Prod** 1990 Mar–Apr; 53(2):333–9

A new kalium channel blocker of Chinese medicinal origin—benzyltetrahydropalmatine hydrochloride. Yao WX, et al. **J Tongji Med Univ** 1990;10(1):1–4

Sarothralin G: a new antimicrobial compound from Hypericum japonicum. Ishiguro K, et al. **Planta Med** 1990 Jun;56(3):274–6

A new active saponin from Phytolacca esculenta. Yi YH, et al. **Planta Med** 1989 Dec;55(6):551–2

Esculentoside L and K: two new saponins from Phytolacca esculenta. Yi YH. **Planta Med** 1990 Jun;56(3):301–3

Determination of avicularin in Polygonum aviculare L. by square wave polarography. Zhang XQ, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(4):193–5

Screening of 5 monomers from total glucosides of Tripterygium wilfordii. Zheng JR, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(3):175–7

Structure of yingzhaosu C and D. Zhang LA, et al. **Sci China [B]** 1989 Jul;32(7):800–7

Determination of total flavonoids in Epimedium brevicornum maxim by differential pulse polarography. Xu LX, et al. **Yao Hsueh Hsueh Pao** 1989;24(8):606–10

Determination of taxol in the extract of taxus chinensis by reversed phase HPLC. Xu LX, et al. **Yao Hsueh Hsueh Pao** 1989;24(7):552–5

Coulometric titration of total flavonoids in Sophora japonica L. Xu LX, et al. **Yao Hsueh Hsueh Pao** 1989;24(10):755–8

[A FAAS analysis of seven elements and a preliminary exploration of their resistance to aging in huanjingjian oral liquid] Cai XM, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):473–5, 510 (Eng. Abstr.) **(Chi)**

[Determination of saikosapoains in radix Bupleuri using HPLC] Dong YY, et al.

Chung Kuo Chung Yao Tsa Chih 1989 Nov;14(11):678–81, 703–4 (Eng. Abstr.) (Chi)

[Studies on the alkaloids of radix Sophorae Tonkinensis] Dou JH, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May; 14(5):296–8, 319 (Eng. Abstr.) (Chi)

[Studies on the chemical composition of Lysimachia fortunei Maxim] Fang AP, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Dec;14(12):739–41, 763 (Eng. Abstr.) (Chi)

[Pharmacognostic studies on the peel of Citrus reticulata Blanco cv. zhangshuensis and Citrus reticulata Blanco Var. kinokuni (Tanaka) H. H. Hu produced in Jiangxi] Fang CS, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct; 14(10):581–3, 637 (Eng. Abstr.) (Chi)

[Quantitative determination of 5 alkaloids in plants of Coptis from China] Fang XP, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Feb;14(2):33–5, 63 (Eng. Abstr.) (Chi)

[Isolation and identification of flavonoids and organic acids from Gynostemma pentaphyllum Makino] Fang ZP, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov;14(11):676–8, 703 (Eng. Abstr.) (Chi)

[Chemical constituents of Isodon parvifolia (Batalin) Hara] Guo Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb; 15(2):101–3, 127 (Eng. Abstr.) (Chi)

[Chemical constituents of Codonopsis pilosula Nannf.] Han G, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb; 15(2):105–6, 127 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Ardisia crenata Sims] Han L, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Dec; 14(12):737–9, 762–3 (Eng. Abstr.) (Chi)

[Comparative analysis of ursolic acid in Crataegus pinnatifida Bge. var. major N.E. Br. before and after processing] Jia YY, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug; 14(8):466–8, 510 (Eng. Abstr.) (Chi)

[Qualitative identification of tongxieng granules] Jiang ML, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov; 14(11):668–70, 702–3 (Eng. Abstr.) (Chi)

[Quantitative determination of total alkaloids in radix Gelsemii and its preparation using a colorimetric method with acid dye] Li JJ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Nov;14(11):670–2, 703 (Eng. Abstr.) (Chi)

[Analysis of trace elements in fructus Ligustri Lucidi and its processed products] Li ML, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Dec;14(12):727–9, 762 (Eng. Abstr.) (Chi)

[Appiication of equal value derivative spectrophotometry to the determination of coptis alkali in wanshi niuhuang qingxin pills] Lin L. **Chung Kuo Chung Yao Tsa Chih** 1990 Jan;15(1):32–4, 63 (Eng. Abstr.) (Chi)

[Chemical constituents of Cordyceps mililaris (L.) Link.] Liu JM, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct; 14(10):608–9, 639 (Eng. Abstr.) (Chi)

[Comparison of some trace element contents of Eucommia ulmoides Oliv. and its processed products] Liu ST, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct;14(10):596–8, 638 (Eng. Abstr.) (Chi)

[GC–MS analysis of essential oils from four Vitex species] Pan JG, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jun; 14(6):357–9, 383 (Eng. Abstr.) (Chi)

[TLC densitometric determination of oleanolic acid in Ligustrum lucidum Ait.] Rong Y, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Nov;14(11):681–2, 704 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Arissema fargesii Buchetl] Song ZZ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Aug;14(8):480–2, 511 (Eng. Abstr.) (Chi)

[TLC-densitometric determination of sarsasapogenin in Anemarrhena asphodeloides Bge.] Sun WJ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):546–8, 575 (Eng. Abstr.) (Chi)

[Determination of alkaloids in Aconite roots by HPLC] Tong Y. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb;15(2):106–8, 127–8 (Eng. Abstr.) (Chi)

[Determination of Lignans in the fruits of Schisandra chinensis (Trucz.) Baill. and S. Sphenanthern Rehd. et Wils. using HPLC and their chromatograms] Tong YY, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct;14(10):611–4, 639–40 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of the roots of Aralia continentalis Kitag] Wang GS, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Jul;14(7):422–4, 447 (Eng. Abstr.) (Chi)

[Determination of hydroxygenkwanin and genkwanin in flos Genkwa before and after processing by a TLC–scanner] Wang HZ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov;14(11):664–6, 702 (Eng. Abstr.) (Chi)

[A new athraquinone compound from the stem and leaves of Tripterygium wilf or dii Hook. f.] Xia ZL, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Nov;14(11):675–6, 703 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Excoecaria cochinchinensis Lour. var. viridis Merr.] Xie JM, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May;14(5):292–4, 319 (Eng. Abstr.) (Chi)

[Studies on the essential oils of flos Magnoliae] Xu ZL, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May;14(5):294–6, 319 (Eng. Abstr.) (Chi)

[Exploration on baking conditions for Atractylodes macrocephala Kloidz in qiweibaizhusan bags] Yang YH, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May; 14(5):285–7, 318 (Eng. Abstr.) (Chi)

[Extraction of effective parts of Alternanthera philoxeroides (Mart.) Griseb. and its antiviral effect] Yang ZQ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):488–90, 511–2 (Eng. Abstr.) (Chi)

[Determination of ethyl paraben in shengmaiyin oral liquid using gas chromatography] Ye CY, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):539–40, 574 (Eng. Abstr.) (Chi)

[A research on the constituents of ginger in various preparations] Ye DJ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 May;14(5):278–80, 318 (Eng. Abstr.) (Chi)

[Extraction–spectrophotometric determination of copper in tablets and injections of Chinese medicine] Yen JC, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Feb;14(2):23–4, 62 (Eng. Abstr.) (Chi)

[Chemical constituents of Dysosma aurantiocaulis (H.–M.) Hu and Dysosma pleianthum Woods] Yin ML, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Jul;14(7):420–1, 447 (Eng. Abstr.) (Chi)

[Identification of flavonoids from Oxytropis glabra DC.] Yu RM, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug; 14(8):482–4, 511 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Schizonepeta mulifida (L.) Briq.] Zang YW.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):544–5, 574–5 (Eng. Abstr.) (Chi)

[A brief review of chemical studies of the medicinal plant houpo] Zhang GD. **Chung Kuo Chung Yao Tsa Chih** 1989 Sep;14(9):565–8, 576 (28 ref.) (Eng. Abstr.) (Chi)

[Volatile components of herbal Cynomorii] Zhang S, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb;15(2):103–5, 127 (Eng. Abstr.) (Chi)

[A study on the quality of fruits of Citrus aurantium L. (zhishi and Zhiqiao) produced in Jiangxi] Zhang ZZ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):520–2, 573 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Acronychia pedunculata (L.) Mig.] Zhou FX, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Feb;14(2):30–1, 62 (Eng. Abstr.) (Chi)

[Chemical studies on the constituents of radix Ophiopogonis] Zhu YX, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jun; 14(6):359–60, 383 (Eng. Abstr.) (Chi)

[Studies on triterpenoids of total glucosides of Tripterygium wilfordii (T II)] Zhang CP.
Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1989 Oct; 11(5):322–5 (Eng. Abstr.) (Chi)

[Studies on lactone constituents from Boennighausenia sessilicarpa Lévl] Chen YS. **Yao Hsueh Hsueh Pao** 1989; 24(4):260–3 (Eng. Abstr.) (Chi)

[Studies on chemical constituents of Astragalus complanatus R. BR.] Cui BL, et al. **Yao Hsueh Hsueh Pao** 1989; 24(3):189–93 (Eng. Abstr.) (Chi)

[Studies on antifertility constituents of Siegesbeckia glabrescens Mak] Dong XY, et al.
Yao Hsueh Hsueh Pao 1989;24(11):833–6 (Eng. Abstr.) (Chi)

[Studies on antibacterial constituents from Gerbera anandria (L.) Sch Bip. IV] Gu LH, et al. **Yao Hsueh Hsueh Pao** 1989;24(10):744–8 (Eng. Abstr.) (Chi)

[The isolation and identification of PAF inhibitors from Piper wallichii (Miq.) Hand–Mazz and P. hancei Maxim.] Han GQ, et al. **Yao Hsueh Hsueh Pao** 1989;24(6):438–43 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Piper macropodum C.DC] Hou CY, et al. **Yao Hsueh Hsueh Pao** 1989; 24(10):789–92 (Eng. Abstr.) (Chi)

[Studies on the structures of new flavonoids from the root of Scutellaria amoena] Hu BH, et al.
Yao Hsueh Hsueh Pao 1989;24(3):200–6 (Eng. Abstr.) (Chi)

[HPTLC scanning determination of 6 flavonoids in 166 Rhododendron species] Hu M, et al.
Yao Hsueh Hsueh Pao 1989;24(12):923–31 (Eng. Abstr.) (Chi)

[Research on correlations between climatic factors and diosgenin content in Dioscorea zingiberensis Wright] Huai ZP, et al. **Yao Hsueh Hsueh Pao** 1989;24(9):702–6 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Curcuma kwangsiensis] Jiang DQ, et al. **Yao Hsueh Hsueh Pao** 1989; 24(5):357–9 (Eng. Abstr.) (Chi)

[Studies on isolation, purification and structure of NLC–A of Rhamnus heterophyllus] Jiao PY, et al.
Yao Hsueh Hsueh Pao 1989;24(5):353–6 (Eng. Abstr.) (Chi)

[The constituents of C21–steroids from Dregea sinensis var. corrugata] Jin QD, et al. **Yao Hsueh Hsueh Pao** 1989; 24(8):587–92 (Eng. Abstr.) (Chi)

[Studies of the active constituents of the Chinese drug "duhuo" Angelica pubescents] Li RZ, et al.
Yao Hsueh Hsueh Pao 1989;24(7):546–51 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of the root of Desmos cochinchinensis Lour] Liao SX, et al.
Yao Hsueh Hsueh Pao 1989;24(2):110–3 (Eng. Abstr.) (Chi)

[Studies on the structures of two new alkaloidal glucosides of Nauclea officinalis Pierre ex pitard] Lin M, et al.
Yao Hsueh Hsueh Pao 1989 Jan;24(1):32–6 (Eng. Abstr.) (Chi)

[Determination of berberine in Angong Niuhuang Wan by HPLC] Lin SL, et al. **Yao Hsueh Hsueh Pao** 1989 Jan; 24(1):48–52 (Eng. Abstr.) (Chi)

[Studies on chemical constituents of Glycyrrhiza eurycarpa P. C. Li] Liu Q, et al. **Yao Hsueh Hsueh Pao** 1989; 24(7):525–31 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Liriope spicata Lour (Thunb), var. prolifera Y.T. Ma.] Liu W, et al.
Yao Hsueh Hsueh Pao 1989;24(10):749–54 (Eng. Abstr.) (Chi)

[Chemical studies on Aristolochia mollissima V] Lou FC, et al. **Yao Hsueh Hsueh Pao** 1989;24(4):305–7 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Lonicera fulvotomentosa Hsu et S.C. Cheng] Mao Q, et al.
Yao Hsueh Hsueh Pao 1989;24(4):269–74 (Eng. Abstr.) (Chi)

[Studies on new triterpenoids of Tripterygium regelii] Pang GM, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):75–9 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents from the root–sprouts of Agrimonia pilosa Ledeb] Pei YH, et al.
Yao Hsueh Hsueh Pao 1989;24(6):431–7 (Eng. Abstr.) (Chi)

[Studies on the structure of a new isocoumarin glucoside of the root sprouts of Agrimonia pilosa Ledeb] Pei YH, et al. **Yao Hsueh Hsueh Pao** 1989;24(11):837–40 (Eng. Abstr.) (Chi)

[Chemical structure of podocarpamide isolated from Zanthoxylum podocarpum Hemsl] Ren LJ, et al.
Yao Hsueh Hsueh Pao 1989 Jan;24(1):67–70 (Eng. Abstr.) (Chi)

[Studies on the medicinal plants of Magnoliaceae tu–hou–po of Manglietia] Song WZ, et al. **Yao Hsueh Hsueh Pao** 1989; 24(4):295–9 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Aconitum szechenyianum Gay] Sun WJ, et al.
Yao Hsueh Hsueh Pao 1989 Jan;24(1):71–4 (Eng. Abstr.) (Chi)

[Studies on the saponin constituents of Kalopanax septemlobus (Thunb.) koidz] Sun WJ, et al.
Yao Hsueh Hsueh Pao 1990;25(1):29–34 (Eng. Abstr.) (Chi)

[Chemical studies of flower buds of Tussilago farfara L] Wang CD, et al. **Yao Hsueh Hsueh Pao** 1989;24(12):913–6 (Eng. Abstr.) (Chi)

[The structures of yemuoside YM10 and YM12 from Stauntonia chinensis] Wang HB, et al.
Yao Hsueh Hsueh Pao 1989;24(6):444–51 (Eng. Abstr.) (Chi)

[Determination of the active ingredients in Chinese drug wuweizi (Schisandra chinensis) by TLC–densitometry] Wang K, et al. **Yao Hsueh Hsueh Pao** 1990;25(1):49–53 (Eng. Abstr.) (Chi)

[Coetsoidin A, a new diterpenoid from Rabdosia coetsoides C. Y. Wu] Wang XF, et al. **Yao Hsueh Hsueh Pao** 1989; 24(7):522–4 (Eng. Abstr.) (Chi)

[Determination of berberine and palmatine in cortex phellodendron and Chinese patent medicines by HPLC] Wang YM, et al. **Yao Hsueh Hsueh Pao** 1989;24(4):275–9 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Fritillaria in Hubei. X. Isolation and identification of alkaloids from Fritillaria ebeiensis var.purpurea G.D.Yu et P.Li] Wu JZ, et al.
Yao Hsueh Hsueh Pao 1989;24(8):600–5 (Eng. Abstr.) (Chi)

[Structure of pingbeidinoside, an alkaloid isolated from the stems and leaves of Fritillaria ussuriensis Maxim] Xu DM, et al. **Yao Hsueh Hsueh Pao** 1989;24(9):668–72 (Eng. Abstr.) (Chi)

[The structure of versicolactone D] Xue HZ, et al.
Yao Hsueh Hsueh Pao 1989;24(12):917–22 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Aquilaria sinensis(Lour.) Gilg. IV. Isolation and characterization of 2–(2–phenylethyl)chromone derivatives] Yang JS, et al.
Yao Hsueh Hsueh Pao 1989;24(9):678–83 (Eng. Abstr.) (Chi)

[Studies on the chemical constituents of Aquilaria sinensis (Lour) Gilg. III. Elucidation of the structure of isobaimuxinol and isolation and identification of the constituents of lower boiling fraction of the volatile oil] Yang JS, et al. **Yao Hsueh Hsueh Pao** 1989;24(4):264–8 (Eng. Abstr.) (Chi)

[The isolation and structure identification of triptotriterpenic acid·C] Zhang CP, et al. **Yao Hsueh Hsueh Pao** 1989; 24(3):225–8 (Eng. Abstr.) (Chi)

[Quality evaluation of twelve species of Chinese Ephedra (ma huang)] Zhang JS, et al. **Yao Hsueh Hsueh Pao** 1989; 24(11):865–71 (Eng. Abstr.) (Chi)

[Determination of choleretic constituents in Artemisia scoparia Waldst. et Kit. by TLC densitometry] Zhang QW, et al. **Yao Hsueh Hsueh Pao** 1989 Jan;24(1):43–7 (Eng. Abstr.) (Chi)

[Studies on the preparation and evaluation of Kijitsu, the immature citrus fruits. III. Relation between diameter of Kijitsu and synephrine content] Hosoda K, et al.
Yakugaku Zasshi 1990 Jan;110(1):82–4 (Eng. Abstr.) (Jpn)

[Constituents of Berchemia racemosa Sieb. et Zucc.] Kikuchi

M, et al. **Yakugaku Zasshi** 1990 May;110(5):354–7 (Eng. Abstr.) **(Jpn)**

[Studies on the constituents of "Trichosanthes root". IV. Constituents of roots of Trichosanthes multiloba Miq., Trichosanthes miyagii Hay. and Chinese crude drug "karo-kon"] Kitajima J, et al. **Yakugaku Zasshi** 1989 Sep; 109(9):677–9 (Eng. Abstr.) **(Jpn)**

[Centrally acting muscle relaxant effect of phthalides (ligustilide, cnidilide and senkyunolide) obtained from Cnidium officinale Makino] Ozaki Y, et al. **Yakugaku Zasshi** 1989 Jun;109(6):402–6 (Eng. Abstr.) **(Jpn)**

[Extra-weak chemiluminescence of drugs. X. Extra-weak chemiluminescence quenching component of rhubarb] Sato H, et al. **Yakugaku Zasshi** 1990 Jan;110(1):55–8 (Eng. Abstr.) **(Jpn)**

CHEMICAL SYNTHESIS

A simple conversion of artemisinic acid into artemisinin. Roth RJ, et al. **J Nat Prod** 1989 Sep–Oct;52(5):1183–5

HISTORY

[A survey on the medicinal history of Pinellia ternata Breit] Hu SL. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov; 14(11):646–8, 701 (Eng. Abstr.) **(Chi)**

[Research on the history of the medical use of the medicinal plant yinxingcao as jinzhong yinchen and Liujinu] Xie ZW. **Chung Kuo Chung Yao Tsa Chih** 1989 Jun;14(6):327–8, 381 (Eng. Abstr.) **(Chi)**

[A study on the literature on sheng mai powder of past dynasties] Yang YQ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May;14(5):259–61, 270, 317 (Eng. Abstr.) **(Chi)**

ISOLATION & PURIFICATION

The identification of pyrrolizidine alkaloid-containing plants—a study on 20 herbs of the Compositae family. Zhao XL, et al. **Am J Chin Med** 1989;17(1–2):71–8

Isolation, purification, and partial characterization of prunellin, an anti-HIV component from aqueous extracts of Prunella vulgaris. Tabba HD, et al. **Antiviral Res** 1989 Jun–Jul;11(5–6):263–73

Identification and isolation of medicarpin and a substituted benzofuran as potent leukotriene inhibitors in an anti-inflammatory Chinese herb. Miller DK, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Nov; 38(2):137–43

[Cytotoxicity of Corylifoliae fructus. I. Isolation of the effective compound and the cytotoxicity] Kubo M, et al. **Yakugaku Zasshi** 1989 Dec;109(12):926–31 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

[Studies on the solubility rate and pharmacokinetics of traditional Chinese medicinal preparations] Shi SQ. **Chung Kuo Chung Yao Tsa Chih** 1989 Dec;14(12):731–4, 762 (11 ref.) (Eng. Abstr.) **(Chi)**

[Studies on concentration of glycyrrhizin in plasma and its absorption after oral administration of licorice extract and glycyrrhizin] Ozaki Y, et al. **Yakugaku Zasshi** 1990 Jan; 110(1):77–81 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

The effect of dinh lang and (-)deprenyl on the survival rate of male rats. Yen TT, et al. **Acta Physiol Hung** 1990;75 Suppl:301–2

The pharmacological and pathoiogical studies on several hepatic protective crude drugs from Taiwan (II). Chiu HF, et al. **Am J Chin Med** 1989;17(1–2):17–23

The hypotensive action of Desmodium styracifolium and Clematis chinensis. Ho CS, et al. **Am J Chin Med** 1989; 17(3–4):189–202

Neuroendocrine effect of toki-shakuyaku-san on ovulation in rats. Koyama T, et al. **Am J Chin Med** 1989; 17(1–2):29–33

The hypoglycemic effect of the crude drug prescription resources from Taiwan on experimental diabetic-mellitus (II)—the antihyperglycemic effect of tang-niao-tung no. 2 and no. 3. Lin CC, et al. **Am J Chin Med** 1989; 17(1–2):9–15

Effect of traditional herbal medicine, shakuyaku-kanzo-to on total and free serum testosterone levels. Takeuchi T, et al. **Am J Chin Med** 1989;17(1–2):35–44

Modulation of human basophil growth in vitro by xiao-qing-long-tang (syo-seiryu-to), chai-pu-tang (saiboku-to), qing-fei-tang (seihai-to), baicalein and ketotifen. Tanno Y, et al. **Am J Chin Med** 1989; 17(1–2):45–50

The effects of vandellia cordifolia on renal functions and arterial blood pressure. Tsai HY, et al. **Am J Chin Med** 1989;17(3–4):203–10

Hachimijiogan treatment is effective in the management of infertile women with hyperprolactinemia or bromocriptine-resistant hyperprolactinemia. Usuki S, et al. **Am J Chin Med** 1989;17(3–4):225–41

Gastroprotective activity of ginger zingiber officinale rosc., in albino rats. al-Yahya MA, et al. **Am J Chin Med** 1989; 17(1–2):51–6

The herbal medicine tian ma gou teng yen alters the development of high blood pressure in the spontaneously hypertensive rat. Zhang TX, et al. **Am J Chin Med** 1989; 17(3–4):211–9

Effect of a traditional Chinese herbal medicine (san zhuang wan) on the hypothalamus-pituitary-testis axis of the immature rat. Zhang TX, et al. **Am J Chin Med** 1989; 17(3–4):171–7

Effect of motherwort on blood hyperviscosity. Zou QZ, et al. **Am J Chin Med** 1989;17(1–2):65–70

Superoxide scavenging activity of BG-104 before and after sonication—determined by ESR spin trapping method. Pronai L, et al. **Biotherapy** 1990;2(1):63–8

In vitro screening of Chinese medicinal toothpastes: their effects on growth and plaque formation of mutans streptococci. Wu-Yuan CD, et al. **Caries Res** 1990; 24(3):198–202

Scavenging effect of schizandrins on active oxygen radicals. Zhao BL, et al. **Cell Biol Int Rep** 1990 Feb;14(2):99–109

Response of liver to glucocorticoid is altered by administration of Shosaikoto (Kampo medicine). Inoue M, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb;38(2):418–21

Isolation of inhibitors of adenylate cyclase from dan-shen, the root of Salvia miltiorrhiza. Kohda H, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1287–90

Hematological studies on naturally occurring substances. II. Effects of animal crude drugs on blood coagulation and fibrinolysis systems. Wang JD, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug;37(8):2236–8

The effect of scoparone, a coumarin derivative isolated from the Chinese crude drug Artemisiae capillaris flos, on the heart. Yamahara J, et al. **Chem Pharm Bull (Tokyo)** 1989 May;37(5):1297–9

Effect of magnesium lithospermate B on urinary excretion of arachidonate metabolites in rats with renal failure. Yokozawa T, et al. **Chem Pharm Bull (Tokyo)** 1989 Oct; 37(10):2766–9

Antiplatelet action of dehydrokawain derivatives isolated from Alpinia speciosa rhizoma. Teng CM, et al. **Chin J Physiol** 1990;33(1):41–8

Pharmacological actions and clinical use of fructus schizandrae. Liu GT. **Chin Med J [Engl]** 1989 Oct; 102(10):740–9

Antiviral effect of mangiferin and isomangiferin on herpes simplex virus. Zheng MS, et al. **Chin Med J [Engl]** 1990 Feb;103(2):160–5

Effects of juzen-taiho-toh (TJ-48), a traditional Oriental medicine, on hematopoietic recovery from radiation injury in mice. Ohnishi Y, et al. **Exp Hematol** 1990 Jan;18(1):18–22

Effects of jian bu wan—a traditional Chinese medication on behavioral and cardiovascular parameters after acute alcohol intake in normal subjects. Frisk-Holmberg M, et al. **Fundam Clin Pharmacol** 1990;4(1):11–5

Immunopharmacological studies of qingkaining, a Chinese blended medicine: effects on experimental autoimmune uveoretinitis in the rat. Ni M, et al. **Immunol Invest** 1989 Aug;18(7):907–17

Contribution of cytokines to time-dependent augmentation of resistance against Listeria monocytogenes after administration of a traditional Chinese medicine, xiao-chai-hu-tang (Japanese name: shosaiko-to). Kawakita T, et al. **Immunopharmacol Immunotoxicol** 1989; 11(2–3):233–55

Effect of a traditional Chinese herbal medicine ren-shen-yang-rong-tang (Japanese name: ninjin-youei-to) on hematopoietic stem cells in mice. Miura S, et al. **Int J Immunopharmacol** 1989;11(7):771–80

Effect of shosaikoto on plasma catecholamines. Amagaya S, et al. **J Ethnopharmacol** 1989 Oct;26(3):271–6

Effects of shosaikoto, an oriental herbal medicinal mixture, on age-induced amnesia in rats. Amagaya S, et al. **J Ethnopharmacol** 1990 Mar;28(3):349–56

Effects of shosaikoto, an oriental herbal medicinal mixture, on restraint-stressed mice. Amagaya S, et al. **J Ethnopharmacol** 1990 Mar;28(3):357–63

Induction of neutrophil accumulation by the Chinese herbal medicine "ninjin-youei-to". Toda S, et al. **J Ethnopharmacol** 1990 Apr;29(1):105–9

Actions of Chinese herbal medicines keishibukuryo-gan and tougakujyouki-to on the hemolysis and lipid peroxidation of mouse erythrocytes induced by hydrogen peroxide. Toda S, et al. **J Ethnopharmacol** 1989 Nov;27(1–2):221–5

A Chinese traditional medicine, juzentaihoto, inhibits the O2- generation by macrophages. Imamichi T, et al. **J Pharmacobiodyn** 1989 Nov;12(11):693–9

Antinociceptive effects of oriental medicine kei-kyoh-zoh-soh-oh-shin-bu-toh in mice and rats. Kuraishi Y, et al. **J Pharmacobiodyn** 1990 Jan;13(1):49–56

The influence of propranolol (beta-receptor blockade) on bronchial smooth muscle relaxation induced by "yi qi huo xue prescription". Chen XY, et al. **J Tradit Chin Med** 1982 Sep;2(3):183–6

Influence of "artificial cycle by traditional Chinese medicine" on the function of female gonads. Liao DL, et al. **J Tradit Chin Med** 1982 Sep;2(3):195–200

Studies on the pharmacology of Tremella fuciformis. Preliminary research on the fermented solution and polysaccharides of Tremella fuciformis spores. Lin ZB, et al. **J Tradit Chin Med** 1982 Jun;2(2):95–8

The effect of Chinese herbal medicine on mouse hemopoietic cells in diffusion chambers. Xie RF, et al. **J Tradit Chin Med** 1982 Jun;2(2):91–4

Observation of the estrogen-like effect of "follicle-stimulating decoction". Xu JX, et al. **J Tradit Chin Med** 1982 Sep;2(3):179–81

Studies on actions of extract of motherwort. Zhang CF, et al. **J Tradit Chin Med** 1982 Dec;2(4):267–70

The present situation and prospects of researches on the pharmacology of compounded Chinese drugs. Zhou CF, et al. **J Tradit Chin Med** 1989 Sep;9(3):220–9 (14 ref.)

Antitumor activity of an extract of Cordyceps sinensis (Berk.) Sacc. against murine tumor cell lines. Yoshida J, et al. **Jpn J Exp Med** 1989 Aug;59(4):157–61

Chronotropic and inotropic effects of kampo extracts in the canine isolated, blood-perfused heart preparations. Sugiyama A, et al. **Jpn J Pharmacol** 1989 Oct;51(2):239–46

A possible mechanism for the gastric mucosal protection by oren-gedoku-to (OGT), a traditional herbal medicine. Takase H, et al. **Jpn J Pharmacol** 1989 Sep;51(1):17–23

Inhibition of rat liver NAD(P)H:quinone acceptor oxidoreductase (DT-diaphorase) by flavonoids isolated from the Chinese herb scutellariae radix (Huang Qin). Liu XF, et al. **Mol Pharmacol** 1990 Jun;37(6):911–5

The effects of sho-saiko-to-go-keishi-ka-shakuyaku-to (TJ-960) on ischemia-induced changes of brain acetylcholine and monoamine levels in gerbils. Haba K, et al. **Neurochem Res** 1990 May;15(5):487–93

Stage-specific gametocytocidal effect in vitro of the antimalaria drug qinghaosu on Plasmodium falciparum. Kumar N, et al. **Parasitol Res** 1990;76(3):214–8

Characterization of an acidic polysaccharide from the seeds of Malva verticillata stimulating the phagocytic activity of cells of the RES. Gonda R, et al. **Planta Med** 1990 Feb; 56(1):73–6

Chronotropic effect of the methanolic extracts of the plants of the Paris species and steroidal glycosides isolated from P. vietnamensis on spontaneous beating of myocardial cells. Nambu T, et al. **Planta Med** 1989 Dec;55(6):501–5

Immunosuppressive principles of Rehmannia glutinosa var. hueichingensis. Sasaki H, et al. **Planta Med** 1989 Oct; 55(5):458–62

Anti-complementary and hypoglycemic activities of the glycans from the seeds of Malva verticillata. Tomoda M, et al. **Planta Med** 1990 Apr;56(2):168–70

A new platelet aggregation inhibitor from Salvia miltiorrhiza. Wang N, et al. **Planta Med** 1989 Aug;55(4):390–1

Effect of panax ginseng extract on the pharmacological actions of morphine in the rat. Bhargava HN, et al. **Prog Clin Biol Res** 1990;328:489–92

Antimutagenic effects of Chinese medicines. Zuoshu JS, et al. **Prog Clin Biol Res** 1990;340E:329–38

Inhibition of platelet thromboxane formation and phosphoinositides breakdown by osthole from Angelica pubescens. Ko FN, et al. **Thromb Haemost** 1989 Nov 24; 62(3):996–9

The antiatherogenic effects of components isolated from pollen typhae. Zhao J, et al. **Thromb Res** 1990 Mar 15; 57(6):957–66

Further study of pollen typhae's effects on the production of tPA and PGI, by cultured endothelial cells. Zhao J, et al. **Thromb Res** 1989 Dec 15;56(6):677–85

Radix Tripterygium wilfordii—a Chinese herbal medicine with potent immunosuppressive properties. Li XW, et al. **Transplantation** 1990 Jul;50(1):82–6

Effect of extract of Hirudo Medicinalis L. against adherence of calcium oxalate crystals to acid-injured bladder mucosa. Liu GD, et al. **Urol Res** 1989;17(6):381–4

[Effects of coptidis rhizoma and decoction of artemisia rheum gardeniae on the reserve albumin binding capacity in serum of Chinese newborn infants] Yang SH. **Acta Paediatr Sin** 1988 Nov–Dec;29(6):391–6 (Eng. Abstr.) **(Chi)**

[Recent advances in studies on tonics in Chinese herbal medicine in China] Cai ZD. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):508–11 **(Chi)**

[Effects of an ever-young pill on decreased intelligence and symptoms associated with aging] Chen K, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul;9(7):398–401, 387–8 (Eng. Abstr.) **(Chi)**

[Effect of chang chun dan on noradrenaline levels of the brain and plasma in aged rats] Cheng LY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep;9(9):552–3, 517 (Eng. Abstr.) **(Chi)**

[F3, a fractionated extract of Astragalus membranaceus, potentiates lymphokine-activated killer cell cytotoxicity generated by low-dose recombinant interleukin-2] Chu D, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan;10(1):34–6, 5 (Eng. Abstr.) **(Chi)**

[Effect of an essence-restoring decoction on DNA repair capacity] Ding YF, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):647–9, 643 (Eng. Abstr.) **(Chi)**

[Effect of radix Paeoniae rubra 801 on the induction of cardiac and hepatic microsomal carboxylesterases activities in male rats] Du GY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):491–3, 454 (Eng. Abstr.) **(Chi)**

[Regulative effects of qixue injection on rhythmic activities in pacemaker cells of the sinoatrial node] Fang LM, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):488–90, 454 (Eng. Abstr.) **(Chi)**

[Effects of yang-restoring herb medicines on the levels of plasma corticosterone, testosterone and triiodothyronine] Kuang AK, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec;9(12):737–8, 710 (Eng. Abstr.) **(Chi)**

[Effect of buyang huanwu decoction on the antithrombotic

functions of the vessel wall] Li AG, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Sep;9(9):545–7, 517 (Eng. Abstr.) (Chi)

[Experimental studies on the antagonistic effect of re du qing on endotoxin-induced damage of lysosomes and mitochondria] Li MZ, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Jul;9(7):412–5, 389–90 (Eng. Abstr.) (Chi)

[Blood platelets, neoplasm metastasis and anti-metastatic effect of huoxue-huayu drugs] Li XL.
Chung Hsi I Chieh Ho Tsa Chih 1989 Oct;9(10):637–40 (40 ref.) (Chi)

[Progress in pharmacologic research on Scutellaria baicalensis] Li Z. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):698–700 (12 ref.) (Chi)

[Experimental study of the protective action of re-du-qing on H(+)-APT synthase activity of mitochondria in the rabbit] Liang JQ, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Oct;9(10):607–8, 582 (Eng. Abstr.) (Chi)

[Prostaglandins and traditional Chinese medicine] Liang XC.
Chung Hsi I Chieh Ho Tsa Chih 1990 Mar;10(3):185–6, 188 (22 ref.) (Chi)

[Antiviral and interferon-inducing effect of fang-gan mixture] Ma R. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr; 10(4):222–4, 197–8 (Eng. Abstr.) (Chi)

[Pathologic effect of lipid-lowering and vessel-softening medication in adult and aged rats] Ruan SY, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Nov;9(11):672–4, 646 (Eng. Abstr.) (Chi)

[Therapeutic research on kidney-tonifying herbs on the adrenocortical function in the aged] Shen ZY, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Sep;9(9):518–21, 514 (Eng. Abstr.) (Chi)

[Use of amphotericin B-cells to detect inhibitors of cellular cholesterol biosynthesis] Sun XM, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Oct;9(10):604–6, 581–2 (Eng. Abstr.) (Chi)

[Antiplatelet aggregation effect of Andregraphis paniculata] Tan H, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep; 9(9):540–2, 516 (Eng. Abstr.) (Chi)

[Interactions of Western antihypertensive drugs and Chinese drugs] Wang W. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May;10(5):303–4 (Chi)

[Factors influencing in vitro Lymphocyte transformation for screening immunomodulation drugs among crude herbal extracts] Wang X. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr;10(4):236–9, 198 (Eng. Abstr.) (Chi)

[Effect of an extract of Paeonia lactiflora on the blood coagulative and fibrinolytic enzymes] Wang Y, et al.
Chung Hsi I Chieh Ho Tsa Chih 1990 Feb;10(2):101–2, 70 (Eng. Abstr.) (Chi)

[Approaches and methods of experimental research on recipes in traditional Chinese medicine] Wang YZ.
Chung Hsi I Chieh Ho Tsa Chih 1989 Dec;9(12):745–7 (Chi)

[Effects of fu-zheng jie-du decoction and cyclophosphamidum on the production of tumor necrosis factor in mice] Wei Y.
Chung Hsi I Chieh Ho Tsa Chih 1990 Jun;10(6):353–5, 326 (Eng. Abstr.) (Chi)

[Experimental study on the anti-hepatitis B virus effect of the ordinary anti-hepatitis Chinese medicinal herbs] Yang JY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):494–5 (Chi)

[Experimental studies on the relation of the kidney and reproduction] Yu J, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Sep;9(9):548–51, 517 (Eng. Abstr.) (Chi)

[Experimental study and clinical uses of rhubarb] Yue R.
Chung Hsi I Chieh Ho Tsa Chih 1990 May;10(5):310–3 (31 ref.) (Chi)

[Immunomodulatory action of the total saponin of Gynostemma pentaphylla] Zhang C, et al.
Chung Hsi I Chieh Ho Tsa Chih 1990 Feb;10(2):96–8, 69–70 (Eng. Abstr.) (Chi)

[The killing action of a Chinese herbal mixture on human tumor cells in vitro and its effect on cell-cycle] Zhang YJ, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul; 9(7):416–7, 390 (Eng. Abstr.) (Chi)

[Blood circulation and oxygen consumption are important subjects for research on the principle of promoting blood circulation and relieving stasis] Zhao LG.
Chung Hsi I Chieh Ho Tsa Chih 1989 Oct;9(10):624–5 (Eng. Abstr.) (Chi)

[Effect of injections of huoxue huayu on hemodynamics of the canine small intestine] Zhao LG, et al.
Chung Hsi I Chieh Ho Tsa Chih 1989 Dec;9(12):731–3, 709 (Eng. Abstr.) (Chi)

[Experimental study of 472 herbs with antiviral action against the herpes simplex virus] Zheng M.
Chung Hsi I Chieh Ho Tsa Chih 1990 Jan;10(1):39–41, 6 (Eng. Abstr.) (Chi)

[Experimental study of preventing emphysema with elastase inhibiting agents] Zhou SY.
Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih 1990 Apr; 13(2):99–101, 127–8 (Eng. Abstr.) (Chi)

[Interaction of component (E) with tumor cellular DNA] Ma YP. **Chung Hua Chung Liu Tsa Chih** 1989 Mar; 11(2):95–7 (Eng. Abstr.) (Chi)

[Immunoregulatory effect of polysaccharide of Acanthopanax senticosus (PAS). I. Immunological mechanism of PAS against cancer] Xie SS.
Chung Hua Chung Liu Tsa Chih 1989 Sep;11(5):338–40 (Eng. Abstr.) (Chi)

[Pharmacologic study of Curculigo orchioides Gaertn] Chen QS, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct; 14(10):618–20, 640 (Eng. Abstr.) (Chi)

[Anti-inflammatory effect of fructus Ligustri Lucidi] Dai Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jul;14(7):431–3, 448 (Eng. Abstr.) (Chi)

[Analgesic anti-inflammatory effects of moschus bone-setting liquor in local traumatic ecchymosis] Ding M, et al.
Chung Kuo Chung Yao Tsa Chih 1990 Jan;15(1):49–51, 65 (Eng. Abstr.) (Chi)

[Hemodynamic effects of a water soluble extract of Liriope spicata Lour on anesthetized cats] Gao GY, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):552–4, 575 (Eng. Abstr.) (Chi)

[Effect of Rheum tanguticum Maxim ex Balf on cAMP in the central nervous system] Guo CY, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Jun;14(6):370–1, 384 (Eng. Abstr.) (Chi)

[Effects of Apocynum hendersonii (Hook. f.) Woodson on cardiac electric and mechanical activity] Han DY, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Feb;14(2):38–42, 63 (Eng. Abstr.) (Chi)

[Influence of radix Astragali on noise-caused changes in hepatic glycogen content in the rat] Han GZ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Dec;14(12):750–2, 764 (Eng. Abstr.) (Chi)

[Studies on the antiarrhythmic effects of leaves of Dendropanax chevalieri (Vig.) Merr. et Chun] Huang JY, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jun; 14(6):367–70, 384 (Eng. Abstr.) (Chi)

[A preliminary study on the pharmacology of the compound prescription huangqin tang and its component drugs] Huang L, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Feb; 15(2):115–7, 128 (Eng. Abstr.) (Chi)

[Effect of trace elements in traditional Chinese medicine in the light of Chinese medicinal theory] Lin SL, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Jun;14(6):372–5, 384 (29 ref.) (Eng. Abstr.) (Chi)

[Enhancing effect of danggui injection on immunologic function] Lu SJ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov;14(11):685–7, 704 (Eng. Abstr.) (Chi)

[On the relation of five flavors and toxicity of Chinese materia medica] Luo HS, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Dec;14(12):753–5, 764 (Eng. Abstr.) (Chi)

[Action of the drug Herba Epimedii on testosterone of the mouse plasma and its accessory sexual organ before and after processing] Niu R.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):530–2, 574 (Eng. Abstr.) (Chi)

[Pharmacologic effects of an extract of Arillus longan (Lour.) Steud. and Gecko] Nong XX, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Jun;14(6):365–7, 383 (Eng. Abstr.) (Chi)

[The effect of ginseng stem, leaf and rhizoma saponins on the formation of lipid peroxides in rats of various ages] Sun WJ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May; 14(5):300–2, 319–20 (Eng. Abstr.) (Chi)

[Analgesic and sedative effects of the Chinese drug rhizoma Paridis] Wang Q, et al.
Chung Kuo Chung Yao Tsa Chih 1990 Feb;15(2):109–11, 128 (Eng. Abstr.) (Chi)

[Experimental studies on the significance of processing Eucommia ulmoides Oliv.] Wang Q, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Nov;14(11):661–3, 702 (Eng. Abstr.) (Chi)

[Inhibition of aldose reductase from rat lens by some Chinese herbs and their components] Zhang JQ, et al.
Chung Kuo Chung Yao Tsa Chih 1989 Sep;14(9):557–9, 576 (Eng. Abstr.) (Chi)

[Effect of Rhodiola kirilowii (Regel.) Maxim on preventing high altitude reactions. A comparison of cardiopulmonary function in villagers at various altitudes] Zhang ZH, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov; 14(11):687–90, 704 (Eng. Abstr.) (Chi)

[Pharmacologic studies on qiongjiang wine] Zhao L, et al.
Chung Kuo Chung Yao Tsa Chih 1990 Jan;15(1):47–9, 64 (Eng. Abstr.) (Chi)

[Immunoregulatory effects of monomer T4 from Tripterygium wilfordii hook. I. Immunoregulatory effects of T4 on NK activity of mouse splenocytes] Lou D, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Apr;12(2):115–20 (Eng. Abstr.) (Chi)

[Effects of neferine on transmembrane potentials of guinea pig myocardium] Li GR, et al.
Chung Kuo Yao Li Hsueh Pao 1989 Sep;10(5):406–10 (Eng. Abstr.) (Chi)

[Effects of Panax notoginseng saponin Rb1 and Rg1 on myocardial action potential and slow inward current] Xiong ZG, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov; 10(6):520–2 (Eng. Abstr.) (Chi)

[Sedative-hypnotic effect of caulis Polygoni multiflori decoction] Yang J, et al.
Hua Hsi I Ko Ta Hsueh Hsueh Pao 1990 Jun;21(2):175–7 (Eng. Abstr.) (Chi)

[Influence of several Chinese drugs on the glycogen synthesizing function of primary cultured adult rat hepatocytes] Wang HF, et al. **Yao Hsueh Hsueh Pao** 1989; 24(9):653–8 (Eng. Abstr.) (Chi)

[The effect of Ginkgo biloba extract on the stabilization of lysosomes] Wattiaux-de Coninck S, et al. **Phlebologie** 1989 Nov-Dec;42(4):667–72 (Fre)

[Experimental methodology on pharmacological studies on crude drugs] Harada M. **Elsei Shikenjo Hokoku** 1989; (107):1–16 (28 ref.) (Eng. Abstr.) (Jpn)

[Pharmacological study of kako-bushi-matsu: analgesic action and acute toxicity] Murayama M, et al.
Nippon Yakurigaku Zasshi 1989 Nov;94(5):309–17 (Eng. Abstr.) (Jpn)

[Vasodilative effects of indole alkaloids obtained from domestic plants, Uncaria rhynchophylla Miq. and Amsonia elliptica Roem. et Schult] Ozaki Y.
Nippon Yakurigaku Zasshi 1990 Feb;95(2):47–54 (Eng. Abstr.) (Jpn)

[Effect of shakuyaku-extract on electrical stimulation induced contraction of guinea pig ileum] Hayashi M, et al. **Yakugaku Zasshi** 1990 Feb;110(2):139–43 (Eng. Abstr.) (Jpn)

[Phagocytic activity of leaves of Epimedium species on mouse reticuloendotherial system] Iinuma M, et al.
Yakugaku Zasshi 1990 Mar;110(3):179–85 (Eng. Abstr.) (Jpn)

[Anti-tumor promoting activities and inhibitory effects on Epstein-Barr virus activation of Shi-un-kou and its constituents] Konoshima T, et al. **Yakugaku Zasshi** 1989 Nov;109(11):843–6 (Eng. Abstr.) (Jpn)

[Effects of extract from a herbal drug, cnidium rhizome (senkyu), on contraction, heart rates and membrane potentials of isolated guinea pig atria] Nakazawa K, et al.
Yakugaku Zasshi 1989 Sep;109(9):662–71 (Eng. Abstr.) (Jpn)

[Pharmacological studies on puerariae flos. I. The effects of puerariae flos on alcoholic metabolism and spontaneous movement in mice] Niiho Y, et al. **Yakugaku Zasshi** 1989 Jun;109(6):424–31 (Eng. Abstr.) (Jpn)

[Evaluation on equivalence of pharmacological properties between natural crude drugs and their cultured cells based on their components. Accelerative effect of lithospermi radix and inhibitory effect of coptidis rhizoma on proliferation of granulation tissue] Ozaki Y, et al.
Yakugaku Zasshi 1990 Apr;110(4):268–72 (Eng. Abstr.) (Jpn)

[Choleretic effects of methanol extracts obtained from various Chinese traditional medicine] Sasaki T, et al.
Yakugaku Zasshi 1989 Jul;109(7):487–95 (Eng. Abstr.) (Jpn)

[Studies on anti-tumor activity of crude drugs. I. The effects of aqueous extracts of some crude drugs in shortterm screening test. (1)] Sato A. **Yakugaku Zasshi** 1989 Jun; 109(6):407–23 (Eng. Abstr.) (Jpn)

[Studies on anti-tumor activity of crude drugs. II. The effects of aqueous extracts of some crude drugs in shortterm screening test. (2)] Sato A. **Yakugaku Zasshi** 1990 Feb; 110(2):144–54 (Eng. Abstr.) (Jpn)

[Inhibitory effect of various traditional Chinese medicines on rabbit platelet phospholipase A2 in vitro and suppressive effect of tôki-syakuyaku-san on increased aggregability in hypercholesterolemic rabbit ex vivo] Sato T, et al.
Yakugaku Zasshi 1989 Nov;109(11):869–76 (Eng. Abstr.) (Jpn)

POISONING

A digoxin-like immunoreactive substance and atrioventricular block induced by a Chinese medicine "kyushin". Lin CS, et al. **Jpn Circ J** 1989 Sep;53(9):1077–80

[Clinical observation and experimental studies of ocular fundus changes induced by acute poisoning by the radix Aconiti brachypodi] Wang C.
Chung Hsi I Chieh Ho Tsa Chih 1990 Apr;10(4):212–4 (Chi)

STANDARDS

[Studies on the quality of rhizoma Typhonii praeparatum] Zhang JX, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jun;14(6):342–4, 382 (Eng. Abstr.) (Chi)

THERAPEUTIC USE

Efficacy of traditional Chinese herbs on squamous cell carcinoma of the esophagus: histopathologic analysis of 240 cases. Xian MS, et al. **Acta Med Okayama** 1989 Dec; 43(6):345–51

Ovulation following combined therapy with wen-jing-tang and clomiphene citrate therapy in anovulatory women. Yoshimoto Y, et al. **Am J Chin Med** 1989;17(3–4):243–4

Experimental study on the treatment of oral precancerous lesion—short and long term effect of tablet Anticancer II. Zhang KH, et al. **Ann Acad Med Singapore** 1989 Sep; 18(5):528–32

Medicinal protection with Chinese herb-compound against radiation damage. Zhang RJ, et al.
Aviat Space Environ Med 1990 Aug;61(8):729–31

Studies on the anti-tumor-promoting activity of naturally occurring substances. IV. Pd-II [(+)anomalin, (+)praeruptorin B], a seselin-type coumarin, inhibits the promotion of skin tumor formation by 12-O-tetradecanoylphorbol-13-acetate in 7,12-dimethylbenz[a]anthracene-initiated mice. Nishino H, et al. **Carcinogenesis** 1990 Sep;11(9):1557–61

Achievements in clinical research of treating internal diseases with traditional Chinese medicine in recent years. Chen

KJ, et al. **Chin Med J [Engl]** 1989 Oct;102(10):735–9

A prospective, controlled, double-blind, cross-over study of tripterygium wilfodii hook F in treatment of rheumatoid arthritis. Tao XL, et al. **Chin Med J [Engl]** 1989 May; 102(5):327–32

Effect of Astragulas membranaceus on natural killer cell activity and induction of alpha- and gamma-interferon in patients with Coxsackie B viral myocarditis. Yang YZ, et al. **Chin Med J [Engl]** 1990 Apr;103(4):304–7

Treatment of experimental Coxsackie B-3 viral myocarditis with Astragalus membranaceus in mice. Yang YZ, et al. **Chin Med J [Engl]** 1990 Jan;103(1):14–8

Xiaoke tea, a Chinese herbal treatment for diabetes mellitus. Hale PJ, et al. **Diabetic Med** 1989 Nov;6(8):675–6

Alleviation of cigarette-induced intra-uterine growth retardation by a Chinese herbal medicine. Yeung CY, et al. **Early Hum Dev** 1989 Jul;19(4):247–51

A multicenter randomized controlled clinical trial of Shosaiko-to in chronic active hepatitis. Hirayama C, et al. **Gastroenterol Jpn** 1989 Dec;24(6):715–9

Effect of shosaikoto, daisaikoto and sannoshashinto (traditional Japanese and Chinese medicines) on experimental hyperlipidemia in rats. Umeda M, et al. **J Ethnopharmacol** 1989 Oct;26(3):255–69

The use of "thyroid pill" in the treatment of benign nodules of the thyroid. Clinical observation and experimental study. Chen BX, et al. **J Tradit Chin Med** 1982 Dec;2(4):293–8

Method of promoting blood circulation to eliminate stasis in treatment of narcolepsy. Report of 4 cases. Chen JH, et al. **J Tradit Chin Med** 1982 Mar;2(1):67–9

Clinical observation and experimental study on 300 anorectic children treated with stomachic granules. Chen ZR, et al. **J Tradit Chin Med** 1982 Jun;2(2):157–61

Experience in the treatment of clonorchiasis by Professor Deng Tietao. Deng ZY, et al. **J Tradit Chin Med** 1982 Jun;2(2):131–4

The clinical effects of Ganoderma lucidum spore preparations in 10 cases of atrophic myotonia. Fu HD, et al. **J Tradit Chin Med** 1982 Mar;2(1):63–5

TCM treatment of adolescent functional uterine hemorrhage—a clinical report of 105 cases. Gao J. **J Tradit Chin Med** 1990 Jun;10(2):118–21

Induction of ovulation with traditional Chinese medicine. Ge QS, et al. **J Tradit Chin Med** 1982 Sep;2(3):201–6

Observations on the treatment of coronary heart disease by kuo guan qu yu ling. Guan M, et al. **J Tradit Chin Med** 1990 Mar;10(1):49–53

Tongue color and whole blood viscosity in patients of diabetes mellitus after treatment by TCM prescription for replenishing qi, nourishing yin and activating blood circulation. Guo SS, et al. **J Tradit Chin Med** 1989 Dec; 9(4):294–6

Antihyperlipidemic capsules in the treatment of hyperlipidemia and its clinical effect on hemorheology and aggregation of thrombocytes. Hu XC, et al. **J Tradit Chin Med** 1989 Sep;9(3):199–202

Treatment of mucous membrane diseases of the digestive tract with jing jie lian qiao tang—therapeutic effect in 168 cases. Jiang GT, et al. **J Tradit Chin Med** 1989 Dec; 9(4):287–9

The effect of "jiang zhi yi gan tang" in the treatment of fatty liver. Jiang S. **J Tradit Chin Med** 1989 Dec;9(4):275–6

Clinical and experimental studies of chronic gastritis in patients with qi-deficiency of spleen. Jin JS, et al. **J Tradit Chin Med** 1989 Dec;9(4):297–8

Treatment of idiopathic edema with decoction of radix Aucklandiae for promoting flow of QI—analysis of 50 cases. Li H, et al. **J Tradit Chin Med** 1990 Jun;10(2):114–5

Clinical and experimental studies of coronary heart disease treated with yi-qi huo-xue injection. Liao JZ, et al. **J Tradit Chin Med** 1989 Sep;9(3):193–8

Effect of sheng mai san on left ventricular performance in coronary heart disease. Liao JZ, et al. **J Tradit Chin Med** 1982 Mar;2(1):57–62

Application of traditional Chinese drugs in comprehensive treatment of primary liver cancer. Liu F. **J Tradit Chin Med** 1990 Mar;10(1):54–60

Treatment of pain according to syndrome differentiation in 169 cases of liver cancer. Liu LM, et al. **J Tradit Chin Med** 1989 Dec;9(4):277–80

TCM treatment of retinal vein occlusion in 216 cases. Liu X, et al. **J Tradit Chin Med** 1990 Jun;10(2):106–10

Kidney reinforcement regimen in the treatment of bronchial asthma. Endocrinological and immunological studies. Shen ZY, et al. **J Tradit Chin Med** 1982 Jun;2(2):135–40

The regimen of tonifying and warming kidney-yang. Clinical application and experimental studies. Shi SZ, et al. **J Tradit Chin Med** 1982 Dec;2(4):307–16 (39 ref.)

A preliminary report on combined traditional Chinese and Western medicine in sensorineural hearing loss. An analysis of 108 cases. Sun AH. **J Tradit Chin Med** 1982 Sep; 2(3):215–22

Influence of "shuganjieyu" herbs on choleretic function in anesthetized rats. Tian ZS, et al. **J Tradit Chin Med** 1982 Mar;2(1):39–44

A clinical observation of huang lian sheng mai yin in treatment of 86 patients with premature beat. Wang JR. **J Tradit Chin Med** 1989 Sep;9(3):157–8

Clinical and experimental studies on the treatment of numbness and pain in the limbs with ramulus cinnamomi. Wang XH. **J Tradit Chin Med** 1989 Sep;9(3):190–2

Studies of the blood pressure depressing and blood lipids reducing effect of "hou's black powder". Wang YZ, et al. **J Tradit Chin Med** 1989 Dec;9(4):281–2

The treatment of 44 cases of simple obesity with TCM. Weng WL, et al. **J Tradit Chin Med** 1989 Dec;9(4):283–4

Treatment of obesity simplex with kang ling anti-obesity mixture. Xi C, et al. **J Tradit Chin Med** 1990 Jun; 10(2):103–5

47 cases of chronic atrophic gastritis treated with the modality of depressing the upward adverse flow of qi. Xie QS. **J Tradit Chin Med** 1989 Dec;9(4):285–6

Treatment of Ota's nevus and melanosis by xuejiebiandou (resina draconis, semen dolichoris album) decoction. Xu HQ, et al. **J Tradit Chin Med** 1982 Dec;2(4):289–92

Observation on therapeutic effect of clearing heat and dredging stranguria in 103 cases of urinary tract infection. Xu JF, et al. **J Tradit Chin Med** 1989 Sep;9(3):163–5

A preliminary laboratory investigation of "niao shi mixture" in preventing experimental calcium oxalate renal calculus in rats. Xue JZ. **J Tradit Chin Med** 1982 Sep;2(3):187–94

Studies on tabellae indigo naturalis in treatment of psoriasis. Yuan ZZ, et al. **J Tradit Chin Med** 1982 Dec;2(4):306

TCM treatment of male infertility due to seminal abnormality—a clinical observation of 82 cases. Zhai Y, et al. **J Tradit Chin Med** 1990 Mar;10(1):26–9

TCM treatment of acute retinal pigment epithelitis. Zhang B, et al. **J Tradit Chin Med** 1990 Jun;10(2):111–3

Treatment of chronic renal failure with "serial recipes for renal failure": a report of 64 cases. Zhang DN. **J Tradit Chin Med** 1989 Sep;9(3):159–62

Malignant exophthalmos. A clinical observation of 12 cases. Zhang KZ, et al. **J Tradit Chin Med** 1982 Dec;2(4):299–302

111 cases of snake-bite (Agkistrodon acutus guenther) treated by combined traditional Chinese and Western medicine. Zhao JC, et al. **J Tradit Chin Med** 1982 Jun;2(2):119–23

Treatment of vitiligo based on the principle of pacifying liver by resolving stasis and activating blood circulation, plus exorcising "wind". An observation on therapeutic effects in 100 cases. Zhu GD. **J Tradit Chin Med** 1982 Mar; 2(1):71–5

Treatment of 133 cases of chronic prostatitis by seminal consolidation and turbidity excretion. Zhu YK. **J Tradit Chin Med** 1989 Dec;9(4):272–4

Chinese herbs for eczema [letter] **Lancet** 1990 Jul 21; 336(8708):177

Ginkgo biloba extracts [letter] **Lancet** 1990 Feb 24; 335(8687):475–6

Chinese herbs for eczema [letter] Harper JI, et al. **Lancet** 1990 Mar 31;335(8692):795

Isolation of a renal function-facilitating constituent from the Oriental drug, salviae miltiorrhizae radix. Yokozawa T, et al. **Nippon Jinzo Gakkai Shi** 1989 Oct;31(10):1091–8

Ginseng—is there a use in clinical medicine? [letter; comment] Cheng TO. **Postgrad Med J** 1989 Jun;65(764):427 Comment on: Postgrad Med J 1988 Nov;64(757):841–6.

Effects of Chinese medicinal herbs on hemorheology in diabetics. Liang XC, et al. **Proc Chin Acad Med Sci Peking Union Med Coll** 1989; 4(3):135–8

Comparison of antimalarial efficacy of artemisinin (qinghaosu) and arteether against Plasmodium cynomolgi B infection in monkeys. Dutta GP, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):56–7

[Effect of a decoction of six ingredients with rehmannia on the periodontal tissues of animals with kidney diseases] Cai J, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May; 10(5):295–7, 262 (Eng. Abstr.) (Chi)

[Experimental studies on treating anti-anaphylactic asthma with a qingfei bushen decoction] Chen L, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan;10(1):37–8, 6 (Eng. Abstr.) (Chi)

[Therapeutic effect of yupingfeng san and shengmai yin on Coxsackie B viral myocarditis] Chen S, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan;10(1):20–1, 3 (Eng. Abstr.) (Chi)

[Clinical study of 96 cases with chronic hepatitis B treated with jiedu yanggan gao by a double-blind method] Chen Z. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):71–4, 67 (Eng. Abstr.) (Chi)

[Study of huoxue-huayu in treating experimental intraocular hemorrhage by electroretinography] Duan JG, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):609–12, 582 (Eng. Abstr.) (Chi)

[Effects of shengmaiyin and danshen-chuanxiong decoction on preventing cardiopulmonary changes in adults caused by a high-altitude environment] Feng SH, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):650–2, 643 (Eng. Abstr.) (Chi)

[Measurement of MEFV in 66 cases of asthma in the convalescent stage and after treatment with Chinese herbs] Fu JX. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov; 9(11):658–9, 644 (Eng. Abstr.) (Chi)

[Clinical and experimental study of wei-nin granules in the treatment of chronic superficial gastritis] Gao S, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May;10(5):269–71, 259 (Eng. Abstr.) (Chi)

[Treatment of ulcerative colitis by traditional Chinese medicine and dynamic study of immune functions] Guo Q, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug; 9(8):472–4, 452 (Eng. Abstr.) (Chi)

[Effect of the prevention and treatment of atherosclerosis of a mixture of Hawthorn and Motherworn] He G. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jun;10(6):361, 326 (Eng. Abstr.) (Chi)

[Experimental and clinical studies of the effect of dahuang zhechong wan on hyperlipemia] Huang YM, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):589–92, 580 (Eng. Abstr.) (Chi)

[Effects of tiao-zhi-tang on lipoprotein and apolipoprotein in hyperlipemic patients] Jia B, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan;10(1):22–4, 4 (Eng. Abstr.) (Chi)

[Treatment and prevention of asymmetrical intrauterine growth retardation with huoxue huayu prescription] Jiang Y, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar; 10(3):157–9, 132–3 (Eng. Abstr.) (Chi)

[Formation of extrinsic blood thrombosis in 102 cases of thromboangiitis obliterans] Jin X. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):152–4, 132 (Eng. Abstr.) (Chi)

[Immunologic changes in active pulmonary tuberculosis treated with a fuzheng guben pill] Li CY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):663–5, 645 (Eng. Abstr.) (Chi)

[Effects of kuo-guan granule on plasma zinc, copper and erythrocyte GSH-Px (glutathione peroxidase) in patients with angina pectoris] Li Y, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jun;10(6):348–50, 325 (Eng. Abstr.) (Chi)

[Influence of artificial cycles induced by traditional Chinese medicine on the releasing and reserving gonadotropic hormone function of the pituitary gland in the female with secondary amenorrhea] Liao DL. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):458–61, 451 (Eng. Abstr.) (Chi)

[Preventive action of shen mai san on heatstroke in aged rats] Lin FR. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug; 9(8):485–7, 454 (Eng. Abstr.) (Chi)

[Clinical observation and experimental study of the treatment of aplastic anemia by warming and tonifying the spleen and kidney] Lin L, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May;10(5):272–4, 259 (Eng. Abstr.) (Chi)

[Clinical and experimental research on a kidney-tonifying prescription in preventing and treating children's hearing-loss induced by aminoglycoside antibiotic ototoxicity] Lin WS, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul;9(7):402–4, 388 (Eng. Abstr.) (Chi)

[Advances in research on pneumonia in the aged] Liu CQ. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):701–4 (31 ref.) (Chi)

[Advances in studies on traditional Chinese medicine and Western medicine treatment of viral myocarditis] Liu J. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):123–5 (42 ref.) (Chi)

[Preliminary report on various symptoms of chronic hepatitis treated with radix Astragali and its regulative effect on levels of serum hormone] Liu K. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jun;10(6):330–3, 323 (Eng. Abstr.) (Chi)

[Therapeutic effects of borneol-walnut oil in the treatment of purulent otitis media] Liu SL. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):93–5, 69 (Eng. Abstr.) (Chi)

[Effects of Ligusticum wallichii on the plasma and CSF levels of dynorphin A1-13 in rabbits under acute experimental cerebral ischemia] Liu Z, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):160–1, 163, 133 (Eng. Abstr.) (Chi)

[Recent traditional Chinese medicine treatment of chronic bronchitis] Lu S. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Apr;10(4):250–2 (30 ref.) (Chi)

[Effect of nutritional support of extensively burned patients with splenico-stomachictonic] Luo C, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan;10(1):30–1, 5 (Eng. Abstr.) (Chi)

[Clinical and experimental study of the effect of compound five-shen herbal drink in the treatment of acute febrile diseases with damage to the yin and reddened tongue syndrome] Ma BS, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):583–6, 579 (Eng. Abstr.) (Chi)

[Current status of traditional Chinese medicine treatment of primary pigmentary degeneration of the retina] Peng QH. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):512–3 (24 ref.) (Chi)

[Effect of gastritis-granule on 52 cases of chronic gastritis infected with Campylobacter pyloridis] Pu CS. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec;9(12):722–3, 708 (Eng. Abstr.) (Chi)

[Role of a virus in hemorrhagic pancreatitis and the therapeutic effect of rhubarb] Ren S. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):162–3, 133 (Eng. Abstr.) (Chi)

[Progress in research on urologic diseases with traditional Chinese medicine and traditional Chinese medicine and Western medicine treatment] Shi SZ. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep;9(9):571–3 (29 ref.) (Chi)

[Effect of a mixture of Acanthopanax senticosus and Elsholtzia splendens on serum-lipids in patients with hyperlipemia] Shi Z, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):155–6, 132 (Eng. Abstr.) (Chi)

[Comparative clinical study of rheumatoid arthritis treated by triptolide and an ethyl acetate extract of Tripterygium wilfordii] Su D, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):144–6, 131 (Eng. Abstr.) **(Chi)**

[Prevention and treatment of recurrent urinary tract infection with a yishenkang granule] Sun JS. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):469–71, 452 (Eng. Abstr.) **(Chi)**

[General situation of the study of traditional Chinese medicine and Western medicine in bile reflux gastritis] Tian YZ. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec;9(12):757–9 (25 ref.) **(Chi)**

[406 cases of angina pectoris in coronary heart disease treated with saponin of Tribulus terrestris] Wang B, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):85–7, 68 (Eng. Abstr.) **(Chi)**

[A tablet of Tripterygium wilfordii in treating lupus erythematosus] Wang BX, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul;9(7):407–8, 389 (Eng. Abstr.) **(Chi)**

[Relation of changes in plasma TXB2 PGF1alpha and differentiation of signs and symptoms in traditional Chinese medicine in severe icteric hepatitis] Wang C, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):141–3, 130–1 (Eng. Abstr.) **(Chi)**

[Clinical therapy and etiology of viral diarrhea in children] Wang Y. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jan; 10(1):25–6, 4 (Eng. Abstr.) **(Chi)**

[Consciousness-restoring effect of angong-niuhuang pills in craniopathy] Wang YH. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec;9(12):726–7, 708–9 (Eng. Abstr.) **(Chi)**

[Effect of ke-tang-Ling administration on the function of pancreatic islets cells in non-insulin-dependent diabetes mellitus] Wang Z, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):137–40, 130 (Eng. Abstr.) **(Chi)**

[Clinical and laboratory studies of the effect of an antilupus pill on systemic lupus erythematosus] Wang ZY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):465–8, 452 (Eng. Abstr.) **(Chi)**

[Clinical and experimental study on the prescription of jianpi yipi] Wei BH. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep; 9(9):537–9, 516 (Eng. Abstr.) **(Chi)**

[Cerebral infarction in 141 cases treated by traditional Chinese medicine and Western medicine] Wu BQ. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov;9(11):656–7, 644 (Eng. Abstr.) **(Chi)**

[Cold dysmenorrhea with blood stagnation treated with zhuyu wengong decoction] Wu R, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):455–7, 451 (Eng. Abstr.) **(Chi)**

[Statistical analysis of ethnopharmacologic data based on Chinese medicinal plants using a computer (II) Hamamelidae and Caryophyllidae] Xiao PG, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul;9(7):429–32, 390 (Eng. Abstr.) **(Chi)**

[Study of thromboangiitis obliterans treated with "vascular no. 3" using Doppler ultrasound] Yang BH, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):596–8, 581 (Eng. Abstr.) **(Chi)**

[Clinical analysis of 418 patients with Wilson's disease in traditional Chinese medicine and Western medicine therapy] Yang R. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):134–6, 140, 130 (Eng. Abstr.) **(Chi)**

[Early stage of gan-zheng in children treated with sheng-zhang-Ling] Yu Q, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May;10(5):275–7, 259–60 (Eng. Abstr.) **(Chi)**

[Effect of tian-huang-ling granule in the treatment of allergic rhinitis] Yu YJ. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Dec; 9(12):720–1, 708 (Eng. Abstr.) **(Chi)**

[Comparative study of the effect of wei-yan-ning and furazolidone in the treatment of gastritis and gastric ulcer caused by pyloric Campylobacter] Zhang BM, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Oct;9(10):599–600, 581 (Eng. Abstr.) **(Chi)**

[Clinical and experimental observations of jinqiancao gao on preventive and therapeutic effects in cholelithiasis] Zhang GS, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Jul; 9(7):396–7, 387 (Eng. Abstr.) **(Chi)**

[Preliminary study of traditional Chinese medicine treatment of minimal brain dysfunction: analysis of 100 cases] Zhang H, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May; 10(5):278–9, 260 (Eng. Abstr.) **(Chi)**

[Discussion on some aspects of clinical observation on traditional Chinese medicine and Western medicine treatment of viral hepatitis] Zhang Y. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Feb;10(2):116–7 **(Chi)**

[Clinical and experimental studies of yiqi huoxue principles in treating ulcerative colitis] Zhao H, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Sep;9(9):529–32, 515 (Eng. Abstr.) **(Chi)**

[Curative effects of modified xiao-jin pills and chemotherapy after surgery in patients with mid and late phase gastric cancer] Zhou A, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jun;10(6):343–4, 324 (Eng. Abstr.) **(Chi)**

[312 cases of gastric and duodenal ulcer bleeding treated with 3 kinds of alcoholic extract rhubarb tablets] Zhou H, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):150–1, 131–2 (Eng. Abstr.) **(Chi)**

[Treatment of orthostatic dysregulation by the principle of bu-shen yi-qi] Zhou J, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 May;10(5):280–2, 260 (Eng. Abstr.) **(Chi)**

[Effect of radix Paeoniae rubrae extract on mesenteric microcirculation] Chu ZX. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):128–30, 160 (Eng. Abstr.) **(Chi)**

[The effect of vitamin A and Astragalus on the splenic T lymphocyte-CFU of burned mice] Pang SF. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Jun;5(2):122–4, 159 (Eng. Abstr.) **(Chi)**

[Effect of Polygonum cuspidatum No 4 on the enhancement of cardiac function during burn shock] Zhao KS. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):275–8, 318 (Eng. Abstr.) **(Chi)**

[Preliminary therapeutic observation in 82 cases of pulmonary infarction] Yuan CL. **Chung Hua Chieh Ho He Hu Hsi Tsa Chih** 1990 Apr; 13(2):88–90, 127 (Eng. Abstr.) **(Chi)**

[An experimental study of the effects of "sheng mai lotion" on subacute cardiac toxicity induced by adriamycin] Rong YZ. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Dec; 17(6):371–2 **(Chi)**

[Study of the cleansing effect of senna on the intestinal tract] Han RX. **Chung Hua Hu Li Tsa Chih** 1989 May;24(5):273–5 **(Chi)**

[Effect of crystal No. 4 of Polygonum cuspidatum on the restoration of pulse pressure and microcirculatory perfusion during shock] Zhu ZJ. **Chung Hua I Hsueh Tsa Chih** 1989 May;69(5):279–81, 20 (Eng. Abstr.) **(Chi)**

[Darkfield microscopic monitoring of subgingival microorganisms during periodontal therapy] Wu YF. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1990 Jan; 25(1):48–50 **(Chi)**

[Treated experimental premalignant oral lesion transplants in nude mice] Xie JF. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):273–5 **(Chi)**

[Experimental study of a decoction of yiguan jian] Chen YX, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Sep;14(9):554–6, 575–6 (Eng. Abstr.) **(Chi)**

[Effects of the preparation of xiao long ling on experimental prostatic hyperplasia in mice] Deng HZ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jul;14(7):428–31, 448 (Eng. Abstr.) **(Chi)**

[Protective effect of extracts from Aloe vera L. var. chinensis (Haw.) Berg. on experimental hepatic lesions and a primary clinical study on the injection of in patients with hepatitis] Fan YJ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Dec; 14(12):746–8 (Eng. Abstr.) **(Chi)**

[Recent advances in the experimental study and clinical application of Pueraria lobata (Willd) Ohwi] Lai XL, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May;14(5):308–11, 277 (31 ref.) (Eng. Abstr.) **(Chi)**

[Effect of an extract from the cauline of Piper kadsura ohwi on endotoxin-induced hypotension and lung injury in rats] Li SH, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Nov; 14(11):683–5, 704 (Eng. Abstr.) **(Chi)**

[Antiarrhythmic effects of Cordyceps sinensis (Berk.) Sacc.] Mei QB, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Oct; 14(10):616–8, 640 (Eng. Abstr.) **(Chi)**

[The antipyretic, hypothermal and sedative activities of mieyanling] Pan SY, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Dec;14(12):748–50, 763–4 (Eng. Abstr.) **(Chi)**

[Effects of nine prescriptions on fever in rats induced by endotoxin] Tan YZ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May;14(5):306–7, 305, 320 (Eng. Abstr.) **(Chi)**

[Effects of ciwujia (Acanthopanax senticosus Harms) on reperfusion-induced arrhythmia and action potential alterations in the isolated rat heart] Tian BJ, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):493–5, 508, 512 (Eng. Abstr.) **(Chi)**

[Effects of Ziziphus spinosa Hu on serum lipoprotein and experimental atherosclerosis] Wu SX, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Jul;14(7):434–51, 448 (Eng. Abstr.) **(Chi)**

[Protective effects of an ethanolic extract and essential oil of Curcuma kwangsinensis S. against experimental liver lesions in mice] Xiang ZX, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 May;14(5):303–5, 320 (Eng. Abstr.) **(Chi)**

[Short-term curative effect of cultured Cordyceps sinensis (Berk.) Sacc. Mycelia in chronic hepatitis B] Zhou L, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Jan;15(1):53–5, 65 (Eng. Abstr.) **(Chi)**

[Application and mechanism of radix et rhizoma rhei in treating diseases of the digestive system] Zhou Z. **Chung Kuo Chung Yao Tsa Chih** 1989 Aug;14(8):501–3, 512 (45 ref.) (Eng. Abstr.) **(Chi)**

[Prevention of hypoxic pulmonary hypertension with "qi-xue" injection] Zhao L. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Feb; 12(1):51–5 (Eng. Abstr.) **(Chi)**

[The effects of sairei-tô on nephrotoxic serum nephritis in rats—possible effects on intraglomerular cell mediated immunity] Nagata M, et al. **Nippon Jinzo Gakkai Shi** 1989 Jul;31(7):713–21 (Eng. Abstr.) **(Jpn)**

[Antitussive effects of Bakumondô-tô and codeine in bronchitic guinea-pigs] Miyata T, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Oct; 27(10):1157–62 (Eng. Abstr.) **(Jpn)**

[The effect of bakumondo-to on salivary secretion in Sjögren syndrome] Ohno S, et al. **Ryumachi** 1990 Feb;30(1):10–6 (Eng. Abstr.) **(Jpn)**

[Pharmacological study on Aconiti Tuber. I. Effect of water extract from Aconiti Tuber on adjuvant-induced arthritis] Kubo M, et al. **Yakugaku Zasshi** 1990 Jan;110(1):16–26 (Eng. Abstr.) **(Jpn)**

[Anti-ulcer effect of extract from phellodendri cortex] Uchiyama T, et al. **Yakugaku Zasshi** 1989 Sep;109(9):672–6 (Eng. Abstr.) **(Jpn)**

[Studies on chemical protectors against radiation. XXVII. Survival effects of methanol extracts of various Chinese traditional medicines on radiation injury] Wang CM, et al. **Yakugaku Zasshi** 1989 Dec;109(12):949–53 (Eng. Abstr.) **(Jpn)**

[Studies on chemical protectors against radiation. XXIX. Protective effects of methanol extracts of various Chinese traditional medicines on skin injury induced by X-irradiation] Wang CM, et al. **Yakugaku Zasshi** 1990 Mar; 110(3):218–24 (Eng. Abstr.) **(Jpn)**

TOXICITY

Mutagenicity of 30 Chinese herbs and pharmaceuticals. Huang NJ, et al. **Prog Clin Biol Res** 1990;340E:215–24

[Influence of Rhizoma pinelliae on the occurrence of micronucleus in bone marrow polychromatic erythrocytes (PCE) in mice and frequencies of SCE in cultured human lymphocytes] Yang S, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Jun;10(6):356–8, 326 (Eng. Abstr.) **(Chi)**

[Pregnancy and embryotoxicity of Rhizoma pinelliae in rats] Yang SY. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug; 9(8):481–4, 453–4 (Eng. Abstr.) **(Chi)**

[Toxicity experiment on Sargassum, radix Knoxiae, radix Ransul and flos Genkwa against radix Glycyrrhizae in the antagonism of 18 Chinese drugs] Yang ZL, et al. **Chung Kuo Chung Yao Tsa Chih** 1989 Feb;14(2):48–50, 64 (Eng. Abstr.) **(Chi)**

[Cytotoxicity of corylifoliae fructus. II. Cytotoxicity of bakuchiol and the analogues] Iwamura J, et al. **Yakugaku Zasshi** 1989 Dec;109(12):962–5 (Eng. Abstr.) **(Jpn)**

DRUGS, INVESTIGATIONAL

A physician's guide to information available from the FDA about new drug approvals. The ACG Committee on FDA-related matters. American College of Gastroenterology. Hassall TH, et al. **Am J Gastroenterol** 1989 Oct;84(10):1222–6

Computer program for handling investigational oncology drugs. Burnham NL, et al. **Am J Hosp Pharm** 1989 Sep; 46(9):1821–4

Applying drug-use evaluation principles to investigational or unlabeled drug use. Farber MS, et al. **Am J Hosp Pharm** 1990 Mar;47(3):598–9

Parallel track for investigational AIDS drugs [letter] Wong RJ. **Am J Hosp Pharm** 1989 Nov;46(11):2249–50

The investigative process for new drugs. Nicklas RA. **Ann Allergy** 1989 Dec;63(6 Pt 2):598–600 (40 ref.)

FDA approves treatment IND protocol for use of erythropoietin product in AIDS [news] **Clin Pharm** 1989 Sep;8(9):607

FDA advisory committees and the new drug approval process. Kaitin KI, et al. **J Clin Pharmacol** 1989 Oct; 29(10):886–90

New drugs: first time in man. Posvar EL, et al. **J Clin Pharmacol** 1989 Nov;29(11):961–6

Availability and timing of new drugs in Israel: analysis and international comparison. Sax P. **J Clin Pharmacol** 1989 Nov;29(11):967–74

Compassionate release of anti-HIV drugs [letter; comment] **Lancet** 1989 Dec 9;2(8676):1399–400 Comment on: Lancet 1989 Nov 4;2(8671):1079–80.

New rules for new drugs: the challenge of AIDS to the regulatory process. Edgar H, et al. **Milbank Q** 1990;68 Suppl 1:111–42

Compound Q. AIDS drug trial resumes [news] Gershon D. **Nature** 1990 Mar 15;344(6263):183

When is a drug 'safe'? [letter; comment] Miller HI. **Nature** 1990 Apr 19;344(6268):698 Comment on: Nature 1990 Feb 8;343(6258):494.

FDA approves wider use of aerosolized pentamidine to prevent pneumocystis pneumonia [news] **Oncology (Williston Park)** 1989 Mar;3(3):54

Nonclinical pharmacologic and toxicologic considerations for evaluating biologic products. Weissinger J. **Regul Toxicol Pharmacol** 1989 Dec;10(3):255–63

New rules for physicians implement sample drug bill. **Tex Med** 1990 Jun;86(6):58–9

[Non-registered preparations—the way to find information] Westman-Naeser S, et al. **Lakartidningen** 1989 Nov 15; 86(46):3978 **(Swe)**

ADVERSE EFFECTS

[Influence of drug treatment on the sleep-wake cycle. Study methods] François T, et al. **C R Soc Biol (Paris)** 1989; 183(5):394–406 (Eng. Abstr.) **(Fre)**

STANDARDS

Public Health Service proposes policy for parallel-track drug access program [news] **Clin Pharm** 1990 Aug;9(8):583, 588, 598

SUPPLY & DISTRIBUTION

Parallel track expedites access to anti-AIDS drugs [news] **Am Fam Physician** 1990 Jul;42(1):18

Pill hoarding and hypercompliance [letter] Burris JF, et al. **Clin Pharmacol Ther** 1990 Apr;47(4):547

Trials and tribulations of AIDS drug testing [news] Palca J. **Science** 1990 Mar 23;247(4949 Pt 1):1406

THERAPEUTIC USE

The AIDS epidemic and clinical trials. Young FE. **Acad Med** 1989 Nov;64(11):660-1

N of 1 randomized trials for investigating new drugs. Guyatt GH, et al. **Controlled Clin Trials** 1990 Apr;11(2):88-100

Treatment of acute colonic pseudoobstruction (Ogilvie's syndrome) with cisapride. MacColl C, et al. **Gastroenterology** 1990 Mar;98(3):773-6

Use of investigational drugs as initial therapy for childhood solid tumors. Meyer WH, et al. **Hematol Bluttransfus** 1989; 32:141-8

Phase II trial of ICRF-187 in patients with acquired immune deficiency related Kaposi's sarcoma (AIDS-KS). Chachoua A, et al. **Invest New Drugs** 1989 Nov;7(4):327-31

Phase II study of esorubicin (4'-deoxydoxorubicin) in advanced epithelial carcinoma of the ovary: a Gynecologic Oncology Group study. McGuire WP, et al. **Invest New Drugs** 1989 Nov;7(4):333-6

Assessment of N-methylformamide (NMF) administered orally on a three times weekly schedule: a phase I study. Rowinsky EK, et al. **Invest New Drugs** 1989 Nov; 7(4):317-25

A phase II clinical trial of diaziquone (AZQ) in the treatment of patients with recurrent adenocarcinoma and adenosquamous carcinoma of the cervix. A Gynecologic Oncology Group study. Slayton RE, et al. **Invest New Drugs** 1989 Nov;7(4):337-40

Phase II study of ifosfamide and mesna in patients with previously-treated carcinoma of the cervix. A Gynecologic Oncology Group study. Sutton GP, et al. **Invest New Drugs** 1989 Nov;7(4):341-3

Hydrazine sulfate influence on nutritional status and survival in non-small-cell lung cancer. Chlebowski RT, et al. **J Clin Oncol** 1990 Jan;8(1):9-15

Evaluation of new drugs in untreated patients with small-cell lung cancer: its time has come [comment] Ettinger DS. **J Clin Oncol** 1990 Mar;8(3):374-7 Comment on: J Clin Oncol 1990 Mar;8(3):385-9. Comment on: J Clin Oncol 1990 Mar;8(3):390-5.

Phase II study of amonafide: results of treatment and lessons learned from the study of an investigational agent in previously untreated patients with extensive small-cell lung cancer [see comments] Evans WK, et al. **J Clin Oncol** 1990 Mar;8(3):390-5 Comment in: J Clin Oncol 1990 Mar;8(3):374-7.

FDA regulations provide broader access to unapproved drugs. Shulman SR, et al. **J Clin Pharmacol** 1990 Jul; 30(7):585-7

Are health insurers denying patients quality care? [news] [published erratum appears in J Natl Cancer Inst 1990 Feb 7;82(3):182] Antoine F. **J Natl Cancer Inst** 1989 Dec 6; 81(23):1766-8

Insurance coverage for investigational therapy [letter] Aronson FR, et al. **J Natl Cancer Inst** 1990 Sep 5; 82(17):1434

Impact of third-party reimbursement on cancer clinical investigation: a consensus statement coordinated by the National Cancer Institute [letter] McCabe M, et al. **J Natl Cancer Inst** 1989 Oct 18;81(20):1585-6

Regulatory hierarchies. Oldham RK. **Mol Biother** 1988; 1(1):3-6

Row over controversial new AIDS drug [news] [see comments] Buderi R. **Nature** 1989 Sep 28;341(6240):267 Comment in: Nature 1990 Jan 25;343(6256):304.

DRUGS, NON-PRESCRIPTION

The OTC drug approval process. The ACG Committee on FDA-Related Matters. American College of Gastroenterology. Fredd SB. **Am J Gastroenterol** 1990 Jan; 85(1):12-4

Alcohol and H2 receptor antagonists: over the counter, under the table? Holt S. **Am J Gastroenterol** 1990 May;85(5):516-7 (10 ref.)

Pharmacists' evaluations of the nonprescription availability of metaproterenol, cimetidine, ibuprofen, and nystatin. Madhavan S, et al. **Am J Hosp Pharm** 1989 Dec; 46(12):2486-92

Over-the-counter antidiarrheal medications used for the self-treatment of acute nonspecific diarrhea. Dukes GE. **Am J Med** 1990 Jun 20;88(6A):24S-26S

Nonprescription cough and cold remedies [letter] Rathbun FJ. **Can Med Assoc J** 1990 Apr 15;142(8):801

FDA proposes banning 258 nonprescription drug ingredients [news] **Clin Pharm** 1990 Aug;9(8):598

NSAIDs: is over-the-counter the best? [letter] Agrawal N. **J Am Geriatr Soc** 1990 Aug;38(8):956

Purchase of antibiotics without prescription in Manila, the Philippines. Inappropriate choices and doses. Lansang MA, et al. **J Clin Epidemiol** 1990;43(1):61-7

The risks and benefits of an Rx-to-OTC switch. The case of over-the-counter H2-blockers. Oster G, et al. **Med Care** 1990 Sep;28(9):834-52

New England's patent medicines [editorial] Aronson SM. **R I Med J** 1990 Apr;73(4):137-9

No alcohol, but wine is permitted: a survey of obstetric units in Scotland. McGarva K, et al. **Scott Med J** 1989 Aug; 34(4):484-9

[Licit and illicit drug consumption in the school environment. Results of a cross-sectional epidemiologic survey carried out among 663 high school students in Le Havre] Bourderont D, et al. **Arch Fr Pediatr** 1989 Oct;46(8):617-21 (Eng. Abstr.) (Fre)

ADMINISTRATION & DOSAGE

OTC counseling for the pediatric patient: an opportunity for pharmacist involvement. Nykamp D, et al. **Am Pharm** 1990 May;NS30(5):38-46

ADVERSE EFFECTS

Phenylpropanolamine [letter; comment] **Am Fam Physician** 1990 Feb;41(2):429-32, 437-40, 445-51 Comment on: Am Fam Physician 1989 Apr;39(4):201-6.

Psychoactive abuse potential of Robitussin-DM [letter] Helfer J, et al. **Am J Psychiatry** 1990 May;147(5):672-3

Visual disturbances associated with over-the-counter ibuprofen in three patients. Nicastro NJ. **Ann Ophthalmol** 1989 Dec;21(12):447-50

Organic affective psychosis associated with the routine use of non-prescription cold preparations. Brown TM, et al. **Br J Psychiatry** 1990 Apr;156:572-5

Corn cures can damage your feet: an important lesson for diabetic patients. Foster A, et al. **Diabetic Med** 1989 Dec; 6(9):818-9

Over-the-counter drugs. The issues. Cranz H. **Drug Saf** 1990; 5 Suppl 1:120-5 (14 ref.)

Adverse drug reaction reports benefit veterinary medicine [news] Gloyd JS. **J Am Vet Med Assoc** 1989 Dec 1; 195(11):1481

MAOIs, OTC drugs, and hypertensive crisis [letter; comment] Magurno JA, et al. **J Clin Psychiatry** 1990 May; 51(5):212-3 Comment on: J Clin Psychiatry 1989 Feb;50(2):64-5.

Physicians advise caution in use of over-the-counter medications. Witherspoon T. **Occup Health Saf** 1990 Apr; 59(4):71

Caffeine and other prescriptions for patients with glaucoma [editorial] Lichter RR. **Ophthalmology** 1990 Aug; 97(8):965-6

Medical quackery in Rhode Island: the perspective of state and federal drug control agencies. Fairfield PB, et al. **R I Med J** 1990 Apr;73(4):145-7

Quackery and the elderly. Hollmann PA. **R I Med J** 1990 Apr;73(4):149-51

L-tryptophan puzzle takes new twist [news] Roberts L. **Science** 1990 Aug 31;249(4972):988

[Vaginal discharge--hazardous self-care using over-the-counter drugs] Löwing C, et al. **Lakartidningen** 1990 Feb 14;87(7):456 (Swe)

ANALYSIS

Screening of solid commercial pharmaceuticals using ion mobility spectrometry. Eiceman GA, et al. **Anal Chem** 1990 Jul 15;62(14):1374-9

HISTORY

From the museum. **Indiana Med** 1990 May;83(5):318

An early historical perspective on the FDA's regulation of OTC drugs. Bruch MK, et al. **Infect Control Hosp Epidemiol** 1989 Nov;10(11):527-8

Radithor and the era of mild radium therapy. Macklis RM. **JAMA** 1990 Aug 1;264(5):614-8

POISONING

The radiotoxicology of Radithor. Analysis of an early case of iatrogenic poisoning by a radioactive patent medicine. Macklis RM, et al. **JAMA** 1990 Aug 1;264(5):619-21

Toxicoses from over-the-counter human drugs. Papich MG. **Vet Clin North Am Small Anim Pract** 1990 Mar; 20(2):431-51 (27 ref.)

SUPPLY & DISTRIBUTION

Medications obtained in Mexico by patients in southern New Mexico. Tabet SR, et al. **South Med J** 1990 Mar;83(3):271-3

THERAPEUTIC USE

A randomized, open-label comparison of nonprescription loperamide and attapulgite in the symptomatic treatment of acute diarrhea. DuPont HL, et al. **Am J Med** 1990 Jun 20;88(6A):20S-23S

Comparative efficacy of loperamide hydrochloride and bismuth subsalicylate in the management of acute diarrhea. DuPont HL, et al. **Am J Med** 1990 Jun 20;88(6A):15S-19S

Safety and efficacy of loperamide. Ericsson CD, et al. **Am J Med** 1990 Jun 20;88(6A):10S-14S (9 ref.)

Over-the-counter dentifrices in the treatment of tooth hypersensitivity. Review of clinical studies. Kanapka JA. **Dent Clin North Am** 1990 Jul;34(3):545-60 (60 ref.)

The contemporary crisis in military medicine [letter] Lessing M. **Milit Med** 1990 Apr;155(4):A18

Unconventional remedies used for patients with juvenile arthritis. Southwood TR, et al. **Pediatrics** 1990 Feb; 85(2):150-4

DRUGS OF ABUSE see STREET DRUGS

DRUSEN, RETINAL see RETINAL DRUSEN

DRY EYE SYNDROMES

COMPLICATIONS

Is the dry eye contact lens wearer at risk? Not usually. Finnemore VM. **Cornea** 1990;9 Suppl 1:S51-3; discussion S54 (7 ref.)

Is the dry eye contact lens wearer at risk? Yes. Lemp MA. **Cornea** 1990;9 Suppl 1:S48-50; discussion S54 (10 ref.)

DRUG THERAPY

Hazards of unit dose artificial tear preparations [letter] Loeffler M, et al. **Arch Ophthalmol** 1990 May;108(5):639-40

Is there a better "comfort drop"? Caffery BE, et al. **J Am Optom Assoc** 1990 Mar;61(3):178-82

Therapy of corneal erosions and 'dry eye' with Solcoseryl and Vitasic eye drops. Krannig HM, et al. **Ophthalmologica** 1989;199(2-3):100-5

What is really new and where do we go from here for dry and irritated eyes? Doughty M. **Optom Vis Sci** 1990 Jul; 67(7):567-71

EPIDEMIOLOGY

Dry eye syndrome in Pakistani community. Jehangir S. **JPMA** 1990 Mar;40(3):66-7

ETIOLOGY

Dry eye syndrome in long-term follow-up of bone marrow transplanted patients. Calissendorff B, et al. **Bone Marrow Transplant** 1989 Nov;4(6):675-8

The forgotten cause of sicca complex; sarcoidosis. Drosos AA, et al. **J Rheumatol** 1989 Dec;16(12):1548-51

Soft lens lubricants and prelens tear film stability. Golding TR, et al. **Optom Vis Sci** 1990 Jun;67(6):461-5

IMMUNOLOGY

[The practice of electrophoresis of lacrimal proteins in routine ophthalmology] Lalangue JC, et al. **Ophtalmologie** 1989 Jun-Aug;3(3):211-3 (Eng. Abstr.) (Fre)

PATHOLOGY

Mucus alteration and eye dryness. A possible relationship. Versura P, et al. **Acta Ophthalmol (Copenh)** 1989 Aug; 67(4):455-64

[The dry eye in kidney transplant patients] Strempel I, et al. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):141-4 (Eng. Abstr.) (Ger)

THERAPY

Soluble collagen disks for the treatment of dry eye syndrome. Shaker GJ, et al. **CLAO J** 1989 Oct-Dec;15(4):298-304

DRY ICE

Glass shrapnel injuries to children resulting from "dry ice bomb" explosions: a report of three cases. Gorrin NR, et al. **J Pediatr Surg** 1990 Mar;25(3):296

DRY SOCKET

see related TOOTH EXTRACTION

EPIDEMIOLOGY

Frequency of alveolar osteitis (dry socket) at Kenyatta National Hospital Dental Outpatient Clinic--a retrospective study. Wagaiyu EG, et al. **East Afr Med J** 1989 Oct;66(10):658-62

[Seasonality and circadian rhythm of the occurrence of alveolar hemorrhage and alveolitis] Mingalov GG, et al. **Stomatologiia (Mosk)** 1989 Jul-Aug;68(4):77 (Rus)

ETIOLOGY

The aetiology of dry socket: a review. Awang MN. **Int Dent J** 1989 Dec;39(4):236-40 (76 ref.)

True and nonspecific alveolitis sicca dolorosa related to operative removal of mandibular third molars. Oikarinen K. **Proc Finn Dent Soc** 1989;85(6):435-40

PREVENTION & CONTROL

Effects of a chlorhexidine gluconate oral rinse on the incidence of alveolar osteitis in mandibular third molar surgery. Berwick JE, et al. **J Oral Maxillofac Surg** 1990 May;48(5):444-8; discussion 449

DSIP see DELTA SLEEP-INDUCING PEPTIDE

DTIC see DACARBAZINE

DTP VACCINE see DIPHTHERIA-TETANUS-PERTUSSIS VACCINE

DTPA

Predictive value of quantitative cisternography in normal pressure hydrocephalus. Larsson A, et al. **Acta Neurol Scand** 1990 Apr;81(4):327–32

Gd-DTPA-enhanced MR images: accentuation of vascular pulsation artifacts and correction by using gradient-moment nulling (MAST). Richardson DN, et al. **AJNR** 1990 Jan–Feb;11(1):209–10

The effect of lipid composition on the relaxivity of Gd-DTPA entrapped in lipid vesicles of defined size. Tilcock C, et al. **Biochim Biophys Acta** 1990 Feb 28; 1022(2):181–6

Reaction of hydroxyl radicals with the ferrous and ferric iron chelates of diethylenetriamine-N,N,N',N'',N''-pentaacetate. Rahhal S, et al. **Free Radic Res Commun** 1989; 6(6):369–77

Physico-chemical study of the radiopharmaceuticals 99mTc-DMSA, 99mTc-EDTA and 99mTc-DTPA interaction with plasmatic proteins. Garcia Domenech R, et al. **Int J Rad Appl Instrum [A]** 1989;40(6):536–8

Development and characterization of monoclonal antibodies with specificity for metallic radioisotope chelators linked to antibodies and other proteins. Gillette RW, et al. **J Immunol Methods** 1989 Nov 30;124(2):277–82

Reduction of background activities by introduction of a diester linkage between antibody and a chelate in radioimmunodetection of tumor. Paik CH, et al. **J Nucl Med** 1989 Oct;30(10):1693–701

A new radiochemical method to determine the stability constants of metal chelates attached to a protein. Subramanian KM, et al. **J Nucl Med** 1990 Apr;31(4):480–8

Gadolinium-DTPA-enhanced magnetic resonance scanning in cerebellopontine angle tumors. Wayman JW, et al. **Laryngoscope** 1989 Nov;99(11):1167–70

Proton relaxation enhancement of albumin, immunoglobulin G, and fibrinogen labeled with Gd-DTPA. Paajanen H, et al. **Magn Reson Med** 1990 Jan;13(1):38–43

Gd-DTPA enhanced MR imaging in intracranial tuberculosis. Chang KH, et al. **Neuroradiology** 1990; 32(1):19–25

Gadolinium-DTPA-enhanced MR imaging in the diagnosis of spinal epidural haematoma. Report of a case. Crisi G, et al. **Neuroradiology** 1990;32(1):64–6

Neuroradiologic findings in leptomeningeal carcinomatosis: the value interest of gadolinium-enhanced MRI. Rodesch G, et al. **Neuroradiology** 1990;32(1):26–32

Pseudolayering of Gd-DTPA in the urinary bladder. Elster AD, et al. **Radiology** 1990 Feb;174(2):379–81

ADMINISTRATION & DOSAGE

Hemodynamic effects of Gd-DTPA administered via rapid bolus or slow infusion: a study in dogs. Sullivan ME, et al. **AJNR** 1990 May;11(3):537–40

Biodistribution and clearance of liposomal gadolinium-DTPA. Unger E, et al. **Invest Radiol** 1990 Jun; 25(6):638–44

Uptake of indium-111 in the liver of mice following administration of indium-111-DTPA-labeled monoclonal antibodies: influence of labeling parameters, physiologic parameters, and antibody dose. Schuhmacher J, et al. **J Nucl Med** 1990 Jun;31(6):1084–93

[Effectiveness of the action of liposomal pentacin preparation in acute cadmium chloride poisoning in experimental animals] Muzia GI, et al. **Gig Tr Prof Zabol** 1989;(9):55–6 **(Rus)**

ADVERSE EFFECTS

Severe anaphylactoid reaction to Gd-DTPA [letter] Lufkin RB. **Radiology** 1990 Sep;176(3):879

ANALYSIS

Indirect spectrophotometric determination of BIDA, DISIDA, DTPA and MDP in labelled compounds. van der Walt TN, et al. **Int J Rad Appl Instrum [A]** 1989; 40(6):525–9

CHEMICAL SYNTHESIS

Conjugation of a monoclonal antibody with a DTPA modified random copolymer of hydroxyethyl methylacrylate and methyl methacrylate. Comeau RD, et al. **Int J Rad Appl Instrum [B]** 1990;17(3):321–9

DIAGNOSTIC USE

Gadolinium-DTPA enhancement of soft tissue tumors in magnetic resonance imaging. Herrlin K, et al. **Acta Radiol** 1990 May;31(3):233–6

Gd-DTPA-enhanced MR imaging of cochlear schwannoma. Brogan M, et al. **AJNR** 1990 Mar–Apr;11(2):407–8

Gd-DTPA enhancement in CNS extramedullary hematopoiesis. Buetow PC, et al. **AJNR** 1990 Mar–Apr; 11(2):411–2

Gd-DTPA-enhanced MR imaging of the brain in patients with meningitis: comparison with CT. Chang KH, et al. **AJNR** 1990 Jan–Feb;11(1):69–76

MR imaging of Sturge-Weber syndrome: role of gadopentetate dimeglumine and gradient-echo techniques. Elster AD, et al. **AJNR** 1990 Jul–Aug;11(4):685–9

MR imaging of optic nerve lesions: value of gadopentetate dimeglumine and fat-suppression technique. Hendrix LE, et al. **AJNR** 1990 Jul–Aug;11(4):749–54

Benign lumbar arachnoiditis: MR imaging with gadopentetate dimeglumine. Johnson CE, et al. **AJNR** 1990 Jul–Aug; 11(4):763–70

Glioblastoma multiforme: MR imaging at 1.5 and 9.4 T after injection of polylysine-DTPA-Gd in rats. Kornguth S, et al. **AJNR** 1990 Mar–Apr;11(2):313–8

Diffusion-weighted MR imaging of acute stroke: correlation with T2-weighted and magnetic susceptibility-enhanced MR imaging in cats. Moseley ME, et al. **AJNR** 1990 May; 11(3):423–9

Gd-DTPA-enhanced MR imaging of leptomeningeal spread of primary intracranial CNS tumor in children. Rippe DJ, et al. **AJNR** 1990 Mar–Apr;11(2):329–32

Gadopentetate-dimeglumine-enhanced MR imaging of gliomatosis cerebri: appearance mimicking leptomeningeal tumor dissemination. Rippe DJ, et al. **AJNR** 1990 Jul–Aug; 11(4):800–1

Recurrent medulloblastoma: frequency of tumor enhancement on Gd-DTPA MR imaging. Rollins N, et al. **AJNR** 1990 May;11(3):583–7

Assessment of extradural degenerative disease with Gd-DTPA-enhanced MR imaging: correlation with surgical and pathologic findings. Ross JS, et al. **AJNR** 1989 Nov–Dec;10(6):1243–9

MR imaging of the postoperative lumbar spine: assessment with gadopentetate dimeglumine. Ross JS, et al. **AJNR** 1990 Jul–Aug;11(4):771–6

Tears of the anulus fibrosus: assessment with Gd-DTPA-enhanced MR imaging. Ross JS, et al. **AJNR** 1989 Nov–Dec;10(6):1251–4

Contrast-enhanced MR imaging of the facial nerve in 11 patients with Bell's palsy. Tien R, et al. **AJNR** 1990 Jul–Aug;11(4):735–41

Herpes trigeminal neuritis and rhombencephalitis on Gd-DTPA-enhanced MR imaging. Tien RD, et al. **AJNR** 1990 Mar–Apr;11(2):413–4

Tumors of the nasopharynx and adjacent areas: MR imaging with Gd-DTPA. Vogl T, et al. **AJNR** 1990 Jan–Feb; 11(1):187–94

Gd-DTPA-enhanced MR imaging of the brain in patients with meningitis: comparison with CT. Chang KH, et al. **AJR Am J Roentgenol** 1990 Apr;154(4):809–16

MR imaging of optic nerve lesions: value of gadopentetate dimeglumine and fat-suppression technique. Hendrix LE, et al. **AJR Am J Roentgenol** 1990 Oct;155(4):849–54

Benign lumbar arachnoiditis: MR imaging with gadopentetate dimeglumine. Johnson CE, et al. **AJR Am J Roentgenol** 1990 Oct;155(4):873–80

Recurrent medulloblastoma: frequency of tumor enhancement on Gd-DTPA MR imaging. Rollins N, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):153–7

Assessment of extradural degenerative disease with Gd-DTPA-enhanced MR imaging: correlation with surgical and pathologic findings. Ross JS, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):151–7

MR imaging of the postoperative lumbar spine: assessment with gadopentetate dimeglumine. Ross JS, et al. **AJR Am J Roentgenol** 1990 Oct;155(4):867–72

Tears of the anulus fibrosus: assessment with Gd-DTPA-enhanced MR imaging. Ross JS, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):159–62

Dynamic spin-echo imaging with Gd-DTPA: value in the differentiation of hepatic tumors. Van Beers B, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):515–9

Tumors of the nasopharynx and adjacent areas: MR imaging with Gd-DTPA. Vogl T, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):585–92

Value of gadolinium-diethylene-triamine pentaacetic acid dynamics in magnetic resonance imaging of acute myocardial infarction with occluded and reperfused coronary arteries after thrombolysis. Van Rossum AC, et al. **Am J Cardiol** 1990 Apr 1;65(13):845–51

Factors affecting the Gates' measurement of glomerular filtration rate. Awdeh M, et al. **Am J Physiol Imaging** 1990; 5(1):36–41

Lung function declines in patients with pulmonary sarcoidosis and increased respiratory epithelial permeability to 99mTc-DTPA. Chinet T, et al. **Am Rev Respir Dis** 1990 Feb;141(2):445–9

Diagnostic significance of gadolinium-DTPA (diethylenetriamine penta-acetic acid) enhanced magnetic resonance imaging in thrombolytic treatment for acute myocardial infarction: its potential in assessing reperfusion. van der Wall EE, et al. **Br Heart J** 1990 Jan;63(1):12–7

Comparison of spin echo T1-weighted and FLASH 90 degrees gadolinium-enhanced magnetic resonance imaging in the detection of cerebral metastases. Cherryman G, et al. **Br J Radiol** 1990 Sep;63(753):712–5

Gadolinium-enhanced magnetic resonance imaging of spinal tumours. Rothwell CI, et al. **Br J Radiol** 1989 Dec; 62(744):1067–74

99mTc DTPA diuretic renography in the evaluation of surgery in chronic schistosomal and non-schistosomal obstructive uropathy. Bahar RH, et al. **Br J Urol** 1990 Aug; 66(2):137–43

Duration and selectivity of blood-brain barrier breakdown in chronic relapsing experimental allergic encephalomyelitis studied by gadolinium-DTPA and protein markers. Hawkins CP, et al. **Brain** 1990 Apr;113 (Pt 2):365–78

A magnetic resonance imaging contrast agent differentiates between the vascular properties of fetal striatal tissue transplants and gliomas in rat brain in vivo. Norman AB, et al. **Brain Res** 1989 Nov 27;503(1):156–9

Tc-99m DTPA uptake in Paget's disease of the left ilium. Larcos G, et al. **Clin Nucl Med** 1990 Jan;15(1):22–4

Active bleeding after renal transplantation diagnosed by Tc-99m DTPA scanning. Park HM, et al. **Clin Nucl Med** 1990 Jul;15(7):519–20

Indium-111 DTPA flow study to evaluate surgically implanted drug pump delivery system. Rosenson AS, et al. **Clin Nucl Med** 1990 Mar;15(3):154–6

Utility of Tc-99m DTPA aerosol inhalation scans following perfusion lung scans in the diagnosis of pulmonary embolism. Selby JB, et al. **Clin Nucl Med** 1990 Mar; 15(3):143–9

Comparison of Tc-99m MAG3 and Tc-99m DTPA in renal transplant patients with impaired renal function. Taylor A Jr, et al. **Clin Nucl Med** 1990 Jun;15(6):371–8

Pulmonary clearance of inhaled [99Tcm]DTPA: effects of ventilation pattern. Evander E, et al. **Clin Physiol** 1990 Mar;10(2):189–99

Gadopentetate dimeglumine enhanced MRI in an anephric patient on dialysis. Choyke PL, et al. **Clin Radiol** 1990 Jun; 41(6):430–2

Magnetic resonance imaging with gadolinium-DTPA enhancement in the differentiation of benign from neoplastic cord cavitation. Clarke CE, et al. **Clin Radiol** 1990 Mar;41(3):214–6

Gadolinium-enhanced MR imaging in the management of a midline cerebral dysgerminoma. Hawes DR, et al. **Comput Med Imaging Graph** 1989 Nov–Dec;13(6):463–8

Intestinal permeability in gastrointestinal disorders. Use of oral [99mTc]DTPA. Resnick RH, et al. **Dig Dis Sci** 1990 Feb;35(2):205–11

Transplant renography: 99m-Tc-DTPA versus 99m-Tc-MAG3. A preliminary note. Fraile M, et al. **Eur J Nucl Med** 1989;15(12):776–9

Mismatch between 99mTc-DTPA aerosol and 81mKr lung ventilation scintigraphy: a pitfall of radionuclide imaging. Hoshi H, et al. **Eur J Nucl Med** 1990;16(2):121–3

Investigation of renovascular hypertension with 99mTC-DTPA dynamic renal scanning and digital subtraction angiography. Stavraka-Kakavakis A, et al. **Eur J Radiol** 1989 Nov;9(4):231–5

Gadolinium-enhanced magnetic resonance imaging in acute myocardial infarction. van Dijkman PR, et al. **Eur J Radiol** 1990 Jul–Aug;11(1):1–9

Improved detection of acute myocardial infarction by magnetic resonance imaging using gadolinium-DTPA. van Dijkman PR, et al. **Int J Card Imaging** 1989;5(1):1–8

Studies on the metabolic fate of 111In-labeled antibodies. Himmelsbach M, et al. **Int J Rad Appl Instrum [B]** 1989; 16(8):839–45

Interposition of different chemical linkages between antibody and 111In-DTPA to accelerate clearance from non-target organs and blood. Paik CH, et al. **Int J Rad Appl Instrum [B]** 1989;16(5):475–81

Measurement of renal function with iohexol. A comparison of iohexol, 99mTc-DTPA, and 51Cr-EDTA clearance. Effersöe H, et al. **Invest Radiol** 1990 Jul;25(7):778–82

A pharmacokinetic and MRI study of unilamellar gadolinium-, manganese-, and iron-DTPA-stearate liposomes as organ-specific contrast agents. Schwendener RA, et al. **Invest Radiol** 1990 Aug;25(8):922–32

Intradural spinal metastases in pediatric patients with primary intracranial neoplasms: Gd-DTPA enhanced MR vs CT myelography. Blews DE, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):730–5

Inferior vena cava tumor thrombus: demonstration by Gd-DTPA enhanced MR. Gehl HB, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):479–81

Differentiation of hepatic hemangiomas from metastases by dynamic contrast-enhanced MR imaging. Hamm B, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):205–16

Toxoplasmic myelitis in AIDS: gadolinium-enhanced MR. Harris TM, et al. **J Comput Assist Tomogr** 1990 Sep–Oct; 14(5):809–11

Gd-DTPA enhanced MR imaging of the breast in patients with postoperative scarring and silicon implants. Heywang SH, et al. **J Comput Assist Tomogr** 1990 May–Jun; 14(3):348–56

Gadolinium enhanced MR imaging of vascular stents. Matsumoto AH, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):357–61

Meningeal Gd-DTPA enhancement in patients with malignancies. Paakko E, et al. **J Comput Assist Tomogr** 1990 Jul–Aug;14(4):542–6

Neoplastic vs inflammatory meningeal enhancement with Gd-DTPA. Phillips ME, et al. **J Comput Assist Tomogr** 1990 Jul–Aug;14(4):536–41

Gadolinium-enhanced MR in spinal infection. Post MJ, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):721–9

Clinical experience with routine Gd-DTPA administration for MR imaging of the brain. Schwaighofer BW, et al. **J Comput Assist Tomogr** 1990 Jan–Feb;14(1):11–7

Neurosarcoidosis: gadolinium-enhanced MR imaging. Williams DW 3d, et al. **J Comput Assist Tomogr** 1990

Sep-Oct;14(5):704-7

Kit preparation of technetium-99m-mercaptoacetyltriglycine: analysis, biodistribution and comparison with technetium-99m-DTPA in patients with impaired renal function. Bannister KM, et al. **J Nucl Med** 1990 Sep; 31(9):1568-73

The utility of technetium-99m DTPA inhalational scans in artificially ventilated patients. Butler SP, et al. **J Nucl Med** 1990 Jan;31(1):46-51

Comparison of methods for calculating glomerular filtration rate: technetium-99m-DTPA scintigraphic analysis, protein-free and whole-plasma clearance of technetium-99m-DTPA and iodine-125-iothalamate clearance. Goates JJ, et al. **J Nucl Med** 1990 Apr; 31(4):424-9

Urine excretion of inhaled technetium-99m-DTPA: an alternative method to assess lung epithelial transport. Köhn H, et al. **J Nucl Med** 1990 Apr;31(4):441-9

Metabolism of indium-111-labeled murine monoclonal antibody in tumor and normal tissue of the athymic mouse. Motta-Hennessy C, et al. **J Nucl Med** 1990 Sep; 31(9):1510-9

Methods for measuring GFR with technetium-99m-DTPA: an analysis of several common methods. Mulligan JS, et al. **J Nucl Med** 1990 Jul;31(7):1211-9

Effect of background correction on separate technetium-99m-DTPA renal clearance. Piepsz A, et al. **J Nucl Med** 1990 Apr;31(4):430-5

High alveolar surface tension increases clearance of technetium 99m diethylenetriamine-pentaacetic acid [see comments] Nieman G, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):129-33 Comment in: J Thorac Cardiovasc Surg 1990 Jul;100(1):145-6.

Clinical applications of gadolinium-DTPA in MRI. de Roos A, et al. **Magn Reson Annu** 1988;:113-45 (35 ref.)

The prospective evaluation of Gd-DTPA in 225 consecutive cranial cases: adverse reactions and diagnostic value. Carollo BR, et al. **Magn Reson Imaging** 1990;8(4):381-93

Subtraction technique for contrast-enhanced MR images of musculoskeletal tumors. Hanna SL, et al. **Magn Reson Imaging** 1990;8(3):213-5

Magnetic resonance contrast agents in the evaluation of the musculoskeletal system. Bloem JL, et al. **Magn Reson Q** 1990 Apr;6(2):136-63 (43 ref.)

Contrast-enhanced magnetic resonance imaging of the abdomen and pelvis. Hamm B, et al. **Magn Reson Q** 1990 Apr;6(2):108-35 (96 ref.)

The role of gadolinium-diethylenetriaminepentaacetic acid in the evaluation of the central nervous system. Runge VM, et al. **Magn Reson Q** 1990 Apr;6(2):85-107 (58 ref.)

Serial study of gadolinium-DTPA MRI enhancement in multiple sclerosis. Bastianello S, et al. **Neurology** 1990 Apr; 40(4):591-5

Heterogeneity of blood-brain barrier changes in multiple sclerosis: an MRI study with gadolinium-DTPA enhancement. Kermode AG, et al. **Neurology** 1990 Feb; 40(2):229-35

Gadolinium-DTPA enhanced MR imaging in tuberous sclerosis. Martin N, et al. **Neuroradiology** 1990;31(6):492-7

The renal background in the determination of renal clearance by means of the gamma camera and the 99Tcm-DTPA complex [letter; comment] Piepsz A, et al. **Nucl Med Commun** 1989 Sep;10(9):695-7 Comment on: Nucl Med Commun 1988 Dec;9(12):973-85.

Gadolinium-DTPA-enhanced magnetic resonance imaging in optic neuropathies. Guy J, et al. **Ophthalmology** 1990 May;97(5):592-9; discussion 599-600

Gadolinium-DTPA-enhanced magnetic resonance imaging in experimental optic neuritis. Guy J, et al. **Ophthalmology** 1990 May;97(5):601-7

Gadolinium-DTPA enhanced magnetic resonance imaging in acoustic neuroma diagnosis and management. Jackler RK, et al. **Otolaryngol Head Neck Surg** 1990 Jun; 102(6):670-7

Gadolinium-enhanced magnetic resonance imaging in facial nerve lesions. Millen SJ, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):26-33

Brain MR in patients with Langerhans cell histiocytosis: findings and enhancement with Gd-DTPA. Rosenfield NS, et al. **Pediatr Radiol** 1990;20(6):433-6

Gd-DTPA administered MR imaging of intracranial mass lesions: a comparison with CT and precontrast MR. Mihara F, et al. **Radiat Med** 1989 Sep-Oct;7(5):227-35

Assessment of magnetic resonance contrast enhancement with Gd-DTPA: comparison with the uptake of Tc-99m-DTPA. Suto Y, et al. **Radiat Med** 1989 Sep-Oct; 7(5):209-13

Patients at high risk for renal artery stenosis: a simple method of renal scintigraphic analysis with Tc-99m DTPA and captopril. Chen CC, et al. **Radiology** 1990 Aug; 176(2):365-70

Gadolinium-enhanced MR angiography. Creasy JL, et al. **Radiology** 1990 Apr;175(1):280-3

Myocardial infarct size after reperfusion therapy: assessment with Gd-DTPA-enhanced MR imaging. de Roos A, et al. **Radiology** 1990 Aug;176(2):517-21

Cerebral blood flow: assessment with dynamic contrast-enhanced T2*-weighted MR imaging at 1.5 T. Edelman RR, et al. **Radiology** 1990 Jul;176(1):211-20

Renal masses: evaluation with gradient-echo Gd-DTPA-enhanced dynamic MR imaging. Eilenberg SS, et al. **Radiology** 1990 Aug;176(2):333-8

Cranial MR imaging with Gd-DTPA in neonates and young infants: preliminary experience. Elster AD. **Radiology** 1990 Jul;176(1):225-30

Musculoskeletal neoplasms: fast low-angle shot MR imaging with and without Gd-DTPA. Erlemann R, et al. **Radiology** 1990 Aug;176(2):489-95

Musculoskeletal neoplasms: dynamic Gd-DTPA-enhanced MR imaging [letter] Fletcher BD, et al. **Radiology** 1990 Oct;177(1):287-8

Dural "tail" associated with meningiomas on Gd-DTPA-enhanced MR images: characteristics, differential diagnostic value, and possible implications for treatment. Goldsher D, et al. **Radiology** 1990 Aug; 176(2):447-50

Gadodiamide injection: nonionic gadolinium chelate for MR imaging of the brain and spine—phase II-III clinical trial. Greco A, et al. **Radiology** 1990 Aug;176(2):451-6

Gadopentetate dimeglumine: observations on the clinical research process [editorial; comment] Kieffer SA. **Radiology** 1990 Jan;174(1):7-8 Comment on: Radiology 1990 Jan;174(1):17-23.

Rheumatoid arthritis: evaluation of hypervascular and fibrous pannus with dynamic MR imaging enhanced with Gd-DTPA. König H, et al. **Radiology** 1990 Aug; 176(2):473-7

Rheumatoid knee: role of gadopentetate-enhanced MR imaging. Kursunoglu-Brahme S, et al. **Radiology** 1990 Sep; 176(3):831-5

Chronic inflammatory disease of the middle ear cavities: Gd-DTPA-enhanced MR imaging. Martin N, et al. **Radiology** 1990 Aug;176(2):399-405

Pituitary adenomas and normal pituitary tissue: enhancement patterns on gadopentetate-enhanced MR imaging. Miki Y, et al. **Radiology** 1990 Oct;177(1):35-8

Comparison of Gd-BOPTA with Gd-DTPA in MR imaging of rat liver. Pavone P, et al. **Radiology** 1990 Jul;176(1):61-4

Obstructive nephropathy: evaluation with dynamic Gd-DTPA-enhanced MR imaging. Semelka RC, et al. **Radiology** 1990 Jun;175(3):797-803

Breast disease: tissue characterization with Gd-DTPA enhancement profiles. Stack JP, et al. **Radiology** 1990 Feb; 174(2):491-4

Prominent meningeal enhancement adjacent to meningioma on Gd-DTPA-enhanced MR images: histopathologic correlation. Tokumaru A, et al. **Radiology** 1990 May; 175(2):431-3

Evaluation of Gd-DTPA-labeled dextran as an intravascular MR contrast agent: imaging characteristics in normal rat tissues. Wang SC, et al. **Radiology** 1990 May;175(2):483-8

Calvarial and skull base metastases: comparison of nonenhanced and Gd-DTPA-enhanced MR images. West MS, et al. **Radiology** 1990 Jan;174(1):85-91

Pulmonary involvement in systemic sclerosis: the detection of early changes by thin section CT scan, bronchoalveolar lavage and 99mTc-DTPA clearance. Harrison NK, et al. **Respir Med** 1989 Sep;83(5):403-14

The place of lung 99mTc DTPA aerosol transfer in the investigation of lung infections in HIV positive patients. O'Doherty MJ, et al. **Respir Med** 1989 Sep;83(5):395-401

Gadolinium-DTPA in rheumatoid arthritis and related diseases: first results with dynamic magnetic resonance imaging. Reiser MF, et al. **Skeletal Radiol** 1989;18(8):591-7

T1 and T2 relaxation times on gadolinium-diethylenetriaminepentaacetic acid enhanced magnetic resonance images of brain tumors. Yamada S, et al. **Tohoku J Exp Med** 1990 Feb;160(2):145-8

Paramagnetic contrast agents in the evaluation of brain neoplasms. Hinshaw DB Jr, et al. **Top Magn Reson Imaging** 1989 Mar;1(2):79-93

Gadolinium enhanced magnetic resonance imaging in the diagnosis of anterior visual pathway meningiomas. Alper MG, et al. **Trans Am Ophthalmol Soc** 1990;87:384-415; discussion 415-9

Gadolinium-enhanced magnetic resonance imaging in the staging of urinary bladder neoplasms. Sohn M, et al. **Urol Int** 1990;45(3):142-7

[A comparison of three different techniques for measuring glomerular filtration rate] Herbst CP, et al. **S Afr Med J** 1990 Sep 1;78(5):266-7 (Eng. Abstr.) **(Afr)**

[Gadolinium-DTPA in the study of intracranial tumors in the adult] Grégoire N, et al. **Rev Neurol (Paris)** 1990; 146(2):133-43 (Eng. Abstr.) **(Fre)**

[Contrast media for nuclear magnetic resonance tomography] Schwing C. **Digitale Bilddiagn** 1990 Mar;10(1):36-8 **(Ger)**

[Fluorescence perfusion scintigraphy. A new method for quantifying ocular circulatory disorders] Nasemann JE, et al. **Fortschr Ophthalmol** 1989;86(6):732-7 (Eng. Abstr.) **(Ger)**

[Magnetic resonance tomography with gadolinium DTPA in multiple sclerosis. Findings in initial manifestation and later disease stages] Rüttinger H, et al. **Nervenarzt** 1990 Jun;61(6):356-60 **(Ger)**

[Magnetic resonance tomography of adrenal gland tumors. Detection and differentiation using fast gradient echo sequences and dynamic contrast media studies] Krestin GP, et al. **Radiologe** 1990 May;30(5):228-34 (Eng. Abstr.) **(Ger)**

[The differential use of 99mTc-DTPA and 99mTc-MAG3 in the aftercare of kidney transplant patients] Kotzerke J, et al. **ROFO** 1990 Feb;152(2):241-2 **(Ger)**

[Gadolinium-DTPA as an oral contrast medium for MR tomography of the abdomen] Krahe T, et al. **ROFO** 1990 Aug;153(2):167-73 (Eng. Abstr.) **(Ger)**

[The diagnostic value of MR tomography following gadolinium-DTPA compared to computed tomography in bladder tumors] Nicolas V, et al. **ROFO** 1990 Aug; 153(2):197-203 (Eng. Abstr.) **(Ger)**

[MRT using Gd-DTPA in the diagnosis of tumor and pseudotumor intracardiac masses] Schratter M, et al. **ROFO** 1990 Jan;152(1):16-22 (Eng. Abstr.) **(Ger)**

[Optimization of gadolinium-DTPA dose: an inter-individual study of patients with intracranial tumors] Schubeus P, et al. **ROFO** 1990 Jul;153(1):29-35 (Eng. Abstr.) **(Ger)**

[3D-MR-angiography using Gd-DTPA] Seiderer M, et al. **ROFO** 1990 Mar;152(3):327-32 (Eng. Abstr.) **(Ger)**

[MRT of tumors of the larynx and hypopharynx using Gd-DTPA: clinical value] Vogl T, et al. **ROFO** 1990 Apr; 152(4):405-11 (Eng. Abstr.) **(Ger)**

[Contrast medium assisted nuclear magnetic resonance tomography. Signal intensity of gliomatous tumors] Agnoli AL, et al. **Rontgenblatter** 1990 Aug;43(8):335-40 (Eng. Abstr.) **(Ger)**

[Magnetic resonance tomography using gadolinium-DTPA in the diskectomy syndrome—a reliable method of identifying a recurrent prolapse in scar tissue] Majewski A, et al. **Rontgenblatter** 1989 Dec;42(12):499-504 (Eng. Abstr.) **(Ger)**

[Gadolinium-DTPA in magnetic resonance tomography. Clinical use—indications] Prayer L, et al. **Rontgenblatter** 1989 Dec;42(12):493-8 (Eng. Abstr.) **(Ger)**

[A comparative study between Gd-BOPTA, a biliary excretion contrast medium, and Gd-DTPA in the magnetic resonance imaging of the rat liver] Patrizio G, et al. **Radiol Med (Torino)** 1990 May;79(5):458-62 (Eng. Abstr.) **(Ita)**

[Quantitation of absolute and relative renal uptake using 99mTc-DMSA: sequential change in time and correlation with 99mTc-DTPA uptake] Itoh K, et al. **Kaku Igaku** 1990 Mar;27(3):237-42 (Eng. Abstr.) **(Jpn)**

[Captopril-enhanced renography using 99mTc-DTPA in renovascular hypertensive patients] Itoh K, et al. **Kaku Igaku** 1990 Apr;27(4):363-71 (Eng. Abstr.) **(Jpn)**

[An experience of single dose captopril renal scintigraphy in the diagnosis and management of bilateral renovascular hypertension] Kurisu K, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 May;81(5):739-42 (Eng. Abstr.) **(Jpn)**

[MR-angiography with intravenous administration of Gd-DTPA] Saito Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 May 25; 49(5):688-90 (Eng. Abstr.) **(Jpn)**

[Magnetic resonance imaging of bladder tumors: superiority of serial "Fast SE" assisted by Gd-DTPA in tumor staging] Tanimoto A, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Dec 25; 49(12):1552-66 (Eng. Abstr.) **(Jpn)**

[Tc-99m DTPA scintigraphic findings in patients with postoperative complications of renal transplantation] Koizumi K, et al. **Rinsho Hoshasen** 1989 Nov; 34(12):1423-32 (Eng. Abstr.) **(Jpn)**

[A case of spinal dural arteriovenous malformation associated with the broad lesion within spinal cord—diagnostic value of MRI with Gd-DTPA enhancement] Terai S, et al. **Rinsho Shinkeigaku** 1990 Apr;30(4):407-12 (Eng. Abstr.) **(Jpn)**

[A comparative evaluation of methods for determining the glomerular filtration rate by 169Yb-DTPA clearance] Kasatkin IuN, et al. **Med Radiol (Mosk)** 1989 Nov; 34(11):55-8 (Eng. Abstr.) **(Rus)**

[Determination of effective renal blood flow and the rate of glomerular filtration by sequential administration of I-131 hippuran and Yb-169 DTPA] Kasatkin IuN, et al. **Med Radiol (Mosk)** 1990 Apr;35(4):46-8 (Eng. Abstr.) **(Rus)**

[Determination of glomerular filtration in children using 99mTc-DTPA and the sequential gammagraphy method] Vivodová M, et al. **Bratisl Lek Listy** 1989 Aug;90(8):578-84 (Eng. Abstr.) **(Slo)**

METABOLISM

Magnetic resonance imaging increases the blood-brain barrier permeability to 153-gadolinium diethylenetriaminepentaacetic acid in rats. Prato FS, et al. **Brain Res** 1990 Jul 23;523(2):301-4

Targeting of indium 111-labeled bivalent hapten to human melanoma mediated by bispecific monoclonal antibody conjugates: imaging of tumors hosted in nude mice [published erratum appears in Cancer Res 1990 Sep 15;50(18):6115] Le Doussal JM, et al. **Cancer Res** 1990 Jun 1;50(11):3445-52

99Tcm-DTPA implications for waste disposal assessment. Hawkins T. **Nucl Med Commun** 1989 Aug;10(8):601-2

PHARMACOKINETICS

Blood-brain barrier injury following intracarotid injection of radiographic contrast media. In vivo quantification using magnetic resonance imaging and Gd-DTPA. Hayakawa K, et al. **Acta Radiol** 1990 Mar;31(2):203-8

Excretion of gadopentetate dimeglumine in human breast milk. Schmiedl U, et al. **AJR Am J Roentgenol** 1990 Jun; 154(6):1305-6

Sequential assessment of pulmonary epithelial diethylene triamine penta-acetate clearance and intrapulmonary transferrin accumulation during Escherichia coli peritonitis. Ishizaka A, et al. **Am Rev Respir Dis** 1990 Mar;141(3):631–9

Effects of high frequency jet ventilation on the pulmonary clearance of 99mTc-DTPA in respiratory failure in rabbits. Bos JA, et al. **Br J Anaesth** 1989;63(7 Suppl 1):59S–64S

Measurement of microvascular permeability to small solutes in man: limitations of the technique. Peters AM. **Cardiovasc Res** 1990 Jun;24(6):504–9

Capillary permeability of 99mTc-DTPA in canine myocardium determined by intracoronary bolus injection and residue detection. Svendsen JH, et al. **Cardiovasc Res** 1989 Jun;23(6):512–9

Pulmonary absorption of instilled and inhaled DTPA in smokers. Groth S, et al. **Clin Physiol** 1990 May;10(3):231–43

Analysis of elimination mechanisms of some 99mTc-complexes. Lázničková A, et al. **Int J Rad Appl Instrum [B]** 1989;16(8):765–70

Biodistribution and magnetic resonance imaging of cross-linked DTPA polysaccharides. Gibby WA, et al. **Invest Radiol** 1990 Feb;25(2):164–72

Effects of sustained exercise on pulmonary clearance of aerosolized 99mTc-DTPA. Lorino AM, et al. **J Appl Physiol** 1989 Nov;67(5):2055–9

Energy-dispersive x-ray microscopy to trace gadolinium in tissues. Elster AD. **Radiology** 1989 Dec;173(3):868–70

Glomerular filtration rate estimated by X-ray fluorescence technique in children: comparison between the plasma disappearance of 99Tcm-DTPA and iohexol after urography. Stake G, et al. **Scand J Clin Lab Invest** 1990 Apr;50(2):161–7

PHARMACOLOGY

Clinical use of contrast media in magnetic resonance imaging. Bydder GM. **Br J Hosp Med** 1990 Feb;43(2):149–52 (16 ref.)

The efficacies of pure LICAM(C) and DTPA for enhancing the elimination of plutonium-238 and americium-241 from rats after their inhalation as nitrate. Stradling GN, et al. **Exp Pathol** 1989;37(1–4):83–8

Effect of trisodium pentetat on the distribution of cadmium in some body organs & on hepatic metallothionein in rats. Flora SJ, et al. **Indian J Med Res** 1989 Oct;90:363–6

The effect of intra-articular gadolinium-DTPA on synovial membrane and cartilage. Hajek PC, et al. **Invest Radiol** 1990 Feb;25(2):179–83

The influence of CDTA and DPTA on ethanol production from sugar cane molasses using Saccharomyces cerevisiae. Oderinde RA, et al. **Nahrung** 1990;34(2):171–5

THERAPEUTIC USE

Demonstration of the area postrema with contrast-enhanced MR. Williams KD, et al. **AJNR** 1990 Jul–Aug;11(4):733–4

Selection of a DTPA chelate conjugate for monoclonal antibody targeting to a human colonic tumor in nude mice. Sharkey RM, et al. **Int J Cancer** 1990 Jul 15;46(1):79–85

The efficacies of pure LICAM(C) and DTPA on the retention of plutonium-238 and americium-241 in rats after their inhalation as nitrate and intravenous injection as citrate. Stradling GN, et al. **Int J Radiat Biol** 1989 Oct; 56(4):503–14

TOXICITY

The effect of Gd-dimeglumine on subcutaneous tissues: a study with rats. McAlister WH, et al. **AJNR** 1990 Mar–Apr;11(2):325–7

Safety assessment of gadopentetate dimeglumine in U.S. clinical trials [see comments] Goldstein HA, et al. **Radiology** 1990 Jan;174(1):17–23 Comment in: Radiology 1990 Jan;174(1):7–8.

DUAL-ENERGY SCANNED PROJECTION RADIOGRAPHY see **RADIOGRAPHY, DUAL-ENERGY SCANNED PROJECTION**

DUAL PERSONALITY see **MULTIPLE-PERSONALITY DISORDER**

DUAL-PHOTON ABSORPTIOMETRY see **ABSORPTIOMETRY, PHOTON**

DUANE'S SYNDROME see under **OPHTHALMOPLEGIA**

DUBIN-JOHNSON SYNDROME see **JAUNDICE, CHRONIC IDIOPATHIC**

DUCHENNE MUSCULAR DYSTROPHY see **MUSCULAR DYSTROPHY**

DUCKS

Effects of halothane and isoflurane on mean arterial blood pressure, heart rate, and respiratory rate in adult Pekin ducks. Goelz MF, et al. **Am J Vet Res** 1990 Mar; 51(3):458–60

Kinetic analysis of duck epsilon-crystallin, a lens structural protein with lactate dehydrogenase activity. Chiou SH, et al. **Biochem J** 1990 Apr 1;267(1):51–8

Laboratory assessment of protection given by experimental Pasteurella anatipestifer vaccine. Timms LM, et al. **Br Vet J** 1989 Sep–Oct;145(5):483–93

Contribution of aflatoxin B1 and hepatitis B virus infection in the induction of liver tumors in ducks. Cova L, et al. **Cancer Res** 1990 Apr 1;50(7):2156–63

Hepatic neoplasms in aflatoxin B1-treated, congenital duck hepatitis B virus-infected, and virus-free pekin ducks. Cullen JM, et al. **Cancer Res** 1990 Jul 1;50(13):4072–80

Inhibition of duck hepatitis B virus replication by 2',3'-dideoxycytidine. A potent inhibitor of reverse transcriptase. Kassianides C, et al. **Gastroenterology** 1989 Nov;97(5):1275–80

Extrahepatic replication of duck hepatitis B virus: more than expected. Hosoda K, et al. **Hepatology** 1990 Jan;11(1):44–8

Chemical and morphological studies of liver from eider (Somateria mollissima) in Svalbard with special reference to the distribution of copper. Norheim G, et al. **J Comp Pathol** 1990 May;102(4):457–66

Auditory basis of maternal attachment in ducklings (Anas platyrhynchos) under simulated naturalistic imprinting conditions. Dyer AB, et al. **J Comp Psychol** 1990 Jun; 104(2):190–4

Muscovy ducks as an adjunct for the control of the house fly (Diptera: Muscidae). Glofcheskie BD, et al. **J Econ Entomol** 1990 Jun;83(3):788–91

Antiviral strategies in chronic hepatitis B virus infection: I. Establishment of an in vitro system using the duck hepatitis B virus model. Bishop N, et al. **J Med Virol** 1990 Jun; 31(2):82–9

Antiviral strategies in chronic hepatitis B virus infection: II. Inhibition of duck hepatitis B virus in vitro using conventional antiviral agents and supercoiled-DNA active compounds. Civitico G, et al. **J Med Virol** 1990 Jun; 31(2):90–7

Domestic ducks prefer mosquito larvae as their diet. Aziz A, et al. **JPMA** 1990 Feb;40(2):42–3

Duck virus enteritis in Great Britain, 1980 to 1989. Gough RE, et al. **Vet Rec** 1990 Jun 16;126(24):595–7

Mycoplasmas and acholeplasmas isolated from ducks and their possible association with pasteurellas. Tiong SK. **Vet Rec** 1990 Jul 21;127(3):64–6

Epitope-specific antibody response to the surface antigen of duck hepatitis B virus in infected ducks. Cheung RC, et al. **Virology** 1990 Jun;176(2):546–52

[Intensive raising of Muscovy ducks] Dayen M, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Apr;97(4):149–51 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Histomorphological changes in the oviduct of the mallard (Aves: Anatidae). Sharma RK, et al. **Acta Morphol Neerl Scand** 1989;27(3–4):183–92

Microvasculature of the nasal salt gland of the duckling, Anas platyrhynchos: quantitative responses to osmotic adaptation and deadaptation studied with vascular corrosion casting. Hossler FE, et al. **J Exp Zool** 1990 Jun;254(3):237–47

BLOOD

Changes in mallard (Anas platyrhynchos) serum chemistry due to age, sex, and reproductive condition. Fairbrother A, et al. **J Wildl Dis** 1990 Jan;26(1):67–77

Differential white blood cell values of the mallard (Anas platyrhynchos) across different ages and reproductive states. Fairbrother A, et al. **J Wildl Dis** 1990 Jan; 26(1):78–82

EMBRYOLOGY

Hatching eggs sanitized with chlorine dioxide foam: egg hatchability and bactericidal properties. Patterson PH, et al. **Avian Dis** 1990 Jan–Mar;34(1):1–6

Pre-natal development of the adrenal gland in the mallard duck (Anas platyrhynchos). Cronshaw J, et al. **Cell Tissue Res** 1989 Dec;258(3):593–601

Comparative metabolic responses to prolonged cooling in precocial duck (Anas domestica) and altricial pigeon (Columba domestica) embryos. Kuroda O, et al. **Comp Biochem Physiol [A]** 1990;95(3):407–10

Synapse formation on quail trochlear neurons transplanted in duck embryos before naturally occurring motor neuron death. Sohal GS, et al. **Int J Dev Neurosci** 1990;8(1):9–16

GENETICS

Maternal transmission of mitochondrial DNA in ducks. Lin LY, et al. **Biochem Biophys Res Commun** 1990 Apr 16; 168(1):188–93

Gene organization of the Peking duck mitochondrial genome. Desjardins P, et al. **Curr Genet** 1990 Jun;17(6):515–8

Transcription factor USF from duck erythrocytes transactivates expression of the histone H5 gene in vitro by interacting with an intragenic sequence. Düring F, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1225–31

Nucleotide sequence of the gene encoding the duck embryonic epsilon-globin. Mathieu-Kolling C, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3657

GROWTH & DEVELOPMENT

[The use of mixed feed with reduced content of vitamin A, E and nicotinic acid in the fattening of cairinas] Richter G, et al. **Arch Tierernahr** 1989 Dec;39(12):1065–74 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Duck lymphocytes—III. Transformation responses to some common mitogens. Higgins DA. **Comp Immunol Microbiol Infect Dis** 1990;13(1):13–23

Effects of sewage sludge on the immune defenses of mallards. Goldberg DR, et al. **Environ Res** 1990 Apr;51(2):209–17

The transport and culture conditions for optimum transformation responses of wildfowl lymphocytes to mycobacterial antigens. Cromie RL, et al. **J Immunol Methods** 1989 Sep 1;122(2):195–201

Natural infection of duck embryos with duck hepatitis B virus: time and tissue sequence of infection. Dixon RJ, et al. **J Med Virol** 1989 Dec;29(4):303–7

Mortality from duck plague virus in immunosuppressed adult mallard ducks. Goldberg DR, et al. **J Wildl Dis** 1990 Jul; 26(3):299–306

Immune response of mallard ducks treated with immunosuppressive agents: antibody response to erythrocytes and in vivo response to phytohemagglutinin-P. Schrank CS, et al. **J Wildl Dis** 1990 Jul;26(3):307–15

Effects of ingested lead on antibody production in mallards (Anas platyrhynchos). Trust KA, et al. **J Wildl Dis** 1990 Jul;26(3):316–22

[The interferon system in ducks infected with viral hepatitis B] Nosik NN, et al. **Vopr Virusol** 1989 May–Jun;34(3):302–5 (Eng. Abstr.) **(Rus)**

METABOLISM

Intracellular [Ca2+] and inositol phosphates in avian nasal gland cells. Shuttleworth TJ, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 1):C1020–9

Selenium accumulation and elimination in mallards. Heinz GH, et al. **Arch Environ Contam Toxicol** 1990 May–Jun; 19(3):374–9

A preliminary study of the translocation of aldicarb across the duck eggshell. Chambers PL, et al. **Ecotoxicol Environ Safety** 1989 Dec;18(3):296–304

Role of angiotensin II in aldosterone regulation in the Pekin duck. Gray DA, et al. **J Endocrinol** 1989 Dec;123(3):445–52

Effects of antithyroid drug on the rectal temperature and metabolic parameters of ducks (Cairina moschata). Artoni SM, et al. **Poult Sci** 1989 Oct;68(10):1381–4

The digestibility of cell-wall polysaccharides from wheat (bran or whole grain), soybean meal, and white lupin meal in cockerels, muscovy ducks, and rats. Carré B, et al. **Poult Sci** 1990 Apr;69(4):623–33

MICROBIOLOGY

Lack of persistence of influenza virus genetic information in ducks. Wang M, et al. **Arch Virol** 1990;111(3–4):263–7

Avian influenza viruses from migratory and resident ducks of coastal Louisiana. Stallknecht DE, et al. **Avian Dis** 1990 Apr–Jun;34(2):398–405

Reduced duck hepatitis B virus viraemia in ducklings coinfected with the immunodepressive reticuloendotheliosis virus. Dixon RJ, et al. **J Med Virol** 1990 Mar;30(3):169–73

Antigenic and phenotypic variants of a virulent avian influenza virus selected during replication in ducks. Philpott MS, et al. **J Wildl Dis** 1989 Oct;25(4):507–13

Molecular cloning and sequence analysis of duck hepatitis B virus genomes of a new variant isolated from Shanghai ducks. Uchida M, et al. **Virology** 1989 Dec;173(2):600–6

[Molecular basis of retrovirus adaptation: nucleotide sequence of Rous sarcoma virus adapted to duck cells] Ryndich AV, et al. **Genetika** 1990 Mar;26(3):389–98 (Eng. Abstr.) **(Rus)**

[The antagonistic activity of lactic acid bacteria in relation to the causative agents of intestinal diseases in domestic birds] Kvasnikov EI, et al. **Mikrobiol Zh** 1983 Sep–Oct; 45(5):27–32 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Mallard ducklings (Anas platyrhynchos) experimentally infected with Echinostoma trivolvis (Digenea). Mucha KH, et al. **J Parasitol** 1990 Aug;76(4):590–2

Redescription of flagellar arrangement in the duck intestinal flagellate, Cochlosoma anatis and description of a new species, Cochlosoma soricis n. sp. from shrews. Watkins RA, et al. **J Protozool** 1989 Nov–Dec;36(6):527–31

Sarcocystis in American black ducks wintering in New Jersey. Costanzo GR. **J Wildl Dis** 1990 Jul;26(3):387–9

[Verminous pancreatitis in Anas platyrhynchos] Popp A, et al. **Angew Parasitol** 1989 Aug;30(3):193–4 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Osmotic and hormonal stimulation of the third ventricular region of ducks: antidiuretic, circulatory and local neuronal responses. Simon-Oppermann C, et al. **Acta Physiol Scand Suppl** 1989;583:131–40

Differential osmoresponsiveness of periventricular neurons in duck hypothalamus. Kanosue K, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R973–81

Effects of acute and chronic baroreceptor denervation on diving responses in ducks. Smith FM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R895–902

Acid precipitation and food quality: inhibition of growth and survival in black ducks and mallards by dietary aluminum,

calcium, and phosphorus. Sparling DW.
Arch Environ Contam Toxicol 1990 May-Jun;19(3):457-63
Complete homology in metallothionein from two genera of ducks and their hybrids. Lin LY, et al.
Biochem Biophys Res Commun 1990 Apr 16;168(1):182-7
Rhythmic occurrence of sexual behavior and egg laying activity of Muscovy ducks. Raud H, et al. **Br Poult Sci** 1990 Mar;31(1):23-32
Hepatic enzyme activity after combined administration of methylmercury, lead and cadmium in the pekin duck. Jordan SA, et al. **Bull Environ Contam Toxicol** 1990 Apr; 44(4):623-8
Atrial natriuretic factor controls salt gland secretion in the Pekin duck (Anas platyrhynchos) through interaction with high affinity receptors. Schütz H, et al. **Endocrinology** 1990 Oct;127(4):1718-26
Vernal increases in prolactin levels of nonbreeding male and female canvasbacks (Aythya valisineria). Bluhm CK, et al. **Gen Comp Endocrinol** 1989 Nov;76(2):286-91
Arterial hypotension in ducks adapted to high salt intake. Brummermann M, et al. **J Comp Physiol [B]** 1990; 160(2):127-36
The effect of tamoxifen on sexual puberty of turkey toms and Muscovy drakes. Rozenboim I, et al. **Poult Sci** 1990 Jan;69(1):176-8
Minimal anesthetic concentration and cardiopulmonary dose response of isoflurane in ducks. Ludders JW, et al.
Vet Surg 1990 Jul-Aug;19(4):304-7

DUCTUS ARTERIOSUS

ABNORMALITIES

Congenital absence of ductus arteriosus--an autopsy case. Shin HS, et al. **J Korean Med Sci** 1988 Mar;3(1):41-3

ANALYSIS

Distribution of prostacyclin synthase, 6-keto-prostaglandin F1 alpha, and 15-hydroxy-prostaglandin dehydrogenase in the normal and persistent ductus arteriosus of the dog. de Reeder EG, et al. **Am J Pathol** 1989 Nov;135(5):881-7

DRUG EFFECTS

Topical prostaglandin E2 gel for cervical ripening and closure of the ductus arteriosus in the newborn. Sung RY, et al. **Arch Dis Child** 1990 Jul;65(7 Spec No):703-4
Effect of indomethacin on the fetal ductus arteriosus during treatment of symptomatic polyhydramnios. Kirshon B, et al. **J Reprod Med** 1990 May;35(5):529-32
Betamethasone and the human fetal ductus arteriosus. Wasserstrum N, et al. **Obstet Gynecol** 1989 Dec; 74(6):897-900
[Prenatal diagnosis of premature closure of the ductus arteriosus with subsequent development of a non-immunologic hydrops fetalis] Chaoui R, et al.
Geburtshilfe Frauenheilkd 1989 Dec;49(12):1096-8 (Eng. Abstr.) **(Ger)**

EMBRYOLOGY

The effect of closing the ductus arteriosus on the pulmonary circulation of the fetal sheep. Morin FC 3d, et al.
J Dev Physiol 1989 May;11(5):283-7
Oxygen-related prostaglandin synthesis in ductus arteriosus and other vascular cells. Rabinovitch M, et al.
Pediatr Res 1989 Oct;26(4):330-5

ENZYMOLOGY

Ductus arteriosus: involvement of a sarcolemmal cytochrome P-450 in O2 constriction? Coceani F, et al.
Can J Physiol Pharmacol 1989 Nov;67(11):1448-50
Prostaglandin catabolism in fetal and maternal tissues--a study of 15-hydroxyprostaglandin dehydrogenase and delta 13 reductase with specific assay methods. Tsai MY, et al.
Prostaglandins Leukot Essent Fatty Acids 1989 Oct; 38(1):25-30

INJURIES

Reopening of the arterial duct after balloon dilatation of native coarctation. Galal O, et al. **Int J Cardiol** 1990 Apr; 27(1):133-5

PATHOLOGY

Aneurysm of the ductus arteriosus. Malone PS, et al.
Arch Dis Child 1989 Oct;64(10 Spec No):1386-8
Premature constriction of the ductus arteriosus. Huhta JC, et al. **J Am Soc Echocardiogr** 1990 Jan-Feb;3(1):30-4
[MR imaging of aortic arch anomalies--an analysis of MR visualization of ductus arteriosus] Tsuji M, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1990 Apr 25; 50(4):423-5 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Ductal left-to-right flow and pulmonary circulation in normal neonates: pulsed Doppler echocardiographic evaluation. Shiraishi H, et al.
Acta Paediatr Jpn Overseas Ed 1989 Dec;31(6):727-33
Ductus arteriosus flow velocity modulation by fetal breathing movements as a measure of fetal lung development. van Eyck J, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):558-66
Postnatal circulatory adaptation in healthy term and preterm neonates. Evans NJ, et al. **Arch Dis Child** 1990 Jan;65(1 Spec No):24-6
Doppler echocardiographic measurement of pulmonary artery pressure from ductal Doppler velocities in the newborn [see comments] Musewe NN, et al.
J Am Coll Cardiol 1990 Feb;15(2):446-56 Comment in: J Am Coll Cardiol 1990 Feb;15(2):457-8.
The ductus arteriosus: a window for assessment of pulmonary artery pressures? [comment] Snider AR.
J Am Coll Cardiol 1990 Feb;15(2):457-8 Comment on: J Am Coll Cardiol 1990 Feb;15(2):446-56.

PHYSIOPATHOLOGY

Doppler assessment of the pulsatility index of the middle cerebral artery during constriction of the fetal ductus arteriosus after indomethacin therapy. Mari G, et al.
Am J Obstet Gynecol 1989 Dec;161(6 Pt 1):1528-31

RADIOGRAPHY

An unusual case of vascular ring: the right aortic arch with mirror-image branching and aneurysm of the left ductus arteriosus. Arakawa H, et al. **Pediatr Pulmonol** 1990; 9(1):41-3

SURGERY

Repair of ductus diverticulum aneurysm [letter; comment] Wood MK. **Ann Thorac Surg** 1990 Jan;49(1):169 Comment on: Ann Thorac Surg 1989 Sep;48(3):432-3.

ULTRASTRUCTURE

The physiological closure of ductus arteriosus in the rat. An ultrastructural study. Jarkovská D, et al.
Anat Embryol (Berl) 1989;180(5):497-504
Ultrastructural and immunohistochemical changes of the extracellular matrix during intimal cushion formation in the ductus arteriosus of the dog. de Reeder EG, et al.
Atherosclerosis 1989 Sep;79(1):29-40

DUCTUS ARTERIOSUS, PATENT

COMPLICATIONS

Does the respiratory distress syndrome in twins and singletons run different risks of persistent ductus arteriosus? Zanardo V, et al. **Acta Genet Med Gemellol (Roma)** 1989; 38(3-4):315-8
Congenital absence of the pulmonary valve, intact interventricular septum, and patent ductus arteriosus: management in a newborn infant. Lau KC, et al.
Am Heart J 1990 Sep;120(3):711-4 (8 ref.)
Absent pulmonary valve syndrome with ventricular septal defect: role of the arterial duct. Ettedgui JA, et al.
Am J Cardiol 1990 Jul 15;66(2):233-4
Radiological case of the month. Idiopathic aortic thrombosis. Leonor MQ, et al. **Am J Dis Child** 1990 Aug;144(8):935-6
Patent ductus arteriosus complicated by heart failure. Classification based on clinical and serial hemodynamic studies. Tikoff G, et al. **Am J Med** 1969 Jan;46(1):43-51
Dissecting aneurysm of the pulmonary artery in a case of unoperated patent ductus arteriosus. Sardesai SH, et al.
Eur Heart J 1990 Jul;11(7):670-3
Correlation of patent ductus arteriosus shunting with plasma atrial natriuretic factor concentration in preterm infants with respiratory distress syndrome. Pesonen E, et al.
Pediatr Res 1990 Feb;27(2):137-9
[Hemodynamic effects of nifedipine on pulmonary hypertension secondary to congenital heart disease with shunts] Zhou X.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1990 Feb; 18(1):11-2, 60 (Eng. Abstr.) **(Chi)**
[Aortic valve stenosis without apparent "gradient". Demonstration and treatment in heart catheterization] de Menezes IC, et al. **Rev Port Cardiol** 1989 Dec;8(12):863-5 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Abrupt onset of patient ductus arteriosus in a 55-year-old man. Umebayashi Y, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1067-9
Doppler flow characteristics in the assessment of pulmonary artery pressure in ductus arteriosus. Houston AB, et al.
Br Heart J 1989 Oct;62(4):284-90
Doppler ultrasound and clinical evaluation in detection and grading of patient ductus arteriosus in neonates. Hirsimäki H, et al. **Crit Care Med** 1990 May;18(5):490-3
Contrast echocardiographic detection of a right-to-left shunting patent ductus arteriosus. Dick C, et al.
J Am Soc Echocardiogr 1989 May-Jun;2(3):198-201
Diagnosis of patent ductus arteriosus by serendipity in the adult. Tunick PA, et al. **J Am Soc Echocardiogr** 1988 Nov-Dec;1(6):446-9
A case of patent ductus arteriosus in an 80 years old woman. Kaku T, et al. **Jpn Heart J** 1990 Jan;31(1):127-33
[Diagnosis of patent ductus arteriosus by 2-d echocardiography] Chen S.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1990 Feb; 18(1):20-2 **(Chi)**
[Echocardiography diagnosis of persistent ductus arteriosus] Häusler HJ, et al. **Kinderarztl Prax** 1990 Mar;58(3):159-66 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Closure of patent ductus arteriosus after treatment with dexamethasone. Heyman E, et al. **Acta Paediatr Scand** 1990 Jun-Jul;79(6-7):698-700
The effect of tolazoline on right-to-left shunting via a patent ductus arteriosus in meconium aspiration syndrome. Levin DL, et al. **Crit Care Med** 1976 Nov-Dec;4(6):304-7
The effects of indomethacin on renal function and intracranial hemorrhage in infants with patent ductus arteriosus. Davis JM, et al. **Dev Pharmacol Ther** 1990;14(1):15-9
Exogenous prostaglandin administration and pseudo-Bartter syndrome. Langhendries JP, et al. **Eur J Pediatr** 1989 Dec; 149(3):208-9
Effects of highly overdosed indomethacin in a preterm infant with symptomatic patent ductus arteriosus. Schuster V, et al. **Eur J Pediatr** 1990 Jun;149(9):651-3
Pharmacokinetics of intra-arterial indomethacin treatment for patent ductus arteriosus. Weninger M, et al.
Eur J Pediatr 1989 Nov;149(2):138-40
Indomethacin for patent ductus arteriosus closure. Application of serum concentrations and pharmacodynamics to improve response. Gal P, et al.
J Perinatol 1990 Mar;10(1):20-6
Contribution of color Doppler flow imaging to the evaluation of the effect of indomethacin on neonatal cerebral hemodynamics. Van Bel F, et al. **J Ultrasound Med** 1990 Feb;9(2):107-9
[New aspects in the treatment of patent ductus arteriosus in premature newborns with respiratory insufficiency] Weninger M, et al. **Z Geburtshilfe Perinatol** 1989 Sep-Oct; 193(5):226-9 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Arteriovenous malformation of the great vein of Galen associated with patent ductus arteriosus. Report of three cases and review of the literature. Crawford JM, et al.
Childs Nerv Syst 1990 Jan;6(1):18-22 (35 ref.)

GENETICS

Trisomy 17p due to a t(8;17) (p23;p11.2)pat translocation. Case report and review of the literature.
Schrander-Stumpel C, et al. **Clin Genet** 1990 Feb; 37(2):148-52 (7 ref.)

IMMUNOLOGY

Ultrastructural and immunohistochemical changes of the extracellular matrix during intimal cushion formation in the ductus arteriosus of the dog. de Reeder EG, et al.
Atherosclerosis 1989 Sep;79(1):29-40

METABOLISM

Distribution of prostacyclin synthase, 6-keto-prostaglandin F1 alpha, and 15-hydroxy-prostaglandin dehydrogenase in the normal and persistent ductus arteriosus of the dog. de Reeder EG, et al. **Am J Pathol** 1989 Nov;135(5):881-7
Effect of patent ductus arteriosus on water accumulation and protein permeability in the lungs of mechanically ventilated premature lambs. Alpan G, et al. **Pediatr Res** 1989 Dec; 26(6):570-5

PATHOLOGY

One-stage repair of absence of the aortopulmonary septum and interrupted aortic arch. Ding WX, et al.
Ann Thorac Surg 1990 Apr;49(4):664-6
Morphology of ductus arteriosus and of the pulmonary arteries in patients with pulmonary atresia and complex congenital heart disease [letter] Marino B, et al. **Chest** 1990 Mar;97(3):766
[Pathologic anatomy of congenital heart defects] Hort W, et al. **Z Kardiol** 1989;78 Suppl 7:27-32 (32 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Two-dimensional pulsed Doppler echocardiographic technique for estimating pulmonary to systemic blood flow ratio in children with atrial septal defect and patent ductus arteriosus. Lin YF, et al.
Acta Paediatr Jpn Overseas Ed 1989 Jun;31(3):314-22
Pulsatile flow changes in the anterior cerebral arteries in infants with patent ductus arteriosus: measured with Doppler technique. Wu CM, et al. **Acta Paediatr Sin** 1989 Jan-Feb;30(1):7-14
The timing of spontaneous closure of the ductus arteriosus in infants with respiratory distress syndrome. Relier MD, et al. **Am J Cardiol** 1990 Jul 1;66(1):75-8
Hemodynamic changes in a term newborn piglet model of patent ductus arteriosus. Malone TA, et al.
Am J Perinatol 1990 Apr;7(2):184-8
Pulsed Doppler measurement of left ventricular output as early predictor of symptomatic patent ductus arteriosus in very preterm infants. Walther FJ, et al. **Biol Neonate** 1989; 56(3):121-8
Patent ductus arteriosus and cerebral circulation in preterm infants. Shortland DB, et al. **Dev Med Child Neurol** 1990 May;32(5):386-93
Cerebral blood flow following indomethacin administration. Lundell BP, et al. **Dev Pharmacol Ther** 1989;13(2-4):139-44

The clinical features, management and outcome of persistence of the arterial duct presenting in adult life. Morgan JM, et al. **Int J Cardiol** 1990 May;27(2):193–9; discussion 201–2

Effect of indomethacin on superior mesenteric artery blood flow velocity in preterm infants. Van Bel F, et al. **J Pediatr** 1990 Jun;116(6):965–70

Abnormal renal and splanchnic arterial Doppler pattern in premature babies with symptomatic patent ductus arteriosus. Wong SN, et al. **J Ultrasound Med** 1990 Mar; 9(3):125–30

Effects of indomethacin on cerebral haemodynamics in very preterm infants. Edwards AD, et al. **Lancet** 1990 Jun 23; 335(8704):1491–5

Stroke volume and left ventricular output in preterm infants with patent ductus arteriosus. Lindner W, et al. **Pediatr Res** 1990 Mar;27(3):278–81

[Quantification of pulmonary to systemic flow ratio (Qp/Qs) in children with patent ductus arteriosus by echocardiography] Zhang YO, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun;20(2):190–3 (Eng. Abstr.) **(Chi)**

[Bidirectional ductal shunts in the early neonatal period: evaluation by Doppler color flow imaging] Shiraishi H, et al. **J Cardiol** 1989 Jun;19(2):541–50 (Eng. Abstr.) **(Jpn)**

[Aortic flow patterns in normal neonates with patent ductus arteriosus: evaluation by Doppler color flow imaging] Shiraishi H, et al. **J Cardiol** 1989 Jun;19(2):551–62 (Eng. Abstr.) **(Jpn)**

[Electrovectorcardiographic aspects of systolic and diastolic overloads of the left ventricle] de Micheli A, et al. **Arch Inst Cardiol Mex** 1990 Mar–Apr;60(2):127–35 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Ectopic right coronary artery to pulmonary artery fistula masquerading as patent arterial duct. Molajo AO, et al. **Int J Cardiol** 1990 Feb;26(2):229–31

[Balloon occlusion descending aorta angiography in patients with patent ductus arteriosus] Wu JR, et al. **Acta Paediatr Sin** 1989 Mar–Apr;30(2):105–10 (Eng. Abstr.) **(Chi)**

RADIONUCLIDE IMAGING

Patent ductus arteriosus with Eisenmenger's syndrome detected by first-pass study. Kurata C, et al. **Clin Nucl Med** 1989 Nov;14(11):834–7

SURGERY

The surgery of patent ductus arteriosus. A clinical report of 14 years' experience without an operative death. Wilcox BR, et al. **Ann Thorac Surg** 1967 Feb;3(2):126–31

Asymmetrical pulmonary changes in premature infants with surgical closure of a persistent ductus arteriosus. Steinberg JD, et al. **Br J Radiol** 1990 Jan;63(745):22–5

Surgical treatment of persistent ductus arteriosus at the University College Hospital, Ibadan. Davies DC, et al. **East Afr Med J** 1989 May;66(5):340–2

Indications for open lung biopsy in patients with ventricular septal defect and/or patent ductus arteriosus with pulmonary hypertension. Yamaki S, et al. **Heart Vessels** 1990;5(3):166–71

Transcatheter closure of patent ductus arteriosus in pediatric patients. Latson LA, et al. **J Pediatr** 1989 Oct;115(4):549–53

Left ventricular dysfunction following ligation of the ductus arteriosus in the preterm baboon. Taylor AF, et al. **J Surg Res** 1990 Jun;48(6):590–6

Paralyzed left vocal cord associated with ligation of patent ductus arteriosus. Fan LL, et al. **J Thorac Cardiovasc Surg** 1989 Oct;98(4):611–3

Single lung transplantation and closure of patent ductus arteriosus for Eisenmenger's syndrome. Toronto Lung Transplant Group. Fremes SE, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):1–5

Surgical treatment of the aged patient with patent ductus arteriosus. Matsumoto H, et al. **Kyobu Geka** 1989 Oct; 42(11):933–5

Patent ductus arteriosus before and after surgery. Madiyono B, et al. **Paediatr Indones** 1989 Mar–Apr;29(3–4):39–51

Percutaneous transcatheter closure of the patent ductus arteriosus. Bush C, et al. **Radiogr Today** 1990 Feb; 56(633):20–2

Aortobronchial fistula as a complication of surgery for correction of congenital aortic anomalies. Garniek A, et al. **Radiology** 1990 May;175(2):347–8

[Surgical treatment of patient ductus arteriosus associated with pulmonary hypertension under cardiopulmonary bypass] Yu YX. **Chung Hua Wai Ko Tsa Chih** 1989 Jul; 27(7):428–9, 446 (Eng. Abstr.) **(Chi)**

[Endoluminal closure of ductus arteriosus. A cooperative study] Rey C, et al. **Arch Mal Coeur** 1990 May;83(5):615–9 (Eng. Abstr.) **(Fre)**

[A case of complex cardiac anomalies with high pulmonary blood flow treated successfully by PDA banding] Matumoto Y, et al. **Kyobu Geka** 1990 Jul;43(7):547–9 (Eng. Abstr.) **(Jpn)**

[An operative case of partial anomalous pulmonary venous connection with patent ductus arteriosus and atrial septal defect] Nagae N, et al. **Kyobu Geka** 1989 Aug;42(9):768–71 (Eng. Abstr.) **(Jpn)**

[Closure of patent ductus arteriosus in elderly cases] Yamamoto S, et al. **Kyobu Geka** 1989 Sep;42(10):842–6 (Eng. Abstr.) **(Jpn)**

[Contrast echocardiography in the evaluation of immediate results of congenital heart defects correction with arteriovenous shunting] Guliamov DS, et al. **Kardiologiia** 1990 Mar;30(3):96–7 **(Rus)**

[Closure of patent ductus arteriosus in a 2,5-month-old infant with bilateral pneumonia and decompensated cardiopulmonary insufficiency] Krivchenia Dlu, et al. **Klin Khir** 1989;(10):60–1 **(Rus)**

[Late results of the surgical treatment of patent ductus arteriosus] Guliamov DS, et al. **Vestn Khir** 1989 Aug; 144(8):56–8 **(Rus)**

THERAPY

Reocclusion for persistent shunting after catheter placement of the Rashkind patent ductus arteriosus occluder. Hosking MC, et al. **Can J Cardiol** 1989 Oct;5(7):340–2

Balloon dilatation of the very small patent ductus arteriosus in preparation for transcatheter occlusion. Benson LN, et al. **Cathet Cardiovasc Diagn** 1989 Sep;18(1):48–9

Two-dimensional echocardiographic and color flow Doppler evaluation of ductal occlusion with the Rashkind prosthesis. Musewe NN, et al. **Circulation** 1989 Dec; 80(6):1706–10

Formalin infiltration of patent ductus arteriosus [letter; comment] Moulton AL. **J Thorac Cardiovasc Surg** 1989 Dec;98(6):1150–3 Comment on: J Thorac Cardiovasc Surg 1988 Dec;96(6):912–24.

Treatment of patent ductus arteriosus after exogenous surfactant in baboons with hyaline membrane disease. Shimada S, et al. **Pediatr Res** 1989 Dec;26(6):565–9

Closure of patent ductus arteriosus using the Rashkind PDA occluder system. Hills LC. **Radiogr Today** 1989 Oct; 55(629):20–3

[Evaluation of long-term results of intravascular occlusion in patent ductus arteriosus by two-dimensional Doppler echocardiography] Savel'ev SV, et al. **Pediatriia** 1990; (4):74–8 **(Rus)**

VETERINARY

Hereditary transmission of patent ductus arteriosus in the dog. Patterson DF, et al. **Am Heart J** 1967 Aug; 74(2):289–90

Results of ligation of patent ductus arteriosus in dogs: 201 cases (1969–1988). Birchard SJ, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):2011–3

Two cases of persistent patent ductus arteriosus in calves [see comments] Horton EW, et al. **Vet Rec** 1989 Sep 23; 125(13):354 Comment in: Vet Rec 1989 Oct 21;125(17):445.

Patent ductus arteriosus [letter; comment] Renton CP. **Vet Rec** 1989 Oct 21;125(17):445 Comment on: Vet Rec 1989 Sep 23;125(13):354.

DUCTUS DEFERENS see **VAS DEFERENS**

DUE PROCESS see **JURISPRUDENCE**

DUFFY BLOOD-GROUP SYSTEM see under **BLOOD GROUPS**

DUHRING'S DISEASE see **DERMATITIS HERPETIFORMIS**

DULCITOL see under **SUGAR ALCOHOLS**

DUMPING SYNDROME

[Hormonal mechanisms and principles of treatment in dumping syndrome] Shvarts VIa. **Sov Med** 1990;(4):73–7 **(Rus)**

DRUG THERAPY

Successful treatment of refractory post-vagotomy syndrome with verapamil (Calan SR) [letter] Tabibian N. **Am J Gastroenterol** 1990 Mar;85(3):328–9

Long acting somatostatin analogue in dumping syndrome. Tulassay Z, et al. **Br J Surg** 1989 Dec;76(12):1294–5

Octreotide in the treatment of the dumping syndrome. Primrose JN. **Digestion** 1990;45 Suppl 1:49–58; discussion 58–9

Somatostatin and post-gastrectomy dumping. Thirlby RC. **Gastroenterology** 1989 Nov;97(5):1344

Treatment of nonendocrine gastrointestinal disorders with octreotide acetate. Woltering EA, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):176–9 (33 ref.)

ETIOLOGY

Extracellular space, blood volume, and the early dumping syndrome after total gastrectomy. Miholic J, et al. **Gastroenterology** 1990 Oct;99(4):923–9

Studies on the pathogenesis of the early dumping syndrome induced by intraduodenal instillation of hypertonic glucose. Snook JA, et al. **Gut** 1989 Dec;30(12):1716–20

[The relations between the morphology of the postresection gastric stump after a gastroduodenal ulcer and the dumping syndrome] Bălănescu F. **Rev Med Interna [Med Interna]** 1989 Nov–Dec;41(6):563–8 (Eng. Abstr.) **(Rum)**

[The dumping syndrome: its risk factors and evolution] Buligescu L, et al. **Rev Med Interna [Med Interna]** 1989 Jan–Feb;41(1):63–7 (Eng. Abstr.) **(Rum)**

[Pathogenesis of dumping syndrome] Gadzhiev AS. **Khirurgiia (Mosk)** 1990 Mar;(3):66–70 (Eng. Abstr.) **(Rus)**

[Gastric motility and post-gastrectomy dumping syndrome] Kuznetsov VA, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):70–2 (Eng. Abstr.) **(Rus)**

[The effect of changes in the rate of gastric emptying on the development of dumping syndrome after vagotomy] Zuev VK, et al. **Vestn Khir** 1989 Dec;144(12):43–5 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Metabolic problems after gastric surgery. Harju E. **Int Surg** 1990 Jan–Mar;75(1):27–35 (142 ref.)

SURGERY

[A treatment method of dumping syndrome after vagotomy] Gorbashko AI. **Vestn Khir** 1989 Dec;144(12):61–5 **(Rus)**

DUODENAL DISEASES

Spontaneous closure of benign duodenocolic fistula. Sikora SS, et al. **J Indian Med Assoc** 1989 Oct;87(10):242

Gastroduodenal pathology and Campylobacter pylori. Second meeting of the European Campylobacter pylori Study Group. October 12–14, 1989, Ulm, FRG. Abstracts. **Klin Wochenschr** 1989;67 Suppl 18:1–78

CHEMICALLY INDUCED

Acute gastroduodenal perforations associated with use of crack. Lee HS, et al. **Ann Surg** 1990 Jan;211(1):15–7 (18 ref.)

Frequency of gastroduodenal lesions in asymptomatic patients on chronic aspirin or nonsteroidal antiinflammatory drug therapy. Jaszewski R. **J Clin Gastroenterol** 1990 Feb;12(1):10–3

An endoscopic comparison of the gastroduodenal injury seen with salsalate and naproxen. Lanza F, et al. **J Rheumatol** 1989 Dec;16(12):1570–4

[Intramural hematoma of the duodenum as complication in anticoagulant therapy. Diagnosis and therapy] Meier R, et al. **Schweiz Rundsch Med Prax** 1990 Apr 24; 79(17):517–20 (Eng. Abstr.) **(Ger)**

CLASSIFICATION

[Functional gastroduodenal dyskinesia and dystonia] Reshetilov IuI. **Vrach Delo** 1989 Dec;(12):68–71 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Sarcoidosis causing duodenal obstruction. Case report and review of gastrointestinal manifestations. Stampfl DA, et al. **Dig Dis Sci** 1990 Apr;35(4):526–32 (74 ref.)

Periampullary diverticula predispose to primary rather than secondary stones in the common bile duct. Hall RI, et al. **Endoscopy** 1990 May;22(3):127–8

Episodic vomiting due to intermittent duodenal intussusception. Johnston JM, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):405–8

Haemorrhagic shock due to primary aortoduodenal fistula. Koot HW, et al. **Neth J Surg** 1990 Apr;42(2):53–5

Lack of a role of the duodenal microflora in pathogenesis of persistent diarrhea and diarrhea-related malabsorption in Peruvian children. Penny ME, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):479–87

The role of duodenal erosions in the occurrence of upper gastrointestinal haemorrhage. Preisich P, et al. **Scand J Gastroenterol Suppl** 1989;167:36–8

Endoscopic sphincterotomy in patients with gallbladder in situ: the influence of periampullary duodenal diverticula. Shemesh E, et al. **Surgery** 1990 Feb;107(2):163–6

AIDS-associated leishmaniasis: an unusual gastro-duodenal presentation. Datry A, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):239–40

[Juxtapapillary diverticula and biliary lithiasis: a causal relation?] Legoux JJ. **Gastroenterol Clin Biol** 1990; 14(2):196–7 **(Fre)**

[Cholestasis caused by an intradiverticular bezoar. Endoscopic treatment] Seyrig JA, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):741–3 (Eng. Abstr.) **(Fre)**

[Epigastric pain in the main diseases of the upper tract of the digestive system. Computerized analysis of the symptom in 900 cases subjected to esophagogastroduodenoscopy] Secchi GC, et al. **Ann Ital Med Int** 1986 Mar;1(1):38–46 (Eng. Abstr.) **(Ita)**

[Acute pancreatitis secondary to intraluminal duodenal diverticulum—a case report] Fujiwara S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun;86(6):1340–4 **(Jpn)**

[Perforated duodenal diverticulum: a report of 2 cases] Steinman E, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 May–Jun;44(3):121–3 (Eng. Abstr.) **(Por)**

[Esophageal cyst, accessory pulmonary lobe and duodenal diverticulum] Cherviak PI, et al. **Klin Khir** 1989;(10):67 **(Rus)**

[Diverticulosis of the duodenum as a rare cause of recurrent intestinal hemorrhage] Fomichev AA. **Klin Khir** 1990;(2):54

(Rus)
[Incidence of lesions in the gastroduodenal system in patients with bronchial asthma] Bydanov VA, et al. **Klin Med (Mosk)** 1990 Apr;68(4):69–72 (Eng. Abstr.) (Rus)
[Diagnostic possibilities of echography of the pancreas in children with chronic diseases of the gastroduodenal and biliary systems] Dvoriakovskiĭ IV, et al. **Pediatriia** 1989; (12):47–52 (Eng. Abstr.) (Rus)
[The diagnostic and prognostic significance of the skin manifestations in patients with pathology of the stomach and duodenum] Uspenskiĭ VM, et al. **Ter Arkh** 1989; 61(10):68–70 (Eng. Abstr.) (Rus)
[Mechanical ileus caused by strangulation of the small intestine in a left paraduodenal hernia and in a defect in the root of the mesentery] Kapitanović M. **Lijec Vjesn** 1989 Dec;111(12):454–7 (Eng. Abstr.) (Scr)
[Clinical significance of juxtapapillary duodenal diverticula] González JA, et al. **GEN** 1988 Jul–Sep;42(3):91–4 (Eng. Abstr.) (Spa)
[Effectiveness of emergency endoscopic sclerosis in the control of digestive hemorrhage caused by gastroduodenal ulcer] Lanas A, et al. **Rev Esp Enferm Apar Dig** 1989 Nov; 76(5):425–30 (Eng. Abstr.) (Spa)
[Intestinal and gastric cystoid pneumatosis associated with duodenal stenosis] Antela Carrera C, et al. **Rev Esp Enferm Dig** 1990 May;77(5):361–4 (Eng. Abstr.) (Spa)

CONGENITAL

[Intraduodenal development of diverticula of the lower choledochus. Apropos of 2 cases] Bona S, et al. **Ann Chir** 1989;43(7):542–6 (Eng. Abstr.) (Fre)

DIAGNOSIS

Symptomatic differentiation of duodenal from gastric fistulas in Crohn's disease. Spirt M, et al. **Am J Gastroenterol** 1990 Apr;85(4):455–8
The presentation of malrotation of the intestine in adults. Gilbert HW, et al. **Ann R Coll Surg Engl** 1990 Jul; 72(4):239–42
Unusual variant of right paraduodenal hernia. Lee TK, et al. **Aust N Z J Surg** 1990 Jun;60(6):483–5
Duodenal tuberculosis presenting as duodenal obstruction [letter] Aggarwal R, et al. **J Assoc Physicians India** 1989 May;37(5):351–2
Aortoenteric fistula without aortic dilatation: case report. Perrott CA. **J Emerg Med** 1989 Jul–Aug;7(4):349–51
[Value of esophago–gastro–duodenal fibroscopy in upper digestive hemorrhages (apropos of an experience in Dakar)] Sow AM, et al. **Dakar Med** 1988;33(1–4):88–94 (Eng. Abstr.) (Fre)
[Retroduodenal perforation following endoscopic papillotomy] Gögler H, et al. **Chirurg** 1989 Jul;60(7):492–4 (Ger)
[An unusual "tumor-like finding" between the head of the pancreas and the duodenal wall] Palitzsch KD, et al. **Dtsch Med Wochenschr** 1990 Mar 30;115(13):496–500 (Eng. Abstr.) (Ger)
[Rational diagnosis in gastroenterology: current status and perspectives. The stomach and duodenum] Gugler R. **Z Gastroenterol [Verh]** 1990 Apr;25:10–3 (29 ref.) (Ger)
[Intramural hematoma of the duodenum. Diagnosis and therapy] Alberghina A, et al. **Minerva Chir** 1990 Jan; 45(1–2):111–6 (Eng. Abstr.) (Ita)
[Digestive endoscopy in the diagnosis of upper gastrointestinal hemorrhage. A retrospective study of 340 cases] Manildo M, et al. **Minerva Med** 1989 Nov; 80(11):1211–4 (Eng. Abstr.) (Ita)
[Intramural duodenal hematoma: a case report] Takeda T, et al. **Rinsho Hoshasen** 1990 Apr;35(4):517–20 (Eng. Abstr.) (Jpn)
[Intraluminal duodenal diverticula (review of the literature)] Ponomerev AA. **Khirurgiia (Mosk)** 1990 Mar;(3):124–8 (52 ref.) (Rus)
[The clinical significance of endoscopic signs in neurodermatitis patients with gastric and duodenal pathology] Gromov VV, et al. **Vestn Dermatol Venerol** 1990;(3):32–5 (Eng. Abstr.) (Rus)
[Juxtapapillary duodenal diverticula] Lauretta R, et al. **GEN** 1988 Jul–Sep;42(3):95–8 (Eng. Abstr.) (Spa)

DRUG THERAPY

Treatment of duodenocutaneous fistula with somatostatin analog in a child with dermatomyositis. Inamdar S, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr;10(3):402–4

ENZYMOLOGY

Activity of duodenal disaccharidases in relation to normal and abnormal mucosal morphology. Langman JM, et al. **J Clin Pathol** 1990 Jul;43(7):537–40

EPIDEMIOLOGY

Epidemiology of duodenal erosions. Bovero E, et al. **Scand J Gastroenterol Suppl** 1989;167:29–31
Aortoduodenal fistula revisited. Gad A. **Scand J Gastroenterol Suppl** 1989;167:97–100 (15 ref.)
Epidemiological study of duodenal erosive disease; its prevalence and nosological position in relation to ulcerative peptic disease. Pippa G, et al. **Scand J Gastroenterol Suppl** 1989;167:32–5
[Insufficiency of the duodenal stump after gastric resection for peptic ulcer] Mishev G. **Khirurgiia (Sofiia)** 1989; 42(3):33–7 (Bul)

ETIOLOGY

Choledochoduodenal fistula: a rare complication of duodenal ulcer. Case report. Ayyash K, et al. **Acta Chir Scand** 1989 Aug;155(8):423–5
Paraprosthetic–duodenal fistula involving a mesocaval shunt. Foster WL Jr, et al. **AJR Am J Roentgenol** 1989 Dec; 153(6):1201–2
Cholecysto–duodenocolic fistula—a case report [letter] Leong S. **Ann Acad Med Singapore** 1990 May;19(3):421
A paraprosthetic–enteric fistula associated with a duodenal tumor. Dachs R, et al. **Ann Vasc Surg** 1990 Jan;4(1):65–8
Gastrointestinal bleeding due to pancreatic schwannoma complicating von Recklinghausen's disease. Walsh MM, et al. **Gastroenterology** 1989 Dec;97(6):1550–1
Upper gastrointestinal bleeding from a duodenal duplication: an unusual complication of a rare disease [letter] Duque JJ, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):471–2
Preference for hot drinks is associated with peptic disease. Pearson RC, et al. **Gut** 1989 Sep;30(9):1201–5
Choledocho–duodenal fistula due to tuberculosis. Chaudhary A, et al. **Indian J Gastroenterol** 1989 Oct;8(4):293–4
Duodenal fistula after reconstruction of the inferior vena cava with an externally stented PTFE graft. San Nicolo M, et al. **J Cardiovasc Surg (Torino)** 1990 May–Jun;31(3):382–4
Segmental dilatation of the duodenum. Rovira J, et al. **J Pediatr Surg** 1989 Nov;24(11):1155–7
Gastroduodenal artery–duodenal fistula: a complication of continuous floxuridine (FUDR) infusion into the gastroduodenal artery. Kernstine KH, et al. **J Surg Oncol** 1990 Sep;45(1):59–62
Intestinal endometriosis and its complications: case report and review. Cuzzo–Kriner MR. **Mt Sinai J Med** 1989 Sep; 56(4):334–7 (18 ref.)
[Mechanical obstruction of the duodenum after surgical repair of the abdominal aorta (letter)] Peillon C, et al. **J Chir (Paris)** 1990 Apr;127(4):239 (Fre)
[Delayed duodenal perforation caused by transhepatic biliary endoprosthesis] Grelet P, et al. **J Radiol** 1989 Nov; 70(11):613–6 (Eng. Abstr.) (Fre)
[A case of hepatocellular carcinoma (HCC) with bleeding due to duodenal perforation by the tumor] Saito A, et al. **Gan No Rinsho** 1989 Dec;35(15):1785–90 (Eng. Abstr.) (Jpn)
[Duodenal injuries due to blunt trauma] Nesbakken A, et al. **Tidsskr Nor Laegeforen** 1989 Sep 20;109(26):2659–61 (Eng. Abstr.) (Nor)
[Combined bronchopulmonary and gastroduodenal diseases] Struchkov IuV, et al. **Grud Serdechnososudistaia Khir** 1990; (3):37–40 (Eng. Abstr.) (Rus)
[Duodenal diverticulum associated with hiatal hernia after vagotomy] Makhovskiĭ VZ, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):102 (Rus)
[Ulcer of the ascending colon with fistula into the duodenum] Shmurun RI. **Klin Med (Mosk)** 1989 Sep;67(9):108–10 (Rus)
[Nutritional disorders in workers and employees of an industrial enterprise in Tselinograd and the incidence of gastroduodenal diseases] Udod VM, et al. **Vopr Pitan** 1989 Jul–Aug;(4):36–9 (Eng. Abstr.) (Rus)
[Late stenosis as a complication of an intramural duodenal hematoma] Albert Cazalla A, et al. **An Esp Pediatr** 1989 Aug;31(2):155–7 (Spa)
[Duodenocolonic fistula caused by carcinoma of the cecum] García Rodríguez JF, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):79–81 (11 ref.) (Eng. Abstr.) (Spa)
[Duodenal ulcer and duodenocholedochal fistula] Manuel Palazuelos C, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):53–4 (Eng. Abstr.) (Spa)
[Benign coloduodenal fistula caused by inflammatory pseudotumor of the colon] Ruiz Jaureguizuria JC, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):59–63 (Eng. Abstr.) (Spa)

GENETICS

Familial megaduodenum associated with hypoganglionosis. Kirk SJ, et al. **Br J Surg** 1990 Feb;77(2):138–9

METABOLISM

Exogenous prostaglandin protects against acid–induced deep mucosal injury by stimulating alkaline secretion in rat duodenum [see comments] Leung FW, et al. **Dig Dis Sci** 1989 Nov;34(11):1686–91 Comment in: Dig Dis Sci 1990 Jul;35(7):918–20.

MICROBIOLOGY

Campylobacter pylori and gastroduodenal disease. Buck GE. **Clin Microbiol Rev** 1990 Jan;3(1):1–12 (135 ref.)
Helicobacter–like organisms in gastroduodenal diseases. Andreica V, et al. **Gastroenterol Clin Biol** 1990;14(5):437–41
Campylobacter pylori in Japan: bacteriological feature and prevalence in healthy subjects and patients with gastroduodenal disorders. Inouye H, et al. **Gastroenterol Jpn** 1989 Oct;24(5):494–504
The duodenal bacterial flora in the region of papilla of Vater in patients with and without duodenal diverticula. Skar V, et al. **Scand J Gastroenterol** 1989 Aug;24(6):649–56
[Campylobacter pylori, its detection and association with common pathologic conditions of the gastro–duodenum] Fixa B, et al. **Vnitr Lek** 1990 Feb;36(2):170–6 (Eng. Abstr.) (Cze)
[Contaminated small bowel syndrome in infants caused by gram–negative bacteria and yeasts] Bodánszky H, et al. **Orv Hetil** 1990 Aug 5;131(31):1687–90 (22 ref.) (Eng. Abstr.) (Hun)
[Campylobacter pylori in gastro–duodenal diseases, with special reference to endoscopic diagnosis, histological inflammatory grading, and intestinal metaplasia] Yoshida M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jun; 86(6):1241–5 (Eng. Abstr.) (Jpn)

PATHOLOGY

Endoscopic and biopsy findings of the upper digestive tract in patients with amyloidosis. Tada S, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):10–4
Cholecystoduodenal fistula with impending gallstone ileus [clinical conference] Braver JM, et al. **Invest Radiol** 1990 Jun;25(6):757–8
The diagnosis of gastroduodenal Crohn's disease by endoscopic biopsy. Gad A. **Scand J Gastroenterol Suppl** 1989;167:23–8

PHYSIOPATHOLOGY

Motor pattern of the sphincter of Oddi in patients with juxtapapillary diverticula. Ponce J, et al. **J Clin Gastroenterol** 1990 Apr;12(2):162–5

RADIOGRAPHY

CT diagnosis of perforated duodenal diverticulum. Goodman P, et al. **Clin Imaging** 1989 Dec;13(4):321–2
Computed tomography diagnosis of primary aorto–enteric fistula. Gutman H, et al. **Clin Imaging** 1989 Sep;13(3):215–6
Coarse mucosal folds in the duodenum: a twenty–year follow–up. Clements R, et al. **Clin Radiol** 1990 Jun; 41(6):421–4
The esophagus, stomach, and duodenum. Glick SN. **Curr Opin Radiol** 1989 Jun;1(1):48–59 (56 ref.)
Perforating duodenal diverticulitis. Pugash RA, et al. **Gastrointest Radiol** 1990 Spring;15(2):156–8
Duodenal diverticula: a potential cause of morbidity during cholecystectomy. Sayers RD, et al. **J R Coll Surg Edinb** 1990 Jun;35(3):186–7
Aortoenteric fistula and perigraft infection: evaluation with CT. Low RN, et al. **Radiology** 1990 Apr;175(1):157–62
[Gastroduodenal invagination. Radio–endoscopic aspects] Etienne PL, et al. **Gastroenterol Clin Biol** 1990; 14(6–7):589–92 (Eng. Abstr.) (Fre)
[Computerized tomography image of entero–enteric invagination] Melzer G, et al. **Digitale Bilddiagn** 1989 Dec; 9(4):147–9 (Eng. Abstr.) (Ger)
[Intraluminal duodenal diverticulum] Busch HP, et al. **ROFO** 1990 Jan;152(1):103–4 (Ger)
[Duodenal diverticula and organic diseases of the pancreatoduodenal area] Loginov AS, et al. **Ter Arkh** 1989; 61(11):58–9 (Eng. Abstr.) (Rus)

SURGERY

Aortoduodenal fistula reconstructed with autogenous tissue. Case report. Lundbom J, et al. **Acta Chir Scand** 1989 Oct; 155(10):545–7
Surgical management of duodenal diverticula. Trondsen E, et al. **Acta Chir Scand** 1990 May;156(5):383–6
Surgical treatment of duodenal diverticula associated with symptomatic bacterial overgrowth. Breen KJ, et al. **Aust N Z J Surg** 1989 Oct;59(10):819–21
Combined internal and external biliary fistulae treated by percutaneous cholecystlithotomy. Davies MG, et al. **Br J Surg** 1989 Dec;76(12):1258
Recurrent aorto–duodenal fistula: a final solution? England DW, et al. **Eur J Vasc Surg** 1990 Aug;4(4):427–9
Recurrent graft–enteric fistulae. Sørensen S, et al. **Eur J Vasc Surg** 1989 Dec;3(6):583–5
Right paraduodenal hernia in childhood: a case report. Dengler WC, et al. **J Pediatr Surg** 1989 Nov;24(11):1153–4
[Pyeloduodenal fistula. Apropos of a new case] Hode E, et al. **J Chir (Paris)** 1990 May;127(5):281–5 (Eng. Abstr.) (Fre)
[Spontaneous bilio–digestive fistula of lithiasic origin] Marzocca G, et al. **Minerva Chir** 1990 Feb;45(3–4):177–81 (20 ref.) (Eng. Abstr.) (Ita)
[Hemorrhagic juxtapapillary duodenal ulcer with choledochal and Wirsung's duct stenosis and duodenojejunal fistula following biliojejunal en–Y diversion. The surgical solution] Funariu G, et al. **Rev Chir [Chir]** 1989 Jul–Aug;38(4):291–8 (Eng. Abstr.) (Rum)
[Surgical tactics in ulcerous pyloroduodenal stenosis] Myshkin KI, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):3–9 (Eng. Abstr.) (Rus)
[Combined operations in diseases of the stomach and duodenum] Uspenskiĭ LV, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):60–6 (Eng. Abstr.) (Rus)
[The Roux syndrome and its clinical significance] Saenko VF, et al. **Klin Khir** 1989;(8):19–21 (Eng. Abstr.) (Rus)
[A treatment method of duodenal diverticula] Agzamkhodzhaev SM, et al. **Vestn Khir** 1990 Feb;

144(2):105–6 (Rus)
[Surgical choices in peptic ulcer associated with duodenal diverticula] Bugaev AI, et al. **Vestn Khir** 1990 Jan; 144(1):37–9 (Eng. Abstr.) (Rus)
[Results of truncal and selective proximal vagotomies combined with stomach–draining surgery in ulcer–related pyloro–duodenal stenosis] Pantsyrev IuM, et al. **Vestn Khir** 1989 Aug;144(8):12–6 (Eng. Abstr.) (Rus)
[Enteral tube feeding of patients] Romanenko NIa, et al. **Vestn Khir** 1989 Jul;143(7):110–1 (Rus)
[Results of exclusion of the duodenum in diverticulosis] Zemlianol AG, et al. **Vestn Khir** 1990 Feb;144(2):99–103 (Rus)
[Spontaneous biliodigestive fistula] Palomar de Luis M, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):33–8 (30 ref.) (Eng. Abstr.) (Spa)

THERAPY

Dieulafoy's lesion treated by heater probe [letter] Golding MI, et al. **Am J Gastroenterol** 1990 Sep;85(9):1201–2
Treatment of postoperative duodenal fistulae by transparietal abdominal endoscopic intubation. Bloch P, et al. **Surg Endosc** 1989;3(3):167–9
[Transcatheter arterial embolization in the management of duodenal bleeding] Okazaki M, et al. **Rinsho Hoshasen** 1990 Mar;35(3):331–5 (Eng. Abstr.) (Jpn)

VETERINARY

What is your diagnosis? Duodenal obstruction. Downs MO, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):119–20
Duodenal perforation and abdominal abscess in a cow. Weaver AD. **J Am Vet Med Assoc** 1989 Dec 1; 195(11):1603–5

DUODENAL NEOPLASMS

Primary adenocarcinoma of duodenum [letter] Mohandas KM, et al. **Indian J Gastroenterol** 1989 Oct;8(4):301
[Adenocarcinoma of the duodenum: apropos of a case and review of the literature] Cherif A, et al. **Tunis Med** 1990 May;68(5):381–4 (9 ref.) (Eng. Abstr.) (Fre)
[Gastric and duodenal villous tumor: new diagnostic and therapeutic possibilities] Carella G, et al. **Clin Ter** 1990 Jun 15;133(5):309–14 (35 ref.) (Eng. Abstr.) (Ita)
[Frequency and clinical significance of ectopic pancreas] Masi C, et al. **Minerva Chir** 1990 Jan;45(1–2):5–10 (31 ref.) (Eng. Abstr.) (Ita)
[A primary malignant melanoma of the small intestine] Yashige H, et al. **Gan No Rinsho** 1990 Jul;36(8):955–8 (Eng. Abstr.) (Jpn)
[2 cases of duodenal cancer] Pavlii LI, et al. **Klin Khir** 1990; (5):43–4 (Rus)
[Rare malignant tumors of the pancreas and duodenum] Radević B, et al. **Acta Chir Iugosl** 1989;36 Suppl 1:164–6 (Ser)

ANALYSIS

Mucin histochemistry of virus–induced duodenal adenomas in guinea fowl. Toshkov I, et al. **J Cancer Res Clin Oncol** 1990;116(1):38–44

BLOOD

Zollinger–Ellison syndrome in a patient with normal screening gastrin level. Yanda RJ, et al. **Dig Dis Sci** 1989 Dec;34(12):1929–32

CHEMICALLY INDUCED

Duodenal carcinoid tumour in a patient with rheumatoid arthritis receiving long term ranitidine treatment. Duane PD, et al. **BMJ** 1990 Jan 13;300(6717):124–5
Effect of flurbiprofen and 16,16–dimethyl prostaglandin E2 on gastrointestinal tumorigenesis induced by N–methyl–N'–nitro–N–nitrosoguanidine in rats: glandular epithelium of stomach and duodenum. Lehnert T, et al. **Cancer Res** 1990 Jan 15;50(2):381–4

COMPLICATIONS

Occult blood loss from small bowel tumours. Case report. Chen TF, et al. **Acta Chir Scand** 1990 Jun–Jul; 156(6–7):499–501
A paraprosthetic–enteric fistula associated with a duodenal tumor. Dachs R, et al. **Ann Vasc Surg** 1990 Jan;4(1):65–8
Pancreaticoduodenectomy for bleeding periampullary tumors. Gold MS, et al. **Arch Surg** 1990 May;125(5):675–7
Von Recklinghausen neurofibromatosis with carcinoid tumor and submucous leiomyomas of the duodenum. Fernández MT, et al. **Neurofibromatosis** 1988;1(5–6):294–8
Zollinger–Ellison syndrome, duodenal carcinoid (gastrinoma), and hyperthyroidism. Theile R, et al. **Virchows Arch [A]** 1989;415(6):577–8
[Malignant transformation of ectopic pancreas. An unusual cause of acquired duodenal stenosis with cholestasis in a 26–year–old patient] Franke U, et al. **Internist (Berlin)** 1989 Aug;30(8):525–7 (Ger)
[Adenocarcinoma of the duodenum associated with skin neurofibromatosis and Caroli's disease] Del Vecchio R, et al. **Minerva Chir** 1989 Dec 31;44(23–24):2421–6 (Eng. Abstr.) (Ita)
[Acute unrestrainable digestive hemorrhage caused by primary neurogenic tumor of the duodenum] Pompilio E, et al. **Minerva Chir** 1989 Oct 31;44(20):2207–11 (Eng. Abstr.) (Ita)
[Duodenal cancer complicated by intestinal obstruction] Mun NV, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):116–7 (Rus)
[Complications of angiofollicular lymphoma of the duodenum] Reznikov AT. **Khirurgiia (Mosk)** 1990 Apr; (4):131–2 (Rus)
[Duodenal neurosarcoma as a cause of recurrent intestinal hemorrhage] Demirtasheva NG, et al. **Klin Khir** 1990;(5):44 (Rus)
[Duodenal neurofibroma as a cause of bleeding] Ivachev AS, et al. **Klin Khir** 1990;(5):44–5 (Rus)
[Fibroma of the small intestine complicated by profuse hemorrhage] Ploshchanskii VV, et al. **Klin Khir** 1990;(5):46 (Rus)
[Malignant strictures of the bile ducts] Blagovidov DF, et al. **Klin Med (Mosk)** 1989 Oct;67(10):23–8 (31 ref.) (Rus)
[Acute pancreatitis associated with duodenal immunoblastic sarcoma and upper digestive hemorrhage] Carballo Alvarez LF, et al. **Rev Esp Enferm Apar Dig** 1989 Oct;76(4):389–91 (13 ref.) (Eng. Abstr.) (Spa)

DIAGNOSIS

Profound spatial clustering of polyps in individuals with multiple nonmalignant polyps of the stomach and duodenal bulb: a combined endoscopic and radiographic study. Cappell MS. **Am J Gastroenterol** 1990 Aug;85(8):953–8
Diagnosis of peripapillary carcinoma: endoscopic findings. Takeda Y, et al. **Biomed Pharmacother** 1989;43(6):439–46 (18 ref.)
Villous adenoma of duodenum [letter] Shah P, et al. **Indian J Gastroenterol** 1989 Oct;8(4):303–4
Bleeding duodenal leiomyoma. Edelman MA, et al. **Mt Sinai J Med** 1990 Jan;57(1):37–9
Duodenal schwannoma. Meynen P, et al. **ROFO** 1989 Nov; 151(5):621–2
[Primary adenocarcinoma of the duodenum] Zwaan M, et al. **Internist (Berl)** 1990 Apr;31(4):294–7 (Ger)
[Malignant somatostatinoma—diagnosis after 6 years] Schaller P, et al. **Leber Magen Darm** 1990 May;20(3):152–6 (Eng. Abstr.) (Ger)
[Schwannoma of the 2d portion of the duodenum: the US and CT aspects] Mellone C, et al. **Radiol Med (Torino)** 1990 Apr;79(4):406–8 (Ita)
[A case of leiomyoblastoma of the duodenum] Tokumoto K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Mar; 87(3):852–6 (Jpn)
[A case of huge duodenal leiomyosarcoma] Onodera H, et al. **Rinsho Hoshasen** 1989 Dec;34(13):1629–32 (Eng. Abstr.) (Jpn)
[Causes of errors in the diagnosis of small–intestinal tumors] Martynenko NG. **Vestn Khir** 1989 Apr;142(4):78–9 (Rus)
[Peutz–Jeghers syndrome in children] Zhukov MD, et al. **Vestn Khir** 1989 Dec;144(12):41–2 (Rus)

DRUG THERAPY

[Intratumoral injection of mitomycin for adenocarcinoma of the duodenum (letter)] Wagner A, et al. **Dtsch Med Wochenschr** 1990 May 11;115(19):757 (Ger)
[Biliary and pancreatic excretion of methotrexate (MTX) and 5–FU on the MTX/5–FU sequential therapy] Suda Y, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1357–63 (Eng. Abstr.) (Jpn)

ETHNOLOGY

Somatostatin–producing duodenal carcinoids in patients with von Recklinghausen's neurofibromatosis. A predilection for black patients. Burke AP, et al. **Cancer** 1990 Apr 1; 65(7):1591–5

ETIOLOGY

Mutagenicity of bile and duodenal adenomas in familial adenomatous polyposis. Spigelman AD, et al. **Br J Surg** 1990 Aug;77(8):878–81
[Adenocarcinoma of the small intestine in celiac disease. Case report and literature review] Marsch SC, et al. **Schweiz Med Wochenschr** 1990 Feb 3;120(5):135–41 (35 ref.) (Eng. Abstr.) (Ger)

GENETICS

Look at the duodenum in familial polyposis. Likier HM, et al. **Gastroenterology** 1990 Apr;98(4):1092–3
[A case of familial colonic polyposis with metachronous duodenal cancer] Müller H, et al. **Med Klin** 1990 Mar;85 Suppl 1:144–6 (Ger)

HISTORY

The demise of the last emperor: its influence on Japanese society from a thanatological viewpoint. Takahashi Y. **Crisis** 1989 Oct;10(2):169–78

PATHOLOGY

Nesidioblastosis arising from heterotopic pancreas and presenting with hypertension. A clinical, immunohistochemical and ultrastructural study. Risaliti A, et al. **Ann Chir** 1989;43(6):459–63; discussion 463–4
Carcinoid tumors of the duodenum. A clinicopathologic study of 99 cases. Burke AP, et al. **Arch Pathol Lab Med** 1990 Jul;114(7):700–4
Brunner's gland adenoma. An unusual cause of intestinal bleeding. De Castella H. **Br J Surg** 1966 Feb;53(2):153–6 (41 ref.)
Duodenal and peri–ampullary adenomas. Qizilbash AH. **Curr Top Pathol** 1990;81:77–90 (32 ref.)
Endocrine tumors of the duodenum and upper jejunum. A study of 33 cases with clinico–pathological characteristics and hormone content. Capella C, et al. **Hepatogastroenterology** 1990 Apr;37(2):247–52
Adenocarcinoid (goblet cell carcinoid) of the duodenum presenting as gastric outlet obstruction [letter] Burke A, et al. **Hum Pathol** 1990 Feb;21(2):238–9
Neurofibromatosis associated with periampullary carcinoid tumour of duodenum [letter] Bapat RD, et al. **Indian J Gastroenterol** 1989 Oct;8(4):306–7
Gastrinomas in MEN–I [letter] Passaro E Jr, et al. **N Engl J Med** 1990 Aug 2;323(5):349–50
Gastrinomas in the duodenums of patients with multiple endocrine neoplasia type 1 and the Zollinger–Ellison syndrome. Pipeleers–Marichal M, et al. **N Engl J Med** 1990 Mar 15;322(11):723–7
A case of concomitant association of duodenal carcinoma and jejunal carcinoma with cerebral metastasis. Miyamoto M, et al. **Nippon Geka Hokan** 1989 Jul 1;58(4):360–7
Are "aberrant nodal gastrinomas" pathogenetically similar to "lateral aberrant thyroid" nodules? Friesen SR. **Surgery** 1990 Feb;107(2):236–8
Duodenal hemangioendothelioma: report of a case. Sheen–Chen SM, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Apr;88(4):413–4
Duodenal gangliocytic paraganglioma. Report of a case and review of the literature. Barbareschi M, et al. **Virchows Arch [A]** 1989;416(1):81–9 (57 ref.)
Studies into gastrinomas and combined carcinomatous carcinoid tumors. Optical light– and electron microscopy and immunohistochemistry. Lászik Z, et al. **Zentralbl Allg Pathol** 1989;135(7):657–65
[Endoscopic sonography for staging of duodenal cancer] Lorenz R, et al. **Bildgebung** 1987–89;56(3):97–100 (Eng. Abstr.) (Ger)
[Adenoma–carcinoma sequence in the duodenum. A case report] Meier H, et al. **Chirurg** 1990 Apr;61(4):333–5 (Ger)
[Tubulo–villous adenoma of the duodenum: case report and review of the literature] Dupont–Lampert V, et al. **Schweiz Med Wochenschr** 1989 Jul 29;119(30):1057–9 (18 ref.) (Eng. Abstr.) (Ger)
[Giant adenoma of Brunner's glands] Meier P, et al. **Schweiz Med Wochenschr** 1989 Nov 4;119(44):1555–9 (Eng. Abstr.) (Ger)
[Gangliocytic paraganglioma of the duodenum. Case report with immunocytochemical characterization] Barten M, et al. **Zentralbl Allg Pathol** 1990;136(1–2):181–7 (Eng. Abstr.) (Ger)
[A case of duodenal melanoma] Galakhin KA, et al. **Vrach Delo** 1990 Feb;(2):45–6 (Rus)
[Primary tumors of the small intestine] Del Pino Porres FJ, et al. **Rev Esp Enferm Apar Dig** 1989 Nov;76(5):437–42 (Eng. Abstr.) (Spa)
[Primary duodenal adenocarcinoma; apropos of a case] Mejía Molina P, et al. **Rev Esp Enferm Apar Dig** 1989 Jul; 76(1):75–7 (Eng. Abstr.) (Spa)

RADIOGRAPHY

Duodenal pseudotumour: a silent impacted common bile duct calculus. Finch PJ, et al. **Postgrad Med J** 1989 Oct; 65(768):794–6
Case of the season. Malignant neurogenic tumor of duodenum and pancreas. Coombs RJ. **Semin Roentgenol** 1990 Apr; 25(2):127–9
[Computerized tomography image of entero–enteric invagination] Melzer G, et al. **Digitale Bilddiagn** 1989 Dec; 9(4):147–9 (Eng. Abstr.) (Ger)
[Hamartomatous polyps of Brunner's gland. Presentation of 2 cases. Review of the literature] De Angelis G, et al. **Minerva Chir** 1989 Jul 31;44(13–14):1761–6 (30 ref.) (Eng. Abstr.) (Ita)

SECONDARY

Metastatic malignant melanoma of upper gastrointestinal tract. Shen MT, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Apr;45(4):276–9
[Microvascular changes in the pyloric ring and duodenal invasion in carcinoma of the gastric antrum] Wang BZ. **Chung Hua Wai Ko Tsa Chih** 1989 Jul;27(7):404–6, 444 (Eng. Abstr.) (Chi)
[Intestinal manifestations of renal cell cancer (clinical conference)] Tromm A, et al. **Med Klin** 1990 Jan 15; 85(1):28–31 (Ger)
[Unique duodenal metastasis of malignant melanoma: diagnostic–therapeutic observations on a case] Petromilli G, et al. **G Chir** 1989 Oct;10(10):572–5 (38 ref.) (Eng. Abstr.) (Ita)

SECRETION

[Gastrinoma and carcinoma–carcinoid tumor causing Zollinger–Ellison syndrome] Lászik Z, et al. **Morphol Igazsagugyi Orv Sz** 1990 Apr;30(2):106–16 (Eng. Abstr.) (Hun)

SURGERY

Gastrinoma excision for cure. A prospective analysis. Howard TJ, et al. **Ann Surg** 1990 Jan;211(1):9–14

Experience with 647 consecutive tumors of the duodenum, ampulla, head of the pancreas, and distal common bile duct. Michelassi F, et al. **Ann Surg** 1989 Oct;210(4):544–54; discussion 554–6 (68 ref.)

Duodenal villous tumors. Bjork KJ, et al. **Arch Surg** 1990 Aug;125(8):961–5

Duodenectomy without pancreatectomy for extensive benign villous adenoma of the duodenum. Vallance S. **Aust N Z J Surg** 1990 Apr;60(4):311–4

A villous adenoma of the distal duodenum treated by laser therapy [letter; comment] Riard PH, et al. **Dig Dis Sci** 1990 May;35(5):668 Comment on: Dig Dis Sci 1989 Sep;34(9):1466–7.

Selective surgical management of correctable hypergastrinemia. Delcore R Jr, et al. **Surgery** 1989 Dec; 106(6):1094–100; discussion 1100–2

Long survival of a woman with a huge leiomyosarcoma of the duodenum after pancreaticoduodenectomy and transverse colectomy: a case report. Watanabe A, et al. **Surgery** 1990 Jul;108(1):110–3

Haemangiomas of the gastrointestinal tract in children. Basaklar AC. **Z Kinderchir** 1990 Apr;45(2):114–6

[Duodenal leiomyoblastoma. Apropos of a new case and review of the literature] Lucas S, et al. **J Chir (Paris)** 1990 May;127(5):262–70 (27 ref.) (Eng. Abstr.) (Fre)

[Bleeding duodenal lipoma—a rare finding] Hamperl WD, et al. **Chirurg** 1990 Apr;61(4):331–2 (Ger)

[Cancer of the small intestine] Zornig C, et al. **Chirurg** 1989 Sep;60(9):603–6 (Eng. Abstr.) (Ger)

[Whipple's duodenopancreatectomy] Graf D, et al. **Schweiz Med Wochenschr** 1990 Apr 7;120(14):518–21 (Eng. Abstr.) (Ger)

[Duodenopancreatectomy as the treatment of primary duodenal cancer] Rintala E, et al. **Zentralbl Chir** 1989; 114(14):919–23 (Eng. Abstr.) (Ger)

[Carcinoid tumor of the duodenum. Presentation of a clinical case] Ghisotti E, et al. **Minerva Chir** 1990 Mar 15; 45(5):315–8 (Ita)

[Surgical treatment of cancer of the duodenum] Shapoval'ants SG, et al. **Khirurgiia (Mosk)** 1990 Apr; (4):129–31 (Rus)

[Gastrectomy with pancreatoduodenal resection in patients with cancer of the stomach] Kasatkin VF, et al. **Vestn Khir** 1989 Dec;144(12):27–8 (Rus)

[Immediate and late results of pancreatoduodenal resection] Kuznetsov VI, et al. **Vestn Khir** 1989 Aug;144(8):35–8 (Eng. Abstr.) (Rus)

[Changes and risks in gastroduodenal surgery] Olejník J, et al. **Rozhl Chir** 1990 Mar;69(3):163–9 (Eng. Abstr.) (Slo)

[Villous adenoma of the duodenum. Presentation of a case] Benito C, et al. **Rev Esp Enferm Dig** 1990 May;77(5):357–9 (Eng. Abstr.) (Spa)

[Nutritional status and cephalic duodenopancreatectomy in neoplasm treatment] Capellá G, et al. **Rev Esp Enferm Dig** 1990 May;77(5):341–4 (Eng. Abstr.) (Spa)

VETERINARY

Leiomyosarcoma of the duodenum in two horses. Mair TS, et al. **J Comp Pathol** 1990 Jan;102(1):119–23

DUODENAL OBSTRUCTION

[Vascular compression syndrome of the duodenum. Diagnostic and therapeutic update] Cogliandolo A, et al. **Ann Ital Chir** 1989 Nov–Dec;60(6):531–5 (Eng. Abstr.) (Ita)

[Diagnosis and treatment of chronic duodenal obstruction] Ibadov Ilu, et al. **Klin Khir** 1990;(5):51–2 (Rus)

COMPLICATIONS

Acute intestinal failure secondary to simultaneous occlusion of the coeliac axis and the superior mesenteric artery. Gillett ER, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):166–7

[Chronic duodenal compression by the mesenteric artery complicated by mechanical jaundice] Gushcha AL, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):82–3 (Rus)

CONGENITAL

Familial duodenal atresia: a report of two families and review. Best LG, et al. **Am J Med Genet** 1989 Nov;34(3):442–4 (15 ref.)

Systemic candidiasis with DIC and candida endophthalmitis in a postoperative neonate. Doi O, et al. **Aust Paediatr J** 1989 Dec;25(6):372–5 (22 ref.)

Prenatal diagnosis of duodenal atresia at 30 weeks. Balakumar K. **Indian Pediatr** 1989 Sep;26(9):950–2

The neonatal duodenal windsock web—a case report and description of a new technique for its operative excision. Horgan PG, et al. **Ir J Med Sci** 1990 Apr;159(4):110

Pancreatic lipomatosis and duodenal stenosis or atresia in children. Dupont C, et al. **J Pediatr** 1989 Oct;115(4):603–5

Congenital duodenal obstruction: the impact of an antenatal diagnosis. Hancock BJ, et al. **J Pediatr Surg** 1989 Oct; 24(10):1027–31 (25 ref.)

A case of VACTEL syndrome with antenatally diagnosed duodenal atresia. Kawana T, et al. **J Pediatr Surg** 1989 Nov;24(11):1158–60

Congenital intrinsic duodenal obstruction: problems in the diagnosis and management [published erratum appears in J Pediatr Surg 1990 Jun;25(6):706] al-Salem AH, et al. **J Pediatr Surg** 1989 Dec;24(12):1247–9

[Duodenal atresia. Experiences with 145 patients] Schier F, et al. **Zentralbl Chir** 1990;115(3):135–42 (Eng. Abstr.) (Ger)

[Duodenal atresia in a child with Down's syndrome] Karkowski MK. **Wiad Lek** 1990 Feb 1–15;43(3–4):146–9 (Eng. Abstr.) (Pol)

[Ladd's bridle as a cause of vomiting in the neonatal period (case report)] Cajić D, et al. **Med Arh** 1987;41(6):347–50 (Eng. Abstr.) (Scr)

DIAGNOSIS

Superior mesenteric artery syndrome in pediatric orthopedic patients. Hutchinson DT, et al. **Clin Orthop** 1990 Jan; (250):250–7

[Megaduodenum due to aortomesenteric shunt] Chifan M, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep; 93(3):599–601 (Eng. Abstr.) (Rum)

[Reply to Dr. V.I. Nikol'skii's open letter to the Editor ("Khirurgiia, No. 6, 1989) (letter)] Vitebskii IaD. **Khirurgiia (Mosk)** 1990 Mar;(3):81–2 (Rus)

[Bouveret's syndrome. Diagnostic and therapeutic considerations apropos of a new case] Cruz Vicente JM, et al. **Rev Esp Enferm Apar Dig** 1989 Nov;76(5):499–501 (Eng. Abstr.) (Spa)

DRUG THERAPY

Failure of single night-time dose of H2-receptor antagonists in the treatment of duodenal ulcer patients with bulbar stenosis. Materia A, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1462–3

ETIOLOGY

Eosinophilic gastroenteritis presenting with biliary and partial duodenal obstruction. Farahvash MJ, et al. **Am J Gastroenterol** 1990 Aug;85(8):1022–4

Duodenal obstruction: a complication of percutaneous endoscopic gastrostomy tube migration. McGovern R, et al. **Am J Gastroenterol** 1990 Aug;85(8):1037–8

Ultrasonic detection of a retroperitoneal haematoma causing duodenal obstruction following ureterolithotomy. Ritchie DA, et al. **Br J Radiol** 1990 Sep;63(753):726–8

Duplication of the stomach associated with non-rotation of the gut. Klidjian A, et al. **Br J Surg** 1967 Aug;54(8):731–5

Sarcoidosis causing duodenal obstruction. Case report and review of gastrointestinal manifestations. Stampfl DA, et al. **Dig Dis Sci** 1990 Apr;35(4):526–32 (74 ref.)

Duodenal obstruction [letter] Shah P, et al. **Dis Colon Rectum** 1990 Feb;33(2):168

Transpyloric prolapse of a pedunculated polypoid gastric carcinoma. Arai O, et al. **Gastroenterol Jpn** 1990 Apr; 25(2):249–52 (5 ref.)

Acute pouch obstruction after vertical banded gastroplasty. Bowersox JC, et al. **Gastrointest Endosc** 1990 Mar–Apr; 36(2):146–7

Venous, biliary, and duodenal obstruction in chronic pancreatitis. Rattner DW, et al. **Hepatogastroenterology** 1990 Jun;37(3):301–6 (40 ref.)

Ultrasound diagnosis of fetal annular pancreas. Pachl A, et al. **J Perinat Med** 1989;17(5):361–4

Superior mesenteric artery syndrome after end-to-side aortofemoral bypass [letter] Blebea J, et al. **J Vasc Surg** 1990 May;11(5):726–7

Duodenal obstruction caused by acute appendicitis with intestinal malrotation in an adult. A case report. Ueo H, et al. **Jpn J Surg** 1990 May;20(3):346–50

Treatment of chronic pancreatitis complicated by obstruction of the common bile duct or duodenum. Frey CF, et al. **World J Surg** 1990 Jan–Feb;14(1):59–69 (43 ref.)

[Mechanical obstruction of the duodenum after surgery of the abdominal aorta] Chaillou P, et al. **J Chir (Paris)** 1989 Nov;126(11):596–7 (Eng. Abstr.) (Fre)

[A case of high intestinal obstruction caused by mycotic bezoar of the duodenum] Goszcz A, et al. **Pol Tyg Lek** 1989 Apr 10–17;44(15–16):367–9 (Eng. Abstr.) (Pol)

[Intestinal obstruction caused by a gallstone associated with mucocele of the appendix] Begezhanov BA, et al. **Klin Khir** 1990;(4):69–70 (Rus)

[30-year presence of a foreign body in the abdominal cavity causing acute intestinal obstruction] Bushuev VV, et al. **Klin Khir** 1990;(4):67 (Rus)

[Invagination of the small intestine after perforated stomach ulcer repair] Lavrov AS, et al. **Klin Khir** 1990;(4):66 (Rus)

[Dynamic intestinal obstruction caused by incarcerated gastric polyp in the pylorus] Sterniuk IuM, et al. **Klin Khir** 1989;(10):68 (Rus)

[Acute postoperative disorders of gastric emptying] Zemskov VS, et al. **Klin Khir** 1989;(8):73–5 (Rus)

[Mirror bleeding ulcers and obstruction of the duodenum with a foreign body] Abasov BKh, et al. **Vestn Khir** 1989 Jul;143(7):59–60 (Rus)

PATHOLOGY

Solitary intestinal fibromatosis: a rare cause of neonatal obstruction. Canioni D, et al. **Pediatr Pathol** 1989; 9(6):719–24

PREVENTION & CONTROL

[Prevention of duodenal hypertension after gastrectomy] Tatiahvili GG, et al. **Vestn Khir** 1990 Feb;144(2):24–7 (Eng. Abstr.) (Rus)

SURGERY

Role of highly selective vagotomy and duodenoplasty in the treatment of postbulbar duodenal obstruction. Bowden TA Jr, et al. **Am J Surg** 1990 Jan;159(1):15–9; discussion 19–20

[The place of selective proximal vagotomy in complicated duodenal ulcers] Armbruster C, et al. **Wien Klin Wochenschr** 1989 Sep 29;101(18):615–7 (Eng. Abstr.) (Ger)

[2 cases of duodenal vascular compression syndrome] Battilana A, et al. **Minerva Med** 1989 Aug;80(8):815–20 (Ita)

[Results of the surgical treatment of patients with chronic duodenal obstruction] Dudenko FI, et al. **Klin Khir** 1989; (8):28–30 (Eng. Abstr.) (Rus)

[Surgical treatment of chronic duodenal obstruction after radical operations on the stomach in peptic ulcer] Repin VN, et al. **Klin Khir** 1989;(8):30–2 (Eng. Abstr.) (Rus)

THERAPY

A new technique for direct percutaneous jejunostomy tube placement. Rosenblum J, et al. **Am J Gastroenterol** 1990 Sep;85(9):1165–7

[Conservative treatment of Bouveret's syndrome] Karpov IB, et al. **Vestn Khir** 1989 Jul;143(7):62–3 (Rus)

DUODENAL PAPILLA, MAJOR see **VATER'S AMPULLA**

DUODENAL PAPILLA, MINOR see **PANCREATIC DUCTS**

DUODENAL ULCER

Abstracts of the Second International Symposium on Experimental and New Therapeutic Approaches to Ulcer Disease. A satellite meeting of the 11th International Congress of Pharmacology. July 10–12, 1990, Pécs, Hungary. **Dig Dis Sci** 1990 Aug;35(8):1025–44

Perforated duodenal ulcer in elderly patients. O'Riordain DS, et al. **J R Coll Surg Edinb** 1990 Apr;35(2):93–4

BLOOD

Effect of intermittent administration of omeprazole on serum pepsinogens in duodenal ulcer patients and healthy volunteers. Biemond I, et al. **Br J Clin Pharmacol** 1990 Apr;29(4):465–72

Mutual correlation between levels of plasma beta-endorphin, bombesin and pancreatic polypeptide in healthy subjects and ulcer patients. Zižkovský V, et al. **Endocrinol Exp** 1990 Mar;24(1–2):205–9

Effect of ABO blood group and secretor status on the frequency of Helicobacter pylori antibodies. Höök-Nikanne J, et al. **Scand J Gastroenterol** 1990 Aug; 25(8):815–8

Increased serum pepsinogen I and recurrence of duodenal ulcer. Sumii K, et al. **Scand J Gastroenterol** 1989 Dec; 24(10):1200–4

[Duodenal ulcer and the insulin releasing level] Si JM, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):523–5, 571 (Eng. Abstr.) (Chi)

[Basal and postprandial blood gastrin in peptic ulcer. The physiopathological considerations in relation to different locations of the lesion] Gottardello L, et al. **Minerva Med** 1989 Dec;80(12):1293–9 (Eng. Abstr.) (Ita)

[Blood levels of pituitary gonadotropins, sex hormones, gastrin and cAMP in duodenal ulcer] Bodnia EI, et al. **Klin Med (Mosk)** 1989 Sep;67(9):81–4 (Eng. Abstr.) (Rus)

[Serum gastrin levels in various diseases of the digestive organs] Chirkov IuV. **Sov Med** 1989;(9):119–20 (Rus)

[The effect of free blood histamine on the gastric acid-forming function in peptic ulcer patients] Masevich TsG, et al. **Vrach Delo** 1990 Feb;(2):39–41 (Eng. Abstr.) (Rus)

[Gonadotropins and sex steroid hormones in women with exacerbated duodenal peptic ulcer] Orlovskii VF, et al. **Vrach Delo** 1989 Aug;(8):64–6 (Eng. Abstr.) (Rus)

[The hormone level of patients with peptic ulcer being treated with L-dopa] Tretiak NG. **Vrach Delo** 1989 Jul; (7):21–3 (Eng. Abstr.) (Rus)

[Gastrin in gastric and duodenal ulcer disease] Gribajčević M, et al. **Med Arh** 1985;39(5):177–81 (Eng. Abstr.) (Scr)

CHEMICALLY INDUCED

Selective decrease of duodenal phosphoprotein phosphatase activity is a general property of duodenal ulcerogens. Japundžić I, et al. **Acta Physiol Hung** 1989;73(2–3):225–32

Ulceration of the small bowel associated with thiazide and potassium therapy. Report of nine cases. Tyson WT Jr, et al. **Am Surg** 1966 Mar;32(3):161–4

Non-steroidal anti-inflammatory drugs and peptic ulcers [published erratum appears in BMJ 1990 Mar 24;300(6727):764] [see comments] Hawkey CJ. **BMJ** 1990 Feb 3;300(6720):278–84 (56 ref.) Comment in: BMJ 1990 Mar 10;300(6725):681. Comment in: BMJ 1990 Mar

24;300(6727):814–6. Comment in: BMJ 1990 Mar 31;300(6728):875–6.
Risk of acute upper gastrointestinal bleeding in patients with ulcerative disease and treatment with non-steroidal anti-inflammatory drugs (NSAIDs). Results from the Comprehensive Hospital Drug Monitoring Berne (CHDM). Stodolnik E, et al. **Eur J Clin Pharmacol** 1990; 38(1):31–5
Cysteamine-induced duodenal ulcer and the hepatoduodenal branch of the vagus nerve. Kato K, et al. **Gastroenterol Jpn** 1990 Jun;25(3):314–9
MPTP-induced duodenal ulcers in rat. Prevention by reuptake blockers for serotonin and norepinephrine, but not dopamine. Keshavarzian A, et al. **Gastroenterology** 1990 Mar;98(3):554–60
Gastroduodenal ulcer incidence in patients with venous thromboembolism. Monreal M, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):386–8
Cushing's ulcer as a consequence of adrenocorticotropic hormone administration for infantile spasms. Glauser TA, et al. **J Child Neurol** 1990 Apr;5(2):111–3
The effect of chronic aspirin use on duodenal and gastric ulcer hospitalizations. Kurata JH, et al. **J Clin Gastroenterol** 1990 Jun;12(3):260–6
The relationship of intraduodenal pH and delayed gastric emptying in duodenal ulceration induced by mepirizole or cysteamine in rats. Tanaka H, et al. **Jpn J Pharmacol** 1989 Dec;51(4):483–92
Changes in levels of mucosal glycoprotein on cysteamine-induced duodenal ulcers in rats. Koga K, et al. **Scand J Gastroenterol Suppl** 1989;162:120–3
Epidermal growth factor inhibits cysteamine-induced duodenal ulcers in rats. Kunizaki C, et al. **Scand J Gastroenterol Suppl** 1989;162:218–21
A new model of duodenal ulcers induced in rats by diethyldithiocarbamate, a superoxide dismutase inhibitor. Niida H, et al. **Scand J Gastroenterol Suppl** 1989;162:116–9
Effects of the duodenal ulcerogens, mepirizole and cysteamine, on gastric motility and emptying in rats. Tanaka H, et al. **Scand J Gastroenterol Suppl** 1989; 162:104–7
[Possible mechanisms of diethyldithiocarbamate-induced duodenal mucosal damage in rats] Takamasu M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2189–95 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

[Atypical forms of duodenal ulcer] De Arzua E, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):555–7 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Endoscopic sclerosis in the treatment of bleeding peptic ulcers with a visible vessel. Panés J, et al. **Am J Gastroenterol** 1990 Mar;85(3):252–4
APACHE II in emergency operations for perforated ulcers. Schein M, et al. **Am J Surg** 1990 Mar;159(3):309–13
Changing patterns in perforated peptic ulcer disease. Gunshefski L, et al. **Am Surg** 1990 Apr;56(4):270–4 (25 ref.)
Bleeding duodenal ulcer. A prospective evaluation of risk factors for rebleeding and death. Branicki FJ, et al. **Ann Surg** 1990 Apr;211(4):411–8
Survival following perforation of peptic ulcer. Englund R, et al. **Aust N Z J Surg** 1990 Oct;60(10):795–800
Antral Helicobacter pylori, hypergastrinaemia, and duodenal ulcers: effect of eradicating the organism. Levi S, et al. **BMJ** 1989 Dec 16;299(6714):1504–5
Mortality in patients with bleeding peptic ulcer when those aged 60 or over are operated on early. Wheatley KE, et al. **BMJ** 1990 Aug 4;301(6746):272
Prediction of rebleeding in peptic ulcers by visual stigmata and endoscopic Doppler ultrasound criteria. Fullarton GM, et al. **Endoscopy** 1990 Mar;22(2):68–71
Randomized comparison of Nd YAG laser, heater probe, and no endoscopic therapy for bleeding peptic ulcers. Matthewson K, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1239–44
Fibrin glue: is it practical in the treatment of acute upper gastrointestinal bleed? [letter] Valenzuela GA, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):77–8
Distal common bile duct stenosis secondary to benign duodenal ulceration: report of a case. Van Steenbergen W, et al. **Gastrointest Radiol** 1990 Summer;15(3):215–7
Helicobacter associated gastritis in patients with duodenal ulcer: the influence of various drugs [letter; comment] Archimandritis AJ, et al. **Gut** 1990 Apr;31(4):481–2 Comment on: Gut 1989 Sep;30(9):1206–12.
Duodenal ulcer in sickle cell disease [letter; comment] de Caestecker JS, et al. **Gut** 1989 Nov;30(11):1657–8 Comment on: Gut 1989 May;30(5):569–72.
Obstructive jaundice due to chronic duodenal ulcer disease [letter] Shah P, et al. **Indian J Gastroenterol** 1990 Jan; 9(1):97
The acute abdomen in amoebic liver abscess [letter] Gupta R, et al. **J Assoc Physicians India** 1989 Dec;37(12):796–7
Duodenal ulcer in sickle cell anemia. Rao S, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):117–20 (18 ref.)
Conservative management of perforated peptic ulcer [letter; comment] Jones PF. **Lancet** 1990 Feb 3;335(8684):293–4 Comment on: Lancet 1989 Dec 16;2(8677):1429–30.
Duodenal ulceration into the cystic artery. Ford GA, et al. **Postgrad Med J** 1990 Feb;66(772):144–6
Non-steroidal anti-inflammatory drug ingestion: retrospective study of 272 bleeding or perforated peptic ulcers. Smedley FH, et al. **Postgrad Med J** 1989 Dec; 65(770):892–5
Extraluminal air bubble on computed tomography. Itoh H, et al. **Radiat Med** 1990 Jan–Feb;8(1):6–7
Pancreatoduodenal necrosis after endoscopic injection of cyanoacrylate to treat a bleeding duodenal ulcer: a case report. Vallieres E, et al. **Surgery** 1989 Nov;106(5):901–3
[Comparative studies of peptic ulcer in the active stage with and without hemorrhage] Dimitrov B, et al. **Vutr Boles** 1989;28(5):53–8 (Eng. Abstr.) **(Bul)**
[Therapeutic management of massive hemorrhage caused by gastroduodenal ulcer] Dancewicz R, et al. **J Chir (Paris)** 1989 Aug–Sep;126(8–9):485–6 (Eng. Abstr.) **(Fre)**
[Duodenal ulcer perforating into the free peritoneal cavity] Vayre P, et al. **J Chir (Paris)** 1989 Aug–Sep;126(8–9):461–2 (Eng. Abstr.) **(Fre)**
[Severe gastroduodenal ulcer hemorrhage. Treatment with endoscopic injections of an epinephrine solution] Bour B, et al. **Presse Med** 1989 Oct 7;18(31):1505–8 (Eng. Abstr.) **(Fre)**
["Wheeling-off" of the duodenum in gastric resection in hemorrhagic duodenal ulcer] Meyer C, et al. **Presse Med** 1989 Dec 2;18(40):1974–6 (Eng. Abstr.) **(Fre)**
[Treatment of perforated duodenal ulcer. Apropos of 74 cases] Oueslati A, et al. **Tunis Med** 1989 May;67(5):335–9 (Eng. Abstr.) **(Fre)**
[Anti H2 receptors and perforated peptic ulcer. Review of 442 cases] Mastroianni V, et al. **Minerva Chir** 1989 Nov 15;44(21):2259–62 (Eng. Abstr.) **(Ita)**
[Complications of gastroduodenal peptic ulcers] Vinci A, et al. **Minerva Chir** 1990 May 31;45(10):725–31 (Eng. Abstr.) **(Ita)**
[Gastric resection for ulcerous bleeding in the early period after reconstructive surgery of the mitral valve] Skopin II, et al. **Grudn Khir** 1989 Jul–Aug;(4):87–8 **(Rus)**
[Surgical treatment of bleeding gastroduodenal ulcers] Esperov BN, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):43–6 (Eng. Abstr.) **(Rus)**
[Duodenogastric reflux in patients with peptic ulcer] Fedorov AV, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):27–31 (Eng. Abstr.) **(Rus)**
[Treatment of peptic ulcer hemorrhage with leucine enkephalin analog dalargin] Georgadze AK, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):39–43 (Eng. Abstr.) **(Rus)**
[A method of diagnosis of disorders of gastric motor function in pyloroduodenal stenosis] Gladkikh VG, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):87–8 **(Rus)**
[Surgical tactics in peptic ulcer hemorrhage] Grinberg AA, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):81–4 (Eng. Abstr.) **(Rus)**
[Treatment of patients with gastrogenic tetany] Magomedov AG. **Khirurgiia (Mosk)** 1989 Oct;(10):37–40 (Eng. Abstr.) **(Rus)**
[Latent perforated gastroduodenal ulcers] Mitsura DI. **Khirurgiia (Mosk)** 1990 Mar;(3):35–9 (Eng. Abstr.) **(Rus)**
[Study of gastric APUD cells in gastroduodenal hemorrhage] Ratner GL, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):89–93 (Eng. Abstr.) **(Rus)**
[Results of the surgical treatment of perforated ulcer of the stomach and duodenum] Semenov VV, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):94–8 (Eng. Abstr.) **(Rus)**
[Individual active surgical tactics in acute gastroduodenal hemorrhage caused by peptic ulcer] Veligotskiĭ NN, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):88–91 (Eng. Abstr.) **(Rus)**
[Disputable problems in the treatment of acute peptic ulcer hemorrhage] Bratus' VD. **Klin Khir** 1990;(4):44–6 **(Rus)**
[Hemostasis and humoral immunity in patients with peptic ulcer hemorrhage] Esperov BN, et al. **Klin Khir** 1990; (4):12–4 (Eng. Abstr.) **(Rus)**
[Rare ulcers of the stomach and duodenum] Kalish IuI, et al. **Klin Khir** 1989;(8):76–7 **(Rus)**
[Lipid peroxidation and lysosomal enzyme activity in patients with acute gastrointestinal hemorrhage of peptic ulcer etiology] Kharaberiush VA, et al. **Klin Khir** 1990;(4):14–6 (Eng. Abstr.) **(Rus)**
[Surgical treatment of combined ulcers of the stomach and duodenum complicated by hemorrhage] Kharaberiush VA, et al. **Klin Khir** 1989;(8):76 **(Rus)**
[Intensive therapy of patients surgically treated in acute gastrointestinal hemorrhage of peptic ulcer etiology] Kharaberiush VA, et al. **Klin Khir** 1990;(4):37–9 (Eng. Abstr.) **(Rus)**
[Acute destructive appendicitis after repair of a perforated duodenal ulcer] Ostrovskiĭ VP, et al. **Klin Khir** 1990; (4):68–9 **(Rus)**
[Reconstructive surgery in ischemic heart disease and aortic arch syndrome associated with duodenal ulcer] Smorzhevskiĭ VI, et al. **Klin Khir** 1989;(10):61–2 **(Rus)**
[Evaluation of blood loss in acute gastrointestinal hemorrhage] Briskin BS, et al. **Sov Med** 1989;(6):94–7 **(Rus)**
[Characteristics of the course of peptic ulcer in polycythemia vera] Mednikov BI., et al. **Sov Med** 1990;(6):88–9 **(Rus)**
[Mirror bleeding ulcers and obstruction of the duodenum with a foreign body] Abasov BKh, et al. **Vestn Khir** 1989 Jul;143(7):59–60 **(Rus)**
[Cancer of the stomach associated with perforated duodenal ulcer and pyloric stenosis] Gausman BIa, et al. **Vestn Khir** 1989 Sep;143(9):53 **(Rus)**
[Ulcerous duodenal hemorrhage in a nursing infant following intestinal disinvagination] Golovanov IaS, et al. **Vestn Khir** 1989 Oct;143(10):60–1 **(Rus)**
[Massive duodenal hemorrhage on the day before labor] Gurevich AR, et al. **Vestn Khir** 1989 Sep;143(9):132–3 **(Rus)**
[A combination of perforated duodenal ulcer with other acute diseases of the abdominal organs] Khasanov AG, et al. **Vestn Khir** 1989 Oct;143(10):45–6 **(Rus)**
[A case of postoperative cholecystitis] Kisliakov VA. **Vestn Khir** 1990 Jan;144(1):71 **(Rus)**
[Various special problems of the treatment of acute peptic ulcer- induced gastrointestinal hemorrhage] Kurygin AA, et al. **Vestn Khir** 1989 May;142(5):12–5 (Eng. Abstr.) **(Rus)**
[The diagnosis and surgical procedure in perforated gastroduodenal ulcer] Magdiev TSh, et al. **Vestn Khir** 1989 Oct;143(10):17–20 (Eng. Abstr.) **(Rus)**
[Perforation associated with other complications of peptic ulcer] Mura'veva LA, et al. **Vestn Khir** 1989 Jul;143(7):58–9 **(Rus)**
[Vagotomy in perforated duodenal ulcers complicated by peritonitis] Shtrapov AA, et al. **Vestn Khir** 1989 Aug; 144(8):16–20 (Eng. Abstr.) **(Rus)**
[Immunologic reactivity in patients with gastroduodenal ulcers] Shuliarenko VA, et al. **Vestn Khir** 1989 Sep; 143(9):37–40 (Eng. Abstr.) **(Rus)**
[Surgical treatment of complicated gastroduodenal ulcers] Vasilenko LI. **Vestn Khir** 1989 Sep;143(9):14–7 (Eng. Abstr.) **(Rus)**
[Ways of reducing mortality in perforated ulcer of the stomach and duodenum] Zinevich VP, et al. **Vestn Khir** 1989 Jun;142(6):12–6 (Eng. Abstr.) **(Rus)**
[The use of vagotomy in treating complicated pyloroduodenal ulcer] Fedun AA, et al. **Voen Med Zh** 1989 Oct;(10):21–2 **(Rus)**
[Erythrocyte function in patients with complicated peptic ulcer] Bekh ND, et al. **Vrach Delo** 1989 Oct;(10):25–8 (Eng. Abstr.) **(Rus)**
[The digestive processes of the stomach and small intestine in complicated peptic ulcer] Grushka VA. **Vrach Delo** 1989 Oct;(10):20–2 (Eng. Abstr.) **(Rus)**
[The seasonality of acute hemorrhages in gastroduodenal ulcers] Tishchenko AM, et al. **Vrach Delo** 1990 May; (5):11–4 (Eng. Abstr.) **(Rus)**
[Effectiveness of somatostatin in the treatment of acute upper digestive hemorrhage] Martí Viaño JL, et al. **Rev Esp Anestesiol Reanim** 1990 May–Jun;37(3):146–8 (Eng. Abstr.) **(Spa)**
[Leiomyoma of the subdiaphragmatic esophagus, with intra-abdominal course, in patients with duodenal ulcer with hemorrhagic episodes] De Juan Martín M, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):559–62 (Eng. Abstr.) **(Spa)**
[Duodenal ulcer and duodenocholedochal fistula] Manuel Palazuelos C, et al. **Rev Esp Enferm Dig** 1990 Jan;77(1):53–4 (Eng. Abstr.) **(Spa)**
[Gas-producing necrotizing infection of the lower limbs secondary to ulcer perforated to retroperitoneum (letter)] Martínez Isla A, et al. **Rev Esp Enferm Dig** 1990 Apr; 77(4):310–1 **(Spa)**

DIAGNOSIS

24-hour gastric pH-metry analysis: influence of arbitrarily predefined time intervals on the reliability of acidity indexes. Mela GS, et al. **Am J Gastroenterol** 1990 Apr; 85(4):381–4
Ultrasonic features of duodenal ulcer. Tuncel E. **Gastrointest Radiol** 1990 Summer;15(3):207–10
Rapid diagnostic test of Campylobacter pylori infection in patients of gastritis, duodenal ulcer and gastric ulcer. A study of 100 cases. Nanivadekar SA, et al. **J Assoc Physicians India** 1989 May;37(5):307–10
Alpha-1-antitrypsin activity in duodenal ulcer. Sayeeduddin S, et al. **J Assoc Physicians India** 1989 Oct;37(10):642–3
Duodenal ulcer in the elderly. Scapa E, et al. **J Clin Gastroenterol** 1989 Oct;11(5):502–6
Pancreatic pseudocyst haemorrhage presenting as a bleeding duodenal ulcer. Muckart DJ, et al. **Postgrad Med J** 1989 Oct;65(768):748–9
How reliable are the 14C-urea breath test and specific serology for the detection of gastric Campylobacter? Husebye E, et al. **Scand J Gastroenterol** 1990 Jul; 25(7):725–30
Ulcer disease among geriatric inpatients with positive faecal occult blood test and/or iron deficiency anaemia. A prospective study. Wroblewski M, et al. **Scand J Gastroenterol** 1990 May;25(5):489–95
Anatomic-functional profiles in duodenal ulcer. Cheli R, et al. **Scand J Gastroenterol Suppl** 1989;167:55–7
Use of endoscopic Congo red test in the evaluation of ulcer recurrence risks after proximal gastric vagotomy. A new interpretive method. de Miranda MP, et al. **Surg Endosc** 1989;3(4):182–5
[The reliability of fiber endoscopic estimation of the size of gastroduodenal ulcer] Jørgensen LN, et al. **Ugeskr Laeger** 1990 Mar 12;152(11):734–7 (Eng. Abstr.)

(Dan)

[The site of recurrent ulcer following stomach surgery (Billroth I and II)] Bretzke G, et al. **Z Gesamte Inn Med** 1990 Mar 1;45(3):78–80 (Eng. Abstr.) (Ger)

[Characteristics of the clinical course of duodenal ulcer in young patients] Kuzin NM, et al. **Klin Med (Mosk)** 1990 Jan;68(1):83–6 (Rus)

[Diagnosis of Campylobacter pylori in chronic gastritis, gastric ulcer and duodenal ulcer (review of the literature)] Starodub EM, et al. **Lab Delo** 1990;(4):4–6 (44 ref.) (Rus)

[The characteristics of the clinical picture and course of gastric and duodenal peptic ulcer in patients with ischemic heart disease] Korzhikov VV, et al. **Ter Arkh** 1990; 62(2):50–2 (Eng. Abstr.) (Rus)

[The characteristics of the clinical course of long-term nonhealing duodenal ulcers combined with chronic gastric erosion and the treatment of patients with the given pathology] Preobrazhenskiĭ VN, et al. **Ter Arkh** 1990; 62(2):62–4 (Eng. Abstr.) (Rus)

[Diagnosis of hemorrhage of small-intestinal tumors in patients under observation for gastroduodenal ulcers] Movchan KN, et al. **Vestn Khir** 1989 Nov;143(11):56–7 (Rus)

[Echography of the stomach and duodenum in children in health and disease] Sapozhnikov VG. **Vestn Rentgenol Radiol** 1989 Sep–Oct;(5):21–5 (Eng. Abstr.) (Rus)

DIET THERAPY

[Diet therapy of patients after organ-sparing surgery with vagotomy] Matveeva II. **Vopr Pitan** 1989 Sep–Oct;(5):74–5 (Rus)

[The effect of diet with an increased amount of tyrosine on reparative processes in the duodenum] Shchedrunov VV, et al. **Vopr Pitan** 1989 Nov–Dec;(6):52–5 (Eng. Abstr.) (Rus)

DRUG THERAPY

Effects of the synthetic PGE1 derivative misoprostol on basal, stimulated and nocturnal acid secretion in duodenal ulcer cases. Mechanism of action. Buzás G, et al. **Acta Physiol Hung** 1989;73(2–3):185–91

Treatment of duodenal ulcers by antacid (Al–Mg–hydroxy–carbonate). A controlled, randomized, prospective, multicentre clinical trial. Nagy L, et al. **Acta Physiol Hung** 1989;73(2–3):331–9

The short term comparative study of antiulcer drugs with different modes of action in duodenal ulcer patients. Németh A, et al. **Acta Physiol Hung** 1990;75 Suppl:221–2

An evaluation of arbaprostil at multiple doses for the treatment of acute duodenal ulcer: a randomized double-blind placebo-controlled international trial. Euler AR, et al. **Am J Gastroenterol** 1990 Feb;85(2):145–9

On-demand treatment for duodenal ulcers: has its time come? [editorial; comment] Freston JW. **Am J Gastroenterol** 1990 Mar;85(3):241–2 Comment on: Am J Gastroenterol 1990 Mar;85(3):243–8.

High-dose ranitidine in the treatment of duodenal ulcer [letter] Lee FI. **Am J Gastroenterol** 1989 Oct;84(10):1337–8

Failure of single night-time dose of H2-receptor antagonists in the treatment of duodenal ulcer patients with bulbar stenosis. Materia A, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1462–3

The histological maturity of regenerating mucosa of healed duodenal ulcer and ulcer recurrence after treatment with H2-antagonist. Pan S, et al. **Am J Gastroenterol** 1990 Aug; 85(8):949–52

Is there really a need for high doses of H2 antagonists in duodenal ulcer treatment? [letter] Savarino V, et al. **Am J Gastroenterol** 1990 Jul;85(7):903–5

Duodenal ulcer resistant to usual omeprazole dose [letter] Savarino V, et al. **Am J Gastroenterol** 1990 May;85(5):618–9

Low doses of H2 antagonists and interaction with anticholinergics [letter] Savarino V, et al. **Am J Gastroenterol** 1989 Nov;84(11):1463–4

Summary of the 34th meeting of the Food and Drug Administration Gastrointestinal Drugs Advisory Committee. March 15 and 16, 1989 (omeprazole and domperidone). Stern WR. **Am J Gastroenterol** 1989 Nov; 84(11):1351–5

Conventional versus on-demand therapy for duodenal ulcer: results of a controlled therapeutic trial [see comments] Thorat VK, et al. **Am J Gastroenterol** 1990 Mar;85(3):243–8 Comment in: Am J Gastroenterol 1990 Mar;85(3):241–2.

Clinical review of histamine2 receptor antagonists. Lipsy RJ, et al. **Arch Intern Med** 1990 Apr;150(4):745–51 (99 ref.)

Omeprazole for duodenal ulceration in Crohn's disease. Valori RM, et al. **BMJ** 1990 Feb 17;300(6722):438–9

Comparative study of alginate and non-alginate antacids concurrently administered with H2 antagonists in cases of duodenal ulcer. Chandra M, et al. **Br J Clin Pract** 1989 Mar;43(3):97–101

Comparison of qid and bd administration of De-Nol in the short term treatment of duodenal ulcer. Lazzaroni M, et al. **Br J Clin Pract** 1989 Apr;43(4):151–5

Relationship between Sakita endoscopic stage and duration of treatment for duodenal ulcer healing. Mosci AS, et al. **Braz J Med Biol Res** 1989;22(10):1219–23

Effect of dimethylsulphoxide on cysteamine-induced duodenal ulceration in rats. Ali BH. **Clin Exp Pharmacol Physiol** 1990 Jun;17(6):463–6

Selecting drug therapy for patients with duodenal ulcers. Siepler JK, et al. **Clin Pharm** 1990 Jun;9(6):463–7 (55 ref.)

Pharmacodynamics of intravenous ranitidine after bolus and continuous infusion in patients with healed duodenal ulcers. Sanders SW, et al. **Clin Pharmacol Ther** 1989 Nov; 46(5):545–51

Famotidine in the management of duodenal ulcer: an analysis of multicenter findings worldwide. Reynolds JC. **Clin Ther** 1988;10(4):436–49

Omeprazole versus placebo in duodenal ulcer healing. The United States experience. Graham DY, et al. **Dig Dis Sci** 1990 Jan;35(1):66–72

Reducing meal-stimulated acid secretion versus reducing nocturnal acid secretion for healing of duodenal ulcer. Lam SK, et al. **Dig Dis Sci** 1989 Oct;34(10):1494–500

Ulcer heterogeneity: further arguments for a range of antisecretory treatment [letter] Savarino V, et al. **Dig Dis Sci** 1990 Jul;35(7):921–3

Omeprazole: implications for therapy of peptic ulcer and reflux oesophagitis. Bium AL. **Digestion** 1989;44 Suppl 1:87–91 (33 ref.)

Efficacy of the H+/K+-adenosine triphosphatase inhibitor omeprazole in peptic ulcer. de Bruijne JW, et al. **Digestion** 1989;44 Suppl 1:25–30 (17 ref.)

H+/K+-adenosine triphosphatase inhibitors. A new approach to the treatment of acid-peptic diseases. Lamers CB. **Digestion** 1989;44 Suppl 1:92–5 (7 ref.)

Omeprazole in the treatment of Zollinger-Ellison syndrome and histamine H2-antagonist refractory ulcers. Meijer JL, et al. **Digestion** 1989;44 Suppl 1:31–9 (31 ref.)

Plasma concentrations of pituitary and peripheral hormones during ranitidine treatment for two years in men with duodenal ulcer. Knigge U, et al. **Eur J Clin Pharmacol** 1989;37(3):305–7

Is there an optimal degree of acid suppression for healing of duodenal ulcers? A model of the relationship between ulcer healing and acid suppression. Burget DW, et al. **Gastroenterology** 1990 Aug;99(2):345–51

Omeprazole provides quicker symptom relief and duodenal ulcer healing than ranitidine. McFarland RJ, et al. **Gastroenterology** 1990 Feb;98(2):278–83

Cost-effectiveness of cimetidine maintenance therapy in chronic gastric and duodenal ulcer. Pym B, et al. **Gastroenterology** 1990 Jul;99(1):27–35

Double blind comparative study of omeprazole and ranitidine in patients with duodenal or gastric ulcer: a multicentre trial. Cooperative study group. **Gut** 1990 Jun;31(6):653–6

Treatment of duodenal ulceration: reflections, recollections, and reminiscences. Bardhan KD. **Gut** 1989 Nov; 30(11):1647–55 (31 ref.)

Omeprazole v ranitidine [letter; comment] Bate CM. **Gut** 1989 Oct;30(10):1437–8 Comment on: Gut 1989 Sep;30(9):1173–8.

Inhibition of nocturnal acidity is important but not essential for duodenal ulcer healing. Bianchi Porro G, et al. **Gut** 1990 Apr;31(4):397–400

Double blind multicentre comparison of omeprazole 20 mg once daily versus ranitidine 150 mg twice daily in the treatment of cimetidine or ranitidine resistant duodenal ulcers [see comments] Delchier JC, et al. **Gut** 1989 Sep; 30(9):1173–8 Comment in: Gut 1989 Oct;30(10):1437–8. Comment in: Gut 1990 May;31(5):584.

Effect of food on H2-receptor blockade in normal subjects and duodenal ulcer patients. Merki HS, et al. **Gut** 1990 Feb;31(2):148–50

Predictors of duodenal ulcer healing during treatment with cimetidine. Okada M, et al. **Gut** 1990 Jul;31(7):758–62

First randomized controlled trial with sucralfate versus H2-antagonists in the treatment of duodenal ulcer non-responders to initial treatment with sucralfate. Dobrilla G, et al. **Hepatogastroenterology** 1990 Apr; 37(2):239–41

The effect of an oral morning dose of nizatidine and ranitidine on gastric acid secretion in duodenal ulcer patients. Lazzaroni M, et al. **Hepatogastroenterology** 1989 Dec; 36(6):490–3

Sucralfate in the short-term treatment of duodenal ulcer. A double-blind comparison with cimetidine and placebo. Khanna SS, et al. **J Assoc Physicians India** 1989 Aug; 37(8):503–5

Randomised double blind placebo controlled clinical trial of sucralfate and ranitidine in chronic duodenal ulcer. Nair KV, et al. **J Assoc Physicians India** 1990 Mar;38(3):211–2

Smoking, gastric acid secretion duodenal ulcer healing, and H2 receptor antagonists [letter] Pal LS, et al. **J Assoc Physicians India** 1989 Jul;37(7):476–7

Cetraxate is not superior to placebo in the treatment of duodenal ulcer. Bianchi Porro G, et al. **J Clin Gastroenterol** 1990 Apr;12(2):234–6

A single-blind pilot study comparing standard and half bedtime doses of ranitidine in the short-term healing of duodenal ulcer. Celle G, et al. **J Clin Gastroenterol** 1990 Jun;12(3):255–9

The effect of verapamil on cysteamine-induced duodenal ulcer in the rat. Lee CK, et al. **J Korean Med Sci** 1987 Dec;2(4):247–53

The significance of removing oxygen-derived free radicals in the treatment of acute and chronic duodenal ulceration in the rat. Salim AS. **J Pharm Pharmacol** 1990 Jan; 42(1):64–7

Treatment of acute duodenal ulcers with famotidine and its comparison with other H2 blockers. Akhtar MA, et al. **JPMA** 1990 Jun;40(6):136–7

Omeprazole, Helicobacter pylori, gastritis, and duodenal ulcer [letter; comment] Biasco G, et al. **Lancet** 1989 Dec 9;2(8676):1403 Comment on: Lancet 1989 Aug 12;2(8659):389–90.

Treatment of Helicobacter pylori positive duodenal ulcers [letter] Isakov VA, et al. **Lancet** 1990 Sep 22; 336(8717):755–6

Cure of duodenal ulcer associated with eradication of Helicobacter pylori [see comments] Rauws EA, et al. **Lancet** 1990 May 26;335(8700):1233–5 Comment in: Lancet 1990 Jun 30;335(8705):1599.

Recurrence of duodenal ulcer and Campylobacter pylori infection after eradication. Borody TJ, et al. **Med J Aust** 1989 Oct 16;151(8):431–5

Cure of duodenal ulcer after eradication of Helicobacter pylori. George LL, et al. **Med J Aust** 1990 Aug 6; 153(3):145–9

Treating ulcers in patients receiving anti-arthritic drugs [editorial] Langman MJ. **Q J Med** 1989 Dec; 73(272):1089–91

Is the inhibition of nocturnal gastric acid secretion the most important factor in duodenal ulcer treatment? A comparison between the effectiveness of single morning and nocte doses of ranitidine 300 mg. Zaterka S, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Sep–Oct; 44(5):185–8

Duodenal ulcer treated with omeprazole: healing and relapse rates. Does treatment duration influence subsequent remission? Farup PG, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1107–12

Efficacy and safety of long-term maintenance therapy of duodenal ulcers. Penston J, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1145–52

Omeprazole in the management of refractory duodenal ulcer. Bardhan KD. **Scand J Gastroenterol Suppl** 1989;166:63–73 (42 ref.)

Rioprostil in the short-term treatment of duodenal ulcer: a multicentre double-blind trial vs. cimetidine. Bianchi Porro G, et al. **Scand J Gastroenterol Suppl** 1989;164:219–23

Antacids for duodenal ulcer: current role. Bianchi Porro G, et al. **Scand J Gastroenterol Suppl** 1990;174:48–53 (23 ref.)

Omeprazole in the treatment of duodenal ulcer. Bianchi Porro G, et al. **Scand J Gastroenterol Suppl** 1989;166:48–53; discussion 74–5 (35 ref.)

Treatment of duodenal ulcer with rioprostil: a randomized multicentre double-blind study. Boucekkine T, et al. **Scand J Gastroenterol Suppl** 1989;164:191–3

Omeprazole in the long-term management of patients with acid-related diseases resistant to ranitidine. Brunner G, et al. **Scand J Gastroenterol Suppl** 1989;166:101–5; discussion 111–3

Rioprostil, a new prostaglandin E1 analogue, in the once-daily treatment for the prevention of duodenal ulcer recurrence: a comparison with ranitidine. Businger JA, et al. **Scand J Gastroenterol Suppl** 1989;164:152–9; discussion 159–60

Rioprostil, a new prostaglandin E1 analogue, in the once-daily treatment of acute duodenal ulcer: a comparison with ranitidine. Businger JA, et al. **Scand J Gastroenterol Suppl** 1989;164:161–7; discussion 167–8

Relationship between inhibition of acid secretion and healing of peptic ulcers. Chiverton SG, et al. **Scand J Gastroenterol Suppl** 1989;166:43–7; discussion 74–5 (32 ref.)

Efficacy and safety of rioprostil, 300 micrograms b.d., in the treatment of duodenal ulcer: a double-blind, controlled multicentre clinical study vs. ranitidine. Coremans G, et al. **Scand J Gastroenterol Suppl** 1989;164:198–205; discussion 205–6

Drug safety of rioprostil in patients with active gastric or duodenal ulcer. Corsing C, et al. **Scand J Gastroenterol Suppl** 1989;164:232–7; discussion 237–8

A single evening dose of rioprostil, 600 micrograms, in the treatment of acute duodenal ulcers. Dammann HG, et al. **Scand J Gastroenterol Suppl** 1989;164:215–8

Oxmetidine in the short term treatment of active duodenal ulcer. A review and commentary. Dobrilla G, et al. **Scand J Gastroenterol Suppl** 1989;167:71–80

Octatropine-methyl-bromide and sulglycotide salt in the short-term treatment of active duodenal ulcer. A double blind endoscopic study of 40 outpatients. Dobrilla G, et al. **Scand J Gastroenterol Suppl** 1989;167:65–7

Rioprostil vs. ranitidine in duodenal ulcer healing: a double-blind multicentre trial. Lavignolle A, et al. **Scand J Gastroenterol Suppl** 1989;164:194–7

Histochemistry of the gastric and duodenal mucosa under cimetidine and carbenoxolone treatment. Lojda Z, et al. **Scand J Gastroenterol Suppl** 1989;167:13–5

Maintenance of duodenal ulcer healing by antacids. Miller JP. **Scand J Gastroenterol Suppl** 1990;174:54–9 (25 ref.)

The potential impact of Campylobacter pylori on the treatment of duodenal ulcer disease. Miller JP, et al. **Scand J Gastroenterol Suppl** 1989;160:39–45 (50 ref.)

The effect of prostacyclin and its analogues on cysteamine-induced duodenal ulceration of rats. Náfrádi J, et al. **Scand J Gastroenterol Suppl** 1989;167:90–2

Healing rate of duodenal ulcer with hyper-aggressive peptic

activity under H2-receptor antagonists. Pippa G, et al. **Scand J Gastroenterol Suppl** 1989;167:68-70

Rioprostil and ranitidine in the prevention of duodenal ulcer relapse. Rampal P, et al. **Scand J Gastroenterol Suppl** 1989; 164:146-50; discussion 150-1

The clinical utility and safety of omeprazole. Walan A. **Scand J Gastroenterol Suppl** 1989;166:140-4; discussion 145 (29 ref.)

Rioprostil in the healing of duodenal ulceration: a short report. Whorwell PJ. **Scand J Gastroenterol Suppl** 1989; 164:214

[Treatment of duodenal ulcer with ranitidine] Brailski Kh, et al. **Vutr Boles** 1990;29(1):25-30 (Eng. Abstr.) **(Bul)**

[312 cases of gastric and duodenal ulcer bleeding treated with 3 kinds of alcoholic extract rhubarb tablets] Zhou H, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1990 Mar;10(3):150-1, 131-2 (Eng. Abstr.) **(Chi)**

[Effect of antacids on the bioavailability and therapeutic efficacy of cimetidine] Bai G, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):520-2, 571 (Eng. Abstr.) **(Chi)**

[Omeprazole in peptic ulceration: acid inhibition and endoscopic healing] Chen SP, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec;28(12):720-1, 767 (Eng. Abstr.) **(Chi)**

[Duodenal ulcer, study of gastric secretion and rational treatment with famotidine in different doses] Santoro E, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Oct; 25(5):211-4 (Eng. Abstr.) **(Fre)**

[Current directions in the treatment of gastric and duodenal ulcers] Fellus R. **Dakar Med** 1988;33(1-4):42-4 (0 ref.) (Eng. Abstr.) **(Fre)**

[Comparative efficacy of famotidine and ranitidine in the treatment of acute-phase duodenal ulcer. A French comparative therapeutic trial] Delvaux M, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1055-9 (Eng. Abstr.) **(Fre)**

[Factors influencing the cure of duodenal ulcer in smokers treated with cimetidine (letter)] Ligny C, et al. **Gastroenterol Clin Biol** 1990;14(3):291-3 **(Fre)**

[Ulcer disease--drug treatment and its limitations] Arnold R. **Chirurg** 1990 Jan;61(1):1-9 (28 ref.) **(Ger)**

[Long-term maintenance therapy in duodenal ulcer. Efficacy and safety] Penston J, et al. **Fortschr Med** 1990 May 10; 108(14):282-6 (Eng. Abstr.) **(Ger)**

[Dose finding study of telenzepine (1.5 vs. 3 vs 5 mg once daily) in acute treatment of duodenal ulcer. A double-blind, randomized, multicenter parallel group comparison] Hüttemann W, et al. **Med Klin** 1989 Dec 15;84(12):574-7 (Eng. Abstr.) **(Ger)**

[De-nol in NSAID-induced gastroduodenal lesions] Cataldo MG, et al. **Minerva Dietol Gastroenterol** 1990 Jan-Mar; 36(1):27-30 (Eng. Abstr.) **(Ita)**

[Studies on anti-ulcer effects of a new compound, zinc L-carnosine (Z-103)] Seiki M, et al. **Nippon Yakurigaku Zasshi** 1990 May;95(5):257-69 (Eng. Abstr.) **(Jpn)**

[Is famotidine--the 3d generation H2 receptor antagonist--a step in progress in the treatment of duodenal ulcer?] Stasiewicz J, et al. **Pol Tyg Lek** 1988 Dec 19-26; 43(51-52):1684-6 **(Pol)**

[Effects of cimetidine, a H2-histamine blocker, on ulcer cicatrization processes in patients with peptic ulcer localized in the duodenal bulb] Belousov AS, et al. **Klin Med (Mosk)** 1990 Mar;68(3):96-9 **(Rus)**

[Experience with the treatment of duodenal ulcer associated with Campylobacter pylori infection by combined use of anti-secretory and antibacterial drugs] Grigo'rev PIa, et al. **Klin Med (Mosk)** 1989 Aug;67(8):52-5 **(Rus)**

[Complex clinico-immunologic assessment of the efficacy of ethadene in treating duodenal ulcers] Korepanov AM, et al. **Klin Med (Mosk)** 1989 Jul;67(7):58-61 **(Rus)**

[The effect of histamine H2 receptor blockaders on the proteolytic activity in patients with ulcers] Bashir BM. **Lab Delo** 1990;(4):25-7 (Eng. Abstr.) **(Rus)**

[The cytoprotective effect of prostaglandin E2 in duodenal ulcers] Skliarov ElA, et al. **Lab Delo** 1989;(7):45-8 (Eng. Abstr.) **(Rus)**

[Experience with the use of a new autonomic drug butyroxan in patients with gastroduodenal pathology and autonomic dysfunction] Gonchar NV, et al. **Pediatriia** 1990;(2):109-10 **(Rus)**

[Evaluation of the effectiveness of cytoprotective drugs in the treatment of duodenal ulcer] Belousov IuB, et al. **Sov Med** 1989;(11):86-9 **(Rus)**

[Endoscopic treatment of duodenal ulcer with proposol] Kabanov AN, et al. **Sov Med** 1989;(6):92-4 **(Rus)**

[Chlorozyl, a new Soviet M-cholinolytic agent, and its effectiveness in duodenal ulcer] Tsimmerman IaS, et al. **Sov Med** 1990;(5):39-43 (Eng. Abstr.) **(Rus)**

[Sucralfate: the agent of choice in the treatment of peptic ulcer?] Fedorov NE, et al. **Ter Arkh** 1990;62(2):64-7 (Eng. Abstr.) **(Rus)**

[The effect of almagel, gastrotsepin and food on the acidity and protease activity of the stomach and duodenum in peptic ulcer] Mysh VG, et al. **Ter Arkh** 1989;61(8):62-5 (Eng. Abstr.) **(Rus)**

[The effect of food intake, atropine and No-spa on autonomic tonus and hemodynamic indices in patients with peptic ulcer] Dotsenko NIa. **Vrach Delo** 1989 Oct;(10):22-5 (Eng. Abstr.) **(Rus)**

[The treatment of peptic ulcer patients with calcitrin] Starodub EM. **Vrach Delo** 1990 May;(5):9-11 (Eng. Abstr.) **(Rus)**

[Omeprazole in the treatment of duodenal ulcer] **Med Clin (Barc)** 1990 Mar 17;94(10):suppl 2 p. (6 ref.) **(Spa)**

[Combined therapy using ranitidine and sucralfate in duodenal ulcer resistant to cimetidine] Uribarrena R, et al. **Rev Clin Esp** 1990 Apr;186(7):328-31 (Eng. Abstr.) **(Spa)**

[Therapy of ulcer recurrence after vagotomy of oxyntic cells with sucralfate] Fernández Dovale M, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):109-12 (Eng. Abstr.) **(Spa)**

ECONOMICS

[Helicobacter pylori-induced cost-benefit risk considerations] Leiss O. **Leber Magen Darm** 1989 Dec; 19(6):333-5 **(Ger)**

ENZYMOLOGY

Effect of ayurvedic medicines on beta-glucuronidase activity of Brunner's glands during recovery from cysteamine induced duodenal ulcers in rats. Nadar TS, et al. **Indian J Exp Biol** 1989 Nov;27(11):959-62

Enzyme activities in the gastric mucosa in duodenal ulcer patients. Vetvik K, et al. **Scand J Gastroenterol** 1990 Jun; 25(6):594-600

EPIDEMIOLOGY

Peptic ulcer disease in tropical Africa. Bálint GA. **Acta Med Hung** 1989;46(4):307-13

Diet: its role in the genesis of peptic ulceration. Tovey FI, et al. **Dig Dis** 1989;7(6):309-23 (123 ref.)

Prevalence of duodenal ulcer in cirrhotic males referred for liver transplantation. Does the etiology of cirrhosis make a difference? Rabinovitz M, et al. **Dig Dis Sci** 1990 Mar; 35(3):321-6

Age of onset of symptoms in duodenal and gastric ulcer. Kang JY. **Gut** 1990 Aug;31(8):854-7

High winter incidence of duodenal ulcer in Israel [letter; comment] Slater PE. **J Clin Gastroenterol** 1989 Oct; 11(5):587-8 Comment on: J Clin Gastroenterol 1988 Aug;10(4):380-2.

Primary peptic ulcer disease in childhood. Gold MS, et al. **S Afr Med J** 1990 Feb 17;77(4):183-5 (7 ref.)

Ten-year observation of peptic ulceration at Ga-Rankuwa Hospital, Pretoria--1979-1988. van der Merwe CF, et al. **S Afr Med J** 1990 Aug 18;78(4):196-9 (13 ref.)

ETIOLOGY

Campylobacter pylori, duodenal ulcer disease, and gastrin [clinical conference] Levi S, et al. **BMJ** 1989 Oct 28; 299(6707):1093-4

Dopamine in gastrointestinal disease. Glavin GB, et al. **Dig Dis Sci** 1990 Sep;35(9):1153-61 (89 ref.)

Role of oxygen-derived free radicals in mechanism of acute and chronic duodenal ulceration in the rat. Salim AS. **Dig Dis Sci** 1990 Jan;35(1):73-9

MPTP, gastroduodenal motility, duodenal ulceration, and Parkinson's disease [letter] Szabo S. **Dig Dis Sci** 1990 May; 35(5):666-7

Mechanisms of stress ulceration and implications for treatment. Schiessel R, et al. **Gastroenterol Clin North Am** 1990 Mar;19(1):101-20 (65 ref.)

Pathogenesis of duodenal ulcer. Schubert ML. **Gastroenterology** 1990 May;98(5 Pt 1):1388-9

Smoking and duodenal ulcer. Wormsley KG. **Gastroenterology** 1978 Jul;75(1):139-42

Peptic ulcer in India [letter; comment] Tovey FI, et al. **Gut** 1990 Jan;31(1):123-4 Comment on: Gut 1989 Jul;30(7):930-4.

Campylobacter pylori. A new era in gastroduodenal disorders? Gill HH, et al. **J Assoc Physicians India** 1990 Feb;38(2):147-50 (47 ref.)

Smoking and duodenal ulcer disease. Chiverton SG, et al. **J Clin Gastroenterol** 1989;11 Suppl 1:S29-33 (72 ref.)

Irradiation-induced duodenal ulcer disease refractory to ranitidine: healing by omeprazole. Koop H, et al. **J Clin Gastroenterol** 1989 Dec;11(6):631-4

Influence of cigarette smoking on recurrence of duodenal ulcer. Sumii K, et al. **Jpn J Med** 1989 Jul-Aug;28(4):492-5

Helicobacter pylori: controversies and an approach to management. Ormand JE, et al. **Mayo Clin Proc** 1990 Mar; 65(3):414-26 (116 ref.)

Coffee drinking in patients with duodenal ulcer and a control population. Eisig JN, et al. **Scand J Gastroenterol** 1989 Sep; 24(7):796-8

Campylobacter pylori as a pathogenetic factor in duodenal ulcer: the case for. Graham DY. **Scand J Gastroenterol Suppl** 1989;160:46-52

Duodenal ulcer disease: what role does Campylobacter pylori play? Smith AC. **Scand J Gastroenterol Suppl** 1989;160:14-8 (58 ref.)

[Advances in research on Campylobacter pylori] Qui YL, et al. **Chung Hua I Hsueh Tsa Chih** 1989 May;69(5):298-300 (25 ref.) **(Chi)**

[Primary cytomegalovirus infection and duodenal ulcer in a non-immunosuppressed adult (letter)] Raguin G, et al. **Ann Med Interne (Paris)** 1989;140(6):531-2 **(Fre)**

[Does Helicobacter pylori have a direct proteolytic effect in ulcerative disease?] Tessaro P, et al. **G Clin Med** 1990 Mar;71(3):173-8, 181 (Eng. Abstr.) **(Ita)**

[The role of Campylobacter pylori in gastroduodenal pathology] Sirigu F, et al. **Recenti Prog Med** 1990 Mar; 81(3):142-5 (Eng. Abstr.) **(Ita)**

[Physiopathology and treatment of peptic ulcer] Matsuo Y. **Nippon Naika Gakkai Zasshi** 1990 Mar 10;79(3):338-41 **(Jpn)**

[Campylobacter pylori and its role in the etiopathogenesis of gastroduodenal ulcer] Talalaj M. **Pol Arch Med Wewn** 1987 Oct;78(4):235-40 (35 ref.) **(Pol)**

[Campylobacter pylori and late recurrences of duodenal ulcer] Loginov AS, et al. **Klin Med (Mosk)** 1989 Aug; 67(8):48-50 **(Rus)**

[Mechanisms of the origin of duodenal ulcer] Ryss ES, Fishzon-Ryss IuI. **Klin Med (Mosk)** 1990 Mar;68(3):17-21 **(Rus)**

[Etiopathogenesis and treatment of peptic ulcer] Bashniak VV. **Vestn Khir** 1989 Aug;144(8):61-3 **(Rus)**

[Stomach and duodenal ulcer in endocrine tumors] Derizhanova IS, et al. **Vopr Onkol** 1989;35(8):956-61 (Eng. Abstr.) **(Rus)**

[Pathogenic aspects of duodenal ulcers by cysteamine. Role of the Brunner glands] Laudanno OM, et al. **Acta Gastroenterol Latinoam** 1988;18(3):187-94 (Eng. Abstr.) **(Spa)**

[Diagnosis of Campylobacter pylori infection of the gastric mucosa: histologic and microbiologic aspects] Sainz S, et al. **Med Clin (Barc)** 1990 Apr 21;94(15):561-3 (Eng. Abstr.) **(Spa)**

GENETICS

Multiplicative effect of hyperpepsinogenemia I and non-secretor status on the risk of duodenal ulcer in siblings. Sumii K, et al. **Gastroenterol Jpn** 1990 Apr;25(2):157-61

[Duodenal ulcer in 2 dizygotic twins] Sanna CM, et al. **Pediatr Med Chir** 1990 Jan-Feb;12(1):95-8 (Eng. Abstr.) **(Ita)**

IMMUNOLOGY

The occurrence of gastric and duodenal auto-antibodies in peptic ulcer disease. Song YH, et al. **Acta Physiol Scand** 1989 Dec;137(4):535-9

Severe duodenal candidiasis in a patient with IgA deficiency and T cell defects. Singh S, et al. **Indian J Gastroenterol** 1990 Jan;9(1):95-6

The occurrence of auto-antibodies in patients with gastro-duodenal lesions. Mårdh S, et al. **J Intern Med Suppl** 1990;732:77-82

[Effects of T-activin on the immunological status of middle-aged and aged patients after gastric resection and selective proximal vagotomy in complicated duodenal ulcer] Ataliev AE, et al. **Klin Khir** 1990;(5):50-1 **(Rus)**

[Characteristics of immunologic status in patients with post-vagotomy disorders] Shevchenko BF, et al. **Klin Khir** 1989;(8):17-9 (Eng. Abstr.) **(Rus)**

[State of local and total humoral immunity in duodenal ulcer with Campylobacter pylori infection] Il'chenko AA, et al. **Sov Med** 1990;(5):43-5 (Eng. Abstr.) **(Rus)**

[The clinico-immunological aspects of different variants in the course of peptic ulcer] Komarov FI, et al. **Ter Arkh** 1990;62(2):38-43 **(Rus)**

[Cellular and humoral immunity in duodenal peptic ulcer with gastrin cell hyperplasia] Zverkov IV, et al. **Ter Arkh** 1990;62(4):101-3 (Eng. Abstr.) **(Rus)**

[Cellular immunity of patients with peptic ulcer undergoing antiulcer therapy] Komarov FI, et al. **Voen Med Zh** 1989 Dec;(12):23-7 **(Rus)**

[Local and general humoral immunity in peptic ulcer patients] Loginov AS, et al. **Vrach Delo** 1990 Jun;(6):52-5 (Eng. Abstr.) **(Rus)**

[Immunity in patients with peptic ulcer] Malov IuS. **Vrach Delo** 1990 Jan;(1):19-22 (Eng. Abstr.) **(Rus)**

METABOLISM

Different HCl and pepsinogen I secretion patterns in anatomically defined gastric ulcer subsets. Albillos A, et al. **Am J Gastroenterol** 1990 May;85(5):535-8

Gastric juice immunoreactive epidermal growth factor levels in patients with peptic ulcer disease. Calabrò A, et al. **Am J Gastroenterol** 1990 Apr;85(4):404-7

Ablation of exaggerated meal-stimulated gastrin release in duodenal ulcer patients after clearance of Helicobacter (Campylobacter) pylori infection. Graham DY, et al. **Am J Gastroenterol** 1990 Apr;85(4):394-8

24-hour ambulatory study of duodenal pH [letter; comment] Kerrigan D, et al. **Ann Surg** 1990 Jan;211(1):107-8 Comment on: Ann Surg 1988 Dec;208(6):702-7.

Effect of epinephrine, propranolol, and verapamil on the chemiluminescence of neutrophils in duodenal ulcer patients. Markiewicz K, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1-2):141-7

Impaired histamine binding by gastric juice of patients with duodenal ulcer. Zak-Nejmark T, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1-2):207-12

Studies on gastrin in duodenal ulcer. Zhang ZB, et al. **Chin Med J [Engl]** 1990 Jan;103(1):45-9

Gastric acid secretion stimulated by modified sham-feeding, and the effects of histamine H2-antagonist and

anti-muscarinic agent in patients with duodenal ulcer. Ooi S, et al. **Gastroenterol Jpn** 1989 Oct;24(5):505–11

Proximal duodenal prostaglandin E2 release and mucosal bicarbonate secretion are altered in patients with duodenal ulcer. Bukhave K, et al. **Gastroenterology** 1990 Oct; 99(4):951–5

Somatostatin in mucosa of stomach and duodenum in gastroduodenal disease. Chayvialle JA, et al. **Gastroenterology** 1978 Jul;75(1):13–9

Sufotidine 600 mg bd virtually eliminates 24 hour intragastric acidity in duodenal ulcer subjects. Smith JT, et al. **Gut** 1990 Mar;31(3):291–3

Prostaglandin E2 and F2 alpha levels in the duodenal and antral mucosa of non-ulcer dyspeptic and duodenal ulcer patients. Parodi MC, et al. **Hepatogastroenterology** 1990 Apr;37(2):208–11

The adherent gastric mucus gel barrier in man and changes in peptic ulceration. Allen A, et al. **J Intern Med Suppl** 1990;732:83–90 (44 ref.)

Human duodenal mucosal bicarbonate secretion—physiological and clinical aspects. Isenberg JI, et al. **J Intern Med Suppl** 1990;732:113–7

Duodenal SP-like immunoreactivity is decreased in experimentally-induced duodenal ulcers. Evangelista S, et al. **Neurosci Lett** 1990 May 4;112(2–3):352–5

Gut hormone release by intraduodenal stimulation in duodenal ulcer patients. Domschke S, et al. **Scand J Gastroenterol Suppl** 1989;167:60–4

[Prostaglandins and peptic ulcer] Sun QW. **Sheng Li Ko Hsueh Chin Chan** 1990 Jan;21(1):67–9 (46 ref.) (Chi)

[Tri-annual rhythm of basal acid secretion and secretion stimulated by pentagastrin in duodenal ulcer] Merrouche M, et al. **Gastroenterol Clin Biol** 1989 Oct;13(10):793–8 (Eng. Abstr.) (Fre)

[The effect of modified sham-feeding on gastrin-stimulated gastric secretion in patient with duodenal ulcer] Sakakibara T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr; 87(4):951–6 (Eng. Abstr.) (Jpn)

[Studies on immunoreactive somatostatin and gastrin contents of the gastric mucosa in patients with duodenal ulcer—comparison to patients with fundic gland polyposis and normal subjects] Yoshida Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr;87(4):957–64 (Eng. Abstr.) (Jpn)

[Gastrin-producing cells of the stomach in duodenal ulcer before and after selective proximal vagotomy] Matveeva II, et al. **Arkh Patol** 1989;51(7):15–20 (Eng. Abstr.) (Rus)

[The characteristics of gastrozepin pharmacokinetics in patients with gastric and duodenal peptic ulcers] Loginov AS, et al. **Farmakol Toksikol** 1990 Jan-Feb;53(1):43–5 (Eng. Abstr.) (Rus)

[Indicators of lipid peroxidation in duodenal ulcer and chronic gastroduodenitis in children] Zhukova EA, et al. **Pediatriia** 1989;(8):15–8 (Eng. Abstr.) (Rus)

MICROBIOLOGY

Campylobacter pylori in gastric, duodenal and jejunal juices and mucosae of patients with duodenal ulcer. Debongnie JC, et al. **Acta Gastroenterol Belg** 1989 Jan-Apr;52(1-2):3–8

Antral Campylobacter pylori colonization, ABO blood group, and secretor status [letter] Levi S, et al. **Gastroenterol Clin Biol** 1989 Dec;13(12):1095

Duodenal gastric heterotopia and Campylobacter pylori: an exception to the rule? [letter] Haboubi NY, et al. **J Clin Pathol** 1989 Oct;42(10):1111–2

Helicobacter pylori and the pathogenesis of gastroduodenal inflammation. Blaser MJ. **J Infect Dis** 1990 Apr; 161(4):626–33 (69 ref.)

Herpes viruses and duodenal ulcer disease. Kottaridis SD, et al. **J Med Virol** 1989 Nov;29(3):224–6

[Comparative study of the frequency of Campylobacter pylori in duodenal and stomach ulcers and chronic gastritis using the urease test and histologic staining] Mitova R, et al. **Vutr Boles** 1989;28(4):78–80 (Bul)

[Has Campylobacter pylori infection any clinical relevance? Methodologic, epidemiologic and clinical studies] Döbrönte Z, et al. **Orv Hetil** 1989 Nov 26;130(48):2563–8 (42 ref.) (Eng. Abstr.) (Hun)

[Campylobacter pylori in patients with gastroduodenal disease] Fukuda Y, et al. **Gan To Kagaku Ryoho** 1990 Apr; 17(4 Pt 1):575–88 (Eng. Abstr.) (Jpn)

[Semiquantitative culture of Campylobacter pylori in gastroduodenal disorder] Tsuneoka H, et al. **Kansenshogaku Zasshi** 1990 Feb;64(2):169–73 (Eng. Abstr.) (Jpn)

[The role of Campylobacter pylori in the clinical course of chronic antral gastritis and duodenal ulcer] Kalinin AV, et al. **Klin Med (Mosk)** 1989 Oct;67(10):64–6 (Rus)

[Campylobacter pylori and early relapse of peptic ulcer] Loginov AS, et al. **Vrach Delo** 1989 Dec;(12):54–6 (Eng. Abstr.) (Rus)

PATHOLOGY

Aspirin concurrently administered with ranitidine does not delay healing of duodenal ulcer. Misra SP, et al. **Aust N Z J Med** 1990 Jun;20(3):201–3

Cell renewal in non-specific duodenitis, ulcer-related duodenitis and duodenal ulcer. Experiments in Mastomys (Praomys natalensis). Smedley FH, et al. **Digestion** 1990; 45(2):72–9

Healing process of duodenal ulcers induced by indomethacin plus histamine in rats. Takeuchi K, et al. **Digestion** 1989; 42(4):202–11

Surface hydrophobicity of gastric mucosa in peptic ulcer disease. Relationship to gastritis and Campylobacter pylori infection. Spychal RT, et al. **Gastroenterology** 1990 May; 98(5 Pt 1):1250–4

Gastric enterochromaffin-like (ECL) cells in hypergastrinaemic duodenal ulcer disease. Coupe M, et al. **Gut** 1990 Feb;31(2):144–7

Pathogenesis of the earliest epithelial cell damage induced by mepirizole and cysteamine in the rat duodenum. Tanaka H, et al. **Jpn J Pharmacol** 1989 Dec;51(4):509–19

Thickness of Brunner's glands and its clinical significance in duodenal ulcer disease. Fuse Y, et al. **Scand J Gastroenterol** 1990 Feb;25(2):165–72

The distribution of duodenal G cells in duodenal ulcer patients. Giacosa A, et al. **Scand J Gastroenterol Suppl** 1989; 167:58–9

[Does Campylobacter Helicobacter pylori infection have a clinical relevance? Methodologic, epidemiologic and clinical studies] Döbrönte Z, et al. **Gastroenterol J** 1990; 50(1):32–7 (Eng. Abstr.) (Ger)

[Chronic ischemic gastropathy—a clinicopathologic entity?] Balázs M, et al. **Pathologe** 1990 Mar;11(2):89–93 (Ger)

[Possible role of oxygen-derived free radicals on the development of cysteamine-induced duodenal mucosal injury in rats] Takamasu M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb;87(2):284 (Jpn)

[Results of the morphometric study of endocrine cells of the antral part of the stomach in duodenal ulcer] Movchan KN. **Klin Khir** 1989;(8):24–6 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

The role of gastric and duodenal pH in the cysteamine-induced duodenal ulcer in the rat. Kusterer K, et al. **Acta Physiol Hung** 1989;73(2–3):247–50

Duodenogastric reflux in healed duodenal ulcer [letter] Andrade JI, et al. **Am J Gastroenterol** 1990 Jul;85(7):903

Alcohol intake and acute duodenal ulcer healing [letter] Battaglia B, et al. **Am J Gastroenterol** 1990 Sep;85(9):1198–9

Continuous acidity monitoring in the study of gastric antisecretory drugs: pH or antilog transformation of pH, mean or median? Mela GS, et al. **Am J Gastroenterol** 1990 Sep;85(9):1105–8

Sham feeding for testing gastric secretory capacities before and after parietal cell vagotomy. Gilly F, et al. **Br J Surg** 1989 Sep;76(9):946–8

Quantification of duodenogastric reflux in gastroduodenal peptic ulcer and in gastric operation patients, using a 24-h gastric pH measurement as a quantification technique. Robles Campos R, et al. **Br J Surg** 1990 Apr;77(4):428–31

Gastric mucosal competence. **Can Med Assoc J** 1968 Sep 14;99(10):503–4

Gastric mucosal competence and its role in the etiology of peptic ulcers. Wlodek GK. **Can Med Assoc J** 1968 Sep 14;99(10):483–8 (32 ref.)

Interdigestive gastroduodenal motility in patients with active and inactive duodenal ulcer disease. Bortolotti M, et al. **Digestion** 1989;44(2):95–100

Intragastric and intraoesophageal pH monitoring in duodenal ulcerpatients: effect of the new histamine H2-receptor antagonist ramixotidine. Molgora M, et al. **Eur J Clin Pharmacol** 1989;37(4):405–7

Experimental gastric and duodenal ulcers. Advances in pathogenesis. Szabo S, et al. **Gastroenterol Clin North Am** 1990 Mar;19(1):67–85 (83 ref.)

Gastric acid secretion in a child with postbulbar duodenal ulcer. Kato S, et al. **Gastroenterol Jpn** 1989 Dec; 24(6):707–10

Acid and duodenal ulcer pain [letter] Kang JY. **Gastroenterology** 1990 Aug;99(2):603

The influence of severe bulb deformity on duodenal ulcer relapse. Piai G, et al. **Hepatogastroenterology** 1990 Feb; 37(1):131–4

Role of accumulated gastric content in the pathogenesis of cysteamine- and mepirizole-induced duodenal ulcers in the rat. Tanaka H, et al. **J Intern Med Suppl** 1990;732:69–75

Influence of jejunal hypertonic glucose infusion on sham-feeding-stimulated gastric acid secretion: evidence of a defective mechanism in duodenal ulcer patients. Linares CA, et al. **Scand J Gastroenterol** 1990 Mar; 25(3):269–75

[Duodenal ulcer, study of gastric secretion and rational treatment with famotidine in different doses] Santoro E, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Oct; 25(5):211–4 (Eng. Abstr.) (Fre)

[Comparison of 24-hour gastric pH in normal controls and patients with duodenal ulcer or atrophic gastritis] Pestiaux A, et al. **Gastroenterol Clin Biol** 1990;14(5):423–7 (Eng. Abstr.) (Fre)

[Acid-related pathology and prolonged continuous gastric pH monitoring. Physiopathologic findings and therapeutic implications] Celle G, et al. **Recenti Prog Med** 1989 Sep; 80(9):485–92 (50 ref.) (Eng. Abstr.) (Ita)

[Effects of endocrinological function of antrum on acid secretion of parietal cell in patients with duodenal ulcer] Miura K. **Nippon Geka Gakkai Zasshi** 1989 Jun; 90(6):826–36 (Eng. Abstr.) (Jpn)

[Influence of pregnancy on the healing of chronic gastric and duodenal ulcers. Role of endogenous epidermal growth factor] Warzecha Z, et al. **Ginekol Pol** 1989 Mar; 60(3):166–70 (Eng. Abstr.) (Pol)

[Maximal gastric secretion during physical exertion and restitution in patients with chronic duodenal ulcer] Markiewicz K, et al. **Pol Arch Med Wewn** 1988 Jan; 79(1):13–9 (Eng. Abstr.) (Pol)

[State of the valvular function of the cardia in patients with duodenal ulcer before and after vagotomy and methods of its correction] Rychagov GP, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):34–7 (Eng. Abstr.) (Rus)

[Functional state of the liver in patients with complicated duodenal ulcer before and after different types of vagotomy] Sativaldiev MM, et al. **Klin Khir** 1990;(5):50 (Rus)

[Functional state of the hypothalamo-hypophyseal-gonadal system in patients with duodenal ulcer] Dudarenko SV, et al. **Klin Med (Mosk)** 1990 Mar;68(3):93–6 (Eng. Abstr.) (Rus)

[Dependence of the course of duodenal ulcer on the hormonal regulation of gastric secretion] Rapoport SI, et al. **Klin Med (Mosk)** 1990 Mar;68(3):86–9 (Rus)

[The rheological properties of the gastric mucus in peptic ulcer patients] Borisov IuIu. **Ter Arkh** 1990;62(2):43–5 (Eng. Abstr.) (Rus)

[The morphofunctional characteristics of the duodenal mucosa in patients with a duodenal ulcer at different phases of the disease] Fisher AA, et al. **Ter Arkh** 1990;62(2):28–33 (Eng. Abstr.) (Rus)

[The importance of studying the regulatory mechanisms of HCl secretion in patients with duodenal peptic ulcer] Komarov FI, et al. **Ter Arkh** 1989;61(8):57–9 (Rus)

[The blood coagulation and fibrinolytic properties of the mucosa in the gastroduodenal area in patients with duodenal peptic ulcer] Tabidze ZSh. **Ter Arkh** 1990; 62(2):35–8 (Eng. Abstr.) (Rus)

[Characteristics of the functional state of the gastroduodenal system in complicated duodenal ulcers] Chirkov IuV. **Vestn Khir** 1989 May;142(5):16–20 (Eng. Abstr.) (Rus)

[Results of repeated studies of gastric acid secretion in patients with duodenal ulcer before the operation] Nechai AI, et al. **Vestn Khir** 1989 Sep;143(9):29–32 (Eng. Abstr.) (Rus)

[The effect of changes in the rate of gastric emptying on the development of dumping syndrome after vagotomy] Zuev VK, et al. **Vestn Khir** 1989 Dec;144(12):43–5 (Eng. Abstr.) (Rus)

[Disorders of the motor and evacuatory functions of the stomach and duodenum in peptic ulcer patients] Pavlovskii MP, et al. **Vrach Delo** 1990 Jun;(6):48–52 (Eng. Abstr.) (Rus)

[Disorder in the ratio of cortisol and insulin secretion in peptic ulcer and following vagotomy] Shvarts VIa, et al. **Vrach Delo** 1989 Oct;(10):34–7 (Eng. Abstr.) (Rus)

[The types of mucus and electrolyte secretion in chronic gastritis and peptic ulcer] Skliarov Ela, et al. **Vrach Delo** 1990 Jun;(6):55–7 (Rus)

[Perforated duodenal ulcer in children] Rodríguez Gaspar MA, et al. **Rev Esp Enferm Apar Dig** 1989 Nov;76(5):485–6 (Eng. Abstr.) (Spa)

[Physical exercise and gastric acid secretion] Canelles P, et al. **Rev Esp Enferm Dig** 1990 Mar;77(3):179–84 (Eng. Abstr.) (Spa)

[Duodenal ulcer in children. Apropos of 28 cases] Escobar Castro H, et al. **Rev Esp Enferm Dig** 1990 Mar;77(3):185–8 (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

Oxygen-derived free radicals and the prevention of duodenal ulcer relapse: a new approach. Salim AS. **Am J Med Sci** 1990 Jul;300(1):1–6; discussion 7–8

Antiulcer effects of 3-[[[2-(3,4-dimethoxyphenyl)ethyl] carbamoyl]methyl]-amino-N-methylbenzamide in experimental gastric and duodenal ulcers. Asano M, et al. **Arzneimittelforschung** 1990 Mar;40(3):276–81

Relapse rates after duodenal ulcer healing—apples or pears? [letter; comment] Johnston DA, et al. **Gut** 1989 Sep; 30(9):1299–300 Comment on: Gut 1988 Dec;29(12):1748–54.

Acyclovir in the prevention of duodenal ulcer recurrence. Rune SJ, et al. **Gut** 1990 Feb;31(2):151–2

Effects of ALE-36 on gastric secretion, and gastric and duodenal ulcers induced in rats. Kyoi T, et al. **Scand J Gastroenterol Suppl** 1989;162:182–5

[Basal blood gastrin is normal during the long-term preventive treatment of recurrence of duodenal ulcer with ranitidine 150 mg daily (letter)] Mignon M, et al. **Gastroenterol Clin Biol** 1990;14(4):407–8 (Fre)

[Cytoprotection of the gastric and duodenal mucosa (review of foreign literature)] Radbil' OS. **Klin Med (Mosk)** 1990 Apr;68(4):31–8 (64 ref.) (Rus)

[Prevention of gastropathy induced by NSAIDs] **Med Clin (Barc)** 1990 May 26;94(20):SUPPL 1 P. (Spa)

PSYCHOLOGY

Pain and personality in duodenal ulcer: a preliminary report. Magni G, et al. **Psychol Rep** 1990 Jun;66(3 Pt 1):763–7

[Clinical conference at the Brazilian Institute for Studies and Research in Gastroenterology] **Arq Gastroenterol** 1988 Oct-Dec;25(4):229–35 (Por)

RADIOTHERAPY

[State of the prostaglandin and cyclic nucleotide system in microwave resonance therapy of peptic ulcer] Zhukova TA, et al. **Klin Med (Mosk)** 1990 Mar;68(3):99–101 (Rus)

[Reaction of the autonomic nervous system of children to a magnetic field] Nikulin MA, et al. **Pediatriia** 1989; (9):59–62 (Eng. Abstr.) (Rus)

[Experience in the use of millimeter-range electromagnetic radiation in the treatment and prevention of gastric and duodenal peptic ulcer] Poslavskiĭ MV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Jul–Aug;(4):31–6 (Rus)

[The use of millimeter-range electromagnetic radiation for treating peptic ulcer] Dogotar' VB, et al. **Vrach Delo** 1990 May;(5):6–9 (Eng. Abstr.) (Rus)

REHABILITATION

[Rehabilitation of patients with ulcers under hospital conditions] Kovalenko MF, et al. **Voen Med Zh** 1989 Jun; (6):29–30 (Rus)

[The use of physical factors on the neck area in gastric and duodenal peptic ulcer] Vygodner EB, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):41–5 (Eng. Abstr.) (Rus)

SURGERY

Recurrences after highly selective vagotomy in refractory and non-refractory duodenal ulcer disease. Penninckx F, et al. **Acta Chir Belg** 1990 Mar–Apr;90(2):41–5

Vagotomy and gastroenterostomy. 15-year follow up of 175 patients. Nobles ER Jr. **Am Surg** 1966 Mar;32(3):177–82

Intra-operative testing for completeness of vagotomy [editorial] Hugh TB. **Aust N Z J Surg** 1988 Jun;58(6):441–2

Proximal gastric vagotomy for duodenal ulcer disease—whither to now or to wither now? Jamieson GG. **Aust N Z J Surg** 1988 Jun;58(6):443–6

Simple closure of perforated duodenal ulcer: a prospective evaluation of a conservative management policy. Bornman PC, et al. **Br J Surg** 1990 Jan;77(1):73–5

Barium-meal examination following Billroth-I gastrectomy. Dudley HA, et al. **Br J Surg** 1966 May;53(5):403–7

Comparison of highly selective vagotomy with truncal vagotomy and pyloroplasty: results at 8–15 years. Koruth NM, et al. **Br J Surg** 1990 Jan;77(1):70–2

Highly selective vagotomy 5–15 years on. Macintyre IM, et al. **Br J Surg** 1990 Jan;77(1):65–9

Gastric emptying for solids in patients with duodenal ulcer before and after highly selective vagotomy. Mistiaen W, et al. **Dig Dis Sci** 1990 Mar;35(3):310–6

Vagotomy for duodenal ulcer resistant to H2-receptor antagonists. Vassilakis JS, et al. **Digestion** 1989;44(1):1–6

Is antral gastrin important in the resistance of duodenal ulcers to H2 receptor antagonists or in recurrent ulceration after highly selective vagotomy? Primrose JN, et al. **Gut** 1990 Jul;31(7):763–6

Long-term results of highly selective vagotomy for the treatment of duodenal ulcer. Raab M, et al. **Hepatogastroenterology** 1989 Oct;36(5):357–62

Anterior seromyotomy with posterior truncal vagotomy in chronic duodenal ulcer. Hakhoo S, et al. **Indian J Gastroenterol** 1990 Jan;9(1):15–6

Surgery in uncomplicated duodenal ulcer: are we close to the ideal operation? [editorial] Kaushik SP. **Indian J Gastroenterol** 1990 Jan;9(1):11–2

An evaluation of the relative utility of different criteria of positivity in assessing the response to insulin induced hypoglycemic stimulation of the vagus as test for completeness of vagotomy. Ananthakrishnan N, et al. **Indian J Med Sci** 1989 Jul;43(7):184–8

Serum pepsinogen before and after proximal gastric vagotomy in duodenal ulcer treatment. D'Albuquerque LA, et al. **Int Surg** 1989 Oct–Dec;74(4):229–31

Unusual postoperative sequelae of duodenal ulcer. Arora A, et al. **J Assoc Physicians India** 1990 May;38(5):347–9

Vibrio cholerae bacteremia associated with gastrectomy. Toeg A, et al. **J Clin Microbiol** 1990 Mar;28(3):603–4

Towards selecting the vagotomy and avoiding diarrhoea. Milewski PJ. **J R Coll Surg Edinb** 1990 Feb;35(1):11–5

Postoperative results of distal partial gastrectomy, selective vagotomy plus antrectomy, and selective proximal vagotomy for duodenal ulcers. Misumi A, et al. **Jpn J Surg** 1989 Nov;19(6):708–17

Highly selective vagotomy in the treatment of complicated duodenal ulcer. Falk GL, et al. **Med J Aust** 1990 Jun 4; 152(11):574–6

Long term clinical results after proximal gastric vagotomy. Soper NJ, et al. **Surg Gynecol Obstet** 1989 Dec; 169(6):488–94

Survival after vagotomy: results of the Aarhus County Vagotomy Trial. Ditlevsen S. **World J Surg** 1989 Nov–Dec; 13(6):776–80; discussion 780–1

[Perforated ulcer. The first episode of ulcer. Vagotomy? What type?] Favre JP. **Ann Chir** 1990;44(4):269–71; discussion 271–2 (19 ref.) (Fre)

[What are the surgical indications for non-complicated duodenal and gastric ulcers?] Hollender LF, et al. **Bull Acad Natl Med** 1989 Apr;173(4):377–85; discussion 385–6 (Eng. Abstr.) (Fre)

[Mechanical anastomosis on the second duodenum. Value, technics and indications] Dumeige F, et al. **Chirurgie** 1989; 115(4–5):304–10; discussion 311 (Eng. Abstr.) (Fre)

[Evaluation of the surgical treatment of duodenal ulcers. Apropos of 616 patients operated on in Bujumbura] Bazira L, et al. **Med Trop (Mars)** 1990 Apr;50(2):191–4 (Eng. Abstr.) (Fre)

[Treatment of bleeding duodenal and stomach ulcer] Becker HD, et al. **Chirurg** 1990 Apr;61(4):222–7 (21 ref.) (Ger)

[Elective interventions for gastroduodenal ulcer] Junginger T, et al. **Chirurg** 1990 Jan;61(1):10–5 (23 ref.) (Ger)

[Emergency interventions in gastroduodenal ulcer] Schiessel R, et al. **Chirurg** 1990 Jan;61(1):16–21 (Ger)

[The place of selective proximal vagotomy in complicated duodenal ulcers] Armbruster C, et al. **Wien Klin Wochenschr** 1989 Sep 29;101(18):615–7 (Eng. Abstr.) (Ger)

[Peptic ulcer with a visible non-bleeding vascular wall—early elective surgery or endoscopic therapy?] Sandbichler P, et al. **Wien Klin Wochenschr** 1989 Nov 10; 101(21):736–8 (Eng. Abstr.) (Ger)

[New aspects of surgical therapy of acute gastroduodenal hemorrhage] Geissler N, et al. **Zentralbl Chir** 1989; 114(16):1059–63 (Eng. Abstr.) (Ger)

[Treatment of alkaline gastritis and recurrent ulcer following Roux-en-Y gastrectomy and construction of a Rumpf antireflux valve] Koussidis A, et al. **Zentralbl Chir** 1990; 115(2):95–102 (Eng. Abstr.) (Ger)

[Almost 40 years' survival with the "Biebl stomach"] Mokros W, et al. **Zentralbl Chir** 1990;115(6):359–63 (Ger)

[Postoperative status of the duodenal ulcer patient. Review and personal studies] Rüth UD, et al. **Zentralbl Chir** 1989; 114(16):1064–71 (41 ref.) (Eng. Abstr.) (Ger)

[Clinical observations of cancer in the stomach after surgery] Schröder H, et al. **Zentralbl Chir** 1989;114(14):909–18 (Eng. Abstr.) (Ger)

[The indication for surgery in the treatment of duodenal ulcer. Current trends] Lemma F, et al. **Minerva Med** 1989 Aug;80(8):829–32 (Ita)

[Hemorrhagic juxtapapillary duodenal ulcer with choledochal and Wirsung's duct stenosis and duodenojejunal fistula following biliojejunal en-Y diversion. The surgical solution] Funariu G, et al. **Rev Chir [Chir]** 1989 Jul–Aug;38(4):291–8 (Eng. Abstr.) (Rum)

[Juxtapapillary ulcer] Stăncescu M, et al. **Rev Chir [Chir]** 1989 Jul–Aug;38(4):261–7 (Eng. Abstr.) (Rum)

[Vagotomy in the surgical treatment of pyloroduodenal ulcers] Batvinkov NI, et al. **Khirurgiia (Mosk)** 1989 Oct; (10):19–23 (Eng. Abstr.) (Rus)

[Use of fats in early enteral feeding] Bondarenko VA, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):61–4 (Eng. Abstr.) (Rus)

[Pathogenesis of dumping syndrome] Gadzhiev AS. **Khirurgiia (Mosk)** 1990 Mar;(3):66–70 (Eng. Abstr.) (Rus)

[Late results od selective proximal vagotomy with or without pyloroplasty in uncomplicated chronic duodenal ulcer] Gi ldebrandt Iu, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):84–8 (Eng. Abstr.) (Rus)

[Technical variants of performing the proximal gastric vagotomy (review of the literature)] Gorbunov VN, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):143–8 (83 ref.) (Rus)

[Clinical features and surgical treatment of postbulbar ulcers of the duodenum] Lobzhanidze GV. **Khirurgiia (Mosk)** 1989 Oct;(10):29–34 (Eng. Abstr.) (Rus)

[Duodenal diverticulum associated with hiatal hernia after vagotomy] Makhovskiĭ VZ, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):102 (Rus)

[Selection of the method of reoperation after closure of perforated duodenal ulcer] Manevich VL, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):31–5 (Eng. Abstr.) (Rus)

[Forced duodenectomy with subsequent transplantation of the major duodenal papilla to the jejunum during gastric resection] Medvedev AL, et al. **Khirurgiia (Mosk)** 1989 Oct; (10):129 (Rus)

[Treatment of giant duodenal ulcers] Mitiuk II, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):120–2 (Rus)

[Postoperative deformities of the stomach] Polous IuM, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):101–4 (Rus)

[Organ-sparing operations and the time of healing of duodenal ulcers (review of the literature)] Pomelov VS, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):110–5 (54 ref.) (Rus)

[Vagotomy in the treatment of penetrating duodenal ulcers] Seniutovich RV, et al. **Khirurgiia (Mosk)** 1989 Oct; (10):14–9 (Rus)

[Corrective and reconstructive operations in post-vagotomy syndromes] Vakhidov VV, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):73–7 (Eng. Abstr.) (Rus)

[Sphincter-sparing operations in perforated duodenal ulcers] Beliaev MV, et al. **Klin Khir** 1989;(8):48–9 (Eng. Abstr.) (Rus)

[Surgical treatment of patients with giant duodenal ulcers] Dotsenko AP, et al. **Klin Khir** 1989;(8):45–8 (Eng. Abstr.) (Rus)

[Treatment of complicated giant duodenal ulcers] Goer IaV, et al. **Klin Khir** 1989;(8):43–5 (Eng. Abstr.) (Rus)

[Laser vagotomy in the treatment of duodenal ulcer] Grubnik VV, et al. **Klin Khir** 1989;(8):9–10 (Eng. Abstr.) (Rus)

[Recurrence of duodenal ulcer after selective proximal vagotomy] Gusak VK, et al. **Klin Khir** 1989;(8):68–71 (84 ref.) (Rus)

[Organ-sparing operations in bleeding ulcers of the pylorus and duodenum] Kharaberiush VA, et al. **Klin Khir** 1989; (8):6–8 (Eng. Abstr.) (Rus)

[A method of surgical treatment of bleeding duodenal ulcer of large dimensions] Komorovskiĭ IuT, et al. **Klin Khir** 1990;(2):77–8 (Rus)

[Prevention of suture incompetence of the duodenal stump after gastrectomy] Kostin AE. **Klin Khir** 1989;(10):70–1 (Rus)

[Enteral tube feeding of patients operated on for stomach and duodenal diseases under prolonged epidural anesthesia including morphine] Lobastov SA, et al. **Klin Khir** 1990; (5):53–4 (Rus)

[Criteria of evaluation of the duration of temporary disability after selective proximal vagotomy] Matveenko LI, et al. **Klin Khir** 1989;(8):32–4 (Eng. Abstr.) (Rus)

[Pathophysiological substantiation of the use of vagotomy and gastrectomy in duodenal ulcer] Mysh VG. **Klin Khir** 1989;(8):63–5 (Rus)

[Reoperations in peptic and recurrent duodenal ulcer] Nazirov FN. **Klin Khir** 1989;(10):75–6 (Rus)

[Intraoperative evaluation of the completeness of vagotomy in patients with perforated duodenal ulcer] Pinskiĭ SB, et al. **Klin Khir** 1989;(8):54–7 (Eng. Abstr.) (Rus)

[Causes of unfavorable results of vagotomy and their prevention and correction] Purmalis VR, et al. **Klin Khir** 1989;(8):72–3 (Rus)

[Method of suprapyloric resection of the stomach for exclusion in difficult to remove duodenal ulcers] Reviakin SA. **Klin Khir** 1990;(2):73–4 (Rus)

[Various structural and functional mechanisms of development of peptic ulcers after vagotomy] Savinskiĭ GA, et al. **Klin Khir** 1989;(8):13–5 (Eng. Abstr.) (Rus)

[Late results of the surgical treatment of duodenal ulcer and various problems of rehabilitation of patients after surgery] Shuliarenko VA, et al. **Klin Khir** 1989;(8):65–7 (Rus)

[Acupuncture therapy in the rehabilitation of patients with post-vagotomy disorders] Spivak VP, et al. **Klin Khir** 1989; (8):67–8 (Rus)

[Possibilities of the surgical treatment of post-vagotomy and post-gastrectomy diarrhea] Vitebskiĭ IaD, et al. **Klin Khir** 1989;(10):77 (Rus)

[Surgical tactics in complicated double ulcers of the pylorus and duodenum] Zaltsev VT, et al. **Klin Khir** 1989;(8):4–5 (Eng. Abstr.) (Rus)

[Significance of the initial status of the patient for the effectiveness of laser therapy in peptic ulcer] Matiushichev VB, et al. **Klin Med (Mosk)** 1989 Sep;67(9):78–81 (Eng. Abstr.) (Rus)

[Characteristics of diagnosis and surgical treatment of giant gastroduodenal ulcers] Nikolaev NO, et al. **Klin Med (Mosk)** 1989 Sep;67(9):74–8 (Eng. Abstr.) (Rus)

[Surgical treatment of gastroduodenal ulcers penetrating to the pancreas] Ermolaev VA, et al. **Sov Med** 1990;(2):60–2 (Rus)

[A method of laser seromyotomy of the stomach] Skobelkin OK, et al. **Sov Med** 1990;(3):23–5 (Eng. Abstr.) (Rus)

[Surgical choices in peptic ulcer associated with duodenal diverticula] Bugaev AI, et al. **Vestn Khir** 1990 Jan; 144(1):37–9 (Eng. Abstr.) (Rus)

[Stomach resection in postbulbar bleeding ulcers of the duodenum] Chernobrovyĭ NP, et al. **Vestn Khir** 1990 Feb; 144(2):103–5 (Rus)

[Hydrolysis and carbohydrate absorption of the small intestine after selective proximal vagotomy] Chudnova VS, et al. **Vestn Khir** 1989 Apr;142(4):7–11 (Eng. Abstr.) (Rus)

[Function of the esophagogastric junction after trans-gastric selective proximal vagotomy] Gorbashko AI, et al. **Vestn Khir** 1990 Mar;144(3):23–6 (Eng. Abstr.) (Rus)

[Characteristics of acid-producing function of the stomach after transgastric selective proximal vagotomy] Gorbashko AI, et al. **Vestn Khir** 1990 Feb;144(2):21–3 (Eng. Abstr.) (Rus)

[Planned surgery of "retrobulbar" duodenal ulcers] Kurygin AA, et al. **Vestn Khir** 1989 Jul;143(7):96–8 (Rus)

[Status of the emptying function of the stomach in patients with duodenal ulcer after vagotomy with draining operations] Lebedev LV, et al. **Vestn Khir** 1989 Sep; 143(9):26–9 (Eng. Abstr.) (Rus)

[Late results of gastrectomy and truncal vagotomy in duodenal ulcer] Marfin BI, et al. **Vestn Khir** 1989 Sep; 143(9):24–5 (Eng. Abstr.) (Rus)

[Gastric ischemia after selective proximal vagotomy] Martov IuB. **Vestn Khir** 1989 Apr;142(4):41–2 (Rus)

[Prognosis of recurrence of peptic ulcer after isolated selective proximal vagotomy] Pantsyrev IuM, et al. **Vestn Khir** 1989 Sep;143(9):17–24 (Eng. Abstr.) (Rus)

[Prevention of incompetence of duodenal stump sutures after gastrectomy] Podlevskiĭ AI, et al. **Vestn Khir** 1989 Sep; 143(9):34–7 (Eng. Abstr.) (Rus)

[Effect of the surgical treatment of duodenal ulcer on the immune status] Pogodaev NN, et al. **Vestn Khir** 1989 May; 142(5):20–2 (Eng. Abstr.) (Rus)

[Value of the diagnosis of duodenogastric reflux in selecting the method of surgical treatment and predicting its results in patients with duodenal ulcer] Purmalis VR, et al. **Vestn Khir** 1989 Sep;143(9):32–4 (Eng. Abstr.) (Rus)

[Prevention of post-vagotomy syndromes in the treatment of duodenal ulcer] Seleznev VN, et al. **Vestn Khir** 1989 Jun;142(6):89–91 (Eng. Abstr.) (Rus)

[Surgical treatment of postbulbar duodenal ulcer] Spynu AV, et al. **Vestn Khir** 1990 Jan;144(1):35–7 (Eng. Abstr.) (Rus)

[The treatment of recurrent duodenal ulcers after vagotomy] Godlevskiĭ AI, et al. **Vrach Delo** 1989 Oct;(10):37–8 (Eng. Abstr.) **(Rus)**

[Treatment procedures in patients with duodenal ulcer] Kozak IA. **Vrach Delo** 1989 Jul;(7):23–6 (Eng. Abstr.) **(Rus)**

[Vagotomy of the oxyntic cells associated with simple closing as surgical treatment of perforated duodenal ulcer. A comparative study with simple closing alone] Fernández Dovale M, et al. **Rev Esp Enferm Apar Dig** 1989 Dec;76(6 Pt 1):529–34 (Eng. Abstr.) **(Spa)**

[Results of elective surgery of duodenal ulcer] Llanos O, et al. **Rev Med Chil** 1988 Oct;116(10):1041–6 (Eng. Abstr.) **(Spa)**

[An inquiry on ulcer surgery in Sweden 1956–1986: continuous decline in ventricular and duodenal ulcer surgery] Gustavsson S, et al. **Lakartidningen** 1989 Oct 4; 86(40):3357–8, 3361 **(Swe)**

THERAPY

Duodenogastric reflux before and after surgical or medical therapy for duodenal ulcer. Avgerinos A, et al. **Am J Gastroenterol** 1990 Feb;85(2):150–3

Gastric secretory changes resulting from gastric hypothermia. McIntyre JA, et al. **Br J Surg** 1966 May; 53(5):439–45

Transnasogastric drainage of a perforated duodenal ulcer: technical note. Sheline M, et al. **Cardiovasc Intervent Radiol** 1990 Feb–Mar;13(1):55–6

Hypnotherapy for selected gastrointestinal disorders. Whorwell PJ. **Dig Dis** 1990;8(4):223–5

Conservative management of perforated peptic ulcer [see comments] **Lancet** 1989 Dec 16;2(8677):1429–30 (18 ref.) Comment in: Lancet 1990 Feb 3;335(8684):293–4. Comment in: Lancet 1990 Feb 17;335(8686):413. Comment in: Lancet 1990 Mar 17;335(8690):673.

Increased relapse of duodenal ulcers in patients treated with cognitive psychotherapy [letter] Wilhelmsen I, et al. **Lancet** 1990 Aug 4;336(8710):307

Endoscopic injection therapy for acute upper GI bleeding. Valenzuela GA, et al. **Va Med** 1989 Dec;116(12):507–9

Emergency endoscopy: a basis for therapeutic decisions in the treatment of severe gastroduodenal bleeding. Pimpl W, et al. **World J Surg** 1989 Sep–Oct;13(5):592–7

[Prevention of ulcer recurrence and complications in duodenal ulcer disease. Maintenance treatment] Mignon M. **Gastroenterol Clin Biol** 1990;14(2 (Pt 3)):T1–7 (36 ref.) **(Fre)**

[Dissecting duodenal hematoma: severe complication of endoscopic hemostasis of hemorrhagic duodenal ulcer (letter)] Peillon C, et al. **Gastroenterol Clin Biol** 1990; 14(3):289–91 **(Fre)**

[Therapy of resistant duodenal ulcer] Vigneri S, et al. **Minerva Med** 1989 Nov;80(11):1205–10 (Eng. Abstr.) **(Ita)**

[A study of bleeding peptic ulcer in the elderly in the view of risk factors] Moritomo H, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):206–13 (Eng. Abstr.) **(Jpn)**

[Evaluation of the results of combined treatment of patients with duodenal ulcer using factor analysis] Kabanov AN, et al. **Klin Khir** 1989;(8):57–9 (Eng. Abstr.) **(Rus)**

[Clinico–economical effectiveness of conservative and surgical treatment of duodenal ulcer (results of 5–year study)] Polous IuM, et al. **Klin Khir** 1989;(8):22–4 (Eng. Abstr.) **(Rus)**

[Various new approaches to the treatment of patients with uncomplicated peptic ulcer] Mansurov KhKh. **Klin Med (Mosk)** 1990 Jan;68(1):79–82 (Eng. Abstr.) **(Rus)**

[A method of increasing the effectiveness of anti–ulcer therapy] Mysh VG, et al. **Klin Med (Mosk)** 1989 Oct; 67(10):66–8 (Eng. Abstr.) **(Rus)**

[Sanatorium treatment of children with peptic ulcer] Stepanenko VM, et al. **Pediatriia** 1989;(8):107–8 **(Rus)**

[Organization of ambulatory care of patients with duodenal ulcer] Bredikhina NA. **Sov Med** 1989;(7):57–60 **(Rus)**

[The outlook for the ambulatory treatment of adolescents with duodenal peptic ulcer] Filimonbov RM, et al. **Ter Arkh** 1990;62(2):136–8 (Eng. Abstr.) **(Rus)**

[The efficacy of psychotherapy in duodenal peptic ulcer] Gubachev IuM, et al. **Zh Nevropatol Psikhiatr** 1990; 90(5):101–6 (Eng. Abstr.) **(Rus)**

URINE

Urine acid output as a test of completeness of vagotomy. Johnson CD, et al. **Br J Surg** 1990 Apr;77(4):417–20

VETERINARY

Ulcerative duodenitis with luminal constriction in two horses. Ettlinger JJ, et al. **J Am Vet Med Assoc** 1990 May 15; 196(10):1628–30

DUODENITIS

CHEMICALLY INDUCED

A histological study of the effects of nonsteroidal anti–inflammatory drugs (NSAIDs) on the gastric and duodenal mucosa. Moghal N, et al. **JPMA** 1989 Nov; 39(11):287–90

Prophylactic and therapeutic role of rioprostil in NSAIDs induced gastroduodenal lesions. Paladini G, et al. **Scand J Gastroenterol Suppl** 1989;164:242–5; discussion 245–6

COMPLICATIONS

Campylobacter pylori and its role in peptic ulcer disease. Tytgat GN, et al. **Gastroenterol Clin North Am** 1990 Mar; 19(1):183–96 (68 ref.)

[Esophagogastroduodenitis in the newborn. Apropos of 32 cases] de Boissieu D, et al. **Arch Fr Pediatr** 1989 Dec; 46(10):711–5 (25 ref.) (Eng. Abstr.) **(Fre)**

[Erosive–hemorrhagic duodenitis: natural history and management] Cataldo MG, et al. **Minerva Dietol Gastroenterol** 1989 Jul–Sep;35(3):151–4 (Eng. Abstr.) **(Ita)**

[Campylobacter pylori and late recurrences of duodenal ulcer] Loginov AS, et al. **Klin Med (Mosk)** 1989 Aug; 67(8):48–50 **(Rus)**

[Incidence and intensity of gastroesophageal reflux in children with chronic gastroduodenitis] Salekh KhSh. **Pediatriia** 1989;(8):13–5 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Helicobacter pylori–related gastroduodenal disease in children. Diagnostic utility of enzyme–linked immunosorbent assay. Glassman MS, et al. **Dig Dis Sci** 1990 Aug;35(8):993–7

Endoscopic and histopathological study of duodenitis. Chawla LS, et al. **J Indian Med Assoc** 1989 Oct; 87(10):233–5

G–cells and gastrinaemia in chronic nonspecific bulbitis. Domenichini E, et al. **Scand J Gastroenterol Suppl** 1989; 167:21–2

A double–blind comparison of gastrointestinal effects of ibuprofen standard and ibuprofen sustained release assessed by means of endoscopy and 51–Cr–labelled erythrocytes. Aabakken L, et al. **Scand J Rheumatol** 1989;18(5):307–13

[Erosive duodenitis. Clinical study of 287 cases] Gast P, et al. **Acta Gastroenterol Belg** 1989 Jan–Apr;52(1–2):9–16 (Eng. Abstr.) **(Fre)**

[Chronic nonspecific duodenitis: myth or reality?] Cijevschi C, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Oct–Dec; 93(4):655–7 (Eng. Abstr.) **(Rum)**

[Diagnosis of Campylobacter infection in patients with diseases of the stomach and duodenum] Masevich TsG, et al. **Klin Med (Mosk)** 1989 Nov;67(11):80–1 (Eng. Abstr.) **(Rus)**

[Diagnostic value of various methods of detection of Campylobacter pylori in patients with gastroduodenal pathology] Rozhavin MA, et al. **Klin Med (Mosk)** 1989 Aug;67(8):38–43 **(Rus)**

[A rapid method of diagnosis of gastric and duodenal Campylobacter pylori infections] Starostin BD, et al. **Klin Med (Mosk)** 1989 Aug;67(8):50–2 **(Rus)**

[Clinico–endoscopic characteristics of gastroduodenal Campylobacter infection in children] Korovina NA, et al. **Pediatriia** 1989;(8):9–13 (Eng. Abstr.) **(Rus)**

[Echography of the stomach and duodenum in children in health and disease] Sapozhnikov VG. **Vestn Rentgenol Radiol** 1989 Sep–Oct;(5):21–5 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Helicobacter pylori and bismuth subnitrate [letter] Sodeman WA Jr. **Am J Gastroenterol** 1990 Sep;85(9):1200–1

Double–blind trial of pirenzepine versus sucralfate in the treatment of endoscopic duodenitis. Guslandi M, et al. **Clin Ther** 1990 Jan–Feb;12(1):26–30

Rioprostil in the treatment of duodenal erosions. Guslandi M, et al. **Scand J Gastroenterol Suppl** 1989;164:174–6; discussion 176–7

Protective effect of rioprostil on indomethacin–induced lesions of gastric and duodenal mucosa in healthy volunteers. Vlahov V, et al. **Scand J Gastroenterol Suppl** 1989;164:169–73

[Experience with the treatment of duodenal ulcer associated with Campylobacter pylori infection by combined use of anti–secretory and antibacterial drugs] Grigo'rev PIa, et al. **Klin Med (Mosk)** 1989 Aug;67(8):52–5 **(Rus)**

[Experience with the use of a new autonomic drug butyroxan in patients with gastroduodenal pathology and autonomic dysfunction] Gonchar NV, et al. **Pediatriia** 1990;(2):109–10 **(Rus)**

ENZYMOLOGY

Low activities of disaccharidases associated with inflamed duodenal bulb mucosa. Jönsson KA, et al. **Hepatogastroenterology** 1990 Apr;37(2):217–22

EPIDEMIOLOGY

Changes in peptic ulcer and gastritis/duodenitis in Great Britain, 1970–1985. Bloom BS, et al. **J Clin Gastroenterol** 1990 Feb;12(1):100–8

ETIOLOGY

Nodular duodenitis and single duodenal nodules. Fernandez–Melone JH, et al. **Am Surg** 1990 Mar; 56(3):175–7

[Campylobacter pylori in diseases of the stomach and duodenum] Regula A, et al. **Wiad Lek** 1989 Aug 15–Sep 15;42(16–18):943–51 (49 ref.) (Eng. Abstr.) **(Pol)**

[Role of immunologic disorders in the pathogenesis of chronic gastroduodenitis in children] Akhmetova RA. **Pediatriia** 1989;(10):111 **(Rus)**

IMMUNOLOGY

[Indicators of local and general immunity in children with gastroduodenitis during its complex treatment] Sheliapina VV, et al. **Pediatriia** 1989;(8):19–22 (Eng. Abstr.) **(Rus)**

METABOLISM

[Indicators of lipid peroxidation in duodenal ulcer and chronic gastroduodenitis in children] Zhukova EA, et al. **Pediatriia** 1989;(8):15–8 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Campylobacter pylori–related gastrointestinal disease in children. Incidence and clinical findings. Glassman MS, et al. **Dig Dis Sci** 1989 Oct;34(10):1501–4

An endoscopic study of Campylobacter pylori in an Israeli population. Konikoff F, et al. **Isr J Med Sci** 1989 Nov; 25(11):661–3

Helicobacter pylori and the pathogenesis of gastroduodenal inflammation. Blaser MJ. **J Infect Dis** 1990 Apr; 161(4):626–33 (69 ref.)

PATHOLOGY

Progress in the pathology of gastritis and duodenitis. Dixon MF. **Curr Top Pathol** 1990;81:1–40 (220 ref.)

Cell renewal in non–specific duodenitis, ulcer–related duodenitis and duodenal ulcer. Experiments in Mastomys (Praomys natalensis). Smedley FH, et al. **Digestion** 1990; 45(2):72–9

Upper gastro–intestinal mucosal changes in patients with chronic renal failure. Goenka MK, et al. **J Assoc Physicians India** 1989 Sep;37(9):564–6

Necrotizing duodenitis—a stress–associated lesion? Tuso P, et al. **J Clin Gastroenterol** 1990 Feb;12(1):29–32

Pathology of chronic gastritis and duodenitis. Yardley JH. **Monogr Pathol** 1990;(31):69–143 (237 ref.)

Chronic nonspecific duodenitis. A multiple biopsy study of the duodenal bulb in health and disease. Kreuning J, et al. **Scand J Gastroenterol Suppl** 1989;167:16–20

[Clinico–immunomorphological characteristics of the mucosa of the distal segments of the large intestine in children with gastroduodenitis] Kovaleva GA, et al. **Pediatriia** 1990; (5):32–7 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

[Characteristics of arterial and venous hemodynamics in peptic ulcer and chronic gastroduodenitis] Uspenskiĭ VM, et al. **Klin Med (Mosk)** 1990 Mar;68(3):101–4 **(Rus)**

RADIOGRAPHY

[Value and reliability of hypotonic duodenography in chronic pancreatitis] Reuther G, et al. **Rontgenblatter** 1990 Feb; 43(2):72–7 (Eng. Abstr.) **(Ger)**

URINE

[Hexosamine excretion in chronic gastroduodenitis and gastroduodenal ulcer] Riabinkina LF, et al. **Sov Med** 1990; (2):62–4 **(Rus)**

VETERINARY

Ulcerative duodenitis with luminal constriction in two horses. Ettlinger JJ, et al. **J Am Vet Med Assoc** 1990 May 15; 196(10):1628–30

DUODENOGASTRIC REFLUX

Evaluation of duodenogastric reflux in gallstone disease before and after simple cholecystectomy. Cabrol J, et al. **Am J Surg** 1990 Sep;160(3):283–6

Duodenogastric reflux of bile acids, gastrin and parietal cells, and gastric acid secretion before and 6 months after cholecystectomy. Lorusso D, et al. **Am J Surg** 1990 Jun; 159(6):575–8

COMPLICATIONS

Reflux gastritis. Dixon MF. **Acta Gastroenterol Belg** 1989 May–Aug;52(3–4):292–6

Duodenogastric reflux in patients with Barrett's esophagus. Waring JP, et al. **Dig Dis Sci** 1990 Jun;35(6):759–62

Induction of pancreatic tumours by longterm duodenogastric reflux. Taylor PR, et al. **Gut** 1989 Nov;30(11):1596–600

[The influence of reflux of bile and pancreatic juice on gastric carcinogenesis in rats] Kojima H, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):818–26 (Eng. Abstr.) **(Jpn)**

[Clinical significance of duodenogastric reflux (review of the literature)] Reut AA, et al. **Khirurgiia (Mosk)** 1990 Mar; (3):115–8 (53 ref.) **(Rus)**

DIAGNOSIS

Clinical use of 24–hour gastric pH monitoring vs o–diisopropyl iminodiacetic acid (DISIDA) scanning in the diagnosis of pathologic duodenogastric reflux. Stein HJ,

et al. **Arch Surg** 1990 Aug;125(8):966–70; discussion 970–1
Quantification of duodenogastric reflux in gastroduodenal peptic ulcer and in gastric operation patients, using a 24–h gastric pH measurement as a quantification technique. Robles Campos R, et al. **Br J Surg** 1990 Apr;77(4):428–31
Ambulatory 24–hr pH monitoring of esophagus, fundus, and antrum. A new technique for simultaneous study of gastroesophageal and duodenogastric reflux. Mattioli S, et al. **Dig Dis Sci** 1990 Aug;35(8):929–38
Duodenogastric reflux: the state of the art [comment] Markowitz JF. **J Pediatr Gastroenterol Nutr** 1990 Apr; 10(3):287–9 (20 ref.) Comment on: J Pediatr Gastroenterol Nutr 1990 Apr;10(3):327–34.
[Comparison of endoscopy and the milk 99mTc–EHIDA test in assessing duodenogastric reflux] Cai J, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Nov;28(11):664–6, 701 (Eng. Abstr.) **(Chi)**
[Value of the diagnosis of duodenogastric reflux in selecting the method of surgical treatment and predicting its results in patients with duodenal ulcer] Purmalis VR, et al. **Vestn Khir** 1989 Sep;143(9):32–4 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Duodenogastric reflux before and after surgical or medical therapy for duodenal ulcer. Avgerinos A, et al. **Am J Gastroenterol** 1990 Feb;85(2):150–3
Is there an abnormal fasting duodenogastric reflux in nonulcer dyspepsia? Bost R, et al. **Dig Dis Sci** 1990 Feb; 35(2):193–9
Biliary reflux after cholecystectomy: a prospective study. Nano M, et al. **Hepatogastroenterology** 1990 Apr; 37(2):233–4
Cholecystectomy, duodeno–gastric reflux and polyposis. Spigelman AD, et al. **J R Soc Med** 1989 Jul;82(7):436–7
Duodenogastric bile reflux before and after selective proximal vagotomy with and without pyloroplasty. Eriksson B, et al. **Scand J Gastroenterol** 1990 Feb;25(2):161–4
[Duodenogastric reflux in patients with peptic ulcer] Fedorov AV, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):27–31 (Eng. Abstr.) **(Rus)**
[Treatment of complicated giant duodenal ulcers] Goer IaV, et al. **Klin Khir** 1989;(8):43–5 (Eng. Abstr.) **(Rus)**
[The Roux syndrome and its clinical significance] Saenko VF, et al. **Klin Khir** 1989;(8):19–21 (Eng. Abstr.) **(Rus)**
[Deep duodenobiliary reflux after supraduodenal choledochoduodenostomy] Skiba VV, et al. **Klin Khir** 1989; (9):59–60 **(Rus)**
[Upper digestive hemorrhage as a complication of postoperative reflux gastritis] Martínez Ródenas F, et al. **Rev Esp Enferm Dig** 1990 Mar;77(3):213–6 (Eng. Abstr.) **(Spa)**

GENETICS

Gastric DNA synthesis rate in different experimental models of duodenal reflux. Marotta F, et al. **Biomed Pharmacother** 1989;43(9):681–6

IMMUNOLOGY

[Characteristics of immunologic status in patients with post–vagotomy disorders] Shevchenko BF, et al. **Klin Khir** 1989;(8):17–9 (Eng. Abstr.) **(Rus)**

METABOLISM

Duodenogastric reflux in children: measurement of phospholipids and trypsin in gastric content [see comments] Mouterde O, et al. **J Pediatr Gastroenterol Nutr** 1990 Apr; 10(3):327–34 Comment in: J Pediatr Gastroenterol Nutr 1990 Apr;10(3):287–9.

PATHOLOGY

Mucosal mast cells in reflux gastritis and chronic (type B) gastritis. Mangham DC, et al. **Histopathology** 1989 Nov; 15(5):531–5
[Epithelial dysplasia of the gastric mucosa and duodenogastric reflux] Palić F, et al. **Med Arh** 1986; 40(5):205–8 (Eng. Abstr.) **(Scr)**

PHYSIOPATHOLOGY

Duodenogastric reflux in healed duodenal ulcer [letter] Andrade JI, et al. **Am J Gastroenterol** 1990 Jul;85(7):903
Bile reflux in postoperative alkaline reflux gastritis. Cabrol J, et al. **Ann Surg** 1990 Feb;211(2):239–43
[Changes in the motility of the gastrointestinal tract in enteral feeding] Lübke HJ, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:23–6 (21 ref.) **(Ger)**
[The postcholecystectomy syndrome caused by biliary and pyloroduodenal dyskinesia] Granelli P. **Ann Ital Chir** 1989; 60(3):137–41 (30 ref.) **(Ita)**
[Esophageal motor abnormalities, gastroesophageal reflux and duodenogastric reflux in patients with Raynaud's disease] Pucciani F, et al. **Clin Ter** 1989 Dec 31; 131(6):373–80 (Eng. Abstr.) **(Ita)**

PREVENTION & CONTROL

Perform PEJ, not PED. Lewis BS. **Gastrointest Endosc** 1990 May–Jun;36(3):311–3
[Valvular gastroenteroanastomosis as a measure of prevention of the postgastrectomy syndrome] Fesenko VP, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):121–2 **(Rus)**

RADIONUCLIDE IMAGING

Continuous 99mTc–HIDA infusion as a method for measuring duodenogastric reflux. Luján Mompeán JA, et al. **Br J Surg** 1990 Apr;77(4):425–7
Scintigraphic evaluation of gastric emptying, duodenogastric reflux and biliary dyskinesias. Ugolotti G, et al. **J Nucl Med Allied Sci** 1989 Oct–Dec;33(4):335–43
[Cholescintigraphy in the evaluation of duodenogastric reflux in cholelithiasis] Tsypliaev VA, et al. **Med Radiol (Mosk)** 1990 Mar;35(3):36–8 (Eng. Abstr.) **(Rus)**

SURGERY

Roux–en–Y reconstruction for severe postoperative duodenogastric reflux disease. Ovaska J, et al. **Ann Chir Gynaecol** 1990;79(1):19–22
[Y–loop gastrojejunostomy in postoperative gastritis caused by reflux] Saillen P, et al. **J Chir (Paris)** 1990 Mar; 127(3):123–8 (Eng. Abstr.) **(Fre)**

DUODENOSCOPY

Treatment of stones in the bile duct via duodenoscopy. Classen M, et al. **Endoscopy** 1989 Dec;21 Suppl 1:375–7 (15 ref.)
Randomized comparison of Nd YAG laser, heater probe, and no endoscopic therapy for bleeding peptic ulcers. Matthewson K, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1239–44
Endoscopic ultrasonography in the diagnosis of pancreatic tumors. Boyce GA, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2 Suppl):S28–32 (12 ref.)
Duodenal aspiration [letter] Perkel MS. **Gastrointest Endosc** 1990 Mar–Apr;36(2):163
[Fiber endoscopy in the diagnosis of acute hemorrhage of the upper digestive tract] Dimitrov B, et al. **Vutr Boles** 1989;28(4):81–4 **(Bul)**
[Value of systematic endoscopic duodenal biopsy in the evaluation of isolated anemia (letter)] Dumas O, et al. **Gastroenterol Clin Biol** 1989 Nov;13(11):944 **(Fre)**
[Cholestasis caused by an intraduiverticular bezoar. Endoscopic treatment] Seyrig JA, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):741–3 (Eng. Abstr.) **(Fre)**
[Endoscopic sonography for staging of duodenal cancer] Lorenz R, et al. **Bildgebung** 1987–89;56(3):97–100 (Eng. Abstr.) **(Ger)**
[Indications for endoscopic papillotomy] Scheurer U. **Schweiz Med Wochenschr** 1990 Mar 3;120(9):287–94 (28 ref.) (Eng. Abstr.) **(Ger)**
[Peptic ulcer with a visible non–bleeding vascular wall—early elective surgery or endoscopic therapy?] Sandbichler P, et al. **Wien Klin Wochenschr** 1989 Nov 10; 101(21):736–8 (Eng. Abstr.) **(Ger)**
[Duodenoscopic measurement of Oddi's sphincter pressure in congenital biliary atresia] Akiyama T, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Oct;25(5):204–7 **(Jpn)**
[Mechanical jaundice: laparotomy or endoscopy?] Kochnev OS, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):26–32 (Eng. Abstr.) **(Rus)**
[A comparative assessment of gastric secretory function using a probe method and intragastric Ph–metry] Medvedev VN, et al. **Klin Med (Mosk)** 1990 Mar;68(3):89–92 (Eng. Abstr.) **(Rus)**
[The clinical significance of endoscopic signs in neurodermatitis patients with gastric and duodenal pathology] Gromov VV, et al. **Vestn Dermatol Venerol** 1990;(3):32–5 (Eng. Abstr.) **(Rus)**
[Endoscopy in the diagnosis of perforated gastroduodenal ulcers] Sakhautdinov VG, et al. **Vrach Delo** 1989 Aug; (8):73–5 **(Rus)**

ADVERSE EFFECTS

Patient–to–patient transmission of Campylobacter pylori infection by fiberoptic gastroduodenoscopy and biopsy. Langenberg W, et al. **J Infect Dis** 1990 Mar;161(3):507–11
Pancreatoduodenal necrosis after endoscopic injection of cyanoacrylate to treat a bleeding duodenal ulcer: a case report. Vallieres E, et al. **Surgery** 1989 Nov;106(5):901–3

INSTRUMENTATION

Take care with the tip of your video duodenoscope [letter] Cotton PB. **Gastrointest Endosc** 1989 Nov–Dec;35(6):582–3
[Mucinous cystadenoma of the pancreas—exact endoscopic assessment with pancreoscopy] Kohler B, et al. **Leber Magen Darm** 1990 Jul;20(4):196–9 (Eng. Abstr.) **(Ger)**
[Endoscopy and biopsy of the pancreatic duct—a new method of pancreas diagnosis] Stömmer P, et al. **Leber Magen Darm** 1989 Dec;19(6):311–8 (Eng. Abstr.) **(Ger)**
[ERCP and associated methods in children—cases from a personal patient sample] Kautz G, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:54–6 **(Ger)**
[A device for removal of foreign bodies from the gastrointestinal tract] Shiraliev OK. **Khirurgiia (Mosk)** 1989 Aug;(8):120 **(Rus)**

METHODS

Percutaneous endoscopic duodenostomy: a misnomer? [letter; comment] Alberti–Flor JJ. **Gastrointest Endosc** 1989 Nov–Dec;35(6):582 Comment on: Gastrointest Endosc 1989 Mar–Apr;35(2):104–5.
Upper gastrointestinal endoscopy: is premedication or topical anesthesia necessary? [letter] Rana S, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):317–8
Treatment of fistulas of the biliary tract by endoscopic insertion of endoprostheses. Goldin E, et al. **Surg Gynecol Obstet** 1990 May;170(5):418–23
[The reliability of fiber endoscopic estimation of the size of gastroduodenal ulcer] Jørgensen LN, et al. **Ugeskr Laeger** 1990 Mar 12;152(11):734–7 (Eng. Abstr.) **(Dan)**

DUODENOSTOMY see under **ENTEROSTOMY**

DUODENUM

Histochemistry of complex carbohydrates in the horse duodenal gland. Takehana K, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):909–15
The duodenum. Selected papers presented at the annual meetings of the International Duodenal Club. 1980–1988. **Scand J Gastroenterol Suppl** 1989;167:1–103
[Cholestasis caused by an intraduiverticular bezoar. Endoscopic treatment] Seyrig JA, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):741–3 (Eng. Abstr.) **(Fre)**
[A rare cause of stomach hemorrhage] Kopp S, et al. **Z Arztl Fortbild (Jena)** 1989;83(24):1265–6 **(Ger)**
[Hamartomatous polyps of Brunner's gland. Presentation of 2 cases. Review of the literature] De Angelis G, et al. **Minerva Chir** 1989 Jul 31;44(13–14):1761–6 (30 ref.) (Eng. Abstr.) **(Ita)**
[Anatomy of hepatoduodenal ligament on MR imaging] Takahashi N, et al. **Rinsho Hoshasen** 1989 Dec; 34(13):1585–9 (Eng. Abstr.) **(Jpn)**
[A case report of transcatheter arterial embolization of hepatic artery aneurysm which ruptured into the duodenum] Takemura T, et al. **Rinsho Hoshasen** 1990 May; 35(5):633–6 (Eng. Abstr.) **(Jpn)**
[Clinical significance of duodenogastric reflux (review of the literature)] Reut AA, et al. **Khirurgiia (Mosk)** 1990 Mar; (3):115–8 (53 ref.) **(Rus)**
[A device for removal of foreign bodies from the gastrointestinal tract] Shiraliev OK. **Khirurgiia (Mosk)** 1989 Aug;(8):120 **(Rus)**
[Foreign bodies of the retroperitoneal space and its organs] Zhukov MD, et al. **Vestn Khir** 1989 Nov;143(11):59 **(Rus)**
[Neoplasms of the pancreas and biliary tract: use of cytology in diagnosis] Kozuka M, et al. **Rev Med Chil** 1988 Oct; 116(10):1019–27 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Malrotation of the midgut: a rare complication in an adult patient. Konings–Beetstra EI, et al. **Eur J Radiol** 1990 Jul–Aug;11(1):73–7
Gastrointestinal duplications causing relapsing pancreatitis in children. Lavine JE, et al. **Gastroenterology** 1989 Dec; 97(6):1556–8 (12 ref.)
Upper gastrointestinal bleeding from a duodenal duplication: an unusual complication of a rare disease [letter] Duque JJ, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):471–2
The influence of severe bulb deformity on duodenal ulcer relapse. Piai G, et al. **Hepatogastroenterology** 1990 Feb; 37(1):131–4
[Duodenal duplication cyst] Nobel M, et al. **Harefuah** 1990 Apr 1;118(7):391–2 (Eng. Abstr.) **(Heb)**
[Duodenal atresia, dextrocardia, atrioventricular canal. Prenatal diagnosis and obstetric management] Cervadoro O, et al. **Minerva Ginecol** 1990 Apr;42(4):159–60 (Eng. Abstr.) **(Ita)**
[Ultrasonic diagnosis of duodenal diaphragm] Malena S, et al. **Radiol Med (Torino)** 1990 Jun;79(6):632–4 **(Ita)**
[Chronic intestinal obstruction caused by hyperfixation of the duodenum] Gorelyĭ VV, et al. **Klin Khir** 1990;(5):52 **(Rus)**

ANALYSIS

Physical–chemical behavior of dietary and biliary lipids during intestinal digestion and absorption. 2. Phase analysis and aggregation states of luminal lipids during duodenal fat digestion in healthy adult human beings. Hernell O, et al. **Biochemistry** 1990 Feb 27;29(8):2041–56
Physical–chemical behavior of dietary and biliary lipids during intestinal digestion and absorption. 1. Phase behavior and aggregation states of model lipid systems patterned after aqueous duodenal contents of healthy adult human beings. Staggers JE, et al. **Biochemistry** 1990 Feb 27;29(8):2028–40
Effect of age on duodenal 1,25–dihydroxyvitamin D–3 receptors in Wistar rats. Takamoto S, et al. **Biochim Biophys Acta** 1990 Apr 23;1034(1):22–8
Characterization of the receptors responsible for the diphasic effect of bradykinin in rat duodenum. Pereira CC, et al. **Braz J Med Biol Res** 1989;22(9):1137–40
Subcellular localization of recently–absorbed iron in mouse duodenal enterocytes: identification of a basolateral

membrane iron-binding site. Snape S, et al. **Cell Biochem Funct** 1990 Apr;8(2):107–15

Intracellular free amino acid patterns in duodenal and colonic mucosa. Ollenschläger G, et al. **Clin Chem** 1990 Feb; 36(2):378–81

Analysis of RNA transcripts for HLA class II genes in human small intestinal biopsies. Volk BA, et al. **Gut** 1989 Sep; 30(9):1220–4

Influence of duodenal digesta composition on abomasal outflow, motility and small intestinal transit time in sheep. Gregory PC, et al. **J Physiol (Lond)** 1989 Jun;413:415–31

The distribution of galanin message-associated peptide-like immunoreactivity in the pig. Bretherton-Watt D, et al. **Regul Pept** 1990 Mar 5;27(3):307–15

[Measurement of secretory IgA in salivary juice and the localization of secretory IgA in duodenal mucosa in patients with IgA nephropathy] Yasumori R. **Nippon Jinzo Gakkai Shi** 1990 Feb;32(2):171–81 (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

The effect of differences in dietary iron intake on 59Fe absorption and duodenal morphology in pregnant rats. Southon S, et al. **Br J Nutr** 1989 Nov;62(3):707–17

Experimental substantiation of differences in the extent of development of the duodenal glands in mammals. Afanasyev YuI, et al. **Folia Morphol (Praha)** 1989; 37(4):356–63

Canine duodenal mucosal protection. Lawson HH, et al. **S Afr J Surg** 1989 Sep;27(4):129–31

[Histochemical study of rabbit duodenal mucosa carried out using lectins] Bosco L, et al. **Boll Soc Ital Biol Sper** 1990 Apr;66(4):309–14 (Eng. Abstr.) **(Ita)**

[Anatomy of the upper part of the duodenum in men] Mendonça JC, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Jan–Feb;44(1):21–4 (Eng. Abstr.) **(Por)**

[Echography of the stomach and duodenum in children in health and disease] Sapozhnikov VG. **Vestn Rentgenol Radiol** 1989 Sep–Oct;(5):21–5 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

Endoscopic treatment of Dieulafoy's lesion of the duodenum. Goldenberg SP, et al. **Am J Gastroenterol** 1990 Apr; 85(4):452–4

Multiple free (aorta-coronary) gastroepiploic artery grafting. Tanimoto Y, et al. **Ann Thorac Surg** 1990 Mar;49(3):479–80

Continuous monitoring of gastroduodenal mucosal hemodynamics in rats by laser-Doppler flowmetry and reflectance spectrophotometry. Yamaguchi T. **Gastroenterol Jpn** 1989 Dec;24(6):619–25

Gastroduodenal artery-duodenal fistula: a complication of continuous floxuridine (FUDR) infusion into the gastroduodenal artery. Kernstine KH, et al. **J Surg Oncol** 1990 Sep;45(1):59–62

Effect of diethyldithiocarbamate on gastric and duodenal mucosal blood flow and vascular permeability in rats. Teramura S, et al. **Scand J Gastroenterol Suppl** 1989; 162:108–11

Pancreaticoduodenal artery aneurysms: changing patterns. Granke K, et al. **South Med J** 1990 Aug;83(8):918–21 (21 ref.)

Pancreatoduodenal necrosis after endoscopic injection of cyanoacrylate to treat a bleeding duodenal ulcer: a case report. Vallieres E, et al. **Surgery** 1989 Nov;106(5):901–3

Diversion of the gastroduodenal vein: a canine model for comparing portal versus systemic insulin delivery. Barr D, et al. **Transplant Proc** 1990 Apr;22(2):702–3

[Isolated high digestive angiodysplasia, an anatomo-clinical entity] Roseau G, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Nov;25(6):263–6 (26 ref.) **(Fre)**

[Aneurysm of the pancreaticoduodenal arteries and stenosis of the celiac trunk. Apropos of a case] Bersani D, et al. **J Radiol** 1989 Jun–Jul;70(6–7):427–30 (12 ref.) (Eng. Abstr.) **(Fre)**

[Asymptomatic calcified aneurysm of the inferior pancreaticoduodenal artery—differential diagnostic considerations] Grün B, et al. **Radiologe** 1989 Nov; 29(11):572–5 (Eng. Abstr.) **(Ger)**

[A case of porto-caval shunt via pancreatico-duodenal vein and right ovarian vein—effectiveness of MRI] Kageyama T, et al. **Rinsho Hoshasen** 1989 Aug;34(8):953–6 (Eng. Abstr.) **(Jpn)**

[Blood flow in the gastric and duodenal mucosa in peptic ulcer] Potashov LV, et al. **Klin Khir** 1989;(8):27–8 (Eng. Abstr.) **(Rus)**

[Etiopathogenesis and treatment of peptic ulcer] Bashniak VV. **Vestn Khir** 1989 Aug;144(8):61–3 **(Rus)**

CYTOLOGY

Chronomorphology of the duodenum in man. Markiewicz A, et al. **Acta Morphol Hung** 1989;37(1–2):111–6

Explant organ culture of hamster alimentary tract epithelium. Resau JH, et al. **Cell Biol Toxicol** 1986 Sep;2(3):401–15

Assembly of the brush border cytoskeleton: changes in the distribution of microvillar core proteins during enterocyte differentiation in adult chicken intestine. Heintzelman MB, et al. **Cell Motil Cytoskeleton** 1990;15(1):12–22

Proliferative activity of gastric and duodenal endocrine cells in the rat. Kubben FJ, et al. **Histochemistry** 1989; 92(4):325–9

An immunohistochemical study of endocrine cells in the proximal duodenum of eight marsupial species. Takagi C, et al. **J Anat** 1990 Feb;168:49–56

Observation on the basal lamina of duodenal mesothelial cells during metamorphosis of Xenopus laevis. Murata E, et al. **Okajimas Folia Anat Jpn** 1989 Dec;66(5):255–63

Morphometry of normal duodenal mucosa. Giacosa A **Scand J Gastroenterol Suppl** 1989;167:10–2

[The occurrence and behavior of the goblet cells in the intestinal canal of swine] Michel G. **Anat Anz** 1989; 169(3):169–74 (Eng. Abstr.) **(Ger)**

[The effect of Cerucal (metoclopramide) on the demonstrability of serotonin-containing entero-endocrine EC cells of the small intestine] Pfister C, et al. **Z Mikrosk Anat Forsch** 1989;103(5):684–8 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Effects of acute administration of omeprazole or ranitidine on basal and vagally stimulated gastric acid secretion and alkalinization of the duodenum in anaesthetized cats. Fändriks L, et al. **Acta Physiol Scand** 1990 Feb;138(2):181–6

Effect of proximal duodenal acidification upon gastric secretion in the Shay rat. Lee YH, et al. **Am J Dig Dis** 1967 Aug;12(8):795–803

Experimental studies on the influence of Cephradine on the duodenum mucous membrane. Ciszewska-Popiołek B, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1985;40:235–9

Reactivity of sulfhydryl groups in the brush-border membranes of chick duodena is increased by 1,25-dihydroxycholecalciferol. Mykkanen HM, et al. **Biochim Biophys Acta** 1990 Mar 26;1033(3):282–6

Bradykinin action in the rat duodenum: Ca2(+)-dependent effects of bradykinin on the activity of particulate guanylate cyclase. Liebmann C, et al. **Biomed Biochim Acta** 1989; 48(8):597–600

Cyclooxygenase inhibition with indomethacin increases human duodenal mucosal response to prostaglandin E1. Hogan DL, et al. **Dig Dis Sci** 1989 Dec;34(12):1855–9

Effect of antacid treatment on endogenous prostaglandin synthesis in human antral and duodenal mucosa. Preclik G, et al. **Dig Dis Sci** 1989 Dec;34(12):1860–4

Bile salt-induced increases in duodenal brush-border membrane proton permeability, fluidity, and fragility. Zhao DL, et al. **Dig Dis Sci** 1990 May;35(5):589–95

The effect of terminal ileal triglyceride infusion on gastroduodenal motility and the intragastric distribution of a solid meal. Fone DR, et al. **Gastroenterology** 1990 Mar; 98(3):568–75

Feedback regulation of human pancreatic secretion. Effects of protease inhibition on duodenal delivery and small intestinal transit of pancreatic enzymes. Layer P, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1311–9

Brain peptides and duodenal bicarbonate [letter; comment] Lenz HJ. **Gastroenterology** 1990 Jun;98(6):1728–30 Comment on: Gastroenterology 1989 Aug;97(2):412–20.

Effect of somatostatin on gallbladder volume and small intestinal motor activity in humans. Neri M, et al. **Gastroenterology** 1990 Feb;98(2):316–21

Histological alterations by a diet containing seeds of Garcinia kola: effect on liver, kidney, and intestine in the rat. Braide VB, et al. **Gegenbaurs Morphol Jahrb** 1990;136(1):95–101

Lack of effect of gastric inhibitory polypeptide on hepatic and extrahepatic insulin action. Service FJ, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1398–402

Identification of agonists of duodenal alkaline secretion. Garner A, et al. **J Intern Med Suppl** 1990;732:97–101

Intravenous erythromycin for postpyloric intubation. Di Lorenzo C, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul; 11(1):45–7

Dual effects of cholecystokinin-octapeptide on duodenal motility of urethane-anesthetized rats. Giuliani S, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1312–7

Characterization of alkaline response induced by cholinergic agents in the rat duodenum: involvement of M2 receptors and the calcium-dependent process. Takeuchi K, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):465–70

Intraduodenal glucose infusion and pancreatic secretion in man. Sum PT, et al. **Lancet** 1967 Aug 12;2(7511):340–1

Age- and sex-dependent stimulation of calcium uptake in duodenal cells by prolactin in vitamin D-deficient rats. Balakir RA, et al. **Life Sci** 1990;47(1):77–83

Effect of long-term intraluminal perfusion of pentagastrin on rat small-intestinal mucosa. Guidet M, et al. **Scand J Gastroenterol** 1989 Dec;24(10):1223–30

Endoscopic findings in the stomach and duodenum after treatment with enteric-coated and plain naproxen tablets in healthy subjects. Oddsson E, et al. **Scand J Gastroenterol** 1990 Mar;25(3):231–4

Possible mechanisms of diethyldithiocarbamate-induced gastro-duodenal mucosal damage in rats. Takamasu M, et al. **Scand J Gastroenterol Suppl** 1989;162:112–5

[Gastrointestinal tolerance of 30 mg versus 300 mg acetylsalicylic acid daily. An endoscopically controlled double-blind study of healthy subjects] Müller P, et al. **Med Klin** 1990 Jul 15;85(7):429–31 (Eng. Abstr.) **(Ger)**

[Gastroduodenal tolerance of tenoxicam versus diclofenac-Na: an endoscopy double-blind controlled study in healthy probands] Müller P, et al. **Z Rheumatol** 1989 Sep–Oct;48(5):243–5 (Eng. Abstr.) **(Ger)**

[Possible mechanisms of diethyldithiocarbamate-induced duodenal mucosal damage in rats] Takamasu M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2189–95 (Eng. Abstr.) **(Jpn)**

[Characteristics of the effect of 16,16-dimethyl prostaglandin E2 on the alkaline secretion of the proximal duodenal mucosa in rats—a comparison with the effect of secretin] Miura Y, et al. **Sangyo Ika Daigaku Zasshi** 1989 Sep 1; 11(3):313–22 (Eng. Abstr.) **(Jpn)**

[The action of pentagastrin on motor function and intracavitary pressure in the stomach and duodenum] Reshetilov IuI. **Vrach Delo** 1990 Feb;(2):41–3 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Prenatal development of the human Brunner's glands. Botros KG, et al. **Anat Anz** 1990;171(1):23–30

ENZYMOLOGY

Selective decrease of duodenal phosphoprotein phosphatase activity is a general property of duodenal ulcerogens. Japundžić I, et al. **Acta Physiol Hung** 1989;73(2–3):225–32

Vitamin D3 and glucose-6-phosphate dehydrogenase in rat duodenal epithelial cells. Nasr LB, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G760–5

Inhibition of rat liver and duodenum soluble catechol-O-methyltransferase by a tight-binding inhibitor OR-462. Schultz E, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):3953–6

Ascorbate interacts with sodium selenite to increase glutathione peroxidase activity in selenium-deficient chick duodena cultured in vitro. Cupp MS, et al. **Biol Trace Elem Res** 1989 Apr–May;20(1–2):87–94

Measurement of pepsinogen group I in endoscopic gastroduodenal biopsies. Plebani M, et al. **Clin Chem** 1990 Apr;36(4):682–4

Low activities of disaccharidases associated with inflamed duodenal bulb mucosa. Jönsson KA, et al. **Hepatogastroenterology** 1990 Apr;37(2):217–22

Effect of ayurvedic medicines on beta-glucuronidase activity of Brunner's glands during recovery from cysteamine induced duodenal ulcers in rats. Nadar TS, et al. **Indian J Exp Biol** 1989 Nov;27(11):959–62

Activity of duodenal disaccharidases in relation to normal and abnormal mucosal morphology. Langman JM, et al. **J Clin Pathol** 1990 Jul;43(7):537–40

Brush border enzymes in coeliac disease: histochemical evaluation. Mercer J, et al. **J Clin Pathol** 1990 Apr; 43(4):307–12

[Duodenal mucosa lactase, sucrase and alkaline phosphatase in 37 normal subjects in the Chongqing area] Lu ZA. **Chung Hua I Hsueh Tsa Chih** 1989 Dec;69(12):698–700 **(Chi)**

[The effect of almagel, gastrotsepin and food on the acidity and protease activity of the stomach and duodenum in peptic ulcer] Mysh VG, et al. **Ter Arkh** 1989;61(8):62–5 (Eng. Abstr.) **(Rus)**

[Endocrine intestinal low molecular weight factor inhibits Na+,K+- ATPase activity of enterocytes] Kastrikina TF, et al. **Ukr Biokhim Zh** 1989 Sep–Oct;61(5):96–8 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Calcium uptake by duodenal enterocytes isolated from young and mature SHR and WKY rats: influence of dietary calcium. Roullet CM, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F574–9

Elevated 1,25-dihydroxyvitamin D3 and intestinal calbindin-D9k in the toothless rat. Seifert MF, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):E377–81

IMMUNOLOGY

The occurrence of gastric and duodenal auto-antibodies in peptic ulcer disease. Song YH, et al. **Acta Physiol Scand** 1989 Dec;137(4):535–9

T-lymphocyte subsets in gut and blood of liver transplant recipients with and without cytomegalovirus gastroenteritis. Van Thiel DH, et al. **Dig Dis Sci** 1989 Nov; 34(11):1751–7

Complement activation within the coeliac small intestine is localised to Brunner's glands [see comments] Gallagher RB, et al. **Gut** 1989 Nov;30(11):1568–73 Comment in: Gut 1990 May;31(5):583–4.

T-lymphocyte subsets in the duodenal lamina propria of patients infected with the human immunodeficiency virus type 1 and influence of high-dose immunoglobulin therapy. Schrappe-Bücher M, et al. **J Acquir Immune Defic Syndr** 1990;3(3):238–43

Intraduodenal application of cholera holotoxin increases the potential of clones from Peyer's patch B cells of relevant and unrelated specificities to secrete IgG and IgA. Lebman DA, et al. **Reg Immunol** 1988 Jul–Aug;1(1):32–40

Intraepithelial lymphocytes contain virus-specific, MHC-restricted cytotoxic cell precursors after gut mucosal immunization with reovirus serotype 1/Lang. London SD, et al. **Reg Immunol** 1989 Mar–Apr;2(2):98–102

INJURIES

Primary duodenorrhaphy and nasogastric decompression in the treatment of duodenal injury. Böstman L, et al.

Acta Chir Scand 1989 Jun-Jul;155(6-7):333-5
Conservative management of combined pancreatoduodenal injuries. Mansour MA, et al. Am J Surg 1989 Dec; 158(6):531-5
The role of pancreaticoduodenectomy in the management of traumatic injuries to the pancreas and duodenum. Heimansohn DA, et al. Am Surg 1990 Aug;56(8):511-4
Management of duodenal injuries. Caddington G, et al. Can J Surg 1990 Feb;33(1):41-4
Take care with the tip of your video duodenoscope [letter] Cotton PB. Gastrointest Endosc 1989 Nov-Dec;35(6):582-3
Duodenal injuries. Weigelt JA. Surg Clin North Am 1990 Jun;70(3):529-39 (38 ref.)
[Duodenopancreatic contusions. Diagnostic difficulties in children] Loizon P, et al. Pediatrie 1989;44(4):271-5 (Eng. Abstr.) (Fre)
[Diagnosis of retroperitoneal air using ultrasound and radiology in duodenal rupture after blunt abdominal trauma] Langfeldt S, et al. Rontgenblatter 1989 Nov; 42(11):478-9 (Eng. Abstr.) (Ger)
[Traumatic duodenal lesions] Teutonico G, et al. Ann Ital Chir 1989 Sep-Oct;60(5):417-21; discussion 421-2 (Eng. Abstr.) (Ita)
[Duodenal injuries due to blunt trauma] Nesbakken A, et al. Tidsskr Nor Laegeforen 1989 Sep 20;109(26):2659-61 (Eng. Abstr.) (Nor)
[Injury of the duodenum in closed abdominal trauma] Tabatadze KG, et al. Khirurgiia (Mosk) 1989 Aug;(8):76-9 (Eng. Abstr.) (Rus)
[Massive reinfusion of blood in multiple gunshot injury of the abdominal organs] Maskin SS, et al. Klin Khir 1990; (6):54-5 (Rus)
[Complications of endoscopic examinations of the upper segments of the gastrointestinal tract] Sotnikov VN, et al. Klin Med (Mosk) 1989 Nov;67(11):73-6 (Eng. Abstr.) (Rus)
[Isolated rupture of the duodenum in a child] Akmollaev DS, et al. Vestn Khir 1989 Dec;144(12):39-40 (Rus)
[Evaluation of the degree of chemical burns of the upper part of the gastrointestinal tract by luminescent esophagogastroduodenoscopy] Sinev IuV, et al. Vestn Khir 1989 Jun;142(6):121-3 (Rus)
[Injuries of the duodenum--problems in diagnosis and treatment] Grubor M. Acta Chir Iugosl 1989;36 Suppl 1:156-7 (Ser)
[Rupture of the retroperitoneal duodenum due to blunt abdominal trauma] Planjar M, et al. Acta Chir Iugosl 1989; 36 Suppl 1:151-3 (Eng. Abstr.) (Ser)
[Pancreatoduodenal traumatism. Apropos of 18 cases] Alarcó Hernández A, et al. Rev Esp Enferm Apar Dig 1989 Dec; 76(6 Pt 2):645-50 (Eng. Abstr.) (Spa)

INNERVATION

Neural control of duodenal motor inhibition by antral contractions in dogs. Reddy SN, et al. Am J Physiol 1990 Jan;258(1 Pt 1):G24-31
On the purinergic system in rat duodenum: existence of P1 and P2 receptors on the smooth muscle. Postorino A, et al. Arch Int Physiol Biochim 1990 Mar;98(1):53-8
Inhibitory effects of cholecystokinin develop through interaction with duodenal signals. Cox JE. Behav Brain Res 1990 Apr 16;38(1):35-44
Familial megaduodenum associated with hypoganglionosis. Kirk SJ, et al. Br J Surg 1990 Feb;77(2):138-9
Immunocytochemical study of peptidergic structures in Brunner's glands. Bosshard A, et al. Gastroenterology 1989 Dec;97(6):1382-8
Sphincter of Oddi cyclic motility. Effect of translocation of the papilla in opossums. Tanaka M, et al. Gastroenterology 1990 Feb;98(2):347-52
Nerve-mediated contractile and electrical activity of the guinea-pig choledocho-duodenal junction. Vongalis F, et al. J Auton Nerv Syst 1989 Dec 30;29(1):19-28
Vagal and sympathetic control of gastric and duodenal bicarbonate secretion. Fändriks L, et al. J Intern Med Suppl 1990;732:103-7 (33 ref.)
Modulation of synaptic transmission in the rabbit coeliac ganglia by gastric and duodenal mechanoreceptors. Mazet B, et al. Neuroscience 1989;32(1):235-43
Spread of the single spike activity in the myenteric plexus of the guinea-pig duodenum. Ohkawa H. Nippon Heikatsukin Gakkai Zasshi 1989 Apr;25(2):39-46
Neural control of serotonin release from duodenal enterochromaffin cells of the cat. Ahlman H, et al. Surg Forum 1978;29:404-7
[Characteristics of cortical representation of the components of the gastroduodenal complex and role of the vagus nerve in the regulation of visceral afferentation] Bilibin DP, et al. Biull Eksp Biol Med 1990 Feb;109(2):107-9 (Eng. Abstr.) (Rus)
[The inhibitory reactions of the gastroduodenal zone during electrical stimulation of the area of the afferent innervation by the vagus nerve on the human external ear] Repin AA, et al. Fiziol Cheloveka 1989 Nov-Dec;15(6):121-6 (Rus)

METABOLISM

Differential cholecystokinin gene expression in brain and gut of the fasted rat. Greenstein RJ, et al. Am J Med Sci 1990 Jan;299(1):32-7
TRH-induced vagal stimulation of duodenal HCO-3 mediated by VIP and muscarinic pathways. Lenz HJ, et al. Am J Physiol 1989 Nov;257(5 Pt 1):G677-82
Theophylline inhibits transcellular Ca transport in intestine and Ca binding by CaBP. Pansu D, et al. Am J Physiol 1989 Dec;257(6 Pt 1):G935-43
Determining of nitrogen absorption and nitrogen secretion in different sections of the pig's intestine by digesta exchange between 15N labelled and unlabelled animals. Krawielitzki K, et al. Arch Tierernahr 1990 Jan-Feb; 40(1-2):25-37
Studies on the evaluation of feed protein for ruminants. 1. Passage of nitrogen fractions to the duodenum of dairy cows fed different protein and carbohydrate sources. Voigt J, et al. Arch Tierernahr 1990 Mar;40(3):245-57
Ca2(+)-channel agonist BAY K8644 mimics 1,25(OH)2-vitamin D3 rapid enhancement of Ca2+ transport in chick perfused duodenum. de Boland AR, et al. Biochem Biophys Res Commun 1990 Jan 15; 166(1):217-22
Calcium uptake kinetics into brush-border membrane vesicles: higher Vmax in the spontaneously hypertensive rat than in normotensive control. Hennessen U, et al. Biochem Biophys Res Commun 1990 Jul 31;170(2):742-7
Stimulation of intestinal basolateral membrane calcium-pump activity by recombinant synthetic calbindin-D9k and specific mutants. Walters JR, et al. Biochem Biophys Res Commun 1990 Jul 31;170(2):603-8
Ketone body utilization in duodenum. Differential effect of fasting on lipogenesis from acetoacetate and 3-hydroxybutyrate. Caamaño GJ, et al. Biochem Int 1989 Oct;19(4):855-61
Effects of human pancreatic lipase-colipase and carboxyl ester lipase on eicosapentaenoic and arachidonic acid ester bonds of triacylglycerols rich in fish oil fatty acids. Chen Q, et al. Biochim Biophys Acta 1990 May 1;1044(1):111-7
Forms of soluble iron in mouse stomach and duodenal lumen: significance for mucosal uptake. Simpson RJ, et al. Br J Nutr 1990 Jan;63(1):79-89
Duodenal osmolality drives gallbladder emptying in humans. Fiorucci S, et al. Dig Dis Sci 1990 Jun;35(6):698-704
Stimulation of calbindin-D9K (CaBP9K) gene expression by calcium and 1,25-dihydroxycholecalciferol in fetal rat duodenal organ culture. Brehier A, et al. Endocrinology 1990 Aug;127(2):580-7
Biological activity assessment of 1 alpha,25-dihydroxyvitamin D3-26,23-lactone and its intermediate metabolites in vivo and in vitro. Ishizuka S, et al. Endocrinology 1990 Aug;127(2):695-701
Somatostatin in mucosa of stomach and duodenum in gastroduodenal disease. Chayvialle JA, et al. Gastroenterology 1978 Jul;75(1):13-9
Stimulation of duodenal bicarbonate secretion in conscious rats by cerebral somatostatin-28. Role of neurohumoral pathways. Lenz HJ, et al. Gastroenterology 1990 Aug; 99(2):340-4
Differential expression of transferrin receptor in duodenal mucosa in iron overload. Evidence for a site-specific defect in genetic hemochromatosis. Lombard M, et al. Gastroenterology 1990 Apr;98(4):976-84
Serial pH changes in the duodenal bulb during smoking. Murthy SN, et al. Gastroenterology 1978 Jul;75(1):1-4
Human duodenal mucosal bicarbonate secretion. Evidence suggesting active transport under basal and stimulated conditions. Odes HS, et al. Gastroenterology 1990 Apr; 98(4):867-72
Prostaglandin E2 and F2 alpha levels in the duodenal and antral mucosa of non-ulcer dyspeptic and duodenal ulcer patients. Parodi MC, et al. Hepatogastroenterology 1990 Apr;37(2):208-11
Light and electron microscopic detection of (3 Gal beta 1,4 GlcNAc beta 1) sequences in asparagine-linked oligosaccharides with the Datura stramonium lectin. Egea G, et al. Histochemistry 1989;92(6):515-22
Influence of steaming time on site of digestion of flaked corn in steers. Zinn RA. J Anim Sci 1990 Mar;68(3):776-81
Phosphorylation of the 1,25-dihydroxyvitamin D3 receptor. A primary event in 1,25-dihydroxyvitamin D3 action. Brown TA, et al. J Biol Chem 1990 Jun 15;265(17):10025-9
A newly identified iron binding protein in duodenal mucosa of rats. Purification and characterization of mobilferrin. Conrad ME, et al. J Biol Chem 1990 Mar 25;265(9):5273-9
A functional cell surface type receptor is required for the early action of 1,25-dihydroxyvitamin D3 on the phosphoinositide metabolism in rat enterocytes. Lieberherr M, et al. J Biol Chem 1989 Dec 5;264(34):20403-6
Prediction of duodenal nitrogen supply from degradation or organic and nitrogenous matter in situ. Arieli A, et al. J Dairy Sci 1989 Oct;72(10):2532-9
Assessment of intestinal amino acid availability in cattle by use of the precision-fed cecectomized rooster assay. Titgemeyer E, et al. J Dairy Sci 1990 Mar;73(3):690-3
Human duodenal mucosal bicarbonate secretion--physiological and clinical aspects. Isenberg JI, et al. J Intern Med Suppl 1990;732:113-7
Role of VIP in local control of secretion. Smedfors B, et al. J Intern Med Suppl 1990;732:133-6
Relationship of membrane-bound sulfhydryl groups to vitamin D-stimulated uptake of [75Se]Selenite by the brush border membrane vesicles from chick duodenum. Mykkanen HM, et al. J Nutr 1990 Aug;120(8):882-8
Stimulation by prostaglandin E2 of alkaline secretion in the rat duodenum: comparative study with hypertonic NaCl. Takeuchi K, et al. Jpn J Pharmacol 1990 May;53(1):67-74
Determination of bicarbonate output using pH deflection in the rat duodenum: influences of prostaglandins and cholinergic agents. Takeuchi K, et al. Jpn J Pharmacol 1990 Feb;52(2):225-32
1,25-Dihydroxyvitamin D3-mediated vesicular calcium transport in intestine: dose-response studies. Nemere I, et al. Mol Cell Endocrinol 1989 Nov;67(1):47-53
Alteration of metabolism of acetylcholine induced by 2-deoxy-D-glucose in the gastroduodenum of the rat. Muramatsu M, et al. Neuropharmacology 1990 Jan; 29(1):47-54
Bradykinin receptors in isolated rat duodenum. Altinkurt O, et al. Peptides 1990 Jan-Feb;11(1):39-44
Blockade of bombesin receptors with [Leu14-psi(CH2NH)-Leu13]bombesin fails to suppress nutrient-induced CCK release from rat duodenojejunum. Cuber JC, et al. Peptides 1990 Mar-Apr;11(2):255-8
Stimulation of Cl/HCO3 exchange in rat duodenal brush border membrane vesicles by cAMP. Dunk CR, et al. Pflugers Arch 1989 Sep;414(6):701-5
Ion microscopic imaging of calcium transport in the intestinal tissue of vitamin D-deficient and vitamin D-replete chickens: a 44Ca stable isotope study. Chandra S, et al. Proc Natl Acad Sci U S A 1990 Aug;87(15):5715-9
Intestinal lead and calcium absorption: effect of 1,25-dihydroxycholecalciferol and lead status. Fullmer CS. Proc Soc Exp Biol Med 1990 Jul;194(3):258-64
Prostaglandin E2 formation by rat gastroduodenal tissue following intragastric acid perfusion. Kapicioglu S, et al. Prostaglandins Leukot Essent Fatty Acids 1990 Apr; 39(4):277-81
Unidirectional duodenal and jejunal calcium and phosphorus transport in the rat: effects of dietary phosphorus depletion, ethane-1-hydroxy-1,1-diphosphonate and 1,25 dihydroxycholecalciferol. Jungbluth H, et al. Res Exp Med (Berl) 1989;189(6):439-49
Occurrence of specific receptors in the duodenum. Bertaccini G, et al. Scand J Gastroenterol Suppl 1989;167:5-9 (20 ref.)
Alteration of gastroduodenal acetylcholine metabolism induced by 2-deoxy-D-glucose in rats. Chaki S, et al. Scand J Gastroenterol Suppl 1989;162:100-3
In vitro measurement of the pH gradient and thickness of the duodenal mucus gel layer in rats. Matsueda K, et al. Scand J Gastroenterol Suppl 1989;162:31-4
Effect of taurine administration on serum lipid and biliary lipid composition in man. Tanno N, et al. Tohoku J Exp Med 1989 Oct;159(2):91-9
Aluminum absorption by rat duodenum: further evidence of energy-dependent uptake. Cochran M, et al. Toxicol Lett 1990 May;51(3):287-94
[The ornithine decarboxylase activity of the gastric remnant mucosa: the effect of the duodenal juice with bile on the gastric mucosa] Murakami S, et al. Gan No Rinsho 1990 Mar;36(4):485-7 (Eng. Abstr.) (Jpn)
[Effects of intragastric and intrajejunal ethanol administration on canine pancreatic exocrine secretion and duodenal pH] Tsai J, et al. Nippon Shokakibyo Gakkai Zasshi 1990 Mar; 87(3):822-9 (Eng. Abstr.) (Jpn)
[The influence of gonadectomy on histochemical responses of epithelial cells in the duodenum of the white rat. I] Orzelski R, et al. Ann Univ Mariae Curie Sklodowska [Med] 1985;40:101-5 (Eng. Abstr.) (Pol)
[Direct and indirect effects of mineral water Naftusia and its components on the sodium-potassium pump of the small-intestinal epithelium in rats] Prokopenko ON, et al. Fiziol Zh 1990 Mar-Apr;36(2):56-63 (Eng. Abstr.) (Rus)
[The content of catecholamines in the adrenergic plexuses of the spleen and intestines during cold and emotional stresses] Dib J, et al. Neirofiziologiia 1990;22(3):347-54 (Eng. Abstr.) (Rus)
[A decrease in the activity of the nucleolar organizers of the gastric and duodenal mucosal cells in peptic ulcer patients] Sorin VF, et al. Ter Arkh 1990;62(2):33-5 (Eng. Abstr.) (Rus)
[Various defense factors of gastroduodenal mucosa in different time periods after suturing ulcer perforation] Murav'eva LA, et al. Vopr Med Khim 1989 Nov-Dec; 35(6):20-3 (Eng. Abstr.) (Rus)

MICROBIOLOGY

Persistent diarrhea secondary to Candida overgrowth [letter] Margolis BD, et al. Am J Gastroenterol 1990 Mar; 85(3):329-30
Effects of exocrine pancreatic insufficiency and replacement therapy on the bacterial flora of the duodenum in dogs. Simpson KW, et al. Am J Vet Res 1990 Feb;51(2):203-6
Influence of diet and monensin on development of anaerobic fungi in the rumen, duodenum, cecum, and feces of cows. Grenet E, et al. Appl Environ Microbiol 1989 Sep; 55(9):2360-4
Possible evidence of invasiveness of Helicobacter (Campylobacter) pylori. Andersen LP, et al. Eur J Clin Microbiol Infect Dis 1990 Feb;9(2):135-8
Patterns of colonisation of Campylobacter pylori in the oesophagus, stomach and duodenum. Walker SJ, et al. Gut 1989 Oct;30(10):1334-8
Campylobacter pylori in the upper gastrointestinal tract of patients with HIV-1 infection. Francis ND, et al. J Clin Pathol 1990 Jan;43(1):60-2
Lack of a role of the duodenal microflora in pathogenesis of persistent diarrhea and diarrhea-related malabsorption

in Peruvian children. Penny ME, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):479–87

[The effect of different centrifugation conditions in the isolation of mixed rumen bacteria on their content of nitrogen and diaminopimelic acid: use of duodenal content as raw material] Krawielitzki R, et al. **Arch Tierernahr** 1989 Oct;39(10):813–21 (Eng. Abstr.) **(Ger)**

[A case of high intestinal obstruction caused by mycotic bezoar of the duodenum] Goszcz A, et al. **Pol Tyg Lek** 1989 Apr 10–17;44(15–16):367–9 (Eng. Abstr.) **(Pol)**

[Bacteria detected in the duodenal aspirate of patients with biliary tract disorders] Burcoveanu C, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jan–Mar;93(1):139–43 (Eng. Abstr.) **(Rum)**

[The role of disorders of secretion of pancreatic enzymes and bile and bacterial contamination of the small intestine in the pathogenesis of diarrhea in patients with celiac disease] Loginov AS, et al. **Klin Med (Mosk)** 1989 Nov; 67(11):81–5 (Eng. Abstr.) **(Rus)**

[Personal experience with isolation of Campylobacter pylori from the gastroduodenal mucosa] Kubonová K, et al. **Cesk Epidemiol Mikrobiol Imunol** 1989 Sep;38(5):286–91 (Eng. Abstr.) **(Slo)**

PARASITOLOGY

Strongyloides stercoralis: is there a canonical migratory route through the host? Schad GA, et al. **J Parasitol** 1989 Oct; 75(5):740–9

The relative merits of faecal and duodenal juice microscopy in the diagnosis of giardiasis. Goka AK, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):66–7

A study of the life cycle of Eimeria praecox, Johnson 1930. Salisch H. **Zentralbl Veterinarmed [B]** 1990 Jul;37(5):363–8

PATHOLOGY

Ultrasound examination of lymph nodes in the hepatoduodenal ligament. Lyttkens K, et al. **Br J Radiol** 1990 Jan;63(745):26–30

Brunner's gland adenoma. An unusual cause of intestinal bleeding. De Castella H. **Br J Surg** 1966 Feb;53(2):153–6 (41 ref.)

Small bowel biopsy for disaccharidase levels: evidence that endoscopic forceps biopsy can replace the Crosby capsule. Smith JA, et al. **Clin Chim Acta** 1989 Aug 31;183(3):317–21

The nodular duodenum in chronic renal failure. Cassar-Pullicino VN, et al. **Clin Radiol** 1990 May; 41(5):326–30

The stomach and duodenum. Op den Orth JO. **Curr Opin Radiol** 1990 Jun;2(3):394–9 (12 ref.)

Morphologic changes of small intestine epithelium in the course of post–alcoholic liver cirrhosis. Boroń-Kaczmarzka A, et al. **Drug Alcohol Depend** 1990 Jun;25(3):299–303

Thickness of Brunner's glands and its clinical significance in peptic ulcer diseases. Fuse Y, et al. **Gastroenterol Jpn** 1989 Oct;24(5):512–8

Food restriction retards age–related histological changes in rat small intestine. Heller TD, et al. **Gastroenterology** 1990 Feb;98(2):387–91

Retroversion examination of the duodenal bulb [letter] Burkhalter E. **Gastrointest Endosc** 1989 Nov–Dec;35(6):587

Ultrasonic features of duodenal ulcer. Tuncel E. **Gastrointest Radiol** 1990 Summer;15(3):207–10

Quantitative histological study of mucosal inflammatory cell densities in endoscopic duodenal biopsy specimens from dyspeptic patients using computer linked image analysis. Collins JS, et al. **Gut** 1990 Aug;31(8):858–61

Acrodermatitis enteropathica with normal serum zinc levels: diagnostic value of small bowel biopsy and essential fatty acid determination [see comments] Mack D, et al. **Gut** 1989 Oct;30(10):1426–9 Comment in: Gut 1990 Feb;31(2):243.

Predictors of duodenal ulcer healing during treatment with cimetidine. Okada M, et al. **Gut** 1990 Jul;31(7):758–62

Upper GI bleeding from below the descending duodenum [letter] Zhang QY, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):243

Giardiasis: analysis of histological changes in biopsy specimens of 80 patients. Oberhuber G, et al. **J Clin Pathol** 1990 Aug;43(8):641–3

Endoscopic and histopathological study of duodenitis. Chawla LS, et al. **J Indian Med Assoc** 1989 Oct; 87(10):233–5

Segmental dilatation of the duodenum. Rovira J, et al. **J Pediatr Surg** 1989 Nov;24(11):1155–7

Meckel's diverticulum and partial villous atrophy. Mayberry JF, et al. **J R Soc Med** 1989 Sep;82(9):561–2

Fluid–aided sonography of the stomach and duodenum in the diagnosis of peptic ulcer disease in adult patients. Joharjy IA, et al. **J Ultrasound Med** 1990 Feb;9(2):77–84

Duodenal bulb biopsy findings for patients with non–ulcer dyspepsia with or without Campylobacter pylori gastritis. Frierson HF Jr, et al. **Mod Pathol** 1990 May;3(3):271–6

Visual analogue scales for endoscopic evaluation of nonsteroidal anti–inflammatory drug–induced mucosal damage in the stomach and duodenum. Aabakken L, et al. **Scand J Gastroenterol** 1990 May;25(5):443–8

Thickness of Brunner's glands and its clinical significance in duodenal ulcer disease. Fuse Y, et al. **Scand J Gastroenterol** 1990 Feb;25(2):165–72

G–cells and gastrinaemia in chronic nonspecific bulbitis. Domenichini E, et al. **Scand J Gastroenterol Suppl** 1989; 167:21–2

The distribution of duodenal G cells in duodenal ulcer patients. Giacosa A, et al. **Scand J Gastroenterol Suppl** 1989; 167:58–9

Chronic nonspecific duodenitis. A multiple biopsy study of the duodenal bulb in health and disease. Kreuning J, et al. **Scand J Gastroenterol Suppl** 1989;167:16–20

[Contribution of the duodenal biopsy in the diagnosis of kala–azar] Benhassine ML, et al. **Arch Inst Pasteur Alger** 1986;55:125–30 (Eng. Abstr.) **(Fre)**

[Workshop Gastroduodenal Pathology and Campylobacter pylori. Second meeting of the European Campylobacter pylori Study Group] **Internist (Berl)** 1990 Feb;31(2 Suppl):1–12 **(Ger)**

[Giant adenoma of Brunner's glands] Meier P, et al. **Schweiz Med Wochenschr** 1989 Nov 4;119(44):1555–9 (Eng. Abstr.) **(Ger)**

[Morphofunctional characteristics of the duodenum in the early stages of experimental escherichiosis] Parkhomenko IuG, et al. **Biull Eksp Biol Med** 1989 Sep;108(9):369–72 (Eng. Abstr.) **(Rus)**

[Morphofunctional characteristics of the cells of the APUD system of the adrenal glands and the duodenum in the cerebral form of acute radiation sickness] Vlasov PA, et al. **Radiobiologiia** 1989 Nov–Dec;29(6):794–7 (Eng. Abstr.) **(Rus)**

[Morphologic characteristics of the mucous membrane of the stomach and duodenum in patients with acute complications of gastroduodenal ulcers after surgical procedures] Uspenskiĭ VM, et al. **Vestn Khir** 1990 Jan; 144(1):39–43 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The role of Brunner's glands in the mucosal protection of the proximal part of duodenum. Farkas IE, et al. **Acta Physiol Hung** 1989;73(2–3):257–60

Electrophysiological characteristics of the Necturus proximal duodenal mucosa: effects of ion substitutions. Bridén S. **Acta Physiol Scand** 1989 Dec;137(4):469–79

Alkaline secretion by Necturus proximal duodenal mucosa. Bridén S, et al. **Acta Physiol Scand** 1989 Dec;137(4):481–7

Hypothalamic inhibition of duodenal alkaline secretion via a sympatho–adrenergic mechanism in the rat. Fändriks L, et al. **Acta Physiol Scand** 1989 Nov;137(3):357–63

Cl–HCO3 exchange and anion conductance in rat duodenal apical membrane vesicles. Brown CD, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):G661–7

Effect of denervation of the myenteric plexus on gastroduodenal motility in turkeys. Chaplin SB, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G481–9

Control of interdigestive and intraduodenal meal–stimulated pancreatic secretion in rats. Chariot J, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G198–204

Variations in duodenal cross–sectional area during the interdigestive migrating motility complex. Gregersen H, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G26–31

Effects of hydrochloric acid on duodenal and jejunal mucosal permeability in the rat. Nylander O, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):G653–60

Relationship between interdigestive duodenal motility and fluid transport in humans. Sjövall H, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G348–54

Spontaneous electromechanical activity in the rat duodenum in vitro. Postorino A, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):35–40

Determination of the transit rates in different sections of the pig's intestine. Krawielitzki K, et al. **Arch Tierernahr** 1990 Jan–Feb;40(1–2):17–23

Rat duodenal smooth muscle contractile responses to angiotensin II are dependent on calmodulin. Weekley LB. **Clin Exp Pharmacol Physiol** 1990 Feb;17(2):99–104

Stimulation of duodenal muscle contraction by porcine or canine motilin in the dog in vivo. Poitras P, et al. **Clin Invest Med** 1990 Feb;13(1):11–6

Characteristics of postprandial duodenal motor patterns in dogs. Bühner S, et al. **Dig Dis Sci** 1989 Dec;34(12):1873–81

Differential effects of acute mental stress on interdigestive secretion of gastric acid, pancreatic enzymes, and gastroduodenal motility. Holtmann G, et al. **Dig Dis Sci** 1989 Nov;34(11):1701–7

Role of growth factors in gastroduodenal protection and healing of peptic ulcers. Konturek SJ. **Gastroenterol Clin North Am** 1990 Mar;19(1):41–65 (130 ref.)

Gastroduodenal motility during the delayed gastric emptying induced by cold stress. Fone DR, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1155–61

Rapid decrease in electrical conductance of mammalian duodenal mucosa in vitro. Combined effects of prostaglandin E2 and bicarbonate. Macherey HJ, et al. **Gastroenterology** 1989 Dec;97(6):1448–60

Cerebroventricular calcitonin gene–related peptide inhibits rat duodenal bicarbonate secretion by release of norepinephrine and vasopressin. Lenz HJ, et al. **J Clin Invest** 1990 Jan;85(1):25–32

Role of alkaline secretion and cell restitution in duodenal mucosal protection. Starlinger M. **J Intern Med Suppl** 1990; 732:109–12

Duodenal bulb control of the flow rate of digesta in the fasted and fed dog. Malbert CH, et al. **J Physiol (Lond)** 1989 Feb;409:371–84

The relationship of intraduodenal pH and delayed gastric emptying in duodenal ulceration induced by mepirizole or cysteamine in rats. Tanaka H, et al. **Jpn J Pharmacol** 1989 Dec;51(4):483–92

The effect of age on the rhythmic contractions of the rat small intestine. Caruolo EV. **Lab Anim** 1990 Jul; 24(3):207–12

Tonic duodenal contractions—a process for regulation of duodenal transit? Mandrek K, et al. **Prog Clin Biol Res** 1990;327:459–62

Canine duodenal mucosal protection. Lawson HH, et al. **S Afr J Surg** 1989 Sep;27(4):129–31

Rabbit sphincter of Oddi and duodenum are regulated by slow waves with a common basic–mode activity. Elbrønd H, et al. **Scand J Gastroenterol** 1990 May;25(5):534–40

Comparison of blood flow measurements by hydrogen gas clearance and laser Doppler flowmetry in the rat duodenum. Leung FW. **Scand J Gastroenterol** 1990 May; 25(5):429–34

Duodenal acidification and jejunal hyperosmolality inhibit pentagastrin–stimulated acid secretion in chronic gastric fistula rats. Wallin C, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1095–101

Action of the new H2–receptor antagonist oxmetidine on the duodenum of different species. Coruzzi G, et al. **Scand J Gastroenterol Suppl** 1989;167:93–6

[Defense mechanisms of the gastroduodenal mucosa: the role of mucus and bicarbonate in the development of peptic ulcer] Ainsworth MA, et al. **Ugeskr Laeger** 1989 Oct 16; 151(42):2708–13 (30 ref.) (Eng. Abstr.) **(Dan)**

[Effect of truncal vagotomy on electromechanical activity of the gastric antrum and the duodenum in conscious dogs] Yoshida M. **Nippon Geka Gakkai Zasshi** 1990 Apr; 91(4):451–63 (Eng. Abstr.) **(Jpn)**

[Mechanical properties of the small intestine of rats in the normal state and after disturbed parasympathetic innervation] Tsibulevskiĭ AIu, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):74–6 (Eng. Abstr.) **(Rus)**

[The adaptation of the amino acid composition of the digestive juices entering the duodenum to changes in the composition of the enteral environment] Gal'perin IuM, et al. **Fiziol Zh SSSR** 1990 Mar;76(3):396–401 (Eng. Abstr.) **(Rus)**

[Hydrostatic pressure in the duodenum during the immediate postoperative period after resection of the stomach] Kostin AE. **Khirurgiia (Mosk)** 1989 Oct;(10):48–9 (Eng. Abstr.) **(Rus)**

[The effect of diet with an increased amount of tyrosine on reparative processes in the duodenum] Shchedrunov VV, et al. **Vopr Pitan** 1989 Nov–Dec;(6):52–5 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

The role of gastric and duodenal pH in the cysteamine–induced duodenal ulcer in the rat. Kusterer K, et al. **Acta Physiol Hung** 1989;73(2–3):247–50

Effects of hypovolemia on blood flow, arterial [HCO3–], and HCO3– output in the rat duodenum. Jönson C, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G179–83

Duodenojejunal motor activity in patients with chronic dyspeptic symptoms. Bassotti G, et al. **J Clin Gastroenterol** 1990 Feb;12(1):17–21

Antroduodenal manometry in the evaluation of chronic functional gastrointestinal symptoms. Hyman PE, et al. **Pediatrics** 1990 Jul;86(1):39–44

Human duodenal myoelectric activity after operation and with pacing. Soper NJ, et al. **Surgery** 1990 Jan;107(1):63–8

[Antro–duodenal coordination: definition, effect of prokinetics and possible relationship to non–ulcer dyspepsia] Lux G, et al. **Z Gastroenterol** 1990 Apr;28 Suppl 1:13–6; discussion 20–1 (35 ref.) **(Ger)**

[Effect of arterial blood loss on the myoelectric activity of the pyloric sphincter and duodenum] Shemerovskiĭ KA. **Biull Eksp Biol Med** 1990 Apr;109(4):340–3 **(Rus)**

[Organ–sparing operations and the time of healing of duodenal ulcers (review of the literature)] Pomelov VS, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):110–5 (54 ref.) **(Rus)**

[Reply to Dr. V.I. Nikol'skiĭ's open letter to the Editor ("Khirurgiia, No. 6, 1989) (letter)] Vitebskiĭ IaD. **Khirurgiia (Mosk)** 1990 Mar;(3):81–2 **(Rus)**

[Results of the surgical treatment of patients with chronic duodenal obstruction] Dudenko FI, et al. **Klin Khir** 1989; (8):28–30 (Eng. Abstr.) **(Rus)**

[Esophageal, gastric and duodenal motility in patients with cholelithiasis] Polous IuM, et al. **Klin Med (Mosk)** 1989 Oct;67(10):98–101 (Eng. Abstr.) **(Rus)**

[Blood microcirculation in erosive lesions of the gastroduodenal region] Voro'bev LP, et al. **Sov Med** 1989; (10):85–7 **(Rus)**

[The morphofunctional characteristics of the duodenal mucosa in patients with a duodenal ulcer at different phases of the disease] Fisher AA, et al. **Ter Arkh** 1990;62(2):28–33 (Eng. Abstr.) **(Rus)**

[Changes in the intracavitary pressure in the stomach and duodenum with different types of motility] Reshetilov IuI. **Ter Arkh** 1990;62(2):46–8 (Eng. Abstr.) **(Rus)**

[The blood coagulation and fibrinolytic properties of the mucosa in the gastroduodenal area in patients with duodenal peptic ulcer] Tabidze ZSh. **Ter Arkh** 1990; 62(2):35–8 (Eng. Abstr.) **(Rus)**

[Methods of studying motor function of the small intestine at a surgical clinic] Kurygin AA. **Vestn Khir** 1989 Nov; 143(11):30–5 (Eng. Abstr.) **(Rus)**

[Prevention of duodenal hypertension after gastrectomy] Tatishvili GG, et al. **Vestn Khir** 1990 Feb;144(2):24–7 (Eng. Abstr.) **(Rus)**

[Disorders of the motor and evacuatory functions of the stomach and duodenum in peptic ulcer patients] Pavlovskii MP, et al. **Vrach Delo** 1990 Jun;(6):48–52 (Eng. Abstr.) **(Rus)**

[Pathogenic aspects of duodenal ulcers by cysteamine. Role of the Brunner glands] Laudanno OM, et al. **Acta Gastroenterol Latinoam** 1988;18(3):187–94 (Eng. Abstr.) **(Spa)**

[Effect of the diet on duodenal bacterial flora in malnourished infants with chronic diarrhea] Urrestarazu MI, et al. **GEN** 1987 Oct–Dec;41(4):126–31 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

The prevalence and severity of late effects in normal rat duodenum following intraoperative irradiation. Poulakos L, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr;18(4):841–8

Radiation induced changes in the blood capillaries of rat duodenal villi: a corrosion cast, light and transmission electron microscopical study. Abbas B, et al. **J Submicrosc Cytol Pathol** 1990 Jan;22(1):63–70

RADIOGRAPHY

A sweet solution to a contrast problem. Foulner D. **Br J Radiol** 1990 Mar;63(747):219–20

Coarse mucosal folds in the duodenum: a twenty-year follow-up. Clements R, et al. **Clin Radiol** 1990 Jun; 41(6):421–4

Radiographic examination of the stomach and duodenum: comparison of single-, double- and biphasic-contrast methods. de Lange EE, et al. **Eur J Radiol** 1990 May–Jun; 10(3):167–74

The value of double-contrast study of the small intestine in immunoproliferative small intestinal disease. Matsumoto T, et al. **Gastrointest Radiol** 1990 Spring;15(2):159–63

Use of barium in evaluation of disorders of the upper gastrointestinal tract: current status [published erratum appears in Radiology 1990 May;175(2):586] Op den Orth JO. **Radiology** 1989 Dec;173(3):601–8 (76 ref.)

[Value and reliability of hypotonic duodenography in chronic pancreatitis] Reuther G, et al. **Rontgenblatter** 1990 Feb; 43(2):72–7 (Eng. Abstr.) **(Ger)**

[Radiologic findings in the gastro-duodenum in patients without epigastric disorders] Ličanin Z, et al. **Med Arh** 1989;43(4–6):257–8 **(Ser)**

RADIONUCLIDE IMAGING

Role of 99mTc-disofenin in duodenal and gastric aspirates in the evaluation of persistent neonatal cholestasis. Tolia V, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov;9(4):426–30

SECRETION

Duodenal alkaline secretion in rabbits: influence of artificial ventilation. Holm L, et al. **Acta Physiol Scand** 1990 Apr; 138(4):471–8

Luminal CCK-releasing factors in the isolated vascularly perfused rat duodenojejunum. Cuber JC, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G191–7

Regulation of cholecystokinin secretion by food, hormones, and neural pathways in the rat. Lewis LD, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):G512–8

Effects of the new anti-ulcer agent 12-sulfodehydroabietic acid monosodium salt on duodenal alkaline secretion in rats. Onoda Y, et al. **Arzneimittelforschung** 1990 May; 40(5):576–8

Influence of duodenal secretions and its components on release and activities of human brush-border enzymes. Young GP, et al. **Biochim Biophys Acta** 1990 Mar; 1022(3):393–400

Exogenous prostaglandin protects against acid-induced deep mucosal injury by stimulating alkaline secretion in rat duodenum [see comments] Leung FW, et al. **Dig Dis Sci** 1989 Nov;34(11):1686–91 Comment in: Dig Dis Sci 1990 Jul;35(7):918–20.

Central regulation of duodenal bicarbonate secretion. Dharmsathaphorn K, et al. **Gastroenterology** 1990 Jul; 99(1):278

Duodenal mucosal bicarbonate secretion in man. Stimulation by acid and inhibition by the alpha 2-adrenoceptor agonist clonidine. Knutson L, et al. **Gut** 1989 Dec;30(12):1708–15

Effect of bismuth subcitrate and sucralfate on rat duodenal and human gastric bicarbonate secretion in vivo. Shorrock CJ, et al. **Gut** 1990 Jan;31(1):26–31

[Bicarbonate secretion in the mucosal defensive mechanism of the duodenum. Acid neutralization with HCO3- in the lumen and mucus gel] Takeuchi K. **Yakugaku Zasshi** 1990 Feb;110(2):85–104 (74 ref.) (Eng. Abstr.) **(Jpn)**

[Acute ulceration of the gastroduodenal mucosa (review of the literature)] Lutsevich EV, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):149–54 (85 ref.) **(Rus)**

[The secretory activity of the stomach, duodenum and pancreas in patients with chronic opisthorchiasis] Zvereva LI, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):17–21 (Eng. Abstr.) **(Rus)**

SURGERY

Preoperative cell-mediated immunity and duration of antibiotic prophylaxis in relation to postopertive infectious complications. A controlled trial in biliary, gastroduodenal and colorectal surgery. Moesgaard F, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):281–6

CT of the abdomen after the Whipple procedure: value in depicting postoperative anatomy, surgical complications, and tumor recurrence. Coombs RJ, et al. **AJR Am J Roentgenol** 1990 May;154(5):1011–4

Duodenum-preserving resection of the head of the pancreas in treatment of chronic pancreatitis. Wilker DK, et al. **Am J Gastroenterol** 1990 Aug;85(8):1000–4

Role of highly selective vagotomy and duodenoplasty in the treatment of postbulbar duodenal obstruction. Bowden TA Jr, et al. **Am J Surg** 1990 Jan;159(1):15–9; discussion 19–20

Primary Roux-Y gastrojejunostomy versus gastroduodenostomy after antrectomy and selective vagotomy. Haglund UH, et al. **Am J Surg** 1990 Jun; 159(6):546–9

Prognostic factors for survival after pancreaticoduodenectomy for malignant disease. Winek T, et al. **Am J Surg** 1990 May;159(5):454–6

Pancreaticogastrostomy after pancreaticoduodenectomy. Bradbeer JW, et al. **Ann R Coll Surg Engl** 1990 Jul; 72(4):266–9

Survival after pancreatoduodenectomy. 118 consecutive resections without an operative mortality. Trede M, et al. **Ann Surg** 1990 Apr;211(4):447–58

Pancreaticoduodenectomy and the celiac artery compression syndrome. Kohler TR, et al. **Ann Vasc Surg** 1990 Jan; 4(1):77–80

Pancreaticoduodenectomy. University experience and resident education. Doerr RJ, et al. **Arch Surg** 1990 Apr; 125(4):463–5

Pancreaticoduodenectomy for bleeding periampullary tumors. Gold MS, et al. **Arch Surg** 1990 May;125(5):675–7

Duodenectomy without pancreatectomy for extensive benign villous adenoma of the duodenum. Vallance S. **Aust N Z J Surg** 1990 Apr;60(4):311–4

Duodenum-preserving resection of the head of the pancreas--an alternative to Whipple's procedure in chronic pancreatitis. Beger HG, et al. **Hepatogastroenterology** 1990 Jun;37(3):283–9

Pancreaticoduodenal resection for pancreatic or periampullary tumors--a ten-year experience. Ceuterick M, et al. **Hepatogastroenterology** 1989 Dec;36(6):467–73

Current status of pancreaticoduodenectomy for periampullary carcinoma. Crist DW, et al. **Hepatogastroenterology** 1989 Dec;36(6):478–85

Duodenal pancreatectomy with occlusion of the pancreatic duct. Gall FP, et al. **Hepatogastroenterology** 1990 Jun; 37(3):290–4

Results of pancreatoduodenectomy for carcinoma of the head of the pancreas. Kairaluoma MI, et al. **Hepatogastroenterology** 1989 Dec;36(6):412–8

Reconstruction after subtotal duodenopancreatectomy in patients with pancreatic duct, distal bile duct and ampullary carcinoma: further experience with a personal technique. Lygidakis NJ, et al. **Hepatogastroenterology** 1989 Dec; 36(6):486–9

Endoprosthetic insertion for malignant obstructive jaundice: a retrospective review. Tarr KP, et al. **J Am Osteopath Assoc** 1989 Dec;89(12):1525–37

Physiologic studies of urinary drained pancreaticoduodenal grafts in humans. Nghiem DD, et al. **J Surg Res** 1990 Jan; 48(1):72–7

Hepatobiliary and gastrointestinal imaging after pancreaticoduodenectomy--a comparative study on Billroth I and Billroth II reconstructions. Kotoura Y, et al. **Jpn J Surg** 1990 May;20(3):294–9

A modified version of Herrera's method for creating a pancreatic fistula in dogs. Nishiwaki H, et al. **Jpn J Surg** 1990 Jul;20(4):418–23

Whipple operation revisited. Spain DA, et al. **N J Med** 1990 Jan;87(1):41–4

The technique of papilloduodenectomy. Gertsch P, et al. **Surg Gynecol Obstet** 1990 Mar;170(3):254–6

Pyloric preservation and pyloric divulsion after pancreaticoduodenectomy. Grassi GB, et al. **Surg Gynecol Obstet** 1990 Jan;170(1):72–4

Duodenojejunostomy as an alternative to anastomosis of the small intestine at the ligament of Treitz. Nauta RJ. **Surg Gynecol Obstet** 1990 Feb;170(2):172–4

Experience with pylorus-preserving pancreatoduodenectomies [letter; comment] Ramesh H, et al. **Surgery** 1990 Jun;107(6):715–6 Comment on: Surgery 1989 May;105(5):645–53.

Long survival of a woman with a huge leiomyosarcoma of the duodenum after pancreaticoduodenectomy and transverse colectomy: a case report. Watanabe A, et al. **Surgery** 1990 Jul;108(1):110–3

PGE2 elevation occurs in the urine in both bladder and duodenally drained pancreas allograft rejection. Zheng T, et al. **Transplant Proc** 1990 Apr;22(2):732–3

Severe chronic cephalic pancreatitis: use of partial duodenopancreatectomy with occlusion of the pancreatic duct in 289 patients. Gall FP, et al. **World J Surg** 1989 Nov–Dec;13(6):809–16; discussion 816–7

[Factors influencing long-term prognosis after pancreatoduodenectomy in cancer of the pancreas head] Liang XM. **Chung Hua Wai Ko Tsa Chih** 1989 Apr; 27(4):211–4, 253 (Eng. Abstr.) **(Chi)**

[Upper jejunal atresia: treatment using jejunal resection, duodenal modeling and duodeno-jejunal or ileal anastomosis. Results in 13 newborn infants] Kazandjian V, et al. **Chir Pediatr** 1989;30(5):191–5 (Eng. Abstr.) **(Fre)**

[Development of a new surgical technic for duodenectomy in the pig] Aliev AA, et al. **J Physiol (Paris)** 1988–89; 83(4):304–7 (Eng. Abstr.) **(Fre)**

["Wheeling-off" of the duodenum in gastric resection in hemorrhagic duodenal ulcer] Meyer C, et al. **Presse Med** 1989 Dec 2;18(40):1974–6 (Eng. Abstr.) **(Fre)**

[Unusual duodenal obstruction: association of a bezoar with a duodenal diaphragm (apropos of a case)] Daghfous MS, et al. **Tunis Med** 1989 Jun–Jul;67(6–7):457–61 (Eng. Abstr.) **(Fre)**

[Results of bilio-digestive anastomoses in benign diseases excluding intra-hepatic lithiasis] Zaouche A, et al. **Tunis Med** 1990 Apr;68(4):259–66 (25 ref.) (Eng. Abstr.) **(Fre)**

[The attaching of bypass cannulas to the duodenum of dairy cows] Engelmann H, et al. **Arch Exp Veterinarmed** 1990; 44(1):59–63 (Eng. Abstr.) **(Ger)**

[Solid and cystic metastatic tumor of the pancreas. A case report] Herzog U, et al. **Chirurg** 1990 Apr;61(4):326–9 **(Ger)**

[Bilio-duodenal jejunum interposition as a technical alternative to Roux-Y reconstruction following reconstruction of cancer of the fork of the hepatic duct] Kremer B, et al. **Chirurg** 1989 Sep;60(9):599–602 (Eng. Abstr.) **(Ger)**

[Technic of papilloduodenectomy] Gertsch P, et al. **Langenbecks Arch Chir** 1990;375(4):246–50 (25 ref.) (Eng. Abstr.) **(Ger)**

[Resorbable staple sutures for partial stomach and duodenal stump closure. Animal experiment studies] Walgenbach S, et al. **Langenbecks Arch Chir** 1990;375(2):102–5 (Eng. Abstr.) **(Ger)**

[Whipple's duodenopancreatectomy] Graf D, et al. **Schweiz Med Wochenschr** 1990 Apr 7;120(14):518–21 (Eng. Abstr.) **(Ger)**

[Duodenopancreatectomy as the treatment of primary duodenal cancer] Rintala E, et al. **Zentralbl Chir** 1989; 114(14):919–23 (Eng. Abstr.) **(Ger)**

[The mechanical stapler in the reconstructive phase of total gastrectomy] Cancrini A Jr, et al. **Ann Ital Chir** 1989 Nov–Dec;60(6):493–7 **(Ita)**

[Pancreatic pseudocyst as a complication of duodenocephalopancreatectomy. Description of a case] Goi M, et al. **Minerva Chir** 1989 Nov 15;44(21):2271–3 (Eng. Abstr.) **(Ita)**

[Duodenopancreatectomy with conservation of the pylorus] Lombardi M, et al. **Minerva Chir** 1989 Oct 31; 44(20):2137–41 (Eng. Abstr.) **(Ita)**

[Transcatheter arterial embolization for massive abdominal bleeding in post-pancreatoduodenectomy--first report] Machida H, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun; 91(6):705–12 (Eng. Abstr.) **(Jpn)**

[Duodenectomy] Aliev AA, et al. **Fiziol Zh SSSR** 1990 Jan; 76(1):139–42 **(Rus)**

[Errors in dissection of the ligament of Treitz] Andrianov AV, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):104–6 **(Rus)**

[Valvular gastroenteroanastomosis as a measure of prevention of the postgastrectomy syndrome] Fesenko VP, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):121–2 **(Rus)**

[A method of creation of esophagoduodenoanastomosis] Lau VP. **Khirurgiia (Mosk)** 1990 Feb;(2):136–8 **(Rus)**

[Forced duodenectomy with subsequent transplantation of the major duodenal papilla to the jejunum during gastric resection] Medvedev AL, et al. **Khirurgiia (Mosk)** 1989 Oct; (10):129 **(Rus)**

[A method of gastropancreatoduodenal resection] Patiutko IuI, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):133–5 **(Rus)**

[Prevention and complex treatment of duodenal stump incompetence] Salikhov IA, et al. **Khirurgiia (Mosk)** 1989 Oct;(10):23–6 (Eng. Abstr.) **(Rus)**

[External drainage of the pancreatic duct after pancreatoduodenal resection] Seidov VD, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):134–5 **(Rus)**

[Restoration of the continuity of the digestive tract after gastrectomy] Sheleshko PV. **Khirurgiia (Mosk)** 1990 Apr; (4):114–6 **(Rus)**

[Duodenopancreatic anastomosis in blunt trauma of the pancreas] Vashkialis VB, et al. **Khirurgiia (Mosk)** 1989 Aug; (8):132–4 **(Rus)**

[Occlusive pancreatojejunoanastomosis in pancreatoduodenal resection] Danilov MV, et al. **Klin Khir** 1989;(11):30–2 (Eng. Abstr.) **(Rus)**

[Functional disorders of the enteroenteroanastomosis as a cause of postgastrectomy complications] Kochubei VG, et al. **Klin Khir** 1989;(8):11–3 (Eng. Abstr.) **(Rus)**

[Prevention of suture incompetence of the duodenal stump after gastrectomy] Kostin AE. **Klin Khir** 1989;(10):70–1 **(Rus)**

[Prevention of disorders of gastric emptying after small transverse gastrointestinal anastomosis] Kuznetsov VA, et al. **Klin Khir** 1989;(10):71 **(Rus)**

[Modification of pancreatoduodenal resection after earlier performed Duval operation] Lifshits IuZ, et al. **Klin Khir** 1989;(11):62–3 **(Rus)**

[Pancreatoduodenal resection with cholecystopancreatostomy. Morphofunctional

substantiation and clinical results] Shalimov AA, et al. **Klin Khir** 1989;(11):28–30 (Eng. Abstr.) (Rus)

[Possibilities of the surgical treatment of post-vagotomy and post-gastrectomy diarrhea] Vitebskiĭ IaD, et al. **Klin Khir** 1989;(10):77 (Rus)

[Surgical tactics in complicated double ulcers of the pylorus and duodenum] Zaĭtsev VT, et al. **Klin Khir** 1989;(8):4–5 (Eng. Abstr.) (Rus)

[A treatment method of duodenal diverticula] Agzamkhodzhaev SM, et al. **Vestn Khir** 1990 Feb; 144(2):105–6 (Rus)

[Stomach resection in postbulbar bleeding ulcers of the duodenum] Chernobrovyĭ NP, et al. **Vestn Khir** 1990 Feb; 144(2):103–5 (Rus)

[Gastrectomy with pancreatoduodenal resection in patients with cancer of the stomach] Kasatkin VF, et al. **Vestn Khir** 1989 Dec;144(12):27–8 (Rus)

[12 years' observation of pancreatoduodenal resection with preservation of the stomach in pancreatic cancer] Zemlianoĭ AG, et al. **Vestn Khir** 1989 Oct;143(10):51–2 (Rus)

[Results of exclusion of the duodenum in diverticulosis] Zemlianoĭ AG, et al. **Vestn Khir** 1990 Feb;144(2):99–103 (Rus)

[The significance of early complications of the duodenal stump after resection of two-thirds of the stomach] Sehović S, et al. **Med Arh** 1989;43(1):27–9 (Eng. Abstr.) (Scr)

TRANSPLANTATION

Histologic diagnosis of rejection by using cystoscopically directed needle biopsy specimens from dysfunctional pancreatoduodenal allografts with exocrine drainage into the bladder. Carpenter HA, et al. **Am J Surg Pathol** 1990 Sep;14(9):837–46

A cystoscopically directed biopsy technique developed in canine pancreaticoduodenal transplantation. Marsh CL, et al. **Surgery** 1990 Feb;107(2):177–81

A prospective comparison of two preservation solutions in human pancreaticoduodenal transplantation. Barr D, et al. **Transplant Proc** 1990 Apr;22(2):529–31

A functional comparison of pancreas and pancreaticoduodenal transplants. Bartlett ST, et al. **Transplant Proc** 1990 Apr;22(2):590–2

Conversion of whole pancreaticoduodenal transplants from bladder to enteric drainage for metabolic acidosis or dysuria. Burke GW, et al. **Transplant Proc** 1990 Apr; 22(2):651–2

Combined liver/pancreaticoduodenal procurement effect on allograft function. Conway MB, et al. **Transplant Proc** 1990 Apr;22(2):429–30

Critical analysis of mortality and graft loss following simultaneous renal-pancreatic duodenal transplantation. Corry RJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2305–6

Experience with combined hepatic, pancreaticoduodenal, and renal procurement with UW solution. D'Alessandro AM, et al. **Transplant Proc** 1990 Aug;22(4):2076–7

Exocrine and endocrine function of pancreaticoduodenal grafts versus segmental pancreatic grafts. Elkader MW, et al. **Transplant Proc** 1990 Aug;22(4):1593–4

Complications occurring after whole organ duodenopancreatic transplantation: relation to the allograft duodenal segment. Gruessner RW, et al. **Transplant Proc** 1990 Apr;22(2):578–9

Pancreaticoduodenal allotransplantation with the use of FK 506, cyclosporine, and triple-regimen immunosuppression. Imai K, et al. **Transplant Proc** 1990 Aug;22(4):1655–7

Differential immunosuppressive strategies after combined pancreaticoduodenal and isolated kidney transplantation. Mellert J, et al. **Transplant Proc** 1990 Aug;22(4):1584–5

Management of delayed complications of the duodenal loop in whole organ pancreatic duodenal transplantation. Mittal VK, et al. **Transplant Proc** 1990 Apr;22(2):580–1

Successful canine pancreaticoduodenal allotransplantation with cyclosporine and gabexate mesilate. Morimoto T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1318–20

Pancreaticoduodenal allotransplantation with FK 506 in the dog. Morimoto T, et al. **Transplant Proc** 1990 Apr; 22(2):717–9

Kinetics of the amount of Ia-positive cells of donor and host origin in pancreaticoduodenal allografts in rats. Schang T, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):369–71

The vascular supply in human pancreaticoduodenal grafts: an angiographic study. Tydén G, et al. **Transplant Proc** 1990 Apr;22(2):593

Benefits and drawbacks with the use of pancreatico-duodenal grafts in pancreatic transplantation with enteric drainage. Tydén G, et al. **Transplant Proc** 1990 Feb;22(1):181–2

Sequential histopathologic changes in pancreaticoduodenal allograft rejection in dogs. Carpenter HA, et al. **Transplantation** 1989 Nov;48(5):764–8

ULTRASTRUCTURE

Ultracytochemistry of glycoconjugates in rat Brunner's gland with labeled lectins. Yotsumoto S, et al. **J Electron Microsc (Tokyo)** 1990;39(1):26–32

Ultrastructural and functional abnormalities of intestinal and renal epithelium in the SHR. Drücke T, et al. **Kidney Int** 1990 Jun;37(6):1438–48

Duodenal ultrastructure in patients with chronic renal failure with a comment on the incidence of Campylobacter pylori infection. Shousha S, et al. **Ultrastruct Pathol** 1990 Jan–Feb; 14(1):1–10

[Ultrastructure of the epithelial cells of the duodenum at the early stages of experimental Escherichia infection] Parkhomenko IuG, et al. **Biull Eksp Biol Med** 1990 Jan; 109(1):78–82 (Eng. Abstr.) (Rus)

DUPLICATE PUBLICATION

Notice of triplicate publication [comment] **Digestion** 1989; 44(4):237 Comment on: Digestion 1989;42(2):79–85.

Notice of triplicate publication [comment] **Hepatogastroenterology** 1990 Feb;37(1):154 Comment on: Hepatogastroenterology 1989 Jun;36(3):168–71.

On duplicate publication of a manuscript [letter] Seto WH, et al. **Infect Control Hosp Epidemiol** 1990 Jul;11(7):336

Duplicate publication of a manuscript [editorial] Wenzel RP, et al. **Infect Control Hosp Epidemiol** 1990 Jul;11(7):341–2

Duplicate reporting of patients with Rothmund–Thomson syndrome [letter] Moss C. **J Am Acad Dermatol** 1989 Oct; 21(4 Pt 1):815–6

Unintentional duplicate publication [editorial] **J Am Geriatr Soc** 1990 Aug;38(8):952

[Clarifications on an original paper on "Hepatic transplant", published last June in our No. 6–2 issue (letter)] Ardaiz J, et al. **Rev Esp Enferm Apar Dig** 1989 Aug;76(2):197–8 (Spa)

DUPLICATING PROCESSES see COPYING PROCESSES

DUPUYTREN'S CONTRACTURE

Dupuytren's disease. Strickland JW, et al. **Indiana Med** 1990 Jun;83(6):408–9 (3 ref.)

Dupuytren's contracture: a case presentation (study). Duguid KP. **J Audiov Media Med** 1989 Jan;12(1):15

Dupuytren's disease. Gonzalez SM, et al. **West J Med** 1990 Apr;152(4):430–3 (8 ref.)

COMPLICATIONS

Eosinophilic fasciitis with thrombocytopenia and Dupuytren's contracture. Kaklamanis P, et al. **Scand J Rheumatol** 1990;19(3):245–7

DIAGNOSIS

[A study of C-reactive protein in the diagnosis of Dupuytren's contracture] Kuznetsova NL, et al. **Lab Delo** 1989;(9):14–5 (Eng. Abstr.) (Rus)

ETIOLOGY

Aetiology of Dupuytren's contracture. Murrell GA, et al. **Aust N Z J Surg** 1990 Apr;60(4):247–52

Dupuytren's contractures in patients infected with HIV. Bower M, et al. **BMJ** 1990 Jan 20;300(6718):164–5

HISTORY

An early boutonnière deformity. Wallace AF. **Br J Plast Surg** 1966 Jul;19(3):251–2

PATHOLOGY

Cell-controlling factors in Dupuytren's contracture. Hueston JT, et al. **Ann Chir Main Memb Super** 1990;9(2):135–7 (32 ref.)

[Morphologic and hist-enzymatic aspects of palmar aponeurosis in a patient with Marfan syndrome associated with Dupuytren's contracture] Montagnani S, et al. **Arch Putti Chir Organi Mov** 1989;37(2):355–62 (Eng. Abstr.) (Ita)

PHYSIOPATHOLOGY

[Prognosis of the course of Dupuytren's contracture] Kuznetsova NL, et al. **Ortop Travmatol Protez** 1989 Jul; (7):64–6 (Rus)

SURGERY

Dupuytren's contracture in Thailand. Vathana P, et al. **Bull Hosp Jt Dis Orthop Inst** 1990 Spring;50(1):41–7 (7 ref.)

[Clinical aspects and surgical treatment of Dupuytren contracture] Berger A, et al. **Unfallchirurg** 1990 Apr; 93(4):181–5 (22 ref.) (Eng. Abstr.) (Ger)

[Ambulatory surgical treatment of patients with Dupuytren's contracture] Kazinnikova OG, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):42–3 (Eng. Abstr.) (Rus)

[Scalpel-raspatory] Stanislavskiĭ AL. **Khirurgiia (Mosk)** 1989 Aug;(8):119 (Rus)

[Surgical and rehabilitation treatment of Dupuytren's contracture] Chernyshov AV, et al. **Sov Med** 1989;(9):115 (Rus)

THERAPY

[Treatment of Dupuytren's contracture] Kuznetsova NL, et al. **Sov Med** 1989;(8):93–5 (Rus)

DURA MATER

Intradural paraganglioma of the thoracic spine. Silverstein AM, et al. **AJNR** 1990 May;11(3):614–6

High resolution computed tomography of superior sagittal sinus-thrombosis and -abnormalities. Nüssel F, et al. **Neuroradiology** 1989;31(4):307–11

[A case of subdural effusion secondary to dural metastasis of prostatic cancer: case report] Tasaki K, et al. **No Shinkei Geka** 1990 Jun;18(6):539–42 (Eng. Abstr.) (Jpn)

[Spinal epidural lymphoma. A study using computed tomography] Ibarra B, et al. **Neurologia** 1990 Feb; 5(2):48–51 (Eng. Abstr.) (Spa)

ABNORMALITIES

[A case of idiopathic herniation of the spinal cord associated with duplicated dura mater and with an arachnoid cyst] Oe T, et al. **Nippon Seikeigeka Gakkai Zasshi** 1990 Jan; 64(1):43–9 (9 ref.) (Eng. Abstr.) (Jpn)

ANALYSIS

Isolation, purification and partial characterization of novel fluorophores from aging human insoluble collagen-rich tissue. Sell DR, et al. **Connect Tissue Res** 1989;19(1):77–92

[Vasopressin in tissue basophils of the dura mater of white rats] Lomakin AV, et al. **Biull Eksp Biol Med** 1990 Jun; 109(6):583–4 (Eng. Abstr.) (Rus)

ANATOMY & HISTOLOGY

Orientation of fibers in human dorsal lumbar dura mater in relation to lumbar puncture. Fink BR, et al. **Anesth Analg** 1989 Dec;69(6):768–72

[Study of some morphologic aspects of the human dura mater] Jiang DF. **Chung Hua Wai Ko Tsa Chih** 1990 Feb; 28(2):108–9, 128 (Eng. Abstr.) (Chi)

BLOOD SUPPLY

Dural arteriovenous fistulas involving the inferior petrosal sinus: angiographic findings in six patients. Barnwell SL, et al. **AJNR** 1990 May;11(3):511–6

Arteriovenous fistulas of the cervicomedullary junction as a cause of myelopathy: radiographic findings in two cases. Gaensler EH, et al. **AJNR** 1990 May;11(3):518–21

Spinal arteriovenous fistula. A possible cause of paraparesis after epidural anaesthesia. Sghirlanzoni A, et al. **Anaesthesia** 1989 Oct;44(10):831–3

Painful oculomotor nerve palsy due to dural-cavernous sinus shunt. Hawke SH, et al. **Arch Neurol** 1989 Nov; 46(11):1252–5

Postoperative paraplegia in a patient with an unsuspected dural arterio-venous malformation. Woodall N, et al. **Br J Anaesth** 1990 May;64(5):638–41

Dural arteriovenous malformation. Sowka JW. **J Am Optom Assoc** 1989 Nov;60(11):846–8

Insensitivity of tensile failure properties of human bridging veins to strain rate: implications in biomechanics of subdural hematoma. Lee MC, et al. **J Biomech** 1989; 22(6–7):537–42

MR imaging of dural AV fistulas at the cavernous sinus. Komiyama M, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):397–401

Pulsatile tinnitus and dural arteriovenous malformation. Morrison GA. **J Laryngol Otol** 1989 Nov;103(11):1073–5

Intracranial dural arteriovenous malformations: factors predisposing to an aggressive neurological course. Awad IA, et al. **J Neurosurg** 1990 Jun;72(6):839–50 (114 ref.)

Myelopathy and spinal cord AVM [letter; comment] de Toffol B, et al. **J Neurosurg** 1990 May;72(5):833–4 Comment on: J Neurosurg 1989 Mar;70(3):354–9.

Multiple dural arteriovenous malformations. Report of two cases. Kuwayama N, et al. **J Neurosurg** 1989 Dec; 71(6):932–4

Management of dural arteriovenous malformations of the anterior cranial fossa. Martin NA, et al. **J Neurosurg** 1990 May;72(5):692–7

Flow quantification in the superior sagittal sinus using magnetic resonance. Mattle H, et al. **Neurology** 1990 May; 40(5):813–5

Anatomoradiological correlation of the intersection of the carotid siphon with the dura mater. Kraemer JL, et al. **Neuroradiology** 1989;31(5):408–12

Angiography in the investigation of spinal dural arteriovenous fistula. A protocol with application of the venous phase. Willinsky R, et al. **Neuroradiology** 1990; 32(2):114–6

Dural arteriovenous fistulas: evaluation with MR imaging. De Marco JK, et al. **Radiology** 1990 Apr;175(1):193–9

The variable presentations of craniocervical and cervical dural arteriovenous malformations. Willinsky R, et al. **Surg Neurol** 1990 Aug;34(2):118–23

[Diagnosis of a large orbital muscle using a scanner] Riss I, et al. **Bull Soc Ophtalmol Fr** 1989 Oct;89(10):1189–90 (Fre)

[Oculomotor nerve paralysis secondary to dural carotido-cavernous sinus fistula] Bordat B, et al. **Ophtalmologie** 1989 Apr–May;3(2):129–32 (Eng. Abstr.) (Fre)

[Evolution of venous cerebral infarction and brain edema—an experimental study of sagittal sinus obstruction] Kaanuki S, et al. **No To Shinkei** 1989 Dec;41(12):1225–31 (Eng. Abstr.) (Jpn)

[Multiple cerebral venous angiomas associated with mixed pial and dural arteriovenous malformation] Tanohata K, et al. **Rinsho Hoshasen** 1989 Jun;34(6):731–4 (Eng. Abstr.) (Jpn)

[Symptomatic dorsal arteriovenous malformation of the dura mater associated with lumbar lipoma and spina bifida in adults (letter)] Pérez López-Fraile I, et al. **Rev Clin Esp** 1989 Nov;185(7):380-1 **(Spa)**

CYTOLOGY

Sympathetic innervation of the supratentorial dura mater of the rat. Keller JT, et al. **J Comp Neurol** 1989 Dec 8; 290(2):310-21

DRUG EFFECTS

The antimigraine drug, sumatriptan (GR43175), selectively blocks neurogenic plasma extravasation from blood vessels in dura mater. Buzzi MG, et al. **Br J Pharmacol** 1990 Jan; 99(1):202-6

[Lavage of the peridural space in suppurative periduritis in children] Olelnik VS, et al. **Khirurgiia (Mosk)** 1989 Nov; (11):124-5 **(Rus)**

ENZYMOLOGY

Distribution of activity of alkaline phosphatase and Mg-dependent adenosine triphosphatase in the cranial dura mater-arachnoid interface zone of the rat. Angelov DN. **Cell Tissue Res** 1990 May;260(3):595-600

GROWTH & DEVELOPMENT

Structure elucidation of a senescence cross-link from human extracellular matrix. Implication of pentoses in the aging process. Sell DR, et al. **J Biol Chem** 1989 Dec 25; 264(36):21597-602

[Correlations in the development of the spinal cord, dura mater and spinal canal in humans] Rodionov AA, et al. **Arkh Anat Gistol Embriol** 1990 Feb;98(2):18-25 (Eng. Abstr.) **(Rus)**

INJURIES

Fluid flow through dural puncture sites [letter; comment] Janes EF, et al. **Anaesthesia** 1989 Dec;44(12):1011 Comment on: Anaesthesia 1989 May;44(5):415-8.

Prolonged headache after lumbar puncture. Successful treatment with an epidural blood patch in a 12-year-old boy. Robbins KB, et al. **Clin Pediatr (Phila)** 1990 Jun; 29(6):350-2

What is your diagnosis? Swelling of spinal cord associated with dural tear between segments T13 and L1. Montavon PM, et al. **J Am Vet Med Assoc** 1990 Mar 1;196(5):783-4

[The diagnosis and method of surgical treatment in dislocation of the brain under the falx cerebri in craniocerebral trauma] Krylov VV, et al. **Zh Vopr Neirokhir** 1990 May-Jun;(3):3-6 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Chronic extradural haemorrhage. A case report and brief literature review. Lawler W. **Am J Forensic Med Pathol** 1990 Mar;11(1):74-8

Reactions to dural substitutes [letter; comment] Guthkelch AN, et al. **J Neurosurg** 1989 Oct;71(4):629 Comment on: J Neurosurg 1989 Apr;70(4):633-5.

Multifocal fibrosclerosis with hypertrophic intracranial pachymeningitis. Berger JR, et al. **Neurology** 1989 Oct; 39(10):1345-9

Dural "tail" associated with meningiomas on Gd-DTPA-enhanced MR images: characteristics, differential diagnostic value, and possible implications for treatment. Goldsher D, et al. **Radiology** 1990 Aug; 176(2):447-50

Adhesions of the ventral lumbar dura. An adjunct source of discogenic pain? Parke WW, et al. **Spine** 1990 Apr; 15(4):300-3

[Primary malignant lymphoma in the dura and subdural space along the superior sagittal sinus. Case report] Sonoda H, et al. **Neurol Med Chir (Tokyo)** 1989 Oct;29(10):922-6 (Eng. Abstr.) **(Jpn)**

[The effect of fat tissue autotransplantation on the changes in tissue surrounding the dura mater following laminectomy] Inoue S. **Nippon Seikeigeka Gakkai Zasshi** 1989 Nov;63(11):1389-400 (Eng. Abstr.) **(Jpn)**

[Headache secondary to an extradural cyst after lumbar disk surgery (letter)] Martín-Ferrer S. **Neurologia** 1989 Apr; 4(3):109-10 **(Spa)**

PHYSIOLOGY

Mineralization of the falx cerebri simulating interhemispheric vascular anomalies on MR imaging. Report of three cases. Ruge JR, et al. **J Neurosurg** 1990 Jun;72(6):971-4

PHYSIOPATHOLOGY

[Anterior shift of posterior lower cervical dura mater in patients with juvenile muscular atrophy of unilateral upper extremity] Tokumaru Y, et al. **Rinsho Shinkeigaku** 1989 Oct;29(10):1237-43 (Eng. Abstr.) **(Jpn)**

[The effect of concurrent atherosclerosis on the permeability of the dura mater and the efficacy of epidural analgesia with morphine and dicain] Vitenbek IA. **Anesteziol Reanimatol** 1989 Sep-Oct;(5):72-4 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

[Histophysiology of tissue basophils of the cerebral dura mater after laser irradiation] Chertok VM, et al. **Biull Eksp Biol Med** 1989 Oct;108(10):493-5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

CT myelography of a fragment of a lumbar disk sequestered posterior to the thecal sac. Lutz JD, et al. **AJNR** 1990 May;11(3):610-1

SURGERY

Reconstruction of massive defects of the scalp, cranium, and dura after resection of scalp neoplasms. Wackym PA, et al. **Head Neck** 1990 May-Jun;12(3):247-53

Long-term follow-up of six patients with acute spinal injury following dural decompression. Perkins PG, et al. **Injury** 1988 Nov;19(6):397-401

Uses for dural elevator [letter; comment] Aoki N. **J Neurosurg** 1990 May;72(5):834 Comment on: J Neurosurg 1988 Nov;69(5):793.

A new technique for closure of the dura following transsphenoidal and transclival operations. Technical note. Guity A, et al. **J Neurosurg** 1990 May;72(5):824-8

Management of large dural defects in skull base surgery: an update. Johnson GD, et al. **Laryngoscope** 1990 Feb;100(2 Pt 1):200-2

The use of fibrin glue in intracranial procedures: preliminary results. Sierra DH, et al. **Laryngoscope** 1990 Apr; 100(4):360-3

Relationship of suturing of the dura to cerebrospinal fluid fistulas [letter] Ameen AA. **Neurosurgery** 1990 Aug; 27(2):334

Neurosurgical applications of fibrin glue: augmentation of dural closure in 134 patients. Shaffrey CI, et al. **Neurosurgery** 1990 Feb;26(2):207-10

Fascia lata graft as a dural substitute in neurosurgery. Thammavaram KV, et al. **South Med J** 1990 Jun; 83(6):634-6

Experimental evaluation of the net "Dallop" covered with collagen as the dural substitute. Harat M, et al. **Zentralbl Neurochir** 1989;50(3-4):145-8

[Materials for osteo-dural reconstruction in the cranium. An update] George B, et al. **Neurochirurgie** 1989;35(3):145-51 (35 ref.) (Eng. Abstr.) **(Fre)**

[An animal experiment study using the Gore-Tex soft tissue patch as a replacement for lyophilized dura mater] Schadel A. **HNO** 1990 Mar;38(3):95-8 (Eng. Abstr.) **(Ger)**

TRANSPLANTATION

Plasty of tendon with dura mater. Experimental study. Pessoa de Barros TE, et al. **Arch Orthop Trauma Surg** 1990; 109(3):131-2

Repair of vesical fistulae using lyophilised human dura. Simsek U, et al. **Br J Urol** 1990 May;65(5):550

Dura arthroplasty of the hip: a case report. Prasartritha T, et al. **Bull Hosp Jt Dis Orthop Inst** 1990 Spring;50(1):48-53

Surgical correction of severe Peyronie's disease without plaque excision. A new approach. Sampaio JS, et al. **Eur Urol** 1989;16(6):460-2

Treatment of periodontal furcation defects. Coronally positioned flaps versus dura mater membranes in class II defects. Garrett S, et al. **J Clin Periodontol** 1990 Mar; 17(3):179-85

FDA panel discussion on cadaver dura [letter] Gummerlock MK, et al. **J Neurosurg** 1990 Aug;73(2):310

Transmission of Creutzfeldt-Jakob disease by dural cadaveric graft [letter; comment] Masullo C, et al. **J Neurosurg** 1989 Dec;71(6):954-5 Comment on: J Neurosurg 1988 Nov;69(5):766-9.

Reconstruction of the temporomandibular joint with cryopreserved cartilage and freeze-dried dura: a preliminary report. Hartog JM, et al. **J Oral Maxillofac Surg** 1990 Sep;48(9):919-25 (40 ref.)

Human freeze-dried dura mater allografts as a periodontal biological bandage. Zaner DJ, et al. **J Periodontol** 1989 Nov;60(11):617-23

Cadaveric dura mater graft for correction of penile curvature in Peyronie disease. Fallon B. **Urology** 1990 Feb;35(2):127-9

[Closing of an extensive abdominal wall defect with an implant of preserved dura mater in animal experiments. Mechanical and morphological studies] Wojtyczka A. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):330-6 (Eng. Abstr.) **(Ger)**

[Plastic surgery of bronchial stump using dura mater after pneumonectomy in patients with lung cancer] Tevit BM, et al. **Grud Serdechnososudistaia Khir** 1990;(5):51-3 (Eng. Abstr.) **(Rus)**

[Plastic surgery of the tympanic membrane using embryonic dura mater] Rodin VI, et al. **Vesta Otorinolaringol** 1990 May-Jun;(3):60-2 **(Rus)**

[Use of cadaveric homologous homotransplantation for repair of dura mater defects] Konjhodžić F, et al. **Med Arh** 1986; 40(1-2):3-5 (Eng. Abstr.) **(Ser)**

DURABLE MEDICAL EQUIPMENT

STANDARDS

Portable volume ventilators. **Health Devices** 1988 Apr; 17(4):107-31

Home health care equipment. **Health Devices** 1988 May; 17(5):170

DURSBAN

Determination of 3,5,6-trichloro-2-pyridinol levels in the urine of termite control workers using chlorpyrifos. Jitsunari F, et al. **Acta Med Okayama** 1989 Oct; 43(5):299-306

Sublethal effects of chlorpyrifos-methyl on reproduction in female German cockroaches (Dictyoptera: Blattellidae). Hamilton RL, et al. **J Econ Entomol** 1990 Apr;83(2):441-3

Management of lone star ticks (Acari: Ixodidae) in recreational areas with acaricide applications, vegetative management, and exclusion of white-tailed deer. Bloemer SR, et al. **J Med Entomol** 1990 Jul;27(4):543-50

[Sensitivity of mosquito larvae to insecticides in the region of Tunis in 1984 and 1988] Kooli J, et al. **Arch Inst Pasteur Tunis** 1989 Jan-Apr;66(1-2):61-71 (Eng. Abstr.) **(Fre)**

[The actual state of occupational exposure to chlorpyrifos of termite control workers] Asakawa F, et al. **Nippon Eiseigaku Zasshi** 1989 Oct;44(4):921-8 (Eng. Abstr.) **(Jpn)**

[Variations in blood cholinesterase activity and exposure to chlorpyrifos in termite-control workers] Jitsunari F, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1049-58 (Eng. Abstr.) **(Jpn)**

[Determination of 3,5,6-trichloro-2-pyridinol in urine of workers exposed to chlorpyrifos using wide bore capillary gas chromatography] Asakawa F, et al. **Sangyo Igaku** 1989 Jul;31(4):242-3 **(Jpn)**

[Relationship between exposure to chlorpyrifos and concentration of urinary alkylphosphates in termite control workers] Sunaga M, et al. **Sangyo Igaku** 1989 May; 31(3):142-9 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

Oxidative desulfuration of chlorpyrifos, chlorpyrifos-methyl, and leptophos by rat brain and liver. Chambers JE, et al. **J Biochem Toxicol** 1989 Fall;4(3):201-3

Serum paraoxonase and its influence on paraoxon and chlorpyrifos-oxon toxicity in rats. Costa LG, et al. **Toxicol Appl Pharmacol** 1990 Mar 15;103(1):66-76

The combined effect of dursban and Reldan on nubian goats. Mohamed OS, et al. **Vet Hum Toxicol** 1990 Feb;32(1):47-8

ANALYSIS

Concentrations of diazinon, chlorpyrifos, and bendiocarb after application in offices. Currie KL, et al. **Am Ind Hyg Assoc J** 1990 Jan;51(1):23-7

Potential exposure and health risks of infants following indoor residential pesticide applications. Fenske RA, et al. **Am J Public Health** 1990 Jun;80(6):689-93

Gas chromatographic method for determination of chlorpyrifos and its metabolite 3,5,6-trichloro-2-pyridinol (TCP) in dates. Mourer CR, et al. **J Assoc Off Anal Chem** 1990 Mar-Apr;73(2):294-7

METABOLISM

Spectrophotometric assays for the enzymatic hydrolysis of the active metabolites of chlorpyrifos and parathion by plasma paraoxonase/arylesterase. Furlong CE, et al. **Anal Biochem** 1989 Aug 1;180(2):242-7

Oxidative desulfuration of chlorpyrifos, chlorpyrifos-methyl, and leptophos by rat brain and liver. Chambers JE, et al. **J Biochem Toxicol** 1989 Fall;4(3):201-3

POISONING

Chlorpyrifos toxicosis in two cats. Jaggy A, et al. **J Vet Intern Med** 1990 May-Jun;4(3):135-9

TOXICITY

Chlorpyrifos: a 13-week nose-only vapor inhalation study in Fischer 344 rats. Corley RA, et al. **Fundam Appl Toxicol** 1989 Oct;13(3):616-8

The combined effect of dursban and Reldan on nubian goats. Mohamed OS, et al. **Vet Hum Toxicol** 1990 Feb;32(1):47-8

[Mutagenic effect of pesticides fastac 10 EK and durs ban 4E studied in a micronucleus test iin mouse bone marrow cells] Benova DK, et al. **Genetika** 1989 Dec;25(12):2266-8 (Eng. Abstr.) **(Rus)**

DUST

see related
PNEUMOCONIOSIS

Organic dusts and lung diseases. Proceedings of an international workshop. Skokloster, Sweden, October 24-27, 1988. **Am J Ind Med** 1990;17(1):1-148

Humoral immunological profiles of a group of mill workers. Carvalheiro MF, et al. **Am J Ind Med** 1990;17(1):99-100

Message from WHO: importance of research on organic dusts to the Workers' Health Program of the World Health Organization. Ng TK. **Am J Ind Med** 1990;17(1):3-4

Pneumoconiosis in pottery workers and its trends in north Staffordshire from the point of view of the Medical Boarding Centre (Respiratory Diseases), Stoke-on-Trent. Chatterjee AK. **Ann Occup Hyg** 1989;33(3):369-74

The use of dust-collecting cassettes in dust samplers. Mark

D. **Ann Occup Hyg** 1990 Jun;34(3):281–91

Respiratory symptoms and pulmonary impairment in male and female subjects with pottery workers' silicosis. Prowse K, et al. **Ann Occup Hyg** 1989;33(3):375–85

Performance testing of the OSIRIS dust monitoring system. Roebuck B, et al. **Ann Occup Hyg** 1990 Jun;34(3):263–79

Silicotic bronchiolitis obliterans. Gross P, et al. **Arch Environ Health** 1966 Jan;12(1):5–9

Cholinesterase inhibition by organic phosphate dust. Whole blood cholinesterase inhibition in vitro by an organic phosphate antihelminthic. Simpson GR. **Arch Environ Health** 1967 Jul;15(1):70–1

Community chest x-rays for pneumoconiosis prevention. Tanaka S, et al. **Arch Environ Health** 1966 Jan;12(1):10–4

Dogs hypersensitive to house dust mite. Ino Y, et al. **Arerugi** 1989 Jul;38(7):580–2

A controlled-trial of house dust mite eradication using natamycin in homes of patients with atopic dermatitis [letter; comment] Vickers CF. **Br J Dermatol** 1990 Mar; 122(3):426 Comment on: Br J Dermatol 1989 Aug;121(2):199–208.

Inflammatory responses in lungs of rats inhaling coalmine dust: enhanced proteolysis of fibronectin by bronchoalveolar leukocytes. Brown GM, et al. **Br J Ind Med** 1989 Dec;46(12):866–72

The spectrum of low molecular weight house dust mite (Dermatophagoides pteronyssinus) allergens with emphasis on Der p II. Ford SA, et al. **Clin Exp Allergy** 1990 Jan; 20(1):27–31

Ecology of house dust mites in Oxfordshire. Hart BJ, et al. **Clin Exp Allergy** 1990 Mar;20(2):203–9

Resuscitation by extracorporeal lung assist of a patient suffocating after inhalation of sawdust particles. Terasaki H, et al. **Crit Care Med** 1990 Feb;18(2):239–40

Long–term retention and clearance of particles inhaled by mammalian species. Snipes MB. **Crit Rev Toxicol** 1989; 20(3):175–211 (264 ref.)

Lymphocyte modulation by inflammatory bronchoalveolar leukocytes. Kusaka Y, et al. **FEMS Microbiol Immunol** 1990 May;2(1):9–10

Electrical charge characteristics of long–lived radioactive dust. Bigu J. **Health Phys** 1990 Mar;58(3):341–50

Adjuvant activity of respirable iron ore dust. Keast D, et al. **Immunol Cell Biol** 1989 Jun;67 (Pt 3):161–8

Measurement of reactive oxygen metabolites produced by human monocyte–derived macrophages exposed to mineral dusts. Nyberg P, et al. **Int J Exp Pathol** 1990 Aug; 71(4):537–44

Change in airway responsiveness to inhaled house dust from childhood to adulthood. Gerritsen J, et al. **J Allergy Clin Immunol** 1990 Jun;85(6):1083–9

Ultrastructure of a Bacillus sp. strain KL8 isolated from indoor dust. Kari M, et al. **J Basic Microbiol** 1990; 30(2):99–104

The effect of dust–suppressant additives on the physical properties of an irreversible hydrocolloid. Veres É, et al. **J Prosthet Dent** 1990 Jan;63(1):90–4

Effect of in vivo coal dust exposure on arachidonic acid metabolism in the rat alveolar macrophage. Kuhn DC, et al. **J Toxicol Environ Health** 1990;29(2):157–68

Isolation of keratinophilic fungi from the dust of ferry boats and trains in Italy. Mercantini R, et al. **Mycoses** 1989 Nov; 32(11):590–4

Inhalation toxicity of chromium dioxide dust to rats after two years exposure. Lee KP, et al. **Sci Total Environ** 1989 Oct 1;86(1–2):83–108

Speciation, bioavailability, and systemic distribution of chromium from Whetlerite dust. Salem H, et al. **Sci Total Environ** 1989 Oct 1;86(1–2):59–64

Release of mutagens after chemical or microbial degradation of beech wood lignin. Mohtashamipur E, et al. **Toxicol Lett** 1990 May;51(3):277–85

Fungi of the house dust in Riyadh, Saudi Arabia. Saad RR, et al. **Zentralbl Mikrobiol** 1990;145(1):65–8

[The immunotoxicological basis for the revision of suspended particulates health standard] Wang J, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1989 Jul;23(4):211–4 (Eng. Abstr.) (Chi)

[Serum lysozyme and copper levels in rats after the administration of dust] Havránková J, et al. **Bratisl Lek Listy** 1990 Feb;91(2):111–4 (Eng. Abstr.) (Cze)

[Fine particles and dust in animal feeds—quantitative and qualitative (fungi, bacteria and LPS) aspects] Kamphues J, et al. **Berl Munch Tierarztl Wochenschr** 1989 Dec 1; 102(12):418–21 (Eng. Abstr.) (Ger)

[Results of an epidemiological study with subsequent specialized diagnostic studies in dust exposure] Maintz G, et al. **Z Gesamte Hyg** 1990 Mar;36(3):158–60 (Eng. Abstr.) (Ger)

[Use of house dust extracts in allergological diagnosis and therapy] Cadario G, et al. **Minerva Med** 1989 Sep; 80(9):983–6 (Eng. Abstr.) (Ita)

[Studies of skin test on diagnosis of nasal allergy induced house dust and mites] Nakashima K. **Arerugi** 1990 Apr; 39(4):410–7 (Eng. Abstr.) (Jpn)

[Atopic dermatitis and the house dust mite] Yoshida H. **Arerugi** 1989 Jul;38(7):517–23 (37 ref.) (Jpn)

[The fauna, number and spatial distribution of mites (Acari) in house dust in Moscow] Zhëltikova TM, et al. **Biol Nauki** 1990;(1):42–52 (Eng. Abstr.) (Rus)

[Data for the assessment of maximum allowable concentration of dust in the air of work zone during production of permanent magnets based on samarium and cobalt] Dubelkovskaia LS, et al. **Gig Tr Prof Zabol** 1990; (5):17–9 (Eng. Abstr.) (Rus)

[Determination of potential carcinogenicity of nickel–containing dust using a micronuclear test] Kiseleva AA, et al. **Gig Tr Prof Zabol** 1989;(9):31–2 (Eng. Abstr.) (Rus)

[Value of immunologic studies in the assessment of the effects of the dust factor based on the example of artificial mineral fiber substances (silicon carbide)] Sharshenova AA, et al. **Gig Tr Prof Zabol** 1989;(9):49–51 (Rus)

[House dust mold in Istanbul. I. Detection of mold flora in bed dust] Ozyaral O, et al. **Mikrobiyol Bul** 1988 Jan; 22(1):51–60 (Eng. Abstr.) (Tur)

ADVERSE EFFECTS

Histological changes in the nasal mucosa in rats after long–term exposure to formaldehyde and wood dust. Holmström M, et al. **Acta Otolaryngol (Stockh)** 1989 Sep–Oct;108(3–4):274–83

House dust mite, Dermatophagoides pteronyssinus, and its allergens: effects of washing. Andersen A, et al. **Allergy** 1989 Aug;44(6):396–400

Who will benefit from hyposensitization? Predictive parameters in house dust mite allergic asthmatics. Mosbech H. **Allergy** 1990 Apr;45(3):209–12

Hyposensitization in asthmatics with mPEG–modified and unmodified house dust mite extract. III. Effect on mite–specific immunological parameters and correlation to changes in mite–sensitivity and symptoms. Mosbech H, et al. **Allergy** 1990 Feb;45(2):130–41

Hyposensitization in asthmatics with mPEG–modified and unmodified house dust mite extract. IV. Occurrence and prediction of side effects. Mosbech H, et al. **Allergy** 1990 Feb;45(2):142–50

Environmental challenge. Schlueter DP. **Allergy Proc** 1989 Sep–Oct;10(5):339–44

Grain dust asthma. Tse KS. **Allergy Proc** 1990 Mar–Apr; 11(2):61–2

Respiratory health effects from occupational exposure to wood dust in sawmills. Rastogi SK, et al. **Am Ind Hyg Assoc J** 1989 Nov;50(11):574–8

A case–control study of circulatory, malignant, and respiratory morbidity in carbon black workers in the United States. Robertson JM, et al. **Am Ind Hyg Assoc J** 1989 Oct;50(10):510–5

Adenocarcinoma and wood. Schraub S, et al. **Am J Epidemiol** 1989 Dec;130(6):1164–6

Celiac disease and organic dust toxic syndrome. Axmacher B, et al. **Am J Ind Med** 1990;17(1):94–5

Bronchoalveolar lavage in persons acutely exposed to dust in the farm environment. Bjermer L, et al. **Am J Ind Med** 1990;17(1):106

Guidelines for evaluation of clinical cases. doPico G. **Am J Ind Med** 1990;17(1):132–5

Characterization of health effects of wood dust exposures. Enarson DA, et al. **Am J Ind Med** 1990;17(1):33–8 (19 ref.)

The role of inflammatory mediators in airway edema and obstruction produced in guinea pigs exposed to inhaled endotoxin or cotton dusts. Gordon T. **Am J Ind Med** 1990; 17(1):107–8

Prevention of hazardous conditions in agriculture. Höglund S. **Am J Ind Med** 1990;17(1):143–4

Inflammation in organic dust–induced lung disease: new approaches for research into underlying mechanisms. Holt PG. **Am J Ind Med** 1990;17(1):47–54 (27 ref.)

Characterization of health effects of grain dust exposures. Hurst TS, et al. **Am J Ind Med** 1990;17(1):27–32 (26 ref.)

Organic dust toxic syndrome among Finnish farmers. Husman K, et al. **Am J Ind Med** 1990;17(1):79–80

Effects of wood dust exposure on respiratory health: cross–sectional study among farmers exposed to wood dust. Li DH, et al. **Am J Ind Med** 1990;17(1):84–5

Occupational immunological lung disease in China. Liu JY. **Am J Ind Med** 1990;17(1):88–9

Health effects of organic dust exposure in dairy farmers. Malmberg P. **Am J Ind Med** 1990;17(1):7–15 (66 ref.)

Organic dust toxic syndrome: a follow–up study. May JJ, et al. **Am J Ind Med** 1990;17(1):111–3

Investigation of bronchoalveolar lavage (BAL)–fluid in persons exposed to organic dusts. Müller S, et al. **Am J Ind Med** 1990;17(1):114–5

Organic dust toxic syndrome in Swedish farmers: symptoms, clinical findings, and exposure in 98 cases. Rask–Andersen A, et al. **Am J Ind Med** 1990;17(1):116–7

Unifying concepts underlying the effects of organic dust exposures. Richerson HB. **Am J Ind Med** 1990;17(1):139–42

Clinical, epidemiological, and laboratory criteria for the diagnosis of bagassosis. Rodríguez Lastra J, et al. **Am J Ind Med** 1990;17(1):81–3

Influence of atopy and smoking on symptoms—clinical findings. Rosenhall L. **Am J Ind Med** 1990;17(1):130–1

Questionnaire evaluating organic dust exposure. Rylander R, et al. **Am J Ind Med** 1990;17(1):121–6

Bronchial hyperreactivity among pig and dairy farmers. Rylander R, et al. **Am J Ind Med** 1990;17(1):66–9

Health effects of cotton dust exposures. Rylander R. **Am J Ind Med** 1990;17(1):39–45 (16 ref.)

Effects of peat dust exposure. Sandström T, et al. **Am J Ind Med** 1990;17(1):90–1

Cancer risks associated with 10 inorganic dusts: results from a case–control study in Montreal. Siemiatycki J, et al. **Am J Ind Med** 1989;16(5):547–67

Exposure pattern in relation to symptoms—clinical findings. Thelin A. **Am J Ind Med** 1990;17(1):129

Lower respiratory tract inflammation in grain farmers. von Essen SG, et al. **Am J Ind Med** 1990;17(1):75–6

Effects of wood dust exposure on respiratory health: report of an animal experiment. Yuan L, et al. **Am J Ind Med** 1990;17(1):86–7

Modulation of inflammatory cell function by cotton bract tannin: changes in the capacity of alveolar macrophages and neutrophils to produce hydrogen peroxide. Vuk–Pavlović Z, et al. **Am J Respir Cell Mol Biol** 1990 Sep;3(3):235–43

Toxicity of intratracheally instilled cotton dust, cellulose, and endotoxin. Milton DK, et al. **Am Rev Respir Dis** 1990 Jul; 142(1):184–92

Morphologic characterization of alveolar macrophages from subjects with occupational exposure to inorganic particles. Takemura T, et al. **Am Rev Respir Dis** 1989 Dec; 140(6):1674–85

Role of cockroaches in allergy to house dust in Calcutta, India. Tandon N, et al. **Ann Allergy** 1990 Feb;64(2 Pt 1):155–7

Lead poisoning in adults from renovation of an older home. Schneitzer L, et al. **Ann Emerg Med** 1990 Apr;19(4):415–20

Preventing dust diseases. Seaton A. **Ann Occup Hyg** 1989; 33(3):359–64 (14 ref.)

Comparative effects of inhaled silica or synthetic graphite dusts on rat alveolar cells. Anderson RS, et al. **Arch Environ Contam Toxicol** 1989 Nov;18(6):844–9

Effects of chronic organic dust exposure on respiratory function and airway responsiveness in peat moss factory workers. Cormier Y, et al. **Arch Environ Health** 1990 Jan–Feb;45(1):20–3

The lung's response to inhaled organic dusts [editorial] Dickie HA, et al. **Arch Environ Health** 1967 Aug;15(2):139–40

Lignite and the derived steam–activated carbon. The pulmonary response to their dusts. Gross P, et al. **Arch Environ Health** 1967 Mar;14(3):450–60

Acute pulmonary edema in a storehouse of moldy oranges: a severe case of the organic dust toxic syndrome. Yoshida K, et al. **Arch Environ Health** 1989 Nov–Dec;44(6):382–4

Respiratory symptoms and lung function in jute processing workers: a primary investigation. Zhou C, et al. **Arch Environ Health** 1989 Nov–Dec;44(6):370–4

Pulmonary injury in laboratory animals induced by Huai–Nan coal mine respirable dust. Chen BH, et al. **Biomed Environ Sci** 1988 Oct;1(3):247–52

Stomach cancer and work in dusty industries. Coggon D, et al. **Br J Ind Med** 1990 May;47(5):298–301

Inflammation in the lungs of rats after deposition of dust collected from the air of wool mills: the role of epithelial injury and complement activation. Donaldson K, et al. **Br J Ind Med** 1990 Apr;47(4):231–8

Occupational asthma due to unheated polyvinylchloride resin dust. Lee HS, et al. **Br J Ind Med** 1989 Nov;46(11):820–2

Mortality of glass filament (textile) workers. Shannon HS, et al. **Br J Ind Med** 1990 Aug;47(8):533–6

A dosimetric approach for relating the biological response of the lung to the accumulation of inhaled mineral dust. Vincent JH, et al. **Br J Ind Med** 1990 May;47(5):302–7

Impact of the working environment upon the state of health of the dockers handling dusty materials (with a special regard to respiratory and circulatory system). Renke W. **Bull Inst Marit Trop Med Gdynia** 1988;39(3–4):165–9

Tea dust—an occupational hazard. de Alwis WR. **Ceylon Med J** 1989 Jun;34(2):45–7

Acute effects of herbal tea dust extracts on lung function. Zuskin E, et al. **Chest** 1989 Dec;96(6):1327–31

Lymphocyte activation by house dust allergen in asthma: analysis with monoclonal antibodies. Kus J. **Clin Exp Allergy** 1990 Mar;20(2):165–70

House dust mite sensitivity: a comparison of immune response with exposure to four species of Pyroglyphidae. Young RP, et al. **Clin Exp Allergy** 1990 May;20(3):319–25

Assessment and control of house dust mite infestation. Bischoff E, et al. **Clin Ther** 1990 May–Jun;12(3):216–20

Contrasting bronchoalveolar leukocyte responses in rats inhaling coal mine dust, quartz, or titanium dioxide: effects of coal rank, airborne mass concentration, and cessation of exposure. Donaldson K, et al. **Environ Res** 1990 Jun; 52(1):62–76

In vitro cytotoxic effects of cobalt–containing dusts on mouse peritoneal and rat alveolar macrophages. Lison D, et al. **Environ Res** 1990 Aug;52(2):187–98

Structural determinants of the platelet agonist activity of cotton bract condensed tannin. Rohrbach MS, et al. **Environ Res** 1990 Aug;52(2):199–209

Characteristics of patients with soybean dust–induced acute severe asthma requiring mechanical ventilation. Ferrer A, et al. **Eur Respir J** 1990 Apr;3(4):429–33

Symposium on Health Effects of Occupational Exposure to Inorganic Dusts. Maastricht, The Netherlands, March 1989. Proceedings. **Exp Lung Res** 1990 Jan;16(1):1–80

Molecular epidemiology of coal worker's pneumoconiosis: application to risk assessment of oxidant and monokine generation by mineral dusts. Borm PJ, et al. **Exp Lung Res** 1990 Jan;16(1):57–71

Mineral dust exposure and free radical–mediated lung damage. Doelman CJ, et al. **Exp Lung Res** 1990 Jan; 16(1):41–55 (70 ref.)

Epidemiologic studies of inorganic dust–related lung diseases in The Netherlands. Meijers JM, et al. **Exp Lung Res** 1990 Jan;16(1):15–23

Reversibility of biochemical and cytological alterations in broncho–alveolar lavagate upon cessation of dust exposure. Creutzenberg O, et al. **Exp Pathol** 1989;37(1–4):243–7

Dust overloading causes impairment of pulmonary clearance: evidence from rats and humans. Pritchard JN. **Exp Pathol** 1989;37(1–4):39–42 (16 ref.)

Theory (or model) of the joint influence of occupational exposure to carcinogenic dust and to cigarette smoke and occupational lung cancer. Sterling TD. **Exp Pathol** 1989; 37(1–4):181–5 (21 ref.)

An analysis of alveolar macrophage mobility kinetics at dust overloading of the lungs. Yu CP, et al. **Fundam Appl Toxicol** 1989 Oct;13(3):452–9

Occupational groups potentially exposed to silica dust: a comparative analysis of cancer mortality and incidence based on the Nordic occupational mortality and cancer incidence registers. Lynge E, et al. **IARC Sci Publ** 1990; (97):7–20

Silica and cancer associations from a multicancer occupational exposure case–referent study. Siemiatycki J, et al. **IARC Sci Publ** 1990;(97):29–42

Epidemiological aspects of the relationship between exposure to silica dust and lung cancer. Simonato L, et al. **IARC Sci Publ** 1990;(97):1–5 (11 ref.)

Health effects of exposure to endotoxins and organic dust in poultry slaughter–house workers. Hagmar L, et al. **Int Arch Occup Environ Health** 1990;62(2):159–64

Gastrointestinal cancer among cement workers. A case–referent study. Jakobsson K, et al. **Int Arch Occup Environ Health** 1990;62(4):337–40

Dust exposure, eye redness, eye cytology and mucous membrane irritation in a tobacco industry. Kjaergaard SK, et al. **Int Arch Occup Environ Health** 1989;61(8):519–25

Health hazards from fine asbestos dusts. An analysis of 70,656 occupational preventive medical investigations from 1973 to the end of 1986. Raithel HJ, et al. **Int Arch Occup Environ Health** 1989;61(8):527–41

Long–term exposure to cement dust and later hospitalization due to respiratory disease. Vestbo J, et al. **Int Arch Occup Environ Health** 1990;62(3):217–20

House dust, animal proteins, pollutants, and environmental controls. Montanaro A. **J Allergy Clin Immunol** 1989 Dec; 84(6 Pt 2):1125–8

Coal dust and compensation [see comments] **Lancet** 1990 Feb 10;335(8685):322–4 (26 ref.) Comment in: Lancet 1990 Mar 3;335(8688):537–8. Comment in: Lancet 1990 Mar 31;335(8692):786.

Control of house dust mite antigen in bedding [letter; comment] Denman AM, et al. **Lancet** 1990 Apr 28; 335(8696):1038 Comment on: Lancet 1990 Feb 17;335(8686):396–7.

Coal dust and compensation [letter; comment] Morgan WK. **Lancet** 1990 Mar 31;335(8692):786 Comment on: Lancet 1990 Feb 10;335(8685):322–4.

Control of house dust mite antigen in bedding [see comments] Owen S, et al. **Lancet** 1990 Feb 17;335(8686):396–7 Comment in: Lancet 1990 Apr 14;335(8694):911–2. Comment in: Lancet 1990 Apr 28;335(8696):1038.

Coal dust and compensation [letter; comment] Seaton A. **Lancet** 1990 Mar 3;335(8688):537–8 Comment on: Lancet 1990 Feb 10;335(8685):322–4.

Control of house dust mite antigen in bedding [letter; comment] Walshaw MJ, et al. **Lancet** 1990 Apr 14; 335(8694):911–2 Comment on: Lancet 1990 Feb 17;335(8686):396–7.

House–dust mite reduction strategies in the treatment of asthma. Thompson PJ, et al. **Med J Aust** 1989 Oct 2; 151(7):408, 411

Respiratory disorders and lung function impairment in pyrite miners. Franzinelli A, et al. **Med Lav** 1989 Nov–Dec; 80(6):479–88

Study on mutagenesis and carcinogenesis of productive nickel dust. Zhong BZ, et al. **Prog Clin Biol Res** 1990;340E:41–6

The epidemiology of the morbidity of respiratory system malignant neoplasm in Poland on the background of the increasing atmospheric air pollution by dust and vehicle exhaust emission. Przybylski Z. **Rocz Panstw Zakl Hig** 1989;40(4–6):257–65

Utilization of masks by Hutterite farmers. Schlenker EH, et al. **S D J Med** 1990 Mar;43(3):13–7

Smoking habits and lifetime occupational exposure to gases or dusts, including asbestos and quartz, in a Norwegian community. Bakke P, et al. **Scand J Work Environ Health** 1990 Jun;16(3):195–202

Nonmalignant respiratory disease among hematite mine workers in China. Chen SY, et al. **Scand J Work Environ Health** 1989 Oct;15(5):319–22

Effects of exposure to dust in swine confinement buildings—a working group report. Rylander R, et al. **Scand J Work Environ Health** 1989 Oct;15(5):309–12

A study on the usage of respirators among granite quarry workers in Singapore. Chia SE. **Singapore Med J** 1989 Jun; 30(3):269–72

Occupational asthma due to tea dust. Cartier A, et al. **Thorax** 1990 Mar;45(3):203–6

The comparison of a fibrogenic and two nonfibrogenic dusts by bronchoalveolar lavage. Lindenschmidt RC, et al. **Toxicol Appl Pharmacol** 1990 Feb;102(2):268–81

Pulmonary function study in female grinders exposed to agate dust. Rastogi SK, et al. **Toxicol Ind Health** 1990 Jan; 6(1):145–54

In vitro assays to predict the pathogenicity of mineral fibers. Mossman BT, et al. **Toxicology** 1990 Jan–Feb;60(1–2):53–61

[Changes of non–specific immunity in rats after intratracheal instillation of tin ore dusts] Hu T. **Chung Hua I Hsueh Tsa Chih** 1990 Apr;70(4):218–20 (Chi)

[The risk of silicosis from building site dust] Brendstrup T, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1882–6 (30 ref.) (Eng. Abstr.) (Dan)

[The cobalt lung in diamond cutters: a new disease] Demedts M, et al. **Verh K Acad Geneeskd Belg** 1989;51(6):559–81 (Eng. Abstr.) (Dut)

[Domestic and occupational pneumo–allergens among workers with tropical wood in Abidjan (Ivory Coast)] Pigearias B, et al. **Allerg Immunol (Paris)** 1989 Nov; 21(9):338–41 (Eng. Abstr.) (Fre)

[House–dust mites and the diagnosis of respiratory allergies] Abed–Benamara M. **Arch Inst Pasteur Alger** 1986;55:91–8 (Eng. Abstr.) (Fre)

[Adenocarcinoma of the ethmoid sinus in a woodworker: apropos of a case] de Pree C, et al. **Schweiz Med Wochenschr** 1989 Jul 22;119(29):1013–5 (Eng. Abstr.) (Fre)

[Bowmaker's disease: an occupational disease in the manufacture of bows for string instruments] Hausen BM, et al. **Dtsch Med Wochenschr** 1990 Feb 2;115(5):169–73 (Eng. Abstr.) (Ger)

[Pneumoconioses—current status of knowledge] Ulmer WT. **Internist (Berl)** 1990 Apr;31(4):268–71 (11 ref.) (Ger)

[Nursery schools, a site for exposure to house dust mite allergens?] Rebmann H, et al. **Monatsschr Kinderheilkd** 1989 Oct;137(10):672–4 (Eng. Abstr.) (Ger)

[Are there risk factors for stenosing laryngitis? Results of the Southern Bavaria pseudo–croup study] von Mutius E, et al. **Monatsschr Kinderheilkd** 1989 Nov;137(11):716–21 (Eng. Abstr.) (Ger)

[Tooth abrasions caused by quartz dust—a new occupational disease] Giesen T. **Off Gesundheitswes** 1990 Mar; 52(3):151–2 (Ger)

[Asbestos types, lung dust analysis, exposure and latency time of malignant mesotheliomas in German Switzerland] Rüttner JR, et al. **Pathologe** 1990 Jan;11(1):25–30 (Ger)

[Suspended dust from artificial mineral fibers at the work site] Bigga E. **Pneumologie** 1990 Jul;44(7):841–5 (Eng. Abstr.) (Ger)

[Etiology, pathogenesis and clinical aspects of hard metal fibrosis of the lung] Hartung M. **Pneumologie** 1990 Feb; 44(2):49–54 (22 ref.) (Ger)

[Hard metal–induced lung changes. Hard metal asthma—interstitial hard metal pneumopathy] Knape H. **Pneumologie** 1990 Jul;44(7):862–5 (Eng. Abstr.) (Ger)

[Allergic alveolitis or intrinsic asthma? (A case report)] Kneussl M, et al. **Pneumologie** 1990 Jul;44(7):910–2 (Eng. Abstr.) (Ger)

[Occupational and non–occupational effects of asbestos] Konetzke GW, et al. **Pneumologie** 1990 Jul;44(7):858–61 (Eng. Abstr.) (Ger)

[Results of a questionnaire survey of pulmonary complaints of dental technicians: effect of the duration of occupational activity (total exposure time)] Kronenberger H, et al. **Pneumologie** 1990 Feb;44 Suppl 1:247–9 (Eng. Abstr.) (Ger)

[Animal experiment studies of the biological effect of artificial mineral fibers] Kullmann HJ, et al. **Pneumologie** 1990 Jul; 44(7):846–9 (Eng. Abstr.) (Ger)

[The morphologic reaction pattern to fiber dust] Müller KM, et al. **Pneumologie** 1990 Jul;44(7):850–4 (18 ref.) (Eng. Abstr.) (Ger)

[Artificial mineral fibers and the risk of cancer] Neuberger M. **Pneumologie** 1990 Jul;44(7):855–7 (6 ref.) (Eng. Abstr.) (Ger)

[Knowledge of carcinogenic and immunologic findings caused by the zeolite fiber erionite] Ozesmi M, et al. **Pneumologie** 1990 Feb;44 Suppl 1:335–6 (Eng. Abstr.) (Ger)

[Pulmonary risks caused by exposure to glass fiber dust] Radenbach D, et al. **Pneumologie** 1990 Feb;44 Suppl 1:250–1 (Eng. Abstr.) (Ger)

[Specific IgG and IgE antibodies in house dust mite asthmatic patients and control probands] Sarvan M, et al. **Pneumologie** 1990 Feb;44 Suppl 1:375–7 (Eng. Abstr.) (Ger)

[Results of a questionnaire survey of pulmonary complaints in dental technicians: effect of inhalation exposure to heavy metal dusts (cobalt–chromium alloys)] Schröter U, et al. **Pneumologie** 1990 Feb;44 Suppl 1:322–4 (Eng. Abstr.) (Ger)

[Exogenous allergic asthma following pectin exposure—a new occupational allergen] Westphal W, et al. **Pneumologie** 1990 Feb;44 Suppl 1:337–8 (Eng. Abstr.) (Ger)

[Respiratory allergies in bakers] Hartmann AL. **Ther Umsch** 1989 Nov;46(11):796–800 (20 ref.) (Eng. Abstr.) (Ger)

[Nasal septum perforation caused by calcium carbide dust] Seeber H, et al. **Z Arztl Fortbild (Jena)** 1989;83(24):1267–9 (Ger)

[Fibrosing lung process caused by TEL mineral wool] Aigner K, et al. **Z Erkr Atmungsorgane** 1989;173(3):247–9 (Eng. Abstr.) (Ger)

[Bronchial hyperreactivity of employees in swine and cattle breeding] Scheefeldt M, et al. **Z Erkr Atmungsorgane** 1990; 174(2):131–6 (Eng. Abstr.) (Ger)

[A case report of welder's lung] Wagner U, et al. **Z Erkr Atmungsorgane** 1990;174(2):149–54 (Eng. Abstr.) (Ger)

[pH and IgA determination of nasal secretions—possible use in occupational medicine–rhinologic diagnosis in relation to function] Hummel K, et al. **Z Gesamte Hyg** 1990 Jun; 36(6):320–2 (Eng. Abstr.) (Ger)

[Early detection of scleroderma in quartz dust exposed workers and workers with silicosis by determining serum beta–galactosidase activity] Mehlhorn J, et al. **Z Gesamte Hyg** 1990 Jan;36(1):48–50 (Eng. Abstr.) (Ger)

[Risk of nose cancer following occupational exposure to organic dusts] Scheidt R, et al. **Z Gesamte Hyg** 1989 Dec; 35(12):714–7 (Ger)

[Results of an analysis of age and cause of death in 1,000 silicosis autopsies in the Thüringen region] Tischendorf M, et al. **Z Gesamte Hyg** 1990 Jun;36(6):328–31 (Eng. Abstr.) (Ger)

[Quartz crystals in the skin as a cause of progressive systemic scleroderma] Mehlhorn J, et al. **Z Gesamte Inn Med** 1990 Mar 15;45(6):149–54 (Eng. Abstr.) (Ger)

[Antinuclear antibodies as early diagnostic criteria of developing collagen disease in quartz dust exposure—a case report] Mehlhorn J, et al. **Z Gesamte Inn Med** 1990 Mar 1;45(3):68–71 (Eng. Abstr.) (Ger)

[Comparative studies of the effect of quartz glass and quartz DQ–12 in inhalation tests in rats] Rosenbruch M, et al. **Zentralbl Hyg Umweltmed** 1990 Apr;189(5):419–40 (Eng. Abstr.) (Ger)

[Occupational asthma caused by inhalation of cuttlefish bone dust] Beltrami V, et al. **Med Lav** 1989 Sep–Oct;80(5):425–8 (Eng. Abstr.) (Ita)

[A case of bromocriptine–induced interstitial pneumonitis in an iron factory worker exposed to sand dust] Itoh H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Oct; 27(10):1221–5 (Eng. Abstr.) (Jpn)

[Role of fungi in house dust allergy in patients with bronchial asthma] Kosiński SW, et al. **Pneumonol Pol** 1989 Jun; 57(6):351–6 (Eng. Abstr.) (Pol)

[Condition of the oral mucosa in cement plant workers] Strużak–Wysokińska M, et al. **Wiad Lek** 1989 May 15; 42(10):641–4 (Eng. Abstr.) (Pol)

[The mutagenic action of the dust of natural zeolites and chrysotile asbestos] Durnev AD, et al. **Eksp Onkol** 1990; 12(2):21–4 (Eng. Abstr.) (Rus)

[The solubility of welding dusts and their cytotoxicity] Gorban' LN, et al. **Gig Tr Prof Zabol** 1989;(12):30–4 (Eng. Abstr.) (Rus)

[Morphological changes in the nasal mucosa of workers in occupations exposed to dust] Loshchilov IuA, et al. **Gig Tr Prof Zabol** 1989;(12):17–9 (Eng. Abstr.) (Rus)

[Comparison of the effects of organic dusts on respiratory organs of rats using a morphometric method] Tacheva Ia, et al. **Gig Tr Prof Zabol** 1990;(6):10–2 (Eng. Abstr.) (Rus)

[Comparative characteristics of the biological aggressiveness of welding dusts] Velichkovskiĭ BT, et al. **Gig Tr Prof Zabol** 1990;(6):12–5 (Eng. Abstr.) (Rus)

[The results of the combined treatment of patients with dust–induced bronchitis] Tolmach DV, et al. **Vrach Delo** 1990 Jun;(6):42–4 (Eng. Abstr.) (Rus)

[Ventilatory function of the lungs in Brač stone cutters] Pavlović M, et al. **Arh Hig Rada Toksikol** 1989 Dec; 40(4):383–7 (Eng. Abstr.) (Scr)

[Chronic obstructive lung diseases due to organic dust exposure] Zuškin E, et al. **Arh Hig Rada Toksikol** 1989 Dec;40(4):375–8 (Eng. Abstr.) (Scr)

[Allergic rhinitis: evaluation of the sensitivity to allergens] Pumares Mateo AM, et al. **Acta Otorrinolaringol Esp** 1989 Jan–Feb;40(1):29–31 (Eng. Abstr.) (Spa)

[Frequent problems and acutely affected lungs in dock workers unloading grain] Ahman M, et al. **Lakartidningen** 1990 Mar 14;87(11):835–6 (Swe)

[Wood dust as an occupational problem among woodwork teachers] Flodmark BT, et al. **Lakartidningen** 1990 Jul 25; 87(30–31):2425–6 (Swe)

ANALYSIS

Dust from carpeted and smooth floors. II. Antigenic and allergenic content of dust vacuumed from carpeted and smooth floors in schools under routine cleaning schedules. Dybendal T, et al. **Allergy** 1989 Aug;44(6):401–11

ELISA inhibition method in detection of mite and chironomid antigens in environmental samples of dust, soil and air. Kimura JY, et al. **Allergy** 1990 Apr;45(3):167–73

Concentrations of specific dusts in swineries and the humoral response of swinery workers. Virtanen T, et al. **Allergy** 1990 Jul;45(5):354–62

The application of dustiness tests to the prediction of worker dust exposure. Heitbrink WA, et al. **Am Ind Hyg Assoc J** 1990 Apr;51(4):217–23

Factors affecting the Heubach and MRI dustiness tests. Heitbrink WA. **Am Ind Hyg Assoc J** 1990 Apr;51(4):210–6

Assessment of respiratory exposures during gilsonite mining and milling operations. Kullman GJ, et al. **Am Ind Hyg Assoc J** 1989 Aug;50(8):413–8

Improved sampling and recovery of wood dust using MSA respirable dust cassettes. Moore LL, et al.

Am Ind Hyg Assoc J 1990 Jul;51(7):A475–6
Design of Stairmand-type sampling cyclones. Moore ME, et al. Am Ind Hyg Assoc J 1990 Mar;51(3):151–9
Sampling and interpretation errors in aerosol monitoring. Willeke K, et al. Am Ind Hyg Assoc J 1990 Mar;51(3):160–8
Mutagenicity and PAH content of airborn particulates and of fallen dusts from two Hungarian towns and emission samples from aluminum reduction and power plants. Török G, et al. Ann Ist Super Sanita 1989;25(4):595–9
Fibres in Lower Silesia hard coal mines respirable dusts. Adamus J, et al. Ann Occup Hyg 1990 Feb;34(1):91–5
The application of performance standards to personal airborne dust samplers. Kenny LC, et al. Ann Occup Hyg 1989;33(3):289–300
Characterization of airborne dust in a soft paper mill. Sahle W, et al. Ann Occup Hyg 1990 Feb;34(1):55–75
Clay occlusion of respirable quartz particles detected by low voltage scanning electron microscopy–X-ray analysis. Wallace WE, et al. Ann Occup Hyg 1990 Apr;34(2):195–204
Airborne fibre levels associated with the use of MMMF brazing mats during welding operations. Waterman LS, et al. Ann Occup Hyg 1990 Feb;34(1):97–9
Comparison of the limulus amebocyte lysate test and gas chromatography–mass spectrometry for measuring lipopolysaccharides (endotoxins) in airborne dust from poultry-processing industries. Sonesson A, et al. Appl Environ Microbiol 1990 May;56(5):1271–8
Respirable dust exposures in U.S. surface coal mines (1982–1986). Piacitelli GM, et al. Arch Environ Health 1990 Jul–Aug;45(4):202–9
Prevention of summer-type hypersensitivity pneumonitis: effect of elimination of Trichosporon cutaneum from the patients' homes. Yoshida K, et al. Arch Environ Health 1989 Sep–Oct;44(5):317–22
Lead concentration in Hong Kong roadside dust after reduction of lead level in petrol. Chan GY, et al. Biomed Environ Sci 1989 Jun;2(2):131–40
Inflammatory potential of grain dust [published erratum appears in Biomed Environ Sci 1989 Jun;2(2):174] Ye TT, et al. Biomed Environ Sci 1988 Jun;1(1):115–24
Air hygiene in a pullet house: spatial homogeneity of aerial pollutants. Conceição MA, et al. Br Poult Sci 1989 Dec; 30(4):765–76
Pilot study of a cotton glove press test for assessing exposure to pesticides in house dust. Roberts JW, et al. Bull Environ Contam Toxicol 1989 Nov;43(5):717–24
Depression of alveolar macrophage hydrogen peroxide and superoxide anion release by mineral dusts: correlation with antimony, lead, and arsenic contents. Gulyas H, et al. Environ Res 1990 Apr;51(2):218–29
Isolation of concanavalin A–reactive low-molecular weight allergen from house dust. Mitra I, et al. Indian J Biochem Biophys 1990 Feb;27(1):28–32
A field intercomparison and fundamental characterization of various dust samplers with a reference sampler. Holländer W, et al. J Air Waste Manage Assoc 1990 Jun;40(6):881–6
Identification and partial characterization of the soybean-dust allergens involved in the Barcelona asthma epidemic. Rodrigo MJ, et al. J Allergy Clin Immunol 1990 Apr;85(4):778–84
Characterization of exposure to molds and actinomycetes in agricultural dusts by scanning electron microscopy, fluorescence microscopy and the culture method. Karlsson K, et al. Scand J Work Environ Health 1989 Oct;15(5):353–9
Effects of different extraction protocols on endotoxin analyses of airborne grain dusts. Olenchock SA, et al. Scand J Work Environ Health 1989 Dec;15(6):430–5
The environmental half-lives and mean residence times of contaminants in dust for an urban environment: Barrow-in-Furness. Allott RW, et al. Sci Total Environ 1990 Apr;93:403–10
The effect of Pb reduction in petrol on the Pb content of kerbside dust in Hong Kong. Ho YB. Sci Total Environ 1990 Apr;93:411–8
House dust mites in Williamsburg, Virginia. Lassiter MT, et al. Va Med 1990 Apr;117(4):152–7
[Dust deposition and elimination in the lung of rats inhaling coal and coalstone dusts] Li CY. Chung Hua Yu Fang I Hsueh Tsa Chih 1989 Nov; 23(6):323–5 (Eng. Abstr.) (Chi)
[Tool for the study of household allergens] Pauli G, et al. Presse Med 1989 Dec 9;18(41):2015–7 (Eng. Abstr.) (Fre)
[Seasonal variations in house dust mite allergens—significance for children with allergy] Lau S, et al. Monatsschr Kinderheilkd 1990 Feb;138(2):58–61 (Eng. Abstr.) (Ger)
[Dust deposits in lung tumors—cause and significance] Fisseler-Eckhoff A, et al. Pneumologie 1990 Feb;44 Suppl 1:325–6 (Eng. Abstr.) (Ger)
[Roentgen microanalysis of dust particles in histologic sections of pneumoconiosis] Loos U, et al. Pneumologie 1990 Feb;44 Suppl 1:252–3 (Eng. Abstr.) (Ger)
[Error possibilities in the analysis of sedimentation dust] Börtitz S, et al. Z Gesamte Hyg 1990 Mar;36(3):141–2 (Eng. Abstr.) (Ger)
[Measurement of particle size using a cascade impactor] Dyrba BC. Z Gesamte Hyg 1990 May;36(5):275–8 (Eng. Abstr.) (Ger)
[Occupational hygiene control of dust conditions in the working place using a 3-step dust measuring device] Vékény H. Z Gesamte Hyg 1990 May;36(5):273–5 (Eng. Abstr.) (Ger)
[Evaluation of the significance of the body uptake of natural radionuclides with manufacturing dust at industrial enterprises] Lisachenko EP, et al. Gig Tr Prof Zabol 1989; (10):51–2 (Rus)
[Characteristics of the dust factor in the manufacture of artificial mineral fiber substances (silicon carbide)] Sharshenova AA. Gig Tr Prof Zabol 1989;(10):52–4 (Rus)

PREVENTION & CONTROL

Contamination of a soft-drink manufacturing plant by 210Po. Wallace JD, et al. Health Phys 1990 Apr;58(4):469–75
Air filtration: protection against respirable dust. Brown RC. Sci Prog 1989;73(291 Pt 3):413–28

DWARFISM

Dubowitz syndrome: atopic dermatitis, low birth weight dwarfism and facial dysmorphism. Vieluf D, et al. Dermatologica 1990;180(4):247–9
Aarskog syndrome. A case report. Dayal PK, et al. Oral Surg Oral Med Oral Pathol 1990 Mar;69(3):403–5

BLOOD

Serum GH binding protein activities identifies the heterozygous carriers for Laron type dwarfism. Laron Z, et al. Acta Endocrinol (Copenh) 1989 Oct;121(4):603–8

COMPLICATIONS

Report of a case: acromesomelic dysplasia: radiologic, clinical, and pathological study. Fernández del Moral R, et al. Am J Med Genet 1989 Jul;33(3):415–9
Kabuki makeup syndrome (Niikawa-Kuroki syndrome) in a black child. PeBenito R, et al. Ann Ophthalmol 1989 Aug; 21(8):312–5
Robinow syndrome: report of two patients with cystic kidney disease. Wiens L, et al. Clin Genet 1990 Jun;37(6):481–4
Lower-extremity abnormalities in dwarfing conditions. Bassett GS. Instr Course Lect 1990;39:389–97 (11 ref.)
Spinal deformity in short-stature syndromes. Tolo VT. Instr Course Lect 1990;39:399–405 (17 ref.)
"New" syndrome with telangiectasia, dwarfism, and spondyloepiphyseal dysplasia may be Rothmund–Thomson syndrome [letter] Moss C. Pediatr Dermatol 1990 Mar; 7(1):82–4
Paraplegia resulting from thoracolumbar stenosis in a seven-month-old achondroplastic dwarf. Hahn YS, et al. Pediatr Neurosci 1989;15(1):39–43
Ossification of the posterior longitudinal ligament and thoracic myelopathy in a short-limbed dwarf. Gabuzda GM, et al. Spine 1989 Dec;14(12):1410–2

DIAGNOSIS

An unusual cardiomelic syndrome [letter; comment] Bowen P. Am J Med Genet 1990 Jan;35(1):139–40 Comment on: Am J Med Genet 1988 Feb;29(2):333–41.
Boomerang dysplasia. Winship I, et al. Am J Med Genet 1990 Aug;36(4):440–3 (4 ref.)
Kyphomelic dysplasia: the first 10 cases. Turnpenny PD, et al. J Med Genet 1990 Apr;27(4):269–72
Indian preschool children—a profile of stunting and wasting. Sastry JG, et al. J Trop Pediatr 1989 Oct;35(5):237–40
Robinow's syndrome: prenatal diagnosis. Loverro G, et al. Prenat Diagn 1990 Feb;10(2):121–6
Prenatal sonographic evaluation of short-limbed dwarfism: an algorithmic approach. Spirt BA, et al. Radiographics 1990 Mar;10(2):217–36 (15 ref.)
[Prenatal diagnosis of diastrophic dwarfism syndrome] Veropotvelian NP, et al. Pediatriia 1990;(2):85–9 (Rus)

DRUG THERAPY

[Evaluation of the treatment with clonidine of short stature in children] Casanova Bellido M, et al. An Esp Pediatr 1989 Sep;31(3):233–9 (Eng. Abstr.) (Spa)
[Growth hormone treatment of short stature benefits the child from the psychological point of view] Albertsson-Wikland K, et al. Lakartidningen 1990 Apr 25; 87(17):1495–9 (Swe)

ENZYMOLOGY

The episodic secretory pattern of growth hormone regulates liver carbonic anhydrase III. Studies in normal and mutant growth-hormone-deficient dwarf rats. Jeffery S, et al. Biochem J 1990 Feb 15;266(1):69–74
A presumed DNA helicase encoded by ERCC-3 is involved in the human repair disorders xeroderma pigmentosum and Cockayne's syndrome. Weeda G, et al. Cell 1990 Aug 24; 62(4):777–91

ETIOLOGY

[Iatrogenic Cushing syndrome in infants. Report of a case with dwarfism] Petrus M, et al. Ann Pediatr (Paris) 1990 Jan;37(1):48–50 (Eng. Abstr.) (Fre)
[Forms of fetal dwarfism—attempt at prenatal differential diagnosis] Wisser J, et al. Gynakol Rundsch 1989;29 Suppl 2:268–9 (Ger)
[Causes and diagnosis of short stature] Blümel P, et al. Wien Med Wochenschr 1989 Sep 30;139(18):427–8 (Ger)
[Dwarfism in geriatrics] Falck I. Z Gerontol 1989 Jul–Aug; 22(4):196–9 (Eng. Abstr.) (Ger)
[A case of recessive dystrophic epidermolysis bullosa associated with dwarfism with special reference to pathophysiological role of growth hormone] Nakamura F, et al. Nippon Naibunpi Gakkai Zasshi 1990 Feb 20; 66(2):94–100 (Eng. Abstr.) (Jpn)

GENETICS

Acromesomelic dysplasia in a father and son: autosomal dominant inheritance. Ohba K, et al. Acta Paediatr Jpn Overseas Ed 1989 Oct;31(5):595–9
Re-evaluation of new X-linked syndrome for evidence of CHARGE syndrome or association. Abruzzo MA, et al. Am J Med Genet 1989 Nov;34(3):397–400
New type of autosomal recessive short-limb dwarfism with absent fibulae, exceptionally short digits, and normal intelligence. Kohn G, et al. Am J Med Genet 1989 Dec; 34(4):535–40
A new syndrome of dwarfism, brachydactyly, nail dysplasia, and mental retardation in sibs. Tonoki H, et al. Am J Med Genet 1990 May;36(1):89–93
Molecular mechanism of growth hormone (GH) deficiency in the spontaneous dwarf rat: detection of abnormal splicing of GH messenger ribonucleic acid by the polymerase chain reaction. Takeuchi T, et al. Endocrinology 1990 Jan; 126(1):31–8
Clinical and biochemical studies in three patients with severe early infantile Cockayne syndrome. Jacken J, et al. Hum Genet 1989 Nov;83(4):339–46
Glycine to serine substitution in the triple helical domain of pro-alpha 1 (II) collagen results in a lethal perinatal form of short-limbed dwarfism. Vissing H, et al. J Biol Chem 1989 Nov 5;264(31):18265–7
3M dwarfism: a study of two further sibs. Feldmann M, et al. J Med Genet 1989 Sep;26(9):583–5
Influence of the sex-linked dwarfing gene (dw) on the lipid composition of plasma, egg yolk and abdominal fat pad in White Leghorn laying hens: effect of dietary fat. Burghelle-Mayeur C, et al. J Nutr 1989 Oct;119(10):1361–8 (42 ref.)
Growth hormone-receptor gene in Laron dwarfism [letter; comment] Bass S, et al. N Engl J Med 1990 Mar 22; 322(12):854–5 Comment on: N Engl J Med 1989 Oct 12;321(15):989–95.
Characterization of the human growth hormone receptor gene and demonstration of a partial gene deletion in two patients with Laron-type dwarfism. Godowski PJ, et al. Proc Natl Acad Sci U S A 1989 Oct;86(20):8083–7
The genetic defect in Cockayne syndrome is associated with a defect in repair of UV-induced DNA damage in transcriptionally active DNA. Venema J, et al. Proc Natl Acad Sci U S A 1990 Jun;87(12):4707–11
Mini-mouse: disruption of the pygmy locus in a transgenic insertional mutant. Xiang X, et al. Science 1990 Feb 23; 247(4945):967–9
The growth hormone receptor gene in the African pygmy. Merimee TJ, et al. Trans Assoc Am Physicians 1989; 102:163–9
[Sublethal microcephalic chondrodysplasia. Taybi–Linder syndrome, primordial microcephalic nanism types I and III] Maroteaux P, et al. Arch Fr Pediatr 1990 Feb; 47(2):103–6 (Eng. Abstr.) (Fre)
[2 cases of Robinow's syndrome with mental retardation] Baxová A, et al. Cesk Pediatr 1989 Sep;44(9):543–6 (Eng. Abstr.) (Slo)
[Acromesomelic dysplasia. Report of case] Iriondo Sanz M, et al. An Esp Pediatr 1990 Feb;32(2):167–70 (Spa)

IMMUNOLOGY

Immune function, mutant frequency, and cancer risk in the DNA repair defective genodermatoses xeroderma pigmentosum, Cockayne's syndrome, and trichothiodystrophy. Norris PG, et al. J Invest Dermatol 1990 Jan;94(1):94–100

METABOLISM

Mineralocorticoid excess in two brothers with dwarfism, hypokalaemic alkalosis and normal blood pressure. Visser HK, et al. Acta Endocrinol (Copenh) 1967 Aug;55(4):661–72
Plasma concentrations of insulin like growth factors (IGF-)I and IGF-II in dwarf and normal chickens of high and low weight selected lines. Scanes CG, et al. Growth Dev Aging 1989 Winter;53(4):151–7
Insulin-like growth factor secretion by human B-lymphocytes: a comparison of cells from normal and pygmy subjects. Merimee TJ, et al. J Clin Endocrinol Metab 1989 Nov;69(5):978–84

PATHOLOGY

CAMFAK syndrome: a demyelinating inherited disease similar to Cockayne syndrome. Talwar D, et al. Am J Med Genet 1989 Oct;34(2):194–8
Mental retardation syndrome with renal concentration deficiency and intracerebral calcification. Schofer O, et al. Eur J Pediatr 1990 Apr;149(7):470–4
Metatropic dwarfism. Kapoor R, et al. Indian Pediatr 1989 Nov;26(11):1154–6
Effect of prolactin replacement on the number of tyrosine hydroxylase expressing neurons in the arcuate nuclei of

Ames dwarf and normal mice. Morgan WW, et al. **Neuroendocrinology** 1990 Jul;52(1):70–4

PHYSIOPATHOLOGY

Thyroid function in sex-linked and autosomal dwarf chickens. Lam SK, et al. **Gen Comp Endocrinol** 1989 Nov; 76(2):200–4

Impaired peripheral T3 production but normal induced thyroid hormone secretion in the sex-linked dwarf chick embryo. Kühn ER, et al. **Reprod Nutr Dev** 1990; 30(2):193–201

PSYCHOLOGY

Ambiguity and difference: families with dwarf children. Ablon J. **Soc Sci Med** 1990;30(8):879–87

RADIOGRAPHY

[Kniest's dysplasia] Tscherninkov S, et al. **Radiol Diagn (Berl)** 1990;31(3):267–71 (Eng. Abstr.) (Ger)

VETERINARY

Influence of the sex-linked dwarfing gene (dw) on the contribution of dietary lipid to yolk lipid synthesis. Burghelle-Mayeur C, et al. **Br Poult Sci** 1990 Mar; 31(1):197–206

Effect of the sex-linked dwarf gene on circulating levels of 17 beta-estradiol, progesterone and luteinising hormone in the laying hen. Tixier-Boichard M, et al. **Br Poult Sci** 1990 Jun;31(2):385–97

Induction of pregnancy-associated murine protein-1 in dwarf mice by human growth hormone. Hau J, et al. **Lab Anim** 1990 Apr;24(2):183–6

A decreased capacity of hepatic growth hormone (GH) receptors and failure of thyrotrophin-releasing hormone to stimulate the peripheral conversion of thyroxine into triiodothyronine in sex-linked dwarf broiler hens. Kühn ER, et al. **Reprod Nutr Dev** 1989;29(4):461–7

DWARFISM, PITUITARY

BLOOD

Effect of oral clonidine, insulin-induced hypoglycemia and exercise on plasma GHRH levels in short-stature children. Gil-Ad I, et al. **Acta Endocrinol (Copenh)** 1990 Jan; 122(1):89–95

A specific radioimmunoassay for the growth hormone (GH)-dependent somatomedin-binding protein: its use for diagnosis of GH deficiency. Blum WF, et al. **J Clin Endocrinol Metab** 1990 May;70(5):1292–8

Hypocortisolemia in children undergoing evaluation for growth hormone deficiency. Chalew SA, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):952–7

[Nocturnal growth hormone secretion in children with constitutional and acquired developmental delay] Butenandt O. **Monatsschr Kinderheilkd** 1990 Apr; 138(4):198–201 (Eng. Abstr.) (Ger)

COMPLICATIONS

Twenty-four-hour plasma growth hormone (GH) profiles, urinary GH excretion, and plasma insulin-like growth factor-I and -II levels in prepubertal children with chronic renal insufficiency and severe growth retardation. Hokken-Koelega AC, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):688–95

DIAGNOSIS

Diagnostic limitations of spontaneous growth hormone measurements in normally growing prepubertal children. Lanes R. **Am J Dis Child** 1989 Nov;143(11):1284–6

Perinatal abnormalities and subhypothalamic bright spot on magnetic resonance imaging in pituitary dwarfs [letter] Okabe Y, et al. **Am J Dis Child** 1989 Dec;143(12):1394

Hypothalamic-pituitary dwarfism: comparison between MR imaging and CT findings. Maghnie M, et al. **Pediatr Radiol** 1990;20(4):229–35

DRUG THERAPY

Isolated human growth hormone deficiency due to the hGH-I gene deletion with (type IA) and without (the Israeli-type) hGH antibody formation during hGH therapy. Nishi Y, et al. **Acta Endocrinol (Copenh)** 1990 Feb; 122(2):267–71

Growth retardation. Impaired height velocity [editorial] Penny R. **Am J Dis Child** 1989 Nov;143(11):1269–70

Evening versus morning injections of growth hormone (GH) in GH-deficient patients: effects on 24-hour patterns of circulating hormones and metabolites. Jørgensen JO, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):207–14

Atenolol enhances nocturnal growth hormone (GH) release in GH-deficient children during long term GH-releasing hormone therapy. Martha PM Jr, et al. **J Clin Endocrinol Metab** 1990 Jan;70(1):56–61

[New perspectives on the treatment of growth hormone deficiency] Petecca C, et al. **Minerva Pediatr** 1989 Jun; 41(6):285–90 (29 ref.) (Eng. Abstr.) (Ita)

[Clinical significance of anti-hGH antibody analysis] Takano K. **Nippon Rinsho** 1990 Feb;48 Suppl:861–3 (Jpn)

[Results of the treatment of somatotropin-deficient dwarfism in children with Somatohorm (Biomed) and Crescormon (Kabi-Vitrum)] Rybakowa M, et al. **Folia Med Cracov** 1988;29(3–4):121–6 (Eng. Abstr.) (Pol)

[Clinical experience with the treatment of dwarfism caused by growth hormone deficiency using biosynthetic somatotropin (Somatonorm)] Dorantes-Alvarez L, et al. **Bol Med Hosp Infant Mex** 1989 Aug;46(8):531–6 (Eng. Abstr.) (Spa)

ETIOLOGY

Effect of estrogens on gonadotropins and growth hormone secretion in Turner's syndrome and pure gonadal dysgenesis. Zarzycki J, et al. **Endokrynol Pol** 1989; 40(5):235–9

Endocrinological disorders in shunted hydrocephalus. Kaiser G, et al. **Z Kinderchir** 1989 Dec;44 Suppl 1:16–7

GENETICS

Low prevalence of insulin-like growth factor-I gene mutations in human growth disorders. Lajara R, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):687–92

Isolated growth hormone deficiency: analysis of the growth hormone (GH)-releasing hormone gene and the GH gene cluster. Mullis P, et al. **J Clin Endocrinol Metab** 1990 Jan; 70(1):187–91

METABOLISM

T-lymphoblast cell lines from Laron dwarfs augment basal colony formation in response to extremely high concentrations of growth hormone. Geffner ME, et al. **J Clin Endocrinol Metab** 1990 Mar;70(3):810–3

PATHOLOGY

A morphometric and quantitative microradiographic study of dental tissues in the hypopituitary dwarf mouse. Postlethwaite KM, et al. **Arch Oral Biol** 1989;34(7):563–70

PHYSIOPATHOLOGY

Decrease in delta sleep in growth hormone deficiency assessed by a new power spectrum analysis. Aström C, et al. **Sleep** 1989 Dec;12(6):508–15

[Bioelectric activity of the brain in insulin-induced hypoglycemia in children with growth deficiency] Szewczyk L, et al. **Pediatr Pol** 1989 Jul;64(7):474–8 (Eng. Abstr.) (Pol)

PSYCHOLOGY

[Differential diagnosis of psychosocial dwarfism] Blunck W, et al. **Padiatr Grenzgeb** 1990;29(3):K4–6 (Eng. Abstr.) (Ger)

THERAPY

[Treatment of hypophyseal dwarfism with biosynthetic growth hormone] Blümel P, et al. **Wien Klin Wochenschr** 1989 Dec 22;101(24):861–3 (Eng. Abstr.) (Ger)

URINE

Correlation of urinary albumin and beta-2-microglobulin and growth hormone excretion in patients with diabetes mellitus and short stature. Pan FP, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):611–7

VETERINARY

Electron-microscopic study on the anterior pituitary gland of spontaneous dwarf rats. Nogami H, et al. **Cell Tissue Res** 1989 Dec;258(3):477–82

DYDROGESTERONE

PHARMACOLOGY

A prospective randomized trial of human chorionic gonadotrophin or dydrogesterone support following in-vitro fertilization and embryo transfer. Kupferminc MJ, et al. **Hum Reprod** 1990 Apr;5(3):271–3

THERAPEUTIC USE

Progesterone versus dehydrogesterone as replacement therapy in women with premature ovarian failure. Pellicer A, et al. **Hum Reprod** 1989 Oct;4(7):777–81

Carbohydrate metabolism during hormonal substitution therapy. De Cleyn K, et al. **Maturitas** 1989 Sep; 11(3):235–42

DYE DILUTION TECHNIC

Estimation of catheter delay for appearance time of dye-dilution curves. Thilenius OG, et al. **Am J Physiol** 1967 Jun;212(6):1429–34

Comparison of dye-dilution and plethysmographic blood flow measurements: an evaluation of the influence of invasive techniques on blood flow and on arterial and femoral venous substrate variables in man. Jorfeldt L, et al. **Clin Sci** 1990 Jul;79(1):81–7

Standardized measurement of amniotic fluid volume by correlation of sonography with dye dilution technique. Schiff E, et al. **Obstet Gynecol** 1990 Jul;76(1):44–6

INSTRUMENTATION

[Development of the intra-vascular dye dilution detector using optical fiber catheter] Oida A, et al. **Kokyu To Junkan** 1990 Mar;38(3):229–35 (Jpn)

STANDARDS

A dynamic method for the calibration of dye dilution curves in a physiological system. Emanuel R, et al. **Br Heart J** 1966 Mar;28(2):143–6

Use of a computer in the calibration of dye dilution curves by a dynamic method. Hamer J, et al. **Br Heart J** 1966 Mar;28(2):147–51

DYE EXCLUSION ASSAYS, ANTITUMOR see **DRUG SCREENING ASSAYS, ANTITUMOR**

DYES

see related

STAINS AND STAINING

Monomerizing effect of caffeine, o-phenanthroline, and tannin on cationic dyes: a model system to analyze spectral characteristics of the intercalative binding to nucleic acids. Stockert JC. **Acta Histochem (Jena)** 1989;87(1):33–42

An assay for heparin by decrease in color yield (DECOY) of a protein-dye-binding reaction. Khan MY, et al. **Anal Biochem** 1990 May 15;187(1):124–8

Double staining of immunoblot using enzyme histochemistry and India ink. Ono T, et al. **Anal Biochem** 1990 Jun; 187(2):324–7

Drug binding by branched DNA: selective interaction of the dye stains-all with an immobile junction. Lu M, et al. **Biochemistry** 1990 Apr 3;29(13):3407–12

Dye-stained gelatin microcarriers as insoluble chromolytic substrates for the determination of proteolytic activity. Safařík I. **Clin Chim Acta** 1990 Feb 28;187(2):149–53

Comparison of the Papanicolaou and Feulgen staining methods for DNA quantification by image analysis. Gurley AM, et al. **Cytometry** 1990;11(4):468–74

Variations in Feulgen stainability of epithelial parenchymal cells extracted from paraffin-embedded salivary gland specimens. Schimmelpenning H, et al. **Cytometry** 1990; 11(4):475–80

Mediation of 8-hydroxy-guanine formation in DNA by thiazin dyes plus light. Floyd RA, et al. **Free Radic Biol Med** 1990;8(4):327–30

Blood-red residual after cherry-flavored magnesium citrate [letter] Slimak G, et al. **Gastrointest Endosc** 1990 Jan-Feb; 36(1):79–80

Are the polarization colors of picrosirius red-stained collagen determined only by the diameter of the fibers? Dayan D, et al. **Histochemistry** 1989;93(1):27–9

Immunocytochemical detection of sulphonylated DNA in tissue sections. An alternative to Feulgen staining of DNA. Fritz P, et al. **Histochemistry** 1989;93(2):175–81

Experimental mucopolysaccharidosis: preservation and ultrastructural visualization of intralysosomal glycosaminoglycans by use of the cationic dyes cuprolinic blue and toluidine blue. Lüllmann-Rauch R. **Histochemistry** 1989;93(2):149–54

Differential marking of excision planes in screened breast lesions by organically coloured gelatins. Armstrong JS, et al. **J Clin Pathol** 1990 Jul;43(7):604–7

Deciphering bloody imprints through chemical enhancement. Doherty PE, et al. **J Forensic Sci** 1990 Mar;35(2):457–65

A nonlinear electrostatic potential change in the T-system of skeletal muscle detected under passive recording conditions using potentiometric dyes. Heiny JA, et al. **J Gen Physiol** 1990 Jan;95(1):147–75

Characterization of six textile dyes as fluorescent stains for flow cytometry. Simmons DM, et al. **J Histochem Cytochem** 1990 Jan;38(1):41–9

1-naphthol-pyronin B as a novel substrate for silver intensification: application to light and electron microscopic immunocytochemistry of neuroendocrine systems. Toni R, et al. **J Histochem Cytochem** 1990 Aug; 38(8):1209–14

Mapping of insect muscle fibres innervated by the same motoneurone by intracellular injection with cobalt dye. Theophilidis G, et al. **J Neurosci Methods** 1989 Nov; 30(2):147–9

Retroperitoneal lymph nodal visualization using 30% Guajazulen blue (chromolymphography). Harzmann R, et al. **Lymphology** 1989 Sep;22(3):147–9

Solvent systems for thin layer chromatography of biological dyes. Allison RT, et al. **Med Lab Sci** 1989 Apr;46(2):113–9

Chromatography on immobilized reactive dyes. Stellwagen E. **Methods Enzymol** 1990;182:343–57

Comparative evaluation on mouse nasal immunogenicity of arylmethane-, xanthene-, quinone-imine-, and acridine-dye-inactivated Sendai virus vaccines. Miyamae T. **Microbiol Immunol** 1990;34(4):367–75

Structural basis of the mutagenicity of 1-amino-2-naphthol-based azo dyes. Rosenkranz HS, et al. **Mutagenesis** 1990 Mar;5(2):137–46 (35 ref.)

The photosensitizers benzophenoxazine and thiazines: comprehensive investigation of photophysical and photochemical properties. Becker RS, et al. **Photochem Photobiol** 1990 May;51(5):533–8

[The decolorization and biodegrading metabolism of azo dyes by Pseudomonas S-42] Liu ZP, et al. **Wei Sheng Wu Hsueh Pao** 1989 Dec;29(6):418-26 (Eng. Abstr.) **(Chi)**

[Dye lasers: perifoveolar photocoagulation of retrofoveolar macular subretinal neovessels] Soubrane G, et al. **Bull Soc Ophtalmol Fr** 1990 Feb;90(2):165-7 **(Fre)**

[Dye lasers: experimental histopathologic study of the effects of various wavelengths on the macular region] Sterkers M, et al. **Bull Soc Ophtalmol Fr** 1990 Feb;90(2):159-63 (Eng. Abstr.) **(Fre)**

[The dye laser: experimental and clinical results in subretinal macular neovascularization] Coscas G, et al. **J Fr Ophtalmol** 1989;12(10):613-21 (Eng. Abstr.) **(Fre)**

[Dye-ligand affinity chromatography—simple preparation method of dye ligand resins and their application] Ohshima T, et al. **Seikagaku** 1990 Apr;62(4):283-7 **(Jpn)**

ADMINISTRATION & DOSAGE

Ultrasonically guided biopsy of nonpalpable lesions of the breast by the spot method. Ueno E, et al. **Surg Gynecol Obstet** 1990 Feb;170(2):153-5

ADVERSE EFFECTS

Colourings and preservatives in drugs [letter; comment] Wells F. **BMJ** 1989 Oct 28;299(6707):1099 Comment on: BMJ 1989 Sep 9;299(6700):649-51.

Allergic reaction to the food dye patent blue [letter] Chadwick BL, et al. **Br Dent J** 1990 May 19;168(10):386-7

Coarse fishing and urothelial cancer: a regional case-control study. Sorahan T, et al. **Br J Cancer** 1990 Jul;62(1):138-41

Studies on the relation between bladder cancer and benzidine or its derived dyes in Shanghai. You XY, et al. **Br J Ind Med** 1990 Aug;47(8):544-52

Serious adverse reaction to patent blue violet at lymphography. Barber CJ. **Clin Radiol** 1989 Nov;40(6):631

Allergy to dyes in permanent-press bed linen. Brown R. **Contact Dermatitis** 1990 May;22(5):303-4

Persistent patch test reactions to textile dyes. Patrizi A, et al. **Contact Dermatitis** 1990 Jul;23(1):60-1

Contact dermatitis from Naphthol AS. Roed-Petersen J, et al. **Contact Dermatitis** 1990 Mar;22(3):161-3

Occupational dermatitis from Synacril Red 3b liquid (CI Basic Red 22). Sadhra S, et al. **Contact Dermatitis** 1989 Nov;21(5):316-20

Effects of textile dye stuff effluent on food utilization of Cyprinus carpio (Linn.). Sakthivel M, et al. **Indian J Exp Biol** 1989 Dec;27(12):1032-4

An optimized assay of specific IgE antibodies to reactive dyes and studies of immunologic responses in exposed workers. Wass U, et al. **J Allergy Clin Immunol** 1990 Mar; 85(3):642-8

Retattooing after the treatment of a red tattoo reaction with the CO2 laser [letter] Brodell RT. **J Dermatol Surg Oncol** 1990 Aug;16(8):771

Respiratory allergy and specific immunoglobin E and immunoglobin G antibodies to reactive dyes used in the wool industry. Topping MD, et al. **J Occup Med** 1989 Oct; 31(10):857-62

Occupational asthma and IgE antibodies to reactive dyes. Park HS, et al. **Yonsei Med J** 1989 Sep;30(3):298-304

[Determining the occupational risk of skin diseases at the chemical plant "G. Genov" in Ruse] Madzhunov N, et al. **Probl Khig** 1989;14:173-8 (Eng. Abstr.) **(Bul)**

[Animal experiment studies of the biocompatibility of colored and plain lens haptics of polymethylmethacrylate] Imkamp E, et al. **Fortschr Ophthalmol** 1990;87(1):95-8 (Eng. Abstr.) **(Ger)**

[Low significance of determining total urine aromatic amines in individuals exposed to azo-dyes (letter)] Dubini M. **Med Lav** 1990 Jan-Feb;81(1):75-6 **(Ita)**

[Benzidine dyes and risk of bladder cancer] Miyakawa M, et al. **Hinyokika Kiyo** 1989 Dec;35(12):2049-56 (Eng. Abstr.) **(Jpn)**

[Vitamin status of workers exposed to amine and nitro compounds of benzene and the possibilities of its correction] Perevalov AIa, et al. **Gig Sanit** 1990 Mar; (3):32-4 **(Rus)**

[Mutagenicity, genotoxicity and carcinogenicity of ZM anion brown dye] Kulagina TF, et al. **Gig Tr Prof Zabol** 1990; (3):26-8 **(Rus)**

ANALYSIS

Survey of colourings and preservatives in drugs [see comments] Pollock I, et al. **BMJ** 1989 Sep 9; 299(6700):649-51 Comment in: BMJ 1989 Oct 28;299(6707):1099.

Biodegradation of azo dyes in multistage rotating biological contactor immobilized by assimilating bacteria. Ogawa T, et al. **Bull Environ Contam Toxicol** 1990 Apr;44(4):561-6

Evidence against the existence of acetylated Sudan Black B. Lauder RM, et al. **Histochemistry** 1989;93(2):213-6

Analysis of xanthene dyes by reversed-phase high-performance liquid chromatography on a polymeric column followed by characterization with a diode array detector. Van Liedekerke BM, et al. **J Chromatogr** 1990 Jun 8;528(1):155-62

Incorporation of dyes into low density lipoprotein in the presence of non-ionic surfactants. Eley JG, et al. **J Pharm Pharmacol** 1989 Dec;41(12):858-60

An exotic tale of shellfish, antiquity and prayer shawls. Tyrian and hyacinth purples [letter; comment] Ziderman II. **Trends Pharmacol Sci** 1990 Feb;11(2):60 Comment on: Trends Pharmacol Sci 1989 Feb;10(2):60-3.

[Analysis of toys: 1. Lead, cadmium and barium migration. 2. Migration of coloring agents in artificial saliva] Iliano B, et al. **Arch Belg** 1988;46(7-8):336-46 (Eng. Abstr.) **(Dut)**

[Hygienic evaluation of pollution of reservoir water by dyes from dye-processing plants of the textile industry] Dmitriev MT, et al. **Gig Sanit** 1990 May;(5):91-2 **(Rus)**

CHEMICAL SYNTHESIS

Chalcogenapyrylium dyes as photochemotherapeutic agents. 2. Tumor uptake, mitochondrial targeting, and singlet-oxygen-induced inhibition of cytochrome c oxidase. Detty MR, et al. **J Med Chem** 1990 Apr; 33(4):1108-16

DIAGNOSTIC USE

The use of a caries detector dye in cavity preparation. Kidd EA, et al. **Br Dent J** 1989 Aug 19;167(4):132-4

A simple dye-coupling assay for evaluating gap junctional communication: the importance of transcription and translation on the establishment of dye-coupling. Zidell RH, et al. **Cell Biol Int Rep** 1990 Jul;14(7):613-28

Role of Lugol dye endoscopy in the diagnosis of early esophageal cancer. Misumi A, et al. **Endoscopy** 1990 Jan; 22(1):12-6

Sudan stain and quantitative fecal fat [letter; comment] Simko V. **Gastroenterology** 1990 Jun;98(6):1722-3 Comment on: Gastroenterology 1989 Feb;96(2 Pt 1):421-7.

Triphenyl tetrazolium chloride (TTC) dye test for quick diagnosis of urinary tract infection. Wagle N, et al. **Indian J Pediatr** 1989 Sep-Oct;56(5):635-8

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. reactive blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins. Burton SJ, et al. **J Chromatogr** 1990 May 25; 508(1):109-25

MTT colorimetric assay for testing macrophage cytotoxic activity in vitro. Ferrari M, et al. **J Immunol Methods** 1990 Aug 7;131(2):165-72

Sirius red histophotometry and spectrophotometry of sections in the assessment of the collagen content of liver tissue and its application in growing rat liver. James J, et al. **Liver** 1990 Feb;10(1):1-5

Topography of human aortic sudanophilic lesions. Cornhill JF, et al. **Monogr Atheroscler** 1990;15:13-9

High resolution photochromic dye method for pulsatile flow studies. Ojha M, et al. **Monogr Atheroscler** 1990;15:91-5

Dye and electrical coupling of endothelial cells in situ. Bény JL, et al. **Tissue Cell** 1989;21(6):797-802

[Evaluation of the absorptive and excretory functions of the liver in middle-aged and elderly patients with peritonitis] Karimov ShI, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):92-5 **(Rus)**

[Chromoscopy in the diagnosis of gastric cancer] Aparcero M. **GEN** 1989 Apr-Jun;43(2):120-3 (Eng. Abstr.) **(Spa)**

METABOLISM

Biodegradation of azo and heterocyclic dyes by Phanerochaete chrysosporium. Cripps C, et al. **Appl Environ Microbiol** 1990 Apr;56(4):1114-8

Interaction of bacterial glucose-6-phosphate dehydrogenase with triazine dyes: a study by means of affinity partitioning and kinetic analysis. Reuter R, et al. **Biomed Biochim Acta** 1990;49(4):151-60

Interaction of lactate dehydrogenase with structurally related triazine dyes using affinity partitioning and affinity chromatography. Kirchberger J, et al. **J Chromatogr** 1989 Dec 8;483:289-99

In vitro selection of RNA molecules that bind specific ligands. Ellington AD, et al. **Nature** 1990 Aug 30; 346(6287):818-22

Photoreactions of macrocyclic dyes bound to human serum albumin. Davila J, et al. **Photochem Photobiol** 1990 Jan; 51(1):9-19

Species comparisons regarding comparative metabolism of two structurally similar phenylenediamines (HC Blue 1 and HC Blue 2). Kari F, et al. **Prog Clin Biol Res** 1990; 340D:305-14

PHARMACOKINETICS

The correlation between uptake of methyl green and Feulgen staining intensity of cell nuclei. An image analysis study. Lyon H, et al. **Histochem J** 1989 Aug;21(8):508-13

PHARMACOLOGY

Inactivation of DNA polymerase 1, alpha-amylase and protease by basic dyes and inhibition of microbial growth. Ogawa T, et al. **Bull Environ Contam Toxicol** 1990 Jul; 45(1):107-12

Gastrulation in the sea urchin Strongylocentrotus purpuratus is blocked by the fluorescein dye erythrosin B. Carroll EJ Jr. **Mol Reprod Dev** 1990 Jan;25(1):67-71

Limited effectiveness of triple dye in preventing colonization with methicillin-resistant Staphylococcus aureus in a special care nursery. Rosenfeld CR, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):290-1

Structure activity analysis of azo dyes and related compounds. Claxton LD, et al. **Prog Clin Biol Res** 1990; 340B:11-22

Cytotoxicity, radiosensitization, and DNA interaction of platinum complexes of thiazin and xanthene dyes. Teicher BA, et al. **Radiat Res** 1990 Feb;121(2):187-95

[Formation of free radicals and DNA breaks after pulsed laser irradiation of DNA complexes with intercalating dyes] Zhizhina GP, et al. **Biofizika** 1990 Jan-Feb; 35(1):47-52 (Eng. Abstr.) **(Rus)**

[Changes in the components of the hydroxylase system of the liver microsomes as a criterion in the assessment of the effects of vat dyes and azo compounds] Pashchenko EA, et al. **Gig Tr Prof Zabol** 1990;(5):52-4 **(Rus)**

TOXICITY

ras gene activation in rat tumors induced by benzidine congeners and derived dyes. Reynolds SH, et al. **Cancer Res** 1990 Jan 15;50(2):266-72

14-day and 90-day toxicity studies of C.I. Pigment Red 3 in Fischer 344 rats and B6C3F1 mice. Morgan DL, et al. **Food Chem Toxicol** 1989 Dec;27(12):793-800

Some flame retardants and textile chemicals, and exposures in the textile manufacturing industry. **IARC Monogr Eval Carcinog Risks Hum** 1990;48:1-278

para-Chloro-ortho-toluidine and its strong acid salts. **IARC Monogr Eval Carcinog Risks Hum** 1990;48:123-37 (56 ref.)

Disperse Blue 1. **IARC Monogr Eval Carcinog Risks Hum** 1990;48:139-48 (19 ref.)

Disperse Yellow 3. **IARC Monogr Eval Carcinog Risks Hum** 1990;48:149-59 (38 ref.)

Vat Yellow 4. **IARC Monogr Eval Carcinog Risks Hum** 1990; 48:161-8 (18 ref.)

5-Nitro-ortho-toluidine. **IARC Monogr Eval Carcinog Risks Hum** 1990;48:169-77 (32 ref.)

Chicago sky blue and a helium neon laser abolish endothelium dependent relaxation in vivo in the microcirculation. Nishimura H, et al. **Microcirc Endothelium Lymphatics** 1989 Dec;5(6):435-40

The effect of alkoxy substituents on the mutagenicity of some aminoazobenzene dyes and their reductive-cleavage products. Esancy JF, et al. **Mutat Res** 1990 Jan;238(1):1-22 (29 ref.)

The effect of alkoxy substituents on the mutagenicity of some phenylenediamine-based disazo dyes. Esancy JF, et al. **Mutat Res** 1990 Jan;238(1):23-38 (21 ref.)

Structural basis of the mutagenicity of phenylazoaniline dyes. Rosenkranz HS, et al. **Mutat Res** 1989 Nov;221(3):217-34

Bacterial mutagenesis and hepatocyte unscheduled DNA synthesis induced by chrysoidine azo-dye components. Sandhu P, et al. **Mutat Res** 1990 Mar;240(3):227-36

The genetic toxicity of the human carcinogens benzidine and benzidine-based dyes: chromosomal analysis in exposed workers. Mirkova ET, et al. **Prog Clin Biol Res** 1990; 340C:397-405

Thirteen-week toxicity studies of 3,3'-dimethoxybenzidene and C.I. Direct Blue 15 in the Fischer 344 rat. Morgan DL, et al. **Toxicology** 1989 Dec 15;59(3):297-309

[Genotoxicity of synthetic dyes in umu test using Salmonella typhimurium TA1535/pSK1002 (1). Results of examination for acid dyes, direct dyes, disperse dyes and reactive dyes] Kosaka H, et al. **Sangyo Igaku** 1990 Mar;32(2):89-104 (Eng. Abstr.) **(Jpn)**

[Evaluation of dyed substances in purified waste water in experiments on water organisms] Novikova LN, et al. **Gig Sanit** 1989 Aug;(8):78-80 **(Rus)**

[The relation of the toxicity of copper phthalocyanines to their distribution in blood serum proteins] Balabanova EL, et al. **Gig Tr Prof Zabol** 1989;(10):54-6 **(Rus)**

[Use of metabolic and pathogenetic criteria in group standardization of organically active chlortriazine dyes] Kurliandskiĭ BA, et al. **Gig Tr Prof Zabol** 1990;(3):15-8 (Eng. Abstr.) **(Rus)**

[A toxicological hygiene study of a dye made from abattoir blood for sausage products] Lerina IV, et al. **Vopr Pitan** 1990 Jan-Feb;(1):61-4 (Eng. Abstr.) **(Rus)**

DYFONATE see under **INSECTICIDES, ORGANOTHIOPHOSPHATE**

DYNEIN see under **ADENOSINE TRIPHOSPHATASE**

DYNORPHIN

Peptide models of dynorphin A(1-17) incorporating minimally homologous substitutes for the potential amphiphilic beta strand in residues 7-15. Taylor JW. **Biochemistry** 1990 Jun 5;29(22):5364-73

ADMINISTRATION & DOSAGE

Microinjection of dynorphin into the hippocampus impairs spatial learning in rats. McDaniel KL, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):429-35

ANALOGS & DERIVATIVES

High density of zinc-containing and dynorphin B- and substance P-immunoreactive terminals in the marginal division of the rat striatum. Shu SY, et al.

Brain Res Bull 1990 Feb;24(2):201–5
Solution syntheses of two enkephalin–containing peptides, peptide E and dynorphin(1–24), using Nin–(2,4,6–triisopropylphenylsulfonyl)tryptophan.
Kitagawa K, et al. Chem Pharm Bull (Tokyo) 1989 Oct; 37(10):2631–8
Design and synthesis of highly potent and selective cyclic dynorphin A analogues. Kawasaki AM, et al.
J Med Chem 1990 Jul;33(7):1874–9
A method permitting precise trimming of resin–embedded tissue for ultrathin sectioning in pre–embedding immunoelectronmicroscopy. Valentijn JA, et al.
J Neurosci Methods 1989 Oct;30(1):55–8
Rectal absorption of E–2078 (dynorphin analogue peptide) in rats. Murahashi N, et al. **J Pharm Pharmacol** 1989 Nov; 41(11):770–4
Analgesia produced by E–2078, a systemically active dynorphin analog, in mice. Nakazawa T, et al.
J Pharmacol Exp Ther 1990 Mar;252(3):1247–54
Absorptive–mediated endocytosis of a dynorphin–like analgesic peptide, E–2078 into the blood–brain barrier. Terasaki T, et al. **J Pharmacol Exp Ther** 1989 Oct; 251(1):351–7
Diuretic profile of 66A–078, a synthetic non hydrolizable dynorphin derivative active centrally. Donoso MV, et al. **Prog Clin Biol Res** 1990;328:401–4

ANALYSIS

Opioids from immunocytes interact with receptors on sensory nerves to inhibit nociception in inflammation. Stein C, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5935–9
The immunostaining for the hypothalamic vasoactive intestinal peptide, but not for beta–endorphin, dynorphin–A or methionine–enkephalin, is affected by the glucocorticoid milieu in the rat: correlation with the prolactin secretion. Watanobe H. **Regul Pept** 1990 May 21;28(3):301–11

ANTAGONISTS & INHIBITORS

Intracerebroventricular analgesia enhanced by intrathecal (IT) dynorphin A(1–17) antibody. Fujimoto J, et al. **Prog Clin Biol Res** 1990;328:433–6

CEREBROSPINAL FLUID

An inhibitor of endopeptidase–24.15 blocks the degradation of intraventricularly administered dynorphins. Molineaux CJ, et al. **J Neurochem** 1990 Aug;55(2):611–8

CHEMICAL SYNTHESIS

Synthesis and structure–activity relationships of [MeTyr1, MeArg7]–dynorphin A(1–8)–OH analogues with substitution at position 8. Yoshino H, et al.
Chem Pharm Bull (Tokyo) 1990 Feb;38(2):404–6
Design and synthesis of highly potent and selective cyclic dynorphin A analogues. Kawasaki AM, et al.
J Med Chem 1990 Jul;33(7):1874–9

DIAGNOSTIC USE

Characterization of kappa opioid binding using dynorphin A1–13 and U69,593 in the rat brain. Devlin T, et al.
J Pharmacol Exp Ther 1990 May;253(2):749–59

GENETICS

Neuropeptide gene expression and neural activity: assessing a working hypothesis in nucleus caudalis and dorsal horn neurons expressing preproenkephalin and preprodynorphin. Uhl GR, et al. **Cell Mol Neurobiol** 1990 Mar;10(1):73–98 (190 ref.)
Expression and posttranslational processing of preprodynorphin complementary DNA in the mouse anterior pituitary cell line AtT–20. Devi L, et al.
Mol Endocrinol 1989 Nov;3(11):1852–60

IMMUNOLOGY

Two different types of dynorphin–A–immunoreactive terminals in rat substantia nigra. Riesenberg R, et al.
Cell Tissue Res 1990 Jul;261(1):107–13

METABOLISM

Proton NMR and CD solution conformation determination and opioid receptor binding studies of a dynorphin A(1–17) model peptide. Vaughn JB Jr, et al.
Biochim Biophys Acta 1989 Nov 30;999(2):135–46
Dynorphin A(1–8) immunoreactive cell bodies, dendrites and terminals are postsynaptic to calcitonin gene–related peptide primary afferent terminals in the monkey dorsal horn. Carlton SM, et al. **Brain Res** 1989 Dec 11; 504(1):124–8
An ultrastructural study of dynorphin–immunoreactive nerve fibers and terminals in the celiac–superior mesenteric ganglion of the guinea pig. Elfvin LG, et al. **Brain Res** 1989 Nov 20;502(2):341–8
Differential modulation of striatonigral dynorphin and enkephalin by dopamine receptor subtypes. Jiang HK, et al. **Brain Res** 1990 Jan 15;507(1):57–64
Immunohistochemistry of opioid peptides in the guinea pig endocrine pancreas. Cetin Y. **Cell Tissue Res** 1990 Feb; 259(2):313–9
Binding of dynorphin A and related peptides to kappa– and mu–opioid receptors: sensitivity to Na+ ions and Gpp(NH)p. Gairin JE, et al. **Eur J Pharmacol** 1989 Oct 17;172(4–5):381–4
Analgesic, receptor binding, and peripheral opioid activities of synthetic dermorphin–dynorphin hybrid peptides. Ho CL, et al. **Int J Pept Protein Res** 1990 Feb;35(2):99–104
Sympathetic noradrenergic neurons containing dynorphin but not neuropeptide Y innervate small cutaneous blood vessels of guinea–pigs. Gibbins IL, et al.
J Auton Nerv Syst 1990 Feb;29(2):137–49
Introduction of guest peptides into Escherichia coli alkaline phosphatase. Excision and purification of a dynorphin analogue from an active chimeric protein. Freimuth PI, et al. **J Biol Chem** 1990 Jan 15;265(2):896–901
Extensive co–occurrence of substance P and dynorphin in striatal projection neurons: an evolutionarily conserved feature of basal ganglia organization. Anderson KD, et al.
J Comp Neurol 1990 May 15;295(3):339–69
Neuropeptide organization of the hypothalamic projection to the parabrachial nucleus in the rat. Moga MM, et al.
J Comp Neurol 1990 May 22;295(4):662–82
Formation of [Leu5]enkephalin from dynorphin A(1–8) by rat central nervous tissue in vitro. Dixon DM, et al.
J Neurochem 1990 Apr;54(4):1379–85
Regional distribution of calcitonin gene–related peptide–, substance P–, cholecystokinin–, Met5–enkephalin–, and dynorphin A (1–8)–like materials in the spinal cord and dorsal root ganglia of adult rats: effects of dorsal rhizotomy and neonatal capsaicin. Pohl M, et al. **J Neurochem** 1990 Oct;55(4):1122–30
ATP release, adenosine formation, and modulation of dynorphin and glutamic acid release by adenosine analogues in rat hippocampal mossy fiber synaptosomes. Terrian DM, et al. **J Neurochem** 1989 Nov;53(5):1390–9
Altered patterns of dynorphin immunoreactivity suggest mossy fiber reorganization in human hippocampal epilepsy. Houser CR, et al. **J Neurosci** 1990 Jan;10(1):267–82
Method for isolation of kappa–opioid binding sites by dynorphin affinity chromatography. Simon J, et al.
J Neurosci Res 1990 Apr;25(4):549–55
Effects of cocaine on extrapyramidal and limbic dynorphin systems. Smiley PL, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):938–43
Alterations of heart dynorphin–A in the development of spontaneously hypertensive rats. Dumont M, et al.
Neuropeptides 1990 Jan;15(1):43–8
Dynorphin–containing pilomotor neurons in the superior cervical ganglion of guinea pigs. Gibbins IL.
Neurosci Lett 1989 Dec 15;107(1–3):45–50
Increased neuropeptide–converting enzyme activities in cerebrospinal fluid of opiate–tolerant rats. Persson S, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):318–22
Effects of calcium antagonists on the evoked release of dynorphin A(1–8) and availability of intraterminal calcium in rat hippocampal mossy fiber synaptosomes. Terrian DM, et al. **Neurosci Lett** 1989 Dec 4;106(3):322–7
Effect of hypophysectomy on dynorphin mRNA and peptide content in the rat adrenal gland. Day R, et al.
Prog Clin Biol Res 1990;328:207–10
Adrenal dynorphin A and Leu–enkephalin levels in normotensive Wistar Kyoto (WKY) and spontaneously hypertensive rats (SHR). Dumont M, et al.
Prog Clin Biol Res 1990;328:243–6
Conversion of the dynorphins to Leu–enkephalin in human spinal cord. Nyberg F, et al. **Prog Clin Biol Res** 1990; 328:261–5
[Effects of Ligusticum wallichii on the plasma and CSF levels of dynorphin A1–13 in rabbits under acute experimental cerebral ischemia] Liu Z, et al.
Chung Hsi I Chieh Ho Tsa Chih 1990 Mar;10(3):160–1, 163, 133 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Central nervous system injection of dynorphin–(1–13) overrides gastric satiety factors in sheep. Della–Fera MA, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R946–50
Opioid and nonopioid mechanisms may contribute to dynorphin's pathophysiological actions in spinal cord injury. Faden AI. **Ann Neurol** 1990 Jan;27(1):67–74
Competitive and non–competitive NMDA antagonists limit dynorphin A–induced rat hindlimb paralysis. Bakshi R, et al. **Brain Res** 1990 Jan 15;507(1):1–5
Morphine and dynorphin(1–13) microinjected into the medial preoptic area and nucleus accumbens: effects on sexual behavior in male rats. Band LC, et al. **Brain Res** 1990 Jul 30;524(1):77–84
Opioid peptides (DAGO–enkephalin, dynorphin A(1–13), BAM 22P) microinjected into the rat brainstem: comparison of their antinociceptive effect and their effect on neuronal firing in the rostral ventromedial medulla. Fang FG, et al. **Brain Res** 1989 Oct 30;501(1):116–28
Facilitatory effects of opioids on the discharges of visceral nociceptors. Kumazawa T, et al. **Brain Res** 1989 Sep 18; 497(2):231–8
The effects of intranigral GABA and dynorphin A injections on striatal dopamine and GABA release: evidence that dopamine provides inhibitory regulation of striatal GABA neurons via D2 receptors. Reid MS, et al. **Brain Res** 1990 Jun 11;519(1–2):255–60
Dynorphin A(1–13) modulates apomorphine–induced behaviors using multidimensional behavioral analyses in the mouse. Ukai M, et al. **Brain Res** 1989 Oct 16;499(2):299–304
Opioids can enhance and inhibit the electrically evoked release of methionine–enkephalin. Xu H, et al.
Brain Res 1989 Dec 11;504(1):36–42
Coexisting peptides in hypothalamic neuroendocrine systems: some functional implications. Bondy CA, et al.
Cell Mol Neurobiol 1989 Dec;9(4):427–46 (86 ref.)
Gi proteins and calcium in dynorphin–induced hypothermia and behaviour. Cavicchini E, et al. **Eur J Pharmacol** 1990 May 16;180(2–3):357–60
A direct non–opiate interaction of dynorphin–(1–13) with the N–methyl–D–aspartate (NMDA) receptor. Massardier D, et al. **Eur J Pharmacol** 1989 Oct 24;170(1–2):125–6
Effects of beta–endorphin, met–enkephalin, and dynorphin A on basal and stimulated insulin secretion in the mouse. Ahrén B. **Int J Pancreatol** 1989 Sep;5(2):165–78
Synthesis and structure–activity relationships of dynorphin A–(1–8) amide analogues. Yoshino H, et al.
J Med Chem 1990 Jan;33(1):206–12
Different spinal effects of opioid agonists on spinal and spino–bulbo–spinal reflexes in rats. Suzuki T, et al.
J Neural Transm Gen Sect 1990;79(1–2):1–9
Intracerebroventricular physostigmine–induced analgesia: enhancement by naloxone, beta–funaltrexamine and nor–binaltorphimine and antagonism by dynorphin A (1–17). Fujimoto JM, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1045–52
Systemic single dose morphine pretreatment desensitizes mice to the spinal antianalgesic action of dynorphin A (1–17). Fujimoto JM, et al. **J Pharmacol Exp Ther** 1990 Jul; 254(1):1–7
Different motor actions of dynorphins and nonpeptide kappa opioid receptor agonists in the isolated rat colon. Scheurer U, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1324–30
Differential release of substance P and somatostatin in the rat spinal cord in response to noxious cold and heat; effect of dynorphin A(1–17). Tiseo PJ, et al.
J Pharmacol Exp Ther 1990 Feb;252(2):539–45
Kappa agonists inhibit gastric emptying but not acid secretion in rhesus monkeys. Touzeau PL, et al.
J Pharmacol Exp Ther 1990 Jun;253(3):1010–6
Dynorphin–selective inhibition of adenylyl cyclase in guinea pig cerebellum membranes. Konkoy CS, et al.
Mol Pharmacol 1989 Oct;36(4):627–33
Dynorphin prolongs the action potential of mouse sensory ganglion neurons by decreasing a potassium conductance whereas another specific kappa opioid does so by increasing a calcium conductance. Shen KF, et al.
Neuropharmacology 1990 Apr;29(4):343–9
Characterization of dynorphin A(1–17)–induced place preference in rats. Iwamoto ET. **NIDA Res Monogr** 1989; 95:308–9
Differential release of substance P and somatostatin in the rat spinal cord in response to noxious cold and heat: effect of dynorphin A(1–17). Tiseo PJ, et al.
NIDA Res Monogr 1989;95:297
Facilitation of sexual behaviors in the male rat associated with intra–VTA injections of opiates. Mitchell JB, et al.
Pharmacol Biochem Behav 1990 Mar;35(3):643–50
Dynorphin A and cAMP–dependent protein kinase independently regulate neuronal calcium currents. Gross RA, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7025–9
N,N–diallylated analogs of dynorphin A–(1–13) as potent antagonists for the endogenous peptide and selective kappa opioid analgesics. Lemaire S, et al. **Prog Clin Biol Res** 1990; 328:45–8
Dynorphin prolongs the action potential duration of mouse sensory ganglion neurons by decreasing a K+ conductance whereas the specific kappa opioid, U–50,488H does so by increasing a Ca2+ conductance. Shen KF, et al.
Prog Clin Biol Res 1990;328:343–6
[Mechanism of dynorphin inhibition on vasoconstriction in vitro] Sun FY, et al. **Sheng Li Hsueh Pao** 1989 Aug; 41(4):354–60 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

Rostral and caudal ventricular infusion of antibodies to dynorphin A(1–17) and dynorphin A(1–8): effects on electrically–elicited feeding in the rat. Carr KD, et al.
Brain Res 1990 Jan 22;507(2):289–94
Clonidine, administered intracerebroventricularly in mice, produces an anti–analgesic effect which may be mediated spinally by dynorphin A (1–17). Fujimoto JM, et al.
Neuropharmacology 1990 Apr;29(4):351–8
Spinal dynorphin A (1–17): possible mediator of antianalgesic action. Fujimoto JM, et al. **Neuropharmacology** 1990 Jul; 29(7):609–17
Intracerebroventricular (ICV) clonidine produces an antianalgesic effect through spinal dynorphin A(1–17) mediation. Fujimoto JM, et al. **NIDA Res Monogr** 1989; 95:306–7

SECRETION

Effect of hypertonic saline infusion on the level of immunoreactive dynorphin in extracted human plasma. Margioris AN, et al. **J Clin Endocrinol Metab** 1990 Aug; 71(2):298–304
Release of dynorphin A in cat spinal cord in vivo. Hutchison WD, et al. **Prog Clin Biol Res** 1990;328:191–4

TOXICITY

Dynorphin A–induced rat hindlimb paralysis and spinal cord injury are not altered by the kappa opioid antagonist

nor-binaltorphimine. Long JB, et al. **Brain Res** 1989 Sep 11;497(1):155–62
Blockade of the glycine modulatory site of NMDA receptors modifies dynorphin-induced behavioral effects. Bakshi R, et al. **Neurosci Lett** 1990 Mar 2;110(1–2):113–7

DYPHYLLINE see under **THEOPHYLLINE**

DYSARTHRIA see under **SPEECH DISORDERS**

DYSAUTONOMIA see **AUTONOMIC NERVOUS SYSTEM DISEASES**

DYSAUTONOMIA, FAMILIAL

Traumatic granuloma of the tongue (Riga-Fede disease): association with familial dysautonomia. Eichenfield LF, et al. **J Pediatr** 1990 May;116(5):742–4
[A case of acute idiopathic pandysautonomia] Sannomiya K, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):895–900 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Megaesophagus and recurrent apnea in an adult patient with familial dysautonomia. Maayan C, et al. **Am J Gastroenterol** 1990 Jun;85(6):729–32
Orthopaedic manifestations in congenitally insensate patients. Guidera KJ, et al. **J Pediatr Orthop** 1990 Jul–Aug; 10(4):514–21
Achalasia of the esophagus in childhood: surgical treatment in 35 cases with special reference to familial cases and glucocorticoid deficiency association. Nihoul-Fékété C, et al. **J Pediatr Surg** 1989 Oct;24(10):1060–3

DIAGNOSIS

Familial dysautonomia (Riley-Day syndrome) [letter; comment] Katz S. **Can Med Assoc J** 1990 Feb 15;142(4):287 Comment on: Can Med Assoc J 1989 Sep 15;141(6):514.
[The acrodynic form of the Riley-Day syndrome] Tridon P, et al. **Pediatrie** 1989;44(6):455–8 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

The effect of orthostatic hypotension on cerebral blood flow and middle cerebral artery velocity in autonomic failure, with observations on the action of ephedrine. Brooks DJ, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):962–6

GENETICS

Familial distal dysautonomia. Robinson B, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1281–5
Riley-Day syndrome, brain stimulation and the genetic engineering of a world without pain. Mancini LS. **Med Hypotheses** 1990 Mar;31(3):201–7 (13 ref.)

METABOLISM

Calcineurin and synaptophysin in the human spinal cord of normal individuals and patients with familial dysautonomia. Goto S, et al. **Acta Neuropathol (Berl)** 1990;79(6):647–52

DYSBETALIPOPROTEINEMIA see **HYPERLIPOPROTEINEMIA TYPE III**

DYSCHONDROPLASIAS see **OSTEOCHONDRODYSPLASIAS**

DYSEMBRYOMA see **TERATOMA**

DYSENTERY

COMPLICATIONS

[Clinical aspects of combined rotavirus-dysentery infection in children] Mazankova LN, et al. **Pediatriia** 1989;(12):52–5 **(Rus)**

DIAGNOSIS

[Difficulties in the differential diagnosis between a series of infectious diseases and food poisoning] Brodov LE, et al. **Klin Med (Mosk)** 1989 Jul;67(7):131–5 **(Rus)**

DRUG THERAPY

Therapeutic value of Gramurin (oxolinic acid) in Shigella infections and Shigella-negative dysentery syndrome. Münnich D, et al. **Ther Hung** 1990;38(1):41–3

IMMUNOLOGY

[Clinico-immunological parameters in elderly patients with dysentery] Bashirova DK, et al. **Sov Med** 1989;(7):125 **(Rus)**

MICROBIOLOGY

Epidemiology of the enteroinvasive Escherichia coli. Observations in Hungary. Kétyi I. **J Hyg Epidemiol Microbiol Immunol** 1989;33(3):261–7

PHYSIOPATHOLOGY

Growth suppression in the Trichuris dysentery syndrome. Cooper ES, et al. **Eur J Clin Nutr** 1990 Apr;44(4):285–91
[Activity of plasma fibronectin and the physico-chemical parameters of homeostasis in acute dysentery] Pak SG, et al. **Sov Med** 1989;(10):108–12 **(Rus)**

PREVENTION & CONTROL

Prevention of diarrhoea and dysentery by hand washing. Aung Myo Han, et al. **Trans R Soc Trop Med Hyg** 1989 Jan-Feb;83(1):128–31

THERAPY

[Use of polyionic solutions in the treatment of acute intestinal infections] Chekalina KI, et al. **Sov Med** 1989;(11):111–4 **(Rus)**

VETERINARY

Glucose metabolism and NADH recycling by Treponema hyodysenteriae, the agent of swine dysentery. Stanton TB. **Appl Environ Microbiol** 1989 Sep;55(9):2365–71
Effect of levamisole on parenteral vaccines for swine dysentery. Jenkins EM, et al. **Br Vet J** 1989 Nov-Dec; 145(6):565–72
Diarrhea induced by Treponema hyodysenteriae: a young chick cecal model for swine dysentery. Sueyoshi M, et al. **Infect Immun** 1990 Oct;58(10):3348–62
Cell culture propagation of a coronavirus isolated from cows with winter dysentery. Benfield DA, et al. **J Clin Microbiol** 1990 Jun;28(6):1454–7
Antibody production by the pig colon during infection with Treponema hyodysenteriae. Rees AS, et al. **Res Vet Sci** 1989 Sep;47(2):263–9
Winter dysentery in adult dairy cattle. Fleetwood AJ, et al. **Vet Rec** 1989 Nov 25;125(22):553–4
[Long-term recurrent diarrhea on a large pig-breeding farm] **Tijdschr Diergeneeskd** 1990 Aug 15;115(15–16):742–5 **(Dut)**

DYSENTERY, AMEBIC

[Amebic dysentery; diarrhea with blood and mucus urges to a study of the feces] Kager PA. **Ned Tijdschr Geneeskd** 1989 Oct 14;133(41):2025–6 **(Dut)**

COMPLICATIONS

[A successfully treated case of fulminating amebic dysentery associated with multiple perforation of the large intestine] Hashimura H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 May;86(5):1149–53 (23 ref.) **(Jpn)**

DIAGNOSIS

Ultrasonography in amebic colitis. Hussain S, et al. **J Ultrasound Med** 1990 Jul;9(7):385–8
Use of Wright's stain to identify Entamoeba histolytica trophozoites in faeces. Anaya-Velázquez F, et al. **Trans R Soc Trop Med Hyg** 1989 Mar-Apr;83(2):210
[Bloody diarrhea in imported illnesses] Kager PA. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2075–6 **(Dut)**
[Ulcerative colitis or amebic colitis—a case report] Koppatz K, et al. **Z Gesamte Inn Med** 1990 Jan 1;45(1):25–7 (Eng. Abstr.) **(Ger)**
[Fibrocolonoscopy in patients with intestinal amebiasis] Ivanov KS, et al. **Klin Med (Mosk)** 1989 Oct;67(10):116–8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Comparison of four nitroimidazole compounds for treatment of symptomatic amoebiasis in Kenya. Chunge CN, et al. **East Afr Med J** 1989 Nov;66(11):724–7
Is single dose of metronidazole sufficient for intestinal amoebiasis? [letter] Garg RK. **J Assoc Physicians India** 1990 Mar;38(3):246

IMMUNOLOGY

Coincidence of deficient delayed hypersensitivity and intestinal protozoa in homosexual men. Jokipii L, et al. **Scand J Infect Dis** 1989;21(5):563–71

MORTALITY

[Amebiasis in Transcaucasia and in mountainous desert locales] Krukovskiĭ BV, et al. **Arkh Patol** 1989;51(10):70–4 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Ultrastructure of experimental intestinal invasive amebiasis. Martínez-Palomo A, et al. **Am J Trop Med Hyg** 1989 Sep; 41(3):273–9
Effect of silica treatment on histopathology of intestinal & hepatic amoebiasis in murine model. Gill NJ, et al. **Indian J Med Res** 1989 Nov;89:426–34
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 18–1990. A 58-year-old man with hematochezia and a lesion of the cecum. **N Engl J Med** 1990 May 3;322(18):1298–305
[A fatal case of amebic dysentery] Mironov NA, et al. **Med Parazitol (Mosk)** 1990 Mar-Apr;(2):58–9 (Eng. Abstr.) **(Rus)**
[Necrotizing amebic colitis: report of 6 cases] Zapata-Sirvent RL, et al. **GEN** 1988 Apr-Jun;42(2):70–6 (Eng. Abstr.) **(Spa)**

SURGERY

Role of intraoperative prograde colonic lavage and a decompressive loop ileostomy in the management of transmural amoebic colitis. Luvuno FM. **Br J Surg** 1990 Feb;77(2):156–9
Colectomy for necrotizing amebic pancolitis in early childhood with survival. Lami JL, et al. **J Pediatr Surg** 1989 Nov;24(11):1174–6 (17 ref.)
[Necrotizing amebic dysentery. A rare cause of massive colorectal hemorrhage] Scherf FG, et al. **Zentralbl Chir** 1990;115(2):103–6 **(Ger)**

DYSENTERY, BACILLARY

Risk of diarrhea during the first year of life associated with initial and subsequent colonization by specific enteropathogens. Cravioto A, et al. **Am J Epidemiol** 1990 May;131(5):886–904
Shigellosis: a killer disease. Lamabadusuriya SP. **Ceylon Med J** 1990 Mar;35(1):1–4 (14 ref.)
From the National Institute of Allergy and Infectious Diseases. Summary of the 25th United States-Japan Joint Conference on cholera and related diarrheal diseases. Spriggs DR, et al. **J Infect Dis** 1990 Sep;162(3):584–90
[Clinical study on norfloxacin in pediatrics] Minamitani M, et al. **Jpn J Antibiot** 1990 May;43(5):837–41 (Eng. Abstr.) **(Jpn)**

BLOOD

[Characteristics of thrombohemorrhagic syndrome in patients with acute intestinal infections] Permitina MI, et al. **Klin Med (Mosk)** 1989 Nov;67(11):117–21 **(Rus)**

COMPLICATIONS

Fulminating encephalopathy associated with Shigella flexneri. Akl KF, et al. **Br J Clin Pract** 1989 Aug; 43(8):305–6
Toxic megacolon and perforation caused by Shigella [letter] Upadhyay AK, et al. **Br J Surg** 1989 Nov;76(11):1217
The prognosis of convulsions during childhood shigellosis. Zvulunov A, et al. **Eur J Pediatr** 1990 Jan;149(4):293–4
Aggregative Escherichia coli, Salmonella, and Shigella are associated with increasing duration of diarrhea. Bhan MK, et al. **Indian J Pediatr** 1989 Jan-Feb;56(1):81–6
Haemolytic uraemic syndrome with shigella. O'Riordan T, et al. **Ir Med J** 1990 Jun;83(2):72–3
The association of Shiga toxin and other cytotoxins with the neurologic manifestations of shigellosis. Ashkenazi S, et al. **J Infect Dis** 1990 May;161(5):961–5
Acute glomerulonephritis due to Shigella flexneri dysentery with demonstration of a virulence protein of Shigella in circulating immune complexes [letter] Musher DM, et al. **J Infect Dis** 1990 Feb;161(2):366–7
Mixed enteric infection [letter] Hamer IE, et al. **Postgrad Med J** 1990 May;66(775):411
[Acute Sonnei's dysentery complicated by perforation of the sigmoid colon and development of peritonitis] Zelgermakher GA, et al. **Klin Med (Mosk)** 1989 Jul; 67(7):125–6 **(Rus)**

DIAGNOSIS

Shigella colitis with radiological and endoscopic correlation: case report. Zalev AH, et al. **Can Assoc Radiol J** 1989 Dec;40(6):328–30
The colon in shigellosis: serial colonoscopic appearances in Shigella dysenteriae I. Khuroo MS, et al. **Endoscopy** 1990 Jan;22(1):35–8
Extra-intestinal manifestations of shigellosis [letter] Kasthuri AS, et al. **J Assoc Physicians India** 1989 Aug;37(8):552
Production and characterization of monoclonal antibodies with diagnostic potential against Shigella flexneri. Islam MS, et al. **J Clin Lab Immunol** 1989 Aug;29(4):199–206
Detection of Shigella in feces using DNA amplification. Frankel G, et al. **J Infect Dis** 1990 Jun;161(6):1252–6
[Bloody diarrhea in imported illnesses] Kager PA. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2075–6 **(Dut)**
[Clinico-morphological criteria of diagnosis of dysentery and Salmonella infections] Shuvalova EP, et al. **Klin Med (Mosk)** 1989 Nov;67(11):112–7 (Eng. Abstr.) **(Rus)**
[The etiological structure of acute intestinal infections] Khubka EI, et al. **Lab Delo** 1990;(2):40–4 (Eng. Abstr.) **(Rus)**
[The importance of immunofluorescence and cytologic indices in the diagnosis and prognosis of the course of dysentery] Shuvalova EP, et al. **Ter Arkh** 1989;61(11):69–72 **(Rus)**
[Use of an immunoenzyme test-system for detecting the O-antigen to Sonne's shigella in clinical practice] Ivanov KS, et al. **Tr Inst Pastera** 1988;64:155–7 **(Rus)**
[The significance of the O antigen for the diagnosis of acute Sonne dysentery] Ivanov KS, et al. **Vrach Delo** 1990 May; (5):106–8 (Eng. Abstr.) **(Rus)**
[Use of immunoenzyme analysis in the rapid diagnosis and study of the characteristics of circulating O-antigen in biological fluids of patients with acute dysentery Sonne] Pak SG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989

Jun;(6):77–81 (Eng. Abstr.) (Rus)

DRUG THERAPY

Salmonella, Shigella and sugar [letter] Fulton JD, et al. Br J Surg 1990 May;77(5):593

Therapy for shigellosis. II. Randomized, double-blind comparison of ciprofloxacin and ampicillin. Bennish ML, et al. J Infect Dis 1990 Sep;162(3):711–6

Use of quinolones in childhood [letter; comment] Cruciani M, et al. J Pediatr 1989 Dec;115(6):1022–4 Comment on: J Pediatr 1988 Nov;113(5):901–7.

Danger of antibiotic resistance in shigellosis [letter] Kaya IS, et al. Lancet 1990 Jul 21;336(8708):186

Pivmecillinam–resistant Shigella dysenteriae type 1 infection in Bangladesh [letter] Mitra AK, et al. Lancet 1990 Jun 16;335(8703):1461–2

Single-dose ciprofloxacin for shigellosis [letter] Williams HM, et al. Lancet 1990 Jun 2;335(8701):1343–4

General considerations in the management of typhoid fever and dysentery. Gilman RH.
Scand J Gastroenterol Suppl 1989;169:11–8 (61 ref.)

A comparison of furazolidone and ampicillin in the treatment of invasive diarrhea. Prado Camacho JL.
Scand J Gastroenterol Suppl 1989;169:54–9

A randomized, controlled, single-blind study comparing furazolidone with trimethoprim–sulfamethoxazole in the empirical treatment of acute invasive diarrhea. Rodriguez RS, et al. Scand J Gastroenterol Suppl 1989;169:47–53

Therapeutic value of Gramurin (oxolinic acid) in Shigella infections and Shigella-negative dysentery syndrome. Münnich D, et al. Ther Hung 1990;38(1):41–3

[Pharmacokinetics and clinical studies of norfloxacin in the pediatric field] Motohiro T, et al. Jpn J Antibiot 1990 May; 43(5):901–17 (Eng. Abstr.) (Jpn)

[Clinico-experimental basis of phytotherapy of acute dysentery] Pogorel'skaia LV, et al. Sov Med 1990;(2):106–9 (Rus)

EPIDEMIOLOGY

The use of hygiene, cohorting, and antimicrobial therapy to control an outbreak of shigellosis. Hoffman RE, et al. Am J Dis Child 1990 Feb;144(2):219–21

Shigellosis outbreaks at summer camps for the mentally retarded in New York State. Coles FB, et al.
Am J Epidemiol 1989 Nov;130(5):966–75

Shigellosis associated with recreational water contact in Los Angeles County. Sorvillo FJ, et al.
Am J Trop Med Hyg 1988 May;38(3):613–7

Molecular epidemiology of Shigella infection in Central Australia. Albert MJ, et al. Epidemiol Infect 1990 Aug; 105(1):51–7

Epidemiology of shigellosis in Teknaf, a coastal area of Bangladesh: a 10-year survey. Hossain MA, et al.
Epidemiol Infect 1990 Aug;105(1):41–9

Childhood carriers of Salmonella and Shigella species in the rural area of Ile-Ife, Nigeria. Olusanya O, et al.
Ethiop Med J 1990 Apr;28(2):49–52

Observation on distribution of Shigella species in Lagos: a report for the period 1985–1988 [letter] Ogunsanya T, et al. Eur J Epidemiol 1990 Jun;6(2):227–8

Molecular epidemiology of Shigella sonnei in Pima County, Arizona: evidence for a Mexico–related plasmid. Litwin CM, et al. J Infect Dis 1990 Apr;161(4):797–800

Community outbreaks of shigellosis—United States.
MMWR 1990 Aug 3;39(30):509–13, 519

[Epidemiological role of food products in spreading Shigella infections in present-day conditions] Solodovnikov IuP, et al. Gig Sanit 1990 May;(5):17–20 (Rus)

[The formulation of epidemiological hypotheses by using the methods of multivariate statistical analysis] Khodyrev AP, et al. Zh Mikrobiol Epidemiol Immunobiol 1990 Apr; (4):40–5 (Eng. Abstr.) (Rus)

[The importance of Shigella boydii in shigellosis morbidity in the USSR] Solodovnikov IuP.
Zh Mikrobiol Epidemiol Immunobiol 1990 Mar;(3):34–9 (Eng. Abstr.) (Rus)

[Modern theoretical and practical conceptions of the epidemiology of shigellosis] Solodovnikov IuP.
Zh Mikrobiol Epidemiol Immunobiol 1989 Sep;(9):117–21 (Rus)

ETIOLOGY

Shigella sonnei sepsis after splenectomy and portacaval shunt [letter] Christensen P, et al.
Eur J Clin Microbiol Infect Dis 1990 Feb;9(2):148–9

Pathogenesis of Shigella diarrhea. XVI. Selective targetting of Shiga toxin to villus cells of rabbit jejunum explains the effect of the toxin on intestinal electrolyte transport. Kandel G, et al. J Clin Invest 1989 Nov;84(5):1509–17

Shigellosis: recent progress, persisting problems and research issues. Keusch GT, et al. Pediatr Infect Dis J 1989 Oct; 8(10):713–9 (33 ref.)

[The role of delayed hypersensitivity in the development of an experimental dysentery infection and vaccinal process] Nikolaeva TN, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Dec;(12):58–62 (Eng. Abstr.) (Rus)

[Modern views on the pathogenesis of dysentery: the role of invasion and the toxic action of Shigella] Pokrovskiĭ VI, et al. Zh Mikrobiol Epidemiol Immunobiol 1990 May; (5):101–10 (53 ref.) (Rus)

[Changes in the etiologic structure of Sonne shigellosis in its multiyear dynamics] Shapiro MI, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Sep;(9):66–9 (Eng. Abstr.) (Rus)

[Shigellosis in the USSR: the etiological role of Shigella dysenteriae] Solodovnikov IuP.
Zh Mikrobiol Epidemiol Immunobiol 1989 Nov;(11):37–42 (Eng. Abstr.) (Rus)

[The etiological structure of shigellosis in the USSR in recent years] Solodovnikov IuP.
Zh Mikrobiol Epidemiol Immunobiol 1989 Dec;(12):50–4 (Eng. Abstr.) (Rus)

GENETICS

Molecular genetic approaches to the pathogenesis of bacillary dysentery. Yoshikawa M, et al. Microbiol Sci 1988 Nov; 5(11):333–4, 339 (25 ref.)

IMMUNOLOGY

Specific immunoglobulin A–secreting cells in peripheral blood of humans following oral immunization with a bivalent Salmonella typhi–Shigella sonnei vaccine or infection by pathogenic S. sonnei. Van de Verg L, et al. Infect Immun 1990 Jun;58(6):2002–4

Indicators of spontaneous and stimulated nitroblue tetrazole test of polymorphous-nuclear leucocytes in acute dysentery patients. Nagoev BS, et al.
J Hyg Epidemiol Microbiol Immunol 1989;33(3):305–10

[Features of the formation of antibodies to heterologous antigens in experimental Shigella infection in guinea pigs and mice] Borisov VA. Mikrobiol Zh 1989 May–Jun; 51(3):52–6 (Eng. Abstr.) (Rus)

[Immunity indices during the vaccinal therapy of protracted forms of dysentery in children] Elkina SI, et al.
Zh Mikrobiol Epidemiol Immunobiol 1989 Jul;(7):74–8 (Eng. Abstr.) (Rus)

METABOLISM

Intestinal electrolyte transport and diarrheal disease [letter; comment] Cleary TG, et al. N Engl J Med 1990 May 3; 322(18):1321–2 Comment on: N Engl J Med 1989 Sep 28;321(13):879–83.

MICROBIOLOGY

Molecular characterization of trimethoprim resistance in Shigella sonnei in Sicily. Agodi A, et al.
Epidemiol Infect 1990 Aug;105(1):29–40

Role of bacterial and host factors in the pathogenesis of Shigella septicemia. Struelens MJ, et al.
Eur J Clin Microbiol Infect Dis 1990 May;9(5):337–44

Plasmid profile as a useful marker of a Shigella dysenteriae type 1 strain causing an epidemic of shigellosis. Al-Wortman KH, et al. J Diarrhoeal Dis Res 1988 Sep–Dec;6(3–4):208–14

Novel dihydrofolate reductases isolated from epidemic strains of trimethoprim/sulfamethoxazole-resistant Shigella sonnei. Barg NL, et al. J Infect Dis 1990 Aug;162(2):466–73

Increase of trimethoprim resistance among Shigella species, 1975–1988: analysis of resistance mechanisms. Heikkilä E, et al. J Infect Dis 1990 Jun;161(6):1242–8

Interspecies gene transfer in vivo producing an outbreak of multiply resistant shigellosis. Tauxe RV, et al.
J Infect Dis 1989 Dec;160(6):1067–70

Childhood shigellosis: clinical and bacteriological study. Daoud AS, et al. J Trop Med Hyg 1990 Aug;93(4):275–9

Plasmid profile analysis as a tool for characterization of epidemic Shigella sonnei strains. Mendoza MC, et al.
Microbiologia 1986 Oct;2(2):81–8

[Antibiotic resistance of Shigella isolated in the Kara-Kalpak A.S.S.R. 1987–1988] Shenderovich VA, et al.
Antibiot Khimioter 1990 Jun;35(6):27–9 (Eng. Abstr.) (Rus)

[Resistance of Shigella to antibiotics] Shishkina EV, et al. Antibiot Khimioter 1989 Oct;34(10):749–50 (Eng. Abstr.) (Rus)

[Drug resistance of the causative agent of Grigor'ev–Shiga dysentery (Shigella dysenteriae 1)isolated in the USSR] Solodovnikov IuP, et al. Antibiot Khimioter 1989 Oct; 34(10):745–8 (Eng. Abstr.) (Rus)

[Shigella serotypes and drug resistance patterns of strains isolated in Etimesgut, Turkey, in 1987] Korten V, et al. Mikrobiyol Bul 1988 Apr;22(2):89–94 (Eng. Abstr.) (Tur)

MORTALITY

A steep decline of death in a shigellosis epidemic in Bangladesh by a community–participated intervention. Islam Q, et al. J Diarrhoeal Dis Res 1988 Sep–Dec; 6(3–4):215–20

An outbreak of shigellosis in central India: higher death rate in post-measles shigellosis [letter] Mathur R, et al.
J Diarrhoeal Dis Res 1989 Mar–Jun;7(1–2):28–9

Death in shigellosis: incidence and risk factors in hospitalized patients [published erratum appears in J Infect Dis 1990 Aug;162(2):573] Bennish ML, et al. J Infect Dis 1990 Mar; 161(3):500–6

Causes of death and the histopathologic findings in fatal shigellosis. Butler T, et al. Pediatr Infect Dis J 1989 Nov; 8(11):767–72

PATHOLOGY

Gastric shigellosis in rhesus monkeys. Kent TH, et al.
Am J Pathol 1967 Aug;51(2):259–67

The pathology of Shigella flexneri infection in rhesus monkeys: an endoscopic and histopathological study of colonic lesions. Katakura S, et al. APMIS 1990 Apr; 98(4):313–9

PREVENTION & CONTROL

Doxycycline prophylaxis for shigellosis. Ben-Yehuda O, et al. Arch Intern Med 1990 Jan;150(1):209–12

Modern vaccines. Enteric infections. Levine MM. Lancet 1990 Apr 21;335(8695):958–61 (17 ref.)

Protection of adult rabbits and monkeys from lethal shigellosis by oral immunization with a thymine-requiring and temperature-sensitive mutant of Shigella flexneri Y. Ahmed ZU, et al. Vaccine 1990 Apr;8(2):153–8

Studies in volunteers to evaluate candidate Shigella vaccines: further experience with a bivalent Salmonella typhi–Shigella sonnei vaccine and protection conferred by previous Shigella sonnei disease. Herrington DA, et al. Vaccine 1990 Aug;8(4):353–7

Construction and evaluation of a double mutant of Shigella flexneri as a candidate for oral vaccination against shigellosis. Sansonetti PJ, et al. Vaccine 1989 Oct; 7(5):443–50

New approach to develop a vaccine design against shigellosis [letter] Sinha AK, et al. Vaccine 1990 Aug;8(4):410

[Effectiveness of biopreparations from Propionibacterium shermanii in preventing dysbacteriosis during treatment of Salmonella and Shigella infections] Sidorchuk II, et al.
Mikrobiol Zh 1984 Mar–Apr;46(2):43–7 (Eng. Abstr.) (Rus)

THERAPY

[Effectiveness of biopreparations from Propionibacterium shermanii in preventing dysbacteriosis during treatment of Salmonella and Shigella infections] Sidorchuk II, et al.
Mikrobiol Zh 1984 Mar–Apr;46(2):43–7 (Eng. Abstr.) (Rus)

TRANSMISSION

[A case of shigellosis due to Shigella dysenteriae 1 which was thought to be infected in domestic area] Obana M, et al. Kansenshogaku Zasshi 1990 Jun;64(6):758–62 (Eng. Abstr.) (Jpn)

DYSGAMMAGLOBULINEMIA

Multicentric angiofollicular lymph node hyperplasia with peripheral neuropathy, pseudotumor cerebri, IgA dysproteinemia, and thrombocytosis in women. A distinct syndrome. Feigert JM, et al. Ann Intern Med 1990 Sep 1;113(5):362–7

BLOOD

[Human malaria: dysglobulinemia–hypocholesterolemia syndrome] Cuisinier-Raynal JC, et al. Med Trop (Mars) 1990 Jan–Mar;50(1):91–5 (Eng. Abstr.) (Fre)

CHEMICALLY INDUCED

Serum IgA deficiency induced by prolonged phenytoin treatment. Talesnik E, et al. Rev Invest Clin 1989 Oct–Dec; 41(4):331–5

[Selective and generalized hypogammaglobulinemia in patients with rheumatoid arthritis in treatment with gold salts] Bambara LM, et al. Ann Ital Med Int 1986 Dec; 1(4):298–302 (Eng. Abstr.) (Ita)

COMPLICATIONS

Selective IgA deficiency and spondyloarthropathy: a distinct disease? Herrero-Beaumont G, et al. Ann Rheum Dis 1990 Aug;49(8):636–7

IgG2/IgG4 subclass deficiency in a patient with chronic mucocutaneous candidiasis and bronchiectases. Brägger C, et al. Eur J Pediatr 1989 Dec;149(3):168–9

Severe duodenal candidiasis in a patient with IgA deficiency and T cell defects. Singh S, et al.
Indian J Gastroenterol 1990 Jan;9(1):95–6

Theiler's virus–induced demyelination in mice immunosuppressed with anti-IgM and in mice expressing the xid gene. Rodriguez M, et al. Microb Pathog 1990 Jan; 8(1):23–35

Association between acute lymphoblastic leukemia and partial IgA deficiency in a young man—a family study. Chevailler A, et al. Nouv Rev Fr Hematol 1990;32(2):159–64

IgG subclass deficiency and recurrent respiratory infections in children. Verini M, et al. Riv Eur Sci Med Farmacol 1989 Jun;11(3):251–5

[Hypogammaglobulinemia G and A with hypergammaglobulinemia M. Apropos of 12 cases] Benkerrou M, et al. Arch Fr Pediatr 1990 May;47(5):345–9 (Eng. Abstr.) (Fre)

[Selective deficit of IgA and infantile rheumatoid arthritis. Case reports] Cesaretti G, et al. Minerva Pediatr 1989 May; 41(5):267–71 (Eng. Abstr.) (Ita)

[Acute pneumonia in patients with immunologic deficiency conditions] Ivashkin VT, et al. Klin Med (Mosk) 1989 Oct; 67(10):33–7 (Rus)

DIAGNOSIS

Selective IgA deficiency--a case report. Anuradha S, et al. **Indian J Pathol Microbiol** 1989 Oct;32(4):310–1

Variable expression of IgG2 deficiency. Kavanaugh AF, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):4–10

Complement and immunoglobulin studies in 15 cases of chronic meningococcemia: properdin deficiency and hypoimmunoglobulinemia. Nielsen HE, et al. **Scand J Infect Dis** 1990;22(1):31–6

[Clinico-immunologic aspects of IgG subclass deficiency] Eibl M. **Kinderarztl Prax** 1989 Sep;57(9):419–28 (0 ref.) (Eng. Abstr.) (Ger)

[Primary plasmacytic lambda chain leukemia: report of a case] Sztejnhaus AR, et al. **AMB Rev Assoc Med Bras** 1989 May–Jun;35(3):120–2 (Eng. Abstr.) (Por)

[IgA deficiency in certain pathological states] Popa D, et al. **Rev Med Interna [Med Interna]** 1989 Sep–Oct; 41(5):473–6 (Rum)

ETIOLOGY

Hypogammaglobulinemia in uremic infants receiving peritoneal dialysis. Katz A, et al. **J Pediatr** 1990 Aug;117(2 Pt 1):258–61

IgG subclass deficiency in acute myeloid leukemia. Preud'homme JL, et al. **Nouv Rev Fr Hematol** 1989; 31(5):349–51

[Synergistic effect of organic solvents and tobacco smoke on serum immunoglobulin levels in humans] Moszczyński P, et al. **Med Pr** 1989;40(6):337–41 (Eng. Abstr.) (Pol)

[General variable immunologic deficiency with malabsorption syndrome] Parfenov AI, et al. **Klin Med (Mosk)** 1990 May;68(5):90–4 (Eng. Abstr.) (Rus)

GENETICS

Genetic aspects of immunoglobulin A deficiency. Cunningham-Rundles C. **Adv Hum Genet** 1990;19:235–66 (142 ref.)

Molecular analysis of the IGHA and MHC class III region genes in one family with IgA and C4 deficiencies. Keyeux G, et al. **Exp Clin Immmunogenet** 1990;7(3):170–80

Individuals with IgA deficiency and common variable immunodeficiency share polymorphisms of major histocompatibility complex class III genes. Schaffer FM, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):8015–9

Recurrent extended HLA haplotypes in children with selective IgA deficiency. Cuccia-Belvedere M, et al. **Tissue Antigens** 1989 Aug;34(2):127–32

IMMUNOLOGY

Immunoglobulin G subclasses and lymphocyte subpopulations and function in osteomyelitis and septic arthritis. Beard LJ, et al. **Acta Paediatr Scand** 1990 Jun–Jul; 79(6–7):599–604

IgG subclasses and their deficiencies. Hsiao RL, et al. **Acta Paediatr Sin** 1988 Sep–Oct;29(5):295–302 (49 ref.)

IgG subclass deficiency in children with recurrent infections. Wong KS, et al. **Acta Paediatr Sin** 1989 May–Jun; 30(3):165–71

Effect of oral bacterial lysates on serum immunoglobulins. Palma-Carlos AG, et al. **Allerg Immunol (Paris)** 1989 Nov; 21(9):354–6

HLA type in bullous pemphigoid, cicatricial pemphigoid and linear IgA disease. Venning VA, et al. **Clin Exp Dermatol** 1989 Jul;14(4):283–5

Selective IgG subclass deficiency: quantification and clinical relevance. Jefferis R, et al. **Clin Exp Immunol** 1990 Sep; 81(3):357–67 (45 ref.)

Frequencies of interleukin-5 mRNA-producing cells in healthy individuals and in immunoglobulin-deficient patients, measured by in situ hybridization. Smith CI, et al. **Clin Exp Immunol** 1990 Sep;81(3):417–22

Subnormal serum concentrations of IgG2 in children with frequent infections associated with varied patterns of immunologic dysfunction. Shackelford PG, et al. **J Pediatr** 1990 Apr;116(4):529–38

Antibody deficiency: IgG subclass deficiency and vaccine nonresponder states. **Pediatr Infect Dis J** 1990 Jun; 9(6):424–33

IgG4 deficiency in IgA-deficient patients. Beard LJ, et al. **Pediatr Infect Dis J** 1989 Oct;8(10):705–9

Lack of the G2m(n) allotype in IgG subclass deficiency, in IgG2 deficiency together with lack of G1m(a) and G3m(g), and in IgG3 deficiency together with lack of G1m(f) and G3m(b). Oxelius VA. **Scand J Immunol** 1990 Feb; 31(2):243–7

T-cell abnormalities in antibody deficiency syndromes. Raziuddin S, et al. **Scand J Immunol** 1989 Oct;30(4):419–24

HLA association of anti-IgA antibody production. Strothman RA, et al. **Tissue Antigens** 1989 Aug;34(2):141–4

[IgG subclass deficiencies] Preud'homme JL, et al. **Arch Fr Pediatr** 1990 Mar;47(3):213–9 (72 ref.) (Fre)

[Isolated immunoglobulin G (IgG) deficiency in dystrophia myotonica (Curschmann-Steinert)] Röther E, et al. **Med Klin** 1990 Mar;85 Suppl 1:150–3 (Ger)

[Disorders of immune function in children with selective IgA deficiency] Bartmann P, et al. **Monatsschr Kinderheilkd** 1989 Dec;137(12):780–4 (Eng. Abstr.) (Ger)

[Selective deficiency of IgA in autoimmune diseases] Calabozo Raluy M, et al. **Rev Clin Esp** 1990 Mar; 186(4):163–5 (Eng. Abstr.) (Spa)

PREVENTION & CONTROL

Prevention of hypogammaglobulinemia of prematurity with intravenous immune globulin. Ruderman JW, et al. **J Perinatol** 1990 Jun;10(2):150–5

THERAPY

Use of an immunoglobulin preparation enriched for IgA to treat recurrent sinopulmonary infections in a patient with chronic GVHD. Klingemann HG, et al. **Bone Marrow Transplant** 1990 Mar;5(3):205

Patients with Igg subclass and/or selective antibody deficiency to polysaccharide antigens: initiation of a controlled clinical trial of intravenous immune globulin. Knutsen AP. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 2):640–5; discussion 645–7

[A rare form of immunodeficiency and an attempt to correct it at a polyclinic] Krysin IuS, et al. **Ter Arkh** 1989; 61(9):151–3 (Rus)

VETERINARY

Influence of parental serum immunoglobulins on morbidity and mortality of beagles and their offspring. Shofer FS, et al. **Am J Vet Res** 1990 Feb;51(2):239–44

Pulmonary abscessation, hepatoencephalopathy and IgM deficiency associated with Rhodococcus equi in a foal. Freestone JF, et al. **Aust Vet J** 1989 Oct;66(10):343–4

DYSGERMINOMA

Testicular cancer: detection, prevention, and therapeutics. Keith J. **Am Pharm** 1990 Jul;NS30(7):46–51

Radiation therapy for intracranial germinoma: the case for limited volume treatment. Dattoli MJ, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug;19(2):429–33

Extragonadal sacrococcygeal seminoma--a case report. Iwagaki H, et al. **Jpn J Surg** 1990 Mar;20(2):225–8

[Sterility and tumors of the testis. Study of late exocrine and endocrine functions in stage I or IIA tumors] Bouchot O, et al. **J Urol (Paris)** 1989;95(6):367–71 (Eng. Abstr.) (Fre)

[A case of bilateral testicular germ cell tumor] Sakurai M, et al. **Hinyokika Kiyo** 1989 Jul;35(7):1239–41 (7 ref.) (Eng. Abstr.) (Jpn)

[Secondary malignant neoplasm in a 15-year-old child] Pashkov IuV, et al. **Vopr Onkol** 1989;35(8):994–6 (Rus)

[Simultaneous bilateral testicular tumors] Villavicencio H, et al. **Actas Urol Esp** 1989 Sep–Oct;13(5):403–4 (Eng. Abstr.) (Spa)

ANALYSIS

Keratin 7 is a marker for a subset of trophoblastic cells in human germ cell tumors. Damjanov I, et al. **Arch Pathol Lab Med** 1990 Jan;114(1):81–3

BLOOD

Increased growth hormone responses to growth hormone releasing hormone and thyrotropin releasing hormone in patients with metastatic testicular cancer. Pietschmann P, et al. **Horm Metab Res** 1990 Feb;22(2):109–13

[Determination of specific markers in the blood in tumors of the testis] Sakalo VS, et al. **Klin Khir** 1990;(5):47–8 (Rus)

COMPLICATIONS

Ovarian dysgerminoma presenting with hypercalcaemia. Case report and review of the literature. Anstey A, et al. **Br J Obstet Gynaecol** 1990 Jul;97(7):641–4

Unilateral intra-abdominal testis with seminoma in a previously unrecognised hermaphrodite. Gürsan A, et al. **Br J Urol** 1990 Jun;65(6):654–5

Seminoma of normally-descended and cryptorchid testis. Sham JS, et al. **Eur J Surg Oncol** 1990 Feb;16(1):33–6

Successful therapy of metastatic embryonal carcinoma coexisting with gonadoblastoma in a patient with 46,XY pure gonadal dysgenesis (Swyer's syndrome). LaPolla JP, et al. **Gynecol Oncol** 1990 Jun;37(3):417–21 (23 ref.)

Incidence and distribution of carcinoma in situ in testes removed for germ cell tumour: possible inadequacy of random testicular biopsy in detecting the condition. Loy V, et al. **Histopathology** 1990 Feb;16(2):198–200

Bilateral synchronous tumors in testes in unrecognized mixed gonadal dysgenesis: a case report and review of literature. Kulkarni JN, et al. **J Urol** 1990 Feb;143(2):362–4 (9 ref.)

Ambiguous genitalia, gonadoblastoma, aniridia and mental retardation with deletion of chromosome 11. Martinez-Mora J, et al. **J Urol** 1989 Nov;142(5):1298–300

46,XY pure gonadal dysgenesis with gonadoblastoma. Ikarashi T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov;41(11):1831–5

[A case of retroperitoneal bulky tumor with cryptorchidism] Harada Y, et al. **Hinyokika Kiyo** 1989 Jun;35(6):1009–14 (Eng. Abstr.) (Jpn)

[A case of persistent müllerian duct syndrome associated with seminoma] Tsujii T, et al. **Hinyokika Kiyo** 1989 May; 35(5):905–10 (11 ref.) (Eng. Abstr.) (Jpn)

[Association of Wegener's granulomatosis and tumor process] Lozovan MG, et al. **Probl Tuberk** 1990;(2):73–5 (Rus)

DIAGNOSIS

Differentiation of seminomatous from nonseminomatous testicular tumors with MR imaging. Johnson JO, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):539–43

A rare case of intersex: 46XY gonadal dysgenesis. Holland MJ, et al. **Aust N Z J Obstet Gynaecol** 1990 May; 30(2):179–81

Staging, treatment, and results in testicular seminoma. A 12-year report. Epstein BE, et al. **Cancer** 1990 Feb 1; 65(3):405–11

Primary mediastinal seminoma. Lajos TZ, et al. **Chest** 1971 May;59(5):575–8

Germ cell tumors of the thalamus and the basal ganglia. Tamaki N, et al. **Childs Nerv Syst** 1990 Jan;6(1):3–7 (36 ref.)

Gadolinium-enhanced MR imaging in the management of a midline cerebral dysgerminoma. Hawes DR, et al. **Comput Med Imaging Graph** 1989 Nov–Dec;13(6):463–8

Ultrasonography of testicular tumors. Fuse H, et al. **Eur Urol** 1990;17(4):273–5

Primary chiasmal germinoma. A case report and review of the literature. Bowman CB, et al. **J Clin Neuro Ophthalmol** 1990 Mar;10(1):9–17 (48 ref.)

Negative neuron-specific enolase immunostain in intracranial germinomas: a finding against the existence of a tumor of pineal parenchymal-cell origin with histological features of germinoma? [letter] Vaquero J, et al. **Neurosurgery** 1990 Jul;27(1):169

Early diagnosis of testicular cancer. Jones W, et al. **Practitioner** 1989 Apr 8;233(1466):509

Case study of an intra-abdominal mass: a diagnostic problem and a treatment dilemma [see comments] Bowden JC. **Radiogr Today** 1989 Jul;55(626):22–3 Comment in: Radiogr Today 1989 Sep;55(628):24.

Ultrasonography of testicular tumors. Marth D, et al. **Urol Int** 1990;45(4):237–40

Nonpalpable occult testis tumor. Weaver DJ, et al. **Urology** 1989 Oct;34(4):218–20

[Atypical manifestation of extragonadal germinative tumors] Kryger-Baggesen N, et al. **Ugeskr Laeger** 1990 Mar 19; 152(12):824–5 (Eng. Abstr.) (Dan)

[Primary retroperitoneal seminoma] Olsen JB, et al. **Ugeskr Laeger** 1990 Jul 30;152(31):2224–6 (Eng. Abstr.) (Dan)

[Extragonadal germinal tumors] von der Maase H. **Ugeskr Laeger** 1990 Jul 30;152(31):2219–20 (Dan)

[Mediastinal teratocarcinoma and hypophyseal stalk germinoma in a patient with Klinefelter syndrome] König R, et al. **Klin Padiatr** 1990 Jan–Feb;202(1):53–6 (Eng. Abstr.) (Ger)

[The extragonadal seminoma: a differential diagnosis for mediastinal growth] Teifke A, et al. **Rontgenblatter** 1989 Nov;42(11):462–4 (Eng. Abstr.) (Ger)

[A case from practice (147). Patient: Mr. S.M. G., born 1921, former telephone clerk] Rinderknecht BP. **Schweiz Rundsch Med Prax** 1989 Sep 12;78(37):1007–8 (Ger)

[Results of close testicular tumor after-care] Erpenbach K, et al. **Urologe [A]** 1990 Mar;29(2):102–7; discussion 107–9 (Eng. Abstr.) (Ger)

[Clinical study of testicular tumor: tumor tissue content of hCG in seminoma] Sugawara T. **Nippon Hinyokika Gakkai Zasshi** 1989 Jun;80(6):847–55 (Eng. Abstr.) (Jpn)

[Thermography in inflammatory and neoplastic diseases of the testis] Gotsadze DT, et al. **Vopr Onkol** 1990;36(4):476–9 (Eng. Abstr.) (Rus)

DRUG THERAPY

Autonomic neuropathy after treatment with cisplatin, vinblastine, and bleomycin for germ cell cancer. Hansen SW. **BMJ** 1990 Feb 24;300(6723):511–2

Chemotherapy of advanced seminoma: clinical significance of radiological findings before and after treatment. Fossa SD, et al. **Br J Urol** 1989 Nov;64(5):530–4

Alternatives to radiotherapy in the management of seminoma. Oliver RT, et al. **Br J Urol** 1990 Jan;65(1):61–7

The effect of corticosteroid administration on bleomycin lung toxicity. Jensen JL, et al. **Cancer** 1990 Mar 15;65(6):1291–7

[Chemotherapeutic intensification in germ cell tumors] Droz JP, et al. **Bull Cancer (Paris)** 1990;77(4):349–54 (Eng. Abstr.) (Fre)

[Advanced testicular seminoma: treatment of residual masses after chemotherapy. A review of 3 cases] Bassoulet J, et al. **J Urol (Paris)** 1990;96(1):19–24 (Eng. Abstr.) (Fre)

[Salvage chemotherapy of non-seminomatous germ cell tumors. Phase II trial of a combination of etoposide, ifosfamide and high-dose cisplatin] Ribrag V, et al. **Presse Med** 1990 Jul 7–14;19(27):1263–6 (Eng. Abstr.) (Fre)

[Recurrent germinoma successfully treated with cisplatin. Case report] Hida K, et al. **Neurol Med Chir (Tokyo)** 1989 Jun;29(6):510–4 (22 ref.) (Eng. Abstr.) (Jpn)

ENZYMOLOGY

Enzymatic heterogeneity of seminomas. Koshida K, et al. **Clin Chim Acta** 1990 Jan 15;186(2):255–64

Analysis of serum placental alkaline phosphatase activity in testicular cancer and cigarette smokers. Koshida K, et al. **Urol Res** 1990;18(3):169–73

Placental-like alkaline phosphatase in seminoma. Koshida K,

et al. **Urol Res** 1990;18(2):87–92 (68 ref.)
Enolase isozymes in seminoma. Takashi M, et al. **Urol Res** 1990;18(3):175–80

EPIDEMIOLOGY

[Germ cell testicular tumors. Three therapeutic periods] Fargeot P. **Bull Cancer (Paris)** 1990;77(4):331–9 (Eng. Abstr.) **(Fre)**
[Epidemiology of germinal cell testicular tumor in Hungary] Klujber V, et al. **Orv Hetil** 1990 May 6;131(18):975–8 (42 ref.) (Eng. Abstr.) **(Hun)**

ETIOLOGY

Seminoma in renal transplant patients: a patient report and review of the literature. Fisher KS, et al. **Curr Surg** 1990 May–Jun;47(3):181–5 (13 ref.)
[Maldescensus testis and testicular tumors. Personal experiences] Fahlenkamp D, et al. **Z Urol Nephrol** 1990 May;83(5):239–42 (Eng. Abstr.) **(Ger)**
[Undescended testis cancer: report of two cases—review of the literature of 179 cases in Japan] Kikuchi Y, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1791–3 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Testicular tumor following orchiopexy: a case report] Okuno T, et al. **Hinyokika Kiyo** 1989 Sep;35(9):1613–5 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Mixed gonadal dysgenesis and gonadal tumor—growth of seminoma after 27 years of an exploratory laparotomy] Uchida A, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1781–5 (13 ref.) (Eng. Abstr.) **(Jpn)**
[Seminoma in the undescended testis] Llarena Ibarguren R, et al. **Arch Esp Urol** 1989 Jun;42(5):461–2 (Eng. Abstr.) **(Spa)**

GENETICS

Isochromosome 12p in mediastinal germ cell tumor. Dal Cin P, et al. **Cancer Genet Cytogenet** 1989 Oct 15;42(2):243–51
Are germ cell tumors part of the Li–Fraumeni cancer family syndrome? Hartley AL, et al. **Cancer Genet Cytogenet** 1989 Oct 15;42(2):221–6
Loss of heterozygosity in human germinal tumors. Radice P, et al. **Cytogenet Cell Genet** 1989;52(1–2):72–6
Dispermic chimera associated with dysgerminoma. Takizawa H, et al. **Exp Clin Immunogenet** 1989;6(2):133–42
45,X streak gonad syndrome associated with bilateral 'burnt out' gonadoblastoma. Bösze P, et al. **Gynecol Obstet Invest** 1989;28(3):113–7 (35 ref.)
Changes in glycolipid expression in human testicular tumor. Ohyama C, et al. **Int J Cancer** 1990 Jun 15;45(6):1040–4
Activated ras genes in human seminoma: evidence for tumor heterogeneity. Mulder MP, et al. **Oncogene** 1989 Nov; 4(11):1345–51

IMMUNOLOGY

Monoclonal antibodies to human germ cell tumors from "routine" paraffin-embedded pathological specimens. Takenaka A, et al. **Histochemistry** 1990;94(1):27–30
HLA-antigen distribution in seminoma, HCG-positive seminoma and non-seminomatous tumours of the testis. Kratzik C, et al. **Urol Res** 1989;17(6):377–80

METABOLISM

The expression of HLA class I antigens in germ cell testicular cancer. Klein B, et al. **Am J Clin Pathol** 1990 Feb; 93(2):202–7

MORTALITY

Long-term survival in patients treated for testicular seminoma. Hannun Y, et al. **J Surg Oncol** 1990 Mar; 43(3):177–80

PATHOLOGY

Spermatocytic seminoma associated with rhabdomyosarcoma. Matoska J, et al. **Am J Clin Pathol** 1990 Jul;94(1):89–95
A case of gonadoblastoma in a normal woman with tubal pregnancy. Elemenoglou J, et al. **Arch Geschwulstforsch** 1990;60(3):223–6
Tubular seminoma [letter; comment] Talerman A. **Arch Pathol Lab Med** 1989 Nov;113(11):1204 Comment on: Arch Pathol Lab Med 1989 Apr;113(4):414–6.
Pelvic haematoma following orchidectomy: a pitfall in the staging of non-seminomatous germ cell tumour. Russell SA, et al. **Br J Radiol** 1990 Jun;63(750):492–4
Dysgerminoma of the ovary with rhabdomyosarcoma. Report of a case. Akhtar M, et al. **Cancer** 1989 Dec 1; 64(11):2309–12 (13 ref.)
Testicular seminoma. Results of the Yale University experience, 1964–1984. Hunter M, et al. **Cancer** 1989 Oct 15;64(8):1608–11
Lung carcinoma with metastasis to testicular seminoma. Ro JY, et al. **Cancer** 1990 Jul 15;66(2):347–53 (24 ref.)
'Watch policy' in patients with suspected stage I testicular seminoma: CT as a sole staging and surveillance technique. Charig MJ, et al. **Clin Radiol** 1990 Jul;42(1):40–1
Fine-needle aspiration biopsy of seminoma and dysgerminoma: cytologic, histologic, and electron microscopic correlations. Akhtar M, et al. **Diagn Cytopathol** 1990;6(2):99–105
Criteria for aspiration cytology for the diagnosis of seminoma. Fleury-Feith J, et al. **Diagn Cytopathol** 1989; 5(4):392–5
Spermatocytic seminoma—report of 3 cases. Jambhekar NA, et al. **Indian J Pathol Microbiol** 1990 Jan;33(1):78–80
Carcinoma in situ in testicular biopsies. Mazanec K, et al. **Int Urol Nephrol** 1989;21(6):635–42 (30 ref.)
Findings in lymph nodes of patients with germ cell tumours after chemotherapy and their relation to prognosis. Zuk RJ, et al. **J Clin Pathol** 1989 Oct;42(10):1049–54
Immunohistochemical study of natural killer cells in tumor-infiltrating lymphocytes of primary intracranial germinomas. Vaquero J, et al. **J Neurosurg** 1990 Apr; 72(4):616–8
Metastatic germ cell cancer—a curable neoplasm. Mead GM. **J Pathol** 1989 Sep;159(1):3–4 (9 ref.)
Carcinoma in situ of the testis in infertile men. A histological, immunocytochemical, and cytophotometric study of DNA content. Nistal M, et al. **J Pathol** 1989 Nov;159(3):205–10
The shrinking seminoma. Simpson AH, et al. **J R Soc Med** 1990 Mar;83(3):187
Testicular seminoma: clinical and pathological features that may predict para-aortic lymph node metastases. Marks LB, et al. **J Urol** 1990 Mar;143(3):524–7
Bilateral synchronous testis tumors of different histology in a patient with the acquired immunodeficiency syndrome related complex. Roehrborn CG, et al. **J Urol** 1990 Aug; 144(2 Pt 1):353–5
A new neurosurgical ventriculoscope—technical note. Oka K, et al. **Neurol Med Chir (Tokyo)** 1990 Jan;30(1):77–9
Testicular carcinoma in situ and nonpalpable seminoma eight years after contralateral teratocarcinoma. Gleich P. **Urology** 1990 Aug;36(2):181–2
Large mononuclear cells in seminoma—an immunohistochemical analysis of 21 cases. Cho NH, et al. **Yonsei Med J** 1989;30(2):125–32
[Extra-gonadal germ-cell tumors] Baranyay F, et al. **Morphol Igazsagugyi Orv Sz** 1989 Jul;29(3):195–203 (41 ref.) (Eng. Abstr.) **(Hun)**
[Mixed ovarian germinal neoplasia: adult embryonal carcinoma and dysgerminoma with trophoblasts] Martinazzi M, et al. **Pathologica** 1989 Sep–Oct; 81(1075):537–42 (Eng. Abstr.) **(Ita)**
[A case of bilateral germ cell tumor of the testis] Saito M, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1961–4 (Eng. Abstr.) **(Jpn)**
[Clinical statistics of germinal testicular cancer] Seguchi T, et al. **Nippon Hinyokika Gakkai Zasshi** 1990 Jun; 81(6):889–94 (Eng. Abstr.) **(Jpn)**
[A case of the primary mediastinal seminoma invading into the extradural space of the thoracic spine] Umehara F, et al. **Rinsho Shinkeigaku** 1990 Mar;30(3):304–7 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Seminoma associated with crossed fused renal ectopia. Key DW, et al. **J Urol** 1990 May;143(5):1015–6
Cerebellar malignant glioma after radiation therapy for suprasellar germinoma—case report. Tamura T, et al. **Neurol Med Chir (Tokyo)** 1989 Mar;29(3):223–9 (55 ref.)
[Roentgenological and pathological diagnoses of primary osseous alveolar sarcoma—report of 3 cases] Li KY. **Chung Hua Chung Liu Tsa Chih** 1990 Jan;12(1):61–2 (Eng. Abstr.) **(Chi)**
[The role of lymphography in detecting lymphogenic metastases in patients with ovarian dysgerminomas] Vishnevskaia EE, et al. **Vopr Onkol** 1990;36(2):220–5 (Eng. Abstr.) **(Rus)**

RADIOTHERAPY

Chronic myelogenous leukemia following radiation therapy for testicular seminoma. Iurlo A, et al. **Blut** 1989 Dec; 59(6):503–4
Spinal seeding in cranial germinoma [letter] Brada M, et al. **Br J Cancer** 1990 Feb;61(2):339–40
Dysgerminoma. The Radiumhemmet series 1927–1984. Björkholm E, et al. **Cancer** 1990 Jan 1;65(1):38–44
Staging, treatment, and results in testicular seminoma. A 12-year report. Epstein BE, et al. **Cancer** 1990 Feb 1; 65(3):405–11
Treatment results and acute and late toxicity of radiation therapy for testicular seminoma. Sommer K, et al. **Cancer** 1990 Jul 15;66(2):259–63 (16 ref.)
Radiation therapy for intracranial germinoma: the case for limited volume treatment. Dattoli MJ, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug;19(2):429–33
Pineal and CNS germ cell tumors: Royal Marsden Hospital experience 1962–1987. Dearnaley DP, et al. **Int J Radiat Oncol Biol Phys** 1990 Apr;18(4):773–81
Radiation therapy of pure seminoma of the testicle. Phillips TW, et al. **J Med Assoc Ga** 1990 Mar;79(3):181–3
Modern radiotherapy results with bulky stages II and III seminoma. Smalley SR, et al. **J Urol** 1990 Sep;144(3):685–9
Tumours of the pancreas as a sequel to abdominal irradiation. Rokkas T, et al. **Postgrad Med J** 1989 Jul;65(765):493–6
Treatment of locoregional germ cell tumor. Herr HW. **Prog Clin Biol Res** 1990;350:295–9 (8 ref.)
Radiotherapy for tumours of the pineal region and suprasellar germinomas. Glanzmann C, et al. **Radiother Oncol** 1989 Sep;16(1):31–40
Long-term recovery of spermatogenesis after radiotherapy in patients with testicular cancer. Hansen PV, et al. **Radiother Oncol** 1990 Jun;18(2):117–25
Results of treatment in irradiated testicular seminoma patients. Kellokumpu-Lehtinen P, et al. **Radiother Oncol** 1990 May;18(1):1–7
Radiotherapy for tumours of the pineal region and suprasellar germinomas (by Glanzmann and Seelentag) [letter] Neuwelt EA. **Radiother Oncol** 1989 Sep;16(1):79–80
Combined radiosurgery and external radiotherapy of intracranial germinomas. Casentini L, et al. **Surg Neurol** 1990 Aug;34(2):79–86
[Radiation-induced cancer after treatment of seminoma. Apropos of a case of non-Hodgkin's lymphoma occurring 18 years after cobalt therapy (letter)] Gepner P, et al. **Ann Med Interne (Paris)** 1990;141(3):280–2 (16 ref.) **(Fre)**
[2 cases of testicular seminoma associated with HIV infection. Analysis of treatment tolerance] Beuzeboc P, et al. **Bull Cancer (Paris)** 1989;76(7):729–32 (Eng. Abstr.) **(Fre)**
[Treatment results following large-field irradiation of testicular seminoma] Heider KM, et al. **Radiobiol Radiother (Berl)** 1989;30(4):376–7 **(Ger)**
[The effect of lithium carbonate on the leukocyte count following ionizing radiation. 4. The effect of lithium carbonate on the activation of granulocytes] Wolf G, et al. **Radiobiol Radiother (Berl)** 1989;30(6):546–52 (Eng. Abstr.) **(Ger)**
[Recurrent gastroparesis following abdominal irradiation. Therapy with cisapride] Petrasch S, et al. **Z Gastroenterol** 1989 Dec;27(12):739–42 (Eng. Abstr.) **(Ger)**
[Radiotherapy in patients orchiectomized for seminoma. Observations on 46 cases] Oggero P, et al. **Minerva Urol Nefrol** 1989 Jul–Sep;41(3):191–3 (Eng. Abstr.) **(Ita)**
[A case of double primary malignancy of intracranial germinoma and thymoma controlled by radiotherapy] Okumura T, et al. **Nippon Gan Chiryo Gakkai Shi** 1990 Apr 20;25(4):821–5 (Eng. Abstr.) **(Jpn)**
[The results of radiation therapy of patients with pure seminoma of the testis] Fujita M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jun 25; 49(6):767–73 (Eng. Abstr.) **(Jpn)**

SECONDARY

Systemic metastasis from primary intracranial germinoma: a case report and literature review. Balsitis M, et al. **Br J Neurosurg** 1989;3(6):717–23 (12 ref.)
Primary germinoma of the posterior fossa with CSF and extracranial metastases. Ng HK, et al. **Br J Neurosurg** 1990; 4(3):239–42
Spontaneous pneumothorax with metastatic seminoma. Chippindale AJ, et al. **Br J Radiol** 1989 Dec;62(744):1100–2
Lumbar pain in stage I testicular germ cell tumours: a symptom preceding radiological abnormality. Smith DB, et al. **Br J Urol** 1989 Sep;64(3):302–4
Psoas nodes—an overlooked site of metastasis from testicular tumours. Williams MP, et al. **Clin Radiol** 1989 Nov; 40(6):607–9
Decompression of epidural metastases from germ cell tumors with chemotherapy. Cooper K, et al. **J Neurooncol** 1990 Jun;8(3):275–80
[Diagnosis and treatment of unknown primary tumors] Dodion P, et al. **Bull Cancer (Paris)** 1989;76(9):939–46 (16 ref.) (Eng. Abstr.) **(Fre)**
[Feasibility and relevance of tumor volumetry for stage classification and assessment of remission of germ cell tumors] Kreuser ED, et al. **Urologe [A]** 1989 Nov; 28(6):344–9 (Eng. Abstr.) **(Ger)**
[Ureteral metastasis of testicular seminoma] Villavicencio H, et al. **Actas Urol Esp** 1990 Jan–Feb;14(1):66–7 (Eng. Abstr.) **(Spa)**

SECRETION

[Establishment and characterization of ovarian pure dysgerminoma cell line secreting human chorionic gonadotropin] Tanaka K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep;41(9):1360–6 (Eng. Abstr.) **(Jpn)**

SURGERY

Orchidectomy alone for stage I seminoma of the testis. Duchesne GM, et al. **Cancer** 1990 Mar 1;65(5):1115–8
Control of extraneural metastasis of a primary intracranial nongerminomatous germ-cell tumor. Case report. Watterson J, et al. **J Neurosurg** 1989 Oct;71(4):601–4
[Dysgerminomas. Clinical aspects, therapy and prognosis with reference to the cooperative therapy study MAIKEI 83/86 for non-testicular germ cell tumors of the Society of Pediatric Oncology] Göbel U, et al. **Geburtshilfe Frauenheilkd** 1989 Aug;49(8):737–42 (Eng. Abstr.) **(Ger)**
[Late para-aortic recurrence of dysgerminoma] Meier W, et al. **Geburtshilfe Frauenheilkd** 1990 May;50(5):414–6 (Eng. Abstr.) **(Ger)**
[Rare malignant tumors of the ovaries in adolescents—clinical aspects in deciding therapeutic aggressiveness] Schröder W, et al. **Zentralbl Gynakol** 1990;112(10):633–40 (Eng. Abstr.) **(Ger)**

THERAPY

The case for relevant staging of germ cell tumors. Logothetis CJ. **Cancer** 1990 Feb 1;65(3 Suppl):709–17 (28 ref.)

Dysgerminoma of the ovary: treatment results in northern Sweden. Rogo KO, et al. **Eur J Gynaecol Oncol** 1990; 11(1):43–9

The risk of second cancer (SC) in patients treated for testicular seminoma. Hellbardt A, et al. **Int J Radiat Oncol Biol Phys** 1990 Jun;18(6):1327–31

A science for shrinking seminoma? [letter; comment] Andejeski Y, et al. **J Clin Oncol** 1990 Apr;8(4):756 Comment on: J Clin Oncol 1989 Oct;7(10):1497–503.

Primary mediastinal nonseminomatous germ cell tumors. Results of a multimodality approach. Wright CD, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):210–7

Discordant human chorionic gonadotropin results giving rise to inappropriate therapy in a case of testicular cancer. Bulger KN, et al. **J Urol** 1989 Dec;142(6):1574–5

Early stage pure seminoma testis. Zablow A, et al. **N J Med** 1989 Oct;86(10):800–3

Primary mediastinal seminoma. Sham JS, et al. **Oncology** 1990;47(2):124–7

Recent progress in the treatment of seminoma. Giannone L, et al. **Oncology (Williston Park)** 1988 Oct;2(10):21–7, 31, 34

Prognosis in patients with metastatic non-seminomatous testicular cancer. Aass N, et al. **Radiother Oncol** 1990 Apr; 17(4):285–92

[Pure ovarian dysgerminoma. Evaluation of experiences and definition of a therapeutic strategy] Dilhuydy JM, et al. **Bull Cancer (Paris)** 1990;77(3):213–24 (Eng. Abstr.) (Fre)

[Use of sperm cryopreservation by tumor patients] Holland-Moritz H, et al. **Hautarzt** 1990 Apr;41(4):204–6 (Eng. Abstr.) (Ger)

[Bilateral testicular tumors of germ cell origin: a case report—a review of 136 cases in Japanese literature] Irisawa C, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1795–800 (15 ref.) (Eng. Abstr.) (Jpn)

[Treatment of a patient with mediastinal germinoma and with rare anomaly of congenital subclavian steal phenomenon] Shimizu N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug;37(8):1597–601 (Eng. Abstr.) (Jpn)

ULTRASTRUCTURE

Nucleolar organizer regions in seminoma and intratubular malignant germ cells. Delahunt B, et al. **Mod Pathol** 1990 Mar;3(2):141–5

Yolk sac carcinoma in a B6C3F1 mouse. Katsuta O, et al. **Nippon Juigaku Zasshi** 1989 Dec;51(6):1235–8

URINE

Rapid diagnosis of testicular choriocarcinoma by urinary pregnancy tests [letter] Caulfield MJ, et al. **Lancet** 1990 May 19;335(8699):1230

VETERINARY

Malignant seminoma in a cryptorchid stallion. Smith BL, et al. **J Am Vet Med Assoc** 1989 Sep 15;195(6):775–6

Excess of seminomas observed in Vietnam service U.S. military working dogs. Hayes HM, et al. **J Natl Cancer Inst** 1990 Jun 20;82(12):1042–6

Bilateral testicular seminoma in a New Zealand white rabbit (Oryctolagus cuniculus). Anderson WI, et al. **Lab Anim Sci** 1990 Jul;40(4):420–1

Diagnostic exercise: abdominal mass in a male pigeon. Dillehay DL, et al. **Lab Anim Sci** 1990 Mar;40(2):202–3

DYSGEUSIA see under **TASTE DISORDERS**

DYSKINESIA see **MOVEMENT DISORDERS**

DYSKINESIA, DRUG-INDUCED

Tardive oculogyric crises [see comments] FitzGerald PM, et al. **Neurology** 1989 Nov;39(11):1434–7 Comment in: Neurology 1990 Apr;40(4):728.

Delayed appearance of facial tics following chronic fluphenazine administration to guinea pigs. Weinstein D, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1057–60

BLOOD

Melanocyte-stimulating hormone in tardive dyskinesia [letter; comment] Charlton BC. **Biol Psychiatry** 1990 Mar 15;27(6):676–8 Comment on: Biol Psychiatry 1989 Jun;26(2):213–4.

Neuroleptic-induced extrapyramidal symptoms and serum calcium levels. Results of a pilot study. Kuny S, et al. **Neuropsychobiology** 1989;21(2):67–70

COMPLICATIONS

Pineal gland calcification and tardive dyskinesia [letter] Sandyk R, et al. **Lancet** 1990 Jun 23;335(8704):1528

DIAGNOSIS

Mild tardive dyskinesia: an 8-year follow-up study. Yassa R, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):139–40

A comparison of severe tardive dystonia and severe tardive dyskinesia. Yassa R, et al. **Acta Psychiatr Scand** 1989 Aug; 80(2):155–9

A rating scale for drug-induced akathisia. Barnes TR. **Br J Psychiatry** 1989 May;154:672–6

The lifetime outcome and involuntary movements of schizophrenia never treated with neuroleptic drugs. Four rare cases in Ireland. Waddington JL, et al. **Br J Psychiatry** 1990 Jan;156:106–8

Association of tardive dyskinesia with increased frequency of eye movement disturbances in chronic schizophrenic patients. A clinical note. Oepen G, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(4):241–5

Who should perform the AIMS examination? Munetz MR, et al. **Hosp Community Psychiatry** 1990 Aug;41(8):912–5

Characterization of abnormal respiratory movements in schizophrenic, bipolar and mentally handicapped patients with typical tardive dyskinesia. Youssef HA, et al. **Int Clin Psychopharmacol** 1989 Jan;4(1):55–9

Recognition and differential diagnosis of tardive dyskinesia. Cummings JL, et al. **Int J Psychiatry Med** 1989; 19(2):133–44 (61 ref.)

Severity of Parkinson's disease is a risk factor for peak-dose dyskinesia. Horstink MW, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):224–6

Dyskinesia in the elderly presenting as respiratory disorder. Godlee FN, et al. **Postgrad Med J** 1989 Nov;65(769):830–1

Asymmetry of neuroleptic-induced rigidity: development of quantitative methods and clinical correlates. Caligiuri MP, et al. **Psychiatry Res** 1989 Dec;30(3):275–84

The Hillside Akathisia Scale: a new rating instrument for neuroleptic-induced akathisia. Fleischhacker WW, et al. **Psychopharmacol Bull** 1989;25(2):222–6

Tardive dyskinesia. Tsoi WF. **Singapore Med J** 1989 Oct; 30(5):429–30

Neurologic approach to drug-induced movement disorders: a study of 125 patients. Miller LG, et al. **South Med J** 1990 May;83(5):525–32

[Tardive dyskinesia. After more than 2 decades] Lajeunesse C, et al. **Encephale** 1989 Sep–Oct;15(5):471–85 (227 ref.) (Eng. Abstr.) (Fre)

[Severe late dyskinesia caused by neuroleptics in a young female. Follow-up and treatment] Diedrich U, et al. **Nervenarzt** 1989 Dec;60(12):759–61 (Ger)

DRUG THERAPY

Effect of clonazepam on neuroleptic-induced oculogyric crisis. Horiguchi J, et al. **Acta Psychiatr Scand** 1989 Nov; 80(5):521–3

Vitamin E in the treatment of tardive dyskinesia. Elkashef AM, et al. **Am J Psychiatry** 1990 Apr;147(4):505–6

Clonazepam treatment of tardive dyskinesia: a practical GABAmimetic strategy. Thaker GK, et al. **Am J Psychiatry** 1990 Apr;147(4):445–51

Possible involvement of free radicals in neuroleptic-induced movement disorders. Evidence from treatment of tardive dyskinesia with vitamin E. Cadet JL, et al. **Ann N Y Acad Sci** 1989;570:176–85 (80 ref.)

Treatment of tardive dyskinesia with bromocriptine. A test of the receptor modification strategy. Lieberman JA, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):908–13

Metoprolol versus propranolol. Adler LA, et al. **Biol Psychiatry** 1990 Mar 15;27(6):673–5

L-tryptophan in neuroleptic-induced akathisia [letter] Kramer MS, et al. **Biol Psychiatry** 1990 Mar 15;27(6):671–2

Lithium and cholinomimetics [letter] Volavka J. **Biol Psychiatry** 1989 Oct;26(6):650–1

Lorazepam and anticholinergics in tardive akathisia [letter] Yassa R, et al. **Biol Psychiatry** 1990 Feb 15;27(4):463–4

Treatment of extrapyramidal side-effects [letter; comment] Adler LA, et al. **Br J Psychiatry** 1989 Aug;155:269 Comment on: Br J Psychiatry 1988 May;152:722–3.

Tardive dystonia. The benefits of time [see comments] Cooper SJ, et al. **Br J Psychiatry** 1989 Jul;155:113–5 Comment in: Br J Psychiatry 1989 Nov;155:715–6.

A crossover study of lecithin treatment of tardive dyskinesia. Gelenberg AJ, et al. **J Clin Psychiatry** 1990 Apr; 51(4):149–53

The pharmacologic treatment of neuroleptic-induced akathisia. Fleischhacker WW, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):12–21 (54 ref.)

Successful clonazepam treatment of neuroleptic-induced akathisia in older adolescents and young adults: a double-blind, placebo-controlled study. Kutcher S, et al. **J Clin Psychopharmacol** 1989 Dec;9(6):403–6

The behavioral toxicity of bromocriptine in patients with psychiatric illness. Perovich RM, et al. **J Clin Psychopharmacol** 1989 Dec;9(6):417–22

Effects of anticholinergic agents on patients with tardive dyskinesia and concomitant drug-induced parkinsonism. Wirshing WC, et al. **J Clin Psychopharmacol** 1989 Dec; 9(6):407–11

High-dose buspirone in case of tardive dyskinesia [letter] Neppe VM. **Lancet** 1989 Dec 16;2(8677):1458

Effects of neurotropic agents with a selectivity for alpha-adrenoceptors on nitrile-induced dyskinetic syndrome in mice. Tanii H, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):317–20

The effects of papaverine in tardive dyskinesia. Gardos G, et al. **Prog Neuropsychopharmacol** 1979;3(5–6):543–50

GM1 ganglioside as a potential treatment in tardive dyskinesia. Peselow ED, et al. **Psychopharmacol Bull** 1989; 25(2):277–80

Sulpiride in tardive dyskinesia [letter] Zarebinski JM, et al. **S Afr Med J** 1990 Sep 15;78(6):374–5

EPIDEMIOLOGY

Factors in the development of severe forms of tardive dyskinesia. Yassa R, et al. **Am J Psychiatry** 1990 Sep; 147(9):1156–63

Validation of tardive dyskinesia as measured on the Dyskinesia Identification System—Coldwater. Bostrom AC, et al. **Nurs Res** 1990 Sep–Oct;39(5):274–9

[Acute dyskinesia after the ingestion of antiemetics leading to emergency hospitalization] Andrejak M, et al. **Therapie** 1990 Jan–Feb;45(1):33–5 (Eng. Abstr.) (Fre)

ETIOLOGY

Non-right-handedness and maleness correlate with tardive dyskinesia among patients taking neuroleptics. Joseph AB. **Acta Psychiatr Scand** 1990 Jun;81(6):530–3

Spinal cord toxicity complicating treatment with cisplatin and etoposide. List AF, et al. **Am J Clin Oncol** 1990 Jun; 13(3):256–8

Tardive dyskinesia in psychiatric patients with substance use disorders. Olivera AA, et al. **Am J Drug Alcohol Abuse** 1990;16(1–2):57–66

Tardive dyskinesia associated with molindone treatment [letter] Katz SE. **Am J Psychiatry** 1990 Jan;147(1):124–5

Metoclopramide-induced movement disorders. Clinical findings with a review of the literature. Miller LG, et al. **Arch Intern Med** 1989 Nov;149(11):2486–92 (70 ref.)

Rhythmic movements of chronic akathisia [letter] Nemes Z, et al. **Biol Psychiatry** 1990 Feb 15;27(4):465–6

Tardive dyskinesia and lithium [letter; comment] **Br J Psychiatry** 1990 Jan;156:128–9 Comment on: Br J Psychiatry 1989 Jul;155:55–7.

Depression-dependent exacerbation of TD [letter; comment] Coleman R. **Br J Psychiatry** 1989 Nov;155:716–7 Comment on: Br J Psychiatry 1989 Aug;155:253–5.

Tardive dyskinesia in bipolar affective disorder: relationship to lithium therapy [see comments] Dinan TG, et al. **Br J Psychiatry** 1989 Jul;155:55–7 Comment in: Br J Psychiatry 1990 Jan;156:128–9.

Tardive dyskinesia: a five year follow-up. Fornazzari X, et al. **Can J Psychiatry** 1989 Oct;34(7):700–3

Carbamazepine-induced dyskinesia and ophthalmoplegia. Schwartzman MJ, et al. **Cleve Clin J Med** 1990 Jun; 57(4):367–72 (24 ref.)

Tardive dyskinesia induced by sulpiride. Achiron A, et al. **Clin Neuropharmacol** 1990 Jun;13(3):248–52

NB-355: a novel prodrug for L-DOPA with reduced risk for peak-dose dyskinesias in MPTP-treated squirrel monkeys. Tye SJ, et al. **Clin Neuropharmacol** 1989 Oct; 12(5):393–403

Ketamine-induced tongue protrusions in rats. Marco LA, et al. **Comp Biochem Physiol [C]** 1989;94(1):29–33

Movement disorders and new azapirone anxiolytic drugs. Jann MW, et al. **J Am Board Fam Pract** 1990 Apr–Jun; 3(2):111–9 (64 ref.)

Avoidance of metoclopramide for the treatment of clozapine-induced nausea [letter; comment] Jenkins M, et al. **J Clin Psychiatry** 1990 May;51(5):210 Comment on: J Clin Psychiatry 1989 Sep;50(9):329–38.

Neuroleptic withdrawal in patients meeting criteria for supersensitivity psychosis. Singh H, et al. **J Clin Psychiatry** 1990 Aug;51(8):319–21

Tardive dystonia: four case histories. Yadalam KG, et al. **J Clin Psychiatry** 1990 Jan;51(1):17–20

Effects of buspirone in seven schizophrenic subjects. Brody D, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):68–9

Lithium-associated tardive dyskinesia [letter] Sternbach H, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):143–4

Safety of amoxapine [letter; comment] Devarajan S. **Lancet** 1989 Dec 16;2(8677):1455 Comment on: Lancet 1989 Sep 30;2(8666):808.

Sulpiride-induced tardive dystonia. Miller LG, et al. **Mov Disord** 1990;5(1):83–4

Motor complications associated with chronic levodopa therapy in Parkinson's disease. Obeso JA, et al. **Neurology** 1989 Nov;39(11 Suppl 2):11–9 (66 ref.)

Neuroleptic modulation of oral dyskinesias induced in snakes by Xenopus skin mucus. Barthalmus GT. **Pharmacol Biochem Behav** 1989 Sep;34(1):95–9

Lifetime antipsychotic-drug exposure, dyskinesia and related movement disorders in the developmentally disabled. Stone RK, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):759–63

'Tardive' dyskinesia: etiological and therapeutic aspects. Awouters F, et al. **Pharmacopsychiatry** 1990 Jan;23(1):33–7 (40 ref.)

Cognitive impairment, clinical course and treatment history in out-patients with bipolar affective disorder: relationship to tardive dyskinesia. Waddington JL, et al. **Psychol Med** 1989 Nov;19(4):897–902

Tardive dystonia in Chinese. Chiu HF, et al. **Singapore Med J** 1989 Oct;30(5):441–3

Tardive dyskinesia in outpatients on depot phenothiazine. Neehall J. **West Indian Med J** 1989 Dec;38(4):228–33

[Phenomenology and therapy of neuroleptic-induced akathisia—a review of the literature] Seidel M. **Fortschr Neurol Psychiatr** 1989 Nov;57(11):489–94 (95 ref.) (Eng. Abstr.) (Ger)

[Neuroleptic-induced akathisia] Fleischhacker WW, et al. **Nervenarzt** 1989 Dec;60(12):719–23 (43 ref.) (Ger)

[Depot neuroleptics in indications for tranquilizers:

administration forms and risk in neurologic practice] Schmidt LG. **Verh Dtsch Ges Inn Med** 1989;95:713–6 (Ger)

[A case of involuntary movements probably produced by low doses of phenytoin intoxication] Yamamoto K, et al. **Rinsho Shinkeigaku** 1990 May;30(5):571–3 (Eng. Abstr.) (Jpn)

[Amiodarone neurotoxicity. Report of 3 cases] Maciel Júnior JA. **Arq Bras Cardiol** 1989 Aug;53(2):125–7 (Eng. Abstr.) (Por)

[Motor complications in Parkinson disease, in patients undergoing levodopa therapy (editorial; comment)] García de Yébenes J, et al. **Neurologia** 1989 Jan–Feb;4(1):1–3 Comment on: Neurologia 1989 Jan–Feb;4(1):4–11. (Spa)

[Motor complications in patients with Parkinson disease treated with levodopa (see comments)] Luquin MR, et al. **Neurologia** 1989 Jan–Feb;4(1):4–11 (Eng. Abstr.) Comment in: Neurologia 1989 Jan–Feb;4(1):1–3. (Spa)

GENETICS

Familial psychosis and vulnerability to tardive dyskinesia. Youssef H, et al. **Int Clin Psychopharmacol** 1989 Oct; 4(4):323–8

IMMUNOLOGY

HLA antigens in tardive dyskinesia. Metzer WS, et al. **J Neuroimmunol** 1990 Feb;26(2):179–81

METABOLISM

Alterations in the metabolism of serotonin and dopamine in the central nervous system of mice displaying a persistent dyskinesia due to crotononitrile or 2-pentenenitrile. Tanii H, et al. **Arch Toxicol** 1990;64(3):231–6

Regional changes in brain 5-HT1A serotonin receptors in the rat model of persistent spasmodic dyskinesias induced by iminodipropionitrile. Przedborski S, et al. **Brain Res** 1989 Dec 18;504(2):311–4

Free radicals and tardive dyskinesia [letter; comment] Shriqui CL, et al. **Can J Psychiatry** 1990 Apr;35(3):282–4 Comment on: Can J Psychiatry 1989 Apr;34(3):211–20.

Treatment with P-chloroamphetamine enhances the development of neuroleptic-induced orofacial dyskinesias in the rat. Sandyk R, et al. **Int J Neurosci** 1989 Sep; 48(1–2):129–31

The relationship of serotonin metabolism and melatonin secretion to the pathophysiology of tardive dyskinesia. Sandyk R, et al. **Int J Neurosci** 1989 Sep;48(1–2):133–6

Melatonin, and opioid peptide interactions in tardive dyskinesia. Sandyk R. **Int J Neurosci** 1989 Oct; 48(3–4):317–20 (32 ref.)

Autoradiographic evidence of [3H]neurotensin binding changes in discrete regions of brain in the rat model of persistent spasmodic dyskinesia induced by iminodipropionitrile. Przedborski S, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):335–40

The protein synthesis inhibitor, anisomycin, causes exacerbation of the iminodipropionitrile-induced spasmodic dyskinetic syndrome in rats. Stennett R, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):1003–8

PATHOLOGY

Neurotransmitter and receptor alterations in the rat persistent dyskinesia model induced by iminodipropionitrile. Ogawa N, et al. **Eur Neurol** 1990;30 Suppl 1:31–40

Levodopa-induced dyskinesias in parkinsonian monkeys: relationship to extent of nigrostriatal damage. Schneider JS. **Pharmacol Biochem Behav** 1989 Sep;34(1):193–6

PHYSIOPATHOLOGY

First experience with the application of 7-methoxytacrine to psychiatric patients. Zapletálek M, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):305–6

Alcohol-induced poikilothermia, sleep and motor impairment: actions on brain of EGTA and verapamil. Paez X, et al. **Alcohol** 1989 Nov–Dec;6(6):489–98

Clinical differences between metoclopramide- and antipsychotic-induced tardive dyskinesias. Lang AE. **Can J Neurol Sci** 1990 May;17(2):137–9

A blinded study of the suppressibility of involuntary movements in Huntington's chorea, tardive dyskinesia, and L-dopa-induced chorea. Walters AS, et al. **Clin Neuropharmacol** 1990 Jun;13(3):236–40

Comparison of chronic administration of haloperidol and the atypical neuroleptics, clozapine and raclopride, in an animal model of tardive dyskinesia. See RE, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):175–86

Blink reflex in Parkinson's disease with levodopa-induced dyskinesia. Iriarte LM, et al. **Funct Neurol** 1989 Jul–Sep; 4(3):257–61

Schizophrenia, affective psychoses, and other disorders treated with neuroleptic drugs: the enigma of tardive dyskinesia, its neurobiological determinants, and the conflict of paradigms. Waddington JL. **Int Rev Neurobiol** 1989;31:297–353 (229 ref.)

Tardive dyskinesia presenting as gastrointestinal disorder. Goldberg RJ, et al. **J Clin Psychiatry** 1990 Jun;51(6):253–4

Restlessness of the arms as the principal manifestation of neuroleptic-induced akathisia [letter] Walters AS, et al. **J Neurol** 1989 Oct;236(7):435

A potential mechanism underlying the voluntary suppression of tardive dyskinesia. Caligiuri MP, et al. **J Psychiatr Res** 1989;23(3–4):257–66

A hypothesis on the pathophysiological mechanisms that underlie levodopa- or dopamine agonist-induced dyskinesia in Parkinson's disease: implications for future strategies in treatment. Crossman AR. **Mov Disord** 1990; 5(2):100–8 (61 ref.)

Pharmacokinetic and pharmacodynamic considerations in management of motor response fluctuations in Parkinson's disease. Cedarbaum JM. **Neurol Clin** 1990 Feb;8(1):31–49 (78 ref.)

Levodopa-induced dyskinesia: review, observations, and speculations. Nutt JG. **Neurology** 1990 Feb;40(2):340–5 (73 ref.)

Instrumental assessment of lingual motor instability in tardive dyskinesia. Caligiuri MP, et al. **Neuropsychopharmacology** 1989 Dec;2(4):309–12

Electrophysiological study of dyskinesia produced by microinjection of picrotoxin into the striatum of the rat. Muramatsu S, et al. **Neurosci Res** 1990 Feb;7(4):369–80

Anatomically distinct output channels of the caudate nucleus and orofacial dyskinesia: critical role of the subcommissural part of the globus pallidus in oral dyskinesia. Cools AR, et al. **Neuroscience** 1989;33(3):535–42

Drug-induced neurological disorders. Dickey W, et al. **Prog Neurobiol** 1990;34(4):331–42 (143 ref.)

Can the supersensitivity of rodents to dopamine be regarded as a model of tardive dyskinesia? Wolfarth S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989; 13(6):799–840 (290 ref.)

Clozapine: neuroleptic-induced EPS and tardive dyskinesia. Casey DE. **Psychopharmacology (Berl)** 1989;99 Suppl:S47–53 (51 ref.)

Clozapine pharmacology and tardive dyskinesia. Lieberman J, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S54–9

Intranigral infusion of enkephalins elicits dyskinetic biting in rats. Liminga U, et al. **Psychopharmacology (Berl)** 1989; 99(3):299–303

Efficacy and adverse effects of clozapine in the treatment of schizophrenia and tardive dyskinesia—a retrospective study of 387 patients. Naber D, et al. **Psychopharmacology (Berl)** 1989;99 Suppl:S73–6

Intermittent and continuous haloperidol regimens produce different types of oral dyskinesias in rats. See RE, et al. **Psychopharmacology (Berl)** 1990;100(3):404–12

Spontaneous orofacial movements induced in rodents by very long-term neuroleptic drug administration: phenomenology, pathophysiology and putative relationship to tardive dyskinesia. Waddington JL. **Psychopharmacology (Berl)** 1990;101(4):431–47 (81 ref.)

PREVENTION & CONTROL

CCK-8S inhibits L-dopa-induced dyskinesias in parkinsonian squirrel monkeys. Boyce S, et al. **Neurology** 1990 Apr;40(4):717–8

PSYCHOLOGY

Subjective awareness of abnormal involuntary movements in chronic schizophrenic patients. Caracci G, et al. **Am J Psychiatry** 1990 Mar;147(3):295–8

The course of tardive dyskinesia in patients on long-term neuroleptics. Bergen JA, et al. **Br J Psychiatry** 1989 Apr; 154:523–8

Depression-dependent exacerbation of tardive dyskinesia [see comments] Sachdev PS. **Br J Psychiatry** 1989 Aug; 155:253–5 Comment in: Br J Psychiatry 1989 Nov;155:716–7.

Negative symptoms, tardive dyskinesia and depression in chronic schizophrenia. Barnes TR, et al. **Br J Psychiatry Suppl** 1989 Nov;(7):99–103

Characterisation of dyskinesias induced by L-dopa in MPTP-treated squirrel monkeys. Boyce S, et al. **Psychopharmacology (Berl)** 1990;102(1):21–7

Methylazoxymethanol (MAM)-induced brain lesion and oral dyskinesia in rats. Johansson P. **Psychopharmacology (Berl)** 1990;100(1):72–6

RADIONUCLIDE IMAGING

Striatal binding of 11C-NMSP studied with positron emission tomography in patients with persistent tardive dyskinesia: no evidence for altered dopamine D2 receptor binding. Andersson U, et al. **J Neural Transm Gen Sect** 1990; 79(3):215–26

Striatal dopamine D2 receptors in tardive dyskinesia: PET study. Blin J, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov;52(11):1248–52

THERAPY

A treatment for tardive dyskinesia in a complete denture patient. A case report. Tublin LM. **N Y State Dent J** 1989 Dec;55(10):30

DYSKINESIA, TARDIVE see **DYSKINESIA, DRUG-INDUCED**

DYSLEXIA

Diet and dyslexia [letter; comment] Wesson MD, et al. **J Am Optom Assoc** 1989 Nov;60(11):820–1 Comment on: J Am Optom Assoc 1989 Jan;60(1):10–3.

Dyslexia [letter; comment] **JAMA** 1989 Dec 15;262(23):3270 Comment on: JAMA 1989 Apr 21;261(15):2236–9.

A pediatrician's view [editorial] Hoekelman RA. **Pediatr Ann** 1990 May;19(5):287–8

CLASSIFICATION

Optometry's role in reading disabilities: resolving the controversy. Christenson GN, et al. **J Am Optom Assoc** 1990 May;61(5):363–72 (85 ref.)

COMPLICATIONS

Comorbidity of ADHD and reading disability among clinic-referred children. August GJ, et al. **J Abnorm Child Psychol** 1990 Feb;18(1):29–45

A study of perceptual and verbal skills of disabled readers in grades 4, 5 and 6. Solan HA, et al. **J Am Optom Assoc** 1990 Aug;61(8):628–34

The timing of syllable repetitions in developmental dyslexia. Wolff PH, et al. **J Speech Hear Res** 1990 Jun;33(2):281–9

DIAGNOSIS

Jordan Left-Right Reversal Test: an analysis of visual reversals in children and significance for reading problems. Jordan BT, et al. **Child Psychiatry Hum Dev** 1990 Fall; 21(1):65–73

Detection of young children in need of reading help. Evaluation of specific reading disability formulas. Shapiro BK, et al. **Clin Pediatr (Phila)** 1990 Apr;29(4):206–13

Optometry and literacy [editorial] Bartlett JD. **J Am Optom Assoc** 1990 Feb;61(2):82

Neuropsychological divergence of high-level autism and severe dyslexia. Rumsey JM, et al. **J Autism Dev Disord** 1990 Jun;20(2):155–68

EPIDEMIOLOGY

Prevalence of reading disability in boys and girls. Results of the Connecticut Longitudinal Study. Shaywitz SE, et al. **JAMA** 1990 Aug 22–29;264(8):998–1002

Specific reading disability in Egyptian children. Clinical picture, diagnosis and prognosis. Farrag AK, et al. **Neuroepidemiology** 1990;9(1):50–6

ETIOLOGY

Development of children with early language delay. Scarborough HS, et al. **J Speech Hear Res** 1990 Mar; 33(1):70–83

[Dyslexia: a continuing developmental approach] Høien T. **Psychiatr Enfant** 1989;32(2):617–38 (0 ref.) (Eng. Abstr.) (Fre)

[The "Ring Test" for evaluating eye dominance] Safra D. **Klin Monatsbl Augenheilkd** 1989 Jul;195(1):35–6 (Eng. Abstr.) (Ger)

GENETICS

Familial dyslexia: use of genetic linkage data to define subtypes. Smith SD, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar;29(2):204–13

The genetics of dyslexia. Pennington BF. **J Child Psychol Psychiatry** 1990 Jan;31(2):193–201 (48 ref.)

A familial study of severe phonological disorders. Lewis BA, et al. **J Speech Hear Res** 1989 Dec;32(4):713–24

PATHOLOGY

Brain morphology in developmental dyslexia and attention deficit disorder/hyperactivity. Hynd GW, et al. **Arch Neurol** 1990 Aug;47(8):919–26

Dyslexia and brain morphology. Hynd GW, et al. **Psychol Bull** 1989 Nov;106(3):447–82 (175 ref.)

PHYSIOPATHOLOGY

Patterns of task-related slow brain potentials in dyslexia. Landwehrmeyer B, et al. **Arch Neurol** 1990 Jul;47(7):791–7

On the origin of visual dyslexia. Dunlop DB. **Aust J Ophthalmol** 1981 Aug;9(3):193–8

Visual perception and reading disabilities. English KP. **Aust J Ophthalmol** 1981 Aug;9(3):181–4

Cognitive processing deficits in reading disabilities: a prefrontal cortical hypothesis. Kelly MS, et al. **Brain Cogn** 1989 Nov;11(2):275–93

A neurophysiological study of children with reading, writing and spelling difficulties. Pinkerton F, et al. **Dev Med Child Neurol** 1989 Oct;31(5):569–81

Hemispheric ity and its validity for education, vocation, and cognitive style. Gordon HW. **Int J Neurosci** 1989 Jul; 47(1–2):47–55

Visual function and reading disability: an optometric viewpoint. Garzia RP, et al. **J Am Optom Assoc** 1990 Feb; 61(2):88–97 (130 ref.)

Experimental evidence for a transient system deficit in specific reading disability. Lovegrove WJ, et al. **J Am Optom Assoc** 1990 Feb;61(2):137–46 (38 ref.)

Perceptual consequences of a temporal processing deficit in reading disabled children. Williams MC, et al. **J Am Optom Assoc** 1990 Feb;61(2):111–21

Diet and dyslexia [letter; comment] Worrall RS, et al. **J Am Optom Assoc** 1990 Jan;61(1):18–21 Comment on: J Am Optom Assoc 1989 Jan;60(1):10–3.

Undiagnosed dyslexia in physicians [letter] Burd L. **Milit Med** 1990 Apr;155(4):A19

Brain plasticity as a basis for recovery of function in humans.

Bach-y-Rita P. **Neuropsychologia** 1990;28(6):547–54
Reaction time measures of interhemispheric transfer time in reading disabled and normal children. Davidson RJ, et al. **Neuropsychologia** 1990;28(5):471–85
Neurophysiological heterogeneity and the definition of dyslexia: preliminary evidence for plasticity. Duffy FH, et al. **Neuropsychologia** 1990;28(6):555–71
Review of ophthalmic factors in dyslexia. Evans BJ, et al. **Ophthalmic Physiol Opt** 1990 Apr;10(2):123–32 (97 ref.)
Reduced vergence response velocities in dyslexics: a preliminary report. Hung GK. **Ophthalmic Physiol Opt** 1989 Oct;9(4):420–3
Binocular advantage and visual processing in dyslexic and control children as measured by visual evoked potentials [published erratum appears in Optom Vis Sci 1990 Apr;67(4):290] Solan HA, et al. **Optom Vis Sci** 1990 Feb; 67(2):105–10
Visual correlates of dyslexia and related learning disabilities. Beauchamp G. **Pediatr Ann** 1990 May;19(5):334–41 (39 ref.)
Topographic brain mapping and evaluation of dyslexic children. Flynn JM, et al. **Psychiatry Res** 1989 Sep; 29(3):407–8
Event-related potentials, spatial orienting, and reading disabilities. Harter MR, et al. **Psychophysiology** 1989 Jul; 26(4):404–21
[Brain mapping studies in dyslexia] García de León M, et al. **Arch Neurobiol (Madr)** 1989 Sep–Oct;52(5):228–33 (Eng. Abstr.) **(Spa)**
[Handedness, cerebral dysfunction and dyslexia] Céspedes A, et al. **Rev Chil Pediatr** 1989 Jan–Feb;60(1):18–23 (Eng. Abstr.) **(Spa)**
[Contingent negative variation in normal and dyslexic children] Chayo-Dichy R, et al. **Rev Invest Clin** 1989 Jul–Sep;41(3):227–33 (30 ref.) (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Abstract letter identities and developmental dyslexia. Bigsby P. **Br J Psychol** 1990 May;81 (Pt 2):227–63
Perceptual and conceptual mechanisms in neglect dyslexia. Two contrasting case studies. Behrmann M, et al. **Brain** 1990 Aug;113 (Pt 4):1163–83
Reading and a balanced polymorphism for laterality and ability. Annett M, et al. **J Child Psychol Psychiatry** 1990 May;31(4):511–29
Syntactic competence and reading ability in children. Bentin S, et al. **J Exp Child Psychol** 1990 Feb;49(1):147–72
Phonological awareness and spelling in normal children and dyslexics: the case of initial consonant clusters. Bruck M, et al. **J Exp Child Psychol** 1990 Aug;50(1):156–78
A developmental, interactive activation model of the word superiority effect. Chase CH, et al. **J Exp Child Psychol** 1990 Jun;49(3):448–87
The rule learning behavior of reading disabled and normal children as a function of task characteristics and instruction. Fletcher CM, et al. **J Exp Child Psychol** 1990 Aug; 50(1):39–58
Speech perception and the discrimination of brief auditory cues in reading disabled children. Reed MA. **J Exp Child Psychol** 1989 Oct;48(2):270–92
Comprehension of temporal terms by good and poor readers. Macaruso P, et al. **Lang Speech** 1989 Jan–Mar;32 (Pt 1):45–67
Do children with a specific reading disability have a general serial-ordering deficit? Gould JH, et al. **Neuropsychologia** 1990;28(3):271–8
Directed attention dichotic listening in reading disabled children: a test of four models of maladaptive lateralization. Kershner JR, et al. **Neuropsychologia** 1990;28(2):181–98
Verbal and nonverbal auditory processing among left- and right-handed good readers and reading-disabled children. Obrzut JE, et al. **Neuropsychologia** 1989;27(11–12):1357–71
Precursors of reading delay: neurodevelopmental milestones. Shapiro BK, et al. **Pediatrics** 1990 Mar;85(3 Pt 2):416–20
Spatial discrimination in children with poor vergence control. Riddell PM, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):707–18
Lexical capture: a developmental disorder of reading and spelling. Funnell E, et al. **Q J Exp Psychol [A]** 1989 Aug; 41(3):471–87
[What am I? A dyslexic!] Plaisant O. **Ann Med Psychol (Paris)** 1989 Mar–Apr;147(2):205–9 (18 ref.) **(Fre)**

THERAPY

The assessment and management of dyslexia. Pyne R. **Aust J Ophthalmol** 1981 Aug;9(3):189–91
[A case of a non-reading child. Application of the aphasiologic methods. Results] Gelbert G. **Psychiatr Enfant** 1989;32(1):123–60 (10 ref.) (Eng. Abstr.) **(Fre)**

DYSLEXIA, ACQUIRED

CLASSIFICATION

[Alexia] Chen H. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Feb; 23(1):53–6 (25 ref.) **(Chi)**

DIAGNOSIS

Reading assessment post head injury: how valid is it? Rand MB, et al. **Brain Inj** 1990 Apr–Jun;4(2):155–60
A comment on Hillis and Caramazza's (1989) paper "The graphemic buffer and attentional mechanisms". Baxter DM, et al. **Brain Lang** 1990 May;38(4):615–6
Verb processing during sentence comprehension in aphasia. Shapiro LP, et al. **Brain Lang** 1990 Jan;38(1):21–47

ETIOLOGY

Troubled letters but not numbers. Domain specific cognitive impairments following focal damage in frontal cortex. Anderson SW, et al. **Brain** 1990 Jun;113 (Pt 3):749–66
[Reading and writing deficit in cases of localized infarction of the left anterior thalamus] Araki S, et al. **No To Shinkei** 1990 Jan;42(1):65–72 (Eng. Abstr.) **(Jpn)**
[A case of multiple sclerosis with pure alexia] Shiota J, et al. **No To Shinkei** 1989 Oct;41(10):961–4 (Eng. Abstr.) **(Jpn)**
[Dyslexia of digits and numbers in multiple sclerosis] Cendrowski W. **Neurol Neurochir Pol** 1989 May–Jun; 23(3):247–9 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

Left occipital lobectomy and the preangular anatomy of reading. Greenblatt SH. **Brain Lang** 1990 May;38(4):576–95

PSYCHOLOGY

Impaired activation of the phonological lexicon: effects upon oral reading. Friedman RB, et al. **Brain Lang** 1990 Feb; 38(2):278–97
Semantic errors in a deep dyslexic. Laine M, et al. **Brain Lang** 1990 Feb;38(2):207–14
From letters to words: procedures for word recognition in letter-by-letter reading. Rapcsak SZ, et al. **Brain Lang** 1990 May;38(4):504–14
Cross-modality word matching in letter-by-letter readers. Katz RB. **Cortex** 1990 Mar;26(1):65–76

DYSLEXIA, CONGENITAL see **DYSLEXIA**

DYSLEXIA, DEVELOPMENTAL see **DYSLEXIA**

DYSMENORRHEA

Dysmenorrhea. Dawood MY. **Clin Obstet Gynecol** 1990 Mar; 33(1):168–78 (37 ref.)
Boarding the train. **Lancet** 1990 Sep 22;336(8717):720–1 (15 ref.)

COMPLICATIONS

The correlation between dysmenorrhea and the pain experienced during laser ablation of a cervical lesion. Johnson N, et al. **Gynecol Oncol** 1990 Feb;36(2):215–6

DRUG THERAPY

The influence of a combined oral contraceptive on uterine activity and reactivity to agonists in primary dysmenorrhea. Hauksson A, et al. **Acta Obstet Gynecol Scand** 1989; 68(1):31–4
A double-blind placebo-controlled crossover study of mebeverine and mefenamic acid in the treatment of primary dysmenorrhoea. Langrick AF, et al. **Br J Clin Pract** 1989 Sep;43(9):317–21
Comparison of ketoprofen and naproxen in the treatment of dysmenorrhoea, with special regard to the time of onset of pain relief. Akerlund M, et al. **Curr Med Res Opin** 1989; 11(8):485–90
Long-term use of the low dose LHRH analogue combined with monthly medroxy-progesterone administration. Lemay A, et al. **Horm Res** 1989;32 Suppl 1:141–5
Selective effect of diclofenac in the treatment of osteoarthritis versus dysmenorrhea. Miller LG, et al. **J Clin Pharmacol** 1990 Apr;30(4):378–9
[Cold dysmenorrhea with blood stagnation treated with zhuyu wengong decoction] Wu R, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):455–7, 451 (Eng. Abstr.) **(Chi)**
[Therapeutic effects of magnesium in dysmenorrhea] Fontana-Klaiber H, et al. **Schweiz Rundsch Med Prax** 1990 Apr 17;79(16):491–4 (Eng. Abstr.) **(Ger)**
[Pain relief in dysmenorrhea can be achieved more rapidly with ketoprofen than with naproxen] Strömberg P, et al. **Lakartidningen** 1990 Jan 24;87(4):191–2 **(Swe)**

EPIDEMIOLOGY

Factors influencing the prevalence and severity of dysmenorrhoea in young women. Sundell G, et al. **Br J Obstet Gynaecol** 1990 Jul;97(7):588–94
A study of the menstrual patterns of adolescents in Ile-Ife, Nigeria. Thomas KD, et al. **Int J Gynaecol Obstet** 1990 Sep;33(1):31–4

ETIOLOGY

Primary female syndromes: an update. Yankauskas E. **N Y State J Med** 1990 Jun;90(6):295–302 (51 ref.)
[Dysmenorrhea in adolescents] Zahradnik HP, et al. **Arch Gynecol Obstet** 1989;245(1–4):14–8 **(Ger)**

METABOLISM

Prostaglandins: PGF2 alpha, PGE2, 6-keto-PGF1 alpha and TXB2 serum levels in dysmenorrheic adolescents before, during and after treatment with oral contraceptives. Creatsas G, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Sep;36(3):292–8

PHYSIOPATHOLOGY

Heavy, painful periods. Rees MC. **Baillieres Clin Obstet Gynaecol** 1989 Jun;3(2):341–56 (81 ref.)

PSYCHOLOGY

Reactions of dysmenorrheic and nondysmenorrheic women to experimentally induced pain throughout the menstrual cycle. Amodei N, et al. **J Behav Med** 1989 Aug; 12(4):373–85
The relationship among exercise, stress, and primary dysmenorrhea. Metheny WP, et al. **J Behav Med** 1989 Dec; 12(6):569–86

SURGERY

Laparoscopic presacral neurectomy. Results of the first 25 cases. Perez JJ. **J Reprod Med** 1990 Jun;35(6):625–30
Hysterectomy for chronic pelvic pain of presumed uterine etiology [letter] Rulin MC. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):478
The efficacy of presacral neurectomy for the relief of midline dysmenorrhea. Tjaden B, et al. **Obstet Gynecol** 1990 Jul; 76(1):89–91

THERAPY

A chiropractic approach to the treatment of dysmenorrhea. Liebl NA, et al. **J Manipulative Physiol Ther** 1990 Feb; 13(2):101–6
Treatment of 32 cases of dysmenorrhea by puncturing hegu and sanyinjiao acupoints. Zhan C. **J Tradit Chin Med** 1990 Mar;10(1):33–5
Personal experience on the treatment of dysmenorrhea. Zhou MS. **J Tradit Chin Med** 1989 Dec;9(4):259–65
Transcutaneous electrical nerve stimulation (TENS) for the treatment of primary dysmenorrhea: a randomized crossover comparison with placebo TENS and ibuprofen. Dawood MY, et al. **Obstet Gynecol** 1990 Apr;75(4):656–60

DYSMYELOPOIETIC SYNDROMES see **MYELODYSPLASTIC SYNDROMES**

DYSOSTOSES

DIAGNOSIS

Picture of the month. Acrodysostosis. Butler MG, et al. **Am J Dis Child** 1990 May;144(5):577–8
Spondylocostal dysostosis: dominant type. Lorenz P, et al. **Am J Med Genet** 1990 Feb;35(2):219–21

PATHOLOGY

[Pyknodysostosis. An unusual form of osteopetrosis] Talbi M, et al. **Rev Stomatol Chir Maxillofac** 1990;91(4):299–303 (Eng. Abstr.) **(Fre)**

DYSOSTOSIS, CLEIDOCRANIAL see **CLEIDOCRANIAL DYSPLASIA**

DYSOSTOSIS, CRANIOFACIAL see **CRANIOFACIAL DYSOSTOSIS**

DYSPAREUNIA

DIAGNOSIS

[Vaginismus and dyspareunia; the Dutch viewpoint (letter)] Kremer J. **Ned Tijdschr Geneeskd** 1989 Oct 21;133(42):2091 **(Dut)**

EPIDEMIOLOGY

The prevalence of dyspareunia. Glatt AE, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):433–6

ETIOLOGY

Dyspareunia associated with the use of glycerol-impregnated catgut to repair perineal trauma. Report of a 3-year follow-up study. Grant A, et al. **Br J Obstet Gynaecol** 1989 Jun;96(6):741–3
Focal vulvitis and localised dyspareunia. Oates JK. **Genitourin Med** 1990 Feb;66(1):28–30 (9 ref.)

DYSPEPSIA

Dyspepsia in general practice [see comments] Brown C, et al. **BMJ** 1990 Mar 31;300(6728):829–30 (12 ref.) Comment in: BMJ 1990 Apr 28;300(6732):1137.
[Functional gastric dyspepsia] Jirásek V. **Zdrav Aktual** 1983; 204:93–9 **(Cze)**

CLASSIFICATION

[Irritable stomach, clinical aspects and causes] Rösch W. **Z Gastroenterol** 1990 Apr;28 Suppl 1:10–2; discussion 18–20 **(Ger)**

COMPLICATIONS

Is there an abnormal fasting duodenogastric reflux in nonulcer dyspepsia? Bost R, et al. **Dig Dis Sci** 1990 Feb; 35(2):193–9

Campylobacter associated gastritis in patients with non–ulcer dyspepsia: a double blind placebo controlled trial with colloidal bismuth subcitrate [see comments] Loffeld RJ, et al. **Gut** 1989 Sep;30(9):1206–12 Comment in: Gut 1990 Apr;31(4):481–2.

[Incidence of chronic gastritis in young patients with functional dyspepsia] Sorf M, et al. **Vnitr Lek** 1989 Oct; 35(10):992–7 (Eng. Abstr.) (Slo)

DIAGNOSIS

Endoscopy in dyspeptic patients: is gastric mucosal biopsy useful? Vaira D, et al. **Am J Gastroenterol** 1990 Jun; 85(6):701–4

A questionnaire for functional bowel disorders. Drossman DA. **Ann Intern Med** 1989 Oct 15;111(8):627–9

A patient questionnaire to identify bowel disease. Talley NJ, et al. **Ann Intern Med** 1989 Oct 15;111(8):671–4

A systematic approach to the initial evaluation of dyspepsia [editorial] Kahn KL. **J Gen Intern Med** 1989 Sep–Oct; 4(5):461–2

Discriminant value of dyspeptic symptoms in peptic ulcer and non–ulcer dyspepsia. Kudva MV, et al. **Med J Malaysia** 1989 Sep;44(3):236–42

A man with epigastric pain. Moreno C, et al. **Practitioner** 1989 Dec 15;233(1480):1591–2, 1594

The predictive value of history in dyspepsia. Johannessen T, et al. **Scand J Gastroenterol** 1990 Jul;25(7):689–97

[Roentgen studies and endoscopy in dyspepsia] van Voorthuisen AE. **Ned Tijdschr Geneeskd** 1990 Feb 17; 134(7):319–20 (Dut)

[13C–urea breath test as a non–invasive method for the detection of Helicobacter (Campylobacter) pylori] Cooreman M, et al. **Dtsch Med Wochenschr** 1990 Mar 9; 115(10):367–71 (Eng. Abstr.) (Ger)

[Value of the diagnosis of premorbid conditions of the digestive system in the promotion of a healthy life style] Mizin VT. **Gig Sanit** 1989 Sep;(9):34–7 (Rus)

[Complaints related to digestive organs in practically healthy persons] Udod VM, et al. **Vestn Khir** 1990 Mar;144(3):20–3 (Eng. Abstr.) (Rus)

DRUG THERAPY

Effects of sucralfate and sulglycotide treatment on active gastritis and Helicobacter pylori colonization of the gastric mucosa in non–ulcer dyspepsia patients. Barbara L, et al. **Am J Gastroenterol** 1990 Sep;85(9):1109–13

The emergency department treatment of dyspepsia with antacids and oral lidocaine. Welling LR, et al. **Ann Emerg Med** 1990 Jul;19(7):785–8

Chewable cimetidine versus chewable antacid in dyspepsia: which provides faster pain relief? Parr SN. **Curr Med Res Opin** 1989;11(9):557–66

Cisapride and gastric emptying of a solid meal in dyspeptic diabetics without autonomic neuropathy and in healthy volunteers. Brogna A, et al. **Eur J Clin Pharmacol** 1989; 37(4):411–3

Effect of colloidal bismuth subcitrate on symptoms and gastric histology in non–ulcer dyspepsia. A double blind placebo controlled study. Kang JY, et al. **Gut** 1990 Apr; 31(4):476–80

Metronidazole in acid peptic disease [letter] Bhatia RS, et al. **J Assoc Physicians India** 1990 Apr;38(4):309

Can gastritis symptoms be evaluated in clinical trials? An overview of treatment of gastritis, nonulcer dyspepsia and Campylobacter–associated gastritis. Veldhuyzen van Zanten SJ, et al. **J Clin Gastroenterol** 1989 Oct; 11(5):496–501 (40 ref.)

Pirenzepine in non–ulcer dyspepsia: a double–blind multicentre trial. Smith PM, et al. **J Int Med Res** 1990 Jan–Feb;18(1):16–20

Bismuth and dyspepsia. **Lancet** 1990 Aug 25;336(8713):472–3 (10 ref.)

Test for H2–antagonist response in non–ulcer dyspepsia [letter] Karnad DR, et al. **Lancet** 1990 Mar 17; 335(8690):657–8

The risks and benefits of an Rx–to–OTC switch. The case of over–the–counter H2–blockers. Oster G, et al. **Med Care** 1990 Sep;28(9):834–52

Recurrence of duodenal ulcer and Campylobacter pylori infection after eradication. Borody TJ, et al. **Med J Aust** 1989 Oct 16;151(8):431–5

Effect of pancreatic enzymes in non–ulcer dyspepsia. A pilot study. Kleveland PM, et al. **Scand J Gastroenterol** 1990 Mar;25(3):298–301

Controlled clinical trial with sucralfate in the treatment of macroscopic gastritis. Skoubo–Kristensen E, et al. **Scand J Gastroenterol** 1989 Aug;24(6):716–20

Campylobacter pylori and non–ulcer dyspepsia. 1. The final results of a double–blind multicentre trial for treatment with pirenzepine in Italy. Gad A, et al. **Scand J Gastroenterol Suppl** 1989;167:39–43

The effects of cisapride on antroduodenal co–ordination and gastric emptying. Johnson AG. **Scand J Gastroenterol Suppl** 1989;165:36–43 (19 ref.)

Efficacy of cisapride in the treatment of epigastric pain and concomitant symptoms in non–ulcer dyspepsia. Rösch W. **Scand J Gastroenterol Suppl** 1989;165:54–8 (14 ref.)

Use of peripheral dopamine antagonist (Motilium) in the treatment of dyspeptic complaints of different origin and in nausea, vomiting. Sásdi A. **Ther Hung** 1989;37(3):172–5

Dose–finding of cisapride in non–ulcer dyspepsia. Verlinden M. **Z Gastroenterol** 1990 Apr;28 Suppl 1:31–5; discussion 72–3 (39 ref.)

[Dyspepsia: which treatment to choose? (letter)] Dobrilla G, et al. **Gastroenterol Clin Biol** 1990;14(1):107 (Fre)

[Encouragement for the tired stomach. Cisapride, a specific pro–kinetic drug for upset stomach] **Fortschr Med** 1990;108 Suppl 87:7–12 (Ger)

[The typical patient with disorder of digestive motility (interview)] Demling L. **Fortschr Med** 1990;108 Suppl 87:17–9 (Ger)

[A drive substance for the motor in digestion. Introduction] Demling L. **Fortschr Med** 1990;108 Suppl 87:4 (Ger)

[Efficacy of a bismuth combination preparation. Efficacy in the treatment of chronic active gastritis and non–ulcerous dyspepsia] Malfertheiner P, et al. **Fortschr Med** 1990 Jul 10;108(20):402–6 (Eng. Abstr.) (Ger)

[Functional upper abdominal pain in Campylobacter–associated gastritis: does the patient profit from bismuth therapy?] Koop H. **Z Gastroenterol** 1989 Nov; 27(11):701–2 (Ger)

[Cisapride for the treatment of irritable stomach—results of 2 multicenter studies] Rösch W. **Z Gastroenterol** 1990 Apr; 28 Suppl 1:36–8; discussion 45–7 (Ger)

[Therapy of non–ulcer dyspepsia] Cortese I, et al. **Clin Ter** 1990 Apr 30;133(2):103–7 (26 ref.) (Eng. Abstr.) (Ita)

[Effect of clebopride on gastric emptying studied using a physiologic meal marked with Tc 99m colloid in subjects with non–ulcer dyspepsia] Costa R, et al. **Clin Ter** 1990 Jan 31;132(2):101–4 (Eng. Abstr.) (Ita)

EPIDEMIOLOGY

Dyspepsia in coalminers and the general population: a comparative study. Harrison JD, et al. **Br J Ind Med** 1989 Jun;46(6):428–9

Dyspepsia in England and Scotland. Jones RH, et al. **Gut** 1990 Apr;31(4):401–5

Campylobacter pylori and non–ulcer dyspepsia. 2. A prospective study in a Swedish population. Gad A, et al. **Scand J Gastroenterol Suppl** 1989;167:44–8

ETHNOLOGY

Helicobacter pylori and gastritis in patients with peptic ulcer and non–ulcer dyspepsia: ethnic differences in Singapore. Kang JY, et al. **Gut** 1990 Aug;31(8):850–3

ETIOLOGY

Dyspepsia in general practice [letter; comment] Sampson MA, et al. **BMJ** 1990 Apr 28;300(6732):1137 Comment on: BMJ 1990 Mar 31;300(6728):829–30.

Effect of non–steroidal anti–inflammatory drugs on dyspeptic symptoms. Shallcross TM, et al. **BMJ** 1990 Feb 10; 300(6721):368–9

Dyspepsia in general practice [letter] Shorvon PJ. **BMJ** 1990 Jul 7;301(6742):46

Use of endoscopy in patients with dyspepsia [letter; comment] Upadhyay R, et al. **BMJ** 1989 Sep 2;299(6699):621–2 Comment on: BMJ 1989 Jul 22;299(6693):237.

The influence of cholecystectomy on the duodenogastric reflux of bile. Hubens A, et al. **Hepatogastroenterology** 1989 Oct;36(5):384–6

Campylobacter pylori. An advance in understanding of dyspepsia and gastritis. Colin–Jones DG. **J Clin Gastroenterol** 1989;11 Suppl 1:S39–42

Hunger pain: a poor indicator of peptic ulcer in a developing country. León–Barúa R, et al. **J Clin Gastroenterol** 1989 Dec;11(6):621–4

Lack of association between gastric emptying of solids and symptoms in nonulcer dyspepsia. Talley NJ, et al. **J Clin Gastroenterol** 1989 Dec;11(6):625–30

An unusual cause of dyspepsia [letter] Hill JH. **S Afr Med J** 1989 Dec 16;76(12):700

Dyspepsia in Ibadan. Olubuyide IO, et al. **Trop Geogr Med** 1989 Oct;41(4):337–40

[Dyspepsia without ulcers and Campylobacter–related gastritis] Loffeld RJ, et al. **Ned Tijdschr Geneeskd** 1989 Jul 29;133(30):1489–92 (54 ref.) (Dut)

[Hypotrophy and dyspepsia] Smiian IS. **Vopr Pitan** 1990 May–Jun;(3):69–72 (Rus)

[The etiologic role of enteroviruses in intestinal dyspepsia (a review of the literature)] Bondarenko VI, et al. **Vrach Delo** 1990 Mar;(3):1–5 (42 ref.) (Rus)

[Dyspepsia due to gastric cascade] Ličanin Z, et al. **Med Arh** 1989;43(2–3):163–5 (Scr)

[Diagnosis of Campylobacter pylori infection of the gastric mucosa: histologic and microbiologic aspects] Sainz S, et al. **Med Clin (Barc)** 1990 Apr 21;94(15):561–3 (Eng. Abstr.) (Spa)

METABOLISM

Gastric mucosal prostaglandin synthesis in the presence of Campylobacter pylori in patients with gastric ulcers and non–ulcer dyspepsia. Taha AS, et al. **Am J Gastroenterol** 1990 Jan;85(1):47–50

Dietary intakes and adipose tissue levels of linoleic acid in peptic ulcer disease. Kearney J, et al. **Br J Nutr** 1989 Nov; 62(3):699–706

Prostaglandin E2 and F2 alpha levels in the duodenal and antral mucosa of non–ulcer dyspeptic and duodenal ulcer patients. Parodi MC, et al. **Hepatogastroenterology** 1990 Apr;37(2):208–11

MICROBIOLOGY

Campylobacter pylori—a role in non–ulcer dyspepsia? Lambert JR, et al. **Scand J Gastroenterol Suppl** 1989; 160:7–13

Campylobacter pylori in dyspeptic subjects: a report from north India. Kochhar R, et al. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):135

[Significance of Campylobacter pylori in gastritis, non–ulcer dyspepsia and ulcer. A critical observation] Fritsch WP. **Med Klin** 1989 Aug 15;84(8):400–4 (61 ref.) (Ger)

PATHOLOGY

Quantitative histological study of mucosal inflammatory cell densities in endoscopic duodenal biopsy specimens from dyspeptic patients using computer linked image analysis. Collins JS, et al. **Gut** 1990 Aug;31(8):858–61

Duodenal bulb biopsy findings for patients with non–ulcer dyspepsia with or without Campylobacter pylori gastritis. Frierson HF Jr, et al. **Mod Pathol** 1990 May;3(3):271–6

PHYSIOPATHOLOGY

Gastric analysis (basal acid output) in nonulcer dyspepsia [letter; comment] Collen MJ. **Dig Dis Sci** 1990 Apr; 35(4):540–1 Comment on: Dig Dis Sci 1989 Aug;34(8):1272–6.

A controlled study of human resting gastric mucosal blood flow by endoscopic laser–Doppler flowmetry. Gana TJ, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):264–7

Longterm oral cisapride improves interdigestive antroduodenal motility in dyspeptic patients. Testoni PA, et al. **Gut** 1990 Mar;31(3):288–90

Duodenojejunal motor activity in patients with chronic dyspeptic symptoms. Bassotti G, et al. **J Clin Gastroenterol** 1990 Feb;12(1):17–21

Serotonin supersensitivity: the pathophysiologic basis of non–ulcer dyspepsia? A preliminary report of buspirone/prolactin responses. Dinan TG, et al. **Scand J Gastroenterol** 1990 May;25(5):541–4

[Does the syndrome of the feeble gastric mucosa barrier define a subgroup of dyspeptic patients? (letter)] Gignoux C, et al. **Gastroenterol Clin Biol** 1990;14(6–7):604–5 (Fre)

PSYCHOLOGY

Relation among personality and symptoms in nonulcer dyspepsia and the irritable bowel syndrome. Talley NJ, et al. **Gastroenterology** 1990 Aug;99(2):327–33

Psychological factors in dyspepsia of unknown cause: a comparison with peptic ulcer disease. Langeluddecke P, et al. **J Psychosom Res** 1990;34(2):215–22

Factors affecting the decision to consult with dyspepsia: comparison of consulters and non–consulters. Lydeard S, et al. **J R Coll Gen Pract** 1989 Dec;39(329):495–8

Psychosocial aspects of non–ulcer dyspepsia. Kok LP, et al. **Singapore Med J** 1989 Aug;30(4):346–9

[Treatment of the neurotic syndrome in intestinal pathology] Reshetova TV. **Sov Med** 1989;(10):103–4 (Rus)

RADIOGRAPHY

Diagnostic and therapeutic efficacy of barium meal examination: a prospective evaluation in general practice [see comments] Conry BG, et al. **BMJ** 1989 Dec 9; 299(6713):1443–5 Comment in: BMJ 1990 Jan 20;300(6718):193.

Is upper gastrointestinal radiography necessary in the initial management of uncomplicated dyspepsia? A randomized controlled trial comparing empiric antacid therapy plus patient reassurance with traditional care. Goodson JD, et al. **J Gen Intern Med** 1989 Sep–Oct;4(5):367–74

THERAPY

Randomized double blind study of Curcuma domestica Val. for dyspepsia. Thamlikitkul V, et al. **J Med Assoc Thai** 1989 Nov;72(11):613–20

How well do general practitioners manage dyspepsia? Warndorff DK, et al. **J R Coll Gen Pract** 1989 Dec; 39(329):499–502

Use of banana in non–ulcer dyspepsia [letter] Arora A, et al. **Lancet** 1990 Mar 10;335(8689):612–3

DYSPHAGIA see DEGLUTITION DISORDERS

DYSPHASIA see APHASIA

DYSPHONIA see VOICE DISORDERS

DYSPLASIA EPIPHYSIALIS PUNCTATA see CHONDRODYSPLASIA PUNCTATA

DYSPLASTIC NEVUS SYNDROME

Atypical mole syndrome. Kopf AW, et al. **J Am Acad Dermatol** 1990 Jan;22(1):117–8

An exchange of views regarding the dysplastic nevus

controversy. Clark WH Jr, et al. **Semin Dermatol** 1989 Dec; 8(4):229–50 (62 ref.)

[Dysplastic nevus—relation to malignant melanoma] Avinoach I, et al. **Harefuah** 1990 May 15;118(10):589–93 (34 ref.) **(Heb)**

COMPLICATIONS

[The number and distribution of nevus cell nevi in patients with malignant melanoma] Welkovich B, et al. **Hautarzt** 1989 Oct;40(10):630–5 (Eng. Abstr.) **(Ger)**

[Nevi are common—they should be treated accordingly] Beitner H, et al. **Lakartidningen** 1990 Apr 25;87(17):1461–4 (15 ref.) **(Swe)**

CONGENITAL

Origin of cutaneous melanoma in a congenital dysplastic nevus spilus. Rhodes AR, et al. **Arch Dermatol** 1990 Apr; 126(4):500–5

DIAGNOSIS

Dysplastic nevi and malignant melanoma. Crutcher WA, et al. **Am Fam Physician** 1990 Aug;42(2):372–85 (35 ref.)

Dysplastic naevi—an alternative view. Cook MG, et al. **Histopathology** 1990 Jan;16(1):29–35 (38 ref.)

Dysplastic naevi [letter; comment] Fox H. **Histopathology** 1990 Jan;16(1):105 Comment on: Histopathology 1989 Jul;15(1):103–8.

Diagnostic approaches to pigmented lesions. Lambert WC, et al. **J Cutan Pathol** 1989 Aug;16(4):177–9

Image analysis cytometry of dysplastic nevi. Fleming MG, et al. **J Invest Dermatol** 1990 Sep;95(3):287–91

Re: A. R. Rhodes, M. C. Mihm, and M. A. Weinstock. Dysplastic Melanocytic Nevi: a Reproducible Histologic Definition Emphasizing Cellular Morphology. Mod Pathol 2:306, 1989 [letter; comment] White WL. **Mod Pathol** 1990 Jan;3(1):99 Comment on: Mod Pathol 1989 Jul;2(4):306–19.

Diagnosis and management of dysplastic nevus syndrome and early melanoma. Devereux DF. **Oncology (Williston Park)** 1990 Jan;4(1):73–81; discussion 82–3 (31 ref.)

[Dysplastic nevus] Crickx B, et al. **Presse Med** 1990 Feb 17; 19(6):239–41 **(Fre)**

[Diagnosis of dysplastic nevus] Kerl H, et al. **Dtsch Med Wochenschr** 1990 Jul 13;115(28–29):1104–7 **(Ger)**

DRUG THERAPY

The effect of topical tretinoin on dysplastic nevi. A preliminary trial. Edwards L, et al. **Arch Dermatol** 1990 Apr;126(4):494–9

EPIDEMIOLOGY

Frequency of dysplastic nevi among nevomelanocytic lesions submitted for histopathologic examination. Time trends over a 37-year period. Barnhill RL, et al. **Arch Dermatol** 1990 Apr;126(4):463–5

Abnormal nevi, excess total nevi, and melanoma: an epidemiologic perspective. Roush GC. **Cancer Treat Res** 1988;43:85–100, 191–5 (82 ref.)

[Epidemiology of dysplastic nevus] Sander C, et al. **Hautarzt** 1989 Dec;40(12):758–60 (Eng. Abstr.) **(Ger)**

[Comment on the contribution by Ch. Sander, H. Tschochohei and M. Hagedorn: Epidemiology of dysplastic nevus (letter)] Schmoeckel C. **Hautarzt** 1990 Jul; 41(7):408–9 **(Ger)**

GENETICS

Evidence against the reported linkage of the cutaneous melanoma–dysplastic nevus syndrome locus to chromosome 1p36. Cannon-Albright LA, et al. **Am J Hum Genet** 1990 May;46(5):912–8

Mutation rate estimate in hereditary cutaneous malignant melanoma/dysplastic nevi [letter] [see comments] Bale SJ, et al. **Am J Med Genet** 1990 Feb;35(2):293–4 Comment in: Am J Med Genet 1990 Feb;35(2):295–6.

Pigmentary dysplasias, hypomelanosis of Ito, and genetic mosaicism. Flannery DB. **Am J Med Genet** 1990 Jan; 35(1):18–21 (28 ref.)

Reply: the dysplastic nevus "syndrome" is not a dichotomic, but a continuous phenotype [letter; comment] Traupe H, et al. **Am J Med Genet** 1990 Feb;35(2):295–6 Comment on: Am J Med Genet 1990 Feb;35(2):293–4.

Ultraviolet mutagenesis in a plasmid vector replicated in lymphoid cells from patient with the melanoma–prone disorder dysplastic nevus syndrome. Seetharam S, et al. **Cancer Res** 1989 Nov 1;49(21):5918–21

Dysplastic naevi in association with partial deletion of chromosome 11. McDonagh AJ, et al. **Clin Exp Dermatol** 1990 Jan;15(1):44–5

The phakomatoses as paracrine growth disorders (paracinopathies). Kousseff BG. **Clin Genet** 1990 Feb; 37(2):97–105

Dysplastic melanocytic nevi and cutaneous melanoma: markers of increased melanoma risk for affected persons and blood relatives. Albert LS, et al. **J Am Acad Dermatol** 1990 Jan;22(1):69–75

CHILD + ILVEN = PEN or PENCIL. Moss C, et al. **J Med Genet** 1990 Jun;27(6):390–1

Locus for susceptibility to melanoma on chromosome 1p [letter; comment] Gruis NA, et al. **N Engl J Med** 1990 Mar 22;322(12):853–4 Comment on: N Engl J Med 1989 May 25;320(21):1367–72.

Analysis of ras oncogenes in malignant melanoma and precursor lesions: correlation of point mutations with differentiation phenotype. Albino AP, et al. **Oncogene** 1989 Nov;4(11):1363–74

[CHILD syndrome in a mother and daughter] Happle R, et al. **Hautarzt** 1990 Feb;41(2):105–8 (Eng. Abstr.) **(Ger)**

[Phacomatosis pigmentovascularis interpreted as a phenomenon of twin spots] Happle R, et al. **Hautarzt** 1989 Nov;40(11):721–4 (Eng. Abstr.) **(Ger)**

[Increased incidence of multiple melanoma in sporadic and familial dysplastic nevus cell syndrome] Sigg C, et al. **Hautarzt** 1989 Sep;40(9):548–52 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Immunoglobulin allotypes and familial cutaneous malignant melanoma/dysplastic nevi. A family study. Buchmann RB, et al. **Exp Clin Immunogenet** 1988;5(4):238–42

Infiltrating lymphocytes in benign and malignant naevomelanocytic lesions. Flageul B, et al. **Nouv Rev Fr Hematol** 1990;32(1):9–11

PATHOLOGY

AgNORs in benign, dysplastic, and malignant melanocytic skin lesions. Howat AJ, et al. **Am J Dermatopathol** 1990 Apr;12(2):156–61

Quantification of histologic features of dysplastic nevi. Rivers JK, et al. **Am J Dermatopathol** 1990 Feb;12(1):42–50

Histological analysis of intraepidermal proliferations of atypical melanocytes. Urso C, et al. **Am J Dermatopathol** 1990 Apr;12(2):150–5

Histologic correlations with the clinical diagnosis of dysplastic nevus. Black WC, et al. **Am J Surg Pathol** 1990 Jan;14(1):44–52

Dysplastic melanocytic nevi. Normal variants or melanoma precursors? Murphy GF, et al. **Arch Dermatol** 1990 Apr; 126(4):519–22

A hypothesis incorporating the histologic characteristics of dysplastic nevi into the normal biological development of melanocytic nevi. Piepkorn M. **Arch Dermatol** 1990 Apr; 126(4):514–8

Clinical characteristics of malignant melanomas developing in persons with dysplastic nevi. Rivers JK, et al. **Cancer** 1990 Mar 1;65(5):1232–6

Correlation of histologic architectural and cytoplasmic features with nuclear atypia in atypical (dysplastic) nevomelanocytic nevi. Barnhill RL, et al. **Hum Pathol** 1990 Jan;21(1):51–8

Histopathologic characteristics of dysplastic nevi. Limited association of conventional histologic criteria with melanoma risk group. Ahmed I, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):727–33

Nevomelanocytic proliferations in association with cutaneous malignant melanoma: a multivariate analysis. Gruber SB, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):773–80

Cyanoacrylate skin surface stripping: an improved approach for distinguishing dysplastic nevi from malignant melanomas. Piérard GE, et al. **J Cutan Pathol** 1989 Aug; 16(4):180–2

Dysplastic nevi: a histopathological investigation [letter] Steffen C. **J Cutan Pathol** 1990 Apr;17(2):127

Does a history of melanoma correlate with the clinical presentation of dysplastic nevi? Goldman RJ, et al. **J Dermatol Surg Oncol** 1990 Jun;16(6):538–42

What is a dysplastic naevus? Graham R. **Practitioner** 1989 Mar 22;233(1465):379

[Dysplastic nevus] Wechsler J, et al. **Ann Pathol** 1990; 10(2):76–85 (64 ref.) **(Fre)**

[Focal melanocytic atypia in dysplastic nevus cell nevi. Results of a serial section study] Sigg C, et al. **Hautarzt** 1989 Nov;40(11):701–7 (Eng. Abstr.) **(Ger)**

SURGERY

[Therapy of dysplastic nevus] Kerl H. **Dtsch Med Wochenschr** 1990 Jul 13;115(28–29):1108–9 **(Ger)**

DYSPNEA

Blockpnea as an angina equivalent [letter] Cheng TO. **Am J Cardiol** 1989 Oct 1;64(12):834

Home care rehabilitation and perception of dyspnea in chronic obstructive pulmonary disease (COPD) patients. Strijbos JH, et al. **Chest** 1990 Mar;97(3 Suppl):109S–110S

Dyspnea in the patient with chronic obstructive pulmonary disease. Etiology and management. Sweer L, et al. **Clin Chest Med** 1990 Sep;11(3):417–45 (66 ref.)

CHEMICALLY INDUCED

Respiratory difficulty following caesarean section. Tembo DC, et al. **Br J Hosp Med** 1990 Jul;44(1):52

COMPLICATIONS

Dyspnoea in chronic primary fibromyalgia. Caidahl K, et al. **J Intern Med** 1989 Oct;226(4):265–70

Bacterial tracheitis among children hospitalized for severe obstructive dyspnea. Dudin AA, et al. **Pediatr Infect Dis J** 1990 Apr;9(4):293–5

Oliguria, facial oedema and severe dyspnoea. Niaudet P. **Pediatr Nephrol** 1989 Oct;3(4):385

DIAGNOSIS

Measurement of respiratory sensation in interstitial lung disease. Evaluation of clinical dyspnea ratings and magnitude scaling. Mahler DA, et al. **Chest** 1989 Oct; 96(4):767–71

Correlation of lung function tests with dyspnoea scale, 12 minute walking test and visual analogue scale in patients with COPD. Guleria R, et al. **Indian J Chest Dis Allied Sci** 1989 Oct–Dec;31(4):241–5

Evaluation of dyspnoea [editorial] Pande JN. **Indian J Chest Dis Allied Sci** 1989 Oct–Dec;31(4):239–40

'Breathtaking': the consequences of chronic respiratory disorder. Williams SJ, et al. **Int Disabil Stud** 1989 Jul–Sep; 11(3):114–20

Comparison of corridor and treadmill walking in patients with severe chronic obstructive pulmonary disease. Swerts PM, et al. **Phys Ther** 1990 Jul;70(7):439–42

[Study of dyspnea by the pneumologist: methodology and functional approach] Leuenberger P. **Schweiz Med Wochenschr** 1989 Nov 18;119(46):1628–32 (Eng. Abstr.) **(Fre)**

[Dyspnea and hypoxemia] Nishimura M. **Kokyu To Junkan** 1990 Feb;38(2):125–32 **(Jpn)**

DRUG THERAPY

Procainamide for dyspnea in myotonic dystrophy. Fitting JW, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1442–5

ETIOLOGY

Platypnea–orthodeoxia and progressive autonomic failure. Fox JL, et al. **Am Rev Respir Dis** 1989 Dec;140(6):1802–4

Dyspnoea in young adults due to pulmonary lymphangitic carcinomatosis from gastric carcinoma. Liam CK, et al. **Ann Acad Med Singapore** 1989 Nov;18(6):713–6

Acute symptoms due to a huge duplication cyst ruptured into the esophagus. Nakahara K, et al. **Ann Thorac Surg** 1990 Aug;50(2):309–11

Cause and evaluation of chronic dyspnea in a pulmonary disease clinic. Pratter MR, et al. **Arch Intern Med** 1989 Oct;149(10):2277–82

Incidence and clinical correlates of nocturnal awakening secondary to dyspnea in chronic obstructive airway disease (COAD). Braun SR, et al. **Chest** 1990 Mar;97(3 Suppl):80S–81S

Immediate echocardiography in the management of acute respiratory exacerbations of cardiopulmonary disease. A prospective study. Kudenchuk PJ, et al. **Chest** 1990 Apr; 97(4):782–7

Clinical diagnosis of congestive heart failure in patients with acute dyspnea [see comments] Marantz PR, et al. **Chest** 1990 Apr;97(4):776–81 Comment in: Chest 1990 Apr;97(4):772.

The relationship between pulmonary function and dyspnea in obstructive lung disease. Wolkove N, et al. **Chest** 1989 Dec;96(6):1247–51

CPC: Dyspnea in an HIV positive man [clinical conference] Jones M. **Del Med J** 1990 May;62(5):987–97

CPC: progressive dyspnea in a young female [clinical conference] Pasquale M, et al. **Del Med J** 1989 Oct; 61(10):521–8

Respiratory failure due to choriocarcinoma: a study of 103 dyspneic patients. Kelly MP, et al. **Gynecol Oncol** 1990 Aug;38(2):149–54

Sensation of dyspnea during hypercapnia, exercise, and voluntary hyperventilation. Chonan T, et al. **J Appl Physiol** 1990 May;68(5):2100–6

Pertussis in an adult man infected with the human immunodeficiency virus. Doebbeling BN, et al. **J Infect Dis** 1990 Jun;161(6):1296–8

Cough and shortness of breath. Swischuk LE. **Pediatr Emerg Care** 1990 Jun;6(2):145–6

Assessment of breathlessness. Cockcroft A, et al. **Q J Med** 1989 Aug;72(268):669–76 (37 ref.)

[Congenital laryngeal stenosis; a rare cause of dyspnea in the newborn infant] Gemke RJ, et al. **Ned Tijdschr Geneeskd** 1990 Mar 17;134(11):541–3 (Eng. Abstr.) **(Dut)**

[Lung operations in dyspneic newborn infants] Heij HA, et al. **Ned Tijdschr Geneeskd** 1989 Oct 7;133(40):1978–81 (Eng. Abstr.) **(Dut)**

[Congenital laryngeal stenosis; a rare cause of dyspnea in the newborn infant (letter)] Hoeve LJ. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1014–5 **(Dut)**

[Non-fatal junctional epidermolysis bullosa (generalized, atrophic and benign)] Prigent F, et al. **Ann Dermatol Venereol** 1989;116(11):786–8 **(Fre)**

[Recurrent hypertensive crises and dyspnea following unilateral adrenalectomy in pheochromocytoma in a 44-year-old patient. Successful combination chemotherapy of malignant pheochromocytoma] Saller B, et al. **Internist (Berl)** 1990 Jan;31(1):78–81 **(Ger)**

[Dyspnea] von Wichert P. **Internist (Berl)** 1990 Apr; 31(4):277–81 (22 ref.) **(Ger)**

[A 65-year-old patient with acromegaly, recent appearance of dyspnea and tibial edema] Kentsch M, et al. **Internist (Berlin)** 1989 Aug;30(8):527–30 **(Ger)**

[A 50-year-old patient with precordial pressure sensation and increased dyspnea in a unilateral hyperlucent lung]

Krawietz W, et al. **Internist (Berlin)** 1989 Aug;30(8):531–2 **(Ger)**

[Dysarthria, dysphagia or dyspnea as a reason for the initial consultation in pseudoparalytic myasthenia gravis and amyotrophic lateral sclerosis] Lamprecht A. **Laryngorhinootologie** 1990 Jan;69(1):48–51 (Eng. Abstr.) **(Ger)**

[Value of the flow–volume curve in the evaluation of non-obstructive dyspnea complaints] Discher T, et al. **Pneumologie** 1990 Feb;44 Suppl 1:210–2 (Eng. Abstr.) **(Ger)**

[Dyspnea of cardial origin] Burkart F. **Schweiz Med Wochenschr** 1989 Nov 18;119(46):1623–7 (Eng. Abstr.) **(Ger)**

[Weight loss, fever, dyspnea (clinical conference)] Grohe C, et al. **Schweiz Rundsch Med Prax** 1990 Jan 30;79(5):111–3 (Eng. Abstr.) **(Ger)**

[Dyspnea, fever (clinical conference)] Juergens UR, et al. **Schweiz Rundsch Med Prax** 1989 Nov 14;78(46):1293–6 (Eng. Abstr.) **(Ger)**

[Dyspnea at rest (clinical conference)] Mohaupt M, et al. **Schweiz Rundsch Med Prax** 1989 Sep 12;78(37):1003–6 (Eng. Abstr.) **(Ger)**

[Cough, dyspnea, hemoptysis (clinical conference)] Nati R, et al. **Schweiz Rundsch Med Prax** 1990 Feb 13;79(7):175–8 (Eng. Abstr.) **(Ger)**

[Fever, dyspnea (clinical conference)] von Eiff M, et al. **Schweiz Rundsch Med Prax** 1990 Mar 20;79(12):372–4 (Eng. Abstr.) **(Ger)**

[Dyspnea] von Wichert P. **Verh Dtsch Ges Inn Med** 1989; 95:373–8 (18 ref.) **(Ger)**

[Progressive exercise dyspnea. Sarcoidosis—emphysema?] Härtl W. **Wien Med Wochenschr Suppl** 1989;104:suppl 6–7 **(Ger)**

[Struma—goiter—lung function] Mösenbacher A, et al. **Wien Med Wochenschr Suppl** 1989;104:suppl 47–8 **(Ger)**

[Dyspnea caused by a foreign body in the esophagus] Bretzke G. **Z Arztl Fortbild (Jena)** 1989;83(20):1017–8 **(Ger)**

[A case of eosinophilic pneumonia with acute progressive dyspnea and diffuse small nodular shadows on chest X-ray film] Yamamoto C, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Oct; 27(10):1204–8 (Eng. Abstr.) **(Jpn)**

MORTALITY

[Sudden death in attacks of dyspnea in patients with bronchial asthma] Szmidt M, et al. **Pol Arch Med Wewn** 1989 Jan; 81(1):53–6 (29 ref.) **(Pol)**

PATHOLOGY

Intermittent breathlessness [clinical conference] McClean SP, et al. **Ann Allergy** 1989 Dec;63(6 Pt 1):486–8

PHYSIOPATHOLOGY

Respiratory muscle weakness and dyspnea in thyrotoxic patients. McElvaney GN, et al. **Am Rev Respir Dis** 1990 May;141(5 Pt 1):1221–7

Comparison of scales used to quantitate the sense of effort to breathe in patients with chronic obstructive pulmonary disease. Muza SR, et al. **Am Rev Respir Dis** 1990 Apr;141(4 Pt 1):909–13

Distinguishable sensations of breathlessness induced in normal volunteers. Simon PM, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1021–7

Dyspnea. Pathophysiologic basis, clinical presentation, and management. Tobin MJ. **Arch Intern Med** 1990 Aug; 150(8):1604–13 (97 ref.)

Correlations between dyspnea, diaphragm and sternomastoid recruitment during inspiratory resistance breathing in normal subjects. Breslin EH, et al. **Chest** 1990 Aug; 98(2):298–302

Load responses, dyspnea, and respiratory failure. Younes M. **Chest** 1990 Mar;97(3 Suppl):59S–68S (51 ref.)

Chronobiological study of the relationship between dyspnoea and airway obstruction in symptomatic asthmatic subjects. Peiffer C, et al. **Clin Sci** 1989 Sep;77(3):237–44

Effects of expiratory resistive loading on the sensation of dyspnea. Chonan T, et al. **J Appl Physiol** 1990 Jul; 69(1):91–5

Contribution of chemical and non-chemical drives to breath-holding determined by visual analog scale (VAS). Honda Y, et al. **Jpn J Physiol** 1990;40(1):151–5

Rating of breathlessness at rest during acute asthma: correlation with spirometry and usefulness of breath-holding time. Pérez-Padilla R, et al. **Rev Invest Clin** 1989 Jul–Sep;41(3):209–13

[Mechanisms of exertion dyspnea in cardiac insufficiency] Cabanes L, et al. **Arch Mal Coeur** 1990 Apr;83(4):549–53 (Eng. Abstr.) **(Fre)**

[The value of a visual score of dyspnea in the functional follow-up of asthma patients] Sergysels R, et al. **Rev Mal Respir** 1990;7(3):261–5 (Eng. Abstr.) **(Fre)**

[Pathophysiology of dyspnea] Bühlmann AA. **Schweiz Med Wochenschr** 1989 Nov 18;119(46):1619–23 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Dyspneic-fear and catastrophic cognitions in hyperventilatory panic attacks. Ley R. **Behav Res Ther** 1989;27(5):549–54 (39 ref.)

Dyspnea during hospitalizations for acute phase of illness as recalled by patients with chronic obstructive pulmonary disease. DeVito AJ. **Heart Lung** 1990 Mar;19(2):186–91

Psychophysiologic aspects of dyspnea in chronic obstructive pulmonary disease: a pilot study. Gift AG, et al. **Heart Lung** 1990 May;19(3):252–7

SURGERY

Silastic prosthesis plombage for right postpneumonectomy syndrome. Riveron FA, et al. **Ann Thorac Surg** 1990 Sep; 50(3):465–6

Successful surgical treatment of tracheal compression following right pneumonectomy in infancy. Long-term follow-up. Horvath P, et al. **Eur J Cardiothorac Surg** 1990; 4(7):351–3; discussion 354

Platypnea and orthodeoxia: surgically corrected dyspnea with recurrence. Harrow AS, et al. **J Okla State Med Assoc** 1989 Nov;82(11):563–6

THERAPY

Continuous positive airway pressure reduces work of breathing and dyspnea during weaning from mechanical ventilation in severe chronic obstructive pulmonary disease. Petrof BJ, et al. **Am Rev Respir Dis** 1990 Feb;141(2):281–9

Relationship between the perception of breathlessness and inspiratory resistive loading: report on a clinical trial. Patessio A, et al. **Eur Respir J Suppl** 1989 Jul;7:587s–591s

Dyspnea management: "to take into the air my quiet breath". Henteleff PD. **J Palliat Care** 1989 Dec;5(4):52–4

Effect of nasal–CPAP on patients with chronic obstructive pulmonary disease. Lim TK. **Singapore Med J** 1990 Jun; 31(3):233–7

VETERINARY

What is your diagnosis? Mineralized retropharyngeal mass (3 x 5 cm) compressing the pharynx ventrally. Jones SL, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):395–6

Dyspnea in aging rats due to disseminated intravascular coagulation (DIC). Carthew P, et al. **Vet Pathol** 1989 Nov; 26(6):505–9

DYSPNEA, PAROXYSMAL

DIAGNOSIS

Normal airway responsiveness to methacholine in cardiac asthma. Seibert AF, et al. **Am Rev Respir Dis** 1989 Dec; 140(6):1805–6

Bronchial responsiveness in patients with mitral valve disease. Rolla G, et al. **Eur Respir J** 1990 Feb;3(2):127–31

ETIOLOGY

Dyspnoea, wheezing and respiratory insufficiency in pregnancy: was it bronchial or cardiac asthma? [editorial] Yernault JC. **Eur Respir J** 1990 Mar;3(3):247–8

PATHOLOGY

[Clinical cases in pneumology] Hreniuc R. **Rev Med Chir Soc Med Nat Iasi** 1989 Jan–Mar;93(1):186 **(Rum)**

DYSPROSIUM

Manganese activation of CaSO4:Dy. Li SH, et al. **Health Phys** 1990 Jan;58(1):65–72

DIAGNOSTIC USE

Demarcation of myocardial ischemia: magnetic susceptibility effect of contrast medium in MR imaging. Saeed M, et al. **Radiology** 1989 Dec;173(3):763–7

THERAPEUTIC USE

Dysprosium (165Dy) hydroxide macroaggregates for radiation synovectomy—animal studies. McLaren A, et al. **Eur J Nucl Med** 1990;16(8–10):627–32

DYSSOCIAL BEHAVIOR see ANTISOCIAL PERSONALITY DISORDER

DYSTHYMIC DISORDER see DEPRESSIVE DISORDER

DYSTOCIA

Labor epidural analgesia and dystocia-related cesarean section [letter] Downing JW, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):1096–7

Cesarean birth for failed progress in labor [letter; comment] Cely WF. **Obstet Gynecol** 1989 Nov;74(5):829–30 Comment on: Obstet Gynecol 1989 Jun;73(6):915–20.

[Dystocia and intracranial hemorrhage in perinatal autopsy] Shi SZ. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Jul; 24(4):209–11, 252 (Eng. Abstr.) **(Chi)**

[The effect of segmental epidural analgesia on the duration of labor in spastic dystocia] Viceić M, et al. **Jugosl Ginekol Perinatol** 1989 Sep–Dec;29(5–6):177–9 (Eng. Abstr.) **(Ser)**

BLOOD

Oxytocin plasma levels in cows with normal parturition or dystocia and with placental retention. Kotwica G, et al. **Exp Clin Endocrinol** 1990 Apr;95(2):203–9

DIAGNOSIS

Diagnosis of dystocia and management with cesarean section among primiparous women in Ottawa–Carleton [see comments] Stewart PJ, et al. **Can Med Assoc J** 1990 Mar 1;142(5):459–63 Comment in: Can Med Assoc J 1990 Jun 1;142(11):1187–8.

DRUG THERAPY

[The value of magnesium pyrrolidone carboxylate in true cervix dystocia. A double blind versus placebo study] Demory JE, et al. **Rev Fr Gynecol Obstet** 1990 Jun; 85(6):413–6 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Shoulder dystocia–a review at the Department of Obstetrics and Gynaecology, Alexandra Hospital, Singapore. Vengadasalam D. **Singapore Med J** 1990 Feb;31(1):30–2

[Shoulder dystocia; a retrospective study] Vermeulen GM, et al. **Ned Tijdschr Geneeskd** 1990 Jun 9;134(23):1134–8 (Eng. Abstr.) **(Dut)**

ETIOLOGY

Shoulder dystocia—a clinical study of 56 cases. al-Najashi S, et al. **Aust N Z J Obstet Gynaecol** 1989 May;29(2):129–32

Ovarian pregnancy causing obstructed labor at term in a heterotopic gestation. Ogunniyi SO, et al. **Int J Gynaecol Obstet** 1990 Mar;31(3):283–5

The influence of birth weight on labor in nulliparas. Turner MJ, et al. **Obstet Gynecol** 1990 Aug;76(2):159–63

The effect of cervical cerclage on the course of labor. Weissman A, et al. **Obstet Gynecol** 1990 Aug;76(2):168–71

[Fetal shoulder girdle dystocia during labor] Kozovski I, et al. **Akush Ginekol (Sofiia)** 1990;29(2):18–22 (Eng. Abstr.) **(Bul)**

[Shoulder dystocia; a retrospective study (letter)] Fagginger Auer PU. **Ned Tijdschr Geneeskd** 1990 Aug 11; 134(32):1564–5 **(Dut)**

PREVENTION & CONTROL

Can shoulder dystocia be prevented? [letter] Nagey DA. **Am J Obstet Gynecol** 1990 Sep;163(3):1095–6

Shoulder dystocia: prevention and treatment. O'Leary JA, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):5–9

RADIOGRAPHY

[The importance of x-ray pelvimetry for the prognosis of pelvic dystocia] Iarükov A, et al. **Akush Ginekol (Sofiia)** 1990;29(2):28–31 (Eng. Abstr.) **(Bul)**

SURGERY

Epidural analgesia and cesarean section for dystocia [letter] Chestnut DH. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):247–9

Dystocia and cesarean section [letter; comment] **Can Med Assoc J** 1990 Jun 1;142(11):1187–8 Comment on: Can Med Assoc J 1990 Mar 1;142(5):459–63.

[Shoulder dystocia; a retrospective study (letter)] van Roosmalen J. **Ned Tijdschr Geneeskd** 1990 Aug 4; 134(31):1517–8 **(Dut)**

THERAPY

The Zavanelli maneuver [letter] Dimitry ES. **Am J Obstet Gynecol** 1990 May;162(5):1343

VETERINARY

An investigation of the causes of parturient calf mortality in shorthorn heifers. Gee CD, et al. **Aust Vet J** 1989 Sep; 66(9):293–5

Factors influencing calving difficulty in beef heifers. Naazie A, et al. **J Anim Sci** 1989 Dec;67(12):3243–9

Biological type effects on gestation length, calving traits and calf growth rate. Reynolds WL, et al. **J Anim Sci** 1990 Mar;68(3):630–9

Threshold model analysis of dystocia in dairy cattle when progeny information is limited. Clutter AC, et al. **J Dairy Sci** 1989 Dec;72(12):3264–72

Effects of body measurements and weight on calf size and calving difficulty of Holsteins. Sieber M, et al. **J Dairy Sci** 1989 Sep;72(9):2402–10

Models for genetic analysis of dystocia and calf mortality. Weller JI, et al. **J Dairy Sci** 1989 Oct;72(10):2633–43

Dystocia in the heifer [letter] Ewing JM. **Vet Rec** 1968 Aug 10;83(6):157

Dystocia in British cattle [letter; comment] Falk M. **Vet Rec** 1990 Feb 17;126(7):176 Comment on: Vet Rec 1989 Dec 23–30;125(26–27):636–9.

Caesarean section in a chinchilla [letter; comment] Jones AK. **Vet Rec** 1990 Apr 28;126(17):441 Comment on: Vet Rec 1990 Apr 14;126(15):370.

Dystocia in nine British breeds of cattle and its relationship to the dimensions of the dam and calf [see comments] Schwabe AE, et al. **Vet Rec** 1989 Dec 23–30; 125(26–27):636–9 Comment in: Vet Rec 1990 Feb 17;126(7):176.

[Cervical hygroma in the calf as an absolute cause of dystocia. An unusual malformation possibly of hereditary genesis in Braunvieh x Brown-Swiss breeds] Wanke R, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jan 1;103(1):18–22 (Eng. Abstr.) **(Ger)**

[Celiotomy in tortoises: remedy of choice for dystocia (laying distress) and gastrointestinal foreign bodies] Müller M, et al. **Schweiz Arch Tierheilkd** 1989;131(8):485–6, 491–3 (12 ref.) (Eng. Abstr.) **(Ger)**

DYSTONIA

The dystonias [letter; comment] **BMJ** 1990 Feb 24; 300(6723):536–7 Comment on: BMJ 1990 Jan 20;300(6718):139–44.

The dystonias [see comments] Marsden CD, et al. **BMJ** 1990 Jan 20;300(6718):139–44 (25 ref.) Comment in: BMJ 1990 Feb 24;300(6723):536–7.

CHEMICALLY INDUCED

A comparison of severe tardive dystonia and severe tardive dyskinesia. Yassa R, et al. **Acta Psychiatr Scand** 1989 Aug; 80(2):155–9

Prevalence of neuroleptic-induced dystonia in mania and schizophrenia. Remington GJ, et al. **Am J Psychiatry** 1990 Sep;147(9):1231–3

Tardive dystonia. Chiu HF, et al. **Aust N Z J Psychiatry** 1989 Dec;23(4):566–70 (45 ref.)

Acute dystonia induced by midazolam and abolished by flumazenil. Stolarek IH, et al. **BMJ** 1990 Mar 3; 300(6724):614

Tardive dystonia [letter; comment] Chiu H. **Br J Psychiatry** 1989 Nov;155:715–6 Comment on: Br J Psychiatry 1989 Jul;155:113–5.

Transient recurrence of auditory hallucinations during acute dystonia [see comments] Chiu LP. **Br J Psychiatry** 1989 Jul;155:110–3 Comment in: Br J Psychiatry 1989 Oct;155:569–70.

Complex dystonia of Parkinson's disease: clinical features and relation to plasma levodopa profile. McHale DM, et al. **Clin Neuropharmacol** 1990 Apr;13(2):164–70

Evidence for the role of spinal cord systems in Parkinson's disease-associated pain. Sage JI, et al. **Clin Neuropharmacol** 1990 Apr;13(2):171–4

Tardive dystonia: four case histories. Yadalam KG, et al. **J Clin Psychiatry** 1990 Jan;51(1):17–20

Acute dystonic reaction induced by a monoamine oxidase inhibitor [letter] Jarecke CR, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):144–5

Further query on dystonia [letter; comment] Checchio LM. **J Emerg Med** 1989 Jul–Aug;7(4):412–3 Comment on: J Emerg Med 1988 Nov–Dec;6(6):491–3.

Questions on diazepam-induced dystonia [letter; comment] DeBard ML. **J Emerg Med** 1989 Jul–Aug;7(4):412 Comment on: J Emerg Med 1988 Nov–Dec;6(6):491–3.

Copper-induced dystonia secondary to cholestatic liver disease [letter] Danks DM. **Lancet** 1990 Feb 17; 335(8686):410

Induction of chorea and dystonia in parkinsonian primates. Boyce S, et al. **Mov Disord** 1990;5(1):3–7

Life-threatening cranial dystonia following trihexyphenidyl withdrawal. Giménez-Roldán S, et al. **Mov Disord** 1989; 4(4):349–53

Sulpiride-induced tardive dystonia. Miller LG, et al. **Mov Disord** 1990;5(1):83–4

Neural mechanisms of dystonia: evidence from a 2-deoxyglucose uptake study in a primate model of dopamine agonist-induced dystonia. Mitchell IJ, et al. **Mov Disord** 1990;5(1):49–54

Cocaine withdrawal dystonia [letter; comment] Kumor K. **Neurology** 1990 May;40(5):863–4 Comment on: Neurology 1989 Jul;39(7):996–7.

Drug specificity of pharmacological dystonia. Matsumoto RR, et al. **Pharmacol Biochem Behav** 1990 May;36(1):151–5

Acute laryngeal dystonic reactions to neuroleptics [see comments] Koek RJ, et al. **Psychosomatics** 1989 Fall; 30(4):359–64 (27 ref.) Comment in: Psychosomatics 1990 Spring;31(2):236–7.

Acute laryngeal dystonic reactions [letter; comment] Stevens CB. **Psychosomatics** 1990 Spring;31(2):236–7 Comment on: Psychosomatics 1989 Fall;30(4):359–64.

Tardive dystonia in Chinese. Chiu HF, et al. **Singapore Med J** 1989 Oct;30(5):441–3

[A severe dystonic reaction in acute Torecan poisoning] Lupu V, et al. **Rev Pediatr Obstet Ginecol [Pediatr]** 1989 Jul–Sep;38(3):277–81 (Eng. Abstr.) **(Rum)**

COMPLICATIONS

Trunk and head tremor as isolated manifestations of dystonia. Rivest J, et al. **Mov Disord** 1990;5(1):60–5

DIAGNOSIS

Sandifer syndrome reconsidered. Mandel H, et al. **Acta Paediatr Scand** 1989 Sep;78(5):797–9

Paroxysmal nocturnal dystonia presenting as excessive daytime somnolence. Maccario M, et al. **Arch Neurol** 1990 Mar;47(3):291–4

Idiopathic dystonia with onset in childhood. Angelini L, et al. **J Neurol** 1989 Sep;236(6):319–21

Dystonia and cerebellar ataxia [letter; comment] Lees A. **Mov Disord** 1990;5(2):178 Comment on: Mov Disord 1988;3(4):336–42.

Essential blepharospasm and related dystonias. Jordan DR, et al. **Surv Ophthalmol** 1989 Sep–Oct;34(2):123–32 (57 ref.)

[Tetany in autonomic vascular dystonia in children] Kushnir GM. **Zh Nevropatol Psikhiatr** 1990;90(5):31–6 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Treatment of tardive dystonia [letter] Friedman EH. **J Clin Psychiatry** 1990 Aug;51(8):348

Dose standardisation of botulinum toxin [letter] Schantz EJ, et al. **Lancet** 1990 Feb 17;335(8686):421

Effect of intravenous injection of biperiden and clonazepam in dystonia. Povlsen UJ, et al. **Mov Disord** 1990;5(1):27–31

Treatment of hyperkinetic movement disorders. Bressman SB, et al. **Neurol Clin** 1990 Feb;8(1):51–75 (117 ref.)

Tetrahydrobiopterin administration in biopterin-deficient progressive dystonia with diurnal variation. Fink JK, et al. **Neurology** 1989 Oct;39(10):1393–5

Botulinum toxin injections for cervical dystonia. Jankovic J, et al. **Neurology** 1990 Feb;40(2):277–80

Motor control in childhood onset dopa-responsive dystonia (Segawa syndrome). Müller K, et al. **Neuropediatrics** 1989 Nov;20(4):185–91

[Effect of L-dopa in dystonia which was worsened by exercise and improved by resting; a care report] Yoshikawa H, et al. **No To Hattatsu** 1990 May;22(3):290–2 **(Jpn)**

ETIOLOGY

Neurodevelopmental outcome of transient neonatal intracerebral echodensities. Appleton RE, et al. **Arch Dis Child** 1990 Jan;65(1 Spec No):27–9

Effect of dystonic movements on oesophageal peristalsis in Sandifer's syndrome. Puntis JW, et al. **Arch Dis Child** 1989 Sep;64(9):1311–3

Delayed-onset posthemiplegic dystonia and imitation synkinesia [letter] Chiang CY, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul;53(7):623

Case 1, 1989: juvenile-onset parkinsonism, dystonia, and pyramidal tract signs. Kang UJ, et al. **Mov Disord** 1989; 4(4):363–70

Progressive dystonia following resuscitation from cardiac arrest. Boylan KB, et al. **Neurology** 1990 Sep;40(9):1458–61

Unique neurological signs in Wernicke's encephalopathy? [letter] Lichtigfeld FJ, et al. **S Afr Med J** 1989 Nov 4; 76(9):517–8

Dystonia in musicians. Jankovic J, et al. **Semin Neurol** 1989 Jun;9(2):131–5

[Neuronal heterotopia with hemidystonia] Hsien HH, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun;88(6):643–5, 629 (Eng. Abstr.) **(Chi)**

[Suspected germ cell tumor in bilateral basal ganglia with progressive dystonia] Nakamura M, et al. **No To Hattatsu** 1990 May;22(3):284–9 (Eng. Abstr.) **(Jpn)**

GENETICS

X-linked recessive torsion dystonia in the Philippines. Kupke KG, et al. **Am J Med Genet** 1990 Jun;36(2):237–42

Idiopathic dystonia among Ashkenazi Jews: evidence for autosomal dominant inheritance. Bressman SB, et al. **Ann Neurol** 1989 Nov;26(5):612–20

A genetic study of idiopathic torsion dystonia in the United Kingdom. Fletcher NA, et al. **Brain** 1990 Apr;113 (Pt 2):379–95

A familial syndrome of dystonia, blepharospasm, and pigmentary retinopathy. Coppeto JR, et al. **Neurology** 1990 Sep;40(9):1359–63

Dopa-responsive dystonia: the spectrum of clinical manifestations in a large North American family. Nygaard TG, et al. **Neurology** 1990 Jan;40(1):66–9

Complex segregation analysis of dystonia pedigrees suggests autosomal dominant inheritance. Pauls DL, et al. **Neurology** 1990 Jul;40(7):1107–10

[Four cases in two families of hereditary progressive dystonia with circadian rhythm] Watanabe K, et al. **Nippon Naika Gakkai Zasshi** 1990 Jan 10;79(1):102–3 **(Jpn)**

[Response to haloperidol and analysis of growth curve in hereditary progressive dystonia with marked diurnal fluctuation] Oki J, et al. **No To Hattatsu** 1989 Nov; 21(6):569–73 (Eng. Abstr.) **(Jpn)**

[Two siblings of juvenile Parkinson's disease dystonic type (Yokochi type 3) and hereditary progressive dystonia with marked diurnal fluctuation (Segawa)] Ujike H, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):890–4 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Autoimmune etiology for cranial dystonia [letter] Nilaver G, et al. **Mov Disord** 1990;5(2):179–80

METABOLISM

Quantitative autoradiography reveals selective changes in cerebellar GABA receptors of the rat mutant dystonic. Beales M, et al. **J Neurosci** 1990 Jun;10(6):1874–85

PHYSIOPATHOLOGY

Hereditary progressive dystonia with marked diurnal fluctuation: report of a case. Hwu WL, et al. **Acta Paediatr Sin** 1989 Jan–Feb;30(1):46–51

Sleep spindles in torsion dystonia. Fish DR, et al. **Arch Neurol** 1990 Feb;47(2):216–8

Focal dystonia following soft tissue injury: three case reports with long-term outcome. Katz RT, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):345–9

Humming, auditory hallucinations, and dystonia [letter] [see comments] Lauterbach EC. **Biol Psychiatry** 1990 Apr 15; 27(8):934–5 Comment in: Biol Psychiatry 1990 Apr 15;27(8):811–2.

Abnormal vibration-induced cerebral blood flow responses in idiopathic dystonia. Tempel LW, et al. **Brain** 1990 Jun; 113 (Pt 3):691–707

Nocturnal paroxysmal dystonia with short-lasting attacks: three cases with evidence for an epileptic frontal lobe origin of seizures. Tinuper P, et al. **Epilepsia** 1990 Sep–Oct; 31(5):549–56

Torticollis, midbrain, and sigma receptors [letter] Walker FO, et al. **Mov Disord** 1990;5(3):265

H-reflex recovery curve and reciprocal inhibition of H-reflex in different kinds of dystonia. Panizza M, et al. **Neurology** 1990 May;40(5):824–8

[Clinical characteristics of painful dystonic foot response in patients with Parkinson's disease] Hara H, et al. **Rinsho Shinkeigaku** 1989 Sep;29(9):1101–5 (Eng. Abstr.) **(Jpn)**

[Effect of dehydrobenzperidol (DHB) on cortical and thalamic somatosensory evoked potentials in patients with muscle dystonia] Mempel E, et al. **Neurol Neurochir Pol** 1988 Nov–Dec;22(6):531–6 (Eng. Abstr.) **(Pol)**

RADIONUCLIDE IMAGING

Positron emission tomographic studies of the subcortical degenerations and dystonia. Brooks DJ. **Semin Neurol** 1989 Dec;9(4):351–9 (42 ref.)

THERAPY

Parkinsonism-dystonia syndrome and ECT [letter] Lauterbach EC, et al. **Am J Psychiatry** 1990 Sep; 147(9):1249–50

Temporary remission of tardive dystonia following electroconvulsive therapy. Adityanjee, et al. **Br J Psychiatry** 1990 Mar;156:433–5

Post whiplash dystonia well controlled by transcutaneous electrical nervous stimulation (TENS): case report. Foley-Nolan D, et al. **J Trauma** 1990 Jul;30(7):909–10

Treatment of writers' dystonia [letter] Lees AJ, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1525

[Treatment of spasmodic torticollis by local injections of botulinum toxin] Jedynak CP, et al. **Rev Neurol (Paris)** 1990;146(6–7):440–3 (Eng. Abstr.) **(Fre)**

[Writer's cramp—focal dystonia or psychogenic movement disorder? A critical literature study] Zacher A. **Fortschr Neurol Psychiatr** 1989 Aug;57(8):328–36 (84 ref.) (Eng. Abstr.) **(Ger)**

DYSTONIA MUSCULORUM DEFORMANS

COMPLICATIONS

Idiopathic dystonia and cervical spondylotic myelopathy. Waterston JA, et al. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1424–6

Bilateral piriformis syndrome associated with dystonia musculorum deformans. Gandhavadi B. **Orthopedics** 1990 Mar;13(3):350–1

DRUG THERAPY

[Clinical results of using Nakom in diseases of the nervous system] Evtushenko SK, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):35–7 (Eng. Abstr.) **(Rus)**

[Dopamine deficiency syndrome in children with specific reaction to the treatment with levodopa preparations] Shoshina LM, et al. **Zh Nevropatol Psikhiatr** 1989; 89(8):27–32 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Dystonia musculorum deformans: a 'critical phenomenon' model involving nigral dopaminergic and caudate pathways. Kelleher JF, et al. **Med Hypotheses** 1990 Jan; 31(1):55–8 (20 ref.)

GENETICS

Segregation analysis of idiopathic torsion dystonia in Ashkenazi Jews suggests autosomal dominant inheritance. Risch NJ, et al. **Am J Hum Genet** 1990 Mar;46(3):533–8

Dystonia gene in Ashkenazi Jewish population is located on chromosome 9q32–34. Kramer PL, et al. **Ann Neurol** 1990 Feb;27(2):114–20

The genetics of primary torsion dystonia. Müller U, et al. **Hum Genet** 1990 Jan;84(2):107–15 (127 ref.)

The genetics of idiopathic torsion dystonia. Fletcher NA. **J Med Genet** 1990 Jul;27(7):409–12 (52 ref.)

Assignment of the X-linked torsion dystonia gene to Xq21 by linkage analysis. Kupke KG, et al. **Neurology** 1990 Sep; 40(9):1438–42

Human gene for torsion dystonia located on chromosome 9q32–q34. Ozelius L, et al. **Neuron** 1989 May;2(5):1427–34

[Characteristics of the clinical course, pathogenesis and treatment of torsion dystonia in childhood] Markova ED. **Zh Nevropatol Psikhiatr** 1989;89(8):32–5 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

CSF oligoclonal IgG bands in a patient with torsion dystonia [letter] Wroe SJ, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):1013–4

PHYSIOPATHOLOGY

The blink reflex in patients with idiopathic torsion dystonia. Nakashima K, et al. **Arch Neurol** 1990 Apr;47(4):413–6

Rapid elbow movements in patients with torsion dystonia. van der Kamp W, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep;52(9):1043–9

THERAPY

[Botulinum toxin in dystonia] Martí MJ, et al. **Neurologia** 1988 Mar–Apr;3(2):63–7 (43 ref.) **(Spa)**

DYSTROPHIA BREVICOLLIS CONGENITA see KLIPPEL–FEIL SYNDROME

DYSTROPHIA MYOTONICA see MYOTONIA ATROPHICA

E ANTIGENS see HEPATITIS B E ANTIGENS

E–B VIRUS see EPSTEIN–BARR VIRUS

E-CADHERINS see CADHERINS

EAR

Type II collagen distribution in the monkey ear. Ishibe T, et al. **Am J Otol** 1990 Jan;11(1):33–8

Absence of graying of pinnal hairs [letter] Thomas J, et al. **Arch Dermatol** 1989 Nov;125(11):1589

Effect of exogenous collagen I on tissue repair in the rabbit ear and regeneration of the rat liver. Whyte K. **Ir J Med Sci** 1989 Nov;158(11):278–9

Herpes simplex virus infections in male and female mice following pinna inoculation: responses to primary infection and artificially induced recurrent disease. Blondeau JM, et al. **J Med Virol** 1989 Dec;29(4):320–6

ABNORMALITIES

Acral–genital anomalies combined with ear anomalies [letter] Hennekam RC. **Am J Med Genet** 1989 Nov;34(3):454–5

Microtia and associated anomalies: statistical analysis. Kaye CI, et al. **Am J Med Genet** 1989 Dec;34(4):574–8

Short stature, brachydactyly, small ears, and a pattern of minor anomalies in brother and sister born to consanguineous parents: a hitherto unreported syndrome? Schinzel A, et al. **Am J Med Genet** 1990 Jun;36(2):243–6

Follow–up study of reconstructed auricle in microtia: comparison of the results of the rib cartilage framework and the silicone rubber framework methods. Matsunaga T, et al. **Auris Nasus Larynx** 1989;16(2):75–88

A transverse facial cleft accompanied by a accessory ear and hypoplasia of the upper extremity—a case report. Mihashi T, et al. **Fukuoka Igaku Zasshi** 1989 Jun;80(6):372–4

The Townes–Brocks syndrome. O'Callaghan M, et al. **J Med Genet** 1990 Jul;27(7):457–61

Unilateral duplication of the cerebellar hemisphere and internal, middle, and external ear: a clinical case study. Jackson JM, et al. **Plast Reconstr Surg** 1990 Sep;86(3):550–3

Congenital anomalies of the temporal bone. Eelkema EA, et al. **Semin Ultrasound CT MR** 1989 Jun;10(3):195–212 (28 ref.)

[Congenital malformation of the ear associated with secretory otitis media] Savić D, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(5):479–80 (Eng. Abstr.) **(Fre)**

[Agnathia, microstomia, synotia] Monaco R, et al. **Pathologica** 1989 May–Jun;81(1073):291–3 (13 ref.) (Eng. Abstr.) **(Ita)**

ANATOMY & HISTOLOGY

Palaeontology: ears and vertebrate evolution [news; comment] Panchen AL. **Nature** 1989 Nov 23; 342(6248):342–3 Comment on: Nature 1989 Nov 23;342(6248):425–7.

BLOOD SUPPLY

Effects of ischemia on ulcer wound healing: a new model in the rabbit ear. Ahn ST, et al. **Ann Plast Surg** 1990 Jan; 24(1):17–23

An experimental study of the venous flap: investigation of the recipient vein. Inada Y, et al. **J Reconstr Microsurg** 1990 Apr;6(2):123–8

A method for chronic intravenous infusion of the rabbit via the marginal ear vein. Melich D. **Lab Anim Sci** 1990 May; 40(3):327–8

Histamine metabolism and pinnal hyperaemia during magnesium deficiency in rats. Nishio A, et al. **Magnes Res** 1988 Dec;1(3–4):155–61

The action of caffeine on inward barium current through voltage-dependent calcium channels in single rabbit ear artery cells. Hughes AD, et al. **Pflugers Arch** 1990 Jun; 416(4):462–6

Inhibitory actions of adenosine differ between ear and mesenteric arteries in the rabbit. Zhang GL, et al. **Pflugers Arch** 1989 Oct;415(1):56–62

Effect of iloprost on spreading of ischaemic necrosis in the hairless mouse ear. Müller B, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jan; 39(1):63–4

EMBRYOLOGY

Embryology of the facial nerve and its clinical applications. Sataloff RT. **Laryngoscope** 1990 Sep;100(9):969–84

Lithium can transform ear placodes of Xenopus into multiple otic vesicles connected by tubes. Gutknecht D, et al. **Naturwissenschaften** 1990 May;77(5):235–7

[Heterochronic maturation of the central and peripheral sections of the auditory system in cetaceans] Zharskaia VD, et al. **Nerv Sist** 1989;28:139–45 **(Rus)**

INJURIES

The use of tympanometry in predicting otic barotrauma [letter] **Aviat Space Environ Med** 1990 Aug;61(8):763

Hot oil in the ears [letter] Truitt CF. **Pediatr Infect Dis J** 1990 Mar;9(3):224

[Blast injury of the ear] Roth Y, et al. **Harefuah** 1989 Nov 15;117(10):297–301 (Eng. Abstr.) **(Heb)**

PATHOLOGY

Temporal bone histopathology: fixed malleus. Marion MS, et al. **Am J Otolaryngol** 1990 May–Jun;11(3):205–6

PHYSIOLOGY

Frequency variation in spontaneous sound emissions from guinea pig and human ears. Brown AM, et al. **Eur Arch Otorhinolaryngol** 1990;247(1):24–8

Postnatal development of 2f1–f2 otoacoustic emissions in pigmented rat. Henley CM 3d, et al. **Hear Res** 1990 Jan; 43(2–3):141–8

Acoustic input–admittance of the alligator–lizard ear: nonlinear features. Rosowski JJ, et al. **Hear Res** 1984 Dec; 16(3):205–23

Spontaneous otoacoustic emissions in the European edible frog (Rana esculenta): spectral details and temperature dependence. van Dijk P, et al. **Hear Res** 1989 Nov; 42(2–3):273–82 (50 ref.)

Ear dominance and laterality of cortical activation identified by event–related desynchronization mapping. Schulter G, et al. **Int J Psychophysiol** 1990 Apr;8(3):283–95

Delayed, frequency–specific inhibition in the cochlear nuclei of mice: a mechanism for monaural echo suppression. Wickesberg RE, et al. **J Neurosci** 1990 Jun;10(6):1762–8

PHYSIOPATHOLOGY

Right–left correlation in guinea pig ears after noise exposure. Grenner J, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb; 109(1–2):41–8

SURGERY

Before the sun sets [editorial] May M. **Am J Otol** 1990 Jul; 11(4):236

The use of autologous auricular cartilage for temporomandibular joint disc replacement: a preliminary report. Matukas VJ, et al. **J Oral Maxillofac Surg** 1990 Apr;48(4):348–53

Quantitative fluorimetric effects of leeching on a replanted ear. Anthony JP, et al. **Microsurgery** 1989;10(3):167–9

[Use of madreporic material in ear surgery. An initial study] Schmoll L, et al. **Ann Otolaryngol Chir Cervicofac** 1990; 107(1):67–70 (Eng. Abstr.) **(Fre)**

EAR CANAL

see related
CERUMEN

Cholesteatoma of the external ear canal. Farrior J. **Am J Otol** 1990 Mar;11(2):113–6 (23 ref.)

Recurrent hemangioma of the external auditory canal. Jackson CG, et al. **Am J Otol** 1990 Mar;11(2):117–8

Staging proposal for external auditory meatus carcinoma based on preoperative clinical examination and computed tomography findings. Arriaga M, et al. **Ann Otol Rhinol Laryngol** 1990 Sep;99(9 Pt 1):714–21

Cholesterol granuloma presenting in the ear canal. Matt BH, et al. **Ann Otol Rhinol Laryngol** 1990 Aug;99(8):672–3

Bulky, benign tumor of the external auditory canal. Lloyd KM. **Arch Dermatol** 1990 May;126(5):589–90

Re: Facial fuzz and funny findings [letter] Stein L. **Cleve Clin J Med** 1990 Jan–Feb;57(1):98

Fibrous dysplasia of the temporal bone presenting as an osteoma of the external auditory canal. Kessler A, et al. **Ear Nose Throat J** 1990 Mar;69(3):197–9

The use of 0.5% chlorhexidine in 70% alcohol for disinfection of the ear–canal in children with serous otitis media [letter; comment] Denton GW. **Int J Pediatr Otorhinolaryngol** 1990 Mar;19(1):80–1 Comment on: Int J Pediatr Otorhinolaryngol 1988 Nov;16(2):119–24.

Use of ivermectin for treatment of ear mite infestation in rabbits. Curtis SK, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1139–40

Duro–cutaneous fistula caused by a 'congenital' cholesteatoma. Viani L, et al. **J Laryngol Otol** 1990 Mar; 104(3):241–3

Otomycosis: a common problem in north Iraq. Yehia MM, et al. **J Laryngol Otol** 1990 May;104(5):387–9

Button batteries in the ear, nose and cervical esophagus: a destructive foreign body. McRae D, et al. **J Otolaryngol** 1989 Oct;18(6):317–9 (13 ref.)

Squamous cell carcinoma of the external auditory meatus (canal). Arriaga M, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):330–7

Severe tissue destruction in the ear caused by alkaline button batteries. Premachandra DJ, et al. **Postgrad Med J** 1990 Jan;66(771):52–3

[The dung beetle, Maladera matrida, as a new otologic nuisance] Roth Y. **Harefuah** 1989 May 1;116(9):468–9 (Eng. Abstr.) **(Heb)**

[Hidradenoma of the external acoustic meatus: ceruminoma] Gianotti R. G **Ital Dermatol Venereol** 1990 Feb; 125(1–2):25–6 (Eng. Abstr.) **(Ita)**

[Audiological study for ears with aural stenosis and atresia] Ogasawara M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 May;92(5):687–93 (Eng. Abstr.) **(Jpn)**

[Clinical features and results in the treatment of malignant neoplasms of the external auditory canal and middle ear] Ogata H, et al. **Rinsho Hoshasen** 1989 Sep;34(9):973–6 (Eng. Abstr.) **(Jpn)**

[Foreign bodies of the ear in Polish 19th century medical literature] Kierzek A. **Przegl Lek** 1989;46(8):664–8 **(Pol)**

[Neurilemmoma of the external auditory canal. Apropos of a case] Cejas Méndez L, et al. **Acta Otorrinolaringol Esp** 1988 May–Jun;39(3):183–4 (20 ref.) (Eng. Abstr.) **(Spa)**

[Erosive pathologies of the external auditory canal] Giróns Bonells J, et al. **Acta Otorrinolaringol Esp** 1988 Mar–Apr; 39(2):81–4 (17 ref.) (Eng. Abstr.) **(Spa)**

[Malignant tumor of the external auditory canal] Hernández Martín A, et al. **Acta Otorrinolaringol Esp** 1989 Sep–Oct; 40(5):369–72 (30 ref.) (Eng. Abstr.) **(Spa)**

[Basal cell carcinoma of the external auditory canal] Nieto A, et al. **An Otorrinolaringol Ibero Am** 1989;16(6):641–8 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Anomalies of the first branchial cleft. Aronsohn RS, et al. **Arch Otolaryngol** 1976 Dec;102(12):737–40

Congenital aural atresia. Cole RR, et al. **Clin Plast Surg** 1990 Apr;17(2):367–71 (5 ref.)

Developmental defects of the tympanic plate: case reports and review of the literature. Heffez L, et al. **J Oral Maxillofac Surg** 1989 Dec;47(12):1336–40 (6 ref.)

The risk of cholesteatoma in congenital aural stenosis. Cole RR, et al. **Laryngoscope** 1990 Jun;100(6):576–8

[Congenital duplication of the external auditory canal] Vokurka J. **Cesk Otolaryngol** 1989 Sep;38(5):314–7 (Eng. Abstr.) **(Cze)**

[Duplication of the auditory canal. A vestige of the 1st branchial cleft] Strutz J, et al. **Laryngorhinootologie** 1989 Dec;68(12):694–7 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Morphologic measurements of the external horizontal ear canal of dogs. Stout–Graham M, et al. **Am J Vet Res** 1990 Jul;51(7):990–4

Outer ear canal shape and its relation to the effectiveness of sound attenuating earplugs. Abel SM, et al. **J Otolaryngol** 1990 Apr;19(2):91–5

ENZYMOLOGY

Steroid sulfatase activity in the skin of the external ear canal. Weinberger J, et al. **J Otolaryngol** 1990 Apr;19(2):83–5

METABOLISM

A method for in vitro culture of rat Zymbal gland: use in mechanistic studies of benzene carcinogenesis in combination with 32P–postlabeling. Reddy MV, et al. **Environ Health Perspect** 1989 Jul;82:239–47

MICROBIOLOGY

The ear canal as a culture site for demonstration of mycoplasmas in clinically normal goats. DaMassa AJ. **Aust Vet J** 1990 Jul;67(7):267–9

[Effect of radiation on the fungal flora of the external ear canal] Juan KH. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Aug; 5(8):430–5 (Eng. Abstr.) **(Chi)**

[Fungal flora of the external ear canal—influence of cancer progressing] Juan KH. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Apr; 6(4):163–7 (Eng. Abstr.) **(Chi)**

[Comparative evaluation of bacterial flora present in the external auditory canal in diabetic and normal subjects] Di Luzio Paparatti U, et al. **Riv Eur Sci Med Farmacol** 1988 Jun;10(3):241–4 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Angiolymphoid hyperplasia with eosinophilia: an uncommon tumor of the external auditory canal. Murty GE, et al. **Ear Nose Throat J** 1990 Feb;69(2):102–3, 106–7

Impacted cerumen: a disorder of keratinocyte separation in the superficial external ear canal? Robinson AC, et al. **J Otolaryngol** 1990 Apr;19(2):86–90

Bilateral internal auditory canal enlargement without acoustic nerve tumor in von Recklinghausen neurofibromatosis. Kitamura K, et al. **Neurofibromatosis** 1989;2(1):47–52

[Lateral osteoma—auditory exostosis or hamartoma?] Bader W, et al. **HNO** 1989 Nov;37(11):477–8 (Eng. Abstr.) (Ger)

[Epithelial migration following surgical obliteration of radical cavities] Pau HW, et al. **HNO** 1990 Mar;38(3):92–4 (Eng. Abstr.) (Ger)

PHYSIOLOGY

How could canal-pluggings result in intensive direction changing type of positional nystagmus? Arai Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:159–64

Open-cavity mastoid surgery: its effect on the acoustics of the external ear canal. Evans RA, et al. **Clin Otolaryngol** 1989 Aug;14(4):317–21

Estimation of eardrum acoustic pressure and of ear canal length from remote points in the canal. Chan JC, et al. **J Acoust Soc Am** 1990 Mar;87(3):1237–47

Ear canal wall mobility and tympanometric shape in young infants. Holte L, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):77–80

Jaw movement and bone-conduction in normal listeners and a unilateral hemi-mandibulectomee. Howell P, et al. **Scand Audiol** 1989;18(4):231–6

[Development of the auditory threshold during the first months of life related to modifications of the physiology of the external auditory canal] Lurquin P, et al. **Acta Otorhinolaryngol Belg** 1989;43(5):417–26 (Eng. Abstr.) (Fre)

PHYSIOPATHOLOGY

Head-shaking nystagmus: associations with canal paresis and hearing loss. Wei D, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):362–7

Effect of external auditory canal pressure upon the hearing threshold in patients with Menière's disease. Kawase T, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:87–92

Spontaneous otoacoustic emissions in chinchilla ear canals: correlation with histopathology and suppression by external tones. Clark WW, et al. **Hear Res** 1984 Dec; 16(3):299–314

[Air temperature in the outer ear canal—experimental studies in relation to radical cavity surgery] Pau HW, et al. **Laryngorhinootologie** 1990 Mar;69(3):135–9 (Eng. Abstr.) (Ger)

RADIOGRAPHY

High resolution CT findings in diseases of the external auditory canal. A review of 31 cases. Vanneste F, et al. **J Belge Radiol** 1989 Jun;72(3):199–205

SURGERY

A technique for the reconstruction of the posterior canal wall and mastoid obliteration in radical cavity surgery. Hartwein J, et al. **Am J Otol** 1990 May;11(3):169–73

Reconstruction of the middle ear with hydroxylapatite implants: long-term results. Grote JJ. **Ann Otol Rhinol Laryngol Suppl** 1990 Feb;144:12–6

Biocompatibility of clinically applied hydroxylapatite ceramic. van Blitterswijk CA, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Feb;144:3–11

Multiple trichoepithelioma occluding both external auditory canals. Bibi CO, et al. **Head Neck** 1990 May–Jun; 12(3):257–60

Total ear canal ablation combining bulla osteotomy and curettage in dogs with chronic otitis externa and media. Beckman SL, et al. **J Am Vet Med Assoc** 1990 Jan 1; 196(1):84–90

Facilitating surgical ablation of lesions in the conchal cavum and around the external auditory meatus, with subsequent 2-stage flap reconstruction. Field LM. **J Dermatol Surg Oncol** 1990 Mar;16(3):244–6

How I do it—post mastoidectomy reconstruction. Loh LE. **Singapore Med J** 1989 Dec;30(6):528–9

Chronic otitis externa and otitis media treated by total ear canal ablation and ventral bulla osteotomy in thirteen dogs. Sharp NJ. **Vet Surg** 1990 Mar–Apr;19(2):162–6

[The use of a post-auricular island flap to repair the external auditory canal] Gao HY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Sep;2(3):201–2, 235 (Eng. Abstr.) (Chi)

[A new external canal wall-preserving method for aural cholesteatoma surgery—the osteocutaneous flap] Lin IF. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Mar; 6(3):149–54 (Eng. Abstr.) (Chi)

[Reconstruction of the wall of the canal] Desaulty A, et al. **Acta Otorhinolaryngol Belg** 1989;43(1):7–18 (Eng. Abstr.) (Fre)

EAR CARTILAGES see under **EAR, EXTERNAL**

EAR DEFORMITIES, ACQUIRED

COMPLICATIONS

Pathology and pathogenesis of tympanic membrane retraction. Yoon TH, et al. **Am J Otolaryngol** 1990 Jan–Feb;11(1):10–7

ETIOLOGY

Acrobatic ears: a cause of petrified auricles. Lari AA, et al. **Br J Plast Surg** 1989 Nov;42(6):719–21

[Perichondritis of the ear caused by acupuncture] Johansen M, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):172–3 (Eng. Abstr.) (Dan)

SURGERY

Reconstruction of microtia with conchal remnant. Matsumoto K, et al. **Ann Plast Surg** 1986 Jan;16(1):32–41

Reconstructive surgery for deformities of the ear. **Clin Plast Surg** 1990 Apr;17(2):193–415

The role of tissue expansion in reconstruction of the ear. Bauer BS. **Clin Plast Surg** 1990 Apr;17(2):319–25 (18 ref.)

Tissue expansion in reconstruction of acquired auricular defects. Sasaki GH. **Clin Plast Surg** 1990 Apr;17(2):327–38 (10 ref.)

Osseointegrated implants for replacement of absent or defective ears. Tjellström A. **Clin Plast Surg** 1990 Apr; 17(2):355–66 (16 ref.)

Treatment of auricular haematoma by silicone rubber splints. Nahl SS, et al. **J Laryngol Otol** 1989 Dec;103(12):1146–9

Bat ears without tears [editorial] **Lancet** 1989 Nov 18; 2(8673):1193

Reconstruction of the concha of the ear using a postauricular island flap. Chen C, et al. **Plast Reconstr Surg** 1990 Sep; 86(3):569–72

[The repair of a partial traumatic defect of the auricles] Wang XL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):130–1 (Chi)

[Clinical application and experimental study of homologous-cartilage implantation] Zheng XM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):91–3, 156 (Eng. Abstr.) (Chi)

[Reconstruction of the ears] Maillard GF. **Rev Med Suisse Romande** 1990 Jun;110(6):527–35 (Fre)

[Surgical treatment of tumors of the external ear] Kotarba E. **Przegl Dermatol** 1990 Jan–Feb;77(1):61–7 (Eng. Abstr.) (Pol)

EAR DISEASES

see related

OTORHINOLARYNGOLOGIC DISEASES

The pathogenesis and treatment of cholesteatoma. Palva T. **Acta Otolaryngol (Stockh)** 1990 May–Jun;109(5–6):323–30 (37 ref.)

Cholesteatoma. **Otolaryngol Clin North Am** 1989 Oct; 22(5):847–1053

Cholesteatoma: what is it, how did it get there, and how do we get rid of it? Jahn AF. **Otolaryngol Clin North Am** 1989 Oct;22(5):847–57 (16 ref.)

CHEMICALLY INDUCED

Erythema and swelling of ears after treatment with cytarabine for leukemia [letter] Krulder JW, et al. **Eur J Cancer** 1990;26(5):649–50

Drug-induced ototoxicity. Pathogenesis and prevention. Huang MY, et al. **Med Toxicol Adverse Drug Exp** 1989 Nov–Dec;4(6):452–67 (188 ref.)

Aminoglycoside-induced ototoxicity. Govaerts PJ, et al. **Toxicol Lett** 1990 Aug;52(3):227–51 (142 ref.)

CLASSIFICATION

The N.I.F. classification of ossicular disorders. Lupin AJ, et al. **Am J Otol** 1989 Nov;10(6):481–4

COMPLICATIONS

Facial paralysis associated with cholesteatoma unresponsive to surgical therapy [letter] Croxson G. **Am J Otol** 1990 Jul;11(4):297–8

Ligneous conjunctivitis with ear involvement. Marcus DM, et al. **Arch Ophthalmol** 1990 Apr;108(4):514–9

Otologic disease in the acquired immunodeficiency syndrome. Morris MS, et al. **Ear Nose Throat J** 1990 Jul; 69(7):451–3 (9 ref.)

Facial molluscum contagiosum in HIV-infected patients. Ficarra G, et al. **Int J Oral Maxillofac Surg** 1989 Aug; 18(4):200–1

Ear disorders in autistic children. Gordon AG. **J Autism Dev Disord** 1989 Sep;19(3):470–3

Cerebral infarction following herpes zoster: the enlarging clinical spectrum. Joy JL, et al. **Neurology** 1989 Dec; 39(12):1640

[Otogenic thrombosis of the lateral sinus] Heitzmann P, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(1):35–41 (35 ref.) (Eng. Abstr.) (Fre)

[Indications and performance of diagnostic tympanotomy in children] Knothe J, et al. **Laryngorhinootologie** 1989 Sep; 68(9):486–9 (Eng. Abstr.) (Ger)

[A case of Ramsay Hunt syndrome] Diamante A, et al. **Minerva Med** 1989 Nov;80(11):1251–2 (Eng. Abstr.) (Ita)

[Clinical aspects of otogenic abscesses of cerebral hemispheres] Garshin MI. **Vestn Otorinolaringol** 1990 Jan–Feb;(1):4–8 (Rus)

CONGENITAL

Congenital cholesteatomas of the middle ear in children: origin and management. Levenson MJ, et al. **Otolaryngol Clin North Am** 1989 Oct;22(5):941–54 (21 ref.)

[Congenital perilymphatic fistula in children] Narcy P, et al. **Ann Otolaryngol Chir Cervicofac** 1989;106(7):449–54 (Eng. Abstr.) (Fre)

DIAGNOSIS

Comparison of computed tomography and magnetic resonance imaging in chronic otitis media with cholesteatoma. Koltai PJ, et al. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1231–3

Imaging cholesteatoma. Phelps PD, et al. **Clin Radiol** 1990 Mar;41(3):156–62

Value of middle ear inflation as a diagnostic indicator of eustachian tube patency. Luntz M, et al. **J Laryngol Otol** 1990 Feb;104(2):134–7

The dynamic posturographic pressure test for the presumptive diagnosis of perilymph fistulas. Black FO, et al. **Neurol Clin** 1990 May;8(2):361–74

State of the art temporal bone imaging. **Semin Ultrasound CT MR** 1989 Jun;10(3):177–301

Inflammatory diseases of the temporal bone: evaluation with CT and MR. Holliday RA. **Semin Ultrasound CT MR** 1989 Jun;10(3):213–35 (45 ref.)

[Cholesteatoma: clinical and surgical study] Rosique M, et al. **Acta Otorrinolaringol Esp** 1988 Jan–Feb;39(1):21–4 (Eng. Abstr.) (Spa)

DRUG THERAPY

Systemic interleukin I administration suppresses arachidonic acid-induced ear oedema in the mouse. Bäck O, et al. **Br J Dermatol** 1989 Dec;121(6):701–7

Ciprofloxacin [letter] Sterman BM. **Laryngoscope** 1989 Nov; 99(11):1211–2

Generic vs. proprietary otic drops. Hotmes WF, et al. **Trans Pa Acad Ophthalmol Otolaryngol** 1989;41:859–60

[Ototopic agents] Clarysse P, et al. **Acta Otorhinolaryngol Belg** 1989;43(3):251–65 (Eng. Abstr.) (Dut)

["Golden Star" balsam in the treatment of ear mycoses] Ibragimov GT, et al. **Vestn Otorinolaringol** 1989 Jul–Aug; (4):87–8 (Rus)

ENZYMOLOGY

A comparative study of enzyme histochemical features in the gerbilline and human cholesteatoma. Aberg B, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):130–6

EPIDEMIOLOGY

Lead and childhood propensity to infectious and allergic disorders: is there an association? Rabinowitz MB, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):657–60

ETIOLOGY

Pathology and pathogenesis of tympanic membrane retraction. Yoon TH, et al. **Am J Otolaryngol** 1990 Jan–Feb;11(1):10–7

Bacteriology of otorrhea from tympanostomy tubes. Schneider ML. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1225–6

Pathogenesis of cholesteatoma based on clinical results of anterior tympanotomy. Morimitsu T, et al. **Auris Nasus Larynx** 1989;16 Suppl 1:S9–14

Acrobatic ears: a cause of petrified auricles. Lari AA, et al. **Br J Plast Surg** 1989 Nov;42(6):719–21

The lamina propria and cholesteatoma. Ars B, et al. **Clin Otolaryngol** 1989 Oct;14(5):471–5

Intra-tympanic membrane bleeding after grommet insertion and tympanosclerosis. Parker AJ, et al. **Clin Otolaryngol** 1990 Jun;15(3):203–7

Sauna habits and related symptoms in Finnish children. Markkola L, et al. **Eur J Pediatr** 1989 Dec;149(3):221–2

Duro-cutaneous fistula caused by a 'congenital' cholesteatoma. Viani L, et al. **J Laryngol Otol** 1990 Mar; 104(3):241–3

The risk of cholesteatoma in congenital aural stenosis. Cole RR, et al. **Laryngoscope** 1990 Jun;100(6):576–8

Pathogenesis of cholesteatoma. Sculerati N, et al. **Otolaryngol Clin North Am** 1989 Oct;22(5):859–68 (18 ref.)

Infection as a consequence of ear piercing. George J, et al. **Practitioner** 1989 Mar 22;233(1465):404–6

Otologic manifestations of Down's syndrome. Balkany TJ, et al. **Surg Forum** 1978;29:582–5

[Otorhinolaryngologic involvement in cystic fibrosis] Denoyelle F, et al. **Ann Otolaryngol Chir Cervicofac** 1990; 107(3):200–3; discussion 203–4 (Eng. Abstr.) (Fre)

[Isolated ankylosis of the malleus] Desaulty A, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(1):7–14 (Eng. Abstr.) (Fre)

[Profuse auricular hemorrhage caused by lesion of the sigmoid sinus associated with arterio-sinus anastomosis] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1990 Jan–Feb;(1):80–1 (Rus)

[Cholesteatoma of the tympanic cavity caused by osteoma of the mastoid process] Savić D, et al. **Srp Arh Celok Lek** 1987 May–Jun;115(5–6):609–14 (Eng. Abstr.) (Scc)

[Cranioencephalic traumatism. Audiovestibular sequelae]

Llano JA, et al. **Acta Otorrinolaringol Esp** 1989 Sep–Oct; 40(5):349–53 (Eng. Abstr.) **(Spa)**

GENETICS

The otolaryngologic manifestations of Pelizaeus–Merzbacher disease. Feldman JI, et al.
Arch Otolaryngol Head Neck Surg 1990 May;116(5):613–6

IMMUNOLOGY

Activation of peritoneal macrophages with human cholesteatoma debris and alpha–keratin. Iino Y, et al.
Acta Otolaryngol (Stockh) 1990 May–Jun;109(5–6):444–9

METABOLISM

Localization of interleukin–1 in human cholesteatoma. Ahn JM, et al. **Am J Otolaryngol** 1990 Mar–Apr;11(2):71–7

Cytokeratins in induced epidermoid formations and cholesteatoma lesions. Vennix PP, et al.
Arch Otolaryngol Head Neck Surg 1990 May;116(5):560–5

Keratinization of middle ear cholesteatomas. II. A histochemical study of epidermal transglutaminase substrates. Broekaert D, et al.
Eur Arch Otorhinolaryngol 1990;247(5):318–22

Keratinization of middle ear cholesteatomas. I. A histochemical study of epidermal transglutaminase. Broekaert D, et al. **Eur Arch Otorhinolaryngol** 1990; 247(5):312–7

PATHOLOGY

The spatial organisation of keratinocytes in acquired middle ear cholesteatoma resembles that of external auditory canal skin and pars flaccida. Youngs R, et al.
Acta Otolaryngol (Stockh) 1990 Jul–Aug;110(1–2):115–9

A case of recurrent aural cholesteatoma extending into the middle cranial fossa. Harada T, et al.
Auris Nasus Larynx 1990;16(4):209–13

Impacted cerumen: a disorder of keratinocyte separation in the superficial external ear canal? Robinson AC, et al.
J Otolaryngol 1990 Apr;19(2):86–90

Pathological lesions of the external auditory meatus: a review. Friedmann I. **J R Soc Med** 1990 Jan;83(1):34–7 (21 ref.)

The surgical anatomy of cholesteatoma. Jackler RK.
Otolaryngol Clin North Am 1989 Oct;22(5):883–96 (32 ref.)

Biology of cholesteatoma. Michaels L.
Otolaryngol Clin North Am 1989 Oct;22(5):869–81 (18 ref.)

[Malherbe's calcifying cyst. Apropos of an unusual case in the middle ear. Histopathogenic value] Bouton V, et al.
Ann Otolaryngol Chir Cervicofac 1990;107(2):137–40 (Eng. Abstr.) **(Fre)**

[Histologic study of cholesteatoma in surgically treated otorrhea] González Méndez MV, et al.
Acta Otorrinolaringol Esp 1989 Jul–Aug;40(4):283–4 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

ECoG and perilymphatic fistulae: an experimental study in the guinea pig. Gulya AJ, et al.
Otolaryngol Head Neck Surg 1990 Feb;102(2):132–9

Summating potential/action potential ratio in perilymph fistula. Meyerhoff WL, et al.
Otolaryngol Head Neck Surg 1990 Jun;102(6):678–82

PREVENTION & CONTROL

The effect of isotretinoin on propylene glycol–induced cholesteatoma in chinchilla middle ears. Jove MA, et al.
Am J Otolaryngol 1990 Jan–Feb;11(1):5–9

Guidelines for screening for hearing impairment and middle–ear disorders. Working Group on Acoustic Immittance Measurements and the Committee on Audiologic Evaluation. American Speech–Language–Hearing Association. **ASHA** 1990 Apr; 32(4 Suppl 2):17–24

RADIOGRAPHY

Contemporary radiologic imaging in the evaluation of middle ear–attic–antral complex cholesteatomas. Liu DP, et al.
Otolaryngol Clin North Am 1989 Oct;22(5):897–909 (15 ref.)

[Radiologic diagnosis of the middle ear. Possibilities and perspectives] Grevers G, et al. **Laryngorhinootologie** 1989 Sep;68(9):481–5 (12 ref.) (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

[Helium–neon lasers in clinical and experimental otology] Mishen'kin NV, et al. **Vestn Otorinolaringol** 1990 May–Jun; (3):71–7 (115 ref.) **(Rus)**

SURGERY

Cartilage palisade tympanoplasty. Amedee RG, et al.
Am J Otol 1989 Nov;10(6):447–50

Single–stage surgery for cholesteatoma: an actuarial analysis. Austin DF. **Am J Otol** 1989 Nov;10(6):419–25

A technique for the reconstruction of the posterior canal wall and mastoid obliteration in radical cavity surgery. Hartwein J, et al. **Am J Otol** 1990 May;11(3):169–73

Applications of the KTP laser in chronic ear surgery. Thedinger BS. **Am J Otol** 1990 Mar;11(2):79–84

Surgical treatment of cholesteatoma: a comparison of three techniques. Toner JG, et al. **Am J Otol** 1990 Jul;11(4):247–9

The retraction pocket in the treatment of cholesteatoma. Austin DF. **Arch Otolaryngol** 1976 Dec;102(12):741–3

Hearing after surgery for cholesteatoma using various techniques. Tos M, et al. **Auris Nasus Larynx** 1989; 16(2):61–73

Open–cavity mastoid surgery: its effect on the acoustics of the external ear canal. Evans RA, et al.
Clin Otolaryngol 1989 Aug;14(4):317–21

Has the increasing use of grommets influenced the frequency of surgery for cholesteatoma? Padgham N, et al.
J Laryngol Otol 1989 Nov;103(11):1034–5

Middle fossa arachnoid cyst eroding into the middle ear: case report. Haworth CS, et al. **Neurosurgery** 1990 Jan; 26(1):154–5

Surgical management of labyrinthine fistulae in chronic otitis media with cholesteatoma by a one–stage closed technique. Ostri B, et al. **ORL J Otorhinolaryngol Relat Spec** 1989; 51(5):295–9

Selection of cases and classification of tympanoplasty. Bellucci RJ. **Otolaryngol Clin North Am** 1989 Oct; 22(5):911–26 (21 ref.)

Acquired cholesteatoma in the pediatric age group. Edelstein DR, et al. **Otolaryngol Clin North Am** 1989 Oct; 22(5):955–66

Surgical techniques and recidivism in cholesteatoma. Edelstein DR, et al. **Otolaryngol Clin North Am** 1989 Oct; 22(5):1029–40 (23 ref.)

Surgical approaches to cholesteatoma. Farrior JB.
Otolaryngol Clin North Am 1989 Oct;22(5):1015–28 (22 ref.)

Management of cholesteatoma. Parisier SC.
Otolaryngol Clin North Am 1989 Oct;22(5):927–40

Validating the excision of cholesteatoma. Schuring AG.
Otolaryngol Clin North Am 1989 Oct;22(5):1041–53

Acquired cholesteatoma in adults. Sheehy JL.
Otolaryngol Clin North Am 1989 Oct;22(5):967–79 (9 ref.)

Ossicular reconstruction in ears with cholesteatoma. Wehrs RE. **Otolaryngol Clin North Am** 1989 Oct;22(5):1003–13

Is there consensus in perilymph fistula management? Hughes GB, et al. **Otolaryngol Head Neck Surg** 1990 Feb; 102(2):111–7

Management of auricular hematomas with suction assisted lipectomy apparatus. Krugman ME.
Otolaryngol Head Neck Surg 1989 Oct;101(4):504–5

A silastic prosthesis for total replacement of the middle–ear ossicular chain, its acoustic properties and clinical application. Voldřich Z, et al. **Polim Med** 1989; 19(3–4):127–36

[A new external canal wall–preserving method for aural cholesteatoma surgery—the osteocutaneous flap] Lin IF. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Mar; 6(3):149–54 (Eng. Abstr.) **(Chi)**

[Hearing in patients with chronic otitis media and cholesteatoma] Prucha I, et al. **Cesk Otolaryngol** 1989 Sep; 38(5):289–96 (Eng. Abstr.) **(Cze)**

[Reconstruction of the wall of the canal] Desaulty A, et al.
Acta Otorhinolaryngol Belg 1989;43(1):7–18 (Eng. Abstr.) **(Fre)**

[Endoscopy and cophosurgery] Martin C, et al.
Ann Otolaryngol Chir Cervicofac 1989;106(7):523–4 (Eng. Abstr.) **(Fre)**

[The sympatho–adrenergic stress reaction in ear surgery using various anesthesia technics] Bachmann–M B, et al.
Laryngorhinootologie 1989 Sep;68(9):493–8 (Eng. Abstr.) **(Ger)**

[What can I do in ear hematoma?] Wustrow TP.
Laryngorhinootologie 1989 Nov;68(11):642 **(Ger)**

[Factors determining the choice of technic in surgical treatment of cholesteatoma] Antoli–Candela Cano F, et al.
Acta Otorrinolaringol Esp 1989 Dec;40 Suppl 2:203–10 (Eng. Abstr.) **(Spa)**

THERAPY

Treatment of postoperative otorrhoea by grafting of mastoid cavities with cultured autologous epidermal cells [see comments] Premachandra DJ, et al. **Lancet** 1990 Feb 17; 335(8686):365–7 Comment in: Lancet 1990 Jun 16;335(8703):1472–3.

VETERINARY

Eradication of ear mites from naturally infested conventional research rabbits using ivermectin. Curtis SK, et al.
Lab Anim Sci 1990 Jul;40(4):406–8

[The effect of ivermectin on Psoroptes ear mange in rabbits] Koopman JP, et al. **Tijdschr Diergeneeskd** 1989 Aug 15; 114(15–16):825–8 (Eng. Abstr.) **(Dut)**

EAR, EXTERNAL

Pseudocyst of the auricle [letter] Cohen PR, et al.
Am J Med 1990 Aug;89(2):249–50 (8 ref.)

Totally implantable hearing aids: the effects of skin thickness on microphone function. Deddens AE, et al.
Am J Otolaryngol 1990 Jan–Feb;11(1):1–4

Borderline personality and multiple earrings: a possible correlation? [letter] Ali AH. **Am J Psychiatry** 1990 Sep; 147(9):1251

Invalid information from the ear probe of a pulse oximeter in tricuspid incompetence [letter] Skacel M, et al.
Anaesth Intensive Care 1990 May;18(2):270

Ossified auricle in Addison's disease. Talmi YP, et al.
Ann Otol Rhinol Laryngol 1990 Jun;99(6 Pt 1):499–500

Evaluation of porous polyethylene for external ear reconstruction. Shanbhag A, et al. **Ann Plast Surg** 1990 Jan;24(1):32–9

Neurofibroma of the ear. Stevenson TR, et al.
Ann Plast Surg 1986 Aug;17(2):151–4

Acute Pseudomonas chondritis as a sequel to ear piercing. Turkeltaub SH, et al. **Ann Plast Surg** 1990 Mar;24(3):279–82

Erythematous auricular papules. Angiolymphoid hyperplasia with eosinophilia. McCreedy CA, et al. **Arch Dermatol** 1990 Sep;126(9):1226–7, 1229

Ossification of the auricular cartilages in patients with adrenal insufficiency [letter] Talmi YP, et al.
Arch Otolaryngol Head Neck Surg 1989 Oct;115(10):1254–5

Cancer of the auricle. Lin JC, et al.
Chung Hua I Hsueh Tsa Chih 1990 Apr;45(4):233–40

Juvenile spring eruption of the ears. Berth–Jones J, et al.
Clin Exp Dermatol 1989 Nov;14(6):462–3

Nickel dermatitis from cheap earrings. Santucci B, et al.
Contact Dermatitis 1989 Oct;21(4):245–8

Osseointegration in maxillofacial prosthetics. Ismail JY, et al. **Dent Clin North Am** 1990 Apr;34(2):327–41

Cancer of the periauricular region. Levine HL, et al.
Dermatol Clin 1989 Oct;7(4):781–95 (14 ref.)

Effects of auricular acupuncture–like transcutaneous electric nerve stimulation on pain levels following wound care in patients with burns: a pilot study. Lewis SM, et al.
J Burn Care Rehabil 1990 Jul–Aug;11(4):322–9 (26 ref.)

Atypical auricular pyoderma gangrenosum simulating fungal infection. Lysy J, et al. **J Clin Gastroenterol** 1989 Oct; 11(5):561–4

The American curl cat. Robinson R. **J Hered** 1989 Nov–Dec; 80(6):474–5

New technique for treating pseudocyst of the auricle. Zhu LX, et al. **J Laryngol Otol** 1990 Jan;104(1):31–2

Framework night guards for implant–retained auricular prostheses. Arcuri MR. **J Prosthet Dent** 1989 Sep; 62(3):325–7

Auricular chondritis in Wistar rats. McEwen BJ, et al.
Lab Anim 1990 Jul;24(3):280–3

Hypothesis: symmetrical cutaneous lymphoma [see comments] Goudie RB, et al. **Lancet** 1990 Feb 10; 335(8685):316–8 Comment in: Lancet 1990 May 5;335(8697):1097.

Why more keloids on back than on front of earlobe [letter] Slobodkin D. **Lancet** 1990 Apr 14;335(8694):923–4

Otolaryngologic manifestations of porphyria cutanea tarda. Bukachevsky R, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):402–8

Disorders of the external ear. Amundson LH. **Prim Care** 1990 Jun;17(2):213–31 (46 ref.)

The effects of sterilization on the accuracy of silicone ear impression materials. Salem NS, et al. **Scand Audiol** 1989; 18(3):131–3

Pinnal oncocytoma in a rat. Kanjo M, et al. **Vet Pathol** 1990 Jul;27(4):292–4

[Auricular perichondritis caused by acupuncture therapy (letter)] Sørensen T. **Ugeskr Laeger** 1990 Mar 12; 152(11):752–3 **(Dan)**

[Photodynamic laser tumor therapy with a hematoporphyrin derivative in spinocellular carcinoma of the external ear] Feyh J, et al. **Laryngorhinootologie** 1989 Oct;68(10):563–5 (Eng. Abstr.) **(Ger)**

[Cutaneous leishmaniasis of the ear muscle. A case report] Negri B, et al. **Laryngorhinootologie** 1990 May;69(5):281–4 (Eng. Abstr.) **(Ger)**

[What is your diagnosis? Chronic nodular chondrodermatitis of the helix of the ear] Flückiger R.
Schweiz Rundsch Med Prax 1990 Jun 26;79(26):817–8 **(Ger)**

[The diagnosis, evolution and treatment of cavum conchae neoplasms based on cases from the Colţea Radiology and ENT Clinics] Pană I, et al. **Rev Chir [Otorinolaringol]** 1989 Apr–Jun;34(2):91–7 (Eng. Abstr.) **(Rum)**

[Metastasis of primary melanoma of the auricle to the small intestine] Sytnik AP, et al. **Khirurgiia (Mosk)** 1990 Apr; (4):121–2 **(Rus)**

[Relapsing polychondritis: a connective tissue disease of the ORL system] Bernat Gili A, et al.
Acta Otorrinolaringol Esp 1988 Nov–Dec;39(6):434–7 **(Spa)**

[Pathology of the external ear. A year's review] Dalmau Galofre J, et al. **Acta Otorrinolaringol Esp** 1990 Mar–Apr; 41(2):89–92 (Eng. Abstr.) **(Spa)**

[von Recklinghausen's disease with a neurofibroma of the external ear] Gil–Carcedo LM, et al.
Acta Otorrinolaringol Esp 1988 Jul–Aug;39(4):263–8 (54 ref.) (Eng. Abstr.) **(Spa)**

[Mixed tumor of the external auditory canal] Lahoz Zamarro MT, et al. **Acta Otorrinolaringol Esp** 1990 Jan–Feb; 41(1):53–6 (Eng. Abstr.) **(Spa)**

[Facial paralysis caused by retroauricular basal cell carcinoma] Ramos Macías A, et al.
Acta Otorrinolaringol Esp 1990 Jan–Feb;41(1):57–60 (Eng. Abstr.) **(Spa)**

[Intracranial invasion of a tumor of the ear] Vicente González EA, et al. **Acta Otorrinolaringol Esp** 1989 Nov–Dec; 40(6):454–7 (19 ref.) (Eng. Abstr.) **(Spa)**

[Basal cell epithelioma of the external auditory canal] Viscasillas Seguí S, et al. **An Otorrinolaringol Ibero Am** 1990;17(2):165–70 **(Spa)**

ABNORMALITIES

Transplants and implants for major ear anomalies. Suzuki J, et al. **Acta Otorhinolaryngol Belg** 1988;42(6):784–8

Oto-palato-digital syndrome [letter] Gorlin RJ. **Am J Dis Child** 1967 Aug;114(2):215

Kabuki makeup syndrome (Niikawa–Kuroki syndrome) in a black child. PeBenito R, et al. **Ann Ophthalmol** 1989 Aug; 21(8):312–5

External and middle ear malformations: autosomal dominant genetic transmission. Oliveira CA, et al. **Ann Otol Rhinol Laryngol** 1989 Oct;98(10):772–6

Treatment of asymptomatic preauricular sinuses: challenging conventional wisdom. Chami RG, et al. **Ann Plast Surg** 1989 Nov;23(5):406–11

Secondary ear reconstruction using deep temporal fascia after temporoparietal fascial reconstruction in microtia. Hirase Y, et al. **Ann Plast Surg** 1990 Jul;25(1):53–7

Reconstruction of microtia with conchal remnant. Matsumoto K, et al. **Ann Plast Surg** 1986 Jan;16(1):32–41

Analgesia for 'bat ear' surgery. Burtles R. **Ann R Coll Surg Engl** 1989 Sep;71(5):332

Who's in CHARGE? Multidisciplinary management of patients with CHARGE association. Blake KD, et al. **Arch Dis Child** 1990 Feb;65(2):217–23

Aesthetic surgery for microtia. Boudard P, et al. **Arch Otorhinolaryngol** 1989;246(5):349–52

Lax ligament syndrome in children associated with blue sclera and bat ears. Howard FM. **Br J Gen Pract** 1990 Jun;40(335):233–5

Congenital earlobe cleft: a new technique for repair. Attalla MF. **Br J Plast Surg** 1990 Mar;43(2):223–5

Anterior scoring for bat ears; the story so far. Maisels DO. **Br J Plast Surg** 1990 May;43(3):349

The value of head dressings in the postoperative management of the prominent ear. Powell BW. **Br J Plast Surg** 1989 Nov;42(6):692–4

Genetics of hairy ears in south Indians. Kamalam A, et al. **Clin Exp Dermatol** 1990 May;15(3):192–4

Skin mastocytosis with short stature, conductive hearing loss and microtia: a new syndrome. Wolach B, et al. **Clin Genet** 1990 Jan;37(1):64–8

Congenital aural atresia. Cole RR, et al. **Clin Plast Surg** 1990 Apr;17(2):367–71 (5 ref.)

Nonsurgical correction of congenital auricular deformities. Matsuo K, et al. **Clin Plast Surg** 1990 Apr;17(2):383–95 (2 ref.)

Reconstruction of microtia. Pursuing a natural appearance. Nakai H. **Clin Plast Surg** 1990 Apr;17(2):287–304 (33 ref.)

Reconstruction of microtia using tissue expander. Tanino R, et al. **Clin Plast Surg** 1990 Apr;17(2):339–53 (9 ref.)

Osseointegrated implants for replacement of absent or defective ears. Tjellström A. **Clin Plast Surg** 1990 Apr; 17(2):355–66 (16 ref.)

Congenital heart disease and external ear anomalies with hearing loss: a report of two new cases and a review of the literature. Roizin H, et al. **J Craniofac Genet Dev Biol** 1989;9(3):225–30

Nonsurgical correction of auricular deformities. Millay DJ, et al. **Laryngoscope** 1990 Aug;100(8):910–3

Management of congenital preauricular pit and sinus tract in children. Prasad S, et al. **Laryngoscope** 1990 Mar; 100(3):320–1

Functional and cosmetic surgery of nose and ear deformities in children and adolescents. Nachlas NE, et al. **Md Med J** 1990 Jul;39(7):655–9

Congenital malformations of the external, middle, and inner ear produced by isotretinoin exposure in mouse embryos. Jarvis BL, et al. **Otolaryngol Head Neck Surg** 1990 Apr; 102(4):391–401

Management strategies for congenital ear malformations. Eavey RD. **Pediatr Clin North Am** 1989 Dec;36(6):1521–34 (13 ref.)

Correction of congenital microtia using the tissue expander. Hata Y, et al. **Plast Reconstr Surg** 1989 Nov;84(5):741–51; discussion 752–3

[Clinical application and experimental study of homologous–cartilage implantation] Zheng XM. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Jun;6(2):91–3, 156 (Eng. Abstr.) (Chi)

[1–stage reconstruction of microtia associated with hemifacial soft tissue aplasia] Zhou G. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Mar;6(1):20–1, 74 (Eng. Abstr.) (Chi)

[Reconstruction of the ears] Maillard GF. **Rev Med Suisse Romande** 1990 Jun;110(6):527–35 (Fre)

[Diastrophic dysplasia. A congenital syndrome with remarkable changes of the external ear and stridor] Godbersen GS, et al. **HNO** 1990 Jul;38(7):256–8 (Eng. Abstr.) (Ger)

[Clinical assessment of ear size in children and adolescents] Pelz L, et al. **Padiatr Grenzgeb** 1990;29(3):229–35 (Eng. Abstr.) (Ger)

[Late results of corrective surgery of protruding external ears] Härtel J, et al. **Zentralbl Chir** 1990;115(3):161–4 (Eng. Abstr.) (Ger)

[Hypertrophy of the concha of the auricle. Details of the technic] Ubiglia GP, et al. **Minerva Stomatol** 1989 Aug; 38(8):877–9 (Eng. Abstr.) (Ita)

[High–resolution computed tomography in the diagnosis of branchial otodysplasias. A report on 10 cases (15 ears)] Gugliantini P, et al. **Radiol Med (Torino)** 1989 Dec; 78(6):593–602 (Eng. Abstr.) (Ita)

[Classification and surgical repair of congenital ear lobe anomalies] Maruoka K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Nov;92(11):1939–46 (Eng. Abstr.) (Jpn)

[A new syndrome of mental retardation and chromosomic instability in 3 siblings] Carnevale A, et al. **Rev Invest Clin** 1989 Jul–Sep;41(3):259–64 (Eng. Abstr.) (Spa)

ANATOMY & HISTOLOGY

Anthropometric research of the lateral surface and the edge of the ears in grown–up Bulgarians. Madzharov MM. **Acta Chir Plast** 1989;31(2):74–83

Diagonal ear–lobe crease: possible significance as cardio–vascular risk factor and its relationship to ear–acupuncture. Romoli M, et al. **Acupunct Electrother Res** 1989;14(2):149–54

Ear lobe crease and coronary artery disease in patients undergoing coronary arteriography. Kenny DJ, et al. **Cardiology** 1989;76(4):293–8

Anatomy of the auricle. Allison GR. **Clin Plast Surg** 1990 Apr;17(2):209–12 (11 ref.)

Anthropometry of the normal and defective ear. Farkas LG. **Clin Plast Surg** 1990 Apr;17(2):213–21 (8 ref.)

Creased ear lobes [letter; comment] Kenny D. **Lancet** 1989 Oct 28;2(8670):1037 Comment on: Lancet 1989 Sep 16;2(8664):676–7.

BLOOD SUPPLY

A comparison of sclerosing agents: clinical and histologic effects of intravascular sodium tetradecyl sulfate and chromated glycerin in the dorsal rabbit ear vein. Martin DE, et al. **J Dermatol Surg Oncol** 1990 Jan;16(1):18–22

Effects of normovolemic hemodilution on blood flow in the rabbit ear. Frost–Arner L, et al. **Microsurgery** 1990; 11(1):19–24

[A scanning electron microscopic study on the arteriovenous anastomoses of rabbit ear using corrosive resin casts] Kawato F, et al. **Kaibogaku Zasshi** 1989 Jun;64(3):185–95 (Eng. Abstr.) (Jpn)

[Morphofunctional asymmetry of the microvascular bed of the rabbit concha auriculae] Mikhallichenko LA, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):162–3 (Eng. Abstr.) (Rus)

CYTOLOGY

Quantitative study of circadian variations in mast cell number in different regions of the mouse. Chen XJ, et al. **Acta Anat (Basel)** 1989;136(3):222–5

INJURIES

Successful replantation of a totally amputated ear. Sadove RC. **Ann Plast Surg** 1990 Apr;24(4):366–70

A technique to treat wrestler's auricular hematoma [letter; comment] Zohar Y, et al. **Arch Otolaryngol Head Neck Surg** 1990 Mar;116(3):359 Comment on: Arch Otolaryngol Head Neck Surg 1989 Feb;115(2):202–6.

Microsurgical replantation of the external ear. Turpin IM. **Clin Plast Surg** 1990 Apr;17(2):397–404 (16 ref.)

Embedded earrings: a complication of the ear–piercing gun. Muntz HR, et al. **Int J Pediatr Otorhinolaryngol** 1990 Mar; 19(1):73–6

Management of auricular hematomas with suction assisted lipectomy apparatus. Krugman ME. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):504–5

[Therapy of ear hematoma and ear seroma] Maurer J, et al. **HNO** 1990 Jun;38(6):214–6 (Eng. Abstr.) (Ger)

[What can I do in ear hematoma?] Wustrow TP. **Laryngorhinootologie** 1989 Nov;68(11):642 (Ger)

[Treatment of traumatic oto–hematoma with transfixed compression sutures] Robotti E, et al. **Minerva Chir** 1990 Mar 15;45(5):285–8 (Eng. Abstr.) (Ita)

[Diagnosis, classification and treatment of burns of the auricular conchae] Boenko SK, et al. **Klin Khir** 1990; (3):15–7 (Eng. Abstr.) (Rus)

[Burns of the auricular conchae, their complications and treatment] Boenko SK, et al. **Vestn Otorinolaringol** 1990 Mar–Apr;(2):11–3 (Eng. Abstr.) (Rus)

INNERVATION

Preserving the great auricular nerve in parotid surgery. Brown JS, et al. **Br J Oral Maxillofac Surg** 1989 Dec; 27(6):459–66

[The inhibitory reactions of the gastroduodenal zone during electrical stimulation of the area of the afferent innervation by the vagus nerve on the human external ear] Repin AA, et al. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):121–6 (Rus)

[A device based on the use of single–crystal microcomputers for auricular diagnosis and therapy] Ishchenko AN, et al. **Med Tekh** 1990 Mar–Apr;(2):25–7 (Eng. Abstr.) (Rus)

METABOLISM

Acute release of plasminogen activator by ethyl alcohol in the isolated perfused pig ear. Klöcking HP, et al. **Pharmazie** 1990 May;45(5):378–9

MICROBIOLOGY

[Bacterial flora of the external ear: preliminary data] Cavallo GP, et al. **G Batteriol Virol Immunol** 1988 Jan–Dec; 81(1–12):129–31 (Ita)

PATHOLOGY

Dermoid cyst of the auricle: report of two cases. Ikeda M, et al. **Auris Nasus Larynx** 1990;16(4):193–7

Cartilaginous pseudocyst of the external auricle in children with atopic eczema. Devlin J, et al. **Br J Dermatol** 1990 May;122(5):699–704

An earlobe lesion and a lung nodule [letter] Cregler LL. **Chest** 1990 Mar;97(3):764–5

Elastotic nodules of the ears. Requena L, et al. **Cutis** 1989 Dec;44(6):452–4

Earlobe crease and atherosclerosis. An autopsy study. Ishii T, et al. **J Am Geriatr Soc** 1990 Aug;38(8):871–6

Ossification of the auricle in Addison's disease. Cohen AM, et al. **J Laryngol Otol** 1989 Sep;103(9):885–6

Pathological lesions of the external auditory meatus: a review. Friedmann I. **J R Soc Med** 1990 Jan;83(1):34–7 (21 ref.)

Solitary congenital nodular calcification of Winer located on the ear: report of two cases. Azón–Masoliver A, et al. **Pediatr Dermatol** 1989 Sep;6(3):191–3

[Perichondritis of the ear caused by acupuncture] Johansen M, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):172–3 (Eng. Abstr.) (Dan)

[Biopsy of the external ear in diabetology] Papić Z, et al. **Med Pregl** 1989;42(3–4):102–8 (Eng. Abstr.) (Scr)

[Keratoacanthoma centrifugum of Miedzinski and Kozakiewicz] Grinspan Bozza NO, et al. **Med Cutan Ibero Lat Am** 1989;17(4):234–8 (Eng. Abstr.) (Spa)

PHYSIOLOGY

Brain electrical field measurements unaffected by linked earlobes reference. Gonzalez Andino SL, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):155–60

Direction–dependent spectral properties of cat external ear: new data and cross–species comparisons. Musicant AD, et al. **J Acoust Soc Am** 1990 Feb;87(2):757–81

[Transmission of changes in the external ear atmospheric pressure to the perilymph] Nishihara S. **Nippon Jibiinkoka Gakkai Kaiho** 1990 May;93(5):707–15 (Eng. Abstr.) (Jpn)

[Effect of retroauricular galvanic stimulation on the central vestibular system—immunohistochemical evaluation of GABA] Okami K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Mar;93(3):428–36 (Eng. Abstr.) (Jpn)

SURGERY

Auriculoplasty for keloid scars. Bondar VS. **Acta Chir Plast** 1989;31(2):101–7

Reconstruction of middle–third auricular defect based on aesthetic perception theory. Chang YL, et al. **Aesthetic Plast Surg** 1990 Summer;14(3):223–5

Ear replantation combined with local flaps. Elsahy NI. **Ann Plast Surg** 1986 Aug;17(2):102–11

Cleft earlobe repair. Fearon J, et al. **Ann Plast Surg** 1990 Mar;24(3):252–7

Re: Elsahy: ear reconstruction [letter] Field LM. **Ann Plast Surg** 1986 Jan;16(1):86

Reconstruction of microtia with conchal remnant. Matsumoto K, et al. **Ann Plast Surg** 1986 Jan;16(1):32–41

Reverse–flow postauricular arterial flap for auricular reconstruction. Park C, et al. **Ann Plast Surg** 1989 Oct; 23(4):369–74

Follow–up study of reconstructed auricle in microtia: comparison of the results of the rib cartilage framework and the silicone rubber framework methods. Matsunaga T, et al. **Auris Nasus Larynx** 1989;16(2):75–88

Anterior scoring for bat ears; the story so far. Maisels DO. **Br J Plast Surg** 1990 May;43(3):349

The value of head dressings in the postoperative management of the prominent ear. Powell BW. **Br J Plast Surg** 1989 Nov;42(6):692–4

Malignant melanoma of the external ear. Ward NO, et al. **Cancer** 1968 Feb;21(2):226–33 (45 ref.)

Reconstructive surgery for deformities of the ear. **Clin Plast Surg** 1990 Apr;17(2):193–415

The role of tissue expansion in reconstruction of the ear. Bauer BS. **Clin Plast Surg** 1990 Apr;17(2):319–25 (18 ref.)

Otoplasty: a combined approach. Elliott RA Jr. **Clin Plast Surg** 1990 Apr;17(2):373–81 (25 ref.)

Long–term evaluation of modified Tanzer ear reconstruction. Fukuda O. **Clin Plast Surg** 1990 Apr;17(2):241–9 (11 ref.)

Complications of surgery of the external ear. Furnas DW. **Clin Plast Surg** 1990 Apr;17(2):305–18 (19 ref.)

Technique of total ear reconstruction with open framework, composite pseudomeatus graft, and postauricular transposition flap. Ishiki N. **Clin Plast Surg** 1990 Apr; 17(2):263–72 (23 ref.)

Staged, laminated, costal cartilage framework for ear reconstruction. Matsumoto K, et al. **Clin Plast Surg** 1990 Apr;17(2):273–85 (16 ref.)

Reconstruction of the ear after tumor excision. Menick FJ. **Clin Plast Surg** 1990 Apr;17(2):405–15 (12 ref.)

Overview of experience of Tanzer's group with microtia. Rueckert F, et al. **Clin Plast Surg** 1990 Apr;17(2):223–40 (42 ref.)

Tissue expansion in reconstruction of acquired auricular

defects. Susaki GH. **Clin Plast Surg** 1990 Apr;17(2):327–38 (10 ref.)

One-stage total reconstruction of the ear with simultaneous tympanoplasty. Song YG, et al. **Clin Plast Surg** 1990 Apr; 17(2):251–61 (12 ref.)

A hierarchy of values in the design and construction of the ear. Tolleth H. **Clin Plast Surg** 1990 Apr;17(2):193–207 (15 ref.)

Auricular wedge resection and reconstruction. Kitchens GG. **Ear Nose Throat J** 1989 Sep;68(9):673–4, 677–9, 683

Ear preservation in the surgical treatment of auricular melanoma. Cohen BJ, et al. **Head Neck** 1990 Jul–Aug; 12(4):346–51

Ear trimming in dogs [letter] Jacobs FS. **J Am Vet Med Assoc** 1990 Mar 1;196(5):679–80

Carbon dioxide laser removal of a verrucous sarcoid from the ear of a horse. Palmer SE. **J Am Vet Med Assoc** 1989 Oct 15;195(8):1125–7

Facilitating surgical ablation of lesions in the conchal cavum and around the external auditory meatus, with subsequent 2-stage flap reconstruction. Field LM. **J Dermatol Surg Oncol** 1990 Mar;16(3):244–6

Treatment of auricular haematoma by silicone rubber splints. Nahl SS, et al. **J Laryngol Otol** 1989 Dec;103(12):1146–9

Correction of the enlarged earlobe: auricular lobuloplasty—an adjunctive face-lift procedure. McCollough EG, et al. **Laryngoscope** 1989 Nov; 99(11):1193–4

Ear salvage by the temporoparietal fascial island flap [letter] Bardsley AF. **Plast Reconstr Surg** 1989 Dec;84(6):1010

Reconstruction of the concha of the ear using a postauricular island flap. Chen C, et al. **Plast Reconstr Surg** 1990 Sep; 86(3):569–72

Rat ear reattachment as an animal model. Chiu DT, et al. **Plast Reconstr Surg** 1990 May;85(5):782–8

Ear reduction [letter; comment] Clark RP. **Plast Reconstr Surg** 1990 Feb;85(2):316–7 Comment on: Plast Reconstr Surg 1989 Jun;83(6):967–75.

Technique for correction of lop ear. Elsahy NI. **Plast Reconstr Surg** 1990 Apr;85(4):615–20

Microtia reconstruction: does the cartilage framework grow? Thomson HG, et al. **Plast Reconstr Surg** 1989 Dec; 84(6):908–15

A method for repositioning the external ear. Whitaker LA, et al. **Plast Reconstr Surg** 1990 Jul;86(1):128–32

Infection as a consequence of ear piercing. George J, et al. **Practitioner** 1989 Mar 22;233(1465):404–6

[Plasticity of glutaraldehyde-treated heterogeneous cartilage (porcine ear) and its clinical application] Chen B. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):171–2 **(Chi)**

[Reconstruction of congenital microtia (anotus), experiences and lessons] Hao ZR. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):175–7 **(Chi)**

[Piercing the earlobe with a seton] Wang GC. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1986 Mar;2(1):71 **(Chi)**

[The repair of a partial traumatic defect of the auricles] Wang XL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):130–1 **(Chi)**

[Silicon rubber with steel wire as a scaffold in ear reconstruction] Yang PY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Sep;4(3):169–70 **(Chi)**

[Reconstruction of the external ear in children. Contribution of the clay model cartilage sculpture] Disant F, et al. **Pediatrie** 1990;45(3):181–5 (6 ref.) (Eng. Abstr.) **(Fre)**

[Surgical principles in the correction of loop ears] Zigiotti GL, et al. **Acta Otorhinolaryngol Ital** 1989 Jul–Aug; 9(4):403–11 (Eng. Abstr.) **(Ita)**

[Surgical treatment of tumors of the external ear] Kotarba E. **Przegl Dermatol** 1990 Jan–Feb;77(1):61–7 (Eng. Abstr.) **(Pol)**

TRANSPLANTATION

Management of the paralyzed lower eyelid by implanting auricular cartilage. May M, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jul;116(7):786–8

The use of alcohol-stored cartilage in experimental laryngotracheal reconstruction. Albert DM, et al. **Int J Pediatr Otorhinolaryngol** 1989 Dec;18(2):147–55

A simple technique for reconstruction of the umbilicus, using a conchal cartilage composite graft. Matsuo K, et al. **Plast Reconstr Surg** 1990 Jul;86(1):149–51

[Plasticity of glutaraldehyde-treated heterogeneous cartilage (porcine ear) and its clinical application] Chen B. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):171–2 **(Chi)**

[The application of conchal cartilage graft in reconstruction of unilateral cleft lip nasal deformity] Li HL, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):136–7, 158 (Eng. Abstr.) **(Chi)**

[Experimental study of glutaraldehyde treated heterogeneous cartilage (porcine ear) and its antigenic property] Qiu JQ. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):216–9 **(Chi)**

[Allogeneic transplantation of ear-calvarium units in the rabbit animal experiment with immunosuppressive protection by cyclosporin A] Kniha H, et al. **Fortschr Kiefer Gesichtschir** 1990;35:28–30 **(Ger)**

EAR, INTERNAL see **LABYRINTH**

EAR, MIDDLE

see related

ACOUSTIC IMPEDANCE TESTS

Controversies in pediatric otology: point/counterpoint—perilymph fistula [editorial] Balkany T. **Am J Otol** 1989 Nov;10(6):493

Adenomatous tumors of the middle ear and mastoid. Benecke JE Jr, et al. **Am J Otol** 1990 Jan;11(1):20–6

Factors influencing the probability of residual cholesteatoma. Gristwood RE, et al. **Ann Otol Rhinol Laryngol** 1990 Feb; 99(2 Pt 1):120–3

Carcinoid tumors of the middle ear. Krouse JH, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):547–52 (13 ref.)

Middle ear as a gas pocket. Sadé J, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):529–34

Myospherulosis of the mastoid antrum: a case report. Gillespie CA, et al. **Auris Nasus Larynx** 1990;16(4):199–207

Treatment of tumours of the parotid gland and middle ear using obliquely reconstructed computed tomographic images. Sims C, et al. **Br J Radiol** 1989 Sep;62(741):785–9

Bilateral squamous cell carcinoma of the middle ear [letter] Carlsöö B, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug; 19(2):506–7

The results of radiotherapy of cancer of the middle ear. Korzeniowski S, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):631–3

Biocompatibility of a polyether urethane, polypropylene oxide, and a polyether polyester copolymer. A qualitative and quantitative study of three alloplastic tympanic membrane materials in the rat middle ear. Bakker D, et al. **J Biomed Mater Res** 1990 Apr;24(4):489–515

The biocompatibility of hydroxyapatite ceramic: a study of retrieved human middle ear implants. van Blitterswijk CA, et al. **J Biomed Mater Res** 1990 Apr;24(4):433–53

Malignant jugulotympanic paraganglioma in a dog. Cooley AJ, et al. **J Comp Pathol** 1990 May;102(4):375–83

Congenital cholesteatoma presenting as a post-auricular mass. Reilly PG. **J Laryngol Otol** 1989 Nov; 103(11):1069–70

Management of the inflammatory aural polyp. Williams SR, et al. **J Laryngol Otol** 1989 Nov;103(11):1040–2

Preservation of hearing in cholesteatomas with inner ear invasion. Canalis RF, et al. **J Otolaryngol** 1989 Dec; 18(7):374–9 (6 ref.)

Facial nerve paralysis caused by tumor-forming chronic lymphatic leukemia: a case report. Klausen OG, et al. **J Otolaryngol** 1990 Feb;19(1):76–8

Cholesteatoma. **Otolaryngol Clin North Am** 1989 Oct; 22(5):847–1053

Congenital cholesteatomas of the middle ear in children: origin and management. Levenson MJ, et al. **Otolaryngol Clin North Am** 1989 Oct;22(5):941–54 (21 ref.)

Vestibular effects of chronic perilymph fistula in the cat. Bhansali SA, et al. **Otolaryngol Head Neck Surg** 1990 Jun; 102(6):701–8

Summating potential/action potential ratio in perilymph fistula. Meyerhoff WL, et al. **Otolaryngol Head Neck Surg** 1990 Jun;102(6):678–82

Lipoma of the middle ear: an unusual presentation in a 4-year-old child. Selesnick SH, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):82–4

Immitance audiometry. Sutherland JE, et al. **Prim Care** 1990 Jun;17(2):233–47 (42 ref.)

Complications of otitis media in children. Farrior J. **South Med J** 1990 Jun;83(6):645–8

[Stapedectomy in tympanosclerosis] Fang YY. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1990;25(2):83–5, 126 (Eng. Abstr.) **(Chi)**

[Idiopathic perilymph fistula] Lu Y. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1989;24(1):15–6, 62 (Eng. Abstr.) **(Chi)**

[Audiological evaluation of the middle ear implant—speech discrimination under noise circumstances] Saiki T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Apr;93(4):566–71 (Eng. Abstr.) **(Jpn)**

[Audiological evaluation of the middle ear implant—temporal auditory acuity] Saiki T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Mar;93(3):413–9 (Eng. Abstr.) **(Jpn)**

[A case of cholesteatoma extending into the medial petrous bone] Maeda M, et al. **Rinsho Hoshasen** 1990 Jun; 35(6):737–9 (Eng. Abstr.) **(Jpn)**

[Clinical features and results in the treatment of malignant neoplasms of the external auditory canal and middle ear] Ogata H, et al. **Rinsho Hoshasen** 1989 Sep;34(9):973–6 (Eng. Abstr.) **(Jpn)**

[Cancer of the middle ear in our cases] Bartnik W. **Otolaryngol Pol** 1989;43(3):238–43 (Eng. Abstr.) **(Pol)**

[2 cases of glomangioma of rare location] Bętkowski A, et al. **Otolaryngol Pol** 1989;43(3):221–5 (Eng. Abstr.) **(Pol)**

[Embryonary rhabdomyosarcoma of the middle ear. Apropos of a case] Abdel-Hadi M, et al. **Acta Otorrinolaringol Esp** 1989 Jul–Aug;40(4):316–20 (48 ref.) (Eng. Abstr.) **(Spa)**

[The middle ear and inhalant anesthetics] Coromina J, et al. **Acta Otorrinolaringol Esp** 1988 Jul–Aug;39(4):241–2 (21 ref.) (Eng. Abstr.) **(Spa)**

[Labyrinth fistula and cholesteatoma] Crovetto de la Torre MA, et al. **Acta Otorrinolaringol Esp** 1988 Sep–Oct; 39(5):339–43 (Eng. Abstr.) **(Spa)**

[Tympanoplasty. Apropos of various clinical cases] García García B, et al. **Acta Otorrinolaringol Esp** 1990 Mar–Apr; 41(2):127–31 (Eng. Abstr.) **(Spa)**

[Tympanic homografts using formaldehyde-treated fascia (Perkin's foot)] Marco Algarra J, et al. **An Otorrinolaringol Ibero Am** 1990;17(2):145–57 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Comprehensive and interpretative radiology of middle ear malformations. Louryan SM, et al. **Acta Otorhinolaryngol Belg** 1989;43(6):569–77

Transplants and implants for major ear anomalies. Suzuki J, et al. **Acta Otorhinolaryngol Belg** 1988;42(6):784–8

Perilymphatic fistula in pediatric patients with a preexisting sensorineural loss. Pappas DG, et al. **Am J Otol** 1989 Nov; 10(6):499–501

Congenital perilymphatic fistula: an overlooked diagnosis? Reilly JS, et al. **Am J Otol** 1989 Nov;10(6):496–8

External and middle ear malformations: autosomal dominant genetic transmission. Oliveira CA, et al. **Ann Otol Rhinol Laryngol** 1989 Oct;98(10):772–6

Temporal bone histopathologic findings in Alagille's syndrome. Okuno T, et al. **Arch Otolaryngol Head Neck Surg** 1990 Feb;116(2):217–20

The relations of the mastoid segment of the facial canal to surrounding structures in congenital middle ear malformations. Savić D, et al. **Int J Pediatr Otorhinolaryngol** 1989 Sep;18(1):13–9

Congenital malformations of the external, middle, and inner ear produced by isotretinoin exposure in mouse embryos. Jarvis BL, et al. **Otolaryngol Head Neck Surg** 1990 Apr; 102(4):391–401

[Aberrant internal carotid artery in the middle ear] Figuerola E, et al. **Acta Otorrinolaringol Esp** 1989 Jan–Feb; 40(1):47–50 (17 ref.) (Eng. Abstr.) **(Spa)**

ANALYSIS

Human middle ear gas composition studied by mass spectrometry. Hergils L, et al. **Acta Otolaryngol (Stockh)** 1990 Jul–Aug;110(1–2):92–9

Gas chromatographic analysis and storage of gas samples from the middle ear. Jørgensen L, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun;109(5–6):416–20

Ultracytochemical localization of $Ca2(+)$-ATPase activity in the middle ear mucosa of the guinea pig. Karatay MC, et al. **Arch Otorhinolaryngol** 1989;246(6):423–7

ANATOMY & HISTOLOGY

Age-related morphologic differences in the components of the eustachian tube/middle ear system. Sadler-Kimes D, et al. **Ann Otol Rhinol Laryngol** 1989 Nov;98(11):854–8

Observations of the anterior epitympanic recess in the human temporal bone. Yamasoba T, et al. **Arch Otolaryngol Head Neck Surg** 1990 May;116(5):566–70

Surgical anatomy of the guinea pig middle ear. Sehitoğlu MA, et al. **Ear Nose Throat J** 1990 Feb;69(2):91–7

Are seismic communication signals transmitted by bone conduction in the blind mole rat? Rado R, et al. **Hear Res** 1989 Aug;41(1):23–9

Ear canal wall mobility and tympanometric shape in young infants. Holte L, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):77–80

Real-time B-scan ultrasound in middle ear assessment. A preliminary report. Alvord LS, et al. **J Ultrasound Med** 1990 Feb;9(2):91–4

Computer-aided 3-D temporal bone anatomy for cochlear implant surgery. Takahashi H, et al. **Laryngoscope** 1990 Apr;100(4):417–21

Discovery of the earliest-known tetrapod stapes [see comments] Clack JA. **Nature** 1989 Nov 23;342(6248):425–7 Comment in: Nature 1989 Nov 23;342(6248):342–3. Comment in: Nature 1990 Mar 8;344(6262):116.

A simplified anatomical approach to thin section, high resolution CT of the ear and facial nerve. Hughes K. **Radiogr Today** 1990 Mar;56(634):18–23

[The attic of the recessus epitympanicus. Its medicosurgical anatomy] Guerrier Y. **Acta Otorrinolaringol Esp** 1989 Dec; 40 Suppl 2:186–91 **(Fre)**

[Surgical anatomy of the retrotympanum: on 25 temporal bones] Espinoza J. **Rev Laryngol Otol Rhinol (Bord)** 1989; 110(5):507–15 (Eng. Abstr.) **(Fre)**

[Drainage of the middle ear] Kau RJ. **Laryngorhinootologie** 1990 Jan;69(1):35–40 (Eng. Abstr.) **(Ger)**

[Anatomical study of the superior jugular bulb by use of high-resolution computed tomography] Ichijo H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Nov;92(11):1934–8 (Eng. Abstr.) **(Jpn)**

[Structure of the middle ear in infants] Olszewski J. **Otolaryngol Pol** 1989;43(4):278–83 (Eng. Abstr.) **(Pol)**

BLOOD SUPPLY

Persistent stapedial artery supplying a glomus tympanicum tumor. Boscia R, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jul;116(7):852–4

CYTOLOGY

Pneumatization and mesenchyme in the human middle ear.

Rauchfuss A. **Acta Anat (Basel)** 1989;136(4):285–90

The effect of external stimuli on rat middle ear epithelium in culture. Extracellular carbon dioxide concentration. Lutgert HW, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun;109(5–6):431–7

Analysis of immunocompetent cells in the middle ear mucosa. Ichimiya I, et al. **Arch Otolaryngol Head Neck Surg** 1990 Mar;116(3):324–30

[Cell culture of middle-ear epithelium of the guinea pig—histochemical localization of mitochondrial enzymatic activities in cultured cells] Takeno S. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Jan;93(1):33–9 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

The effect of isotretinoin on propylene glycol-induced cholesteatoma in chinchilla middle ears. Jove MA, et al. **Am J Otolaryngol** 1990 Jan–Feb;11(1):5–9

EMBRYOLOGY

Ontogeny of relationship of middle ear and temporomandibular (squamomandibular) joint in mammals. III. Morphology and ontogeny in scandentia and primates. Smeele LE. **Acta Anat (Basel)** 1990;137(1):1–4

[The ontogenesis of the tympanic region of the Procaviidae (Mammalia: Hyracoidea)] Fischer MS. **Gegenbaurs Morphol Jahrb** 1989;135(6):795–840 (Eng. Abstr.) **(Ger)**

[Congenital epidermoid tumors of the temporal bone. 1: Pathogenesis] Otto HD, et al. **HNO** 1990 Feb;38(2):43–9 (47 ref.) (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Keratinization of middle ear cholesteatomas. I. A histochemical study of epidermal transglutaminase. Broekaert D, et al. **Eur Arch Otorhinolaryngol** 1990; 247(5):312–7

Keratinization of middle ear cholesteatomas. II. A histochemical study of epidermal transglutaminase substrates. Broekaert D, et al. **Eur Arch Otorhinolaryngol** 1990;247(5):318–22

IMMUNOLOGY

Lymphocyte circulation to the middle ear. Ryan AF, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):278–87

Immune response of the endolymphatic sac to horseradish peroxidase: immunologic route from the middle ear to the inner ear. Ikeda M, et al. **Ann Otol Rhinol Laryngol** 1989 Dec;98(12 Pt 1):975–9

Quantitative aspects of the mucosal immunity and bacteriology of the nasopharynx and middle ear cavity. Studies on children with clinically different forms of otitis media. Sørensen CH. **APMIS Suppl** 1990;16:1–41 (327 ref.)

Modulation of middle ear immune response by gut immunization. Bresnick SD, et al. **Laryngoscope** 1989 Dec; 99(12):1293–8

INJURIES

On the presence of reciprocal synapses in the paratympanic organ of the chicken. Giannessi F. **Anat Embryol (Berl)** 1989;180(2):175–8

Scanning electron microscopic study of the middle ear mucosa after transtympanic infusion of fluids with different osmotic pressure. Hara M, et al. **Auris Nasus Larynx** 1989; 16 Suppl 1:S33–40

The use of tympanometry in predicting otitic barotrauma. Ashton DH, et al. **Aviat Space Environ Med** 1990 Jan; 61(1):56–61

The use of tympanometry to detect aerotitis media in hypobaric chamber operations. Devine JA, et al. **Aviat Space Environ Med** 1990 Mar;61(3):251–5

Fitness of civil aviation passengers to fly after ear surgery. Moser M. **Aviat Space Environ Med** 1990 Aug;61(8):735–7

Inner ear decompression sickness following a shallow scuba dive. Reissman P, et al. **Aviat Space Environ Med** 1990 Jun;61(6):563–6

Labyrinthitis ossificans following post-traumatic hearing loss and vertigo: a case report with antemortem histopathology. Schwaber MK, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):89–91

[Catarrhal otitis media in children and air travel] Gaini RM, et al. **Pediatr Med Chir** 1989 Nov–Dec;11(6):699–701 (Eng. Abstr.) **(Ita)**

INNERVATION

Development and innervation of the paratympanic organ (Vitali organ) in chick embryos. von Bartheld CS. **Brain Behav Evol** 1990;35(1):1–15

The glomus tympanicum: a middle ear chemoreceptor? Rockley TJ, et al. **J Otolaryngol** 1989 Dec;18(7):370–3

The trigeminal sensory innervation to the middle ear, eustachian tube, and pharynx: a study by the horseradish peroxidase tracer method. Oyagi S, et al. **Laryngoscope** 1990 Aug;100(8):873–7

METABOLISM

Expression of involucrin in human middle ear cholesteatoma. Chao WY, et al. **Am J Otol** 1989 Sep;10(5):385–8

Morphologic and biochemical study of vascular permeability of the middle ear mucosa in experimental otitis media. Sakagami M, et al. **Ann Otol Rhinol Laryngol** 1990 Aug; 99(8):654–9

Cytokeratins in induced epidermoid formations and cholesteatoma lesions. Vennix PP, et al. **Arch Otolaryngol Head Neck Surg** 1990 May;116(5):560–5

Rapid induction of localized bone resorption in the auditory bulla of the Mongolian gerbil, Meriones unguiculatus, by increased air pressure. Chole RA, et al. **Calcif Tissue Int** 1989 Nov;45(5):318–23

Pharmacokinetics of flomoxef in mucosal tissue of the middle ear and mastoid following intravenous administration in humans. Saito H, et al. **Chemotherapy** 1990;36(3):193–9

Glycoconjugate histochemistry in the glycocalyx of guinea pig middle ear mucosa. Tanimura F, et al. **Eur Arch Otorhinolaryngol** 1990;247(5):291–5

MICROBIOLOGY

Isolation of Chlamydia pneumoniae from middle ear aspirates of otitis media with effusion: a case report [letter] Ogawa H, et al. **J Infect Dis** 1990 Oct;162(4):1000–1

PATHOLOGY

The effect of external stimuli on cultured rat middle ear epithelium. I. Extracellular calcium concentration. Van Blitterswijk CA, et al. **Acta Otolaryngol (Stockh)** 1990 Jan–Feb;109(1–2):101–10

Colony-stimulating factor in middle ear cholesteatoma. Huang T, et al. **Am J Otolaryngol** 1989 Nov–Dec; 10(6):393–8

Inhibition of osteoclast recruitment at a local site by 1-hydroxyethylidene-1,1-bisphosphonate (HEBP). Adachi K, et al. **Ann Otol Rhinol Laryngol** 1990 Sep;99(9 Pt 1):738–41

Middle ear mucosa in Ramsay Hunt syndrome. Fujiwara Y, et al. **Ann Otol Rhinol Laryngol** 1990 May;99(5 Pt 1):359–62

Pathologic quiz case 2. Congenital middle ear encephalocele (CMEE). Shupak A, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):744–7

Glomus tumours of the ear: an imaging regime. Phelps PD. **Clin Radiol** 1990 May;41(5):301–5

Comparison of immune-mediated models of acute and chronic otitis media. Keithley EM, et al. **Eur Arch Otorhinolaryngol** 1990;247(4):247–51

Amyloidosis of the middle ear in a chronically hemodialyzed patient. Korzets A, et al. **Isr J Med Sci** 1990 Apr; 26(4):209–11

Meconium contamination of the neonatal middle ear. Piza J, et al. **J Pediatr** 1989 Dec;115(6):910–4

Histopathology of sudden hearing loss. Yoon TH, et al. **Laryngoscope** 1990 Jul;100(7):707–15

Consequences of middle ear bone dust during neurotologic surgery. Feghali JG, et al. **Otolaryngol Head Neck Surg** 1990 Jun;102(6):698–700

Bilateral middle ear lobular capillary hemangiomas. Manning SC, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):85–8

Carcinoid tumour of the middle ear. A morphological and immunohistochemical study with comments on histogenesis and differential diagnosis. Ruck P, et al. **Pathol Res Pract** 1989 Oct;185(4):496–503; discussion 504–5

[Carcinoid tumor of the middle ear. Morphology, immunohistochemistry, clinical aspects and differential diagnosis] Ruck P, et al. **Laryngorhinootologie** 1990 Feb; 69(2):74–6 (Eng. Abstr.) **(Ger)**

[Primary adenocarcinoma of the middle ear] Schmoldt U, et al. **Laryngorhinootologie** 1990 Feb;69(2):77–9 (Eng. Abstr.) **(Ger)**

[Localization of inflammation of tympanic cavity in human temporal bone pathology] Suzuki C. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Jan;93(1):80–92 (Eng. Abstr.) **(Jpn)**

[Morphologic changes in the tympanic membrane and middle ear in chronic exudative otitis] Lučić M, et al. **Med Arh** 1984;38(3):109–11 (Eng. Abstr.) **(Scr)**

PHYSIOLOGY

Studies on gas tension in the normal middle ear. Gas chromatographic analysis and a new sampling technique. Grøntved A, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):271–7

Middle ear vibration and sound pressure measurements in the isolated cochlea preparation. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:131–7

Middle ear gas generation in myringoplasties. Buckingham RA. **Ann Otol Rhinol Laryngol** 1990 May;99(5 Pt 1):335–6

Cadaver middle ears as models for living ears: comparisons of middle ear input immittance. Rosowski JJ, et al. **Ann Otol Rhinol Laryngol** 1990 May;99(5 Pt 1):403–12

The function of the middle-ear air spaces as tuned resonators. Benítez-Díaz L. **Arch Invest Med (Mex)** 1989 Jul–Sep; 20(3):217–22

Medical studies in aviation: VI. Influence of altitude on hearing and the motion-sensing apparatus of the ear. 1918 [classical article] Lewis ER. **Aviat Space Environ Med** 1989 Nov;60(11):1123–4

Acoustic habituation in cats as a function of stimulus rate and the role of temporal conditioning of the middle ear muscles. Simons LA, et al. **Electroencephalogr Clin Neurophysiol** 1966 May; 20(5):485–93

The influence of sound stimulus parameters on the acoustic reflex waveform. Freeman S, et al. **Eur Arch Otorhinolaryngol** 1990;247(2):104–8

Comments on "Acoustic Transfer Characteristics in Human Middle Ears Studied by a SQUID Magnetometer Method" [J. Acoust. Soc. Am. 82, 1646–1654 (1987)] [comment] Goode RL, et al. **J Acoust Soc Am** 1989 Dec;86(6):2446–9 Comment on: J Acoust Soc Am 1987 Nov;82(5):1646–54.

Middle-ear response in the chinchilla and its relationship to mechanics at the base of the cochlea. Ruggero MA, et al. **J Acoust Soc Am** 1990 Apr;87(4):1612–29

Dynamical behavior of middle ear: theoretical study corresponding to measurement results obtained by a newly developed measuring apparatus. Wada H, et al. **J Acoust Soc Am** 1990 Jan;87(1):237–45

Mechanisms of middle ear aeration: anatomic and physiologic evidence in primates. Eden AR, et al. **Laryngoscope** 1990 Jan;100(1):67–75

Hearing through the lungs: lung-eardrum transmission of sound in the frog Eleutherodactylus coqui. Ehret G, et al. **Naturwissenschaften** 1990 Apr;77(4):192–4

[Experimental study of vibration analysis in middle ear models by holographic interferometry. Effects of the cross-sectioned area of aditus on the vibration of tympanic membrane] Ishihara M. **Nippon Jibiinkoka Gakkai Kaiho** 1989 May;92(5):726–35 (Eng. Abstr.) **(Jpn)**

[Effects of an increase or decrease in the middle ear pressure on tympanic membrane vibrations (experimental study by holographic interferometry)] Suehiro M. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Mar;93(3):398–406 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

A morphometric study of the effects of pressure on bone resorption in the middle ear of rats. Huang CC, et al. **Am J Otol** 1990 Jan;11(1):39–43

Daily fluctuations of middle ear pressure in atelectatic ears. Luntz M, et al. **Ann Otol Rhinol Laryngol** 1990 Mar;99(3 Pt 1):201–4

Middle ear function in patients with juvenile chronic arthritis. Siamopoulou-Mavridou A, et al. **Ann Rheum Dis** 1990 Aug; 49(8):620–3

Viscosity of effusion in the middle ear and eustachian tube in patients with otitis media with effusion. Takahashi H, et al. **Auris Nasus Larynx** 1990;17(1):11–6

Changes in tympanograms after middle ear inflation. Shinkawa H, et al. **Eur Arch Otorhinolaryngol** 1990; 247(2):125–8

The dynamic posturographic pressure test for the presumptive diagnosis of perilymph fistulas. Black FO, et al. **Neurol Clin** 1990 May;8(2):361–74

Macrophage (monocyte)-derived mucous secretagougue (MMS) is released into the fluid of the middle ear of patients with otitis media with effusion. Bernstein JM, et al. **Otolaryngol Head Neck Surg** 1990 Jul;103(1):1–9

ECoG and perilymphatic fistulae: an experimental study in the guinea pig. Gulya AJ, et al. **Otolaryngol Head Neck Surg** 1990 Feb;102(2):132–9

RADIATION EFFECTS

[The role of radiotherapy in the combined treatment of cancer of the middle ear] Pszon J. **Otolaryngol Pol** 1989; 43(3):189–94 (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

The relations of the mastoid segment of the facial canal to surrounding structures in congenital middle ear malformations. Savić D, et al. **Int J Pediatr Otorhinolaryngol** 1989 Sep;18(1):13–9

Heterotopic brain in the middle ear: CT findings. Klein MV, et al. **J Comput Assist Tomogr** 1989 Nov–Dec;13(6):1058–60

Contemporary radiologic imaging in the evaluation of middle ear–attic–antral complex cholesteatomas. Liu DP, et al. **Otolaryngol Clin North Am** 1989 Oct;22(5):897–909 (15 ref.)

[Radiologic diagnosis of the middle ear. Possibilities and perspectives] Grevers G, et al. **Laryngorhinootologie** 1989 Sep;68(9):481–5 (12 ref.) (Eng. Abstr.) **(Ger)**

[Computerized tomography in the diagnosis of pathologic processes in the middle ear] Jašović A, et al. **Srp Arh Celok Lek** 1987 Apr;115(4):485–96 **(Scr)**

SURGERY

Need for a noninvasive technique to measure cochlear responses. Khanna SM, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:19–26

Safety of labetalol-induced controlled hypotension during middle ear microsurgery. De Hert S, et al. **Acta Otorhinolaryngol Belg** 1989;43(2):157–62

The promontorial window. Plester D. **Acta Otorhinolaryngol Belg** 1989;43(2):105–8

Perilymph fistulas in children: experience of the Otologic Medical Group. House JW, et al. **Am J Otol** 1989 Nov; 10(6):493–5

Perilymph fistula: the Iowa experience to date. McCabe BF. **Am J Otol** 1989 Jul;10(4):262

Treacher Collins syndrome: an otologic challenge. Jahrsdoerfer RA, et al. **Ann Otol Rhinol Laryngol** 1989 Oct;98(10):807–12

Staging for cholesteatoma in the child, adolescent, and adult. Schuring AG, et al. **Ann Otol Rhinol Laryngol** 1990 Apr; 99(4 Pt 1):256–60

Controlled hypotension during anesthesia for otologic operations. An ultrastructural study of the brain in an experimental animal model. Manolidis LS, et al. **Arch Otorhinolaryngol** 1989;246(4):190–4

One-stage total reconstruction of the ear with simultaneous tympanoplasty. Song YG, et al. **Clin Plast Surg** 1990 Apr; 17(2):251–61 (12 ref.)

Tuberculous polyp in the middle ear of an infant. Mengiste F, et al. **Ethiop Med J** 1990 Jan;28(1):39–40

Total ear canal ablation combining bulla osteotomy and curettage in dogs with chronic otitis externa and media. Beckman SL, et al. **J Am Vet Med Assoc** 1990 Jan 1; 196(1):84–90

Advances in otologic microsurgery. Eby TL. **Microsurgery** 1989;10(4):333–7 (24 ref.)

Middle fossa arachnoid cyst eroding into the middle ear: case report. Haworth CS, et al. **Neurosurgery** 1990 Jan; 26(1):154–5

Surgical management of labyrinthine fistulae in chronic otitis media with cholesteatoma by a one-stage closed technique. Ostri B, et al. **ORL J Otorhinolaryngol Relat Spec** 1989; 51(5):295–9

Lasers in tympanomastoid surgery. Parkin JL. **Otolaryngol Clin North Am** 1990 Feb;23(1):1–5

[Microsurgery of the middle ear under controlled hypotension] Mařík E, et al. **Cesk Otolaryngol** 1990 Apr; 39(2):103–6 (Eng. Abstr.) **(Cze)**

[Anesthesia in ear surgery. A resource economical analysis and patient assessment of general anesthesia versus local anesthesia in ear surgery] Andreassen UK, et al. **Ugeskr Laeger** 1990 May 28;152(22):1595–7 (Eng. Abstr.) **(Dan)**

[Methods to reduce bleeding in anesthesia in microsurgery of the middle ear] Crinquette V, et al. **Cah Anesthesiol** 1989 Sep;37(5):349–55 (53 ref.) **(Fre)**

[The sympatho-adrenergic stress reaction in ear surgery using various anesthesia technics] Bachmann-M B, et al. **Laryngorhinootologie** 1989 Sep;68(9):493–8 (Eng. Abstr.) **(Ger)**

[Indications and performance of diagnostic tympanotomy in children] Knothe J, et al. **Laryngorhinootologie** 1989 Sep; 68(9):486–9 (Eng. Abstr.) **(Ger)**

[Complications after surgical procedures on the ear in conductive hearing loss] Serbedžija D, et al. **Med Arh** 1983; 37(2):85–8 (Eng. Abstr.) **(Scr)**

[Factors determining the choice of technic in surgical treatment of cholesteatoma] Antolí-Candela Cano F, et al. **Acta Otorrinolaringol Esp** 1989 Dec;40 Suppl 2:203–10 (Eng. Abstr.) **(Spa)**

[Rabbit's middle ear as a practical model for the initiation in otosurgery] Argudo F, et al. **An Otorrinolaringol Ibero Am** 1990;17(2):171–82 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Persistent structural changes in the middle ear mucosa of the rat, after an experimentally induced episode of pneumococcal otitis media. Hermansson A, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun;109(5–6):421–30

The ultrastructure of lymphatic vessels in the human middle ear with cholesteatoma. Nagai T, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;108(5–6):442–7

Ligneous conjunctivitis with ear involvement. Marcus DM, et al. **Arch Ophthalmol** 1990 Apr;108(4):514–9

Ultrastructural localization of Ca2(+)-binding sites in the middle ear mucosa of the rat. Karatay MC, et al. **Ear Arch Otorhinolaryngol** 1990;247(3):156–60

EAR MOLDS see HEARING AIDS

EAR NEOPLASMS

Adenomatous tumors of the middle ear and mastoid. Benecke JE Jr, et al. **Am J Otol** 1990 Jan;11(1):20–6

[Neurilemmoma of the external auditory canal. Apropos of a case] Cejas Méndez L, et al. **Acta Otorrinolaringol Esp** 1988 May–Jun;39(3):183–4 (20 ref.) (Eng. Abstr.) **(Spa)**

[Capillary hemangioma of the tympanum. Observations apropos of a case] Condado Hernández A, et al. **Acta Otorrinolaringol Esp** 1988 May–Jun;39(3):201–3 (Eng. Abstr.) **(Spa)**

[Tumors of the jugular and tympanic glomus. Unusual locations. Magnetic resonance imaging in the diagnosis. Comments on 3 cases] Romero Maura JM, et al. **An Otorrinolaringol Ibero Am** 1989;16(5):553–64 (10 ref.) (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

Persistent stapedial artery supplying a glomus tympanicum tumor. Boscia R, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jul;116(7):852–4

CHEMICALLY INDUCED

Lack of modifying effects of linolic acid hydroperoxides and their secondary oxidative products on combined 7,12-dimethylbenz[a]anthracene and 1,2-dimethylhydrazine-initiated mammary gland, ear duct and colon carcinogenesis in female Sprague-Dawley rats. Hirose M, et al. **Cancer Lett** 1989 Sep 15;47(1–2):141–7

COMPLICATIONS

Facial nerve paralysis caused by tumor-forming chronic lymphatic leukemia: a case report. Klausen OG, et al. **J Otolaryngol** 1990 Feb;19(1):76–8

[Obstructive jaundice caused by metastasis to the head of the pancreas by a malignant melanoma] Stauch S, et al. **Bildgebung** 1987–89;56(3):115–7 (Eng. Abstr.) **(Ger)**

[Facial paralysis caused by retroauricular basal cell carcinoma] Ramos Macías A, et al. **Acta Otorrinolaringol Esp** 1990 Jan–Feb;41(1):57–60 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Intracochlear neurilemmoma. Karlan MS, et al. **Arch Otolaryngol** 1972 Dec;96(6):573–5

Fibrous dysplasia of the temporal bone presenting as an osteoma of the external auditory canal. Kessler A, et al. **Ear Nose Throat J** 1990 Mar;69(3):197–9

Magnetic resonance imaging of the sella and temporal bone. Daniels DL, et al. **Magn Reson Annu** 1987;:1–47 (28 ref.)

Lipoma of the middle ear: an unusual presentation in a 4-year-old child. Selesnick SH, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):82–4

Carcinoid tumour of the middle ear. A morphological and immunohistochemical study with comments on histogenesis and differential diagnosis. Ruck P, et al. **Pathol Res Pract** 1989 Oct;185(4):496–503; discussion 504–5

CT and MR imaging of intralabyrinthine schwannoma: report of two cases and review of the literature. Mafee MF, et al. **Radiology** 1990 Feb;174(2):395–400 (26 ref.)

[Cancer of the middle ear in our cases] Bartnik W. **Otolaryngol Pol** 1989;43(3):238–43 (Eng. Abstr.) **(Pol)**

[2 cases of glomangioma of rare location] Bętkowski A, et al. **Otolaryngol Pol** 1989;43(3):221–5 (Eng. Abstr.) **(Pol)**

[The diagnosis, evolution and treatment of cavum conchae neoplasms based on cases from the Coltea Radiology and ENT Clinics] Pană I, et al. **Rev Chir [Otorinolaringol]** 1989 Apr–Jun;34(2):91–7 (Eng. Abstr.) **(Rum)**

[Embryonary rhabdomyosarcoma of the middle ear. Apropos of a case] Abdel-Hadi M, et al. **Acta Otorrinolaringol Esp** 1989 Jul–Aug;40(4):316–20 (48 ref.) (Eng. Abstr.) **(Spa)**

[Malignant tumor of the external auditory canal] Hernández Martín A, et al. **Acta Otorrinolaringol Esp** 1989 Sep–Oct; 40(5):369–72 (30 ref.) (Eng. Abstr.) **(Spa)**

[Jugular paraganglioma: presentation in the form of an aural polyp] Lahoz Zamarro MT. **An Otorrinolaringol Ibero Am** 1990;17(1):23–32 (24 ref.) (Eng. Abstr.) **(Spa)**

[Basal cell carcinoma of the external auditory canal] Nieto A, et al. **An Otorrinolaringol Ibero Am** 1989;16(6):641–8 (Eng. Abstr.) **(Spa)**

[Tumors of the jugular and tympanic glomus. Unusual locations. Magnetic resonance imaging in the diagnosis. Comments on 3 cases] Romero Maura JM, et al. **An Otorrinolaringol Ibero Am** 1989;16(5):553–64 (10 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

[Photodynamic laser tumor therapy with a hematoporphyrin derivative in spinocellular carcinoma of the external ear] Feyh J, et al. **Laryngorhinootologie** 1989 Oct;68(10):563–5 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

[Pathology of the external ear. A year's review] Dalmau Galofre J, et al. **Acta Otorrinolaringol Esp** 1990 Mar–Apr; 41(2):89–92 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Recurrent hemangioma of the external auditory canal. Jackson CG, et al. **Am J Otol** 1990 Mar;11(2):117–8

Meningioma of the internal auditory canal. Langman AW, et al. **Am J Otol** 1990 May;11(3):201–4

Aggressive middle ear tumor [letter; comment] Clark TD. **Am J Surg Pathol** 1989 Nov;13(11):985–7 Comment on: Am J Surg Pathol 1988 Oct;12(10):790–7.

Staging proposal for external auditory meatus carcinoma based on preoperative clinical examination and computed tomography findings. Arriaga M, et al. **Ann Otol Rhinol Laryngol** 1990 Sep;99(9 Pt 1):714–21

Carcinoid tumors of the middle ear. Krouse JH, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):547–52 (13 ref.)

Giant calcifying epithelioma. Sasaki CT, et al. **Arch Otolaryngol** 1976 Dec;102(12):753–5

Dermoid cyst of the auricle: report of two cases. Ikeda M, et al. **Auris Nasus Larynx** 1990;16(4):193–7

Temporal bone pathology in intracochlear schwannoma with profound hearing loss. Ohtani I, et al. **Auris Nasus Larynx** 1990;17(1):17–22

An earlobe lesion and a lung nodule [letter] Cregler LL. **Chest** 1990 Mar;97(3):764–5

Glomus tumours of the ear: an imaging regime. Phelps PD. **Clin Radiol** 1990 May;41(5):301–5

Hypothesis: symmetrical cutaneous lymphoma [see comments] Goudie RB, et al. **Lancet** 1990 Feb 10; 335(8685):316–8 Comment in: Lancet 1990 May 5;335(8697):1097.

Bilateral middle ear lobular capillary hemangiomas. Manning SC, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):85–8

[Late diagnosis of dysphonia] Baillot P, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(4):421–2 (Eng. Abstr.) **(Fre)**

[Lateral osteoma—auditory exostosis or hamartoma?] Bader W, et al. **HNO** 1989 Nov;37(11):477–8 (Eng. Abstr.) **(Ger)**

[Carcinoid tumor of the middle ear. Morphology, immunohistochemistry, clinical aspects and differential diagnosis] Ruck P, et al. **Laryngorhinootologie** 1990 Feb; 69(2):74–6 (Eng. Abstr.) **(Ger)**

[Primary adenocarcinoma of the middle ear] Schmoldt U, et al. **Laryngorhinootologie** 1990 Feb;69(2):77–9 (Eng. Abstr.) **(Ger)**

[Hidradenoma of the external acoustic meatus: ceruminoma] Gianotti R. G **Ital Dermatol Venereol** 1990 Feb; 125(1–2):25–6 (Eng. Abstr.) **(Ita)**

[A case of cholesteatoma extending into the medial petrous bone] Maeda M, et al. **Rinsho Hoshasen** 1990 Jun; 35(6):737–9 (Eng. Abstr.) **(Jpn)**

[von Recklinghausen's disease with a neurofibroma of the external ear] Gil-Carcedo LM, et al. **Acta Otorrinolaringol Esp** 1988 Jul–Aug;39(4):263–8 (54 ref.) (Eng. Abstr.) **(Spa)**

[Mixed tumor of the external auditory canal] Lahoz Zamarro MT, et al. **Acta Otorrinolaringol Esp** 1990 Jan–Feb; 41(1):53–6 (Eng. Abstr.) **(Spa)**

[Intracranial invasion of a tumor of the ear] Vicente González EA, et al. **Acta Otorrinolaringol Esp** 1989 Nov–Dec; 40(6):454–7 (19 ref.) (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Heterotopic brain in the middle ear: CT findings. Klein MV, et al. **J Comput Assist Tomogr** 1989 Nov–Dec;13(6):1058–60

RADIOTHERAPY

Treatment of tumours of the parotid gland and middle ear using obliquely reconstructed computed tomographic images. Sims C, et al. **Br J Radiol** 1989 Sep;62(741):785–9

Bilateral squamous cell carcinoma of the middle ear [letter] Carlsöö B, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug; 19(2):506–7

The results of radiotherapy of cancer of the middle ear. Korzeniowski S, et al. **Int J Radiat Oncol Biol Phys** 1990 Mar;18(3):631–3

[Curietherapy of epithelioma of the external ear. A series of 140 patients] Debois JM, et al. **Acta Otorhinolaryngol Belg** 1989;43(3):239–50 (Eng. Abstr.) **(Dut)**

[The role of radiotherapy in the combined treatment of cancer of the middle ear] Pazon J. **Otolaryngol Pol** 1989; 43(3):189–94 (Eng. Abstr.) **(Pol)**

SECONDARY

Metastasis from an unknown primary presenting as a tumor in the internal auditory meatus. Moloy PJ, et al. **Am J Otol** 1989 Jul;10(4):297–300

SURGERY

Neurofibroma of the ear. Stevenson TR, et al. **Ann Plast Surg** 1986 Aug;17(2):151–4

Bulky, benign tumor of the external auditory canal. Lloyd KM. **Arch Dermatol** 1990 May;126(5):589–90

Stereotactic radiosurgery for acoustic neuromas. Lunsford LD, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug; 116(8):907–9 (9 ref.)

Malignant melanoma of the external ear. Ward NO, et al. **Cancer** 1968 Feb;21(2):226–33 (45 ref.)

Reconstruction of the ear after tumor excision. Menick FJ. **Clin Plast Surg** 1990 Apr;17(2):405–15 (12 ref.)

Cancer of the periauricular region. Levine HL, et al. **Dermatol Clin** 1989 Oct;7(4):781–95 (14 ref.)

Clinical and surgical aspects of cholesteatomas in children. Cruz OL, et al. **Ear Nose Throat J** 1990 Aug;69(8):530, 535–6

Auricular wedge resection and reconstruction. Kitchens GG. **Ear Nose Throat J** 1989 Sep;68(9):673–4, 677–9, 683

Multiple trichoepithelioma occluding both external auditory canals. Bibi CO, et al. **Head Neck** 1990 May–Jun; 12(3):257–60

Ear preservation in the surgical treatment of auricular melanoma. Cohen BJ, et al. **Head Neck** 1990 Jul–Aug; 12(4):346–51

Delayed spontaneous return of hearing after acoustic tumor surgery: evidence for cochlear nerve conduction block. Kveton JF. **Laryngoscope** 1990 May;100(5):473–6

Squamous cell carcinoma of the external auditory meatus (canal). Arriaga M, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):330–7

[Surgical treatment of tumors of the external ear] Kotarba E. **Przegl Dermatol** 1990 Jan–Feb;77(1):61–7 (Eng. Abstr.) **(Pol)**

[Basal cell epithelioma of the external auditory canal] Viscasillas Seguí S, et al. **An Otorrinolaringol Ibero Am** 1990;17(2):165–70 **(Spa)**

THERAPY

Cancer of the auricle. Lin JC, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Apr;45(4):233–40

Rhabdomyosarcoma of the ear and temporal bone. Wiatrak

BJ, et al. **Laryngoscope** 1989 Nov;99(11):1188–92
[Clinical features and results in the treatment of malignant neoplasms of the external auditory canal and middle ear] Ogata H, et al. **Rinsho Hoshasen** 1989 Sep;34(9):973–6 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

[A case of ceruminous adenocarcinoma. Ultrastructural and immunohistochemical studies] Nádasdy T, et al. **Morphol Igazsagugyi Orv Sz** 1990 Apr;30(2):81–9 (Eng. Abstr.) **(Hun)**

VETERINARY

Carbon dioxide laser removal of a verrucous sarcoid from the ear of a horse. Palmer SE. **J Am Vet Med Assoc** 1989 Oct 15;195(8):1125–7
Malignant jugulotympanic paraganglioma in a dog. Cooley AJ, et al. **J Comp Pathol** 1990 May;102(4):375–83
Pinnal oncocytoma in a rat. Kanjo M, et al. **Vet Pathol** 1990 Jul;27(4):292–4

EAR OSSICLES

see related
STAPES SURGERY

[Isolated ankylosis of the malleus] Desaulty A, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(1):7–14 (Eng. Abstr.) **(Fre)**
[Comment on the contribution: The correlation of external magnetic fields and metallic middle ear implants by A. Schadel and R. Krämer in HNO (1989) 37:315–319] Hüttenbrink KB. **HNO** 1989 Dec;37(12):522 **(Ger)**

ABNORMALITIES

The facial nerve coursing inferior to the oval window. Mayer TG, et al. **Arch Otolaryngol** 1976 Dec;102(12):744–6
Use of the argon laser in the treatment of malleus fixation. Sands CJ, et al. **Arch Otolaryngol Head Neck Surg** 1990 Aug;116(8):975–6
Unusual case of bilateral conductive deafness. Hoare TJ, et al. **J Laryngol Otol** 1990 Jul;104(7):560–1
An autosomal dominant inherited syndrome with congenital stapes ankylosis. Teunissen B, et al. **Laryngoscope** 1990 Apr; 100(4):380–4
[Congenital malformations of the stapes area] Debruyne F. **Acta Otorhinolaryngol Belg** 1988;42(6):716–9 **(Dut)**
[Recurrent meningitis, hydrocephalus and tegmen tympani dehiscence] Muller JP, et al. **Rev Neurol (Paris)** 1989; 145(12):855–6 (11 ref.) (Eng. Abstr.) **(Fre)**

ANATOMY & HISTOLOGY

Discovery of the earliest-known tetrapod stapes [see comments] Clack JA. **Nature** 1989 Nov 23;342(6248):425–7 Comment in: Nature 1989 Nov 23;342(6248):342–3. Comment in: Nature 1990 Mar 8;344(6262):116.
[Evolution of the functional axes of the middle ear in mammals] Fenart R, et al. **Bull Assoc Anat (Nancy)** 1989 Jun;73(221):13–20 (Eng. Abstr.) **(Fre)**
[Morphometry of the stapes] Vallés Varela H, et al. **Acta Otorrinolaringol Esp** 1988 Nov–Dec;39(6):403–6 **(Spa)**

EMBRYOLOGY

Early ossification within the human fetal otic capsule: morphological and microanalytical findings. Declau F, et al. **J Laryngol Otol** 1989 Dec;103(12):1113–21

GROWTH & DEVELOPMENT

[Morphological studies of postnatal changes of the sound transport apparatus in the middle ear of humans and rabbits] Schönfelder J, et al. **Anat Anz** 1990;170(3–4):213–9 (Eng. Abstr.) **(Ger)**

INJURIES

Traumatic middle ear lesions. Fracture of the malleus handle, aetiology, diagnosis and treatment. Pedersen CB. **J Laryngol Otol** 1989 Oct;103(10):901–3
[Traumatic lesions of the ossicles] Desaulty A, et al. **Acta Otorhinolaryngol Belg** 1989;43(2):109–18 (Eng. Abstr.) **(Fre)**

PATHOLOGY

The N.I.F. classification of ossicular disorders. Lupin AJ, et al. **Am J Otol** 1989 Nov;10(6):481–4
Temporal bone histopathology: residents' quiz. Tympanosclerosis. Marion MS, et al. **Am J Otolaryngol** 1989 Sep–Oct;10(5):362–4
Temporal bone histopathology: fixed malleus. Marion MS, et al. **Am J Otolaryngol** 1990 May–Jun;11(3):205–6
[A hearing disorder caused by a defect of the incus in children] Egorov LV, et al. **Vestn Otorinolaringol** 1990 Mar–Apr;(2):61–2 **(Rus)**

PHYSIOLOGY

Implantable hearing aids: changes in the auditory-evoked potential of the monkey in response to increased loading of the stapes. Wilson EP, et al. **Am J Otolaryngol** 1990 May–Jun;11(3):149–52
Brainstem auditory-evoked response in the rat. Normative studies, with observations concerning the effects of ossicular disruption. Burkard R, et al. **Audiology** 1990; 29(3):146–62
Comments on "Acoustic Transfer Characteristics in Human Middle Ears Studied by a SQUID Magnetometer Method" [J. Acoust. Soc. Am. 82, 1646–1654 (1987)] [comment] Goode RL, et al. **J Acoust Soc Am** 1989 Dec;86(6):2446–9 Comment on: J Acoust Soc Am 1987 Nov;82(5):1646–54.
Middle-ear response in the chinchilla and its relationship to mechanics at the base of the cochlea. Ruggero MA, et al. **J Acoust Soc Am** 1990 Apr;87(4):1612–29
Balancing background noise [letter] Kermack KA. **Nature** 1990 Feb 22;343(6260):701
[Movement of the ear ossicles by middle ear muscle contraction] Hüttenbrink KB. **Laryngorhinootologie** 1989 Nov;68(11):614–21 (Eng. Abstr.) **(Ger)**
[Ossicular vibration in human temporal bones] Aritomo H. **Nippon Jibiinkoka Gakkai Kaiho** 1989 Sep;92(9):1359–70 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Stapedius reflex growth function in cochlear implant patients. Stephan K, et al. **Audiology** 1990;29(1):46–54

RADIOGRAPHY

High resolution computed tomography of auditory ossicles. Isono M, et al. **Acta Radiol** 1990 Jan;31(1):27–31

SURGERY

Reconstruction of the middle ear with hydroxylapatite implants: long-term results. Grote JJ. **Ann Otol Rhinol Laryngol Suppl** 1990 Feb;144:12–6
Biocompatibility of clinically applied hydroxylapatite ceramic. van Blitterswijk CA, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Feb;144:3–11
New perspectives on lyophilized bone allografts. Maisin JP, et al. **Arch Otorhinolaryngol** 1989;246(5):283–5
Hydroxylapatite ossicular replacement prostheses: preliminary results. Goldenberg RA. **Laryngoscope** 1990 Jul;100(7):693–700
Laser applications in ossicular surgery. McGee TM. **Otolaryngol Clin North Am** 1990 Feb;23(1):7–18
Ossicular reconstruction in ears with cholesteatoma. Wehrs RE. **Otolaryngol Clin North Am** 1989 Oct;22(5):1003–13
A silastic prosthesis for total replacement of the middle-ear ossicular chain, its acoustic properties and clinical application. Voldřich Z, et al. **Polim Med** 1989; 19(3–4):127–36

TRANSPLANTATION

Densitometry of implanted allograft ear ossicles. Chiossone E, et al. **Rev Laryngol Otol Rhinol (Bord)** 1989; 110(5):457–60
Reconstruction of the severely damaged middle ear with homograft tympanic membrane and ossicles: a clinical study. Lesinski SG. **Surg Forum** 1978;29:568–70
[Ossification of allogeneic solvent preserved ossicle transplants. Comparative histomorphologic studies in an animal experiment and human explants] Pesch HJ, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:175–6 **(Ger)**
[Are cialit-preserved ossicles as middle ear implants still bacteriologically defensible? Their replacement by pre-formed implants fashioned from teeth] Hüttenbrink KB, et al. **Laryngorhinootologie** 1990 Jun;69(6):327–32 (Eng. Abstr.) **(Ger)**
[Allogeneic transplants for otosurgery obtained from the Preserved Tissue Bank of the District Blood Transfusion Center in Katowice] Namysłowski G, et al. **Otolaryngol Pol** 1989;42(6):424–7 (Eng. Abstr.) **(Pol)**

EAR PROTECTIVE DEVICES see under **PROTECTIVE DEVICES**

EARACHE

Referred otalgia. Wazen JJ. **Otolaryngol Clin North Am** 1989 Dec;22(6):1205–15 (17 ref.)

DRUG THERAPY

Childhood otalgia: acute otitis media. 2. Justification for antibiotic use in general practice. Bain J. **BMJ** 1990 Apr 14;300(6730):1006–7
Childhood otalgia: acute otitis media. 1. Antibiotics not necessary in most cases. Browning GG. **BMJ** 1990 Apr 14;300(6730):1005–6

ETIOLOGY

Ear pain referred by the vagus. Blau JN. **BMJ** 1989 Dec 23–30;299(6715):1569–70
Referred otalgia. Rareshide EH, et al. **J La State Med Soc** 1990 Jun;142(6):7–10
[Earache: a symptom of the incorrect placement of a central venous catheter (letter)] Villalonga A, et al. **Rev Esp Anestesiol Reanim** 1989 Jul–Aug;36(4):241 **(Spa)**

SURGERY

Role of tympanic neurectomy in otalgia. Cook JA, et al. **J Laryngol Otol** 1990 Feb;104(2):114–7

THERAPY

Treatment of earache among the Lappish people. Stenfors LE, et al. **J Laryngol Otol** 1990 Feb;104(2):109–11

EARLY AMBULATION

Early mobilization in septic arthritis. 14 children followed for 2 years. Katz K, et al. **Acta Orthop Scand** 1990 Apr; 61(2):161–2
Early knee mobilization after osteotomy for gonarthrosis. Odenbring S, et al. **Acta Orthop Scand** 1989 Dec; 60(6):699–702
Outpatient or short-stay skin grafting with early ambulation for lower-extremity burns. Dean S, et al. **Ann Plast Surg** 1990 Aug;25(2):150–1
Axillary lymphadenectomy. A prospective, randomized trial of 13 factors influencing drainage, including early or delayed arm mobilization. Petrek JA, et al. **Arch Surg** 1990 Mar;125(3):378–82
Early mobilisation and outcome in acute sprains of the neck. McKinney LA. **BMJ** 1989 Oct 21;299(6706):1006–8
Early mobilisation after primary flexor tendon repair in 152 fingers (excluding zone II) and in 60 thumbs. "France Ouest Main Service". Langlais F. **Int Orthop** 1989;13(4):269–74
Early ambulation after 5 French diagnostic cardiac catheterization: results of a multicenter trial [see comments] Kern MJ, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1475–83 Comment in: J Am Coll Cardiol 1990 Jun;15(7):1484–5.
Early mobilisation after flexor tendon repair. Matthews JP. **J Hand Surg [Br]** 1989 Nov;14(4):363–7 (24 ref.)
Flexor tendon repair using a "six strand" method of repair and early active mobilisation. Savage R, et al. **J Hand Surg [Br]** 1989 Nov;14(4):396–9
Early active mobilisation following flexor tendon repair in zone 2 [see comments] Small JO, et al. **J Hand Surg [Br]** 1989 Nov;14(4):383–91 Comment in: J Hand Surg [Br] 1990 May;15(2):274.
The effect of ambulation on post-myelography headache in patients injected with metrizamide. Smith CA, et al. **J Neurosci Nurs** 1990 Feb;22(1):32–5
Time of mobilization of repaired tendons. Wray RC Jr, et al. **Surg Forum** 1978;29:616–8
[Socioeconomic value of early weight-bearing after fracture of the greater trochanter:—the role of osteosynthesis using an angled support plate] Vichard P, et al. **Bull Acad Natl Med** 1989 Apr;173(4):397–406 (Eng. Abstr.) **(Fre)**
[Early mobilization—a general healing measure in rehabilitation? Special presentation by Prof. Robert Leach, 1989 Congress of the Society of Orthopedic-Traumatologic Sports Medicine] Leach R. **Sportverletz Sportschaden** 1990 Mar;4(1):53–6 **(Ger)**
[Healing phases in autogenous posterior cruciate ligament replacement. A decision aid for after-care. A biomechanical and histologic study] Bosch U, et al. **Unfallchirurg** 1990 May;93(5):187–96 (Eng. Abstr.) **(Ger)**
[The significance of the performance-lactate quotient in patients following acute myocardial infarct in a preliminary stress test] Dahn G, et al. **Z Gesamte Inn Med** 1989 Nov 1;44(21):654–6 (Eng. Abstr.) **(Ger)**
[Early functional treatment of rupture of the fibular ligament with a personally developed ankle splint] Reith HB, et al. **Zentralbl Chir** 1989;114(21):1396–400 (Eng. Abstr.) **(Ger)**
[Prognostic indices and advanced age in acute myocardial infarct] Fiegler VH, et al. **ZFA** 1989 Sep–Oct;44(5):281–5 (Eng. Abstr.) **(Ger)**
[Early stabilization in severe cervical vertebral and spinal cord injuries] Gambardella G, et al. **Minerva Anestesiol** 1989 Mar;55(3):95–7 (Eng. Abstr.) **(Ita)**

METHODS

Non-operative management of acute grade III medial collateral ligament injury of the knee: a prospective study. Mok DW, et al. **Injury** 1989 Sep;20(5):277–80
Low dose Dextran 40 in reconstructive hip surgery patients [letter; comment] Aptekar RG. **Orthopedics** 1990 May; 13(5):508 Comment on: Orthopedics 1989 Jun;12(6):797–801.

PSYCHOLOGY

Self-efficacy and in-patient cardiac rehabilitation. Oldridge NB, et al. **Am J Cardiol** 1990 Aug 1;66(3):362–5

EARLY GENE TRANSCRIPTION see **TRANSCRIPTION, GENETIC**

EARLY MOBILIZATION see **EARLY AMBULATION**

EARLY PLACENTAL PHASE see **PREGNANCY TRIMESTER, FIRST**

EARLY PROMOTERS see **PROMOTER REGIONS (GENETICS)**

EARTHWORMS see **OLIGOCHAETA**

EAST COAST FEVER see **THEILERIASIS**

EATING

Estimating children's eating habits. Validity of a questionnaire measuring food frequency compared to a 7-day record. Blom L, et al. **Acta Paediatr Scand** 1989 Nov;78(6):858–64

Ileorectal anastomosis as a viable model for protein digestion studies in sheep: effect on feed intake, water and acid/base balance and digestive tract anatomy. van der Walt JG, et al. **Acta Vet Scand Suppl** 1989;86:232–4

Prandial effects on cardiac function and responses. Rokowski RJ, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1078–82

Hypnotizability, attitudes toward eating, and concern with body size in a female college population. Groth-Marnat G, et al. **Am J Clin Hypn** 1990 Jan;32(3):194–200

Moderate alcohol intake and spontaneous eating patterns of humans: evidence of unregulated supplementation. de Castro JM, et al. **Am J Clin Nutr** 1990 Aug;52(2):246–53

Adaptive changes in energy expenditure during refeeding following low-calorie intake: evidence for a specific metabolic component favoring fat storage. Dulloo AG, et al. **Am J Clin Nutr** 1990 Sep;52(3):415–20

NHANES III for older persons: nutrition content and methodological considerations. Harris T, et al. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1145–9; discussion 1231–5

Recommended dietary intakes of elderly subjects. Hegsted DM. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1190–4; discussion 1231–5 (17 ref.)

Acute effects of exercise on food intake in obese and nonobese women. Kissileff HR, et al. **Am J Clin Nutr** 1990 Aug;52(2):240–5

Effect of breakfast cereals on short-term food intake. Levine AS, et al. **Am J Clin Nutr** 1989 Dec;50(6):1303–7

Dietary evaluation of patients with smell and/or taste disorders. Mattes RD, et al. **Am J Clin Nutr** 1990 Feb; 51(2):233–40

Maternal and fetal responses to the stresses of lactation concurrent with pregnancy and of short recuperative intervals. Merchant K, et al. **Am J Clin Nutr** 1990 Aug; 52(2):280–8

Surrogate measures of dietary intake. Samet JM. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1139–44; discussion 1231–5 (15 ref.)

Assessment of physical activity and energy needs. Shephard RJ. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1195–200; discussion 1231–5 (38 ref.)

Gastrointestinal and cardiac response to refeeding after low-calorie semistarvation. Young EA, et al. **Am J Clin Nutr** 1989 Nov;50(5):922–9

Thromboxane plays a role in postprandial jejunal oxygen uptake and capillary exchange. Alemayehu A, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G430–5

Regional circulatory responses to intestinal work in developing swine. Buckley NM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1119–25

Control of interdigestive and intraduodenal meal-stimulated pancreatic secretion in rats. Chariot J, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G198–204

Effects of ileal transposition on food intake, dietary preference, and weight gain in Zucker obese rats. Chen DC, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R269–73

Prostanoids in regulation of postprandial jejunal hyperemia and oxygen uptake. Chou CC, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G798–808

Role of cholecystokinin in intestinal phase and meal-induced pancreatic secretion. Dale WE, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G782–90

Rapid frequency rhythmic postprandial motility in the canine ileum. Fich A, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G766–72

Colonic motor response to eating [letter] Fioramonti J, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G155–6

Impaired renal response to a meat meal in insulin-dependent diabetes: role of glucagon and prostaglandins. Fioretto P, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):F675–83

Energy expenditure during normo- and overfeeding in peripubertal children of lean and obese Pima Indians. Freymond D, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):E647–53

Fuel partitioning and food intake: role for mitochondrial fatty acid transport. Friedman MI, et al. **Am J Physiol** 1990 Jan; 258(1 Pt 2):R216–21

Cholecystokinin receptors and vagal nerves in control of food intake in rats. Garlicki J, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E40–5

An important role of endogenous insulin on exocrine pancreatic secretion in rats. Lee KY, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G268–74

Influence of preweaning food intake on body composition of young adult baboons. Lewis DS, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1128–35

Physiological correlates of schedule-induced activities in rats. Mittleman G, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R485–91

Effect of CCK antagonist L 364718 on meal-induced pancreatic secretion in rats. O'Rourke MF, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):G179–84

Energy expenditure and subsequent nutrient intakes in overfed young men. Roberts SB, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R461–9

Colonic motor response to a meal in dogs. Sarna SK, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G830–5

Jejunal adenosine increases during food-induced jejunal hyperemia. Sawmiller DR, et al. **Am J Physiol** 1990 Mar; 258(3 Pt 1):G370–6

Quantitative comparison of pathways of hepatic glycogen repletion in fed and fasted humans. Shulman GI, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E335–41

Effects of ileal infusions of nutrients on motor patterns of canine small intestine. Siegle ML, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G78–85

Effects of various agents on ileal postprandial motor patterns and transit of chyme in dogs. Siegle ML, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G698–703

Endogenous cholecystokinin does not decrease food intake or gastric emptying in fasted rats. Smith GP, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1462–6

ANF and postprandial control of sodium excretion in dogs with compensated heart failure. Villarreal D, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R232–9

Regional changes in adipose tissue blood flow and metabolism in rats after a meal. West DB, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R711–6

Meal-stimulated absorption of water and electrolytes in canine jejunum. Yeo CJ, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G402–9

Fiber digestion and voluntary intake in horses after adaptation to extensive large-colon resection. Bertone AL, et al. **Am J Vet Res** 1989 Sep;50(9):1628–32

Effect of meal feeding on plasma volume and urinary electrolyte clearance in ponies. Clarke LL, et al. **Am J Vet Res** 1990 Apr;51(4):571–6

Food effects on the nighttime pharmacokinetics of Theo-Dur tablets. Kann J, et al. **Ann Allergy** 1989 Oct;63(4):282–6

How long to abstain from eating red meat before fecal occult blood tests. Feinberg EJ, et al. **Ann Intern Med** 1990 Sep 1;113(5):403–4

What do we mean when we say "palatable food"? [see comments] Ramirez I. **Appetite** 1990 Jun;14(3):159–61 Comment in: Appetite 1990 Jun;14(3):162–6; discussion 180. Comment in: Appetite 1990 Jun:14(3):167–70. Comment in: Appetite 1990 Jun:14(3):171–9.

Quantitative estimates of soil ingestion in normal children between the ages of 2 and 7 years: population-based estimates using aluminum, silicon, and titanium as soil tracer elements. Davis S, et al. **Arch Environ Health** 1990 Mar-Apr;45(2):112–22

Effects of meals and time of day on postural blood pressure responses in young and elderly subjects. Mader SL. **Arch Intern Med** 1989 Dec;149(12):2757–60

Intrinsic heart function and food intake. Kelbaek H. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:45–8

Tongue movement in the cat during the intake of solid food. Thexton AJ, et al. **Arch Oral Biol** 1989;34(4):239–48

Postprandial lipemia and lipoprotein lipase in the rabbit are modified by olive and coconut oil. Van Heek M, et al. **Arterioscler Thromb** 1990 May-Jun;10(3):421–9

Hungarian meal patterns. Biró G. **Bibl Nutr Dieta** 1990; (45):72–9

European trends in conviviality and eating out. Glew G. **Bibl Nutr Dieta** 1990;(45):92–103 (12 ref.)

Oral feeding containers and their influence on intake and ventilation in preterm infants. Duara S. **Biol Neonate** 1989; 56(5):270–6

Feeding aids. Connolly MJ, et al. **BMJ** 1990 Aug 18–25; 301(6748):378–9

Collection of food intake data: a reappraisal of criteria for judging the methods. Borrelli R. **Br J Nutr** 1990 May; 63(3):411–7

Nutrient intakes of urban dwellers in Lagos, Nigeria. McFie J. **Br J Nutr** 1967;21(2):257–68

Nitrogen balance studies with the milk-fed lamb. 5. Effect of frequency of feeding. Walker DM, et al. **Br J Nutr** 1967; 21(2):275–87

Sham feeding for testing gastric secretory capacities before and after parietal cell vagotomy. Gilly F, et al. **Br J Surg** 1989 Sep;76(9):946–8

Modified sham-feeding and pentagastrin stimulated secretion [letter] Johnson CD. **Br J Surg** 1990 Jan;77(1):117

Quantification of reproductive changes and nutrient requirements of broiler breeder pullets at sexual maturity. Bowmaker JE, et al. **Br Poult Sci** 1989 Sep;30(3):663–76

Response of laying hens to asymmetrical interrupted lighting regimens: physiological aspects. Lewis PD, et al. **Br Poult Sci** 1990 Mar;31(1):45–52

Responses of body composition, growth and food efficiency to dietary protein in genetically lean and fat broilers up to seven weeks of age. Whitehead CC. **Br Poult Sci** 1990 Mar;31(1):163–72

The role of the ileum in the control of food intake and intestinal adaptation. Koopmans HS. **Can J Physiol Pharmacol** 1990 May;68(5):650–5

Studies on methylmalonic acid in humans. I. Concentrations in serum and urinary excretion in normal subjects after feeding and during fasting, and after loading with protein, fat, sugar, isoleucine, and valine. Rasmussen K. **Clin Chem** 1989 Dec;35(12):2271–6

Effects of meal ingestion on plasma amylin concentration in NIDDM and nondiabetic humans. Butler PC, et al. **Diabetes** 1990 Jun;39(6):752–6

Effect of temporal distribution of calories on diurnal patterns of glucose levels and insulin secretion in NIDDM. Beebe CA, et al. **Diabetes Care** 1990 Jul;13(7):748–55

Postprandial oscillatory patterns of blood glucose and insulin in NIDDM. Abnormal diurnal insulin secretion patterns and glucose homeostasis independent of obesity. Calles-Escandon J, et al. **Diabetes Care** 1989 Nov-Dec; 12(10):709–14

A supplementary infusion of glucose-dependent insulinotropic polypeptide (GIP) with a meal does not significantly improve the beta cell response or glucose tolerance in type 2 diabetes mellitus. Jones IR, et al. **Diabetes Res Clin Pract** 1989 Nov 6;7(4):263–9

Postprandial hyperglycaemia following a morning hypoglycaemia in type 1 diabetes mellitus. Fowelin J, et al. **Diabetic Med** 1990 Feb;7(2):156–61

The plasma C-peptide and insulin responses to stimulation with intravenous glucagon and a mixed meal in well-controlled type 2 (non-insulin-dependent) diabetes mellitus: dependency on acutely established hyperglycaemia. Gjessing HJ, et al. **Diabetologia** 1989 Dec; 32(12):858–63

The glucose dependent insulinotropic polypeptide response to oral glucose and mixed meals is increased in patients with type 2 (non-insulin-dependent) diabetes mellitus. Jones IR, et al. **Diabetologia** 1989 Sep;32(9):668–77

Unexplained variability of glycated haemoglobin in non-diabetic subjects not related to glycaemia. Yudkin JS, et al. **Diabetologia** 1990 Apr;33(4):208–15

Reducing meal-stimulated acid secretion versus reducing nocturnal acid secretion for healing of duodenal ulcer. Lam SK, et al. **Dig Dis Sci** 1989 Oct;34(10):1494–500

Effect of positions, eating, and bronchodilators on gastroesophageal reflux in asthmatics. Sontag SJ, et al. **Dig Dis Sci** 1990 Jul;35(7):849–56

Posttraumatic gustatory rhinorrhea. Elidan J, et al. **Ear Nose Throat J** 1990 Aug;69(8):553–5, 558

Fed, but not fasted, adrenalectomized rats survive the stress of hemorrhage and hypovolemia. Darlington DN, et al. **Endocrinology** 1990 Aug;127(2):759–65

'Eating epilepsy'—a reappraisal. Senanayake N. **Epilepsy Res** 1990 Jan-Feb;5(1):74–9

Longitudinal growth analysis of horses following limited and ad libitum feeding. Cymbaluk NF, et al. **Equine Vet J** 1990 May;22(3):198–204

Biology of adaptation to seasonal cycling of energy intake. **Eur J Clin Nutr** 1990;44 Suppl 1:1–121

Effect of diarrhoea on dietary intake by infants and young children in rural villages of Kwara State, Nigeria. Dickin KL, et al. **Eur J Clin Nutr** 1990 Apr;44(4):307–17

Enthalpy changes and heat production induced by a meal. Garby L. **Eur J Clin Nutr** 1989 Sep;43(9):637–9

The constancy of basal metabolic rate in free-living male subjects. Henry CJ, et al. **Eur J Clin Nutr** 1989 Oct; 43(10):727–31

Survey of iodine deficiency in a rural area near Tehran: association of food intake and endemic goitre. Kimiagar M, et al. **Eur J Clin Nutr** 1990 Jan;44(1):17–22

Effect of food on the absorption and pharmacokinetics of prednisolone from enteric-coated tablets. Al-Habet SM, et al. **Eur J Clin Pharmacol** 1989;37(4):423–6

Intra and inter-person sources of variability in fat intake in a feeding trial of 14 men. Hebert JR, et al. **Eur J Epidemiol** 1990 Mar;6(1):55–60

Effects of patch size on feeding associations in muriquis (Brachyteles arachnoides). Strier KB. **Folia Primatol (Basel)** 1989;52(1–2):70–7

Fish: a new addition to the diet of Japanese macaques on Koshima Island. Watanabe K. **Folia Primatol (Basel)** 1989; 52(3–4):124–31

Influence of food intake and sexual segregation on longevity, organ weights and the incidence of non-neoplastic and neoplastic diseases in rats. Salmon GK, et al. **Food Chem Toxicol** 1990 Jan;28(1):39–48

Functional morphology of the jaw muscles of two species of imperial pigeons, Ducula aenea nicobarica and Ducula badia insignis. Bhattacharyya BN. **Gegenbaurs Morphol Jahrb** 1989;135(4):573–618

Oesophageal manometry during eating in the investigation of patients with chest pain or dysphagia. Howard PJ, et al. **Gut** 1989 Sep;30(9):1179–86

Effect of prefeeding lipid on food intake and satiety in man. Sepple CP, et al. **Gut** 1990 Feb;31(2):158–61

Daily U intake in Utah residents from food and drinking water. Singh NP, et al. **Health Phys** 1990 Sep;59(3):333–7

Changes in skeletal muscle 3,5,3'-triiodothyronine nuclear receptors with thyroid status are dependent on energy balance. Morovat A, et al. **Horm Metab Res** 1990 Feb; 22(2):128

REM sleep deprivation and food intake. Bhanot JL, et al. **Indian J Physiol Pharmacol** 1989 Jul-Sep;33(3):139–45

Effect of immobilization stress on food intake, body weight and weights of various organs in rat. Monteiro F, et al. **Indian J Physiol Pharmacol** 1989 Jul-Sep;33(3):186–90

Body composition and in vitro lipid metabolism of overfed hypophysectomized rats. Harris RB. **Int J Obes** 1989; 13(5):647–60

You are what you eat—what you eat is what you are. Dietz WH. **J Adolesc Health Care** 1990 Jan;11(1):76–81

Weight and eating concerns among pre- and young adolescent boys and girls. Richards MH, et al. **J Adolesc Health Care** 1990 May;11(3):203–9

Serum cholesterol, fat intake, and breakfast consumption in the United States adult population. Stanton JL Jr, et al. **J Am Coll Nutr** 1989 Dec;8(6):567–72

Postoperative instructions [letter] Davidson MJ. **J Am Dent Assoc** 1990 Aug;121(2):216

Dietary intakes of police department employees in a wellness program. Briley ME, et al. **J Am Diet Assoc** 1990 Jan; 90(1):65–8

Accuracy of visual estimates of plate waste in the determination of food consumption. Dubois S. **J Am Diet Assoc** 1990 Mar;90(3):382–7

Acceptance and consumption of crystalline fructose menu items by institutionalized elderly persons. Endres J, et al. **J Am Diet Assoc** 1990 Mar;90(3):431–3

Relationships between food consumption and dietary intake among healthy volunteers and implications for meeting dietary goals. Engle A, et al. **J Am Diet Assoc** 1990 Apr; 90(4):526–30, 533

An evaluation of dietary intakes of triathletes: are RDAs being met? Green DR, et al. **J Am Diet Assoc** 1989 Nov; 89(11):1653–4

Nutrition and the precontest preparations of a male bodybuilder. Hickson JF Jr, et al. **J Am Diet Assoc** 1990 Feb;90(2):264–7

Dietary patterns of women smokers and non-smokers. Larkin FA, et al. **J Am Diet Assoc** 1990 Feb;90(2):230–7

Contribution of various food groups to dietary vitamin B-6 intake in free-living, low-income elderly persons. Manore MM, et al. **J Am Diet Assoc** 1990 Jun;90(6):830–4

Assessment and implications of the dietary intakes of hospitalized psychogeriatric patients. Martinez JA, et al. **J Am Diet Assoc** 1990 Aug;90(8):1111–4

An evaluation of food group intakes by Mexican-American children. Murphy SP, et al. **J Am Diet Assoc** 1990 Mar; 90(3):388–93

Validation of a quantitative food frequency questionnaire for rapid assessment of dietary calcium intake. Musgrave KO, et al. **J Am Diet Assoc** 1989 Oct;89(10):1484–8

Daily intakes of nine nutritional elements: analyzed vs. calculated values. Pennington JA, et al. **J Am Diet Assoc** 1990 Mar;90(3):375–81

Hypophagia among hospitalized elderly. Rammohan M, et al. **J Am Diet Assoc** 1989 Dec;89(12):1774–9

Dietary patterns and nutrient intakes of toddlers from low-income families in Denver, Colorado. Sanjur D, et al. **J Am Diet Assoc** 1990 Jun;90(6):823–9

Factors affecting food intake of women with Alzheimer's type dementia in long-term care. Suski NS, et al. **J Am Diet Assoc** 1989 Dec;89(12):1770–3

Dietary assessment instruments for preschool children: reliability of parental responses to the 24-hour recall and a food frequency questionnaire. Treiber FA, et al. **J Am Diet Assoc** 1990 Jun;90(6):814–20

Analysis of macrocomponents and fatty acids in the market basket of male adolescents in The Netherlands. van Dokkum W, et al. **J Am Diet Assoc** 1990 Jan;90(1):77–81

Dietary assessment in children using electronic methods: telephones and tape recorders. Van Horn LV, et al. **J Am Diet Assoc** 1990 Mar;90(3):412–6

Factors affecting the dietary habits of adolescents with cystic fibrosis. Wilson-Goodman V, et al. **J Am Diet Assoc** 1990 Mar;90(3):429–31

Feed intake, weaning weight and net returns comparisons for four breeding systems. Armstrong SL, et al. **J Anim Sci** 1990 Jul;68(7):1848–56

Utilization of medium-chain triglycerides by neonatal piglets: I. Effects on milk consumption and body fuel utilization. Benevenga NJ, et al. **J Anim Sci** 1989 Dec;67(12):3331–9

The role of food consumption factors in establishing drug tolerances. Benson R. **J Anim Sci** 1990 Mar;68(3):874–9 (5 ref.)

Effects of intake and forage level on site and extent of digestion of plant cell wall monomeric components by sheep. Bourquin LD, et al. **J Anim Sci** 1990 Aug; 68(8):2479–95

Feed intake, digestion and digesta characteristics of cattle fed Bermudagrass or orchardgrass alone or with ground barley or corn. Brake AC, et al. **J Anim Sci** 1989 Dec; 67(12):3425–36

Breed means for average daily gain, feed conversion and intake of beef bulls during postweaning feedlot performance tests. Chewning JJ, et al. **J Anim Sci** 1990 Jun;68(6):1500–4

Supplementation of dormant tallgrass-prairie forage: II. Performance and forage utilization characteristics in grazing beef cattle receiving supplements of different protein concentrations. DelCurto T, et al. **J Anim Sci** 1990 Feb;68(2):532–42

Quantitative analysis of nycterohemeral eating and ruminating patterns in heifers with different voluntary intakes and effects of monensin. Deswysen AG, et al. **J Anim Sci** 1989 Oct;67(10):2751–61

Voluntary consumption and digestion of diets high in endophyte-infected fescue by growing Holstein steers. Goetsch AL, et al. **J Anim Sci** 1989 Sep;67(9):2263–9

Effects of buffer or DL-methionine with different amounts of supplemental corn on feed intake and nutrient digestion by Holstein steers consuming bermudagrass hay. Hall KL, et al. **J Anim Sci** 1990 Jun;68(6):1674–82

Steam-rolled wheat diets for finishing cattle: effects of dietary roughage and feed intake on finishing steer performance and ruminal metabolism. Kreikemeier KK, et al. **J Anim Sci** 1990 Jul;68(7):2130–41

Effects of rate of gain during winter on subsequent grazing and finishing performance. Lewis JM, et al. **J Anim Sci** 1990 Aug;68(8):2525–9

Feed intake and weight gain of growing goats fed diets of various energy and protein levels. Lu CD, et al. **J Anim Sci** 1990 Jun;68(6):1751–9

Influence of dietary energy intake on prepubertal development of Brahman bulls. Nolan CJ, et al. **J Anim Sci** 1990 Apr;68(4):1087–96

Energy utilization in mature ewes from seven breeds with diverse production potentials. Olthoff JC, et al. **J Anim Sci** 1989 Oct;67(10):2550–64

Composition of the whole body and component fractions in mature ewes from seven breeds. Olthoff JC, et al. **J Anim Sci** 1989 Oct;67(10):2565–75

Differential compensatory growth in swine following control of feed intake by a high-alfalfa diet fed ad libitum or by limited feed. Pond WG, et al. **J Anim Sci** 1990 Feb; 68(2):352–62

Effect of group size and feeding regimen on nutrient digestibility studies with weanling pigs. Reinhart GA, et al. **J Anim Sci** 1989 Oct;67(10):2684–91

Intake and digestion of low-quality meadow hay by steers and performance of cows on native range when fed protein supplements containing various levels of corn. Sanson DW, et al. **J Anim Sci** 1990 Mar;68(3):595–603

Intake and digestibility of low-quality meadow hay by cattle receiving various levels of whole shelled corn. Sanson DW, et al. **J Anim Sci** 1989 Nov;67(11):2854–62

Nutrition of goats as influenced by thinning and clearing of deciduous woodland in northeastern Brazil. Schacht WH, et al. **J Anim Sci** 1989 Oct;67(10):2487–97

Effect of age of exposure on consumption of a shrub by sheep. Squibb RC, et al. **J Anim Sci** 1990 Apr;68(4):987–97

Intake of direct cut or wilted grass silage as related to chewing behavior, ruminal characteristics and site and extent of digestion by heifers. Teller E, et al. **J Anim Sci** 1989 Oct;67(10):2802–9

Immune, growth and carcass responses of ram lambs to active immunization against desulfated cholecystokinin (CCK-8). Trout WE, et al. **J Anim Sci** 1989 Oct;67(10):2709–14

Redundant vagal mediation of the synergistic satiety effect of pancreatic glucagon and cholecystokinin in sham feeding rats. Le Sauter J, et al. **J Auton Nerv Syst** 1990 Apr; 30(1):13–22

Mechanical feeding aids for patients with ataxia: design considerations. Broadhurst MJ, et al. **J Biomed Eng** 1990 May;12(3):209–14

Reduced postprandial skeletal muscle blood flow contributes to glucose intolerance in human obesity. Baron AD, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1525–33

Effect of calcitonin on gastric emptying and on serum insulin and gastrin concentrations after ingestion of a mixed solid-liquid meal in humans. Jonderko K, et al. **J Clin Gastroenterol** 1990 Feb;12(1):22–8

Postprandial plasma retinyl ester response is greater in older subjects compared with younger subjects. Evidence for delayed plasma clearance of intestinal lipoproteins. Krasinski SD, et al. **J Clin Invest** 1990 Mar;85(3):883–92

Effects of feeding frequency and exogenous somatotropin on lipolysis, hormone profiles, and milk production in dairy cows. French N, et al. **J Dairy Sci** 1990 Jun;73(6):1552–9

Effect of hydrogenated fat on feed intake, nutrient digestion, and lactation performance of dairy cows. Jenkins TC, et al. **J Dairy Sci** 1989 Sep;72(9):2316–24

Efficiency of feed utilization in Holsteins selected for yield. Legates JE. **J Dairy Sci** 1990 Jun;73(6):1533–6

Prediction of total intake of dry matter and net energy in a lactation. Moore TL, et al. **J Dairy Sci** 1990 May; 73(5):1255–62

Dietary interaction of cane molasses with source of roughage: intake and lactation effects. Morales JL, et al. **J Dairy Sci** 1989 Sep;72(9):2331–8

Effect of prepartum feeding on milk yield and calf growth rate in limited-suckled and nonsuckled buffaloes. Usmani RH, et al. **J Dairy Sci** 1989 Aug;72(8):2087–94

A comparison of the seasonal hormone changes and patterns of growth, voluntary food intake and reproduction in juvenile and adult red deer (Cervus elaphus) and Père David's deer (Elaphurus davidianus) hinds. Loudon AS, et al. **J Endocrinol** 1989 Sep;122(3):733–45

Danger at the waterhole. Purdy JE. **J Gen Psychol** 1990 Jan;117(1):107–13

Age-related decrease in serum angiotensin converting enzyme activity: the role of thyroidal status and food intake. Mooradian AD, et al. **J Gerontol** 1990 Jan; 45(1):B24–7

Development, food intake, and ethinylestradiol influence hepatic triglyceride lipase and LDL-receptor mRNA levels in rats. Staels B, et al. **J Lipid Res** 1990 Jul; 31(7):1211–8

Cholesterol metabolism, digestion rates and postprandial changes in serum of swine fed purified diets containing either casein or soybean protein. Beynen AC, et al. **J Nutr** 1990 May;120(5):422–30

Regulation of rat liver branched-chain alpha-keto acid dehydrogenase activity by meal frequency and dietary protein. Block KP, et al. **J Nutr** 1990 Jul;120(7):793–9

Dietary guar gum effects on postprandial blood glucose, insulin and hydroxyproline in humans. Torsdottir I, et al. **J Nutr** 1989 Dec;119(12):1925–31

Food intake and choice in lean and obese Zucker rats after intragastric carbohydrate preloads. Van Zeggeren A, et al. **J Nutr** 1990 Mar;120(3):309–16

Food and nutrient intake of 6- to 12-month-old infants fed formula or cow milk: a summary of four national surveys. Ernst JA, et al. **J Pediatr** 1990 Aug;117(2 Pt 2):S86–100

A simple technique to feed newborn piglets. McClead RE Jr, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):107–10

Duodenal bulb control of the flow rate of digesta in the fasted and fed dog. Malbert CH, et al. **J Physiol (Lond)** 1989 Feb;409:371–84

Adolescent concerns about weight and eating: a social-development perspective. Wardle J, et al. **J Psychosom Res** 1990;34(4):377–91

A model of postprandial hyperinsulinemia in miniature swine. Weingand KW. **Lab Anim Sci** 1989 Sep;39(5):394–9

Effect of sodium intake on fasting and postprandial levels of atrial natriuretic factor in humans. Solhaug MJ, et al. **Life Sci** 1989;45(10):931–7

Dietary intake levels and requirements of Mg and Ca for different segments of the U.S. population. Lichton IJ. **Magnesium** 1989;8(3–4):117–23 (15 ref.)

Postprandial plasma vitamin A metabolism in humans: a reassessment of the use of plasma retinyl esters as markers for intestinally derived chylomicrons and their remnants. Krasinski SD, et al. **Metabolism** 1990 Apr;39(4):357–65

Thermic effect of a meal over 3 and 6 hours in lean and obese men. Segal KR, et al. **Metabolism** 1990 Sep; 39(9):985–92

Potential associations between resting energy expenditure, thermic effect of a meal, and VO2 max in young adult males [letter; comment] Soares MJ, et al. **Metabolism** 1989 Dec;38(12):1251–3 Comment on: Metabolism 1989 Jan;38(1):85–90.

Blood glucose measurements during symptomatic episodes in patients with suspected postprandial hypoglycemia [see comments] Palardy J, et al. **N Engl J Med** 1989 Nov 23; 321(21):1421–5 Comment in: N Engl J Med 1989 Nov 23;321(21):1472–4. Comment in: N Engl J Med 1990 Apr 12;322(15):1087–8.

Hypoglycemia and the postprandial syndrome [editorial; comment] Service FJ. **N Engl J Med** 1989 Nov 23; 321(21):1472–4 Comment on: N Engl J Med 1989 Nov 23;321(21):1421–5.

Body composition, energy, protein and iron intake of Nigerian female nursing students. Cole AH, et al. **Nahrung** 1989;33(8):703–8

Experimental uraemia with associated plasma amino acid abnormalities but without retarded food intake and weight gain. Haines DJ, et al. **Nephron** 1989;53(3):233–7

Naloxone inhibition of postprandial growth hormone releasing hormone-induced growth hormone release in obesity. De Marinis L, et al. **Neuroendocrinology** 1989 Nov; 50(5):529–32

Radioimmunoassay to determine postprandial changes in plasma neuropeptide Y levels in awake dogs. Balasubramaniam A, et al. **Neuropeptides** 1989 Oct; 14(3):209–12

Development and relative validity of a food frequency questionnaire for the estimation of intake of retinol and beta-carotene. Stiggelbout AM, et al. **Nutr Cancer** 1989; 12(4):289–99

Changes in food consumption patterns in Bahrain. Musaiger AO. **Nutr Health** 1990;6(4):183–8

Adolescent eating behavior. **Nutr Rev** 1989 Sep;47(9):273–4 (4 ref.)

What did our late paleolithic (preagricultural) ancestors eat? [letter] Eaton SB. **Nutr Rev** 1990 May;48(5):227–30

Assessment of the sensory properties of food. MacFie HJ. **Nutr Rev** 1990 Feb;48(2):87–93; discussion 114–31 (16 ref.)

Cholecystokinin receptors mediate enhanced memory retention produced by feeding and gastrointestinal peptides. Flood JF, et al. **Peptides** 1989 Jul–Aug;10(4):809–13

Food and nicotine metabolism. Lee BL, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):621–5

Variations in food preference and consumption across the menstrual cycle. Bowen DJ, et al. **Physiol Behav** 1990 Feb; 47(2):287–91

Histamine in brain may have no role for histaminergic control of food-related drinking in the rat. Kraly FS, et al. **Physiol Behav** 1990 Jan;47(1):5–9

Learning and meal-associated drinking: meal-related deficits produce adjustments in postprandial drinking. Lucas GA, et al. **Physiol Behav** 1989 Sep;46(3):361–7

Importance of feeding time in pair-fed, ovariectomized rats. Shimomura Y, et al. **Physiol Behav** 1989 Jun;45(6):1197–200

Influence of the sense of taste on broiler chick feed consumption. Balog JM, et al. **Poult Sci** 1989 Nov; 68(11):1519–26

Anxiety and food intake in men. Bellisle F, et al. **Psychosom Med** 1990 Jul–Aug;52(4):452–7

The peptide release inhibitor, Octreotide (SMS 201-995), prevents the haemodynamic changes following food ingestion in normal human subjects. Kooner JS, et al. **Q J Exp Physiol** 1989 Jul;74(4):569–72

Water absorption from the pig proximal colon: relations with feeding and flow of digesta. Theodorou V, et al. **Q J Exp Physiol** 1989 Jul;74(4):521–9

Ostertagia ostertagi infection in the calf: effects of a trickle challenge on the hormonal control of digestive and metabolic function. Fox MT, et al. **Res Vet Sci** 1989 Nov; 47(3):299–304

Influence of food-intake during a fixed period on hydrocortisone-induced relapse of acetic acid ulcers in rats. Ito M, et al. **Scand J Gastroenterol Suppl** 1989;162:154–7

Nutritional support for cancer patients receiving abdominal and pelvic radiotherapy: a randomized prospective clinical experiment of intravenous versus oral feeding. Valerio D, et al. **Surg Forum** 1978;29:145–8

Small-bowel origin of the signal for meal-induced jejunal absorption. Bastidas JA, et al. **Surgery** 1990 Aug; 108(2):376–83

Appetite, digestive efficiency, feed utilization and carcass evaluation of housed calves naturally infected with gastrointestinal nematodes. Bell SL, et al. **Vet Parasitol** 1990 Jan;34(4):323–33

The eating patterns and problems of homeless women. Bunston T, et al. **Women Health** 1990;16(1):43–62

Aspects of food production, consumption and energy values. **World Rev Nutr Diet** 1990;61:1–208

Patterns of food production and consumption in the ASEAN region. Khor GL, et al. **World Rev Nutr Diet** 1990;61:1–40 (44 ref.)

Strategies for analyzing nutritional data for epidemiological purposes—conceptual framework. Oltersdorf U, et al. **Z Ernahrungswiss** 1989 Sep;28(3):240–59 (114 ref.)

Nitrate, nitrite, and N-nitroso compounds in Finnish foods and the estimation of the dietary intakes. Penttilä PL, et al. **Z Lebensm Unters Forsch** 1990 Apr;190(4):336–40

The effect of feed intake and portal volatile fatty acid infusion on insulin and free amino acid concentrations in plasma of lambs. Husvéth F, et al. **Zentralbl Veterinarmed [A]** 1990 Jun;37(5):372–8

[Estimation of the daily dietary fiber intake in France] Bagheri SM, et al. **Ann Nutr Metab** 1990;34(2):69–75 (Eng. Abstr.) (Fre)

[Eating before, during and after physical exercise in normal and diabetic subjects] Jandrain B, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:159–70 (74 ref.) (Fre)

[Consumption and ruminating behavior in sheep. 5. Continuous registration and recording of consumption and rumination dependent jaw movements in sheep based on acceleration measurements] Düberitz H, et al. **Arch Tierernahr** 1989 Jun;39(6):585–92 (Eng. Abstr.) (Ger)

[The vitamin A requirement and the vitamin A status of growing cattle. 1. Studies of calves] Flachowsky G, et al. **Arch Tierernahr** 1990 Jan–Feb;40(1–2):85–100 (Eng. Abstr.) (Ger)

[The vitamin A requirement and the vitamin A status of growing cattle. 2. Studies of fattening cattle] Wilk H, et al. **Arch Tierernahr** 1990 Jan–Feb;40(1–2):101–15 (Eng. Abstr.) (Ger)

[The adaptation of the morphometric parameters of fat cell size for the purposes of animal science research. 2. Cellularity of subcutaneous adipose tissue of different swine breeds influenced by graduated feed levels and in relation to metabolic data and parameters of body fat degeneration] Sturm G, et al. **Berl Munch Tierarztl Wochenschr** 1990 Apr 1;103(4):112–7 (Eng. Abstr.) (Ger)

[Postprandial lipid metabolism and atherosclerosis. An international symposium. 10 March 1990, Frankfurt am Main. Abstracts] **Internist (Berl)** 1990 Jun;31(6 Suppl [POSTPRA]):1–12 (Ger)

[Comparison between oral nutrition and enteral nutrition using a percutaneous endoscopically guided gastrostomy (PEG) in patients undergoing radiotherapy for head and neck tumors] Fietkau R, et al. **Strahlenther Onkol** 1989 Dec; 165(12):844–51 (Eng. Abstr.) (Ger)

[Description of a special form of postprandial hyperlipidemia: possible cause of premature coronary heart disease] Wieland E, et al. **Ther Umsch** 1990 Jun;47(6):492–8 (Eng. Abstr.) (Ger)

[Penicillin VK absorption during fasting and after eating] Sarel R, et al. **Harefuah** 1989 Dec 15;117(12):430–2 (Eng. Abstr.) (Heb)

[Various factors influencing the motility of the esophagogastric junction] Murakami S, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Oct;25(5):209–11 (Jpn)

[Influence of food intake on electrogastrography] Okuno H, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Oct; 25(5):178–81 (Jpn)

[Postprandial hypotension.syncope in Shy-Drager syndrome and its treatment with oral L-DOPS] Hasegawa Y, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):939–43 (Jpn)

[The effect of modified sham-feeding on gastrin-stimulated gastric secretion in patient with duodenal ulcer] Sakakibara T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr; 87(4):951–6 (Eng. Abstr.) (Jpn)

[Effects of food intake on the pharmacokinetics, metabolism and urinary excretion of two sustained release theophylline preparations in nonanesthetized dogs] Suzuki S, et al. **Nippon Yakurigaku Zasshi** 1990 Jun;95(6):361–8 (Eng. Abstr.) (Jpn)

[Effects of continuous infusion of vasopressin on circadian rhythms of food and water intake, urine output and electrolyte excretion in Brattleboro rats] Stolnev AG, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):109–11 (Eng. Abstr.) (Rus)

[Characteristics of food-induced leukocytic reaction in micro- and macrofocal myocardial infarction] Vinogradov AV, et al. **Kardiologiia** 1990 Mar;30(3):17–20 (Eng. Abstr.) (Rus)

DRUG EFFECTS

The effect of neuropeptide Y on feeding and its alteration by receptor antagonists in rats. Kadar T, et al. **Acta Physiol Hung** 1990;75 Suppl:159–60

Feed intake after inhibition of histamine catabolism. Lecklin A, et al. **Agents Actions** 1990 Apr;30(1–2):216–9

Effects of serotonin uptake blockers and of 5-hydroxytryptophan on the voluntary consumption of ethanol, water and solid food by UChA and UChB rats. Alvarado R, et al. **Alcohol** 1990 Jul–Aug;7(4):315–9

Effect of drinking soda sweetened with aspartame or high-fructose corn syrup on food intake and body weight. Tordoff MG, et al. **Am J Clin Nutr** 1990 Jun;51(6):963–9

Effect of fourth ventricular neuropeptide Y and peptide YY on ingestive and other behaviors. Corp ES, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):R317–23

CNS injection of CCK in rats: effects on real and sham feeding and gastric emptying. Della-Fera MA, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1165–9

Bombesin affects feeding independent of a gastric mechanism or site of action. Hostetler AM, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1219–24

Dexfenfluramine: action with estradiol on food intake and body weight in ovariectomized rats. Souquet AM, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R211–5

Aspartame: effect on lunch-time food intake, appetite and hedonic response in children. Anderson GH, et al. **Appetite** 1989 Oct;13(2):93–103

Diet composition alters the acceptance of fat by rats. Reed DR, et al. **Appetite** 1990 Jun;14(3):219–30

Inhibitory effects of cholecystokinin develop through interaction with duodenal signals. Cox JE. **Behav Brain Res** 1990 Apr 16;38(1):35–44

Adrenaline anorexia blocked by alpha and beta adrenergic antagonists in 24-h fasted rats. De-la-Cruz F, et al. **Behav Brain Res** 1990 Mar 5;37(2):145–8

Injection of 5,7-dihydroxytryptamine into the B3 raphe region of neonatal rat pups induces hyperalgesia but only slight alterations in ingestion-related behaviors. Enters EK, et al. **Behav Neural Biol** 1990 Mar;53(2):244–57

Effects of dl-fenfluramine on dextrin and casein intakes influenced by textural preferences. Baker BJ, et al. **Behav Neurosci** 1990 Feb;104(1):153–9

The anorectic effects of CRH and restraint stress decrease with repeated exposures. Krahn DD, et al. **Biol Psychiatry** 1990 May 15;27(10):1094–102

Effect of hypobaric hypoxia and almitrine on voluntary salt and water intake in carotid body denervated spontaneously hypertensive rats. Behm R, et al. **Biomed Biochim Acta** 1989;48(9):689–95

The involvement of 5-hydroxytryptaminergic and dopaminergic mechanisms in the eating induced by buspirone, gepirone and ipsapirone. Fletcher PJ, et al. **Br J Pharmacol** 1990 Mar;99(3):519–25

Growth, food intake and energy balance of layer and broiler chickens offered glucose in the drinking water and the effect of dietary protein content. Engku Azahan EA, et al. **Br Poult Sci** 1989 Dec;30(4):907–17

Prolonged survival of tumor-bearing rats with repetitive low-dose recombinant tumor necrosis factor. Sheppard BC, et al. **Cancer Res** 1990 Jul 1;50(13):3928–33

Circadian rhythms of food intake in gastroduodenally-ulcerated rats: effects of three anti-ulcer drugs. Madrid JA, et al. **Chronobiol Int** 1989;6(4):321–8

The effects of phenylpropanolamine on dietary intake, physical activity, and body weight after smoking cessation. Klesges RC, et al. **Clin Pharmacol Ther** 1990 Jun; 47(6):747–54

Evidence that decreased feeding induced by systemic injection of cholecystokinin is mediated by CCK-A receptors. Dourish CT, et al. **Eur J Pharmacol** 1989 Dec 7;173(2–3):233–4

The effects of the enantiomers of the dopamine agonist N-0437 on food consumption and yawning behaviour in rats. Timmerman W, et al. **Eur J Pharmacol** 1989 Dec 12; 174(1):107–14

Indomethacin blocks the anorexic action of interleukin-1. Uehara A, et al. **Eur J Pharmacol** 1989 Nov 7;170(3):257–60

Effect of centrally and peripherally administered beta-endorphin on food intake in rats. Triscari J, et al. **Int J Pept Protein Res** 1989 Nov;34(5):358–62

Effects of a monensin ruminal delivery device on daily gain, forage intake and ruminal fermentation of steers grazing irrigated winter wheat pasture. Davenport RW, et al. **J Anim Sci** 1989 Aug;67(8):2129–39

The effect of zeranol on live weight gain, feed intake and carcass composition of steers during compensatory growth. Fumagalli A, et al. **J Anim Sci** 1989 Dec;67(12):3397–409

Thiamin supplementation and the ingestive behavior of beef cattle grazing endophyte-infected tall fescue. Lauriault LM, et al. **J Anim Sci** 1990 May;68(5):1245–53

Growth, feed efficiency and carcass composition of finishing Friesian steers fed the beta-adrenergic agonist L-644,969. Moloney AP, et al. **J Anim Sci** 1990 May;68(5):1269–77

Voluntary feed intake, acid-base balance and partitioning of urinary nitrogen in lambs fed corn silage with added sodium bicarbonate or sodium sesquicarbonate. Phillip LE, et al. **J Anim Sci** 1989 Aug;67(8):2116–22

Responses of dairy cows in early lactation to bovine somatotropin and ruminally inert fat. Schneider PL, et al. **J Dairy Sci** 1990 May;73(5):1263–8

Effects of melatonin and a dopamine agonist and antagonist on seasonal changes in voluntary intake, reproductive activity and plasma concentrations of prolactin and tri-iodothyronine in red deer hinds. Milne JA, et al. **J Endocrinol** 1990 May;125(2):241–9

Differential development of tolerance to the effects of d-amphetamine and fenfluramine on food intake in baboons. Foltin RW. **J Pharmacol Exp Ther** 1990 Mar; 252(3):960–9

Effect of phenylpiperidine opioid antagonists on food consumption and weight gain of the obese Zucker rat. Shaw WN, et al. **J Pharmacol Exp Ther** 1990 Apr; 253(1):85–9

Effect of T-2 toxin on feed intake, digestion and pathology of rabbits. Fekete S, et al. **Lab Anim Sci** 1989 Nov; 39(6):603–6

Effects of the selective kappa opioid antagonist, nor-binaltorphimine, on electrically-elicited feeding in the rat. Carr KD, et al. **Life Sci** 1989;45(19):1787–92

Reduction of negative alliesthesia for sweet gustatory stimuli by cyproheptadine, a serotonin antagonist. Fantino M, et al. **Life Sci** 1990;46(19):1381–7

Effects of nicotine on body weight, food consumption and body composition in male rats. Winders SE, et al. **Life Sci** 1990;46(21):1523–30

Effects of a new cholecystokinin analogue (JMV 236) on food intake and brain monoamines in the rat. Gourch A, et al. **Neuropeptides** 1990 Jan;15(1):37–41

The ontogeny of opioid receptors mediating opiate-induced feeding in rats. Capuano CA, et al. **Neuropharmacology** 1990 May;29(5):433–7

Saccharin consumption increases food consumption in rats. **Nutr Rev** 1990 Mar;48(3):163–5 (16 ref.)

Intake of individual macronutrients following IP injections of BBS and CCK in rats. McCoy JG, et al. **Peptides** 1990 Mar–Apr;11(2):221–5

Effects of a brain-enhanced chemical delivery system for estradiol on body weight and food intake in intact and ovariectomized rats. Simpkins JW, et al. **Pharm Res** 1989 Jul;6(7):592–600

Enantiomers of phenylpropanolamine suppress food intake in hyperphagic rats. Eisenberg MS, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):865–9

Differential effects of clonidine analogs on food intake in rabbits and monkeys. Katz NL, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):433–7

The effect of centrally administered naloxone on deprivation and drug-induced feeding. Levine AS, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):409–12

Dietary modulation of the anorectic potency of amphetamine. Marks-Kaufman R, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):301–6

Negative allesthesia and decreased endogenous opiate system activity in anorexia nervosa. Melchior JC, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):885–8

Unexpected responses of the obese "cafeteria" rat to the peptide FMRF-amide. Robert JJ, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):341–4

Behavioral and biochemical correlates of chronic administration of quipazine. Valencia-Flores M, et al. **Pharmacol Biochem Behav** 1990 Jun;36(2):299–304

Effects of haloperidol on anorexia induced by l-norepinephrine and d-amphetamine in adult rats. Wellman PJ. **Pharmacol Biochem Behav** 1990 Feb;35(2):457–60

Effects of perifornical hypothalamic microinjections of phenylpropanolamine and amphetamine on latency to feed and mash intake in rats. Wellman PJ, et al. **Pharmacol Biochem Behav** 1990 Feb;35(2):461–4

Kinetics and thresholds of several indices of lindane-induced toxicity. Woolley DE, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):787–92

Alterations of ventricular pH alter water intake and food consumption in rats. Badgaiyan RD, et al. **Physiol Behav** 1990 Mar;47(3):489–92

Postingestive alliesthesia: the rat tells the same story. Cabanac M, et al. **Physiol Behav** 1990 Mar;47(3):539–43

Effects of clonidine on self-selection of nutrients. Chafetz MD, et al. **Physiol Behav** 1989 Dec;46(6):999–1002

Effects of the CCK receptor antagonist MK-329 on food intake in pigs. Ebenezer IS, et al. **Physiol Behav** 1990 Jan; 47(1):145–8

Enhanced anorectic potency of naloxone in rats sham feeding 30% sucrose: reversal by repeated naloxone administration. Kirkham TC. **Physiol Behav** 1990 Mar;47(3):419–26

Response to chronic insulin administration: effect of area postrema ablation. Kott JN, et al. **Physiol Behav** 1989 Dec; 46(6):971–6

Comparison of the effects of bacterial lipopolysaccharide and muramyl dipeptide on food intake. Langhans W, et al. **Physiol Behav** 1990 May;47(5):805–13

Alcohol drinking, food and fluid intakes and body weight gain in rats. Larue-Achagiotis C, et al. **Physiol Behav** 1990 Mar;47(3):545–8

Effects of aspartame and sucrose on hunger and energy intake in humans. Mattes R. **Physiol Behav** 1990 Jun;47(6):1037–44

Effects of 5-hydroxytryptamine and d-fenfluramine on sham feeding and sham drinking in the gastric-fistulated rat. Neill JC, et al. **Physiol Behav** 1989 Dec;46(6):949–53

Central administration of corticotropin releasing factor in the pig: effects on operant feeding, drinking and plasma cortisol. Parrott RF. **Physiol Behav** 1990 Mar;47(3):519–24

Aspartame ingested without tasting inhibits hunger and food intake. Rogers PJ, et al. **Physiol Behav** 1990 Jun;

47(6):1239–43

A pharmacological analysis of the eating response induced by 8-OH-DPAT injected into the dorsal raphé nucleus reveals the involvement of a dopaminergic mechanism. Fletcher PJ, et al. **Psychopharmacology (Berl)** 1990; 100(2):188–94

Evidence for feeding elicited through antihistaminergic effects of tricyclic antidepressants in the rat hypothalamus. Ookuma K, et al. **Psychopharmacology (Berl)** 1990; 101(4):481–5

Control of food intake by kainate/quisqualate receptors in the median raphe nucleus. Wirtshafter D, et al. **Psychopharmacology (Berl)** 1990;101(1):137–41

Vasopressin reduces food intake in goats. Meyer AH, et al. **Q J Exp Physiol** 1989 Jul;74(4):465–73

Comparative effects of pair-feeding and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on various biochemical parameters in female rats. Wahba ZZ, et al. **Toxicology** 1989 Dec 15;59(3):311–23

[The subchronic toxicity of 5-vinyloxazolidine-2-thione in rats] Lewerenz HJ, et al. **Nahrung** 1989;33(10):965–73 (Eng. Abstr.) (Ger)

[The effect of cholecystokinin antagonists on satiety induced by cholecystokinin octapeptide in dogs] Sakatani N, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Oct 20;65(10):1149–58 (Eng. Abstr.) (Jpn)

PHYSIOLOGY

Overfeeding: cardiovascular and metabolic response during continuous formula infusion in adult humans. Casper K, et al. **Am J Clin Nutr** 1990 Oct;52(4):602–9

Effect of meal frequency in schoolchildren. Changes in weight-height proportion and skinfold thickness. Fábry P, et al. **Am J Clin Nutr** 1966 May;18(5):358–61

Water volume and consumption time: influence on the glycemic and insulinemic responses in non-insulin-dependent diabetic subjects. Gregersen S, et al. **Am J Clin Nutr** 1990 Sep;52(3):515–8

Postingestional effects of a high-protein diet on the regulation of food intake in monkeys. Hannah JS, et al. **Am J Clin Nutr** 1990 Aug;52(2):320–5

A longitudinal study of gross body composition and body conformation and their association with food and activity in a teen-age population. Views of teen-age subjects on body conformation, food and activity. Huenemann RL, et al. **Am J Clin Nutr** 1966 May;18(5):325–38

Basal and postprandial metabolic rates in lactating and nonlactating women. Motil KJ, et al. **Am J Clin Nutr** 1990 Oct;52(4):610–5

Refeeding after fasting in rats: effects of duration of starvation and refeeding on food efficiency in diet-induced obesity. Yang MU, et al. **Am J Clin Nutr** 1990 Jun;51(6):970–8

Neonatal cardiac deceleration on suckle feeding. Winter ST, et al. **Am J Dis Child** 1966 Jul;112(1):11–20

Left ventricular performance during the course of a day and meals in dilated cardiomyopathy and heart failure. Rome MP, et al. **Am J Med Sci** 1989 Nov;298(5):289–94

Identification of vagal preganglionics that mediate cephalic phase insulin response. Berthoud HR, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R523–30

Short-term hormonal responses to food intake in peripubertal female rats. Bronson FH, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):R25–31

Changes in free amino acids of caymans after feeding. Coulson RA, et al. **Am J Physiol** 1967 Jun;212(6):1308–12

Site of action of putative lipostatic factor: food intake and peripheral pentose shunt activity. Harris RB, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):R45–52

Angiotensin II mediates drinking elicited by eating in the rat. Kraly FS, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R436–42

Feeding influences plasma cortisol levels during preweaning life in baboons. Lewis DS, et al. **Am J Physiol** 1990 Jul; 259(1 Pt 2):R157–62

Renal sympathetic nerve activity and plasma catecholamines during eating in cats. Matsukawa K, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1034–9

Phase-shifting the light-dark cycle resets the food-entrainable circadian pacemaker. Ottenweller JE, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):R994–1000

Vagal sensory neurons are required for lipoprivic but not glucoprivic feeding in rats. Ritter S, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1395–401

The microstructure of ingestive behavior. Davis JD. **Ann N Y Acad Sci** 1989;575:106–19; discussion 120–1 (30 ref.)

Effects of meal size reduction on postprandial variables in male volunteers. van Amelsvoort JM, et al. **Ann Nutr Metab** 1990;34(3):163–74

Feed intakes and meal patterns of sheep during pregnancy and lactation, and after weaning. Bermudez FF, et al. **Appetite** 1989 Dec;13(3):211–22

Conditioned meal initiation in young children. Birch LL, et al. **Appetite** 1989 Oct;13(2):105–13

Dietary restriction delays gastric emptying in rats. Robinson PH, et al. **Appetite** 1990 Jun;14(3):193–201

Hunger and food intake following consumption of low-calorie foods. Rolls BJ, et al. **Appetite** 1989 Oct; 13(2):115–27

Gastrointestinal correlates of the development of hunger in man. Sepple CP, et al. **Appetite** 1989 Dec;13(3):183–91

Possible role for endogenous opiates in the regulation of food intake in the newborn rat. Lal KJ, et al. **Arch Int Pharmacodyn Ther** 1989 Sep-Oct;301:91–9

Normal functional range of motion of upper limb joints during performance of three feeding activities. Safaee-Rad R, et al. **Arch Phys Med Rehabil** 1990 Jun;71(7):505–9

Patterns of human drinking: effects of exercise, water temperature, and food consumption. Szlyk PC, et al. **Aviat Space Environ Med** 1990 Jan;61(1):43–8

Effect of a late evening meal on nitrogen balance in patients with cirrhosis of the liver. Swart GR, et al. **BMJ** 1989 Nov 11;299(6709):1202–3

Short term haemodynamic effects of converting enzyme inhibition before and after eating in patients with moderate heart failure caused by dilated cardiomyopathy: a double blind study [see comments] Herrlin B, et al. **Br Heart J** 1990 Jan;63(1):26–31 Comment in: Br Heart J 1990 Jan;63(1):5–6.

Haemodynamic effects of eating [comment] Oakley GD. **Br Heart J** 1990 Jan;63(1):5–6 (10 ref.) Comment on: Br Heart J 1989 Jun;61(6):506–9. Comment on: Br Heart J 1990 Jan;63(1):22–5. Comment on: Br Heart J 1990 Jan;63(1):26–31.

Effects of food on the central and peripheral haemodynamic response to upright exercise in normal volunteers [see comments] Yi JJ, et al. **Br Heart J** 1990 Jan;63(1):22–5 Comment in: Br Heart J 1990 Jan;63(1):5–6.

Factors affecting the voluntary intake of food by sheep. 5. The inhibitory effect of hypertonicity in the rumen. Carter RR, et al. **Br J Nutr** 1990 Jul;64(1):285–99

The effect of feeding frequency and meal size on amounts of total and parotid saliva secreted by sheep. Carter RR, et al. **Br J Nutr** 1990 Mar;63(2):305–18

Parotid secretion patterns during meals and their relationships to the tonicity of body fluids and to gastrin and pancreatic polypeptide in sheep. Carter RR, et al. **Br J Nutr** 1990 Mar;63(2):319–27

The effect of a 48 h fast on the physiological responses to food ingestion in normal-weight women. Gallen IW, et al. **Br J Nutr** 1990 Jan;63(1):53–64

The effect of environmental temperature on prandial changes in leucocyte sodium transport in man. Ng LL, et al. **Br J Nutr** 1989 Nov;62(3):639–45

Minor difference in postprandial responses of men between starch and sugar when replacing fat in a normal meal. Van Amelsvoort JM, et al. **Br J Nutr** 1990 Jan;63(1):37–51

Cholinergic blockade with pirenzepine improves carbohydrate tolerance and abolishes the GH response to meals in normal subjects. Page MD, et al. **Clin Endocrinol (Oxf)** 1989 May;30(5):519–24

Meal-induced thermogenesis in previously obese patients. Thörne A, et al. **Clin Physiol** 1990 Jan;10(1):99–109

Meal-induced thermogenesis in obese patients before and after weight reduction. Thörne A, et al. **Clin Physiol** 1989 Oct;9(5):481–98

Adaptive behaviour of laboratory rats feeding in hot conditions. Johnson KG, et al. **Comp Biochem Physiol [A]** 1989;94(1):69–72

The effect of oral glucose, protein, fat and water loading on blood pressure and the gastrointestinal peptides VIP and somatostatin in hypertensive elderly subjects. Jansen RW, et al. **Eur J Clin Invest** 1990 Apr;20(2):192–8

Influence of upper and lower thermoneutral room temperatures (20 degrees C and 25 degrees C) on fasting and post-prandial resting metabolism under different outdoor temperatures. Kashiwazaki H, et al. **Eur J Clin Nutr** 1990 May;44(5):405–13

Effect of meal frequency on the thermic effect of food in women. Kinabo JL, et al. **Eur J Clin Nutr** 1990 May; 44(5):389–95

Dietary intakes and activity levels of stunted and non-stunted children in Kingston, Jamaica. Part 1. Dietary intakes. Walker SP, et al. **Eur J Clin Nutr** 1990 Jul;44(7):527–34

Role of cholecystokinin in the control of food intake. Peikin SR. **Gastroenterol Clin North Am** 1989 Dec;18(4):757–75 (122 ref.)

Postprandial colonic transit and motor activity in chronic constipation. Bazzocchi G, et al. **Gastroenterology** 1990 Mar;98(3):686–93

Selective stimulation of colonic motor response to a meal by sigma ligands in dogs. Junien JL, et al. **Gastroenterology** 1990 Sep;99(3):684–9

Thyroid hormone responses to feeding in ob/ob mice. Dubuc PU. **Horm Metab Res** 1989 Oct;21(10):546–9

Effects of central administration of insulin in normal and VMH (ventromedial hypothalamus) lesioned rats on food intake. Thombre DP, et al. **Indian J Physiol Pharmacol** 1989 Oct-Dec;33(4):207–10

Ventromedial hypothalamic lesions attenuate responses of sympathetic nerves to carotid arterial infusions of glucose and insulin. Sakaguchi T, et al. **Int J Obes** 1990; 14(2):127–33

Nutrient intake, body fat, and lipid profiles of competitive male and female bodybuilders. Bazzarre TL, et al. **J Am Coll Nutr** 1990 Apr;9(2):136–42

Forage intake by lactating beef cows differing in potential for milk production. Hatfield PG, et al. **J Anim Sci** 1989 Nov;67(11):3018–27

Adipose tissue lipogenesis in growing steers adapted to different levels of feed intake. Mills SE, et al. **J Anim Sci** 1989 Nov;67(11):3011–7

Postprandial lipoprotein metabolism in normal and obese subjects: comparison after the vitamin A fat-loading test. Lewis GF, et al. **J Clin Endocrinol Metab** 1990 Oct; 71(4):1041–50

Neural mechanism generating firing patterns in jaw motoneurons during the food-induced response in Aplysia kurodai. I. Identification and characterization of premotor neurons. Nagahama T, et al. **J Comp Physiol [A]** 1989 Dec; 166(2):143–50

Effects of feed intake and thermal stress on mammary blood flow and other physiological measurements in lactating dairy cows. Lough DS, et al. **J Dairy Sci** 1990 Feb; 73(2):325–32

Forage intake, ruminal dry matter disappearance, and ruminal blood volatile fatty acids for steers in 18 and 32 degrees C temperatures. Martz FA, et al. **J Dairy Sci** 1990 May; 73(5):1280–7

Milking and feeding-induced release of the gastrointestinal hormones gastrin and somatostatin in dairy cows. Svennersten K, et al. **J Dairy Sci** 1989 Sep;72(9):2276–82

Effect of liver denervation on compensatory changes in food intake, body composition and hepatic enzyme induction after food restriction in rats. Martin RJ, et al. **J Nutr** 1990 Aug;120(8):893–9

Influence of food intake on cold-induced vasodilatation of finger. Takano N, et al. **Jpn J Physiol** 1989;39(5):755–65

Effects of intermittent feeding upon body weight and lifespan in inbred mice: interaction of genotype and age. Goodrick CL, et al. **Mech Ageing Dev** 1990 Jul;55(1):69–87

A cholecystokinin-like hormone activates a feeding-related neural circuit in lobster. Turrigiano GG, et al. **Nature** 1990 Apr 26;344(6269):866–8

Does dietary hyperphagia contradict the lipostatic theory? Ramirez I. **Neurosci Biobehav Rev** 1990 Summer; 14(2):117–23 (60 ref.)

Study on digestibility and energy availability of daily food intake by the Japanese. Part 2. Horse mackerel and milk. Fujii M, et al. **Nippon Eiseigaku Zasshi** 1989 Oct; 44(4):905–10

Factors influencing food intake in man. The Thirteenth Marabou Symposium. Stockholm, June 16–18, 1989. Proceedings. **Nutr Rev** 1990 Feb;48(2):33–134

Sensory influences on food intake. Booth DA. **Nutr Rev** 1990 Feb;48(2):71–7; discussion 114–31 (31 ref.)

Restrained eating and human obesity. Stunkard AJ, et al. **Nutr Rev** 1990 Feb;48(2):78–86; discussion 114–31 (47 ref.)

Endocrinologic control of food intake. Uvnäs-Moberg K. **Nutr Rev** 1990 Feb;48(2):57–63; discussion 114–31 (37 ref.)

Metabolic regulation of food intake. York DA. **Nutr Rev** 1990 Feb;48(2):64–70; discussion 114–31 (50 ref.)

Impact of refeeding on intestinal development and function in infant rabbits subjected to protein-energy malnutrition. Butzner JD, et al. **Pediatr Res** 1990 Mar;27(3):245–51

Metabolic changes caused by irregular-feeding schedule as compared with meal-feeding. Bazotte RB, et al. **Physiol Behav** 1989 Aug;46(2):109–13

The effect of portal and jugular infused glucose, mannitol and saline on food intake in dogs. Bellinger LL, et al. **Physiol Behav** 1989 Oct;46(4):693–8

Lack of diet-induced thermogenesis following lesions of paraventricular nucleus in rats. De Luca B, et al. **Physiol Behav** 1989 Oct;46(4):685–91

Estrous cycle irregularities in overfed rats. Glick Z, et al. **Physiol Behav** 1990 Feb;47(2):307–10

Glucose and insulin responses during mixed meals or infusion of glucose in pregnant and lactating rats. Koiter TR, et al. **Physiol Behav** 1989 Nov;46(5):881–7

Hepatic vagotomy increases consumption of a novel-tasting diet presented immediately after surgery. Langhans W, et al. **Physiol Behav** 1989 Oct;46(4):671–8

The significance of decreased ambulatory activity during the generation by long-term observation of obesity in ovariectomized rats. Shimomura Y, et al. **Physiol Behav** 1990 Jan;47(1):155–9

The shape of the cumulative food intake curve in humans, during basic and manipulated meals. Westerterp-Plantenga MS, et al. **Physiol Behav** 1990 Mar;47(3):569–76

Acute effects of alcohol and food intake on cardiac performance. Kelback H. **Prog Cardiovasc Dis** 1990 Mar-Apr;32(5):347–64 (138 ref.)

Meal-related cholecystokinin secretion in eating and affective disorders. Geracioti TD Jr, et al. **Psychopharmacol Bull** 1989;25(3):444–9 (24 ref.)

Endogenous cholecystokinin reduces feeding in young rats. Weller A, et al. **Science** 1990 Mar 30;247(4950):1589–91

Inducing catatonic patients to eat with daily administration of amobarbital sodium. Lewis JL, et al. **South Med J** 1989 Oct;82(10):1315–6

Feeding and digestive problems in horses. Physiologic responses to a concentrated meal. Clarke LL, et al. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):433–50 (50 ref.)

Ingestive behavior. Houpt KA. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):319–37 (64 ref.)

Post prandial and cholecystokinin-induced emptying of the gall bladder in dogs. Rothuizen J, et al. **Vet Rec** 1990 May 19;126(20):505–7

The effect of food restriction by time-scheduled feeding on the development of body-weight, lifespan and incidence of spontaneous tumours and diseases in male Han:SPRD rats. Deerberg F, et al. **Z Versuchstierkd** 1990;33(1):9–17

[Regulation of food intake] Langhans W, et al. **Z Ernahrungswiss** 1990 Jun;29(2):79–96 (134 ref.) (Eng.

Abstr.) (Ger)
[Central nervous appetite regulation: mechanisms and significance for the development of obesity] Lehnert H, et al. **Z Ernahrungswiss** 1990 Mar;29(1):2–12 (42 ref.) (Eng. Abstr.) (Ger)
[A study using a food–frequency questionnaire—simultaneous discrimination of dietary patterns of anemic and hyperlipemic women] Ikeda J, et al. **Nippon Eiseigaku Zasshi** 1989 Oct;44(4):847–55 (Eng. Abstr.) (Jpn)
[The effect of the interval from dinner until retiring on the concentration of lithogenic substances during sleep] Iguchi M, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Nov; 80(11):1574–8 (Eng. Abstr.) (Jpn)
[Effect of press stimulation applied to back skin on gastric emptying and serum gastrin response to solid food] Asada T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Dec; 86(12):2705–12 (Eng. Abstr.) (Jpn)
[Effect of calcitonin on gallbladder volume between food intake and on its emptying after meals in humans] Jonderko G, et al. **Pol Arch Med Wewn** 1989 Jan;81(1):7–12 (Eng. Abstr.) (Pol)
[Participation of the olfactory system in the regulation of food intake] Guevara R, et al. **Gac Med Mex** 1989 Nov–Dec;125(11–12):379–83; discussion 384 (Eng. Abstr.) (Spa)
[The exocrine pancreas regulates food intake] Erlanson–Albertsson C. **Lakartidningen** 1990 Jul 11; 87(28–29):2348–50 (39 ref.) (Swe)

PSYCHOLOGY

Food coloring and monosodium glutamate: effects on the cephalic phase of gastric acid secretion and gastrin release in humans. Goldschmiedt M, et al. **Am J Clin Nutr** 1990 May;51(5):794–7
Analyzing the food sciences from a viewpoint of food intake, eating behavior and their relationship. Yaguramaki K. **Ann Physiol Anthropol** 1988 Jan;7(1):61–2
How not to think about immediate dietary and postingestional influences on appetites and satieties [comment] Booth DA. **Appetite** 1990 Jun;14(3):171–9, discussion 180 Comment on: Appetite 1990 Jun;14(3):159–61.
Some suggestions on dealing with palatability—response to Ramirez [comment] Kissileff HR. **Appetite** 1990 Jun; 14(3):162–6; discussion 180 Comment on: Appetite 1990 Jun;14(3):159–61.
Why a palatability construct is needed [comment] Rogers PJ. **Appetite** 1990 Jun;14(3):167–70; discussion 180 Comment on: Appetite 1990 Jun;14(3):159–61.
Food choice in modern society. Ilmonen K. **Bibl Nutr Dieta** 1990;(45):30–51 (54 ref.)
The relationship of eating frequency and caloric density to energy intake among rural Mexican preschool children. Garcia SE, et al. **Eur J Clin Nutr** 1990 May;44(5):381–7
Self–regulation of food intake among rural Mexican preschool children. Garcia SE, et al. **Eur J Clin Nutr** 1990 May;44(5):371–80
Eating in combat: a survey of U.S. Marines. Popper R, et al. **Milit Med** 1989 Dec;154(12):619–23
Cephalic postprandial thermogenesis in human subjects. LeBlanc J, et al. **Physiol Behav** 1989 Sep;46(3):479–82

EATING BEHAVIOR see FEEDING BEHAVIOR

EATING DISORDERS

see related
ANOREXIA NERVOSA
OBESITY
THINNESS

Standards of beauty: Degas v. Kirov [letter; comment] Jackson FI. **Can Med Assoc J** 1989 Dec 15;141(12):1224–5 Comment on: Can Med Assoc J 1989 Sep 15;141(6):513.
Eating disorders. Field HL. **Compr Ther** 1989 Sep;15(9):3–11 (5 ref.)
Current perspectives on the eating disorders: I. History, psychological and biological aspects. Yates A. **J Am Acad Child Adolesc Psychiatry** 1989 Nov; 28(6):813–28 (237 ref.)
Eating disorders in general practice. King MB. **J R Soc Med** 1990 Apr;83(4):229–32 (51 ref.)
The effects of naloxone on body rotation–induced analgesia and anorexia in male mice. Ossenkopp KP, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):317–20
Eating disorders: diagnostic and treatment issues—II. **Psychiatr Med** 1989;7(4):123–332
Eating disorders: diagnostic and treatment issues—I. **Psychiatr Med** 1989;7(3):1–121

BLOOD

Vitamin and trace element status of women with disordered eating. Mira M, et al. **Am J Clin Nutr** 1989 Nov;50(5):940–4
Histidyl proline diketopiperazine (Cyclo [His–Pro]) in eating disorders. Steiner H, et al. **Neuropeptides** 1989 Oct; 14(3):185–9

CHEMICALLY INDUCED

Interleukin–1, anorexia, and dietary fatty acids. Dinarello CA, et al. **Ann N Y Acad Sci** 1990;587:332–8 (11 ref.)
SCH 23390–induced hypophagia is blocked by the selective CCK–A receptor antagonist devazepide, but not by the CCK–B/gastrin receptor antagonist L–365,260. Cooper SJ, et al. **Brain Res Bull** 1990 Apr;24(4):631–3
Mediation of anorexia by human recombinant tumor necrosis factor through a peripheral action in the rat. Bodnar RJ, et al. **Cancer Res** 1989 Nov 15;49(22):6280–4
A noncyclical analog of salmon calcitonin (N alpha–propionyl Di–Ala1,7,des–Leu19 sCT) retains full potency without inducing anorexia in rats. Yates AJ, et al. **Endocrinology** 1990 Jun;126(6):2845–9
Hypophagia after long–term administration of sulpiride in adult female rats: a model of D2 dopamine receptors supersensitivity? Baptista T. **Med Hypotheses** 1989 Sep; 30(1):5–8
Effects of haloperidol on anorexia induced by l–norephedrine and d–amphetamine in adult rats. Wellman PJ. **Pharmacol Biochem Behav** 1990 Feb;35(2):457–60
[Anorexia hydrargyra. A case report from general practice] Dörffer U. **Monatsschr Kinderheilkd** 1989 Aug;137(8):472 (Ger)

CLASSIFICATION

[Physiopathology and classification of eating disorders] Ohara K, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):671–7 (Jpn)

COMPLICATIONS

Osteoporosis in women with eating disorders: comparison of physical parameters, exercise, and menstrual status with SPA and DPA evaluation. Joyce JM, et al. **J Nucl Med** 1990 Mar;31(3):325–31
Feeding difficulties in end–stage renal failure [letter] Belden B, et al. **Pediatr Nephrol** 1990 May;4(3):297–8
Feeding disorders and gastroesophageal reflux in infants with chronic renal failure. Ruley EJ, et al. **Pediatr Nephrol** 1989 Oct;3(4):424–9
Feeding problems and lactic acidosis in a 10–week–old boy [clinical conference] Robinson J, et al. **Pediatr Neurosci** 1989;15(1):28–35
Eating attitudes, behaviors, and disorders in female juvenile delinquents. Myers WC, et al. **Psychosomatics** 1989 Fall; 30(4):428–32
Sorbitol abuse among eating–disordered patients. Ohlrich ES, et al. **Psychosomatics** 1989 Fall;30(4):451–3
Insulin misuse through omission or reduction of dose [letter; comment] Rodin GM, et al. **Psychosomatics** 1989 Fall; 30(4):465–6 Comment on: Psychosomatics 1989 Winter;30(1):19–24.
Self–mutilation and eating disorders. Favazza AR, et al. **Suicide Life Threat Behav** 1989 Winter;19(4):352–61
[Gastric necrosis after a bulimia episode in an anorectic patient (letter)] Jacquot S, et al. **Presse Med** 1989 Nov 25; 18(39):1932 (Fre)
[Kleine–Levin syndrome. The provocation of manic symptoms by an antidepressant and a therapeutic trial of carbamazepine] Wurthmann C, et al. **Dtsch Med Wochenschr** 1989 Oct 6;114(40):1528–31 (Eng. Abstr.) (Ger)
[Acute autonomic and sensory neuropathy associated with galactorrhea–amenorrhea syndrome and intractable anorexia] Inoue Y, et al. **Rinsho Shinkeigaku** 1989 Oct; 29(10):1265–71 (Eng. Abstr.) (Jpn)

DIAGNOSIS

Is there an eating disorder in the obese? Kissileff HR. **Ann N Y Acad Sci** 1989;575:410–9; discussion 424–30 (28 ref.)
Atypical eating disorder masquerading as recurrent acute pancreatitis: the value of multiple pancreatic serological markers. Heigh RI, et al. **J Clin Gastroenterol** 1990 Feb; 12(1):78–80
Eating difficulties in patients with probable dementia of the Alzheimer type. Volicer L, et al. **J Geriatr Psychiatry Neurol** 1989 Oct–Dec;2(4):188–95
The construction and preliminary validation of a scale for measuring eating disorders. Coker S, et al. **J Psychosom Res** 1990;34(2):223–31
Food and drug abuse: the contrasts and comparisons of eating disorders and alcoholism. Beresford TP, et al. **Psychiatr Med** 1989;7(3):37–46
The use of a self–report instrument for eating disorders diagnoses: how different are DSM–III–R vs. DSM–III? Yager J, et al. **Psychiatr Med** 1989;7(3):89–99
Eating disorders: lessons from a cross–cultural study. King MB, et al. **Psychol Med** 1989 Nov;19(4):955–8
[LENTCA: nosographic evaluation software for alimentary disorders] Simon YF, et al. **Ann Med Psychol (Paris)** 1989 Sep;147(7):756–60; discussion 760–1 (Fre)
[Hunger strike in a prison environment] Stroun J. **Rev Med Suisse Romande** 1990 May;110(5):451–6 (Fre)

DRUG THERAPY

Psychopharmacology of eating disorders. Mitchell JE. **Ann N Y Acad Sci** 1989;575:41–8; discussion 49 (64 ref.)
Serotonin and the pharmacology of eating disorders. Samanin R, et al. **Ann N Y Acad Sci** 1989;575:194–207; discussion 207–8 (93 ref.)
Controlled trial of megestrol acetate for the treatment of cancer anorexia and cachexia. Loprinzi CL, et al. **J Natl Cancer Inst** 1990 Jul 4;82(13):1127–32
From the National Institutes of Health. Raub W. **JAMA** 1990 Sep 5;264(9):1086
Recent studies of anorexia and appetite stimulation in the cancer patient. Spaulding M. **Oncology (Williston Park)** 1989 Aug;3(8):17–23 (21 ref.)
Treatment of cancer anorexia with megestrol acetate: impact on quality of life. Tchekmedyian NS, et al. **Oncology (Williston Park)** 1990 May;4(5):185–92; discussion 194

ENZYMOLOGY

[Hyperamylasemia in anorexia and bulimia (letter)] Jacoby GE. **Dtsch Med Wochenschr** 1990 May 4;115(18):718 (Ger)

EPIDEMIOLOGY

Early childhood eating behaviors and adolescent eating disorders. Marchi M, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Jan;29(1):112–7
Assessment of attitudes about weight and dieting among college–aged individuals. Collier SN, et al. **J Am Diet Assoc** 1990 Feb;90(2):276–8
Prevalence of eating disorders in the psychiatric emergency room. Johnson AS, et al. **Psychosomatics** 1990 Summer; 31(3):337–41

ETIOLOGY

Mood– and nutrient–conditioned appetites. Cultural and physiological bases for eating disorders. Booth DA. **Ann N Y Acad Sci** 1989;575:122–35; discussion 157–62 (72 ref.)
The approaches to the study of human disorders in food ingestion and body weight maintenance. McHugh PR, et al. **Ann N Y Acad Sci** 1989;575:1–11; discussion 11–2 (40 ref.)
The anorexia of the elderly. Morley JE, et al. **Ann N Y Acad Sci** 1989;575:50–8; discussion 58–9 (56 ref.)
Disorders of food selection. The compromise of pleasure. Rozin P. **Ann N Y Acad Sci** 1989;575:376–85; discussion 385–6 (39 ref.)
Animal models of human eating disorders. Smith GP. **Ann N Y Acad Sci** 1989;575:63–72; discussion 72–4 (55 ref.)
Submucous cleft palate in the differential diagnosis of feeding difficulties. Moss AL, et al. **Arch Dis Child** 1990 Feb; 65(2):182–4
Screening of 'kargasok tea.' I: Anorexia and obesity. Kwanashie HO, et al. **Biochem Soc Trans** 1989 Dec; 17(6):1132–3
Hyperthyroidism and eating disorders. Fonseca V, et al. **BMJ** 1990 Aug 11;301(6747):322–3
Organic diseases mimicking atypical eating disorders. Wright K, et al. **Clin Pediatr (Phila)** 1990 Jun;29(6):325–8
Anorexia, weight loss, and diarrhea as presenting symptoms of angiokeratoma corporis diffusum (Fabry–Anderson's disease). Nelis GF, et al. **Dig Dis Sci** 1989 Nov; 34(11):1798–800
Optimal dietary prescribing in the nursing home. Opheim C, et al. **Geriatrics** 1990 Jul;45(7):66–71
Hypophagia among hospitalized elderly. Rammohan M, et al. **J Am Diet Assoc** 1989 Dec;89(12):1774–9
Fish oil and interleukin–1—induced anorexia. **Nutr Rev** 1990 May;48(5):221–2 (9 ref.)
Severe complication of enteral feeding therapy of a child with end–stage renal disease (ESRD) [letter] Trachtman H, et al. **Pediatr Nephrol** 1989 Apr;3(2):227
[Feeding problems in infants with bronchopulmonary dysplasia and other chronic respiratory disorders] van Wezel–Meijler G, et al. **Tijdschr Kindergeneeskd** 1990 Apr; 58(2):73–8 (Eng. Abstr.) (Dut)
[Behavioral eating disorders and schizophrenia] Benadon V, et al. **Ann Med Psychol (Paris)** 1989 Sep–Oct;147(5):583–5 (12 ref.) (Fre)
[Behavior analysis of eating disorders] Gerlinghoff M. **Z Ernahrungswiss** 1990 Mar;29(1):13–20 (5 ref.) (Eng. Abstr.) (Ger)

METABOLISM

Serotonin3 receptor antagonists block anorectic responses to amino acid imbalance. Hammer VA, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R627–36
Contribution of elevated protein turnover and anorexia to cachexia in patients with hepatocellular carcinoma. O'Keefe SJ, et al. **Cancer Res** 1990 Feb 15;50(4):1226–30
Plasma and CSF tryptophan in cancer anorexia. Cangiano C, et al. **J Neural Transm Gen Sect** 1990;81(3):225–33

MORTALITY

Mortality in eating disorders. Patton GC. **Psychol Med** 1988 Nov;18(4):947–51

PHYSIOPATHOLOGY

Level of satiety: in vitro energy metabolism in brain during hypophagic and hyperphagic body weight recovery. Kasser TR, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1322–7
Hypothalamic paraventricular nucleus lesions do not prevent anorectic effect of exercise in male rats. Rivest S, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R579–84
Taste responsiveness in eating disorders. Drewnowski A. **Ann N Y Acad Sci** 1989;575:399–408; discussion 408–9 (50 ref.)

Gastric function in eating disorders. Robinson PH. **Ann N Y Acad Sci** 1989;575:456–64; discussion 464–5 (27 ref.)
Sleep architecture in eating disorders [letter] Walsh BT, et al. **Arch Gen Psychiatry** 1990 Sep;47(9):880
Appetite disturbance and the problems of overweight. Blundell JE. **Drugs** 1990;39 Suppl 3:1–19 (102 ref.)
The role of serotonin in eating disorders. Leibowitz SF. **Drugs** 1990;39 Suppl 3:33–48 (116 ref.)
Effects of pulmonary vasodilators on the remodelled pulmonary arterial tree in chronic alveolar hypoxia [editorial] Heath D. **Eur Respir J** 1990 Jan;3(1):3–4
Nigral grafts in neonatal rats protect from aphagia induced by subsequent adult 6-OHDA lesions: the importance of striatal location. Rogers DC, et al. **Exp Brain Res** 1990; 80(1):172–6
Should ovulation be induced in women recovering from an eating disorder or who are compulsive exercisers? Abraham S, et al. **Fertil Steril** 1990 Mar;53(3):566–8
The rumination syndrome in an adult patient. Breumelhof R, et al. **J Clin Gastroenterol** 1990 Apr;12(2):232–4
Verapamil and indomethacin attenuate endotoxin-induced anorexia. Langhans W, et al. **Physiol Behav** 1989 Sep; 46(3):535–9
Neurohypophyseal dysfunction: implications for the pathophysiology of eating disorders. Demitrack MA, et al. **Psychopharmacol Bull** 1989;25(3):439–43 (28 ref.)
Meal-related cholecystokinin secretion in eating and affective disorders. Geracioti TD Jr, et al. **Psychopharmacol Bull** 1989;25(3):444–9 (24 ref.)
[An infant's "forbidden games" (related to six cases of severe merycism)] Brunod R. **Psychiatr Enfant** 1989;32(2):451–94 (Eng. Abstr.) **(Fre)**

PREVENTION & CONTROL

A controlled trial of cyproheptadine in cancer patients with anorexia and/or cachexia. Kardinal CG, et al. **Cancer** 1990 Jun 15;65(12):2657–62

PSYCHOLOGY

Treatment failures: the role of sexual victimization in women's addictive behavior. Root MP. **Am J Orthopsychiatry** 1989 Oct;59(4):542–9
Relation of clinical variables to dissociative phenomena in eating disorders. Demitrack MA, et al. **Am J Psychiatry** 1990 Sep;147(9):1184–8
The psychobiology of human eating disorders: preclinical and clinical perspectives. **Ann N Y Acad Sci** 1989;575:1–626
Who knows best? Family interaction and eating disorders. Waller G, et al. **Br J Psychiatry** 1990 Apr;156:546–50
Carbohydrate craving. Relationship between carbohydrate intake and disorders of mood. Wurtman JJ. **Drugs** 1990;39 Suppl 3:49–52 (13 ref.)
Variables associated with frequency of rumination in a boy with profound mental retardation. Humphrey FJ 2d, et al. **J Autism Dev Disord** 1989 Sep;19(3):435–47
The use of conditioned cues associated with air hunger as reinforcers: a case report. Wright L. **J Behav Med** 1990 Feb;13(1):103–9
Changes in eating attitudes during the first year of treatment for diabetes. Steel JM, et al. **J Psychosom Res** 1990; 34(3):313–8
The sexual abuse, eating disorder and addiction (SEA) triad: syndrome or coincidence? Minovitz O, et al. **Med Law** 1989;8(1):59–61
Eating and mood disorders in young children. DiNicola VF, et al. **Psychiatr Clin North Am** 1989 Dec;12(4):873–93 (61 ref.)
Eating disorders in college students. Provost JA. **Psychiatr Med** 1989;7(3):47–58
[Eating disorders of psychologic origin (editorial)] Perpiñá C. **Med Clin (Barc)** 1989 Oct 14;93(11):418–20 **(Spa)**

REHABILITATION

Occupational therapy and eating dysfunction (position paper). **Am J Occup Ther** 1989 Dec;43(12):805

THERAPY

Inpatient care of the substance-abusing patient with a concomitant eating disorder. Marcus RN, et al. **Hosp Community Psychiatry** 1990 Jan;41(1):59–63
Current perspectives on the eating disorders: II. Treatment, outcome, and research directions. Yates A. **J Am Acad Child Adolesc Psychiatry** 1990 Jan;29(1):1–9 (99 ref.)
Help seeking and satisfaction with care in 641 women with eating disorders. I. Patterns of utilization, attributed change, and perceived efficacy of treatment. Yager J, et al. **J Nerv Ment Dis** 1989 Oct;177(10):632–7
Treatment of the eating disorders. Szmukler GI. **Med J Aust** 1989 Nov 20;151(10):583–8 (62 ref.)
Behavioral assessment and treatment of pediatric feeding disorders in developmental disabilities. Luiselli JK. **Prog Behav Modif** 1989;24:91–131 (86 ref.)
The treatment of eating disorders [editorial] Mitchell JE. **Psychosomatics** 1990 Winter;31(1):1–3
[Psychotherapy of eating disorders] Tsutsumi K. **Seishin Shinkeigaku Zasshi** 1989;91(9):704–14, discussion 715–9 **(Jpn)**

VETERINARY

Pre-embarkation risk factors for sheep deaths during export by sea from Western Australia [published erratum appears in Aust Vet J 1990 Jan;67(1):32] Norris RT, et al. **Aust Vet J** 1989 Oct;66(10):309–14
Management of inappetant sheep during export by sea. Norris RT, et al. **Aust Vet J** 1990 Jul;67(7):244–7
Cause, occurrence, and clinical signs of mastitis and anorexia in cows in a Wisconsin study. Jones GF, et al. **J Am Vet Med Assoc** 1989 Oct 15;195(8):1108–13
Studies on experimental Jembrana disease in Bali cattle. II. Clinical signs and haematological changes. Soesanto M, et al. **J Comp Pathol** 1990 Jul;103(1):61–71
Serum levels of gastrin, insulin and glucagon as possible factors of anorexia in pigs infected once with Ascaris suum. Yang S, et al. **Vet Parasitol** 1990 Jul;36(3–4):211–9
Tumor necrosis factor-like cytotoxicity and anorexia in Ascaris suum infected pigs. Yang S, et al. **Vet Parasitol** 1990 May;36(1–2):37–44
[Clinical case. A mixed breed female dog about 6 months old] Kraft W. **Tierarztl Prax** 1990 Jun;18(3):235, 309–10 **(Ger)**

EATON AGENT see **MYCOPLASMA**

EATON-LAMBERT SYNDROME see **LAMBERT-EATON MYASTHENIC SYNDROME**

EBOLA VIRUS see under **RHABDOVIRIDAE**

EBSTEIN'S ANOMALY

[Van der Hoeve's syndrome with Ebstein's anomaly, and prolapse of the mitral and aortic valves: a case report] Kawano T, et al. **J Cardiol** 1988 Dec;18(4):1173–82 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

A case-control study on the association between first trimester exposure to lithium and Ebstein's anomaly. Zalzstein E, et al. **Am J Cardiol** 1990 Mar 15;65(11):817–8

COMPLICATIONS

Surgical correction of tetralogy of Fallot in the presence of Ebstein's anomaly of the tricuspid valve. Chan KC, et al. **Int J Cardiol** 1989 Nov;25(2):242–3
Ebstein's anomaly and partial atrioventricular canal associated with double orifice mitral valve. Yamaguchi M, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):790–2
Pacing in a patient with Ebstein's anomaly. Andersen C, et al. **PACE** 1989 Oct;12(10):1586–8
[Angiographic findings in arrhythmogenic dysplasia of the right ventricle] Conte MR, et al. **G Ital Cardiol** 1989 Jul; 19(7):580–4 (Eng. Abstr.) **(Ita)**
[Right ventricular dysplasia associated with Ebstein type malformation of the tricuspid valve. A case report] Ebaid M, et al. **Arq Bras Cardiol** 1989 Oct;53(4):217–20 (Eng. Abstr.) **(Por)**
[Ebstein's anomaly associated with ventricular septal defect. A case report] Haddad VL, et al. **Arq Bras Cardiol** 1989 Aug;53(2):121–3 (Eng. Abstr.) **(Por)**
[Ebstein's anomaly of the mitral valve. A very unusual congenital malformation of the heart. A case report] Jacob JL, et al. **Arq Bras Cardiol** 1989 Nov;53(5):283–5 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Atrioventricular septal defect and Ebstein's malformation. Choe KO, et al. **Am J Cardiol** 1990 Apr 1;65(13):939–41
Observations on possible atrial contribution to ventricular dynamics as recorded by the direct body high-frequency ("acceleration") BCG. Winer NJ. **Bibl Cardiol** 1967; (19):116–25
Electrode catheters and the diagnosis of Ebstein's anomaly of the tricuspid valve. Watson H. **Br Heart J** 1966 Mar; 28(2):161–71 (53 ref.)
Ebstein's anomaly: natural and unnatural history. Tuzcu EM, et al. **Cleve Clin J Med** 1989 Sep;56(6):614–8
Ebstein's anomaly: echocardiographic and clinical features in the fetus and neonate. Roberson DA, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1300–7
Potential role of MR imaging in the diagnostic management of Ebstein anomaly in a newborn. Kastler B, et al. **J Comput Assist Tomogr** 1990 Sep–Oct;14(5):825–7
Congenitally unguarded tricuspid orifice: its differentiation from Ebstein's malformation in association with pulmonary atresia and intact ventricular septum. Anderson RH, et al. **Pediatr Cardiol** 1990 Apr;11(2):86–90
[Ebstein's anomaly observed in an adult patient] Kiuchukov I. **Vutr Boles** 1989;28(6):76–9 (Eng. Abstr.) **(Bul)**
[Ebstein anomaly as a rare cause of a non-immunological fetal hydrops: prenatal diagnosis using Doppler echocardiography] Chaoui R, et al. **Klin Padiatr** 1990 May–Jun;202(3):173–5 (Eng. Abstr.) **(Ger)**

PATHOLOGY

[Location of the bundle of Kent in patients with Ebstein's anomaly of the tricuspid valve] Vitek B, et al. **Cas Lek Cesk** 1990 Jan 19;129(3):71–5 (Eng. Abstr.) **(Cze)**

SURGERY

Management of Ebstein's anomaly [published erratum appears in Cleve Clin J Med 1989 Nov–Dec;56(8):848] Mair DD. **Cleve Clin J Med** 1989 Sep;56(6):626–7
Surgical treatment of Ebstein's anomaly: valve replacement and reconstruction. Tasdemir O, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):740–3
[Severance of the accessory bundle of Kent in a 13-year-old boy with Ebstein's anomaly of the tricuspid valve] Vitek B, et al. **Vnitr Lek** 1990 Apr;36(4):391–6 (Eng. Abstr.) **(Cze)**
[Surgical repair and late problem for Ebstein's anomaly—surgical cases with severe tricuspid stenosis or regurgitation] Hata T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct;37(10):2082–8 (Eng. Abstr.) **(Jpn)**
[Simultaneous surgical correction of Ebstein's anomaly and ectopic supraventricular tachycardia] Bokeriia LA, et al. **Grud Serdechnososudistaia Khir** 1990;(2):70–2 **(Rus)**

EBV see **EPSTEIN-BARR VIRUS**

EC CELLS see **TUMOR STEM CELLS**

EC-IC ARTERIAL BYPASS see **CEREBRAL REVASCULARIZATION**

ECCENTRO-OSTEOCHONDRODYSPLASIA see **MUCOPOLYSACCHARIDOSIS 4**

ECCHYMOSIS

see related **PURPURA**

BLOOD

[Disorders of hemostasis and fibrinolysis in hemorrhagic erysipelas] Cherkasov VIa, et al. **Sov Med** 1989;(10):105–8 **(Rus)**

CHEMICALLY INDUCED

Valproate induced bleeding. Raghuveer TS, et al. **Indian Pediatr** 1989 Jun;26(6):596–7
Clinically significant hemorrhage due to warfarin-carbamazepine interaction. Denbow CE, et al. **South Med J** 1990 Aug;83(8):981
[Livedoid paralytic syndrome secondary to intramuscular injection of benzathine-penicillin] Barsaoui S, et al. **Tunis Med** 1990 Feb;68(2):141–5 (12 ref.) (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Migraine associated with periorbital ecchymosis. DeBroff BM, et al. **Headache** 1990 Apr;30(5):260–3

DRUG THERAPY

[Analgesic anti-inflammatory effects of moschus bone-setting liquor in local traumatic ecchymosis] Ding M, et al. **Chung Kuo Chung Yao Tsa Chih** 1990 Jan;15(1):49–51, 65 (Eng. Abstr.) **(Chi)**

ETIOLOGY

Recurrent temporomandibular joint subluxation and facial ecchymosis leading to diagnosis of Ehlers-Danlos syndrome: report of surgical management and review of the literature. Sacks H, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):641–7 (39 ref.)
[A case of small cell carcinoma of the lung with marked hemorrhagic syndrome] Simochkina ZA, et al. **Klin Med (Mosk)** 1989 Nov;67(11):125–6 **(Rus)**

PATHOLOGY

Clues: bruised, torn skin. Cuzzell JZ. **Am J Nurs** 1990 Mar; 90(3):16, 18
Spontaneous adult scurvy in a developed country: new insight in an ancient disease [letter] Grob JJ, et al. **Arch Dermatol** 1990 Feb;126(2):249–51
[Gardner-Diamond syndrome] Frantzen E, et al. **Hautarzt** 1990 Mar;41(3):168–70 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Bruising after venepuncture [letter] Bhatia RS. **J Assoc Physicians India** 1990 Apr;38(4):310
Steroids in rhinoplasty. Griffies WS, et al. **Laryngoscope** 1989 Nov;99(11):1161–4

ECCRINE GLANDS see under **SWEAT GLANDS**

ECDYSONE

13C-NMR assignments of some insect molting hormones. Lee SS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Oct;5(10):564–8

ANALOGS & DERIVATIVES

Ecdysteroids increase the yield of recombinant protein produced in baculovirus insect cell expression system. Sárvári M, et al. **Biochem Biophys Res Commun** 1990 Mar

30;167(3):1154–61

Prothoracic gland synthesis of 3-dehydroecdysone and its hemolymph 3 beta-reductase mediated conversion to ecdysone in representative insects. Kiriishi S, et al. **Experientia** 1990 Jul 15;46(7):716–21

Evidence that Y-organs of the crab Cancer antennarius secrete 3-dehydroecdysone. Spaziani E, et al. **Mol Cell Endocrinol** 1989 Sep;66(1):17–25

BIOSYNTHESIS

Prothoracic gland synthesis of 3-dehydroecdysone and its hemolymph 3 beta-reductase mediated conversion to ecdysone in representative insects. Kiriishi S, et al. **Experientia** 1990 Jul 15;46(7):716–21

GENETICS

Imaginal disc-autonomous expression of a defect in sensory bristle patterning caused by the lethal(3)ecdysoneless1 (1(3)ecd1) mutation of Drosophila melanogaster. Sliter TJ. **Development** 1989 Jun;106(2):347–54

Mutation mapping of the 2B5 ecdysone locus in Drosophila melanogaster reveals a long-distance controlling element. Sampedro J, et al. **Mol Cell Biol** 1989 Aug;9(8):3588–91

PHARMACOLOGY

Molecular analysis of alpha ecdysone induced 16S complexes in Drosophila Schneider's S3 cells. Haass C, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):314–9

Ecdysteroids increase the yield of recombinant protein produced in baculovirus insect cell expression system. Sárvári M, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1154–61

Structure of the ecdysone-inducible P1 gene of Drosophila melanogaster. Maschat F, et al. **J Mol Biol** 1990 Jul 20; 214(2):359–72

Transcription at the ecdysone-inducible locus 2B5 in Drosophila. Galcerán J, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):539–45

PHYSIOLOGY

Puffs, genes, and hormones revisited. Ashburner M. **Cell** 1990 Apr 6;61(1):1–3 (11 ref.)

The Drosophila 74EF early puff contains E74, a complex ecdysone-inducible gene that encodes two ets-related proteins. Burtis KC, et al. **Cell** 1990 Apr 6;61(1):85–99

Drosophila glue protein gene expression. A proposal for its ecdysone-dependent developmental control. Kress H, et al. **Naturwissenschaften** 1990 Jul;77(7):317–24 (41 ref.)

Ecdysone response elements of a Drosophila gene. Cherbas P, et al. **Prog Clin Biol Res** 1990;342:112–5

In search of functions for ecdysone in the female insect. Hagedorn HH. **Prog Clin Biol Res** 1990;342:365–71 (18 ref.)

SECRETION

Short-loop negative and positive feedback on ecdysone secretion by prothoracic gland in the tobacco hornworm, Manduca sexta. Sakurai S, et al. **Gen Comp Endocrinol** 1989 Aug;75(2):204–16

ECDYSTERONE

ANALOGS & DERIVATIVES

Affinity labelling of a partially purified ecdysteroid receptor with a bromoacetylated 20-OH-ecdysone derivative. Strangmann-Diekmann M, et al. **Eur J Biochem** 1990 Apr 20;189(1):137–43

Autoradiographic identification of ecdysteroid-binding cells in the nervous system of the moth Manduca sexta. Fahrbach SE, et al. **J Neurobiol** 1989 Dec;20(8):681–702

BIOSYNTHESIS

Cytochrome P-450-catalyzed formation of 20-hydroxy-ecdysone in larval housefly mitochondria. Srivatsan J, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1372–7

BLOOD

Ecdysteroid-like compounds in the serum and urine of African patients infected with Loa loa and Mansonella perstans microfilariae. Lansoud-Soukate J, et al. **Trans R Soc Trop Med Hyg** 1990 Mar-Apr;84(2):269–71

GENETICS

[Puffing in the regions of the esterase and ecdysterone genes in Drosophila lummei strains differing in beta-esterase expression] Poliakova EV, et al. **Ontogenez** 1990 Jan-Feb; 21(1):41–6 (Eng. Abstr.) (Rus)

ISOLATION & PURIFICATION

Chonemorphine, stigmasterol, and ecdysterone: steroids isolated through bioassay-directed plant screening programs. Shah VC, et al. **Steroids** 1989 Mar-May; 53(3–5):559–65

PHARMACOLOGY

Ecdysteroids increase the yield of recombinant protein produced in baculovirus insect cell expression system. Sárvári M, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1154–61

Regulation of dopa decarboxylase gene expression in the larval epidermis of the tobacco hornworm by 20-hydroxyecdysone and juvenile hormone. Hiruma K, et al. **Dev Biol** 1990 Mar;138(1):214–24

20-OH-ecdysone regulates 60 C beta tubulin gene expression in Kc cells and during Drosophila development. Sobrier ML, et al. **Exp Cell Res** 1989 Sep;184(1):241–9

Regulatory elements in the first intron contribute to transcriptional regulation of the beta 3 tubulin gene by 20-hydroxyecdysone in Drosophila Kc cells. Bruhat A, et al. **Nucleic Acids Res** 1990 May 25;18(10):2861–7

[New possibilities in searching for immunomodulators among compounds with a steroid structure] Kuz'mitskiĭ BB, et al. **Farmakol Toksikol** 1990 May-Jun;53(3):20–2 (Eng. Abstr.) (Rus)

[The effect of nerobol and ecdysterone on insulin-dependent processes linked normally and in insulin resistance] Kosovskiĭ MI, et al. **Probl Endokrinol (Mosk)** 1989 Sep-Oct;35(5):77–81 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Cuticle secretion in Drosophila wing imaginal discs in vitro: parameters of exposure to 20-hydroxy ecdysone. Johnson SA, et al. **Int J Dev Biol** 1990 Jun;34(2):299–307

SECRETION

Juvenile hormone inhibits ecdysone secretion and responsiveness to prothoracicotropic hormone in prothoracic glands of Bombyx mori. Sakurai S, et al. **Gen Comp Endocrinol** 1989 Aug;75(2):222–30

ECG see ELECTROCARDIOGRAPHY

ECHIDNA see under MONOTREMATA

ECHINOCOCCOSIS

Hydatid cyst presenting as a breast lump. Radhi JM, et al. **Can J Surg** 1990 Feb;33(1):29–30

Cardiac hydatid cyst in a child. Ben-Musa AA, et al. **Clin Pediatr (Phila)** 1990 Jul;29(7):409–11

Echinococcosis (hydatid disease). Bryan RT, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1214–7

Hydatid disease: the threat within Papua New Guinea. Alto WA, et al. **P N G Med J** 1989 Jun;32(2):139–42 (8 ref.)

Intraosseous echinococcosis: a rare manifestation of echinococcal disease. Fyfe B, et al. **South Med J** 1990 Jan; 83(1):66–8 (10 ref.)

[Hydatid cysts in children. Diagnostic and therapeutic aspects. Apropos of 1195 cases] Chaouachi B, et al. **Ann Pediatr (Paris)** 1989 Sep;36(7):441–4, 447–9 (Eng. Abstr.) (Fre)

[Hydatid cyst of the pericardium and diaphragm. Apropos of a case] Hafid F, et al. **Pediatrie** 1989;44(4):331–4 (11 ref.) (Eng. Abstr.) (Fre)

[Hydatid cyst of the spleen: apropos of 42 cases] Kehila M, et al. **Tunis Med** 1989 Oct;67(10):587–90 (5 ref.) (Eng. Abstr.) (Fre)

[Biliary peritonitis caused hy hydatid disease] Melita P, et al. **Minerva Chir** 1990 Apr 30;45(8):581–4 (9 ref.) (Eng. Abstr.) (Ita)

[Complicated echinococcosis in a rare location—case report] Custović K, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:624–5 (Scr)

[Analysis of echinococcosis of the liver and spleen in Južni Banat 1968–1988] Ivica A, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:544–5 (Scr)

[Echinococcosis] Milačić O. **Acta Chir Iugosl** 1989;36 Suppl 2:513–25 (Eng. Abstr.) (Scr)

[Echinococcosis of the spinal column] Vujović R, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:621–4 (Scr)

[Spinal echinococcosis] Konjhodžić F. **Med Arh** 1984; 38(3):101–3 (Eng. Abstr.) (Scr)

[Echinococcosis of the greater omentum] Mijatović Z, et al. **Med Arh** 1985;39(1):27–8 (Eng. Abstr.) (Scr)

COMPLICATIONS

Multiple emboli in hydatid disease. Shields DA. **BMJ** 1990 Jul 28;301(6745):213–4

Hydatid cyst of the orbit with papilloedema. Shukla LM, et al. **Indian J Ophthalmol** 1989 Apr-Jun;37(2):99–100

Cerebral hydatid cyst. Taneja LN, et al. **Indian Pediatr** 1989 Oct;26(10):1040–2

Vertebral hydatidosis and paraplegia. Karray S, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):84–8

Giant hydatid cyst of gastro-splenic ligament simulating massive ascites [letter] Singh S, et al. **J Clin Gastroenterol** 1990 Aug;12(4):481–2

Hydatid cyst obstructing labour: a case report. Jasper P, et al. **J Trop Med Hyg** 1989 Dec;92(6):393–5

[Multiple pulmonary hydatidosis associated with intracardiac cyst. Apropos of a case] M'Raihi ML, et al. **Rev Pneumol Clin** 1989;45(2):78–80 (Eng. Abstr.) (Fre)

[Ischemic infarction in a patient with echinococcosis of the heart and brain] Borisenko VV, et al. **Klin Med (Mosk)** 1990 Apr;68(4):122–4 (Rus)

[Echinococcosis of the breast and liver] Prokopenko OP. **Vestn Rentgenol Radiol** 1989 Jul-Aug;(4):88–9 (Rus)

[Complications of echinococcal cysts located in the pelvic retroperitoneal space] Kapitanović M. **Acta Chir Iugosl** 1989;36 Suppl 2:626–9 (Scr)

[Ileus caused by echinococcosis of the peritoneal cavity] Magdis E, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:633–4 (Scr)

[Complications of hydatid disease] Pavličić M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:589–92 (Eng. Abstr.) (Scr)

[Rare complications in primary echinococcosis] Sehović S, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:638–9 (Eng. Abstr.) (Scr)

[Multiple hydatid embolism: acute ischemia of the right lower limb. Apropos of a case] Ibáñez Esquembre V, et al. **Angiologia** 1990 May-Jun;42(3):89–94 (Eng. Abstr.) (Spa)

[Gigantic hydatidoperitoneum (letter)] López Morante A, et al. **Rev Esp Enferm Dig** 1990 May;77(5):387–8 (Spa)

DIAGNOSIS

Magnetic resonance imaging of thoracic hydatid disease. Correlation with clinical findings, radiography, ultrasonography, CT and pathology. von Sinner WN, et al. **Acta Radiol** 1990 Jan;31(1):59–62

Hydatid disease of the spleen: imaging findings in nine patients. Franquet T, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):525–8

Field evaluation of an enzyme immunoassay for detection of asymptomatic patients in a hydatid control program. Coltorti E, et al. **Am J Trop Med Hyg** 1988 May; 38(3):603–7

An enzyme-linked immunosorbent assay using an arc 5 antigen for the diagnosis of cystic hydatid disease. Hira PR, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):157–62

Diagnosis of human hydatid disease in surgically-confirmed cases by the use of the indirect haemagglutination test based on a thermo-stable lipoprotein and on unfractionated hydatid cyst fluid. Njeruh FM, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):299–303

Hydatid disease of the female genital viscera—a report of 3 cases. Varty PP, et al. **Aust N Z J Obstet Gynaecol** 1990 May;30(2):181–3

Hydatidosis diagnosis by double diffusion in agar with arc 5 detection. Mercado R, et al. **Bull Pan Am Health Organ** 1989;23(3):295–8

Mediastinal hydatid disease: report of three cases. von Sinner WN, et al. **Can Assoc Radiol J** 1990 Apr;41(2):79–82

Hydatid disease in Zimbabwe: a case report. Bordon LM, et al. **Cent Afr J Med** 1989 Nov;35(11):531–4

Usefulness of indirect haemagglutination (IHA) and enzyme-linked immunosorbent assay (ELISA) in the diagnosis of human hydatidosis. Njeruh FM, et al. **East Afr Med J** 1989 May;66(5):310–4

Ultrasound, CT and MRI of ruptured and disseminated hydatid cysts. von Sinner WN. **Eur J Radiol** 1990 Jul-Aug; 11(1):31–7

Evaluation of combined use of indirect haemagglutination test and Casoni's skin test in diagnosis of hydatid disease. Parija SC, et al. **Indian J Pathol Microbiol** 1987 Apr; 30(2):117–21

Hydatid disease of the thyroid gland—(a case report). Arunabha, et al. **J Postgrad Med** 1989 Oct;35(4):230–1

Primary echinococcal cyst of the broad ligament (a case report). Kriplani A, et al. **J Postgrad Med** 1989 Jan; 35(1):57–8

Hydatid disease: MR imaging study. Marani SA, et al. **Radiology** 1990 Jun;175(3):701–6

[Serological diagnosis of hydatidosis: application of a simple technic for mass screening] Hamrioui B, et al. **Arch Inst Pasteur Alger** 1986;55:195–200 (Eng. Abstr.) (Fre)

[Imaging of hydatid cyst of the kidney. Reflections apropos of 35 cases] Hammoudi F, et al. **J Radiol** 1989 Oct; 70(10):549–55 (Eng. Abstr.) (Fre)

[Retrovesical hydatid cyst (or of Douglas' pouch). Apropos of 3 cases] Mosbah A, et al. **J Urol (Paris)** 1989;95(8):465–9 (Eng. Abstr.) (Fre)

[Hydatid cyst of the thymus. Apropos of a indigenous case] Rohart P, et al. **Rev Pneumol Clin** 1989;45(6):277–9 (Eng. Abstr.) (Fre)

[Hydatid cyst of the heart. Diagnostic characteristics and course] Boujnan MR, et al. **Tunis Med** 1990 Mar; 68(3):221–3 (Eng. Abstr.) (Fre)

[A rare manifestation of Echinococcus cysticus in CT and magnetic resonance tomography] Wrazidlo W, et al. **Digitale Bilddiagn** 1989 Sep;9(3):102–4 (Eng. Abstr.) (Ger)

[Immunologic diagnosis of human hydatidosis] Sorice F, et al. **Ann Ital Med Int** 1986 Dec;1(4):281–90 (Eng. Abstr.) (Ita)

[A rare case of echinococcal cyst located in the ovary] Rocco V. **Minerva Ginecol** 1990 Jun;42(6):287–8 (Eng. Abstr.) (Ita)

[Serodiagnosis of echinococcus infection] Ohbayashi M. **Nippon Rinsho** 1990 Feb;48 Suppl:378–80 (Jpn)

[Echocardiographic diagnosis of a hydatid cyst localized at the intraventricular septum] de Almeida CA, et al. **Rev Port Cardiol** 1989 Dec;8(12):859–61 (Eng. Abstr.) (Por)

[Problems in the diagnosis of rupture in echinococcosis of the spleen due to trauma] Radnić D, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:631–3 (Eng. Abstr.) (Scr)

[Adrenal gland hydatidosis] Garrido Rivas C, et al. **Arch Esp Urol** 1990 Apr;43(3):291–3 (Eng. Abstr.) **(Spa)**
[Kidney hydatidosis] Zabala Egurrola JA, et al. **Arch Esp Urol** 1990 Apr;43(3):231–4 (Eng. Abstr.) **(Spa)**
[Human hydatidosis: field echography for the determination of groups at high risk in the evaluation of a control program] Larrieu E, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jul–Aug;31(4):267–70 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Echinococcus multilocularis: ultrastructural effect of in vivo albendazole and praziquantel therapy, singly and in combination. Richards KS, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):479–84
Albendazole is effective against established Echinococcus granulosus in gerbils: comparison of serum concentrations achieved by gavage and feed administration. Taylor DH, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):485–8
Albendazole treatment of recurrent hydatid disease: serial evaluation with ultrasound. Cossetto D, et al. **Aust N Z J Surg** 1989 Dec;59(12):933–6
Evaluation of response to chemotherapy of human cystic echinococcosis. Todorov T, et al. **Br J Radiol** 1990 Jul; 63(751):523–31
Combination chemotherapy is more effective in postspillage prophylaxis for hydatid disease than either albendazole or praziquantel alone. Taylor DH, et al. **Br J Surg** 1989 Sep; 76(9):954
Multicentre clinical trials of benzimidazole–carbamates in human cystic echinococcosis (phase 2). Davis A, et al. **Bull World Health Organ** 1989;67(5):503–8
Comparison of albendazole, mebendazole and praziquantel chemotherapy of Echinococcus multilocularis in a gerbil model. Taylor DH, et al. **Gut** 1989 Oct;30(10):1401–5
Efficacy of mitomycin C against alveolar Echinococcus. Novak M. **Int J Parasitol** 1990 Feb;20(1):119–20
Treatment of Echinococcus granulosus hydatid disease with mebendazole. Teggi A, et al. **J Chemother** 1989 Oct; 1(5):310–7
Echinococcus granulosus: development of resistance to albendazole in an animal model. Morris DL, et al. **J Helminthol** 1990 Jun;64(2):171–4
Rapid recovery of Echinococcus granulosus following 'successful' albendazole therapy in a gerbil model. Taylor DH, et al. **J Helminthol** 1989 Dec;63(4):349–52
Albendazole and echinococcal disease [letter] Seville P. **N Z Med J** 1989 Oct 25;102(878):565
Chemotherapy of experimental Echinococcus multilocularis in jirds. Vanparijs O. **Parasitol Res** 1990;76(3):238–40
Chemotherapy of Echinococcus infection in man with albendazole. Horton RJ. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):97–102
Albendazole treatment of hydatid disease—follow-up at 5 years. Morris DL. **Trop Doct** 1989 Oct;19(4):179–80
[Effect of d-hydrastine on the ultrastructure of experimental Echinococcus granulosus cyst in mice] Ye YC, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Mar;10(2):185–7 (Eng. Abstr.) **(Chi)**
[Treatment of hydatidosis with albendazol] Magnussen P, et al. **Ugeskr Laeger** 1989 Oct 23;151(43):2791–4 (Eng. Abstr.) **(Dan)**
[Praziquantel in human hydatidosis. Evaluation by preoperative treatment] Piens MA, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):503–12 (Eng. Abstr.) **(Fre)**
[Experimental chemotherapy of alveolar hydatid disease. 12. The efficacy of drug forms of mebendazole and nocodazole with high bioavailability] Dzhabarova VI, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):43–6 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Observations on human echinococcosis (hydatidosis) and evaluation of transmission factors in the Maasai of northern Tanzania. Macpherson CN, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):489–97
Epidemiology of echinococcosis/hydatidosis in Anambra State, Nigeria. Onah DN, et al. **Ann Trop Med Parasitol** 1989 Aug;83(4):387–93
Survey of hospital admissions for hydatidosis in New South Wales and the Australian Capital Territory, 1982 to 1987. Schreuder S. **Aust Vet J** 1990 Apr;67(4):149–51
Cystic hydatid disease: aspects of the incidence in man in Kuwait, Arabian Gulf. Shweiki HM, et al. **Eur J Epidemiol** 1990 Mar;6(1):15–9
Echinococcosis in Austria. Auer H, et al. **Int J Med Microbiol** 1990 Apr;272(4):498–508
Hydatid disease at Jinnah Postgraduate Medical Centre Karachi. Jamal Q, et al. **JPMA** 1989 Dec;39(12):320–1
Echinococcosis in Iraq: prevalence of Echinococcus granulosus in stray dogs in Arbil Province. Molan AL, et al. **Jpn J Med Sci Biol** 1989 Aug;42(4):137–41
Pastoralists and hydatid disease: an ultrasound scanning prevalence survey in east Africa. Macpherson CN, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):243–7
Cystic echinococcosis in the Xinjiang/Uygur Autonomous Region, People's Republic of China. I. Demographic and epidemiologic data. Chi P, et al. **Trop Med Parasitol** 1990 Jun;41(2):157–62
[Echinococcosis in the Nenets Autonomous Okrug] Ageeva NG. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):65–8 (Eng. Abstr.) **(Rus)**
[The assessment of the epidemiologic situation of echinococcosis in the Nenets Autonomous Okrug based on data from a dynamic serologic examination of the population] Ageeva NG. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):72–5 (Eng. Abstr.) **(Rus)**
[Echinococcosis in the Ukrainian SSR] Shablovskaia EA, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):49–51 (Eng. Abstr.) **(Rus)**
[Echinococcosis in Vojvodina: morbidity and epidemiologic epizootiologic status] Malenković M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:537–9 **(Scr)**
[Occurrence of echinococcosis in Yugoslavia] Petrović M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:532–6 **(Scr)**

ETIOLOGY

[A white tumor: a fatal case of multiple vertebral hydatidosis] De Simone M, et al. **Riv Eur Sci Med Farmacol** 1988 Dec; 10(6):487–91 (Eng. Abstr.) **(Ita)**

IMMUNOLOGY

MHC class II expression by human glioma cells after in vitro incubation with soluble antigens. Cusimano G, et al. **Acta Neurol Scand** 1990 Mar;81(3):215–22
Hepatitis C virus antibodies in parasitic infections [letter] Aceti A, et al. **Ann Intern Med** 1990 Oct 1;113(7):560
The amino acid and fatty acid composition of the thermostable lipoprotein ("Antigen 880") of hydatid cyst fluid (HCF). Njeruh FM, et al. **East Afr Med J** 1989 Mar; 66(3):219–30
Application of enzyme-linked immunosorbent assay (ELISA) based on two E. granulosus antigens in the diagnosis of human hydatidosis. Njeruh FM, et al. **East Afr Med J** 1989 Nov;66(11):738–42
Purification and partial characterization of a thermo-stable lipoprotein ("antigen 880") of hydatid cyst fluid (HCF). Njeruh FM, et al. **East Afr Med J** 1989 Aug;66(8):507–15
Discordance between red cell and saliva Lewis phenotypes in patients with hydatid cysts. Makni S, et al. **Exp Clin Immmunogenet** 1987;4(3):136–43
Evaluation of human cellular immune function in echinococcosis. Wattal C. **Indian J Med Res** 1990 May; 91:214–7
Basophil releasability in human hydatidosis. Aceti A, et al. **Int Arch Allergy Appl Immunol** 1990;91(1):111–2
Enzyme-linked immunosorbent assay for Shiga toxin and Shiga-like toxin II using P1 glycoprotein from hydatid cysts. Acheson DW, et al. **J Infect Dis** 1990 Jan; 161(1):134–7
Phlogistic and chemotactic activities of alveolar hydatid cyst antigen. Alkarmi T, et al. **J Parasitol** 1989 Oct;75(5):711–9
Subunit composition and specificity of the major cyst fluid antigens of Echinococcus granulosus. Lightowlers MW, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):171–82
Isolation and partial characterization of species-specific and cross-reactive antigens of Echinococcus granulosus cyst fluid. al-Yaman FM, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):101–7
Regulation of macrophage-mediated larvicidal activity in Echinococcus granulosus and Mesocestoides corti (Cestoda) infection in mice. Jenkins P, et al. **Parasitology** 1990 Apr;100 Pt 2:309–15
[Immunological humoral response in mice experimentally infected with Echinococcus granulosus, preliminary result of kinetic observation] Xue HC, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1989;7(3):170–3 (Eng. Abstr.) **(Chi)**
[Comparison of serum immunoglobulin levels in patients with alveolar and cystic echinococcosis] Zhang J, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):38–40 (Eng. Abstr.) **(Chi)**
[Preparation and identification of monoclonal antibodies against Echinococcus granulosus hydatid cyst fluid antigen] Yang QL, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):373–6 (Eng. Abstr.) **(Chi)**
[Interleukin-1 production in patients with unilocular echinococcosis] Martsiniuk AIu, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):16–8 (Eng. Abstr.) **(Rus)**

METABOLISM

Albendazole kinetics in patients with echinococcosis: delayed absorption and impaired elimination in cholestasis. Cotting J, et al. **Eur J Clin Pharmacol** 1990;38(6):605–8
[Analysis of amino acids in hydatid fluid by HPLC] Boudah F, et al. **Arch Inst Pasteur Alger** 1988;56:109–16 (Eng. Abstr.) **(Fre)**

PARASITOLOGY

Effect of gamma irradiation on the rate of cyst development of E. granulosus larvae in Swiss albino mice. Charmy RA, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):297–306
Survival, strobilation and sexual maturation of Echinococcus multilocularis in the small intestine of golden hamsters. Kamiya M, et al. **Parasitology** 1990 Feb;100 Pt 1:125–30
[The elk—the intermediate host of Echinococcus granulosus in Yakutia] Isakov SI, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):58 (Eng. Abstr.) **(Rus)**
[Growth of a cerebral hydatid cyst evaluated by CT study] Arboix A, et al. **Neurologia** 1988 Jan–Feb;3(1):31–4 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Echinococcosis of bone: clinico-laboratory findings and differential diagnostic problems. Markakis P, et al. **Arch Anat Cytol Pathol** 1990;38(3):92–4
Hydatid cyst: primary diagnosis by fine-needle aspiration biopsy. Ascoli V, et al. **Diagn Cytopathol** 1990;6(1):44–8
Hydatid cyst of kidney presenting as hydatiduria. Saxena S, et al. **J Assoc Physicians India** 1990 May;38(5):359–6
Thoracic extension of hydatid cysts of the liver. Pinna AD, et al. **Surg Gynecol Obstet** 1990 Mar;170(3):233–8
[A case of primary extraorganic echinococcosis of the mediastinum] Kharitonov VA, et al. **Vrach Delo** 1989 Oct; (10):51–2 **(Rus)**
[Complicated forms of echinococcal disease] Marković A, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:549–53 **(Scr)**
[Experience with rare localizations of echinococcal cysts in our data] Vujović V, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:616–7 **(Scr)**
[Growth of cerebral hydatid cysts (letter)] Vaquero J, et al. **Neurologia** 1988 Jul–Aug;3(4):167 **(Spa)**
[The use of the plasma-thrombin method for diagnosing parasitic diseases] De Girolami E, et al. **Rev Biol Trop** 1988 Nov;36(2B):485–98 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

[Comprehensive examination of the population to detect echinococcosis and recurrences of the disease] Akmatov BA. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):76–9 (Eng. Abstr.) **(Rus)**
[Prevention of echinococcosis (hydatidosis)] Zivković K. **Acta Chir Iugosl** 1989;36 Suppl 2:528–31 **(Scr)**

RADIOGRAPHY

Multiple hydatid cysts [letter] Nuri Sener R, et al. **AJR Am J Roentgenol** 1990 May;154(5):1126–7
Features of computed tomography in hydatid cysts of the urinary tract. Karabekios S, et al. **Br J Urol** 1989 Dec; 64(6):575–8
Unilateral hilar enlargement and oligemic lung secondary to mediastinal hydatidosis. Franquet T, et al. **Eur J Radiol** 1990 Jan–Feb;10(1):62–4
Computed tomographic localization of pelvic hydatid disease. Kotoulas G, et al. **Eur J Radiol** 1990 Jul–Aug;11(1):38–41
Hydatid cyst of kidney: a new radiological sign [letter] Rao KL, et al. **Indian Pediatr** 1990 Feb;27(2):213–4
Peritoneal Echinococcus multilocularis infection: CT appearance. Taneja K, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):493–4
Orbital hydatid cyst: assessment of two cases. Alparslan L, et al. **Neuroradiology** 1990;32(2):163–5
Unusual CT image of a cerebral hydatid cyst. González-Ruiz CA, et al. **Pediatr Radiol** 1990;20(4):283–4
Case report 616: Hydatid disease (HD) involving multiple bones and soft tissue. von Sinner WN. **Skeletal Radiol** 1990; 19(4):312–6
Multiple primary hydatid cysts of the brain. Paşaoğlu A, et al. **Turk J Pediatr** 1989 Jan–Mar;31(1):57–61
[Hydatic cyst of the psoas muscle. Apropos of 3 cases] Saad H, et al. **Ann Chir** 1990;44(4):299–301 (Eng. Abstr.) **(Fre)**
[CT in echinococcosis of the lumbar spine and paravertebral structures] Rieber A, et al. **ROFO** 1989 Sep;151(3):379–80 **(Ger)**
[X-ray diagnosis of echinococcosis of the bones] Marin IM, et al. **Vestn Rentgenol Radiol** 1989 Nov–Dec;(6):20–4 (Eng. Abstr.) **(Rus)**
[Renal hydatid cyst] Viguès Juliá F, et al. **Actas Urol Esp** 1989 Jul–Aug;13(4):268–70 (Eng. Abstr.) **(Spa)**

RADIONUCLIDE IMAGING

Echinococcus granulosus: the potential use of specific radiolabelled antibodies in diagnosis by immunoscintigraphy. Rogan MT, et al. **Clin Exp Immunol** 1990 May;80(2):225–31

SURGERY

Multiple cerebral hydatid cysts: report of two cases. Iplikçioğlu AC, et al. **Br J Neurosurg** 1989;3(2):217–9
Posterior mediastinal paravertebral hydatid cyst presenting as spinal compression. A case report. Ranganadham P, et al. **Clin Neurol Neurosurg** 1990;92(2):149–51
Our experiences in surgical treatment of thoracic echinococcosis during the period 1977–1986. Gashi M, et al. **Eur J Cardiothorac Surg** 1988;2(6):425–9
Surgical treatment of hydatid cysts of the heart: report of six cases. Ameli M, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):892–901 (34 ref.)
Catheter-needle device for intraoperative puncture of hydatid cyst. Jain BK, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):75–6
[2 case reports of echinococcosis of the diaphragm] Atanasov A, et al. **Khirurgiia (Sofiia)** 1989;42(3):76–7 **(Bul)**
[Hydatid cyst of the brain. Apropos of a series of 14 cases] Hamdi A, et al. **Ann Chir** 1990;44(3):226–30 (Eng. Abstr.) **(Fre)**
[Isolated retroperitoneal hydatid cyst. Apropos of a case]

Ouadfel J, et al. **Ann Chir** 1990;44(3):243–5 (Eng. Abstr.) (Fre)

[Hydatidosis of the cervicofacial glands. Apropos of 6 cases] Touhami M, et al. **J Chir (Paris)** 1990 Apr;127(4):220–2 (Eng. Abstr.) (Fre)

[Extensive echinococcosis of the femur] Gorun N, et al. **Rev Chir [Chir]** 1989 Nov–Dec;38(6):465–72 (30 ref.) (Rum)

[Treatment of rupture of pulmonary echinococcosis to the pleural cavity] Islambekov ES, et al. **Grud Serdechnososudistaia Khir** 1990;(3):34–7 (Eng. Abstr.) (Rus)

[Echinococcosis of the spleen in children] Pulatov AT, et al. **Khirurgiia (Mosk)** 1989 Nov;(11):62–5 (Eng. Abstr.) (Rus)

[Surgical treatment of echinococcosis from 1934 to 1984 at the surgery–urology department of the Dubrovnik Medical Center] Bogdanović S. **Acta Chir Iugosl** 1989;36 Suppl 2:592–5 (Scr)

[20 years' experience in the treatment of abdominal echinococcosis (1966–1987)] Daničić B, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:579–82 (Eng. Abstr.) (Scr)

[Personal experience in the surgical treatment of echinococcosis localized in the abdomen 1978–1988] Hajdarević B, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:634–7 (Scr)

[Personal experience with recurrent echinococcal cysts in the abdomen in a 20-year period (1966–1987)] Ilić M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:583–5 (Scr)

[Drug and surgical therapy of hydatidosis] Lalji P, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:540–2 (Eng. Abstr.) (Scr)

[Surgical treatment of cerebral echinococcosis using the Dowling technic] Mirčevski M. **Acta Chir Iugosl** 1989;36 Suppl 2:617–21 (Scr)

[Operative approach in echinococcosis at the surgical department of Bežanijska Kosa Medical Center 1983–1987] Velinović M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:629–31 (Scr)

[Management of suppurative echinococcosis in our facility] Vujović V, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:577–8 (Scr)

[Analysis of some variables in patients with hydatidosis surgically treated at the Regional Hospital of Valdivia, Chile, 1976–1986] Ernst S, et al. **Bol Chil Parasitol** 1989 Jan–Jun;44(1–2):30–3 (Eng. Abstr.) (Spa)

[Primary hydatid cyst of the psoas (letter)] Jiménez-Mejías ME, et al. **Rev Clin Esp** 1989 Jul–Aug;185(3):169–70 (Spa)

[Primary muscular hydatid cyst. Presentation of a new case (letter)] Pérez Rafecas M, et al. **Rev Esp Enferm Apar Dig** 1989 Nov;76(5):508–9 (Spa)

VETERINARY

Assessment of a serological test for the detection of Echinococcus granulosus infection in dogs in Kenya. Jenkins DJ, et al. **Acta Trop (Basel)** 1990 May;47(4):245–8

The epidemiology of Echinococcus granulosus in Great Britain. V. The status of subspecies of Echinococcus granulosus in Great Britain. Cook BR. **Ann Trop Med Parasitol** 1989 Feb;83(1):51–61

The status of subspecies or strains of Echinococcus granulosus in Great Britain. Lymbery AJ, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):549–52

Can implanted cyst pieces of Echinococcus granulosus regenerate? Riley EM, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):271–4

Serological screening of farm dogs for Echinococcus granulosus infection in an endemic region. Gasser RB, et al. **Aust Vet J** 1990 Apr;67(4):145–7

Hydatidosis among wildlife in India. Ray DK. **Indian J Public Health** 1988 Oct–Dec;32(4):209–10

Echinococcus multilocularis: a rare cestode of the domestic cat in France. Deblock S, et al. **Int J Parasitol** 1989 Sep; 19(6):687–8

Echinococcosis in camels as revealed by indirect haemagglutination test in Belbas. el-Ridi AM, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):95–8

Comparison of Albendazole and Praziquantel therapy of Echinococcus granulosus in naturally infected sheep. Morris DL, et al. **Vet Parasitol** 1990 May;36(1–2):83–90

[Purification of hydatid fluid from sheep] Hamrioui B, et al. **Arch Inst Pasteur Alger** 1988;56:117–23 (Eng. Abstr.) (Fre)

[Physical chemical characteristics of fraction 5 of hydatid fluid] Hamrioui B, et al. **Arch Inst Pasteur Alger** 1988; 56:124–9 (Eng. Abstr.) (Fre)

[Production of anti-hydatid monoclonal antibodies] Hamrioui B, et al. **Arch Inst Pasteur Alger** 1988;56:130–46 (Eng. Abstr.) (Fre)

[Echinococcus multilocularis in a swamp beaver (Myocaster coypus)] Worbes H, et al. **Angew Parasitol** 1989 Aug; 30(3):161–5 (Eng. Abstr.) (Ger)

ECHINOCOCCOSIS, HEPATIC

Advances in diagnosis and management of hydatid disease. al Karawi MA, et al. **Hepatogastroenterology** 1990 Jun; 37(3):327–31 (14 ref.)

[The so-called "fox-tapeworm"] Eckert J, et al. **Schweiz Arch Tierheilkd** 1990;132(2):92–8 (19 ref.) (Eng. Abstr.) (Ger)

[Diagnosis and treatment of liver cysts] Al'perovich BI, et al. **Sov Med** 1989;(12):80–2 (Rus)

[Analysis of echinococcosis of the liver and spleen in Južni Banat 1968–1988] Ivica A, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:544–5 (Scr)

BLOOD

[The distribution of ABO system blood groups in patients with unilocular echinococcosis] Chobanov RE, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):18–20 (Eng. Abstr.) (Rus)

COMPLICATIONS

Parasitic causes of obstructive jaundice. Dennis MJ, et al. **Ann Trop Med Parasitol** 1989 Apr;83(2):159–61

Hepatic echinococcosis complicated with transphrenic migration and bronchial fistula: CT demonstration. Grande D, et al. **Gastrointest Radiol** 1990 Spring;15(2):115–8

Value of ERCP in the diagnosis and management of pre- and postoperative biliary complications in hydatid disease of the liver. Magistrelli P, et al. **Gastrointest Radiol** 1989 Fall;14(4):315–20

Complications of hepatic hydatid cysts: ultrasound, computed tomography, and magnetic resonance diagnosis. Martí-Bonmatí L, et al. **Gastrointest Radiol** 1990 Spring; 15(2):119–25

S. typhi infection of hydatid cyst. Sitaram V, et al. **Indian J Pathol Microbiol** 1990 Jan;33(1):74–5

Portal hypertension due to hydatid disease of the liver. Papadimitriou J, et al. **J R Soc Med** 1990 Feb;83(2):120–1

Alveolar echinococcosis with involvement of the ureter and testis. Strohmaier WL, et al. **J Urol** 1990 Sep;144(3):733–4

Pancreatitis as a complication of a hydatic liver cyst—a case report. Menteş A, et al. **Jpn J Surg** 1990 May;20(3):356–8

Jaundice caused by hydatid disease of the liver. Stuiver PC, et al. **Neth J Med** 1989 Dec;35(5–6):241–8

Pleural complications of hydatid disease (Echinococcus granulosus). von Sinner W. **ROFO** 1990 Jun;152(6):718–22

[Hepatic hydatid cyst with destruction of the biliary confluent. Apropos of 2 cases treated by direct reconstruction] Martin Molinero R, et al. **J Chir (Paris)** 1989 Dec;126(12):672–5 (Eng. Abstr.) (Fre)

[Small intestine occlusion caused by the silent opening of liver hydatid cysts into the peritoneum. Apropos of an uncommon case] Daghfous MH, et al. **J Radiol** 1990 Feb; 71(2):81–3 (Eng. Abstr.) (Fre)

[Asthma related to hydatid cyst (letter)] Costa B, et al. **Presse Med** 1990 Jun 9;19(23):1105–6 (Fre)

[ERCP in bile duct dilatation with jaundice due to spontaneous hydatid cyst rupture. Diagnosis, differential diagnosis, therapy and result] Meier R, et al. **Schweiz Rundsch Med Prax** 1990 Apr 10;79(15):443–7 (Eng. Abstr.) (Ger)

[Biliary peritonitis caused hy hydatid disease] Melita P, et al. **Minerva Chir** 1990 Apr 30;45(8):581–4 (9 ref.) (Eng. Abstr.) (Ita)

[Sclerosing cholangitis subsequent to surgical intervention for hepatic hydatidosis. A clinical case] Caccamo L, et al. **Minerva Med** 1989 Aug;80(8):865–8 (Ita)

[Hydatid cysts of the liver ruptured into the bile ducts. Remarks on 2 cases] La Seta F, et al. **Radiol Med (Torino)** 1989 Nov;78(5):534–7 (Ita)

[Perforation of echinococcal cyst of the liver to the stomach] Tsybyrné KA, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):133–4 (Rus)

[Perforation of hepatic hydatid cysts into the abdominal cavity in children] Pulatov AT, et al. **Klin Khir** 1990; (6):12–4 (Eng. Abstr.) (Rus)

[Echinococcosis of the breast and liver] Prokopenko OP. **Vestn Rentgenol Radiol** 1989 Jul–Aug;(4):88–9 (Rus)

[Obstructive icterus caused by hydatidosis of the liver] Milišić D, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:597–9 (Eng. Abstr.) (Scr)

[Hepato-renal polycystic disease and liver hydatidosis (a rare association)] Coll MA, et al. **Rev Esp Enferm Dig** 1990 Feb;77(2):151–4 (Eng. Abstr.) (Spa)

DIAGNOSIS

An ELISA test for diagnosis and screening of echinococcus multilocularis in a high-risk Inupiat Eskimo population. Lanier AP, et al. **Arctic Med Res** 1988;47 Suppl 1:691–2

Recurrent hepatic hydatid disease or prior omentoplasty: diagnostic dilemma. Merrett N, et al. **Aust N Z J Surg** 1989 Oct;59(10):791–4

Sonographic appearance of hepatic hydatid disease. Jain AK, et al. **Australas Radiol** 1989 Nov;33(4):373–5

Alveolar echinococcosis of the liver: MR findings. Claudon M, et al. **J Comput Assist Tomogr** 1990 Jul–Aug; 14(4):608–14

Echogenic forms of hydatid cysts: sonographic diagnosis. Garcia FJ, et al. **JCU** 1988 Jun;16(5):305–11

Ultrasound scanning as a screening technique for hydatidosis in developing countries. Saint Martin GA, et al. **JCU** 1988 May;16(4):233–7

Fever, abdominal pain, and headache in an Iranian woman [clinical conference] Mathisen GE, et al. **Rev Infect Dis** 1990 May–Jun;12(3):529–36

Hepatic hydatidosis: diagnostic and therapeutic aspects. Jalleh RP, et al. **Singapore Med J** 1989 Apr;30(2):210–2

[Avidin-biotin-peroxidase complex enzyme-linked immunosorbent assay in the diagnosis of human multilocular echinococcosis] Zhang JY, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1989;7(3):197–200 (Eng. Abstr.) (Chi)

[Alveolar echinococcosis. Contribution of medical imaging to its diagnosis: apropos of a case] Daghfous HM, et al. **Tunis Med** 1989 Nov;67(11):715–8 (Eng. Abstr.) (Fre)

[MRT and CT in alveolar echinococcosis of the liver] Duewell S, et al. **ROFO** 1990 Apr;152(4):441–5 (Eng. Abstr.) (Ger)

[CT and US in a case of hepatic alveolar hydatidosis] De Maria M, et al. **Radiol Med (Torino)** 1990 Jan–Feb; 79(1–2):105–7 (Ita)

[Alveolar hydatid disease of the liver in children—radiographic findings] Sasaki F, et al. **Rinsho Hoshasen** 1989 Aug;34(8):871–7 (Eng. Abstr.) (Jpn)

[Echinococcosis of the liver in children] Kuberger MB, et al. **Pediatriia** 1990;(3):93–5 (Rus)

[Echinococcal disease of the liver] Andromako N, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:575–7 (Eng. Abstr.) (Scr)

[Ultrasound, an important diagnostic method for the diagnosis of echinococcosis of the liver] Murgel A. **Acta Chir Iugosl** 1989;36 Suppl 2:542–3 (Scr)

[Ultrasonography of echinococcosis, toxocariasis and cysticercosis of the liver] Hrušovský S, et al. **Cesk Radiol** 1989 Oct;43(5):318–24 (Eng. Abstr.) (Slo)

DRUG THERAPY

Effects of ethyl N-N-benzyl-methyl-oxamate in Meriones unguiculatus infected with Echinococcus multilocularis metacestodes. Biochemical and ultrastructural observations. Sarciron ME, et al. **Arzneimittelforschung** 1990 May;40(5):607–10

Albendazole treatment of echinococcosis in humans: effects on microsomal metabolism and drug tolerance. Steiger U, et al. **Clin Pharmacol Ther** 1990 Mar;47(3):347–53

[Therapeutic effects of albendazole in hepatic and abdominal hydatidosis] Wen H. **Chung Hua I Hsueh Tsa Chih** 1990 Jan;70(1):47–9 (Chi)

[Albendazole in the treatment of hydatidosis] Liu YH, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):553–7, 573–4 (Eng. Abstr.) (Chi)

[Treatment of hydatidosis with albendazol] Magnussen P, et al. **Ugeskr Laeger** 1989 Oct 23;151(43):2791–4 (Eng. Abstr.) (Dan)

EPIDEMIOLOGY

Prevalence of human hydatidosis in Uttar Pradesh. Irshadullah M, et al. **J Commun Dis** 1989 Jun;21(2):114–22

Pastoralists and hydatid disease: an ultrasound scanning prevalence survey in east Africa. Macpherson CN, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):243–7

First report on the occurrence of human cases of alveolar echinococcosis in the northeast of Austria. Auer H, et al. **Trop Med Parasitol** 1990 Jun;41(2):149–56

[Epidemiology of alveolar echinococcosis in France. 1. Intestinal helminths in the red fox (Vulpes vulpes L.) from Haute-Savoie] Pétavy AF, et al. **Ann Parasitol Hum Comp** 1990;65(1):22–7 (Eng. Abstr.) (Fre)

ETIOLOGY

A case of unilocular hydatid disease imported from Saudi Arabia. Huh S, et al. **J Korean Med Sci** 1988 Sep;3(3):131–4 (15 ref.)

IMMUNOLOGY

Cellular immune response in Echinococcus multilocularis infection in humans. I. Lymphocyte reactivity to Echinococcus antigens in patients with alveolar echinococcosis. Bresson-Hadni S, et al. **Clin Exp Immunol** 1989 Oct;78(1):61–6

Cellular immune response in Echinococcus multilocularis infection in humans. II. Natural killer cell activity and cell subpopulations in the blood and in the periparasitic granuloma of patients with alveolar echinococcosis. Vuitton DA, et al. **Clin Exp Immunol** 1989 Oct;78(1):67–74

Cell-mediated immune response in human hepatic echinococcosis. Analysis of antigen-induced lymphoproliferation and NK activity. Ausiello C, et al. **J Biol Regul Homeost Agents** 1989 Oct–Dec;3(4):146–52

[An indirect hemagglutination study of total IgE and complement fractions C3c and C4 in patients with hepatic hydatidosis and undergoing therapy] Orlando R, et al. **Minerva Med** 1989 Dec;80(12):1289–92 (Eng. Abstr.) (Ita)

[The distribution of the HLA antigen system among patients with echinococcosis] Shcherbakov AM, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):75–80 (Eng. Abstr.) (Rus)

METABOLISM

Lipids in hydatid fluid collected from lungs and livers of sheep and man. Sultan Sheriff D, et al. **J Helminthol** 1989 Sep;63(3):266–8

PARASITOLOGY

Comparison of the viability and developmental

characteristics of Echinococcus multilocularis isolates from human patients in France. Liance M, et al. **Int J Parasitol** 1990 Feb;20(1):83–6

Parasitologic findings in percutaneous drainage of human hydatid liver cysts. Filice C, et al. **J Infect Dis** 1990 Jun; 161(6):1290–5

PATHOLOGY

Echinococcic pseudotuberculosis of peritoneum. Singh RP, et al. **J Assoc Physicians India** 1989 Jun;37(6):389–90

Thoracic extension of hydatid cysts of the liver. Pinna AD, et al. **Surg Gynecol Obstet** 1990 Mar;170(3):233–8

SURGERY

Endoscopic sphincterotomy in hepatic hydatid disease open to the biliary tree. Vignote ML, et al. **Br J Surg** 1990 Jan; 77(1):30–1

Simultaneous operation for right pulmonary and liver echinococcosis. Eren N, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(2):131–4

Pericystectomy for the treatment of hepatic hydatid cysts. Elhamel A. **Surgery** 1990 Mar;107(3):316–20

Em2-ELISA for the follow-up of alveolar echinococcosis after complete surgical resection of liver lesions. Gottstein B, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun; 83(3):389–93

[Polycystosis of the liver and kidneys] Tonev S, et al. **Khirurgiia (Sofiia)** 1990;43(1):83 (Bul)

[Surgery of hydatid cysts of the liver: 581 patients, 952 cysts] Maaouni A, et al. **Chirurgie** 1989;115 Suppl 1:61–8; discussion 69 (Eng. Abstr.) (Fre)

[Intra-operative precautions and a proposition for a postoperative monitoring protocol in hepatic hydatidosis] Spay G, et al. **Chirurgie** 1989;115(8):558–64 (Eng. Abstr.) (Fre)

[Resection of the prominent dome of a hydatid cyst of the liver. Apropos of 360 cases] Moumen M, et al. **J Chir (Paris)** 1990 Feb;127(2):83–6 (Eng. Abstr.) (Fre)

[Hepatic hydatic cysts rupturing into the bile ducts. Treatment by cysto-biliary disconnection] Settaf A, et al. **Presse Med** 1989 Sep 30;18(30):1476–8 (Eng. Abstr.) (Fre)

[Results of the treatment of hepatic echinococcosis by hydatectomy] Horch R, et al. **Nippon Geka Hokan** 1989 Sep 1;58(5):398–404 (Eng. Abstr.) (Ger)

[A thermal method of disinfection of the cavity of echinococcal cyst] Akmatov BA. **Khirurgiia (Mosk)** 1989 Aug;(8):123–5 (Rus)

[Use of the CO2 laser in the surgical treatment of complicated echinococcosis of the liver] Aliev MA, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):46–8 (Eng. Abstr.) (Rus)

[Surgical treatment of complex external biliary fistula] Masalin MM, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):132 (Rus)

[Repeat surgery in focal lesions of the liver] Nikhinson RA, et al. **Khirurgiia (Mosk)** 1990 Jan;(1):34–8 (Eng. Abstr.) (Rus)

[A case of hepatic echinococcosis in a child] Shul'ga DF, et al. **Klin Khir** 1990;(6):56 (Rus)

[Diagnosis and surgical treatment of hepatic echinococcosis] Babadzhanov BR, et al. **Vestn Khir** 1989 Nov;143(11):55–6 (Rus)

[Drainage of the pericystic cavity in echinococcosis of the liver] Cenić G, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:572–4 (Eng. Abstr.) (Scr)

[Surgical treatment of complicated echinococcosis of the lungs and liver] Cvetanović D, et al. **Acta Chir Iugosl** 1989; 36 Suppl 2:609–12 (Scr)

[Surgical treatment of echinococcal hepatic cysts with pericystectomy] Gadžijev E, et al. **Acta Chir Iugosl** 1989; 36 Suppl 2:567–9 (Eng. Abstr.) (Scr)

[Multiple heptic echinococcosis] Gigić A, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:586–7 (Scr)

[Treatment of echinococcal hepatic cysts—experience with 79 patients] Krasniqi A, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:569–72 (Scr)

[Comparison of results between the Robinson method of drainage and marsupialization] Limani D, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:595–7 (Scr)

[Preoperative preparation and anesthesia in patients with cardiovascular diseases undergoing surgical treatment of hepatic echinococcosis] Lugonja V, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:546–9 (Scr)

[Residual cavities after echinococcosis of the lungs and liver] Milović I, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:614–5 (Scr)

[40 years' experience in the treatment of echinococcosis] Najdanović M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:525–8 (Eng. Abstr.) (Scr)

[Personal experience with the surgical treatment of echinococcosis of the liver] Radojčić P, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:554–6 (Scr)

[Multiple echinococcosis of the liver: diagnosis, surgical technic and postoperative course] Sošić M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:560–3 (Scr)

[Surgical treatment of echinococcosis of the liver] Stanković M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:563–6 (Scr)

[Echinococcosis of the liver—10 years' experience] Todorovski F, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:587–9 (Eng. Abstr.) (Scr)

[A rational approach in the diagnosis and surgical treatment of hepatic echinococcosis] Uravić M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:556–60 (Scr)

[Role of liver transplant in the treatment of hepatic hydatidosis] Moreno González E, et al. **Rev Esp Enferm Apar Dig** 1989 Jul;76(1):1–3 (Eng. Abstr.) (Spa)

THERAPY

A new therapeutic approach for hydatid liver cysts. Aspiration and alcohol injection under sonographic guidance. Filice C, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1366–8

Alveolar echinococcosis of the liver: a parasitic disease in search of a treatment. Vuitton D. **Hepatology** 1990 Sep;12(3 Pt 1):617–8

ECHINOCOCCOSIS, PULMONARY

Hydatic cyst of the lung in routine pneumological practice. Skander F, et al. **Bull Int Union Tuberc Lung Dis** 1989 Jun;64(2):29–30

[Hydatid cyst of the lung] Larbaoui D. **Rev Pneumol Clin** 1989;45(2):49–63 (38 ref.) (Eng. Abstr.) (Fre)

[Echinococcosis of the lungs] Petričević A. **Acta Chir Iugosl** 1989;36 Suppl 2:600–5 (Eng. Abstr.) (Scr)

BLOOD

[The distribution of ABO system blood groups in patients with unilocular echinococcosis] Chobanov RE, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):18–20 (Eng. Abstr.) (Rus)

COMPLICATIONS

Recurrent hydatid pulmonary emboli. Hirzalla MO, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1082–5

Pancoast's syndrome caused by primary pulmonary hydatid cyst. Gotterer N, et al. **Respir Med** 1990 Mar;84(2):169–70

Pleural complications of hydatid disease (Echinococcus granulosus). von Sinner W. **ROFO** 1990 Jun;152(6):718–22

[Multiple pulmonary hydatidosis associated with intracardiac cyst. Apropos of a case] M'Raihi ML, et al. **Rev Pneumol Clin** 1989;45(2):78–80 (Eng. Abstr.) (Fre)

[Treatment of rupture of pulmonary echinococcosis to the pleural cavity] Islambekov ES, et al. **Grud Serdechnososudistaia Khir** 1990;(3):34–7 (Eng. Abstr.) (Rus)

DIAGNOSIS

An unusual presentation of hydatid disease of the lungs. Kennedy D, et al. **Chest** 1990 Apr;97(4):997–9

Pulmonary hydatid disease presenting as non-resolving bilateral consolidations. Guleria R, et al. **Indian J Chest Dis Allied Sci** 1989 Apr–Jun;31(2):129–31

[Complicated hydatid cyst of the lung. Endoscopic diagnosis. Spontaneous favourable outcome] Hajbi O, et al. **Rev Pneumol Clin** 1989;45(6):271–3 (Eng. Abstr.) (Fre)

[An atypical case of pulmonary echinococcosis] Radionov BV, et al. **Klin Khir** 1989;(10):59 (Rus)

DRUG THERAPY

[Albendazole in the treatment of hydatidosis] Liu YH, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):553–7, 573–4 (Eng. Abstr.) (Chi)

EPIDEMIOLOGY

Prevalence of human hydatidosis in Uttar Pradesh. Irshadullah M, et al. **J Commun Dis** 1989 Jun;21(2):114–22

Alveolar echinococcosis. **Wkly Epidemiol Rec** 1990 Feb 9; 65(6):37–8 (Eng, Fre)

[Human alveolar echinococcosis. Epidemiologic hazard or immunologic incident?] Vuitton DA, et al. **Gastroenterol Clin Biol** 1990;14(2):124–30 (26 ref.) (Fre)

IMMUNOLOGY

Echinococcus multilocularis: characterization of an alveolar hydatid cyst-induced amyloid enhancing factor. Alkarmi T, et al. **Br J Exp Pathol** 1989 Oct;70(5):579–88

[Comparison of serum immunoglobulin levels in patients with alveolar and cystic echinococcosis] Zhang J, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):38–40 (Eng. Abstr.) (Chi)

[The distribution of the HLA antigen system among patients with echinococcosis] Shcherbakov AM, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):75–80 (Eng. Abstr.) (Rus)

METABOLISM

Pathogenesis of secondary amyloidosis in an alveolar hydatid cyst-mouse model: histopathology and immuno/enzyme-histochemical analysis of splenic marginal zone cells during amyloidogenesis. Du T, et al. **J Exp Pathol (Oxford)** 1990 Jun;71(3):313–35

Lipids in hydatid fluid collected from lungs and livers of sheep and man. Sultan Sheriff D, et al. **J Helminthol** 1989 Sep;63(3):266–8

PHYSIOPATHOLOGY

[Reserves of pulmonary ventilation and gas exchange in patients with pulmonary echinococcosis] Gafurov FKh, et al. **Vestn Khir** 1990 Feb;144(2):18–20 (Eng. Abstr.) (Rus)

RADIOGRAPHY

Asymptomatic pulmonary cyst in a college student. Burlew BP, et al. **Chest** 1990 Aug;98(2):455–7

Unilateral hilar enlargement and oligemic lung secondary to mediastinal hydatidosis. Franquet T, et al. **Eur J Radiol** 1990 Jan–Feb;10(1):62–4

[Echinococcosis with special reference to lung involvement] Loos U, et al. **Pneumologie** 1990 Feb;44 Suppl 1:552–3 (Eng. Abstr.) (Ger)

[Difficulties in the differential diagnosis of pulmonary echinococcosis] Rustamov IR, et al. **Klin Khir** 1989; (10):52–3 (Rus)

SURGERY

Surgical treatment of thoracic hydatidosis. A review of 100 cases. Zapatero J, et al. **Eur J Cardiothorac Surg** 1989; 3(5):436–40

Simultaneous operation for right pulmonary and liver echinococcosis. Eren N, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(2):131–4

The hydatid cyst of the lung in children and results of surgical treatment. Solak H, et al. **Thorac Cardiovasc Surg** 1990 Feb;38(1):45–7

[Hydatid cyst of the lung in children. Apropos of a series of 162 surgically treated cases] Letaief R, et al. **Tunis Med** 1990 Mar;68(3):167–71 (Eng. Abstr.) (Fre)

[Choices of treatment in pulmonary echinococcosis] Kuskov SI, et al. **Grud Serdechnososudistaia Khir** 1990;(2):49–52 (Eng. Abstr.) (Rus)

[Pulmonary echinococcosis and effectiveness of its surgical treatment] Gel'dyev AG. **Probl Tuberk** 1989;(8):42–4 (Eng. Abstr.) (Rus)

[Surgical approach in pulmonary echinococcosis] Colančeski V, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:606–8 (Scr)

[Surgical treatment of complicated echinococcosis of the lungs and liver] Cvetanović D, et al. **Acta Chir Iugosl** 1989; 36 Suppl 2:609–12 (Scr)

[Personal experience in the treatment of echinococcosis of the lungs in children] Kalinić D, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:612–4 (Scr)

[Residual cavities after echinococcosis of the lungs and liver] Milović I, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:614–5 (Scr)

[40 years' experience in the treatment of echinococcosis] Najdanović M, et al. **Acta Chir Iugosl** 1989;36 Suppl 2:525–8 (Eng. Abstr.) (Scr)

THERAPY

[Pulmonary hydatidosis] de Saint-Florent G. **Rev Pneumol Clin** 1989;45(2):47–8 (Fre)

ECHINOCOCCUS

ANALYSIS

Analysis of the monohexosylceramide fraction of Echinococcus multilocularis metacestodes. Persat F, et al. **Mol Biochem Parasitol** 1990 Jun;41(1):1–6

Glycosaphingolipids of Echinococcus multilocularis metacestodes. Persat F, et al. **Mol Biochem Parasitol** 1990 Jan 1;38(1):97–103

ANATOMY & HISTOLOGY

Echinococcus multilocularis: a rare cestode of the domestic cat in France. Deblock S, et al. **Int J Parasitol** 1989 Sep; 19(6):687–8

CLASSIFICATION

The epidemiology of Echinococcus granulosus in Great Britain. V. The status of subspecies of Echinococcus granulosus in Great Britain. Cook BR. **Ann Trop Med Parasitol** 1989 Feb;83(1):51–61

The status of subspecies or strains of Echinococcus granulosus in Great Britain. Lymbery AJ, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):549–52

DRUG EFFECTS

Echinococcus multilocularis: ultrastructural effect of in vivo albendazole and praziquantel therapy, singly and in combination. Richards KS, et al. **Ann Trop Med Parasitol** 1989 Oct;83(5):479–84

Effects of ethyl N-N-benzyl-methyl-oxamate in Meriones unguiculatus infected with Echinococcus multilocularis metacestodes. Biochemical and ultrastructural observations. Sarciron ME, et al. **Arzneimittelforschung** 1990 May;40(5):607–10

In vitro effects of levamisole and ivermectin against Echinococcus granulosus protoscoleces. Casado N, et al. **Int J Parasitol** 1989 Dec;19(8):945–7

Echinococcus granulosus: development of resistance to albendazole in an animal model. Morris DL, et al. **J Helminthol** 1990 Jun;64(2):171–4

In vivo morphological damage induced by a new

benzimidazole prodrug in Echinococcus multilocularis metacestodes. Walchshofer N, et al. **J Pharm Sci** 1990 Jul; 79(7):606–8

Echinococcus granulosus: in vitro maintenance of whole cysts and the assessment of the effects of albendazole sulphoxide and praziquantel on the germinal layer. Taylor DH, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug; 83(4):535–8

GENETICS

Genetic differences between cysts of Echinococcus granulosus from the same host. Lymbery AJ, et al. **Int J Parasitol** 1989 Dec;19(8):961–4

Amino acid sequence homology between cyclophilin and a cDNA-cloned antigen of Echinococcus granulosus. Lightowlers MW, et al. **Mol Biochem Parasitol** 1989 Oct; 36(3):287–9

Genetic heterogeneity within Echinococcus granulosus: isolates from different hosts and geographical areas characterized with DNA probes. McManus DP, et al. **Parasitology** 1989 Aug;99 Pt 1:17–29

GROWTH & DEVELOPMENT

Rapid technique for cryopreservation of Echinococcus multilocularis metacestodes. Bretagne S, et al. **Int J Parasitol** 1990 Apr;20(2):265–7

Comparison of the viability and developmental characteristics of Echinococcus multilocularis isolates from human patients in France. Liance M, et al. **Int J Parasitol** 1990 Feb;20(1):83–6

Uniform strobilar development of Echinococcus multilocularis in vitro from protoscolex to immature stages. Thompson RC, et al. **J Parasitol** 1990 Apr;76(2):240–7

Development of larval Echinococcus granulosus confronted with chicken heart tissue in vitro. Janssen D, et al. **Parasitology** 1990 Jun;100 Pt 3:453–8

Survival, strobilation and sexual maturation of Echinococcus multilocularis in the small intestine of golden hamsters. Kamiya M, et al. **Parasitology** 1990 Feb;100 Pt 1:125–30

[Growth of a cerebral hydatid cyst evaluated by CT study] Arboix A, et al. **Neurologia** 1988 Jan–Feb;3(1):31–4 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Assessment of a serological test for the detection of Echinococcus granulosus infection in dogs in Kenya. Jenkins DJ, et al. **Acta Trop (Basel)** 1990 May;47(4):245–8

Field evaluation of an enzyme immunoassay for detection of asymptomatic patients in a hydatid control program. Coltorti E, et al. **Am J Trop Med Hyg** 1988 May; 38(3):603–7

An enzyme-linked immunosorbent assay using an arc 5 antigen for the diagnosis of cystic hydatid disease. Hira PR, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):157–62

Diagnosis of human hydatid disease in surgically-confirmed cases by the use of the indirect haemagglutination test based on a thermo-stable lipoprotein and on unfractionated hydatid cyst fluid. Njeruh FM, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):299–303

An ELISA test for diagnosis and screening of echinococcus multilocularis in a high-risk Inupiat Eskimo population. Lanier AP, et al. **Arctic Med Res** 1988;47 Suppl 1:691–2

Serological screening of farm dogs for Echinococcus granulosus infection in an endemic region. Gasser RB, et al. **Aust Vet J** 1990 Apr;67(4):145–7

Hydatidosis diagnosis by double diffusion in agar with arc 5 detection. Mercado R, et al. **Bull Pan Am Health Organ** 1989;23(3):295–8

Cellular immune response in Echinococcus multilocularis infection in humans. I. Lymphocyte reactivity to Echinococcus antigens in patients with alveolar echinococcosis. Bresson-Hadni S, et al. **Clin Exp Immunol** 1989 Oct;78(1):61–6

Application of enzyme-linked immunosorbent assay (ELISA) based on two E. granulosus antigens in the diagnosis of human hydatidosis. Njeruh FM, et al. **East Afr Med J** 1989 Nov;66(11):738–42

The amino acid and fatty acid composition of the thermostable lipoprotein ("Antigen 880") of hydatid cyst fluid (HCF). Njeruh FM, et al. **East Afr Med J** 1989 Mar; 66(3):219–30

Echinococcosis in camels as revealed by indirect haemagglutination test in Belbas. el-Ridi AM, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):95–8

Phlogistic and chemotactic activities of alveolar hydatid cyst antigen. Alkarmi T, et al. **J Parasitol** 1989 Oct;75(5):711–9

Subunit composition and specificity of the major cyst fluid antigens of Echinococcus granulosus. Lightowlers MW, et al. **Mol Biochem Parasitol** 1989 Dec;37(2):171–82

Isolation and partial characterization of species-specific and cross-reactive antigens of Echinococcus granulosus cyst fluid. al-Yaman FM, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):101–7

Humoral and cellular immune response in mice and dogs induced by a recombinant Echinococcus multilocularis antigen produced by a Salmonella typhimurium vaccine strain. Gottstein B, et al. **Parasite Immunol** 1990 Mar; 12(2):163–74

Regulation of macrophage-mediated larvicidal activity in Echinococcus granulosus and Mesocestoides corti (Cestoda) infection in mice. Jenkins P, et al. **Parasitology** 1990 Apr;100 Pt 2:309–15

Em2-ELISA for the follow-up of alveolar echinococcosis after complete surgical resection of liver lesions. Gottstein B, et al. **Trans R Soc Trop Med Hyg** 1989 May-Jun; 83(3):389–93

[Cell line of hybridoma secreting monoclonal antibodies against Echinococcus granulosus antigens] Hu QH, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1989;7(4):249–51 (Eng. Abstr.) **(Chi)**

[Immunological humoral response in mice experimentally infected with Echinococcus granulosus, preliminary result of kinetic observation] Xue HC, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1989;7(3):170–3 (Eng. Abstr.) **(Chi)**

[Preparation and identification of monoclonal antibodies against Echinococcus granulosus hydatid cyst fluid antigen] Yang QL, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Dec;20(4):373–6 (Eng. Abstr.) **(Chi)**

[Production and characterization of monoclonal antibodies to Echinococcus multilocularis] Ito Y. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):484–91 (Eng. Abstr.) **(Jpn)**

[An evaluation of the efficacy of immunoenzyme analysis with whole and fractionated antigens of Echinococcus granulosus] Stepankovskaia LP, et al. **Med Parazitol (Mosk)** 1989 Sep–Oct;(5):68–70 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Rapid recovery of Echinococcus granulosus following 'successful' albendazole therapy in a gerbil model. Taylor DH, et al. **J Helminthol** 1989 Dec;63(4):349–52

Parasitologic findings in percutaneous drainage of human hydatid liver cysts. Filice C, et al. **J Infect Dis** 1990 Jun; 161(6):1290–5

[The elk—the intermediate host of Echinococcus granulosus in Yakutia] Isakov SI, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):58 (Eng. Abstr.) **(Rus)**

METABOLISM

Purification of Shiga toxin and Shiga-like toxins I and II by receptor analog affinity chromatography with immobilized P1 glycoprotein and production of cross-reactive monoclonal antibodies. Donohue-Rolfe A, et al. **Infect Immun** 1989 Dec;57(12):3888–93

PHYSIOLOGY

Can implanted cyst pieces of Echinococcus granulosus regenerate? Riley EM, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):271–4

[Ecological studies on the cercariae of Echinochasmus japonicus] Chen Y, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1990;8(1):26–8 (Eng. Abstr.) **(Chi)**

RADIATION EFFECTS

Effect of gamma irradiation on the rate of cyst development of E. granulosus larvae in Swiss albino mice. Charmy RA, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):297–306

ULTRASTRUCTURE

Echinococcus granulosus: ultrastructure of epithelial changes during the first 8 days of metacestode development in vitro. Harris A, et al. **Int J Parasitol** 1989 Sep;19(6):621–9

[Effect of praziquantel and albendazole on ultrastructure of protoscolex of Echinococcus granulosus] Xiao SH, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 May;10(3):285–7 (Eng. Abstr.) **(Chi)**

ECHINODERMATA

Phosphagen kinase evolution. Expression in echinoderms. Ratto A, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):195–203

[Binding of acid mucopolysaccharides of Stichopus japanicus to washed human platelets] Hu JB, et al. **Chung Kuo Yao Li Hsueh Pao** 1990 Jan;11(1):47–50 (Eng. Abstr.) **(Chi)**

[The contraceptive activity of triterpene glycosides—the total sum of holotoxins A1 and B1 and holothurin A in an experiment] Mats MN, et al. **Farmakol Toksikol** 1990 Mar–Apr;53(2):45–7 (Eng. Abstr.) **(Rus)**

ANALYSIS

Amino acid sequence of a major globin from the sea cucumber Paracaudina chilensis. Suzuki T. **Biochim Biophys Acta** 1989 Oct 19;998(3):292–6

Relaxing action of a holothurian toxin on mammalian smooth muscle. De Vore DE, et al. **Comp Biochem Physiol [C]** 1989;94(1):165–7

Occurrence of chondroitin sulfate E in glycosaminoglycan isolated from the body wall of sea cucumber Stichopus japonicus. Kariya Y, et al. **J Biol Chem** 1990 Mar 25; 265(9):5081–5

ENZYMOLOGY

Arylsulphatase in echinoderm immunocompetent cells. Canicatti C, et al. **Histochem J** 1989 Jul;21(7):419–24

GENETICS

Informational content of the echinoderm egg. Brandhorst BP. **Dev Biol (N Y 1985)** 1985;1:525–76 (188 ref.)

Detection and molecular cloning of highly repeated DNA in the sea cucumber sperm. Sainz J, et al. **Gene** 1989 Aug 1;80(1):57–64

The diameters of frozen-hydrated chromatin fibers increase with DNA linker length: evidence in support of variable diameter models for chromatin. Athey BD, et al. **J Cell Biol** 1990 Sep;111(3):795–806

Nucleotide sequence of a cDNA for phi, a histone to protamine transition protein from sea cucumber spermatozoa. Prats E, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10097

Preservation of a complex satellite DNA in two species of echinoderms. Sainz J, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):885–90

Presence of a vertebrate fibrinogen-like sequence in an echinoderm. Xu X, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2097–101

IMMUNOLOGY

Engagement of Polian vesicles during Holothuria polii response to erythrocyte injection. D'Ancona G, et al. **J Invertebr Pathol** 1989 Nov;54(3):300–5

ECHINOMYCIN see under **QUINOXALINES**

ECHINOPANAX see **GINSENG**

ECHINOSTOMA

Humoral response of the snail Biomphalaria glabrata to trematode infection: observations on a circulating hemagglutinin. Couch L, et al. **J Exp Zool** 1990 Sep; 255(3):340–9

GROWTH & DEVELOPMENT

Infectivity, growth, development and pathology of Echinostoma caproni (Trematoda) in the golden hamster. Isaacson AC, et al. **Int J Parasitol** 1989 Dec;19(8):943–4

Single and multiple worm infections of Echinostoma caproni (Trematoda) in the golden hamster. Fried B, et al. **J Helminthol** 1990 Mar;64(1):75–8

Influence of intramolluscan larval stages of Echinostoma liei on the infectivity of Schistosoma mansoni cercariae. Jourdane J, et al. **J Helminthol** 1990 Mar;64(1):71–4

Mallard ducklings (Anas platyrhynchos) experimentally infected with Echinostoma trivolvis (Digenea). Mucha KH, et al. **J Parasitol** 1990 Aug;76(4):590–2

ISOLATION & PURIFICATION

Lymnaea (Bullastra) cumingiana Pfeiffer (Pulmonata: Lymnaeidae): second intermediate host of Echinostoma malayanum in the Philippines. Monzon RB, et al. **Southeast Asian J Trop Med Public Health** 1989 Sep; 20(3):453–60

PHYSIOLOGY

Echinostoma and echinostomiasis. Huffman JE, et al. **Adv Parasitol** 1990;29:215–69 (169 ref.)

Single- and five-worm infections of Echinostoma caproni (Trematoda) in the ICR mouse. Fried B, et al. **Int J Parasitol** 1990 Feb;20(1):125–6

ULTRASTRUCTURE

Ultrastructure of the tail of Echinostoma revolutum cercaria. Zdárská Z, et al. **Folia Parasitol (Praha)** 1989;36(3):239–42

ECHINOSTOMIASIS see under **TREMATODE INFECTIONS**

ECHO VIRUSES see **ECHOVIRUSES**

ECHOCARDIOGRAPHY

Sudden dilatation of right ventricle in two patients with thrombosis of a mitral Björk valve detected by echocardiography: different aspects of acute and chronic overloads of the right ventricle in these patients. Assanelli D, et al. **Acta Cardiol** 1990;45(3):225–30

Diagnostic accuracy of M-mode and 2D echocardiography in infective endocarditis: clinical correlations. Marszal-Marciniak M, et al. **Acta Cardiol** 1990;45(2):107–12

Echocardiographic comparison of cardiac size and function before and after surgery for isolated mitral regurgitation: superiority of mitral valve repair vs mitral valve replacement. Rahko PS, et al. **Acta Cardiol** 1990; 45(3):189–94

A review of echocardiographic signs of a flail mitral valve. Rahko PS, et al. **Acta Cardiol** 1990;45(3):217–24

Evaluation of the left ventricular reserve by dynamic exercise echocardiography after surgery for valvular heart diseases. Sano S, et al. **Acta Med Okayama** 1989 Aug;43(4):223–31

Balloon atrial septostomy guided by two-dimensional echocardiography in infants with D-transposition of the great arteries. Hwang B, et al. **Acta Paediatr Sin** 1988 Jan–Feb;29(1):8–14

Pericardial effusion and pericardial compartments after open heart surgery. An analysis by computed tomography and

echocardiography. Duvernoy O, et al. **Acta Radiol** 1990 Jan;31(1):41–6

Echocardiographic visualization of a large mobile right atrial thrombus with sudden embolization during real-time scanning. Adamick R, et al. **Am Heart J** 1990 Sep; 120(3):699–701

Echocardiography in diagnostic assessment of peripheral arterial embolization. Bar-El Y, et al. **Am Heart J** 1990 May;119(5):1090–4

Diagnostic implications of the echocardiographically demonstrated pericardial peel. Blickman JG, et al. **Am Heart J** 1990 Apr;119(4):965–8

Echocardiographic recognition of tubercular submitral left ventricular aneurysm extending into left atrium. Daxini BV, et al. **Am Heart J** 1990 Apr;119(4):970–2

Comparison of hemodynamic pressure half-time method and Gorlin formula with Doppler and echocardiographic determinations of mitral valve area in patients with combined mitral stenosis and regurgitation. Fredman CS, et al. **Am Heart J** 1990 Jan;119(1):121–9

Unusual presentation and echocardiographic features of surgically proven nonbacterial thrombotic endocarditis. Habbab MA, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):404–6

Cardiac structure and function in continuous ambulatory peritoneal dialysis: influence of blood purification and hypercirculation. Hüting J, et al. **Am Heart J** 1990 Feb; 119(2 Pt 1):344–52

Isolated congenital left ventricular diverticulum: echocardiographic features in a fetus. Kitchiner D, et al. **Am Heart J** 1990 Jun;119(6):1435–7

Significance of laminar systolic regurgitant flow in patients with tricuspid regurgitation: a combined pulsed-wave, continuous-wave Doppler and two-dimensional echocardiographic study. Minagoe S, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):627–35

Echocardiographic identification of anomalous origin of the left circumflex coronary artery from the right sinus of Valsalva. Piovesana P, et al. **Am Heart J** 1990 Jan; 119(1):205–7

Right heart metastatic endocardial implants: echocardiographic and pathologic correlation. Rey M, et al. **Am Heart J** 1990 May;119(5):1217–20

Progression of aortic stenosis in adults: new appraisal using Doppler echocardiography. Roger VL, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):331–8

Prognostic value of a normal exercise echocardiogram. Sawada SG, et al. **Am Heart J** 1990 Jul;120(1):49–55

Detection of intracavitary right ventricular polypoid masses due to metastatic lymphoma using contrast echocardiography. Schmidt DR, et al. **Am Heart J** 1990 Aug;120(2):446–9

Transesophageal echocardiography in the differential diagnosis of atrial neovascularity during coronary angiography. Sear J, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):392–4

The echocardiographic recognition of an atrial myxoma vegetation. Tunick PA, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):679–80

Role of echocardiography in the diagnosis of cardiac lymphoma. Van Veldhuisen DJ, et al. **Am Heart J** 1990 Apr;119(4):973–7

Nuclear magnetic resonance imaging of the pulmonary arteries, subpulmonary region, and aorticopulmonary shunts: a comparative study with two-dimensional echocardiography and angiography. Vick GW 3d, et al. **Am Heart J** 1990 May;119(5):1103–10

Usefulness of echocardiography in managing left ventricular thrombi after acute myocardial infarction [letter] **Am J Cardiol** 1990 Aug 1;66(3):387–8

Comparison of echocardiographic quantitation of left ventricular ejection fraction to radionuclide angiography in patients with regional wall motion abnormalities. Albin G, et al. **Am J Cardiol** 1990 Apr 15;65(15):1031–2

Serial echocardiographic and Doppler evaluation of left ventricular diastolic filling in full-term neonates. Areias JC, et al. **Am J Cardiol** 1990 Jul 1;66(1):108–11

Usefulness of echocardiographic left ventricular ejection fraction and silent myocardial ischemia in predicting new coronary events in elderly patients with coronary artery disease or systemic hypertension. Aronow WS, et al. **Am J Cardiol** 1990 Mar 15;65(11):811–2

Utility of transesophageal echocardiography in interatrial septal puncture during percutaneous mitral balloon commissurotomy. Ballal RS, et al. **Am J Cardiol** 1990 Jul 15;66(2):230–2

Early estimation of risk by echocardiographic determination of wall motion index in an unselected population with acute myocardial infarction. Berning J, et al. **Am J Cardiol** 1990 Mar 1;65(9):567–76

Infective perivalvular abscess of the aortic ring: echocardiographic features and clinical course. Byrd BF 3d, et al. **Am J Cardiol** 1990 Jul 1;66(1):102–5

Cardiac involvement in systemic lupus erythematosus detected by echocardiography. Crozier IG, et al. **Am J Cardiol** 1990 May 1;65(16):1145–8

Impact of age on echocardiographic left ventricular mass in a healthy population (the Framingham Study). Dannenberg AL, et al. **Am J Cardiol** 1989 Nov 1; 64(16):1066–8

Distension of the oblique pericardial sinus in tamponade due to loculated posterior pericardial effusion. D'Cruz IA, et al. **Am J Cardiol** 1990 Jun 15;65(22):1520–1

Measurement of intracardiac dimensions and structures in normal young adult subjects by transesophageal echocardiography. Drexler M, et al. **Am J Cardiol** 1990 Jun 15;65(22):1491–6

Two-dimensional and Doppler echocardiographic and pathologic characteristics of the infantile Marfan syndrome. Geva T, et al. **Am J Cardiol** 1990 May 15;65(18):1230–7

Transesophageal echocardiographic guidance of transcatheter closure of atrial septal defect. Hellenbrand WE, et al. **Am J Cardiol** 1990 Jul 15;66(2):207–13

Combined use of transesophageal echocardiography and endocardial mapping to localize the site of origin of ectopic atrial tachycardia. Kay GN, et al. **Am J Cardiol** 1990 May 15;65(18):1284–6

Pulmonary venous flow determined by Doppler echocardiography in mitral stenosis. Keren G, et al. **Am J Cardiol** 1990 Jan 15;65(3):246–9

Hemodynamic and echocardiographic assessment of the effects of diltiazem during transient occlusion of the left anterior descending coronary artery during percutaneous transluminal coronary angioplasty. Kern MJ, et al. **Am J Cardiol** 1989 Oct 15;64(14):849–55

Two-dimensional echocardiography and Doppler findings in cerebral arteriovenous malformations [letter; comment] Kessler RM, et al. **Am J Cardiol** 1990 Apr 15;65(15):1050 Comment on: Am J Cardiol 1989 Jul 15;64(3):252–4.

Echocardiographic detection and clinical significance of left atrial vegetations in active infective endocarditis. Kim JH, et al. **Am J Cardiol** 1989 Oct 15;64(14):950–2

Preparticipation echocardiographic screening for cardiovascular disease in a large, predominantly black population of collegiate athletes. Lewis JF, et al. **Am J Cardiol** 1989 Nov 1;64(16):1029–33

Comparison of contrast angiography and two-dimensional echocardiography for the evaluation of left ventricular regional wall motion abnormalities after acute myocardial infarction. Lundgren C, et al. **Am J Cardiol** 1990 May 1; 65(16):1071–7

Usefulness of esophageal pill electrode atrial pacing with quantitative two-dimensional echocardiography for diagnosing coronary artery disease. Matthews RV, et al. **Am J Cardiol** 1989 Oct 1;64(12):730–5

Echocardiographic detection of pericardiocentesis-induced subepicardial and intramyocardial hematoma. Meliones JN, et al. **Am J Cardiol** 1989 Oct 1;64(12):820–1

Platelet infusion-related echocardiographic contrast. Monsuez JJ, et al. **Am J Cardiol** 1990 Jul 15;66(2):244

Echocardiographic evaluation of segmental wall motion early and late after thrombolytic therapy in acute myocardial infarction: the Western Washington Tissue Plasminogen Activator Emergency Room Trial. Otto CM, et al. **Am J Cardiol** 1990 Jan 15;65(3):132–8

Usefulness of two-dimensional echocardiography for immediate detection of myocardial ischemia in the emergency room. Peels CH, et al. **Am J Cardiol** 1990 Mar 15;65(11):687–91

Echocardiographic assessment of the left ventricle of endurance athletes just before and after exercise. Percy RF, et al. **Am J Cardiol** 1990 May 1;65(16):1140–4

Comparison with radionuclide angiography of two new geometric and four nongeometric models for echocardiographic estimation of left ventricular ejection fraction using segmental wall motion scoring. Rifkin RD, et al. **Am J Cardiol** 1990 Jun 15;65(22):1485–90

The echocardiographic diseases [editorial] Roberts WC. **Am J Cardiol** 1989 Nov 1;64(16):1084

Association of echocardiographic left ventricular mass with body size, blood pressure and physical activity (the Framingham Study). Savage DD, et al. **Am J Cardiol** 1990 Feb 1;65(5):371–6

Upright bicycle exercise echocardiography after coronary artery bypass grafting. Sawada SG, et al. **Am J Cardiol** 1989 Nov 15;64(18):1123–9

Ultrasonic debridement of the aortic valve with six-month echocardiographic follow-up. Scott WJ, et al. **Am J Cardiol** 1989 Nov 15;64(18):1206–9

Diagnosis of left ventricular thrombi by magnetic resonance imaging and comparison with angiocardiography, computed tomography and echocardiography. Sechtem U, et al. **Am J Cardiol** 1989 Nov 15;64(18):1195–9

Differential sensitivity of the RV6:RV5 voltage ratio by pathogenesis of left ventricular hypertrophy and diagnostic cutpoint. Spodick DH, et al. **Am J Cardiol** 1989 Oct 1; 64(12):817–9

Intraoperative demonstration of coronary collateral flow using myocardial contrast two-dimensional echocardiography. Spotnitz WD, et al. **Am J Cardiol** 1990 May 15;65(18):1259–61

Diagnostic role of intraoperative epicardial echocardiography following complications of mitral valve replacement with the Björk-Shiley prosthetic valve. Tanaka M, et al. **Am J Cardiol** 1989 Dec 1;64(19):1402–4

Decision analysis concerning the application of echocardiography to the diagnosis and treatment of mural thrombi after anterior wall acute myocardial infarction. Weintraub WS, et al. **Am J Cardiol** 1989 Oct 1; 64(12):708–16

Clinical experience with fetal echocardiography. Wheller JJ, et al. **Am J Dis Child** 1990 Jan;144(1):49–53

Genetic and environmental influences on echocardiographically determined left ventricular mass in black twins. Harshfield GA, et al. **Am J Hypertens** 1990 Jul;3(7):538–43

Echo-Doppler assessment of left ventricular filling in borderline hypertension. Marabotti C, et al. **Am J Hypertens** 1989 Dec;2(12 Pt 1):891–7

Left ventricular structural changes in young men at increased risk of developing essential hypertension. Assessment by echocardiography. Nielsen JR, et al. **Am J Hypertens** 1989 Dec;2(12 Pt 1):885–90

Ambulatory blood pressure monitoring and echocardiographic left ventricular wall thickness and mass. Prisant LM, et al. **Am J Hypertens** 1990 Feb;3(2):81–9

Mitral valve prolapse: is echocardiography yielding too little or too much to the practicing physician? Coghlan HC. **Am J Med** 1989 Oct;87(4):367–70

Utility of echocardiography in patients with suspected mitral valve prolapse. Hershman WY, et al. **Am J Med** 1989 Oct; 87(4):371–6

Assessment of myocardial perfusion with contrast two-dimensional echocardiography. Kaul S. **Am J Med Sci** 1990 Feb;299(2):113–30 (69 ref.)

Maternal hemodynamic effects of uterine contractions by M-mode and pulsed-Doppler echocardiography. Lee W, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):974–7

Evaluation of the human fetal cardiac size and function. Veille JC, et al. **Am J Perinatol** 1990 Jan;7(1):54–9

Contrast echocardiography: effects of microbubbles on coronary blood flow and left ventricular hemodynamics. Silverman PR, et al. **Am J Physiol Imaging** 1989;4(4):158–64

Preoperative and intraoperative echocardiography to detect right-to-left shunt in patients undergoing neurosurgical procedures in the sitting position. Black S, et al. **Anesthesiology** 1990 Mar;72(3):436–8

Failure of preoperative echo testing to prevent paradoxical air embolism: report of two cases. Cucchiara RF, et al. **Anesthesiology** 1989 Oct;71(4):604–7

Severe dynamic left ventricular outflow tract obstruction following aortic valve replacement diagnosed by intraoperative echocardiography. Cutrone F, et al. **Anesthesiology** 1990 Mar;72(3):563–6

Idiopathic hypertrophic subaortic stenosis and ischemic mitral regurgitation: the value of intraoperative transesophageal echocardiography and Doppler color flow imaging in guiding operative therapy. Stanley TE 3d, et al. **Anesthesiology** 1990 Jun;72(6):1083–5

Echocardiographic score versus wall motion index for risk stratification after acute myocardial infarction. Kinney EL, et al. **Angiology** 1990 Feb;41(2):112–7

The emerging role of echocardiography in the emergency department. Hauser AM. **Ann Emerg Med** 1989 Dec; 18(12):1298–303

Principles of emergency ultrasound and echocardiography. Plummer D. **Ann Emerg Med** 1989 Dec;18(12):1291–7 (54 ref.)

Antibiotic prophylaxis and regurgitant murmurs [letter; comment] Bayer R. **Ann Intern Med** 1990 Jan 15; 112(2):148–9 Comment on: Ann Intern Med 1989 Sep 15;111(6):466–72.

Echocardiographic diagnosis and surgical treatment of postpartum pulmonary embolism. Rosenberg JM, et al. **Ann Thorac Surg** 1990 Apr;49(4):667–9

Familial amyloidotic polyneuropathy in northern Sweden. A cross-sectional and longitudinal study of cardiac function with echocardiography. Olofsson BO, et al. **Arctic Med Res** 1988;47 Suppl 1:423–5

Two dimensional echocardiography and left ventriculography in cardiac sarcoidosis. Bower SP, et al. **Aust N Z J Med** 1989 Dec;19(6):724–6

Fetal echocardiography in the diagnosis of congenital heart disease. Mellick JD, et al. **Aust Paediatr J** 1989 Dec; 25(6):356–60 (26 ref.)

In vivo imaging of myocardial perfusion by contrast echocardiography. Rovai D, et al. **Bibl Cardiol** 1989; (44):177–86; discussion 186–7 (31 ref.)

The great simulator; spectrum of left atrial myxoma: case report. Arrieta F. **Bol Asoc Med P R** 1989 Nov; 81(11):438–43

Unusual and intraoperative epicardial echocardiographic features of a papillary tumour of the aortic valve. Lewis NP, et al. **Br Heart J** 1989 Dec;62(6):470–4

Cross sectional echocardiographic identification of hypoplastic left heart syndrome and differentiation from other causes of right ventricular overload. Ludman P, et al. **Br Heart J** 1990 Jun;63(6):355–61

Quantitative effects of speckle reduction on cross sectional echocardiographic images. Massay RJ, et al. **Br Heart J** 1989 Oct;62(4):298–304

Cardiac involvement in Churg-Strauss syndrome shown by echocardiography. Morgan JM, et al. **Br Heart J** 1989 Dec; 62(6):462–6

Changing role of non-invasive investigation in the preoperative assessment of congenital heart disease: a nine year experience. Sreeram N, et al. **Br Heart J** 1990 Jun; 63(6):345–9

Enhanced morphological diagnosis in infective endocarditis by transoesophageal echocardiography. Taams MA, et al. **Br Heart J** 1990 Feb;63(2):109–13

Estimation of left ventricular volume and ejection fraction by two-dimensional transoesophageal echocardiography: comparison of short axis imaging and simultaneous radionuclide angiography. Clements FM, et al. **Br J Anaesth** 1990 Mar;64(3):331–6

Mitral annulus calcification. Morrison WL, et al.

Br J Clin Pract 1990 May;44(5):204–5
Fetal diaphragmatic hernia: the value of fetal echocardiography in the prediction of postnatal outcome. Crawford DC, et al. Br J Obstet Gynaecol 1989 Jun; 96(6):705–10
A comparison of electrocardiographic and echocardiographic abnormalities in subarachnoid hemorrhage. Davies KR, et al. Can J Anaesth 1990 May; 37(4 Pt 2):S25
Detection of early myocardial tissue changes in acute canine myocardial infarction by ultrasonic tissue characterization methods. Tak T, et al. Can J Cardiol 1989 Nov–Dec; 5(8):408–12
Echocardiographic evaluation of prosthetic cardiac valves. Mahan EF 3d, et al. Cardiol Clin 1990 May;8(2):369–76 (50 ref.)
Changes of the degree of hypertrophy in hypertrophic obstructive cardiomyopathy under medical and surgical treatment. Curtius JM, et al. Cardiology 1989;76(4):255–63 (33 ref.)
Echocardiography and pathology of left ventricular "false tendons". Abdulla AK, et al. Chest 1990 Jul;98(1):129–32
Endomyocardial invasion by esophageal carcinoma. Demonstration by echocardiography. Brodell GK, et al. Chest 1989 Oct;96(4):934–5
Echocardiographic diagnosis of right atrial tamponade. Chamoun G, et al. Chest 1990 Apr;97(4):1012–4
Perforated aneurysm of the anterior mitral valve. A Doppler and two-dimensional echocardiographic report. Chua SO, et al. Chest 1990 Mar;97(3):753–4
P-wave configuration as an indicator of echocardiographic indices of cardiac structure and function in normotensive adolescents. Graettinger WF, et al. Chest 1990 Apr; 97(4):896–900
Echocardiographic observations in survivors of acute electrical injury. Homma S, et al. Chest 1990 Jan; 97(1):103–5
Intrapulmonary vascular dilatations (IPVD) in liver transplant candidates. Screening by two-dimensional contrast-enhanced echocardiography [see comments] Krowka MJ, et al. Chest 1990 May;97(5):1165–70 Comment in: Chest 1990 May;97(5):1028–30.
Immediate echocardiography in the management of acute respiratory exacerbations of cardiopulmonary disease. A prospective study. Kudenchuk PJ, et al. Chest 1990 Apr; 97(4):782–7
Cross-sectional echocardiographic characterization of atelectatic lung segments. Differentiation from extracardiac tumors. Mann DL, et al. Chest 1990 Feb;97(2):404–6
A case of delayed postoperative cardiac tamponade with unusual echocardiographic findings. Otto CM, et al. Chest 1990 Apr;97(4):1003–4
Utility of echocardiography in AIDS [letter] Romeu J, et al. Chest 1990 Sep;98(3):775
Application of two-dimensional echocardiography in location of balloon of the Swan-Ganz catheter. Wang XF, et al. Chin Med J [Engl] 1990 Feb;103(2):117–24
Prognostic importance of dipyridamole-echocardiography test [letter; comment] Gerson MC. Circulation 1990 Mar; 81(3):1157–8 Comment on: Circulation 1989 Sep;80(3):450–7.
Doppler-derived rate of left ventricular pressure rise. Its correlation with the postoperative left ventricular function in mitral regurgitation. Pai RG, et al. Circulation 1990 Aug; 82(2):514–20
Usefulness of high-dose dipyridamole echocardiography test in coronary angioplasty. Picano E, et al. Circulation 1989 Oct;80(4):807–15
Natural history of left ventricular size and function after acute myocardial infarction. Assessment and prediction by echocardiographic endocardial surface mapping. Picard MH, et al. Circulation 1990 Aug;82(2):484–94
Two-dimensional echocardiographic determination of ventricular volumes in the fetal heart. Validation studies in fetal lambs. Schmidt KG, et al. Circulation 1990 Jan; 81(1):325–33
Noninvasive assessment of myocardial composition and function in the hypertrophied heart. Skorton DJ. Circulation 1989 Oct;80(4):1095–7 (30 ref.)
Restrictive diastolic abnormalities identified by Doppler echocardiography in patients with thalassemia major. Spirito P, et al. Circulation 1990 Jul;82(1):88–94
Determinants of left ventricular hypertrophy in patients with aortic stenosis. Salcedo EE, et al. Cleve Clin J Med 1989 Sep;56(6):590–6
A mechanism for the development of fixed primary (essential) hypertension: insights from population-based studies using echocardiography. Savage DD, et al. Clin Cardiol 1989 Dec;12(12 Suppl 4):IV23–9
Value of echocardiographic and ambulatory blood pressure monitoring in hypertension. Mancia G, et al. Clin Exp Hypertens [A] 1989;11(5–6):869–86 (34 ref.)
Fetal echocardiography—four years experience in Bristol. Cooke SG, et al. Clin Radiol 1989 Nov;40(6):568–72
Diagnostic reliability of M-mode echocardiography for detecting mitral valve prolapse in 50 consecutive panic patients. Dager SR, et al. Compr Psychiatry 1989 Sep–Oct; 30(5):369–75
Echocardiographically detected left ventricular impairment after myocardial infarction is accompanied by latent complex arrhythmias. Budaj A, et al. Cor Vasa 1989; 31(4):286–93
Cardiac hypertrophy in hypertension. Cífková R, et al. Cor Vasa 1990;32(1):3–12
Determinants of left ventricular hypertrophy in arterial hypertension. Heinemann G, et al. Cor Vasa 1990; 32(1):19–25
Computer-assisted two-dimensional echocardiography in preoperative evaluation of left ventricular function in patients with aortic valve disease. Laucevičius A, et al. Cor Vasa 1989;31(4):272–80
Patients with essential hypertension [editorial] Widimský J. Cor Vasa 1990;32(1):1–2
New two-dimensional, echocardiographically directed pericardiocentesis in cardiac tamponade. Hanaki Y, et al. Crit Care Med 1990 Jul;18(7):750–3
Relationship of bioimpedance to thermodilution and echocardiographic measurements of cardiac function. Spinale FG, et al. Crit Care Med 1990 Apr;18(4):414–8
M-mode echocardiography in patients with severe congestive heart failure. A subgroup analysis in the Cooperative North Scandinavian Enalapril Survival Study (CONSENSUS). Eriksson SV, et al. Drugs 1990;39 Suppl 4:43–8; discussion 53–4
The European Cooperative Study on the clinical significance of right heart thrombi. European Working Group on Echocardiography. Eur Heart J 1989 Dec;10(12):1046–59
Recognition of residual ventricular septal defect by intraoperative contrast echocardiography. Gussenhoven EJ, et al. Eur Heart J 1989 Sep;10(9):801–5
New bundle branch block after coronary artery bypass grafting—evaluation by CK-MB isoenzyme analysis and transoesophageal echocardiography. Hake U, et al. Eur Heart J 1990 Jan;11(1):59–64
Morphological quantification and differentiation of left ventricular hypertrophy in hypertrophic cardiomyopathy and hypertensive heart disease. A two dimensional echocardiographic study. Keller H, et al. Eur Heart J 1990 Jan;11(1):65–74
Two-dimensional echocardiography in arrhythmogenic right ventricular dysplasia. Kisslo J. Eur Heart J 1989 Sep;10 Suppl D:22–6
Exercise testing and dipyridamole echocardiography test before and 48 h after successful coronary angioplasty: prognostic implications. Massa D, et al. Eur Heart J 1989 Dec;10 Suppl G:13–7
Echocardiography and cerebral computed tomography in chronic atrial fibrillation. Petersen P, et al. Eur Heart J 1989 Dec;10(12):1101–4
Haemodynamic alterations during ischaemia induced by dobutamine stress testing. Piérard LA, et al. Eur Heart J 1989 Sep;10(9):783–90
Relevance of subtle echocardiographic findings in the early diagnosis of the concealed form of right ventricular dysplasia. Scognamiglio R, et al. Eur Heart J 1989 Sep; 10 Suppl D:27–8
Detection of perioperative myocardial ischaemia, with special emphasis on transoesophageal echocardiography. van Wezel HB, et al. Eur Heart J 1989 Dec;10 Suppl H:33–7
Acute type-A dissection of the aorta: which diagnostic modes remain for surgical indication? Laas J, et al. Eur J Cardiothorac Surg 1987;1(3):169–72
Echocardiographic evaluation of mitral valve prolapse. Hershman WY, et al. Hosp Pract [Off] 1989 Oct 30; 24(10A):93–5; 98–100
Echocardiographic and electrocardiographic correlation in cases of congestive cardiomyopathy. Samdarshi TE, et al. Indian Heart J 1989 Jul-Aug;41(4):252–5
An echo-cardiographic (M-mode & 2D) analysis of thalassaemia major. Senior R, et al. Indian Heart J 1990 Jan-Feb;42(1):73–6
Ultrasonography in pericardial effusion. Dusaj IS. Indian J Chest Dis Allied Sci 1989 Apr-Jun;31(2):113–9
An evaluation of cardiac function in malnourished children by non-invasive methods. Singh GR, et al. Indian Pediatr 1989 Sep;26(9):875–81
New echocardiographic and angiographic methods for right atrial volume determination: in vitro validation and in vivo results. Lambertz H, et al. Int J Card Imaging 1989; 5(1):39–51
Intraoperative sonographic measurements of the internal mammary artery as a coronary bypass conduit. Likungu J, et al. Int J Card Imaging 1989;5(1):33–7
Correlation among radiologic, echocardiographic indices and self paced-exercise capacity in heart failure. Ajayi AA, et al. Int J Cardiol 1990 Apr;27(1):135–7
The accuracy of fetal echocardiography in the diagnosis of congenital heart disease. Allan LD, et al. Int J Cardiol 1989 Dec;25(3):279–88
Cross-sectional echocardiography in the diagnosis of atrioventricular septal defect. Cabrera A, et al. Int J Cardiol 1990 Jul;28(1):19–23
Prediction of cardiac events after uncomplicated myocardial infarction by cross-sectional echocardiography during transesophageal atrial pacing. Iliceto S, et al. Int J Cardiol 1990 Jul;28(1):95–103
Relationship between heart rate and rhythm, and cardiac performance assessed in the human fetus in utero. Koyanagi T, et al. Int J Cardiol 1990 Aug;28(2):163–71
Cardiac abnormalities in systemic lupus erythematosus: a prospective M-mode, cross-sectional and Doppler echocardiographic study. Leung WH, et al. Int J Cardiol 1990 Jun;27(3):367–75
Congenital left atrial aneurysms: clinical characteristics and cross-sectional echocardiographic features. Mohan JC, et al. Int J Cardiol 1990 Mar;26(3):279–83
Cross-sectional echocardiographic diagnosis of discrete subaortic stenosis, ruptured congenital aneurysm of the right sinus of Valsalva, unruptured aneurysm of non-coronary sinus and a rudimentary left aortic leaflet. Mohan JC. Int J Cardiol 1990 Jul;28(1):122–5
Intermittent to-and-fro murmur in cardiac pseudoaneurysm: Doppler echocardiographic findings. Turgeman Y, et al. Int J Cardiol 1990 Mar;26(3):376–7
An echocardiographic assessment of asymptomatic elderly women with radiological cardiac enlargement. Woo J, et al. Int J Cardiol 1990 May;27(2):245–52
Tetralogy of Fallot with absent pulmonary valve detected by fetal echocardiography. Ohba T, et al. Int J Gynaecol Obstet 1990 May;32(1):71–4
Specific features of left ventricular hypertrophy in hypertensive obese women. An echocardiographic study. Lusiani L, et al. Int J Obes 1989;13(6):809–16
Coronary arteries in physiological hypertrophy: echocardiographic evidence of increased proximal size in elite athletes. Pelliccia A, et al. Int J Sports Med 1990 Apr;11(2):120–6
Surgical removal of echocardiographically detected multiple pedunculated and mobile left ventricular thrombi in acute myocardial infarction [see comments] Mager A, et al. Isr J Med Sci 1989 Nov;25(11):639–41 Comment in: Isr J Med Sci 1989 Nov;25(11):610–1.
Improvement in rest and exercise-induced wall motion abnormalities after coronary angioplasty: an exercise echocardiographic study [see comments] Broderick T, et al. J Am Coll Cardiol 1990 Mar 1;15(3):591–9 Comment in: J Am Coll Cardiol 1990 Mar 1;15(3):600–1.
Augmentation of regional function in nonischemic myocardium during coronary occlusion measured with two-dimensional echocardiography. Buda AJ, et al. J Am Coll Cardiol 1990 Jul;16(1):175–80
Assessment of regional myocardial perfusion by contrast echocardiography. II. Detection of changes in transmural and subendocardial perfusion during dipyridamole-induced hyperemia in a model of critical coronary stenosis. Cheirif J, et al. J Am Coll Cardiol 1989 Nov 15;14(6):1555–65
Value of two-dimensional echocardiography in selecting patients and balloon sizes for percutaneous balloon mitral valvuloplasty. Chen CG, et al. J Am Coll Cardiol 1989 Dec;14(7):1651–8
Subcostal two-dimensional echocardiographic identification of anomalous attachment of septum primum in patients with left atrioventricular valve underdevelopment. Chin AJ, et al. J Am Coll Cardiol 1990 Mar 1;15(3):678–81
Can two-dimensional echocardiography and Doppler color flow mapping identify the need for tricuspid valve repair? [see comments] Chopra HK, et al. J Am Coll Cardiol 1989 Nov 1;14(5):1266–74 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1275–7.
Comparison of coronary hemodynamics in patients with internal mammary artery and saphenous vein coronary artery bypass grafts: a noninvasive approach using combined two-dimensional and Doppler echocardiography [see comments] Fusejima K, et al. J Am Coll Cardiol 1990 Jan;15(1):131–9 Comment in: J Am Coll Cardiol 1990 Jan;15(1):140–2.
Exercise testing in women [comment] Heinsimer JA, et al. J Am Coll Cardiol 1989 Nov 15;14(6):1448–9 Comment on: J Am Coll Cardiol 1989 Nov 15;14(6):1440–7.
Detection of coronary artery abnormalities in tetralogy of Fallot by two-dimensional echocardiography. Jureidini SB, et al. J Am Coll Cardiol 1989 Oct;14(4):960–7
Exercise echocardiography after coronary angioplasty: expanding applications [comment] Labovitz AJ. J Am Coll Cardiol 1990 Mar 1;15(3):600–1 Comment on: J Am Coll Cardiol 1990 Mar 1;15(3):591–9.
Inversion of the normal interatrial septum convexity in acute myocardial infarction: incidence, clinical relevance and prognostic significance [see comments] López-Sendón J, et al. J Am Coll Cardiol 1990 Mar 15;15(4):801–5 Comment in: J Am Coll Cardiol 1990 Mar 15;15(4):806–7.
Reproducibility of two-dimensional exercise echocardiography. Oberman A, et al. J Am Coll Cardiol 1989 Oct;14(4):923–8
Identification of viable myocardium by echocardiography during dobutamine infusion in patients with myocardial infarction after thrombolytic therapy: comparison with positron emission tomography. Piérard LA, et al. J Am Coll Cardiol 1990 Apr;15(5):1021–31
Clinical competence in adult echocardiography. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. Popp RL, et al. J Am Coll Cardiol 1990 Jun;15(7):1465–8
Malaligned outlet septum with subpulmonary ventricular septal defect and abnormal ventriculoarterial connection: a morphologic spectrum defined echocardiographically [see comments] Roberson DA, et al. J Am Coll Cardiol 1990 Aug;16(2):459–68 Comment in: J Am Coll Cardiol 1990 Aug;16(2):469–70.
Ebstein's anomaly: echocardiographic and clinical features in the fetus and neonate. Roberson DA, et al. J Am Coll Cardiol 1989 Nov 1;14(5):1300–7
Determination of aortic valve area by two-dimensional and Doppler echocardiography in patients with normal and stenotic bioprosthetic valves [see comments] Rothbart RM,

et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):817–24 Comment in: J Am Coll Cardiol 1990 Mar 15;15(4):825–6.

Exercise echocardiographic detection of coronary artery disease in women [see comments] Sawada SG, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1440–7 Comment in: J Am Coll Cardiol 1989 Nov 15;14(6):1448–9.

Echocardiographic spectrum of double inlet ventricle: evaluation of the interventricular communication. Shiraishi H, et al. **J Am Coll Cardiol** 1990 May;15(6):1401–8

Diagnosis of coronary artery fistula by two-dimensional echocardiography, pulsed Doppler ultrasound and color flow imaging. Velvis H, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):968–76

Echocardiographic analysis of regional left ventricular wall motion in normal children and neonates. Vogel M, et al. **J Am Coll Cardiol** 1990 May;15(6):1409–16

Echocardiographic analysis of regional left ventricular wall motion in children after the arterial switch operation for complete transposition of the great arteries. Vogel M, et al. **J Am Coll Cardiol** 1990 May;15(6):1417–23

Echocardiographic recognition of Chagas' disease and endomyocardial fibrosis. Acquatella H, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):60–8 (13 ref.)

Credentialing of the cardiac sonographer: the need for unification. Adams D, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):100–2

Sonographer's response: are we practicing medicine without a license? Adams D. **J Am Soc Echocardiogr** 1988 May–Jun; 1(3):231–4

Determination of right ventricular volume by two-dimensional echocardiography with a crescentic model. Aebischer NM, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):110–8

Pattern-recognition echocardiography: problems in education for a rapidly growing profession. Alexander NC. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):291–2

Viewpoint on the echocardiographic presentations at the American College of Cardiology Annual Scientific Sessions. Armstrong WF. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):308–10

Evaluation of reperfusion hyperemia with myocardial contrast echocardiography. Armstrong WF, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):322–32

Echocardiography at the American Heart Association Scientific Sessions: an editorial perspective. Armstrong WF. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):170–2

Two-dimensional echocardiographic analysis of the dynamic geometry of the left ventricle: the basis for an improved model of wall motion [see comments] Assmann PE, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):393–405 Comment in: J Am Soc Echocardiogr 1989 Sep–Oct;2(5):372–4.

Reliability of M-mode, two-dimensional and Doppler echocardiography in diagnosing a flail mitral valve leaflet. Avgeropoulou CC, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):433–45

Echocardiographic diagnosis of pneumopericardium and hydropneumopericardium. Bedotto JB, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):359–61

Two-dimensional echocardiographic features of complete transposition of the great arteries with posterior aorta. Béland MJ, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec; 1(6):463–5

Prospective validation of detection and quantitative assessment of chronic aortic regurgitation by a combined echocardiographic and Doppler method. Borrás X, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):422–9

Regional wall motion index for infarct and noninfarct regions after reperfusion in acute myocardial infarction: comparison with global wall motion index. Bourdillon PD, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):398–407

Echocardiography and cardiac transplantation: a literature review and practical approach. Brockway BA. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):425–30 (12 ref.)

Comparison of regional and global left ventricular function by serial echocardiograms after reperfusion in acute myocardial infarction. Broderick TM, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):315–23

Coronary artery abnormalities in children. Caldwell RL, et al. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):259–68 (26 ref.)

Status of cardiovascular education. Carney DK. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):466–9

Prenatal detection of restrictive foramen ovale. Chobot V, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):15–9

Isolated thickening of one aortic cusp: preferential thickening of the noncoronary cusp. Cujec B, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):430–2

Aortic dissection and rupture that produce right ventricular perforation: detection by echocardiography and color flow mapping. Davies NJ, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):140–4

Differences in the shape of the normal, cardiomyopathic, and volume overloaded human left ventricle. D'Cruz IA, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):408–14

A computerized system that uses high-frequency data for analysis of myocardial contrast echocardiograms. de Jong N, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):99–105

Contrast echocardiographic detection of a right-to-left shunting patent ductus arteriosus. Dick C, et al. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):198–201

Assessing the left ventricle with two-dimensional echocardiography. Feigenbaum H. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):305–7

Digital recording, display, and storage of echocardiograms. Feigenbaum H. **J Am Soc Echocardiogr** 1988 Sep–Oct; 1(5):378–83

Manpower problems in echocardiography [editorial] Feigenbaum H. **J Am Soc Echocardiogr** 1988 Nov–Dec; 1(6):391–2

Exercise echocardiography. Feigenbaum H. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):161–6

Paraesophageal hernia may prevent cardiac imaging by transesophageal echocardiography. Freedberg RS, et al. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):202–3

A second-generation computer-based edge detection algorithm for short-axis, two-dimensional echocardiographic images: accuracy and improvement in interobserver variability. Geiser EA, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):79–90

Clinical validation of an edge detection algorithm for two-dimensional echocardiographic short-axis images. Geiser EA, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec; 1(6):410–21

A patient with right and left atrial membranes: the role of transesophageal echocardiography and magnetic resonance imaging in diagnosis. Goldfarb A, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):350–3

Mitral valve prolapse and stroke: echocardiographic evidence for a missing causative link. Gross CM, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):94–7

Septal bounce, vena cava plethora, and pericardial adhesion: informative two-dimensional echocardiographic signs in the diagnosis of pericardial constriction. Himelman RB, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):333–40

Predictive value of two-dimensional echocardiographic and hemodynamic measurements on admission with acute myocardial infarction. Jaarsma W, et al. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):187–93

Method for the quantitation of myocardial perfusion during myocardial contrast two-dimensional echocardiography. Jayaweera AR, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):91–8

Inferior vena cava stenosis in scimitar syndrome: a case report. Jimenez M, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):152–4

Dipyridamole echocardiography in the detection of vulnerable myocardium in the early postinfarction period. Josephson RA, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct; 2(5):324–30

Topographic correspondence of contrast echocardiographic perfusion mapping and myocardial infarct extent after varying durations of coronary occlusion. Kemper A, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):104–13

Interpretation of echocardiographic data: are physicians and sonographers violating the law? Kisslo J, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):95–9

Crises in echocardiography. Kisslo J. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):235–9

Two-dimensional and Doppler echocardiographic assessment of infiltrative cardiomyopathy. Klein AL, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):48–59 (75 ref.)

Use of transesophageal echocardiography for improving detection of valvular vegetations in subacute bacterial endocarditis. Klodas E, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):386–9

Echocardiographic and hemodynamic characteristics of atrial septal defects created by percutaneous valvuloplasty. Kronzon I, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb; 3(1):64–71

Myocardial perfusion studies by contrast echocardiography. Lichtenberg GS, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):170–6 (9 ref.)

Doppler atrial shunt flow patterns in patients with secundum atrial septal defect: determinants, limitations, and pitfalls. Lin FC, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr; 1(2):141–9

Ultrasound characterization of acoustic properties of acute intracardiac thrombi: studies in a new experimental model. McPherson DD, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):264–70

New insights into the pathophysiology of coronary arteries by epicardial high frequency echocardiography. McPherson DD, et al. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):284–95 (36 ref.)

Fetal echocardiography: a large clinical experience and follow-up. Martin GR, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):4–8

Tricuspid regurgitation in children: a pulsed Doppler, contrast echocardiographic and angiographic comparison. Martin GR, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug; 1(4):257–63

Cardiomyopathy in the young. Meyer RA. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):88–94 (9 ref.)

Guidelines for physician training in fetal echocardiography: recommendations of the Society of Pediatric Echocardiography Committee on Physician Training. Meyer RA, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb; 3(1):1–3

Echocardiography in Kawasaki disease. Meyer RA. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):269–75

Determination of right ventricular ejection fraction by two-dimensional echocardiographic single plane subtraction method. Mongkolsmai D, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):119–24

The sonographer's beginning guide to surgery for congenital heart disease. NeSmith J, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):384–7

Left ventricular dynamic geometry [comment] Nogueira EA. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):372–4 Comment on: J Am Soc Echocardiogr 1988 Nov–Dec;1(6):393–405.

Intracardiac myxomas: twenty-year echocardiographic experience with review of the literature. Nomeir AM, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):139–50 (34 ref.)

The case for echocardiography in acute myocardial infarction. Parisi AF. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):173–8 (22 ref.)

Progress in quantitative ultrasonic characterization of myocardium: from the laboratory to the bedside. Pérez JE, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):294–305 (69 ref.)

Doppler color flow mapping detection of ruptured sinus of Valsalva aneurysm. Peters P, et al. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):195–7

Comparison of echocardiography at peak exercise and after bicycle exercise in evaluation of patients with known or suspected coronary artery disease. Presti CF, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):119–26

Echocardiographic and Doppler assessment of hypertrophic cardiomyopathy. Rakowski H, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):31–47 (44 ref.)

Cyanotic disease in the fetus. Reed KL. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):9–14

The role of the cardiac sonographer in the evaluation of the heart transplant recipient. Reynolds T, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):431–8 (29 ref.)

Reference ranges of left ventricular cross-sectional echocardiographic measurements in adult men. Rijsterborgh H, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):415–8

False inferior pseudoaneurysm: two-dimensional and Doppler echocardiographic findings. Rosenfeld J, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):351–3

Quantitation of mitral stenosis. Ryan TJ. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):306–7

Evaluation of the coronary arteries with echocardiographic and Doppler techniques. Ryan TJ. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):252–3

Echocardiographic assessment of left ventricular thrombi. Ryan TJ. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):167–8

Paradoxical motion of the posterior left ventricular wall seen in healthy subjects in the upright position. Sasaki H, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):406–9

Recommendations for quantitation of the left ventricle by two-dimensional echocardiography. American Society of Echocardiography Committee on Standards, Subcommittee on Quantitation of Two-Dimensional Echocardiograms. Schiller NB, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):358–67 (26 ref.)

Echocardiographic diagnosis of bland thrombus on an aortic valve. Schrem S, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):271–2

Ventricular volume overload in the human fetus: observations from fetal echocardiography. Silverman NH, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):20–9

Ultrasound bioeffects and regulatory issues: an introduction for the echocardiographer. Skorton DJ, et al. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):240–51 (45 ref.)

Clinical potential of ultrasound tissue characterization in cardiomyopathies. Skorton DJ, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):69–77 (47 ref.)

Incomplete left atrial appendage ligation that simulates mitral regurgitation. Sullivan H, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):75–7

Traumatic left ventricular false aneurysm with significant regurgitation from left ventricular outflow tract to left atrium: delineation by two-dimensional and color flow Doppler echocardiography. Taliercio CP, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):354–8

Correlation between left ventricular risk area and clinical, electrocardiographic, hemodynamic, and angiographic variables during acute myocardial infarction. Touchstone DA, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr; 3(2):106–17

Cyclic variation of ultrasound backscatter in normal myocardium is view dependent: clinical studies with a real-time backscatter imaging system. Vandenberg BF, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):308–14

Two-dimensional echocardiographic and color flow Doppler detection of an unusual pulmonary venous anomaly: anomalous right pulmonary venous return to the right atrium by way of three separate orifices. Vermilion RP, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):135–9

Anatomy, histology, and pathology of the major epicardial coronary arteries relevant to echocardiographic imaging techniques. Waller BF. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):232–52 (71 ref.)

Accuracy of two-dimensional echocardiography in diagnosing left superior vena cava. Zellers TM, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):132–8

Echocardiographic detection of cardiac involvement in chronic renal failure. Achari V, et al. **J Assoc Physicians India** 1989 Jul;37(7):434–6

Clinical, haemodynamic and echocardiographic study in chronic cor pulmonale. Gupta S, et al.

J Assoc Physicians India 1989 Jun;37(6):373–6
Electrocardiographic left atrial enlargement—correlation with echo. Jose VJ, et al. J Assoc Physicians India 1989 Aug;37(8):497–9
An unusual case of right atrial myxoma. Loya YS, et al. J Assoc Physicians India 1989 Oct;37(10):666–8
Surgical treatment for myocardial bridge using intraoperative echocardiography. A report of two cases. Watanabe G, et al. J Cardiovasc Surg (Torino) 1989 Nov–Dec; 30(6):1009–12
Echocardiographic study of U wave inversion in the electrocardiograms of hypertensive patients. Twidale N, et al. J Electrocardiol 1989 Oct;22(4):365–71
Anatomic characteristics and valvular function of the transplanted heart: transthoracic versus transesophageal echocardiographic findings. Angermann CE, et al. J Heart Transplant 1990 Jul–Aug;9(4):331–8
Implantation of an external biventricular assist device: role of transesophageal two-dimensional echocardiography. Faggian G, et al. J Heart Transplant 1990 Jul–Aug; 9(4):441–3
Echocardiographic and Doppler evaluation of left ventricular hypertrophy and diastolic function in black and white hypertensive patients. Rittoo D, et al. J Hum Hypertens 1990 Apr;4(2):113–5
Correlations between M-mode markers of left ventricular hypertrophy and radionuclide angiographic indices of left ventricular diastolic function in mild to moderate hypertension. Granier P, et al. J Hypertens Suppl 1989 Dec; 7(6):S100–1
Comparability of echocardiography and chest X-ray following myocardial infarction. Alam M, et al. J Intern Med 1989 Sep;226(3):171–5
Echocardiographic identification of mitral valvular abnormalities in patients with mixed connective tissue disease. Leung WH, et al. J Rheumatol 1990 Apr; 17(4):485–8
Intraoperative transesophageal echocardiography in pediatric patients [letter] Kyo S, et al. J Thorac Cardiovasc Surg 1990 Feb;99(2):373–5
Effects of coronary revascularization on regional wall motion. An intraoperative two-dimensional echocardiographic study. Lazar HL, et al. J Thorac Cardiovasc Surg 1989 Oct;98(4):498–505
Invited letter concerning: intraoperative echocardiography [letter; comment] McConnell ME, et al. J Thorac Cardiovasc Surg 1989 Dec;98(6):1146–7 Comment on: J Thorac Cardiovasc Surg 1989 Jul;98(1):90–9; discussion 99–100.
Routine use of intraoperative epicardial echocardiography and Doppler color flow imaging to guide and evaluate repair of congenital heart lesions. A prospective study. Ungerleider RM, et al. J Thorac Cardiovasc Surg 1990 Aug; 100(2):297–309
Echocardiographic observation on changes of left ventricular structure and function in healthy elderly. Hu ZM, et al. J Tongji Med Univ 1989;9(2):121–4
Two-dimensional and Doppler echocardiographic features of coronary arteriovenous fistula. Report of three cases. Fang BR, et al. J Ultrasound Med 1990 Jan;9(1):39–43
Echocardiographic detection of aortic valve ring abscesses. Russo G, et al. J Ultrasound Med 1990 Jun;9(6):319–23
Fetal atrial fibrillation: in utero detection with real-time directed M-mode echocardiography. Baldi C, et al. JCU 1990 Mar–Apr;18(3):185–7
Quantitative two-dimensional echocardiographic assessment of left ventricular shape in ischemic heart disease. D'Cruz IA, et al. JCU 1989 Oct;17(8):569–72
Primary Budd-Chiari syndrome: demonstration by real-time two-dimensional Doppler echography. Sukigara M, et al. JCU 1989 Oct;17(8):615–21
Echocardiographic features of a giant congenital aneurysm of the right coronary artery. Zhang CC, et al. JCU 1988 Sep;16(7):502–5
Prognosis in hypertrophic cardiomyopathy—echocardiographic follow-up and histopathological study. Emoto R, et al. Jpn Circ J 1989 Sep;53(9):1031–44
Evaluation of cardiac tissue from two-dimensional echocardiogram: analysis of gray level and its distribution. Hishida H, et al. Jpn Circ J 1990 Mar;54(3):316–21
Computerized M-mode echocardiographic assessment of left ventricular diastolic function in patients with familial amyloid polyneuropathy. Hongo M, et al. Jpn Circ J 1990 Jan;54(1):32–42
Regional wall motion abnormality and its relation to myocardial histopathological change and clinical prognosis in dilated cardiomyopathy—usefulness of dobutamine loading echocardiographic study. Nakanishi M, et al. Jpn Circ J 1990 Mar;54(3):249–59
Clinical application of echocardiographic imaging to diagnosis of coronary artery disease. Uchiyama T, et al. Jpn Circ J 1990 Mar;54(3):309–15
Clinical and exercise echocardiographic findings in patients with mitral valve prolapse. Yokota Y, et al. Jpn Circ J 1990 Jan;54(1):62–70
Cardiac beri-beri. Report of a case with an echocardiographic study. Khowsathit P, et al. Jpn Heart J 1990 Mar;31(2):265–9
Usefulness of echocardiography in the prediction of early results of catheter balloon mitral valvuloplasty. Lin SL, et al. Jpn Heart J 1990 Mar;31(2):161–74
Two-dimensional contrast echocardiography in pulmonary arteriovenous fistula. Ozkutlu S, et al. Jpn Heart J 1989 May;30(3):425–30
Detection of right-sided endocarditis in children with congenital heart disease by two-dimensional echocardiography. Ozkutlu S, et al. Jpn Heart J 1990 Mar; 31(2):175–82
Tigers in the echocardiogram [letter; comment] Lancet 1990 Jun 9;335(8702):1412 Comment on: Lancet 1990 May 12;335(8698):1170.
Tasmanian tiger sign [letter] [see comments] Hendriks R, et al. Lancet 1990 May 12;335(8698):1170 Comment in: Lancet 1990 Jun 9;335(8702):1412.
The effects of captopril in severe congestive heart failure. An echocardiographic study. Drăgulescu SI, et al. Med Interne 1989 Apr–Jun;27(2):99–105
Prognostic implications of echocardiographically determined left ventricular mass in the Framingham Heart Study. Levy D, et al. N Engl J Med 1990 May 31;322(22):1561–6
Echocardiography (2). Popp RL. N Engl J Med 1990 Jul 19;323(3):165–72 (151 ref.)
Echocardiography (1). Popp RL. N Engl J Med 1990 Jul 12;323(2):101–9 (70 ref.)
Echocardiographic assessment of systolic function in dialysis patients. Tomson CR. Nephrol Dial Transplant 1990; 5(5):325–31 (87 ref.)
Isometric exercise testing and echocardiography at rest in aortic valve incompetence. Groundstroem K, et al. Nucl Med Commun 1990 Apr;11(4):279–87
First-trimester diagnosis of fetal congenital heart disease by transvaginal two-dimensional and Doppler echocardiography. Gembruch U, et al. Obstet Gynecol 1990 Mar;75(3 Pt 2):496–8
Cor triatriatum sinister: echocardiographic assessment. Casta A. P R Health Sci J 1989 Aug;8(2):263–4
Bacterial endocarditis in children: clinical and laboratory findings, and the role of echocardiography in its diagnosis and management. Sastroasmoro S, et al. Paediatr Indones 1989 Sep–Oct;29(9–10):188–98
Congenital polyvalvular disease in trisomy 18: echocardiographic diagnosis. Balderston SM, et al. Pediatr Cardiol 1990 Jul;11(3):138–42
Echo-Doppler assessment of cardiac status in conjoined (thoraco-omphalopagus) twins. Dev V, et al. Pediatr Cardiol 1990 Apr;11(2):91–2
Cardiovascular effects of hypertransfusion therapy in children with sickle cell anemia. Lester LA, et al. Pediatr Cardiol 1990 Jul;11(3):131–7
Disappearance of a cardiac rhabdomyoma complicating congenital mitral regurgitation as observed by serial two-dimensional echocardiography. Matsuoka Y, et al. Pediatr Cardiol 1990 Apr;11(2):98–101
Transposition of the great arteries with posterior aorta: detection by two-dimensional echocardiography. Miyake T, et al. Pediatr Cardiol 1990 Apr;11(2):102–4
Fetal echocardiographic diagnosis of congenital heart disease. Fyfe DA, et al. Pediatr Clin North Am 1990 Feb; 37(1):45–67 (60 ref.)
Doppler echocardiography. Role in emergency diagnosis of cardiac valve disease. Baron SB, et al. Postgrad Med 1990 May 1;87(6):85–8, 91–3, 96–8
Repeated echocardiography: essential in the management of Staphylococcus aureus endocarditis. O'Sullivan JJ, et al. Postgrad Med J 1990 Mar;66(773):227–8
Fetal two-dimensional Doppler echocardiography (colour flow mapping) and its place in prenatal diagnosis. Gembruch U, et al. Prenat Diagn 1989 Aug;9(8):535–47
Fetal echocardiography. Benaćerraf BR, et al. Radiol Clin North Am 1990 Jan;28(1):131–47
Value of two-dimensional echocardiography in the identification of pulmonary hypertension in chronic obstructive lung disease. Bertoli L, et al. Respiration 1989; 55(4):193–201
Two dimensional echocardiography and Doppler in the right ventricular infarction. García-Fernandez MA, et al. Rev Port Cardiol 1990 Mar;9(3):227–44 (133 ref.)
Assessment of left ventricular hypertrophy by electrocardiography, chest roentgenography and echocardiography, a review. Kristensen BO. Scand J Clin Lab Invest Suppl 1989;196:42–7 (5 ref.)
Optimal choice of prognostic variables with an application to cardiac monitoring using M-mode echocardiography. Puterman ML, et al. Stat Med 1990 Mar;9(3):273–86
Comparison of two-dimensional echocardiography and ultrafast cardiac computed tomography for evaluating intracardiac thrombi in cerebral ischemia. Love BB, et al. Stroke 1990 Jul;21(7):1033–8
Postoperative echocardiographic study of patients with symptomatic chronic aortic regurgitation. Chern MS, et al. Taiwan J Hsueh Hui Tsa Chih 1989 Nov–Dec; 88(11–12):1109–15
Automated determination of the magnitude and time delay ("phase") of the cardiac cycle dependent variation of myocardial ultrasonic integrated backscatter. Mohr GA, et al. Ultrason Imaging 1989 Oct;11(4):245–59
Detection of wall vibrations by means of cepstrum analysis. Nowicki A, et al. Ultrason Imaging 1989 Oct;11(4):273–82
IBR5: an optimal measurement of integrated backscatter and cyclic variation of integrated backscatter. Rhyne TL, et al. Ultrason Imaging 1990 Jul;12(3):189–204
Myocardial ultrasonic backscatter for characterization of ischemia and reperfusion: relationship to wall motion. Barzilai B, et al. Ultrasound Med Biol 1990;16(4):391–8
Validation of annular array technology [letter] Pini R, et al. Ultrasound Med Biol 1990;16(3):311–2
[Echocardiographic studies in patients with arterial hypertension and above-normal body weight (preliminary report)] Zhelev V, et al. Vutr Boles 1989;28(5):37–41 (Eng. Abstr.) (Bul)
[Diagnosis of patent ductus arteriosus by 2-d echocardiography] Chen S. Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1990 Feb; 18(1):20–2 (Chi)
[Echocardiography of Marfan's syndrome] Wang A, et al. Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1990 Feb; 18(1):33–4 (Chi)
[Significance of left atrial thrombus in prediction of systemic arterial embolization in rheumatic mitral valve disease: a two-dimensional echocardiographic study] Lin JL, et al. Taiwan I Hsueh Hui Tsa Chih 1989 Sep;88(9):955–60 (Chi)
[Follow-up of patients with valve prostheses using one- and two-dimensional echocardiography] Bělohlávek M, et al. Cas Lek Cesk 1989 Sep 15;128(38):1192–5 (Eng. Abstr.) (Cze)
[Use of the postural test in stress echocardiography] Dvořák I, et al. Cas Lek Cesk 1989 Sep 1;128(36):1125–8 (Eng. Abstr.) (Cze)
[Peroperative detection of embolizing material in the heart. The importance of peroperative transesophageal echocardiography] Kozáková M, et al. Cas Lek Cesk 1990 Mar 16;129(11):337–9 (Eng. Abstr.) (Cze)
[Can atrial septal defects be reliably diagnosed by echocardiography?] Marek J, et al. Cas Lek Cesk 1990 Apr 27;129(17):516–9 (Eng. Abstr.) (Cze)
[Echocardiographic findings after thrombolytic therapy in acute myocardial infarct] Toman J, et al. Cesk Fysiol 1989; 38(6):543–6 (Cze)
[Ultrasonic screening of the fetal heart] Skovránek J. Cesk Gynekol 1989 Jun;54(5):369–71 (Cze)
[Prenatal diagnosis of malformation of the heart using echocardiography] Povýšilová V, et al. Cesk Patol 1989 Aug;25(3):129–34 (Eng. Abstr.) (Cze)
[Echocardiographic diagnosis of total anomalous pulmonary venous return] First T, et al. Cesk Pediatr 1989 Sep; 44(9):525–8 (Eng. Abstr.) (Cze)
[Echocardiographic diagnosis of interrupted aortic arch in a group of 13 patients (children)] First T, et al. Cesk Pediatr 1990 Jan;45(1):12–5 (Eng. Abstr.) (Cze)
[Echocardiography in the diagnosis of a partial congenital defect of the left part of the pericardium] Marek J, et al. Cesk Pediatr 1989 Nov;44(11):681–2 (Cze)
[Echocardiographic orientation evaluation of the function of the left heart ventricle] Dvořák I, et al. Vnitr Lek 1989 Aug;35(8):752–7 (Eng. Abstr.) (Cze)
[Relation between echocardiographic indicators and beta 2-adrenergic receptors in essential hypertension during treatment with enalapril] Přecechtělová M, et al. Vnitr Lek 1989 Nov;35(11):1087–93 (Eng. Abstr.) (Cze)
[Combined echocardiographic and Doppler ultrasonic diagnosis of carotid bifurcation—reliability and error] Keski-Nisula L, et al. Duodecim 1989;105(21):1715–20 (Fin)
[Two-dimensional echocardiography during the acute phase of myocardial infarction. Diagnostic and prognostic value] Gibelin P, et al. Ann Cardiol Angeiol (Paris) 1989 Nov; 38(9):515–21 (Eng. Abstr.) (Fre)
[Value of echocardiography in aged patients with presumed idiopathic auricular fibrillation] Grand A, et al. Ann Cardiol Angeiol (Paris) 1990 Jan;39(1):7–12 (Eng. Abstr.) (Fre)
[Contribution of electrovectorcardiography in the diagnosis of hypertrophic cardiomyopathy. Comparative study with an echocardiographic score] Melacini P, et al. Ann Cardiol Angeiol (Paris) 1990 Apr;39(4):203–6 (Eng. Abstr.) (Fre)
[Comparison of vectorcardiography and echocardiography in the evaluation of the site and extent of necrosis in myocardial infarction without Q wave] Palmieri M, et al. Ann Cardiol Angeiol (Paris) 1990 Apr;39(4):195–8 (Eng. Abstr.) (Fre)
[Ultrasonic diagnosis of biventricular thrombus during the acute phase of myocardial infarction] Taupin JM, et al. Ann Cardiol Angeiol (Paris) 1989 Nov;38(9):545–7 (Eng. Abstr.) (Fre)
[Comparison of hemodynamic data obtained by right catheterization and transesophageal echocardiography] Baron JF, et al. Ann Fr Anesth Reanim 1989;8 Suppl:R101 (Fre)
[Thoracic peridural anesthesia combined with light general anesthesia: hemodynamic data and echocardiography] Baron JF, et al. Ann Fr Anesth Reanim 1989;8 Suppl:R102 (Fre)
[Evaluation by echocardiography of dipyridamole for prediction of cardiac complications after surgery of the abdominal aorta] Rey B, et al. Ann Fr Anesth Reanim 1989; 8 Suppl:R99 (Fre)
[Echocardiographic evaluation in real time of ischemia and filling problems during surgery] Saada M, et al. Ann Fr Anesth Reanim 1989;8 Suppl:R100 (Fre)
[Echocardiographic monitoring of the left ventricle in infants and children presenting the primary form of acute cardiac failure] Chantepie A, et al. Arch Fr Pediatr 1989 Nov; 46(9):649–53 (20 ref.) (Eng. Abstr.) (Fre)

[Endocarditis in an infant with a normal heart with only febrile manifestation (letter)] Druon D, et al. **Arch Fr Pediatr** 1990 Mar;47(3):227–8 (Fre)

[Value of echocardiography in the diagnosis of a complicated form of Kawasaki's disease] Allal J, et al. **Arch Mal Coeur** 1989 Jul–Aug;82(8):1443–9 (30 ref.) (Eng. Abstr.) (Fre)

[Difficulties in the echocardiographic diagnosis of false aneurysm of the left ventricle. Apropos of 2 cases] Anconina J, et al. **Arch Mal Coeur** 1989 Nov; 82(11):1899–901 (Eng. Abstr.) (Fre)

[Relationship between heart mass and semi–ambulatory pressure profiles] Balansard P, et al. **Arch Mal Coeur** 1989 Jul;82(7):1129–33 (Eng. Abstr.) (Fre)

[Giant leiomyoma of the esophagus detected by echocardiography and corroborated by x–ray computed tomography and surgery] Bensaid J, et al. **Arch Mal Coeur** 1990 Mar;83(3):419–23 (Eng. Abstr.) (Fre)

[Exercise echocardiography and study of the left ventricle in sportsmen during exertion] Brion R, et al. **Arch Mal Coeur** 1990 Feb;83(2):229–34 (Eng. Abstr.) (Fre)

[Comparison of magnetic resonance imaging, echocardiography and catheterization in the diagnosis of congenital heart diseases] Crochet D, et al. **Arch Mal Coeur** 1990 May;83(5):681–6 (Eng. Abstr.) (Fre)

[Prognostic value of two–dimensional echocardiography before aneurysmectomy in anterior aneurysm of the left ventricle] Danchin N, et al. **Arch Mal Coeur** 1990 Apr; 83(4):531–5 (Eng. Abstr.) (Fre)

[Mid–term echographic evaluation of systolic function after cardiac transplantation] Julien J, et al. **Arch Mal Coeur** 1990 Apr;83(4):495–500 (Eng. Abstr.) (Fre)

[Peripubertal longitudinal study by echocardiography of left heart development in a group of ice hockey players] Maingourd Y, et al. **Arch Mal Coeur** 1990 Mar;83(3):371–5 (Eng. Abstr.) (Fre)

[Surgical treatment of aortic dissection. Value of echocardiography and MRI for long–term follow–up] Ninet J, et al. **Arch Mal Coeur** 1990 Jun;83(7):953–7 (15 ref.) (Eng. Abstr.) (Fre)

[Echocardiography in selecting patients to undergo Carpentier's mitral valvuloplasty] Perinetti M, et al. **Arch Mal Coeur** 1990 Jan;83(1):53–61 (Eng. Abstr.) (Fre)

[Cardiac involvement in malignant non–Hodgkin's lymphoma] Grollier G, et al. **Presse Med** 1990 Apr 14; 19(15):715–8 (26 ref.) (Eng. Abstr.) (Fre)

[Two–dimensional echocardiography in 100 cases of unexplained cerebral ischemic complications] Rosa A, et al. **Presse Med** 1990 Jan 20;19(2):73–5 (28 ref.) (Eng. Abstr.) (Fre)

[Doppler ultrasound—anatomy correlations in 45 cases of infectious endocarditis] Mzah N, et al. **Tunis Med** 1989 Nov;67(11):665–70 (Eng. Abstr.) (Fre)

[Echocardiography and Doppler echocardiography in mitral valve stenosis. A review] Nowak B, et al. **Bildgebung** 1987–89;56(3):101–11 (94 ref.) (Eng. Abstr.) (Ger)

[Doctor's–office blood pressure, home blood pressure, ergometry blood pressure and 24–hour blood pressure. The correlations with the echocardiographic parameters of heart muscle mass] Baumgart P, et al. **Dtsch Med Wochenschr** 1990 Apr 27;115(17):643–7 (Eng. Abstr.) (Ger)

[Blood pressure measurement and the echocardiographic parameters (letter)] Franz IW. **Dtsch Med Wochenschr** 1990 Aug 31;115(35):1331–2 (Ger)

[Effects of nicotine on left ventricular diastolic function in patients with coronary disease. An echocardiographic study] Störk T, et al. **Dtsch Med Wochenschr** 1990 Apr 20;115(16):610–7 (Eng. Abstr.) (Ger)

[Echocardiography diagnosis of persistent ductus arteriosus] Häusler HJ, et al. **Kinderarztl Prax** 1990 Mar;58(3):159–66 (Eng. Abstr.) (Ger)

[Ebstein anomaly as a rare cause of a non–immunological fetal hydrops: prenatal diagnosis using Doppler echocardiography] Chaoui R, et al. **Klin Padiatr** 1990 May–Jun;202(3):173–5 (Eng. Abstr.) (Ger)

[Quantitative Doppler echocardiography in the evaluation of heart diseases] Seiler C, et al. **Schweiz Rundsch Med Prax** 1990 May 8;79(19):604–7 (Eng. Abstr.) (Ger)

[Echocardiographic functional parameters of the left ventricle as a prognostic indicator in coronary heart disease] Kneissl GD, et al. **Versicherungsmedizin** 1990 Jun 1;42(3):70–7 (Eng. Abstr.) (Ger)

[Hypertrophic obstructive cardiomyopathy] Goos H, et al. **Z Gesamte Inn Med** 1990 May 1;45(9):261–3 (5 ref.) (Eng. Abstr.) (Ger)

[Echocardiographic evaluation of mechanical and biological heart valve prostheses] Kirchner K. **Z Gesamte Inn Med** 1990 May 1;45(9):256–60 (24 ref.) (Eng. Abstr.) (Ger)

[Ultrasound sonographic diagnosis of myocarditis using quantitative texture analysis of 2–dimensional echocardiography images] Lieback E, et al. **Z Gesamte Inn Med** 1989 Aug 15;44(16):484–7 (Eng. Abstr.) (Ger)

[Pre–, intra– and postoperative echocardiography in cardiovascular diseases. Diseases of the aortic valve] Lindenau KF, et al. **Z Gesamte Inn Med** 1990 May 1; 45(9):237–40 (27 ref.) (Eng. Abstr.) (Ger)

[Intraoperative echocardiography—status and perspectives] Oelert H, et al. **Z Gesamte Inn Med** 1990 May 1;45(9):252–6 (Eng. Abstr.) (Ger)

[Stetho–acoustic cardiomyopathy—characteristics in cardiomyopathies studied by echocardiography] Ruser HR, et al. **Z Gesamte Inn Med** 1989 Aug 15;44(16):497–9 (Eng. Abstr.) (Ger)

[Ambulatory therapy regimen in patients following myocardial infarct in relation to echocardiography and the stress test] Schaller K, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):543–5 (Eng. Abstr.) (Ger)

[Significance of echocardiography for the diagnosis and strategy in infectious endocarditis] Steidl C, et al. **Z Gesamte Inn Med** 1990 May 1;45(9):241–5 (Eng. Abstr.) (Ger)

[Coronary aneurysm following Kawasaki syndrome] Engelhardt W, et al. **Z Kardiol** 1990 May;79(5):336–40 (Eng. Abstr.) (Ger)

[Use of a noninvasive parameter of early diastolic ventricle function for the detection of graft rejection following heart transplantation] Park JW, et al. **Z Kardiol** 1989 Oct; 78(10):668–73 (Eng. Abstr.) (Ger)

[Diagnosis of cardiac causes of cerebral embolism: a contribution to 2D echocardiography and long–term ECG] Richardt G, et al. **Z Kardiol** 1989 Sep;78(9):598–601 (Eng. Abstr.) (Ger)

[Papillary fibroelastoma of the aortic valve: primary echocardiography diagnosis in an asymptomatic patient] Rieckmann C, et al. **Z Kardiol** 1990 Mar;79(3):208–10 (Eng. Abstr.) (Ger)

[Cardiac involvement within the scope of HIV–1 infection: preliminary results of echocardiography study] Steffen HM, et al. **Z Kardiol** 1990 Feb;79(2):83–8 (Eng. Abstr.) (Ger)

[Fetal echocardiography and clinical genetics—a close correlation] Zerres K, et al. **Z Kardiol** 1990 Feb; 79(2):96–106 (Eng. Abstr.) (Ger)

[Heart surgery in infants and children based on echocardiographic diagnosis] Kádár K, et al. **Orv Hetil** 1989 Nov 12;130(46):2459–63 (Eng. Abstr.) (Hun)

[Examination of the diastolic function of the left ventricle by Doppler echocardiography in coronary disease] Szabóki F, et al. **Orv Hetil** 1990 Apr 22;131(16):847–51 (27 ref.) (Eng. Abstr.) (Hun)

[Correlation between the sites of mitral annular calcification and conduction disturbances: echocardiographic evaluation] Cavalli G, et al. **Cardiologia** 1989 Oct; 34(10):885–8 (Eng. Abstr.) (Ita)

[Doppler–hemodynamic evaluation of variations in left ventricular filling due to reduction of external mechanical compression] Destro G, et al. **Cardiologia** 1989 Jul; 34(7):609–16 (Eng. Abstr.) (Ita)

[Right ventricular thrombosis in association with dilated cardiomyopathy: diagnosis by echocardiography and nuclear magnetic resonance] Galanti G, et al. **Cardiologia** 1989 Oct;34(10):889–91 (Eng. Abstr.) (Ita)

[Validity of some electrocardiographic criteria in left ventricular hypertrophy] Pannarale G, et al. **Cardiologia** 1989 Jun;34(6):559–62 (Eng. Abstr.) (Ita)

[Afterload changes in diabetic dysautonomia evaluated using echocardiography] Salvaggio A, et al. **Cardiologia** 1989 Sep;34(9):787–91 (Eng. Abstr.) (Ita)

[Quantitative evaluation of left ventricular function using bidimensional echocardiography (letter)] Badano L. **G Ital Cardiol** 1990 Feb;20(2):177–8 (Ita)

[A Doppler echocardiographic study of normal and dysfunctioning Carpentier–Edwards bioprostheses] Bonaduce D, et al. **G Ital Cardiol** 1990 Jan;20(1):50–7 (Eng. Abstr.) (Ita)

[Prognostic stratification of survivors of 1st myocardial infarction: evaluation of regional kinetics and ejection fraction by bidimensional echocardiography] Catania G, et al. **G Ital Cardiol** 1990 Feb;20(2):133–43 (Eng. Abstr.) (Ita)

[Diagnosis of left ventricular hypertrophy in hypertensive patients: echocardiographic and electrocardiographic approach] De Piccoli B, et al. **G Ital Cardiol** 1990 Apr; 20(4):341–6 (44 ref.) (Ita)

[Echocardiographic study in heart transplantation] Fasoli G, et al. **G Ital Cardiol** 1989 Dec;19(12):1156–60 (20 ref.) (Ita)

[Evaluation of biological prostheses using the Doppler method] Jacovella G, et al. **G Ital Cardiol** 1990 Jan; 20(1):58–65 (30 ref.) (Ita)

[Some recent proposals in bioengineering and medical informatics for cardiology] Mutinelli M. **G Ital Cardiol** 1989 Jul;19(7):645–7 (Ita)

[Variations in left ventricular function during chronic therapy with verapamil in angina patients. Influence of the plasma concentration of the drug. Quantitative M–mode echocardiographic analysis] Zanolla L, et al. **G Ital Cardiol** 1989 Jul;19(7):591–7 (Eng. Abstr.) (Ita)

[Mitral valve prolapse. A prevalence study using bidimensional echocardiography in a young population] Zuppiroli A, et al. **G Ital Cardiol** 1990 Feb;20(2):161–6 (Eng. Abstr.) (Ita)

[The dipyridamole–echo–ECG test in hypertensives with microvascular angina] Lucarini AR, et al. **Medicina (Firenze)** 1989 Apr–Jun;9(2):175–7 (Eng. Abstr.) (Ita)

[Prospective evaluation of the role of abdominal echocardiography in the treatment of seriously traumatized patients] Possamai C, et al. **Minerva Anestesiol** 1989 Jul–Aug;55(7–8):313–7 (Eng. Abstr.) (Ita)

[Echocardiography in the diagnosis of rupture of chordae tendineae. Description of a clinical case] Arturi E, et al. **Minerva Cardioangiol** 1990 Jan–Feb;38(1–2):61–4 (Eng. Abstr.) (Ita)

[An echocardiographic study of patients with left bundle branch block] Arturi E, et al. **Minerva Cardioangiol** 1990 Apr;38(4):127–34 (Eng. Abstr.) (Ita)

[Morphologic and functional evaluation of the left ventricle in patients with acromegaly. An echocardiographic study] Bezante GP, et al. **Minerva Cardioangiol** 1990 Jan–Feb; 38(1–2):11–6 (Eng. Abstr.) (Ita)

[The echocardiographic examination associated with the cold pressor test or the isometric force test in the evaluation of ischemic heart disease] Canale C, et al. **Minerva Cardioangiol** 1989 Jul–Aug;37(7–8):341–9 (Eng. Abstr.) (Ita)

[Chiari's network: persistence of the embryonic remnants of the valve of the sinus venosus in the right atrium. Echocardiographic and clinical analysis in a group of subjects] Chesi G, et al. **Minerva Cardioangiol** 1989 Jul–Aug;37(7–8):333–9 (Eng. Abstr.) (Ita)

[Validity of electrocardiographic indices of left ventricular hypertrophy in athletes] Cottini E, et al. **Minerva Cardioangiol** 1989 Sep;37(9):379–84 (Eng. Abstr.) (Ita)

[Intermediate echocardiographic follow–up of a new model of pericardial prosthesis (Pericarbon)] Micheletti E, et al. **Minerva Cardioangiol** 1990 Apr;38(4):151–5 (Eng. Abstr.) (Ita)

[Echocardiographic parameters and systolic times in arterial hypertension in the elderly] Pentimone F, et al. **Minerva Cardioangiol** 1989 Sep;37(9):369–73 (Eng. Abstr.) (Ita)

[Non–prolapsing atrial myxoma. Description of a clinical and echocardiographic case] Scotto di Quacquaro G, et al. **Minerva Cardioangiol** 1989 Oct;37(10):457–60 (Eng. Abstr.) (Ita)

[A trans–mitral Doppler echocardiographic study in arterial hypertension] Verdecchia P, et al. **Minerva Cardioangiol** 1990 Mar;38(3):89–95 (Eng. Abstr.) (Ita)

[Use of echocardiography for diagnosing anomalies of sex differentiation] Calzi P, et al. **Pediatr Med Chir** 1989 Nov–Dec;11(6):591–5 (Eng. Abstr.) (Ita)

[Discrepancies between wall motion abnormalities and regional myocardial perfusion in patients with myocardial infarction: evaluation by myocardial contrast echocardiography] Lim YJ, et al. **J Cardiol** 1989 Jun; 19(2):343–50 (Eng. Abstr.) (Jpn)

[Left ventricular wall thickness in hypertrophic cardiomyopathy: comparisons of measurements by magnetic resonance imaging, cineangiography, and echocardiography] Matsuda T, et al. **J Cardiol** 1988 Dec; 18(4):1033–41 (Eng. Abstr.) (Jpn)

[Echocardiographic features of left ventricular hypertrophy and contractility in malignant hypertension] Nakamura Y, et al. **J Cardiol** 1989 Mar;19(1):125–34 (Eng. Abstr.) (Jpn)

[Differences in left ventricular shape between aortic and mitral regurgitation: an echocardiographic study] Ohi H, et al. **J Cardiol** 1989 Sep;19(3):823–30 (Eng. Abstr.) (Jpn)

[Assessment of prolapsing pattern of the anterior mitral valve in mitral valve prolapse: new echocardiographic diagnostic criteria] Oki T, et al. **J Cardiol** 1989 Sep;19(3):839–50 (Eng. Abstr.) (Jpn)

[Two–dimensional echocardiographic findings of cor triatriatum: differential diagnosis from total anomalous pulmonary venous connection to the coronary sinus] Saito A, et al. **J Cardiol** 1989 Mar;19(1):231–40 (Eng. Abstr.) (Jpn)

[Ultrasonic tissue characterization by spectral analysis of myocardial textural pattern] Tatsukawa H, et al. **J Cardiol** 1989 Jun;19(2):563–70 (Eng. Abstr.) (Jpn)

[Relations of intracardiac dimensions as measured by echocardiography and plasma atrial natriuretic peptide levels in various cardiovascular diseases] Tomoda H. **J Cardiol** 1989 Mar;19(1):247–55 (Eng. Abstr.) (Jpn)

[Effect of hypertension on asymmetrical septal hypertrophy: an echocardiographic study] Uchida M, et al. **J Cardiol** 1988 Dec;18(4):1043–50 (Eng. Abstr.) (Jpn)

[Clinical pictures and echocardiograms of three cases of severe myocarditis] Baba Y, et al. **J Cardiol Suppl** 1989; 22:27–8 (Jpn)

[Developmental changes in a case of cardiac amyloidosis: diagnostic value of serious echocardiographic methods] Iuchi A, et al. **J Cardiol Suppl** 1989;22:71–4 (Jpn)

[Histology and echocardiographic findings of acute myocarditis] Mizushige K, et al. **J Cardiol Suppl** 1989; 22:29–30 (Jpn)

[A case of right–sided obstructive cardiomyopathy] Morita H, et al. **J Cardiol Suppl** 1989;22:63–5 (Jpn)

[Selection of surgical procedures for mitral stenosis determined with echocardiography] Sugimoto T, et al. **J Cardiol Suppl** 1989;22:53–4 (Jpn)

[A case of metastatic lung tumor mimicking left atrial myxoma by echocardiography] Kawamura Y, et al. **Kaku Igaku** 1989 May;26(5):625–31 (Eng. Abstr.) (Jpn)

[Left ventricular function in patient with diabetes

mellitus—Evaluated by mechanocardiogram and echocardiogram] Okamoto Y, et al. **Kokyu To Junkan** 1989 Dec;37(12):1327–31 (Eng. Abstr.) **(Jpn)**

[Transesophageal echocardiography during coronary bypass surgery] Kawasuji M, et al. **Kyobu Geka** 1990 Jan; 43(1):31–5 (Eng. Abstr.) **(Jpn)**

[Intraoperative assessment of the transmural myocardial blood flow distribution using myocardial contrast echocardiography: preliminary report] Hirata N, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):298 **(Jpn)**

[Intraoperative echocardiographic assesment of left ventricular muscle volume changes after intracardiac operation under cardiopulmonary bypass] Matsuwaka R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov; 37(11):2245–9 (Eng. Abstr.) **(Jpn)**

[The value and limitation of two-dimensional transesophageal echocardiography in diagnosis of dissecting aortic aneurysm] Sasaki S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Dec; 37(12):2495–501 (Eng. Abstr.) **(Jpn)**

[Comparison of auscultation, M-mode echocardiography and color Doppler for detecting aortic regurgitation in patients without mitral stenosis] Ishimitsu T, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1451–6 **(Jpn)**

[Fetal development and fetal heart function analyzed by M-mode echocardiography] Kamoi S. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Jul; 41(7):799–805 (Eng. Abstr.) **(Jpn)**

[Computer analysis of echocardiograms] Osakada G. **Rinsho Byori** 1990 May;38(5):503–8 (Eng. Abstr.) **(Jpn)**

[Echocardiographic assessment of left ventricular function in patients with early type I diabetes] Koprowski A, et al. **Kardiol Pol** 1989;32(10–12):453–8 (Eng. Abstr.) **(Pol)**

[Tendinous cords in echocardiographic studies—occurrence, clinical significance] Kochanowski J, et al. **Pol Tyg Lek** 1989 Jun 5;44(23):545–7 (Eng. Abstr.) **(Pol)**

[Bacterial endocarditis in clinical and echocardiographic observations] Trzesicka M, et al. **Wiad Lek** 1989 Nov 15–Dec 15;42(22–24):1104–9 (Eng. Abstr.) **(Pol)**

[Collapse of the aortic valve in dilated myocardiopathies: echocardiographic study] Martins RM, et al. **Acta Med Port** 1989 Mar–Apr;2(2):61–4 (Eng. Abstr.) **(Por)**

[The mitral valve apparatus: an anatomo-echocardiographic approach] Curti HJ, et al. **Arq Bras Cardiol** 1989 Aug; 53(2):85–92 (Eng. Abstr.) **(Por)**

[Indications and limitations of echocardiography in evaluating aortic valve insufficiency] Brito D, et al. **Rev Port Cardiol** 1989 Sep;8(9):607–13 (66 ref.) (Eng. Abstr.) **(Por)**

[Echocardiographic diagnosis of a hydatid cyst localized at the intraventricular septum] de Almeida CA, et al. **Rev Port Cardiol** 1989 Dec;8(12):859–61 (Eng. Abstr.) **(Por)**

[Role of echocardiography in cardiac insufficiency] Lopes MG. **Rev Port Cardiol** 1989 Jun;8(6):463–8 (13 ref.) (Eng. Abstr.) **(Por)**

[Aneurysm of the Valsalva sinus. Echocardiographic diagnosis. Apropos of a case of long post-rupture survival] Lourenço A, et al. **Rev Port Cardiol** 1989 Jul–Aug; 8(7–8):527–30 (Eng. Abstr.) **(Por)**

[Movement of the mitral valve in patients with ischemic cardiopathy] Oliveira JA, et al. **Rev Port Cardiol** 1989 Jun; 8(6):443–6 (Eng. Abstr.) **(Por)**

[Comparison of 2 non-invasive methods for the analysis of regional motility of the left ventricle in ischemic cardiopathy] Rebelo JR, et al. **Rev Port Cardiol** 1988 Jan–Feb;7(1):23–9 (Eng. Abstr.) **(Por)**

[Echocardiographic parameters in the follow-up of left ventricular performance before and after the surgical correction of mitral and aortic regurgitation] Drăgulescu SI, et al. **Rev Med Interna [Med Interna]** 1989 Mar–Apr; 41(2):135–42 (Eng. Abstr.) **(Rum)**

[An echocardiographic evaluation of pure and isolated mitral stenosis. Comparisons with other noninvasive methods] Georgescu G, et al. **Rev Med Interna [Med Interna]** 1989 Nov–Dec;41(6):539–49 (Eng. Abstr.) **(Rum)**

[Echocardiographic evaluation of hemodynamics and myocardial function in children under 1 year of age following surgery under conditions of artificial blood circulation] Aleksi-Meskhishvili VV, et al. **Anesteziol Reanimatol** 1989 Sep–Oct;(5):45–50 (Eng. Abstr.) **(Rus)**

[Dopplerography and ultrasonic scanning of the internal thoracic artery and of mammary-coronary shunts] Balakhonov TV, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):7–10 (Eng. Abstr.) **(Rus)**

[Angiocardiographic and echocardiographic diagnosis of complete transposition of great vessels in association with pathology of the aorta] Alekian BG, et al. **Grudn Khir** 1989 Nov–Dec;(6):31–7 (Eng. Abstr.) **(Rus)**

[Two-dimensional echocardiography of the left ventricular papillary muscles along their long axis] Lisovskiĭ MA. **Kardiologiia** 1990 May;30(5):62–4 **(Rus)**

[The use of an echocardiograph and a rheoplethysmograph for computing the volume of the reverse blood flow in the atrioventricular heart valves] Chufarov VN. **Med Tekh** 1990 Jan–Feb;(1):37–9 (Eng. Abstr.) **(Rus)**

[Disorders of hemodynamics in the acute period of respiratory distress syndrome (Doppler echocardiography)] Milenin OB, et al. **Pediatriia** 1990;(6):45–50 (Eng. Abstr.) **(Rus)**

[Evaluation of long-term results of intravascular occlusion in patent ductus arteriosus by two-dimensional Doppler echocardiography] Savel'ev SV, et al. **Pediatriia** 1990; (4):74–8 **(Rus)**

[The effect of parenteral gold preparations on heart function in rheumatoid arthritis patients (based on echocardiographic data)] Nemchinov EN, et al. **Revmatologiia (Mosk)** 1989 Oct–Dec;(4):23–8 (Eng. Abstr.) **(Rus)**

[Value of echocardiography in the diagnosis of cardiac lesions in systemic scleroderma] Brusin SI. **Revmatologiia (Moskva)** 1989 Apr–Jun;(2):54–7 (Eng. Abstr.) **(Rus)**

[Echocardiography: current status and development trends] Gorb IuG, et al. **Sov Med** 1990;(5):50–6 (60 ref.) **(Rus)**

[Significance of doppler echocardiography in the assessment of pulmonary hypertension in mitral valve defects] Korytnikov KI. **Sov Med** 1990;(4):59–62 **(Rus)**

[Nifedipine in the treatment of hypertension. An echocardiographic assessment of the hemodynamic effects] Bobrov VA, et al. **Ter Arkh** 1989;61(8):10–3 (Eng. Abstr.) **(Rus)**

[The clinico-echocardiographic signs of rheumocarditis in acute rheumatism in adults and their dynamics under the influence of antirheumatic therapy] Dzhuzenova BS, et al. **Ter Arkh** 1990;62(5):14–7 (Eng. Abstr.) **(Rus)**

[The importance of ultrasonic study of the right heart ventricle and pulmonary artery in the diagnosis of hypertension of the lesser circulation] Gavrisiuk VK, et al. **Ter Arkh** 1989;61(12):43–5 (Eng. Abstr.) **(Rus)**

[Experience in using echocardiography at a district diagnostic center] Golyzhnikov VA, et al. **Ter Arkh** 1989;61(9):94–6 (Eng. Abstr.) **(Rus)**

[Echocardiography in assessing myocardial function in influenza] Mol'kova TN, et al. **Ter Arkh** 1990;62(4):12–4 (Eng. Abstr.) **(Rus)**

[Characteristics of cardiac structure and function in young persons with so-called functional murmurs (clinical echocardiographic research)] Onishchenko EF, et al. **Ter Arkh** 1989;61(11):94–7 (Eng. Abstr.) **(Rus)**

[The surgical treatment of congenital heart defects in neonates and infants without using invasive study methods] Aleksi-Meskhishvili VV, et al. **Vestn Akad Med Nauk SSSR** 1989;(10):21–6 (Eng. Abstr.) **(Rus)**

[Echocardiographic control during catheterization of the right chambers of the heart] Aleksandrov AL, et al. **Vestn Khir** 1989 May;142(5):48 **(Rus)**

[The central hemodynamic indices of patients with postinfarct cardiosclerosis based on echocardiographic data] Komissarov VA. **Vrach Delo** 1989 Nov;(11):52–4 (Eng. Abstr.) **(Rus)**

[Magneto-, electro- and echocardiography in assessing postinfarct myocardial changes] Korneichuk IA. **Vrach Delo** 1990 Jun;(6):12–5 (Eng. Abstr.) **(Rus)**

[Echocardiography in the diagnosis of pulmonary hypertension in obstructive lung diseases] Korzh OB, et al. **Vrach Delo** 1989 Dec;(12):38–9 (Eng. Abstr.) **(Rus)**

[Echocardiographic diagnosis of angiosarcoma of the heart] Popović A, et al. **Srp Arh Celok Lek** 1989 Jul–Aug; 117(7–8):507–12 (Eng. Abstr.) **(Scc)**

[The mean values and correlation between blood pressure, body weight, height, heart rate, the PQ, QT and QTc intervals, the QRS-complex and the echocardiographic dimensions of the left atrium and ventricle in 515 14-year-old students] Catipović-Veselica K, et al. **Lijec Vjesn** 1989 Nov;111(11):377–81 (Eng. Abstr.) **(Scr)**

[Echocardiographic diagnosis of tricuspid valve stenosis—2 case reports] Bukša M, et al. **Med Arh** 1985;39(2–3):83–7 (Eng. Abstr.) **(Scr)**

[Echophonocardiographic criteria of significant coronary artery disease in hypertensive patients] Huml D, et al. **Med Arh** 1984;38(6):309–16 (Eng. Abstr.) **(Scr)**

[Echocardiographic evaluation of pericardial effusion in chronic kidney insufficiency] Labos I, et al. **Med Arh** 1985; 39(1):17–21 **(Scr)**

[Thrombi in the left ventricle in idiopathic dilated cardiomyopathy. Detection using 2-dimensional echocardiography] Nadaždin A. **Med Arh** 1986;40(3):95–7 (Eng. Abstr.) **(Scr)**

[Hemodynamic and anatomic characteristics of the normal Mitroflow biological valve—in vivo determination using 2-dimensional echocardiography] Nadaždin A. **Med Arh** 1989;43(4–6):219–22 (Eng. Abstr.) **(Scr)**

[Segmental abnormalities in left ventricular wall motion in idiopathic dilated (congestive) cardiomyopathies—detection using 2-dimensional echocardiography] Nadaždin A. **Med Arh** 1986;40(6):305–8 (Eng. Abstr.) **(Scr)**

[Echocardiography in amyloidosis (case report)] Petrović O, et al. **Med Arh** 1986;40(1–2):55–9 (Eng. Abstr.) **(Scr)**

[Echocardiographic approach and clinical significance of aberrant ventricular bands and prominent trabeculation] Thaçi AS. **Med Arh** 1989;43(1):73–80 (Eng. Abstr.) **(Scr)**

[The echocardiographic syndrome in the aged heart] Thaçi S, et al. **Med Arh** 1989;43(2–3):187–93 (Eng. Abstr.) **(Scr)**

[Diagnosis of supravalvular aortic stenosis using 2-dimensional echocardiography] Mašura J, et al. **Bratisl Lek Listy** 1989 Dec;90(12):895–9 (Eng. Abstr.) **(Slo)**

[Differences in reference values in 2-dimensional echocardiography in men and women] Zachar A, et al. **Bratisl Lek Listy** 1989 Dec;90(12):900–6 (Eng. Abstr.) **(Slo)**

[Pulmonary artery thrombus in the echocardiographic picture] Beňačka J. **Cas Lek Cesk** 1990 Apr 27; 129(17):532–4 (Eng. Abstr.) **(Slo)**

[Results of a 2-year study of echocardiographic parameters in juvenile athletes] Meško D, et al. **Cas Lek Cesk** 1989 Jul 7;128(28):879–82 (Eng. Abstr.) **(Slo)**

[Solid masses in the pericardial cavity during the acute phase of myocardial infarct—an echocardiographic sign of hemopericardium] Beňačka J. **Vnitr Lek** 1990 Mar; 36(3):275–8 (Eng. Abstr.) **(Slo)**

[2-dimensional echocardiography of mitral stenosis in patients 60 years of age and older] Juhás S, et al. **Vnitr Lek** 1989 Nov;35(11):1057–61 (Eng. Abstr.) **(Slo)**

[The importance of echocardiography in differentiating between cardiac amyloidosis and hypertrophic cardiomyopathy] Puchala M. **Vnitr Lek** 1989 Jul; 35(7):639–44 (Eng. Abstr.) **(Slo)**

[Thrombosis of the left auricle. Diagnostic usefulness of two-dimensional echocardiography] Meneghetti ML, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):473–80 (Eng. Abstr.) **(Spa)**

[Echocardiographic and Doppler study of pulmonary atresia with an intact interventricular septum] Villaricencio R, et al. **Arch Inst Cardiol Mex** 1989 Jul–Aug;59(4):399–403 (Eng. Abstr.) **(Spa)**

[Postinfarct ventricular pseudo-aneurysm. Usefulness of bidimensional echocardiography (letter)] Hernández-Madrid A, et al. **Med Clin (Barc)** 1989 Sep 30; 93(9):357–8 **(Spa)**

[Pericarditis caused by Q fever and the echocardiogram (letter)] Pascual Velasco F. **Med Clin (Barc)** 1989 Sep 23; 93(8):318 **(Spa)**

[Echocardiographic diagnosis of intracardiac tumors] Artaza O, et al. **Rev Chil Pediatr** 1988 Sep–Oct;59(5):318–21 (Eng. Abstr.) **(Spa)**

[Intrapericardial liposarcoma. Echocardiographic diagnosis of a case (letter)] Martínez Sande JL, et al. **Rev Clin Esp** 1990 Mar;186(4):195–7 **(Spa)**

[Recommendations on echocardiography training (editorial)] **Rev Esp Cardiol** 1990 Mar;43(3):135–6 **(Spa)**

[Study of the eustachian valve using bidimensional echocardiography (letter)] Barriales V, et al. **Rev Esp Cardiol** 1989 Jan;42(1):73 **(Spa)**

[The eustachian valve, the thebesian valve and the Chiari network (letter)] Candell Riera J. **Rev Esp Cardiol** 1989 Jan;42(1):72–3 **(Spa)**

[Surgery of congenital cardiopathies without catheterization: initial experience with 141 consecutive cases] Cordovilla G, et al. **Rev Esp Cardiol** 1989 Aug–Sep;42(7):478–84 (Eng. Abstr.) **(Spa)**

[Double mitral orifice associated with a bicuspid aortic valve detected using bidimensional echocardiography] Goicolea FJ, et al. **Rev Esp Cardiol** 1989 Jan;42(1):65–7 (Eng. Abstr.) **(Spa)**

[Aortic atresia with hypoplastic left ventricle. Bidimensional echocardiographic correlation. Anatomy of 14 cases] Modesto C, et al. **Rev Esp Cardiol** 1990 Apr;43(4):266–70 (Eng. Abstr.) **(Spa)**

[Echocardiographic study following corrective surgery for transposition of the great arteries using a baffle] Peteiro J, et al. **Rev Esp Cardiol** 1989 Aug–Sep;42(7):471–7 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Positive blood cultures during transesophageal echocardiography. Görge G, et al. **Am J Cardiol** 1990 Jun 1;65(20):1404–5

Transesophageal echocardiography and its potential for esophageal damage. Urbanowicz JH, et al. **Anesthesiology** 1990 Jan;72(1):40–3

ECONOMICS

Reimbursement update: looking toward the 1990s. Kisslo J, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):154–7

Consequence of the Omnibus Budget Reconciliation Act of 1987: elimination of markup for certain diagnostic tests. Kisslo J, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct; 1(5):388–90

Changes in Medicare reimbursement for echocardiographic procedures. Kisslo J, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):75–8

HISTORY

A milestone for medical ultrasound [editorial] Feigenbaum H. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):255–6

[Hellmuth Hertz deceased—one of the creators of echocardiography] Grahm L, et al. **Lakartidningen** 1990 Jun 13;87(24):2123 **(Swe)**

INSTRUMENTATION

Routine use of transesophageal echocardiography is expensive and time consuming [letter; comment] Noel TA 2d. **Anesthesiology** 1989 Oct;71(4):624–5 Comment on: Anesthesiology 1989 Mar;70(3):470–6.

Technical introduction to echocardiography. Wells PN. **Br Med Bull** 1989 Oct;45(4):829–37 (11 ref.)

Transesophageal examination of the left coronary artery with a 7.5 MHz annular array two-dimensional color flow Doppler transducer. Reichert SL, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):118–24

[Model trials of a method and accuracy in determining vascular diameter in the ultrasound image] Seiche M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:119–20 (Ger)

[Comparative studies of the azimuthal resolution capability of echocardiography systems] Wessel A, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:211–2 (Ger)

[Transesophageal echo computer tomography (ECHO–CT): a new method of dynamic 3-D reconstruction of the heart] Wollschläger H, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:10–1 (Ger)

[A microcomputer system for video-intensitometry evaluation of contrast echocardiograms for evaluating myocardial perfusion in real time] Zotz R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:123–4 (Ger)

[Digital image processing in echocardiography] Angermann CE. **Internist (Berl)** 1990 May;31(5):313–20 (17 ref.) (Ger)

[The status of echocardiography imaging] Brennecke R, et al. **Z Kardiol** 1989;78 Suppl 7:75–80 (21 ref.) (Eng. Abstr.) (Ger)

[Possibilities and limits of 2-dimensional echocardiography in quantitative image analysis] Erbel R, et al. **Z Kardiol** 1989;78 Suppl 7:131–42 (46 ref.) (Eng. Abstr.) (Ger)

[Usefulness and limitations of transesophageal echocardiography in anesthetic practice] Inada E, et al. **Masui** 1989 Nov;38(11):1498–504 (22 ref.) (Eng. Abstr.) (Jpn)

METHODS

Evaluation of left ventricular function by echo-apex tracings. Khoór S, et al. **Acta Cardiol** 1990;45(2):101–6

Superiority of visual versus computerized echocardiographic estimation of radionuclide left ventricular ejection fraction. Amico AF, et al. **Am Heart J** 1989 Dec;118(6):1259–65

Diagnosis of infective endocarditis on a Starr–Edwards prosthesis by transesophageal echocardiography. Culver DL, et al. **Am Heart J** 1990 Apr;119(4):972–3

Dehiscence of a Carpentier mitral ring: diagnosis by transesophageal echocardiography. Gindea AJ, et al. **Am Heart J** 1989 Oct;118(4):841–3

Transesophageal echocardiographic recognition of mitral valve abnormalities associated with aortic valve endocarditis. Karalis DG, et al. **Am Heart J** 1990 May; 119(5):1209–11

Assessment of supra-valvular abnormal signal with color Doppler flow mapping in patients with aortic regurgitation. Okamoto M, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):339–43

Role of transesophageal echocardiography in the diagnosis of papillary muscle rupture secondary to myocardial infarction. Patel AM, et al. **Am Heart J** 1989 Dec; 118(6):1330–3

Safety and utility of transesophageal echocardiography in the critically ill patient. Pearson AC, et al. **Am Heart J** 1990 May;119(5):1083–9

Dissecting aortic aneurysm eight years after aortic commissurotomy for congenital aortic stenosis: detailed identification by transesophageal echocardiography. Porter T, et al. **Am Heart J** 1990 Sep;120(3):716–8

The anatomy of the interatrial septum: a transesophageal echocardiographic study. Schwinger ME, et al. **Am Heart J** 1990 Jun;119(6):1401–5

Right atrial papillary fibroelastoma: diagnosis by transthoracic and transesophageal echocardiography and percutaneous transvenous biopsy. Schwinger ME, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1047–50

Vegetations on endocardial surfaces struck by regurgitant jets: diagnosis by transesophageal echocardiography. Schwinger ME, et al. **Am Heart J** 1990 May;119(5):1212–5

Transesophageal echocardiographic diagnosis of papillary muscle rupture complicating acute myocardial infarction. Stoddard MF, et al. **Am Heart J** 1990 Sep;120(3):690–2

Diverticulum of the mitral valve complicating bacterial endocarditis: diagnosis by transesophageal echocardiography. Teskey RJ, et al. **Am Heart J** 1989 Nov; 118(5 Pt 1):1063–5

Unusual mitral annular vegetation diagnosed by transesophageal echocardiography. Tunick PA, et al. **Am Heart J** 1990 Aug;120(2):444–6

Protruding atherosclerotic plaque in the aortic arch of patients with systemic embolization: a new finding seen by transesophageal echocardiography. Tunick PA, et al. **Am Heart J** 1990 Sep;120(3):658–60

Diagnosis of hidden pacemaker lead sepsis by transesophageal echocardiography and a new technique for lead extraction. Zehender M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1050–3

Prevalence and clinical implications of atrial spontaneous contrast in patients undergoing transesophageal echocardiography. Castello R, et al. **Am J Cardiol** 1990 May 1;65(16):1149–53

Transesophageal echocardiography in the evaluation of prosthetic and native aortic valves. Dittrich HC, et al. **Am J Cardiol** 1990 Sep 15;66(7):758–61

Failure of trifluoperazine to resolve spontaneous echo contrast evaluated by transesophageal echocardiography. Hoffmann R, et al. **Am J Cardiol** 1990 Sep 1;66(5):648–50

In vivo identification of mitral valve fibrosis and calcium by real-time quantitative ultrasonic analysis. Lattanzi F, et al. **Am J Cardiol** 1990 Feb 1;65(5):355–9

Coronary collaterals assessed with myocardial contrast echocardiography in healed myocardial infarction. Lim YJ, et al. **Am J Cardiol** 1990 Sep 1;66(5):556–61

Detection of microbubbles released by oxygenators during cardiopulmonary bypass by intraoperative transesophageal echocardiography. Meloni L, et al. **Am J Cardiol** 1990 Aug 15;66(4):511–4

Application of abdominal and transesophageal echocardiography as a guide for insertion of intraaortic balloon pump in aortic dissection. Nakatani S, et al. **Am J Cardiol** 1989 Nov 1;64(16):1082–3

A possible mechanism for neurologic ischemic events in patients with atrial septal aneurysm. Zabalgoitia-Reyes M, et al. **Am J Cardiol** 1990 Sep 15;66(7):761–4

Hemodynamic changes during twin pregnancy. A Doppler and M-mode echocardiographic study. Robson SC, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1273–8

Contrast echocardiography: a method to visualize changes in regional myocardial perfusion in the dog model for CABG surgery [see comments] Aronson S, et al. **Anesthesiology** 1990 Feb;72(2):295–301 Comment in: Anesthesiology 1990 Feb;72(2):219–21.

A new application for superior laryngeal nerve block: transesophageal echocardiography. Risk C, et al. **Anesthesiology** 1990 Apr;72(4):746–7

Safety of transesophageal echocardiography is still unclear [letter] Savino JS, et al. **Anesthesiology** 1990 Aug; 73(2):366–7

Intraoperative contrast echocardiography: a direct approach to measure regional myocardial perfusion [comment] Smith PK, et al. **Anesthesiology** 1990 Feb;72(2):219–21 Comment on: Anesthesiology 1990 Feb;72(2):295–301.

Comparison of transesophageal echocardiographic and scintigraphic estimates of left ventricular end-diastolic volume index and ejection fraction in patients following coronary artery bypass grafting. Urbanowicz JH, et al. **Anesthesiology** 1990 Apr;72(4):607–12

Transoesophageal echocardiography—an overview. Ding ZP, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):99–103 (31 ref.)

Balloon atrial septostomy under two dimensional echocardiographic visualisation. Wong KY, et al. **Ann Acad Med Singapore** 1990 Jan;19(1):51–3

Transesophageal echocardiography: a new view of the heart. Fisher EA, et al. **Ann Intern Med** 1990 Jul 15;113(2):91–3

The source of recurrent bacteremia identified by trans-esophageal echocardiography. Porkolab FL, et al. **Ann Intern Med** 1990 Apr 15;112(8):628–9

Intraoperative evaluation of atrioventricular septal defect repair by color flow mapping echocardiography. Canter CE, et al. **Ann Thorac Surg** 1989 Oct;48(4):544–50

Left ventricular function in beta thalassaemia major. Lau KC, et al. **Arch Dis Child** 1989 Jul;64(7):1046–51

Factors affecting penetration of retrograde coronary venous injections into normal and ischemic canine myocardium: assessment by contrast echocardiography and digital angiography. Punzengruber C, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):21–32

Diagnosis of ventricular septal rupture after myocardial infarction: value of colour flow mapping. Smyllie J, et al. **Br Heart J** 1989 Oct;62(4):260–7

Assessment of left ventricular structure and function by cross sectional echocardiography. Gibson DG. **Br Med Bull** 1989 Oct;45(4):1061–75 (31 ref.)

Cross-sectional echocardiography. Rigby ML, et al. **Br Med Bull** 1989 Oct;45(4):1036–60 (18 ref.)

Colour flow mapping in cardiology: indications and limitations. Sutherland GR, et al. **Br Med Bull** 1989 Oct; 45(4):1076–91 (48 ref.)

Echocardiography of valve disease. Wilde P. **Br Med Bull** 1989 Oct;45(4):1011–35 (16 ref.)

Echocardiographic and Doppler studies in hypertrophic cardiomyopathy. Sasson Z, et al. **Cardiol Clin** 1990 May; 8(2):217–32 (46 ref.)

Pulmonary artery pressure estimation by Doppler and two-dimensional echocardiography. Schiller NB. **Cardiol Clin** 1990 May;8(2):277–87 (18 ref.)

Transesophageal echocardiography: the expanding role of ultrasounds in the operating room. Voci P, et al. **Cardiologia** 1989 Nov;34(11):909–17

Usefulness of left and right oblique subcostal view in the echo–Doppler investigation of pulmonary arterial blood flow in patients with chronic obstructive pulmonary disease. The subxiphoid view in the echo–Doppler evaluation of pulmonary blood flow. Ferrazza A, et al. **Chest** 1990 Aug;98(2):286–9

Hemodynamics during PEEP ventilation in patients with severe left ventricular failure studied by transesophageal echocardiography. Schuster S, et al. **Chest** 1990 May; 97(5):1181–9

Ultrasound cardiography in the diagnosis of left atrial thrombus. Tallury VK, et al. **Chest** 1971 May;59(5):501–3

Estimation of mean left atrial pressure from transesophageal pulsed Doppler echocardiography of pulmonary venous flow. Kuecherer HF, et al. **Circulation** 1990 Oct; 82(4):1127–39

Onset of altered interventricular septal motion during cardiac surgery. Assessment by continuous intraoperative transesophageal echocardiography. Lehmann KG, et al. **Circulation** 1990 Oct;82(4):1325–34

Serial measurement of integrated ultrasonic backscatter in human cardiac allografts for the recognition of acute rejection. Masuyama T, et al. **Circulation** 1990 Mar; 81(3):829–39

Clinical applications of transesophageal echocardiography. Matsuzaki M, et al. **Circulation** 1990 Sep;82(3):709–22 (91 ref.)

New trend in transesophageal echocardiographic technology. Use of biplane transesophageal probe [comment] Omoto R. **Circulation** 1990 Oct;82(4):1507–9 Comment on: Circulation 1990 Oct;82(4):1121–6.

Characterization of acute experimental left ventricular thrombi with quantitative backscatter imaging. Vandenberg BF, et al. **Circulation** 1990 Mar;81(3):1017–23

Transesophageal echocardiography in percutaneous balloon valvuloplasty for mitral stenosis. Casale PN, et al. **Cleve Clin J Med** 1989 Sep;56(6):597–600

The value of transesophageal echocardiography in the investigation of acute prosthetic valve dysfunction. Scott PJ, et al. **Clin Cardiol** 1990 Aug;13(8):541–4

A new method for hemodynamic and echocardiographic assessment of conscious dogs: comparison with thiopental-morphine anaesthesia. Howard RJ, et al. **Clin Invest Med** 1990 Feb;13(1):6–10

Combined Doppler and M-mode analysis of diastolic filling behaviour in arterial hypertension with and without left ventricular hypertrophy. Wallrabe D, et al. **Cor Vasa** 1990; 32(1):26–35

Assessment of aortic regurgitation by noninvasive techniques. Kandath D, et al. **Curr Probl Cardiol** 1990 Feb;15(2):45–58 (22 ref.)

Echocardiography in coronary artery disease. Kaul S. **Curr Probl Cardiol** 1990 May;15(5):233–98 (201 ref.)

Restrictive tissue in the area of perimembranous ventricular septal defect. Cross-sectional and Doppler echocardiographic study. Magherini A, et al. **Eur Heart J** 1990 Jul;11(7):601–10

Diameter of coronary arteries in infancy [letter; comment] Musumeci S, et al. **Eur J Pediatr** 1989 Nov;149(2):144–5 Comment on: Eur J Pediatr 1989 Feb;148(5):389–92.

Transesophageal echocardiographic assessment of left ventricular function. Leung JM, et al. **Int J Card Imaging** 1989;5(1):63–70 (39 ref.)

Assessment of bedside umbilical vein balloon septostomy using two-dimensional echocardiographic guidance in transposition of great arteries. D'Orsogna L, et al. **Int J Cardiol** 1989 Dec;25(3):271–7

Limits of reproducibility of cross-sectional echocardiographic measurement of left ventricular ejection fraction. Fast J, et al. **Int J Cardiol** 1990 Jul;28(1):67–72

Left atrial myxoma: excision guided by transesophageal cross-sectional echocardiography. Milano A, et al. **Int J Cardiol** 1990 Apr;27(1):125–7

Obstruction of the left ventricular outflow tract in childhood—improved diagnosis by transoesophageal echocardiography. Stümper O, et al. **Int J Cardiol** 1990 Jul;28(1):107–9

Transesophageal echocardiography [letter; comment] Stöllberger C, et al. **Intensive Care Med** 1989;15(7):478–9 Comment on: Intensive Care Med 1989;15(2):126–8.

Left ventricular outflow tract to left atrial communication secondary to rupture of mitral-aortic intervalvular fibrosa in infective endocarditis: diagnosis by transesophageal echocardiography and color flow imaging. Bansal RC, et al. **J Am Coll Cardiol** 1990 Feb;15(2):499–504

Improved guides to tricuspid valve repair: two-dimensional echocardiographic analysis of tricuspid anulus function and color flow imaging of severity of tricuspid regurgitation [comment] Child JS. **J Am Coll Cardiol** 1989 Nov 1; 14(5):1275–7 Comment on: J Am Coll Cardiol 1989 Nov 1;14(5):1266–74.

Safety and efficacy of a new transpulmonary ultrasound contrast agent: initial multicenter clinical results. Feinstein SB, et al. **J Am Coll Cardiol** 1990 Aug;16(2):316–24

Infective endocarditis, 1983–1988: echocardiographic findings and factors influencing morbidity and mortality [see comments] Jaffe WM, et al. **J Am Coll Cardiol** 1990 May;15(6):1227–33 Comment in: J Am Coll Cardiol 1990 May;15(6):1234–7.

Comparative values of the precordial and transesophageal approaches in the echocardiographic evaluation of atrial baffle function after an atrial correction procedure. Kaulitz R, et al. **J Am Coll Cardiol** 1990 Sep;16(3):686–94

Right atrial compression in postoperative cardiac patients: detection by transesophageal echocardiography. Kochar GS, et al. **J Am Coll Cardiol** 1990 Aug;16(2):511–6

Is transesophageal echocardiography the new standard for diagnosing dissecting aortic aneurysms? [comment] Kotler MN. **J Am Coll Cardiol** 1989 Nov 1;14(5):1263–5 Comment on: J Am Coll Cardiol 1989 Nov 1;14(5):1253–62.

The diagnostic and prognostic role of cardiovascular ultrasound in endocarditis: bigger is not better [comment] Martin RP. **J Am Coll Cardiol** 1990 May;15(6):1234–7 Comment on: J Am Coll Cardiol 1990 May;15(6):1227–33.

Ultrasonographic display of complex vascular rings. Murdison KA, et al. **J Am Coll Cardiol** 1990 Jun; 15(7):1645–53

Transesophageal echocardiography in children: new peephole to the heart [comment] Ritter SB. **J Am Coll Cardiol** 1990 Aug;16(2):447–50 (46 ref.) Comment on: J Am Coll Cardiol 1990 Aug;16(2):442–6.

Reproducibility of quantitative myocardial contrast echocardiography. Shapiro JR, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):602–9

Relation of quantitative coronary lesion measurements to the development of exercise-induced ischemia assessed by exercise echocardiography [see comments] Sheikh KH, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1043–51 Comment in: J Am Coll Cardiol 1990 Apr;15(5):1052–4.

Transesophageal echocardiography in children with congenital heart disease: an initial experience. Stümper OF, et al. **J Am Coll Cardiol** 1990 Aug;16(2):433–41

Diagnosis of atrial situs by transesophageal echocardiography [see comments] Stümper OF, et al. **J Am Coll Cardiol** 1990 Aug;16(2):442–6 Comment in: J Am Coll Cardiol 1990 Aug;16(2):447–50.

Exercise echocardiography and quantitative angiography: improved identification of physiologically significant coronary artery stenoses [comment] Vandenberg BF, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1052–4 Comment on: J Am Coll Cardiol 1990 Apr;15(5):1043–51.

Determination of left ventricular volumes with use of a new nongeometric echocardiographic method: clinical validation and potential application. Zoghbi WA, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):610–7

Detection of remote myocardial infarction with quantitative real-time ultrasonic characterization. Barzilai B, et al. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):179–86

Transesophageal echocardiography in unsedated outpatients: technique and patient tolerance. de Belder MA, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):375–9

Transthoracic ultrasonic visualization of coronary atherosclerosis. Feigenbaum H. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):253–8

Sonicated echocardiographic contrast agents: reproducibility studies. Feinstein SB, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):125–31

Quantifying changes in regional myocardial perfusion with aortic contrast echocardiography. Kemper AJ, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):36–47

Transesophageal echocardiography: technique and training [letter] Khandheria BK, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):177–8

Lipomatous hypertrophy of the interatrial septum: characterization by transesophageal and transthoracic echocardiography, magnetic resonance imaging, and computed tomography. Kindman LA, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):450–4

Pitfalls in the diagnosis of thoracic aortic aneurysm by transesophageal echocardiography. Kronzon I, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):145–8

Transesophageal echocardiography during percutaneous mitral valvuloplasty. Kronzon I, et al. **J Am Soc Echocardiogr** 1989 Nov–Dec;2(6):380–5

Transesophageal echocardiography. Mitchell MM, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):362–77 (70 ref.)

Visualization of sinus venosus atrial septal defect by transesophageal echocardiography. Oh JK, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):275–7

Transesophageal echocardiography: the cardiac sonographer's role. Philips J. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):73–4

A novel motion detection method for improving the quality of two-dimensional echocardiographic images. Rigney DR, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):127–34

Transesophageal echocardiography: better information at a higher price? Ryan T. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):311–2

Transesophageal echocardiography. Schiller NB, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):354–7 (13 ref.)

Metastatic cardiac liposarcoma: diagnosis by transesophageal echocardiography and magnetic resonance imaging. Schrem SS, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):149–53 (11 ref.)

Prognostic significance of predischarge 2D-echocardiography after first transmural myocardial infarction. Kumbla DK, et al. **J Assoc Physicians India** 1989 Nov;37(11):699–702

Anatomic characteristics and valvular function of the transplanted heart: transthoracic versus transesophageal echocardiographic findings. Angermann CE, et al. **J Heart Transplant** 1990 Jul–Aug;9(4):331–8

Implantation of an external biventricular assist device: role of transesophageal two-dimensional echocardiography. Faggian G, et al. **J Heart Transplant** 1990 Jul–Aug;9(4):441–3

Intraoperative perfusion contrast echocardiography. Initial experience during coronary artery bypass grafting. Kabas JS, et al. **J Thorac Cardiovasc Surg** 1990 Mar;99(3):536–42

Contributing factors to formation of left atrial spontaneous echo contrast in mitral valvular disease. Chen YT, et al. **J Ultrasound Med** 1990 Mar;9(3):151–5

Wide-field transesophageal echocardiographic tomography: feasibility study. Seward JB, et al. **Mayo Clin Proc** 1990 Jan;65(1):31–7

Biplanar transesophageal echocardiography: anatomic correlations, image orientation, and clinical applications. Seward JB, et al. **Mayo Clin Proc** 1990 Sep;65(9):1193–213 (13 ref.)

Fetal echocardiography. Hess LW, et al. **Obstet Gynecol Clin North Am** 1990 Mar;17(1):41–79 (48 ref.)

Transesophageal echocardiography for insertion of a physiological pacemaker in early pregnancy. Jordaens LJ, et al. **PACE** 1990 Aug;13(8):955–7

Echocardiography. Basics for the primary care physician. Wilson DB, et al. **Postgrad Med** 1990 Apr;87(5):191–3, 196–202 (30 ref.)

Transesophageal echocardiography in the detection of intracardiac embolic sources in patients with transient ischemic attacks. Pop G, et al. **Stroke** 1990 Apr;21(4):560–5

Frequency analysis of surface electrocardiogram and two-dimensional echocardiography for noninvasive diagnosis of rejection after heart transplantation. Reichenspurner H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2552–3

Automatic detection of inter-frame motion in echocardiographic images. Klingler JW, et al. **Ultrasound Med Biol** 1989;15(7):683–9

[One- and two-dimensional echocardiography in the diagnosis of exudative pericarditis] Bubniak Z, et al. **Vutr Boles** 1989;28(4):51–3 **(Bul)**

[M-echocardiographic determination of left-ventricular diastolic noncompliance, diastolic wall stress and the rate of relaxation of the circumferential muscle fibers] Kolev N, et al. **Vutr Boles** 1989;28(6):25–30 (Eng. Abstr.) **(Bul)**

[Initial experience with transesophageal echocardiography] Novotný J, et al. **Vnitr Lek** 1990 Feb;36(2):105–12 (Eng. Abstr.) **(Cze)**

[Transesophageal echography. Value of the technic apropos of a preliminary experiment in 320 patients (385 examinations)] Cormier B, et al. **Ann Med Interne (Paris)** 1989;140(7):561–5 (Eng. Abstr.) **(Fre)**

[Value of transesophageal echocardiography. From a preliminary experience of 532 cases] Cormier B, et al. **Arch Mal Coeur** 1990 Jan;83(1):23–9 (Eng. Abstr.) **(Fre)**

[Is Echovist superior to Gelifundol as an echo contrast medium?] Leyh R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:121–2 **(Ger)**

[Quantitative assessment of cardiologic ultrasound images based on statistical values] Steinmetz E, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:136–7 **(Ger)**

[Echocardiography. Function analysis from morphology and dynamics] Autenrieth G. **Internist (Berl)** 1990 May;31(5):305–12 (27 ref.) **(Ger)**

[Echocardiographic evaluation of heart valve diseases (published erratum appears in Internist (Berlin) 1989 Nov;30(11):774)] Autenrieth G, et al. **Internist (Berlin)** 1989 Aug;30(8):464–74 (32 ref.) **(Ger)**

[Transesophageal echocardiography] Zuber M, et al. **Schweiz Med Wochenschr** 1990 Jun 23;120(25):917–30 (152 ref.) (Eng. Abstr.) **(Ger)**

[The value of color Doppler studies to conventional cardiac Doppler studies] Bloch A, et al. **Schweiz Rundsch Med Prax** 1989 Nov 14;78(46):1285–7 (Eng. Abstr.) **(Ger)**

[Significance of 2-dimensional echocardiography for the diagnosis of dipyridamole-induced myocardial ischemia in patients with coronary heart disease] Gawor Z, et al. **Z Gesamte Inn Med** 1990 Jan 1;45(1):5–8 (Eng. Abstr.) **(Ger)**

[The importance of two-dimensional echocardiography in conjunction with trans-esophageal stimulation of the left atrium for the diagnosis of myocardial ischemia] Gawor Z, et al. **Z Gesamte Inn Med** 1989 Dec 15;44(24):736–40 (Eng. Abstr.) **(Ger)**

[Combined echo- and Doppler echocardiography determination of diastolic function parameters of the left ventricle] Wallrabe D. **Z Gesamte Inn Med** 1990 May 15; 45(10):277–80 (Eng. Abstr.) **(Ger)**

[The status of echocardiography within the scope of routine cardiologic diagnosis] Daniel WG, et al. **Z Kardiol** 1989; 78 Suppl 7:107–15 (33 ref.) (Eng. Abstr.) **(Ger)**

[Transesophageal and Doppler ultrasound studies before and following percutaneous balloon valvuloplasty of the aortic valve] Geibel A, et al. **Z Kardiol** 1990 Mar;79(3):176–82 (Eng. Abstr.) **(Ger)**

[Possibilities and limits of echocardiography] Köhler E. **Z Kardiol** 1990 Jul;79(7):461–7 (41 ref.) (Eng. Abstr.) **(Ger)**

[Transesophageal echocardiography] Kronzon I, et al. **Harefuah** 1989 Jul;117(1–2):20–5 (9 ref.) **(Heb)**

[Comparative study of digitalized M-mode and Doppler echocardiography in assessing left ventricular function] Szabóki F, et al. **Orv Hetil** 1990 Feb 4;131(5):223–7 (24 ref.) (Eng. Abstr.) **(Hun)**

[The Duromedics mitral valve mechanical prosthesis: evaluation by means of transesophageal echocardiography] Desideri A, et al. **G Ital Cardiol** 1989 Aug;19(8):680–5 (Eng. Abstr.) **(Ita)**

[Comparison between Doppler CW and Duplex-Scanning in the assessment of silent peripheral vascular lesions in a population of ischemic heart disease patients] Caruzzo C, et al. **Minerva Cardioangiol** 1989 Jun;37(6):269–72 (Eng. Abstr.) **(Ita)**

[Comparison of echo 2D and echo Doppler in the evaluation of the mitral valve area] Marchese F, et al. **Minerva Cardioangiol** 1990 Mar;38(3):79–83 (Eng. Abstr.) **(Ita)**

[Analysis of left ventricular wall motion by computer image processing in patients with or without coronary artery involvement in Kawasaki disease] Kato K, et al. **J Cardiol** 1989 Mar;19(1):113–24 (Eng. Abstr.) **(Jpn)**

[Two-dimensional and Doppler echocardiographic studies of the genesis of a high-pitched diastolic rumble in mitral stenosis: contribution of the deformed mitral orifice and eccentric mitral inflow jet] Kawano K, et al. **J Cardiol** 1989 Mar;19(1):155–66 (Eng. Abstr.) **(Jpn)**

[Dobutamine stress thallium myocardial scintigraphy compared with two-dimensional echocardiography] Obayashi T, et al. **J Cardiol** 1989 Mar;19(1):67–77 (Eng. Abstr.) **(Jpn)**

[Left ventricular thrombi detected by Ga-67-DFO-DAS-fibrinogen imaging and two-dimensional echocardiography] Sakoda S, et al. **J Cardiol** 1989 Mar;19(1):87–95 (Eng. Abstr.) **(Jpn)**

[Transesophageal echocardiography] Omoto R, et al. **Kokyu To Junkan** 1989 Oct;37(10):1075–81 **(Jpn)**

[2-dimensional and Doppler echocardiographic follow-up on degenerative changes in Ionescu-Shiley pericardial xenograft] Miyazawa S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jul;37(7):1281–6 (Eng. Abstr.) **(Jpn)**

[Diagnosis of intra- and pericardial tumor with transthoracic and transesophageal 2D echocardiography] Engberding R, et al. **Pol Tyg Lek** 1989 Jun 5;44(23):551–3 (Eng. Abstr.) **(Pol)**

[The initial experience of using transesophageal echocardiography in cardiology and cardiac surgery] Ataullakhanova DM, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):4–7 (Eng. Abstr.) **(Rus)**

[Transesophageal echocardiography: the principles, potentials, prospects] At'kov OIu, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):103–6 (31 ref.) **(Rus)**

[Echo contrast study of myocardial perfusion] At'kov OIu, et al. **Ter Arkh** 1990;62(4):148–51 (58 ref.) **(Rus)**

[Potentials of transesophageal echocardiography in cardiology and cardiac surgery] Sukernik MR, et al. **Ter Arkh** 1990;62(4):8–12 (Eng. Abstr.) **(Rus)**

[Transesophageal echocardiography (editorial)] Pons Lladó G, et al. **Rev Esp Cardiol** 1990 May;43(5):279–81 **(Spa)**

STANDARDS

Clinical competence in adult echocardiography. A statement for physicians from the ACP/ACC/AHA Task Force on Clinical Privileges in Cardiology. **Circulation** 1990 Jun; 81(6):2032–5

Peripheral vein contrast echocardiography in atrial septal defect. Saraçlar M, et al. **Turk J Pediatr** 1989 Jan–Mar; 31(1):37–43

STATISTICS & NUMERICAL DATA

Reproducibility of echocardiographic estimates of the area of stenosed aortic valves using the continuity equation. Myreng Y, et al. **Int J Cardiol** 1990 Mar;26(3):349–54; discussion 355–9

TRENDS

New developments in contrast echocardiography. Ryan TJ. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):470–1

The evolution of echocardiography. Skorton DJ. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):293

Two-dimensional intravascular ultrasound: technical development and initial clinical experience. Yock PG, et al. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):296–304 (24 ref.)

[Development of echocardiographic diagnosis of congenital cardiopathies: from M-mode to color Doppler] Gentile R, et al. **Medicina (Firenze)** 1989 Apr–Jun;9(2):147–54 (22 ref.) (Eng. Abstr.) **(Ita)**

UTILIZATION

Echoes from the Third World—two-dimensional echocardiography in a developing country. Strang JI. **S Afr Med J** 1990 Jan 20;77(2):85–91

[Use of fetal ultrasonic detectors in general practice] Salvesen KA, et al. **Tidsskr Nor Laegeforen** 1990 May 10; 110(12):1506–8 (Eng. Abstr.) **(Nor)**

VETERINARY

Comparison of left ventricular ejection fractions determined in healthy anesthetized dogs by echocardiography and gated equilibrium radionuclide ventriculography. Sisson DD, et al. **Am J Vet Res** 1989 Nov;50(11):1840–7

Echocardiographic and electrocardiographic study of the normal kangaroo heart. Sugishita Y, et al. **Aust N Z J Med** 1990 Apr;20(2):160–5

Clinical, echocardiographic, and radiographic findings of peritoneopericardial diaphragmatic hernia in two dogs and a cat. Hay WH, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1245–8

Echocardiography and surgery in a dog with left atrial rupture and hemopericardium. Sadanaga KK, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):216–21

Double-inlet univentricular heart of left ventricular type in a calf: detection by two-dimensional and Doppler echocardiography. Hagio M, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):1049–53

ECHOCARDIOGRAPHY, CONTINUOUS DOPPLER see **ECHOCARDIOGRAPHY, DOPPLER**

ECHOCARDIOGRAPHY, CONTRAST see **ECHOCARDIOGRAPHY**

ECHOCARDIOGRAPHY, CROSS-SECTIONAL see **ECHOCARDIOGRAPHY**

ECHOCARDIOGRAPHY, DOPPLER

Value of Doppler echocardiography for the evaluation of left ventricular diastolic function at rest and after exercise in patients with coronary artery disease. Krzemińska-Pakula M, et al. **Acta Cardiol** 1990;45(2):121–4

Cusp pliability of the mitral valve: Doppler–echocardiographic and computer–tomographic study. Huml D, et al. **Acta Med Iugosl** 1989;43(5):327–36

Two–dimensional pulsed Doppler echocardiographic technique for estimating pulmonary to systemic blood flow ratio in children with atrial septal defect and patent ductus arteriosus. Lin YF, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Jun;31(3):314–22

Ductal left–to–right flow and pulmonary circulation in normal neonates: pulsed Doppler echocardiographic evaluation. Shiraishi H, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Dec;31(6):727–33

Diagnosis of left ventricular pseudoaneurysm using contrast and Doppler echocardiography. Bach M, et al. **Am Heart J** 1989 Oct;118(4):854–6

Aortic thrombosis and peripheral embolization after thoracic gunshot wound diagnosed by transesophageal echocardiography. Bergin PJ. **Am Heart J** 1990 Mar;119(3 Pt 1):688–90

Influence of beta–adrenergic blockade upon hemodynamic response to exercise assessed by Doppler echocardiography. Clifton GD, et al. **Am Heart J** 1990 Sep;120(3):579–85

Echo–Doppler diagnosis of aortocaval fistula following blunt trauma to abdomen. Daxini BV, et al. **Am Heart J** 1989 Oct;118(4):843–4

Relation of echocardiographic morphology of the mitral apparatus to mitral regurgitation in mitral valve prolapse: assessment by Doppler color flow imaging. Grayburn PA, et al. **Am Heart J** 1990 May;119(5):1095–102

Noninvasive evaluation of pulmonary artery systolic pressures during dynamic exercise by saline–enhanced Doppler echocardiography. Himelman RB, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):685–8

Noninvasive detection of exercise–induced markedly elevated left ventricular filling pressure by pulsed Doppler echocardiography in patients with coronary artery disease. Iwase M, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):947–54

Noninvasive evaluation of the magnitude of aortic and mitral regurgitation by means of Doppler two–dimensional echocardiography. Kurokawa S, et al. **Am Heart J** 1990 Sep;120(3):638–48

Transmitral flow velocity in symptomatic severe aortic regurgitation: utility of Doppler for determination of preclosure of the mitral valve. Marcus RH, et al. **Am Heart J** 1990 Aug;120(2):449–51

Significance of laminar systolic regurgitant flow in patients with tricuspid regurgitation: a combined pulsed–wave, continuous–wave Doppler and two–dimensional echocardiographic study. Minagoe S, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):627–35

Left ventricular filling at elevated diastolic pressures: relationship between transmitral Doppler flow velocities and atrial contribution. Myreng Y, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):620–6

Exercise Doppler echocardiography in patients with mitral prosthetic valves. Reisner SA, et al. **Am Heart J** 1989 Oct; 118(4):755–9

Functional pulmonary atresia: color flow recognition and treatment with extracorporeal membrane oxygenation. Weinhaus L, et al. **Am Heart J** 1990 Apr;119(4):980–2

Impaired relationship between Doppler echocardiographic parameters of diastolic function and left ventricular filling pressure during acute ischemia. Werner GS, et al. **Am Heart J** 1990 Jul;120(1):63–72

Usefulness of the dipyridamole–Doppler test for diagnosis of coronary artery disease. Agati L, et al. **Am J Cardiol** 1990 Apr 1;65(13):829–34

Color flow Doppler evaluation of St. Jude Medical prosthetic valves. Alam M, et al. **Am J Cardiol** 1989 Dec 1;64(19):1387

Color flow Doppler evaluation of cardiac bioprosthetic valves. Alam M, et al. **Am J Cardiol** 1989 Dec 1; 64(19):1389–92

Usefulness of the Doppler mean gradient in evaluation of children with aortic valve stenosis and comparison to gradient at catheterization. Bengur AR, et al. **Am J Cardiol** 1989 Oct 1;64(12):756–61

Effects of sample volume location, imaging view, heart rate and age on tricuspid velocimetry in normal subjects. Berman GO, et al. **Am J Cardiol** 1990 Apr 15; 65(15):1026–30

Comparison of Doppler indexes of left ventricular diastolic function with simultaneous high fidelity left atrial and ventricular pressures in idiopathic dilated cardiomyopathy. David D, et al. **Am J Cardiol** 1989 Nov 15;64(18):1173–9

Effect of alteration in loading conditions on both normal and abnormal patterns of left ventricular filling in healthy individuals. Downes TR, et al. **Am J Cardiol** 1990 Feb 1;65(5):377–82

Validation and applications of mitral prosthetic valvular areas calculated by Doppler echocardiography. Dumesnil JG, et al. **Am J Cardiol** 1990 Jun 15;63(22):1443–8

Doppler echocardiographic flow velocity measurements in the superior vena cava during the Valsalva maneuver in normal subjects. Gindea AJ, et al. **Am J Cardiol** 1990 Jun 1;65(20):1387–91

Doppler method of assessing ventricular ejection force [letter; comment] Guntheroth WG. **Am J Cardiol** 1990 Apr 15;65(15):1050 Comment on: Am J Cardiol 1989 Jul 1;64(1):81–7.

Effect of blood pressure and afterload on Doppler echocardiographic measurements of left ventricular systolic function in normal subjects. Harrison MR, et al. **Am J Cardiol** 1989 Oct 15;64(14):905–8

Usefulness of color Doppler flow imaging to distinguish ventricular septal defect from acute mitral regurgitation complicating acute myocardial infarction. Harrison MR, et al. **Am J Cardiol** 1989 Oct 1;64(12):697–701

A simplified normalized ejection phase index measured by Doppler echocardiography for the assessment of left ventricular performance. Isaaz K, et al. **Am J Cardiol** 1990 May 15;65(18):1246–51

Influence of myocardial infarction size on radionuclide and Doppler echocardiographic measurements of diastolic function. Johannessen KA, et al. **Am J Cardiol** 1990 Mar 15;65(11):692–7

Two–dimensional echocardiography and Doppler findings in cerebral arteriovenous malformations [letter; comment] Kessler RM, et al. **Am J Cardiol** 1990 Apr 15;65(15):1050 Comment on: Am J Cardiol 1989 Jul 15;64(3):252–4.

In vivo relation between cineangiographic jet width and jet width imaged by color–coded Doppler. Klewer SE, et al. **Am J Cardiol** 1989 Dec 1;64(19):1399–401

Doppler measurement of posterior left ventricular wall velocity [letter; comment] Kostis JB. **Am J Cardiol** 1990 Apr 15;65(15):1047 Comment on: Am J Cardiol 1989 Jul 1;64(1):66–75.

Changes in cardiac output determined by continuous–wave Doppler echocardiography during propafenone or mexiletine drug testing. Lange H, et al. **Am J Cardiol** 1990 Feb 15;65(7):458–62

Assessment of the hemodynamic response to acetyl–strophanthidin by Doppler echocardiography in normal subjects and in those with coronary artery disease or idiopathic dilated cardiomyopathy. Lange HW, et al. **Am J Cardiol** 1990 Mar 15;65(11):804–7

Prospective Doppler echocardiographic evaluation of pulmonary artery diastolic pressure in the medical intensive care unit. Lee RT, et al. **Am J Cardiol** 1989 Dec 1; 64(19):1366–70

Diagnosis and quantitative evaluation of secundum–type atrial septal defect by transesophageal Doppler echocardiography. Morimoto K, et al. **Am J Cardiol** 1990 Jul 1;66(1):85–91

Usefulness of nuclear magnetic resonance imaging for evaluation of pericardial effusions, and comparison with two–dimensional echocardiography. Mulvagh SL, et al. **Am J Cardiol** 1989 Nov 1;64(16):1002–9

Prevalence and significance of left ventricular filling abnormalities determined by Doppler echocardiography in young type I (insulin–dependent) diabetic patients. Paillole C, et al. **Am J Cardiol** 1989 Nov 1;64(16):1010–6

Doppler–echocardiographic evaluation of left atrial contribution to left ventricular filling in mitral stenosis at rest and during exercise. Parris TM, et al. **Am J Cardiol** 1989 Nov 1;64(16):1058–60

Doppler echocardiographic evaluation of left ventricular diastolic function in adolescents with diabetes mellitus. Riggs TW, et al. **Am J Cardiol** 1990 Apr 1;65(13):899–902

Doppler echocardiographic evaluation of left ventricular diastolic function after percutaneous transluminal coronary angioplasty for unstable angina pectoris or acute myocardial infarction. Snow FR, et al. **Am J Cardiol** 1990 Apr 1;65(13):840–4

Effect of isometric exercise on mitral and aortic regurgitation as assessed by color Doppler flow imaging. Spain MG, et al. **Am J Cardiol** 1990 Jan 1;65(1):78–83

Differential sensitivity of the RV6:RV5 voltage ratio by pathogenesis of left ventricular hypertrophy and diagnostic cutpoint. Spodick DH, et al. **Am J Cardiol** 1989 Oct 1; 64(12):817–9

Doppler echocardiographic–determined changes in left ventricular diastolic filling flow velocity during the lower body positive and negative pressure method. Takahashi T, et al. **Am J Cardiol** 1990 Jan 15;65(3):237–41

Clinical, echocardiographic and Doppler correlates of clinical instability with onset of atrial fibrillation. Tischler MD, et al. **Am J Cardiol** 1990 Sep 15;66(7):721–4

Pulsed Doppler evaluation of right ventricular diastolic filling in children with pulmonary valve stenosis before and after balloon valvuloplasty. Vermilion RP, et al. **Am J Cardiol** 1990 Jul 1;66(1):79–84

Saline contrast enhancement of tricuspid regurgitant jets detected by Doppler color flow imaging. Waggoner AD, et al. **Am J Cardiol** 1990 Jun 1;65(20):1368–71

Left ventricular diastolic dysfunction evaluated by Doppler echocardiography in patients with diabetes mellitus. Zoneraich S. **Am J Cardiol** 1989 Nov 1;64(16):1037–8

Techniques differ in use of Doppler ultrasonography [letter] Easterling TR, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1748–9

Maternal hemodynamic effects of uterine contractions by M–mode and pulsed–Doppler echocardiography. Lee W, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):974–7

Evaluation of pulsed Doppler echocardiography for measurement of aortic blood flow in the fetal lamb. Veille JC, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1610–4

Importance of atrial systole to ventricular filling predicted by transesophageal echocardiography. Konstadt SN, et al. **Anesthesiology** 1990 Jun;72(6):971–6

Doppler assessment of the effects of isometric stress on left ventricular filling in hypertensive young adults. Abinader EG, et al. **Angiology** 1989 Dec;40(12):1052–7

Quantification of left–sided valvular stenoses by color Doppler imaging of jets. Veyrat C, et al. **Angiology** 1990 May;41(5):352–64

Echocardiographic abnormalities in type IV mucopolysaccharidosis. John RM, et al. **Arch Dis Child** 1990 Jul;65(7):746–9

Coronary arteries and athlete's heart. Zeppilli P, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:89–92

Colour Doppler flow mapping. Simpson IA, et al. **BMJ** 1990 Jan 6;300(6716):1–2 (19 ref.)

Doppler ultrasound echocardiographic measurement of cardiac output. Advantages and drawbacks. Orlando E, et al. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):37–48 (30 ref.)

Continuous wave Doppler echocardiography and coarctation of the aorta: gradients and flow patterns in the assessment of severity [see comments] Carvalho JS, et al. **Br Heart J** 1990 Aug;64(2):133–7 Comment in: Br Heart J 1990 Aug;64(2):109–10.

Ultrasound and coarctation of the aorta [comment] Gibbs JL. **Br Heart J** 1990 Aug;64(2):109–10 (25 ref.) Comment on: Br Heart J 1990 Aug;64(2):133–7.

Doppler flow characteristics in the assessment of pulmonary artery pressure in ductus arteriosus. Houston AB, et al. **Br Heart J** 1989 Oct;62(4):284–90

Variability of the Doppler gradient in pulmonary valve stenosis before and after balloon dilatation. Lim MK, et al. **Br Heart J** 1989 Sep;62(3):212–6

Doppler echocardiographic characteristics of normal and dysfunctioning prosthetic valves in the tricuspid and mitral position. Pye M, et al. **Br Heart J** 1990 Jan;63(1):41–4

Cross sectional early mitral flow velocity profiles from colour Doppler. Samstad SO, et al. **Br Heart J** 1989 Sep; 62(3):177–84

Pseudoaneurysm of the right ventricular outflow tract: diagnosis by colour flow mapping. Sreeram N, et al. **Br Heart J** 1990 Feb;63(2):129–31

Potential value of intraoperative Doppler colour flow mapping in operations for complex intracardiac shunting. Sutherland GR, et al. **Br Heart J** 1989 Dec;62(6):467–9

Echocardiographic appearance of pulmonary artery stenosis. Swan JW, et al. **Br Heart J** 1990 Mar;63(3):175–7

Rupture of mitral chordae tendineae resulting from blunt chest trauma: diagnosis by transesophageal echocardiography. Turabian M, et al. **Can J Cardiol** 1990 Jun;6(5):180–2

Evaluation of left ventricular diastolic function. Bessen M, et al. **Cardiol Clin** 1990 May;8(2):315–32 (86 ref.)

Doppler echocardiographic quantitation of volumetric flow rate. Calafiore P, et al. **Cardiol Clin** 1990 May;8(2):191–202 (38 ref.)

Doppler echocardiographic evaluation of mitral stenosis. Hatle L. **Cardiol Clin** 1990 May;8(2):233–47 (52 ref.)

Doppler echocardiographic evaluation of aortic stenosis. Judge KW, et al. **Cardiol Clin** 1990 May;8(2):203–16 (46 ref.)

Echocardiographic evaluation of prosthetic cardiac valves. Mahan EF 3d, et al. **Cardiol Clin** 1990 May;8(2):369–76 (50 ref.)

Echocardiography in the detection and evaluation of coronary artery disease. Iliceto S, et al. **Cardiologia** 1989 Aug;34(8):665–70 (28 ref.)

Should patients with large anterior wall myocardial infarction have echocardiography to identify left ventricular thrombus and should they be anticoagulated? Ezekowitz MD, et al. **Cardiovasc Clin** 1990;21(1):105–20; discussion 121–2 (92 ref.)

Effects of atrioventricular interval on left ventricular diastolic filling assessed with pulsed Doppler echocardiography. Masuyama T, et al. **Cardiovasc Res** 1989 Dec;23(12):1034–42

Perforated aneurysm of the anterior mitral valve. A Doppler and two–dimensional echocardiographic report. Chua SO, et al. **Chest** 1990 Mar;97(3):753–4

Doppler evaluation [letter; comment] Faber J. **Chest** 1990 Mar;97(3):765–6 Comment on: Chest 1989 Mar;95(3):525–9.

Noninvasive estimation of systolic pulmonary artery pressure using Doppler echocardiography in patients with chronic obstructive pulmonary disease. Laaban JP, et al. **Chest** 1989 Dec;96(6):1258–62

Pulsed Doppler echocardiography in the diagnosis of pulmonary hypertension in COPD. Miguéres M, et al. **Chest** 1990 Aug;98(2):280–5

Doppler echocardiography in modern cardiology. O'Shea JP, et al. **Chest** 1989 Dec;96(6):1390–2 (11 ref.)

Use of Doppler echocardiography and amyl nitrite inhalation to characterize left ventricular outflow obstruction in hypertrophic cardiomyopathy. Sheikh KH, et al. **Chest**

1990 Feb;97(2):389–95
Discrepancies between Doppler and catheter gradients in aortic prosthetic valves in vitro. A manifestation of localized gradients and pressure recovery. Baumgartner H, et al. **Circulation** 1990 Oct;82(4):1467–75
Assessment of abnormal systolic intraventricular flow patterns by Doppler imaging in patients with left ventricular dyssynergy. Garrahy PJ, et al. **Circulation** 1990 Jul;82(1):95–104
Two-dimensional echocardiography and Doppler color flow mapping in the diagnosis and prognosis of ventricular septal rupture. Helmcke F, et al. **Circulation** 1990 Jun; 81(6):1775–83
Assessment of left ventricular relaxation by Doppler echocardiography. Comparison of isovolumic relaxation time and transmitral flow velocities with time constant of isovolumic relaxation. Myreng Y, et al. **Circulation** 1990 Jan;81(1):260–6
Left ventricular diastolic function. Doppler echocardiographic changes soon after cardiac transplantation. St.Goar FG, et al. **Circulation** 1990 Sep; 82(3):872–8
A new method for estimating left ventricular dP/dt by continuous wave Doppler echocardiography [letter] Sheridan JJ. **Circulation** 1990 Jul;82(1):316–7
Intraoperative Doppler color flow mapping for decision-making in valve repair for mitral regurgitation. Technique and results in 100 patients. Stewart WJ, et al. **Circulation** 1990 Feb;81(2):556–66
Improvement in mitral flow dynamics during exercise after percutaneous transvenous mitral commissurotomy. Noninvasive evaluation using continuous wave Doppler technique. Tamai J, et al. **Circulation** 1990 Jan;81(1):46–51
Assessment of left-to-right atrial shunting after percutaneous mitral valvuloplasty by transesophageal color Doppler flow-mapping. Yoshida K, et al. **Circulation** 1989 Dec; 80(6):1521–6
Value of acceleration flows and regurgitant jet direction by color Doppler flow mapping in the evaluation of mitral valve prolapse. Yoshida K, et al. **Circulation** 1990 Mar; 81(3):879–85
Doppler assessment of right ventricular filling in a normal population. Comparison with left ventricular filling dynamics. Zoghbi WA, et al. **Circulation** 1990 Oct; 82(4):1316–24
Two-dimensional and pulsed Doppler echocardiographic diagnosis of an acquired aortic right ventricular fistula. Chow WH, et al. **Clin Cardiol** 1989 Sep;12(9):544–5
Doppler echocardiographic assessment of transmitral gradients and mitral valve area before and after mitral valve balloon dilatation. Dev V, et al. **Clin Cardiol** 1989 Nov; 12(11):629–33
Fetal Doppler echocardiography. Reed KL. **Clin Obstet Gynecol** 1989 Dec;32(4):728–37 (31 ref.)
Techniques and applications of Doppler echocardiography. Waggoner AD, et al. **Compr Ther** 1990 Jun;16(6):36–45 (16 ref.)
Doppler ultrasound and clinical evaluation in detection and grading of patient ductus arteriosus in neonates. Hirsimäki H, et al. **Crit Care Med** 1990 May;18(5):490–3
Aortic valve area evolution after percutaneous aortic valvuloplasty. A prospective trial using a combined Doppler echocardiographic and haemodynamic method [published erratum appears in Eur Heart J 1990 Jul;11(7):676] Bernard Y, et al. **Eur Heart J** 1990 Feb; 11(2):98–107
Doppler echocardiography in the evaluation of tricuspid stenosis. Fawzy ME, et al. **Eur Heart J** 1989 Nov; 10(11):985–90
Colour Doppler echocardiography in the diagnosis of ruptured aneurysm of sinus of Valsalva. Goudevenos J, et al. **Eur Heart J** 1990 Jul;11(7):666–9
Cardiac output measured by Doppler echocardiography in patients with aortic prosthetic valves. Ihlen H, et al. **Eur Heart J** 1990 May;11(5):399–402
Echo Doppler evaluation of right ventricular dysplasia. Iliceto S, et al. **Eur Heart J** 1989 Sep;10 Suppl D:29–32
Doppler-echocardiographic findings in a patient with persisting right ventricular sinusoids. Jenni R, et al. **Eur Heart J** 1990 Feb;11(2):189–92
Restrictive tissue in the area of perimembranous ventricular septal defect. Cross-sectional and Doppler echocardiographic study. Magherini A, et al. **Eur Heart J** 1990 Jul;11(7):601–10
Pulsed Doppler evaluation of left ventricular filling in subjects with pathologic and physiologic third heart sound. Pozzoli M, et al. **Eur Heart J** 1990 Jun;11(6):500–8
The reproducibility of continuous wave Doppler measurements in the assessment of mitral stenosis or mitral prosthetic function: the relative contributions of heart rate, respiration, observer variability and their clinical relevance. Rijsterborgh H, et al. **Eur Heart J** 1990 Jul;11(7):592–600
The 1980's renaissance in cardiac imaging: the role of ultrasound. Roelandt J, et al. **Eur Heart J** 1989 Aug; 10(8):680–3
Validation of continuous-wave Doppler measurements of mitral valve gradients during exercise—a simultaneous Doppler-catheter study. Voelker W, et al. **Eur Heart J** 1989 Aug;10(8):737–46
Flow analysis in the pulmonary trunc in fetuses with tetralogy of Fallot by colour Doppler flow mapping; two case reports. Gembruch U, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 May–Jun; 35(2–3):259–65
Fetal echocardiography: the role of the screening procedure. Rustico MA, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Jul–Aug;36(1–2):19–25
Magnetic resonance imaging in congenital heart disease of newborns: preliminary results in 23 patients. Kastler B, et al. **Eur J Radiol** 1990 Mar–Apr;10(2):109–17
Attempts at measuring pulmonary arterial pressure by means of Doppler echocardiography in patients with chronic lung disease. Torbicki A, et al. **Eur Respir J** 1989 Oct; 2(9):856–60
Exercise Doppler echocardiography in patients with pure mitral stenosis. Moro E, et al. **G Ital Cardiol** 1989 Jun; 19(6):477–82
Limited atrial compensation to reduced early diastolic filling in hypertensive patients with advanced left ventricular hypertrophy: a Doppler echocardiographic study. Kitabatake A, et al. **Heart Vessels** 1989;5(1):33–40
Follow-up of balloon aortic valvuloplasty in young adults—a combined hemodynamic and Doppler echocardiographic study. Arora R, et al. **Indian Heart J** 1989 Sep–Oct; 41(5):314–7
An evaluation of cardiac function in malnourished children by non-invasive methods. Singh GR, et al. **Indian Pediatr** 1989 Sep;26(9):875–81
Cardiac involvement by non-Hodgkin's lymphoma in acquired immune deficiency syndrome. Dalli E, et al. **Int J Cardiol** 1990 Feb;26(2):223–5
Mitral regurgitation: parameters that affect the correlation between Doppler echocardiography and contrast ventriculography. Gal RA, et al. **Int J Cardiol** 1990 Jul; 28(1):87–93
Diagnostic criteria of interatrial defects: a single gate pulsed Doppler echocardiographic study. Oberhoffer R, et al. **Int J Cardiol** 1989 Nov;25(2):167–71
Doppler echocardiographic findings in coronary-pulmonary fistula. Said S. **Int J Cardiol** 1989 Dec;25(3):343–6
The use of colour Doppler in fetal echocardiography. Sharland GK, et al. **Int J Cardiol** 1990 Aug;28(2):229–36
Doppler echocardiography in aortic stenosis: feasibility and clinical impact. Shub C, et al. **Int J Cardiol** 1990 Jul; 28(1):57–66
Intermittent to-and-fro murmur in cardiac pseudoaneurysm: Doppler echocardiographic findings. Turgeman Y, et al. **Int J Cardiol** 1990 Mar;26(3):376–7
Valvular regurgitation in heart-lung transplant recipients: a Doppler color flow study. Akasaka T, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):576–81
Prospective detection by Doppler color flow imaging of additional defects in infants with a large ventricular septal defect [see comments] Chin AJ, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1637–42 Comment in: J Am Coll Cardiol 1990 Jun;15(7):1643–4.
Can two-dimensional echocardiography and Doppler color flow mapping identify the need for tricuspid valve repair? [see comments] Chopra HK, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1266–74 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1275–7.
Validation and applications of indexed aortic prosthetic valve areas calculated by Doppler echocardiography. Dumesnil JG, et al. **J Am Coll Cardiol** 1990 Sep;16(3):637–43
Aortic regurgitation shortens Doppler pressure half-time in mitral stenosis: clinical evidence, in vitro simulation and theoretic analysis. Flachskampf FA, et al. **J Am Coll Cardiol** 1990 Aug;16(2):396–404
Color Doppler echocardiography, Fred Astaire and the magic of Hollywood [editorial; comment] Freedom RM. **J Am Coll Cardiol** 1990 Jun;15(7):1643–4 Comment on: J Am Coll Cardiol 1990 Jun;15(7):1637–42.
Ultrasonic aortic valve decalcification: serial Doppler echocardiographic follow-up [see comments] Freeman WK, et al. **J Am Coll Cardiol** 1990 Sep;16(3):623–30 Comment in: J Am Coll Cardiol 1990 Sep;16(3):631–2.
Comparison of coronary hemodynamics in patients with internal mammary artery and saphenous vein coronary artery bypass grafts: a noninvasive approach using combined two-dimensional and Doppler echocardiography [see comments] Fusejima K, et al. **J Am Coll Cardiol** 1990 Jan;15(1):131–9 Comment in: J Am Coll Cardiol 1990 Jan;15(1):140–2.
A perspective on color-coded Doppler echocardiography: utility or just another pretty picture? [editorial] Goldberg SJ. **J Am Coll Cardiol** 1989 Oct;14(4):977–8
Day to day variability of Doppler color flow jets in mitral regurgitation. Grayburn PA, et al. **J Am Coll Cardiol** 1989 Oct;14(4):936–40
Effect of heart rate on Doppler indexes of systolic function in humans. Harrison MR, et al. **J Am Coll Cardiol** 1989 Oct;14(4):929–35
Doppler echocardiographic quantitation of cross-sectional area under various hemodynamic conditions: an experimental validation in a canine model of supravalvular aortic stenosis. Kitabatake A, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1654–61
Comprehensive Doppler assessment of right ventricular diastolic function in cardiac amyloidosis. Klein AL, et al. **J Am Coll Cardiol** 1990 Jan;15(1):99–108
Insights into the physiologic significance of the mitral inflow velocity pattern [comment] Levine RA, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1718–20 Comment on: J Am Coll Cardiol 1989 Dec;14(7):1712–7.
Duplex Doppler evaluation of coronary artery and bypass graft flow: a practical clinical tool? [comment] Lighty GW Jr. **J Am Coll Cardiol** 1990 Jan;15(1):140–2 Comment on: J Am Coll Cardiol 1990 Jan;15(1):131–9.
Echocardiographic evaluation of the spectrum of cardiac anomalies associated with trisomy 13 and trisomy 18. Musewe NN, et al. **J Am Coll Cardiol** 1990 Mar 1; 15(3):673–7
Doppler echocardiographic measurement of pulmonary artery pressure from ductal Doppler velocities in the newborn [see comments] Musewe NN, et al. **J Am Coll Cardiol** 1990 Feb;15(2):446–56 Comment in: J Am Coll Cardiol 1990 Feb;15(2):457–8.
Characteristic Doppler echocardiographic pattern of mitral inflow velocity in severe aortic regurgitation [see comments] Oh JK, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1712–7 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1718–20.
Doppler echocardiographic evaluation of stenotic bioprosthetic aortic valves [editorial; comment] Otto CM, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):825–6 Comment on: J Am Coll Cardiol 1990 Mar 15;15(4):817–24.
Color Doppler echocardiographic evaluation of patients with a flail mitral leaflet. Pearson AC, et al. **J Am Coll Cardiol** 1990 Jul;16(1):232–9
Restrictive ventricular physiology as demonstrated by Doppler echocardiography [letter; comment] Peteiro J, et al. **J Am Coll Cardiol** 1990 Feb;15(2):508–9 Comment on: J Am Coll Cardiol 1988 Apr;11(4):757–68.
Determination of aortic valve area by two-dimensional and Doppler echocardiography in patients with normal and stenotic bioprosthetic valves [see comments] Rothbart RM, et al. **J Am Coll Cardiol** 1990 Mar 15;15(4):817–24 Comment in: J Am Coll Cardiol 1990 Mar 15;15(4):825–6.
Doppler color flow mapping in the diagnosis of ventricular septal rupture and acute mitral regurgitation after myocardial infarction. Smyllie JH, et al. **J Am Coll Cardiol** 1990 May;15(6):1449–55
Analysis of the early transmitral Doppler velocity curve: effect of primary physiologic changes and compensatory preload adjustment. Thomas JD, et al. **J Am Coll Cardiol** 1990 Sep;16(3):644–55
Diagnosis of coronary artery fistula by two-dimensional echocardiography, pulsed Doppler ultrasound and color flow imaging. Velvis H, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):968–76
Fourth International Congress on Cardiac Doppler. Anaheim, California, March 16–18, 1989. Abstracts. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):208–27
Hemodynamics for the sonographer. Adams DB, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):158–60
Flow velocity acceleration in the left ventricle: a useful Doppler echocardiographic sign of hemodynamically significant mitral regurgitation. Appleton CP, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):35–45
Reliability of M-mode, two-dimensional and Doppler echocardiography in diagnosing a flail mitral valve leaflet. Avgeropoulou CC, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):433–45
Avoidance of retrograde catheterization by Doppler echocardiographic diagnosis of Björk-Shiley aortic valve dysfunction. Baron SB, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):273–4
Prospective validation of detection and quantitative assessment of chronic aortic regurgitation by a combined echocardiographic and Doppler method. Borrás X, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):422–9
Precise evaluation of a complex coronary arteriovenous fistula: the utility of transesophageal color Doppler. Calafiore PA, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct; 2(5):337–41
Traumatic intracardiac communication: detection by color flow mapping. Clyne CA, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct;2(5):342–5
Doppler ultrasound diagnosis of aortic subvalvular pseudoaneurysm with left ventricular fistula. Comess KA, et al. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):226–30
Evaluation of valvular regurgitation by color Doppler. Cooper JW, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb; 2(1):56–66 (18 ref.)
Aortic dissection and rupture that produce right ventricular perforation: detection by echocardiography and color flow mapping. Davies NJ, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):140–4
Pulsus alternans with alternation of mitral flow and motion patterns. D'Cruz IA, et al. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):187–90
Predictive value of pulsed Doppler echocardiography in acute myocardial infarction. Delemarre BJ, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):102–9
Pulsed Doppler echocardiographic description of a circular flow pattern in spontaneous left ventricular contrast. Delemarre BJ, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr; 1(2):114–8
High flow velocity across a complicated atrial septal defect: Doppler findings and hemodynamic correlations. Goldfarb A, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):348–50
Analysis of Doppler-obtained velocity curves in functional evaluation of mechanical prosthetic valves in the mitral and aortic positions. Goldrath N, et al. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):211–25
Internal consistency of echocardiographic estimates of the

severity of left ventricular outflow obstruction. Gutgesell HP, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr;2(2):88–93

Left atrial systolic antegrade flow in patients with mitral regurgitation: a pulsed Doppler sign displayed by color flow imaging. Habbab MA, et al.
J Am Soc Echocardiogr 1989 Sep–Oct;2(5):331–6

Premature constriction of the ductus arteriosus. Huhta JC, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):30–4

Doppler characteristics of late–diastolic flow in the left ventricular outflow tract. Jaeger KM, et al.
J Am Soc Echocardiogr 1990 May–Jun;3(3):179–86

Inferior vena cava stenosis in scimitar syndrome: a case report. Jimenez M, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):152–4

Aortic dissection: review of value and limitations of two–dimensional echocardiography in a six–year experience. Khandheria BK, et al.
J Am Soc Echocardiogr 1989 Jan–Feb;2(1):17–24

Lipomatous hypertrophy of the interatrial septum: characterization by transesophageal and transthoracic echocardiography, magnetic resonance imaging, and computed tomography. Kindman LA, et al.
J Am Soc Echocardiogr 1988 Nov–Dec;1(6):450–4

Age–related prevalence of valvular regurgitation in normal subjects: a comprehensive color flow examination of 118 volunteers. Klein AL, et al. **J Am Soc Echocardiogr** 1990 Jan–Feb;3(1):54–63

Two–dimensional and Doppler echocardiographic assessment of infiltrative cardiomyopathy. Klein AL, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):48–59 (75 ref.)

Doppler echocardiography in the human fetus. Kleinman CS, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):287–90 (32 ref.)

Doppler atrial shunt flow patterns in patients with secundum atrial septal defect: determinants, limitations, and pitfalls. Lin FC, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr; 1(2):141–9

Tricuspid regurgitation in children: a pulsed Doppler, contrast echocardiographic and angiographic comparison. Martin GR, et al. **J Am Soc Echocardiogr** 1988 Jul–Aug; 1(4):257–63

Regurgitant flow in apparently normal valve prostheses: improved detection and semiquantitative analysis by transesophageal two–dimensional color–coded Doppler echocardiography. Mohr–Kahaly S, et al.
J Am Soc Echocardiogr 1990 May–Jun;3(3):187–95

Mitral flow velocity curves as a function of different loading conditions: evaluation by intraoperative transesophageal Doppler echocardiography. Nishimura RA, et al.
J Am Soc Echocardiogr 1989 Mar–Apr;2(2):79–87

Simplification of the Doppler continuity equation for calculating stenotic aortic valve area. Otto CM, et al.
J Am Soc Echocardiogr 1988 Mar–Apr;1(2):155–7

Echocardiographic and Doppler assessment of hypertrophic cardiomyopathy. Rakowski H, et al.
J Am Soc Echocardiogr 1988 Jan–Feb;1(1):31–47 (44 ref.)

Normal values of prosthetic valve Doppler echocardiographic parameters: a review. Reisner SA, et al. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):201–10 (32 ref.)

The role of the cardiac sonographer in the evaluation of the heart transplant recipient. Reynolds T, et al.
J Am Soc Echocardiogr 1989 Nov–Dec;2(6):431–8 (29 ref.)

Lower extremity venous imaging for the echocardiologist. Rooke TW, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr; 3(2):158–69 (25 ref.)

False inferior pseudoaneurysm: two–dimensional and Doppler echocardiographic findings. Rosenfeld J, et al.
J Am Soc Echocardiogr 1988 Sep–Oct;1(5):351–3

Quantitation of mitral stenosis. Ryan TJ.
J Am Soc Echocardiogr 1988 Jul–Aug;1(4):306–7

Doppler echocardiographic measurement of outflow tract gradient in hypertrophic cardiomyopathy. Ryan TJ.
J Am Soc Echocardiogr 1988 Nov–Dec;1(6):471–2

Assessment of pulmonary artery pressure with Doppler ultrasound. Ryan TJ. **J Am Soc Echocardiogr** 1988 May–Jun;1(3):253–4

Evaluation of the coronary arteries with echocardiographic and Doppler techniques. Ryan TJ.
J Am Soc Echocardiogr 1988 May–Jun;1(3):252–3

Estimating severity of aortic regurgitation with Doppler techniques. Ryan TJ. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):168–9

Comparison of peak and modal aortic blood flow velocities with invasive measures of left ventricular performance. Sagar KB, et al. **J Am Soc Echocardiogr** 1988 May–Jun; 1(3):194–200

Dynamic left ventricular outflow obstruction after aortic valve replacement: a Doppler echocardiographic study. Schwinger ME, et al. **J Am Soc Echocardiogr** 1990 May–Jun;3(3):205–8

Echocardiography in congestive or dilated cardiomyopathy. Shah PM. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):20–30 (55 ref.)

Abnormal diastolic flow patterns in hypertrophic cardiomyopathy: evaluation by simultaneous Doppler echocardiography, cineangiography, and hemodynamics. Silverman PR, et al. **J Am Soc Echocardiogr** 1989 Sep–Oct; 2(5):346–9

Descent of the base of the left ventricle: an echocardiographic index of left ventricular function [see comments] Simonson JS, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):25–35 Comment in: J Am Soc Echocardiogr 1990 Jan–Feb;3(1):78.

Hydrodynamic investigation of a hemodynamic problem: a review of the in vitro evaluation of mitral insufficiency by color Doppler flow mapping. Simpson IA, et al.
J Am Soc Echocardiogr 1989 Jan–Feb;2(1):67–72

Pressure half–time in aortic regurgitation: evaluation with Doppler in a cardiovascular hydromechanical simulator and in a computer model. Slørdahl SA, et al.
J Am Soc Echocardiogr 1990 Jan–Feb;3(1):46–53

Use of continuous wave Doppler echocardiography to evaluate the hemodynamic importance of atrial systole in patients with mitral stenosis. Stojnić B, et al.
J Am Soc Echocardiogr 1989 May–Jun;2(3):172–6

Traumatic left ventricular false aneurysm with significant regurgitation from left ventricular outflow tract to left atrium: delineation by two–dimensional and color flow Doppler echocardiography. Taliercio CP, et al.
J Am Soc Echocardiogr 1988 Sep–Oct;1(5):354–8

Echocardiographic contrast increases the yield for right ventricular pressure measurement by Doppler echocardiography. Torres F, et al.
J Am Soc Echocardiogr 1989 Nov–Dec;2(6):419–24

Doppler color flow imaging in detection and mapping of left coronary artery fistula to right ventricle and atrium. Trask JL, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr; 3(2):131–4

Echocardiographic diagnosis of atrioventricular septal perforation caused by an aortic valve vegetation. Trehan N, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):150–1

Diagnosis of unsuspected atrial septal defect in the adult by color Doppler echocardiography. Tunick PA, et al.
J Am Soc Echocardiogr 1989 Mar–Apr;2(2):151–3

Aorta to right atrium fistula caused by endocarditis: diagnosis by color Doppler echocardiography. Tunick PA, et al.
J Am Soc Echocardiogr 1989 Jan–Feb;2(1):53–5

Diagnosis of patent ductus arteriosus by serendipity in the adult. Tunick PA, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):446–9

Color Doppler flow mapping in the ultrasound diagnosis of total anomalous pulmonary venous connection. Van Hare GF, et al. **J Am Soc Echocardiogr** 1988 Sep–Oct;1(5):341–7

Two–dimensional echocardiographic and color flow Doppler detection of an unusual pulmonary venous anomaly: anomalous right pulmonary venous return to the right atrium by way of three separate orifices. Vermilion RP, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):135–9

The effect of changes in afterload on Doppler echocardiographic indexes of left ventricular performance. Wallmeyer K, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr; 1(2):135–40

Doppler diagnosis of left ventricle to coronary sinus fistula: an unusual complication of mitral valve replacement. Yee GW, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec; 1(6):458–62

Doppler echocardiography: application to the assessment of successful thrombolysis of prosthetic valve thrombosis. Zoghbi WA, et al. **J Am Soc Echocardiogr** 1989 Mar–Apr; 2(2):98–101

Severity of mitral regurgitation in mitral valve prolapse syndrome. A Doppler echocardiographic study. Jose VJ, et al. **J Assoc Physicians India** 1989 Nov;37(11):692–4

Echocardiographic and Doppler evaluation of left ventricular hypertrophy and diastolic function in black and white hypertensive patients. Rittoo D, et al.
J Hum Hypertens 1990 Apr;4(2):113–5

Right ventricular wall thickness and function in hypertensive patients with and without left ventricular hypertrophy: echo–Doppler study. Cuspidi C, et al.
J Hypertens Suppl 1989 Dec;7(6):S108–9

Limitation of 2 dimensional color Doppler echocardiography in the diagnosis of congenital heart disease. Sueblinvong V. **J Med Assoc Thai** 1990 Mar;73(3):157–61

A comparison of thermodilution and pulsed Doppler cardiac output measurement in critically ill children. Notterman DA, et al. **J Pediatr** 1989 Oct;115(4):554–60

Doppler estimates of cardiac output [letter] Rennie J, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):165–6

Routine use of intraoperative epicardial echocardiography and Doppler color flow imaging to guide and evaluate repair of congenital heart lesions. A prospective study. Ungerleider RM, et al. **J Thorac Cardiovasc Surg** 1990 Aug; 100(2):297–309

The value of Doppler echocardiography in the treatment of tricuspid regurgitation in patients with mitral valve replacement. Perioperative and two–year postoperative findings. Wong M, et al. **J Thorac Cardiovasc Surg** 1990 Jun;99(6):1003–10

Two–dimensional and Doppler echocardiographic features of coronary arteriovenous fistula. Report of three cases. Fang BR, et al. **J Ultrasound Med** 1990 Jan;9(1):39–43

Assessment of valvular heart disease with Doppler echocardiography. Lee RT, et al. **JAMA** 1989 Oct 20; 262(15):2131–5 (30 ref.)

Phasic flow in the left ventricular inflow tract: the importance of Doppler sample volume position. Delemarre BJ, et al. **JCU** 1988 May;16(4):227–32

Doppler echocardiographic approach to the blood flow of the left anterior descending coronary artery. Miyatake K, et al. **JCU** 1988 Sep;16(7):471–81

Quantitative color flow imaging to measure the two–dimensional distribution of blood flow velocity and the flow rate. Kitabatake A, et al. **Jpn Circ J** 1990 Mar; 54(3):304–8

Quantitative evaluation of pulmonary regurgitation after repair of tetralogy of Fallot using real–time flow imaging system. Kobayashi J, et al. **Jpn Circ J** 1989 Jul;53(7):721–7

Evaluation of left–sided valvular regurgitation in healthy, hypertensive and myocardial infarction subjects by Doppler echocardiography. Morita H, et al. **Jpn Circ J** 1990 Mar;54(3):292–7

Noninvasive assessment of left ventricular diastolic filling in coronary artery disease by Doppler dipyridamole–stress testing. Tomimoto S, et al. **Jpn Heart J** 1989 Nov; 30(6):765–78

Doppler measurement of cardiac output across prosthetic mitral valves. Dittmann H, et al. **Klin Wochenschr** 1990 Mar 5;68(5):263–8

Doppler echocardiographic analysis of diastolic left ventricular function in dialysis patients and its relation to intradialytic hypotension. Punzengruber C, et al.
Klin Wochenschr 1989 Aug 17;67(16):826–32

Doppler estimation of pressure gradient in pulmonary stenosis: maximal instantaneous vs peak–to–peak, vs mean catheter gradient. Aldousany AW, et al. **Pediatr Cardiol** 1989 Summer;10(3):145–9

Aortopulmonary window coexisting with tetralogy of Fallot: echocardiographic diagnosis. Carminati M, et al.
Pediatr Cardiol 1990 Jan;11(1):41–3

Congenital mitral regurgitation caused by a perforation in the anterior leaflet: perioperative evaluation by color–coded Doppler echocardiography. Schranz D, et al.
Pediatr Cardiol 1990 Apr;11(2):93–5

Doppler echocardiography. Role in emergency diagnosis of cardiac valve disease. Baron SB, et al. **Postgrad Med** 1990 May 1;87(6):85–8, 91–3, 96–8

Prenatal diagnosis of aortic atresia by colour Doppler flow mapping. Gembruch U, et al. **Prenat Diagn** 1990 Apr; 10(4):211–7

Doppler echocardiographic findings in healthy Chinese adults. Chiang CW, et al.
Taiwan I Hsueh Hui Tsa Chih 1989 Aug;88(8):772–7

Determination of tissue motion velocity by correlation interpolation of pulsed ultrasonic echo signals. de Jong PG, et al. **Ultrason Imaging** 1990 Apr;12(2):84–98

Evaluation of fetal structural heart disease using color flow mapping. Chiba Y, et al. **Ultrasound Med Biol** 1990; 16(3):221–9

Computer evaluation of Doppler spectral envelope area in patients having a valvular aortic stenosis. Cloutier G, et al. **Ultrasound Med Biol** 1990;16(3):247–60

[Clinical study of fetal echocardiography]
Chung Hua Fu Chan Ko Tsa Chih 1989 Sep;24(5):268–71, 316 (Eng. Abstr.) **(Chi)**

[Fetal Doppler echocardiography] Yu WG, et al.
Chung Hua Fu Chan Ko Tsa Chih 1990 May;25(3):173–5 (20 ref.) **(Chi)**

[Measuring the interventricular pressure gradient in ventricular septal defects in children using continuous wave Doppler] Chen SB, et al.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1989 Oct; 17(5):295–6 **(Chi)**

[Diagnosis of complete transposition of great arteries by 2–dimensional echocardiography] Deng DA.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1989 Aug; 17(4):227–8 **(Chi)**

[Measuring the right heart output by pulsed Doppler echocardiography] Jing ZG.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1989 Aug; 17(4):224–6 **(Chi)**

[Evaluation of prosthetic valvular regurgitation by color Doppler echocardiography] Su H.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1990 Feb; 18(1):15–6, 61 (Eng. Abstr.) **(Chi)**

[A study of intracardiac blood flow rate by Doppler echocardiogram in healthy Chinese adults of various ages] Sun JP. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Jun;17(3):155–8 **(Chi)**

[Echocardiographic assessment of left ventricular structure and function in patients with mild hypertension] Zhang XX. **Chung Hua I Hsueh Tsa Chih** 1989 Jun;69(6):335–7 **(Chi)**

[The changes in and clinical significance of Doppler echocardiography in patients with acute myocardial infarction] Sun JP, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec;28(12):708–10, 766 (Eng. Abstr.) **(Chi)**

[Clinical study of fetal echocardiography] Zhu WL.
Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1989 Aug; 11(4):283–6 (Eng. Abstr.) **(Chi)**

[Color–coded doppler echocardiography in atrial septal defects] Kautzner J, et al. **Cas Lek Cesk** 1990 Apr 20; 129(16):488–93 (Eng. Abstr.) **(Cze)**

[Noninvasive quantification of the severity of aortic defects using the Doppler method] Niederle P, et al.
Cas Lek Cesk 1990 Jul 20;129(29):902–6 (Eng. Abstr.) **(Cze)**

[The present possibilities of quantitative Doppler echocardiography using pulse and continuous technics. II. Evaluation of cardiac hemodynamics] Stárek A, et al.
Cas Lek Cesk 1989 Aug 25;128(35):1089–93 (Eng. Abstr.) **(Cze)**

[Correlation of Doppler echocardiography and EEG findings in stenotic processes in the carotid arteries] Spaček M, et al.

Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl 1989;32(5):605–9 (Eng. Abstr.) (Cze)

[Diastolic function of the hypertrophic left cardiac ventricle in hypertensive patients evaluated with Doppler echocardiography] Spaček R, et al. Vnitr Lek 1989 Oct; 35(10):952–8 (Eng. Abstr.) (Cze)

[Contribution of two-dimensional echocardiography to the diagnosis of abnormalities of the left coronary artery originating in the trunk of the pulmonary artery] Allal J, et al. Ann Cardiol Angeiol (Paris) 1989 Nov;38(9):535–8 (17 ref.) (Eng. Abstr.) (Fre)

[Evaluation of the left-to-right shunt in interatrial septal defects (ostium secundum) using Doppler echocardiography. Apropos of 12 cases] Beigbeder JY, et al. Ann Cardiol Angeiol (Paris) 1989 Nov;38(9):549–54 (Eng. Abstr.) (Fre)

[Correlation of the vectorcardiographic, echocardiographic parameters and hemodynamics in valvular aortic stenosis] Brohet C, et al. Ann Cardiol Angeiol (Paris) 1990 Apr; 39(4):219–24 (Eng. Abstr.) (Fre)

[Diagnostic, prognostic and therapeutic value of Doppler echocardiography in pulmonary embolism. Apropos of 41 cases] Chapouiot L, et al. Ann Cardiol Angeiol (Paris) 1989 Nov;38(9):523–9 (Eng. Abstr.) (Fre)

[Differential analysis of mitral and tricuspid regurgitation by continuous Doppler] Pollet E, et al. Ann Cardiol Angeiol (Paris) 1990 Mar;39(3):149–52 (Eng. Abstr.) (Fre)

[Transesophageal, anatomic and Doppler echocardiography. Technic, indications, interpretation (published erratum appears in Ann Cardiol Angeiol (Paris) 1989 Oct;38(8):453)] Scheublé C, et al. Ann Cardiol Angeiol (Paris) 1989 Sep 30;38(7 Pt 2):463–76 (Eng. Abstr.) (Fre)

[Study of left ventricular diastolic function using pulsed Doppler in myocardial infarct in hypertensive subjects] Boudjemaa B, et al. Arch Mal Coeur 1989 Jul;82(7):1121–7 (Eng. Abstr.) (Fre)

[Evaluation by Doppler echocardiography of systolic and diastolic functions of the left ventricle of the athlete's heart] Cohen A, et al. Arch Mal Coeur 1989 Aug;82 Spec No 2:55–62 (Eng. Abstr.) (Fre)

[Study of the etiologic mechanism of valvular regurgitation using Doppler echography] Cormier B, et al. Arch Mal Coeur 1990 May;83(6):805–14 (Eng. Abstr.) (Fre)

[Aorta-left ventricle coupling in permanent arterial hypertension using Doppler echocardiography] Dahan M, et al. Arch Mal Coeur 1989 Jul;82(7):1115–20 (Eng. Abstr.) (Fre)

[Noninvasive measurement of cardiac output by pulsed Doppler echocardiography. Correlation with thermodilution] Dericbourg C, et al. Arch Mal Coeur 1990 Feb;83(2):237–44 (30 ref.) (Eng. Abstr.) (Fre)

[Hypertrophic cardiomyopathy. Data from Doppler echocardiography] Dubourg O, et al. Arch Mal Coeur 1990 May;83(6):783–92 (Eng. Abstr.) (Fre)

[Dipyridamole echocardiography test during the acute phase of lower myocardial infarction] Duval AM, et al. Arch Mal Coeur 1990 Feb;83(2):223–7 (Eng. Abstr.) (Fre)

[Evaluation of pulmonary arterial hypertension by Doppler echocardiography in chronic respiratory insufficiency] Gallet B, et al. Arch Mal Coeur 1989 Sep;82(9):1575–83 (Eng. Abstr.) (Fre)

[Value of cine magnetic resonance imaging in the diagnosis and quantification of valvular regurgitation. Comparison with angiography and Doppler echocardiography] Germain P, et al. Arch Mal Coeur 1989 Oct;82(10):1659–68 (Eng. Abstr.) (Fre)

[Doppler echocardiography in myocardial infarction and its complications] Guéret P, et al. Arch Mal Coeur 1990 May; 83(6):765–79 (Eng. Abstr.) (Fre)

[Pulsed Doppler echography in the quantification of aortic insufficiency in adults] Habib G, et al. Arch Mal Coeur 1989 Jul-Aug;82(8):1405–11 (Eng. Abstr.) (Fre)

[Contribution of Doppler echocardiography to the evaluation and monitoring of normal and pathologic mitral valve prostheses] Habib G, et al. Arch Mal Coeur 1990 Apr; 83(4):469–77 (Eng. Abstr.) (Fre)

[Detection of acute rejection by Doppler echocardiography in orthotopic cardiac transplantation. Prospective comparative study with endomyocardial biopsy] Habib G, et al. Arch Mal Coeur 1989 Sep;82(9):1535–41 (Eng. Abstr.) (Fre)

[Contribution of Doppler echocardiography in the evaluation of normal and pathologic aortic valve prosthesis] Habib G, et al. Arch Mal Coeur 1990 Jun;83(7):937–45 (Eng. Abstr.) (Fre)

[Contribution of Doppler echocardiography and thallium in cases of major ST segment depression in athletes] Labbe T, et al. Arch Mal Coeur 1989 Aug;82 Spec No 2:63–71 (Eng. Abstr.) (Fre)

[Changes in mitral and tricuspid blood flow as a function of aging. Value of a combined study with Doppler echocardiography] Legeais S, et al. Arch Mal Coeur 1990 Apr;83(4):503–10 (27 ref.) (Eng. Abstr.) (Fre)

[Mid-term results of 50 percutaneous aortic valvuloplasties. Follow-up studies using Doppler echocardiography] Lesbre JP, et al. Arch Mal Coeur 1990 Feb;83(2):183–90 (20 ref.) (Eng. Abstr.) (Fre)

[Acute dysfunction of mitral bioprosthesis: Doppler expression of a musical holosystolic murmur. Apropos of 2 cases] Metz D, et al. Arch Mal Coeur 1989 Sep; 82(9):1617–21 (Eng. Abstr.) (Fre)

[Unilateral left agenesis of the pericardium. Contribution of cardiac imaging] Millaire A, et al. Arch Mal Coeur 1990 Feb;83(2):275–80 (Eng. Abstr.) (Fre)

[Doppler echocardiographic evaluation of right heart pressure in children with ventricular septal defect] Nascimento L, et al. Arch Mal Coeur 1990 May; 83(5):689–93 (Eng. Abstr.) (Fre)

[Study of valvular prostheses by Doppler echography] Raffoul H, et al. Arch Mal Coeur 1990 May;83(6):853–61 (Eng. Abstr.) (Fre)

[Follow-up of surgically treated congenital heart disease using Doppler echocardiography] Rey C, et al. Arch Mal Coeur 1990 May;83(6):863–74 (Eng. Abstr.) (Fre)

[Doppler echocardiographic study of hemodynamic changes of double stimulation mode and atrial detection in patients with dual chamber pacemaker. Value of hysteresis of the atrioventricular delay] Rey JL, et al. Arch Mal Coeur 1990 Jun;83(7):961–6 (Eng. Abstr.) (Fre)

[Study of infectious endocarditis using Doppler echocardiography] Roudaut R, et al. Arch Mal Coeur 1990 May;83(6):793–803 (23 ref.) (Eng. Abstr.) (Fre)

[Left ventricular filling in treated essential hypertension. A study using Doppler echocardiography] Roul G, et al. Arch Mal Coeur 1990 Jan;83(1):37–43 (Eng. Abstr.) (Fre)

[Strategy for quantification of valvular regurgitations by Doppler echocardiography] Scheublé C, et al. Arch Mal Coeur 1990 May;83(6):823–37 (42 ref.) (Eng. Abstr.) (Fre)

[Echocardiographic-Doppler study of a case of subacute and incomplete parietal rupture after myocardial infarction] Terdjman M, et al. Arch Mal Coeur 1989 Dec;82(12):2065–9 (Eng. Abstr.) (Fre)

[Hemodynamic measurements by Doppler echocardiography] Touche T. Arch Mal Coeur 1990 May; 83(6):815–21 (19 ref.) (Eng. Abstr.) (Fre)

[Quantification of valvular stenosis by Doppler echography] Tribouilloy C, et al. Arch Mal Coeur 1990 May; 83(6):839–52 (54 ref.) (Eng. Abstr.) (Fre)

[A new quantitative method for quantifying left heart jets by Doppler color imaging] Veyrat C, et al. Arch Mal Coeur 1989 Nov;82(11):1827–36 (Eng. Abstr.) (Fre)

[Doppler echocardiography. Perspectives for the 1990's. Symposium, Munich, 2 and 3 December 1989. Abstracts] Bildgebung 1987–89;56 Suppl 3:1–28 (Ger)

[Echocardiography and Doppler echocardiography in mitral valve stenosis. A review] Nowak B, et al. Bildgebung 1987–89;56(3):101–11 (94 ref.) (Eng. Abstr.) (Ger)

[Echocardiography diagnosis of persistent ductus arteriosus] Häusler HJ, et al. Kinderarztl Prax 1990 Mar;58(3):159–66 (Eng. Abstr.) (Ger)

[Vein of Galen malformation in a newborn infant with clinical symptoms of a cardiologic emergency] Kabus M, et al. Kinderarztl Prax 1990 May;58(5):247–53 (Eng. Abstr.) (Ger)

[Doppler echocardiography quantification of the regurgitant blood volume in patients with mitral valve insufficiency] Dittmann H, et al. Klin Wochenschr 1989 Sep 15; 67(18):940–5 (Eng. Abstr.) (Ger)

[Left ventricular function in young type I diabetic patients. A Doppler echocardiography study] Juhasz M, et al. Wien Klin Wochenschr 1990 Feb 2;102(3):70–4 (Eng. Abstr.) (Ger)

[Quantifying pulmonary artery hypertension by Doppler echocardiography measurement of tricuspid valve insufficiency] Zenker G, et al. Wien Med Wochenschr Suppl 1987;103:42–3 (Ger)

[New aspects in the treatment of patent ductus arteriosus in premature newborns with respiratory insufficiency] Weninger M, et al. Z Geburtshilfe Perinatol 1989 Sep–Oct; 193(5):226–9 (Eng. Abstr.) (Ger)

[Quantitative Doppler echocardiography diagnosis of congenital aortic and pulmonary artery stenoses] Häusler HJ, et al. Z Gesamte Inn Med 1990 May 1;45(9):245–7 (Eng. Abstr.) (Ger)

[Echocardiography evaluation of the surgical result in hypertrophic obstructive cardiomyopathy] Krosse B, et al. Z Gesamte Inn Med 1990 May 1;45(9):263–6 (Eng. Abstr.) (Ger)

[Pre-, intra- and postoperative echocardiography in cardiovascular diseases. Diseases of the aortic valve] Lindenau KF, et al. Z Gesamte Inn Med 1990 May 1; 45(9):237–40 (27 ref.) (Eng. Abstr.) (Ger)

[Significance of echocardiography for the diagnosis and strategy in infectious endocarditis] Steidl C, et al. Z Gesamte Inn Med 1990 May 1;45(9):241–5 (Eng. Abstr.) (Ger)

[Interobserver and spontaneous variability of Doppler echocardiography measured cardiac output in children with congenital heart defects] Stern H, et al. Z Kardiol 1990 Feb;79(2):89–95 (Eng. Abstr.) (Ger)

[Doppler echocardiography evaluation of left ventricular function in intra-aortic balloon counterpulsation] Werner GS, et al. Z Kardiol 1990 Jan;79(1):8–14 (Eng. Abstr.) (Ger)

[Doppler echocardiography in atrial myxoma] Bentivoglio M, et al. Cardiologia 1989 Sep;34(9):783–6 (Eng. Abstr.) (Ita)

[Clinical usefulness of the Doppler-echocardiographic method for evaluating intracardiac shunts. Combined Doppler and hemodynamic study] De Simone R, et al. Cardiologia 1989 Aug;34(8):689–94 (Eng. Abstr.) (Ita)

[Analysis of the diastolic function of the left ventricle by Doppler echocardiography in athletes engaged in competitive sports activities] Varani E, et al. Cardiologia 1989 Oct;34(10):855–60 (Eng. Abstr.) (Ita)

[Morphofunctional characteristics of the left ventricle in arterial hypertension: echocardiographic and Doppler study] Cuspidi C, et al. G Ital Cardiol 1990 Apr;20(4):300–8 (Eng. Abstr.) (Ita)

[Pulsed Doppler evaluation of left ventricular filling in stable and borderline juvenile arterial hypertension] Cuspidi C, et al. G Ital Cardiol 1989 Aug;19(8):674–9 (Eng. Abstr.) (Ita)

[Dynamic obstruction of the left ventricular outflow as a late complication of mitral valve replacement. Case report] Bolognesi R, et al. Minerva Cardioangiol 1989 Sep; 37(9):405–9 (Eng. Abstr.) (Ita)

[Dynamic left intraventricular obstruction in acute myocardial ischemia] Chesi G, et al. Minerva Cardioangiol 1989 Jul-Aug;37(7–8):351–3 (Eng. Abstr.) (Ita)

[Cardiocirculatory adaptations during the initial phases of pregnancy. An echo-Doppler assessment] Gaddi O, et al. Minerva Cardioangiol 1989 Nov;37(11):481–7 (Eng. Abstr.) (Ita)

[Valvular regurgitation in patients with Kawasaki disease and in healthy children: a pulsed Doppler echocardiographic study] Akagi T, et al. J Cardiol 1989 Sep;19(3):787–96 (Eng. Abstr.) (Jpn)

[Transesophageal Doppler echocardiography in the diagnosis of dissecting aortic aneurysm] Hashimoto S, et al. J Cardiol 1989 Jun;19(2):519–28 (Eng. Abstr.) (Jpn)

[Evaluation of left ventricular filling dynamics by pulsed Doppler echocardiography during afterload stress in ischemic heart disease using angiotensin II infusion] Hayashi T, et al. J Cardiol 1989 Sep;19(3):699–707 (Eng. Abstr.) (Jpn)

[Continuous wave Doppler echocardiographic evaluations of the severity of mitral regurgitation] Kisanuki A, et al. J Cardiol 1989 Sep;19(3):831–8 (Eng. Abstr.) (Jpn)

[Dissecting aortic aneurysm of DeBakey type II diagnosed by color Doppler flow imaging and treated by a Bentall surgical procedure: a case report] Kubo H, et al. J Cardiol 1988 Dec;18(4):1163–71 (Eng. Abstr.) (Jpn)

[Visualization of internal mammary artery bypass graft flow using a linear color flow mapping system with a convex type transducer] Kyo S, et al. J Cardiol 1989 Mar;19(1):1–8 (Eng. Abstr.) (Jpn)

[Responses of aortocoronary bypass graft flow to nitroglycerin, nifedipine and exercise test: a two-dimensional color Doppler echocardiographic study] Matsumura M, et al. J Cardiol 1989 Mar;19(1):9–25 (Eng. Abstr.) (Jpn)

[Evaluation of mid-ventricular obstruction of hypertrophic cardiomyopathy by real-time two-dimensional Doppler flow imaging: a case report] Matsuno Y, et al. J Cardiol 1989 Jun;19(2):627–35 (Eng. Abstr.) (Jpn)

[Quantitative assessment of pulmonary regurgitation by two-dimensional Doppler color flow imaging: postoperative evaluation of patients with tetralogy of Fallot] Miyake T, et al. J Cardiol 1989 Sep;19(3):901–10 (Eng. Abstr.) (Jpn)

[Doppler echocardiographic estimates of pressure gradients in various types of stenoses: usefulness and limitations] Nakajima T, et al. J Cardiol 1989 Sep;19(3):851–8 (Eng. Abstr.) (Jpn)

[Intraventricular flow dynamics in hypertrophic cardiomyopathy with midventricular obstruction investigated by Doppler echocardiography] Nakamura T, et al. J Cardiol 1989 Jun;19(2):455–71 (Eng. Abstr.) (Jpn)

[Effects of bathing on cardiac function in patients with myocardial infarction: hemodynamic and Doppler echocardiographic studies] Ozawa M, et al. J Cardiol 1988 Dec;18(4):979–87 (Eng. Abstr.) (Jpn)

[Left ventricular blood flow dynamics caused by ventricular premature contraction: pulsed Doppler echocardiographic study] Sanada J, et al. J Cardiol 1989 Mar;19(1):263–75 (Eng. Abstr.) (Jpn)

[Venous hum and innominate vein flow velocity in chronic anemia: a pulsed Doppler echocardiographic study] Shiota T, et al. J Cardiol 1989 Sep;19(3):885–92 (Eng. Abstr.) (Jpn)

[Bidirectional ductal shunts in the early neonatal period: evaluation by Doppler color flow imaging] Shiraishi H, et al. J Cardiol 1989 Jun;19(2):541–50 (Eng. Abstr.) (Jpn)

[Left and right ventricular cardiac outputs in early neonatal periods examined using Doppler echocardiography] Shiraishi H, et al. J Cardiol 1988 Dec;18(4):1127–37 (Eng. Abstr.) (Jpn)

[Aortic flow patterns in normal neonates with patent ductus arteriosus: evaluation by Doppler color flow imaging] Shiraishi H, et al. J Cardiol 1989 Jun;19(2):551–62 (Eng. Abstr.) (Jpn)

[Evaluation of secondary tricuspid regurgitation by intraoperative epicardial pulsed Doppler echocardiography] Tanaka M, et al. J Cardiol 1988 Dec; 18(4):1083–95 (Eng. Abstr.) (Jpn)

[Diastolic right ventricular hemodynamics in right ventricular overloads assessed by pulsed Doppler echocardiography] Tominaga T, et al. **J Cardiol** 1988 Dec; 18(4):1115–26 (Eng. Abstr.) **(Jpn)**

[Effect of isometric hand–grip exercise on left ventricular diastolic filling in patients with effort angina: a pulsed Doppler echocardiographic study] Yoshioka K, et al. **J Cardiol** 1989 Jun;19(2):433–43 (Eng. Abstr.) **(Jpn)**

[Cardiac function evaluated by Doppler echocardiography] **J Cardiol Suppl** 1989;20:45–50 **(Jpn)**

[Estimation of non–rheumatic mitral valve regurgitation by Doppler echocardiography] Fukada H, et al. **J Cardiol Suppl** 1989;22:75–8 **(Jpn)**

[Progression of idiopathic mitral valve prolapse estimated by echocardiography] Okano Y, et al. **J Cardiol Suppl** 1990; 23:73–9; discussion 80–3 (Eng. Abstr.) **(Jpn)**

[Effects of sublingual administration of nitroglycerin on left anterior descending arterial hemodynamics evaluated with Doppler echocardiography] Omori K, et al. **J Cardiol Suppl** 1989;22:97–9 **(Jpn)**

[Mental stress echocardiography for patients with mitral valve prolapse] Tei C, et al. **J Cardiol Suppl** 1990;23:61–9; discussion 70–2 (Eng. Abstr.) **(Jpn)**

[Peculiar Doppler echocardiograms showing mitral regurgitation: report of a case] Uematsu M, et al. **J Cardiol Suppl** 1989;22:45–6 **(Jpn)**

[Congestive heart failure in the elderly: severe tricuspid regurgitation by two–dimensional Doppler echocardiography] Iga K, et al. **Kokyu To Junkan** 1990 Jun;38(6):581–4 (Eng. Abstr.) **(Jpn)**

[A case of cardiac tamponade showing respiratory variation in inflow and outflow velocities in both ventricles and venous return] Shimamoto Y, et al. **Kokyu To Junkan** 1990 May;38(5):497–500 (Eng. Abstr.) **(Jpn)**

[Valvular regurgitation in patients with complete heart block by color Doppler echocardiography] Tanigawa N, et al. **Kokyu To Junkan** 1990 Jan;38(1):65–70 (Eng. Abstr.) **(Jpn)**

[Doppler echocardiographic measurement of flow velocity in cases with a Björk–Shiley aortic prosthesis and diagnosis of prosthetic valve dysfunction] Miyazawa S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jun;38(6):953–9 (Eng. Abstr.) **(Jpn)**

[Comparison of auscultation, M–mode echocardiography and color Doppler for detecting aortic regurgitation in patients without mitral stenosis] Ishimitsu T, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1451–6 **(Jpn)**

[Prediction of embolism in patient with mitral stenosis studied by two–dimensional echocardiography and blood coagulation tests] Yasaka M, et al. **Nippon Naika Gakkai Zasshi** 1989 Dec;78(12):1736–41 **(Jpn)**

[Duplex examination of the carotid artery] Lode OI. **Tidsskr Nor Laegeforen** 1990 Jan 30;110(3):380–3 (Eng. Abstr.) **(Nor)**

[Curves of aortic and mitral flow recorded by Doppler echocardiography in patients with primary hypertension] Trojnar R, et al. **Wiad Lek** 1990 Mar 1–15;43(5–6):169–74 (Eng. Abstr.) **(Pol)**

[Dynamics of left ventricular contraction in patients with myocardial infarction after hospital rehabilitation, assessed by Doppler echocardiography] Wysokiński A, et al. **Wiad Lek** 1989 Nov 15–Dec 15;42(22–24):1097–103 (Eng. Abstr.) **(Pol)**

[The incorporation of color flow mapping in echocardiographic practice] Camarano GP, et al. **Arq Bras Cardiol** 1989 Oct;53(4):191–5 (59 ref.) **(Por)**

[Doppler echocardiographic evaluation of heart transplantation] Del Castillo JM, et al. **Arq Bras Cardiol** 1989 Sep;53(3):151–5 (Eng. Abstr.) **(Por)**

[Non–invasive evaluation of systolic pressure of the pulmonary artery in patients with tricuspid regurgitation, using Doppler echocardiography] Abreu J, et al. **Rev Port Cardiol** 1990 Mar;9(3):199–203 (Eng. Abstr.) **(Por)**

[Flow patterns of a normally functioning monocuspid aortic prosthesis evaluated using Doppler echocardiography] Bernardes L, et al. **Rev Port Cardiol** 1989 Mar;8(3):191–5 (Eng. Abstr.) **(Por)**

[Valve insufficiency. Evaluation using color Doppler] Bordalo e Sá AL, et al. **Rev Port Cardiol** 1989 Mar; 8(3):211–21 (55 ref.) (Eng. Abstr.) **(Por)**

[Calculation of cardiac output using Doppler echocardiography] Cardoso AA, et al. **Rev Port Cardiol** 1989 Mar;8(3):183–8 (Eng. Abstr.) **(Por)**

[Right coronary fistula to the right atrium. Diagnosis using Doppler echocardiography with color coding] Castela EM, et al. **Rev Port Cardiol** 1989 Sep;8(9):615–7 (Eng. Abstr.) **(Por)**

[Contribution of bidimensional and pulsed Doppler echocardiography for the diagnosis of septal rupture in acute myocardial infarct] da Silva MN, et al. **Rev Port Cardiol** 1988 Jan–Feb;7(1):37–41 (Eng. Abstr.) **(Por)**

[Pulsed 2D Doppler echocardiography in pulmonary arterial hypertension] Matos P, et al. **Rev Port Cardiol** 1988 Sep–Oct;7(5):479–84 (Eng. Abstr.) **(Por)**

[Significance of Doppler echocardiography in the diagnosis and management of children with heart disease] Nascimento R, et al. **Rev Port Cardiol** 1990 Apr;9(4):303–9 (Eng. Abstr.) **(Por)**

[Echocardiographic evaluation of simple transposition of great vessels subjected to physiologic correction] Nascimento R, et al. **Rev Port Cardiol** 1989 Nov; 8(11):761–7 (Eng. Abstr.) **(Por)**

[Calculation of the pulmonary to systemic flow ratio using echo–Doppler in septal defects—correlation with oximetry] Rufino Nascimento LG, et al. **Rev Port Cardiol** 1989 Jan; 8(1):35–40 (Eng. Abstr.) **(Por)**

[Ruptured aneurysm of the sinus of Valsalva into the right ventricle—apropos of a case] Torres S, et al. **Rev Port Cardiol** 1990 Jan;9(1):51–5 (Eng. Abstr.) **(Por)**

[The Doppler echocardiographic method of determining right ventricular pressure in patients with congenital heart defects in the early postoperative period] Bagaturiia DSh. **Anesteziol Reanimatol** 1989 Jul–Aug;(4):46–9 (Eng. Abstr.) **(Rus)**

[Dopplerography and ultrasonic scanning of the internal thoracic artery and of mammary–coronary shunts] Balakhonov TV, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):7–10 (Eng. Abstr.) **(Rus)**

[Possibilities of ultrasonic methods in the diagnosis of crisscross heart] Mitina IN, et al. **Pediatriia** 1989;(8):30–8 (Eng. Abstr.) **(Rus)**

[Normal intracardiac flow in middle–aged subjects based on Doppler echocardiographic data] Ali AS, et al. **Ter Arkh** 1989;61(9):85–92 (Eng. Abstr.) **(Rus)**

[Characteristics of cardiac structure and function in young persons with so–called functional murmurs (clinical echocardiographic research)] Onishchenko EF, et al. **Ter Arkh** 1989;61(11):94–7 (Eng. Abstr.) **(Rus)**

[Potential of pulsed Doppler echocardiography in assessing the phasic activity of the left ventricle in patients with symptomatic arterial hypertension] Sergakova LM, et al. **Ter Arkh** 1990;62(4):18–21 (Eng. Abstr.) **(Rus)**

[Quantification of mitral regurgitation using Doppler echocardiography] Bogdan I, et al. **Acta Med Iugosl** 1990; 44(2):147–61 (Eng. Abstr.) **(Scr)**

[Possibilities of Doppler echocardiography—will the results of heart catheterization and angiography remain as the "gold standards" in cardiology. I] Huml D. **Med Arh** 1987; 41(5):265–72 (Eng. Abstr.) **(Scr)**

[Noninvasive evaluation of the severity of mitral valve stenosis] Huml D. **Med Arh** 1986;40(1–2):11–9 (Eng. Abstr.) **(Scr)**

[A study of left ventricle filling using pulsed Doppler in patienis with a high prevalence of atherosclerosis] González Romero S, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):493–7 (Eng. Abstr.) **(Spa)**

[Importance of color–coded Doppler in a case of interventricular communication associated with fixed subaortic stenosis] Vicente Vera T, et al. **Arch Inst Cardiol Mex** 1989 Nov–Dec;59(6):603–5 (Eng. Abstr.) **(Spa)**

[The use of pulsed Doppler in the evaluation of diastolic function in acute ischemic cardiopathy] Zabal Cerdeira C, et al. **Arch Inst Cardiol Mex** 1990 Mar–Apr;60(2):153–8 (Eng. Abstr.) **(Spa)**

[Valvulopathy (V). Surgery without catheterization in valvular cardiopathy: before and after the Doppler technic] Carreras Costa F. **Rev Esp Cardiol** 1990 Feb;43(2):97–113 (205 ref.) **(Spa)**

[Intravenous verapamil in hypertrophic myocardiopathy. A study using Doppler ultrasound] de la Morena Valenzuela G, et al. **Rev Esp Cardiol** 1990 May;43(5):310–5 (Eng. Abstr.) **(Spa)**

[Surgery of congenital cardiopathies without previous catheterization. Preoperative evaluation and surgical indication using bidimensional echocardiography and Doppler] Gómez R, et al. **Rev Esp Cardiol** 1989 Dec; 42(10):653–7 (Eng. Abstr.) **(Spa)**

[Aortico–left ventricular tunnel. Presentation of 2 new cases. Usefulness of non–invasive study] Morón A, et al. **Rev Esp Cardiol** 1990 Feb;43(2):114–8 (Eng. Abstr.) **(Spa)**

[Role of intraoperative echo–Doppler color echocardiography in cardiac surgery. Preliminary study] Vilacosta I, et al. **Rev Esp Cardiol** 1989 Oct;42(8):530–5 (Eng. Abstr.) **(Spa)**

[Usefulness of Doppler echocardiography in the diagnosis of complications in the acute phase of myocardial infarct] Moreno Yangüela M, et al. **Rev Port Cardiol** 1990 Mar; 9(3):247–59 (85 ref.) (Eng. Abstr.) **(Spa)**

ECONOMICS

[Cost–effectiveness analysis of two–dimensional/Doppler echocardiography, cardiac catheterization and angiography in the diagnosis of congenital heart disease] Zhang DN, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun; 20(2):186–9 (Eng. Abstr.) **(Chi)**

INSTRUMENTATION

Technical introduction to echocardiography. Wells PN. **Br Med Bull** 1989 Oct;45(4):829–37 (11 ref.)

Intraoperative cardiac output monitoring by transtracheal Doppler tube. Yoshitake S, et al. **Can J Anaesth** 1990 May; 37(4 Pt 2):S110

Principles and physics of Doppler. Waggoner AD, et al. **Cardiol Clin** 1990 May;8(2):173–90 (43 ref.)

The initial clinical evaluation of a transesophageal system with pulsed Doppler, continuous wave Doppler, and color flow imaging based on an annular array technology. Chapman JV, et al. **Int J Card Imaging** 1989;5(1):9–16

Transesophageal examination of the left coronary artery with a 7.5 MHz annular array two–dimensional color flow Doppler transducer. Reichert SL, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr;3(2):118–24

[Simulation of signals of the ultrasound color Doppler effect in flow through artificial heart valves] Malaviya A, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:115–6 **(Ger)**

[Microcomputer–assisted evaluation of intracoronary Doppler flow measurements] Rupprecht HJ, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:117–8 **(Ger)**

[Image processing of the flow through artificial heart valves] Walker P, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:113–4 **(Ger)**

[Color–coded M–mode Doppler echocardiography in the diagnosis of fetal arrhythmia] Gembruch U, et al. **Geburtshilfe Frauenheilkd** 1990 Apr;50(4):286–90 (Eng. Abstr.) **(Ger)**

[Validation of a Doppler catheter for intravascular flow measurement in vivo. A comparison with simultaneous electromagnetic flow measurement] Voelker W, et al. **Ultraschall Med** 1990 Apr;11(2):91–4 (Eng. Abstr.) **(Ger)**

[Transesophageal echocardiography in pre– and postoperative diagnosis of heart diseases] Linss G. **Z Gesamte Inn Med** 1990 May 1;45(9):247–52 (21 ref.) (Eng. Abstr.) **(Ger)**

[Color Doppler echocardiography—possibilities and limits of a new procedure] Redel DA. **Z Kardiol** 1989;78 Suppl 7:117–21 (20 ref.) (Eng. Abstr.) **(Ger)**

[Accuracy of various Doppler technics in recording blood flow velocity. Studies in vitro] von Bibra H, et al. **Z Kardiol** 1990 Feb;79(2):73–82 (Eng. Abstr.) **(Ger)**

[Comparative study of digitalized M–mode and Doppler echocardiography in assessing left ventricular function] Szabóki F, et al. **Orv Hetil** 1990 Feb 4;131(5):223–7 (24 ref.) (Eng. Abstr.) **(Hun)**

METHODS

Duplex versus unguided pulsed Doppler measurements of right ventricular output in newborn infants. Walther FJ, et al. **Acta Paediatr Scand** 1990 Jan;79(1):41–6

Comparative accuracy of Doppler echocardiographic methods for clinical stroke volume determination. Dubin J, et al. **Am Heart J** 1990 Jul;120(1):116–23

Right atrial infarction and cardiogenic shock complicating acute myocardial infarction: diagnosis by transesophageal echocardiography. Hilton TC, et al. **Am Heart J** 1990 Aug; 120(2):427–30

Diagnosis and documentation of healing in descending thoracic aortic dissection by transesophageal echocardiography and Doppler color flow imaging. Hixson CS, et al. **Am Heart J** 1990 Jun;119(6):1432–5

Perioperative surface and transesophageal color–flow Doppler evaluation of post–traumatic intracardiac shunt. Lindenbaum GA, et al. **Am Heart J** 1990 Jan;119(1):193–6

Transesophageal color flow Doppler evaluation of cor triatriatum in an adult. Ludomirsky A, et al. **Am Heart J** 1990 Aug;120(2):451–5

Role of two–dimensional echocardiography, pulsed, continuous wave color flow Doppler techniques in the assessment of ventricular septal rupture after myocardial infarction. Bansal RC, et al. **Am J Cardiol** 1990 Apr 1; 65(13):852–60

Detection of diastolic atrioventricular valvular regurgitation by "M–mode" color Doppler echocardiography. Covalesky VA, et al. **Am J Cardiol** 1989 Oct 1; 64(12):809–10

A quantitative comparison of transesophageal and epicardial color Doppler echocardiography in the intraoperative assessment of mitral regurgitation. Kleinman JP, et al. **Am J Cardiol** 1989 Nov 15;64(18):1168–72

Noninvasive measurement of cardiac output during surgery using a new continuous–wave Doppler esophageal probe. Kumar A, et al. **Am J Cardiol** 1989 Oct 1;64(12):793–8

Effect of sampling site on Doppler–derived right ventricular systolic time intervals. Shaffer EM, et al. **Am J Cardiol** 1990 Apr 1;65(13):950–2

Detection and assessment of severity of tricuspid regurgitation using first–pass radionuclide angiography and comparison with pulsed Doppler echocardiography. Williams KA, et al. **Am J Cardiol** 1990 Aug 1;66(3):333–9

Comparison of color flow and 3D image by computer graphics for the evaluation of carotid disease. Houi K, et al. **Angiology** 1990 Apr;41(4):305–12

Clinical impact of echo–Doppler in the management of heart disease. Quek SS, et al. **Ann Acad Med Singapore** 1990 Jan; 19(1):90–8 (60 ref.)

Intraoperative transesophageal echocardiography for hypertrophic cardiomyopathy [letter] Eng J, et al. **Ann Thorac Surg** 1990 Sep;50(3):513–4

Transesophageal color Doppler echocardiography during mechanical assist circulation. Kyo S, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):722–5

Pulsed Doppler measurement of left ventricular output as early predictor of symptomatic patent ductus arteriosus in very preterm infants. Walther FJ, et al. **Biol Neonate** 1989; 56(3):121–8

Anomalous origin of the left coronary artery from the pulmonary trunk: elucidation with colour Doppler flow mapping. Houston AB, et al. **Br Heart J** 1990 Jan;

63(1):50–4
The use of combined transoesophageal echocardiography and fluoroscopy in the biopsy of a right atrial mass. Scott PJ, et al. **Br J Radiol** 1990 Mar;63(747):222–4
Colour flow mapping in cardiology: indications and limitations. Sutherland GR, et al. **Br Med Bull** 1989 Oct; 45(4):1076–91 (48 ref.)
Echocardiography of valve disease. Wilde P. **Br Med Bull** 1989 Oct;45(4):1011–35 (16 ref.)
Inaccuracy of Doppler estimates of pulmonary artery pressure using pulmonary flow acceleration time. Nanna M, et al. **Can J Cardiol** 1990 Jan–Feb;6(1):19–23
Doppler echocardiography in dilated and restrictive cardiomyopathies. Acquatella H, et al. **Cardiol Clin** 1990 May;8(2):349–67 (109 ref.)
Evaluation of left ventricular diastolic function. Bessen M, et al. **Cardiol Clin** 1990 May;8(2):315–32 (86 ref.)
Doppler echocardiography in pericardial disease. Borganelli M, et al. **Cardiol Clin** 1990 May;8(2):333–48 (43 ref.)
Echo–Doppler and color–flow imaging in congenital heart disease. Child JS. **Cardiol Clin** 1990 May;8(2):289–313 (130 ref.)
Role of transesophageal echocardiography in diagnosis and management of cardiovascular disease. Kuecherer HF, et al. **Cardiol Clin** 1990 May;8(2):377–88 (47 ref.)
Doppler echocardiographic evaluation of mitral regurgitation. Perry GJ, et al. **Cardiol Clin** 1990 May; 8(2):265–75 (36 ref.)
Echocardiographic and Doppler studies in hypertrophic cardiomyopathy. Sasson Z, et al. **Cardiol Clin** 1990 May; 8(2):217–32 (46 ref.)
Pulmonary artery pressure estimation by Doppler and two–dimensional echocardiography. Schiller NB. **Cardiol Clin** 1990 May;8(2):277–87 (18 ref.)
Doppler echocardiographic evaluation of aortic regurgitation. Teague SM. **Cardiol Clin** 1990 May; 8(2):249–63 (69 ref.)
Determination of aortic valve area by Doppler echocardiography using the continuity equation: a critical evaluation. Baumgartner H, et al. **Cardiology** 1990; 77(2):101–11
Doppler–echo evaluation of left ventricular diastolic filling in patient with mixed connective tissue disease. Leung WH, et al. **Cardiology** 1990;77(2):93–100
Usefulness of left and right oblique subcostal view in the echo–Doppler investigation of pulmonary arterial blood flow in patients with chronic obstructive pulmonary disease. The subxiphoid view in the echo–Doppler evaluation of pulmonary blood flow. Ferrazza A, et al. **Chest** 1990 Aug;98(2):286–9
Independent pulsed Doppler mapping techniques. Limitations in the prediction of the angiographic severity of mitral regurgitation. Liu MW, et al. **Chest** 1989 Dec;96(6):1263–7
Visualization of coronary blood flow by color Doppler imaging with a transesophageal approach. Yamagishi M, et al. **Chest** 1989 Nov;96(5):972–5
A new method for estimating left ventricular dP/dt by continuous wave Doppler–echocardiography. Validation studies at cardiac catheterization. Bargiggia GS, et al. **Circulation** 1989 Nov;80(5):1287–92
Relation of pulmonary vein to mitral flow velocities by transesophageal Doppler echocardiography. Effect of different loading conditions. Nishimura RA, et al. **Circulation** 1990 May;81(5):1488–97
Detection of left main coronary artery stenosis by transesophageal color Doppler and two–dimensional echocardiography. Yoshida K, et al. **Circulation** 1990 Apr; 81(4):1271–6
Role of transmitral blood flow velocity by Doppler echocardiography in the evaluation of coronary artery disease. Brunckhorst C, et al. **Clin Cardiol** 1990 Feb; 13(2):108–14
Fetal echocardiography in the diagnosis and management of fetal heart disease. Copel JA, et al. **Clin Diagn Ultrasound** 1989;25:67–83 (47 ref.)
Combined Doppler and M–mode analysis of diastolic filling behaviour in arterial hypertension with and without left ventricular hypertrophy. Wallrabe D, et al. **Cor Vasa** 1990; 32(1):26–35
Assessment of aortic regurgitation by noninvasive techniques. Kandath D, et al. **Curr Probl Cardiol** 1990 Feb;15(2):45–58 (22 ref.)
Colour Doppler echocardiographic assessment of regurgitant flow in mitral valve prolapse. Wilcox I, et al. **Eur Heart J** 1989 Oct;10(10):872–9
Visualization of the fetal circle of Willis and intra–cerebral arteries by color–coded Doppler. Arbeille PH, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep;32(3):195–8
Criss–cross heart evaluated by colour Doppler echocardiography and magnetic resonance imaging. Igarashi H, et al. **Eur J Pediatr** 1990 May;149(8):523–5
Cross–sectional echocardiographic features of congenital submitral left ventricular aneurysms. Nair M, et al. **Int J Cardiol** 1989 Dec;25(3):346–8
Quantification of aortic regurgitation using continuous and pulsed wave Doppler echocardiography. Pye M, et al. **Int J Cardiol** 1990 Apr;27(1):101–6
Assessment of transesophageal Doppler echography in dissecting aortic aneurysm [see comments] Hashimoto S, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1253–62 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1263–5.
The fractional shortening–velocity ratio: validation of a new echocardiographic Doppler method for identifying patients with significant aortic stenosis [see comments] Mann DL, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1578–84 Comment in: J Am Coll Cardiol 1990 Jun;15(7):1585–6.
Transthoracic two–dimensional high frequency (7.5 MHz) ultrasonic visualization of the distal left anterior descending coronary artery. Ross JJ Jr, et al. **J Am Coll Cardiol** 1990 Feb;15(2):373–7
The utility of transesophageal echocardiography and Doppler color flow imaging in patients undergoing cardiac valve surgery. Sheikh KH, et al. **J Am Coll Cardiol** 1990 Feb;15(2):363–72
Aortic valve morphology: an important in vitro determinant of proximal regurgitant jet width by Doppler color flow mapping. Taylor AL, et al. **J Am Coll Cardiol** 1990 Aug; 16(2):405–12
Albunex: a safe and effective commercially produced agent for myocardial contrast echocardiography. Keller MW, et al. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):48–52
Imaging of the coronary arteries by transesophageal echocardiography. Pearce FB, et al. **J Am Soc Echocardiogr** 1989 Jul–Aug;2(4):276–83
Improved evaluation of left ventricular outflow tract obstruction by transesophageal echocardiography. Schwinger ME, et al. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):191–4
Two–dimensional color Doppler estimation of the severity of atrioventricular valve regurgitation: important effects of instrument gain setting, pulse repetition frequency, and carrier frequency. Stevenson JG. **J Am Soc Echocardiogr** 1989 Jan–Feb;2(1):1–10
Comparison of several noninvasive methods for estimation of pulmonary artery pressure. Stevenson JG. **J Am Soc Echocardiogr** 1989 May–Jun;2(3):157–71
Paradoxical (right–to–left) shunting across an iatrogenic atrial septal defect during Valsalva's maneuver: a transesophageal Doppler echocardiographic study. Tunick PA, et al. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):455–7
Colour Doppler flow mapping: providing an insight into cardiac hydrodynamics. Simpson IA. **J Med Eng Technol** 1990 Jul–Aug;14(4):133–42
Recording of blood flow velocity waveforms in the uteroplacental and umbilical circulation: reproducibility study and comparison of pulsed and continuous wave Doppler ultrasonography. Gudmundsson S, et al. **JCU** 1990 Feb;18(2):97–101
Assessment of Doppler color flow mapping in quantification of aortic regurgitation—correlations and influencing factors. Matsumura M, et al. **Jpn Circ J** 1989 Jul; 53(7):735–46
Value of transesophageal color Doppler echocardiography in the evaluation of coronary artery anatomy and blood flow. Yoshida K, et al. **Jpn Circ J** 1990 Mar;54(3):298–303
Significance of the Doppler–derived gradient across a residual aortic coarctation. Aldousany AW, et al. **Pediatr Cardiol** 1990 Jan;11(1):8–14
[Complementarity of transthoracic and transesophageal Doppler echocardiography in the diagnosis of thrombosis of a mitral prosthesis. Apropos of 3 cases] Roudaut R, et al. **Arch Mal Coeur** 1990 Jun;83(7):977–81 (Eng. Abstr.) **(Fre)**
[2–dimensional color coded Doppler echocardiography of the fetus: physiologic and pathologic findings] Gembruch U, et al. **Arch Gynecol Obstet** 1989;245(1–4):56–8 (Eng. Abstr.) **(Ger)**
[Echocardiography. Function analysis from morphology and dynamics] Autenrieth G. **Internist (Berl)** 1990 May; 31(5):305–12 (27 ref.) **(Ger)**
[Echocardiographic evaluation of heart valve diseases (published erratum appears in Internist (Berlin) 1989 Nov;30(11):774)] Autenrieth G, et al. **Internist (Berlin)** 1989 Aug;30(8):464–74 (32 ref.) **(Ger)**
[Non–invasive Doppler echocardiography assessment of right ventricular pressure in patients with ventricular septal defect] Wippermann CF, et al. **Monatsschr Kinderheilkd** 1990 Apr;138(4):206–10 (Eng. Abstr.) **(Ger)**
[Transthoracic color Doppler echocardiography in the diagnosis of insufficiency of heart valve prostheses. A comparison with conventional Doppler sonography] Weiss P, et al. **Ultraschall Med** 1989 Oct;10(5):266–9 (Eng. Abstr.) **(Ger)**
[Quantifying aortic valve insufficiency using color Doppler echocardiography] Kirchner K, et al. **Z Gesamte Inn Med** 1990 May 15;45(10):281–3 (Eng. Abstr.) **(Ger)**
[Combined echo– and Doppler echocardiography determination of diastolic function parameters of the left ventricle] Wallrabe D. **Z Gesamte Inn Med** 1990 May 15; 45(10):277–80 (Eng. Abstr.) **(Ger)**
[Assessment of the severity of mitral valve insufficiency using color Doppler echocardiography] Becher H, et al. **Z Kardiol** 1989 Dec;78(12):764–70 (Eng. Abstr.) **(Ger)**
[Possibilities and limits of quantitative analyses using Doppler echocardiography] Curtius JM. **Z Kardiol** 1989;78 Suppl 7:143–52 (83 ref.) (Eng. Abstr.) **(Ger)**
[Doppler echocardiography measurement of the regurgitation fraction in patients with aortic valve insufficiency] Dittmann H, et al. **Z Kardiol** 1989 Dec; 78(12):771–6 (Eng. Abstr.) **(Ger)**
[Transesophageal and Doppler ultrasound studies before and following percutaneous balloon valvuloplasty of the aortic valve] Geibel A, et al. **Z Kardiol** 1990 Mar;79(3):176–82 (Eng. Abstr.) **(Ger)**
[Left ventricular diastolic function in heart failure—a Doppler echocardiography study] Horstmann E, et al. **Z Kardiol** 1989 Nov;78(11):738–4 (Eng. Abstr.) **(Ger)**
[Doppler echocardiography description of diastolic function disorder in terminal renal failure—new characterization of uremic cardiomyopathy] Josephs W, et al. **Z Kardiol** 1990 Jul;79(7):482–8 (Eng. Abstr.) **(Ger)**
[Possibilities and limits of echocardiography] Köhler E. **Z Kardiol** 1990 Jul;79(7):461–7 (41 ref.) (Eng. Abstr.) **(Ger)**
[Functional evaluation of the left ventricle using 2–dimensional and color–coded Doppler echocardiography] Mohr–Kahaly S, et al. **Z Kardiol** 1989 Nov;78(11):719–25 (Eng. Abstr.) **(Ger)**
[A new Doppler echocardiography parameter of diastolic ventricular function] Opgenorth–Welslau R, et al. **Z Kardiol** 1990 Jul;79(7):475–81 (Eng. Abstr.) **(Ger)**
[Hemodynamic and clinical results following percutaneous aortic valve valvuloplasty in adults] Scherer HE, et al. **Z Kardiol** 1990 Jul;79(7):489–98 (Eng. Abstr.) **(Ger)**
[The accuracy of Doppler echocardiography determination of shunt volume in children with isolated atrial septal defect and left–right shunt] Stern H, et al. **Z Kardiol** 1989 Oct; 78(10):674–9 (Eng. Abstr.) **(Ger)**
[Estimated relation of Doppler echocardiography parameters of diastolic ventricular function and pulmonary capillary pressure in acute ischemia] Werner GS, et al. **Z Kardiol** 1990 Jul;79(7):468–74 (Eng. Abstr.) **(Ger)**
[Automation of ambulatory Doppler color echocardiography using a relational data base in a personal computer] Ballerini P, et al. **Minerva Cardioangiol** 1990 Jan–Feb;38(1–2):17–22 (Eng. Abstr.) **(Ita)**
[Mitral valve insufficiency and Doppler technics. The limits in the quantitative definition of the severity of the regurgitation] Montemurro D, et al. **Minerva Cardioangiol** 1989 Nov;37(11):465–8 (20 ref.) **(Ita)**
[A new method quantifying tricuspid regurgitant volume by two–dimensional color and continuous wave Doppler echocardiography] Sugimoto T, et al. **J Cardiol** 1988 Dec; 18(4):1069–81 (Eng. Abstr.) **(Jpn)**
[Silent severe tricuspid regurgitation: a study by Doppler echocardiography] Yoshida K, et al. **J Cardiol** 1989 Mar; 19(1):187–94 (Eng. Abstr.) **(Jpn)**
[Doppler techniques in the detection of valvular regurgitation: their value and limitations] Yoshida K, et al. **J Cardiol** 1989 Mar;19(1):195–206 (Eng. Abstr.) **(Jpn)**
[Clinical implication of transesophageal echocardiography] Ogawa S, et al. **J Cardiol Suppl** 1989;22:100–3 **(Jpn)**
[Diagnosis of stenotic lesion of left coronary artery by transesophageal Doppler echocardiography] Yamada S, et al. **J Cardiol Suppl** 1989;22:129–31 **(Jpn)**
[Doppler echocardiographic evaluation of regurgitation of valves] Yamasawa M, et al. **Kokyu To Junkan** 1990 Feb; 38(2):133–9 **(Jpn)**
[Clinical applications of transesophageal echocardiography] Matsuzaki M, et al. **Rinsho Byori** 1990 Jun;38(6):626–36 (Eng. Abstr.) **(Jpn)**

STANDARDS

Accuracy of mitral Doppler echocardiographic cardiac output determinations in adults. Miller WE, et al. **Am Heart J** 1990 Apr;119(4):905–10
Errors in measurements of stroke volume for invasive and echo–Doppler evaluations of valvular regurgitant fractions. Clinical evaluation and computer simulation. Iliceto S, et al. **Eur Heart J** 1990 Apr;11(4):355–60
In vitro analysis of jets by Doppler colour flow imaging: the importance of time to maximum jet area. Ohman EM, et al. **Eur Heart J** 1990 Apr;11(4):361–7

STATISTICS & NUMERICAL DATA

Reproducibility of echocardiographic estimates of the area of stenosed aortic valves using the continuity equation. Myreng Y, et al. **Int J Cardiol** 1990 Mar;26(3):349–54; discussion 355–9

VETERINARY

Doppler echocardiographic evaluation of congenital cardiac disease. An introduction. Moise NS. **J Vet Intern Med** 1989 Oct–Dec;3(4):195–207 (53 ref.)
Double–inlet univentricular heart of left ventricular type in a calf: detection by two–dimensional and Doppler echocardiography. Hagio M, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):1049–53

ECHOCARDIOGRAPHY, DOPPLER COLOR see **ECHOCARDIOGRAPHY, DOPPLER**

ECHOCARDIOGRAPHY, M-MODE see **ECHOCARDIOGRAPHY**

ECHOCARDIOGRAPHY, PULSED DOPPLER see **ECHOCARDIOGRAPHY, DOPPLER**

ECHOCARDIOGRAPHY, TWO-DIMENSIONAL see **ECHOCARDIOGRAPHY**

ECHOCARDIOGRAPHY, TWO-DIMENSIONAL DOPPLER see **ECHOCARDIOGRAPHY, DOPPLER**

ECHOENCEPHALOGRAPHY

Multiinfarct and Alzheimer-type dementia investigated by transcranial Doppler sonography. Foerstl H, et al. **Biol Psychiatry** 1989 Oct;26(6):590–4

Cerebral blood flow velocity following tourniquet release in humans. Lam AM, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S29

Cranial sonography and neurological examination of extremely preterm infants. Bozynski MA, et al. **Dev Med Child Neurol** 1990 Jul;32(7):575–81

Ultrasonic evaluation of complicated meningitis. Kapoor R, et al. **Indian Pediatr** 1989 Aug;26(8):804–8

Comparative neuroimaging with pathologic correlates in Alexander's disease. Hess DC, et al. **J Child Neurol** 1990 Jul;5(3):248–52

Neurosonographic features of Aicardi's syndrome. Roland EH, et al. **J Child Neurol** 1989 Oct;4(4):307–10

Echoencephalographic findings in neonates associated with maternal cocaine and methamphetamine use: incidence and clinical correlates. Dixon SD, et al. **J Pediatr** 1989 Nov; 115(5 Pt 1):770–8

Right carotid artery ligation in neonates: classification of collateral flow with color Doppler imaging. Mitchell DG, et al. **Radiology** 1990 Apr;175(1):117–23

[Neurosonography reveals various etiologies of migraine] Pendefunda L, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep;93(3):585–90 (Eng. Abstr.) **(Fre)**

[The prognosis of convulsions in the newborn—the place of EEG in comparison with echoencephalography] Staudt F. **EEG EMG** 1990 Jun;21(2):118–25 (Eng. Abstr.) **(Ger)**

[Delayed fontanelle closure in infants with cyanotic cardiomyopathies] Rusche T, et al. **Klin Padiatr** 1990 Jan–Feb;202(1):18–9 (Eng. Abstr.) **(Ger)**

[Case report of ultrasound diagnosis of lissencephaly syndrome] Lemmer A, et al. **Padiatr Grenzgeb** 1990; 29(3):255–9 (Eng. Abstr.) **(Ger)**

[Ultrasonic studies of craniocerebral injuries in infants] Schwalbe J, et al. **Z Kinderchir** 1989 Dec;44(6):330–5 (Eng. Abstr.) **(Ger)**

[Results of ultrasound brain studies in clinically normal newborn infants] Nagel H, et al. **Zentralbl Gynakol** 1989; 111(23):1580–3 (Eng. Abstr.) **(Ger)**

[Value of echoencephalography in the diagnosis of periventricular leukomalacia in children and the prognosis of their development] Ozerova OE, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):59–62 (Eng. Abstr.) **(Rus)**

[Diagnostic value of echoencephalography in various types of intracranial pathology in newborn infants] Ozerova OE. **Akush Ginekol (Mosk)** 1990 Jan;(1):31–6 **(Rus)**

[Ultrasonic diagnosis of congenital defects of brain development] Baérts V. **Pediatriia** 1990;(4):78–84 **(Rus)**

[Clinical and echoencephalographic data in assessing the outcome of meningococcal meningoencephalitis] Gebesh VV, et al. **Vrach Delo** 1990 Jan;(1):109–12 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

[Intraoperative ultrasound imaging in neurosurgery] Gaab MR. **Ultraschall Med** 1990 Apr;11(2):62–71 (20 ref.) (Eng. Abstr.) **(Ger)**

[CT/MRI correlated stereometry with ultrasound in brain surgery] Zweifel HJ, et al. **Ultraschall Med** 1990 Apr; 11(2):72–5 (Eng. Abstr.) **(Ger)**

METHODS

Cranial duplex sonography: does isoflurane affect the cerebrovascular response to carbon dioxide in anaesthetized children? Leon JE, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S33

Cranial duplex sonography: does halothane affect the cerebrovascular response to carbon dioxide in anaesthetized children? Leon JE, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S24

Investigation of cerebrovascular reactivity using transcranial Doppler sonography. Evaluation and comparison of different methods. Provinciali L, et al. **Funct Neurol** 1990 Jan–Mar;5(1):33–41

Dissection of the cervical internal carotid artery. The role of Doppler/Duplex studies and conservative management. Eljamel MS, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):379–83

Assessment of hemodynamic disturbances in aphasic patients by transcranial Doppler ultrasonography. Pendefunda L. **Neurol Psychiatr (Bucur)** 1989 Jul–Sep;27(3):197–200

Two transcranial Doppler studies on blood flow velocity in both middle cerebral arteries during rest and the performance of cognitive tasks. Droste DW, et al. **Neuropsychologia** 1989;27(10):1221–30

CT-scan or two-dimensional echoencephalography in neonatal intracranial pathology? Santa M, et al. **Zentralbl Neurochir** 1989;50(2):78–83

[Cerebral blood flow velocity. A prognostic factor following severe craniocerebral trauma?] Sanker P, et al. **Aktuel Traumatol** 1990 Jun;20(3):152–6 (Eng. Abstr.) **(Ger)**

[Transcranial Doppler curve analysis. On the pathophysiology of unilateral carotid stenoses] Fürst H, et al. **Chirurg** 1990 Mar;61(3):178–82 (Eng. Abstr.) **(Ger)**

[Transcranial Doppler sonography in children. 2. Clinical uses] Bode H. **Ultraschall Med** 1989 Oct;10(5):237–44 (Eng. Abstr.) **(Ger)**

[The effect of physical stress on the blood flow velocity in the middle cerebral artery. A transcranial Doppler sonographic study] Briebach T, et al. **Ultraschall Med** 1989 Oct;10(5):250–3 (Eng. Abstr.) **(Ger)**

[Ultrasound tomography following surgery of tumors of the cerebellopontile angle] Hagen A, et al. **Zentralbl Neurochir** 1989;50(1):27–9 (Eng. Abstr.) **(Ger)**

[Usefulness of trans-fontanel ultrasonography in the diagnosis of various pathological changes in the brain of infants. II. Evaluation of the width of cerebral ventricles and morphology of extra-cerebral fluid spaces] Góraj B. **Pediatr Pol** 1989 Oct–Dec;64(10–12):600–4 (Eng. Abstr.) **(Pol)**

[Transcranial Doppler ultrasonography—a new technic of examination of cerebral blood flow] Lass P, et al. **Wiad Lek** 1990 Apr 15;43(8):330–5 (Eng. Abstr.) **(Pol)**

[The reactivity of the major vessels of the human brain based on the data of transcranial dopplerography] Khil'ko VA, et al. **Fiziol Zh SSSR** 1989 Nov;75(11):1486–500 (Eng. Abstr.) **(Rus)**

[Ultrasonic scanning of the brain in newborn infants (review of the literature)] Neizhko LIu. **Zh Nevropatol Psikhiatr** 1989;89(8):132–6 (49 ref.) **(Rus)**

ECHOGRAPHY see **ULTRASONIC DIAGNOSIS**

ECHOLALIA

PSYCHOLOGY

The psychopathology of echophenomena. Ford RA. **Psychol Med** 1989 Aug;19(3):627–35 (70 ref.)

THERAPY

Increasing spontaneous language in three autistic children. Matson JL, et al. **J Appl Behav Anal** 1990 Summer; 23(2):227–33

ECHOLOCATION see under **ORIENTATION**

ECHOTHIOPHATE IODIDE

PHARMACOLOGY

Accumulation of extracellular calcium at the endplate of mouse diaphragm after ecothiopate in vitro. Burd PF, et al. **Br J Pharmacol** 1989 Sep;98(1):243–51

Echothiophate and cogeners decrease the voltage dependence of end-plate current decay in frog skeletal muscle. Henderson EG, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):810–6

THERAPEUTIC USE

The efficacy of combinations of ocular hypotensive drugs. A tonographic approach. Kronfeld PC. **Arch Ophthalmol** 1967 Aug;78(2):140–6

TOXICITY

Increased canine pancreatic acinar cell damage after organophosphate and acetylcholine or cholecystokinin. Liu S, et al. **Pancreas** 1990 Mar;5(2):177–82

ECHOTOMOGRAPHY, COMPUTER see **ULTRASONIC DIAGNOSIS**

ECHOVIRUS 6 see under **ECHOVIRUSES**

ECHOVIRUS 9 see under **ECHOVIRUSES**

ECHOVIRUS INFECTIONS

An outbreak of acute flaccid paralysis in Jamaica associated with echovirus type 22. Figueroa JP, et al. **J Med Virol** 1989 Dec;29(4):315–9

Fatal pneumonitis caused by echovirus 17. Craver RD, et al. **Pediatr Infect Dis J** 1990 Jun;9(6):453–4

[Echovirus type 18 infection: clinical features of 15 cases in Kitakyushu in 1988] Kawano M, et al. **Kansenshogaku Zasshi** 1990 Jan;64(1):132–5 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

[Late sequelae of epidemic viral meningitis] Pierzchała K, et al. **Wiad Lek** 1989 Feb 1;42(3):155–8 (Eng. Abstr.) **(Pol)**

CONGENITAL

Congenital echo virus infection—morphological and virological study of fetal and placental tissue. Garcia AG, et al. **J Pathol** 1990 Feb;160(2):123–7

DIAGNOSIS

Rubella-like illness in a pregnant woman. Schiff GM. **Hosp Pract [Off]** 1990 Feb 15;25(2):61–5, 68–9, 72–6

Persistent enterovirus infection in culture-negative meningoencephalitis: demonstration by enzymatic RNA amplification. Rotbart HA, et al. **J Infect Dis** 1990 Apr; 161(4):787–91

[Diagnosis of echovirus infection] Nakamura M. **Nippon Rinsho** 1990 Feb;48 Suppl:284–6 **(Jpn)**

EPIDEMIOLOGY

Fatal echovirus 7 infection during an outbreak in a special care baby unit. Wreghitt TG, et al. **J Infect** 1989 Nov; 19(3):229–36

[Epidemic of aseptic meningitis with echovirus type 7 in Gifu prefecture in 1986] Miwa C, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):584–92 (Eng. Abstr.) **(Jpn)**

[Non-poliomyelitis viruses in Poland 1982–1987] Jarząbek Z. **Przegl Epidemiol** 1989;43(3):250–8 (Eng. Abstr.) **(Pol)**

[Outbreak of enteroviral uveitis in children in Omsk in 1987–1988] Lashkevich VA, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):33–8 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Disseminated echovirus infection complicating bone marrow transplantation. Biggs DD, et al. **Am J Med** 1990 Apr; 88(4):421–5 (39 ref.)

Severe encephalitis associated with disseminated echovirus 22 infection. Koskiniemi M, et al. **Scand J Infect Dis** 1989; 21(4):463–6

MORTALITY

Fatal outcome of echovirus 7 infection. Ho-Yen DO, et al. **Scand J Infect Dis** 1989;21(4):459–61

ECHOVIRUSES

GENETICS

A structural model for the genome of echovirus 22. Seal LA, et al. **Arch Virol** 1990;111(1–2):45–61

Persistent enterovirus infection in culture-negative meningoencephalitis: demonstration by enzymatic RNA amplification. Rotbart HA, et al. **J Infect Dis** 1990 Apr; 161(4):787–91

Echovirus 22 is an atypical enterovirus. Coller BA, et al. **J Virol** 1990 Jun;64(6):2692–701

Steady-state infection by echovirus 6 associated with nonlytic viral RNA and an unprocessed capsid polypeptide. Righthand VF, et al. **J Virol** 1989 Dec;63(12):5268–75

GROWTH & DEVELOPMENT

[Role of viral reactivation in recurrent adenoiditis and tonsillitis in children] Fernández Pérez A, et al. **Acta Otorrinolaringol Esp** 1989 Jul–Aug;40(4):277–8 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

[Immunomodulation mechanisms in the anti-tumor effect of the ECHO-7 enterovirus] Ferdat AK, et al. **Eksp Onkol** 1989;11(5):43–8 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Pig erythrocyte ghost cells used for concentration of enteric viruses from experimentally contaminated clinical specimens. Armon R, et al. **J Med Virol** 1989 Dec; 29(4):256–60

PHYSIOLOGY

[Manifestation of the phenomenon of variation in cytopathologic changes in primary cultures and in continuing cell lines] Serić K, et al. **Med Arh** 1987; 41(6):313–8 (Eng. Abstr.) **(Ser)**

ECK FISTULA see **PORTACAVAL SHUNT, SURGICAL**

ECLAMPSIA

[Outcome of the mother and baby delivered by cesarean section in pregnancy induced hypertension. Analysis of 487 cases] Bao SH, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1990 Jan;25(1):9–11, 61 (Eng. Abstr.) **(Chi)**

[Circulatory disturbance of deep cerebral veins in eclampsia] Nakakita K, et al. **No To Shinkei** 1990 Mar;42(3):239–43 (Eng. Abstr.) **(Jpn)**

[Clinical aspects and prognosis in comatose states in postpartum eclampsia] Leskova NN, et al. **Sov Med** 1989; (12):117–9 **(Rus)**

COMPLICATIONS

Hepatic infarction associated with eclampsia. Krueger KJ, et al. **Am J Gastroenterol** 1990 May;85(5):588–92

Eclampsia. VI. Maternal-perinatal outcome in 254 consecutive cases. Sibai BM. **Am J Obstet Gynecol** 1990 Sep;163(3):1049–54; discussion 1054–5

A continuing controversy: magnesium sulfate in the treatment of eclamptic seizures. Kaplan PW, et al. **Arch Neurol** 1990 Sep;47(9):1031–2 (17 ref.)

Vitreous haemorrhage as a complication of HELLP syndrome. Leff SR, et al. **Br J Ophthalmol** 1990 Aug; 74(8):498

Pseudotumor cerebri following eclampsia. Koppel BS, et al. **Eur Neurol** 1990;30(1):6–8

Magnetic resonance evaluation of severe neurological disorders in eclampsia. Vandenplas O, et al. **Neuroradiology** 1990;32(1):47–9

[Reversible cerebral lesions in eclampsia. Clinical and x-ray computed tomographic study] Vandermarcq P, et al. **J Radiol** 1989 Aug–Sep;70(8–9):503–6 (25 ref.) (Eng. Abstr.) (Fre)

[The pathogenesis of generalized suppurative-septic complications in patients with eclampsia and massive blood loss of obstetrical origin] Vrublevskii OP, et al. **Anesteziol Reanimatol** 1990 Jan–Feb;(1):51–4 (Eng. Abstr.) (Rus)

[Late postpartum eclampsia. A propos of a case] Pernía Morán JV, et al. **Rev Esp Anestesiol Reanim** 1990 Mar–Apr; 37(2):98–100 (Eng. Abstr.) (Spa)

DIAGNOSIS

Exclude eclampsia early. Smoleniec JS, et al. **BMJ** 1990 May 12;300(6734):1242

Amphetamine ingestion presenting as eclampsia. Elliott RH, et al. **Can J Anaesth** 1990 Jan;37(1):130–3

Severe maternal morbidity and fetal mortality caused by a diagnostic Swan-Ganz procedure: a case report. Crane-Elders AB, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Oct;37(1):95–8

[HELLP syndrome] Casper F, et al. **Gynakologe** 1990 Feb; 23(1):29–32 (35 ref.) (Ger)

DRUG THERAPY

Single high dose of intravenous phenytoin sodium for the treatment of eclampsia. Coyaji KJ, et al. **Acta Obstet Gynecol Scand** 1990;69(2):115–8

Magnesium sulfate is the ideal anticonvulsant in preeclampsia-eclampsia. Sibai BM. **Am J Obstet Gynecol** 1990 May;162(5):1141–5 (17 ref.)

Magnesium sulfate and preeclampsia or eclampsia [letter] Lindheimer MD. **Arch Neurol** 1989 Nov;46(11):1164–5

Magnesium sulphate versus diazepam in the management of eclampsia: a randomized controlled trial. Crowther C. **Br J Obstet Gynaecol** 1990 Feb;97(2):110–7

Phenytoin sodium and magnesium sulphate in the management of eclampsia. Dommisse J. **Br J Obstet Gynaecol** 1990 Feb;97(2):104–9

Treatment of eclampsia. Moodley J. **Br J Obstet Gynaecol** 1990 Feb;97(2):99–101 (13 ref.)

Anti-convulsant therapy in eclampsia. Maheshwari JR, et al. **J Postgrad Med** 1989 Apr;35(2):66–9

[New aspects of anticonvulsive therapy in severe pre-eclampsia and eclampsia] Oney T, et al. **Geburtshilfe Frauenheilkd** 1989 Oct;49(10):906–14 (75 ref.) (Eng. Abstr.) (Ger)

[MgSO4 therapy in severe pre-eclampsia/eclampsia] Kyank H. **Zentralbl Gynakol** 1990;112(1):5–10 (31 ref.) (Eng. Abstr.) (Ger)

EPIDEMIOLOGY

Epidemiology of preeclampsia and eclampsia in the United States, 1979–1986. Saftlas AF, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):460–5

The pattern of eclampsia at the University of Ilorin Teaching Hospital (U.I.T.H.) Ilorin, Nigeria. Adetoro OO. **Int J Gynaecol Obstet** 1990 Mar;31(3):221–6

Postpartum eclampsia: a recurring perinatal dilemma. Miles JF Jr, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):328–31

GENETICS

Pre-eclampsia—a mitochondrial disease? Torbergsen T, et al. **Acta Obstet Gynecol Scand** 1989;68(2):145–8

Absence of close linkage between maternal genes for susceptibility to pre-eclampsia/eclampsia and HLA DR beta. Wilton AN, et al. **Lancet** 1990 Sep 15;336(8716):653–7

MORTALITY

A sixteen year survey of maternal mortality associated with eclampsia in Ilorin, Nigeria. Adetoro OO. **Int J Gynaecol Obstet** 1989 Oct;30(2):117–21

Eclampsia in twin pregnancy. López-Llera M, et al. **J Reprod Med** 1989 Oct;34(10):802–6 (8 ref.)

[Maternal and fetal mortality in eclampsia. Comparative study of 80 cases] Saldaña García RH, et al. **Ginecol Obstet Mex** 1977 Nov;42(253):345–58 (Eng. Abstr.) (Spa)

PATHOLOGY

Placental pathology in pre-eclampsia eclampsia syndrome. Sodhi S, et al. **Indian J Pathol Microbiol** 1990 Jan; 33(1):11–6

Reversible MRI lesions in eclampsia with hydatidiform mole. Malow BA, et al. **Neurology** 1990 Sep;40(9):1471–2

PHYSIOPATHOLOGY

Postpartum eclampsia. D'Addesio JP. **Ann Emerg Med** 1989 Oct;18(10):1105–6

PREVENTION & CONTROL

[Identification and prevention of recurrence of the gestosis syndrome] Moneta E. **Minerva Ginecol** 1989 Jul;41(7):331–6 (17 ref.) (Eng. Abstr.) (Ita)

RADIOGRAPHY

Computed tomography of the brain in eclampsia. Milliez J, et al. **Obstet Gynecol** 1990 Jun;75(6):975–80

THERAPY

[Eclampsia] Masson C, et al. **Presse Med** 1990 Jun 23; 19(25):1188–90 (10 ref.) (Eng. Abstr.) (Fre)

ECLECTICISM

PSYCHOLOGY

Evaluation of teaching of eclectic psychotherapy in a multidisciplinary setting. Elizur A, et al. **Isr J Psychiatry Relat Sci** 1988;25(3–4):139–49

ECMO see **EXTRACORPOREAL MEMBRANE OXYGENATION**

ECO DNA TOPOISOMERASE II see **DNA GYRASE**

ECOLOGICAL BIAS see **BIAS (EPIDEMIOLOGY)**

ECOLOGICAL MONITORING see **ENVIRONMENTAL MONITORING**

ECOLOGY

And then there was snow in Alaska: a sharing of experience with Allan Wicker [comment] Bechtel RB. **Am J Community Psychol** 1989 Oct;17(5):571–4 Comment on: Am J Community Psychol 1989 Oct;17(5):531–47.

Medical responsibility and global environmental change. McCally M, et al. **Ann Intern Med** 1990 Sep 15; 113(6):467–73 (44 ref.)

Consequences of rural development on vectors and their control. Coosemans M, et al. **Ann Soc Belg Med Trop** 1990 Mar;70(1):5–23 (94 ref.)

Microcosm for assessing survival of genetically engineered microorganisms in aquatic environments. Awong J, et al. **Appl Environ Microbiol** 1990 Apr;56(4):977–83

Ecology and public health [editorial] Phoon WO. **Asia Pac J Public Health** 1989;3(3):183

Fenuafala health survey: the ecology of health and disease on a coral atoll village. Rapaport M. **Asia Pac J Public Health** 1989;3(2):129–38

The stochastic regression analysis as a tool in ecotoxicological QSAR studies. Devillers J, et al. **Biomed Environ Sci** 1989 Dec;2(4):385–93

Open systems living in a closed biosphere: a new paradox for the Gaia debate. Barlow C, et al. **Biosystems** 1990; 23(4):371–84

Stability-complexity relationships within models of natural systems. Pilette R, et al. **Biosystems** 1990;23(4):359–70

Relationships between cerebral indices for 'extra' cortical parts and ecological categories in anthropoids. Sawaguchi T. **Brain Behav Evol** 1989;34(5):281–93

Use of lichen biomass to monitor dissolved metals in natural waters. Beck JN, et al. **Bull Environ Contam Toxicol** 1990 Feb;44(2):302–8

Performance of a new ecotoxicological index to assess environmental impacts on freshwater communities. Camargo JA. **Bull Environ Contam Toxicol** 1990 Apr; 44(4):529–34

Ecology of house dust mites in Oxfordshire. Hart BJ, et al. **Clin Exp Allergy** 1990 Mar;20(2):203–9

Implications of aquatic animal health for human health. Dawe CJ. **Environ Health Perspect** 1990 Jun;86:245–55 (78 ref.)

Role of spermatozeugmata in the spawning ecology of the brooding oyster Ostrea edulis. Foighil DO. **Gamete Res** 1989 Oct;24(2):219–28

Brekekekex, ko-ax, ko-axl Morowitz HJ. **Hosp Pract [Off]** 1990 Sep 15;25(9):108–9

Climate of the urban biosphere. Landsberg HE. **Int J Biometeorol** 1972;16 Suppl:71–83

Physiology of Sporolactobacillus strains isolated from different habitats and the indication of in vitro antagonism against Bacillus species. Holzapfel WH, et al. **Int J Food Microbiol** 1988 Oct;7(2):161–8

Ecological determinants of mould growth in stored grain. Magan N, et al. **Int J Food Microbiol** 1988 Dec;7(3):245–56

Clinical ecology: environmental medicine or unsubstantiated theory? Kahn E, et al. **J Allergy Clin Immunol** 1990 Feb; 85(2):437–9

Mosquito control in wastewater: a controlled and quantitative comparison of pupfish (Cyprinodon nevadensis amargosae), mosquitofish (Gambusia affinis) and guppies (Poecilia reticulata) in Sago pondweed marshes. Castleberry DT, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):223–8

Salt marsh mosquito control in Portsmouth, Rhode Island. Christie GD. **J Am Mosq Control Assoc** 1990 Mar; 6(1):144–7

Effect of Bacillus thuringiensis israelensis (H-14) on the isopod Asellus forbesi and spring Aedes mosquitoes in Michigan. Knepper RG, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):596–8

Prey selection by mosquitofish (Gambusia affinis) in California rice fields: effect of vegetation and prey species. Linden AL, et al. **J Am Mosq Control Assoc** 1990 Mar; 6(1):115–20

Effects of cattle density on New Jersey light trap mosquito captures in the rice/cattle agroecosystem of southwestern Louisiana. McLaughlin RE, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):283–6

Sampling, seasonal abundance, and mermithid parasitism of larval Coquillettidia perturbans in south-central Michigan. Olds EJ, et al. **J Am Mosq Control Assoc** 1989 Dec; 5(4):586–92

Experimental test of the influence of aquatic macrophyte cover on the survival of Anopheles larvae. Orr BK, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):579–85

Habitat pH characteristics of tree hole Culicoides (Diptera: Ceratopogonidae). Pappas CD, et al. **J Am Mosq Control Assoc** 1990 Mar;6(1):99–100

A simulation model of water depth in mangrove basin forests. Ritchie SA. **J Am Mosq Control Assoc** 1990 Jun;6(2):213–22

Community based bioenvironmental control of malaria in Kheda District, Gujarat, India. Sharma VP, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):514–21

Natural habitat of Cryptococcus neoformans var. gattii. Ellis DH, et al. **J Clin Microbiol** 1990 Jul;28(7):1642–4

Clinicians and "clinical ecology". Commentary on a position paper. Roberts HJ. **J Fla Med Assoc** 1990 May;77(5):533–4

On the stabilizing effect of predators and competitors on ecological communities. Hofbauer J, et al. **J Math Biol** 1989;27(5):537–48

Conservation biology: learning from saving species [news] Diamond JM. **Nature** 1990 Jan 18;343(6255):211–2

Ecology: stability from variability [news] Kareiva PM. **Nature** 1990 Mar 8;344(6262):111–2

Ecology: case of the diffusion squirrels [news] Lawton J, et al. **Nature** 1990 Feb 15;343(6259):595–6

Microbial ecology. Variation among the masses [news; comment] Olsen GJ. **Nature** 1990 May 3;345(6270):20 Comment on: Nature 1990 May 3;345(6270):60–3. Comment on: Nature 1990 May 3;345(6270):63–5.

Evolution and extinction. **Philos Trans R Soc Lond [Biol]** 1989 Nov 6;325(1228):239–488

The present, past and future of human-caused extinctions. Diamond JM. **Philos Trans R Soc Lond [Biol]** 1989 Nov 6;325(1228):469–76; discussion 476–7

The rise and fall of Homo sapiens sapiens. Tudge C. **Philos Trans R Soc Lond [Biol]** 1989 Nov 6; 325(1228):479–88

Ecological causes for the evolution of sexual dimorphism: a review of the evidence. Shine R. **Q Rev Biol** 1989 Dec; 64(4):419–61 (378 ref.)

Ecological toxicology and human health effects of heptachlor. Fendick EA, et al. **Rev Environ Contam Toxicol** 1990;111:61–142 (450 ref.)

Some marine ecological phenomena: chemical basis and biomedical potential. Scheuer PJ. **Science** 1990 Apr 13; 248(4952):173–7 (51 ref.)

Managing ecological upheavals: a Third World perspective. Desai B. **Soc Sci Med** 1990;30(10):1065–72

Sex differentials in cardiovascular mortality: an ecological analysis. Park KA, et al. **Soc Sci Med** 1989;29(7):869–76

Cytophotometric differentiation of high elevation spruces: physiological and ecological implications. Berlyn GP, et al. **Stain Technol** 1990;65(1):1–14

[An ecological approach to infant mortality conditions in South-Sahara Africa] Rémy G. **Bull Soc Pathol Exot Filiales** 1990;83(1):15–20 (Fre)

[Ecology and economics—a new epoch] Naess K. **Tidsskr Nor Laegeforen** 1989 Dec 10;109(34–36):3618–20 (Nor)

[Ecologic aspects of American tegumentary leishmaniasis. 6. Anthropophillic Phlebotomus fauna of residual forests located in the Northeastern region of the State of São Paulo, Brazil] Gomes A de C, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jan–Feb;31(1):32–9 (Eng. Abstr.) (Por)

[Methodologic aspects of studying the effects of ecologic factors on the reproductive system of women] Serov VN, et al. **Aknush Ginekol (Mosk)** 1990 Mar;(3):6–9 (32 ref.) (Rus)

[Sanitary and hygienic aspects of ecology] Aleksandrov VN. **Gig Sanit** 1990 May;(5):94–6 (Rus)

[Human ecology as a part of both socioecology and medicine] Bachinskii GA. **Gig Sanit** 1990 Mar;(3):76–8 (Rus)

[A geometrical analysis of the shape of the response surface in ecologico-toxicologic experiments] Maksimov VN, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Jul–Aug;(4):631–6 (Eng. Abstr.) (Rus)

[Ecological changes and human heredity] Bochkov NP, et al. **Klin Med (Mosk)** 1990 May;68(5):25–32 (30 ref.) (Rus)

[Human ecology: current state and the prospects of its development] Agadzhanian NA. **Vestn Akad Med Nauk SSSR** 1989;(8):4–14 (Eng. Abstr.) (Rus)

[Human ecology and the problem of health] Agadzhanian NA, et al. **Vestn Akad Med Nauk SSSR** 1989;(9):68–73 (Eng. Abstr.) (Rus)

[Ecology of the peoples of the Central Asia. the anthropological aspect] Alekseeva TI. **Vestn Akad Med Nauk SSSR** 1989;(8):38–42 (Eng. Abstr.) (Rus)

[New philosophical thinking and methodologic problems in biology] Boltenkov EM. **Vestn Akad Med Nauk SSSR** 1990; (4):29–32 (Rus)

[Development of scientific research in the area of protection

of human health and environment] Pokrovskiĭ VI. **Vestn Akad Med Nauk SSSR** 1989;(9):4–5 **(Rus)**
[Recreation as one of the trends in human ecology] Preobrazhenskiĭ VS, et al. **Vestn Akad Med Nauk SSSR** 1989;(8):48–52 (Eng. Abstr.) **(Rus)**
[Health and ecological problems connected with development of the North] Sidorenko GI. **Vestn Akad Med Nauk SSSR** 1989;(9):6–11 (Eng. Abstr.) **(Rus)**
[Ecological problems and natural therapeutic resources] Adilov VB, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):1–4 **(Rus)**
[A comparative study of the biological value of proteins in products of hydrogen-oxidizing bacteria biomass processing] Radionov VN, et al. **Vopr Pitan** 1989 Nov–Dec;(6):32–5 (Eng. Abstr.) **(Rus)**
[The multidimensional character of the niches in Gause's law applicable to prokaryotes and the methods for the spatial separation of competing associates] Kalina GP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Oct;(10):10–7 (Eng. Abstr.) **(Rus)**
[Dangers of the destruction of the ozone layer] Battestini R. **Med Clin (Barc)** 1989 Dec 2;93(18):696–8 **(Spa)**

ECOLOGY, SEALED CABIN see **SEALED CABIN ECOLOGY**

ECONAZOLE see under **IMIDAZOLES**

ECONOMIC COMPETITION see under **ECONOMICS**

ECONOMIC VALUE OF LIFE see under **ECONOMICS**

ECONOMICS

see related
SOCIOECONOMIC FACTORS
For whom the bell tolls. Conner SL. **Ala Med** 1990 Apr; 59(10):4, 6
Estimating the mortality cost of AIDS: do estimates of earnings differ? Begley CE, et al. **Am J Public Health** 1990 Oct;80(10):1268–70
A pragmatist's nightmare [letter; comment] Mohanlal M. **Aust Fam Physician** 1990 Apr;19(4):596–7 Comment on: Aust Fam Physician 1989 Nov;18(11):1420–5.
The social costs of tobacco smoking. Markandya A, et al. **Br J Addict** 1989 Oct;84(10):1139–50
Living on the short side of the long run. **Health Aff (Millwood)** 1990 Spring;9(1):162–77
Public-sector health spending may aid competitiveness [letter] Navarro V. **Health Aff (Millwood)** 1990 Summer; 9(2):235–6
Health costs do reduce U.S. competitiveness [letter] Rasell ME. **Health Aff (Millwood)** 1990 Summer;9(2):234–5
Health care spending and American competitiveness. Reinhardt UE. **Health Aff (Millwood)** 1989 Winter; 8(4):5–21
Warfare or partnership: which way for health care? MacStravic RS. **Health Care Manage Rev** 1990 Winter; 15(1):37–45
Offering-level strategy formulation in health service organizations. Pointer DD. **Health Care Manage Rev** 1990 Summer;15(3):15–23
Survey identifies trends in equipment acquisitions. Anderson HJ. **Hospitals** 1990 Sep 20;64(18):30, 32–5
ROI principles replace guesswork in purchasing. Moran EJ. **Hospitals** 1990 Mar 5;64(5):62
Sustaining a competitive advantage in the '90s. Shortell S. **Hospitals** 1990 Mar 5;64(5):72
Age-related changes in the likelihood of major contributions. Mumford MD, et al. **Int J Aging Hum Dev** 1989; 29(3):171–94
Real wages, the economic cycle, and mortality in England and Wales, 1870–1914. Blane D. **Int J Health Serv** 1990; 20(1):43–52
Escalation of the nurse-physician conflict: registered care technologists and the economic crisis. Chernomas R, et al. **Int J Health Serv** 1989;19(4):635–50
Utilities and quality-adjusted life years. Torrance GW, et al. **Int J Technol Assess Health Care** 1989;5(4):559–75
Iowa's economy in the coming decade. Siegelman H. **Iowa Med** 1990 Jan;80(1):12–3
Practice valuation: an analytical approach. Manski RJ, et al. **J Am Dent Assoc** 1990 Jun;120(6):671–6
Putting hubby through—the compensatory support conundrum. Colman GC. **J Can Dent Assoc** 1990 Mar; 56(3):201–2
Free trade: what kind of domestic policies do we need to make it work? Gillies J. **J Can Dent Assoc** 1990 Jul; 56(7):583–4
A case study in the politics of free-market health care. Begun JW, et al. **J Health Polit Policy Law** 1982 Fall;7(3):667–85
Some pitfalls in creating competition between HMOs and fee-for-service delivery. Homer CG. **J Health Polit Policy Law** 1982 Fall;7(3):686–706
Capital cost reimbursement to community hospitals under Federal health insurance programs. Kinney ED, et al. **J Health Polit Policy Law** 1982 Fall;7(3):648–66
Free enterprise, professional ideology, and self-interest: an analysis of resistance by Canadian physicians to universal health insurance. Globerman J. **J Health Soc Behav** 1990 Mar;31(1):11–27
QALYs: are they enough? A health economist's perspective [comment] Mooney G. **J Med Ethics** 1989 Sep;15(3):148–52 Comment on: J Med Ethics 1989 Sep;15(3):143–7.
The QALY argument: a physician's and a philosopher's view. Rawles J, et al. **J Med Ethics** 1990 Jun;16(2):93–4
Castigating QALYs [see comments] Rawles J. **J Med Ethics** 1989 Sep;15(3):143–7 Comment in: J Med Ethics 1989 Sep;15(3):148–52.
Is survival dependent on success in the competition for extramural dollars? Conway ME. **J Prof Nurs** 1989 Nov–Dec;5(6):302
For profits: a look at the bottom line. Fein R. **J Public Health Policy** 1990 Spring;11(1):49–61
When is treatment for cancer economically justified? Discussion paper. Jennett B, et al. **J R Soc Med** 1990 Jan; 83(1):25–8
Clinical decision making: from theory to practice. Connecting value and costs. Whom do we ask, and what do we ask them? Eddy DM. **JAMA** 1990 Oct 3;264(13):1737–9
From the Office of the General Counsel. When health care payers have market power. Ile ML. **JAMA** 1990 Apr 11; 263(14):1981–2, 1986
Quality-adjusted life-years. Ethical implications for physicians and policymakers. La Puma J, et al. **JAMA** 1990 Jun 6;263(21):2917–21
Central America: the cost of war. Chelala CA. **Lancet** 1990 Jan 20;335(8682):153–4
Third world debt crisis [letter] Krock E. **Lancet** 1989 Oct 14;2(8668):922
Alcohol taxes: the case for reform [editorial] Richardson J. **Med J Aust** 1990 Jun 18;152(12):619–20
Competition. Here's what physicians can do to meet it. Conomikes GS. **Mich Med** 1990 Feb;89(2):24–5
United States disability policy in a time of economic crisis: a comparison with Sweden and the Federal Republic of Germany. Burkhauser RV, et al. **Milbank Q** 1989;67 Suppl 2 Pt 1:166–94
The use of quality-adjusted life years (QALYs) in the economic appraisal of health care. Kawachi I, et al. **N Z Med J** 1990 Feb 14;103(883):46–8
Sensitivity in the World Dynamics Model. Salerno J. **Nature** 1973 Aug 24;244(5417):488–92
The development of concepts of economic and social inequality. Leahy RL. **New Dir Child Dev** 1990 Winter; (46):107–20
Effects of d-amphetamine on choice of social versus monetary reinforcement: a discrete-trial test. Higgins ST, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):297–301
A case at last for age-phased reduction in equity. Samuelson PA. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):9048–51
Mortality risks induced by economic expenditures. Keeney RL. **Risk Anal** 1990 Mar;10(1):147–59 (42 ref.)
Are large differences in "lifesaving" costs justified? A psychometric study of the relative value placed on preventing deaths. Mendeloff JM, et al. **Risk Anal** 1989 Sep;9(3):349–63
A comment on the meaning of numerical valuations of health states [letter] Nord E. **Soc Sci Med** 1990;30(8):943–4
Economic stress and suicide: multilevel analyses. Part 2: Cross-level analyses of economic stress and suicidal ideation. Dooley D, et al. **Suicide Life Threat Behav** 1989 Winter;19(4):337–51
Recession, structural adjustment and infant health: the need for a human face. Stewart F. **Trans R Soc Trop Med Hyg** 1989 Jan–Feb;83(1):30–1
The relation of the holocaust to bioethics [editorial] Edwards RW. **Wis Med J** 1989 Nov;88(11):12–3
[The health market] Raivio K. **Duodecim** 1989; 105(22):1796–800 **(Fin)**
[Economic evaluation of therapeutic strategies. Finality, methods] Launois R. **Arch Mal Coeur** 1989 Oct;82 Spec No 3:43–7 (Eng. Abstr.) **(Fre)**
[Forensic evaluation of physical damage in the early Middle Ages—a comparison with current occupational disability guidelines] Feldmann H. **Laryngorhinootologie** 1990 Mar; 69(3):166–70 (Eng. Abstr.) **(Ger)**
[Price of tobacco products and the smoking epidemic] Ben-Moshe Y, et al. **Harefuah** 1990 May 1;118(9):549–51 (23 ref.) **(Heb)**
[Sociological and psychological aspects of commercial exchange transactions in the Auschwitz-Birkenau concentration camp] Kłodziński S, et al. **Przegl Lek** 1990; 47(1):50–77 **(Pol)**
[Diagnostic value of the MMPI alcoholism scales in assessing the risk of alcohol dependence among students] Sławińska JB, et al. **Psychiatr Pol** 1989 May–Jun;23(3):194–9 (Eng. Abstr.) **(Pol)**

LEGISLATION & JURISPRUDENCE
Competition among doctors [editorial] Havard J. **BMJ** 1989 Aug 12;299(6696):406–7
Anticompetitive conduct: the committee on peer review. Harris A. **Colo Med** 1990 Jul;87(7):192–3
Linking Medicare capital payments to hospital occupancy rates. Hemesath M, et al. **Health Aff (Millwood)** 1989 Fall; 8(3):104–16
Academic radiology, turf conflict and antitrust laws. James AE Jr, et al. **Invest Radiol** 1990 Feb;25(2):200–2
Health care costs and personal bankruptcy. Gold BA, et al. **J Health Polit Policy Law** 1982 Fall;7(3):734–9
Collective negotiation and antitrust: Part 3. Antitrust laws and your practice. **J Miss State Med Assoc** 1990 Feb; 31(2):47–50
An intervention to reduce the sale of cigarettes to minors. Skretny MT, et al. **N Y State J Med** 1990 Feb;90(2):54–5

STATISTICS & NUMERICAL DATA
International health care expenditure trends: 1987. Schieber GJ, et al. **Health Aff (Millwood)** 1989 Fall;8(3):169–77
Hospital supply expenses up 28.2% since 1984. **Hospitals** 1990 Mar 20;64(6):14

TRENDS
For whom the bell tolls. Conner SL. **Ala Med** 1990 Apr; 59(10):4, 6
New challenges for occupational health services facing economic reform in China. Lu PL, et al. **Biomed Environ Sci** 1989 Mar;2(1):17–23
Will libraries exist in the year 2000? The effect of prices on collections. Pascarelli AM. **Bull N Y Acad Med** 1989 Oct; 65(8):859–65
Competitive reform and nonprice competition: implications for the hospital industry. Higgins CW. **Health Care Manage Rev** 1989 Fall;14(4):57–66 (77 ref.)
Public social welfare expenditures, fiscal years 1965–87. Bixby AK. **Soc Secur Bull** 1990 Feb;53(2):10–26
Health and development. Damiba PC. **World Health Forum** 1989;10(3–4):417–9
[A system of introduction of the results of scientific research on hygiene into practical health care and national economics] Eksler ND, et al. **Gig Tr Prof Zabol** 1989; (11):26–8 (Eng. Abstr.) **(Rus)**

ECONOMICS, DENTAL

see related
OFFICE MANAGEMENT
Provision of dental pensions. Taylor KC. **Br Dent J** 1989 Sep 9;167(5):176–7
Area dentists concerned that military bases will probably be phased out [news] **Can Dent Assoc J** 1989 Oct;55(10):763–4
[Third-party payment system. Analysis of surveys performed in the province of Limbourg and in the department of Louvain] Hoffbauer J, et al. **Rev Belge Med Dent** 1990; 45(1):43–54 (Eng. Abstr.) **(Fre)**
[Survey of the problems of young dentists] Rombaut H, et al. **Rev Belge Med Dent** 1990;45(1):34–42 (Eng. Abstr.) **(Fre)**

ECONOMICS, HOSPITAL

Financial analysis of an inner-city helicopter service: charges versus collections for patients transferred from another acute care facility. Woods JR, et al. **Ann Emerg Med** 1989 Nov;18(11):1240–3
Utilisation of acute hospitals by age and sex in Australia, 1985. Mathers CD, et al. **Community Health Stud** 1989; 13(3):316–28
What price prematurity? Schwartz RM. **Fam Plann Perspect** 1989 Jul–Aug;21(4):170–4
Competitive reform and nonprice competition: implications for the hospital industry. Higgins CW. **Health Care Manage Rev** 1989 Fall;14(4):57–66 (77 ref.)
ProPAC: nonlabor PPS adjustment isn't feasible. Robinson ML. **Hospitals** 1989 Oct 5;63(19):22
Hospitals' responses to fiscal pressures may hold lessons for us [comment] Tresnowski BR. **Inquiry** 1989 Fall; 26(3):315–6 Comment on: Inquiry 1989 Fall;26(3):354–65.
Technical Working Group B report: government and donor support for breastfeeding promotion in hospitals and maternity care institutions. **Int J Gynaecol Obstet** 1990;31 Suppl 1:141–2; discussion 143–4
Where do we go from here? Rue NB. **J Ky Med Assoc** 1990 Jun;88(6):279–80
Can worker's compensation be a cost savings? Spann K, et al. **J Nurs Adm** 1990 Apr;20(4):6
NHS reforms: doctor's legal challenge fails [news] Brahams D. **Lancet** 1990 Mar 3;335(8688):528–9
A comparison of the effects of per case and per diem based charges on the distribution of hospital costs across employer groups. Cline KE. **Med Care** 1990 Aug; 28(8):681–702
The impact of administratively necessary days on hospital costs. Welch WP, et al. **Med Care** 1989 Dec;27(12):1117–32
Costs of magnetic resonance imaging in public hospitals [editorial] Crowe BL, et al. **Med J Aust** 1990 Apr 16; 152(8):393
The effect of the Medicare prospective payment system on the adoption of new technology. The case of cochlear implants [see comments] Kane NM, et al. **N Engl J Med** 1989 Nov 16;321(20):1378–83 Comment in: N Engl J Med 1990 May 3;322(18):1322–3.
Roerig extends antibiotic guarantee [news] **Oncology (Williston Park)** 1990 Feb;4(2):34
What future for Diagnosis Related Groups? [editorial] Eggli Y. **Soz Praventivmed** 1989;34(4):149–51 **(Eng, Fre)**
[Collection and elaboration of the economic information necessary for calculating the costs of therapeutic decisions] Viens-Bitker C, et al. **Arch Mal Coeur** 1989 Oct;82 Spec No 3:49–53 (Eng. Abstr.) **(Fre)**
[Program for a medical information system at the Public Welfare Hospitals in Paris] Frutiger P, et al. **Soz Praventivmed** 1989;34(4):179–84 (Eng. Abstr.) **(Fre)**

STATISTICS & NUMERICAL DATA

Hospitals' financial performance in the first five years of PPS. Guterman S, et al. **Health Aff (Millwood)** 1990 Spring; 9(1):125–34
Exclusive HAS/Monitrend II data from AHA. **Hospitals** 1990 Feb 5;64(3):16, 18
High Medicare hospitals seek fair share from Congress. Burke M. **Hospitals** 1990 Jun 20;64(12):38, 40–1, 43–5
AHA: inflation up, but hospital results stable. Coleman J. **Hospitals** 1990 Feb 5;64(3):60–1
First look at 1990: expenses up, revenue fades. Coleman J. **Hospitals** 1990 Aug 5;64(15):70–1
AHA: utilization declines; financial pressures moderate. Coleman J. **Hospitals** 1990 May 5;64(9):42, 44
AHA: margins uncertain; inflation offsets gains. Dyer C. **Hospitals** 1989 Nov 5;63(21):66, 68
Proposed legislation would blunt area wage index changes. Sandrick K. **Hospitals** 1990 Sep 20;64(18):36–8, 40

TRENDS

What's wrong with our hospitals? [editorial] [see comments] Mant A. **Aust Fam Physician** 1990 Jan;19(1):13 Comment in: Aust Fam Physician 1990 Apr;19(4):595.
PPS operating margins: the flip side [letter] Henikoff LM. **Health Aff (Millwood)** 1990 Summer;9(2):238–9
Disproportionate-share payment sparks policy debate. Burke M. **Hospitals** 1990 Aug 20;64(16):33–4, 36
A year of more of the same payment problems. Burke M. **Hospitals** 1989 Dec 20;63(24):18
Better days are ahead for hospitals [interview by Julie Johnson] Cleverley W. **Hospitals** 1989 Nov 20;63(22):66–7, 72, 74
Access loss forces Medicaid strategy evaluation. Larkin H. **Hospitals** 1989 Oct 20;63(20):22, 24–5
McCarthy assesses the issues, looks to future strategy debate. McCarthy C. **Hospitals** 1990 Sep 5;64(17):40, 42, 44–6
Selective contracting in California: an update. Johns L. **Inquiry** 1989 Fall;26(3):345–53
Hospital charges [editorial] Brewer MS. **J Ky Med Assoc** 1990 Jul;88(7):357
Implementing salary cost per unit of service productivity standards. Strasen L. **J Nurs Adm** 1990 Mar;20(3):6–10
AIDS cases top 100,000; hospitals feel crunch [news] **Pa Med** 1989 Oct;92(10):26, 28
Clinical intensity versus cost containment: conflicting pressures on hospital care. Schroeder SA. **Trans Stud Coll Physicians Phila** 1990 Jun;12(2):175–205
The future of the hospital: an economist's perspective. Sloan FA. **Trans Stud Coll Physicians Phila** 1990 Jun;12(2):227–62
Hospitals and the public purse. Vladeck BC. **Trans Stud Coll Physicians Phila** 1990 Jun;12(2):263–94
[Trends in the utilization of DRGs in Belgium] Closon MC. **Sos Preventivmed** 1989;34(4):167–74 (Eng. Abstr.) (Fre)
[The future of hospitals—hospitals of the future] Westphal E. **Med Klin** 1990 Apr 15;85(4):216–9 (Ger)
[Responsibilities and occupational performance of the economic director of a district hospital with an expanded field of responsibilities] Pröger A. **Z Gesamte Hyg** 1989 Jun;35(6):314–6 (Ger)
[Determination of conventional economics of financial resources in experimental intensification of hospital bed fund utilization] Semenov VIu. **Sov Zdravookhr** 1989; (9):19–22 (Eng. Abstr.) (Rus)
[A system of compensation and incentives in the hospital (letter)] Cadierno M. **Med Clin (Barc)** 1989 Sep 16; 93(7):276–7 (Spa)

ECONOMICS, MEDICAL

see related
OFFICE MANAGEMENT

Economics and arthritis. Epstein WV. **Arthritis Rheum** 1990 May;33(5):746–9
The role of health economics [letter] Mugford M. **BMJ** 1989 Sep 16;299(6701):741
Has Ontario's health care system gone to the dogs? [letter] Goldberg RE. **Can Med Assoc J** 1990 Feb 1;142(3):203–4
Ethical and economic aspects of noncompliance and overtreatment [letter; comment] Wade JC. **Can Med Assoc J** 1990 Feb 1;142(3):204–5 Comment on: Can Med Assoc J 1989 Oct 15;141(8):777–80.
The pitfalls of free enterprise health care. Williams W. **Hospitals** 1990 Jul 20;64(14):64
Measurement of the personal cost of illness due to some major water-related diseases in an Indian rural population. Verma BL, et al. **Int J Epidemiol** 1990 Mar;19(1):169–76
Clinical rounds for non-clinicians: some impressions. Walter SD, et al. **J Clin Epidemiol** 1990;43(6):613–8
AMA's blueprint for the future [editorial] Lacsamana RG. **J Fla Med Assoc** 1990 May;77(5):303
Funds for research [letter] Rose G. **J R Coll Gen Pract** 1989 May;39(322):211–2
Economics is everybody's business [editorial] Riesenberg D. **JAMA** 1989 Nov 24;262(20):2897
Cost-effectiveness and the future of medicine. Shulkin DJ. **JAMA** 1990 Jan 5;263(1):40
Simulated effects of incomes-based policies on the distribution of physicians. Hurley J. **Med Care** 1990 Mar; 28(3):221–38
A health care proposal: universal access with fiscal responsibility. Tuteur PG. **Mo Med** 1989 Dec;86(12):787–9
Informed consent and economic efficiency [letter] Bowie RD. **N Z Med J** 1990 Feb 28;103(884):79–80
Economic factors in formulating a national policy on the prevention by drugs of cardiovascular disease. Malcolm L. **N Z Med J** 1990 Aug 22;103(896):402–4 (41 ref.)
Ethical aspects of medical economics. Taylor RM. **Neurol Clin** 1989 Nov;7(4):883–900
The value of care: critical issue of the 90s [editorial] Spaeth GL. **Ophthalmic Surg** 1990 Mar;21(3):157–8
How to control U.S. health costs [letter] **Sci Am** 1990 Jul; 263(1):12
Business and managerial education in the medical school curriculum. Wholey MH, et al. **South Med J** 1990 Feb; 83(2):204–6
My favorite patients are on Medicaid. Scherger JE. **West J Med** 1990 Jan;152(1):92
[Problems in expressing performance in relation to costs in the health services] Stastná M. **Cesk Zdrav** 1990 Apr; 38(4):155–61 (Eng. Abstr.) (Cze)
[Money or life (editorial)] Krasnik A. **Ugeskr Laeger** 1989 Dec 18;151(51):3463 (Dan)
[Penicillin therapy and health economics (letter)] Møller NT. **Ugeskr Laeger** 1989 Dec 11;151(50):3415 (Dan)
[The value of life and limb] Pedersen KM, et al. **Ugeskr Laeger** 1990 Jan 22;152(4):212–7 (Eng. Abstr.) (Dan)
[What is healthy economy?] Pedersen KM, et al. **Ugeskr Laeger** 1989 Dec 18;151(51):3464–70 (29 ref.) (Eng. Abstr.) (Dan)
[Training of medical students in economics] Ermakov VV, et al. **Sov Zdravookhr** 1989;(10):61–2 (Rus)

HISTORY

[Definitive example of economy in health care. A cost-benefit study in Manzanillo in 1903] Fajardo-Ortíz G. **Gac Med Mex** 1990 Mar-Apr;126(2):122–4 (Spa)

STATISTICS & NUMERICAL DATA

Clinical economics. A guide to the economic analysis of clinical practices. Eisenberg JM. **JAMA** 1989 Nov 24; 262(20):2879–86 (44 ref.)

TRENDS

Our credo: a cap on costs equals reduction in quantity and quality of care [editorial] Reppun JI. **Hawaii Med J** 1989 Oct;48(10):413, 418
Medical malpractice rates decreased in 1989. Eubanks P. **Hospitals** 1989 Dec 20;63(24):56
Paychecks and security will lure future MDs. Koska MT. **Hospitals** 1989 Oct 5;63(19):56–7
The economics of medical care, 1940 to 1991 [editorial] Ball P. **Indiana Med** 1990 Apr;83(4):282
Physician inputs, outputs, and productivity, 1976–1986. Pope GC. **Inquiry** 1990 Summer;27(2):151–60
High-tech medicine and rising health care costs. Ginzberg E. **JAMA** 1990 Apr 4;263(13):1820–2
Countdown to millennium—balancing the professionalism and business of medicine. Medicine's Rocking Horse [editorial] Lundberg GD. **JAMA** 1990 Jan 5;263(1):86–7
Economics. Schramm CJ. **JAMA** 1990 May 16; 263(19):2635–7
Simpler times. Shulkin D, et al. **JAMA** 1989 Dec 15; 262(23):3240
Structural adjustment and health in Africa [letter] Ekwempu CC, et al. **Lancet** 1990 Jul 7;336(8706):56–7
A tough future for medicine. Udow M. **Mich Med** 1989 Sep; 88(9):53–4
Will centrifugal forces destroy the medical profession? [see comments] Benjamin WW. **N Engl J Med** 1989 Oct 26; 321(17):1191–2 Comment in: N Engl J Med 1990 Mar 15;322(11):779–80.
What lies ahead for medicine in 1990 and beyond. Jones DB. **Tex Med** 1990 Jan;86(1):26–30

ECONOMICS, NURSING

'Maid to order'? [letter] Shorts G. **Am J Nurs** 1990 Mar; 90(3):21
Going into business as a nurse. Welton JM. **Am J Nurs** 1989 Dec;89(12):1639–41
Setting up your own business. Facing the future as an entrepreneur. Brent NJ. **AORN J** 1990 Jan;51(1):205, 208, 210–3
Shortage of professional nursing practice: a reframing of the shortage problem [letter] Evans A. **Heart Lung** 1990 Jul; 19(4):430–1
Government intervention: is it necessary for nursing? Mullinix CF. **J Prof Nurs** 1990 Jan-Feb;6(1):5
Economic issues and nursing scholarship. Williams CA. **J Prof Nurs** 1989 Nov-Dec;5(6):301
[The need for nursing care and costs] Kanzow U. **Versicherungsmedizin** 1989 Sep 1;41(5):141–2 (Ger)

HISTORY

The past in the present. Donahue MP. **J Prof Nurs** 1990 Jan-Feb;6(1):9

TRENDS

Implementing salary cost per unit of service productivity standards. Strasen L. **J Nurs Adm** 1990 Mar;20(3):6–10
[The need for nursing care and costs] Kanzow U. **Versicherungsmedizin** 1989 Sep 1;41(5):141–2 (Ger)

ECT (PSYCHOTHERAPY) see ELECTROCONVULSIVE THERAPY

ECTHYMA

COMPLICATIONS

Beta-lactamase gonorrhoea with penile streptococcal ecthyma. Abdul Gaffoor PM, et al. **Indian J Dermatol** 1989 Jun;34(2):42–3

MICROBIOLOGY

Ecthyma gangrenosum in the absence of Pseudomonas bacteremia in a bone marrow transplant recipient. Wolf JE, et al. **Am J Med** 1989 Nov;87(5):595–7

PATHOLOGY

Facial ulcerations in an immunocompromised patient. Ecthyma gangrenosum. Blumenthal NC, et al. **Arch Dermatol** 1990 Apr;126(4):529, 532

ECTHYMA, CONTAGIOUS

DIAGNOSIS

Human orf. A diagnostic consideration? Gill MJ, et al. **Arch Dermatol** 1990 Mar;126(3):356–8
Orf: a case report. Mohr BW, et al. **Henry Ford Hosp Med J** 1989;37(2):79–80

ETIOLOGY

Atypical contagious ecthyma in a sheep after extensive cutaneous thermal injury. Hooser SB, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1255–6

IMMUNOLOGY

Immune response of lambs to experimental infection with Orf virus. Yirrell DL, et al. **Vet Immunol Immunopathol** 1989 Nov 15;22(4):321–32

MICROBIOLOGY

Vaccination of sheep with cell culture grown orf virus. Pye D. **Aust Vet J** 1990 May;67(5):182–6
Detection of contagious pustular dermatitis virus of goats in a severe outbreak. Mazur C, et al. **Vet Rec** 1989 Oct 14;125(16):419–20

PATHOLOGY

Erythematous nodules on the hand. Orf (ecthyma contagiosum). O'Neill JF, et al. **Arch Dermatol** 1990 Feb; 126(2):237, 240
Orf. Mendez B, et al. **Cutis** 1989 Oct;44(4):286–7
[Is orf (ecthyma contagiosum) still a current disease?] Peschlow I, et al. **Dermatol Monatsschr** 1990;176(1):63–8 (Eng. Abstr.) (Ger)

ECTO-5'-NUCLEOTIDASE see 5'-NUCLEOTIDASE

ECTODERM

[Scale induction in the chick amnionic ectoderm attached to tarsometatarsal skin dermis] Mizuno T, et al. **C R Soc Biol (Paris)** 1989;183(6):551–4 (Eng. Abstr.) (Fre)

CYTOLOGY

Mechanisms of a cellular decision during embryonic development of Drosophila melanogaster: epidermogenesis or neurogenesis. Campos-Ortega JA. **Adv Genet** 1990; 27:403–53 (142 ref.)
Neural differentiation of Xenopus laevis ectoderm takes place after disaggregation and delayed reaggregation without inducer. Grunz H, et al. **Cell Differ Dev** 1989 Dec; 28(3):211–7
Tissue interactions in development of teeth and related ectodermal derivatives. Kollar EJ. **Dev Biol (N Y 1985)** 1986;4:297–313 (60 ref.)
Systematic elimination of parthenogenetic cells in mouse chimeras. Fundele R, et al. **Development** 1989 May; 106(1):29–35
Effect of head activator on proliferation, head-specific determination and differentiation of epithelial cells in hydra. Schaller HC, et al. **Differentiation** 1990 Jun; 43(3):157–64
Electric-field-induced permeabilization and fusion of embryonic amphibian cells. Maurel P, et al. **Exp Cell Res** 1989 Sep;184(1):207–18
Patterns of physiological cell death and mitoses in the apical ectodermal ridge in normodactylous and polydactylous rat limb buds. A quantitative evaluation. Antaliková L, et al. **Folia Biol (Praha)** 1989;35(5):339–46
Rapid preimplantation detection of mutant (shiverer) and normal alleles of the mouse myelin basic protein gene allowing selective implantation and birth of live young. Gomez CM, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4481–4
Adhesion and fusion of the extraembryonic epiblast. Chernoff

EA. **Tissue Cell** 1989;21(5):735–46

[The distribution of competence for adenohypophysis development in the ectoderm of chick embryos] Fedtsova NG, et al. **Ontogenez** 1990 May–Jun;21(3):254–60 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

[Neural differentiation of ectodermal explants of the early gastrula from Rana temporaria under the action of various mitogens and kainic acid] Mikhallov AT, et al. **Ontogenez** 1989 Sep–Oct;20(5):507–15 (Eng. Abstr.) **(Rus)**

METABOLISM

A hyaline layer protein that becomes localized to the oral ectoderm and foregut of sea urchin embryos. Coffman JA, et al. **Dev Biol** 1990 Jul;140(1):93–104

Neural expression of the Xenopus homeobox gene Xhox3: evidence for a patterning neural signal that spreads through the ectoderm. Ruiz i Altaba A. **Development** 1990 Apr; 108(4):595–604

XK endo B is preferentially expressed in several induced embryonic tissues during the development of Xenopus laevis. LaFlamme SE, et al. **Differentiation** 1990 Mar; 43(1):1–9

Regional variations in the tightness of the ectodermal epithelium in the developing chick embryo: a study using ion-sensitive microelectrodes. Carnan E, et al. **J Exp Zool** 1990 Aug;255(2):186–92

PATHOLOGY

[A strategy for immortalizing lines committed to endoderm, neuroectoderm or mesoderm from mouse teratocarcinoma] Buc-Caron MH, et al. **Reprod Nutr Dev** 1990;30(3):309–16 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Segregation of oral from aboral ectoderm precursors is completed at fifth cleavage in the embryogenesis of Strongylocentrotus purpuratus. Cameron RA, et al. **Dev Biol** 1990 Jan;137(1):77–85

Comparison between ectoderm-conditioned medium and fibronectin in their effects on chondrogenesis by limb bud mesenchymal cells. Zanetti NC, et al. **Dev Biol** 1990 Jun; 139(2):383–95

Expression of an engrailed-related protein is induced in the anterior neural ectoderm of early Xenopus embryos. Brivanlou AH, et al. **Development** 1989 Jul;106(3):611–7

Isolation of a chick cytokeratin cDNA clone indicative of regional specialization in early embryonic ectoderm. Charlebois TS, et al. **Development** 1990 Jan;108(1):33–45

Ectodermal inhibition of cartilage differentiation in micromass culture of chick limb bud mesenchyme in relation to gene expression and cell shape. Gregg BC, et al. **Development** 1989 Apr;105(4):769–77

Lithium changes the ectodermal fate of individual frog blastomeres because it causes ectopic neural plate formation. Klein SL, et al. **Development** 1989 Jul; 106(3):599–610

Cutaneous nerves of the embryonic chick wing do not develop in regions denuded of ectoderm. Martin P, et al. **Development** 1989 Jun;106(2):335–46

The albino-deletion complex in the mouse defines genes necessary for development of embryonic and extraembryonic ectoderm. Niswander L, et al. **Development** 1989 Jan;105(1):175–82

Regionalisation of the mouse embryonic ectoderm: allocation of prospective ectodermal tissues during gastrulation. Tam PP. **Development** 1989 Sep;107(1):55–67

From presumptive ectoderm to neural cells in an amphibian. Duprat AM, et al. **Int J Dev Biol** 1990 Mar;34(1):149–56 (32 ref.)

Temporal and spatial transcriptional regulation of the aboral ectoderm-specific Spec genes during sea urchin embryogenesis. Tomlinson CR, et al. **Mol Reprod Dev** 1990 Apr;25(4):328–38

[A possible molecular mechanism of the inductive interaction between organizer and the competent ectoderm] Takata K. **Yakubutsu Seishin Kodo** 1989 Dec;9(4):389–96 (18 ref.) **(Jpn)**

ULTRASTRUCTURE

Communication compartments in the post-trochal ectoderm of the mollusc Lymnaea stagnalis. Serras F, et al. **Exp Cell Res** 1990 Apr;187(2):284–91

ECTODERMAL DEFECT, CONGENITAL see **ECTODERMAL DYSPLASIA**

ECTODERMAL DYSPLASIA

Rapp-Hodgkin ectodermal dysplasia. Santos H, et al. **Acta Paediatr Scand** 1990 Feb;79(2):245–7

Focal dermal hypoplasia (Goltz syndrome). Temple IK, et al. **J Med Genet** 1990 Mar;27(3):180–7

Rapp-Hodgkin ectodermal dysplasia. Felding IB, et al. **Pediatr Dermatol** 1990 Jun;7(2):126–31

Goltz syndrome. Moore DJ, et al. **Pediatr Dermatol** 1989 Sep;6(3):251–3 (6 ref.)

BLOOD

[Hypercupremia associated with ectomesodermal dysplasia] Zubiaurre B, et al. **An Esp Pediatr** 1990 Mar;32(3):268–70 **(Spa)**

COMPLICATIONS

"New" ectodermal dysplasia syndrome with distinctive facial appearance and preaxial polydactyly of feet. Wilson WG, et al. **Am J Med Genet** 1989 Oct;34(2):227–9

Penetrating keratoplasty in ectodermal dysplasia. Mader TH, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):319–20

Anophthalmia in the focal dermal hypoplasia syndrome. Marcus DM, et al. **Arch Ophthalmol** 1990 Jan;108(1):96–100

Pseudoainhum in Clouston's disease. Somasundaram V, et al. **Int J Dermatol** 1990 Apr;29(3):225–6

The Goltz syndrome associated with giant cell tumour of bone. A case report. Tanaka H, et al. **Int Orthop** 1990; 14(2):179–81

Trichothiodystrophy: review of sulfur-deficient brittle hair syndromes and association with the ectodermal dysplasias. Itin PH, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):705–17 (88 ref.)

Central osteosclerosis with ectodermal dysplasia: clinical, laboratory, radiologic, and histopathologic characterization with review of the literature. Civitelli R, et al. **J Bone Miner Res** 1989 Dec;4(6):863–75 (47 ref.)

Choanal atresia as a feature of ectrodactyly-ectodermal dysplasia-clefting (EEC) syndrome [see comments] Christodoulou J, et al. **J Med Genet** 1989 Sep;26(9):586–9 Comment in: J Med Genet 1990 Mar;27(3):213.

[Focal dermal hypoplasia, or the Goltz-Gorlin syndrome] van Beek RH, et al. **Tijdschr Kindergeneeskd** 1990 Jun; 58(3):103–4 (Eng. Abstr.) **(Dut)**

[Additional data on the article "Ectrodactylia, ectodermal dysplasia, cleft lip and palate syndrome", by G. Ostorharics-H. and Ildikó Lázár (letter)] Elek C. **Orv Hetil** 1990 Apr 8;131(14):779 **(Hun)**

[Ectrodactyly, ectodermal dysplasia, cleft lip and palate syndrome (EEC syndrome)] Ostorharics-Horváth G, et al. **Orv Hetil** 1989 Oct 8;130(41):2211–2 (Eng. Abstr.) **(Hun)**

[Total alopecia in children] Baliavichene GR. **Pediatriia** 1990; (2):82–4 **(Rus)**

[Anhidrotic ectodermal dysplasia: congenital ozena] Ibañes Cárcamo E. **Acta Otorrinolaringol Esp** 1990 Mar-Apr; 41(2):107–9 (Eng. Abstr.) **(Spa)**

[Anhidrotic ectodermal dysplasia as a cause of fever of undetermined origin (presentation of a case)] Palau MG, et al. **Rev Med Panama** 1990 May;15(2):106–11 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Cardio-facio-cutaneous (CFC) syndrome: report of a new patient. Chrzanowska K, et al. **Am J Med Genet** 1989 Aug; 33(4):471–3

A case of cardio-facio-cutaneous syndrome. Mucklow ES. **Am J Med Genet** 1989 Aug;33(4):474–5

New cases of dermoodontodysplasia? Pinheiro M, et al. **Am J Med Genet** 1990 Jun;36(2):161–6

CFC syndrome: report on three additional cases. Sorge G, et al. **Am J Med Genet** 1989 Aug;33(4):476–8

A new autosomal recessive disorder resembling Weaver syndrome. Teebi AS, et al. **Am J Med Genet** 1989 Aug; 33(4):479–82

Prenatal diagnosis of X-linked hypohidrotic ectodermal dysplasia by linkage analysis. Zonana J, et al. **Am J Med Genet** 1990 Jan;35(1):132–5

[An example of detection of heterozygotes and antenatal diagnosis in four families with anhidrotic ectodermal dysplasia] Szpiro-Tapia S, et al. **Ann Pediatr (Paris)** 1990 Jan;37(1):13–9 (Eng. Abstr.) **(Fre)**

[Dysgenesis of the neural crest, ectoderm, mesoderm and fetal alcohol syndrome] Martin XD, et al. **Klin Monatsbl Augenheilkd** 1990 May;196(5):279–84 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Clinical variation of autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy (APECED) in a series of 68 patients. Ahonen P, et al. **N Engl J Med** 1990 Jun 28;322(26):1829–36

GENETICS

Dry skin and extranumerary areolae [letter] Freire-Maia N, et al. **Am J Med Genet** 1990 Jan;35(1):141

Facial morphometrics in the identification of gene carriers of X-linked hypohidrotic ectodermal dysplasia. Saksena SS, et al. **Am J Med Genet** 1990 Jan;35(1):105–14

Female with hypohidrotic ectodermal dysplasia and de novo (X;9) translocation. Clinical documentation of the AnLy cell line case. MacDermot KD, et al. **Hum Genet** 1990 May;84(6):577–9

A single maxillary incisor as a manifestation of an ectodermal dysplasia. Buntinx I, et al. **J Med Genet** 1989 Oct; 26(10):648–51

Possible genetic heterogeneity in X linked hypohidrotic ectodermal dysplasia. Goodship J, et al. **J Med Genet** 1990 Jul;27(7):422–5

Association of ectodermal dysplasia, ectrodactyly and macular dystrophy: EEM syndrome (case report). Hayakawa M, et al. **Ophthalmic Paediatr Genet** 1989 Dec; 10(4):287–92

[A new case of Goltz's syndrome] Malfait Y, et al. **Ann Dermatol Venereol** 1989;116(10):715–8 (22 ref.) **(Fre)**

[Hypohidrotic ectodermal dysplasia syndrome. Description of a clinical case] Bonvini G, et al. **Pediatr Med Chir** 1989 Jul-Aug;11(4):467–9 (14 ref.) (Eng. Abstr.) **(Ita)**

[A typical cases of X-linked anhidrotic ectodermal dysplasia and a diagnosis of carriers] Yamamoto Y, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Mar;100(4):527–32 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Cutaneous defects of focal dermal hypoplasia: an ectomesodermal dysplasia syndrome. Howell JB, et al. **J Cutan Pathol** 1989 Oct;16(5):237–58

Unusual cutaneous manifestations of anhidrotic ectodermal dysplasia—a case report. Shah KC, et al. **J Dermatol** 1990 Jun;17(6):380–4

Structural hair abnormalities in ectodermal dysplasia. Micali G, et al. **Pediatr Dermatol** 1990 Mar;7(1):27–32

PHYSIOPATHOLOGY

Sweating in ectodermal dysplasia syndromes. A review. Berg D, et al. **Arch Dermatol** 1990 Aug;126(8):1075–9 (57 ref.)

Thermal exchanges during sleep in anhidrotic ectodermal dysplasia. Buguet A, et al. **Eur J Appl Physiol** 1990; 59(6):454–9

Acetylcholine-induced activation of the eccrine sweat glands in a case of hypohidrotic congenital ectodermal dysplasia. Kanai M, et al. **J Electron Microsc (Tokyo)** 1989; 38(5):371–81

THERAPY

Prosthetic management of hypohydrotic ectodermal dysplasia with anodontia. Case report. Shaw RM. **Aust Dent J** 1990 Apr;35(2):113–6

Induction of sweat glands by epidermal growth factor in murine X-linked anhidrotic ectodermal dysplasia. Blecher SR, et al. **Nature** 1990 Jun 7;345(6275):542–4

ECTOHORMONES see **PHEROMONES**

ECTOPARASITIC INFESTATIONS

EPIDEMIOLOGY

The frequency of shared delusions in delusions of infestation. Musalek M, et al. **Eur Arch Psychiatry Neurol Sci** 1990; 239(4):263–6

[Epidemiology of communicable skin diseases in school children of a rural area in North Ethiopia] Dagnew MB, et al. **Dermatol Monatsschr** 1990;176(4):219–23 (Eng. Abstr.) **(Ger)**

HISTORY

Records of ectoparasites on humans and sheep from Viking-age deposits in the former western settlement of Greenland. Sadler JP. **J Med Entomol** 1990 Jul; 27(4):628–31

PARASITOLOGY

[Population contacts in the Republic of Guinea with ectoparasites and rodents based on questionnaire data. I. The tasks and the scope of the questionnaire] Lapshov VA, et al. **Med Parazitol (Mosk)** 1990 Jan-Feb;(1):23–9 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Ultrastructural findings in tungiasis. Fimiani M, et al. **Int J Dermatol** 1990 Apr;29(3):220–2

Feline pinnal dermatitis [letter; comment] White SM. **Vet Rec** 1990 Mar 10;126(10):249–50 Comment on: Vet Rec 1990 Jan 27;126(4):89–90.

PSYCHOLOGY

Successful treatment of chronic delusional parasitosis. Mitchell C. **Br J Psychiatry** 1989 Oct;155:556–7

Treating a woman who believes she has bugs under her skin [see comments] Frances A, et al. **Hosp Community Psychiatry** 1989 Nov;40(11):1113–4 Comment in: Hosp Community Psychiatry 1990 Apr;41(4):454.

[Delusions of parasitic skin infestation in elderly dermatologic patients] Hornstein OP, et al. **Z Hautkr** 1989 Nov 15; 64(11):981–2, 985–9 (Eng. Abstr.) **(Ger)**

VETERINARY

Organophosphate poisoning of Atlantic salmon in connection with treatment against salmon lice. Horsberg TE, et al. **Acta Vet Scand** 1989;30(4):385–90

Ecology and management of arthropod pests of poultry. Axtell RC, et al. **Annu Rev Entomol** 1990;35:101–26 (174 ref.)

Trapping sheep blowflies using bait-bins. Anderson JM, et al. **Aust Vet J** 1990 Mar;67(3):93–7

Identification of Gasterophilus haemorrhoidalis in Queensland. Pearse BH, et al. **Aust Vet J** 1989 Nov;

66(11):380
Organophosphorus hazard to pet grooms [letter] Turner AJ. **Aust Vet J** 1990 Apr;67(4):N121
Opposing viewpoints on efficacy of ultrasonic flea collars [letter; comment] Bonge NJ. **J Am Vet Med Assoc** 1990 May 1;196(9):1354–5 Comment on: J Am Vet Med Assoc 1989 Dec 15;195(12):1717–8.
Observations on flea bite allergic dermatitis [letter] Craige JE. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1192–3
Effects of ultrasonic flea collars on Ctenocephalides felis on cats [see comments] Dryden MW, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1717–8 Comment in: J Am Vet Med Assoc 1990 Mar 15;196(6):833–4. Comment in: J Am Vet Med Assoc 1990 May 1;196(9):1354–5.
Chronology of permethrin resistance in a southern Illinois population of the horn fly (Diptera: Muscidae) during and after selection by pyrethroid use. Weinzierl RA, et al. **J Econ Entomol** 1990 Jun;83(3):690–7
Ectoparasitic and phoretic arthropods of Virginia opossums (Didelphis virginiana) in central Tennessee. Durden LA, et al. **J Parasitol** 1990 Aug;76(4):581–3
The survivability of the ectoparasitic flagellate Ichthyobodo necator on chum salmon fry (Oncorhynchus keta) in seawater and comparison to Ichthyobodo sp. on Japanese flounder (Paralichthys olivaceus). Urawa S, et al. **J Parasitol** 1990 Feb;76(1):33–40
Epidemic oral ulceration in largemouth bass (Micropterus salmoides) associated with the leech Myzobdella lugubris. Noga EJ, et al. **J Wildl Dis** 1990 Jan;26(1):132–4
Ectoparasites of ring-necked pheasants in Nebraska. Payne WR, et al. **J Wildl Dis** 1990 Jul;26(3):407–9
Lesions associated with metazoan parasites of wild platypuses (Ornithorhynchus anatinus). Whittington RJ, et al. **J Wildl Dis** 1989 Oct;25(4):521–6
Overberg research projects. VI. The biology and control of Oestrus ovis in sheep in the winter rainfall areas of the southern Cape. Louw JP. **Onderstepoort J Vet Res** 1989 Dec;56(4):239–44
Vestigial marginal hooklets in the oncomiracidium of the microbothriid monogenean Leptocotyle minor. Kearn GC, et al. **Parasitol Res** 1990;76(5):406–8
Responses of the fish ectoparasite Salmincola edwardsii (Copepoda) to stimulation, and their implication for host-finding. Poulin R, et al. **Parasitology** 1990 Jun;100 Pt 3:417–21
Intradermal challenge of Icelandic horses with extracts of four species of the genus Culicoides. Halldorsdottir S, et al. **Res Vet Sci** 1989 Nov;47(3):283–7
Natural hosts of Glossina tachinoides (Diptera: Glossinidae) in northern Côte d'Ivoire. Küpper W, et al. **Trop Med Parasitol** 1990 Jun;41(2):217–8
Host association, on-host longevity and egg production of Ctenocephalides felis felis. Dryden MW. **Vet Parasitol** 1989 Nov;34(1–2):117–22
The relationships among ecto- and endoparasite levels, class I antigens of the bovine major histocompatibility system, immunoglobulin E levels and weight gain. Stear MJ, et al. **Vet Parasitol** 1990 Jan;34(4):303–21
Potential of infra-red thermography for the detection of summer seasonal recurrent dermatitis (sweet itch) in horses [see comments] Braverman Y. **Vet Rec** 1989 Sep 30; 125(14):372–4 Comment in: Vet Rec 1989 Oct 28;125(18):466.
Dermatitis in a cat associated with Spilopsyllus cuniculi [see comments] Harvey RG. **Vet Rec** 1990 Jan 27;126(4):89–90 Comment in: Vet Rec 1990 Mar 10;126(10):249–50.
Immunogenicity and allergenicity of Culicoides imicola (Diptera: Ceratopogonidae) extracts. Ungar-Waron H, et al. **Zentralbl Veterinarmed [B]** 1990 Feb;37(1):64–72
[Parasitic diseases in sheep and goats in Germany] Barutzki D. **Tierarztl Prax** 1990 Jun;18(3):245–50 (27 ref.) (Eng. Abstr.) (Ger)

ECTOPIA CORDIS see **HEART DEFECTS, CONGENITAL**

ECTOPIA LENTIS see under **HEART**

ECTOPIC HORMONE SYNDROMES see **NEOPLASTIC ENDOCRINE-LIKE SYNDROMES**

ECTOPIC TISSUE see **CHORISTOMA**

ECTROMELIA

CHEMICALLY INDUCED

Proximal phocomelia and radial ray aplasia in fetal valproic syndrome. Verloes A, et al. **Eur J Pediatr** 1990 Jan; 149(4):266–7

DIAGNOSIS

An unusual cardiomelic syndrome [letter; comment] Bowen P. **Am J Med Genet** 1990 Jan;35(1):139–40 Comment on: Am J Med Genet 1988 Feb;29(2):333–41.
Sirenomelia: prenatal sonographic features. Mok PM. **Australas Radiol** 1990 Feb;34(1):68–71
[Prenatal diagnosis of anatomo-pathologic aspects of 2 cases of sirenomelia] Pisoni MP, et al. **Minerva Ginecol** 1990 Apr; 42(4):147–51 (Eng. Abstr.) (Ita)
[A rare case of sirenomelia. Possibility of prenatal ultrasonic and radiologic diagnosis] Cavallotti GP, et al. **Minerva Pediatr** 1989 May;41(5):273–6 (Eng. Abstr.) (Ita)

EPIDEMIOLOGY

Amelia: incidence and associated defects in a large population. Froster-Iskenius UG, et al. **Teratology** 1990 Jan;41(1):23–31

ETIOLOGY

[Aplasia of the radius and mechanisms of deformity of the arm] Shved IA, et al. **Ortop Travmatol Protez** 1990 Mar; (3):11–6 (Eng. Abstr.) (Rus)

GENETICS

Ectro-amelia syndrome associated with an interstitial deletion of 7q. Morey MA, et al. **Am J Med Genet** 1990 Jan;35(1):95–9
Roberts-SC phocomelia syndrome with exencephaly. Verloes A, et al. **Ann Genet** 1989;32(3):169–70
A complex deformity of appendicular skeleton and shoulder with congenital heart disease in three generations of a Jordanian family. Boehme DH, et al. **Clin Genet** 1989 Dec; 36(6):442–50
Phocomelia and additional anomalies in two sisters. Schinzel A. **Hum Genet** 1990 May;84(6):539–41
[Acromesomelic dysplasia. Report of case] Iriondo Sanz M, et al. **An Esp Pediatr** 1990 Feb;32(2):167–70 (Spa)

PSYCHOLOGY

Phantom representations of congenitally absent limbs. Scatena P. **Percept Mot Skills** 1990 Jun;70(3 Pt 2):1227–32 (36 ref.)

REHABILITATION

Stubby prostheses in the rehabilitation of infants and small children with bilateral lower limb deficiencies. Kruger LM. **Rehabilitation (Stuttg)** 1990 Feb;29(1):12–5

SURGERY

[Krukenberg-plasty in young patients] Swanson AB, et al. **Rehabilitation (Stuttg)** 1990 Feb;29(1):19–24 (Eng. Abstr.) (Ger)
[Multi-stage treatment of congenital radial deformity in a child] Komarevtsev VD, et al. **Ortop Travmatol Protez** 1990 Mar;(3):58–9 (Rus)

ECTROMELIA, INFECTIOUS

GENETICS

[Vaccinia and ectromelia recombinant viruses, causing an infection, characteristic for ectromelia, in mice] Senkevich TG, et al. **Mol Gen Mikrobiol Virusol** 1989 Aug;(8):20–3 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Mousepox in inbred mice innately resistant or susceptible to lethal infection with ectromelia virus. V. Genetics of resistance to the Moscow strain. Brownstein D, et al. **Arch Virol** 1989;107(1–2):35–41
Evidence that NK cells and interferon are required for genetic resistance to lethal infection with ectromelia virus. Jacoby RO, et al. **Arch Virol** 1989;108(1–2):49–58

ECTROMELIA VIRUS

GENETICS

[Vaccinia and ectromelia recombinant viruses, causing an infection, characteristic for ectromelia, in mice] Senkevich TG, et al. **Mol Gen Mikrobiol Virusol** 1989 Aug;(8):20–3 (Eng. Abstr.) (Rus)

ECTROPION

COMPLICATIONS

Floppy eyelid syndrome associated with marked lower eyelid ectropion. Goldberg RA, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):610–2

CONGENITAL

Congenital iris ectropion and a new classification for anterior segment dysgenesis. Wilson ME. **J Pediatr Ophthalmol Strabismus** 1990 Jan–Feb;27(1):48–55
[Collodion baby. Apropos of a case with eye manifestations] Algan M, et al. **J Fr Ophtalmol** 1989;12(5):399–402 (Eng. Abstr.) (Fre)

ETIOLOGY

Cutaneous anthrax leading to corneal scarring from cicatricial ectropion. Yorston D, et al. **Br J Ophthalmol** 1989 Oct; 73(10):809–11

PHYSIOPATHOLOGY

[Atonic ectropion of the upper eyelid] George JL, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1443–4, 1447–8 (Eng. Abstr.) (Fre)

PREVENTION & CONTROL

The prevention and treatment of lower lid ectropion following blepharoplasty. Carraway JH, et al. **Plast Reconstr Surg** 1990 Jun;85(6):971–81

SURGERY

Oculoplastic surgery. Millay DJ. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):398–9

ECZEMA

BLOOD

[Lipid peroxidation in patients with true eczema] Fedorov SM, et al. **Vestn Dermatol Venerol** 1990;(2):32–3 (Eng. Abstr.) (Rus)

CHEMICALLY INDUCED

Compound allergy to Spectraban 15 lotion and Zovirax cream. Goh CL. **Contact Dermatitis** 1990 Jan;22(1):61–2
Labilin [letter] Grob W, et al. **Contact Dermatitis** 1990 Jul; 23(1):62–3
Sensitization to povidone-iodine. van Ketel WG, et al. **Dermatol Clin** 1990 Jan;8(1):107–9
Latex gloves as a cause of inflammation and eczema [letter; comment] Garred P, et al. **Lancet** 1990 Jun 16; 335(8703):1469 Comment on: Lancet 1990 Apr 14;335(8694):912.
[Allergy to Tégobétaïne: apropos of a case] Bonneau JC. **Allerg Immunol (Paris)** 1990 May;22(5):195 (Fre)
[Systemic eczematous contact type dermatitis] Aquilina C, et al. **Ann Dermatol Venereol** 1989;116(10):753–65 (Fre)
[Occupational dermatoses: clinical picture, noxious compounds, prevention] Raab W. **Wien Med Wochenschr** 1989 Nov 30;139(22):515–8 (9 ref.) (Eng. Abstr.) (Ger)

COMPLICATIONS

Unilateral skin conditions after hemiparesis [letter; comment] Thomsen K. **Acta Derm Venereol (Stockh)** 1989;69(6):544 Comment on: Acta Derm Venereol (Stockh) 1989;69(3):256–8.
Consequences of having hand eczema. Meding B, et al. **Contact Dermatitis** 1990 Jul;23(1):6–14
Multiple seborrheic verrucae following eczema—a case report. Horiuchi Y. **J Dermatol** 1989 Dec;16(6):505–7

DIET THERAPY

[Eczema and food allergy in the adult] Pacor ML, et al. **Recenti Prog Med** 1990 Mar;81(3):139–41 (Eng. Abstr.) (Ita)

DRUG THERAPY

A double-blind comparison of the efficacy of betamethasone dipropionate cream twice daily versus once daily in the treatment of steroid responsive dermatoses. English JS, et al. **Clin Exp Dermatol** 1989 Jan;14(1):32–4
Chinese herbs for eczema [letter] Harper JI, et al. **Lancet** 1990 Mar 31;335(8692):795
[Principles of treatment of eczema] Saurat JH. **Rev Med Suisse Romande** 1990 Mar;110(3):199–201 (Fre)
[Urea in combination with corticosteroids in treating eczema] Drosner M. **Hautarzt** 1989;40 Suppl 9:47–50 (19 ref.) (Eng. Abstr.) (Ger)
[Optimized interval treatment of eczema with fluprednidene. A multicenter double-blind study] Mahrle G, et al. **Z Hautkr** 1989 Sep 15;64(9):766–8, 773–4 (Eng. Abstr.) (Ger)
[Eczema diseases and erythemato-squamous dermatoses of aging skin—studies of the effectiveness and tolerance of Prednicarbate in various vehicles] Stary A, et al. **Z Hautkr** 1989 Nov 15;64(11):1010, 1013–4 (Eng. Abstr.) (Ger)
[Flurbiprofen in gel: study of acceptability, tolerability and evaluation of its allergenic potential] Pelfini C, et al. **G Ital Dermatol Venereol** 1989 Sep;124(9):XLIII–XLVI (Eng. Abstr.) (Ita)
[Usefulness of photochemotherapy in allergic diseases of the skin] Cisło M, et al. **Przegl Dermatol** 1989 Mar–Apr; 76(2):146–51 (Eng. Abstr.) (Pol)
[T-activin in the treatment of patients with recurrent erysipelas and concomitant eczema] Frolov VM, et al. **Vestn Dermatol Venerol** 1989;(9):47–51 (Eng. Abstr.) (Rus)
[The results of using emoxipine in true eczema] Grikurov KG, et al. **Vestn Dermatol Venerol** 1990;(4):67–9 (Eng. Abstr.) (Rus)
[Experience in the therapy of eczema patients] Shulina IV, et al. **Vestn Dermatol Venerol** 1990;(4):70–2 (Eng. Abstr.) (Rus)

ENZYMOLOGY

[The mono-oxygenase enzyme system of the liver in patients with true eczema] Ashirmetov AKh, et al. **Vestn Dermatol Venerol** 1990;(4):46–9 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

Natural history of allergic diseases in children. Aberg N,

et al. **Acta Paediatr Scand** 1990 Feb;79(2):206–11
Lead and childhood propensity to infectious and allergic disorders: is there an association? Rabinowitz MB, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):657–60
Occupational hand eczema in an industrial city. Meding B, et al. **Contact Dermatitis** 1990 Jan;22(1):13–23
Eczema of the face, scalp and neck: an epidemiological comparison by site. Goh CL. **J Dermatol** 1989 Jun; 16(3):223–6
[Clinico-epidemiologic characteristics of eczema in patients with arterial hypertension] Ivanov SV, et al. **Vestn Dermatol Venerol** 1989;(9):31–5 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Systemically induced eczema in adults. Veien NK. **Acta Derm Venereol Suppl (Stockh)** 1989;147:1–58 (12 ref.)
A case of hand eczema due to mushrooms. Korstanje MJ, et al. **Contact Dermatitis** 1990 Feb;22(2):115–6
Onchocerciasis: an unusual presentation as eczema [letter] al-Khawajah MM, et al. **Int J Dermatol** 1990 Jan–Feb; 29(1):73–4
Cutaneous lymphohistiocytic infiltrates in patients with hypogammaglobulinemia. Bentur L, et al. **J Pediatr** 1990 Jan;116(1):68–72
The glucagonoma syndrome [see comments] Price ML, et al. **J R Soc Med** 1989 Sep;82(9):553–4 Comment in: J R Soc Med 1990 Jan;83(1):60. Comment in: J R Soc Med 1990 Feb;83(2):127.
Winter's skin [editorial] **Lancet** 1990 Feb 3;335(8684):266
[Allergy to formol] Rat JP. **Allerg Immunol (Paris)** 1990 May; 22(5):196 **(Fre)**
[Pathogenesis of eczema and psoriasis] Sharapova GIa, et al. **Sov Med** 1989;(9):106–8 **(Rus)**
[The role of lipid metabolic disorders in the development of eczema and psoriasis in chronic alcoholism (clinical and experimental research)] Lashmanova AP, et al. **Vestn Dermatol Venerol** 1990;(3):54–7 (Eng. Abstr.) **(Rus)**
[The neurogenic pathogenesis of eczema] Samtsov VI. **Vestn Dermatol Venerol** 1990;(3):25–6 (Eng. Abstr.) **(Rus)**
[The relation of disorders of the blood acid–base equilibrium to immunologic and neurohumoral changes in patients with eczema] Shulipa IV, et al. **Vrach Delo** 1989 Dec;(12):81–3 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Chronic actinic dermatitis: an immunohistologic and photobiologic study. Norris PG, et al. **J Am Acad Dermatol** 1989 Nov;21(5 Pt 1):966–71
[Halo eczema and nevus cell nevi (Meyerson nevi)] Worret WI. **Hautarzt** 1990 May;41(5):262–4 (10 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

[The typological characteristics of the nervous system and the autonomic tonus of patients with true eczema] Akovbian VA, et al. **Vestn Dermatol Venerol** 1989;(12):40–3 (Eng. Abstr.) **(Rus)**

THERAPY

Complementary therapies for common conditions. Lewith G. **Practitioner** 1990 Feb 8;234(1482):123–5
[The use of active methods of treatment in the case of a child with a complicated form of generalized eczema] Kurapov EP, et al. **Anesteziol Reanimatol** 1989 Nov–Dec; (6):63–4 (Eng. Abstr.) **(Rus)**

ECZEMA, ATOPIC see **DERMATITIS, ATOPIC**

ECZEMA, CONTACT see **DERMATITIS, CONTACT**

ECZEMA HERPETICUM see **KAPOSI'S VARICELLIFORM ERUPTION**

ECZEMA VACCINATUM see **KAPOSI'S VARICELLIFORM ERUPTION**

EDATHAMIL see **EDTA**

EDEINE see under **ANTIBIOTICS**

EDEMA

see related
ANGIONEUROTIC EDEMA
BRAIN EDEMA
HYDROPS FETALIS
LARYNGEAL EDEMA
LYMPHEDEMA
MACULAR EDEMA, CYSTOID
PAPILLEDEMA
PULMONARY EDEMA

Massive labial edema in pregnancy. Morris LF, et al. **South Med J** 1990 Jul;83(7):846–8
[Premenstrual edema] Scriba PC, et al. **Dtsch Med Wochenschr** 1989 Sep 29;114(39):1503–4 **(Ger)**

BLOOD

Plasma concentration of atrial natriuretic factor in idiopathic oedema. Nakada T, et al. **Int Urol Nephrol** 1990;22(1):71–6
Transcutaneous measurement of oxygen tension [letter; comment] Mani R, et al. **J Am Acad Dermatol** 1990 Feb; 22(2 Pt 1):323–5 Comment on: J Am Acad Dermatol 1989 Feb;20(2 Pt 1):186–90. Comment on: J Am Acad Dermatol 1989 Feb;20(2 Pt 1):191–7.
Ulcerated edematous limb and transcutaneous oxygen tension [letter; comment] Pekanmäki K, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):322–3 Comment on: J Am Acad Dermatol 1989 Feb;20(2 Pt 1):191–7.

CHEMICALLY INDUCED

Arachidonic acid induced ear oedema in four strains of rats and mice: a comparative study of anti-inflammatory drugs. Bouclier M, et al. **Agents Actions** 1990 Jan;29(1–2):62–4
Pharmacologic modulation of D-49 phospholipase A2-induced paw edema in the mouse. Calhoun W, et al. **Agents Actions** 1989 Jun;27(3–4):418–21
A contraindication to injection of intravenous fluorescein. Weaver DT, et al. **Am J Ophthalmol** 1990 Apr 15; 109(4):490–1
Red man syndrome associated with amphotericin B. Ellis ME, et al. **BMJ** 1990 Jun 2;300(6737):1468
Edema associated with long-term valproate therapy. Ettinger A, et al. **Epilepsia** 1990 Mar–Apr;31(2):211–3
Dependent oedema and attenuation of postural vasoconstriction associated with nifedipine therapy for hypertension in diabetic patients. Williams SA, et al. **Eur J Clin Pharmacol** 1989;37(4):333–5
A study of phospholipase A2-induced oedema in rat paw. Cirino G, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):505–10
A predictive mouse ear-swelling model for investigating topical photoallergy. Gerberick GF, et al. **Food Chem Toxicol** 1990 May;28(5):361–8
Methadone and edema [letter] Macfadden W, et al. **J Clin Psychiatry** 1990 Jan;51(1):36–7
Brain mitochondrial swelling induced by arachidonic acid and other long chain free fatty acids. Hillered L, et al. **J Neurosci Res** 1989 Oct;24(2):247–50
Severe facial oedema and glossitis associated with mianserin [letter] Leibovitch G, et al. **Lancet** 1989 Oct 7; 2(8667):871–2
Isolation and characterization of hemorrhagic, myonecrotic and edema-inducing toxins from Bothrops insularis (jararaca ilhoa) snake venom. Selistre HS, et al. **Toxicon** 1990;28(3):261–73
[Anasarca during treatment with bromocriptine (letter)] Thomas P, et al. **Presse Med** 1989 Sep 23;18(29):1440 **(Fre)**
[Idiopathic and diuretic-induced edema] Schirmer K, et al. **Z Gesamte Inn Med** 1989 Sep 15;44(18):540–2 (Eng. Abstr.) **(Ger)**
[A case of insulin edema in diabetes mellitus] Tsuboi Y, et al. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1475–9 **(Jpn)**
[Aspirin tolerance in individuals with aspirin-induced urticaria–edematous lesions] Grzelewska-Rzymowska I, et al. **Pol Tyg Lek** 1989 Jul 10–17;44(28–29):667–9 (Eng. Abstr.) **(Pol)**

CLASSIFICATION

[The classification of postmastectomy edema of the upper extremity by a volumetric method] Pantiushenko TA, et al. **Vopr Onkol** 1990;36(6):714–7 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

The role of inflammatory mediators in airway edema and obstruction produced in guinea pigs exposed to inhaled endotoxin or cotton dusts. Gordon T. **Am J Ind Med** 1990; 17(1):107–8
Heat stroke, cardiac dysfunction and edema [letter; comment] Gaffin SL. **Chest** 1990 Jun;97(6):1503 Comment on: Chest 1989 May;95(5):1089–91.
Keratoconus with acute corneal hydrops. Valella MT. **J Am Optom Assoc** 1989 Aug;60(8):578–80
The syndrome of seronegative symmetrical synovitis with pitting edema (RS3 PE syndrome): a unique form of arthritis in the elderly? Report of 4 additional cases [see comments] Chaouat D, et al. **J Rheumatol** 1989 Sep; 16(9):1211–3 Comment in: J Rheumatol 1990 Mar;17(3):414.
RS3PE syndrome [letter; comment] Healey LA. **J Rheumatol** 1990 Mar;17(3):414 Comment on: J Rheumatol 1989 Sep;16(9):1211–3.
Remitting, seronegative, symmetrical synovitis with pitting edema—13 additional cases. Russell EB, et al. **J Rheumatol** 1990 May;17(5):633–9
Oliguria, facial oedema and severe dyspnoea. Niaudet P. **Pediatr Nephrol** 1989 Oct;3(4):385
Prenatal diagnosis of Noonan's syndrome in a female infant with spontaneous resolution of cystic hygroma and hydrops. Izquierdo L, et al. **West J Med** 1990 Apr; 152(4):418–21
[Yellow nail syndrome: description of a case and review of the associated pathology] Rotoli M, et al. **Recenti Prog Med** 1990 Mar;81(3):149–51 (Eng. Abstr.) **(Ita)**
[Clinical observations of acute low-tone sensorineural hearing loss considered as cochlear hydrops] Yamasoba T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Feb; 93(2):219–28 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Kawasaki disease complicated by gallbladder hydrops mimicking acute abdomen: a report of three cases. Hou JW, et al. **Acta Paediatr Sin** 1989 Jan–Feb;30(1):52–60
Use of hepatic vein catheterization in the evaluation of patients with anasarca. Insel JM, et al. **Am J Med Sci** 1990 Apr;299(4):245–9
Recurrent facial swelling and chest tightness [clinical conference] Sue MA, et al. **Ann Allergy** 1990 Jul; 65(1):18–21
Facial swelling and asymmetry in children: systematic diagnosis and review. Sigal MJ, et al. **Can Dent Assoc J** 1989 Oct;55(10):799–805 (18 ref.)
Acute hydrops of the gallbladder. Kanitkar MR, et al. **Indian Pediatr** 1990 Feb;27(2):197–9
Fountain's syndrome: mental retardation, sensorineural deafness, skeletal abnormalities, and coarse face with full lips. Fryns JP. **J Med Genet** 1989 Nov;26(11):722–4
Ultrasonography in the evaluation of wrist swelling in children. Goldenstein C, et al. **J Rheumatol** 1989 Aug; 16(8):1079–87
Hydrops of the gallbladder [letter] Ghosh BC, et al. **Milit Med** 1990 Aug;155(8):A6
Comparative study of the effect of CV-6209, a specific PAF-antagonist, on rat paw edema caused by different phlogogen agents. Merlos M, et al. **Pharmacology** 1990; 40(4):211–7
[Electrocochleography possibilities in the differential diagnosis of hydrops and neural hearing loss] Marangos N, et al. **HNO** 1990 Feb;38(2):56–8 (Eng. Abstr.) **(Ger)**
[Mucoviscidosis with a rare course in an infant] Banaszak P, et al. **Pediatr Pol** 1989 Aug–Sep;64(8–9):568–70 **(Pol)**
[Ultrasonic examination of bile density and gallbladder walls in various forms of acute cholecystitis] Vasil'ev Ve, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):66–9 **(Rus)**
[A method of evaluating the clinical course of edematous exophthalmos and pseudotumor of the orbit] Brovkina AF, et al. **Vestn Oftalmol** 1990 Mar–Apr;106(2):16–9 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Edema formation and cellular alterations following spinal cord injury in the rat and their modification with p-chlorophenylalanine. Sharma HS, et al. **Acta Neuropathol (Berl)** 1990;79(6):604–10
Inhibitory effect of high dose ascorbic acid on inflammatory edema. Spillert CR, et al. **Agents Actions** 1989 Jun; 27(3–4):401–2
Resolution of atypical chest pain during treatment for idiopathic orthostatic edema [letter] Leskowitz SC, et al. **Am J Gastroenterol** 1990 May;85(5):621–2
Use of ethacrynic acid in refractory edema. Floyd WL, et al. **Am J Med Sci** 1967 Aug;254(2):129–35
Systemic interleukin I administration suppresses arachidonic acid-induced ear oedema in the mouse. Bäck O, et al. **Br J Dermatol** 1989 Dec;121(6):701–7
The control of post-operative oedema: a clinical controlled trial of high-dosage oral chymotrypsin ("Avazyme"). Saad MN, et al. **Br J Plast Surg** 1966 Jul;19(3):245–50
The effects of two nonsteroidal antiinflammatory drugs on limb swelling, joint stiffness, and bone torsional strength following fracture in a rabbit model. More RC, et al. **Clin Orthop** 1989 Oct;(247):306–12
Heparin, a potent releasing agent of extracellular superoxide dismutase (EC-SOD C), suppresses ischaemic paw oedema in mice. Oyanagui Y, et al. **Free Radic Res Commun** 1990; 9(2):87–99
Pharmacological modulation of 2-methyl-carbamate-PAF induced rat paw oedema. Castro-Faria-Neto HC, et al. **J Pharm Pharmacol** 1990 Mar;42(3):203–4
Treatment of idiopathic edema with decoction of radix Aucklandiae for promoting flow of QI—analysis of 50 cases. Li H, et al. **J Tradit Chin Med** 1990 Jun;10(2):114–5
[Effect of KP-136 on allergic paw edema in the rat] Hiyama Y, et al. **Nippon Yakurigaku Zasshi** 1990 Mar;95(3):83–90 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Diamine oxidase, urticaria and intestinal oedema [editorial; comment] MacDonald BR, et al. **Clin Exp Allergy** 1990 Jul;20(4):341–2 Comment on: Clin Exp Allergy 1990 Jul;20(4):373–6.

EPIDEMIOLOGY

[A controlled study on edema in elderly inpatients] Asai K. **Nippon Ronen Igakkai Zasshi** 1990 Mar;27(2):123–8 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Lower limb oedema after arterial reconstructive surgery. Influence of preoperative ischaemia, type of reconstruction and postoperative outcome. Persson NH, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):259–66
Massive ovarian edema associated with polycystic ovary. Sageshima M, et al. **Acta Pathol Jpn** 1990 Jan;40(1):73–8
Spinal cord edema and changes in tissue content of Na+, K+, and Mg2+ after impact trauma in rats. Demediuk

P, et al. **Adv Neurol** 1990;52:225–32

Marijuana uvula [letter] Haddad LM. **Am J Emerg Med** 1990 Mar;8(2):179

Vitamin E deficiency and peripheral edema [letter] Granot E, et al. **Ann Intern Med** 1989 Nov 15;111(10):859

Bilateral endolymphatic hydrops in Menière's disease: review of temporal bone autopsies. Yazawa Y, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):524–8 (52 ref.)

Bungy jumping [letter] Hanbury PH. **Aust N Z J Ophthalmol** 1990 May;18(2):229

Incarcerated sigmoid bottle. Miller BJ, et al. **Aust N Z J Surg** 1990 Sep;60(9):729–31

Effect of nutritional copper deficiency on carrageenin edema in the rat. A quantitative study. Kishore V, et al. **Biol Trace Elem Res** 1989–90 Winter;23:97–107

The salvaged blood syndrome: a sequel to mechanochemical activation of platelets and leukocytes? Bull BS, et al. **Blood Cells** 1990;16(1):5–20; discussion 20–3

The effect of pressure gradient and thermolactyl control gloves in arthritic patients with swollen hands. Oosterveld FG, et al. **Br J Rheumatol** 1990 Jun;29(3):197–200

Idiopathic scrotal oedema. Essenhigh DM, et al. **Br J Surg** 1966 May;53(5):419–20

Do connective tissue components induce plasma activation in vivo? Baccaro MR, et al. **Braz J Med Biol Res** 1989; 22(4):485–9

Do lymphocytes play a pro-inflammatory role in any pharmacological type of rat paw edema? Engrácia-de-Moraes JR, et al. **Braz J Med Biol Res** 1989; 22(2):179–87

High-grade B-cell lymphoma presenting as polyserosal disease. Diagnosis by flow cytometry. Moreb J, et al. **Cancer** 1989 Dec 1;64(11):2254–8

Mesenteric oxygen metabolism, ileal mucosal hydrogen ion concentration, and tissue edema after crystalloid or colloid resuscitation in porcine endotoxic shock: comparison of Ringer's lactate and 6% hetastarch. Baum TD, et al. **Circ Shock** 1990 Apr;30(4):385–97

Lupus erythematosus profundus [letter] Ridley CM. **Clin Exp Dermatol** 1989 Jul;14(4):333

Pathogenesis of edematous states. Bichet DG. **Clin Invest Med** 1989 Oct;12(5):316–22 (48 ref.)

Chronic lip edema with particular reference to the Melkersson-Rosenthal syndrome (MRS). Fisher AA. **Cutis** 1990 Mar;45(3):144–6

A review of blepharochalasis and other causes of the lax, wrinkled eyelid. Held JL, et al. **Cutis** 1990 Feb;45(2):91–4 (34 ref.)

An unusual swelling in the groin. Wiese H, et al. **Eur J Radiol** 1990 Mar–Apr;10(2):156–8

Post-traumatic oedema of the foot after tibial fracture. Pun WK, et al. **Injury** 1989 Jul;20(4):232–5

Mechanisms for edema formation in normal pregnancy and preeclampsia evaluated by skin capillary dynamics. Rosén L, et al. **Int J Microcirc Clin Exp** 1990 Aug;9(3):257–66

Contact lens-induced edema in vitro. Ion transport and metabolic considerations. Huff JW. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1288–93

Solid facial edema as a manifestation of acne. Camacho-Martinez F, et al. **J Am Acad Dermatol** 1990 Jan;22(1):129–30

Accumulation of hyaluronan (hyaluronic acid) in myocardial interstitial tissue parallels development of transplantation edema in heart allografts in rats. Hällgren R, et al. **J Clin Invest** 1990 Mar;85(3):668–73

A rare "tumor" of the wrist [letter] Siegel IM. **J Hand Surg [Am]** 1989 Nov;14(6):1035

A hazard of craniotomy in the sitting position: the posterior compartment syndrome of the thigh. Case report. Poppi M, et al. **J Neurosurg** 1989 Oct;71(4):618–9

Edema development and ion changes in rat spinal cord after impact trauma: injury dose-response studies. Lemke M, et al. **J Neurotrauma** 1990 Spring;7(1):41–54

Chronic, painful unilateral leg swelling from vasculitis [letter; comment] Palmer DG. **J Rheumatol** 1989 Aug;16(8):1164–5 Comment on: J Rheumatol 1988 Jun;15(6):1022–5.

Edema after femoropopliteal bypass surgery: lymphatic and venous theories of causation. AbuRahma AF, et al. **J Vasc Surg** 1990 Mar;11(3):461–7

The relationship between blood flow, development of edema and leukocyte accumulation in post-ischemic rat skeletal muscle. Sirsjö A, et al. **Microcirc Endothelium Lymphatics** 1990 Feb;6(1):21–34

Non-infective orbital complications resulting from natural defects of the antral roof. Case report. Whittet HB, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(3):196–201

Failure to thrive and anasarca in a young infant. Janner D. **Pediatr Infect Dis J** 1990 Jul;9(7):519, 531–2

Progressive hypervolemia despite hypoproteinemia and massive edema formation in rats with nephrotoxic serum nephritis. Fujihara CK, et al. **Renal Physiol Biochem** 1990 Jul–Aug;13(4):206–12

The effect of 10 and 20 Gy single dose irradiation on the esophageal mucosa of the rabbit. An electron microscopic study. Hakansson CH, et al. **Scanning Microsc** 1989 Dec; 3(4):1169–76

Acute and delayed effects of tourniquet ischemia on subfascial pressures and tissue gas tensions within muscles of the subhuman primate limb. Price GJ, et al. **Surg Forum** 1978;29:612–5

Genital swelling as a surgical complication of continuous ambulatory peritoneal dialysis. Abraham G, et al. **Surg Gynecol Obstet** 1990 Apr;170(4):306–8

[Role of the renin-angiotensin-aldosterone system in the pathogenesis of edema formation in chronic obstructive pulmonary disease] Zeng GB, et al. **Chung Hua Nei Ko Tsa Chih** 1989 May;28(5):283–5, 314–5 (Eng. Abstr.) (Chi)

[Oligoarthritis B27 with edema and general symptoms: an atypical form of spondylarthritis with late onset] Dubost JJ, et al. **Ann Med Interne (Paris)** 1989;140(7):566–70 (13 ref.) (Eng. Abstr.) (Fre)

[Comparative study of efficacy of focal photocoagulation in diabetic macular edema according to the wave length used] Fernandez-Vigo J, et al. **J Fr Ophtalmol** 1989;12(11):785–9 (Eng. Abstr.) (Fre)

[Long-term follow-up and etiologic factors in edematous forms of central retinal vein obstruction] Saraux H, et al. **J Fr Ophtalmol** 1989;12(5):339–41 (Eng. Abstr.) (Fre)

[Papilledema and macular edema as first symptom of non-Hodgkin's lymphoma] Daxecker F, et al. **Ophthalmologica** 1990;200(3):164–6 (Eng. Abstr.) (Ger)

[Eyelid and ankle edema (clinical conference)] Meyer-Lehnert H, et al. **Schweiz Rundsch Med Prax** 1990 Mar 6;79(10):296–300 (Eng. Abstr.) (Ger)

[Idiopathic edema in the female] Herpertz U. **Z Lymphol** 1989 Dec;13(2):65–70 (72 ref.) (Eng. Abstr.) (Ger)

[Idiopathic and diuretic-induced edema] Krahl M, et al. **Z Lymphol** 1989 Dec;13(2):71–3 (Eng. Abstr.) (Ger)

[Post-vaccination reactions to diploid rabies vaccine] Majchrowicz H. **Przegl Epidemiol** 1989;43(3):259–62 (Eng. Abstr.) (Pol)

[Snake bites by Bothrops moojeni: correlation of the clinical picture with the snake size] Kouyoumdjian JA, et al. **Rev Inst Med Trop Sao Paulo** 1989 Mar–Apr;31(2):84–90 (Eng. Abstr.) (Por)

[The venous circle. Cervical reflux following functional neck evacuation] Bonsetti GL, et al. **Acta Otorrinolaringol Esp** 1988 May–Jun;39(3):175–8 (Eng. Abstr.) (Spa)

[Compression of the femoral vein caused by a synovial cyst of the hip] Duato Jané A, et al. **Angiologia** 1989 Jul–Aug; 41(4):156–60 (Eng. Abstr.) (Spa)

[Metastatic Crohn disease of the scrotum] Alonso ML, et al. **Med Cutan Ibero Lat Am** 1989;17(6):391–4 (Eng. Abstr.) (Spa)

GENETICS

Familial myoedema, muscular hypertrophy and stiffness. Sadeh M, et al. **Acta Neurol Scand** 1990 Mar;81(3):201–4

HISTORY

From dropsy to Bright's disease to end-stage renal disease. Peitzman SJ. **Milbank Q** 1989;67 Suppl 1:16–32

IMMUNOLOGY

Immunoglobulin E and circulating immune complexes in endolymphatic hydrops. Hsu L, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):535–8 (24 ref.)

METABOLISM

The influence of histamine and PGE2-induced hyperaemia and oedema on respiratory metabolism in normal human forearm skin. Carnochan FM, et al. **Agents Actions** 1990 Mar;29(3–4):292–8

Superoxide dismutase reduces permeability and edema induced by hypertension in rats. Zhang XM, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H497–503

Effect of posture on plasma atrial natriuretic hormone and renal function during salt loading in patients with and without postural (idiopathic) edema. Anderson GH Jr, et al. **J Clin Endocrinol Metab** 1990 Jul;71(1):243–6

Acute edematous pancreatitis impairs pancreatic secretion in rats. Murayama KM, et al. **Surgery** 1990 Mar; 107(3):302–10

NURSING

[Nursing care in ovarian hyperstimulation syndrome] Huang YY. **Chung Hua Hu Li Tsa Chih** 1989 Aug;24(8):468–9 (Chi)

PATHOLOGY

Ultrastructure of the vestibular sensory organs in delayed endolymphatic hydrops. Yaku Y, et al. **Am J Otolaryngol** 1989 Sep-Oct;10(5):336–41

Comparative studies of the healing process after recurrent edematous and hemorrhagic pancreatitis in rats. Satake K, et al. **Gastroenterol Jpn** 1990 Jun;25(3):376–82

Alpha 2-macroglobulin and fibrinogen modulate inflammatory edema in man. van Gool J, et al. **Inflammation** 1990 Jun;14(3):275–83

Edematous changes in the central nervous system of zitter rats with genetic spongiform encephalopathy. Gomi H, et al. **J Neuropathol Exp Neurol** 1990 May;49(3):250–9

Traumatic chemosis. **Practitioner** 1989 Feb 8;233(1462):179

[Morphological features of experimental transient endolymphatic hydrops] Pomukhina AN, et al. **Vestn Otorinolaringol** 1989 Sep-Oct;(5):30–5 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Is a decrease in plasma oncotic pressure enough to explain the edema of pregnancy? Valenzuela GJ. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1624–7

Physiological features of edematous dogs unresponsive to atrial natriuretic peptide. Maher E, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):F1490–6

Experimental endolymphatic hydrops: are cochlear and vestibular symptoms caused by increased endolymphatic pressure? Böhmer A, et al. **Ann Otol Rhinol Laryngol** 1990 Jun;99(6 Pt 1):470–6

Quantification of the relation between electrophysiologic and morphologic changes in experimental endolymphatic hydrops. Klis SF, et al. **Ann Otol Rhinol Laryngol** 1990 Jul;99(7 Pt 1):566–70

Atrial natriuretic factor in edematous disorders. Cody RJ. **Annu Rev Med** 1990;41:377–82 (10 ref.)

Hydrostatic and oncotic determinants of microvascular fluid balance in normal canine joints. Simkin PA, et al. **Arthritis Rheum** 1990 Jan;33(1):80–6

Physiological changes in the sciatic nerve endoneurium of lead-intoxicated rats: a model of endoneurial homeostasis. Weerasuriya A, et al. **Brain Res** 1990 May 28;517(1–2):1–6

Mucosal oedema and airway hyperreactivity. Bucca C, et al. **Eur Respir J Suppl** 1989 Jun;6:520s–522s (17 ref.)

Distortion products in early stage experimental hydrops in the guinea pig. Horner K, et al. **Hear Res** 1989 Dec; 43(1):71–9

Alterations of CAP audiogram by increased endolymphatic pressure and its relation to hydrops. Horner KC, et al. **Hear Res** 1990 Apr;45(1–2):145–50

Microvascular permeability, venous stasis and oedema. Michel CC. **Int Angiol** 1989 Oct–Dec;8(4 Suppl):9–13 (12 ref.)

Microvascular effects and oedema formation of felodipine in man. Gustafsson D, et al. **J Hypertens Suppl** 1989 Sep; 7(4):S161–7; discussion S168

Kappa Delta Award paper. Tissue fluid pressures: from basic research tools to clinical applications. Hargens AR, et al. **J Orthop Res** 1989;7(6):902–9 (47 ref.)

Effect of centrally administered prostaglandin D2 and some prostaglandin synthesis inhibitors on carrageenan-induced paw oedema in rats. Bhattacharya SK, et al. **J Pharm Pharmacol** 1989 Aug;41(8):569–71

Electrophysiological studies of the eye, peripheral nerves and muscles in epidemic dropsy. Sachdev HP, et al. **J Trop Med Hyg** 1989 Dec;92(6):412–5

Assessment of vascular permeability increase in the mouse by dye leakage during paw edema. Qu XF, et al. **Jpn J Pharmacol** 1990 Mar;52(3):500–3

Experimental neoplastic spinal cord compression: effect of ketamine and MK-801 on edema and prostaglandins. Siegal T, et al. **Neurosurgery** 1990 Jun;26(6):963–6

Pathophysiology of vasopressin in edematous disorders. Schrier RW, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Dec 20;65(12):1311–27 (70 ref.)

Endolymphatic hydrops [letter] Allen GW. **Otolaryngol Head Neck Surg** 1990 Feb;102(2):199

Research design considerations in studying edema. Mohr TM. **Phys Ther** 1990 Sep;70(9):583–6

The relationship between 'normal' fluid retention in women and idiopathic oedema. Denning DW, et al. **Postgrad Med J** 1990 May;66(775):363–6

Role of the blood-nerve barrier in experimental nerve edema. Mizisin AP, et al. **Toxicol Pathol** 1990;18(1 Pt 2):170–85 (93 ref.)

[Experimental endolymphatic hydrops and its related morphological and functional changes in guinea pigs] Ye Y. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1990 Apr;12(2):84–9 (Eng. Abstr.) (Chi)

[Results of trapezoid rotation test in guinea pigs with unilateral endolymphatic hydrops] Kamimura T. **Nippon Jibiinkoka Gakkai Kaiho** 1990 May;93(5):731–9 (Eng. Abstr.) (Jpn)

PREVENTION & CONTROL

The effect of retinoids on the skin reaction and swelling seen 7 days after adjuvant injection in the rat paw. Cashin CH, et al. **Agents Actions** 1990 Jan;29(1–2):59–61

Capillary filtration and ankle edema in patients with venous hypertension treated with TTFCA. Belcaro GV, et al. **Angiology** 1990 Jan;41(1):12–8

Ruthenium red selectively inhibits oedema formation and increased blood flow induced by capsaicin in rabbit skin. Buckley TL, et al. **Br J Pharmacol** 1990 Jan;99(1):7–8

Prevention of nerve edema and increased blood-nerve barrier permeability-surface area product in galactosemic rats by aldose reductase or thromboxane synthetase inhibitors. Wadhwani KC, et al. **Diabetes** 1989 Nov;38(11):1469–77

On the edema-preventing effect of the calf muscle pump. Stick C, et al. **Eur J Appl Physiol** 1989;59(1–2):39–47

Suppression of carrageenan-induced hyperalgesia, hyperthermia and edema by a bradykinin antagonist. Costello AH, et al. **Eur J Pharmacol** 1989 Nov 21; 171(2–3):259–63

The anti-oedematous efficacy of oxindanac equals that of paracetamol in acute postoperative inflammation; are weak cyclooxygenase inhibitors more effective than strong inhibitors? Skoglund LA, et al. **Int J Clin Pharmacol Res** 1989;9(6):371–5

Scrotal surgery: a reliable method for the prevention of

postoperative hematoma and edema. Oesterling JE. **J Urol** 1990 Jun;143(6):1201–2

Copper salicylate and copper phenylbutazone as topically applied anti–inflammatory agents in the rat and horse. Auer DE, et al. **J Vet Pharmacol Ther** 1990 Mar;13(1):67–75

Steroids in rhinoplasty. Griffies WS, et al. **Laryngoscope** 1989 Nov;99(11):1161–4

Influence of high voltage pulsed direct current on edema formation following impact injury. Bettany JA, et al. **Phys Ther** 1990 Apr;70(4):219–24

Helium–neon laser therapy in the prevention of postoperative swelling and pain after wisdom tooth extraction. Taube S, et al. **Proc Finn Dent Soc** 1990;86(1):23–7

Decreased inflammatory responsiveness of hypophysectomized rats to heat is reversed by a corticotropin–releasing factor (CRF) antagonist. Wei ET, et al. **Regul Pept** 1990 Mar 5;27(3):317–23

[Inhibitory effects of clonidine on edema formation after thermal injury in mice and rats] Jiang DJ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):540–2 (Eng. Abstr.) **(Chi)**

[The effects of leg elevation to reduce leg edema resulting from prolonged standing] Liaw MY, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jun;88(6):630–4, 628 (Eng. Abstr.) **(Chi)**

[Hemodilution and anti–edema effect: experimental study in the rabbit] Audibert G, et al. **Ann Fr Anesth Reanim** 1989; 8 Suppl:R117 **(Fre)**

[Edema inhibiting effect of indenochromene derivatives from natural sources] Rázga Z, et al. **Acta Pharm Hung** 1990 Jan;60(1):1–6 (Eng. Abstr.) **(Hun)**

RADIOGRAPHY

Radiology of ovarian varices. Kennedy A, et al. **Br J Hosp Med** 1990 Jul;44(1):38–43 (20 ref.)

CT of swollen legs. Vaughan BF. **Clin Radiol** 1990 Jan; 41(1):24–30

The value of computed tomography in the diagnosis of soft–tissue swellings of the hand. Adani R, et al. **J Hand Surg [Br]** 1990 May;15(2):229–32

Subperiosteal orbital masses in children with orbital cellulitis: time for a reevaluation? Catalano RA, et al. **J Pediatr Ophthalmol Strabismus** 1990 May–Jun; 27(3):141–2

RADIONUCLIDE IMAGING

Investigation of the swollen limb with isotope lymphography. Proby CM, et al. **Br J Dermatol** 1990 Jul;123(1):29–37

RADIOTHERAPY

Ultraviolet radiation suppresses mouse–ear edema induced by topical application of arachidonic acid. Danno K, et al. **Arch Dermatol Res** 1990;282(1):42–6

REHABILITATION

The edematous hand. Sorenson MK. **Phys Ther** 1989 Dec; 69(12):1059–64 (26 ref.)

SURGERY

Surgical treatment of chemotic conjunctival prolapse following vitreoretinal surgery. Malone TJ, et al. **Arch Ophthalmol** 1990 Jun;108(6):890–1

Pelvic congestion syndrome and ligation of ovarian veins [letter] Schraibman IG. **Br J Hosp Med** 1990 Jul;44(1):14

[Transhepatic laparoscopic puncture in hydrops of the gallbladder with drainage of the subhepatic space] Ivanov S. **Khirurgiia (Sofiia)** 1989;42(3):103–6 (Eng. Abstr.) **(Bul)**

[Functional consequences of focal photocoagulation in diabetic macular edema] Fernandez–Vigo J, et al. **J Fr Ophtalmol** 1989;12(10):691–5 (Eng. Abstr.) **(Fre)**

THERAPY

High–voltage pulsed direct current: effect on edema formation after hyperflexion injury. Bettany JA, et al. **Arch Phys Med Rehabil** 1990 Aug;71(9):677–81

Compressive centripetal wrapping technic for reduction of edema. Cain HD, et al. **Arch Phys Med Rehabil** 1967 Aug; 48(8):420–3

Efficacy of light support pantyhose. Derman RJ, et al. **J Reprod Med** 1989 Dec;34(12):946–9

A comparison of bed rest and immersion for treating the edema of pregnancy. Katz VL, et al. **Obstet Gynecol** 1990 Feb;75(2):147–51

Assessment of visual–field changes before and after focal photocoagulation for clinically significant diabetic macular edema. Sims LM, et al. **Ophthalmologica** 1990;200(3):133–41

Reduction of chronic posttraumatic hand edema: a comparison of high voltage pulsed current, intermittent pneumatic compression, and placebo treatments. Griffin JW, et al. **Phys Ther** 1990 May;70(5):279–86

Obstructive jaundice in Kawasaki's disease. Luzzatto C, et al. **Z Kinderchir** 1990 Feb;45(1):50–1

[Benelux Society of Phlebology. 3 June 1989. Physical treatment of venous edema] **Phlebologie** 1990 Jan–Mar; 43(1):49–114 **(Fre)**

[Physical treatment of venous edema. Physiopathological review] Schoevaerdts JC. **Phlebologie** 1990 Jan–Mar; 43(1):51–4; discussion 72–6 (0 ref.) **(Fre)**

[Treatment of edema of the lower extremities after femoro–popliteal shunting] Ovchinnikov VA, et al. **Khirurgiia (Mosk)** 1990 May;(5):86–9 (Eng. Abstr.) **(Rus)**

[Immunologic indices of the blood and interstitial fluid in the evaluation of the treatment of secondary edemas of the upper extremities] Kuz'mina EG, et al. **Med Radiol (Mosk)** 1990 May;35(5):18–21 (Eng. Abstr.) **(Rus)**

[Use of isolated ultrafiltration in nephrotic edema resistant to diuretics] Klepikov PV, et al. **Ter Arkh** 1989;61(6):94–6 (Eng. Abstr.) **(Rus)**

[Justification for the use of the vasculator in the treatment (rehabilitation) of post–traumatic edema of the lower extremities] Radulović R, et al. **Med Arh** 1985;39(5):191–6 (Eng. Abstr.) **(Scr)**

VETERINARY

Hydrometra in the rabbit. Morrell JM. **Vet Rec** 1989 Sep 16;125(12):325

Observations on swollen head syndrome in broiler and broiler breeder chickens. Pattison M, et al. **Vet Rec** 1989 Aug 26; 125(9):229–31

[Verification of the protective effect of a toxoid vaccine against edema disease of weaned piglets in an infection model] Awad–Masalmeh M, et al. **DTW Dtsch Tierarztl Wochenschr** 1989 Sep;96(8):419–21 (Eng. Abstr.) **(Ger)**

EDEMA, CARDIAC see under **HEART FAILURE, CONGESTIVE**

EDEMA–PROTEINURIA–HYPERTENSION GESTOSIS see **GESTOSIS, EPH**

EDENTATA

Survey for leprosy in nine–banded armadillos (Dasypus novemcinctus) from the southeastern United States. Howerth EW, et al. **J Wildl Dis** 1990 Jan;26(1):112–5

The pathology of the eye in armadillos experimentally infected with Mycobacterium leprae. Brandt F, et al. **Lepr Rev** 1990 Jun;61(2):112–31 (18 ref.)

Severity of leprosy eye lesions in armadillos infected with Mycobacterium leprae. Brandt F, et al. **Lepr Rev** 1990 Jun; 61(2):188–92

Antibodies to the phenolic glycolipid–1 antigen for epidemiologic investigations of enzootic leprosy in armadillos (Dasypus novemcinctus). Truman RW, et al. **Lepr Rev** 1990 Mar;61(1):19–24

ANATOMY & HISTOLOGY

Ganglion cell size and distribution in the retina of the two–toed sloth (Choloepus didactylus L.). Andrade–da–Costa BL, et al. **Braz J Med Biol Res** 1989; 22(2):233–6

Ultrastructural study of crystalloids in Sertoli cells of the three–toed sloth (Bradypus tridactylus). Toyama Y, et al. **Cell Tissue Res** 1990 Mar;259(3):599–602

METABOLISM

Conformational free energy of armadillo metmyoglobin. Kelly L, et al. **Int J Pept Protein Res** 1990 Mar;35(3):235–40

MICROBIOLOGY

[Mycobacteria isolated from armadillos Dasypus novemcinctus inoculated with mycobacterium leprae] Coelho AA, et al. **Hansenol Int** 1988 Dec;13(2):42–6 (Eng. Abstr.) **(Por)**

[Interrelatio of acari Ixodidae and hosts of Edentata of the Serra da Canastra, Minas Gerais, Brazil] Botelho JR, et al. **Mem Inst Oswaldo Cruz** 1990 Jan–Mar;84(1):61–4 (Eng. Abstr.) **(Por)**

PARASITOLOGY

Experimental infection of the nine–banded armadillo (Dasypus novemcinctus) with Schistosoma mansoni (Kenyan strain). Smith JH, et al. **Am J Trop Med Hyg** 1988 May;38(3):499–507

Coccidia of Brazilian mammals: Eimeria corticulata n. sp. (Apicomplexa: Eimeriidae) from the anteater Tamandua tetradactyla (Xenarthra: Myrmecophagidae) and Eimeria zygodontomyis n. sp. from the cane mouse Zygodontomys lasiurus (Rodentia: Cricetidae). Lainson R, et al. **J Protozool** 1990 Jan–Feb;37(1):51–4

PHYSIOLOGY

The effects of posture changes on blood pressure and heart rate of anesthetized and reserpinized sloths. Duarte DP, et al. **Comp Biochem Physiol [A]** 1989;94(1):159–65

EDETATES see **EDTA**

EDROPHONIUM

Pharmacokinetics and pharmacodynamics of edrophonium in elderly surgical patients. Matteo RS, et al. **Anesth Analg** 1990 Oct;71(4):334–9

Diagnosis of myasthenia gravis in the 1990s. Phillips LH 2d, et al. **Semin Neurol** 1990 Mar;10(1):62–9 (49 ref.)

ADVERSE EFFECTS

Oculogyric crisis after the Tensilon test. Nucci P, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(4):384–5

DIAGNOSTIC USE

Intraesophageal balloon distention versus drug provocation in the evaluation of noncardiac chest pain. Deschner WK, et al. **Am J Gastroenterol** 1990 Aug;85(8):938–43

Edrophonium responsiveness not necessarily diagnostic of myasthenia gravis. Oh SJ, et al. **Muscle Nerve** 1990 Mar; 13(3):187–91

[Questionable usefulness of the edrophonium test in the diagnosis of non–cardiac retrosternal pain] Apollonio G, et al. **Schweiz Med Wochenschr** 1990 Jun 2;120(22):830–2 (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Atracurium recovery: prediction of safe reversal times with edrophonium. Cashman JN, et al. **Anaesthesia** 1989 Oct; 44(10):805–7

Carbaryl poisoning and edrophonium: electrophysiologic changes. Robinson LR. **Arch Phys Med Rehabil** 1990 Jan; 71(1):60–2

Edrophonium antagonism of atracurium during enflurane anaesthesia. Gill SS, et al. **Br J Anaesth** 1990 Mar; 64(3):300–5

Edrophonium priming for antagonism of atracurium neuromuscular blockade. Szalados JE, et al. **Can J Anaesth** 1990 Mar;37(2):197–201

Repetitive stimulation in myasthenia gravis: decrementing response revealed by anticholinesterase drugs. Scoppetta C, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb; 75(2):122–4

[Comparison of the antagonistic effects of neostigmine and edrophonium on neuromuscular block induced by vecuronium in the diaphragm and thumb adductor] Lebrault C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R128 **(Fre)**

[The effect of neostigmine and edrophonium on the MEPP frequency] Amaki Y, et al. **Masui** 1989 Jun;38(6):760–6 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Reversal of profound paralysis: use of large doses of edrophonium to antagonize vecuronium and pancuronium induced neuromuscular blockade. Power SJ, et al. **Acta Anaesthesiol Scand** 1989 Aug;33(6):478–81

Pseudo one–and–a–half syndrome with ocular myasthenia. Davis TL, et al. **Neurology** 1989 Nov;39(11):1553

Comparison of Tensilon and antivenom for the treatment of cobra–bite paralysis. Watt G, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):570–3

EDROPHONIUM CHLORIDE see **EDROPHONIUM**

EDTA

Severe nephrosis in older male rats given calcium disodium edetate. Reuber MD. **Arch Environ Health** 1967 Aug; 15(2):141–6

Iron(II)–ethylenediaminetetraacetic acid catalyzed cleavage of DNA is highly specific for duplex DNA [published erratum appears in Biochemistry 1990 May 29;29(21):5220] Jezewska MJ, et al. **Biochemistry** 1989 Jul 25;28(15):6161–4

The interference of EDTA in searching for heat–stable low–Mr inhibitors of protein kinases [comment] Zevgolis VG, et al. **Eur J Biochem** 1990 Feb 22;188(1):203–4 Comment on: Eur J Biochem 1988 Nov 15;177(3):657–64.

Kinetics and mechanism of electron transfer between meso–tetra sulphonated phenyl porphyrin iron(III)–apomyoglobin and Fe(EDTA)2– complexes. Tyagi SC. **Indian J Biochem Biophys** 1989 Aug; 26(4):209–12

Physico–chemical study of the radiopharmaceuticals 99mTc–DMSA, 99mTc–EDTA and 99mTc–DTPA interaction with plasmatic proteins. Garcia Domenech R, et al. **Int J Rad Appl Instrum [A]** 1989;40(6):536–8

Comparison of osmium/sonication and EDTA/sonication microdissection techniques in exposing the adepithelial basal lamina surface of developing rat colon. McCarthy KJ, et al. **J Electron Microsc Tech** 1990 Apr;14(4):367–72

A new radiochemical method to determine the stability constants of metal chelates attached to a protein. Subramanian KM, et al. **J Nucl Med** 1990 Apr;31(4):480–8

ADMINISTRATION & DOSAGE

Drug–induced inhibition of proteoglycanase activity in the Hulth–Telhag model. Ishizue KK, et al. **J Orthop Res** 1989; 7(6):806–11

[Chemical burns of the eyes. I. Conservative treatment] Gierek–Łapińska A, et al. **Klin Oczna** 1989 Feb–Mar; 91(2–3):55–6 (Eng. Abstr.) **(Pol)**

[A combined method for treating the neurological manifestations of lumbar osteochondrosis with a low–frequency magnetic field and the vacuum phonophoresis of hydrocortisone and trilon B] Garber IM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):61–2 **(Rus)**

ADVERSE EFFECTS

EDTA induced pseudothrombocytopenia: a misleading artifact causing potentially dangerous clinical errors [letter] Barracchia A, et al. **Haematologica (Pavia)** 1989 May–Jun; 74(3):332–3

[The risk of EDTA treatment of atherosclerosis (letter)] Hopp F. **Ugeskr Laeger** 1990 Jun 11;152(24):1757 **(Dan)**

ANALYSIS

Photochemical transformation in aqueous solution and possible environmental fate of ethylenediaminetetraacetic acid (EDTA). Frank R, et al. **Ecotoxicol Environ Safety** 1990 Feb;19(1):55–63

BLOOD

51Cr-EDTA plasma clearance in severe renal failure determined by one plasma sample. Kamper AL, et al. **Scand J Clin Lab Invest** 1989 Oct;49(6):555–9

CHEMICAL SYNTHESIS

On the dissociation constants of BAPTA-type calcium buffers. Pethig R, et al. **Cell Calcium** 1989 Oct;10(7):491–8

DIAGNOSTIC USE

Tannic acid as a marker for membrane sidedness of human red cell vesicles. Romero PJ, et al. **Acta Cient Venez** 1989; 40(2):107–12

[14C]urea and 58Co-EDTA as reference indicators in hepatic multiple indicator dilution studies. Pang KS, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):G32–40

The role of the gut in migraine: the oral 51-Cr EDTA test in recurrent abdominal pain. Amery WK, et al. **Cephalalgia** 1989 Sep;9(3):227–9

Radioactive metal complexes with affinity for tumors. II. Biodistribution of radioactivity in cellular and subcellular fractions of tumor tissues. Karube Y, et al. **Chem Pharm Bull (Tokyo)** 1989 Jul;37(7):1874–6

A comparison of 131I-labeled antibodies, 2-deoxy-2-[18F]fluoro-D-glucose and 68Ga-EDTA in the imaging of human tumor xenografts in nude mice. Brownell AL, et al. **Int J Rad Appl Instrum [B]** 1990; 17(3):281–6

Measurement of renal function with iohexol. A comparison of iohexol, 99mTc-DTPA, and 51Cr-EDTA clearance. Effersöe H, et al. **Invest Radiol** 1990 Jul;25(7):778–82

Using unstimulated urinary lead excretion to assess the need for chelation in the treatment of lead poisoning. Berger OG, et al. **J Pediatr** 1990 Jan;116(1):46–51

[51Cr]EDTA intestinal permeability in children with cow's milk intolerance. Schrander JJ, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):189–92

Value of the diagnostic sodium calcium edetate mobilization test as a criterion of lead absorption. Lahaye D, et al. **J Soc Occup Med** 1989 Winter;39(4):136–40

[Evaluation of intestinal permeability in ankylosing spondylarthritis with a test using Cr-EDTA] Wendling D, et al. **Rev Rhum Mal Osteoartic** 1990 Jan;57(1):29–32 **(Fre)**

METABOLISM

Albumin and Cr-EDTA uptake by systemic arteries, veins, and pulmonary artery of rabbit. Lever MJ, et al. **Arteriosclerosis** 1990 Jul–Aug;10(4):551–8

Superoxide dismutase and Fenton chemistry. Reaction of ferric-EDTA complex and ferric-bipyridyl complex with hydrogen peroxide without the apparent formation of iron(II). Gutteridge JM, et al. **Biochem J** 1990 Jul 1; 269(1):169–74

Bleomycin-iron can degrade DNA in the presence of excess ethylenediaminetetraacetic acid in vitro. Solomon LR, et al. **Biochemistry** 1989 Dec 26;28(26):9932–7

A photochemical system for generating free radicals: superoxide, phenoxyl, ferryl and methyl. Prolla TA, et al. **Free Radic Res Commun** 1990;9(2):135–46

Enhanced intestinal permeability to 51Cr-labeled EDTA in dogs with small intestinal disease. Hall EJ, et al. **J Am Vet Med Assoc** 1990 Jan 1;196(1):91–5

PHARMACOKINETICS

Prospective study of EDTA clearance among patients in long-term lithium treatment. Christensen EM, et al. **Acta Psychiatr Scand** 1990 Mar;81(3):302–3

Assessment of canine intestinal permeability, using 51Cr-labeled ethylenediaminetetraacetate. Hall EJ, et al. **Am J Vet Res** 1989 Dec;50(12):2069–74

Relationship between intestinal permeability to [51Cr]EDTA and inflammatory activity in asymptomatic patients with Crohn's disease. Pironi L, et al. **Dig Dis Sci** 1990 May; 35(5):582–8

Analysis of elimination mechanisms of some 99mTc-complexes. Lázníčková A, et al. **Int J Rad Appl Instrum [B]** 1989;16(8):765–70

Is renal lithium clearance altered in essential hypertension? Hla-Yee-Yee, et al. **J Hypertens** 1989 Dec;7(12):955–60

Screening of kidney function by plasma creatinine and single-sample 51Cr-EDTA clearance determination—a comparison. Groth S, et al. **Scand J Clin Lab Invest** 1989 Dec;49(8):707–10

Determination of 51Cr-EDTA clearance between 15 and 40 ml/min/1.73 m2 by a single plasma sample. Groth S, et al. **Scand J Clin Lab Invest** 1989 Dec;49(8):711–7

Intestinal permeability of 51Cr-labelled ethylenediaminetetraacetic acid in patients with Crohn's disease and their healthy relatives. Ainsworth M, et al. **Scand J Gastroenterol** 1989 Oct;24(8):993–8

PHARMACOLOGY

The influence of PTH, calcium gluconate and EDTA on the parotid saliva in the goat. Isac MD, et al. **Acta Physiol Hung** 1989;74(3–4):295–304

Effects of calcium and EDTA on rat skin capillary permeability and on its response to histamine, serotonin and bradykinin. Busch L, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):227–34

Organic and inorganic calcium blockers on voltage and receptor operated channels of resistance arteries of the rat. Fasciolo JC, et al. **Acta Physiol Pharmacol Latinoam** 1989; 39(2):101–17

Formation of diastereoisomeric 3a-hydroxypyrroloindoles from a tryptophan residue analog mediated by iron (II)-EDTA and L-ascorbate. Uchida K, et al. **Arch Biochem Biophys** 1990 May 15;279(1):14–20

Effect of EDTA on some biological properties of Pseudomonas aeruginosa. Veljanov D, et al. **Arch Roum Pathol Exp Microbiol** 1979 Jul–Dec; 38(3–4):257–63

Chelation of lead during co-exposure to ethanol. Dhawan M, et al. **Biochem Int** 1989 Nov;19(5):1067–75

Iron(II)-ethylenediaminetetraacetic acid catalyzed cleavage of RNA and DNA oligonucleotides: similar reactivity toward single- and double-stranded forms. Celander DW, et al. **Biochemistry** 1990 Feb 13;29(6):1355–61

Isolation and characterization of three distinct 34 kDa EDTA-extractable proteins from bovine lens. Kobayashi R, et al. **Biochim Biophys Acta** 1990 Apr 23;1034(1):4–10

Mouse zygote development in culture medium without protein in the presence of ethylenediaminetetraacetic acid. Fissore RA, et al. **Biol Reprod** 1989 Nov;41(5):835–41

The response of circulating parameters of bone mineral metabolism to ethanol- and EDTA-induced hypocalcemia in the rat. Thomas S, et al. **Bone Miner** 1990 Jan;8(1):1–6

Effect of EDTA on the bioavailability to rats of fortification iron used in Egyptian balady bread. Whittaker P, et al. **Br J Nutr** 1990 May;63(3):587–95

Hemocultures from chronic Chagasic patients using EDTA or heparin as anticoagulants. Galvão LM, et al. **Braz J Med Biol Res** 1989;22(7):841–3

Superoxide-driven NAD(P)H oxidation induced by EDTA-manganese complex and mercaptoethanol. Paoletti F, et al. **Chem Biol Interact** 1990;76(1):3–18

Inhibition of lactate dehydrogenase by an EDTA.Ca2+ complex. Shina R, et al. **Clin Chim Acta** 1990 Aug 15; 189(2):231–5

Differences in the effectiveness of EDTA to induce SCEs and chromosomal aberrations in CHO and Allium cepa chromosomes. Ortíz T, et al. **Cytobios** 1990; 61(246–247):187–93

Reconstitution of photophosphorylation in EDTA-treated thylakoids by added chloroplast coupling factor 1 (ATPase) and chloroplast coupling factor 1 lacking the delta subunit. Structural or functional? Engelbrecht S, et al. **Eur J Biochem** 1990 Apr 20;189(1):193–7

EDTA-induced platelet aggregation can be avoided by a new anticoagulant also suitable for automated complete blood count. Lippi U, et al. **Haematologica** 1990 Jan–Feb; 75(1):38–41

Calcium chelators induce bronchoconstriction in the canine lung periphery. Lindeman KS, et al. **J Appl Physiol** 1990 Mar;68(3):1114–20

Fusion of small unilamellar vesicles with viable EDTA-treated Escherichia coli cells. Marvin HJ, et al. **J Bacteriol** 1989 Oct;171(10):5268–75

Release of outer membrane fragments from wild-type Escherichia coli and from several E. coli lipopolysaccharide mutants by EDTA and heat shock treatments. Marvin HJ, et al. **J Bacteriol** 1989 Oct; 171(10):5262–7

Functioning of the colicin A lysis protein is affected by Triton X-100, divalent cations and EDTA. Cavard D, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1715–26

Dissolution of human brown pigment biliary stones. Dai KY, et al. **J Hepatol** 1989 Nov;9(3):301–11

Effect of EDTA on cytokeratin detection in the inner ear. Tonnaer EL, et al. **J Histochem Cytochem** 1990 Aug; 38(8):1223–7

System approach to the transepithelial transport across rat jejunal enterocytes: effect of cytochalasin B, colchicine, and ethylenediaminetetraacetic acid on butyric acid transport. Kreydiyyeh SI, et al. **J Pharm Sci** 1990 Jun; 79(6):494–9

Efficacy of the chelating agent CaEDTA in reversing lead-induced changes in behavior. Cory-Slechta DA, et al. **Neurotoxicology** 1990 Winter;10(4):685–97

The effects of thiamin on the neurophysiological alterations induced by lead. Kim JS, et al. **Vet Hum Toxicol** 1990 Apr; 32(2):101–5

[Studies on endotoxin of Leptospira. V. The effect of EDTA-Na on the release of the LPS of Leptospira interrogans serovar lai] Wu SH, et al. **Wei Sheng Wu Hsueh Pao** 1989 Oct;29(5):390–3 (Eng. Abstr.) **(Chi)**

[EDTA-dependent pseudothrombocytopenia in association with myasthenia gravis] Nagumo K, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):927–9 (Eng. Abstr.) **(Jpn)**

STANDARDS

A pilot double-blind study of sodium-magnesium EDTA in peripheral vascular disease. Olszewer E, et al. **J Natl Med Assoc** 1990 Mar;82(3):173–7

THERAPEUTIC USE

Influence of methionine supplementation in chelation of lead in rats. Kachru DN, et al. **Biomed Environ Sci** 1989 Sep; 2(3):265–70

A method for the treatment of lead poisoning in the mute swan (Cygnus olor) and its long-term success. Sears J, et al. **Br Vet J** 1989 Nov–Dec;145(6):586–95

Therapeutic effectiveness of 2,3,2 tet, cyclam and EDTA in toads exposed to lethal doses of nickel and cobalt. Hilmy AM, et al. **Comp Biochem Physiol [C]** 1990;95(1):79–83

Apparent failure of edetic acid chelation therapy for the treatment of coronary atherosclerosis. Wirebaugh SR, et al. **DICP** 1990 Jan;24(1):22–5

EDTA chelation as a treatment of arteriosclerosis [letter] Godfrey ME. **N Z Med J** 1990 Apr 11;103(887):162–3

Chelation therapy [letter] Thompson LJ. **N Z Med J** 1990 Jul 11;103(893):326–7

The risk of intentional dissolution of the smear layer after mechanical preparation of root canals. Gutiérrez JH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Jul;70(1):96–108

[Scavenging effect of EDTA-fluorocarbon microspheres on 210lead] Ding XC, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Sep;10(5):473–5 (Eng. Abstr.) **(Chi)**

[EDTA therapy of arteriosclerosis (letter)] Ahn NC, et al. **Ugeskr Laeger** 1989 Oct 2;151(40):2599 **(Dan)**

[Percutaneous transhepatic lysis of gallstones] Schumacher KA, et al. **ROFO** 1990 Apr;152(4):446–52 (Eng. Abstr.) **(Ger)**

[The effect of the disodium salt of ethylenediaminetetraacetate on the healing of experimental suppurative wounds] Levenets AA, et al. **Stomatologiia (Mosk)** 1989 Sep–Oct;68(5):14–6 (Eng. Abstr.) **(Rus)**

TOXICITY

A concerted approach to the study of the aneuploidogenic properties of two chelating agents (EDTA and NTA) in the germ and somatic cell lines of Drosophila and the mouse. Zordan M, et al. **Environ Mol Mutagen** 1990; 15(4):205–13

Interaction of EDTA with tributyltin induced cellular toxicity. Singh K, et al. **Indian J Exp Biol** 1989 Sep; 27(9):833–4

Urothelial injury from ethylenediaminetetraacetic acid used as an irrigant in the urinary tract. Kane MH, et al. **J Urol** 1989 Nov;142(5):1359–60

EDUCATION

see related
LEARNING
RESEARCH SUPPORT
TRAINING SUPPORT

Restructuring education and its impact on medical education. Cavazos LF. **Acad Med** 1990 Apr;65(4):230–3

Auxology and education: some educational implications from the relationships between physical and mental growth in Swedish schoolchildren. Lindgren GW. **Acta Paediatr Scand Suppl** 1989;350:105–20

Listing of educational programs in occupational therapy. November 1989. **Am J Occup Ther** 1989 Dec;43(12):833–40

Educational infant care and the public health [editorial] Leviton M, et al. **Am J Public Health** 1990 Jul;80(7):790–1

Psychosocial conferences in medical oncology. Role in a training program. Richards AI, et al. **Ann Intern Med** 1974 Apr;80(4):541–5

Investments in women, economic development, and improvements in health in low-income countries. Schultz TP. **Ann N Y Acad Sci** 1989;569:288–310 (37 ref.)

Motivation: what can we, as teachers, do? Cowan J. **Biochem Soc Trans** 1990 Apr;18(2):155–7

Age versus schooling effects on intelligence development. Cahan S, et al. **Child Dev** 1989 Oct;60(5):1239–49

Should educators accept medical jargon? [comment] Carey WB. **Clin Pediatr (Phila)** 1990 Mar;29(3):193–4 Comment on: Clin Pediatr (Phila) 1990 Mar;29(3):191–3.

Implications of mainstream classrooms for adolescents with spina bifida. Lord J, et al. **Dev Med Child Neurol** 1990 Jan;32(1):20–9

School teachers as primary health care workers. Olukoya AA, et al. **East Afr Med J** 1990 Feb;67(2):65–8

Nationwide survey of postsecondary education services for students with learning disabilities. Bursuck WD, et al. **Except Child** 1989 Nov;56(3):236–45

Postsecondary education for students with learning disabilities. Nelson R, et al. **Except Child** 1989 Nov; 56(3):246–65 (37 ref.)

The growth, development and education of Finnish twins: a longitudinal follow-up study in a birth cohort from pregnancy to nineteen years of age. Moilanen I, et al.

Growth Dev Aging 1989 Winter;53(4):145–50
Training of persons for the delivery of the Staying Healthy After Fifty Program. Kane-Williams E, et al. **Health Educ Q** 1989 Winter;16(4):473–83
Hemisphericity and its validity for education, vocation, and cognitive style. Gordon HW. **Int J Neurosci** 1989 Jul; 47(1–2):47–55
Pattern-recognition echocardiography: problems in education for a rapidly growing profession. Alexander NC. **J Am Soc Echocardiogr** 1988 Jul–Aug;1(4):291–2
Status of cardiovascular education. Carney DK. **J Am Soc Echocardiogr** 1988 Nov–Dec;1(6):466–9
Objectives to direct the training of emergency medicine residents in off-service rotations: plastic surgery. Chapman J, et al. **J Emerg Med** 1990 May–Jun;8(3):353–6
Are your local schools healthy? Bunch WH. **J Fla Med Assoc** 1990 Jan;77(1):45–6
Sharing knowledge and expertise. Havre DC. **J Fla Med Assoc** 1989 Sep;76(9):822
Physician: answer the school bell in your community. Cavazos LF. **J Miss State Med Assoc** 1990 Mar;31(3):75–8
Laboratory animal issues broadened with new focus on use by high schools. Samuels WM. **Physiologist** 1989 Dec; 32(6):261, 263
Learning mnemonics: roles of aging and subtle cognitive impairment. Yesavage JA, et al. **Psychol Aging** 1990 Mar; 5(1):133–7
Research support for Head Start [letter] **Science** 1990 Jun 8;248(4960):1174–6
California backs evolution education [news] Barinaga M. **Science** 1989 Nov 17;246(4932):880
Training volunteer caregivers of persons with AIDS. Jimenez MA, et al. **Soc Work Health Care** 1990;14(3):73–85
[Health aspects of the educational process in elementary schools] Provazník K, et al. **Zdrav Aktual** 1981;199:1–165 **(Cze)**
[Psychological preparation of operators for activity under conditions of prolonged overload] Oboznov AA, et al. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):26–9 (Eng. Abstr.) **(Rus)**
[Psychological determinants of the rate of pilot training] Tereliak Ia, et al. **Kosm Biol Aviakosm Med** 1990 May–Jun; 24(3):59–60 **(Rus)**
[Attitude to health of persons with higher education] Vodogreeva LV, et al. **Sov Zdravookhr** 1989;(11):31–4 **(Rus)**
[Educational and research program on diagnosis and treatment of otitis media in Latin America] Arriaga MA, et al. **Bol Med Hosp Infant Mex** 1990 Feb;47(2):116–9 (Eng. Abstr.) **(Spa)**

ECONOMICS

Families and schools in hard times. Flanagan CA. **New Dir Child Dev** 1990 Winter;(46):7–26

LEGISLATION & JURISPRUDENCE

Pediatric AIDS, developmental disabilities, and education: a review. Klindworth LM, et al. **AIDS Educ Prev** 1989 Winter;1(4):291–302 (42 ref.)
Reading, writing and the Texas supplement to the essential elements for the hearing impaired. Cowan SH. **Am Ann Deaf** 1990 Spring;135(1):41–2

METHODS

Society expects enrichment [editorial] Teuscher GW. **ASDC J Dent Child** 1990 Mar–Apr;57(2):96

STANDARDS

The state of U.S. science and engineering. Bloch E. **Acad Med** 1990 May;65(5):312–3
Language skills of children with different preschool experiences. Roberts JE, et al. **J Speech Hear Res** 1989 Dec;32(4):773–86

TRENDS

The changing nature of public schools: implications for teacher preparation. Cleary MJ, et al. **J Sch Health** 1990 Feb;60(2):53–5

EDUCATION, CONTINUING

AIDS education for family planning service providers [news] **AIDS Educ Prev** 1989 Spring;1(1):82
Fear of AIDS: issues for health professional education. Gerbert B, et al. **AIDS Educ Prev** 1989 Spring;1(1):39–52 (150 ref.)
The First International Interdisciplinary Course on AIDS [news] Sy FS. **AIDS Educ Prev** 1989 Spring;1(1):82
The Los Angeles connection: a follow-up report [news] Alkon E, et al. **Am J Public Health** 1990 Oct;80(10):1273
Cancer information for librarians: medical-subject-based continuing education. Ekstrand NL, et al. **Bull Med Libr Assoc** 1990 Jul;78(3):307–11
Continuing education through videotapes. Halsted DD, et al. **Bull Med Libr Assoc** 1990 Apr;78(2):194–5
Education—new directions, new constituents [editorial] Pizer IH. **Bull Med Libr Assoc** 1989 Oct;77(4):387–8
Learning, sagacity, humanity, and probity. Massey RU. **Conn Med** 1990 Jun;54(6):355
Professional education and training for trainers. Naylor A. **Int J Gynaecol Obstet** 1990;31 Suppl 1:25–7; discussion 43–5
Debate: a strategy for increasing interaction in audio teleconferencing. Wuest J. **J Adv Nurs** 1989 Oct; 14(10):847–52
Continuing professional education needs of clinical dietitians in Pennsylvania. Klevans DR, et al. **J Am Diet Assoc** 1990 Feb;90(2):282–6
BSN courses for students via satellite. Douglas BH, et al. **J Nurs Educ** 1989 Nov;28(9):428–30
Community health nursing practice for students in an outreach BSN program in rural North Carolina. Havens BB, et al. **J Nurs Educ** 1989 Oct;28(8):384–6
Marketing of nursing education: a case study. Leigh LE, et al. **J Nurs Educ** 1990 Mar;29(3):134–7
A comparative study of learning characteristics of RN and generic students. Linares AZ. **J Nurs Educ** 1989 Oct; 28(8):354–60
Portfolios and RNs: an evaluation. Oechsle L, et al. **J Nurs Educ** 1990 Feb;29(2):54–9
The relationship between selected educational outcomes of senior RN-to-BSN students and their choice of advanced placement options available in the Maryland nursing articulation model. Rapson MF, et al. **J Prof Nurs** 1990 Mar–Apr;6(2):113–20
Teaching quality assurance in Malaysia: a report on six workshops on quality assurance in patient care services for health care providers in government service. Reerink E, et al. **Med Educ** 1990 Jul;24(4):359–65
The Adjective Check List as a predictor of lifelong learning in the human service professions. Livneh C. **Psychol Rep** 1989 Oct;65(2):603–10
Invest in yourself. Bell S. **Radiol Technol** 1990 Jan–Feb; 61(3):225–6
CT technologist to MRI technologist: making the transition. King K. **Radiol Technol** 1989 Nov–Dec;61(2):121–3
Evaluation of the effectiveness of AIDS training and information courses. Sherr L, et al. **S Afr Med J** 1989 Oct 7;76(7):358–62
[Continuing education of administrators in Czechoslovak health care] Elterlein E, et al. **Cesk Zdrav** 1990 Jun; 38(5):193–208 (Eng. Abstr.) **(Cze)**
[Population course in psychological first aid] Kirk U. **Nord Med** 1990;105(5):154, 159 **(Dan)**
[Pilot projects] **Med Monatsschr Pharm** 1989 Dec;12(12):369 **(Ger)**

ECONOMICS

Linking nursing service and education for student scholarships. Koerner B. **J Prof Nurs** 1989 Sep–Oct; 5(5):243, 293

HISTORY

"The Bar Harbor Course": a 30-year veteran in the teaching of human genetics. Guethlein LA. **Am J Hum Genet** 1990 Jan;46(1):192–207

LEGISLATION & JURISPRUDENCE

Mandatory refreshment for nurses: an incentive to return? Cowling C. **J Adv Nurs** 1990 Jul;15(7):855–8

STANDARDS

The advanced biomedical photography class at RIT. Peres MR. **J Biol Photogr** 1990 Jan;58(1):21–6
Obstacles to effective professional education programming by a voluntary health association: findings from a national survey. Bertram DA, et al. **J Cancer Educ** 1988;3(1):29–40
Do educational conferences educate? [editorial] Stone S. **J Parenter Sci Technol** 1989 Sep–Oct;43(5):197–8
Do external degree programs really work? Lenburg CB. **Nurs Outlook** 1990 Sep–Oct;38(5):234–8

TRENDS

Continuing education/beyond higher education. Brandt EN Jr. **Bull Med Libr Assoc** 1990 Apr;78(2):157–60
The evolving role of the health sciences library in continuing education. Introduction. Hackleman KT, et al. **Bull Med Libr Assoc** 1990 Apr;78(2):155–6
The changing continuing education role of health sciences libraries. Messerle J. **Bull Med Libr Assoc** 1990 Apr; 78(2):180–7
[Unity of diagnostic pathology, continuing education and research at our institute] Kendrey G, et al. **Morphol Igazsagugyi Orv Sz** 1990 Jan;30(1):3–17 (Eng. Abstr.) **(Hun)**

EDUCATION, DENTAL

Push for "shortcuts" yields inferior results [letter] Brown Otopalik H. **Am J Orthod Dentofacial Orthop** 1990 Jan; 97(1):29A
Integration of basic biological sciences and clinical dentistry in the dental curriculum. A clinically orientated approach to teaching oral and dental anatomy. Gotjamanos T. **Aust Dent J** 1990 Jun;35(3):290–3
Survey of dental practice/dental education in Victoria. Part I. Questionnaire/general aspects. Stewart BL, et al. **Aust Dent J** 1989 Dec;34(6):563–70
Survey of dental practice/dental education in Victoria. Part IV. Specialist dental practice. Stewart BL, et al. **Aust Dent J** 1990 Jun;35(3):294–8
A new learning package [letter] Bickley SR. **Br Dent J** 1989 Oct 7;167(7):224–5
'Practice visits' [letter; comment] [see comments] Cutler R. **Br Dent J** 1989 Dec 9–23;167(11):371 Comment on: Br Dent J 1989 Nov 11;167(9):315–7. Comment in: Br Dent J 1990 Jan 20;168(2):51.
'Undergraduate teaching of hypnotherapy' [letter] Gandecha A, et al. **Br Dent J** 1990 Jun 9;168(11):430
Undergraduate teaching of hypnotherapy and its uses in the United States. Gandecha A. **Br Dent J** 1990 Mar 10; 168(5):220
Redkino to Rutland—a glimmer of Glasnost. Herd MM. **Br Dent J** 1990 Mar 10;168(5):217
Out of the egg. Mills C. **Br Dent J** 1989 Aug 19;167(4):148–9
A kaleidoscope of Kenya. Reilly T. **Br Dent J** 1990 Jun 9; 168(11):448–50
Elective—a trip to Toronto [see comments] Roberts J. **Br Dent J** 1990 Jan 20;168(2):78 Comment in: Br Dent J 1990 Feb 24;168(4):140.
'Undergraduate teaching of hypnotherapy' [letter] Taylor S. **Br Dent J** 1990 May 5;168(9):349
Provincial origin of first-time writers of the Canadian Dental Aptitude Test. Bennett IC, et al. **Can Dent Assoc J** 1990 Feb;56(2):129–34
Prelicensure revisited. Wiltshire L. **Can Dent Assoc J** 1989 Dec;55(12):958–9
Origin, training, and subsequent practice location of Scotland's General and Community dentists [published erratum appears in Community Dent Oral Epidemiol 1990 Jun;18(3):following 264] Fyffe HE, et al. **Community Dent Oral Epidemiol** 1989 Dec;17(6):325–9
Dental research. What priority in the academic environment? Burke JE. **Dent Clin North Am** 1990 Jan;34(1):155–7
Current curriculum changes in dental education in Europe. Anneroth G. **Int Dent J** 1989 Sep;39(3):205–9
Influence of dental school experience on sealant use by British dentists. Cohen L, et al. **Int Dent J** 1990 Aug; 40(4):249–52
Politics, education and curriculum. Likimani S. **Int Dent J** 1990 Jun;40(3):176–8
A social anthropology model to evaluate curricula of dental schools. Lopez Cámara V. **Int Dent J** 1990 Aug;40(4):242–8
Colour teaching aids in oral pathology. Aldred MJ, et al. **J Audiov Media Med** 1990 Jan;13(1):9–11
Orthodontic education and practice in Canada: perceptions of the profession as shown in a recent survey. Konchak PA, et al. **J Can Dent Assoc** 1990 Jun;56(6):537–9
Current status of the cast metal inlay: a survey of dental schools in the UK and Hong Kong. Newsome PR, et al. **J Dent** 1989 Oct;17(5):222–4
Curriculum guidelines for pharmacology. **J Dent Educ** 1990 May;54(5):297–303
Nutrition education. **J Dent Educ** 1990 Aug;54(8):502–20
67th AADS annual session. American Association of Dental Schools. March 4–7, 1990, Cincinnati, Ohio. Abstracts. **J Dent Educ** 1990 Jan;54(1):25–79
Curriculum guidelines for training general practice residents to treat the person with a handicap. **J Dent Educ** 1990 May;54(5):293–6
Long-term effects of a course on dental care for handicapped persons. Bedi R, et al. **J Dent Educ** 1989 Dec;53(12):722–4
Response to John Klyop: the role of dental education in promoting quality assurance. Capilouto E. **J Dent Educ** 1989 Nov;53(11):679–8
Nutrition education in the Dental School at the University of Texas Health Science Center at San Antonio. Craig JL. **J Dent Educ** 1990 Aug;54(8):506–9
Update on death education in U.S. dental schools [letter] Dickinson GE, et al. **J Dent Educ** 1989 Oct;53(10):564
Nutrition in the dental curriculum: Seattle model. Faine MP. **J Dent Educ** 1990 Aug;54(8):510–2
Microcomputer elective for senior dental students. Feldman CA. **J Dent Educ** 1990 Sep;54(9):570–5
Faculty alterations of patient treatment plans. Kennon S. **J Dent Educ** 1989 Oct;53(10):587–9
Discrimination training and formative evaluation for remediation in basic waxing skills. Knight GW, et al. **J Dent Educ** 1990 Mar;54(3):194–8
Continuing progress in infection control in U.S. dental schools. Merchant VA, et al. **J Dent Educ** 1990 Aug; 54(8):521–6
Applied nutrition in dental education; issues and challenges. Palmer CA. **J Dent Educ** 1990 Aug;54(8):513–8; discussion 519–20 (71 ref.)
Incidence of measurement disturbances in the Dental Admission Quantitative Reasoning Test. Smith RM, et al. **J Dent Educ** 1990 Jun;54(6):314–8
Production of artificial lesions for teaching cavity preparation in the phantom head. Treasure P. **J Dent Educ** 1990 May; 54(5):291–2
The use of videotapes in teaching tooth morphology. Whittaker DK, et al. **J Dent Educ** 1989 Oct;53(10):581–3
Objectives to direct the training of emergency medicine residents in off-service rotations: dental emergencies. Schlesinger J, et al. **J Emerg Med** 1990 Jan–Feb;8(1):93–6
The effect of clinical experience on dental students' ability to design removable partial denture frameworks. McKinstry RE, et al. **J Prosthet Dent** 1989 Nov;62(5):563–6
Mounting natural teeth for preclinical exercises. Swift EJ Jr, et al. **J Prosthet Dent** 1990 Jan;63(1):94–7
Implications of AIDS for teachers of medicine to dental students. Russell JG, et al. **Med Educ** 1989 Nov;23(6):534–7

Informatics in dental education: a horizon of opportunity. Abbey LM. **Methods Inf Med** 1989 Nov;28(4):255–60
Oral biology development at Stony Brook and its implications. Kleinberg I. **N Y State Dent J** 1990 May; 56(5):21–3
[Use of personal computers in physiology education] Illert M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:267–8 (Ger)
[Switzerland–the European Community: recognition of the higher–education diploma (editorial)] Venner K. **Schweiz Monatsschr Zahnmed** 1990;100(3):263, 265 (Ger, Fre)
[The practical game of "The Pathology of the Sensory Portion of the Trigeminal Nerve" in the process of teaching dental students the subject of "The Main Neurostomatologic Diseases and Syndromes"] Grachko VE, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):86–8 (Rus)
[The olympiad as a form of independent student work during instruction in dentistry departments] Gusenov GV, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):83–5 (Rus)
[The work experience of students of a dentistry department in introducing medical pedagogic measures at the school] Kasenova LR. **Stomatologiia (Mosk)** 1989 Jul–Aug; 68(4):85–6 (Rus)
[Experience in conducting student research work during practical training] Kazakova RV, et al. **Stomatologiia (Mosk)** 1989 Jul–Aug;68(4):80–1 (Rus)
[The experience of teaching internal diseases to the students of an oral medicine faculty in specialized oral medicine departments] Kirsanov AI, et al. **Ter Arkh** 1990; 62(2):148–50 (Rus)

ECONOMICS

Study now, pay later [editorial] **Br Dent J** 1990 Feb 10; 168(3):89
Where are we going? Matthews RW. **Br Dent J** 1990 Apr 21;168(8):317
'Study now, pay later' [letter] Mitchell DA. **Br Dent J** 1990 Apr 21;168(8):319
Effect of financial incentive on productivity in a postgraduate general dentistry program. Jensen OE, et al. **J Dent Educ** 1990 Apr;54(4):237–9

MANPOWER

Re: The present state of orthodontic departments [letter; comment] Stephens CD. **Am J Orthod Dentofacial Orthop** 1990 May;97(5):25A Comment on: Am J Orthod Dentofacial Orthop 1989 Sep;96(3):266–7.

METHODS

Changing perceptions of the requirements of cavity preparations [see comments] Elderton RJ, et al. **Br Dent J** 1990 Jan 6;168(1):30–2 Comment in: Br Dent J 1990 Feb 10;168(3):92.
A dental cancer education program: oral care for the cancer patient. Burns JC, et al. **J Cancer Educ** 1989;4(1):67–8
Implementing problem based learning. Branda LA. **J Dent Educ** 1990 Sep;54(9):548–9
Mapping our way through the information jungle. Durlak J. **J Dent Educ** 1990 Sep;54(9):552–6
The effectiveness of a leadup activity on performance in an operative preclinic laboratory course. Feil PH, et al. **J Dent Educ** 1989 Oct;53(10):565–8
Problem–based learning: does it make a difference? Ferrier BM. **J Dent Educ** 1990 Sep;54(9):550–1
A view from the field: substantial curriculum reform. Reed MJ. **J Dent Educ** 1990 Sep;54(9):560–3
Responding to educational challenges with problem–based learning and information technology. Tedesco LA. **J Dent Educ** 1990 Sep;54(9):544–7
Catching information technology by the tail for problem–based learning. Vickers JD. **J Dent Educ** 1990 Sep;54(9):557–9

ORGANIZATION & ADMINISTRATION

Aptitude testing and the selection of dental students. Spratley MH. **Aust Dent J** 1990 Apr;35(2):159–68 (93 ref.)
Patient debt management and student academic progress. Cameron CA, et al. **J Dent Educ** 1989 Oct;53(10):569–72
Strengthening the education of the general dentist for the 21st century. Formicola AJ, et al. **J Dent Educ** 1990 Feb; 54(2):109–14
Initiating change under the Pew National Dental Education Program at the University of California, San Francisco. Greene JC, et al. **J Dent Educ** 1990 Feb;54(2):104–8
The Pew National Dental Education Program at the University of Florida College of Dentistry. McNeal DR, et al. **J Dent Educ** 1990 Feb;54(2):115–22
The development and implementation of a dental school strategic plan. Moreland EF, et al. **J Dent Educ** 1990 Feb; 54(2):123–30
Pew National Dental Education Program: an unfinished agenda. O'Neil EH. **J Dent Educ** 1990 Feb;54(2):100–2
Pew National Dental Education Program: works in progress. O'Neil EH. **J Dent Educ** 1990 Feb;54(2):103
Change planning and implementation at Oregon. Van Hassel HJ, et al. **J Dent Educ** 1990 Feb;54(2):131–6

STANDARDS

Educational malpractice: a look in the mirror [letter; comment] Litt RA. **Am J Orthod Dentofacial Orthop** 1990 Mar;97(3):27A–28A, 30A Comment on: Am J Orthod Dentofacial Orthop 1989 Oct;96(4):27A–28A.
Educational malpractice: a timely proposal? [letter] [see comments] Vig PS. **Am J Orthod Dentofacial Orthop** 1989 Oct;96(4):27A–28A Comment in: Am J Orthod Dentofacial Orthop 1990 Feb;97(2):16A. Comment in: Am J Orthod Dentofacial Orthop 1990 Mar;97(3):27A–28A, 30A.
The teaching of dento–maxillo–facial radiology in Australian dental schools. Keur JJ, et al. **Aust Dent J** 1989 Oct; 34(5):478–84
'MGDS examination' [letter] Green RM. **Br Dent J** 1990 Jun 9;168(11):428
Undergraduate orthodontics—a collision course on occlusion. Richardson A, et al. **Br Dent J** 1990 Jun 9; 168(11):424–5
What does the college do? Biddington WR. **J Am Coll Dent** 1990 Spring;57(1):36–9
Curriculum guidelines for preclinical dental assisting. **J Dent Educ** 1990 Sep;54(9):579–81
Curriculum guidelines for management of medical emergencies in dental education. **J Dent Educ** 1990 Jun; 54(6):337–8
Curriculum guidelines for physical evaluation. **J Dent Educ** 1990 Jun;54(6):339–41
Outcome measures in dental education—we've only just begun. Morganstein WM. **J Dent Educ** 1990 Jun; 54(6):308–10
Gender differences in item performance and predictive validity on the DAT Quantitative Reasoning Test. Smith RM, et al. **J Dent Educ** 1989 Dec;53(12):708–11
A modest proposal to help ameliorate a problem in the American dental profession [editorial] Tabak LA. **J Dent Res** 1990 May;69(5):1227
To what degree can we change our future? [letter; comment] **J Oral Maxillofac Surg** 1989 Oct;47(10):1124–6 Comment on: J Oral Maxillofac Surg 1989 Jun;47(6):553.
The double–degree debate continues [letter] **J Oral Maxillofac Surg** 1989 Oct;47(10):1123–4
General surgery training in double–degree programs [letter] Chuong R. **J Oral Maxillofac Surg** 1990 Feb;48(2):222
American Association of Public Health Dentistry: recommendations for teaching about the prescription of dietary fluoride supplements. **J Public Health Dent** 1989 Fall;49(4):237–41
Feedback from dental students: performance in an anatomy department. Parkin IG, et al. **Med Educ** 1990 Jan; 24(1):27–31
[Improved professional training of foreign dental students] Okushko VR, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec; 68(6):74–5 (Rus)

STATISTICS & NUMERICAL DATA

Survey of dental practice/dental education in Victoria. Part II. Recent graduates/graduating students. Ralph WJ, et al. **Aust Dent J** 1990 Feb;35(1):69–75
A survey of the pattern of private general dental practice in Queensland. Spratley MH, et al. **Aust Dent J** 1989 Oct; 34(5):474–7
Dental implantology in U.S. dental schools. Bavitz JB. **J Dent Educ** 1990 Mar;54(3):205–6
Marketing curricula in U.S. dental schools. Cunningham MA, et al. **J Dent Educ** 1990 May;54(5):286–7
Teaching a comprehensive orofacial pain course in the dental curriculum. Gonty AA. **J Dent Educ** 1990 Jun;54(6):319–22
Bulimia and anorexia nervosa in dental and dental hygiene curricula. Gross KB, et al. **J Dent Educ** 1990 Mar; 54(3):210–2
Instruction in child abuse and neglect in the predoctoral curriculum. Posnick WR, et al. **J Dent Educ** 1990 Feb; 54(2):158–9

TRENDS

Dental educational trends in Africa with special reference to southern Africa. Dreyer WP. **Int Dent J** 1989 Sep; 39(3):211–5
Dental education: embarking on a new era. McCann D. **J Am Dent Assoc** 1990 Jun;120(6):654–9
Dentistry's future at the University of Southern California. Crawford WH Jr. **J Dent Educ** 1990 Feb;54(2):137–48
The changing role of prevention in dental education. Lange BM, et al. **J Dent Educ** 1990 Sep;54(9):567–9
Where is quality assurance going in dental school curricula? Loupe MJ. **J Dent Educ** 1990 Apr;54(4):233–6
On the brink—will dental education be ready for the future? Neidle EA. **J Dent Educ** 1990 Sep;54(9):564–6
Dental education 1989: how are we adapting to change? Wotman S. **J Dent Educ** 1989 Dec;53(12):697–703
Mechanical vs. disease–oriented treatment of dental caries: educational aspects [editorial] Thylstrup A. **J Dent Res** 1989 Jun;68(6):1135
Science in schools and medical education [letter; comment] Barss P. **P N G Med J** 1989 Sep;32(3):225–6 Comment on: P N G Med J 1988 Mar;31(1):1–4.
[Switzerland–the European Community: recognition of the higher–education diploma (editorial)] Venner K. **Schweiz Monatsschr Zahnmed** 1990;100(3):263, 265 (Ger, Fre)
[Thoughts on the rate of training of dentists as well as the total number of dentists in Hungary] Szabó I. **Fogorv Sz** 1989 Nov;82(11):327–30 (Eng. Abstr.) (Hun)
[Teaching propedeutics of conservative dentistry] Szentpétery J. **Fogorv Sz** 1989 Nov;82(11):331–6 (Hun)
[Problems in clinical education of dentistry] Kurosaki N. **Kokubyo Gakkai Zasshi** 1989 Sep;56(3):403–8 (10 ref.) (Jpn)
[The effectiveness of studies at the Department of Stomatology of the Pomeranian Medical Academy] Malejewska D, et al. **Ann Acad Med Stetin** 1989;35:89–97 (Eng. Abstr.) (Pol)
[Perestroika in the teaching of dentistry at medical and health and hygiene departments in accord with the new academic plan] Bazhanov NN, et al. **Stomatologiia (Mosk)** 1990 Mar–Apr;69(2):85–6 (Rus)

EDUCATION, DENTAL, CONTINUING

Orthodontics for the general practitioner. Views expressed by Dr. J. R. C. Mew and Dean C. B. Preston [letter] Mew JR, et al. **Am J Orthod Dentofacial Orthop** 1990 Feb; 97(2):17A–19A
A learning initiative in Scotland [editorial] **Br Dent J** 1989 Dec 9–23;167(11):361–2
'The Master Class Initiative' [letter] Conway R. **Br Dent J** 1990 Jul 21;169(2):39
The Master Class initiative. Gordon E. **Br Dent J** 1990 Jun 23;168(12):470
Reasonable remuneration? [letter] Newman Brown PJ. **Br Dent J** 1990 Mar 10;168(5):184–5
Dental practitioner attendances at postgraduate courses in a dental school. Walmsley AD, et al. **Br Dent J** 1990 Jul 21;169(2):61–3
Orthodontic continuing education in the UK [editorial] Usiskin LA. **Br J Orthod** 1990 Feb;17(1):69–70
Some answers to questions about 'Quest' [letter] Blatchford W. **Can Dent Assoc J** 1989 Nov;55(11):865
A survey of attenders and non–attenders at dental section 63 courses in south–east Scotland. Wild JR. **Health Bull (Edinb)** 1989 Mar;47(2):92–4
Continuing education course listing for June to December 1990. Council on Dental Education. **J Am Dent Assoc** 1990 Jun;120(6):695–8, 700–2, 704–15
Continuing education course listing for January to June 1990. Council on Dental Education. **J Am Dent Assoc** 1989 Dec; 119(6):763–80
AIDS and dentistry: the governmental view. Palmer C. **J Am Dent Assoc** 1989 Nov;Suppl:3S–8S
On mandatory continuing education. Karnoff EM. **N Y State Dent J** 1990 Jun–Jul;56(6):8
[Problems in the postgraduate instruction of orthodontists] Nazarov GI. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):87–9 (Rus)
[Problems in the postgraduate training of orthodontists] Nazarov GI. **Stomatologiia (Mosk)** 1990 May–Jun; 69(3):85–6 (Rus)

ECONOMICS

Reasonable remuneration? [letter] Newman Brown PJ. **Br Dent J** 1990 Mar 10;168(5):184–5

STANDARDS

"Educational malpractice" letter prompts Idaho response [letter; comment] Simpson CG. **Am J Orthod Dentofacial Orthop** 1990 Feb;97(2):16A Comment on: Am J Orthod Dentofacial Orthop 1989 Oct;96(4):27A–28A.
Dentists' knowledge, case–finding behavior, and confirmed diagnosis of oral cancer. Sadowsky D, et al. **J Cancer Educ** 1988;3(2):127–34

TRENDS

[Chile: innovations in odontology teaching] Misrachi C, et al. **Educ Med Salud** 1989 Oct–Dec;23(4):332–43 (Spa)

EDUCATION, DENTAL, GRADUATE

The graduate students: an awakening minority in the American Association of Orthodontists. Tinsworth SH. **Am J Orthod** 1974 Nov;66(5):571–3
'MGDS examination' [letter] [see comments] **Br Dent J** 1990 Jan 20;168(2):52–4 Comment in: Br Dent J 1990 Feb 24;168(4):137–8.
'MGDS examination' [letter] **Br Dent J** 1990 Jun 23; 168(12):468–9
'MGDS examination' [letter; comment] **Br Dent J** 1990 Mar 24;168(6):228–9 Comment on: Br Dent J 1989 Nov 11;167(9):302–3.
The MGDS: a candidate's view—Part 2. Scola CM. **Br Dent J** 1990 Mar 10;168(5):210–2
The MGDS: a candidate's view—Part 3. Scola CM. **Br Dent J** 1990 Apr 7;168(7):306–8
The MGDS: a candidate's view—Part 1. Scola CM. **Br Dent J** 1990 Feb 10;168(3):125–6
MGDS examination [letter] [see comments] Thomas D. **Br Dent J** 1989 Nov 11;167(9):302–3 Comment in: Br Dent J 1989 Dec 9–23;167(11):368. Comment in: Br Dent J 1990 Mar 24;168(6):228–9.
Criteria for approval of training programmes for senior registrars in orthodontics in the United Kingdom. Orton HS. **Br J Orthod** 1989 Nov;16(4):285–8

A survey of Canadian pediatric dentists: practice characteristics and views on dental education. elBadrawy HE. **Can Dent Assoc J** 1989 Oct;55(10):815–9
Educational outcomes: their impact on graduate pediatric dentistry education. Adair SM. **J Dent Educ** 1990 Mar; 54(3):188–90

ECONOMICS

The long-term impact of a training program in maxillofacial prosthodontics. Gotay CC, et al. **J Cancer Educ** 1988; 3(3):181–6

STANDARDS

The teaching of dento-maxillo-facial radiology in Australian dental schools. Keur JJ, et al. **Aust Dent J** 1989 Oct; 34(5):478–84
Evaluation of fellowship and residency programs in a comprehensive cancer center. Silberberg Y. **J Cancer Educ** 1986;1(2):89–94
To what degree are we maxillofacial surgeons? [letter] Baird W. **J Oral Maxillofac Surg** 1989 Oct;47(10):1126–7

STATISTICS & NUMERICAL DATA

Pediatric dentists: evolving demography. Waldman HB. **ASDC J Dent Child** 1990 Mar–Apr;57(2):111–3

TRENDS

[Problems in clinical education of dentistry] Kurosaki N. **Kokubyo Gakkai Zasshi** 1989 Sep;56(3):403–8 (10 ref.) (Jpn)

EDUCATION, DENTAL HEALTH see **HEALTH EDUCATION, DENTAL**

EDUCATION DEPARTMENT, HOSPITAL see under **HOSPITAL DEPARTMENTS**

EDUCATION, GRADUATE

Research training in medical informatics: the Stanford experience. Shortliffe EH, et al. **Acad Med** 1989 Oct; 64(10):575–8
Report of the 1989 Asilomar meeting on education in genetic counseling. Walker AP, et al. **Am J Hum Genet** 1990 Jun; 46(6):1223–30
National survey of infection control practitioners' educational needs. Turner JG, et al. **Am J Infect Control** 1990 Apr; 18(2):86–92
Listing of educational programs in occupational therapy. November 1989. **Am J Occup Ther** 1989 Dec;43(12):833–40
A part-time Level II fieldwork program. Adelstein LA, et al. **Am J Occup Ther** 1990 Jan;44(1):60–5
An initiation into teaching for graduate students. Van Liew HD. **Am J Physiol** 1989 Dec;257(6 Pt 3):S3–5
More on AuD. **ASHA** 1990 Jun–Jul;32(6–7):97–8
The professional doctorate: wishing doesn't make it so [editorial] Feldman AS. **ASHA** 1989 Dec;31(12):51–2
The Masters Degree in Medical Physics at Queensland University of Technology—14 years on. Thomas BW, et al. **Australas Phys Eng Sci Med** 1990 Mar;13(1):36–41
Motivation of postgraduate students: transatlantic comparisons. Murphy RF. **Biochem Soc Trans** 1990 Apr; 18(2):160–1
Motivation of postgraduate students. O'Kennedy R. **Biochem Soc Trans** 1990 Apr;18(2):161–2
Graduate education in the history of medicine: Federal Republic of Germany. Tröhler U. **Bull Hist Med** 1989 Fall; 63(3):435–43
Higher education options [letter; comment] Hewitt D. **Can J Public Health** 1990 May–Jun;81(3):240 Comment on: Can J Public Health 1990 Jan–Feb;81(1):84.
Clinical pharmacology: where has the support gone? Brater DC. **Clin Pharmacol Ther** 1990 Sep;48(3):219–24
Hospital graduate social work field work programs: a study in New York City. Showers N. **Health Soc Work** 1990 Feb;15(1):55–63
Index of Graduate Theses and Projects in Allied Health. **J Allied Health** 1989 Fall;18(5):483–549
RDs respond to physician's suggestions [letter; comment] **J Am Diet Assoc** 1990 Feb;90(2):200, 202 Comment on: J Am Diet Assoc 1989 Sep;89(9):1230, 1234.
A retrospective study of graduates of a coordinated internship/master's degree program. Fiedler KM, et al. **J Am Diet Assoc** 1990 Apr;90(4):591–6
Nutrition education strategies for work-site wellness: evaluation of a graduate course targeted to work-site wellness majors. Friesen CA, et al. **J Am Diet Assoc** 1990 Jun;90(6):854–6
Back to school again: first step toward a new career. Jones G. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1236–7
Training and education in medical art. Pegus L. **J Audiov Media Med** 1989 Apr;12(2):66–9
The Boulder and/or the Vail model: training preferences of clinical psychologists. Norcoss JC, et al. **J Clin Psychol** 1989 Sep;45(5):822–8
The directory of graduate programs in nutritional sciences. **J Nutr** 1989 Oct;119 Suppl 10:D1–92
MD–PhD programs: at a crossroads? Cantor MD. **JAMA** 1990 Feb 2;263(5):755–6
The clinician–researcher's unique perspective. Hornyak TJ. **JAMA** 1990 Feb 2;263(5):756
[Teaching and advanced training in the field of animal welfare and behavioral science] Unsheim J. **DTW Dtsch Tierarztl Wochenschr** 1990 Jun;97(6):250–3 (Eng. Abstr.) (Ger)
[On the article: Laaser U, Wolter P. Graduate studies in the health sciences at the Bielefeld University in the framework of comparable endeavors. Soz. Praeventivmed 1989; 34:223–226. Reply to Irmgard Nippert's Letter to the editor (letter)] Laaser U, et al. **Soz Praventivmed** 1990;35(3):138 (Ger)
[Public health sciences graduate study at the Bielefeld University in the framework of comparative endeavours] Laaser U, et al. **Soz Praventivmed** 1989;34(5):223–6 (Eng. Abstr.) (Ger)
[On the article: Laaser U, Wolter P. Health sciences graduate studies at the Bielefeld University in the framework of comparable endeavors. Soz. Praeventivmed 1989; 34:223–226 (letter)] Nippert I. **Soz Praventivmed** 1990; 35(2):81 (Ger)
[Current status and perspectives of bioethics in Argentina] Zanier J, et al. **Bol Of Sanit Panam** 1990 May–Jun; 108(5–6):500–11 (3 ref.) (Eng. Abstr.) (Spa)
[Criteria to determine academic levels in public health] Palencia M, et al. **Salud Publica Mex** 1989 Nov–Dec; 31(6):793–9 (Eng. Abstr.) (Spa)

ECONOMICS

Financial support requested [letter] Alvares RL. **ASHA** 1990 May;32(5):3
The British knowledge industry: nationalized, privatized or hybrid? Dainton. **J R Soc Med** 1989 Dec;82(12):704–11
Pick your favourite—student loans or fees? Jamieson H. **N Z Med J** 1990 Aug 22;103(896):405

HISTORY

The graduate school of biological sciences: the first 25 years [interview by Sherman Kupfer] Krulwich TA. **Mt Sinai J Med** 1989 Oct;56(5):383–91

STANDARDS

Standards for accreditation of educational programs. **ASHA** 1990 Jun–Jul;32(6–7):93–4, 100
Components needed to support graduate education. Casarett A. **J Prof Nurs** 1989 Sep–Oct;5(5):256–60
The incorporation of practice into graduate education for public health. Stauffer LD. **J Public Health Policy** 1990 Spring;11(1):16–25

TRENDS

Graduate programs cater to working CEOs. Droste T. **Hospitals** 1990 Apr 5;64(7):58
A comprehensive survey of graduate education and training in hazardous waste management. Kummler RH, et al. **J Air Waste Manage Assoc** 1990 Jan;40(1):32–7

EDUCATION, HEALTH see **HEALTH EDUCATION**

EDUCATION, MEDICAL

Teaching medical ethics. **Acad Med** 1989 Dec;64(12):699–764
Proceedings from the Conference on Ambulatory Care and Education. July 1988, Los Angeles, California. **Acad Med** 1989 Oct;64(10 Suppl):S1–74
Research in medical education. Proceedings of the twenty-ninth annual conference sponsored by the Association of American Medical Colleges. October 1990, San Francisco, California. **Acad Med** 1990 Sep;65(9 Suppl):S1–73
Undergraduate and graduate medical education in ambulatory care. **Acad Med** 1989 Oct;64(10 Suppl):S53–5
Detecting and correcting for rater-induced differences in standardized patient tests of clinical competence. Abrahamowicz M, et al. **Acad Med** 1990 Sep;65(9 Suppl):S25–6
Teaching medical ethics in its contexts: Penn State College of Medicine. Barnard D, et al. **Acad Med** 1989 Dec; 64(12):744–6
Medical informatics for the other ninety percent: the Dartmouth experience. Beck JR, et al. **Acad Med** 1990 May; 65(5):298–301
Investigating the nature of the morbidity and mortality conference. Biddle C, et al. **Acad Med** 1990 Jun;65(6):420
Which medical textbook to read? Emphasizing semantic structures. Bordage G, et al. **Acad Med** 1990 Sep;65(9 Suppl):S23–4
Ethics education at Northwestern University Medical School. Bresnahan JF, et al. **Acad Med** 1989 Dec; 64(12):740–3
The effects of early patient contact: the student's perspective. Briggs-Style C, et al. **Acad Med** 1990 Sep;65(9 Suppl):S33–4
The Baylor experience in teaching medical ethics. Brody BA. **Acad Med** 1989 Dec;64(12):715–8
Status report on the NBME's computer-based testing. Clyman SG, et al. **Acad Med** 1990 Apr;65(4):235–41
Factors influencing ambulatory care education in the U.S. Department of Veterans Affairs. Dacso CC. **Acad Med** 1989 Oct;64(10 Suppl):S4–8
Clinical education: the legacy of Osler revisited. Dauphinee WD. **Acad Med** 1990 Sep;65(9 Suppl):S68–73
Using classic and contemporary visual images in clinical teaching. Edwards JC. **Acad Med** 1990 May;65(5):297–8
Problem-based learning: cognitive retention and cohort traits of randomly selected participants and decliners. Eisenstaedt RS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S11–2
The extent of transfusion medicine education during the fourth year at U.S. and Canadian medical schools. Fang WL, et al. **Acad Med** 1990 Jun;65(6):419
Evolution of clinical ethics teaching at the University of Pittsburgh. Frader J, et al. **Acad Med** 1989 Dec; 64(12):747–50
Charting the winds of change: evaluating innovative medical curricula. Friedman CP, et al. **Acad Med** 1990 Jan; 65(1):8–14
An American–Soviet medical scholars exchange program. Greer DS, et al. **Acad Med** 1989 Nov;64(11):654–6
A field test of the TIME patient simulation model. Harless WG, et al. **Acad Med** 1990 May;65(5):327–33
Postbaccalaureate preparation and performance in medical school. Hojat M, et al. **Acad Med** 1990 Jun;65(6):388–91
Medical ethics teaching programs at the University of California, San Francisco, and the University of Washington. Jonsen AR. **Acad Med** 1989 Dec; 64(12):718–22
Primary health care: implications for the medical profession and education. Kar SB. **Acad Med** 1990 May;65(5):301–6
On standardized patients and clinical skills assessment [editorial] Kassebaum DG. **Acad Med** 1990 May;65(5):307
Development of the medical humanities program at East Carolina University. Kopelman LM. **Acad Med** 1989 Dec; 64(12):730–4
Order effects in standardized patient examinations. Lloyd JS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S51–2
Medical ethics education: coming of age. Miles SH, et al. **Acad Med** 1989 Dec;64(12):705–14 (100 ref.)
An integrated anatomy and cardiopulmonary resuscitation course. Nelson MS. **Acad Med** 1990 Jun;65(6):421
How medical school faculty regard educational research and make pedagogical decisions. Nelson MS, et al. **Acad Med** 1990 Feb;65(2):122–6
Teaching medical ethics: some persistent questions and some responses. Pellegrino ED. **Acad Med** 1989 Dec; 64(12):701–3
Evaluating clinical teachers for promotion. Rothman AI, et al. **Acad Med** 1989 Dec;64(12):774–5
A comparison of two methods for facilitating clinical data integration by medical students. Russell IJ, et al. **Acad Med** 1990 May;65(5):333–40
Student fatigue as a variable affecting performance in an objective structured clinical examination. Rutala PJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S53–4
The effect of teaching medical ethics on medical students' moral reasoning. Self DJ, et al. **Acad Med** 1989 Dec; 64(12):755–9
Using classic mystery stories in teaching. Sheldon SH, et al. **Acad Med** 1990 Apr;65(4):234–5
Teaching medical ethics: a hard-won beachhead. Stemmler EJ. **Acad Med** 1989 Dec;64(12):704
An assessment of the clinical skills of fourth-year students at four New England medical schools. Stillman PL, et al. **Acad Med** 1990 May;65(5):320–6
Results of a survey on the use of standardized patients to teach and evaluate clinical skills. Stillman PL, et al. **Acad Med** 1990 May;65(5):288–92
Setting content-based standards for national board exams: initial research for the Comprehensive Part I Examination. Swanson DB, et al. **Acad Med** 1990 Sep;65(9 Suppl):S17–8
Factors associated with the accuracy of standardized patient presentation. Tamblyn RM, et al. **Acad Med** 1990 Sep;65(9 Suppl):S55–6
The clinical medical humanities program at Loyola University of Chicago. Thomasma DC, et al. **Acad Med** 1989 Dec;64(12):735–9
Development of a teaching program in clinical medical ethics at the University of Chicago. Walker RM, et al. **Acad Med** 1989 Dec;64(12):723–9
Teaching clinical problem solving. Kassirer JP. **Acta Clin Belg** 1989;44(5):291–4
Education and training in geriatric psychiatry. Lebowitz BD, et al. **Adv Psychosom Med** 1989;19:167–78
The medical profession has achieved a major change in its smoking behaviour; how might undergraduate medical education achieve a similar change in doctors' drinking habits? Talbot K. **Alcohol Alcohol** 1989;24(4):339–45
Partnership of Federal agencies and the cardiologist in research, teaching and practice. **Am J Cardiol** 1967 Aug; 20(2):270–84
A study of infection control training needs of medical students [letter] Cooper GS, et al. **Am J Infect Control** 1990 Apr;18(2):126–7
Education of American doctors [letter; comment] Berner ES. **Am J Orthopsychiatry** 1989 Oct;59(4):620–1 Comment on: Am J Orthopsychiatry 1989 Apr;59(2):303–9.
Preventive cardiology: perspectives in physician education. **Am J Prev Med** 1990;6(2 Suppl):1–100
Teaching preventive cardiology in the pediatric setting. Williams CL, et al. **Am J Prev Med** 1990;6(2 Suppl):84–92
'Anaesthetic training in Brazil: clarification' [letter; comment] Brown TC. **Anaesth Intensive Care** 1989 Nov;17(4):516 Comment on: Anaesth Intensive Care 1989 Feb;17(1):6–8.
The paradox of commencements and continuity [editorial] Bogdonoff MD. **Arch Intern Med** 1970 Jun;125(6):1078–9
The changing paradigm of neurologic practice and care.

Implications for the undergraduate curriculum. Menken M. **Arch Neurol** 1990 Mar;47(3):334–6

A mannequin for teaching ocular fundus examination skills [letter] Kahlenborn C, et al. **Arch Ophthalmol** 1989 Dec; 107(12):1725–6

A guide to textbooks for introductory medical school pathology courses. Group for Research in Pathology Education. Friedlander ER, et al. **Arch Pathol Lab Med** 1990 Jan;114(1):18–23

A new look at an old routine. The introductory course. Gelfer MP, et al. **ASHA** 1989 Dec;31(12):49–50, 52

Medical education in the UK [letter] Fisher L, et al. **Aust Fam Physician** 1989 Nov;18(11):1452–3

Computers and the presentation skills of students [letter] Levy F. **Aust N Z J Psychiatry** 1990 Jun;24(2):165

Psychiatry as a career choice. Mowbray RM, et al. **Aust N Z J Psychiatry** 1990 Mar;24(1):57–64

Factors that determine medical student interest in psychiatry. Ney PG, et al. **Aust N Z J Psychiatry** 1990 Mar;24(1):65–76

How many dermatologists? 1973 revisited [published erratum appears in Australas J Dermatol 1988;29(3):126] Taft EH. **Australas J Dermatol** 1988;29(2):61–71

Self assessment and medical audit: an educational approach [editorial] Coles C. **BMJ** 1989 Sep 30;299(6703):807–8

The Edinburgh declaration [editorial] **Bol Chil Parasitol** 1988 Jul–Dec;43(3–4):35 **(Eng, Spa)**

Undergraduate medical school training in psychoactive drugs and rational prescribing in the United Kingdom. Falkowski J, et al. **Br J Addict** 1989 Dec;84(12):1539–42

Modelling medical decision-making under uncertainty. Boreham NC. **Br J Educ Psychol** 1989 Jun;59 (Pt 2):187–99

Can communication skills be taught? Maguire P. **Br J Hosp Med** 1990 Mar;43(3):215–6

End-user searching in a medical school curriculum: an evaluated modular approach. Bradigan PS, et al. **Bull Med Libr Assoc** 1989 Oct;77(4):348–56

Radiology seminars using teaching kits. Munro TG. **Can Assoc Radiol J** 1989 Oct;40(5):269–71

Do West German medical schools provide a lesson for Canada? Becker WJ. **Can Med Assoc J** 1990 May 1; 142(9):987–9

Educating native MDs: "always go back and serve your people in some larger way". Gilmore A. **Can Med Assoc J** 1990 Jan 15;142(2):160–2

Medical grand rounds: alive and well and living in Canada. McLeod PJ, et al. **Can Med Assoc J** 1990 May 15; 142(10):1053–6

Let's put the teaching of clinical skills where it belongs [editorial] McSherry J. **Can Med Assoc J** 1990 Feb 15; 142(4):386–7

Ranking the MD degree [letter] Warner HA. **Can Med Assoc J** 1989 Oct 1;141(7):657

To teach is our responsibility. Soysa PE. **Ceylon Med J** 1989 Dec;34(4):153–61

Health personnel resources and medical education reform in China. Xu WB, et al. **Chin Med J [Engl]** 1989 Sep; 102(9):655–9

The conviction to care. The McKinney Scholarship Fund. Chang DS. **Conn Med** 1989 Nov;53(11):665–8

Messages in bottles. Massey RU. **Conn Med** 1989 Dec; 53(12):751

Curiosity: an aperitif. Massey RU. **Conn Med** 1990 Jul; 54(7):405

DIMER [editorial] Martz EW. **Del Med J** 1990 Mar; 62(3):891–2, 895

Achieving high quality in slide production for medical education. Sawyer R, et al. **Entechnology** 1989 Sep;:32–8

Teaching medical students about epilepsy. Mason C, et al. **Epilepsia** 1990 Jan–Feb;31(1):95–100

Computer-assisted curriculum for medical students on early diagnosis of substance abuse. Brown RL, et al. **Fam Med** 1990 Jul–Aug;22(4):288–92

Reflections on mentoring [editorial] Colwill JM. **Fam Med** 1990 May–Jun;22(3):181

A comparison of the modified essay question and multiple choice question formats: their relationship to clinical performance. Rabinowitz HK, et al. **Fam Med** 1989 Sep–Oct;21(5):364–7

List of available training programs. **Gastroenterology** 1990 Aug;99(2):571–601

Teaching gastrointestinal endoscopy by computer simulation: a prototype for colonoscopy and ERCP. Williams CB, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):49–54

South-east Scotland revisited. Wakefield IR. **Health Bull (Edinb)** 1989 Mar;47(2):85–7

Some aspects of the trainee year in south-east Scotland. Wakefield IR. **Health Bull (Edinb)** 1989 Jul;47(4):176–8

Medical uncertainty and the autopsy: occult benefits for students. Anderson RE, et al. **Hum Pathol** 1990 Feb; 21(2):128–35

International medical training. Heimburger RF. **Indiana Med** 1990 Mar;83(3):204–6

Computer-assisted teaching and learning in medicine. Klar R, et al. **Int J Biomed Comput** 1990 Jul;26(1–2):7–27 (37 ref.)

Gross anatomy instruction with diagnostic images. Erkonen WE, et al. **Invest Radiol** 1990 Mar;25(3):292–4

Moshe Prywes, editor-in chief of the Israel Journal of Medical Sciences—laureate of the Israel prize for medicine. The Israel Journal of Medical Sciences celebrates its 25th anniversary. **Isr J Med Sci** 1990 May;26(5):241–2

Ethics and the academic-corporate relationship. Resnick SD. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):293–4

The legacy of the gifted teacher. McGoldrick KE. **J Am Med Wom Assoc** 1989 Nov–Dec;44(6):167

Female graduates of a predominantly black college of medicine: their characteristics and challenges. Titus-Dillon PY, et al. **J Am Med Wom Assoc** 1989 Nov–Dec; 44(6):175–82

AOA research programs and their role in osteopathic medical education. Retz KC. **J Am Osteopath Assoc** 1989 Nov; 89(11):1461–6

Audiovisual resources for learning—a brave new world unrealized? Chessell G. **J Audiov Media Med** 1990 Jan; 13(1):17–9

'Could Olympus affect your life?' Cumpstey M. **J Audiov Media Med** 1989 Jul;12(3):100–2

Fundamentals of video production and script writing. Gilder RS. **J Audiov Media Med** 1989 Jul;12(3):93–5

Construction of clinical algorithms for educational programs. Ambrose RF, et al. **J Cancer Educ** 1989;4(3):161–6

Nutrition and cancer education objectives of the American Association for Cancer Education. Bakemeier RF, et al. **J Cancer Educ** 1989;4(4):241–53

Psychosocial aspects of cancer in adults: implications for teaching medical students. Blanchard CG, et al. **J Cancer Educ** 1986;1(4):237–48 (27 ref.)

Medical students' reactions to a hospice preceptorship. Cassileth BR, et al. **J Cancer Educ** 1989;4(4):261–3

Educational problems of medical students in Turkey. Derman U. **J Cancer Educ** 1989;4(2):85–90

Helping students respond to stressful interactions with cancer patients and their families: a pilot program. Dignan M, et al. **J Cancer Educ** 1989;4(3):179–83

Formulation of teaching/learning objectives useful for the development and assessment of lessons, courses, and programs. Gallagher RE, et al. **J Cancer Educ** 1989; 4(4):231–4

Value of attitude questionnaires for assessing oncology teaching of medical students: experience of Fondation Bergonié, Bordeaux. Hoerni B, et al. **J Cancer Educ** 1989; 4(2):91–5

Extramural training and education programs of the National Cancer Institute. Lepovetsky BC. **J Cancer Educ** 1986; 1(1):13–8

NCI Cancer Education Grant Program: vague promises of nourishment for budding creativity [editorial] McIntyre OR. **J Cancer Educ** 1989;4(2):83–4

The AACE and the GME: potential partners in the quest for quality education [editorial] O'Donnell JF. **J Cancer Educ** 1989;4(3):157–8

Nutrition education curriculum at the University of Nevada School of Medicine. St. Jeor ST, et al. **J Cancer Educ** 1989; 4(4):235–40

The development of "coordinating councils" for cancer education in Europe, Latin America, and the Asian-Pacific region. Sherman CD Jr. **J Cancer Educ** 1988;3(2):91–5

Education and hospice care [letter] Smith JL. **J Cancer Educ** 1989;4(3):198–9

Care of the patient with advanced cancer: a course for clinical medical students at Oxford. Stedeford A, et al. **J Cancer Educ** 1989;4(2):103–8

Educational role of cancer pain rounds. Weissman DE, et al. **J Cancer Educ** 1989;4(2):113–6

Clinical pharmacology and therapeutics in primary care: an elective for fourth-year medical students. Ellison MJ, et al. **J Clin Pharmacol** 1990 Jun;30(6):489–93

Nutrition in the curriculum: medical experience. Shils ME. **J Dent Educ** 1990 Aug;54(8):502–5; discussion 519–20 (5 ref.)

The learning-disabled medical student [see comments] Accardo P, et al. **J Dev Behav Pediatr** 1989 Oct;10(5):253–8 Comment in: J Dev Behav Pediatr 1990 Apr;11(2):103.

Animal procedure laboratory surveys: use of the animal laboratory to improve physician confidence and ability. Olshaker JS, et al. **J Emerg Med** 1989 Nov–Dec;7(6):593–7

Recall by expert medical practitioners and novices as a record of processing attention. Norman GR, et al. **J Exp Psychol [Learn Mem Cogn]** 1989 Nov;15(6):1166–74

Clinical epidemiology fulfills critical need for physicians [letter] Davidson RA. **J Fla Med Assoc** 1989 May;76(5):444

Bedside case presentation in the ambulatory setting [letter; comment] Wofford JL, et al. **J Gen Intern Med** 1990 Mar–Apr;5(2):181–2 Comment on: J Gen Intern Med 1989 Jul–Aug;4(4):284–7.

Advanced medical ethics symposia for fifth-year students. Grant VJ. **J Med Ethics** 1989 Dec;15(4):200–2

Medical education and the role of computers—as seen through the eyes of a medical student. West SA. **J Med Syst** 1989 Oct;13(5):237–41

Disproportionate health risks in minorities: does medical education need to change? [editorial] Jones B. **J Natl Med Assoc** 1990 Jun;82(6):395–6

Further reflections on a racial view of medical education [editorial] Peniston RL. **J Natl Med Assoc** 1990 May; 82(5):325–7

Recognition of the plight of minorities in the educational process and health care system. Pinn-Wiggins VW. **J Natl Med Assoc** 1990 May;82(5):333–5

Thomas P. Haynie, MD, honored as distinguished educator. Tilyou SM. **J Nucl Med** 1990 Jul;31(7):20A–21A

Terminal care and the continuing need for professional education. Scofield GR. **J Palliat Care** 1989 Sep;5(3):32–6

The education of scientific physicians. Stevenson DK. **J Perinatol** 1989 Dec;9(4):442–3

Comparison of the workload of a trainer and trainee [letter; comment] Chew C, et al. **J R Coll Gen Pract** 1989 Oct; 39(327):431–2 Comment on: J R Coll Gen Pract 1989 Aug;39(325):320–3.

Compulsory audit projects for medical students [letter] [see comments] Neville RG, et al. **J R Coll Gen Pract** 1989 Oct;39(327):430 Comment in: J R Coll Gen Pract 1989 Dec;39(329):520.

Facilitating a trainee collaborative study. Timmins DJ, et al. **J R Coll Gen Pract** 1989 Oct;39(327):423–4

Trainee exchanges [letter] Woodhouse J. **J R Coll Gen Pract** 1989 Oct;39(327):430

Teaching genetics to medical students. Report of a Working Party of the Clinical Genetics Committee of the Royal College of Physicians. **J R Coll Physicians Lond** 1990 Apr; 24(2):80–4

'We'd like to have a family'—young women doctors' opinions of maternity leave and part-time training. Warren VJ, et al. **J R Soc Med** 1989 Sep;82(9):528–31

Cancer education in Latin America. Caceres E. **J Surg Oncol** 1990 Aug;44(4):201–4

Present situation of Chinese acupuncture and moxibustion education and its prospective strategy. Fu S. **J Tradit Chin Med** 1990 Mar;10(1):3–5

Documents. Barton A. **JAMA** 1989 Nov 3;262(17):2470

MD-PhD programs: at a crossroads? Cantor MD. **JAMA** 1990 Feb 2;263(5):755–6

Medical education and resident work hours. Giardino AP, et al. **JAMA** 1990 Feb 2;263(5):620

The clinician-researcher's unique perspective. Hornyak TJ. **JAMA** 1990 Feb 2;263(5):756

Evaluating the effect of a human values seminar series on ethical attitudes toward resuscitation among pediatric residents. Berseth CL, et al. **Mayo Clin Proc** 1990 Mar; 65(3):337–43

To be educated or to be trained? [editorial] DeRemee RA. **Mayo Clin Proc** 1989 Aug;64(8):1022–3

Once you start studying medicine... [editorial] Knox FG. **Mayo Clin Proc** 1989 Aug;64(8):1024–5

Crisis in medical education? [editorial] Palumbo PJ. **Mayo Clin Proc** 1989 Aug;64(8):1021

A computerized simulator for critical-care training: new technology for medical education. Saliterman SS. **Mayo Clin Proc** 1990 Jul;65(7):968–78

Education of medical students: present innovations, future issues. Stillman PL, et al. **Mayo Clin Proc** 1989 Sep; 64(9):1175–9

Medicine in the Soviet Union. De Lawter HR. **Md Med J** 1989 Dec;38(12):1075

ASME scientific meeting. Association for the Study of Medical Education. Glasgow, 22 September 1989. Abstracts. **Med Educ** 1990 Mar;24(2):181–4

Relevance and resources in medical education: an African view. Archampong EQ. **Med Educ** 1990 Jan;24(1):6–10

Helping students with learning difficulties in medical and health-care education. Coles CR. **Med Educ** 1990 May; 24(3):300–12

The observation of educational events. Fleming WG. **Med Educ** 1990 Mar;24(2):190–203

Research in medical education in the UK. Grant J. **Med Educ** 1990 Mar;24(2):185–7

Essentials of problem-based learning. Walton HJ, et al. **Med Educ** 1989 Nov;23(6):542–58

Medical education in palliative care. Buchanan J, et al. **Med J Aust** 1990 Jan 1;152(1):27–9

Some solutions to the shortage of general practitioners in rural Australia. Part 1. Medical school selection. Kamien M, et al. **Med J Aust** 1990 Jul 16;153(2):105–7

Drug and alcohol medical education in Australia: on the map at last [letter] Roche AM. **Med J Aust** 1990 May 7; 152(9):503

An introduction to the consultation: a brief teaching method and its evaluation. Mansfield F. **Med Teach** 1989; 11(2):225–7

Effective in-training evaluation. Maudsley RF. **Med Teach** 1989;11(3–4):285–90

What is . . . concept mapping? Watson GR. **Med Teach** 1989; 11(3–4):265–9

Medical informatics and education. **Methods Inf Med** 1989 Nov;28(4):187–372

New media in medical education. Ackerman MJ. **Methods Inf Med** 1989 Nov;28(4):327–31

"Desktop knowledge": a new focus for medical education and decision support. Greenes RA. **Methods Inf Med** 1989 Nov;28(4):332–9

Crisis of meaning and medical informatics education: a burden and/or a relief? Grémy F. **Methods Inf Med** 1989 Nov;28(4):189–95

Description of a blockcourse in medical informatics. Hasman A. **Methods Inf Med** 1989 Nov;28(4):239–42

Teaching medical informatics to medical students in the Federal Republic of Germany. Michaelis J. **Methods Inf Med** 1989 Nov;28(4):234–8

Use of the Quick Medical Reference (QMR) program as a tool for medical education. Miller RA, et al. **Methods Inf Med** 1989 Nov;28(4):340–5

The status of medical informatics in Canadian medical schools. Protti DJ. **Methods Inf Med** 1989 Nov;28(4):223–6

Some comments on teaching biostatistics in medical and health sciences. Sahai H. **Methods Inf Med** 1990 Jan; 29(1):41–3

Medical education system in Czechoslovakia: achievements and perspectives of medical informatics education. Zvárová J, et al. **Methods Inf Med** 1989 Nov;28(4):246–9

Views from the schools of medicine: the community dimension of medical education. Anlyan W, et al. **N C Med J** 1989 Dec;50(12):666–70

Experiences with community based medical education: a preceptor's view. Chambliss J. **N C Med J** 1989 Dec; 50(12):683–4

Medical education, teaching and research in the community setting: the full-time AHEC faculty. Rogers CS, et al. **N C Med J** 1989 Dec;50(12):681–2

Reflections of a former student, AHEC resident, and now rural practitioner. Snider ST. **N C Med J** 1989 Dec; 50(12):685–6

Current issues in community based medical education. Williams WT Jr. **N C Med J** 1989 Dec;50(12):677–9

A New York initiative in medical education. Verby JE, et al. **N Y State J Med** 1989 Nov;89(11):618–20

Teaching the history of medicine [letter; comment] McCune SK. **Pharos** 1989 Fall;52(4):31–2 Comment on: Pharos 1989 Summer;52(3):12–6.

Insights into some aspects of clinical education—II. A theory for clinical education. Balla JI. **Postgrad Med J** 1990 Apr; 66(774):297–301

The relevance of anatomy and morbid anatomy for medical practice and hence for postgraduate and continuing medical education of doctors. Crisp AH. **Postgrad Med J** 1989 Apr; 65(762):221–3

Influence of a preventive care educational intervention on physician knowledge, attitudes, beliefs, and practice. Rich EC, et al. **Prev Med** 1989 Nov;18(6):847–55

Business and managerial education in the medical school curriculum. Wholey MH, et al. **South Med J** 1990 Feb; 83(2):204–6

On medical education. Roddie IC. **Trans Med Soc Lond** 1987–88;104:89–94

Ignorance—inevitable but invigorating [editorial; comment] Moser RH. **West J Med** 1990 Jul;153(1):76–7 Comment on: West J Med 1990 Jul;153(1):17–23.

Medical ignorance, AIDS–Kaposi's sarcoma complex, and the lymphatic system [see comments] Witte MH, et al. **West J Med** 1990 Jul;153(1):17–23 Comment in: West J Med 1990 Jul;153(1):76–7.

[Where will the future doctors and specialists be trained?] de Kock ML. **S Afr Med J** 1990 Jun 2;77(11):554–5 (Afr)

[Medical education and postgraduate training in Nottingham] Anděl M. **Cas Lek Cesk** 1989 Sep 1;128(36):1144–5 (Cze)

[Modern education in biology at Czechoslovak medical schools and its perspectives] Stark O. **Cas Lek Cesk** 1989 Aug 4;128(32):1021–2 (Cze)

[Specialization training in social medicine and the organization of health care] Elterlein E, et al. **Cesk Zdrav** 1989 Aug;37(8–9):391–402 (Eng. Abstr.) (Cze)

[Let us create better conditions for the practice of acute medicine] Hájek M. **Cesk Zdrav** 1990 Apr;38(4):180–1 (Cze)

[Experiences with computer simulation of (ENT) patients (published erratum appears in Ned Tijdschr Geneeskd 1990 May 12;134(19):984)] van Rijn AJ, et al. **Ned Tijdschr Geneeskd** 1990 Apr 14;134(15):772–5 (Dut)

[Exchanges of medical students from Rennes/Erlangen–Nuremberg: various considerations on these exchanges within the E.E.C. framework] Bourguet J, et al. **Bull Acad Natl Med** 1990 Mar;174(3):337–43; discussion 343 (Eng. Abstr.) (Fre)

[Graphic informatics and medical education. Computer assisted education. Application to the teaching of sphenoid bone anatomy] Constantin B, et al. **Bull Assoc Anat (Nancy)** 1989 Dec;73(223):15–7 (Eng. Abstr.) (Fre)

[Teaching of radiology] Laval-Jeantet M. **J Radiol** 1989 Nov; 70(11):599–600 (Fre)

[The university and general medicine (editorial)] Perrenoud JP. **Schweiz Rundsch Med Prax** 1989 Nov 21;78(47):1305–6 (Fre)

[Use of personal computers in physiology education] Illert M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:267–8 (Ger)

[Psychosomatic medicine in dermatologic education] Bosse K, et al. **Hautarzt** 1990 Jun;41(6):302–4 (Eng. Abstr.) (Ger)

[New program of the German Academy of Developmental Rehabilitation] Moll H. **Monatsschr Kinderheilkd** 1990 May;138(5):294 (Ger)

[Education in public health—an Italian model] Halfar B. **Off Gesundheitswes** 1989 Nov;51(11):719–22 (Ger)

[A new training method—20 years of student Balint groups] Luban-Plozza B. **Schweiz Rundsch Med Prax** 1989 Oct 24; 78(43):1192–6 (Eng. Abstr.) (Ger)

[Physician consultation: a main medical factor] Barolin GS. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):469–76 (Eng. Abstr.) (Ger)

[Education, graduate and continuing education] Baumgarten R. **Z Arztl Fortbild (Jena)** 1989;83(22):1095–6 (Ger)

[Responsibilities and functions of psychotherapy and medical psychology in the development of comprehensive biosocial thinking in medicine] Geyer M. **Z Arztl Fortbild (Jena)** 1989;83(18):921–4 (Ger)

[Comments on the contribution: Dermatologic fitness studies of candidates of medical specialty school occupations by J. Meyer and K. Linsel] Rothe A, et al. **Z Gesamte Hyg** 1990 Apr;36(4):224–5 (Ger)

[Sex specific stress reactions in students during final examinations] Scheuch K. **Z Gesamte Hyg** 1989 Dec; 35(12):699–702 (Eng. Abstr.) (Ger)

[Objective structured clinical examination: a tool for evaluation and for teaching] Ber R, et al. **Harefuah** 1990 Apr 15;118(8):486–9 (Heb)

[The question of teaching Latin at medical schools (letter)] Goldmann L. **Orv Hetil** 1989 Dec 17;130(51):2769 (Hun)

[The teaching of ethics at medical schools in Israel] Szenesi K, et al. **Orv Hetil** 1990 Jul 1;131(26):1428–30 (Hun)

[Education of thoracic surgeons—problems and solutions] **Nippon Kyobu Geka Gakkai Zasshi** 1989 May;37(5):959–72 (Jpn)

[Education in medicine. II] Ruzyllo E. **Wiad Lek** 1990 Feb 1–15;43(3–4):156–61 (Pol)

[Methodologic inconsistency in anamnesis education at medical schools] Zago MA. **AMB Rev Assoc Med Bras** 1989 Mar–Apr;35(2):79–80 (Eng. Abstr.) (Por)

[Brazil: the curriculum and medical practice] Nardi AE. **Educ Med Salud** 1989 Oct–Dec;23(4):354–62 (Por)

[The teaching of leprosy in medical schools] Opromolla DV. **Hansenol Int** 1988 Dec;13(2):27–33 (Eng. Abstr.) (Por)

[Development of a moral consciousness in medical schools] Vykydal M, et al. **Acta Univ Palacki Olomuc Fac Med** 1989; 122:413–9 (Eng. Abstr.) (Rus)

[The use of the class of KUVT–86 computers for examination of pathologic anatomy] Ptashekas RS, et al. **Arkh Patol** 1989;51(9):67–9 (Eng. Abstr.) (Rus)

[Psychological aspects of training hygienist and epidemiologist physicians] Seliuzhitskii GV, et al. **Gig Sanit** 1990 Apr;(4):21–3 (Rus)

[3-step summary control of students' knowledge concerning a course on general surgery] Chernov VN, et al. **Klin Khir** 1990;(5):30–1 (Rus)

[Reverting to the traditions of the native school. Role of the academic case report in preparation of physicians-surgeons] Ivashchenko VV, et al. **Klin Khir** 1990;(5):31–2 (Rus)

[Training of students of the therapeutic department in the prevention of internal diseases: methodological and organizational approaches] Merzon AK, et al. **Klin Med (Mosk)** 1990 Mar;68(3):148–51 (Rus)

[The subject of history of medicine as seen by students] Chulkina EI, et al. **Sov Zdravookhr** 1989;(11):42–3 (Rus)

[The system of physician training in Great Britain] Sokhin AA. **Sov Zdravookhr** 1989;(12):54–8 (Rus)

[Preparation of medical students and physicians teaching health education] Beniak M, et al. **Bratisl Lek Listy** 1989 Nov;90(11):861–4 (Eng. Abstr.) (Slo)

[Mexico: comparative evaluation of 2 projects in medical education. Follow-up of graduates] Antonio Moreno J, et al. **Educ Med Salud** 1989 Oct–Dec;23(4):363–75 (Spa)

[Bolivia: the work situation of medical doctors graduating from the medical school of La Paz and Cochabamba between 1981 and 1985] Fernández O, et al. **Educ Med Salud** 1989 Oct–Dec;23(4):391–401 (Spa)

[Student evaluation of the professor's performance and its effects on teaching effectiveness] Varela-Rueda CE. **Gac Med Mex** 1989 May–Jun;125(5–6):151–9; discussion 160 (Eng. Abstr.) (Spa)

[The rational use of medications] García Alonso F. **Med Clin (Barc)** 1990 Apr 28;94(16):628–32 (21 ref.) (Spa)

[Role of the primary health care in the context of medical teaching (letter)] González López E, et al. **Med Clin (Barc)** 1989 Dec 2;93(18):716 (Spa)

[The environment of medical teaching (editorial)] Matorras R. **Med Clin (Barc)** 1989 Jul 1;93(5):175–7 (Spa)

[Participation of primary health care in medical education (letter)] Matorras R. **Med Clin (Barc)** 1990 Feb 3; 94(4):155–6 (Spa)

[The Edinburgh Declaration] **Rev Med Chil** 1988 Oct; 116(10):1075–6 (Eng. Abstr.) (Spa)

[The Edinburgh Declaration] Goić A. **Rev Med Chil** 1989 Jan;117(1):78–80 (Eng. Abstr.) (Spa)

[The CHAD project: society-oriented medical education in India] Andréasson S. **Lakartidningen** 1990 Feb 21; 87(8):545–6 (Swe)

[The ethics of clinical training—must patients cooperate?] Johansson E, et al. **Lakartidningen** 1990 Apr 4; 87(14):1168–70 (Swe)

[Homeopathy must be made a university subject] Johansson T. **Lakartidningen** 1990 Mar 14;87(11):829; discussion 829–30 (Swe)

[Basic education in geriatrics is still unequally distributed in Scandinavia] Steen B. **Nord Med** 1990;105(4):124–5 (Eng. Abstr.) (Swe)

ECONOMICS

Costs associated with ambulatory care and education. Lee D, et al. **Acad Med** 1989 Oct;64(10 Suppl):S44–50

The loss of a generation [editorial] Shore MF. **Am J Orthopsychiatry** 1990 Jul;60(3):322

University hospitals and the NHS review [letter; comment] Murphy E. **BMJ** 1990 Feb 24;300(6723):538 Comment on: BMJ 1990 Jan 20;300(6718):138–9.

Effects of NHS reorganization on teaching and research. France C. **J R Coll Physicians Lond** 1990 Apr;24(2):74–5

Medical education programs sponsored by government agencies. **JAMA** 1990 Aug 15;264(7):851–6

The debt and the cash flow of residents: II. And now for the future: the end of HEAL? [letter] Walden TL Jr. **JAMA** 1990 Sep 12;264(10):1249–50

Medicine as a career: choices and consequences. Eschenbach K, et al. **Theor Med** 1989 Sep;10(3):217–29

HISTORY

Development of medical education in China. Deng YZ. **Acad Med** 1990 Aug;65(8):512–4

Role models in the education of surgeons. Hermann RE. **Am J Surg** 1990 Jan;159(1):2–7

Barbers and porters: commencement of academic anaesthesia in Australia. Joseph D. **Anst N Z J Surg** 1990 Jun; 60(6):475–9

The early medical studies and practice of Dr. David Hartley. Webb ME. **Bull Hist Med** 1989 Winter;63(4):618–36

The Royal College of Surgeons of England. Todd IP. **Chirurgia** 1989;115(9):621–3

History of osteopathic medical education accreditation. **J Am Osteopath Assoc** 1989 Nov;89(11):1433–4

The American Association for Cancer Education: 40 years of Civic Engineering in cancer. Hill GJ. **J Cancer Educ** 1987;2(2):83–8

Abraham Flexner and the historians. Bonner TN. **J Hist Med Allied Sci** 1990 Jan;45(1):3–10

Literacy and the Hippocratic art: reading, writing, and epistemology in ancient Greek medicine. Miller GL. **J Hist Med Allied Sci** 1990 Jan;45(1):11–40

Humanities in medical education: some contributions. Clouser KD. **J Med Philos** 1990 Jun;15(3):289–301

Medical education in the later 19th century: the science take-over. Youngson AJ. **Med Educ** 1989 Nov;23(6):480–91

Abraham Flexner as critic of British and Continental medical education. Bonner TN. **Med Hist** 1989 Oct;33(4):472–9

The goal. 1967 [classical article] Popper H, et al. **Mt Sinai J Med** 1989 Oct;56(5):351–5

Perspectives on women physicians in New York State: past, present, and future. Santilli VC. **N Y State J Med** 1990 Jun;90(6):317–21

Women in medicine since Flexner. Walsh MR. **N Y State J Med** 1990 Jun;90(6):302–8

The evolution of Oregon's Public Psychiatry Training Program. Bloom JD, et al. **New Dir Ment Health Serv** 1989 Winter;(44):113–22

Twenty-five years of medical graduates in Papua New Guinea. Biddulph J. **P N G Med J** 1990 Mar;33(1):43–9

The French Revolution and the dilemma of medical training. Astrow AB. **Perspect Biol Med** 1990 Spring;33(3):444–56

How we got here: case report from the class of 1904. McGuire LB. **Va Med** 1990 May;117(5):216–9

[Respiration and the body in family and academic medicine in early modern times] Hartmann F. **Pneumologie** 1990 Feb; 44 Suppl 1:91–105 (Ger)

[Hering, Vintschgau and the problem of Purkinje's succession] Sablik K. **Sudhoffs Arch** 1989;73(1):78–87 (Eng. Abstr.) (Ger)

[A new orientation in surgical education in Berlin at the turn of the 18th to the 19th century] Luther B, et al. **Z Gesamte Hyg** 1989 Dec;35(12):746–50 (Eng. Abstr.) (Ger)

[Halle physicians as historians and specialty chronologists. VI. From the early memoir literature] Kaiser W. **Z Gesamte Inn Med** 1990 Mar 15;45(6):166–71 (Eng. Abstr.) (Ger)

[Halle physicians as historical witnesses and specialty chronologists. III. The life recollections of the Halle physician Heinrich Hoffmann (1809–1894) in the context of autobiographies by his contemporaries] Völker A. **Z Gesamte Inn Med** 1989 Oct 1;44(19):593–600 (Eng. Abstr.) (Ger)

[100 years ago: landmarks in the medical education of women] Völker A. **Z Gesamte Inn Med** 1989 Aug 1; 44(15):452–6 (Eng. Abstr.) (Ger)

[Development of the regional society in the Dresden and Cottbus area and its current scientific contribution] Radzuweit H, et al. **Zentralbl Gynakol** 1990;112(10):641–4 (Ger)

[The origins of medical education in Finland (1640–1830)] Józsa L. **Orv Hetil** 1989 Oct 15;130(42):2263–4 (Hun)

[The Doctoris Medicinae Universae (Doctor of General Medicine) diploma from the year 1892] Piaseczyńska T, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1985; 40:331–4 (Eng. Abstr.) (Pol)

[50-year evolution of medical reflection in Poland] Nielubowicz J. **Pol Tyg Lek** 1990 Jan 1–15;45(1–3):5–9 (Pol)

[Motives and intentions of jubilee celebrations on the occasion of the 200th anniversary of medical education in Warsaw (editorial)] Pruszyński B. **Pol Tyg Lek** 1990 Jan 1–15;45(1–3):3–4 (Pol)

[Various aspects of military dermatology in the light of 180 years of academic medical education in Warsaw] Lańcucki J, et al. **Przegl Dermatol** 1989 May–Jun;76(3):194–207 (Pol)

[On the 180th anniversary of medical education in Warsaw] Pruszyński B. **Przegl Dermatol** 1989 May–Jun;76(3):177–9 (Pol)

[Academic teaching of dermatology and venereology in Warsaw 1869–1939] Śródka A. **Przegl Dermatol** 1989

May-Jun;76(3):188–93 (Pol)
[Underground medical studies in Wilno (1940–1941)] Zablotniak R. **Przegl Lek** 1990;47(1):135–8 (Pol)
[S.P. Botkin and current medical problems] Komarov FI. **Klin Med (Mosk)** 1989 Dec;67(12):4–8 (Rus)
[L.V. Gromashevskil and the beginnings of training in epidemiology in the USSR] Gol'd Elu. **Sov Med** 1990; (3):118–21 (Rus)
[Analysis of the anesthesiology doctoral theses in Cadiz during the Six-Year Revolution] Márquez Espinós C, et al. **Rev Esp Anestesiol Reanim** 1989 Sep–Oct;36(5):276–81 (Eng. Abstr.) (Spa)

LEGISLATION & JURISPRUDENCE

Conclusions concerning the round table on "Medical education in Italy and in the EEC countries". Sangiorgi M, et al. **Ann Ital Med Int** 1986;1 Suppl 1:52–3
Medical licensure: let's not lose sight of the objective. Maudsley RF. **Can Med Assoc J** 1990 Jul 15;143(2):98–100
[Medical graduate and basic education in Austria: emergency or surplus? Objective evaluation or bureaucratic regimentation?] Barolin GS. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):455–60 (Eng. Abstr.) (Ger)
[A report on implementing social health clinical patient studies by medical students in the 4th year of study] Akkermann S, et al. **Z Gesamte Hyg** 1989 Jun;35(6):383–4 (Ger)
[Physicians in the State of São Paulo: how many and what kind?] Faria SL. **Rev Paul Med** 1989 May–Jun;107(3):183–5 (Por)

MANPOWER

The Century Club: a model for staff-supported medical education. Meyer CT. **J Am Osteopath Assoc** 1990 May; 90(5):439–45

METHODS

Teaching risk-factor counseling skills to medical students, house staff, and fellows. Ockene JK, et al. **Am J Prev Med** 1990;6(2 Suppl):35–42
Case-based tutoring from a medical knowledge base. Chin HL, et al. **Comput Methods Programs Biomed** 1989 Oct–Nov;30(2–3):185–98
A computer-assisted, interactive radiology learning program. Goldberg HI, et al. **Invest Radiol** 1990 Aug;25(8):947–51
The ailments of cancer registries: a proposal for remedial education. Joishy SK, et al. **J Cancer Educ** 1989;4(1):17–31
Circular random case analysis [letter] Davies HM. **J R Coll Gen Pract** 1989 Jun;39(323):257–8
America through the looking glass: 1, Medical student years. Richards P. **Lancet** 1990 Sep 29;336(8718):794–6
Education of the physician in child abuse. Alexander RC. **Pediatr Clin North Am** 1990 Aug;37(4):971–88 (31 ref.)
[The Health University in Ostergötland. Planning and realization of medical education] Bergdahl B, et al. **Lakartidningen** 1990 Jul 11;87(28–29):2317–21 (Swe)
[The lecture is an economical and entertaining form of teaching] Rössner S, et al. **Lakartidningen** 1990 Jan 24; 87(4):209–10, 212 (Swe)

ORGANIZATION & ADMINISTRATION

Specialized medical education in the European Region. EURO Reports and Studies 112. **EURO Rep Stud** 1989; (112):1–256
Integration of medical informatics with other courses in the medical curriculum. Tuinstra CL. **Methods Inf Med** 1989 Nov;28(4):243–5
[Problems in the current education and training system for occupational health physicians in Japan and strategies to solve them] Okubo T. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):269–82 (Eng. Abstr.) (Jpn)

STANDARDS

The mismeasure of medical education. Anderson ND. **Acad Med** 1990 Mar;65(3):159–60 (8 ref.)
The measurement of outcomes in the assessment of educational program effectiveness. Kassebaum DG. **Acad Med** 1990 May;65(5):293–6
Academic medicine and the National Board: a love-hate relationship? [editorial] Stemmler EJ. **Acad Med** 1990 Jun; 65(6):380–1
Priorities for nutrition content in a medical school curriculum: a national consensus of medical educators. Weinsier RL, et al. **Am J Clin Nutr** 1989 Oct;50(4):707–12
Men without chests. Maxwell JH. **Am J Obstet Gynecol** 1990 Jun;162(6):1499–501
The Preventive Cardiology Academic Award program: a focus on physician education. Stone EJ. **Am J Prev Med** 1990;6(2 Suppl):6–13
Loss of skepticism in medical education [editorial] Alpert JS, et al. **Arch Intern Med** 1989 Dec;149(12):2637–8
Training and practice activities of hematology and medical oncology diplomates. Shea JA, et al. **Arch Intern Med** 1990 Jan;150(1):145–8
Impact of the White Paper on teaching and training [editorial] Crown JM. **Br J Hosp Med** 1990 Mar;43(3):169
A systematic approach to developing a diploma examination in sports medicine. Jean P, et al. **Can J Sport Sci** 1989 Dec;14(4):194–6
Diploma in sports medicine [editorial] Shephard RJ. **Can J Sport Sci** 1989 Dec;14(4):193
Standardized testing of patient management skills. A computer-based method. Volle RL. **Clin Orthop** 1990 Aug; (257):47–51
Medical education: a neglectful and abusive family system. McKegney CP. **Fam Med** 1989 Nov–Dec;21(6):452–7
Pulmonary training facilities in medical colleges in India. Jindal SK. **Indian J Chest Dis Allied Sci** 1989 Oct–Dec; 31(4):295–8
Lecture skills in medical education. Golden AS. **Indian J Pediatr** 1989 Jan–Feb;56(1):29–34
Medical education: time for change—yes—but.... Pellegrino ED. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:55S–63S
Challenging issues facing medical education. Petersdorf RG. **J Cancer Educ** 1988;3(2):79–87
To what degree can we change our future? [letter; comment] **J Oral Maxillofac Surg** 1989 Oct;47(10):1124–6 Comment on: J Oral Maxillofac Surg 1989 Jun;47(6):553.
The double-degree debate continues [letter] **J Oral Maxillofac Surg** 1989 Oct;47(10):1123–4
General surgery training in double-degree programs [letter] Chuong R. **J Oral Maxillofac Surg** 1990 Feb;48(2):222
An estimable legacy. Martini CJ. **JAMA** 1990 Aug 15; 264(7):795–7
Medical ethics education in the eighties: a study of five medical schools. Figueroa DE. **Med Teach** 1989; 11(2):177–85
Do you know? An opportunity to assess how up-to-date you are with the medical education literature. Harden RM. **Med Teach** 1989;11(2):233–6
What is ... normative versus criterion-referenced assessment. Turnbull JM. **Med Teach** 1989;11(2):145–50
The first private medical faculty in the Federal Republic of Germany: University of Witten/Herdecke. Wiedersheim R. **Med Teach** 1989;11(2):221–4
The National Board Examination (Part I) as a performance measurement tool. One student's perspective. Adams RS. **N C Med J** 1990 Jul;51(7):353–6
Musings for modern MDs: 1989 Whitehead lecture. Fletcher SW. **N C Med J** 1990 May;51(5):198–203
[How can medical teaching worsen?] Heiska V. **Duodecim** 1989;105(20):1684–6 (Fin)
[How is medical teaching made worse?] Pelkonen R. **Duodecim** 1989;105(19):1623–6 (Fin)
[Students of Trondheim—10 years after. Former students' evaluation of the curriculum in Trondheim] Midelfart A, et al. **Tidsskr Nor Laegeforen** 1990 May 30;110(14):1861–4 (Eng. Abstr.) (Nor)
[Medical education. I] Ruzyłło E. **Wiad Lek** 1989 Oct 1–Nov 1;42(19–21):1073–9 (Pol)
[Who will teach physicians' teacher?] Shchulipenko IM. **Klin Med (Mosk)** 1989 Nov;67(11):137–40 (Eng. Abstr.) (Rus)
[A treatise on delivering a lecture] Poliakov VA. **Ortop Travmatol Protez** 1989 Jul;(7):57–60 (Rus)
[Improvement in the clinical training of students at medical institutes] Shchulipenko IM. **Vrach Delo** 1989 Sep;(9):117–9 (Rus)
[Requirements for university teaching at hospitals (I)] Bosch Domènech A, et al. **Med Clin (Barc)** 1990 Feb 24; 94(7):266–70 (21 ref.) (Spa)

STATISTICS & NUMERICAL DATA

A study of ambulatory care education in medical schools and U.S. Department of Veterans Affairs health care facilities. Robbins AS, et al. **Acad Med** 1989 Oct;64(10 Suppl):S1–4

TRENDS

Implementing nutrition into the medical curriculum: a user's guide. Kushner RF, et al. **Am J Clin Nutr** 1990 Aug; 52(2):401–3
Controlled change in pathology [editorial] Lockard WT Jr. **Am J Clin Pathol** 1989 Oct;92(4 Suppl 1):S1
Specialty training in clinical medicine. Langsley DG. **Am J Hosp Pharm** 1990 Jan;47(1):105–11
Perspectives on prevention and medical education for the 1990s. Nickens HW, et al. **Am J Prev Med** 1990;6(2 Suppl):1–5
A new breed of psychiatrist? [editorial] Funkenstein DH. **Am J Psychiatry** 1967 Aug;124(2):226–8
The past & future of academic emergency medicine [letter; comment] Schwab RA. **Ann Emerg Med** 1990 May; 19(5):612–3 Comment on: Ann Emerg Med 1989 Aug;18(8):896–7.
Comprehensive health care reform [letter] Klamp D. **Ann Intern Med** 1990 Oct 15;113(8):639
Role of libraries in medical education. Braude RM. **Bull N Y Acad Med** 1989 Jul–Aug;65(6):704–27; discussion 728–38
Physicians of the future [letter] Kelly PF. **Can Med Assoc J** 1989 Dec 15;141(12):1225
Should ethics be added to the core curriculum? [letter] Kleinman D. **Colo Med** 1989 Dec;86(18):377–8
Talking of change. Massey RU. **Conn Med** 1990 May; 54(5):291
The Edinburgh Declaration [editorial] Metcalfe DH. **Fam Pract** 1989 Sep;6(3):165–7
Multiple choice questions: how to construct and how to evaluate? Srinivasa DK, et al. **Indian J Pediatr** 1989 Jan–Feb;56(1):69–74
Re-orientation of medical education in India past, present and future. Poulose KP, et al. **Indian J Public Health** 1989 Apr–Jun;33(2):55–8
A continuing art and growing science. Albanese M, et al. **Iowa Med** 1990 Apr;80(4):176–8
Twenty years of MECO in Iowa. Caplan RM, et al. **Iowa Med** 1990 Apr;80(4):185–7
The Moshe Prywes lecture in medical education. Renewing medical education's social contract. Richards RW. **Isr J Med Sci** 1990 Feb;26(2):97–101
Medical education: time for change. Symposium. October 13, 1989, Lexington, Kentucky. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:1S–65S
Medical education for the twenty-first century. Ebert RH. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:7S–14S
Growth of the teaching nursing home. The Veterans Administration experience. Rubenstein LZ, et al. **J Am Geriatr Soc** 1990 Jan;38(1):73–8
Changing medical education: matching ideals, clinical realities, and financial constraints [editorial; comment] Noble J. **J Gen Intern Med** 1990 Mar–Apr;5(2):179–80 Comment on: J Gen Intern Med 1990 Mar–Apr;5(2):126–31.
1990—a time for change [editorial] Johnston J. **J Miss State Med Assoc** 1990 Jan;31(1):21–2
Diversity in medical education and health care access: after the '80s, what? Pinn-Wiggins VW. **J Natl Med Assoc** 1990 Feb;82(2):89–92
Medical education. Petersdorf RG. **JAMA** 1990 May 16; 263(19):2652–4
The paradigm of medical education—it is time for a change. Beaty HN. **Mayo Clin Proc** 1989 Oct;64(10):1307–10
Medicine's richness: survival of traditions. Brown DM. **Mayo Clin Proc** 1989 Oct;64(10):1303–6
Should we change the medical school curriculum? McPherson JR. **Mayo Clin Proc** 1989 Oct;64(10):1311–4
Education of medical students: present innovations, future issues. Stillman PL, et al. **Mayo Clin Proc** 1989 Sep; 64(9):1175–9
Medical education reform without change [editorial] Swanson AG. **Mayo Clin Proc** 1989 Sep;64(9):1173–4
Medical education reform: what is the goal? [editorial] Whitcomb ME. **Mayo Clin Proc** 1989 Sep;64(9):1170–2
As it happens: conversations overheard in the medical school. **Med Teach** 1989;11(2):237–9
Computers—problems and the future [editorial] **Med Teach** 1989;11(2):135–7
Do you know? An opportunity to assess how up-to-date you are with the medical education literature. Harden RM. **Med Teach** 1989;11(3–4):341–4
The integration of computer conferencing into the medical school curriculum. Ten Haken JD, et al. **Med Teach** 1989; 11(2):213–20
Factors affecting computer-mediated instruction in medical education. Levy AH. **Methods Inf Med** 1989 Nov; 28(4):215–22
Education in medical informatics in The Netherlands: a nationwide policy and the Erasmus curriculum. van Bemmel JH, et al. **Methods Inf Med** 1989 Nov;28(4):227–33
New premises and new tools for medical care and medical education. Weed LL. **Methods Inf Med** 1989 Nov; 28(4):207–14
New pathways in general medical education [letter] **N Engl J Med** 1990 Jul 26;323(4):279–80
The HIV epidemic and training in internal medicine. Challenges and recommendations [see comments] Cooke M, et al. **N Engl J Med** 1989 Nov 9;321(19):1334–8 Comment in: N Engl J Med 1990 May 10;322(19):1392–3.
Primary care in underserved areas and medical education [letter] Garland T. **N Engl J Med** 1990 Mar 8;322(10):703–4
New pathways in general medical education. Tosteson DC. **N Engl J Med** 1990 Jan 25;322(4):234–8
An interview with Nancy E. Gary, MD, a medical school dean [interview by Lillian Gross] Gary NE. **N Y State J Med** 1990 Jun;90(6):321–4
Science in schools and medical education [letter; comment] Barss P. **P N G Med J** 1989 Sep;32(3):225–6 Comment on: P N G Med J 1988 Mar;31(1):1–4.
The health needs of the majority versus the health needs of the individual: the reorganization of medical education in Colombia. Bender DE. **Theor Med** 1989 Sep;10(3):239–49
Academic medicine [letter; comment] Rutberg LD. **West J Med** 1990 Feb;152(2):185 Comment on: West J Med 1989 Oct;151(4):477–8.
On rocks and hard places. Watts MS. **West J Med** 1990 Feb; 152(2):180
[Teaching of internal medicine: first a teaching about relationships (letter)] Dorra M. **Ann Med Interne (Paris)** 1989;140(7):657 (Fre)
[Reform of medical education as an international trend] Dutz W. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):451–4 (Eng. Abstr.) (Ger)
[Future of the surgical department] Okamoto E. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1499–500 (Jpn)
[Basic education in connection with the development of society] Hunskår S. **Tidsskr Nor Laegeforen** 1990 May 30; 110(14):1807–8 (Nor)
[Education of medical students in substance abuse] Kvamme JM, et al. **Tidsskr Nor Laegeforen** 1990 Mar 20;110(8):970–2 (Eng. Abstr.) (Nor)
[Evolution of clinical teaching at the medical college of

Lisboa (I)] da Costa JC. **Acta Med Port** 1990 Mar-Apr; 3(2):109-14 (Eng. Abstr.) (Por)
[Reform of medical education (editorial; comment)] Fernandes FV. **Acta Med Port** 1990 Jan-Feb;3(1):V-VI Comment on: Acta Med Port 1990 Jan-Feb;3(1):39-42. (Por)
[Relation of basic sciences and medicine: institutional, professional and pedagogic implications] Ferreira HG. **Acta Med Port** 1989 Nov;Suppl 2:S3-7 (0 ref.) (Por)
[The relation of basic sciences and medicine: institutional, professional and pedagogic implications (see comments)] Ferreira HG. **Acta Med Port** 1990 Jan-Feb;3(1):39-42 (Eng. Abstr.) Comment in: Acta Med Port 1990 Jan-Feb;3(1):V-VI. (Por)
[Experience with teaching the principles of dietetics at the sanitary hygiene department of the Leningrad Institute of Public Health] Dotsenko VA, et al. **Gig Sanit** 1989 Nov; (11):25-7 (Rus)
[Methodological principles of reorganization of teaching hygiene in medical institutes] Rumiantsev GI, et al. **Gig Sanit** 1989 Nov;(11):23-4 (Rus)
[State and prospects of the development of higher medical and pharmaceutical education in the RSFSR] Mutovin GR, et al. **Sov Med** 1990;(4):3-7 (Rus)
[Current trends in medical training in West European countries] Vartanian FE, et al. **Sov Zdravookkhr** 1989; (8):63-8 (Rus)
[Argentina: curricular transformation] Galli A. **Educ Med Salud** 1989 Oct-Dec;23(4):344-53 (Spa)
[Current trends in medical training] Uribe-Elías R, et al. **Gac Med Mex** 1989 May-Jun;125(5-6):125-44 (39 ref.) (Spa)
[Problem-oriented dermatology teaching—transformed medical education] Anderson C, et al. **Lakartidningen** 1990 Jul 25;87(30-31):2400-1 (Swe)
[Changing medical education. Medical education at the Hälsouniversitet in Ostergötland—background and principles] Bergdahl B, et al. **Lakartidningen** 1990 Jun 20; 87(25):2163, 266-7 (Swe)
[Medical education at the Health University in Ostergötland: contact with patients, the holistic view and the art of conversation] Svedin CG, et al. **Lakartidningen** 1990 Aug 8;87(32-33):2471-3 (Swe)

EDUCATION, MEDICAL, CONTINUING

A bi-national perspective on continuing medical education. Escovitz GH, et al. **Acad Med** 1990 Sep;65(9):545-50
New horizons for research in continuing medical education. Fox RD. **Acad Med** 1990 Sep;65(9):550-5
Using simulated patients to train physicians in sexual risk assessment and risk reduction. Gonzalez-Willis A, et al. **Acad Med** 1990 Sep;65(9 Suppl):S7-8
Effects of a CME program on physicians' transfusion practices. Hull AL, et al. **Acad Med** 1989 Nov;64(11):681-5
A new faculty training model for countries developing academic family medicine programs. Johnson DH, et al. **Acad Med** 1990 May;65(5):346-8
The effect of level of expertise on answer key development. Norcini JJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S15-6
Investigation into the educational process of cancer case conferences. Nyquist JG, et al. **Acad Med** 1990 Sep;65(9 Suppl):S35-6
Teaching old dogs new tricks: using cognitive feedback to improve physicians' diagnostic judgments on simulated cases. Wigton RS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S5-6
Frequency of suicide on Gotland after systematic postgraduate education of general practitioners. Rutz W, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):151-4
Balloon embolization of experimentally created aneurysms: an animal training model. Geremia GK, et al. **AJNR** 1990 Jul-Aug;11(4):659-62
Adolescent health AMA clinical update. Hardiman MA. **Ala Med** 1989 Oct;59(4):31-2
STD prevention and the family physician. Toomey KE. **Am Fam Physician** 1989 Dec;40(6):74-6 (16 ref.)
Survey suggests education objectives to improve practice activities [editorial] Strong WB. **Am J Dis Child** 1990 Sep; 144(9):961-2
Novel program for inservice medical education [letter] Melby MJ, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1769-70
Recertification—by examination or by CEU? [letter] McFarland CR. **Am J Infect Control** 1990 Jun;18(3):222-3
Injury management and the emergency physician [editorial] Martinez R. **Ann Emerg Med** 1990 Jan;19(1):97
Physician education. The challenge of acquired immunodeficiency syndrome. Schwartz JN. **Arch Pathol Lab Med** 1990 Mar;114(3):316-8 (18 ref.)
22nd annual Walter J. Zeiter lecture. Continuing physiatric education and our academy: purpose, past, present, and prospect. Opitz JL. **Arch Phys Med Rehabil** 1990 Mar; 71(3):185-90
Medical education [letter] Connor B. **Aust Fam Physician** 1990 Apr;19(4):600-1
Medical education in the UK [letter] Fisher L, et al. **Aust Fam Physician** 1989 Nov;18(11):1452-3
After Chelmsford: where now for the College? [letter] Russell J, et al. **Aust N Z J Psychiatry** 1990 Mar;24(1):3, 5
Choosing a management course for doctors. Hindle J. **Br J Hosp Med** 1990 May;43(5):363-4
Physician information seeking: improving relevance through research. Gruppen LD. **Bull Med Libr Assoc** 1990 Apr; 78(2):165-72 (42 ref.)
Desirable behaviours in the office management of hypertension addressed through continuing medical education. Jennett PA, et al. **Can J Public Health** 1989 Sep-Oct;80(5):359-62
Priority issues in continuing medical education show sensitivity to change in Canadian health care. Curry L, et al. **Can Med Assoc J** 1990 Feb 15;142(4):299-302
Advanced clinical problems on disk: a software review. Goldman B. **Can Med Assoc J** 1990 May 15;142(10):1122-3
CME: should MDs be forced to go back to school? LeBourdais E. **Can Med Assoc J** 1989 Dec 1;141(11):1181-3
Cardiopulmonary physicians' preferred formats for continuing medical education. Breeling JL, et al. **Chest** 1990 Sep;98(3):746-8
Training in laser bronchoscopy and proposals for credentialing. Kvale PA. **Chest** 1990 Apr;97(4):983-9
Training in liposuction for dermatologists. Newman J. **Dermatol Clin** 1990 Jul;8(3):581-2
The learning needs in diabetes of general practitioners. Marsden P, et al. **Diabetic Med** 1990 Jan;7(1):69-73
Postgraduate training of family doctors in psychiatry (fitting teaching methods to the situation). Enelow AJ. **Dis Nerv Syst** 1967 Jul;28(7 Pt 1):452-4
Using a family systems approach in a balint-style group: an innovative course for continuing medical education. Botelho RJ, et al. **Fam Med** 1990 Jul-Aug;22(4):293-5
The educational opportunities in a departmental program of health care for the homeless. Romero L, et al. **Fam Med** 1990 Jan-Feb;22(1):60-2
Health and psychosocial needs of homeless families: a pilot education and research program. Weinreb L, et al. **Fam Med** 1990 Jan-Feb;22(1):58-9
Effect of a reading list on reading habits of general practitioners [letter] Sullivan FM, et al. **Fam Pract** 1990 Mar;7(1):74
Changing the psychiatric knowledge of primary care physicians. The effects of a brief intervention on clinical diagnosis and treatment. Andersen SM, et al. **Gen Hosp Psychiatry** 1990 May;12(3):177-90
The evolution of a literature search schema for consultation/liaison psychiatry: the database and its computerization. Strain JJ, et al. **Gen Hosp Psychiatry** 1990 Jul;12(4 Suppl):1-53
An ambulatory geriatric evaluation unit in a family geriatric curriculum. Berg-Weger M, et al. **Gerontol Geriatr Educ** 1989;9(4):73-81
Assessment of gerontology certificate program quality: a follow-up study of graduates. Euster GL. **Gerontol Geriatr Educ** 1989;9(4):59-72
Psychiatrists choosing psychoanalytic training at mid-career. Goodwin J, et al. **Hillside J Clin Psychiatry** 1989; 11(1):43-54
National seminar on reducing incidence of cerebral palsy in children. Paul D. **Indian Pediatr** 1989 Sep;26(9):929-31
CME ethics, continued. Caplan RM. **Iowa Med** 1990 Mar; 80(3):135
Reflections on continuing optometric education [editorial] Hale JR. **J Am Optom Assoc** 1990 Feb;61(2):84
Physician awareness of elevated cholesterol. Clearfied MB, et al. **J Am Osteopath Assoc** 1990 Feb;90(2):139-44
AOA continuing medical education. Reuther GA. **J Am Osteopath Assoc** 1989 Nov;89(11):1456-60
AIDS education for the podiatric physician. Evaluating program impact. Holmes CA. **J Am Podiatr Med Assoc** 1990 Jan;80(1):31-5
Guidelines for physician training in fetal echocardiography: recommendations of the Society of Pediatric Echocardiography Committee on Physician Training. Meyer RA, et al. **J Am Soc Echocardiogr** 1990 Jan-Feb; 3(1):1-3
Need for medical oncology chapter [letter] Kumar L. **J Assoc Physicians India** 1990 Mar;38(3):244
Pneumatic otoscopy in the diagnosis of middle ear effusion: the use of video as a teaching aid. Burke P, et al. **J Audiov Media Med** 1989 Jan;12(1):26-8
Development of an educational module for surgical training: a case study. Katzenberg B, et al. **J Audiov Media Med** 1989 Oct;12(4):147-52
The FLEXTRA kit: a model for instructor support materials. Battles JB, et al. **J Biocommun** 1989;16(3):9-13
The professional education program of the American Cancer Society. Fink DJ, et al. **J Cancer Educ** 1986;1(1):19-27
The Physician Data Query (PDQ) cancer information system. Hubbard SM, et al. **J Cancer Educ** 1986;1(2):79-87
Oncology as part of the vocational training of general practitioners in The Netherlands. Schadé E. **J Cancer Educ** 1989;4(2):97-101
Toward the identification of CME content needs for primary care physicians. Williams T, et al. **J Cancer Educ** 1989; 4(4):255-9
A new course for emergency physicians [letter] Zukin D. **J Emerg Med** 1989 Jul-Aug;7(4):413-4
Continuing medical education requirements for hospital medical staffs. Fore RC. **J Med Assoc Ga** 1989 Dec; 78(12):831-3
Staying the distance [editorial] Buckley EG. **J R Coll Gen Pract** 1989 Nov;39(328):441-2
General practitioners and their learning styles. Lewis AP, et al. **J R Coll Gen Pract** 1989 May;39(322):187-9
Continuing medical education [letter] McGhee MF. **J R Coll Gen Pract** 1989 Oct;39(327):432
Continuing educational requirements for general practitioners in Grampian. Shirriffs GG. **J R Coll Gen Pract** 1989 May; 39(322):190-2
Effect of small group education on the outcome of chronic asthma [letter] [see comments] White PT, et al. **J R Coll Gen Pract** 1989 Oct;39(327):430-1 Comment in: J R Coll Gen Pract 1989 Nov;39(328):479.
Advanced trauma life support courses [editorial] Myers RA. **J R Soc Med** 1990 May;83(5):281-2
Coloproctology teaching day in Colchester. Wilson JP. **J R Soc Med** 1990 Jul;83(7):474-5
Educational factors in substance abuse for physicians. Johnson NP, et al. **J S C Med Assoc** 1990 Jan;86(1):64-5
Medical grand rounds and prescribed credit by the American Academy of Family Physicians [see comments] Massengill R Jr, et al. **J Tenn Med Assoc** 1990 Jan;83(1):9-10 Comment in: J Tenn Med Assoc 1990 Jan;83(1):34-5.
From the Agency for Health Care Policy and Research. Clinton JJ. **JAMA** 1990 Apr 25;263(16):2158
Principles of educational outreach ('academic detailing') to improve clinical decision making. Soumerai SB, et al. **JAMA** 1990 Jan 26;263(4):549-56
Relationships between knowledge and experience in the use of disease-modifying antirheumatic agents. A study of primary care practitioners. Stross JK. **JAMA** 1989 Nov 17;262(19):2721-3
Overseas elective in Rwanda. Stephens ST. **Kans Med** 1989 Oct;90(10):273-6, 286
The approaches to learning of specialist physicians. Newble DI, et al. **Med Educ** 1990 Mar;24(2):101-9
Designing a continuing medical education programme in Malaysia based on practitioners' needs. Shahabudin SH. **Med Educ** 1990 May;24(3):264-70
A survey of microsurgery training in the United States. Goossens DP, et al. **Microsurgery** 1990;11(1):2-4
Where to go for management training. Feldman MK. **Minn Med** 1990 Feb;73(2):30, 40
Radiologists as image-makers [interview] Thompson WM. **Minn Med** 1990 Apr;73(4):15-8
The North Carolina Area Health Education Centers Program. **N C Med J** 1989 Dec;50(12):655-716
AMNJ: a commitment to education. Alessi AA, et al. **N J Med** 1989 Sep;86(9):693-6
Down-to-earth medical education. Goodstein RK. **N J Med** 1989 Sep;86(9):709-11
The role of AMNJ [interview] Heitzmann C. **N J Med** 1989 Sep;86(9):699-700
The pharmaceutical industry and CME. Heller R. **N J Med** 1989 Sep;86(9):715-6
The computer connection. Marcus S. **N J Med** 1989 Sep; 86(9):713-4
The academic health center in CME. Moutrie RR, et al. **N J Med** 1989 Sep;86(9):707-8
Hospital medical education. Wang SF, et al. **N J Med** 1989 Sep;86(9):701-2
Medical videos. Glitzy new teaching tools for physician and patient. Athy D. **Ohio Med** 1989 Sep;85(9):707-11
Geriatric educational programs. Aston SJ. **Optom Vis Sci** 1990 May;67(5):329-30 (3 ref.)
American Academy of Pediatrics: PREP statement. **Pediatrics** 1989 Dec;84(6):1116-7
Information in the NHS [editorial] [see comments] **Public Health** 1989 Sep;103(5):329-30 Comment in: Public Health 1990 Jan;104(1):74-5.
Postspecialization continuing training and education. Michener W, et al. **Scand J Gastroenterol Suppl** 1989; 161:36-8; discussion 38-40
Group-based training for general practice in Norway: making a new model work. Westin S, et al. **Scand J Prim Health Care** 1989 Oct;7(3):173-8
The Canadian Academy of Psychiatric Epidemiology: bringing together teachers, researchers and clinicians [editorial] Kates N. **Soc Psychiatry Psychiatr Epidemiol** 1990 May;25(3):115-6
Professional education for evaluating environmental exposure. Young MR, et al. **Wis Med J** 1990 Aug; 89(8):471-2, 474
[Course catalog for 1990] **Ugeskr Laeger** 1990 Jan 8;:1-106 (Dan)
[Preventive health examinations of pregnant women in Denmark. Education, supervision and postgraduate education] Kristensen FB, et al. **Ugeskr Laeger** 1989 Dec 4;151(49):3308-11 (Eng. Abstr.) (Dan)
[Scandinavian postgraduate course in tropical medicine. Copenhagen, 2 October-30 November 1989] Nødgaard H, et al. **Ugeskr Laeger** 1990 Jul 9;152(28):2056-8 (Dan)
[Postgraduate clinical education, tutorship] Rasmussen KJ. **Ugeskr Laeger** 1990 Mar 12;152(11):751-2 (Dan)
[Audio-visual aids and tropical medicine] Morand JJ. **Med Trop (Mars)** 1989 Oct-Dec;49(4):431-2 (Eng. Abstr.) (Fre)
[Plea for the training and continuing education of physicians in biostatistics. Results of a survey among Belgian physicians] D'Hoore W. **Rev Med Brux** 1989 Sep; 10(7):290-8 (Eng. Abstr.) (Fre)
[Transportation of patients in the prehospital phase: education of physicians] Moeschler O, et al. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):178-83 (Eng. Abstr.) (Fre)

[Organization of courses in further education and continuing education as a means of ensuring quality standards] Meyer M. **Anaesthesiol Reanim** 1990;15(2):121–5 (Eng. Abstr.) (Ger)
[Clinical management for medical directors and supervisors—is it necessary?] Helbing G. **Chirurg** 1989 Oct; 60(10):suppl 166–7 (Ger)
[Trauma Management Trainer. Education and training unit for the management of multiple trauma patients] Kanz KG, et al. **Chirurg** 1989 Nov;60(11):821–4 (Ger)
[Endoscopy in the continuing education of surgeons] Manegold BC. **Chirurg** 1989 Nov;60(11):suppl 180–2 (Ger)
[Integration of surgical research into the education and continuing education of the surgeon] Wolner E. **Chirurg** 1990 Apr;61(4):236–9 (8 ref.) (Ger)
[Literature data banks for university education, continuing education and medical research. A report of experiences with the use of the Medline data base in a CD-ROM version] Kaltenborn KF. **Med Klin** 1989 Jul 15; 84(7):339–43, 368 (Eng. Abstr.) (Ger)
[The role of medial specialty publications for education and graduate education] Hollinek R. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):467–8 (Eng. Abstr.) (Ger)
[Education, graduate and continuing education] Baumgarten R. **Z Arztl Fortbild (Jena)** 1989;83(22):1095–6 (Ger)
[Films of the East German Academy for Continuing Medical Education] Siebert H, et al. **Z Arztl Fortbild (Jena)** 1989; 83(21):1053–4 (Ger)
[Individual continuing education and continuing education goals of the specialist in general medicine] Springfeld K. **Z Arztl Fortbild (Jena)** 1990;84(11):567–9 (Ger)
[Interview training for patient history inquiry at the first prenatal examination: a pilot project at a women's clinic] Wimmer-Puchinger B, et al. **Z Geburtshilfe Perinatol** 1989 Nov–Dec;193(6):276–83 (Eng. Abstr.) (Ger)
[Continuing medical education in the field of obesity] Cairella M, et al. **Clin Ter** 1990 May 31;133(4):251–7 (7 ref.) (Ita)
[Continuing education in medicine: a dream, a mirage or a nemesis?] Taroni F. **Epidemiol Prev** 1988 Dec;10(37):10–4 (31 ref.) (Ita)
[Continuing surgical education and the aging society] Mishima Y. **Nippon Geka Gakkai Zasshi** 1989 Sep; 90(9):1510–2 (Jpn)
[Surgical training in early postgraduate education] Muto K. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1492–4 (Jpn)
[Research training—what trainees think about future research education] Bjugn R, et al. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):862–4 (Eng. Abstr.) (Nor)
[Research training—the work situation of research trainees at the School of Medicine, University of Bergen] Hexeberg E, et al. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):859–62 (Eng. Abstr.) (Nor)
[Continuing education] Hunskär S, et al. **Tidsskr Nor Laegeforen** 1990 Mar 10;110(7):813–4 (Nor)
[Depth and width of orientation in medical specialties] Larsen O. **Tidsskr Nor Laegeforen** 1989 Dec 10;109(34–36):3538–40 (Nor)
[A basic course in pulmonary diseases as part of specialist training in internal medicine] Omenaas E, et al. **Tidsskr Nor Laegeforen** 1990 Jun 20;110(16):2072–4 (Eng. Abstr.) (Nor)
[Geriatrics—an American perspective. What about Norway?] Skeie S. **Tidsskr Nor Laegeforen** 1990 Jun 20;110(16):2106–8 (Nor)
[Experience in the evaluation of the effectiveness of postgraduate education of obstetricians-gynecologists] Krom LI, et al. **Akush Ginekol (Mosk)** 1990 Apr;(4):74–5 (Rus)
[The shaping of the clinical anatomical thinking of the pathological anatomist in a specialization lecture cycle in an institute for physician advanced training] Kan'shina NF. **Arkh Patol** 1990;52(1):57–61 (Eng. Abstr.) (Rus)
[The role of the young scientist's council at a college for training of scientific personnel] Kazakov VN, et al. **Klin Med (Mosk)** 1989 Jul;67(7):140–1 (Rus)
[The teaching of the clinical pathophysiology of respiration in the system of physician postgraduate training] Beliakov NA, et al. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):59–61 (Rus)
[A system of advanced training of administrators in the field of maternal and child health] Veselov NG. **Sov Zdravookhr** 1989;(11):39–41 (Eng. Abstr.) (Rus)
[A method for the clinical discussion of patients with students at a department for advanced training of physicians] Popova NL. **Ter Arkh** 1989;61(7):92–4 (Rus)
[Academic work in the military department of the Byelorussian Institute of Advanced Physician Training] Tarasov IuA, et al. **Voen Med Zh** 1990 Jan;(1):24–7 (Rus)
[The teaching of oncology at medical colleges and state institutes of advanced physician training in the USSR] Trapeznikov NN, et al. **Vopr Onkol** 1989;35(9):1114–8 (Rus)
[The influence of postgraduate instruction on the level of knowledge and on the practical activities of physicians in nutritional hygiene] Karpliuk IA, et al. **Vopr Pitan** 1990 May–Jun;(3):79–80 (Rus)
[A method for delivering a comprehensive lecture on systemic lupus erythematosus in a lecture series for physician specialization and postgraduate training in rheumatology] Drozdov DD, et al. **Vrach Delo** 1990 Jun; (6):123–4 (Rus)
[The training of the general practitioner at institutes for the advanced training of physicians] Girin VN, et al. **Vrach Delo** 1989 Jul;(7):118–9 (Rus)
[The training and advanced study of epidemiologists at the London School of Hygiene and Tropical Medicine] Sokhin AA. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):54–8 (Rus)
[The Mexican Center for Health Education through Television (CEMESATEL)] Torregrosa-Ferráez L. **Bol Med Hosp Infant Mex** 1989 Aug;46(8):515–6 (Spa)
[The delegation of the Swedish Medical Society: improved guidance on medical terminology. A continuing support for specialists' examinations] **Lakartidningen** 1989 Nov 15; 86(46):3970–1 (Swe)
[Voluntary specialist examination in otolaryngology starts next fall] Engstrand I. **Lakartidningen** 1990 Jun 27; 87(26–27):2240 (Swe)
[Does Sweden need the American specialist emergency physician?] Persson BM, et al. **Lakartidningen** 1989 Sep 27;86(39):3247–8 (Swe)

ECONOMICS

The RACS Foundation: a decade of self-help for continuing education and research [editorial] Ludbrook J. **Aust N Z J Surg** 1990 May;60(5):325–6
Impact of college of pharmacy-based educational services within the hospital. Mueller BA, et al. **DICP** 1990 Apr; 24(4):422–5
Medical education and the pharmaceutical industry [editorial] Salem AG. **J Gen Intern Med** 1990 Jan–Feb;5(1):91–2
Alternatives and options for funding continuing medical education: a debate. Paccagnella B. **Med Educ** 1990 Jan; 24(1):74–7
NJHA and continuing education. Scibetta LP. **N J Med** 1989 Sep;86(9):703–5
GP courses in the future [editorial] Kerrigan P. **Practitioner** 1989 May 22;233(1469):715

HISTORY

[60th anniversary of the Urology Clinic of the Ukrainian Institute of Physician Advanced Training] Klepikov FA. **Urol Nefrol (Mosk)** 1989 Jul–Aug;(4):66–9 (Rus)

LEGISLATION & JURISPRUDENCE

Continuing medical education [editorial] Fernandez ST. **Indian J Ophthalmol** 1989 Jan–Mar;37(1):1
Continuing medical education. Thorpe JH. **N J Med** 1989 Sep;86(9):686–7
The new health code regulations concerning postgraduate medical education in New York State [letter; comment] Slocum P. **N Y State J Med** 1990 Jan;90(1):39–41 Comment on: N Y State J Med 1989 Aug;89(8):457–61.
[Legal requirements of continuing education and control] Weissauer W. **Chirurg** 1990 Jan;61(1):suppl 1–3 (Ger)
[An evaluation system for continuing medical education—does a need for verification exist?] Wildmeister W. **Internist (Berl)** 1990 Apr;31(4):45–7 (Ger)

METHODS

Tasmanian inter-practice visit study. Barnes R. **Aust Fam Physician** 1990 Feb;19(2):125–7
Educational aspects of medical audit. Batstone GF. **BMJ** 1990 Aug 11;301(6747):326–8
Perioperative deaths among children [letter] Spargo PM. **BMJ** 1990 Aug 11;301(6747):343–4
Continuing education needs of health care professionals. Manning PR. **Bull Med Libr Assoc** 1990 Apr;78(2):161–4
Endoscopic simulation for training [editorial] Barde CJ. **Gastrointest Endosc** 1989 Sep–Oct;35(5):462–3
The impact of an educational workshop on colorectal screening practices. Fang WL, et al. **J Cancer Educ** 1987; 2(1):27–30
Training physicians about smoking cessation: a controlled trial in private practice. Cummings SR, et al. **J Gen Intern Med** 1989 Nov–Dec;4(6):482–9
Initiating faculty development: the WHL workshop as a learning experience. Grueninger UJ, et al. **J Hum Hypertens** 1990 Feb;4 Suppl 1:99–100
Informing physicians about promising new treatments for severe illnesses. Steinbrook R, et al. **JAMA** 1990 Apr 18; 263(15):2078–82
Developing the vast wasteland [editorial] Edwards KS. **Ohio Med** 1989 Sep;85(9):668
[The slide series of the East German Academy of Medical Continuing Education] Siebert H, et al. **Z Arztl Fortbild (Jena)** 1989;83(22):1123–4 (Ger)
[The group seminar as a continuing education model for the specialist in general practice] Weigl E. **Z Arztl Fortbild (Jena)** 1990;84(3):113–5 (Ger)
[Mexican Center for Health Education through television. Experience with via satellite continuous medical education] Torregrosa-Ferráez L, et al. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):1–3 (Spa)

ORGANIZATION & ADMINISTRATION

Tapping into quality data is next for hospital CME programs. Kuska MT. **Hospitals** 1990 Jul 20;64(14):30, 33
Guidelines for the CME moderator. Yarboro TL. **J Natl Med Assoc** 1990 Jan;82(1):49–50, 52
Continuing medical education [letter; comment] Searle A. **J R Coll Gen Pract** 1989 Dec;39(329):520–1 Comment on: J R Coll Gen Pract 1989 Aug;39(325):311–2.
New guidelines expected in 1991 for relationship of continuing education, financial support [news] Randall T. **JAMA** 1990 Sep 5;264(9):1080

STANDARDS

Viability of the commitment-for-change evaluation strategy in continuing medical education. Jones DL. **Acad Med** 1990 Sep;65(9 Suppl):S37–8
A survey of work undertaken in 1 year by a medical officer working in a maternal and child health clinic in Hong Kong: implications for training. Leung SL, et al. **Ann Trop Paediatr** 1990 Mar;10(1):99–108
The relationship between residency programs and fellowships in the educational setting. Allen WC. **Clin Orthop** 1990 Aug;(257):57–60
Targeting professional education. Pragmatism, priorities, and patience [editorial] Robbins DC. **Diabetes Care** 1990 Apr; 13(4):449–50
Lecture skills in medical education. Golden AS. **Indian J Pediatr** 1989 Jan–Feb;56(1):29–34
Ethics in CME. Caplan RM. **Iowa Med** 1990 Feb;80(2):84
Teaching the emotional aspects of cancer care. Kopel KF, et al. **J Cancer Educ** 1988;3(1):21–8
Increasing cancer prevention services calls for modification of continuing medical education. Love RR. **J Cancer Educ** 1988;3(2):71–3
CME for credit [editorial; comment] Thomison JB. **J Tenn Med Assoc** 1990 Jan;83(1):34–5 Comment on: J Tenn Med Assoc 1990 Jan;83(1):9–10.
Postgraduate training in Italy. Santamaria L. **Lancet** 1990 Aug 4;336(8710):314–5
Reading habits of house-staff: what, where and why. Fafard J, et al. **Med Teach** 1989;11(3–4):279–83
CME and MSNJ. Toro-Echague B, et al. **N J Med** 1989 Sep;86(9):688–9
Tumor boards not up to snuff, says USC study [news] **Oncology (Williston Park)** 1990 Mar;4(3):16
[The teaching of ambulatory care problems in postgraduate training from the aspect of official occupational requirements] Gmyria AI, et al. **Oftalmol Zh** 1989;(3):190–2 (Rus)
[Information on lecture cycles forthcoming in 1990 on raising the professional qualifications of the forensic medical experts and teachers of departments of forensic medicine in institutes and faculties of physician advanced training] Solokhin AA. **Sud Med Ekspert** 1990 Jan–Mar;33(1):46–7 (Rus)

STATISTICS & NUMERICAL DATA

Survey of continuing medical education programs in legal liability and risk management. Kapp MB. **South Med J** 1990 Jan;83(1):37–8

TRENDS

Higher training for intensive care [editorial] Hanson GC. **Br J Hosp Med** 1990 Feb;43(2):99
The changing paradigm for continuing medical education: impact of information on the teachable moment. Leist JC, et al. **Bull Med Libr Assoc** 1990 Apr;78(2):173–9
Physicians could lead the way in promoting education by satellite. Nielsen E. **Can Med Assoc J** 1990 Jan 1; 142(1):62–3
Transfer of technology. Cancer education. Fink DJ, et al. **Cancer** 1990 Feb 1;65(3 Suppl):780–5
The effects of a program for faculty development in geriatrics for physician assistant teachers. Yeo G, et al. **Gerontol Geriatr Educ** 1989;9(4):83–94
General practice residency training and the osteopathic profession: trends and issues for the 1990s [see comments] Aquilina AD. **J Am Osteopath Assoc** 1990 Feb;90(2):161–6, 173–8 Comment in: J Am Osteopath Assoc 1990 Jun;90(6):479, 483.
Future of general practice postgraduate education [letter; comment] Whitehead AM. **J R Coll Gen Pract** 1989 Nov; 39(328):479 Comment on: J R Coll Gen Pract 1989 Aug;39(325):311–2.
Continuing medical education. Wentz DK, et al. **JAMA** 1990 Aug 15;264(7):836–40
A time of change for CME. Dixon RE. **N J Med** 1989 Sep; 86(9):717–20
[Medical specialty journals: contribution to quality assurance in anesthesia and intensive care medicine] Krier C, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):183–5 (Ger)
[Post-education in clinical problems of narcotics abuse] Fauske S. **Tidsskr Nor Laegeforen** 1990 Mar 20;110(8):973–5 (Eng. Abstr.) (Nor)
[A group-based training program. A model for general practice?] Hunskär S. **Tidsskr Nor Laegeforen** 1989 Oct 30;109(30):3131–2 (Eng. Abstr.) (Nor)
[The prospects for the development of a system for the continuous postgraduate advanced training of pathological anatomists] Avtandilov GG. **Arkh Patol** 1990;52(2):60–2 (Rus)

EDUCATION, MEDICAL, GRADUATE

Mentors in graduate medical education at the Medical College of Wisconsin. Kirsling RA, et al. **Acad Med** 1990 Apr;65(4):272–4

The role of nonphysician consultants as health–care educators in postgraduate programs of anesthesiology. Rosenberg H, et al. **Acad Med** 1990 Feb;65(2):119–22

The association between students' research involvement in medical school and their postgraduate medical activities. Segal S, et al. **Acad Med** 1990 Aug;65(8):530–3

Frequency of suicide on Gotland after systematic postgraduate education of general practitioners. Rutz W, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):151–4

Biennial survey of clinical nutrition training programs. Morgan SL, et al. **Am J Clin Nutr** 1990 Jul;52(1):29–38

Pathology in the new pathway of medical education at Harvard Medical School. Colvin RB, et al. **Am J Clin Pathol** 1989 Oct;92(4 Suppl 1):S23–30

Stress experienced during pediatric residency training program [letter] Schubert WK. **Am J Dis Child** 1989 Nov; 143(11):1257

Ophthalmology and specialty education for medical students [editorial] Kaufman HE, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):83–5

Improving medical physiology education: outlook for the 1990s [editorial] Modell HI. **Am J Physiol** 1990 Jun;258(6 Pt 3):S1–2

Laparoscopic cholecystectomy [letter] Airan MC. **Am J Surg** 1990 Jun;159(6):619

Anaesthesia simulators and training devices [editorial] Good ML. **Anaesthesia** 1990 Jul;45(7):525–6

Psychosocial conferences in medical oncology. Role in a training program. Richards AI, et al. **Ann Intern Med** 1974 Apr;80(4):541–5

The Southampton teaching triad: an audit of operative surgical instruction. Thompson JF, et al. **Ann R Coll Surg Engl** 1990 Jul;72(4):243–6

Attraction of MD–PhDs to dermatology [letter; comment] Krueger G, et al. **Arch Dermatol** 1990 Feb;126(2):248 Comment on: Arch Dermatol 1989 Jun;125(6):845–6.

Postgraduate training in Europe for the next decade. Organizing Committee for the Workshop on Postgraduate Pediatric Training in Europe—Padua 1989. **Arch Dis Child** 1990 Jun;65(6):644–5

Assessment of teaching by Family Medicine Programme vocational trainees. Farmer E, et al. **Aust Fam Physician** 1990 Apr;19(4):549–50, 553, 555–7

A research seminar programme for doctoral candidates in psychiatry. Raphael B, et al. **Aust N Z J Psychiatry** 1990 Jun;24(2):207–13

Orthopaedic training in private practice. Gray DH, et al. **Aust N Z J Surg** 1990 Jul;60(7):515–8

Surgical training in private practice [editorial] Theile DE. **Aust N Z J Surg** 1990 Jul;60(7):497–8

NHS review. Standing Committee on Postgraduate Medical Education disquieted by threats to training. **BMJ** 1989 Aug 19;299(6697):509

Recruitment and training of prison doctors [editorial] Bluglass R. **BMJ** 1990 Aug 4;301(6746):249–50

Senior house officers and their training. I. Personal characteristics and professional circumstances. Grant J, et al. **BMJ** 1989 Nov 18;299(6710):1263–5

Senior house officers and their training. II. Perceptions of service and training. Grant J, et al. **BMJ** 1989 Nov 18; 299(6710):1265–8

Simulation in surgical training [editorial] MacIntyre IM, et al. **BMJ** 1990 Apr 28;300(6732):1088–9

General practitioner training in paediatrics [letter; comment] Wakefield IR. **BMJ** 1989 Aug 5;299(6695):392 Comment on: BMJ 1989 May 27;298(6685):1434–6.

Part time doctors? [letter] Wilkinson H. **BMJ** 1989 Aug 19; 299(6697):518

Post–graduate surgical education in Puerto Rico. Vázquez–Quintana E. **Bol Asoc Med P R** 1989 Oct; 81(10):400–1

Comparison of candidates who passed or failed the final (Part Three) examination for the F.F.A.R.C.S. (Eng.) in 1988. David AC, et al. **Br J Anaesth** 1990 Jun;64(6):752–7

Assessment of the general practitioner. Mulholland H, et al. **Br J Gen Pract** 1990 Jun;40(335):252–4 (8 ref.)

Comparing trainer and trainee referral rates: implications for education and allocation of resources. Rashid A, et al. **Br J Gen Pract** 1990 Feb;40(331):53–5

Should overseas doctors be trained at home? [letter; comment] Gibney EJ. **Br J Hosp Med** 1990 Apr;43(4):254 Comment on: Br J Hosp Med 1990 Jan;43(1):11.

Microsurgical practice on avulsed skin. Govila A, et al. **Br J Plast Surg** 1990 Mar;43(2):250–1

The need for a chair of tropical surgery. Holcombe C. **Br J Surg** 1990 Jan;77(1):3–4

Technical training in surgery: the trainee's view. Steele RJ, et al. **Br J Surg** 1989 Dec;76(12):1291–3

Manpower planning and training in internal medicine and allied specialties: a UK case study. Parkhouse J. **Cah Sociol Demogr Med** 1989 Apr–Jun;29(2):137–75

In favour of Canadian schools of public health [letter] [see comments] Robertson A. **Can J Public Health** 1990 Jan–Feb;81(1):84 Comment in: Can J Public Health 1990 May–Jun;81(3):240.

Basic Training Program in Medical Pedagogy: a 1–year program for medical faculty. Des Marchais JE, et al. **Can Med Assoc J** 1990 Apr 1;142(7):734–40

The specialty match: a necessity in the equitable resident selection process. Taylor B, et al. **Can Med Assoc J** 1989 Oct 1;141(7):673–6

Connecticut emergency department physicians survey. Implications for graduate medical education. Salluzzo R, et al. **Conn Med** 1990 Jun;54(1):3–4

Postgraduate training and/or education? [editorial] Taylor R. **Diabetic Med** 1989 Nov;6(8):655–6

The doctor and his feelings: a course for residents in family medicine. Rabinowitz S, et al. **Fam Pract** 1989 Sep; 6(3):199–202

Training in academic radiation oncology in the U.S.: a report to the Inter Society Council for Radiation Oncology. Parker RG. **Int J Radiat Oncol Biol Phys** 1990 May; 18(5):1245–8

Our 20th anniversary year: remembering the Willard Report [editorial] Stephens GG. **J Am Board Fam Pract** 1989 Oct–Dec;2(4):288–90

Osteopathic postdoctoral education. Baker HH, et al. **J Am Osteopath Assoc** 1989 Nov;89(11):1447–50, 1453–5

A survey of housestaff attitudes towards terminal care education. Goldberg R, et al. **J Cancer Educ** 1987; 2(3):159–63

Graduate education and training in surgical oncology. Hill GJ. **J Cancer Educ** 1986;1(1):45–50

Use of live pigs in postgraduate surgical training [letter; comment] Gormley DE. **J Dermatol Surg Oncol** 1990 Apr; 16(4):393–4 Comment on: J Dermatol Surg Oncol 1989 Jul;15(7):734–6.

The learning–disabled medical student [letter; comment] Policastro AM. **J Dev Behav Pediatr** 1990 Apr;11(2):103 Comment on: J Dev Behav Pediatr 1989 Oct;10(5):253–8.

Internal migration of British doctors: who goes where? Parkhouse J, et al. **J Public Health Med** 1990 Feb; 12(1):66–72

Analysis of the hospital experience completed by general practitioner trainees in 1984–87. Styles WM. **J R Coll Gen Pract** 1989 Mar;39(320):96–7

Is there a future for general practice postgraduate education? ? [editorial] [see comments] Wall D, et al. **J R Coll Gen Pract** 1989 Aug;39(325):311–2 Comment in: J R Coll Gen Pract 1989 Nov;39(328):479. Comment in: J R Coll Gen Pract 1989 Dec;39(329):520–1.

Overseas doctors' training scheme. Lamb DW. **J R Coll Surg Edinb** 1989 Dec;34(6):296

Alcohol–related problems of future physicians prior to medical training. Richman JA, et al. **J Stud Alcohol** 1990 Jul;51(4):296–300

Health management fellowships offered. **JAMA** 1990 May 23–30;263(20):2712

Field epidemiology training programs. New international health resources. Music SI, et al. **JAMA** 1990 Jun 27; 263(24):3309–11

Internal medicine chief residents want changes in education. Tuteur PG. **JAMA** 1990 Jul 11;264(2):175

Tainted treacle [editorial] **Lancet** 1990 Sep 29; 336(8718):780–1

Plans for MRC Clinical Research Centre [letter; comment] Gumpel JM, et al. **Lancet** 1990 Jan 13;335(8681):116 Comment on: Lancet 1989 Nov 4;2(8671):1102.

Careers in medicine: appointment to specialist training posts in Queensland in 1988. Biggs JS. **Med Educ** 1990 Jan; 24(1):68–73

Information technology in postgraduate medical education. Keay JM, et al. **Med Educ** 1989 Sep;23(5):472–5

The approaches to learning of specialist physicians. Newble DI, et al. **Med Educ** 1990 Mar;24(2):101–9

Prevention and treatment of heart disease in China. Sloman G. **Med J Aust** 1990 Sep 3;153(5):289–90

Nutritional training in postgraduate medicine. Strauss BJ. **Med J Aust** 1989 Sep 18;151 Suppl:S26–7 (6 ref.)

The postgraduate medical informatics programme at the University of Cape Town. Hanmer LA. **Methods Inf Med** 1989 Nov;28(4):321–3

The department of military medicine—a graduate medical education idea whose time has come [letter; comment] La Piana FG. **Milit Med** 1990 Apr;155(4):A17 Comment on: Milit Med 1989 Oct;154(10):536–7.

The Department of Military Medicine—a graduate medical education idea whose time has come [editorial] [see comments] Pierce JR, et al. **Milit Med** 1989 Oct; 154(10):536–7 Comment in: Milit Med 1990 Apr;155(4):A17.

Interdisciplinary support team for the terminally ill [news] **Oncology (Williston Park)** 1990 Mar;4(3):96

Can ethics be taught in an orthopedic residency training program? [editorial] D'Ambrosia R. **Orthopedics** 1990 Jun; 13(6):629–31

Festschrift for Sir David Innes Williams. **Postgrad Med J** 1990;66 Suppl 1:S1–78

Sir David Innes Williams—his contribution to postgraduate medical education and the training of overseas doctors. Anderson J. **Postgrad Med J** 1990;66 Suppl 1:S13–7

The senior house officer (SHO) grade—service and education. Crisp AH. **Postgrad Med J** 1989 Nov; 65(769):851–7

Medical training in Belgium: a year in Brussels. Smellie WS. **Postgrad Med J** 1989 Dec;65(770):955–6

Aspects of practice management. Palmer K. **Practitioner** 1989 Feb 8;233(1462):153–5

Social medicine. Palmer K. **Practitioner** 1990 Feb 8; 234(1482):107–9

The consultation. Palmer K. **Practitioner** 1989 Feb 22; 233(1463):248–50

Revision strategy. Palmer K. **Practitioner** 1989 Sep 8; 233(1474):1155–6, 1159

A study strategy for the MRCGP examination. Palmer K. **Practitioner** 1989 Jan;233(1461):49–51

Social medicine. Palmer K. **Practitioner** 1989 Mar 8; 233(1464):324–5

Postgraduate medical training and certification at the National University of Singapore. Wong HB. **Singapore Med J** 1989 Apr;30(2):189–93

International collaboration for postgraduate psychiatric education [editorial] Orley J. **Soc Psychiatry Psychiatr Epidemiol** 1990 Mar;25(2):65–6

Training in critical care medicine: a personal perspective. Rieves RD. **South Med J** 1990 Sep;83(9):1081–4

Graduate surgical education—a beleaguered but beneficent system. Baker RJ. **Surgery** 1989 Oct;106(4):581–8

[Postgraduate education in psychotherapy] Beran J. **Cesk Psychiatr** 1990 Apr;86(2):97–102 (Eng. Abstr.) (Cze)

[The present state and perspectives of postgraduate education of physicians in internal medicine] Rath R. **Vnitr Lek** 1989 Dec;35(12):1145–50 (Eng. Abstr.) (Cze)

[Selection of medical residents for training in surgery in The Netherlands] Keeman JN, et al. **Ned Tijdschr Geneeskd** 1989 Nov 11;133(45):2239–42 (Dut)

[Integration of surgical research into the education and continuing education of the surgeon] Wolner E. **Chirurg** 1990 Apr;61(4):236–9 (8 ref.) (Ger)

[Pediatrics in transition? Questions of the educational program in pediatrics and of our pediatricians (editorial)] Dittmer A. **Kinderarztl Prax** 1990 Apr;58(4):175–8 (Ger)

[The role of medial specialty publications for education and graduate education] Hollinek R. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):467–8 (Eng. Abstr.) (Ger)

[Succession from the viewpoint of the primary physician, education of the general physician. Results of a representative survey of faculty of Steiermark] Velimirovic B. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):461–7 (Eng. Abstr.) (Ger)

[Education, graduate and continuing education] Baumgarten R. **Z Arztl Fortbild (Jena)** 1989;83(22):1095–6 (Ger)

[Health politics and problem presentation in medical philosophical attitudes in the graduate education of general practitioners] Kober R. **Z Arztl Fortbild (Jena)** 1989; 83(24):1273–4 (Ger)

[A study on the goals and achievements of postgraduate medical education] Sugita S, et al. **Nippon Eiseigaku Zasshi** 1989 Dec;44(5):935–44 (Eng. Abstr.) (Jpn)

[Data of computed tomography in teaching of surgery and topographic anatomy] Vyrenkov IuE, et al. **Arkh Anat Gistol Embriol** 1990 Jun;98(6):89–91 (Rus)

[A stand for training students] Grigoruk AA, et al. **Ortop Travmatol Protez** 1989 Aug;(8):48 (Rus)

[Improving teaching of preventive medicine and care of healthy children at a medical institute] Surkov VD, et al. **Pediatriia** 1990;(6):76–8 (Rus)

[Ways of improving training of hygienist physicians and epidemiologists in medical institutes] Ermakov VV, et al. **Sov Zdravookhr** 1989;(9):60–4 (Rus)

[Methods of encouraging independent activities of students during study hours and spare time] Kulik GS, et al. **Sov Zdravookhr** 1990;(4):59–61 (Eng. Abstr.) (Rus)

[Methods of pedagogical assessment of qualifications in postgraduate medical education] Murav'ev MV, et al. **Sov Zdravookhr** 1989;(12):43–8 (Eng. Abstr.) (Rus)

[Experience in training of general practitioners] Pavlovskil MP, et al. **Sov Zdravookhr** 1989;(9):58–9 (Eng. Abstr.) (Rus)

[Combined cycles—a new form of advanced training for physicians. Initial experience and perspectives] Simbirtsev SA, et al. **Sov Zdravookhr** 1989;(8):61–2 (Eng. Abstr.) (Rus)

[Functional–cost approach to the evaluation of methods used in postgraduate education of public health administrators] Somin MP. **Sov Zdravookhr** 1990;(4):56–8 (Eng. Abstr.) (Rus)

[First experimental experience in using three–dimensional images in computer–assisted teaching of students] Posazhennikov AP, et al. **Vestn Oftalmol** 1989 Nov–Dec; 105(6):45–6 (Eng. Abstr.) (Rus)

[Methodological guidelines in teaching otorhinolaryngology] Tolstov IuP. **Vestn Otorinolaringol** 1989 Sep–Oct;(5):63–5 (Rus)

[Graduate medical education in clinical immunology and allergy] Reyes Ramos JE, et al. **Rev Alerg Mex** 1990 Jan–Feb;37(1):3–5 (Spa)

[Training gastroenterologists for the year 2000 (editorial)] Cataldi Amatriain RM. **Rev Esp Enferm Apar Dig** 1989 Oct;76(4):379–80 (Spa)

[Basic education in geriatrics is still unequally distributed in Scandinavia] Steen B. **Nord Med** 1990;105(4):124–5 (Eng. Abstr.) (Swe)

ECONOMICS

Teaching status and resource use for patients with acute myocardial infarction: a new look at the indirect costs of graduate medical education. Udvarhelyi IS, et al. **Am J Public Health** 1990 Sep;80(9):1095–100

Sponsored training for overseas doctors [letter; comment] Caldicott F. **BMJ** 1989 Nov 25;299(6711):1341 Comment on: BMJ 1989 Oct 14;299(6705):980.
Teaching hospitals brace for huge GME payment losses. Burke M. **Hospitals** 1990 Jul 5;64(13):36, 38, 40–2
Funding for cancer education. Myers WP. **J Cancer Educ** 1986;1(2):61–4
Financing ambulatory care education in internal medicine. Eisenberg JM. **J Gen Intern Med** 1990 Jan–Feb;5(1 Suppl):S70–80
Medical Research Council's plans [letter; comment] [see comments] Rees DA. **Lancet** 1989 Nov 4;2(8671):1102 Comment on: Lancet 1989 Oct 14;2(8668):900. Comment in: Lancet 1989 Dec 23–30;2(8678–8679):1529. Comment in: Lancet 1990 Jan 13;335(8681):116.
Medical education in ambulatory care [letter] **N Engl J Med** 1990 Jan 4;322(1):61–2
NJHA and continuing education. Scibetta LP. **N J Med** 1989 Sep;86(9):703–5
For the price of a penl [letter] [see comments] Thomson A. **N Z Med J** 1990 Mar 28;103(886):135 Comment in: N Z Med J 1990 Apr 25;103(888):190. Comment in: N Z Med J 1990 May 23;103(890):250. Comment in: N Z Med J 1990 Jun 13;103(891):278–9.
The future of family practice training in California. Midtling JE, et al. **West J Med** 1990 Mar;152(3):317–21

HISTORY

The medical staff round. Neale G. **Gut** 1989 Nov;30 Spec No:65–6
George J. Heuer: a commemorative review. McFadden DW. **South Med J** 1990 Jul;83(7):821–6

LEGISLATION & JURISPRUDENCE

How many hours? [news] Fins JJ. **Hastings Cent Rep** 1990 Mar–Apr;20(2):3–4
[Medical graduate and basic education in Austria: emergency or surplus? Objective evaluation or bureaucratic regimentation?] Barolin GS. **Wien Med Wochenschr** 1989 Oct 31;139(19–20):455–60 (Eng. Abstr.) **(Ger)**

MANPOWER

Filling the void of well-trained occupational medicine physicians: a challenge for the 1990s. Teichman RF, et al. **J Occup Med** 1990 Feb;32(2):124–6

METHODS

Two methods of including postgraduate students as observers of psychotherapy. Davanzo H, et al. **Acad Med** 1990 Aug; 65(8):542
The role of European specialists in training overseas post-graduates in paediatric gastroenterology and nutrition. Report of a Workshop of the European Society for Paediatric Gastroenterology and Nutrition, Copenhagen, 1988. Bhan R, et al. **Acta Paediatr Scand** 1990 Feb; 79(2):248–9
Simulation in surgical training [letter] **BMJ** 1990 Jul 21; 301(6744):182–3
Introducing psychiatric residents to psychoanalysis: a visiting analyst's perspective. Sonnenberg SM. **J Am Psychoanal Assoc** 1990;38(2):451–69 (17 ref.)
A suitable case for Technik: behavioural science in the postgraduate medical curriculum. Kelly MP. **Med Educ** 1990 May;24(3):271–9

STANDARDS

Research ethics: a teaching agenda for academic medicine. Friedman PJ. **Acad Med** 1990 Jan;65(1):32–3
Components of effective clinical-nutrition training: a national survey of graduate medical education (residency) programs. Boker JR, et al. **Am J Clin Nutr** 1990 Sep; 52(3):568–71
Perspectives on pathology education. Burke MD. **Am J Clin Pathol** 1989 Oct;92(4 Suppl 1):S9–10
Academic missions of division chiefs in pediatric departments. II. The division chief as a teacher of adults. Daeschner CW Jr. **Am J Dis Child** 1990 Aug;144(8):891–3
Academic missions of division chiefs in pediatric departments. I. The division chief as an administrator. Fiser RH Jr. **Am J Dis Child** 1990 Aug;144(8):889–90
Academic missions of division chiefs in pediatric departments. III. The division chief as a director of fellowship training. Stapleton FB. **Am J Dis Child** 1990 Aug;144(8):893–5
On the fifth year, subspecialty certification, and delayed gratification. A partial solution. Neff JC. **Arch Pathol Lab Med** 1990 Jul;114(7):720–1
Training for general practice: a national survey. Crawley HS, et al. **BMJ** 1990 Apr 7;300(6729):911–5
Preregistration house officers in the four Thames regions: I. Survey of education and workload. Dent TH, et al. **BMJ** 1990 Mar 17;300(6726):713–6
Preregistration house officers in the four Thames regions: II. Comparison of education and workload in teaching and non-teaching hospitals. Dent TH, et al. **BMJ** 1990 Mar 17;300(6726):716–8
Training for general practice [see comments] Hull R. **BMJ** 1989 Oct 21;299(6706):996 Comment in: BMJ 1989 Dec 9;299(6713):1466.
The government white paper: threat or challenge? King RC. **Br J Hosp Med** 1990 May;43(5):368–72
Do overseas doctors receive appropriate training? [letter; comment] Rowley DI. **Br J Hosp Med** 1990 Mar;43(3):182 Comment on: Br J Hosp Med 1990 Jan;43(1):11.
Second annual W.R. Ghent lecture on trauma. Abdominal organ injury: diagnosis, treatment and education. Lucas CE. **Can J Surg** 1990 Jun;33(3):189–95
The accreditation of graduate educational programs in orthopedic surgery. Wilson FC. **Clin Orthop** 1990 Aug; (257):18–21
Need for a strong medical council [letter] Arya TV. **J Assoc Physicians India** 1989 Jul;37(7):483
To what degree are we maxillofacial surgeons? [letter] Baird W. **J Oral Maxillofac Surg** 1989 Oct;47(10):1126–7
Principles for graduate medical education. Council on Medical Education. **JAMA** 1990 Jun 6;263(21):2927–30
Examining the examiners [letter; comment] Hatch DJ. **Lancet** 1990 Apr 14;335(8694):916 Comment on: Lancet 1990 Feb 24;335(8687):443–5.
Postgraduate training in Italy [letter] Pedrazzoli P. **Lancet** 1990 Jul 7;336(8706):56
Training of specialist palliative care physicians [letter] Gorman D. **Med J Aust** 1990 Jun 18;152(12):674–5
The plight of senior house officers—some facts. Grant J, et al. **Postgrad Med J** 1989 Dec;65(770):869–71
Hospital jobs in GP training [letter] Hughes T. **Practitioner** 1990 May 22;234(1489):515
The MRCGP examination. Palmer K. **Practitioner** 1989 Apr 22;233(1467):584–5
Micro-computers: availability to and use by trainees in public health medicine. McKee CM, et al. **Public Health** 1990 May;104(3):165–9
[Clinical scientific research (letter)] **Ned Tijdschr Geneeskd** 1990 May 5;134(18):928–9 **(Dut)**
[The current status and the ideal of postgraduate psychiatric training] **Seishin Shinkeigaku Zasshi** 1989;91(11):964–1013 **(Jpn)**
[Specialization of physicians of the Industrial Health Care System in occupational medicine] Bryla M, et al. **Med Pr** 1989;40(6):393–9 (Eng. Abstr.) **(Pol)**
[The role of the institutes and schools of post-graduate training in the certification of physicians and pharmacists] Murav'ev MV. **Sov Zdravookhr** 1990;(1):62–4 **(Rus)**
[Conclusion of the editorial board on the discussion on the article by F.G. Uglov, L.V. Lebedev, L.V. Potashov and V.V. Gritsenko "Improving the quality of student training in surgery" (Vestnik khirurgii, 1987, No. 11, p.132)] **Vestn Khir** 1989 May;142(5):116–7 **(Rus)**

STATISTICS & NUMERICAL DATA

Graduate medical education in the United States. Rowley BD, et al. **JAMA** 1990 Aug 15;264(7):822–32
An assessment of registrars and their training programmes at the University of Cape Town Teaching Hospitals [published erratum appears in S Afr Med J 1990 May 5;77(9):487] Winter TA, et al. **S Afr Med J** 1990 Mar 17; 77(6):304–6

TRENDS

Graduate medical education: focus for change. Foreman S. **Acad Med** 1990 Feb;65(2):77–84
Special report: ASCP Colorado Springs conference. The future content and structure of residency training in pathology. Burke MD, et al. **Am J Clin Pathol** 1990 May; 93(5):706–11
The core curriculum and the future of pathology. Another opinion [editorial] Zaino RJ. **Arch Pathol Lab Med** 1990 Jun;114(6):563–4
Do politicians understand the needs of postgraduate medicine? Johnson R. **Br J Hosp Med** 1989 Nov; 42(5):422–3
Public policy and aging in the gerontology curriculum: suggestions for a model course. Coberly S. **Gerontol Geriatr Educ** 1989;9(4):37–45
The backbone of academic gerontology: introduction. Weg RB. **Gerontol Geriatr Educ** 1989;9(4):1–7 (23 ref.)
Biology and physiology of development of aging. Weg RB. **Gerontol Geriatr Educ** 1989;9(4):9–16
Experiential learning in gerontology: methods for applying concepts and theories to practice. Wilber KH, et al. **Gerontol Geriatr Educ** 1989;9(4):47–58
The pull toward the vacuum: osteopathic medical education in the 1980s. Cummings M. **J Am Osteopath Assoc** 1990 Apr;90(4):353–62
National health care system [letter] Zachariah P. **J Assoc Physicians India** 1990 Apr;38(4):311–2
Postgraduate training in psychiatry 1977–87: disturbing trends in the pattern of international collaboration. Appleby L, et al. **Med Educ** 1990 May;24(3):290–7
Some solutions to the shortage of general practitioners in rural Australia. Part 3. Vocational training. Kamien M, et al. **Med J Aust** 1990 Jul 16;153(2):112–4
Graduate medical education: projections for the future [see comments] Ognibene AJ. **Pharos** 1990 Winter;53(1):28–31 Comment in: Pharos 1990 Spring;53(2):42–3.
Graduate medical education in the United States. Michener WM. **Singapore Med J** 1989 Apr;30(2):124–6
Evolving residency requirements for ambulatory care training for five medical specialties, 1961 to 1989. Zones JS, et al. **West J Med** 1989 Dec;151(6):676–8
[Professional prospects of young surgeons] Schade G. **Chirurg** 1990 Apr;61(4):suppl 61–2 **(Ger)**
[The future of the single medical school chair] Ratner GL. **Vestn Khir** 1989 May;142(5):114–6 **(Rus)**

EDUCATION, MEDICAL, UNDERGRADUATE

Priorities for nutrition content within a medical school curriculum: a national consensus of medical educators. American Society for Clinical Nutrition Committee on Medical/Dental School and Residency Nutrition Education. **Acad Med** 1990 Aug;65(8):538–40
Medical student education in ambulatory care. Abbott AV, et al. **Acad Med** 1989 Oct;64(10 Suppl):S9–15
The quarterly profile examination. Arnold L, et al. **Acad Med** 1990 Aug;65(8):515–6
Senior elective [letter] Berkelhamer JE, et al. **Acad Med** 1989 Nov;64(11):667–8
Improvement of oncology education at the University of Washington School of Medicine, 1984–1988. Bleyer WA, et al. **Acad Med** 1990 Feb;65(2):114–9
Developing and maintaining a sound undergraduate clerkship curriculum. DaRosa DA, et al. **Acad Med** 1990 Sep; 65(9):556–7
Does an ambulatory-care experience influence third-year students to select a career in internal medicine? Fincher RM, et al. **Acad Med** 1990 Jun;65(6):421
Computer databases as an educational tool in the basic sciences. Friedman CP, et al. **Acad Med** 1990 Jan;65(1):15–6
Summer fellowships [letter] Horgan M, et al. **Acad Med** 1989 Nov;64(11):668
Humanism in medical education: a study of educational needs perceived by trainees of three Canadian schools. Maheux B, et al. **Acad Med** 1990 Jan;65(1):41–5
Teaching critical thinking in the context of substance abuse in a psychiatry clerkship [published erratum appears in Acad Med 1990 Apr;65(4):233] Regan-Smith MG, et al. **Acad Med** 1990 Feb;65(2):89
Evaluating preclinical medical students by using computer-based problem-solving examinations. Stevens RH, et al. **Acad Med** 1989 Nov;64(11):685–7
A comparison of free-response and cued-response diagnosis scores in an evaluation of clinical competence utilizing standardized patients. Stillman PL, et al. **Acad Med** 1990 Sep;65(9 Suppl):S27–8
A first-year problem-based curriculum in health promotion and disease prevention. Taylor WC, et al. **Acad Med** 1989 Nov;64(11):673–7
Generalizability of standardized patients' satisfaction ratings of their clinical encounter with fourth-year medical students. Vu NV, et al. **Acad Med** 1990 Sep;65(9 Suppl):S29–30
Medical nutrition education [letter; comment] Weinsier RL, et al. **Acad Med** 1989 Oct;64(10):586–7 Comment on: Acad Med 1989 Feb;64(2):84.
The nursing home as a site for teaching medical students. Wiener M, et al. **Acad Med** 1990 Jun;65(6):412–4
Teaching and learning in the ambulatory setting. Woolliscroft JO, et al. **Acad Med** 1989 Nov;64(11):644–8
Evaluation by second-year medical students of their computer-aided instruction. Xakellis GC, et al. **Acad Med** 1990 Jan;65(1):23–6
The influence of undergraduate clinical training on the attitude of medical students to rural medical practice in Nigeria. Asuzu MC. **Afr J Med Med Sci** 1989 Dec; 18(4):245–50
Knowledge and attitudes about AIDS among first- and second-year medical students. Johnson JA, et al. **AIDS Educ Prev** 1990 Spring;2(1):48–57
The pediatric term paper. Robertson WO. **Am J Dis Child** 1967 Jul;114(1):51–4
The genesis of teaching human genetics at medical schools [letter; comment] Waelsch SG, et al. **Am J Hum Genet** 1990 Jun;46(6):1222 Comment on: Am J Hum Genet 1989 Jan;44(1):160.
A mini-workshop to train medical students to use a patient-centered approach to smoking cessation. Allen SS, et al. **Am J Prev Med** 1990 Jan–Feb;6(1):28–33
Teaching risk-factor counseling skills: a comparison of two instructional methods. Levenkron JC, et al. **Am J Prev Med** 1990;6(2 Suppl):29–34
Exercises in self-observation: a workshop for instructors in psychiatry. Muslin HL, et al. **Am J Psychiatry** 1967 Aug; 124(2):198–202
Influence of clerkship structure and timing on individual student performance. Baciewicz FA Jr, et al. **Am J Surg** 1990 Feb;159(2):265–8
Evaluation of computer case simulations for teaching clinical pathology to second-year medical students. Wu AH, et al. **Ann Clin Lab Sci** 1990 Mar–Apr;20(2):154–60
An emergency medicine society [letter] Cook RT Jr, et al. **Ann Emerg Med** 1990 Jan;19(1):106
Analyzing clinical case distributions to improve an emergency medicine clerkship. De Lorenzo RA, et al. **Ann Emerg Med** 1990 Jul;19(7):746–51
Medical student retention of intubation skills. Nelson MS. **Ann Emerg Med** 1989 Oct;18(10):1059–61
Educating medical students about death and dying [letter; comment] Devine WA. **Arch Dis Child** 1989 Nov; 64(11):1643 Comment on: Arch Dis Child 1989 May;64(5):750–3.
The changing paradigm of neurologic practice and care.

Implications for the undergraduate curriculum. Menken M. **Arch Neurol** 1990 Mar;47(3):334–6
Education for clinical science: experience in Australia and England. Dudley HA. **Aust N Z J Surg** 1989 Dec; 59(12):909–12
Academic surgery and the Bachelor of Medical Science degree [editorial] Ludbrook J. **Aust N Z J Surg** 1989 Dec; 59(12):907–8
Teaching blood morphology: audiovisual method compared to microscope slides with written text and instructor. Stanley J, et al. **Blood** 1974 Sep;44(3):445–8
Child health surveillance [letter] Davies DP. **BMJ** 1990 Jan 27;300(6719):259
Going, going, gone. Howe RW. **BMJ** 1989 Dec 23–30; 299(6715):1611–4
Learning by experience [letter] Metcalf NF, et al. **BMJ** 1989 Sep 23;299(6702):792
Teaching medical students about alcohol [editorial] Ritson EB. **BMJ** 1990 Jul 21;301(6744):134–5
Impact of medical school training on doctors' nutritional awareness: an evaluation using the Good Food Guide database. Wakeford R. **BMJ** 1989 Dec 23–30; 299(6715):1572–3
Cardiopulmonary resuscitation and the MRCGP examination [letter] [see comments] Wilson DH, et al. **BMJ** 1990 Jan 6;300(6716):44 Comment in: BMJ 1990 Jan 27;300(6719):258.
Veterinary wisdom [letter; comment] Cutler R. **Br Dent J** 1990 Feb 24;168(4):140 Comment on: Br Dent J 1990 Jan 20;168(2):78.
Elective—a trip to Toronto [see comments] Roberts J. **Br Dent J** 1990 Jan 20;168(2):78 Comment in: Br Dent J 1990 Feb 24;168(4):140.
Psychiatry for undergraduates. Hart JJ. **Br J Psychiatry** 1990 Apr;156:596–7
Surgery in the undergraduate curriculum—a statement by the Association of Professors of Surgery. Taylor I, et al. **Br J Surg** 1990 Jul;77(7):822–3
A multidisciplinary approach to information and critical appraisal instruction. Dorsch JL, et al. **Bull Med Libr Assoc** 1990 Jan;78(1):38–44
The roles of dietitian faculty members in clinical nutrition teaching. Lasswell A. **Bull N Y Acad Med** 1989 Nov; 65(9):982–4; discussion 992–4
The roles of dietitian faculty members in clinical nutrition teaching. Munves E. **Bull N Y Acad Med** 1989 Nov; 65(9):988–9; discussion 992–4
The roles of dietitian faculty members in clinical training. Nelson M. **Bull N Y Acad Med** 1989 Nov;65(9):990–1; discussion 992–4
The roles of dietitian faculty members in clinical nutrition teaching. Wylie-Rosett J. **Bull N Y Acad Med** 1989 Nov; 65(9):985–7; discussion 992–4
Have you heard? [letter] McCormick WO. **Can Med Assoc J** 1989 Nov 1;141(9):875
Clinical diagnosis—is there a more rational approach? Jayasinghe S. **Ceylon Med J** 1989 Dec;34(4):149–51
Surgical residents as teachers. Anderson KD, et al. **Curr Surg** 1990 May–Jun;47(3):185–8
Nebraska premedical family practice course elective [letter] Paulman PM, et al. **Fam Med** 1990 May–Jun;22(3):240
Adapting problem–based learning to a traditional curriculum: teaching about prevention. Dietrich AJ, et al. **Fam Pract Res J** 1990 Fall;10(1):65–73
Problem–based teaching of pathology: is it cost–effective? [editorial; comment] Black WC, et al. **Hum Pathol** 1990 Sep;21(9):879–80 Comment on: Hum Pathol 1990 Sep;21(9):881–5.
Problem–based learning: an assessment of its feasibility and cost [see comments] Donner RS, et al. **Hum Pathol** 1990 Sep;21(9):881–5 Comment in: Hum Pathol 1990 Sep;21(9):879–80.
The pathologist as student and educator [editorial] Gorstein F, et al. **Hum Pathol** 1990 Jan;21(1):1–3
Teaching pathology in the 21st century: assessment of required student use of interactive videodiscs designed to teach basic pathology. Jones R, et al. **Hum Pathol** 1990 Jan;21(1):6–10
Developing teaching skills for medical school faculty: how to tell students what to look for without telling them what to see. Whitman N. **Hum Pathol** 1990 Jan;21(1):49–50
Learning dermatology on a dermatology elective. Sherertz EF. **Int J Dermatol** 1990 Jun;29(5):345–8
Medical student perceptions of diagnostic radiology. Influence of a senior radiology elective. Sallee DS, et al. **Invest Radiol** 1989 Sep;24(9):724–8
A suitable time to introduce anaesthetics [editorial] Shorten G. **Ir Med J** 1990 Mar;83(1):5–6
Undergraduate osteopathic medical education. Reich M. **J Am Osteopath Assoc** 1989 Nov;89(11):1435–40
Effect of British–made videotapes on clinical performance of medical students in Pakistan. Mir MA, et al. **J Audiov Media Med** 1990 Jan;13(1):20–4
A cancer education study in The Netherlands based on the AACE/NCI Cancer Education Survey. Haagedoorn EM, et al. **J Cancer Educ** 1986;1(2):71–7
Effects of an oncology elective on first–year medical students' knowledge and attitudes about cancer. Krackov SK, et al. **J Cancer Educ** 1990;5(1):43–9
Educational objectives for a cancer control course for Israeli medical students. Love RR, et al. **J Cancer Educ** 1988; 3(2):109–10
Methods for increasing active medical student participation in their own learning: experience with a single 30–hour course for 111 preclinical students. Love RR. **J Cancer Educ** 1990;5(1):33–6
Live models for clinical teaching [letter] Ringenberg QS. **J Cancer Educ** 1988;3(2):147
Teaching oncology to medical students in Israel. Robinson E. **J Cancer Educ** 1988;3(2):107–9
Curriculum guidelines for preclinical dental assisting. **J Dent Educ** 1990 Sep;54(9):579–81
Augmenting the critical care data base of junior medical students with an emergency medicine lecture curriculum: a controlled study. Binder L, et al. **J Emerg Med** 1990 Mar–Apr;8(2):211–4
Teaching pathology in a problem–oriented curriculum: the Maastricht experience. Bosman FT, et al. **J Pathol** 1989 Oct;159(2):175–8
The teaching of pathology at St. George's Hospital Medical School, London. Lakhani S, et al. **J Pathol** 1990 Jun; 161(2):179–81
How do we teach pathology? Pathology teaching at King's College School of Medicine, London. Salisbury JR, et al. **J Pathol** 1990 Jan;160(1):83–4
Undergraduate departments of general practice: substance or symbolic shadow? [editorial] Knox JD. **J R Coll Gen Pract** 1989 Feb;39(319):44
A health promotion module for undergraduate medical students. Amos A, et al. **Med Educ** 1990 Jul;24(4):328–35
Inquiry: the pedagogical importance of a skill central to clinical practice. Barrows HS. **Med Educ** 1990 Jan;24(1):3–5
Undergraduate medical education in obstetrics and gynaecology in the USA and Canada, 1985. Beckmann CR, et al. **Med Educ** 1990 May;24(3):224–9
Teaching nutrition to medical students: a community–based problem–solving approach. Bhattacharji S, et al. **Med Educ** 1990 Jan;24(1):32–6
Elaborated learning in undergraduate medical education. Coles CR. **Med Educ** 1990 Jan;24(1):14–22
The ERASMUS programme: is British medical education going to lose out on educational opportunities in Europe? [letter] Dyke T. **Med Educ** 1990 May;24(3):313
Psychological tests to measure the effects of medical education on students' interpersonal skills. Evans BJ, et al. **Med Educ** 1989 Nov;23(6):492–7
Health promotion in the medical curriculum. Gillies PA, et al. **Med Educ** 1989 Sep;23(5):440–6
The educational value of clinical electives. Harth SC, et al. **Med Educ** 1990 Jul;24(4):344–53
Evaluation of lectures on medical ethics through students' drawings. Hasekura H, et al. **Med Educ** 1990 Jan;24(1):42–5
Teaching medicine in general practice: the Guy's experience. Higgins PM. **Med Educ** 1989 Nov;23(6):504–11
Training doctors for the year 2000. Hussey RM, et al. **Med Educ** 1990 Jan;24(1):11–3
Education in psychogeriatrics: the leap of the imagination. Isaacs B, et al. **Med Educ** 1989 Sep;23(5):453–6
Can first–year medical students contribute to better care for patients with a chronic disease? Kamien M. **Med Educ** 1990 Jan;24(1):23–6
Teaching psychiatric interview skills to medical students. Lovett LM, et al. **Med Educ** 1990 May;24(3):243–50
A factor analytic study of clinical competence in undergraduate psychiatry. McFarlane AC, et al. **Med Educ** 1989 Sep;23(5):422–8
Academic selection criteria and subsequent performance. Montague W, et al. **Med Educ** 1990 Mar;24(2):151–7
Family and community health in a new medical school. Musgrove JP. **Med Educ** 1990 Mar;24(2):124–8
Learning human anatomy: by dissection or from prosections? Nnodim JO. **Med Educ** 1990 Jul;24(4):389–95
Computer education of undergraduate medical students: a 2–year experience. Oliveira AG, et al. **Med Educ** 1989 Nov; 23(6):522–5
The effect of first clinical clerkship on medical students' specialty choices. Potts MJ, et al. **Med Educ** 1989 Sep; 23(5):413–5
Academic performance of students admitted after repeating entrance examinations to medical school. Price J, et al. **Med Educ** 1990 May;24(3):212–8
The effect of clerkship site on medical student examination grades. Puryear DA, et al. **Med Educ** 1990 May; 24(3):239–42
Residency performance of graduates from a problem–based and a conventional curriculum. Santos–Gomez L, et al. **Med Educ** 1990 Jul;24(4):366–75
Medical student experience of London general practice teaching attachments. Schamroth AJ, et al. **Med Educ** 1990 Jul;24(4):354–8
Small–group interactive computer–assisted teaching. Shannon JD. **Med Educ** 1990 Mar;24(2):148–50
Comparison of performance of students from different high school systems in medical sciences at Kuwait University [letter; comment] Shuqaidef S. **Med Educ** 1990 May; 24(3):313–4 Comment on: Med Educ 1989 Jul;23(4):395–8.
Insight of first–year medical students into their future working conditions. Underwood MJ, et al. **Med Educ** 1990 May;24(3):210–1
Do medical students get what they expect? A study of possible mismatch between the expectations and experience of medical education and practice. Warren VJ, et al. **Med Educ** 1990 Mar;24(2):178–80
Learning within practice. Cox K. **Med J Aust** 1990 Jun 4; 152(11):565–7
Multiculturalism and medicine in Australia [editorial] Doherty RL. **Med J Aust** 1989 Nov 20;151(10):545–6
Teaching the therapeutic value of personality [editorial] Maddocks I. **Med J Aust** 1990 Jan 1;152(1):2–3
Review of the phase I and phase II teaching programmes in the School of Medical Sciences, Universiti Sains Malaysia. Roslani AM, et al. **Med J Malaysia** 1989 Mar; 44(1):75–82
Is it worth it? A look at the costs and benefits of an OSCE for second–year medical students. Frye AW, et al. **Med Teach** 1989;11(3–4):291–3
Scheduling lectures in a teaching hospital. Gallivan S, et al. **Med Teach** 1989;11(3–4):303–8
Computer–based exercises in anemia diagnosis (PlanAlyzer). Beck JR, et al. **Methods Inf Med** 1989 Nov;28(4):364–9
Interactive videodisc as an instructional tool in medical education. Culbert AJ Jr, et al. **Methods Inf Med** 1989 Nov; 28(4):357–9
Iliad: moving medical decision–making into new frontiers. Warner HR Jr. **Methods Inf Med** 1989 Nov;28(4):370–2
Modern medical training confronts Guatemalan poverty. Westreich L. **Minn Med** 1990 Jan;73(1):19, 21–2
Can ethics be taught? An essay. Pellegrino EP. **Mt Sinai J Med** 1989 Nov;56(6):490–4
The North Carolina Student Rural Health Coalition enters the medical school curriculum. The Duke rural health elective. Brown JT, et al. **N C Med J** 1990 Aug;51(8):385–8
The awarding of honors to medical clerks. Results of a national survey. Rosner F, et al. **N Y State J Med** 1989 Oct;89(10):562–5
Behavioural science at the Auckland Medical School: introduction and evaluation of a revised programme. Raeburn JM, et al. **N Z Med J** 1989 Dec 13;102(881):642–4
Some thoughts on undergraduate medical education. Richards JG. **N Z Med J** 1990 Mar 14;103(885):103–4
Clinicians wanted [letter] Sinclair JD. **Nature** 1990 Sep 13; 347(6289):116
Use of a computer simulation to evaluate a seminar on child abuse. Kost S, et al. **Pediatr Emerg Care** 1989 Sep; 5(3):202–3
Insights into some aspects of clinical education—I. Clinical practice. Balla JI. **Postgrad Med J** 1990 Mar;66(773):212–7
Medical training in Belgium: a year in Brussels. Smellie WS. **Postgrad Med J** 1989 Dec;65(770):955–6
Why teach basic sciences in medical school? [editorial] Sapira JD. **South Med J** 1990 Sep;83(9):994–5
A statement concerning neurosurgery in the undergraduate medical curriculum. Stern WE. **Surg Neurol** 1990 Jan; 33(1):5–6
Do first– and second–year preclinical course scores predict student performance during the surgical clerkship? Baciewicz FA Jr, et al. **Surgery** 1990 May;107(5):581–3
Test performance of a local examination at a nonlocal site for evaluation of surgical clerks. Dunnington G, et al. **Surgery** 1990 Aug;108(2):236–9
[An innovative program for teaching social medicine at the Medical School for Hygiene at Charles University] Smolka M. **Cesk Zdrav** 1989 Nov;37(11):469–72 (Eng. Abstr.) **(Cze)**
[Testing student knowledge of emergency care at the Charles University School of General Medicine and the processing of certain conditions in primary emergency care into computerized educational training models] Souček P, et al. **Cesk Zdrav** 1990 Jan;38(1):24–9 (Eng. Abstr.) **(Cze)**
[Primary emergency care in undergraduate education] Vrbová H. **Cesk Zdrav** 1990 Mar;38(3):115–9 (Eng. Abstr.) **(Cze)**
[Practical possibilities in the participation of libraries and information centers in undergraduate medical education] Spála M. **Sb Lek** 1989 Nov;91(11–12):321–6 (Eng. Abstr.) **(Cze)**
[Comparison of the diagnostic performance of students of the old and new medical curriculum at the Laval University (published erratum appears in Union Med Can 1989 Nov–Dec;118(6):253)] Bordage G, et al. **Union Med Can** 1989 Sep–Oct;118(5):187–8, 191–2, 194–5 (Eng. Abstr.) **(Fre)**
[Illustrations in medical education] Johansen O, et al. **Nord Med** 1989;104(11):302–3 (Eng. Abstr.) **(Nor)**
[Problem of making and using specialized training devices in pediatrics] Dorofeeva GD, et al. **Pediatriia** 1990;(2):71–3 **(Rus)**
[Organization of the emergency care course for undergraduate students of the therapeutics department] Lazebnik LB, et al. **Sov Med** 1989;(7):67–9 **(Rus)**
[Practical games as a form for problem–oriented instruction in a department of internal diseases during undergraduate training] Zaretskiĭ MM, et al. **Ter Arkh** 1990;62(1):126–8 **(Rus)**
[Experience in the organization of clinical clerkship in ophthalmology] Krol' DS, et al. **Vestn Oftalmol** 1989 Nov–Dec;105(6):59–60 **(Rus)**
[Teaching internal medicine at the School of Medicine (editorial)] Guardia J. **Neurologia** 1986 Mar–Apr;1(2):49–50 **(Spa)**
[Relevancy of the clinical subjects in medical training] de Juan J, et al. **Rev Clin Esp** 1989 Sep;185(4):202–7 (Eng. Abstr.) **(Spa)**
[Hospital activities of surgery undergraduates] Díez Miralles M, et al. **Rev Clin Esp** 1990 Apr;186(7):341–6 (Eng. Abstr.) **(Spa)**

[Propedeutic course in the medical school at Panama University in 1989] de Camargo BS, et al. **Rev Med Panama** 1990 Jan;15(1):59–65 (Eng. Abstr.) **(Spa)**

ECONOMICS

How to pay your way through medical school. Armstrong AP. **BMJ** 1990 Feb 17;300(6722):453–4

Academic occupational health under threat [letter; comment] Seaton A, et al. **BMJ** 1989 Sep 2;299(6699):623–4 Comment on: BMJ 1989 Jul 8;299(6691):74.

Impact of presence and discontinuation of federal support of cancer education programs [letter] **J Cancer Educ** 1986; 1(2):65–8

Education and training programs at the National Cancer Institute: 1938–1982. Edwards MH. **J Cancer Educ** 1986; 1(1):5–11

Funding for cancer education. Myers WP. **J Cancer Educ** 1986;1(2):61–4

Funding for undergraduate experience in pathology [letter; comment] Khong TY. **J Pathol** 1989 Oct;159(2):173 Comment on: J Pathol 1989 Mar;157(3):187–9.

Factors modifying duration of drug action: a practical for large undergraduate classes on limited laboratory space, staff and budget. Kwanashie KO, et al. **Med Educ** 1989 Sep;23(5):409–12

Affording medical training [letter; comment] **N Engl J Med** 1989 Nov 23;321(21):1482–3 Comment on: N Engl J Med 1989 Jun 15;320(24):1630.

Undergraduate medical education; the case for a student loan scheme. Baxter JN. **N Z Med J** 1990 Aug 22;103(896):405–7

HISTORY

Au lit des malades: A.F. Chomel's Clinic at the Charite, 1828–9. Jacyna LS. **Med Hist** 1989 Oct;33(4):420–49

An underground medical school in the Warsaw ghetto, 1941–2. Roland CG. **Med Hist** 1989 Oct;33(4):399–419

The educational process at the Mount Sinai School of Medicine: the first 25 years. Stimmel BD. **Mt Sinai J Med** 1989 Oct;56(5):375–82

Aequanimitas centennial. Anders DL. **South Med J** 1989 Nov;82(11):1403–4

LEGISLATION & JURISPRUDENCE

The legal context for evaluating and dismissing medical students and residents. Irby DM, et al. **Acad Med** 1989 Nov;64(11):639–43

MANPOWER

The declining applicant pool and MCAT scores. Clark DS, et al. **Acad Med** 1990 Mar;65(3):219–20

Physician manpower: surplus or shortage. Marconis JT. **Pa Med** 1989 Oct;92(10):32, 34, 36

METHODS

The effect of surgery clerkship timing on fourth-year students' surgery knowledge. Baciewicz FA Jr, et al. **Acad Med** 1990 Aug;65(8):543

College health services as a site for ambulatory care training of residents and medical students. Chuck JM, et al. **Acad Med** 1990 Aug;65(8):527–9

The association between students' research involvement in medical school and their postgraduate medical activities. Segal S, et al. **Acad Med** 1990 Aug;65(8):530–3

Teaching physical diagnosis in the nursing home. Grady MJ, et al. **Am J Med** 1990 May;88(5):519–21

A plea for role models [letter] Goldman LI. **Arch Surg** 1990 Sep;125(9):1224

Strategies for integrating clinical preventive medicine into family medicine clerkships. Kligman EW, et al. **Fam Med** 1990 Jul–Aug;22(4):279–83

Integrated oncology course for first-year medical students. Bosman FT. **J Cancer Educ** 1987;2(2):129–33

Application of cancer prevention knowledge: a longitudinal follow-up study of medical students. Chamberlain RM, et al. **J Cancer Educ** 1987;2(2):93–106

Design, implementation, and evaluation of a longitudinal cancer curriculum. Costanza ME, et al. **J Cancer Educ** 1987;2(4):217–23

An integrated oncology course for second year medical students. Luedke DW, et al. **J Cancer Educ** 1987;2(3):153–8

A cancer screening skills laboratory for medical students. Merlo KB, et al. **J Cancer Educ** 1987;2(4):225–8

A first-year medical school pilot program for early clinical exposure. Nathanson L, et al. **J Cancer Educ** 1987; 2(2):107–11

Computer-assisted instruction in cancer for third-year medical students using the Physician Data Query (PDQ) system. Ringenberg QS, et al. **J Cancer Educ** 1989;4(1):11–5

Use of interactive videodisc for teaching of pathology laboratory cases. Kumar K, et al. **J Pathol** 1990 Feb; 160(2):145–9

General pathology teaching at the University of Washington. Monnat RJ Jr. **J Pathol** 1989 Dec;159(4):345–9

Students teaching students: a medical school peer tutorial programme. Schaffer JL, et al. **Med Educ** 1990 Jul; 24(4):336–43

Making medical schools' activities relevant to the local community. **Med J Aust** 1989 Sep 18;151 Suppl:S13–7, S20–2

Praise for problem-based learning [letter] **Postgrad Med** 1990 Sep 15;88(4):32, 35

ORGANIZATION & ADMINISTRATION

Independent study in medical science. Dohner CW, et al. **Acad Med** 1989 Nov;64(11):653–4

A comparison of students in six-year and traditional eight-year medical school programs on measures of personality and stress early in medical school. Nathan RG, et al. **Acad Med** 1989 Nov;64(11):690

Where are the clinical role models? Greganti MA. **Arch Intern Med** 1990 Feb;150(2):259–61

Objectives of an elective in clinical nutrition. Shike M. **Bull N Y Acad Med** 1989 Nov;65(9):995–7

Regional nutrition center activities. Shils ME. **Bull N Y Acad Med** 1989 Nov;65(9):915–7

Profile of student clerkship administration in obstetrics and gynecology. Herbert WN, et al. **Obstet Gynecol** 1990 Jul; 76(1):153–5

STANDARDS

Evaluation of students in medicine clerkships. Magarian GJ, et al. **Acad Med** 1990 May;65(5):341–5

Traditional predictors of performance in medical school [see comments] Mitchell KJ. **Acad Med** 1990 Mar;65(3):149–58 (32 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Predicting minority students' success in medical school [see comments] Sedlacek WE, et al. **Acad Med** 1990 Mar; 65(3):161–6 (65 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Structured single-observer methods of evaluation for the assessment of ward performance on the surgical clerkship. Dunnington G, et al. **Am J Surg** 1990 Apr;159(4):423–6

Nutrition [letter] Boulton J. **Aust Fam Physician** 1990 Aug; 19(8):1301

Inequalities in undergraduate dermatology [letter] Carmichael AJ, et al. **Clin Exp Dermatol** 1989 Nov; 14(6):470

Teaching and training in obstetrics and gynaecology. Pecorari D. **Clin Exp Obstet Gynecol** 1990;17(1):1–4

Present status of undergraduate urological education in Turkey: is standardization necessary? Akdaş A, et al. **Eur Urol** 1990;17(3):213–5

Gender and the educational experience in a primary care training setting. Wollstadt LJ, et al. **Fam Med** 1990 May–Jun;22(3):210–4

Communication skills training in undergraduate medicine. Doherty E, et al. **Ir Med J** 1990 Jun;83(2):54–6

If I were dean. Petersdorf RG. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:39S–48S

What medical graduates need to know but don't learn in medical school. Relman AS. **J Am Board Fam Pract** 1990 Apr–Jun;3 Suppl:49S–53S

Surgical oncology education in US and Canadian medical schools. Bernard LJ, et al. **J Cancer Educ** 1988;3(4):239–42

Undergraduate oncology education in Scandinavia. Brincker H. **J Cancer Educ** 1988;3(2):97–101

Undergraduate teaching of oncology in Argentina. Estévez RA, et al. **J Cancer Educ** 1988;3(2):111–5

Essay questions on exams [letter] Horton J. **J Cancer Educ** 1988;3(2):145–7

Breast cancer examination experience of medical students and residents. Kennedy BJ, et al. **J Cancer Educ** 1988;3(4):243–5

Educating physicians for the twenty-first century—some proposals for cancer education. Neufeld VR. **J Cancer Educ** 1988;3(1):11–20

Appropriate medical education [letter] Saltzstein SL. **J Cancer Educ** 1988;3(2):145

Evaluation of an oncology curriculum. Weidner J, et al. **J Cancer Educ** 1990;5(1):37–41

National boards and the minority medical student [editorial] Epps AC. **J Natl Med Assoc** 1990 Mar;82(3):161–3

Academic standards and changing patterns of medical school admissions: a Malaysian study. Tan CM. **Med Educ** 1990 Jul;24(4):319–27

Methods and models for introducing nutrition into the medical curriculum. **Med J Aust** 1989 Sep 18;151 Suppl:S9–13

Objectives for nutrition in the medical curriculum. **Med J Aust** 1989 Sep 18;151 Suppl:S3–8

Nutrition in medical education. Proceedings of a seminar. September 15–16, 1988, Port Stephens. **Med J Aust** 1989 Sep 18;151 Suppl:S2–22

San Diego Workshop on Nutrition in Medical Education. The Third International Symposium on Clinical Nutrition. San Diego, April 27–29, 1987. Proceedings. **Med J Aust** 1989 Sep 18;151 Suppl:S23–36

Nutritional education in US medical schools. The Committee on Nutrition in Medical Education. Berkow SE. **Med J Aust** 1989 Sep 18;151 Suppl:S27–9 (1 ref.)

Medical education for a multicultural society. Eisenbruch M. **Med J Aust** 1989 Nov 20;151(10):574–6, 579–80

Lecture note-taking, learning and recall. Isaacs G. **Med Teach** 1989;11(3–4):295–302

A problem-based clinical course in general internal medicine. McLeod PJ, et al. **Med Teach** 1989;11(2):169–75

Review committee on medical education [letter] Haddon OB. **N Z Med J** 1990 Jan 24;103(882):22

Undergraduate medical education [letter; comment] Thorpe JH. **West J Med** 1989 Dec;151(6):667–8 Comment on: West J Med 1989 Aug;151(2):194.

[Should medical research form an integral part of the undergraduate medical curriculum?] Lochner JD. **S Afr Med J** 1990 Mar 17;77(6):276–9 **(Afr)**

[Undergraduate medical education] Idezuki Y. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1490–1 **(Jpn)**

[Predicting the study progress of medical students] Lemiasev MF, et al. **Gig Sanit** 1989 Nov;(11):27–9 **(Rus)**

[Various characteristics of the organization and form of independent training of surgeons at the Chair of Surgery of the Institute for the Advanced Training of Physicians] Chernobrovyi NP, et al. **Klin Khir** 1989;(11):45–6 **(Rus)**

[Ways of stimulating independent training of students of surgical disciplines] Gredzhev AF, et al. **Klin Khir** 1989; (11):44 **(Rus)**

[Development of clinical thinking of a subintern on the topic "Gastroenterology in children"] Druzhinina EI. **Pediatriia** 1990;(1):89–91 **(Rus)**

[Acquiring practical skills by subinterns in the early detection and prevention of tuberculosis] Fomicheva NI, et al. **Probl Tuberk** 1990;(1):19–20 (Eng. Abstr.) **(Rus)**

STATISTICS & NUMERICAL DATA

The effect of the Vietnam War on numbers of medical school applicants. Singer A. **Acad Med** 1989 Oct;64(10):567–73 (16 ref.)

TRENDS

The education of the physician. Clawson DK. **Acad Med** 1990 Feb;65(2):84–8

The education of medical students: sounds, alarums, and excursions. Federman DD. **Acad Med** 1990 Apr;65(4):221–6

Second Conference on Nutrition Teaching in Medical Schools. **Bull N Y Acad Med** 1989 Nov;65(9):910–1003

Use of food frequency questionnaire results to emphasize nutritional concepts for first year medical students—Medical College of Virginia. Banks WL Jr, et al. **Bull N Y Acad Med** 1989 Nov;65(9):928–34; discussion 937–8

The nutrition program for medical students at New York Medical College. Cooperman JM. **Bull N Y Acad Med** 1989 Nov;65(9):950–1; discussion 962–3

Newer methods in education: computer assisted instruction. Fahl J. **Bull N Y Acad Med** 1989 Nov;65(9):998–1003

Experiences in presenting nutrition in basic science courses. Karp R. **Bull N Y Acad Med** 1989 Nov;65(9):921–3; discussion 937–8

Experiences in presenting nutrition in basic science courses—SUNY/Health Science Center at Brooklyn. Kesner L. **Bull N Y Acad Med** 1989 Nov;65(9):924–7; discussion 937–8

The view from the dean's office. Kuperman A. **Bull N Y Acad Med** 1989 Nov;65(9):964–6; discussion 971–4

Experiences with required and elective didactic courses—Mount Sinai School of Medicine. LeLeiko N. **Bull N Y Acad Med** 1989 Nov;65(9):939–40; discussion 962–3

Experiences with required and elective didactic courses—Cornell University Medical College. Levine B. **Bull N Y Acad Med** 1989 Nov;65(9):941–5; discussion 962–3

Regional nutrition center activities. Lowell B. **Bull N Y Acad Med** 1989 Nov;65(9):918–20

Experiences with required and elective didactic courses—UMDNJ/New Jersey Medical School. Munves E. **Bull N Y Acad Med** 1989 Nov;65(9):959–61; discussion 962–3

Experiences with required and elective didactic courses—SUNY/Health Science Center at Stony Brook. Olson RE. **Bull N Y Acad Med** 1989 Nov;65(9):955–8; discussion 962–3

Experiences with required and elective didactic courses—New York College of Osteopathic Medicine. Plotnick S. **Bull N Y Acad Med** 1989 Nov;65(9):946–7; discussion 962–3

The missing link: formal case related teaching in clinical clerkships. Shils ME. **Bull N Y Acad Med** 1989 Nov; 65(9):975–81; discussion 992–4

Experiences with required and elective didactic courses—UMDNJ/New Jersey School of Osteopathic Medicine. Stein TP. **Bull N Y Acad Med** 1989 Nov; 65(9):948–9; discussion 962–3

Experiences in presenting nutrition in basic science courses—UMDNJ/Robert Wood Johnson School of Medicine. Stevenson N. **Bull N Y Acad Med** 1989 Nov; 65(9):935–6; discussion 937–8

Report on nutrition education in United States medical schools. Winick M. **Bull N Y Acad Med** 1989 Nov; 65(9):910–4

Experiences with required and elective didactic courses—Albert Einstein College of Medicine. Wylie-Rosett J. **Bull N Y Acad Med** 1989 Nov;65(9):952–4; discussion 962–3

Nutrition teaching in medical schools. Zimmerman V. **Bull N Y Acad Med** 1989 Nov;65(9):967–70; discussion 971–4

The undergraduate medical curriculum. Bourke GJ. **Ir Med J** 1989 Dec;82(4):143–5

Military externships: recruitment friend or foe? Sparks BI 3d. **J Am Optom Assoc** 1990 Jun;61(6):471–3

Otolaryngology in the curriculum—10 years on: discussion paper. Lund VJ. **J R Soc Med** 1990 Jun;83(6):377–9

Undergraduate medical education. Jonas HS, et al. **JAMA**

1990 Aug 15;264(7):801–9
An innovation in teaching ethics to medical students. Lovett LM, et al. **Med Educ** 1990 Jan;24(1):37–41
The New Zealand Report of the cervical cancer inquiry: significance for medical education. Jones DG. **Med J Aust** 1989 Oct 16;151(8):450, 452, 454, 456
Some solutions to the shortage of general practitioners in rural Australia. Part 2. Undergraduate education. Kamien M, et al. **Med J Aust** 1990 Jul 16;153(2):107–8, 112
Nutrition and undergraduate medical education—international trends. Vobecky JS. **Med J Aust** 1989 Sep 18;151 Suppl:S23–5 (25 ref.)
The changing face of medical education at Otago Medical School: the contribution of clinical biochemistry. Schwartz PL. **N Z Med J** 1990 Jun 13;103(891):269–71
Medical school without lectures! Griffin GC. **Postgrad Med** 1990 Jun;87(8):15–6, 19–20
[Trends in undergraduate medical education] Benbassat J. **Harefuah** 1990 Jan 15;118(2):99–102 **(Heb)**
[Clinical games in the training of public health physicians] Shpirt MB, et al. **Gig Sanit** 1989 Jun;(6):34–6 **(Rus)**
[Open letter concerning the article by Iu.T. Tsukanov "Experience with using simulation games in the training in clinical surgery" ("Khirurgiia", No. 6, 1989, pp. 5–8)] Kruk IN. **Khirurgiia (Mosk)** 1990 May;(5):123–5 **(Rus)**

EDUCATION, NURSING

RNs urge AIDS curriculum [news] **Am J Nurs** 1990 Mar; 90(3):28
Art in nursing [letter] Allen CV. **Am J Nurs** 1990 Feb; 90(2):34
The computer as teacher. Arnold JM. **Am J Nurs** 1990 Apr; 90(4):106
Learning the art and craft of nursing. Diers D. **Am J Nurs** 1990 Jan;90(1):64–6
From provider to partner: a conceptual framework for nursing education based on primary health care premises. Stewart MJ. **ANS** 1990 Jan;12(2):9–27
OR nurse day—a day for education, not candy and roses [editorial] [see comments] Palmer PN. **AORN J** 1989 Nov; 50(5):953–4 Comment in: AORN J 1990 Mar;51(3):674.
IBM, education, and you [interview] Cotter H. **Comput Nurs** 1990 Jan–Feb;8(1):34–5
IBM, education, and you. An interview with Herb Cotter, Director of Academic Computing for IBM [interview] Cotter H. **Comput Nurs** 1989 Nov–Dec;7(6):273–7
Authoring options for computer assisted nursing instruction. Gerheim SM. **Comput Nurs** 1990 Jan–Feb;8(1):29–33
Factors influencing the development and use of interactive video in nursing education. A Delphi study. Rizzolo MA. **Comput Nurs** 1990 Jul–Aug;8(4):151–9
The conviction to care. The McKinney Scholarship Fund. Chang DS. **Conn Med** 1989 Nov;53(11):665–8
The nurse who specializes in geriatrics. Bevil CA. **Geriatrics** 1990 Feb;45(2):59–61
Nursing, ethics, & professional roles. Hilliard MT. **Hastings Cent Rep** 1990 Jan–Feb;20(1):2
A history of the Florence Nightingale International Foundation. Beck FS. **Int Nurs Rev** 1989 Nov–Dec; 36(6):176–8, 188
Moral learning in nursing education: a discussion of the usefulness of cognitive–developmental and social learning theories. Callery P. **J Adv Nurs** 1990 Mar;15(3):324–8
Computer training in nurse education: a bird's eye view across the UK. Chambers M, et al. **J Adv Nurs** 1990 Jan; 15(1):16–21
Creative international networking towards academic nursing education and research in The Netherlands. Diepeveen–Speekenbrink JC. **J Adv Nurs** 1990 Jun; 15(6):738–43
Acquired immunodeficiency syndrome (AIDS): a message for nurses [editorial] Smith JP. **J Adv Nurs** 1990 May; 15(5):501
Foundation of nursing studies: major new resource for nursing in the United Kingdom [editorial] Smith JP. **J Adv Nurs** 1989 Oct;14(10):803–4
Moral education for nursing decisions. van Hooft S. **J Adv Nurs** 1990 Feb;15(2):210–5
Focus on education: the Georgia League for Nursing. Bachelier K. **J Med Assoc Ga** 1990 Feb;79(2):99–100
Nursing diagnosis: a strategy for teaching etiologies. Foote AW, et al. **J Neurosci Nurs** 1989 Oct;21(5):305–7
Needed: a trial of competence [editorial] de Tornyay R. **J Nurs Educ** 1989 Nov;28(9):390
Focusing on learning [editorial] de Tornyay R. **J Nurs Educ** 1989 Sep;28(7):294
Encouraging risk–taking by creating trust [editorial] de Tornyay R. **J Nurs Educ** 1990 Feb;29(2):51
Preserving the practice of teaching in nursing [editorial] Diekelmann NL. **J Nurs Educ** 1990 May;29(5):195
Mathematical calculations in nursing education: whose responsibility is it, anyway? [editorial] Eaton S. **J Nurs Educ** 1989 Oct;28(8):342
The one minute clinical instructor: an application of the principles of the one minute manager. Greer PS. **J Nurs Educ** 1990 Jan;29(1):37–8
AIDS education and patient care experiences of senior nursing students in Buffalo, New York: a research brief. Haughey BP, et al. **J Nurs Educ** 1990 May;29(5):234–5
Young scholars' program: an innovative educational recruitment strategy. Kowatsch J, et al. **J Nurs Educ** 1989 Nov;28(9):425–6
The politics of education are getting clearer [editorial] Moccia P. **J Nurs Educ** 1990 Jan;29(1):3
Diagnostic evaluation and grading in nursing laboratory courses. Wilhite MJ. **J Nurs Educ** 1990 Jan;29(1):39–40
Metacognition: implications for instruction in nursing education. Worrell PJ. **J Nurs Educ** 1990 Apr;29(4):170–5
Effects of a persuasive communication on beliefs, attitudes, and career choice. Strader MK, et al. **J Soc Psychol** 1990 Apr;130(2):141–50
Reliability and learning from the objective structured clinical examination. Roberts J, et al. **Med Educ** 1990 May; 24(3):219–23
The case for teaching nursing ethics. Kasachkoff T. **Med Law** 1989;8(6):593–9
Ethical decision making in clinical practice. Fowler MD. **Nurs Clin North Am** 1989 Dec;24(4):955–65 (28 ref.)
The nursing shortage: dynamics and solutions. A response from an educational perspective. Martin CE. **Nurs Clin North Am** 1990 Sep;25(3):561–8
The nursing shortage: dynamics and solutions. The three R's: recruitment, restructuring the environment, and reformulating the curriculum. Regan PF. **Nurs Clin North Am** 1990 Sep;25(3):517–24
Use of computer–assisted instruction in the health sciences. Lassan R. **Nurs Forum** 1989;24(2):13–7
A delicate dose of humor. Rosenberg L. **Nurs Forum** 1989; 24(2):3–7
Self–evaluation for nursing students. Best M, et al. **Nurs Outlook** 1990 Jul–Aug;38(4):172–7
Thoughts on the nursing shortage [letter] Carrington BW. **Nurs Outlook** 1989 Nov–Dec;37(6):256
Clinical scholarship rethought [letter; comment] Diers D. **Nurs Outlook** 1989 Nov–Dec;37(6):257 Comment on: Nurs Outlook 1989 Jul–Aug;37(4):160.
Model preceptorship, 1948 [letter] Schwartz D. **Nurs Outlook** 1989 Nov–Dec;37(6):257
U.S. embargo on health care literature [letter] Swanson J. **Nurs Outlook** 1990 Mar–Apr;38(2):58–9
Déjà Vu [letter] Woolley AS. **Nurs Outlook** 1989 Nov–Dec; 37(6):257
The electronic media—a teaching strategy for nursing history. Hoerl–Labrie BM. **West J Nurs Res** 1990 Feb; 12(1):119–22
[Teaching nursing homes in the United States] Lucille AJ. **Chung Hua Hu Li Tsa Chih** 1989 Sep;24(9):515–7 **(Chi)**
[Studies of dermatologic fitness in applicants for medical specialty occupations] Meyer J, et al. **Z Gesamte Hyg** 1989 Sep;35(9):556–8 (Eng. Abstr.) **(Ger)**
[Characterization of the teaching in Hansen's disease in the undergraduate nursing education in the State of São Paulo] Pedrazzani ES. **Hansenol Int** 1987 Jun;12(1):12–8 (Eng. Abstr.) **(Por)**
[Problems in organizing an academic course on the care of patients in a department of treatment and prevention] Reutskil IA, et al. **Ter Arkh** 1990;62(1):128–30 **(Rus)**

ECONOMICS

Prodded by nurse legislators, states spend more on students [news] **Am J Nurs** 1989 Nov;89(11):1536, 1552, 1558
New federal regs will make student loans harder to find [news] **Am J Nurs** 1989 Nov;89(11):1538, 1554
P.R.I.C.E.—a funding model for educational viability. Santo–Novak DA. **J Nurs Educ** 1990 Mar;29(3):142–4

HISTORY

Our mothers' stories. Wuthnow S. **Nurs Outlook** 1990 Sep–Oct;38(5):218–22
[S.P. Botkin and current medical problems] Komarov FI. **Klin Med (Mosk)** 1989 Dec;67(12):4–8 **(Rus)**

MANPOWER

The next shortage—the nurse educator. Mullinix CF. **J Prof Nurs** 1990 May–Jun;6(3):133

METHODS

Caring as a value in nursing education. Tanner CA. **Nurs Outlook** 1990 Mar–Apr;38(2):70–2

STANDARDS

Excellence in nursing. 1969 [classical article] Henderson V. **Am J Nurs** 1990 Apr;90(4):76–7
Of computers and academic freedom [editorial] Hales GD. **Comput Nurs** 1989 Sep–Oct;7(5):196–7
Critical appraisal of the Scottish registered mental nurse training programme in relation to the care of the person with affective disorder. Barker PJ. **J Adv Nurs** 1989 Dec; 14(12):1016–25
Programme evaluation in nursing education: the state of the art. Watson JE, et al. **J Adv Nurs** 1990 Mar;15(3):316–23
Teaching as a scholarly activity [editorial] de Tornyay R. **J Nurs Educ** 1990 Jun;29(6):243

TRENDS

Postcolonial nursing education in Trinidad and Tobago. Hezekiah J. **ANS** 1990 Jan;12(2):28–36
NY nursing career ladder creates a win–win situation. Eubanks P. **Hospitals** 1990 Jun 5;64(11):59
Nursing in the 21st century in Latin America: Part I—Education. de Monterrossa E, et al. **Int Nurs Rev** 1990 Mar–Apr;37(2):232–8
Nursing practitioners, researchers, teachers and managers all have the same goal [editorial] Alexander MF. **J Adv Nurs** 1989 Dec;14(12):991–2
Education. Redefining community. Hegyvary ST. **J Prof Nurs** 1990 Jan–Feb;6(1):7
A new melting pot. Hegyvary ST. **J Prof Nurs** 1990 May–Jun;6(3):135
Addressing supply and demand. Hegyvary ST. **J Prof Nurs** 1990 Mar–Apr;6(2):71
The cursor is blinking. Scearse PD. **J Prof Nurs** 1989 Nov–Dec;5(6):300
A solution to the nursing shortage? Kirk K. **Ohio Med** 1990 Jan;86(1):26–8

EDUCATION, NURSING, ASSOCIATE

Survey of diabetes curriculum in schools of nursing [letter] Haire–Joshu D, et al. **Diabetes Care** 1990 Jul;13(7):812–3
Accelerated LPN–RN nursing education: is role socialization lost along the way? Boyar DC, et al. **J Nurs Educ** 1989 Oct;28(8):361–5
A comparison of algorithmic and teacher–directed instruction in dosage calculation presented via whole and part methods for associate degree nursing students. Connor SE, et al. **J Nurs Educ** 1990 Jan;29(1):31–6
Mathematics anxiety and its effect on drug dose calculation. Fulton WH, et al. **J Nurs Educ** 1989 Oct;28(8):343–6
Diffusion of associate degree nursing programs among U.S. community colleges. Geis MJ. **J Nurs Educ** 1990 Apr; 29(4):176–82
Effect of a career decision–making course on the career planning of nursing students. Hay CL, et al. **J Nurs Educ** 1989 Sep;28(7):298–301
Academic predictors of success on the NCLEX–RN examination for associate degree nursing students. Lengacher CA, et al. **J Nurs Educ** 1990 Apr;29(4):163–9
Risk–taking propensity of nurses: ADN and BSN. Masters ML, et al. **J Nurs Educ** 1989 Nov;28(9):391–6

STANDARDS

Attitudes regarding basic nursing programs: ratings of baccalaureate, associate degree and diploma prepared RNs in the northwest. Schumann LL. **J Nurs Educ** 1990 Feb; 29(2):71–8

EDUCATION, NURSING, BACCALAUREATE

We cannot afford to ignore economics in nursing curricula. Greenfield JM. **AORN J** 1990 May;51(5):1384–6
Gerontology courses for undergraduate and graduate students—and for seniors themselves. Schlepp S. **AORN J** 1990 Jun;51(6):1484–92
Authoring systems. Finding the right tool for your courseware development project. Christensen MN, et al. **Comput Nurs** 1990 Mar–Apr;8(2):73–9
Nursing, teaching and computers—my experiences. Cooper MH. **Comput Nurs** 1990 Mar–Apr;8(2):51, 79
Scheduling by computer. Younger JB. **Comput Nurs** 1990 Jul–Aug;8(4):165–73
Survey of diabetes curriculum in schools of nursing [letter] Haire–Joshu D, et al. **Diabetes Care** 1990 Jul;13(7):812–3
Psychiatric nursing in Poland. Plotka A. **Int Nurs Rev** 1990 May–Jun;37(3):280–1
The effect of education on nurses' perception of AIDS. Armstrong–Esther C, et al. **J Adv Nurs** 1990 Jun; 15(6):638–51
A conceptual approach to the identification of essential ethics content for the undergraduate nursing curriculum. Quinn CA. **J Adv Nurs** 1990 Jun;15(6):726–31
Debate: a strategy for increasing interaction in audio teleconferencing. Wuest J. **J Adv Nurs** 1989 Oct; 14(10):847–52
Community health practicum with an oncology nursing focus. Coleman EA, et al. **J Cancer Educ** 1986;1(2):95–102
Co–assessment as a unique approach to measuring students' clinical abilities. Anderson E, et al. **J Nurs Educ** 1990 Jan; 29(1):42–3
A comprehensive approach to preparation for NCLEX–RN. Baradell JG, et al. **J Nurs Educ** 1990 Mar;29(3):109–13
Strategy for reinforcing drug knowledge and accountability in drug administration. Blue CL. **J Nurs Educ** 1989 Oct; 28(8):381–2
Healthworks: a leadership experience. Cantrall JM, et al. **J Nurs Educ** 1989 Sep;28(7):323–5
Inter–university collaboration in the development of a distance education course in community health nursing. De Jonge J, et al. **J Nurs Educ** 1989 Sep;28(7):325–7
Explaining differences in NCLEX–RN scores with certain cognitive and non–cognitive factors for new baccalaureate nurse graduates. Dell MS, et al. **J Nurs Educ** 1990 Apr; 29(4):158–62
BSN courses for students via satellite. Douglas BH, et al. **J Nurs Educ** 1989 Nov;28(9):428–30
Leadership: by the pros, for the novice. Eason FR, et al. **J Nurs Educ** 1990 Apr;29(4):188–9
Pathways to information literacy. Fox LM, et al. **J Nurs Educ** 1989 Nov;28(9):422–5
Infection control programmed instruction: an alternative to classroom instruction in baccalaureate nursing education. Goldrick B, et al. **J Nurs Educ** 1990 Jan;29(1):20–5

Community health nursing practice for students in an outreach BSN program in rural North Carolina. Havens BB, et al. **J Nurs Educ** 1989 Oct;28(8):384–6
Concept–based learning activities in clinical nursing education. Heims ML, et al. **J Nurs Educ** 1990 Jun; 29(6):249–54
Elective preceptorship: a cooperative opportunity for baccalaureate nursing education and nursing service. Hovey SR, et al. **J Nurs Educ** 1990 Jun;29(6):285–7
Education for sexual health care. Katzman EM. **J Nurs Educ** 1990 Mar;29(3):141–2
The one–to–one relationship: an alternative to the psychiatric setting for baccalaureate students in psychosocial nursing. Klisch ML. **J Nurs Educ** 1990 Feb;29(2):92–4
Building undergraduate nursing students' knowledge of the research process in nursing. Laschinger HS, et al. **J Nurs Educ** 1990 Mar;29(3):114–7
Marketing of nursing education: a case study. Leigh LE, et al. **J Nurs Educ** 1990 Mar;29(3):134–7
A comparative study of learning characteristics of RN and generic students. Linares AZ. **J Nurs Educ** 1989 Oct; 28(8):354–60
Risk–taking propensity of nurses: ADN and BSN. Masters ML, et al. **J Nurs Educ** 1989 Nov;28(9):391–6
Student clinical experience with persons who are HIV–positive or have ARC/AIDS: a model of success [published erratum appears in J Nurs Educ 1990 Apr;29(4):following 191] Matocha LK, et al. **J Nurs Educ** 1990 Feb;29(2):90–2
Emergency nursing: the ideal clinical elective. Noll ML, et al. **J Nurs Educ** 1990 May;29(5):236–8
Portfolios and RNs: an evaluation. Oechsle L, et al. **J Nurs Educ** 1990 Feb;29(2):54–9
Student perceptions of the links between nursing and the liberal arts. Peck ML, et al. **J Nurs Educ** 1989 Nov; 28(9):406–14
Using structured controversy to promote ethical decision making [published erratum appears in J Nurs Educ 1990 May;29(5):240] Pederson C, et al. **J Nurs Educ** 1990 Apr; 29(4):150–7
Lesbian phobia among BSN educators: a survey. Randall CE. **J Nurs Educ** 1989 Sep;28(7):302–6
Therapeutic communication demystified. Severtsen BM. **J Nurs Educ** 1990 Apr;29(4):190–2
Teaching foreign students. Shearer RA. **J Nurs Educ** 1989 Nov;28(9):427–8
Effects of calculator use on arithmetic and conceptual skills of nursing students. Shockley JS, et al. **J Nurs Educ** 1989 Nov;28(9):402–5
Excellence in advisement: a strategy for declining nursing enrollments. Winters CE. **J Nurs Educ** 1990 May; 29(5):233–4
Baccalaureate student nurse success prediction: a replication. Wold JE, et al. **J Nurs Educ** 1990 Feb;29(2):84–9
What is past is prologue [editorial] Copp LA. **J Prof Nurs** 1989 Sep–Oct;5(5):239–40
The relationship between selected educational outcomes of senior RN–to–BSN students and their choice of advanced placement options available in the Maryland nursing articulation model. Rapson MF, et al. **J Prof Nurs** 1990 Mar–Apr;6(2):113–20
Ethics in the nursing curriculum for all levels of education: baccalaureate, masters' and doctoral. Harkness EG, et al. **Med Law** 1989;8(2):191–8
BSN students find a way to lessen the severity of reality shock. Wierda L. **Nurs Forum** 1989;24(1):11–4
The advanced practicum project. Rodgers BL, et al. **Nurs Outlook** 1990 Jan–Feb;38(1):31–5
A nursing process methodology. Ryan–Wenger NM. **Nurs Outlook** 1990 Jul–Aug;38(4):190–3
Physical assessment skills in undergraduate curricula. Solomon J. **Nurs Outlook** 1990 Jul–Aug;38(4):194–5
Long–time nursing school teacher favors both diploma, degree programs [letter; comment] Lynch JP. **Va Med** 1989 Aug;116(8):298 Comment on: Va Med 1989 May;116(5):229–30.
Teaching the wise use of information—evaluation skills for nursing students. Fox LM. **West J Nurs Res** 1989 Dec; 11(6):773–6
Coping and developmental maturity of R.N. baccalaureate students. Mattson S. **West J Nurs Res** 1990 Aug; 12(4):514–24
Student–staff collaboration in identifying nursing problems and reviewing the literature. Swanson JM, et al. **West J Nurs Res** 1990 Apr;12(2):262–6

ECONOMICS

Linking nursing service and education for student scholarships. Koerner B. **J Prof Nurs** 1989 Sep–Oct; 5(5):243, 293

HISTORY

The beginning of baccalaureate nursing education at the University of Kansas: a midwestern experience. Veith S. **ANS** 1990 Jul;12(4):63–73
Social reform versus education reform: university nursing education in Canada, 1919–1960. Baumgart AJ, et al. **J Adv Nurs** 1990 May;15(5):510–6
From unpaid workers to respected scholars. Goss TC. **Nurs Outlook** 1990 May–Jun;38(3):125–8

LEGISLATION & JURISPRUDENCE

A house divided. Velsor–Friedrich B, et al. **Nurs Outlook** 1990 May–Jun;38(3):129–33

METHODS

Teaching psychomotor skills in nursing: a randomized control trial. Love B, et al. **J Adv Nurs** 1989 Nov; 14(11):970–5

ORGANIZATION & ADMINISTRATION

Single–purpose institutions for nursing programs: to be or not to be. Hart SE. **J Prof Nurs** 1990 Jan–Feb;6(1):55–8
Linking diploma and bachelor's degree nursing education: an Illinois experiment. Woolley AS, et al. **J Prof Nurs** 1990 Jul–Aug;6(4):206–12

STANDARDS

Perioperative nursing. Designing, implementing a baccalaureate elective. Tolley RG, et al. **AORN J** 1990 Jul;52(1):105–12
Can knowledge be promoted and values ignored? Implications for nursing education. Raya A. **J Adv Nurs** 1990 May;15(5):504–9
An international nursing student exchange program: an educational experience that enhanced student cognitive development. Frisch NC. **J Nurs Educ** 1990 Jan;29(1):10–2
Comparison of expected and evidenced baccalaureate degree competencies. Joyce–Nagata B, et al. **J Nurs Educ** 1989 Sep;28(7):314–21
How are we preparing nurse leaders? A study of baccalaureate curricula. Manfredi CM, et al. **J Nurs Educ** 1990 Jan;29(1):4–9
Attitudes regarding basic nursing programs: ratings of baccalaureate, associate degree and diploma prepared RNs in the northwest. Schumann LL. **J Nurs Educ** 1990 Feb; 29(2):71–8
Follow–up of Hadassah Nursing School's first seven graduate classes. Ziv L, et al. **J Prof Nurs** 1990 Jul–Aug;6(4):229–34
Do external degree programs really work? Lenburg CB. **Nurs Outlook** 1990 Sep–Oct;38(5):234–8
Using the CURN Project to teach research utilization in a baccalaureate program. Larson E. **West J Nurs Res** 1989 Oct;11(5):593–9

TRENDS

Nursing links with higher education: a prescription for change in the 21st century. Akinsanya JA. **J Adv Nurs** 1990 Jun;15(6):744–54
Some ambiguities of the student's role in undergraduate nurse training. Ashworth P, et al. **J Adv Nurs** 1989 Dec; 14(12):1009–15
The response of higher education to the shortage of nursing school applicants. Grubbs LM. **J Nurs Educ** 1989 Sep; 28(7):295–7
The new non–traditional student in nursing. Seidl AH, et al. **J Nurs Educ** 1990 Jan;29(1):13–9
Strategic planning: preparing for the twenty–first century. Andrews MM. **J Prof Nurs** 1990 Mar–Apr;6(2):103–12
How well is nursing coping with the balancing act? Rogers MA. **J Prof Nurs** 1989 Sep–Oct;5(5):247, 294

EDUCATION, NURSING, CONTINUING

Continuing education in ethics: a must for nurses. Cragg CE. **AORN J** 1989 Dec;50(6):1308–11
Teaching material. Ways to enhance visual aids in staff development programs. Kuhn ME. **AORN J** 1990 Feb; 51(2):539–40, 542–3, 546–7, passim
Keeping staff up to date on information. Landreneau RJ. **AORN J** 1990 Apr;51(4):1064–5
Planning an educational activity. From idea to implementation. Sherwood G. **AORN J** 1990 Jun; 51(6):1586–90
Project Alpha. Designing courses that recruit and retain OR nurses. Takahashi JJ, et al. **AORN J** 1990 Feb;51(2):497–9, 501, 504–5, passim
A core curriculum for a postbasic course in cancer nursing. The European Oncology Nursing Society. **Cancer Nurs** 1990 Apr;13(2):123–8
IBM, education, and you [interview] Cotter H. **Comput Nurs** 1990 Jan–Feb;8(1):34–5
Automated continuing education and patient education. Masten Y, et al. **Comput Nurs** 1990 Jul–Aug;8(4):144–50
Influence of frequency, time interval from initial instruction, and method of instruction on performance competency for blood glucose monitoring. Kucler MA, et al. **Diabetes Care** 1990 May;13(5):488–91
Heart sound simulation: how useful for critical care nurses? Harrell JS, et al. **Heart Lung** 1990 Mar;19(2):197–202
Self–reflection in nursing teacher education. Leino–Kilpi H. **J Adv Nurs** 1990 Feb;15(2):192–5
The need for continuing professional education for nurses. Nugent AB. **J Adv Nurs** 1990 Apr;15(4):471–7
The School Nurse Achievement Program in New Hampshire. Desrosiers MC. **J Sch Health** 1989 Oct;59(8):364–6
Epilepsy: the school nurse's dilemma. Frank J. **J Sch Health** 1990 Jan;60(1):34–5
Serving the needs of nursing professionals in rural areas. Brinson HM. **N C Med J** 1989 Dec;50(12):706–7
Extended role of the nurse. Hogg P. **Radiogr Today** 1989 Sep;55(628):33

LEGISLATION & JURISPRUDENCE

Mandatory refreshment for nurses: an incentive to return? Cowling C. **J Adv Nurs** 1990 Jul;15(7):855–8

METHODS

A program model for nurses involved with cancer education of black Americans. Frank–Stromborg M, et al. **J Cancer Educ** 1987;2(3):145–51
Computer applications for staff development and patient education. Hannah KJ, et al. **Methods Inf Med** 1989 Nov; 28(4):261–6 (50 ref.)

TRENDS

Nursing students in transition—from hospital to college and back again. Bochner D. **Med Teach** 1989;11(2):187–94

EDUCATION, NURSING, DIPLOMA PROGRAMS

Attitudes of diploma student nurses toward adult clients. Giardina–Roche C, et al. **J Nurs Educ** 1990 May; 29(5):208–14
Long–time nursing school teacher favors both diploma, degree programs [letter; comment] Lynch JP. **Va Med** 1989 Aug;116(8):298 Comment on: Va Med 1989 May;116(5):229–30.
[The professional nursing practice of 3d–year students at a medical institute] Oberemchenko IaV, et al. **Vrach Delo** 1989 Jul;(7):119–20 **(Rus)**

ORGANIZATION & ADMINISTRATION

Linking diploma and bachelor's degree nursing education: an Illinois experiment. Woolley AS, et al. **J Prof Nurs** 1990 Jul–Aug;6(4):206–12

STANDARDS

The effect of death education and experience on nursing students' attitude towards death. Hurtig WA, et al. **J Adv Nurs** 1990 Jan;15(1):29–34
Attitudes regarding basic nursing programs: ratings of baccalaureate, associate degree and diploma prepared RNs in the northwest. Schumann LL. **J Nurs Educ** 1990 Feb; 29(2):71–8

TRENDS

Competing paradigms and the St Luke's Alumnae Association minutes, 1895–1916. Olson T. **ANS** 1990 Jul; 12(4):53–62

EDUCATION, NURSING, GRADUATE

Gerontology courses for undergraduate and graduate students—and for seniors themselves. Schlepp S. **AORN J** 1990 Jun;51(6):1484–92
The implementation of the first graduate program in nursing informatics. Heller BR, et al. **Comput Nurs** 1989 Sep–Oct; 7(5):209–13
The development of a computer–based tutorial for an introductory course on nursing research. Holzemer WL, et al. **Comput Nurs** 1989 Nov–Dec;7(6):258–65
First public university nursing doctorate program. **J Nurs Adm** 1990 Jun;20(6):7
The value of business administration education. Fralic MF. **J Nurs Adm** 1989 Nov;19(11):5, 7
The meaning of health for graduate nursing students. Hanna KM. **J Nurs Educ** 1989 Oct;28(8):372–6
The socialization process of master's–level nurse practitioner students. Hupcey JE. **J Nurs Educ** 1990 May;29(5):196–201
Teaching students how to publish in nursing journals: a group approach. Miller BK, et al. **J Nurs Educ** 1989 Oct; 28(8):379–81
Grantsmanship as a core component of nursing doctoral education. Novak JC. **J Nurs Educ** 1989 Sep;28(7):328–30
Postdoctoral leadership training for women of color. Bessent H. **J Prof Nurs** 1989 Sep–Oct;5(5):279–82
'My teacher'. A title of honor and exalted status. Glittenberg JE. **J Prof Nurs** 1989 Sep–Oct;5(5):241, 293
Academic misconduct: considerations for educational administrators. Prescott PA. **J Prof Nurs** 1989 Sep–Oct; 5(5):283–7
Economic issues and nursing scholarship. Williams CA. **J Prof Nurs** 1989 Nov–Dec;5(6):301
Guiding the way: acting as a preceptor for graduate students. Kimmel LH. **J Psychosoc Nurs Ment Health Serv** 1989 Nov;27(11):14–21
Ethics in the nursing curriculum for all levels of education: baccalaureate, masters' and doctoral. Harkness EG, et al. **Med Law** 1989;8(2):191–8
Physiology course content in graduate education. Karch AM, et al. **Nurs Outlook** 1990 Jul–Aug;38(4):178–9, 183
Why clinical field study? Pridham KF. **Nurs Outlook** 1990 Jan–Feb;38(1):26–30
A pragmatic researcher responds [letter; comment] Thomas SB. **Nurs Outlook** 1990 May–Jun;38(3):118–9 Comment on: Nurs Outlook 1989 Jul–Aug;37(4):160.
CNS, NP Core Curricula Study: survey tool questioned,

defended [letter] Kobert SN. **Nurse Pract** 1990 Jul;15(7):7–8

ECONOMICS

Business and nursing programs combine. **J Nurs Adm** 1990 May;20(5):32, 40

STANDARDS

Administrative preparation of clinical nurse specialists. Radke K, et al. **J Prof Nurs** 1990 Jul–Aug;6(4):221–8

TRENDS

Nursing education strides in Finland. Leino-Kilpi H, et al. **Int Nurs Rev** 1990 Mar–Apr;37(2):244–6

The development of a master's degree program based on perceived future practice needs. Hill BA. **J Nurs Educ** 1989 Sep;28(7):307–13

Type and expectations of faculty. Anderson CA. **J Prof Nurs** 1989 Sep–Oct;5(5):250–5

Two doctorates: separate and unequal? [letter; comment] Douglas MK. **J Prof Nurs** 1989 Sep–Oct;5(5):292 Comment on: J Prof Nurs 1988 Nov–Dec;4(6):436–46.

Differences between the professional doctorate and the academic/research doctorate. Downs FS. **J Prof Nurs** 1989 Sep–Oct;5(5):261–5

Issues in doctoral education in nursing. Grace HK. **J Prof Nurs** 1989 Sep–Oct;5(5):266–70

EDUCATION OF MENTALLY DEFECTIVE see EDUCATION OF MENTALLY RETARDED

EDUCATION OF MENTALLY RETARDED

Response prompting and fading methods: a review. Demchak M. **Am J Ment Retard** 1990 May;94(6):603–15 (63 ref.)

Cognitive play of mentally retarded preschoolers: observations in the home and school. Malone DM, et al. **Am J Ment Retard** 1990 Mar;94(5):475–87

Individual differences in the representation of sentences in memory. Merrill EC, et al. **Am J Ment Retard** 1990 Jul; 95(1):68–76

Effect of single setting versus multiple setting training on learning to shop in a department store. Westling DL, et al. **Am J Ment Retard** 1990 May;94(6):616–24

Self-regulation and mental retardation. Whitman TL. **Am J Ment Retard** 1990 Jan;94(4):347–62; discussion 363–76 (42 ref.)

A context analysis of contingent teacher attention. Martens BK. **Behav Modif** 1990 Apr;14(2):138–56

Interruption and DRI in the treatment of self-injurious behavior among mentally retarded and autistic self-restrainers. Underwood LA, et al. **Behav Modif** 1989 Oct;13(4):471–81

Reducing stereotyped behavior: a component analysis of the DRI schedule. Jones RS. **Br J Clin Psychol** 1989 Sep;28 (Pt 3):255–66

Mentally retarded adolescents: evaluation of communication strategies in different settings. Bolognini M, et al. **Int J Rehabil Res** 1988;11(4):369–78

The concept of normalisation as a principle of educational theory and practice. Mittler P. **Int J Rehabil Res** 1988; 11(3):261–8

Self-management with picture prompts to improve quality of household cleaning by severely mentally handicapped persons. Thierman GJ, et al. **Int J Rehabil Res** 1989; 12(1):27–39

Generalized language learning by children with severe mental retardation: effects of peers' expressive modeling. Goldstein H, et al. **J Appl Behav Anal** 1989 Fall; 22(3):245–59

Extended reductions in stereotypic behavior of students with autism through a self-management treatment package. Koegel RL, et al. **J Appl Behav Anal** 1990 Spring; 23(1):119–27

A collateral effect of reward predicted by matching theory. Mace FC, et al. **J Appl Behav Anal** 1990 Summer; 23(2):197–205

Increasing spontaneous language in three autistic children. Matson JL, et al. **J Appl Behav Anal** 1990 Summer; 23(2):227–33

Evaluation of the generalized effects of a peer-training procedure with moderately retarded adolescents. Wacker DP, et al. **J Appl Behav Anal** 1989 Fall;22(3):261–73

Training nonverbal and verbal play skills to mentally retarded and autistic children. Coe D, et al. **J Autism Dev Disord** 1990 Jun;20(2):177–87

Do autistic children differ from retarded and normal children in Piagetian sensorimotor functioning? Morgan SB, et al. **J Child Psychol Psychiatry** 1989 Nov;30(6):857–64

Asymmetries in intermanual transfer of training and motor overflow in adults with Down's syndrome and nonhandicapped children. Edwards JM, et al. **J Clin Exp Neuropsychol** 1989 Dec;11(6):959–66

Acquisition of American Sign Language versus Amerind signs in a mentally handicapped sample. Gates GE, et al. **J Commun Disord** 1989 Dec;22(6):423–35

Investigating stigma as stress in social interactions of parents. Baxter C. **J Ment Defic Res** 1989 Dec;33 (Pt 6):455–66

Free recall of lists of word and sign labels by severely handicapped children. Bowler DM, et al. **J Ment Defic Res** 1990 Apr;34 (Pt 2):157–68

Evaluation of a special behaviour unit for people with mental handicaps and challenging behaviour. Hoefkens A, et al. **J Ment Defic Res** 1990 Jun;34 (Pt 3):213–28; discussion 229–35

Comprehension of syntactically indicated sequence by Down's syndrome and other mentally retarded adults. Kernan KT. **J Ment Defic Res** 1990 Apr;34 (Pt 2):169–78

Hepatitis B carriers in a centre for the mentally retarded in Finland and immunogenicity of hepatitis B vaccine. Mölsä PK. **J Ment Defic Res** 1990 Aug;34 (Pt 4):379–83

Epilepsy in school children with intellectual impairments in Sheffield: the size and nature of the problem and the implications for service provision. Shepherd C, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):511–4

Prevalence of stuttering and cluttering in adults with mental handicaps. Stansfield J. **J Ment Defic Res** 1990 Aug;34 (Pt 4):287–307

Verbalization of appropriate and inappropriate cues in discrimination reversal learning by moderately mentally retarded children. Umetani T, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):487–92

Reproductive health concerns in Down syndrome. A report of eight cases. Elkins TE, et al. **J Reprod Med** 1990 Jul; 35(7):745–50

Effects of a pragmatic teaching strategy for requesting information by communication board users. Angelo DH, et al. **J Speech Hear Disord** 1990 May;55(2):231–43

Community-referenced activities: implications for establishing stimulus control. Browder DM, et al. **Ment Retard** 1989 Oct;27(5):331–8

Twenty-year tuberculin testing in an institution for persons with mental retardation. Chaney RH. **Ment Retard** 1989 Oct;27(5):305–9

Defining mental retardation from an instructional perspective. Dever RB. **Ment Retard** 1990 Jun;28(3):147–53 (43 ref.)

Validating the Kaufman Test of Educational Achievement, Brief Form with educable mentally retarded students. Posey W, et al. **Psychol Rep** 1989 Dec;65(3 Pt 2):1225–6

Living conditions of an adolescent population with Down's syndrome during a one-year period. Goldstein H. **Res Dev Disabil** 1989;10(4):399–412

Establishing sound blending in moderately mentally retarded children: implications of verbal instruction and pictorial prompting. Hoogeveen FR, et al. **Res Dev Disabil** 1989; 10(4):333–48

The use of behavior therapy and physical therapy to promote independent ambulation in a preschooler with mental retardation and cerebral palsy. Horton SV, et al. **Res Dev Disabil** 1989;10(4):363–75

Independent travel for developmentally disabled persons: a comprehensive model of instruction. LaGrow S, et al. **Res Dev Disabil** 1990;11(3):289–301

The application of sensory change to reduce stereotyped behavior. Mason SA, et al. **Res Dev Disabil** 1990; 11(3):257–71

Teaching money skills through stimulus class formation, exclusion, and component matching methods: three case studies. Stoddard LT, et al. **Res Dev Disabil** 1989; 10(4):413–39

Effects of video based training on spoken and signed language acquisition by students with mental retardation. Watkins LT, et al. **Res Dev Disabil** 1990;11(3):273–88

[The effectiveness of special schools in the comprehensive care of mentally retarded children] Höllge J. **Cesk Zdrav** 1990 Feb;38(2):88–94 (Eng. Abstr.) (Cze)

[What is the role of the pediatrician in the presence of mentally retarded children? (letter)] Thibaud D. **Arch Fr Pediatr** 1990 Mar;47(3):226 (Fre)

[Early education and social rehabilitation of young trisomic children] Cuilleret M. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(4):343–7 (Eng. Abstr.) (Fre)

HISTORY

Individual rights versus the public health: the controversy over the integration of retarded hepatitis B carriers into the New York City public school system. Muraskin W. **J Hist Med Allied Sci** 1990 Jan;45(1):64–98

LEGISLATION & JURISPRUDENCE

Balancing the right to habilitation with the right to personal liberties: the rights of people with developmental disabilities to eat too many doughnuts and take a nap. Bannerman DJ, et al. **J Appl Behav Anal** 1990 Spring; 23(1):79–89 (90 ref.)

Intervention services for developmentally delayed infants and toddlers in Arkansas. Ashcraft EW, et al. **J Arkansas Med Soc** 1989 Oct;86(5):191–3

Good rules, bad rules, the rulers, and the ruled. Baer DM. **Ment Retard** 1990 Apr;28(2):101–3

Indicators of impact of services on persons with developmental disabilities: issues concerning data-collection mandates in P.L. 100–146. Davidson PW, et al. **Ment Retard** 1989 Oct;27(5):297–304

Rules: the new institutions. Holburn CS. **Ment Retard** 1990 Apr;28(2):89–94

Regulations: can they control staff compliance in human services systems? Jacobson JW. **Ment Retard** 1990 Apr; 28(2):77–82

Early intervention practices with families of children with handicaps. Mahoney G, et al. **Ment Retard** 1990 Jun; 28(3):169–76

Counter-habilitative contingencies in institutions for people with mental retardation: ecological and regulatory influences. Meinhold PM, et al. **Ment Retard** 1990 Apr; 28(2):67–75

The responsibility of scientists in shaping public policy [editorial] Richardson M, et al. **Ment Retard** 1990 Apr; 28(2):63–4

Regulating professional services in ICFs/MR: remembering the past and looking to the future. Sparr MP, et al. **Ment Retard** 1990 Apr;28(2):95–9

Treatment for low-functioning sex offenders: group therapy and interagency coordination. Swanson CK, et al. **Ment Retard** 1990 Jun;28(3):155–61

Interface between mental subnormality and law—a review. Kunjukrishnan R, et al. **Psychiatr J Univ Ottawa** 1989 Sep; 14(3):439–52 (124 ref.)

MANPOWER

Hepatitis B control in Toronto classrooms for the mentally retarded: a seroprevalence survey. Ellis CE, et al. **Can J Public Health** 1990 Mar–Apr;81(2):156–60

Reducing direct-care staff absenteeism: effects of a combined reinforcement and punishment procedure. Briggs RM. **Ment Retard** 1990 Jun;28(3):163–8

METHODS

Aptitude by treatment interactions in computer-assisted word learning by mentally retarded students. Conners FA. **Am J Ment Retard** 1990 Jan;94(4):387–97

Preparing mentally retarded students for mainstreaming: priorities of regular class and special school teachers. Hanrahan J, et al. **Am J Ment Retard** 1990 Mar;94(5):470–4

Always trainable? never educable? Updating educational expectations concerning children with Down syndrome. Rynders JE, et al. **Am J Ment Retard** 1990 Jul;95(1):77–83

Effects of part versus whole instructional strategies on skill acquisition and excess behavior. Weld EM, et al. **Am J Ment Retard** 1990 Jan;94(4):377–86

The effect of differential reinforcement of incompatible behaviors (DRI) on pica for cigarettes in persons with intellectual disability. Donnelly DR, et al. **Behav Modif** 1990 Jan;14(1):81–96

Effects of two error-correction procedures on oral reading errors. Word supply versus sentence repeat. Singh NN. **Behav Modif** 1990 Apr;14(2):188–99

Teaching adolescents with severe disabilities to use the public telephone. Test DW, et al. **Behav Modif** 1990 Apr; 14(2):157–71

Teaching autistic children conversational speech using video modeling. Charlop MH, et al. **J Appl Behav Anal** 1989 Fall; 22(3):275–85

Contextual control of problem behavior in students with severe disabilities. Haring TG, et al. **J Appl Behav Anal** 1990 Summer;23(2):235–43

Clinical evaluation of the self-injurious behavior inhibiting system (SIBIS). Linscheid TR, et al. **J Appl Behav Anal** 1990 Spring;23(1):53–78

Discrimination training for persons with developmental disabilities: a comparison of the task demonstration model and the standard prompting hierarchy. Repp AC, et al. **J Appl Behav Anal** 1990 Spring;23(1):43–52

A personalized system of instruction for teaching checking account skills to adults with mild disabilities. Zencius AH, et al. **J Appl Behav Anal** 1990 Summer;23(2):245–52

The effects of exercise and cardiovascular fitness on stereotyped bodyrocking. Ellis DN, et al. **J Behav Ther Exp Psychiatry** 1989 Sep;20(3):251–6

The effects of music therapy on a group of profoundly mentally handicapped adults. Oldfield A, et al. **J Ment Defic Res** 1990 Apr;34 (Pt 2):107–25

Use of color-coded food photographs for meal planning by adults with mental retardation. Gines DJ, et al. **Ment Retard** 1990 Jun;28(3):189–90

Direct and generalized effects of food satiation in reducing rumination. Clauser B, et al. **Res Dev Disabil** 1990; 11(1):23–36

Comparison of constant time delay and the system of least prompts in teaching preschoolers with developmental delays. Doyle PM, et al. **Res Dev Disabil** 1990;11(1):1–22

Comparison of simulation training on self and using a doll for teaching generalized menstrual care to women with severe mental retardation. Epps S, et al. **Res Dev Disabil** 1990;11(1):37–66

"Harry": a ten year follow-up of the successful treatment of a self-injurious man. Foxx RM. **Res Dev Disabil** 1990; 11(1):67–76

Parent use of DRI on high rate disruptive behavior: direct and collateral benefits. Friman PC, et al. **Res Dev Disabil** 1990;11(2):249–54

Teaching autistic and severely handicapped children to recruit praise: acquisition and generalization. Harchik AE, et al. **Res Dev Disabil** 1990;11(1):77–95

A comparison of DRO to movement suppression time-out and DRO with two self-injurious and aggressive mentally retarded adults. Matson JL, et al. **Res Dev Disabil** 1990; 11(1):111–20

"Spontaneous" transfer of stimulus control from tact to mand contingencies. Sigafoos J, et al. **Res Dev Disabil** 1990; 11(2):165–76

TRENDS

Families caring for a young adult with mental retardation: service needs and urgency of community living requests. Black MM, et al. **Am J Ment Retard** 1990 Jul;95(1):32–9

From theory to practice in the care and education of mentally retarded individuals. Zigler E, et al. **Am J Ment Retard** 1990 Jul;95(1):1–12; discussion 13–31 (60 ref.)

Presidential address 1989. AAMR. Griffith RG. **Ment Retard** 1989 Oct;27(5):289–95

EDUCATION OF PATIENTS see PATIENT EDUCATION

EDUCATION, PHARMACY

Educational differentiation of the pharmacy work force. Knapp KK, et al. **Am J Hosp Pharm** 1989 Dec; 46(12):2476–82

Regional cooperative summer internship program for pharmacy students. Payne GR, et al. **Am J Hosp Pharm** 1990 Aug;47(8):1791–3

A community pharmacist's perspective on the PharmD issue. Knowlton CH. **Am Pharm** 1990 Jun;NS30(6):30–1

Drug information skills for pharmacy students: curriculum integration. Wood EH, et al. **Bull Med Libr Assoc** 1990 Jan;78(1):8–14

Are you an academician? [editorial] Carter BL. **DICP** 1989 Nov;23(11):920–1

Parenterals and pharmacy education [editorial] Schwartz JB. **J Parenter Sci Technol** 1989 Nov–Dec;43(6):251

[Pilot projects] **Med Monatsschr Pharm** 1989 Dec;12(12):369 **(Ger)**

[Pharmacological information and training for health care services. The Spanish experience and possibilities of Ibero–American cooperation] Lobo F. **Rev Sanid Hig Publica (Madr)** 1989 Jan–Feb;63(1–2):119–25 **(Spa)**

HISTORY

[The development of pharmacy in German universities in the 19th century] Friedrich C. **Pharmazie** 1990 May; 45(5):367–9 (Eng. Abstr.) **(Ger)**

ORGANIZATION & ADMINISTRATION

Improving a hospital pharmacy externship program. Brown SC, et al. **Am J Hosp Pharm** 1990 Jun;47(6):1364–9

STANDARDS

ASHP supplemental standard and learning objectives for residency training in critical-care pharmacy practice. American Society of Hospital Pharmacists. **Am J Hosp Pharm** 1990 Mar;47(3):609–12

An international survey of the educational activities of schools of pharmacy on psychoactive drugs. Falkowski J, et al. **Bull World Health Organ** 1989;67(5):561–4

Evaluating pharmacist training. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):26–8

[Methodological approach to the teaching of clinical pharmacology] Orlov VA, et al. **Klin Med (Mosk)** 1989 Nov;67(11):142–4 **(Rus)**

TRENDS

Training in hospital pharmacy administration [letter] Portwood JL. **Am J Hosp Pharm** 1990 Jun;47(6):1273

Teaching and education of future clinicians [letter] Copa AK. **DICP** 1990 Jun;24(6):642

Clinical pharmacy education in new England: a report of the Whispering Pines Conference. Fish SS, et al. **DICP** 1989 Nov;23(11):912–9

Comment: undergraduate education [letter; comment] Slack MK. **DICP** 1989 Sep;23(9):714–6 Comment on: DICP 1989 Mar;23(3):250–1.

A programme to enrich undergraduate education through participation in clinical pharmacy research. Nahata MC. **J Clin Pharm Ther** 1990 Jun;15(3):221–4

[The education system for pharmacists in the GDR—a basis for discussion and further implementation] Nuhn P, et al. **Pharmazie** 1990 Mar;45(3):161–3 **(Ger)**

[State and prospects of the development of higher medical and pharmaceutical education in the RSFSR] Mutovin GR, et al. **Sov Med** 1990;(4):3–7 **(Rus)**

EDUCATION, PHARMACY, CONTINUING

Education through peer review [editorial] Klein CN. **Am J Hosp Pharm** 1990 Aug;47(8):1768

The Apple program: developing change agents in pharmacy. Bleidt BA, et al. **Am Pharm** 1989 Nov;NS29(11):32–4

Educating the educator—implications for psychiatric pharmacy. Myers CW, et al. **J Clin Pharm Ther** 1989 Oct; 14(5):319–22

The effectiveness of microtraining in developing pharmacists' communication skills: a study of personality and attitudes. Hargie OD, et al. **Med Teach** 1989;11(2):195–203

Teaching pharmacists about family planning. Lande RE, et al. **Popul Rep [J]** 1989 Nov;(37):20–6

ORGANIZATION & ADMINISTRATION

Pharmaceutical continuing-education program based on a core curriculum. Swanson TA, et al. **Am J Hosp Pharm** 1989 Dec;46(12):2483–5

Drug information centers as bases for continuing education programs in Kuwait. Tarifi HA, et al. **DICP** 1990 Jul–Aug; 24(7–8):769–71

STATISTICS & NUMERICAL DATA

Continuing-education interests of Wisconsin hospital pharmacists. De Muth JE, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1828–30

TRENDS

The future of postgraduate pharmacy training programs [published erratum appears in Am J Hosp Pharm 1990 Mar;47(3):524] Smith JE. **Am J Hosp Pharm** 1990 Jan; 47(1):98–105

EDUCATION, PHARMACY, GRADUATE

A matter of degrees [letter] King ES. **Am J Hosp Pharm** 1990 Jun;47(6):1270, 1273

Manpower trends and the role of educators in preparing students for postgraduate training. Penna RP. **Am J Hosp Pharm** 1990 Jan;47(1):92–8

Mentors and residency training. Pierpaoli PG. **Am J Hosp Pharm** 1990 Jan;47(1):112–3

Multidimensional work sampling to quantify a pharmacokinetics resident's duties. Yoon R, et al. **Am J Hosp Pharm** 1990 Aug;47(8):1785–90

STANDARDS

[The role of the institutes and schools of post-graduate training in the certification of physicians and pharmacists] Murav'ev MV. **Sov Zdravookhr** 1990;(1):62–4 **(Rus)**

TRENDS

Improving postgraduate pharmacy residency training. Parker PF. **Am J Hosp Pharm** 1990 Jan;47(1):88–91

Postgraduate training for pharmacy practice [editorial] Zellmer WA. **Am J Hosp Pharm** 1990 Jan;47(1):81–2

Freedom of opportunity: the PharmD degree. Gans JA. **Am Pharm** 1990 Jun;NS30(6):24–7

The PharmD: will it become pharmacy's single professional degree? Martin S. **Am Pharm** 1990 Jun;NS30(6):28–9

Pharmacotherapy. Part IV. The future of specialization and certification in pharmacy [editorial] McLeod DC. **DICP** 1990 Feb;24(2):181–2

EDUCATION, PREMEDICAL

On premedical advice. Dockery JL. **J Fla Med Assoc** 1989 Sep;76(9):809

Academic selection criteria and subsequent performance. Montague W, et al. **Med Educ** 1990 Mar;24(2):151–7

Comparison of performance of students from different high school systems in medical sciences at Kuwait University [letter; comment] Shuqaidef S. **Med Educ** 1990 May; 24(3):313–4 Comment on: Med Educ 1989 Jul;23(4):395–8.

STANDARDS

Postbaccalaureate preparation and performance in medical school. Hojat M, et al. **Acad Med** 1990 Jun;65(6):388–91

TRENDS

Special Premedical Studies Program—students' perspective. Bartlett J, et al. **Arctic Med Res** 1988;47 Suppl 1:327–9

EDUCATION, PROFESSIONAL, RETRAINING see under EDUCATION, CONTINUING

EDUCATION, SEX see SEX EDUCATION

EDUCATION, SPECIAL

Achievement in an alternative high school for emotionally/behaviorally disturbed students. Stedman JM, et al. **Adolescence** 1989 Fall;24(95):623–30

Programs and services for the deaf in the United States. III. Supportive and rehabilitative programs and services. **Am Ann Deaf** 1989;134(2):155–77

Programs and services for the deaf in the United States. II. Educational programs and services. **Am Ann Deaf** 1989; 134(2):85–153

Interactive video for bilingual ASL/English instruction of deaf children. Hanson VL, et al. **Am Ann Deaf** 1989 Jul; 134(3):209–13

Collaborative consultation: a method for improving educational services for mainstreamed students who are hearing impaired. Luckner JL, et al. **Am Ann Deaf** 1989 Dec;134(5):301–4

Social integration: special education teachers' attitudes and behaviors. Thousand JS, et al. **Am J Ment Retard** 1990 Jan;94(4):407–19

Paediatrician to a special school. Lewis S. **Arch Dis Child** 1990 Jul;65(7):803–6

Audiological rehabilitation in the schools. Flexer C. **ASHA** 1990 Apr;32(4):44–5

Conductive education [letter; comment] **BMJ** 1989 Dec 9; 299(6713):1461–2 Comment on: BMJ 1989 Nov 4;299(6708):1145–9.

Conductive education [letter] McKinlay M. **BMJ** 1990 Jan 6;300(6716):49

Conductive education at the Petö Institute, Budapest [see comments] Robinson RO, et al. **BMJ** 1989 Nov 4; 299(6708):1145–9 Comment in: BMJ 1989 Dec 9;299(6713):1461–2.

A comparison between coupler gain and insertion gain of hearing aids as used in partially hearing units in five schools in Belfast. Harris WE, et al. **Br J Audiol** 1989 Aug; 23(3):255–60

Early education. Richmond JB. **Bull N Y Acad Med** 1989 Mar;65(3):307–18

The relevance of parental involvement programmes in developing countries. O'Toole B. **Child Care Health Dev** 1989 Sep–Oct;15(5):329–42

Are Head Start effects sustained? A longitudinal follow-up comparison of disadvantaged children attending Head Start, no preschool, and other preschool programs. Lee VE, et al. **Child Dev** 1990 Apr;61(2):495–507

Joint reading between black Head Start children and their mothers. Pellegrini AD, et al. **Child Dev** 1990 Apr; 61(2):443–53

Serving refugee children and families in Head Start. Broughton C. **Child Today** 1989 Sep–Oct;18(5):6–10

Sometimes patent medicine works: a reply to Braaten, Kauffman, Braaten, Polsgrove, and Nelson [comment] Algozzine B, et al. **Except Child** 1990 Apr;56(6):552–7; discussion 558–60 Comment on: Except Child 1988 Sep;55(1):21–7.

Bilingual special education: training issues. Baca L, et al. **Except Child** 1989 Oct;56(2):168–73

Are regular education classes equipped to accommodate students with learning disabilities? Baker JM, et al. **Except Child** 1990 Apr;56(6):515–26

Hispanic students at risk: do we abdicate or advocate? Fradd SH, et al. **Except Child** 1989 Oct;56(2):105–10

Prereferral intervention: a prescriptive approach. Fuchs D, et al. **Except Child** 1990 Apr;56(6):493–513

The drug babies. Greer JV. **Except Child** 1990 Feb; 56(5):382–4

REI: revisited...again. Lieberman L. **Except Child** 1990 Apr; 56(6):561–2

Defining mild disabilities with language-minority students. Rueda R. **Except Child** 1989 Oct;56(2):121–8 (70 ref.)

An optimal learning environment for Rosemary. Ruiz NT. **Except Child** 1989 Oct;56(2):130–44

A community-based rehabilitation programme for pre-school disabled children in Guyana. O'Toole B. **Int J Rehabil Res** 1988;11(4):323–34

Prospects and challenges of educating deaf pupils in Nigeria: teachers' perceptions. Togonu-Bickersteth F. **Int J Rehabil Res** 1988;11(3):225–33

Transitioning the child fed by gastrostomy into school. Isaacs JS, et al. **J Am Diet Assoc** 1990 Jul;90(7):982–5

A collateral effect of reward predicted by matching theory. Mace FC, et al. **J Appl Behav Anal** 1990 Summer; 23(2):197–205

Problems relative to special education services in Arkansas. Ashcraft EW, et al. **J Arkansas Med Soc** 1989 Sep; 86(4):149–50

Effects of training in use of executive strategies on a verbal memory problem resulting from closed head injury. Lawson MJ, et al. **J Clin Exp Neuropsychol** 1989 Dec; 11(6):842–54

A method of assessing the written language of hearing-impaired students. Luckner JL, et al. **J Commun Disord** 1990 Jun;23(3):219–33 (45 ref.)

Modifications of speech language levels by preservice educators based on language features. Schloss PJ, et al. **J Commun Disord** 1990 Apr;23(2):89–96

Cognitive consequences of congenital deafness. Tomlinson-Keasey C, et al. **J Genet Psychol** 1990 Mar; 151(1):103–15

The self-concepts of visually impaired and normally sighted middle school children. Obiakor FE, et al. **J Psychol** 1990 Mar;124(2):199–206

Children with special educational needs [letter; comment] Lang DV. **J R Coll Gen Pract** 1989 Jul;39(324):304 Comment on: J R Coll Gen Pract 1989 Feb;39(319):56–8.

The family doctor and children with special educational needs [see comments] Ni Bhrolchain CM. **J R Coll Gen Pract** 1989 Feb;39(319):56–8 Comment in: J R Coll Gen Pract 1989 Jul;39(324):304.

Risk of pregnancy and dropping out of school among special education adolescents. Kleinfeld LA, et al. **J Sch Health** 1989 Oct;59(8):359–61

Three-year analysis of characteristics of learning disabled students in self-contained classrooms and resource rooms. Wigle SE, et al. **Percept Mot Skills** 1989 Oct;69(2):635–41

Conductive education for physically handicapped children: parental expectations and experience. Hill AE. **Ulster Med J** 1990 Apr;59(1):41–5

Facilitating and assessing progress toward independence: SPARX. Lollar DJ, et al. **Z Kinderchir** 1989 Dec;44 Suppl 1:18–20

[Remedial and special class groups in elementary schools] Chýleová L. **Cesk Pediatr** 1990 Jan;45(1):55–6 **(Cze)**

[Early treatment. An overview] Aimard P. **Rev Laryngol Otol Rhinol (Bord)** 1989;110(4):355–7 (Eng. Abstr.) **(Fre)**

[Some remarks on early education and therapy from the

systemic viewpoint] Kilian H. **Prax Kinderpsychol Kinderpsychiatr** 1989 Oct;38(8):277–82 (Eng. Abstr.) (Ger)

[Basic social competence of retarded children: problems of education and evaluation] Sarimski K, et al. **Prax Kinderpsychol Kinderpsychiatr** 1989 Oct;38(8):293–8 (Eng. Abstr.) (Ger)

[Rehabilitation of patients with vision disorders] Moeller W. **Z Arztl Fortbild (Jena)** 1989;83(19):973–6 (13 ref.) (Ger)

[Using computers with autistic handicapped children] Bernard-Opitz V, et al. **Z Kinder Jugendpsychiatr** 1989 Sep; 17(3):125–30 (Eng. Abstr.) (Ger)

[Actual conditions of disabled school-aged children requiring continuous daily medical care—results of a survey in seven districts of Tokyo] Funabashi M, et al. **No To Hattatsu** 1990 Jul;22(4):398–400 (Jpn)

[Hereditary diseases of the eye and their relative significance among the causes of blindness and diminished vision in the pupils of boarding schools for blind and amblyopic children in Uzbekistan] Il'ina TG, et al. **Oftalmol Zh** 1989; (5):294–6 (Eng. Abstr.) (Rus)

[Preparatory public high school for schizophrenics. A modified curriculum provides quiet working environment and security] Andersson B, et al. **Lakartidningen** 1990 Apr 4;87(14):1165, 1167 (Swe)

ECONOMICS

Research on the cost effectiveness of early educational intervention: implications for research and policy. Barnett WS, et al. **Am J Community Psychol** 1989 Dec; 17(6):677–704 (70 ref.)

LEGISLATION & JURISPRUDENCE

Public Law 99-457: a new challenge to early intervention. Sass-Lehrer M, et al. **Am Ann Deaf** 1989;134(2):71–7

Occupational therapy in early intervention: new perspectives create greater possibilities. Dunn W. **Am J Occup Ther** 1989 Nov;43(11):717–21

PL 99-457: are speech-language pathologists prepared for the challenge? Crais ER, et al. **ASHA** 1990 Apr;32(4):57–61

An update on PL 94-142. Shewan CM. **ASHA** 1990 Jan; 32(1):73

Public Law 99-457 and the clinical pediatrician. Part 1: A description of the federal act and its predecessor. Downey WS Jr. **Clin Pediatr (Phila)** 1990 Mar;29(3):158–61 (0 ref.)

Public Law 99-457 and the clinical pediatrician. Part 2: Implication for the pediatrician. Downey WS Jr. **Clin Pediatr (Phila)** 1990 Apr;29(4):223–7 (5 ref.)

Children with juvenile rheumatoid arthritis at school. Functional problems, participation in physical education. The implementation of Public Law 94-142. Whitehouse R, et al. **Clin Pediatr (Phila)** 1989 Nov;28(11):509–14

Psychological testing of linguistic-minority students: knowledge gaps and regulations. Figueroa RA. **Except Child** 1989 Oct;56(2):145–52

New precedent in family policy: individualized family service plan. Krauss MW. **Except Child** 1990 Feb;56(5):388–95

The Handicapped Children's Protection Act of 1986: time to pay the piper? Yell ML, et al. **Except Child** 1990 Feb; 56(5):396–407

Legislative priorities for children with disabilities. Harkin T. **Ment Retard** 1990 Apr;28(2):119–22

Providing therapeutic services to children in special educational placements: an analysis of the related services provisions of Public Law 94-142 in five urban school districts. Palfrey JS, et al. **Pediatrics** 1990 Apr;85(4):518–25

[Possibilities of the rehabilitation of children and adolescents with behavior disorders] Knölker U. **Off Gesundheitswes** 1989 Aug-Sep;51(8-9):477–82 (Eng. Abstr.) (Ger)

METHODS

Computer-aided self-instruction training with hearing-impaired impulsive students. Campbell DS, et al. **Am Ann Deaf** 1989 Jul;134(3):227–31

Bias over substance: a critical analysis of Kavale and Forness' report on modality-based instruction. Dunn R. **Except Child** 1990 Jan;56(4):352–61

Special education and the regular education initiative: basic assumptions. Jenkins JR, et al. **Except Child** 1990 Apr; 56(6):479–91 (39 ref.)

Effects of self-evaluation on the independent work skills of preschool children with disabilities. Sainato DM, et al. **Except Child** 1990 Apr;56(6):540–9

A comparison of two methods of prompting in training discrimination of communication book pictures by autistic students. Berkowitz S. **J Autism Dev Disord** 1990 Jun; 20(2):255–62

Daily life therapy: a Japanese model for educating children with autism. Quill K, et al. **J Autism Dev Disord** 1989 Dec; 19(4):625–35

Conductive education—magic or myth? Lonton AP, et al. **Z Kinderchir** 1989 Dec;44 Suppl 1:21–3

[Support and counseling of blind and visually handicapped students] Wieler R. **Ther Umsch** 1990 Apr;47(4):329–33 (Eng. Abstr.) (Ger)

ORGANIZATION & ADMINISTRATION

A theoretical framework for bilingual special education. Cummins J. **Except Child** 1989 Oct;56(2):111–9

STANDARDS

Management of attention deficit hyperactivity disorder (ADHD). A continuing dilemma for physicians and educators [see comments] Campbell LR, et al. **Clin Pediatr (Phila)** 1990 Mar;29(3):191–3 Comment in: Clin Pediatr (Phila) 1990 Mar;29(3):193–4.

TRENDS

The school's role in achieving better health. Comer JP. **Bull N Y Acad Med** 1989 Mar;65(3):344–50

Students with low-incidence disabilities in dissadvantaged, rural settings. Capper CA. **Except Child** 1990 Jan; 56(4):338–44

Consultation-based programming: instituting the collaborative ethic in schools. Phillips V, et al. **Except Child** 1990 Jan;56(4):291–304 (120 ref.)

Widening the debate on educational reform: prevention as a viable alternative. Pianta RC. **Except Child** 1990 Jan; 56(4):306–13 (45 ref.)

[The growth of special education: a public health problem?] Orlebeke JF, et al. **Ned Tijdschr Geneeskd** 1990 Jul 7; 134(27):1315–9 (Dut)

EDUCATION, VETERINARY

Student's opinion on surgery alternative program [letter] Block GI. **J Am Vet Med Assoc** 1990 Jul 1;197(1):12–3, 16

The need for graduates in food animal medicine. Herrick JB. **J Am Vet Med Assoc** 1990 Jul 15;197(2):183–4

Educating a veterinary student to be a swine specialist. Herrick JB. **J Am Vet Med Assoc** 1989 Oct 1;195(7):924–6

Back to school again: first step toward a new career. Jones G. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1236–7

Abbreviations and neologisms in clinical veterinary medical education: does everyone understand what we are saying? [see comments] Jortner BS, et al. **J Am Vet Med Assoc** 1990 Feb 15;196(4):570–2 Comment in: J Am Vet Med Assoc 1990 Apr 15;196(8):1200–1.

Tufts develops alternative program for teaching surgery [news] [see comments] Loew FM. **J Am Vet Med Assoc** 1989 Oct 1;195(7):868–70 Comment in: J Am Vet Med Assoc 1990 Jan 15;196(2):184. Comment in: J Am Vet Med Assoc 1990 Apr 15;196(8):1200.

And more yet on Tufts' student surgery program [letter] Preheim PP. **J Am Vet Med Assoc** 1990 Jun 1;196(11):1739

Recognizing professional ethics as a useful discipline [letter] Tannenbaum J. **J Am Vet Med Assoc** 1990 Jul 15; 197(2):168–9

Veterinary research and education in Europe: a university viewpoint. Pouplard L. **Vet Microbiol** 1990 Jun;23(1-4):6–7

Meat inspection [letter; comment] **Vet Rec** 1989 Oct 14; 125(16):424–5 Comment on: Vet Rec 1989 Sep 23;125(13):357.

A problem-solving format for written examinations in veterinary clinical subjects. Buddle JR. **Vet Rec** 1989 Sep 2;125(10):258–61

Intellectual needs of practice [letter; comment] Edwards AM. **Vet Rec** 1990 Apr 28;126(17):441–2 Comment on: Vet Rec 1990 Mar 17;126(11):272.

Practice management teaching [letter] Fitzpatrick RJ. **Vet Rec** 1989 Sep 16;125(12):332

Trade in rodents [letter] Keymer IF. **Vet Rec** 1990 Jan 27; 126(4):94

The veterinary profession in West Germany. Weaver MP. **Vet Rec** 1990 Apr 14;126(15):347–50

[The veterinarian and the law] Schulze W. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):26–8 (Eng. Abstr.) (Ger)

[The role of behavioral science in animal welfare in teaching and practical application] Stephan E. **DTW Dtsch Tierarztl Wochenschr** 1990 Jun;97(6):219–20 (Eng. Abstr.) (Ger)

[Teaching and advanced training in the field of animal welfare and behavioral science] Unshelm J. **DTW Dtsch Tierarztl Wochenschr** 1990 Jun;97(6):250–3 (Eng. Abstr.) (Ger)

HISTORY

A brief glance back at 45 years in veterinary education. Shelton G. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1030–6

LEGISLATION & JURISPRUDENCE

Proposed legislation on use of animals in Pennsylvania [letter; comment] Bramson PH. **J Am Vet Med Assoc** 1990 Apr 15;196(8):1200 Comment on: J Am Vet Med Assoc 1989 Oct 1;195(7):868–70.

STANDARDS

Movement of veterinarians in the EC. **Vet Rec** 1989 Nov 4;125(19):470–3

Physiotherapists and animal treatment [letter] Bromiley MW. **Vet Rec** 1990 Apr 21;126(16):409

Complementary medicine [letter] Hunter FE. **Vet Rec** 1990 Mar 3;126(9):224–5

Intellectual needs of practice [letter] [see comments] Lewis DG. **Vet Rec** 1990 Mar 17;126(11):272 Comment in: Vet Rec 1990 Apr 28;126(17):441–2.

TRENDS

Comments on Pew report [letter] **J Am Vet Med Assoc** 1989 Oct 1;195(7):851–2

A veterinary curriculum for the 1990s [see comments] Bushby PA, et al. **J Am Vet Med Assoc** 1989 Oct 15;195(8):1059–61, 1069 Comment in: J Am Vet Med Assoc 1990 Apr 1;196(7):1007–8.

Cautions against substitution of production medicine for "sick cow treatment" [letter] Gérloff BJ. **J Am Vet Med Assoc** 1989 Dec 1;195(11):1458, 1460

Directions in veterinary education [letter; comment] Middleton CC. **J Am Vet Med Assoc** 1990 Apr 1; 196(7):1007–8 Comment on: J Am Vet Med Assoc 1989 Oct 15;195(8):1059–61, 1069.

William Weipers lecture. Perspectives in veterinary education. **Vet Rec** 1990 Jul 28;127(4):78–82

EDUCATIONAL ACHIEVEMENT see **EDUCATIONAL STATUS**

EDUCATIONAL EXCHANGE, INTERNATIONAL see **INTERNATIONAL EDUCATIONAL EXCHANGE**

EDUCATIONAL MEASUREMENT

Medical school admission. **Acad Med** 1990 Mar;65(3):133–90

Detecting and correcting for rater-induced differences in standardized patient tests of clinical competence. Abrahamowicz M, et al. **Acad Med** 1990 Sep;65(9 Suppl):S25–6

The mismeasure of medical education. Anderson ND. **Acad Med** 1990 Mar;65(3):159–60 (8 ref.)

Recruitment and preparation program for Hispanic applicants. Binder LS, et al. **Acad Med** 1990 Mar;65(3):190

The declining applicant pool and MCAT scores. Clark DS, et al. **Acad Med** 1990 Mar;65(3):219–20

Status report on the NBME's computer-based testing. Clyman SG, et al. **Acad Med** 1990 Apr;65(4):235–41

Admission committee dissent as a predictor of problems in medical school. Daugherty SR, et al. **Acad Med** 1990 Sep; 65(9 Suppl):S1–2

English proficiency in multiple-choice questions [letter] Dissanayake AS, et al. **Acad Med** 1990 Feb;65(2):101

The interview in the admission process. Edwards JC, et al. **Acad Med** 1990 Mar;65(3):167–77 (70 ref.)

The legal context for evaluating and dismissing medical students and residents. Irby DM, et al. **Acad Med** 1989 Nov;64(11):639–43

Qualitative variables in medical school admission [see comments] McGaghie WC. **Acad Med** 1990 Mar; 65(3):145–9 (50 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Perspectives on medical school admission [see comments] McGaghie WC. **Acad Med** 1990 Mar;65(3):136–9 Comment in: Acad Med 1990 Mar;65(3):183–7.

Evaluation of students in medicine clerkships. Magarian GJ, et al. **Acad Med** 1990 May;65(5):341–5

Traditional predictors of performance in medical school [see comments] Mitchell KJ. **Acad Med** 1990 Mar;65(3):149–58 (32 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Predicting matriculation [letter; comment] Nelson MS. **Acad Med** 1990 May;65(5):308–9 Comment on: Acad Med 1989 Aug;64(8):458–62.

The effect of level of expertise on answer key development. Norcini JJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S15–6

Demographic variables in medical school admission [see comments] Nowacek G, et al. **Acad Med** 1990 Mar; 65(3):140–4 (34 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

A matching program for medical school admissions. Pops MA. **Acad Med** 1990 Mar;65(3):188–9

Predicting minority students' success in medical school [see comments] Sedlacek WE, et al. **Acad Med** 1990 Mar; 65(3):161–6 (65 ref.) Comment in: Acad Med 1990 Mar;65(3):183–7.

Moral dilemmas in medical school admission. Self DJ. **Acad Med** 1990 Mar;65(3):179–83

Help for the gatekeepers: comment and summation on the admission process [comment] Spooner CE Jr. **Acad Med** 1990 Mar;65(3):183–7 (12 ref.) Comment on: Acad Med 1990 Mar;65(3):136–9. Comment on: Acad Med 1990 Mar;65(3):140–4. Comment on: Acad Med 1990 Mar;65(3):145–9. Comment on: Acad Med 1990 Mar;65(3):149–58. Comment on: Acad Med 1990 Mar;65(3):161–6.

A comparison of free-response and cued-response diagnosis scores in an evaluation of clinical competence utilizing standardized patients. Stillman PL, et al. **Acad Med** 1990 Sep;65(9 Suppl):S27–8

The interview: one more life? Taylor TC. **Acad Med** 1990 Mar;65(3):177–8

Revitalizing the undergraduate college—medical school linkage [letter] Thomson WA, et al. **Acad Med** 1990 Aug; 65(8):522

Use of class ranking in deans' letters. Toewe CH 2d, et al. **Acad Med** 1989 Nov;64(11):690–1

Generalizability of standardized patients' satisfaction ratings of their clinical encounter with fourth-year medical students. Vu NV, et al. **Acad Med** 1990 Sep;65(9 Suppl):S29–30

A new approach to standardizing the dean's letter. Wagoner NE, et al. **Acad Med** 1989 Nov;64(11):688–9

Psychological interpretation of labels used to evaluate third-year medical students. Xakellis GC, et al. **Acad Med** 1990 Sep;65(9 Suppl):S57-8

The first six years' experience with the Pathology Residents' In-Service Examination, 1983-1988. Lockard WT Jr, et al. **Am J Clin Pathol** 1989 Oct;92(4 Suppl 1):S11-22

Development of a level I fieldwork evaluation. Brown S, et al. **Am J Occup Ther** 1989 Oct;43(10):677-82

The relationship between admission criteria and practice preferences. Swinehart S, et al. **Am J Occup Ther** 1990 May;44(5):447-52

A population survey on legislative measures to restrict smoking in Ontario: 4. Variables related to knowledge of active and passive smoking health effects and to predicted behavior of smokers and nonsmokers. Pederson LL, et al. **Am J Prev Med** 1989 Nov-Dec;5(6):323-9

Influence of clerkship structure and timing on individual student performance. Baciewicz FA Jr, et al. **Am J Surg** 1990 Feb;159(2):265-8

The knowledge base of certified internists. Relationships to training, practice type, and other physician characteristics. Carline JD, et al. **Arch Intern Med** 1989 Oct;149(10):2311-3

Special Premedical Studies Program--students' perspective. Bartlett J, et al. **Arctic Med Res** 1988;47 Suppl 1:327-9

Aptitude testing and the selection of dental students. Spratley MH. **Aust Dent J** 1990 Apr;35(2):159-68 (93 ref.)

Breastfeeding: attitudes and knowledge of health professionals. Lowe T. **Aust Fam Physician** 1990 Mar; 19(3):392, 395-6, 398

Analysis of the RACGP Fellowship examination results. Spike NA, et al. **Aust Fam Physician** 1990 May;19(5):767-9, 771-5

Psychomotor screening for USAF pilot candidates: selecting a valid criterion. Cox RH. **Aviat Space Environ Med** 1989 Dec;60(12):1153-6

A note on the covariance of the Mantel-Haenszel log-odds-ratio estimator and the sample marginal rates. Holland PW. **Biometrics** 1989 Sep;45(3):1009-16

Cardiopulmonary resuscitation and the MRCGP examination [letter; comment] **BMJ** 1990 Jan 27;300(6719):258 Comment on: BMJ 1990 Jan 6;300(6716):44.

'MGDS examination' [letter] **Br Dent J** 1990 May 5; 168(9):347-8

MGDS examination' [letter; comment] **Br Dent J** 1989 Dec 9-23;167(11):368 Comment on: Br Dent J 1989 Nov 11;167(9):302-3.

'MGDS examination' [letter; comment] **Br Dent J** 1990 Mar 24;168(6):228-9 Comment on: Br Dent J 1989 Nov 11;167(9):302-3.

'MGDS examination' [letter; comment] Maund PR. **Br Dent J** 1990 Feb 24;168(4):137-8 Comment on: Br Dent J 1990 Jan 20;168(2):52-4.

The MGDS: a candidate's view--Part 1. Scola CM. **Br Dent J** 1990 Feb 10;168(3):125-6

The MGDS: a candidate's view--Part 3. Scola CM. **Br Dent J** 1990 Apr 7;168(7):306-8

A longitudinal study of the value of a spatial relations test in selecting dental students. Smith BG. **Br Dent J** 1989 Nov 11;167(9):305-8

Comparison of candidates who passed or failed the final (Part Three) examination for the F.F.A.R.C.S. (Eng.) in 1988. David AC, et al. **Br J Anaesth** 1990 Jun;64(6):752-7

The MRCPsych examination. Holden NL. **Br J Hosp Med** 1989 Nov;42(5):415-6

MRCPsych Part One: multiple-choice questions. Ryley P. **Br J Hosp Med** 1989 Nov;42(5):417-8

Provincial origin of first-time writers of the Canadian Dental Aptitude Test. Bennett IC, et al. **Can Dent Assoc J** 1990 Feb;56(2):129-34

Passing the oral examination for specialist qualification in psychiatry: Part II. Kline SA, et al. **Can J Psychiatry** 1989 Dec;34(9):925-6

Selection of medical students [letter] **Can Med Assoc J** 1975 Oct 18;113(8):712, 716

Standardized testing of patient management skills. A computer-based method. Volle RL. **Clin Orthop** 1990 Aug; (257):47-51

Readability of diabetes self-report measures [letter] Wysocki T, et al. **Diabetes Care** 1989 Nov-Dec;12(10):752-3

A comparison of the modified essay question and multiple choice question formats: their relationship to clinical performance. Rabinowitz HK, et al. **Fam Med** 1989 Sep-Oct;21(5):364-7

AIDS knowledge, perceived risk and prevention among adolescent clients of a family planning clinic. Weisman CS, et al. **Fam Plann Perspect** 1989 Sep-Oct;21(5):213-7

Sex education and knowledge of pregnancy risk among U.S. teenage women. Zelnik M. **Fam Plann Perspect** 1979 Nov-Dec;11(6):355-7

When family practice residents are parents: effect on in-training examination scores. Madlon-Kay DJ. **Fam Pract Res J** 1989 Fall-Winter;9(1):53-6

Assessment of gerontology certificate program quality: a follow-up study of graduates. Euster GL. **Gerontol Geriatr Educ** 1989;9(4):59-72

Multiple choice questions: how to construct and how to evaluate? Srinivasa DK, et al. **Indian J Pediatr** 1989 Jan-Feb;56(1):69-74

Residency selection--you can't always get what you want [editorial; comment] Hillman BJ. **Invest Radiol** 1990 Jul; 25(7):761-2 Comment on: Invest Radiol 1990 Jul;25(7):855-9.

A prospective study of cognitive and noncognitive selection criteria as predictors of resident performance [see comments] Wood PS, et al. **Invest Radiol** 1990 Jul; 25(7):855-9 Comment in: Invest Radiol 1990 Jul;25(7):761-2.

Assessment of student selection practices and beliefs in dietetic internship programs. McCabe BJ, et al. **J Am Diet Assoc** 1990 Jan;90(1):119-23

Changes in achievement scores as a result of a joint optometry and education intervention program. Streff JW, et al. **J Am Optom Assoc** 1990 Jun;61(6):475-81

A nationwide evaluation of the academic performance of male and female optometry students. Trick LR, et al. **J Am Optom Assoc** 1990 Aug;61(8):609-12

Risk factor knowledge, status, and change in a community screening project. Sutterer JR, et al. **J Community Health** 1989 Fall;14(3):137-47

Educational outcomes: their impact on graduate pediatric dentistry education. Adair SM. **J Dent Educ** 1990 Mar; 54(3):188-90

Assessment of educational outcomes in pediatric dentistry: a site examiner's perspective. Casamassimo PS. **J Dent Educ** 1990 Mar;54(3):191-3

Gender differences in item performance and predictive validity on the DAT Quantitative Reasoning Test. Smith RM, et al. **J Dent Educ** 1989 Dec;53(12):708-11

The staple. Sklar DP. **J Emerg Med** 1990 May-Jun;8(3):347-8

Advanced achievement in internal medicine: the end of the line for voluntary recertification [editorial] [see comments] Langdon LO, et al. **J Gen Intern Med** 1989 Nov-Dec; 4(6):557-9 Comment in: J Gen Intern Med 1990 May-Jun;5(3):273.

National boards and the minority medical student [editorial] Epps AC. **J Natl Med Assoc** 1990 Mar;82(3):161-3

Co-assessment as a unique approach to measuring students' clinical abilities. Anderson E, et al. **J Nurs Educ** 1990 Jan; 29(1):42-3

A comprehensive approach to preparation for NCLEX-RN. Baradell JG, et al. **J Nurs Educ** 1990 Mar;29(3):109-13

Explaining differences in NCLEX-RN scores with certain cognitive and non-cognitive factors for new baccalaureate nurse graduates. Dell MS, et al. **J Nurs Educ** 1990 Apr; 29(4):158-62

The response of higher education to the shortage of nursing school applicants. Grubbs LM. **J Nurs Educ** 1989 Sep; 28(7):295-7

Academic predictors of success on the NCLEX-RN examination for associate degree nursing students. Lengacher CA, et al. **J Nurs Educ** 1990 Apr;29(4):163-9

Portfolios and RNs: an evaluation. Oechsle L, et al. **J Nurs Educ** 1990 Feb;29(2):54-9

The effects of 60 beats per minute music on test taking anxiety among nursing students. Summers S, et al. **J Nurs Educ** 1990 Feb;29(2):66-70

Diagnostic evaluation and grading in nursing laboratory courses. Wilhite MJ. **J Nurs Educ** 1990 Jan;29(1):39-40

Baccalaureate student nurse success prediction: a replication. Wold JE, et al. **J Nurs Educ** 1990 Feb;29(2):84-9

Side effects from studying for examinations. Bennett JD, et al. **J R Army Med Corps** 1990 Jun;136(2):111-3 (23 ref.)

Timing and purpose of the MRCGP examination [see comments] Roberts G. **J R Coll Gen Pract** 1989 Jan; 39(318):30-1 Comment in: J R Coll Gen Pract 1989 Jun;39(323):263-4.

Black looks ... at assessment. Black D. **J R Coll Physicians Lond** 1990 Apr;24(2):76-7

Quality control in surgical training--do we need higher examinations? [letter; comment] Fraser S. **J R Coll Surg Edinb** 1989 Aug;34(4):227 Comment on: J R Coll Surg Edinb 1988 Apr;33(2):98-102.

Medical student selection [letter] **J R Soc Med** 1990 Jun; 83(6):414-5

Medical student selection [letter] Horton R. **J R Soc Med** 1990 Feb;83(2):125-6

Medical student selection [letter; comment] Roath S. **J R Soc Med** 1989 Sep;82(9):574 Comment on: J R Soc Med 1989 May;82(5):288-91.

The impact of a preschool health curriculum on children's health knowledge. Hendricks CM, et al. **J Sch Health** 1989 Nov;59(9):389-92

The ASHA national HIV education needs assessment of health and education professionals. Kerr DL, et al. **J Sch Health** 1989 Sep;59(7):301-7

Cognition and affect in evaluations of stereotyped group members. Jackson LA, et al. **J Soc Psychol** 1989 Oct; 129(5):659-72

Mature entrants to medicine [letter] Fink CG. **Lancet** 1989 Nov 18;2(8673):1220

Mature entrants to medicine [letter; comment] Howdle PD. **Lancet** 1989 Oct 14;2(8668):922 Comment on: Lancet 1989 Sep 16;2(8664):679.

Academic, social and cultural factors influencing medical school grade performance. Alfayez SF, et al. **Med Educ** 1990 May;24(3):230-8

Elaborated learning in undergraduate medical education. Coles CR. **Med Educ** 1990 Jan;24(1):14-22

Academic selection criteria and subsequent performance. Montague W, et al. **Med Educ** 1990 Mar;24(2):151-7

Academic performance of students admitted after repeating entrance examinations to medical school. Price J, et al. **Med Educ** 1990 May;24(3):212-8

The effect of clerkship site on medical student examination grades. Puryear DA, et al. **Med Educ** 1990 May; 24(3):239-42

Comparison of performance of students from different high school systems in medical sciences at Kuwait University [letter; comment] Shuqaidef S. **Med Educ** 1990 May; 24(3):313-4 Comment on: Med Educ 1989 Jul;23(4):395-8.

Academic standards and changing patterns of medical school admissions: a Malaysian study. Tan CM. **Med Educ** 1990 Jul;24(4):319-27

Anxiety and study methods in preclinical students: causal relation to examination performance. Tooth D, et al. **Med Educ** 1989 Sep;23(5):416-21

Some solutions to the shortage of general practitioners in rural Australia. Part 1. Medical school selection. Kamien M, et al. **Med J Aust** 1990 Jul 16;153(2):105-7

Do you know? An opportunity to assess how up-to-date you are with the medical education literature. Harden RM. **Med Teach** 1989;11(3-4):341-4

Do you know? An opportunity to assess how up-to-date you are with the medical education literature. Harden RM. **Med Teach** 1989;11(2):233-6

Effective in-training evaluation. Maudsley RF. **Med Teach** 1989;11(3-4):285-90

Self-assessment in problem-based groups. Rezler AG. **Med Teach** 1989;11(2):151-6

What is ... normative versus criterion-referenced assessment. Turnbull JM. **Med Teach** 1989;11(2):145-50

Physician recredentialing [letter] Reeves PE. **N Y State J Med** 1990 Feb;90(2):76

Using NBME test scores to predict resident OKAP performance [letter; comment] Mindel JS. **Ophthalmology** 1989 Oct;96(10):1575 Comment on: Ophthalmology 1989 Apr;96(4):552-4.

Effect of station examination item sampling on generalizability of student performance. Stratford PW, et al. **Phys Ther** 1990 Jan;70(1):31-6

A study strategy for the MRCGP examination. Palmer K. **Practitioner** 1989 Jan;233(1461):49-51

Validating the Kaufman Test of Educational Achievement, Brief Form with educable mentally retarded students. Posey W, et al. **Psychol Rep** 1989 Dec;65(3 Pt 2):1225-6

"Hello, testing, testing...". Hulse SF. **Radiol Technol** 1989 Sep-Oct;61(1):65-7

Development of a procedures laboratory evaluation tool. Key SJ. **Radiol Technol** 1989 Sep-Oct;61(1):57-62

Statistical evaluation of admission criteria for a radiography program. Winkler NT, et al. **Radiol Technol** 1989 Nov-Dec; 61(2):125-9

Measuring cardiopulmonary resuscitation performance: a comparison of the Heartsaver checklist to manikin strip. Mancini ME, et al. **Resuscitation** 1990 Apr;19(2):135-41

Pre-examination psychotropic drug use by 5th-year medical students at the University of Cape Town. Flisher AJ. **S Afr Med J** 1989 Nov 18;76(10):541-3

Selection of medical students--a follow-up study. Mitchell G, et al. **S Afr Med J** 1990 Sep 15;78(6):316-9

Standardisation of multiple-choice questionnaire for evaluating medical officers' training in psychiatry. Sriram TG, et al. **Soc Psychiatry Psychiatr Epidemiol** 1989 Nov; 24(6):327-31

Predictors of nursing students' math performance. Flynn JB, et al. **West J Nurs Res** 1990 Aug;12(4):537-45

[Selection of medical residents for surgery education in The Netherlands (letter)] Ansem R, et al. **Ned Tijdschr Geneeskd** 1990 Feb 10;134(6):305-6 **(Dut)**

[Selection of medical residents for training in surgery in The Netherlands] Keeman JN, et al. **Ned Tijdschr Geneeskd** 1989 Nov 11;133(45):2239-42 **(Dut)**

[Comparison of the diagnostic performance of students of the old and new medical curriculum at the Laval University (published erratum appears in Union Med Can 1989 Nov-Dec;118(6):253)] Bordage G, et al. **Union Med Can** 1989 Sep-Oct;118(5):187-8, 191-2, 194-5 (Eng. Abstr.) **(Fre)**

[Homosexuality and psychoanalytic hypocrisy] Moor P. **Psyche (Stuttg)** 1990 Jun;44(6):545-58 (Eng. Abstr.) **(Ger)**

[Sex specific stress reactions in students during final examinations] Scheuch K. **Z Gesamte Hyg** 1989 Dec; 35(12):699-702 (Eng. Abstr.) **(Ger)**

[Test anxiety: various aspects] Farnè M, et al. **Boll Soc Ital Biol Sper** 1989 Jun;65(6):571-3 (Eng. Abstr.) **(Ita)**

[Certification and its role in the evaluation of the degree of professional qualifications of obstetricians and gynecologists] Mura'vev MV, et al. **Akush Ginekol (Mosk)** 1989 Jul;(7):65-6 **(Rus)**

[Changes in the physical work capacity and the blood biochemical indices of students during an examination session] Kazrik AT, et al. **Fiziol Cheloveka** 1989 Sep-Oct; 15(5):113-7 **(Rus)**

[3-step summary control of students' knowledge concerning a course on general surgery] Chernov VN, et al. **Klin Khir** 1990;(5):30-1 **(Rus)**

[Certification of physicians-therapists according to the qualifications category] Mura'vev MV, et al. **Klin Med (Mosk)** 1989 Nov;67(11):140-2 **(Rus)**

[Elaboration of qualification characteristics of a pediatrician for certification of the qualification categories] Murav'ev MV, et al. **Pediatriia** 1990;(1):85-9 **(Rus)**

[Practical activities of a pediatrician and the tasks of postgraduate training] Tarasova TV. **Pediatriia** 1990;

(1):82–5 (Rus)
[The state examination in internal diseases at medical schools] Mikhailov AA. **Sov Med** 1990;(3):43–6 (Rus)
[Methods of developing qualification tests in the evaluation of skills of physicians–therapeutists] Murav'ev MV, et al. **Sov Med** 1990;(6):59–62 (Rus)
[Methods of pedagogical assessment of qualifications in postgraduate medical education] Murav'ev MV, et al. **Sov Zdravookhr** 1989;(12):43–8 (Eng. Abstr.) (Rus)
[The effect of qualitatively different nutrition on various indicators of the functional status of the parasympathetic nervous system and blood proteins in students during an examination period] Kerimova MG, et al. **Vopr Pitan** 1989 Nov–Dec;(6):17–20 (Eng. Abstr.) (Rus)
[A model for the design of a checking and teaching program using the Elektronika D3–28 microcomputer] Blinova LL, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug;(8):111–4 (Rus)
[The structured interview: predictive value of the academic decision] Cora de Block ME. **P R Health Sci J** 1989 Aug;8(2):271–5 (Spa)
[Evaluation tests in medicine: analysis of the licensure exam in the 1984–85 and 86–87 courses in the Medical School of the University of Valladolid (letter)] Velasco A, et al. **Rev Clin Esp** 1990 Apr;186(6):311–2 (Spa)
[The delegation of the Swedish Medical Society: improved guidance on medical terminology. A continuing support for specialists' examinations] **Lakartidningen** 1989 Nov 15;86(46):3970–1 (Swe)

ECONOMICS

Is it worth it? A look at the costs and benefits of an OSCE for second–year medical students. Frye AW, et al. **Med Teach** 1989;11(3–4):291–3

METHODS

The quarterly profile examination. Arnold L, et al. **Acad Med** 1990 Aug;65(8):515–6
The validity of an essay test of clinical judgment. Day SC, et al. **Acad Med** 1990 Sep;65(9 Suppl):S39–40
Predictive validity of a national examination for medical graduates in the People's Republic of China. Liu BX, et al. **Acad Med** 1990 Aug;65(8):505–11
Order effects in standardized patient examinations. Lloyd JS, et al. **Acad Med** 1990 Sep;65(9 Suppl):S51–2
The assessment of clinical skills/competence/performance. Miller GE. **Acad Med** 1990 Sep;65(9 Suppl):S63–7
The scoring and reproducibility of an essay test of clinical judgment. Norcini JJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S41–2
Comparison of "fact–recall" with "higher–order" questions in multiple–choice examinations as predictors of clinical performance of medical students. Peitzman SJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S59–60
Student fatigue as a variable affecting performance in an objective structured clinical examination. Rutala PJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S53–4
An assessment of an oral examination format for evaluating clinical competence in emergency medicine. Solomon DJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S43–4
Evaluating preclinical medical students by using computer–based problem–solving examinations. Stevens RH, et al. **Acad Med** 1989 Nov;64(11):685–7
Factors associated with the accuracy of standardized patient presentation. Tamblyn RM, et al. **Acad Med** 1990 Sep;65(9 Suppl):S55–6
Reliability and validity of the objective structured clinical examination in assessing surgical residents. Cohen R, et al. **Am J Surg** 1990 Sep;160(3):302–5
A model for the objective assessment of clinical training programs: the initial application to two pulmonary medicine fellowship programs. Badesch DB, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1136–42
MRCPsych Parts One and Two: the clinical examinations. Holden NL. **Br J Hosp Med** 1990 Jun;43(6):466–8
MCQs in general internal medicine. Lehner P. **Br J Hosp Med** 1990 Jun;43(6):464–5
Developing a test of knowledge of surgical options for breast cancer. Ward S, et al. **Cancer Nurs** 1990 Jun;13(3):191–6
How to write and take objective, multiple choice examinations. Quantitative analysis of the scientific data base. Lambert WC, et al. **Int J Dermatol** 1989 Dec;28(10):674–9
A technique for oral board preparation. Messmer JM. **Invest Radiol** 1989 Oct;24(10):813–4
Predicting academic success in a nontraditional program. Tompkins LS, et al. **J Allied Health** 1990 Winter;19(1):15–24
Use of open–ended essays and computer content analysis to survey college students' knowledge of AIDS. Fan DP, et al. **J Am Coll Health** 1990 Mar;38(5):221–3, 226–9
Essay questions on exams [letter] Horton J. **J Cancer Educ** 1988;3(2):145–7
A self–learning approach to history–taking. Sideris DA, et al. **Med Educ** 1990 Jan;24(1):46–51
Review of the phase I and phase II teaching programmes in the School of Medical Sciences, Universiti Sains Malaysia. Roslani AM, et al. **Med J Malaysia** 1989 Mar;44(1):75–82
The National Board Examination (Part I) as a performance measurement tool. One student's perspective. Adams RS. **N C Med J** 1990 Jul;51(7):353–6
An assessment of a postgraduate examination of competence in general practice: Part 1—Reliability. Thomson AN. **N Z Med J** 1990 Apr 25;103(888):182–4
Student evaluation in obstetrics and gynecology: self– versus departmental assessment. Herbert WN, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):458–61
A new method for teaching architectural studios: use of objective feedback to help design students refine their capacity for self–evaluation. Stamps AE 3d. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):827–32
The MRCGP examination. Palmer K. **Practitioner** 1989 Apr 22;233(1467):584–5
A self–rating scale for evaluating memory in everyday life. Crook TH 3d, et al. **Psychol Aging** 1990 Mar;5(1):48–57
The application of a marking scheme to psychology projects by student radiographers. Gratton MO, et al. **Radiogr Today** 1989 Mar;55(622):24–6
Test statistics. Hulse SF. **Radiol Technol** 1989 Nov–Dec;61(2):139–41
Test performance of a local examination at a nonlocal site for evaluation of surgical clerks. Dunnington G, et al. **Surgery** 1990 Aug;108(2):236–9
[Objective structured clinical examination: a tool for evaluation and for teaching] Ber R, et al. **Harefuah** 1990 Apr 15;118(8):486–9 (Heb)
[Control of students' knowledge of histology, cytology and embryology using a computerized test system] Iurina NA, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):92–4 (Rus)
[Methodologic approach to the mastering and control of skills by the students at schools of public health] Dronov IS, et al. **Gig Sanit** 1989 Dec;(12):32–4 (Rus)
[Predicting the study progress of medical students] Lemiasev MF, et al. **Gig Sanit** 1989 Nov;(11):27–9 (Rus)
[Dynamics of the cardiac rhythmogram during various types of exams] Salmanov PL, et al. **Gig Sanit** 1989 Sep;(9):30–1 (Rus)
[Methods of the evaluation of clinical thinking of a physician–therapist] Golovskoĭ BV, et al. **Klin Med (Mosk)** 1989 Nov;67(11):136–7 (Rus)
[Experiences in conducting a written exam on pathologic physiology] Molotkov OV, et al. **Patol Fiziol Eksp Ter** 1989 Jul–Aug;(4):71–3 (Rus)
[A method for making up instructional tests on situational tasks of differential diagnosis] Shushliapin OI, et al. **Ter Arkh** 1990;62(1):130–4 (Rus)
[Experience with a combined test exam in dermatovenereology] Potekaev NS, et al. **Vestn Dermatol Venerol** 1989;(7):26–9 (Eng. Abstr.) (Rus)
[The practical trend in exams in dermatology and venereology] Savchak VI. **Vestn Dermatol Venerol** 1989;(10):24–5 (Eng. Abstr.) (Rus)
[Our experience in enhancing the information content of lectures and exercises in microbiology based on an assessment of the assimilation of knowledge obtained in other departments] Ivanov NA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Nov;(11):121–2 (Rus)
[Use of objective structured clinical examinations in the pre–graduation evaluation of medical students in pediatrics] Vento Torres M, et al. **An Esp Pediatr** 1990 Jan;32(1):41–8 (Eng. Abstr.) (Spa)
[Method for calculating the distribution of randomly expected scores in a false–true–do not know–type of test] Pérez–Padilla JR, et al. **Rev Invest Clin** 1989 Oct–Dec;41(4):375–9 (Eng. Abstr.) (Spa)
[Propedeutic course in the medical school at Panama University in 1989] de Camargo BS, et al. **Rev Med Panama** 1990 Jan;15(1):59–65 (Eng. Abstr.) (Spa)

STANDARDS

Setting content–based standards for national board exams: initial research for the Comprehensive Part I Examination. Swanson DB, et al. **Acad Med** 1990 Sep;65(9 Suppl):S17–8
The resident selection process in otolaryngology–head and neck surgery. Calhoun KH, et al. **Arch Otolaryngol Head Neck Surg** 1990 Sep;116(9):1041–3
A comparison of intra– and interjudge decision consistencies using analytic and holistic scoring criteria. Lunz ME, et al. **J Allied Health** 1990 Spring;19(2):173–9
Gender differences in item performance and predictive validity on the DAT Quantitative Reasoning Test. Smith RM, et al. **J Dent Educ** 1989 Dec;53(12):708–11
[The certification examination and its role in assessing the level of professional qualification of the therapist] Murav'ev MV, et al. **Ter Arkh** 1989;61(9):134–5 (Rus)

STATISTICS & NUMERICAL DATA

Selection criteria for dietetic internship admission: what do internship directors consider most important? Carruth BR, et al. **J Am Diet Assoc** 1990 Jul;90(7):999–1001
An analysis of prosthodontic procedures evaluated by state and regional dental licensing boards. Nimmo A, et al. **J Dent Educ** 1990 May;54(5):279–82
Incidence of measurement disturbances in the Dental Admission Quantitative Reasoning Test. Smith RM, et al. **J Dent Educ** 1990 Jun;54(6):314–8

EDUCATIONAL STATUS

Status report on the NBME's computer–based testing. Clyman SG, et al. **Acad Med** 1990 Apr;65(4):235–41
The association of education and socioeconomic status with the Mini Mental State Examination and the clinical diagnosis of dementia in elderly people. Brayne C, et al. **Age Ageing** 1990 Mar;19(2):91–6
Educational level, fatness, and fatness differences between husbands and wives. Garn SM, et al. **Am J Clin Nutr** 1989 Oct;50(4):740–5
School Breakfast Program and school performance. Meyers AF, et al. **Am J Dis Child** 1989 Oct;143(10):1234–9
Education, survival, and independence in elderly Catholic sisters, 1936–1988. Snowdon DA, et al. **Am J Epidemiol** 1989 Nov;130(5):999–1012
Comparison of education and occupation of adults with achondroplasia with same–sex sibs. Roizen N, et al. **Am J Med Genet** 1990 Feb;35(2):257–60
Use of illiterate volunteer workers for malaria case detection and treatment. Ruebush TK 2d, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):119–25
Associations between clinical status questionnaire scores and formal education level in persons with systemic lupus erythematosus. Callahan LF, et al. **Arthritis Rheum** 1990 Mar;33(3):407–11
Neuropsychological assessment in illiterates: visuospatial and memory abilities. Ardila A, et al. **Brain Cogn** 1989 Nov;11(2):147–66
Neuropsychological assessment in illiterates. II. Language and praxic abilities. Rosselli M, et al. **Brain Cogn** 1990 Mar;12(2):281–96
Knowledge, values, attitudes and behavioural intent of Nova Scotia nurses toward AIDS and patients with AIDS. Kerr CI, et al. **Can J Public Health** 1990 Mar–Apr;81(2):125–8
Relationship of head circumference to measures of school performance. Desch LW, et al. **Clin Pediatr (Phila)** 1990 Jul;29(7):389–92
Remarriage patterns of black and white women: reassessing the role of educational attainment. Smock PJ. **Demography** 1990 Aug;27(3):467–73
Nuclear literacy. Mossman KL. **Health Phys** 1990 May;58(5):639–43
Literacy crisis threatens hospital workforce. Eubanks P. **Hospitals** 1990 Jan 20;64(2):50, 52, 54
Child labour, adult literacy and employment rates in India. Raju TN. **Indian J Pediatr** 1989 Mar–Apr;56(2):193–200
Prior college experience and attitude change during the middle years: a panel study. Willits FK, et al. **Int J Aging Hum Dev** 1989;29(4):283–300
Educational level and mortality in a 32–year follow–up study of 18–year–old men in The Netherlands. Doornbos G, et al. **Int J Epidemiol** 1990 Jun;19(2):374–9
Educational status and coronary heart disease in Puerto Rico: the Puerto Rico Heart Health Program. Sorlie PD, et al. **Int J Epidemiol** 1990 Mar;19(1):59–65
Early recollections and college achievement. Rogers GW Jr. **J Individ Psychol** 1977 Nov;33(2):233–9
Otitis media in infancy and intellectual ability, school achievement, speech, and language at age 7 years. Greater Boston Otitis Media Study Group. Teele DW, et al. **J Infect Dis** 1990 Sep;162(3):685–94
The relationship between selected educational outcomes of senior RN–to–BSN students and their choice of advanced placement options available in the Maryland nursing articulation model. Rapson MF, et al. **J Prof Nurs** 1990 Mar–Apr;6(2):113–20
Listener experience and perception of voice quality. Kreiman J, et al. **J Speech Hear Res** 1990 Mar;33(1):103–15
Battling illiteracy: each one, teach one. Barbee P. **Mo Med** 1990 Jan;87(1):15–6
Level of reading difficulty in the American College of Obstetricians and Gynecologists patient education pamphlets. Zion AB, et al. **Obstet Gynecol** 1989 Dec;74(6):955–60
Celiac disease: parental knowledge and attitudes of dietary compliance. Anson O, et al. **Pediatrics** 1990 Jan;85(1):98–103
Educational outcomes and illness behaviors of participants in a child–initiated care system: a 12–year follow–up study. Lewis CE, et al. **Pediatrics** 1989 Nov;84(5):845–50
Education, disease prevalence and health service utilization in the Swiss National Health Survey "SOMIPOPS". Gutzwiller F, et al. **Prev Med** 1989 Jul;18(4):452–9
Cigarette smoking behavior is strongly related to educational status: the CARDIA study. Wagenknecht LE, et al. **Prev Med** 1990 Mar;19(2):158–69
Social class disparities in risk factors for disease: eight–year prevalence patterns by level of education. Winkleby MA, et al. **Prev Med** 1990 Jan;19(1):1–12
The influence of education, social class and sex on Mini–Mental State scores. O'Connor DW, et al. **Psychol Med** 1989 Aug;19(3):771–6
Is there a hard–to–reach audience? Freimuth VS, et al. **Public Health Rep** 1990 May–Jun;105(3):232–8
Observations on early school failure in Zulu children. Frets–Van Buuren JJ, et al. **S Afr Med J** 1990 Feb 3;77(3):144–6
School absences, school achievements and personality traits of the haemophilic child. Kvist B, et al. **Scand J Soc Med** 1990 Jun;18(2):125–32
Ethnicity, sibling, and family correlates of young adults'

status attainment: a follow-up study. Marjoribanks K. **Soc Biol** 1989 Spring-Summer;36(1-2):23-31
Women's education and its influence on attitudes to aspects of child-care in a village community in Kerala. Kutty VR. **Soc Sci Med** 1989;29(11):1299-303
Do first- and second-year preclinical course scores predict student performance during the surgical clerkship? Baciewicz FA Jr, et al. **Surgery** 1990 May;107(5):581-3
Use of antenatal cards for literate health personnel and illiterate traditional birth attendants: an overview. Chabot HT, et al. **Trop Doct** 1990 Jan;20(1):21-4
Knowledge and attitudes about tuberculosis of black hospitalised TB patients. Westaway MS. **Tubercle** 1990 Mar;71(1):55-9
[Educational level and psychosexual adaptation in women] Raboch J Jr, et al. **Cesk Psychiatr** 1989 Dec;85(6):381-3 (Eng. Abstr.) (Cze)
[Testing student knowledge of emergency care at the Charles University School of General Medicine and the processing of certain conditions in primary emergency care into computerized educational training models] Souček P, et al. **Cesk Zdrav** 1990 Jan;38(1):24-9 (Eng. Abstr.) (Cze)
[Yes, I'm quitting: a scripto-visual tool on anti-smoking for functionally illiterate women. Problems and educational research] Renaud L, et al. **Hygie** 1990 Mar;9(1):16-21 (Eng. Abstr.) (Fre)
[Relations between myopia, education and intelligence] Rosner M, et al. **Harefuah** 1990 Mar 15;118(6):337-9 (31 ref.) (Heb)
[Risk of developing coronary disease in relation to the level of education and type of work in a male population of Warsaw factories. I. Evaluation of the relation of the level of education and analyzed risk factors of coronary disease] Wągrowska H. **Kardiol Pol** 1989;32 Suppl 1:51-6 (Eng. Abstr.) (Pol)
[Risk of developing coronary disease in relation to the level of education and type of work in a male population of Warsaw factories. II. Relation of the type of work and analyzed risk factors of coronary disease] Wągrowska H. **Kardiol Pol** 1989;32 Suppl 1:57-60 (Eng. Abstr.) (Pol)
[Risk of developing coronary disease in relation to the level of education and type of work in a male population of Warsaw factories. III. Evaluation of the relation of the level of education and type of work and changes in the degree of risk during the conduction of a prevention program] Wągrowska H. **Kardiol Pol** 1989;32 Suppl 1:61-70 (Eng. Abstr.) (Pol)
[Views of physicians in Zemskie on the role of education of the population in the health education of peasants] Popushol EP, et al. **Sov Zdravookhr** 1990;(2):72-4 (Rus)

EDWARDS PERSONAL PREFERENCE SCHEDULE see under **PERSONALITY INVENTORY**

EEG see **ELECTROENCEPHALOGRAPHY**

EEL, CONGO see **URODELA**

EEL, ELECTRIC see **ELECTROPHORUS**

EELS

Pike eel (Muraenesox cinereus) gonadotropin. Amino acid sequences of both alpha and beta subunits. Liu CS, et al. **Eur J Biochem** 1989 Dec 8;186(1-2):105-14

ANATOMY & HISTOLOGY

The structure and ultrastructure of the rostral cartilage in the spiny eel, Macrognathus siamensis (Teleostei: Mastacembeloidei). Benjamin M, et al. **J Anat** 1990 Apr; 169:37-47
Associations between pericytes and capillary endothelium in the eel rete mirabile. Buchanan RA, et al. **Microvasc Res** 1990 Jan;39(1):60-76

BLOOD

Buffering characteristics of eel blood at the extreme conditions in the swimbladder. Pelster B, et al. **Respir Physiol** 1990 Mar;79(3):219-29

METABOLISM

Influence of fatty acid composition of diet on cholesterol content of eel liver and muscle. Burgos C, et al. **Arch Int Physiol Biochim** 1990 Mar;98(1):1-6
The eel pancreas contains opiate-like but not corticotropin-like materials. Ng TB. **Biochem Int** 1990; 20(6):1161-7
Capillaries phosphorylate glucose in a concentration-dependent manner through a glucokinase-like enzyme: a study in the eel. Belfiore F, et al. **Biochem Med Metab Biol** 1990 Jun;43(3):226-33
Partial purification of parathyrin from the corpuscles of Stannius (PCS) of the eel (Anguilla anguilla, L.). Milet C, et al. **Gen Comp Endocrinol** 1989 Oct;76(1):83-94
CO2 back-diffusion in the rete aids O2 secretion in the swimbladder of the eel. Kobayashi H, et al. **Respir Physiol** 1990 Mar;79(3):231-42
[Regional and recent trends in the chlorinated hydrocarbon levels in eels from Berlin waters] Boiselle C, et al. **Berl Munch Tierarztl Wochenschr** 1990 May 1; 103(5):158-66 (Eng. Abstr.) (Ger)

PHYSIOLOGY

Water and lactate movement in the swimbladder of the eel, Anguilla anguilla. Kobayashi H, et al. **Respir Physiol** 1989 Oct;78(1):45-57

EELS, CATFISH see **CATFISH**

EFFECT MODIFIERS (EPIDEMIOLOGY)

Practical problems in interim analyses, with particular regard to estimation. Pocock SJ, et al. **Controlled Clin Trials** 1989 Dec;10(4 Suppl):209S-221S
Analytical implications of epidemiological concepts of interaction. Pearce N. **Int J Epidemiol** 1989 Dec; 18(4):976-80

EFFERENT PATHWAYS

Origins and terminations of bulbospinal axons that contain serotonin and either enkephalin or substance-P in the North American opossum. Reddy VK, et al. **J Comp Neurol** 1990 Apr 1;294(1):96-108

ANATOMY & HISTOLOGY

The connections of presubiculum and parasubiculum in the rat. van Groen T, et al. **Brain Res** 1990 Jun 4; 518(1-2):227-43
Organization of afferent and efferent pathways in the pudendal nerve of the female cat. Thor KB, et al. **J Comp Neurol** 1989 Oct 8;288(2):263-79
Nondopaminergic prefrontocortical efferent fibers modulate D1 receptor denervation supersensitivity in specific regions of the rat striatum. Herve D, et al. **J Neurosci** 1989 Nov; 9(11):3699-708

PHYSIOLOGY

Retinohypothalamic tract stimulation activates thermogenesis in brown adipose tissue in the rat. Amir S. **Brain Res** 1989 Nov 27;503(1):163-6
Neurochemical evidence for the activation of the 'efferent' function of capsaicin-sensitive nerves by lowering of the pH in the guinea-pig urinary bladder. Geppetti P, et al. **Neurosci Lett** 1990 Jun 22;114(1):101-6
Efferent optic nerve impulses in response to illumination of single eyes of orb weaving spiders. Yamashita S. **Vision Res** 1990;30(6):817-21

ULTRASTRUCTURE

Efferent projections from the lateral septal nucleus to the anterior hypothalamus in the rat: a study combining Phaseolus vulgaris-leucoagglutinin tracing with vasopressin immunocytochemistry. Staiger JF, et al. **Cell Tissue Res** 1990 Jul;261(1):17-23

EFFICIENCY

see related
FATIGUE

Mechanical work and efficiency in treadmill running at aerobic and anaerobic thresholds. Luhtanen P, et al. **Acta Physiol Scand** 1990 May;139(1):153-9
Increasing productivity through "people planning". Smith JE. **Am J Hosp Pharm** 1990 Feb;47(2):325-9
The relationship of educational level to the development and dissemination of knowledge by occupational therapists. Storm W. **Am J Occup Ther** 1990 Jan;44(1):39-46
The efficiency of management of emergency surgery in a district general hospital--a prospective study. Flook DJ, et al. **Ann R Coll Surg Engl** 1990 Jan;72(1):27-31
Made-to-order suture packs. Increasing OR efficiency. Zokal F. **AORN J** 1990 Mar;51(3):817, 819, 822 passim
Preliminary results from the evaluation of cockpit resource management training: performance ratings of flightcrews. Helmreich RL, et al. **Aviat Space Environ Med** 1990 Jun; 61(6):576-9
NHS review. Improving clinical effectiveness in the NHS: an alternative to the white paper. Quam L. **BMJ** 1989 Aug 12;299(6696):448-50
Multidisciplinary functioning: will it still be of use? [editorial] Fottrell E. **Br J Hosp Med** 1990 Apr;43(4):253
Productivity measurement in hospital libraries: a case report. Phillips SA. **Bull Med Libr Assoc** 1990 Apr;78(2):146-53
Therapist efficiency and clinic accessibility with the Mental Health Research Institute brief therapy model. Chubb H, et al. **Community Ment Health J** 1990 Apr;26(2):139-49
APACHE III study design: analytic plan for evaluation of severity and outcome in intensive care unit patients. Efficiency and nurse staff. Draper E, et al. **Crit Care Med** 1989 Dec;17(12 Pt 2):S217-8
The importance of people [editorial] Newton WP. **Fam Med** 1990 May-Jun;22(3):182
Academic mentoring and family medicine's research productivity. Rogers JC, et al. **Fam Med** 1990 May-Jun; 22(3):186-90
The need for a national focus on health care productivity. Altman SH, et al. **Health Aff (Millwood)** 1990 Spring; 9(1):107-13
Operational efficiency research in Department of Veterans Affairs health services. Grover PL, et al. **Health Serv Res** 1990 Apr;25(1 Pt 2):159-68
Organizational determinants of efficiency and effectiveness in mental health partial care programs. Schinnar AP, et al. **Health Serv Res** 1990 Jun;25(2):387-420
Medical firms make clinics efficient. Moran EJ. **Hospitals** 1990 Apr 20;64(8):76, 78
Hospital productivity and intensity trends: 1980-87. Cromwell J, et al. **Inquiry** 1989 Fall;26(3):366-80
Physician inputs, outputs, and productivity, 1976-1986. Pope GC. **Inquiry** 1990 Summer;27(2):151-60
Noise, performance efficiency and safety. Smith A. **Int Arch Occup Environ Health** 1990;62(1):1-5 (23 ref.)
Age and creative productivity: nonlinear estimation of an information-processing model. Simonton DK. **Int J Aging Hum Dev** 1989;29(1):23-37
Corporatization of medicine: the use of medical management information systems to increase the clinical productivity of physicians. Feinglass J, et al. **Int J Health Serv** 1990; 20(2):233-52 (126 ref.)
Productivity measurement in foodservice: past accomplishments--a future alternative. Brown DM, et al. **J Am Diet Assoc** 1990 Jul;90(7):973-81 (92 ref.)
Effect of financial incentive on productivity in a postgraduate general dentistry program. Jensen OE, et al. **J Dent Educ** 1990 Apr;54(4):237-9
Factors associated with clinical dental faculty research productivity. Jones JE, et al. **J Dent Educ** 1989 Nov; 53(11):638-45
The efficiency of depression questionnaires for case finding in primary medical care. Coulehan JL, et al. **J Gen Intern Med** 1989 Nov-Dec;4(6):541-7 (67 ref.)
The combined effects of noise and illumination on the performance efficiency of visual search and neuromotor task components. Bhattacharya SK, et al. **J Hum Ergol (Tokyo)** 1989 Jun;18(1):41-51
Assigned and participative production standards and feedback affecting worker productivity in a repetitive production task. Das B, et al. **J Hum Ergol (Tokyo)** 1989 Jun;18(1):3-12
The moderating effects of production feedback and standards on the relationship between worker job attitudes and productivity. Das B, et al. **J Hum Ergol (Tokyo)** 1989 Jun; 18(1):33-9
Using mathematical programming to assess the relative performance of the health care industry. Huang YG. **J Med Syst** 1989 Jun;13(3):155-62
Outcomes of research consortium project. Rizzuto C, et al. **J Nurs Adm** 1990 Apr;20(4):13-7
Learning by doing in CABG surgery [see comments] Cromwell J, et al. **Med Care** 1990 Jan;28(1):6-18 Comment in: Med Care 1990 Jan;28(1):3-5.
The impact of nurse anesthetists on anesthesiologist productivity. Cromwell J, et al. **Med Care** 1990 Feb; 28(2):159-69
On saving time and saving money in CABGs [editorial; comment] Flood AB. **Med Care** 1990 Jan;28(1):3-5 Comment on: Med Care 1990 Jan;28(1):6-18.
Technical efficiency in nursing homes. Nyman JA, et al. **Med Care** 1990 Jun;28(6):541-51
Using relative productivity assessments for allocating housestaff to departments. Roizen MF, et al. **Med Care** 1990 Apr;28(4):369-77
Evaluating managerial efficiency of Veterans Administration medical centers using Data Envelopment Analysis. Sexton TR, et al. **Med Care** 1989 Dec;27(12):1175-88
Ownership and technical efficiency of hospitals. Valdmanis VG. **Med Care** 1990 Jun;28(6):552-61
Effects of nerve agent antidote and heat exposure on soldier performance in the BDU and MOPP-IV ensembles. Kobrick JL, et al. **Milit Med** 1990 Apr;155(4):159-62
Waiting patiently. Goitein M. **N Engl J Med** 1990 Aug 30; 323(9):604-8
Informed consent and economic efficiency [letter] Bowie RD. **N Z Med J** 1990 Feb 28;103(884):79-80
Haemodialysis efficiency after long-term treatment with recombinant human erythropoietin. Casati S, et al. **Nephrol Dial Transplant** 1989;4(8):718-20
Nursing research productivity in clinical settings. Betz CL, et al. **Nurs Outlook** 1990 Jul-Aug;38(4):180-3
Cost avoidance and productivity in owning and operating buildings. Woods JE. **Occup Med** 1989 Oct-Dec; 4(4):753-70 (38 ref.)
Age- and gender-related differences in clinical productivity among Canadian pediatricians. Rieder MJ, et al. **Pediatrics** 1990 Feb;85(2):144-9
Scholarly productivity: a regional study of physical therapy faculty in schools of allied health. Holcomb JD, et al. **Phys Ther** 1990 Feb;70(2):118-24
Integrating quality assurance and cost accounting to facilitate management efficiency. Bliersbach CM. **QRB** 1989 Oct; 15(10):302-5
Thermal stress and human performance. Enander AE, et al. **Scand J Work Environ Health** 1990;16 Suppl 1:44-50 (58 ref.)
Subjective, behavioral and psychophysiological effects of noise. Kjellberg A. **Scand J Work Environ Health** 1990;16 Suppl 1:29-38 (92 ref.)
Psychological aspects of occupational vibration. Kjellberg A. **Scand J Work Environ Health** 1990;16 Suppl 1:39-43 (33 ref.)
Efficiency gains from the addition of controls to matched sets in cohort studies. Raboud J, et al. **Stat Med** 1989 Aug;

8(8):977–85
Improving health care productivity [editorial] Cleverley WO. **Top Health Care Financ** 1989 Winter;16(2):v
Challenging new roles for medical and professional staff: managing costs and quality of care. Thorngren TA, et al. **Top Health Care Financ** 1990 Spring;16(3):1–11
Nursing organizing systems: a comparative study. Clark MF, et al. **West J Nurs Res** 1989 Dec;11(6):757–64
A conceptual framework for analyzing influences on research productivity in clinical settings. Pranulis MF, et al. **West J Nurs Res** 1990 Aug;12(4):563–5
Efficiency of leprosy control programmes [letter] Dagnew MB. **World Health Forum** 1989;10(3–4):433–4
[The work productivity of the dentist in cleaning the oral cavity with the use of intravenous premedication] Morozova LI, et al. **Stomatologiia (Mosk)** 1990 Jan–Feb; 69(1):86–7 **(Rus)**
[A comprehensive assessment of the medical and prophylactic support for the troops of a military district and the ways to enhance its efficiency] Spichev VP. **Voen Med Zh** 1990 Mar;(3):34–7 **(Rus)**
[Increase in hospital productivity and zero base planning] Alfonso Sánchez JL, et al. **Rev Sanid Hig Publica (Madr)** 1989 Jul–Aug;63(7–8):91–100 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Effect of inosine supplementation on 3-mile treadmill run performance and VO2 peak. Williams MH, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):517–22

PHYSIOLOGY

Orienteering performance and ingestion of glucose and glucose polymers. Kujala UM, et al. **Br J Sports Med** 1989 Jun;23(2):105–8
Developing norms for manual carrying tasks using mechanical efficiency as the optimization criterion. Dutta SP, et al. **Ergonomics** 1989 Aug;32(8):919–43
The mechanisms for minimizing energy expenditure in human locomotion. Saibene F. **Eur J Clin Nutr** 1990;44 Suppl 1:65–71 (21 ref.)
Physiological adaptations to weightlessness: effects on exercise and work performance. Convertino VA. **Exerc Sport Sci Rev** 1990;18:119–66 (108 ref.)
Maximum oxygen uptake, anaerobic power and neuromuscular performance characteristics in bandy players of two different competitive levels. Häkkinen K, et al. **J Sports Med Phys Fitness** 1990 Mar;30(1):67–73
Oxygen uptake and efficiency related to external work rate during loaded walking. Yano T. **J Sports Med Phys Fitness** 1989 Dec;29(4):388–93
The kinetics of rugby union scrummaging. Milburn PD. **J Sports Sci** 1990 Spring;8(1):47–60
Weight loss, dietary carbohydrate modifications, and high intensity, physical performance. Horswill CA, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):470–6
Longitudinal assessment of responses by triathletes to swimming, cycling, and running. Kohrt WM, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):569–75
The body as a bioenergetic system—lessons from systems engineering and comparative physiology. Linnarsson D. **Med Sci Sports Exerc** 1990 Feb;22(1):59–61
Bicycle pedalling forces as a function of pedalling rate and power output. Patterson RP, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):512–6
Responses of aerobically fit men and women to uphill/downhill walking and slow jogging. Pivarnik JM, et al. **Med Sci Sports Exerc** 1990 Feb;22(1):127–30
Influence of body hair removal on physiological responses during breaststroke swimming. Sharp RL, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):576–80
High-intensity exercise performance is not impaired by low intramuscular glycogen. Symons JD, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):550–7
The mechanical efficiency of front crawl swimming. Toussaint HM, et al. **Med Sci Sports Exerc** 1990 Jun; 22(3):402–8
Differences in propelling efficiency between competitive and triathlon swimmers. Toussaint HM. **Med Sci Sports Exerc** 1990 Jun;22(3):409–15
Applied physiology of squash. Montpetit RR. **Sports Med** 1990 Jul;10(1):31–41 (41 ref.)
[The efficiency of different forms of feedback signals during therapeutic sessions of functional biocontrol] Bogdanov OV, et al. **Fiziol Cheloveka** 1990 Jan–Feb;16(1):13–8 **(Rus)**
[Interhemispheric alpha rhythm asymmetry and the efficiency of mnemonic activity] Fedotchev AI, et al. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):3–7 **(Rus)**
[Diurnal changes in the effectiveness of mental activity of the operators during shift-type work] Bobko NA. **Fiziol Zh** 1989 Nov–Dec;35(6):83–7 (Eng. Abstr.) **(Rus)**
[Effect of aminazine, caffeine and the intensity of mental stress on psychophysiological functions and work effectiveness of humans] Navakatikian AO, et al. **Fiziol Zh** 1989 Nov–Dec;35(6):79–83 (Eng. Abstr.) **(Rus)**
[The effect of stimulus velocity on inhibition efficiency in the responses of the retinal ganglion cells in the frog] Khabibullin RD, et al. **Fiziol Zh SSSR** 1989 Jul; 75(7):904–10 (Eng. Abstr.) **(Rus)**
[Work hygiene and physiology in highly mechanized faces of modern coal mines of the Karaganda region] Li VA. **Gig Tr Prof Zabol** 1990;(2):18–21 (Eng. Abstr.) **(Rus)**
[Analysis of methods of presenting information to the operator in the process of control] Iablonko IuP, et al. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):83–5 **(Rus)**
[Work capacity and space-time organization of cerebral biopotentials in operators against a background of rhythmic light interference] Petrenko ET. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):23–6 (Eng. Abstr.) **(Rus)**
[The nature of the dependence of the rate of development on temperature determines the greatest efficiency of metabolism at optimal temperatures] Neifakh AA. **Ontogenez** 1989 Nov–Dec;20(6):658–66 (10 ref.) (Eng. Abstr.) **(Rus)**
[Enhanced work efficiency in agricultural workers with surgically treated pulmonary tuberculosis] Zyskin LIu, et al. **Probl Tuberk** 1989;(9):7–10 (Eng. Abstr.) **(Rus)**
[Work capacity of patients with neurasthenia] Zi'nkovskiĭ AK. **Zh Nevropatol Psikhiatr** 1989;89(11):75–8 (Eng. Abstr.) **(Rus)**
[Long-term changes in synaptic efficiency and cellular excitability during learning] Kozhedub RG. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug;39(4):675–81 (Eng. Abstr.) **(Rus)**
[The effect of photostimulation with various colors on the working electroencephalogram and human motor efficiency] Petrenko ET, et al. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug;39(4):746–8 **(Rus)**

EFFORT see **EXERTION**

EFFORT SYNDROME see **NEUROCIRCULATORY ASTHENIA**

EGF-URO RECEPTORS see **RECEPTORS, EPIDERMAL GROWTH FACTOR-UROGASTRONE**

EGG see **OVUM**

EGG PROTEINS

Structure of the oligosaccharide of hen phosvitin as determined by two-dimensional 1H NMR of the intact glycoprotein. Brockbank RL, et al. **Biochemistry** 1990 Jun 12;29(23):5574–83
Assignment of the 13C-NMR spectra of virgin and reactive-site modified turkey ovomucoid third domain. Robertson AD, et al. **Biopolymers** 1990 Feb 5;29(2):461–7
Carbohydrate structures of quail ovomucoid. Characterization of degraded oligosaccharides produced during alkaline hydrolysis of the asparaginyl-N-acetylglucosamine linkage. Alonso JM, et al. **Carbohydr Res** 1990 Feb 25;196:198–205
[Structure of carbohydrate chains of the riboflavin-binding glycoprotein of chicken egg protein. II. 1H-NMR (500 MHz) spectroscopy of the major neutral oligosaccharides] Piskarev VE, et al. **Bioorg Khim** 1989 Nov;15(11):1546–54 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Reduction of B16 melanoma metastases by oral administration of egg-white lysozyme. Sava G. **Cancer Chemother Pharmacol** 1989;25(3):221–2

ADVERSE EFFECTS

Occupational asthma in the egg processing industry [editorial; comment] Reed CE. **Chest** 1990 Aug;98(2):261–2 Comment on: Chest 1990 Aug;98(2):398–404.
Evaluation of occupational asthma from airborne egg protein exposure in multiple settings [see comments] Smith AB, et al. **Chest** 1990 Aug;98(2):398–404 Comment in: Chest 1990 Aug;98(2):261–2.

ANALYSIS

Affinity chromatographic identification of vitamin B12-binding proteins in egg white. Zak Z, et al. **Ann Nutr Metab** 1989;33(6):341–6
Immunocytochemical evidence for centrosomal phosphoproteins in mitotic sea urchin eggs. Kuriyama R, et al. **Cell Struct Funct** 1990 Feb;15(1):13–20
The "lecithotrophic" sea urchin Heliocidaris erythrogramma lacks typical yolk platelets and yolk glycoproteins. Scott LB, et al. **Dev Biol** 1990 Mar;138(1):188–93
Further fractionation of the glycoprotein families of porcine zona pellucida by anion-exchange HPLC and some characterization of the separated fractions. Nakano M, et al. **J Biochem (Tokyo)** 1990 Jan;107(1):144–50

BIOSYNTHESIS

Protein synthesis and the cell cycle: centrosome reproduction in sea urchin eggs is not under translational control. Sluder G, et al. **J Cell Biol** 1990 Jun;110(6):2025–32
Qualitative changes in protein synthesis associated with polyspermic fertilization of human eggs. Dionne P, et al. **Mol Reprod Dev** 1989;1(4):249–53

GENETICS

Genetic variants of phosvitin in egg yolk of the Japanese quail, Coturnix coturnix japonica. Tanabe H, et al. **Anim Genet** 1989;20(3):287–94
DNA regions that regulate the ovarian transcriptional specificity of Drosophila yolk protein genes. Logan SK, et al. **Genes Dev** 1989 Sep;3(9):1453–61
Ovarian follicle cell enhancers from the Drosophila yolk protein genes: different segments of one enhancer have different cell-type specificities that interact to give normal expression. Logan SK, et al. **Genes Dev** 1990 Apr; 4(4):613–23
Evolution of the autosomal chorion cluster in Drosophila. II. Chorion gene expression and sequence comparisons of the s16 and s19 genes in evolutionarily distant species. Fenerjian MG, et al. **J Mol Evol** 1989 Aug;29(2):108–25
Identification, expression and in situ hybridization of an eggshell protein gene from Fasciola hepatica. Zurita M, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):11–7
Tissue-specific expression of silkmoth chorion genes in vivo using Bombyx mori nuclear polyhedrosis virus as a transducing vector. Iatrou K, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3650–4
Recombinant baculoviruses as vectors for identifying proteins encoded by intron-containing members of complex multigene families. Iatrou K, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9129–33
The evolution of egg yolk proteins. Byrne BM, et al. **Prog Biophys Mol Biol** 1989;53(1):33–69 (200 ref.)
The yolk proteins and their genes in Drosophila. Bownes M. **Prog Clin Biol Res** 1990;342:336–42 (37 ref.)

IMMUNOLOGY

Administration of egg-derived vaccines in patients with history of egg sensitivity. Kletz MR, et al. **Ann Allergy** 1990 Jun;64(6):527–9
Characterization of four major allergens of hen egg-white by IEF/SDS-PAGE combined with electrophoretic transfer and IgE-immunoautoradiography. Holen E, et al. **Int Arch Allergy Appl Immunol** 1990;91(2):136–41
Dendritic cells pulsed with protein antigens in vitro can prime antigen-specific, MHC-restricted T cells in situ. Inaba K, et al. **J Exp Med** 1990 Aug 1;172(2):631–40
Structural requirements for the interaction between peptide antigens and I-Ed molecules. Sette A, et al. **J Immunol** 1989 Nov 15;143(10):3289–94
Differentiation of Anopheles gambiae and An. arabiensis (Diptera: Culicidae) by ELISA using immunoaffinity-purified antibodies to vitellogenin. Ma M, et al. **J Med Entomol** 1990 Jul;27(4):564–9

ISOLATION & PURIFICATION

The major structural proteins of cod (Gadus morhua) eggshells and protein crosslinking during teleost egg hardening. Oppen-Berntsen DO, et al. **Dev Biol** 1990 Feb; 137(2):258–65
Isolation of IgY from the yolks of eggs by a chloroform polyethylene glycol procedure. Polson A. **Immunol Invest** 1990 Jun;19(3):253–8
Two distinct yolk lipoprotein complexes from Caenorhabditis elegans. Sharrock WJ, et al. **J Biol Chem** 1990 Aug 25; 265(24):14422–31
Identification of extracellular proteins in the rat cumulus oophorus. Virji N, et al. **Mol Reprod Dev** 1990 Apr; 25(4):339–44
[Separation of phosphoproteins on immobilized iron ions] Muszyńska G. **Postepy Biochem** 1989;35(3):383–93 (30 ref.) **(Pol)**

METABOLISM

Vitellogenesis in Drosophila: sequestration of a yolk polypeptide/invertase fusion protein into developing oocytes. Yan YL, et al. **Dev Biol** 1990 Aug;140(2):281–90
Binding of Cu(II), Tb(III) and Fe(III) to chicken ovotransferrin. A kinetic study. Taniguchi T, et al. **Eur Biophys J** 1990;18(1):1–8
Effects of anion binding on the conformations of the two domains of ovotransferrin. Oe H, et al. **J Biochem (Tokyo)** 1989 Nov;106(5):858–63
Conformational transitions in phosvitin with pH variation. Vibrational circular dichroism study. Yasui SC, et al. **J Biol Chem** 1990 Mar 5;265(7):3780–8
Phorbol ester treatment stimulates tyrosine phosphorylation of a sea urchin egg cortex protein. Jiang WP, et al. **J Cell Biol** 1990 Apr;110(4):1049–53
Protein phosphorylation in meiotically competent and incompetent mouse oocytes. Bornalaeger EA, et al. **Mol Reprod Dev** 1988;1(1):19–25

PHARMACOLOGY

Metabolic response to egg white and cottage cheese protein in normal subjects. Nuttall FQ, et al. **Metabolism** 1990 Jul; 39(7):749–55

PHYSIOLOGY

Loss of yolk platelets and yolk glycoproteins during larval development of the sea urchin embryo. Scott LB, et al. **Dev Biol** 1990 Feb;137(2):368–77

ULTRASTRUCTURE

The supramolecular organization of ovomucin. Biophysical and morphological studies. Rabouille C, et al.

Biochem J 1990 Mar 15;266(3):697–706

URINE

Factitious proteinuria in a young girl. Tojo A, et al. Clin Nephrol 1990 Jun;33(6):299–302

EGG PROTEINS, DIETARY

ADMINISTRATION & DOSAGE

Impaired hemostasis and platelet function in rats fed low zinc diets based on egg white protein. Emery MP, et al. J Nutr 1990 Sep;120(9):1062–7

ADVERSE EFFECTS

Measles immunization in children with clinical reactions to egg protein [see comments] Kemp A, et al. Am J Dis Child 1990 Jan;144(1):33–5 Comment in: Am J Dis Child 1990 Jan;144(1):32.

IMMUNOLOGY

Relationship between serum levels of total and milk- and egg-specific IgG4 and the expression of G2m(n) in atopic eczema patients. Shakib F, et al. Exp Clin Immunogenet 1984;1(4):185–8

Lymphocyte responses to food antigens in patients with atopic dermatitis who are sensitive to foods. Kondo N, et al. J Allergy Clin Immunol 1990 Aug;86(2):253–60

METABOLISM

Vitellogenesis in Xenopus laevis and chicken: cognate ligands and oocyte receptors. The binding site for vitellogenin is located on lipovitellin I. Stifani S, et al. J Biol Chem 1990 Jan 15;265(2):882–8

Plasma and brain ammonia and amino acids in rats measured after feeding 75% casein or 28% egg white. Semon BA, et al. J Nutr 1989 Nov;119(11):1583–92

EGG SHELL

Changes in uterine fluid composition and acid-base status during shell formation in the chicken. Arad Z, et al. Am J Physiol 1989 Oct;257(4 Pt 2):R732–7

The relationship between eggshell porosity and air space gas tensions measured before and during the parafoetal period and their effects on the hatching process in the domestic fowl. Burton FG, et al. Respir Physiol 1989 Jul;77(1):89–99

ANALYSIS

Shell gland adenosine triphosphatase in hens producing strong and weak egg shells. Castaldo DJ, et al. Br Poult Sci 1990 Mar;31(1):225–9

Modelling the relationships of egg weight, specific gravity, shell calcium and shell thickness. Sooncharenying S, et al. Br Poult Sci 1989 Sep;30(3):623–31

Geographical distribution of contaminants and productivity measures of herring gulls in the Great Lakes: Lake Erie and connecting channels 1978/79. Weseloh DV, et al. Sci Total Environ 1990 Feb;91:141–59

DRUG EFFECTS

Effect of 1 alpha,25-dihydroxycholecalciferol on egg shell quality and egg production. Tsang CP, et al. Br Poult Sci 1990 Jun;31(2):241–7

Egg shell quality responses of pullets given saline drinking water at different ages. Yoselewitz I, et al. Br Poult Sci 1989 Sep;30(3):715–8

METABOLISM

Characterization of shell gland lipids from chickens (Gallus domesticus) producing strong or weak egg shells. Castaldo DJ, et al. Comp Biochem Physiol [B] 1989;94(3):521–4

A preliminary study of the translocation of aldicarb across the duck eggshell. Chambers PL, et al. Ecotoxicol Environ Safety 1989 Dec;18(3):296–304

Differential regulation of calbindin-D28K mRNA in the intestine and eggshell gland of the laying hen. Bar A, et al. J Mol Endocrinol 1990 Apr;4(2):93–9

MICROBIOLOGY

Salmonella typhimurium penetration through the eggshell of hatching eggs. Padron M. Avian Dis 1990 Apr–Jun; 34(2):463–5

PHYSIOLOGY

Changes in eggshell water vapour conductance during shell formation in the chicken. Arad Z. Respir Physiol 1989 Nov; 78(2):197–206

ULTRASTRUCTURE

Calcium reserve assembly: a basic structural unit of the calcium reserve system of the hen egg shell [published erratum appears in Poult Sci 1989 Dec;68(12):1738] Dieckert JW, et al. Poult Sci 1989 Nov;68(11):1569–84

EGG SHELL PROTEINS see EGG PROTEINS

EGG WHITE

see related OVALBUMIN

Intramolecular electron transfer in proteins. Radiolysis study of the reductive activation of daunorubicin complexed in egg white apo-riboflavin binding protein. Houée-Levin C, et al. Biochemistry 1989 Dec 12;28(25):9848–54

The use of hens' egg white as a substitute for human cervical mucus in assessing human infertility. Eggert-Kruse W, et al. Int J Androl 1990 Aug;13(4):258–66

Plasma and brain ammonia and amino acids in rats measured after feeding 75% casein or 28% egg white. Semon BA, et al. J Nutr 1989 Nov;119(11):1583–92

Antineoplastic action of egg-white lysozyme on the growth of MCa mammary carcinoma and TLX5 lymphoma in the CBA mouse. Sava G, et al. Methods Find Exp Clin Pharmacol 1989 Nov;11(11):683–9

[The study of allergic children under one-year old. The degree of influence on allergic factors to atopic dermatitis by multiple factor analysis] Koya N. Arerugi 1990 Apr; 39(4):391–401 (Eng. Abstr.) (Jpn)

[The study of allergic children under one-year old. The measurement of IgE and IgG4 antibody titers to egg white, milk and soybean] Koya N. Arerugi 1990 Mar;39(3):330–8 (Eng. Abstr.) (Jpn)

[The correlation of serum IgE and IgE-RAST of mite, egg white, milk, soybean, rice and wheat: a study by analysis of regression curves] Fujisawa S, et al. Nippon Hifuka Gakkai Zasshi 1989 Nov;99(12):1235–41 (Eng. Abstr.) (Jpn)

[Structure of carbohydrate chains of the riboflavin-binding glycoprotein of chicken egg protein. II. 1H-NMR (500 MHz) spectroscopy of the major neutral oligosaccharides] Piskarev VE, et al. Bioorg Khim 1989 Nov;15(11):1546–54 (Eng. Abstr.) (Rus)

[Treatment of erosive gastritis by local administration of therapeutic agents] Ratner MV. Klin Med (Mosk) 1989 Oct; 67(10):73–4 (Rus)

ANALYSIS

A novel preparative method for the isolation of avidin and riboflavin-binding glycoprotein from chicken egg-white by the use of high-performance liquid chromatography. Piskarev VE, et al. Biochem J 1990 Jan 1;265(1):301–4

Purification and properties of glutamyl aminopeptidase from chicken egg-white. Petrović S, et al. Comp Biochem Physiol [B] 1990;95(3):589–95

Characterization of four major allergens of hen egg-white by IEF/SDS-PAGE combined with electrophoretic transfer and IgE-immunoautoradiography. Holen E, et al. Int Arch Allergy Appl Immunol 1990;91(2):136–41

Cardioteratogenic dose of ethanol in the chick embryo results in egg white concentrations comparable to human blood alcohol levels. Bruyere HJ Jr, et al. J Appl Toxicol 1990 Feb;10(1):69–71

EGG WHITE PROTEINS see EGG PROTEINS

EGG WHITE PROTEINS, DIETARY see EGG PROTEINS, DIETARY

EGG YOLK

Genetic variants of phosvitin in egg yolk of the Japanese quail, Coturnix coturnix japonica. Tanabe H, et al. Anim Genet 1989;20(3):287–94

Transfer of cobalamin from the cobalamin-binding protein of egg yolk to R binder of human saliva and gastric juice. Del Corral A, et al. Gastroenterology 1990 Jun;98(6):1460–6

Effect of egg yolk medium on the acrosome reaction of human spermatozoa. Bielfeld P, et al. J Androl 1990 May–Jun;11(3):260–9

Sperm motility after passage through the hen's egg yolk medium. Chinsomboon S, et al. J Med Assoc Thai 1990 Feb;73 Suppl 1:100–3

Sperm morphology after hen's egg yolk filtration. Chinsomboon S, et al. J Med Assoc Thai 1990 Feb;73 Suppl 1:104–6

Euploid chicken embryos from eggs containing one, two or several yolks. Lee KH, et al. J Reprod Fertil 1990 May; 89(1):85–90

Prevention of human rotavirus infection with chicken egg yolk immunoglobulins containing rotavirus antibody in cat. Hiraga C, et al. Kansenshogaku Zasshi 1990 Jan; 64(1):118–23

Production of antibodies to canine distemper virus in chicken eggs for immunohistochemistry. Schmidt P, et al. Zentralbl Veterinarmed [B] 1989 Nov;36(9):661–8

[The chicken egg as a supply of polyclonal antibodies] Gassmann M, et al. Schweiz Arch Tierheilkd 1990; 132(6):289–94 (29 ref.) (Eng. Abstr.) (Ger)

[A simple method for the isolation of immunoglobulin (Y) from the eggs of immunized hens] Wallmann J, et al. Zentralbl Veterinarmed [B] 1990 Jun;37(4):317–20 (Eng. Abstr.) (Ger)

ANALYSIS

Chromatographic determination of dicofol and metabolites in egg yolks. Mourer CR, et al. Arch Environ Contam Toxicol 1990 Jan–Feb;19(1):154–6

Effect of vitamin C administration on serum and egg-yolk cholesterol level of the chicken. al-Janabi AS, et al. Aust J Biol Sci 1988;41(4):403–7

The relationship of egg yolk and serum antibody. I. Infectious bursal disease virus. Brown J, et al. Avian Dis 1989 Oct–Dec;33(4):654–6

Comparison of egg-yolk and serum antibody titers to four avian viruses by enzyme-linked immunosorbent assay using paired field samples. Silim A, et al. Avian Dis 1989 Oct–Dec;33(4):643–8

Deformation and instability in membrane structure of phospholipid vesicles caused by osmophobic association: mechanical stress model for the mechanism of poly(ethylene glycol)-induced membrane fusion. Yamazaki M, et al. Biochemistry 1990 Feb 6;29(5):1309–14

Purification and partial characterization of a cobalamin-binding protein from chicken egg yolk. Zaman K, et al. Biochim Biophys Acta 1989 Sep 14;998(1):102–4

Lipid changes in the residual yolk and liver of the chick immediately after hatching. Noble RC, et al. Biol Neonate 1989;56(4):228–36

Accumulation of zinc in egg yolk, ovarian follicles and organs after forced resting by high dietary zinc. Verheyen G, et al. Br Poult Sci 1990 Mar;31(1):147–54

Alpha-tocopherol-induced hexagonal HII phase formation in egg yolk phosphatidylcholine membranes. Nakajima K, et al. Chem Pharm Bull (Tokyo) 1990 Jan;38(1):1–4

Solubilization of multilamellar liposomes of egg yolk lecithin by the bile salt sodiumtaurodeoxycholate and the effect of cholesterol—a rapid-ultrafiltration study. Müller K, et al. Chem Phys Lipids 1990 Jan;52(2):111–27

Influence of the sex-linked dwarfing gene (dw) on the lipid composition of plasma, egg yolk and abdominal fat pad in White Leghorn laying hens: effect of dietary fat. Burghelle-Mayeur C, et al. J Nutr 1989 Oct;119(10):1361–8 (42 ref.)

Occurrence of 2-amino-3-methylimidazo[4,5-f]quinoline (IQ), 2-amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole (Glu-P-1) and other heterocyclic amine mutagens in oil of charred egg yolk (ranyu). Kato T, et al. Mutat Res 1990 Apr;240(4):259–66

The effect of adding cholesterol to laying hen diets as powder or predissolved in fat. Berrio LF, et al. Poult Sci 1990 Jun; 69(6):972–6

Egg yolk antibody detection in identification of salmonella infected poultry. Dadrast H, et al. Vet Rec 1990 Mar 3; 126(9):219

Detection of salmonella [letter; comment] [see comments] Nicholas RA, et al. Vet Rec 1990 Feb 10;126(6):147 Comment on: Vet Rec 1989 Dec 2;125(23):586. Comment in: Vet Rec 1990 Feb 24;126(8):201.

[Blood group hemagglutinins in hens' eggs. 2. Comparison of immunohematological properties of serum and egg yolk hemagglutinins of hens immunized with OSe saliva] Saga K, et al. Nippon Hoigaku Zasshi 1990 Apr;44(2):168–73 (Eng. Abstr.) (Jpn)

EGG YOLK PROTEINS see EGG PROTEINS

EGG YOLK PROTEINS, DIETARY see EGG PROTEINS, DIETARY

EGGS

Absorption of egg antigens by the gut observed by oral Prausnitz-Küstner (Walzer) reaction in atopic dermatitis. Aoki T, et al. Acta Derm Venereol Suppl (Stockh) 1989; 144:100–4

An overview of Australia's poultry industry in 1989. Bagust TJ. Aust Vet J 1989 Dec;66(12):416–8 (5 ref.)

Decreased egg production in commercial laying hens fed zearalenone- and deoxynivalenol-contaminated grain sorghum. Branton SL, et al. Avian Dis 1989 Oct–Dec; 33(4):804–8

Production of Salmonella enteritidis-contaminated eggs by experimentally infected hens. Gast RK, et al. Avian Dis 1990 Apr–Jun;34(2):438–46

Effect of the pre-incubation storage period of hatching eggs on the hatchability and post-hatching growth of local chickens under tropical conditions. Abdou FH, et al. Beitr Trop Landwirtsch Veterinarmed 1990;28(3):337–43

Eyelid abscess in an egg nog drinker. Markus HS, et al. BMJ 1989 Dec 23–30;299(6715):1570–1

Effects of dietary cottonseed meal, with and without iron treatment, on laying hens. Panigrahi S, et al. Br Poult Sci 1989 Sep;30(3):641–51

Modelling the relationships of egg weight, specific gravity, shell calcium and shell thickness. Sooncharenying S, et al. Br Poult Sci 1989 Sep;30(3):623–31

Salmonella enteritidis phage type 4 from the contents of intact eggs: a study involving naturally infected hens. Humphrey TJ, et al. Epidemiol Infect 1989 Dec;103(3):415–23

A comparative study of the heat resistance of salmonellas in homogenized whole egg, egg yolk or albumen. Humphrey TJ, et al. Epidemiol Infect 1990 Apr; 104(2):237–41

A large outbreak of Salmonella enteritidis phage type 4 associated with eggs from overseas. Stevens A, et al. Epidemiol Infect 1989 Dec;103(3):425–33

The role of hens' eggs in outbreaks of salmonellosis in north Spain. Perales I, et al. Int J Food Microbiol 1989 May; 8(2):175–80

FDA urges institutions to use pasteurized eggs [news] **J Am Vet Med Assoc** 1989 Oct 1;195(7):877

A nosocomial outbreak of Salmonella enteritidis infection due to the consumption of raw eggs. Telzak EE, et al. **N Engl J Med** 1990 Aug 9;323(6):394–7

Effect of a quaternary ammonium sanitizer for hatching eggs on their contamination, permeability, water loss, and hatchability. Brake J, et al. **Poult Sci** 1990 Apr;69(4):517–25

Effect on hatchability of tilting instead of turning chicken eggs during incubation. Buhr RJ. **Poult Sci** 1989 Dec; 68(12):1603–11

Effect of hatching egg sanitizers on embryonic survival and hatchability of turkey eggs from different lines and on egg shell bacterial populations. Sacco RE, et al. **Poult Sci** 1989 Sep;68(9):1179–84

Science and the art of incubation. Tullett SG. **Poult Sci** 1990 Jan;69(1):1–15 (79 ref.)

Effect of fluorescent light on hatchability of commercial broiler parent stock eggs and on body weight of chickens hatched under large-scale commercial conditions. Zakaria AH. **Poult Sci** 1989 Nov;68(11):1585–7

Unscrambling an egg [letter] **Science** 1990 Jul 20; 249(4966):228

MAFF Salmonella policy attacked [news] **Vet Rec** 1989 Nov 4;125(19):468

Growth of salmonellas in intact shell eggs: influence of storage temperature. Humphrey TJ. **Vet Rec** 1990 Mar 24; 126(12):292

Removal of an intra-abdominal egg from a chicken. Shield CF. **Vet Rec** 1990 Jun 23;126(25):624

Chicken egg antibodies for prophylaxis and therapy of infectious intestinal diseases. III. In vivo tenacity test in piglets with artificial jejunal fistula. Wiedemann V, et al. **Zentralbl Veterinarmed [B]** 1990 May;37(3):163–72

[The use of ionizing radiation for the decontamination of salmonella-containing slaughtered broiler chickens and powdered eggs] Köhler B, et al. **Z Gesamte Hyg** 1989 Nov; 35(11):665–8 (Eng. Abstr.) **(Ger)**

[Principles for cleaning and disinfection in fresh egg production for the prevention and control of salmonellosis] Trenner P, et al. **Z Gesamte Hyg** 1989 Nov;35(11):671–2 (Eng. Abstr.) **(Ger)**

[In vitro detection of ovalbumin-specific IgA producing cells from lymphocytes of patients with hen-egg allergy] Yamaguchi K, et al. **Arerugi** 1989 Oct;38(10):1136–41 (Eng. Abstr.) **(Jpn)**

[Extraintestinal isolation of Salmonella in chickens: epidemiologic study of 3 salmonellosis outbreaks after ingestion of raw eggs (published erratum appears in Microbiologia 1988 Feb;4(1):65)] Sesma B, et al. **Microbiologia** 1987 Oct;3(3):209–12 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Skin testing prior to measles vaccination for egg-sensitive patients [editorial; comment] Stiehm ER. **Am J Dis Child** 1990 Jan;144(1):32 Comment on: Am J Dis Child 1990 Jan;144(1):33–5.

Ovalbumin-specific induction of IL2 responsiveness in lymphocytes from patients with hen egg allergy and its regulation by the culture supernatant of normal lymphocytes. Noma T, et al. **Ann Allergy** 1990 Jan; 64(1):33–41

Case-control study of infections with Salmonella enteritidis phage type 4 in England [see comments] Cowden JM, et al. **BMJ** 1989 Sep 23;299(6702):771–3 Comment in: BMJ 1989 Nov 11;299(6709):1223.

Food safety awareness [letter; comment] Elliman A, et al. **BMJ** 1989 Nov 11;299(6709):1223 Comment on: BMJ 1989 Sep 23;299(6702):771–3.

Occupational asthma in the egg processing industry [editorial; comment] Reed CE. **Chest** 1990 Aug;98(2):261–2 Comment on: Chest 1990 Aug;98(2):398–404.

Evaluation of occupational asthma from airborne egg protein exposure in multiple settings [see comments] Smith AB, et al. **Chest** 1990 Aug;98(2):398–404 Comment in: Chest 1990 Aug;98(2):261–2.

Salmonella hazard increases in Europe [news] **J Am Vet Med Assoc** 1990 Mar 15;196(6):850

Administration of measles, mumps, and rubella virus vaccine (live) to egg-allergic children. Lavi S, et al. **JAMA** 1990 Jan 12;263(2):269–71

Safety of measles immunisation in children with IgE-mediated egg allergy [letter] Bruno G, et al. **Lancet** 1990 Mar 24;335(8691):739

Food safety. Egg-stuffed sea trout and salmonellae. **Wkly Epidemiol Rec** 1990 Mar 30;65(13):97–8 **(Eng, Fre)**

[Salmonella enteritidis and the chicken egg; a 'new' cause of salmonellosis in man] Huisman J. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2320–2 **(Dut)**

ANALYSIS

A simplified method for the determination of volatiles in eggs using headspace analysis with a photoionzation detector. Stein VB, et al. **Arch Environ Contam Toxicol** 1990 Jul-Aug;19(4):593–6

Study on effects of feeding laying hens on separate mycotoxins (aflatoxins, patulin, or citrinin)-contaminated diets on the egg quality and tissue constituents. Abdelhamid AM, et al. **Arch Tierernahr** 1990 Apr;40(4):305–16

Interaction of apolipoprotein A-II with recombinant HDL containing egg phosphatidylcholine, unesterified cholesterol and apolipoprotein A-I. Rye KA. **Biochim Biophys Acta** 1990 Feb 6;1042(2):227–36

Total PCBs and PCB congeners in Spanish imperial eagle eggs. Hernández LM, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):725–32

Metal biomonitoring in bird eggs: a critical experiment. Leonzio C, et al. **Bull Environ Contam Toxicol** 1989 Sep; 43(3):402–6

Penetration studies and residue determinations of 2,4-dichlorophenoxyacetic acid butyl ester in fertile hen eggs and chicks hatched from treated eggs. Castro de Cantarini SM, et al. **Drug Chem Toxicol** 1989 Jun; 12(2):137–46

Cholesterol-saturated fat index: ESHA software has it, new egg data changes it [letter; comment] **J Am Diet Assoc** 1990 Apr;90(4):506, 512 Comment on: J Am Diet Assoc 1989 Jun;89(6):807–16.

Gas chromatographic determination of cholesterol in egg products. Beyer JD, et al. **J Assoc Off Anal Chem** 1989 Sep-Oct;72(5):746–8

Enzymatic hydrolysis of biological and environmental samples as pretreatment for analysis. Forsyth DS, et al. **J Assoc Off Anal Chem** 1989 Nov-Dec;72(6):997–1001

Monoclonal antibody-mediated clean-up procedure for the high-performance liquid chromatographic analysis of chloramphenicol in milk and eggs. van de Water C, et al. **J Chromatogr** 1989 Sep 8;478(1):205–15

High-performance liquid chromatographic screening method for low levels of nicarbazin in eggs with off-line cartridge sample clean-up. Vertommen MH, et al. **J Chromatogr** 1989 Nov 3;481:452–7

Carotenoids and retinoids in Finnish foods: dairy products and eggs. Ollilainen V, et al. **J Dairy Sci** 1989 Sep; 72(9):2257–65

n-3 fatty acids in eggs from range-fed Greek chickens [letter] Simopoulos AP, et al. **N Engl J Med** 1989 Nov 16; 321(20):1412

The effect of feeding lovastatin and colestipol on production and cholesterol content of eggs. Luhman CM, et al. **Poult Sci** 1990 May;69(5):852–5

Accumulation and distribution of ions of group-IIIA elements in the tissues and eggs of the Japanese quail. Robinson GA, et al. **Poult Sci** 1990 Feb;69(2):300–6

Contamination of eggs, poultry liver and bovine liver and kidney by chlorinated pesticides in Morocco. Kessabi M, et al. **Sci Total Environ** 1990 Jan;90:283–7

An automated HPLC determination of meticlorpindol in eggs with UV absorbance detection, using on-line dialysis and pre-concentration as sample clean-up; occurrence in and carry over to eggs. Mattern EM, et al. **Z Lebensm Unters Forsch** 1990 Jan;190(1):25–30

[The nutritive value of the caviar of whitefish from Siberian reservoirs] Sedova LS, et al. **Vopr Pitan** 1990 May-Jun; (3):66–7 **(Rus)**

ECONOMICS

Salmonella: time for a change [letter] Horrox NE. **Vet Rec** 1990 Feb 17;126(7):173

POISONING

Salmonellas and eggs. Cowden JM, et al. **Arch Dis Child** 1989 Oct;64(10):1419–20 (7 ref.)

Update: Salmonella enteritidis infections and grade A shell eggs—United States, 1989. **MMWR** 1990 Jan 5; 38(51-52):877–80

[A study on phage analysis of two episodes of food poisoning caused by the same serotype of enteroinvasive Escherichia coli] Yang ZS. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):299–301 (Eng. Abstr.) **(Chi)**

STANDARDS

Review of some developments in animal housing systems—pigs and poultry. Armstrong B, et al. **Br Vet J** 1989 Sep-Oct;145(5):426–35 (7 ref.)

Effectiveness of ascorbic acid and chromium in counteracting the negative effects of dietary vanadium on interior egg quality. Benabdeljelil K, et al. **Poult Sci** 1990 May; 69(5):781–6

Production and egg-quality responses of White Leghorn layers to anticoccidial agents. Jones JE, et al. **Poult Sci** 1990 Mar;69(3):378–87

Commons report wants 'safe' eggs identified [news] **Vet Rec** 1990 Jan 20;126(3):49

EGO

Maintenance of grip on life and goals of life: a valuable criterion for evaluating outcome in schizophrenia. Salokangas RK, et al. **Acta Psychiatr Scand** 1989 Aug; 80(2):187–93

Ego functioning predicts first-year status in adults with anorexia nervosa and bulimia nervosa. Sohlberg S, et al. **Acta Psychiatr Scand** 1989 Oct;80(4):325–33

The developmental function of acting out in three adolescents. Kirshner LA. **Adolesc Psychiatry** 1989; 16:337–49

Parenthood experience and the adolescent's transition to young adulthood: self psychological perspectives. Weissman SH, et al. **Adolesc Psychiatry** 1989;16:155–74

Suicidal tendencies and ego identity in adolescence. Bar-Joseph H, et al. **Adolescence** 1990 Spring;25(97):215–23

A cognitive/affective empathy training program as a function of ego development in aggressive adolescent females. Pecukonis EV. **Adolescence** 1990 Spring;25(97):59–76

Children's understanding of mental phenomena. Estes D, et al. **Adv Child Dev Behav** 1989;22:41–87

Neurolinguistic programming as an adjunct to other psychotherapeutic/hypnotherapeutic interventions. Field ES. **Am J Clin Hypn** 1990 Jan;32(3):174–82

Ego identity in mentally retarded adolescents. Levy-Shiff R, et al. **Am J Ment Retard** 1990 Mar;94(5):541–9

Developmental dimensions of DSM-III diagnoses in adolescent psychiatric patients. Noam GG, et al. **Am J Orthopsychiatry** 1990 Jul;60(3):371–8

Success of alcoholica anonymous [letter] Hoffman GK. **Am J Psychiatry** 1990 Aug;147(8):1104

Ego differentiation: Eastern and Western perspectives. Nitis T. **Am J Psychoanal** 1989 Dec;49(4):339–46

Transformations of identity: referent location, agency, and levels of integration in the progress from potential self to existential identity. von Broembsen F. **Am J Psychoanal** 1989 Dec;49(4):329–38

The evolution of the self-psychological approach to depression. Deitz J. **Am J Psychother** 1989 Oct; 43(4):494–505

Cofactors in the commission of violent crimes: a self-psychology examination. Feldmann TB, et al. **Am J Psychother** 1990 Apr;44(2):172–9

Why the self is empty. Toward a historically situated psychology. Cushman P. **Am Psychol** 1990 May; 45(5):599–611

Expectations versus reality, social support, and the well-being of medical students. Strayhorn G. **Behav Med** 1989 Fall;15(3):133–9

Small-scale deceit: deception as a marker of two-, three-, and four-year-olds' early theories of mind. Chandler M, et al. **Child Dev** 1989 Dec;60(6):1263–77

Developing theories of the mind: children's and adults' concepts of mental activities. Fabricius WV, et al. **Child Dev** 1989 Dec;60(6):1278–90

On the prognostic relevance of ego-psychopathology in schizophrenia: a 2.5-year follow-up. Hauser R, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(5):293–302

A notation on individuality, 50 years after the death of Sigmund Freud. Toward a "biological Ego"? Burgio GR, et al. **Eur J Pediatr** 1989 Oct;149(1):9–10

Reminiscence, life review, and ego integrity in nursing home residents. Taft LB, et al. **Int J Aging Hum Dev** 1990; 30(3):189–96

On satisfaction, happiness and ecstasy. Deutsch H. **Int J Psychoanal** 1989;70 (Pt 4):715–23

The search for the self. Kogan I. **Int J Psychoanal** 1989;70 (Pt 4):661–71

Adolescent identity: an appraisal of health and intervention [editorial] Archer SL. **J Adolesc** 1989 Dec;12(4):341–3

The status of identity: reflections on the need for intervention. Archer SL. **J Adolesc** 1989 Dec;12(4):345–59 (35 ref.)

The relationship of ego identity to social network structure and function in young men and women. Caldwell RA, et al. **J Adolesc** 1989 Sep;12(3):309–13

Ego structuralization in late adolescence as seen through early memories and ego identity status. Kroger J. **J Adolesc** 1990 Mar;13(1):65–77

Identity and intervention. Marcia JE. **J Adolesc** 1989 Dec; 12(4):401–10

Identity status research: implications for career counseling. Raskin PM. **J Adolesc** 1989 Dec;12(4):375–88 (51 ref.)

Teens at risk for pregnancy: the role of ego development and family processes. Romig CA, et al. **J Adolesc** 1990 Jun;13(2):195–9

Ethnic differences in adolescents' identity status and associated behavior problems. Rotheram-Borus MJ. **J Adolesc** 1989 Dec;12(4):361–74

Curricula interventions for identity change: substantive and ethical considerations. Waterman AS. **J Adolesc** 1989 Dec; 12(4):389–400 (22 ref.)

Psychoanalytic theory: 1905 or 1990? [letter] Shapiro T. **J Am Acad Child Adolesc Psychiatry** 1990 Jul;29(4):667

Compassion and altruism in psychoanalytic theory: an evolutionary analysis of self psychology. Kriegman D. **J Am Acad Psychoanal** 1990 Summer;18(2):342–67

The evolutionary functions of repression and the ego defenses. Nesse RM. **J Am Acad Psychoanal** 1990 Summer; 18(2):260–85

The dual meaning of repression and the adaptive design of the human psyche. Slavin MO. **J Am Acad Psychoanal** 1990 Summer;18(2):307–41 (80 ref.)

Ego analysis and the relativity of defense: technical implications of the structural theory. Apfelbaum B, et al. **J Am Psychoanal Assoc** 1989;37(4):1071–96 (20 ref.)

Masochism, the ego ideal, and the psychology of women. Blum HP. **J Am Psychoanal Assoc** 1976;24(5):157–91

The development of the ego: biological and environmental specificity in the psychopathological developmental process and the selection and construction of ego defenses. Greenspan SI. **J Am Psychoanal Assoc** 1989;37(3):605–38

Unconscious fantasy: developmental and self-psychological considerations. Shane M, et al. **J Am Psychoanal Assoc** 1990;38(1):75–92

Measurement and modification of delusional beliefs. Chadwick PD, et al. **J Consult Clin Psychol** 1990 Apr;

58(2):225–32
Are dolls real? Developmental changes in the child's definition of reality. Prawat RS, et al. **J Genet Psychol** 1989 Dec;150(4):359–74
Positive ego and coping functions in chronic pain and depressed patients. Colenda CC 3d, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):48–52
The distant self: unexpressed homosexuality in Andre Gide's L'Immoraliste. Mengay DH. **J Homosex** 1990;19(1):1–22
Delusional misidentification involving the self. Kamanitz JR, et al. **J Nerv Ment Dis** 1989 Nov;177(11):658–8 (37 ref.)
Lycanthropy and self-identification. Kulick AR, et al. **J Nerv Ment Dis** 1990 Feb;178(2):134–7 (14 ref.)
Rorschach Egocentricity Index and self-concept in children and adolescents. Belter RW, et al. **J Pers Assess** 1989 Winter;53(4):783–9
A personality measure of Erikson's life stages: the Inventory of Psychosocial Balance. Domino G, et al. **J Pers Assess** 1990 Summer;54(3–4):576–88
The effect of sensory deprivation and ego strength on a measure of autistic thinking. Harrison RH, et al. **J Pers Assess** 1990 Summer;54(3–4):694–703
Self-esteem and perceptions of conveyed impressions: is negative affectivity associated with greater realism? Campbell JD, et al. **J Pers Soc Psychol** 1990 Jan; 58(1):122–33
The role of ego-control, ego-resiliency, and IQ in delay of gratification in adolescence. Funder DC, et al. **J Pers Soc Psychol** 1989 Dec;57(6):1041–50
Children's judgments of televised events: the real versus pretend distinction. Downs AC. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):779–82
The Last and Weiss Rorschach Sum E in a normal sample. Greenwald DF. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):889–90
Relations among nightmare frequency and ego strength, death anxiety, and sex of college students. Levin R. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1107–13
Self psychology and the narcissistic personality disorders. Goldberg A. **Psychiatr Clin North Am** 1989 Sep;12(3):731–9
An ego psychology object relations theory of the structure and treatment of pathologic narcissism. An overview. Kernberg OF. **Psychiatr Clin North Am** 1989 Sep; 12(3):723–9 (7 ref.)
Boundaries of dreams, boundaries of dreamers: thin and thick boundaries as a new personality measure. Hartmann E. **Psychiatr J Univ Ott** 1989 Nov;14(4):557–60
Ego development and treatment requests. Dill DL, et al. **Psychiatry** 1990 Feb;53(1):85–91
The anatomy of mental unity and volition: an alternate view [comment] Stillman RC, et al. **Psychiatry** 1989 Nov; 52(4):410–3; discussion 414–5 Comment on: Psychiatry 1989 Nov;52(4):404–9.
The anatomy of the ego [see comments] Tinnin L. **Psychiatry** 1989 Nov;52(4):404–9 (15 ref.) Comment in: Psychiatry 1989 Nov;52(4):410–3; discussion 414–5.
Hartmann on adaptation: an incomparable or incomprehensible legacy? Shaw RR. **Psychoanal Q** 1989 Oct;58(4):592–611
A psychoanalyst takes the Turing Test. Alper G. **Psychoanal Rev** 1990 Spring;77(1):59–68
Paranoia and narcissism in psychoanalytic theory. Contributions of self psychology to the theory and therapy of the paranoid disorders. Aronson TA. **Psychoanal Rev** 1989 Fall;76(3):329–51 (44 ref.)
The development of identification in Freudian theory. Halperin S, et al. **Psychoanal Rev** 1989 Fall;76(3):353–74 (33 ref.)
New lamps for old? Reflections from and on Phyllis Greenacre's "Childhood of the Artist". Spitz EH. **Psychoanal Rev** 1989 Winter;76(4):557–66
The reality in fantasy-making. Cohen S. **Psychoanal Study Child** 1989;44:57–72
Music of the self and others. Longitudinal observations on musical giftedness. Pruett KD. **Psychoanal Study Child** 1989;44:87–100
The psychoanalyst's use of tact. Sledge W. **Psychoanal Study Child** 1989;44:137–47
Age differences in source forgetting: effects on reality monitoring and on eyewitness testimony. Cohen G, et al. **Psychol Aging** 1989 Mar;4(1):10–7
Age, ego level, and the life-span development of coping and defense processes. Labouvie-Vief G, et al. **Psychol Aging** 1987 Sep;2(3):286–93
Judgments of origin and generation effects: comparisons between young and elderly adults. Rabinowitz JC. **Psychol Aging** 1989 Sep;4(3):259–68
Reexamination of the relationship between birth order and obsessive-compulsive disorder. Pollard CA, et al. **Psychopathology** 1990;23(1):52–6
Self-rated defense style, life stress, and health status: an empirical assessment. Flannery RB Jr, et al. **Psychosomatics** 1990 Summer;31(3):313–20
Our varying ability to predict the outcomes of psychotherapy. Sandell R. **Psychother Psychosom** 1988; 50(3):134–40
[Psychological technics and meditation—reflections on some aspects of a borderline treatment area] Körmendy E. **Off Gesundheitswes** 1990 Jan;52(1):27–9 (Eng. Abstr.) (Ger)
[Ego identity in children and adolescents] Diepold B. **Prax Kinderpsychol Kinderpsychiatr** 1990 Jul–Aug; 39(6):214–21 (Eng. Abstr.) (Ger)
[Rapidly changing ego states in inpatient long-term therapy of psychotic adolescents] Günter M, et al. **Prax Kinderpsychol Kinderpsychiatr** 1989 Sep;38(7):250–6 (Eng. Abstr.) (Ger)
[Compulsion, ego organization and treatment procedure. On the treatment of a patient with chronic compulsive symptoms] Streeck-Fischer A. **Prax Kinderpsychol Kinderpsychiatr** 1989 Sep;38(7):236–41 (Eng. Abstr.) (Ger)
[Derealization and repetition] Dahmer H. **Psyche (Stuttg)** 1990 Feb;44(2):133–43 (Eng. Abstr.) (Ger)
[The rules of clinical understanding in classical psychoanalysis and in ego psychology] Reed GS. **Psyche (Stuttg)** 1989 Dec;43(12):1094–116 (33 ref.) (Ger)
[The concept of developmentally-induced structural ego disorders—a reference frame for working with extremely borderline patients?] Weber F. **Psychother Psychosom Med Psychol** 1989 Nov;39(11):390–6 (Eng. Abstr.) (Ger)
[Feigned experiences as the border between delusion and ego disturbances] Inoue Y. **Seishin Shinkeigaku Zasshi** 1990; 92(3):141–60 (41 ref.) (Jpn)

EGTA

Use of 1,2-bis(2-amino-5-fluorophenoxy)ethane-N,N,N',N'-tetraacetic acid (5FBAPTA) in the measurement of free intracellular calcium in the brain by 19F-nuclear magnetic resonance spectroscopy. Badar-Goffer RS, et al. **J Neurochem** 1990 Sep;55(3):878–84

PHARMACOLOGY

Alcohol-induced poikilothermia, sleep and motor impairment: actions on brain of EGTA and verapamil. Paez X, et al. **Alcohol** 1989 Nov–Dec;6(6):489–98
Decreased secretion due to a Ca2+ influx defect in frog peptic cells isolated with EGTA. Uemura N, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):G544–51
Effects of ouabain and EGTA on the inhibitory effect of Ca2+ on guinea pig stomach smooth muscle ('Ca reversal'). Karibe H, et al. **Eur J Pharmacol** 1990 Jul 3; 182(2):273–81
EGTA modulates equatorial currents in frog lenses. Walsh S, et al. **Exp Eye Res** 1989 Nov;49(5):705–15
Reversal by EGTA of the enhanced secretory responsiveness of mast cells due to treatment with ouabain. Johansen T, et al. **FEBS Lett** 1990 Mar 26;262(2):228–30
Omega-conotoxin blockade of calcium currents in cultured neonatal rat cardiomyocytes: different action on EGTA-modified calcium channels. Savtchenko AN, et al. **Gen Physiol Biophys** 1990 Apr;9(2):147–65
Functional receptors for transforming growth factor-beta are retained by biochemically differentiated C2 myocytes in growth factor-deficient medium containing EGTA but down-regulated during terminal differentiation. Hu JS, et al. **J Biol Chem** 1990 May 15;265(14):7914–9
Effects of EGTA and calmodulin, neutral thiol proteinases and protein kinase C inhibitors on loss of chicken pineal serotonin N-acetyltransferase activity. Rodriguez-Cabello JC, et al. **J Comp Physiol [B]** 1989;159(5):583–8
Decay of the slow calcium current in twitch muscle fibers of the frog is influenced by intracellular EGTA. Francini F, et al. **J Gen Physiol** 1989 Nov;94(5):953–69
Direct inhibitory action of EGTA-Ca complex on reverse-mode Na/Ca exchange in Myxicola giant axons. Sjodin RA, et al. **J Membr Biol** 1990 Apr;114(3):225–30
Discriminatory effects of forskolin and EGTA on the indirect cyclic AMP responses to histamine, noradrenaline, 5-hydroxytryptamine, and glutamate in guinea-pig cerebral cortical slices. Donaldson J, et al. **J Neurochem** 1990 May; 54(5):1484–91
Chelation of endogenous membrane calcium inhibits gamma-aminobutyric acid uptake in synaptosomes. Tapia R, et al. **J Neurosci Res** 1989 Oct;24(2):293–8
Ultrastructural changes in synapses of rat cortical neurons on their functional isolation by means of EGTA ionophoresis. Kotlyar BI, et al. **Neurosci Behav Physiol** 1990 Jan–Feb;20(1):34–6
The modulation of force in isolated rat EGTA-treated anococcygeus muscle by phosphate, cyclic AMP and noradrenaline. Crichton CA, et al. **Q J Exp Physiol** 1989 Nov;74(6):943–5
Induction of HSP27 phosphorylation and thermoresistance in Chinese hamster cells by arsenite, cycloheximide, A23187, and EGTA. Crête P, et al. **Radiat Res** 1990 Mar; 121(3):320–7

EGYPT 101 VIRUS see **WEST NILE VIRUS**

EHDP see **SODIUM ETIDRONATE**

EHLERS-DANLOS SYNDROME

Mode of delivery in Ehlers-Danlos syndrome: a reappraisal of the current approach. Blumenfeld Z, et al. **Int J Dermatol** 1989 Nov;28(9):621–3
Multiple hollow organ dysplasia in Ehlers-Danlos syndrome. Schippers E, et al. **J Pediatr Surg** 1989 Nov;24(11):1181–3
Image interpretation session. Ehlers-Danlos syndrome, type II. **Radiographics** 1990 Jan;10(1):134–5

BLOOD

Ehlers-Danlos syndrome type IV: a subset of patients distinguished by low serum levels of the amino-terminal propeptide of type III procollagen. Steinmann B, et al. **Am J Med Genet** 1989 Sep;34(1):68–71
Ehlers-Danlos syndrome, clotting disorders and muscular dystrophy. Bertin P, et al. **Ann Rheum Dis** 1989 Nov; 48(11):953–6

CLASSIFICATION

[Ehlers-Danlos syndrome: apropos of three cases] Alonso Villa MJ, et al. **An Esp Pediatr** 1990 Apr;32(4):339–43 (Eng. Abstr.) (Spa)

COMPLICATIONS

Ehlers-Danlos syndrome: report of pregnancy and delivery in a Negro. Shemwell RE, et al. **Am J Obstet Gynecol** 1970 Sep 15;108(2):321–2
Type IV Ehlers-Danlos syndrome with isolated arterial involvement. Bellenot F, et al. **Ann Vasc Surg** 1990 Jan; 4(1):15–9
Congenital dislocation of the hip in Ehlers-Danlos syndrome. Badelon O, et al. **Clin Orthop** 1990 Jun;(255):138–43
Obstetrical problems in patients with Ehlers-Danlos syndrome type IV; a case report. De Paepe A, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Nov;33(2):189–93
Spontaneous rupture of the external iliac artery in a patient with Ehlers Danlos syndrome type IV. van Selms WG, et al. **Eur J Vasc Surg** 1990 Aug;4(4):419–21
Oral manifestations of Ehlers-Danlos syndrome [letter; comment] Leung AK, et al. **J Am Dent Assoc** 1989 Dec; 119(6):696 Comment on: J Am Dent Assoc 1989 Feb;118(2):187–91.
Sporadic Ehlers-Danlos syndrome with neurologic, cardiac and dental involvement. Bhatia SJ, et al. **J Assoc Physicians India** 1990 May;38(5):361–3
Recurrent temporomandibular joint subluxation and facial ecchymosis leading to diagnosis of Ehlers-Danlos syndrome: report of surgical management and review of the literature. Sacks H, et al. **J Oral Maxillofac Surg** 1990 Jun;48(6):641–7 (39 ref.)
Urinary bladder diverticula and the Ehlers-Danlos syndrome in children. Levard G, et al. **J Pediatr Surg** 1989 Nov; 24(11):1184–6 (14 ref.)
Ehlers-Danlos syndrome associated with acute pancreatitis. Sarra-Carbonell S, et al. **J Rheumatol** 1989 Oct; 16(10):1390–4
Treatment of carotid-cavernous fistulas associated with Ehlers-Danlos syndrome. Halbach VV, et al. **Neurosurgery** 1990 Jun;26(6):1021–7
Cerebrovascular disease in Ehlers-Danlos syndrome type IV. Schievink WI, et al. **Stroke** 1990 Apr;21(4):626–32
[A case of congenital bilateral hip luxation in Ehlers-Danlos syndrome] Preti P, et al. **Chir Organi Mov** 1989 Jul–Dec; 74(3–4):155–7 (Ita)
[The Ehlers-Danlos syndrome and its surgical implications] Naclerio S, et al. **Clin Ter** 1990 Feb 28;132(4):235–48 (19 ref.) (Eng. Abstr.) (Ita)
[Anesthesia for a patient with Ehlers-Danlos syndrome and factor XIII deficiency] Suzuki T, et al. **Masui** 1989 Nov; 38(11):1518–21 (Eng. Abstr.) (Jpn)
[Neurologic manifestations of Ehlers-Danlos syndrome] Narycheva IA, et al. **Zh Nevropatol Psikhiatr** 1989; 89(10):48–53 (Eng. Abstr.) (Rus)

DIAGNOSIS

Type IV Ehlers-Danlos syndrome presenting as sudden infant death. Byard RW, et al. **Am J Clin Pathol** 1990 Apr; 93(4):579–82
Prenatal diagnosis and prevention of inherited abnormalities of collagen. Pope FM, et al. **J Inherited Metab Dis** 1989; 12 Suppl 1:135–73 (75 ref.)
[What is your diagnosis? Ehlers-Danlos syndrome] Itin P. **Schweiz Rundsch Med Prax** 1989 Jul 18;78(29–30):795–6 (Ger)
[Ehlers-Danlos syndrome] Datskovskiĭ BM, et al. **Klin Med (Mosk)** 1990 Jan;68(1):112–4 (Rus)
[A case of Ehlers-Danlos syndrome in an orthopedic patient] Krisiuk AP, et al. **Ortop Travmatol Protez** 1989 Dec; (12):54–6 (Rus)

GENETICS

Inheritance of an RNA splicing mutation (G+ 1 IVS20) in the type III procollagen gene (COL3A1) in a family having aortic aneurysms and easy bruisability: phenotypic overlap between familial arterial aneurysms and Ehlers-Danlos syndrome type IV. Kontusaari S, et al. **Am J Hum Genet** 1990 Jul;47(1):112–20
Identical G+1 to A mutations in three different introns of the type III procollagen gene (COL3A1) produce different patterns of RNA splicing in three variants of Ehlers-Danlos syndrome. IV. An explanation for exon skipping some mutations and not others. Kuivaniemi H, et al. **J Biol Chem** 1990 Jul 15;265(20):12067–74
Single base mutation in the type III procollagen gene that converts the codon for glycine 883 to aspartate in a mild variant of Ehlers-Danlos syndrome IV. Tromp G, et al. **J Biol Chem** 1989 Nov 15;264(32):19313–7
Structural and functional characterization of a splicing mutation in the pro-alpha 2(I) collagen gene of an

Ehlers–Danlos type VII patient. Weil D, et al. **J Biol Chem** 1990 Sep 15;265(26):16007–11

In vivo and in vitro noncovalent association of excised alpha 1 (I) amino–terminal propeptides with mutant pN alpha 2(I) collagen chains in native mutant collagen in a case of Ehlers–Danlos syndrome, type VII. Wirtz MK, et al. **J Biol Chem** 1990 Apr 15;265(11):6312–7

[Collagen metabolic disorders—Ehlers–Danlos syndrome and osteogenesis imperfecta] Nagai Y. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):801–4 **(Jpn)**

METABOLISM

Biochemical, morphological and stereological study of the dermis in three members of a large family with type IV Ehlers–Danlos syndrome. Vitellaro–Zuccarello L, et al. **Connect Tissue Res** 1989;23(1):1–17

Fibronectin receptor on polymorphonuclear leukocytes in families of Ehlers–Danlos syndrome and other hereditary connective tissue diseases. Miura S, et al. **J Lab Clin Med** 1990 Sep;116(3):363–8

Another mechanism for the defect in type III collagen accumulation in Ehlers–Danlos syndrome type IV: increased intracellular degradation of the procollagen. Utani A, et al. **Lab Invest** 1990 Aug;63(2):181–8

Pregnancy loss and fathers with Ehlers–Danlos syndrome [letter] Levick K. **Lancet** 1989 Nov 11;2(8672):1151

[Electron microscopic and immunohistological studies of a case of Ehlers–Danlos syndrome type IV] Matsuta M, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Apr;99(5):601–7 (Eng. Abstr.) **(Jpn)**

[Structural characteristics of collagens from the skin and rib cartilage of patients with Ehlers–Danlos syndrome type II] Sokolov BP, et al. **Vopr Med Khim** 1990 Jan–Feb; 36(1):90–3 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Growth kinetics of fibroblasts from a patient with Ehlers–Danlos syndrome. Oku T, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):56–7

Craniofacial manifestations of Ehlers–Danlos syndromes, cutis laxa syndromes, and cutis laxa–like syndromes. Gorlin RJ, et al. **Birth Defects** 1989;25(4):39–71 (240 ref.)

[A case manifesting Ehlers–Danlos syndrome in the jaw bones] Kurakin AV, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):69–70 **(Rus)**

PHYSIOPATHOLOGY

Insufficient effect of local analgesics in Ehlers Danlos type III patients (connective tissue disorder). Arendt–Nielsen L, et al. **Acta Anaesthesiol Scand** 1990 Jul;34(5):358–61

The effects of age, vessel size, and Ehlers–Danlos type IV syndrome on the waviness index of arteries. Dunmore PJ, et al. **Clin Invest Med** 1990 Apr;13(2):67–70

Dental implications in Ehlers–Danlos syndrome. A case report. Fridrich KL, et al. **Oral Surg Oral Med Oral Pathol** 1990 Apr;69(4):431–5

Reduced strength of skin in Ehlers Danlos syndrome, type III. Kålund S, et al. **Scand J Rheumatol** 1990;19(1):67–70

[Echocardiographic study of the heart in children with mitral valve prolapse and connective tissue dysplasia] Deliagin VM, et al. **Pediatriia** 1990;(1):52–8 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Cases of the day. General. Ehlers–Danlos syndrome (type III). Miron MC, et al. **Radiographics** 1990 Jul;10(4):735–8

SURGERY

Surgical aspects of the Ehlers–Danlos syndrome. A survey of 100 cases. Beighton P, et al. **Br J Surg** 1969 Apr; 56(4):255–9 (35 ref.)

Prophylactic colectomy in Ehlers–Danlos syndrome with colonic ectasia. Shi EC, et al. **J Pediatr Surg** 1989 Nov; 24(11):1187–8

THERAPY

Ehlers–Danlos syndrome. Taylor JA, et al. **J Manipulative Physiol Ther** 1990 Jun;13(5):273–8

VETERINARY

A connective tissue defect in two rabbits similar to the Ehlers–Danlos syndrome. Harvey RG, et al. **Vet Rec** 1990 Feb 10;126(6):130–2

EHRLICH ASCITES TUMOR see **CARCINOMA, EHRLICH TUMOR**

EHRLICHIA see under **RICKETTSIACEAE**

EHS TUMOR see **SARCOMA, EXPERIMENTAL**

EICOSANOIC ACIDS

BLOOD

Is phytanate accumulation pathognomonic for heredopathia atactica polyneuritiformis? [letter] Aldenhövel HB. **Arch Neurol** 1990 Sep;47(9):952

A case of Refsum disease with atypical clinical picture in family members. Marano R, et al. **Ital J Neurol Sci** 1989 Aug;10(4):451–4

METABOLISM

Mitochondrial oxidation of phytanic acid in human and monkey liver: implication that Refsum's disease is not a peroxisomal disorder. Watkins PA, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):580–6

Prostaglandin E1 modifies porcine cerebral arterial tone through cyclooxygenase related eicosanoid(s) release. Fukuda S, et al. **Brain Res** 1989 Sep 4;496(1–2):397–400

Eicosanoids and the hemodynamic course of live Escherichia coli–induced sepsis in baboons. Camporesi EM, et al. **Circ Shock** 1989 Nov;29(3):229–44

Loss of oxygen tolerance in newborn rabbits: relationship to changes in eicosanoid and antioxidant levels. Holtzman RB, et al. **Pediatr Pulmonol** 1989;7(4):200–8

The synthesis and effects of eicosanoids in avascular ocular tissues. Bazan HE. **Prog Clin Biol Res** 1989;312:73–84 (54 ref.)

Eicosanoid production and glucocorticoid regulatory mechanisms in cultured human trabecular meshwork cells. Polansky JR, et al. **Prog Clin Biol Res** 1989;312:113–38 (49 ref.)

The ocular effects of eicosanoids and other autacoids: historic background and the need for a broader perspective. Stjernschantz J, et al. **Prog Clin Biol Res** 1989;312:1–13

The effect of various nutrients on eicosanoid synthesis [editorial] Mikhailidis DP, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(4):213–4

Antiestrogens: structure, mode of action and relationship to eicosanoids. Peplow P, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Sep; 37(4):241–54 (183 ref.)

PHARMACOLOGY

Vasodynamic and angiogenic effects of eicosanoids in the eye. Stjernschantz J, et al. **Prog Clin Biol Res** 1989; 312:155–70 (77 ref.)

EICOSANOIDS

Trends in eicosanoid biology. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:1–256

More selective ligands at eicosanoid receptor subtypes improve prospects in inflammatory and cardiovascular research. Giles H. **Trends Pharmacol Sci** 1990 Aug; 11(8):301–4 (11 ref.)

ANALYSIS

Analysis of eicosanoid formation in humans by mass spectrometry. Fischer S. **Adv Lipid Res** 1989;23:199–217 (165 ref.)

BIOSYNTHESIS

Studies of renal eicosanoid synthesis in vivo and in vitro. Ciabattoni G, et al. **Adv Exp Med Biol** 1989;259:361–88 (103 ref.)

Dietary polyunsaturated fatty acids and eicosanoid formation in humans. Fischer S. **Adv Lipid Res** 1989;23:169–98 (138 ref.)

Eicosanoid production in rabbit vascular tissues and placentas. Brown GP, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):E418–22

Prostaglandin and leukotriene production by alveolar type II cells in vitro. Cott GR, et al. **Am J Physiol** 1990 Apr; 258(4 Pt 1):L179–87

Tissue origin of peptide–responsive eicosanoid production in rabbit intestine. Leduc LE, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G879–86

Role of ANG II in eicosanoid production by isolated glomeruli from rats with bilateral ureteral obstruction. Yanagisawa H, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F85–93

Eicosanoids and their role in atherosclerosis. Hajjar DP, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:21–6 (31 ref.)

Effects of recombinant interleukin–1 beta on phospholipase A2 activity, phospholipase A2 mRNA levels, and eicosanoid formation in rabbit chondrocytes. Kerr JS, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):1079–84

Eicosanoid production and cell accumulation induced by intrapleural injection of sodium arachidonate in the rat. Characterization of the model. Gans KR, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4151–4

High–density–lipoprotein–induced cholesterol efflux from arterial smooth muscle cell derived foam cells: functional relationship of the cholesteryl ester cycle and eicosanoid biosynthesis. Pomerantz KB, et al. **Biochemistry** 1990 Feb 20;29(7):1892–9

Regulation of eicosanoid synthesis in microvessel endothelium: glucocorticoids do not affect arachidonyl CoA synthetase activity. Gerritsen ME, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):174–9

Effect of ethanol on eicosanoid synthesis by human gastric and colonic mucosal pieces. Goel RK, et al. **Br J Pharmacol** 1990 Feb;99(2):289–92

Intracellular platelet–activating factor regulates eicosanoid generation in guinea–pig resident peritoneal macrophages. Stewart AG, et al. **Br J Pharmacol** 1989 Sep;98(1):141–8

Synthesis and relevance of cardiac eicosanoids with particular emphasis on ischemia and reperfusion. Karmazyn M. **Can J Physiol Pharmacol** 1989 Aug;67(8):912–21 (103 ref.)

Endotoxin–induced procoagulant activity, eicosanoid synthesis, and tumor necrosis factor production by rat peritoneal macrophages: effect of endotoxin tolerance and glucan. Moore JN, et al. **Circ Shock** 1990 Jul;31(3):281–95

Sulfhydryl reagents as model substances for eicosanoid research. Kaever V, et al. **Eicosanoids** 1988;1(1):49–57

Aluminium fluoride enhances phospholipase A2 activity and eicosanoid synthesis in macrophages. Wessel K, et al. **Eicosanoids** 1989;2(4):223–7

Effects of inhibitors of eicosanoid synthesis in the uterus of ovariectomized rats and rats in natural oestrus: relation with calcium. Cantabrana B, et al. **Gen Pharmacol** 1990; 21(1):89–95

Eicosanoid profile of healing colon anastomosis and peritoneal macrophages in the rat. van der Ham AC, et al. **Gut** 1990 Jul;31(7):807–11

Inhibition by adenosine 3',5'–monophosphate of eicosanoid and platelet–activating factor biosynthesis in the mouse PT–18 mast cell. Undem BJ, et al. **J Biol Chem** 1990 Apr 25;265(12):6750–8

Brain eicosanoid formation following acute penetration injury as studied by in vivo microdialysis. Yergey JA, et al. **J Cereb Blood Flow Metab** 1990 Jan;10(1):143–6

Intravascular filarial parasites elaborate cyclooxygenase–derived eicosanoids. Liu LX, et al. **J Exp Med** 1990 Sep 1;172(3):993–6

Eicosanoid synthesis in children with cholestatic disease. Dupont J, et al. **J Inherited Metab Dis** 1990;13(2):212–8

Comparison of eicosanoid generation by highly purified human Langerhans cells and keratinocytes. Rosenbach T, et al. **J Invest Dermatol** 1990 Jul;95(1):104–7

Effects of complement depletion on glomerular eicosanoid production and renal hemodynamics in rat nephrotoxic serum nephritis. Garcia–Estan J, et al. **J Lab Clin Med** 1989 Oct;114(4):389–93

Virus–transformed macrophage–like cell line as tool for eicosanoid research. Wessel K, et al. **J Leukoc Biol** 1989 Nov;46(5):476–83

Effects of fish oil on glomerular function in rats with diabetes mellitus. Sinha AK, et al. **J Lipid Res** 1990 Jul; 31(7):1219–28

Stimulation of gastric and colonic mucosal eicosanoid synthesis by plantain banana. Goel RK, et al. **J Pharm Pharmacol** 1989 Nov;41(11):747–50

Eicosanoid synthesis in human peritoneal macrophages stimulated with S. epidermidis. Mackenzie RK, et al. **Kidney Int** 1990 May;37(5):1316–24

Endothelin and eicosanoid synthesis in cultured mesangial cells. Zoja C, et al. **Kidney Int** 1990 Mar;37(3):927–33

Inhibition of eicosanoid biosynthesis by glucocorticoids in humans. Sebaldt RJ, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):6974–8

Modulation of eicosanoid biosynthesis and inhibition of substrate availability for phospholipase A2 by a modified hexose sugar, amiprilose hydrochloride. Young MR. **Prostaglandins** 1990 Jul;40(1):35–49

Renal eicosanoid synthesis in patients with renovascular hypertension. Mangino MJ, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Nov; 38(2):127–8

Effects of preload and eicosanoid synthesis inhibition on rat aortic smooth muscle sensitivity. Porsa E, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Oct; 38(1):61–5

Effect of glucocorticoids on arachidonate metabolism and prostaglandin secretion. Duval D. **Rev Esp Fisiol** 1990 Mar; 46(1):47–56 (113 ref.)

Glucocorticoid control of eicosanoid synthesis. Russo–Marie F. **Semin Nephrol** 1990 Jul;10(4):421–9 (55 ref.)

Arachidonic acid metabolism and renal allograft rejection. Mangino MJ, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):444–5

[Essential fatty acids and the skin] Berbis P, et al. **Allerg Immunol (Paris)** 1990 Jun;22(6):225–31 (36 ref.) (Eng. Abstr.) **(Fre)**

[Kinetics of eicosanoid formation in human epidermal cells in suspension] Vila L, et al. **Med Cutan Ibero Lat Am** 1989; 17(5):332–7 (Eng. Abstr.) **(Spa)**

BLOOD

Role of eicosanoids and white blood cells in the beneficial effects of limited reperfusion after ischemia–reperfusion injury in skeletal muscle. Anderson RJ, et al. **Am J Surg** 1990 Aug;160(2):151–5

Primary stimuli of icosanoid release inhibit arachidonoyl–CoA synthetase and lysophospholipid acyltransferase. Mechanism of action of hydrogen peroxide and methyl mercury in platelets. Hornberger W, et al. **Eur J Biochem** 1990 Jan 12;187(1):175–81

Effects of dietary oleic, linoleic and alpha–linolenic acids on blood pressure, serum lipids, lipoproteins and the formation of eicosanoid precursors in patients with mild essential hypertension. Singer P, et al. **J Hum Hypertens** 1990 Jun;4(3):227–33

Albumin redirects platelet eicosanoid metabolism toward 12(S)–hydroxyeicosatetraenoic acid. Broekman MJ, et al. **J Lipid Res** 1989 Dec;30(12):1925–32

[Responses of plasma eicosanoids and hemodynamics to

myocardial ischemia and the salutary effect of calcium entry blocker] Takase B. **Nippon Ika Daigaku Zasshi** 1990 Feb;57(1):42–54 (Eng. Abstr.) **(Jpn)**

[Significance of raised production of eicosanoids during the increase of immunosuppressive activity of the serum after hemosorption] Grando SA, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):172–4 **(Rus)**

CEREBROSPINAL FLUID

Eicosanoid levels in CSF of premature infants with posthemorrhagic hydrocephalus. White RP, et al. **Am J Med Sci** 1990 Apr;299(4):230–5

CLASSIFICATION

Guidelines on eicosanoid nomenclature. **Eicosanoids** 1989; 2(2):65–8

GENETICS

Evolutionary aspects of prostaglandins and other eicosanoids in invertebrates. Stanley-Samuelson DW, et al. **Prog Clin Biol Res** 1990;342:614–9 (22 ref.)

METABOLISM

Renal eicosanoids. Based on a symposium. June 9–11, 1987, Capri, Italy. Proceedings. **Adv Exp Med Biol** 1989; 259:1–421

Eicosanoids and platelet activating factor as possible mediators of injury in experimental nephropathies. Remuzzi G. **Adv Exp Med Biol** 1989;259:221–47 (108 ref.)

Abnormalities of glomerular eicosanoid metabolism in states of glomerular hyperfiltration. Schambelan M, et al. **Adv Exp Med Biol** 1989;259:275–304 (122 ref.)

Renal vascular responses and eicosanoid release in diabetic rats. Sarubbi D, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):F762–8

Detergents, dimeric G beta gamma, and eicosanoid pathways to muscarinic atrial K+ channels. Yatani A, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1507–14

Altered release of eicosanoids by rat alveolar macrophages during granulomatous pulmonary inflammation. Shellito J, et al. **Am J Respir Cell Mol Biol** 1990 Mar;2(3):289–96

Eicosanoids in myocardial ischemia. Schrör K, et al. **Biomed Biochim Acta** 1989;48(10):729–34 (56 ref.)

Mononuclear phagocytes and eicosanoids: aspects of their synthesis and biological activities. Schade UF, et al. **Biol** 1989 Dec;59(6):475–85 (124 ref.)

Involvement of eicosanoids and PAF in immune-complex alveolitis. Tavares-de-Lima W, et al. **Braz J Med Biol Res** 1989;22(6):745–8

The effect of dietary fish oil and long-term salt loading on blood pressure and eicosanoid metabolism in spontaneously hypertensive rats. Croft KD, et al. **Clin Exp Pharmacol Physiol** 1988 Apr;15(4):367–71

Dietary modification of lead toxicity: effects on fatty acid and eicosanoid metabolism in chicks. Knowles SO, et al. **Comp Biochem Physiol [C]** 1990;95(1):99–104

Dietary lipids, eicosanoids, and the immune system. Kinsella JE, et al. **Crit Care Med** 1990 Feb;18(2 Suppl):S94–113 (124 ref.)

Therapeutic impact of eicosanoids in atherosclerotic disease. Willis AL, et al. **Eicosanoids** 1989;2(2):69–99 (348 ref.)

Pertussis toxin and H-7 distinguish mechanisms involved in eicosanoid release from lipopolysaccharide-primed macrophages. Eicosanoid release from lipopolysaccharide-primed macrophages. Matsunaga A, et al. **Eur J Biochem** 1990 Feb 14;187(3):599–603

Modulation of pulmonary eicosanoid metabolism following exposure to sulfuric acid. Schlesinger RB, et al. **Fundam Appl Toxicol** 1990 Jul;15(1):151–62

Icosanoid synthesis as a functional measurement of essential fatty acid requirement. Dupont J, et al. **J Am Coll Nutr** 1990 Jun;9(3):272–6 (19 ref.)

Eicosanoid release from human bronchial epithelial cells upon exposure to toluene diisocyanate in vitro. Mattoli S, et al. **J Cell Physiol** 1990 Feb;142(2):379–85

Kinetics of phospholipase A2, arachidonic acid, and eicosanoid appearance in mouse zymosan peritonitis. Lundy SR, et al. **J Immunol** 1990 Apr 1;144(7):2671–7

Alterations in the pattern of arachidonate metabolism accompany rat macrophage differentiation in the lung. Peters-Golden M, et al. **J Immunol** 1990 Jan 1; 144(1):263–70

The antiinflammatory effects of essential fatty acid deficiency in experimental glomerulonephritis. The modulation of macrophage migration and eicosanoid metabolism. Schreiner GF, et al. **J Immunol** 1989 Nov 15;143(10):3192–9

Nutrient and nonnutrient renal blood flow. Young JS, et al. **J Lab Clin Med** 1990 Jun;115(6):680–7

Effects of nicardipine on the ex vivo release of eicosanoids after experimental subarachnoid hemorrhage. Rodriguez y Baena R, et al. **J Neurosurg** 1989 Dec;71(6):903–8

Smoking, eicosanoids and ulcerative colitis. Motley RJ, et al. **J Pharm Pharmacol** 1990 Apr;42(4):288–9

Eicosanoid production by isolated glomeruli of rats with unilateral ureteral obstruction. Yanagisawa H, et al. **Kidney Int** 1990 Jun;37(6):1528–35

High-dose methylprednisolone and 'ex vivo' release of eicosanoids after experimental subarachnoid haemorrhage. Gaetani P, et al. **Neurol Res** 1990 Jun;12(2):111–6

Platelet-activating factor may act as a second messenger in the release of icosanoids and superoxide anions from leukocytes and endothelial cells. Stewart AG, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3215–9

Eicosanoids and the liver. Huber M, et al. **Prog Liver Dis** 1990;9:117–41 (219 ref.)

Uteroplacental production of eicosanoids in ovine pregnancy. Magness RR, et al. **Prostaglandins** 1990 Jan;39(1):75–88

Peritoneal fluid eicosanoids in chronic pelvic pain. Rapkin A, et al. **Prostaglandins** 1989 Oct;38(4):447–52

Influence of inhibitors of eicosanoid metabolism on proliferation of rat hepatoma cells and on tumor-host interaction. Cyran JA, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Apr; 39(4):311–7

Vitamin E and platelet eicosanoids in diabetes mellitus. Gisinger C, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Jul; 40(3):169–76 (115 ref.)

Renal eicosanoids. Norris SH. **Semin Nephrol** 1990 Jan; 10(1):64–88 (114 ref.)

Eicosanoid release in polymorphous light eruption: selective UV-A-induced LTB4 generation by peripheral blood leukocytes. Ruzicka T, et al. **Skin Pharmacol** 1988; 1(3):186–91

PHARMACOLOGY

Functional role of eicosanoids in the gastrointestinal tract. Rask-Madsen J, et al. **Acta Gastroenterol Belg** 1988 Nov-Dec;51(6):439–49 (56 ref.)

Novel eicosanoids generated by cytochrome P450: effects on platelet aggregation and protein phosphorylation. Malcolm K, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:87–94

Immunomodulation by eicosanoids and anti-inflammatory drugs. Goodwin JS. **Curr Opin Immunol** 1989 Dec; 2(2):264–8 (21 ref.)

The ocular effects of prostaglandins and other eicosanoids. **Prog Clin Biol Res** 1989;312:1–481

PHYSIOLOGY

Eicosanoids: role in experimental renal disease. Klahr S, et al. **Adv Exp Med Biol** 1989;259:249–74 (81 ref.)

The role of eicosanoids in human glomerular disease. Pierucci A, et al. **Adv Exp Med Biol** 1989;259:389–421 (137 ref.)

The role of eicosanoids in allergen-induced early and late bronchial responses in allergic sheep. Abraham WM. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:201–8 (41 ref.)

Microvascular actions of eicosanoids in the hamster cheek pouch. Hedqvist P, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:153–60 (24 ref.)

Interactions of eicosanoids and cytokines in immune regulation. Lewis RA. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:170–8 (43 ref.)

Eicosanoids in aspirin-induced asthma. Gryglewski RJ. **Agents Actions Suppl** 1989;28:113–21 (32 ref.)

Role of platelet-activating factor and eicosanoids during endotoxin-induced lung injury in pigs. Olson NC, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1674–86

Cytokines and eicosanoids in rheumatic diseases. Hopkins SJ. **Ann Rheum Dis** 1990 Apr;49(4):207–10 (32 ref.)

Activation of glycogenolysis by stimulation of the hepatic nerves in perfused livers of guinea pig and tree shrew as compared to rat: differences in the mode of action. Beckh K, et al. **Biol Chem Hoppe Seyler** 1990 Feb;371(2):153–8

Alveolar macrophages and eicosanoids but not neutrophils, mediate bronchoconstriction induced by FMLP in the guinea-pig. Boukili MA, et al. **Br J Pharmacol** 1989 Sep; 98(1):61–70

Relationships between tumour necrosis factor, eicosanoids and platelet-activating factor as mediators of endotoxin-induced shock in mice. Myers AK, et al. **Br J Pharmacol** 1990 Mar;99(3):499–502

Biochemistry and pharmacology of cyclooxygenase inhibitors. Bailey JM. **Bull N Y Acad Med** 1989 Jan; 65(1):5–15 (9 ref.)

Lipid mediators of the allergic reaction. Chilton FH, et al. **Chem Immunol** 1990;49:173–205 (225 ref.)

Eicosanoids, inflammation, and anti-inflammatory drugs. Robinson DR. **Clin Exp Rheumatol** 1989 Sep-Oct;7 Suppl 3:S155–61 (35 ref.)

Effects of inhibitors of phospholipase A2, cyclooxygenase and thromboxane synthetase on paracetamol hepatotoxicity in the rat. Horton AA, et al. **Eicosanoids** 1989;2(2):123–9

The physiology and pathophysiology of eicosanoids in the skin. Ruzicka T. **Eicosanoids** 1988;1(2):59–72 (147 ref.)

Eicosanoids, epithelium and airway reactivity. Raeburn D. **Gen Pharmacol** 1990;21(1):11–6 (44 ref.)

Eicosanoids and blood pressure during hemodialysis. Schultze G. **Int J Artif Organs** 1990 Mar;13(3):145–8 (46 ref.)

Kinin signal transduction: role of phosphoinositides and eicosanoids. Burch RM. **J Cardiovasc Pharmacol** 1990;15 Suppl 6:S44–5

Converting enzyme inhibitors and the interaction between kinins and eicosanoids. Schrör K. **J Cardiovasc Pharmacol** 1990;15 Suppl 6:S60–8 (86 ref.)

Influence on intestinal secretion of eicosanoids. Rask-Madsen J, et al. **J Intern Med Suppl** 1990;732:137–44 (38 ref.)

Role of dietary lipids and renal eicosanoids on the progression of renal disease. Klahr S, et al. **Kidney Int Suppl** 1989 Nov; 27:S27–31 (58 ref.)

Interactions via eicosanoids between vascular and blood cells. Takayama H. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec; 52(8):1322–9 (17 ref.)

Neuroendocrine involvements of the prostaglandin autacoids. Nechifor M. **Physiologie** 1989 Jul-Sep;26(3):217–21 (37 ref.)

Eicosanoids in corals and crustaceans: primary metabolites that function as allelochemicals and pheromones. Gerhart DJ, et al. **Prog Clin Biol Res** 1990;342:598–602 (31 ref.)

Eicosanoids and peripheral neurotransmission. Serio R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Dec; 38(4):237–46 (75 ref.)

Role of eicosanoids as mediators of inflammation in inflammatory bowel disease. Stenson WF. **Scand J Gastroenterol Suppl** 1990;172:13–8 (16 ref.)

Role of eicosanoids and related mediators in gastric mucosal ulceration. Whittle BJ. **Scand J Gastroenterol Suppl** 1989; 162:222–4

Eicosanoids in the local regulation of haemostasis. Sinzinger H, et al. **Z Kardiol** 1989;78 Suppl 6:30–4 (26 ref.)

[Eicosanoid receptor and signal transduction] Nakamura M, et al. **Nippon Rinsho** 1990 Jun;48(6):1129–33 **(Jpn)**

[Eicosanoids] Shimizu T, et al. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):546–60 **(Jpn)**

SECRETION

Hydrogen peroxide and methyl mercury are primary stimuli of eicosanoid release in human platelets. Hornberger W, et al. **J Clin Chem Clin Biochem** 1989 Sep;27(9):567–75

URINE

Prostacyclin and thromboxane biosynthesis in mild essential hypertension. Minuz P, et al. **Hypertension** 1990 May; 15(5):469–74

Relationship of dietary fat to plasma fatty acids, blood pressure, and urinary eicosanoids in adult men. Judd JT, et al. **J Am Coll Nutr** 1989 Oct;8(5):386–99

5,8,11,14,17-EICOSAPENTAENOIC ACID

ADMINISTRATION & DOSAGE

Dietary fish oils in the prevention and management of cardiovascular and other diseases. Bang HO. **Compr Ther** 1990 May;16(5):31–5 (30 ref.)

ANALOGS & DERIVATIVES

Comparison of the effect between leukotriene B4 and leukotriene B5 on the induction of interleukin 1-like activity and calcium mobilizing activity in human blood monocytes. Tatsuno I, et al. **Agents Actions** 1990 Mar; 29(3-4):324–7

Effect of dietary oils on the production of n-3 and n-6 metabolites of leukocyte 5-lipoxygenase in five rat strains. Cleland LG, et al. **Biochim Biophys Acta** 1990 Apr 17; 1043(3):253–8

Effect of dietary fish oils on the formation of leukotriene B4 and B5, thromboxane and platelet activating factor by rat leukocytes. Croft KD, et al. **Clin Exp Pharmacol Physiol** 1988 Jul;15(7):517–25

Effects of dietary supplementation with polyunsaturated ethyl ester lipids (Angiosan) in patients with psoriasis and psoriatic arthritis. Lassus A, et al. **J Int Med Res** 1990 Jan-Feb;18(1):68–73

Effect of leukotriene B5 on the accumulation of polymorphonuclear leukocytes in unstimulated and leukotriene B4-stimulated human skin. Wozel G, et al. **Skin Pharmacol** 1990;3(1):45–8

ANALYSIS

Occurrence of geometrical isomers of eicosapentaenoic and docosahexaenoic acids in liver lipids of rats fed heated linseed oil. Grandgirard A, et al. **Lipids** 1989 Sep; 24(9):799–804

Fatty acid composition of some South African fresh-water fish. Chetty N, et al. **S Afr Med J** 1989 Oct 7;76(7):368–70

[Comment on the editorial "Fischtran" by P.W. Straub, Schweiz. med. Wschr. 1989; 119:963–964 (letter)] Hüve J. **Schweiz Med Wochenschr** 1989 Sep 30;119(39):1360–1 **(Ger)**

BIOSYNTHESIS

Guinea pig epidermis generates putative anti-inflammatory metabolites from fish oil polyunsaturated fatty acids. Miller C, et al. **Lipids** 1989 Dec;24(12):998–1003

[Cardiovascular effects of omega-3 fatty acids: its significance in preventing arteriosclerosis and coronary disease] Ribeiro LG, et al. **Arq Bras Cardiol** 1989 Apr; 52(4):217–25 (53 ref.) **(Por)**

BLOOD

Dietary canola oil: effect on the accumulation of eicosapentaenoic acid in the alkenylacyl fraction of human platelet ethanolamine phosphoglyceride. Weaver BJ, et al.

Am J Clin Nutr 1990 Apr;51(4):594–8

Incorporation and effects of dietary eicosapentaenoate (20:5(n–3)) on plasma and erythrocyte lipids of the marmoset following dietary supplementation with differing levels of linoleic acid. McMurchie EJ, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):164–73

Erythrocyte EPA as a marker for intake of fish and fish oil [letter] Brown AJ, et al. **Eur J Clin Nutr** 1990 Jun; 44(6):487–8

Comparison of the increment in plasma eicosapentaenoate concentrations by fish oil intake between young and middle-aged volunteers. Sawazaki S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Aug;35(4):349–59

METABOLISM

Identification of hydroxyalkenals formed from omega-3 fatty acids. Beckman JK, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):75–80

5-series peptido-leukotriene synthesis in mouse peritoneal macrophages: modulation by dietary n-3 fatty acids. Chapkin RS, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):764–9

Chain elongation of eicosapentaenoic acid in the macrophage. Chapkin RS, et al. **Biochim Biophys Acta** 1990 Feb 6; 1042(2):265–7

The Zellweger syndrome: deficient conversion of docosahexaenoic acid (22:6(n-3)) to eicosapentaenoic acid (20:5(n-3)) and normal delta 4-desaturase activity in cultured skin fibroblasts. Grønn M, et al. **Biochim Biophys Acta** 1990 May 22;1044(2):249–54

Identification of 11-dehydrothromboxane B3 in human urine after administration of eicosapentaenoic acid. Ishibashi M, et al. **Biomed Environ Mass Spectrom** 1990 Jun;19(6):387–9

Evidence that increasing the cellular content of eicosapentaenoic acid does not reduce the biosynthesis of platelet-activating factor. Triggiani M, et al. **J Immunol** 1990 Oct 1;145(7):2241–8

Eicosapentaenoic acid metabolism in brain microvessel endothelium: effect on prostaglandin formation. Yerram NR, et al. **J Lipid Res** 1989 Nov;30(11):1747–57

Comparison of the effect of lipoxygenase metabolites of arachidonic acid and eicosapentaenoic acid on human natural killer cell cytotoxicity. Chang KJ, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Nov; 38(2):87–90

PHARMACOKINETICS

Recovery of fish oil-derived fatty acids in lymph of thoracic duct-cannulated Wistar rats. Reicks M, et al. **Lipids** 1990 Jan;25(1):6–10

[Comparative bioavailability of eicosapentaenoic acid and docasahexaenoic acid from triglycerides, free fatty acids and ethyl esters in volunteers] Beckermann B, et al. **Arzneimittelforschung** 1990 Jun;40(6):700–4 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Divergent lipoprotein responses to fish oils with various ratios of eicosapentaenoic acid and docosahexaenoic acid. Childs MT, et al. **Am J Clin Nutr** 1990 Oct;52(4):632–9

Differential sensitivity of tumorigenic and genetically related non-tumorigenic cells to cytotoxic polyunsaturated fatty acids. Bégin ME, et al. **Anticancer Res** 1989 Jul-Aug; 9(4):1049–52

Effects of eicosapentaenoic and docosahexaenoic acids on apoprotein B mRNA and secretion of very low density lipoprotein in HepG2 cells. Wong SH, et al. **Arteriosclerosis** 1989 Nov-Dec;9(6):836–41

Effect of a high fat/cholesterol diet with or without eicosapentaenoic acid on plasma lipids, lipoproteins and lipid transfer protein activity in the marmoset. Abbey M, et al. **Atherosclerosis** 1990 Apr;81(3):163–74

In vitro effect of eicosapentaenoic and docosahexaenoic acids on prostaglandin E2 synthesis in a human lung carcinoma. de Antueno RJ, et al. **Biochem Int** 1989 Sep;19(3):489–96

Effect of eicosapentaenoic acid on triacylglycerol transport in CaCo-2 cells. Murthy S, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):147–55

Fish oil: a panacea? Bilo HJ, et al. **Biomed Pharmacother** 1990;44(3):169–74 (65 ref.)

Short-term effects of omega-3 fatty acids on exercise stress test parameters, angina and lipoproteins. Vacek JL, et al. **Biomed Pharmacother** 1989;43(5):375–9 (20 ref.)

Chronic exposure of cultured endothelial cells to eicosapentaenoic acid potentiates the release of endothelium-derived relaxing factor(s). Boulanger C, et al. **Br J Pharmacol** 1990 Jan;99(1):176–80

Lipids in breast carcinogenesis [see comments] Pritchard GA, et al. **Br J Surg** 1989 Oct;76(10):1069–73 Comment in: Br J Surg 1990 Mar;77(3):353–4.

Effect of pure eicosapentaenoic acid feeding on blood pressure and vascular reactivity in spontaneously hypertensive rats. Yin K, et al. **Clin Exp Pharmacol Physiol** 1988 Apr;15(4):275–80

Influence of eicosapentaenoic acid and vitamin E on hepatic hydroxyproline content in rabbits fed cholesterol-rich diet. Omer B, et al. **Int J Vitam Nutr Res** 1989;59(4):396–400

Effects of a new fluid fish oil concentrate, ESKIMO-3, on triglycerides, cholesterol, fibrinogen and blood pressure. Haglund O, et al. **J Intern Med** 1990 May;227(5):347–53

Trans n-3 eicosapentaenoic and docosahexaenoic acid isomers exhibit different inhibitory effects on arachidonic acid metabolism in human platelets compared to the respective cis fatty acids. O'Keefe SF, et al. **J Lipid Res** 1990 Jul;31(7):1241–6

Fish oil and baroreceptor function in man. Weisser B, et al. **Klin Wochenschr** 1990;68 Suppl 20:49–52

Effect of eicosapentaenoic and docosahexaenoic acids on blood pressure in hypertension. A population-based intervention trial from the Tromsø study. Bønaa KH, et al. **N Engl J Med** 1990 Mar 22;322(12):795–801

Acute and chronic effects of eicosapentaenoic acid (EPA) on the cardiovascular system. Bayorh MA, et al. **Res Commun Chem Pathol Pharmacol** 1989 Dec; 66(3):355–74

Modulation of gamma-glutamyl transpeptidase activity by dietary eicosapentaenoic acid and vitamin E in livers of rabbits on hypercholesterolemic diet. Eryürek FG, et al. **Res Commun Chem Pathol Pharmacol** 1989 Sep; 65(3):389–92

Eicosapentaenoic acid interferes with U46619-stimulated formation of inositol phosphates in washed rabbit platelets. Chetty N, et al. **Thromb Haemost** 1989 Dec 29; 62(4):1116–20

Functions and tocopherol content of blood platelets from elderly people after low intake of purified eicosapentaenoic acid. Croset M, et al. **Thromb Res** 1990 Jan 1;57(1):1–12

[General pharmacological studies on 5,8,11,14,17-eicosapentaenoic acid ethyl ester (EPA-E)] Sato M, et al. **Nippon Yakurigaku Zasshi** 1989 Jul; 94(1):35–47 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

The effect of eicosapentaenoic acid in the treatment of atopic dermatitis. A clinical study. Søyland E, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;144:139

Effect of fish oil treatment on plasma lipoproteins in type III hyperlipoproteinaemia. Mölgaard J, et al. **Atherosclerosis** 1990 Feb;81(1):1–9

A placebo-controlled, double-blind study of eicosapentaenoic acid-rich fish oil in patients with stable angina pectoris. Solomon SA, et al. **Curr Med Res Opin** 1990;12(1):1–11

Suppression by ingested eicosapentaenoic acid of the increases in nasal mucosal blood flow and eosinophilia of ryegrass-allergic reactions. Rangi SP, et al. **J Allergy Clin Immunol** 1990 Feb;85(2):484–9

[Anti-atherosclerotic properties of eicosapentaenoic acid: clinico-experimental study] Reng LC, et al. **Vopr Pitan** 1989 May-Jun;(3):20–2 (Eng. Abstr.) **(Rus)**

TOXICITY

Comparison of the damage-promoting effects of leukotrienes derived from eicosapentaenoic acid and arachidonic acid on the rat stomach. Wallace JL, et al. **J Exp Med** 1990 May 1;171(5):1827–32

EICOSATETRAENOIC ACIDS see **ARACHIDONIC ACIDS**

5,8,11,14-EICOSATETRAYNOIC ACID see under **FATTY ACIDS, UNSATURATED**

8,11,14-EICOSATRIENOIC ACID see under **FATTY ACIDS, UNSATURATED**

EIDETIC IMAGERY

Implicit memory in spelling from word images. Wippich W, et al. **Psychol Res** 1989;51(4):208–16

PHYSIOLOGY

Effect of music-assisted imagery on neutrophils and lymphocytes. Rider MS, et al. **Biofeedback Self Regul** 1989 Sep;14(3):247–57

EIF-1

GENETICS

Fruit flies with additional expression of the elongation factor EF-1 alpha live longer. Shepherd JC, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7520–1

Site-directed mutagenesis of Escherichia coli translation initiation factor IF1. Identification of the amino acid involved in its ribosomal binding and recycling. Gualerzi CO, et al. **Protein Eng** 1989 Nov;3(2):133–8

EIF-2

ANALYSIS

Affinity labeling of eukaryotic initiation factor 2 and elongation factor 1 alpha beta gamma with GTP analogs. Anthony DD Jr, et al. **Arch Biochem Biophys** 1990 Aug 15;281(1):157–62

BLOOD

Photoaffinity labeling of the rabbit reticulocyte guanine nucleotide exchange factor and eukaryotic initiation factor 2 with 8-azidopurine nucleotides. Identification of GTP- and ATP-binding domains. Dholakia JN, et al. **J Biol Chem** 1989 Dec 5;264(34):20638–42

GENETICS

Characterization of the translational start site for IF2 beta, a short form of Escherichia coli initiation factor IF2. Morel-Deville F, et al. **Eur J Biochem** 1990 Mar 30; 188(3):605–14

Isolation and characterization of the promoter and flanking regions of the gene encoding the human protein-synthesis-initiation factor 2 alpha. Hümbelin M, et al. **Gene** 1989 Sep 30;81(2):315–24

Identification and characterization of a novel transcription factor participating in the expression of eukaryotic initiation factor 2 alpha. Jacob WF, et al. **J Biol Chem** 1989 Dec 5;264(34):20372–84

Isolation and characterization of the Drosophila translational elongation factor 2 gene. Grinblat Y, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7303–14

Complementation of adenovirus virus-associated RNA I gene deletion by expression of a mutant eukaryotic translation initiation factor. Davies MV, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9163–7

Mutations in the structural genes for eukaryotic initiation factors 2 alpha and 2 beta of Saccharomyces cerevisiae disrupt translational control of GCN4 mRNA. Williams NP, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7515–9

ISOLATION & PURIFICATION

Identification and initial characterization of translational initiation factor 2 from bovine mitochondria. Liao HX, et al. **J Biol Chem** 1990 Aug 15;265(23):13618–22

Identification and characterization of large, complex forms of chloroplast translational initiation factor 2 from Euglena gracilis. Ma L, et al. **J Biol Chem** 1990 Aug 15; 265(23):13560–5

METABOLISM

Evaluation of protein phosphorylation state by a combination of vertical slab gel isoelectric focusing and immunoblotting. Maurides PA, et al. **Anal Biochem** 1989 Nov 15; 183(1):144–51

Kinetic parameters governing the formation of eIF-2.methionyl-tRNAi complexes in protein synthesis. Manchester KL, et al. **Biochem Int** 1990;20(2):257–65

Inhibition of the initiation of hepatic protein synthesis during ethionine mediated ATP depletion in vivo: modification to ribosomal subunits, evidence of impaired ternary complex formation and a subcellular redistribution of eIF-2 alpha. Lyon AW, et al. **Biochim Biophys Acta** 1990 Jun 21;1049(2):158–70

Serum growth factors cause rapid stimulation of protein synthesis and dephosphorylation of eIF-2 in serum deprived Ehrlich cells. Montine KS, et al. **Biochim Biophys Acta** 1989 Dec 14;1014(3):282–8

Phosphorylation of protein synthesis initiation factor-2. Identification of the site in the alpha-subunit phosphorylated in reticulocyte lysates. Price NT, et al. **Biochim Biophys Acta** 1990 Aug 13;1054(1):83–8

The phosphorylation of eukaryotic initiation factor 2: a principle of translational control in mammalian cells. Sarre TF. **Biosystems** 1989;22(4):311–25 (105 ref.)

Heat-stable translational inhibitor from rabbit reticulocyte lysates. Gaitero F, et al. **FEBS Lett** 1989 Nov 6; 257(2):297–301

Two phosphorylation sites on eIF-2 alpha. Kramer G. **FEBS Lett** 1990 Jul 16;267(2):181–2

Subcellular and regional distribution of casein kinase II and initiation factor 2 activities during rat brain development. Martín ME, et al. **Int J Dev Neurosci** 1990;8(1):47–54

Glycosylation of eukaryotic peptide chain initiation factor 2 (eIF-2)-associated 67-kDa polypeptide (p67) and its possible role in the inhibition of eIF-2 kinase-catalyzed phosphorylation of the eIF-2 alpha-subunit. Datta B, et al. **J Biol Chem** 1989 Dec 5;264(34):20620–4

Binding of ATP to eukaryotic initiation factor 2. Differential modulation of mRNA-binding activity and GTP-dependent binding of methionyl-tRNAMetf. Gonsky R, et al. **J Biol Chem** 1990 Jun 5;265(16):9083–9

Regulation of eukaryotic initiation factor-2B activity by polyamines and amino acid starvation in rabbit reticulocyte lysate. Gross M, et al. **J Biol Chem** 1989 Dec 25; 264(36):21879–84

The solution structure of the Escherichia coli initiator tRNA and its interactions with initiation factor 2 and the ribosomal 30 S subunit. Wakao H, et al. **J Biol Chem** 1989 Dec 5;264(34):20363–71

The alpha subunit of eucaryotic initiation factor 2 is phosphorylated in mengovirus-infected mouse L cells. DeStefano J, et al. **J Virol** 1990 Sep;64(9):4445–53

Inhibition of translation in cells infected with a poliovirus 2Apro mutant correlates with phosphorylation of the alpha subunit of eucaryotic initiation factor 2. O'Neill RE, et al. **J Virol** 1989 Dec;63(12):5069–75

PHARMACOLOGY

Selection of the 5'-proximal translation initiation site is influenced by mRNA and eIF-2 concentrations. Dasso MC, et al. **Eur J Biochem** 1990 Jan 26;187(2):361–71

Relief of cytotoxicity and enhancement of interferon inducer activity of double-stranded RNA by eukaryotic initiation

factor 2. Harary R, et al. **Virology** 1990 Feb;174(2):494–503

PHYSIOLOGY

The Met-tRNA binding factor eIF-2 coordinates the mRNA recognition by cap binding proteins. van Heugten HA, et al. **Mol Biol Rep** 1990;14(2–3):63

EIGENMANNIA see ELECTRIC FISH

EIMERIA

ANALYSIS

Identification of sporozoite surface proteins and antigens of Eimeria nieschulzi (Apicomplexa). Tilley M, et al. **J Protozool** 1990 Mar–Apr;37(2):86–90

A family of glycolipid linked proteins in Eimeria tenella. Gurnett A, et al. **Mol Biochem Parasitol** 1990 Jun; 41(2):177–85

Characterization of coccidial proteins by two-dimensional sodium dodecyl sulphate-polyacrylamide gel electrophoresis. Sutton CA, et al. **Parasitology** 1989 Oct; 99 Pt 2:175–87

CLASSIFICATION

Some remarks on the prevalence and species composition of hare coccidia. Pakandl M. **Folia Parasitol (Praha)** 1990; 37(1):35–42

Three new species of Eimeria (Apicomplexa: Eimeriidae) from Apalone spinifera pallidus (Testudines: Trionychidae) in Texas, with a redescription of E. amydae. McAllister CT, et al. **J Parasitol** 1990 Aug;76(4):481–6

Description of the oocysts of Eimeria paludosa (Apicomplexa: Eimeriidae) from Fulica americana (Aves: Gruiformes), with comments on synonyms of eimerian species from related birds. McAllister CT, et al. **J Parasitol** 1990 Feb;76(1):27–9

DRUG EFFECTS

CP-84,657, a potent polyether anticoccidial related to portmicin and produced by Actinomadura sp. Dirlam JP, et al. **J Antibiot (Tokyo)** 1990 Jun;43(6):668–79

Anti-coccidial activity of 2-picoline, 6-amino-4-nitro-, 1-oxide. Folz SD, et al. **J Parasitol** 1989 Oct;75(5):696–701

Reduction in cell entry of Eimeria tenella (Coccidia) sporozoites by protease inhibitors, and partial characterization of proteolytic activity associated with intact sporozoites and merozoites. Fuller AL, et al. **J Parasitol** 1990 Aug;76(4):464–7

Possible mode of action of toltrazuril: studies on two Eimeria species and mammalian and Ascaris suum enzymes. Harder A, et al. **Parasitol Res** 1989;76(1):8–12

Eimeria tenella, E. acervulina and E. maxima: studies on the development of resistance to diclazuril and other anticoccidial drugs in the chicken. Chapman HD. **Parasitology** 1989 Oct;99 Pt 2:189–92

Effect of lasalocid on the development of Eimeria tenella in chicken embryos. Ball SJ, et al. **Vet Parasitol** 1990 Jul; 36(3–4):337–41

ENZYMOLOGY

Identification of Eimeria brunetti using glucose phosphate isomerase and lactate dehydrogenase. Nakamura T, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):859–60

GENETICS

Eimeria acervulina: cloning of a cDNA encoding an immunogenic region of several related merozoite surface and rhoptry proteins. Jenkins MC, et al. **Exp Parasitol** 1990 Apr;70(3):353–62

Regions of an Eimeria tenella antigen contain sequences which are conserved in circumsporozoite proteins from Plasmodium spp. and which are related to the thrombospondin gene family. Clarke LE, et al. **Mol Biochem Parasitol** 1990 Jun;41(2):269–79

A molecular karyotype of Eimeria tenella as revealed by contour-clamped homogeneous electric field gel electrophoresis. Shirley MW, et al. **Mol Biochem Parasitol** 1990 Jan 15;38(2):169–73

GROWTH & DEVELOPMENT

In situ enzyme-linked immunosorbent assay to quantitate in vitro development of Eimeria tenella. Olson JA. **Antimicrob Agents Chemother** 1990 Jul;34(7):1435–9

Observations on the endogenous stages of Eimeria crandallis in domestic lambs (Ovis aries). Gregory MW, et al. **Int J Parasitol** 1989 Dec;19(8):907–14

Endogenous stages of Eimeria arvicanthi infecting the field rat Arvicanthis niloticus niloticus from Egypt. Abdel-Ghaffar F, et al. **J Egypt Soc Parasitol** 1990 Jun; 20(1):281–7

Improved techniques for the in vitro cultivation of Eimeria tenella in primary chick kidney cells. Hofmann J, et al. **Parasitol Res** 1990;76(6):479–86

A study of the life cycle of Eimeria praecox, Johnson 1930. Salisch H. **Zentralbl Veterinarmed [B]** 1990 Jul;37(5):363–8

IMMUNOLOGY

Avian eimeria: invasion in foreign host birds and generation of partial immunity against coccidiosis. Augustine PC, et al. **Avian Dis** 1990 Jan–Mar;34(1):196–202

Eimeria tenella-specific chicken T-cell clones reactive to an internal image anti-idiotypic antibody: correlation between biological activities and protective cell-mediated immunity. Bhogal BS. **Immunol Rev** 1989 Dec;112:5–26 (109 ref.)

Passive immunization of chickens against Eimeria maxima infection with a monoclonal antibody developed against a gametocyte antigen. Wallach M, et al. **Infect Immun** 1990 Feb;58(2):557–62

Identification and characterization of a target antigen of a monoclonal antibody directed against Eimeria tenella merozoites. Ko C, et al. **Mol Biochem Parasitol** 1990 Jun; 41(1):53–63

Genetically engineered antigen confers partial protection against avian coccidial parasites. Danforth HD, et al. **Poult Sci** 1989 Dec;68(12):1643–52

Vaccination of chickens with recombinant E. tenella antigen alone or in combination with a subclinical exposure induces cross protective immunity against coccidiosis. Bhogal BS, et al. **Prog Clin Biol Res** 1989;307:131–46

Application of a novel recombinant Eimeria tenella antigen in a vaccine to protect broiler chickens from coccidiosis. Miller GA, et al. **Prog Clin Biol Res** 1989;307:117–30

In vitro interactions between murine macrophages and Eimeria falciformis sporozoites. Bekhti K, et al. **Res Immunol** 1989 Sep;140(7):697–709

The use of an enzyme-linked immunosorbent assay for estimation of the immune status of chickens artificially immunized against coccidiosis. Onaga H, et al. **Vet Parasitol** 1989 Oct;33(3–4):199–205

ISOLATION & PURIFICATION

Coccidia of Brazilian mammals: Eimeria corticulata n. sp. (Apicomplexa: Eimeriidae) from the anteater Tamandua tetradactyla (Xenarthra: Myrmecophagidae) and Eimeria zygodontomyis n. sp. from the cane mouse Zygodontomys lasiurus (Rodentia: Cricetidae). Lainson R, et al. **J Protozool** 1990 Jan–Feb;37(1):51–4

Extraintestinal stages of Eimeria bovis in calves and attempts to induce relapse of clinical disease. Lindsay DS, et al. **Vet Parasitol** 1990 May;36(1–2):1–9

METABOLISM

Demonstration of actin in sporozoites of the protozoon Eimeria. Baines I, et al. **Cell Biol Int Rep** 1989 Jul; 13(7):639–41

Secretion of trials during gliding motility of Eimeria nieschulzi (Apicomplexa, Coccidia) sporozoites visualized by a monoclonal antibody and immuno-gold-silver enhancement. Entzeroth R, et al. **Parasitol Res** 1989; 76(2):174–5

MICROBIOLOGY

Identification of virus-like particles in Eimeria stiedae. Revets H, et al. **Mol Biochem Parasitol** 1989 Oct; 36(3):209–15

PATHOGENICITY

Variability of prepatent period in Japanese Eimeria tenella strains. Saitoh Y, et al. **Nippon Juigaku Zasshi** 1989 Aug; 51(4):835–7

Selection and characterization of a precocious line of Eimeria intestinalis, an intestinal rabbit coccidium. Licois D, et al. **Parasitol Res** 1990;76(3):192–8

PHYSIOLOGY

Transfer of extraintestinal stages of Eimeria vermiformis in the mouse. Ball SJ, et al. **J Parasitol** 1990 Jun;76(3):424–5

EIMERIA INFECTIONS see COCCIDIOSIS

EISENMENGER COMPLEX

Use of pulmonary artery catheterization in parturients with Eisenmenger's syndrome [letter] Schwalbe SS, et al. **Anesth Analg** 1990 Oct;71(4):442–3

COMPLICATIONS

Eisenmenger's syndrome complicating pregnancy. Rao UR, et al. **J Indian Med Assoc** 1989 Nov;87(11):266–8

DIAGNOSIS

Eisenmenger's complex with widespread thrombotic manifestations [clinical conference] Fishman AP, et al. **Am Heart J** 1968 Feb;75(2):251–9

The second heart sound in Eisenmenger's [letter] Rao RA. **J Assoc Physicians India** 1989 Dec;37(12):800

DRUG THERAPY

The use of nifedipine in patients with Eisenmenger's syndrome complicating patency of the arterial duct. Wong CK, et al. **Int J Cardiol** 1989 Nov;25(2):173–8

PHYSIOPATHOLOGY

Eisenmenger's: a case study and review of the syndrome and complex. Rutledge JM, et al. **Am J Cardiovasc Pathol** 1989; 2(4):285–94 (35 ref.)

Anesthetic management of a parturient with Eisenmenger's syndrome. Pollack KL, et al. **Anesth Analg** 1990 Feb; 70(2):212–5

Impairment of pulmonary endothelium-dependent relaxation in patients with Eisenmenger's syndrome. Dinh Xuan AT, et al. **Br J Pharmacol** 1990 Jan;99(1):9–10

[Disorders of microcirculation and myocardial function in primary pulmonary hypertension and Eisenmenger's syndrome] Konopleva LF, et al. **Vrach Delo** 1989 Aug; (8):9–11 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

Patent ductus arteriosus with Eisenmenger's syndrome detected by first-pass study. Kurata C, et al. **Clin Nucl Med** 1989 Nov;14(11):834–7

SURGERY

Single lung transplantation and closure of patent ductus arteriosus for Eisenmenger's syndrome. Toronto Lung Transplant Group. Fremes SE, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):1–5

Heart-lung transplantation: the initial Arizona experience. Rhenman B, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 2):922–7

Heart-lung transplantation—Harefield experience. Yacoub MH, et al. **Jpn J Surg** 1990 May;20(3):247–51

[Clinical applications of the heart-lung transplant. Clinical results 5 years after the start of the program at Papworth] Fabbri A, et al. **G Ital Cardiol** 1989 Nov;19(11):989–98 (Eng. Abstr.) **(Ita)**

[Surgical management of open lung biopsy in Eizenmenger's syndrome] Yamaki S, et al. **Kyobu Geka** 1990 Feb; 43(2):114–6 (Eng. Abstr.) **(Jpn)**

EISENMENGER SYNDROME see EISENMENGER COMPLEX

EJACULATION

Improved motility of retrograde ejaculates by adding donor seminal plasma. Check JH, et al. **Arch Androl** 1990; 25(1):41–3

Pregnancy after brompheniramine treatment of a diabetic with incomplete emission failure. Schill WB. **Arch Androl** 1990;25(1):101–4

Induced emission of sperm utilizing electrical stimulation of the seminal vesicles and vas deferens. Bensman A, et al. **Arch Phys Med Rehabil** 1966 Jul;47(7):436–43

Electroejaculatory stimulation of a quadriplegic man resulting in pregnancy. Hirsch IH, et al. **Arch Phys Med Rehabil** 1990 Jan;71(1):54–7

Male multiple orgasms: a descriptive study. Dunn ME, et al. **Arch Sex Behav** 1989 Oct;18(5):377–87

The role of anxiety in premature ejaculation: a psychophysiological model. Strassberg DS, et al. **Arch Sex Behav** 1990 Jun;19(3):251–7

Clinical observations in vibratory stimulation of the penis of men with spinal cord injury. Szasz G, et al. **Arch Sex Behav** 1989 Dec;18(6):461–74

Treatment of infertility due to retrograde ejaculation: a simple, cost-effective method. Shangold GA, et al. **Fertil Steril** 1990 Jul;54(1):175–7

Erectile and ejaculatory function of males with spinal cord injury. Slot O, et al. **Int Disabil Stud** 1989 Apr-Jun; 11(2):75–7

Idiopathic anejaculation treated by electroejaculation. Stewart DE, et al. **Int J Psychiatry Med** 1989;19(3):263–8

Retrograde ejaculation—pregnancy following artificial insemination. Heasley RN, et al. **Ir Med J** 1989 Sep; 82(3):128–9

Teratospermic and normospermic domestic cats: ejaculate traits, pituitary-gonadal hormones, and improvement of spermatozoal motility and morphology after swim-up processing. Howard JG, et al. **J Androl** 1990 May-Jun; 11(3):204–15

Replication requirements and number of ejaculates needed for assessing treatment effects on sperm output and seminal characteristics of electroejaculated Holstein bulls. Berndtson WE. **J Anim Sci** 1990 Mar;68(3):709–18

Effects of sexual stimulation, with and without ejaculation, on serum concentrations of LH, FSH, testosterone, cortisol and prolactin in stallions. Rabb MH, et al. **J Anim Sci** 1989 Oct;67(10):2724–9

Effects of male pre-ejaculatory vocalizations on female receptive behavior in the rat (Rattus norvegicus). White NR, et al. **J Comp Psychol** 1990 Jun;104(2):140–6

Receptivity of the female rat (Rattus norvegicus) after male devocalization: a ventral perspective. White NR, et al. **J Comp Psychol** 1990 Jun;104(2):147–51

Combined electroejaculation and in vitro fertilization in the evaluation and treatment of anejaculatory infertility. Randolph JF Jr, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):58–62

Nerve-sparing retroperitoneal lymphadenectomy with preservation of ejaculation. Donohue JP, et al. **J Urol** 1990 Aug;144(2 Pt 1):287–91; discussion 291–2

Ejaculate-hormonal traits in the leopard cat (Felis bengalensis) and sperm function as measured by in vitro penetration of zona-free hamster ova and zona-intact domestic cat oocytes. Howard J, et al. **Mol Reprod Dev** 1990 Jun;26(2):163–74

Collection and quality of rhesus monkey semen. Lanzendorf SE, et al. **Mol Reprod Dev** 1990 Jan;25(1):61–6

Nifedipine pretreatment for autonomic dysreflexia during electroejaculation. Steinberger RE, et al. **Urology** 1990 Sep; 36(3):228–31

[Cystic prostatic utricle in adults. Apropos of 3 cases] Six A, et al. **Ann Urol (Paris)** 1989;23(6):499–503 (27 ref.) (Eng. Abstr.) (Fre)

[Proteolytic activity of human ejaculate] Evseev LP, et al. **Lab Delo** 1990;(3):50–2 (Eng. Abstr.) (Rus)

[Meiotic chromosomes of the spermatocytes ejaculated by bulls] Kuznetsova TV, et al. **Tsitologiia** 1990;32(2):181–7 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Effect of chemotherapy on elevated ejaculation time and deteriorated semen characteristics consequent to bovine trypanosomiasis. Sekoni VO, et al. **Br Vet J** 1990 Jul–Aug; 146(4):368–73

The effects of intracranial administration of the dopamine agonist apomorphine on penile reflexes and seminal emission in the rat. Pehek EA, et al. **Brain Res** 1989 Oct 23;500(1–2):325–32

Quinelorane (LY163502), a D2 dopamine receptor agonist, facilitates seminal emission, but inhibits penile erection in the rat. Bitran D, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):453–8

Effects of intrathecal and systemic administration of buspirone on genital reflexes and mating behavior in male rats. Mathes CW, et al. **Pharmacol Biochem Behav** 1990 May;36(1):63–8

Effects of intrathecal administration of 8-OH-DPAT on genital reflexes and mating behavior in male rats. Lee RL, et al. **Physiol Behav** 1990 Apr;47(4):665–9

Intracavernous medication for treatment of premature ejaculation. Fein RL. **Urology** 1990 Apr;35(4):301–3

[Retrograde ejaculation as a cause of aspermia following retroperitoneal lymph node excision and the effective use of alpha sympathomimetic drugs] Barth V. **Z Urol Nephrol** 1990 Mar;83(3):115–9 (Eng. Abstr.) (Ger)

PHYSIOLOGY

Ejaculation and its disorders. Yeates WK. **Arch Ital Urol Nefrol Androl** 1990 Mar;62(1):137–48 (22 ref.)

Electroejaculation in goats. Carter PD, et al. **Aust Vet J** 1990 Mar;67(3):91–3

Reinforcing properties of ejaculation in the male rat: role of opioids and dopamine. Agmo A, et al. **Behav Neurosci** 1990 Feb;104(1):177–82

Erection and ejaculation in man. Assessment of the electromyographic activity of the bulbocavernosus and ischiocavernosus muscles. Gerstenberg TC, et al. **Br J Urol** 1990 Apr;65(4):395–402

The identification of a brainstem site controlling spinal sexual reflexes in male rats. Marson L, et al. **Brain Res** 1990 May 7;515(1–2):303–8

Changes in accessory sex glands of stallions after sexual preparation and ejaculation. Weber JA, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1084–9

Trunkal myoclonus with spontaneous priapism and seminal ejaculation in Wilson's disease [letter] Nair KR, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):174

Predictors of success in electroejaculation of spinal cord injured men. Ohl DA, et al. **J Urol** 1989 Dec;142(6):1483–6

Electroejaculation in spinal cord injury patients: simplified new equipment and technique. Perkash I, et al. **J Urol** 1990 Feb;143(2):305–7

Can increase in frequency of ejaculation promote spermatogenesis? Skandhan KP. **Med Hypotheses** 1989 Oct; 30(2):81–2

The effects of the electroejaculation procedure on sperm motility. Linsenmeyer T, et al. **Paraplegia** 1989 Dec; 27(6):465–9

[Retrograde ejaculation following transurethral surgery for bladder neck sclerosis] Nelkov K, et al. **Khirurgiia (Sofiia)** 1989;42(6):53–6 (31 ref.) (Eng. Abstr.) (Bul)

[The function of the closure apparatus of the bladder in retrograde ejaculation in diabetics] Ibragimov AZ, et al. **Urol Nefrol (Mosk)** 1990 May–Jun;(3):65–8 (Eng. Abstr.) (Rus)

EJACULATORY DUCTS

Urogenital sinus–ejaculatory duct cyst: a case report with a proposed clinical classification and review of the literature. Mayersak JS. **J Urol** 1989 Nov;142(5):1330–2 (40 ref.)

Transrectal ultrasonography in disorders of the seminal vesicles and ejaculatory ducts. Carter SS, et al. **Urol Clin North Am** 1989 Nov;16(4):773–90 (102 ref.)

[Surgical ultrasonography of the seminal vesicles in andrologic pathology. Research in progress] Stasi G, et al. **Radiol Med (Torino)** 1989 Oct;78(4):358–62 (Eng. Abstr.) (Ita)

ABNORMALITIES

[Ectopic opening of the ureter into the ejaculatory duct. Use of ultrasound-directed vesiculography in the diagnosis of this type of malformation] Negrín Díaz A, et al. **Arch Esp Urol** 1989 Nov–Dec;42(9):925–7 (Eng. Abstr.) (Spa)

INNERVATION

Histochemical and immunohistochemical studies on intraepithelial nerve fibers in the ejaculatory duct of the monkey (Macaca fuscatus). Yokoyama R. **Kurume Med J** 1989;36(3):101–12

METABOLISM

[The protein of the ejaculatory bulb (PEB) in Drosophila melanogaster. 2. The organ specificity of its expression] Liudvig MZ, et al. **Ontogenez** 1990 Mar–Apr;21(2):133–7 (Eng. Abstr.) (Rus)

[The protein of the ejaculatory bulb (PEB) in Drosophila melanogaster. 1. Its stage specificity and sex dimorphism] Uspenskiĭ II, et al. **Ontogenez** 1990 Jan–Feb;21(1):47–51 (Eng. Abstr.) (Rus)

[The proteins of the ejaculatory bulbs in different species of Drosophila] Kopantseva MR, et al. **Zh Obshch Biol** 1990 Jan–Feb;51(1):125–40 (Eng. Abstr.) (Rus)

PATHOLOGY

Transrectal prostate ultrasonography as a diagnostic and therapeutic aid for ejaculatory duct obstruction. Belker AM, et al. **J Urol** 1990 Aug;144(2 Pt 1):356–8

PHYSIOLOGY

Gonadotropin-induced luminal formation in the seminiferous tubules and efferent ductules in young frogs: light and electron microscopic study. Kobayashi T, et al. **J Exp Zool** 1989 Dec;252(3):301–7

SURGERY

Nd:YAG coagulation of the verumontanum: an endoscopic attempt at sterilization. Gilbert PT, et al. **Lasers Surg Med** 1990;10(2):194–200

EJECTION SEATS see **AIRCRAFT**

EKBOM'S SYNDROME see **RESTLESS LEGS**

EKG see **ELECTROCARDIOGRAPHY**

ELAEOPHORIASIS see under **FILARIASIS**

ELAPID VENOMS

Kappa-neurotoxins: heterodimer formation between different neuronal nicotinic receptor antagonists. Chiappinelli VA, et al. **Biochemistry** 1989 Oct 17;28(21):8543–7

The N-terminal amino group essential for the biological activity of notexin from Notechis scutatus scutatus venom. Yang CC, et al. **Biochim Biophys Acta** 1990 Aug 1; 1040(1):35–42

The complete amino acid sequence of a post-synaptic neurotoxin isolated from the venom of the Australian death adder snake Acanthophis antarcticus. Sheumack DD, et al. **Comp Biochem Physiol [B]** 1990;95(1):45–50

ADVERSE EFFECTS

Thrombocytopenia after snake envenomation [letter; comment] White J. **Med J Aust** 1990 Apr 16;152(8):445–6 Comment on: Med J Aust 1989 Dec 4–18;151(11–12):627–8.

ANALYSIS

Amino acid sequence of a neutral phospholipase A2 (III) in the venom of Bungarus fasciatus. Liu CS, et al. **Int J Pept Protein Res** 1989 Oct;34(4):257–61

State of functionally essential Trp-29 in snake venom neurotoxins: a proton nuclear magnetic resonance study. Endo T, et al. **J Protein Chem** 1989 Aug;8(4):583–8

cDNA deduced amino-acid sequence of a new phospholipase from Bungarus multicinctus. Danse JM, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4610

Effects of chemical modifications of Pa-11, a phospholipase A2 from the venom of Australian king brown snake (Pseudechis australis), on its biological activities. Takasaki C, et al. **Toxicon** 1990;28(1):107–17

Purification and properties of several phospholipases A2 from the venom of Australian king brown snake (Pseudechis australis). Takasaki C, et al. **Toxicon** 1990;28(3):319–27

Amino acid sequences of eight phospholipases A2 from the venom of Australian king brown snake, Pseudechis australis. Takasaki C, et al. **Toxicon** 1990;28(3):329–39

IMMUNOLOGY

A monoclonal antibody recognizing a conserved epitope in a group of phospholipases A2. Mollier P, et al. **Mol Immunol** 1990 Jan;27(1):7–15

ISOLATION & PURIFICATION

Charybdotoxin is a new member of the K+ channel toxin family that includes dendrotoxin I and mast cell degranulating peptide. Schweitz H, et al. **Biochemistry** 1989 Dec 12;28(25):9708–14

On the purification of notexin. Isolation of a single amino acid variant from the venom of Notechis scutatus scutatus. Chwetzoff S, et al. **FEBS Lett** 1990 Feb 26;261(2):226–30

Crystals of fasciculin 2 from green mamba snake venom. Preparation and preliminary x-ray analysis. le Du MH, et al. **J Biol Chem** 1989 Dec 15;264(35):21401–2

METABOLISM

Taipoxin-binding protein on synaptic membranes: identification by affinity labeling. Tzeng MC, et al. **Biochem Biophys Res Commun** 1989 Dec 15;165(2):689–94

Tryptophan 110, a residue involved in the toxic activity but not in the enzymatic activity of notexin. Mollier P, et al. **Eur J Biochem** 1989 Nov 6;185(2):263–70

Characterisation of binding sites for delta-dendrotoxin in guinea-pig synaptosomes: relationship to acceptors for the K+-channel probe alpha-dendrotoxin. Muniz ZM, et al. **J Neurochem** 1990 Jan;54(1):343–6

Rat brain dendrotoxin receptors associated with voltage-gated potassium channels: dendrotoxin binding and receptor solubilization. Sorensen RG, et al. **Mol Pharmacol** 1989 Nov;36(5):689–98

PHARMACOLOGY

Neurochemical and behavioral correlates of unilateral striatal acetylcholinesterase inhibition by fasciculin in rats. Bolioli B, et al. **Brain Res** 1989 Dec 11;504(1):1–6

A comparative study of the biological properties of krait (genus Bungarus) venoms. Tan NH, et al. **Comp Biochem Physiol [C]** 1990;95(1):105–9

Expression of myosin isoforms during notexin-induced regeneration of rat soleus muscles. Whalen RG, et al. **Dev Biol** 1990 Sep;141(1):24–40

Regional expression of a MCD-peptide and dendrotoxin I-sensitive voltage-dependent potassium channel in rat brain. Séquier JM, et al. **FEBS Lett** 1990 Apr 9;263(1):163–5

Dendrotoxin and charybdotoxin increase the cytosolic concentration of free Ca2+ in cerebrocortical synaptosomes: an effect not shared by apamin. Tibbs GR, et al. **FEBS Lett** 1989 Sep 11;255(1):159–62

Actions of dendrotoxin on K+ channels and neuromuscular transmission in Drosophila melanogaster, and its effects in synergy with K+ channel-specific drugs and mutations. Wu CF, et al. **J Exp Biol** 1989 Nov;147:21–41

Depletion of the Ca(++)-dependent releasable pool of glutamate in striatal synaptosomes associated with dendrotoxin-induced potassium channel blockade. Barbeito L, et al. **J Neural Transm Gen Sect** 1990;80(3):167–79

A K+ channel in Xenopus nerve fibres selectively blocked by bee and snake toxins: binding and voltage-clamp experiments. Bräu ME, et al. **J Physiol (Lond)** 1990 Jan; 420:365–85

Subconductance behavior in a maxi Ca2(+)-activated K+ channel induced by dendrotoxin-I. Lucchesi K, et al. **Neuron** 1990 Jan;4(1):141–8

Leukotriene and prostaglandin production in rat brain synaptosomes treated with phospholipase A2 neurotoxins and enzymes. Yates SL, et al. **Prostaglandins** 1990 Apr; 39(4):425–38

Attenuation of serotonin-suppressed [3H]acetylcholine release by tetrahydroaminoacridine and dendrotoxin: interaction with minaprine binding site. Muramatsu M, et al. **Res Commun Chem Pathol Pharmacol** 1990 May; 68(2):131–42

Effect of a phospholipase A2 with cardiotoxin-like properties, from Bungarus fasciatus snake venom, on calcium-modulated potassium currents. Gong QH, et al. **Toxicon** 1989;27(12):1339–49

Effects of notexin on neuromuscular transmission in the guinea pig vas deferens. Harris JB, et al. **Toxicon** 1990; 28(4):393–401

POISONING

Envenoming by the common krait (Bungarus caeruleus) and Sri Lankan cobra (Naja naja naja): efficacy and complications of therapy with Haffkine antivenom. Theakston RD, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):301–8

TOXICITY

The assessment of muscle fibre loss after the injection of the venom of Notechis scutatus (Australian tiger snake). Preston SA, et al. **Toxicon** 1990;28(2):201–14

The lethal and biochemical properties of Bungarus candidus (Malayan krait) venom and venom fractions. Tan NH, et al. **Toxicon** 1989;27(9):1065–70

ELASTASE see **PANCREATOPEPTIDASE**

ELASTIC STOCKINGS see **BANDAGES**

ELASTIC TISSUE

Elastoïdosis with cysts and comedones (Favre and Racouchot). Goeteyn M, et al. **Dermatologica** 1990; 180(3):194

[Ulcerative and pseudotumoral perforating elastoma of the perineum. Diagnostic discussion] Hesse S, et al. **Ann Dermatol Venereol** 1990;117(5):371–5 (Fre)

ANATOMY & HISTOLOGY

Ultrastructural and cytochemical study of elastic fibers in the ventral aorta of a teleost, Anguilla japonica. Isokawa K, et al. **Anat Rec** 1990 Jan;226(1):18–26

Elastic and collagenous fibers in the temporomandibular joint capsule of the rabbit and their functional relevance. Savalle WP, et al. **Anat Rec** 1990 Jun;227(2):159–66

The elastic tissue of Bruch's membrane. Connections to choroidal elastic tissue and the ciliary epithelium of the rabbit and human eyes. Korte GE, et al. **Arch Ophthalmol** 1989 Nov;107(11):1654–8

Anatomical variation of orthotropic elastic moduli of the proximal human tibia. Ashman RB, et al. **J Biomech** 1989; 22(8–9):895–900

Morphometric analysis of elastic fibers in human skin lymphatic capillaries. Gerli R, et al. **Lymphology** 1989 Dec; 22(4):167–72

CYTOLOGY

Abnormal accumulation of elastin-associated microfibrils during elastolysis in the arterial wall. Katsuda S, et al. **Exp Mol Pathol** 1990 Feb;52(1):13–24

A subepithelial elastic lamina in the palpebral conjunctiva of monkeys. Oduntan AO, et al. **J Anat** 1989 Apr; 163:165–72

The application of Miller's elastic stain to glycol methacrylate tissue sections. Castro MD. **Stain Technol** 1989 Sep; 64(5):233–8

[Histological evaluation of the elements of elastic fibers of the rabbit skin after administration of 30% elastin preparation] Barcew-Wiszniewska B, et al. **Przegl Dermatol** 1989 Mar–Apr;76(2):115–22 (Eng. Abstr.) **(Pol)**

DRUG EFFECTS

An experimental study on the effects of elastase, bleomycin and infection on the growth and tensile strength of elastic tissue in rabbit fetal membranes. Chimura T, et al. **Asia Oceania J Obstet Gynaecol** 1989 Sep;15(3):307–12

EMBRYOLOGY

Impaired elastic matrix development in the great arteries after ablation of the cardiac neural crest. Rosenquist TH, et al. **Anat Rec** 1990 Mar;226(3):347–59

Elastogenic cells in the developing cardiovascular system. Smooth muscle, nonmuscle, and cardiac neural crest. Rosenquist TH, et al. **Ann N Y Acad Sci** 1990;588:106–19

Elastogenesis in the wall of the human thoracic aorta. Horká J, et al. **Folia Morphol (Praha)** 1990;38(1):38–43

METABOLISM

Differential distribution and ultrastructural staining of oxytalan and elastic fibers in the periodontal ligament of Alligator mississippiensis. Takagi M, et al. **Anat Rec** 1989 Dec;225(4):279–87

Aortic media explants. Cell proliferation and production of mucopolysaccharides, collagen, and elastic tissue. Jarmolych J, et al. **Exp Mol Pathol** 1968 Oct;9(2):171–88

PATHOLOGY

Elastosis in meningioma. Sarasa JL, et al. **Acta Neuropathol (Berl)** 1990;79(4):461–3

Elastic tissue changes in generalized granuloma annulare. Friedman-Birnbaum R, et al. **Am J Dermatopathol** 1989 Oct;11(5):429–33

Photosensitive annular elastolytic giant cell granuloma with cutaneous amyloidosis. Lee YS, et al. **Am J Dermatopathol** 1989 Oct;11(5):443–50

Intraluminal fibrosis and elastic fiber degradation lead to lung remodeling in pulmonary Langerhans cell granulomatosis (histiocytosis X). Fukuda Y, et al. **Am J Pathol** 1990 Aug; 137(2):415–24

Changes in lung elastic fiber structure and concentration associated with hyperoxic exposure in the developing rat lung. Bruce MC, et al. **Am Rev Respir Dis** 1989 Oct; 140(4):1067–74

Elastosis in granular cell tumours: prevalence and distribution. McMahon JN, et al. **Histopathology** 1990 Jan; 16(1):37–41

Elastic fibres in retinal detachment. Azad R. **Indian J Ophthalmol** 1990 Apr–Jun;38(2):74–7

Concomitant unilateral idiopathic atrophoderma of Pasini and Pierini (IAPP) and morphea. Observations supporting IAPP as a variant of morphea. Murphy PK, et al. **Int J Dermatol** 1990 May;29(4):281–3

Postinflammatory elastolysis and cutis laxa. A case report. Lewis PG, et al. **J Am Acad Dermatol** 1990 Jan;22(1):40–8

Mid dermal elastolysis. Rudolph RI. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):203–6

Amyloid elastosis: analysis of the role of amyloid P component. Sepp N, et al. **J Am Acad Dermatol** 1990 Jan; 22(1):27–34

Elastophagocytosis: a non-specific reaction pattern associated with inflammatory processes in sun-protected skin. Barnhill RL, et al. **J Cutan Pathol** 1989 Aug; 16(4):199–202

Electron microscopic study of the colloid-like substance in solar elastosis. Matsuta M, et al. **J Dermatol** 1989 Jun; 16(3):191–5

The presence of a type IV collagen skeleton associated with periductal elastosis in breast cancer. Verhoeven D, et al. **J Histochem Cytochem** 1990 Feb;38(2):245–55

Elastic fibres in patients with systemic sclerosis. A morphological study. Rustin MH, et al. **Virchows Arch [A]** 1989;416(2):115–20

[Maturation and aging of elastic fibers] Stadler R. **Z Hautkr** 1989 Nov 15;64(11):952–6, 961 (23 ref.) (Eng. Abstr.) **(Ger)**

[Elastosis perforans serpiginosa associated with Down's syndrome and sex-linked ichthyosis. Treatment with 13-cis-retinoic acid] Diaz F, et al. **Med Cutan Ibero Lat Am** 1989;17(4):209–14 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Spontaneous rupture of the internal elastic lamina in the rat: the manifestation of a genetically determined factor which may be linked to vascular fragility. Capdeville M, et al. **Blood Vessels** 1989;26(4):197–212

Energy dissipation in the elastic recoil of leg tendons of Larus ridibundus. Olmos M, et al. **Gegenbaurs Morphol Jahrb** 1989;135(5):775–8

Incorporation of muscle architecture into the muscle length–tension relationship. Kaufman KR, et al. **J Biomech** 1989;22(8–9):943–8

Skin changes in menopause. Bolognia JL, et al. **Maturitas** 1989 Dec;11(4):295–304

[Mechanical properties of the bone tissue of the femur head] Shargorodskii VS, et al. **Ortop Travmatol Protez** 1989 Oct; (10):3–7 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Deposition and remodelling of elastic fibres in chronic hepatitis. Bedossa P, et al. **Virchows Arch [A]** 1990; 417(2):159–62

ULTRASTRUCTURE

Development of elastic-system fibers in human vocal cords. Bonnaure-Mallet M, et al. **Acta Anat (Basel)** 1989; 136(2):125–8

A fibrillar elastic apparatus around human lymph capillaries. Gerli R, et al. **Anat Embryol (Berl)** 1990;181(3):281–6

The tissue distribution of microfibrils reacting with a monospecific antibody to MAGP, the major glycoprotein antigen of elastin-associated microfibrils. Kumaratilake JS, et al. **Eur J Cell Biol** 1989 Oct;50(1):117–27

Study of the elastic skeleton of intracranial arteries in animal and human vessels by scanning electron microscopy. Yamazoe N, et al. **Stroke** 1990 May;21(5):765–70

Increase of elastic fibres in muscle spindles of rats following single or repeated denervation with or without reinnervation. Dieler R, et al. **Virchows Arch [A]** 1990; 417(3):213–21

[Electron microscopic study of the choroidal melanocytes and elastic fibers] Funata M, et al. **Nippon Ganka Gakkai Zasshi** 1990 Apr;94(4):352–8 (Eng. Abstr.) **(Jpn)**

ELASTICA see RUBBER

ELASTICITY

Varying elastance concept may explain coronary systolic flow impediment. Krams R, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1471–9

Deviatoric and hydrostatic mode interaction in hard and soft tissue. Cowin SC. **J Biomech** 1990;23(1):11–4

"Sonoelasticity" images derived from ultrasound signals in mechanically vibrated tissues. Lerner RM, et al. **Ultrasound Med Biol** 1990;16(3):231–9

Tissue response to mechanical vibrations for "sonoelasticity imaging". Parker KJ, et al. **Ultrasound Med Biol** 1990; 16(3):241–6

[Arterial compliance during exertion in hypertensive and normal subjects of the same age] Siché JP, et al. **Arch Mal Coeur** 1989 Jul;82(7):1077–82 (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

[Neuromediators and vasodilation. Arterial compliance and neuromediators] Lévy M, et al. **Therapie** 1990 Mar–Apr; 45 Suppl 2:215–8 **(Fre)**

ELASTIN

Some factors affecting properties of elastin-fibrin biomaterial. Barbié C, et al. **Biomaterials** 1989 Sep;10(7):445–8

Depsipeptide analogues of elastin repeating sequences: synthesis. Arad O, et al. **Biopolymers** 1990 Oct–Nov; 29(12–13):1633–49

Depsipeptide analogues of elastin repeating sequences: conformational analysis. Arad O, et al. **Biopolymers** 1990 Oct–Nov;29(12–13):1652–68

The effects of hydration on the dynamic mechanical properties of elastin. Lillie MA, et al. **Biopolymers** 1990 Jul–Aug 5;29(8–9):1147–60

A molecular dynamics investigation of the elastomeric restoring force in elastin. Wasserman ZR, et al. **Biopolymers** 1990 Oct–Nov;29(12–13):1613–31

Influence of solvent composition on the mechanical properties of arterial elastin. Winlove CP, et al. **Biopolymers** 1990 Mar–Apr;29(4–5):729–35

Electron microscopic evidence for elastin-like supramolecular organization in synthetic polytripeptides. Daga Gordini D, et al. **Connect Tissue Res** 1989;19(1):27–34

Collagens and elastin: structure and interactions. Tanzer ML. **Curr Opin Cell Biol** 1989 Oct;1(5):968–73 (29 ref.)

Repair of experimental arteriotomy in rabbit aorta using a new resorbable elastin-fibrin biomaterial. Lefebvre F, et al. **J Biomed Mater Res** 1989 Dec;23(12):1423–32

ADMINISTRATION & DOSAGE

[Histological evaluation of the elements of elastic fibers of the rabbit skin after administration of 30% elastin preparation] Barcew-Wiszniewska B, et al. **Przegl Dermatol** 1989 Mar–Apr;76(2):115–22 (Eng. Abstr.) **(Pol)**

ANALOGS & DERIVATIVES

Immunohistochemical detection of intracellular tropoelastin: an assay for elastin production and its use in the detection and assessment of elastogenic factors. Grosso LE, et al. **Am J Respir Cell Mol Biol** 1990 Jul;3(1):45–9

Tropoelastin heterogeneity: implications for protein function and disease. Parks WC, et al. **Am J Respir Cell Mol Biol** 1990 May;2(5):399–406 (55 ref.)

Production of recombinant human tropoelastin: characterization and demonstration of immunologic and chemotactic activity. Indik Z, et al. **Arch Biochem Biophys** 1990 Jul;280(1):80–6

Synthetic fragments and analogues of elastin. I. The synthesis. Guantieri V, et al. **Biopolymers** 1990 Mar–Apr; 29(4–5):845–54

Synthetic fragments and analogues of elastin. II. Conformational studies. Tamburro AM, et al. **Biopolymers** 1990 Mar–Apr;29(4–5):855–70

Ultrastructural immuno-localization of tropoelastin in the chick eye. Daga Gordini D, et al. **Cell Tissue Res** 1990 Apr;260(1):137–46

Chick tropoelastin isoforms. From the gene to the extracellular matrix. Pollock J, et al. **J Biol Chem** 1990 Mar 5;265(7):3697–702

ANALYSIS

The collagenous protein with elastin crosslinks from Descemet's membrane is not related to type VIII collagen. Davis PF, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):260–5

Isolation and characterization of new cross-linking amino acid "allodesmosine" from hydrolysate of elastin. Suyama K, et al. **Biochem Biophys Res Commun** 1990 Jul 31; 170(2):713–8

Dermal elastin and collagen in systemic sclerosis. Effect of D-penicillamine treatment. Pasquali Ronchetti I, et al. **Clin Exp Rheumatol** 1989 Jul–Aug;7(4):373–83

Characterization of elastin protein and mRNA from salmonid fish (Oncorhynchus kisutch). Chow M, et al. **Comp Biochem Physiol [B]** 1989;93(4):835–45

Ultrastructural immunocytochemical localization of elastin in normal human trabecular meshwork. Gong HY, et al. **Curr Eye Res** 1989 Oct;8(10):1071–82

The biochemical composition of hemodynamically stressed vascular tissue: the insoluble elastin of experimental arteriovenous fistulae. Davis PF, et al. **Exp Mol Pathol** 1989 Oct;51(2):103–10

Distribution of elastin and collagen in canine lung alveolar parenchyma. Oldmixon EH, et al. **J Appl Physiol** 1989 Nov; 67(5):1941–9

Alterations of elastic architecture in human aortic dissecting aneurysm. Nakashima Y, et al. **Lab Invest** 1990 Jun; 62(6):751–60

Characterization of the site dependency of normal canine arterial fluorescence. Garrand TJ, et al. **Lasers Surg Med** 1990;10(4):375–83

Morphometric analysis of reticular and elastin fibers in the cerebral arteries of patients with intracranial aneurysms. Chyatte D, et al. **Neurosurgery** 1990 Jun;26(6):939–43

The effect of ozone and simulated high altitude on murine lung elastin: quantitation by image analysis. Damji KS, et al. **Toxicol Ind Health** 1989 Dec;5(6):995–1003

Elastic fibres in patients with systemic sclerosis. A morphological study. Rustin MH, et al. **Virchows Arch [A]** 1989;416(2):115–20

[Characteristics of elastin from the wall of human large arteries during treatment with formaldehyde] Rebrova GA, et al. **Vopr Med Khim** 1990 Mar–Apr;36(2):71–5 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

The effect of 60% oxygen on air-space enlargement and cross-linked elastin synthesis in hamsters with elastase-induced emphysema. Cantor JO, et al. **Am Rev Respir Dis** 1990 Sep;142(3):668–73

Preferential inhibition of elastin synthesis by epidermal growth factor in chick aortic smooth muscle cells. Ichiro T, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):850–6

Factors affecting the production of insoluble elastin in aortic organ cultures. Johnson DJ, et al. **Connect Tissue Res** 1990; 24(3–4):277–88

Effect of age and IGF-I administration on elastin gene

expression in rat aorta. Foster JA, et al. **J Gerontol** 1990 Jul;45(4):B113–8

[The effect of a diet containing long-chain fatty acids on the formation of insoluble elastin in the rat aorta] Wimmerová J, et al.
Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl 1989;32(4):389–95 (Eng. Abstr.) (Cze)

BLOOD

[Elastolytic activity of the blood serum in post-traumatic osteomyelitis] Magomedov AM, et al. **Klin Khir** 1990; (1):68–9 (Rus)

GENETICS

Cosegregation of elastin-associated microfibrillar abnormalities with the Marfan phenotype in families. Godfrey M, et al. **Am J Hum Genet** 1990 Apr;46(4):652–60

Structure of the elastin gene and alternative splicing of elastin mRNA: implications for human disease. Indik Z, et al. **Am J Med Genet** 1989 Sep;34(1):81–90 (47 ref.)

Regional heterogeneity of elastin and collagen gene expression in intralobar arteries in response to hypoxic pulmonary hypertension as demonstrated by in situ hybridization. Prosser IW, et al. **Am J Pathol** 1989 Dec; 135(6):1073–88

The regulation of lung elastin synthesis. Foster JA, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):L13–23 (97 ref.)

Elastin gene expression in elastotic human breast cancers and epithelial cell lines. Krishnan R, et al. **Cancer Res** 1990 Apr 1;50(7):2164–71

Pulmonary fibroblasts: an in vitro model of emphysema. Regulation of elastin gene expression. Foster JA, et al. **J Biol Chem** 1990 Sep 15;265(26):15544–9

Deletion analyses of 5'-flanking region of the human elastin gene. Delineation of functional promoter and regulatory cis-elements. Kähäri VM, et al. **J Biol Chem** 1990 Jun 5; 265(16):9485–90

Regulation of elastin gene expression: evidence for functional promoter activity in the 5'-flanking region of the human gene. Fazio MJ, et al. **J Invest Dermatol** 1990 Feb; 94(2):191–6

Two polymorphisms for the human elastin gene. Kainulainen K, et al. **Nucleic Acids Res** 1990 May 25;18(10):3114

IMMUNOLOGY

Determination of anti-elastin peptide antibodies in normal and arteriosclerotic human sera by ELISA. Fulop T Jr, et al. **J Clin Lab Immunol** 1989 Oct;30(2):69–74

Peripheral necrosis of hind legs of rabbits immunized with elastin. Wysokinski WE. **Vasa Suppl** 1989;27:73–8

METABOLISM

Immunohistochemical detection of intracellular tropoelastin: an assay for elastin production and its use in the detection and assessment of elastogenic factors. Grosso LE, et al. **Am J Respir Cell Mol Biol** 1990 Jul;3(1):45–9

Inhibition of human leukocyte elastase bound to elastin: relative ineffectiveness and two mechanisms of inhibitory activity. Morrison HM, et al.
Am J Respir Cell Mol Biol 1990 Mar;2(3):263–9

Elastin metabolism during recovery from impaired crosslink formation. Tinker D, et al. **Arch Biochem Biophys** 1990 May 1;278(2):326–32

Transforming growth factor-beta 1 specifically localizes in elastin during synovial inflammation: an immunoelectron microscopic study. Heine UI, et al.
Arch Geschwulstforsch 1990;60(4):289–94

Collagen and elastin in the liver of rats intoxicated with mercuric chloride. Olczyk K, et al.
Arh Hig Rada Toksikol 1990 Mar;41(1):1–6

Elastolysis of kappa-elastin sub-fractions by pancreatic and leukocyte elastases. Boudjelthia AK, et al. **Biochem Int** 1990;21(1):145–53

Changes in collagen and elastin in rabbit right-ventricular pressure overload. Low RB, et al. **Biochem J** 1989 Nov 1;263(3):709–13

Susceptibility of baboon aorta elastin to proteolysis. Desfontaines L, et al. **Biol Chem Hoppe Seyler** 1990 May; 371(5):441–6

Alterations in elastin and collagen related to the mechanism of progressive pulmonary venous obstruction in a piglet model. A hemodynamic, ultrastructural, and biochemical study. LaBourene JI, et al. **Circ Res** 1990 Feb;66(2):438–56

Collagen and elastin metabolism in hypertensive pulmonary arteries of rats. Poiani GJ, et al. **Circ Res** 1990 Apr; 66(4):968–78

Sensitive ELISA for measuring elastin breakdown products in plasma. Dillon TJ, et al. **Clin Chem** 1990 Feb;36(2):392–3

Release of elastolytic activity from human monocytes and granulocytes in vitro by immune complex stimulation. Jensen HS, et al. **Clin Exp Rheumatol** 1990 Mar-Apr; 8(2):159–62

Abnormal accumulation of elastin-associated microfibrils during elastolysis in the arterial wall. Katsuda S, et al. **Exp Mol Pathol** 1990 Feb;52(1):13–24

Determination of desmosines in elastin-related skin disorders by isocratic high-performance liquid chromatography. Schwartz E, et al. **Exp Mol Pathol** 1990 Feb;52(1):63–8

Identification and signal transduction mechanism of elastin peptide receptor in human leukocytes. Varga Z, et al.
FEBS Lett 1989 Nov 20;258(1):5–8

Degradation of immobilized soluble elastin by tumor cells in culture: quantitation by ELISA. Caenazzo C, et al.
Int J Cancer 1990 Sep 15;46(3):552–8

Expression of proteolytic activity by cultures of Trichophyton rubrum. Apodaca G, et al.
J Med Vet Mycol 1990;28(2):159–71

Collagen types and matrix protein content in human abdominal aortic aneurysms. Rizzo RJ, et al.
J Vasc Surg 1989 Oct;10(4):365–73

Accumulation and regulation of elastin in the rat uterus. Sharrow L, et al. **Proc Soc Exp Biol Med** 1989 Nov; 192(2):121–6

Changes of insoluble elastin in the rat aorta depending on isolation method. Wimmerová J, et al.
Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove 1989;32(1):149–56

[The products of the enzymatic hydrolysis of casein and elastin by Bacillus subtilis protease] Kolchinskaia ID, et al. **Mikrobiol Zh** 1983 Sep-Oct;45(5):13–6 (Eng. Abstr.) (Rus)

PHARMACOLOGY

Elastin powder produced for cosmetic purposes does not affect formation of granulation tissue. Kanta J, et al.
Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove 1989;32(4):403–6

PHYSIOLOGY

Tumor cell interactions with elastin: implications for pulmonary metastasis. Yusa T, et al.
Am Rev Respir Dis 1989 Nov;140(5):1458–62

Dissociation of elastin and elastase-like activity of aorta from stroke in stroke-prone SHR. Kwan CY, et al.
Blood Vessels 1989;26(6):377–80

Extracellular matrix. Labat-Robert J, et al. **FEBS Lett** 1990 Aug 1;268(2):386–93 (94 ref.)

Altered phosphatidylinositol breakdown after K-elastin stimulation in PMNLs of elderly. Varga Z, et al.
Mech Ageing Dev 1990 Mar 1;52(1):61–70

[The effect of procyanidolic oligomers on mesenchymal cells in culture. II—Attachment of elastic fibers to the cells] Robert AM, et al. **Pathol Biol (Paris)** 1990 Jun;38(6):601–7 (Eng. Abstr.) (Fre)

[Adrenal regeneration hypertension—effects of vascular connective tissue protein and plasma corticosterone on hypertension in rats with adrenal regeneration hypertension] Nakada T, et al.
Nippon Hinyokika Gakkai Zasshi 1990 Jan;81(1):49–53 (Eng. Abstr.) (Jpn)

TOXICITY

No embryotoxicity of exogenous alpha-elastin evidenced through interference with the chick embryonic morphogenetic systems. Kosař K, et al. **Pharmazie** 1989 Sep;44(9):637–8

ULTRASTRUCTURE

Ultrastructural changes of collagen and elastin in human gingiva during orthodontic tooth movement. Franchi M, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1989 Dec; 32(3):139–43

ELASTOMERS see **RUBBER**

ELASTOMERS, SILICONE see **SILICONE ELASTOMERS**

ELBOW

Osteomyelitis of the proximal radial epiphysis. A case report. Maffulli N, et al. **Acta Orthop Scand** 1990 Jun;61(3):269–70

Ulnar nerve problems in the athlete's elbow. Glousman RE. **Clin Sports Med** 1990 Apr;9(2):365–77 (30 ref.)

Nonunion of slightly displaced fractures of the lateral humeral condyle in children: an update. Flynn JC.
J Pediatr Orthop 1989 Nov-Dec;9(6):691–6

Position of the elbow in determination of abnormal motor conduction of the ulnar nerve across the elbow. Bielawski M, et al. **Muscle Nerve** 1989 Oct;12(10):803–9

Delayed open reduction and internal fixation of a displaced radiocapitellar fracture. Ove PN, et al. **Orthopedics** 1990 Apr;13(4):465–8

[Heterotopic ossification and ulnar nerve compression syndrome of the elbow. A report of two cases] Della Santa DR, et al. **Ann Chir Main Memb Super** 1990;9(1):38–41 (Eng. Abstr.) (Fre)

[Tumoral calcinosis] Zimmermann J, et al. **Hautarzt** 1990 Jul;41(7):375–7 (Eng. Abstr.) (Ger)

ABNORMALITIES

Somatic and germ-line mosaicism in autosomal dominant antecubital pterygium [letter; comment] Hall J.
Clin Genet 1990 Feb;37(2):160 Comment on: Clin Genet 1988 Jul;34(1):64–9.

Distraction osteogenesis of a congenital amputation at the elbow. Seitz WH Jr. **J Hand Surg [Am]** 1989 Nov; 14(6):945–8

ANATOMY & HISTOLOGY

Ultrasonic demonstration of the elbow fat pads. Miles KA, et al. **Clin Radiol** 1989 Nov;40(6):602–4

INJURIES

Nonunion of an olecranon stress fracture in an adolescent gymnast. A case report. Wilkerson RD, et al.
Am J Sports Med 1990 Jul-Aug;18(4):432–4

Bilateral elbow dislocation. Wilson A. **Aust N Z J Surg** 1990 Jul;60(7):553–4

Experience of reverse medial arm flaps in the reconstruction of burned elbow scar contractures. Yang JY. **Burns** 1989 Oct;15(5):330–4

Complicated elbow fractures in athletes. Hurley JA.
Clin Sports Med 1990 Jan;9(1):39–57 (68 ref.)

Fractures of the forearm and elbow. Watson JT.
Clin Sports Med 1990 Jan;9(1):59–83 (40 ref.)

Ulna neuropathy after elbow injury in children. Royle SG, et al. **J Pediatr Orthop** 1990 Jul-Aug;10(4):495–6

Tips of the trade #24. Supracondylar elbow fracture in the growing child. Waldron VD. **Orthop Rev** 1990 May; 19(5):437–9

Olecranon fracture with ipsilateral closed radial shaft fracture in a child with open epiphysis. Suprock MD, et al.
Orthopedics 1990 Apr;13(4):463–5

Is CT useful in the traumatized pediatric elbow? Blickman JG, et al. **Pediatr Radiol** 1990;20(3):184–5

INNERVATION

Combined supraclavicular and elbow blocks [letter; comment] Lee E, et al. **Anaesthesia** 1990 Apr;45(4):337–8
Comment on: Anaesthesia 1989 Sep;44(9):747–9.

Ulnar-to-median anastomosis and its role in the diagnosis of lesions of the median nerve at the elbow and the wrist. Golovchinsky V. **Electromyogr Clin Neurophysiol** 1990 Jan; 30(1):31–4

[Is intraneural neurolysis in ulnar nerve sulcus syndrome justified?] Rath T, et al. **Handchir Mikrochir Plast Chir** 1989 Nov;21(6):294–8 (Eng. Abstr.) (Ger)

[The supinator syndrome—an anatomical and clinical study] Hong GX, et al. **J Tongji Med Univ** 1989;9(3):187–92 (Eng. Abstr.) (Ger)

[Nerve compression syndromes of the elbow and hand] Wilhelm K, et al. **Unfallchirurg** 1990 Apr;93(4):165–80 (28 ref.) (Eng. Abstr.) (Ger)

[Clinical and electroneurographic results following surgical treatment of the ulnar nerve sulcus syndrome] Deutinger M, et al. **Z Orthop** 1989 Nov-Dec;127(6):639–42 (Eng. Abstr.) (Ger)

[Electrophysiological diagnosis in ulnar nerve entrapment at elbow] Machida M, et al.
Nippon Seikeigeka Gakkai Zasshi 1990 Jan;64(1):7–16 (Eng. Abstr.) (Jpn)

PATHOLOGY

A rare tumor at the elbow: a glomangioma. Differential diagnosis and therapy. Castro WH, et al.
Arch Orthop Trauma Surg 1989;108(6):380–2

PHYSIOLOGY

Mechanical efficiency of the elbow flexors in rowing. Bompa TO, et al. **Am J Phys Med Rehabil** 1990 Jun;69(3):140–3

Trajectory control in targeted force impulses. VII. Independent setting of amplitude and direction in response preparation. Favilla M, et al. **Exp Brain Res** 1990; 79(3):530–8

A kinematic comparison of single and multijoint pointing movements. Kaminski TR, et al. **Exp Brain Res** 1989; 78(3):547–56

Rapid elbow movements in patients with torsion dystonia. van der Kamp W, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep;52(9):1043–9

Strategies for muscle activation during isometric torque generation at the human elbow. Buchanan TS, et al.
J Neurophysiol 1989 Dec;62(6):1201–12

The triceps-dividing approach to open reduction of complex distal humeral fractures in adolescents: a Cybex evaluation of triceps function and motion. Kasser JR, et al.
J Pediatr Orthop 1990 Jan-Feb;10(1):93–6

Operator performance in myoelectric control of a multifunction prosthesis stimulator. Daley TL, et al.
J Rehabil Res Dev 1990 Winter;27(1):9–20

PHYSIOPATHOLOGY

Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity. Keenan MA, et al.
J Hand Surg [Am] 1990 Mar;15(2):340–6

Dynamic electromyography to assess elbow spasticity. Keenan MA, et al. **J Hand Surg [Am]** 1990 Jul;15(4):607–14

Nerve transposition for the restoration of elbow flexion following brachial plexus avulsion injuries. Friedman AH, et al. **J Neurosurg** 1990 Jan;72(1):59–64

RADIOGRAPHY

Disruption of the radiocapitellar line in the normal elbow. Miles KA, et al. **Injury** 1989 Nov;20(6):365–7

SURGERY

Restoration of the function of the cubital joint in extensive

defects of bones and soft tissues using endoprosthesis and free skin grafts. Grishin IG, et al. **Acta Chir Plast** 1989; 31(3):143–7
The callous elbow and aging of the upper arm. González-Ulloa M. **Aesthetic Plast Surg** 1990 Winter; 14(1):53–7
Restoration of elbow flexion using the latissimus dorsi musculo-cutaneous flap. Rivet D, et al. **Ann Chir Main** 1989;8(2):110–23 **(Eng, Fre)**
Medial epicondylectomy for the treatment of ulnar nerve compression at the elbow. Heithoff SJ, et al. **J Hand Surg [Am]** 1990 Jan;15(1):22–9

ELBOW JOINT

A dynamic elbow flexion splint for an infant with arthrogryposis. Kamil NI, et al. **Am J Occup Ther** 1990 May;44(5):460–1
Primary osteoarthritis of the elbow. Doherty M, et al. **Ann Rheum Dis** 1989 Sep;48(9):743–7
Treatment of nonseptic olecranon bursitis. A controlled, blinded prospective trial. Smith DL, et al. **Arch Intern Med** 1989 Nov;149(11):2527–30
Comment on the article by Daniel [letter; comment] Goupille P, et al. **Arthritis Rheum** 1990 Jun;33(6):911–2 Comment on: Arthritis Rheum 1989 Mar;32(3):341–2.
Posterior interosseous nerve syndrome associated with rheumatoid synovial cysts of the elbow joint. Ishikawa H, et al. **Clin Orthop** 1990 May;(254):134–9
A synovial cyst at the elbow joint [letter] Chippindale AJ, et al. **Clin Radiol** 1989 Sep;40(5):545
Recurrent dislocation of the elbow. Doria A, et al. **Int Orthop** 1990;14(1):41–5
Viscosity of the flexor muscles of the elbow joint under maximum contraction condition. Niku S, et al. **J Biomech** 1989;22(6–7):523–7
Imaging of the elbow. Sauser DD, et al. **Radiol Clin North Am** 1990 Sep;28(5):923–40 (27 ref.)
Case report 590: Diffuse pigmented villonodular synovitis with a cartilaginous component. Pignatti G, et al. **Skeletal Radiol** 1990;19(1):65–7
[Treatment of elbow contracture] Chien SH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Aug; 5(8):465–70 (Eng. Abstr.) **(Chi)**
[Arthrodesis of the elbow using Ilizarov's external fixator] Gunzburg R, et al. **Acta Orthop Belg** 1989;55(4):593–7 (Eng. Abstr.) **(Fre)**
[Detachment of the triceps in the treatment of elbow stiffness in extension in children] Negus N, et al. **Rev Chir Orthop** 1989;75(6):420–3 (Eng. Abstr.) **(Fre)**
[The rheumatic elbow joint] **Aktuel Probl Chir Orthop** 1989; 37:1–120 **(Ger)**
[Hemophilic osteoarthropathy with special reference to the elbow joint] Erlemann R, et al. **Radiologe** 1990 Mar; 30(3):116–23 (22 ref.) (Eng. Abstr.) **(Ger)**
[Chondromatosis of the elbow joint—a single-joint arthropathy] Patzak HJ. **Unfallchirurgie** 1990 Apr; 16(2):107–9 (Eng. Abstr.) **(Ger)**
[Osteoid osteoma of the olecranon fossa. Presentation of a clinical case] Pisaneschi A, et al. **Arch Putti Chir Organi Mov** 1989;37(2):441–6 (22 ref.) (Eng. Abstr.) **(Ita)**
[Hemophiliac arthropathy of the elbow with bilateral luxation of the head of the radius. Hemophiliac arthropathy of the knee at the stage of arthrosis] Gorun N, et al. **Rev Chir [Chir]** 1989 Jul–Aug;38(4):299–304 (Eng. Abstr.) **(Rum)**
[Rehabilitative treatment in endoprosthesis of the elbow joint] Kaptelin AF, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 May–Jun; (3):37–40 (Eng. Abstr.) **(Rus)**
[Arthritis caused by Pneumococcus (letter)] Arranz Caso JA, et al. **Rev Clin Esp** 1990 Feb;186(2):101–2 **(Spa)**

ABNORMALITIES

[Problem of correction of varus deformity of the elbow joint in children] Gadzhimirzaev GA, et al. **Ortop Travmatol Protez** 1990 May;(5):47–8 **(Rus)**

ANATOMY & HISTOLOGY

Ultrasonography of the elbow joint. Koski JM. **Rheumatol Int** 1990;10(3):91–4
[Functional anatomy of the elbow joint] Tillmann B, et al. **Aktuel Probl Chir Orthop** 1989;37:20–7 (22 ref.) **(Ger)**
[Curvature and contact surface relations of the humeroradial joint] Bünck S. **Anat Anz** 1990;171(1):45–53 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

The vascular supply of the chondro-epiphyses of the elbow joint in young swine. Visco DM, et al. **J Anat** 1989 Apr; 163:215–29

INJURIES

Incomplete lateral dislocation of the elbow in children. A report of a case and review of the classification. Sanpera I Jr. **Acta Orthop Belg** 1989;55(3):509–12 (8 ref.)
Radial head subluxation: epidemiology and treatment of 87 episodes. Schunk JE. **Ann Emerg Med** 1990 Sep; 19(9):1019–23
Pulled elbow and hypermobility of joints. Amir D, et al. **Clin Orthop** 1990 Aug;(257):94–9
Completely displaced supracondylar fracture of the humerus in children. A review of 1708 comparable cases. Kurer MH, et al. **Clin Orthop** 1990 Jul;(256):205–14 (62 ref.)
The epidemiology of radial head subluxation ('pulled elbow') in the Aberdeen city area. Jongschaap HC, et al. **Health Bull (Edinb)** 1990 Mar;48(2):58–61
Sidewind reinforcement for above-elbow plaster slabs. Muirhead AG, et al. **Injury** 1989 May;20(3):159–60
Brachial artery entrapment in closed elbow dislocation. Wilmshurst AD, et al. **Injury** 1989 Jul;20(4):240–1
Complex fractures about the elbow. Zagorski JB. **Instr Course Lect** 1990;39:265–70 (35 ref.)
Osteosynthesis of fractures of the upper end of the radius. Fama G, et al. **Ital J Orthop Traumatol** 1988 Dec; 14(4):465–74
Post-traumatic contracture of the elbow. Operative treatment, including distraction arthroplasty. Morrey BF. **J Bone Joint Surg [Am]** 1990 Apr;72(4):601–18
Elbow dislocation with avulsion of the medial humeral epicondyle. Fowles JV, et al. **J Bone Joint Surg [Br]** 1990 Jan;72(1):102–4
A little smile... [editorial] Mayeda DV. **J Emerg Med** 1990 Mar–Apr;8(2):203
Nonclassic history in children with radial head subluxations. Sacchetti A, et al. **J Emerg Med** 1990 Mar–Apr;8(2):151–3
Radiographic changes with radial head subluxation in children. Snyder HS. **J Emerg Med** 1990 May–Jun; 8(3):265–9
Concomitant fractures of the capitellum and trochlea. Oppenheim W, et al. **J Orthop Trauma** 1989;3(3):260–2
Concomitant medial condyle fracture of the humerus in a childhood posterolateral dislocation of the elbow. Saraf SK, et al. **J Orthop Trauma** 1989;3(4):352–4
Avulsion of the triceps tendon. Viegas SF. **Orthop Rev** 1990 Jun;19(6):533–6
Analysis of mechanical factors affecting fixation of olecranon fractures. Horner SR, et al. **Orthopedics** 1989 Nov; 12(11):1469–72
Imaging of the elbow with an emphasis on trauma. Pitt MJ, et al. **Radiol Clin North Am** 1990 Mar;28(2):293–305 (35 ref.)
[Recurrent dislocation of the elbow] Nickels E, et al. **Acta Orthop Belg** 1989;55(2):225–9 (Eng. Abstr.) **(Fre)**
[Entrapment of the median nerve after dislocation of the elbow] Tropet Y, et al. **Acta Orthop Belg** 1989;55(2):217–21 (Eng. Abstr.) **(Fre)**
[Resection of the distal part of the humerus in neglected elbow dislocations. Apropos of 23 case reports] Di Schino M, et al. **Med Trop (Mars)** 1989 Oct–Dec;49(4):415–20 (Eng. Abstr.) **(Fre)**
[Open reduction of the elbow. Apropos of 29 neglected dislocations] Di Schino M, et al. **Med Trop (Mars)** 1989 Oct–Dec;49(4):421–6 (Eng. Abstr.) **(Fre)**
[Resorbable implants and their use exemplified by fracture of the head of the radius] Jahn R, et al. **Aktuel Traumatol** 1989 Dec;19(6):281–6 (Eng. Abstr.) **(Ger)**
[Inveterate pediatric dislocation of the radial head with an intact annular ligament. A case report] Winker KH, et al. **Aktuel Traumatol** 1990 Apr;20(2):93–6 (Eng. Abstr.) **(Ger)**
[Ligament injuries and dislocations of the elbow joint] Muhr G, et al. **Orthopade** 1989 Aug;18(4):268–72 (Eng. Abstr.) **(Ger)**
[Differential diagnosis of distortion of the elbow joint] Brug E, et al. **Radiologe** 1990 Mar;30(3):97–101 (Eng. Abstr.) **(Ger)**
[Fractures in the region of the elbow joint] Lorenz R. **Radiologe** 1990 Mar;30(3):102–5 (16 ref.) (Eng. Abstr.) **(Ger)**
[Results of plate osteosynthesis in comminuted fracture of the olecranon] König S, et al. **Unfallchirurg** 1990 May; 93(5):216–20 (Eng. Abstr.) **(Ger)**
[Fractured Monteggia pseudarthrosis. An unusual case] Kulenkampff HA, et al. **Unfallchirurg** 1990 Jan;93(1):32–4 (Eng. Abstr.) **(Ger)**
[Histomorphological studies on the development of the radial condyle fracture of the humerus in the growth years] Dallek M, et al. **Unfallchirurgie** 1990 Apr;16(2):57–62 (Eng. Abstr.) **(Ger)**
[Surgical treatment of distal humerus fractures in children] Schück R, et al. **Z Kinderchir** 1989 Oct;44(5):283–5 (Eng. Abstr.) **(Ger)**
[Supra- and intercondylar fractures of the distal meta-epiphysis of the humerus in adults: prognosis and therapy] Rosa MA, et al. **Arch Putti Chir Organi Mov** 1989; 37(2):397–405 (Eng. Abstr.) **(Ita)**
[Fractures of internal epicondyle of the humerus with intra-articular incarceration of bone fragments] Ter-Egiazarov GM, et al. **Khirurgiia (Mosk)** 1989 Nov; (11):86–90 (Eng. Abstr.) **(Rus)**
[Tactics in the treatment of fractures at the region of the elbow joint in children] Burin MD, et al. **Klin Khir** 1990; (6):38–40 (Eng. Abstr.) **(Rus)**
[Surgical treatment of fractures of the distal end of the humerus in children] Iaroslavtsev SI. **Ortop Travmatol Protez** 1989 Nov;(11):43–7 (Eng. Abstr.) **(Rus)**
[Fractures of the head of the humeral condyle in children and characteristics of their treatment] Levitskiĭ SF. **Ortop Travmatol Protez** 1989 Nov;(11):39–43 (Eng. Abstr.) **(Rus)**
[Fractures of the radius neck associated with ulna fractures in children] Sysa NF. **Ortop Travmatol Protez** 1989 Nov; (11):47–9 (Eng. Abstr.) **(Rus)**
[Remote results of the surgical treatment of fractures of the distal end of the humerus in children] Khodzhaev RR, et al. **Vestn Khir** 1989 May;142(5):86–7 **(Rus)**
[Fractures of the radius neck associated with dislocation of the elbow joint in children] Sysa NF. **Vestn Khir** 1989 Nov; 143(11):82–4 **(Rus)**

INNERVATION

Functional topography and ultrastructure of periarticular mechanoreceptors in the lateral elbow region of the rat. Strasmann T, et al. **Acta Anat (Basel)** 1990;138(1):1–14

PATHOLOGY

Post-traumatic cubitus varus. Long-term follow-up of corrective supracondylar humeral osteotomy in children. Ippolito E, et al. **J Bone Joint Surg [Am]** 1990 Jun; 72(5):757–65
The elbow and wrist. Berquist TH. **Top Magn Reson Imaging** 1989 Jun;1(3):15–27 (38 ref.)
[Stiffness and ankylosis of the elbow. Apropos of 35 cases] Meziane A, et al. **Acta Orthop Belg** 1989;55(1):72–8 (13 ref.) (Eng. Abstr.) **(Fre)**
[Forms of destruction of the head of the radius in chronic polyarthritis] Mohr W. **Aktuel Probl Chir Orthop** 1989; 37:28–35 **(Ger)**
[The value of ultrasound examination of the rheumatoid elbow joint] Wetzel R, et al. **Aktuel Probl Chir Orthop** 1989;37:36–8 **(Ger)**

PHYSIOLOGY

Specific tension of human elbow flexor muscles. Edgerton VR, et al. **Acta Physiol Hung** 1990;75(3):205–16
Axillary crutch walking: effects of three training programs. Bhambhani YN, et al. **Arch Phys Med Rehabil** 1990 Jun; 71(7):484–9
Intraarticular pressure and capacity of the elbow. O'Driscoll SW, et al. **Arthroscopy** 1990;6(2):100–3
Compliant characteristics of single joints: preservation of equifinality with phasic reactions. Latash ML, et al. **Biol Cybern** 1990;62(4):331–6
Muscle activity for initiation of planar, two-joint arm movements in different directions. Hasan Z, et al. **Exp Brain Res** 1989;76(3):651–5
The influence of stimulation pulse frequency on the generation of joint moments in the upper limb. Nathan R, et al. **IEEE Trans Biomed Eng** 1990 Mar;37(3):317–22
Physiological considerations of muscle force through the elbow joint. An KN, et al. **J Biomech** 1989; 22(11–12):1249–56
Kinesthetic control of a multijoint movement sequence. Cordo PJ. **J Neurophysiol** 1990 Jan;63(1):161–72
Organizing principles for single joint movements. III. Speed-insensitive strategy as a default. Gottlieb GL, et al. **J Neurophysiol** 1990 Mar;63(3):625–36
[Characteristics of the articulation heads in the elbow joint in relation to flexor-extension movements] Brizzi E, et al. **Arch Putti Chir Organi Mov** 1989;37(1):249–55 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Recovery of elbow function in voluntary positioning of the hand following hemiplegia due to stroke. Wing AM, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):126–34
Residuals of elbow trauma in children. Wilkins KE. **Orthop Clin North Am** 1990 Apr;21(2):291–314
[A protractor-rotatometer] Tol'tsiner NF. **Ortop Travmatol Protez** 1989 Nov;(11):76 **(Rus)**

RADIATION EFFECTS

[Radiosynoviorthesis of the elbow joint] Haass F. **Aktuel Probl Chir Orthop** 1989;37:44–5 **(Ger)**

RADIOGRAPHY

Luxation of the elbow complicated by proximal radio-ulnar translocation. Eklöf O, et al. **Acta Radiol** 1990 Mar; 31(2):145–6
Posterior dislocation of the elbow with an osteochondral fracture. Shankar NS, et al. **Injury** 1989 Jan;20(1):51–2
Myositis ossificans in tetanus. A rare complication. Siwach SB, et al. **J Assoc Physicians India** 1990 Mar;38(3):230–1
[The search for joint loose bodies in the elbow joint—conventional or CT arthrography?] Frahm R, et al. **Radiologe** 1990 Mar;30(3):113–5 (Eng. Abstr.) **(Ger)**
[CT diagnosis of the elbow joint] Zwaan M, et al. **Radiologe** 1990 Mar;30(3):106–12 (Eng. Abstr.) **(Ger)**
[Computed tomography of elbow diseases] Zwaan M, et al. **Rontgenpraxis** 1990 Jan;43(1):20–4 **(Ger)**
[Diagnosis of a case of elbow-joint osteoid osteoma] Hayashi K, et al. **Rinsho Hoshasen** 1989 Jul;34(7):831–2 **(Jpn)**

RADIONUCLIDE IMAGING

Imaging Yttrium-90 synovectomy studies. Mullan BP, et al. **Australas Radiol** 1989 Nov;33(4):379–81
[Negative results of the scintigraphic examination in osteoid osteoma] Tamburrelli F, et al.

Arch Putti Chir Organi Mov 1989;37(1):193–8 (Eng. Abstr.) (Ita)

SURGERY

Restoration of the function of the cubital joint in extensive defects of bones and soft tissues using endoprosthesis and free skin grafts. Grishin IG, et al. Acta Chir Plast 1989; 31(3):143–7

Elbow arthroplasty in rheumatoid arthritis. Function after 1–2 years in 20 cases. Jonsson B, et al. Acta Orthop Scand 1990 Aug;61(4):344–7

Arthrolysis of the elbow. 13 cases of posttraumatic stiffness. Weizenbluth M, et al. Acta Orthop Scand 1989 Dec; 60(6):642–5

Medial approach in elbow arthroscopy. Lindenfeld TN. Am J Sports Med 1990 Jul–Aug;18(4):413–7

Repair of elbow defects and the biochemical characteristics of Werner's syndrome. Koshima I, et al. Ann Plast Surg 1989 Oct;23(4):357–62

Restoration of elbow flexion by latissimus dorsi myocutaneous or muscle flap. Chen WS. Arch Orthop Trauma Surg 1990;109(3):117–20

Results of reconstruction for failed total elbow arthroplasty. Figgie MP, et al. Clin Orthop 1990 Apr;(253):123–32

Elbow hemiarthroplasty with 20-year follow-up study. A case report and literature review. Shifrin PG, et al. Clin Orthop 1990 May;(254):128–33 (6 ref.)

Surgical treatment of the elbow in rheumatoid arthritis. Boyd AD Jr, et al. Hand Clin 1989 Nov;5(4):645–55 (56 ref.)

Bilateral intra-articular loose bodies of the elbow in an adolescent BMX rider. Fixsen JA, et al. Injury 1989 Nov; 20(6):363–4

Operation for the stiff elbow. Itoh Y, et al. Int Orthop 1989; 13(4):263–8

The viability of articular cartilage in fresh osteochondral allografts after clinical transplantation. Czitrom AA, et al. J Bone Joint Surg [Am] 1990 Apr;72(4):574–81

Total elbow arthroplasty with a non-constrained surface-replacement prosthesis in patients who have rheumatoid arthritis. A long-term follow-up study. Kudo H, et al. J Bone Joint Surg [Am] 1990 Mar;72(3):355–62

Management of infection about total elbow prostheses. Wolfe SW, et al. J Bone Joint Surg [Am] 1990 Feb;72(2):198–212

The osteo-anconeus flap. An approach for total elbow arthroplasty. Wolfe SW, et al. J Bone Joint Surg [Am] 1990 Jun;72(5):684–8

Silastic interposition for haemophilic arthropathy of the elbow. Butler-Manuel PA, et al. J Bone Joint Surg [Br] 1990 May;72(3):472–4

One-stage arthroplasty of the ipsilateral shoulder and elbow. Kocialkowski A, et al. J Bone Joint Surg [Br] 1990 May; 72(3):520

A surgical approach to the elbow. Stanley D, et al. J Bone Joint Surg [Br] 1990 Jul;72(4):728–9

Elbow joint salvage with transverse rectus island flap [letter; comment] Grenga TE. Plast Reconstr Surg 1990 May; 85(5):830–1 Comment on: Plast Reconstr Surg 1989 Sep;84(3):492–7; discussion 498.

[Possibilities for the use of elbow joint arthroscopy in rheumatology] Gondolph-Zink B, et al. Aktuel Probl Chir Orthop 1989;37:39–43 (Ger)

[Long-term results with the GSB III elbow arthroplasty] Gschwend N. Aktuel Probl Chir Orthop 1989;37:72–81 (Ger)

[The Society of Rheumatologic Orthopedics documentation exemplified by elbow joint synovectomy] Hagena FW, et al. Aktuel Probl Chir Orthop 1989;37:107–20 (Ger)

[Early results with the Souter/Strathclyde elbow joint prosthesis in patients with chronic polyarthritis (rheumatoid arthritis)] Pöll RG, et al. Aktuel Probl Chir Orthop 1989;37:65–71 (Ger)

[The effect of resection of the head of the radius on the results of synovectomy of the elbow joint in chronic polyarthritis] Siekmann W, et al. Aktuel Probl Chir Orthop 1989;37:61–4 (Ger)

[Resection-interposition arthroplasty of the elbow joint in chronic polyarthritis—indications and results] Tillmann K. Aktuel Probl Chir Orthop 1989;37:55–6 (Ger)

[Results of synovectomy of the elbow joint in chronic polyarthritis] Tressel W, et al. Aktuel Probl Chir Orthop 1989;37:57–60 (Ger)

[Differential indications, surgical technics and follow-up treatment concepts of elbow joint surgery in polyarthritis] Waertel G, et al. Aktuel Probl Chir Orthop 1989;37:46–54 (Ger)

[The elbow joint—a historical presentation on the occasion of the meeting of the Society of Rheumatologic Orthopedics in Bad Abbach 1988] Wessinghage D. Aktuel Probl Chir Orthop 1989;37:10–9 (Ger)

[Florid tuberculosis of the elbow joint synovia] Bettermann A, et al. Unfallchirurgie 1989 Oct;15(5):266–7 (Eng. Abstr.) (Ger)

[Paralysis of the ulnar nerve caused by osteochondromatosis] Patella V, et al. Arch Putti Chir Organi Mov 1989; 37(1):239–48 (Eng. Abstr.) (Ita)

[The surgical treatment of the elbow joint in rheumatoid arthritis patients] Pavlov VP, et al. Revmatologiia (Mosk) 1989 Oct–Dec;(4):28–32 (Eng. Abstr.) (Rus)

ELDER ABUSE

Elder abuse. O'Neill D, et al. Ir J Med Sci 1990 Feb; 159(2):48–9

Elder abuse. Brungardt GS. Kans Med 1990 May; 91(5):129–31

Elder abuse. From definition to prevention. Bourland MD. Postgrad Med 1990 Feb 1;87(2):139–44 (13 ref.)

LEGISLATION & JURISPRUDENCE

Reporting elder abuse: limitations of statutes [see comments] Brewer RA, et al. Ann Emerg Med 1989 Nov; 18(11):1217–21 Comment in: Ann Emerg Med 1989 Nov;18(11):1249–50.

Abuse and neglect of the elderly: are emergency department personnel aware of mandatory reporting laws? Clark-Daniels CL, et al. Ann Emerg Med 1990 Sep; 19(9):970–7

A community response to elder abuse. Foelker GA Jr, et al. Gerontologist 1990 Aug;30(4):560–2

ELECTRIC ANESTHESIA see ELECTRONARCOSIS

ELECTRIC CONDUCTANCE, SKIN see GALVANIC SKIN RESPONSE

ELECTRIC CONDUCTIVITY

Epidermal hydration and skin mechanics. The relationship between electrical capacitance and the mechanical properties of human skin in vivo. Jemec GB, et al. Acta Derm Venereol (Stockh) 1990;70(3):245–7

Singular point, organizing center and acupuncture point. Shang C. Am J Chin Med 1989;17(3–4):119–27 (35 ref.)

The menstrual cycle's effect on the reliability of bioimpedance measurements for assessing body composition. Gleichauf CN, et al. Am J Clin Nutr 1989 Nov;50(5):903–7

Use of total-body electrical conductivity for the assessment of body composition in middle-aged and elderly individuals. Van Loan MD, et al. Am J Clin Nutr 1990 Apr;51(4):548–52

Electrical properties and molecular architecture of the channel formed by Escherichia coli hemolysin in planar lipid membranes. Ropele M, et al. Biochim Biophys Acta 1989 Oct 2;985(1):9–18

Analysis of scalp voltage asymmetries using Hotelling's T2 methodology. Faux SF, et al. Brain Topogr 1990 Spring; 2(3):237–45

Correlation of CT and MR with impedance monitoring and histopathology in stereotactic biopsies. Gorecki J, et al. Can J Neurol Sci 1990 May;17(2):184–9

Effect of low mole fraction of trehalose dicorynomycolate from Corynebacterium diphtheriae on water permeability and electrical capacitance of lipid bilayer membranes. Imasato H, et al. Chem Phys Lipids 1990 Feb; 52(3–4):259–62

Modulation of the frequency of glucose-dependent bursts of electrical activity by HCO3/CO2 in rodent pancreatic B-cells: experimental and theoretical results. Carroll PB, et al. Eur Biophys J 1990;18(2):71–7

Assessment of body composition by bioelectrical impedance in children and young adults is strongly age-dependent. Deurenberg P, et al. Eur J Clin Nutr 1990 Apr;44(4):261–8

Assessment of body composition in 8–11 year old children by bioelectrical impedance. Deurenberg P, et al. Eur J Clin Nutr 1989 Sep;43(9):623–9

Is the bioelectrical impedance method suitable for epidemiological field studies? Deurenberg P, et al. Eur J Clin Nutr 1989 Sep;43(9):647–54

Potential use of bioelectrical impedance of the 'whole body' and of body segments for the assessment of body composition: comparison with densitometry and anthropometry. Fuller NJ, et al. Eur J Clin Nutr 1989 Nov; 43(11):779–91

Bioelectric impedance for body composition. Baumgartner RN, et al. Exerc Sport Sci Rev 1990;18:193–224 (125 ref.)

Grounding nonelectrical OR tables. Health Devices 1989 Oct; 18(10):367

Electrical safety analyzers. Health Devices 1988 Oct; 17(10):283–309

Shocks from Steri-Loop Bacteriology Incinerators. Health Devices 1990 Mar;19(3):99–101

Air-Shields Vickers, Narco Bio-Systems, and SpaceLabs 4045 defibrillator/monitor resistors. Health Devices 1988 Oct;17(10):315

Isolated power systems. Health Devices 1988 May; 17(5):170–1

Shortwave diathermy units. Health Devices 1988 Aug; 17(8):247

Errors due to measuring voltage on current-carrying electrodes in electric current computed tomography. Cheng KS, et al. IEEE Trans Biomed Eng 1990 Jan; 37(1):60–5

Nonlinear system identification for cascaded block model: an application to electrode polarization impedance. Shi JH, et al. IEEE Trans Biomed Eng 1990 Jun;37(6):574–87

Comparisons of body composition derived from anthropometric and bioelectrical impedance methods. Campos AC, et al. J Am Coll Nutr 1989 Dec;8(6):484–9

Capillary electrophoresis with indirect amperometric detection. Olefirowicz TM, et al. J Chromatogr 1990 Jan 19;499:713–9

Simultaneous capacitance and calcium measurements in degranulating neutrophils. Nüsse O, et al. J Protein Chem 1989 Jun;8(3):441–3

Bioelectrical impedance analysis for body composition: clinical evaluation in general surgical patients. Schroeder D, et al. JPEN J Parenter Enteral Nutr 1990 Mar–Apr; 14(2):129–33

Relationship between values of bioelectrical impedance and creatinine clearance. Smythe MA, et al. Pharmacotherapy 1990;10(1):42–6

Small electric currents affecting farm animals and man: a review with special reference to stray voltage. I. Electric properties of the body and the problem of stray voltage. Hultgren J. Vet Res Commun 1990;14(4):287–98 (59 ref.)

[The use of the impedance measurement technic for calculating body fat mass. A validity study] Heitmann BL, et al. Ugeskr Laeger 1989 Oct 2;151(40):2588–91 (Eng. Abstr.) (Dan)

[Perceptual sensitivity to 50 Hz alternating fields and alternating current (comment on the contribution by W. Irnich and L. Batz)] Schaefer H. Biomed Tech (Berlin) 1990 May;35(5):112–4 (Ger)

DRUG EFFECTS

Lead inhibits the voltage-activated calcium current of Aplysia neurons. Büsselberg D, et al. Toxicol Lett 1990 Mar;51(1):51–7

[Effects of volatile anesthetics on conduction and maximum rate of rise of action potential upstroke in guinea-pig papillary muscles] Ozaki S. Hokkaido Igaku Zasshi 1989 Nov;64(6):705–14 (Eng. Abstr.) (Jpn)

PHYSIOLOGY

Assessment of body composition by bioelectrical impedance in a population aged greater than 60 y. Deurenberg P, et al. Am J Clin Nutr 1990 Jan;51(1):3–6

Whole blood aggregation using impedance and particle counter methods. Sweeney JD, et al. Am J Clin Pathol 1989 Dec;92(6):794–7

Body impedance is largely dependent on the intra- and extra-cellular water distribution. Deurenberg P, et al. Eur J Clin Nutr 1989 Dec;43(12):845–53

Negligible effects of previous moderate physical activity and changes in environmental temperature on whole body electrical impedance. Garby L, et al. Eur J Clin Nutr 1990 Jul;44(7):545–6

Evaluation of salivary and vaginal electrical resistance for determination of the time of ovulation. Fazleabas AT, et al. Int J Fertil 1990 Mar–Apr;35(2):106–11

Slotted resonator: principles and applications for high-frequency imaging and spectroscopy on electrically conducting samples. Nijhof EJ. Magn Reson Imaging 1990; 8(3):345–9

Optical evidence for a chloride conductance in the T-system of frog skeletal muscle. Heiny JA, et al. Pflugers Arch 1990 May;416(3):288–95

[Low-frequency conductometry of the tissues and organs of undefined geometrical form] Ibragimov RSh, et al. Med Tekh 1990 Mar–Apr;(2):8–11 (Eng. Abstr.) (Rus)

ELECTRIC COUNTERSHOCK

The effect of cardioversion on maximal exercise capacity in patients with chronic atrial fibrillation. Atwood JE, et al. Am Heart J 1989 Nov;118(5 Pt 1):913–8

Accidental deactivation of the automatic implantable cardioverter defibrillator. Bonnet CA, et al. Am Heart J 1990 Sep;120(3):696–7

Enzyme changes following direct current countershock. Hunt D, et al. Am Heart J 1968 Sep;76(3):340–4

Changes in transmyocardial impedance during prolonged ventricular fibrillation. Implications for current flow and delivered energy during DC countershock. Mahmud R, et al. Am Heart J 1990 Aug;120(2):334–9

Return of atrial mechanical function following electrical conversion of atrial dyarhythmias. O'Neill PG, et al. Am Heart J 1990 Aug;120(2):353–9

Atrial function after cardioversion. Rowlands DJ, et al. Am Heart J 1967 Aug;74(2):149–60

Immediate improvement in left ventricular function after cardioversion of atrial flutter [published erratum appears in Am J Cardiol 1990 Sep 15;66(7):772] Karnegis JN, et al. Am J Cardiol 1989 Nov 1;64(16):1043–7

Efficacy and safety of flecainide acetate in the maintenance of sinus rhythm after electrical cardioversion of chronic atrial fibrillation or atrial flutter. Van Gelder IC, et al. Am J Cardiol 1989 Dec 1;64(19):1317–21

Effectiveness of midazolam as a sedative for cardioverting patients with tachydysrhythmias in the awake state [letter] Ferguson DB, et al. Am J Emerg Med 1990 May;8(3):273–4

Prehospital countershock treatment of pediatric asystole. Losek JD, et al. Am J Emerg Med 1989 Nov;7(6):571–5

Estimating the duration of ventricular fibrillation. Brown CG, et al. Ann Emerg Med 1989 Nov;18(11):1181–5

From concept to standard-of-care? Review of the clinical experience with automated external defibrillators. Cummins RO. Ann Emerg Med 1989 Dec;18(12):1269–75 (46 ref.)

Development of a decision algorithm for a semiautomatic defibrillator. Edwards DG. Ann Emerg Med 1989 Dec; 18(12):1276–9

Prehospital experience with defibrillation of coarse ventricular fibrillation: a ten-year review. Hargarten KM, et al. **Ann Emerg Med** 1990 Feb;19(2):157-62

Benefits of early defibrillation [letter; comment] White RD, et al. **Ann Emerg Med** 1990 May;19(5):613-4 Comment on: Ann Emerg Med 1989 Aug;18(8):806-11.

Autowave approaches to cessation of reentrant arrhythmias. Krinsky VI, et al. **Ann N Y Acad Sci** 1990;591:232-46 (37 ref.)

Operative risks of the implantable defibrillator versus endocardial resection. Kron IL, et al. **Ann Surg** 1990 May; 211(5):600-3; discussion 603-4

Defibrillation by ambulance staff [letter; comment] **BMJ** 1989 Aug 12;299(6696):457-8 Comment on: BMJ 1989 Jul 8;299(6691):96-7.

Should patients with atrial fibrillation be anticoagulated prior to and chronically following cardioversion? Stein B, et al. **Cardiovasc Clin** 1990;21(1):231-47; discussion 248-9 (70 ref.)

Influence of reflow ventricular fibrillation and electrical defibrillation on infarct size in a canine preparation of myocardial infarction. de Lorgeril M, et al. **Cardiovasc Res** 1990 Feb;24(2):151-5

Comparison of activation during ventricular fibrillation and following unsuccessful defibrillation shocks in open-chest dogs. Chen PS, et al. **Circ Res** 1990 Jun;66(6):1544-60

Increasing fibrillation duration enhances relative asymmetrical biphasic versus monophasic defibrillator waveform efficacy. Jones JL, et al. **Circ Res** 1990 Aug; 67(2):376-84

Efficacy and safety of quinidine therapy for maintenance of sinus rhythm after cardioversion. A meta-analysis of randomized control trials. Coplen SE, et al. **Circulation** 1990 Oct;82(4):1106-16

pH-dependent effects of lidocaine on defibrillation energy requirements in dogs. Echt DS, et al. **Circulation** 1989 Oct; 80(4):1003-9

Ventricular refractory period extension caused by defibrillation shocks [see comments] Sweeney RJ, et al. **Circulation** 1990 Sep;82(3):965-72 Comment in: Circulation 1990 Sep;82(3):1064-6.

Refractoriness prolongation by defibrillation shocks [comment] Witkowski FX, et al. **Circulation** 1990 Sep; 82(3):1064-6 Comment on: Circulation 1990 Sep;82(3):965-72.

Pacemaker and defibrillator combination therapy for recurrent ventricular tachycardia. Masterson M, et al. **Cleve Clin J Med** 1990 Jun;57(4):330-8

Prophylactic treatment after electroconversion of atrial fibrillation. Karlson BW, et al. **Clin Cardiol** 1990 Apr; 13(4):279-86 (56 ref.)

Soft tissue uptake on Tc-99m MDP bone scan after cardioversion. Vanhecke W, et al. **Clin Nucl Med** 1989 Dec; 14(12):923

Implantable cardioverters and defibrillators [published erratum appears in Curr Probl Cardiol 1990 Mar;15(3):119] Troup PJ. **Curr Probl Cardiol** 1989 Dec;14(12):673-843 (265 ref.)

Enzyme release after elective cardioversion. Jakobsson J, et al. **Eur Heart J** 1990 Aug;11(8):749-52

Non-medical therapy of ventricular tachyarrhythmias. Lévy S. **Eur Heart J** 1989 Sep;10 Suppl E:48-52 (15 ref.)

The structural-functional basis of spontaneous ventricular defibrillation. Manoach M, et al. **Int J Cardiol** 1990 Feb; 26(2):129-36 (61 ref.)

Short-term morbidity and mortality of implantation of automatic implantable cardioverter-defibrillator. Gartman DM, et al. **J Thorac Cardiovasc Surg** 1990 Sep;100(3):353-7; discussion 357-9

Magnesium fluxes in ventricular fibrillation and defibrillation in untreated and dibenzepine HCl pretreated cats. Stendig-Lindberg G, et al. **Magnes Res** 1988 Jul; 1(1-2):45-50

Transthoracic resistance changes during cardiac defibrillation. Maxwell RF, et al. **Med Biol Eng Comput** 1989 Jul;27(4):425-8

The defibrillation success rate versus energy relationship: Part I--Curve fitting and the most efficient defibrillation energy. Gliner BE, et al. **PACE** 1990 Mar;13(3):326-38

The cardiac electrophysiology of postresuscitation hypokalemia in dogs. Salerno DM, et al. **PACE** 1990 Mar; 13(3):256-63

[Electrophysiology in evaluating the treatment of sustained monomorphic ventricular tachycardia: criteria for efficacy] Aouate P, et al. **Arch Mal Coeur** 1990 Feb;83(2):167-73 (Eng. Abstr.) (Fre)

[Effect of cardioversion of atrial fibrillation on left ventricular function in dilated cardiomyopathy. A multicenter study] Sacrez A, et al. **Arch Mal Coeur** 1990 Jan;83(1):15-21 (Eng. Abstr.) (Fre)

[Anesthesia for cardioversion: what is new in 1989?] Vailly B, et al. **Arch Mal Coeur** 1989 Dec;82(12):2049-51 (10 ref.) (Fre)

[Wolf-Parkinson-White syndrome. Intensive physical activity: the value of fulguration] Warin JF, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:93-7 (Eng. Abstr.) (Fre)

[Early defibrillation in the emergency doctor rendezvous system (letter)] Dick W. **Dtsch Med Wochenschr** 1989 Dec 1;114(50):1983-4 (Ger)

[Systemic fibrinolysis following resuscitation or temporary electrostimulation] Jäger D, et al. **Dtsch Med Wochenschr** 1990 Jun 29;115(26):1009-13 (Eng. Abstr.) (Ger)

[Acute anterior wall infarct with intractable ventricular fibrillation: successful therapy by recanalization of a left anterior descending coronary artery occlusion] von der Leyen H, et al. **Z Kardiol** 1990 Mar;79(3):203-7 (Eng. Abstr.) (Ger)

[Combination use of an automatic anti-tachycardia pacemaker and an automatic implantable cardioverter-defibrillator in sustained recurrent ventricular tachycardia resistant to drugs] Benedini G, et al. **G Ital Cardiol** 1989 Oct;19(10):889-900 (Eng. Abstr.) (Ita)

[ST segment elevation after elective electric cardioversion] Cassin M, et al. **Minerva Cardioangiol** 1989 Oct; 37(10):451-6 (Eng. Abstr.) (Ita)

[The efficacy of electroversion in the treatment of tachyarrhythmia complications of the heart valves] Cosovanu A, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Oct-Dec;93(4):651-4 (Eng. Abstr.) (Rum)

[Correlation of the size and mean pressure in the left atrium and the effectiveness of treatment of persistent atrial fibrillation in patients with acquired heart defects] Gorentsvit IE. **Kardiologiia** 1990 Feb;30(2):100-2 (Rus)

[Long-term results of repeated defibrillation in cardiac fibrillation in patients with ischemic heart disease] Lukoshiavichiute AI, et al. **Kardiologiia** 1989 Dec; 29(12):101-2 (Rus)

[Successful defibrillation in emergency medical care] Kovač D. **Med Arh** 1988;42(1-2):67-8 (Eng. Abstr.) (Scr)

ADVERSE EFFECTS

Provocation of ventricular tachycardia by an automatic implantable cardioverter defibrillator. Kou WH, et al. **Am Heart J** 1990 Jul;120(1):208-10

Automatic internal cardioverter defibrillator lockout. Vlay SC, et al. **Am Heart J** 1990 Sep;120(3):697-8

Atrial transport function after conversion of atrial fibrillation to sinus rhythm [letter; comment] Macieira-Coelho E. **Am J Cardiol** 1989 Nov 1;64(16):1085 Comment on: Am J Cardiol 1988 Dec 1;62(17):1202-7.

Dangers of defibrillation: injuries to emergency personnel during patient resuscitation. Gibbs W, et al. **Am J Emerg Med** 1990 Mar;8(2):101-4

Iatrogenic defibrillator burns. Reisin L, et al. **Burns** 1990 Apr; 16(2):128

Multiple protruding, mobile left ventricular thrombi and risk of embolism after cardioversion [letter] Lo YS, et al. **Chest** 1990 Apr;97(4):1023

Severe bradycardia following electrical cardioversion for atrial tachyarrhythmias in patients with acute myocardial infarction. Mehta PM, et al. **Chest** 1990 Jan;97(1):241-2

Rhabdomyolysis and myoglobinuric renal failure following cardioversion and CPR for acute MI. Minor RL Jr, et al. **Chest** 1990 Feb;97(2):485-6

Automatic implantable cardioverter/defibrillator discharges and acute myocardial injury. Avitall B, et al. **Circulation** 1990 May;81(5):1482-7

Low energy level internal defibrillation during cardiopulmonary bypass. Pugsley WB, et al. **Eur J Cardiothorac Surg** 1989;3(3):273-5

DC cardioversion and coronary artery spasm [see comments] Siwach SB, et al. **J Assoc Physicians India** 1989 Aug; 37(8):545 Comment in: J Assoc Physicians India 1989 Dec;37(12):803.

Transient ST segment elevation following DC cardioversion--merely an 'observation' today [letter; comment] Turakhia DP. **J Assoc Physicians India** 1989 Dec;37(12):803 Comment on: J Assoc Physicians India 1989 Aug;37(8):545.

Automatic defibrillator causes a pain in the neck [letter] Partington MD, et al. **JAMA** 1990 Jan 19;263(3):375

Metabolic changes and mitochondrial dysfunction early following transthoracic countershock in dogs. Trouton TG, et al. **PACE** 1989 Nov;12(11):1827-34

Ventricular fibrillation following elective cardioversion in a patient with permanent pacemaker. Vera Z, et al. **PACE** 1990 May;13(5):568-70

INSTRUMENTATION

Automatic implantable cardioverter-defibrillator [letter; comment] Lattuca J, et al. **Am Heart J** 1989 Dec; 118(6):1359 Comment on: Am Heart J 1989 Feb;117(2):499-504.

Clinical efficacy of dual electrode systems for endocardial cardioversion of ventricular tachycardia: a prospective randomized crossover trial. Saksena S, et al. **Am Heart J** 1990 Jan;119(1):15-22

Electrode pad size, transthoracic impedance and success of external ventricular defibrillation. Dalzell GW, et al. **Am J Cardiol** 1989 Oct 1;64(12):741-4

Role of antitachycardia devices in the treatment of ventricular tachyarrhythmias. Lüderitz B, et al. **Am J Cardiol** 1989 Dec 5;64(20):75J-78J

Management of complications associated with a first-generation endocardial defibrillation lead system for implantable cardioverter-defibrillators. Tullo NG, et al. **Am J Cardiol** 1990 Aug 15;66(4):411-5

Adverse effects of permanent cardiac internal defibrillator patches on external defibrillation. Walls JT, et al. **Am J Cardiol** 1989 Nov 15;64(18):1144-7

Current role of the automatic implantable cardioverter-defibrillator in the treatment of life-threatening ventricular arrhythmias. Kay GN, et al. **Am J Med** 1990 Jan;88(1N):25N-34N (50 ref.)

Automatic external defibrillators. Bocka JJ. **Ann Emerg Med** 1989 Dec;18(12):1264-8 (57 ref.)

Emergency department management of patients with automatic implantable cardioverter-defibrillators. Craig SA, et al. **Ann Emerg Med** 1990 Apr;19(4):421-4

Another method for tunneling defibrillator leads [letter; comment] Smith VC, et al. **Ann Thorac Surg** 1989 Oct; 48(4):610 Comment on: Ann Thorac Surg 1989 Mar;47(3):486.

Initial clinical experience with endocardial defibrillation using an implantable cardioverter/defibrillator with a triple-electrode system. Saksena S, et al. **Arch Intern Med** 1989 Oct;149(10):2333-9

Transvenous ablation of atrioventricular conduction with a low energy power source. Rowland E, et al. **Br Heart J** 1989 Nov;62(5):361-6

Initial clinical experience with the pacemaker-cardioverter-defibrillator. Yee R, et al. **Can J Cardiol** 1990 May;6(4):147-56

An analysis of the cost effectiveness of the implantable defibrillator. Kuppermann M, et al. **Circulation** 1990 Jan; 81(1):91-100

Alarm lockup on ZMI PD 1200 defibrillator/monitors. **Health Devices** 1990 Aug;19(8):293-4

Porta Fib III defibrillator/monitor paddles. **Health Devices** 1989 May;18(5):175-6

Lifepak 8 defibrillator/monitors. **Health Devices** 1988 Sep; 17(9):273-4

Hewlett-Packard defibrillator/monitors and Darox R2 electrodes. **Health Devices** 1990 Jul;19(7):246

Defibrillation: ensuring its success. **Health Devices** 1990 Feb; 19(2):32-56

Battery pins on Lifepak 5 defibrillator/monitors. **Health Devices** 1989 Feb;18(2):84-5

Misuse of "quick-look" defibrillator paddles. **Health Devices** 1988 Feb;17(2):68-9

Lifepak 8 defibrillator/monitors. **Health Devices** 1988 Aug; 17(8):244-5

Physio-Control Lifepak 6 and 6s defibrillator/monitors. **Health Devices** 1988 Aug;17(8):245-6

Air-Shields Vickers, Narco Bio-Systems, and SpaceLabs 4045 defibrillator/monitor resistors. **Health Devices** 1988 Oct;17(10):315

Physio-control develops Mains Power switch cover. **Health Devices** 1988 Nov;17(11):356

Design for a constant peak current defibrillator. Machin JW, et al. **IEEE Trans Biomed Eng** 1990 Jul;37(7):723-30

Psychological support and psychiatric management of patients with automatic implantable cardioverter defibrillators. Tchou PJ, et al. **Int J Psychiatry Med** 1989; 19(4):393-407

Clinical interactions between pacemakers and automatic implantable cardioverter-defibrillators. Calkins H, et al. **J Am Coll Cardiol** 1990 Sep;16(3):666-73

Efficacy of the automatic implantable cardioverter-defibrillator in prolonging survival in patients with severe underlying cardiac disease. Fogoros RN, et al. **J Am Coll Cardiol** 1990 Aug;16(2):381-6

Management of survivors of cardiac arrest: is electrophysiologic testing obsolete in the era of implantable defibrillators? [comment] Kim SG. **J Am Coll Cardiol** 1990 Sep;16(3):756-62 (48 ref.) Comment on: J Am Coll Cardiol 1990 Sep;16(3):657-65.

Hemodynamic sensors for implantable defibrillators [editorial; comment] Mirowski M, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):656-7 Comment on: J Am Coll Cardiol 1990 Mar 1;15(3):648-55.

Right ventricular pressure during ventricular arrhythmias in humans: potential implications for implantable antitachycardia devices [see comments] Sharma AD, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):648-55 Comment in: J Am Coll Cardiol 1990 Mar 1;15(3):656-7.

Defibrillator failures. Causes of problems and recommendations for improvement. Defibrillator Working Group. Cummins RO, et al. **JAMA** 1990 Aug 22-29; 264(8):1019-25

Use of the elective replacement indicator in predicting time of automatic implantable cardioverter-defibrillator battery depletion. Aaarons D, et al. **PACE** 1989 Nov;12(11):1724-8

The use of beep-o-grams in the assessment of automatic implantable cardioverter defibrillator sensing function. Ballas SL, et al. **PACE** 1989 Nov;12(11):1737-45

Implantable cardioverter defibrillator statistics [editorial] Furman S. **PACE** 1990 Jan;13(1):1-2

Modified magnet test for a reversed automatic implantable cardioverter defibrillator. Gering LE, et al. **PACE** 1989 Dec;12(12):1838-40

A technique for intraoperative arrhythmia induction during automatic implantable defibrillator placement. Grubb BP, et al. **PACE** 1990 Aug;13(8):958-60

Cardiomyopathy and the use of implanted cardio-defibrillators in children. Kaminer SJ, et al. **PACE** 1990 May;13(5):593-7

Utility of low energy test shocks for estimation of cardiac and electrode impedance with implantable defibrillators. Leitch JW, et al. **PACE** 1990 Apr;13(4):410-6

A technique for the prevention of automatic implantable cardioverter defibrillator generator migration. Mancini

MC, et al. **PACE** 1990 Jul;13(7):946–7
Defibrillator "twiddler's" syndrome [letter] Ruder MA, et al. **PACE** 1990 Aug;13(8):1073–4
Antiarrhythmic devices: in search of a common parlance. Saksena S. **PACE** 1989 Oct;12(10):1579–82
Automatic implantable cardioverter defibrillator implantation after previous open heart surgery: subcostal incision and small left anterior thoracotomy. Siclari F, et al. **PACE** 1990 Jun;13(6):715–8
Performance of implantable cardiac rhythm management devices. Song SL. **PACE** 1990 Mar;13(3):371–83
Performance of implantable cardiac rhythm management devices. Song SL. **PACE** 1989 Dec;12(12):1968
Performance of implantable cardiac rhythm management devices. Song SL. **PACE** 1990 Jun;13(6):827–8
AICD benefit [letter; comment] Veltri EP. **PACE** 1989 Dec; 12(12):1964–7 Comment on: PACE 1989 Mar;12(3):399–400.
VT/VF: 60/60 protection [letter] Veltri EP. **PACE** 1990 Aug;13(8):1074–6
Revised implantation procedure for programmable automatic implantable cardioverter defibrillator: don't discard the magnet. Venditti FJ Jr, et al. **PACE** 1990 Jun;13(6):776–82
Clinical experience with three different defibrillators for resuscitation of out of hospital cardiac arrest. Jakobsson J, et al. **Resuscitation** 1990 Apr;19(2):167–73
[An automatic implantable heart rhythm converter and defibrillator] Thomsen PE, et al. **Ugeskr Laeger** 1989 Nov 13;151(46):3053–6 (15 ref.) (Eng. Abstr.) **(Dan)**
[The implantable automatic cardioverter-defibrillator] Klein H, et al. **Herz** 1990 Apr;15(2):111–25 (35 ref.) (Eng. Abstr.) **(Ger)**
[Automatic implantable defibrillator: present and future] Belhassen B, et al. **Harefuah** 1990 Jan 1;118(1):26–9 (13 ref.) **(Heb)**
[Transvenous bidirectional shock with a triple electrode system: a promising step in the electrical management of ventricular tachyarrhythmias] Vergara G, et al. **G Ital Cardiol** 1989 Jun;19(6):469–76 (Eng. Abstr.) **(Ita)**
[Technical, clinical and economic aspects of automatic cardioverter-defibrillator implants] Trusz-Gluza M. **Kardiol Pol** 1989;32(7–9):361–5 (25 ref.) **(Pol)**
[Implantation of an automatic cardioverter-defibrillator—case report] Trusz-Gluza M, et al. **Kardiol Pol** 1989;32(7–9):404–8 (Eng. Abstr.) **(Pol)**
[A new method of treating ventricular fibrillation using an automatic implantable defibrillator] Jonsson E, et al. **Lakartidningen** 1989 Oct 11;86(41):3453, 3455 **(Swe)**
[The automatic implantable defibrillator is an established preventive method against sudden cardiac death] Sandstedt B, et al. **Lakartidningen** 1989 Dec 13;86(50):4413 **(Swe)**
[An implantable defibrillator saves lives in ventricular arrhythmia] Sandstedt B. **Lakartidningen** 1990 Mar 28; 87(13):1055–8 **(Swe)**

METHODS

Sequential pulse internal defibrillation: is there an advantage to "switched" current pathways? Fain ES, et al. **Am Heart J** 1989 Oct;118(4):717–24
Nonsynchronized direct-current countershock. Kreus KE, et al. **Am Heart J** 1967 Aug;74(2):286–7
Automatic implantable cardioverter defibrillator. Interpreting, treating ventricular fibrillation. Lee BL, et al. **AORN J** 1989 Dec;50(6):1218–27
Anaesthesia for cardioversion: thiopentone with and without atropine premedication. Orko R. **Br J Anaesth** 1974 Dec; 46(12):947–52
Transvenous defibrillation in humans via the coronary sinus. Bardy GH, et al. **Circulation** 1990 Apr;81(4):1252–9
Transesophageal low-energy cardioversion in an animal model of life-threatening tachyarrhythmias. Cai YC, et al. **Circulation** 1989 Nov;80(5):1354–9
Effect of epicardial patch electrodes on transthoracic defibrillation. Lerman BB, et al. **Circulation** 1990 Apr; 81(4):1409–14
Effect of duration of ventricular fibrillation on defibrillation efficacy in humans. Winkle RA, et al. **Circulation** 1990 May; 81(5):1477–81
Mechanism of cardiac defibrillation in open-chest dogs with unipolar DC-coupled simultaneous activation and shock potential recordings. Witkowski FX, et al. **Circulation** 1990 Jul;82(1):244–60
Clinical progress in endocardial defibrillation. Saksena S. **Clin Cardiol** 1989 Dec;12(12):709–14
Postresuscitation electrolyte changes: role of arrhythmia and resuscitation efforts in their genesis. Salerno DM, et al. **Crit Care Med** 1989 Nov;17(11):1181–6
Finite element analysis of cardiac defibrillation current distributions. Sepulveda NG, et al. **IEEE Trans Biomed Eng** 1990 Apr;37(4):354–65
DC cardioversion of supraventricular tachycardia in neonate [letter] Singh S, et al. **Indian Pediatr** 1989 Aug;26(8):846–7
Comparison of the internal defibrillation thresholds for monophasic and double and single capacitor biphasic waveforms. Kavanagh KM, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1343–9
Low energy synchronous transcatheter cardioversion of atrial flutter/fibrillation in the dog. Kumagai K, et al. **J Am Coll Cardiol** 1990 Aug;16(2):497–501
Transthoracic defibrillation using sequential and simultaneous dual shock pathways: experimental studies. Kerber RE, et al. **PACE** 1990 Feb;13(2):207–17
Continuous right ventricular volume assessment by catheter measurement of impedance for antitachycardia system control. Khoury D, et al. **PACE** 1989 Dec;12(12):1918–26
Sequential pulse countershock between two transvenous catheters: feasibility, safety, and efficacy. Yee R, et al. **PACE** 1989 Dec;12(12):1869–77
The automatic implantable cardioverter/defibrillator for a life threatening arrhythmia in a case of post-partum cardiomyopathy. Bower M, et al. **Postgrad Med J** 1989 Dec;65(770):932–5
Community defibrillation in the Scottish Highlands. Jones MC, et al. **Postgrad Med J** 1990 Feb;66(772):94–7
Catheter ablation of ventricular tachycardia. Smith RF, et al. **Trans Am Clin Climatol Assoc** 1988;100:20–30
[Intracardial shock for the conversion of chronic atrial fibrillation] Germonpré E, et al. **Ned Tijdschr Geneeskd** 1990 Jun 23;134(25):1213–6 (Eng. Abstr.) **(Dut)**
[Cardioversion by internal electric shock of permanent atrial fibrillation] Lévy S, et al. **Arch Mal Coeur** 1989 Sep; 82(9):1529–32 (16 ref.) (Eng. Abstr.) **(Fre)**
[Our experience with transvenous ablation of the atrioventricular node] Drzewiecki J, et al. **Kardiol Pol** 1989; 32(4):229–36 (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

Patient and spouse acceptance and adaptation to implantable cardioverter defibrillators. Pycha C, et al. **Cleve Clin J Med** 1990 Jul–Aug;57(5):441–4

STATISTICS & NUMERICAL DATA

The defibrillation success rate versus energy relationship: Part II—Estimation with the "bootstrap". Glinder BE, et al. **PACE** 1990 Apr;13(4):425–31

ELECTRIC FISH

Evolutionary and contemporary biology of elasmobranchs. **J Exp Zool Suppl** 1989;2:1–196

ANATOMY & HISTOLOGY

Descending connections from the brainstem to the spinal cord in the electric fish Eigenmannia. Quantitative description based on retrograde horseradish peroxidase and fluorescent-dye transport. Behrend K, et al. **Brain Behav Evol** 1990;35(4):227–39
Structural and functional organization of a diencephalic sensory-motor interface in the gymnotiform fish, Eigenmannia. Keller CH, et al. **J Comp Neurol** 1990 Mar 15;293(3):347–76
Interspecific variation in the projection of primary afferents onto the electrosensory lateral line lobe of weakly electric teleosts: different solutions to the same mapping problem. Lannoo MJ, et al. **J Comp Neurol** 1990 Apr 1;294(1):153–60
Sexual maturity-dependent changes in neuronal morphology in the prepacemaker nucleus of adult weakly electric knifefish, Eigenmannia. Zupanc GK, et al. **J Neurosci** 1989 Nov;9(11):3816–27

EMBRYOLOGY

Development of the electrosensory nervous system in Eigenmannia (Gymnotiformes): I. The peripheral nervous system. Vischer HA, et al. **J Comp Neurol** 1989 Dec 1; 290(1):16–40

GROWTH & DEVELOPMENT

Development of the electrosensory nervous system of Eigenmannia (gymnotiformes): II. The electrosensory lateral line lobe, midbrain, and cerebellum. Lannoo MJ, et al. **J Comp Neurol** 1990 Apr 1;294(1):37–58

METABOLISM

In vitro metabolism of the pro-carcinogen aflatoxin B1 by liver preparations of the calf, nurse shark and clearnose skate. Bodine AB, et al. **Comp Biochem Physiol [C]** 1989; 94(2):447–53
Enzyme reaction rate studies in electromotor neurons of the weakly electric fish Apteronotus leptorhynchus. Straatsburg IH, et al. **Histochem J** 1989 Sep–Oct; 21(9–10):609–17
Zebrin II: a polypeptide antigen expressed selectively by Purkinje cells reveals compartments in rat and fish cerebellum. Brochu G, et al. **J Comp Neurol** 1990 Jan 22; 291(4):538–52
Catecholaminergic systems in the brain of a gymnotiform teleost fish: an immunohistochemical study. Sas E, et al. **J Comp Neurol** 1990 Feb 1;292(1):127–62
Gap junction protein in weakly electric fish (Gymnotide): immunohistochemical localization with emphasis on structures of the electrosensory system. Yamamoto T, et al. **J Comp Neurol** 1989 Nov 15;289(3):509–36
Taurine accumulation by the heart of embryonic skates, Raja eglanteria. Goldstein L, et al. **J Exp Biol** 1990 May; 150:449–52
[The importance of peroxidation processes in aquatic and semiaquatic animals] Galantsev VP, et al. **Nerv Sist** 1989; 28:13–21 **(Rus)**

PHYSIOLOGY

Cell volume regulation by skate erythrocytes: role of potassium. Dickman KG, et al. **Am J Physiol** 1990 May; 258(5 Pt 2):R1217–23
Morphological, physiological and biochemical observations on skate electric organ. Fox GQ, et al. **Anat Embryol (Berl)** 1990;181(4):305–15
Patterns of electric organ discharge activity in the weakly electric fish Brienomyrus niger L. (Mormyridae). Serrier J, et al. **Exp Biol** 1989;48(5):235–44
Distinct mechanisms of modulation in a neuronal oscillator generate different social signals in the electric fish Hypopomus. Kawasaki M, et al. **J Comp Physiol [A]** 1989 Oct;165(6):731–41
Sensory coding and corollary discharge effects in mormyrid electric fish. Bell CC. **J Exp Biol** 1989 Sep;146:229–53 (80 ref.)
Coding and processing of electrosensory information in gymnotiform fish. Heiligenberg W. **J Exp Biol** 1989 Sep; 146:255–75 (37 ref.)
Membrane current responses of skate photoreceptors. Cornwall MC, et al. **J Gen Physiol** 1989 Oct;94(4):633–47
Structural and functional properties of two types of horizontal cell in the skate retina. Malchow RP, et al. **J Gen Physiol** 1990 Jan;95(1):177–98
A temporal analysis of testosterone-induced changes in electric organs and electric organ discharges of mormyrid fishes. Freedman EG, et al. **J Neurobiol** 1989 Oct; 20(7):619–34
Human chorionic gonadotropin-induced shifts in the electrosensory system of the weakly electric fish, Sternopygus. Zakon HH, et al. **J Neurobiol** 1990 Jul; 21(5):826–33
Mormyromast electroreceptor organs and their afferent fibers in mormyrid fish. II. Intra-axonal recordings show initial stages of central processing. Bell CC. **J Neurophysiol** 1990 Feb;63(2):303–18
Mormyromast electroreceptor organs and their afferent fibers in mormyrid fish. III. Physiological differences between two morphological types of fibers. Bell CC. **J Neurophysiol** 1990 Feb;63(2):319–32
The effects of postembryonic receptor cell addition on the response properties of electroreceptive afferents. Sanchez DY, et al. **J Neurosci** 1990 Jan;10(1):361–9
Multiple electrosensory maps in the medulla of weakly electric gymnotiform fish. I. Physiological differences. Shumway CA. **J Neurosci** 1989 Dec;9(12):4388–99
Multiple electrosensory maps in the medulla of weakly electric gymnotiform fish. II. Anatomical differences. Shumway CA. **J Neurosci** 1989 Dec;9(12):4400–15
Influence of high steady magnetic fields on the electrical activity of the electric fish Apteronotus. Stojan L, et al. **Z Naturforsch [C]** 1990 Mar–Apr;45(3–4):303–5
[The action of thyroliberin on the myoelectric activity of the stomach in the skate and the cod] Shparkovskii IA, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):837–44 (Eng. Abstr.) **(Rus)**

ELECTRIC INJURIES

Lightning injuries. Blount BW. **Am Fam Physician** 1990 Aug; 42(2):405–15 (47 ref.)
TRH treatment in cerebellar ataxia following a lightning stroke [letter] Morocutti C, et al. **Ital J Neurol Sci** 1989 Oct;10(5):531
Reflex sympathetic dystrophy: "gate" closed by lightning [letter] Belsole RJ, et al. **J Hand Surg [Am]** 1990 May; 15(3):523

BLOOD

Complexing of tissue plasminogen activator with PAI-1, alpha 2-macroglobulin, and C1-inhibitor: studies in patients with defibrination and a fibrinolytic state after electroshock or complicated labor. Bennett B, et al. **Blood** 1990 Feb 1;75(3):671–6

COMPLICATIONS

Acute pulmonary oedema caused by lightning. Lutalo SK, et al. **Cent Afr J Med** 1989 Nov;35(11):534–7
Clinical predictors of myocardial damage after high voltage electrical injury. Chandra NC, et al. **Crit Care Med** 1990 Mar;18(3):293–7
Bilateral humeral fractures from electrically induced muscular spasm. Stueland DT, et al. **J Emerg Med** 1989 Sep–Oct;7(5):457–9 (21 ref.)
Rhabdomyolysis due to pulsed electric fields. Bhatt DL, et al. **Plast Reconstr Surg** 1990 Jul;86(1):1–11
[A case of fracture of the 5th cervical vertebra caused by electric shock] Putti E, et al. **Chir Organi Mov** 1989 Jul–Dec;74(3–4):153–4 (Eng. Abstr.) **(Ita)**
[A case of group atmospheric electric injuries] Andreitsev AN, et al. **Klin Med (Mosk)** 1990 May;68(5):131–2 **(Rus)**
[Brachial amyotrophy as a late complication of electric trauma (letter)] Mauri Llerda JA, et al. **Neurologia** 1989 Sep;4(7):260–1 **(Spa)**

DIAGNOSIS

Brachial plexus injury caused by electric current through the ulnar nerve. Case report and review of the literature. Suematsu N, et al. **Arch Orthop Trauma Surg** 1989; 108(6):400–2 (8 ref.)
Electric shock and associated injuries. Irvine J.

Practitioner 1989 Nov 8;233(1478):1454–7

ETIOLOGY

Dangers of defibrillation: injuries to emergency personnel during patient resuscitation. Gibbs W, et al. Am J Emerg Med 1990 Mar;8(2):101–4

Helicopter wire strike accident and high voltage electrocution: a case report. Posey DM, et al. Aviat Space Environ Med 1989 Oct;60(10 Pt 2):B29–34

Attempted suicide by electrocution. Review and case report. Grumet GW. Bull Menninger Clin 1989 Nov;53(6):512–21

Automatic implantable cardioverter/defibrillator discharges and acute myocardial injury. Avitall B, et al. Circulation 1990 May;81(5):1482–7

From the Centers from Disease Control. Update: work-related electrocutions associated with Hurricane Hugo—Puerto Rico. JAMA 1989 Nov 24;262(20):2806

Update: work-related electrocutions associated with Hurricane Hugo—Puerto Rico. MMWR 1989 Oct 27; 38(42):718–20, 725

[Injuries caused by electricity] Lippestad C, et al. Tidsskr Nor Laegeforen 1990 Mar 20;110(8):946–7 (Eng. Abstr.) (Nor)

METABOLISM

Partial pressure of oxygen in brain and peripheral nerve during damaging electrical stimulation. McCreery DB, et al. J Biomed Eng 1990 Jul;12(4):309–15

MORTALITY

Lightning-related mortality and morbidity in Florida. Duclos PJ, et al. Public Health Rep 1990 May–Jun;105(3):276–82

[Danger of electricity in the bathtub] Nowak R, et al. Versicherungsmedizin 1989 Nov 1;41(6):195–7 (Eng. Abstr.) (Ger)

PATHOLOGY

Cardiac abnormalities demonstrated postmortem in four cases of accidental electrocution and their potential significance relative to nonfatal electrical injuries of the heart. James TN, et al. Am Heart J 1990 Jul;120(1):143–57

Homicide by electrocution. al-Alousi LM. Med Sci Law 1990 Jul;30(3):239–46

Suicide by electrocution. Fernando R, et al. Med Sci Law 1990 Jul;30(3):219–20

[Infarct ECG following a lightning accident] Schwab M, et al. Z Kardiol 1989 Sep;78(9):611–4 (Eng. Abstr.) (Ger)

PHYSIOPATHOLOGY

Destruction of hearing aid by lightning strike. Tandberg D, et al. Am J Emerg Med 1990 Jul;8(4):326–8

Echocardiographic observations in survivors of acute electrical injury. Homma S, et al. Chest 1990 Jan; 97(1):103–5

[The development and disappearance of electrical current in frog heart injuries induced by suction electrodes] Stojan M, et al. Sb Lek 1989 Nov;91(11–12):327–33 (Eng. Abstr.) (Cze)

[Electric injuries. Physiopathology and principles of treatment] Lippestad C, et al. Tidsskr Nor Laegeforen 1990 Mar 20;110(8):948–52 (31 ref.) (Eng. Abstr.) (Nor)

PREVENTION & CONTROL

Strategies to prevent household electrical injuries in children [letter] Bond M, et al. Am J Dis Child 1989 Oct; 143(10):1130–1

Local anaesthetic block protects against electrically-induced damage in peripheral nerve. Agnew WF, et al. J Biomed Eng 1990 Jul;12(4):301–8

NIOSH alerts on workplace hazards: exposure to chlorofluorocarbon 113 and electrocution of workers using portable metal ladders near overhead power lines. MMWR 1990 Jul 6;39(26):451–2

[Technical alternative for electric safety in invasive interventions] Anna O, et al. Biomed Tech (Berlin) 1989; 34 Suppl:134–5 (Ger)

PSYCHOLOGY

Children's defensive responses and emotional upset following a disaster: a projective assessment. Dollinger SJ, et al. J Pers Assess 1990 Spring;54(1–2):116–27

RADIOGRAPHY

[The effect of electrical injuries on the bone and cartilage structures of the hands in childhood] Trippi D, et al. Radiol Med (Torino) 1990 Apr;79(4):384–6 (Eng. Abstr.) (Ita)

SURGERY

Posterior fracture-dislocation of the shoulder joint [letter; comment] Lenghi M, et al. Clin Orthop 1990 Jan; (250):310–1 Comment on: Clin Orthop 1988 Jul;(232):197–204.

Severe electrical injury from a graphite fishing rod. Clarke AM, et al. Injury 1990 Mar;21(2):120–1

Compound injury from high-voltage electricity. Mennen U. S Afr J Surg 1989 Dec;27(5):179–81

THERAPY

Electric shock. Walpole BG. Aust Fam Physician 1989 Oct; 18(10):1252–6

ELECTRIC ORGAN

ANALYSIS

Further studies on the gangliosidic nature of the cholinergic-specific antigen, Chol-1. Giuliani A, et al. Arch Biochem Biophys 1990 Jul;280(1):211–6

An improved procedure for the isolation and purification of nicotinic acetylcholine receptor from Torpedo fuscomaculata electric organ. Kapp EA, et al. Biochim Biophys Acta 1990 Apr 23;1034(1):29–38

A 15 kDa proteolipid found in mediatophore preparations from Torpedo electric organ presents high sequence homology with the bovine chromaffin granule protonophore. Birman S, et al. FEBS Lett 1990 Feb 26; 261(2):303–6

Identification of a cytoplasmic region of the Torpedo nicotinic acetylcholine receptor alpha-subunit by epitope mapping. Pedersen SE, et al. J Biol Chem 1990 Jan 5; 265(1):569–81

A novel 87,000-Mr protein associated with acetylcholine receptors in Torpedo electric organ and vertebrate skeletal muscle. Carr C, et al. J Cell Biol 1989 Oct;109(4 Pt 1):1753–64

ENZYMOLOGY

Purification and isolation of choline acetyltransferase from the electric organ of Torpedo marmorata by affinity chromatography. Raeber AJ, et al. Eur J Biochem 1989 Dec 22;186(3):487–92

Activation of the Na+, K(+)-ATPase in Narcine brasiliensis. Blum H, et al. Proc Natl Acad Sci U S A 1990 Feb;87(3):1247–51

GROWTH & DEVELOPMENT

Asymmetric distribution of dystrophin in developing and adult Torpedo marmorata electrocyte: evidence for its association with the acetylcholine receptor-rich membrane. Jasmin BJ, et al. Proc Natl Acad Sci U S A 1990 May; 87(10):3938–41

IMMUNOLOGY

Monoclonal antibody Tor 23 binds a subset of neural cells in the human cortex and displays an altered binding distribution in Alzheimer's disease. Kushner PD, et al. J Neuropathol Exp Neurol 1989 Nov;48(6):692–708

INNERVATION

Descending connections from the brainstem to the spinal cord in the electric fish Eigenmannia. Quantitative description based on retrograde horseradish peroxidase and fluorescent-dye transport. Behrend K, et al. Brain Behav Evol 1990;35(4):227–39

METABOLISM

Cholinergic synaptic vesicles are metabolically and biophysically heterogeneous even in resting terminals. Whittaker VP. Brain Res 1990 Mar 12;511(1):113–21

Svp25, a synaptic vesicle membrane glycoprotein from Torpedo electric organ that binds calcium and forms a homo-oligomeric complex. Volknandt W, et al. EMBO J 1990 Aug;9(8):2465–70

Dystrophin in electric organ of Torpedo californica homologous to that in human muscle. Chang HW, et al. J Biol Chem 1989 Dec 15;264(35):20831–4

Altered patterns of N-linked glycosylation of the Torpedo acetylcholine receptor expressed in Xenopus oocytes. Buller AL, et al. J Membr Biol 1990 May;115(2):179–89

Phorbol esters induce neurotransmitter release in cholinergic synaptosomes from Torpedo electric organ. Guitart X, et al. J Neurochem 1990 Aug;55(2):468–72

A unique neurofilament from Torpedo electric lobe: sequence, expression, and localization analysis. Linial M, et al. J Neurochem 1990 Mar;54(3):762–70

Main immunogenic region of Torpedo electroplax and human muscle acetylcholine receptor: localization and microheterogeneity revealed by the use of synthetic peptides. Tzartos SJ, et al. J Neurochem 1990 Jan; 54(1):51–61

Phospholipid transverse diffusion in synaptosomes: evidence for the involvement of the aminophospholipid translocase. Zachowski A, et al. J Neurochem 1990 Oct;55(4):1352–6

The release of adenosine at the electric organ of Torpedo. A study using a continuous chemiluminescent method. Solsona C, et al. Neurochem Res 1990 Jan;15(1):77–82

Increase in reactive cholesterol in the presynaptic membrane of depolarized Torpedo synaptosomes: blockade by botulinum toxin type A. Egea G, et al. Neuroscience 1989; 31(2):521–7

Intraneuronal distribution of a synaptic vesicle membrane protein: antibody binding sites at axonal membrane compartments and trans-Golgi network and accumulation at nodes of Ranvier. Janetzko A, et al. Neuroscience 1989; 32(1):65–77

Comparison of lindane, bicyclophosphate and picrotoxin binding to the putative chloride channel sites in rat brain and Torpedo electric organ. Thompson RG, et al. Neurotoxicol Teratol 1990 Jan–Feb;12(1):57–63

Characterization of gastrin-releasing peptide immunoreactivity in distinct storage particles in guinea pig myenteric and Torpedo electromotor neurones. Shaw C, et al. Peptides 1990 Jan–Feb;11(1):69–74

PHYSIOLOGY

Morphological, physiological and biochemical observations on skate electric organ. Fox GQ, et al. Anat Embryol (Berl) 1990;181(4):305–15

Patterns of electric organ discharge activity in the weakly electric fish Brienomyrus niger L. (Mormyridae). Serrier J, et al. Exp Biol 1989;48(5):235–44

Sensory coding and corollary discharge effects in mormyrid electric fish. Bell CC. J Exp Biol 1989 Sep;146:229–53 (80 ref.)

Coding and processing of electrosensory information in gymnotiform fish. Heiligenberg W. J Exp Biol 1989 Sep; 146:255–75 (37 ref.)

A temporal analysis of testosterone-induced changes in electric organs and electric organ discharges of mormyrid fishes. Freedman EG, et al. J Neurobiol 1989 Oct; 20(7):619–34

Human chorionic gonadotropin-induced shifts in the electrosensory system of the weakly electric fish, Sternopygus. Zakon HH, et al. J Neurobiol 1990 Jul; 21(5):826–33

Mormyromast electroreceptor organs and their afferent fibers in mormyrid fish. III. Physiological differences between two morphological types of fibers. Bell CC. J Neurophysiol 1990 Feb;63(2):319–32

Mormyromast electroreceptor organs and their afferent fibers in mormyrid fish. II. Intra-axonal recordings show initial stages of central processing. Bell CC. J Neurophysiol 1990 Feb;63(2):303–18

Descending control of electroreception. I. Properties of nucleus praeeminentialis neurons projecting indirectly to the electrosensory lateral line lobe. Bastian J, et al. J Neurosci 1990 Apr;10(4):1226–40

Descending control of electroreception. II. Properties of nucleus praeeminentialis neurons projecting directly to the electrosensory lateral line lobe. Bratton B, et al. J Neurosci 1990 Apr;10(4):1241–53

Responses of electroreceptors in the snout of the echidna. Gregory JE, et al. J Physiol (Lond) 1989 Jul;414:521–38

Different classes of glutamate receptors mediate distinct behaviors in a single brainstem nucleus. Dye J, et al. Proc Natl Acad Sci U S A 1989 Nov;86(22):8993–7

Acetylcholine and ATP are coreleased from the electromotor nerve terminals of Narcine brasiliensis by an exocytotic mechanism. Unsworth CD, et al. Proc Natl Acad Sci U S A 1990 Jan;87(2):553–7

Steady-state coupling of ion-channel conformations to a transmembrane ion gradient. Richard EA, et al. Science 1990 Mar 9;247(4947):1208–10

[Anatomy of the nicotinic receptor] de Bengtsson MS, et al. Medicina (B Aires) 1989;49(1):71–8 (58 ref.) (Spa)

ULTRASTRUCTURE

Asymmetric distribution of phospholipids in acetylcholine receptor-rich membranes from T. marmorata electric organ. Bonini de Romanelli IC, et al. Int J Biochem 1990; 22(7):785–9

Presence of a protein immunologically related to lamin B in the postsynaptic membrane of Torpedo marmorata electrocyte. Cartaud A, et al. J Cell Biol 1989 Oct;109(4 Pt 1):1745–52

Veratridine modification of the purified sodium channel alpha-polypeptide from eel electroplax. Duch DS, et al. J Gen Physiol 1989 Nov;94(5):813–31

Recycled synaptic vesicles contain vesicle but not plasma membrane marker, newly synthesized acetylcholine, and a sample of extracellular medium. Bonzelius F, et al. J Neurochem 1990 Oct;55(4):1266–73

ELECTRIC POWER PLANTS see POWER PLANTS

ELECTRIC RAY see TORPEDO

ELECTRIC STIMULATION

see related
CARDIAC PACING, ARTIFICIAL
CHRONAXY

Long-term follow-up of a patient who received electrical stimulation for chronic vomiting [letter] Svec HJ, et al. Am J Psychiatry 1990 Apr;147(4):536–7

Electrical inhibition of pain by stimulation of the dorsal columns: preliminary clinical report. Shealy CN, et al. Anesth Analg 1967 Jul–Aug;46(4):489–91

Optimum stimulus frequency for contracting the inspiratory muscles with chest-surface electrodes to produce artificial respiration. Geddes LA, et al. Ann Biomed Eng 1990; 18(1):103–8

Effect of direct-current stimulation on the growth plate. In vivo study with rabbits. Sato O, et al. Arch Orthop Trauma Surg 1990;109(1):9–13

Muscle stimulators [letter] Delitto A, et al. Arch Phys Med Rehabil 1990 Aug;71(9):711–2

Mechanical and electrical effects of high-frequency and

high-intensity stimulation of muscle. Koniarek JP. **Bioelectromagnetics** 1989;10(4):335-45

Effects of pulse length and pulse strength on transfection by electroporation. Kubiniec RT, et al. **Biotechniques** 1990 Jan;8(1):16-20 (13 ref.)

A simple and effective electroporation apparatus. Speyer JF. **Biotechniques** 1990 Jan;8(1):28-30

Analgesic electrical stimulation of the hypothalamic arcuate nucleus: tolerance and its cross-tolerance to 2 Hz or 100 Hz electroacupuncture. Wang Q, et al. **Brain Res** 1990 Jun 4;518(1-2):40-6

Effects of bigeminies and paired-pulse stimulation on oxygen consumption in dog left ventricle. Nozawa T, et al. **Circ Res** 1990 Jul;67(1):142-53

Effect of maternal presence on the cardiac and behavioral responses to shock in rats as a function of age. Richardson R, et al. **Dev Psychobiol** 1989 Sep;22(6):567-83

Evoked potentials. Brain stimulation. **Electroencephalogr Clin Neurophysiol** 1989 Nov-Dec; 74(6):401-85

A comparison of corticospinal activation by magnetic coil and electrical stimulation of monkey motor cortex. Amassian VE, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep-Oct; 77(5):390-401

Focal stimulation of human cerebral cortex with the magnetic coil: a comparison with electrical stimulation. Amassian VE, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov-Dec;74(6):401-16

Comparison of human transcallosal responses evoked by magnetic coil and electrical stimulation. Cracco RQ, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov-Dec; 74(6):417-24

A comparison of magnetic and electrical stimulation of facial nerve at the cerebello-pontine angle in the dog. Estrem SA, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):558-60

Parameters for direct cortical electrical stimulation in the human: histopathologic confirmation. Gordon B, et al. **Electroencephalogr Clin Neurophysiol** 1990 May;75(5):371-7

Trans-cranial electrical stimulation attenuates abrupt morphine withdrawal in rats assayed by remote computerized quantification of multiple motor behavior indices. Dougherty PM, et al. **Eur J Pharmacol** 1990 Jan 10;175(2):187-95

The relative efficacy of monopolar vs. bipolar electrodes in stimulation-produced analgesia. Thorn BE, et al. **Exp Brain Res** 1990;79(2):266-70

The influence of stimulation pulse frequency on the generation of joint moments in the upper limb. Nathan R, et al. **IEEE Trans Biomed Eng** 1990 Mar;37(3):317-22

Myoelectric prostheses for below-elbow amputees: the Trent experience. Datta D, et al. **Int Disabil Stud** 1989 Oct-Dec; 11(4):167-70

Nerve growth in a small applied electric field and the effects of pharmacological agents on rate and orientation. McCaig CD. **J Cell Sci** 1990 Apr;95 (Pt 4):617-22

Nerve branching is induced and oriented by a small applied electric field. McCaig CD. **J Cell Sci** 1990 Apr;95 (Pt 4):605-15

Functional recovery after spinal cord hemisection in guinea pigs: the effects of applied electric fields. Borgens RB, et al. **J Comp Neurol** 1990 Jun 22;296(4):634-53

Peripheral nerve block with use of nerve stimulator. Zahari DT, et al. **J Foot Surg** 1990 Mar-Apr;29(2):162-3

Effects of long-impulse electrical stimulation on atrophy and fibre type composition of chronically denervated fast rabbit muscle. Mokrusch T, et al. **J Neurol** 1990 Feb;237(1):29-34 (56 ref.)

Neurogenic inflammation in the airways: characterisation of electrical parameters for vagus nerve stimulation in the guinea pig. Belvisi MG, et al. **J Neurosci Methods** 1990 May;32(2):159-67

Effect of direct current stimulation on bone growth after distraction epiphysiolysis of the rabbit tibia. van Roermund PM, et al. **J Orthop Res** 1990 Sep;8(5):769-75

Peripheral nerve stimulation by induced electric currents: exposure to time-varying magnetic fields. Reilly JP. **Med Biol Eng Comput** 1989 Mar;27(2):101-10 (31 ref.)

Collection and quality of rhesus monkey semen. Lanzendorf SE, et al. **Mol Reprod Dev** 1990 Jan;25(1):61-6

Effects of intermittent high frequency electrical stimulation on denervated EDL muscle of rabbit. Nix WA. **Muscle Nerve** 1990 Jul;13(7):580-5

Pre-weaning handling reduces adrenocorticotropin response to novel but not to noxious stimuli in adult rats. Hamamura M, et al. **Neurosci Lett** 1989 Nov 6;105(3):312-5

The use of electrically stimulated skeletal muscle to pump blood. Geddes LA, et al. **PACE** 1990 Mar;13(3):344-62

Programmed ventricular stimulation during variant angina: report of a case. Lemery R, et al. **PACE** 1989 Dec; 12(12):1878-83

The effects of the electroejaculation procedure on sperm motility. Linsenmeyer T, et al. **Paraplegia** 1989 Dec; 27(6):465-9

Relations between chronic stimulation-induced changes in contractile properties and the Ca2+-sequestering system of rat and rabbit fast-twitch muscles. Simoneau JA, et al. **Pflugers Arch** 1989 Sep;414(6):629-33

Rats' short-term memory for brief electrical stimulation of the ventral tegmental area of the brain. Wilkie DM, et al. **Physiol Behav** 1989 Sep;46(3):387-91

Characterization of dilatation induced by electrical field stimulation in mammalian cerebral and peripheral vessels. Hardebo JE, et al. **Q J Exp Physiol** 1989 Jul;74(4):475-91

[Physical and biophysical aspects of high-energy intracardiac electric discharges. I. The discharge bubble] Fontaine G, et al. **Ann Cardiol Angeiol (Paris)** 1990 Jun;39(6):319-25 (Eng. Abstr.) (Fre)

[Effect of transcranial electrical stimulation on sleep in rats] Lendais I, et al. **C R Soc Biol (Paris)** 1989;183(4):329-36 (Eng. Abstr.) (Fre)

[Effect of electric stimulation of the caudate nucleus on the foci of epileptic activity in the cerebral cortex] Maku'lkin RF, et al. **Fiziol Zh** 1989 Nov-Dec;35(6):25-33 (Eng. Abstr.) (Rus)

[Reactions of cat motor cortex neurons to stimulation of the pyramidal tract and ventroposterolateral thalamic nuclei] Radionov VA, et al. **Fiziol Zh** 1989 Nov-Dec;35(6):18-25 (Eng. Abstr.) (Rus)

[Use of transesophageal electrostimulation of the atrium and nitroglycerin test in the evaluation of the degree of risk of the development of cardiac complications after reconstructive surgery in patients with Leriche's syndrome] Gusak VK, et al. **Klin Khir** 1989;(7):43-4 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

An engineering critical incident: direct current burn from a neuromuscular stimulator. Cooper JB, et al. **Anesthesiology** 1990 Jul;73(1):168-72

Reversible large-scale deformations in the membranes of electrically-treated cells: electroinduced bleb formation. Gass GV, et al. **Biochim Biophys Acta** 1990 Mar 30; 1023(1):1-11

Local anaesthetic block protects against electrically-induced damage in peripheral nerve. Agnew WF, et al. **J Biomed Eng** 1990 Jul;12(4):301-8

Partial pressure of oxygen in brain and peripheral nerve during damaging electrical stimulation. McCreery DB, et al. **J Biomed Eng** 1990 Jul;12(4):309-15

INSTRUMENTATION

Frequency of repeated neuromuscular stimulation [letter] Bayly PJ. **Anaesthesia** 1990 Feb;45(2):171

A functional electric stimulation system using an electrode garment. Patterson RP, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):340-2

The inductorium: the stimulator associated with discovery. Geddes LA, et al. **Biomed Instrum Technol** 1989 Jul-Aug; 23(4):308-13

Axillary plexus block using a peripheral nerve stimulator: single or multiple injections. Lavoie J, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S39

Electrode characterization for functional application to upper extremity FNS. Kilgore KL, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):12-21

A constant current device for bipolar electrical stimulation in vitro [letter] Jamieson M, et al. **J Biomed Eng** 1990 Mar; 12(2):173-4

Brain stimulation revisited. Cracco JB, et al. **J Clin Neurophysiol** 1990 Jan;7(1):3-15

A study on the effect of electrical stimulation on living tissue: potential before, during and after galvanization with constant current of 20 microA through platinum electrodes. Kubota T, et al. **Nippon Juigaku Zasshi** 1990 Apr; 52(2):315-9

[Pocket nerve stimulators: are they suitable for monitoring curarization?] Meistelman C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R134 (Fre)

[A computer-controlled study design for measuring H-reflexes in the human] Dannemann J, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:233-4 (Ger)

[Inductive stimulation] Eichhorn KF, et al. **Biomed Tech (Berlin)** 1990 Jun;35(6):139-44 (Eng. Abstr.) (Ger)

[Localization of nerve fascicles with stimulation electrodes used for plexus anesthesia] Kitzenmaier P, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:107-8 (Ger)

[Chronic thresholds in ventricular endocavitary stimulation with porous vitreous carbon electrodes] Gomes L, et al. **Rev Port Cardiol** 1988 Sep-Oct;7(5):499-502 (Eng. Abstr.) (Por)

[A program module] Kuliev EI, et al. **Zh Vyssh Nerv Deiat** 1990 Mar-Apr;40(2):401-2 (Rus)

METHODS

Initial results with simultaneous analog and pulsatile stimulation of the cochlea. von Wallenberg EL, et al. **Acta Otolaryngol Suppl (Stockh)** 1990;469:140-9

Retro-labyrinthine disorders detected by galvanic body sway responses in routine equilibrium examinations. Watanabe Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:343-8

Prognostic significance of sustained monomorphic ventricular tachycardia induced by programmed ventricular stimulation using up to triple extrastimuli in survivors of acute myocardial infarction. Iesaka Y, et al. **Am J Cardiol** 1990 May 1;65(16):1057-63

Stimulation with submaximal current for train-of-four monitoring. Brull SJ, et al. **Anesthesiology** 1990 Apr; 72(4):629-32

Comparison of three methods of electrical stimulation for converting skeletal muscle to a fatigue resistant power source suitable for cardiac assistance. Badylak SF, et al. **Ann Biomed Eng** 1990;18(3):239-50

Comparison of high- and low-frequency muscle stimulators. Grimby G, et al. **Arch Phys Med Rehabil** 1989 Nov; 70(12):835-8

Electroejaculatory stimulation of a quadriplegic man resulting in pregnancy. Hirsch IH, et al. **Arch Phys Med Rehabil** 1990 Jan;71(1):54-7

Magnetoelectric stimulation of human motor cortex: normal values and potential safety issues in spinal cord injury. Katz RT, et al. **Arch Phys Med Rehabil** 1990 Jul;71(8):597-600

Introduction and expression of DNA molecules in eukaryotic cells by electroporation [published erratum appears in Biotechniques 1988 Oct;6(9):853] Andreason GL, et al. **Biotechniques** 1988 Jul-Aug;6(7):650-60 (62 ref.)

Electroporation of eukaryotes and prokaryotes: a general approach to the introduction of macromolecules into cells. Shigekawa K, et al. **Biotechniques** 1988 Sep;6(8):742-51

Urinary bladder cortical evoked potentials in man: suitable stimulation techniques. Deltenre PF, et al. **Br J Urol** 1989 Oct;64(4):381-4

Magnetic stimulation of the human peripheral nerves. Chokroverty S. **Electromyogr Clin Neurophysiol** 1989 Nov-Dec;29(7-8):409-16

Induced current constraints and capacitive effects in inductive nerve stimulation. McCarthy S, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):598-605

A model of the stimulation of a nerve fiber by electromagnetic induction. Roth BJ, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):588-97

High-efficiency coupling-insensitive transcutaneous power and data transmission via an inductive link. Zierhofer CM, et al. **IEEE Trans Biomed Eng** 1990 Jul;37(7):716-22

Mandibular reconstruction using electrically stimulated periosteum. Kamegai A, et al. **J Craniomaxillofac Surg** 1990 Jan;18(1):8-13

Simulation of motion on the skin. I. Receptive fields and temporal frequency coding by cutaneous mechanoreceptors of OPTACON pulses delivered to the hand. Gardner EP, et al. **J Neurophysiol** 1989 Dec;62(6):1410-36

Simulation of motion on the skin. II. Cutaneous mechanoreceptor coding of the width and texture of bar patterns displaced across the OPTACON. Gardner EP, et al. **J Neurophysiol** 1989 Dec;62(6):1437-60

A technique for eliciting muscular reflex responses using position controlled dc motors. Holl G, et al. **J Neurosci Methods** 1990 Jun;32(3):207-11

Visual sensations produced by intracortical microstimulation of the human occipital cortex. Bak M, et al. **Med Biol Eng Comput** 1990 May;28(3):257-9

Single-channel versus multichannel electrical stimulation. Voicing-frequency and formant-transition difference limens. Kuk FK. **Scand Audiol** 1989;18(3):149-53

[Value of transesophageal auricular stimulation for evaluating the accessory pathway and effect of treatment in Wolf-Parkinson-White syndrome] Kieny JR, et al. **Arch Mal Coeur** 1989 Sep;82(9):1585-93 (Eng. Abstr.) (Fre)

[New possibilities for electrophysiologic diagnosis of the heart with transesophageal stimulation of the left atrium and ventricle] Prochaczek F. **Pol Tyg Lek** 1989 Feb 6; 44(6):158-61 (Pol)

[Programming VTIM physiologic pacemakers (evoked QT)] Trabucco HO, et al. **Medicina (B Aires)** 1989;49(1):37-42 (Eng. Abstr.) (Spa)

[Vascular effects of spinal cord electrostimulation. Possible mechanisms of action] Herreros J, et al. **Rev Esp Fisiol** 1989;45 Suppl:177-84 (Eng. Abstr.) (Spa)

ELECTRIC STIMULATION THERAPY

Electric current distribution in tissues upon electrotherapy. Lambert H, et al. **Acta Belg Med Phys** 1989 Apr-Jun; 12(2):31-40

Effects of a weak diffuse-brain-stimulation on insomniacs with vibration syndrome. Seno H, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(5):289-94

Laryngeal pacemaker: activity of the posterior cricoarytenoid muscle (PCM) and the diaphragm during respiration in sheep. Zrunek M, et al. **Acta Otolaryngol (Stockh)** 1989 Sep-Oct;108(3-4):311-6

5th Annual International Symposium on Acupuncture and Electro-therapeutics. October 19-22, 1989, New York City. Abstracts. **Acupunct Electrother Res** 1989; 14(3-4):253-334

Electrochemical treatment of cancer. IV: Leukocyte and platelet counts in peripheral blood after electrochemical treatment of solitary lung neoplasma. Beving H, et al. **Am J Clin Oncol** 1990 Apr;13(2):167-70

Electrochemical treatment of cancer. III: Plasma pharmacokinetics of adriamycin after intraneoplastic administration. Eksborg S, et al. **Am J Clin Oncol** 1990 Apr;13(2):164-6

The conservative management of patients with symptoms of stress incontinence: a randomized, prospective study comparing weighted vaginal cones and interferential therapy. Oláh KS, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):87-92

Electrical stimulation and wound healing. Weiss DS, et al. **Arch Dermatol** 1990 Feb;126(2):222-5 (32 ref.)

Laryngeal pacing in unilateral vocal cord paralysis. An experimental study. Kojima H, et al.

Arch Otolaryngol Head Neck Surg 1990 Jan;116(1):74–8
Induced emission of sperm utilizing electrical stimulation of the seminal vesicles and vas deferens. Bensman A, et al. Arch Phys Med Rehabil 1966 Jul;47(7):436–43
High-voltage pulsed direct current: effect on edema formation after hyperflexion injury. Bettany JA, et al. Arch Phys Med Rehabil 1990 Aug;71(9):677–81
Energy consumption in paraplegic ambulation using the reciprocating gait orthosis and electric stimulation of the thigh muscles. Hirokawa S, et al. Arch Phys Med Rehabil 1990 Aug;71(9):687–94
Electric muscle stimulation for pressure sore prevention: tissue shape variation. Levine SP, et al. Arch Phys Med Rehabil 1990 Mar;71(3):210–5
Blood flow in the gluteus maximus of seated individuals during electrical muscle stimulation. Levine SP, et al. Arch Phys Med Rehabil 1990 Aug;71(9):682–6
Contractile response to electrical stimulation of the small intestine in anesthetized and awake dogs. Moritz A, et al. Artif Organs 1989 Dec;13(6):553–7
Effect of the anesthetic agent propofol on hormonal responses to ECT. Mitchell P, et al. Biol Psychiatry 1990 Aug 15;28(4):315–24
Peripheral vascular disease [letter; comment] Illis LS, et al. BMJ 1989 Nov 4;299(6708):1166 Comment on: BMJ 1989 Oct 7;299(6704):873.
Control of defecation in patients with spinal injuries by stimulation of sacral anterior nerve roots. MacDonagh RP, et al. BMJ 1990 Jun 9;300(6738):1494–7
A demonstration that the risk of postoperative deep venous thrombosis is reduced by stimulating the calf muscles electrically during the operation. Doran FS, et al. Br J Surg 1967 Aug;54(8):686–9
Effects of external and direct pudendal nerve maximal electrical stimulation in the treatment of the uninhibited overactive bladder. Ohlsson BL, et al. Br J Urol 1989 Oct; 64(4):374–80
Observation of the curative effect of external counter-pulsation therapy on progressive muscular dystrophy. Zhang SS, et al. Chin Med J [Engl] 1989 Apr; 102(4):290–5
The efficacy of direct current electrical stimulation to enhance canine spinal fusions. Kahanovitz N, et al. Clin Orthop 1990 Feb;(251):295–9
Osteonecrosis of the femoral head. Results of core decompression and grafting with and without electrical stimulation. Steinberg ME, et al. Clin Orthop 1989 Dec; (249):199–208
Electrotherapy in mice: dopaminergic and noradrenergic effects in the Tail Suspension Test. Teste JF, et al. Fundam Clin Pharmacol 1990;4(1):39–47
Electrical stimulation of skin. Reich JD, et al. Int J Dermatol 1990 Jul–Aug;29(6):395–400 (35 ref.)
Control of functional electrical stimulation with extended physiological proprioception. Kirtley C, et al. J Biomed Eng 1990 May;12(3):183–8
Recruitment, force and fatigue characteristics of quadriceps muscles of paraplegics isometrically activated by surface functional electrical stimulation. Levy M, et al. J Biomed Eng 1990 Mar;12(2):150–6
The remedial electromagnetic field. Lightwood R. J Biomed Eng 1989 Sep;11(5):429–36 (14 ref.)
Exogenous electric current can reduce the formation of hypertrophic scars. Weiss DS, et al. J Dermatol Surg Oncol 1989 Dec;15(12):1272–5
Facilitation of ventricular tachycardia initiation by procainamide during programmed ventricular stimulation in patients with heart failure. Stevenson WG, et al. J Electrocardiol 1990 Jan;23(1):77–83
Cardiac assistance by atrial or ventricular cardiomyoplasty. Chachques JC, et al. J Heart Transplant 1990 May–Jun; 9(3 Pt 1):239–51
Dynamic cardiomyoplasty in patients. Magovern GJ, et al. J Heart Transplant 1990 May–Jun;9(3 Pt 1):258–63
Alleviation of acquired stuttering with human centremedian thalamic stimulation. Bhatnagar SC, et al. J Neurol Neurosurg Psychiatry 1989 Oct;52(10):1182–4
Long term effect of low frequency chronic electrical stimulation on the fast hind limb muscles of dystrophic mice. Dangain J, et al. J Neurol Neurosurg Psychiatry 1989 Dec;52(12):1382–9
Therapeutic possibilities of chronic low frequency electrical stimulation in children with Duchenne muscular dystrophy. Scott OM, et al. J Neurol Sci 1990 Feb;95(2):171–82
Electrotherapy and hyperbaric oxygen: promising treatments for postradiation complications. King GE, et al. J Prosthet Dent 1989 Sep;62(3):331–4
Devices for the diagnosis and treatment of temporomandibular disorders. Part III: Thermography, ultrasound, electrical stimulation, and electromyographic biofeedback [published erratum appears in J Prosthet Dent 1990 May;63(5):13A] Mohl ND, et al. J Prosthet Dent 1990 Apr;63(4):472–7 (64 ref.)
Effects of bilateral transvenous diaphragm pacing on hemodynamic function in patients after cardiac operations. Experimental and clinical study. Ishii K, et al. J Thorac Cardiovasc Surg 1990 Jul;100(1):108–14
Phrenic nerve pacing of the quadriplegic patient. Miller JI, et al. J Thorac Cardiovasc Surg 1990 Jan;99(1):35–9; discussion 39–40
Neuroprostheses in the management of incontinence in myelomeningocele patients. Schmidt RA, et al. J Urol 1990 Apr;143(4):779–82
Foot salvage and improvement of microvascular blood flow as a result of epidural spinal cord electrical stimulation. Jacobs MJ, et al. J Vasc Surg 1990 Sep;12(3):354–60
The effects of a single high voltage electrical stimulation with an anticancer drug on in vivo growing malignant tumors. Okino M, et al. Jpn J Surg 1990 Mar;20(2):197–204
Augmented analgesic effects of L-tryptophan combined with low current transcranial electrostimulation. Malin DH, et al. Life Sci 1990;47(4):263–7
Experience with spinal cord stimulation (SCS) in the management of chronic pain in a traumatic transverse lesion syndrome. Buchhaas U, et al. Neurosurg Rev 1989;12 Suppl 1:582–7
The use of electricity in bone healing. Uhl RL. Orthop Rev 1989 Oct;18(10):1045–50 (44 ref.)
Dynamic rehabilitation of the paralyzed face—II. Electronic control of the reinnervated facial musculature from the contralateral side in the rabbit. Broniatowski M, et al. Otolaryngol Head Neck Surg 1989 Sep;101(3):309–13
Failure in phrenic pacing induced by varicella [letter] Doblas A, et al. PACE 1989 Dec;12(12):1961–2
The use of an electrically activated valve to control preload and provide maximal muscle blood flow with a skeletal-muscle ventricle. Geddes LA, et al. PACE 1990 Jun;13(6):783–95
Stimulation-produced analgesia and its cross-tolerance between dorsal and ventral PAG loci. Nichols DS, et al. Pain 1990 Jun;41(3):347–52
Effect of electrical stimulation on survival of skin flaps in pigs. Im MJ, et al. Phys Ther 1990 Jan;70(1):37–40
Acrocyanosis in a spinal cord injured patient—effects of computer-controlled neuromuscular electrical stimulation: a case report. Twist DJ. Phys Ther 1990 Jan;70(1):45–9
Efficacy of the Drionic unit [letter; comment] Dobson R. Practitioner 1989 Jun 22;233(1471):895 Comment on: Practitioner 1988 Sep 8;232(1454 (Pt 1)):953–6.
Control mechanisms for restoring posture and movements in paraplegics. Quintern J, et al. Prog Brain Res 1989; 80:489–502; discussion 479–80
Effect of electro-motor stimulation on the power production of a maximally stretched muscle. Tachino K, et al. Scand J Rehabil Med 1989;21(3):147–50
Lateral electrical surface stimulation in idiopathic scoliosis. Experience in two private practices. Swank SM, et al. Spine 1989 Dec;14(12):1293–5
Dorsal column stimulation in the treatment of multiple sclerosis. Goodman SJ, et al. Surg Forum 1978;29:507–9
Effect of application of current on the paravertebral muscles of a primate model for kyphosis. Hemmy DC, et al. Surg Forum 1978;29:518–20
Nifedipine pretreatment for autonomic dysreflexia during electroejaculation. Steinberger RE, et al. Urology 1990 Sep; 36(3):228–31
[Epidural stimulation in arteritic patients] Herreros J. Ann Cardiol Angeiol (Paris) 1989 Oct;38(8):449–53 (Eng. Abstr.) (Fre)
[Comparison of the antalgic effects of transcutaneous vibratory and electric stimulation and placebo in chronic pain (letter)] Guieu R, et al. Presse Med 1989 Dec 2; 18(40):1978 (Fre)
[Phrenic stimulation in C1–C2 tetraplegia. Apropos of a case] Ordronneau J, et al. Rev Mal Respir 1989;6(5):469–71 (Eng. Abstr.) (Fre)
[Spinal cord stimulation and surgical cordotomy for nerve root scars following herniated lumbar disk intervention] Probst C. Clin Ter 1989 Nov 15;131(3):145–7 (Ita)
[Direct current therapy with chemotherapy for the local control of lung cancer] Matsushima Y, et al. Nippon Gan Chiryo Gakkai Shi 1989 Oct 20;24(10):2341–8 (Eng. Abstr.) (Jpn)
[Effects and indications of spinal cord stimulation on the vegetative syndrome] Funahashi K, et al. No Shinkei Geka 1989 Oct;17(10):917–23 (Eng. Abstr.) (Jpn)
[Electric stimulation of the pelvis (letter)] Klevmark B, et al. Tidsskr Nor Laegeforen 1990 Jun 10;110(15):1988 (Nor)
[Therapeutic electrostimulation as a method for restoring visual and psychic function] Shandurina AN, et al. Fiziol Cheloveka 1989 May–Jun;15(3):69–77 (Rus)
[Effects of transcranial electrostimulation of the opioid systems on reparative processes in patients with myocardial infarct] Golikov AP, et al. Kardiologiia 1989 Dec; 29(12):45–8 (Eng. Abstr.) (Rus)
[An allograft for stimulation of regeneration of the connective tissue] Pekarskiĭ VV, et al. Klin Khir 1990; (2):67–8 (Rus)
[Possibilities of conservative treatment of scoliosis] Ishal VA. Ortop Travmatol Protez 1990 Mar;(3):74–7 (Rus)
[The effect of magnesium sulfate electrophoresis and galvanization on the mineralization of teeth and bones] Varava GN, et al. Stomatologiia (Mosk) 1990 May–Jun; 69(3):12–4 (Eng. Abstr.) (Rus)
[Balloon dilatation of the right coronary artery and permanent atrial electric stimulation in ischemic heart disease complicated by sick sinus syndrome] Silin VA, et al. Vestn Khir 1989 Aug;144(8):58–60 (Rus)
[The use of potassium-magnesium-sodium chloride-sulfate mineral water and direct current (experimental research)] Mishchuk AV, et al. Vopr Kurortol Fizioter Lech Fiz Kult 1989 May–Jun; (3):65–6 (Eng. Abstr.) (Rus)
[The combined action of selenium and a galvanic current in experimental atherosclerosis] Pertsovskiĭ AI, et al. Vopr Kurortol Fizioter Lech Fiz Kult 1989 Jul–Aug;(4):54–6 (Rus)
[Use of combined neuro-myo-electric stimulation in the treatment of compression injuries of the peripheral nerves] Laskov VB. Zh Nevropatol Psikhiatr 1989;89(12):32–6 (Eng. Abstr.) (Rus)
[Our results of electrobiologic stimulation of callus] Sep D, et al. Med Pregl 1989;42(11–12):445–50 (Eng. Abstr.) (Ser)
[Electrical and electromagnetic stimulation of bone healing] Simko P, et al. Bratisl Lek Listy 1990 Jan;91(1):62–5 (Eng. Abstr.) (Slo)

HISTORY

Amo Amand/Amant. Goldblatt D. Semin Neurol 1990 Jun; 10(2):210–6

INSTRUMENTATION

Electrochemical treatment of cancer. I: Variable response to anodic and cathodic fields. Nordenström BE. Am J Clin Oncol 1989 Dec;12(6):530–6
The future of electronic pacing in laryngeal rehabilitation. Broniatowski M, et al. Am J Otolaryngol 1990 Jan–Feb; 11(1):51–62 (38 ref.)
A canine model for global control of the reimplanted larynx. A potential avenue for human laryngeal transplantation. Broniatowski M, et al. ASAIO Trans 1989 Jul–Sep; 35(3):487–9
Fine control of reinnervated muscle. Dynamic rehabilitation of facial paralysis. Grundfest-Broniatowski S, et al. ASAIO Trans 1989 Jul–Sep;35(3):484–6
Model of intestinal continence using an implantable pulse generator and a myoprosthetic sphincter. Rosenberg PH, et al. ASAIO Trans 1989 Jul–Sep;35(3):222–5
Technology and long-term application of an epineural electrode. Thoma H, et al. ASAIO Trans 1989 Jul–Sep; 35(3):490–4
Uniformity of current density under stimulating electrodes. Kim Y, et al. Crit Rev Biomed Eng 1990;17(6):585–619 (28 ref.)
Comments on "A Spiral Nerve Cuff Electrode for Peripheral Nerve Stimulation" [comment] Racz GB, et al. IEEE Trans Biomed Eng 1989 Nov;36(11):1140–1 Comment on: IEEE Trans Biomed Eng 1988 Nov;35(11):905–16.
Biology of the sweat glands [letter; comment] Tapper R. J Am Acad Dermatol 1990 Apr;22(4):699–700 Comment on: J Am Acad Dermatol 1989 May;20(5 Pt 1):713–26.
Neurophysiological and technical considerations for the design of an implantable phrenic nerve stimulator. Talonen PP, et al. Med Biol Eng Comput 1990 Jan;28(1):31–7
A pilot study of a Neuro-Stimulator Device vs. methadone in alleviating opiate withdrawal symptoms. Elmoghazy E, et al. NIDA Res Monogr 1989;95:388–9
The RGO Generation II: muscle stimulation powered orthosis as a practical walking system for thoracic paraplegics [published erratum appears in Orthopedics 1989 Dec;12(12):1522] Solomonow M, et al. Orthopedics 1989 Oct;12(10):1309–15
Phrenic nerve stimulation for central ventilatory failure with bipolar and four-pole electrode systems. Baer GA, et al. PACE 1990 Aug;13(8):1061–72
Sacral epidural electrodes for voiding in the chronic spinal dog. Walter JS, et al. Stereotact Funct Neurosurg 1989; 53(2):113–24
[Vaginal electrostimulation with the CONTERG apparatus in the treatment of urinary incontinence] Zmrhal J, et al. Cesk Gynekol 1989 Jun;54(5):332–40 (Eng. Abstr.) (Cze)
[Diaphragm pacing by electric stimulation of the phrenic nerves] Biering-Sørensen F, et al. Ugeskr Laeger 1990 Apr 16;152(16):1143–5 (Eng. Abstr.) (Dan)
[Painful postoperative lumbosacral fibrosis and its treatment with electrical posterior cord stimulation] Siegfried J. Aktuel Probl Chir Orthop 1989;35:118–20 (Ger)
[Technical alternative for electric safety in invasive interventions] Anna O, et al. Biomed Tech (Berlin) 1989; 34 Suppl:134–5 (Ger)
[Carbon as a conductor for stimulation electrodes] Bolz A, et al. Biomed Tech (Berlin) 1989;34 Suppl:66–7 (Ger)
[Measuring force distribution of the hand surface in grasping] Guttenberg U, et al. Biomed Tech (Berlin) 1989;34 Suppl:157–8 (Ger)
[Use of evolution strategy as a control algorithm in functional electrostimulation] Helgason T, et al. Biomed Tech (Berlin) 1989;34 Suppl:159–60 (Ger)
[Electrostimulation of ileum and jejunum reservoirs in an acute and chronic experiment] Moritz A, et al. Langenbecks Arch Chir 1989;374(5):267–71 (Eng. Abstr.) (Ger)
[Respiratory aid using a diaphragmatic pacemaker in high paraplegia] Dengg K, et al. Padiatr Padol 1990;25(1):11–7 (Eng. Abstr.) (Ger)
[Surgical treatment of spastic bladder paralysis in paraplegic patients. Sacral deafferentation with implantation of a sacral anterior root stimulator] Sauerwein D. Urologe [A] 1990 Jul;29(4):196–203 (Eng. Abstr.) (Ger)
[Clinical use of neurostimulation] Schmidt RA, et al. Urologe [A] 1990 Jul;29(4):191–5 (Eng. Abstr.) (Ger)
[Principles and indications of electrostimulation of the

urinary bladder] Tanagho EA. **Urologe [A]** 1990 Jul; 29(4):185–90 (32 ref.) (Eng. Abstr.) (Ger)

[Urodynamic results before and following vaginal electrostimulation in the treatment of urinary incontinence in the female] Zmrhal J, et al. **Zentralbl Gynakol** 1989; 111(20):1374–8 (Eng. Abstr.) (Ger)

METHODS

Diaphragmatic pacing in the treatment of chronic respiratory insufficiency of quadriplegic patients. De Boeck H, et al. **Acta Chir Belg** 1989 Sep–Oct;89(5):276–80

Construction of a neoanal sphincter by transposition of the gracilis muscle and prolonged neuromuscular stimulation for the treatment of faecal incontinence. Willams NS, et al. **Ann R Coll Surg Engl** 1990 Mar;72(2):108–13

Use of low voltage electric therapy in the treatment of psoriasis. Fakhri O. **Arch Dermatol Res** 1990;282(3):203–5

Upper limb functions regained in quadriplegia: a hybrid computerized neuromuscular stimulation system. Nathan RH, et al. **Arch Phys Med Rehabil** 1990 May;71(6):415–21

Functional neuromuscular stimulation for standing after spinal cord injury. Yarkony GM, et al. **Arch Phys Med Rehabil** 1990 Mar;71(3):201–6

Percutaneous catheter modification of the atrioventricular node. A potential cure for atrioventricular nodal reentrant tachycardia. Epstein LM, et al. **Circulation** 1989 Oct; 80(4):757–68

The effect of electrical stimulation on osteonecrosis of the femoral head. Trancik T, et al. **Clin Orthop** 1990 Jul; (256):120–4

Restoration of gastrointestinal continuity and continence after abdominoperineal excision of the rectum using an electrically stimulated neoanal sphincter. Williams NS, et al. **Dis Colon Rectum** 1990 Jul;33(7):561–5

Closed-chest electrical ablation (fulguration) of atrioventricular accessory pathway in the Wolff–Parkinson–White syndrome: report of the first case in Hawaii [published erratum appears in Hawaii Med J 1990 May;49(5):following 145] Shen EN. **Hawaii Med J** 1990 Mar;49(3):92–7, 104

Objective methods for evaluation of interferential therapy in the treatment of incontinence. Green RJ, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):615–23

The biological effects of a pulsed electrostatic field with specific reference to hair. Electrotrichogenesis. Maddin WS, et al. **Int J Dermatol** 1990 Jul–Aug;29(6):446–50

Idiopathic anejaculation treated by electroejaculation. Stewart DE, et al. **Int J Psychiatry Med** 1989;19(3):263–8

Electrical stimulation. Tanagho EA. **J Am Geriatr Soc** 1990 Mar;38(3):352–5

Temporal and spatial summation caused by aortic nerve stimulation in rabbits. Effects of stimulation frequencies and amplitudes. Peters TK, et al. **J Auton Nerv Syst** 1989 Aug; 27(3):193–205

Rehabilitation of atrophied muscle in the rheumatoid arthritic hand: a comparison of two methods of electrical stimulation. Oldham JA, et al. **J Hand Surg [Br]** 1989 Aug; 14(3):294–7

Treatment of venomous bite by high voltage direct current. Osborn CD. **J Okla State Med Assoc** 1990 Jan;83(1):9–14

Electrical muscle stimulation for pressure variation at the seating interface. Levine SP, et al. **J Rehabil Res Dev** 1989 Fall;26(4):1–8

Multiple graft harvestings from deep partial-thickness scald wounds healed under the influence of weak direct current. Chu CS, et al. **J Trauma** 1990 Aug;30(8):1044–9; discussion 1049–50

Predictors of success in electroejaculation of spinal cord injured men. Ohl DA, et al. **J Urol** 1989 Dec;142(6):1483–6

Electroejaculation in spinal cord injury patients: simplified new equipment and technique. Perkash I, et al. **J Urol** 1990 Feb;143(2):305–7

Phrenic nerve stimulation in quadriplegia [letter] **Lancet** 1990 Aug 18;336(8712):446–7

Phrenic nerve pacing in quadriplegia. **Lancet** 1990 Jul 14; 336(8707):88–90 (14 ref.)

Non-invasive phrenic nerve stimulation for intractable hiccups [letter] Aravot DJ, et al. **Lancet** 1989 Oct 28; 2(8670):1047

Electric fields in direct current stimulation system for bone healing. Gupta TD, et al. **Med Biol Eng Comput** 1990 May; 28(3):260–3

Deep brain stimulation for control of intractable pain in humans, present and future: a ten-year follow-up. Kumar K, et al. **Neurosurgery** 1990 May;26(5):774–81; discussion 781–2

Management of spinal cord stimulators in patients with cardiac pacemakers. Andersen C, et al. **PACE** 1990 May; 13(5):574–7

Influence of high voltage pulsed direct current on edema formation following impact injury. Bettany JA, et al. **Phys Ther** 1990 Apr;70(4):219–24

Two theories of muscle strength augmentation using percutaneous electrical stimulation. Delitto A, et al. **Phys Ther** 1990 Mar;70(3):158–64 (36 ref.)

[Esophageal pacing in children. 38 consecutive cases] Lucet V, et al. **Arch Fr Pediatr** 1990 Mar;47(3):185–9 (Eng. Abstr.) (Fre)

[Phrenic stimulation. Current indications and perspectives] Aubier M, et al. **Rev Mal Respir** 1989;6(5):393–4 (6 ref.) (Fre)

[Epidural neurostimulation for severe arteritis of the lower limbs] Van Damme H, et al. **Rev Med Liege** 1990 May; 45(5):219–27 (38 ref.) (Fre)

[Magnetic stimulation in patients with facial hemispasm] Laskawi R, et al. **Laryngorhinootologie** 1990 May; 69(5):237–41 (Eng. Abstr.) (Ger)

[Direct current therapy for local control of malignant tumors] Matsuhima Y, et al. **Nippon Geka Gakkai Zasshi** 1990 Jan; 91(1):23–8 (Eng. Abstr.) (Jpn)

[Treatment of vegetative status with dorsum column stimulation] Yokoyama T, et al. **No Shinkei Geka** 1990 Jan; 18(1):39–45 (Eng. Abstr.) (Jpn)

[Electrostimulation of the pelvic floor. A simple method of treating urinary incontinence] Schigtz HA, et al. **Tidsskr Nor Laegeforen** 1990 Apr 30;110(11):1372–4 (Eng. Abstr.) (Nor)

[Electrostimulation of the uterus in uterine inertia] Khasin AZ, et al. **Akush Ginekol (Mosk)** 1989 Nov;(11):38–40 (Eng. Abstr.) (Rus)

[Principles amd methods of the treatment of cardiac arrhythmia] Doshchitsin VL. **Kardiologiia** 1989 Oct; 29(10):125–8 (Rus)

[The effect of the transcerebral action of an ultrahigh-frequency electrical field on endocrine gland function in chronic alcoholics] Bobkova AS, et al. **Probl Endokrinol (Mosk)** 1990 Mar–Apr;36(2):49–51 (Eng. Abstr.) (Rus)

[Differentiated electrotherapy of neurogenic urination disorders] Mokhort VA, et al. **Urol Nefrol (Mosk)** 1989 Jul–Aug;(4):20–5 (Eng. Abstr.) (Rus)

[The treatment of alopecia areata with sinusoidal modulated currents] Sergeev SIa, et al. **Vestn Dermatol Venerol** 1989; (11):39–41 (Eng. Abstr.) (Rus)

[Combined exposure to sinusoidal modulated currents and ultrasonic vibrations in the neurological manifestations of lumbar osteochondrosis] Amanmuradova N. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):30–2 (Rus)

[The patterns of the changes in the indices of the immune and endocrine systems in elderly subjects under the transcerebral action of an ultra-high-frequency electrical field] Bogoliubova VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):16–20 (Rus)

[The use of sinusoidal modulated currents as a method of electrosleep] Danilova IN, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec; (6):9–13 (Eng. Abstr.) (Rus)

[The use of sinusoidal modulated currents by segmental methods of action for restoring work capacity in athletes] Giginelshvili GR, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Sep–Oct;(5):47–9 (Rus)

[Esophageal electrostimulation in gastroesophageal reflux] Kanishchev PA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):53 (Rus)

[Urethral electrothermal stimulation in treating patients with chronic non-gonococcal urethro-prostatitis] Iunda IF, et al. **Vrach Delo** 1990 Mar;(3):21–2 (Eng. Abstr.) (Rus)

[Conservative treatment of nerve injuries] Laskov VB. **Zh Nevropatol Psikhiatr** 1990;90(4):38–43 (Eng. Abstr.) (Rus)

[The results of direct electrostimulation of the involved optic nerves in neurosurgical patients] Khil'ko VA, et al. **Zh Vopr Neirokhir** 1989 May–Jun;(3):17–20 (Eng. Abstr.) (Rus)

[Treatment of bladder instability using intravaginal electric stimulation (intrarectal)] Salinas J, et al. **Arch Esp Urol** 1990 Jun;43(5):523–6 (Eng. Abstr.) (Spa)

STANDARDS

Reduction of chronic posttraumatic hand edema: a comparison of high voltage pulsed current, intermittent pneumatic compression, and placebo treatments. Griffin JW, et al. **Phys Ther** 1990 May;70(5):279–86

Type II fiber activation with electrical stimulation: a preliminary report. Sinacore DR, et al. **Phys Ther** 1990 Jul;70(7):416–22

ELECTRIC STIMULATION, TRANSCUTANEOUS see **TRANSCUTANEOUS ELECTRIC NERVE STIMULATION**

ELECTRIC WIRING see under **ELECTRICITY**

ELECTRICITY

see related
BIOELECTRIC ENERGY SOURCES

About the Coulomb potential in crystals. Becker P, et al. **Acta Crystallogr A** 1990 Apr 1;46 (Pt 4):254–8

Electric field-induced fusion of yeast protoplasts. The role of different physical and chemical factors. Tsoneva IC. **Acta Microbiol Bulg** 1989;24:53–60

Electrostatic effects in asbestos sampling. I: Experimental measurements. Baron PA, et al. **Am Ind Hyg Assoc J** 1990 Feb;51(2):51–62 (36 ref.)

Electrostatic effects in asbestos sampling. II: Comparison of theory and experiment. Baron PA, et al. **Am Ind Hyg Assoc J** 1990 Feb;51(2):63–9

Effect of voltage and charge of electrical ablation pulses on canine myocardium. Bardy GH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1534–42

Blackout during cardiopulmonary bypass [letter] Greenhalgh DL, et al. **Anaesthesia** 1990 Feb;45(2):175

Helicopter wire strike accident and high voltage electrocution: a case report. Posey DM, et al. **Aviat Space Environ Med** 1989 Oct;60(10 Pt 2):B29–34

Rats reproduce and rear litters during chronic exposure to 150-kV/m, 60-Hz electric fields. Rommereim DN, et al. **Bioelectromagnetics** 1989;10(4):385–9

Studies on the alignment of fibroblasts in uniform applied electrical fields. Ross SM, et al. **Bioelectromagnetics** 1989; 10(4):371–84

A three-dimensional method for calculating currents induced in bodies by extremely low-frequency electric fields. Takuma T, et al. **Bioelectromagnetics** 1990;11(1):71–89

A new direction for the AAMI safe current limits standard? Staewen WS. **Biomed Instrum Technol** 1989 Sep–Oct; 23(5):404–5

Threshold of sensation for 60-Hz leakage current: results of a survey. Tan KS, et al. **Biomed Instrum Technol** 1990 May–Jun;24(3):207–11

Pleural mesothelioma in a non-shipyard electrician. Huncharek M, et al. **Br J Ind Med** 1990 Jan;47(1):68

"Kirlian photography" film artifacts. Greyson ND. **Can Assoc Radiol J** 1989 Dec;40(6):331

Electrical safety in patient care areas [letter] Rasaiah B. **Can Med Assoc J** 1989 Oct 1;141(7):657

Electric field increases the phase transition temperature in the bilayer membrane of phosphatidic acid. Antonov VF, et al. **Chem Phys Lipids** 1990 Feb;52(3–4):251–7

Electrostatic coupling between membrane proteins. Brown GC. **FEBS Lett** 1990 Jan 15;260(1):1–5 (19 ref.)

Misconnection of battery cable in Matrx (Ohmeda) first response portable aspirators. **Health Devices** 1990 Feb; 19(2):57–8

DeVilbiss Pulmo-Aide air compressors. **Health Devices** 1989 Mar–Apr;18(3–4):137–8

IVAC 2080A intermittent electronic thermometers. **Health Devices** 1988 Aug;17(8):246

Heated wires can melt disposable breathing circuits. **Health Devices** 1989 May;18(5):174–5

Replacement batteries for the Physio-Control Lifepak 6 and 7. **Health Devices** 1990 Feb;19(2):61–2

Miles Tissue-Tek VIP tissue processors. **Health Devices** 1988 Feb;17(2):69–70

NFPA update: leakage current limits changed. **Health Devices** 1990 Jan;19(1):22

Metron QA5 artifact signal locator. **Health Devices** 1990 Jan; 19(1):23–4

NFPA alert: power in the OR. A call for action [editorial] **Health Devices** 1989 Nov;18(11):371–2

Power requirements for Coherent Excelase 55 CO_2 laser. **Health Devices** 1989 Oct;18(10):365–6

Electrical charge characteristics of long-lived radioactive dust. Bigu J. **Health Phys** 1990 Mar;58(3):341–50

Power-frequency magnetic fields from electric blankets. Florig HK, et al. **Health Phys** 1990 Apr;58(4):493–502

Cardiac output by electrical bioimpedance. Handelsman H. **Health Technol Assess Rep** 1989;(3):1–5

Localization of intracellular proteins at acetylcholine receptor clusters induced by electric fields in Xenopus muscle cells. Rochlin MW, et al. **J Cell Sci** 1989 Sep;94 (Pt 1):73–83

Harnessing electrical forces for separation. Capillary zone electrophoresis, isoelectric focusing, field-flow fractionation, split-flow thin-cell continuous-separation and other techniques. Giddings JC. **J Chromatogr** 1989 Oct 20;480:21–33

Electrosurgical interference causes movement of the operating table [letter] Vitkun SA, et al. **J Clin Anesth** 1989; 1(3):241–2

Association between neutral-to-earth and cow contact voltage on New York dairy farms. Southwick LH, et al. **J Dairy Sci** 1989 Sep;72(9):2417–20

Effects of electric fields on fibroblast contractility and cytoskeleton. Harris AK, et al. **J Exp Zool** 1990 Feb; 253(2):163–76

Potential equalization connectors for medical equipment [letter; comment] Mellish RG. **J Med Eng Technol** 1990 Mar–Apr;14(2):69 Comment on: J Med Eng Technol 1988 Nov–Dec;12(6):279–81.

Electrostatic interaction of microcapsules with guinea-pig polymorphonuclear leucocytes. Yasukawa S, et al. **J Microencapsul** 1990 Apr–Jun;7(2):179–84

Wheelchair batteries. II: Capacity, sizing, and life. Kauzlarich JJ. **J Rehabil Res Dev** 1990 Spring;27(2):163–70

From the Centers from Disease Control. Update: work-related electrocutions associated with Hurricane Hugo—Puerto Rico. **JAMA** 1989 Nov 24;262(20):2806

Signal-to-noise ratio improvements in in vivo high resolution micro-volume selected spectroscopy. Crozier S, et al. **Magn Reson Imaging** 1990;8(3):277–83

Update: work-related electrocutions associated with Hurricane Hugo—Puerto Rico. **MMWR** 1989 Oct 27; 38(42):718–20, 725

Positive effect of direct current on cytotoxicity of human lymphocytes. Chudomel V, et al. **Neoplasma** 1989; 36(5):573–82

Eddy current distributions in cylindrical samples: effect on equivalent sample resistance. Harpen MD. **Phys Med Biol** 1989 Sep;34(9):1229–38

Membrane electroporation: the dye method to determine the

cell membrane conductivity. Neumann E, et al. **Prog Clin Biol Res** 1990;343:69–83 (24 ref.)

Proportionality of ELF electric field–induced growth inhibition to induced membrane potential in Zea mays and Vicia faba roots. Brayman AA, et al. **Radiat Environ Biophys** 1990;29(2):129–41

The response of living cells to very weak electric fields: the thermal noise limit [published erratum appears in Science 1990 Mar 2;247(4946):1019] Weaver JC, et al. **Science** 1990 Jan 26;247(4941):459–62

Nonionizing radiation protection. Electric and magnetic fields at extremely low frequencies. Anderson LE, et al. **WHO Reg Publ Eur Ser** 1988;25:175–243 (274 ref.)

[The perception threshold for 50 Hz alternating voltage and current] Irnich W, et al. **Biomed Tech (Berlin)** 1989 Sep; 34(9):207–9 (Eng. Abstr.) (Ger)

[Effect of electric fields on the living organism. III. Activity of fructose-1,6-diphosphate aldolase and malate dehydrogenase in whole liver homogenate and in subcellular liver fractions in guinea pigs] Kula B, et al. **Med Pr** 1990;41(1):3–9 (Eng. Abstr.) (Pol)

[The theory of current fields induced by scalp electrodes] Gutman A, et al. **Biofizika** 1990 Jan–Feb;35(1):128–31 (Eng. Abstr.) (Rus)

[Electric coupling of frog embryo cells] Kvavilashvili ISh, et al. **Biofizika** 1990 Mar–Apr;35(2):363–6 (Eng. Abstr.) (Rus)

[Electrokinetic potential of cell nucleus during changes in the functional activity of rat hepatocytes] Panosian GA, et al. **Biofizika** 1989 Nov–Dec;34(6):989–92 (Eng. Abstr.) (Rus)

[Propagation of a variable potential along the human basal membrane and changes in its constant electric field as a result of laser irradiation of the skin] Zatsepina GN, et al. **Biofizika** 1990 Jan–Feb;35(1):115–7 (Eng. Abstr.) (Rus)

[The dielectric breakdown of membranes during cryopreservation of biological objects] Grishchenko VI, et al. **Dokl Akad Nauk SSSR** 1989 Sep–Oct;308(1):215–7 (Rus)

[Parallel changes in the puffing of polytene chromosomes and bioelectric properties of salivary gland cell nuclei in Drosophila melanogaster after heat shock] Strashniuk VIu, et al. **Genetika** 1990 May;26(5):874–8 (Eng. Abstr.) (Rus)

[A device for current stabilization in disk electrophoresis] Gangnus VS, et al. **Lab Delo** 1989;(9):76 (Rus)

[Fusion of Erwinia chrysanthemi spheroplasts in an electric fields] Iakovenko KN, et al. **Mol Gen Mikrobiol Virusol** 1990 May;(5):30–2 (Eng. Abstr.) (Rus)

[The modifying effect of an electric current on the course of radiation injuries in animals] Remizova IV, et al. **Radiobiologiia** 1989 Sep–Oct;29(5):655–9 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Effect of stunning current on downgrading in turkeys. Gregory NG, et al. **Br Poult Sci** 1989 Dec;30(4):761–4

Effect of ventricular fibrillation at stunning and ineffective bleeding on carcase quality defects in broiler chickens. Gregory NG, et al. **Br Poult Sci** 1989 Dec;30(4):825–9

Electric and magnetic fields [letter] Foster KR. **Science** 1989 Oct 27;246(4929):431

[Morphological changes in the thyroid and adrenals under the bitemporal action of a UHF electrical field and decimeter waves (experimental research)] Popov VI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan–Feb;(1):5–9 (Eng. Abstr.) (Rus)

ELECTROACOUSTIC IMPEDANCE TESTS see **ACOUSTIC IMPEDANCE TESTS**

ELECTROACUPUNCTURE

Change of Leu-enkephalin- and B-endorphin-like immunoreactivity in the hippocampus after electroconvulsive shock and electroacupuncture. He XP, et al. **Acupunct Electrother Res** 1989;14(2):131–9

Bladder instability and enuresis treated by acupuncture and electro-therapeutics: early urodynamic observations. Minni B, et al. **Acupunct Electrother Res** 1990;15(1):19–25

Connections found between each meridian (heart, stomach, triple burner, etc.) & organ representation area of corresponding internal organs in each side of the cerebral cortex; release of common neurotransmitters and hormones unique to each meridian and corresponding acupuncture point & internal organ after acupuncture, electrical stimulation, mechanical stimulation (including shiatsu), soft laser stimulation or QI Gong. Omura Y. **Acupunct Electrother Res** 1989;14(2):155–86 (73 ref.)

Electro-acupuncture modifies humoral immune response in the rat. Sakic B, et al. **Acupunct Electrother Res** 1989; 14(2):115–20

Electro-acupuncture in the treatment of enuresis nocturna. Tüzüner F, et al. **Acupunct Electrother Res** 1989; 14(3–4):211–5

Psychosomatic correlations in chronic pain patients using electroacupuncture. Berlin J, et al. **Am J Chin Med** 1989; 17(1–2):85–7

Effect of acupuncture on immunoglobulins of serum, saliva and gingival sulcus fluid. Yang MM, et al. **Am J Chin Med** 1989;17(1–2):89–94

Electro-acupuncture and postoperative emesis. Ho RT, et al. **Anaesthesia** 1990 Apr;45(4):327–9

Diencephalon as a cardinal neural structure for mediating 2 Hz- but not 100 Hz-electroacupuncture-induced tail flick reflex suppression. Wang Q, et al. **Behav Brain Res** 1990 Mar 5;37(2):149–56

The arcuate nucleus of hypothalamus mediates low but not high frequency electroacupuncture analgesia in rats. Wang Q, et al. **Brain Res** 1990 Apr 9;513(1):60–6

Effect of intracerebroventricular injection of thyrotropin-releasing hormone on the nociceptive discharges in mesencephalic reticular formation in the rat. Liu ZY, et al. **J Tongji Med Univ** 1989;9(4):251–6

Effects of acupuncture on pain threshold and plasma corticosterone level at different times of the day. Cao W, et al. **J Tradit Chin Med** 1990 Jun;10(2):136–40

Seven cases of spinal arachnoiditis treated by electro-acupuncture along the du meridian and moxibustion on guanyuan point. Dai TC. **J Tradit Chin Med** 1989 Dec;9(4):243–4

Effects of phentolamine and propranolol on the changes of pain threshold and contents of MEK and LEK in rat brain after EA. Wang YJ, et al. **J Tradit Chin Med** 1989 Sep; 9(3):210–4

The effects of electroacupuncture on the regional changes of monoamine neurotransmitters in brain of rat with carbon tetrachloride-induced liver injury. Wang YJ, et al. **J Tradit Chin Med** 1982 Dec;2(4):261–5

Opioid-like activity in the cerebrospinal fluid of pain patients treated by electroacupuncture. Ho WK, et al. **Neuropharmacology** 1989 Sep;28(9):961–6

Accelerated synthesis and release of angiotensin II in the rat brain during electroacupuncture tolerance. Wang KW, et al. **Sci China [B]** 1990 Jun;33(6):686–93

[Relationship between the precruciate cortex and the ventral lateral posterior nucleus of the thalamus in acupuncture analgesia] Chen Z, et al. **Chen Tzu Yen Chiu** 1990;15(1):61–5 (Eng. Abstr.) (Chi)

[Change of myocardial glucose and free fatty acid metabolism and effect of electroacupuncture on them during experimental myocardial angina] Gao C, et al. **Chen Tzu Yen Chiu** 1990;15(1):66–70 (Eng. Abstr.) (Chi)

[The effect of electrical stimulation of the head of caudate nociceptive neuronal activities in the mesencephalon reticular formation and its relation to the acupuncture effect] Gao ML, et al. **Chen Tzu Yen Chiu** 1989;14(4):414–9 (Eng. Abstr.) (Chi)

[The change of ACh metabolism in the dorsal horn of spinal cord and spinal ganglia during electroacupuncture analgesia (EAA)] Guan X, et al. **Chen Tzu Yen Chiu** 1990; 15(1):18–23 (Eng. Abstr.) (Chi)

[Relationship between the content of central substance P and the analgesic effect of electroacupuncture in rats] Li HL, et al. **Chen Tzu Yen Chiu** 1989;14(3):370–4 (Eng. Abstr.) (Chi)

[Effect of electroacupuncture on the urine flow, sodium excretion and potassium excretion in the conscious dog] Lin MZ, et al. **Chen Tzu Yen Chiu** 1989;14(3):365–9 (Eng. Abstr.) (Chi)

[The influence of electric needling "Juci" on nail-bed microcirculation of apoplectic patients] Liu G, et al. **Chen Tzu Yen Chiu** 1990;15(1):40–3 (Eng. Abstr.) (Chi)

[Involvement of oxytocin in spinal cord in acupuncture analgesia] Liu W, et al. **Chen Tzu Yen Chiu** 1990;15(1):24–9 (Eng. Abstr.) (Chi)

[Inhibitory effect of electroacupuncture on cAMP induced ECOG epileptiform waves] Lou ZC. **Chen Tzu Yen Chiu** 1989;14(3):319–22, 314 (Eng. Abstr.) (Chi)

[Effect of electro-acupuncture on the segment length of the myocardium and the left intraventricular pressure-length vector loop during experimental acute myocardial ischemic damage] Meng JB, et al. **Chen Tzu Yen Chiu** 1989; 14(4):435–41 (Eng. Abstr.) (Chi)

[An observation of protective effect of acupuncture on the gastric mucosa of Wistar rats and the relative histochemical changes of the neurotransmitters] Pan C, et al. **Chen Tzu Yen Chiu** 1990;15(1):48–54 (Eng. Abstr.) (Chi)

[The effects of microinjection of TRH or morphine into unilateral nucleus septum on pain threshold and electroacupuncture analgesia in rats] Tu Z, et al. **Chen Tzu Yen Chiu** 1990;15(1):6–12 (Eng. Abstr.) (Chi)

[Influence of acupuncture on discharge of gastric signal vagal efferent fiber] Wan DM, et al. **Chen Tzu Yen Chiu** 1989; 14(3):361–4 (Eng. Abstr.) (Chi)

[Effects of electroacupuncture at different hours on leucine-enkephalin contents in rat brain regions] Wang YJ, et al. **Chen Tzu Yen Chiu** 1989;14(4):420–3 (Eng. Abstr.) (Chi)

[Effects of intraperitoneal injection of naloxone on the analgesic effect and the changes of brain catecholamine contents induced by electroacupuncture in rats] Wang YJ, et al. **Chen Tzu Yen Chiu** 1989;14(3):348–51 (Eng. Abstr.) (Chi)

[Effect of electro-acupuncture (EA) on response of cerebellar cortex to slow pain] Wu J, et al. **Chen Tzu Yen Chiu** 1989;14(3):328–33 (Eng. Abstr.) (Chi)

[Study on the analgesic effect of acupuncture with opioid receptors agonist in induced arthritic rats] Xing JQ, et al. **Chen Tzu Yen Chiu** 1989;14(3):375–8 (Eng. Abstr.) (Chi)

[The effect of the septal area in acupuncture analgesia] Xiong K, et al. **Chen Tzu Yen Chiu** 1990;15(1):1–5, 12 (43 ref.) (Eng. Abstr.) (Chi)

[Effects of electroacupuncture on nociceptive responses observed on different days after lesion of unilateral somatosensory cortex] Xu W, et al. **Chen Tzu Yen Chiu** 1989;14(4):424–7 (Eng. Abstr.) (Chi)

[Effect of electroacupuncture on nociceptive responses after topical application of bicuculline in the rat] Xu W, et al. **Chen Tzu Yen Chiu** 1989;14(3):315–8 (Eng. Abstr.) (Chi)

[Changes in responses of parafascicular nuclei during adjuvant-induced acute arthritis and effect of acupuncture in the rat] Xu Z, et al. **Chen Tzu Yen Chiu** 1990;15(1):77–81, 29 (Eng. Abstr.) (Chi)

[Preliminary observation on effect of electroacupuncture on myocardial metabolism in fasting dogs] Yu XC, et al. **Chen Tzu Yen Chiu** 1989;14(3):352–5 (Eng. Abstr.) (Chi)

[The endogenous opiate and nonopiate analgesic system] Zhang CC. **Chen Tzu Yen Chiu** 1989;14(3):306–14 (Eng. Abstr.) (Chi)

[Effect and nervous mechanism of acupuncture on gastroelectrical propagation velocity] Zhang H, et al. **Chen Tzu Yen Chiu** 1989;14(3):356–60 (Eng. Abstr.) (Chi)

[The effect of electro-acupuncture of "neiguan" acupoint on cortical potential evoked by stimulating C-fibers of splanchnic nerve] Zhang JM, et al. **Chen Tzu Yen Chiu** 1989;14(4):410–3 (Eng. Abstr.) (Chi)

[A summary on effects of combined acupuncture anaesthesia for critical, old, week, special patients] Zhang RH, et al. **Chen Tzu Yen Chiu** 1989;14(4):403–6 (Eng. Abstr.) (Chi)

[Influence of electroacupuncture on ACh content and AChE activity in the spinal ganglia of rat] Zhang YW, et al. **Chen Tzu Yen Chiu** 1989;14(4):463–7 (Eng. Abstr.) (Chi)

[The afferent pathway of the septal nuclei on participation in acupuncture analgesia] Zheng PM, et al. **Chen Tzu Yen Chiu** 1989;14(3):323–7 (Eng. Abstr.) (Chi)

[A electromyographical observation on the treatment of poliomyelitis sequelae with series electroacupuncture] Zhou YP, et al. **Chen Tzu Yen Chiu** 1989;14(3):344–7 (Eng. Abstr.) (Chi)

[The influence of lesion of different areas of sensorimotor cortex on effects of EA on NRM neurons] Zou T, et al. **Chen Tzu Yen Chiu** 1990;15(1):55–60 (Eng. Abstr.) (Chi)

[Effect of acupuncture of zusanli (St. 36) on the content of beta-endorphin of the gastrointestinal tract in rats] Yang J, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Nov; 9(11):677–8, 646 (Eng. Abstr.) (Chi)

[Effects of hand electroacupuncture on the mean value of cAMP content and Na(+)-K(+)-ATPase activity in the tissue of various areas of the rat brain] Ding Q. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Apr; 23(2):72–4, 125 (Eng. Abstr.) (Chi)

[Effects of intrahippocampal delta-receptors on inhibition of electroconvulsive shock by electro-acupuncture] He XP, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 May;10(3):197–201 (Eng. Abstr.) (Chi)

[Antagonism of morphine analgesia and electroacupuncture analgesia by cholecystokinin octapeptide (CCK-8) administered in periaqueductal gray (PAG) of the rabbits] Cao W, et al. **Sheng Li Hsueh Pao** 1989 Aug;41(4):388–94 (Eng. Abstr.) (Chi)

[Effect on electroacupuncture on experimental epilepsy—power spectrum analysis of EEG] He XP, et al. **Sheng Li Hsueh Pao** 1990 Apr;42(2):141–8 (Eng. Abstr.) (Chi)

[Effect of electroacupuncture on electroconvulsive shock—an autoradiographic study for opioid receptors] He XP, et al. **Sheng Li Hsueh Pao** 1990 Apr;42(2):149–54 (Eng. Abstr.) (Chi)

[The role of central oxytocin in electroacupuncture analgesia] Song CY, et al. **Sheng Li Hsueh Pao** 1990 Apr;42(2):169–74 (Eng. Abstr.) (Chi)

[High and low frequency electroacupuncture analgesia are mediated by different types of opioid receptors at spinal level: a cross tolerance study] Sun SL, et al. **Sheng Li Hsueh Pao** 1989 Aug;41(4):416–20 (Eng. Abstr.) (Chi)

[Effect of locus coeruleus stimulation and electroacupuncture on nociceptive response of spinal dorsal horn neurons in rats] Yu GD, et al. **Sheng Li Hsueh Pao** 1990 Feb; 42(1):76–81 (Eng. Abstr.) (Chi)

[The effect of acupuncture on the regulation of immunity—the discovery of serum lymphocyte transformation inhibitory factor in electroacupunctured rats, determination of biological characteristics and analysis of its mechanism of action] Xu H. **Sheng Li Ko Hsueh Chin Chan** 1990 Apr;21(2):158–60 (Chi)

[The role of humoral factors in the mechanism of the analgesic effect of electroacupuncture] Himmelfarb GN, et al. **Anesteziol Reanim** 1990;15(3):145–50 (Eng. Abstr.) (Ger)

[Late results of Horton's headache treatment using peripheral stimulation] Kwasucki J, et al. **Wiad Lek** 1989 Nov 15–Dec 15;42(22–24):1119–21 (Eng. Abstr.) (Pol)

[An analysis of the analgesic action of electroacupuncture] Meizerov EE, et al. **Anesteziol Reanimatol** 1990 Jan–Feb; (1):13–5 (Eng. Abstr.) (Rus)

[Electroacupuncture in the prevention of the immunosuppressive action of surgical stress] Vasilenko AM, et al. **Anesteziol Reanimatol** 1989 May–Jun;(3):56–9 (Eng. Abstr.) (Rus)

[The effect of electroacupuncture on the neuronal responses of the oral trigeminal nucleus in the cat during nociceptive and non-nociceptive stimulation] Dolgikh VG, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):646-8 (Eng. Abstr.) **(Rus)**

[Effects of the removal of the orbito-frontal cortex on the development of reflex analgesia] Reshetniak VK, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):14-6 (Eng. Abstr.) **(Rus)**

[Modulation of the nociceptive flexor reflex by the electrostimulation of auricular acupuncture points] Vashchenko EA, et al. **Fiziol Zh** 1989 Jul-Aug;35(4):85-90 (Eng. Abstr.) **(Rus)**

[Effect of electric stimulation of auricular acupuncture points on H-reflex] Vashchenko EA, et al. **Fiziol Zh** 1989 Nov-Dec;35(6):88-91 (Eng. Abstr.) **(Rus)**

[Dynamics of psycho-autonomic disorders in electroacupuncture of patients with alcoholism] Tabeeva DM. **Sov Med** 1989;(8):80-3 **(Rus)**

[Thromboelastography in patients with focal scleroderma and their dynamics during electroacupuncture] Smirnov AV. **Vestn Dermatol Venerol** 1989;(10):40-2 (Eng. Abstr.) **(Rus)**

[Clinical evaluation of the effectiveness of acupuncture in surgical patients] Badarchin D, et al. **Vestn Khir** 1989 Aug; 144(8):125-7 **(Rus)**

[The clinical efficacy of electroacupuncture in treating patients with infectious-allergic bronchial asthma] Gaponiuk PIa, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Sep-Oct;(5):60-2 **(Rus)**

[The effect of electroacupuncture and acupuncture on ischemic and reperfusion cardiac arrhythmias] Radzievskii SA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov-Dec;(6):7-9 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

[A device based on the use of single-crystal microcomputers for auricular diagnosis and therapy] Ishchenko AN, et al. **Med Tekh** 1990 Mar-Apr;(2):25-7 (Eng. Abstr.) **(Rus)**

METHODS

New peptide mechanism of auriculo-acupuncture electro-analgesia: role of angiotensin II. Fedoseeva OV, et al. **Acupunct Electrother Res** 1990;15(1):1-8

Relationship between acupuncture-induced immunity and the regulation of central neurotransmitters in the rabbit: VI. The influence of NDR stimulation on acupuncture regulation of immune function in rabbit. Liu WG, et al. **Acupunct Electrother Res** 1989;14(3-4):197-203

[Comparison of the effectiveness of drug therapy, invasive and non-invasive acupuncture in migraine] Heydenreich A, et al. **Z Arztl Fortbild (Jena)** 1989;83(17):877-9 **(Ger)**

[Single-point transcutaneous electric nerve stimulation in a simple placebo comparison in migraine (a prospective randomized study)] Heydenreich A. **Z Arztl Fortbild (Jena)** 1989;83(17):881-3 **(Ger)**

[The use of a method of electroacupuncture reflexotherapy for enhancing the work capacity of military drivers] Litvinov AM, et al. **Voen Med Zh** 1989 Nov;(11):50 **(Rus)**

[Functional changes in the pituitary-adrenal system during the action of electroacupuncture on patients with spinal osteochondrosis] Bragin EO, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 May-Jun; (3):40-4 (Eng. Abstr.) **(Rus)**

[The clinical efficacy of auricular electroacupuncture in treating hypertension patients] Gaponiuk PIa, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Jan-Feb;(1):13-5 (Eng. Abstr.) **(Rus)**

[Analysis of the effectiveness of reflexotherapy in patients with osteochondrosis of the cervical spine] Esina IIu, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):23-6 (Eng. Abstr.) **(Rus)**

TRENDS

A comment on past and future of acupuncture analgesia research. Chang HT. **Chen Tzu Yen Chiu** 1989; 14(3):299-305 (0 ref.) **(Eng, Chi)**

ELECTROANALGESIA see **TRANSCUTANEOUS ELECTRIC NERVE STIMULATION**

ELECTROANESTHESIA see **ELECTRONARCOSIS**

ELECTROCARDIOGRAPHY

Computerised evaluation of the electrocardiogram during and for a short period after gall bladder surgery. Jakobsson J, et al. **Acta Anaesthesiol Scand** 1989 Aug;33(6):474-7

Relative lack of cardiotoxicity of paroxetine in animal models. Cain CR, et al. **Acta Psychiatr Scand Suppl** 1989; 350:27-30

Cardiovascular and psychomotor effects of repeated doses of paroxetine: a comparison with amitriptyline and placebo in healthy men. Warrington SJ, et al. **Acta Psychiatr Scand Suppl** 1989;350:42-4

ST deviation in right chest leads V3R to V7R during percutaneous transluminal coronary angioplasty. Andersen HR, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):490-3

Comparison of QRS morphologies of spontaneous premature ventricular complexes and ventricular tachycardia induced by programmed stimulation. Anderson KP, et al. **Am Heart J** 1990 Jun;119(6):1302-11

Quantitation of QRS and ST segment responses to exercise. Bruce RA, et al. **Am Heart J** 1966 Apr;71(4):455-66

The value of exercise testing in patients with coronary artery spasm. Castello R, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):259-63

Septal ischemia and abnormal septal Q wave response to exercise: a link implicated from percutaneous transluminal coronary angioplasty. Chen CH, et al. **Am Heart J** 1989 Dec;118(6):1327-30

ECG and enzymatic indicators of therapeutic success after intravenous streptokinase for acute myocardial infarction. Clemmensen P, et al. **Am Heart J** 1990 Sep;120(3):503-9

The pathologic basis of the electrocardiographic pattern of parietal block. Entman ML, et al. **Am Heart J** 1967 Aug; 74(2):202-7

Stepwise approach to the unknown pacemaker ECG. Garson A Jr. **Am Heart J** 1990 Apr;119(4):924-41 (0 ref.)

Comparative accuracy of the vectorcardiogram and electrocardiogram in the localization of the accessory pathway in patients with Wolff-Parkinson-White syndrome: validation of a new vectorcardiographic algorithm by intraoperative epicardial mapping and electrophysiologic studies. Giorgi C, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):592-8

Electrocardiographic aspects of primary myocardial disease in 60 patients. Hamby RI, et al. **Am Heart J** 1968 Sep; 76(3):316-28 (80 ref.)

ECG changes resulting from cerebral stimulation. III. Action of diphenylhydantoin on arrhythmias. Hockman CH, et al. **Am Heart J** 1967 Aug;74(2):256-60

The clinical significance of exercise-induced ST segment changes in patients with previous inferior myocardial infarction. Hosoya Y, et al. **Am Heart J** 1990 Sep; 120(3):554-61

The configuration of the P wave during mild exercise. Irisawa H, et al. **Am Heart J** 1966 Apr;71(4):467-72

Effects of thrombolysis on the 12-lead signal-averaged ECG in the early postinfarction period. Leor J, et al. **Am Heart J** 1990 Sep;120(3):495-502

Reduction in Q wave myocardial infarctions with gemfibrozil in the Helsinki Heart Study. Mänttäri M, et al. **Am Heart J** 1990 May;119(5):991-5

The effect of baseline electrocardiographic abnormalities on the diagnostic accuracy of exercise-induced ST segment changes. Meyers DG, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):272-6

New coronary artery disease index based on exercise-induced QRS changes. Michaelides AP, et al. **Am Heart J** 1990 Aug;120(2):292-302

Effect of baseline ST segment elevation on test performance of standard and heart rate-adjusted ST segment depression criteria. Okin PM, et al. **Am Heart J** 1990 Jun;119(6):1280-6

Clinical implications of exercise-induced chest pain: comparison of patients with and without pathologic Q waves in coronary artery disease. Ozawa T, et al. **Am Heart J** 1990 Sep;120(3):550-4

Walk-through angina treated by percutaneous transluminal coronary angioplasty: electrocardiographic, radionuclide, and angiographic correlations. Ratner SJ, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):390-2

The electrocardiographic recognition of left atrial enlargement in childhood. Reynolds JL. **Am Heart J** 1967 Aug;74(2):179-91

Dissociation of ST segment elevation and regional wall motion with open-artery, intracoronary Fluosol. Schaer GL, et al. **Am Heart J** 1989 Oct;118(4):679-85

The electrocardiographic diagnosis of acute myocardial infarction in the thrombolytic era. Schweitzer P. **Am Heart J** 1990 Mar;119(3 Pt 1):642-54 (119 ref.)

Exercise-induced alterations of signal-averaged electrocardiograms in marathon runners. Smith GS, et al. **Am Heart J** 1989 Dec;118(6):1198-202

Effect of self-correlation on the relation between QT interval and cardiac cycle length. Spodick DH, et al. **Am Heart J** 1990 Jul;120(1):157-60

Factors associated with late onset of advanced atrioventricular block in acute Q wave inferior infarction. Sugiura T, et al. **Am Heart J** 1990 May;119(5):1008-13

The effects of exercise during viremia on the signal-averaged electrocardiogram. Vacek JL, et al. **Am Heart J** 1990 Mar; 119(3 Pt 1):702-5

Prediction of right ventricular pressure in pulmonic stenosis from sponge vectorcardiogram and electrocardiogram. Witham AC, et al. **Am Heart J** 1968 Feb;75(2):187-99

Reflections on electrocardiography [editorial] Wolferth CC. **Am Heart J** 1966 Apr;71(4):431-4

ECG variants and cardiac arrhythmias in athletes: clinical relevance and prognostic importance. Zehender M, et al. **Am Heart J** 1990 Jun;119(6):1378-91 (121 ref.)

"Ischemic" ST-segment changes during the pericatheterization period in men with angiographically confirmed coronary artery disease Bauerlein EJ, et al. **Am J Cardiol** 1990 Jul 15;66(2):225-7

Attenuation of exercise-induced ST depression during combined isometric and dynamic exercise in coronary artery disease. Bertagnoli K, et al. **Am J Cardiol** 1990 Feb 1;65(5):314-7

Importance of early recurrent ischemia on one-year survival after non-Q-wave acute myocardial infarction. Diltiazem Reinfarction Study Research Group. Boden WE, et al. **Am J Cardiol** 1989 Oct 1;64(12):799-801

Prognosis in patients with a strongly positive exercise electrocardiogram. Bogaty P, et al. **Am J Cardiol** 1989 Dec 1;64(19):1284-8

One heart, two bodies: insight from the transplanted heart and its new electrocardiogram. Butman SM, et al. **Am J Cardiol** 1990 Sep 1;66(5):632-5

ST-segment changes during transmural myocardial ischemia in chronic left bundle branch block. Cannon A, et al. **Am J Cardiol** 1989 Nov 15;64(18):1216-7

Effects of exercise on the signal-averaged electrocardiogram in coronary artery disease. Caref EB, et al. **Am J Cardiol** 1990 Jul 1;66(1):54-8

Utility of lead V4R in exercise testing for detection of coronary artery disease. Chouhan L, et al. **Am J Cardiol** 1989 Oct 15;64(14):938-9

Signal-averaged electrocardiographic late potentials in resuscitated survivors of out-of-hospital ventricular fibrillation. Dolack GL, et al. **Am J Cardiol** 1990 May 1; 65(16):1102-4

Spontaneous beat-to-beat variation of PR interval in normal children. Donnerstein RL, et al. **Am J Cardiol** 1990 Sep 15;66(7):753-4

Genetic evidence of dissociation (generational skips) of electrical from morphologic forms of hypertrophic cardiomyopathy. Epstein ND, et al. **Am J Cardiol** 1990 Sep 1;66(5):627-31

Relation of peri-infarction block to ventricular late potentials in patients with inferior wall myocardial infarction. Flowers NC, et al. **Am J Cardiol** 1990 Sep 1;66(5):568-74

Effects of propranolol in non-Q-wave acute myocardial infarction in the beta blocker heart attack trial [see comments] Gheorghiade M, et al. **Am J Cardiol** 1990 Jul 15;66(2):129-33 Comment in: Am J Cardiol 1990 Jul 15;66(2):220-2.

Prognostic utility of predischarge dipyridamole-thallium imaging compared to predischarge submaximal exercise electrocardiography and maximal exercise thallium imaging after uncomplicated acute myocardial infarction. Gimple LW, et al. **Am J Cardiol** 1989 Dec 1;64(19):1243-8

Prognostic use of a QRS scoring system after hospital discharge for initial acute myocardial infarction in the Framingham cohort. Jones MG, et al. **Am J Cardiol** 1990 Sep 1;66(5):546-50

Cardiac event rate after non-Q-wave acute myocardial infarction and the significance of its anterior location. Kao W, et al. **Am J Cardiol** 1989 Dec 1;64(19):1236-42

Combined use of transesophageal echocardiography and endocardial mapping to localize the site of origin of ectopic atrial tachycardia. Kay GN, et al. **Am J Cardiol** 1990 May 15;65(18):1284-6

Frequency and significance of late evolution of Q waves in patients with initial non-Q-wave acute myocardial infarction. Diltiazem Reinfarction Study Group. Kleiger RE, et al. **Am J Cardiol** 1990 Jan 1;65(1):23-7

Differentiation of the origin of wide QRS complexes by the net amplitude of the QRS in lead V6. Kremers MS, et al. **Am J Cardiol** 1989 Nov 1;64(16):1053-6

The portable programmable microprocessor-driven real-time 12-lead electrocardiographic monitor: a preliminary report of a new device for the noninvasive detection of successful reperfusion or silent coronary reocclusion. Krucoff MW, et al. **Am J Cardiol** 1990 Jan 15;65(3):143-8

Significance of a lateral Q wave following first anterior wall acute myocardial infarction. Lamas GA, et al. **Am J Cardiol** 1990 Mar 1;65(9):674-5

Effects of bepridil and CERM 4205 (ORG 30701) on the relation between cardiac cycle length and QT duration in healthy volunteers. Lecocq B, et al. **Am J Cardiol** 1990 Sep 1;66(5):636-41

The electrocardiogram at rest and exercise during a simulated ascent of Mt. Everest (Operation Everest II). Malconian M, et al. **Am J Cardiol** 1990 Jun 15;65(22):1475-80

Clinical and pathophysiologic correlates of ST-T-wave abnormalities in coronary artery disease. Mirvis DM, et al. **Am J Cardiol** 1990 Sep 15;66(7):699-704

Atrial flutter in patients treated for atrial fibrillation with propafenone. Murdock CJ, et al. **Am J Cardiol** 1990 Sep 15;66(7):755-7

Mechanisms of stress-induced ST elevation and negative T-wave normalization studied by serial cardiokymogram in patients with a previous myocardial infarction. Ogawa T, et al. **Am J Cardiol** 1990 Apr 15;65(15):962-6

Computer-based implementation of the ST-segment/heart rate slope. Okin PM, et al. **Am J Cardiol** 1989 Oct 15; 64(14):926-30

Right ventricular ischemia diagnosed by ST-segment elevation in precordial leads [letter; comment] Ovsyshycher IA, et al. **Am J Cardiol** 1990 Apr 15;65(15):1050 Comment on: Am J Cardiol 1989 Jan 1;63(1):107-9.

Correlation of amiodarone dosage, heart rate, QT interval and corneal microdeposits with serum amiodarone and desethylamiodarone concentrations. Pollak PT, et al. **Am J Cardiol** 1989 Nov 15;64(18):1138-43

Effects of altered cardiac ventricular chamber size on the electrocardiogram and position of the heart. Ross EA, et al. **Am J Cardiol** 1990 Apr 1;65(13):943-6

Clinical characteristics and outcome of acute myocardial infarction in patients with initially normal or nonspecific electrocardiograms (a report from the Multicenter Chest Pain Study). Rouan GW, et al. **Am J Cardiol** 1989 Nov

15;64(18):1087–92
Differential sensitivity of the RV6:RV5 voltage ratio by pathogenesis of left ventricular hypertrophy and diagnostic cutpoint. Spodick DH, et al. **Am J Cardiol** 1989 Oct 1; 64(12):817–9
Clinical significance of pericardial rub in inferior wall Q-wave acute myocardial infarction. Sugiura T, et al. **Am J Cardiol** 1990 Jul 15;66(2):227–8
Prediction of preserved flow to the infarct area based on admission electrocardiogram in anterior wall acute myocardial infarction. Tanabe Y, et al. **Am J Cardiol** 1990 Jun 15;65(22):1416–21
The divergent recovery of ST-segment depression and radionuclide angiographic indicators of myocardial ischemia. Vatterott PJ, et al. **Am J Cardiol** 1990 Aug 1; 66(3):296–301
Are electrophysiologic studies indicated in nonsustained ventricular tachycardia? Wiener I, et al. **Am J Cardiol** 1990 Sep 1;66(5):642–4
Evaluating effects of treatment in subgroups of patients within a clinical trial: the case of non-Q-wave myocardial infarction and beta blockers [comment] Yusuf S, et al. **Am J Cardiol** 1990 Jul 15;66(2):220–2 Comment on: Am J Cardiol 1990 Jul 15;66(2):129–33.
Frequency, characteristics and significance of supraventricular tachyarrhythmias detected by 24-hour electrocardiographic recording in the late hospital phase of acute myocardial infarction. Zoni Berisso M, et al. **Am J Cardiol** 1990 May 1;65(16):1064–70
Efficacy of transtelephonic electrocardiographic monitoring in pediatric patients. Goldstein MA, et al. **Am J Dis Child** 1990 Feb;144(2):178–82
Cases in electrocardiography. Zimmers T. **Am J Emerg Med** 1989 Nov;7(6):612–5
Cases in electrocardiography. Zimmers T, et al. **Am J Emerg Med** 1990 Mar;8(2):149–51
Cases in electrocardiography. Zimmers T. **Am J Emerg Med** 1990 May;8(3):238–9
Intravenous adenosine triphosphate during wide QRS complex tachycardia: safety, therapeutic efficacy, and diagnostic utility. Sharma AD, et al. **Am J Med** 1990 Apr; 88(4):337–43
Effects of ritodrine tocolysis on cardiac isozymes and electrocardiography [letter] Hendricks SK, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):699–701
Measurement of left ventricular mass in rats using electrocardiogram-gated magnetic resonance imaging. Manning WJ, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1181–6
Analysis of short-term oscillations of R-R and arterial pressure in conscious dogs. Rimoldi O, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H967–76
Relation of vulnerability to ECG and action potential characteristics of premature beats. Surawicz B, et al. **Am J Physiol** 1967 Jun;212(6):1519–28
ECG changes with electroconvulsive therapy [letter] Bennett BL, et al. **Anesth Analg** 1990 Mar;70(3):338–9
Transient large upright T-waves during electroconvulsive therapy [letter; comment] Boyd GL, et al. **Anesth Analg** 1990 Apr;70(4):465 Comment on: Anesth Analg 1989 Nov;69(5):677–9.
Electrocardiographic changes during cesarean section under regional anesthesia [letter; comment] Elstein ID, et al. **Anesth Analg** 1990 Jul;71(1):103 Comment on: Anesth Analg 1990 Jan;70(1):36–43.
Electrocardiographic artifacts during cardiopulmonary bypass. Khambatta HJ, et al. **Anesth Analg** 1990 Jul; 71(1):88–91
T-wave changes associated with electroconvulsive therapy [see comments] Khoury GF, et al. **Anesth Analg** 1989 Nov; 69(5):677–9 Comment in: Anesth Analg 1990 Apr;70(4):465.
Incidence of electrocardiographic changes during cesarean delivery under regional anesthesia [see comments] Palmer CM, et al. **Anesth Analg** 1990 Jan;70(1):36–43 Comment in: Anesth Analg 1990 Jul;71(1):103.
Intraoperative ST-segment changes consistent with myocardial ischemia in the neonate: a report of three cases. Bell C, et al. **Anesthesiology** 1989 Oct;71(4):601–4
Precordial ECG mapping in acute myocardial infarction (AMI) after intravenous infusion of streptokinase (s). Babalis DC, et al. **Angiology** 1989 Dec;40(12):1040–7
Magnesium treatment of torsade de pointes—a case report. Gould LA, et al. **Angiology** 1990 Jul;41(7):577–81
The ST segment axis as a differential diagnostic feature between acute pericarditis and acute inferior myocardial infarction. Kouvaras G, et al. **Angiology** 1990 Mar; 41(3):207–12
Current status of arrhythmia surgery. Cox J. **Ann Acad Med Singapore** 1990 Jan;19(1):108
Anti-arrhythmic surgery for atrioventricular junctional and atrioventricular re-entrant tachycardia—a report of six cases. Koo CC, et al. **Ann Acad Med Singapore** 1990 Jan; 19(1):67–72
Estimating the duration of ventricular fibrillation. Brown CG, et al. **Ann Emerg Med** 1989 Nov;18(11):1181–5
ECG criteria for TCA toxicity [letter] Cheng TO. **Ann Emerg Med** 1990 Feb;19(2):219–20
Hyperacute T-wave criteria using computer ECG analysis. Collins MS, et al. **Ann Emerg Med** 1990 Feb;19(2):114–20
Value of initial ECG findings and plasma drug levels in cyclic antidepressant overdose. Lavoie FW, et al. **Ann Emerg Med** 1990 Jun;19(6):696–700
The ability of physicians to predict electrolyte deficiency from the ECG [published erratum appears in Ann Emerg Med 1990 Aug;19(8):905] Wrenn KD, et al. **Ann Emerg Med** 1990 May;19(5):580–3
"Recovery only" ST-segment depression and the predictive accuracy of the exercise test [published erratum appears in Ann Intern Med 1990 Aug 15;113(4):333–4] Lachterman B, et al. **Ann Intern Med** 1990 Jan 1;112(1):11–6
Subendocardial S-T segment changes during acute coronary occlusion. Guyton RA. **Ann Thorac Surg** 1975 Jul; 20(1):52–5
Electrocardiographic changes in measles. Olowu AO, et al. **Ann Trop Paediatr** 1990 Mar;10(1):109–16
Nurses disagree with 'President's Message' [letter] **AORN J** 1990 Feb;51(2):434–5
Acute effects of milrinone on the electrocardiogram and the cardiac hemodynamics of rats with pressure overload-induced congestive heart failure. Desjardins S, et al. **Arch Int Pharmacodyn Ther** 1989 Sep-Oct;301:182–99
The lack of effect of clinical information on electrocardiographic diagnosis of acute myocardial infarction. Dunn PM, et al. **Arch Intern Med** 1990 Sep; 150(9):1917–9
The coronary stress of skiing at high altitude. Grover RF, et al. **Arch Intern Med** 1990 Jun;150(6):1205–8
The incidence and prognosis of unrecognized myocardial infarction [letter; comment] Spodick DH. **Arch Intern Med** 1990 Jun;150(6):1350 Comment on: Arch Intern Med 1989 Jul;149(7):1528–32.
Cerebrogenic cardiac arrhythmias. Cerebral electrocardiographic influences and their role in sudden death. Oppenheimer SM, et al. **Arch Neurol** 1990 May; 47(5):513–9 (104 ref.)
Electrocardiographic findings in myotonic dystrophy. Olofsson BO, et al. **Arctic Med Res** 1988;47 Suppl 1:420–2
Electroencephalographical analysis of acute drug intoxication—SS Bron solution-W. Tokunaga I, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Dec;24(6):471–9
High +Gz centrifuge training: the electrocardiographic response to +Gz-induced loss of consciousness. Whinnery AM, et al. **Aviat Space Environ Med** 1990 Jul;61(7):609–14
The electrocardiographic response to high +Gz centrifuge training. Whinnery JE. **Aviat Space Environ Med** 1990 Aug; 61(8):716–21
A computer model of human ventricular myocardium for simulation of ECG, MCG, and activation sequence including reentry rhythms. Wach P, et al. **Basic Res Cardiol** 1989 Jul-Aug;84(4):404–13
Effects of psychophysiological activation on coronary flow, cardiac electrophysiology and central hemodynamics in patients with ischemic heart disease. Mazzuero G, et al. **Bibl Cardiol** 1989;(44):47–58; discussion 58–9
Cardiorespiratory patterns in infants presenting with apparent life-threatening episodes. Southall DP, et al. **Biol Neonate** 1990;57(2):77–87
Electrocardiographs in general practice [editorial] Davies A. **BMJ** 1989 Aug 12;299(6696):408–9
Intravenous streptokinase for acute myocardial infarction reduces the occurrence of ventricular late potentials. Chew EW, et al. **Br Heart J** 1990 Jul;64(1):5–8
QT dispersion: an indication of arrhythmia risk in patients with long QT intervals. Day CP, et al. **Br Heart J** 1990 Jun;63(6):342–4
A comparison of methods of analysing exercise tests for diagnosis of coronary artery disease. Deckers JW, et al. **Br Heart J** 1989 Dec;62(6):438–44
An association between left axis deviation and an aneurysmal defect in children with a perimembranous ventricular septal defect. Farrú-Albohaire O, et al. **Br Heart J** 1990 Aug; 64(2):146–50
Genesis and evolution of ectopic ventricular rhythm. Schamroth L. **Br Heart J** 1966 Mar;28(2):244–57
The electrocardiogram in complete transposition of the great vessels. Shaher RM, et al. **Br Heart J** 1966 Mar; 28(2):265–75
Superior QRS axis in ventricular septal defect. Shaw NJ, et al. **Br Heart J** 1989 Oct;62(4):281–3
Importance of reciprocal ST segment depression in leads V5 and V6 as an indicator of disease of the left anterior descending coronary artery in acute inferior wall myocardial infarction. Strasberg B, et al. **Br Heart J** 1990 Jun;63(6):339–41
The epicardial electrogram: a quantitative assessment during balloon angioplasty incorporating monophasic action potential recordings. Taggart P, et al. **Br Heart J** 1989 Nov;62(5):342–52
Routine pre-operative electrocardiography. McCleane GJ, et al. **Br J Clin Pract** 1990 Mar;44(3):92–5
A comparison of electrocardiographic and echocardiographic abnormalities in subarachnoid hemorrhage. Davies KR, et al. **Can J Anaesth** 1990 May; 37(4 Pt 2):S25
Factors influencing the R-R interval during central venous injection in newborn swine. Oyston JP, et al. **Can J Anaesth** 1989 Sep;36(5):554–9
Estimation of left ventricular function on ECG-gated thallium-201 myocardial perfusion images. Hurwitz GA, et al. **Can J Cardiol** 1989 Oct;5(7):343–51
Infantile hypertrophic cardiomyopathy with QT prolongation. Zalzstein E, et al. **Can J Cardiol** 1989 Oct; 5(7):337–9
Beneficial effect of intravenous nitroglycerin in patients with non-Q myocardial infarction. Charvat J, et al. **Cardiologia** 1990 Jan;35(1):49–54
Relationship between age and anterograde refractoriness of the accessory pathway in Wolff-Parkinson-White patients. Michelucci A, et al. **Cardiology** 1989;76(4):270–3
Changing electrocardiographic findings in pulmonary embolism in relation to vascular obstruction. Nielsen TT, et al. **Cardiology** 1989;76(4):274–84
Improvement of ST segment depression by gradual recruitment of collateral circulation. Tanaka K, et al. **Cardiology** 1990;77(1):17–24
The surface electrocardiogram as a means of refining a murine pressure overload model of congestive heart failure [letter; comment] Bestetti RB, et al. **Cardiovasc Res** 1989 Jun;23(6):560 Comment on: Cardiovasc Res 1988 Oct;22(10):696–702.
Selective ECG synchronised suction and retroinfusion of coronary veins: first results of studies in acute myocardial ischaemia in dogs. Boekstegers P, et al. **Cardiovasc Res** 1990 Jun;24(6):456–64
R- and S-wave amplitude changes with acute anterior transmural myocardial ischemia. Correlations with left ventricular filling pressures. Charlap S, et al. **Chest** 1990 Mar;97(3):566–71
Dramatic electrocardiographic T-wave changes associated with gastric dilatation. Frais MA, et al. **Chest** 1990 Aug; 98(2):489–90
P-wave configuration as an indicator of echocardiographic indices of cardiac structure and function in normotensive adolescents. Graettinger WF, et al. **Chest** 1990 Apr; 97(4):896–900
Masked atrial tachycardia with ventricular pseudobigeminy by 1:3 tracking of DDD pacemaker. Mascarenhas DA, et al. **Chest** 1990 Sep;98(3):749
Jogging in place. Evaluation of a simplified exercise test. Papazoglou N, et al. **Chest** 1989 Oct;96(4):840–2
Bifascicular block and Wolff-Parkinson-White syndrome. Rakovec P. **Chest** 1990 Jul;98(1):224–5
Right chest electrocardiographic patterns in normal subjects. Tan CC, et al. **Chest** 1990 Mar;97(3):572–5
Patterns of body surface potential and ventriculograms specific to occlusion of subdivisions of the coronary arteries. Horan LG, et al. **Circ Res** 1990 Sep;67(3):683–93
Importance of the great vessels in the genesis of the electrocardiogram. Kilpatrick D, et al. **Circ Res** 1990 Apr; 66(4):1081–7
Spatial domain analysis of late ventricular potentials. Intraoperative and thoracic correlations. Lacroix D, et al. **Circ Res** 1990 Jan;66(1):55–68
Functional distribution of right and left stellate innervation to the ventricles. Production of neurogenic electrocardiographic changes by unilateral alteration of sympathetic tone. Yanowitz F, et al. **Circ Res** 1966 Apr; 18(4):416–28
Long QT syndrome. New electrocardiographic characteristics. Benhorin J, et al. **Circulation** 1990 Aug; 82(2):521–7
Is the electrocardiogram still useful for detection of left ventricular hypertrophy? [comment] Devereux RB. **Circulation** 1990 Mar;81(3):1144–6 Comment on: Circulation 1990 Mar;81(3):815–20.
Prevalence and prognostic significance of exercise-induced silent myocardial ischemia detected by thallium scintigraphy and electrocardiography in asymptomatic volunteers [see comments] Fleg JL, et al. **Circulation** 1990 Feb;81(2):428–36 Comment in: Circulation 1990 Feb;81(2):691–3.
Can serial exercise testing improve the prediction of coronary events in asymptomatic individuals? Josephson RA, et al. **Circulation** 1990 Jan;81(1):20–4
Paradoxical effects of exercise on the QT interval in patients with polymorphic ventricular tachycardia receiving type Ia antiarrhythmic agents. Kadish AH, et al. **Circulation** 1990 Jan;81(1):14–9
Inverted T waves. An electrocardiographic marker of stunned or hibernating myocardium in man? [comment] Kloner RA. **Circulation** 1990 Sep;82(3):1060–1 Comment on: Circulation 1990 Sep;82(3):913–21.
Quantitative and qualitative ST segment monitoring during and after percutaneous transluminal coronary angioplasty. Krucoff MW, et al. **Circulation** 1990 Mar;81(3 Suppl):IV20–6
Comparison of ST segment/heart rate index to standard ST criteria for analysis of exercise electrocardiogram [see comments] Lachterman B, et al. **Circulation** 1990 Jul; 82(1):44–50 Comment in: Circulation 1990 Jul;82(1):302–4.
Long QT interval syndrome. A new look at an old electrocardiographic measurement—the power of the computer. Laks MM. **Circulation** 1990 Oct;82(4):1539–41
Determinants of sensitivity and specificity of electrocardiographic criteria for left ventricular hypertrophy [see comments] Levy D, et al. **Circulation** 1990 Mar;81(3):815–20 Comment in: Circulation 1990 Mar;81(3):1144–6.
Premature ventricular complex morphology. A marker for left ventricular structure and function. Moulton KP, et al. **Circulation** 1990 Apr;81(4):1245–51
Frequency-dependent effects of quinidine on the ventricular action potential and QRS duration in humans. Nademanee K, et al. **Circulation** 1990 Mar;81(3):790–6
Electrocardiographic changes suggestive of myocardial ischemia elicited by dipyridamole infusion in acute

rejection early after heart transplantation. Picano E, et al. **Circulation** 1990 Jan;81(1):72–7

Early afterdepolarizations induced in vivo by reperfusion of ischemic myocardium. A possible mechanism for reperfusion arrhythmias. Priori SG, et al. **Circulation** 1990 Jun;81(6):1911–20

The academic life cycle of a noninvasive test [editorial; comment] Pryor DB. **Circulation** 1990 Jul;82(1):302–4 Comment on: Circulation 1990 Jul;82(1):44–50.

Reversal of segmental hypokinesis by coronary angioplasty in patients with unstable angina, persistent T wave inversion, and left anterior descending coronary artery stenosis. Additional evidence for myocardial stunning in humans [see comments] Renkin J, et al. **Circulation** 1990 Sep;82(3):913–21 Comment in: Circulation 1990 Sep;82(3):1060–1.

Risk stratification of patients with non–Q wave myocardial infarction. The critical role of ST segment depression. The Diltiazem Reinfarction Study Research Group. Schechtman KB, et al. **Circulation** 1989 Nov;80(5):1148–58

Resting electrocardiographic abnormalities suggestive of asymptomatic ischemic heart disease associated with non–insulin–dependent diabetes mellitus in a defined population. Scheidt–Nave C, et al. **Circulation** 1990 Mar; 81(3):899–906

Significance of initial ST segment elevation and depression for the management of thrombolytic therapy in acute myocardial infarction. European Cooperative Study Group for Recombinant Tissue–Type Plasminogen Activator. Willems JL, et al. **Circulation** 1990 Oct;82(4):1147–58

Prognostic significance of the electrocardiogram after Q wave myocardial infarction. The Framingham Study. Wong ND, et al. **Circulation** 1990 Mar;81(3):780–9

Early exercise testing following percutaneous transluminal coronary angioplasty. Korzick DH, et al. **Cleve Clin J Med** 1990 Jan–Feb;57(1):53–6

Strategies for managing the patient with acute non–Q–wave myocardial infarction. Boden WE. **Clin Cardiol** 1989 Jul; 12(7 Suppl 3):III33–40 (46 ref.)

Management of acute non–Q–wave myocardial infarction: role of prophylactic pharmacotherapy and indications for predischarge coronary arteriography. Gibson RS. **Clin Cardiol** 1989 Jul;12(7 Suppl 3):III26–32 (35 ref.)

Prognosis during one year for patients with myocardial infarction in relation to the development of Q waves: experiences from the Miami trial. Herlitz J, et al. **Clin Cardiol** 1990 Apr;13(4):261–4

Diurnal change of giant negative T wave in patients with hypertrophic cardiomyopathy. Iida K, et al. **Clin Cardiol** 1990 Apr;13(4):272–8

Giant P wave in a patient with right ventricular cardiomyopathy. Martini B, et al. **Clin Cardiol** 1990 Feb; 13(2):143–5

Non–Q–wave myocardial infarction: incidence, pathophysiology, and clinical course compared with Q–wave infarction. O'Brien TX, et al. **Clin Cardiol** 1989 Jul;12(7 Suppl 3):III3–9 (44 ref.)

Limb leads of the electrocardiogram: sequencing revisited [letter] Zatuchni J. **Clin Cardiol** 1990 Jul;13(7):A12

Diagnosis of perioperative myocardial infarction by considering relationship of postoperative electrocardiogram changes and enzyme increases after coronary bypass operation. Griesmacher A, et al. **Clin Chem** 1990 Jun;36(6):883–7

Commission of the European Communities COMAC–BME Workshop on Fetal Electro– and Phonocardiography. Ischia, Italy, 15–18 September 1988. **Clin Phys Physiol Meas** 1989;10 Suppl B:1–78

Description of a real–time system to extract the fetal electrocardiogram. Callaerts D, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:7–10

Power spectral analysis of the heart rate of the human fetus at 26 and 36 weeks of gestation. Ferrazzi E, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:57–60

Long–term ST waveform changes in the ovine fetal electrocardiogram: the relationship to spontaneous labour and intrauterine death. Greene KR, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:33–40

Electrocardiogram waveform in fetal sheep: a system for ECG analysis. Hasaart TH, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:41–6

Variability of the ECG waveform in fetal and neonatal lambs. Jongsma HW, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:47–50

The effect of changes in the conductive medium on the fetal ECG throughout gestation. Oostendorp TF, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:11–20

Cardiac repolarization properties during standardized exercise test as studied by QT, QT peak and terminated T–wave intervals. Sundqvist K, et al. **Clin Physiol** 1989 Oct;9(5):419–25

Diagnostic and prognostic value of exercise electrocardiography for coronary artery disease. Aronow WS. **Compr Ther** 1989 Nov;15(11):20–6 (22 ref.)

Spectral analysis of the fetal electrocardiogram. Abboud S, et al. **Comput Biol Med** 1989;19(6):409–15

Microcomputer collection and analysis of RR–interval data in the BB–rat. McEwen TA, et al. **Comput Biol Med** 1989; 19(6):443–52

Stability of computer ECG amplitude measurements in the presence of noise. The CSE Working Party. Zywietz C, et al. **Comput Biomed Res** 1990 Feb;23(1):10–31

Clinical skill–building simulations in cardiology: HeartLab and EkgLab. Bergeron BP, et al. **Comput Methods Programs Biomed** 1989 Oct–Nov; 30(2–3):111–26

Determinants of left ventricular hypertrophy in arterial hypertension. Heinemann G, et al. **Cor Vasa** 1990; 32(1):19–25

Transoesophageal atrial pacing in the diagnosis of myocardial ischaemia assessed with the 12–lead electrocardiogram and precordial ST segment mapping. Janota M, et al. **Cor Vasa** 1990;32(2):89–98

Diagnosis of ischaemic heart disease based on data of precordial mapping. Riabykina GV, et al. **Cor Vasa** 1989; 31(6):444–50

Inability to detect parasympathetic autonomic neuropathy in experimental canine diabetes mellitus in an electrocardiographic study. Atkins CE, et al. **Diabetes Res** 1989 May;11(1):39–43

QT prolongation on the electrocardiogram in diabetic autonomic neuropathy. Chambers JB, et al. **Diabetic Med** 1990 Feb;7(2):105–10

QT interval length and diabetic autonomic neuropathy. Ewing DJ, et al. **Diabetic Med** 1990 Jan;7(1):23–6

Electrocorticographic (ECoG) correlates of language. I. Desynchronization in temporal language cortex during object naming. Ojemann GA, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov; 73(5):453–63

Importance of quantitative analysis of ventricular arrhythmias for predicting the prognosis in low–risk postmyocardial infarction patients. European Infarction Study Group. Andresen D, et al. **Eur Heart J** 1990 Jun; 11(6):529–36

Follow–up by repeated signal–averaged surface QRS in patients with the syndrome of arrhythmogenic right ventricular dysplasia. Blomström–Lundqvist C, et al. **Eur Heart J** 1989 Sep;10 Suppl D:54–60

Stress testing for management of post–PTCA patients: routine or elective. De Feyter PJ, et al. **Eur Heart J** 1989 Dec;10 Suppl G:27–9

Recognition of restenosis: can patients be defined in whom the exercise–ECG result makes angiographic restudy unnecessary? Kadel C, et al. **Eur Heart J** 1989 Dec;10 Suppl G:22–6

The significance of U wave polarity in patients with a prior anterior myocardial infarction. Kanemoto N, et al. **Eur Heart J** 1990 Jul;11(7):634–42

ECG evidence of limited myocardial infarction following coronary occlusion treated by early intravenous rt–PA infusion. Kelly R, et al. **Eur Heart J** 1990 Apr;11(4):328–33

Thallium–201 scintigraphy after dipyridamole infusion with low–level exercise. III. Clinical significance and additional diagnostic value of ST segment depression and angina pectoris during the test. Laarman GJ, et al. **Eur Heart J** 1990 Aug;11(8):705–11

Effects of tilt and exercise on signal–averaged electrocardiogram after acute myocardial infarction. Lombardi F, et al. **Eur Heart J** 1990 May;11(5):421–8

Comparative value of visual and quantitative analysis of thallium–201 imaging after exercise in patients with an abnormal baseline repolarization on the electrocardiogram at rest. Niemeyer MG, et al. **Eur Heart J** 1990 May; 11(5):413–20

Detection of restenosis after coronary angioplasty for single–vessel disease: how reliable are exercise electrocardiography and scintigraphy in asymptomatic patients? Schroeder E, et al. **Eur Heart J** 1989 Dec;10 Suppl G:18–21

Coronary stenosis vasomotion during dynamic exercise before and after PTCA. Suter TM, et al. **Eur Heart J** 1989 Dec;10 Suppl G:58–63

Electrical ablation of junctional tachycardias showing a long RP interval. Ward DE, et al. **Eur Heart J** 1989 Aug; 10(8):718–24

Surgery for ventricular tachyarrhythmias based on fragmentation mapping in sinus rhythm alone. Bourke JP, et al. **Eur J Cardiothorac Surg** 1989;3(5):401–6; discussion 406–7

Emergency surgical revascularization following coronary angioplasty: evaluation of operative results by isoenzyme analysis and electrocardiography. Hake U, et al. **Eur J Cardiothorac Surg** 1989;3(6):549–53

QRS changes in direct fetal electrocardiogram during uterine overstimulation; report of four cases. Carretti N, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Dec;33(3):281–6

Battery ingestion and EKG interference [letter] Kaplan DS. **Gastrointest Endosc** 1990 Mar–Apr;36(2):162–3

ECG record during changes in oesophageal pH. Wani M, et al. **Gut** 1990 Feb;31(2):127–8

Why are so many critical care nurses unable to recognize ventricular tachycardia in the 12–lead electrocardiogram? [letter] **Heart Lung** 1990 Jan;19(1):4–9

Readers respond with ideas for improving diagnostic abilities [editorial] Dracup K, et al. **Heart Lung** 1990 Jan;19(1):3

Electrocardiographic response to ice water ingestion. Kirchhoff KT, et al. **Heart Lung** 1990 Jan;19(1):41–8

Non–Q wave versus nontransmural infarction. Valle BK, et al. **Heart Lung** 1990 Mar;19(2):208–11

Atrial flutter, fibrillation, or artifact? Hancock EW. **Hosp Pract [Off]** 1990 Feb 15;25(2):29–30

Tachycardia and panic in a young woman. Hancock EW. **Hosp Pract [Off]** 1989 Dec 15;24(12):29–30

Ventricular tachycardia or aberrancy? Hancock EW. **Hosp Pract [Off]** 1990 May 15;25(5):35, 39

Irregular tachycardia after cardiac surgery. Hancock EW. **Hosp Pract [Off]** 1990 Jan 15;25(1):83–4

Syncope and bigeminal rhythm. Hancock EW. **Hosp Pract [Off]** 1990 Apr 15;25(4):29–30

Long Q–T interval in an Asian immigrant. Hancock EW. **Hosp Pract [Off]** 1989 Oct 15;24(10):21, 24

Irregular rhythm in a preoperative patient. Hancock EW. **Hosp Pract [Off]** 1990 Sep 15;25(9):133–4

Ventricular or supraventricular tachycardia? Hancock EW. **Hosp Pract [Off]** 1990 Mar 15;25(3):41, 44–5

ST segment depression elicited by dipyridamole infusion in asymptomatic hypertensive patients. Picano E, et al. **Hypertension** 1990 Jul;16(1):19–25

Activation in unipolar cardiac electrograms: a frequency analysis. Cabo C, et al. **IEEE Trans Biomed Eng** 1990 May; 37(5):500–8

The median frequency of the ECG during ventricular fibrillation: its use in an algorithm for estimating the duration of cardiac arrest. Dzwonczyk R, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):640–6

A comparison of the noise sensitivity of nine QRS detection algorithms. Friesen GM, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):85–98

Painless myocardial ischaemia and ventricular fibrillation during treadmill stress test. Gupta R. **Indian Heart J** 1989 Jul–Aug;41(4):274–7

Fulminant diptheretic myocarditis. Havaldar PV, et al. **Indian Heart J** 1989 Jul–Aug;41(4):265–9

Correlation of 12 lead ECG QRS score with severity of aortic stenosis. Kishore AG, et al. **Indian Heart J** 1990 Jan–Feb; 42(1):62–5

Insulin administration reverses the metabolic and electrocardiographic changes in acute myocarditis induced by Indian red scorpion (Buthus tamulus) venom in experimental dogs. Murthy RR, et al. **Indian Heart J** 1990 Jan–Feb;42(1):35–42

Echocardiographic and electrocardiographic correlation in cases of congestive cardiomyopathy. Samdarshi TE, et al. **Indian Heart J** 1989 Jul–Aug;41(4):252–5

Effects of air–flow limitation on the electrocardiogram in chronic obstructive pulmonary diseases (COPD). Singh VK, et al. **Indian J Chest Dis Allied Sci** 1989 Jan–Mar; 31(1):1–8

Supraventricular tachycardia. Raghuveer TS, et al. **Indian Pediatr** 1989 Sep;26(9):957–60

DC cardioversion of supraventricular tachycardia in neonate [letter] Singh S, et al. **Indian Pediatr** 1989 Aug;26(8):846–7

A spectral analysis of the high frequency QRS potentials observed during acute myocardial ischemia in dogs. Abboud S, et al. **Int J Cardiol** 1990 Mar;26(3):285–90

Electrocardiographic abnormalities and left ventricular systolic function in Chagas' heart disease. Casado J, et al. **Int J Cardiol** 1990 Apr;27(1):55–62

Electrocardiographic diagnosis of left ventricular hypertrophy in the presence of left bundle branch block: a wasted effort. Fragola PV, et al. **Int J Cardiol** 1990 Aug; 28(2):215–21

The haemodynamic response to ST segment changes during coronary arteriography. Levy RD, et al. **Int J Cardiol** 1990 Mar;26(3):343–8

Trypanosoma cruzi infection and electrocardiographic findings among active manual workers. A population–based study in central Brazil. Zicker F, et al. **Int J Epidemiol** 1990 Mar;19(1):182–6

Microprocessor based waveform analysis of the fetal electrocardiogram during labor. Lilja H, et al. **Int J Gynaecol Obstet** 1989 Oct;30(2):109–16

Artifacts mimicking ventricular tachycardia. Kriwisky M, et al. **Isr J Med Sci** 1990 Aug;26(8):465

Guidelines for clinical intracardiac electrophysiologic studies. A report of the American College of Cardiology/American Heart Association Task Force on Assessment of Diagnostic and Therapeutic Cardiovascular Procedures (Subcommittee to Assess Clinical Intracardiac Electrophysiologic Studies). **J Am Coll Cardiol** 1989 Dec; 14(7):1827–42

QRST area maps and cardiac arrhythmias. Abildskov JA. **J Am Coll Cardiol** 1989 Nov 15;14(6):1537–8

Clinical significance of giant negative T waves in hypertrophic cardiomyopathy [see comments] Alfonso F, et al. **J Am Coll Cardiol** 1990 Apr;15(5):965–71 Comment in: J Am Coll Cardiol 1990 Apr;15(5):972–3.

The prognostic significance of first myocardial infarction type (Q wave versus non–Q wave) and Q wave location. The Multicenter Diltiazem Post–Infarction Research Group [see comments] Benhorin J, et al. **J Am Coll Cardiol** 1990 May;15(6):1201–7 Comment in: J Am Coll Cardiol 1990 May;15(6):1208–11.

Variations and value of exercise electrocardiography [comment] Bruce RA. **J Am Coll Cardiol** 1989 Nov 15; 14(6):1509–10 Comment on: J Am Coll Cardiol 1989 Nov 15;14(6):1501–8.

Spectral and temporal interrogation of signal–averaged electrocardiograms: the best is yet to come [comment] Cain ME, et al. **J Am Coll Cardiol** 1989 Dec;14(7):1741–3 Comment on: J Am Coll Cardiol 1989 Dec;14(7):1731–40.

Exercise–induced ST segment depression in the diagnosis of multivessel coronary disease: a meta analysis [see comments] Detrano R, et al. **J Am Coll Cardiol** 1989 Nov 15;14(6):1501–8 Comment in: J Am Coll Cardiol 1989 Nov

15;14(6):1509–10.
Day-to-day variability of voltage measurements used in electrocardiographic criteria for left ventricular hypertrophy. Farb A, et al. **J Am Coll Cardiol** 1990 Mar 1;15(3):618–23
Acute myocardial infarction: does the lack of Q waves help or hinder? [comment] Ferlinz J. **J Am Coll Cardiol** 1990 May;15(6):1208–11 (38 ref.) Comment on: J Am Coll Cardiol 1990 May;15(6):1201–7.
Sustained intraatrial reentrant tachycardia: clinical, electrocardiographic and electrophysiologic characteristics and long-term follow-up. Haines DE, et al. **J Am Coll Cardiol** 1990 May;15(6):1345–54
Lack of specificity of new negative U waves for anterior myocardial ischemia as evidenced by intracoronary electrogram during balloon angioplasty. Jain A, et al. **J Am Coll Cardiol** 1990 Apr;15(5):1007–11
Late potentials on the signal-averaged electrocardiogram after canine myocardial infarction: correlation with induced ventricular arrhythmias during the healing phase. Kuchar DL, et al. **J Am Coll Cardiol** 1990 May;15(6):1365–73
Assessment of "silent" restenosis and long-term follow-up after successful angioplasty in single vessel coronary artery disease: the value of quantitative exercise electrocardiography and quantitative coronary angiography. Laarman G, et al. **J Am Coll Cardiol** 1990 Sep;16(3):578–85
Q waves in hypertrophic cardiomyopathy in relation to the distribution and severity of right and left ventricular hypertrophy [see comments] Lemery R, et al. **J Am Coll Cardiol** 1990 Aug;16(2):368–74 Comment in: J Am Coll Cardiol 1990 Aug;16(2):375–6.
Rate dependence of action potential duration and refractoriness in canine ventricular endocardium differs from that of epicardium: role of the transient outward current. Litovsky SH, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):1053–66
Painless exercise ST deviation on the treadmill: long-term prognosis. Mark DB, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):885–92
The giant negative T wave revisited ... in hypertrophic cardiomyopathy [comment] Maron BJ. **J Am Coll Cardiol** 1990 Apr;15(5):972–3 Comment on: J Am Coll Cardiol 1990 Apr;15(5):965–71.
Q waves in hypertrophic cardiomyopathy: a reassessment [editorial; comment] Maron BJ. **J Am Coll Cardiol** 1990 Aug;16(2):375–6 Comment on: J Am Coll Cardiol 1990 Aug;16(2):368–74.
Fast Fourier transformation of the entire low amplitude late QRS potential to predict ventricular tachycardia [see comments] Pierce DL, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1731–40 Comment in: J Am Coll Cardiol 1989 Dec;14(7):1741–3.
Acute myocardial uptake of digoxin in humans: correlation with hemodynamic and electrocardiographic effects [see comments] Powell AC, et al. **J Am Coll Cardiol** 1990 May; 15(6):1238–47 Comment in: J Am Coll Cardiol 1990 May;15(6):1248–9.
Differential risk patterns associated with 3 month as compared with 3 to 12 month mortality and reinfarction after non-Q wave myocardial infarction. The Diltiazem Reinfarction Study Group. Schechtman KB, et al. **J Am Coll Cardiol** 1990 Apr;15(5):940–7
Effect of coronary angioplasty on electrocardiographic changes in patients with unstable angina secondary to left anterior descending coronary artery disease. Shawl FA, et al. **J Am Coll Cardiol** 1990 Aug;16(2):325–31
Identification of susceptibility to ventricular tachycardia after myocardial infarction by nondipolarity of QRST area maps. Tsunakawa H, et al. **J Am Coll Cardiol** 1989 Nov 15; 14(6):1530–6
Pericardiocentesis guided by a pulse generator. Tweddell JS, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1074–83
The electrocardiogram in patients with multiple accessory atrioventricular pathways. Wellens HJ, et al. **J Am Coll Cardiol** 1990 Sep;16(3):745–51
Correlation between left ventricular risk area and clinical, electrocardiographic, hemodynamic, and angiographic variables during acute myocardial infarction. Touchstone DA, et al. **J Am Soc Echocardiogr** 1990 Mar–Apr; 3(2):106–17
Electrocardiogram of the month. Bundle branch block. Roberts WC, et al. **J Arkansas Med Soc** 1990 Feb;86(9):362
Electrocardiogram of the month. Smith L, et al. **J Arkansas Med Soc** 1989 Sep;86(4):148
Torsade de pointes—an ECG discussion. Abhyankar AD, et al. **J Assoc Physicians India** 1989 Oct;37(10):653–4
Preoperative ECG—a must [letter] Chaturvedi A, et al. **J Assoc Physicians India** 1989 Sep;37(9):613
ECG patterns in athletes [letter] Jain DK, et al. **J Assoc Physicians India** 1990 May;38(5):376
Electrocardiographic left atrial enlargement—correlation with echo. Jose VJ, et al. **J Assoc Physicians India** 1989 Aug;37(8):497–9
Sino-atrial block in typhoid fever [letter] Mathur SL. **J Assoc Physicians India** 1990 Mar;38(3):243–4
Early repolarization variant. Mittal SR, et al. **J Assoc Physicians India** 1990 May;38(5):367–8
Torsades de pointes—proarrhythmia [editorial] Mody R. **J Assoc Physicians India** 1989 Oct;37(10):625–7 (20 ref.)
DC cardioversion and coronary artery spasm [see comments] Siwach SB, et al. **J Assoc Physicians India** 1989 Aug; 37(8):545 Comment in: J Assoc Physicians India 1989 Dec;37(12):803.
Transient ST segment elevation following DC cardioversion—merely an 'observation' today [letter; comment] Turakhia DP. **J Assoc Physicians India** 1989 Dec;37(12):803 Comment on: J Assoc Physicians India 1989 Aug;37(8):545.
Interaction between respiratory and RR interval oscillations at low frequencies. Aguirre A, et al. **J Auton Nerv Syst** 1990 Mar;29(3):241–6
Method for recording short latency evoked potentials using an EKG artifact elimination procedure. Nakamura M, et al. **J Biomed Eng** 1990 Jan;12(1):51–6
ECG abnormalities and systemic diseases in patients having cataract or glaucoma surgery [letter] Gallenga PE, et al. **J Cataract Refract Surg** 1990 Jul;16(4):528
QRS-activated ventilation during general anesthesia for extracorporeal shock wave lithotripsy. Perel A, et al. **J Clin Anesth** 1989;1(4):268–71
The effect of nortriptyline in elderly patients with cardiac conduction disease. Dietch JT, et al. **J Clin Psychiatry** 1990 Feb;51(2):65–7
Selected abstracts from the Sixteenth Interntional Congress on Electrocardiology. **J Electrocardiol** 1990 Jul; 23(3):275–84
Proceedings of the Engineering Foundation Conference: Computerized interpretation of the electrocardiogram XIV. April 23–28, 1989. **J Electrocardiol** 1989;22 Suppl:1–262
An improved detection algorithm in fetal electrocardiography. Abboud S, et al. **J Electrocardiol** 1989;22 Suppl:238–42
Detection of rejection after heart transplantation. A computerized precordial mapping experience. Aleixo A, et al. **J Electrocardiol** 1989;22 Suppl:200–3
Exercise performance in patients with hypertension. Relation to electrocardiographic criteria for left ventricular hypertrophy. Bahler RC, et al. **J Electrocardiol** 1990 Jan; 23(1):41–8
Natural history of ST-segment potential distribution determined by body surface mapping in patients with acute inferior infarction. Bell AJ, et al. **J Electrocardiol** 1989 Oct; 22(4):333–41
Verification of the high-resolution electrocardiogram. Berbari EJ, et al. **J Electrocardiol** 1989;22 Suppl:1–6
Electrophysiological evaluation of the sinus node in patients with atrioventricular and/or intraventricular conduction defects. Bolognesi R, et al. **J Electrocardiol** 1989 Oct; 22(4):297–301
Nonparametric comparison of entire ROC curves for computerized ECG left ventricular hypertrophy algorithms using data from the Framingham Heart Study. Campbell G, et al. **J Electrocardiol** 1989;22 Suppl:152–7
Evaluation of Fourier transform filter for high-resolution ECG. Christenson DW, et al. **J Electrocardiol** 1989;22 Suppl:33–40
QT interval and repolarization time in patients with intraventricular conduction delay. Das G. **J Electrocardiol** 1990 Jan;23(1):49–52
Classification of arrhythmias using atrial and ventricular endocardial electrograms. DiCarlo L, et al. **J Electrocardiol** 1989;22 Suppl:230
Body surface potential mapping to monitor the effects of thrombolytic therapy following acute myocardial infarction. Edwards SW, et al. **J Electrocardiol** 1989;22 Suppl:82–90
Variability of different methods for measurement of ECG intervals and ECG interval temporal variation. Gitter MJ, et al. **J Electrocardiol** 1989;22 Suppl:125–6
Ventricular fibrillation detection by autocorrelation function peak analysis. Guillén SG, et al. **J Electrocardiol** 1989;22 Suppl:253–62
Clinical application of electrocardiographic computer model. Harumi K, et al. **J Electrocardiol** 1989;22 Suppl:54–63
Electrocardiographic diagnosis of left atrial enlargement. Role of the P terminal force in lead V1. Hopkins CB, et al. **J Electrocardiol** 1989 Oct;22(4):359–63
A basis for determining body surface potential patterns attributable to single-site coronary arterial occlusion. Horan LG, et al. **J Electrocardiol** 1989;22 Suppl:99–106
A computer-based model of parasystolic activity modulated by ventricular activation in the open-chest dog. Hoshino K, et al. **J Electrocardiol** 1989 Oct;22(4):277–83
Concomittant ST elevation in inferior and anterior leads in acute myocardial infarction. Clinical and anatomical significance. Ilia R, et al. **J Electrocardiol** 1990 Jul; 23(3):199–205
Intermittent ventricular parasystolic bigeminy accompanied by reentrant ventricular extrasystoles. Izumi K. **J Electrocardiol** 1990 Apr;23(2):177–83
A system for simultaneous esophageal atrial pacing and ventricular recording in computer analysis of posterior ischemia. Jadvar H, et al. **J Electrocardiol** 1989;22 Suppl:248–52
Automated detection and analysis of monophasic action potentials in vivo. Kanaan N, et al. **J Electrocardiol** 1989; 22 Suppl:127
The relationship of ST elevation to eventual QRS loss in acute inferior myocardial infarction. Kilpatrick D, et al. **J Electrocardiol** 1989 Oct;22(4):343–8
Mechanism of ventricular extrasystoles with fixed coupling. A theoretical model derived from the concept of longitudinal dissociation in the reentrant pathway of extrasystoles. Kinoshita S, et al. **J Electrocardiol** 1990 Jul; 23(3):249–54
Electrocardiogram on the cover [letter] Kinoshita S, et al. **J Electrocardiol** 1990 Apr;23(2):185–6
Influence of sinus impulses on the parasystolic cycle length. Kinoshita S, et al. **J Electrocardiol** 1989 Oct;22(4):285–91
Multigroup diagnosis of the standard 12-lead electrocardiogram. Kornreich F, et al. **J Electrocardiol** 1989;22 Suppl:141–51
Multigroup diagnosis of body surface potential maps. Kornreich F, et al. **J Electrocardiol** 1989;22 Suppl:169–78
Use of high-pass filtering to detect late potentials in the signal-averaged ECG. Lander P, et al. **J Electrocardiol** 1989;22 Suppl:7–12
Evaluation of LVH as reported from a computer ECG system using echocardiography as a reference. Löfsjögård-Nilsson E, et al. **J Electrocardiol** 1989;22 Suppl:179–82
Normal limits of the high-fidelity pediatric ECG. Preliminary observations. Macfarlane PW, et al. **J Electrocardiol** 1989;22 Suppl:162–8
Comparison of eight precordial ECG systems in the monitoring of patients with acute anterior Q wave myocardial infarction. Madias JE. **J Electrocardiol** 1989;22 Suppl:107
Alternating Wolff-Parkinson-White syndrome associated with attack of angina. Mangiafico RA, et al. **J Electrocardiol** 1990 Jul;23(3):255–9
Persistent changes in the body surface electrocardiogram following successful coronary angioplasty. Montague TJ, et al. **J Electrocardiol** 1989;22 Suppl:91–8
Electrocardiographic manifestations of combined hypercalcemia and hypermagnesemia. Mosseri M, et al. **J Electrocardiol** 1990 Jul;23(3):235–41
Localization of the accessory pathway in ventricular preexcitation (WPW) by means of combined ECG and VCG recordings. Nzayinambaho K, et al. **J Electrocardiol** 1989;22 Suppl:183–8
Electrocardiographic findings in patients with hypertrophic cardiomyopathy. Relation to presenting features and prognosis. Pelliccia F, et al. **J Electrocardiol** 1990 Jul; 23(3):213–22
Suppression of baseline wander in the ECG using a bilinearly transformed, null-phase filter. Pottala EW, et al. **J Electrocardiol** 1989;22 Suppl:243–7
R peak delay in V6. Diagnostic implications in coronary heart disease. Recke SH, et al. **J Electrocardiol** 1989 Oct; 22(4):349–58
Characterization of rhythms from intracardiac and epicardial leads using coherence spectra. Sahakian A, et al. **J Electrocardiol** 1989;22 Suppl:231
Synthesis of the 12-lead electrocardiogram from a 3-lead subset using patient-specific transformation vectors. An algorithmic approach to computerized signal synthesis. Scherer JA, et al. **J Electrocardiol** 1989;22 Suppl:128
Use of body surface maps to identify vessel site of coronary occlusion. Sridharan MR, et al. **J Electrocardiol** 1989;22 Suppl:72–81
A cardiac potential mapping system. Thomas CW, et al. **J Electrocardiol** 1989;22 Suppl:64–71
Echocardiographic study of U wave inversion in the electrocardiograms of hypertensive patients. Twidale N, et al. **J Electrocardiol** 1989 Oct;22(4):365–71
Clinical application of the signal-averaged electrocardiogram and "late potentials". Vatterott PJ, et al. **J Electrocardiol** 1989;22 Suppl:13–8
Computer simulation of supraventricular tachycardia with the Wolff-Parkinson-White syndrome using three-dimensional heart models. Wei DM, et al. **J Electrocardiol** 1990 Jul;23(3):261–73
Progress on the CSE diagnostic study. Application of McNemar's test revisited. Willems JL, et al. **J Electrocardiol** 1989;22 Suppl:135–40
Electrocardiographic tall R waves in the right precordial leads. Comparison of recently proposed ECG and VCG criteria for distinguishing posterolateral myocardial infarction from prominent anterior forces in normal subjects. Zema MJ. **J Electrocardiol** 1990 Apr;23(2):147–56
Sinus node electrogram recording in complete atrioventricular block. Zhang D, et al. **J Electrocardiol** 1989 Oct;22(4):303–5
Age-associated changes in the components of atrioventricular conduction in apparently healthy volunteers. Fleg JL, et al. **J Gerontol** 1990 May; 45(3):M95–100
Spectral analysis of R-R and arterial pressure variabilities to assess sympatho-vagal interaction during mental stress in humans. Pagani M, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S14–5
Correlations between ST-segment depressions in patients with arterial hypertension and changes in arterial blood pressure and the heart rate. Wehling M, et al. **J Hypertens Suppl** 1989 Dec;7(6):S110–1
Mean frontal QRS axis and pulmonary artery pressures in rheumatic mitral stenosis. Gupta SR, et al. **J Indian Med Assoc** 1989 Aug;87(8):180–2
ECG of the month. Against the rule. Second-degree AV block. Martinez-Lopez JI. **J La State Med Soc** 1990 Jul; 142(7):9–12
ECG of the month. Six fates. Premature atrial and ventricular impulses. Martinez-Lopez JI. **J La State Med Soc** 1990 May;142(5):9, 11–2

ECG of the month. The swinging heart. Electrical alternans. Martinez-Lopez JI. **J La State Med Soc** 1990 Apr; 142(4):5–8

ECG of the month. Freedom of expression. Intermittent ventricular parasystole. Martinez-Lopez JI. **J La State Med Soc** 1990 Jun;142(6):3, 5–6

ECG of the month. Hand-made. Pseudoarrhythmia. Martinez-Lopez JI. **J La State Med Soc** 1990 Feb;142(2):9, 11–2

ECG of the month. No crystal ball. Sinus rhythm; notched P waves. Martinez-Lopez JI. **J La State Med Soc** 1990 Jan;142(1):11–4

ECG of the month. Trees or forest? Ventricular bigeminal rhythm; AV dissociation. Martinez-Lopez JI. **J La State Med Soc** 1989 Nov;141(11):9, 11–2

ECG of the month. A regional event. Extensive anterior wall myocardial infarction. Martinez-Lopez JI. **J La State Med Soc** 1990 Mar;142(3):7–10

ECG of the month. Is there a message? "Infarct-pattern" premature ventricular impulses. Martinez-Lopez JI. **J La State Med Soc** 1989 Sep;141(9):5–8

ECG of the month. Achilles heel. Wide QRS tachycardia. Martinez-Lopez JI. **J La State Med Soc** 1989 Dec; 141(12):13–6

ECG of the month. On the right track. Complete left bundle branch block. Martinez-Lopez JI. **J La State Med Soc** 1989 Oct;141(10):7–10

Wavefront propagation in an activation model of the anisotropic cardiac tissue: asymptotic analysis and numerical simulations. Colli Franzone P, et al. **J Math Biol** 1990;28(2):121–76

Fetal ECG waveform analysis should improve fetal surveillance in labour. Arulkumaran S, et al. **J Perinat Med** 1990;18(1):13–22

The potential of epicardial activation mapping in isolated hearts for the assessment of arrhythmogenic and antiarrhythmic drug activity. Dhein S, et al. **J Pharmacol Methods** 1989 Nov;22(3):197–206

An improved method to correct the QT interval of the electrocardiogram for changes in heart rate. Van de Water A, et al. **J Pharmacol Methods** 1989 Nov;22(3):207–17

Study on experimental model of coronary artery thrombogenesis and acute myocardial infarction: changes in epicardial ECG, platelet function and biochemistry, and pathology. Fang WY, et al. **J Tongji Med Univ** 1989; 9(2):117–20

Electrocardiographic abnormalities in patients with Lassa fever. Cummins D, et al. **J Trop Med Hyg** 1989 Oct; 92(5):350–5

The value of silent myocardial ischemia monitoring in the prediction of perioperative myocardial infarction in patients undergoing peripheral vascular surgery. Pasternack PF, et al. **J Vasc Surg** 1989 Dec;10(6):617–25

Serial electrocardiographic and angiographic changes of patients with hypertrophic cardiomyopathy. Horita Y, et al. **Jpn Circ J** 1989 Nov;53(11):1327–42

Spatial distribution of exercise-induced ST-segment depression and U-wave inversion in identifying the ischemic site in patients with coronary artery disease. Ikeda K, et al. **Jpn Circ J** 1989 Jul;53(7):695–706

The role of late potentials in the assessment of myocardial degeneration in idiopathic dilated cardiomyopathy. Konta T, et al. **Jpn Circ J** 1990 Jan;54(1):14–20

Determinants of late potentials in myocardial infarction. Ohnishi Y, et al. **Jpn Circ J** 1989 Oct;53(10):1192–8

Value of the signal-averaged electrocardiogram as a predictor of sudden death in myocardial infarction and dilated cardiomyopathy. Ohnishi Y, et al. **Jpn Circ J** 1990 Feb;54(2):127–36

Prognostic significance of conduction disturbance and reduction of left precordial voltage of electrocardiogram in hypertrophic cardiomyopathy. Suwa M, et al. **Jpn Circ J** 1989 Sep;53(9):1045–54

Origin of the giant R wave in acute transmural myocardial infarction in the pig. Chang WS, et al. **Jpn Heart J** 1989 Nov;30(6):863–83

Chronic effect of smoking on the electrocardiogram. Chatterjee S, et al. **Jpn Heart J** 1989 Nov;30(6):827–39

Body surface electrocardiographic mapping to assess left ventricular diastolic overload in valvular heart disease. Kato N, et al. **Jpn Heart J** 1990 Mar;31(2):145–59

AV nodal reentrant tachycardia with Mahaim fiber conduction. Komatsu C, et al. **Jpn Heart J** 1989 Nov; 30(6):817–25

Signal-averaging electrocardiogram in patients with diabetes mellitus. Yang Q, et al. **Jpn Heart J** 1990 Jan;31(1):25–33

Intrapartum fetal ECG electrodes [letter] Penman DG, et al. **Lancet** 1990 Jul 7;336(8706):49–50

Silent myocardial ischemia. Hammill SC, et al. **Mayo Clin Proc** 1990 Mar;65(3):374–83 (52 ref.)

Electrical properties of tissues involved in the conduction of foetal ECG. Oostendorp TF, et al. **Med Biol Eng Comput** 1989 May;27(3):322–4

Three-dimensional reconstruction of cardiac displacement patterns on the chest wall during the P, QRS and T-segments of the ECG by laser speckle interferometry. Ramachandran G, et al. **Med Biol Eng Comput** 1989 Sep; 27(5):525–30

Bottom-up approach to the ECG pattern-recognition problem. Trahanias P, et al. **Med Biol Eng Comput** 1989 May;27(3):221–9

New quantitative and qualitative approaches to the inverse problem of electrocardiology: their theoretical relationship and experimental consistency. Greensite F, et al. **Med Phys** 1990 May-Jun;17(3):369–79

Quantitative QRS changes with exercise in children and adolescents. Paridon SM, et al. **Med Sci Sports Exerc** 1990 Apr;22(2):159–64

Cardiac arrhythmias and electrocardiographic changes during upper and lower gastrointestinal endoscopy. Gupta SC, et al. **Milit Med** 1990 Jan;155(1):9–11

Predictive value of preoperative electrocardiographic monitoring [letter; comment] **N Engl J Med** 1990 Mar 29; 322(13):931–2 Comment on: N Engl J Med 1989 Nov 9;321(19):1296–300.

The diagnostic sensitivity of electrophysiologic testing in patients with syncope caused by transient bradycardia [see comments] Fujimura O, et al. **N Engl J Med** 1989 Dec 21;321(25):1703–7 Comment in: N Engl J Med 1990 May 10;322(19):1396–7.

Hyperkalaemia simulating electrocardiographic changes of myocardial ischaemia [letter; comment] Cozma G, et al. **Nephrol Dial Transplant** 1990;5(3):237–8 Comment on: Nephrol Dial Transplant 1989;4(3):233–5.

Acute atrial endocardial P wave amplitude and chronic pacemaker sensitivity requirements: relation to patient age and presence of sinus node disease. Brandt J, et al. **PACE** 1990 Apr;13(4):417–24

The tall R wave in lead V1 in posterior myocardial infarction: a reciprocal sign or a His-Purkinje conduction disturbance? Brembilla-Perrot B, et al. **PACE** 1989 Oct;12(10):1650–9

Electrophysiological and anatomical findings in heart transplantation: experimental study. Castejon R, et al. **PACE** 1990 Jul;13(7):845–51

The use of the signal-averaged electrocardiogram in predicting arrhythmic events in patients with recent myocardial infarction. Cripps TR, et al. **PACE** 1989 Dec; 12(12):1956–60

Signal-averaged electrocardiography of the terminal QRS in healthy young adults. Danford DA, et al. **PACE** 1989 Nov;12(11):1712–6

Daily bedside electrophysiological testing following surgery for the WPW syndrome. Fisher JD, et al. **PACE** 1990 Mar; 13(3):293–301

The ECG interpretation channel [editorial] Furman S. **PACE** 1990 Mar;13(3):255

Entrainment of ventricular tachycardia by sinus rhythm. Kremers MS, et al. **PACE** 1989 Oct;12(10):1660–6

The duration of the sinus node depolarization on transvenous sinus node electrograms can identify sinus node dysfunction and can suggest its severity. Reiffel JA, et al. **PACE** 1989 Nov;12(11):1746–56

The electrocardiographic manifestation of combined AV nodal Wenckebach periodicity and reentry. Schweitzer P. **PACE** 1989 Dec;12(12):1846–50

Localization of accessory pathways in the Wolff-Parkinson-White syndrome. Szabo TS, et al. **PACE** 1989 Oct;12(10):1691–705 (52 ref.)

Discrimination of retrograde from anterograde atrial activation using intracardiac electrogram waveform analysis. Throne RD, et al. **PACE** 1989 Oct;12(10):1622–30

Changes in morphology of the paced QRS complex related to pacemaker output. van Gelder LM, et al. **PACE** 1989 Oct;12(10):1640–9

Undersensing of P waves in the presence of an adequate P wave due to automatic postventricular atrial refractory period extension. Wilson JH, et al. **PACE** 1989 Nov; 12(11):1729–32

Electrophysiological and anatomical substrates for late potential recorded by signal averaging in seven-day-old myocardial infarction in dogs. Yoh S, et al. **PACE** 1990 Apr;13(4):469–79

Electrocardiographic pattern of typhoid fever in children. Pelupessy JM, et al. **Paediatr Indones** 1989 Sep-Oct; 29(9-10):215–20

Persistence of atrioventricular valve regurgitation and electrocardiographic abnormalities following transient myocardial ischemia of the newborn. Turner-Gomes SO, et al. **Pediatr Cardiol** 1989 Fall;10(4):191–4

Electrocardiographic monitoring in children with chronic renal failure. Bosch A, et al. **Pediatr Nephrol** 1990 Mar; 4(2):140–4

Chronic exposure to carbon monoxide at high altitude: effects on mean electrical axis. Cooper R, et al. **Physiol Behav** 1989 Jul;46(1):75–9

The effect of ethanol on arterial blood pressure, central venous pressure and ECG in rabbits treated with the single or multiple dose of amitriptyline or imipramine. Polakowski P, et al. **Pol J Pharmacol Pharm** 1989 May-Jun; 41(3):247–51

The diagnostic accuracy of the exercise electrocardiogram: a meta-analysis of 22 years of research. Detrano R, et al. **Prog Cardiovasc Dis** 1989 Nov-Dec;32(3):173–206

Safety of maprotiline in treatment of cardiac patients with left anterior hemiblock. Ghadirian AM, et al. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):476–7

Reversible EKG changes in anorexia nervosa. Hoffman RS, et al. **Psychiatr Med** 1989;7(4):211–6

Effects of beta-adrenergic activity on T-wave amplitude. Contrada RJ, et al. **Psychophysiology** 1989 Jul;26(4):488–92

Reciprocal ST segment changes in acute myocardial infarction; informative or incidental? [comment] Forfar JC. **Q J Med** 1989 Sep;72(269):763–5 Comment on: Q J Med 1989 Sep;72(269):849–55.

The diagnostic significance of reciprocal ST segment depression in acute myocardial infarction [see comments] Yousif H, et al. **Q J Med** 1989 Sep;72(269):849–55 Comment in: Q J Med 1989 Sep;72(269):763–5.

Prevention of electrocardiographic and histopathologic alterations in the murine model of Chagas' disease by preinoculation of an attenuated Trypanosoma cruzi strain. Cuneo CA, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jul-Aug;31(4):248–55

Continuous electrocardiographic monitoring during balloon dilatation in achalasia. Sorohan A, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jan-Mar;93(1):71–2

Correlation between QRS score system and peak creatine kinase for estimating myocardial infarct size in inferior infarction. Suárez-Rodriguez CN, et al. **Rev Port Cardiol** 1988 Sep-Oct;7(5):473–7

Assessment of left ventricular hypertrophy by electrocardiography, chest roentgenography and echocardiography, a review. Kristensen BO. **Scand J Clin Lab Invest Suppl** 1989;196:42–7 (5 ref.)

Electrocardiographic abnormalities after a transient ischemic attack. Crosby DL. **South Med J** 1990 Feb;83(2):256–7

Review of human phase III. Study of Nitromint spray. Szegö J. **Ther Hung** 1989;37(3):165–7

The value of the electrocardiogram in the diagnosis of acute rejection after orthotopic heart transplantation. Locke TJ, et al. **Transpl Int** 1989 Oct;2(3):143–6

Electrocardiographic abnormalities in patients with myotonic dystrophy. Florek RC, et al. **West J Med** 1990 Jul; 153(1):24–7 (26 ref.)

Misdiagnosing ventricular tachycardia in patients with underlying conduction disease and similar sinus and tachycardia morphologies. Halperin BD, et al. **West J Med** 1990 Jun;152(6):677–82

Long-term prognosis of patients with silent ischemia, symptomatic ischemia and without ischemia after acute myocardial infarction. Pollak H, et al. **Wien Klin Wochenschr** 1989 Sep 15;101(17):583–7

Hyperkalemic electromechanical dissociation. Lawton JM. **Wis Med J** 1990 Aug;89(8):459–61

Nitrates in acute myocardial infarction—state of the art. Jugdutt BI. **Z Kardiol** 1989;78 Suppl 2:118–21; discussion 142–4

[Relation of ECG and left ventricular parameters in hypertensive patients] Cao ZM. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Jun; 17(3):162–4 (Chi)

[Observations on the effect of exercise, propranolol and atropine on Q-T interval and QTa under esophageal atrial pacing] Chang XM. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Aug; 17(4):229–31 (Chi)

[Diagnosing old posterior myocardial infarct by surface potential mapping] Cui C. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1990 Feb; 18(1):28–30 (Chi)

[Plasma CK-MB activity and QRS score in estimating acute myocardial infarct size] Luo ZM, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):279–82, 318 (Eng. Abstr.) (Chi)

[A correlative study of ECG and coronary arteriogram findings after acute myocardial infarction] Shen WF, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Oct; 17(5):268–7, 317 (Eng. Abstr.) (Chi)

[A long-term follow-up of acute non-Q-wave myocardial infarction with clinicopathologic correlation] Wang JH, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Dec;28(12):706–7, 766 (Eng. Abstr.) (Chi)

[Cardiotoxicity of antipsychotic drugs: abnormal ECG in 1266 cases] Song SY. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):77–9, 125 (Eng. Abstr.) (Chi)

[A case-control study on electrocardiographic abnormalities and hypertension in long-term survivors of cerebrovascular disease] Wang KJ. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):104–7, 127 (Eng. Abstr.) (Chi)

[Precordial mapping of the R wave in the diagnosis of rejection after orthotopic heart transplantation] Janota M, et al. **Cas Lek Cesk** 1990 Jan 19;129(3):76–80 (Eng. Abstr.) (Cze)

[Disappearance of the Q wave in patients with early reperfusion of an infarcted artery] Staněk V, et al. **Cesk Fysiol** 1990;39(1):83–7 (Cze)

[Extracellular and intracellular electrogram of the heart at the site of suction electrodes in frogs] Stojan M, et al. **Sb Lek** 1990 Apr;92(4):110–7 (Eng. Abstr.) (Cze)

[Clinical significance of intracardiac electrocardiography in the diagnosis of syncope] Chytil V. **Vnitr Lek** 1990 Feb; 36(2):113–20 (Eng. Abstr.) (Cze)

[ECG abnormalities in the MONICA Gent-Charleroi study population] De Backer G. **Arch Belg** 1989;47(1-4):73–6 (Eng. Abstr.) (Dut)

[It is the tune which provides the diagnosis] Meijler FL, et al. **Ned Tijdschr Geneeskd** 1989 Nov 25;133(47):2313–5 (Dut)

[Pathophysiology of myocardial infarction] Heikkilä J. **Duodecim** 1990;106(1):11–22 (67 ref.) (Fin)

[Correlation of the results of high-amplification ECG and the cycle of induced ventricular tachycardia. Prognostic value] Brembilla-Perrot B, et al. **Ann Cardiol Angeiol (Paris)** 1990 May;39(5):269–73 (Eng.

Abstr.) (Fre)
[Mean high-amplification electrocardiogram during a submaximal exercise test following acute myocardial infarction] Debels M, et al. **Ann Cardiol Angeiol (Paris)** 1990 May;39(5):259–63 (Eng. Abstr.) (Fre)
[Description of electrocardiographic data in children and adolescents (letter)] Husson J, et al. **Ann Cardiol Angeiol (Paris)** 1989 Nov;38(9):561–2 (Fre)
[Late potentials and arrhythmogenic right ventricular dysplasia] Leclercq JF, et al. **Ann Cardiol Angeiol (Paris)** 1990 May;39(5):281–5 (Eng. Abstr.) (Fre)
[The origin of late potentials in patients with ventricular tachycardia after myocardial infarction] Savard P, et al. **Ann Cardiol Angeiol (Paris)** 1990 May;39(5):275–9 (Eng. Abstr.) (Fre)
[The preoperative EKG correctly interpreted by the anesthesiologist?] Deffarges C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R37 (Fre)
[Effect of complete bundle-branch block on the averaged signal of high amplification electrocardiogram] Brembilla-Perrot B, et al. **Arch Mal Coeur** 1990 Jun; 83(7):907–12 (Eng. Abstr.) (Fre)
[Contribution of Doppler echocardiography and thallium in cases of major ST segment depression in athletes] Labbe T, et al. **Arch Mal Coeur** 1989 Aug;82 Spec No 2:63–71 (Eng. Abstr.) (Fre)
[Value of negative U waves in coronary artery spasm] Lablanche JM, et al. **Arch Mal Coeur** 1990 Feb; 83(2):199–203 (Eng. Abstr.) (Fre)
[Fetal telemonitoring] Uzan S, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989;18(7):871–8 (Eng. Abstr.) (Fre)
[The electrical activity of the heart during pregnancy] Louhanana G. **Rev Fr Gynecol Obstet** 1990 Jun; 85(6):369–74 (Eng. Abstr.) (Fre)
[The risks of bronchoscopy in coronary patients] Dombret MC, et al. **Rev Mal Respir** 1990;7(4):313–7 (Eng. Abstr.) (Fre)
[What is your diagnosis? Extrasystole] MAHAIM C. **Schweiz Rundsch Med Prax** 1990 Jan 16;79(3):29–30 (Fre)
[What is your diagnosis?] MAHAIM C. **Schweiz Rundsch Med Prax** 1989 Dec 19;78(51):1423–4 (Fre)
[What is your diagnosis?] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Dec 12;78(50):1391–2 (Fre)
[What is your diagnosis?] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Oct 31;78(44):1207–8 (Fre)
[What is your diagnosis? Exertion-induced ventricular tachycardia] Mahaim C. **Schweiz Rundsch Med Prax** 1990 Feb 20;79(8):189–90 (Fre)
[What is your diagnosis?] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Oct 17;78(42):1145–6 (Fre)
[What is your diagnosis?] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Oct 3;78(40):1083–4 (Fre)
[What is your diagnosis?] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Nov 21;78(47):1303–4 (Fre)
[What is your diagnosis? Left posterior hemiblock] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Sep 26;78(39):1055–6 (Fre)
[What is your diagnosis?] Mahaim C. **Schweiz Rundsch Med Prax** 1989 Dec 27;78(52):1449–50 (Fre)
[Intermittent claudication, myocardial ischemia and walking distance on an even surface] Monti M. **Vasa Suppl** 1989; 27:259–61 (Fre)
[ECG-controlled placement of central venous catheters in patients with atrial fibrillation] Engelhardt W, et al. **Anaesthesist** 1989 Sep;38(9):476–9 (Eng. Abstr.) (Ger)
[Monitoring in anesthesiology—effects of isoflurane on electrophysiologic values] Litscher G, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:103–4 (Ger)
[Acute isolated ischemia of the right ventricle with ST elevation in V1 to V4] Gansser R, et al. **Dtsch Med Wochenschr** 1990 Mar 9;115(10):378–81 (Eng. Abstr.) (Ger)
[Chronic ventricular aneurysm. The sensitivity and specificity of persistent ST-T elevations on the electrocardiogram] Stierle U, et al. **Dtsch Med Wochenschr** 1990 Mar 2; 115(9):323–7 (Eng. Abstr.) (Ger)
[Cardiac tachyarrhythmia—when should it be treated?] Lüderitz B. **Fortschr Med** 1989 Sep 20;107(27):18 (Ger)
[Non-Q-wave infarct: no reason for reassurance] Michel D. **Fortschr Med** 1990 May 30;108(16):313 (Ger)
[Catheter ablation in ventricular tachycardia] Borggrefe M, et al. **Herz** 1990 Apr;15(2):103–10 (Eng. Abstr.) (Ger)
[Anti-tachycardia surgery in ventricular arrhythmia] Ostermeyer J, et al. **Herz** 1990 Apr;15(2):126–38 (39 ref.) (Eng. Abstr.) (Ger)
[Prolongation of the QT interval in the ECG following surgery of the neck (neck dissection)] Behne M, et al. **HNO** 1989 Nov;37(11):449–53 (Eng. Abstr.) (Ger)
[Clinical significance and treatment of cardiac arrhythmia in children] von Bernuth G. **Klin Padiatr** 1990 Jan-Feb; 202(1):1–11 (29 ref.) (Eng. Abstr.) (Ger)
[Incidence of intravenous thrombolytic therapy and fatalities in patients with acute transmural myocardial infarct (Q infarct). A study of observations from 1984 to 1987] Alt B, et al. **Med Klin** 1989 Oct 15;84(10):465–8 (Eng. Abstr.) (Ger)
[What is your diagnosis? Thioridazine poisoning] EKG. **Schweiz Rundsch Med Prax** 1989 Nov 28;78(48):1333–4 (Ger)
[What is your diagnosis? Grade III AV block] Hoffmann A. **Schweiz Rundsch Med Prax** 1990 Aug 14;79(33):935–6 (Ger)
[What is your diagnosis?] Hoffmann A. **Schweiz Rundsch Med Prax** 1990 Aug 2;79(31–32):905–6 (Ger)
[What is your diagnosis? Situs indersus totalis] Meili-Bühler U. **Schweiz Rundsch Med Prax** 1989 Aug 2; 78(31–32):829–30 (Ger)
[What is your diagnosis? Congenital QT syndrome] Zuber M. **Schweiz Rundsch Med Prax** 1989 Oct 24;78(43):1177–8 (Ger)
[Embolectomy in fulminant lung embolism and persistent electromechanical uncoupling—a case report and review of the literature] Peters S, et al. **Vasa** 1990;19(1):59–62 (Eng. Abstr.) (Ger)
[Indications for cardiac pacemaker implantation] Büchner C, et al. **Verh Dtsch Ges Inn Med** 1989;95:112–9 (15 ref.) (Ger)
[ECG and roentgen image of the thorax—obligatory measures in every internal examination?] Conen D. **Verh Dtsch Ges Inn Med** 1989;95:142–7 (21 ref.) (Ger)
[Control of cardiac pacemakers. Where, when and how?] Sigmund M. **Verh Dtsch Ges Inn Med** 1989;95:129–34 (Ger)
[The value of stress tests in arterial hypertension] Purfürst WD, et al. **Z Arztl Fortbild (Jena)** 1990;84(10):481–6 (36 ref.) (Ger)
[Expert assessment of patients with cardiac arrhythmia] Wunderlich E, et al. **Z Arztl Fortbild (Jena)** 1990; 84(3):109–12 (10 ref.) (Ger)
[Biological VA cross talk in an AAJ pacemaker] Burck G, et al. **Z Gesamte Inn Med** 1989 Aug 1;44(15):466–7 (Eng. Abstr.) (Ger)
[Ventricular late potentials in patients with cardiomyopathies in relation to electrophysiologic and myocardial biopsy findings] Heinke M, et al. **Z Gesamte Inn Med** 1989 Aug 15;44(16):487–91 (Eng. Abstr.) (Ger)
[The effect of pharmacologic therapy of hyperthyroidism on automatic heart conduction] Jonderko G, et al. **Z Gesamte Inn Med** 1989 Sep 1;44(17):524–7 (Eng. Abstr.) (Ger)
[Site and type of acute myocardial infarct in relation to myocardial infarct size—dynamics of global ejection fraction in acute myocardial infarct] Kothe K, et al. **Z Gesamte Inn Med** 1990 Mar 1;45(5):146–8 (Eng. Abstr.) (Ger)
[Localization and type of acute myocardial infarct in relation to myocardial infarct size—patients with acute re-infarct] Kothe K, et al. **Z Gesamte Inn Med** 1990 Apr 1; 45(7):188–90 (Eng. Abstr.) (Ger)
[Indication of myocardial "memory". Gradual, persisting modulation of myocardial decrease in excitation following change in the activation sequence] Costard-Jäckle A, et al. **Z Kardiol** 1989 Dec;78(12):797–803 (Eng. Abstr.) (Ger)
[Electrophysiologic properties of cibenzoline in Wolff-Parkinson-White syndrome and atrioventricular nodal reentry tachycardia] Kühlkamp V, et al. **Z Kardiol** 1989 Oct;78(10):640–6 (Eng. Abstr.) (Ger)
[Differential therapy of myocardial ischemia in females] Neumann E, et al. **Z Kardiol** 1989;78 Suppl 2:109–11; discussion 115–7 (Eng. Abstr.) (Ger)
[Cibenzoline: electrophysiologic effects of a new class I anti-arrhythmia agents in supraventricular tachycardia] Pfitzner P, et al. **Z Kardiol** 1989 Oct;78(10):654–60 (Eng. Abstr.) (Ger)
[Non-Q wave and Q wave myocardial infarct: correlation with regional myocardial perfusion, wall function and prognosis within 1 year] Salge D, et al. **Z Kardiol** 1990 Apr;79(4):261–7 (Eng. Abstr.) (Ger)
[Long-term effect of organic nitrates in angina pectoris: dependence on the form of administration and mode of stress] Schneider W, et al. **Z Kardiol** 1989;78 Suppl 2:83–7; discussion 115–7 (Eng. Abstr.) (Ger)
[Continuous ventricular tachyarrhythmia in patients without detectable organic heart disease: clinical and electrophysiologic findings] Schöls W, et al. **Z Kardiol** 1989 Dec;78(12):790–6 (Eng. Abstr.) (Ger)
[Prerequisites for pacemaker electrodes for individual programming of a low stimulation impulse (comparison of an Elgiloy and a steroid-dependent pacemaker electrode)] Schuchert A, et al. **Z Kardiol** 1990 Jun;79(6):403–7 (Eng. Abstr.) (Ger)
[Infarct ECG following a lightning accident] Schwab M, et al. **Z Kardiol** 1989 Sep;78(9):611–4 (Eng. Abstr.) (Ger)
[Behavior of ventricular late potentials following catheter ablation of ventricular tachycardia] Seifert T, et al. **Z Kardiol** 1989 Oct;78(10):647–53 (Eng. Abstr.) (Ger)
[Effect of glycerol trinitrate on R-amplitude in patients with chronic ischemic heart disease] Teichmann W. **Z Kardiol** 1989;78 Suppl 2:112–4; discussion 115–7 (Eng. Abstr.) (Ger)
[The significance of ventricular tachycardia morphology for prognosis and follow-up] Trappe HJ, et al. **Z Kardiol** 1989 Oct;78(10):633–9 (Eng. Abstr.) (Ger)
[Combination therapy with isosorbide dinitrate and verapamil in patients with coronary heart disease and hypertension: effect on blood pressure, ischemia and left ventricular function] Vogler AC, et al. **Z Kardiol** 1989;78 Suppl 2:183–7; discussion 188–9 (Eng. Abstr.) (Ger)
[ECG changes caused by the effect of static magnetic fields of nuclear magnetic resonance tomography using magnets with a field power of 0.5 to 4.0 Telsa] Weikl A, et al. **Z Kardiol** 1989 Sep;78(9):578–86 (Eng. Abstr.) (Ger)
[Age-related peculiarities of regulating heart rhythm in dose-adjusted physical stress] Korkushko OV, et al. **ZFA** 1989 Nov-Dec;44(6):341–4 (Eng. Abstr.) (Ger)
[Electrocardiographic findings in patients with mitral valve prolapse] Drory Y, et al. **Harefuah** 1990 Mar 1; 118(5):289–91 (44 ref.) (Heb)
[ECG Corner] Eldar M. **Harefuah** 1990 Apr 15;118(8):495 (Heb)
[Introduction to electrocardiographic surface recordings of late cardiac potentials] Perry D, et al. **Harefuah** 1990 Jun 15;118(12):707–11 (47 ref.) (Heb)
[Septal Q wave responses to exertion in the diagnosis of proximal stenosis of the anterior descending coronary artery] Csanádi Z, et al. **Orv Hetil** 1990 Jun 24; 131(25):1357–8, 1361–2 (Eng. Abstr.) (Hun)
[The normal right-side electrocardiogram] Szász K, et al. **Orv Hetil** 1990 Feb 11;131(6):291–4 (Eng. Abstr.) (Hun)
[Changes in R wave voltage during exercise: are they a sign of changes in ventricular volume or of myocardial ischemia?] Ciavolella M, et al. **Cardiologia** 1990 Jan; 35(1):33–40 (Eng. Abstr.) (Ita)
[Validity of some electrocardiographic criteria in left ventricular hypertrophy] Pannarale G, et al. **Cardiologia** 1989 Jun;34(6):559–62 (Eng. Abstr.) (Ita)
[Electrophysiologic significance of the electric alternans in supraventricular tachycardia] Pulignano G, et al. **Cardiologia** 1989 Aug;34(8):707–11 (Eng. Abstr.) (Ita)
[Diagnosis of delayed upper left ventricular activation: limits of electrocardiography and usefulness of vectorcardiography] Tedesco MA, et al. **Cardiologia** 1989 Nov;34(11):935–8 (Eng. Abstr.) (Ita)
[Electrocardiographic disorders in diverse clinical variations of scleroderma] Targa L, et al. **G Clin Med** 1990 Jan; 71(1):17–24 (34 ref.) (Eng. Abstr.) (Ita)
[Anatomo-functional correlations of changes in electrocardiographic repolarization in aortic and mitral valve insufficiency. Comparison of indices based on QRS voltages] Badano L, et al. **G Ital Cardiol** 1989 Jun; 19(6):483–90 (Eng. Abstr.) (Ita)
[Qualitative and quantitative evaluation of the electrocardiographic stress test] Bosimini E, et al. **G Ital Cardiol** 1989 Jun;19(6):528–31 (22 ref.) (Ita)
[ST-T segment alternans in ventricular tachycardia associated with inversion of the U wave in Prinzmetal angina during exercise test. Description of a clinical case] Calabrese G, et al. **G Ital Cardiol** 1990 Mar;20(3):239–41 (Eng. Abstr.) (Ita)
[Diagnosis of left ventricular hypertrophy in hypertensive patients: echocardiographic and electrocardiographic approach] De Piccoli B, et al. **G Ital Cardiol** 1990 Apr; 20(4):341–6 (44 ref.) (Ita)
[Some recent proposals in bioengineering and medical informatics for cardiology] Mutinelli M. **G Ital Cardiol** 1989 Jul;19(7):645–7 (Ita)
[A-V conduction in atrial flutter. Electrocardiographic study] Oreto G, et al. **G Ital Cardiol** 1989 Dec; 19(12):1105–14 (Eng. Abstr.) (Ita)
[Correlation between Selvester's QRS score and left ventricular function at rest and during effort in patients who survived myocardial infarction] Riccardi G, et al. **G Ital Cardiol** 1989 Nov;19(11):1015–23 (Eng. Abstr.) (Ita)
[Integration of the hospital coronary care unit with the first aid service for the domiciliary treatment of cardiovascular emergencies] Rossi P, et al. **G Ital Cardiol** 1989 Aug; 19(8):694–700 (Eng. Abstr.) (Ita)
[The dipyridamole-echo-ECG test in hypertensives with microvascular angina] Lucarini AR, et al. **Medicina (Firenze)** 1989 Apr-Jun;9(2):175–7 (Eng. Abstr.) (Ita)
[ST segment elevation after elective electric cardioversion] Cassin M, et al. **Minerva Cardioangiol** 1989 Oct; 37(10):451–6 (Eng. Abstr.) (Ita)
[Increase in blood potassium and subsequent normalization: effects on the electrocardiogram. Case report] Cecchetti G, et al. **Minerva Cardioangiol** 1989 Sep;37(9):399–403 (Eng. Abstr.) (Ita)
[Validity of electrocardiographic indices of left ventricular hypertrophy in athletes] Cottini E, et al. **Minerva Cardioangiol** 1989 Sep;37(9):379–84 (Eng. Abstr.) (Ita)
[Incidence and prognostic significance of anterior precordial ST segment depression in acute inferior myocardial infarct] Curione M, et al. **Minerva Cardioangiol** 1989 Oct; 37(10):417–22 (Eng. Abstr.) (Ita)
[The diagnostic value of delta-R and delta-Q as positive criteria of the ergometry test in a group of patients with angina pectoris of effort] Doria G, et al. **Minerva Cardioangiol** 1989 Nov;37(11):469–72 (Eng. Abstr.) (Ita)
[Diagnostic value of Q wave changes during the exercise test. Review of the literature and personal experience]

Facchin D, et al. **Minerva Cardioangiol** 1989 Jun; 37(6):273–9 (36 ref.) (Eng. Abstr.) (Ita)

["Myocardial bridge" and "intramural LAD pathway" are not just a semantic problem] Lisanti P, et al. **Minerva Cardioangiol** 1989 Sep;37(9):389–93 (Eng. Abstr.) (Ita)

[Possible pro–arrhythmic effects of vagal stimulation maneuvers] Vitali A, et al. **Minerva Cardioangiol** 1989 Sep; 37(9):385–8 (Eng. Abstr.) (Ita)

[Correlative evaluation of electrocardiographic changes and spirometric parameters in pulmonary cardiopathy secondary to chronic obstructive bronchopneumopathy] Caruso G, et al. **Recenti Prog Med** 1989 Sep;80(9):468–70 (Eng. Abstr.) (Ita)

[Hypopotassemia and prolongation of the Q–T interval in a patient with severe malnutrition caused by bulimia and post–prandial vomiting] Contaldo F, et al. **Recenti Prog Med** 1990 Apr;81(4):266–8 (Eng. Abstr.) (Ita)

[Depression of the ST segment : pending problems (letter)] Morace G, et al. **Recenti Prog Med** 1990 Apr;81(4):299–300 (Ita)

[Disturbance of the autonomic nerve system in patients with chronic renal failure—represented by variation coefficient of R–R intervals in the ECG as a parameter] Oda K, et al. **Fukuoka Igaku Zasshi** 1990 Feb;81(2):71–6 (Eng. Abstr.) (Jpn)

[Measurement of coefficient of variation of R–R interval in ECG for patients with impotence] Takasaki N, et al. **Hinyokika Kiyo** 1989 Aug;35(8):1361–4 (Eng. Abstr.) (Jpn)

[A study on the pattern of myocardial distribution and its relationship to the genesis of giant negative T wave in patients with hypertrophic cardiomyopathy] Anzai T. **Hokkaido Igaku Zasshi** 1990 Mar;65(2):170–7 (Eng. Abstr.) (Jpn)

[Clinical significance of prominent negative T waves induced by exercise test] Chikamori T, et al. **J Cardiol** 1989 Sep; 19(3):741–8 (Eng. Abstr.) (Jpn)

[Regional left ventricular diastolic function in hypertrophic cardiomyopathy: application of "sector analysis" to ECG forward and reverse gated radionuclide ventriculography] Ishida Y, et al. **J Cardiol** 1989 Jun;19(2):473–85 (Eng. Abstr.) (Jpn)

[Exercise–induced precordial ST depression in patients with prior inferior myocardial infarction with single vessel disease] Kataoka H, et al. **J Cardiol** 1989 Mar;19(1):57–66 (Eng. Abstr.) (Jpn)

[Accuracy of the Master's exercise test in detecting significant coronary artery disease] Kuzume O, et al. **J Cardiol** 1988 Dec;18(4):967–77 (Eng. Abstr.) (Jpn)

[Coronary angiography in patients with U wave inversion during coronary artery spasm] Masuda T, et al. **J Cardiol** 1989 Sep;19(3):757–64 (Eng. Abstr.) (Jpn)

[Electrocardiograms during acute occlusion of the left circumflex artery as compared with that of the right coronary artery] Morimoto S, et al. **J Cardiol** 1989 Mar; 19(1):47–55 (Eng. Abstr.) (Jpn)

[Clinical significance of electrocardiographic P–terminal force in V1 in patients with hypertrophic cardiomyopathy] Nezuo S, et al. **J Cardiol** 1988 Dec;18(4):1061–7 (Eng. Abstr.) (Jpn)

[Precordial ST segment depression in acute inferior myocardial infarction: the importance of posterolateral wall infarction] Nishian K, et al. **J Cardiol** 1989 Jun;19(2):413–24 (Eng. Abstr.) (Jpn)

[Electrocardiographic changes and arrhythmias in the elderly] Yamaguchi I, et al. **J Cardiol Suppl** 1988;19:49–57 (Eng. Abstr.) (Jpn)

[Clinical significance of exercise induced ST segment depression after successful percutaneous transluminal coronary angioplasty—assessment by thallium–201 SPECT] Aoki T, et al. **Kaku Igaku** 1989 Jun;26(6):733–41 (Eng. Abstr.) (Jpn)

[Comparison of thallium perfusion and electrocardiographic findings at exercise thallium–201 scintigraphy with coronary arteriographic findings] Matsuo T, et al. **Kaku Igaku** 1989 Jun;26(6):763–71 (Eng. Abstr.) (Jpn)

[Electrocardiographic signs possibly related to myocardial viability in patients with old myocardial infarction] Fu T. **Kokyu To Junkan** 1990 Mar;38(3):209–15 (Jpn)

[Torsade de pointes] Hiejima K, et al. **Kokyu To Junkan** 1989 Aug;37(8):865–71 (Jpn)

[A case of effusive–constrictive epicarditis found by electrocardiogram at a school health examination] Horigome H, et al. **Kokyu To Junkan** 1989 Dec; 37(12):1347–51 (Eng. Abstr.) (Jpn)

[Transient abnormal Q waves under acute myocardial infarction in patients with pneumoconiosis] Iizuka K, et al. **Kokyu To Junkan** 1990 Mar;38(3):253–6 (Eng. Abstr.) (Jpn)

[Significance of inferior ST segment changes in acute anterior myocardial infarction—relationship between the distribution of left anterior descending artery and concomitant ischemia of the inferior wall] Miki H, et al. **Kokyu To Junkan** 1990 Jul;38(7):687–92 (Eng. Abstr.) (Jpn)

[Association of various cardiac parameters and signal–averaged electrocardiographic late potentials in patients with myocardial infarction] Miura M, et al. **Kokyu To Junkan** 1989 Jul;37(7):765–71 (Eng. Abstr.) (Jpn)

[Prediction of coronary artery disease using post exercise T wave change] Okada M, et al. **Kokyu To Junkan** 1989 Aug;37(8):895–901 (Eng. Abstr.) (Jpn)

[Left ventricular function in patient with diabetes mellitus—Evaluated by mechanocardiogram and echocardiogram] Okamoto Y, et al. **Kokyu To Junkan** 1989 Dec;37(12):1327–31 (Eng. Abstr.) (Jpn)

[A case of marked exercise–induced ST segment depression in anterior precordial leads with inferoposterior left ventricular aneurysm and significant stenosis of left anterior descending artery] Sakomura Y, et al. **Kokyu To Junkan** 1989 Jul;37(7):797–801 (Eng. Abstr.) (Jpn)

[Significance of right precordial ST elevation in experimental right ventricular infarction] Sanada T, et al. **Kokyu To Junkan** 1989 Sep;37(9):991–5 (Eng. Abstr.) (Jpn)

[The clinical significance of exercise–induced ST segment elevation in patients with previous myocardial infarction] Tamaki A. **Kokyu To Junkan** 1990 May;38(5):477–82 (Eng. Abstr.) (Jpn)

[Changes in the ECG and myocardial blood flow of the right and left ventricular walls under acute pulmonary arterial stenosis] Yoshida H, et al. **Kokyu To Junkan** 1990 Apr; 38(4):367–74 (Eng. Abstr.) (Jpn)

[The autonomic nervous activities in man under thoracic epidural anesthesia assessed by heart rate fluctuation analysis] Shimoda O, et al. **Masui** 1989 Dec;38(12):1561–6 (Eng. Abstr.) (Jpn)

[Three cases with electrocardiographic changes suggesting myocardial infarction] Takanami C, et al. **Masui** 1990 Jan; 39(1):93–8 (Eng. Abstr.) (Jpn)

[Clinical evaluation of Tl–201 ECG–gated myocardial SPECT—comparison with ECG–gated blood pool SPECT] Mochizuki T. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Dec 25; 49(12):1567–72 (Eng. Abstr.) (Jpn)

[A case of pheochromocytoma with an AMI–like ECG change corrected by an alpha–blocking agent] Hirata M, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Jan 20;66(1):1–8 (Eng. Abstr.) (Jpn)

[A case of angina pectoris without ischemic changes on the standard 12–lead electrocardiogram during attacks] Kebukawa K, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul; 78(7):976–7 (Jpn)

[T wave sensing problems with rate responsive pacemaker using Q–T interval and clinical experience] Kodama Y, et al. **Nippon Rinsho** 1990 Feb;48(2):380–5 (Jpn)

[Arrhythmia in patients with cerebral infarction evaluated by Holter ECG] Akashi N. **Nippon Ronen Igakkai Zasshi** 1989 Mar;26(2):153–9 (Eng. Abstr.) (Jpn)

[Sequential changes in blood pressure and electrocardiographic findings over seventeen years in three different regions in Okayama Prefecture] Haraoka S, et al. **Nippon Ronen Igakkai Zasshi** 1989 Jul;26(4):375–86 (Eng. Abstr.) (Jpn)

[Long–term follow–up of the f wave amplitude in chronic atrial fibrillation] Saitho H, et al. **Nippon Ronen Igakkai Zasshi** 1989 Sep;26(5):489–93 (Eng. Abstr.) (Jpn)

[General practitioners and ECG] Fortun B. **Tidsskr Nor Laegeforen** 1989 Oct 10;109(28):2915 (Nor)

[Early exercise test after myocardial infarction. Our experience— results of the examinations of 102 patients] Bednarz B, et al. **Kardiol Pol** 1989;32(4):207–15 (Eng. Abstr.) (Pol)

[Value of Holter monitoring and the electrocardiographic exercise test in the diagnosis of silent ischemia after myocardial infarction] Dąbrowski A, et al. **Kardiol Pol** 1989;32(10–12):427–33 (Eng. Abstr.) (Pol)

[Effects of isometric exercise on left ventricular function assessed with polycardiography in patients with early type I diabetes] Rynkiewicz A, et al. **Kardiol Pol** 1989; 32(10–12):446–52 (Eng. Abstr.) (Pol)

[Suggestive characteristics of inferior wall heart infarct in the EKG of patients with chronic cor pulmonale] Lewczuk J. **Pneumonol Pol** 1989 Jun;57(6):373–6 (Eng. Abstr.) (Pol)

[Equilibrium radionuclide angiography in patients with previous myocardial infarct. Correlation with electrocardiogram and coronarography] Macieira–Coelho E, et al. **Acta Med Port** 1990 Mar–Apr;3(2):81–4 (Eng. Abstr.) (Por)

[Silent myocardial ischemia. Experience with ambulatory electrocardiographic monitoring] Azevedo A de C, et al. **Arq Bras Cardiol** 1989 Jan;52(1):5–12 (Eng. Abstr.) (Por)

[The value of the electrocardiogram in evaluating myocardial function in patients with Chagas' disease] Barretto AC, et al. **Arq Bras Cardiol** 1989 Feb;52(2):69–73 (Eng. Abstr.) (Por)

[Unstable angina, Prinzmetal's variant and transient Q waves. Report of a case] Benchimol AB, et al. **Arq Bras Cardiol** 1989 Mar;52(3):141–4 (Eng. Abstr.) (Por)

[Electrocardiographic changes in pancreatitis] Faintuch JJ, et al. **Arq Bras Cardiol** 1989 May;52(5):259–60 (Eng. Abstr.) (Por)

[Myocarditis simulating acute myocardial infarction. A case report] Jacob JL, et al. **Arq Bras Cardiol** 1989 May; 52(5):279–81 (Eng. Abstr.) (Por)

[Fascicular block of the His bundle: critical approach for its identification] Luna Filho B, et al. **Arq Bras Cardiol** 1989 Nov;53(5):261–5 (Eng. Abstr.) (Por)

[Electrocardiogram in dilated cardiomyopathy] Barbosa Filho J, et al. **Rev Port Cardiol** 1989 Nov;8(11):769–74 (Eng. Abstr.) (Por)

[Clinical methods of evaluating infarct size and its anatomic correlations. Study carried out in 193 cases. I. Evaluation of infarct size using a QRS score. Electro–anatomic correlations] Martins C, et al. **Rev Port Cardiol** 1988 Jul–Aug;7(4):401–8 (Eng. Abstr.) (Por)

[Clinical methods for evaluating infarct size and its anatomic correlations. Study carried out in 193 cases. III. Comparison of data on the evaluation of the infarct size using the QRS score and a method of maximal creatine kinase determination in the serum] Perdigão C, et al. **Rev Port Cardiol** 1989 Oct;8(10):705–8 (Eng. Abstr.) (Por)

[Electrocardiographic and arterial pressure changes in the acute phase of subarachnoid hemorrhage] Popescu M, et al. **Rev Med Interna [Med Interna]** 1989 Sep–Oct; 41(5):459–66 (Eng. Abstr.) (Rum)

[Fluctuation of energy of spectral components of the EEG signal during dying, clinical death and early period of resuscitation] Ivanov GG, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):531–3 (Eng. Abstr.) (Rus)

[Modelling of ventricular tachycardia against a background of an elongated Q–T interval] Shvetsov IM, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):647–9 (Eng. Abstr.) (Rus)

[The ECG in dilated cardiomyopathy with different degrees of the manifestation of cardiosclerosis] Gadzhaeva FU, et al. **Biull Vsesoiuznogo Kardiol Nauchn Tsentra AMN SSSR** 1989;12(2):81–8 (Eng. Abstr.) (Rus)

[Effect of emotional stress on electrocardiogram parameters and diuresis in persons with different levels of arterial pressure] Kruchinina NA, et al. **Fiziol Cheloveka** 1989 May–Jun;15(3):745–50 (Rus)

[The process of heart ventricle depolarization and the formation of an electrocardiographic QRS complex in the frog] Shmakov DN, et al. **Fiziol Zh SSSR** 1989 Aug; 75(8):1116–20 (Eng. Abstr.) (Rus)

[Evaluation of automatic function of the sinus node] Babin AV. **Kardiologiia** 1990 May;30(5):124–6 (Rus)

[Vector electrocardiographic features in patients with hypertrophic cardiomyopathy] Gadzhaeva FU, et al. **Kardiologiia** 1989 Nov;29(11):120–4 (Eng. Abstr.) (Rus)

[Electrocardiographic loading tests in persons with various ECG changes (findings of epidemiological studies)] Nikitin IuP, et al. **Kardiologiia** 1989 Dec;29(12):77–81 (Eng. Abstr.) (Rus)

[Characteristics of the U wave on the electrocardiogram of patients with diabetes mellitus type 1 without clinical signs of cardiac damage] Valtkus EA, et al. **Kardiologiia** 1990 Mar;30(3):68–71 (Eng. Abstr.) (Rus)

[Equipment and possibilities of dynamic monitoring of arrhythmia during permanent electrocardiostimulation] Aksenov DS, et al. **Med Tekh** 1990 May–Jun;(3):9–11 (Eng. Abstr.) (Rus)

[Algorithm of automatization in processing of interference–suppressing detection of the ECG signal] Kozlov II, et al. **Med Tekh** 1989 Nov–Dec;(6):26–32 (Eng. Abstr.) (Rus)

[Rhythmocardioscope RKS–02] Smirnov AV, et al. **Med Tekh** 1990 May–Jun;(3):41–3 (Rus)

[Providing automated analysis of cardiac rhythm] Tsevetovskil SB, et al. **Med Tekh** 1989 Nov–Dec;(6):33–7 (Eng. Abstr.) (Rus)

[Autonomic innervation in newborn infants according to interval cardiography] Kravtsov Iul, et al. **Pediatriia** 1990; (4):41–5 (Eng. Abstr.) (Rus)

[Changes in the ECG in the surgical treatment of patients with tumors of the maxillofacial area] Donchenko EV, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):51–3 (Eng. Abstr.) (Rus)

[An evaluation of left ventricular myocardial function by x–ray and electrocardiographic data in patients with postinfarct cardiosclerosis] Tsallagova ZS, et al. **Ter Arkh** 1990;62(4):29–32 (Eng. Abstr.) (Rus)

[The potentials of electrocardiography in the diagnosis of closed combined injuries to the thoracic organs] Iakovlev VA, et al. **Voen Med Zh** 1990 Mar;(3):41–4 (Rus)

[Electrocardiographic signs of hypertrophy of the interventricular septum in patients with hypertrophic cardiomyopathy] Ianovskil GV, et al. **Vrach Delo** 1990 Mar; (3):60–2 (Eng. Abstr.) (Rus)

[Magneto–, electro– and echocardiography in assessing postinfarct myocardial changes] Kornelchuk IA. **Vrach Delo** 1990 Jun;(6):12–5 (Eng. Abstr.) (Rus)

[The variation pulsometric and electrocardiographic indices of patients with mild craniocerebral trauma] Nasalik BG. **Vrach Delo** 1990 May;(5):80–2 (Eng. Abstr.) (Rus)

[The electrocardiogram of patients with mild craniocerebral trauma] Polishchuk NE, et al. **Vrach Delo** 1989 Dec; (12):78–81 (Eng. Abstr.) (Rus)

[Specifics of ECG findings in physical stress tests in patients who survived myocardial infarcts] Pavlović M, et al. **Srp Arh Celok Lek** 1987 Jul;115(7):773–80 (Scc)

[Changes in the electrocardiogram in patients with coma due to poisoning] Durković Z, et al. **Acta Med Iugosl** 1989; 43(4):287–94 (Eng. Abstr.) (Scr)

[Familial poisoning by carbon monoxide with different ECG changes] Milosavljević J, et al. **Arh Hig Rada Toksikol** 1989 Dec;40(4):355–62 (Eng. Abstr.) **(Scr)**

[The mean values and correlation between blood pressure, body weight, height, heart rate, the PQ, QT and QTc intervals, the QRS-complex and the echocardiographic dimensions of the left atrium and ventricle in 515 14-year-old students] Catipović-Veselica K, et al. **Lijec Vjesn** 1989 Nov;111(11):377–81 (Eng. Abstr.) **(Scr)**

[Corrected Q–T interval in the electrocardiogram in patients with anorexia nervosa] Duraković Z, et al. **Lijec Vjesn** 1989 Nov;111(11):374–6 (Eng. Abstr.) **(Scr)**

[The role of ECG changes in mortality in a Croatian population] Cerić B, et al. **Med Arh** 1988;42(1–2):19–23 (Eng. Abstr.) **(Scr)**

[Dextrocardia—a review of electrocardiographic characteristics] Santić Z. **Med Arh** 1984;38(5):239–43 (Eng. Abstr.) **(Scr)**

[Evaluation of the Q wave in leads II, III and aVF. II. Impulse conduction disorders , hypertrophy of the cardiac muscle, pre-excitation, focal and diffuse changes in the cardiac muscle and other causes] Cagáň S, et al. **Vnitr Lek** 1989 Sep;35(9):838–45 (Eng. Abstr.) **(Slo)**

[Evaluation of the Q wave in leads II, III, and aVF. I. Deviation of the electrical axis of the heart, ischemic heart disease] Cagáň S, et al. **Vnitr Lek** 1989 Aug;35(8):743–51 (Eng. Abstr.) **(Slo)**

[The QRS amplitude in the electrocardiogram is modified by pericardial fluid and its content of sodium chloride] Fuenmayor AJ, et al. **Acta Cient Venez** 1988;39(4):336–9 (Eng. Abstr.) **(Spa)**

[Electrovectorcardiographic manifestations of supraventricular ectopic rhythms (an interpretive hypothesis)] de Micheli A, et al. **Arch Inst Cardiol Mex** 1989 Nov–Dec;59(6):619–27 (26 ref.) (Eng. Abstr.) **(Spa)**

[Experimental subendocardial anterolateral infarctions] Medrano GA, et al. **Arch Inst Cardiol Mex** 1989 Jul–Aug; 59(4):353–60 (Eng. Abstr.) **(Spa)**

[Analysis of high frequency and low amplitude late potentials in the body surface electrocardiogram, in acute and chronic stages of ischemic cardiopathy] Palma Gámiz JL, et al. **Arch Inst Cardiol Mex** 1990 Jan–Feb;60(1):39–44 (Eng. Abstr.) **(Spa)**

[Behavior of the ST segment, during isometric exercise, in chagasic patients with apical aneurysm of the left ventricle] Torres A, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct; 59(5):499–504 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

The dangers of electrocardiography in general practice. Mullen PJ. **J R Army Med Corps** 1990 Feb;136(1):40–2

CLASSIFICATION

Comparison between two classification systems of the electrocardiogram in epidemiologic investigations. The Minnesota code and the Washington D.C., code. Brohet CR, et al. **J Electrocardiol** 1989;22 Suppl:158–61

The Delphi method to validate diagnostic knowledge in computerized ECG interpretation. Kors JA, et al. **Methods Inf Med** 1990 Jan;29(1):44–50

DRUG EFFECTS

QT interval of the ECG, heart rate and arterial pressure using propofol, methohexital or midazolam for induction of anaesthesia. Saarnivaara L, et al. **Acta Anaesthesiol Scand** 1990 May;34(4):276–81

Effect of rate augmentation and isoproterenol on the amplitude of atrial and ventricular electrograms. Rosenheck S, et al. **Am J Cardiol** 1990 Jul 1;66(1):101–2

Effect of estrogen replacement therapy on the ST-segment response to postural and hyperventilation stimuli. Vaitkevicius P, et al. **Am J Cardiol** 1989 Nov 1; 64(16):1076–7

The cardiotoxicity of systemic amebicides. A comparative electrocardiographic study. Powell SJ. **Am J Trop Med Hyg** 1967 Jul;16(4):447–50

Antiarrhythmic and antinecrotic effects of yohimbine stereoisomers in rats during coronary occlusion and reperfusion. Bernauer W. **Basic Res Cardiol** 1990 Mar–Apr; 85(2):132–41

Adaptation to stress exposure prevents arrhythmogenic and contractural effects of the excess of Ca2+ on the heart by the increased activity of sarcoplasmic reticulum. Meerson FZ, et al. **Basic Res Cardiol** 1990 Jan–Feb; 85(1):96–103

Treatment with isoproterenol of bupivacaine toxicity. Lacombe P, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S1

Effect of changes in load on monophasic action potential and segment length of pig heart in situ. Dean JW, et al. **Cardiovasc Res** 1989 Oct;23(10):887–96

Effects of heart rate and diltiazem hydrochloride on alternans of ST segment elevation and ventricular arrhythmia during acute myocardial ischaemia in dogs. Hayakawa T, et al. **Cardiovasc Res** 1989 Jun;23(6):520–8

Mechanism of ECG changes and arrhythmogenic properties of low osmolality contrast media during coronary arteriography in dog. Kløw NE, et al. **Cardiovasc Res** 1990 Apr;24(4):303–8

Antianginal drugs and relationship between epicardial ST segment depression and moderate regional myocardial blood flow reduction in experimental partial coronary artery occlusion. Timogiannakis GB, et al. **Cardiovasc Res** 1990 May;24(5):396–403

Inhibition of transvenous pacing through the coronary sinus by the atrial P wave: diagnosis with the aid of isoproterenol. Weinstock M, et al. **Chest** 1971 May;59(5):563–6

Relationship between the dose-response effects of diazepam and clobazam on electroencephalographic parameters and on kindled amygdaloid seizure activity in rats. Harris QL, et al. **Clin Exp Pharmacol Physiol** 1988 Oct;15(10):753–64

Electrocardiographic changes induced by inhaled salbutamol after treatment with bendrofluazide: effects of replacement therapy with potassium, magnesium and triamterene. Lipworth BJ, et al. **Clin Sci** 1990 Mar;78(3):255–9

The electrocardiographic changes in a case of flecainide overdose. Chung PK, et al. **Conn Med** 1990 Apr;54(4):183–5

Divergent cardiac effects of the first and second generation hypoglycemic sulfonylurea compounds. Ballagi-Pordány G, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):109–14

Comparison of the effect of amiodarone and benziodarone on thyroxine metabolism and surface ECG. Moulopoulos SD, et al. **Endocrinol Exp** 1989 Dec;23(4):269–78

ST/HR slope during prostacyclin treatment: an improved method to identify patients with advanced coronary artery disease. Bugiardini R, et al. **Eur Heart J** 1989 Nov; 10(11):991–7

Intermittent transdermal nitroglycerin monotherapy in stable exercise-induced angina: a comparison with a continuous schedule. Ferratini M, et al. **Eur Heart J** 1989 Nov; 10(11):998–1002

The influence of acidosis on the myocardial uptake and electrocardiographic effects of disopyramide. Bova S, et al. **Eur J Pharmacol** 1989 Sep 13;168(2):179–85

Pimozide and tricyclics [letter; comment] Bernstein M. **Hosp Community Psychiatry** 1990 Apr;41(4):454 Comment on: Hosp Community Psychiatry 1989 Nov;40(11):1113–4.

Atrial flutter in infancy. Sahadevan MR, et al. **Indian J Pediatr** 1989 Jul–Aug;56(4):535–9

Time course of cardiac performance in hypertensive patients after verapamil assessed by nuclear ventriculography. González-Gómez A, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jul;28(7):292–7

Electrocardiogram studies on cancer patients treated with OK-432, a streptococcal preparation with potent biological response modifier activities. Torisu M, et al. **J Biol Response Mod** 1989 Dec;8(6):665–75

Adverse cardiac effects of combined neuroleptic ingestion and tricyclic antidepressant overdose. Wilens TE, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):51–4

A prolonged QTc interval. Is it an important effect of antiarrhythmic drugs? Fish FA, et al. **Med Toxicol Adverse Drug Exp** 1989 Nov–Dec;4(6):400–11 (120 ref.)

Propafenone induced acute variation of chronic atrial pacing threshold: a case report. Montefoschi N, et al. **PACE** 1990 Apr;13(4):480–3

New antiarrhythmic drugs. II. Flecainide. Schneeweiss A. **Pediatr Cardiol** 1990 Jul;11(3):143–6 (16 ref.)

The cardiovascular effects of antidepressants. Warrington SJ, et al. **Psychol Med Monogr Suppl** 1989;16:i–iii, 1–40 (425 ref.)

Use of fluoxetine in a person with cardiac arrhythmias [letter] Zarzar MN, et al. **Psychosomatics** 1990 Spring;31(2):235–6

Electrocardiographic abnormalities during ritodrine administration. Faidley CK, et al. **South Med J** 1990 May; 83(5):503–6

A prospective study in high risk subjects of electrocardiographic changes with ivermectin. Dukuly ZD, et al. **Trop Med Parasitol** 1990 Mar;41(1):73–4

[Effects of dauricine on His-bundle electrogram and interaction with other drugs in anesthetized rabbits] Zhu JQ, et al. **Yao Hsueh Hsueh Pao** 1990;25(1):6–10 (Eng. Abstr.) **(Chi)**

[Electrophysiologic effects of orally administered amiodarone] Pleskot M, et al. **Vnitr Lek** 1990 Jan; 36(1):45–51 (Eng. Abstr.) **(Cze)**

[New aspects of the electrophysiologic effect of antiarrhythmic agents] Antoni H, et al. **Herz** 1990 Apr; 15(2):61–9 (39 ref.) (Eng. Abstr.) **(Ger)**

[New aspects of the molecular effect of anti-arrhythmia agents] Honerjäger P. **Herz** 1990 Apr;15(2):70–8 (44 ref.) (Eng. Abstr.) **(Ger)**

New aspects of the clinical use of anti-arrhythmia agents with special reference to acute therapy of ventricular tachycardia (lidocaine vs. ajmaline)] Manz M, et al. **Herz** 1990 Apr;15(2):79–89 (81 ref.) (Eng. Abstr.) **(Ger)**

[Can sudden cardiac death be prevented by treatment with anti-arrhythmia drugs?] Zrenner B, et al. **Herz** 1990 Apr; 15(2):90–102 (81 ref.) (Eng. Abstr.) **(Ger)**

[Anti-arrhythmia therapy in transition?] **Internist (Berl)** 1990 Mar;31(3 Suppl [Anniv No TIARRH):2 **(Ger)**

[Arrhythmia as an indicator for reperfusion following acute myocardial infarct?] Langes K, et al. **Klin Wochenschr** 1989 Dec 4;67(23):1199–204 (Eng. Abstr.) **(Ger)**

[Medicamentous prevention of recurrence of cardiac arrhythmias] Lüderitz B. **Verh Dtsch Ges Inn Med** 1989; 95:305–13 (19 ref.) **(Ger)**

[Effect of vasodilator agents on the character and incidence of cardiac arrhythmia in chronic heart failure] Bechler-Lisińska J, et al. **Z Gesamte Inn Med** 1990 Mar 1;45(3):71–6 (Eng. Abstr.) **(Ger)**

[Thrombolytic therapy in acute myocardial infarct. 1. Markers for evaluating effectiveness and thrombolytic substances] Kothe K. **Z Gesamte Inn Med** 1990 Apr 1; 45(7):177–83 (50 ref.) (Eng. Abstr.) **(Ger)**

[The anti-arrhythmia effect and hemodynamic effects of Bonnecor in intravenous administration] Volkmann H, et al. **Z Gesamte Inn Med** 1989 Dec 1;44(23):707–11 (Eng. Abstr.) **(Ger)**

[Stress hemodynamics in hypertensive patients treated with nifedipine] Zott HJ, et al. **Z Gesamte Inn Med** 1989 Dec 1;44(23):711–4 (Eng. Abstr.) **(Ger)**

[Effectiveness of retard gallopamil in patients with stress-induced ST-segment depression and silent myocardial ischemias] Barbato G, et al. **Z Kardiol** 1989;78 Suppl 5:98–102 (Eng. Abstr.) **(Ger)**

[Dose-response relation of gallopamil in comparison with nifedipine, diltiazem and tiapamil in patients with coronary heart disease] Hopf R, et al. **Z Kardiol** 1989;78 Suppl 5:69–76 (Eng. Abstr.) **(Ger)**

[Electrophysiologic effects of the calcium antagonist isradipine, a double-blind placebo controlled study] Kühlkamp V, et al. **Z Kardiol** 1990 Jun;79(6):436–40 (Eng. Abstr.) **(Ger)**

[Therapeutic coronary effectiveness of retard gallopamil following repeated administration in comparison with placebo] Loskot F, et al. **Z Kardiol** 1989;78 Suppl 5:89–93 (Eng. Abstr.) **(Ger)**

[Effect of 75 mg retard gallopamil on stress-induced myocardial ischemia] Sinn R, et al. **Z Kardiol** 1989;78 Suppl 5:83–8 (Eng. Abstr.) **(Ger)**

[Treatment of stress-induced and spontaneous myocardial ischemia in coronary disease patients with slow-release gallopamil—preliminary results of an open study] Steinbeck C, et al. **Z Kardiol** 1989;78 Suppl 5:103–7 (Eng. Abstr.) **(Ger)**

[The effect of beta blockers on the QT interval: the possible role of mechanisms other than beta block] Pala AM, et al. **Minerva Med** 1989 Dec;80(12):1283–7 (Eng. Abstr.) **(Ita)**

[A comparative assessment of the effect of Omnipaque and Verografin on ECG indices and myocardial contractility in patients with unstable angina during coronary ventriculography] Savchenko AP, et al. **Vestn Rentgenol Radiol** 1989 Jul–Aug;(4):13–6 (Eng. Abstr.) **(Rus)**

ECONOMICS

The effect of the number of electrocardiograms analyzed on cardiovascular disease surveillance: the Minnesota Heart Survey (MHS). Edlavitch SA, et al. **J Clin Epidemiol** 1990; 43(1):93–9

HISTORY

Calculating electrical axis. 1979 [classical article] Alspach JA. **Am J Nurs** 1990 May;90(5):76C–76J

Bernard A Robinson 1888–1979: an unknown pioneer of electrocardiography. Hollman A. **Br Heart J** 1990 Mar; 63(3):200–4

Significance of T1 less than T3 when R1 is greater than R3 in Einthoven's three lead electrocardiogram: an historical note. Manning GW. **Can J Cardiol** 1989 Oct;5(7):333–4

[The centennial of electrocardiography] Franco A. **Rev Port Cardiol** 1988 May–Jun;7(3):261–6 **(Por)**

INSTRUMENTATION

Computerized interactive continuous monitoring of cardiac arrhythmias with the SM 2000H system. Fazekas T, et al. **Acta Physiol Hung** 1990;75 Suppl:97–8

A low cost ECG central station for intensive care. Jans R, et al. **Australas Phys Eng Sci Med** 1990 Mar;13(1):31–5

Software to analyze regional left ventricular function. Kay JC, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S74

Computer search for electrocardiographic lead directions to optimize diagnostic differentiation. A novel concept in electrocardiographic lead design. Batchlor CD, et al. **Circulation** 1967 Aug;36(2):320–30

Limb leads of the electrocardiogram: sequencing revisited. Dower GE, et al. **Clin Cardiol** 1990 May;13(5):346–8

Some aspects of the wideband recording of the electrocardiogram. Mor-Avi V, et al. **Clin Cardiol** 1990 Feb;13(2):120–6 (45 ref.)

Lead systems for the abdominal fetal electrocardiogram. van Oosterom A. **Clin Phys Physiol Meas** 1989;10 Suppl B:21–6 (20 ref.)

Novametrix 902 neonatal monitors. **Health Devices** 1988 Oct; 17(10):311–2

Intracardiac electrocardiogram. Turakhia DP. **J Assoc Physicians India** 1989 Nov;37(11):711–3

Electrocardiographic artifact caused by extracorporeal roller pump [letter] Kleinman B, et al. **J Clin Monit** 1990 Jul; 6(3):258–9

The signal-averaged electrocardiogram and late potentials. A comparative analysis of commercial devices. Henkin R, et al. **J Electrocardiol** 1989;22 Suppl:19–24

Are ECG Welsh cup electrodes effectively cleaned? Trend V, et al. **J Hosp Infect** 1989 Nov;14(4):325–31

Evaluation report: ECG recorders. **J Med Eng Technol** 1989 Sep–Oct;13(5):257–65

Rapid recovery physiological preamplifier without AC coupling capacitors. McRobbie DW. **Med Biol Eng Comput** 1990 Mar;28(2):198–200

[Intra-atrial ECG via a central venous catheter] Uhrbrand B, et al. **Ugeskr Laeger** 1990 Jan 29;152(5):320–2 (Eng.

Abstr.) (Dan)
[Clinical use of a new cava catheter with an ECG lead over a steel mandrin] Hausser J. **Anaesthesist** 1990 Apr; 39(4):240–2 (Eng. Abstr.) (Ger)
[Quality control within the scope of analysis of densitometry parameters in the evaluation of myocardial perfusion] Haude M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:77–8 (Ger)
[Rate adaptive cardiac pacemakers: a comparison of impulse and acceleration proportional control] Hubmann M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:57–9 (Ger)
[Nuclear magnetic resonance tomography of the heart] Kohl HP. **Biomed Tech (Berlin)** 1989;34 Suppl:52–3 (Ger)
[Magnetocardiography: technical progress by a multichannel SQUID system] Moshage W, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:205–6 (Ger)
[Is the stress period a useful parameter for rate adapted heart stimulation?] Niederlag W, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:62–5 (Ger)
[The detection and stimulus threshold behavior of titanium nitride cardiac pacemaker electrodes] Schaldach M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:54–6 (Ger)
[Comparison of rate adapted cardiac pacemakers—advantages and weaknesses] Zegelman M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:60–1 (Ger)
[Mapping methods for localizing the origin of tachycardic arrhythmia] Haberl R, et al. **Internist (Berl)** 1990 May; 31(5):350–5 (32 ref.) (Ger)
[A new mechanical sensor for activity controlled and body position dependent frequency adaptive pacemaker stimulation] Alt E, et al. **Z Kardiol** 1990 Jun;79(6):408–16 (Eng. Abstr.) (Ger)
[Principle of the activity-controlled rate-adaptive cardiac pacemaker: analysis of stress and environment-induced mechanical effects on the human body] Alt E, et al. **Z Kardiol** 1989 Sep;78(9):587–97 (Eng. Abstr.) (Ger)
[Spatial and numerical representations in art and cardiology] Heintzen P. **Z Kardiol** 1989;78 Suppl 7:1–18 (Ger)
[Validation of trend-supported ST segment analysis of long-term ECG recordings] Hoberg E, et al. **Z Kardiol** 1990 Feb;79(2):107–12 (Eng. Abstr.) (Ger)
[A portable device for measuring the characteristics of electrocardiographs] Koltun VM, et al. **Med Tekh** 1989 Jul–Aug;(4):55–9 (Eng. Abstr.) (Rus)
[An experimental unit for high-resolution electrocardiography and the method of recording of late ventricular potentials] Sedov AN, et al. **Med Tekh** 1990 Mar–Apr;(2):11–3 (Eng. Abstr.) (Rus)

METHODS

High-frequency electrocardiography: diagnosis of arrhythmia risk. Engel TR. **Am Heart J** 1989 Dec; 118(6):1302–16 (88 ref.)
The snark-like, supposedly unique zero of potential has been introduced into electrocardiography [letter] Geselowitz DB, et al. **Am Heart J** 1967 Aug;74(2):293
The effects of atrial pacing on the signal-averaged electrocardiogram in patients with coronary artery disease. Greenspon AJ, et al. **Am Heart J** 1990 Jan;119(1):29–34
The scalar electrocardiogram of the orthotopic heart transplant recipient. Sandhu JS, et al. **Am Heart J** 1990 Apr;119(4):917–23
False positive signal-averaged electrocardiogram produced by atrial flutter. Schrem SS, et al. **Am Heart J** 1990 Sep; 120(3):698–9
Electrocardiographic limb leads: suggestion for their logical display. Uhley HN, et al. **Am Heart J** 1966 Apr;71(4):571–3
Utility of a stimulus artifact suppressor for transesophageal pacing. Benson DW Jr, et al. **Am J Cardiol** 1990 Feb 1; 65(5):393–4
Transmural ventricular activation during consecutive cycles of sustained ventricular tachycardia associated with coronary artery disease. Branyas NA, et al. **Am J Cardiol** 1990 Apr 1;65(13):861–7
Atrial endocardial mapping in the rare form of atrial flutter. Cosio FG, et al. **Am J Cardiol** 1990 Sep 15;66(7):715–20
Effects of left ventricular hypertrophy on the signal-averaged electrocardiogram. Hilton TC, et al. **Am J Cardiol** 1990 Sep 15;66(7):764–6
Improved prediction of left ventricular mass by regression analysis of body surface potential maps. Kornreich F, et al. **Am J Cardiol** 1990 Aug 15;66(4):485–92
Influence of anterograde flow in the infarct artery on the incidence of late potentials after acute myocardial infarction. Lange RA, et al. **Am J Cardiol** 1990 Mar 1; 65(9):554–8
Rapid method to determine the electrocardiographic frontal plane axis. Meissner MD, et al. **Am J Cardiol** 1990 Apr 1;65(13):949–50
False-positive treadmill exercise tests due to computer signal averaging. Milliken JA, et al. **Am J Cardiol** 1990 Apr 1; 65(13):946–8
ST monitoring for myocardial ischemia during and after coronary angioplasty. Mizutani M, et al. **Am J Cardiol** 1990 Aug 15;66(4):389–93
Diagnostic features of body surface potential maps in patients with myocardial ischemia and normal resting 12-lead electrocardiograms. Musso E, et al. **Am J Cardiol** 1990 Apr 15;65(15):973–9
Comparison of standard 12-lead and modified exercise electrocardiograms [letter; comment] Papouchado M, et al. **Am J Cardiol** 1990 Apr 15;65(15):1047–8 Comment on: Am J Cardiol 1989 Jan 1;63(1):35–9.
Relation between ventricular late endocardial activity during intraoperative endocardial mapping and low-amplitude signals within the terminal QRS complex on the signal-averaged surface electrocardiogram. Schwarzmaier HJ, et al. **Am J Cardiol** 1990 Aug 1;66(3):308–14
Anatomic validation of electrocardiographic estimation of the size of acute or healed myocardial infarcts. Sevilla DC, et al. **Am J Cardiol** 1990 Jun 1;65(20):1301–7
Lack of correlation between transient myocardial ischemia and late potentials on the signal-averaged electrocardiogram. Turitto G, et al. **Am J Cardiol** 1990 Feb 1;65(5):290–6
An electrocardiographic midterm follow-up study after anatomic repair of transposition of the great arteries. Villafane J, et al. **Am J Cardiol** 1990 Aug 1;66(3):350–4
Usefulness of total 12-lead QRS voltage compared with other criteria for determining left ventricular hypertrophy in hypertrophic cardiomyopathy: analysis of 57 patients studied at necropsy. Dollar AL, et al. **Am J Med** 1989 Oct;87(4):377–81
Risk stratification and management of patients with organic heart disease and nonsustained ventricular tachycardia: role of programmed stimulation, left ventricular ejection fraction, and the signal-averaged electrocardiogram. Turitto G, et al. **Am J Med** 1990 Jan;88(1N):35N–41N
The detection of intra-operative myocardial ischaemia. Preliminary experience with the right-sided precordial lead. De Hert SG, et al. **Anaesthesia** 1989 Nov;44(11):881–4
Detection of the spatial distribution of late potentials by body surface mapping using forty-five unipolar, leads. Nakai K, et al. **Angiology** 1990 Aug;41(8):639–46
Electrophysiological study in supraventricular tachycardia. Lau KC, et al. **Ann Acad Med Singapore** 1990 Jan; 19(1):84–9 (61 ref.)
Supine exercise electrocardiography compared with exercise radionuclide angiography in noninvasive identification of severe coronary artery disease. Gibbons RJ, et al. **Ann Intern Med** 1990 May 15;112(10):743–9
Importance of precordial electrocardiogram monitoring during coronary artery bypass grafting [letter] Bahadir I, et al. **Ann Thorac Surg** 1990 Jan;49(1):169–70
ST segment changes as a surrogate end point in coronary thrombolysis [comment] Hillis WS, et al. **Br Heart J** 1990 Aug;64(2):111–2 (3 ref.) Comment on: Br Heart J 1990 Aug;64(2):113–7. Comment on: Br Heart J 1990 Aug;64(2):118–20.
Reduction in ST segment elevation after thrombolysis predicts either coronary reperfusion or preservation of left ventricular function [see comments] Saran RK, et al. **Br Heart J** 1990 Aug;64(2):113–7 Comment in: Br Heart J 1990 Aug;64(2):111–2.
Electrode catheters and the diagnosis of Ebstein's anomaly of the tricuspid valve. Watson H. **Br Heart J** 1966 Mar; 28(2):161–71 (53 ref.)
Coronary angiographic features within 48 hours from onset of non-Q wave myocardial infarction with R wave regression and no ST segment depression. Park SE, et al. **Cardiology** 1990;77(2):121–9
Intracoronary electrocardiogram during torsade des pointes secondary to intracoronary papaverine. Jain A, et al. **Cathet Cardiovasc Diagn** 1989 Dec;18(4):255–7
Exercise body surface potential mapping in single and multiple coronary artery disease. Montague TJ, et al. **Chest** 1990 Jun;97(6):1333–42
Importance of preexcited QRS morphology during induced atrial fibrillation to the diagnosis and localization of multiple accessory pathways. Fananapazir L, et al. **Circulation** 1990 Feb;81(2):578–85
Top-resolution frequency analysis of electrocardiogram with adaptive frequency determination. Identification of late potentials in patients with coronary artery disease. Haberl R, et al. **Circulation** 1990 Oct;82(4):1183–92
Relation between localization of coronary artery disease and local abnormalities in ventricular activation during exercise tests. Igarashi H, et al. **Circulation** 1990 Feb;81(2):461–9
Incomplete left bundle-branch block. The view from transseptal intraventricular leads. Leighton RF, et al. **Circulation** 1967 Aug;36(2):261–74
Electrocardiographic quantitation of ventricular repolarization. Merri M, et al. **Circulation** 1989 Nov; 80(5):1301–8
Body surface mapping of ectopic left and right ventricular activation. QRS spectrum in patients without structural heart disease. SippensGroenewegen A, et al. **Circulation** 1990 Sep;82(3):879–96
Body surface mapping during percutaneous transluminal coronary angioplasty. QRS changes indicating regional myocardial conduction delay. Spekhorst H, et al. **Circulation** 1990 Mar;81(3):840–9
Value of notching and slurring of the resting QRS complex in the detection of ischemic heart disease. France RJ, et al. **Clin Cardiol** 1990 Mar;13(3):190–6
STAN—the Gothenburg model for fetal surveillance during labour by ST analysis of the fetal electrocardiogram. Rosén KG, et al. **Clin Phys Physiol Meas** 1989;10 Suppl B:51–6 (16 ref.)
Fuzzy beat labeling for intelligent arrhythmia monitoring. Barro S, et al. **Comput Biomed Res** 1990 Jun;23(3):240–58
Decision rules for the ECG diagnosis of inferior myocardial infarction. Pahlm O, et al. **Comput Biomed Res** 1990 Aug; 23(4):332–45
Sensitivity and specificity of dobutamine—electrocardiography test to detect multivessel disease after acute myocardial infarction. Coma-Canella I. **Eur Heart J** 1990 Mar;11(3):249–57
Inaccuracy of various proposed electrocardiographic criteria in the diagnosis of apical myocardial infarction—a critical review. Giannuzzi P, et al. **Eur Heart J** 1989 Oct; 10(10):880–6
Heart transplant rejection detected by signal averaged QRS analysis. Preliminary results. Sgrigna V, et al. **G Ital Cardiol** 1989 Dec;19(12):1119–24
Cardiac care. Signal-averaged electrocardiograms. Lansdowne LM. **Heart Lung** 1990 Jul;19(4):329–35 (21 ref.)
Evaluation of cardiac arrhythmias by exercise testing. Candinas RA, et al. **Herz** 1990 Feb;15(1):21–7 (31 ref.)
A new technique for line interference monitoring and reduction in biopotential amplifiers. Ider YZ, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):624–31
ECG data compression techniques—a unified approach. Jalaleddine SM, et al. **IEEE Trans Biomed Eng** 1990 Apr; 37(4):329–43 (124 ref.)
Low-pass differentiators for biological signals with known spectra: application to ECG signal processing. Laguna P, et al. **IEEE Trans Biomed Eng** 1990 Apr;37(4):420–5
QRS feature extraction using linear prediction. Lin KP, et al. **IEEE Trans Biomed Eng** 1989 Oct;36(10):1050–5
Sampling frequency of the electrocardiogram for spectral analysis of the heart rate variability. Merri M, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):99–106
The signal averaged electrocardiogram: a practical primer. Slack JD, et al. **Indiana Med** 1990 Jul;83(7):482–6
Magnetocardiographic patterns in complicated and uncomplicated pregnancies. Anninos P, et al. **Int J Gynaecol Obstet** 1990 Apr;31(4):329–33
Preliminary assessment of very low calorie diets by conventional and signal-averaged electrocardiography. Weigle DS, et al. **Int J Obes** 1989;13(5):691–7
Electrocardiogram and pulse-derived phasic cardiac responses: a rejoinder to Turpin [letter] Barry RJ. **Int J Psychophysiol** 1989 Nov;8(2):193–4
The problem of cardiac response latency-jitter and plethysmographic recording: a reply to Barry and Mitchell [letter] Turpin G. **Int J Psychophysiol** 1989 Nov; 8(2):189–91
Syncope and sudden death in hypertrophic cardiomyopathy [comment] Brandenburg RO. **J Am Coll Cardiol** 1990 Apr; 15(5):962–4 Comment on: J Am Coll Cardiol 1990 Apr;15(5):948–55. Comment on: J Am Coll Cardiol 1990 Apr;15(5):956–61.
Diagnostic value of electrocardiographic variables to predict the presence of ventricular late potentials. Breithardt G, et al. **J Am Coll Cardiol** 1990 Jan;15(1):152–8
Signal-averaged electrocardiography in hypertrophic cardiomyopathy [see comments] Cripps TR, et al. **J Am Coll Cardiol** 1990 Apr;15(5):956–61 Comment in: J Am Coll Cardiol 1990 Apr;15(5):962–4.
The signal-averaged electrocardiogram and ventricular arrhythmias after thrombolysis for acute myocardial infarction [see comments] Turitto G, et al. **J Am Coll Cardiol** 1990 May;15(6):1270–6 Comment in: J Am Coll Cardiol 1990 May;15(6):1277–8.
Interpretation of "ECG of the Month" defended [letter] Jacobs G, et al. **J Am Vet Med Assoc** 1990 Mar 15; 196(6):834–5
Lead-II changes in anterior wall infarction. Ananthasubramaniam G, et al. **J Assoc Physicians India** 1989 Jun;37(6):383–4
Right precordial mapping. Diagnostic sensitivity and specificity of leads V3R to V6R in different intercostal spaces in cases with right ventricular infarction. Gupta MC, et al. **J Assoc Physicians India** 1990 May;38(5):327–9
More about U wave [letter; comment] Turakhia DP. **J Assoc Physicians India** 1989 Sep;37(9):616–7 Comment on: J Assoc Physicians India 1988 Oct;36(10):616.
Power spectrum analysis of fetal heart rate variability using the abdominal maternal electrocardiogram. Abboud S, et al. **J Biomed Eng** 1990 Mar;12(2):161–4
Electrocardiographic monitoring: an overview. Weinfurt PT. **J Clin Monit** 1990 Apr;6(2):132–8 (9 ref.)
Electrogenesis of the S1S2S3 electrocardiographic pattern. A study in humans based on body surface potential and right ventricular endocardial mapping. Delise P, et al. **J Electrocardiol** 1990 Jan;23(1):23–31
Improved ECG interpretation using synthesized VCG for the diagnosis of inferior myocardial infarction. Edenbrandt L, et al. **J Electrocardiol** 1990 Jul;23(3):207–11
Use of body surface electrocardiographic mapping to localize the asynergic site in previous myocardial infarction. Ikeda K, et al. **J Electrocardiol** 1990 Jan;23(1):13–22
Simulation and experimental studies of the factors influencing the frequency spectrum of cardiac extracellular waveforms. Joly D, et al. **J Electrocardiol** 1990 Apr;23(2):109–25
Estimation of left ventricular ejection fraction with healed myocardial infarction by multiple regression analysis of electrocardiographic Minnesota Q-QS codes. POSCH Group [see comments] Karnegis JN, et al. **J Electrocardiol** 1990 Jan;23(1):1–7 Comment in: J Electrocardiol 1990 Jan;23(1):9–12.
Twelve-lead electrocardiogram recording during percutaneous transluminal coronary angioplasty. Analysis of reciprocal changes. Kracoff OH, et al. **J Electrocardiol** 1990 Jul;23(3):191–8

Spectrotemporal analysis of ventricular late potentials. Lander P, et al. **J Electrocardiol** 1990 Apr;23(2):95–108
The value of body surface potential maps in detecting abnormal ventricular wall motion. Tseng YZ, et al. **J Electrocardiol** 1990 Apr;23(2):127–36
Electrocardiographic methods for quantifying the sizes of healed infarction and acutely ischemic myocardium [comment] Wagner GS, et al. **J Electrocardiol** 1990 Jan; 23(1):9–12 Comment on: J Electrocardiol 1990 Jan;23(1):1–7.
Application of the Karhunen–Loeve expansion to evaluate regional cardiac excitation in body surface potential maps. Watabe S, et al. **J Electrocardiol** 1990 Jan;23(1):33–40
Assessment of right ventricular overload in patients with chronic pulmonary disease by 12–lead electrocardiography, vectorcardiography, and body surface electrocardiographic mapping. Ikeda K, et al. **Jpn Circ J** 1989 Oct; 53(10):1278–86
Comparison of SVD methods to extract the foetal electrocardiogram from cutaneous electrode signals. Callaerts D, et al. **Med Biol Eng Comput** 1990 May; 28(3):217–24
Method for the computation of an accurate zero reference for ECG signals. Peper A, et al. **Med Biol Eng Comput** 1990 Mar;28(2):105–12
Effect of bipole configuration on atrial electrograms during atrial fibrillation. Baerman JM, et al. **PACE** 1990 Jan; 13(1):78–87
Interpolating unipolar epicardial potentials from electrodes separated by increasing distances. Blanchard SM, et al. **PACE** 1989 Dec;12(12):1938–55
Correlation between programmed ventricular stimulation and signal–averaged electrocardiograms in the identification of patients at high risk for serious ventricular arrhythmias. Breithardt G, et al. **PACE** 1990 May;13(5):685–91
Effects of filtering on right ventricular electrograms recorded from endocardial catheters in humans. Klitzner TS, et al. **PACE** 1990 Jan;13(1):69–77
The use of signal–averaged electrocardiography in predicting patients at high risk for sudden death. Seale WL, et al. **PACE** 1990 Jun;13(6):796–807 (49 ref.)
Three–dimensional electrocardiography of cardiac pacing. Trigano JA. **PACE** 1990 Aug;13(8):961–5
Signal–averaged electrocardiography. Promising tool for predicting sudden cardiac death. Rotche RM, et al. **Postgrad Med** 1990 Apr;87(5):123–4, 127–8
Frequency analysis of surface electrocardiogram and two–dimensional echocardiography for noninvasive diagnosis of rejection after heart transplantation. Reichenspurner H, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2552–3
[Evaluation of 3 chest leads CM5, CC5, and CL5 and factors which influence the results] Huang JY, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Apr; 17(2):103–6, 127–8 (Eng. Abstr.) (Chi)
[Intra–atrial ECG (letter)] Christensen C. **Ugeskr Laeger** 1990 Apr 9;152(15):1100 (Dan)
[Observations on the use of exertion electrocardiography for the screening of coronary artery disease] Laarman GJ, et al. **Ned Tijdschr Geneeskd** 1990 Feb 24;134(8):366–70 (Dut)
[What post–infarction test before discharge home?] Siltanen P. **Duodecim** 1990;106(1):133–45 (39 ref.) (Fin)
[Vectorcardiographic and chronotopocardiographic study of septal hypoperfusion] Ruttkay–Nedecký I, et al. **Ann Cardiol Angeiol (Paris)** 1990 Apr;39(4):191–4 (Eng. Abstr.) (Fre)
[Signal–averaged electrocardiography in right ventricular dysplasia] Leclercq JF, et al. **Arch Mal Coeur** 1990 Apr; 83(4):525–9 (Eng. Abstr.) (Fre)
[The diagnostic use of isopotential maps in cardiology] Kornreich F. **Bull Mem Acad R Med Belg** 1989; 144(1–2):157–66; discussion 167 (Fre)
[Arrhythmia in the stress ECG] Löllgen H. **Med Klin** 1990 Apr 15;85(4):206–11 (80 ref.) (Ger)
[Description and evaluation of findings in electrophysiologic studies of the heart] Kettner W, et al. **Z Arztl Fortbild (Jena)** 1989;83(15):771–6 (24 ref.) (Ger)
[The importance of two–dimensional echocardiography in conjunction with trans–esophageal stimulation of the left atrium for the diagnosis of myocardial ischemia] Gawor Z, et al. **Z Gesamte Inn Med** 1989 Dec 15;44(24):736–40 (Eng. Abstr.) (Ger)
[Significance of 2–dimensional echocardiography for the diagnosis of dipyridamole–induced myocardial ischemia in patients with coronary heart disease] Gawor Z, et al. **Z Gesamte Inn Med** 1990 Jan 1;45(1):5–8 (Eng. Abstr.) (Ger)
[Recording electrical signals of the heart—experiences with eliminating artefact potentials] Kleiner HJ. **Z Gesamte Inn Med** 1990 Jun 15;45(11):318–21 (Eng. Abstr.) (Ger)
[Arrhythmia related to a dual chamber DDD pacemaker: a study using intra–atrial dynamic electrocardiographic monitoring] Benedini G, et al. **Cardiologia** 1989 Sep; 34(9):769–75 (Eng. Abstr.) (Ita)
[Detection of late potentials on the signal averaged body surface ECG using X, Y, Z and anterior chest leads] Nakai K, et al. **J Cardiol** 1988 Dec;18(4):1139–48 (Eng. Abstr.) (Jpn)
[Electrocardiogram in pulmonary heart disease—clinical evaluation of right chest leads] Fukunaga Y, et al. **Kokyu To Junkan** 1990 Jun;38(6):565–70 (Eng. Abstr.) (Jpn)
[Analysis of the RR interval in patients with atrial fibrillation using a Lorenz–Plot method] Mizutani M. **Rinsho Byori** 1989 Jun;37(6):723–6 (Jpn)
[Computed analysis of electrocardiogram; its algorithm and practice] Shiina S. **Rinsho Byori** 1990 Jan;Spec No 83:143–51 (Jpn)
[Mathematical foundation for biophysical methods in fetal monitoring. I. Fetal electrocardiography] Moczko J, et al. **Ginekol Pol** 1989 Jun;60(6):334–42 (6 ref.) (Eng. Abstr.) (Pol)
[A map for recording of 15 precordial leads improves the sensitivity of the exercise test] Chamiec T, et al. **Kardiol Pol** 1989;32(4):202–6 (Eng. Abstr.) (Pol)
[Precordial mapping of R, S and Q waves in healthy children and in those with heart defects and cardiomyopathies] Godlewska–Piórkowska A. **Kardiol Pol** 1989;32(2):97–106 (Eng. Abstr.) (Pol)
[Cardiac trans–esophageal pacing: significance of systemic damping of artifacts from stimulating impulses for ECG trace recordings recorded from a pacing trans–esophageal electrode. III] Prochaczek F, et al. **Kardiol Pol** 1989; 32(7–9):372–9 (Eng. Abstr.) (Pol)
[A new method of topical detection of accessory conduction pathways in patients with Wolff–Parkinson–White syndrome] Bokeriia LA, et al. **Kardiologiia** 1989 Jul; 29(7):49–53 (Eng. Abstr.) (Rus)
[Diagnostic potential of the first ECG derivative in assessing the coronary artery status of patients with ischemic heart disease] Volkova EG, et al. **Ter Arkh** 1990;62(4):35–8 (Eng. Abstr.) (Rus)
[The differentiated electrocardiogram in the diagnosis of acute forms of ischemic heart disease] Malinovskaia IZ, et al. **Vrach Delo** 1990 Mar;(3):50–2 (Eng. Abstr.) (Rus)
[Usefulness of the thoracic circle in localizing the pre–excitation zone in Wolff–Parkinson–White syndrome] Iturralde P, et al. **Arch Inst Cardiol Mex** 1989 Nov–Dec; 59(6):557–65 (Eng. Abstr.) (Spa)
[Usefulness of esophageal derivation in monitoring the perioperative electrocardiogram (letter)] Jaume Mas J, et al. **Rev Esp Anestesiol Reanim** 1990 May–Jun;37(3):185 (Spa)

NURSING

Early recognition of critical stenosis high in the left anterior descending coronary artery. Paul SC, et al. **Heart Lung** 1990 Jan;19(1):27–30

RADIATION EFFECTS

[The effective and ineffective levels of the joint action of 239Pu and gamma radiation according to the change in the ECG indices of dogs] Kalmykova ZI, et al. **Radiobiologiia** 1990 Jan–Feb;30(1):98–102 (Eng. Abstr.) (Rus)

STANDARDS

Electrocardiographic distortions caused by inadequate high–frequency response of direct–writing electrocardiographs. Berson AS, et al. **Am Heart J** 1967 Aug;74(2):208–18
Recommendations for standardization and specifications in automated electrocardiography: bandwidth and digital signal processing. A report for health professionals by an ad hoc writing group of the Committee on Electrocardiography and Cardiac Electrophysiology of the Council on Clinical Cardiology, American Heart Association. Bailey JJ, et al. **Circulation** 1990 Feb; 81(2):730–9
The benefits of computerized ECG. Nordgren L. **Clin Physiol** 1990 May;10(3):279–80
Electrocardiographic criteria of left atrial enlargement: do they correlate with atrial size? Pahlow B, et al. **J Am Osteopath Assoc** 1989 Dec;89(12):1543–6
Computerized electrocardiographic interpretation: an analysis of clinical utility in 5110 electrocardiograms. Thomson A, et al. **Med J Aust** 1989 Oct 16;151(8):428–30
The human face of computers: necessary at present [editorial] Tonkin A. **Med J Aust** 1989 Oct 16;151(8):425

STATISTICS & NUMERICAL DATA

The aging electrocardiogram. Jones J, et al. **Am J Emerg Med** 1990 May;8(3):240–5 (27 ref.)
Multivariate methods and ECG analysis. Pizzuti GP. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):27–36
Improving the predictive ability of the signal–averaged electrocardiogram with a linear logistic model incorporating clinical variables. Vatterott PJ, et al. **Circulation** 1990 Mar;81(3):797–804

TRENDS

Evolution of the clinical electrocardiogram. Fisch C. **J Am Coll Cardiol** 1989 Nov 1;14(5):1127–38 (42 ref.)

UTILIZATION

General practitioners' use of electrocardiography: relevance to early thrombolytic treatment. Colquhoun MC. **BMJ** 1989 Aug 12;299(6696):433
Practice guidelines to reduce testing in the hospital. Wachtel TJ, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):335–41
Open access exercise electrocardiography: does it improve the management of cardiovascular disease in the community? Paul VE, et al. **J R Soc Med** 1990 Mar; 83(3):143–5

VETERINARY

Echocardiographic and electrocardiographic study of the normal kangaroo heart. Sugishita Y, et al. **Aust N Z J Med** 1990 Apr;20(2):160–5
Digital processing of equine exercise electrocardiograms. Hartley JW, et al. **Biomed Sci Instrum** 1990;26:11–5
Questions about ECG interpretations [letter] **J Am Vet Med Assoc** 1990 Jul 15;197(2):169–70
ECG of the month. Premature ventricular complexes in an anesthetized colt. Cornick JL, et al. **J Am Vet Med Assoc** 1990 Feb 1;196(3):420–2
Questions ECG interpretation [letter; comment] Frazer RL. **J Am Vet Med Assoc** 1990 Feb 15;196(4):521 Comment on: J Am Vet Med Assoc 1989 Nov 1;195(9):1222–3.
ECG of the month. Goodwin JK. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1044–5
ECG of the month. Paroxysmal ventricular tachycardia in a horse with diarrhea [see comments] Hondalus MK, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1222–3 Comment in: J Am Vet Med Assoc 1990 Feb 15;196(4):521.
ECG of the month. Maxson AD, et al. **J Am Vet Med Assoc** 1990 Aug 1;197(3):342–3
ECG of the month. Quagliariello RM, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):60–1
ECG of the month. Sackman JE, et al. **J Am Vet Med Assoc** 1990 May 1;196(9):1392–3
ECG of the month. Urinary bladder rupture in a dog causing hyperkalemia. Syvrud KP. **J Am Vet Med Assoc** 1989 Oct 1;195(7):932–3
Electrocardiographical findings of WBN/Kob rats. Machida K, et al. **Lab Anim** 1990 Jul;24(3):288–91
Technique for cardiovascular monitoring in awake tethered rats. Parker GW, et al. **Lab Anim Sci** 1989 Sep;39(5):463–7
Relationship between plasmatic concentrations of K, Na and Ca, and ECG from foals during postnatal phase. Escabias MI, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):257–63

ELECTROCARDIOGRAPHY, AMBULATORY

Exercise–induced T wave normalization is not specific for myocardial ischemia detected by perfusion scintigraphy. Frais MA, et al. **Am Heart J** 1990 May;119(5):1225–9
Crosstalk inhibition of a dual–chamber pacemaker diagnosed by ambulatory electrocardiography. Janosik DL, et al. **Am Heart J** 1990 Aug;120(2):435–8
Interrelationship of variable coupling, multiformity and repetitive forms: implications for classification of ventricular arrhythmias. Lowery M, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):301–7
Ventricular couplets in the young: prognosis related to underlying substrate. Paul T, et al. **Am Heart J** 1990 Mar; 119(3 Pt 1):577–82
Ambulatory electrocardiographic findings in out–of–hospital cardiac arrest secondary to coronary artery disease. Dubner SJ, et al. **Am J Cardiol** 1989 Oct 1;64(12):801–6
Diagnostic value of ambulatory Holter monitoring for the detection of coronary artery disease in patients with variable threshold angina pectoris. Hoberg E, et al. **Am J Cardiol** 1990 May 1;65(16):1078–83
The sleep electrocardiogram at extreme altitudes (Operation Everest II). Malconian M, et al. **Am J Cardiol** 1990 Apr 15;65(15):1014–20
Frequency and importance of silent myocardial ischemia identified with ambulatory electrocardiographic monitoring in the early in–hospital period after acute myocardial infarction. Ouyang P, et al. **Am J Cardiol** 1990 Feb 1;65(5):267–70
Clinical significance of silent ischemia in unstable angina pectoris. Wilcox I, et al. **Am J Cardiol** 1990 Jun 1; 65(20):1313–6
Holter electrocardiogram monitoring in nephrotic patients during methylprednisolone pulse therapy. Fujimoto S, et al. **Am J Nephrol** 1990;10(3):231–6
Dysvascular amputee rehabilitation. The role of continuous noninvasive cardiovascular monitoring during physical therapy. Roth EJ, et al. **Am J Phys Med Rehabil** 1990 Feb; 69(1):16–22
Usefulness of echocardiographic left ventricular hypertrophy and silent ischemia in predicting new cardiac events in elderly patients with systemic hypertension or coronary artery disease. Aronow WS, et al. **Angiology** 1990 Mar; 41(3):189–93
Ambulatory electrocardiographic (Holter) monitoring. American College of Physicians [comment] **Ann Intern Med** 1990 Jul 1;113(1):77–9 Comment on: Ann Intern Med 1990 Jul 1;113(1):53–68.
Use of ambulatory electrocardiographic (Holter) monitoring [see comments] DiMarco JP, et al. **Ann Intern Med** 1990 Jul 1;113(1):53–68 (139 ref.) Comment in: Ann Intern Med 1990 Jul 1;113(1):77–9.
The duration of Holter monitoring in patients with syncope. Is 24 hours enough? Bass EB, et al. **Arch Intern Med** 1990 May;150(5):1073–8
The importance of the electrocardiogram in ambulatory electroencephalographic recordings. Nousiainen U, et al.

Arch Neurol 1989 Nov;46(11):1171–4
Ambulatory electrocardiography in the elderly: an audit. Rana MZ, et al. Br J Clin Pract 1989 Sep;43(9):341–2
Cardiac arrhythmias during theophylline toxicity. A prospective continuous electrocardiographic study. Sessler CN, et al. Chest 1990 Sep;98(3):672–8
Guidelines for ambulatory electrocardiography [letter] David D. Circulation 1989 Oct;80(4):1098
Pathophysiology of silent myocardial ischemia during daily life. Hemodynamic evaluation by simultaneous electrocardiographic and blood pressure monitoring [see comments] Deedwania PC, et al. Circulation 1990 Oct; 82(4):1296–304 Comment in: Circulation 1990 Oct;82(4):1528–30.
ACC/AHA task force report: guidelines for ambulatory electrocardiography [letter] Lohman JE. Circulation 1989 Oct;80(4):1098–100
Unraveling the mechanisms of ambulatory ischemia. How and why [comment] Stone PH. Circulation 1990 Oct; 82(4):1528–30 Comment on: Circulation 1990 Oct;82(4):1296–304.
Infants with apparent life threatening events. Cardiac rhythm and conduction. Woolf PK, et al. Clin Pediatr (Phila) 1989 Nov;28(11):517–20
"Silent" myocardial ischaemia in essential hypertension. Yurenev AP, et al. Cor Vasa 1990;32(1):13–8
Diagnostic and prognostic values and limitations of Holter monitoring. Coumel P. Eur Heart J 1989 Sep;10 Suppl E:19–30 (25 ref.)
Holter monitoring after PTCA. Hackett D, et al. Eur Heart J 1989 Dec;10 Suppl G:33–5 (35 ref.)
Ventricular arrhythmias: control of therapy by Holter monitoring. Horowitz LN. Eur Heart J 1989 Sep;10 Suppl E:53–60 (36 ref.)
Heart rate variability in relation to prognosis after myocardial infarction: selection of optimal processing techniques. Malik M, et al. Eur Heart J 1989 Dec;10(12):1060–74
Minimal heart rates and longest pauses in healthy adult subjects on two occasions eight years apart. Mølgaard H, et al. Eur Heart J 1989 Aug;10(8):758–64
Ambulatory ST segment monitoring in the assessment of patients following PTCA. Mulcahy D, et al. Eur Heart J 1989 Dec;10 Suppl G:30–2 (22 ref.)
Transient myocardial ischaemia: a multivariate analysis on clinical, angiographic and ergometric variables. Pandullo C, et al. Eur Heart J 1990 Feb;11(2):156–61
Cardiac rate and hyperkinetic rhythm disorders in healthy elderly subjects: evaluation by ambulatory electrocardiographic monitoring. Ribera JM, et al. Gerontology 1989;35(2–3):158–64
Noninvasive diagnosis of ventricular arrhythmias by means of ambulatory-ECG monitoring. Candinas RA, et al. Herz 1990 Feb;15(1):1–10 (52 ref.)
Extraction of physiologic cardiac data from Holter recordings. Moss AJ. Isr J Med Sci 1989 Sep;25(9):513–6
Role of ambulatory ECG monitoring in estimating cardiac risk in vascular surgery patients. Raby KE, et al. Isr J Med Sci 1989 Sep;25(9):516–20
Ischemia in the ambulatory setting—the total ischemic burden: relation to exercise testing and investigative and therapeutic implications [see comments] Mulcahy D, et al. J Am Coll Cardiol 1989 Nov 1;14(5):1166–72 Comment in: J Am Coll Cardiol 1989 Nov 1;14(5):1173–4.
Research circumvents defensive medicine [letter; comment] Cheng TO. J Am Geriatr Soc 1989 Nov;37(11):1101 Comment on: J Am Geriatr Soc 1989 May;37(5):430–4.
Ventricular ectopy during prolonged ambulatory electrocardiographic monitoring in elderly hypertensive subjects. Kelleher PW, et al. J Am Geriatr Soc 1990 Mar; 38(3):201–4
Prognostic significance of pre discharge one hour electrocardiographic monitoring in patients recovering from acute myocardial infarction. Garg KC, et al. J Assoc Physicians India 1989 Dec;37(12):767–9
Sequence of mechanical and electrical changes during myocardial ischemia: assessment by an ambulatory left ventricular function monitor. Imai K, et al. J Cardiol 1988 Dec;18(4):955–65
Should we treat silent ischaemia? Fox KM. J Cardiovasc Pharmacol 1987;10 Suppl 2:S34–6; discussion S37
EKG changes in relationship to the chemical peel. Price NM. J Dermatol Surg Oncol 1990 Jan;16(1):37–42
Arrhythmia analysis by successive RR plotting. Anan T, et al. J Electrocardiol 1990 Jul;23(3):243–8
Effects of supernormal capture on directly measured nonmodulated parasystolic cycles. Castellanos A, et al. J Electrocardiol 1989 Oct;22(4):293–6
Electrocardiographic monitoring and coronary occlusion. Fingerprint pattern analysis in dimensions of space, time, and mind. Krucoff MW. J Electrocardiol 1989;22 Suppl:232–7
Seasonal variation in sudden cardiac death after experimental myocardial infarction. Scherlag BJ, et al. J Electrocardiol 1990 Jul;23(3):223–30
Signal-averaged electrocardiography directly from Holter monitor tapes. Steinberg JS, et al. J Electrocardiol 1989; 22 Suppl:25–32
Holter monitoring in conscious dogs. Assessment of arrhythmias occurring during ischemia and in the early reperfusion phase. Krumpl G, et al. J Pharmacol Methods 1989 Sep;22(2):77–91
Holter monitoring in conscious dogs. Assessment of arrhythmias occurring in the late reperfusion phase after coronary occlusion. Krumpl G, et al. J Pharmacol Methods 1989 Sep;22(2):93–102
Silent myocardial ischemia during Holter monitoring in ischemic heart disease. Kohya T, et al. Jpn Circ J 1989 Nov;53(11):1399–406
New algorithm for QT interval analysis in 24-hour Holter ECG: performance and applications. Laguna P, et al. Med Biol Eng Comput 1990 Jan;28(1):67–73
Clinical assessment of the right ventricle anterior papillary muscle extrasystoles with Holter recordings. Lazzari JO, et al. PACE 1990 Mar;13(3):275–84
Clinical utility of telemetered intracardiac electrograms in diagnosing a design dependent lead malfunction. Sarmiento JJ. PACE 1990 Feb;13(2):188–95
Ambulatory monitoring. Raftery E. Practitioner 1989 Mar 8;233(1464):348, 350–1
Ambulatory monitoring to assess real-life cardiovascular reactivity in Type A and Type B subjects. Van Egeren LF, et al. Psychosom Med 1990 May-Jun;52(3):297–306
[A preliminary report on silent myocardial ischemia detected using ambulatory electrocardiogram monitoring] Feng JZ, et al. Chung Hua Nei Ko Tsa Chih 1989 Jul;28(7):390–3, 442 (Eng. Abstr.) (Chi)
[Comparative study of the ECG exercise test and ambulatory ECG monitoring after recovery from acute myocardial infarction] Wang X, et al. Chung Hua Nei Ko Tsa Chih 1989 Mar;28(3):167–70, 187–8 (Eng. Abstr.) (Chi)
[Long-term study of propafenone in severe ventricular extrasystole in elderly subjects] Escande M, et al. Ann Cardiol Angeiol (Paris) 1989 Nov;38(9):555–60 (Eng. Abstr.) (Fre)
[Value of continuous monitoring of the electrocardiogram in asymptomatic subjects] Brunel P, et al. Arch Mal Coeur 1989 Nov;82(11):1819–23 (Eng. Abstr.) (Fre)
[Preoperative risk assessment: long-term electrocardiography for directed diagnosis of arrhythmias] Metzler H, et al. Anaesthesist 1990 Feb;39(2):77–82 (Eng. Abstr.) (Ger)
[A heart rate data port. A digital system for mobile heart rate storage] Tiesler G. Biomed Tech (Berlin) 1989;34 Suppl:221–2 (Ger)
[The diagnosis of silent myocardial ischemia. The problems of false-positive findings in the exercise ECG and long-term ECG] von Arnim T. Fortschr Med 1990 May 10;108(14):267–9 (Eng. Abstr.) (Ger)
[Noninvasive versus invasive procedure in patients with life threatening tachyarrhythmias] Andresen D. Herz 1990 Feb; 15(1):42–8 (43 ref.) (Eng. Abstr.) (Ger)
[Nocturnal bradycardic arrhythmia in sleep related respiratory disorder—is cardiac pacemaker therapy indicated?] Köhler U, et al. Internist (Berl) 1989 Dec; 30(12):819–24 (Ger)
[Cardiac arrhythmia in patients with chronic obstructive lung disease and therapy] Klitzke AK, et al. Pneumologie 1990 Feb;44 Suppl 1:536–7 (Eng. Abstr.) (Ger)
[Silent ischemia in long-term ECG in the early post-infarct period] Nürnberg M, et al. Wien Klin Wochenschr 1989 Sep 15;101(17):580–3 (Eng. Abstr.) (Ger)
[Expert assessment of patients with cardiac arrhythmia] Wunderlich E, et al. Z Arztl Fortbild (Jena) 1990; 84(3):109–12 (10 ref.) (Ger)
[Combination therapy with slow release isosorbide nitrate and diltiazem in silent myocardial ischemia] Brisse B, et al. Z Kardiol 1989;78 Suppl 2:175–8; discussion 188–9 (Eng. Abstr.) (Ger)
[Do thrombocyte aggregation inhibitors modify silent episodes of unstable angina pectoris in combined anti-angina therapy?] Eber B, et al. Z Kardiol 1989;78 Suppl 2:150–4; discussion 159 (Eng. Abstr.) (Ger)
[Control of the effectiveness of nitrate therapy with long-term ECG based on spontaneous ST segment changes] Osterspey A, et al. Z Kardiol 1989;78 Suppl 2:155–8; discussion 159 (Eng. Abstr.) (Ger)
[Diagnosis of cardiac causes of cerebral embolism: a contribution to 2D echocardiography and long-term ECG] Richardt G, et al. Z Kardiol 1989 Sep;78(9):598–601 (Eng. Abstr.) (Ger)
[Silent myocardial ischemia] Roskamm H, et al. Z Kardiol 1989;78 Suppl 2:145–9; discussion 159 (29 ref.) (Eng. Abstr.) (Ger)
[Ventricular arrhythmia in silent myocardial ischemia—diagnosis and clinical relevance] Zehender M, et al. Z Kardiol 1989;78 Suppl 5:55–62 (67 ref.) (Eng. Abstr.) (Ger)
[Paroxysmal atrial fibrillation: study of the pattern of onset using dynamic electrocardiography] Balducelli M, et al. Cardiologia 1989 Aug;34(8):713–20 (Eng. Abstr.) (Ita)
[Stroke: Holter monitoring in 15 hypertensive patients] Pothen P, et al. Cardiologia 1990 Jan;35(1):69–72 (Eng. Abstr.) (Ita)
[Advantages and disadvantages of Holter monitoring compared to the ergometric test in the evaluation of stress ischemia] Fazzini PF, et al. G Ital Cardiol 1989 Jun; 19(6):541–7 (39 ref.) (Ita)
[Long-term variability in unsustained ventricular arrhythmias: pharmacologic and pro-arrhythmic effect] Gaita F, et al. G Ital Cardiol 1989 Oct;19(10):908–12 (Eng. Abstr.) (Ita)
[Characteristics of non-sustained ventricular tachycardia found during dynamic ECG in patients with recent myocardial infarction] Lanza GA, et al. G Ital Cardiol 1989 Jul;19(7):585–90 (Eng. Abstr.) (Ita)
[Diagnostic usefulness of Holter monitoring in pediatric fainting and syncope] Drago F, et al. Minerva Pediatr 1989 May;41(5):235–9 (Eng. Abstr.) (Ita)
[Study of lethal arrhythmias using Holter ECG monitoring] Hata Y. Fukuoka Igaku Zasshi 1990 Apr;81(4):170–85 (Eng. Abstr.) (Jpn)
[Clinical investigation on childhood HCM; long-term follow-up study with special reference to electrophysiology, histopathology by endomyocardial biopsy and ambulatory and exercise electrocardiography] Yonesaka S, et al. Kokyu To Junkan 1990 Jul;38(7):677–82 (Eng. Abstr.) (Jpn)
[Application of Holter electrocardiography to exercise testing for the group examination of school children: comparison between obese and normal children] Nagayama K, et al. Nippon Eiseigaku Zasshi 1989 Dec;44(5):962–76 (Eng. Abstr.) (Jpn)
[Quantitative analysis of background activity using ambulatory EEG monitoring system] Konishi T, et al. Rinsho Byori 1990 Jun;38(6):717–21 (Eng. Abstr.) (Jpn)
[Value of Holter monitoring and the electrocardiographic exercise test in the diagnosis of silent ischemia after myocardial infarction] Dąbrowski A, et al. Kardiol Pol 1989;32(10–12):427–33 (Eng. Abstr.) (Pol)
[Late ventricular potentials—a new risk factor for cardiac arrhythmias in recent myocardial infarction] Kraska T, et al. Pol Tyg Lek 1990 Jan 1–15;45(1–3):13–6 (Eng. Abstr.) (Pol)
[Silent myocardial ischemia: 3 years' experience with Holter] de Pádua F, et al. Acta Med Port 1990 Jan-Feb;3(1):15–20 (Eng. Abstr.) (Por)
[Rhythm profiles using Holter electrocardiography in sinoatrial dysfunction and conduction disturbances] Cabral FP, et al. Rev Port Cardiol 1988 Mar-Apr;7(2):143–7 (Por)
[Rhythm profile in patients with psoriatic arthritis] Carvalho M, et al. Rev Port Cardiol 1990 Apr;9(4):311–7 (Eng. Abstr.) (Por)
[Silent ischemia in patients with previous myocardial infarct. Correlation of Holter and coronarography] Carvalho M, et al. Rev Port Cardiol 1989 Dec;8(12):843–7 (Eng. Abstr.) (Por)
[Comparison of Holter electrocardiography and thallium 201 scintigraphy in the detection of myocardial ischemia] Correia MJ, et al. Rev Port Cardiol 1989 Feb;8(2):95–101 (Eng. Abstr.) (Por)
[Difficulties in the diagnosis of silent myocardial ischemia using continuous ambulatory electrocardiographic monitoring—the Holter method] de Azevedo SG. Rev Port Cardiol 1989 Feb;8(2):89–92 (30 ref.) (Eng. Abstr.) (Por)
[Role of continuous ambulatory electrocardiographic monitoring in patients after acute myocardial infarct] de Azevedo SG. Rev Port Cardiol 1988 Mar-Apr;7(2):158–61 (Eng. Abstr.) (Por)
[Holter electrocardiography in ischemic cardiopathy. Comparison with the exercise test] Guimarães H, et al. Rev Port Cardiol 1988 Mar-Apr;7(2):171–5 (Eng. Abstr.) (Por)
[Holter ECG in evaluating myocardial ischemia. Validation using the exercise test] Longo A, et al. Rev Port Cardiol 1989 Feb;8(2):105–9 (Eng. Abstr.) (Por)
[Comparison of Holter electrocardiography and the exercise test] Soares R, et al. Rev Port Cardiol 1988 Mar-Apr; 7(2):167–71 (Eng. Abstr.) (Por)
[An elevated pain sensitivity threshold in patients with IHD and predominantly painless ST-segment decreases during Holter ECG monitoring] Kosmachev AA, et al. Biull Vsesoluzaogo Kardiol Nauchn Tsentra AMN SSSR 1989;12(2):101–2 (Rus)
[Value of long-term ECG monitoring of middle-aged and elderly patients with ischemic heart disease in a cardiological sanatorium] Bykov II, et al. Kardiologiia 1989 Jul;29(7):103–4 (Rus)
[Value of 24-hour ECG Holter monitoring in the evaluation of painless episodes of ST segment depression in patients with ischemic heart disease] Vezhinska B, et al. Kardiologiia 1990 Apr;30(4):57–60 (Eng. Abstr.) (Rus)
[Evaluation of the efficacy of a course of verapamil and nifedipine in patients with stable stenocardia by daily monitoring of the electrocardiogram] Metelitsa VI, et al. Ter Arkh 1989;61(9):65–8 (Eng. Abstr.) (Rus)
[Holter monitoring in the evaluation of myocardial ischemia] Ilić S, et al. Srp Arh Celok Lek 1987 Jul;115(7):781–8 (Scc)
[Evaluation and recording of long-term ambulatory Holter electrocardiographic monitoring] Scheidová L, et al. Vnitr Lek 1990 Mar;36(3):279–86 (Eng. Abstr.) (Slo)
[Silent myocardial ischemia during Holter monitoring in patients with diabetes mellitus] Marín Huerta E, et al. Rev Esp Cardiol 1989 Oct;42(8):519–29 (Eng. Abstr.) (Spa)
[Validation of the Holter method in detecting myocardial ischemia using an exercise test simultaneously] Rayo I, et al. Rev Esp Cardiol 1990 May;43(5):316–22 (Eng. Abstr.) (Spa)

ADVERSE EFFECTS

[Effect of small direct electric currents of longer duration

in an animal experiment model] Roth M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:132–3 (Ger)

CLASSIFICATION

[Value and use of long-term ECG (Holter monitoring) in ventricular arrhythmias] Assmann I, et al. **Z Arztl Fortbild (Jena)** 1990;84(9):431–8 (27 ref.) (Ger)

DRUG EFFECTS

Electrocardiographic effects of amitriptyline in therapeutic doses on 24-hr monitoring (Holter) with correlation to plasma levels. Sirota P, et al. **Biol Psychistry** 1990 May 1;27(9):1053–6

High dose caffeine and ventricular arrhythmias [see comments] Myers MG, et al. **Can J Cardiol** 1990 Apr; 6(3):95–8 Comment in: Can J Cardiol 1990 Apr;6(3):93–4.

[Antiarrhythmic effect and electrophysiologic study of berberine] Zhao XZ, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Jun; 17(3):159–61 (Chi)

[Spontaneous variability of ventricular arrhythmias in follow-up of anti-arrhythmia therapy] Schmidt G, et al. **Herz** 1990 Feb;15(1):11–20 (24 ref.) (Eng. Abstr.) (Ger)

INSTRUMENTATION

Detection and continuous monitoring of intracardiac low-level potentials from the surface of the Langendorff-perfused heart. Hofer E, et al. **Basic Res Cardiol** 1990 Mar–Apr;85(2):198–208

Phonocardiographic monitoring using a special endotracheal tube. Doyle DJ, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S105

Accuracy of the ambulatory ECG monitoring system Cardio-Data Mk4 in detecting exercise-induced myocardial ischaemia [published erratum appears in Clin Phys Physiol Meas 1989 Nov;10(4):372] Brüggemann T, et al. **Clin Phys Physiol Meas** 1989 Aug;10(3):253–8

Alarm lockup on ZMI PD 1200 defibrillator/monitors. **Health Devices** 1990 Aug;19(8):293–4

Ambulatory ECG monitors. **Health Devices** 1989 Sep; 18(9):295–321

Real-time cardiac monitors. Handelsman H. **Health Technol Assess Rep** 1989;(4):1–9 (27 ref.)

Evaluation of symptomatic vs. silent myocardial ischemia using the ambulatory left ventricular function monitor (VEST). Ishibashi M, et al. **Isr J Med Sci** 1989 Sep; 25(9):532–8 (29 ref.)

A dual-sensor diagnostic pacemaker for ambulatory cardiac monitoring. Shaw DB, et al. **J Biomed Eng** 1990 Jul; 12(4):351–7

[Effect of heart rate on ST segment analysis in long-term ECG] Brüggemann T, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:38–9 (Ger)

[Long-term ECG monitoring in the diagnosis of re-occlusion in infarct patients] Engel D, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:32–3 (Ger)

[A procedure for immediate calculation of the transmission function of long-term ECG systems from a test signal] Frey AW, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:42–3 (Ger)

[Multivariable long-term monitoring of cerebral and cardiovascular values using a personal computer] Steller E, et al. **Biomed Tech (Berlin)** 1990 May;35(5):90–7 (Eng. Abstr.) (Ger)

[Analysis of the course of heart rate] Tiesler G. **Biomed Tech (Berlin)** 1989;34 Suppl:36–7 (Ger)

[A display and analysis system for bioelectrical signals with LCD] Yang YX, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:40–1 (Ger)

[Cardiac arrhythmias in long-term ECG in patients with apparently healthy hearts] Härtwig A, et al. **Z Arztl Fortbild (Jena)** 1990;84(9):427–30 (Ger)

[Signal modification of implanted cardiac pacemakers caused by physical therapy equipment] Jacob C, et al. **Z Arztl Fortbild (Jena)** 1990;84(9):443–7 (Ger)

[Signal modification of implanted cardiac pacemakers by muscle potentials] Jacob C, et al. **Z Arztl Fortbild (Jena)** 1990;84(9):449–52 (Ger)

[Long-term ECG in patients with cardiac pacemakers] Riedel K, et al. **Z Arztl Fortbild (Jena)** 1990;84(9):439–41 (Ger)

[Long-term ECG recording—principles, methods, clinical significance] Witte J, et al. **Z Arztl Fortbild (Jena)** 1990; 84(9):419–25 (29 ref.) (Ger)

[Ventricular arrhythmia and late potentials in patients with hypertrophic cardiomyopathy] Fleischmann C, et al. **Z Kardiol** 1990 Feb;79(2):113–9 (Eng. Abstr.) (Ger)

[Cardiopulmonary stress: control of the function of frequency variable pacemaker systems] Treese N, et al. **Z Kardiol** 1990 Jun;79(6):396–402 (Eng. Abstr.) (Ger)

[Evaluation of a Holter electrocardiography system with real-time analysis] Bordalo e Sá AL, et al. **Rev Port Cardiol** 1988 Mar–Apr;7(2):133–42 (Eng. Abstr.) (Por)

METHODS

Incremental diagnostic yield of loop electrocardiographic recorders in unexplained syncope. Linzer M, et al. **Am J Cardiol** 1990 Jul 15;66(2):214–9

Prognosis in medically stabilized unstable angina: early Holter ST-segment monitoring compared with predischarge exercise thallium tomography. Marmur JD, et al. **Ann Intern Med** 1990 Oct 15;113(8):575–9

Multiple lead monitoring during and after PTCA. Stäblein A, et al. **Eur Heart J** 1989 Dec;10 Suppl G:9–12

Transtelephonic electrocardiographic monitoring for detection and treatment of cardiac arrhythmia. Safe AF, et al. **Postgrad Med J** 1990 Feb;66(772):110–2

Cardiac loop ECG recording: a new noninvasive diagnostic test in recurrent syncope. Cumbee SR, et al. **South Med J** 1990 Jan;83(1):39–43

[Methods of syntactic pattern recognition in detecting specific abnormalities of the ST segment in long-term ECG recordings] Dickhaus H, et al. **Biomed Tech (Berlin)** 1989; 34 Suppl:34–5 (Ger)

[What is the value of high resolution electrocardiography in the identification of patients at risk?] Hombach V, et al. **Herz** 1990 Feb;15(1):28–41 (Eng. Abstr.) (Ger)

[The cardiotachogram in occupational medicine] Willms L. **Z Gesamte Hyg** 1990 May;36(5):262–6 (Eng. Abstr.) (Ger)

STANDARDS

Accuracy of digital Holter monitoring of extent and duration of ischemic episodes compared to analog recording. Silber S, et al. **Am J Cardiol** 1990 Feb 1;65(5):383–8

[Necessity and organization of cardiac monitoring] Katila M. **Duodecim** 1990;106(1):54–9 (26 ref.) (Fin)

[Artifact during Holter ECG monitoring] Makarov LM, et al. **Kardiologiia** 1989 Jul;29(7):100–2 (Rus)

STATISTICS & NUMERICAL DATA

[Holter electrocardiography in Portugal. Analysis of the results from a national survey] Correia MJ, et al. **Rev Port Cardiol** 1988 Mar–Apr;7(2):125–30 (Eng. Abstr.) (Por)

UTILIZATION

Ambulatory electrocardiography: an open-access service for general practitioners. Sprigings DC, et al. **Br J Clin Pract** 1989 Aug;43(8):289–92

ELECTROCARDIOGRAPHY, DYNAMIC see **ELECTROCARDIOGRAPHY, AMBULATORY**

ELECTROCARDIOGRAPHY, HOLTER see **ELECTROCARDIOGRAPHY, AMBULATORY**

ELECTROCAUTERY see **ELECTROCOAGULATION**

ELECTROCHEMISTRY

Electrochemical and thermal studies of some quaternary benzo(c) phenanthridine alkaloids. Lasovský J, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;123:365–75

Simulation of two-electron homogeneous electrocatalysis for steady-state voltammetry at hemispherical microelectrodes. Miaw CL, et al. **Anal Chem** 1990 Feb 1; 62(3):268–73

International Symposium on Electroanalysis in Biochemical, Environmental and Industrial Sciences. Loughborough, UK, 11–14 April, 1989. Proceedings. **Analyst** 1989 Dec; 114(12):1517–705

Fractal dynamics of polarized bioelectrodes. Onaral B, et al. **Ann Biomed Eng** 1990;18(2):151–76

Electrostatic interactions in macromolecules: theory and applications. Sharp KA, et al. **Annu Rev Biophys Biophys Chem** 1990;19:301–32 (134 ref.)

Transformation of Bacillus thuringiensis vegetative cells by electroporation. Masson L, et al. **FEMS Microbiol Lett** 1989 Aug;51(3):273–7

Transformation of Bacillus amyloliquefaciens by electroporation. Vehmaanperä J. **FEMS Microbiol Lett** 1989 Oct 1;52(1–2):165–9

Application of fast cyclic voltammetry to measurement of electrically evoked dopamine overflow from brain slices in vitro. Bull DR, et al. **J Neurosci Methods** 1990 Apr; 32(1):37–44

Automated electrokinetic analysis; description and application in virology and cell biology. Sloyer JL Jr, et al. **J Virol Methods** 1990 May;28(2):207–16

Did membrane electrochemistry precede translation? King CC. **Orig Life Evol Biosph** 1990;20(1):15–25 (23 ref.)

The case for low voltage high resolution scanning electron microscopy of biological samples. Pawley JB, et al. **Scanning Microsc Suppl** 1989;3:163–78 (107 ref.)

Diffuse-double layer at a membrane-aqueous interface measured with x-ray standing waves. Bedzyk MJ, et al. **Science** 1990 Apr 6;248(4951):52–6

INSTRUMENTATION

Fabrication, evaluation, and use of extracellular K+ and H+ ion-selective electrodes. Johnson TA, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1224–31

Electrochemical cells for voltammetry, coulometry, and protein activity assays of small-volume biological samples. Feldman BJ, et al. **Anal Biochem** 1990 Feb 15;185(1):170–5

Voltammetric reduction and determination of hydrogen peroxide at an electrode modified with a film containing palladium and iridium. Cox JA, et al. **Anal Chem** 1989 Oct 1;61(19):2176–8

Microring electrode/optical waveguide: electrochemical characterization and application to electrogenerated chemiluminescence. Kuhn LS, et al. **Anal Chem** 1990 Aug 1;62(15):1631–6

New in vitro analytical approaches for clinical chemistry measurements in critical care. Meyerhoff ME. **Clin Chem** 1990 Aug;36(8 Pt 2):1567–72

Microincubator for voltammetry. Murgaš K, et al. **Gen Physiol Biophys** 1989 Dec;8(6):641–3

Ion-selective microelectrodes suitable for recording rapid changes in extracellular ion concentration. Wen R, et al. **J Neurosci Methods** 1990 Mar;31(3):207–13

The physical state of potassium in frog skeletal muscle studied by ion-sensitive microelectrodes and by electron microscopy: interpretation of seemingly incompatible results. Edelmann L. **Scanning Microsc** 1989 Dec; 3(4):1219–30

In vivo voltammetry—prospects for the next decade. Stamford JA. **Trends Neurosci** 1989 Oct;12(10):407–12

[Use of the electrochemical set ELMA-1 for preparation of sodium hypochlorite solutions in therapeutic and preventive institutions] Iolrish AN, et al. **Med Tekh** 1990 Mar–Apr;(2):36–7 (Eng. Abstr.) (Rus)

METHODS

Measurement of oxidation-reduction midpoint potentials by room temperature electron paramagnetic resonance potentiometry. Kay CJ, et al. **Anal Biochem** 1990 Jan; 184(1):11–5

A fiberoptic cholesterol biosensor with an oxygen optrode as the transducer. Trettnak W, et al. **Anal Biochem** 1990 Jan;184(1):124–7

Proposal for the standardization of the calibration method for the assay of plasma catecholamines. Candito M, et al. **J Chromatogr** 1990 Mar 16;526(1):194–202

Sensitive analysis of plasma physostigmine levels using dual-cell electrochemistry in the redox mode. Knapp S, et al. **J Chromatogr** 1990 Mar 16;526(1):97–107

An improved HPLC-electrochemical detection method for measuring brain levels of 5-S-cysteinyldopamine, 5-S-cysteinyl-3,4-dihydroxyphenylalanine, and 5-S-cysteinyl-3,4-dihydroxyphenylacetic acid. Fornstedt B, et al. **J Neurochem** 1990 Feb;54(2):578–86

A comparison of the distribution of neurotransmitters in brain regions of the rat and guinea-pig using a chemiluminescent method and HPLC with electrochemical detection. Wetherell JR, et al. **J Neurochem** 1989 Nov;53(5):1519–26

[Methodologic aspects of voltammetry] Murgaš K, et al. **Cesk Fysiol** 1989;38(4):309–28 (85 ref.) (Slo)

ELECTROCOAGULATION

Antegrade conduction over a concealed accessory pathway after His bundle catheter ablation. Nzayinambaho K, et al. **Acta Cardiol** 1989;44(5):423–8

Treatment of rhythm disorders by endocardial fulguration. Fontaine G, et al. **Am J Cardiol** 1989 Dec 5;64(20):83J–86J

Morphologic findings after catheter ablation of the atrioventricular junction. Lester WM, et al. **Am J Cardiol** 1989 Nov 1;64(16):1049–51

Electrophysiologic basis of catheter ablation in atrial flutter. Touboul P, et al. **Am J Cardiol** 1989 Dec 5;64(20):79J–82J

Thoracoscopic ablation of blebs in the treatment of recurrent or persistent spontaneous pneumothorax [see comments] Wakabayashi A. **Ann Thorac Surg** 1989 Nov;48(5):651–3 Comment in: Ann Thorac Surg 1990 May;49(5):851.

Experimental radial thermokeratoplasty in rabbits. Feldman ST, et al. **Arch Ophthalmol** 1990 Jul;108(7):997–1000

Electrodissection tonsillectomy. Weimert TA, et al. **Arch Otolaryngol Head Neck Surg** 1990 Feb;116(2):186–8

Long term efficacy of transvenous catheter ablation of the atrioventricular junction for refractory supraventricular tachycardia. Murdock CJ, et al. **Aust N Z J Med** 1989 Oct;19(5):431–5

Electrical ablation of posteroseptal accessory pathways [see comments] Vohra J, et al. **Aust N Z J Med** 1990 Apr; 20(2):135–40 Comment in: Aust N Z J Med 1990 Apr;20(2):105–6, 134.

The efficacy of electrocoagulation diathermy performed under local anaesthesia for the eradication of precancerous lesions of the cervix. Chanen W. **Aust N Z J Obstet Gynaecol** 1989 Aug;29(3 Pt 1):189–92

Evidence against diathermy as a beneficial treatment for human papillomavirus infection of the cervix. Mitchell H, et al. **Aust N Z J Obstet Gynaecol** 1989 Nov;29(4):439–42

Loop diathermy excision [letter] **BMJ** 1990 Aug 11; 301(6747):343

Loop diathermy excision of the cervical transformation zone in patients with abnormal cervical smears. Luesley DM, et al. **BMJ** 1990 Jun 30;300(6741):1690–3

Midazolam and flumazenil in the anaesthetic management of trigeminal nerve thermocoagulation. Harrop-Griffiths AW, et al. **Br J Anaesth** 1990 May;64(5):586–9

The treatment of childhood hydrocephalus by choroid plexus coagulation and artificial cerebrospinal fluid perfusion. Griffith HB, et al. **Br J Neurosurg** 1990;4(2):95–100

The course and outcome of pregnancy after ovarian electrocautery in women with polycystic ovarian syndrome: the influence of body-weight. Gjønnaess H. **Br J Obstet Gynaecol** 1989 Jun;96(6):714–9

Wound infection after abdominal incision with scalpel or diathermy. Johnson CD, et al. **Br J Surg** 1990 Jun;

77(6):626–7
Cryosurgery, electrocautery and the laser [letter; comment] **Chest** 1989 Oct;96(4):959–60 Comment on: Chest 1988 Jul;94(1):15–21.
Catheter ablation of Mahaim fibers with preservation of atrioventricular nodal conduction. Haissaguerre M, et al. **Circulation** 1990 Aug;82(2):418–27
Catheter ablation of the atrial myocardium in human type I atrial flutter [see comments] Saoudi N, et al. **Circulation** 1990 Mar;81(3):762–71 Comment in: Circulation 1990 Mar;81(3):1142–3.
Long-term follow-up of laparoscopic sterilizations by electrocoagulation, the Hulka clip and the tubal ring. Koetsawang S, et al. **Contraception** 1990 Jan;41(1):9–18
Catheter ablation of cardiac arrhythmias. Newman D, et al. **Curr Probl Cardiol** 1989 Mar;14(4):123–64 (166 ref.)
A randomized comparison of infrared photocoagulation with bipolar diathermy for the outpatient treatment of hemorrhoids. Dennison A, et al. **Dis Colon Rectum** 1990 Jan;33(1):32–4
Transcatheter ablation of the sinus node in dogs using high-frequency current. Chorro FJ, et al. **Eur Heart J** 1990 Jan;11(1):82–9
Non-medical therapy of ventricular tachyarrhythmias. Lévy S. **Eur Heart J** 1989 Sep;10 Suppl E:48–52 (15 ref.)
Randomized comparison of Nd YAG laser, heater probe, and no endoscopic therapy for bleeding peptic ulcers. Matthewson K, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1239–44
A controlled study of therapeutic endoscopy for peptic ulcer with non-bleeding visible vessel. Lin HJ, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):241–6
Treatment of external genital warts: a randomised clinical trial comparing podophyllin, cryotherapy, and electrodesiccation. Stone KM, et al. **Genitourin Med** 1990 Feb;66(1):16–9
Heat probe thermocoagulation and pure alcohol injection in massive peptic ulcer haemorrhage: a prospective, randomised controlled trial. Lin HJ, et al. **Gut** 1990 Jul; 31(7):753–7
Electrode catheter ablation of resistant ventricular tachycardia in arrhythmogenic right ventricular dysplasia: experience of 15 patients with a mean follow-up of 45 months. Fontaine G, et al. **Heart Vessels** 1990;5(3):172–87
Radiologic ablation of the gallbladder: an alternative to cholecystectomy in the twenty-first century. Martin EC. **Hepatology** 1990 Jun;11(6):1084–6
Accelerated idioventricular rhythm complicating atrioventricular junction ablation for automatic atrial tachycardia. Goldstein M, et al. **Int J Cardiol** 1989 Oct; 25(1):81–6
Thermal laser-induced stenosis of the common bile duct. An alternative model for experimental research. Vorwerk D, et al. **Invest Radiol** 1989 Oct;24(10):758–61
Treatment of catecholamine-sensitive right ventricular tachycardia by endocardial catheter ablation. Stevenson WG, et al. **J Am Coll Cardiol** 1990 Sep;16(3):752–5
Treatment of Morton's neuroma using percutaneous electrocoagulation [published erratum appears in J Am Podiatr Med Assoc 1990 Mar;80(3):160] Finney W, et al. **J Am Podiatr Med Assoc** 1989 Dec;79(12):615–8
Percutaneous selective thermorhizotomy in the treatment of "essential" trigeminal neuralgia. The importance of lesion selectivity. Miserocchi G, et al. **J Neurosurg Sci** 1989 Apr–Jun;33(2):179–83
Recognition and treatment of persistent omphalomesenteric ligament. A report of two cases. Perry CP. **J Reprod Med** 1990 Jun;35(6):636–8
Postoperative mediastinitis: a comparison of two electrocautery techniques on presternal soft tissues. Nishida H, et al. **J Thorac Cardiovasc Surg** 1990 Jun;99(6):969–76
Catheter and surgical treatment of cardiac arrhythmias. Scheinman M. **JAMA** 1990 Jan 5;263(1):79–82 (45 ref.)
Electrical catheter ablation for drug-refractory sustained ventricular tachycardia with old myocardial infarction—a case report. Takahashi M, et al. **Jpn Circ J** 1990 Feb; 54(2):201–6
Therapeutic endoscopy and bleeding ulcers. **Natl Inst Health Consensus Dev Conf Consensus Statement** 1989 Mar 6–8;7(6):1–7 (0 ref.)
Long-term results of percutaneous retrogasserian thermorhizotomy for "essential" trigeminal neuralgia: considerations in 1000 consecutive patients. Broggi G, et al. **Neurosurgery** 1990 May;26(5):783–6; discussion 786–7
Loop diathermy cone biopsy. Mor-Yosef S, et al. **Obstet Gynecol** 1990 May;75(5):884–6
Transcatheter electrical ablation of accessory pathways in children. Bromberg BI, et al. **PACE** 1989 Nov; 12(11):1787–96
The effect of radiofrequency catheter ablation on permanent pacemakers: an experimental study. Chin MC, et al. **PACE** 1990 Jan;13(1):23–9
Thermal catheter disruption during closed-chest radiofrequency ablation of the atrioventricular conduction system. Frohner KJ, et al. **PACE** 1990 Jun;13(6):719–23
Ablation of a left-sided free-wall accessory pathway by percutaneous catheter application of radiofrequency current in a patient with the Wolff-Parkinson-White syndrome. Kuck KH, et al. **PACE** 1989 Oct;12(10):1681–90
Closed chest radiofrequency ablation of the sinoatrial node in dogs. Sanchis J, et al. **PACE** 1990 Jun;13(6):745–56
Transvenous ablation with high frequency energy for atrioventricular junctional (AV nodal) reentrant tachycardia. Sanjuan R, et al. **PACE** 1989 Oct; 12(10):1631–9
Nonpharmacological therapy of supraventricular arrhythmias: surgery and catheter ablation techniques. Singer I, et al. **PACE** 1990 Aug;13(8):1045–58 (87 ref.)
Successful transcatheter ablation of congenital junctional ectopic tachycardia in a ten-month-old infant using radiofrequency energy. Van Hare GF, et al. **PACE** 1990 Jun;13(6):730–5
Upper limit ventricular stimulation in respiratory rate responsive pacing due to electrocautery. Van Hemel NM, et al. **PACE** 1989 Nov;12(11):1720–3
Sensory and autonomic measurements in idiopathic trigeminal neuralgia before and after radiofrequency thermocoagulation: differentiation from some other causes of facial pain. Hampf G, et al. **Pain** 1990 Mar;40(3):241–8
A simple method of evacuating smoke from wounds [letter] Young VL, et al. **Plast Reconstr Surg** 1989 Nov;84(5):855
Ablation of the cystic duct and gallbladder: clinical observations. Becker CD, et al. **Radiology** 1990 Sep; 176(3):687–90
Gallbladder ablation: need for a better model [letter; comment] Hall RC, et al. **Radiology** 1989 Nov; 173(2):578–80 Comment on: Radiology 1989 Apr;171(1):235–40.
Endoscopic sphincterotomy and endoscopic fulguration in the management of adenoma of the papilla of Vater. Shemesh E, et al. **Surg Gynecol Obstet** 1989 Nov; 169(5):445–8
Endoscopic ureteral occlusion for urinary diversion in patients with lower urinary tract fistulas. Reddy PK, et al. **Urol Clin North Am** 1990 Feb;17(1):103–5
Long-term follow-up of percutaneous radiofrequency sacral rhizotomy. Mulcahy JJ, et al. **Urology** 1990 Jan;35(1):76–7
[Catheter ablation in eight patients with Wolff-Parkinson-White syndrome] Huang DJ, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Apr; 17(2):90–2, 126 (Eng. Abstr.) (Chi)
[Percutaneous radiofrequency thermocoagulation of the semilunar ganglion for treating trigeminal neuralgia. Report of 325 cases] Meng GY. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):86–7, 126 (Eng. Abstr.) (Chi)
[Experience with ablation of the bundle of His using electrical discharge] Lukl J, et al. **Vnitr Lek** 1990 Jan;36(1):37–44 (Eng. Abstr.) (Cze)
[Supraventricular tachycardia treated with percutaneous catheter ablation of the arteriovenous conduction system] Andersen HR, et al. **Ugeskr Laeger** 1990 Jan 8; 152(2):98–100 (Eng. Abstr.) (Dan)
[Fulguration and pre-excitation syndrome. Results in 121 patients] Warin JF, et al. **Ann Cardiol Angeiol (Paris)** 1989 Sep 15;38(7):385–8 (Eng. Abstr.) (Fre)
[Sclero-electro-compressive therapy. Medical treatment of varicose veins of the leg] Doneiger E. **Phlebologie** 1989 Nov–Dec;42(4):617–21 (Eng. Abstr.) (Fre)
[Electro-conization of the cervix uteri] Boulanger JC, et al. **Rev Fr Gynecol Obstet** 1989 Oct;84(10):663–72 (Eng. Abstr.) (Fre)
[Results of electrosurgical vulvectomy with postoperative irradiation of the inguinal lymph nodes in vulvar cancer] Vavra N, et al. **Arch Gynecol Obstet** 1989;245(1–4):525–8 (Eng. Abstr.) (Ger)
[Enzyme liberation after electrical His bundle ablation] Junker L, et al. **Z Gesamte Inn Med** 1990 Apr 15; 45(8):232–4 (Eng. Abstr.) (Ger)
[Behavior of ventricular late potentials following catheter ablation of ventricular tachycardia] Seifert T, et al. **Z Kardiol** 1989 Oct;78(10):647–53 (Eng. Abstr.) (Ger)
[Effectiveness of a topical medical treatment following diathermic coagulation: controlled clinical study] Bianco V, et al. **Ann Ostet Ginecol Med Perinat** 1989 Sep–Oct; 110(5):255–9 (Eng. Abstr.) (Ita)
[Morpho-functional study of the rabbit ovary after cauterization] Formelli G, et al. **Boll Soc Ital Biol Sper** 1989 Dec;65(12):1149–54 (Eng. Abstr.) (Ita)
[Endoscopic treatment of polycystic ovary syndrome. Preliminary data] Marchino GL, et al. **Minerva Ginecol** 1989 Nov;41(11):529–33 (Eng. Abstr.) (Ita)
[The diathermy loop and diathermic coagulation in the ambulatory treatment of intraepithelial cervical neoplasia] Zannoni E, et al. **Minerva Ginecol** 1990 Jan–Feb; 42(1–2):7–9 (Eng. Abstr.) (Ita)
[Transurethral microwave coagulation of bladder cancer in elderly patients] Kigure T, et al. **Hinyokika Kiyo** 1989 May; 35(5):789–93 (Eng. Abstr.) (Jpn)
[Effect of destruction of the lateral septal nucleus on renal function] Kiriliuk ML, et al. **Fiziol Zh** 1990 May–Jun; 36(3):48–52 (Eng. Abstr.) (Rus)
[Endoscopic surgery of pneumothorax] Dotsenko AP, et al. **Grudn Khir** 1989 Jul–Aug;(4):44–7 (Eng. Abstr.) (Rus)
[Selection of the method of surgical treatment of perianal condylomata] Il'ianov VI, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):76–8 (Eng. Abstr.) (Rus)
[Diagnostic and therapeutic tactics in gastric polyps] Kuvshinov IuP, et al. **Khirurgiia (Mosk)** 1990 Apr;(4):44–7 (Eng. Abstr.) (Rus)
[Electrosurgical endoscopic interventions using low-energy laser irradiation] Sinev IuV, et al. **Khirurgiia (Mosk)** 1990 May;(5):141–3 (Rus)
[Current treatment of supraventricular arrhythmia] Shamov IA, et al. **Klin Med (Mosk)** 1989 Aug;67(8):11–5 (40 ref.) (Rus)
[Morphological changes in the nasal mucosa after diathermo-coagulation in chronic hypertrophic rhinitis] Pomukhina AN, et al. **Vestn Otorinolaringol** 1990 Jan–Feb; (1):48–52 (Eng. Abstr.) (Rus)
[Endoscopic electrothermocoagulation of tumors in inoperable cancer of the esophagus and proximal part of the stomach] Kochegarov AA, et al. **Vopr Onkol** 1990; 36(1):72–6 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

An analysis of complications in lateral retinacular release procedures. Small NC. **Arthroscopy** 1989;5(4):282–6
Biophysical and anatomical considerations for safe and efficacious catheter ablation of arrhythmias. Bardy GH, et al. **Clin Cardiol** 1990 Jun;13(6):425–33 (69 ref.)
Ectopic pregnancies due to contralateral fistulas after sterilization by electrocoagulation; case reports. Vanderheyden JS, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Nov;33(2):195–8
Complications of laparoscopic ovarian cauterization [letter; comment] Dabirashrafi H. **Fertil Steril** 1989 Nov; 52(5):878–9 Comment on: Fertil Steril 1989 Feb;51(2):232–6.
How safe is submucosal diathermy? Premachandra DJ, et al. **J Laryngol Otol** 1990 May;104(5):408–9
Some observations on submucous diathermy. Woodhead CJ, et al. **J Laryngol Otol** 1989 Nov;103(11):1047–9
[The adverse effect of catheter ablation on the AV junction in experimental dogs] Yan HC, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Apr; 17(2):93–5, 126–7 (Eng. Abstr.) (Chi)
[Laparoscopic sterilization. Late sequelae of endocoagulation and bipolar electrocoagulation] Blaakaer J. **Ugeskr Laeger** 1989 Sep 4;151(36):2267–9 (Eng. Abstr.) (Dan)
[In vitro study of the effects of high frequency electrical current on cardiac pacemakers] Chauvin M, et al. **Arch Mal Coeur** 1990 Jun;83(7):997–1002 (Eng. Abstr.) (Fre)
[Complications and late results of the treatment of precancerous conditions of the cervix uteri by diathermic conization] Bychkov VI, et al. **Akush Ginekol (Mosk)** 1990 Feb;(2):61–2 (Rus)
[Mechanism of the development of neuroparalytic keratitis] Kniazev GG, et al. **Arkh Anat Gistol Embriol** 1989 Oct; 97(10):37–8 (Eng. Abstr.) (Rus)
[Electrofulguration vs tubal occlusion using silastic rings. Analysis of transoperative complications] Uribe Ramírez LC, et al. **Ginecol Obstet Mex** 1977 Nov;42(253):337–43 (Eng. Abstr.) (Spa)

ECONOMICS

Cost of catheter versus surgical ablation in the Wolff-Parkinson-White syndrome. de Buitleir M, et al. **Am J Cardiol** 1990 Jul 15;66(2):189–92

INSTRUMENTATION

Treatment of cervical intraepithelial neoplasia: experience with the low-voltage diathermy loop. Whiteley PF, et al. **Am J Obstet Gynecol** 1990 May;162(5):1272–7
Bacterial transference during electrodesiccation and electrocoagulation [see comments] Bennett RG, et al. **Arch Dermatol** 1990 Jun;126(6):751–5 Comment in: Arch Dermatol 1990 Jun;126(6):805–8.
Catheter ablation using radiofrequency energy. Borggrefe M, et al. **Clin Cardiol** 1990 Feb;13(2):127–31 (35 ref.)
Palliative treatment with the BICAP of recurrent neoplastic stenosis of the colon-rectum anastomosis [letter] Paterlini A, et al. **Endoscopy** 1990 Mar;22(2):96
Radiofrequency coagulation of ventricular myocardium: improved prediction of lesion size by monitoring catheter tip temperature. Hindricks G, et al. **Eur Heart J** 1989 Nov; 10(11):972–84
Precut papillotomy—a risky technique for experts only [editorial; comment] Cotton PB. **Gastrointest Endosc** 1989 Nov–Dec;35(6):578–9 Comment on: Gastrointest Endosc 1989 Nov–Dec;35(6):499–503.
Palliative therapy of malignant esophageal stricture with the bipolar tumor probe and prosthetic tube. McIntyre AS, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):531–5
Delayed, massive hemorrhage following electrocoagulating biopsy ("hot biopsy") of a diminutive colonic polyp. Quigley EM, et al. **Gastrointest Endosc** 1989 Nov–Dec; 35(6):559–63
Eradication of diminutive polyps: a prospective evaluation of bipolar coagulation versus conventional biopsy removal. Woods A, et al. **Gastrointest Endosc** 1989 Nov–Dec; 35(6):536–40
Electrosurgical units. **Health Devices** 1988 Dec;17(12):363–5
Nonoperative portacaval shunt in swine. Goldman ML, et al. **Invest Radiol** 1990 May;25(5):574–8
In vitro comparison of radiofrequency-heated and laser-heated metal probes for angioplasty. Verdaasdonk RM, et al. **Invest Radiol** 1990 Jun;25(6):686–91
Colonoscopic polypectomy. North Indian experience. Kumar N, et al. **J Assoc Physicians India** 1990 Apr;38(4):272–4
Clinical experience with a new catheter for His bundle ablation. Nzayinambaho K, et al. **J Electrocardiol** 1990 Apr; 23(2):165–9

A miniature, rechargeable, cordless electrocautery for neurosurgery. Schmidt RS, et al. **J Neurosci Methods** 1990 Apr;32(1):71–3

Use of 3F bipolar electrosurgical probe in endoscopic urological procedures. Kramolowsky EV, et al. **J Urol** 1990 Feb;143(2):275–7

Lactate dehydrogenase in laser incisions: a comparative analysis of skin wounds made with steel scalpel, electrocautery, superpulse—continuous wave mode carbon–dioxide lasers, and contact Nd:YAG laser. Hukki J, et al. **Lasers Surg Med** 1989;9(6):589–94

Nasal endoscopic control of epistaxis—a preliminary report. Marcus MJ. **Otolaryngol Head Neck Surg** 1990 Mar; 102(3):273–5

Catheter design for successful fulguration procedure [editorial] Fontaine G. **PACE** 1989 Nov;12(11):1709–11 (23 ref.)

The disposable cautery: a fire hazard [letter] Curtin JW. **Plast Reconstr Surg** 1989 Nov;84(5):853

The possibility of retrogasserian thermocoagulation, glycerol radiculolysis and balloon compression in Meckel's cavity with a single surgical instrumentarium. Vladyka V, et al. **Zentralbl Neurochir** 1989;50(3–4):149–52

[Experimental study of the use of fluid–assisted high–frequency electric current for endoscopic destruction of space–occupying tissue proliferations of the esophagus] Reidenbach HD, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:202–4 **(Ger)**

[Bipolar temperature controlled diathermy of the sclera for controlled refractive change of the cornea] Treumer H, et al. **Fortschr Ophthalmol** 1989;86(6):584–8 (Eng. Abstr.) **(Ger)**

[How I do it. Hemostasis of the nasopharynx] Stoll W. **Laryngorhinootologie** 1989 Oct;68(10):581 **(Ger)**

[Plasma scalpel in pulmonary surgery] Lukomskiĭ GI, et al. **Grud Serdechnososudistaia Khir** 1990;(2):41–5 (Eng. Abstr.) **(Rus)**

METHODS

Effects of multipolar electrode radiofrequency energy delivery on ventricular endocardium. Oeff M, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):599–607

Successful transcatheter ablation of an accessory connection in a child following failed surgery: an ideal case? Oslizlok P, et al. **Am Heart J** 1990 Jun;119(6):1424–6

The management of umbilical granulomas with cryocautery [letter] Sheth SS, et al. **Am J Dis Child** 1990 Feb; 144(2):146–7

Acute open–chest complete heart block by transeptal electrocoagulation. Tonkin JC, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1599–602

Nonsurgical fat removal in cosmetic blepharoplasty: a new technique. Sachs ME, et al. **Ann Plast Surg** 1986 Jun; 16(6):516–20

Thoracoscopic ablation of blebs [letter; comment] Chiu RC. **Ann Thorac Surg** 1990 May;49(5):851 Comment on: Ann Thorac Surg 1989 Nov;48(5):651–3.

Use of the argon beam electrocoagulator for performing pulmonary wedge resections. Rusch VW, et al. **Ann Thorac Surg** 1990 Feb;49(2):287–91

Catheter ablation and other options in patients with accessory pathways [editorial; comment] Tonkin AM. **Aust N Z J Med** 1990 Apr;20(2):105–6, 134 Comment on: Aust N Z J Med 1990 Apr;20(2):135–40.

Intrauterine surgery using electrocautery. Hill DJ, et al. **Aust N Z J Obstet Gynaecol** 1990 May;30(2):145–6 (14 ref.)

Transvenous ablation of atrioventricular conduction with a low energy power source. Rowland E, et al. **Br Heart J** 1989 Nov;62(5):361–6

Large loop excision of the transformation zone (LLETZ). A new method of management for women with cervical intraepithelial neoplasia. Prendiville W, et al. **Br J Obstet Gynaecol** 1989 Sep;96(9):1054–60

Catheter ablation of the atrioventricular junction with radiofrequency energy. Langberg JJ, et al. **Circulation** 1989 Dec;80(6):1527–35

Epiphysiodesis by electrocautery in the rabbit and dog. Rosen MA, et al. **Clin Orthop** 1990 Jul;(256):244–53

Definitive management of acute pilonidal abscess by loop diathermy excision. Shpitz B, et al. **Dis Colon Rectum** 1990 May;33(5):441–2

Smokeless electrocautery tonsillectomy. Johnson CD, et al. **Ear Nose Throat J** 1990 Aug;69(8):562–5

Electrode catheter ablation of resistant ventricular tachycardia in arrhythmogenic right ventricular dysplasia: experience of 13 patients with a mean follow–up of 45 months. Fontaine G, et al. **Eur Heart J** 1989 Sep;10 Suppl D:74–81

Electrical ablation of junctional tachycardias showing a long RP interval. Ward DE, et al. **Eur Heart J** 1989 Aug; 10(8):718–24

Hepatic ablation using radiofrequency electrocautery. McGahan JP, et al. **Invest Radiol** 1990 Mar;25(3):267–70

Controlled thermal injury of bone. Report of a percutaneous technique using radiofrequency electrode and generator. Tillotson CL, et al. **Invest Radiol** 1989 Nov;24(11):888–92

Low energy partial ablation of the atrioventricular node junction in the dog using a suction–ablation catheter. Singer I, et al. **J Am Coll Cardiol** 1990 Jan;15(1):222–30

Blood vessel coagulation for incisional surgery [see comments] Sebben JE. **J Dermatol Surg Oncol** 1989 Oct; 15(10):1050–3 Comment in: J Dermatol Surg Oncol 1990 Jun;16(6):581.

Bipolar diathermy treatment of long saphenous vein varicosities. Griffith CD, et al. **J R Coll Surg Edinb** 1989 Oct;34(5):256–7

Reducing bipolar sterilization failures [letter; comment] Hausner K. **Obstet Gynecol** 1990 Jan;75(1):144–5 Comment on: Obstet Gynecol 1989 Jul;74(1):60–3.

"Rollerball" coagulation of the endometrium. Townsend DE, et al. **Obstet Gynecol** 1990 Aug;76(2):310–3

Comparison of surgical lasers and conventional methods in skin incisions. Schröder T, et al. **Scand J Plast Reconstr Surg Hand Surg** 1989;23(3):187–90

Anastomosis of biliary tissue with high–frequency electrical diathermy. Bass LS, et al. **Surg Endosc** 1990;4(2):94–6

Heat probe thermocoagulation as a substitute for surgical intervention to arrest massive peptic ulcer hemorrhage: an experience in 153 cases. Lin HJ, et al. **Surgery** 1990 Jul; 108(1):18–21

Thermal lesions induced by 480 KHz localized current field in guinea pig and pig liver. Rossi S, et al. **Tumori** 1990 Feb 28;76(1):54–7

[Endoscopic bipolar circumactive electrocoagulation in acute upper gastrointestinal bleeding] Chen ZG, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):526–8, 571 (Eng. Abstr.) **(Chi)**

[Percutaneous radiofrequency coagulation in the treatment of trigeminal neuralgia using a new trigeminal nerve stereoguide] Dong YR. **Chung Hua Wai Ko Tsa Chih** 1990 Feb;28(2):100–1, 127 (Eng. Abstr.) **(Chi)**

[Villous tumors of the rectum. Endoscopic treatment using monopolar coagulation] Van Wymersch T, et al. **Acta Gastroenterol Belg** 1989 Jul–Oct;51(4–5):403–6 (Eng. Abstr.) **(Fre)**

[Fulguration of the bundle of His. An explanation based on 128 consecutive personal cases] Clémenty J. **Ann Cardiol Angeiol (Paris)** 1989 Sep 15;38(7):379–83 (Eng. Abstr.) **(Fre)**

[Treatment of ventricular tachycardia using endocavitary fulguration. 5 years' experience with 53 cases] Frank R, et al. **Ann Cardiol Angeiol (Paris)** 1989 Sep 15;38(7):389–93 (Eng. Abstr.) **(Fre)**

[Fulguration. A new approach in the treatment of heart arrhythmia] Lemery R. **Union Med Can** 1990 Mar–Apr; 119(2):85–7 **(Fre)**

[Experiences with thermorhizotomy of the Luschka nerve in persistent ischialgia following unsuccessful intervertebral disk surgery] de Preux J. **Aktuel Probl Chir Orthop** 1989; 35:124–5 **(Ger)**

[Palliative therapy of rectal cancer by electrocoagulation] Buchmann P, et al. **Chirurg** 1990 Jan;61(1):39–42 (Eng. Abstr.) **(Ger)**

[Histologic and enzyme histochemical studies of the rabbit uterine horn following the use of various methods of coagulation] Riedel HH, et al. **Zentralbl Gynakol** 1990; 112(4):189–205 (Eng. Abstr.) **(Ger)**

[Fulguration of the bundle of His. Description of 3 new cases] Critelli G, et al. **Cardiologia** 1990 Jan;35(1):61–7 (Eng. Abstr.) **(Ita)**

[Selective percutaneous thermocoagulation of the glossopharyngeal nerve in intractable glossopharyngeal neuralgia] Ishiyama T, et al. **Masui** 1990 Feb;39(2):243–7 (Eng. Abstr.) **(Jpn)**

[Comparative results of the past and present surgical treatment of retinal detachment] Stankiewicz A, et al. **Klin Oczna** 1989 Oct–Dec;91(10–12):223–4 (Eng. Abstr.) **(Pol)**

[Diathermic laparoscopic cholecystostomy] Tashkinov VI, et al. **Khirurgiia (Mosk)** 1989 Jul;(7):119–20 **(Rus)**

[Endoscopic electrocoagulation and controlled pharmacological hypotension in the treatment of acute gastrointestinal hemorrhage] Tomashuk IP, et al. **Klin Khir** 1989;(8):49–51 (Eng. Abstr.) **(Rus)**

[Diagnostic and therapeutic thoracoscopy in spontaneous and traumatic pneumothorax] Dotsenko AP, et al. **Vestn Khir** 1990 Mar;144(3):14–7 (Eng. Abstr.) **(Rus)**

[Microdiathermocoagulation in the treatment of herpetic keratitis] Kasparov AA, et al. **Vestn Oftalmol** 1990 Jan–Feb; 106(1):37–41 (Eng. Abstr.) **(Rus)**

[Electrofulguration of a pre–excitation zone by the bundle of Kent] Iturralde P, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):455–61 (Eng. Abstr.) **(Spa)**

STANDARDS

Laparoscopic ovarian diathermy in the management of anovulatory infertility in women with polycystic ovaries: endocrine changes and clinical outcome. Armar NA, et al. **Fertil Steril** 1990 Jan;53(1):45–9

UTILIZATION

Diathermy haemostasis at tonsillectomy: current practice—a survey of U.K. otolaryngologists. Murty GE, et al. **J Laryngol Otol** 1990 Jul;104(7):549–52

VETERINARY

Effects of handling, administration of a local anesthetic, and electrical dehorning on plasma cortisol in Holstein calves. Boandl KE, et al. **J Dairy Sci** 1989 Aug;72(8):2193–7

ELECTROCOCHLEOGRAPHY see **AUDIOMETRY, EVOKED RESPONSE**

ELECTROCONVULSIVE THERAPY

see related

ELECTRONARCOSIS

Acute effect of electroconvulsive therapy on brain perfusion assessed by Tc99m–hexamethylpropyleneamineoxim and single photon emission computed tomography. Bajc M, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):421–6

Electroconvulsive therapy and cerebral computed tomography. A prospective study. Bergsholm P, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):566–72

Treatment of lethal catatonia with electroconvulsive therapy and dantrolene sodium: a case report. Nolen WA, et al. **Acta Psychiatr Scand** 1990 Jul;82(1):90–2

Visuospatial impairment in depression: a controlled ECT study. Rossi A, et al. **Acta Psychiatr Scand** 1990 Mar; 81(3):245–9

Change of Leu–enkephalin– and B–endorphin–like immunoreactivity in the hippocampus after electroconvulsive shock and electroacupuncture. He XP, et al. **Acupunct Electrother Res** 1989;14(2):131–9

Intracardiac thrombi in patients undergoing electroconvulsive therapy. Mensah GA, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):684–5

Electroconvulsive therapy and cyclophosphamide in combination for severe neuropsychiatric lupus with catatonia. Fricchione GL, et al. **Am J Med** 1990 Apr; 88(4):442–3

ECT for Parkinson's disease [editorial] [see comments] Abrams R. **Am J Psychiatry** 1989 Nov;146(11):1391–3 Comment in: Am J Psychiatry 1990 Jul;147(7):952.

ECT as prophylactic treatment for bipolar disorder [letter; comment] Abrams R. **Am J Psychiatry** 1990 Mar; 147(3):373–4 Comment on: Am J Psychiatry 1989 Jul;146(7):840–8.

Use of ECT in Parkinson's disease [letter; comment] Birkett DP. **Am J Psychiatry** 1990 Jul;147(7):952 Comment on: Am J Psychiatry 1989 Nov;146(11):1391–3.

Electroconvulsive therapy of three patients with aortic valve prostheses. Blachly PH, et al. **Am J Psychiatry** 1967 Aug; 124(2):233–6

ECT and Parkinson's disease revisited: a "naturalistic" study. Douyon R, et al. **Am J Psychiatry** 1989 Nov;146(11):1451–5

ECT as an alternative to lithium for preventive treatment of bipolar disorder [letter; comment] Kellner C, et al. **Am J Psychiatry** 1990 Jul;147(7):953 Comment on: Am J Psychiatry 1989 Jul;146(7):840–8.

Please, no more "ECT" [letter] Kellner CH, et al. **Am J Psychiatry** 1990 Aug;147(8):1092–3

Parkinsonism–dystonia syndrome and ECT [letter] Lauterbach EC, et al. **Am J Psychiatry** 1990 Sep; 147(9):1249–50

The prediction of response to electroconvulsive therapy. Mendels J. **Am J Psychiatry** 1967 Aug;124(2):153–9

ECT for a patient with profound mental retardation [letter] Merrill RD. **Am J Psychiatry** 1990 Feb;147(2):256–7

Evidence for less improvement in depression in patients taking benzodiazepines during unilateral ECT. Pettinati HM, et al. **Am J Psychiatry** 1990 Aug;147(8):1029–35

Comparison of propofol and thiopentone as anaesthetic agents for electroconvulsive therapy. Boey WK, et al. **Anaesthesia** 1990 Aug;45(8):623–8

ECG changes with electroconvulsive therapy [letter] Bennett BL, et al. **Anesth Analg** 1990 Mar;70(3):338–9

Transient large upright T–waves during electroconvulsive therapy [letter; comment] Boyd GL, et al. **Anesth Analg** 1990 Apr;70(4):465 Comment on: Anesth Analg 1989 Nov;69(5):677–9.

Anesthetist questions ECT article [letter; comment] Gilbert SB. **AORN J** 1990 Jan;51(1):20, 22 Comment on: AORN J 1989 Oct;50(4):806–12.

Clozapine and electroconvulsive therapy [letter; comment] Fink M. **Arch Gen Psychiatry** 1990 Mar;47(3):290–1 Comment on: Arch Gen Psychiatry 1989 Jul;46(7):672.

Normalization of blunted lymphocyte beta–adrenergic responsivity in melancholic inpatients by a course of electroconvulsive therapy. Mann JJ, et al. **Arch Gen Psychiatry** 1990 May;47(5):461–4

Sources of public prejudice against electro–convulsive therapy. Durham J. **Aust N Z J Psychiatry** 1989 Dec; 23(4):453–60

Prejudice against ECT [letter] Horgan D. **Aust N Z J Psychiatry** 1990 Jun;24(2):157–8

Mechanisms of action of ECT: schizophrenia and schizoaffective disorder. Milstein V, et al. **Biol Psychiatry** 1990 Jun 15;27(12):1282–92

A preliminary magnetic resonance imaging study of ECT–treated depressed patients. Pande AC, et al. **Biol Psychiatry** 1990 Jan 1;27(1):102–4

Fall in free thyroxine after ECT: real effect or an artefact of assay? Scott AI, et al. **Biol Psychiatry** 1990 Apr 1; 27(7):784–6

Effects of bitemporal electrical stimulation on the duration of suxamethonium apnoea in man. Subrahmanyam HS. **Br J Anaesth** 1974 Dec;46(12):934–6

Temporary remission of tardive dystonia following electroconvulsive therapy. Adityanjee, et al. **Br J Psychiatry** 1990 Mar;156:433–5

A study of factors associated with response to electroconvulsive therapy in patients with schizophrenic symptoms. Dodwell D, et al. **Br J Psychiatry** 1989 May; 154:635–9

Prediction of response to electroconvulsive therapy. Preliminary validation of a sign-based typology of depression. Hickie I, et al. **Br J Psychiatry** 1990 Jul; 157:65–71

ECT in old age [letter; comment] Malcolm K, et al. **Br J Psychiatry** 1989 Nov;155:713–4 Comment on: Br J Psychiatry 1989 Aug;155:147–52.

Mania complicating ECT [letter] Sanders RD, et al. **Br J Psychiatry** 1990 Jul;157:153–4

Time course of cerebra; magnetic resonance changes after electroconvulsive therapy. Scott AI, et al. **Br J Psychiatry** 1990 Apr;156:551–3

Which patients will respond to ECT? [letter; comment] Yatham LN, et al. **Br J Psychiatry** 1989 Jun;154:879–80 Comment on: Br J Psychiatry 1989 Jan;154:8–17.

Chronic electroconvulsive shock treatment elicits up-regulation of CRF and AVP mRNA in select populations of neuroendocrine neurons. Herman JP, et al. **Brain Res** 1989 Nov 6;501(2):235–46

Esmolol bolus and infusion attenuates increases in blood pressure and heart rate during electroconvulsive therapy. Kovac AL, et al. **Can J Anaesth** 1990 Jan;37(1):58–62

Effects of ECT on prolactin, LH, FSH and testosterone in males with major depressive illness. Cooper AJ, et al. **Can J Psychiatry** 1989 Nov;34(8):814–7

Electroconvulsive therapy in depression. Persad E. **Can J Psychiatry** 1990 Mar;35(2):175–82 (74 ref.)

A case study: schizophrenia and tactile hallucinations, treated with electroconvulsive therapy. Salama AA, et al. **Can J Psychiatry** 1990 Feb;35(1):86–7

Electroconvulsive therapy and the primary care physician: an update. McCall WV. **Compr Ther** 1990 Feb;16(2):54–60

The effect of ECT on plasma cyclic nucleotides: a simulated ECT controlled study in melancholic patients. Lykouras L, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):343–6

Effect of electroconvulsions on leucocyte counts. Jaju BP, et al. **Indian J Exp Biol** 1990 Apr;28(4):329–32

Electroconvulsive therapy—induced hemodynamic changes unmask unsuspected coronary artery disease. Knos GB, et al. **J Clin Anesth** 1990 Jan–Feb;2(1):37–41

A role for the serotonin system in the mechanism of action of antidepressant treatments: preclinical evidence. Blier P, et al. **J Clin Psychiatry** 1990 Apr;51 Suppl:14–20; discussion 21 (64 ref.)

ECT in a patient with aortic aneurysm. Devanand DP, et al. **J Clin Psychiatry** 1990 Jun;51(6):255–6

Electroconvulsive therapy in a patient with severe tic and major depressive episode. Swerdlow NR, et al. **J Clin Psychiatry** 1990 Jan;51(1):34–5

A study of the clinical efficacy of maintenance ECT. Thienhaus OJ, et al. **J Clin Psychiatry** 1990 Apr;51(4):141–4

The impact of medication resistance and continuation pharmacotherapy on relapse following response to electroconvulsive therapy in major depression. Sackeim HA, et al. **J Clin Psychopharmacol** 1990 Apr;10(2):96–104

Treatment of affective illness in the elderly with drugs and electroconvulsive therapy. Jenike MA. **J Geriatr Psychiatry** 1989;22(1):77–112; discussion 113–20 (100 ref.)

Electroconvulsive therapy emergence agitation and succinylcholine dose. Swartz CM. **J Nerv Ment Dis** 1990 Jul;178(7):455–7

Electroconvulsive treatment: effects on phospholipase C activity and GTP binding activity in rat brain. Nishida A, et al. **J Neural Transm Gen Sect** 1990;81(2):121–30

Effect of repeated electroconvulsive treatment on regional concentrations of tachykinins, neurotensin, vasoactive intestinal polypeptide, neuropeptide Y, and galanin in rat brain. Stenfors C, et al. **J Neurosci Res** 1989 Nov; 24(3):445–50

Acute neurohumoral response to electroconvulsive therapy during pregnancy. A case report. Griffiths EJ, et al. **J Reprod Med** 1989 Nov;34(11):907–11

Electroconvulsive therapy in South Carolina [letter] Keller CH, et al. **J S C Med Assoc** 1990 Jun;86(6):371

How does convulsive therapy work? [see comments] Fink M. **Neuropsychopharmacology** 1990 Apr;3(2):73–82 (74 ref.) Comment in: Neuropsychopharmacology 1990 Apr;3(2):83–7; discussion 97–9. Comment in: Neuropsychopharmacology 1990 Apr;3(2):89–92; discussion 97–9. Comment in: Neuropsychopharmacology 1990 Apr;3(2):93–5; discussion 97–9.

Not only but also? Comments on "How does convulsive therapy work"? [see comments] Nutt D. **Neuropsychopharmacology** 1990 Apr;3(2):93–5; discussion 97–9 Comment in: Neuropsychopharmacology 1990 Apr;3(2):73–82.

ECT: the anticonvulsant connection [see comments] Post RM. **Neuropsychopharmacology** 1990 Apr;3(2):89–92; discussion 97–9 Comment in: Neuropsychopharmacology 1990 Apr;3(2):73–82.

Why we do not know how convulsive therapy works [see comments] Sackeim HA, et al. **Neuropsychopharmacology** 1990 Apr;3(2):83–7; discussion 97–9 Comment in: Neuropsychopharmacology 1990 Apr;3(2):73–82.

Is electroconvulsive therapy safe? Schoen RE. **Postgrad Med** 1990 May 1;87(6):235–9 (23 ref.)

Neuroleptic malignant syndrome: a case for electroconvulsive therapy. Harland CC, et al. **Postgrad Med J** 1990 Jan;66(771):49–51

ECT use in the public sector: California. Kramer BA. **Psychiatr Q** 1990 Summer;61(2):97–103

Medication resistance and clinical response to electroconvulsive therapy. Prudic J, et al. **Psychiatry Res** 1990 Mar;31(3):287–96

Oxytocin and vasopressin responses to ECT [letter] Smith JE, et al. **Psychiatry Res** 1990 May;32(2):201–2

Diminished TSH release after a course of ECT: altered monoamine function or seizure activity? Scott AI, et al. **Psychoneuroendocrinology** 1989;14(6):425–31

Electroconvulsive therapy for a depressed patient with global aphasia [letter] Herrmann N. **Psychosomatics** 1990 Winter; 31(1):115–6

Electroconvulsive therapy and serum potassium. McCleane GJ, et al. **Ulster Med J** 1989 Oct;58(2):172–4

Electroconvulsive therapy use during pregnancy [letter] Kramer BA. **West J Med** 1990 Jan;152(1):77

The enigma of the stigma of ECT: 50 years of myth and misrepresentation. Hay DP, et al. **Wis Med J** 1989 Dec; 88(12):4–10 (31 ref.)

[Role of electroconvulsive therapy in treating schizophrenia] Jiang ZN. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):66–8, 125 (Eng. Abstr.) **(Chi)**

[ATPase activity, endogenous depression, lithotherapy and electroconvulsive therapy] Sikora J, et al. **Cesk Psychiatr** 1989 Dec;85(6):361–7 (Eng. Abstr.) **(Cze)**

[Electroconvulsive therapy of trigeminal neuralgia] Grechko VE, et al. **Zh Nevropatol Psikhiatr** 1990;90(2):109–14 (Eng. Abstr.) **(Rus)**

[Effectiveness of electroconvulsive therapy in the light of current approaches to the treatment of febrile conditions in schizophrenia] Moshchevitin SIu, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):114–21 (Eng. Abstr.) **(Rus)**

[Use of electroconvulsive therapy for breaking the continual course of drug-resistant affective and schizoaffective psychoses] Mosolov SN, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):121–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Treatment of depression in patients with dementia [letter; comment] [see comments] Lam RW. **Am J Psychiatry** 1990 Jan;147(1):130–1 Comment on: Am J Psychiatry 1989 Aug;146(8):1079. Comment in: Am J Psychiatry 1990 Jun;147(6):814.

Do repeated courses of ECT cause brain damage detectable by MRI? [letter; comment] Scott AI, et al. **Am J Psychiatry** 1990 Mar;147(3):371–2 Comment on: Am J Psychiatry 1988 Jun;145(6):701–6.

Esmolol reduces autonomic hypersensitivity and length of seizures induced by electroconvulsive therapy. Howie MB, et al. **Anesth Analg** 1990 Oct;71(4):384–8

T-wave changes associated with electroconvulsive therapy [see comments] Khoury GF, et al. **Anesth Analg** 1989 Nov; 69(5):677–9 Comment in: Anesth Analg 1990 Apr;70(4):465.

A placebo-controlled evaluation of vasopressin for ECT-induced memory impairment. Mattes JA, et al. **Biol Psychiatry** 1990 Feb 1;27(3):289–303

Status epilepticus after electroconvulsive therapy. Scott AI, et al. **Br J Psychiatry** 1989 Jul;155:119–21

Electroconvulsive therapy complicated by insecticide ingestion [letter] Ware MR, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):72–3

Ritanserin, a 5-HT2 receptor antagonist, does not modify ECT-induced prolactin release. Papakostas Y, et al. **Psychopharmacology (Berl)** 1990;100(2):206–8

[Anesthesiologic aspects of narco-curare-electroshock treatment] Hansen CL, et al. **Ugeskr Laeger** 1990 Apr 16; 152(16):1145–9 (30 ref.) (Eng. Abstr.) **(Dan)**

[ECT (electroconvulsive therapy) and memory] Peyré F, et al. **Ann Med Psychol (Paris)** 1989 Aug;147(6):685–90 (36 ref.) **(Fre)**

[Nitroglycerin spray in the prevention of hypertension induced by electroconvulsive therapy] Villalonga A, et al. **Rev Esp Anestesiol Reanim** 1989 Sep–Oct;36(5):264–6 (Eng. Abstr.) **(Spa)**

ECONOMICS

Outpatient electroconvulsive therapy: a cost-saving alternative. Kramer BA. **Hosp Community Psychiatry** 1990 Apr;41(4):361–3

HISTORY

The origins of electroconvulsive therapy. Alverno L. **Wis Med J** 1990 Feb;89(2):54–6

[Towards the rehabilitation of maintenance electroconvulsive therapy?] Lôo H, et al. **Ann Med Psychol (Paris)** 1990 Jan; 148(1):1–15 (63 ref.) (Eng. Abstr.) **(Fre)**

INSTRUMENTATION

Failure to convulse with ECT [letter] di Michele V, et al. **Br J Psychiatry** 1989 Dec;155:869–70

[Equipment for electroconvulsive therapy] Afeltowicz Z. **Psychiatr Pol** 1989 Jan–Feb;23(1):70 **(Pol)**

METHODS

Right versus left unilateral ECT [letter] Andrade C, et al. **Am J Psychiatry** 1990 Oct;147(10):1382

Caffeine augmentation of ECT. Coffey CE, et al. **Am J Psychiatry** 1990 May;147(5):579–85

Preventilation of oxygen in electroconvulsive treatment: a suggested modification of technique. McAndrew J, et al. **Am J Psychiatry** 1967 Aug;124(2):251–2

Electroconvulsive therapy. The perioperative process [see comments] Duffy WJ Jr, et al. **AORN J** 1989 Oct; 50(4):806–12 Comment in: AORN J 1990 Jan;51(1):20, 22.

Proposals for the mechanism of action of convulsive therapy: a synthesis. King BH, et al. **Biol Psychiatry** 1990 Jan 1; 27(1):76–94 (140 ref.)

ECT seizure monitoring [letter] Kramer BA, et al. **Biol Psychiatry** 1989 Dec;26(8):848–50

Effect of hyperventilation on seizure length during electroconvulsive therapy. Pande AC, et al. **Biol Psychiatry** 1990 Apr 1;27(7):799–801

The role of electroconvulsive therapy in the treatment of depressive illness in old age [see comments] Benbow SM. **Br J Psychiatry** 1989 Aug;155:147–52 (60 ref.) Comment in: Br J Psychiatry 1989 Nov;155:713–4.

EEG monitoring of ECT [letter; comment] Jones EM. **Br J Psychiatry** 1989 Jun;154:880–1 Comment on: Br J Psychiatry 1989 Feb;154:229–31.

Practical administration of ECT [letter] Littlejohns CS. **Br J Psychiatry** 1989 Aug;155:265

Would monitoring by electroencephalogram improve the practice of electroconvulsive therapy? Scott AI, et al. **Br J Psychiatry** 1989 Jun;154:853–7

The use of propofol for anaesthesia during ECT [letter; comment] Simpson KH, et al. **Br J Psychiatry** 1989 May; 154:721–2 Comment on: Br J Psychiatry 1989 Jan;154:125.

Electroconvulsive therapy: an update. Coffey CE, et al. **Hosp Community Psychiatry** 1990 May;41(5):515–21 (63 ref.)

A review of ECT for children and adolescents. Bertagnoli MW, et al. **J Am Acad Child Adolesc Psychiatry** 1990 Mar; 29(2):302–7 (48 ref.)

Are brief pulse and sine wave ECT equally efficient? Fox HA, et al. **J Clin Psychiatry** 1989 Nov;50(11):432–5

Monitoring seizure duration during ECT [letter; comment] Kramer BA, et al. **J Clin Psychiatry** 1990 Jan;51(1):38–9 Comment on: J Clin Psychiatry 1989 Apr;50(4):140–2.

Caffeine-modified electroconvulsive therapy in depressed patients with medical illness. Lurie SN, et al. **J Clin Psychiatry** 1990 Apr;51(4):154–7

Electrode placement in ECT: cognitive effects. Lawson JS, et al. **Psychol Med** 1990 May;20(2):335–44

[ECT: efficacy and stability of therapeutic results] Peyré F, et al. **Ann Med Psychol (Paris)** 1989 Aug;147(6):691–8 (43 ref.) **(Fre)**

STANDARDS

Electroconvulsive therapy in octogenarians. Cattan RA, et al. **J Am Geriatr Soc** 1990 Jul;38(7):753–8

ELECTROCUTION, ACCIDENTAL see **ELECTRIC INJURIES**

ELECTRODERMAL RESPONSE see **GALVANIC SKIN RESPONSE**

ELECTRODES

Needle electrode insertion into tibialis posterior. A new approach. Lee HJ, et al. **Am J Phys Med Rehabil** 1990 Jun;69(3):126–7

Fabrication, evaluation, and use of extracellular K+ and H+ ion-selective electrodes. Johnson TA, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1224–31

Regenerable fiber-optic-based immunosensor. Bright FV, et al. **Anal Chem** 1990 May 15;62(10):1065–9

Binding studies using ion-selective electrodes. Examination of the picrate-albumin interaction as a model system. Christopoulos TK, et al. **Anal Chem** 1990 Feb 15; 62(4):360–7

Surface-enhanced Raman scattering of dopamine at polymer-coated silver electrodes. McGlashen ML, et al. **Anal Chem** 1990 Apr 15;62(8):846–9

Detection of rat basophilic leukemia by cyclic voltammetry for monitoring allergic reaction. Matsunaga T, et al. **Anal Chem** 1989 Nov 15;61(22):2471–4

Composite electrodes based on carbonized poly(acrylonitrile) foams. Wang J, et al. **Anal Chem** 1990 May 15;62(10):1102–4

Polishable and robust biological electrode surfaces. Wang J, et al. **Anal Chem** 1990 Feb 1,62(3):318–20

Highly stable phospholipid/cholesterol electrode coatings for amperometric monitoring of hydrophobic substances in flowing streams. Wang J, et al. **Anal Chem** 1990 Apr 15; 62(8):826–9

Determination of glutathione in human plasma using high-performance liquid chromatography with electrochemical detection with a carbon-epoxy resin composite electrode chemically modified with cobalt phthalocyanine. Wring SA, et al. **Analyst** 1989 Dec; 114(12):1571–3

Bacterial transference during electrodesiccation and electrocoagulation [see comments] Bennett RG, et al. **Arch Dermatol** 1990 Jun;126(6):751–5 Comment in: Arch Dermatol 1990 Jun;126(6):805–8.

Contamination risks associated with electrosurgery [comment] Sebben JE. **Arch Dermatol** 1990 Jun; 126(6):805–8 Comment on: Arch Dermatol 1990 Jun;126(6):751–5.

The rapid measurement of fluoride concentrations in stored

human saliva by means of a differential electrode cell. Tyler JE, et al. **Arch Oral Biol** 1989;34(12):995–8
Preparation and validation of implantable electrodes for the measurement of oxygen and glucose. Brunstein E, et al. **Biomed Biochim Acta** 1989;48(11–12):911–7
Glucose determination by differential pulse voltammetry with a platinum electrode. Temme J, et al. **Biomed Biochim Acta** 1989;48(11–12):883–9
The needle glucose electrode: in vitro performance and optimisation for implantation. Vadgama P, et al. **Biomed Biochim Acta** 1989;48(11–12):935–42
A novel approach to electrode signal analysis for glucose determination. Zawicki I, et al. **Biomed Biochim Acta** 1989; 48(11–12):879–82
A new technique for three-dimensional localization of transmural electrodes. Witkowski FX, et al. **Biomed Instrum Technol** 1989 Sep–Oct;23(5):396–402
A 100 electrode intracortical array: structural variability. Campbell PK, et al. **Biomed Sci Instrum** 1990;26:161–5
Electrode catheters and the diagnosis of Ebstein's anomaly of the tricuspid valve. Watson H. **Br Heart J** 1966 Mar; 28(2):161–71 (53 ref.)
Enzyme sensors based on an ion-sensitive field effect transistor coated with Langmuir–Blodgett membranes. Use of polyethyleneimine as a spacer for immobilizing alpha-chymotrypsin. Anzai J, et al. **Chem Pharm Bull (Tokyo)** 1989 Dec;37(12):3320–2
Photo-switchable ion and enzyme sensors. Photoinduced potentiometric response of glassy carbon electrode coated with polymer or polymer/enzyme dual membrane. Chen CW, et al. **Chem Pharm Bull (Tokyo)** 1989 Dec; 37(12):3316–9
Plasma-polymerized membrane electrode for the determination of dextromethorphan and dimemorfan. Hazemoto N, et al. **Chem Pharm Bull (Tokyo)** 1989 Aug; 37(8):2153–4
Electrode radius predicts lesion radius during radiofrequency energy heating. Validation of a proposed thermodynamic model. Haines DE, et al. **Circ Res** 1990 Jul;67(1):124–9
Observations on electrode–tissue interface temperature and effect on electrical impedance during radiofrequency ablation of ventricular myocardium. Haines DE, et al. **Circulation** 1990 Sep;82(3):1034–8
Effect of epicardial patch electrodes on transthoracic defibrillation. Lerman BB, et al. **Circulation** 1990 Apr; 81(4):1409–14
Anterior temporal (T1/T2) electrodes in the evaluation of patients with seizure disorders [letter] Bromfield E, et al. **Clin Electroencephalogr** 1989 Oct;20(4):VII–VIII
Antimony electrodes. Mucosal potential differences and buffer composition adversely affect pH measurements in the stomach. Opekun AR, et al. **Dig Dis Sci** 1990 Aug; 35(8):950–5
ERG electrode in pediatric patients: comparison of DTL fiber, PVA–gel, and non–corneal skin electrodes. Coupland SG, et al. **Doc Ophthalmol** 1989 Apr;71(4):427–33
Distribution of temporal spikes in relation to the sphenoidal electrode. Binnie CD, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov;73(5):403–9
Electron transfer reactions of metalloproteins at peptide-modified gold electrodes. Barker PD, et al. **Eur J Biochem** 1990 May 31;190(1):171–5
The relative efficacy of monopolar vs. bipolar electrodes in stimulation-produced analgesia. Thorn BE, et al. **Exp Brain Res** 1990;79(2):266–70
Electrode characterization for functional application to upper extremity FNS. Kilgore KL, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):12–21
Silver–silver chloride plunge electrode needles and chloriding monitor. Moore KB, et al. **IEEE Trans Biomed Eng** 1990 May;37(5):532–5
Rapid assessment of electrode characteristics for impedance imaging. Newell, et al. **IEEE Trans Biomed Eng** 1990 Jul; 37(7):735–8
Comments on "A Spiral Nerve Cuff Electrode for Peripheral Nerve Stimulation" [comment] Racz GB, et al. **IEEE Trans Biomed Eng** 1989 Nov;36(11):1140–1 Comment on: IEEE Trans Biomed Eng 1988 Nov;35(11):905–16.
Nonlinear system identification for cascaded block model: an application to electrode polarization impedance. Shi JH, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):574–87
Electrode for selective recording of electromyograms from intercostal muscles. Whitelaw WA, et al. **J Appl Physiol** 1989 Nov;67(5):2125–8
Non-contacting electrode system for the measurement of strain generated potentials in bone. Hastings GW, et al. **J Biomed Eng** 1989 Sep;11(5):403–8
A combined TDDA–PVC pH and reference electrode for use in the upper small intestine. McEwan GT, et al. **J Med Eng Technol** 1990 Jan–Feb;14(1):16–20
Surface electromyographic electrode pair with built-in buffer-amplifiers. Fujisawa M, et al. **J Prosthet Dent** 1990 Mar;63(3):350–2
Effects of click rate and electrode orientation on threshold of the auditory brainstem response. Sininger YS, et al. **J Speech Hear Res** 1989 Dec;32(4):880–6
Modified electrode surface in amperometric biosensors. Bartlett PN. **Med Biol Eng Comput** 1990 May;28(3):B10–7 (72 ref.)
Ag/AgCl electrode assembly for thin smooth muscle electromyography. Cremer F, et al. **Med Biol Eng Comput** 1989 Jul;27(4):346–56
Electrical properties of metallic electrodes. Ragheb T, et al. **Med Biol Eng Comput** 1990 Mar;28(2):182–6
Optimisation of enzyme electrodes. Tang LX, et al. **Med Biol Eng Comput** 1990 May;28(3):B18–24 (27 ref.)
Combined use of subdural and intracerebral electrodes in preoperative evaluation of epilepsy. van Veelen CW, et al. **Neurosurgery** 1990 Jan;26(1):93–101
Interpolating unipolar epicardial potentials from electrodes separated by increasing distances. Blanchard SM, et al. **PACE** 1989 Dec;12(12):1938–55
Atrial and ventricular stimulation threshold development: a comparative study in patients with a DDD pacemaker and two identical carbon–tip leads. Brandt J, et al. **PACE** 1990 Jul;13(7):859–66
Utility of low energy test shocks for estimation of cardiac and electrode impedance with implantable defibrillators. Leitch JW, et al. **PACE** 1990 Apr;13(4):410–6
The ventricular excitability–interval relationship in early diastole in humans: the influence of the electrode configuration during bipolar stimulation. Toivonen LK, et al. **PACE** 1990 Jul;13(7):875–81
A multiwire hydrogen electrode for in vivo use. Harrison DK, et al. **Phys Med Biol** 1989 Oct;34(10):1397–412
The use of purpose–made electrode gels in the measurement of electrodermal activity: a correction to Grey and Smith (1984) [letter] Clements K. **Psychophysiology** 1989 Jul; 26(4):495
Studies on response characteristics of drug ISE's (VII)—performance and theoretical treatment of microcells connected in series. Yao SZ, et al. **Sci China [B]** 1990 Jun; 33(6):694–703
Concentric electrodes for producing acupuncture–like anesthetic effects. Oda H, et al. **Tohoku J Exp Med** 1990 Mar;160(3):169–75
[Study and application of atropine field–effect transistor] Lu TP, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar; 20(1):77–80 (Eng. Abstr.) **(Chi)**
[Studies on the stability of procaine coated wire selective electrode] Hu XY, et al. **Yao Hsueh Hsueh Pao** 1989; 24(10):793–6 (Eng. Abstr.) **(Chi)**
[Characteristics of ion selective electrodes with hetero–poly anion sites] Nie LH, et al. **Yao Hsueh Hsueh Pao** 1989; 24(6):458–64 (Eng. Abstr.) **(Chi)**
[Present state of the art of pacemaker electrodes. Significance for clinical practice] Alt E. **Dtsch Med Wochenschr** 1990 Jan 5;115(1):24–9 (21 ref.) **(Ger)**
[Percutaneous removal of a pacemaker electrode] Höhne U, et al. **ROFO** 1989 Nov;151(5):586–9 (Eng. Abstr.) **(Ger)**
[Progress in methods of studying renal tubular transport. The patch clamp] Kawahara K. **Nippon Rinsho** 1989 Jul; 47(7):1460–5 **(Jpn)**
[Determination of fluorine in biological materials with ion–selective electrodes] Szewielow A. **Rocz Panstw Zakl Hig** 1989;40(1):65–8 (Eng. Abstr.) **(Pol)**
[A method for determining the parameters of an equivalent electrical model of the interelectrode area] Bagirova LV, et al. **Fiziol Cheloveka** 1989 Sep–Oct;15(5):171–3 **(Rus)**
[Truncal vagotomy using a monoactive electrode] Novikov KV, et al. **Klin Khir** 1990;(1):77 **(Rus)**
[An electrode for recording bioelectrical activity of the cochlea in chronic experiments] Guselnov NM, et al. **Vestn Otorinolaringol** 1989 Sep–Oct;(5):65–6 **(Rus)**
[Electrodes for rectal electrophoresis of the prostate] Ustinov VP. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Jul–Aug; (4):63–5 **(Rus)**
[Chronic stimulation thresholds using carbon and platinum electrodes] Goicolea A, et al. **Rev Esp Cardiol** 1990 Feb; 43(2):80–3 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Dissolution of a right atrial thrombus attached to pacemaker electrodes: usefulness of recombinant tissue–type plasminogen activator. Mügge A, et al. **Am Heart J** 1990 Jun;119(6):1437–9
Atrial perforation by a screw–in electrode via a left superior vena cava. Van Nooten G, et al. **Am Heart J** 1990 Jun; 119(6):1439–40
Transient corneal changes associated with the use of gold foil electrodes. Aylward GW, et al. **Br J Ophthalmol** 1989 Dec;73(12):980–4

ELECTRODES, ENZYME see **BIOSENSORS**

ELECTRODES, IMPLANTED

Imaging of MR–compatible intracerebral depth electrodes. Duckwiler GR, et al. **AJNR** 1990 Mar–Apr;11(2):353–4
Forceps extraction of permanent pacing leads. Kratz JM, et al. **Ann Thorac Surg** 1990 Apr;49(4):676–7
An epicardial synchronous pacemaker lead. Smyth NP, et al. **Ann Thorac Surg** 1967 Feb;3(2):119–25
Aggressive pacemaker twiddler's syndrome. Dislodgement of an active fixation ventricular pacing electrode. Lal RB, et al. **Chest** 1990 Mar;97(3):756–7
Comfortable insertion of sphenoidal electrodes in children. Wyllie E, et al. **Epilepsia** 1990 Sep–Oct;31(5):521–3
Continuous multi–channel intravascular monitoring of the effects of dopamine and dobutamine on plasma potassium in dogs. Drake HF, et al. **Intensive Care Med** 1989; 15(7):446–51
An improved design of electrodes for measurement of streaming potentials on wet bone in vitro and in vivo. Cochran GV, et al. **J Biomech** 1989;22(6–7):745–50
Simplified suture technique for implanting temporary pacemaker electrodes. Rubio PA. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):998–9
Exit block in pediatric cardiac pacing. Comparison of the suture–type and fishhook epicardial electrodes. DeLeon SY, et al. **J Thorac Cardiovasc Surg** 1990 May;99(5):905–10
Intracranial EEG electrodes [letter; comment] Kuzniecky R, et al. **Neurology** 1990 Jun;40(6):1009–10 Comment on: Neurology 1989 Nov;39(11):1497–504.
Depth versus subdural electrodes [letter] Mark VH. **Neurology** 1990 May;40(5):861
Epidural peg electrodes for the presurgical evaluation of intractable epilepsy. Barnett GH, et al. **Neurosurgery** 1990 Jul;27(1):113–5
Long–term comparison of the electrical characteristics of polyurethane and polyethylene insulated ventricular leads. Bluhm G, et al. **PACE** 1990 May;13(5):583–7
Facilitation of the subclavian–introducer technique with contrast venography. Higano ST, et al. **PACE** 1990 May; 13(5):681–4
Stimulation characteristics of a steroid–eluting electrode compared with three conventional electrodes. Klein HH, et al. **PACE** 1990 Feb;13(2):134–7
Effects of filtering on right ventricular electrograms recorded from endocardial catheters in humans. Klitzner TS, et al. **PACE** 1990 Jan;13(1):69–77
Transarterial permanent pacing of the left ventricle. Mazzetti H, et al. **PACE** 1990 May;13(5):588–92
Self–entwinement of an active fixation pacemaker electrode. Stoughton TL, et al. **PACE** 1990 Aug;13(8):1059–60
[Role of and current technical possibilities for intracorporeal determination of blood glucose in the treatment of insulin–dependent diabetes mellitus] Fischer U, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:247–66 (77 ref.) **(Fre)**
[Identification of temporal epileptic seizures using percutaneous sphenoidal electrodes] Giroud M, et al. **Presse Med** 1990 Jun 23;19(25):1183–7 (Eng. Abstr.) **(Fre)**
[Carbon as a conductor for stimulation electrodes] Bolz A, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:66–7 **(Ger)**
[The detection and stimulus threshold behavior of titanium nitride cardiac pacemaker electrodes] Schaldach M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:54–6 **(Ger)**
[Prerequisites for pacemaker electrodes for individual programming of a low stimulation impulse (comparison of an Elgiloy and a steroid–dependent pacemaker electrode)] Schuchert A, et al. **Z Kardiol** 1990 Jun;79(6):403–7 (Eng. Abstr.) **(Ger)**
[Ventricular tachycardia induced by a bent catheter electrode migrated to the pulmonary artery] Bonomi FG, et al. **Cardiologia** 1990 Jan;35(1):83–5 (Eng. Abstr.) **(Ita)**
[Nonthoracotomy internal defibrillation in dogs using a body surface electrode with a transvenous catheter electrode] Yotsukura A. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):450–6 (Eng. Abstr.) **(Jpn)**
[The equivalent resistance of intracerebral gold electrodes in human beings] Danko SG. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):157–61 **(Rus)**
[A multichannel cortical electrode for recording the neuronal impulse activity of the human cerebral cortex] Gurchin FA, et al. **Fiziol Cheloveka** 1989 Jul–Aug;15(4):174–6 **(Rus)**
[A method for the chronic implantation of electrodes into the cortex of the medial surface of the hemispheres in the dog] Aleksandrov VG. **Fiziol Zh SSSR** 1990 Jan; 76(1):133–4 **(Rus)**
[A method of myocardial electrode implantation for permanent electrocardiostimulation] Nikitchenko AP. **Grudn Khir** 1989 Sep–Oct;(5):77–8 **(Rus)**
[An implantable defibrillator saves lives in ventricular arrhythmia] Sandstedt B. **Lakartidningen** 1990 Mar 28; 87(13):1055–8 **(Swe)**

ADVERSE EFFECTS

Management of complications associated with a first–generation endocardial defibrillation lead system for implantable cardioverter–defibrillators. Tullo NG, et al. **Am J Cardiol** 1990 Aug 15;66(4):411–5
Adverse effects of permanent cardiac internal defibrillator patches on external defibrillation. Walls JT, et al. **Am J Cardiol** 1989 Nov 15;64(18):1144–7
[The dynamics of the potential of the oxidative–reductive status of the cerebral cortex developing as a reaction to implanted platinum electrodes] Shvets–Teneta–Guriĭ TB, et al. **Fiziol Zh SSSR** 1990 Mar;76(3):315–23 (Eng. Abstr.) **(Rus)**

STANDARDS

Comparison of depth and subdural electrodes in recording temporal lobe seizures [see comments] Sperling MR, et al. **Neurology** 1989 Nov;39(11):1497–504 Comment in: Neurology 1990 Jun;40(6):1009–10.
Connectors [editorial] Furman S. **PACE** 1990 May;13(5):567

VETERINARY

A study on the effect of electrical stimulation on living tissue: potential before, during and after galvanization with constant current of 20 microA through platinum electrodes.

Kubota T, et al. **Nippon Juigaku Zasshi** 1990 Apr; 52(2):315–9

ELECTRODES, MINIATURIZED see **MICROELECTRODES**

ELECTRODIAGNOSIS

Hypothyroid neuropathy and myopathy: clinical and electrodiagnostic longitudinal findings. Torres CF, et al. **J Neurol** 1990 Jul;237(4):271–4

Electrodiagnosis of human dorsal sacral nerve roots by recording afferent and efferent extracellular action potentials. Schalow G, et al. **Neurosurg Rev** 1989; 12(3):223–32

Blink reflex: prognostic value in acute peripheral facial palsy. Ghonim MR, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(2):75–9

[Activation tests in the diagnosis of myasthenia gravis using repetitive stimulation] Ambler Z. **Cesk Neurol Neurochir** 1990 Mar;53(2):78–82 (Eng. Abstr.) **(Cze)**

[Impedance analysis using the random noise oscillation method and a body box] Mishima M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Dec; 27(12):1453–9 (Eng. Abstr.) **(Jpn)**

INSTRUMENTATION

Electronic filter effects on normal motor and sensory nerve conduction tests. Pease WS, et al. **Am J Phys Med Rehabil** 1990 Feb;69(1):28–31

Current perception threshold. Reproducibility and comparison with nerve conduction in evaluation of carpal tunnel syndrome. Katims JJ, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):280–4

Design of a measurement system for electrophysiological cardiac surgery. Ashton NG, et al. **Australas Phys Eng Sci Med** 1990 Jun;13(2):59–62

Metron QA5 artifact signal locator. **Health Devices** 1990 Jan; 19(1):23–4

Total body water: changes during dialysis estimated by bioimpedance analysis. Böhm D, et al. **Infusionstherapie** 1990 Apr;17 Suppl 3:75–8

Advances in the electrodiagnosis of nerve injury. Wexler I. **Md Med J** 1990 Jul;39(7):649–51

[A new sock and snap electrode for epicardial mapping] Iwa T, et al. **Kyobu Geka** 1990 Jun;43(6):453–6 (Eng. Abstr.) **(Jpn)**

METHODS

Deep peroneal sensory nerve. Standardization in nerve conduction study. Lee HJ, et al. **Am J Phys Med Rehabil** 1990 Aug;69(4):202–4

Phagaquosonogram (PASG) diagnosis for cancer of gastric cardia. A preliminary study of 223 patients. Chen LX, et al. **Chin Med J [Engl]** 1989 Nov;102(11):844–50

Adaptive filtering in biological signal processing. Iyer VK, et al. **Crit Rev Biomed Eng** 1990;17(6):531–84 (32 ref.)

Validation of the measurement of body composition from whole body bioelectric impedance. Shizgal HM. **Infusionstherapie** 1990 Apr;17 Suppl 3:67–74

Clinical profile and electrodiagnostic study of peripheral neuropathy. Goel UC, et al. **J Assoc Physicians India** 1989 Sep;37(9):578–82

An electrical method for examining remaining dentine thickness. Yoshida H, et al. **J Dent** 1989 Dec;17(6):284–6

Electroglottography and vocal fold physiology. Childers DG, et al. **J Speech Hear Res** 1990 Jun;33(2):245–54

Impaired driving fitness after electrical or magnetic cortical stimulation [letter] Saltuari L, et al. **Lancet** 1990 Sep 1; 336(8714):563

Waveform morphology and amplitude variability in facial-nerve electroneurography. Kelleher MJ, et al. **Laryngoscope** 1990 Jun;100(6):570–5

Electroneurography and intraoperative facial monitoring in contemporary neurotology. Kartush JM. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):496–503 (23 ref.)

[The centimetric test: a diagnostic conformation test of very limited forms of carpal tunnel syndrome?] Seror P. **Ann Chir Main** 1989;8(3):254–64 (25 ref.) (Eng. Abstr.) **(Fre)**

[Relevance of combined electrodiagnosis in facial hyperkinesia] Laskawi R, et al. **HNO** 1990 Apr;38(4):145–7 (Eng. Abstr.) **(Ger)**

[Influence of food intake on electrogastrography] Okuno H, et al. **Nippon Heikatsukin Gakkai Zasshi** 1989 Oct; 25(5):178–81 **(Jpn)**

[A method for the electrical impulse profilometry of the vesicoureteral segment] Salov PP, et al. **Urol Nefrol (Mosk)** 1990 Mar–Apr;(2):35–8 (Eng. Abstr.) **(Rus)**

STANDARDS

Electrodiagnostic testing in myasthenia gravis [letter; comment] Kumar P. **Muscle Nerve** 1990 May;13(5):461–2 Comment on: Muscle Nerve 1989 Aug;12(8):613–26.

ELECTROENCEPHALOGRAPHY

Brain potentials and errors in the course of the one-dimensional tracking task. Indra M, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):148–9

Changes in EEG slow potentials during one-dimensional tracking task. Indra M, et al. **Act Nerv Super (Praha)** 1990 Jun;32(2):134–5

Effects of anticonvulsants on hippocampal afterdischarges evaluated by means of syntactic analysis. Rump S, et al. **Act Nerv Super (Praha)** 1989 Jun;31(2):113–5

EEG frequency spectrum and the saturation with thyroid hormones. Sulc J, et al. **Act Nerv Super (Praha)** 1990 Mar; 32(1):74

Differential diagnostic value and influence on EEG of Anexate (Flumazenil, Ro 15–1788) in benzodiazepine-intoxication. A case report. Gijsenbergh FP, et al. **Acta Anaesthesiol Belg** 1989;40(2):127–9

Anesthetic induction with thiopental: its effect on scalp topography of median nerve somatosensory evoked potentials. Pinto F, et al. **Acta Anaesthesiol Scand** 1990 Jul; 34(5):389–92

Relationship between changes in power spectra of electroencephalograms and arterial halothane concentration in infants. Sugiyama K, et al. **Acta Anaesthesiol Scand** 1989 Nov;33(8):670–5

Correlation between EEG and heart rate variation in deep enflurane anaesthesia. Yli-Hankala A, et al. **Acta Anaesthesiol Scand** 1990 Feb;34(2):138–43

Differential effect of the damage to the lateral hypothalamic area on hippocampal theta rhythm during waking and paradoxical sleep. Jurkowlaniec E, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(4):153–69

Effect of after-discharge EEG patterns on performance and latency of the conditioned avoidance response in hippocampally kindled cats. Majkowski J, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(6):327–36

Diversity of kindling effects: EEG manifestations in cats during kindling in the hippocampal formation. Sobieszek A. **Acta Neurobiol Exp (Warsz)** 1989;49(6):337–57

Balloon test occlusion of the internal carotid artery with monitoring of compressed spectral arrays (CSAs) of electroencephalogram. Morioka T, et al. **Acta Neurochir (Wien)** 1989;101(1–2):29–34

Sleep and sleep deprived EEG in partial and generalized epilepsy. Drake ME Jr, et al. **Acta Neurol Belg** 1990; 90(1):11–9 (44 ref.)

Cerebral complications detected by EEG-monitoring during neonatal intensive care. Hellström-Westas L, et al. **Acta Paediatr Scand Suppl** 1989;360:83–6

Ovariectomy- and sex hormone-induced changes in the excitability of the CNS: an assessment by EEG paroxysmal activity and behaviour. Nikiforova AS, et al. **Acta Physiol Pharmacol Bulg** 1989;15(4):48–52

Spontaneous EEG paroxysmal activity, behavioural and endocrine changes in male rats subjected to different regimens of locomotion. Nikiforova AS, et al. **Acta Physiol Pharmacol Bulg** 1989;15(2):58–62

Long-term locomotion regimens affect EEG paroxysmal activity, behaviour and sex hormone secretion in female rats. Nikiforova AS, et al. **Acta Physiol Pharmacol Bulg** 1989;15(3):31–7

Influence of stimulation parameters on auditory stimulus processing in schizophrenia and major depression: an auditory evoked potential study. Adler G, et al. **Acta Psychiatr Scand** 1990 May;81(5):453–8

Slower theta activity over the midfrontal cortex in schizophrenic patients. Westphal KP, et al. **Acta Psychiatr Scand** 1990 Feb;81(2):132–8

Decreased R-R variance in panic disorder patients. Yeragani VK, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):554–9

The effect of paroxetine on the quantitative EEG. McClelland GR, et al. **Acta Psychiatr Scand Suppl** 1989; 350:50–2

Time course of EEG power density during long sleep in humans. Dijk DJ, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):R650–61

Effects of hormones and vaginal stimulation on the EEG and hypothalamic units in rats. Ramirez VD, et al. **Am J Physiol** 1967 Jun;212(6):1376–84

Effective therapeutic infusions produced by closed-loop feedback control of methohexital administration during total intravenous anesthesia with fentanyl. Schwilden H, et al. **Anesthesiology** 1990 Aug;73(2):225–9

Direct cortical EEG monitoring during temporary vascular occlusion for cerebral aneurysm surgery. Young WL, et al. **Anesthesiology** 1989 Nov;71(5):794–9

Continuous changes in electroencephalographic topograms and auditory reaction time during simulated 21 ATA (atmospheres absolute) heliox saturation dives. Ozawa K, et al. **Ann Physiol Anthropol** 1989 Oct;8(4):247–66

Effect of intraoperative intervention on neurological outcome based on electroencephalographic monitoring during cardiopulmonary bypass. Arom KV, et al. **Ann Thorac Surg** 1989 Oct;48(4):476–83

Intraoperative electroencephalographic monitoring during carotid surgery with routine shunting. Scheyvaerts M, et al. **Ann Vasc Surg** 1990 Jul;4(4):318–22

Association between diabetes, severe hypoglycaemia, and electroencephalographic abnormalities. Soltész G, et al. **Arch Dis Child** 1989 Jul;64(7):992–6

Electrocardiograph interpretation by junior doctors. Morrison WG, et al. **Arch Emerg Med** 1990 Jun;7(2):108–10

Two roads to rapid eye movement latency. Kupfer DJ, et al. **Arch Gen Psychiatry** 1989 Oct;46(10):945–8 (55 ref.)

Clinical value of topographic mapping and quantified neurophysiology. Duffy FH. **Arch Neurol** 1989 Oct; 46(10):1133–4

Computed tomography, electroencephalography, and clinical features in the differential diagnosis of senile dementia. A prospective clinicopathologic study. Ettlin TM, et al. **Arch Neurol** 1989 Nov;46(11):1217–20

Sleep spindles in torsion dystonia. Fish DR, et al. **Arch Neurol** 1990 Feb;47(2):216–8

The development of independent foci in epileptic patients. Niedieck T, et al. **Arch Neurol** 1990 Apr;47(4):406–11

The importance of the electrocardiogram in ambulatory electroencephalographic recordings. Nousiainen U, et al. **Arch Neurol** 1989 Nov;46(11):1171–4

Uses and abuses of brain mapping. Nuwer MR. **Arch Neurol** 1989 Oct;46(10):1134–6

Computerized topographic brain mapping during carotid endarterectomy. Elmore JR, et al. **Arch Surg** 1990 Jun; 125(6):734–7; discussion 738

EEG monitoring using aperiodic analysis during carotid and open heart surgery. Koumoundouros E, et al. **Australas Phys Eng Sci Med** 1989 Sep;12(3):149–54

EEG changes measured by spectrum analysis under hyperbaric conditions. Dolmierski R, et al. **Aviat Space Environ Med** 1990 Jan;61(1):33–7

Upper facial muscle activity and survival after hypoxic insult in rats. Paloheimo MP. **Behav Brain Res** 1989 Oct 1; 35(1):81–3

Sleep and EEG slow-wave activity in the domestic cat: effect of sleep deprivation. Tobler I, et al. **Behav Brain Res** 1990 Mar 5;37(2):109–18

The effect of 3-h and 6-h sleep deprivation on sleep and EEG spectra of the rat. Tobler I, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):73–8

Genetics of absence epilepsy in rats. Peeters BW, et al. **Behav Genet** 1990 May;20(3):453–60

Three case reports of the metabolic and electroencephalographic changes during advanced Buddhist meditation techniques. Benson H, et al. **Behav Med** 1990 Summer;16(2):90–5

Spectral analysis of the central nervous system effects of the relaxation response elicited by autogenic training [published erratum appears in Behav Med 1989 Winter;15(4):following 190] Jacobs GD, et al. **Behav Med** 1989 Fall;15(3):125–32

Visual evoked potential measures of interhemispheric transfer time in humans. Saron CD, et al. **Behav Neurosci** 1989 Oct; 103(5):1115–38

Neurological evaluation of chronic headache patients: is laboratory testing always necessary? Morrill B, et al. **Biofeedback Self Regul** 1990 Mar;15(1):27–35

Segmentation of EEG during sleep using time-varying autoregressive modeling. Amir N, et al. **Biol Cybern** 1989; 61(6):447–55

Evidence of chaotic dynamics underlying the human alpha-rhythm electroencephalogram. Soong AC, et al. **Biol Cybern** 1989;62(1):55–62

Autoregression models of EEG. Results compared with expectations for a multilinear near-equilibrium biophysical process. Wright JJ, et al. **Biol Cybern** 1990;62(3):201–10

Does kindling model anything clinically relevant? Adamec RE. **Biol Psychiatry** 1990 Feb 1;27(3):249–79 (115 ref.)

The sleep of dysthymic patients: a comparison with normal controls. Arriaga F, et al. **Biol Psychiatry** 1990 Mar 15; 27(6):649–56

EEG and brainstem auditory evoked response potentials in adult male drug abusers with self-reported histories of aggressive behavior. Fishbein DH, et al. **Biol Psychiatry** 1989 Oct;26(6):595–611

EEG power spectrum profile and structural CNS characteristics in schizophrenia. Gambini O, et al. **Biol Psychiatry** 1990 Jun 15;27(12):1331–4

A reexamination of the relationship between growth hormone secretion and slow wave sleep using delta wave analysis. Jarrett DB, et al. **Biol Psychiatry** 1990 Mar 1;27(5):497–509

Bereitschaftspotential in melancholic depression. Khanna S, et al. **Biol Psychiatry** 1989 Sep;26(5):526–9

ECT seizure monitoring [letter] Kramer BA, et al. **Biol Psychiatry** 1989 Dec;26(8):848–50

Event-related potential correlates of impaired attention in schizophrenic children. Strandburg RJ, et al. **Biol Psychiatry** 1990 May 15;27(10):1103–15

Endogenous event-related potentials in obsessive-compulsive disorder. Towey J, et al. **Biol Psychiatry** 1990 Jul 15;28(2):92–8

Event-related potentials before and after training: chronometry and lateralization of visual N1 and N2. Ciesielski KT, et al. **Biol Psychol** 1989 Jun;28(3):227–38

"Initial-" and "change-orienting reactions": an analysis based on visual single-trial event-related potentials. Kenemans JL, et al. **Biol Psychol** 1989 Jun;28(3):199–226

The influence of a vasopressin-analogue (DGAVP) on event-related potentials in a stimulus-mismatch paradigm. Pietrowsky R, et al. **Biol Psychol** 1989 Jun;28(3):239–50

Event-related perturbations in an electrophysiological measure of auditory function: a measure of sensitivity during orienting? Rohrbaugh JW, et al. **Biol Psychol** 1989 Dec;29(3):247–71

An electrophysiological investigation of the spatial distribution of attention to colored stimuli in focused and divided attention conditions. Wijers AA, et al. **Biol Psychol** 1989 Dec;29(3):213–45

The electroencephalogram (EEG). Snyder EJ.

Biomed Instrum Technol 1990 Jul–Aug;24(4):296–8
Autoregressive spectral filter studies on the sensorimotor rhythm EEG state variable. Turbes CC, et al. **Biomed Sci Instrum** 1990;26:17–23
Forty hertz (40Hz) and sensorimotor rhythms (SMR) as EEG state variables and related evoked potentials. Turbes CC, et al. **Biomed Sci Instrum** 1990;26:25–31
Return current in encephalography. Variational principles. Heller L. **Biophys J** 1990 Mar;57(3):601–6
Brain organization in infants: electrical activity mapping. Duffy FH, et al. **Birth Defects** 1989;25(6):33–46
Comparison of clinical and neurological status in elderly patients treated with two different hemodialysis techniques. Briganti M, et al. **Blood Purif** 1989;7(6):324–31
Effects of quipazine in evoked potentials recorded in the cingulum of the cat. Contreras CM, et al. **Bol Estud Med Biol** 1989 Jan–Jun;37(1–2):57–62
Relations between anxiety, psychophysiological variables and menstrual cycle in healthy women. Contreras CM, et al. **Bol Estud Med Biol** 1989 Jan–Jun;37(1–2):50–6
EEG and unit activity: quantification and interrelationship. Bronzino JD. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):65–71 (8 ref.)
Stereological location of electroencephalographic activity. Butler SR. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):87–100 (18 ref.)
The resting EEG: an useful monitor of brain function in experimental aging research. Giaquinto S, et al. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):109–28 (37 ref.)
EEG findings in chlor-alkali workers subjected to low long term exposure to mercury vapour. Piikivi L, et al. **Br J Ind Med** 1989 Jun;46(6):370–5
Failure to convulse with ECT [letter] di Michele V, et al. **Br J Psychiatry** 1989 Dec;155:869–70
Status epilepticus after electroconvulsive therapy. Scott AI, et al. **Br J Psychiatry** 1989 Jul;155:119–21
Would monitoring by electroencephalogram improve the practice of electroconvulsive therapy? Scott AI, et al. **Br J Psychiatry** 1989 Jun;154:853–7
An allometric analysis of the frequency of hippocampal theta: the significance of brain metabolic rate. Blumberg MS. **Brain Behav Evol** 1989;34(6):351–6
Computed EEG topography (CET) and childhood epilepsy: two years experience. De Negri M, et al. **Brain Dev** 1990; 12(2):253–6
Longitudinal observation of electroencephalograms in the Rett syndrome. Ishizaki A, et al. **Brain Dev** 1989; 11(6):407–12
Quantification of diffuse and focal delta activity in hypsarrhythmia. Parmeggiani A, et al. **Brain Dev** 1990; 12(3):310–5
Event-related potentials and the phonological matching of picture names. Barrett SE, et al. **Brain Lang** 1990 Apr; 38(3):424–37
Event-related potentials during word-reading and figure-matching in left-handed and right-handed males and females. Van Strien JW, et al. **Brain Lang** 1989 Nov; 37(4):525–47
Word-to-word variation in ERP component latencies: spoken words. Woodward SH, et al. **Brain Lang** 1990 May; 38(4):488–503
Hippocampal theta activity in the acute precollicular rat. Gottesmann C, et al. **Brain Res Bull** 1989 Jun;22(6):959–62
Methods for separating temporally overlapping sources of neuroelectric data. Achim A, et al. **Brain Topogr** 1988 Fall; 1(1):22–8
Human intracerebral potentials associated with target, novel, and omitted auditory stimuli. Alain C, et al. **Brain Topogr** 1989 Summer;1(4):237–45
Quantitative VEP analysis in children with cortical visual impairment. Bencivenga R, et al. **Brain Topogr** 1989 Spring; 1(3):193–8
Facts and artifacts in brain electrical activity mapping. Coburn KL, et al. **Brain Topogr** 1988 Fall;1(1):37–45
Comments on quantified neurophysiology—problems and advantages. Duffy FH. **Brain Topogr** 1989 Spring; 1(3):153–5
An eigenfunction approach to the inverse problem of EEG. Hjorth B, et al. **Brain Topogr** 1988 Winter;1(2):79–86
Extraction of "deep" components from scalp EEG. Hjorth B, et al. **Brain Topogr** 1988 Fall;1(1):65–9
Phase space topography and the Lyapunov exponent of electrocorticograms in partial seizures. Iasemidis LD, et al. **Brain Topogr** 1990 Spring;2(3):187–201
Computerized electroencephalography in the evaluation of early dementia. Jordan SE, et al. **Brain Topogr** 1989 Summer;1(4):271–82
Topographic mapping of the EEG: an examination of accuracy and precision. Koles ZJ, et al. **Brain Topogr** 1988 Winter;1(2):87–95
The view of an EEG-EP mapper. Lehmann D. **Brain Topogr** 1988 Winter;1(2):77–8
Intracerebral dipole sources of EEG FFT power maps. Lehmann D, et al. **Brain Topogr** 1989 Fall–Winter; 2(1–2):155–64
Interdependence of EEG signals: linear vs. nonlinear associations and the significance of time delays and phase shifts. Lopes da Silva F, et al. **Brain Topogr** 1989 Fall–Winter;2(1–2):9–18
Bilateral alpha distribution and anatomic brain asymmetries. Myslobodsky MS, et al. **Brain Topogr** 1989 Summer; 1(4):229–35
EEG asymmetries may be affected by cranial and brain parenchymal asymmetries. Myslobodsky MS, et al. **Brain Topogr** 1989 Summer;1(4):221–8
Topographic EEG in brain ischemia—correlation with blood flow and metabolism. Nagata K. **Brain Topogr** 1988 Winter; 1(2):97–106 (80 ref.)
Topographic EEG mapping in cerebrovascular disease. Nagata K. **Brain Topogr** 1989 Fall–Winter;2(1–2):119–28
Generation of human EEG by a combination of long and short range neocortical interactions. Nunez PL. **Brain Topogr** 1989 Spring;1(3):199–215
Estimation of large scale neocortical source activity with EEG surface Laplacians. Nunez PL. **Brain Topogr** 1989 Fall–Winter;2(1–2):141–54
Localization of multiple dipoles: mathematical programming approaches. Pool KD, et al. **Brain Topogr** 1989 Summer; 1(4):247–55
Topographic mapping of EEG and evoked potentials in psychiatry: delusions, illusions, and realities. Torello MW. **Brain Topogr** 1989 Spring;1(3):157–74 (129 ref.)
Hemi-field pattern visual evoked potentials: a comparison of display and analysis techniques. Towle VL, et al. **Brain Topogr** 1989 Summer;1(4):263–70
Waves earlier than P3 are more informative in putative subcortical dementias: a study with mapping and neuropsychological techniques. Verma NP, et al. **Brain Topogr** 1989 Spring;1(3):183–91
Functional imaging of brain responses to repetitive sensory stimulation: sources estimated from EEG and SPECT. Weinberg H, et al. **Brain Topogr** 1989 Fall–Winter; 2(1–2):171–80
Stability of source estimates in rolandic spikes. Wong PK. **Brain Topogr** 1989 Fall–Winter;2(1–2):31–6
Statistical classification of spikes in benign rolandic epilepsy. Wong PK, et al. **Brain Topogr** 1988 Winter;1(2):123–9
Diphasic EEG effects induced by anticholinesterasic agents in mice. Valente P, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):670–5
Clinical utility of quantified EEG (qEEG) with mapping [letter] **Clin Electroencephalogr** 1990 Jul;21(3):VII–X
Nonmetabolic causes of triphasic waves: a reappraisal. Aguglia U, et al. **Clin Electroencephalogr** 1990 Jul; 21(3):120–5
Unilateral photoconvulsive response in agenesis of the corpus callosum. Brinciotti M, et al. **Clin Electroencephalogr** 1990 Apr;21(2):101–3
Triphasic waves in endocarditis. Ghanem Q, et al. **Clin Electroencephalogr** 1990 Jan;21(1):37–41
Topographic mapping of the EEG in premature infants and neonates. Hughes JR, et al. **Clin Electroencephalogr** 1989 Oct;20(4):228–34
The sharp theta rhythm on the occipital areas of prematures (STOP): a newly described waveform. Hughes JR, et al. **Clin Electroencephalogr** 1990 Apr;21(2):77–87
Computer-analyzed EEG (CEEG) and dynamic brain mapping in AIDS and HIV related syndrome: a pilot study. Itil TM, et al. **Clin Electroencephalogr** 1990 Jul;21(3):140–4
Unreactive EEG: pattern in locked-in syndrome. Jacome DE, et al. **Clin Electroencephalogr** 1990 Jan;21(1):31–6
Periodic complexes and alternating rotatory nystagmus with cyclic pupillary changes. Jacome DE. **Clin Electroencephalogr** 1989 Oct;20(4):262–5
Creutzfeldt-Jakob disease with periodic lateralized discharge: case report. Koshino Y, et al. **Clin Electroencephalogr** 1990 Jul;21(3):129–34
Triphasic sharp waves in a patient with carcinomatous meningitis. Miller B, et al. **Clin Electroencephalogr** 1989 Oct;20(4):259–61
Interhemispheric EEG coherence before and after partial callosotomy. Montplaisir J, et al. **Clin Electroencephalogr** 1990 Jan;21(1):42–7
The electroencephalogram and mental activation. Niedermeyer E, et al. **Clin Electroencephalogr** 1989 Oct; 20(4):215–27
Spindle coma: observations and thoughts. Nogueira de Melo A, et al. **Clin Electroencephalogr** 1990 Jul;21(3):151–61
Reversible cortical blindness (Anton's syndrome) associated with bilateral occipital EEG abnormalities. Roos KL, et al. **Clin Electroencephalogr** 1990 Apr;21(2):104–9
Value of a revised EEG coma scale for prognosis after cerebral anoxia and diffuse head injury. Synek VM. **Clin Electroencephalogr** 1990 Jan;21(1):25–30
Electroencephalogram and HIV infection: a prospective study in 100 patients. Tinuper P, et al. **Clin Electroencephalogr** 1990 Jul;21(3):145–50
Asymmetries of sleep spindles and beta activity in pediatric EEG. Willis J, et al. **Clin Electroencephalogr** 1990 Jan; 21(1):48–50
A prospective study of the predictive value of electroencephalographic abnormalities for epileptic loss of consciousness. Collins S, et al. **Clin Exp Neurol** 1988; 25:103–8
Validity of a revised EEG coma scale for predicting survival in anoxic encephalopathy. Synek VM. **Clin Exp Neurol** 1989;26:119–27
Transition from alpha to theta pattern coma in fatal cerebral anoxia. Synek VM, et al. **Clin Exp Neurol** 1988;25:109–13
Electroencephalographic abnormalities in patients with normal contrast computerised axial tomography brain scans. Synek VM, et al. **Clin Exp Neurol** 1987;24:159–67
Effects of long-term amantadine treatment on clinical symptoms and EEG of a patient in a vegetative state. Horiguchi J, et al. **Clin Neuropharmacol** 1990 Feb; 13(1):84–8
Quantification of the EEG effect of midazolam by aperiodic analysis in volunteers. Pharmacokinetic/pharmacodynamic modelling. Breimer LT, et al. **Clin Pharmacokinet** 1990 Mar;18(3):245–53
Electroencephalographic sleep in schizophrenia: a critical review. Keshavan MS, et al. **Compr Psychiatry** 1990 Jan–Feb;31(1):34–47 (83 ref.)
Dyscontrol syndrome: long-term follow-up. Monroe RR. **Compr Psychiatry** 1989 Nov–Dec;30(6):489–97
On-line detection of transient neuropsychological disturbances during EEG discharges in children with epilepsy. Kasteleijn-Nolst Trenité DG, et al. **Dev Med Child Neurol** 1990 Jan;32(1):46–50
Relevance of EEG to prognosis in hemimegalencephaly [letter; comment] Konkol RJ, et al. **Dev Med Child Neurol** 1989 Dec;31(6):827–8 Comment on: Dev Med Child Neurol 1989 Jun;31(3):377–83.
Neurophysiological studies of L-acetylcarnitine administration in man. Gambi D, et al. **Drugs Exp Clin Res** 1989;15(9):435–46
The EEG Society. London, 2–3 February 1990. Abstracts. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):28P–32P
Abstracts of the XIIth International Congress of Electroencephalography and Clinical Neurophysiology. Rio de Janeiro, Brazil, January 14–19, 1990. **Electroencephalogr Clin Neurophysiol** 1990 Jan; 75(1):S1–165
The EEG Society. Birmingham, 21 June 1989. Abstracts. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):1P–3P
IXth International Congress of Electroencephalography and Clinical Neurophysiology. Amsterdam, The Netherlands. September 4–9, 1977. Abstracts. **Electroencephalogr Clin Neurophysiol** 1977 Oct; 43(4):449–636
Dutch Society for EEG and Clinical Neurophysiology. Utrecht, 7 October 1989. **Electroencephalogr Clin Neurophysiol** 1990 Apr; 75(4):33P–34P
Rocky Mountain Conference on Modern Clinical Neurophysiology, Western EEG Society, Eastern EEG Association, European Alpine EEG Group joint meeting. Park City, UT, 29 January–3 February 1989. Abstracts. **Electroencephalogr Clin Neurophysiol** 1990 Feb; 75(2):4P–10P
Western EEG Society, annual meeting. Santa Monica, CA, 15–16 February 1990. Abstracts. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):33P–36P
Società Italiana di EEG e Neurofisiologia Clinica. Ancona, 23–25 June 1988. Abstracts. **Electroencephalogr Clin Neurophysiol** 1990 Apr; 75(4):11P–32P
Abnormalities of parietal and prerolandic somatosensory evoked potentials in Huntington's disease. Abbruzzese G, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct; 77(5):340–6
Amplitude asymmetry of hemifield pattern reversal VEPs in healthy subjects. Abe Y, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar–Apr; 77(2):81–5
Physicians during and following night call duty—41 hour ambulatory recording of sleep. Akerstedt T, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug;76(2):193–6
Do epileptic foci in children migrate? The pros. Andermann F, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):96–9 (26 ref.)
An application of fractal dimension to the detection of transients in the electroencephalogram. Arle JE, et al. **Electroencephalogr Clin Neurophysiol** 1990 Apr; 75(4):296–305
Effects of chlorpromazine on pattern and flash ERGs and VEPs compared to oxazepam and to placebo in normal subjects. Bartel P, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct; 77(5):330–9
Neuromagnetic field modeling of multiple brain regions producing interictal spikes in human epilepsy. Barth DS, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov; 73(5):389–402
REM sleep deprivation during 5 hours leads to an immediate REM sleep rebound and to suppression of non-REM sleep intensity. Beersma DG, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):114–22
Electroencephalographic studies in "split brain" cats. Berlucchi G. **Electroencephalogr Clin Neurophysiol** 1966 Apr;20(4):348–56
Distribution of temporal spikes in relation to the sphenoidal electrode. Binnie CD, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov;73(5):403–9
Do epileptic foci in children migrate? The cons. Blume WT. **Electroencephalogr Clin Neurophysiol** 1990 Aug;76(2):100–5 (30 ref.)
EEG and pathologic findings in patients undergoing brain biopsy for suspected encephalitis. Brick JF, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):86–9
Effect of partial sleep deprivation on sleep stages and EEG power spectra: evidence for non-REM and REM sleep

homeostasis. Brunner DP, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun;75(6):492–9

Effect of brain lesions on conditioned cortical electropotentials. Chow KL, et al. **Electroencephalogr Clin Neurophysiol** 1966 Apr; 20(4):357–69

Comparison of the magnetoencephalogram and electroencephalogram. Cuffin BN, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):132–46

Quantitative EEG abnormalities and asymmetries in patients with intracranial tumors. Dolisi C, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):13–8

Effects of mnemonic strategy manipulation in a Von Restorff paradigm. Fabiani M, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):22–35

P300 latency indexes nitrogen narcosis. Fowler B, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar;75(3):221–9

Summated human EEG potentials with voluntary movement. Gilden L, et al. **Electroencephalogr Clin Neurophysiol** 1966 May;20(5):433–8

Monitoring brain function during cardiothoracic surgery in children and adults at two levels of hypothermia. Glaría AP, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):268–70

Changes in EEG mean frequency and spectral purity during spontaneous alpha blocking. Goncharova II, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):197–204

Brain electrical field measurements unaffected by linked earlobes reference. Gonzalez Andino SL, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):155–60

Clinical utility of long latency 'cognitive' event-related potentials (P3): the pros. Goodin DS. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):2–5; discussion 1 (18 ref.)

Interburst interval measurements in the EEGs of premature infants with normal neurological outcome. Hahn JS, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov;73(5):410–8

Winner of the Brazier Award. The dysmature EEG pattern in infants with bronchopulmonary dysplasia and its prognostic implications. Hahn JS, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):106–13

Human somatosensory evoked potentials to mechanical pulses and vibration: contributions of SI and SII somatosensory cortices to P50 and P100 components. Hämäläinen H, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):13–21

Effect of sex, psychosocial disadvantages and biological risk factors on EEG maturation. Harmony T, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):482–91

Visual event-related potentials index focused attention within bilateral stimulus arrays. I. Evidence for early selection. Heinze HJ, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun;75(6):511–27

Analysis of rapidly changing EEGs before generalized spike and wave complexes. Inouye T, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):205–21

Clinical correlations of photoparoxysmal responses. Jayakar P, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):251–4

Far-field potentials generated by action potentials of isolated frog sciatic nerves in a spherical volume. Jewett DL, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb; 75(2):105–17

Effects of practice on the P300 in a Go/NoGo task. Jodo E, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):249–57

Correlation of tibial nerve SEPs with the development of seizures in patients with supratentorial cerebral infarcts. Kovala T, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct;77(5):347–52

Alcohol and the auditory brain-stem response, brain temperature, and blood alcohol curves: explanation of a paradox. Lee JA, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct; 77(5):362–75

Intracerebral dipole source localization for FFT power maps. Lehmann D, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep;76(3):271–6

Kindling in the posterior cingulate cortex: electrographic and behavioral characteristics. Leung LS, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):177–86

EEG sleep patterns in man: a twin study. Linkowski P, et al. **Electroencephalogr Clin Neurophysiol** 1989 Oct; 73(4):279–84

Visual event-related potentials index focused attention within bilateral stimulus arrays. II. Functional dissociation of P1 and N1 components. Luck SJ, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):528–42

Usefulness of EEG in the evaluation of brain death in children: the pros. Moshé SL. **Electroencephalogr Clin Neurophysiol** 1989 Oct;73(4):272–5 (19 ref.)

Electrocorticogram during whole body vibration. Nicholson AN, et al. **Electroencephalogr Clin Neurophysiol** 1966 May; 20(5):494–505

Unilateral suppression of vertex sharp waves in the sleep electroencephalogram (case report). Niedermeyer E, et al. **Electroencephalogr Clin Neurophysiol** 1966 Apr;20(4):401–4

Asymmetry in delta activity in patients with focal epilepsy. Panet-Raymond D, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):474–81

Can slow waves in the electrocorticogram (ECoG) help localize epileptic foci? Panet-Raymond D, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):464–73

Clinical utility of long latency 'cognitive' event-related potentials (P3): the cons. Pfefferbaum A, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):6–12; discussion 1 (23 ref.)

Visual evoked potentials in Alzheimer's disease: correlations with age and severity. Philpot MP, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct; 77(5):323–9

EEG amplitudes in healthy, late-middle-aged and elderly adults: normality of the distributions and correlations with age. Pollock VE, et al. **Electroencephalogr Clin Neurophysiol** 1990 Apr; 75(4):276–88

A simple method for 3-dimensional localization of epileptic activity recorded by simultaneous EEG and MEG. Salustri C, et al. **Electroencephalogr Clin Neurophysiol** 1989 Dec; 73(6):473–8

Periodicity analysis of sleep EEG in the second and minute ranges—example of application in different alpha activities in sleep. Scheuler W, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):222–34

Usefulness of EEG in the evaluation of brain death in children: the cons. Schneider S. **Electroencephalogr Clin Neurophysiol** 1989 Oct;73(4):276–8 (21 ref.)

The intracranial topography of the P3 event-related potential elicited during auditory oddball. Smith ME, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):235–48

Cochlear potentials and auditory evoked potentials in the caiman (Caiman crocodilus (L.)). Smolders JW, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb; 75(2):97–104

Cortical topography of premotor and motor potentials preceding self-paced, voluntary movement of dominant and non-dominant hands. Tarkka IM, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):36–43

Electrophysiologic studies on locked-in patients: heterogeneity of findings. Towle VL, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov; 73(5):419–26

A peculiar rhythmic EEG activity from ventrobasal thalamus during paradoxical sleep in man. Velasco M, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):119–25

Reciprocal relationship between the major EEG rhythms and latencies of evoked potential intermediate components. A tentative explanation. Liberson WT. **Electromyogr Clin Neurophysiol** 1989 Nov–Dec; 29(7–8):425–32

Standard EEG might predict the intensity of the vasotocin effects on REM sleep in prepubertal children. Goldstein R, et al. **Endocrinologie** 1989 Jul–Sep;27(3):149–52

Methohexital (Brevital) effect on electrocorticogram may be misleading. Fiol ME, et al. **Epilepsia** 1990 Sep–Oct; 31(5):524–8

Clinicoelectrographic concordance between monozygotic twins with severe myoclonic epilepsy in infancy. Fujiwara T, et al. **Epilepsia** 1990 May–Jun;31(3):281–6

Dipole reversal: an ictal feature of benign partial epilepsy with centrotemporal spikes. Gutierrez AR, et al. **Epilepsia** 1990 Sep–Oct;31(5):544–8

Correlative study of interictal electroencephalogram and aura in complex partial seizures. Janati A, et al. **Epilepsia** 1990 Jan–Feb;31(1):41–6

Acute postictal psychosis: a stereo EEG study. So NK, et al. **Epilepsia** 1990 Mar–Apr;31(2):188–93

Modulation of generalized spike-and-wave discharges during sleep by cyclic alternating pattern. Terzano MG, et al. **Epilepsia** 1989 Nov–Dec;30(6):772–81

Pentobarbital and EEG burst suppression in treatment of status epilepticus refractory to benzodiazepines and phenytoin. Van Ness PC. **Epilepsia** 1990 Jan–Feb; 31(1):61–7

Suppression of inter-ictal spikes by CM40907. A double-blind placebo-controlled investigation and review of spike counting as a methodology for assessing the antiepileptic effect of drugs. Yepez-Lasso R, et al. **Epilepsy Res** 1990 Apr;5(3):247–50

Electroencephalographic vigilance dynamics in multiple sclerosis during an acute episode and after remission. Bräu H, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(5):320–4

Visual search, eeg, and psychopathology in schizophrenic patients. Gaebel W. **Eur Arch Psychiatry Neurol Sci** 1989; 239(1):49–57

Psychomotor disturbances in psychiatric patients as a possible basis for new attempts at differential diagnosis and therapy. IV. Brain dysfunction during motor activation measured by EEG mapping. Günther W, et al. **Eur Arch Psychiatry Neurol Sci** 1989;239(3):194–209

Epileptic seizures following ischaemic cerebral infarction. Clinical picture, CT findings and prognosis. Hornig CR, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):379–83

Diagnostic significance of motor evoked potentials in space-occupying lesions of the brain stem and spinal cord. Zentner J, et al. **Eur Arch Psychiatry Neurol Sci** 1990; 239(5):285–9

Symptomatology in children with focal sharp waves of genetic origin. Doose H. **Eur J Pediatr** 1989 Dec; 149(3):210–5

Effects of seganserin, a 5-HT2 antagonist, and temazepam on human sleep stages and EEG power spectra. Dijk DJ, et al. **Eur J Pharmacol** 1989 Nov 21;171(2–3):207–18

Stroke-related EEG changes during carotid surgery. Krul JM, et al. **Eur J Vasc Surg** 1989 Oct;3(5):423–8

Somatosensory-evoked potentials in the diagnosis of lacunar syndromes: comparison with EEG findings. Abbruzzese G, et al. **Eur Neurol** 1989;29 Suppl 2:42–3

Triphasic waves and cerebral tumors. Aguglia U, et al. **Eur Neurol** 1990;30(1):1–5

Reliability of electroencephalogram in the diagnosis of brain death. Buchner H, et al. **Eur Neurol** 1990;30(3):138–41

Electrophysiological techniques in the assessment of aging brain: lacunar state and differential diagnosis. Onofrij M, et al. **Eur Neurol** 1989;29 Suppl 2:44–7 (10 ref.)

Electric brain potentials evoked by pictures of faces and non-faces: a search for "face-specific" EEG-potentials. Bötzel K, et al. **Exp Brain Res** 1989;77(2):349–60

Membrane potential and impedance changes in hippocampal pyramidal cells during theta rhythm. Fox SE. **Exp Brain Res** 1989;77(2):283–94

Behavioral correlates of theta-on and theta-off cells recorded from hippocampal formation of mature young and aged rats. Mizumori SJ, et al. **Exp Brain Res** 1990;80(2):365–73

Firing relations of lateral septal neurons to the hippocampal theta rhythm in urethane anesthetized rats. Stewart M, et al. **Exp Brain Res** 1990;79(1):92–6

Hormonal disregulation and catamenial epilepsy. Narbone MC, et al. **Funct Neurol** 1990 Jan–Mar;5(1):49–53

The spatial metric of brain underlying the temporal metric of EEG and thought. Weiss V. **Gegenbaurs Morphol Jahrb** 1990;136(1):79–87 (49 ref.)

Effects of head shape on EEG's and MEG's. Cuffin BN. **IEEE Trans Biomed Eng** 1990 Jan;37(1):44–52

On the numerical accuracy of the boundary element method. Meijs JW, et al. **IEEE Trans Biomed Eng** 1989 Oct; 36(10):1038–49

An improved method for localizing electric brain dipoles. Salu Y, et al. **IEEE Trans Biomed Eng** 1990 Jul; 37(7):699–705

Transient lowering of mental activity during performance of a mental task. Kakizaki T. **Ind Health** 1990;28(2):85–96

Abdominal epilepsy. Agrawal P, et al. **Indian J Pediatr** 1989 Jul–Aug;56(4):539–41

The use of electroencephalography in carotid endarterectomy. Chemtob G, et al. **Int Anesthesiol Clin** 1990 Summer;28(3):143–6 (30 ref.)

Electroencephalography for epilepsy surgery. Schachter SC. **Int Anesthesiol Clin** 1990 Summer;28(3):139–42 (23 ref.)

Effects of cavities on EEG dipole localization and their relations with surface electrode positions. He B, et al. **Int J Biomed Comput** 1989 Dec;24(4):269–82

40-Hz EEG activity during hypnotic induction and hypnotic testing. DePascalis V, et al. **Int J Clin Exp Hypn** 1990 Apr;38(2):125–38

EEG and SEMG monitoring during induction and maintenance of anesthesia with propofol. Herregods L, et al. **Int J Clin Monit Comput** 1989 Apr;6(2):67–73

Modifications of the cerebral electric activity induced by the intracerebroventricular injection of acetyl-L-carnitine in cats. Mancia M, et al. **Int J Clin Pharmacol Res** 1990; 10(1–2):115–21

Topographic mapping and habituation of event related EEG alpha band desynchronization. Amochaev A, et al. **Int J Neurosci** 1989 Dec;49(3–4):151–5

The relationship between neuropsychological and late component evoked potential measures in chronic alcoholics. Patterson BW, et al. **Int J Neurosci** 1989 Dec; 49(3–4):319–27

Field model of consciousness: EEG coherence changes as indicators of field effects. Travis FT, et al. **Int J Neurosci** 1989 Dec;49(3–4):203–11

Dynamics of central nervous activation during motor imagination. Beyer L, et al. **Int J Psychophysiol** 1990 Jul; 9(1):75–80

Topographical EEG differences between schizophrenic patients and controls during neuropsychological functional activation. Gruzelier J, et al. **Int J Psychophysiol** 1990 Apr; 8(3):275–82

Event-related desynchronization, ERD-mapping and hemispheric differences for words and numbers. Klimesch W, et al. **Int J Psychophysiol** 1990 Apr;8(3):297–308

Individual differences in electrodermal and electroencephalographic asymmetries. Rippon G. **Int J Psychophysiol** 1990 Apr;8(3):309–20

Ear dominance and laterality of cortical activation identified by event-related desynchronization mapping. Schulter G, et al. **Int J Psychophysiol** 1990 Apr;8(3):283–95

Cognitive event-related potentials and reaction time in presenile subjects with initial mild cognitive decline or probable Alzheimer-type dementia. Zappoli R, et al.

Ital J Neurol Sci 1990 Apr;11(2):113–30
Regional brain electrical asymmetries discriminate between previously depressed and healthy control subjects. Henriques JB, et al. J Abnorm Psychol 1990 Feb; 99(1):22–31
Sleep patterns in borderline personality disorder. Benson KL, et al. J Affective Disord 1990 Apr;18(4):267–73
EEG sleep in adolescents with major depression: the role of suicidality and inpatient status. Dahl RE, et al. J Affective Disord 1990 May;19(1):63–75
A polysomnographic study in young psychiatric inpatients: major depression, anorexia nervosa, bulimia nervosa. Lauer CJ, et al. J Affective Disord 1990 Apr;18(4):235–45
Postural baroreflex stimuli may affect EEG arousal and sleep in humans. Cole RJ. J Appl Physiol 1989 Dec;67(6):2369–75
Visual evoked response in thyroid disorders [letter] Dhamija RM, et al. J Assoc Physicians India 1990 Mar;38(3):246–7
Pulmonary vagal sensory afferents and spontaneous EEG rhythms in the cat sensorimotor cortex. Balzamo E, et al. J Auton Nerv Syst 1990 Jun;30(2):149–57
Changes of slow and steady brain potentials during complex tasks. Cooper R. J Biomed Eng 1990 May;12(3):215–8
The novel dihydronaphthyridine Ca2+ channel blocker CI–951 improves CBF, brain pHi, and EEG recovery in focal cerebral ischemia. Meyer FB, et al. J Cereb Blood Flow Metab 1990 Jan;10(1):97–103
Rhythmic coma in children. Horton EJ, et al. J Child Neurol 1990 Jul;5(3):242–7
Estimating anesthetic depth by electroencephalography during anesthetic induction and intubation in patients undergoing cardiac surgery. Sidi A, et al. J Clin Anesth 1990 Mar–Apr;2(2):101–7
Quantitative monitoring of brain function, vital signs, and hormonal response during acute insulin–induced hypoglycemia. Chalew SA, et al. J Clin Monit 1989 Oct; 5(4):229–35
Perfusion pressure and electroencephalographic changes during cardiopulmonary bypass [letter] Jones BR, et al. J Clin Monit 1989 Oct;5(4):288
Prognostic significance of EEG triphasic waves in patients with altered state of consciousness. Bahamon–Dussan JE, et al. J Clin Neurophysiol 1989 Oct;6(4):313–9
Beta and mu rhythms. Kozelka JW, et al. J Clin Neurophysiol 1990 Apr;7(2):191–207 (125 ref.)
Mechanisms of sleep control. Siegel JM. J Clin Neurophysiol 1990 Jan;7(1):49–65 (100 ref.)
Unusual EEG patterns. Westmoreland BF, et al. J Clin Neurophysiol 1990 Apr;7(2):209–28 (65 ref.)
Focal epilepsies: HM–PAO SPECT compared with CT, MR, and EEG. Cordes M, et al. J Comput Assist Tomogr 1990 May–Jun;14(3):402–9
Abnormal EEG slow activity in left temporal areas in senile dementia of the Alzheimer type. Rice DM, et al. J Gerontol 1990 Jul;45(4):M145–51
Statistical approaches to nonstationary EEGs for the detection of slow vertex responses. Fujikake M, et al. J Med Syst 1989 Jun;13(3):111–29
A coded summation method to measure evoked responses of human beings. Fujikake M, et al. J Med Syst 1989 Oct; 13(5):275–92
Electrophysiologic recording as an aid in the clinical evaluation of "muscle jerks". Wee AS, et al. J Miss State Med Assoc 1990 Apr;31(4):117–22
Diagnostic and research applications of electroencephalographic sleep studies in depression. Conceptual and methodological issues. Buysse DJ, et al. J Nerv Ment Dis 1990 Jul;178(7):405–14 (107 ref.)
The specificity of the characteristic sleep EEG pattern in the fragile–X syndrome [letter] Musumeci SA, et al. J Neurol 1990 Feb;237(1):65–6
Temporal evolution of electroencephalographic abnormalities in Creutzfeldt–Jakob disease. Schlenska GK, et al. J Neurol 1989 Dec;236(8):456–60
Acute effects of electromagnetic stimulation of the brain on cortical activity, cortical blood flow, blood pressure and heart rate in the cat: an evaluation of safety. Eyre JA, et al. J Neurol Neurosurg Psychiatry 1990 Jun;53(6):507–13
Is the EEG really normal in lacunar stroke? Kappelle LJ, et al. J Neurol Neurosurg Psychiatry 1990 Jan;53(1):63–6
Sensory and cognitive event–related potentials in myalgic encephalomyelitis. Prasher D, et al. J Neurol Neurosurg Psychiatry 1990 Mar;53(3):247–53
Exploration–dependent modulation of evoked responses in fascia dentata: dissociation of motor, EEG, and sensory factors and evidence for a synaptic efficacy change. Green EJ, et al. J Neurosci 1990 May;10(5):1455–71
Investigation of multiple simultaneously active brain sources in the electroencephalogram. Baumgartner C, et al. J Neurosci Methods 1989 Nov;30(2):175–84
Real–time spectral intensity analysis of the EEG on a common microcomputer. Williams CE, et al. J Neurosci Methods 1990 Apr;32(1):9–13
Comparative electroencephalographic and behavioral effects of phencyclidine, (+)–SKF–10,047 and MK–801 in rats. Marquis KL, et al. J Pharmacol Exp Ther 1989 Dec; 251(3):1104–12
Spontaneous EEG changes during tobacco abstinence and nicotine substitution in human volunteers. Pickworth WB, et al. J Pharmacol Exp Ther 1989 Dec;251(3):976–82
Computerized EEG. Forming a mental image. Hundley J, et al. J Psychosoc Nurs Ment Health Serv 1990 Feb; 28(2):19–23
The role of neuroimaging in the clinical practice of epilepsy—with a special reference to the correlative studies on the epileptogenic foci. Asakura T, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):401–2
Psychological intervention can partly alter P300–amplitude abnormalities in schizophrenics. Fukuda M, et al. Jpn J Psychiatry Neurol 1989 Dec;43(4):633–8
Epileptic seizures in a patient with mitochondrial myopathy, encephalopathy, lactic acidosis and strokelike episodes (MELAS). Hori A, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):536–7
EEG analysis in patients with senile dementia and Alzheimer's disease. Horie T, et al. Jpn J Psychiatry Neurol 1990 Mar;44(1):91–8
Concordance and discordance between PET images and foci of scalp EEG. Iinuma K, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):379–83
Intractable epilepsy in infancy with hyperfolic acidemia, not associated with megaloblastic anemia. Inagaki M, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):492–4 (5 ref.)
Reexamination of 123I–IMP–SPECT at interictal stages in adult partial epilepsy. Jibiki I, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):385–8
Basic mechanism of epileptogenicity—consideration from studies of acute kindling. Jibiki I, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):451–3 (9 ref.)
Mechanism of occurrence of PLEDs: observations by SPECT and X–ray CT with lapse of time. Kawai K, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):542–3
Brief, complicated motor seizure. Kobayashi S, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):530–2
Relationship between CT–findings and electrical focus in epileptic patients. Kyoi K, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):337–47
MRI lesion and epileptogenic focus in temporal lobe epilepsy. Matsuda K, et al. Jpn J Psychiatry Neurol 1989 Sep; 43(3):393–400
A physiological marker for assessing anxiety level in humans: frontal midline theta activity. Mizuki Y, et al. Jpn J Psychiatry Neurol 1989 Dec;43(4):619–26
Seizure–triggering mechanisms in the kindling model of epilepsy: collapse of GABA–mediated inhibition and activation of NMDA receptors. Morimoto K. Jpn J Psychiatry Neurol 1989 Sep;43(3):459–63
The GABAergic role of the epileptogenesis in the El mouse. Murashima YL, et al. Jpn J Psychiatry Neurol 1989 Sep; 43(3):557–8
Results of corpus callosum section in two patients with Lennox–Gastaut syndrome. Nii Y, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):500–1
Lennox–Gastaut syndrome: a developmental study. Ohtsuka Y, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):482–4
Supplementary motor area kindling in the photosensitive baboons. Sakai S, et al. Jpn J Psychiatry Neurol 1989 Sep; 43(3):571–2
Quantitative autoradiographic study of benzodiazepine receptors: comparative study between normal ddY mouse and El mouse. Shirasaka Y, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):563–4
Complex partial seizures with unilateral discharge originating from temporal lobe. Sue H, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):519–21
The seizure mechanisms of an epileptic mutant animal. Suzuki J, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):455–7
Anterior–posterior relationships of EEG in photosensitive subjects: coherence and cross–phase–spectral analysis. Takasaka Y, et al. Jpn J Psychiatry Neurol 1989 Dec; 43(4):651–63
Surgical treatment of experimental limbic status epilepticus. Tanaka T, et al. Jpn J Psychiatry Neurol 1989 Sep; 43(3):502–3
A correlative study between hippocampal atrophy quantified by tomo–pneumoencephalography and epileptogenic focus in temporal lobe epilepsy. Tottori T, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):538–41
Epileptogenic focus and MRI—the study of MRI and EEG of no relation to epileptogenic focus. Uetsuhara K, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):389–92
Kindling of the visual cortex in cats: comparison with amygdaloid kindling. Wada Y, et al. Jpn J Psychiatry Neurol 1989 Jun;43(2):245–53
Focal CT abnormality and epileptogenic focus. Yagi K, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):373–7
Long–term enhancement of excitatory amino acid receptor–mediated polyphosphoinositide hydrolysis in the hippocampus and amygdala/pyriform cortex of hippocampal kindled rats. Yamada N, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):565–6
Three cases with secondary generalized epilepsy caused by frontal organic lesion. Yamashita S, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):485–6
Clinical study of epileptic children with history of febrile convulsion. Yamatani M, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):490–1
Studies on mechanisms of initiation and propagation of seizure activity following penicillin application. Yamauchi T, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):445–9
A peculiar state observed in 4 patients with severe myoclonic epilepsy in infancy. Yasuda S, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):533–5
The relation between EEG and mental development following cardiac surgery performed under simple deep hypothermia in children. Iwamoto I, et al. Jpn J Surg 1990 Mar;20(2):158–62
Effects of GABA–ergic agents on spontaneous non–convulsive epilepsy, EEG and behaviour, in the WAG/RIJ inbred strain of rats. Peeters BW, et al. Life Sci 1989;45(13):1171–6
Clinical neurophysiologic studies in stiff–man syndrome: use of simultaneous video–electroencephalographic–surface electromyographic recording. Armon C, et al. Mayo Clin Proc 1990 Jul;65(7):960–7
Expert system approach to detection of epileptiform activity in the EEG. Davey BL, et al. Med Biol Eng Comput 1989 Jul;27(4):365–70
Spectral analysis of EEG responses. Jervis BW, et al. Med Biol Eng Comput 1989 May;27(3):230–8
EEG mapping: current status and future prospects. Pfurtscheller G. Med Prog Technol 1988–89;14(2):89–97
Apomorphine–induced alterations in cortical EEG activity of rats. Involvement of D–1 and D–2 dopamine receptors. Kropf W, et al. Naunyn Schmiedebergs Arch Pharmacol 1989 Dec;340(6 Pt 2):718–25
Cerebral–activating (EEG) properties of two inverse agonists and of an antagonist at the benzodiazepine receptor in the rat. Santucci V, et al. Naunyn Schmiedebergs Arch Pharmacol 1989 Jul; 340(1):93–100
All night spectral analysis of EEG sleep in young adult and middle–aged male subjects. Dijk DJ, et al. Neurobiol Aging 1989 Nov–Dec;10(6):677–82
Computer analysis of EEG activity in dementia of the Alzheimer's type and Huntington's disease. Streletz LJ, et al. Neurobiol Aging 1990 Jan–Feb;11(1):15–20
Contribution of EEG mapping to diagnosis setting in a supratentorial damage. Psatta DM, et al. Neurol Psychiatr (Bucur) 1990 Apr–Jun;28(2):87–96
Role of the medullary vasomotor centre in the development of plateau waves. Ishii H, et al. Neurol Res 1989 Sep; 11(3):186–90
Topographic EEG brain mapping in cerebrovascular disease and dementia. Lechner H, et al. Neurologija 1989;38(1):3–10
Human hippocampal EEG: effects of behavioral activation. Huh K, et al. Neurology 1990 Aug;40(8):1177–81
Myoclonic status epilepticus: a clinical and electroencephalographic study. Jumao–as A, et al. Neurology 1990 Aug;40(8):1199–202
Neonatal herpes simplex meningoencephalitis: EEG investigations and clinical correlates. Mikati MA, et al. Neurology 1990 Sep;40(9):1433–7
Computerized EEG frequency analysis: sensitivity and specificity in patients with focal lesions [see comments] Oken BS, et al. Neurology 1989 Oct;39(10):1281–7 Comment in: Neurology 1990 Jun;40(6):1008.
Ictal localization of temporal lobe seizures with scalp/sphenoidal recordings. Risinger MW, et al. Neurology 1989 Oct;39(10):1288–93
EEG frequency analysis [letter; comment] Rodin E. Neurology 1990 Jun;40(6):1008 Comment on: Neurology 1989 Oct;39(10):1281–7.
Combined depth and subdural electrode investigation in uncontrolled epilepsy. Spencer SS, et al. Neurology 1990 Jan;40(1):74–9
Focal functional anatomy of dorsolateral frontocentral seizures. Sutherling WW, et al. Neurology 1990 Jan; 40(1):87–98
Rarity of EEG photo–paroxysmal and photo–myogenic responses following treated alcohol–related seizures. Vossler DG, et al. Neurology 1990 Apr;40(4):723–4
Rett syndrome: an EEG study in 52 girls. Robb SA, et al. Neuropediatrics 1989 Nov;20(4):192–5
Age–dependent ECoG spectrum power alterations are reduced by phosphatidylserine in rats. Bagetta G, et al. Neuropharmacology 1989 Sep;28(9):985–9
Behavioural and ECoG spectrum changes induced by intracerebral infusion of interferons and interleukin 2 in rats are antagonized by naloxone. De Sarro GB, et al. Neuropharmacology 1990 Feb;29(2):167–79
Behavioural and electrocortical effects after injection of two ornithine decarboxylase inhibitors into several areas of the brain in the rat. De Sarro GB, et al. Neuropharmacology 1989 Nov;28(11):1245–51
Cortical EEG changes during the self–administration of phencyclinoids. Marquis KL, et al. Neuropharmacology 1989 Nov;28(11):1193–8
Effects of the enkephalinase inhibitor SCH 34826 on the sleep–waking cycle and EEG activity in the rat. Trampus M, et al. Neuropharmacology 1990 Mar;29(3):199–205
Rett's syndrome: a neurophysiological study. Espinar–Sierra J, et al. Neurophysiol Clin 1990 Apr;20(1):35–42
Localization of epileptogenic foci using a new signal analytical approach. Pijn JP, et al. Neurophysiol Clin 1990 Apr;20(1):1–11
Differences between paranoid and nonparanoid schizophrenic patients on the somatosensory P300 event–related potential. Louză MR, et al. Neuropsychobiology 1989;21(2):59–66
Comparison of the effects of lamotrigine and phenytoin on the EEG power spectrum and cortical and brainstem–evoked responses of normal human volunteers. van Wieringen A, et al. Neuropsychobiology 1989; 21(3):157–69
Brain plasticity as a basis for recovery of function in humans. Bach–y–Rita P. Neuropsychologia 1990;28(6):547–54

Neurophysiological heterogeneity and the definition of dyslexia: preliminary evidence for plasticity. Duffy FH, et al. **Neuropsychologia** 1990;28(6):555–71

Functional regulation of activity of rat hippocampus neurons transplanted into rabbit septum. Kichigina VF, et al. **Neurosci Behav Physiol** 1989 Sep–Oct;19(5):367–73

Generator mechanisms of epileptic potentials analyzed by dipole tracing method. Homma S, et al. **Neurosci Lett** 1990 May 31;113(2):181–6

Do event-related potentials to infrequent decrements in duration of auditory stimuli demonstrate a memory trace in man? Näätänen R, et al. **Neurosci Lett** 1989 Dec 15; 107(1–3):347–52

Dipole-tracing of abnormal slow brain potentials after cerebral stroke—EEG, PET, MRI correlations. Nakajima Y, et al. **Neurosci Lett** 1990 Apr 20;112(1):59–64

Relationship between the cortical choline acetyltransferase content and EEG delta-power. Riekkinen P Jr, et al. **Neurosci Res** 1990 Apr;8(1):12–20

Magnetic mu rhythm in man. Tiihonen J, et al. **Neuroscience** 1989;32(3):793–800

Epidural peg electrodes for the presurgical evaluation of intractable epilepsy. Barnett GH, et al. **Neurosurgery** 1990 Jul;27(1):113–5

Electroencephalographical analysis of acute paraquat poisoning. Tokunaga I, et al. **Nippon Hoigaku Zasshi** 1990 Feb;44(1):1–5

Retention of orienting reaction habituation in chronic alcoholics. Rogozea R, et al. **Pavlov J Biol Sci** 1990 Jan–Mar;25(1):1–13

Automated identification and quantitation of four patterns of electrocortical activity in the near-term fetal lamb. McNerney ME, et al. **Pediatr Res** 1990 Aug;28(2):106–10

Psychogenic seizures in children and adolescents: outcome after diagnosis by ictal video and electroencephalographic recording. Wyllie E, et al. **Pediatrics** 1990 Apr;85(4):480–4

EEG spectral changes during one-dimensional hand-tracking. Indra M, et al. **Percept Mot Skills** 1990 Apr; 70(2):386

Effects of nonsedating histamine H1-antagonists on EEG activity and behavior in the cat. Marzanatti M, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):861–6

EEG and behavioural effects of polyamines (spermine and spermidine) on rabbits. Bo P, et al. **Pharmacol Res** 1990 Jul–Aug;22(4):481–91

Behavioural, ECoG and neuropathological effects after intracerebral injection of MPP+ and paraquat in rats. Iannone M, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:43–4

Behavioural, electrocortical power spectrum and body temperature effects of ribavirin in the rat. Naccari F, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:33–4

EEG in anaesthetized rats. Sim MK, et al. **Pharmacol Toxicol** 1989 Aug;65(2):119–20

Vasopressin-deficient rats show a reduced amplitude of the circadian sleep rhythm. Brown MH, et al. **Physiol Behav** 1989 Oct;46(4):759–62

The role of the pontis oralis in the generation of RSA activity in the hippocampus of the guinea pig. Faris PD, et al. **Physiol Behav** 1990 Jun;47(6):1193–9

Hippocampal electrical activity during social interactions in rabbits living in a seminatural environment. Fontani G, et al. **Physiol Behav** 1990 Jan;47(1):175–83

Changes in electric activity (EEG) of the telencephalon of conscious toads (Bufo paracnemis) caused by cholinergic stimulation of the mesencephalic tegmentum. Hoffmann A, et al. **Physiol Behav** 1990 May;47(5):857–61

Time of day, repeated testing, and interblock interval effects on P300 amplitude. Wesensten NJ, et al. **Physiol Behav** 1990 Apr;47(4):653–8

The effect of combined treatment with ethanol and imipramine or amitriptyline on rabbit EEG. Czarnecka E, et al. **Pol J Pharmacol Pharm** 1989 May–Jun;41(3):239–46

The effect of microinjections of clonidine into the locus coeruleus on cortical EEG in rats. Danysz W, et al. **Pol J Pharmacol Pharm** 1989 Jan–Feb;41(1):45–50

Syntactic analysis of the experimental epileptic EEG. Rump S, et al. **Pol J Pharmacol Pharm** 1988 Nov–Dec; 40(6):585–92

Event-related potentials in schizophrenia. Straumanis JJ. **Psychiatr Med** 1990;8(1):53–72 (107 ref.)

Magnetoencephalography in prospective clinical routine. Lefebre C, et al. **Psychiatry Res** 1989 Sep;29(3):375–6

Longitudinal sleep EEG, temperature, and activity measurements across the menstrual cycle in patients with premenstrual depression and in age-matched controls. Parry BL, et al. **Psychiatry Res** 1989 Dec;30(3):285–303

Evoked potential augmenting-reducing in psychopaths and criminals with impaired smooth-pursuit eye movements. Raine A, et al. **Psychiatry Res** 1990 Jan;31(1):85–98

EEG alpha photic driving abnormalities in chronic schizophrenia. Rice DM, et al. **Psychiatry Res** 1989 Dec; 30(3):313–24

Psychological, topographic EEG, and CT scan correlates of frontal lobe function in schizophrenia. Williamson PC, et al. **Psychiatry Res** 1989 Aug;29(2):137–49

Adult age differences in the speed and capacity of information processing: 2. An electrophysiological approach. Strayer DL, et al. **Psychol Aging** 1987 Jun; 2(2):99–110

Diminished TSH release after a course of ECT: altered monoamine function or seizure activity? Scott AI, et al. **Psychoneuroendocrinology** 1989;14(6):425–31

Further observations on the effects of subhypnotic doses of midazolam in normal volunteers. Domino EF, et al. **Psychopharmacol Bull** 1989;25(3):460–5

Evidence for circadian influence on human slow wave sleep during daytime sleep episodes. Campbell SS, et al. **Psychophysiology** 1989 Sep;26(5):580–5

Event-related potentials, spatial orienting, and reading disabilities. Harter MR, et al. **Psychophysiology** 1989 Jul; 26(4):404–21

Modulation of event-related potentials by word repetition: the effects of inter-item lag. Nagy ME, et al. **Psychophysiology** 1989 Jul;26(4):431–6

Self-report during feedback regulation of slow cortical potentials. Roberts LE, et al. **Psychophysiology** 1989 Jul; 26(4):392–403

Brain potentials during selective attention, memory search, and mental rotation. Wijers AA, et al. **Psychophysiology** 1989 Jul;26(4):452–67

Nocturnal studies in enuretics. A polygraphic study of sleep-EEG and bladder activity. Nørgaard JP, et al. **Scand J Urol Nephrol Suppl** 1989;125:73–8

Are gender differences in schizophrenia reflected in brain event-related potentials? Josiassen RC, et al. **Schizophr Bull** 1990;16(2):229–46

The role of the electroencephalogram in neurologic practice. Andriola MR. **Semin Neurol** 1990 Jun;10(2):156–65 (89 ref.)

Evoked potentials and Doppler vascular studies in hydranencephaly. Gururaj AK, et al. **Singapore Med J** 1989 Feb;30(1):109–12

The EEG and epilepsy [editorial] Tan CB. **Singapore Med J** 1989 Oct;30(5):424–5

Effects of continuous positive airway pressure on phasic events of REM sleep in patients with obstructive sleep apnea. Aldrich M, et al. **Sleep** 1989 Oct;12(5):413–9

Decrease in delta sleep in growth hormone deficiency assessed by a new power spectrum analysis. Aström C, et al. **Sleep** 1989 Dec;12(6):508–15

Cerebral anoxic attacks in sleep apnea syndrome. Cirignotta F, et al. **Sleep** 1989 Oct;12(5):400–4

Decrease of slow-wave sleep in children with prolonged absence of essential lipids intake. Fagioli I, et al. **Sleep** 1989 Dec;12(6):495–9

Nocturnal rocking bed therapy: improvement in sleep fragmentation in patients with respiratory muscle weakness. Iber C, et al. **Sleep** 1989 Oct;12(5):405–12

Sleep pattern alterations and brief airway obstructions in overweight infants. Kahn A, et al. **Sleep** 1989 Oct; 12(5):430–8

Twenty-four-hour structure of sleepiness in morning and evening persons investigated by ultrashort sleep-wake cycle [published erratum appears in Sleep 1990 Apr;13(2):203] Lavie P, et al. **Sleep** 1989 Dec;12(6):522–8

The detection of sleep onset: behavioral, physiological, and subjective convergence. Ogilvie RD, et al. **Sleep** 1989 Oct; 12(5):458–74

Surgical treatment of epilepsy: initial results based upon epidural electroencephalographic recordings. Kuzniecky R, et al. **South Med J** 1990 Jun;83(6):637–9

Cerebral blood flow, glucose utilization, and electrocorticograms following common carotid artery occlusion in gerbils. Hasegawa Y, et al. **Stroke** 1990 Jan; 21(1):112–8

Kappa-opioid receptor changes and neurophysiological alterations during cerebral ischemia in rabbits. Scavini C, et al. **Stroke** 1990 Jun;21(6):943–7

Selective electroencephalograph-guided microsurgical callosotomy for refractory generalized epilepsy. Marino R Jr, et al. **Surg Neurol** 1990 Oct;34(4):219–28

Fourier analysis of the surface electrocardiogram: a new noninvasive method to detect acute rejection after orthotopic heart transplantation in humans. Weber M, et al. **Transplant Proc** 1990 Aug;22(4):1460–1

Do septal neurons pace the hippocampal theta rhythm? Stewart M, et al. **Trends Neurosci** 1990 May;13(5):163–8

Brain bioelectric activity in aging. Kuznetsova SM, et al. **Z Gerontol** 1989 Sep–Oct;22(5):222–7 (50 ref.)

The P300 amplitude of the event-related brain potential indicates changes within a frame-of-reference. Junghanns G, et al. **Z Psychol** 1989;197(4):387–94

[A comparative study of EEG in patients with neurological and myxedematous cretinism] Wu BM, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Aug;28(8):450–3, 507 (Eng. Abstr.) (Chi)

[EEG analysis of healthy adults in the highlands of Xining] Gao Y. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):338–40, 382 (Eng. Abstr.) (Chi)

[Relation of circulating immunocomplexes and epileptic discharges in the electroencephalograms (EEG) of epileptic patients] Yang J. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Jun; 23(3):178–81, 192 (Eng. Abstr.) (Chi)

[Electrophysiological studies of acute anoxic hypoxia] Hsu CC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Dec;5(12):670–5 (Eng. Abstr.) (Chi)

[Effect on electroacupuncture on experimental epilepsy—power spectrum analysis of EEG] He XP, et al. **Sheng Li Hsueh Pao** 1990 Apr;42(2):141–8 (Eng. Abstr.) (Chi)

[Practical output of the results of computerized EEG frequency analysis] Kuba M, et al. **Cesk Neurol Neurochir** 1990 Mar;53(2):101–6 (Eng. Abstr.) (Cze)

[Significance of EEG findings in administering anticonvulsant drugs to adults with compensated epilepsy which began in childhood] Chromová L, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(5):611–6 (Eng. Abstr.) (Cze)

[Longitudinal monitoring of electroencephalographic findings in patients with transitory ischemic attacks] Melcherová L, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(5):537–41 (Eng. Abstr.) (Cze)

[Correlation of Doppler echocardiography and EEG findings in stenotic processes in the carotid arteries] Spaček M, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(5):605–9 (Eng. Abstr.) (Cze)

[The diagnosis of dementia: current neurophysiological studies and brain mapping] De Wit P. **Acta Neurol Belg** 1989 May–Oct;89(3–4):141–9 (Dut)

[The EEG in neurological practice; shifts in the diagnosis (letter)] **Ned Tijdschr Geneeskd** 1989 Dec 16;133(50):2521–7 (Dut)

[The EEG in neurology practice; shifts in diagnosis] Posthumus Meyjes FE, et al. **Ned Tijdschr Geneeskd** 1989 Oct 7;133(40):1970–4 (34 ref.) (Dut)

[Partial epilepsy in children in Algeria. Electroclinical and tomodensitometric study] Slimani S, et al. **Acta Neurol Belg** 1989 Mar–Apr;89(2):81–6 (Eng. Abstr.) (Fre)

[EEG monitoring in anesthesia] **Agressologie** 1989 Nov–Dec; 30(11–12):567–616 (Fre)

[Spectrum analysis of the electroencephalographic signal using the Life-Scan method during the early months of life] Bensouda A, et al. **Agressologie** 1989 Nov–Dec; 30(11–12):587–8 (Eng. Abstr.) (Fre)

[Continuous spectrum analysis during anesthesia and the recovery period in infants under 1 year of age] Meyer P, et al. **Agressologie** 1989 Nov–Dec;30(11–12):581–4 (Eng. Abstr.) (Fre)

[Monitoring of cerebral function. Limits and values] Roujas F, et al. **Agressologie** 1989 Nov–Dec;30(11–12):597–9 (Eng. Abstr.) (Fre)

[Monitoring of cerebral ischemia: current data and review of results based on the ischemic carotid model] Tempelhoff R, et al. **Agressologie** 1989 Nov–Dec;30(11–12):591–4 (Eng. Abstr.) (Fre)

[Ambiguities and discrepancies in EEG monitoring during anesthesia] Weber B. **Agressologie** 1989 Nov–Dec; 30(11–12):575–8 (Eng. Abstr.) (Fre)

[An unusual cause of EEG artefact: waterbeds] Brunel MF, et al. **Ann Fr Anesth Reanim** 1989;8(4):362–4 (Eng. Abstr.) (Fre)

[Dysphagia, speech disorders and centrotemporal spikes-waves] Boulloche J, et al. **Arch Fr Pediatr** 1990 Feb; 47(2):115–7 (Eng. Abstr.) (Fre)

[The use of flumazenil at a pediatric surgical resuscitation unit] Sfez M, et al. **Cah Anesthesiol** 1989 Oct;37(6):439–41 (Fre)

[EEG and behavioral effects of deprivation of paradoxical sleep in cats] Vimont-Vicary P, et al. **Electroencephalogr Clin Neurophysiol** 1966 May; 20(5):439–49 (Eng. Abstr.) (Fre)

[Atypical aspects of the electroencephalogram in subacute sclerosing panencephalitis] Brimani DJ, et al. **Neurophysiol Clin** 1990 May;20(2):95–103 (Eng. Abstr.) (Fre)

[Contribution of EEG to the diagnosis of epilepsy in Shanghai] Chen J, et al. **Neurophysiol Clin** 1989 Aug; 19(4):291–6 (Eng. Abstr.) (Fre)

["Benign" form of myoclonic epilepsy in children] Dulac O, et al. **Neurophysiol Clin** 1990 May;20(2):115–29 (Eng. Abstr.) (Fre)

[Evolution of the conditions for EEG recording in the diagnosis of brain death] Levy-Alcover MA, et al. **Neurophysiol Clin** 1989 Aug;19(4):271–8 (Eng. Abstr.) (Fre)

[Contribution of the EEG and evoked potentials in the prognosis of post-anoxic comas in children] Parain D, et al. **Neurophysiol Clin** 1989 Dec;19(6):489–94 (Eng. Abstr.) (Fre)

[Interaction of diazepam and levodropropizine evaluated with quantitative EEG] Arrigo A, et al. **Riv Eur Sci Med Farmacol** 1989 Feb;11(1):51–4 (Eng. Abstr.) (Fre)

[Initial epileptic crisis after the age of 60: etiology, clinical aspects and EEG] Henny C, et al. **Schweiz Med Wochenschr** 1990 May 26;120(21):787–92 (Eng. Abstr.) (Fre)

[Pharmacokinetic studies on the causes of increased neurotoxicity of lidocaine during heart surgery] Olthoff D, et al. **Anaesthesiol Reanim** 1989;14(4):207–14 (Eng. Abstr.) (Ger)

[The effect of sufentanil in high doses on hemodynamics and electroencephalography activity in coronary patients] Stephan H, et al. **Anaesthesist** 1989 Oct;38(10):510–8 (Eng. Abstr.) (Ger)

[Cognitive processes in unconscious patients? A brain mapping study of the P300 potential] Reuter BM, et al. **Arch Psychol (Frankf)** 1989;141(3):155–73 (Eng. Abstr.) (Ger)

[Monitoring in anesthesiology—effects of isoflurane on

electrophysiologic values] Litscher G, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:103–4 (Ger)

[Simulated epileptiform discharges during the replay of a lengthy EEG recording] Bassetti C, et al. **EEG EMG** 1990 Mar;21(1):42–4 (Eng. Abstr.) (Ger)

[Role of electroencephalography in the neurological diagnosis of HIV] Enzensberger W, et al. **EEG EMG** 1989 Dec;20(4):234–7 (Eng. Abstr.) (Ger)

[Event-related potentials and memory capacity: 1. A comparison of intentional and incidental learning modes] Heinze HJ, et al. **EEG EMG** 1990 Jun;21(2):82–6 (Eng. Abstr.) (Ger)

[Neurophysiological studies in HIV infection (editorial)] Henkes H, et al. **EEG EMG** 1989 Dec;20(4):233 (Ger)

[EEG and SPECT in cerebral manifestations of AIDS] Henkes H, et al. **EEG EMG** 1989 Dec;20(4):248–56 (Eng. Abstr.) (Ger)

[Mapping of EEG and evoked potentials: an aid in the clinical decision process? Comments on the article by R. Verleger] Maurer K, et al. **EEG EMG** 1989 Sep;20(3):136–8 (Ger)

[The significance of EMG artefacts in isoelectric EEG] Mayr N, et al. **EEG EMG** 1990 Mar;21(1):56–8 (Eng. Abstr.) (Ger)

[The variability of the number and daily distribution of spike wave seizures in two 24-hour long-term EEG recordings made one shortly after the other] Mayr N, et al. **EEG EMG** 1989 Sep;20(3):185–8 (Eng. Abstr.) (Ger)

[Event-related potentials and memory capacity: 2. Recognition of words] Münte TF, et al. **EEG EMG** 1990 Jun;21(2):87–91 (Eng. Abstr.) (Ger)

[Event-related brain potentials reflect semantic and syntactic errors during language processing] Münte TF, et al. **EEG EMG** 1990 Jun;21(2):75–81 (Eng. Abstr.) (Ger)

[EEG findings during the course of HIV infection] Schnurbus R, et al. **EEG EMG** 1989 Dec;20(4):238–42 (Eng. Abstr.) (Ger)

[The prognosis of convulsions in the newborn—the place of EEG in comparison with echoencephalography] Staudt F. **EEG EMG** 1990 Jun;21(2):118–25 (Eng. Abstr.) (Ger)

[Spectral power density and coherence in sleep EEG in patients with acquired immunodeficiency syndrome] Terstegge K, et al. **EEG EMG** 1989 Dec;20(4):302–9 (Eng. Abstr.) (Ger)

[Comments on the analysis of the P300 components using brain mapping] Verleger R. **EEG EMG** 1989 Sep; 20(3):133–5 (Eng. Abstr.) (Ger)

[Neurophysiologic principles and clinical value of post-convulsive serum prolactin determination in epileptic seizure] Bauer J, et al. **Fortschr Neurol Psychiatr** 1989 Nov; 57(11):457–68 (89 ref.) (Eng. Abstr.) (Ger)

[Narcolepsy syndrome—clinical aspects, diagnosis, therapy] Dressler D, et al. **Fortschr Neurol Psychiatr** 1989 Oct; 57(10):440–9 (72 ref.) (Eng. Abstr.) (Ger)

[Sleep in anorexia nervosa, bulimia nervosa and depressive diseases: a polysomnographic comparative study] Lauer C, et al. **Fortschr Neurol Psychiatr** 1989 Oct;57(10):403–10 (Eng. Abstr.) (Ger)

[Diagnostic value of the early auditory evoked potentials in acute cranio-cerebral trauma in children] Küttner K, et al. **Kinderarztl Prax** 1990 Jan;58(1):37–43 (Eng. Abstr.) (Ger)

[EEG findings in ALL patients 10 years following irradiation and cytostatic therapy] König R, et al. **Klin Padiatr** 1990 May–Jun;202(3):153–6 (Eng. Abstr.) (Ger)

[Brain death, death of the cerebral cortex or personal death? On the current discussion of brain-oriented determination of death] Kurthen M, et al. **Med Klin** 1989 Oct 15; 84(10):483–7 (23 ref.) (Ger)

[The significance of EEG findings in somnambulism] Fehlow P. **Padiatr Grenzgeb** 1990;29(1):53–7 (Eng. Abstr.) (Ger)

[Electrolyte disorders, EEG changes and epileptic seizures in alcohol withdrawal delirium] Schmickaly R, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Dec; 41(12):722–9 (Eng. Abstr.) (Ger)

[Sleep disorders from the neurological viewpoint] Henn V. **Schweiz Rundsch Med Prax** 1990 May 8;79(19):583–8 (Eng. Abstr.) (Ger)

[Changes in the EEG frequency spectrum in various phases of mental stress] Mecklinger A, et al. **Z Exp Angew Psychol** 1989;36(3):453–75 (Eng. Abstr.) (Ger)

[Significance of serum prolactin determination in the differential diagnosis of psychogenic seizures—exemplified by 2 case reports] Schmitt GM, et al. **Z Kinder Jugendpsychiatr** 1990 Mar;18(1):29–34 (Eng. Abstr.) (Ger)

[Possibilities of objective assessment of the course of activation in ideomotor training] Weiss T, et al. **Z Psychol** 1989;197(3):295–313 (Eng. Abstr.) (Ger)

[Dream interpretation and experimental dream research: a comparison] Riemann D. **Z Psychosom Med Psychoanal** 1990;36(1):21–38 (63 ref.) (Eng. Abstr.) (Ger)

[Computerized tomography and electroencephalography findings in post-traumatic brain edema] Meier U, et al. **Zentralbl Neurochir** 1989;50(1):42–4 (Eng. Abstr.) (Ger)

[EEG findings following cerebral surgery] Pittasch D, et al. **Zentralbl Neurochir** 1989;50(2):118–21 (Eng. Abstr.) (Ger)

[Usefulness of ambulatory EEG in detecting critical and intercritical events in patients with epilepsy or with suspected epilepsy] Pellegrini A, et al. **Riv Neurol** 1989 Sep–Oct;59(5):167–71 (Eng. Abstr.) (Ita)

[Triphasic waves in dementia syndromes] Primavera A, et al. **Riv Neurol** 1989 Jul–Aug;59(4):146–9 (Eng. Abstr.) (Ita)

[A case of epilepsy presenting periodic synchronous discharges and recruiting rhythm for a long time] Mohri Y, et al. **Hokkaido Igaku Zasshi** 1989 Nov;64(6):761–8 (Eng. Abstr.) (Jpn)

[Power spectral analysis of EEG during simple deep hypothermia under ether anesthesia] Andoh T, et al. **Masui** 1989 Jun;38(6):765–70 (Eng. Abstr.) (Jpn)

[Aperiodic analysis of EEG in children during halothane anesthesia] Kitahara Y, et al. **Masui** 1990 Mar;39(3):396–402 (Eng. Abstr.) (Jpn)

[The changes in EEG, evoked potentials and neurological recovery after global brain ischemia in dogs] Ono K. **Masui** 1990 May;39(5):572–80 (Eng. Abstr.) (Jpn)

[Baseline study of sleep electroencephalography—daily variation and individual variation] Kimura K, et al. **Nippon Eiseigaku Zasshi** 1989 Jun;44(2):567–78 (Eng. Abstr.) (Jpn)

[Clinical and pathological evaluation of periodic synchronous discharge observed in advanced dementia of Alzheimer type] Imazu O. **Nippon Ika Daigaku Zasshi** 1990 Feb; 57(1):13–21 (Eng. Abstr.) (Jpn)

[Effect of thyrotropin-releasing hormone (TRH) on EEG topography] Naito H, et al. **Nippon Seirigaku Zasshi** 1990; 52(7):229–37 (Eng. Abstr.) (Jpn)

[The cortical EEG in the acallosal mouse] Okada Y, et al. **Nippon Seirigaku Zasshi** 1989;51(6):165–71 (Eng. Abstr.) (Jpn)

[Differential effects of isoflurane and nitrous oxide on cerebral blood flow, metabolism and electrocorticogram after incomplete cerebral ischemia in the rat] Ishikawa T, et al. **Nippon Yakurigaku Zasshi** 1989 Jul;94(1):73–80 (Eng. Abstr.) (Jpn)

[Electroencephalographic study with buspirone, a novel nonbenzodiazepine anxiolytic, and its major metabolite, 1-(2-pyrimidinyl)piperazine (1-PP), in rabbits] Kawasaki H, et al. **Nippon Yakurigaku Zasshi** 1990 Mar;95(3):91–104 (Eng. Abstr.) (Jpn)

[Usefulness of intracranial pressure monitoring and EEG analysis in a child with acute encephalitis] Goto K, et al. **No To Hattatsu** 1989 Jul;21(4):374–8 (Eng. Abstr.) (Jpn)

[Special application of EEG and evoked potential studies for practice of childhood epilepsy] Iinuma K, et al. **No To Hattatsu** 1990 Mar;22(2):126–32 (Eng. Abstr.) (Jpn)

[Epilepsy and sleep: with special reference to nonconvulsive status epilepticus with continuous diffuse spike-waves during slow-wave sleep] Kobayashi K, et al. **No To Hattatsu** 1990 Mar;22(2):136–42 (Eng. Abstr.) (Jpn)

[An analysis of ictal EEGs by a newly developed ambulatory cassette EEG system] Kohsaka S, et al. **No To Hattatsu** 1990 Jan;22(1):30–7 (Eng. Abstr.) (Jpn)

[Developmental characteristics of the beta waves of EEG in normal healthy children] Ogawa T, et al. **No To Hattatsu** 1989 Sep;21(5):424–9 (Eng. Abstr.) (Jpn)

[An application of autoregressive model to pattern discrimination of brain electrical activity mapping] Ogawa T, et al. **No To Hattatsu** 1989 Jul;21(4):340–7 (Eng. Abstr.) (Jpn)

[Usefulness and limitation of clinical electroencephalography: from the clinical standpoint] Okada K. **Rinsho Byori** 1990 Jun;38(6):657–63 (Eng. Abstr.) (Jpn)

[Quantitative pharmaco-EEG study of nootropics] Kinoshita T. **Seishin Shinkeigaku Zasshi** 1990;92(5):255–76 (Eng. Abstr.) (Jpn)

[A clinical and electroencephalographic study of juvenile myoclonic epilepsy: its pathophysiological considerations based on the findings obtained from neuropsychological EEG activation] Matsuoka H. **Seishin Shinkeigaku Zasshi** 1989;91(5):318–46 (Eng. Abstr.) (Jpn)

[EEG study of patients with various depressive disorders] Mori T, et al. **Seishin Shinkeigaku Zasshi** 1989;91(9):616–21 (Jpn)

[Value of electroencephalographic examination in the diagnosis of chronic carbon dioxide poisoning] Langauer-Lewowicka H, et al. **Med Pr** 1989;40(5):310–4 (Eng. Abstr.) (Pol)

[Electroencephalographic study of patients with panic disorders] Cordás TA, et al. **AMB Rev Assoc Med Bras** 1989 Mar–Apr;35(2):67–9 (Eng. Abstr.) (Por)

[The hypothalamus in neurosurgical patients (pathologo-anatomic and clinico-electroencephalographic correlations)] Medvedev IuA, et al. **Arkh Patol** 1989; 51(6):37–43 (Eng. Abstr.) (Rus)

[One result in the task of simulating a human electroencephalogram] Khizhun AF. **Biofizika** 1989 Sep–Oct;34(5):909–10 (Eng. Abstr.) (Rus)

[Calculation of parameters of neuronal network model on the basis of analysis of power spectra of rat brain biopotentials] Medvedev AV, et al. **Biofizika** 1989 Nov–Dec;34(6):1028–30 (Eng. Abstr.) (Rus)

[Relations between anxiolytic effects of diazepam and changes in the EEG spectral power] Bogdanov NN, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):199–202 (Eng. Abstr.) (Rus)

[Computed analysis of brain electrograms under the action of psychotropic drugs] Omel'chenko VP, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):18–22 (Eng. Abstr.) (Rus)

[Resonance phenomena in the EEG during photostimulation with a changing burst frequency. 2. Regional characteristics of the resonance effects] Fedochev AI, et al. **Fiziol Cheloveka** 1989 Jul–Aug;15(4):3–10 (Rus)

[Interhemispheric correlations of the EEG activation during graphic-image and verbal thinking] Shcheblanova EI. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):17–21 (Rus)

[Validation of the connection of the nature of the EEG and the modes of visual perception determined by the Rorschach test] Zhirmunskaia EA, et al. **Fiziol Cheloveka** 1990 Jan–Feb;16(1):45–52 (Rus)

[Work capacity and space-time organization of cerebral biopotentials in operators against a background of rhythmic light interference] Petrenko ET. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):23–6 (Eng. Abstr.) (Rus)

[The possibility of using cerebral evoked potentials in the diagnosis of fatigue in flight personnel] Ponomarenko VA, et al. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):21–3 (Eng. Abstr.) (Rus)

[The serotoninergic mechanism and the experimental therapy of sleep disorders in desynchronization] Gromov LA, et al. **Patol Fiziol Eksp Ter** 1990 Mar–Apr;(2):22–3 (Eng. Abstr.) (Rus)

[Human EEG reactions to discontinuous light exposures of different frequencies] Fedotchev AI, et al. **Usp Fiziol Nauk** 1990 Jan–Mar;21(1):97–109 (95 ref.) (Rus)

[Electroencephalographic studies in psoriasis] Liu ChKh, et al. **Vestn Dermatol Venerol** 1990;(3):27–8 (Eng. Abstr.) (Rus)

[Quantitative EEG indices in sailors with various levels of success in occupational activities in extreme situations] Bukharin AN, et al. **Voen Med Zh** 1989 Sep;(9):44–7 (Rus)

[The spectral characteristics of the electroencephalogram of the toad Bufo bufo L. during the active and passive behavior of the animal in its circadian cycle] Vataev SI. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):555–8 (Eng. Abstr.) (Rus)

[The information value of the EEG in the acute period of subarachnoid hemorrhage as a consequence of rupture of intracranial aneurysms] Lebedev VV, et al. **Zh Vopr Neirokhir** 1989 Sep–Oct;(5):44–9 (Eng. Abstr.) (Rus)

[The modelling of theta rhythm regulation by an increasing afferent inflow in septal slices in vitro] Belousov AB, et al. **Zh Vyssh Nerv Deiat** 1989 Sep–Oct;39(5):924–34 (Eng. Abstr.) (Rus)

[The neuronal impulse activity of the preoptic area in the rabbit during electrocorticographic correlates of wakefulness and slow-wave sleep] Burikov AA, et al. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec;39(6):1146–8 (Rus)

[Spectral-correlative characteristics of the EEG reactions preceding conditioned reflex motor reactions in dogs] Dumenko VN, et al. **Zh Vyssh Nerv Deiat** 1989 May–Jun; 39(3):458–68 (Eng. Abstr.) (Rus)

[A comparison of the spike train activity of the cortical neurons and of the spatial synchronization of the EEG] Pavlova IV, et al. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec; 39(6):1087–95 (Eng. Abstr.) (Rus)

[The effect of photostimulation with various colors on the working electroencephalogram and human motor efficiency] Petrenko ET, et al. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug;39(4):746–8 (Rus)

[The reflection of emotional tension in the spatial synchronization of the biopotentials in the human brain] Rusalova MN. **Zh Vyssh Nerv Deiat** 1990 Mar–Apr; 40(2):254–62 (Eng. Abstr.) (Rus)

[The dynamics of the activating and inhibitory types of cortical neuron synchronization during the realization of a defensive reflex and internal inhibition] Shul'gina GI, et al. **Zh Vyssh Nerv Deiat** 1990 May–Jun;40(3):508–17 (Eng. Abstr.) (Rus)

[The dynamic characteristics of the interhemispheric correlations of the EEG during the recovery of human neuropsychic activities] Zhavoronkova LA. **Zh Vyssh Nerv Deiat** 1990 Mar–Apr;40(2):238–46 (Eng. Abstr.) (Rus)

[Creutzfeldt-Jakob disease (clinico-electroencephalographic study] Dimitrijević J, et al. **Med Arh** 1988;42(1–2):61–5 (Eng. Abstr.) (Scr)

[Mapping electroencephalography. New possibilities of electroencephalography in the diagnosis of diseases of the central nervous system] Mihajlović M. **Vojnosanit Pregl** 1989 Sep–Oct;46(5):341–4 (Scr)

[Periodic discharges in clinical electroencephalography] Pristaľová E, et al. **Cesk Neurol Neurochir** 1989 Oct; 52(6):397–402 (Eng. Abstr.) (Slo)

[Electroencephalographic maturation in preterm newborn infants] Doménech E, et al. **An Esp Pediatr** 1989 Sep; 31(3):221–8 (Eng. Abstr.) (Spa)

[The role of neonatal electroencephalography in the prognosis of the hypoxic-ischemic syndrome] Martínez Bermejo A, et al. **An Esp Pediatr** 1990 Jan;32(1):7–10 (29 ref.) (Eng. Abstr.) (Spa)

[Brain mapping studies in dyslexia] García de León M, et al. **Arch Neurobiol (Madr)** 1989 Sep–Oct;52(5):228–33 (Eng.

Abstr.) (Spa)
[EEG with peak focal discharges in children without epileptic crises] Pascual Pascual SI, et al. **Neurologia** 1986 Jul–Aug;1(4):147–9 (Eng. Abstr.) (Spa)
[Flat electroencephalogram with pupillary miosis (letter)] Ramírez Pérez A, et al. **Neurologia** 1989 Jan–Feb;4(1):31–2 (Spa)
[Evaluation of hepatic encephalopathy using computerized electroencephalography] De la Torre Gutiérrez S, et al. **Rev Esp Enferm Apar Dig** 1989 Aug;76(2):138–43 (Eng. Abstr.) (Spa)

CLASSIFICATION

[The interpretation of an expert classification of the human EEG in machine analysis terms] Zhirmunskaia EA, et al. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):31–40 (Rus)

DRUG EFFECTS

The effect of isofloxythepine in EEG. Hynek K, et al. **Act Nerv Super (Praha)** 1989 Dec;31(4):261
Does ephedrine influence newborn neurobehavioural responses and spectral EEG when used to prevent maternal hypotension during caesarean section? Kangas–Saarela T, et al. **Acta Anaesthesiol Scand** 1990 Jan;34(1):8–16
Lithium treatment of aggressive children and the EEG. Somogyi I, et al. **Acta Paediatr Hung** 1988–89; 29(3–4):365–72
Influence of protective drugs on the EEG during short–term transient ischaemia. Lantos J, et al. **Acta Physiol Hung** 1990; 75(3):217–27
Neuroelectric processes in individuals at risk for alcoholism. Begleiter H, et al. **Alcohol Alcohol** 1990;25(2–3):251–6 (48 ref.)
Progressive changes in electroencephalographic responses to nitrous oxide in humans: a possible acute drug tolerance. Avramov MN, et al. **Anesth Analg** 1990 Apr;70(4):369–74
The rate of CSF formation, resistance to reabsorption of CSF, and aperiodic analysis of the EEG following administration of flumazenil to dogs. Artru AA. **Anesthesiology** 1990 Jan; 72(1):111–7
Naloxone antagonizes behavioural and ECoG effects induced by systemic or intracerebral administration of some lymphokines. De Sarro GB, et al. **Ann Ist Super Sanita** 1990;26(1):99–106
The influence of sodium diethyldithiocarbamate on behavior and EEG in cats and rabbits. Trąbka J, et al. **Arch Immunol Ther Exp (Warsz)** 1971;19(5):567–76
Therapeutic effects of antimotion sickness medications on the secondary symptoms of motion sickness. Wood CD, et al. **Aviat Space Environ Med** 1990 Feb;61(2):157–61
Effects of systemic atropine sulfate administration on the frequency content of the cat sensorimotor EEG during sleep and waking. Szymusiak R, et al. **Behav Neurosci** 1990 Feb;104(1):217–25
EEG sleep studies in "pure" primary alcoholism during subacute withdrawal: relationships to normal controls, age, and other clinical variables. Gillin JC, et al. **Biol Psychiatry** 1990 Mar 1;27(5):477–88
Persistent electroencephalographic alterations following administration of some volatile anaesthetics. Kavan EM, et al. **Br J Anaesth** 1974 Oct;46(10):714–21
Detection of an atropine–resistant component of the hippocampal theta rhythm in urethane–anesthetized rats. Stewart M, et al. **Brain Res** 1989 Oct 23;500(1–2):55–60
Breakthrough seizures with generic carbamazepine? [letter] Hartley R, et al. **Dev Med Child Neurol** 1990 May; 32(5):460–2
The use of a calcium–channel blocker, nicardipine, for severely asphyxiated newborn infants. Levene MI, et al. **Dev Med Child Neurol** 1990 Jul;32(7):567–74
Effects of self–reported drug use and antisocial behavior on evoked potentials in adolescents. Pickworth WB, et al. **Drug Alcohol Depend** 1990 Feb;25(1):105–10
An EEG–behavioral study of sodium hydroxybutyrate in humans. Metcalf DR, et al. **Electroencephalogr Clin Neurophysiol** 1966 May; 20(5):506–12
Quantitative EEG analysis of carbamazepine effects on amygdaloid kindled seizures in cats. So N, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):63–72
Influence of thyroid hormone supply on EEG frequency spectrum. Pohunková D, et al. **Endocrinol Exp** 1989 Dec; 23(4):251–8
Effects of the removal of phenytoin, carbamazepine, and valproate on the electroencephalogram. Duncan JS, et al. **Epilepsia** 1989 Sep–Oct;30(5):590–6
Difference in action between oral triazolam and zopiclone. Aantaa R, et al. **Eur J Clin Pharmacol** 1990;38(1):47–51
Different effects of 8–OH–DPAT, a 5–HT1A receptor agonist, on cortical acetylcholine release, electrocortigram and body temperature in guinea pigs and rats. Siniscalchi A, et al. **Eur J Pharmacol** 1990 Jan 10;175(2):219–23
Zopiclone versus triazolam in insomniac geriatric patients: a specific increase in delta sleep with zopiclone. Mouret J, et al. **Int Clin Psychopharmacol** 1990 Apr;5 Suppl 2:47–55
Long term efficacy and withdrawal of zopiclone: a sleep laboratory study. Pecknold J, et al. **Int Clin Psychopharmacol** 1990 Apr;5 Suppl 2:57–67
Valproate sodium in epilepsy. A clinical trial including monitoring of drug levels. Mehrotra TN, et al. **J Assoc Physicians India** 1990 Apr;38(4):277–9
D,L–threo–3, 4–DOPS enhances rapid eye movement sleep in patients with congenital dopamine beta–hydroxylase deficiency. Tulen JH, et al. **J Clin Psychopharmacol** 1990 Feb;10(1):73–4
Hydergine treatment and psychophysiological measures in primary degenerative dementia. Kuskowski MA, et al. **J Geriatr Psychiatry Neurol** 1990 Jan–Mar;3(1):41–7
Behavioral and electroencephalographic effects of a depot type neuroleptic fluphenazine decanoate, in rats. Yamamoto T, et al. **J Pharmacobiodyn** 1989 Nov;12(11):681–92
Jerk–locked averaging and somatosensory evoked potential in tricyclic–induced myoclonus: a case report. Fukuzako H, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):645–9
Effects of zopiclone on sleep spindles studied with an improved waveform recognition method. Iwata T, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):669–74
Determination of pharmacodynamics of diazepam by quantitative pharmaco–EEG. Iwaya N, et al. **Jpn J Psychiatry Neurol** 1989 Dec;43(4):675–84
Two kinds of spatiotemporal EEG changes after discontinuation of benzodiazepine, medazepam. Manmaru S, et al. **Jpn J Psychiatry Neurol** 1990 Mar;44(1):85–90
Effectiveness of bromazepam in children with complex partial seizures. Nakamigawa T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):495–7
Effectiveness and plasma levels of sodium valproate monotherapy in the treatment of epilepsies in children: a further study. Shirai H, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):517–8
TDM trial in the seizure clinic of mental hospital, particular investigation for refractory cases. Takeuchi M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):504–6
Wet–dog shakes in amygdaloid methionine–enkephalin kindling and electrical kindling. Tanaka T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):567–8
Analyses of epileptics who have been intractable but entered prolonged remission afterwards without medications. Ueda S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):507–8
Tannins inhibit the occurrence of epileptic focus induced by FeCl3 injection in rats. Yokoi I, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):552–3
Influence of repeated vitamin B administration on the frequency pattern analysed from rat brain electrical activity (Tele–Stereo–EEG). Dimpfel W, et al. **Klin Wochenschr** 1990 Jan 19;68(2):136–41
Dose–dependent atropine–induced changes in spontaneous electroencephalogram in human volunteers. Pickworth WB, et al. **Milit Med** 1990 Apr;155(4):166–70
Electrophysiological indices of central and peripheral nervous system function during theophylline therapy. Bartel P, et al. **Neuropsychobiology** 1989;21(2):104–8
Effect of drugs acting on monoaminergic and cholinergic systems on the quantified EEG of rats. Emilien G. **Neuropsychobiology** 1989;21(4):205–15
Short–term effects of temazepam in the EEGs of healthy volunteers. Janssen FH, et al. **Neuropsychobiology** 1989; 22(2):72–6
Effects of the selective alpha 1–adrenoceptor blocker prazosin on EEG sleep and waking stages in the rat. Kleinlogel H. **Neuropsychobiology** 1989;21(2):100–3
Effects of low–yield cigarettes on electroencephalographic dynamics. Knott VJ. **Neuropsychobiology** 1989; 21(4):216–22
Event–related potentials and visual spatial attention: influence of a cholinergic drug. Münte TF, et al. **Neuropsychobiology** 1989;21(2):94–9
Effects of trimipramine on sleep EEG, penile tumescence and nocturnal hormonal secretion. A long–term study in 3 normal controls. Steiger A, et al. **Neuropsychobiology** 1989;21(2):71–5
Evaluation of cognitive skills in ethanol– and cocaine–dependent patients during detoxification using P300 evoked response potentials (ERPs). Amass L, et al. **NIDA Res Monogr** 1989;95:353–4
Behavioral and EEG studies of acute cocaine administration: comparisons with morphine, amphetamine, pentobarbital, nicotine, ethanol and marijuana. Lukas SE, et al. **NIDA Res Monogr** 1989;95:146–51
Amplitude modulated frequency response during acute cocaine intoxication in rabbits. O'Connor S, et al. **NIDA Res Monogr** 1989;95:331–2
Neurolectic correlates of nonsteroidal analgesia. O'Connor S, et al. **NIDA Res Monogr** 1989;95:397–8
MIF–1 can accelerate neuromotor, EEG and behavioral development in mice. d'Amore A, et al. **Peptides** 1990 May–Jun;11(3):527–32
EEG effects of Ro 15–4513 and FG 7142 alone and in combination with ethanol. Ehlers CL, et al. **Pharmacol Biochem Behav** 1990 Jul;36(3):607–11
Involvement of the "peripheral" benzodiazepine receptor type (omega 3) in the tolerance to the electroencephalographic effects of benzodiazepines in rats: comparison of diazepam and clonazepam. Massotti M, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):933–6
Acute interactive pharmacologic effects of inhaled toluene and dichloromethane on rat brain electrophysiology. Rebert CS, et al. **Pharmacol Biochem Behav** 1990 Jun; 36(2):351–65
Behavioral and electrophysiological effects of crustacean neurohormone on freely moving cats. Martínez–Gómez M, et al. **Physiol Behav** 1989 Dec;46(6):983–92
An EEG and behavioural study on the interactions of clonidine with phencyclidine and ketamine in rats. Popoli P, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):237–47
Topographical sleep EEG response to arecoline. Joseph KC, et al. **Psychiatry Res** 1990 Apr;35(1):91–4
Clomipramine and EEG sleep in depression. Kupfer DJ, et al. **Psychiatry Res** 1989 Nov;30(2):165–80
Topographic mapping of pharmaco–EEG before and after application of phosphatidylserine. Rupprecht R, et al. **Psychiatry Res** 1989 Sep;29(3):417–8
Effects of combined superoxide dismutase and deferoxamine on recovery of brainstem auditory evoked potentials and EEG after asphyxial cardiac arrest in dogs. Cerchiari EL, et al. **Resuscitation** 1990 Jan;19(1):25–40
The influence of N2–O2 and He–O2 saturation diving on electroencephalogram of human bodies. Shi ZY, et al. **Sci China [B]** 1989 Dec;32(12):1436–48
Aspirin and nonfebrile waking oral temperature in healthy men and women: links with SWS changes? Horne JA. **Sleep** 1989 Dec;12(6):516–21
Effects on sleep: a double–blind study comparing trimipramine to imipramine in depressed insomniac patients. Ware JC, et al. **Sleep** 1989 Dec;12(6):537–49
Lidocaine accelerates neuroelectrical recovery after incomplete global ischemia in rabbits. Rasool N, et al. **Stroke** 1990 Jun;21(6):929–35
[Effects of huperzine A on electroencephalography power spectrum in rabbits] Guan LC, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):496–500 (Eng. Abstr.) (Chi)
[Electroencephalographic effects of induction by sodium gamma–hydroxybutyrate in children] Ducloux B, et al. **Cah Anesthesiol** 1989 Dec;37(8):559–64 (Fre)
[Electroencephalographic study of the effect of a benzodiazepine antagonist in hepatic encephalopathy] Pidoux B, et al. **Neurophysiol Clin** 1989 Dec;19(6):469–76 (Eng. Abstr.) (Fre)
[The effects of ketamine on the electroencephalogram—typical patterns and spectral representations] Schultz A, et al. **Anaesthesist** 1990 Apr; 39(4):222–5 (Eng. Abstr.) (Ger)
[The central nervous system arousing effects of ketamine are decreased by addition of midazolam. A post–anesthesia study of patients following maxillary surgery with spontaneous respiration] Freye E, et al. **Anasth Intensivther Notfallmed** 1989 Dec;24(6):368–72 (Eng. Abstr.) (Ger)
[Beta activation following the intravenous administration of benzodiazepines and the specific antagonist flumazenil (Ro 15–1788)] Suttmann H, et al. **EEG EMG** 1990 Mar; 21(1):20–8 (Eng. Abstr.) (Ger)
[Acoustically evoked brain stem potentials in acute alcoholic intoxication] Klemm B, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Feb;42(2):102–6 (Eng. Abstr.) (Ger)
[Influence of intrathecal morphine and buprenorphine on EEG and their analgesic effect] Yonemura E, et al. **Masui** 1990 Apr;39(4):478–86 (Eng. Abstr.) (Jpn)
[Buspirone: correlation of its anxiolytic and electroencephalographic effects] Bogdanov NN, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):270–2 (Eng. Abstr.) (Rus)
[Electrographic correlates of the antiamnestic action of nootropic agents following deprivation of the paradoxical sleep phase] Nerobkova LN, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):697–700 (Eng. Abstr.) (Rus)
[The effect of acetylcholine on shifts in the spatial synchronization of the cortical potentials in the rabbit evoked by the reversible interruption of the mammillary body connections] Kurova NS, et al. **Zh Vysh Nerv Deiat** 1989 Sep–Oct;39(5):906–13 (Eng. Abstr.) (Rus)

HISTORY

Sixty years of clinical electroencephalography. Karbowski K. **Eur Neurol** 1990;30(3):170–5
[The 60th anniversary of clinical electroencephalography] Karbowski K. **Schweiz Rundsch Med Prax** 1989 Jul 18; 78(29–30):797–8 (Ger)
[The history of epileptology and electroencephalography with special reference to the Swiss and Polish contributions] Karbowski K. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):751–6 (Ger)

INSTRUMENTATION

Imaging of MR–compatible intracerebral depth electrodes. Duckwiler GR, et al. **AJNR** 1990 Mar–Apr;11(2):353–4
Prediction of neurological damage after cardiopulmonary bypass surgery. Use of the cerebral function analysing monitor. Nevin M, et al. **Anaesthesia** 1989 Sep;44(9):725–9
Human evoked potentials to shifts in the lateralization of a noise. McEvoy LK, et al. **Audiology** 1990;29(3):163–80
Intensive neurodiagnostic monitoring in psychiatry. Sachdev PS. **Aust N Z J Psychiatry** 1990 Jun;24(2):227–37 (93 ref.)
Lower–bandpass filter frequency in P3 experiments: a possible cause for divergent results in schizophrenia research. Ebmeier KP, et al. **Biol Psychiatry** 1990 Mar 15; 27(6):667–70
EEG fast frequency activity in the sons of alcoholics. Ehlers CL, et al. **Biol Psychiatry** 1990 Mar 15;27(6):631–41

A software package for event related potential experiments. Varner JL, et al. **Biomed Sci Instrum** 1990;26:231–3
Clinical evaluation of the augmented delta quotient monitor for intraoperative electroencephalographic monitoring of children during surgery and cardiopulmonary bypass for repair of congenital cardiac defects. Burrows FA, et al. **Br J Anaesth** 1989 Nov;63(5):565–73
Computer analysis of cortical evoked potentials following severe head injury. Alter I, et al. **Brain Inj** 1990 Jan–Mar; 4(1):19–26
Anterior temporal (T1/T2) electrodes in the evaluation of patients with seizure disorders [letter] Bromfield E, et al. **Clin Electroencephalogr** 1989 Oct;20(4):VII–VIII
Monitoring seizure duration during ECT [letter; comment] Kramer BA, et al. **J Clin Psychiatry** 1990 Jan;51(1):38–9 Comment on: J Clin Psychiatry 1989 Apr;50(4):140–2.
Second pain event related potentials to argon laser stimuli: recording and quantification. Arendt-Nielsen L. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):405–10
First pain event related potentials to argon laser stimuli: recording and quantification. Arendt-Nielsen L. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):398–404
EEG spectral analysis in delirium. Koponen H, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):980–5
High-frequency components in epileptiform EEG. Huang CM, et al. **J Neurosci Methods** 1989 Dec;30(3):197–201
Electroclinical correlation examined by simultaneous VTR-EEG monitoring in a patient with complex partial status epilepticus. Fukunishi I, et al. **Jpn J Psychiatry Neurol** 1989 Jun;43(2):177–81
Dynamic EEG topography in epileptic seizures. Kanazawa O, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):544–5
Composed dynamic topography for spike and sharp wave. Kowada M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):369–72
A microcomputer used for spectral power EEG mapping based on source derivation. Psatta DM, et al. **Neurol Psychiatr (Bucur)** 1990 Apr-Jun;28(2):79–86
Intracranial EEG electrodes [letter; comment] Kuzniecky R, et al. **Neurology** 1990 Jun;40(6):1009–10 Comment on: Neurology 1989 Nov;39(11):1497–504.
P300 evoked by an auditory and a visual paradigm and a semantic task. Dierks T, et al. **Psychiatry Res** 1989 Sep; 29(3):439–41
Brain mapping of EEG in autogenic training (AT). Dierks T, et al. **Psychiatry Res** 1989 Sep;29(3):433–4
Brain electrical activity mapping: clinical applications. Duffy FH. **Psychiatry Res** 1989 Sep;29(3):379–84
EEG mapping in a child with Rett syndrome. Faienza C, et al. **Psychiatry Res** 1989 Sep;29(3):425–6
Dementia of the Alzheimer type: some features of the posterior cerebral electrical activity. Filipovic S, et al. **Psychiatry Res** 1989 Sep;29(3):409–10
Topographic brain mapping and evaluation of dyslexic children. Flynn JM, et al. **Psychiatry Res** 1989 Sep; 29(3):407–8
Brain electrical activity mapping in different stages of SDAT. Fuenfgeld EW. **Psychiatry Res** 1989 Sep;29(3):411–2
Pathological cerebral blood blow and corpus callosum abnormalities in schizophrenia: relations to EEG mapping and PET data. Guenther W, et al. **Psychiatry Res** 1989 Sep;29(3):453–5
Topographic EEG and flash visual evoked potentials in elderly subjects, depressed patients, and demented patients. Guidi M, et al. **Psychiatry Res** 1989 Sep;29(3):403–6
Staging in dementia of the Alzheimer type: topography of electrical brain activity reflects the severity of the disease. Ihl R, et al. **Psychiatry Res** 1989 Sep;29(3):399–401
Electrical brain activity and cerebral blood flow in dementia of the Alzheimer type. Ihl R, et al. **Psychiatry Res** 1989 Sep;29(3):449–52
Schizophrenia-like psychosis associated with an arachnoid cyst visualized by mapping of EEG and P300. Lanczik M, et al. **Psychiatry Res** 1989 Sep;29(3):421–3
The effect of pyritinol upon P300 topography. Maurer K, et al. **Psychiatry Res** 1989 Sep;29(3):413–5
Altered P300 topography due to functional and structural disturbances in the limbic system in dementia and psychoses and to pharmacological conditions. Maurer K, et al. **Psychiatry Res** 1989 Sep;29(3):391–3
Computerized electroencephalographic topography (CET) during sleep: topographic hypnograms. Maurer K, et al. **Psychiatry Res** 1989 Sep;29(3):435–8
Functional brain imaging (mapping of EEG) in relation to psychopathologic changes in schizophrenia. Mueller T, et al. **Psychiatry Res** 1989 Sep;29(3):419–20
Gilles de la Tourette syndrome: EEG and mapping. Neufeld MY, et al. **Psychiatry Res** 1989 Sep;29(3):427
Brain electrical activity topographical maps produced in response to olfactory and chemosensory stimulation. Van Toller S, et al. **Psychiatry Res** 1989 Sep;29(3):429–30
Digital brain atlas for structure localization in CT combined with EEG mapping. von Keyserlingk DG, et al. **Psychiatry Res** 1989 Sep;29(3):461–2
Comparison of untreated and treated schizophrenic patients, normals, and neuroleptic-treated normals: "hypofrontality" and different EEG spectra before and during voluntary movement. Westphal KP, et al. **Psychiatry Res** 1989 Sep; 29(3):395–8
Estimation of trial-to-trial variation in evoked potential signals by smoothing across trials. Turetsky BI, et al. **Psychophysiology** 1989 Nov;26(6):700–12
Paperless electroencephalography. Nuwer MR. **Semin Neurol** 1990 Jun;10(2):178–84 (10 ref.)
Decrease in delta sleep in growth hormone deficiency assessed by a new power spectrum analysis. Aström C, et al. **Sleep** 1989 Dec;12(6):508–15
Sex differences in the sleep EEG of young adults: visual scoring and spectral analysis. Dijk DJ, et al. **Sleep** 1989 Dec;12(6):500–7
[A microcomputer-based neuromonitoring system with simultaneous detection of EEG and evoked potentials] Hinrichs H, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:194–5 (Ger)
[Recording sites and recording distances in topographic bipolar recording of visual evoked potentials] Schippers V, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:192–3 (Ger)
[Multivariable long-term monitoring of cerebral and cardiovascular values using a personal computer] Steller E, et al. **Biomed Tech (Berlin)** 1990 May;35(5):90–7 (Eng. Abstr.) (Ger)
[A system for continuous digitizing and evaluation of 32 biosignals from all-night sleep leads] Jobert M, et al. **EEG EMG** 1989 Sep;20(3):178–84 (Eng. Abstr.) (Ger)
[Recording of visual evoked potentials in infants: characteristics and optimization of the method] Kau T, et al. **Fortschr Ophthalmol** 1989;86(5):497–501 (Eng. Abstr.) (Ger)
[Basic emotions. Phenomenology, psychodynamics, EEG spectral analysis] Machleidt W, et al. **Monogr Gesamtgeb Psychiatr (Berlin)** 1989;57:1–251 (Ger)
[EEG and evoked potential mapping] Zwiener U, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Feb;42(2):65–78 (24 ref.) (Eng. Abstr.) (Ger)
[Benign Rolandic epilepsy in children. Topographic EEG analysis] Graf M, et al. **Wien Klin Wochenschr** 1990 Mar 30;102(7):206–10 (Eng. Abstr.) (Ger)
[Focal epilepsy: generation and spreading mechanisms in experimental conditions] Pockberger H. **Wien Klin Wochenschr** 1990 Mar 30;102(7):201–5 (6 ref.) (Eng. Abstr.) (Ger)
[Constitutional peculiarities of the bioelectric activity of the brain] Kusnezowa SM, et al. **Z Gerontol** 1990 Jan–Feb; 23(1):56–8 (Eng. Abstr.) (Ger)
[The new cassette EEG recording system: its application to epileptic children] Kohsaka S. **No To Hattatsu** 1990 Mar; 22(2):133–5 (Eng. Abstr.) (Jpn)

METHODS

The EEG time series parametrization method in the study of nociception. Blinowska KJ, et al. **Acta Neurobiol Exp (Warsz)** 1989;49(4):193–206
Normal pattern of the cerebral function monitor trace in term and preterm neonates. Thornberg E, et al. **Acta Paediatr Scand** 1990 Jan;79(1):20–5
Detection of epileptiform activity by different noninvasive EEG methods in complex partial epilepsy. Goodin DS, et al. **Ann Neurol** 1990 Mar;27(3):330–4
Estimating the importance of epileptiform abnormalities discovered on cassette electroencephalographic monitoring. Bridgers SL, et al. **Arch Neurol** 1989 Oct; 46(10):1077–9
Age-adjusted threshold values for reduced REM latency in unipolar depression using ROC analysis. Giles DE, et al. **Biol Psychiatry** 1990 Apr 15;27(8):841–53
Effect of hyperventilation on seizure length during electroconvulsive therapy. Pande AC, et al. **Biol Psychiatry** 1990 Apr 1;27(7):799–801
Quantitative, waking EEG research on depression. Pollock VE, et al. **Biol Psychiatry** 1990 Apr 1;27(7):757–80 (125 ref.)
Replication of an evoked potential study of lateralized hemispheric dysfunction in schizophrenics. Roemer RA, et al. **Biol Psychiatry** 1990 Aug 15;28(4):275–91
EEG monitoring of ECT [letter; comment] Jones EM. **Br J Psychiatry** 1989 Jun;154:880–1 Comment on: Br J Psychiatry 1989 Feb;154:229–31.
Practical administration of ECT [letter] Littlejohns CS. **Br J Psychiatry** 1989 Aug;155:265
Inter- and intra-individual probability maps in EEG cartography by use of nonparametric Fisher tests. Etévenon P, et al. **Brain Topogr** 1989 Fall-Winter;2(1–2):81–9
Brain mapping or spatial analysis? Harner RN. **Brain Topogr** 1988 Winter;1(2):73–5
Eigenvectors and eigenfunctions in spatiotemporal EEG analysis. Hjorth B. **Brain Topogr** 1989 Fall-Winter; 2(1–2):57–61
Spatiotemporal analysis of alpha frequency components with the ERD technique. Pfurtscheller G. **Brain Topogr** 1989 Fall-Winter;2(1–2):3–8
The reference problem and mapping of coherence: a simulation study. Rappelsberger P. **Brain Topogr** 1989 Fall-Winter;2(1–2):63–72
Choice of the reference for EEG mapping in the newborn: an initial comparison of common nose reference, average and source derivation. Samson-Dollfus DA, et al. **Brain Topogr** 1989 Fall-Winter;2(1–2):165–9
EEG mapping applications in psychiatric disorders. Williamson PC, et al. **Can J Psychiatry** 1989 Oct; 34(7):680–6 (86 ref.)
Detection of sleep apnea during standard ambulatory cassette EEG recording for seizures: two case reports. McNamara ME. **Clin Electroencephalogr** 1990 Jul;21(3):168–9
A simplified method of somatosensory evoked potential recording from the cerebral cortical surface: technical note. Stone JL, et al. **Clin Electroencephalogr** 1989 Oct; 20(4):212–4
A characterization of a single-trial adaptive filter and its implementation in the frequency domain. Arpaia JP, et al. **Electroencephalogr Clin Neurophysiol** 1989 Oct;73(4):362–8
Lateral coherence of the electrocorticogram: a new measure of brain synchrony. Bullock TH, et al. **Electroencephalogr Clin Neurophysiol** 1989 Dec; 73(6):479–98
Influence of lateralized sensorimotor and neuropsychological activities on electroencephalographic spectral power. De Toffol B, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar;75(3):200–6
Activation of the epileptic focus during intracarotid amobarbital test. Electrocorticographic registration via subdural electrodes. Hufnagel A, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):453–63
Can sharp waves localized at the sphenoidal electrode accurately identify a mesio-temporal epileptogenic focus? Morris HH 3d, et al. **Epilepsia** 1989 Sep–Oct;30(5):532–9
Long-term EEG-video-audio monitoring: detection of partial epileptic seizures and psychogenic episodes by 24-hour EEG record review. Pierelli F, et al. **Epilepsia** 1989 Sep–Oct;30(5):513–23
Subjective and polysomnographic characteristics of patients diagnosed with narcolepsy. Rosenthal LD, et al. **Gen Hosp Psychiatry** 1990 May;12(3):191–7
Real-time filtering for the estimation of steady-state visual evoked brain potentials. Collura TF. **IEEE Trans Biomed Eng** 1990 Jun;37(6):650–2
A method for real-time processing to study recovery functions of evoked potentials. Nakamura M, et al. **IEEE Trans Biomed Eng** 1990 Jul;37(7):738–40
Adaptive smoothing: an improved method for spectral analysis and its application to seizure EEG. Murro AM, et al. **Int J Biomed Comput** 1990 Jul;26(1–2):63–72
The effects of electrode placement upon EEG biofeedback training: the monopolar-bipolar controversy. Fehmi LG, et al. **Int J Psychosom** 1989;36(1–4):23–33
The cerebral function analysing monitor in paediatric medical intensive care: applications and limitations. Tasker RC, et al. **Intensive Care Med** 1990;16(1):60–8
Method for recording short latency evoked potentials using an EKG artifact elimination procedure. Nakamura M, et al. **J Biomed Eng** 1990 Jan;12(1):51–6
Crossed aphasia in a patient with complex partial seizures: evidence from intracarotid amobarbital testing, functional cortical mapping, and neuropsychological assessment. Loring DW, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):340–54
Cortical reorganization in deaf children. Wolff AB, et al. **J Clin Exp Neuropsychol** 1990 Mar;12(2):209–21
Electrocutaneous reflexes and multimodality evoked potentials in multiple sclerosis. Friedli WG, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):391–7
Computerized EEG: applications and interventions. Lundgren JP. **J Neurosci Nurs** 1990 Apr;22(2):108–12
Emotional facial expressions at the onset of temporal lobe seizures: observations on scalp and intracranial EEG recordings. Hiyoshi T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):419–26
Effect on EEG responses of removing ocular artefacts by proportional EOG subtraction. Jervis BW, et al. **Med Biol Eng Comput** 1989 Sep;27(5):484–90
Analysis of the multi-channel epileptiform EEG using the Markov chains formalism. Penczek P, et al. **Methods Inf Med** 1989 Jul;28(3):160–7
Comparison of depth and subdural electrodes in recording temporal lobe seizures [see comments] Sperling MR, et al. **Neurology** 1989 Nov;39(11):1497–504 Comment in: Neurology 1990 Jun;40(6):1009–10.
Combined use of subdural and intracerebral electrodes in preoperative evaluation of epilepsy. van Veelen CW, et al. **Neurosurgery** 1990 Jan;26(1):93–101
Ambulatory cassette EEG in epilepsy evaluation. Drake ME Jr, et al. **Ohio Med** 1989 Oct;85(10):815–7
Ambulatory EEG recordings in children with infrequent seizures. Curless RG, et al. **Pediatr Neurol** 1990 May-Jun; 6(3):184–5
Sequential use of standard and ambulatory EEG in neonatal seizures. Kerr SL, et al. **Pediatr Neurol** 1990 May-Jun; 6(3):159–62
Methods of spatial interpolation applied to EEG mapping. Hinrichs H, et al. **Psychiatry Res** 1989 Sep;29(3):431–2
Brain electrical mapping of cognitive functions for psychiatry: functional micro-states. Lehmann D. **Psychiatry Res** 1989 Sep;29(3):385–6
EEG brain mapping in gerontopsychopharmacology: on protective properties of pyritinol against hypoxic hypoxidosis. Saletu B, et al. **Psychiatry Res** 1989 Sep; 29(3):387–90
EEG scalp electrode projection onto three-dimensional surface rendered images of the brain. Jack CR Jr, et al. **Radiology** 1990 Aug;176(2):413–8
EEG topographic mapping and frequency analysis: techniques and studies in clinical setting. Nuwer MR. **Semin Neurol** 1990 Jun;10(2):166–77 (32 ref.)
Alternative electrode placement in (automatic) sleep scoring

(Fpz–Cz/Pz–Oz versus C4–A1). van Sweden B, et al. **Sleep** 1990 Jun;13(3):279–83

[EEG topography in HIV–positive hemophiliacs] Riedel RR, et al. **EEG EMG** 1989 Dec;20(4):243–7 (Eng. Abstr.) (Ger)

[Transarterial EEG in superselective cerebral angiography] Zeitlhofer J, et al. **EEG EMG** 1990 Mar;21(1):70–2 (Eng. Abstr.) (Ger)

[Ambulatory long–term EEG monitors] John K, et al. **Kinderarztl Prax** 1990 Jun;58(6):281–7 (Eng. Abstr.) (Ger)

[The anticipatory potential (contingent negative variation) as an indicator of neuronal information processing in relation to changes in slow potentials in the EEG] Korunka C, et al. **Z Exp Angew Psychol** 1990;37(1):52–68 (Eng. Abstr.) (Ger)

[A new computerized system for electroencephalography at the Kochi Medical School Hospital: the present status and problems of electroencephalogram data filing systems] Doi T, et al. **Rinsho Byori** 1990 Jun;38(6):651–6 (Eng. Abstr.) (Jpn)

[The clinical application and limitation of electrocardiography] Matsubara K, et al. **Rinsho Byori** 1990 Jun;38(6):619–25 (Eng. Abstr.) (Jpn)

[EEG background activity in patients with dementia of the Alzheimer type—with special reference to analysis by t-statistic significance probability mapping (SPM) in Alzheimer's disease and senile dementia] Miyauchi T, et al. **Seishin Shinkeigaku Zasshi** 1989;91(4):244–59 (Eng. Abstr.) (Jpn)

[Scanning encephaloscopy] Gekhman BI. **Fiziol Zh SSSR** 1989 Sep;75(9):1270–5 (Rus)

[The potentials of spectral–correlative methods for analyzing total brain electrical activity exemplified by a study of the electrosubcorticograms of dogs] Feshchenko VA. **Zh Vyssh Nerv Deiat** 1989 May–Jun;39(3):567–79 (Eng. Abstr.) (Rus)

[A spectral–correlational analysis of the EEG of the neocortex in the rabbit in a state of thirst] Malikova AK, et al. **Zh Vyssh Nerv Deiat** 1990 Jan–Feb;40(1):108–18 (Eng. Abstr.) (Rus)

[A method for mapping the characteristics of the connection of electrical processes in the human and animal cerebral cortex] Monakhov KK, et al. **Zh Vyssh Nerv Deiat** 1989 Nov–Dec;39(6):1173–6 (Rus)

[Computerized EEG and personality] Ramírez Pérez A, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1989 Nov–Dec;17(6):428–34 (Eng. Abstr.) (Spa)

STANDARDS

Efficacy of a 1– to 3–day ambulatory electroencephalogram in recording epileptic seizures. Tuunainen A, et al. **Arch Neurol** 1990 Jul;47(7):799–800

Clinical diagnoses and EEG interpretation. Williams GW, et al. **Cleve Clin J Med** 1990 Jul–Aug;57(5):437–40

Electroencephalographic and evoked potential monitoring in the hyperbaric environment. Litscher G, et al. **J Clin Monit** 1990 Jan;6(1):10–7

[Recommendations of the Deutsche EEG–Gesellschaft for the mapping of EEG parameters (EEG and EP mapping) (published erratum appears in EEG EMG 1989 Dec;20(4):309)] Herrmann WM, et al. **EEG EMG** 1989 Sep; 20(3):125–32 (Ger)

STATISTICS & NUMERICAL DATA

Multivariate statistical methods for EEG analysis. Adams ER. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):101–8 (3 ref.)

Statistical methods for EEG analysis. Byford GH, et al. **Boll Soc Ital Biol Sper** 1988 Dec;64(12 Suppl):73–86 (4 ref.)

Replication of a study of frequency analysis of the resting awake EEG in mild probable Alzheimer's disease. Coben LA, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):148–54

[An analysis of the statistical characteristics of the total brain biopotentials in rats] Kiseleva NV, et al. **Zh Vyssh Nerv Deiat** 1989 Jul–Aug;39(4):783–8 (Rus)

UTILIZATION

An analysis of 300 EEG referrals. Rao K, et al. **Practitioner** 1989 Mar 8;233(1464):320, 322

[The EEG, CAT and alcoholism] Conde López V, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1990 Jan–Feb;18(1):7–25 (54 ref.) (Eng. Abstr.) (Spa)

VETERINARY

Electroencephalographic and histopathologic correlations in eight dogs with intracranial mass lesions. Steiss JE, et al. **Am J Vet Res** 1990 Aug;51(8):1286–91

Electroencephalographic observation on sheep and cattle with experimental cerebrocortical necrosis. Itabisashi T, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):551–8

Electrophysiological and pathological study in a dog with seizure. Uzuka Y, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):1055–8

ELECTROENCEPHALOGRAPHY, ALPHA RHYTHM see **ALPHA RHYTHM**

ELECTROFOCUSING see **ISOELECTRIC FOCUSING**

ELECTROGALVANISM, INTRAORAL

Oral galvanism in Sweden. Molin C. **J Am Dent Assoc** 1990 Aug;121(2):281–4 (49 ref.)

Studies in oral galvanism: mercury and copper levels in urine, blood and saliva in submerged electrically cutting divers. Ortendahl TW, et al. **J Oral Rehabil** 1989 Nov;16(6):559–73 (40 ref.)

Dietary pattern, energy and nutrient intake in patients with oro–facial discomfort complaints. Yontchev E, et al. **J Oral Rehabil** 1989 Jul;16(4):345–51

Patients complaining about amalgam–related symptoms suffer more often from illnesses and chronic craniofacial pain than their controls. Meurman JH, et al. **Scand J Dent Res** 1990 Apr;98(2):167–72

Oral electrochemical action after soft drink rinsing and consumption of sweets. Vassilakos N, et al. **Scand J Dent Res** 1990 Aug;98(4):336–40

[The effect of metal dentures in the oral cavity on the electric conductivity of the saliva] Freidin LI, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):60–1 (Eng. Abstr.) (Rus)

[The proteins of human mixed saliva in galvanism and yeast–induced stomatitis] Freidlin LI, et al. **Stomatologiia (Mosk)** 1989 Nov–Dec;68(6):54–5 (Eng. Abstr.) (Rus)

[Characteristics of the electrical values of metal denture parts in patients wearing plate dentures] Pavlenko VM, et al. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):61–3 (Eng. Abstr.) (Rus)

ELECTROHYDRAULIC SHOCKWAVE LITHOTRIPSY see **LITHOTRIPSY**

ELECTROIMMUNOBLOTTING see **IMMUNOBLOTTING**

ELECTROKYMOGRAPHY

Mechanisms of stress–induced ST elevation and negative T–wave normalization studied by serial cardiokymogram in patients with a previous myocardial infarction. Ogawa T, et al. **Am J Cardiol** 1990 Apr 15;65(15):962–6

ELECTROLYSIS

Steady state electrolysis and isoelectric focusing. Hagedorn R, et al. **Electrophoresis** 1990 Apr;11(4):281–9

[Hygienic evaluation and the effects of toxic factors in the work environment of copper–processing plants] Bobev G, et al. **Probl Khig** 1989;14:108–18 (Eng. Abstr.) (Bul)

[Enzyme deficiencies in leukocytes of workers exposed to mercury vapors. I. Neutrophils] Moszczyński P Jr, et al. **Med Pr** 1989;40(4):213–9 (Eng. Abstr.) (Pol)

[Comparison of the effectiveness of water disinfection by electrolysis and chlorination] Erusalimskaia LF, et al. **Gig Sanit** 1989 Nov;(11):73–5 (Rus)

[Comparative evaluation of various methods of analyzing sodium and potassium hydroxides in the air of galvanic shops] Karelin ON, et al. **Gig Sanit** 1989 Sep;(9):44–5 (Rus)

[A toxicologic hygiene evaluation of electrolytic oxygen obtained from the water in a system with a solid polymeric electrolyte] Bardov VG, et al. **Vrach Delo** 1990 Jan; (1):106–9 (Eng. Abstr.) (Rus)

[The experimental effect of electrolytic oxygen on the structure of the internal organs in animals] Koziarin IP. **Vrach Delo** 1990 May;(5):102–6 (Eng. Abstr.) (Rus)

ELECTROLYTES

see related
FLUID THERAPY
WATER–ELECTROLYTE BALANCE

The efficacy of whole gut irrigation with polyethylene glycol electrolyte solution in elective colorectal surgery for cancer. Sakanoue Y, et al. **Acta Chir Scand** 1990 Jun–Jul; 156(6–7):463–6

International Federation of Clinical Chemistry (IFCC). Scientific Division. Committee on pH, Blood Gases and Electrolytes. Guidelines for transcutaneous PO2 and PCO2 measurement. Winberley PD, et al. **Ann Biol Clin (Paris)** 1990;48(1):39–43

Step change of counterion—a new option in capillary zone electrophoresis. Sudor J, et al. **Electrophoresis** 1989 Nov; 10(11):802–5

Golytely interferes with stool examination for ova and parasites [letter] Burch WC Jr, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):471

Comparison of a new sulfate–free polyethylene glycol electrolyte lavage solution versus a standard solution for colonoscopy cleansing. DiPalma JA, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):285–9

In rural Indonesia social marketing of oral rehydration salts the mothers' perspective. Mantra IB, et al. **Hygie** 1989 Dec; 8(4):26–31

The role of dietary electrolytes in hypertension. Moore TJ. **J Am Coll Nutr** 1989;8 Suppl:68S–80S (111 ref.)

Relative stabilities and transitions of DNA conformations in 1:1 electrolytes: a theoretical study. Soumpasis DM, et al. **J Biomol Struct Dyn** 1987 Feb;4(4):535–52

Monte–Carlo–self consistent field method in the polyelectrolyte theory. Vorontsov–Velyaminov PN, et al. **J Biomol Struct Dyn** 1989 Dec;7(3):739–47

Molecular dynamics simulation as a complement to diffraction in the study of disorder in crystals. Thomas JO, et al. **J Comput Aided Mol Des** 1989 Dec;3(4):311–25

Effect of electrolytes, stirring and surfactants in the coacervation and microencapsulation processes in presence of gelatin. Rozenblat J, et al. **J Microencapsul** 1989 Oct–Dec;6(4):515–26

Role of electrolytes in the etiology of alcohol–induced hypertension. Clark LT. **Magnesium** 1989;8(3–4):124–31 (59 ref.)

Ions and mucoid substances in sensory organs—microanalytical data from insect sensilla. Steinbrecht RA. **Symp Soc Exp Biol** 1989;43:131–8 (30 ref.)

[Study of the immunogenicity of conjugates, obtained by means of chemical interaction of benzidine with synthetic polyelectrolytes] Korosteleva TA, et al. **Eksp Onkol** 1989; 11(5):17–9 (Eng. Abstr.) (Rus)

ADMINISTRATION & DOSAGE

Colonic lavage solution (polyethylene glycol electrolyte lavage solution) as a treatment for chronic constipation: a double–blind, placebo–controlled study. Andorsky RI, et al. **Am J Gastroenterol** 1990 Mar;85(3):261–5

Physiological effects of dehydration and rehydration with water and acidic or neutral carbohydrate electrolyte solutions. Bothorel B, et al. **Eur J Appl Physiol** 1990; 60(3):209–16

Effect of dietary electrolyte balance on performance and blood parameters of growing–finishing swine fed in high ambient temperatures. Haydon KD, et al. **J Anim Sci** 1990 Aug;68(8):2400–6

Polyethylene glycol–electrolyte solution for rectal sunflower seed bezoar. Shah M, et al. **Pediatr Emerg Care** 1990 Jun; 6(2):127–8

[Preparation for colonoscopy using Golytely—a sure method? Comparative histological and clinical study between lavage and saline laxatives] Phillip J, et al. **Med Klin** 1990 Jul 15;85(7):415–20 (Eng. Abstr.) (Ger)

[Use of polyionic solutions in the treatment of acute intestinal infections] Chekalina KI, et al. **Sov Med** 1989;(11):111–4 (Rus)

[Ion–balanced cardioplegic solutions in cardiac surgery] Zorin AB, et al. **Vestn Khir** 1989 Sep;143(9):104–7 (Eng. Abstr.) (Rus)

ANALYSIS

Critical electrolyte concentration of the heterochromatin and euchromatin of Triatoma infestans. Mello ML, et al. **Cytobios** 1989;59(237):87–93

Cationic distribution in vessels, heart, skeletal muscle, and blood of normotensive (NWR) and spontaneously hypertensive rats (SHR). Boeckh–Haebisch EM. **Gegenbaurs Morphol Jahrb** 1989;135(6):855–64

Preliminary study of water and some element contents in boar spermatozoa, before, during and after freezing. Courtens JL, et al. **J Reprod Fertil** 1989 Nov;87(2):613–26

Conformation of surface bound polyelectrolytes: I. Implications for cell electrophoresis. Miklavic SJ, et al. **J Theor Biol** 1989 Mar 7;137(1):71–89

Effect of amiloride on electrolyte concentrations and rubidium uptake in principal and mitochondria–rich cells of frog skin. Dörge A, et al. **Pflugers Arch** 1990 May; 416(3):335–8

[Effects of solute on growth and intracellular salt concentration of Pediococcus halophilus CCRC 12884 isolated from Inyu mash] Tsao LS, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1990 Feb;23(1):89–97 (Eng. Abstr.) (Chi)

[The blood and lymph electrolyte composition in the postresuscitation period] Mamedov IaD, et al. **Patol Fiziol Eksp Ter** 1989 Jul–Aug;(4):34–6 (Eng. Abstr.) (Rus)

[Modern foreign ion–selective analyzers] Liutikov VM. **Voen Med Zh** 1989 Nov;(11):74–6 (Rus)

[The bile immunoglobulins and electrolytes of patients with acute and protracted courses of viral hepatitis] Miroshnichenko VP, et al. **Vrach Delo** 1990 May;(5):113–6 (Eng. Abstr.) (Rus)

BLOOD

Effects of dexamethasone on body fluid and electrolyte composition of rats. Kenyon CJ, et al. **Acta Endocrinol (Copenh)** 1990 May;122(5):599–604

Identification of health damage due to alcohol abuse; importance of alterations in cardiac function and blood chemistries. Morvai V, et al. **Acta Med Hung** 1989; 46(4):263–73

Atrial natriuretic peptide, renin activity, aldosterone, urine volume and electrolytes during a 24–h sleep–wake cycle in man. Leppäluoto J, et al. **Acta Physiol Scand** 1990 May; 139(1):47–53

Effect of intraruminal addition of potassium chloride during food deprivation in goats. Holtenius K. **Acta Vet Scand Suppl** 1989;86:57–9

Effects of normal pregnancy on cellular cation metabolism and peripheral vascular resistance. Sowers JR, et al. **Am J Hypertens** 1990 Jan;3(1):16–22

Dehydration and serum electrolyte changes in South African gold miners with heat disorders. Shearer S. **Am J Ind Med** 1990;17(2):225–39

The fall of the serum anion gap. Winter SD, et al. **Arch Intern Med** 1990 Feb;150(2):311–3

Fast effects of aldosterone on electrolytes in human lymphocytes are mediated by the sodium–proton–exchanger of the cell membrane. Wehling M, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):961–7

Electrolyte concentrations in serum and CSF following subarachnoid haemorrhage. von Holst H, et al. **Br J Neurosurg** 1990;4(2):123–6

Comparative study of sodium, potassium, ionized calcium, urea and creatinine circadian rhythm documented in samples of capillary and venous blood from healthy subjects. Baghdassarian RA, et al. **Chronobiologia** 1990 Jan–Mar;17(1):15–25

Screening trace elements and electrolytes in serum by inductively–coupled plasma emission spectrometry. Melton LA, et al. **Clin Chem** 1990 Feb;36(2):247–50

A routine method for the measurement of the sodium, potassium, magnesium and calcium content of human lymphocytes. Weissberg N, et al. **Clin Chim Acta** 1990 Mar 15;187(3):281–8

Changes in dialysate composition related to new dialysis techniques. Locatelli F, et al. **Contrib Nephrol** 1990; 77:106–14

Electrolyte measurements during inhospital cardiopulmonary resuscitation. Eisenberg IJ. **Crit Care Med** 1990 Jan; 18(1):25–8

Fluid, electrolyte and haematological changes in experimental peste des petits ruminants virus infection in West African dwarf goats. Olaleye OD, et al. **Cytobios** 1989;58(232):39–51

Alterations in electrolyte and trace–element concentrations during simulated extracorporeal blood circulation. Bergmann W, et al. **Free Radic Res Commun** 1989; 7(3–6):355–66

Intra–cellular electrolyte changes and levels of endogenous digoxin–like substance within the plasma in patients with congestive heart failure. Liu ZQ, et al. **Int J Cardiol** 1990 Apr;27(1):47–53

Electrolyte abnormalities associated with diarrhea in rhesus monkeys: 100 cases (1986–1987). George JW, et al. **J Am Vet Med Assoc** 1990 May 15;196(10):1654–8

Cardiovascular manifestations of aluminium phosphide intoxication. Singh RB, et al. **J Assoc Physicians India** 1989 Sep;37(9):590–2

Bedside analysis of arterial blood gases and electrolytes during and after cardiac surgery. Strickland RA, et al. **J Clin Anesth** 1989;1(4):248–52

Biochemical, endocrine, and mineral effects of indapamide in black women. Prisant LM, et al. **J Clin Pharmacol** 1990 Feb;30(2):121–6 (45 ref.)

Effects of single doses of a 20 mg frusemide/2.5 mg amiloride combination, 20 mg frusemide and placebo on plasma and urine electrolytes in healthy men. Warrington SJ, et al. **J Int Med Res** 1990;18 Suppl 2:3B–9B

The effect of air abrasive polishing on blood pH and electrolyte concentrations in healthy mongrel dogs. Snyder JA, et al. **J Periodontol** 1990 Feb;61(2):81–6

The relationship between magnesium, calcium, sodium, potassium and blood pressure in South African adult males. Touyz RM, et al. **Magnesium** 1989;8(3–4):145–53

Effects of steroids and cyclosporin A on compensatory renal growth and plasma electrolytes in rats. Kinson GA. **Pharmacol Res** 1990 Jul–Aug;22(4):455–62

Calculation of single–ion activities in solutions simulating blood plasma. Covington AK, et al. **Scand J Clin Lab Invest** 1989 Nov;49(7):667–75

Effect of injury and total parenteral nutrition on water and electrolytes of RBC, serum, muscle and liver tissue. Liaw KY, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar; 88(3):253–7

Plasma electrolyte changes after ingestion of bile extract of the grass carp (Ctenopharyngodon idellus) in rats. Chen CF, et al. **Toxicol Lett** 1990 Feb;50(2–3):221–8

[The effect of polyclorinated biphenyls in chickens: the effect of short–term administration of high doses of Delor 103 on the levels of thyroxine, triiodothyronine, sodium, potassium and calcium in the blood] Piskač A, et al. **Vet Med (Praha)** 1990 Apr;35(4):237–46 (Eng. Abstr.) **(Cze)**

[Electrolyte disorders in cadaveric kidney donors before explantation and the functional development of the transplant in the early postoperative period] Teplan V, et al. **Anaesthesiol Reanim** 1990;15(2):107–15 (Eng. Abstr.) **(Ger)**

[Mineral metabolism during the therapy of tall stature] Kauf E, et al. **Padiatr Grenzgeb** 1990;29(2):179–83 **(Ger)**

[Electrolyte disorders, EEG changes and epileptic seizures in alcohol withdrawal delirium] Schmickaly R, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Dec; 41(12):722–9 (Eng. Abstr.) **(Ger)**

[Action of trichlormethiazide and amiloride on cellular Na+, K+ and Mg+ concentrations] Kisters K, et al. **Schweiz Med Wochenschr** 1989 Dec 16;119(50):1837–9 (Eng. Abstr.) **(Ger)**

[Comparative studies of general anesthesia of sheep with ketamine and etomidate] Mouallem H. **Pol Arch Weter** 1988;28(1–2):113–27 (Eng. Abstr.) **(Pol)**

[Plasma and erythrocyte electrolytes in endogenous depression —neurophysiologic implications] Rybakowski J, et al. **Psychiatr Pol** 1989 Jul–Aug;23(4):265–70 (Eng. Abstr.) **(Pol)**

[The electrolyte balance of the blood in dogs exposed to multiple +Gz overloads] Vartbaronov RA, et al. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):43–6 (Eng. Abstr.) **(Rus)**

[Contents of bioelements in blood of newborn infants with a history of chronic intrauterine hypoxia] Deshchekina MF, et al. **Pediatriia** 1989;(10):19–24 (Eng. Abstr.) **(Rus)**

[Electrolytes in toxemic fetuses] Julio–Barrios E, et al. **Bol Med Hosp Infant Mex** 1989 Oct;46(10):667–71 (Eng. Abstr.) **(Spa)**

CEREBROSPINAL FLUID

Lactate–induced electrolyte changes in the cerebrospinal fluid of rabbits. George DT, et al. **Biol Psychiatry** 1990 Jan 1;27(1):104–8

DIAGNOSTIC USE

A low–sodium solution for gastrointestinal lavage. Fordtran JS, et al. **Gastroenterology** 1990 Jan;98(1):11–6

METABOLISM

Disturbance of fluid and electrolyte transport in cystic fibrosis epithelia. Bijman J. **Acta Paediatr Scand Suppl** 1989; 363:10–3 (23 ref.)

Dynamic evaluation of renal medullary electrolytes from measurement of tissue electrical admittance. Sadowski J. **Acta Physiol Pol** 1989 May–Jun;40(3):329–37

Mechanisms subserving brain water–electrolyte homeostasis. Szczepańska–Sadowska E. **Acta Physiol Pol** 1989 May–Jun; 40(3):301–18 (47 ref.)

Villus and crypt electrolyte and fluid transport during intestinal secretion. Sjöqvist A, et al. **Acta Physiol Scand** 1990 May;139(1):203–10

Electrolyte and water absorption in the hind gut of herbivores. Argenzio RA, et al. **Acta Vet Scand Suppl** 1989; 86:159–67 (30 ref.)

Differential effects of corticosteroids on active electrolyte transport in the mammalian distal colon. Binder HJ, et al. **Acta Vet Scand Suppl** 1989;86:174–80

Regulation of electrolyte transport in frog colon. Krattenmacher R, et al. **Acta Vet Scand Suppl** 1989; 86:168–73

A symposium: Hormone–electrolyte interactions in congestive heart failure. Atlanta, Georgia. Proceedings. **Am J Cardiol** 1990 Mar 6;65(10):1E–52E

Reversal of insulin inhibition of gastric secretion by intravenous injection of potassium. Hirschowitz BI, et al. **Am J Dig Dis** 1966 Mar;11(3):217–30

Renal medullary electrolyte and urea gradient in chickens and turkeys. Skadhauge E, et al. **Am J Physiol** 1967 Jun; 212(6):1313–8

Acid–base–electrolyte balance responses to catecholamine antagonists in Ambystoma tigrinum. Stiffler DF, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1363–70

Meal–stimulated absorption of water and electrolytes in canine jejunum. Yeo CJ, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G402–9

Ion permeability and pump regulation. Lorentzon P, et al. **Ann N Y Acad Sci** 1989;574:134–44

Intracellular pH and electrolyte metabolism in chronic stable hypercapnia. Tushan FS, et al. **Arch Intern Med** 1970 Jun; 125(6):967–74

Epithelial electrolyte transport: interrelationships between H+, HCO3– and Cl–. Case RM, et al. **Biochem Soc Trans** 1989 Oct;17(5):803–5

Electrolyte concentrations in control and cystic fibrosis submandibular saliva. Davies H, et al. **Biochem Soc Trans** 1990 Jun;18(3):447–8

Paradoxical effects of essential fatty acid supplementation on lipid profiles and sweat electrolytes in cystic fibrosis. Dodge JA, et al. **Br J Nutr** 1990 Mar;63(2):259–71

Metabolism of body water and electrolytes after surgery for ulcerative colitis: conventional ileostomy versus J pouch. Christie PM, et al. **Br J Surg** 1990 Feb;77(2):149–51

Effects of insulin on kidney function and sodium excretion in healthy subjects. Skøtt P, et al. **Diabetologia** 1989 Sep; 32(9):694–9

Dependence on exercise intensity of changes in electrolyte secretion from the skin sampled by a simple method. Tanaka H, et al. **Eur J Appl Physiol** 1990;60(6):407–11

Growth factor and electrolyte concentration in human breast cyst fluid. Hamed H, et al. **Eur J Cancer** 1990 Apr; 26(4):479–80

Cystic fibrosis: a disease in electrolyte transport. Quinton PM. **FASEB J** 1990 Jul;4(10):2709–17 (49 ref.)

Cellular basis for defective electrolyte transport in inflamed human colon. Sandle GI, et al. **Gastroenterology** 1990 Jul; 99(1):97–105

Effect of available surface water on levels of antidiuretic hormone (lysine vasopressin) and water and electrolyte metabolism of the Rottnest Island quokka (Setonix brachyurus). Jones ME, et al. **Gen Comp Endocrinol** 1990 Jan;77(1):75–87

Changes in leaching properties of chick skeletal muscles on denervation. Malhotra RK, et al. **Indian J Exp Biol** 1989 Apr;27(4):381–2

Evaluation of the losses of water and minerals: description of the method with the example of a 10,000 m race. Wenk C, et al. **Int J Vitam Nutr Res** 1989;59(4):425

Furosemide and cerebrospinal fluid ions during acute respiratory acidosis. Javaheri S, et al. **J Appl Physiol** 1989 Aug;67(2):563–9

Pathogenesis of Shigella diarrhea. XVI. Selective targetting of Shiga toxin to villus cells of rabbit jejunum explains the effect of the toxin on intestinal electrolyte transport. Kandel G, et al. **J Clin Invest** 1989 Nov;84(5):1509–17

Hydrogen peroxide stimulates rat colonic prostaglandin production and alters electrolyte transport. Karayalcin SS, et al. **J Clin Invest** 1990 Jul;86(1):60–8

Water and electrolyte transport by the avian ceca. Thomas DH, et al. **J Exp Zool Suppl** 1989;3:95–102

Protein intake and cation transport in the loop of Henle. Seney FD Jr, et al. **J Lab Clin Med** 1989 Nov;114(5):587–94

Fluid and ion redistribution in skeletal muscle in an animal sepsis model. Hannon RJ, et al. **J Pediatr Surg** 1990 Jun; 25(6):599–603

Neurohormonal regulation of ion transport in the porcine distal jejunum. Actions of somatostatin–14 and its natural and synthetic homologs. Brown DR, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):126–34

SK&F 104353: selective antagonism of peptidoleukotrine–induced changes in electrolyte transport by rat ileal mucosa in vitro. Elton E, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):484–9

Opioid regulation of mucosal ion transport in the mouse isolated jejunum. Sheldon RJ, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):144–51

Effects of nerve stimulation on ion transport in mouse jejunum: responses to Veratrum alkaloids. Sheldon RJ, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):636–42

Effects of ischemia on cholinergic neurotransmission and electrolyte content in newborn pig lumbar spinal cord. Tekulics P, et al. **Life Sci** 1990;46(11):811–7

Effects of osmolality on water, electrolytes and VFAs absorption from the isolated ruminoreticulum in the cow. Tabaru H, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):91–6

Actions of neuropeptide Y on basal, cyclic AMP–induced and neurally evoked ion transport in porcine distal jejunum. Brown DR, et al. **Regul Pept** 1990 Jun;29(1):31–47

Absorption of water and solute from glucose–electrolyte solutions in the human jejunum: effect of citrate or betaine. Leiper JB, et al. **Scand J Gastroenterol** 1989 Nov; 24(9):1089–94

Gamma–interferon–mediated down–regulation of electrolyte secretion by intestinal epithelial cells: a local immune mechanism? Holmgren J, et al. **Scand J Immunol** 1989 Oct; 30(4):499–503

Studies of epithelial electrolyte transport by marker ions. Dörge A, et al. **Scanning Microsc** 1990 Jun;4(2):449–53; discussion 453–5

Electrolytes: clinical applications. Rose RJ. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):281–94 (39 ref.)

[Electrolyte disorders in brain dead organ donors and early functional development of the transplanted kidney] Teplan V, et al. **Cas Lek Cesk** 1989 Jul 28;128(31):970–3 (Eng. Abstr.) **(Cze)**

[Carbonic anhydrase and its function in ion transport in cultivated pigmented ciliary body epithelial cells] Helbig H, et al. **Fortschr Ophthalmol** 1989;86(5):474–7 (Eng. Abstr.) **(Ger)**

[Sialochemical studies in Sjögren disease] Menstell S, et al. **Laryngorhinootologie** 1990 Jun;69(6):320–1 (Eng. Abstr.) **(Ger)**

[The protective effect of diltiazem, a calcium channel blocker on myocardial ischemia during open heart surgery—an analysis of electrolyte changes in myocardial cells] Koike R. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):358–69 (Eng. Abstr.) **(Jpn)**

[Clinical assessment of electrolyte metabolism and the renin–aldosterone system in patients with liver cirrhosis and ascites] Mansurov KhKh, et al. **Ter Arkh** 1989; 61(11):54–7 **(Rus)**

[The types of mucus and electrolyte secretion in chronic gastritis and peptic ulcer] Skliarov EIa, et al. **Vrach Delo** 1990 Jun;(6):55–7 **(Rus)**

[The patterns and factors shaping the ionic composition of the muscles in animal evolution] Nesterov VP. **Zh Evol Biokhim Fiziol** 1990 Mar–Apr;26(2):259–67 **(Rus)**

PHARMACOKINETICS

Comparison of the function of the tight junctions of endothelial cells and epithelial cells in regulating the movement of electrolytes and macromolecules across the cell monolayer. Milton SG, et al. **J Cell Physiol** 1990 Sep; 144(3):498–504

PHARMACOLOGY

Interaction of diuretics and electrolytes in congestive heart failure. Nicholls MG. **Am J Cardiol** 1990 Mar 6; 65(10):17E–21E; discussion 22E–23E

Effect of antimicrobial solution lavage on the palmar digital tendon sheath in horses. Baird AN, et al. **Am J Vet Res** 1990 Sep;51(9):1488–94

Evaluation of rapid colon preparation with Golytely. Chen CF, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Jul;44(1):45–56

Effect of polyelectrolytes on serine proteinase secretion by Bacillus subtilis. Artemov AV, et al. **FEBS Lett** 1990 Mar 12;262(1):33–5

Effect of glucose electrolyte ingestion on physiological

changes due to severe heat stress. Bandopadhyay P, et al. **Indian J Physiol Pharmacol** 1989 Jul-Sep;33(3):163-7

Influence of dietary electrolytes on lysine and arginine absorption in chick intestine. Riley WW Jr, et al. **Poult Sci** 1989 Sep;68(9):1255-62

THERAPEUTIC USE

A randomized prospective trial comparing oral sodium phosphate with standard polyethylene glycol-based lavage solution (Golytely) in the preparation of patients for colonoscopy. Vanner SJ, et al. **Am J Gastroenterol** 1990 Apr;85(4):422-7

The effects of feeding milk to diarrheic calves supplemented with oral electrolytes. Heath SE, et al. **Can J Vet Res** 1989 Oct;53(4):477-85

Pediatric bowel evacuation with a polyethylene glycol and iso-osmolar electrolyte solution. Goodale EP, et al. **DICP** 1989 Dec;23(12):1008-9

Acute diarrhoea in expatriates in Bangladesh [letter; comment] Ramage JK, et al. **Gut** 1990 Jan;31(1):123 Comment on: Gut 1989 Apr;30(4):492-5.

A double-blind comparative study of glucolyte-2 with conventional infusion in postoperative surgical and trauma patients. Chuntrasakul C, et al. **J Med Assoc Thai** 1990 Feb;73(2):68-80

Therapeutic effects of electrolyte solution with oil emulsion on serious diarrhea in Holstein calves. Koiwa M, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):639-41

Parenteral nutrition, and fluid and electrolyte therapy. Arnold WC. **Pediatr Clin North Am** 1990 Apr;37(2):449-61 (47 ref.)

URINE

Urine electrolytes and osmolality: when and how to use them. Kamel KS, et al. **Am J Nephrol** 1990;10(2):89-102 (59 ref.)

Urine electrolytes in the assessment of extracellular fluid volume contraction. Kamel KS, et al. **Am J Nephrol** 1989; 9(4):344-7

Renal excretion of creatinine, electrolytes, protein, and enzymes in healthy sheep. Garry F, et al. **Am J Vet Res** 1990 Mar;51(3):414-9

Kappa-opioid-receptor agonists modulate the renal excretion of water and electrolytes in anaesthetized rats. Ashton N, et al. **Br J Pharmacol** 1990 Jan;99(1):181-5

The influence of renal nerves on electrolyte excretion in conscious and anesthetized rats fed or fasted overnight. Mercer PF, et al. **Can J Physiol Pharmacol** 1990 Apr; 68(4):524-30

Biological monitoring screening of patients provided antineoplastic drugs including adriamycin, cyclophosphamide, 5-fluorouracil, methotrexate, and vincristine. Newman MA, et al. **Cancer Res** 1990 Jun 1; 50(11):3351-66

Circadian rhythms in urinary trace element and electrolyte excretion in children with and without endemic goiter. Nicolau GY, et al. **Endocrinologie** 1989 Oct-Dec; 27(4):241-59

Effect of chronic oral furosemide administration on the 24-hour cycle of lithium clearance and electrolyte excretion in humans. Shalmi M, et al. **Eur J Clin Pharmacol** 1990;38(3):275-80

Influence of seasonal biorhythms on urinary excretion of enzymes and other parameters. Grötsch H, et al. **J Clin Chem Clin Biochem** 1990 May;28(5):285-6

The INTERSALT Co-operative Research Group. Appendix tables. Centre-specific results by age and sex. **J Hum Hypertens** 1989 Oct;3(5):331-407

Nephrolithiasis and urine ion changes in ulcerative colitis patients undergoing colectomy and endorectal ileal pullthrough. Stelzner M, et al. **J Surg Res** 1990 Jun; 48(6):552-6

Renal tubular function in protein energy malnutrition [letter] Rao A, et al. **J Trop Pediatr** 1989 Aug;35(4):203-4

Various urinary properties in bladder tumor patients. Okamura T, et al. **Jpn J Clin Oncol** 1990 Jun;20(2):154-8

[Blood pressure and relative body weight, alcohol consumption and electrolyte excretion in the FRG and the GDR: the Intersalt Study. The Intersalt Study Group form the FRG and the GDR] **Klin Wochenschr** 1990 Jul 5; 68(13):655-63 (Eng. Abstr.) **(Ger)**

[Rhythms of electrolyte excretion in healthy people] Aslanian NL, et al. **Lab Delo** 1989;(9):21-3 (Eng. Abstr.) **(Rus)**

[Changes in the parameters of the rhythms of the electrolyte-excreting function of the kidneys in women in relation to the seasons of the year] Aslanian NL, et al. **Lab Delo** 1989;(12):64-7 (Eng. Abstr.) **(Rus)**

ELECTROLYTIC DEPILATION see **HAIR REMOVAL**

ELECTROMAGNETIC ENERGY see **RADIATION**

ELECTROMAGNETIC FIELDS see under **ELECTROMAGNETICS**

ELECTROMAGNETIC RADIATION see **RADIATION**

ELECTROMAGNETIC RADIATION, IONIZING see **RADIATION, IONIZING**

ELECTROMAGNETIC RADIATION, NON-IONIZING see **RADIATION, NON-IONIZING**

ELECTROMAGNETIC WAVES see **RADIATION**

ELECTROMAGNETICS

Re: The authors reply to "Re: 'Acute nonlymphocytic leukemia and residential exposure to power-frequency magnetic fields'" [letter] Archer VE. **Am J Epidemiol** 1990 Sep;132(3):584-5

Neuroblastoma and parental occupation. Bunin GR, et al. **Am J Epidemiol** 1990 May;131(5):776-80

Incidence of leukemia in occupations with potential electromagnetic field exposure in United States Navy personnel. Garland FC, et al. **Am J Epidemiol** 1990 Aug; 132(2):293-303

Epidemiology and exposure to electromagnetic fields [comment] Monson RR. **Am J Epidemiol** 1990 May; 131(5):774-5 Comment on: Am J Epidemiol 1990 May;131(5):759-62. Comment on: Am J Epidemiol 1990 May;131(5):763-73.

Magnetic field exposure from electric appliances and childhood cancer [see comments] Savitz DA, et al. **Am J Epidemiol** 1990 May;131(5):763-73 Comment in: Am J Epidemiol 1990 May;131(5):774-5.

Use of electric blankets and risk of testicular cancer [see comments] Verreault R, et al. **Am J Epidemiol** 1990 May; 131(5):759-62 Comment in: Am J Epidemiol 1990 May;131(5):774-5.

Paternal occupational exposure to electromagnetic fields and neuroblastoma in offspring. Wilkins JR 3d, et al. **Am J Epidemiol** 1990 Jun;131(6):995-1008

Phase synchronization of an ion ensemble by frequency sweep excitation in Fourier transform ion cyclotron resonance. Hanson CD, et al. **Anal Chem** 1989 Oct 1; 61(19):2130-6

Localization of epileptic foci using a large-area magnetometer and functional brain anatomy. Tiihonen J, et al. **Ann Neurol** 1990 Mar;27(3):283-90

Effect of external pulsing electromagnetic fields on the healing of soft tissue. Glassman LS, et al. **Ann Plast Surg** 1986 Apr;16(4):287-95

A magnetic measurement device for the kinematic analysis of unrestrained human hand movements. Isenberg C, et al. **Behav Brain Res** 1990 Mar 5;37(2):101-8

Marked rapid alterations in nocturnal pineal serotonin metabolism in mice and rats exposed to weak intermittent magnetic fields. Lerchl A, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):102-8

Effect of electromagnetic induction on impulse conduction in the frog nerve-muscle preparation. Wali FA, et al. **Biochem Soc Trans** 1989 Dec;17(6):1088-9

Exposure of human cells to low-frequency electromagnetic fields results in quantitative changes in transcripts. Goodman R, et al. **Biochim Biophys Acta** 1989 Dec 22; 1009(3):216-20

Extremely low-frequency electric and magnetic fields and risk of human cancer. Ad Hoc Working Group. **Bioelectromagnetics** 1990;11(1):91-9 (17 ref.)

In vitro lymphocyte proliferation induced by radio-frequency electromagnetic radiation under isothermal conditions. Cleary SF, et al. **Bioelectromagnetics** 1990;11(1):47-56

New experimental technique for detecting the effect of low-frequency electric fields on enzyme structure. Greco G Jr, et al. **Bioelectromagnetics** 1990;11(1):57-70

Combined DC and ELF magnetic fields can alter cell proliferation. Ross SM. **Bioelectromagnetics** 1990; 11(1):27-36

Sensitive model with which to detect athermal effects of non-ionizing electromagnetic radiation. Saffer JD, et al. **Bioelectromagnetics** 1989;10(4):347-54

A three-dimensional method for calculating currents induced in bodies by extremely low-frequency electric fields. Takuma T, et al. **Bioelectromagnetics** 1990;11(1):71-89

Influence of 60-Hz magnetic fields on sea urchin development. Zimmerman S, et al. **Bioelectromagnetics** 1990;11(1):37-45

Effect of electric field on erythrocyte sedimentation rate. I. Enhancement in saline solution. Long M, et al. **Biorheology** 1990;27(2):241-6

Housing and health: Electromagnetic radiation in homes [see comments] Lowry S. **BMJ** 1989 Dec 16;299(6714):1517-8 Comment in: BMJ 1990 Feb 17;300(6722):466-7.

Extremely low frequency (ELF) electromagnetic fields and leukaemia in children [letter] Bell J, et al. **Br J Cancer** 1990 Aug;62(2):331-2

Clinical evaluation of magnetic stimulation in cervical spondylosis. Jaskolski DJ, et al. **Br J Neurosurg** 1989; 3(5):541-8

Day-night rhythms in the inhibitory effects of 60 Hz magnetic fields on opiate-mediated 'analgesic' behaviors of the land snail, Cepaea nemoralis. Kavaliers M, et al. **Brain Res** 1990 May 28;517(1-2):276-82

Magnetic resonance imaging (MRI) effects on rat pineal neuroendocrine function. LaPorte R, et al. **Brain Res** 1990 Jan 8;506(2):294-6

Focal magnetic coil stimulation reveals motor cortical system reorganized in humans after traumatic quadriplegia. Levy WJ Jr, et al. **Brain Res** 1990 Feb 26;510(1):130-4

Comparative studies on the retinal dopamine response to altered magnetic fields in rodents. Olcese J, et al. **Brain Res** 1989 Sep 25;498(1):145-8

The conservative treatment of osteonecrosis of the femoral head. A comparison of core decompression and pulsing electromagnetic fields. Aaron RK, et al. **Clin Orthop** 1989 Dec;(249):209-18

Fundamental and practical aspects of therapeutic uses of pulsed electromagnetic fields (PEMFs). Bassett CA. **Crit Rev Biomed Eng** 1989;17(5):451-529 (330 ref.)

Locating accuracy of a current source of neuromagnetic responses: simulation study for a single current dipole in a spherical conductor. Kuriki S, et al. **Electroencephalogr Clin Neurophysiol** 1989 Dec; 73(6):499-506

Spatial distribution of the electric field induced in volume by round and figure '8' magnetic coils: relevance to activation of sensory nerve fibers. Maccabee PJ, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):131-41

Identification of sources of brain neuronal activity with high spatiotemporal resolution through combination of neuromagnetic source localization (NMSL) and magnetic resonance imaging (MRI). Pantev C, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):173-84

Neuromagnetic fields accompanying unilateral finger movements: pre-movement and movement-evoked fields. Cheyne D, et al. **Exp Brain Res** 1989;78(3):604-12

Neuromagnetic study of the auditory responses in right and left hemispheres of the human brain evoked by pure tones and speech sounds. Kuriki S, et al. **Exp Brain Res** 1989; 77(1):127-34

Source localization of two evoked magnetic field components using two alternative procedures. Papanicolaou AC, et al. **Exp Brain Res** 1990;80(1):44-8

Hazards of electromagnetic fields to human reproduction [letter] Tompkins P. **Fertil Steril** 1990 Jan;53(1):185

Experimental study of the morphology of the organs of the immune system. Alexandrova LI, et al. **Folia Morphol (Praha)** 1989;37(4):341-2

Neuromagnetism: a new approach for localizing brain function. Tepley N. **Funct Neurol** 1989 Oct-Dec;4(4):321-5 (19 ref.)

Reproduction, growth, and development of rats during chronic exposure to multiple field strengths of 60-Hz electric fields. Rommereim DN, et al. **Fundam Appl Toxicol** 1990 Apr;14(3):608-21

Interim guidelines on limits of exposure to 50/60 Hz electric and magnetic fields. International Non-ionizing Radiation Committee of the International Radiation Protection Association. **Health Phys** 1990 Jan;58(1):113-22

Fast in vitro movement of outer hair cells in an external electric field: effect of digitonin, a membrane permeabilizing agent. Iwasa KH, et al. **Hear Res** 1989 Jul; 40(3):247-54

Reactions of human auditory cortex to a change in tone duration. Kaukoranta E, et al. **Hear Res** 1989 Aug; 41(1):15-21

Tinnitus remission objectified by neuromagnetic measurements. Pantev C, et al. **Hear Res** 1989 Jul; 40(3):261-4

Three-dimensional electromagnetic power deposition in tumors using interstitial antenna arrays. Furse CM, et al. **IEEE Trans Biomed Eng** 1989 Oct;36(10):977-86

A model of the stimulation of a nerve fiber by electromagnetic induction. Roth BJ, et al. **IEEE Trans Biomed Eng** 1990 Jun;37(6):588-97

A quasi-static model for the ring capacitor applicator. Sowiński MJ, et al. **IEEE Trans Biomed Eng** 1989 Oct; 36(10):995-1003

New tetrapolar circuit method using magnetic field for measurement of local impedance change in biological substances. Takemae T, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):53-9

Effects of atmospheric and extra-terrestrial electromagnetic and corpuscular radiations on living organisms. Reiter R. **Int J Biometeorol** 1972;16 Suppl:217-27 (42 ref.)

Comments on "Acoustic Transfer Characteristics in Human Middle Ears Studied by a SQUID Magnetometer Method" [J. Acoust. Soc. Am. 82, 1646-1654 (1987)] [comment] Goode RL, et al. **J Acoust Soc Am** 1989 Dec;86(6):2446-9 Comment on: J Acoust Soc Am 1987 Nov;82(5):1646-54.

Neuromagnetic steady-state responses to auditory stimuli. Hari R, et al. **J Acoust Soc Am** 1989 Sep;86(3):1033-9

Electromagnetic therapy [letter; comment] Barker AT. **J Biomed Eng** 1990 Jan;12(1):85-6 Comment on: J Biomed Eng 1989 Jul;11(4):352.

The remedial electromagnetic field. Lightwood R. **J Biomed Eng** 1989 Sep;11(5):429-36 (14 ref.)

Electromagnetic phenomena in bone [letter] Yadav S, et al. **J Biomed Eng** 1989 Nov;11(6):525-6

A double-blind trial of pulsed electromagnetic fields for delayed union of tibial fractures. Sharrard WJ. **J Bone Joint Surg [Br]** 1990 May;72(3):347-55

Bone density changes in osteoporosis-prone women exposed to pulsed electromagnetic fields (PEMFs). Tabrah F, et al. **J Bone Miner Res** 1990 May;5(5):437-42

On high-resolution transmission electron microscopy in an unstable magnetic environment. Luzzi DE. **J Electron Microsc Tech** 1990 Aug;15(4):406-13

Influence of applied electrical fields on yeast and hyphal growth of Candida albicans. Crombie T, et al. **J Gen Microbiol** 1990 Feb;136 (Pt 2):311-7

Interexaminer reliability of the electromagnetic radiation receiver for determining lumbar spinal joint dysfunction

in subjects with low back pain. Gemmell HA, et al. **J Manipulative Physiol Ther** 1990 Mar-Apr;13(3):134-7

In vivo characterization of indomethacin magnetic polymethyl methacrylate nanoparticles. Vyas SP, et al. **J Microencapsul** 1989 Oct-Dec;6(4):493-9

The search for the missing link—electromagnetic fields and cancer [news] Newman ME. **J Natl Cancer Inst** 1989 Nov 15;81(22):1686-9

Acute effects of electromagnetic stimulation of the brain on cortical activity, cortical blood flow, blood pressure and heart rate in the cat: an evaluation of safety. Eyre JA, et al. **J Neurol Neurosurg Psychiatry** 1990 Jun;53(6):507-13

Magnetic stimulation over the spinal enlargements. Ugawa Y, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep; 52(9):1025-32

Computer-aided analysis of polarized neurite growth. Effects of applied electrical fields on neuronal development. Cork RJ, et al. **J Neurosci Methods** 1990 Apr;32(1):45-54

Quantitative evaluation of hemiparesis with corticomyographic motor evoked potential recorded by transcranial magnetic stimulation. Xing J, et al. **J Neurotrauma** 1990 Summer;7(2):57-64

Occupational electromagnetic field exposure, solvent exposure, and leukemia [letter] Gallagher RP, et al. **J Occup Med** 1990 Jan;32(1):64-5

Effect of low frequency pulsing electromagnetic fields on skin ulcers of venous origin in humans: a double-blind study. Ieran M, et al. **J Orthop Res** 1990 Mar;8(2):276-82

Electromagnetic effects on bone formation at implants in the medullary canal in rabbits. Spadaro JA, et al. **J Orthop Res** 1990 Sep;8(5):685-93

Role of pulsed electromagnetic fields in recalcitrant non-unions. Delima DF, et al. **J Postgrad Med** 1989 Jan; 35(1):43-8

Enhanced polymerization of polar macromolecules by an applied electric field with application to mitosis. Meggs WJ. **J Theor Biol** 1990 Jul 24;145(2):245-55

Bioelectrorheological model of the cell. 1. Analysis of stresses and deformations. Pawlowski P, et al. **J Theor Biol** 1989 Apr 6;137(3):321-37

Electromagnetic stimulation blocks isometric twitch contraction in the frog sciatic nerve-gastrocnemius muscle preparation. Wali FA. **Life Sci** 1990;46(24):1747-53

Neuroendocrine mediated effects of electromagnetic-field exposure: possible role of the pineal gland. Wilson BW, et al. **Life Sci** 1989;45(15):1319-32 (142 ref.)

MRI gradient fields increase brain mannitol space. Garber HJ, et al. **Magn Reson Imaging** 1989 Nov-Dec;7(6):605-10

Synthesis of magnetic gradients for NMR tomography. Mustarelli P, et al. **Magn Reson Imaging** 1990;8(2):101-5

Slotted resonator: principles and applications for high-frequency imaging and spectroscopy on electrically conducting samples. Nijhof EJ. **Magn Reson Imaging** 1990; 8(3):345-9

Biological effects and safety aspects of magnetic resonance imaging. Shellock FG. **Magn Reson Q** 1989 Oct;5(4):243-61 (125 ref.)

An electromagnetic theory of life. Bulkley DH. **Med Hypotheses** 1989 Dec;30(4):281-5

Magnetic field of atrial depolarization. Takeuchi A, et al. **Med Prog Technol** 1988-89;14(2):73-80

Clinical use of the magnetic stimulator in the investigation of peripheral conduction time. Britton TC, et al. **Muscle Nerve** 1990 May;13(5):396-406

Cancer risks seen in electro-magnetic fields [news] Shulman S. **Nature** 1990 Jun 7;345(6275):463

Electromagnetic risk. All aboard the bandwagon [news] Shulman S. **Nature** 1990 Aug 16;346(6285):597

Effect of pulsed electromagnetic fields on calcium tissue changes in focal ischaemia. Rappaport ZH, et al. **Neurol Res** 1990 Jun;12(2):95-8

Descending volley after electrical and magnetic transcranial stimulation in man. Berardelli A, et al. **Neurosci Lett** 1990 Apr 20;112(1):54-8

Increased mortality in land snails (Cepaea nemoralis) exposed to powerline (60-Hz) magnetic fields and effects of the light-dark cycle. Ossenkopp KP, et al. **Neurosci Lett** 1990 Jun 22;114(1):89-94

Magnetic mu rhythm in man. Tiihonen J, et al. **Neuroscience** 1989;32(3):793-800

Transcranial magnetic stimulation of the facial nerve: recording technique and estimation of the stimulated site. Seki Y, et al. **Neurosurgery** 1990 Feb;26(2):286-90

A brief review of magnetic fields from the human visual system. Armstrong RA, et al. **Ophthalmic Physiol Opt** 1989 Jul;9(3):299-301 (10 ref.)

Pulsed high frequency (27MHz) electromagnetic therapy for persistent neck pain. A double blind, placebo-controlled study of 20 patients. Foley-Nolan D, et al. **Orthopedics** 1990 Apr;13(4):445-51

On the electro-magnetic nature of life. Jacobson JI. **Panminerva Med** 1989 Oct-Dec;31(4):151-65

Interruption of motor programmes by electrical or magnetic brain stimulation in man. Rothwell JC, et al. **Prog Brain Res** 1989;80:467-72; discussion 465-6

Enhanced development of striated myofibrils in Xenopus myoblasts cultured in an applied electric field. Dover PJ, et al. **Q J Exp Physiol** 1989 Jul;74(4):545-8

60-Hz electric field exposure inhibits net apparent H(+)-ion excretion from excised roots of Zea mays L. Brayman AA, et al. **Radiat Res** 1990 Jul;123(1):22-31

Use of calcium channel antagonists as magnetoprotective agents. Papatheofanis FJ. **Radiat Res** 1990 Apr;122(1):24-8

Multichannel biomagnetic system for study of electrical activity in the brain and heart. Schneider S, et al. **Radiology** 1990 Sep;176(3):825-30

Neuromagnetic localization of neuronal activity in visual and extravisual cortex. Kaufman L, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990;67:271-87 (40 ref.)

Physiological and psychological effects of exposure to extremely low-frequency electric and magnetic fields on humans. Gamberale F. **Scand J Work Environ Health** 1990; 16 Suppl 1:51-4 (41 ref.)

Electromagnetic fields: the biological evidence [news] Pool R. **Science** 1990 Sep 21;249(4975):1378-81

Is there an EMF-cancer connection? [news] Pool R. **Science** 1990 Sep 7;249(4973):1096-8 (1 ref.)

The influence of electromagnetic interference and ionizing radiation on cardiac pacemakers. Salmi J, et al. **Strahlenther Onkol** 1990 Feb;166(2):153-6

Prenatal exposure to a low-frequency electromagnetic field demasculinizes adult scent marking behavior and increases accessory sex organ weights in rats. McGivern RF, et al. **Teratology** 1990 Jan;41(1):1-8

[Preliminary investigation of neurasthenic syndrome induced by occupational hazards] Wang HL. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Oct; 22(5):278-81, 317-8 (Eng. Abstr.) **(Chi)**

[Inductive stimulation] Eichhorn KF, et al. **Biomed Tech (Berlin)** 1990 Jun;35(6):139-44 (Eng. Abstr.) **(Ger)**

[Cyclotron resonance as a cause of biological effects of weak electric and magnetic fields?] Leitgeb N. **Biomed Tech (Berlin)** 1990 Jun;35(6):135-8 (Eng. Abstr.) **(Ger)**

[Perceptual sensitivity to 50 Hz alternating fields and alternating current (comment on the contribution by W. Irnich and L. Batz)] Schaefer H. **Biomed Tech (Berlin)** 1990 May;35(5):112-4 **(Ger)**

[The study of the central motor conduction time to the leg: normal findings and methodologic observations] Claus D, et al. **EEG EMG** 1989 Sep;20(3):165-70 (Eng. Abstr.) **(Ger)**

[Interactions of external magnetic fields and metallic middle ear implants] Schadel A, et al. **HNO** 1989 Aug;37(8):315-9 (Eng. Abstr.) **(Ger)**

[Numerical variation in synaptic ribbons of rat pinealocytes under magnetic storm conditions and on calm days] Bardasano JL, et al. **J Hirnforsch** 1989;30(6):639-43 (Eng. Abstr.) **(Ger)**

[Validation of a Doppler catheter for intravascular flow measurement in vivo. A comparison with simultaneous electromagnetic flow measurement] Voelker W, et al. **Ultraschall Med** 1990 Apr;11(2):91-4 (Eng. Abstr.) **(Ger)**

[Levels of the electromagnetic field in the vicinity of therapeutic devices using radiofrequency and microwaves] Scandurra G. **Med Lav** 1989 Jul-Aug;80(4):335-40 (Eng. Abstr.) **(Ita)**

[Pulsed magnetic fields. Observations in 353 patients suffering from chronic pain] Di Massa A, et al. **Minerva Anestesiol** 1989 Jul-Aug;55(7-8):295-9 (Eng. Abstr.) **(Ita)**

[Occupational exposure to electromagnetic fields of extremely low frequency (with particular regard to power plants) and the health status of workers, based on a literature review] Aniolczyk H. **Med Pr** 1990;41(1):25-33 (23 ref.) (Eng. Abstr.) **(Pol)**

[Dissipative functions of processes of electromagnetic radiation interaction with biological objects] Chukova IuP. **Biofizika** 1989 Sep-Oct;34(5):898-900 (Eng. Abstr.) **(Rus)**

[Detailed mechanism of radiation transmission of nervous pulses] Khazen AM. **Biofizika** 1990 Mar-Apr;35(2):343-6 (Eng. Abstr.) **(Rus)**

[The use of surface electromagnetic waves of IR range for recording the protein sorption on the phase boundary and optic biosensors on this basis] Silin VI, et al. **Biofizika** 1990 Jan-Feb;35(1):58-61 (Eng. Abstr.) **(Rus)**

[Distribution of millimeter-band electromagnetic fields in model and biological tissues during irradiation in the reactive zone of an irradiator] Betskii OV, et al. **Dokl Akad Nauk SSSR** 1989 Nov-Dec;309(1):230-3 **(Rus)**

[The characteristics of the bioresponse to exposure to radio-frequency electromagnetic radiation] Chukova IuP. **Dokl Akad Nauk SSSR** 1990;311(2):506-8 **(Rus)**

[Effects of constant magnetic field on the growth and metastasizing of Lewis carcinoma in mice] Petik AV, et al. **Eksp Onkol** 1990;12(4):73-5 (Eng. Abstr.) **(Rus)**

[Effect of chronic effect of the electrostatic field on various biochemical indicators of the tissues] Romodanova EA, et al. **Fiziol Zh** 1990 May-Jun;36(3):30-4 (Eng. Abstr.) **(Rus)**

[A magnetophoretic method of diagnosis of glucosephosphate dehydrogenase deficiency in the erythrocytes] Chikov VM, et al. **Gematol Transfuziol** 1990 Feb;35(2):36-7 **(Rus)**

[Cytogenetic indicators as the criteria of hygienic evaluation of the effect of static electric field and ion currents] Akimenko VIa, et al. **Gig Sanit** 1989 Oct;(10):50-2 **(Rus)**

[Substantiation of the necessity and possibility of studying the genetic risk of low energy physical factors] Antipenko EN, et al. **Gig Sanit** 1989 Oct;(10):59-63 (45 ref.) **(Rus)**

[Physiological criteria of evaluation of the functional status of the central nervous system in hygienic standardization of the electric field of industrial frequency] Bezdolnaia IS. **Gig Sanit** 1989 Oct;(10):78-9 **(Rus)**

[Principles and methods of modeling of electromagnetic fields in medico-biological experiments in hygienic standardization] Bitkin SV, et al. **Gig Sanit** 1990 May; (5):92-3 **(Rus)**

[Changes in enzyme activity of the lymphocytes in animals in the evaluation of the adaptive reactions to electromagnetic fields of industrial frequency] Dyshlovoi VD, et al. **Gig Sanit** 1989 Oct;(10):80-1 **(Rus)**

[Effect of a non-homogenous constant magnetic field on reproductive function] Gritsiuk VI, et al. **Gig Sanit** 1989 Aug;(8):83-4 **(Rus)**

[Calculation of risk probability in hygienic standardization of electromagnetic fields] Ivanov DS. **Gig Sanit** 1989 Oct; (10):73-5 **(Rus)**

[Medico-biological aspects of the effect of modulated high-frequency radiation] Kaliada TV, et al. **Gig Sanit** 1989 Oct;(10):39-41 (Eng. Abstr.) **(Rus)**

[Problems of hygienic standardization of electromagnetic fields produced by teletransmitting objects] Karachev II. **Gig Sanit** 1989 Oct;(10):26-9 (Eng. Abstr.) **(Rus)**

[Informative value of various biochemical indicators in the evaluation of the effects on the body of variable magnetic and electric fields of low and industrial frequencies] Kolodub FA. **Gig Sanit** 1989 Oct;(10):87-9 **(Rus)**

[Electrohydraulic disinfection of waste water and its biological effect on animals] Kondrat'ev VS, et al. **Gig Sanit** 1989 Aug;(8):76-8 **(Rus)**

[Analysis of the flow of Soviet publications on the biological effect of electromagnetic fields of radio frequency] Leonskaia GI, et al. **Gig Sanit** 1989 Oct;(10):90-2 **(Rus)**

[Changes in the intensity of magnetic fields during contact electric welding] Maksimenko NV. **Gig Sanit** 1989 Oct; (10):54-5 **(Rus)**

[Study of the effect of microwave radiation on the nervous system (results of the Soviet-American Research Project)] Mitchel KL, et al. **Gig Sanit** 1989 Oct;(10):70-3 **(Rus)**

[Registering technics for space scanning of radar aerial parameters during hygienic assessment of electromagnetic fields] Musil Ia, et al. **Gig Sanit** 1990 Jan;(1):67-9 **(Rus)**

[Use of the parameters of the locomotor activity of animals in experimental and hygienic studies of microwave radiation] Navakatikian MA, et al. **Gig Sanit** 1989 Oct; (10):82-5 **(Rus)**

[Standardization of environmental electromagnetic fields generated by meteorological radars] Nikitina NG, et al. **Gig Sanit** 1989 Oct;(10):48-50 (Eng. Abstr.) **(Rus)**

[Biological effect and hygienic standardization of constant magnetic fields as the environmental and occupational factors] Pa'ltsev IuP. **Gig Sanit** 1989 Oct;(10):55-9 (37 ref.) **(Rus)**

[Status of the monoaminergic systems and enzymes of energy metabolism in rats exposed to electrostatic fields of 120 kV/m in a chronic experiment] Portnov FG, et al. **Gig Sanit** 1989 Oct;(10):89-90 **(Rus)**

[Scientific basis of hygienic evaluation and regulation of physical environmental factors] Shandala MG. **Gig Sanit** 1989 Oct;(10):4-8 **(Rus)**

[Hygienic evaluation of low-frequency magnetic fields of complex spectral composition] Shtemler VM, et al. **Gig Sanit** 1989 Oct;(10):32-6 (Eng. Abstr.) **(Rus)**

[Hygienic standardization of physical factors generated by civil aviation in residential areas] Soldatchenkov VN. **Gig Sanit** 1989 Oct;(10):24-6 (Eng. Abstr.) **(Rus)**

[Methodologic approaches to the study of the effect of low levels of non-ionizing radiation on the health status of humans in populated areas] Stoian EF, et al. **Gig Sanit** 1989 Jun;(6):30-1 **(Rus)**

[Functional asymmetry as an indicator of the biological effect of ultrahigh frequency electromagnetic fields] Stoian EF. **Gig Sanit** 1989 Oct;(10):81-2 **(Rus)**

[Experimental analysis of biological effects of microwaves: their systemic, ultrastructural and neuronal mechanisms] Vasilevskiĭ NN, et al. **Gig Sanit** 1989 Oct;(10):41-5 (Eng. Abstr.) **(Rus)**

[Work experience of sanitary and epidemiological stations of Kazakhstan in conducting the monitoring of the electromagnetic field sources] Voronina TV, et al. **Gig Sanit** 1990 Mar;(3):81-3 **(Rus)**

[Hygienic evaluation and the problems of standardization of magnetic fields with the frequency of 50 Hz] Ziubanova LF, et al. **Gig Sanit** 1989 Oct;(10):30-2 (Eng. Abstr.) **(Rus)**

[The role of multiple physical environmental factors on health of the population] Zviniatskovskiĭ IaI, et al. **Gig Sanit** 1989 Oct;(10):8-10 (Eng. Abstr.) **(Rus)**

[Effect of ultra-high frequency electromagnetic energy on the rheologic properties of the blood] Levin GIa, et al. **Gig Tr Prof Zabol** 1990;(1):28-31 (Eng. Abstr.) **(Rus)**

[Occupational health issues in the technologic application of direct magnetic fields in the production of transistors] Syromiatnikov IuP, et al. **Gig Tr Prof Zabol** 1990;(4):8-11 (Eng. Abstr.) **(Rus)**

[Electromagnetic therapy after phlebectomy] Galimzianov FV. **Khirurgiia (Mosk)** 1990 May;(5):108-10 (Eng. Abstr.) **(Rus)**

[Acid resistance of erythrocytes at different rates of induction of constant magnetic field] Cherkasov GV. **Kosm Biol Aviakosm Med** 1989 Sep-Oct;23(5):90-2 **(Rus)**

[Status of the lipid phase of plasma membranes of the rat heart after repeated exposure to an alternate magnetic field of 50 Hz frequency] Chernysheva ON. **Kosm Biol Aviakosm Med** 1990 Jan–Feb;24(1):30–1 (Eng. Abstr.) **(Rus)**

[Effect of a constant high intensity magnetic field on reproductive functions in male rats] Kokoreva LV, et al. **Kosm Biol Aviakosm Med** 1990 Jan–Feb;24(1):28–30 (Eng. Abstr.) **(Rus)**

[Reaction of the endocrine system and peripheral blood of rats to a single and chronic exposure to pulsed low-frequency electromagnetic field] Zagorskaia EA, et al. **Kosm Biol Aviakosm Med** 1990 Mar–Apr;24(2):56–60 (Eng. Abstr.) **(Rus)**

[Effect of low-frequency electromagnetic fields on the individual functional systems of the body] Zagorskaia EA, et al. **Kosm Biol Aviakosm Med** 1990 May–Jun;24(3):3–11 (116 ref.) (Eng. Abstr.) **(Rus)**

[Reaction of the endocrine system to continuous and intermittent electromagnetic fields] Zagorskaia EA. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):4–14 (126 ref.) (Eng. Abstr.) **(Rus)**

[Theoretical simulation of temperature distribution in electromagnetic hyperthermia of tumors] Kudriavtsev IuS, et al. **Med Radiol (Mosk)** 1990 Feb;35(2):3–9 (Eng. Abstr.) **(Rus)**

[The impulse electromagnetic field in the treatment of dystrophic lesions of the retina] Skrinnik AV, et al. **Oftalmol Zh** 1989;(8):459–62 (Eng. Abstr.) **(Rus)**

[Treatment of fractures] Diusembaev AA, et al. **Ortop Travmatol Protez** 1990 May;(5):54–5 **(Rus)**

[Reaction of the autonomic nervous system of children to a magnetic field] Nikulin MA, et al. **Pediatriia** 1989;(9):59–62 (Eng. Abstr.) **(Rus)**

[Decimetric waves and radon baths in the treatment of juvenile rheumatoid arthritis] Shliapak EA, et al. **Pediatriia** 1989;(8):98–9 **(Rus)**

[Use of UHF electrical field in combination wtih antitubercular agents in the treatment of patients with infiltrative pulmonary tuberculosis] Pavliunina LD, et al. **Probl Tuberk** 1990;(2):29–32 (Eng. Abstr.) **(Rus)**

[The effect on an impulse electromagnetic field on the bioamine allowance of the spinal ganglion in rats under whole-body exposure] Merkulova LM. **Radiobiologiia** 1990 Mar–Apr;30(2):252–5 (Eng. Abstr.) **(Rus)**

[Magnetotherapy of arrhythmia] Klemenov AV. **Sov Med** 1989;(10):119 **(Rus)**

[A complex method of regional barotherapy of Raynaud's disease at a specialized polyclinic unit] Galimzianov FV. **Vestn Khir** 1989 Dec;144(12):46–8 (Eng. Abstr.) **(Rus)**

[The potentials for using low-intensity millimeter waves in the combined sanatorium-health resort treatment of peptic ulcer patients (experimental and clinical research)] Serebrina LA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr;(2):45–8 (Eng. Abstr.) **(Rus)**

[Electrical and electromagnetic stimulation of bone healing] Simko P, et al. **Bratisl Lek Listy** 1990 Jan;91(1):62–5 (Eng. Abstr.) **(Slo)**

[A preliminary report to the Committee of Alternative Medicine: it is impossible to predict the effect of magnetic therapy. More studies on fractures with prolonged wound healing are needed] Lynöe N, et al. **Lakartidningen** 1989 Nov 29;86(48):4243–9 **(Swe)**

INSTRUMENTATION

The CDRH Helix: an in vivo evaluation. Anhalt D, et al. **Int J Hyperthermia** 1990 Jan–Feb;6(1):241–52

The compared effect of a four-coiled system in pulsed electromagnetic field stimulation. Cakirgil GS, et al. **Orthopedics** 1989 Nov;12(11):1481–4

A new device for the detection of sponges and other foreign objects left accidentally in the operative field. Marincola F, et al. **Surg Gynecol Obstet** 1990 Mar;170(3):259–60

Electromagnetic field focusing system in clinical neurosurgery—preliminary report. Patil A, et al. **Surg Neurol** 1990 Aug;34(2):94–100

Dual-search coil for measuring 3-dimensional eye movements in experimental animals. Hess BJ. **Vision Res** 1990;30(4):597–602

[Ophthalmological hand-operated electromagnetic device EMGR-02] Semiusov GG. **Med Tekh** 1990 Mar–Apr;(2):47–8 **(Rus)**

METHODS

Surface transmission probe for noninvasive measurements of dielectric properties of organ tissues at frequencies between 1 MHz and 300 MHz. Pottel R, et al. **Biomed Tech (Berlin)** 1990 Jul–Aug;35(7–8):158–61

Identification of sources of brain neuronal activity with high spatiotemporal resolution through combination of neuromagnetic source localization (NMSL) and magnetic resonance imaging (MRI). Pantev C, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar;75(3):173–84

[Para-magnetic measurement of oxygen concentration] Boenick U. **Biomed Tech (Berlin)** 1990;35 Suppl 1:60–2 **(Ger)**

STANDARDS

[Protection of the population from electromagnetic radiation as the health problem] Dumanskiĭ IuD. **Gig Sanit** 1989 Oct;(10):63–7 (39 ref.) **(Rus)**

[Calculation of risk probability in hygienic standardization of electromagnetic fields] Ivanov DS. **Gig Sanit** 1989 Oct;(10):73–5 **(Rus)**

ELECTROMYOGRAPHY

On computer recognition of nystagmus signal contaminated by EMG noise. Juhola M, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:217–9

Ischemic and hyperventilation tests in 28 twins. Steidl L, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:247–53

Esophageal electromyography in scleroderma patients with functional dysphagia. Bortolotti M, et al. **Am J Gastroenterol** 1989 Dec;84(12):1497–502

Electrical activity and soreness in muscles after exercise. Berry CB, et al. **Am J Phys Med Rehabil** 1990 Apr;69(2):60–6

Safe harbors for electromyographers. Commentary. Witten CM. **Am J Phys Med Rehabil** 1989 Oct;68(5):254–5

Sphincteric electromyography. Archibald KC, et al. **Arch Phys Med Rehabil** 1967 Aug;48(8):387–92

Electromyographic versus rhythmic positional biofeedback in computerized gait retraining with stroke patients. Mandel AR, et al. **Arch Phys Med Rehabil** 1990 Aug;71(9):649–54

Upper facial muscle activity and survival after hypoxic insult in rats. Paloheimo MP. **Behav Brain Res** 1989 Oct 1;35(1):81–3

Clinical electromyography. Principles and practice. Izzo KL, et al. **Clin Podiatr Med Surg** 1990 Jan;7(1):179–94 (8 ref.)

Polyneuropathy: potential cause of difficult weaning. Coronel B, et al. **Crit Care Med** 1990 May;18(5):486–9

Surgical management of brachial plexus birth injuries [letter; comment] Buck BC. **Dev Med Child Neurol** 1989 Oct;31(5):691–2 Comment on: Dev Med Child Neurol 1988 Dec;30(6):824–8.

A comparison between electromyography and anal endosonography in mapping external anal sphincter defects. Law PJ, et al. **Dis Colon Rectum** 1990 May;33(5):370–3

Use of a hemostat/stimulator probe and dedicated nerve locator/monitor for parotid surgery. Rea JL. **Ear Nose Throat J** 1990 Aug;69(8):566, 570, 573

American Association of Electrodiagnostic Medicine, annual meeting. Washington, DC, 15–16 September 1989. Abstracts. **Electroencephalogr Clin Neurophysiol** 1990 Sep;76(3):37P–70P

Computerized interpretation of electromyographic data. Jamieson PW. **Electroencephalogr Clin Neurophysiol** 1990 May;75(5):392–400

Clonus in man: a rhythmic oscillation maintained by a reflex mechanism. Rossi A, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):56–63

Referral diagnosis versus electroneurophysiological finding. Two years electroneuromyographic consultation in a rehabilitation clinic. Danner R. **Electromyogr Clin Neurophysiol** 1990 Apr–May;30(3):153–7

Segmental hypermobility in lumbar spine and entrapment of dorsal rami. Sihvonen T, et al. **Electromyogr Clin Neurophysiol** 1990 Apr–May;30(3):175–80

The EMG-force relationships of skeletal muscle; dependence on contraction rate, and motor units control strategy. Solomonow M, et al. **Electromyogr Clin Neurophysiol** 1990 Apr–May;30(3):141–52

Anal sphincter EMG in anorectal disorders. Strijers RL, et al. **Electromyogr Clin Neurophysiol** 1989 Nov–Dec;29(7–8):405–8

Reproducibility of electromyographic patterns in stretch-shortening type contractions. Gollhofer A, et al. **Eur J Appl Physiol** 1990;60(1):7–14

Inter-relationships among anticipatory EMG activity, Hoffmann reflex amplitude and EMG reaction time during voluntary standing movement. Yamashita N, et al. **Eur J Appl Physiol** 1990;60(2):98–103

Electromyogram and force during stimulated fatigue tests of muscles in dominant and non-dominant hands. Zijdewind C, et al. **Eur J Appl Physiol** 1990;60(2):127–32

Influence of anesthetics on the electromyographic response evoked by transcranial electrical cortex stimulation [letter] Zentner J. **Funct Neurol** 1989 Jul–Sep;4(3):299–300

Temporal feature extraction and clustering analysis of electromyographic linear envelopes in gait studies. Chen JJ, et al. **IEEE Trans Biomed Eng** 1990 Mar;37(3):295–302

A pseudoperiodic model for myoelectric signal during dynamic exercise. Helal JN, et al. **IEEE Trans Biomed Eng** 1989 Nov;36(11):1092–7

The theoretical development of a multichannel time-series myoprocessor for simultaneous limb function detection and muscle force estimation. Triolo RJ, et al. **IEEE Trans Biomed Eng** 1989 Oct;36(10):1004–17

The experimental demonstration of a multichannel time-series myoprocessor: system testing and evaluation. Triolo RJ, et al. **IEEE Trans Biomed Eng** 1989 Oct;36(10):1018–27

Role of electromyography in assessment of anorectal sensorimotor function. Rogers J. **Indian J Gastroenterol** 1990 Apr;9(2):107–9

The effectiveness of EMG biofeedback in the treatment of arm function after stroke. Crow JL, et al. **Int Disabil Stud** 1989 Oct–Dec;11(4):155–60

EEG and SEMG monitoring during induction and maintenance of anesthesia with propofol. Herregods L, et al. **Int J Clin Monit Comput** 1989 Apr;6(2):67–73

EMG diagnostic scanning: a selective review of the literature. Blakely WW. **Int J Psychosom** 1989;36(1–4):35–6 (15 ref.)

Intramuscular and esophageal electrode recordings of posterior cricoarytenoid activity in normal subjects. Kuna ST, et al. **J Appl Physiol** 1990 Apr;68(4):1739–45

Electromyogram power spectra frequencies associated with motor unit recruitment strategies. Solomonow M, et al. **J Appl Physiol** 1990 Mar;68(3):1177–85

Electrophysiologic recording as an aid in the clinical evaluation of "muscle jerks". Wee AS, et al. **J Miss State Med Assoc** 1990 Apr;31(4):117–22

Increased amplitude of F-response in Lambert-Eaton myasthenic syndrome [letter] Henriet M, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):174

EMG responses in leg muscles to postural perturbations in Huntington's disease. Huttunen J, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):55–62

EMG power spectrum, turns-amplitude analysis and motor unit potential duration in neuromuscular disorders. Fuglsang-Frederiksen A, et al. **J Neurol Sci** 1990 Jun;97(1):81–91

Power spectrum analysis of the EMG pattern in normal and diseased muscles. Rønager J, et al. **J Neurol Sci** 1989 Dec;94(1–3):283–94

Electromyographic analysis of rowing stroke biomechanics. Rodriguez RJ, et al. **J Sports Med Phys Fitness** 1990 Mar;30(1):103–8

Clinical neurophysiologic studies in stiff-man syndrome: use of simultaneous video-electroencephalographic-surface electromyographic recording. Armon C, et al. **Mayo Clin Proc** 1990 Jul;65(7):960–7

Amyotrophic lateral sclerosis: macro-EMG and twitch forces of single motor units. Dengler R, et al. **Muscle Nerve** 1990 Jun;13(6):545–50

M wave changes with temperature in amyotrophic lateral sclerosis and disorders of neuromuscular transmission. Denys EH. **Muscle Nerve** 1990 Jul;13(7):613–7

Invited review: limitations in predicting pathologic abnormality of nerves from the EMG examination. Dyck PJ. **Muscle Nerve** 1990 May;13(5):371–5 (27 ref.)

Electromyographic and morphological functional compensation in late poliomyelitis. Einarsson G, et al. **Muscle Nerve** 1990 Feb;13(2):165–71

EMG evaluation of the floppy infant: differential diagnosis and technical aspects. Jones HR Jr. **Muscle Nerve** 1990 Apr;13(4):338–47 (60 ref.)

Spectrum of patients with EMG features of polyradiculopathy without neuropathy. McGonagle TK, et al. **Muscle Nerve** 1990 Jan;13(1):63–9

Creatine kinase and fibrillation potentials in patients with late sequelae of polio. Nelson KR. **Muscle Nerve** 1990 Aug;13(8):722–5

SFEMG improvement with remission in the cancer-associated Lambert-Eaton myasthenic syndrome. Oh SJ. **Muscle Nerve** 1989 Oct;12(10):844–8

Clinical and electromyographic studies of postpoliomyelitis muscular atrophy. Ravits J, et al. **Muscle Nerve** 1990 Aug;13(8):667–74

Stimulation SFEMG in myasthenia gravis [letter; comment] Trontelj JV. **Muscle Nerve** 1990 May;13(5):458–9 Comment on: Muscle Nerve 1989 Jan;12(1):38–42.

Single-fiber electromyography in experimental autoimmune myasthenia gravis. Verschuuren JJ, et al. **Muscle Nerve** 1990 Jun;13(6):485–92

Sonographic imaging of muscle contraction and fasciculations: a correlation with electromyography. Walker FO, et al. **Muscle Nerve** 1990 Jan;13(1):33–9

Electromyography of the pelvic floor: indications and technique. Vingerhoets HM, et al. **Neth J Surg** 1989 Dec;41(6):156–9

F waves in cervical radiculopathy [letter] Cyrulnik RA, et al. **Neurology** 1989 Oct;39(10):1403

Positive giant potentials: an electromyographic investigation. Pinelli P, et al. **Neurophysiol Clin** 1990 Apr;20(1):43–52

Voluntary control of agonist premotor silence preceding limb movements of maximal effort. Walter CB. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):819–26

The electromyographic examination to evaluate the external sphincter muscle in anorectal malformations. Hayashi A, et al. **Prog Pediatr Surg** 1989;24:33–9

An electrophysiological method for monitoring blood flow in skeletal muscle. An experimental study in the rat. Larsson L. **Scand J Plast Reconstr Surg Hand Surg** 1989;23(3):181–6

Electromyography and nerve conduction laboratory in clinical neurologic practice. Nelson KR, et al. **Semin Neurol** 1990 Jun;10(2):131–40 (44 ref.)

Biofeedback in back muscle strengthening. Asfour SS, et al. **Spine** 1990 Jun;15(6):510–3

Electromyographic study of respiratory muscles during human diving at 46 ATA. Lenoir P, et al. **Undersea Biomed Res** 1990 Mar;17(2):121–37

Evaluation of flow electromyography in patients with benign prostatic hyperplasia. Kitada S, et al. **Urol Int** 1990;45(3):148–52

[Electromyographic findings in diabetics] Kalita Z, et al. **Cas Lek Cesk** 1990 Feb 2;129(5):139–41 (Eng. Abstr.) **(Cze)**

[The significance of EMG artefacts in isoelectric EEG] Mayr

N, et al. **EEG EMG** 1990 Mar;21(1):56–8 (Eng. Abstr.) **(Ger)**

[Extensive, continuous fasciculations of the lower leg as an isolated symptom—a clinical and electromyography follow-up] Bischoff C, et al. **Fortschr Neurol Psychiatr** 1990 Jun;58(6):237–40 (Eng. Abstr.) **(Ger)**

[Early postoperative intestinal motility following abdominal surgery in an animal experiment] Schippers E, et al. **Langenbecks Arch Chir** 1990;375(3):175–80 (Eng. Abstr.) **(Ger)**

[Oculopharyngeal muscular dystrophy. Clinical, electromyography and muscle biopsy findings in 2 cases] Klostermann W, et al. **Nervenarzt** 1990 Jun;61(6):351–5 **(Ger)**

[Clinical, electromyography and pathologic-anatomic studies in myopathy—a contribution to rational diagnostic strategy] Both R, et al. **Schweiz Arch Neurol Psychiatr** 1990; 141(1):5–16 (Eng. Abstr.) **(Ger)**

[Possibilities and limitations of electromyography in peripheral nerve lesions] Ludin HP. **Schweiz Rundsch Med Prax** 1989 Sep 26;78(39):1058–62 (Eng. Abstr.) **(Ger)**

[The significance of electromyography in detecting myopathies in functional disorders of the thyroid gland] Mazzoli B, et al. **Wien Klin Wochenschr** 1989 Sep 15; 101(17):595–9 (64 ref.) (Eng. Abstr.) **(Ger)**

[Proprioceptive regulation of standing in the human. An electromyography study] Hufschmidt HJ, et al. **Z Orthop** 1990 Jan–Feb;128(1):16–20 (Eng. Abstr.) **(Ger)**

[Frontal electromyography–biofeedback therapy in spasmodic torticollis in children] Priolo C, et al. **Minerva Pediatr** 1989 Jun;41(6):335–9 (Eng. Abstr.) **(Ita)**

[Study of C-response in cervical myelopathy] Ishikawa M. **Nippon Ika Daigaku Zasshi** 1989 Aug;56(4):400–7 (Eng. Abstr.) **(Jpn)**

[Clinical electromyography and electrodiagnosis] Hachisuka K. **Nippon Rinsho** 1990 Jul;48(7):1446–50 **(Jpn)**

[Hip abduction force measured by a new method and its relation to EMG activity] Murakami K. **Nippon Seikeigeka Gakkai Zasshi** 1989 Nov;63(11):1358–67 (Eng. Abstr.) **(Jpn)**

[Electromyograph unit for automated analysis of interference electromyogram] Prokhorov EI, et al. **Med Tekh** 1989 Nov–Dec;(6):48–50 (Eng. Abstr.) **(Rus)**

[The electromyographic analysis of trembling hyperkinesis in Wilson–Konovalov's hepatocerebral dystrophy] Starikov AS. **Zh Vopr Neirokhir** 1990 May–Jun;(3):29–31 (Eng. Abstr.) **(Rus)**

[The importance of electromyography of the external urethral sphincter muscle in the diagnosis of urinary incontinence in women] Filický J, et al. **Cesk Gynekol** 1989 Sep;54(8):589–92 **(Slo)**

[The reflex response in the abductor pollicis brevis muscle after tapping the distal segments of the fingers, the ulnar olecranon and scapular acromion. Electromyographic study] Lisý L. **Cesk Neurol Neurochir** 1989 Sep; 52(5):298–305 (Eng. Abstr.) **(Slo)**

ADVERSE EFFECTS

Pneumothorax. Complication of needle EMG of thoracic wall. Miller J. **N J Med** 1990 Aug;87(8):653

INSTRUMENTATION

A contribution to the monitoring of neuromuscular blockade: an evaluation of the Datex Relaxograph. Mortier E, et al. **Acta Anaesthesiol Belg** 1989;40(2):123–6

Fabrication of suction-cup electrodes for electromyography. Moore JC. **Electroencephalogr Clin Neurophysiol** 1966 Apr; 20(4):405–6

Relationship between the size of the recording electrodes and morphology of the compound muscle action potentials. Wee AS, et al. **Electromyogr Clin Neurophysiol** 1990 Apr–May;30(3):165–8

Electrode for selective recording of electromyograms from intercostal muscles. Whitelaw WA, et al. **J Appl Physiol** 1989 Nov;67(5):2125–8

The reduction of bruxism using contingent EMG audible biofeedback: a case study. Feehan M, et al. **J Behav Ther Exp Psychiatry** 1989 Jun;20(2):179–83

Onset and offset of electromyographic (EMG) silence in asterixis. Ugawa Y, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):260–2

Surface electromyographic electrode pair with built-in buffer-amplifiers. Fujisawa M, et al. **J Prosthet Dent** 1990 Mar;63(3):350–2

Devices for the diagnosis and treatment of temporomandibular disorders. Part II: Electromyography and sonography [published erratum appears in J Prosthet Dent 1990 May;63(5):13A] Mohl ND, et al. **J Prosthet Dent** 1990 Mar;63(3):332–6 (71 ref.)

Ag/AgCl electrode assembly for thin smooth muscle electromyography. Crenner F, et al. **Med Biol Eng Comput** 1989 Jul;27(4):346–56

Simultaneous measurement of surface EMG and movements for clinical use. Kleissen RF, et al. **Med Biol Eng Comput** 1989 May;27(3):291–7

[Computer-assisted recording and evaluation of electromyography signals] Baur S, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:235–6 **(Ger)**

[EMG-controlled postoperative exercise therapy using the ELMOBIL] Menke W, et al. **Biomed Tech (Berlin)** 1990 Jul–Aug;35(7–8):162–5 (Eng. Abstr.) **(Ger)**

[Effect of inhomogenous tissue on noninvasive detection of the velocity of evoked transmission in motor muscle units—study with the trough model] Schneider J, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:198–9 **(Ger)**

[Procedures for computer-assisted electromyography analysis] Strempel J, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:196–7 **(Ger)**

[Simultaneous intra-urethral EMG and pressure measurement in assessing functional changes of the urethra] Kölle D, et al. **Gynakol Rundsch** 1989;29 Suppl 2:383–4 **(Ger)**

[The informative value of surface electromyography of respiratory muscles] Schinko HA, et al. **Wien Med Wochenschr Suppl** 1989;104:suppl 27–8 **(Ger)**

METHODS

Quantitative surface electromyography (qEMG): applications in anaesthesiology and critical care. Paloheimo M. **Acta Anaesthesiol Scand Suppl** 1990;93:1–83 (132 ref.)

Evaluation of laryngeal muscle function by quantitative analysis of the EMG interference pattern. Lindestad PA, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun; 109(5–6):467–72

Laryngeal electromyography. Blair RL. **Arch Otorhinolaryngol** 1989;246(5):395–6 (4 ref.)

Single-wire recording of regional activity in the human masseter muscle. Tonndorf ML, et al. **Brain Res Bull** 1989 Jul–Aug;23(1–2):155–9

Muscle fiber conduction velocity and contractile properties estimated from surface electrode arrays. Nishizono H, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb; 75(2):75–81

Evaluation of the estimation of muscle fiber conduction velocity. Surface versus needle method. Zwarts MJ. **Electroencephalogr Clin Neurophysiol** 1989 Dec;73(6):544–8

A computerized re-evaluation of the collision technique. Nix WA, et al. **Electromyogr Clin Neurophysiol** 1989 Nov–Dec; 29(7–8):391–7

EMG dynamics in polymyositis and dermatomyositis in adults. Szmidt-Salkowska E, et al. **Electromyogr Clin Neurophysiol** 1989 Nov–Dec; 29(7–8):399–404

The application of neural networks to myoelectric signal analysis: a preliminary study. Kelly MF, et al. **IEEE Trans Biomed Eng** 1990 Mar;37(3):221–30

Temporal stability of paraspinal electromyographic recordings in low back pain and non-pain subjects. Arena JG, et al. **Int J Psychophysiol** 1990 Jul;9(1):31–7

Diaphragmatic electromyography using a multiple electrode array. Daubenspeck JA, et al. **J Appl Physiol** 1989 Oct; 67(4):1525–34

Clinical profile and electrodiagnostic study of peripheral neuropathy. Goel UC, et al. **J Assoc Physicians India** 1989 Sep;37(9):578–82

Electrocutaneous reflexes and multimodality evoked potentials in multiple sclerosis. Friedli WG, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):391–7

Jitter in the muscle fibre. Trontelj JV, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan;53(1):49–54

A method for separation of superimposed electromyographic responses in man. Holl G, et al. **J Neurosci Methods** 1990 May;32(2):111–5

Location of needle electrode recording sites in the human masseter muscle by magnetic resonance imaging. McMillan AS, et al. **J Neurosci Methods** 1989 Oct;30(1):85–9

Method for identification and classification of single motor unit potentials in diagnostic electromyography. Widmalm SE, et al. **J Oral Rehabil** 1990 Jan;17(1):49–59

Electromyogram (EMG) recordings from the subscapularis muscle: description of a technique. Németh G, et al. **J Orthop Res** 1990 Jan;8(1):151–3

Dynamic electromyography. I. Numerical representation using principal component analysis. Wootten ME, et al. **J Orthop Res** 1990 Mar;8(2):247–58

Dynamic electromyography. II. Normal patterns during gait. Wootten ME, et al. **J Orthop Res** 1990 Mar;8(2):259–65

Electromyographic and force patterns of cerebral palsy patients with windblown hip deformity. Nwaobi OM, et al. **J Pediatr Orthop** 1990 May–Jun;10(3):382–8

Method for EMG conduction velocity estimation which accounts for input and output noise. Rababy N, et al. **Med Biol Eng Comput** 1989 Mar;27(2):125–9

Study of the effects of motor unit recruitment and firing statistics on the signal-to-noise ratio of a myoelectric control channel. Zhang YT, et al. **Med Biol Eng Comput** 1990 May;28(3):225–31

Cross-talk from other muscles can contaminate EMG signals in reflex studies of the human leg. Türker KS, et al. **Neurosci Lett** 1990 Mar 26;111(1–2):164–9

Electromyography in disorders of neuromuscular transmission. Massey JM. **Semin Neurol** 1990 Mar; 10(1):6–11 (26 ref.)

[The inching test in the diagnosis of carpal tunnel syndrome. Apropos of 20 cases] Seror P. **Rev Rhum Mal Osteoartic** 1990 Feb;57(2):113–7 **(Fre)**

[Methodology and diagnostic possibilities of macro-EMG. II. Diagnostic possibilities] Nix WA, et al. **EEG EMG** 1990 Jun;21(2):96–102 (29 ref.) (Eng. Abstr.) **(Ger)**

[Methodology and diagnostic potentialities of macro-EMG. I. Methodology] Nix WA, et al. **EEG EMG** 1990 Mar; 21(1):45–50 (31 ref.) (Eng. Abstr.) **(Ger)**

[Electromyography of the human colon] Müller-Lissner S. **Z Gastroenterol** 1990 Feb;28(2):121–2 **(Ger)**

[A new method of evaluation of the masticatory function in humans] Riakhovskiĭ AN, et al. **Fiziol Zh** 1990 May–Jun; 36(3):94–8 (Eng. Abstr.) **(Rus)**

[Methodologic problems in short and long latency muscle reflex responses in man] Končok V. **Bratisl Lek Listy** 1990 Mar;91(3):233–6 (Eng. Abstr.) **(Slo)**

STANDARDS

Comments on standardization of reflex measurements in human masseter muscle, including silent periods. van der Glas HW, et al. **J Oral Rehabil** 1989 Nov;16(6):549–54

ELECTRON MICROSCOPY see **MICROSCOPY, ELECTRON**

ELECTRON PARAMAGNETIC RESONANCE see **ELECTRON SPIN RESONANCE**

ELECTRON PROBE MICROANALYSIS

Exceptional case of bone resorption in an osteo-odonto-keratoprosthesis. A scanning electron microscopy and X-ray microanalysis study. Caiazza S, et al. **Cornea** 1990 Jan;9(1):23–7

Calcium measurements with electron probe X-ray and electron energy loss analysis. LeFurgey A, et al. **Environ Health Perspect** 1990 Mar;84:57–73 (72 ref.)

Quantitative X-ray microanalysis of calcium in sea urchin eggs after quick-freezing and freeze-substitution. Validity of the method. Gillot I, et al. **Histochemistry** 1989; 92(6):523–9

Electron probe microanalysis of human teeth for the determination of individual age. Kosa F, et al. **Med Sci Law** 1990 Apr;30(2):109–14

Practical applications of energy dispersive X-ray microanalysis in diagnostic oral pathology. Daley TD, et al. **Oral Surg Oral Med Oral Pathol** 1990 Mar;69(3):339–44

Microprobe analysis of cryofixed, chemically untreated freeze-dried cochlear hair cells. Anniko M, et al. **ORL J Otorhinolaryngol Relat Spec** 1989;51(5):290–4

Energy-dispersive x-ray microscopy to trace gadolinium in tissues. Elster AD. **Radiology** 1989 Dec;173(3):868–70

Non-fibrous inorganic particles in human bronchoalveolar lavage fluids. Dumortier P, et al. **Scanning Microsc** 1989 Dec;3(4):1207–16; discussion 1217–8

Binding of ions to nuclear chromatin. von Zglinicki T, et al. **Scanning Microsc** 1989 Dec;3(4):1231–7; discussion 1237–9

Identification of 5'-adenylylimidodiphosphate-hydrolyzing enzyme activity in rabbit taste bud cells using X-ray microanalysis. Asanuma N. **Stain Technol** 1990;65(2):69–75

[Particulate contamination of infusion solutions and drug additives within the scope of long-term intensive therapy. 1. Energy dispersion electron images in the scanning electron microscope-REM/EDX] Walpot H, et al. **Anaesthesist** 1989 Oct;38(10):544–8 (Eng. Abstr.) **(Ger)**

[Roentgen microanalysis of dust particles in histologic sections of pneumoconiosis] Loos U, et al. **Pneumologie** 1990 Feb;44 Suppl 1:252–3 (Eng. Abstr.) **(Ger)**

METHODS

Correction for specimen movement after acquisition of element-specific electron microprobe images. Lamvik MK, et al. **J Microsc** 1989 Nov;156 (Pt 2):183–90

Determination of gold-labelled surface receptors on single cells by X-ray microanalysis. Peschke T, et al. **J Microsc** 1989 Nov;156 (Pt 2):191–9

Strontium and bromide as tracers in X-ray microanalysis of biological tissue. Wroblewski J, et al. **Scanning Microsc** 1989 Sep;3(3):861–4

Energy dispersive X-ray microanalysis, neutron activation analysis and atomic absorption spectrometry—comparison using biological specimens. Wróblewski R, et al. **Scanning Microsc** 1989 Jun;3(2):467–72

A review on the use of bulk specimen X-ray microanalysis in cancer research. Za.-Nagy I. **Scanning Microsc** 1989 Jun; 3(2):473–80; discussion 481–2 (97 ref.)

[Surface changes of dental alloys in oral environment—Part 1. Accuracy of EPMA analysis and its applicability to estimate corrosion of dental alloys] Hani H, et al. **Kokubyo Gakkai Zasshi** 1989 Dec;56(4):465–72 (Eng. Abstr.) **(Jpn)**

[The digital processing of the images in x-ray microanalysis] Buravkov SV. **Tsitologiia** 1989 Oct;31(10):1251–5 (Eng. Abstr.) **(Rus)**

STANDARDS

Standards for the application of X-ray microanalysis to biological specimens. Warley A. **J Microsc** 1990 Feb;157 (Pt 2):135–47 (77 ref.)

ELECTRON SPIN RESONANCE

Effect of clot formation and retraction on spin-echo MR images of blood: an in vitro study. Hayman LA, et al. **AJNR** 1989 Nov–Dec;10(6):1155–8

Electron paramagnetic resonance imaging. Berliner LJ. **Arch Biol Med Exp (Santiago)** 1989 Jul;22(2):119–22

A new bifunctional spin-label suitable for saturation-transfer

EPR studies of protein rotational motion. Wilcox MD, et al. **Biochemistry** 1990 Jun 19;29(24):5734–43
Reconstruction of the probe angular distribution from a series of electron spin resonance spectra of tilted oriented samples. Burghardt TP, et al. **Biophys J** 1989 Sep; 56(3):525–34
Vanadyl–induced Fenton–like reaction in RNA. An ESR and spin trapping study. Carmichael AJ. **FEBS Lett** 1990 Feb 12;261(1):165–70
The 2nd International Symposium on Spin Trapping and Aminoxyl Radical Chemistry. Guelph, Ontario, Canada, July 2–7, 1989. Proceedings. **Free Radic Res Commun** 1990; 9(3–6):159–405
Endothelial cells as a source of oxygen–free radicals. An ESR study. Arroyo CM, et al. **Free Radic Res Commun** 1990; 9(3–6):287–96
Hypochlorite–modified adenine nucleotides: structure, spin–trapping, and formation by activated guinea pig polymorphonuclear leukocytes. Bernofsky C, et al. **Free Radic Res Commun** 1990;9(3–6):303–15
Use of spin traps in intact animals undergoing myocardial ischemia/reperfusion: a new approach to assessing the role of oxygen radicals in myocardial "stunning". Bolli R, et al. **Free Radic Res Commun** 1990;9(3–6):169–80
Spin–labelling studies of the interaction of 9–amino–1,2,3,4–tetrahydroacridine (THA), a proposed drug for the treatment of Alzheimer's disease, with erythrocyte membranes. Butterfield DA, et al. **Free Radic Res Commun** 1990;9(3–6):361–6
ESR spin trapping and cytotoxicity investigations of freshly fractured quartz: mechanism of acute silicosis. Dalal NS, et al. **Free Radic Res Commun** 1990;9(3–6):259–66
Electron spin resonance studies on the degradation of hydroperoxides by rat liver cytosol. Davies MJ. **Free Radic Res Commun** 1990;9(3–6):251–8
Spin trapping of ibuprofen radicals: evidence that ibuprofen is a hydroxyl radical scavenger. Hamburger SA, et al. **Free Radic Res Commun** 1990;9(3–6):337–42
Spin trapping and associated vocabulary. Janzen EG. **Free Radic Res Commun** 1990;9(3–6):163–7
Free radicals and SOD activity of jaw cyst. Direct measurement and spin trapping studies by ESR. Kimura H, et al. **Free Radic Res Commun** 1990;9(3–6):279–85
DMPO spin trapping in the presence of Fe ion. Makino K, et al. **Free Radic Res Commun** 1990;9(3–6):233–40
Evidence of in vivo free radical generation by spin trapping with alpha–phenyl N–tert–butyl nitrone during ischemia/reperfusion in rabbit kidneys. Pincemail J, et al. **Free Radic Res Commun** 1990;9(3–6):181–6
Direct observation of spin–trapped carbon dioxide radicals in hepatocytes exposed to carbon tetrachloride. Rau JM, et al. **Free Radic Res Commun** 1990;9(3–6):197–204
Application of spin traps to biological systems. Rosen GM, et al. **Free Radic Res Commun** 1990;9(3–6):187–95 (31 ref.)
EPR spectroscopic studies of detection of a carbon–centered free radical during acetylcholine–induced and endothelium–dependent relaxation of guinea pig pulmonary artery. Sata T, et al. **Free Radic Res Commun** 1990; 9(3–6):213–22
Solvent effects in the spin trapping of lipid oxyl radicals. Schaich KM, et al. **Free Radic Res Commun** 1990; 9(3–6):267–78
Principles of the metabolism of nitroxides and their implications for spin trapping. Swartz HM. **Free Radic Res Commun** 1990;9(3–6):399–405 (18 ref.)
ESR detection of free radical intermediates during autoxidation of 5–hydroxyprimaquine. Vasquez–Vivar J, et al. **Free Radic Res Commun** 1990;9(3–6):383–9
Spin label probes of the environment of cysteine beta–93 in hemoglobin. Manoharan PT, et al. **Hemoglobin** 1990; 14(1):41–67
ESR dosimetry and applications. Proceedings of the 2nd international symposium, 10–13 October 1988, Munich/Neuherberg. **Int J Rad Appl Instrum [A]** 1989; 40(10–12):829–1246
ESR dating of elephant teeth and radiation dose rate estimation in soil. Chong TS, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1199–202
The ESR detection of irradiated food. Dodd NJ, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1211–4
Quality assessment of coffee beans with ESR and gamma–ray irradiation. Ikeya M, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1219–22
Atomic bomb and accident dosimetry with ESR: natural rocks and human tooth in–vivo spectrometer. Ikeya M, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1021–7
ESR analysis of irradiated frogs' legs and fishes. Raffi J, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1215–8
Dose estimation by ESR spectroscopy at a fatal radiation accident. Regulla DF, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1039–43
Human tooth dosimetry for gamma–rays and dental x–rays using ESR. Shimano T, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1035–8
EPR detection of free radicals in (I) coffee and (II) gamma–ray irradiated foodstuffs. Troup GJ, et al. **Int J Rad Appl Instrum [A]** 1989;40(10–12):1223–6
Detection of mitochondrial membrane damages in myocardial ischemia with ESR spin labeling technique. Shin G, et al. **J Mol Cell Cardiol** 1989 Oct;21(10):1029–36
NMR and ESR study of liposome delivery of Mn2+ to murine liver. Bacic G, et al. **Magn Reson Med** 1990 Jan; 13(1):44–61
ESR dating evidence for early modern humans at Border Cave in South Africa. Grün R, et al. **Nature** 1990 Apr 5;344(6266):537–9
[Biodistribution of new polynitroxides using electron paramagnetic resonance] Brik ME, et al. **J Radiol** 1990 Feb;71(2):125–31 (Eng. Abstr.) **(Fre)**
[Organ specific ESR features in mouse main organs and ESR application to the model of pancreatic disorders] Nonaka A, et al. **Nippon Geka Gakkai Zasshi** 1990 Feb;91(2):169–73 (Eng. Abstr.) **(Jpn)**
[Detection of new metabolic paramagnetic centers in the lung tissue by ESR method] Kopylovskiĭ SA, et al. **Biofizika** 1989 Nov–Dec;34(6):1068–9 (Eng. Abstr.) **(Rus)**
[Models for rotating spin labels and probes in proteins and membranes] Antsiferova LI, et al. **Izv Akad Nauk SSSR [Biol]** 1989 Jul–Aug;(4):494–501 (Eng. Abstr.) **(Rus)**
[The diagnosis of intravital mechanical trauma by the blood EPR–spectral parameters] Uzeneva RV. **Sud Med Ekspert** 1989 Oct–Dec;32(4):16–8 (Eng. Abstr.) **(Rus)**
[Use of electron paramagnetic resonance spectroscopy spin labels in studying the properties of biological membranes] Pogády J, et al. **Bratisl Lek Listy** 1989 Nov;90(11):801–13 (Eng. Abstr.) **(Slo)**

INSTRUMENTATION

Time–resolved EPR spectroscopy in a Unix environment. Lacoff NM, et al. **J Chem Inf Comput Sci** 1990 Feb; 30(1):42–8
Electron spin resonance investigation of laser and heated metal–tip–induced free radical formation in various tissues. Jain S, et al. **Lasers Surg Med** 1989;9(6):616–22

METHODS

Real–time continuous–flow spin trapping of hydroxyl free radical in the ischemic and post–ischemic myocardium. Pietri S, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):163–73
Three–dimensional in vivo ESR imaging in rats. Alecci M, et al. **Magn Reson Imaging** 1990;8(1):59–63
In vivo detection of injected free radicals by Overhauser effect imaging. Grucker D. **Magn Reson Med** 1990 Apr; 14(1):140–7
[The ESR spin–trapping method for the detection of free radicals—theory, biological applications and problems] Ueno I, et al. **Nippon Saikingaku Zasshi** 1990 May; 45(3):653–63 **(Jpn)**

ELECTRON TRANSPORT

Abnormalities of the electron transport chain in idiopathic Parkinson's disease. Parker WD Jr, et al. **Ann Neurol** 1989 Dec;26(6):719–23
Mechanisms of long–distance electron transfer in proteins: lessons from photosynthetic reaction centers. Boxer SG. **Annu Rev Biophys Biophys Chem** 1990;19:267–99 (128 ref.)
Electron transfer facilitated by superoxide dismutase: a model for membrane redox systems? Peterson DA, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):164–7
Structure, control and assembly of a bacterial electron transport system as exemplified by Paracoccus denitrificans. Page MD, et al. **Biochem Soc Trans** 1989 Dec;17(6):991–3 (34 ref.)
Nobel lecture. A structural basis of light energy and electron transfer in biology. Huber R. **EMBO J** 1989 Aug; 8(8):2125–47 (165 ref.)
Reduction potentials of imine–substituted, biologically active pyridines: possible relation to activity. Kovacic P, et al. **Free Radic Res Commun** 1990;10(3):185–92
Regulation of macrophage physiology by L–arginine: role of the oxidative L–arginine deiminase pathway. Albina JE, et al. **J Immunol** 1989 Dec 1;143(11):3641–6
[Respiratory chain diseases in infancy. Clinical presentation and diagnosis] García Silva MT, et al. **An Esp Pediatr** 1989 Nov;31(5):421–30 (71 ref.) (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Respiratory inhibitors and uncouplers prevent the aeration–induced increase in mitochondrial anion conductivity. Halle–Smith SC, et al. **Biochem J** 1990 Mar 15;266(3):689–92
Cytotoxic effect of 1–methyl–4–phenylpyridinium ion on human melanoma cell lines, HMV–II and SK–MEL–44, is dependent on the melanin contents and caused by inhibition of mitochondrial electron transport. Umemura T, et al. **Biochem Med Metab Biol** 1990 Aug;44(1):51–8
Effect of butylated hydroxyanisole on electron transport in rat liver mitochondria. Ferreira J. **Biochem Pharmacol** 1990 Aug 15;40(4):677–84
Effect of changing the detergent bound to bovine cytochrome c oxidase upon its individual electron–transfer steps. Mahapatro SN, et al. **Biochemistry** 1990 Jan 23; 29(3):764–70
Farnesylacetone, a sesquiterpenic hormone of Crustacea, inhibits electron transport in isolated rat liver mitochondria. Dupont J, et al. **Biol Cell** 1989;67(2):141–6
Electron transport and protection of liver slices in the late stage of paracetamol injury of the liver. Mourelle M, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:825P
The participation of coenzyme Q in free radical production and antioxidation. Beyer RE. **Free Radic Biol Med** 1990; 8(6):545–65 (192 ref.)

PHYSIOLOGY

Nobel lecture. A structural basis of light energy and electron transfer in biology. Huber R. **Biosci Rep** 1989 Dec; 9(6):635–73 (182 ref.)
Theoretical calculations on calcium channel drugs: is electron transfer involved mechanistically? Kovacic P, et al. **Chem Biol Interact** 1990;75(1):61–70
[Kearns–Sayre syndrome: mitochondrial encephalomyopathy caused by deficiency of the respiratory chain] Desnuelle C, et al. **Rev Neurol (Paris)** 1989;145(12):842–50 (Eng. Abstr.) **(Fre)**
[Luminescence of activated phagocytes] Slavinskiĭ AA. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):53–6 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Reasons for reduced activities of 17 alpha–hydroxylase and C17–C20 lyase in spite of increased contents of cytochrome P–450 in mature rat testis fetally irradiated with 60Co. Inano H, et al. **J Steroid Biochem** 1990 May;35(6):711–4

ELECTRONARCOSIS

see related
ELECTRIC STIMULATION THERAPY

Rapid opioid detoxification with electrosleep and naloxone [letter; comment] Westermeyer J. **Am J Psychiatry** 1990 Jul;147(7):952–3 Comment on: Am J Psychiatry 1989 Oct;146(10):1349.
Electroanesthesia studies: the target area for electroanesthesia. Tatsuno J, et al. **Anesth Analg** 1967 Jul–Aug;46(4):432–9
[Central electroanalgesia as a component in the combined treatment of vomiting in pregnant women] Ivanov IP, et al. **Akush Ginekol (Mosk)** 1989 Dec;(12):67–71 **(Rus)**
[Variation pulsimetry as a method for assessing the adequacy of electro– and drug anesthesia in uranostaphyloplasty] Aznaurian SK, et al. **Anesteziol Reanimatol** 1990 Jan–Feb; (1):24–6 (Eng. Abstr.) **(Rus)**
[The functional dynamics of the brain during transcranial electroanalgesia] Lomarev MP. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):24–33 **(Rus)**

METHODS

[Anesthesiologic procedures based on the use of transcranial electric stimulation of the antinociceptive system in surgery of the lungs] Katsnel'son IaS, et al. **Vestn Khir** 1989 Nov; 143(11):106–7 **(Rus)**
[The use of sinusoidal modulated currents as a method of electrosleep] Danilova IN, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1989 Nov–Dec; (6):9–13 (Eng. Abstr.) **(Rus)**

VETERINARY

Some observations on the narcotizing ability of electric currents on the common carp Cyprinus carpio. Barham WT, et al. **Onderstepoort J Vet Res** 1989 Sep;56(3):215–8

ELECTRONIC DATA PROCESSING see **AUTOMATIC DATA PROCESSING**

ELECTRONIC MAIL see **OFFICE AUTOMATION**

ELECTRONICS

see related
TAPE RECORDING

Piezoelectric stabilimeter for measuring general activity of small laboratory animals. Svorad D, et al. **Act Nerv Super (Praha)** 1990 Mar;32(1):60–1
Brain cancer mortality at a manufacturer of aerospace electromechanical systems. Park RM, et al. **Am J Ind Med** 1990;17(5):537–52
Electronic filter effects on normal motor and sensory nerve conduction tests. Pease WS, et al. **Am J Phys Med Rehabil** 1990 Feb;69(1):28–31
Miniature electrophoresis for speed and productivity. Zeineh MM, et al. **Appl Biochem Biotechnol** 1990 Jan;23(1):81–90
Evidence for adverse reproductive outcomes among women microelectronic assembly workers. Huel G, et al. **Br J Ind Med** 1990 Jun;47(6):400–4
Dermatological hazards in the electronics industry. Koh D, et al. **Contact Dermatitis** 1990 Jan;22(1):1–7 (45 ref.)
Instrument for real–time pulse–shape analysis of slit–scan flow cytometry signals. van Oven C, et al. **Cytometry** 1990; 11(5):630–5
IVAC 2080A intermittent electronic thermometers. **Health Devices** 1988 Aug;17(8):246
An experimental study of acoustoelectric transducers with nonuniform distribution of the piezoelectric coefficient. Chapeau–Blondeau F, et al. **J Acoust Soc Am** 1989 Oct; 86(4):1223–9
A low–cost single–board solution for real–time, unsupervised waveform classification of multineuron recordings. Kreiter AK, et al. **J Neurosci Methods** 1989 Oct;30(1):59–69
A fast, high precision and inexpensive analog to digital board for PC–AT or compatible. Manis PB, et al.

J Neurosci Methods 1989 Oct;30(1):41–54
A new precise microcomputer based rotometer. Pons S, et al. J Neurosci Methods 1990 May;32(2):155–8
An outbreak of infectious conjunctivitis spread by microscopes. Doyle L, et al. J Occup Med 1989 Sep; 31(9):758–62
Hi-falootin–Fi. Gregory RL. Perception 1989;18(4):423–6
The electronic media—a teaching strategy for nursing history. Hoerl–Labrie BM. West J Nurs Res 1990 Feb; 12(1):119–22
[Micromachine in medicine] Imachi K, et al. Nippon Rinsho 1990 Feb;48(2):417–25 (0 ref.) (Jpn)
[Studies of the effect of enviromental factors on the visual system (based on the examination of workers at a precision instrument factory)] Hańczyc P, et al. Med Pr 1989; 40(2):119–25 (Eng. Abstr.) (Pol)
[Stability of the somatic and autonomic nervous systems during occupational activities] Mamedov AM, et al. Kardiologiia 1989 Aug;29(8):32–4 (Eng. Abstr.) (Rus)
[The riboxin treatment of workers in the electron vacuum tube industry suffering from dermatoses] Shulipa IV, et al. Vestn Dermatol Venerol 1990;(3):39–41 (Eng. Abstr.) (Rus)
[Characteristics of the ventilatory status of the lungs in workers in the electronics industry] Popović V, et al. Arh Hig Rada Toksikol 1990 Mar;41(1):35–46 (Eng. Abstr.) (Scr)
[Health risks in the electronic industry are surveyed in the USA] Jannerfeldt E. Lakartidningen 1990 Jan 24;87(4):205 (Swe)

EDUCATION

[Health status of adolescents–students of technical schools in relation to the intensity of studies] Vatchenko LG, et al. Gig Sanit 1990 May;(5):46–50 (Rus)

INSTRUMENTATION

A lighted joystick control for a quadriparetic child with impaired visual awareness. Gragnani JA. Arch Phys Med Rehabil 1990 Aug;71(9):709–10
Micromachines: new tools for artificial organs and surgery [editorial] Nosé Y. Artif Organs 1989 Dec;13(6):493–4
A package design technique for size reduction of implantable bioelectronic systems. Soma M. IEEE Trans Biomed Eng 1990 May;37(5):482–8
[Measurement of radiation energy and its application. II. 2. Electronics for energy measurement] Kumahara T. Radioisotopes 1989 Dec;38(12):537–44 (Jpn)
[Working conditions in the production of electron-tube glass] Dubelkovskaia LS, et al. Gig Tr Prof Zabol 1989;(7):26–8 (Eng. Abstr.) (Rus)

STANDARDS

[Perception of work load among female workers as an indicator of work stress and chronic fatigue] Makowska Z. Med Pr 1989;40(4):257–64 (Eng. Abstr.) (Pol)
[Medico–biological aspects of the effect of modulated high–frequency radiation] Kaliada TV, et al. Gig Sanit 1989 Oct;(10):39–41 (Eng. Abstr.) (Rus)

TRENDS

Microelectronics, radiation, and superconductivity. Gochfeld M. Environ Health Perspect 1990 Jun;86:285–9

ELECTRONICS, MEDICAL

The effect of various hearing protectors on sound localization in the horizontal and vertical planes. Noble W, et al. Am Ind Hyg Assoc J 1990 Jul;51(7):370–7
The future of electronic pacing in laryngeal rehabilitation. Bronistowski M, et al. Am J Otolaryngol 1990 Jan–Feb; 11(1):51–62 (38 ref.)
'Opinions show a lack of clinical experience' [letter; comment] Garry JF. Can Dent Assoc J 1990 Feb;56(2):104 Comment on: J Can Dent Assoc 1989 Sep;55(9):749–50.
Original authors respond to all of the letters [letter] Lund JP, et al. Can Dent Assoc J 1990 Feb;56(2):106–7
'Perhaps we may be allowed to differ' [letter; comment] Mulrooney R, et al. Can Dent Assoc J 1990 Feb;56(2):104–5 Comment on: J Can Dent Assoc 1989 Sep;55(9):749–50.
'Use of electronic devices' [letter] Thomas MR, et al. Can Dent Assoc J 1990 Feb;56(2):105–6
An inexpensive electronic counting system for step tests. McClements J, et al. Can J Sport Sci 1990 Mar;15(1):72–3
Modification of the Bennett MA–1 ventilator for use with intermittent mandatory ventilation [letter] Burstein L. Crit Care Med 1976 Nov–Dec;4(6):334
Micro–electronic monitoring of functional appliance wear. Sahm G, et al. Eur J Orthod 1990 Aug;12(3):297–301
Electron arc therapy: design, implementation and evaluation of a dynamic multi–vane collimator system. Leavitt DD, et al. Int J Radiat Oncol Biol Phys 1989 Nov;17(5):1089–94
Accuracy of determining the point of force application with piezoelectric force plates. Bobbert MF, et al. J Biomech 1990;23(7):705–10
Writer 'misrepresents my data' [letter; comment] Cooper BC. J Can Dent Assoc 1990 Mar;56(3):196–7 Comment on: J Can Dent Assoc 1989 Sep;55(9):749–50.
[Micromachine in medicine] Imachi K, et al. Nippon Rinsho 1990 Feb;48(2):417–25 (0 ref.) (Jpn)
[Using electronic textbooks] Okada Y. Rinsho Byori 1990 Apr;Spec No 84:89–91 (Jpn)

EDUCATION

[Filling out medical certificates (u. f. 086/u)] Khokhlov PP. Sov Zdravookhr 1989;(7):38–40 (Eng. Abstr.) (Rus)

INSTRUMENTATION

The OPTIMIZOR: a graphic pulse analyzer to monitor electro cell fusion and electroporation experiments. Hofmann GA. Biotechniques 1988 Nov–Dec; 6(10):996–1003
The use of electronic devices in the diagnosis and treatment of temporomandibular disorders [see comments] Lund JP, et al. Can Dent Assoc J 1989 Sep;55(9):749–50 Comment in: J Can Dent Assoc 1990 Feb;56(2):104. Comment in: J Can Dent Assoc 1990 Feb;56(2):104–5. Comment in: J Can Dent Assoc 1990 Mar;56(3):196–7.
Differences in body impedance when measured with different instruments [letter] Deurenberg P, et al. Eur J Clin Nutr 1989 Dec;43(12):885–6
A package design technique for size reduction of implantable bioelectronic systems. Soma M. IEEE Trans Biomed Eng 1990 May;37(5):482–8
Application of the Grieshaber air system to maintain endotracheal tube cuff pressure. Vitkun SA, et al. J Clin Anesth 1990 Jan–Feb;2(1):45–7
Extended voltage clamp. Johansen O. Med Biol Eng Comput 1989 May;27(3):335–6
A new device for the detection of sponges and other foreign objects left accidentally in the operative field. Marincola F, et al. Surg Gynecol Obstet 1990 Mar;170(3):259–60

TRENDS

Should there be a formal mechanical–optic–electronic biomedical–engineering program? Goldman L. Lasers Surg Med 1989;9(5):437–9

ELECTRONS

The use of high–energy electrons to depilate the breech of sheep. Sorell GC, et al. Aust Vet J 1990 Feb;67(2):51–5
One–electron reduction of the oxy form of cobalt–substituted hemoproteins. Kobayashi K, et al. Biochim Biophys Acta 1990 Mar 1;1037(3):297–301
A method for the assessment of the output of irregularly shaped electron fields. Jones D, et al. Br J Radiol 1990 Jan;63(745):59–64
The short– and long–term effect of single high–dose intra–operative electron beam irradiation of retroperitoneal structures—an experimental study in dogs. Hoekstra HJ, et al. Eur J Surg Oncol 1990 Jun;16(3):240–7
Auger electron damage induced by radioiodinated iodine–125 monoclonal antibodies. Woo DV, et al. Front Radiat Ther Oncol 1990;24:47–63; discussion 64–8
Bremsstrahlung spectra from 32P electrons incident on Pb and Lucite. Reginatto M, et al. Health Phys 1990 Apr; 58(4):531–2
A comparative study of rejoining of DNA double–strand breaks in yeast irradiated with 3.5 MeV alpha–particles or with 30 MeV electrons. Frankenberg–Schwager M, et al. Int J Radiat Biol 1990 Jun;57(6):1151–68
Development of total–skin electron therapy at two energies. Cox RS, et al. Int J Radiat Oncol Biol Phys 1990 Mar; 18(3):659–69
Verification of electron beam therapy with conventional and storage phosphor images: preliminary experience. Gur D, et al. Int J Radiat Oncol Biol Phys 1989 Dec;17(6):1337–40
Electron arc therapy: design, implementation and evaluation of a dynamic multi–vane collimator system. Leavitt DD, et al. Int J Radiat Oncol Biol Phys 1989 Nov;17(5):1089–94
Considerations on recombination losses in ionization chambers using pulsed electron beams with beam scanning. Müller–Sievers K, et al. Int J Radiat Oncol Biol Phys 1989 Dec;17(6):1323–5
Film dosimetry of clinical electron beams. van Battum LJ, et al. Int J Radiat Oncol Biol Phys 1990 Jan;18(1):69–76
Near–monochromatic X–ray beams produced by the free electron laser and Compton backscatter. Carroll FE, et al. Invest Radiol 1990 May;25(5):465–71
Limitations of conventional internal dosimetry at the cellular level. Makrigiorgos GM, et al. J Nucl Med 1989 Nov; 30(11):1856–64
Effect of electron radiation on aggressive behavior, activity, and hemopoiesis in mice. Maier DM, et al. J Radiat Res (Tokyo) 1989 Sep;30(3):255–65
Through–bond electron–transfer interaction in proteins. da Gama AA. J Theor Biol 1990 Jan 23;142(2):251–60
Testing the usefulness of twin formation theory: the tocopherols and vitamin D. Kunst L, et al. Med Hypotheses 1990 Mar;31(3):165–70
Electron beam characteristics on a Philips SL25. Palta JR, et al. Med Phys 1990 Jan–Feb;17(1):27–34
Comparison of methods to determine electron pencil beam spread in tissue–equivalent media. Sandison GA, et al. Med Phys 1989 Nov–Dec;16(6):881–8
Measurement of dose distributions using film in therapeutic electron beams. Shiu AS, et al. Med Phys 1989 Nov–Dec; 16(6):911–5
An isodose shift technique for obliquely incident electron beams. Ulin K, et al. Med Phys 1989 Nov–Dec;16(6):905–10
Dose perturbations at interfaces in photon beams: secondary electron transport. Werner BL, et al. Med Phys 1990 Mar–Apr;17(2):212–26
The validity of the density scaling method in primary electron transport for photon and electron beams. Woo MK, et al. Med Phys 1990 Mar–Apr;17(2):187–94
Determination of effective bremsstrahlung spectra and electron contamination for photon dose calculations. Ahnesjö A, et al. Phys Med Biol 1989 Oct;34(10):1451–64
Numerical calculation of energy deposition by broad high–energy electron beams. Huizenga H, et al. Phys Med Biol 1989 Oct;34(10):1371–96
Auger electron emitters: insights gained from in vitro experiments. Makrigiorgos G, et al. Radiat Environ Biophys 1990;29(2):75–91 (70 ref.)
An unusual electron trapping site in the crystal structure of dulcitol. Box HC, et al. Radiat Res 1990 May;122(2):137–41
Calculation of the proximity function of electrons. Dayashankar, et al. Radiat Res 1990 Feb;121(2):142–8
Radiation–induced energy migration within solid DNA: the role of misonidazole as an electron trap. al–Kazwini AT, et al. Radiat Res 1990 Feb;121(2):149–53
[Shaping of electron radiation fields using homogeneous absorbent materials] Eichhorn M, et al. Radiobiol Radiother (Berl) 1990;31(2):135–42 (Eng. Abstr.) (Ger)
[An empirical model for calculating electron dose distributions] Leistner H, et al. Radiobiol Radiother (Berl) 1990;31(2):143–50 (Eng. Abstr.) (Ger)
[Radiation planning for electrons] Leitner H. Radiobiol Radiother (Berl) 1990;31(2):179–83 (Eng. Abstr.) (Ger)
[The value of computed tomography in the early detection of pulmonary changes following postoperative electron beam irradiation in breast cancer] Steidle B. Roentgenpraxis 1990 May;43(5):177–81 (Ger)
[Development of special electron applicators for intraoperative radiotherapy at the Grosshadern Clinic] Krimmel K, et al. Strahlenther Onkol 1990 Mar; 166(3):218–23 (Eng. Abstr.) (Ger)
[Leakage radiations in a medical electron accelerator facility—X–rays and capture gamma–rays] Morikawa K, et al. Radioisotopes 1990 Mar;39(3):83–90 (Eng. Abstr.) (Jpn)
[Use of electrons in radiotherapy. 11–year experience of the Cracow Branch of the Center of Oncology] Reinfuss M, et al. Nowotwory 1989 Apr–Jun;39(2):116–20 (Eng. Abstr.) (Pol)
[Use of the linear–square model for evaluation of the distribution of equivalent doses of electron irradiation] Slosarek K. Nowotwory 1989 Apr–Jun;39(2):121–6 (Eng. Abstr.) (Pol)
[One– and two–electron reduction of ubiquinone homologs by NADH– dehydrogenase preparations from the mitochondrial respiratory chain] Sled' VD, et al. Biokhimiia 1989 Sep;54(9):1571–5 (Eng. Abstr.) (Rus)
[The effect of high energy irradiation on the membrane potential and impulse activity of neurons in the brain of Helix pomatia] Luk'anov AN, et al. Radiobiologiia 1989 Sep–Oct;29(5):621–4 (Eng. Abstr.) (Rus)
[The effect of fast electrons and menadione on the structural–functional status of Ehrlich ascites carcinoma cells in the early periods following irradiation] Sellanov AS. Radiobiologiia 1989 Sep–Oct;29(5):595–600 (Eng. Abstr.) (Rus)

DIAGNOSTIC USE

[The radiation load on patients during electron x–ray scanning] Atkochius VB, et al. Med Radiol (Mosk) 1990 Jul;35(7):48–50 (Eng. Abstr.) (Rus)

THERAPEUTIC USE

Current status of electron therapy—clinical and physical aspects. Klevenhagen SC. Br J Radiol Suppl 1988;22:34–51 (109 ref.)
[Hyperfractionation—a new challenge for medical electron linear accelerators?] Jensen JM, et al. Strahlenther Onkol 1990 Jun;166(6):415–9 (Eng. Abstr.) (Ger)
[Cassette–film combinations for the imaging verification of irradiation with 60Co photons up to 42 MV and electrons of 5 to 40 MeV] Kirschner H, et al. Strahlenther Onkol 1990 Apr;166(4):285–91 (Ger)
[Total electron irradiation in T–cell lymphoma of the skin with a high degree of malignancy] Potekaev NS, et al. Ter Arkh 1989;61(7):132–3 (Rus)

ELECTRONYSTAGMOGRAPHY

Electronystagmographic findings and recovery of cochlear and vestibular function in patients suffering from sudden deafness with a special reference to the effect of anticoagulation. Laurikainen E, et al. Audiology 1989; 28(5):262–7
Electronystagmographic findings among 127 dizzy patients: correlation with the aetiology of dizziness. Ojala M, et al. Clin Otolaryngol 1989 Aug;14(4):343–8
The caloric test in electronystagmography [published erratum appears in Entechnology 1989 Nov;68(11):886] Wexler DB. Entechnology 1989 Sep;:6, 8, 10–1, passim (54 ref.)

[ENG findings in 47 acoustic neurinomas] Mrázek J. **Cesk Otolaryngol** 1989 Sep;38(5):297–301 (Eng. Abstr.) (Cze)

[Microcomputers and ENG: current status] Boniver R. **Acta Otorhinolaryngol Belg** 1989;43(6):603–7 (Fre)

[Artificial divergence surgery in congenital nystagmus] Sendler S, et al. **Fortschr Ophthalmol** 1990;87(1):85–9 (Eng. Abstr.) (Ger)

[The effect of low-frequency whole-body vibration on the vestibular apparatus] Suvorov GA, et al. **Z Gesamte Hyg** 1989;35(8):496–8 (Eng. Abstr.) (Ger)

[Electronystagmographic evaluation of changes in vestibular reactions after administration of diverse substances into cerebral ventricles] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1989 Sep–Oct;(5):25–30 (Eng. Abstr.) (Rus)

[Auditory brain-stem response and electronystagmographic findings in vestibular neuronitis. Neuronitis or neuritis?] Bartual J, et al. **Acta Otorrinolaringol Esp** 1989 Mar–Apr; 40(2):121–9 (Eng. Abstr.) (Spa)

INSTRUMENTATION

An analysis of ocular counter-rolling measured with search coils. Takemori S, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:271–6

Electronystagmography recording system. Benitez JT. **Arch Otolaryngol** 1967 Nov;86(5):588–9

Electronystagmography 1990. Brookler KH. **Neurol Clin** 1990 May;8(2):235–59 (5 ref.)

[Electronystagmographic objective perimetry] Makabe R. **Fortschr Ophthalmol** 1990;87(3):294–6 (Eng. Abstr.) (Ger)

METHODS

Competencies in auditory evoked potential measurement and clinical applications. Working Group on Auditory Evoked Potential Measurements of the Committee on Audiologic Evaluation. American Speech-Language-Hearing Association. **ASHA** 1990 Apr;32(4 Suppl 2):13–6

Diagnostic value of vertical nystagmus recorded from ENG. Allard B, et al. **Ear Hear** 1990 Feb;11(1):62–5

Computer analysis of ENG spectral features from patients with congenital nystagmus. Reccia R, et al. **J Biomed Eng** 1990 Jan;12(1):39–45

[Amplitude summation and the pendulum test as elements of the otoneurologic examination] Erlach A. **HNO** 1989 Oct;37(10):406–14 (Eng. Abstr.) (Ger)

[Use of computer analysis of ENG signals in the study of optokinetic nystagmus] Bień S, et al. **Otolaryngol Pol** 1989; 42(6):428–33 (Eng. Abstr.) (Pol)

ELECTROOCULOGRAPHY

Horizontal optokinetic reflex in the opossum Didelphis marsupialis aurita. Nasi JP, et al. **Braz J Med Biol Res** 1989;22(6):773–4

Dark adaptation compared with electrooculography in primary biliary cirrhosis. Barber C, et al. **Doc Ophthalmol** 1989 Apr;71(4):397–402

Electrophysiologic testing techniques for children. Fulton AB, et al. **Doc Ophthalmol** 1989 Apr;71(4):341–54 (57 ref.)

Electroretinography and electro-oculography to localize abnormalities in early-stage inflammatory eye disease. Ikeda H, et al. **Doc Ophthalmol** 1989 Dec;73(4):387–94

The peak latency of the slow oscillation in EOG. Lessel MR, et al. **Doc Ophthalmol** 1989 Apr;71(4):409–12

The slow electrooculogram oscillation in malignant choroidal melanoma. Thaler A, et al. **Doc Ophthalmol** 1989 Apr; 71(4):403–7

The electro-oculogram as an aid in the diagnosis of uveal melanoma. Brink H, et al. **Int Ophthalmol** 1989 Sep; 13(5):305–9

Abnormalities of horizontal gaze. Clinical, oculographic and magnetic resonance imaging findings. I. Abducens palsy. Bronstein AM, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):194–9

Abnormalities of horizontal gaze. Clinical, oculographic and magnetic resonance imaging findings. II. Gaze palsy and internuclear ophthalmoplegia. Bronstein AM, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):200–7

Effect on EEG responses of removing ocular artefacts by proportional EOG subtraction. Jervis BW, et al. **Med Biol Eng Comput** 1989 Sep;27(5):484–90

[Vergence movements—electro-oculographic study] Lavenant F. **Bull Soc Ophtalmol Fr** 1989 Jan;89(1):53–60 (0 ref.) (Fre)

[Electrooculography and study of contrast sensitivity in the diagnosis of eye diseases] Saraux H. **Bull Soc Ophtalmol Fr** 1989 Aug–Sep;89(8–9):1095–7 (Eng. Abstr.) (Fre)

[Decreased reading speed and rapid fatigue as signs of disordered visual function] Stangler-Zuschrott E. **Klin Monatsbl Augenheilkd** 1990 Mar;196(3):150–7 (Eng. Abstr.) (Ger)

DRUG EFFECTS

Electrooculographic study in the chicken after treatment with neurotoxin 6-hydroxydopamine. Rudolf G, et al. **Doc Ophthalmol** 1989 May;72(1):83–91

INSTRUMENTATION

[Registering eye movements using digital image processing] Clarke AH, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:22–3 (Ger)

[Recording and analysis of the electrooculography using a personal computer. Initial experiences with normal probands and patients with diseases of the posterior eye segment and intraocular foreign bodies] Walter PM, et al. **Klin Monatsbl Augenheilkd** 1989 Oct;195(4):261–7 (Eng. Abstr.) (Ger)

METHODS

Development of a non-linear smoothing filter for the processing of eye-movement signals. Engelken EJ, et al. **Biomed Sci Instrum** 1990;26:5–10

The electrooculogram: a refinement of the method. Riemslag FC, et al. **Doc Ophthalmol** 1989 Dec;73(4):369–75

Obtaining a quantitative measure of eye movements in human infants: a method of calibrating the electrooculogram. Finocchio DV, et al. **Vision Res** 1990;30(8):1119–28

ELECTROPHORESIS

see related
BLOOD PROTEIN ELECTROPHORESIS
IMMUNOELECTROPHORESIS

Two staining methods for selectively detecting isomaltase and maltase activity in electrophoresis gels. Finlayson SD, et al. **Anal Biochem** 1990 May 1;186(2):233–5

Orientation effects on the electrophoretic mobility of rod-shaped molecules in free solution. Grossman PD, et al. **Anal Chem** 1990 Aug 1;62(15):1592–6

Effect of ultrasound on the separation of DNA fragments in agarose gel electrophoresis. Ma YF, et al. **Anal Chem** 1990 Jun 1;62(11):1194–6

Miniature electrophoresis for speed and productivity. Zeineh MM, et al. **Appl Biochem Biotechnol** 1990 Jan;23(1):81–90

Facilitated electrofusion of vacuolated x evacuolated oat mesophyll protoplasts in hypo-osmolar media after alignment with an alternating field of modulated strength. Klöck G, et al. **Biochim Biophys Acta** 1990 Jun 11; 1025(1):87–93

Avoiding woody plant DNA sample loss when loading submarine agarose gels for electrophoresis. Culpepper JH, et al. **Biotechniques** 1990 Feb;8(2):171–2

Electrophoretic examination of proteinuria in Lowe's syndrome and other causes of renal tubular Fanconi syndrome. Papadopoulos NM, et al. **Clin Chem** 1989 Nov; 35(11):2231–3

Ultraviolet-absorbing organic anions in uremic serum separated by capillary zone electrophoresis, and quantification of hippuric acid. Schoots AC, et al. **Clin Chem** 1990 Mar;36(3):435–40

Quantitative analysis of one-dimensional gel electrophoresis profiles. Smith JM, et al. **Comput Appl Biosci** 1990 Apr; 6(2):93–9

Quantitative evaluation and densitometry. **Electrophoresis** 1990 May;11(5):353–448

High performance capillary electrophoresis of calmodulin. Chan KF, et al. **Electrophoresis** 1990 Jan;11(1):15–8

Simultaneous phenotyping of erythrocyte acid phosphatase and esterase D by nonequilibrium agarose isoelectric focusing. Dimo-Simonin N, et al. **Electrophoresis** 1989 Oct; 10(10):718–21

Electrophoretic separation of nucleic acids: evaluation by video and photographic densitometry. Freeman SE, et al. **Electrophoresis** 1990 May;11(5):425–31

Free flow electrophoresis for the purification of proteins: I. Zone electrophoresis and isotachophoresis. Hoffstetter-Kuhn S, et al. **Electrophoresis** 1990 Apr; 11(4):304–9

The electric field dependence of DNA mobilities in agarose gels: a reinvestigation. Holmes DL, et al. **Electrophoresis** 1990 Jan;11(1):5–15

Affinity electrophoresis for studies of mechanisms regulating glycosylation of plasma proteins. Mackiewicz A, et al. **Electrophoresis** 1989 Dec;10(12):830–5

Thin-layer electrophoretic separation of monosaccharides, oligosaccharides and related compounds on reverse phase silica gel. Scherz H. **Electrophoresis** 1990 Jan;11(1):18–22

Experimental and theoretical description of the isotachophoretic behavior of serum albumin. Thormann W, et al. **Electrophoresis** 1990 Apr;11(4):292–8

Assessment of electrophoretic mobility changes of human erythrocytes by free flow electrophoresis after in vitro and in vivo irradiation. Schreiber GA, et al. **Int J Rad Appl Instrum [B]** 1990;17(4):377–80

Phenomenological theory of gel electrophoresis of protein-nucleic acid complexes. Cann JR. **J Biol Chem** 1989 Oct 15;264(29):17032–40

Alterations in electrophoretic mobility, diaphorase activity, and terminal differentiation induced in murine erythroleukemia lines by differentiating agents. Gascoyne PR, et al. **J Cell Physiol** 1990 Feb;142(2):309–15

Progress in affinophoresis. Shimura K. **J Chromatogr** 1990 Jun 27;510:251–70 (52 ref.)

Understanding gel electrophoresis [news] Maddox J. **Nature** 1990 May 31;345(6274):381

[The practice of electrophoresis of lacrimal proteins in routine ophthalmology] Lalangue JC, et al. **Ophtalmologie** 1989 Jun–Aug;3(3):211–3 (Eng. Abstr.) (Fre)

[Free flow electrophoresis. Application to the separation of 2 populations of proximal tubule cells from the rabbit kidney] Toutain H, et al. **Pathol Biol (Paris)** 1989 Oct; 37(8):869–74 (Eng. Abstr.) (Fre)

[Biochemical study of HLA typing (IEF 1-D gel, IEF/SDS-PAGE 2-D gel)] Nakatsuji T. **Nippon Rinsho** 1990 Feb;48 Suppl:770–3 (Jpn)

[Separation of alpha-amylase isoenzymes using cellulose acetate electrophoresis] Tvorogova MG, et al. **Lab Delo** 1989;(12):61–4 (Eng. Abstr.) (Rus)

[The electrophoretic mobility of peripheral blood lymphocytes in patients with tuberculosis of the lungs] Skvortsova RG, et al. **Probl Tuberk** 1990;(5):11–4 (Eng. Abstr.) (Rus)

HISTORY

History of electrophoretic methods. Vesterberg O. **J Chromatogr** 1989 Oct 20;480:3–19

INSTRUMENTATION

Concentration of dilute solutions of macromolecules by electrophoresis. Atmeh RF. **Anal Biochem** 1989 Nov 1; 182(2):315–8

Control of pulsed field gel electrophoresis at short switching intervals by a microcomputer. Hennekes H, et al. **Anal Biochem** 1989 Nov 15;183(1):80–3

A simple, inexpensive gel stripper. Curtis FP, et al. **Biotechniques** 1990 Jan;8(1):40, 42

A procedure for electro-elution of DNA from agarose gels. He M, et al. **Biotechniques** 1988 Sep;6(8):728, 730

Multi-sample electroporation. Speyer JF. **Biotechniques** 1990 May;8(5):508

Transverse alternating field electrophoresis (TAFE). Stewart G, et al. **Biotechniques** 1988 Jan;6(1):68–73

Simple construction of rubber-based agarose block molds for pulsed-field electrophoresis. Van Devanter DR, et al. **Biotechniques** 1989 Feb;7(2):143–4

Isotachophoretic zone formation of serum albumin in different free fluid electrophoresis instruments. Thormann W, et al. **Electrophoresis** 1990 Apr;11(4):298–304

Capillary zone electrophoresis in pharmaceutical analysis. Fanali S, et al. **Farmaco** 1990 Jun;45(6 Suppl):693–702 (16 ref.)

An improved applicator system for cellulose acetate electrophoresis. Foley DH. **J Am Mosq Control Assoc** 1990 Mar;6(1):141–3

Simple apparatus for capillary zone electrophoresis and its application to protein analysis. Rohlíček V, et al. **J Chromatogr** 1989 Sep 29;494:87–99

Peculiar features of application of pH gradients formed in borate buffer with a polyhydroxy compound for separation of proteins in a free-flow electrophoretic apparatus. Shukun SA, et al. **J Chromatogr** 1989 Nov 10;496(1):121–8

[The purification of beta-galactosidase by flow electrophoresis] Andrienko VI, et al. **Mikrobiol Zh** 1990 Mar–Apr;52(2):94–7 (Eng. Abstr.) (Rus)

METHODS

A new staining and evaluating procedure for protein gel electropherograms based on the pyrogallol red-molybdate complex. Csiba A, et al. **Acta Vet Hung** 1989;37(3):191–6

Identification of covalently bound fatty acids on acylated proteins immobilized on nitrocellulose paper. Callahan FE, et al. **Anal Biochem** 1989 Dec;183(2):220–4

On the theory of gel electrophoresis of DNA: extension and evaluation of the Lumpkin-DeJardin-Zimm model. Diwan AR, et al. **Anal Biochem** 1989 Nov 15;183(1):122–33

Proteoglycan profiles obtained by electrophoresis and triple immunoblotting. Heimer R. **Anal Biochem** 1989 Aug 1; 180(2):211–5

Direct determination of macromolecular charge by equilibrium electrophoresis. Laue TM, et al. **Anal Biochem** 1989 Nov 1;182(2):377–82

Characterization of protein behavior in high-performance capillary electrophoresis using a novel capillary system. Swedberg SA. **Anal Biochem** 1990 Feb 15;185(1):51–6

The biased reptation model of DNA gel electrophoresis: mobility vs molecular size and gel concentration. Slater GW, et al. **Biopolymers** 1989 Oct;28(10):1781–91

DNA gel electrophoresis: effect of field intensity and agarose concentration on band inversion. Slater GW, et al. **Biopolymers** 1989 Oct;28(10):1793–9

A simple sequencing gel-saving tip. Black ME, et al. **Biotechniques** 1989 Nov–Dec;7(10):1083

Capillary electrophoresis. Compton SW, et al. **Biotechniques** 1988 May;6(5):432–40

Semi-dry electroblotting of DNA. Fleming JE, et al. **Biotechniques** 1988 Nov–Dec;6(10):926, 928–9

An inexpensive method of drying multiple agarose gels. Jones CL, et al. **Biotechniques** 1988 Feb;6(2):118, 122

Pulsed field gel electrophoresis. Lai E, et al. **Biotechniques** 1989 Jan;7(1):34–42 (42 ref.)

Preparing chromosomes from protoplasts of a filamentous fungus for pulsed-field gel electrophoresis. Miao V, et al. **Biotechniques** 1990 Apr;8(4):393

Electrolyte gradient gels for DNA sequencing. Sheen JY, et al. **Biotechniques** 1988 Nov–Dec;6(10):942–4

A rapid and cost-effective method for preparing genomic DNA from gram-negative bacteria in agarose plugs for pulsed-field gel electrophoresis. Sobral BW, et al. **Biotechniques** 1989 Oct;7(9):938

In situ removal of RNA during agarose gel electrophoresis. Wagner PM, et al. **Biotechniques** 1989 Apr;7(4):338, 340
Analysis and purification of synthetic DNA fragments with NuSieve agarose mini-gels. Zupancic TJ, et al. **Biotechniques** 1988 Apr;6(4):296, 298
Electrophoresis of proteins and nucleic acids: I—Theory. Hayes JD, et al. **BMJ** 1989 Sep 30;299(6703):843–6 (16 ref.)
Electrophoresis of proteins and nucleic acids: II—Techniques and applications. Hayes JD, et al. **BMJ** 1989 Oct 7; 299(6704):907–10 (16 ref.)
Separation of hepatoma-associated gamma-glutamyltransferase isoenzyme on cellulose acetate media with Triton X-100 and concanavalin A. Yoshikawa C, et al. **Clin Chim Acta** 1989 Dec 15;185(3):317–23
ELBAMAP: software for management of electrophoresis banding patterns. King GJ. **Comput Appl Biosci** 1989 Oct; 5(4):313–7
Identification of product-substrate pattern for erythrocyte membranes self-digestion using the original two-dimensional electrophoretic technique. Gaczyńska M. **Cytobios** 1989;60(240):27–31
IPGMAKER: a program for IBM-compatible personal computers to create and test recipes for immobilized pH gradients. Altland K. **Electrophoresis** 1990 Feb;11(2):140–7
Determination of the electrophoretic mobility of chromosomes by free flow electrophoresis. I. Morphology and stability. Bier FF, et al. **Electrophoresis** 1989 Oct; 10(10):690–7
Affinity electrophoresis for diagnosis of cancer and inflammatory conditions. Bręborowicz J, et al. **Electrophoresis** 1989 Aug–Sep;10(8–9):568–73
Separation of some triazine herbicides and their solvolytic products by capillary zone electrophoresis. Foret F, et al. **Electrophoresis** 1990 Jan;11(1):95–7
Formulations for immobilized pH gradients including pH extremes. Gianazza E, et al. **Electrophoresis** 1989 Nov; 10(11):806–8
Cystic fibrosis proteins detected by electrophoretic techniques. Guy-Crotte O, et al. **Electrophoresis** 1989 Aug–Sep;10(8–9):628–32
Scale-up of free flow electrophoresis: I. Purification of alcohol dehydrogenase from a crude yeast extract by zone electrophoresis. Hoffstetter-Kuhn S, et al. **Electrophoresis** 1990 Jun;11(6):451–6
Scale-up of free-flow electrophoresis: II. Purification of alcohol dehydrogenase from a crude yeast extract by field step electrophoresis and combined field step-zone electrophoresis. Hoffstetter-Kuhn S, et al. **Electrophoresis** 1990 Jun;11(6):457–62
Isotachophoretic determination of herbicides prometryne, desmetryne, terbutryne and hydroxy-derivatives of atrazine and simazine in extracts of milk. Křivánkova L, et al. **Electrophoresis** 1989 Oct;10(10):731–4
Determination of 4-methylimidazole in caramel color by capillary isotachophoresis. Kvasnička F. **Electrophoresis** 1989 Nov;10(11):801–2
Electrophoresis and densitometry of serum and urine in the investigation and significance of monoclonal immunoglobulins. MacNamara EM, et al. **Electrophoresis** 1990 May;11(5):376–81
Characterization of bacterial genospecies by computer-assisted statistical analysis of enzyme electrophoretic data. Picard B, et al. **Electrophoresis** 1989 Oct;10(10):680–5
Enzyme activity electrophoresis: development and applications. Poulsen OM, et al. **Electrophoresis** 1989 Dec; 10(12):857–64
Lectin affinity electrophoresis of alkaline phosphatase for the differentiation of bone and hepatobiliary disease. Rosalki SB, et al. **Electrophoresis** 1989 Aug–Sep;10(8–9):604–11
Step change of counterion—a new option in capillary zone electrophoresis. Sudor J, et al. **Electrophoresis** 1989 Nov; 10(11):802–5
Lectin affinity electrophoresis of alpha-fetoprotein in cancer diagnosis. Taketa K, et al. **Electrophoresis** 1989 Aug–Sep; 10(8–9):562–7
In CHEF electrophoresis a linear induction of dsb corresponds to a nonlinear fraction of extracted DNA with dose. Blöcher D. **Int J Radiat Biol** 1990 Jan;57(1):7–12
Of matrices and men. Righetti PG. **J Biochem Biophys Methods** 1989 Jul;19(1):1–20 (79 ref.)
HydroLink gel electrophoresis (HLGE). I. Matrix characterization. Righetti PG, et al. **J Biochem Biophys Methods** 1989 Jul;19(1):37–49
HydroLink gel electrophoresis (HLGE). II. Applications of a new polymer matrix to dsDNA analysis. Smith CL, et al. **J Biochem Biophys Methods** 1989 Jul;19(1):51–64
HydroLink gel electrophoresis (HLGE). III. High DNA loading capacity and recovery of dsDNA [published erratum appears in J Biochem Biophys Methods 1990 Mar;20(3):271] Smith CL, et al. **J Biochem Biophys Methods** 1989 Jul;19(1):65–73
Electrophoresis of DNA in oriented agarose gels. Holmes DL, et al. **J Biomol Struct Dyn** 1989 Oct;7(2):311–27
Pulsed field gel electrophoresis and investigations into mammalian genome organization. Gardiner K. **J Cell Sci** 1990 May;96 (Pt 1):5–8 (25 ref.)
First International Symposium on High-Performance Capillary Electrophoresis. Boston, MA, April 10–12, 1989. **J Chromatogr** 1989 Oct 20;480:1–431
Performance of carbohydrate-modified fused-silica capillaries for the separation of proteins by zone electrophoresis. Bruin GJ, et al. **J Chromatogr** 1989 Oct 20;480:339–49
Capillary electrophoresis of proteins in buffers containing high concentrations of zwitterionic salts. Bushey MM, et al. **J Chromatogr** 1989 Oct 20;480:301–10
Coupling capillary zone electrophoresis and continuous-flow fast atom bombardment mass spectrometry for the analysis of peptide mixtures. Caprioli RM, et al. **J Chromatogr** 1989 Oct 20;480:247–57
Separation of collagens by capillary zone electrophoresis. Deyl Z, et al. **J Chromatogr** 1989 Oct 20;480:371–8
Capillary zone electrophoresis of oligonucleotides. Factors affecting separation. Dolnik V, et al. **J Chromatogr** 1989 Oct 20;480:321–30
Characterization of human growth hormone by capillary electrophoresis. Frenz J, et al. **J Chromatogr** 1989 Oct 20; 480:379–91
Preliminary investigation of ion mobility spectrometry after capillary electrophoretic introduction. Hallen RW, et al. **J Chromatogr** 1989 Oct 20;480:233–45
Utilization of capillary isotachophoresis in the determination of organic acids in food. Karovičová J, et al. **J Chromatogr** 1990 Jun 15;509(1):283–6
Separation of the human transferrin isoforms by carrier-free high-performance zone electrophoresis and isoelectric focusing. Kilàr F, et al. **J Chromatogr** 1989 Oct 20; 480:351–7
Coupling of capillary zone electrophoresis and capillary liquid chromatography with coaxial continuous-flow fast atom bombardment tandem sector mass spectrometry. Moseley MA, et al. **J Chromatogr** 1989 Oct 20;480:197–209
Characterization of a post-column reaction-laser-induced fluorescence detector for capillary zone electrophoresis. Nickerson B, et al. **J Chromatogr** 1989 Oct 20;480:157–68
Capillary zone electrophoresis of peptide fragments from trypsin digestion of biosynthetic human growth hormone. Nielsen RG, et al. **J Chromatogr** 1989 Oct 20;480:393–401
Capillary electrophoresis with indirect amperometric detection. Olefirowicz TM, et al. **J Chromatogr** 1990 Jan 19;499:713–9
Analysis of oligonucleotides by capillary gel electrophoresis. Paulus A, et al. **J Chromatogr** 1990 May 16;507:113–23
Capillary zone electrophoresis and isotachophoresis–mass spectrometry of polypeptides and proteins based upon an electrospray ionization interface. Smith RD, et al. **J Chromatogr** 1989 Oct 20;480:211–32
Comparison of high-performance liquid chromatography, supercritical fluid chromatography and capillary zone electrophoresis in drug analysis. Steuer W, et al. **J Chromatogr** 1990 May 16;507:125–40
Gel permeation chromatography combined with capillary electrophoresis for microanalysis of proteins. Yamamoto H, et al. **J Chromatogr** 1989 Oct 20;480:277–83
Improved method for enzymic determination of cholesterol in lipoproteins separated by electrophoresis on thin layer agarose gels. Aufenanger J, et al. **J Clin Chem Clin Biochem** 1989 Oct;27(10):807–13
The technique of pulsed field gel electrophoresis and its impact on molecular immunology. O'Reilly MA, et al. **J Immunol Methods** 1990 Jul 20;131(1):1–13 (80 ref.)
A simple method for protein electrophoresis of unconcentrated urine. Vattanaviboon P, et al. **J Med Assoc Thai** 1990 Apr;73(4):202–5
Estimation of free dopamine in the cytoplasm of the giant dopamine cell of Planorbis corneus by voltammetry and capillary electrophoresis. Chien JB, et al. **J Neurochem** 1990 Feb;54(2):633–8
Detection of varicella-zoster virus DNA by field-inversion gel electrophoresis. Arao Y, et al. **Microbiol Immunol** 1990; 34(3):269–82
The basis of high resolution separation of small DNAs by asymmetric-voltage field inversion electrophoresis and its application to DNA sequencing gels. Birren BW, et al. **Nucleic Acids Res** 1990 Mar 25;18(6):1481–7
Field inversion gel electrophoresis applied to the rapid, multi-enzyme restriction mapping of phage lambda clones. Daniels DL, et al. **Nucleic Acids Res** 1990 Mar 11; 18(5):1312
Pulsed field gel electrophoresis using a double-decker gel system. Nagy A, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5317–8
Molecular detrapping and band narrowing with high frequency modulation of pulsed field electrophoresis. Turmel C, et al. **Nucleic Acids Res** 1990 Feb 11; 18(3):569–75
Asymmetric field inversion gel electrophoresis: a new method for detecting DNA double-strand breaks in mammalian cells. Stamato TD, et al. **Radiat Res** 1990 Feb; 121(2):196–205
Recovery of agarose for electrophoresis of DNA fragments. Ceccarelli EA, et al. **Trends Genet** 1990 Mar;6(3):72
Evaluation of serum iso-amylase in the normal dog using an improved electrophoretic technique. Simpson JW, et al. **Vet Res Commun** 1989;13(6):441–50
[Studies on method for electrophoresis of creatine kinase (CK) MB sub-bands and its clinical application] Takahashi S, et al. **Rinsho Byori** 1989 Oct;37(10):1134–8 (Eng. Abstr.) (Jpn)
[A magnetophoretic method of diagnosis of glucoesphosphate dehydrogenase deficiency in the erythrocytes] Chikov VM, et al. **Genetol Transfuziol** 1990 Feb;35(2):36–7 (Rus)
[A comparative assessment of using electrophoresis in a density gradient, isotachophoresis and electrophoresis in a pH gradient for separation of microbial cells] Fedorkina OA, et al. **Mikrobiol Zh** 1986 Nov–Dec;48(6):83–6 (Eng. Abstr.) (Rus)
[The status and outlook of electrophoretic research on keratins in determining the similarity of human hair] Khristov SI. **Sud Med Ekspert** 1989 Oct–Dec;32(4):53–6 (37 ref.) (Rus)
[A comparison of methods for the determination of A2 hemoglobin] Mora LA, et al. **Bol Med Hosp Infant Mex** 1990 Mar;47(3):168–72 (Eng. Abstr.) (Spa)

ELECTROPHORESIS, AGAR GEL see under **ELECTROPHORESIS**

ELECTROPHORESIS, CELLULOSE ACETATE see under **ELECTROPHORESIS**

ELECTROPHORESIS, DISC see under **ELECTROPHORESIS, POLYACRYLAMIDE GEL**

ELECTROPHORESIS, GEL, TWO-DIMENSIONAL

Comprehensive computerized 2D gel protein databases offer a global approach to the study of the mammalian cell. Celis JE, et al. **Biocssays** 1990 Feb;12(2):93–7 (33 ref.)
Automatic learning strategies and their application to electrophoresis analysis. Roch C, et al. **Comput Med Imaging Graph** 1989 Sep–Oct;13(5):383–91
Application of two-dimensional gel electrophoresis in the study of cytoskeletal protein regulation during growth activation and differentiation. Ben-Ze'ev A. **Electrophoresis** 1990 Mar;11(3):191–200 (62 ref.)
Synergistic induction of polypeptides by tumor necrosis factor and interferon-gamma in cells sensitive or resistant to tumor necrosis factor: assessment by computer based analysis of two-dimensional gels using the PDQUEST system. Beresini MH, et al. **Electrophoresis** 1990 Mar; 11(3):232–41
A two-dimensional gel protein database of noncultured total normal human epidermal keratinocytes: identification of proteins strongly up-regulated in psoriatic epidermis. Celis JE, et al. **Electrophoresis** 1990 Mar;11(3):242–54
Protein synthesis initiation factor modifications during viral infections: implications for translational control. Duncan RF. **Electrophoresis** 1990 Mar;11(3):219–27 (67 ref.)
The analysis of glycoproteins in cells and tissues by two-dimensional polyacrylamide gel electrophoresis. Koch GL, et al. **Electrophoresis** 1990 Mar;11(3):213–9 (25 ref.)
Two-dimensional electrophoresis of heart muscle proteins in human cardiomyopathies. Kovalyov LI, et al. **Electrophoresis** 1990 Apr;11(4):333–6
Diagnostic use of an analysis of urinary proteins by a practicable sodium dodecyl sulfate-electrophoresis method and rapid two-dimensional electrophoresis. Lapin A, et al. **Electrophoresis** 1989 Aug–Sep;10(8–9):589–95
Use of two-dimensional gel electrophoresis and autoradiography as a tool in cell biology: the example of the thyroid and the liver. Lecocq R, et al. **Electrophoresis** 1990 Mar;11(3):200–12 (36 ref.)
Horizontal two-dimensional electrophoresis of cerebrospinal fluid proteins with immobilized pH gradients in the first dimension. Mattila K, et al. **Electrophoresis** 1990 Jan; 11(1):91–2
Analysis of plasma membrane protein changes in Dictyostelium discoideum during concanavalin A induced receptor redistribution using two-dimensional gel electrophoresis. Patton WF, et al. **Electrophoresis** 1990 Jan; 11(1):79–85
Degradation of individual intracellular proteins analyzed by two-dimensional gel electrophoresis and computerized video densitometry. Rodemann HP. **Electrophoresis** 1990 Mar;11(3):228–31
Two-dimensional polyacrylamide gel electrophoresis of extracellular soybean pathogenesis-related proteins using PhastSystem. Roggero P, et al. **Electrophoresis** 1990 Jan; 11(1):86–90
Abnormal protein spots revealed by two-dimensional electrophoresis in mycoplasma-infected human fibroblasts. Yang RC, et al. **Electrophoresis** 1990 Apr;11(4):344–6
Two dimensional gel human protein databases offer a systematic approach to the study of cell proliferation and differentiation. Celis JE, et al. **Int J Dev Biol** 1989 Dec; 33(4):407–16 (33 ref.)
Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis. Isoda N, et al. **J Chromatogr** 1990 May 18;527(2):315–25
Two-dimensional gels and amino acid hydrolysis data [letter] Farrar WL, et al. **J Immunol** 1989 Dec 1;143(11):3862–3
Ambiguities in results obtained with 2D gel replicon mapping techniques. Linskens MH, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):647–52
Cultured skin fibroblasts in schizophrenia: quantitative two-dimensional electrophoresis. Cohen MR, et al. **Psychiatry Res** 1990 May;32(2):135–9

INSTRUMENTATION

Computer-assisted evaluation of polydisperse

two-dimensional gel patterns of polysaccharide-protein conjugate preparations with regard to size and net charge. Tietz D, et al. **Electrophoresis** 1989 Oct;10(10):667-80

METHODS

An electrophoretic method for the purification of RNA regions involved in protein crosslinking. Hajnsdorf E, et al. **Anal Biochem** 1990 Feb 15;185(1):103-7

Two-dimensional electrophoretic analysis of human hair keratins, especially hair matrix proteins. Katsuumi K, et al. **Arch Dermatol Res** 1989;281(7):495-501

Profile matching and profile subtraction: application of computer-based image analysis system for two-dimensional electrophoresis gels. Lee C, et al. **Biotechniques** 1989 Apr; 7(4):374-8

Development of a dedicated two-dimensional gel electrophoresis system that provides optimal pattern reproducibility and polypeptide resolution. Patton WF, et al. **Biotechniques** 1990 May;8(5):518-27

Computerized quantitative analysis of coomassie-blue-stained serum proteins separated by two-dimensional electrophoresis. Burgess-Cassler A, et al. **Clin Chem** 1989 Dec;35(12):2297-304

Affinity electrophoresis: paper symposium. **Electrophoresis** 1989 Dec;10(12):811-69

Analysis of virus protein heterogeneity among group B coxsackie viruses using a "mini" two-dimensional gel electrophoresis system. Cash P. **Electrophoresis** 1989 Nov; 10(11):793-800

Two-dimensional electrophoresis of plasma proteins and high density lipoproteins during inflammation. Choukaife A, et al. **Electrophoresis** 1989 Nov;10(11):781-4

A high resolution two-dimensional gel electrophoresis and silver staining protocol demonstrated with nuclear matrix proteins. Cupo JF, et al. **Electrophoresis** 1990 Jun; 11(6):500-4

Image analysis techniques for automatic evaluation of two-dimensional electrophoresis. Häder DP, et al. **Electrophoresis** 1990 May;11(5):407-15

GELANAL, a personal computer-program to compare protein patterns on two-dimensional polyacrylamide gels. Klerk H, et al. **Electrophoresis** 1990 May;11(5):420-4

Consecutive radiofluorography and silver staining of two-dimensional gel electrophoretograms: application in determining the biosynthesis of serum and tissue proteins. Kuhn L, et al. **Electrophoresis** 1989 Oct;10(10):708-13

Two-dimensional electrophoresis of dog bronchoalveolar lavage fluid proteins. Lenz AG, et al. **Electrophoresis** 1990 Jun;11(6):510-3

Giant two-dimensional gel electrophoresis: methodological update and comparison with intermediate-format gel systems. Levenson RM, et al. **Electrophoresis** 1990 Mar; 11(3):269-79

Two-dimensional electrophoretic analysis of nuclear proteins from human tumors. Menzel A, et al. **Electrophoresis** 1989 Aug-Sep;10(8-9):554-62

Study of grasshopper meiosis-associated proteins using two-dimensional polyacrylamide gel electrophoresis. Percy MJ, et al. **Electrophoresis** 1989 Oct;10(10):735-8

Human skeletal muscle myosin light chains analyzed by immobilized pH gradients during ontogenesis: identification of new phosphorylatable isoforms of light chain 2. Pernelle JJ, et al. **Electrophoresis** 1990 Apr;11(4):325-32

A review of the CLIP system for the quantitative analysis of two-dimensional electrophoresis gels. Potter DJ. **Electrophoresis** 1990 May;11(5):415-9

Complete separation of anti-hapten antibodies by two-dimensional affinity electrophoresis. Takeo K, et al. **Electrophoresis** 1989 Dec;10(12):813-8

Studies on the heterogeneity of anti-hapten antibodies by means of two-dimensional affinity electrophoresis. Takeo K, et al. **Electrophoresis** 1989 Dec;10(12):818-24

Two-dimensional lectin affinity electrophoresis of alpha-fetoprotein: characterization of erythroagglutinating phytohemagglutinin-dependent microheterogeneity forms. Taketa K, et al. **Electrophoresis** 1989 Dec;10(12):825-9

Specific polypeptide differences in normal versus malignant breast tissue by two-dimensional electrophoresis. Wirth PJ. **Electrophoresis** 1989 Aug-Sep;10(8-9):543-54

Two-dimensional electrophoresis aided by personal computer analysis for screening of mutant proteins in inherited diseases. Yang RC, et al. **Electrophoresis** 1989 Nov;10(11):785-92

Protein analysis using high-resolution two-dimensional polyacrylamide gel electrophoresis. Dunbar BS, et al. **Methods Enzymol** 1990;182:441-59

[Phosphoamino acid analysis by 2-dimensional electrophoresis] Mitsui K, et al. **Seikagaku** 1990 Jun; 62(6):457-61 **(Jpn)**

ELECTROPHORESIS, PAPER see under **ELECTROPHORESIS**

ELECTROPHORESIS, POLYACRYLAMIDE GEL

Visualization of sialoglycoproteins in polyacrylamide gels by acidic ninhydrin reaction. Yao K, et al. **Acta Med Okayama** 1990 Apr;44(2):65-70

Removal of sodium dodecyl sulphate from proteins isolated by sodium dodecyl sulphate polyacrylamide gel electrophoresis. Kaplan B, et al. **Biomed Chromatogr** 1990 Mar;4(2):89-90

Microcomputer-based image analysis systems for two-dimensional electrophoresis gels. Lee C, et al. **Biotechniques** 1988 Mar;6(3):216-24 (14 ref.)

Isolation and recovery of acidic oligosaccharides from polyacrylamide gels by semi-dry electrotransfer. al-Hakim A, et al. **Electrophoresis** 1990 Jan;11(1):23-8

Important parameters in semi-dry electrophoretic transfer. Jacobson G, et al. **Electrophoresis** 1990 Jan;11(1):46-52

Diagnostic use of an analysis of urinary proteins by a practicable sodium dodecyl sulfate-electrophoresis method and rapid two-dimensional electrophoresis. Lapin A, et al. **Electrophoresis** 1989 Aug-Sep;10(8-9):589-95

Molecular characterization of pregnancy-associated plasma protein-A by electrophoresis. Sinosich MJ. **Electrophoresis** 1990 Jan;11(1):70-8

Electrophoretic separation of protein kinases: altered mobility with different crosslinking agents in the presence of certain detergents. Sprott S, et al. **Electrophoresis** 1990 Jan; 11(1):29-33

Deoxyribonuclease zymography adapted to the precast PhastGel electrophoresis media. Straetkvern KO, et al. **Electrophoresis** 1990 Apr;11(4):347-9

Improved detection of lymphocyte membrane proteins in purified form and as a crude mixture using native and denaturing polyacrylamide gel electrophoresis by optimisation of coomassie brilliant blue and silver staining. Warlow RS, et al. **Electrophoresis** 1990 Jan;11(1):53-60

Harnessing electrical forces for separation. Capillary zone electrophoresis, isoelectric focusing, field-flow fractionation, split-flow thin-cell continuous-separation and other techniques. Giddings JC. **J Chromatogr** 1989 Oct 20;480:21-33

Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis. Isoda N, et al. **J Chromatogr** 1990 May 18;527(2):315-25

A case of heavy chain disease: diagnosis and monitoring using assays of immunoglobulin heavy and light chains. Mitchell PE, et al. **Scott Med J** 1990 Feb;35(1):18-9

[Polyacrylamide gel electrophoresis (PAGE) as a method for detecting enteric adenovirus (EAd)] Chen YD. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec; 10(6):366-8 (Eng. Abstr.) **(Chi)**

[Comparative urine protein analysis using SDS electrophoresis and isoelectric focusing] Langer T, et al. **Z Urol Nephrol** 1990 Apr;83(4):197-203 (Eng. Abstr.) **(Ger)**

[Electrophoretic analysis of urinary glycoproteins in diabetic nephropathy using peroxidase-lectins] Nakashima Y, et al. **Nippon Jinzo Gakkai Shi** 1989 Nov;31(11):1133-41 (Eng. Abstr.) **(Jpn)**

[The presence of oligoclonal bands in the cerebrospinal fluid in various neurologic diseases] Coret F, et al. **Rev Clin Esp** 1989 Oct;185(5):231-4 (Eng. Abstr.) **(Spa)**

[Comparison of latex agglutination technics and polyacrylamide gel electrophoresis for the rotavirus diagnosis. Habana City, 1986] Alvarez Vega M, et al. **Rev Cubana Med Trop** 1989 Sep-Dec;41(3):385-97 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

A chamber and method which simplify fixing ultrathin sequencing gels. Horseman ND, et al. **Biotechniques** 1989 Apr;7(4):340, 342, 344

No runs, no drips, no errors: a new technique for sealing polyacrylamide gel electrophoresis apparatus. Wahls WP, et al. **Biotechniques** 1988 Apr;6(4):308-9

A thin-layer multistrip polyacrylamide gel electrophoresis apparatus for Ferguson plot analysis at the submicrogram load level. Orbán L, et al. **Electrophoresis** 1989 Oct; 10(10):726-9

Fabric-reinforced ultrathin polyacrylamide gels for sodium dodecyl sulfate-polyacrylamide gel electrophoresis and isoelectric focusing. Peisker K. **Electrophoresis** 1990 Feb; 11(2):152-5

[A device for current stabilization in disk electrophoresis] Gangnus VS, et al. **Lab Delo** 1989;(9):76 **(Rus)**

METHODS

A new staining and evaluating procedure for protein gel electropherograms based on the pyrogallol red-molybdate complex. Csiba A, et al. **Acta Vet Hung** 1989;37(3):191-6

Detection of glycoproteins separated by nondenaturing polyacrylamide gel electrophoresis using the periodic acid-Schiff stain. Doerner KC, et al. **Anal Biochem** 1990 May 15;187(1):147-50

Visualization under ultraviolet light enhances 100-fold the sensitivity of peroxidase-stained blots. Domingo A, et al. **Anal Biochem** 1989 Oct;182(1):176-81

Staining properties of bovine low molecular weight hydrophobic surfactant proteins after polyacrylamide gel electrophoresis. Fan BR, et al. **Anal Biochem** 1990 Apr; 186(1):41-5

Factors affecting polyacrylamide gel electrophoresis and electroblotting of high-molecular-weight myofibrillar proteins. Fritz JD, et al. **Anal Biochem** 1989 Aug 1; 180(2):205-10

A general method for the detection and mapping of submicrogram quantities of glycosaminoglycan oligosaccharides on polyacrylamide gels by sequential staining with azure A and ammoniacal silver. Lyon M, et al. **Anal Biochem** 1990 Feb 15;185(1):63-70

Electrophoretic separation of high-molecular hydrophobic proteins: apolipoprotein B and other protein constituents of low-density lipoproteins. Melgunov VI, et al. **Anal Biochem** 1990 May 15;187(1):39-43

Solid-phase sequence analysis of proteins electroblotted or spotted onto polyvinylidene difluoride membranes. Pappin DJ, et al. **Anal Biochem** 1990 May 15;187(1):10-9

Polymerase chain reaction amplification products separated on rehydratable polyacrylamide gels and stained with silver. Allen RC, et al. **Biotechniques** 1989 Jul-Aug; 7(7):736-44

A method for horizontal polyacrylamide slab gel electrophoresis. Bellomy GR, et al. **Biotechniques** 1989 Jan; 7(1):16, 19-21

Modifications for SDS-PAGE of proteins. Christy KG Jr, et al. **Biotechniques** 1989 Jul-Aug;7(7):692-3

A protocol for DNA fragment extraction from polyacrylamide gels. Dybczynski I, et al. **Biotechniques** 1988 Nov-Dec;6(10):924-6

A simple method to increase the resilience of DNA sequencing gels. Hampsey DM. **Biotechniques** 1989 Feb; 7(2):150

Migration in polyacrylamide gels of the 80K protein substrate for protein kinase C in mouse fibroblasts is dependent on the choice of crosslinker. Hedberg KK, et al. **Biotechniques** 1989 Jun;7(6):570, 573-4

High sample throughput using sodium dodecyl sulfate-polyacrylamide gel electrophoresis. Marshall T, et al. **Biotechniques** 1988 Nov-Dec;6(10):948, 950

Gel electrophoresis assays for DNA-protein interactions. Revzin A. **Biotechniques** 1989 Apr;7(4):346-55 (42 ref.)

DNA sequencing with direct blotting electrophoresis and colorimetric detection. Richterich P, et al. **Biotechniques** 1989 Jan;7(1):52-9

A simple method for western blotting very thin SDS-polyacrylamide gels. Smith SF. **Biotechniques** 1989 Nov-Dec;7(10):1060-4

Microanalysis of SDS-PAGE electroblotted proteins. Yuen SW, et al. **Biotechniques** 1989 Jan;7(1):74-83

Improved classification of proteinuria by semiautomated ultrathin SDS polyacrylamide gel electrophoresis. Stierle HE, et al. **Clin Nephrol** 1990 Apr;33(4):168-73

A plant dye from Lawsonia inermis for protein staining after polyacrylamide gel electrophoresis. Ali R, et al. **Electrophoresis** 1990 Apr;11(4):343-4

Lipopolysaccharide-protein interactions: determination of dissociation constants by affinity electrophoresis. Borneleit P, et al. **Electrophoresis** 1989 Dec;10(12):848-52

Electrophoresis of gliadins in long acrylamide gels: method and nomenclature. Branlard G, et al. **Electrophoresis** 1990 Apr;11(4):310-4

Numerical analysis of sodium dodecyl sulphate-polyacrylamide gel electrophoretic protein patterns for the classification, identification and typing of medically important bacteria. Costas M. **Electrophoresis** 1990 May;11(5):382-91

Gel electrophoresis of native actin and the actin-deoxyribonuclease I complex. Edgar AJ. **Electrophoresis** 1989 Oct;10(10):722-5

The impact of boundary conditions in free flow field step electrophoresis. Heydt A, et al. **Electrophoresis** 1989 Oct; 10(10):697-704

Rapid and sensitive silver-lipopolysaccharide staining using PhastSystem in fast horizontal polyacrylamide gel electrophoresis. Lee KK, et al. **Electrophoresis** 1989 Oct; 10(10):729-31

Polyacrylamide gradient gel electrophoresis of cytosolic retinol- and retinoic acid-binding proteins: application to rat testis and liver. Melin AM, et al. **Electrophoresis** 1989 Nov;10(11):766-71

Electrophoresis in an expanded stationary boundary. Michov BM. **Electrophoresis** 1990 Apr;11(4):289-92

Electrophoresis in one buffer at two pH values. Michov BM. **Electrophoresis** 1989 Oct;10(10):686-9

Polyacrylamide gel electrophoretic characterization of isoenzymes in the marine algal genus Callithamnion. Russell SJ. **Electrophoresis** 1989 Nov;10(11):771-5

The application of schlieren optics for detection of protein bands and other phenomena in polyacrylamide gel electrophoresis. Takagi T, et al. **Electrophoresis** 1990 May; 11(5):361-6

Polyacrylamide derivatives to the service of bioseparations. Boschetti E. **J Biochem Biophys Methods** 1989 Jul; 19(1):21-36

Dependence of the electrophoretic mobility of DNA in gels on field intermittency. Jamil T, et al. **J Biomol Struct Dyn** 1985 Feb;2(5):963-6

Measurement of normative HDL subfraction cholesterol levels by Gaussian summation analysis of gradient gels. Verdery RB, et al. **J Lipid Res** 1989 Jul;30(7):1085-95

Protein analysis using high-resolution two-dimensional polyacrylamide gel electrophoresis. Dunbar BS, et al. **Methods Enzymol** 1990;182:441-59

One-dimensional gel electrophoresis. Garfin DE. **Methods Enzymol** 1990;182:425-41

Elution of protein from gels. Harrington MG. **Methods Enzymol** 1990;182:488-95

Gel-staining techniques. Merril CR. **Methods Enzymol** 1990; 182:477-88

Not as simple as ABC [news] Pugsley AP. **Microbiol Sci**

1988 May;5(5):152–3
A simple discontinuous buffer system for increased resolution and speed in gel electrophoretic analysis of DNA sequence. Carninci P, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):204
High speed DNA sequencing by capillary electrophoresis. Luckey JA, et al. **Nucleic Acids Res** 1990 Aug 11; 18(15):4417–21
Screening for base mutations in the PAH and HPRT loci using the polymerase chain reaction (PCR) in combination with denaturing gradient gel electrophoresis (DGGE). Børresen AL, et al. **Prog Clin Biol Res** 1990;340A:389–98
[Detection of antinuclear antibodies by immunoblotting from microgels. Sensitivity of the technic] de Keyser F, et al. **Rev Rhum Mal Osteoartic** 1990 Jan;57(1):45–6 (Fre)
[Improved detection of macromolecular proteins with sodium dodecyl sulfate-polyacrylamide slab gel electrophoresis] Hattori A, et al. **Seikagaku** 1989 Aug;61(8):717–9 (Jpn)
[Elution of proteins from polyacrylamide gel: description of a simple and economic method] Bongertz V.
Rev Inst Med Trop Sao Paulo 1989 Jan–Feb;31(1):44–7 (Eng. Abstr.) (Por)
[The rapid electrophoresis of proteins on polyacrylamide gel] Sudovtsov VE, et al. **Biol Nauki** 1990;(1):140–5 (Eng. Abstr.) (Rus)
[A method of analyzing the isoenzyme spectrum of human erythrocytic superoxide dismutase using electrophoresis in polyacrylamide gel layers] Grekhov RA, et al.
Lab Delo 1990;(3):79–80 (Rus)
[A method of sealing glass tubes during filling with polyacrylamide gel] Zaichenko IV, et al. **Lab Delo** 1989; (7):19–20 (Eng. Abstr.) (Rus)
[The role of pulsed gel electrophoresis in the study of biological macromolecules] Chebotarev VIu, et al.
Mol Biol (Mosk) 1990 May–Jun;24(3):598–613 (42 ref.) (Eng. Abstr.) (Rus)
[The determination of the phenotypes of 3 enzyme systems by the polyacrylamide gel electrophoresis method] Svirskiĭ MS, et al. **Sud Med Ekspert** 1990 Jan–Mar;33(1):37–8 (Eng. Abstr.) (Rus)
[Electroelution of protein fractions from a polyacrylamide gel] Lutsyk MD, et al. **Ukr Biokhim Zh** 1990 Jan–Feb; 62(1):112–5 (Eng. Abstr.) (Ukr)

STANDARDS

Reassessment of commercially available molecular weight standards for peptide sodium dodecyl sulfate-polyacrylamide gel electrophoresis using electroblotting and microsequencing. Sallantin M, et al. **Electrophoresis** 1990 Jan;11(1):34–6

ELECTROPHORESIS, STARCH GEL see under **ELECTROPHORESIS**

ELECTROPHORUS

Veratridine modification of the purified sodium channel alpha-polypeptide from eel electroplax. Duch DS, et al. **J Gen Physiol** 1989 Nov;94(5):813–31

ANATOMY & HISTOLOGY

[Morphological study of the heart of Electrophorus electricus] Camilli JA, et al. **Gegenbaurs Morphol Jahrb** 1989;135(4):557–65 (Eng. Abstr.) (Fre)
[The morphological study of the respiratory organ of Electrophorus electricus] Camilli JA, et al.
Gegenbaurs Morphol Jahrb 1989;135(4):567–72 (Eng. Abstr.) (Fre)

METABOLISM

Identification of phosphorylation sites for adenosine 3',5'-cyclic phosphate dependent protein kinase on the voltage-sensitive sodium channel from Electrophorus electricus. Emerick MC, et al. **Biochemistry** 1989 Oct 17; 28(21):8367–80

ELECTROPHYSIOLOGY

Electric current distribution in tissues upon electrotherapy. Lambert H, et al. **Acta Belg Med Phys** 1989 Apr–Jun; 12(2):31–40
Effects of intravitreal perfusion with dopamine in different concentrations on the DC electroretinogram and the standing potential of the albino rabbit eye. Textorius O, et al. **Doc Ophthalmol** 1989 Oct;73(2):149–62
Clinical and electrophysiological findings in three patients with toluene dependency. Toyonaga N, et al.
Doc Ophthalmol 1989 Oct;73(2):201–7
Cortical topography of premotor and motor potentials preceding self-paced, voluntary movement of dominant and non-dominant hands. Tarkka IM, et al.
Electroencephalogr Clin Neurophysiol 1990 Feb;75(2):36–43
Distribution of electric charges and concanavalin A binding sites on autophagic vacuoles and lysosomes in mouse hepatocytes. Sakai M, et al. **Exp Cell Res** 1989 Nov; 185(1):143–53
Melperone: electrophysiologic and antiarrhythmic activity in humans. Hui WK, et al. **J Cardiovasc Pharmacol** 1990 Jan;15(1):144–9
The evolution of computer application to assist during clinical electrophysiologic testing. Gillette P, et al.
J Electrocardiol 1989;22 Suppl:218–22
Stimulation of craniofacial and intramedullary bone formation by negatively charged beads. Krukowski M, et al. **J Oral Maxillofac Surg** 1990 May;48(5):468–75
Recommendations of the North American Society for Pacing and Electrophysiology for Pacemaker & Electrophysiology Procedure Codes—1989. **PACE** 1990 Apr;13(4):388–98
Electrophysiological models for the study of cognition enhancers. Delacour J, et al. **Pharmacopsychiatry** 1990 Feb; 23 Suppl 2:90–3 (32 ref.)
Fragments of ACTH affect electrophysiological signs of controlled stimulus processing in humans. Born J, et al. **Psychopharmacology (Berl)** 1989;99(4):439–44
Basic biology of clozapine: electrophysiological and neuroendocrinological studies. Gudelsky GA, et al.
Psychopharmacology (Berl) 1989;99 Suppl:S13–7 (38 ref.)
[Dispersion ratios in electrodynamics as applied to biological objects] Brodskiĭ VB. **Dokl Akad Nauk SSSR** 1989; 309(4):974–7 (Rus)
[Contingent negative variation in normal and dyslexic children] Chayo-Dichy R, et al. **Rev Invest Clin** 1989 Jul–Sep;41(3):227–33 (30 ref.) (Eng. Abstr.) (Spa)
[Electric and motor activity at the level of the small intestine in the dog: contractions without spikes and spikes without contractions] Defilippi C, et al. **Rev Med Chil** 1988 Dec; 116(12):1246–51 (Eng. Abstr.) (Spa)

EDUCATION

Electricity and the body: a precollege demonstration laboratory. Carroll RG. **Am J Physiol** 1989 Dec;257(6 Pt 3):S6–8

INSTRUMENTATION

An ultracompliant glass microelectrode for intracellular recording. Fedida D, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):C164–70
Quantitative noninvasive electrophysiological evaluation of the activity of the cutaneous division of the sympathetic nervous system. Ionescu-Tirgoviste C, et al.
Arch Int Physiol Biochim 1990 Mar;98(1):111–9
High standard one-loop potential clamp device for Ranvier nodes. Albers M, et al. **Gen Physiol Biophys** 1989 Oct; 8(5):409–33
Scaling limitations of silicon multichannel recording probes. Najafi K, et al. **IEEE Trans Biomed Eng** 1990 Jan;37(1):1–11
A pipette holder for use in patch-clamp measurements. Buisman HP, et al. **J Neurosci Methods** 1990 Feb; 31(2):89–91
A multiwire microelectrode for single unit recording in deep brain structures. Jaeger D, et al. **J Neurosci Methods** 1990 May;32(2):143–8
A low-cost single-board solution for real-time, unsupervised waveform classification of multineuron recordings. Kreiter AK, et al. **J Neurosci Methods** 1989 Oct;30(1):59–69
Sealing cultured invertebrate neurons to embedded dish electrodes facilitates long-term stimulation and recording. Regehr WG, et al. **J Neurosci Methods** 1989 Nov; 30(2):91–106
An automated technique for measuring the recovery cycle of human nerves. Stys PK, et al. **Muscle Nerve** 1990 Aug; 13(8):750–8
A method to quantify and correct for edge leaks in Ussing chambers. Kottra G, et al. **Pflugers Arch** 1989 Nov; 415(2):235–40
Perfusing pipettes. Tang JM, et al. **Pflugers Arch** 1990 May; 416(3):347–50
Lick sensors as tools in behavioral and neuroscience research. Weijnen JA. **Physiol Behav** 1989 Dec;46(6):923–8
Tapping into nerve conversations [news] [see comments] Williams S. **Science** 1990 May 4;248(4955):555 Comment in: Science 1990 Jun 15;248(4961):1280–1.
[A device for cutting carbon fibers when preparing microelectrodes] Blistrabas R, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):874–5 (Rus)
[An automated electrophysiological device for studying the neuronal reactions of the cat medulla oblongata to stimulation of gastric mechanoreceptors] Panteleev SS.
Fiziol Zh SSSR 1990 Jan;76(1):135–9 (Rus)
[A method for performing separate impedance measurement of the brain and biological objects] Sergienko TM.
Zh Vopr Neirokhir 1989 May–Jun;(3):47–9 (Rus)
[An apparatus for dual microelectrode fixation of current in the oocytes of the frog Xenopus laevis] Kristián T, et al. **Cesk Fysiol** 1990;39(1):47–54 (Slo)

METHODS

Fat-free mass estimation by the two-electrode impedance method. Boulier A, et al. **Am J Clin Nutr** 1990 Oct; 52(4):581–5
Assessment of fat-free mass in teen-agers: use of TOBEC methodology. Van Loan MD. **Am J Clin Nutr** 1990 Oct; 52(4):586–90
Novel recordings of renal sympathetic nerve activity in conscious fetal sheep and newborn lambs. Smith FG, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F218–21
Recurring discharge patterns in multiple spike trains. I. Detection. Frostig RD, et al. **Biol Cybern** 1990;62(6):487–93
The view of an EEG-EP mapper. Lehmann D.
Brain Topogr 1988 Winter;1(2):77–8
Determination of transmural location of onset of activation from cardiac surface electrograms. Burgess MJ, et al.
Circulation 1990 Oct;82(4):1335–42
Electrophysiological testing and nonsustained ventricular tachycardia. Use and limitations in patients with coronary artery disease and impaired ventricular function [see comments] Wilber DJ, et al. **Circulation** 1990 Aug; 82(2):350–8 Comment in: Circulation 1990 Aug;82(2):633–5.
Adaptive filtering in biological signal processing. Iyer VK, et al. **Crit Rev Biomed Eng** 1990;17(6):531–84 (32 ref.)
Restoring rectangular pulses of stimulation current. Mundl WJ. **Electroencephalogr Clin Neurophysiol** 1966 May; 20(5):527–8
Spike separation in multiunit records: a multivariate analysis of spike descriptive parameters. Vibert JF, et al.
Electroencephalogr Clin Neurophysiol 1979 Aug; 47(2):172–82
The measurement of receptive field properties of neurones in the visual cortex of the conscious, mobile cat. Webb AC, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):243–5
Comfortable insertion of sphenoidal electrodes in children. Wyllie E, et al. **Epilepsia** 1990 Sep–Oct;31(5):521–3
A practical method for the analysis of osmotic-and-diffusive energy conversion. Kargol M. **Gen Physiol Biophys** 1990 Feb;9(1):19–28
Electrophysiological measurements of volume changes in leech neuropile glial cells. Ballanyi K, et al. **GLIA** 1990; 3(3):151–8
The structure and dynamics of patch-clamped membranes: a study using differential interference contrast light microscopy. Sokabe M, et al. **J Cell Biol** 1990 Aug; 111(2):599–606
Estimation of free dopamine in the cytoplasm of the giant dopamine cell of Planorbis corneus by voltammetry and capillary electrophoresis. Chien JB, et al. **J Neurochem** 1990 Feb;54(2):633–8
Evaluation of horseradish peroxidase as an intracellular stain in electrophysiological recording. Ball A, et al.
J Neurosci Methods 1990 Jan;31(1):35–41
A statistical test for demonstrating a presynaptic site of action for a modulator of synaptic amplitude. Clements JD.
J Neurosci Methods 1990 Jan;31(1):75–88
Automatic classification and analysis of microneurographic spike data using a PC/AT. Forster C, et al.
J Neurosci Methods 1990 Feb;31(2):109–18
A technique for eliciting muscular reflex responses using position controlled dc motors. Holl G, et al.
J Neurosci Methods 1990 Jun;32(3):207–11
Improved artifact rejection and isolation of compound action potentials by means of digital subtraction. Kiss I, et al.
J Neurosci Methods 1989 Dec;30(3):219–29
Applications of the expectation-maximization algorithm to quantal analysis of postsynaptic potentials. Kullmann DM.
J Neurosci Methods 1989 Dec;30(3):231–45
Bioimpedance: a novel method for the determination of extravascular lung water. Zellner JL, et al. **J Surg Res** 1990 May;48(5):454–9
Patch cramming: monitoring intracellular messengers in intact cells with membrane patches containing detector ion channels. Kramer RH. **Neuron** 1990 Mar;4(3):335–41
Generator mechanisms of epileptic potentials analyzed by dipole tracing method. Homma S, et al. **Neurosci Lett** 1990 May 31;113(2):181–6
Barium blocks cell membrane and tight junction conductances in Necturus gallbladder epithelium. Experiments with an extended impedance analysis technique. Kottra G, et al. **Pflugers Arch** 1990 Mar; 415(6):718–25
A dual-pipette technique that permits rapid internal dialysis and membrane potential measurement in voltage-clamped cardiomyocytes. Shuba YM, et al. **Pflugers Arch** 1990 Mar; 415(6):767–73
Statistical analysis of dose-response curves in extracellular electrophysiological studies of single neurons. Pitts DK, et al. **Synapse** 1990;5(4):281–93
[Sustained ventricular tachycardia: inducibility during invasive electrophysiologic studies] Schlaepfer J, et al.
Schweiz Med Wochenschr 1990 Mar 31;120(13):451–5 (Eng. Abstr.) (Fre)
[The differential diagnostic value of polysomnography] Schneider-Helmert D, et al.
Schweiz Rundsch Med Prax 1990 May 15;79(20):633–8 (Eng. Abstr.) (Ger)
[Electrophysiological testing of multiple antiarrhythmic drugs in patients with paroxysmal supraventricular tachycardia after chronic oral administration] Nishino T.
Hokkaido Igaku Zasshi 1989 Nov;64(6):738–48 (Eng. Abstr.) (Jpn)
[New possibilities for the electrical impedance method of evaluating brain tissue status] Vorob'ev MV, et al.
Fiziol Zh SSSR 1989 Nov;75(11):1630–4 (Rus)
[Methodology for the detection and analysis of activity patterns] Dezi RE, et al.
Acta Physiol Pharmacol Latinoam 1989;39(3):269–72 (Eng. Abstr.) (Spa)
[The bundle of His: non-invasive recording of its activity] Kandora H, et al. **Rev Med Chil** 1988 Sep;116(9):913–7 (Eng. Abstr.) (Spa)

ELECTROPLATING see under **ELECTROLYSIS**

ELECTRORETINOGRAPHY

Electroretinographic findings in inherited ataxias. Palma V,

et al. **Acta Neurol (Napoli)** 1989 Dec;11(6):383–9
Electroretinographic diagnosis in families with X-linked retinitis pigmentosa. Andréasson SO, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):139–44
Electroretinograms in microcephaly with chorioretinal degeneration. Manning FJ, et al. **Am J Ophthalmol** 1990 Apr 15;109(4):457–63
Effect of squinting on the pattern electroretinogram. Mishra J, et al. **Am J Ophthalmol** 1989 Dec 15;108(6):744–6
Autosomal dominant congenital stationary night blindness and normal fundus with an electronegative electroretinogram. Noble KG, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):44–8
The pattern electroretinogram in diabetes. Prager TC, et al. **Am J Ophthalmol** 1990 Mar 15;109(3):279–84
An electroretinographic and molecular genetic study of X-linked cone degeneration. Reichel E, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):540–7
The electroretinogram. Harden A, et al. **Arch Dis Child** 1989 Jul;64(7):1080–7
Electrophysiological changes in juvenile diabetics without retinopathy. Juen S, et al. **Arch Ophthalmol** 1990 Mar; 108(3):372–5
Visual function deficits in glaucoma. Electroretinogram pattern and luminance nonlinearities. Odom JV, et al. **Arch Ophthalmol** 1990 Feb;108(2):222–7
Electroretinographic findings in fellow eyes of patients with central retinal vein occlusion. Sakaue H, et al. **Arch Ophthalmol** 1989 Oct;107(10):1459–62
Interaction between the serotonin and dopamine systems in humans: preliminary findings. Castrogiovanni P, et al. **Brain Res** 1989 Dec 11;504(1):129–31
Maturation of the photopic b-wave and oscillatory potentials of the electroretinogram in the neonatal rabbit. Gorfinkel J, et al. **Can J Ophthalmol** 1990 Apr;25(3):138–44
Survival of structure and function in postmortem rat and human retinas: rhodopsin regeneration, cGMP and the ERG. Huang JC, et al. **Curr Eye Res** 1990 Feb;9(2):151–62
Changes in ERG amplitude following laser induced damage to the primate retina. Kratz KE, et al. **Curr Eye Res** 1990 May;9(5):435–44
The wide-angle pattern electroretinogram. Relation between pattern electroretinogram amplitude and stimulus area using large stimuli. Aylward GW, et al. **Doc Ophthalmol** 1989 Nov;73(3):275–83
Pattern electroretinogram in glaucoma and ocular hypertension. Bach M, et al. **Doc Ophthalmol** 1989 Oct; 73(2):173–81
The clinical utility of the foveal electroretinogram: a review. Biersdorf WR. **Doc Ophthalmol** 1989 Dec;73(4):313–25 (33 ref.)
The influence of early diabetes on the pattern electroretinogram. Boschi MC, et al. **Doc Ophthalmol** 1989 Apr;71(4):369–74
Abnormality of the pattern electroretinogram and pattern visual evoked cortical response in esotropic cats. Devlin ML, et al. **Doc Ophthalmol** 1989 Sep;73(1):53–69
Distortion of spatial selectivity by pattern onset stimulation. Drasdo N, et al. **Doc Ophthalmol** 1989 May;72(1):1–8
Steady-state pattern electroretinogram in insulin-dependent diabetics with no or minimal retinopathy. Falsini B, et al. **Doc Ophthalmol** 1989 Oct;73(2):193–200
Electrophysiologic testing techniques for children. Fulton AB, et al. **Doc Ophthalmol** 1989 Apr;71(4):341–54 (57 ref.)
Naka-Rushton equation parameters in electroretinogram analysis of daunomycin effects on retinal function. Gangadhar DV, et al. **Doc Ophthalmol** 1989 May; 72(1):61–70
Pattern electroretinogram recorded by skin electrodes in early ocular hypertension and glaucoma. Hawlina M, et al. **Doc Ophthalmol** 1989 Oct;73(2):183–91
Pattern visual evoked potentials and pattern electroretinograms in hypothyroidism. Holder GE, et al. **Doc Ophthalmol** 1989 Oct;73(2):127–31
Electroretinography and electro-oculography to localize abnormalities in early-stage inflammatory eye disease. Ikeda H, et al. **Doc Ophthalmol** 1989 Dec;73(4):387–94
Variability in clinically measured photopic oscillatory potentials. Kothe AC, et al. **Doc Ophthalmol** 1989 Apr; 71(4):381–95
The electroretinogram in Stargardt's disease and fundus flavimaculatus. Lachapelle P, et al. **Doc Ophthalmol** 1989 Dec;73(4):395–404
The diagnostic use of the second oscillatory potential in clinical electroretinography. Lachapelle P, et al. **Doc Ophthalmol** 1989 Dec;73(4):327–36
Sensitivity distribution in the central and midperipheral visual field determined by pattern electroretinography and harmonic analysis. Marx R, et al. **Doc Ophthalmol** 1989 Dec;73(4):347–57
The effects of acetazolamide on electroretinogram B-wave amplitude in albino rabbits. Odom JV, et al. **Doc Ophthalmol** 1989 May;72(1):55–9
Retinitis pigmentosa and inner retina. Functional study by means of oscillatory potentials of the electroretinogram. Ponte F, et al. **Doc Ophthalmol** 1989 Dec;73(4):337–46
Serotonin depletion modifies the pigeon electroretinogram. Porciatti V, et al. **Doc Ophthalmol** 1989 May;72(1):93–100
Correlation with age and sex of flash-evoked electroretinogram and retinal oscillatory potentials recorded with skin electrodes. Sannita WG, et al. **Doc Ophthalmol** 1989 Apr;71(4):413–9
Oscillatory potentials in early diabetic retinopathy. van der Torren K, et al. **Doc Ophthalmol** 1989 Apr;71(4):375–9
Hemiretinal stimuli elicit different amplitudes in the pattern electroretinogram. Yoshii M, et al. **Doc Ophthalmol** 1989 May;72(1):21–30
Effects of chlorpromazine on pattern and flash ERGs and VEPs compared to oxazepam and to placebo in normal subjects. Bartel P, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct; 77(5):330–9
Electroretinograms to checkerboard pattern reversal in cats: physiological characteristics and effect of retrograde degeneration of ganglion cells. Tobimatsu S, et al. **Electroencephalogr Clin Neurophysiol** 1989 Oct; 73(4):341–52
Pattern ERG in rats following section of the optic nerve. Berardi N, et al. **Exp Brain Res** 1990;79(3):539–46
The scotopic threshold response in diabetic retinopathy. Aylward GW. **Eye** 1989;3 (Pt 5):626–37
Electroretinographic findings in panretinal photocoagulation for diabetic retinopathy. A randomized study with blue-green argon and red krypton lasers. Capoferri C, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(3):232–6
Cone dystrophy and supernormal dark-adapted b-waves in the electroretinogram. Foerster MH, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(2):116–9 (11 ref.)
Electroretinography in central retinal vein occlusion. Correlation of electroretinographic changes with pupillary abnormalities. Hayreh SS, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(6):549–61
Electrophysiological consequences of retinal hypoxia. Linsenmeier RA. **Graefes Arch Clin Exp Ophthalmol** 1990; 228(2):143–50
Cone interaction and color substitution as revealed by pattern ERG. Niepel G, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(3):264–9
Monitoring of patients taking canthaxanthin and carotene: an electroretinographic and ophthalmological survey. Arden GB, et al. **Hum Toxicol** 1989 Nov;8(6):439–50
Effect of elevation of body temperature on the electroretinogram of the rat. Ahmed B, et al. **Int J Hyperthermia** 1989 Nov–Dec;5(6):675–82
Electroretinograms and visual evoked potentials in long-term monocularly deprived cats. Baro JA, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1405–9
Simultaneous pattern reversal ERG and VER recordings. Effect of stimulus field and central scotoma. Sakaue H, et al. **Invest Ophthalmol Vis Sci** 1990 Mar 1;31(3):506–11
Simultaneous VEP and PERG investigations in early Parkinson's disease. Calzetti S, et al. **J Neurol Neurosurg Psychiatry** 1990 Feb;53(2):114–7
Pattern electroretinography in patients with delayed pattern visual evoked potentials due to distal anterior visual pathway dysfunction. Holder GE. **J Neurol Neurosurg Psychiatry** 1989 Dec;52(12):1364–8
Origin of negative potentials in the light-adapted ERG of cat retina. Frishman LJ, et al. **J Neurophysiol** 1990 Jun; 63(6):1333–46
Complete cryptophthalmos: case report with normal flash-VEP and ERG. Hing S, et al. **J Pediatr Ophthalmol Strabismus** 1990 May-Jun; 27(3):133–5
Electroretinographic changes induced by organophosphorus pesticides in rats. Yoshikawa H, et al. **J Toxicol Sci** 1990 May;15(2):87–95
Quantitative evaluation of electroretinogram before cataract surgery. Cruz RD, et al. **Jpn J Ophthalmol** 1989;33(4):451–7
Three-dimensional analysis of averaged electroretinograms for the evaluation of rhegmatogenous retinal detachment and related pathological conditions. Kawashima S, et al. **Jpn J Ophthalmol** 1990;34(1):110–28
Three-dimensional analysis of averaged electro-retinograms: normal appearance and bioelectric artifacts. Kawashima S, et al. **Jpn J Ophthalmol** 1990;34(1):95–109
Quantitative analysis of the insulating effect of silicone oil on the electroretinogram. Doslak MJ. **Med Biol Eng Comput** 1989 May;27(3):254–9
A review of the clinical applications of the pattern electroretinogram. Hull BM, et al. **Ophthalmic Physiol Opt** 1989 Apr;9(2):143–52 (134 ref.)
Vitrectomy for diabetic eye disease. The prognostic value of pre-operative electroretinography and visual evoked cortical potentials. Summanen P. **Ophthalmologica** 1989; 199(2-3):60–71
Electroretinographic findings in human oculocutaneous albinism. Wack MA, et al. **Ophthalmology** 1989 Dec; 96(12):1778–85
ERG of the albino rdy rat and susceptibility to light damage. Hardten DR, et al. **Prog Clin Biol Res** 1989;314:377–91
ERG of the pigmented rdy rat at advanced stages of hereditary retinal degeneration. Noell WK, et al. **Prog Clin Biol Res** 1989;314:357–75
The pattern electroretinogram in animals and humans: physiological and clinical applications. Maffei L, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990;67:289–96 (28 ref.)
Bull's-eye maculopathy and negative electroretinogram. Miyake Y, et al. **Retina** 1989;9(3):210–5
The electroretinogram in neurologic practice. Schmeisser ET, et al. **Semin Neurol** 1990 Jun;10(2):204–9 (16 ref.)
The infant with nystagmus, normal appearing fundi, but an abnormal ERG. Lambert SR, et al. **Surv Ophthalmol** 1989 Nov-Dec;34(3):173–86 (127 ref.)
Fast activity and oscillatory potential of carp retina in the frequency domain. Alcayaga J, et al. **Vision Res** 1989; 29(8):949–55
Temporal relationship between ERG components and geniculate unit activity in rabbit. Benoit J, et al. **Vision Res** 1990;30(6):797–806
Optic nerve blockade influences the retinal responses to flash in rabbits. Molotchnikoff S, et al. **Vision Res** 1989; 29(8):957–63
The electroretinogram of the little owl (Athene noctua). Porciatti V, et al. **Vision Res** 1989;29(12):1693–8
Lateral interaction component and local luminance nonlinearities in the human pattern reversal ERG. Sutter EE, et al. **Vision Res** 1990;30(5):659–71
Isolation of scotopic human electroretinograms using color adaptation and pattern reversal stimuli. Wu SA, et al. **Vision Res** 1989;29(10):1277–83
[ERG study of high degree myopia with retinal detachment] Wang XA. **Chung Hua Yen Ko Tsa Chih** 1990 May; 26(3):154–5 (Eng. Abstr.) **(Chi)**
[Electrophysiologic aspects of amblyopia] Frosini R, et al. **Bull Soc Ophtalmol Fr** 1990 Feb;90(2):241–8 (31 ref.) **(Fre)**
[Value of electroretinography and early echography in severe eye injuries] Zanlonghi X, et al. **Bull Soc Ophtalmol Fr** 1989 Dec;89(12):1469–75 (Eng. Abstr.) **(Fre)**
[Ocular electrophysiologic study of patients with a family history of diabetes] Malagola R, et al. **Ophtalmologie** 1989 Sep–Dec;3(4):283–4 (Eng. Abstr.) **(Fre)**
[X-chromosomal congenital retinoschisis. Clinical aspects and electrophysiology] Kellner U, et al. **Fortschr Ophthalmol** 1990;87(3):264–8 (Eng. Abstr.) **(Ger)**
[Animal experiment studies of the ocular toxicity of cardiac glycosides] Schneider T, et al. **Fortschr Ophthalmol** 1989; 86(6):751–5 (Eng. Abstr.) **(Ger)**
[Retinal diseases as a cause of increased latency in the visual evoked cortical potential] Lorenz R, et al. **Klin Monatsbl Augenheilkd** 1990 Jan;196(1):17–20 (Eng. Abstr.) **(Ger)**
[Effects of neurotransmitters and blockers on electroretinogram c-wave and light peak of the chick] Asamizu N. **Nippon Ganka Gakkai Zasshi** 1989 Dec; 93(12):1098–107 (Eng. Abstr.) **(Jpn)**
[Isolation of rod- and cone-mediated c-waves in the chicken ERG using monochromatic stimuli] Fukuda A. **Nippon Ganka Gakkai Zasshi** 1989 May;93(5):599–609 (Eng. Abstr.) **(Jpn)**
[Evaluation of typical and atypical retinal pigmentary dystrophy by three dimensional analysis (XY plane and time) of averaged electroretinograms] Kawashima S, et al. **Nippon Ganka Gakkai Zasshi** 1989 Dec;93(12):1114–25 (Eng. Abstr.) **(Jpn)**
[The relationship between amplitude and extent of detachment indicated by the ERG c-wave of rabbit eyes with experimental retinal detachment] Mori T, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jun;94(6):582–5 (Eng. Abstr.) **(Jpn)**
[Simulation of the electroretinographic slow P III component by injection of K+-free Ringer's solution in the frog retina] Yanagida T. **Nippon Ganka Gakkai Zasshi** 1989 Aug; 93(8):809–11 (Eng. Abstr.) **(Jpn)**
[The effect of synthetic analog of leu-enkephalin on frog electroretinogram] Vitanova L, et al. **Dokl Akad Nauk SSSR** 1990 Jan–Feb;310(1):237–9 **(Rus)**
[Factors affecting the electroretinogram] Chynoranský M. **Bratisl Lek Listy** 1990 Jun;91(6):492–6 (Eng. Abstr.) **(Slo)**

DRUG EFFECTS

ERG and electron microscopic findings after intravitreal use of aminoglycosides. Moschos M, et al. **Ann Ophthalmol** 1990 Jul;22(7):255–8, 262
Influence of isobutylmethylxanthine on the direct current electroretinogram of albino rabbit eyes. Jarkman S. **Doc Ophthalmol** 1989 Oct;73(2):163–71
Effects of intravitreal perfusion with dopamine in different concentrations on the DC electroretinogram and the standing potential of the albino rabbit eye. Textorius O, et al. **Doc Ophthalmol** 1989 Oct;73(2):149–62
Effects of 2-amino-4-phosphonobutyric acid (APB) and glycine on the oscillatory potentials of the rat electroretinogram. Matthews GP, et al. **Exp Eye Res** 1989 Nov;49(5):777–87
Effect of levodopa on the human pattern electroretinogram and pattern visual evoked potentials. Gottlob I, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(5):421–7
Effect of levodopa on the human luminance electroretinogram. Gottlob I, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1252–8
Alterations of the cat's electroretinogram induced by the lesioning of the indoleamine-accumulating amacrine cells. Hamasaki DI, et al. **Ophthalmic Res** 1990;22(1):19–30
Attenuating effects of diazepam on the electroretinogram of normal humans. Jaffe MJ, et al. **Retina** 1989;9(3):216–25
[Effects of adenosine on the electrophysiology of the retina] Früh B, et al. **Klin Monatsbl Augenheilkd** 1990 May; 196(5):369–71 (Eng. Abstr.) **(Ger)**
[Changes in the electroretinogram during enflurane anesthesia] Yagi M, et al. **Masui** 1989 Nov;38(11):1438–43 (Eng. Abstr.) **(Jpn)**

INSTRUMENTATION

Transient corneal changes associated with the use of gold foil electrodes. Aylward GW, et al. **Br J Ophthalmol** 1989 Dec;73(12):980-4

ERG electrode in pediatric patients: comparison of DTL fiber, PVA-gel, and non-corneal skin electrodes. Coupland SG, et al. **Doc Ophthalmol** 1989 Apr;71(4):427-33

A new speculum electrode for electroretinography. Lachapelle P, et al. **J Neurosci Methods** 1990 Jun; 32(3):245-9

[Fast frequency electroretinogram differentiates ocular hypertension] Hofmann H. **Klin Monatsbl Augenheilkd** 1990 May;196(5):389-91 (Eng. Abstr.) **(Ger)**

[Use of the scanning laser ophthalmoscope for recording pattern electroretinography and visual evoked cortical potentials] Teping C, et al. **Klin Monatsbl Augenheilkd** 1989 Sep;195(3):203-6 (Eng. Abstr.) **(Ger)**

METHODS

The meaning of simultaneous PERG-VER in the early diagnosis of glaucoma: a statistical evaluation. Mannaerts R, et al. **Bull Soc Belge Ophtalmol** 1988;227:15-28

Simultaneous foveal and parafoveal electroretinograms in hereditary degeneration of the central retina. Bagolini B, et al. **Doc Ophthalmol** 1989 Apr;71(4):435-43

Double-flash electroretinography in human eyes. Kooijman AC, et al. **Doc Ophthalmol** 1989 Dec;73(4):377-85

Electroretinographic responses of the short-wavelength-sensitive cones. Gouras P, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1203-9

The effect of gold foil electrode position on the electroretinogram in human subjects. McAllan A, et al. **Vision Res** 1989;29(9):1085-7

[Electroretinographic problems in the diagnosis of diseases of the cones and macula] Hache JC, et al. **Ophtalmologie** 1989 Sep-Dec;3(4):279-82 (Eng. Abstr.) **(Fre)**

[AC and DC electroretinography in degenerative retinal diseases] Kellner U, et al. **Fortschr Ophthalmol** 1990; 87(2):196-200 (Eng. Abstr.) **(Ger)**

[The ERG recording with high speed scanning of monochromatic stimuli] Sugimoto M, et al. **Nippon Ganka Gakkai Zasshi** 1990 Jun;94(6):610-4 (Eng. Abstr.) **(Jpn)**

[Pattern reversal electroretinogram--effect of check size, luminance, field size and defocusing] Yoshii M, et al. **Nippon Ganka Gakkai Zasshi** 1989 May;93(5):610-6 (Eng. Abstr.) **(Jpn)**

[Analysis and correction of errors of the rejector filtration of electroretinographic signals] Semenov PA, et al. **Med Tekh** 1989 Jul-Aug;(4):38-44 (Eng. Abstr.) **(Rus)**

[Methods of recording local ERG] Shamshinova AM, et al. **Vestn Oftalmol** 1989 Nov-Dec;105(6):47-9 (Eng. Abstr.) **(Rus)**

STANDARDS

An international standard for electroretinography. Marmor MF. **Doc Ophthalmol** 1989 Dec;73(4):299-302

[Diagnosis of hereditary retinopathies in the dog. The value of fluorescein angiography and electrophysiology] Lescure F. **Ophtalmologie** 1989 Sep-Dec;3(4):285-90 (Eng. Abstr.) **(Fre)**

VETERINARY

Partial masking of the canine electroretinogram by oscillatory potentials. The problem of frequency bandwidth. Sims MH. **J Vet Intern Med** 1990 Jan-Feb;4(1):40-2

ELECTROSHOCK

The atrioventricular conduction tissue of the dog. Histochemical properties; influence of electric shock. Isaacson R, et al. **Am Heart J** 1968 Feb;75(2):206-14

Mechanisms responsible for decline in transthoracic impedance after DC shocks. Sirna SJ, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1180-3

Effect of stunning on spontaneous physical activity and evoked activity in the brain. Gregory NG, et al. **Br Poult Sci** 1990 Mar;31(1):215-20

Intermittent shock titration task in the rhesus monkey and its validity as an analgesiometric procedure. Bloss JL, et al. **Brain Res** 1989 Oct 16;499(2):344-56

Effects of ipsapirone and BAY R 1531 on learned helplessness. Graeff EO, et al. **Braz J Med Biol Res** 1989; 22(9):1141-4

Beta-endorphin and electroconvulsive shock alter the retrieval of two avoidance tasks when given after the first, but not the second, training session. Netto CA, et al. **Braz J Med Biol Res** 1989;22(2):199-204

Conduction disturbances caused by high current density electric fields. Yabe S, et al. **Circ Res** 1990 May; 66(5):1190-203

Anticonvulsant effects of dihydropyridine Ca2+ antagonists in electrocortical shock seizures. Meyer FB, et al. **Epilepsia** 1990 Jan-Feb;31(1):68-74

Chronic electroconvulsive shock increases D-1 receptor binding in rat substantia nigra. Fochtmann LJ, et al. **Eur J Pharmacol** 1989 Aug 22;167(2):305-6

Repeated electroconvulsive shock (ECS) enhances striatal D-1 dopamine receptor turnover in rats. Nowak G, et al. **Eur J Pharmacol** 1989 Aug 22;167(2):307-8

Effect of electroconvulsions on glucose homeostasis in rabbits. Jaju BP, et al. **Indian J Med Res** 1990 Apr; 92:128-32

Short- and long-term alterations of gene expression in limbic structures by repeated electroconvulsive-induced seizures. Leviel V, et al. **J Neurochem** 1990 Mar;54(3):899-904

Chronic electroconvulsive seizures down-regulate expression of the immediate-early genes c-fos and c-jun in rat cerebral cortex. Winston SM, et al. **J Neurochem** 1990 Jun; 54(6):1920-5

Electroconvulsive shock differentially increases binding to alpha-1 adrenergic receptor subtypes in discrete regions of rat brain. Blendy JA, et al. **J Neurosci** 1990 Aug; 10(8):2580-6

Depletion of serotonin in the nervous system of Aplysia reduces the behavioral enhancement of gill withdrawal as well as the heterosynaptic facilitation produced by tail shock. Glanzman DL, et al. **J Neurosci** 1989 Dec; 9(12):4200-13

Differential cross-tolerance to opioids in squirrel monkeys responding under a shock titration schedule. Craft RM, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):945-52

Influence of electric foot shock on pharmacokinetics of isosorbide dinitrate subcutaneously administered to rats. Gomita Y, et al. **Jpn J Pharmacol** 1989 Sep;51(1):132-5

Age related changes in the effect of electroconvulsive shock on the blood brain barrier permeability in rats. Oztas B, et al. **Mech Ageing Dev** 1990 Feb 1;51(2):149-55

The management of depression: a review of pharmacological and non-pharmacological treatments. Johnson GF, et al. **Med J Aust** 1989 Oct 2;151(7):397-400, 403, 406 (29 ref.)

Current opinion [letter] Jones R. **Nature** 1990 Mar 8; 344(6262):98

Potentiation by glycine of anticonvulsant drugs in maximal electroshock seizures in rats. Peterson SL, et al. **Neuropharmacology** 1990 Apr;29(4):399-409

Pretreatment with N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline accelerates the electroshock-induced decrease in density of beta-adrenoceptors but not functional downregulation. Pilc A, et al. **Neuropharmacology** 1990 May;29(5):469-73

Lithium effects on adjunctive alcohol consumption. III: FT-shock as the inducing schedule. Hines G. **Pharmacol Biochem Behav** 1989 Nov;34(3):591-3

Isolation and characterization of alarm pheromone from electric shock-induced earthworm secretion. Jiang XC, et al. **Pharmacol Biochem Behav** 1989 Oct;34(2):213-21

The influence of antidepressive treatment on GABA-related mechanisms in the rat hippocampus: behavioral studies. Plaźnik A, et al. **Pharmacol Biochem Behav** 1989 Aug; 33(4):749-53

Are ascending noradrenergic and serotonergic pathways necessary for effects of electroconvulsive treatment? Clonidine hypothermia and forced swim study. Danysz W, et al. **Pol J Pharmacol Pharm** 1989 Jan-Feb;41(1):15-22

The melatonin generating system in the rat retina and pineal gland: effect of single and repeated electroconvulsive shock (ECS). Nowak JZ, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec;40(6):573-84

Repeated electroconvulsive shock (ECS) reduces the isoprenaline-induced drinking in rats. Przegaliński E, et al. **Pol J Pharmacol Pharm** 1989 Jan-Feb;41(1):41-4

Lower gut contents and defecatory responses of broiler chickens as affected by feed withdrawal and electrical treatment at slaughter. Papa CM, et al. **Poult Sci** 1989 Nov; 68(11):1478-84

The long-term effects of diazepam, lorazepam, and buspirone on behavioral suppression by a shock signal. Davidson TL. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):223-36

Brain neuropeptides: tachykinins, neuropeptide Y, neurotensin and vasoactive intestinal polypeptide in the rat brain: modifications by ECT and indomethacin. Theodorsson E, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(3):387-407

Effect of quinine on electroshock and pentylenetetrazol-induced seizures in mice. Wambebe C, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(1):121-7

The effects of desipramine (DMI) and electroconvulsive shock (ECS) on the function of the hypothalamo-pituitary-thyroid axis in the rat. Atterwill CK, et al. **Psychoneuroendocrinology** 1989;14(5):339-46

Prolactin and corticosterone response to repeated footshock stress in male rats. Ratner A, et al. **Psychoneuroendocrinology** 1989;14(5):393-6

Effect of repetitive electroconvulsive treatment on sensitivity to pain and on [3H]nitrendipine binding sites in cortical and hippocampal membranes. Antkiewicz-Michaluk L, et al. **Psychopharmacology (Berl)** 1990;101(2):240-3

Regional neurotransmitter responses after acute and chronic electroconvulsive shock. Glue P, et al. **Psychopharmacology (Berl)** 1990;100(1):60-5

Electroconvulsive treatment attenuates behavioral response to SKF 38393 in reserpine-treated mice. Hao XZ, et al. **Psychopharmacology (Berl)** 1990;100(1):135-7

Utility of an elevated plus-maze for the evaluation of memory in mice: effects of nootropics, scopolamine and electroconvulsive shock. Itoh J, et al. **Psychopharmacology (Berl)** 1990;101(1):27-33

Repeated ECS enhances dopamine D-1 but not D-2 agonist-induced behavioural responses in rats. Sharp T, et al. **Psychopharmacology (Berl)** 1990;100(1):110-4

[Inhibitory effects of L-threo-DOPS on electroshock seizure in mice] Yoshida M, et al. **No To Shinkei** 1989 Jun; 41(6):567-73 (Eng. Abstr.) **(Jpn)**

[Analysis of the process of learning in the formation of the conditioned reflex of avoidance in rats] Chalchenko GM, et al. **Fiziol Zh** 1990 Mar-Apr;36(2):77-83 (Eng. Abstr.) **(Rus)**

[Variable cycle avoidance program: systematic variation of the probability of a programmed noxious stimulus] Casalta H. **Acta Cient Venez** 1989;40(2):146-50 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Tests on a shocking device--the stun gun. Roy OZ, et al. **Med Biol Eng Comput** 1989 Jul;27(4):445-8

METHODS

Immunomodulatory effects of footshock in the rat. Jessop JJ, et al. **J Neuroimmunol** 1989 Dec;25(2-3):241-9

ELECTROSHOCK THERAPY see **ELECTROCONVULSIVE THERAPY**

ELECTROSLEEP see **ELECTRONARCOSIS**

ELECTROSURGERY

Radio-frequency catheter ablation of cardiac arrhythmias: appraisal of an evolving therapeutic modality. Huang SK. **Am Heart J** 1989 Dec;118(6):1317-23 (49 ref.)

Comparison of electrosurgery with conventional fiberotomies on rotational relapse and gingival tissue in the dog. Fricke LL, et al. **Am J Orthod Dentofacial Orthop** 1990 May; 97(5):405-12

Effect of voltage and charge of electrical ablation pulses on canine myocardium. Bardy GH, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1534-42

Electrosurgery. Its use in dermatology, with a review of its development and technologic aspects. Elliott JA Jr. **Arch Dermatol** 1966 Sep;94(3):340-50 (68 ref.)

Dental electrosurgery. Wardlaw DA. **Aust Dent J** 1990 Jun; 35(3):303

An introduction to electrosurgery units. Applegate S. **Biomed Instrum Technol** 1989 Sep-Oct;23(5):407-8

High energy laser irradiation and electric surgery for obstructive gastrointestinal cancer. Wu KL, et al. **Gastroenterol Jpn** 1989 Dec;24(6):728-31

Electrosurgical treatment of rhinophyma. Clark DP, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):831-7

Electrosurgical treatment of etretinate-resistant Darier's disease. Toombs EL, et al. **J Dermatol Surg Oncol** 1989 Dec;15(12):1277-80

Electrosurgery: advantages and disadvantages. Soderstrom RM. **Prog Clin Biol Res** 1990;323:297-304

[Transcatheter fulguration of the atrioventricular junction in supraventricular hyperkinetic arrhythmia. Immediate and long-term results] Ometto R, et al. **G Ital Cardiol** 1990 Feb;20(2):89-95 (Eng. Abstr.) **(Ita)**

[Transcatheter electric ablation in ventricular tachycardia: a real alternative or a last resource? (editorial)] Raviele A. **G Ital Cardiol** 1990 Feb;20(2):106-8 **(Ita)**

[Endocavitary transcatheter electric fulguration as a therapeutic alternative in refractory ventricular tachycardia] Santini M, et al. **G Ital Cardiol** 1990 Feb; 20(2):96-105 (Eng. Abstr.) **(Ita)**

[Experimental study of transvascular direct current treatment for intraabdominal malignant tumors] Manabe T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Nov 25; 49(11):1390-403 (Eng. Abstr.) **(Jpn)**

[Endoscopic electrosurgical section of benign esophageal strictures] Kushnirenko OIu, et al. **Khirurgiia (Mosk)** 1989 Sep;(9):124-5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Stimulation with electrosurgical current. Geddes LA, et al. **Australas Phys Eng Sci Med** 1990 Jun;13(2):63-6 (11 ref.)

Fire hazards and electrosurgery. Sebben JE. **J Dermatol Surg Oncol** 1990 May;16(5):421-4

Bacteremia following laser and conventional surgery in hamsters. Kaminer R, et al. **J Oral Maxillofac Surg** 1990 Jan;48(1):45-8

[Acute non-inflammatory renal failure after transurethral electroresection of the prostate combined with irrigation of the bladder with distilled water] Orlowska-Kowalik G, et al. **Wiad Lek** 1989 May 1;42(9):608-11 (Eng. Abstr.) **(Pol)**

INSTRUMENTATION

Bacterial transference during electrodesiccation and electrocoagulation [see comments] Bennett RG, et al. **Arch Dermatol** 1990 Jun;126(6):751-5 Comment in: Arch Dermatol 1990 Jun;126(6):805-8.

Contamination risks associated with electrosurgery [comment] Sebben JE. **Arch Dermatol** 1990 Jun; 126(6):805-8 Comment on: Arch Dermatol 1990 Jun;126(6):751-5.

Direct-current potentials created by arcing during monopolar radiofrequency electrosurgery. Tucker RD, et al. **Biomed Instrum Technol** 1990 May-Jun;24(3):212-6

Electroresection with a new endotracheally applicable resectoscope. Geissler W, et al. **Prog Pediatr Surg** 1990; 25:58–67

Transcervical resection of uterine myomas with a resectoscope. Gleich P. **Urol Clin North Am** 1990 Feb; 17(1):59–62

Use of resectoscope for colon cancer. Vaccaro JA, et al. **Urol Clin North Am** 1990 Feb;17(1):63–6

[Catheter ablation in ventricular tachycardia] Borggrefe M, et al. **Herz** 1990 Apr;15(2):103–10 (Eng. Abstr.) (Ger)

[Recanalization of the stenosed arterial wall using thermo–mechanical treatment with a 47.12 MHz catheter (pilot study of a new concept in arterial catheter therapy)] Arnold–Schmiebusch H, et al. **Vasa Suppl** 1989;27:203–5 (Ger)

[Endoscopic high–frequency electrosurgical apparatus with the microprocessor control system "Endotom–1"] Belov SV, et al. **Med Tekh** 1990 Mar–Apr;(2):41–3 (Rus)

METHODS

Large loop excision of the transformation zone (LLETZ). A new method of management for women with cervical intraepithelial neoplasia. Prendiville W, et al. **Br J Obstet Gynaecol** 1989 Sep;96(9):1054–60

A technique for blepharoplasty without incising or "puncturing" orbital septum. Bisaccia E, et al. **J Dermatol Surg Oncol** 1990 Apr;16(4):360–3

Ureteronephroscopic endopyelotomy. Clayman RV, et al. **J Urol** 1990 Aug;144(2 Pt 1):246–51; discussion 251–2

Endoscopic bronchial polypectomy by high–frequency electric surgery. Aikawa T, et al. **Jpn J Med** 1989 Sep–Oct; 28(5):628–31

[The value of fulguration of the bundle of His in the treatment of refractory supraventricular tachyarrhythmias] Jastrzebska V, et al. **Rev Med Liege** 1990 Apr;45(4):149–51 (Fre)

[Endoscopic electro– and laser surgery in diseases of the trachea and bronchi] Rusakov MA, et al. **Grud Serdechnososudistaia Khir** 1990;(1):58–62 (Eng. Abstr.) (Rus)

[Aortocoronary bypass and electrodestruction of the atrioventricular node in a patient with ischemic heart disease complicated by paroxysmal atrial fibrillation] Vinogradov AG, et al. **Vestn Khir** 1990 Mar;144(3):35–6 (Rus)

ELECTROTHERAPY see **ELECTRIC STIMULATION THERAPY**

ELECTROVERSION, CARDIAC see **ELECTRIC COUNTERSHOCK**

ELEDOISIN

ADMINISTRATION & DOSAGE

Sodium and water intake of sheep, rabbits and cattle during ICV infusion of eledoisin. Tarjan E, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):823–8

ANALYSIS

Vasoactive peptides in venoms. Pisano JJ. **Fed Proc** 1968 Jan–Feb;27(1):58–62

METABOLISM

Quantitative autoradiographic distribution of multiple neurokinin binding sites in rat spinal cord. Yashpal K, et al. **Brain Res** 1990 Jan 8;506(2):259–66

PHARMACOLOGY

Eledoisin and lacrimal secretion in the rabbit. Rossi SR, et al. **Curr Eye Res** 1990 Mar;9(3):273–6

Sensitivity of spontaneously hypertensive and of Wistar Kyoto rats to the antidipsogenic action of eledoisin. Pompei P, et al. **Regul Pept** 1990 Mar 27;28(1):119–29

PHYSIOLOGY

Immunoblockade by a specific tachykinin antiserum of the non–cholinergic contractile responses in the guinea–pig isolated bronchus. Maggi CA, et al. **J Auton Pharmacol** 1990 Jun;10(3):173–9

ELEMENTARY PARTICLES

Dynamic pion irradiation of unresectable soft tissue sarcomas. Greiner RH, et al. **Int J Radiat Oncol Biol Phys** 1989 Nov; 17(5):1077–83

On the use of the pion stopping distribution and the lesion additivity concept for the calculation of effective doses in pion treatment planning. Lam GK. **Phys Med Biol** 1990 Jun;35(6):731–40

The effect of high Z trace elements on negative pion capture and dosimetry. Smith KR, et al. **Phys Med Biol** 1989 Oct; 34(10):1509–13

Proceedings of the international symposium of the EORTC–Heavy Particle Therapy Group. Villigen, Switzerland, 13–14 March 1987. **Radiother Oncol** 1990 Jan; 17(1):1–80

Preclinical evaluation of pions in vivo: experience at TRIUMF. Chaplin DJ, et al. **Radiother Oncol** 1990 Jan; 17(1):7–15

Pion therapy at TRIUMF. Treatment results for astrocytoma grades 3 and 4: a pilot study. Goodman GB, et al. **Radiother Oncol** 1990 Jan;17(1):21–8

Anaplastic astrocytoma and glioblastoma: pion irradiation with the dynamic conformation technique at the Swiss Institute for Nuclear Research (SIN). Greiner R, et al. **Radiother Oncol** 1990 Jan;17(1):37–46

Radiobiology of pions in comparison with other heavy particles. Raju MR, et al. **Radiother Oncol** 1990 Jan; 17(1):1–5 (15 ref.)

The medical heavy ion therapy project at the Gesellschaft für Schwerionenforschung facility in Darmstadt. Gademann G, et al. **Strahlenther Onkol** 1990 Jan; 166(1):34–9

Pion irradiation at Paul Scherrer Institute. Results of dynamic treatment of unresectable soft tissue sarcoma. Greiner R, et al. **Strahlenther Onkol** 1990 Jan;166(1):30–3

THERAPEUTIC USE

International Workshop on Particle Therapy. Annual meeting of the EORTC Heavy Particle Therapy Group. October 28–29, 1988, Essen. Proceedings. **Strahlenther Onkol** 1990 Jan;166(1):1–115

Repair inhibition in tumours irradiated with fast protons and negative pions. Jüling–Pohlit L, et al. **Strahlenther Onkol** 1990 Jan;166(1):6–9

Glimpses of particle radiobiology. Raju MR. **Strahlenther Onkol** 1990 Jan;166(1):2–5

ELEMENTS

National survey of elements and radioactivity in municipal incinerator ashes. Mumma RO, et al. **Arch Environ Contam Toxicol** 1990 May–Jun;19(3):399–404

Distributions of elements in the human retinal pigment epithelium. Ulshafer RJ, et al. **Arch Ophthalmol** 1990 Jan; 108(1):113–7

The distribution of elements in the tissues of Watanabe Heritable Hyperlipidemic Rabbits. Allain P, et al. **Biol Trace Elem Res** 1989 Mar;19(3):153–60

Effects of etretinate on the distribution of elements in rats. Krari N, et al. **Biol Trace Elem Res** 1989 Oct;22(1):113–8

The multielemental analysis of bone. A review. Zwanziger H. **Biol Trace Elem Res** 1989 Mar;19(3):195–232 (227 ref.)

Analysis of organic and inorganic components of inhalable particles in the atmosphere. Cao SR, et al. **Biomed Environ Sci** 1988 Aug;1(2):130–7

Diabetes is not associated with a change in the elemental composition of the pancreatic B cell in diabetic C57BL KsJ–db/db mice. Juntti–Berggren L, et al. **Biosci Rep** 1990 Apr;10(2):217–23

Elemental analysis of hair among hydrofluoric acid exposed workers. Kono K, et al. **Int Arch Occup Environ Health** 1990;62(1):85–8

Effect of short time denervation on intracellular elemental content and fibre atrophy pattern of slow and fast twitch rat muscle. Wroblewski R, et al. **J Submicrosc Cytol Pathol** 1989 Oct;21(4):685–90

Interactions between lead and essential elements: a review. Miller GD, et al. **Neurotoxicology** 1990 Spring;11(1):99–119 (137 ref.)

Accumulation and distribution of ions of group–IIIA elements in the tissues and eggs of the Japanese quail. Robinson GA, et al. **Poult Sci** 1990 Feb;69(2):300–6

Experiences in the field of elemental analysis in vivo. Mattson S, et al. **Radiobiol Radiother (Berl)** 1990;31(2):203–7 (21 ref.)

Microprobe analysis of element distribution in bovine extracellular matrices and muscle. Engel MB, et al. **Scanning Microsc** 1989 Sep;3(3):887–92; discussion 892–4

Multielement analysis of biological materials by particle–induced X–ray emission (PIXE). Maenhaut W. **Scanning Microsc** 1990 Mar;4(1):43–59; discussion 59–62 (121 ref.)

Feeding ecology of the stone and pine marten revealed by element analysis of their skeletons. Grupe G, et al. **Sci Total Environ** 1990 Jan;90:227–40

[Elemental microanalysis of the CNS using X rays] Elejalde MV, et al. **Neurologia** 1987 Jul–Aug;2(4):162–5 (Eng. Abstr.) (Spa)

ELEPHANTIASIS see under **LYMPHEDEMA**

ELEPHANTIASIS, FILARIAL see under **FILARIASIS**

ELEPHANTS

Rearrangement of the distal pocket accompanying E7 His——Gln substitution in elephant carbonmonoxy– and oxymyoglobin: 1H NMR identification of a new aromatic residue in the heme pocket. Yu LP, et al. **Biochemistry** 1990 Mar 13;29(10):2578–85

Preliminary study on the antinociceptive effect of elephant beta–endorphin. Wong CL, et al. **Clin Exp Pharmacol Physiol** 1990 Jan;17(1):33–7

Odontoma in an African elephant (Loxodonta africana). Raubenheimer EJ, et al. **J S Afr Vet Assoc** 1989 Sep; 60(3):149–50

Serological evidence of herpesvirus infection in captive Asian elephants (Elephas maximus). Metzler AE, et al. **J Wildl Dis** 1990 Jan;26(1):41–9

Collection, motility and storage of spermatozoa from the African elephant Loxodonta africana. Jones RC. **Nature** 1973 May 4;243(5401):38–9

Acute and fatal herpesvirus infection in a young Asian elephant (Elephas maximus). Ossent P, et al. **Vet Pathol** 1990 Mar;27(2):131–3

ANATOMY & HISTOLOGY

The thickness, shape and arrangement of elastic fibres within the nuchal ligament from various animal species. Bianchi M. **Anat Anz** 1989;169(1):53–66

Topography of the retina in the elephant Loxodonta africana. Stone J, et al. **Brain Behav Evol** 1989;34(2):84–95

Estimation of the total surface area in Indian elephants (Elephas maximus indicus). Sreekumar KP, et al. **Vet Res Commun** 1990;14(1):5–17

BLOOD

Platelet aggregation in the Asian elephant is not dependent on thromboxane B2 production. Gentry PA, et al. **Comp Biochem Physiol [A]** 1989;94(1):47–51

Longitudinal study of haematological and biochemical constituents in blood of the Asian elephant (Elephas maximus). Niemuller C, et al. **Comp Biochem Physiol [A]** 1990;96(1):131–4

Spectroscopic and kinetic aspects of Elephas maximus hemoglobin. Stephanos JJ, et al. **Eur J Biochem** 1990 Apr 20;189(1):185–91

GENETICS

Science gives ivory a sense of identity [news] Marx J. **Science** 1989 Dec 1;246(4934):1120–1

METABOLISM

Elephant pituitary gonadotropins. McFarlane JR, et al. **Gen Comp Endocrinol** 1990 Aug;79(2):193–200

PHYSIOLOGY

The brain in aged elephants [letter; comment] Cole G, et al. **J Neuropathol Exp Neurol** 1990 Mar;49(2):190–2 Comment on: J Neuropathol Exp Neurol 1988 Nov;47(6):629–41.

ELEVATORS AND ESCALATORS see under **FACILITY DESIGN AND CONSTRUCTION**

ELIGIBILITY DETERMINATION

see related
DISABILITY EVALUATION

The impact of the AIDS Drug Reimbursement Program. Warren JL, et al. **Am Pharm** 1989 Sep;NS29(9):22–4

An open letter to the Georgia Medical Care Foundation and the Department of Medical Assistance [editorial] Anders DL. **J Med Assoc Ga** 1990 May;79(5):285–6

Administrative and control procedures. Browdy JD. **Top Health Care Financ** 1989 Winter;16(2):45–51

[Forensic evaluation of physical damage in the early Middle Ages—a comparison with current occupational disability guidelines] Feldmann H. **Laryngorhinootologie** 1990 Mar; 69(3):166–70 (Eng. Abstr.) (Ger)

ECONOMICS

[Modernization of the welfare system (letter)] Balló R. **Orv Hetil** 1990 Apr 1;131(13):720–2 (Hun)

LEGISLATION & JURISPRUDENCE

Recent legislative and court activities relating to the SSI and SSDI programs for the mentally ill. Okpaku SO, et al. **Hosp Community Psychiatry** 1990 May;41(5):560–2

Workers' compensation and psychological stress claims in North American law: a microcosmic model of systemic discrimination. Lippel K. **Int J Law Psychiatry** 1989; 12(1):41–70 (115 ref.)

[The legal principles of outpatient management of children with heart diseases] Briedigkeit W, et al. **Kinderarztl Prax** 1989 Jul;57(7):345–9 (Ger)

[Social medicine analysis: forensic responsibility in primary care: patients, characteristics of the consultation and referring physicians] Piechowiak H, et al. **Off Gesundheitswes** 1989 Nov;51(11):661–6 (Eng. Abstr.) (Ger)

[Analysis of social medicine—quality of information and decisions in 360 expert assessments of work incapacity] Piechowiak H, et al. **Off Gesundheitswes** 1990 Jan; 52(1):30–5 (Eng. Abstr.) (Ger)

[Medical rehabilitation of disability insurance—determination of the status and future perspectives] Wille G. **Off Gesundheitswes** 1989 Aug–Sep;51(8–9):435–41 (Eng. Abstr.) (Ger)

[The disability concept in private accident insurance] Lehmann R. **Versicherungsmedizin** 1989 Nov 1; 41(6):197–200 (9 ref.) (Eng. Abstr.) (Ger)

METHODS

Patterns of take–up of the Family Fund, the characteristics of eligible non–claimants and the reasons for not claiming. Lawton D, et al. **Child Care Health Dev** 1990 Jan–Feb; 16(1):35–53

Private long-term care insurance: after coverage restrictions is there anything left? Wilson CE, et al. **Inquiry** 1989 Winter;26(4):493–507

[Duration of occupational incapacity in disability procedures] Gottschall E, et al. **Z Arztl Fortbild (Jena)** 1989; 83(20):1009–12 **(Ger)**

STANDARDS

Recruitment in the Hypertension Prevention trial. Hypertension Prevention Trial Research Group. Borhani NO, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):30S–39S

Baseline characteristics in the Hypertension Prevention Trial. Hypertension Prevention Trial Research Group. Brown KM, et al. **Controlled Clin Trials** 1989 Sep;10(3 Suppl):40S–64S

TRENDS

[Development of the evaluation of physician-related work disability statistics of the social insurance administration of the federal trade union in the public health service] Stach H, et al. **Z Gesamte Hyg** 1989 Jun;35(6):372–5 (Eng. Abstr.) **(Ger)**

ELIMINATIVE BEHAVIOR, ANIMAL see under **BEHAVIOR, ANIMAL**

ELISA see **ENZYME-LINKED IMMUNOSORBENT ASSAY**

ELLAGIC ACID see under **BENZOPYRANS**

ELLIPTICINES see under **ALKALOIDS**

ELLIPTOCYTOSIS, HEREDITARY

see related
ANEMIA, SIDEROBLASTIC

BLOOD

Spectrin modifications in a heterozygous case of both hereditary elliptocytosis and beta-thalassemia. Streichman S, et al. **Am J Hematol** 1990 Feb;33(2):123–7

Structural and functional heterogeneity of alpha spectrin mutations involving the spectrin heterodimer self-association site: relationships to hematologic expression of homozygous hereditary elliptocytosis and hereditary pyropoikilocytosis. Coetzer T, et al. **Blood** 1990 Jun 1; 75(11):2235–44

Alteration of the erythrocyte membrane skeletal ultrastructure in hereditary spherocytosis, hereditary elliptocytosis, and pyropoikilocytosis. Liu SC, et al. **Blood** 1990 Jul 1;76(1):198–205

[Family of hereditary elliptocytosis with abnormalities of spectrin function (Sp alpha I/74)] Okino E, et al. **Rinsho Ketsueki** 1989 Jul;30(7):1047–51 (Eng. Abstr.) **(Jpn)**

GENETICS

Hereditary pyropoikilocytosis and elliptocytosis in a white French family with the spectrin alpha I/74 variant related to a CGT to CAT codon change (Arg to His) at position 22 of the spectrin alpha I domain. Garbarz M, et al. **Blood** 1990 Apr 15;75(8):1691–8

Assignment of Sp alpha I/74 hereditary elliptocytosis to the alpha- or beta-chain of spectrin through in vitro dimer reconstitution. Pothier B, et al. **Blood** 1990 May 15; 75(10):2061–9

Glucose-6-phosphate dehydrogenase deficiency and hereditary ovalocytosis in the Ok Tedi impact region of Papua New Guinea. Schuurkamp GJ, et al. **Hum Biol** 1989 Jun;61(3):387–406

Molecular analysis of insertion/deletion mutations in protein 4.1 in elliptocytosis. II. Determination of molecular genetic origins of rearrangements. Conboy J, et al. **J Clin Invest** 1990 Aug;86(2):524–30

Molecular analysis of insertion/deletion mutations in protein 4.1 in elliptocytosis. I. Biochemical identification of rearrangements in the spectrin/actin binding domain and functional characterizations. Marchesi SL, et al. **J Clin Invest** 1990 Aug;86(2):516–23

Two elliptocytogenic alpha I/74 variants of the spectrin alpha I domain. Spectrin Culoz (GGT——GTT; alpha I 40 Gly——Val) and spectrin Lyon (CTT——TTT; alpha I 43 Leu——Phe). Morlé L, et al. **J Clin Invest** 1990 Aug; 86(2):548–54

Sequence and exon-intron organization of the DNA encoding the alpha I domain of human spectrin. Application to the study of mutations causing hereditary elliptocytosis. Sahr KE, et al. **J Clin Invest** 1989 Oct; 84(4):1243–52

Point mutation in the beta-spectrin gene associated with alpha I/74 hereditary elliptocytosis. Implications for the mechanism of spectrin dimer self-association. Tse WT, et al. **J Clin Invest** 1990 Sep;86(3):909–16

Homozygous haemoglobin E in association with hereditary ovalocytosis. George E, et al. **Med J Malaysia** 1989 Sep; 44(3):255–8

ELLIS-VAN CREVELD SYNDROME

[The Ellis-van Creveld syndrome] Jelić N, et al. **Lijec Vjesn** 1989 Aug;111(8):270–2 (Eng. Abstr.) **(Scr)**

[Ellis van Creveld syndrome] Salvador Amores AM, et al. **An Esp Pediatr** 1990 May;32(5):445–50 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

[Asphyxiating thoracic dysplasia associated with hepatic ductal hypoplasia, agenesis of the corpus callosum and Dandy-Walker syndrome] Trabelsi M, et al. **Pediatrie** 1990; 45(1):35–8 (24 ref.) (Eng. Abstr.) **(Fre)**

[The Ellis-van Creveld syndrome from the aspect of the pediatric cardiologist] Kanáliková K, et al. **Cesk Pediatr** 1989 Aug;44(8):491–3 **(Slo)**

DIAGNOSIS

Picture of the month. Ellis-van Creveld syndrome. Gellis SS, et al. **Am J Dis Child** 1967 Aug;114(2):169–70

Ellis-van creveld syndrome, Jeune syndrome, and renal-hepatic-pancreatic dysplasia: separate entities or disease spectrum? Brueton LA, et al. **J Med Genet** 1990 Apr;27(4):252–5

PATHOLOGY

Ellis Van Creveld syndrome. Mody P, et al. **Indian Pediatr** 1989 Oct;26(10):1046–9

RADIOGRAPHY

Ellis-Van Creveld syndrome: description of four cases. Orthopaedic aspects. Pinelli G, et al. **Ital J Orthop Traumatol** 1990 Mar;16(1):113–21

[Clinico-roentgenologic semeiotics of chondroectodermal dysplasia (Ellis-van Creveld syndrome)] Prokopenko OP. **Vestn Rentgenol Radiol** 1989 Nov-Dec;(6):51–6 (Eng. Abstr.) **(Rus)**

ELONGATION FACTOR TU see **PEPTIDE ELONGATION FACTOR TU**

EMACIATION

COMPLICATIONS

Diencephalic syndrome of emaciation in an adult associated with a suprasellar craniopharyngioma—a case report. Sharma RR, et al. **Br J Neurosurg** 1990;4(1):77–80

ETIOLOGY

[Hypothalamic glioma with diencephalic syndrome and following precocious puberty—a case report] Baba H, et al. **No To Shinkei** 1989 Oct;41(10):1029–35 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Russel's syndrome: diencephalic tumor in a child] Da Motta LA, et al. **Arq Neuropsiquiatr** 1990 Mar;48(1):107–12 (Eng. Abstr.) **(Por)**

GENETICS

GFAP RNA increases during a wasting state in old mice. Goss JR, et al. **Exp Neurol** 1990 Jun;108(3):266–8

THERAPY

[The influence of total parenteral nutrition on the circadian rhythm of the heart rate in elderly patients with wasting diseases] Shimamoto Y, et al. **Nippon Ronen Igakkai Zasshi** 1989 Jul;26(4):353–60 (Eng. Abstr.) **(Jpn)**

VETERINARY

Hexamitiasis and an emaciation syndrome in pheasant poults: clinical aspects and differential diagnosis. Swarbrick O. **Vet Rec** 1990 Mar 17;126(11):265–7

EMBALMING

see related
MUMMIES

The stability of several compounds in formalin fixed tissues and formalin-blood solutions. Winek CL, et al. **Forensic Sci Int** 1990 Feb;44(2–3):159–68

METHODS

Phenoxyethanol as a nontoxic preservative in the dissection laboratory. Wineski LE, et al. **Acta Anat (Basel)** 1989; 136(2):155–8

EMBLEMS AND INSIGNIA

Badges of the dental profession. American Dental Society of London. Hancock SA. **Br Dent J** 1989 Aug 19;167(4):152

Badges of the dental profession. The International Organization for Standardisation. Hancocks S. **Br Dent J** 1990 Jun 23;168(12):492

Badges of the dental profession. The Annual Conference of Local Dental Committees. Hancocks SA. **Br Dent J** 1989 Oct 21;167(8):293

Medical symbols: Shou. Shampo MA, et al. **Mayo Clin Proc** 1990 Jul;65(7):990

Medical symbols: lamp of knowledge (life). Shampo MA, et al. **Mayo Clin Proc** 1990 Sep;65(9):1192

The caduceus [letter] Eich WF. **South Med J** 1989 Nov; 82(11):1455

The phoenix: symbol of rebirth and the eternal return. Kahan BD. **Transplant Proc** 1990 Jun;22(3):1097–103

HISTORY

The true symbol of medicine: one snake or two? Carver L. **J Med Assoc Ga** 1989 Dec;78(12):809–10

Medical symbols: the caduceus. Shampo MA, et al. **Mayo Clin Proc** 1990 Aug;65(8):1159

Our seal of approval. Hutner GR. **N J Med** 1989 Dec; 86(12):959–61

The nursing pin: symbol of 1,000 years of service. Rode MW. **Nurs Forum** 1989;24(1):15–7

The caduceus [letter; comment] Vincent LM. **South Med J** 1989 Nov;82(11):1454–5 Comment on: South Med J 1988 Sep;81(9):1155–61.

[Our surgical heritage. Dresden surgical insignia] Diettrich H, et al. **Zentralbl Chir** 1989;114(13):864–8 **(Ger)**

EMBOLIC TUMOR CELLS see **NEOPLASM CIRCULATING CELLS**

EMBOLISM

A simple method of producing experimental embolism and infarction. Miles RM, et al. **Am Surg** 1966 Mar;32(3):170–6

[Long-term follow up of a case of superior mesenteric artery embolism] Iso A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Aug; 86(8):1697–700 **(Jpn)**

[Arterial embolisms of the extremities] Solaković E. **Med Arh** 1988;42(5–6):311–6 (Eng. Abstr.) **(Scr)**

BLOOD

Atheromatous embolization as a cause of increasing creatinine levels in a renal transplant patient. Jennings WC, et al. **Transplant Proc** 1990 Feb;22(1):279

CHEMICALLY INDUCED

Development of cholesterol embolization syndrome after intravenous streptokinase for acute myocardial infarction. Queen M, et al. **Am J Cardiol** 1990 Apr 15;65(15):1042–3

COMPLICATIONS

Reversible nephrotic range proteinuria and renal failure in atheroembolic renal disease. Williams HH, et al. **Am J Med Sci** 1990 Jan;299(1):58–61

Fibrocartilaginous emboli to the spinal cord: a case report. Bockenek WL, et al. **Arch Phys Med Rehabil** 1990 Sep; 71(10):754–7 (13 ref.)

Hypertrophic cardiomyopathy evolving into a hypokinetic and dilated left ventricle: coronary embolization as a probable pathogenetic mechanism. Gravanis MB, et al. **Clin Cardiol** 1990 Jul;13(7):500–5

Coronary embolism causing myocardial infarction. Kraus PA, et al. **Intensive Care Med** 1990;16(3):215–6

Fibrocartilaginous emboli to the spinal cord: a review of the literature. Bockenek WL, et al. **J Am Paraplegia Soc** 1990 Apr;13(2):18–23 (26 ref.)

Intervertebral disc embolization resulting in spinal cord infarction. Case report. Kestle JR, et al. **J Neurosurg** 1989 Dec;71(6):938–41

Infarcts with a cardiac source of embolism in the NINCDS Stroke Data Bank: historical features. Kittner SJ, et al. **Neurology** 1990 Feb;40(2):281–4

Cardiac embolism [letter] Lodder J. **Neurology** 1990 Aug; 40(8):1323

Quadrantic venous-stasis retinopathy secondary to an embolic branch retinal artery obstruction. Duker JS, et al. **Ophthalmology** 1990 Feb;97(2):167–70

Are hypertension or cardiac embolism likely causes of lacunar infarction? Lodder J, et al. **Stroke** 1990 Mar; 21(3):375–81

[Acute occlusion of the renal artery caused by an embolism of cardiac origin. Treatment by in situ thrombolysis] Camilleri JF, et al. **Arch Mal Coeur** 1989 Jul-Aug; 82(8):1473–6 (Eng. Abstr.) **(Fre)**

[Renal cholesterol embolism. Apropos of 13 cases] Fleury D, et al. **Presse Med** 1990 Jun 2;19(22):1040–4 (Eng. Abstr.) **(Fre)**

[A case of acute abdomen. Intestinal infarction due to superior mesenteric artery embolism] Inoue Y. **Rinsho Hoshasen** 1989 Nov;34(12):1487–8 **(Jpn)**

[Myocardiopathy, alcoholism and systemic embolism (letter)] Estruch R, et al. **Rev Clin Esp** 1990 Apr;186(7):358 **(Spa)**

DIAGNOSIS

Transesophageal echocardiography in the detection of intracardiac embolic sources in patients with transient ischemic attacks. Pop G, et al. **Stroke** 1990 Apr;21(4):560–5

[Peroperative detection of embolizing material in the heart. The importance of peroperative transesophageal echocardiography] Kozáková M, et al. **Cas Lek Cesk** 1990 Mar 16;129(11):337–9 (Eng. Abstr.) **(Cze)**

[Transesophageal, anatomic and Doppler echocardiography. Technic, indications, interpretation (published erratum

appears in Ann Cardiol Angeiol (Paris) 1989 Oct;38(8):453)] Scheublé C, et al. **Ann Cardiol Angeiol (Paris)** 1989 Sep 30;38(7 Pt 2):463–76 (Eng. Abstr.) (Fre)

DRUG THERAPY

Future role of thrombolytic therapy in emergency medicine. Bresler MJ. **Ann Emerg Med** 1989 Dec;18(12):1331–8 (41 ref.)

Intra-arterial low-dose streptokinase infusion for superior mesenteric artery embolus. Hillers TK, et al. **Can Med Assoc J** 1990 May 15;142(10):1087–8

Renal artery embolism: thrombolysis with recombinant tissue-type plasminogen activator. Mügge A, et al. **J Intern Med** 1990 Sep;228(3):279–86 (22 ref.)

Experience with PGE1 in patients with postoperative trashfoot. Gruss JD. **Vasa Suppl** 1989;28:57–60

EPIDEMIOLOGY

Valvular heart disease, infected valves and prosthetic heart valves. Dalen JE. **Am J Cardiol** 1990 Feb 2;65(6):29C–31C (13 ref.)

111In platelet imaging of left ventricular thrombi. Predictive value for systemic emboli [see comments] Stratton JR, et al. **Circulation** 1990 Apr;81(4):1182–9 Comment in: Circulation 1990 Apr;81(4):1419–21.

Thromboembolism in mitral valve prolapse [letter] Cheng TO. **J Intern Med** 1990 Sep;228(3):291

ETIOLOGY

Echocardiography in diagnostic assessment of peripheral arterial embolization. Bar-El Y, et al. **Am Heart J** 1990 May;119(5):1090–4

Aortic thrombosis and peripheral embolization after thoracic gunshot wound diagnosed by transesophageal echocardiography. Bergin PJ. **Am Heart J** 1990 Mar;119(3 Pt 1):688–90

Atheroembolism; a late complication of arteriosclerosis. Carvajal JA. **Am Heart J** 1968 Feb;75(2):278

Risk for systemic embolization of atrial fibrillation without mitral stenosis. Cabin HS, et al. **Am J Cardiol** 1990 May 1;65(16):1112–6

Distal embolization as a presenting symptom of aortic aneurysms. Baxter BT, et al. **Am J Surg** 1990 Aug; 160(2):197–201

Tissue plasminogen activator and cholesterol crystal embolization [letter] Bhardwaj M, et al. **Ann Intern Med** 1989 Oct 15;111(8):687–8

Coronary embolism following mitral valve replacement. Intraoperative diagnosis and successful embolectomy. Attai LA, et al. **Ann Thorac Surg** 1974 Aug;18(2):191–4

Septic peripheral embolization from bacterial and fungal endocarditis. Freischlag JA, et al. **Ann Vasc Surg** 1989 Oct; 3(4):318–23 (17 ref.)

Primary atherosclerotic aneurysm of the profunda femoris artery associated with distal embolization. Markland CG. **Ann Vasc Surg** 1989 Oct;3(4):389–91

Left ventricular thrombus and systemic emboli complicating the cardiomyopathy of Duchenne's muscular dystrophy. Gaffney JF, et al. **Arch Neurol** 1989 Nov;46(11):1249–52

Retinal artery embolism following cardiac catheterization [letter; comment] Singh G. **Arch Ophthalmol** 1990 Apr; 108(4):477 Comment on: Arch Ophthalmol 1989 Mar;107(3):317.

The possibility of distal embolization from a femoral-popliteal prosthesis above the knee. A consideration against its routine use in this position. Friedman SG, et al. **Arch Surg** 1990 May;125(5):668–70

Multiple emboli in hydatid disease. Shields DA. **BMJ** 1990 Jul 28;301(6745):213–4

Multiple microemboli after disintegration of clot during thrombolysis for acute myocardial infarction. Stafford PJ, et al. **BMJ** 1989 Nov 25;299(6711):1310–2

Arterial microembolisation: an unusual presentation of dilated cardiomyopathy. Gillespie RL, et al. **Br Heart J** 1990 Jan; 63(1):63–5

Should patients with atrial fibrillation be anticoagulated prior to and chronically following cardioversion? Stein B, et al. **Cardiovasc Clin** 1990;21(1):231–47; discussion 248–9 (70 ref.)

Percutaneous management of emboli associated with hot tip laser-assisted angioplasty. Matsumoto AH, et al. **Cardiovasc Intervent Radiol** 1990 Apr–May;13(2):71–4

Distal embolization during mechanical thrombolysis: rotational thrombectomy vs. balloon angioplasty. Titus BG, et al. **Cathet Cardiovasc Diagn** 1990 Apr;19(4):279–85

111In platelet scintigraphy and risk stratification for embolization from chronic left ventricular thrombi [comment] Vandenberg BF. **Circulation** 1990 Apr; 81(4):1419–21 Comment on: Circulation 1990 Apr;81(4):1182–9.

Multiple myocardial infarctions associated with atheromatous emboli after PTCA of saphenous vein grafts. A clinicopathologic correlation. Trono R, et al. **Cleve Clin J Med** 1989 Sep;56(6):581–4

Vascular complication of knee arthroplasty under tourniquet. A case report. Hagan PF, et al. **Clin Orthop** 1990 Aug; (257):159–61

The complication rate of percutaneous peripheral balloon angioplasty. Belli AM, et al. **Clin Radiol** 1990 Jun; 41(6):380–3

Unusual cause of recurrent arterial embolism: floating thrombus in the aortic arch surgically removed under hypothermic cardiocirculatory arrest. Sadony V, et al. **Eur J Cardiothorac Surg** 1988;2(6):469–71

The pathology of cholesterol embolism arising as a complication of intra-aortic catheterization. Kennedy A, et al. **Histopathology** 1989 Nov;15(5):515–21

Fetal parts embolization during termination of pregnancy: report of a case. Saltzman R, et al. **Hum Pathol** 1990 Jan; 21(1):117–8

Left atrial dimension and risk of systemic embolism in patients with a prosthetic heart valve. Department of Veterans Affairs Cooperative Study on Valvular Heart Disease. Burchfiel CM, et al. **J Am Coll Cardiol** 1990 Jan;15(1):32–41

Atherothrombotic microembolism of the lower extremities (the blue toe syndrome) from atherosclerotic non-aneurysmal aortic plaques. Benvegna S, et al. **J Cardiovasc Surg (Torino)** 1990 Jan–Feb;31(1):87–91

The significance of retinal emboli. Younge BR. **J Clin Neuro Ophthalmol** 1989 Sep;9(3):190–4 (7 ref.)

Placental emboli from a fetus papyraceous. Wagner DS, et al. **J Pediatr Surg** 1990 May;25(5):538–42

Influence of oxygenator type on the prevalence and extent of microembolic retinal ischemia during cardiopulmonary bypass. Assessment by digital image analysis. Blauth CI, et al. **J Thorac Cardiovasc Surg** 1990 Jan;99(1):61–9

Cholesterol embolization after treatment with tissue plasminogen activator [letter] Shapiro LS. **N Engl J Med** 1989 Nov 2;321(18):1270

Hypodermic needle embolization to the heart [see comments] Stern MF, et al. **N Y State J Med** 1990 Jul;90(7):368–71 Comment in: N Y State J Med 1990 Jul;90(7):347–8.

Systemic embolization from left atrial ball thrombus. The case for early surgical intervention. Wrisley D, et al. **N Y State J Med** 1990 Feb;90(2):74–5

Coronary arteriography as a cause of disseminated cholesterol emboli. Peten E, et al. **Nephrol Dial Transplant** 1990;5(2):155–7 (27 ref.)

Cholesterol emboli syndrome following cardiac catheterization. Freund NS. **Postgrad Med** 1990 Apr; 87(5):55–60

Thyrocardiotoxic embolic syndrome. Haynes JH 3d, et al. **South Med J** 1989 Oct;82(10):1292–3

Bullet emboli to the systemic and venous circulation. Michelassi F, et al. **Surgery** 1990 Mar;107(3):239–45 (52 ref.)

[Staphylococcus aureus endocarditis with large vegetation and emboli: report of a case] Hsu HS, et al. **Acta Paediatr Sin** 1989 Mar–Apr;30(2):123–8 (Eng. Abstr.) (Chi)

[Significance of left atrial thrombus in prediction of systemic arterial embolization in rheumatic mitral valve disease: a two-dimensional echocardiographic study] Lin JL, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Sep;88(9):955–60 (Chi)

[Isolated aneurysm of the iliac artery as a source of postoperative peripheral embolism] Fára P, et al. **Rozhl Chir** 1989 Oct;68(10):658–62 (Eng. Abstr.) (Cze)

[Arterial embolism of the limbs in infectious endocarditis of the heart valves] de Gennes C, et al. **Presse Med** 1990 Jun 23;19(25):1177–81 (Eng. Abstr.) (Fre)

[Digital microembolism after thrombosis of an arteriovenous fistula (letter)] Lacombe M. **Presse Med** 1989 Oct 7; 18(31):1525 (Fre)

[Clinical significance of the source of the embolism in acute occlusion of arteries of the extremities] Paes EH, et al. **Chirurg** 1990 Apr;61(4):323–5 (Ger)

[Cardiac thrombosis and embolism in patients having died of chronic Chagas cardiopathy] Arteaga-Fernández E, et al. **Arq Bras Cardiol** 1989 Apr;52(4):189–92 (Eng. Abstr.) (Por)

[Embolism of the mesenteric arteries in patients with acute occlusion of the aorta and main arteries of the limbs] Stepanov NV, et al. **Khirurgiia (Mosk)** 1989 Sep;(9):44–7 (Eng. Abstr.) (Rus)

[Sudden deafness and mitral prolapse] Sancho Alvarez A, et al. **Acta Otorrinolaringol Esp** 1988 Jul–Aug;39(4):281–3 (Eng. Abstr.) (Spa)

[Ulcerated plaque in the terminal aorta as a source of recurrent embolism in the young patient] Barba A, et al. **Angiologia** 1990 Mar–Apr;42(2):59–62 (Eng. Abstr.) (Spa)

IMMUNOLOGY

Cardiogenic brain embolism and lupus anticoagulant. Young SM, et al. **Ann Neurol** 1989 Sep;26(3):390–2

METABOLISM

An increase in myocardial beta-adrenoceptors to compensate for postischaemic dysfunction following coronary micro-embolisation in dogs. Hori M, et al. **Cardiovasc Res** 1989 May;23(5):424–31

PATHOLOGY

Massive fat and necrotic bone marrow embolization in a previously undiagnosed patient with sickle cell disease. Garza JA. **Am J Forensic Med Pathol** 1990 Mar;11(1):83–8

Unilateral cutaneous emboli of Aspergillus. Watsky KL, et al. **Arch Dermatol** 1990 Sep;126(9):1214–7

Marrow embolus to posterior ciliary vessel. Kalina PH, et al. **Arch Pathol Lab Med** 1990 Sep;114(9):979–80

Myocardial stiffness and reparative fibrosis following coronary embolisation in the rat. Carroll EP, et al. **Cardiovasc Res** 1989 Aug;23(8):655–61

Intraglomerular embolization by tubular cells. Tóth T, et al. **Int Urol Nephrol** 1989;21(6):643–7

Cartilage embolism of spinal cord [letter] Banerjee AK, et al. **J Neurol Neurosurg Psychiatry** 1989 Oct;52(10):1201–2

[Cartilage tissue embolism as a cause of myelomalacia. A case report and review of the literature] Barz H, et al. **Pathologe** 1989 Sep;10(5):300–5 (32 ref.) (Ger)

[Cholesterol crystal embolization, a rare cause of postoperative ischemic colitis] Pfeifer M, et al. **Vasa** 1990; 19(1):54–8 (Eng. Abstr.) (Ger)

PHYSIOPATHOLOGY

Epidural pressure and cerebral metabolism in rat internal carotid artery occlusion by silicone cylinder embolus. Takeda T, et al. **Adv Neurol** 1990;52:547

Effect of placental embolization on the umbilical arterial velocity waveform in fetal sheep. Morrow RJ, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):1055–60

Cardiac output in patients with acute lower limb ischaemia of presumed embolic origin—a predictor of severity and outcome? Jivegård L, et al. **Eur J Vasc Surg** 1990 Aug; 4(4):401–7

PREVENTION & CONTROL

[State of the ileocaval segment after implantation of the REPTEL antiembolic cava filter] Iablokov EG, et al. **Grud Serdechnososudistaia Khir** 1990;(4):36–8 (Eng. Abstr.) (Rus)

[Assessment of the results of implantation of an anti-embolic cava-filter using the method of ultrasonic scanning] Iablokov EG, et al. **Klin Khir** 1989;(7):28–31 (Eng. Abstr.) (Rus)

RADIOGRAPHY

The embolic type of popliteal entrapment syndrome. Haddad M, et al. **Vasa** 1990;19(1):63–7

[Ischemic optic neuropathy (apoplexia papillae) and ischemic micro-infarcts of the retinal nerve fiber layer in extreme internal carotid artery kinking] Schönherr U, et al. **Klin Monatsbl Augenheilkd** 1990 Jul;197(1):9–13 (Eng. Abstr.) (Ger)

SURGERY

Possibilities in prevention of intestinal and somatic death. Bergan JJ. **Am J Dig Dis** 1967 Aug;12(8):850–2

Candida endocarditis with saddle embolism: a successful surgical intervention. Kawamoto T, et al. **Ann Thorac Surg** 1989 Nov;48(5):723–4

Superior mesenteric artery embolism: eighty-two cases. Batellier J, et al. **Ann Vasc Surg** 1990 Mar;4(2):112–6

The role of extraanatomic exclusion bypass in the treatment of disseminated atheroembolism syndrome. Kaufman JL, et al. **Ann Vasc Surg** 1990 May;4(3):260–3

Blunt abdominal aortic trauma. Frydenberg M, et al. **Aust N Z J Surg** 1990 May;60(5):347–50

Surgical removal of a branch retinal artery embolus: a case report. Peyman GA, et al. **Int Ophthalmol** 1990 Jul; 14(4):295–8

[Acute mesenteric ischemia] Inderbitzi R, et al. **Chirurg** 1990 Jul;61(7):530–4 (Eng. Abstr.) (Ger)

[Significance of revascularization in arterially-induced mesenteric infarct] Klein P, et al. **Langenbecks Arch Chir** 1990;375(4):220–4 (Eng. Abstr.) (Ger)

THERAPY

Management of multiple cholesterol embolization syndrome—a case report. Kawakami Y, et al. **Angiology** 1990 Mar;41(3):248–52

A simple technique for thromboembolectomy of the upper limb. Beckingham IJ, et al. **Eur J Vasc Surg** 1990 Apr; 4(2):173–7

Immediate heparinisation and surgery in the management of saddle embolism. Ross SA, et al. **Eur J Vasc Surg** 1990 Apr;4(2):191–4

Balloon embolectomy catheter-induced arterial injury: a comparison of four catheters. Schwarcz TH, et al. **J Vasc Surg** 1990 Mar;11(3):382–8

Fibrinolytic therapy for upper-extremity arterial occlusions. Widlus DM, et al. **Radiology** 1990 May;175(2):393–9

[Arterial embolism of the extremities. Bases for its treatment] Tamames Escobar S. **An R Acad Nac Med (Madr)** 1989; 106(4):587–604 (41 ref.) (Spa)

EMBOLISM, AIR

CHEMICALLY INDUCED

Liquid nitrogen instillation can cause venous gas embolism. Dwyer DM, et al. **Anesthesiology** 1990 Jul;73(1):179–81

Effect of nitrous oxide on air bubble volume in arterial air embolism [letter] Garcia C, et al. **Crit Care Med** 1989 Nov; 17(11):1236

Gas embolism after ingestion of hydrogen peroxide. Rackoff WR, et al. **Pediatrics** 1990 Apr;85(4):593–4

COMPLICATIONS

Granulocyte depletion attenuates sustained pulmonary

hypertension and increased pulmonary vasoreactivity caused by continuous air embolization in sheep. Perkett EA, et al. **Am Rev Respir Dis** 1990 Feb;141(2):456–65

Furosemide reduces lung fluid filtration in lambs with lung microvascular injury from air emboli. Berner ME, et al. **J Appl Physiol** 1989 Nov;67(5):1990–6

Bubble-induced dysfunction in acute spinal cord decompression sickness. Francis TJ, et al. **J Appl Physiol** 1990 Apr;68(4):1368–75

Circulatory collapse during laparoscopy. Ostman PL, et al. **J Clin Anesth** 1990 Mar–Apr;2(2):129–32

Arterial gas embolism as a pathophysiologic mechanism for spinal cord decompression sickness. Francis TJ, et al. **Undersea Biomed Res** 1989 Nov;16(6):439–51

[Induction of pulmonary edema in rat with pulmonary artery air embolization and inhibitory effects of dilazep hydrochloride] Ohkuda K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Mar; 27(3):326–30 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Combined systemic and portal venous gas: sonographic and CT detection in two cases. Kriegshauser JS, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1219–21

Detection of microbubbles released by oxygenators during cardiopulmonary bypass by intraoperative transesophageal echocardiography. Meloni L, et al. **Am J Cardiol** 1990 Aug 15;66(4):511–4

Venous embolism during cesarean section [letter; comment] Meyer RM. **Anesth Analg** 1990 Jun;70(6):668 Comment on: Anesth Analg 1989 Nov;69(5):620–3.

Comparison of a transesophageal and precordial ultrasonic Doppler sensor in the detection of venous air embolism. Muzzi DA, et al. **Anesth Analg** 1990 Jan;70(1):103–4

Ultrasound detection of micro-emboli in the middle cerebral artery during cardiopulmonary bypass surgery. Deverall PB, et al. **Eur J Cardiothorac Surg** 1988;2(4):256–60

Detection of venous air embolism in dogs by emission spectrometry. Russell GB, et al. **J Clin Monit** 1990 Jan; 6(1):18–23

Detection of middle cerebral artery emboli during carotid endarterectomy using transcranial Doppler ultrasonography. Spencer MP, et al. **Stroke** 1990 Mar; 21(3):415–23

Maximum likelihood analysis of bubble incidence for mixed gas diving. Tikuisis P, et al. **Undersea Biomed Res** 1990 Mar;17(2):159–69

[Portal pneumatosis in adults. Apropos of a case and review of the literature] Serres JJ, et al. **J Radiol** 1989 May; 70(5):365–8 (17 ref.) (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Rationale for use of vasopressors in treatment of coronary air embolism. Goldstone J, et al. **Surg Forum** 1978;29:237–9

EPIDEMIOLOGY

The incidence of venous air embolism during total hip arthroplasty. Spiess BD, et al. **J Clin Anesth** 1988;1(1):25–30

ETIOLOGY

The spectrum of symptomatic coronary air embolism during balloon angioplasty: causes, consequences, and management. Kahn JK, et al. **Am Heart J** 1990 Jun; 119(6):1374–7

Radiological cases of the month. Systemic air embolism within a vein of Galen malformation. Mehall CJ, et al. **Am J Dis Child** 1990 Jan;144(1):95–6

Barotrauma and air embolism in hyperbaric oxygen therapy. Wolf HK, et al. **Am J Forensic Med Pathol** 1990 Jun; 11(2):149–53

Death caused by air embolism associated with neodymium:yttrium–aluminum–garnet laser surgery and artificial sapphire tips. Baggish MS, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):877–8

Bypass-associated air embolism during liver transplantation [letter; comment] Bohrer H, et al. **Anaesth Intensive Care** 1990 May;18(2):265–6 Comment on: Anaesth Intensive Care 1989 Feb;17(1):24–30.

Are Doppler-detected venous emboli during cesarean section air emboli? Fong J, et al. **Anesth Analg** 1990 Sep;71(3):254–7

Fatal venous air embolism following sequential unsheathed (bare) and sheathed quartz fiber Nd:YAG laser endometrial ablation. Challener RC, et al. **Anesthesiology** 1990 Sep; 73(3):548–51

Venous air embolism in the recovery room producing unexplained cardiac dysrhythmias: a case report. Losasso TJ, et al. **Anesthesiology** 1990 Jan;72(1):203–5

A complication of hysteroscopy: air embolism. Perry PM, et al. **Anesthesiology** 1990 Sep;73(3):546–7

Massive venous air embolism during orthotopic liver transplantation. Prager MC, et al. **Anesthesiology** 1990 Jan; 72(1):198–200

Venous air embolism during surgical manipulation of a femoral bone cyst. Rusheen JM, et al. **Anesthesiology** 1990 Jan;72(1):200–1

Left atrial air embolism during intraoperative needle biopsy of a deep pulmonary lesion. Worth ER, et al. **Anesthesiology** 1990 Aug;73(2):342–5

Systemic arterial air embolism in penetrating lung injury. Estrera AS, et al. **Ann Thorac Surg** 1990 Aug;50(2):257–61

Emboli (debris) produced by bubble oxygenators. Removal by filtration. Page US, et al. **Ann Thorac Surg** 1974 Aug; 18(2):164–71

Nitrogen embolus as a complication of hepatic cryosurgery. Schlinkert RT, et al. **Arch Surg** 1990 Sep;125(9):1214

Pulmonary barotrauma and arterial gas embolism caused by an emphysematous bulla in a SCUBA diver. Mellem H, et al. **Aviat Space Environ Med** 1990 Jun;61(6):559–62

Air embolism during transcervical resection of endometrium [letter; comment] Wood SM, et al. **BMJ** 1990 Apr 7; 300(6729):945 Comment on: BMJ 1990 Feb 3;300(6720):304–5.

Fatal air embolism during dental implant surgery: a report of three cases [see comments] Davies JM, et al. **Can J Anaesth** 1990 Jan;37(1):112–21 Comment in: Can J Anaesth 1990 Jan;37(1):12–4.

Precordial Doppler diagnosis of haemodynamically compromising air embolism during caesarean section. Fong J, et al. **Can J Anaesth** 1990 Mar;37(2):262–4

Fatal air embolism [editorial; comment] Matthews RL. **Can J Anaesth** 1990 Jan;37(1):12–4 Comment on: Can J Anaesth 1990 Jan;37(1):112–21. **(Eng, Fre)**

Massive systemic and intracranial air embolism in a very premature infant. Raju TN, et al. **Clin Pediatr (Phila)** 1990 Apr;29(4):234–5

Gas/air embolism associated with intrauterine laser surgery [news] **Colo Med** 1990 Jul;87(7):1 p. following cover

Intravascular air after fibrin sealing by spray gun in cardiovascular surgery. Olsen PS, et al. **Eur J Cardiothorac Surg** 1989;3(4):376–7

Air embolism following intra-uterine hypertonic saline instillation: treatment in a high-pressure chamber; a case report. Weissman A, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Dec;33(3):271–4

Cerebral air embolism after transthoracic aspiration with a 0.6 mm (23 gauge) needle. Omenaas E, et al. **Eur Respir J** 1989 Oct;2(9):908–10

Air embolism associated with hemodialysis. **Health Devices** 1989 Nov;18(11):406–7

Fatal air embolism from misuse of closed-wound suction units. **Health Devices** 1990 May–Jun;19(5–6):200–2

From the Food and Drug Administration. Nightingale SL. **JAMA** 1990 Jul 11;264(2):168

Burst lung, CAGE and scuba diving deaths [editorial; comment] Edmonds C. **Med J Aust** 1990 Jul 16;153(2):65 Comment on: Med J Aust 1990 Jul 16;153(2):97–100.

Delayed air embolism during vascular surgery. Smelt WL, et al. **Mt Sinai J Med** 1990 Mar;57(2):112–6

Air embolism with survival in a neonate. Savani RC, et al. **Pediatr Radiol** 1990;20(6):480–2

Effect of peripheral temperature on the formation of venous gas bubbles. Mekjavić IB, et al. **Undersea Biomed Res** 1989 Sep;16(5):391–401

[Air embolism in the sitting position. Oxygen/nitrogen versus oxygen/laughing gas] Knüttgen D, et al. **Anaesthesist** 1989 Sep;38(9):490–7 (Eng. Abstr.) **(Ger)**

[CO2 embolism during hysteroscopy] Obenhaus T, et al. **Anaesthesist** 1990 Apr;39(4):243–6 (Eng. Abstr.) **(Ger)**

[A paradoxical air embolism in a closed foramen ovale] Singbartl G, et al. **Anaesthesist** 1990 Jan;39(1):44–9 (Eng. Abstr.) **(Ger)**

[Why does the symptom of venous air embolism appear suddenly?] Takeshita J, et al. **Masui** 1989 Aug;38(8):1000–4 (Eng. Abstr.) **(Jpn)**

[Complications of IABP in the postoperative management of open-heart surgery—a review of 108 cases in the last 10 years] Mashiko K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Nov; 37(11):2345–50 (Eng. Abstr.) **(Jpn)**

[A case of posttraumatic cerebral air embolism] Muneda K, et al. **No Shinkei Geka** 1989 Aug;17(8):751–4 (Eng. Abstr.) **(Jpn)**

[Pathogenesis of the neurologic form of decompression sickness in rabbits] Korolev AB. **Kosm Biol Aviakosm Med** 1989 Sep–Oct;23(5):92–3 **(Rus)**

[Prevention and treatment of complications of central venous catheterization] Kruglov AA, et al. **Sov Med** 1989;(6):76–8 **(Rus)**

[Transient disorders of cerebrovascular circulation in patients with heart defects operated on under extracorporeal circulation] Rudenko AE, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):31–5 (Eng. Abstr.) **(Rus)**

METABOLISM

Fate of air emboli in the pulmonary circulation. Presson RG Jr, et al. **J Appl Physiol** 1989 Nov;67(5):1898–902

MORTALITY

[Clinical death caused by air embolism] Balmyshev ES, et al. **Vestn Khir** 1989 Sep;143(9):131–2 **(Rus)**

PATHOLOGY

Catastrophic injury secondary to the use of coaxial gas-cooled fibers and artificial sapphire tips for intrauterine surgery: a report of five cases. Baggish MS, et al. **Lasers Surg Med** 1989;9(6):581–4

PHYSIOPATHOLOGY

Pulmonary hemodynamics, extravascular lung water and residual gas bubbles following low dose venous gas embolism in dogs. Butler BD, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1178–82

Venous air embolism in swine: transport of gas bubbles through the pulmonary circulation. Vik A, et al. **J Appl Physiol** 1990 Jul;69(1):237–44

Increasing doses of intracarotid air and cerebral blood flow in rabbits. Helps SC, et al. **Stroke** 1990 Sep;21(9):1340–5

The effect of gas emboli on rabbit cerebral blood flow. Helps SC, et al. **Stroke** 1990 Jan;21(1):94–9

PREVENTION & CONTROL

Incidence of venous air embolism during cesarean section is unchanged by the use of a 5 to 10 degree head-up tilt [see comments] Karuparthy VR, et al. **Anesth Analg** 1989 Nov;69(5):620–3 Comment in: Anesth Analg 1990 Jun;70(6):668.

Preoperative and intraoperative echocardiography to detect right-to-left shunt in patients undergoing neurosurgical procedures in the sitting position. Black S, et al. **Anesthesiology** 1990 Mar;72(3):436–8

Failure of preoperative echo testing to prevent paradoxical air embolism: report of two cases. Cucchiara RF, et al. **Anesthesiology** 1989 Oct;71(4):604–7

Cardiac gas embolism during carbon dioxide hysteroscopy: risk and management. Brundin J, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Dec;33(3):241–5

American Omni Medical SG-30 Silent Guard ball valves. **Health Devices** 1988 Jun–Jul;17(6–7):213–4

[Methods for preventing gas embolism in pediatric neurosurgery in a sitting position: anti-shock trousers] Meyer P, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R81 **(Fre)**

[Positive expiratory pressure respiration by sub-diaphragmatic compression for preventing gas embolism in neurosurgery in a sitting position] Schurando P, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R80 **(Fre)**

RADIOGRAPHY

Computed tomography demonstration of portal venous gas after hepatic artery embolization. McCarthy P, et al. **Br J Radiol** 1990 Aug;63(752):647–8

Fatal arterial gas embolism: detection by chest radiography and imaging before autopsy [see comments] Williamson JA, et al. **Med J Aust** 1990 Jul 16;153(2):97–100 Comment in: Med J Aust 1990 Jul 16;153(2):65.

THERAPY

Hyperbaric oxygen therapy for air embolism complicating operative hysteroscopy [letter] Tur-Kaspa I. **Am J Obstet Gynecol** 1990 Aug;163(2):680–1

Initial table treatment of decompression sickness and arterial gas embolism. Bond JG, et al. **Aviat Space Environ Med** 1990 Aug;61(8):738–43

Hyperbaric oxygen and CO2 embolism [letter; comment] Etches RC. **Can J Anaesth** 1990 Mar;37(2):270–1 Comment on: Can J Anaesth 1989 Sep;36(5):586–9.

Carbon dioxide embolism treated with hyperbaric oxygen [see comments] McGrath BJ, et al. **Can J Anaesth** 1989 Sep;36(5):586–9 Comment in: Can J Anaesth 1990 Mar;37(2):270–1.

[Recompression therapy in diving accidents—introduction, indication] Wendling J. **Schweiz Z Sportmed** 1989 Aug; 37(2):104–8; discussion 124–30 (Eng. Abstr.) **(Ger)**

EMBOLISM, AMNIOTIC FLUID

Amniotic fluid embolism. Suidan JS. **Middle East J Anesthesiol** 1989 Oct;10(3):279–90 (38 ref.)

CHEMICALLY INDUCED

Vaginal prostaglandin E2 and fatal amniotic fluid embolus [letter] Less A, et al. **JAMA** 1990 Jun 27;263(24):3259–60

COMPLICATIONS

Successful treatment of postpartum shock caused by amniotic fluid embolism with cardiopulmonary bypass and pulmonary artery thromboembolectomy. Esposito RA, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):572–4

Transient left heart failure in amniotic fluid embolism. Vanmaele L, et al. **Intensive Care Med** 1990;16(4):269–71

Severe lung damage after amniotic fluid embolism; a case with haemodynamic measurements. van Haeften TW, et al. **Neth J Med** 1989 Dec;35(5–6):317–20

[Intravascular coagulation in amniotic fluid embolism] Angelov A. **Akush Ginekol (Sofiia)** 1989;28(5):24–9 (Eng. Abstr.) **(Bul)**

DIAGNOSIS

An unusual occurrence of amniotic fluid embolism. Pevey WJ. **J La State Med Soc** 1990 Jul;142(7):31–2

Amniotic fluid embolus. A report of two cases resulting in maternal survival. Dashow EE, et al. **J Reprod Med** 1989 Sep;34(9):660–6

PATHOLOGY

[Clinico-laboratory and pathomorphologic study of

intravascular blood coagulation syndrome in experimental amniotic embolism] Siatkovskiĭ VA, et al. **Arkh Patol** 1989; 51(6):48–55 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

New concepts of amniotic fluid embolism: a review. Clark SL. **Obstet Gynecol Surv** 1990 Jun;45(6):360–8 (57 ref.)

THERAPY

[A survival case of amniotic fluid embolism] Yorifuji H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 May; 42(5):491–4 **(Jpn)**

EMBOLISM, FAT

CHEMICALLY INDUCED

The fat overload syndrome: successful treatment with plasma exchange. Kollef MH, et al. **Ann Intern Med** 1990 Apr 1;112(7):545–6

Cerebral embolization and coma after hysterosalpingography with oil–soluble contrast medium. Dan U, et al. **Fertil Steril** 1990 May;53(5):939–40

COMPLICATIONS

Ischemic colitis and acalculous necrotizing cholecystitis as rare manifestations of cholesterol emboli in the same patient. Moolenaar W, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1421–2

[Cholesterol atheroembolic renal failure after arteriography. Report of a case diagnosed by renal biopsy] Morita S, et al. **Nippon Jinzo Gakkai Shi** 1989 Nov;31(11):1205–9 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Bronchoalveolar lavage for rapid diagnosis of the fat embolism syndrome in trauma patients. Chastre J, et al. **Ann Intern Med** 1990 Oct 15;113(8):583–8

Cholesterol embolization: clinical findings and implications. Rosman HS, et al. **J Am Coll Cardiol** 1990 May; 15(6):1296–9

Clinical decision making. Conference on therapeutic and diagnostic options.[clinical conference] Holtz H, et al. **N J Med** 1990 Apr;87(4):305–9

[Pampiniform livedo—an acute cardinal symptom of a cutaneous cholesterol embolism] Wolter M, et al. **Dtsch Med Wochenschr** 1990 Mar 23;115(12):452–5 (Eng. Abstr.) **(Ger)**

[Diagnostic value of bronchoalveolar lavage in fat embolism syndrome—a case report] Niimi A, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Feb;28(2):362–7 (Eng. Abstr.) **(Jpn)**

[The diagnosis of fat embolism in lungs altered by putrefaction] Purdiaev IuS, et al. **Sud Med Ekspert** 1989 Oct–Dec;32(4):10–2 (Eng. Abstr.) **(Rus)**

[Fat embolism (letter)] Fábregas N, et al. **Med Clin (Barc)** 1989 Oct 7;93(10):394 **(Spa)**

ETIOLOGY

The safety of intraosseous infusions: risks of fat and bone marrow emboli to the lungs. Orlowski JP, et al. **Ann Emerg Med** 1989 Oct;18(10):1062–7

Fat embolism syndrome after liposuction: a case report and review of the literature. Laub DR Jr, et al. **Ann Plast Surg** 1990 Jul;25(1):48–52 (18 ref.)

Multiple cholesterol emboli syndrome. Bowel infarction after retrograde angiography. Hendel RC, et al. **Arch Intern Med** 1989 Oct;149(10):2371–4

Fat embolism syndrome following the intramedullary alignment guide in total knee arthroplasty. Caillouette JT, et al. **Clin Orthop** 1990 Feb;(251):198–9

Fat emboli in bilateral total knee arthroplasty. Predictive factors for neurologic manifestations. Dorr LD, et al. **Clin Orthop** 1989 Nov;(248):112–8; discussion 118–9

Fat embolism syndrome complicating intraarterial chemotherapy with cis–platinum. Menendez LR, et al. **Clin Orthop** 1990 May;(254):294–7

Nonfracture–associated fatal fat embolism in a case of child abuse. Nichols GR 2d, et al. **J Forensic Sci** 1990 Mar; 35(2):493–9

Subarachnoid fat embolism complicating autologous fat grafting following translabyrinthine excision of acoustic neuroma. Reece AT, et al. **J Laryngol Otol** 1989 Sep; 103(9):870–1

Fulminant fat embolism. Carr JB, et al. **Orthopedics** 1990 Feb;13(2):258–61

Cholesterol emboli syndrome [clinical conference] Liput JH. **W V Med J** 1989 Dec;85(12):532–5

[Indirect cardiac massage as a cause of pulmonary fat embolism] Steiner I, et al. **Cesk Patol** 1990 May; 26(2):109–11 (Eng. Abstr.) **(Cze)**

[The origin of non–emulsified fat during autotransfusions in elective hip surgery] Henn–Beilharz A, et al. **Anaesthesist** 1990 Feb;39(2):88–95 (Eng. Abstr.) **(Ger)**

[Acute pulmonary complications following femoral intramedullary nailing in a patient with multiple trauma] Bäumer F, et al. **Chirurg** 1989 Nov;60(11):808–10 **(Ger)**

[Fat embolism] Fábregas N, et al. **Med Clin (Barc)** 1989 Oct 7;93(10):372–3 (12 ref.) **(Spa)**

[Athero–embolic nephropathy. Report of 2 cases] Romeu J, et al. **Med Clin (Barc)** 1990 Jan 13;94(1):21–4 (Eng. Abstr.) **(Spa)**

METABOLISM

Fat embolism syndrome: prospective evaluation in 92 fracture patients. Fabian TC, et al. **Crit Care Med** 1990 Jan; 18(1):42–6

MORTALITY

The cause of death in fat embolism. Weisz GM, et al. **Chest** 1971 May;59(5):511–6

PATHOLOGY

Massive fat and necrotic bone marrow embolization in a previously undiagnosed patient with sickle cell disease. Garza JA. **Am J Forensic Med Pathol** 1990 Mar;11(1):83–8

Alterations in pulmonary microanatomy after fat embolism. In vivo observations via thoracic window of the oleic acid–embolized canine lung. King EG, et al. **Chest** 1971 May;59(5):524–30

[Fatal intraoperative lung fat embolism in endoprosthesis of the hip joint] Maxeiner H. **Beitr Gerichtl Med** 1989; 47:415–27 (Eng. Abstr.) **(Ger)**

[Lung fat embolism in a newborn infant?] Missliwetz J. **Beitr Gerichtl Med** 1989;47:267–71 (Eng. Abstr.) **(Ger)**

[Detection and effects of bone marrow intravasations in operations in the area of the femoral marrow cavity] Wenda K, et al. **Unfallchirurg** 1990 Feb;93(2):56–61 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Corticosteroids do not inhibit acute pulmonary response to fat embolism. Byrick RJ, et al. **Can J Anaesth** 1990 May; 37(4 Pt 2):S130

Brain function in patients with cerebral fat embolism evaluated using somatosensory and brain–stem auditory evoked potentials. Morioka T, et al. **J Neurol** 1989 Oct; 236(7):415–7

[Experimental research on the hemodynamic and respiratory disorders in pulmonary fat microembolism] Zlatev A, et al. **Khirurgiia (Sofiia)** 1989;42(6):1–6 **(Bul)**

THERAPY

Fat embolism syndrome. Van Besouw JP, et al. **Br J Hosp Med** 1989 Oct;42(4):304–6, 308, 310–1 (71 ref.)

[Use of hemosorption in the complex treatment of a patient with cerebral fat embolism] Isaev IuV, et al. **Ortop Travmatol Protez** 1990 Mar;(3):61–2 **(Rus)**

EMBOLISM, GAS see EMBOLISM, AIR

EMBOLISM, TUMOR see NEOPLASM CIRCULATING CELLS

EMBOLIZATION, THERAPEUTIC

The limits of vascular interventional radiology. Enge I. **Acta Chir Scand Suppl** 1990;555:21–4

A case of necrosis of hepatocellular carcinoma and tumor thrombus in the portal vein induced by transcatheter arterial lipiodol chemoembolization. Hamazaki K, et al. **Acta Med Okayama** 1990 Jun;44(3):155–9

Balloon test occlusion of the internal carotid artery with monitoring of compressed spectral arrays (CSAs) of electroencephalogram. Morioka T, et al. **Acta Neurochir (Wien)** 1989;101(1–2):29–34

Spinal dural arteriovenous malformations with perimedullary drainage. Indications and results of surgery in 30 cases. Mourier KL, et al. **Acta Neurochir (Wien)** 1989; 100(3–4):136–41

External carotid artery embolization of dural arteriovenous malformations involving the cavernous sinus. Outcome and role of venous thrombosis. Hirabuki N, et al. **Acta Radiol** 1990 Mar;31(2):197–201

Effect of ethanol induced occlusion of the renal artery in rabbit kidney implanted with VX2 carcinoma. Imai S, et al. **Acta Radiol** 1989 Sep–Oct;30(5):535–9

Renal aneurysm and arteriovenous fistula. Management with transcatheter embolization. Savastano S, et al. **Acta Radiol** 1990 Jan;31(1):73–6

Prognostic factors in liver metastases after transcatheter arterial embolization or arterial infusion. Yamashita Y, et al. **Acta Radiol** 1990 May;31(3):269–74

MR imaging of the liver before and after transcatheter hepatic chemo–embolization for hepatocellular carcinoma. Yoshioka H, et al. **Acta Radiol** 1990 Jan;31(1):63–7

Abstracts of the seventh annual Stowin Medical Conference—Endovascular interventional neuroradiology. Scarsdale, NY, July 10–12, 1989. **AJNR** 1990 Jan–Feb; 11(1):217–228

Balloon embolization of experimentally created aneurysms: an animal training model. Geremia GK, et al. **AJNR** 1990 Jul–Aug;11(4):659–62

Balloon occlusion of the carotid artery prior to surgery for neck tumors. Gonzalez CF, et al. **AJNR** 1990 Jul–Aug; 11(4):649–52

Aneurysms of the petrous portion of the internal carotid artery: results of treatment with endovascular or surgical occlusion. Halbach VV, et al. **AJNR** 1990 Mar–Apr; 11(2):253–7

A new liquid material for embolization of arteriovenous malformations. Taki W, et al. **AJNR** 1990 Jan–Feb; 11(1):163–8

Hyperintense thrombus on GRASS MR images: potential pitfall in flow evaluation. Yousem DM, et al. **AJNR** 1990 Jan–Feb;11(1):51–8

Transcatheter thrombosis of a leaking saccular aneurysm of the main renal artery with preservation of renal blood flow. Routh WD, et al. **AJR Am J Roentgenol** 1990 May; 154(5):1097–9

Transcatheter embolization of a ruptured abdominal aortic stump. Terasaki KK, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):181–2

Arterial chemoinfusion and embolization of iliac metastasis from pancreatic islet cell carcinoma [letter; comment] Valette PJ, et al. **AJR Am J Roentgenol** 1989 Dec; 153(6):1318 Comment on: AJR Am J Roentgenol 1989 Feb;152(2):387–90.

Transcatheter occlusion of high flow Blalock–Taussig shunts with a detachable balloon. Gewillig M, et al. **Am J Cardiol** 1990 Jun 15;65(22):1518–9

Successful treatment of massive hemorrhage after percutaneous renal biopsy with transcatheter arterial embolization. Makita Y, et al. **Am J Nephrol** 1989; 9(6):513–5

Angiographic embolization [letter; comment] Heffner LJ. **Am J Obstet Gynecol** 1990 May;162(5):1345–6 Comment on: Am J Obstet Gynecol 1989 Feb;160(2):434–8.

Effect of percutaneous transcatheter embolization on pulmonary function, right–to–left shunt, and arterial oxygenation in patients with pulmonary arteriovenous malformations. Chilvers ER, et al. **Am Rev Respir Dis** 1990 Aug;142(2):420–5

Successful embolization of multiple AV foot lesions—a case history. Shetty PC, et al. **Angiology** 1990 Jun;41(6):492–7

Uncontrollable epistaxis. Angiographic localization and embolization. Strutz J, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):697–9

Preoperative embolisation in the management of juvenile nasopharyngeal angiofibroma. Palmer FJ. **Australas Radiol** 1989 Nov;33(4):348–50

Arteriovenous malformations: current management approaches. Halliday AW, et al. **Br J Hosp Med** 1989 Sep; 42(3):196–202 (14 ref.)

Prospective randomized controlled trial of hepatic arterial embolization or infusion chemotherapy with 5–fluorouracil and degradable starch microspheres for colorectal liver metastases. Hunt TM, et al. **Br J Surg** 1990 Jul;77(7):779–82

Endoscopic embolization of external biliary fistulae. Krige JE, et al. **Br J Surg** 1990 May;77(5):581–3

Arteriocaliceal fistula controlled by trans–catheter occlusion. Stower MJ, et al. **Br J Urol** 1989 Oct;64(4):436–7

Differential recovery of languages in a bilingual patient: a case study using selective amytal test. Berthier ML, et al. **Brain Lang** 1990 Apr;38(3):449–53

Hepatic arterial embolization with microencapsulated mitomycin C for unresectable hepatocellular carcinoma in cirrhosis. Audisio RA, et al. **Cancer** 1990 Jul 15; 66(2):228–36

Clinical and radiologic assessments of the results of hepatectomy for small hepatocellular carcinoma and therapeutic arterial embolization for postoperative recurrence. Takayasu K, et al. **Cancer** 1989 Nov 1; 64(9):1848–52

Effect of transcatheter arterial embolization on the boundary architecture of hepatocellular carcinoma. Wakasa K, et al. **Cancer** 1990 Feb 15;65(4):913–9

Transcatheter embolization of an arteriovenous malformation of the scrotum. Bezirdjian DR, et al. **Cardiovasc Intervent Radiol** 1989 Sep–Oct;12(5):267–9

Embolization of paraspinal masses. Coldwell DM. **Cardiovasc Intervent Radiol** 1989 Sep–Oct;12(5):252–4

Osseous metastases from hepatocellular carcinoma: embolization for pain control. Nagata Y, et al. **Cardiovasc Intervent Radiol** 1989 May–Jun;12(3):149–53

Catheter occlusion of a mycotic renal artery aneurysm with cure of associated renovascular hypertension. Nosher JL, et al. **Cardiovasc Intervent Radiol** 1989 Nov–1990 Dec; 12(6):310–2

Therapeutic embolization of aneurysmal bone cyst. Radanović B, et al. **Cardiovasc Intervent Radiol** 1989 Nov–1990 Dec;12(6):313–6

Hemobilia: transcatheter occlusive therapy and long–term follow–up. Uflacker R, et al. **Cardiovasc Intervent Radiol** 1989 May–Jun;12(3):136–41

Recurrent bleeding after arterial embolization in patients with hemoptysis [see comments] Katoh O, et al. **Chest** 1990 Mar; 97(3):541–6 Comment in: Chest 1990 Mar;97(3):515–6.

Bronchoscopy in the management of bronchopleural fistula. McManigle JE, et al. **Chest** 1990 May;97(5):1235–8

When does bronchial arterial embolization fail to control hemoptysis? [editorial; comment] Nath H. **Chest** 1990 Mar; 97(3):515–6 Comment on: Chest 1990 Mar;97(3):541–6.

Improvement in exercise performance after pulmonary arteriovenous malformation embolization. Soo Hoo GW, et al. **Chest** 1990 Apr;97(4):1016–8

Bronchial artery embolization for severe hemoptysis in cystic fibrosis. Sweezey NB, et al. **Chest** 1990 Jun;97(6):1322–6

Management of vein of Galen aneurysms. Combined surgical and endovascular approach. King WA, et al. **Childs Nerv Syst** 1989 Aug;5(4):208–11

Splenic artery aneurysm embolisation—the preferred

technique to surgery. Reidy JF, et al. **Clin Radiol** 1990 Apr;41(4):281–2

CT manifestations of a ruptured hepatic tumor after transcatheter arterial embolization. Nagata Y, et al. **Comput Med Imaging Graph** 1989 Sep–Oct;13(5):419–22

Abdominal angiography and embolization. Routh WD, et al. **Curr Opin Radiol** 1990 Apr;2(2):291–9 (30 ref.)

Angiographic embolization of posttraumatic hematobilia in a six–year–old boy. Baumgartner FJ, et al. **Dig Dis Sci** 1990 Feb;35(2):261–2

A gamma camera method to monitor the use of degradable starch microspheres in hepatic arterial chemotherapy. Britten A, et al. **Eur J Nucl Med** 1989;15(10):649–54

Chemoembolization of liver malignancies—the experience at the university–hospital in Frankfurt/M. (West–Germany). Hottenrott C, et al. **Gan To Kagaku Ryoho** 1989 Dec; 16(12):3672–7

Duodenal pancreatectomy with occlusion of the pancreatic duct. Gall FP, et al. **Hepatogastroenterology** 1990 Jun; 37(3):290–4

Pancreatic islet cell tumors metastatic to the liver: treatment by hepatic artery chemo–embolization. Valette PJ, et al. **Horm Res** 1989;32(1–3):77–9 (11 ref.)

Vascular metastatic renal carcinoma of the maxilla. Report of two cases. Ord RA, et al. **Int J Oral Maxillofac Surg** 1990 Apr;19(2):10[illegible]9

Intracranial arteriovenous malformations. Current imaging and treatment. Graves VB, et al. **Invest Radiol** 1990 Aug; 25(8):952–60 (38 ref.)

Embolization of iatrogenic pelvic and retroperitoneal hemorrhage. Wilms G, et al. **J Belge Radiol** 1989 Aug; 72(4):279–82

Pre–operative embolization of juvenile nasopharyngeal angiofibromas. Wilms G, et al. **J Belge Radiol** 1989 Dec; 72(6):465–70

Modified ethoxyethyl cyanoacrylate for therapeutic embolization of arteriovenous malformation. Tseng YC, et al. **J Biomed Mater Res** 1990 Jan;24(1):65–77

Arterial embolization of aneurysmal bone cyst of the lumbar spine. A report of two cases. DeRosa GP, et al. **J Bone Joint Surg [Am]** 1990 Jun;72(5):777–80

Chemoembolization for hepatocellular carcinoma. Venook AP, et al. **J Clin Oncol** 1990 Jun;8(6):1108–14

Utilization of therapeutic embolization in haemorrhage caused by carcinoma of the tongue. Masuda G, et al. **J Craniomaxillofac Surg** 1989 Oct;17(7):323–5

Renal arterial embolization with absolute ethanol. Park JH, et al. **J Korean Med Sci** 1987 Mar;2(1):13–8

Balloon embolization of posterior circulation aneurysms [letter; comment] Fisher WS 3d. **J Neurosurg** 1990 Jun; 72(6):984–5 Comment on: J Neurosurg 1989 Oct;71(4):512–9.

Endovascular detachable balloon embolization therapy of cavernous carotid artery aneurysms: results in 87 cases. Higashida RT, et al. **J Neurosurg** 1990 Jun;72(6):857–63

Cobb's syndrome and its treatment with embolization. Case report. Miyatake S, et al. **J Neurosurg** 1990 Mar;72(3):497–9 (16 ref.)

Late paraophthalmic aneurysm rupture following endovascular treatment. Case report. Strother CM, et al. **J Neurosurg** 1989 Nov;71(5 Pt 1):777–80

Microembolization and resection of a highly vascular pyogenic granuloma. Forman D, et al. **J Oral Maxillofac Surg** 1990 Apr;48(4):415–8

Therapeutic embolization of oral hemangiomas with absolute ethanol. Muto T, et al. **J Oral Maxillofac Surg** 1990 Jan; 48(1):85–8

Definitive treatment of focal nodular hyperplasia of the liver by ethanol embolization. Soucy P, et al. **J Pediatr Surg** 1989 Oct;24(10):1095–7

Selective hepatic artery embolization as an adjunct to liver packing in severe hepatic trauma: case report. Fandrich BL, et al. **J Trauma** 1989 Dec;29(12):1716–8

Liver biopsy embolization track: ultrasonic appearance. Carvalho P, et al. **JCU** 1988 Jul–Aug;16(6):426–8

Bilateral ruptured isolated internal iliac artery aneurysms—report of a case and review of the literature. Matsubara J, et al. **Jpn J Surg** 1989 Nov;19(6):760–3 (18 ref.)

Transarterial embolization to control posterior epistaxis. Hicks JN, et al. **Laryngoscope** 1989 Oct;99(10 Pt 1):1027–9

Effects of preoperative embolization on glomus jugulare tumors. Murphy TP, et al. **Laryngoscope** 1989 Dec; 99(12):1244–7

Combination treatment for massive cavernous hemangioma of the face: YAG laser photocoagulation plus direct steroid injection followed by YAG laser resection with sapphire scalpel tips, aided by superselective embolization. Apfelberg DB, et al. **Lasers Surg Med** 1990;10(3):217–23

Transcatheter embolization of small bowel anastomosis: a case report and review of the literature. DuBois JJ, et al. **Milit Med** 1989 Oct;154(10):505–7 (19 ref.)

Percutaneous transcatheter embolization of symptomatic renal angiomyolipomas: a report of four cases. van Baal JG, et al. **Neth J Surg** 1990 Jun;42(3):72–7

Long–term results in a case of meningioma treated by embolization alone—case report. Koike T, et al. **Neurol Med Chir (Tokyo)** 1990 Mar;30(3):173–7

Resolution of spinal epidural vascular pseudotumor following balloon occlusion of a postoperative vertebral arteriovenous fistula. Johnson CE, et al. **Neuroradiology** 1990;31(6):529–32

Interventional neuroradiological management of vein of Galen malformations in the neonate. Ciricillo SF, et al. **Neurosurgery** 1990 Jul;27(1):22–7; discussion 27–8

Embolization of ectopic kidney to control incontinence. De Groote B, et al. **Pediatrics** 1990 Feb;85(2):217–9

Use of adrenal arterial embolization in severe ACTH–dependent Cushing's syndrome. Blunt SB, et al. **Postgrad Med J** 1989 Aug;65(766):575–9

Comparison of intra–arterial digital subtraction angiography with conventional angiography after transcatheter arterial embolization for hepatic malignancy. Minakuchi K, et al. **Radiat Med** 1989 Sep–Oct;7(5):247–51

Elective and emergency embolotherapy in children and adolescents. Efficacy and safety. Hansen ME, et al. **Radiologe** 1990 Jul;30(7):331–6

Bronchial artery embolization to control hemoptysis in cystic fibrosis. Cohen AM, et al. **Radiology** 1990 May;175(2):401–5

Arteriovenous malformations of the brain: recent results of endovascular therapy. Fox AJ, et al. **Radiology** 1990 Oct; 177(1):51–7

Vascular metastatic lesions of the spine: preoperative embolization. Gellad FE, et al. **Radiology** 1990 Sep; 176(3):683–6

Endovascular treatment of intracranial aneurysms with a new silicone microballoon device: technical considerations and indications for therapy. Higashida RT, et al. **Radiology** 1990 Mar;174(3 Pt 1):687–91

Hepatic neoplasms: effects of transcatheter arterial embolization on coagulation and fibrinolysis. Katsushima S, et al. **Radiology** 1990 Mar;174(3 Pt 1):747–50

Massive arterial hemorrhage from the stomach and lower esophagus: impact of embolotherapy on survival. Lang EV, et al. **Radiology** 1990 Oct;177(1):249–52

Embolization of large saccular aneurysms with Gianturco coils. Rao VR, et al. **Radiology** 1990 May;175(2):407–10

Spontaneous hepatic hemorrhage in preeclampsia: treatment with hepatic arterial embolization. Terasaki KK, et al. **Radiology** 1990 Mar;174(3 Pt 2):1039–41

Treatment of malignant metastatic midgut carcinoid tumours with recombinant human alpha2b interferon with or without prior hepatic artery embolization. Hanssen LE, et al. **Scand J Gastroenterol** 1989 Sep;24(7):787–95

Blood coagulation alterations after embolic occlusion of the renal circulation. Törngren S, et al. **Scand J Urol Nephrol** 1990;24(2):141–4

Indirect carotid–cavernous sinus fistula: transvenous embolization from the external jugular vein using a superior ophthalmic vein approach. A case report. Komiyama M, et al. **Surg Neurol** 1990 Jan;33(1):57–63

Vertebral hemangiomas with cord compression: the role of embolization in five cases. Raco A, et al. **Surg Neurol** 1990 Sep;34(3):164–8

Preoperative portal embolization to increase safety of major hepatectomy for hilar bile duct carcinoma: a preliminary report. Makuuchi M, et al. **Surgery** 1990 May;107(5):521–7

Effects of verapamil and degradable starch microspheres during hepatic artery infusion of doxorubicin. Thom AK, et al. **Surgery** 1990 May;107(5):552–9

[Transcatheter embolization in the management of spinal arteriovenous malformation: a case report] Wang SY, et al. **Acta Paediatr Sin** 1988 May–Jun;29(3):207–11 (Eng. Abstr.) **(Chi)**

[Hepatic artery embolization for primary hepatic carcinoma] Ye WJ. **Chung Hua Chung Liu Tsa Chih** 1989 Mar; 11(2):151–3 (Eng. Abstr.) **(Chi)**

[The effect of drug–microsphere embolization of hepatic artery on normal liver and experimental hepatic tumor in rats] Wu XJ. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Dec;23(6):326–9 (Eng. Abstr.) **(Chi)**

[The treatment of maxillofacial hemangioma with transcatheter embolization] Chen GH. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):286–8, 319 (Eng. Abstr.) **(Chi)**

[Current status and advances in transcatheter selective arterial embolization in the head and neck] He ZL, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1989 Sep; 24(5):312–4 (27 ref.) **(Chi)**

[Percutaneous transhepatic and transileocolic obliteration with absolute ethanol for the treatment of bleeding gastroesophageal varices] Zhu YQ, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Nov;28(11):667–9, 701 (Eng. Abstr.) **(Chi)**

[A technic of limited gastric coronary vein embolization under direct vision for treatment of portal hypertension] Gao DM. **Chung Hua Wai Ko Tsa Chih** 1990 Mar; 28(3):136–9, 188 (Eng. Abstr.) **(Chi)**

[Internal iliac artery embolization for the control of severe bladder and prostate haemorrhage] Li BC. **Chung Hua Wai Ko Tsa Chih** 1990 Apr;28(4):220–1, 253 (Eng. Abstr.) **(Chi)**

[Transcatheter hepatic artery chemoembolization in the treatment of liver cancer] Liang LJ. **Chung Hua Wai Ko Tsa Chih** 1990 Apr;28(4):206–8, 251–2 (Eng. Abstr.) **(Chi)**

[Long–term survival after palliative embolization of kidneys affected by tumors] Pazourek J, et al. **Cas Lek Cesk** 1990 Jul 20;129(29):911–3 (Eng. Abstr.) **(Cze)**

[Therapeutic embolization of the venous bed using Vilan 500 in animal experiments] Janík V, et al. **Cesk Radiol** 1990 Jan;44(1):44–50 (Eng. Abstr.) **(Cze)**

[A new method of treating male infertility: percutaneous transfemoral embolization of varicoceles with Vilan 500] Janík V, et al. **Rozhl Chir** 1989 Nov;68(11):765–70 (Eng. Abstr.) **(Cze)**

[Maffucci's syndrome. Embolization and surgical excision] Bodemer C, et al. **Ann Dermatol Venereol** 1989; 116(11):868–9 **(Fre)**

[Hepatic chemo–embolization] Roche A. **Bull Cancer (Paris)** 1989;76(9):1029–37 (45 ref.) **(Fre)**

[Transhepatic embolization and endoscopic sclerosing in digestive hemorrhage caused by rupture of esophageal varices in patients with Child's stage C cirrhosis] Bonnière P, et al. **Gastroenterol Clin Biol** 1990;14(1 (Pt 2)):46B–51B (35 ref.) **(Fre)**

[Uncontrolled hemorrhage caused by rupture of subcardial varices: treatment by embolization of the splenic artery (letter)] Bourhis F, et al. **Gastroenterol Clin Biol** 1990; 14(4):407 **(Fre)**

[Embolization of vertebral hemangioma. Technic–indications–results] Picard L, et al. **Neurochirurgie** 1989;35(5):289–93, 305–8 (Eng. Abstr.) **(Fre)**

[Clinical and MRT follow–up of carotid aneurysm following balloon embolization] Triebel HJ, et al. **Radiologe** 1989 Sep; 29(9):427–31 (Eng. Abstr.) **(Ger)**

[Embolization therapy of tumors and vascular lesions of the facial bones and the base of the skull] Heuser L, et al. **ROFO** 1990 May;152(5):544–9 (Eng. Abstr.) **(Ger)**

[Changes in the lungs and pleura following chemoembolization of liver tumors with mitomycin–lipiodol] Lörcher U, et al. **ROFO** 1990 May; 152(5):569–73 (Eng. Abstr.) **(Ger)**

[Percutaneous catheter embolization of the of the internal iliac artery in life–threatening gynecological bleeding] Müller JH, et al. **Zentralbl Gynakol** 1989;111(22):1508–14 (Eng. Abstr.) **(Ger)**

[Angiographic management of angiomatous malformations in the central nervous system] Hirsch M, et al. **Harefuah** 1989 Jun 15;116(12):624–7 (Eng. Abstr.) **(Heb)**

[Evaluation of the efficacy of oil chemoembolization for hepatocellular carcinoma by computed tomography: a proposal for altering the criteria to indicate the efficacy] Ikeya S, et al. **Gan No Rinsho** 1990 Aug;36(9):985–92 (Eng. Abstr.) **(Jpn)**

[Therapeutic effects by implantable infusion pump for hepatic malignant tumors] Aoki Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1748–53 (Eng. Abstr.) **(Jpn)**

[A clinical trial of transarterial chemoembolization for hepatocellular carcinoma using 4'–0–tetrahydropyranyladriamycin] Izumi N, et al. **Gan To Kagaku Ryoho** 1990 Jul;17(7):1303–7 (Eng. Abstr.) **(Jpn)**

[Lipiodol transcatheter arterial chemoembolization for non–resectable hepatocellular carcinoma—multicenter cooperative study] Kawai S, et al. **Gan To Kagaku Ryoho** 1990 Feb;17(2):227–32 (Eng. Abstr.) **(Jpn)**

[Therapy of hepatocellular carcinoma with UFT—clinical evaluation of its effect in the combination therapy with transcatheter arterial embolization or one shot therapy] Kitamura T, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 1):1467–71 (Eng. Abstr.) **(Jpn)**

[A resected case of hepatocellular carcinoma effectively treated by hepatic artery embolization and systemic chemotherapy] Kobayashi T, et al. **Gan To Kagaku Ryoho** 1989 Dec;16(12):3791–4 (Eng. Abstr.) **(Jpn)**

[Intraarterial and intraportal chemotherapy combined with decollateralization for cholangiocellular carcinoma and metastatic liver cancer] Nagano H, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1758–62 (Eng. Abstr.) **(Jpn)**

[Combined therapy with transcatheter chemo–embolization and percutaneous ethanol injection] Nakamura H, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1740–3 (Eng. Abstr.) **(Jpn)**

[Chemoembolization for liver metastasis from colorectal cancer] Sasaki Y, et al. **Gan To Kagaku Ryoho** 1990 Aug; 17(8 Pt 2):1661–4 (Eng. Abstr.) **(Jpn)**

[Arterial chemoembolization using microencapsulated anticancer drugs] Sato K, et al. **Gan To Kagaku Ryoho** 1990 Jun;17(6):1105–10 (Eng. Abstr.) **(Jpn)**

[Intermittent arterial chemoembolization in liver tumor using degradable starch microspheres] Takayasu Y, et al. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1715–20 (Eng. Abstr.) **(Jpn)**

[Chemoembolization combined with hepatic arterial induction of endogenous TNF and anticancer agents for hepatocellular carcinoma—a case report] Takekoshi H. **Gan To Kagaku Ryoho** 1990 Aug;17(8 Pt 2):1744–7 (Eng. Abstr.) **(Jpn)**

[Basic study of chemo–embolization of the liver using hydroxyapatite granules] Tsugita M, et al. **Gan To Kagaku Ryoho** 1989 Oct;16(10):3423–8 (Eng. Abstr.) **(Jpn)**

[Basic study on hepatic artery chemoembolization and tumor selective drug targeting by temperature–sensitive liposome with local hyperthermia] Ueno M, et al. **Gan To Kagaku Ryoho** 1989 Dec;16(12):3735–8 (Eng. Abstr.) **(Jpn)**

[Arterial stasis chemotherapy] Yamada R, et al. **Gan To Kagaku Ryoho** 1990 Mar;17(3 Pt 2):440–4 (Eng. Abstr.) **(Jpn)**

[Transcatheter arterial embolization in patients with renal arteriovenous malformation: a report of two cases] Morita T, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1761–5 (12 ref.) (Eng. Abstr.) (Jpn)

[Therapeutic embolization of renal angiomyolipoma: a case report] Watanabe T, et al. **Hinyokika Kiyo** 1989 Jul; 35(7):1183–7 (Eng. Abstr.) (Jpn)

[Follow-up pulmonary perfusion scintigraphy pulmonary arterial embolization in two cases of familial pulmonary arteriovenous fistula] Okizuka H, et al. **Kaku Igaku** 1990 Apr;27(4):393–8 (Eng. Abstr.) (Jpn)

[Successful therapy with tegafur and lentinan after TAE for hepatocellular carcinoma—a case report] Miyamoto K, et al. **Nippon Gan Chiryo Gakkai Shi** 1989 Dec 20; 24(11):2624–8 (Eng. Abstr.) (Jpn)

[Nourishment of the hepatocellular carcinoma via portal blood flow—from the analysis of the tumor cell kinetics using 5-bromo-2'-deoxyuridine: preliminary report] Goseki N, et al. **Nippon Geka Gakkai Zasshi** 1989 Aug; 90(8):1282 (Jpn)

[Transcatheter arterial embolization for massive abdominal bleeding in post-pancreatoduodenectomy—first report] Machida H, et al. **Nippon Geka Gakkai Zasshi** 1990 Jun; 91(6):705–12 (Eng. Abstr.) (Jpn)

[Experimental studies of transcatheter portal embolization] Oguma S. **Nippon Geka Gakkai Zasshi** 1990 Jan; 91(1):114–22 (Eng. Abstr.) (Jpn)

[Thyroid cancer metastasis to the lumbar spine successfully treated by embolization and radioiodine. A case report] Sumimura J, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul; 91(7):910–3 (Eng. Abstr.) (Jpn)

[Management of bleeding esophageal varices—efficacy of emergency embolization therapy] Tajiri T, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1541–4 (Eng. Abstr.) (Jpn)

[A case of ruptured aneurysm of the profunda femoris artery treated successfully by transcatheter embolization] Terada Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Aug; 90(8):1278–81 (Eng. Abstr.) (Jpn)

[Transcatheter arterial embolization therapy in cases of recurrent and advanced pelvic cancer—estimation by Cox's proportional hazard model] Harima Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Jan 25; 50(1):18–23 (Eng. Abstr.) (Jpn)

[Experimental study of embolo-hyperthermia for treatment of liver tumor—induction heating to ferromagnetic particles injected into tumor tissue] Hase M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Sep 25; 49(9):1171–3 (Eng. Abstr.) (Jpn)

[Changes in hepatic circulation after hepatic arterial embolization—an analysis of factors affecting the development of collaterals] Kodama T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jul 25; 49(7):892–8 (Eng. Abstr.) (Jpn)

[Pulmonary complication following intra-arterial infusion of lipiodol-adriamycin emulsion for hepatocellular carcinoma, report of a case] Samejima M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Jan 25; 50(1):24–8 (Eng. Abstr.) (Jpn)

[The movement of antineoplastic solutions in transcatheter hepatic arterial embolization] Tsuda M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 May 25; 50(5):504–11 (Eng. Abstr.) (Jpn)

[Preoperative therapeutic embolization for massive hemoptysis from bronchial collaterals in tetralogy of Fallot—a case report successfully treated by total correction] Suzuki Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar;38(3):472–6 (Eng. Abstr.) (Jpn)

[Angiographic arterial embolization for control of intractable postpartum hemorrhage] Ito M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov; 41(11):1859–62 (Jpn)

[An immunological and clinical evaluation of combined TAE-LAK adoptive immunotherapy] Arakawa K. **Nippon Shokakibyo Gakkai Zasshi** 1989 Jul;86(7):1494–504 (Eng. Abstr.) (Jpn)

[Remission state and five-year survival after transcatheter arterial embolization therapy in patients with hepatocellular carcinoma] Ikeda K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2215–22 (Eng. Abstr.) (Jpn)

[A case report: transcatheter arterial embolization was effective for hepatocellular carcinoma with bile duct invasion] Kiso S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1248–52 (Jpn)

[Serial change in serum concentration of type III procollagen N-terminal peptide after TAE in hepatocellular carcinoma, and analysis of gel filtration pattern of the peptide] Matsuda H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Dec; 86(12):2742–8 (Eng. Abstr.) (Jpn)

[Successful hepatic artery embolization to control massive jejunal bleeding from the hepatic artery pseudoaneurysm] Miyazaki R, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2236–9 (Jpn)

[A combination treatment of transcatheter arterial embolization (TAE) and irradiation for hepatocellular carcinoma (HCC)—evaluation for therapeutic efficacy in comparison with TAE or irradiation alone] Yoshikawa M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Feb; 87(2):225–34 (Eng. Abstr.) (Jpn)

[Changes in ketone body ratio and levels of pyruvate and lactate in arterial blood of patients with hepatocellular carcinoma after transcatheter arterial embolization] Mizobuchi N, et al. **Rinsho Byori** 1990 Jul;38(7):825–9 (Eng. Abstr.) (Jpn)

[Liquid embolization for arteriovenous malformation with temporary balloon occlusion of another feeders] Abe H, et al. **Rinsho Hoshasen** 1989 Jun;34(6):739–42 (Eng. Abstr.) (Jpn)

[A long surviving hepatocellular carcinoma case (2 years 1 month) with tumor thrombus in the portal trunk treated by embolization] Hara H, et al. **Rinsho Hoshasen** 1989 Dec; 34(13):1641–4 (Eng. Abstr.) (Jpn)

[Transcatheter arterial embolization for postpartum hemorrhage] Hori A, et al. **Rinsho Hoshasen** 1990 May; 35(5):645–7 (Eng. Abstr.) (Jpn)

[Embolization of the lumbar artery for pelvic fracture] Hori A, et al. **Rinsho Hoshasen** 1989 Sep;34(9):1047–50 (Eng. Abstr.) (Jpn)

[Therapeutic embolization of infantile hemangioendothelioma of the liver] Itoh K, et al. **Rinsho Hoshasen** 1989 Aug; 34(8):933–6 (Eng. Abstr.) (Jpn)

[Transcatheter left gastric arterial embolization (TAE) in the management of massive gastric bleeding from gastric ulcer] Koganemaru F, et al. **Rinsho Hoshasen** 1990 May; 35(5):607–13 (Eng. Abstr.) (Jpn)

[Transcatheter arterial embolization for cystic hepatic metastases from leiomyosarcoma of gastrointestinal tract] Matsumoto S, et al. **Rinsho Hoshasen** 1990 Apr;35(4):453–8 (Eng. Abstr.) (Jpn)

[Angiographic anatomy of arterial branches to the caudate lobe of the liver with special reference to its effect on transarterial embolization of hepatocellular carcinoma] Miyayama S, et al. **Rinsho Hoshasen** 1990 Mar;35(3):353–9 (Eng. Abstr.) (Jpn)

[Transcatheter embolization of splenic artery aneurysm; a case report] Miyazaki M, et al. **Rinsho Hoshasen** 1990 May; 35(5):641–4 (Eng. Abstr.) (Jpn)

[Transcatheter arterial embolization in the management of duodenal bleeding] Okazaki M, et al. **Rinsho Hoshasen** 1990 Mar;35(3):331–5 (Eng. Abstr.) (Jpn)

[Emergency hepatic arterial embolization in the management of hemobilia] Ono H, et al. **Rinsho Hoshasen** 1990 Mar; 35(3):325–30 (Eng. Abstr.) (Jpn)

[Transarterial hepatic embolization of metastatic liver cancers with reference to 17 cases of survival for more than 2 years] Satoh O, et al. **Rinsho Hoshasen** 1990 Mar;35(3):345–52 (Eng. Abstr.) (Jpn)

[A long surviving case (1 year 9 months) with stage IV ruptured HCC treated by emergency embolization] Shishime M, et al. **Rinsho Hoshasen** 1990 May;35(5):637–40 (Eng. Abstr.) (Jpn)

[Adrenal arterial embolization and radiotherapy of a case with metastatic adrenal tumor and its tumor thrombus in inferior vena cava from hepatocellular carcinoma] Takada K, et al. **Rinsho Hoshasen** 1989 Nov;34(12):1529–32 (Eng. Abstr.) (Jpn)

[A case report of transcatheter arterial embolization of hepatic artery aneurysm which ruptured into the duodenum] Takemura T, et al. **Rinsho Hoshasen** 1990 May; 35(5):633–6 (Eng. Abstr.) (Jpn)

[Prophylactic embolization for unruptured aneurysm of the splenic artery; a case report] Uchino A, et al. **Rinsho Hoshasen** 1989 Aug;34(8):961–3 (Eng. Abstr.) (Jpn)

[Transcatheter arterial embolization of hemangiomas in the perioral region] Yamada M, et al. **Rinsho Hoshasen** 1989 Sep;34(9):967–71 (Eng. Abstr.) (Jpn)

[Therapeutic embolization for bilateral renal angiomyolipomas with spontaneous rupture—a case report] Yamane K, et al. **Rinsho Hoshasen** 1989 Nov;34(12):1505–8 (Eng. Abstr.) (Jpn)

[The morphological changes in liver hemangiomas and in organ tissue after endovascular occlusion of branches of the hepatic artery based on the results of a study of surgical material] Zelenov GG, et al. **Arkh Patol** 1989;51(12):23–8 (Eng. Abstr.) (Rus)

[The use of hydrogel emboli in the treatment of pulmonary hemorrhage in the records of the Tula Regional Hospital] Korolev VM, et al. **Grud Serdechnososudistaia Khir** 1990; (4):48–9 (Eng. Abstr.) (Rus)

[Late results of ligation of the splenic artery and its embolization in portal hypertension syndrome] Lytkin MI, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):39–43 (Eng. Abstr.) (Rus)

[Is impaired blood circulation in the portal system a counterindication to embolization of the hepatic artery in liver tumors?] Tarazov PG. **Klin Khir** 1990;(6):40–1 (Rus)

[Dependence of the therapeutic effect of hepatic artery embolization on the completeness of devascularization of liver tumor] Tarazov PG. **Klin Khir** 1990;(5):11–2 (Eng. Abstr.) (Rus)

[Choice of the approach in catheterization and embolization of the hepatic artery in malignant tumors of the liver] Tarazov PG, et al. **Klin Khir** 1990;(5):24–6 (Eng. Abstr.) (Rus)

[Evaluation of long-term results of intravascular occlusion in patent ductus arteriosus by two-dimensional Doppler echocardiography] Savel'ev SV, et al. **Pediatriia** 1990; (4):74–8 (Rus)

[Complex treatment of complications of liver cirrhosis] Borisov AE, et al. **Vestn Khir** 1989 Jun;142(6):21–5 (Eng. Abstr.) (Rus)

[The efficacy of x-ray endovascular interventions in hepatic lesions and diseases] Moskvichev VG. **Vestn Rentgenol Radiol** 1990 Jan-Feb;(1):21–6 (Eng. Abstr.) (Rus)

[The effect of embolization of an aneurysmal splenic artery] Tarazov PG, et al. **Vestn Rentgenol Radiol** 1989 Sep-Oct; (5):78–9 (Rus)

[Embolization of the hepatic artery in hemangiomas of the liver] Tarazov PG, et al. **Vopr Onkol** 1990;36(5):583–7 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Bile duct necrosis after partial hepatectomy and transcatheter hepatic arterial embolization [letter] Gotoh M, et al. **AJR Am J Roentgenol** 1990 May;154(5):1124

Acute pancreatitis after transcatheter arterial embolization (TAE) for hepatocellular carcinoma. Kishimoto W, et al. **Am J Gastroenterol** 1989 Nov;84(11):1396–9

Delayed formation of gallstone after transcatheter arterial embolization for hepatocellular carcinoma. Is elective cholecystectomy advisable during hepatectomy? Jeng KS, et al. **Arch Surg** 1989 Nov;124(11):1319–22

Computed tomography demonstration of portal venous gas after hepatic artery embolization. McCarthy P, et al. **Br J Radiol** 1990 Aug;63(752):647–8

Left main bronchial-esophageal fistula: a complication of bronchial artery embolization. Munk PL, et al. **Cardiovasc Intervent Radiol** 1990 Apr-May;13(2):95–7

Bilio-enteric anastomosis as a risk factor for postembolic hepatic abscesses. Okajima K, et al. **Cardiovasc Intervent Radiol** 1989 May-Jun;12(3):128–30

Left main-stem bronchial stenosis complicating bronchial artery embolization. Girard P, et al. **Chest** 1990 May; 97(5):1246–8

Inadvertent pancreatic embolization as a complication of hepatic carcinoid treatment—computed tomography appearance. Mendelson DS, et al. **Clin Imaging** 1989 Sep; 13(3):212–4

Inadvertent bucrylate pulmonary embolization: a case report. Takasugi JE, et al. **J Thorac Imaging** 1989 Oct;4(4):71–3

[Worsening of chronic disseminated intravascular coagulation after embolization of the renal artery] Galet A, et al. **Ann Fr Anesth Reanim** 1990;9(1):87–9 (Eng. Abstr.) (Fre)

[Renal abscess: complication of transcatheter arterial embolization of renal cell carcinoma] Goubara M, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1741–4 (Eng. Abstr.) (Jpn)

[Neurologic complications following intraarterial chemoinfusion and/or chemoembolization of pelvic malignancies] Morita S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Jun 25; 49(6):742–7 (Eng. Abstr.) (Jpn)

[Influence of hepatic arterial embolization on diabetic patients with hepatocellular carcinoma] Sakamoto K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 Aug 25; 49(8):986–92 (Eng. Abstr.) (Jpn)

[Effects of experimental hepatic artery embolization with lipiodol and gelatin sponge on liver tissue] Sato M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1990 Feb 25; 50(2):107–13 (Eng. Abstr.) (Jpn)

[Factors of gastric lesions following after transcatheter arterial embolization for primary hepatoma] Ishigaki H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Jan;87(1):57–61 (Eng. Abstr.) (Jpn)

[Effects on blood coagulation-fibrinolytic system after transcatheter hepatic arterial therapy in cases of hepatocellular carcinoma analyzed by plasma levels of plasmin-alpha 2-PI complex, D dimer and thrombin-ATIII complex] Mizuguchi A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Mar;87(3):790–8 (Eng. Abstr.) (Jpn)

[Analysis of complications of embolization of blood vessels of the abdominal cavity] Moskvichev VG. **Klin Khir** 1989; (7):59–60 (Rus)

INSTRUMENTATION

Treatment of carotid artery aneurysms with platinum coils: an experimental study in dogs. Graves VB, et al. **AJNR** 1990 Mar-Apr;11(2):249–52

Hydroxyethyl methylacrylate and latex balloons. Monsein LH, et al. **AJNR** 1990 Jul-Aug;11(4):663–4

A versatile, steerable, flow-guided catheter for delivery of detachable balloons. Nelson M. **AJNR** 1990 Jul-Aug; 11(4):657–8

Platinum microcoils for therapeutic embolization: nonneuroradiologic applications. Morse SS, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):401–3

A coaxial catheter and steerable guidewire used to embolize branches of the splanchnic arteries. Okazaki M, et al. **AJR Am J Roentgenol** 1990 Aug;155(2):405–6

Platinum wire embolization of an intrahepatic arterioportal fistula. Bilbao JI, et al. **Am J Gastroenterol** 1990 Jul; 85(7):859–60

Percutaneous balloon occlusion of surgical arteriovenous fistulae following venous thrombectomy. Endrys J, et al. **Cardiovasc Intervent Radiol** 1989 Jul-Aug;12(4):226–9

Balloon embolization of iatrogenic aortocoronary arteriovenous fistula. Graeb DA, et al.

Cathet Cardiovasc Diagn 1990 May;20(1):58–62
Endobronchial vascular occlusion coils for control of a large parenchymal bronchopleural fistula. Salmon CJ, et al. Chest 1990 Jul;98(1):233–4
Two-dimensional echocardiographic and color flow Doppler evaluation of ductal occlusion with the Rashkind prosthesis. Musewe NN, et al. Circulation 1989 Dec; 80(6):1706–10
Elimination of a cirsoid aneurysm of the scalp by direct percutaneous embolization with thrombogenic coils. Case report. Heilman CB, et al. J Neurosurg 1990 Aug; 73(2):296–300
Pancreatic pseudoaneurysm. Monitoring the success of transcatheter embolization with duplex sonography. Lim GM, et al. J Ultrasound Med 1989 Nov;8(11):643–6
[Embolization therapy using detachable balloons] Schubert M, et al. Radiol Diagn (Berl) 1989;30(5):599–604 (Eng. Abstr.) (Ger)
[Application of the Tracker Infusion Catheter to hepatic tumors] Mitsuya K, et al. Rinsho Hoshasen 1990 Apr; 35(4):541–4 (Jpn)
[The analysis of superselective catheterization technique; transcatheter segmental arterial embolization using lipiodol for hepatocellular carcinoma] Satoh O, et al. Rinsho Hoshasen 1990 Jun;35(6):685–90 (Eng. Abstr.) (Jpn)

METHODS

Embolization of cerebral arteriovenous malformations with bucrylate. Experience in a first series of 29 patients. Berthelsen B, et al. Acta Radiol 1990 Jan;31(1):13–21
Transfemoral venous embolization of vein of Galen malformations. Dowd CF, et al. AJNR 1990 Jul–Aug; 11(4):643–8
Endovascular therapy of intracranial aneurysms [comment] Fox AJ, et al. AJNR 1990 Jul–Aug;11(4):641–2 (13 ref.) Comment on: AJNR 1990 Jul–Aug;11(4):633–40.
Balloon embolization of a basilar bifurcation aneurysm. Guglielmi G. AJNR 1990 Jul–Aug;11(4):653–5
Treatment of intracranial aneurysms with preservation of the parent vessel: results of percutaneous balloon embolization in 84 patients [see comments] Higashida RT, et al. AJNR 1990 Jul–Aug;11(4):633–40 Comment in: AJNR 1990 Jul–Aug;11(4):641–2.
Preoperative embolization of cerebral arteriovenous malformations with polyvinyl alcohol particles: experience in 51 adults. Purdy PD, et al. AJNR 1990 May;11(3):501–10
Unilateral double carotid cavernous fistula treated with detachable balloons. Wilms G. AJNR 1990 May;11(3):517
Arterial embolization to control life-threatening hemorrhage from a Meckel's diverticulum. Okazaki M, et al. AJR Am J Roentgenol 1990 Jun;154(6):1257–8
Percutaneous transhepatic treatment of a large intrahepatic aneurysm. Rothbarth LJ, et al. A.J.R Am J Roentgenol 1989 Nov;153(5):1077–8
Hepatic arterial embolization for treatment of glucagonomas: antineoplastic and palliative benefits. Freimann J, et al. Am J Clin Oncol 1990 Jun;13(3):271–5
Platinum wire embolization of an intrahepatic arterioportal fistula. Bilbao JI, et al. Am J Gastroenterol 1990 Jul; 85(7):859–60
Intravenous sedation during hepatic artery chemotherapeutic embolization [letter] Vitkun SA, et al. Anesth Analg 1990 Mar;70(3):338
Embolisation of a complex coronary arteriovenous fistula in a 6 year old child: the need for specialised embolisation techniques. Reidy JF, et al. Br Heart J 1990 Apr; 63(4):246–8
Superselective embolization using a coaxial catheter technique. Olliff S, et al. Br J Radiol 1990 Mar; 63(747):197–201
Hepatic arterial embolization for metastatic hormone-secreting tumors. Technique, effectiveness, and complications. Marlink RG, et al. Cancer 1990 May 15; 65(10):2227–32
Hepatic arterial embolization utilizing a coaxial catheter system: technical note. Coldwell DM. Cardiovasc Intervent Radiol 1990 Feb-Mar;13(1):53–4
Transcatheter arterial chemoembolization with anticancer drug in iodized oil for primary hepatic carcinoma. Guo JY, et al. Cardiovasc Intervent Radiol 1989 Jul–Aug; 12(4):181–7
Embolization of a mesenteric artery aneurysm: case report. Ku A, et al. Cardiovasc Intervent Radiol 1990 Apr–May; 13(2):91–2
Embolization of a thoracic aortic aneurysm; the straddling coil technique: technical note. Mori H, et al. Cardiovasc Intervent Radiol 1990 Feb–Mar;13(1):50–2
The biocompatibility of compressed collagen foam plugs. Robinson JD, et al. Cardiovasc Intervent Radiol 1990 Feb–Mar;13(1):36–9
Percapsular and percutaneous embolization of renal transplant pseudoaneurysm and AV fistula: case report. Sennett CA, et al. Cardiovasc Intervent Radiol 1989 Sep–Oct;12(5):270–3
Swan–Ganz catheter-induced rupture of the pulmonary artery: successful early management by transcatheter embolization. Jondeau G, et al. Cathet Cardiovasc Diagn 1990 Mar;19(3):202–4
Treatment of coronary artery stenosis and coronary arteriovenous fistula by interventional cardiology techniques. Nguyen K, et al. Cathet Cardiovasc Diagn 1989 Dec;18(4):240–3
Transcatheter bronchial artery embolization in the multimodality management of massive hemoptysis. Metzdorff MT, et al. Chest 1990 Jun;97(6):1494–6
Angiographic embolization of traumatic hepatic artery pseudoaneursym. Ross P Jr, et al. Conn Med 1990 Jun; 54(6):308–10
Temporary chemoembolization of colorectal liver metastases with degradable starch microspheres. Lorenz M, et al. Eur J Surg Oncol 1989 Oct;15(5):453–62
Control of life-threatening hemorrhage in cecal tuberculosis by transcatheter embolisation. Ramakantan R, et al. Indian J Gastroenterol 1990 Apr;9(2):149–50
Successful embolization of a coronary arterial fistula [letter] Reidy JF, et al. Int J Cardiol 1990 May;27(2):285
Arterio-venous malformation following a radical neck dissection. Brown JS, et al. Int J Oral Maxillofac Surg 1989 Aug;18(4):239–40
Arterial embolization in patients with renal carcinoma. Christensen SW, et al. Int Urol Nephrol 1989;21(6):575–8 (28 ref.)
Partial splenic embolization guided by blood flow measurements. Link DP, et al. Invest Radiol 1989 Sep; 24(9):678–83
Transcatheter arterial embolization in the management of gynaecological bleeding. Wilms G, et al. J Belge Radiol 1990 Jan;73(1):21–5
Preparation and evaluation of radiopaque hydrogel microspheres based on PHEMA/iothalamic acid and PHEMA/iopanoic acid as particulate emboli. Jayakrishnan A, et al. J Biomed Mater Res 1990 Aug;24(8):993–1004
Detachable balloon embolization for intracranial aneurysms [letter; comment] Fox AJ, et al. J Neurosurg 1990 Jul; 73(1):157–9 Comment on: J Neurosurg 1989 Oct;71(4):512–9.
Detachable balloon embolization therapy of posterior circulation intracranial aneurysms [see comments] Higashida RT, et al. J Neurosurg 1989 Oct;71(4):512–9 Comment in: J Neurosurg 1990 Jun;72(6):984–5. Comment in: J Neurosurg 1990 Jul;73(1):157–9.
Management of giant intracranial ICA aneurysms with combined extracranial–intracranial anastomosis and endovascular occlusion. Serbinenko FA, et al. J Neurosurg 1990 Jul;73(1):57–63
Treatment of spinal metastases from kidney cancer by presurgical embolization and resection. Sundaresan N, et al. J Neurosurg 1990 Oct;73(4):548–54
"Interventional angiography." A possible role in intraoperative balloon occlusion catheterization of lacerated pelvic arteries. Morrison KM, et al. J Orthop Res 1989;7(6):824–7
Neurovascular lesions and endovascular therapy: the role of MR. Jabour BA, et al. Neuroradiology 1989;31(4):341–5
Extracranial vertebral artery aneurysm with neurofibromatosis. Endovascular treatment by detachable balloon. Negoro M, et al. Neuroradiology 1990;31(6):533–6
Renal embolization for ablation of function in renal failure and hypertension. Millard FC, et al. Postgrad Med J 1989 Oct;65(768):729–34
Endovascular treatment of scalp arteriovenous fistulas associated with a large varix. Barnwell SL, et al. Radiology 1989 Nov;173(2):533–9
Subselective embolization with gelatin sponge through an open-ended guide wire. Encarnacion CE, et al. Radiology 1990 Jan;174(1):265–7
"High-flow" priapism: treatment with superselective transcatheter embolization. Walker TG, et al. Radiology 1990 Mar;174(3 Pt 2):1053–4
Therapeutic embolization of pulmonary arteriovenous malformation. Chung WM, et al. Singapore Med J 1989 Oct;30(5):488–9
[Experimental canine hepatic artery embolization with polyvinyl alcohol microspheres] Zou YH. Chung Hua Fang She Hsueh Tsa Chih 1989 Dec;23(6):330–2 (Eng. Abstr.) (Chi)
[An experimental study of the basic properties of drug microspheres and target treatment of rats with liver tumor] Wu XJ. Chung Hua Wai Ko Tsa Chih 1990 Apr;28(4):241–3, 254 (Eng. Abstr.) (Chi)
[Ethanol for hepatic arterial embolization (experimental study)] Chen XL, et al. Hua Hsi I Ko Ta Hsueh Hsueh Pao 1989 Mar;20(1):42–5 (Eng. Abstr.) (Chi)
[Clinical aspects and treatment of spontaneous carotid artery-cavernous sinus fistula] Möbius E, et al. Fortschr Neurol Psychiatr 1989 Dec;57(12):518–26 (Eng. Abstr.) (Ger)
[Embolization therapy of cavernous hemangiomas] Rappersberger K, et al. Hautarzt 1989 Aug;40(8):514–7 (Eng. Abstr.) (Ger)
[Transfemoral balloon occlusion of the coronary sinus in patients with angina pectoris] Franz N, et al. Radiol Diagn (Berl) 1990;31(1):35–41 (Eng. Abstr.) (Ger)
[Angiography and angiotherapy in diseases of the pelvic organs] Klein HM, et al. Roentgenblatter 1990 Aug; 43(8):323–8 (36 ref.) (Eng. Abstr.) (Ger)
[Super-selective embolization of a kidney angioma] Braedel HU, et al. Urologe [A] 1990 May;29(3):161–3 (Eng. Abstr.) (Ger)
[Effect of kidney occlusion on survival in renal cell carcinoma: a 10-year retrospective study] Latal D, et al. Z Urol Nephrol 1990 Jan;83(1):27–31 (Eng. Abstr.) (Ger)
[Percutaneous transcatheter embolization in blood steal following myocardial revascularization. 2 case reports] Riboldi L, et al. Radiol Med (Torino) 1990 May;79(5):544–7 (Ita)
[Behavior of anti-cancer drug of transcatheter hepatic segmental arterial chemoembolization using lipiodol mixed with an anti-cancer drug followed by gelatin sponge assessed by Tc-99m pertechnetate] Sakaguchi H, et al. Gan To Kagaku Ryoho 1990 Aug;17(8 Pt 2):1725–30 (Eng. Abstr.) (Jpn)
[Improvement of heart failure after intracardiac operation for tetralogy of Fallot by transcatheter embolization of major aortopulmonary collateral arteries] Inamura S, et al. Kyobu Geka 1990 Mar;43(3):219–21 (Eng. Abstr.) (Jpn)
[Evaluation of preoperative chemoembolization using ethiodized oil, cisplatin and gelatin sponge (sandwich therapy) for hepatocellular carcinoma] Shibata T, et al. Nippon Geka Gakkai Zasshi 1990 Jul;91(7):859–63 (Eng. Abstr.) (Jpn)
[An experimental trial for quantitative estimation of lipiodol using CT value—application to hepatic arterial infusion therapy] Ikeda K, et al. Nippon Igaku Hoshasen Gakkai Zasshi 1990 Jan 25; 50(1):84–6 (Eng. Abstr.) (Jpn)
[Experimental studies of intrahepatic portal vein embolization and embolic materials] Matsuoka T. Nippon Igaku Hoshasen Gakkai Zasshi 1989 May 25; 49(5):593–606 (Eng. Abstr.) (Jpn)
[Successful vitelline arterial embolization for massive hemorrhage from Meckel's diverticulum] Yamasaki S, et al. Nippon Shokakibyo Gakkai Zasshi 1990 Feb;87(2):252–5 (Jpn)
[Successful transcatheter embolization of pseudoaneurysm associated with pancreatic pseudocyst] Gabata T, et al. Rinsho Hoshasen 1989 Aug;34(8):949–52 (Eng. Abstr.) (Jpn)
[A case report of hepatoma with a giant splenic aneurysm both treated by TAE therapy] Kamada K, et al. Rinsho Hoshasen 1989 Aug;34(8):957–60 (Eng. Abstr.) (Jpn)
[Long-term effects of partial splenic embolization (PSE) for hypersplenism] Miyayama S, et al. Rinsho Hoshasen 1989 Aug;34(8):893–8 (Eng. Abstr.) (Jpn)
[Usefulness of 5F superflexible catheter for hepatic arterial embolization] Nakagawa K, et al. Rinsho Hoshasen 1989 Aug;34(8):929–31 (Eng. Abstr.) (Jpn)
[Percutaneous transhepatic portography in patients with hepatocellular carcinoma: percutaneous transhepatic portal venous embolization] Tanaka H, et al. Rinsho Hoshasen 1989 Aug;34(8):879–85 (Eng. Abstr.) (Jpn)
[Embolotherapy in aneurysm of the basilar artery] Campos JG, et al. Acta Med Port 1990 Mar–Apr;3(2):115–8 (Eng. Abstr.) (Por)
[Therapeutic choices in lung cancer associated with thrombocytopenic purpura] Klimanskii VA, et al. Grud Serdechnososudistaia Khir 1990;(2):75–7 (Rus)
[Prognostic value and possibilities of the treatment of arterio-portal fistula in tumors of the liver] Granov AM, et al. Khirurgiia (Mosk) 1990 Jan;(1):42–5 (Eng. Abstr.) (Rus)
[Endovascular diagnosis and transcatheter procedures in portal hypertension] Karimov ShI, et al. Khirurgiia (Mosk) 1990 Jan;(1):61–7 (Eng. Abstr.) (Rus)
[A method of temporary hemostasis during surgical correction of traumatic aneurysm] Usmanov NU, et al. Khirurgiia (Mosk) 1990 Jan;(1):80–1 (Rus)
[Experimental substantiation of occlusion of the pancreatic ducts in acute destructive pancreatitis] Medvedenko AF, et al. Klin Khir 1989;(11):22–4 (Eng. Abstr.) (Rus)
[Treatment of experimental pancreonecrosis by occlusion of the pancreatic ducts and cryodestruction of necrotic foci] Buianov VM, et al. Vestn Khir 1989 Jun;142(6):28–31 (Eng. Abstr.) (Rus)
[Surgical atelectasis of the lung after trans-sternal trans-pericardial occlusion of the main bronchus] Naumov VN, et al. Vestn Khir 1989 May;142(5):46–7 (Rus)

EMBRYO

see related
CELL DIFFERENTIATION
GESTATIONAL AGE

Micromanipulation of embryos and germ cells: an approach to gene therapy? Gordon JW. Am J Med Genet 1990 Feb; 35(2):206–14 (67 ref.)
Effect of administration of prostaglandin F2 alpha on embryo recovery from the uterus on day 5 after ovulation in mares. Hinrichs K, et al. Am J Vet Res 1990 Mar;51(3):451–3
Embryo manipulation in research and animal production. Shelton JN. Aust J Biol Sci 1988;41(1):117–32 (144 ref.)
Embryo research [letter; comment] BMJ 1989 Dec 16; 299(6714):1528–9 Comment on: BMJ 1989 Dec 2;299(6712):1349–50.
Embryo research: yes or no? [see comments] Braude P, et al. BMJ 1989 Dec 2;299(6712):1349–50 (33 ref.) Comment in: BMJ 1989 Dec 16;299(6714):1528–9.
Whose embryo is it? Healey JM. Conn Med 1990 Feb; 54(2):105
Is an embryo really a child? Healey JM. Conn Med 1990 Apr;54(4):233
Judge Young and the legal status of the human embryo. Healey JM. Conn Med 1990 Mar;54(3):165

Gene transfer into mouse embryos. Gordon K, et al. **Dev Biol (N Y 1985)** 1986;4:1-36 (141 ref.)
Embryo sexing of farm animals. Hare WC. **Dev Biol (N Y 1985)** 1986;4:195-216 (144 ref.)
Nuclear and cytoplasmic transfer in mammalian embryos. McGrath J, et al. **Dev Biol (N Y 1985)** 1986;4:37-55 (59 ref.)
Cryopreservation of mammalian eggs and embryos. Wilmut I. **Dev Biol (N Y 1985)** 1986;4:217-47 (88 ref.)
The management of predicted ovarian hyperstimulation involving gonadotropin-releasing hormone analog with elective cryopreservation of all pre-embryos. Amso NN, et al. **Fertil Steril** 1990 Jun;53(6):1087-90
Clinical status of human embryo cryopreservation in the United States of America [see comments] Fugger EF. **Fertil Steril** 1989 Dec;52(6):986-90 Comment in: Fertil Steril 1990 May;53(5):952.
To publish or not to publish? [letter; comment] Quinn P, et al. **Fertil Steril** 1990 May;53(5):952 Comment on: Fertil Steril 1989 Dec;52(6):986-90.
Seven embryos in search of legitimacy. Shuster E. **Fertil Steril** 1990 Jun;53(6):975-7
A French homunculus in a Tennessee court. Annas GJ. **Hastings Cent Rep** 1989 Nov-Dec;19(6):20-2
Resolving disputes over frozen embryos. Robertson JA. **Hastings Cent Rep** 1989 Nov-Dec;19(6):7-12
Frozen storage of Ham's F10 medium for human in-vitro fertilization. Bernart W, et al. **Hum Reprod** 1990 Jul; 5(5):610-2
Arbitrary partitions of prenatal life. Biggers JD. **Hum Reprod** 1990 Jan;5(1):1-6 (48 ref.)
A protocol used for splitting mouse embryos into two halves. Agrawal KP, et al. **Indian J Exp Biol** 1989 Jul;27(7):607-10
The chromosomal complements of cleaved human embryos resulting from in vitro fertilization. Ma S, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):16-21
The effect of prefreeze in vitro culturing on the success of embryo freezing in mice. Pellicer A, et al. **J In Vitro Fert Embryo Transf** 1989 Jun;6(3):176-9
Response to Oderberg [letter] Buckle S. **J Med Ethics** 1990 Jun;16(2):110
Response to Buckle [letter; comment] Oderberg DS. **J Med Ethics** 1989 Sep;15(3):166 Comment on: J Med Ethics 1988 Sep;14(3):144-7.
Research on the human conceptus and its regulation in Britain today. McLaren A. **J R Soc Med** 1990 Apr;83(4):209-13 (19 ref.)
Implantation potential and fetal viability of mouse embryos cultured in media supplemented with platelet-activating factor. Ryan JP, et al. **J Reprod Fertil** 1990 May; 89(1):309-15
Cloning of embryos. Prather RS, et al. **J Reprod Fertil Suppl** 1990;40:227-34 (49 ref.)
Human embryo research [letter] Cole AP, et al. **Lancet** 1990 Apr 28;335(8696):1040
Embryo research [letter; comment] Haffner CA. **Lancet** 1990 May 26;335(8700):1284-5 Comment on: Lancet 1990 Apr 21;335(8695):943-4.
"Pre-embryos" [letter] Kelly J. **Lancet** 1990 Jan 13; 335(8681):116
Embryonic stem cell culture and gene targeting in transgenic mice. Baribault H, et al. **Mol Biol Med** 1989 Dec; 6(6):481-92 (52 ref.)
Embryo research and abortion [news] [see comments] **Nature** 1989 Oct 26;341(6244):673 Comment in: Nature 1989 Dec 21-28;342(6252):849.
Deciding about embryo research. **Nature** 1989 Nov 30; 342(6249):461-2
Embryos win rights [editorial] **Nature** 1990 Feb 15; 343(6259):577-8
Embryo research [editorial] **Nature** 1990 Apr 19; 344(6268):690
Human embryo bill. Still some life in the 'pro-lifers' [news] Aldhous P. **Nature** 1990 Jun 14;345(6276):565
Pressure stepped up on embryo research [news] Aldhous P. **Nature** 1990 Apr 19;344(6268):691
Embryo research. Pro-life actions backfire [news] Aldhous P. **Nature** 1990 May 3;345(6270):7
Research on human embryos [letter] [see comments] Crutcher KA. **Nature** 1990 Jan 4;343(6253):10 Comment in: Nature 1990 Mar 22;344(6264):284.
Embryo research [letter] Ewbank JJ. **Nature** 1990 Jan 25; 343(6256):303
IVF: regulation or prohibition? [see comments] McLaren A. **Nature** 1989 Nov 30;342(6249):469-70 Comment in: Nature 1990 Mar 8;344(6262):99.
Embryo research [letter; comment] Urban MR. **Nature** 1989 Dec 21-28;342(6252):849 Comment on: Nature 1989 Oct 26;341(6244):673.
Britain's Lords debate embryo research [news] Cherfas J. **Science** 1989 Dec 22;246(4937):1554-5
[Initial experience with cryopreservation of human embryos] Hanzelka Z, et al. **Cesk Gynekol** 1989 Dec;54(10):729-32 (Eng. Abstr.) **(Cze)**
[Intervertebral persistence of the notochord canal] Reuther G, et al. **ROFO** 1990 Jan;152(1):113-4 **(Ger)**
[Cryopreservation of mouse strains by ultrarapid freezing] Nakagata N. **Jikken Dobutsu** 1990 Apr;39(2):299-301 (Eng. Abstr.) **(Jpn)**
[Chromosome preparation technics and chromosome analysis of gametes, fertilized eggs and early embryos] Kamiguchi Y. **Rinsho Byori** 1989 Feb;Spec No 80:299-309 **(Jpn)**
[Toxicity of OP-10 for human embryo fibroblast culture] Smirnova ON, et al. **Gig Tr Prof Zabol** 1989;(8):52 **(Rus)**

ABNORMALITIES

ENU-induced allele of brachyury (Tkt1) exhibits a developmental lethal phenotype similar to the original brachyury (T) mutation. Justice MJ, et al. **J Exp Zool** 1990 Jun;254(3):286-95

ANALYSIS

Synergistic activity for high-proliferative-potential colony-forming cell (HPP-CFC) development, stable to trypsin digestion, present in pregnant mouse uterus and placenta extract. Zangheri EO, et al. **Acta Physiol Pharmacol Latinoam** 1989;39(3):315-23
Insulin-like growth factor-I expression during early conceptus development in the pig. Letcher R, et al. **Biol Reprod** 1989 Dec;41(6):1143-51
Amounts and modulation of actin mRNAs in mouse oocytes and embryos. Bachvarova R, et al. **Development** 1989 Jul; 106(3):561-5
Developmental expression of tissue inhibitor of metalloproteinase (TIMP) RNA. Nomura S, et al. **Development** 1989 Mar;105(3):575-83
Detection of H-2K mRNA in mouse 8-cell embryo by cDNA cloning. Nagata T, et al. **Idengaku Zasshi** 1988 Oct; 63(5):465-9
Isolation and identification of embryo-derived platelet-activating factor in mice. Kodama H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Jul; 41(7):899-906
[Expression of embryonal and differentiational proteins in chordomas and in the notochord] Tamayama C, et al. **Gan No Rinsho** 1990 Jan;36(1):7-12 (Eng. Abstr.) **(Jpn)**
[Biogenic monoamines in ovum cells and preimplantation embryos of mice] Sadykova KA, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):577-8 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

A fifteen-somite human embryo. Mizoguti H. **Adv Anat Embryol Cell Biol** 1989;116:1-102
An electron microscope study of the human prenatal thymus. Nenova I. **Folia Med (Plovdiv)** 1988;30(2):33-40
Some remarks on the axial skeleton in Protopterus (Pisces, Dipnoi). Bartsch P. **Gegenbaurs Morphol Jahrb** 1989; 135(3):419-26
Development and involution of the notochord in the human spine. Pazzaglia UE, et al. **J R Soc Med** 1989 Jul; 82(7):413-5
Early crown-rump length. A good predictor of gestational age. Silva PD, et al. **J Reprod Med** 1990 Jun;35(6):641-4
A comparison of transvaginal and abdominal ultrasound in visualizing the first trimester conceptus. Cullen MT, et al. **J Ultrasound Med** 1989 Oct;8(10):565-9
Sonoembryology: an organ-oriented approach using a high-frequency vaginal probe. Timor-Tritsch IE, et al. **JCU** 1990 May;18(4):286-98
Transvaginal sonography in the first trimester: embryology, anatomy, and hCG correlation. Bree RL, et al. **Semin Ultrasound CT MR** 1990 Feb;11(1):12-21
Transvaginal ultrasound embryography. Neiman HL. **Semin Ultrasound CT MR** 1990 Feb;11(1):22-33
[Echographic transvaginal diagnosis of pregnancy in the first trimester] Strizhakov AN, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):63-5 (Eng. Abstr.) **(Rus)**
[The intermediate nerve and its place in the system of cranial nerves] Lobko PI, et al. **Arkh Anat Gistol Embriol** 1989 Sep;97(9):37-46 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

The vasculature of the rat embryo: an electron microscope study. Mensah-Brown EP. **Acta Morphol Neerl Scand** 1988-89;26(4):293-303

CYTOLOGY

Microscopic examination of porcine conceptus-maternal interface between days 10 and 19 of pregnancy. Keys JL, et al. **Am J Anat** 1990 Jul;188(3):221-38
Development of 1-cell embryos from different strains of mice in CZB medium. Chatot CL, et al. **Biol Reprod** 1990 Mar; 42(3):432-40
Failure of embryonic mouse cells to engraft in immunocompetent allogeneic recipients [letter] Brent L, et al. **Br J Haematol** 1990 Apr;74(4):549-51
Measurement of developmental time by cells of early embryos. Cooke J, et al. **Cell** 1990 Mar 23;60(6):891-4 (27 ref.)
Morphological transformation and catalase activity of Syrian hamster embryo cells treated with hepatic peroxisome proliferators, TPA and nickel sulphate. Mikalsen SO, et al. **Cell Biol Toxicol** 1990 Jan;6(1):1-13
Specification of notochord cells in the ascidian embryo analysed with a specific monoclonal antibody. Nishikata T, et al. **Cell Differ Dev** 1990 Apr;30(1):43-53
Maintenance of compaction and adherent-type junctions in mouse morula-stage embryos. Reima I. **Cell Differ Dev** 1990 Feb;29(2):143-53
Cell migration in the embryo and adult organism. Erickson CA. **Curr Opin Cell Biol** 1990 Feb;2(1):67-74 (32 ref.)
Glycoconjugates as mediators of cellular interactions during development. Shur BD. **Curr Opin Cell Biol** 1989 Oct; 1(5):905-12 (22 ref.)
Analysis of the sex-chromosome constitution of digynic triploid mouse embryos. Speirs S, et al. **Cytogenet Cell Genet** 1989;52(3-4):151-3
The role of cytoplasmic determinants in embryonic development. Jeffery WR. **Dev Biol (N Y 1985)** 1988;5:3-56 (145 ref.)
Manipulation of early mammalian development: what does it tell us about cell lineages? Johnson MH. **Dev Biol (N Y 1985)** 1986;4:279-96 (57 ref.)
An in situ transgenic enzyme marker for the midgestation mouse embryo and the visualization of inner cell mass clones during early organogenesis. Beddington RS, et al. **Development** 1989 May;106(1):37-46
Pattern formation in the Drosophila embryo: allocation of cells to parasegments by even-skipped and fushi tarazu. Lawrence PA, et al. **Development** 1989 Apr;105(4):761-7
Expression of the glucose-regulated proteins (GRP94 and GRP78) in differentiated and undifferentiated mouse embryonic cells and the use of the GRP78 promoter as an expression system in embryonic cells. Kim SK, et al. **Differentiation** 1990 Feb;42(3):153-9
Death of serum-free mouse embryo cells caused by epidermal growth factor deprivation is prevented by cycloheximide, 12-O-tetradecanoylphorbol-13-acetate, or vanadate. Rawson C, et al. **Exp Cell Res** 1990 Jan;186(1):177-81
The influence of oocyte maturity and embryo quality on pregnancy rate in a program for in vitro fertilization-embryo transfer. Hill GA, et al. **Fertil Steril** 1989 Nov;52(5):801-6
"Two-step" freezing of individual blastomeres from mouse eight-cell embryos. Landa V. **Folia Biol (Praha)** 1990; 36(1):51-6
In vitro development of one-cell embryos from outbred mice: influence of culture medium composition. Spindle A. **In Vitro Cell Dev Biol** 1990 Feb;26(2):151-6
Glucocorticoid and thyroid hormones inhibit proliferation of serum-free mouse embryo (SFME) cells. Loo D, et al. **J Cell Physiol** 1990 Jan;142(1):210-7
Multi-lineage 'stem' cells in the mammalian embryo. Gardner RL, et al. **J Cell Sci Suppl** 1988;10:11-27 (133 ref.)
Regulatory factors of embryonic stem cells. Heath JK, et al. **J Cell Sci Suppl** 1988;10:257-66 (30 ref.)
Development of two-cell mouse embryos in protein-free and protein-supplemented media. Dandekar PV, et al. **J In Vitro Fert Embryo Transf** 1990 Apr;7(2):107-13
Immunohistochemical staining of bromodeoxyuridine-labelled cells in the mouse embryo. Cottell DC, et al. **J Microsc** 1989 Dec;156 (Pt 3):363-9
Histochemical identification of primordial germ cells in diandric and digynic triploid mouse embryos. Kaufman MH, et al. **Mol Reprod Dev** 1990 Apr;25(4):364-8
Time-lapse analysis and normal stages of development of cleavage and blastocyst formation in the marsupials the brown antechinus and the stripe-faced dunnart. Selwood L, et al. **Mol Reprod Dev** 1990 May;26(1):53-62
Serum amine oxidase activity contributes to crisis in mouse embryo cell lines. Parchment RE, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4340-4
Nuclear transplantation as a method for cloning embryos. Prather RS. **Proc Soc Exp Biol Med** 1990 Oct;195(1):7-12 (54 ref.)
Development of four-cell hamster embryos to the blastocyst stage in vitro and its regulation by components of the culture milieu. Monis H, et al. **Reprod Fertil Dev** 1990; 2(1):1-9
Allocation of cells to the inner cell mass and trophectoderm of 3/4 mouse embryos. Somers GR, et al. **Reprod Fertil Dev** 1990;2(1):51-9
[Differentiation of hepatic sinusoid vessel cells in rats in the embryonal and postnatal periods of ontogenesis] Vlahnevskaia EK. **Arkh Anat Gistol Embriol** 1989 Sep; 97(9):68-74 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

The effect of prolactin on murine in vitro fertilization and embryo development. Dodds WG, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1553-9; discussion 1559-61
Effects of nitrous oxide on rat embryos grown in culture [letter] Fujinaga M, et al. **Anesthesiology** 1989 Dec; 71(6):991-2
Effects of ascorbic acid on the mouse embryo and on cyclophosphamide-induced cephalic DNA strand breaks in vivo. Pillans PI, et al. **Arch Toxicol** 1990;64(5):423-5
Plasminogen activator activity of normal and retinoic acid-treated post-implantation embryos. Knoops B, et al. **Biochem Pharmacol** 1990 May 15;39(10):1545-8
Effects of cigarette smoke exposure on early stage embryos in the rat. Tachi N, et al. **Bull Environ Contam Toxicol** 1989 Sep;43(3):467-72
RU 486 interferes with egg transport and retards the in vivo and in vitro development of mouse embryos. Yang YQ, et al. **Contraception** 1990 May;41(5):551-6
Effects of cryoprotectants on actin filaments during the cryopreservation of one-cell rabbit embryos [published erratum appears in Cryobiology 1990 Jun;27(3):343-4] Vincent C, et al. **Cryobiology** 1990 Feb;27(1):9-23
Embryotoxic/teratogenic potential of halothane. Baeder C,

et al. **Int Arch Occup Environ Health** 1990;62(4):263–71 (49 ref.)
A technique for quantifying the amount of macromolecule injected into cells of the early mouse embryo. McConnell J, et al. **J Reprod Fertil** 1990 Jan;88(1):375–81
The mutagenic effect of caprolactam in the spot test with (T x HT) F1 mouse embryos. Neuhäuser-Klaus A, et al. **Mutat Res** 1989 Nov;224(3):369–71
Congenital malformations of the external, middle, and inner ear produced by isotretinoin exposure in mouse embryos. Jarvis BL, et al. **Otolaryngol Head Neck Surg** 1990 Apr; 102(4):391–401
Effects of oxygen radicals and antioxidants on CHO cells and rat embryos in culture. Anderson D, et al. **Prog Clin Biol Res** 1990;340E:361–70
Embryotoxic effects of sodium arsenite and sodium arsenate on mouse embryos in culture. Chaineau E, et al. **Teratology** 1990 Jan;41(1):105–12
In vitro developmental toxicity of five direct-acting alkylating agents in rodent embryos: structure–activity patterns. Faustman EM, et al. **Teratology** 1989 Sep; 40(3):199–210
Effect of lithium carbonate on mouse and rat embryos in vitro. Hansen DK, et al. **Teratology** 1990 Feb;41(2):155–60
Early postimplantation embryolethality in mice following in utero inhibition of adenosine deaminase with 2'-deoxycoformycin. Knudsen TB, et al. **Teratology** 1989 Dec;40(6):615–26
Relationship of DNA damage and embryotoxicity induced by 4-hydroperoxydechlorocyclophosphamide in postimplantation rat embryos. Little SA, et al. **Teratology** 1990 Feb;41(2):223–31
Embryotoxicity of the intercalating agents m-AMSA and o-AMSA and the epipodophyllotoxin VP-16 in postimplantation rat embryos in vitro. Mirkes PE, et al. **Teratology** 1990 Jun;41(6):679–88
Morphological and physiological effects of beta-hydroxybutyrate on rat embryos grown in vitro at different stages. Moore DC, et al. **Teratology** 1989 Sep; 40(3):237–51
Effects of thyroid antagonists on rat embryos cultured in vitro. Stanisstreet M, et al. **Teratology** 1990 Jun;41(6):721–9
Chemically induced growth inhibition and cell cycle perturbations in cultures of differentiating rodent embryonic cells. Ribeiro PL, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):200–11
Modulation of the embryotoxicity and cytotoxicity elicited by 7-hydroxy-2-acetylaminofluorene and acetaminophen via deacetylation. Stark KL, et al. **Toxicol Appl Pharmacol** 1989 Mar 1;97(3):548–60
Effects of dietary sodium selenite supplementation on salicylate-induced embryo- and fetotoxicity in the rat. Bergman K, et al. **Toxicology** 1990 Apr 17;61(2):135–46
Comparative embryotoxicity of selenite and selenate: uptake in murine embryonal and fetal tissues and effects on blastocysts and embryonic cells in vitro. Danielsson BR, et al. **Toxicology** 1990 Aug;63(2):123–36
Effects of toxin T-544 from the Karwinskia humboldtiana (buckthorn) plant upon mouse embryos explanted at 11 days. Martinez de Villarreal L, et al. **Toxicon** 1990; 28(4):449–52
[Morphological observation of termination of early pregnancy with anordrin in mice] Ou KQ, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):270–2 (Eng. Abstr.) (Chi)
[Studies on anordrin injection for termination of early pregnancy in mice] Zhao FY, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):266–9 (Eng. Abstr.) (Chi)
[Comparative evaluation of the embryotoxic effect of various antibiotics] Skosyreva AM. **Antibiot Khimioter** 1989 Oct; 34(10):779–82 (Eng. Abstr.) (Rus)
[Long-term results of formaldehyde] Bektemirova RM, et al. **Gig Sanit** 1990 Apr;(4):36–9 (Eng. Abstr.) (Rus)
[Embryotoxic and teratogenic effects of alkaline protease and a synthetic enzyme-containing detergent] Voloshchenko OI, et al. **Gig Sanit** 1990 Apr;(4):39–40 (Rus)

EMBRYOLOGY

Manifestation of diabetes mellitus on mouse follicular and pre-embryo development: effect of hyperglycemia per se. Diamond MP, et al. **Metabolism** 1990 Mar;39(3):220–4

ENZYMOLOGY

Effects of hepatic peroxisome proliferators and 12-O-tetradecanoyl phorbol-13-acetate on catalase and other enzyme activities of embryonic cells in vitro. Mikalsen SO, et al. **Biochem Pharmacol** 1990 Feb 1; 39(3):527–35
Immunodetection, immunoinhibition, immunoquantitation and biochemical analyses of cytochrome P-450IA1 in tissues of the ratoffceptus during the progression of organogenesis. Yang HY, et al. **Biochem Pharmacol** 1989 Nov 15;38(22):4027–36
Immunohistochemistry of superoxide dismutase-1 in developing human brain. Takashima S, et al. **Brain Dev** 1990;12(2):211–3
Genetic differences in glucose phosphate isomerase activity among mouse embryos. West JD, et al. **Development** 1989 Nov;107(3):465–72
Trypsin-like hatching protease from mouse embryos: evidence for the presence in culture medium and its enzymatic properties. Sawada H, et al. **J Exp Zool** 1990 Apr;254(1):83–7
Transfer of a mutant dihydrofolate reductase gene into pre- and postimplantation mouse embryos by a replication-competent retrovirus vector. Stuhlmann H, et al. **J Virol** 1989 Nov;63(11):4857–65

GROWTH & DEVELOPMENT

Blastocyst implantation in the Chinese hamster (Cricetulus griseus). Blankenship TN, et al. **Am J Anat** 1990 Feb; 187(2):137–57
Bovine 1–2-cell embryo development using a simple medium in three oviduct epithelial cell coculture systems. Ellington JE, et al. **Biol Reprod** 1990 Jul;43(1):97–104
Specific spatial and temporal distribution of retinoic acid receptor gamma transcripts during mouse embryogenesis. Ruberte E, et al. **Development** 1990 Feb;108(2):213–22
A reassessment of pregnancy staging. Pringle KC. **Fetal Ther** 1988;3(3):173–84
Cytogenetic analysis and developmental capacity of normal and abnormal embryos after IVF. Plachot M, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):99–103
The effect of macromolecular rat serum fractions on conceptuses cultured in human serum: role of transferrin. Gulamhusein AP, et al. **J Anat** 1990 Feb;168:113–21
Whole rat embryos require methionine for neural tube closure when cultured on cow serum. Coelho CN, et al. **J Nutr** 1989 Nov;119(11):1716–25
Plasma progesterone concentrations during pregnancy in the dasyurid marsupial, Antechinus stuartii: relationship with differentiation of the embryo. Hinds LA, et al. **Reprod Fertil Dev** 1990;2(1):61–70

IMMUNOLOGY

Uterine large granular lymphocytes: a possible role in embryonic implantation? King A, et al. **Am J Obstet Gynecol** 1990 Feb;162(2):308–10
Induction of tolerance by embryonic thymic epithelial grafts in birds and mammals. Le Douarin NM, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 2:777–87
The immunological approach to the study of preimplantation mammalian development. Banka CL, et al. **Dev Biol (N Y 1985)** 1986;4:353–81 (127 ref.)
[Which immunologic mechanisms facilitate a successful pregnancy] Desoye G, et al. **Arch Gynecol Obstet** 1989; 245(1–4):146–8 (Eng. Abstr.) (Ger)
[Expression of histocompatibility antigens in human pre-implantation embryos] Kessler HH, et al. **Arch Gynecol Obstet** 1989;245(1–4):161–2 (Eng. Abstr.) (Ger)

INNERVATION

Development of the innervation pattern in the upper limb of staged human embryos. Shinohara H, et al. **Acta Anat (Basel)** 1990;138(3):265–9

METABOLISM

Atrial natriuretic factor in the heart of the human embryo. Larsen TH. **Acta Anat (Basel)** 1990;138(2):132–6
Immunohistochemical detection of an epithelial membrane protein in rat embryos at different stages of development. Tarmann T, et al. **Acta Anat (Basel)** 1990;137(2):141–5
Arrest of cytochrome-c oxidase synthesis coordinated with catabolic arrest in dormant Artemia embryos. Hofmann GE, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1184–91
Human embryonic origin early pregnancy factor before and after implantation. Nahhas F, et al. **Am J Reprod Immunol** 1990 Mar–Apr;22(3–4):105–8
Sequence and expression of two regulated transcription units during Drosophila melanogaster development: Deb-A and Deb-B. Vincent WS 3d, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):59–68
Cellular localization of an embryonic interferon, ovine trophoblastin and its mRNA in sheep embryos during early pregnancy. Guillomot M, et al. **Biol Cell** 1990;68(3):205–11
Sodium/potassium adenosine triphosphatase alpha-subunit and alpha-subunit mRNA levels in early rabbit embryos. Gardiner CS, et al. **Biol Reprod** 1990 Mar;42(3):539–44
Retinol-binding protein: a major secretory product of the pig conceptus. Harney JP, et al. **Biol Reprod** 1990 Mar; 42(3):523–32
c-pathway polysialogangliosides in the nervous tissue of vertebrates, reacting with the monoclonal antibody Q211. Greis C, et al. **Brain Res** 1990 May 28;517(1–2):105–10
Developmental brain abnormalities accompanied with the retarded production of S-100 beta protein in genetic polydactyly mice. Naruse I, et al. **Brain Res Dev Brain Res** 1990 Feb 1;51(2):253–8
Presence of high molecular weight glycans on the surface of germ and embryonic cells of Xenopus laevis. Goldfinger M, et al. **Cell Biol Int Rep** 1989 Nov;13(11):949–55
Comparative metabolic responses to prolonged cooling in precocial duck (Anas domestica) and altricial pigeon (Columba domestica) embryos. Kuroda O, et al. **Comp Biochem Physiol [A]** 1990;95(3):407–10
Regulation of the murine alpha A-crystallin promoter in transgenic mice. Wawrousek EF, et al. **Dev Biol** 1990 Jan; 137(1):68–76
Ganglioside GM1 elevation in DBA/2 mouse embryos. Bouvier JD, et al. **Dev Neurosci** 1990;12(2):126–32
The small nuclear RNAs for pre-mRNA splicing are coordinately regulated during oocyte maturation and early embryogenesis in the mouse. Dean WL, et al. **Development** 1989 Jun;106(2):325–34
Gene expression during mammalian oogenesis and early embryogenesis: quantification of three messenger RNAs abundant in fully grown mouse oocytes. Roller RJ, et al. **Development** 1989 Jun;106(2):251–61
Desmin and titin expression in early postimplantation mouse embryos. Schaart G, et al. **Development** 1989 Nov; 107(3):585–96
Uptake of myo-inositol by early-somite rat conceptus. Transport kinetics and effects of hyperglycemia. Weigensberg MJ, et al. **Diabetes** 1990 May;39(5):575–82
Appearance and distribution of laminin during development of Xenopus laevis. Fey J, et al. **Differentiation** 1990 Feb; 42(3):144–52
XK endo B is preferentially expressed in several induced embryonic tissues during the development of Xenopus laevis. LaFlamme SE, et al. **Differentiation** 1990 Mar; 43(1):1–9
The uptake of [3H] glucosamine-labelled glycoconjugates into the perivitelline space of preimplantation mouse embryos. Fowler RE, et al. **Hum Reprod** 1989 Oct; 4(7):821–5
A method for studying rat embryonic metabolism by microcannulation of the vitelline circulation. Mensah-Brown EP, et al. **J Anat** 1989 Apr;163:123–34
Immunolocalization of epidermal growth factor receptors in normal developing human skin. Nanney LB, et al. **J Invest Dermatol** 1990 Jun;94(6):742–8
Further studies on the changes of chicken brain gangliosides during prenatal and postnatal life. Sonnino S, et al. **J Neurochem** 1990 May;54(5):1653–60
Two-dimensional polyacrylamide gel electrophoresis of proteins synthesized and released by conceptuses and endometria from pony mares. McDowell KJ, et al. **J Reprod Fertil** 1990 May;89(1):107–15
Prostaglandin production by horse embryos and the effect of co-culture of embryos with endometrium from pregnant mares. Watson ED, et al. **J Reprod Fertil** 1989 Sep; 87(1):331–6
Embryonic steroids and the establishment of pregnancy in pigs. Geisert RD, et al. **J Reprod Fertil Suppl** 1990; 40:293–305 (89 ref.)
Low molecular weight lipid-soluble luteotrophic factor(s) produced by conceptuses in cows. Hansel W, et al. **J Reprod Fertil Suppl** 1989;37:11–7
Embryo-derived platelet-activating factor. O'Neill C, et al. **J Reprod Fertil Suppl** 1989;37:19–27 (54 ref.)
Developmental changes in free D-aspartic acid in the chicken embryo and in the neonatal rat. Neidle A, et al. **Life Sci** 1990;46(21):1517–22
Epidermal growth factor modulates release of arachidonic acid from embryonic cells. Chepenik KP. **Lipids** 1989 Sep; 24(9):829–32
Theoretical mechanisms for synthesis of carcinogen-induced embryonic proteins: XXIII. Enhancer theory. Hancock RL. **Med Hypotheses** 1989 Nov;30(3):187–94 (39 ref.)
Complementary DNA cloning of the murine transforming growth factor-beta 3 (TGF beta 3) precursor and the comparative expression of TGF beta 3 and TGF beta 1 messenger RNA in murine embryos and adult tissues. Miller DA, et al. **Mol Endocrinol** 1989 Dec;3(12):1926–34
Characterization of the antiviral activity constitutively produced by murine conceptuses: absence of placental mRNAs for interferon alpha and beta. Cross JC, et al. **Mol Reprod Dev** 1990 Jun;26(2):122–8
Quantitative changes in cytoskeletal beta- and gamma-actin mRNAs and apparent absence of sarcomeric actin gene transcripts in early mouse embryos. Taylor KD, et al. **Mol Reprod Dev** 1990 Jun;26(2):111–21
A POU-domain transcription factor in early stem cells and germ cells of the mammalian embryo. Rosner MH, et al. **Nature** 1990 Jun 21;345(6277):686–92
Embryonic and postnatal development of N-(1-[2-thienyl]cyclohexyl)[3H]piperidine binding sites in rat forebrain homogenates and slices. Shinohara K, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):307–12
Incorporation of glucose by the sheep conceptus between days 13 and 19 of pregnancy. Wales RG, et al. **Reprod Fertil Dev** 1989;1(2):137–45
Marked accumulation of valproic acid in embryonic neuroepithelium of the mouse during early organogenesis. Dencker L, et al. **Teratology** 1990 Jun;41(6):699–706
Chloride transport in embryonic cells: effect of ethanol and GABA. Zimmerman EF, et al. **Teratology** 1989 Dec; 40(6):593–601
Reduction of embryonic intracellular pH: a potential mechanism of acetazolamide-induced limb malformations. Scott WJ, et al. **Toxicol Appl Pharmacol** 1990 Apr; 103(2):238–54

MICROBIOLOGY

Isolation of Mycoplasma bovis from intact and microinjected preimplantation bovine embryos washed or treated with trypsin or antibiotics. Bielanski A, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):236–41
Natural infection of duck embryos with duck hepatitis B virus: time and tissue sequence of infection. Dixon RJ, et al. **J Med Virol** 1989 Dec;29(4):303–7

PATHOLOGY

Survival and cell acquisition rates after preimplantation embryo biopsy: use of two mechanical techniques and two mouse strains. Roudebush WE, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1084–90

Embryopathic effects of short-term exposure to hypoglycemia in mouse embryos in vitro. Smoak IW, et al. **Am J Obstet Gynecol** 1990 Aug;163(2):619–24

Nuclear transfer from teratocarcinoma cells into mouse oocytes and eggs. Modlinski JA, et al. **Development** 1990 Feb;108(2):337–48

Early detection of pathologic pregnancy by transvaginal sonography. Goldstein SR. **JCU** 1990 May;18(4):262–73

[Species differentiation by placental morphology with human and animal tissue. A contribution to species determination in relation to embryo findings] Thomsen H, et al. **Arch Kriminol** 1990 Jan–Feb;185(1–2):35–43 (Eng. Abstr.) (Ger)

[Pathology of amniogenesis in the early prenatal period of human development] Kulazhenko VP, et al. **Arkh Anat Gistol Embriol** 1989 Aug;97(8):58–64 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Ultrastructural aspects of the production of extracellular matrix components by the chick embryonic notochord in vitro. Camón J, et al. **Acta Anat (Basel)** 1990;137(2):114–23

Growth-promoting properties of the internal milieu of pregnant and lactating rats. Chiang M, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E98–102

Do inductive developmental interactions or immune reactions decide the success or failure of interspecific gestations? Markert CL. **Am J Reprod Immunol** 1989 May;20(1):27–8

Effect of dietary crude-protein type on fertilization and embryo quality in dairy cattle. Blanchard T, et al. **Am J Vet Res** 1990 Jun;51(6):905–8

Development of porcine embryos from one- and two-cell stages to blastocysts in culture medium supplemented with porcine oviductal fluid. Archibong AE, et al. **Biol Reprod** 1989 Dec;41(6):1076–83

Embryos of different ages transferred to the rat oviduct enter the uterus at different times. Ortiz ME, et al. **Biol Reprod** 1989 Sep;41(3):381–4

Genetic control of survival of frozen mouse embryos. Pomp D, et al. **Biol Reprod** 1990 May–Jun;42(5–6):775–86

Suppression of lymphocyte reactivity by culture supernatant from horse embryos and endometrium. Watson ED. **Biol Reprod** 1990 Feb;42(2):294–300

Growth factors in embryogenesis. Heath JK, et al. **Br Med Bull** 1989 Apr;45(2):319–36 (78 ref.)

Potassium currents in chick sensory neurons change with development. Westbrook CD, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):1–10

The chemical basis of morphogenesis. 1953 [classical article] Turing AM. **Bull Math Biol** 1990;52(1–2):153–97; discussion 119–52

Androgenetic mouse embryonic stem cells are pluripotent and cause skeletal defects in chimeras: implications for genetic imprinting. Mann JR, et al. **Cell** 1990 Jul 27; 62(2):251–60

Cytoskeleton and embryo polarity. Elinson RP. **Curr Opin Cell Biol** 1990 Feb;2(1):75–9 (22 ref.)

Selective expression of PDGF A and its receptor during early mouse embryogenesis. Mercola M, et al. **Dev Biol** 1990 Mar;138(1):114–22

Expression of transforming growth factor beta 2 during the differentiation of murine embryonal carcinoma and embryonic stem cells. Mummery CL, et al. **Dev Biol** 1990 Jan;137(1):161–70

On the formation of somites. Lash JW, et al. **Dev Biol (N Y 1985)** 1986;2:547–63 (66 ref.)

An assessment of the developmental potential of embryonic stem cells in the midgestation mouse embryo. Beddington RS, et al. **Development** 1989 Apr;105(4):733–7

How embryos work: a comparative view of diverse modes of cell fate specification. Davidson EH. **Development** 1990 Mar;108(3):365–89 (200 ref.)

The developmental expression of the heat-shock response in Xenopus laevis. Davis RE, et al. **Development** 1989 Feb; 105(2):213–22

Expression of intermediate filament proteins during development of Xenopus laevis. II. Identification and molecular characterization of desmin. Herrmann H, et al. **Development** 1989 Feb;105(2):299–307

Localization of c-myc expression during oogenesis and embryonic development in Xenopus laevis. Hourdry J, et al. **Development** 1988 Dec;104(4):631–41

Regulated splicing in early development and stage-specific U snRNPs. Mattaj IW, et al. **Development** 1989 Feb; 105(2):183–9 (51 ref.)

Differential timing of nuclear lamin A/C expression in the various organs of the mouse embryo and the young animal: a developmental study. Röber RA, et al. **Development** 1989 Feb;105(2):365–78

Insulin and insulin-like growth factor I (IGF I) in early mouse embryogenesis. Spaventi R, et al. **Development** 1990 Mar;108(3):491–5

Effect of the notochord on proliferation and differentiation in the neural tube of the chick embryo. van Straaten HW, et al. **Development** 1989 Dec;107(4):793–803

Effects of brief exposure to insulin-induced hypoglycemic serum during organogenesis in rat embryo culture. Akazawa M, et al. **Diabetes** 1989 Dec;38(12):1573–8

Influence of sorbitol accumulation on growth and development of embryos cultured in elevated levels of glucose and fructose. Eriksson UJ, et al. **Diabetes Res** 1989 May;11(1):27–32

A murine even-skipped homologue, Evx 1, is expressed during early embryogenesis and neurogenesis in a biphasic manner. Bastian H, et al. **EMBO J** 1990 Jun;9(6):1839–52

Restoration of the responsiveness to growth factors in senescent cells by an embryonic cell extract. Amtmann E, et al. **Exp Cell Res** 1990 Aug;189(2):202–7

The perinotochordal mesenchyme acts as a barrier to axon advance in the chick embryo: implications for a general mechanism of axonal guidance. Tosney KW, et al. **Exp Neurol** 1990 Jul;109(1):75–89

Survival and pregnancy outcome after ultrarapid freezing of human embryos. Gordts S, et al. **Fertil Steril** 1990 Mar; 53(3):469–72

Can sperm capture foreign DNA for expression in the embryo? [letter; comment] Witkin SS. **Fertil Steril** 1989 Oct;52(4):692–3 Comment on: Fertil Steril 1989 May;51(5):756–8.

Assessment of the viability and pregnancy potential of mouse embryos biopsied at different preimplantation stages of development. Krzyminska UB, et al. **Hum Reprod** 1990 Feb;5(2):203–8

The potential of early human embryos to form blastocysts, hatch from their zona and secrete HCG in culture. Lopata A, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):87–94

Assessment of embryonic quality. Michelmann HW. **Hum Reprod** 1989 Nov;4(8 Suppl):95–8

Cytogenetic analysis of biopsied preimplantation mouse embryos: implications for prenatal diagnosis. Roberts C, et al. **Hum Reprod** 1990 Feb;5(2):197–202

Survival of mouse embryos after being frozen in glycerol-sucrose mixture. Agrawal KP, et al. **Indian J Exp Biol** 1989 May;27(5):474–5

Cryopreservation of mouse embryos at −196 degrees C by vitrification. Agrawal KP, et al. **Indian J Exp Biol** 1989 Apr;27(4):383–4

Plasminogen activators in tissue remodeling and invasion: mRNA localization in mouse ovaries and implanting embryos. Sappino AP, et al. **J Cell Biol** 1989 Nov; 109(5):2471–9

Cellular distribution of smooth muscle actins during mammalian embryogenesis: expression of the alpha-vascular but not the gamma-enteric isoform in differentiating striated myocytes. Sawtell NM, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2929–37

Identical embryopathogenesis for exencephaly and myeloschisis: an experimental study. Oi S, et al. **J Neurosurg** 1990 Mar;72(3):450–7

Influence of embryonic and maternal genotype on gestational events in the mouse. Barkley MS, et al. **J Reprod Fertil** 1990 May;89(1):285–91

Effects of superovulation, embryo recovery, culture system and embryo transfer on development of rabbit embryos in vivo and in vitro. Carney EW, et al. **J Reprod Fertil** 1990 Jul;89(2):543–51

Embryonic development of fertilized rat oocytes induced to mature by an analogue of gonadotrophin-releasing hormone. Shalgi R, et al. **J Reprod Fertil** 1990 Jul; 89(2):681–7

Control of first cleavage in single-cell reconstituted mouse embryos. Smith LC, et al. **J Reprod Fertil** 1990 Mar; 88(2):655–63

Developmental expression of myeloid leukemia inhibitory factor gene in preimplantation blastocysts and in extraembryonic tissue of mouse embryos. Conquet F, et al. **Mol Cell Biol** 1990 Jul;10(7):3801–5

Identification of a novel isoform of the retinoic acid receptor gamma expressed in the mouse embryo. Giguère V, et al. **Mol Cell Biol** 1990 May;10(5):2335–40

Use of a HpaII-polymerase chain reaction assay to study DNA methylation in the Pgk-1 CpG island of mouse embryos at the time of X-chromosome inactivation. Singer-Sam J, et al. **Mol Cell Biol** 1990 Sep;10(9):4987–9

Local effect of the rabbit embryo-foetus on uterine progesterone and pregnenolone levels. Dugré FJ, et al. **Mol Cell Endocrinol** 1989 Jul;64(2):251–5

Subzonal transfer of multiple sperm (MIST) into early human embryos. Ng SC, et al. **Mol Reprod Dev** 1990 Jul; 26(3):253–60

Targeted replacement of the homeobox gene Hox-3.1 by the Escherichia coli lacZ in mouse chimeric embryos. Le Mouellic H, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4712–6

Regulatory elements in the introns of the human HPRT gene are necessary for its expression in embryonic stem cells. Reid LH, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(11):4299–303

Oocyte maturation, fertilization and early development in mammals. 3rd Franco-Czechoslovak Meeting. Jouy-en-Josas, 13–14 December 1988. **Reprod Nutr Dev** 1989;29(5):521–616

[Developmental capacity of human embryos after cryopreservation in the unicellular zygote stage] Tesařík J, et al. **Cesk Gynekol** 1989 Dec;54(10):740–7 (Eng. Abstr.) (Cze)

[Morphologic characteristics of the development of embryos in the preimplantation phase of the process of extracorporeal fertilization] Khil'kevich LV, et al. **Akush Ginekol (Mosk)** 1989 Aug;(8):39–43 (Eng. Abstr.) (Rus)

[Embryological aspects of the program of in vitro fertilization and embryo transfer in humans] Khil'kevich LV, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):51–6 (Rus)

RADIATION EFFECTS

A method for estimating embryo doses resulting from computed tomographic examinations. Panzer W, et al. **Br J Radiol** 1989 Oct;62(742):936–9

Embryonic mutation as a possible cause of in utero carcinogenesis in mice revealed by postnatal treatment with 12-O-tetradecanoylphorbol-13-acetate [published erratum appears in Cancer Res 1990 Jun 1;50(11):3466] Nomura T, et al. **Cancer Res** 1990 Apr 1;50(7):2135–8

Elevated expression of proto-oncogenes accompany enhanced induction of heat-shock genes after exposure of rat embryos in utero to ionizing irradiation. Higo H, et al. **Teratogenesis Carcinog Mutagen** 1989;9(4):191–8

[Effect of a non-homogenous constant magnetic field on reproductive function] Gritsiuk VI, et al. **Gig Sanit** 1989 Aug;(8):83–4 (Rus)

SECRETION

Regulation of uterine and conceptus secretory activity in the pig. Simmen RC, et al. **J Reprod Fertil Suppl** 1990; 40:279–92 (74 ref.)

SURGERY

Increase in calf production by the transfer of bisected bovine embryos. Seike N, et al. **Nippon Juigaku Zasshi** 1989 Dec; 51(6):1193–9

[Increasing the superovulatory effect in heifers by trans-zonal bisection of embryos in practice] Lopatářová M, et al. **Vet Med (Praha)** 1989 Nov;34(11):641–50 (Eng. Abstr.) (Cze)

ULTRASTRUCTURE

Morphology of day 7 bovine demi-embryos during in vitro reorganization. Albihn A, et al. **Acta Anat (Basel)** 1990; 138(1):42–9

Potentiation by the lithium ion of morphogenetic responses to a Xenopus inducing factor. Cooke J, et al. **Development** 1989 Mar;105(3):549–58

Influence of diandric and digynic triploid genotypes on early mouse embryogenesis. Kaufman MH, et al. **Development** 1989 Jan;105(1):137–45

Cytokeratin filaments are present in golden hamster oocytes and early embryos. Plancha CE, et al. **Differentiation** 1989 Oct;42(1):1–9

Polypronuclear embryos after in vitro fertilization. Dandekar PV, et al. **Fertil Steril** 1990 Mar;53(3):510–4

Nuclear transfer in mammalian embryos. Prather RS, et al. **Int Rev Cytol** 1990;120:169–90 (125 ref.)

Primary neurulation in teleosts—evidence for epithelial genesis of central nervous tissue as in other vertebrates. Reichenbach A, et al. **J Hirnforsch** 1990;31(2):153–8

Nucleolus organizer regions and nucleoli in mammalian embryos. King WA, et al. **J Reprod Fertil Suppl** 1989; 38:63–71 (48 ref.)

Immunocytochemical localization of histones H2B, H3 and H4 in pronuclei and four-cell stages of porcine embryos. Preliminary results. Rozinek J, et al. **Reprod Nutr Dev** 1989; 29(5):577–87

[Karyometric characteristics of the accessory apparatus of the eye in embryonal histogenesis] Brusilovskiĭ AI, et al. **Arkh Anat Gistol Embriol** 1989 Jul;97(7):32–9 (Eng. Abstr.) (Rus)

[Development and ultrastructure of the neuromuscular junction in bronchial smooth muscle tissue] Zashikhin AL. **Arkh Anat Gistol Embriol** 1989 Jul;97(7):80–5 (Eng. Abstr.) (Rus)

[The ultrastructure and argentophilic properties of the nucleolus organizer and centromeric regions of the chromosomes in early mouse embryogenesis] Zatsepina OV, et al. **Tsitologiia** 1989 Jun;31(6):626–32 (Eng. Abstr.) (Rus)

EMBRYO, CHICK see CHICK EMBRYO

EMBRYO DEVELOPMENT see FETAL DEVELOPMENT

EMBRYO, NON-MAMMALIAN

ABNORMALITIES

Interference with function of a homeobox gene in Xenopus embryos produces malformations of the anterior spinal cord. Wright CV, et al. **Cell** 1989 Oct 6;59(1):81–93

ANALYSIS

Gangliosides of sea urchin embryos. Their localization and participation in early development. Zvezdina ND, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):189–94

Immunological studies on gamma crystallins from Xenopus: localization, tissue specificity and developmental expression of proteins. Shastry BS. **Exp Eye Res** 1989 Sep;49(3):361–9

Posterior localization of vasa protein correlates with, but is not sufficient for, pole cell development. Lasko PF, et al.

Genes Dev 1990 Jun;4(6):905–21

CYTOLOGY

Determination of cell fate in sea urchin embryos. Livingston BT, et al. Bioessays 1990 Mar;12(3):115–9 (23 ref.)
Cell division phenotype and commitment: the evidence from Drosophila. Wilkins AS. Bioessays 1990 Jan;12(1):34–6 (9 ref.)
The three postblastoderm cell cycles of Drosophila embryogenesis are regulated in G2 by string. Edgar BA, et al. Cell 1990 Aug 10;62(3):469–80
[Electric coupling of frog embryo cells] Kvavilashvili ISh, et al. Biofizika 1990 Mar-Apr;35(2):363–6 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Brief cytochalasin-induced disruption of microfilaments during a critical interval in 1-cell C. elegans embryos alters the partitioning of developmental instructions to the 2-cell embryo. Hill DP, et al. Development 1990 Jan;108(1):159–72
Differential expression of heat shock proteins in Drosophila embryonic cells following metal ion exposure. Bournias-Vardiabasis N, et al. Exp Cell Res 1990 Aug; 189(2):177–82

ENZYMOLOGY

Biosynthesis and secretion of the hatching enzyme during sea urchin embryogenesis. Roe JL, et al. J Biol Chem 1990 May 25;265(15):8704–11

GROWTH & DEVELOPMENT

Developmental analysis of grandchildless (gs(1)N441) mutation in Drosophila melanogaster; abnormal formation of pole cells. Niki Y. Idengaku Zasshi 1988 Feb;63(1):23–32
The avian embryo as a model for early developmental endocrinology. Murphy MJ, et al. J Exp Zool Suppl 1990; 4:177–80 (19 ref.)
[Embryonic induction and development of the ultimobranchial body in the embryogenesis of amphibia] Besova NV, et al. Arkh Anat Gistol Embriol 1989 Oct; 97(10):70–6 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Induction of tolerance by embryonic thymic epithelial grafts in birds and mammals. Le Douarin NM, et al. Cold Spring Harb Symp Quant Biol 1989;54 Pt 2:777–87
Location of hemopoietic stem cells influences frequency of lymphoid engraftment in Xenopus embryos. Turpen JB, et al. J Immunol 1989 Dec 1;143(11):3455–60

METABOLISM

Expression of microinjected hsp 70/CAT and hsp 30/CAT chimeric genes in developing Xenopus laevis embryos. Krone PH, et al. Development 1989 Jun;106(2):271–81
Muscle-specific (CArG) and serum-responsive (SRE) promoter elements are functionally interchangeable in Xenopus embryos and mouse fibroblasts. Taylor M, et al. Development 1989 May;106(1):67–78
Studies on controlled and released respiration in animal and vegetal halves of the embryo of the sea urchin, Paracentrotus lividus. De Vincentiis M, et al. Exp Cell Res 1966 Mar;41(3):535–44
Control of programmed cyclin destruction in a cell-free system. Luca FC, et al. J Cell Biol 1989 Nov; 109(5):1895–909
Immunolocalization of hyalin in sea urchin eggs and embryos using an antihyalin-specific monoclonal antibody. Vater CA, et al. Mol Reprod Dev 1990 Mar;25(3):215–26
Targeted degradation of mRNA in Xenopus oocytes and embryos directed by modified oligonucleotides: studies of An2 and cyclin in embryogenesis. Dagle JM, et al. Nucleic Acids Res 1990 Aug 25;18(16):4751–7
A bovine papillomavirus type-1 (BPV-1) containing plasmid replicates extrachromosomally in Xenopus embryos. Schmid M, et al. Nucleic Acids Res 1990 Apr 25;18(8):2196
The stability, toxicity and effectiveness of unmodified and phosphorothioate antisense oligodeoxynucleotides in Xenopus oocytes and embryos. Woolf TM, et al. Nucleic Acids Res 1990 Apr 11;18(7):1763–9
A voltage-dependent chloride current linked to the cell cycle in ascidian embryos. Block ML, et al. Science 1990 Mar 2;247(4946):1090–2
[Identification of catecholamines in the rat brain and mollusk tissues using semithin slices and retrograde staining] Prudnikov IM, et al. Fiziol Zh 1989 Nov-Dec;35(6):98–100 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Mobilization of calcium, phosphorus, and magnesium by embryonic alligators (Alligator mississippiensis). Packard MJ, et al. Am J Physiol 1989 Dec;257(6 Pt 2):R1541–7
A cascading development model for amphibian embryos. Yates K, et al. Bull Math Biol 1989;51(5):549–78
Induction and early amphibian development. Smith JC. Curr Opin Cell Biol 1989 Dec;1(6):1061–70 (38 ref.)
Segregation of oral from aboral ectoderm precursors is completed at fifth cleavage in the embryogenesis of Strongylocentrotus purpuratus. Cameron RA, et al. Dev Biol 1990 Jan;137(1):77–85
The regulation of primary mesenchyme cell patterning. Ettensohn CA. Dev Biol 1990 Aug;140(2):261–71
Talin and vinculin in the oocytes, eggs, and early embryos of Xenopus laevis: a developmentally regulated change in distribution. Evans JP, et al. Dev Biol 1990 Feb; 137(2):403–13
Differential keratin gene expression during the differentiation of the cement gland of Xenopus laevis. LaFlamme SE, et al. Dev Biol 1990 Feb;137(2):414–8
Exogenous tenascin inhibits mesodermal cell migration during amphibian gastrulation. Riou JF, et al. Dev Biol 1990 Feb;137(2):305–17
Molecular approach to dorsoanterior development in Xenopus laevis. Sato SM, et al. Dev Biol 1990 Jan; 137(1):135–41
Loss of yolk platelets and yolk glycoproteins during larval development of the sea urchin embryo. Scott LB, et al. Dev Biol 1990 Feb;137(2):368–77
Changes in junctional communication associated with cell cycle arrest and differentiation of trochoblasts in embryos of Patella vulgata. Serras F, et al. Dev Biol 1990 Jan; 137(1):207–16
Myosin heavy chain accumulates in dissimilar cell types of the macromere lineage in the sea urchin embryo. Wessel GM, et al. Dev Biol 1990 Aug;140(2):447–54
The development of identified neurosecretory cells in the tobacco hornworm, Manduca sexta. Westbrook AL, et al. Dev Biol 1990 Aug;140(2):291–9
Expression of an engrailed-related protein is induced in the anterior neural ectoderm of early Xenopus embryos. Brivanlou AH, et al. Development 1989 Jul;106(3):611–7
Xenopus mesoderm induction: evidence for early size control and partial autonomy for pattern development by onset of gastrulation. Cooke J. Development 1989 Jul; 106(3):519–29
An abundant U6 snRNP found in germ cells and embryos of Xenopus laevis. Hamm J, et al. EMBO J 1989 Dec 20; 8(13):4179–87
Proliferation of primordial germ cells of frogs stimulated by a fraction of granules derived from Rana nigromaculata embryos at the tail-bud stage. Shirane T. Experientia 1989 Dec 1;45(11–12):1140–2
Spinal cord-muscle relations: their role in neuro-muscular development in birds. Gardahaut MF, et al. Int J Dev Biol 1990 Mar;34(1):181–9 (48 ref.)
Genes and mechanisms involved in early embryonic development in Xenopus laevis. Méchali M, et al. Int J Dev Biol 1990 Mar;34(1):51–9
Differential regulation of the levels of three gap junction mRNAs in Xenopus embryos. Gimlich RL, et al. J Cell Biol 1990 Mar;110(3):597–605
Cycling of intracellular pH during cell division of Xenopus embryos is a cytoplasmic activity depending on protein synthesis and phosphorylation. Grandin N, et al. J Cell Biol 1990 Aug;111(2):523–32
Inhibition of glycoprotein processing blocks assembly of spicules during development of the sea urchin embryo. Kabakoff B, et al. J Cell Biol 1990 Aug;111(2):391–400
Characterization of a maternal type VI collagen in Xenopus embryos suggests a role for collagen in gastrulation. Otte AP, et al. J Cell Biol 1990 Jul;111(1):271–8
Reptilian embryos: a model for sex determination and sexual differentiation in amniotes. Gutzke WH. J Exp Zool Suppl 1990;4:161–3 (14 ref.)
Most of the homeobox-containing Xhox 36 transcripts in early Xenopus embryos cannot encode a homeodomain protein. Condie BG, et al. Mol Cell Biol 1990 Jul; 10(7):3376–85
Stability of maternal mRNA in Xenopus embryos: role of transcription and translation. Duval C, et al. Mol Cell Biol 1990 Aug;10(8):4123–9
Translocation of a store of maternal cytoplasmic c-myc protein into nuclei during early development. Gusse M, et al. Mol Cell Biol 1989 Dec;9(12):5395–403
The 5' untranslated region of mRNA for ribosomal protein S19 is involved in its translational regulation during Xenopus development. Mariottini P, et al. Mol Cell Biol 1990 Feb;10(2):816–22
Two distinct Xenopus genes with homology to MyoD1 are expressed before somite formation in early embryogenesis. Scales JB, et al. Mol Cell Biol 1990 Apr;10(4):1516–24
Cytological effects of the microinjection of antibody to ras p21 in early cleavage Xenopus embryos. Miron MJ, et al. Mol Reprod Dev 1990 Apr;25(4):317–27
Temporal and spatial transcriptional regulation of the aboral ectoderm-specific Spec genes during sea urchin embryogenesis. Tomlinson CR, et al. Mol Reprod Dev 1990 Apr;25(4):328–38
Development of early swimming in Xenopus laevis embryos: myotomal musculature, its innervation and activation. van Mier P, et al. Neuroscience 1989;32(1):113–26
Mitogenic activity from trout embryos. Collodi P, et al. Proc Natl Acad Sci U S A 1990 May;87(9):3498–502
Size-dependent pigmentation-pattern formation in embryos of Alligator mississippiensis: time of initiation of pattern generation mechanism. Murray JD, et al. Proc R Soc Lond [Biol] 1990 Apr 23;239(1296):279–93
A mouse macrophage factor induces head structures and organizes a body axis in Xenopus. Sokol S, et al. Science 1990 Aug 3;249(4968):561–4

RADIATION EFFECTS

Ultraviolet irradiation during ooplasmic segregation prevents gastrulation, sensory cell induction, and axis formation in the ascidian embryo. Jeffery WR. Dev Biol 1990 Aug; 140(2):388–400
Two UV-sensitive targets in dorsoanterior specification of frog embryos. Elinson RP, et al. Development 1989 Jul; 106(3):511–8

ULTRASTRUCTURE

Identification of microtubule-associated proteins in the centrosome, spindle, and kinetochore of the early Drosophila embryo. Kellogg DR, et al. J Cell Biol 1989 Dec;109(6 Pt 1):2977–91

EMBRYO, PREIMPLANTATION see BLASTOCYST

EMBRYO RESORPTION see under FETAL DEATH

EMBRYO TRANSFER

Infertility in advanced reproductive age. Results of in vitro fertilization and embryo transfer according to the woman's age. Cittadini E, et al. Acta Eur Fertil 1989 Sep-Oct; 20(5):285–97 (27 ref.)
Genetic diagnosis of the preimplantation embryo. Buster JE, et al. Am J Med Genet 1989 Oct;34(2):211–6
Dose previous Chlamydia trachomatis infection influence the pregnancy rate of in vitro fertilization and embryo replacement? Osser S, et al. Am J Obstet Gynecol 1990 Jan;162(1):40–4
Cervical pregnancy after in vitro fertilization and embryo transfer. Weyerman PC, et al. Am J Obstet Gynecol 1989 Nov;161(5):1145–6
Levels of interleukin-2 receptor in serum of patients during the menstrual cycle and following embryo/gamete transfer. Stone BA, et al. Am J Reprod Immunol 1989 Jul;20(3):114–6
The production of mouse fetal-placental chimeras using trisomy 16 and euploid blastocysts. Bogart MH, et al. Anat Embryol (Berl) 1990;181(2):137–47
Correlation between follicular fluid content and the results of in vitro fertilization and embryo transfer. III. Proteoglycans. Franchimont P, et al. Biol Reprod 1990 Aug;43(2):183–90
Embryos of different ages transferred to the rat oviduct enter the uterus at different times. Ortiz ME, et al. Biol Reprod 1989 Sep;41(3):381–4
Survival of sheep x goat hybrid inner cell masses after injection into ovine embryos. Roth TL, et al. Biol Reprod 1989 Oct;41(4):675–82
Human Fertilisation and Embryology Bill goes to report stage. Braude P, et al. BMJ 1990 Jun 2;300(6737):1410–2
Births resulting from assisted conception [letter] Chitty L, et al. BMJ 1990 Jun 30;300(6741):1726
Spontaneous abortion rates after natural and assisted conception. Steer C, et al. BMJ 1989 Nov 25; 299(6711):1317–8
Simultaneous intrauterine and cervical pregnancies after in vitro fertilization and embryo transfer in a patient with a history of a previous cervical pregnancy. Case report. Davies DW, et al. Br J Obstet Gynaecol 1990 Jul; 97(7):634–7
Relaxin in sera during the luteal phase of in-vitro fertilization cycles. Eddie LW, et al. Br J Obstet Gynaecol 1990 Mar; 97(3):215–20
Vascular response in a non-uterine site to implantation-stage embryos following interspecies transfers between the rat, mouse, and guinea-pig. Macpherson AM, et al. Cell Tissue Res 1989 Nov;258(2):417–23
Selective continuation in quadruplets pregnancy following treatment of GIFT plus IVF and ET. Soong YK, et al. Chung Hua I Hsueh Tsa Chih 1989 Oct;44(4):266–70
In vitro fertilization-embryo transfer in the United States: 1988 results from the IVF-ET Registry. Medical Research International. Society for Assisted Reproductive Technology. American Fertility Society. Fertil Steril 1990 Jan;53(1):13–20
Survival of the cornual pregnancy in a heterotopic gestation after in vitro fertilization and embryo transfer. Beck P, et al. Fertil Steril 1990 Apr;53(4):732–4
Effect of preovulatory progesterone administration on the endometrial maturation and implantation rate after in vitro fertilization and embryo transfer. Ben-Nun I, et al. Fertil Steril 1990 Feb;53(2):276–81
Immunosuppression supports implantation of zona pellucida dissected human embryos. Cohen J, et al. Fertil Steril 1990 Apr;53(4):662–5
Pregnancy after transfer of cryopreserved embryos in clomiphene citrate resistant polycystic ovarian syndrome. Dale PO, et al. Fertil Steril 1990 Feb;53(2):362–4
Correlation between follicular fluid content and the results of in vitro fertilization and embryo transfer. I. Sex steroids. Franchimont P, et al. Fertil Steril 1989 Dec;52(6):1006–11
A protocol for satisfying the ethical issues raised by oocyte donation: the free, anonymous, and fertile donors. Frydman R, et al. Fertil Steril 1990 Apr;53(4):666–72
The influence of oocyte maturity and embryo quality on pregnancy rate in a program for in vitro fertilization-embryo transfer. Hill GA, et al. Fertil Steril 1989 Nov;52(5):801–6
Luteal rescue in in vitro fertilization-embryo transfer.

Hutchinson-Williams KA, et al. **Fertil Steril** 1990 Mar; 53(3):495-501

Are implantation and pregnancy outcome impaired in diethylstilbestrol-exposed women after in vitro fertilization and embryo transfer? Karande VC, et al. **Fertil Steril** 1990 Aug;54(2):287-91

Clomiphene citrate directly impairs endometrial receptivity in the mouse. Nelson LM, et al. **Fertil Steril** 1990 Apr; 53(4):727-31

Delayed fertilization during in vitro fertilization and embryo transfer cycles: analysis of causes and impact on overall results. Oehninger S, et al. **Fertil Steril** 1989 Dec; 52(6):991-7

The clinical outcome of reinsemination of human oocytes fertilized in vitro. Pampiglione JS, et al. **Fertil Steril** 1990 Feb;53(2):306-10

Embryo implantation after human in vitro fertilization: importance of endometrial receptivity. Paulson RJ, et al. **Fertil Steril** 1990 May;53(5):870-4

Zygote intrafallopian transfer with "donor rescue": a new option for severe male factor infertility. Pool TB, et al. **Fertil Steril** 1990 Jul;54(1):166-8

Suboptimal laboratory conditions can affect pregnancy outcome after embryo transfer on day 1 or 2 after insemination in vitro. Quinn P, et al. **Fertil Steril** 1990 Jan; 53(1):168-70

Flexible menotropins initiation after long-acting gonadotropin-releasing hormone analog. Ron-el R, et al. **Fertil Steril** 1989 Nov;52(5):860-3

Birth of a triplet after transfer of four frozen-thawed embryos. Ron-El R, et al. **Fertil Steril** 1989 Oct;52(4):678-9

Transfer of cryopreserved-thawed embryos: the natural cycle versus controlled preparation of the endometrium with gonadotropin-releasing hormone agonist and exogenous estradiol and progesterone (GEEP). Schmidt CL, et al. **Fertil Steril** 1989 Oct;52(4):609-16

Ovarian stimulation protocol for in vitro fertilization with gonadotropin-releasing hormone agonist widens the implantation window. Tur-Kaspa I, et al. **Fertil Steril** 1990 May;53(5):859-64

Are pregnancy-associated plasma protein-A (PAPP-A) and CA 125 measurements after IVF-ET possible predictors of early pregnancy wastage? Bischof P, et al. **Hum Reprod** 1989 Oct;4(7):843-7

Pregnancies following ovum donation in gonadal dysgenesis. Cornet D, et al. **Hum Reprod** 1990 Apr;5(3):291-3

Serum PP14 levels in a patient with Turner's syndrome pregnant after frozen embryo transfer. Critchley HO, et al. **Hum Reprod** 1990 Apr;5(3):250-4

The value of pre-treatment with gonadotrophin releasing hormone (GnRH) analogue in IVF-ET therapy of severe endometriosis. Dicker D, et al. **Hum Reprod** 1990 May; 5(4):418-20

The combined suppression/stimulation therapy in IVF-ET programmes: expectations and facts. Insler V, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):47-51

A prospective randomized trial of human chorionic gonadotrophin or dydrogesterone support following in-vitro fertilization and embryo transfer. Kupferminc MJ, et al. **Hum Reprod** 1990 Apr;5(3):271-3

Significance of oestradiol values in IVF-ET under a combined GnRH analogue—desensitization and simultaneous gonadotrophin stimulation for the outcome of pregnancies. Mettler L, et al. **Hum Reprod** 1989 Nov; 4(8 Suppl):59-64

In-vitro fertilization and embryo transfer in patients with endometriosis: impact of a gonadotrophin releasing hormone agonist. Oehninger S, et al. **Hum Reprod** 1989 Jul;4(5):541-4

Assisted fertilization in infertile women with patent fallopian tubes. A comparison of in-vitro fertilization, gamete intra-fallopian transfer and tubal embryo stage transfer. Tanbo T, et al. **Hum Reprod** 1990 Apr;5(3):266-70

A critical assessment of the indications for in-vitro fertilization and embryo transfer. Thatcher SS, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):11-6 (41 ref.)

Selection of patients for IVF therapy or alternative therapy methods. Wiedemann R, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):23-7

In-vitro development and implantation of human embryos following culture on fetal bovine uterine fibroblast cells. Wiemer KE, et al. **Hum Reprod** 1989 Jul;4(5):595-600

Yolk-sac carcinoma develops spontaneously as a late occurrence in slow-growing teratoid tumors produced from transplanted 7-day mouse embryos. van Berlo RJ, et al. **Int J Cancer** 1990 Jan 15;45(1):153-5

Survival probability of human conceptions from fertilization to term. Boklage CE. **Int J Fertil** 1990 Mar-Apr;35(2):75, 79-80, 81-94

Multiple ovulation and embryo manipulation in the improvement of beef cattle: relative theoretical rates of genetic change. Gearheart WW, et al. **J Anim Sci** 1989 Nov;67(11):2863-71

Effects of embryo transfer in beef cattle on genetic evaluation methodology. Schaeffer LR, et al. **J Anim Sci** 1989 Oct; 67(10):2536-43

Correlation between follicular fluid content and the results of in vitro fertilization and embryo transfer. II. Inhibin and aromatase inhibitor activity. Franchimont P, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):748-54

Inhibin and estradiol responses to ovarian hyperstimulation: effects of age and predictive value for in vitro fertilization outcome. Hughes EG, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):358-64

Serum progestagen-associated endometrial protein (PEP) levels in conception versus nonconception cycles following in vitro fertilization-embryo transfer. Check JH, et al. **J In Vitro Fert Embryo Transf** 1990 Jun;7(3):134-6

In vitro fertilization-embryo transfer in three women with ovarian failure. Check JH, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):45-6

Ovarian suppression with leuprolide acetate: comparison of luteal, follicular, and flare-up administration in controlled ovarian hyperstimulation for oocyte retrieval. Gindoff PR, et al. **J In Vitro Fert Embryo Transf** 1990 Apr;7(2):94-7

Establiahment of pregnancy after embryo transfer in mares with gonadal dysgenesis. Hinrichs K, et al. **J In Vitro Fert Embryo Transf** 1989 Oct;6(5):305-9

Pregnancy results following embryo transfer in women receiving low-dosage variable-length estrogen replacement therapy for premature ovarian failure. Leeton J, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):232-5

Double transfer of embryos in in vitro fertilization, or is there a delayed receptivity of the endometrium? Lewin A, et al. **J In Vitro Fert Embryo Transf** 1989 Jun;6(3):139-41

Ovum donation by sisters in ovarian failure: simplified priming and early withdrawal of exogenous support. Rosenberg SM, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):228-31

Tailoring a commercial radioimmunoassay to the range of levels of progesterone occurring in human serum during controlled ovarian hyperstimulation and following embryo/gamete transfer. Stone BA, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):257-60

The in vitro fertilization and embryo transfer program at the First Women's Hospital "T. Kirkova," Sofia, Bulgaria [letter] Vatev I, et al. **J In Vitro Fert Embryo Transf** 1990 Apr;7(2):119

Down syndrome (trisomy 21) in a pregnancy after intratubal embryo transfer (IVF/IT-ET) [letter] Würfel W, et al. **J In Vitro Fert Embryo Transf** 1990 Feb;7(1):63-4

Policy positions on in vitro fertilization and embryo transfer in human individuals (German Democratic Republic, 1985). Koerner U. **J Med Philos** 1989 Jun;14(3):355-8

Effects of superovulation, embryo recovery, culture system and embryo transfer on development of rabbit embryos in vivo and in vitro. Carney EW, et al. **J Reprod Fertil** 1990 Jul;89(2):543-51

A simple method for mouse embryo cryopreservation in a low toxicity vitrification solution, without appreciable loss of viability. Kasai M, et al. **J Reprod Fertil** 1990 May; 89(1):91-7

Frozen pre-embryos. **JAMA** 1990 May 9;263(18):2484-7

An attempt at embryo transfer as a means of controlling Bordetella bronchiseptica infection in the rabbit. Suzuki H, et al. **Jikken Dobutsu** 1990 Jul;39(3):397-400

Effect on embryo survival of short-term exposure to the uterine environment of two selected lines of mice. Jenkins AS, et al. **Lab Anim Sci** 1990 Jul;40(4):371-4

How robust are early human embryos? [letter] Macnamee M, et al. **Lancet** 1990 Sep 8;336(8715):636

Hysterectomy in benign conditions: a procedure of the past? [letter] Seibel MM, et al. **Lancet** 1990 Mar 10; 335(8689):600-1

Are in-vitro fertilisation and embryo transfer of benefit to all? [see comments] Wagner MG, et al. **Lancet** 1989 Oct 28;2(8670):1027-30 (34 ref.) Comment in: Lancet 1989 Dec 2;2(8675):1327-9.

Current technology of in vitro fertilization and embryo transfer. Damewood MD. **Md Med J** 1990 Apr;39(4):331-6

Survival of bisected rabbit morulae transferred to synchronous and asynchronous recipients. Yang XZ, et al. **Mol Reprod Dev** 1990 May;26(1):6-11

Pregnancies from biopsied human preimplantation embryos sexed by Y-specific DNA amplification. Handyside AH, et al. **Nature** 1990 Apr 19;344(6268):768-70

Embryo transfer in the cat during the non-breeding season. Tsutsui T, et al. **Nippon Juigaku Zasshi** 1989 Oct; 51(5):871-7

In vitro fertilization and embryo transfer dilemmas. Marmaduke A, et al. **Nurs Forum** 1989;24(3-4):24-8

Pathologic features of placentas from singleton pregnancies obtained by in vitro fertilization and embryo transfer. Jauniaux E, et al. **Obstet Gynecol** 1990 Jul;76(1):61-4

In vitro fertilization and embryo transfer: an established and successful therapy for endometriosis. Oehninger S, et al. **Prog Clin Biol Res** 1990;323:319-35

In vitro techniques of bovine oocyte maturation, fertilization and embryo culture resulting in the birth of a calf. Pavlok A, et al. **Reprod Nutr Dev** 1989;29(5):611-6

In vitro fertilisation when normal sperm morphology is less than fifteen per cent. Results of in vitro fertilisation and embryo transfer at H.F. Verwoerd Hospital, Pretoria. Sevenster CB, et al. **S Afr Med J** 1990 Aug 18;78(4):203-4

Growth of the early bovine fetus. Hart-Elcock L, et al. **Zentralbl Veterinarmed** [A] 1990 May;37(4):294-9

[A preliminary study on in vitro fertilization and embryo transfer] Chen DX. **Chung Hua Fu Chan Ko Tsa Chih** 1989 Nov;24(6):348-50, 381 (Eng. Abstr.) (Chi)

[Principles of medical ethics in the in vitro fertilization and embryo transfer program] Pilka L. **Cesk Gynekol** 1989 Jun; 54(5):386-90 (Cze)

[Gamete and embryo transfer in conjunction with microsurgical treatment of sterility] Ventruba P, et al. **Cesk Gynekol** 1990 Mar;55(2):97-101 (Eng. Abstr.) (Cze)

[Increasing the superovulatory effect in heifers by trans-zonal bisection of embryos in practice] Lopatářová M, et al. **Vet Med (Praha)** 1989 Nov;34(11):641-50 (Eng. Abstr.) (Cze)

[In vitro fertilization and embryo transfer in a Deaconess Institution. Experience from the first years] Christensen F. **Ugeskr Laeger** 1990 Jul 2;152(27):1961-3 (Eng. Abstr.) (Dan)

[In vitro fertilization and embryo transfer at the Arhus community hospital (letter)] Lillebaek R. **Ugeskr Laeger** 1989 Oct 2;151(40):2600 (Dan)

[Pregnancy after ovariectomy as a result of preservation of the embryos] Racinet C, et al. **Presse Med** 1990 Jun 30; 19(26):1228-9 (Eng. Abstr.) (Fre)

[Analysis of 247 pregnancies after IVF and embryo transfer] Fiedler K, et al. **Arch Gynecol Obstet** 1989;245(1-4):890-3 (Ger)

[Developments in gynecology—dangers for human dignity?] Hepp H. **Arch Gynecol Obstet** 1989;245(1-4):913-6 (Ger)

[Developments in gynecology—dangers for the dignity of humans?] Ludwig H. **Arch Gynecol Obstet** 1989; 245(1-4):903-5 (Ger)

[Exposure to light and room temperature of pre-implantation embryos: ability to develop and cellular reactions] Schumacher A, et al. **Arch Gynecol Obstet** 1989; 245(1-4):869-71 (Ger)

[Are monozygous twins and twin-specific abnormalities more prevalent following extracorporeal fertilization? A comment on studies of the Gynecologic Clinic of the Erlangen-Nürnberg University] Pfeiffer RA, et al. **Geburtshilfe Frauenheilkd** 1989 Sep;49(9):813-6 (Eng. Abstr.) (Ger)

[Diagnosis, incidence and clinical significance of premature LH rise/peak in patients of an in vitro fertilization and gamete transfer program] Urbancsek J, et al. **Geburtshilfe Frauenheilkd** 1990 Jun;50(6):454-62 (Eng. Abstr.) (Ger)

[295 children born following IVF/ET. An analysis of the course of pregnancy and labor] Fiedler K, et al. **Gynakol Rundsch** 1989;29 Suppl 2:306-8 (Ger)

[Extra-uterine pregnancy following in vitro fertilization and embryo transfer (IVF-ET)] Hönigl W, et al. **Gynakol Rundsch** 1989;29 Suppl 2:303-5 (Ger)

[Andrologic indications for in vitro fertilization: is there a true therapeutic gain?] Krause W. **Hautarzt** 1989 Dec; 40(12):741-4 (Eng. Abstr.) (Ger)

[In vitro fertilization and embryo transfer. Indications, chances for success and special problems] Wiedemann R, et al. **Med Monatsschr Pharm** 1990 Jan;13(1):5-10 (24 ref.) (Ger)

[Course of pregnancy and labor following in vitro fertilization. A retrospective study of 246 deliveries] Fiedler K, et al. **Z Geburtshilfe Perinatol** 1990 Jan-Feb;194(1):8-12 (Eng. Abstr.) (Ger)

[Course of pregnancy following in vitro fertilization and embryo transfer] Wiedemann R, et al. **Z Geburtshilfe Perinatol** 1990 Jan-Feb;194(1):1-7 (37 ref.) (Eng. Abstr.) (Ger)

[Anesthesia for laparoscopy in sterile patients] Schönrath B, et al. **Zentralbl Gynakol** 1990;112(5):267-71 (Eng. Abstr.) (Ger)

[Success rates in in vitro fertilization—a mathematical problem? Comments on the article by M. M. Seibel in Obstet. Gynecol. 72 (1988) 265] Sudik R, et al. **Zentralbl Gynakol** 1989;111(14):983-7 (Eng. Abstr.) (Ger)

[Prevalence, significance and therapy of premature LH rise and peak in the In Vitro Fertilization program] Urbancsek J, et al. **Orv Hetil** 1990 Apr 29;131(17):905-9 (31 ref.) (Eng. Abstr.) (Hun)

[Embryo collection from miniature pigs and production of the piglets after transfer to common pig recipients] Yamakawa H, et al. **Jikken Dobutsu** 1990 Jul;39(3):413-5 (Eng. Abstr.) (Jpn)

[A protocol of in vitro fertilization and embryo transfer for a high pregnancy rate] Katayama E, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Feb;42(2):211-4 (Jpn)

[A study of the controlled ovarian hyperstimulation using GnRH agonist and pure FSH in in vitro fertilization-embryo transfer and gamete intrafallopian transfer program] Usui A. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep;41(9):1431-8 (Eng. Abstr.) (Jpn)

[Freezing, thawing and transfer of human embryos] Sunde A, et al. **Tidsskr Nor Laegeforen** 1990 Jan 10;110(1):26-9 (Eng. Abstr.) (Nor)

ADVERSE EFFECTS

Simultaneous tubal and intra-uterine pregnancy following in vitro fertilization and embryo transfer. Barash A, et al. **Acta Obstet Gynecol Scand** 1989;68(7):643-4

Bilateral tubal pregnancy with intra-uterine gestation after IVF-ET: therapy by bilateral laparoscopic salpingectomy; a case report. Hanf V, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Oct;37(1):87-90

Combined intrauterine and cervical pregnancy from in vitro fertilization and embryo transfer [letter; comment] Dimitry ES, et al. **Fertil Steril** 1989 Nov;52(5):874-5 Comment on: Fertil Steril 1989 Apr;51(4):725-7.

INSTRUMENTATION

The optimization of laparoscopic oocyte recovery. Yovich JL, et al. **Int J Fertil** 1989 Nov-Dec;34(6):390-400

Single- and double-lumen needles for oocyte harvesting [letter] Reeves G. **J In Vitro Fert Embryo Transf** 1989 Dec; 6(6):353-5

[A European first?] Mardelić T. **Cesk Gynekol** 1990 Jun; 55(5):389-91 (Cze)

[Development of a hysteroscopy transfer scope and initial experience with its use in intratubal embryo transfer (IVF/IT-ET)] Spingler H, et al. **Gynakol Rundsch** 1989; 29 Suppl 2:439-41 (Ger)

METHODS

Morphology of day 7 bovine demi-embryos during in vitro reorganization. Albihn A, et al. **Acta Anat (Basel)** 1990; 138(1):42-9

Cryopreservation of human embryos as a useful tool for infertile couples. Katayama KP, et al. **Asia Oceania J Obstet Gynaecol** 1990 Jun;16(2):97-100

Presence of amino acids and insulin in a chemically defined medium improves development of 8-cell rat embryos in vitro and subsequent implantation in vivo. Zhang X, et al. **Biol Reprod** 1990 Apr;42(4):662-8

Pregnancy in women with premature ovarian failure using tubal and intrauterine transfer of cryopreserved zygotes. Abdalla HI, et al. **Br J Obstet Gynaecol** 1989 Sep; 96(9):1071-5

Recent progress in human in vitro fertilization and embryo transfer. Trounson A. **Dev Biol (N Y 1985)** 1986;4:149-94 (180 ref.)

Egg donation in an in vitro fertilization program: an alternative approach to cycle synchronization and timing of embryo transfer. Ben-Nun I, et al. **Fertil Steril** 1989 Oct;52(4):683-7

Survival and pregnancy outcome after ultrarapid freezing of human embryos. Gordts S, et al. **Fertil Steril** 1990 Mar; 53(3):469-72

Increased viscosity in transfer medium does not improve the pregnancy rates after embryo replacement. Menezo Y, et al. **Fertil Steril** 1989 Oct;52(4):680-2

Results of tubal embryo transfer in premature ovarian failure. Rotsztejn DA, et al. **Fertil Steril** 1990 Aug;54(2):348-50

Preliminary results on transvaginal tubal embryo stage transfer (TV-TEST) without ultrasound guidance. Bauer O, et al. **Hum Reprod** 1990 Jul;5(5):553-6

Establishment of pregnancy related to embryo transfer techniques after in-vitro fertilization. Diedrich K, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):111-4

Non-surgical flushing of the uterus for pre-embryo recovery: possible clinical applications. Formigli L, et al. **Hum Reprod** 1990 Apr;5(3):329-35

Non-surgical tubal embryo transfer. Guidetti R, et al. **Hum Reprod** 1990 Feb;5(2):221-4

Transfers of frozen-thawed human embryos in cycles stimulated by HMG. Lornage J, et al. **Hum Reprod** 1990 Jan;5(1):60-5

Retrograde tubal transfer of human embryos. Risquez F, et al. **Hum Reprod** 1990 Feb;5(2):185-8

The influence of infertility etiology on the outcome of IVF-ET and GIFT treatments. Yovich JL, et al. **Int J Fertil** 1990 Jan-Feb;35(1):26-33

Critical reappraisal of the clinical effectiveness of different methods of assisted fertilization. Melis GB, et al. **J Endocrinol Invest** 1990 Mar;13(3):263-74 (88 ref.)

Transcervical ultrasound-guided intrafallopian placement of gametes, zygotes, and embryos. Bustillo M, et al. **J In Vitro Fert Embryo Transf** 1989 Dec;6(6):321-4 (23 ref.)

Comparison of singleton and multiple pregnancies in in vitro fertilization (IVF) and embryo transfer (ET). Hershlag A, et al. **J In Vitro Fert Embryo Transf** 1990 Jun;7(3):157-9

Effect of bladder filling on embryo transfer. Mitchell JD, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):263-5

Transcervical tubal embryo-stage transfer (TC-TEST). Yovich JL, et al. **J In Vitro Fert Embryo Transf** 1990 Jun; 7(3):137-40

Development and survival after transfer of cow embryos cultured from 1-2-cells to morulae or blastocysts in rabbit oviducts or in a simple medium with bovine oviduct epithelial cells. Ellington JE, et al. **J Reprod Fertil** 1990 May;89(1):293-9

Reproductive anatomy, manipulation of ovarian activity and non-surgical embryo recovery in suni (Neotragus moschatus zuluensis). Loskutoff NM, et al. **J Reprod Fertil** 1990 Mar;88(2):521-32

Successful pre-embryo donation in ovarian failure after treatment for breast carcinoma [letter] Sauer MV, et al. **Lancet** 1990 Mar 24;335(8691):723

Embryo research [letter] **Nature** 1990 Jul 19;346(6281):212

Human pregnancy after transfer of intact frozen-thawed embryos. Erasmus EL, et al. **S Afr Med J** 1989 Dec 2; 76(11):613-4

The embryo freezing programme at Groote Schuur Hospital. First results. Wiswedel K, et al. **S Afr Med J** 1990 May 19;77(10):515-6

Production of transgenic mice: acupuncture needle-facilitated embryo transfer to oviduct ampulla. Pease S, et al. **Trends Genet** 1989 Sep;5(9):293

[A transvaginal sonographic needle-guided method of ovum pickup in a fertilization in vitro/embryo transfer program] Zhang LZ. **Chung Hua Fu Chan Ko Tsa Chih** 1990 May; 25(3):146-8, 188 (Eng. Abstr.) (Chi)

[Transurethral transvesicular follicle aspiration in the IVF and ET program] Mardelić T, et al. **Cesk Gynekol** 1989 Aug;54(7):481-5 (Eng. Abstr.) (Cze)

[Fertilization in vitro and embryo transfer] Germond M, et al. **Schweiz Med Wochenschr** 1990 Feb 24;120(8):260-8 (42 ref.) (Eng. Abstr.) (Fre)

[Combined GnRH analogs/hMG/hCG treatment] Braendle W. **Arch Gynecol Obstet** 1989;245(1-4):931-5 (Eng. Abstr.) (Ger)

[Initial results with intratubal embryo transfer] Diedrich K. **Arch Gynecol Obstet** 1989;245(1-4):883-8 (Eng. Abstr.) (Ger)

[Studies of 20 extrauterine pregnancies following IVF and embryo transfer] Krüsmann G, et al. **Arch Gynecol Obstet** 1989;245(1-4):897-9 (Ger)

[Effect of low-dose corticoid administration (prednisolone 7.5 mg) on the quality of gonadotropin-induced cycle stimulation] Würfel W, et al. **Arch Gynecol Obstet** 1989; 245(1-4):854-8 (Ger)

[Intra-tubal embryo transfer (IVF/IT-ET) in the treatment of non-tubal-induced sterility. Initial studies of the value of a new and expensive therapy procedure] Würfel W, et al. **Geburtshilfe Frauenheilkd** 1989 Oct;49(10):894-901 (Eng. Abstr.) (Ger)

[Initial results with intra-tubal embryo transfer (IVF-IT-ET) in patients with cervix antibodies to spermatozoa antigens] Krüsmann G, et al. **Gynakol Rundsch** 1989;29 Suppl 2:436-9 (Ger)

[Comparison of various methods of cryopreservation of human pre-embryos] Putz M, et al. **Zentralbl Gynakol** 1990; 112(10):623-8 (Eng. Abstr.) (Ger)

[Embryological aspects of the program of in vitro fertilization and embryo transfer in humans] Khil'kevich LV, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):51-6 (Rus)

[Current status of the problem of extracorporeal fertilization and embryo transfer in humans] Nikitin AI. **Akush Ginekol (Mosk)** 1989 Aug;(8):10-3 (53 ref.) (Rus)

[Use of computer analysis in the program of in vitro fertilization and embryo transfer] Vishnevski L, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):57-8 (Rus)

[The transplantation of rabbit embryos] Zakharchenko VI, et al. **Ontogenez** 1989 Sep-Oct;20(5):553-7 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Psychological studies of in vitro fertilization/embryo transfer participants. Mazure CM, et al. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):242-56 (65 ref.)

STANDARDS

Choosing the right embryo: the challenge of the nineties [editorial] Plachot M. **J In Vitro Fert Embryo Transf** 1989 Aug;6(4):193-4

VETERINARY

Embryo transfer in subfertile mares. Katila T, et al. **Acta Vet Scand** 1989;30(3):329-33

Practical experience with commercial embryo transfer in pigs. Cameron RD, et al. **Aust Vet J** 1989 Oct;66(10):314-8

The impact of pestivirus on an artificial breeding program for cattle. Kirkland PD, et al. **Aust Vet J** 1990 Jul; 67(7):261-3

Birth of normal calves resulting from bovine oocytes matured, fertilized, and cultured with cumulus cells in vitro up to the blastocyst stage. Fukuda Y, et al. **Biol Reprod** 1990 Jan;42(1):114-9

In vitro fertilization and embryo transfer in the rhesus monkey. Wolf DP, et al. **Biol Reprod** 1989 Aug; 41(2):335-46

Embryo transfer in animals. Kuzan FB, et al. **Dev Biol (N Y 1985)** 1986;4:249-78 (197 ref.)

Experimental transmission of bovine viral diseases by insemination with contaminated semen or during embryo transfer. Schlafer DH, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Feb;97(2):68-72

Cloning of sheep and cow embryos. Willadsen SM. **Genome** 1989;31(2):956-62 (14 ref.)

Transcervical embryo transfer in performance mares. Sertich PL. **J Am Vet Med Assoc** 1989 Oct 1;195(7):940-4

Effect of variability in response to superovulation on donor cow selection differentials in nucleus breeding schemes. Keller DS, et al. **J Dairy Sci** 1990 Feb;73(2):549-54

Present status of embryo transfer in water buffalo (a review). Ocampo MB, et al. **Jpn J Vet Res** 1989 Oct;37(3-4):167-79 (38 ref.)

Production and development of calves from sexed-bisected bovine embryos. Seike N, et al. **Jpn J Vet Res** 1990 Jan; 38(1):1-9

An experimental trial on embryo transfer in the dog. Tsutsui T, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):797-800

Working party on AI and embryo transfer [letter] Carter H. **Vet Rec** 1990 Feb 24;126(8):201

Oversized bovine fetuses [letter] Kent MA. **Vet Rec** 1989 Nov 18;125(21):538

Oversized bovine fetuses [letter] Stockman MJ. **Vet Rec** 1989 Dec 23-30;125(26-27):656

Conception rate after transfer of Japanese black cattle embryos produced in vitro. Takada N, et al. **Vet Rec** 1990 Jun 9;126(23):581-2

[Use of synchronized heifer-recipients in view of the effectiveness of embryo transfer in cattle] Holý L, et al. **Vet Med (Praha)** 1990 Jan;35(1):1-10 (Eng. Abstr.) (Cze)

[Folliculogenesis and embryo transfer in ruminants] Beckers JF. **Bull Mem Acad R Med Belg** 1989;144(12):607-16; discussion 617-20 (Eng. Abstr.) (Fre)

[The effect of granulosa cells on maturation, fertilization and cleavage in vitro] Alm H, et al. **Arch Exp Veterinarmed** 1990;44(1):83-91 (Eng. Abstr.) (Ger)

[Cryopreservation of bovine embryos] Falge R, et al. **Arch Exp Veterinarmed** 1990;44(1):127-34 (Eng. Abstr.) (Ger)

[The inhibition of meiosis of bovine oocytes using biologic of synthetic inhibitors] Götze M, et al. **Arch Exp Veterinarmed** 1990;44(1):19-27 (Eng. Abstr.) (Ger)

[Comparative studies of superovulation in high-producing cows] Rommel P, et al. **Arch Exp Veterinarmed** 1990; 44(1):117-25 (Eng. Abstr.) (Ger)

[Relationship between metabolic status and results of embryo collection in high-producing cows] Schäfer M, et al. **Arch Exp Veterinarmed** 1990;44(1):157-62 (Eng. Abstr.) (Ger)

[Embryo transfer in cattle—present status and outlook] Hahn J. **DTW Dtsch Tierarztl Wochenschr** 1990 Jun;97(6):258-63 (23 ref.) (Ger)

[Production of normal young following transfer of mouse embryos obtained by in vitro fertilization using cryopreserved spermatozoa] Yokoyama M, et al. **Jikken Dobutsu** 1990 Jan;39(1):125-8 (Eng. Abstr.) (Jpn)

EMBRYOLOGY

Manipulation of mammalian development. **Dev Biol (N Y 1985)** 1986;4:1-381

HISTORY

A new look at Spemann's organizer. Holtfreter JF. **Dev Biol (N Y 1985)** 1988;5:127-50

Experimental embryology in France (1887-1936). Fischer JL. **Int J Dev Biol** 1990 Mar;34(1):11-23

The S. Kuffler lecture. The rise of experimental neuroembryology. A personal reassessment. Hamburger V. **Int J Dev Neurosci** 1990;8(2):121-31

METHODS

Fate mapping the avian epiblast with focal injections of a fluorescent-histochemical marker: ectodermal derivatives. Schoenwolf GC, et al. **J Exp Zool** 1990 Sep;255(3):323-39

TRENDS

[There is great interest in research on fetal medicine and fetal surgery] Olsen L. **Lakartidningen** 1990 Feb 21; 87(8):568-9 (Swe)

EMBRYONAL CARCINOMA CELLS see **TUMOR STEM CELLS**

EMBRYONIC INDUCTION see under **CELL DIFFERENTIATION**

EMBRYOPATHIES see **FETAL DISEASES**

EMBRYOS, PLANT see **SEEDS**

EMBRYOTOMY see **ABORTION, INDUCED**

EMBRYOTOXINS see **TERATOGENS**

EMEPRONIUM see under **AMMONIUM COMPOUNDS**

EMERGENCIES

see related
CRISIS INTERVENTION
CRITICAL CARE
EMERGENCY SERVICE, HOSPITAL
FIRST AID
HOTLINES

Primary torsion of the greater omentum. Case report. Choen S, et al. **Acta Chir Scand** 1990 Feb;156(2):171-2

Skin clues to medical emergencies. Inserra DW, et al. **Am Fam Physician** 1990 Mar;41(3):878-86 (12 ref.)

Revised pediatric code card [letter] Rockney RM, et al. **Am J Dis Child** 1990 Mar;144(3):272-4

Clonidine poisoning in children [letter] Wedin GP, et al. **Am J Dis Child** 1990 Aug;144(8):853-4

Environmental medicine: an annotated bibliography of the literature, 1987-1989. Charles J, et al. **Am J Emerg Med** 1990 May;8(3):251-62

Midazolam use in the emergency department. Wright SW, et al. **Am J Emerg Med** 1990 Mar;8(2):97-100

Ethchlorvynol overdose. Yell RP. **Am J Emerg Med** 1990 May;8(3):246-50

Drug waste with two emergency medication syringe systems during cardiopulmonary resuscitation. Sojka PA, et al. **Am J Hosp Pharm** 1989 Sep;46(9):1830-2

Determinants of family treatment choice and satisfaction in psychiatric emergencies. Morgan SL.

Am J Orthopsychiatry 1990 Jan;60(1):96–107
Acute tonsillar airway obstruction after adenoidectomy [letter] Bleovsky LT, et al. **Anaesth Intensive Care** 1989 Nov;17(4):516
Acid aspiration prophylaxis in Australian obstetric hospitals—a survey. Burgess RW, et al. **Anaesth Intensive Care** 1989 Nov;17(4):492–5
Thyroid pressure [letter] [see comments] Gartrell P. **Anaesth Intensive Care** 1989 Nov;17(4):515 Comment in: Anaesth Intensive Care 1990 May;18(2):280.
'What colour are your disasters?' [letter] Hodgson RA. **Anaesth Intensive Care** 1990 May;18(2):274
The Anesthesia Simulator-Recorder: a device to train and evaluate anesthesiologists' responses to critical incidents. Schwid HA, et al. **Anesthesiology** 1990 Jan;72(1):191–7
50% dextrose: antidote or toxin? Browning RG, et al. **Ann Emerg Med** 1990 Jun;19(6):683–7 (45 ref.)
Indigent children who are denied care in the emergency department. Shaw KN, et al. **Ann Emerg Med** 1990 Jan; 19(1):59–62
The efficiency of management of emergency surgery in a district general hospital—a prospective study. Flook DJ, et al. **Ann R Coll Surg Engl** 1990 Jan;72(1):27–31
Changes in emergency surgery between 1973 and 1982: audit of the workload of one surgical team. Perry EP, et al. **Ann R Coll Surg Engl** 1989 Nov;71(6):341–3
True emergency coronary artery bypass surgery. Edwards FH, et al. **Ann Thorac Surg** 1990 Apr;49(4):603–10; discussion 610–1
Left ventricular rupture. A collaborative approach to emergency management. Seifert PC, et al. **AORN J** 1990 Mar;51(3):714, 717–20, 722 passim
Experience with an emergency resuscitation system. Raithel SC, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):475–7
Left ventricular assist system with a simplified cannulation technique. Sasaki E, et al. **ASAIO Trans** 1989 Jul–Sep; 35(3):609–11
The management of emergencies in general practice. Hogan C. **Aust Fam Physician** 1989 Oct;18(10):1211–6, 1219
Waiting for child care [letter] Thomas A. **BMJ** 1990 May 5;300(6733):1194
'Lifesaver' seminars [letter] Holden CG. **Br Dent J** 1989 Nov 11;167(9):303–4
How to remove a rectal foreign body [letter] Colthurst JR. **Br J Hosp Med** 1990 May;43(5):329
Inguinal hernia waiting lists: medical and financial implications. Davies AH, et al. **Bristol Med Chir J** 1989 Nov;104(4):104, 106
Emergence respiratory complications in children: a comparison between halothane and isoflurane. Pounder DR, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S126
Anaesthetic management of emergency caesarean section followed by pulmonary embolectomy. Splinter WM, et al. **Can J Anaesth** 1989 Nov;36(6):689–92
Acute asthma: emergency department management and prospective evaluation of outcome [see comments] Fitzgerald JM, et al. **Can Med Assoc J** 1990 Mar 15; 142(6):591–5 Comment in: Can Med Assoc J 1990 Jun 1;142(11):1183, 1186–7.
Catheter reperfusion for failed emergency coronary angioplasty without subsequent bypass surgery. Ciampricotti R, et al. **Cathet Cardiovasc Diagn** 1989 Nov; 18(3):159–64
Emergency use of portable cardiopulmonary bypass. Overlie PA. **Cathet Cardiovasc Diagn** 1990 May;20(1):27–31 (13 ref.)
Accident and emergency reporting in UK teaching departments. Beggs I, et al. **Clin Radiol** 1990 Apr; 41(4):264–7
Diagnosis and treatment of dental emergencies in two Finnish cities. Widström E, et al. **Community Dent Health** 1990 Jun;7(2):173–8
Perioperative management of intracranial catastrophes. Young WL, et al. **Crit Care Clin** 1989 Oct;5(4):821–44 (81 ref.)
Emergency surgery [editorial] **East Afr Med J** 1989 May; 66(5):309
Socio-psychological factors affecting emergency obstetric deliveries at the University College Hospital, Ibadan, Nigeria. Adewunmi OA, et al. **East Afr Med J** 1990 Feb; 67(2):79–85
Endocrine and metabolic emergencies. **Emerg Med Clin North Am** 1989 Nov;7(4):749–961
Technical aid for facilitating emergency endoscopy. Sontheimer J, et al. **Endoscopy** 1989 Nov;21(6):283–4
Emergency coronary angioplasty in patients with severe left ventricular dysfunction or cardiogenic shock after acute myocardial infarction. Verna E, et al. **Eur Heart J** 1989 Nov;10(11):958–66
NFPA alert: power in the OR. A call for action [editorial] **Health Devices** 1989 Nov;18(11):371–2
Reperfusion through balloon catheter to minimize myocardial infarction during the interval between failed percutaneous transluminal coronary angioplasty and emergency coronary artery bypass grafting. Kusachi S, et al. **Heart Vessels** 1989; 5(1):59–63
Care in diabetic emergencies. Akerblom HK, et al. **Indian J Pediatr** 1989 Nov–Dec;56 Suppl 1:S71–6
Pediatric emergencies: newsletter 9. Surpure JS. **Indian J Pediatr** 1989 Mar–Apr;56(2):303–6 (5 ref.)
Emergency neonatal care [editorial] Bhakoo ON. **Indian Pediatr** 1988 Oct;25 Suppl:1
Management of neonatal emergencies in the community. Kumar V, et al. **Indian Pediatr** 1988 Oct;25 Suppl:121–6
Neurosurgical emergencies. Rohatgi M, et al. **Indian Pediatr** 1988 Oct;25 Suppl:102–11
Neonatal cardiac emergencies. Shrivastava S. **Indian Pediatr** 1988 Oct;25 Suppl:75–80
Hypertensive emergency. Srivastava RN, et al. **Indian Pediatr** 1988 Oct;25 Suppl:81–6
Twenty years experience with abdominal aneurysmectomy. Surgical considerations and analysis of late results. Poulias GE, et al. **Int Angiol** 1989 Jul–Sep;8(3):111–9
WHO: emergency plan to fight AIDS in Romania [news] **Int Nurs Rev** 1990 Mar–Apr;37(2):230–1
Emergency treatment with ketoconazole in disseminated intravascular coagulation due to metastatic prostatic carcinoma [published erratum appears in J Assoc Physicians India 1990 Mar;38(3):205] Bhadoria DP, et al. **J Assoc Physicians India** 1989 Dec;37(12):792–3
Emergency sclerotherapy in variceal haemorrhage [letter] Contractor QQ, et al. **J Assoc Physicians India** 1990 Mar; 38(3):252
Medical emergencies associated with disorders of calcium homeostasis. Gupta MM. **J Assoc Physicians India** 1989 Oct;37(10):629–31
Emergency endoscopy is necessary in patients with bleeding oesophageal varices [letter] Misra SC, et al. **J Assoc Physicians India** 1990 Mar;38(3):251–2
Upper gastrointestinal bleeding in portal hypertension [letter] Misra SP, et al. **J Assoc Physicians India** 1990 Mar; 38(3):250–1
Non-surgical treatment of acute upper gastrointestinal haemorrhage [editorial] Nanivadekar SA. **J Assoc Physicians India** 1989 Aug;37(8):493–4
"Emergency". Baldwin LE. **J Biol Photogr** 1990 Jan;58(1):15
Curriculum guidelines for management of medical emergencies in dental education. **J Dent Educ** 1990 Jun; 54(6):337–8
Acute hand injuries. Emergency room management. Redmon HA. **J Fla Med Assoc** 1989 Jul;76(7):633–6 (14 ref.)
Night calls—the patients' view [letter] [see comments] Halsall J. **J R Coll Gen Pract** 1989 Jun;39(323):260 Comment in: J R Coll Gen Pract 1989 Sep;39(326):392.
Use and limits of anthropometric indicators in emergency assessment of famine situations: an example from northern Uganda [letter] Tessier SF, et al. **J Trop Pediatr** 1989 Oct; 35(5):267–9
In-flight emergencies: doc riders in the sky [letter] **JAMA** 1990 Jan 12;263(2):233–5
Risk of infection during CPR training and rescue: supplemental guidelines. The Emergency Cardiac Care Committee of the American Heart Association. **JAMA** 1989 Nov 17;262(19):2714–5
Informed consent in emergency research [letter; comment] Leith JD. **JAMA** 1989 Dec 8;262(22):3129 Comment on: JAMA 1989 Jul 14;262(2):252–5.
Defenceless Samaritans [letter] Simpson IG. **Lancet** 1989 Dec 2;2(8675):1341
Unexpected, unattended deliveries. Harper RG, et al. **N Y State J Med** 1990 Jun;90(6):330–1
Rapid tranquilization: a reevaluation. Solano OA, et al. **Neuropsychobiology** 1989;22(2):90–6 (66 ref.)
The incidence of bacteremia associated with emergent intubation: relevance to prophylaxis against bacterial endocarditis. Cannon LA, et al. **Ohio Med** 1990 Aug; 86(8):596–9
Calcium blocking agents in pediatric emergency care. Shahar E, et al. **Pediatr Emerg Care** 1990 Mar;6(1):52–7 (76 ref.)
Preparedness for pediatric emergencies encountered in the practitioner's office. Altieri M, et al. **Pediatrics** 1990 May; 85(5):710–4
Intraosseous fluids in emergencies [letter; comment] Macgregor DF, et al. **Pediatrics** 1990 Mar;85(3):386–7 Comment on: Pediatrics 1989 Jul;84(1):173–7.
Auditory warning sounds in the work environment. Patterson RD. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):485–92
Doppler echocardiography. Role in emergency diagnosis of cardiac valve disease. Baron SB, et al. **Postgrad Med** 1990 May 1;87(6):85–8, 91–3, 96–8
Accident and emergency abusers. Foroughi D, et al. **Practitioner** 1989 May 8;233(1468):657–9
Oncologic emergencies. **Semin Oncol** 1989 Dec;16(6):461–587
Trauma and acute surgical emergencies in pregnancy. Dudley DJ, et al. **Semin Perinatol** 1990 Feb;14(1):42–51 (50 ref.)
The effect of a nurses' industrial action on psychiatric hospital admissions. Abdelkader M, et al. **Soc Psychiatry Psychiatr Epidemiol** 1990 May;25(3):154–8
[Medical responsibilities during flights] Hagelsten JO. **Nord Med** 1989;104(12):319 (Dan)
[Role of the hospital pharmacy in the preparation of an emergency plan. Experience of the central pharmacy of Angers Regional University Hospital Center] Lafleuriel MT, et al. **Agressologie** 1989 Sep;30(8):485–8 (Eng. Abstr.) (Fre)
[Immediate water cooling. Emergency treatment of burns] Latarjet J, et al. **Ann Dermatol Venereol** 1990;117(5):415–6 (Fre)
[Mortality in emergency abdominal surgery. 304 cases. A plea for better clinical practice] Monod-Broca P. **Ann Gastroenterol Hepatol (Paris)** 1990 Jun;26(4):184–6 (Eng. Abstr.) (Fre)
[Intrapleural analgesia using lidocaine in the emergency treatment of thoracic injuries] Carli P, et al. **Cah Anesthesiol** 1989 Oct;37(6):425–7 (Fre)
[Rupture of the diaphragm] Besson A. **Helv Chir Acta** 1990 Apr;56(6):817–24 (Eng. Abstr.) (Fre)
[Emergency procedures by the practitioner facing psychiatric emergencies] Gusberti FR. **Rev Med Suisse Romande** 1989 Nov;109(11):969–71 (Fre)
[Attitude of the practitioner toward some pediatric emergency situations] Maherzi M. **Rev Med Suisse Romande** 1989 Jul;109(7):573–8 (Fre)
[Malnutrition and nutritional emergencies in the framework of assistance by the International Red Cross Committee] Mourey A. **Rev Med Suisse Romande** 1990 May; 110(5):405–11 (Fre)
[Emergency procedures by the practitioner in ophthalmological emergencies] Pournaras C. **Rev Med Suisse Romande** 1989 Oct;109(10):869–72 (Fre)
[Psychiatric emergencies and the psychiatrization of emergencies in advanced age] Richard J, et al. **Rev Med Suisse Romande** 1990 Mar;110(3):283–7 (Fre)
[Asthma, the importance of steroids in case of severe crisis (interview by Robert Henry)] Renzi P. **Union Med Can** 1990 Jul–Aug;119(4):202–3, 206–8 (Fre)
[Iodine-induced crisis in thyroid autonomy: a surgical emergency] Frilling A, et al. **Acta Med Austriaca** 1990;17 Suppl 1:86–7 (Ger)
[Indications for the insertion of a central venous catheter in emergency situations] Hrska F, et al. **Anaesthesist** 1990 Jan;39(1):60–1 (Eng. Abstr.) (Ger)
[Severe EPH gestoses and pre-eclampsia in relation to hemolysis, increased liver enzymes and decreased thrombocytes—a report of experiences in emergency obstetric situations] Bung B, et al. **Arch Gynecol Obstet** 1989;245(1–4):819–21 (Eng. Abstr.) (Ger)
[Emergency ultrasound diagnosis] Zoller WG. **Bildgebung** 1987–89;56 Suppl 2:67–72 (Ger)
[Respiratory monitoring in emergency medicine] Böhm D, et al. **Biomed Tech (Berlin)** 1990;35 Suppl 1:76–7 (Ger)
[Use and evaluation of reflectometry determination procedures in pediatric-internal medicine acute and emergency diagnosis] Krawinkel M, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:227–8 (Ger)
[Transthoracic electric heart stimulation] Ould G, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:250–1 (Ger)
[Esophageal variceal hemorrhage: therapy concepts and results] Hüring R, et al. **Chirurg** 1990 Apr;61(4):213–21 (26 ref.) (Ger)
[Lower intestinal hemorrhage] Horn J, et al. **Chirurg** 1990 Apr;61(4):228–35 (18 ref.) (Ger)
[Elective interventions for gastroduodenal ulcer] Junginger T, et al. **Chirurg** 1990 Jan;61(1):10–5 (23 ref.) (Ger)
[Hemorrhaging esophageal varices due to hepatico-portal arteriovenous fistula in perforation of an aneurysm of the hepatic artery] Langkau G, et al. **Chirurg** 1990 Mar; 61(3):192–5 (Ger)
[Emergency interventions in gastroduodenal ulcer] Schiessel R, et al. **Chirurg** 1990 Jan;61(1):16–21 (Ger)
[Continuous 2-layer suture of the femoral hernia. Initial clinical results with 31 patients] Schumpelick V, et al. **Chirurg** 1989 Dec;60(12):882–5 (Eng. Abstr.) (Ger)
[Emergency examination—a race with time. Vital function—Glasgow Coma Scale] Dotzer F. **Fortschr Med** 1990 Feb 28;108(6):18, 21 (Ger)
[In thyrotoxic crisis, immediate volume therapy. Iodine-containing drugs are the leading cause] Mackenroth T. **Fortschr Med** 1990 Jan 30;108(3):14–6 (Ger)
[Recognizing and treating hypertensive crisis. Etiology—recommendations for therapy by the German Hypertension League] Michel D. **Fortschr Med** 1990 Apr 20;108(12):18, 21 (Ger)
[Fetal emergency—compromise of parental guardianship already in unborn children?] Czekelius P, et al. **Geburtshilfe Frauenheilkd** 1990 Feb;50(2):161–4 (Ger)
[Fornix rupture. A contribution to differential acute abdomen diagnosis] Flückiger R, et al. **Helv Chir Acta** 1989 Aug; 56(3):361–4 (Eng. Abstr.) (Ger)
[Aneurysm of the abdominal aorta as a retroperitoneal urologic emergency] Roth S, et al. **Helv Chir Acta** 1989 Aug;56(3):379–82 (Eng. Abstr.) (Ger)
[Vein of Galen malformation in a newborn infant with clinical symptoms of a cardiologic emergency] Kabus M, et al. **Kinderarztl Prax** 1990 May;58(5):247–53 (Eng. Abstr.) (Ger)
[Diagnosis and therapy of hypercalcemic crisis] Wahl W, et al. **Med Klin** 1989 Nov 15;84(11):519–25 (Eng. Abstr.) (Ger)
[Emergencies in children] Stopfkuchen H. **Med Monatsschr Pharm** 1990 Aug;13(8):236–42 (8 ref.) (Ger)
[Artificial respiration of patients with status asthmaticus—clinical course, complications and follow-up] Karg O, et al. **Pneumologie** 1990 Feb;44 Suppl 1:659–60 (Eng. Abstr.) (Ger)
[Emergency intubation and ventilation therapy in severe bronchial asthma] Simon A, et al. **Pneumologie** 1990 Feb; 44 Suppl 1:657–8 (Eng. Abstr.) (Ger)
[Acute digitoxin poisoning] Battegay M, et al. **Schweiz Rundsch Med Prax** 1989 Aug 15;78(33):880–2 (Eng. Abstr.) (Ger)
[Thoracic pain] Richter M, et al. **Schweiz Rundsch Med Prax** 1989 Aug 22;78(34):910–1 (Eng. Abstr.) (Ger)
[Emergency coronary dilatation in acute myocardial infarct

with contraindications to thrombolytic therapy: salvage of the myocardium by early intervention] Zuber M, et al. **Schweiz Rundsch Med Prax** 1989 Aug 15;78(33):863–7 (Eng. Abstr.) (Ger)

[Vitreous body surgery] Kain HL. **Ther Umsch** 1990 Apr; 47(4):308–19 (30 ref.) (Eng. Abstr.) (Ger)

[Electronics against fear, emergency call systems for the elderly] Schmidt-Lenoir F. **Ther Umsch** 1989 Oct; 46(10):727–31 (Eng. Abstr.) (Ger)

[The significance of vascular surgery treatment of complications following percutaneous transluminal angioplasty of the lower extremities] Menger MD, et al. **Vasa** 1989;18(3):215–20 (Eng. Abstr.) (Ger)

[Staged diagnosis and treatment of acute arterial and venous peripheral vascular occlusion] Sturm A, et al. **Verh Dtsch Ges Inn Med** 1989;95:213–20 (7 ref.) (Ger)

[Status of tracheotomy in treatment of the respiratory emergency in anaplastic thyroid cancer] Hölting T, et al. **Wien Klin Wochenschr** 1990 Apr 27;102(9):264–6 (Eng. Abstr.) (Ger)

[Endoscopic sclerotherapy of bleeding Mallory–Weiss mucosal tear] Königsrainer A, et al. **Wien Klin Wochenschr** 1989 Nov 10;101(21):734–5 (Eng. Abstr.) (Ger)

[Rheumatologic emergencies] Langer HE, et al. **Wien Med Wochenschr** 1990 Jun 30;140(12):351–6 (17 ref.) (Eng. Abstr.) (Ger)

[Acute urinary retention—procedure in emergencies outside the clinic] Burgkhardt M, et al. **Z Arztl Fortbild (Jena)** 1989;83(14):719–20 (0 ref.) (Ger)

[The dialysis patient—noli me tangere?] Hornak H, et al. **Z Arztl Fortbild (Jena)** 1989;83(22):1107–10 (Ger)

[Preclinical possibilities of modifying emergency situations with special reference to advanced age from the viewpoint of the general practitioner] Puschmann V. **Z Arztl Fortbild (Jena)** 1989;83(14):711–3 (Ger)

[Pathophysiology and pathobiochemistry of the elderly emergency patient] Schenk H. **Z Arztl Fortbild (Jena)** 1989; 83(14):707–9 (15 ref.) (Ger)

[The spinal emergency. Urgent indications for surgical intervention in spondylogenic lumbar processes] Schön R, et al. **Z Arztl Fortbild (Jena)** 1989;83(24):1251–2 (Ger)

[Epidemiology of emergencies in advanced age] Schüler H, et al. **Z Arztl Fortbild (Jena)** 1989;83(14):721–5 (Ger)

[Resuscitation in the elderly] Sefrin P, et al. **Z Arztl Fortbild (Jena)** 1989;83(14):715–8 (Ger)

[Pathomorphologic contribution to the epidemiology of emergency medical conditions in advanced age] Theuring F. **Z Arztl Fortbild (Jena)** 1989;83(14):703–6 (Ger)

[Life-threatening complications caused by Argas reflexus (Ixodoidea, Argasidae)] Bauch RJ, et al. **Z Gesamte Hyg** 1990 Jun;36(6):308–11 (Eng. Abstr.) (Ger)

[Emergencies and management by the family practitioner] Wiesner G, et al. **Z Gesamte Hyg** 1990 Jan;36(1):11–4 (Eng. Abstr.) (Ger)

[Diagnoses in the medical house call] Wiesner G. **Z Gesamte Hyg** 1990 Jan;36(1):14–6 (Eng. Abstr.) (Ger)

[Priapism following intracavernous injection of vasoactive substances as a urologic emergency] Papadopoulos I, et al. **Z Urol Nephrol** 1990 May;83(5):233–7 (Eng. Abstr.) (Ger)

[11th Congress of Emergency Surgeons of East Germany with international participation. 6–9 November 1988, Leipzig. Abstracts] **Zentralbl Chir** 1989;114(17):1171–80 (Ger)

[Blunt kidney injuries in children] Belgerden S, et al. **Zentralbl Chir** 1990;115(3):157–60 (Eng. Abstr.) (Ger)

[Emergency surgery in Crohn disease] Eigler FW, et al. **Zentralbl Chir** 1989;114(13):821–8 (33 ref.) (Eng. Abstr.) (Ger)

[Surgical treatment of hemorrhaging gastroduodenal ulcer. Individually adapted indications] Unger W, et al. **Zentralbl Chir** 1989;114(22):1441–50 (Eng. Abstr.) (Ger)

[Meckel's diverticulum as a rare cause of massive intestinal hemorrhage] Wolters U, et al. **Zentralbl Chir** 1989; 114(13):851–4 (Ger)

[Emergency cardiopulmonary bypass for cardiopulmonary-cerebral resuscitation] Kano T, et al. **Masui** 1989 Jul;38(7):932–40 (Eng. Abstr.) (Jpn)

[Emergency perfusion lung scan for pulmonary embolism] Nomura Y, et al. **Rinsho Hoshasen** 1990 Feb;35(2):249–52 (Eng. Abstr.) (Jpn)

[Automobile driving—in shock and greatly stressed] Rasmussen LN. **Nord Med** 1990;105(3):86, 92 (Nor)

[Postoperative analgesia using moradol in emergency surgery] Akhundov AA, et al. **Anesteziol Reanimatol** 1990 May–Jun;(3):30–3 (Eng. Abstr.) (Rus)

[Experience with the use of acupuncture by mobile health units] Multykh VE, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):58–9 (Rus)

[Emergency craniocerebral hypothermia in the management of open mitral commissurotomy] Naumenko SE. **Anesteziol Reanimatol** 1990 May–Jun;(3):63–6 (Eng. Abstr.) (Rus)

[Evaluation of the operator's readiness for emergency action] Egorov SV, et al. **Kosm Biol Aviakosm Med** 1990 Jan–Feb; 24(1):52–3 (Rus)

[Automated medical records in emergency surgery] Briskin BS, et al. **Sov Med** 1989;(8):50–3 (Rus)

[Demand for care in the emergency service department of a pediatric hospital] Sánchez Bayle M, et al. **An Esp Pediatr** 1989 Aug;31(2):127–33 (Eng. Abstr.) (Spa)

[Treatment of asthma in the emergency clinic of a pediatric hospital] Mohs E, et al. **Bol Of Sanit Panam** 1989 Aug; 107(2):101–7 (Eng. Abstr.) (Spa)

EPIDEMIOLOGY

Chief complaint of 3,545 pediatric patients at the emergency room of San Pablo Hospital during a five months period. Mayol PM, et al. **Boi Asoc Med P R** 1989 Nov;81(11):430–2

[Epidemiology of gyneco-obstetric emergencies (within the framework of emergency medical care)] Gaillard M, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989;18(6):707–13 (Eng. Abstr.) (Fre)

[Emergencies in otorhinolaryngology: etiologic study] Cuchí Broquetas A. **An Otorrinolaringol Ibero Am** 1989; 16(5):485–504 (Eng. Abstr.) (Spa)

[Usefulness of sectorization of pediatric hospital emergency units in the community of Madrid] Sánchez Bayle M, et al. **Gac Sanit** 1989 Sep–Oct;3(14):507–9 (Eng. Abstr.) (Spa)

PSYCHOLOGY

[Theoretical considerations on psychological symptoms in a crisis situation. Psychotherapeutic consequences] Souris M. **Acta Psychiatr Belg** 1988 Jul–Aug;88(4):281–90 (Eng. Abstr.) (Fre)

[Evaluation of the operator's readiness for emergency action] Egorov SV, et al. **Kosm Biol Aviakosm Med** 1990 Jan–Feb; 24(1):52–3 (Rus)

VETERINARY

Critical care. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1007–306

Critical care—the overview. Kirby R. **Vet Clin North Am Small Anim Pract** 1989 Nov; 19(6):1007–19 (9 ref.)

EMERGENCY CARE see **EMERGENCY MEDICAL SERVICES**

EMERGENCY HEALTH SERVICES see **EMERGENCY MEDICAL SERVICES**

EMERGENCY MEDICAL SERVICE COMMUNICATION SYSTEMS see under **EMERGENCY MEDICAL SERVICES**

EMERGENCY MEDICAL SERVICES

see related
FIRST AID

Preclinical and clinical care of extremity lesions in polytraumatized patients. Rommens PM, et al. **Acta Chir Belg** 1990 Jan–Feb;90(1):32–8

A triage system for processing fine needle aspiration cytology specimens. Ducatman BS, et al. **Acta Cytol** 1989 Nov–Dec; 33(6):797–9

Emergency angioplasty in acute anterior myocardial infarction. Flaker GC, et al. **Am Heart J** 1989 Dec; 118(6):1154–60

Emergency PTCA for coronary artery occlusion after blunt chest trauma. Sigmund M, et al. **Am Heart J** 1990 Jun; 119(6):1408–10

Echocardiographic evaluation of segmental wall motion early and late after thrombolytic therapy in acute myocardial infarction: the Western Washington Tissue Plasminogen Activator Emergency Room Trial. Otto CM, et al. **Am J Cardiol** 1990 Jan 15;65(3):132–8

Emergencies in continuous dialysis patients: diagnosis and management. Cloonan CC, et al. **Am J Emerg Med** 1990 Mar;8(2):134–48 (249 ref.)

Prehospital use of nifedipine for severe hypertension. Heller MB, et al. **Am J Emerg Med** 1990 Jul;8(4):282–4

Evaluation of the injury profile of personnel in a busy urban EMS system. Hogya PT, et al. **Am J Emerg Med** 1990 Jul;8(4):308–11

International emergency health care development [editorial] Noji E. **Am J Emerg Med** 1989 Nov;7(6):662–3

Successful triage in ambulatory care. Winder PG, et al. **Am J Nurs** 1990 Mar;90(3):28F–28G

Placing patients in the queue for coronary revascularization: evidence for practice variations from an expert panel process. Naylor CD, et al. **Am J Public Health** 1990 Oct; 80(10):1246–52

The CareFlight Stretcher Bridge: a compact mobile intensive care unit. Wishaw KJ, et al. **Anaesth Intensive Care** 1990 May;18(2):234–8

Lack of preventive measures given to patients with stinging insect anaphylaxis in hospital emergency rooms. Hutcheson PS, et al. **Ann Allergy** 1990 Mar;64(3):306–7

Abstracts of the 3rd International Conference on Emergency Medicine. Toronto, Ontario, Canada, June 24–29. **Ann Emerg Med** 1990 May;19(5):605–11

Abstracts of the 20th annual meeting of the Society for Academic Emergency Medicine. Minneapolis, May 21–24. **Ann Emerg Med** 1990 Apr;19(4):447–96

Proceedings of the SAEM–IRIEM research symposium and the ACEP winter symposium. Fort Lauderdale, Florida, February 1989 and Tampa, Florida, March 1989. **Ann Emerg Med** 1989 Dec;18(12):1263–376

Acute myocardial infarction: subtleties of diagnosis in the emergency department. Bresler MJ, et al. **Ann Emerg Med** 1990 Feb;Suppl:1–15

Prehospital cardiac arrest therapy [letter; comment] Brunette D, et al. **Ann Emerg Med** 1990 Mar;19(3):340 Comment on: Ann Emerg Med 1989 May;18(5):507–12.

A review of prehospital care litigation in a large metropolitan EMS system. Goldberg RJ, et al. **Ann Emerg Med** 1990 May;19(5):557–61

Prehospital experience with defibrillation of coarse ventricular fibrillation: a ten-year review. Hargarten KM, et al. **Ann Emerg Med** 1990 Feb;19(2):157–62

EMS in France [letter; comment] Hervé C, et al. **Ann Emerg Med** 1989 Nov;18(11):1259 Comment on: Ann Emerg Med 1987 Mar;16(3):284–92.

Prehospital advanced trauma life support for penetrating cardiac wounds. Honigman B, et al. **Ann Emerg Med** 1990 Feb;19(2):145–50

Studies on prehospital pharmacologic therapy [letter; comment] Jones SE, et al. **Ann Emerg Med** 1990 Mar; 19(3):340–1 Comment on: Ann Emerg Med 1989 Feb;18(2):192–6.

Data collection & observer bias [letter; comment] Petri RW, et al. **Ann Emerg Med** 1990 May;19(5):614 Comment on: Ann Emerg Med 1989 Mar;18(3):244–6.

Field times [editorial] Salomone JA 3d. **Ann Emerg Med** 1989 Oct;18(10):1128

Hyperthermia, pulmonary edema, and disseminated intravascular coagulation in an 18-year-old military recruit [clinical conference] Tek DA, et al. **Ann Emerg Med** 1990 Jun;19(6):715–22

Load and go versus stay and play: analysis of prehospital i.v. fluid therapy by computer simulation. Wears RL, et al. **Ann Emerg Med** 1990 Feb;19(2):163–8

The safety of prehospital naloxone administration by paramedics. Yealy DM, et al. **Ann Emerg Med** 1990 Aug; 19(8):902–5

Treatment for stroke [letter; comment] Gilson SB. **Ann Intern Med** 1989 Dec 15;111(12):1048–9 Comment on: Ann Intern Med 1989 Sep 15;111(6):449–51.

Early "step-down" transfer of low-risk patients with chest pain. A controlled interventional trial. Weingarten S, et al. **Ann Intern Med** 1990 Aug 15;113(4):283–9

Theatre delay for emergency general surgical patients: a cause for concern? Wyatt MG, et al. **Ann R Coll Surg Engl** 1990 Jul;72(4):236–8

Emergency endotracheal intubation in pediatric trauma. Nakayama DK, et al. **Ann Surg** 1990 Feb;211(2):218–23

Gently adjusting open doors [editorial] Carew-McColl M. **Arch Emerg Med** 1990 Jun;7(2):59–60

ABC of major trauma. Initial assessment and management—I: Primary survey. Driscoll P, et al. **BMJ** 1990 May 12; 300(6734):1265–7 (0 ref.)

ABC of major trauma. Paediatric trauma: primary survey and resuscitation—II. Lloyd-Thomas AR. **BMJ** 1990 Aug 18–25;301(6748):380–2 (0 ref.)

Response of the south Manchester accident rescue team to the earthquake in Armenia and the Lockerbie air disaster. Redmond AD. **BMJ** 1989 Sep 2;299(6699):611–2

The benefits of 7.5% NaCl/6% dextran 70 (HSD) for prehospital resuscitation of hemorrhagic shock: improved oxygen transport. Siritongtaworn P, et al. **Braz J Med Biol Res** 1989;22(2):275–8

Canadian Heart Foundation national consensus conference on pre-hospital emergency cardiac care. Wilson EE, et al. **Can J Cardiol** 1989 Sep;5(6):285–6

Management of children with head trauma. Emergency Paediatrics Section, Canadian Paediatric Society. **Can Med Assoc J** 1990 May 1;142(9):949–52 (13 ref.)

Upper airways obstruction presenting as asthma—three case histories. Munro HM, et al. **Cent Afr J Med** 1989 Aug; 35(8):460–4

Emergency "rescue" percutaneous transluminal coronary angioplasty after failed thrombolysis with streptokinase. Early and late results. Holmes DR Jr, et al. **Circulation** 1990 Mar;81(3 Suppl):IV51–6

Dispatcher-assisted cardiopulmonary resuscitation. Validation of efficacy. Kellermann AL, et al. **Circulation** 1989 Nov;80(5):1231–9

Role of the emergency department in decreasing the time to thrombolytic therapy in acute myocardial infarction. Ornato JP. **Clin Cardiol** 1990 Mar;Suppl 5:V48–52; discussion V67–72 (35 ref.)

Airway intubation in injured patients at the scene of an accident. Gabram SG, et al. **Conn Med** 1989 Nov; 53(11):633–7

Trauma index revisited: a better triage tool. Smith JS Jr, et al. **Crit Care Med** 1990 Feb;18(2):174–80

Emergency care of the elderly. **Emerg Med Clin North Am** 1990 May;8(2):183–459

Emergency aspects of drug abuse. **Emerg Med Clin North Am** 1990 Aug;8(3):467–723

EMS/prehospital care. **Emerg Med Clin North Am** 1990 Feb; 8(1):1–175

Geriatric emergency clinical pharmacology. Fox FJ, et al. **Emerg Med Clin North Am** 1990 May;8(2):221–39 (90 ref.)

Burns in the elderly patient. Jerrard DA, et al. **Emerg Med Clin North Am** 1990 May;8(2):421–8 (25 ref.)

Multiple trauma and the elderly patient. Martin RE, et al. **Emerg Med Clin North Am** 1990 May;8(2):411–20 (22 ref.)

The Clapham rail disaster. Stevens KL, et al. **Injury** 1990 Jan;21(1):37–40; discussion 55–7

Perimeter encoding for teleradiology. Caresio JF, et al. **Invest Radiol** 1990 Jul;25(7):811–2

Myocardial Infarction Triage and Intervention Project—phase I: patient characteristics and feasibility of prehospital initiation of thrombolytic therapy [see comments] Weaver WD, et al. **J Am Coll Cardiol** 1990 Apr;15(5):925–31 Comment in: J Am Coll Cardiol 1990 Apr;15(5):937–9.

Mandatory in–flight medical equipment earns high marks [editorial] Northup GW. **J Am Osteopath Assoc** 1990 Feb; 90(2):128, 131

Emergency physicians and special events [editorial; comment] Brunko M. **J Emerg Med** 1989 Jul–Aug; 7(4):405–6 Comment on: J Emerg Med 1989 Jul–Aug;7(4):379–84.

Microcomputer–assisted transmission of disaster data by cellular telephone. Wigder HN, et al. **J Emerg Med** 1989 Nov–Dec;7(6):651–5

The child in the EMS system [published erratum appears in J Fla Med Assoc 1989 Dec;76(12):1015] Luten RC. **J Fla Med Assoc** 1989 Sep;76(9):783–6

A critical care helicopter system in trauma. Jacobs LM, et al. **J Natl Med Assoc** 1989 Nov;81(11):1157–67 (48 ref.)

Telephone triage in the office setting. Kelley M, et al. **J Nurse Midwifery** 1990 Jul–Aug;35(4):245–51

Paramedic and emergency medical technician clinical encounter management system for Tennessee. Auerbach PS. **J Tenn Med Assoc** 1990 Feb;83(2):63–70

Pediatric trauma: getting triage right [letter; comment] Di Scala C. **JAMA** 1990 May 9;263(18):2447 Comment on: JAMA 1990 Jan 5;263(1):69–72.

Medicolegal and bioethical responsibilities in triage. Ficarra BJ. **Leg Med** 1989;:201–19 (34 ref.)

Helicopter medical transport service [letter; comment] Cowles AL. **Mayo Clin Proc** 1990 Mar;65(3):436 Comment on: Mayo Clin Proc 1989 Oct;64(10):1213–25.

Impact of initial triage decisions on nursing intensity for patients with acute chest pain. Lee TH, et al. **Med Care** 1990 Aug;28(8):737–45

After triage: lessons learned in Vietnam with military casualties. Schultz RJ. **Milit Med** 1990 May;155(5):221–2

Flugtag–88 (Ramstein Air Show Disaster): an Army response to a MASCAL. Seletz JM. **Milit Med** 1990 Apr; 155(4):152–5

The emergency medicine specialist in combat triage: a new and untapped resource [editorial] Walsh DP, et al. **Milit Med** 1990 Apr;155(4):187–9

Resuscitation of cardiac arrest victims by advanced life support units in Monroe County, New York. Sweeney TA, et al. **N Y State J Med** 1989 Dec;89(12):652–4

Waitangirua health centre and the provision of services [letter] Poutasi KO. **N Z Med J** 1990 Feb 28;103(884):80

Care of the multiple trauma victim. The first hour. Beaver BM. **Nurs Clin North Am** 1990 Mar;25(1):11–21

Concerns about contagious disease prompt infection controls for CPR. Yeager M. **Occup Health Saf** 1990 Jul;59(7):51–2

Proceedings of the annual meeting of the American Academy of Pediatrics, Section on Emergency Medicine. Chicago, October 21–22, 1989. **Pediatr Emerg Care** 1989 Dec; 5(4):281–90

Developing prehospital advanced life support for children: the New York City experience. Foltin G, et al. **Pediatr Emerg Care** 1990 Jun;6(2):141–4

Rescuing earthquake victims in Armenia. Frechette CN. **Plast Reconstr Surg** 1989 Nov;84(5):838–40

Emergency management of mass psychogenic illness. Gamino LA, et al. **Psychosomatics** 1989 Fall;30(4):446–9

X–ray requests from nurse practitioners [letter] **Radiogr Today** 1990 May;56(636):34–5

Earthquake radiography. Hussain P. **Radiogr Today** 1990 Apr;56(635):22–5

X–ray requests from nurse practitioners [letter] Jordan M. **Radiogr Today** 1990 Jun;56(637):35

Acute abdomen in AIDS: CT diagnosis and triage. Kuhlman JE, et al. **Radiographics** 1990 Jul;10(4):621–34 (33 ref.)

'Safe oxygen' in acute asthma: prospective trial using 35% Ventimask prior to admission. Ford DJ, et al. **Respir Med** 1989 May;83(3):189–94

Monitoring in emergency medicine. Phillips GD, et al. **Resuscitation** 1989;18 Suppl:S21–35 (41 ref.)

Initiation of resuscitation in patients with prehospital bradyasystolic cardiac arrest in Helsinki. Silfvast T. **Resuscitation** 1990 Apr;19(2):143–50

Advances in prehospital immediate care. Stewart RD. **Resuscitation** 1989;18 Suppl:S13–20 (28 ref.)

A triage system for stab wounds to the chest [letter; comment] Odell JA. **S Afr Med J** 1990 Jan 20;77(2):114 Comment on: S Afr Med J 1989 Sep 2;76(5):211–2.

Pelvic fractures: an analysis of factors affecting prehospital triage and patient outcome. Fox MA, et al. **South Med J** 1990 Jul;83(7):785–8

Fourth French Consensus Conference on intensive care and emergency medicine. Selection of a fluid for vascular expansion in the treatment of hypovolemia in adult patients. **Vox Sang** 1990;58(2):150–1 (0 ref.)

Injuries to search and rescue volunteers. A 30–year experience. Iserson KV. **West J Med** 1989 Sep;151(3):352–3

[Emergency medicine; a new discipline urgently needed] Delooz H, et al. **Ned Tijdschr Geneeskd** 1990 Jul 28; 134(30):1464–6 (Dut)

[Acute Heart Care: what happens with patients who are not immediately hospitalized?] Koster RW, et al. **Ned Tijdschr Geneeskd** 1990 Jul 28;134(30):1454–7 (Eng. Abstr.) (Dut)

[Emergency units: the effect of structure on waiting delays] Pourriat JL, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R73 (Fre)

[Prehospital fibrinolysis with rt–PA in acute myocardial infarction] Sauval P, et al. **Arch Mal Coeur** 1989 Dec; 82(12):1957–61 (Eng. Abstr.) (Fre)

[The new modular field medical units of the Army Health Service] Miné J. **Bull Acad Natl Med** 1989 Nov; 173(8):1073–9; discussion 1079–81 (Eng. Abstr.) (Fre)

[Concerning: "The emergency case" by F. Rieben and H. Duruz (letter)] Favre P. **Rev Med Suisse Romande** 1990 Mar;110(3):300 (Fre)

[Emergency care by the practitioner facing a head injury and a spinal injury] Gaitzsch J, et al. **Rev Med Suisse Romande** 1989 Sep;109(9):761–4 (Fre)

[The emergency case] Rieben F, et al. **Rev Med Suisse Romande** 1989 Dec;109(12):1053–4 (Fre)

[Emergency treatment in decompression accidents in shipyards] Comet M. **Schweiz Z Sportmed** 1989 Aug; 37(2):115–9; discussion 124–30 (Eng. Abstr.) (Fre)

[Prehospital emergency care in Switzerland] Horn R, et al. **Z Unfallchir Versicherungsmed Berufskr** 1989;82(3):199–200 (Fre)

[Helicopter emergency medical system in the Basel region] Demartines N, et al. **Chirurg** 1990 Jun;61(6):457–61 (Eng. Abstr.) (Ger)

[Early defibrillation in the emergency doctor rendezvous system (letter)] Dick W. **Dtsch Med Wochenschr** 1989 Dec 1;114(50):1983–4 (Ger)

[Cardiopulmonary resuscitation of children and adolescents in the prehospital stage] Zimmermann R, et al. **Monatsschr Kinderheilkd** 1990 Jun;138(6):326–30 (Eng. Abstr.) (Ger)

[The helicopter ambulance in primary and secondary rescue operations (editorial)] Frede KE, et al. **Schweiz Rundsch Med Prax** 1990 Jun 19;79(25):785–6 (Ger)

[Electronics against fear, emergency call systems for the elderly] Schmidt–Lenoir F. **Ther Umsch** 1989 Oct; 46(10):727–31 (Eng. Abstr.) (Ger)

[The treatment of acute heart failure] Teichmann W. **Z Gesamte Inn Med** 1990 Jun 15;45(12):340–2 (25 ref.) (Eng. Abstr.) (Ger)

[Emergency treatment in clinical practice in incidents following injections] Bernau A, et al. **Z Orthop** 1990 May–Jun;128(3):322–7 (Eng. Abstr.) (Ger)

[Utilization of helicopters for the prevention of secondary cerebral lesions in severe craniocerebral injuries] Genoni M, et al. **Z Unfallchir Versicherungsmed Berufskr** 1989; 82(3):163–7 (Eng. Abstr.) (Ger)

[Problems of the emergency care system (editorial)] Suzuki M. **Masui** 1990 Feb;39(2):137 (Jpn)

[Emergency medical services] **Seishin Shinkeigaku Zasshi** 1989;91(12):1104–8 (Jpn)

[Emergency medicine and ambulances (editorial)] Nylenna M, et al. **Tidsskr Nor Laegeforen** 1989 Nov 30; 109(33):3400–1 (Nor)

[Prehospital care of victims of traffic accidents (First Aid Medical Service of the Highway Development Corp.)] Okumura M. **Rev Hosp Clin Fac Med Sao Paulo** 1989 May–Jun;44(3):128–32 (Eng. Abstr.) (Por)

[Organization of the emergency care course for undergraduate students of the therapeutics department] Lazebnik LB, et al. **Sov Med** 1989;(7):67–9 (Rus)

[Subpleural blocking in the treatment of ischemic heart disease during the prehospital stage] Zaĭtsev OG, et al. **Sov Med** 1989;(7):69–71 (Rus)

[Successful defibrillation in emergency medical care] Kovač D. **Med Arh** 1988;42(1–2):67–8 (Eng. Abstr.) (Scr)

ECONOMICS

Physicians' patient load per DRG, the consumption of hospital resources, and the incentives of the DRG prospective payment system. Munoz E, et al. **Acad Med** 1990 Aug;65(8):533–8

Cost–effectiveness: asserted, not shown [letter; comment] Davidson SJ. **Ann Emerg Med** 1990 May;19(5):614–5 Comment on: Ann Emerg Med 1988 Oct;17(10):1042–8.

Financial analysis of an inner–city helicopter service: charges versus collections for patients transferred from another acute care facility. Woods JR, et al. **Ann Emerg Med** 1989 Nov;18(11):1240–3

Financial considerations in emergency medical services systems. Smith JE. **Emerg Med Clin North Am** 1990 Feb; 8(1):155–61

An all–payor prospective payment system (PPS) based on diagnosis–related–groups (DRG): financial impact on reimbursement for trauma care and approaches to minimizing loss. Joy SA, et al. **J Trauma** 1990 Jul; 30(7):866–73

HISTORY

[Organization of the admission of the wounded and sick to therapeutic installations of local evacuation centers during World War II] Bobil BV. **Voen Med Zh** 1989 Oct;(10):63–5 (Rus)

LEGISLATION & JURISPRUDENCE

Emergency medical services legal issues for the emergency physician. Frew SA. **Emerg Med Clin North Am** 1990 Feb; 8(1):41–55

Prehospital DNR orders. Iserson KV, et al. **Hastings Cent Rep** 1989 Nov–Dec;19(6):17; discussion 17–9

[Emergency activities of the practitioner and his legal responsibility] Restellini JP. **Rev Med Suisse Romande** 1989 Dec;109(12):1055 (Fre)

[Recent aspects of emergency service responsibilities for public health services] Weber K. **Off Gesundheitswes** 1989 Nov;51(11):674–81 (Eng. Abstr.) (Ger)

MANPOWER

Surgeons and trauma care [letter] Dykes EH. **BMJ** 1989 Aug 19;299(6697):513

The hospital trauma team: a model for trauma management. Deane SA, et al. **J Trauma** 1990 Jul;30(7):806–12

[An ambulance manned by physicians—a different model] Hansen TB, et al. **Ugeskr Laeger** 1990 Jun 4;152(23):1670–2 (Eng. Abstr.) (Dan)

METHODS

Cardiac arrest and resuscitation: a tale of 29 cities. Eisenberg MS, et al. **Ann Emerg Med** 1990 Feb;19(2):179–86

Vital signs as part of the prehospital assessment of the pediatric patient: a survey of paramedics. Gausche M, et al. **Ann Emerg Med** 1990 Feb;19(2):173–8

Emergency alarms. Davies KN. **BMJ** 1990 Jun 30; 300(6741):1713–5

Assessing injury severity during general war. Will the Military Triage system meet future needs? Ryan JM, et al. **J R Army Med Corps** 1990 Feb;136(1):27–35

Evaluation of the Pediatric Trauma Score [see comments] Kaufmann CR, et al. **JAMA** 1990 Jan 5;263(1):69–72 Comment in: JAMA 1990 May 9;263(18):2447.

ORGANIZATION & ADMINISTRATION

Mat–Su Borough EMS. Koechlein K, et al. **Alaska Med** 1990 Jan–Mar;32(1):6–8

Efficiency and cost–effectiveness of advanced EMS in West Germany. Riediger G, et al. **Am J Emerg Med** 1990 Jan; 8(1):76–80

Prehospital resuscitation in Helsinki, Finland. Silfvast T. **Am J Emerg Med** 1990 Jul;8(4):359–64

Going into business as a nurse. Welton JM. **Am J Nurs** 1989 Dec;89(12):1639–41

The M1 air crash. The demands placed on anaesthetic and intensive care services of two hospitals. Coad NR, et al. **Anaesthesia** 1989 Oct;44(10):851–4

Characteristics of midsized urban EMS systems. Braun O, et al. **Ann Emerg Med** 1990 May;19(5):536–46

Southeast Alaska to Seattle emergency medical air transports: demographics, stabilization, and outcomes. Fallon MJ, et al. **Ann Emerg Med** 1990 Aug;19(8):914–21

The effect of base station contact on ambulance destination. Neely K, et al. **Ann Emerg Med** 1990 Aug;19(8):906–9

Effect of standing orders on field times. Pointer JE, et al. **Ann Emerg Med** 1989 Oct;18(10):1119–21

Differences in air ambulance patient mix demonstrated by physiologic scoring. Rhee KJ, et al. **Ann Emerg Med** 1990 May;19(5):552–6

Computer modeling of emergency medical system performance. Valenzuela TD, et al. **Ann Emerg Med** 1990 Aug;19(8):898–901

The development of prehospital emergency medical services (PEMS) in China. Ding Z. **Arch Emerg Med** 1990 Jun; 7(2):61–4

Guide to developing an industrial disaster medical service. **Arch Environ Health** 1967 Jul;15(1):119–30

Triage considerations in medical intensive care. Franklin C, et al. **Arch Intern Med** 1990 Jul;150(7):1455–9

Triage labels: choosing the national standard [letter; comment] Hines KC, et al. **BMJ** 1989 Sep 30;299(6703):854 Comment on: BMJ 1989 Sep 2;299(6699):620.

Integration of ambulance staff trained in cardiopulmonary resuscitation with a medical team providing prehospital coronary care. McCrea WA, et al. **Br Heart J** 1989 Dec; 62(6):417–20

Emergency medical services for treatment of mass casualties. Barrier G. **Crit Care Med** 1989 Oct;17(10):1062–7

A child–oriented emergency medical services system. Ludwig S, et al. **Curr Probl Pediatr** 1990 Mar;20(3):109–58

Ambulatory Track: on the right track. Hodges SR. **Dimens Health Serv** 1990 May;67(4):21–3

Mass casualty incident. Integration with prehospital care. Doyle CJ. **Emerg Med Clin North Am** 1990 Feb;8(1):163–75 (11 ref.)

Emergency medical services system design. Narad RA. **Emerg Med Clin North Am** 1990 Feb;8(1):1–15 (15 ref.)

Communication with emergency medical services providers. Stewart C. **Emerg Med Clin North Am** 1990 Feb; 8(1):103–17 (8 ref.)

Facilities and regionalization—emergency medical services systems. Stewart RD. **Emerg Med Clin North Am** 1990 Feb; 8(1):33–40 (12 ref.)

Organisation of the emergency medical services for the village population of the Plovdiv region. Dimitrov I, et al. **Folia Med (Plovdiv)** 1988;30(4):39–41

Medical response to major disasters. Stoke on Trent, UK, 2–3 June 1989. **Injury** 1990 Jan;21(1):1–64

The British Association for Immediate Care (BASICS). Its experience in major disasters, with special reference to the

role of the medical incident officer. Fisher JM. **Injury** 1990 Jan;21(1):45–8; discussion 55–7
Lessons to be learned from the major disaster following the civil airliner crash at Kegworth in January 1989. Malone WD. **Injury** 1990 Jan;21(1):49–52; discussion 55–7
The work of the South Manchester Accident Rescue Team (SMART). Redmond AD. **Injury** 1990 Jan;21(1):21–4; discussion 29–33
Major disasters: an ambulance service view. Thornley F. **Injury** 1990 Jan;21(1):34–6; discussion 55–7
Criteria for the assessment of disaster preparedness. de Boer J. **J Emerg Med** 1989 Sep–Oct;7(5):481–4
Effect of crowd size on patient volume at a large, multipurpose, indoor stadium [see comments] De Lorenzo RA, et al. **J Emerg Med** 1989 Jul–Aug;7(4):379–84 Comment in: J Emerg Med 1989 Jul–Aug;7(4):405–6.
Operation Nightingale: the role of BMH Dharan following the 1988. Nepal earthquake, and some observations on Third World earthquake disaster relief missions. Guy PJ, et al. **J R Army Med Corps** 1990 Feb;136(1):7–18
The Ramstein airshow disaster. Martin TE. **J R Army Med Corps** 1990 Feb;136(1):19–26
Emergency medical response teams react swiftly to Phillips plant tragedy. Merriman M. **Occup Health Saf** 1990 Mar; 59(3):32–6
A visit to the Soviet Union. Vosk A. **Pa Med** 1990 Feb; 93(2):36–8
Toward a comprehensive emergency medical system for children. Haller JA Jr. **Pediatrics** 1990 Jul;86(1):120–2
Report on the International Conference on Emergency Health Care Development. Dines GB. **Public Health Rep** 1990 Jan–Feb;105(1):76–9
[Scientific management of outpatient departments and emergency clinics] Yu HZ. **Chung Hua Hu Li Tsa Chih** 1989 Jul;24(7):423–4 **(Chi)**
[Prehospital treatment. The Odense ambulance project. A prospective study] Larsen CF, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1886–91 (Eng. Abstr.) **(Dan)**
[Ambulance services for patients with acute cardiac conditions in Denmark—current state] Lybecker H, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1892–5 (Eng. Abstr.) **(Dan)**
[First aid in cases of out-of-hospital heart arrest] Lybecker H, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1895–7 (Eng. Abstr.) **(Dan)**
[Out-of-hospital heart arrest. Prospective study of various types of expanded prehospital treatment in Odense] Nielsen JR, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1898–901 (Eng. Abstr.) **(Dan)**
[Acute prehospital treatment] Sørensen MB. **Ugeskr Laeger** 1990 Jun 25;152(26):1881 **(Dan)**
[Organization of first aid and intermediate management] Kinnunen A. **Duodecim** 1990;106(1):33–40 (39 ref.) **(Fin)**
[Transportation of patients in the prehospital phase: education of physicians] Moeschler O, et al. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):178–83 (Eng. Abstr.) **(Fre)**
[Immediate reaction of the Urgent Medical Aid Unit—current aspects of organization and management] Handschak H. **Anaesthesiol Reanim** 1990;15(1):9–18 (Eng. Abstr.) **(Ger)**
[The use of computers in the Urgent Medical Aid Unit—preparation and planning] Schumacher M, et al. **Anaesthesiol Reanim** 1990;15(1):19–24 (Eng. Abstr.) **(Ger)**
[Medical and health care organizational aspects of emergency home visiting services (results of a study in 3 territorial areas of the DRG)] Ehle G, et al. **Sante Publique (Bucur)** 1989 Jul–Sep;32(3):253–61 **(Ger)**
[Integration of the hospital coronary care unit with the first aid service for the domiciliary treatment of cardiovascular emergencies] Rossi P, et al. **G Ital Cardiol** 1989 Aug; 19(8):694–700 (Eng. Abstr.) **(Ita)**
[Operative central unit for coordinating the emergencies–urgencies department. Proposal for a mini-unit to solve the problems caused by the relation between volunteer associations and the public structure] Tulli G, et al. **Minerva Anestesiol** 1989 Oct;55(10):393–6 (Eng. Abstr.) **(Ita)**
[Emergency medicine and telemedicine] Solheim K. **Tidsskr Nor Laegeforen** 1990 Mar 20;110(8):936–7 **(Nor)**
[Emergency care and primary routines in the treatment of severe injuries] Søndenaa K, et al. **Tidsskr Nor Laegeforen** 1990 Mar 20;110(8):938–42 **(Nor)**
[Emergency medical services] Stokstad I. **Tidsskr Nor Laegeforen** 1990 Apr 10;110(10):1258–9 **(Nor)**
[Experience with the use of acupuncture by mobile health units] Multykh VE, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):58–9 **(Rus)**
[Selection of methods of anesthesia and intensive treatment of patients with long-term crush syndrome (work experience in the Armenian SSR from December 8 to December 26, 1988)] Rudenko MI, et al. **Anesteziol Reanimatol** 1990 Mar–Apr;(2):46–9 **(Rus)**
[Thrombolytic treatment of myocardial infarction at the prehospital and hospital stage] Staroverov II, et al. **Kardiologiia** 1990 Feb;30(2):49–53 (Eng. Abstr.) **(Rus)**
[The organization of medical aid in mass thermal injuries] Povstianoĭ NE, et al. **Klin Khir** 1990;(3):54–7 **(Rus)**
[Intensive therapy of patients with long-term crush syndrome (data of the earthquake in Armenian SSR in December 1988)] Ivashkin VT, et al. **Klin Med (Mosk)** 1990 May; 68(5):40–4 **(Rus)**
[Experience with the organizational and medical support for emergency measures in eye injuries] Lazarenko VI, et al. **Oftalmol Zh** 1989;(7):393–5 (Eng. Abstr.) **(Rus)**
[Tactics in long-term crush syndrome] Osepian IA, et al. **Ortop Travmatol Protez** 1990 May;(5):62–6 **(Rus)**
[Organization of medical services for the victims of the earthquake in the Armenian SSR] Tumian SD, et al. **Ortop Travmatol Protez** 1990 Apr;(4):53–6 **(Rus)**
[Several unsolved problems of the organization of emergency health services] Boiarinova EA, et al. **Sov Med** 1990; (5):63–6 **(Rus)**
[Groundless recommendations for hospitalization: a defect in the organization of emergency therapeutic care] Shteingardt IuV, et al. **Sov Med** 1989;(12):32–4 **(Rus)**
[Organization of medical services for the victims of the earthquake in Armenian SSR] Teriaev VG, et al. **Sov Med** 1989;(10):3–7 **(Rus)**
[Prospects of the development of emergency medical services for a rural population] Prisakar' IF, et al. **Sov Zdravookhr** 1990;(1):18–22 (Eng. Abstr.) **(Rus)**
[Emergency medical services in Moscow based on the catchment area principle] Shmatov AV, et al. **Sov Zdravookhr** 1990;(3):22–6 (Eng. Abstr.) **(Rus)**
[The organization of medical services for the earthquake victims in the city of Spitak (report I)] Satsukevich VN, et al. **Vestn Khir** 1990 Feb;144(2):143–6 **(Rus)**
[Organization of medical services for the victims of the earthquake in the city of Spitak, Armenian S.S.R.] Satsukevich VN, et al. **Vestn Khir** 1990 Mar;144(3):66–70 (Eng. Abstr.) **(Rus)**
[Principles of the treatment of patients with combined injuries and multiple fractures] Tkachenko SS, et al. **Vestn Khir** 1990 Mar;144(3):71–6 (Eng. Abstr.) **(Rus)**
[The organization of surgical care in the Arzamas catastrophe] Anisimov VN, et al. **Voen Med Zh** 1989 Dec; (12):20–2 **(Rus)**
[The principles of rendering surgical care in catastrophes] Briusov PG. **Voen Med Zh** 1990 Apr;(4):29–32 (Eng. Abstr.) **(Rus)**
[Aviation support of measures for rendering medical care to the victims of natural disasters, accidents and catastrophes] Bugrov SA, et al. **Voen Med Zh** 1990 Apr; (4):22–5 (Eng. Abstr.) **(Rus)**
[Experience in supplying medical stores in eliminating the consequences of catastrophes] Chernousov VA. **Voen Med Zh** 1990 Apr;(4):27–8 **(Rus)**
[The organization of health and hygiene measures for the troops participating in the elimination of the consequences of catastrophes] Chvyrev VG, et al. **Voen Med Zh** 1990 Apr;(4):59–63 **(Rus)**
[The organization of care for burn victims in catastrophes] Fedorov VD, et al. **Voen Med Zh** 1990 Apr;(4):38–41 (Eng. Abstr.) **(Rus)**
[THe activities of the medical service for airborne troops in eliminating the consequences of catastrophes] Grebeniuk BV. **Voen Med Zh** 1990 Apr;(4):26–7 **(Rus)**
[The organization of specialized therapeutic care for the victims in the earthquake in Armenia] Ivashkin VT, et al. **Voen Med Zh** 1990 Mar;(3):25–31 **(Rus)**
[The therapeutic problems of medicine in catastrophes] Ivashkin VT, et al. **Voen Med Zh** 1990 Apr;(4):32–7 (Eng. Abstr.) **(Rus)**
[The neurosurgical aspects of medicine in catastrophes] Konvalov AN, et al. **Voen Med Zh** 1990 Apr;(4):41–3 (Eng. Abstr.) **(Rus)**
[Characteristics of the organization of medical care in mass health casualties during the earthquake in Armenia] Korotkikh PP, et al. **Voen Med Zh** 1989 Dec;(12):19–20 **(Rus)**
[Work support and organization of a surgical group from the leadership staff of a specialized medical care unit during the elimination of the aftereffects of the earthquake in Armenia] Nechaev EA, et al. **Voen Med Zh** 1989 Nov; (11):24–8 **(Rus)**
[The methodological basis for a medical system in extreme situations] Nechaev EA, et al. **Voen Med Zh** 1990 Apr; (4):5–10 (Eng. Abstr.) **(Rus)**
[An expert assessment of the organization of medical care in peacetime catastrophes] Potapov AI, et al. **Voen Med Zh** 1990 Apr;(4):11–4 (Eng. Abstr.) **(Rus)**
[The organization of medical care for the Missile Forces in extreme situations] Ramodin GI. **Voen Med Zh** 1990 Apr; (4):14–8 (Eng. Abstr.) **(Rus)**
[The anesthesiological-resuscitation aspects and the medical problems of catastrophes] Riabov GA, et al. **Voen Med Zh** 1990 Apr;(4):46–9 (13 ref.) (Eng. Abstr.) **(Rus)**
[The organization of the work of a center for providing medical care in an earthquake focus] Satsukevich VN, et al. **Voen Med Zh** 1989 Jul;(7):20–4 **(Rus)**
[The organization of protection and of the delivery of medical care for the population of the USA in catastrophes and other emergency conditions] Vorob'ev AI. **Voen Med Zh** 1990 Apr;(4):68–72 (11 ref.) **(Rus)**
[Medical support in the accidents of ships and vessels at sea] Zheglov VV. **Voen Med Zh** 1990 Apr;(4):18–21 (Eng. Abstr.) **(Rus)**
[Organization of the care of the wounded and ill under conditions of nuclear radiation and radioactive contamination] Arandelović S, et al. **Vojnosanit Pregl** 1990 Mar–Apr;47(2):83–90 (Eng. Abstr.) **(Scr)**
[What can we learn from the ferryboat accident in Zeebrugge? To be well prepared is the best way to meet disasters] Jakobson J. **Lakartidningen** 1990 Mar 14; 87(11):827, 829 **(Swe)**

STANDARDS

Triage decisions in child care for sick children. Desguin BW, et al. **Am J Dis Child** 1990 Feb;144(2):190–6
Success rates for initiation of intravenous therapy en route by prehospital care providers. Slovis CM, et al. **Am J Emerg Med** 1990 Jul;8(4):305–7
Emergency department deaths. Webb GL, et al. **Am J Surg** 1990 Apr;159(4):377–9
Refusing care to patients who present to an emergency department. Derlet RW, et al. **Ann Emerg Med** 1990 Mar; 19(3):262–7
Attention to prehospital care [letter; comment] Kuehl A. **Ann Emerg Med** 1990 Jan;19(1):105 Comment on: Ann Emerg Med 1989 Aug;18(8):812–4.
Medicolegal documentation of prehospital triage. Selden BS, et al. **Ann Emerg Med** 1990 May;19(5):547–51
Prehospital cricothyrotomy: an investigation of indications, technique, complications, and patient outcome. Spaite DW, et al. **Ann Emerg Med** 1990 Mar;19(3):279–85
A computer-assisted quality assurance audit in a multiprovider EMS system. Swor RA, et al. **Ann Emerg Med** 1990 Mar;19(3):286–90
Response capability during civil air carrier inflight medical emergencies. Hordinsky JR, et al. **Aviat Space Environ Med** 1989 Dec;60(12):1211–4
A comparison of emergency medical helicopter accident rates in the United States and the Federal Republic of Germany. Rhee KJ, et al. **Aviat Space Environ Med** 1990 Aug; 61(8):750–2
Triage labels: choosing the national standard [letter] [see comments] Mackway-Jones K, et al. **BMJ** 1989 Sep 2; 299(6699):620 Comment in: BMJ 1989 Sep 30;299(6703):854.
Emergency services in Rhodes [letter] Stock S. **BMJ** 1990 Feb 24;300(6723):540
Improving the management of major trauma. Clark C. **Br J Anaesth** 1990 Feb;64(2):139–41 (6 ref.)
A pilot study of paramedic-administered, prehospital thrombolysis for acute myocardial infarction. Sherrid M, et al. **Clin Cardiol** 1990 Jun;13(6):421–4
Medical accountability. Krentz MJ, et al. **Emerg Med Clin North Am** 1990 Feb;8(1):17–32 (16 ref.)
Controversies in prehospital care. McSwain NE Jr. **Emerg Med Clin North Am** 1990 Feb;8(1):145–54
Quality assurance in emergency medical service systems. Polsky SS, et al. **Emerg Med Clin North Am** 1990 Feb; 8(1):75–84
Paediatric post-injury management: a hospital-based review of deaths. Wheatley J, et al. **J Paediatr Child Health** 1990 Feb;26(1):25–30
Preventable trauma deaths in The Netherlands—a prospective multicenter study. Draaisma JM, et al. **J Trauma** 1989 Nov;29(11):1552–7
Prospective analysis of rural interhospital transfer of injured patients to a referral trauma center. Martin GD, et al. **J Trauma** 1990 Aug;30(8):1014–9; discussion 1019–20
Improved quality of care and reduction of housestaff workload using trauma nurse practitioners. Spisso J, et al. **J Trauma** 1990 Jun;30(6):660–3; discussion 663–5
Defibrillator failures. Causes of problems and recommendations for improvement. Defibrillator Working Group. Cummins RO, et al. **JAMA** 1990 Aug 22–29; 264(8):1019–25
Assessment of priority for coronary revascularisation procedures. Revascularisation Panel and Consensus Methods Group. Naylor CD, et al. **Lancet** 1990 May 5; 335(8697):1070–3 (0 ref.)
Cardiac arrest telephone numbers [letter] Rothwell PM, et al. **Lancet** 1990 Jun 9;335(8702):1407
Clinical performance in a field exercise for the National Disaster Medical System. Holohan TV, et al. **Milit Med** 1989 Dec;154(12):587–9
Aeromedical emergency trauma services and mortality reduction in rural areas. Freilich DA, et al. **N Y State J Med** 1990 Jul;90(7):358–65 (76 ref.)
American Medical Association Commission on Emergency Medical Services: Pediatric emergencies. An excerpt from "Guidelines for the Categorization of Hospital Emergency Capabilities". **Pediatrics** 1990 May;85(5):879–87
Something especially good is happening [editorial] Lamont JH. **Wis Med J** 1989 Nov;88(11):14
[Emergency care for severely injured patients] Goris RJ. **Ned Tijdschr Geneeskd** 1990 Jul 28;134(30):1439–42 **(Dut)**

STATISTICS & NUMERICAL DATA

Measuring the impact of trauma care on survival: rates of preventable death, effectiveness, and efficacy. Salmi LR, et al. **J Clin Epidemiol** 1990;43(4):399–403
Preparedness for pediatric emergencies encountered in the practitioner's office. Altieri M, et al. **Pediatrics** 1990 May; 85(5):710–4

SUPPLY & DISTRIBUTION

Planning for disasters: sheltering persons with special health needs [news] Gulitz E, et al. **Am J Public Health** 1990 Jul;80(7):879–80

From the Congressional Office of Technology Assessment. Hewitt M. **JAMA** 1990 Apr 25;263(16):2159

TRENDS

Emergency medicine: winning the revolution! Anzinger RK. **Ann Emerg Med** 1990 Jan;19(1):90–4

Future role of thrombolytic therapy in emergency medicine. Bresler MJ. **Ann Emerg Med** 1989 Dec;18(12):1331–8 (41 ref.)

Emergency Medical Services communications planning in Alaska. Johnson MS. **Arctic Med Res** 1988;47 Suppl 1:394–7

Emergency care: past, present, and future. Krentz MJ. **Compr Ther** 1989 Oct;15(10):3–7

The impact of emergency medical helicopters on prehospital care. Gabram SG, et al. **Emerg Med Clin North Am** 1990 Feb;8(1):85–102 (51 ref.)

Innovations in emergency medical services systems. Hauswald M, et al. **Emerg Med Clin North Am** 1990 Feb; 8(1):135–44 (17 ref.)

Prehospital therapy past, present, and future. MacLeod BA, et al. **Emerg Med Clin North Am** 1990 Feb;8(1):57–74 (117 ref.)

MAST: an integral part of Hawaii state emergency medical services. Cummons CL, et al. **Hawaii Med J** 1989 Oct; 48(10):421–2, 425–6, 429

The evolution of trauma care in the United Kingdom. Gissane Memorial lecture 1989. Irving M. **Injury** 1989 Nov; 20(6):317–21

Air medical transport services: a marriage of aviation and medicine. Benson NH. **Mayo Clin Proc** 1989 Oct; 64(10):1315–9

[Strategies of thrombolysis in the pre–hospital phase in infarction] Bassand JP. **Presse Med** 1989 Nov 18; 18(38):1875–9 (Eng. Abstr.) (Fre)

[The development of emergency medical care in East Germany—a status report] Scheidler K. **Anaesthesiol Reanim** 1989;14(6):321–6 (25 ref.) (Eng. Abstr.) (Ger)

[Future emergency departments: the city emergency center or a qualified unit for the severely ill and injured] Brismar B. **Lakartidningen** 1989 Dec 6;86(49):4314–5 (Swe)

UTILIZATION

The effect of urban trauma system hospital bypass on prehospital transport times and Level 1 trauma patient survival. Sloan EP, et al. **Ann Emerg Med** 1989 Nov; 18(11):1146–50

College students' use of emergency medical services. McKillip J, et al. **J Am Coll Health** 1990 May;38(6):289–92

A descriptive analysis of emergency visits to an inner city family practice center. Birrer RB, et al. **J Community Health** 1989 Winter;14(4):197–204

Pediatric deaths and emergency medical services (EMS) in urban and rural areas. Gausche M, et al. **Pediatr Emerg Care** 1989 Sep;5(3):158–62

[The use of services of the physician–on–call by chronic morphine users] Schmidt VM. **Ugeskr Laeger** 1990 Aug 27;152(35):2482–5 (Eng. Abstr.) (Dan)

[Accessibility of medical services reachable by telephone. The example of the 100 service of Brussels] Labruyère JP. **Arch Belg** 1989;47(1–4):138–41 (Eng. Abstr.) (Fre)

[Intravenous thrombolysis with tissue plasminogen activator (rt–PA) at the prehospital phase of acute myocardial infarction. Apropos of 49 cases] Cazaux P, et al. **Arch Mal Coeur** 1989 Dec;82(12):1967–71 (23 ref.) (Eng. Abstr.) (Fre)

[Prehospital thrombolysis. Evaluation of preliminary experiences at Val–de–Marne] Dubois–Randé JL, et al. **Arch Mal Coeur** 1989 Dec;82(12):1963–6 (Eng. Abstr.) (Fre)

[Effect of environmental factors on the number of demands on emergency medical services in respiratory and cardiovascular diseases] Marcinkowski JT, et al. **Z Gesamte Hyg** 1990 Mar;36(3):178–9 (Eng. Abstr.) (Ger)

[Emergency medical services in a city. 1 year's data from a physician in Oslo] Rytter EC. **Tidsskr Nor Laegeforen** 1989 Sep 10;109(25):2539–43 (Eng. Abstr.) (Nor)

[Geriatric emergencies versus adult emergencies: retrospective analysis of medical emergencies at a general hospital] Rodríguez Artalejo F, et al. **Med Clin (Barc)** 1989 Oct 14;93(11):411–4 (Eng. Abstr.) (Spa)

EMERGENCY MEDICAL TAGS see under **EQUIPMENT AND SUPPLIES**

EMERGENCY MEDICAL TECHNICIANS see under **ALLIED HEALTH PERSONNEL**

EMERGENCY MEDICINE

A career path in emergency and critical care medicine: the time is ripe. Crippen D. **Am J Emerg Med** 1990 Mar; 8(2):162–4

Emergency department sonography by emergency physicians. Jehle D, et al. **Am J Emerg Med** 1989 Nov; 7(6):605–11

The role of the emergency physician in the care of children. American College of Emergency Physicians. Pediatric Emergency Medicine Committee. **Ann Emerg Med** 1990 Apr;19(4):435–6

Abstracts of the 3rd International Conference on Emergency Medicine. Toronto, Ontario, Canada, June 24–29. **Ann Emerg Med** 1990 May;19(5):605–11

Measures to deal with emergency department overcrowding. American College of Emergency Physicians. **Ann Emerg Med** 1990 Aug;19(8):944–5

Medical staff responsibilities for emergency department patients requiring urgent medical attention. American College of Emergency Physicians. **Ann Emerg Med** 1990 May;19(5):598

Abstracts of the 20th annual meeting of the Society for Academic Emergency Medicine. Minneapolis, May 21–24. **Ann Emerg Med** 1990 Apr;19(4):447–96

Writing admission orders. American College of Emergency Physicians. **Ann Emerg Med** 1990 May;19(5):599

Two views on COBRA [letter; comment] Burney RE, et al. **Ann Emerg Med** 1989 Oct;18(10):1135–6 Comment on: Ann Emerg Med 1988 Aug;17(8):835–7.

Abuse and neglect of the elderly: are emergency department personnel aware of mandatory reporting laws? Clark–Daniels CL, et al. **Ann Emerg Med** 1990 Sep; 19(9):970–7

An emergency medicine society [letter] Cook RT Jr, et al. **Ann Emerg Med** 1990 Jan;19(1):106

The role of the emergency physician in providing pediatric emergency care—a membership survey. Eitzen E Jr, et al. **Ann Emerg Med** 1990 May;19(5):532–5

The role of the emergency physician in the management of Jehovah's Witnesses. Fontanarosa PB, et al. **Ann Emerg Med** 1989 Oct;18(10):1089–95

Clinically significant radiograph misinterpretations at an emergency medicine residency program. Gratton MC, et al. **Ann Emerg Med** 1990 May;19(5):497–502

"My patient": striving for a distinctive medical ethic [editorial] Iserson KV. **Ann Emerg Med** 1989 Oct; 18(10):1127–8

SARA (Superfund Amendments and Reauthorization Act), Title III: implications for emergency physicians. Leonard RB, et al. **Ann Emerg Med** 1989 Nov;18(11):1212–6

Sequential clinical trials in emergency medicine. Lewis RJ, et al. **Ann Emerg Med** 1990 Sep;19(9):1047–53

Attaining academic department status for emergency medicine within medical schools. Ling LJ. **Ann Emerg Med** 1990 Jul;19(7):793–6

Applications of magnetic resonance imaging and three–dimensional computed tomography in emergency medicine. Mirvis SE. **Ann Emerg Med** 1989 Dec; 18(12):1315–21 (15 ref.)

Informed consent: an unresolved issue [letter] Runge JW. **Ann Emerg Med** 1990 Jul;19(7):841

Litigation against the emergency physician: common features in cases of missed myocardial infarction. Rusnak RA, et al. **Ann Emerg Med** 1989 Oct;18(10):1029–34

Too stressed–out to care? [editorial; comment] Taliaferro E. **Ann Emerg Med** 1989 Nov;18(11):1248–9 Comment on: Ann Emerg Med 1989 Nov;18(11):1157–61.

Physician exposure to ionizing radiation during trauma resuscitation: a prospective clinical study. Weiss EL, et al. **Ann Emerg Med** 1990 Feb;19(2):134–8

Factors associated with stress among emergency medicine residents [see comments] Whitley TW, et al. **Ann Emerg Med** 1989 Nov;18(11):1157–61 Comment in: Ann Emerg Med 1989 Nov;18(11):1248–9.

Ethical issues in geriatric emergency medicine. Adams J, et al. **Emerg Med Clin North Am** 1990 May;8(2):183–92 (30 ref.)

Occupational considerations for the prehospital care provider. Fontanarosa PB. **Emerg Med Clin North Am** 1990 Feb;8(1):119–33 (57 ref.)

Imaging considerations in the geriatric emergency department patient. Loberant N, et al. **Emerg Med Clin North Am** 1990 May;8(2):361–97 (158 ref.)

Controversies in prehospital care. McSwain NE Jr. **Emerg Med Clin North Am** 1990 Feb;8(1):145–54

Academic excellence. Edlich RF. **J Emerg Med** 1990 May–Jun;8(3):341–2

The common world of emergency medicine [editorial; comment] Franaszek J. **J Emerg Med** 1989 Sep–Oct; 7(5):527 Comment on: J Emerg Med 1989 Sep–Oct;7(5):485–9.

The history of trauma: the University of Louisville experience. Miller FB, et al. **J Ky Med Assoc** 1990 May; 88(5):240–5

[Acute prehospital treatment] Sørensen MB. **Ugeskr Laeger** 1990 Jun 25;152(26):1881 (Dan)

[Computers in emergency medicine] Aguglia F, et al. **Medicina (Firenze)** 1990 Jan–Mar;10(1):53–8 (Eng. Abstr.) (Ita)

ECONOMICS

Preventability of malpractice claims in emergency medicine: a closed claims study [see comments] Karcz A, et al. **Ann Emerg Med** 1990 Aug;19(8):865–73 Comment in: Ann Emerg Med 1990 Aug;19(8):943.

Critical–care medicine and the acute–care laboratory. Hall JR. **Clin Chem** 1990 Aug;36(8 Pt 2):1552–6

EDUCATION

An assessment of an oral examination format for evaluating clinical competence in emergency medicine. Solomon DJ, et al. **Acad Med** 1990 Sep;65(9 Suppl):S43–4

A practical method of teaching emergency intraosseous infusions [letter] Walter GP, et al. **Am J Emerg Med** 1990 May;8(3):272–3

The future of critical care medicine within emergency medicine. American College of Emergency Physicians. **Ann Emerg Med** 1990 Jul;19(7):832–5

24–hour coverage in academic emergency medicine: ways of dealing with the issue. Binder LS, et al. **Ann Emerg Med** 1990 Apr;19(4):430–4

Emergency medicine education and the HIV epidemic [editorial] Binder LS. **Ann Emerg Med** 1990 Jul;19(7):830–1

The education of the emergency physician. Clawson DK. **Ann Emerg Med** 1989 Nov;18(11):1244–6

Analyzing clinical case distributions to improve an emergency medicine clerkship. De Lorenzo RA, et al. **Ann Emerg Med** 1990 Jul;19(7):746–51

Ethics emergent [editorial; comment] Derse AR. **Ann Emerg Med** 1990 Feb;19(2):210–2 Comment on: Ann Emerg Med 1990 Feb;19(2):187–92.

Residency training: the missing curriculum [editorial] Frumkin K. **Ann Emerg Med** 1990 Jan;19(1):95–6

A short course on motor vehicle injury for emergency medicine residents. Holden JA, et al. **Ann Emerg Med** 1990 Jan;19(1):68–71

An applicant's evaluation of an emergency medicine internship and residency. Koscove EM. **Ann Emerg Med** 1990 Jul;19(7):774–80

Computerized tracking of emergency medicine resident clinical experience. Langdorf MI, et al. **Ann Emerg Med** 1990 Jul;19(7):764–73

Injury management and the emergency physician [editorial] Martinez R. **Ann Emerg Med** 1990 Jan;19(1):97

An ethics curriculum for teaching emergency medicine residents [see comments] Moskop JC, et al. **Ann Emerg Med** 1990 Feb;19(2):187–92 Comment in: Ann Emerg Med 1990 Feb;19(2):210–2.

Models for teaching emergency medicine skills. Nelson MS. **Ann Emerg Med** 1990 Mar;19(3):333–5

A 60–hour work week [letter] Olson DW, et al. **Ann Emerg Med** 1989 Oct;18(10):1134

A microcomputer application curriculum for emergency medicine residents using computer–assisted instruction. Overton DT. **Ann Emerg Med** 1990 May;19(5):584–6

Substance abuse education in residency training programs in emergency medicine. NIAAA Task Force of the American College of Emergency Physicians. Taliaferro EH, et al. **Ann Emerg Med** 1989 Dec;18(12):1344–7

The need for coding systems to evaluate emergency medicine residency programs [editorial] Tintinalli JE. **Ann Emerg Med** 1990 Jul;19(7):827–8

Anaesthetics: a year out [letter] Wilson P. **Arch Emerg Med** 1989 Dec;6(4):285

Training in accident and emergency [letter; comment] **BMJ** 1990 Mar 10;300(6725):680–1 Comment on: BMJ 1990 Jan 20;300(6718):165–6.

Training in accident and emergency: views of senior house officers [see comments] Morris F, et al. **BMJ** 1990 Jan 20;300(6718):165–6 Comment in: BMJ 1990 Mar 10;300(6725):680–1.

Augmenting the critical care data base of junior medical students with an emergency medicine lecture curriculum: a controlled study. Binder L, et al. **J Emerg Med** 1990 Mar–Apr;8(2):211–4

Objectives to direct the training of emergency medicine residents in off–service rotations: plastic surgery. Chapman J, et al. **J Emerg Med** 1990 May–Jun;8(3):353–6

Objectives to direct the training of emergency medicine residents on off–service rotations: orthopedics. Chapman J, et al. **J Emerg Med** 1990 Mar–Apr;8(2):215–23

Objectives to direct the training of emergency medicine residents on off–service rotations. Hamilton GC, et al. **J Emerg Med** 1989 Sep–Oct;7(5):535–45

Animal procedure laboratory surveys: use of the animal laboratory to improve physician confidence and ability. Olshaker JS, et al. **J Emerg Med** 1989 Nov–Dec;7(6):593–7

Late night thoughts on listening to myself taking the oral boards in emergency medicine [see comments] Ratzan RM. **J Emerg Med** 1989 Sep–Oct;7(5):521–4 Comment in: J Emerg Med 1989 Sep–Oct;7(5):531–2.

Emergency medicine board examination [editorial; comment] Rosen P. **J Emerg Med** 1989 Sep–Oct;7(5):531–2 Comment on: J Emerg Med 1989 Sep–Oct;7(5):521–4.

Objectives to direct the training of emergency medicine residents in off–service rotations: dental emergencies. Schlesinger J, et al. **J Emerg Med** 1990 Jan–Feb;8(1):93–6

The staple. Sklar DP. **J Emerg Med** 1990 May–Jun;8(3):347–8

A new course for emergency physicians [letter] Zukin D. **J Emerg Med** 1989 Jul–Aug;7(4):413–4

Emergency nursing: the ideal clinical elective. Noll ML, et al. **J Nurs Educ** 1990 May;29(5):236–8

Advanced trauma life support courses [editorial] Myers RA. **J R Soc Med** 1990 May;83(5):281–2

Postgraduate trauma education; the surgeon; the cost. Roye WP Jr, et al. **J Trauma** 1989 Nov;29(11):1471–5

The effect of clerkship site on medical student examination grades. Puryear DA, et al. **Med Educ** 1990 May; 24(3):239–42

Guidelines for combined training in emergency medicine and

pediatrics leading to credentialing for ABEM and ABP examinations. **Pediatr Emerg Care** 1990 Jun;6(2):81–3
[Testing student knowledge of emergency care at the Charles University School of General Medicine and the processing of certain conditions in primary emergency care into computerized educational training models] Souček P, et al. **Cesk Zdrav** 1990 Jan;38(1):24–9 (Eng. Abstr.) (Cze)
[Primary emergency care in undergraduate education] Vrbová H. **Cesk Zdrav** 1990 Mar;38(3):115–9 (Eng. Abstr.) (Cze)
[Ambulance services for patients with acute cardiac conditions in Denmark—current state] Lybecker H, et al. **Ugeskr Laeger** 1990 Jun 25;152(26):1892–5 (Eng. Abstr.) (Dan)
[Transportation of patients in the prehospital phase: education of physicians] Moeschler O, et al. **Schweiz Med Wochenschr** 1990 Feb 10;120(6):178–83 (Eng. Abstr.) (Fre)
[Instruction and training in emergency care procedures of recently deceased patients] Brattebø G, et al. **Tidsskr Nor Laegeforen** 1990 Apr 30;110(11):1380–1 (Eng. Abstr.) (Nor)
[Does Sweden need the American specialist emergency physician?] Persson BM, et al. **Lakartidningen** 1989 Sep 27;86(39):3247–8 (Swe)

HISTORY

[Resuscitation and emergency medicine. A historical perspective] Ahnefeld FW. **Cah Anesthesiol** 1989 Dec; 37(8):571–6 (Fre)
[25 years of "Anästhesie, Intensivtherapie, Notfallmedizin" (editorial)] Just OH. **Anasth Intensivther Notfallmed** 1990 Jan;25 Suppl 1:1–2 (Ger)

INSTRUMENTATION

Emergency physician's needle holder. Abidin MR, et al. **J Emerg Med** 1989 Nov–Dec;7(6):581–5
Emergency medicine magnifying loupes. Doctor A, et al. **J Emerg Med** 1989 Jul–Aug;7(4):321–7
A clinical evaluation of the QBCII centrifugal hematology analyzer in the emergency department [see comments] Spivey WH, et al. **J Emerg Med** 1989 Jul–Aug;7(4):329–33 Comment in: J Emerg Med 1989 Jul–Aug;7(4):401–2.
[Basic equipment for the medical emergency bag] Sefrin P. **Fortschr Med** 1990 May 10;108(14):280–1 (Ger)

LEGISLATION & JURISPRUDENCE

Advance directives in emergency medicine: medical, legal, and ethical implications. Siner DA. **Ann Emerg Med** 1989 Dec;18(12):1364–9

MANPOWER

Manpower needs in academic emergency medicine. Gallery ME, et al. **Ann Emerg Med** 1990 Jul;19(7):797–801
Emergency medicine faculty shortage—the medical school perspective [editorial] Sanders AB. **Ann Emerg Med** 1990 Jul;19(7):826–7

METHODS

End-tidal CO2 detection [letter] Graff L. **Ann Emerg Med** 1990 Feb;19(2):219
Ketamine sedation for pediatric procedures: Part 2, Review and implications. Green SM, et al. **Ann Emerg Med** 1990 Sep;19(9):1033–46 (232 ref.)
Ketamine sedation for pediatric procedures: Part 1, A prospective series. Green SM, et al. **Ann Emerg Med** 1990 Sep;19(9):1024–32
Mnemonic [corrected] for diagnosis of acute mental status change [letter] [published erratum appears in Ann Emerg Med 1990 Jun;19(6):735] Roberts JR, et al. **Ann Emerg Med** 1990 Feb;19(2):221–2
Emergency physicians' responses to families following patient death. Schmidt TA, et al. **Ann Emerg Med** 1990 Feb; 19(2):125–8
Analgesic use in the emergency department. Selbst SM, et al. **Ann Emerg Med** 1990 Sep;19(9):1010–3
The emergency medicine specialist in combat triage: a new and untapped resource [editorial] Walsh DP, et al. **Milit Med** 1990 Apr;155(4):187–9

ORGANIZATION & ADMINISTRATION

A visit to the Soviet Union. Vosk A. **Pa Med** 1990 Feb; 93(2):36–8

STANDARDS

Update on medical control in EMS service [letter] Ramzy AI. **Md Med J** 1990 May;39(5):479
The impact of dedicated physician staffing on patient flow and quality assurance parameters in an Air Force emergency department. Howell JM, et al. **Milit Med** 1990 Jan;155(1):30–3
[The qualifications of the emergency physician] Schuster HP. **Dtsch Med Wochenschr** 1989 Oct 6;114(40):1544–5 (Ger)

TRENDS

The elderly and emergency medicine [editorial] Eliastam M. **Am J Emerg Med** 1990 May;8(3):270–1
Emergency physicians: from nomadic times to present [letter] Sobel RM. **Am J Emerg Med** 1989 Nov;7(6):666–7
Emergency medicine: winning the revolution! Anzinger RK. **Ann Emerg Med** 1990 Jan;19(1):90–4
Toxicology in the 1990s [editorial] Kulig KW. **Ann Emerg Med** 1990 Jun;19(6):623
The past & future of academic emergency medicine [letter; comment] Schwab RA. **Ann Emerg Med** 1990 May; 19(5):612–3 Comment on: Ann Emerg Med 1989 Aug;18(8):896–7.
Medical toxicology and emergency medicine [editorial] Vance MV. **Ann Emerg Med** 1990 Jun;19(6):623–4
Emergency medicine. Hedges JR. **JAMA** 1990 May 16; 263(19):2637–8
Pediatric emergency medicine on the move [comment] Fleisher G. **Pediatr Emerg Care** 1990 Mar;6(1):67 Comment on: Pediatr Emerg Care 1990 Mar;6(1):1–3.
[Emergency medicine—at the limits of feasibility?] Röse W. **Anaesthesiol Reanim** 1989;14(6):315–20 (Eng. Abstr.) (Ger)

EMERGENCY MOBILE UNITS see **AMBULANCES**

EMERGENCY OUTPATIENT UNIT see **EMERGENCY SERVICE, HOSPITAL**

EMERGENCY SERVICE, HOSPITAL

Morbidity trends at the children's emergency room, University College Hospital, Ibadan, Nigeria. Bamgboye EA, et al. **Afr J Med Med Sci** 1990 Mar;19(1):49–56
Mortality pattern at a children's emergency ward, University College Hospital, Ibadan, Nigeria. Bamgboye EA, et al. **Afr J Med Med Sci** 1990 Jun;19(2):127–32
The impact of alcohol on the acute hospital service: patient presentation, admission and the perception of alcohol use in such groups. Robertson CE, et al. **Alcohol Alcohol** 1989; 24(5):405–8
Emergency health impact of a severe storm. Geehr EC, et al. **Am J Emerg Med** 1989 Nov;7(6):598–604
Is emergency department resuscitation of out-of-hospital cardiac arrest victims who arrive pulseless worthwhile? [published erratum appears in Am J Emerg Med 1990 Jul;8(4):371] Lewis LM, et al. **Am J Emerg Med** 1990 Mar; 8(2):118–20
Role of the emergency department in decreasing the time to thrombolytic therapy in acute myocardial infarction. Ornato JP. **Am J Hosp Pharm** 1990 Sep;47(9 Suppl 2):S11–4 (15 ref.)
Violence in the emergency department. Kurlowicz LH. **Am J Nurs** 1990 Sep;90(9):34–9
Plane crash. Petersen R, et al. **Am J Nurs** 1989 Oct; 89(10):1288–9
The lady and the parakeet. Stryker RG. **Am J Nurs** 1990 Apr;90(4):170
Writing admission orders. American College of Emergency Physicians. **Ann Emerg Med** 1990 May;19(5):599
Providing telephone advice from the emergency department. American College of Emergency Physicians. **Ann Emerg Med** 1990 May;19(5):600
Emergency department management of patients with automatic implantable cardioverter-defibrillators. Craig SA, et al. **Ann Emerg Med** 1990 Apr;19(4):421–4
A comparison of wound irrigation solutions used in the emergency department. Dire DJ, et al. **Ann Emerg Med** 1990 Jun;19(6):704–8
Anesthetics in the ED [letter] Eckhardt WF. **Ann Emerg Med** 1990 Jul;19(7):839–40
Determining the possibility of pregnancy [letter; comment] Haller P. **Ann Emerg Med** 1989 Oct;18(10):1134–5 Comment on: Ann Emerg Med 1989 Jan;18(1):48–50.
AIDS education in the emergency department. Magid D, et al. **Ann Emerg Med** 1990 Jul;19(7):758–63
Auditing emergency department return visits [letter] Mariani PJ. **Ann Emerg Med** 1990 Aug;19(8):952
Fiberoptic intubation in the emergency department. Mlinek EJ Jr, et al. **Ann Emerg Med** 1990 Apr;19(4):359–62
Managed care plans & denial of care [letter] Morgan MT. **Ann Emerg Med** 1990 Jul;19(7):843
Analysis of return visits [letter; comment] Ovens H, et al. **Ann Emerg Med** 1990 Mar;19(3):339 Comment on: Ann Emerg Med 1989 Sep;18(9):964–8.
Arterial access in the pediatric emergency department. Saladino R, et al. **Ann Emerg Med** 1990 Apr;19(4):382–5
A prospective study of hand-held Doppler ultrasonography by emergency physicians in the evaluation of suspected deep-vein thrombosis. Turnbull TL, et al. **Ann Emerg Med** 1990 Jun;19(6):691–5
Utility of laboratory studies in the emergency department patient with a new-onset seizure. Turnbull TL, et al. **Ann Emerg Med** 1990 Apr;19(4):373–7
The emergency department treatment of dyspepsia with antacids and oral lidocaine. Welling LR, et al. **Ann Emerg Med** 1990 Jul;19(7):785–8
Potential adverse drug interactions in the emergency room. An issue in the quality of care. Beers MH, et al. **Ann Intern Med** 1990 Jan 1;112(1):61–4
Driving-impaired patients leaving the emergency department. The problem of inadequate instructions. Simel DL, et al. **Ann Intern Med** 1990 Mar 1;112(5):365–70
Primary dislocation of the shoulder in a snooker player [letter] Mabrook AF. **Arch Emerg Med** 1989 Sep;6(3):234–5
Anaesthetic breathing systems in the accident and emergency department. McNeill MJ, et al. **Arch Emerg Med** 1990 Jun; 7(2):78–80
Stab wound of the neck: potential pitfalls in management. Page RD, et al. **Arch Emerg Med** 1989 Sep;6(3):225–9
Comparison of intramuscular glucagon and intravenous dextrose in the treatment of hypoglycaemic coma in an accident and emergency department. Patrick AW, et al. **Arch Emerg Med** 1990 Jun;7(2):73–7
Violence in a community emergency room. Wasserberger J, et al. **Arch Emerg Med** 1989 Dec;6(4):266–9
In defence of casualty departments [letter] Forster P. **Aust Fam Physician** 1990 Aug;19(8):1301–2
Biggest is not always best. Perlstein PN. **Aust Fam Physician** 1990 Mar;19(3):409, 411
Radioactive substances decontamination exercise. Heaton B, et al. **BMJ** 1990 Apr 28;300(6732):1121–2
Closed head injuries: where does delay occur in the process of transfer to neurosurgical care? Marsh H, et al. **Br J Neurosurg** 1989;3(1):13–9
Acute asthma: emergency department management and prospective evaluation of outcome [letter; comment] **Can Med Assoc J** 1990 Jun 1;142(11):1183, 1186–7 Comment on: Can Med Assoc J 1990 Mar 15;142(6):591–5.
The application of clinical guidelines for skull radiography in the Accident and Emergency department: theory and practice. Clarke JA, et al. **Clin Radiol** 1990 Mar;41(3):152–5
Improving accident and emergency radiology. Fielding JA. **Clin Radiol** 1990 Mar;41(3):149–51 (31 ref.)
Prediction of alcohol-related casualties: a comparison of two emergency room populations. Cherpitel CJ. **Drug Alcohol Depend** 1989 Dec;24(3):195–203
Laboratory values in the elderly. Are they different? Kelso T. **Emerg Med Clin North Am** 1990 May;8(2):241–54 (21 ref.)
Social emergencies in the elderly. McDonald AJ, et al. **Emerg Med Clin North Am** 1990 May;8(2):443–59 (30 ref.)
Emergency room management of congestive heart failure. Dunbar LM. **Hosp Pract [Off]** 1990 Jan;25 Suppl 1:7–14; discussion 30–1 (11 ref.)
Multicenter HIV and hepatitis B seroprevalence study. Jui J, et al. **J Emerg Med** 1990 May–Jun;8(3):243–51
In response to Dr. Ratzan [letter; comment] Koscove E, et al. **J Emerg Med** 1989 Jul–Aug;7(4):410–1 Comment on: J Emerg Med 1988 Sep–Oct;6(5):451–4.
A clinical evaluation of the QBCII centrifugal hematology analyzer in the emergency department [see comments] Spivey WH, et al. **J Emerg Med** 1989 Jul–Aug;7(4):329–33 Comment in: J Emerg Med 1989 Jul–Aug;7(4):401–2.
Clinical usage of the leukocyte count in emergency room decision making. Badgett RG, et al. **J Gen Intern Med** 1990 May–Jun;5(3):198–202
Detecting acute cardiac ischemia in the emergency department: a review of the literature. McCarthy BD, et al. **J Gen Intern Med** 1990 Jul–Aug;5(4):365–73 (79 ref.)
Phencyclidine intoxication: a case report. Milhorn HT Jr. **J Miss State Med Assoc** 1990 Feb;31(2):37–40
Peritonsillar abscess: the treatment options. Hall SF. **J Otolaryngol** 1990 Jun;19(3):226–9
Emergency room arteriography: a useful technique in the assessment of peripheral vascular injuries. MacFarlane C, et al. **J R Coll Surg Edinb** 1989 Dec;34(6):310–3
Trauma patients in an Indian hospital. Dhingra N, et al. **J R Soc Health** 1990 Apr;110(2):67–9
Emergency transport of AS-1 red cell units by pneumatic tube system. Hardin G, et al. **J Trauma** 1990 Mar; 30(3):346–8
Emergency use of intraosseous infusions. Dye JD. **Kans Med** 1989 Oct;90(10):284–5
Intern performance with simulated patients in a casualty department [letter; comment] Walpole BG. **Med J Aust** 1989 Nov 6;151(9):544 Comment on: Med J Aust 1989 Jul 3;151(1):18–21.
Omitted AIDS care, precautions [news] **Minn Med** 1990 Aug; 73(8):54
Management of asthma in a hospital emergency department [letter; comment] Nair SK. **N Z Med J** 1989 Dec 13; 102(881):647 Comment on: N Z Med J 1989 Oct 25;102(878):547–9.
Emergency department nursing management of patients with orthopedic fractures resulting from motor vehicle accidents. Herron DG, et al. **Nurs Clin North Am** 1990 Mar;25(1):71–83
Screening for cervical cancer in emergency centers and sexually transmitted disease clinics. Marcus AC, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):453–5
Emergency department record. Rosenberg NM. **Pediatr Emerg Care** 1989 Sep;5(3):204
Pain management in the pediatric emergency department [letter; comment] Rothrock SG, et al. **Pediatr Emerg Care** 1989 Dec;5(4):298 Comment on: Pediatr Emerg Care 1989 Mar;5(1):56–63.
Latex agglutination for the rapid diagnosis of streptococcal pharyngitis: use by house staff in a pediatric emergency service. Tunik MG, et al. **Pediatr Emerg Care** 1990 Jun; 6(2):93–5
Emergency management of the child with asthma [published erratum appears in Pediatr Pulmonol 1990;8(3):219–20] Rubin BK, et al. **Pediatr Pulmonol** 1990;8(1):45–57 (150 ref.)
Parental presence in the emergency department [letter; comment] Connolly NK. **Pediatrics** 1990 Apr;85(4):626 Comment on: Pediatrics 1989 Nov;84(5):907–9.
A farewell to call. Fine BD Jr. **Postgrad Med** 1990 Feb 1;

87(2):105–6
Hospital bed cuts and GP referrals. **Practitioner** 1990 Mar 8;234(1484):205
Health care utilization after referral from a hospital emergency department. Hansagi H, et al. **Scand J Soc Med** 1989;17(4):291–9
A new look at qualitative toxicology spot tests in the emergency department. Sangalli BC. **Vet Hum Toxicol** 1989 Oct;31(5):445–8 (20 ref.)
[A report on hospital emergency services] Lareng L. **Cah Anesthesiol** 1989 Sep;37(5):371–84 (Fre)
["Genetic emergencies" in a pediatric intensive care service] Odent S, et al. **J Genet Hum** 1989 Dec;37(4–5):311–4 (Eng. Abstr.) (Fre)
[The hypoglycemic reactions in diabetic patients in the emergency room. Which patients are going to be hospitalized?] Natangelo R, et al. **Minerva Med** 1990 Jul–Aug;81(7–8):561–5 (Eng. Abstr.) (Ita)
[Hemosorption service in a clinic] Kirkovskiĭ VV, et al. **Sov Zdravookhr** 1990;(5):46–7 (Eng. Abstr.) (Rus)
[Occult bacteremia at a pediatric emergency clinic] Gómez Papi A. **An Esp Pediatr** 1990 Feb;32(2):136–8 (Eng. Abstr.) (Spa)

ECONOMICS

Screening hospital admissions from the emergency department for occult carbon monoxide poisoning. Heckerling PS, et al. **Am J Emerg Med** 1990 Jul;8(4):301–4
Costs related to ER use [letter; comment] Birnbaum PS. **Am J Public Health** 1989 Dec;79(12):1680–1 Comment on: Am J Public Health 1989 Jul;79(7):843–6.
A costly visit [letter] Reeves JE. **Postgrad Med** 1989 Dec; 86(8):47

LEGISLATION & JURISPRUDENCE

Must a Catholic hospital inform a rape victim of the availability of the "morning-after pill"? Brushwood DB. **Am J Hosp Pharm** 1990 Feb;47(2):395–6
Telephone orders in the emergency department. American College of Emergency Physicians. **Ann Emerg Med** 1990 May;19(5):601–2
COBRA's anti-dumping provisions: fertile ground for hospital and physician liability. Dunbar DC. **J Miss State Med Assoc** 1990 Mar;31(3):79–83
New patient transfer laws take effect July 1. Wilcox DP, et al. **Tex Med** 1990 Jul;86(7):52–60
[The compensation of outpatient emergency management by chief physicians] Rieger HJ. **Dtsch Med Wochenschr** 1990 Jul 6;115(27):1073–5 (Ger)

MANPOWER

Formula for emergency physician staffing. Graff LG, et al. **Am J Emerg Med** 1990 May;8(3):194–9
Physician assistants in emergency medicine. Sturmann KM, et al. **Ann Emerg Med** 1990 Mar;19(3):304–8 (19 ref.)
Staff fails to take AIDS precautions. **AORN J** 1989 Nov; 50(5):1055
Nurse practitioners in the accident and emergency department. James MR, et al. **Arch Emerg Med** 1989 Dec; 6(4):241–6
Hours of surgery [letter] [published erratum appears in Br Dent J 1990 Mar 24;168(6):231] Wood GD. **Br Dent J** 1990 Feb 24;168(4):140
Connecticut emergency department physicians survey. Implications for graduate medical education. Salluzzo R, et al. **Conn Med** 1990 Jan;54(1):3–4
Occupational risk for HIV infection [letter; comment] Gough JE, et al. **N C Med J** 1990 May;51(5):246–7 Comment on: N C Med J 1989 Nov;50(11):599–605.
[Psychologic prevention of functional neuropsychologic disorders among medical personnel at emergency medical care units] Barsuchenko AA, et al. **Sov Zdravookhr** 1990; (3):46–8 (Eng. Abstr.) (Rus)
[Does Sweden need the American specialist emergency physician?] Persson BM, et al. **Lakartidningen** 1989 Sep 27;86(39):3247–8 (Swe)

ORGANIZATION & ADMINISTRATION

Humana Hospital Air Ambulance program improves acute care access. Stokes CP. **Alaska Med** 1989 Jul–Dec; 31(4):156–7
Control of observation medicine: emergency medicine versus utilization review? [editorial] Graff L. **Am J Emerg Med** 1989 Nov;7(6):659
A survey of observation units in the United States. Yealy DM, et al. **Am J Emerg Med** 1989 Nov;7(6):576–80
'What colour are your disasters?' [letter] Hodgson RA. **Anaesth Intensive Care** 1990 May;18(2):274
A computerized audit of 15,009 emergency department records. Holbrook J. **Ann Emerg Med** 1990 Feb; 19(2):139–44
Effect of standing orders on field times. Pointer JE, et al. **Ann Emerg Med** 1989 Oct;18(10):1119–21
Gently adjusting open doors [editorial] Carew-McColl M. **Arch Emerg Med** 1990 Jun;7(2):59–60
The impact of the America's Cup on Fremantle Hospital. Galvin GM, et al. **Arch Emerg Med** 1989 Dec;6(4):262–5
Care of the suddenly bereaved. Yates DW, et al. **BMJ** 1990 Jul 7;301(6742):29–31
Transfer centers save lives, minimize bad debt. Johnsson J. **Hospitals** 1990 Mar 20;64(6):64–6
The place of exercises in disaster management. Rutherford WH. **Injury** 1990 Jan;21(1):58–60; discussion 63–4
Accident services re-viewed: a comment on the report of the working party of the Royal College of Surgeons of England on 'The Management of Patients with Major Injuries' [editorial] Tubbs ON. **Injury** 1989 Mar;20(2):63–4
The hospital response to the Hillsborough tragedy. Wardrope J, et al. **Injury** 1990 Jan;21(1):53–4; discussion 55–7
The impact of routine chest radiography on the management of patients admitted from an emergency service. White CS, et al. **Invest Radiol** 1990 Jun;25(6):720–3
Hospital and prehospital resources for optimal care of patients with burn injury: guidelines for development and operation of burn centers. American Burn Association. **J Burn Care Rehabil** 1990 Mar–Apr;11(2):98–104
Use of a mildly restrictive administrative protocol to reduce orders for manual blood film examination from the emergency department. Edelman BB, et al. **J Emerg Med** 1990 Jan–Feb;8(1):1–13
Mayo Clinic's hospital-based emergency air medical transport service [see comments] Farnell MB, et al. **Mayo Clin Proc** 1989 Oct;64(10):1213–25 Comment in: Mayo Clin Proc 1990 Mar;65(3):436.
Pediatric critical care transport survey: team composition and training, mobilization time, and mode of transportation [published erratum appears in Pediatr Emerg Care 1990 Jun;6(2):88] [see comments] McCloskey KA, et al. **Pediatr Emerg Care** 1990 Mar;6(1):1–3 Comment in: Pediatr Emerg Care 1990 Mar;6(1):67.
[Emergency units: the effect of structure on waiting delays] Pourriat JL, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R73 (Fre)
[The rescue station—a multidisciplinary treatment unit in the hospital] Schulz S. **Anaesthesiol Reanim** 1990;15(1):3–8 (Eng. Abstr.) (Ger)
[Care of the injured in Norway] Kristoffersen A. **Tidsskr Nor Laegeforen** 1990 May 20;110(13):1731–2 (Eng. Abstr.) (Nor)
[A unit for the care of acute headache attacks. A new experience in our milieu] Zukerman E, et al. **AMB Rev Assoc Med Bras** 1989 May–Jun;35(3):107–10 (Eng. Abstr.) (Por)
[Organization of medical services for the victims of the earthquake in Armenian SSR] Teriaev VG, et al. **Sov Med** 1989;(10):3–7 (Rus)
[Analysis of the planning of emergency medical services] Mintser OP, et al. **Sov Zdravookhr** 1990;(1):10–4 (Eng. Abstr.) (Rus)

STANDARDS

Oligoanalgesia in the emergency department. Wilson JE, et al. **Am J Emerg Med** 1989 Nov;7(6):620–3
Principles of appropriate patient transfer. **Ann Emerg Med** 1990 Mar;19(3):337–8
Compliance with a standard for the emergency department management of epileptics who present after an uncomplicated convulsion. Baraff LJ, et al. **Ann Emerg Med** 1990 Apr;19(4):367–72
Use of autopsy results in the emergency department quality assurance plan. Burke MC, et al. **Ann Emerg Med** 1990 Apr;19(4):363–6
Refusing care to patients who present to an emergency department. Derlet RW, et al. **Ann Emerg Med** 1990 Mar; 19(3):262–7
Pediatric emergency medicine—current standards of care: results of a national survey. Isaacman DJ. **Ann Emerg Med** 1990 May;19(5):527–31
Human immunodeficiency virus and the emergency department: risks and risk protection for health care providers. Kelen GD. **Ann Emerg Med** 1990 Mar; 19(3):242–8 (69 ref.)
A comparison of implicit and explicit methods of process quality assurance for blunt trauma patients. Schriger DL, et al. **Ann Emerg Med** 1990 Jul;19(7):736–40
Effectiveness of the call-out system for a London Coronary Ambulance service. McLauchlan CA, et al. **Arch Emerg Med** 1989 Sep;6(3):193–8
Electrocardiograph interpretation by junior doctors. Morrison WG, et al. **Arch Emerg Med** 1990 Jun;7(2):108–10
Blood alcohol concentration measurement using a salivary reagent stick: a reliable tool for emergency departments? Phair IC, et al. **Arch Emerg Med** 1990 Jun;7(2):69–72
Deaths from injury [letter] Touquet R. **Arch Emerg Med** 1989 Sep;6(3):230
Utilization review as an objective of quality assurance. Esteban A, et al. **Anst Clin Rev** 1989;9(2):71–4 (0 ref.)
Improving the care of patients with major trauma in the accident and emergency department. Fisher RB, et al. **BMJ** 1990 Jun 16;300(6739):1560–3
Training in accident and emergency: views of senior house officers [see comments] Morris F, et al. **BMJ** 1990 Jan 20;300(6718):165–6 Comment in: BMJ 1990 Mar 10;300(6725):680–1.
One year's experience of major trauma outcome study methodology. Wardrope J, et al. **BMJ** 1990 Jul 21; 301(6744):156–9
Improving the care of patients with major trauma [letter] Yates DW. **BMJ** 1990 Jul 14;301(6743):123
Testing a policy for skull radiography (and admission) following mild head injury. de Lacey G, et al. **Br J Radiol** 1990 Jan;63(745):14–8
Physicians' ranking of hospital attributes [letter; comment] Goding KL. **Health Care Manage Rev** 1990 Spring; 15(2):7–8 Comment on: Health Care Manage Rev 1989 Summer;14(3):77–84.
Missed injuries in an orthopaedic department. Juhl M, et al. **Injury** 1990 Mar;21(2):110–2
Audit of 6 months' activity of a trauma team. Spencer JD, et al. **Injury** 1990 Mar;21(2):68–70
Adherence to Universal (barrier) Precautions during interventions on critically ill and injured emergency department patients. Kelen GD, et al. **J Acquir Immune Defic Syndr** 1990;3(10):987–94
Emergency department stat laboratory: a solution or a problem [editorial; comment] Rosen P, et al. **J Emerg Med** 1989 Jul–Aug;7(4):401–2 Comment on: J Emerg Med 1989 Jul–Aug;7(4):329–33.
Application of clinical indicators in the emergency department. O'Leary MR, et al. **JAMA** 1989 Dec 22–29; 262(24):3444–7
The impact of dedicated physician staffing on patient flow and quality assurance parameters in an Air Force emergency department. Howell JM, et al. **Milit Med** 1990 Jan;155(1):30–3
A study of the management of asthma in a hospital emergency department [see comments] Kwong T, et al. **N Z Med J** 1989 Oct 25;102(878):547–9 Comment in: N Z Med J 1989 Dec 13;102(881):647.
Quality assurance for psychiatric emergencies. An analysis of assessment and feedback methodologies. Sateia MJ, et al. **Psychiatr Clin North Am** 1990 Mar;13(1):35–48
An audit of doctor's management of patients with chest pain in the accident and emergency department. Emerson PA, et al. **Q J Med** 1989 Mar;70(263):213–20
[Experience with computer-assisted documentation at the casualty ward of the surgery clinic in the Suhl district hospital] Recknagel F, et al. **Zentralbl Chir** 1989; 114(15):1019–24 (Eng. Abstr.) (Ger)

STATISTICS & NUMERICAL DATA

Head injuries in accident and emergency departments. How different are children from adults? Brookes M, et al. **J Epidemiol Community Health** 1990 Jun;44(2):147–51
Hospital emergency departments in Mississippi. Bross MH, et al. **J Miss State Med Assoc** 1989 Sep;30(9):287–90

SUPPLY & DISTRIBUTION

[The demand for emergency services at pediatric hospitals: a study of 4,858 cases treated at the emergency department of a pediatric hospital] Gago García C, et al. **An Esp Pediatr** 1990 Feb;32(2):99–104 (34 ref.) (Eng. Abstr.) (Spa)

TRENDS

Measures to deal with emergency department overcrowding. American College of Emergency Physicians. **Ann Emerg Med** 1990 Aug;19(8):944–5

UTILIZATION

Clinical and demographic characteristics of emergency department patients in The Netherlands: a review of the literature and a preliminary study. Kooiman CG, et al. **Am J Emerg Med** 1989 Nov;7(6):632–8 (47 ref.)
Patient 'dumping' post-COBRA. Kellermann AL, et al. **Am J Public Health** 1990 Jul;80(7):864–7
The effect of a patient education program on emergency room use for inner-city children with asthma. Shields MC, et al. **Am J Public Health** 1990 Jan;80(1):36–8
Hospital and emergency department overcrowding. **Ann Emerg Med** 1990 Mar;19(3):336
Prehospital and emergency department delivery: a review of eight years experience. Brunette DD, et al. **Ann Emerg Med** 1989 Oct;18(10):1116–8
Elderly patients in the emergency department [see comments] Eliastam M. **Ann Emerg Med** 1989 Nov;18(11):1222–9 (47 ref.) Comment in: Ann Emerg Med 1989 Nov;18(11):1249–50.
Emergency medicine and the health care needs of the indigent child [editorial] Muller HA. **Ann Emerg Med** 1990 Jan;19(1):98–9
"Bounces": an analysis of short-term return visits to a public hospital emergency department. Pierce JM, et al. **Ann Emerg Med** 1990 Jul;19(7):752–7
Indigent children who are denied care in the emergency department. Shaw KN, et al. **Ann Emerg Med** 1990 Jan; 19(1):59–62
Changes in emergency surgery between 1973 and 1982: audit of the workload of one surgical team. Perry EP, et al. **Ann R Coll Surg Engl** 1989 Nov;71(6):341–3
Accidents in the accident and emergency department [letter] Dukes IK, et al. **Arch Emerg Med** 1990 Jun;7(2):122–4
The 1987 forest fire disaster in California: assessment of emergency room visits. Duclos P, et al. **Arch Environ Health** 1990 Jan–Feb;45(1):53–8
After-hours treatment of anterior dental trauma in Newcastle and western Sydney: a four-year study. Martin IG, et al. **Aust Dent J** 1990 Feb;35(1):27–31
Chief complaint of 3,545 pediatric patients at the emergency room of San Pablo Hospital during a five months period. Mayol PM, et al. **Bol Asoc Med P R** 1989 Nov;81(11):430–2
Accident and emergency attendance rates: variation among

patients from different general practices. McKee CM, et al. **Br J Gen Pract** 1990 Apr;40(333):150–3
Psychiatric morbidity in an accident and emergency department. Characteristics of patients at presentation and one month follow-up. Salkovskis PM, et al. **Br J Psychiatry** 1990 Apr;156:483–7
General hospital admission in the management of parasuicide. A randomised controlled trial. Waterhouse J, et al. **Br J Psychiatry** 1990 Feb;156:236–42
A three-year report of the medical helicopter transportation system of Connecticut. Jacobs LM, et al. **Conn Med** 1989 Dec;53(12):703–10
Ambulatory Track: on the right track. Hodges SR. **Dimens Health Serv** 1990 May;67(4):21–3
Outpatient and emergency care center of '89 action. Koska MT. **Hospitals** 1989 Dec 20;63(24):57
Prediction of alcohol-related casualties among emergency room admissions. Cherpitel CJ. **Int J Addict** 1989 Aug; 24(8):725–37
Short-term outcomes of elderly patients discharged from an emergency department. Denman SJ, et al. **J Am Geriatr Soc** 1989 Oct;37(10):937–43
Emergency room use by patients from the family practice of a black physician. Yarboro TL. **J Natl Med Assoc** 1990 Feb;82(2):93–7
Frequency of emergency department attendances as a predictor of mortality: nine-year follow-up of a population-based cohort. Hansagi H, et al. **J Public Health Med** 1990 Feb;12(1):39–44
The general practitioner's use and expectations of an accident and emergency department. Morrison WG, et al. **J R Soc Med** 1990 Apr;83(4):237–40
Case-mix classification for emergency departments. Cameron JM, et al. **Med Care** 1990 Feb;28(2):146–58
Nonemergency visits to hospital emergency rooms: a comparison of blacks and whites. White-Means SI, et al. **Milbank Q** 1989;67(1):35–57
Accident and emergency abusers. Foroughi D, et al. **Practitioner** 1989 May 8;233(1468):657–9
Socio-spatial perspectives on the utilization of emergency hospital services in two urban territories in Quebec. Béland F, et al. **Soc Sci Med** 1990;30(1):53–66
Characteristics of 167 consecutive traffic accident victims with special reference to alcohol intoxication: a prospective emergency room study. Wyss D, et al. **Soz Praventivmed** 1990;35(3):108–16
Accident and emergency department attendance by asthmatic children. O'Halloran SM, et al. **Thorax** 1989 Sep; 44(9):700–5
Recurrent accident and emergency department attendance for acute asthma in children. O'Halloran SM, et al. **Thorax** 1989 Aug;44(8):620–6
Impact of community violence on the workload of a district general hospital. Hinds G, et al. **Ulster Med J** 1990 Apr; 59(1):71–6
[Referrals to the surgical emergency room] Kashtan H, et al. **Harefuah** 1989 Dec 1;117(11):356–8 (Eng. Abstr.) **(Heb)**
[Demand for care in the emergency service department of a pediatric hospital] Sánchez Bayle M, et al. **An Esp Pediatr** 1989 Aug;31(2):127–33 (Eng. Abstr.) **(Spa)**
[Emergencies in otorhinolaryngology: etiologic study] Cuchí Broquetas A. **An Otorrinolaringol Ibero Am** 1989; 16(5):485–504 (Eng. Abstr.) **(Spa)**
[Emergency consultations for abuse of psychoactive substances in Buenos Aires hospitals] Míguez HA, et al. **Bol Of Sanit Panam** 1989 Oct;107(4):296–306 (Eng. Abstr.) **(Spa)**
[Utilization of hospital emergency services in Andalusia (letter)] Sanz Carreras F. **Gac Sanit** 1989 Jul–Aug;3(13):484 **(Spa)**
[Trauma and poisoning as causes of the demand for emergency services] Hijar-Medina M, et al. **Salud Publica Mex** 1989 Jul–Aug;31(4):447–68 (Eng. Abstr.) **(Spa)**
[The emergency department—for whom?] Bröte L, et al. **Lakartidningen** 1990 Aug 8;87(32–33):2493 **(Swe)**

EMERGENCY SERVICES, PSYCHIATRIC

see related
HOTLINES

Sexual abuse histories and sequelae in female psychiatric emergency room patients. Briere J, et al. **Am J Psychiatry** 1989 Dec;146(12):1602–6
Psychiatric emergency service. Implications for the patient, the physician, the family, the hospital, and the community. Atkins RW. **Arch Gen Psychiatry** 1967 Aug;17(2):176–82
Violence and suicide risk assessment in the psychiatric emergency room. Feinstein R, et al. **Compr Psychiatry** 1990 Jul–Aug;31(4):337–43
Psychiatric emergencies in a Nigerian general hospital. Ohaeri JU, et al. **East Afr Med J** 1989 Nov;66(11):769–75
Psychiatric emergencies in the elderly. Greenstein RA, et al. **Emerg Med Clin North Am** 1990 May;8(2):429–41 (18 ref.)
Can prediction of violence among psychiatric inpatients be improved? Blomhoff S, et al. **Hosp Community Psychiatry** 1990 Jul;41(7):771–5
Clinicians' self-reported reactions to psychiatric emergency patients: effect on treatment decisions. Gillig PM, et al. **Psychiatr Q** 1990 Summer;61(2):155–62
Jane and John Doe in the psychiatric emergency service. Parks J, et al. **Psychiatr Q** 1989 Winter;60(4):297–302
[Emergency procedures by the practitioner facing psychiatric emergencies] Gusberti FR. **Rev Med Suisse Romande** 1989 Nov;109(11):969–71 **(Fre)**
[The psychiatric emergency in medicine] Escobar E. **Rev Med Chil** 1988 Sep;116(9):944–51 (39 ref.) (Eng. Abstr.) **(Spa)**

ECONOMICS

CMHC emergency services in the 1980's: effects of funding changes. Scherl EK, et al. **Community Ment Health J** 1989 Winter;25(4):267–75

LEGISLATION & JURISPRUDENCE

[Compulsory hospitalization of psychiatric patients today—a part of emergency management] Körmendy E. **Off Gesundheitswes** 1990 Jun;52(6):273–6 (Eng. Abstr.) **(Ger)**
[Legal functions of psychiatric emergency services in Israel] Levy A. **Harefuah** 1989 May 10;116(10):544–6 (10 ref.) **(Heb)**

ORGANIZATION & ADMINISTRATION

Empirically assessing the impact of mobile crisis capacity on state hospital admissions. Fisher WH, et al. **Community Ment Health J** 1990 Jun;26(3):245–53
[Emergency home psychiatric care and the role of the general physician. Evaluations and hypotheses] Merra S, et al. **Minerva Med** 1990 Mar;81(3 Suppl):131–3 (Eng. Abstr.) **(Ita)**

STANDARDS

Quality assurance for psychiatric emergencies. An analysis of assessment and feedback methodologies. Sateia MJ, et al. **Psychiatr Clin North Am** 1990 Mar;13(1):35–48

STATISTICS & NUMERICAL DATA

Families' experiences in psychiatric emergencies. Morgan SL. **Hosp Community Psychiatry** 1989 Dec;40(12):1265–9

TRENDS

[Emergency services for crisis intervention—8 years' experience of a social psychiatry service in a rural area] Hantschmann J. **Off Gesundheitswes** 1989 Aug–Sep; 51(8–9):533–7 (Eng. Abstr.) **(Ger)**

UTILIZATION

Frequent repeaters in a psychiatric emergency service. Ellison JM, et al. **Hosp Community Psychiatry** 1989 Sep; 40(9):958–60
Whom do mobile crisis services serve? Gillig P, et al. **Hosp Community Psychiatry** 1990 Jul;41(7):804–5
Psychiatric crises: making the most of an emergency room visit. Fisher HL. **J Psychosoc Nurs Ment Health Serv** 1989 Nov;27(11):4–8
Comprehensive psychiatric emergency services. Oldham JM, et al. **Psychiatr Q** 1990 Spring;61(1):57–67
Patients' perceived service needs when seen in a psychiatric emergency room. Solomon P, et al. **Psychiatr Q** 1989 Fall; 60(3):215–26
Prevalence of eating disorders in the psychiatric emergency room. Johnson AS, et al. **Psychosomatics** 1990 Summer; 31(3):337–41
[Changes in the function of a psychiatric department during 1983–1988] Schepelern ES, et al. **Ugeskr Laeger** 1990 Apr 9;152(15):1075–7 (Eng. Abstr.) **(Dan)**
[Emergency psychiatry and crisis intervention in a primary clinic] Greger J, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Apr; 42(4):206–10 (Eng. Abstr.) **(Ger)**
[An epidemiological study of psychiatric emergencies at the Biella Department of Emergencies and Admissions in the 5 years of 1983–1987] Merra S, et al. **Minerva Med** 1990 Mar;81(3 Suppl):139–44 (Eng. Abstr.) **(Ita)**

EMERGICENTERS see **EMERGENCY MEDICAL SERVICES**

EMETICS

RU 24969-induced emesis in the cat: 5-HT1 sites other than 5-HT1A, 5-HT1B or 5-HT1C implicated. Lucot JB. **Eur J Pharmacol** 1990 May 16;180(2–3):193–9
Emetic activity of zacopride in ferrets and its antagonism by pharmacological agents. Sancilio LF, et al. **Eur J Pharmacol** 1990 Jun 8;181(3):303–6

ANTAGONISTS & INHIBITORS

Fluphenazine, ICS 205-930 and dl-fenfluramine differentially antagonise drug-induced emesis in the ferret. Costall B, et al. **Neuropharmacology** 1990 May;29(5):453–62

PHARMACOLOGY

The abdominal visceral innervation and the emetic reflex: pathways, pharmacology, and plasticity. Andrews PL, et al. **Can J Physiol Pharmacol** 1990 Feb;68(2):325–45 (76 ref.)
Animal models in the study of vomiting. King GL. **Can J Physiol Pharmacol** 1990 Feb;68(2):260–8 (116 ref.)

THERAPEUTIC USE

Journal club: gastric emptying in the poisoned patient. Nejman G, et al. **Am J Emerg Med** 1990 May;8(3):265–9

EMETINE

ADVERSE EFFECTS

[Cardiotoxicity of emetine] Marino A, et al. **Clin Ter** 1990 May 15;133(3):131–43 (110 ref.) (Eng. Abstr.) **(Ita)**

ANALOGS & DERIVATIVES

Hepatopulmonary amoebiasis. Efficacy of various treatment regimens containing dehydroemetine and/or metronidazole. Jain NK, et al. **J Assoc Physicians India** 1990 Apr;38(4):269–71

PHARMACOLOGY

Cellular regulation of ADP-ribosylation of proteins. III. Selective augmentation of in vitro ADP-ribosylation of histone H3 in murine thymic cells after in vivo emetine treatment. Sóoki-Tóth A, et al. **Exp Cell Res** 1989 Sep; 184(1):44–52
Differential sensitivity of specific and nonspecific antigen-presentation by B cells to a protein synthesis inhibitor. Kakiuchi T, et al. **J Immunol** 1990 Sep 15; 145(6):1653–8
Giant miniature end-plate potentials at the untreated and emetine-treated frog neuromuscular junction. Alkadhi KA. **J Physiol (Lond)** 1989 May;412:475–91
Emetine-resistant mutants of Entamoeba histolytica overexpress mRNAs for multidrug resistance. Samuelson J, et al. **Mol Biochem Parasitol** 1990 Jan 15;38(2):281–90

EMIGRATION AND IMMIGRATION

Psychiatric care of refugees exposed to organized violence. A comparative study of refugees and immigrants in Frederiksborg County, Denmark. Jensen SB, et al. **Acta Psychiatr Scand** 1989 Aug;80(2):125–31
Does the act of migration provoke psychiatric breakdown? A study of Greek Cypriot immigrants. Mavreas V, et al. **Acta Psychiatr Scand** 1989 Nov;80(5):469–73
Problems, plans, and ambitions of German and foreign adolescents. Malhotra MK. **Adolescence** 1989 Fall; 24(95):741–53
Migration and growth: separation-individuation processes in immigrant students in Israel. Mirsky J, et al. **Adolescence** 1989 Fall;24(95):725–40
Immigrant children: psychiatric disorder, school performance, and service utilization. Munroe-Blum H, et al. **Am J Orthopsychiatry** 1989 Oct;59(4):510–9
The use of sputum cultures in the evaluation of immigrants classified as tuberculosis suspects. Nolan CM, et al. **Am Rev Respir Dis** 1989 Oct;140(4):996–1000
Isonymy in emigrants from Ferrara in 1981–1988. Barrai I, et al. **Ann Hum Biol** 1990 Jan–Feb;17(1):7–18
Biochemical values of immigrant groups in north-east France. Vincent-Viry M, et al. **Ann Hum Biol** 1990 Jul–Aug;17(4):277–87
Problems concerning native and migrant populations, their nutrition, the physical environment, ecology and methodology of research. Nikitin YuP. **Arctic Med Res** 1988;47 Suppl 1:38–9
Cancer pattern among Greenlandic Inuit migrants in Denmark, 1968–82. Prener A, et al. **Arctic Med Res** 1988; 47 Suppl 1:642–4
Changes in food habits and nutritional status of immigrants from Turkey in Sweden. Koctürk-Runefors T. **Bibl Nutr Dieta** 1990;(45):157–64
US visas and 'insanity' [letter] Craddock N, et al. **Br J Psychiatry** 1989 Nov;155:712–3
Suicides among immigrants from the Indian subcontinent. Soni Raleigh V, et al. **Br J Psychiatry** 1990 Jan;156:46–50
Bouffée délirante in Jamaican adolescent siblings. Roberts N. **Can J Psychiatry** 1990 Apr;35(3):251–3
Health profile of applicants for refugee status (admitted into Quebec between August 1985 and April 1986). Thonneau P, et al. **Can J Public Health** 1990 May-Jun;81(3):182–6
The case against HIV antibody testing of refugees and immigrants [letter; comment] **Can Med Assoc J** 1990 May 15;142(10):1037–8 Comment on: Can Med Assoc J 1989 Nov 1;141(9):889–94.
The case against HIV antibody testing of refugees and immigrants [letter; comment] Dunn RW. **Can Med Assoc J** 1990 Feb 15;142(4):281–2 Comment on: Can Med Assoc J 1989 Nov 1;141(9):889–94.
Tranquilizing deportees [letter] Feenan DK. **Can Med Assoc J** 1990 Aug 1;143(3):169–70
The case against HIV antibody testing of refugees and immigrants [letter] Hall PF. **Can Med Assoc J** 1990 Aug 1;143(3):172–3
Tuberculosis surveillance in immigrants to Manitoba. Orr PH, et al. **Can Med Assoc J** 1990 Mar 1;142(5):453–8
The case against HIV antibody testing of refugees and immigrants [letter; comment] Parker JE. **Can Med Assoc J** 1990 Jun 1;142(11):1181–2 Comment on:

Can Med Assoc J 1990 Mar 15;142(6):524–6.
The case against HIV antibody testing of refugees and immigrants [letter; comment] [see comments] Parker JE. **Can Med Assoc J** 1990 Mar 15;142(6):524–6 Comment on: Can Med Assoc J 1989 Nov 1;141(9):889–94. Comment in: Can Med Assoc J 1990 Jun 1;142(11):1181–2.
The case against HIV antibody testing of refugees and immigrants [see comments] Somerville MA. **Can Med Assoc J** 1989 Nov 1;141(9):889–94 Comment in: Can Med Assoc J 1990 Feb 15;142(4):281–2. Comment in: Can Med Assoc J 1990 Mar 15;142(6):524–6. Comment in: Can Med Assoc J 1990 May 15;142(10):1037–8.
Hemorrheological investigation on healthy natives and immigrants at 3658 M above sea level in Lhasa. Pei SX, et al. **Chin Med J [Engl]** 1989 May;102(5):392–4
Health-related expenditure patterns in selected migrant groups: data from the Australian Household Expenditure Survey, 1984. Powles J, et al. **Community Health Stud** 1990; 14(1):1–7
Hansen's disease (leprosy): the North Carolina experience. Fleischer AB Jr, et al. **Cutis** 1990 Jun;45(6):427–34
Migration distances: an international comparison. Long L, et al. **Demography** 1988 Nov;25(4):633–40
Childhood tuberculosis in a developed country. Mortensen J, et al. **Eur Respir J** 1989 Nov;2(10):985–7
Immigration, health status, and physician visits in a Puerto Rican community. Garrett RE, et al. **Fam Med** 1990 Jan–Feb;22(1):14–9
Hepatitis B virus markers in Japanese immigrants and their descendants in Bolivia and native Bolivians. Sugimura H, et al. **Gastroenterol Jpn** 1990 Jun;25(3):335–8
Helping immigrant families [letter] Chopra HD. **Hosp Community Psychiatry** 1990 Jun;41(6):679–80
New act may limit recruitment of foreign nurses. Eubanks P. **Hospitals** 1990 Feb 5;64(3):67
Cancer incidence in Jewish migrants to Israel, 1961–1981. Steinitz R, et al. **IARC Sci Publ** 1989;(98):1–311
Cancer in Jewish migrants to Israel. Parkin DM, et al. **Int J Cancer** 1990 Apr 15;45(4):614–21
Dermatologic problems for immigrant communities in a Western environment. Graham-Brown RA, et al. **Int J Dermatol** 1990 Mar;29(2):94–101 (8 ref.)
Somatic symptoms among older Soviet immigrants: an exploratory study. Kohn R, et al. **Int J Soc Psychiatry** 1989 Winter;35(4):350–60
Homosexuality and illegal residency status in relation to substance abuse and personality traits among Mexican nationals. Tori CD. **J Clin Psychol** 1989 Sep;45(5):814–21
Immigration, stress, and depressive symptoms in a Mexican-American community. Golding JM, et al. **J Nerv Ment Dis** 1990 Mar;178(3):161–71
The evolution of outsider exclusion. Peck JR. **J Theor Biol** 1990 Feb 22;142(4):565–71
Nutritional status, migration, mortality, and measles vaccine coverage during the 1983–1985 drought period: Timbuktu, Mali. Carnell MA, et al. **J Trop Pediatr** 1990 Jun; 36(3):109–13
Immigrant attitudes toward the physician [letter] Anderson R. **JAMA** 1990 Sep 12;264(10):1252
US immigration controls [letter; comment] Whiteside M, et al. **Lancet** 1990 Feb 10;335(8685):356 Comment on: Lancet 1990 Jan 20;335(8682):172.
Foreign medical graduates. The experience of the Australian Medical Examining Council and the Australian Medical Council, 1978–1989: implications for medical immigration and the medical workforce [see comments] Blacket RB. **Med J Aust** 1990 Aug 6;153(3):125–32 Comment in: Med J Aust 1990 Aug 6;153(3):124–5.
Medical immigration and the medical workforce [editorial; comment] Thong YH. **Med J Aust** 1990 Aug 6;153(3):124–5 Comment on: Med J Aust 1990 Aug 6;153(3):125–32.
Screening immigrants and international travelers for the human immunodeficiency virus. Gostin LO, et al. **N Engl J Med** 1990 Jun 14;322(24):1743–6
HIV and U.S. Immigration law [letter] Jones P. **N Engl J Med** 1990 Feb 8;322(6):409
AIDS conference. European Parliament backs boycott [news] Coles P. **Nature** 1990 Jan 25;343(6256):297
Immigration Nursing Relief Act [letter] Shamir R. **Nurs Outlook** 1990 Jul-Aug;38(4):163
A model of psychological adaptation to migration and resettlement. Aroian KJ. **Nurs Res** 1990 Jan–Feb;39(1):5–10
How to communicate with foreign-speaking patients. Koscove E. **Postgrad Med** 1989 Nov 1;86(6):88
Eosinophilia in immigrants and returning travelers. Rogers M, et al. **R I Med J** 1990 May;73(5):189–96
Emigration of doctors, military service and alternative service. Some proposals based on a survey of medical students. Michelow I, et al. **S Afr Med J** 1990 Sep 15; 78(6):312–5
HIV: dangerous and contagious? [news] **Science** 1990 Jun 1;248(4959):1075
Suicide and net migration in Texas counties, 1970 and 1980. Saenz R. **Soc Biol** 1989 Spring-Summer;36(1-2):32–44
Turkish migrants and somatic fixation in The Netherlands: research in Amsterdam. de Bruyn M. **Soc Sci Med** 1989; 29(7):897–8
Assessing Arab-American health care needs. Laffrey SC, et al. **Soc Sci Med** 1989;29(7):877–83
Differential mortality by ethnicity: foreign-born Irish, Italians and Jews in New York City, 1979–81. Rosenwaike I, et al. **Soc Sci Med** 1989;29(7):885–9
Tuberculosis in British Columbia among immigrants from five Asian countries, 1982–85. Wang JS, et al. **Tubercle** 1989 Sep;70(3):179–86
[Imported infectious diseases in patients at Blegdam's Hospital and the epidemic diseases department of Rigshospitalet, Copenhagen, during 1975–1986] Magnussen P. **Ugeskr Laeger** 1989 Sep 25;151(39):2509–14 (Eng. Abstr.) (Dan)
[Global health index among immigrants in Québec] Cousineau D. **Can J Public Health** 1990 May-Jun; 81(3):187–90 (Eng. Abstr.) (Fre)
[Migration and cancer] Sasco AJ. **Rev Med Interne** 1989 Jul-Aug;10(4):341–8 (50 ref.) (Fre)
[Health care of immigrants (letter)] Holck P, et al. **Tidsskr Nor Laegeforen** 1990 Jun 30;110(17):2275–7 (Nor)
[Migrations and mental health: reminder] Tizón JL. **Gac Sanit** 1989 Sep-Oct;3(14):527–9 (35 ref.) (Spa)
[Influence of migration on the prevalence of multiple sclerosis in a high-risk area (letter)] Martín R, et al. **Neurologia** 1989 Apr;4(3):108 (Spa)
[Psychosocial treatment—a model used to help people seeking asylum] Arellano E, et al. **Lakartidningen** 1989 Oct 4;86(40):3385–6 (Swe)

HISTORY

Health and settlement 1788–95: life and death in the colony's early years. Watt J. **Aust N Z J Surg** 1989 Nov; 59(11):845–54
Health and settlement 1788–95: surgeons and the environment. Watt J. **Aust N Z J Surg** 1989 Dec; 59(12):923–31
Grosse Ile: the Isle of Sorrows recalls the plague years. Thomson G. **Can Med Assoc J** 1990 Jul 1;143(1):56–9
Dirt, flies, and immigrants: explaining the epidemiology of poliomyelitis, 1900–1916. Rogers N. **J Hist Med Allied Sci** 1989 Oct;44(4):486–505
Healers and strangers. Immigrant attitudes toward the physician in America—a relationship in historical perspective. Kraut AM. **JAMA** 1990 Apr 4;263(13):1807–11
Suicide rates in immigrant groups and their countries of origin: an examination of data from early in the 20th century. Lester D. **Psychol Rep** 1989 Dec;65(3 Pt 1):818
Smith Ely Jelliffe and the immigration of European physicians to the United States in the 1930s. Krasner D. **Trans Stud Coll Physicians Phila** 1990 Mar;12(1):49–67

STATISTICS & NUMERICAL DATA

Estimates of historical migration in County Durham. Smith MT, et al. **Ann Hum Biol** 1989 Nov-Dec;16(6):543–7
Intestinal parasites in Central American immigrants in the United States. Salas SD, et al. **Arch Intern Med** 1990 Jul; 150(7):1514–6
HIV antibody screening among immigrants: a cost–benefit analysis. Zowall H, et al. **Can Med Assoc J** 1990 Jul 15; 143(2):101–7
Immigration, below-replacement fertility, and long-term national population trends. Mitra S. **Demography** 1990 Feb; 27(1):121–9
Characteristics of emigrants from Hawaii. Johnson RC, et al. **J Biosoc Sci** 1989 Oct;21(4):453–9
Emigration patterns among 1974 British medical graduates. Parkhouse HF, et al. **Med Educ** 1990 Jul;24(4):382–8
Immigration and rates of personal violence (suicide and homicide). Lester D. **Psychol Rep** 1989 Dec;65(3 Pt 2):1298

TRENDS

Migration within the island of Korčula, Yugoslavia. Sujoldžić A, et al. **Ann Hum Biol** 1989 Nov-Dec;16(6):483–93
US immigration controls [letter] [see comments] Minuth AN. **Lancet** 1990 Jan 20;335(8682):172 Comment in: Lancet 1990 Feb 10;335(8685):356.

EMMENAGOGUES see **MENSTRUATION INDUCING AGENTS**

EMODIN see under **ANTHRAQUINONES**

EMOLLIENTS see under **DERMATOLOGIC AGENTS**

EMOTIONAL DISTURBANCES see **AFFECTIVE SYMPTOMS**

EMOTIONAL STRESS see **STRESS, PSYCHOLOGICAL**

EMOTIONS

see related
AFFECTIVE SYMPTOMS
MOTIVATION

Role of emotional factors in diabetes. Szabó-Kállai K, et al. **Acta Diabetol Lat** 1990 Jan-Mar;27(1):23–9
Do small children react emotionally to affective mimic stimuli? de Oliveira GE, et al. **Acta Paedopsychiatr** 1989; 52(1):26–35
Emotional adaptation over time in care-givers for chronically ill elderly people. Rabins PV, et al. **Age Ageing** 1990 May; 19(3):185–90
Parental reaction to a child's hearing impairment. Kampfe CM. **Am Ann Deaf** 1989 Oct;134(4):255–9 (20 ref.)
Teaching the perception of expressive aspects of vocal communication. Alpert M, et al. **Am J Psychiatry** 1967 Aug;124(2):202–9; discussion 209–11
Differential diagnosis and classification of apathy. Marin RS. **Am J Psychiatry** 1990 Jan;147(1):22–30 (58 ref.)
Disorders of food selection. The compromise of pleasure. Rozin P. **Ann N Y Acad Sci** 1989;575:376–85; discussion 385–6 (39 ref.)
Involvement of the brain noradrenaline system in emotional changes caused by stress in rats. Tanaka M, et al. **Ann N Y Acad Sci** 1990;597:159–74 (87 ref.)
Emotional response transformations. Redirections and projections. Clark JG. **ASHA** 1990 Jun-Jul;32(6-7):67–8
Understanding family variables in outcome research in schizophrenia. Bland R. **Aust N Z J Psychiatry** 1989 Sep; 23(3):396–402
Genetic correlations in validating emotionality. van der Staay FJ, et al. **Behav Genet** 1990 Jan;20(1):51–62
Asymmetry in the relationship between finger temperature changes and emotional state in males. McFarland RA, et al. **Biofeedback Self Regul** 1989 Dec;14(4):281–90
Family cohesion, expressiveness and conflict in alcoholic families. Barry KL, et al. **Br J Addict** 1990 Jan;85(1):81–7
Emotional Stroop performance and the manic defence. Bentall RP, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):235–7
Processing of emotional information in anxious subjects. Mogg K, et al. **Br J Clin Psychol** 1990 May;29 (Pt 2):227–9
Expressed emotion in caregivers of the dementing elderly. Gilhooly ML, et al. **Br J Med Psychol** 1989 Sep;62 (Pt 3):265–72
Expressed emotion and first-admission schizophrenia. Nine-month follow-up in a French cultural environment. Barrelet L, et al. **Br J Psychiatry** 1990 Mar;156:357–62
Schizophrenia and the perception of emotions. How accurately do schizophrenics judge the emotional states of others? Cramer P, et al. **Br J Psychiatry** 1989 Aug; 155:225–8
Relatives' expressed emotion and the course of schizophrenia in Chandigarh. A two-year follow-up of a first-contact sample. Leff J, et al. **Br J Psychiatry** 1990 Mar;156:351–6
Lithium prophylaxis and expressed emotion. Priebe S, et al. **Br J Psychiatry** 1989 Mar;154:396–9
Patterns of expressed emotion and patient coping styles that characterise the families of recent onset schizophrenics. Goldstein MJ, et al. **Br J Psychiatry Suppl** 1989 Jul; (5):107–11
Electrodermal activity, expressed emotion and outcome in schizophrenia. Tarrier N. **Br J Psychiatry Suppl** 1989 Jul; (5):51–6
Age and social competence in preschoolers' decoding of facial expression. Philippot P, et al. **Br J Soc Psychol** 1990 Mar;29 (Pt 1):43–54
Perceiver and poser asymmetries in processing facial emotion. Borod JC, et al. **Brain Cogn** 1990 Jul;13(2):167–77
Sex differences in the lateralized processing of facial emotion. Burton LA, et al. **Brain Cogn** 1989 Nov;11(2):210–28
Hemispheric consequences of success-related emotional states: roles of arousal and attention. Derryberry D. **Brain Cogn** 1989 Nov;11(2):258–74
Beyond scripts: a note on the capacity of right hemisphere-damaged patients to process social and emotional content. Ostrove JM, et al. **Brain Cogn** 1990 Jan; 12(1):144–54
Recognition memory for emotional facial expressions in patients with focal cerebral lesions. Weddell RA. **Brain Cogn** 1989 Sep;11(1):1–17
Differences in asymmetric perception of facial expression in free-vision chimeric stimuli and reaction time. Wirsén A, et al. **Brain Cogn** 1990 Mar;12(2):229–39
Facial and verbal congruency: effects on perceived verbal and emotional coaching feedback [see comments] Crocker PR. **Can J Sport Sci** 1990 Mar;15(1):17–22 Comment in: Can J Sport Sci 1990 Mar;15(1):3–4.
Daily emotional states as reported by children and adolescents. Larson R, et al. **Child Dev** 1989 Oct; 60(5):1250–60
Effect of diabetes education on self-care, metabolic control, and emotional well-being. Rubin RR, et al. **Diabetes Care** 1989 Nov-Dec;12(10):673–9
Emotion and illness in the adolescent. Fraad LM. **Dis Nerv Syst** 1967 Jul;28(7 Pt 2):40–3
Emotional and social reactions of children to epilepsy in a parent. Aldenkamp AP, et al. **Fam Pract** 1990 Jun; 7(2):110–5
The doctor and his feelings: a course for residents in family medicine. Rabinowitz S, et al. **Fam Pract** 1989 Sep; 6(3):199–202
Discrimination of facial expressions of emotion by depressed subjects. Cooley EL, et al. **Genet Soc Gen Psychol Monogr** 1989 Nov;115(4):449–65
Cognitive correlates of headache intensity and duration. Demjen S, et al. **Headache** 1990 Jun;30(7):423–7
Dyspnea during hospitalizations for acute phase of illness as recalled by patients with chronic obstructive pulmonary disease. DeVito AJ. **Heart Lung** 1990 Mar;19(2):186–91
Feeling and valuing: educational imperatives. Brady L. **Hygie** 1990 Jun;9(2):12–5
Hypnotic emotions and physical sensations: a real-simulating analysis. Bryant RA, et al. **Int J Clin Exp Hypn** 1989 Oct; 37(4):305–19
The craft of bridging. Ormont L. **Int J Group Psychother** 1990 Jan;40(1):3–17

Interhemispheric asymmetry of positive emotional reactions in rats. Bianki VL, et al. **Int J Neurosci** 1989 Aug; 47(3–4):193–201

Expressed emotion and psychosocial intervention: a review. Brooker C. **Int J Nurs Stud** 1990;27(3):267–76 (45 ref.)

The application of the concept of expressed emotion to the role of the community psychiatric nurse: a research study. Brooker C. **Int J Nurs Stud** 1990;27(3):277–85 (27 ref.)

On Freud's "project" [letter] Harrison IB. **J Am Psychoanal Assoc** 1989;37(4):1130–2

Sibling rivalry and the problem of envy. Stein M. **J Anal Psychol** 1990 Apr;35(2):161–74

Contribution of concrete cognition to emotion: neutral symptoms as elicitors of worry about cancer. Easterling DV, et al. **J Appl Psychol** 1989 Oct;74(5):787–96

Emotion-related and abstract concepts in autistic people: evidence from the British Picture Vocabulary Scale. Hobson RP, et al. **J Autism Dev Disord** 1989 Dec; 19(4):601–23

Emotive imagery and children's night-time fears: a multiple baseline design evaluation. King N, et al. **J Behav Ther Exp Psychiatry** 1989 Jun;20(2):125–35

Recognition and expression of emotional cues by autistic and normal adults. Macdonald H, et al. **J Child Psychol Psychiatry** 1989 Nov;30(6):865–77

Are there emotion perception deficits in young autistic children? Oronoff S, et al. **J Child Psychol Psychiatry** 1990 Mar;31(3):343–61

Autistic children's knowledge of thinking and feeling states in other people. Prior M, et al. **J Child Psychol Psychiatry** 1990 May;31(4):587–601

Comparisons of two expressed emotion scales with the Camberwell Family Interview. Kazarian SS, et al. **J Clin Psychol** 1990 May;46(3):306–9

Context-specific conditioning in the conditioned-emotional-response procedure. Hall G, et al. **J Exp Psychol [Anim Behav]** 1990 Jul;16(3):271–8

Acupuncture and emotion: the influence of acupuncture anesthesia on the sensory and emotional components of pain. Yang ZL, et al. **J Gen Psychol** 1989 Jul;116(3):247–58

Longitudinal findings from the Normative Aging Study: II. Do emotionality and extraversion predict symptom change? Spiro A 3d, et al. **J Gerontol** 1990 Jul;45(4):P136–44

The use of the passions in psychological healing. Jackson SW. **J Hist Med Allied Sci** 1990 Apr;45(2):150–75

Comprehension of prosody in Huntington's disease. Speedie LJ, et al. **J Neurol Neurosurg Psychiatry** 1990 Jul; 53(7):607–10

Hope, self-esteem and social support in persons with multiple sclerosis. Foote AW, et al. **J Neurosci Nurs** 1990 Jun; 22(3):155–9

Inferring emotions from multiple cues: revealing age-related differences in "how" without differences in "can". Wells RS, et al. **J Pers** 1989 Dec;57(4):747–71

Perceiving affective content in ambiguous visual stimuli: a component of emotional intelligence. Mayer JD, et al. **J Pers Assess** 1990 Summer;54(3–4):772–81

Effects of daily stress on negative mood. Bolger N, et al. **J Pers Soc Psychol** 1989 Nov;57(5):808–18

Role of cognitive-emotional mediators and individual differences in the effects of media violence on aggression. Bushman BJ, et al. **J Pers Soc Psychol** 1990 Jan; 58(1):156–63

Facial expressions and the regulation of emotions. Izard CE. **J Pers Soc Psychol** 1990 Mar;58(3):487–98 (110 ref.)

Conflict over emotional expression: psychological and physical correlates. King LA, et al. **J Pers Soc Psychol** 1990 May;58(5):864–77

The suppression of exciting thoughts. Wegner DM, et al. **J Pers Soc Psychol** 1990 Mar;58(3):409–18

Exploring expressed emotion. Does it contribute to chronic mental illness? de Cangas JP. **J Psychosoc Nurs Ment Health Serv** 1990 Feb;28(2):31–4

Mood cyclicity in women with an without the premenstrual syndrome. Metcalf MG, et al. **J Psychosom Res** 1989; 33(4):407–18

Psychological problems of patients with cleft lip and palate: discussion paper. Lansdown R. **J R Soc Med** 1990 Jul; 83(7):448–50

Emotion psychology can contribute to psychiatric work on affect disorders: a review. Scherer KR. **J R Soc Med** 1989 Sep;82(9):545–7 (18 ref.)

The use of visualization as a means of integrating the spiritual dimension into treatment: Part II. Working with emotions. Krystal S, et al. **J Subst Abuse Treat** 1989;6(4):223–8 (20 ref.)

A piece of my mind. HOPE. Buchholz WM. **JAMA** 1990 May 2;263(17):2357–8

Emotional responses of athletes to injury. Smith AM, et al. **Mayo Clin Proc** 1990 Jan;65(1):38–50

Maintaining serenity in chronic illness. Galloway J. **N Y State J Med** 1990 Jul;90(7):366–7

Socioemotional development. **Nebr Symp Motiv** 1988; 36:1–467

The role of emotions in the development and organization of personality. Malatesta CZ. **Nebr Symp Motiv** 1988; 36:1–56 (123 ref.)

Emotional competence: how emotions and relationships become integrated. Saarni C. **Nebr Symp Motiv** 1988; 36:115–82 (98 ref.)

Emotion and self-regulation. Thompson RA. **Nebr Symp Motiv** 1988;36:367–467 (246 ref.)

Lateralization for the expression and perception of facial emotion as a function of age. Moreno CR, et al. **Neuropsychologia** 1990;28(2):199–209

Enhanced right hemisphere involvement during cognitive processing may relate to intellectual precocity. O'Boyle MW, et al. **Neuropsychologia** 1990;28(2):211–6

Voluntary emotional facial expressions in patients with focal cerebral lesions. Weddell RA, et al. **Neuropsychologia** 1990; 28(1):49–60

Spontaneous causal searching and adjustment to abnormal Papanicolaou test results. Lauver D, et al. **Nurs Res** 1990 Sep–Oct;39(5):305–8

Emotion profiles and quality-of-life of paced patients. Catipović-Veselica K, et al. **PACE** 1990 Apr;13(4):399–404

Reciprocal unconditional-conditional organization of the fundamental emotions and paraadaptive personality reactions. Zaimov K. **Pavlov J Biol Sci** 1989 Oct–Dec; 24(4):143–9

Finger-pressure waveforms measured on Clynes' Sentograph distinguish among emotions. Hama H, et al. **Percept Mot Skills** 1990 Apr;70(2):371–6

"Faces and Feelings": a projective technique for measuring young children's self-esteem. Juhasz AM, et al. **Percept Mot Skills** 1990 Apr;70(2):691–702

Effects of a negative social experience on the emotional and social-cognitive responses of aggressive-rejected children. Vitaro F, et al. **Percept Mot Skills** 1989 Oct;69(2):371–82

Odour memory and odour hedonics in children. Hvastja L, et al. **Perception** 1989;18(3):391–6

Age-related alterations in cardiac response to emotional stress: relations to behavioral reactivity in the rat. Nyakas C, et al. **Physiol Behav** 1990 Feb;47(2):273–80

Attack and defense in rodents as ethoexperimental models for the study of emotion. Blanchard RJ, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S3–14 (36 ref.)

Human neuroethology of emotion. Ploog D. **Prog Neuropsychopharmacol Biol Psychiatry** 1989;13 Suppl:S15–22 (11 ref.)

Expressed emotion and auditory evoked potentials. Hegerl U, et al. **Psychiatry** 1990 May;53(2):108–14

Reasoning on social dilemmas varying in emotional saliency: an adult developmental perspective. Blanchard-Fields F. **Psychol Aging** 1986 Dec;1(4):325–33

Speaking about feelings: conceptions of emotion across the life span. Labouvie-Vief G, et al. **Psychol Aging** 1989 Dec; 4(4):425–37

Emotion communication skills in young, middle-aged, and older women. Malatesta CZ, et al. **Psychol Aging** 1987 Jun; 2(2):193–203

Structure of subjective well-being among the elderly. Stock WA, et al. **Psychol Aging** 1986 Jun;1(2):91–102

Emotional factors in forgetting. Bradley BP, et al. **Psychol Med** 1990 May;20(2):351–5

Emotion recognition in autism: coordinating faces and voices. Hobson RP, et al. **Psychol Med** 1988 Nov;18(4):911–23

Expressed emotion research in schizophrenia: theoretical and clinical implications. Kuipers L, et al. **Psychol Med** 1988 Nov;18(4):893–909 (94 ref.)

Attention and disordered eating behavior: II. Disattention to turbulent inner sensations as a risk factor in the development of anorexia nervosa. Heilbrun AB Jr, et al. **Psychol Rep** 1990 Apr;66(2):467–78

An evaluation of mood states among first-year residents [see comments] Kirsling RA, et al. **Psychol Rep** 1989 Oct; 65(2):355–66 Comment in: Psychol Rep 1989 Dec;65(3 Pt 2):1266.

Emotion, attention, and the startle reflex. Lang PJ, et al. **Psychol Rev** 1990 Jul;97(3):377–95 (110 ref.)

Identifying the components of facial emotion and schizophrenia. Mandal MK, et al. **Psychopathology** 1989; 22(6):295–300

Acute emotional and psychophysiological effects of aerobic exercise. Roth DL. **Psychophysiology** 1989 Sep; 26(5):593–602

The expression and perception of facial emotion in alexithymia: a pilot study. McDonald PW, et al. **Psychosom Med** 1990 Mar–Apr;52(2):199–210

Family assessment and linguistic interaction: analysis of the Camberwell Family Interview. Bertrando P, et al. **Psychother Psychosom** 1989;51(3):120–7

Action and emotion in everyday life. Sjöberg L, et al. **Scand J Psychol** 1990;31(1):9–27

Social functioning in schizophrenic patients. I. The effects of expressed emotion and family intervention. Barrowclough C, et al. **Soc Psychiatry Psychiatr Epidemiol** 1990 May;25(3):125–9

Neural mechanisms involved in cardiovascular control during affective behaviour. Spyer KM. **Trends Neurosci** 1989 Dec;12(12):506–13 (32 ref.)

[Asymmetry of visual perceptive activity of faces and emotional facial expressions] Gallois P, et al. **Rev Neurol (Paris)** 1989;145(8–9):661–4 (Eng. Abstr.) **(Fre)**

[Effect of emotions on the choice of goals and actions] Spies K. **Z Exp Angew Psychol** 1990;37(1):124–52 (Eng. Abstr.) **(Ger)**

[Contact and emotional relations between married children and their parents] Kossen-Knirim C. **Z Gerontol** 1989 Sep–Oct;22(5):251–7 (Eng. Abstr.) **(Ger)**

[Bodily experiences and sexuality in obese women. A clinical study] Beni D, et al. **Minerva Psichiatr** 1989 Jul–Sep; 30(3):137–45 (Eng. Abstr.) **(Ita)**

[Family expressed emotion. From research to therapeutic intervention] Invernizzi G, et al. **Minerva Psichiatr** 1990 Apr–Jun;31(2):89–96 (15 ref.) (Eng. Abstr.) **(Ita)**

[Opioid peptides in RA: modulation of immunologic mechanisms and mental states] Nakamura H, et al. **Arerugi** 1990 Feb;39(2 Pt 1):110–7 (Eng. Abstr.) **(Jpn)**

[An examination of the emotional meanings through hand movements] Masutani M, et al. **Shinrigaku Kenkyu** 1989 Aug;60(3):141–7 (Eng. Abstr.) **(Jpn)**

[Effects of choosing a task on interpersonal feeling and appreciation] Yagi Y, et al. **Shinrigaku Kenkyu** 1989 Aug; 60(3):170–9 (Eng. Abstr.) **(Jpn)**

[Sympathy and empathy in medical practice] Rembowski J. **Psychiatr Pol** 1989 May–Jun;23(3):228–31 (15 ref.) **(Pol)**

[Effect of hypokinesia on the ultrastructure of emotion-controlling structures in the rat brain] Zhvaniia MG, et al. **Arkh Anat Gistol Embriol** 1990 Jan;98(1):27–34 (Eng. Abstr.) **(Rus)**

[Effects of destruction and activation of limbic structures on formation of convulsive and emotional disorders during picrotoxin kindling] Kryzhanovskiĭ GN, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):531–4 (Eng. Abstr.) **(Rus)**

[Emotional-volitional training in the combined treatment of patients with rheumatoid arthritis] Siniachenko VV, et al. **Ter Arkh** 1990;62(1):58–62 (Eng. Abstr.) **(Rus)**

[The psychoemotional status of sailors when shipboard life-support systems are out of commission] Nikitin EA, et al. **Voen Med Zh** 1990 Feb;(2):58–60 **(Rus)**

[The role of emotional-volitional traits in patients with ischemic heart disease in carrying out dietetic recommendations during long-term clinical observation] Samsonov MA, et al. **Vopr Pitan** 1989 Sep–Oct;(5):28–33 (Eng. Abstr.) **(Rus)**

[Clinico-pathopsychological study of personality traits and emotions in patients with affective psychoses] Beliaev BS, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):80–6 (Eng. Abstr.) **(Rus)**

[Use of the emotional reflection inversion test for detection of persons with high risk of development of neurotic disorders] Nikolaeva EI, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):111–4 (Eng. Abstr.) **(Rus)**

[Language and reality: the origin of man] Maturana H. **Arch Biol Med Exp (Santiago)** 1989 Jul;22(2):77–81 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Emotional perception and memory in alcoholism and aging. Oscar-Berman M, et al. **Alcohol Clin Exp Res** 1990 Jun; 14(3):383–93

A new experimental approach for detecting emotional and motivational changes produced by neuroactive compounds in rodents. Cuomo V, et al. **Ann Ist Super Sanita** 1990; 26(1):89–94 (50 ref.)

Kainic acid lesions of the cat's midbrain periaqueductal grey region and emotional-defensive response evoked by carbachol injection to the same loci. Gołębiewski H, et al. **Behav Brain Res** 1989 Oct 1;35(1):1–7

Nimodipine accelerates recovery from the hyperemotionality produced by septal lesions. Poplawsky A, et al. **Behav Neural Biol** 1990 Jan;53(1):133–9

Hemispheric specialization for emotional expression: a reexamination of results from intracarotid administration of sodium amobarbital. Lee GP, et al. **Brain Cogn** 1990 Mar;12(2):267–80

Circadian patterns of basic emotional reactivity and stress related events revisited in mice treated with lithium: behavioral rhythmometric analyses. Poirel C, et al. **Chronobiologia** 1989 Jul–Sep;16(3):229–39

Centrally induced feline emotional behavior and limbic kindling. Hiyoshi T, et al. **Epilepsia** 1990 May–Jun; 31(3):259–69

Effects of desipramine maintenance on cocaine self-administration by humans. Fischman MW, et al. **J Pharmacol Exp Ther** 1990 May;253(2):760–70

Low-dose caffeine discrimination in humans. Griffiths RR, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):970–8

Affect regulation, nicotine addiction, and smoking cessation. Carmody TP. **J Psychoactive Drugs** 1989 Jul–Sep; 21(3):331–42 (76 ref.)

CCK8 effects on motivational and emotional states of rats involve CCKA receptors of the postero-median part of the nucleus accumbens. Daugé V, et al. **Pharmacol Biochem Behav** 1989 Sep;34(1):157–63

Effects of bromocriptine pretreatment on subjective and physiological responses to i.v. cocaine. Kumor K, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):829–37

Subjective response during continuous infusion of cocaine. Kumor KM, et al. **Pharmacol Biochem Behav** 1989 Jun; 33(2):443–52

Intravenous cocaine infusions in humans: dose responsivity and correlations of cardiovascular vs. subjective effects. Muntaner C, et al. **Pharmacol Biochem Behav** 1989 Dec; 34(4):697–703

Amperozide and emotional behaviour. Gustafsson B, et al. **Pharmacol Toxicol** 1990;66 Suppl 1:34–9

The effects of capsaicin on emotional responses to odors in the rat. Cormareche-Leydier M, et al. **Physiol Behav** 1989 Oct;46(4):679–84

Effects of maternal hormones on 'timidity' and attraction to pup-related odors in female rats. Fleming AS, et al.

Physiol Behav 1989 Sep;46(3):449–53

Listening, priming and emotion under a neuroleptic drug. Hartley LR, et al. **Physiol Behav** 1990 May;47(5):837–41

[The role of the brain monoaminergic systems in the effects of tuftsin and its analog on animal emotional behavior] Semenova GP, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):759–65 (Eng. Abstr.) (Rus)

[Differences in the effect of diazepam on realized and non-realized conditioned emotional reactions] Kostandov EA, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):103–8 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Preferential responses of autonomic nervous system. Vernet-Maury E, et al. **Act Nerv Super (Praha)** 1990 Mar; 32(1):37–8

Emotional behaviours elicited by hypothalamic stimulation. Badikov VI. **Acta Physiol Scand Suppl** 1989;583:49–52

Correlations between behavior of mice in Porsolt's swim test and in tests of anxiety, locomotion, and exploration. Hilakivi LA, et al. **Behav Neural Biol** 1990 Mar;53(2):153–9

Lesion localization in acquired deficits of emotional expression and comprehension. Cancelliere AE, et al. **Brain Cogn** 1990 Jul;13(2):133–47

Neurodevelopmental differences in emotional prosody in normal children and children with left and right temporal lobe epilepsy. Cohen M, et al. **Brain Lang** 1990 Jan; 38(1):122–34

The emotional basis of illness. Lehmann HE. **Dis Nerv Syst** 1967 Jul;28(7 Pt 2):12–9

Sensory and affective aspects of pain perception: is medial thalamus restricted to emotional issues? Bushnell MC, et al. **Exp Brain Res** 1989;78(2):415–8

Differential effects of naloxone on neuroendocrine responses to fear-related emotional stress. Onaka T, et al. **Exp Brain Res** 1990;81(1):53–8

Daily fluctuation of impulses and emotions in healthy individuals. Madjirova N. **Folia Med (Plovdiv)** 1989; 31(1):26–35

Psychophysiological micromapping of the human brain. Bechtereva NP, et al. **Int J Psychophysiol** 1989 Nov; 8(2):107–35

Approach-withdrawal and cerebral asymmetry: emotional expression and brain physiology. I. Davidson RJ, et al. **J Pers Soc Psychol** 1990 Feb;58(2):330–41

The Duchenne smile: emotional expression and brain physiology. II. Ekman P, et al. **J Pers Soc Psychol** 1990 Feb;58(2):342–53

The occurrence of positive perimenstrual changes [letter; comment] Chaturvedi SK, et al. **J Psychosom Res** 1989; 33(3):383 Comment on: J Psychosom Res 1988;32(1):31–40.

The Autonomic Nervous System Response Inventory (ANSRI): prediction of psychophysiological response. Waters WF, et al. **J Psychosom Res** 1989;33(3):347–61

Emotional facial expressions at the onset of temporal lobe seizures: observations on scalp and intracranial EEG recordings. Hiyoshi T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):419–26

Psychophysiological correlates of human brain asymmetry: blood pressure changes during lateralized presentation of an emotionally laden film. Wittling W. **Neuropsychologia** 1990;28(5):457–70

Pupillary responses in recognizing awareness in persons with profound mental retardation. Chaney RH, et al. **Percept Mot Skills** 1989 Oct;69(2):523–8

Animal models of anxiety based on classical conditioning: the conditioned emotional response (CER) and the fear-potentiated startle effect. Davis M. **Pharmacol Ther** 1990;47(2):147–65 (173 ref.)

Influences of psychological stress produced by intraspecies emotional communication on nicorandil plasma levels in rats. Gomita Y, et al. **Pharmacology** 1989;38(6):388–96

Electrical hypothalamic stimulation in rats induces hyperthermia if and only if they learn to self-stimulate. Briese E, et al. **Physiol Behav** 1990 Apr;47(4):635–9

Psychological stress of exposure to uncontrollable noise increases plasma oxytocin in high emotionality women. Sanders G, et al. **Psychoneuroendocrinology** 1990; 15(1):47–58

The autonomic differentiation of emotions revisited: convergent and discriminant validation. Stemmler G. **Psychophysiology** 1989 Nov;26(6):617–32

Emotional repression, stress disclosure responses, and Epstein-Barr viral capsid antigen titers. Esterling BA, et al. **Psychosom Med** 1990 Jul-Aug;52(4):397–410

Perceived unpleasantness and facial reactions to auditory stimuli. Dimberg U. **Scand J Psychol** 1990;31(1):70–5

Motion and emotion: a discussion of the interaction between physical motion and human emotion. Penneys R. **Semin Neurol** 1989 Jun;9(2):122–30

[Too weak with laughing] Egeler-Peerdeman SM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 10;134(10):465–8 (Dut)

[Basic emotions. Phenomenology, psychodynamics, EEG spectral analysis] Machleidt W, et al. **Monogr Gesamtgeb Psychiatr (Berlin)** 1989;57:1–251 (Ger)

[Psychological responses in women with normal pregnancy] Kochneva MA, et al. **Akush Ginekol (Mosk)** 1990 Mar; (3):13–6 (Eng. Abstr.) (Rus)

[Activation processes and emotions in the ontogeny of the child] Farber DA, et al. **Fiziol Cheloveka** 1989 May-Jun; 15(3):61–8 (Rus)

[The asymmetry of the expressivity of the electrical activity rhythms in the cerebral hemispheres as a correlate of negative human emotional states] Konovalov VF, et al. **Fiziol Cheloveka** 1990 Mar-Apr;16(2):22–30 (Rus)

[Color preference as an index of emotional-personality characteristics (research under conditions of transient depression of the right or left hemisphere)] Nikolaenko NN, et al. **Fiziol Cheloveka** 1989 Jul-Aug;15(4):11–5 (Rus)

[Disturbances of the physiological mechanisms of perception, emotion and thought in various types of psychiatric pathology] Strelets VB. **Fiziol Cheloveka** 1989 May-Jun; 15(3):135–44 (Rus)

[Left-handedness and the recognition of the emotional-prosodic characteristics of speech in local brain pathology] TaLkhan AU. **Fiziol Cheloveka** 1990 Jan-Feb; 16(1):81–7 (Rus)

[Neuronal bases of the emotional mechanisms of reinforcement] Vartanian GA. **Fiziol Cheloveka** 1989 Sep-Oct;15(5):22–31 (Rus)

[Neuronal activity of the ventromedial hypothalamus in motivated, emotionally positive and negative states] Gasanov GG, et al. **Fiziol Zh SSSR** 1989 Aug;75(8):1038–42 (Eng. Abstr.) (Rus)

[Emotional behavior and correlation of the processes of membrane and cavity digestion in rats] Krakovskiĭ ME, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):824–8 (Eng. Abstr.) (Rus)

[Functional state of the vascular wall in patients with coronary arteriosclerosis and different types of reactions to psycho- emotional stress] Sokolov EI, et al. **Kardiologiia** 1990 Apr;30(4):69–72 (Eng. Abstr.) (Rus)

[Characteristics of color selection in the Luscher test as indicators of a typical emotional status of pilots] Kuznetsov ON, et al. **Kosm Biol Aviakosm Med** 1990 Mar-Apr; 24(2):15–8 (Eng. Abstr.) (Rus)

[The pathophysiological problems of emotional memory] Gromova EA. **Patol Fiziol Eksp Ter** 1990 May-Jun;(3):3–8 (31 ref.) (Rus)

[A comparison of the psychoemotional test data of patients with cardialgia] Raĭtses IV. **Vrach Delo** 1989 Jul;(7):73–5 (Rus)

[Relation of emotional and cognitive processes in endogenous depression (results of the Rorschach test] Dragunskaia LS. **Zh Nevropatol Psikhiatr** 1990;90(4):92–5 (Eng. Abstr.) (Rus)

[Emotional reactivity of patients with depression] Mikhallova ES, et al. **Zh Nevropatol Psikhiatr** 1990;90(4):86–91 (Eng. Abstr.) (Rus)

[Interrelations of the emotionally positive and negative areas of the brain in the edible snail] Balaban PM, et al. **Zh Vyssh Nerv Deiat** 1990 Jan-Feb;40(1):125–34 (Eng. Abstr.) (Rus)

[The effect of single maximal physical loading on the emotional behavior of rats] Boev VM, et al. **Zh Vyssh Nerv Deiat** 1989 Nov-Dec;39(6):1027–33 (Eng. Abstr.) (Rus)

[Dependence of the electrical activity of the amygdaloid complex on motivation level and emotional status in the dog] Feshchenko VA, et al. **Zh Vyssh Nerv Deiat** 1989 Nov-Dec;39(6):1018–26 (Eng. Abstr.) (Rus)

[The participation of CCK-8-ergic mechanisms in the regulation of emotional behavior in rodents] Kharro IaE, et al. **Zh Vyssh Nerv Deiat** 1989 Sep-Oct;39(5):877–83 (Eng. Abstr.) (Rus)

[The effect of the animals' emotional state on ethanol consumption under free-choice conditions] Kudriavtseva NN, et al. **Zh Vyssh Nerv Deiat** 1990 May-Jun;40(3):502–7 (Eng. Abstr.) (Rus)

[Changes in the level of oxygen tension in different brain structures of rats in positive and negative emotional states] Sarkisova KIu. **Zh Vyssh Nerv Deiat** 1990 Mar-Apr; 40(2):351–61 (Eng. Abstr.) (Rus)

[The psychophysiology of the emotions and personality] Simonov PV. **Zh Vyssh Nerv Deiat** 1990 Mar-Apr; 40(2):211–7 (19 ref.) (Eng. Abstr.) (Rus)

[The effect of adaptation to the periodic action of high-altitude hypoxia on the emotional behavior of rats] Ustinova EE, et al. **Zh Vyssh Nerv Deiat** 1989 Nov-Dec; 39(6):1112–5 (Rus)

[The role of feedback stimuli in discriminating micro time intervals in emotionally excitable subjects] Vazhnova TN, et al. **Zh Vyssh Nerv Deiat** 1990 May-Jun;40(3):581–4 (Rus)

[Analysis of sexual differences in emotional reactions in rats] Martínez-Pereda JA, et al. **Rev Esp Fisiol** 1989 Sep; 45(3):239–43 (Eng. Abstr.) (Spa)

EMPATHY

A cognitive/affective empathy training program as a function of ego development in aggressive adolescent females. Pecukonis EV. **Adolescence** 1990 Spring;25(97):59–76

AIDS: toward a compassionate response. Peloquin SM. **Am J Occup Ther** 1990 Mar;44(3):271–8

Participatory matching [letter] Friedman EH. **Am J Psychiatry** 1989 Dec;146(12):1650

Empirical study of empathy [letter; comment] Grattan LM, et al. **Am J Psychiatry** 1989 Nov;146(11):1521–2 Comment on: Am J Psychiatry 1989 Jan;146(1):10–9.

The therapeutic empathic communication (TEC) process. Miller IJ. **Am J Psychother** 1989 Oct;43(4):531–45

Empowerment in general practice. The trilogies of caring. McKay B, et al. **Aust Fam Physician** 1990 Apr;19(4):513, 516–20

The effect of impulsivity and empathy on abstinence of poly-substance abusers: a prospective study. McCown W. **Br J Addict** 1990 May;85(5):635–7

Towards a psychology of caring. Hall JN. **Br J Clin Psychol** 1990 May;29 (Pt 2):129–44 (66 ref.)

The art of counselling [editorial] Cohen B. **Br J Hosp Med** 1990 Apr;43(4):251

Psychoanalytic contributions to psychotherapy: clinical empathy. Berger DM. **Can J Psychiatry** 1989 Nov; 34(8):775–8

Intersubjective processes in psychotherapy. Frayn DH. **Can J Psychiatry** 1990 Jun;35(5):434–8

An exploratory study of selected female registered nurses: meaning and expression of nurturance. Geissler EM. **J Adv Nurs** 1990 May;15(5):525–30

Maintaining the ethic of caring in nursing [editorial] Harrison LL. **J Adv Nurs** 1990 Feb;15(2):125–7

Compassion and altruism in psychoanalytic theory: an evolutionary analysis of self psychology. Kriegman D. **J Am Acad Psychoanal** 1990 Summer;18(2):342–67

Empathy in clinical dietitians and dietetic interns. Spraggins EF, et al. **J Am Diet Assoc** 1990 Feb;90(2):244–9

Psychoanalytic observation. Spencer JH Jr, et al. **J Am Psychoanal Assoc** 1990;38(2):393–421 (36 ref.)

Autistic children's knowledge of thinking and feeling states in other people. Prior M, et al. **J Child Psychol Psychiatry** 1990 May;31(4):587–601

Can psychotherapists transcend the shackles of their training and superstitions? Lazarus AA. **J Clin Psychol** 1990 May; 46(3):351–8

The relation of distressful childhood experiences and empathy in college undergraduates. Barnett MA, et al. **J Genet Psychol** 1989 Dec;150(4):417–26

The effects of care and economics on nursing practice. Nyberg J. **J Nurs Adm** 1990 May;20(5):13–8

Helping students understand the sensations and emotions of labor. Baker C. **J Nurs Educ** 1990 May;29(5):238–9

The family origins of empathic concern: a 26-year longitudinal study. Koestner R, et al. **J Pers Soc Psychol** 1990 Apr;58(4):709–17

The nurse in relationship.... Balasco EM. **J Prof Nurs** 1990 Jan-Feb;6(1):4

Treatment, torture, suffering, and compassion [editorial] Copp LA. **J Prof Nurs** 1990 Jan-Feb;6(1):1–2

Education. The need for care of nursing students. Hegyvary ST. **J Prof Nurs** 1990 Jul-Aug;6(4):190

On the nature and place of empathy in clinical nursing practice. Pike AW. **J Prof Nurs** 1990 Jul-Aug;6(4):235–40; discussion 240–1 (22 ref.)

Sympathy and altruism in response to disasters. Russell GW, et al. **J Soc Psychol** 1990 Jun;130(3):309–16

Compassion, compensation and HIV [editorial] Dwyer JM. **Med J Aust** 1990 Jul 2;153(1):1–2

The culture of caring: AIDS and the nursing profession. Fox RC, et al. **Milbank Q** 1990;68 Suppl 2:226–56

Empathy, self-esteem and creativity among junior ballet dancers. Kalliopuska M. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1227–34

The Young Children's Empathy Measure: reliability, validity and effects of companion animal bonding. Poresky RH. **Psychol Rep** 1990 Jun;66(3 Pt 1):931–6

A model of empathic understanding and adherence to treatment regimens in practitioner-patient relationships. Squier RW. **Soc Sci Med** 1990;30(3):325–39 (96 ref.)

The significance of empathy in current hospital based practice. Bennett CJ, et al. **Soc Work Health Care** 1989; 14(2):27–41

[Treatment of schizophrenia from the viewpoint of the patient. Studies on the course of treatment and neuroleptic treatment from a personal perspective] Windgassen K. **Monogr Gesamtgeb Psychiatr (Berlin)** 1989;58:1–169 (Ger)

[Max Weber's importance for the concept of understanding in psychiatry] Frommer J, et al. **Nervenarzt** 1990 Jul; 61(7):397–401 (Ger)

[Sympathy and empathy in medical practice] Rembowski J. **Psychiatr Pol** 1989 May-Jun;23(3):228–31 (15 ref.) (Pol)

EMPHYSEMA

see related
PULMONARY EMPHYSEMA

Studies of human pulmonary connective tissue. III. Chemical changes in structural proteins with emphysema. Fitzpatrick M. **Am Rev Respir Dis** 1967 Aug;96(2):254–65

Spontaneous cervical and mediastinal emphysema. Parker GS, et al. **Laryngoscope** 1990 Sep;100(9):938–40

[Subcutaneous emphysema in acute diseases of organs of the abdominal cavity (review of the literature)] Ponomarev AA. **Khirurgiia (Mosk)** 1989 Oct;(10):133–6 (43 ref.) (Rus)

BLOOD

Serum antielastase deficiency in tight-skin mice with genetic emphysema. Gardi C, et al. **Exp Mol Pathol** 1990 Feb; 52(1):46–53

CHEMICALLY INDUCED

[Experimental emphysema following intravenous injection

of trypsin] Reichart E, et al. **C R Acad Sci [III]** 1990; 310(13):619–24 (Eng. Abstr.) (Fre)

COMPLICATIONS

Benign pneumatosis intestinalis with subcutaneous emphysema in a liver transplant recipient. Sachse RE, et al. **Am J Gastroenterol** 1990 Jul;85(7):876–9

Neonatal stridor—an unusual presentation of pulmonary air leak. Murali MV, et al. **Indian Pediatr** 1989 Apr;26(4):396–8

Pacemaker malfunction due to subcutaneous emphysema. Giroud D, et al. **Int J Cardiol** 1990 Feb;26(2):234–6

Heterozygous FZ alpha 1 antitrypsin deficiency associated with severe emphysema and hepatic disease: case report and family study. Kelly CP, et al. **Thorax** 1989 Sep; 44(9):758–9

[A case of anaerobic emphysematous cholecystitis with a subhepatic abscess] Dvořák J, et al. **Rozhl Chir** 1990 Mar; 69(3):135–8 (Eng. Abstr.) (Cze)

[Emphysematous pyelonephritis and perinephritis] Guillonneau B, et al. **Ann Urol (Paris)** 1989;23(6):512–6 (Eng. Abstr.) (Fre)

[A case report of emphysematous pyelonephritis] Ito S, et al. **Hinyokika Kiyo** 1990 Feb;36(2):151–5 (18 ref.) (Eng. Abstr.) (Jpn)

DIAGNOSIS

Pneumatometra. Muram D, et al. **Am J Obstet Gynecol** 1990 May;162(5):1282–3

Emphysematous cystitis: a complication of urinary tract infection occurring predominantly in diabetic women. Ankel F, et al. **Ann Emerg Med** 1990 Apr;19(4):404–6

[Post-traumatic subcutaneous emphysema—misdiagnosed as gas gangrene] Jørgensen PS, et al. **Ugeskr Laeger** 1990 Aug 27;152(35):2512–3 (Eng. Abstr.) (Dan)

[Emphysematous pyelonephritis] Heritier P, et al. **J Urol (Paris)** 1990;96(1):60–1 (Eng. Abstr.) (Fre)

[A case of emphysematous pyelonephritis—review of 32 cases in Japanese literature] Hibi H, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1911–4 (31 ref.) (Eng. Abstr.) (Jpn)

DRUG THERAPY

Alpha 1-antitrypsin deficiency and augmentation therapy in emphysema. Stoller JK. **Cleve Clin J Med** 1989 Oct; 56(7):683–9 (20 ref.)

Aerosolization of proteins; the potential for systemic therapy [editorial] [see comments] Bukantz SC. **Hosp Pract [Off]** 1989 Oct 15;24(10):15–6 Comment in: Hosp Pract [Off] 1990 Jan 15;25(1):19.

Recombinant human secretory leukocyte-protease inhibitor: in vitro properties, and amelioration of human neutrophil elastase-induced emphysema and secretory cell metaplasia in the hamster. Lucey EC, et al. **J Lab Clin Med** 1990 Feb;115(2):224–32

EPIDEMIOLOGY

Characteristics of smokers and nonsmokers in Tecumseh, Michigan. II. The distribution of selected physical measurements and physiologic variables and the prevalence of certain diseases in smokers and nonsmokers. Higgins MW, et al. **Am J Epidemiol** 1967 Jul;86(1):60–77

ETIOLOGY

Subcutaneous emphysema associated with laparoscopy [letter] Bard PA, et al. **Anesth Analg** 1990 Jul;71(1):101–2

Emphysema and pneumoconiosis. An experimental study on their interrelationship. Gross P, et al. **Arch Environ Health** 1969 Mar;18(3):340–9

Iatrogenic retropharyngeal emphysema with impending airway obstruction [see comments] Breznick DA, et al. **Arch Otolaryngol Head Neck Surg** 1989 Nov; 115(11):1367–72 Comment in: Arch Otolaryngol Head Neck Surg 1990 Jul;116(7):864.

Cervicofacial emphysema following dental procedures [letter; comment] Bowell G. **Aust Dent J** 1990 Feb;35(1):79 Comment on: Aust Dent J 1989 Oct;34(5):403–6.

Cervicofacial emphysema following dental procedures [see comments] Monsour PA, et al. **Aust Dent J** 1989 Oct; 34(5):403–6 (8 ref.) Comment in: Aust Dent J 1990 Feb;35(1):79.

Subcutaneous emphysema and pneumothorax following endoscopic sphincterotomy. Gya D, et al. **Aust N Z J Surg** 1989 Nov;59(11):900–2

Traumatic transconjunctival orbital emphysema. Stroh EM, et al. **Br J Ophthalmol** 1990 Jun;74(6):380–1

Inherited deficiency of alpha 1-antitrypsin and emphysema. Prospects and promise of research. Bengali ZH. **Cleve Clin J Med** 1989 Oct;56(7):671–4

Retroperitoneal, mediastinal and subcutaneous emphysema as a complication of routine upper gastrointestinal endoscopy. Girardi A, et al. **Endoscopy** 1990 Mar; 22(2):83–4

Subcutaneous emphysema, pneumomediastinum, bilateral pneumothorax and pneumopericardium after laparoscopy [letter] Pascual JB, et al. **Endoscopy** 1990 Jan;22(1):59

Environmental mineral particles correlated with smoking, emphysema and lung cancer. Kalliomäki PL, et al. **Exp Pathol** 1989;37(1–4):103–7

Subcutaneous emphysema as a complication of endoscopic sphincterotomy of the ampulla of Vater. Tam F, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):447–9

Subcutaneous emphysema of the lower extremity of abdominal origin. Jager GJ, et al. **Gastrointest Radiol** 1990 Summer;15(3):253–8

Orbital emphysema causing vision loss after a dental extraction. Buckley MJ, et al. **J Am Dent Assoc** 1990 Apr; 120(4):421–2, 424; discussion 423

Cervicofacial subcutaneous air emphysema after dental extraction [see comments] Reznick JB, et al. **J Am Dent Assoc** 1990 Apr;120(4):417–9 Comment in: J Am Dent Assoc 1990 Jun;120(6):652.

Subcutaneous air emphysema [letter; comment] Salon JM. **J Am Dent Assoc** 1990 Jun;120(6):652 Comment on: J Am Dent Assoc 1990 Apr;120(4):417–9.

Perioperative subcutaneous emphysema: review of differential diagnosis, complications, management, and anesthetic implications. Pan PH. **J Clin Anesth** 1989; 1(6):457–9 (16 ref.)

Subcutaneous and mediastinal emphysema complication of measles [letter] Crosse BA. **J Infect** 1989 Sep;19(2):190

Haemopneumothorax and mediastinal emphysema. A dramatic rescue in the South Atlantic. Kabuubi JB. **J R Army Med Corps** 1990 Feb;136(1):36–9

Compressed air injury to the esophagus: case report. Curci MR, et al. **J Trauma** 1989 Dec;29(12):1713–5 (9 ref.)

Gas-forming infection of the urinary tract: an investigation of fermentation as a mechanism. Yang WH, et al. **J Urol** 1990 May;143(5):960–4

Emphysematous pyelonephritis: case report. Kwong T, et al. **N Z Med J** 1990 May 23;103(890):242–3

Tension subcutaneous emphysema. A case report. van Berkel M, et al. **Neth J Med** 1990 Feb;36(1–2):25–8

[The role of human neutrophil elastase in the development of human emphysema] Ge YM. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1989 Dec; 12(6):347–9, 381 (Eng. Abstr.) (Chi)

[Gaseous phlegmon of the perineum] Massengo R. **Dakar Med** 1988;33(1–4):17–21 (Eng. Abstr.) (Fre)

[Interesting expert evaluation: subcutaneous emphysema manifesting 3 years after blunt trauma of the groin] Heinrich P, et al. **Zentralbl Chir** 1989;114(17):1165–6 (Ger)

[Changes of alveolar macrophage plasminogen activator in rats exposed to nitrogen dioxide] Shima M, et al. **Nippon Eiseigaku Zasshi** 1989 Oct;44(4):894–904 (Eng. Abstr.) (Jpn)

[Generalized subcutaneous emphysema and intestinal amyloidosis (letter)] Selva A, et al. **Rev Esp Enferm Apar Dig** 1989 Nov;76(5):507–8 (Spa)

GENETICS

The alpha 1-antitrypsin gene and emphysema. Perlmutter DH, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L147–62 (206 ref.)

Pulmonary fibroblasts: an in vitro model of emphysema. Regulation of elastin gene expression. Foster JA, et al. **J Biol Chem** 1990 Sep 15;265(26):15544–9

Alpha 1-antitrypsin deficiency, emphysema, and liver disease. Genetic basis and strategies for therapy. Crystal RG. **J Clin Invest** 1990 May;85(5):1343–52 (45 ref.)

Molecular basis of alpha 1-antitrypsin deficiency and emphysema associated with the alpha 1-antitrypsin Mmineral springs allele. Curiel DT, et al. **Mol Cell Biol** 1990 Jan;10(1):47–56

PHYSIOPATHOLOGY

Behavior of morphometric indices in pancreatic elastase-induced emphysema in rats. Eidelman DH, et al. **Lung** 1990;168(3):159–69

PREVENTION & CONTROL

Prevention of emphysema. Importance of early identification. Petty TL. **Postgrad Med** 1989 Nov 1;86(6):115–7, 120–3

A genetic shield to prevent emphysema? [news] Culliton BJ. **Science** 1989 Nov 10;246(4931):750–1

[Experimental study of preventing emphysema with elastase inhibiting agents] Zhou SY. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1990 Apr; 13(2):99–101, 127–8 (Eng. Abstr.) (Chi)

RADIOGRAPHY

Intraspinal air: an unusual manifestation of blunt chest trauma. Scialdone CJ, et al. **Clin Imaging** 1990 Mar; 14(1):59–60

Aerorachia. De Meulder A, et al. **Intensive Care Med** 1990; 16(4):275–6

Subcutaneous emphysema of the lower extremity. A case report. Udell JL, et al. **J Am Podiatr Med Assoc** 1990 Aug; 80(8):446–7

CT demonstration of spinal epidural emphysema after strenuous exercise. Yoshimura T, et al. **J Comput Assist Tomogr** 1990 Mar–Apr;14(2):303–4

[Pneumopericardium with combined emphysema of the skin and mediastinum following tooth extraction] Beese M, et al. **Rontgenblatter** 1990 Jul;43(7):292–4 (Eng. Abstr.) (Ger)

[Emphysematous cystitis] Calahorra Fernández FJ, et al. **Actas Urol Esp** 1989 Sep–Oct;13(5):384–7 (31 ref.) (Eng. Abstr.) (Spa)

RADIONUCLIDE IMAGING

Indium-111 WBC detection of emphysematous gastritis in pancreatitis. Caruana V, et al. **J Nucl Med** 1990 Jan; 31(1):112–4

SURGERY

A simple method of palliation for gross subcutaneous surgical emphysema. Nair KK, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):163–4

[A case of severe emphysematous cholecystitis with extension to the intrahepatic bile duct—trial of percutaneous transhepatic cholecystodrainage] Ohno H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2255–9 (8 ref.) (Jpn)

THERAPY

Iatrogenic retropharyngeal emphysema [letter; comment] Berry YJ. **Arch Otolaryngol Head Neck Surg** 1990 Jul; 116(7):864 Comment on: Arch Otolaryngol Head Neck Surg 1989 Nov;115(11):1367–72.

Submaximal exercise in emphysema and malnutrition at two levels of carbohydrate and fat intake. Goldstein SA, et al. **J Appl Physiol** 1989 Sep;67(3):1048–55

Gene replacement therapy for hereditary emphysema? [news] Skolnick A. **JAMA** 1989 Nov 10;262(18):2499

Oxygen concentrator malfunction [letter] Solanki T, et al. **Lancet** 1990 Aug 25;336(8713):512

[A case of emphysematous pyelonephritis with septic shock recovered by transurethral drainage of pelvis] Okamoto T, et al. **Hinyokika Kiyo** 1989 May;35(5):851–6 (14 ref.) (Eng. Abstr.) (Jpn)

[Pulmonary arterial pressure and the effect of short term oxygen therapy on it in patients qualified for home oxygen treatment] Śliwiński P, et al. **Pneumonol Pol** 1989 Feb; 57(2):127–33 (Eng. Abstr.) (Pol)

EMPHYSEMA, MEDIASTINAL see **MEDIASTINAL EMPHYSEMA**

EMPHYSEMA, PULMONARY see **PULMONARY EMPHYSEMA**

EMPLOYEE ASSISTANCE PROGRAMS (HEALTH CARE) see **OCCUPATIONAL HEALTH SERVICES**

EMPLOYEE DISCIPLINE see under **PERSONNEL MANAGEMENT**

EMPLOYEE GRIEVANCES see under **PERSONNEL MANAGEMENT**

EMPLOYEE HEALTH SERVICES see **OCCUPATIONAL HEALTH SERVICES**

EMPLOYEE INCENTIVE PLANS see under **PERSONNEL MANAGEMENT**

EMPLOYEE ORIENTATION PROGRAMS see **INSERVICE TRAINING**

EMPLOYEE PERFORMANCE APPRAISAL see under **PERSONNEL MANAGEMENT**

EMPLOYEE STRIKES see **STRIKES, EMPLOYEE**

EMPLOYMENT

Responding to AIDS: ten principles for the workplace. Levine C. **AIDS Educ Prev** 1989 Spring;1(1):80–1

Restrictive covenants in professional employment contracts. Roper RR. **AJR Am J Roentgenol** 1989 Nov;153(5):1089–90

Mainstreaming and postsecondary educational and employment status of a rubella cohort. Kasen S, et al. **Am Ann Deaf** 1990 Spring;135(1):22–6

Return to work after percutaneous transluminal coronary angioplasty. Fitzgerald ST, et al. **Am J Cardiol** 1989 Nov 15;64(18):1108–12

Maternal activity and birth weight: a prospective, population-based study. Rabkin CS, et al. **Am J Epidemiol** 1990 Mar;131(3):522–31

AIDS in the work place: the private-sector's challenge [news] McLaughlin SS. **Am J Hosp Pharm** 1990 Jul; 47(7):1457, 1460–4

Smoking patterns by occupation and duration of employment. Levin LI, et al. **Am J Ind Med** 1990;17(6):711–25

AIDS—employment discrimination—Raytheon Co. v. California Fair Employment & Housing Comm'n. **Am J Law Med** 1989;15(4):521–2

Analysis of hours of direct training provided by employment specialists to supported employees. Johnson JR, et al. **Am J Ment Retard** 1990 May;94(6):674–82

Four easy ways to lose a job in nursing. **Am J Nurs** 1990 Jun;90(6):27–8

Midwest jobfocus. Discover Middle America. Clark J. **Am J Nurs** 1989 Oct;89(10):1335, 1337–51

Northeast jobfocus. Northeast network: from Maine to Maryland. Fondiller SH. **Am J Nurs** 1990 Sep;90(9):67, 69–70, 72, passim

Boston jobfocus. Boston: health-care hub. Fondiller SH. **Am J Nurs** 1990 Sep;90(9):85–6, 88, 90, passim

Washington metro jobfocus. Capital ideas. Jacobson E.

Am J Nurs 1990 Aug;90(8):51, 53–60
Carolina jobfocus. Carolina comfort. Jacobson E. **Am J Nurs** 1990 Aug;90(8):61–6
Northeast jobfocus. North by northeast. Nash M. **Am J Nurs** 1990 Jan;90(1):89, 92–94, 96 passim
Southeast jobfocus. The grace and grit of the Southeast. Nash M. **Am J Nurs** 1990 May;90(5):101, 103–4, 106 passim
Western Sunbelt jobfocus. At home in Arizona. Nash M. **Am J Nurs** 1990 Feb;90(2):94–5
Texas jobfocus. Texas—the 'friendship' state. Nash M. **Am J Nurs** 1990 Jun;90(6):89–99
Midwest jobfocus. Grand Central, USA. Nash M. **Am J Nurs** 1990 Mar;90(3):67–8, 70, 72 passim
Florida jobfocus. Florida's bounty. Nash M. **Am J Nurs** 1989 Dec;89(12):1651, 1653–4, 1656
Chicago jobfocus. Big-hearted, broad-shouldered town. Nash M. **Am J Nurs** 1989 Oct;89(10):1352, 1355–8
Arizona jobfocus. Nursing in nature's wonderland. Nash M. **Am J Nurs** 1989 Nov;89(11):1508, 1511–4
Michigan jobfocus. Making it in Michigan. Nash M. **Am J Nurs** 1990 Mar;90(3):86–7, 89
New York jobfocus. Bright lights, big town. Nash M. **Am J Nurs** 1990 Apr;90(4):89, 91–102
California jobfocus. Strike gold in California. Nash M. **Am J Nurs** 1990 Feb;90(2):73–8, 80, 84
Texas jobfocus. Loving the Lone Star life. Nash M. **Am J Nurs** 1989 Nov;89(11):1518, 1521–6
Western Sunbelt jobfocus. Texas: a state of mind. Nash M. **Am J Nurs** 1990 Feb;90(2):91, 93–5
Southeast jobfocus. Southern hospitality. Nash M. **Am J Nurs** 1989 Dec;89(12):1665, 1667–8, 1670–2
Southwest jobfocus. Happy trails to the southwest. Nash M. **Am J Nurs** 1989 Nov;89(11):1489, 1491–1500
Georgia jobfocus. Georgia—land of opportunity. Nash M. **Am J Nurs** 1990 May;90(5):117–8, 120
Washington Metro jobfocus. Capitol attraction. Nash M. **Am J Nurs** 1990 Apr;90(4):107, 109–10
Florida jobfocus. Florida—the sunshine state. Nash M. **Am J Nurs** 1990 May;90(5):131–2
Employment relationships and partnerships among orthodontists. Colson EM. **Am J Orthod** 1966 May; 52(5):324–30
Categorization of housewives as unskilled/unemployed [letter; comment] Baker LS. **Am J Psychiatry** 1990 Jan; 147(1):131–2 Comment on: Am J Psychiatry 1989 Jun;146(6):755–8.
Employment prospects in dentistry. Waldman HB, et al. **Ann Dent** 1989 Winter;48(2):8–11
Ovarian steroids and the capacity to function at home and in the workplace. Sarrel P, et al. **Ann N Y Acad Sci** 1990; 592:156–61; discussion 185–92
Child labor in 1990: prevalence and health hazards. Pollack SH, et al. **Annu Rev Public Health** 1990;11:359–75 (48 ref.)
Maternal employment [editorial] Graham PJ. **Arch Dis Child** 1990 Jun;65(6):565–6
Return to work after stroke: development of a predictive model. Black-Schaffer RM, et al. **Arch Phys Med Rehabil** 1990 Apr;71(5):285–90
Factors influencing return to employment after a burn injury. Bowden ML, et al. **Arch Phys Med Rehabil** 1989 Oct; 70(10):772–4
Breast feeding practices and maternal employment. Monga D, et al. **Asia Oceania J Obstet Gynaecol** 1989 Dec; 15(4):339–42
Laying down the law on AIDS [letter] Barber K, et al. **BMJ** 1990 Jan 6;300(6716):49–50
"Been to Africa". Fiander A, et al. **BMJ** 1989 Dec 23–30; 299(6715):1591–2
Part time doctors? [letter] Wilkinson H. **BMJ** 1989 Aug 19; 299(6697):518
Nutritional status of school age girls working in different handicraft centres of Srinagar City. Raina V, et al. **Br J Ind Med** 1990 Jul;47(7):502–4
The effect of maternal work on fetal growth and duration of pregnancy: a prospective study. Launer LJ, et al. **Br J Obstet Gynaecol** 1990 Jan;97(1):62–70
Drug testing in the workplace. Return to work issues. Biase DV. **Bull N Y Acad Med** 1989 Feb;65(2):208–14
Alcohol and drug abuse in the workplace in broad perspective. Weiss C, et al. **Bull N Y Acad Med** 1989 Feb; 65(2):173–84
Assessment of occupational fitness in the context of human rights legislation. Shephard RJ. **Can J Sport Sci** 1990 Jun; 15(2):89–95
Be wary of wrongful-dismissal suits. Carnerie F. **Can Med Assoc J** 1989 Oct 1;141(7):713
Change in family work status: effects on parent-adolescent decision making. Flanagan CA. **Child Dev** 1990 Feb; 61(1):163–77
The effect of shift work on gastrointestinal (GI) function: a review. Vener KJ, et al. **Chronobiologia** 1989 Oct–Dec; 16(4):421–39 (83 ref.)
Hypoglycemia and employment/licensure. **Diabetes Care** 1990 May;13(5):535
Diabetics need not apply [editorial] Fisher JN. **Diabetes Care** 1989 Oct;12(9):659–60
Employment for people with diabetes in the United Kingdom. Robinson N. **Diabetes Care** 1990 May; 13(5):538–9
Employment spectrum of IDDM. Songer TJ, et al. **Diabetes Care** 1989 Oct;12(9):615–22
Vocational adjustment and general well-being of young adults with IDDM. Tebbi CK, et al. **Diabetes Care** 1990 Feb;13(2):98–103
Employers' attitudes to diabetes [see comments] Robinson N, et al. **Diabetic Med** 1989 Nov;6(8):692–7 Comment in: Diabetic Med 1990 Mar–Apr;7(3):270–1.
Employment problems and diabetes. Robinson N, et al. **Diabetic Med** 1990 Jan;7(1):16–22
Employers' attitudes to diabetes [letter; comment] Waclawski ER. **Diabetic Med** 1990 Mar–Apr;7(3):270–1 Comment on: Diabetic Med 1989 Nov;6(8):692–7.
Mandating health coverage for working Americans. Monheit AC, et al. **Health Aff (Millwood)** 1989 Winter;8(4):22–38
Posthospital convalescence and return to work. Walsh DC, et al. **Health Aff (Millwood)** 1989 Fall;8(3):76–90
Retirement [editorial] Brown M. **Health Care Manage Rev** 1990 Winter;15(1):5–7
Return to work after an acute myocardial infarction: a review. Shanfield SB. **Heart Lung** 1990 Mar;19(2):109–17 (112 ref.)
Hiring former patients [letter] Laird M. **Hosp Community Psychiatry** 1990 Mar;41(3):332–3
Should you hire a lawyer? The jury is still out. Droste T. **Hospitals** 1989 Oct 20;63(20):90
Fired CEOs: how to tackle the job interview. Moran EJ. **Hospitals** 1990 Oct 5;64(19):72
Employment status of leprosy patients with deformities in a suburban slum. Chaturvedi RM, et al. **Indian J Lepr** 1990 Jan–Mar;62(1):109–12
Child labour, adult literacy and employment rates in India. Raju TN. **Indian J Pediatr** 1989 Mar–Apr;56(2):193–200
Workshop on child labour. **Indian Pediatr** 1990 Jan; 27(1):67–71
Child labor. Banerjee SR. **Indian Pediatr** 1990 Jan;27(1):3–6
Employment chances of recently visually impaired, young or middle-aged adults in the Swedish labour market. Jeppsson-Grassman E. **Int Disabil Stud** 1989 Jul–Sep; 11(3):121–6
Use of disablement resettlement officers by patients with musculoskeletal disorders. Storey GO, et al. **Int Disabil Stud** 1989 Jul–Sep;11(3):108–9
A biopsychosocial approach to work life issues. Frankenhaeuser M. **Int J Health Serv** 1989;19(4):747–58 (24 ref.)
Gender, work control, and stress: a theoretical discussion and an empirical test. Hall EM. **Int J Health Serv** 1989; 19(4):725–45
Introduction: the need for new directions in research on work organization and health. Johnson JV, et al. **Int J Health Serv** 1989;19(4):721–4 (21 ref.)
France: AIDS and the workplace [news] **Int Nurs Rev** 1990 May–Jun;37(3):256–7
Stepp v. Review board of the Indiana Employment Security Division. Barkow JM. **Issues Law Med** 1989 Fall;5(2):245–6
20th Bethesda Conference: Insurability and employability of the patient with ischemic heart disease. October 3–4, 1988, Bethsda, Maryland. **J Am Coll Cardiol** 1989 Oct; 14(4):1003–44
Committee report on economic, administrative and legal factors influencing the insurability and employability of patients with ischemic heart disease. Guillette W, et al. **J Am Coll Cardiol** 1989 Oct;14(4):1010–5
Employment, starting salaries, and educational indebtedness of 1989 graduates of US veterinary medical colleges. Wise JK. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1407–8
Special issue on supported employment. Philosophical, legal and scientific basis for vocational integration. **J Appl Behav Anal** 1989 Winter;22(4):351–447
Benefits and costs of supported employment: an analysis of the Illinois Supported Employment Project. Conley RW, et al. **J Appl Behav Anal** 1989 Winter;22(4):441–7
Teaching supported employees with severe mental retardation to solve problems. Hughes C, et al. **J Appl Behav Anal** 1989 Winter;22(4):365–72
The effects of consumer characteristics and type of employment model on individual outcomes in supported employment. Kregel J, et al. **J Appl Behav Anal** 1989 Winter;22(4):407–15
Co-worker implemented job training: the use of coincidental training and quality-control checking on the food preparation skills of trainees with mental retardation. Likins M, et al. **J Appl Behav Anal** 1989 Winter;22(4):381–93
An analysis of the procedural components of supported employment programs associated with employment outcomes. McDonnell J, et al. **J Appl Behav Anal** 1989 Winter;22(4):417–28
A problem-solving approach to social skills training in employment settings with mentally retarded youth. Park HS, et al. **J Appl Behav Anal** 1989 Winter;22(4):373–80
Overview of supported employment. Rusch FR, et al. **J Appl Behav Anal** 1989 Winter;22(4):351–63 (87 ref.)
Supported employment as an intervention package: a preliminary analysis of functional variables. Wacker DP, et al. **J Appl Behav Anal** 1989 Winter;22(4):429–39
Effect of supported employment on the vocational outcomes of persons with traumatic brain injury. Wehman P, et al. **J Appl Behav Anal** 1989 Winter;22(4):395–405
Exclusion of fertile women from the workplace: bad medicine, worse law [editorial] Mattison DR. **J Arkansas Med Soc** 1990 May;86(12):491–2
Group benefit orientation toward older adults at work? A comparison of cohort analytic methods. Ferraro KF. **J Gerontol** 1990 Sep;45(5):S220–7
Treatment of posttraumatic stress disorder after work-related hand trauma. Grunert BK, et al. **J Hand Surg [Am]** 1990 May;15(3):511–5
Relationships between serum triglycerides and gamma-glutamyltransferase among shift and day workers. Knutsson A. **J Intern Med** 1989 Nov;226(5):337–9
Firing for cause. Brooke PS. **J Nurs Adm** 1990 Sep; 20(9):45–50
Fired! Managing the process. Vestal K. **J Nurs Adm** 1990 Jun;20(6):14–6
Administrators' attitudes toward hiring disabled nurses. Winland-Brown JE, et al. **J Nurs Adm** 1990 Apr;20(4):24–7
Preplacement/preemployment physical examinations. **J Occup Med** 1990 Apr;32(4):295, 299
Ergonomic deficiencies: II. Probable causes. Ayoub MA. **J Occup Med** 1990 Feb;32(2):131–6
Suicide in the workplace: incidence, victim characteristics, and external cause of death. Conroy C. **J Occup Med** 1989 Oct;31(10):847–51
Impact of a restrictive work site smoking policy on smoking behavior, attitudes, and norms. Gottlieb NH, et al. **J Occup Med** 1990 Jan;32(1):16–23
AIDS in the workplace. Schneider WJ. **J Occup Med** 1989 Oct;31(10):839–41
Viewpoint '89 examining examinations: pre-employment medical examinations. Duncan KP. **J Soc Occup Med** 1989 Winter;39(4):152–3
Moonlighting [letter; comment] [see comments] Cohen RL. **JAMA** 1990 Feb 23;263(8):1065 Comment on: JAMA 1989 Jul 28;262(4):529–31. Comment in: JAMA 1990 Jul 25;264(4):454.
From the Office of the General Counsel. Genetic screening by employers. Orentlicher D. **JAMA** 1990 Feb 16; 263(7):1005, 1008
Moonlighting: making a buck, compassion, and quality control [letter; comment] Piening RB. **JAMA** 1990 Jul 25; 264(4):454 Comment on: JAMA 1990 Feb 23;263(8):1065.
The competing demands of employment and informal caregiving to disabled elders. Stone RI, et al. **Med Care** 1990 Jun;28(6):513–26
Insight of first-year medical students into their future working conditions. Underwood MJ, et al. **Med Educ** 1990 May;24(3):210–1
The relationship between sickness absence from work and pattern of cigarette smoking [see comments] Batenburg M, et al. **N Z Med J** 1990 Jan 24;103(882):11–3 Comment in: N Z Med J 1990 Mar 28;103(886):135.
Asthma and the employment experience. McClellan VE, et al. **N Z Med J** 1990 Aug 22;103(896):399–401
Rehabilitation in chronic back pain: employment status after four years. Wigley RD, et al. **N Z Med J** 1990 Jan 24; 103(882):9–10
Information skills still in demand [news] Pearson R. **Nature** 1989 Oct 5;341(6241):470
Building a cumulative knowledge base about drugs and the workplace. Gerstein DR, et al. **NIDA Res Monogr** 1989; 91:319–33
Does pre-employment drug use predict on-the-job suitability? McDaniel MA. **NIDA Res Monogr** 1989; 91:151–67
Thoughts on leaving nursing. Green D. **Nurs Outlook** 1990 Jan–Feb;38(1):40
The ideal profession [letter; comment] Johnson C. **Nurs Outlook** 1989 Nov–Dec;37(6):257 Comment on: Nurs Outlook 1989 May–Jun;37(3):115.
Professional autonomy v. "at will" employee status. Murphy EK. **Nurs Outlook** 1990 Sep–Oct;38(5):248
Factors related to maternal employment status following the premature birth of an infant. Youngblut JM, et al. **Nurs Res** 1990 Jul–Aug;39(4):237–40
District 12: three major issues. Summers JL. **Ohio Med** 1990 May;86(5):399–400
Determinants of return-to-work among low back pain patients. Gallagher RM, et al. **Pain** 1989 Oct;39(1):55–67
Neuropsychological test performance and employment status in patients referred for assessment. Heinrichs RW. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):899–902
Respiratory virus infections and performance. Smith AP. **Philos Trans R Soc Lond [Biol]** 1990 Apr 12; 327(1241):519–28
Competition/cooperation in worksite smoking cessation using nicotine gum. Maheu MM, et al. **Prev Med** 1989 Nov; 18(6):867–76
Age-related differences in employee absenteeism: a meta-analysis. Martocchio JJ. **Psychol Aging** 1989 Dec; 4(4):409–14
Strategies for dealing with AIDS disputes in the workplace. Stein RE. **Radiol Technol** 1989 Sep–Oct;61(1):49–56
Age discrimination in earnings in a dual-economy market. Mueller CW, et al. **Res Aging** 1989 Dec;11(4):492–507
Maternal employment following childbirth. Tulman L, et al. **Res Nurs Health** 1990 Jun;13(3):181–8
The impact on work ability of ileal conduit urinary diversion. Nordström GM, et al. **Scand J Soc Med** 1990 Jun; 18(2):115–24
Private social welfare expenditures, 1972–87. Kerns WL, et al. **Soc Secur Bull** 1989 Nov;52(11):18–26
Disability adjudication and the insurance medical director. Battista ME. **Trans Assoc Life Insur Med Dir Am** 1990; 73:73–86
The first postgraduate job [letter] Coe A. **Vet Rec** 1989 Dec 9;125(24):608–9

Protect our jobs' [letter] Lloyd-Evans M. **Vet Rec** 1990 Jul 7;127(1):23-4

A causal analysis of employment and health in midlife women. Adelmann PK, et al. **Women Health** 1990; 16(1):5-20

The federal law of age discrimination in the U.S.A. Finkin MW. **Z Gerontol** 1990 Mar-Apr;23(2):97-101

[Adverse effects of the work process in relation to pregnancy] Mareš P, et al. **Cesk Gynekol** 1989 Jul;54(6):401-6 (Eng. Abstr.) (Cze)

[The value of employment medical examinations] de Kort WL. **Ned Tijdschr Geneeskd** 1990 Aug 18;134(33):1589-93 (Dut)

[Pregnancy and work: apropos of sick leave] Spyckerelle Y, et al. **Rev Fr Gynecol Obstet** 1989 Nov;84(11):743-6 (Eng. Abstr.) (Fre)

[Employment of patients after keratoplasty] Vymazal M, et al. **Acta Univ Palacki Olomuc Fac Med** 1989;122:287-90 (Ger)

[10-year follow-up of occupational integration of 50 patients with complete paraplegia] Wahle H. **Rehabilitation (Stuttg)** 1990 May;29(2):112-20 (Eng. Abstr.) (Ger)

[Integration possibilities of graduates of the Vocational Retraining Center Heidelberg with mental handicaps] Wöhrl HG. **Rehabilitation (Stuttg)** 1990 May;29(2):84-92 (Eng. Abstr.) (Ger)

[New positions for physicians in Norway 1979-88. A study of advertised vacant positions] Kristiansen IS. **Tidsskr Nor Laegeforen** 1990 Jun 30;110(17):2249-52 (Eng. Abstr.) (Nor)

[Bolivia: the work situation of medical doctors graduating from the medical school of La Paz and Cochabamba between 1981 and 1985] Fernández O, et al. **Educ Med Salud** 1989 Oct-Dec;23(4):391-401 (Spa)

PSYCHOLOGY

High school student employment in social context: adolescents' perceptions of the role of part-time work. Green DL. **Adolescence** 1990 Summer;25(98):425-34

Motherhood, employment and the development of depression. A replication of a finding? Brown GW, et al. **Br J Psychiatry** 1990 Feb;156:169-79

A program for caregivers in the workplace. Ingersoll-Dayton B, et al. **Gerontologist** 1990 Feb; 30(1):126-30

Issues of work, workers, and therapy. Schore L. **New Dir Ment Health Serv** 1990 Summer;(46):93-100

Differences in social support among retirees and workers: findings from the Normative Aging Study. Bossé R, et al. **Psychol Aging** 1990 Mar;5(1):41-7

Occupational factors in sickness certification. Tellnes G, et al. **Scand J Prim Health Care** 1990 Mar;8(1):37-44

[Attitude to work of patients after myocardial infarction, not accepting medical recommendations] Winnicka A. **Pol Tyg Lek** 1989 May 15;44(20):453-5 (Eng. Abstr.) (Pol)

STATISTICS & NUMERICAL DATA

Pharmacists' compensation and work patterns: overview of 1988 national survey. Schondelmeyer SW, et al. **Am Pharm** 1989 Nov;NS29(11):25-30

Men in nursing: their fields of employment, preferred fields of practice, and role strain. Egeland JW, et al. **Health Serv Res** 1989 Dec;24(5):693-707

CEO firings: the medical staff's key role. Johnsson J. **Hospitals** 1990 Feb 20;64(4):70

Employment after severe head injury: do the Manpower Services Commission schemes help? Johnson R. **Injury** 1989 Jan;20(1):5-9

Follow-up of Hadassah Nursing School's first seven graduate classes. Ziv L, et al. **J Prof Nurs** 1990 Jul-Aug;6(4):229-34

Ratings of managerial skill requirements: comparison of age- and job-related factors. Avolio BJ, et al. **Psychol Aging** 1989 Dec;4(4):464-70

Health and other characteristics of employed women and homemakers in Tecumseh, 1959-1978. II. Prevalence of respiratory and cardiovascular symptoms and illnesses, mortality rates and physical and physiological measurements. Ebi-Kryston KL, et al. **Women Health** 1990; 16(2):23-39

Health and other characteristics of employed women and homemakers in Tecumseh, 1959-1978. I. Demographic characteristics, smoking habits, alcohol consumption, and pregnancy outcomes and conditions. Ebi-Kryston KL, et al. **Women Health** 1990;16(2):5-21

She ate not the bread of idleness: exhaustion is related to domestic and salaried working conditions among 539 Québec hospital workers. Tierney D, et al. **Women Health** 1990;16(1):21-42

TRENDS

West Coast jobfocus. The western connection--nursing on the move. Fondiller S. **Am J Nurs** 1990 Jul;90(7):55, 57-8, 60

Rocky Mountain jobfocus. Rollin' with the Rockies. Fondiller SH. **Am J Nurs** 1990 Jul;90(7):63-5

Employment of occupational therapists in nontraditional settings. Royeen CB. **Am J Occup Ther** 1990 Feb; 44(2):172-3

Trends shaping U.S. society 1990-2005. Jarratt J. **ASHA** 1989 Dec;31(12):33-5

Partial and flexible retirement: the Swedish system. Wise LR. **Gerontologist** 1990 Jun;30(3):355-61

Employment of 1989 male and female graduates of US veterinary medical colleges. Wise JK. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1770-1

Changing work force will require commitment to health practices. Polakoff PL. **Occup Health Saf** 1990 Jan;59(1):39, 47

EMPLOYMENT TERMINATION see **EMPLOYMENT**

EMPTY SELLA SYNDROME

[Case report on the empty sella syndrome] Medić M, et al. **Med Pregl** 1989;42(3-4):129-32 (Eng. Abstr.) (Scr)

CEREBROSPINAL FLUID

Cerebrospinal fluid pressure and prolactin in empty sella syndrome. Maira G, et al. **Can J Neurol Sci** 1990 Feb; 17(1):92-4

COMPLICATIONS

Co-existence of empty sella syndrome and low tension glaucoma. Rouhiainen H, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):367-70

Transsphenoidal chiasmopexy for long standing visual failure in the secondary empty sella syndrome. Hamlyn PJ, et al. **Br J Neurosurg** 1988;2(2):277-9

Diabetes insipidus associated with empty sella: report of two cases [letter] Osella G, et al. **J Endocrinol Invest** 1990 Apr; 13(4):351-2

Scrotal hair in infant with empty sella turcica [letter; comment] Rotenstein D, et al. **J Pediatr** 1990 Mar; 116(3):493-4 Comment on: J Pediatr 1989 Jun;114(6):999-1001.

Relationship between chronic raised intracranial pressure and empty sella presenting hormonal disturbances. Kulali A, et al. **Neurol Res** 1990 Jun;12(2):99-102

[Spontaneous rhinorrhea of a rare etiology (apropos of empty sella turcica)] Virte M, et al. **Ann Otolaryngol Chir Cervicofac** 1990;107(1):43-6 (Eng. Abstr.) (Fre)

[Three patients with hypopituitarism accompanied by primary empty sella presenting mental symptoms] Yokoyama T, et al. **Rinsho Shinkeigaku** 1989 Aug; 29(8):1023-7 (Eng. Abstr.) (Jpn)

[Empty sella turcica associated with Noonan's syndrome (letter)] Estopiñán V, et al. **Med Clin (Barc)** 1990 Apr 14; 94(14):557 (Spa)

[Cushing's syndrome and empty sella turcica (letter)] Webb SM, et al. **Med Clin (Barc)** 1989 Oct 28;93(13):517-8 (Spa)

[Empty sella turcica associated with diabetes insipidus. Presentation of a new case (letter)] de Pablos Velasco PL, et al. **Rev Clin Esp** 1990 Mar;186(5):242-3 (Spa)

[Primary hypothyroidism associated with changes in the sella turcica and the hypophyseal function. Description of 5 cases] Muñoz Torres M, et al. **Rev Clin Esp** 1990 Apr; 186(6):274-6 (Eng. Abstr.) (Spa)

DIAGNOSIS

Can empty sella syndrome be mistaken for a progressive form of nonarteritic ischemic optic neuropathy? [letter] Mutlukan E, et al. **Arch Ophthalmol** 1990 Aug; 108(8):1066-7

[Primary empty sella syndrome (ESS). Clinical observations on 20 cases] Bianconcini G, et al. **Minerva Med** 1990 May; 81(5):355-62 (Eng. Abstr.) (Ita)

[Clinical variants of empty sella turcica syndrome in children] Kuberger MB, et al. **Pediatriia** 1989;(11):88-91 (Rus)

[Empty sella syndrome in benign intracranial hypertension] Deev AS, et al. **Sov Med** 1989;(9):93-6 (Rus)

ETIOLOGY

Hypopituitarism and empty sella due to endocarditis. McAlpine JK, et al. **J R Soc Med** 1989 Dec;82(12):769-70

Pituitary adenoma results in the empty sella syndrome. Nomura K, et al. **Jpn J Med** 1989 Sep-Oct;28(5):625-7

PHYSIOPATHOLOGY

Results of dynamic endocrine testing of hypothalamic pituitary function in patients with a primary "empty" sella syndrome. Buchfelder M, et al. **Horm Metab Res** 1989 Oct; 21(10):573-6

RADIOGRAPHY

Clinical spectrum of primary empty sella turcica. Murphy MA, et al. **Aust N Z J Surg** 1988 Jun;58(6):475-80

EMPYEMA

COMPLICATIONS

Yellow nail syndrome associated with empyema. Lodge JP, et al. **Clin Exp Dermatol** 1989 Jul;14(4):328-9

Emergency treatment of rupture of the proximal anastomosis of an infected thoracoabdominal aortic graft with bleeding into a postpneumonectomy empyema cavity. Larsson S, et al. **Eur J Cardiothorac Surg** 1987;1(1):59-62

Mediastinitis and bilateral thoracic empyemas complicating adult epiglottitis. Chong WH, et al. **Thorax** 1990 Jun; 45(6):491-2

[Empyema--a rare type of pulmonary disease in rheumatoid arthritis] Alušík S, et al. **Vnitr Lek** 1989 Oct;35(10):1017-9 (Eng. Abstr.) (Cze)

[Non-Hodgkin's lymphoma of the pleural cavity developing from long-standing pyothorax] Aozasa K, et al. **Rinsho Ketsueki** 1990 May;31(5):547-53 (Eng. Abstr.) (Jpn)

[Three cases of malignant lymphoma developing from chronic empyema wall] Kamesaki H, et al. **Rinsho Ketsueki** 1990 Apr;31(4):511-5 (Eng. Abstr.) (Jpn)

[Primary myobronchoplasty after pneumonectomy for diffuse gangrene of the lung in anaerobic empyema] Grigor'ev EG, et al. **Grud Serdechnososudistaia Khir** 1990;(3):75-6 (Rus)

DIAGNOSIS

The clinical spectrum of Staphylococcus aureus pulmonary infection. Kaye MG, et al. **Chest** 1990 Apr;97(4):788-92

Diagnosis and management of infection in the pleural space. LaForce FM. **Curr Clin Top Infect Dis** 1987;8:1-10 (25 ref.)

Review of one hundred cases of empyema thoracis. Gupta SK, et al. **Indian J Chest Dis Allied Sci** 1989 Jan-Mar; 31(1):15-20 (17 ref.)

Massive empyema in a five-week-old baby: a case study. Spicer PE. **P N G Med J** 1990 Mar;33(1):55-7

[A case of conservatively treated epidural abscess of the vertebral canal] Gocek W, et al. **Wiad Lek** 1989 Jul 1-15; 42(13-15):902-5 (Pol)

DRUG THERAPY

Treatment of sinus empyema in adults. A coordinated Nordic multicenter trial of cefixime vs. cefaclor. Carenfelt C, et al. **Acta Otolaryngol (Stockh)** 1990 Jul-Aug; 110(1-2):128-35

Immediate drainage is not required for all patients with complicated parapneumonic effusions. Berger HA, et al. **Chest** 1990 Mar;97(3):731-5

Intrapleural streptokinase in management of parapneumonic effusions. Report of series and review of literature. Mitchell ME, et al. **J Fla Med Assoc** 1989 Dec;76(12):1019-22 (18 ref.)

[Treatment of infection of the lower respiratory tract. Experience with a new quinolinone: pefloxacin] Collimedaglia P, et al. **Clin Ter** 1989 Dec 31;131(6):391-5 (Eng. Abstr.) (Ita)

[Use of electrochemically activated 0.8% potassium chloride solutions in the treatment of empyema and parietal abscesses of the lung] Shraer TI, et al. **Grudn Khir** 1989 Jul-Aug;(4):64-8 (Eng. Abstr.) (Rus)

ETIOLOGY

Group F streptococcal empyema from aspiration of a grass inflorescence. Baethge BA, et al. **Ann Thorac Surg** 1990 Feb;49(2):319-20

Pleuropulmonary infections due to nontyphoid strains of Salmonella. Aguado JM, et al. **Arch Intern Med** 1990 Jan; 150(1):54-6

Proteus vulgaris empyema and increased pleural fluid pH [letter] Isenstein D, et al. **Chest** 1990 Feb;97(2):511

Pseudomonas aeruginosa empyema in an adult with cystic fibrosis. Mestitz H, et al. **Chest** 1990 Aug;98(2):485-7

Colo-pleural fistula. Olesen LL, et al. **Eur Respir J** 1989 Sep;2(8):792-3

Treatment of post pneumonectomy pleural empyema by open window thoracostomy. Postmus PE, et al. **Eur Respir J** 1989 Oct;2(9):853-5

Lactobacilli and pleuropulmonary infection [letter] Querol Borras JM, et al. **Eur Respir J** 1989 Nov;2(10):1021

Spontaneous bacterial empyema in cirrhotic patients: analysis of eleven cases. Xiol X, et al. **Hepatology** 1990 Mar; 11(3):365-70

Late onset post-pneumonectomy empyema. Shastri KA, et al. **N Y State J Med** 1989 Oct;89(10):582-3

Necrotizing pneumonitis and empyema caused by Streptococcus cremoris from milk. Torre D, et al. **Scand J Infect Dis** 1990;22(2):221-2

[Analysis of postoperative thoracic empyema] Ueda H, et al. **Kyobu Geka** 1989 Oct;42(11):892-5; discussion 895-9 (Eng. Abstr.) (Jpn)

[Pneumonia and empyema in a patient with common variable immunodeficiency] Kuś J, et al. **Pneumonol Pol** 1989 Jan; 57(1):50-5 (Eng. Abstr.) (Pol)

[Pleural complications of pneumonia in children] Szlachetka R, et al. **Wiad Lek** 1989 Jul 1-15;42(13-15):858-61 (Eng. Abstr.) (Pol)

HISTORY

Gotthard Bülau and closed water-seal drainage for empyema, 1875-1891. Meyer JA. **Ann Thorac Surg** 1989 Oct; 48(4):597-9

The healing hand [editorial] Ferguson MK. **Chest** 1990 Jan; 97(1):4-5

Evarts A. Graham in World War I: The Empyema Commission and Service in the American Expeditionary Forces. Olch PD. **J Hist Med Allied Sci** 1989 Oct;

44(4):430–46

IMMUNOLOGY

[Immunologic reactivity of young children with severe forms of suppurative diseases of the lungs and pleura and the methods of its correction] Kushch NL, et al. **Vestn Khir** 1989 Jul;143(7):74–5 **(Rus)**

MICROBIOLOGY

Spinal intrathecal empyema due to Actinomyces israelii. Alday R, et al. **Acta Neurochir (Wien)** 1989;101(3–4):159–62

Microbiology of empyema in children and adolescents. Brook I. **Pediatrics** 1990 May;85(5):722–6

Clinical manifestations of Kingella kingae infections: case report and review. Morrison VA, et al. **Rev Infect Dis** 1989 Sep–Oct;11(5):776–82 (65 ref.)

Clinical study on bacteria detected in the upper and lower respiratory tracts in patients with sinobronchial syndrome. Matsunaga T, et al. **Rhinology** 1989 Sep;27(3):169–78

Necrotising pneumonia and empyema due to Clostridium perfringens complicating pulmonary embolus. Bashir Y, et al. **Thorax** 1990 Jan;45(1):72–3

A case of necrobacillosis. Chippindale AJ, et al. **Thorax** 1990 Jan;45(1):74–5

[Clinical significance of Streptococcus milleri isolated from various suppurative lesions] Nagata K. **Kansenshogaku Zasshi** 1990 Apr;64(4):444–54 (Eng. Abstr.) **(Jpn)**

[Types of microflora in acute suppurative-destructive diseases of the lungs and pleura] Danilenko MV, et al. **Klin Khir** 1989;(10):5–7 (Eng. Abstr.) **(Rus)**

[Group A streptococcal infection caused pleural empyema in children] Alm J, et al. **Lakartidningen** 1990 Jun 20; 87(25):2184–5 **(Swe)**

MORTALITY

[Life expectancy and disability following pleural empyema] Zeidler D. **Versicherungsmedizin** 1990 Apr 1;42(2):45–9 (12 ref.) (Eng. Abstr.) **(Ger)**

PATHOLOGY

The histology of experimental pleural injury with tetracycline, empyema, and carrageenan. Strange C, et al. **Exp Mol Pathol** 1989 Dec;51(3):205–19

PHYSIOPATHOLOGY

Empyema necessitatis. Haddad CJ, et al. **Am Fam Physician** 1989 Oct;40(4):149–52

PREVENTION & CONTROL

[Prognosis and prevention of postoperative empyema after radical operations on the lungs] Kurguzov OP, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):44–7 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

CT follow-up of empyemas: pleural peels resolve after percutaneous catheter drainage. Neff CC, et al. **Radiology** 1990 Jul;176(1):195–7

Parietal pleural changes in empyema: appearances at CT. Waite RJ, et al. **Radiology** 1990 Apr;175(1):145–50

[Dyspnea and cavitated pulmonary infiltration in polytraumatized male] Alvarez Sanz C, et al. **Rev Clin Esp** 1990 Mar;186(5):238–40 **(Spa)**

RADIOTHERAPY

[Laser sanitation of pleural empyema in patients with cancer of the lungs] Zyrianov BN, et al. **Vestn Khir** 1989 Jul; 143(7):43–5 (Eng. Abstr.) **(Rus)**

SURGERY

Treatment of postpneumonectomy empyema with or without bronchopleural fistula. Van Raemdonck D, et al. **Acta Chir Belg** 1990 Mar–Apr;90(2):59–66

Management of empyema in children. Golladay ES, et al. **Am J Surg** 1989 Dec;158(6):618–21

Microvascular free muscle flaps for chronic empyema with bronchopleural fistula when the major local muscles have been divided—one-stage operation with primary wound closure. Chen HC, et al. **Ann Plast Surg** 1990 Jun; 24(6):510–6

Management of empyema thoracis [see comments] Ali I, et al. **Ann Thorac Surg** 1990 Sep;50(3):355–9 Comment in: Ann Thorac Surg 1990 Sep;50(3):343–4.

Role of lung decortication in symptomatic empyemas in children. Gustafson RA, et al. **Ann Thorac Surg** 1990 Jun; 49(6):940–6; discussion 946–7

Empyema thoracis [editorial; comment] Miller JI. **Ann Thorac Surg** 1990 Sep;50(3):343–4 Comment on: Ann Thorac Surg 1990 Sep;50(3):355–9.

One-stage operation for chronic empyema [letter; comment] Pate JW. **Ann Thorac Surg** 1990 Feb;49(2):342 Comment on: Ann Thorac Surg 1989 Jun;47(6):848–52.

Empyema thoracis [letter; comment] Ribet ME. **Ann Thorac Surg** 1990 Mar;49(3):510–1 Comment on: Ann Thorac Surg 1989 Aug;48(2):306–8.

Use of pedicled omental flap in treatment of empyema. Shirakusa T, et al. **Ann Thorac Surg** 1990 Sep;50(3):420–4

Surgical treatment of pulmonary aspergilloma and Aspergillus empyema. Shirakusa T, et al. **Ann Thorac Surg** 1989 Dec;48(6):779–82

Empyema thoracis in Nigerians: experience with a policy of conservative operative management. Odelowo EO, et al. **Int Surg** 1989 Oct–Dec;74(4):247–52

Postpneumonectomy empyema. The role of intrathoracic muscle transposition. Pairolero PC, et al. **J Thorac Cardiovasc Surg** 1990 Jun;99(6):958–66; discussion 966–8

Empyema thoracis: a review of a 4 1/2 year experience of cases requiring surgical treatment. Forty J, et al. **Respir Med** 1990 Mar;84(2):147–53

Empyema thoracis: what is the role of surgery? Wells FC. **Respir Med** 1990 Mar;84(2):97–9 (5 ref.)

[Surgical results in secondary nonspecific pleural empyema] Dakov I. **Khirurgiia (Sofiia)** 1989;42(4):1–5 (Eng. Abstr.) **(Bul)**

[Treatment of 94 cases of chronic empyema using a modified technique of decortication of the lung] Zhao GX. **Chung Hua Wai Ko Tsa Chih** 1989 Apr;27(4):236–7, 255 (Eng. Abstr.) **(Chi)**

[Therapy of secondarily infected repaired thoracoplasty by transposition of a musculus latissimus dorsi flap. A case report] Bubb C, et al. **Chirurg** 1989 Aug;60(8):559–61 **(Ger)**

[Decortication: indication and morbidity—a retrospective analysis] Buchmann P, et al. **Schweiz Rundsch Med Prax** 1990 Mar 20;79(12):352–5 (Eng. Abstr.) **(Ger)**

[Problems in treating chronic empyema with fistula] Wada H, et al. **Bull Chest Dis Res Inst Kyoto Univ** 1988 Mar; 21(1–2):33–6 (Eng. Abstr.) **(Jpn)**

[A study on selection of operative technique for chronic empyema based on findings obtained from reoperated cases] Imura Y, et al. **Kekkaku** 1989 Sep;64(9):545–9 (Eng. Abstr.) **(Jpn)**

[A case of omentopexy for bronchial fistula and pyothorax following the right completion pneumonectomy with combined resection of pericardium, diaphragm and chest wall] Hoshi E, et al. **Kyobu Geka** 1989 Dec;42(13):1114–7 (Eng. Abstr.) **(Jpn)**

[Successful use of an omental pedicled flap for obliterating empyema associated with a large bronchial fistula] Tsubota N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):499–502 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of chronic empyema and postoperative pulmonary function] Iioka S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1990 Feb; 28(2):246–53 (Eng. Abstr.) **(Jpn)**

[Characteristics of the use of radiation from various types of lasers in the surgical treatment of patients with pleural empyema] Naumov VN, et al. **Grudn Khir** 1989 Sep–Oct; (5):53–7 (Eng. Abstr.) **(Rus)**

[Plastic surgery of pleural empyema cavity using the latissimus dorsi muscle on a vascular pedicle] Tsybyrné KA, et al. **Grudn Khir** 1989 Nov–Dec;(6):59–61 (Eng. Abstr.) **(Rus)**

[Successful cure of a patient with acute destructive pneumonia and empyema with bronchial fistula after upper lobectomy] Danilovskiĭ IuP, et al. **Probl Tuberk** 1990; (4):71–2 **(Rus)**

[Ways of increasing the effectiveness of surgical treatment of patients with chronic empyema] Naumov Vn, et al. **Probl Tuberk** 1990;(4):44–9 (Eng. Abstr.) **(Rus)**

THERAPY

The management of empyema thoracis by thoracoscopy and irrigation. Lema L, et al. **Cent Afr J Med** 1990 Jan; 36(1):20–2

Pasteurella multocida empyema: successful treatment with open thoracostomy. Bohner BJ, et al. **J La State Med Soc** 1990 Jan;142(1):27–9

Postpneumonic empyema in childhood: selecting appropriate therapy [letter; comment] Pianosi P. **J Pediatr Surg** 1990 May;25(5):584–5 Comment on: J Pediatr Surg 1989 Jul;24(7):659–63; discussion 663–4.

[The therapy of pleural empyema] Thermann M. **Dtsch Med Wochenschr** 1990 Apr 27;115(17):667–9 (3 ref.) **(Ger)**

EMPYEMA, GALLBLADDER see **CHOLECYSTITIS**

EMPYEMA, PLEURAL see **EMPYEMA**

EMPYEMA, SUBDURAL see **SUBDURAL EMPYEMA**

EMPYEMA, TUBERCULOUS see under **TUBERCULOSIS, PLEURAL**

EMULSIFYING AGENTS see **EXCIPIENTS**

EMULSIONS

Bicontinuous microemulsions as media for electrochemical studies. Iwunze MO, et al. **Anal Chem** 1990 Mar 15; 62(6):644–9

Microemulsion structure and its effect on electrochemical reactions. Mackay RA, et al. **Anal Chem** 1990 May 15; 62(10):1084–90

Beta-hydroxysteroid dehydrogenase: activity in microemulsion and extraction from Pseudomonas testosteroni cells with microemulsion. Lee KM, et al. **Biochimie** 1990 Apr;72(4):285–9

Studies on the release of drugs from O/W emulsion ointments using mathematical interpretations. Part 4: Kinetic analysis of drug release from thick layers. Bialik W. **Pharmazie** 1990 Feb;45(2):119–20

Investigation of drug-containing multiple phase emulsions. Erös I, et al. **Pharmazie** 1990 Jun;45(6):419–22

[Microemulsions and their potential pharmaceutical application] Keipert S, et al. **Pharmazie** 1989 Jul; 44(7):433–44 (258 ref.) **(Ger)**

ADVERSE EFFECTS

Polyamine sensitization in offshore workers handling drilling muds. Ormerod AD, et al. **Contact Dermatitis** 1989 Nov; 21(5):326–9

ANALYSIS

Freeze substitution technique for identifying liposomes incorporated in emulsion and gel preparations. Singh M, et al. **J Microencapsul** 1990 Jan–Mar;7(1):77–84

EN 1639A see **NALTREXONE**

ENABLING FACTORS see **CAUSALITY**

ENALAPRIL

Possible interaction between SPPS and enalapril. McKenzie AJ. **Anaesth Intensive Care** 1990 Feb;18(1):124–6

ADMINISTRATION & DOSAGE

Spironolactone and altizide used in combination with enalapril: twenty-four-hour ambulatory recording of blood pressure. Poncelet P, et al. **Am J Cardiol** 1990 Jun 19; 65(23):33K–35K

Baroreceptor reflex enhancement by chronic intracerebroventricular infusion of enalapril in normotensive rats. Buñag RD, et al. **Hypertension** 1990 Mar;15(3):284–90

Evaluation of the efficacy and safety of enalapril plus hydrochlorothiazide plus methyldopa vs standard triple therapy in the treatment of moderate to severe hypertension: results from a multicentre study. Leonetti G, et al. **J Hum Hypertens** 1990 Feb;4(1):5–11

Antihypertensive contribution of sodium depletion and the sympathetic axis during chronic angiotensin II converting enzyme inhibition. Uehlinger DE, et al. **J Hypertens** 1989 Nov;7(11):901–7

Abrupt change from a beta-adrenoceptor blocking drug to enalapril in hypertension. Lilja M, et al. **J Intern Med** 1989 Sep;226(3):143–8

[Low-dose enalapril as additional medication in severe chronic heart failure] Brilla C, et al. **Dtsch Med Wochenschr** 1990 Feb 23;115(8):283–9 (Eng. Abstr.) **(Ger)**

[Nicardipine, alone or in combination with enalapril, in the therapy of arterial hypertension secondary to chronic nephropathy] Pecci G, et al. **Clin Ter** 1989 Sep 30; 130(6):327–32 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Enalapril induced angioedema. Gianos ME, et al. **Am J Emerg Med** 1990 Mar;8(2):124–6

Enalapril-associated acute renal failure in renal transplants: possible role of cyclosporine. Murray BM, et al. **Am J Kidney Dis** 1990 Jul;16(1):66–9

Oligohydramnios sequence and renal tubular malformation associated with maternal enalapril use. Cunniff C, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):187–9

Interaction between enalapril and propofol [letter] Littler C, et al. **Anaesth Intensive Care** 1989 Nov;17(4):514–5

Postoperative hypotension associated with enalapril. Russell RM, et al. **Anaesthesia** 1989 Oct;44(10):837–8

Severe angioedema after long-term use of an angiotensin-converting enzyme inhibitor [letter] Chin HL, et al. **Ann Intern Med** 1990 Feb 15;112(4):312–3

Enalapril and vulvovaginal pruritis [letter] Heckerling PS. **Ann Intern Med** 1990 Jun 1;112(11):879–80

Enalapril-induced cough. Gibson GR. **Arch Intern Med** 1989 Dec;149(12):2701–3

Early renal artery occlusion after enalapril in atheromatous renal artery stenosis [see comments] Main J, et al. **BMJ** 1989 Aug 5;299(6695):394 Comment in: BMJ 1989 Sep 16;299(6701):736.

Fatal angioedema associated with enalapril. Giannoccaro PJ, et al. **Can J Cardiol** 1989 Oct;5(7):335–6

Psoriasis related to angiotensin-converting enzyme inhibitors. Wolf R, et al. **Dermatologica** 1990;181(1):51–3

Captopril versus enalapril: cough versus pancreatitis [letter] Pedro-Botet J, et al. **DICP** 1990 Apr;24(4):438–9

Mortality associated with captopril and enalapril: a report from the DHSS Hypertension Care Computing Project. Palmer AJ, et al. **J Hypertens** 1990 Jun;8(6):521–4

Enalapril-related cholestatic jaundice. Todd P, et al. **J R Soc Med** 1990 Apr;83(4):271–2

Incontinence after use of enalapril [letter] Casanova JE. **J Urol** 1990 Jun;143(6):1237–8

Enalapril-induced antinuclear antibodies [letter] Schwartz D, et al. **Lancet** 1990 Jul 21;336(8708):187

Zinc metabolism in patients treated with captopril versus enalapril. Golik A, et al. **Metabolism** 1990 Jul;39(7):665–7

Angioedema related to angiotensin-converting enzyme inhibitors. Seidman MD, et al. **Otolaryngol Head Neck Surg** 1990 Jun;102(6):727–31

ACE inhibitors and lithium [letter; comment] Ahmad S. **Postgrad Med** 1990 May 1;87(6):31 Comment on: Postgrad Med 1990 Jan;87(1):223–6, 231–2, 235–43.

[Irreversible renal failure during treatment with angiotensin I converting enzyme inhibitor in bilateral renal stenosis] Kamper AL. **Ugeskr Laeger** 1989 Nov 6;151(45):2984–5 (Eng. Abstr.) **(Dan)**

[Heat stroke in elderly patients (letter)] Pfitzenmeyer P, et al. **Presse Med** 1990 May 5;19(18):871–2 **(Fre)**

[Pancreatitis and hepatitis in a patient treated with enalapril maleate. A case report] Martin T, et al. **Therapie** 1989 Nov–Dec;44(6):449–50 **(Fre)**

[Modification of blood coagulation by antihypertensive therapy? Effect of enalapril and hydrochlorothiazide on blood coagulation parameters in patients with essential hypertension] Wichmann C, et al. **Fortschr Med** 1989 Aug 20;107(24):521–4 (Eng. Abstr.) **(Ger)**

[Angioneurotic edema of the tongue, induced by administration of ACE inhibitors] Zech J, et al. **HNO** 1990 Apr;38(4):143–4 (Eng. Abstr.) **(Ger)**

[Angioedema caused by enalapril (Reniten)] Huwyler T, et al. **Schweiz Med Wochenschr** 1989 Sep 16;119(37):1253–6 (Eng. Abstr.) **(Ger)**

[Cough associated with captopril and enalapril] Katz A, et al. **Harefuah** 1989 Jun 15;116(12):632–4 (Eng. Abstr.) **(Heb)**

[Syncope and transient coronary ischemia after the first dose of enalapril (letter)] Ortega González G. **Med Clin (Barc)** 1989 Oct 28;93(13):516–7 **(Spa)**

ANALOGS & DERIVATIVES

Drugs recently released in Belgium. Lisinopril—ganciclovir. Harvengt C. **Acta Clin Belg** 1989;44(5):354–7

Comparison of long-term hemodynamic effects at rest and during exercise of lisinopril plus sodium restriction versus hydrochlorothiazide in essential hypertension. Omvik P, et al. **Am J Cardiol** 1990 Feb 1;65(5):331–8

Effects of diltiazem or lisinopril on massive proteinuria associated with diabetes mellitus. Bakris GL. **Ann Intern Med** 1990 May 1;112(9):707–8

Lisinopril dose-response relationship in essential hypertension. Gomez HJ, et al. **Br J Clin Pharmacol** 1989 Oct;28(4):415–20

Enalapril and lisinopril in the treatment of mild to moderate essential hypertension. Espinel CH, et al. **Clin Ther** 1990 Mar–Apr;12(2):181–90

Clinical experience with lisinopril in congestive heart failure. Focus on the older patient. Giles TD. **Drugs** 1990;39 Suppl 2:17–22 (18 ref.)

Lisinopril in elderly patients with hypertension. Long term effects on renal and metabolic function. Laher MS. **Drugs** 1990;39 Suppl 2:55–63

Hypotensive effects of angiotensin II analogues and angiotensin converting enzyme inhibitors in water-deprived Brattleboro rats. Tomlinson KC, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):562–8

ACE inhibition and pressor responsiveness to norepinephrine in hypertensive patients. Malini PL, et al. **J Clin Pharmacol** 1990 May;30(5):422–4

Lisinopril and enalapril in hypertension: a comparative study using ambulatory monitoring. Conway J, et al. **J Hum Hypertens** 1990 Jun;4(3):235–9

Comparison of the acute and chronic antihypertensive effect of two once-daily doses of spirapril by invasive twenty-four-hour ambulatory blood pressure monitoring. van den Meiracker AH, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S302–3

Intestinal absorption mechanism of dipeptide angiotensin converting enzyme inhibitors of the lysyl-proline type: lisinopril and SQ 29,852. Friedman DI, et al. **J Pharm Sci** 1989 Dec;78(12):995–8

Lisinopril overdose [letter] Dawson AH, et al. **Lancet** 1990 Feb 24;335(8687):487–8

Lisinopril: a new ACE inhibitor for the treatment of hypertension and congestive heart failure. Chodoff L. **Mt Sinai J Med** 1990 May;57(3):169–71

Lisinopril in hypertensive patients with renal function impairment. de Jong PE, et al. **Nephron** 1990;55 Suppl 1:43–8

[A comparative study of the effects of lisinopril and quinapril administered once a day in essential hypertension] De Cesaris R, et al. **Minerva Med** 1990 Jul–Aug;81(7–8):541–6 (Eng. Abstr.) **(Ita)**

METABOLISM

The excretion of enalapril and enalaprilat in human breast milk. Redman CW, et al. **Eur J Clin Pharmacol** 1990; 38(1):99

The interaction between indomethacin and captopril or enalapril in healthy volunteers. Koopmans PP, et al. **J Intern Med** 1989 Sep;226(3):139–42

[Role of prostaglandins in the antihypertensive effect of the converting enzyme inhibitor, enalapril] Espinoza F, et al. **Rev Invest Clin** 1989 Oct–Dec;41(4):351–60 (Eng. Abstr.) **(Spa)**

PHARMACOKINETICS

The pharmacokinetics of enalapril in patients with compensated liver cirrhosis. Baba T, et al. **Br J Clin Pharmacol** 1990 Jun;29(6):766–9

Systemic and coronary haemodynamics and pharmacodynamics of enalapril and enalaprilat in congestive heart failure. Chatterjee K, et al. **Drugs** 1990; 39 Suppl 4:29–40; discussion 41–2 (43 ref.)

Absorption of oral enalapril in germ-free and microbially-associated rats. Pelkonen K, et al. **Eur J Drug Metab Pharmacokinet** 1989 Apr–Jun; 14(2):101–5

Kinetic-dynamic relations and individual responses to enalapril. Donnelly R, et al. **Hypertension** 1990 Mar; 15(3):301–9

Renal handling of enalapril and enalaprilat: studies in the isolated red blood cell–perfused rat kidney. de Lannoy IA, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1211–22

Passive and carrier-mediated intestinal absorption components of two angiotensin converting enzyme (ACE) inhibitor prodrugs in rats: enalapril and fosinopril. Friedman DI, et al. **Pharm Res** 1989 Dec;6(12):1043–7

[Therapeutic drug monitoring of inhibitors of renin–angiotensin system] Saito I, et al. **Nippon Rinsho** 1990 Feb;48 Suppl:1146–8 **(Jpn)**

PHARMACOLOGY

Decreased angiotensin II receptors in subfornical organ of spontaneously hypertensive rats after chronic antihypertensive treatment with enalapril. Nazarali AJ, et al. **Am J Hypertens** 1990 Jan;3(1):59–61

Effects of chronic volume expansion and enalapril on chronic cyclosporine nephropathy. Gillum DM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):F934–9

Differing actions of dietary protein and enalapril on renal function and proteinuria. Hutchison FN, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F126–32

Effects of inhibitors of the renin–angiotensin system on water intake after insulin administration. Lopez-Sela P, et al. **Appetite** 1989 Oct;13(2):143–54

Effect of chronic enalapril treatment on enzymes responsible for the catabolism of angiotensin I and formation of angiotensin II. Drummer OH, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):513–8

Renal and adrenal resistance against atrial natriuretic peptide in congestive heart failure: effect of angiotensin I–converting–enzyme inhibition. Wambach G, et al. **Cardiology** 1989;76(6):418–27

Effect of enalapril treatment on progression of the nephrotoxic serum nephritis model of renal failure in the rat. Jackson B, et al. **Clin Exp Pharmacol Physiol** 1988 Feb; 15(2):131–6

Intrapatient comparison of acute hemodynamic, hormonal, and natriuretic responses to captopril versus enalapril in liver cirrhosis. Ohnishi A, et al. **Clin Pharmacol Ther** 1990 Jul;48(1):67–75

The effects of enalapril on blood pressure, renal hemodynamics, and renal function. Weir MR. **Clin Ther** 1989 Sep–Oct;11(5):685–700 (78 ref.)

Effects of enalapril on human sperm motility. Ratnasooriya WD, et al. **Contraception** 1990 Feb;41(2):213–9

Angiotensin converting enzyme inhibition, parasympathetic activity and exercise in essential hypertension. Fariello R, et al. **Drugs Exp Clin Res** 1989;15(11–12):571–6

Different results in cardiopulmonary exercise tests after long-term treatment with felodipine and enalapril in patients with congestive heart failure due to ischaemic heart disease. Dunselman PH, et al. **Eur Heart J** 1990 Mar; 11(3):200–6

The effect of ACE inhibition on myocardial energy metabolism. Schultheiss HP, et al. **Eur Heart J** 1990 Apr; 11 Suppl B:116–22

The effects of captopril and enalapril on tissue levels of various elements in spontaneously hypertensive rats. Allain P, et al. **Fundam Clin Pharmacol** 1989;3(4):329–35

Enalapril can prevent vascular amplifier development in spontaneously hypertensive rats. Adams MA, et al. **Hypertension** 1990 Sep;16(3):252–60

Effect of converting enzyme inhibition on renin synthesis and secretion in mice. Barrett GL, et al. **Hypertension** 1989 Oct;14(4):385–95

Influence of the renin–angiotensin system on human forearm blood flow. Stadeager C, et al. **J Appl Physiol** 1990 Feb; 68(2):527–32

Effects of angiotensin blockade on the splanchnic circulation in normotensive humans. Stadeager C, et al. **J Appl Physiol** 1989 Aug;67(2):786–91

Enalapril decreases plasma prolactin levels in hypertensive patients. Lombardi C, et al. **J Biol Regul Homeost Agents** 1989 Jul–Sep;3(3):128–30

Hypotensive effects of angiotensin II analogues and angiotensin converting enzyme inhibitors in water-deprived Brattleboro rats. Tomlinson KC, et al. **J Cardiovasc Pharmacol** 1990 Apr;15(4):562–8

Effect of angiotensin-converting enzyme inhibition on pituitary hormone responses to insulin-induced hypoglycemia in humans. Winer LM, et al. **J Clin Endocrinol Metab** 1990 Jul;71(1):256–9

Angiotensin converting enzyme inhibition ameliorates glomerular filtration of macromolecules and water and lessens glomerular injury in the rat. Remuzzi A, et al. **J Clin Invest** 1990 Feb;85(2):541–9

The effects of enalapril on urinary protein excretion in patients with idiopathic membranous nephropathy. Sauter ER, et al. **J Clin Pharmacol** 1990 Feb;30(2):155–8

Potassium homeostasis during angiotensin-converting enzyme inhibition with enalapril. Scandling JD, et al. **J Clin Pharmacol** 1989 Oct;29(10):916–21

First-dose effects of enalapril and atenolol upon blood pressure and cerebral blood flow in patients with mild hypertension on diuretic therapy. Kamlow F, et al. **J Hum Hypertens** 1990 Jun;4(3):281–5

Granular juxtaglomerular cells and prorenin synthesis in mice treated with enalapril. Berka JL, et al. **J Hypertens** 1990 Mar;8(3):229–38

Effect of enalapril on aortic smooth muscle cell polyploidy in the spontaneously hypertensive rat. Black MJ, et al. **J Hypertens** 1989 Dec;7(12):997–1003

Effect of enalapril or the thromboxane receptor antagonist, daltroban, in rats with subtotal renal ablation. Brooks DP, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):119–23

Pharmacokinetic and pharmacodynamic actions of enalapril in humans: effect of probenecid pretreatment. Noormohamed FH, et al. **J Pharmacol Exp Ther** 1990 Apr; 253(1):362–8

Enalapril and low protein reverse chronic puromycin aminonucleoside nephropathy. Marinides GN, et al. **Kidney Int** 1990 Feb;37(2):749–57 (37 ref.)

Effect of dietary protein intake and angiotensin converting enzyme inhibition in Heymann nephritis. Kaysen GA, et al. **Kidney Int Suppl** 1989 Nov;27:S154–62

Converting enzyme inhibition by enalapril in experimental heart failure. Holtz J, et al. **Nephron** 1990;55 Suppl 1:73–6

Depressor mechanism of enalapril in rats made hypertensive by norepinephrine or vasopressin. Yasujima M, et al. **Nephron** 1990;55 Suppl 1:81–4

Matching to sample, blood pressure and hormonal effects of chronic enalapril in baboons. Turkkan JS, et al. **Pharmacol Biochem Behav** 1989 Dec;34(4):685–90

Effect of captopril or enalapril on renal prostaglandin E2. Katayama S, et al. **Prostaglandins** 1989 Oct;38(4):401–11

Effect of captopril and enalapril medication on the serum ACE test for sarcoidosis. Lieberman J, et al. **Sarcoidosis** 1989 Sep;6(2):118–23

Angiotensin-converting enzyme inhibition or aldosterone antagonism reduces cyclosporine nephrotoxicity in the rat. Thomson AW, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1242–3

[Evaluation of the cardiac and peripheral vascular effects of the single-dose administration of enalapril and captopril in essential arterial hypertension (letter)] Longhini C, et al. **Cardiologia** 1989 Sep;34(9):813 **(Ita)**

THERAPEUTIC USE

The effects of enalapril on hypertension and quality of life. A large multicenter study in Belgium. de Lame PA, et al. **Acta Cardiol** 1989;44(4):289–302

Therapeutic regime of enalapril maleate in Japan. Saruta T. **Adv Exp Med Biol** 1989;247A:55–61

Role of the endogenous angiotensin II in the antihypertensive effect of MK 421 in rats made hypertensive by norepinephrine or vasopressin. Yasujima M, et al. **Adv Exp Med Biol** 1989;247A:35–8

Studies of left ventricular dysfunction (SOLVD)—rationale, design and methods: two trials that evaluate the effect of enalapril in patients with reduced ejection fraction. **Am J Cardiol** 1990 Aug 1;66(3):315–22

Effects of nifedipine SR and enalapril on office, home and ambulatory blood pressure in "white-coat" systemic hypertension. Ashida T, et al. **Am J Cardiol** 1990 Aug 15; 66(4):498–501

Spironolactone and altizide versus converting enzyme inhibitor (enalapril). Grünfeld JP, et al. **Am J Cardiol** 1990 Jun 19;65(23):28K–32K

Effect on the myocardial energy metabolism of angiotensin-converting enzyme inhibition in chronic heart failure. Schultheiss HP. **Am J Cardiol** 1990 Apr 3; 65(14):74G–81G

Control of hypertension and reversal of renal failure in undifferentiated connective tissue disease by enalapril [letter; comment] Levin ML, et al. **Arch Intern Med** 1990 Apr;150(4):916, 918 Comment on: Arch Intern Med 1989 Mar;149(3):582–5.

Comparison of enalapril and captopril in the management of self-induced water intoxication. Sebastian CS, et al. **Biol Psychiatry** 1990 Apr 1;27(7):787–90

Enalapril and metoprolol in diabetic nephropathy [letter] **BMJ** 1990 May 26;300(6736):1399

Contrasting effects of enalapril and metoprolol on proteinuria in diabetic nephropathy [published erratum appears in BMJ 1990 May 5;300(6733):1170] Björck S, et al. **BMJ** 1990 Apr 7;300(6729):904–7

Enalapril and metoprolol in diabetic nephropathy. Sawicki P, et al. **BMJ** 1990 Jun 2;300(6737):1466

Short term haemodynamic effects of converting enzyme inhibition before and after eating in patients with moderate heart failure caused by dilated cardiomyopathy: a double blind study [see comments] Herrlin B, et al. **Br Heart J** 1990 Jan;63(1):26–31 Comment in: Br Heart J 1990 Jan;63(1):5–6.

Incidence of sudden cardiac death associated with coronary artery occlusion in dogs with hypertension and left ventricular hypertrophy is reduced by chronic beta-adrenergic blockade. Dellsperger KC, et al. **Circulation** 1990 Sep;82(3):941–50

Enalapril and lisinopril in the treatment of mild to moderate

essential hypertension. Espinel CH, et al. **Clin Ther** 1990 Mar–Apr;12(2):181–90

Efficacy and tolerability of enalapril and sustained–release verapamil in older patients with mild to moderate essential hypertension. Weir MR, et al. **Clin Ther** 1990 Mar–Apr; 12(2):139–48

Effects of enalapril on the cardiovascular response to treadmill exercise in patients with mild to moderate systemic hypertension. Yamauchi K, et al. **Clin Ther** 1989 Nov–Dec;11(6):755–61

Enalapril retards glomerular basement membrane thickening and albuminuria in the diabetic rat: are these effects specific for enalapril? [letter; comment] Baba T, et al. **Diabetologia** 1989 Nov;32(11):829 Comment on: Diabetologia 1989 May;32(5):326–8.

Enalapril therapy in type 1 (insulin–dependent) diabetic children [letter; comment] Greene A. **Diabetologia** 1990 Feb;33(2):126 Comment on: Diabetologia 1989 Apr;32(4):255–60.

Symposium on Enalapril: ACE inhibitors in the treatment of cardiovascular disease in the older patient. San Juan, Puerto Rico, 13–18 May, 1989. Proceedings. **Drugs** 1990; 39 Suppl 2:1–82

Symposium on enalapril: new trends in the treatment of congestive heart failure. Turku, Finland, 28–29 October, 1988. Proceedings. **Drugs** 1990;39 Suppl 4:1–54

Effects of enalapril on renal parameters in patients with primary glomerulopathies associated with chronic renal failure. Ferder LF, et al. **Drugs** 1990;39 Suppl 2:40–6

Comparative efficacy and safety of enalapril and sustained–release nifedipine in patients with mild to moderate hypertension. The Enalapril vs Nifedipine French Study Group. Gueret P, et al. **Drugs** 1990;39 Suppl 2:67–72

A cooperative study to evaluate the efficacy and safety of enalapril in Puerto Rican patients with mild to moderate hypertension. Medina–Ruiz A, et al. **Drugs** 1990;39 Suppl 2:77–82

Effect of enalapril on mortality in congestive heart failure. Follow–up survival data from the CONSENSUS trial. Swedberg K, et al. **Drugs** 1990;39 Suppl 4:49–52; discussion 53–4

Angiotensin–converting enzyme (ACE) inhibition. Therapeutic option for diabetic hypertensive patients. Zanella MT, et al. **Drugs** 1990;39 Suppl 2:33–9

Renal uptake of dimercaptosuccinic acid and glomerular filtration rate in chronic nephropathy at angiotensin converting enzyme inhibition. Kamper AL, et al. **Eur J Nucl Med** 1990;16(2):85–8

Beneficial hemodynamic effects of milrinone and enalapril in conscious rats with healed myocardial infarction. DeFelice A, et al. **Eur J Pharmacol** 1989 Aug 22; 167(2):211–20

Treatment of hypertension by enalapril and hydrochlorothiazide separately and together: a multicenter study [see comments] Rosenthal T, et al. **Isr J Med Sci** 1990 Feb;26(2):63–6 Comment in: Isr J Med Sci 1990 Feb;26(2):61–2.

Enalapril in the treatment of congestive heart failure. Giles T. **J Cardiovasc Pharmacol** 1990;15 Suppl 3:S6–10

Enalapril: benefit–to–risk ratio in hypertensive patients. Gomez HJ, et al. **J Cardiovasc Pharmacol** 1990;15 Suppl 3:S26–9 (62 ref.)

Patient compliance and angiotensin converting enzyme inhibitors in hypertension. Juncos LI. **J Cardiovasc Pharmacol** 1990;15 Suppl 3:S22–5

Lisinopril and enalapril in hypertension: a comparative study using ambulatory monitoring. Conway J, et al. **J Hum Hypertens** 1990 Jun;4(3):235–9

Antihypertensive therapy and quality of life: a comparison of atenolol, captopril, enalapril and propranolol. Steiner SS, et al. **J Hum Hypertens** 1990 Jun;4(3):217–25

Prediction of response to antihypertensive therapy with enalapril and nifedipine. Meredith PA, et al. **J Hypertens Suppl** 1989 Dec;7(6):S252–3

Angiotensin converting enzyme inhibition in normotensive type II diabetics with persistent mild proteinuria. Stornello M, et al. **J Hypertens Suppl** 1989 Dec;7(6):S314–5

High serum erythropoietin levels are normalized during treatment of congestive heart failure with enalapril. Fyhrquist F, et al. **J Intern Med** 1989 Oct;226(4):257–60

Long–term enalapril and verapamil in rats with reduced renal mass. Brunner FP, et al. **Kidney Int** 1989 Dec;36(6):969–77

Effect of converting enzyme inhibition on the course of adriamycin–induced nephropathy. Scholey JW, et al. **Kidney Int** 1989 Nov;36(5):816–22

Effect of dietary protein restriction and angiotensin converting enzyme inhibition on protein metabolism in the nephrotic syndrome. Don BR, et al. **Kidney Int Suppl** 1989 Nov;27:S163–7

Enalapril and trigeminal neuralgia [letter] Ngata HM. **N Z Med J** 1990 May 23;103(890):249

Interaction of enalapril with sodium restriction, diuretics, and slow–channel calcium–blocking drugs. Anderson A, et al. **Nephron** 1990;55 Suppl 1:70–2

Enalapril improved renal function and proteinuria in chronic glomerulopathies. Ferder LF, et al. **Nephron** 1990;55 Suppl 1:90–5

Evaluation of the effect–duration of once–daily enalapril compared with once–daily captopril. Germanò G, et al. **Nephron** 1990;55 Suppl 1:65–9

Cardiac function and cerebral blood flow in elderly hypertensive patients. Landahl S, et al. **Nephron** 1990;55 Suppl 1:98

Enalapril in the long–term treatment of elderly hypertensives. Mondal BK, et al. **Nephron** 1990;55 Suppl 1:96–7

Efficacy of long–term antihypertensive therapy with enalapril. Rüddel H, et al. **Nephron** 1990;55 Suppl 1:77–80

Long–term renal effects of enalapril therapy in patients with renal insufficiency. Smith RD, et al. **Nephron** 1990;55 Suppl 1:49–58 (79 ref.)

Beneficial effects of angiotensin–converting enzyme inhibitor on renal function and glucose homeostasis in diabetics with hypertension. Ueda Y, et al. **Nephron** 1990;55 Suppl 1:85–9

Comparative effects of captopril and enalapril on the progression of chronic renal disease in partially nephrectomized rats. Fettman MJ, et al. **Res Commun Chem Pathol Pharmacol** 1989 Aug; 65(2):131–46

Initial effect of enalapril on kidney function in patients with moderate to severe chronic nephropathy. Kamper AL, et al. **Scand J Urol Nephrol** 1990;24(1):69–73

Reduction of albuminuria after angiotensin converting enzyme inhibition in various renal disorders. Kurkus J, et al. **Scand J Urol Nephrol** 1990;24(1):63–8

[Hemodynamic study of a single oral dose of enalapril in patients with heart failure] Zhi G, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Sep;28(9):534–6, 572 (Eng. Abstr.) (Chi)

[Vascular changes in essential hypertension after treatment with enalapril] Dušek J, et al. **Vnitr Lek** 1989 Nov; 35(11):1079–86 (Eng. Abstr.) (Cze)

[Relation between echocardiographic indicators and beta 2–adrenergic receptors in essential hypertension during treatment with enalapril] Přecechtělová M, et al. **Vnitr Lek** 1989 Nov;35(11):1087–93 (Eng. Abstr.) (Cze)

[Evaluation of the effectiveness of a cicletanine–enalapril combination in hypertensive patients] Safar M, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:119–24 (Eng. Abstr.) (Fre)

[A randomized double–blind therapeutic trial of enalapril versus timed–release nifedipine in mild to moderate essential hypertension] Artigou JY, et al. **Presse Med** 1990 Jan 6–13;19(1):13–6 (Eng. Abstr.) (Fre)

[Comparison of enalapril and captopril in the treatment of chronic heart failure] Tjon–A–Meeuw L, et al. **Z Kardiol** 1990 Jun;79(6):429–35 (Eng. Abstr.) (Ger)

[Influence of chronically–administered enalapril on isotonic and isometric exercise in patients with moderate grade hypertension] De Biase L, et al. **Cardiologia** 1989 Oct; 34(10):871–8 (Eng. Abstr.) (Ita)

[Short– and long–term effects of enalapril on the left ventricular function in patients with congestive heart insufficiency] Traina M, et al. **Cardiologia** 1990 Jan; 35(1):55–60 (Eng. Abstr.) (Ita)

[Comparison of the efficacy of captopril and enalapril in single doses in the treatment of arterial hypertension. Evaluation by means of non–invasive ambulatory monitoring] Valori C, et al. **Clin Ter** 1989 Jul 15; 130(1):37–44 (Eng. Abstr.) (Ita)

[Comparison of the efficacy of monotherapy with a beta–blocker, a diuretic, and ACE inhibitors in the control of blood pressure during stress] Wu SC, et al. **Minerva Cardioangiol** 1989 Jul–Aug;37(7–8):323–31 (Eng. Abstr.) (Ita)

[Effect of treatment with enalapril maleate on the levels of circulating catecholamines, beta endorphins, prostaglandins, and concentration of sodium in erythrocytes in patients with essential hypertension] Chodakowska J, et al. **Pol Tyg Lek** 1989 Mar 20–27; 44(12–13):297–300 (Eng. Abstr.) (Pol)

[Arteriosclerosis obliterans. Treatment with angiotensin–converting enzyme inhibitors] Orea A, et al. **Arch Inst Cardiol Mex** 1990 Mar–Apr;60(2):183–90 (Eng. Abstr.) (Spa)

TOXICITY

Maternotoxicity and fetotoxicity of an angiotensin–converting enzyme inhibitor, enalapril, in rabbits. Minsker DH, et al. **Fundam Appl Toxicol** 1990 Apr; 14(3):461–70

ENALAPRIL MALEATE see **ENALAPRIL**

ENALAPRILAT

ADMINISTRATION & DOSAGE

Intraoperative administration of the intravenous angiotensin–converting enzyme inhibitor, enalaprilat, in a patient with congestive heart failure. Acampora GA, et al. **Anesth Analg** 1989 Dec;69(6):833–9

ANALOGS & DERIVATIVES

Angiotensin converting enzyme inhibitors. 10. Aryl sulfonamide substituted N–[1–carboxy–3–phenylpropyl]–L–alanyl–L–proline derivatives as novel antihypertensives. Mencel JJ, et al. **J Med Chem** 1990 Jun;33(6):1606–15

DIAGNOSTIC USE

Enalaprilat–enhanced renography in a rat model of renovascular hypertension. Kopecky RT, et al. **J Nucl Med** 1990 Apr;31(4):501–7

METABOLISM

Transfer of enalaprilat across rat liver cell membranes is barrier limited. Schwab AJ, et al. **Am J Physiol** 1990 Mar; 258(3 Pt 1):G461–75

PHARMACOKINETICS

Systemic and coronary haemodynamics and pharmacodynamics of enalapril and enalaprilat in congestive heart failure. Chatterjee K, et al. **Drugs** 1990; 39 Suppl 4:29–40; discussion 41–2 (43 ref.)

Renal handling of enalapril and enalaprilat: studies in the isolated red blood cell–perfused rat kidney. de Lannoy IA, et al. **J Pharmacol Exp Ther** 1989 Dec;251(3):1211–22

PHARMACOLOGY

Angiotensin converting enzyme inhibitors, captopril and enalaprilat, augment bradykinin–induced prostacyclin synthesis in cultured rat vascular smooth muscle cells. Takeuchi K, et al. **Adv Exp Med Biol** 1989;247B:489–94

Captopril and enalaprilat do not scavenge the superoxide anion. Kukreja RC, et al. **Am J Cardiol** 1990 May 22; 65(19):241–27I

Intravenous enalaprilat and autonomic reflexes. The effects of enalaprilat on the cardiovascular responses to postural changes and tracheal intubation. Murphy JD, et al. **Anaesthesia** 1989 Oct;44(10):816–21

The effect of captopril or enalaprilic acid on the Na appetite of Na–deplete rats. Weisinger RS, et al. **Clin Exp Pharmacol Physiol** 1988 Jan;15(1):55–65

Coronary vasodilation induced by intracoronary enalaprilat: an argument for the role of a local renin–angiotensin system in patients with dilated cardiomyopathy. Foult JM, et al. **Eur Heart J** 1989 Nov;10 Suppl F:97–100

Effect of enalaprilic acid on cardiac contractile response to beta–adrenergic stimulation. Gomez Llambi H, et al. **Hypertension** 1990 Feb;15(2 Suppl):I51–4

Atrial natriuretic factor modulates proximal glomerulotubular balance in anesthetized rats. Zhuo JL, et al. **Hypertension** 1989 Dec;14(6):666–73

Enalaprilat effects renin–angiotensin and adrenergic response to induced hypotension in the rabbit. Stead SW, et al. **J Cardiovasc Pharmacol** 1990 Jul;16(1):154–62

Control of arterial pressure and renal function during chronic renin inhibition. Hall JE, et al. **J Hypertens** 1990 Apr; 8(4):351–9

The haemodynamic effects of two angiotensin converting enzyme inhibitors, enalaprilat and zofenoprilat, in the rat: evidence for the involvement of bradykinin. Tio RA, et al. **J Hypertens Suppl** 1989 Dec;7(6):S296–7

Prostaglandins mediate the ocular hypotensive action of the angiotensin converting enzyme inhibitor MK–422 (enalaprilat) in African green monkeys. Lotti VJ, et al. **J Ocul Pharmacol** 1990 Spring;6(1):1–7

Bradykinin–induced contractions of canine prostate and bladder: effect of angiotensin–converting enzyme inhibition. Steidle CP, et al. **J Urol** 1990 Aug;144(2 Pt 1):390–2

THERAPEUTIC USE

Effect of acute angiotensin converting enzyme inhibition on left ventricular filling in patients with congestive heart failure. Relation to right ventricular volumes. Konstam MA, et al. **Circulation** 1990 Feb;81(2 Suppl):III115–22

ENALAPRILIC ACID see **ENALAPRILAT**

ENALLYNYMALUM see **METHOHEXITAL**

ENAMEL see **DENTAL ENAMEL**

ENAMEL ORGAN see under **TOOTH GERM**

ENBUCRILATE

Synthetic polymer tissue adhesive in the surgery of ascending aortic dissection. Report of two cases. Griffin S, et al. **J Cardiovasc Surg (Torino)** 1990 Mar–Apr;31(2):239–41

Cyanoacrylate fixed silicone sheet in medial blowout fracture repair. Seiff SR. **Ophthalmic Surg** 1989 Sep;20(9):674–6

ADMINISTRATION & DOSAGE

Use of histoacryl tissue adhesive to manage an avulsed tooth. McCabe MJ. **BMJ** 1990 Jul 7;301(6742):20–1

Tobramycin–adhesive in preventing and treating PTFE vascular graft infections. Shenk JS, et al. **J Surg Res** 1989 Dec;47(6):487–92

[Pleurodesis using an acrylate glue in the treatment of therapy–resistant symptomatic pneumothorax] Bölcskei PL, et al. **Pneumologie** 1990 Feb;44 Suppl 1:293–4 (Eng. Abstr.) (Ger)

THERAPEUTIC USE

Temporary tarsorraphy with cyanoacrylate adhesive for seventh–nerve palsy [letter] Diamond JP. **Lancet** 1990 Apr 28;335(8696):1039

A clinical trial of tissue adhesive (histoacryl) in skin closure of groin wounds. Keng TM, et al. **Med J Malaysia** 1989 Jun;44(2):122–8

Successful closure of bronchopleural fistula with adhesive tissue. Case report. Eng J, et al.

Scand J Thorac Cardiovasc Surg 1990;24(2):157–9

TOXICITY

Changes in auditory function associated with 2–cyano–butyl–acrylate adhesive implanted in the middle ear of experimental animals. Zikk D, et al. Laryngoscope 1990 Feb;100(2 Pt 1):179–82

ENCEPHALITIS

Viral encephalitis. Whitley RJ. N Engl J Med 1990 Jul 26; 323(4):242–50 (139 ref.)

Successful pregnancy with isolated herpes simplex virus encephalitis: case report and review of the literature. Frieden FJ, et al. Obstet Gynecol 1990 Mar;75(3 Pt 2):511–3

Central nervous system manifestations of parainfluenza virus type 3 infections in childhood. McCarthy VP, et al. Pediatr Neurol 1990 May–Jun;6(3):197–201

[Encephalitis with viral replication. Clinical aspects, prognosis and treatment] Tardieu M, et al. Ann Pediatr (Paris) 1990 May;37(5):295–8 (6 ref.) (Eng. Abstr.) (Fre)

[An effective treatment for a severe disease: herpetic encephalitis] Alberca R, et al. Neurologia 1986 Jan–Feb; 1(1):23–7 (29 ref.) (Spa)

CEREBROSPINAL FLUID

Beta–2–microglobulin in the cerebrospinal fluid of patients with infections of the central nervous system. Petersiund NA, et al. Acta Neurol Scand 1989 Dec;80(6):579–83

CSF glutamic oxalacetic transaminase levels in CNS infections. Agrawal M, et al. Indian Pediatr 1989 Dec; 26(12):1245–8

A sensitive ELISA system for the rapid detection of virus specific IgM antibodies in the cerebrospinal fluid. Sharief MK, et al. J Immunol Methods 1990 Jun 12;130(1):19–24

Increased endotoxin and interleukin–1 beta concentrations in cerebrospinal fluid of infants with coliform meningitis and ventriculitis associated with intraventricular gentamicin therapy. Mustafa MM, et al. J Infect Dis 1989 Nov;160(5):891–5

Rapid detection of herpes–simplex–virus DNA in cerebrospinal fluid of patients with herpes simplex encephalitis. Rowley AH, et al. Lancet 1990 Feb 24; 335(8687):440–1

Central–nervous–system methyl–group metabolism in children with neurological complications of HIV infection [see comments] Surtees R, et al. Lancet 1990 Mar 17; 335(8690):619–21 Comment in: Lancet 1990 May 12;335(8698):1167.

Obstacle to early diagnosis of herpes simplex encephalitis via CSF [letter] Thomas EE, et al. Lancet 1990 Jul 14; 336(8707):113

[Eosinophilic granulocytes in the cerebrospinal fluid] Kölmel HW, et al. Fortschr Neurol Psychiatr 1990 May;58(5):191–9 (93 ref.) (Eng. Abstr.) (Ger)

[Cerebrospinal fluid analysis in toxoplasma encephalitis in AIDS patients (letter)] Sanchís–Bayarri Vaillant V, et al. Rev Clin Esp 1989 Nov;185(8):426–7 (Spa)

CHEMICALLY INDUCED

A pertussis vaccine myth dies [editorial] Fulginiti VA. Am J Dis Child 1990 Aug;144(8):860–1

Mumps, measles, and rubella vaccination and encephalitis [letter; comment] Begg NT, et al. BMJ 1989 Oct 14; 299(6705):978 Comment on: BMJ 1989 Sep 9;299(6700):660.

An investigation into the early stages of the inflammatory response following ibotenic acid–induced neuronal degeneration. Coffey PJ, et al. Neuroscience 1990; 35(1):121–32

COMPLICATIONS

Cryptococcal meningitis and toxoplasma encephalitis in an AIDS patient. Catania S, et al. Acta Neurol (Napoli) 1990 Feb;12(1):82–4

Clinical and electroencephalographic studies of postencephalitic epilepsy. Yoshioka M, et al. Acta Paediatr Jpn Overseas Ed 1989 Aug;31(4):480–3

Propranolol in the treatment of postencephalitic psychosis [letter] Abraham G, et al. Can J Psychiatry 1990 Feb; 35(1):104–5

Cerebral toxoplasmosis in the acquired immune deficiency syndrome. Carrazana EJ, et al. Clin Neurol Neurosurg 1989; 91(4):291–301

Diffuse necrotizing retinochoroiditis in a child with AIDS and toxoplasmic encephalitis. Bottoni F, et al. Graefes Arch Clin Exp Ophthalmol 1990;228(1):36–9

Opsoclonus in mumps and poliovirus type 3 encephalitides: a report of 2 cases. Ruangkit C, et al. J Med Assoc Thai 1989 Jul;72(7):417–20

Psychiatric disorders in the encephalitic form of multiple sclerosis. Felgenhauer K. J Neurol 1990 Feb;237(1):11–8

Cerebral venous thrombosis and dual primary infection with human immunodeficiency virus and cytomegalovirus. Meyohas MC, et al. J Neurol Neurosurg Psychiatry 1989 Aug;52(8):1010–1

Subacute dementia with necrotising encephalitis selectively involving the fornix and splenium. Retrograde development of Alzheimer's neurofibrillar tangles in the subiculum. Yamamoto T, et al. J Neurol Sci 1990 May; 96(2–3):159–72

Human immunodeficiency virus (HIV) leukoencephalopathy and the microcirculation. Smith TW, et al. J Neuropathol Exp Neurol 1990 Jul;49(4):357–70

Limbic encephalitis associated with thymoma. Ingenito GG, et al. Neurology 1990 Feb;40(2):382

Resolution of acute renal failure in toxoplasmic encephalitis despite continuance of sulfadiazine. Oster S, et al. Rev Infect Dis 1990 Jul–Aug;12(4):618–20

[Memory disorders in chickenpox encephalitis] Delerue O, et al. Rev Neurol (Paris) 1990;146(4):301–3 (11 ref.) (Eng. Abstr.) (Fre)

[Acute retinal necrosis and herpes encephalitis. The key role of the ophthalmologist in diagnosing opportunistic infections in AIDS, successful therapy with acyclovir (Zovirax)] Fabricius EM, et al. Klin Monatsbl Augenheilkd 1990 Mar;196(3):160–5 (Eng. Abstr.) (Ger)

[Comments on the contribution by K.–J. Neumärker et al. Borrelia encephalitis and catatonia in adolescents. Nervenarzt (1989) 60:115–119 (letter)] Ackermann R. Nervenarzt 1989 Dec;60(12):765 (Ger)

[A case of neonatal herpes simplex virus encephalitis with calcifications of thalamus and basal ganglia] Takahashi H, et al. No To Hattatsu 1990 Mar;22(2):179–83 (Eng. Abstr.) (Jpn)

[Evaluation of the sequelae of suppurative meningitis and meningoencephalitis by computerized tomography] Michowicz A, et al. Przegl Epidemiol 1989;43(3):295–300 (Eng. Abstr.) (Pol)

DIAGNOSIS

Herpes trigeminal neuritis and rhombencephalitis on Gd–DTPA–enhanced MR imaging. Tien RD, et al. AJNR 1990 Mar–Apr;11(2):413–4

Brain stem encephalitis due to herpes simplex virus. Robb L, et al. Aust Paediatr J 1989 Aug;25(4):246–7

Viral infections of Toronto children during 1965: II. Measles encephalitis and other complications. McLean DM, et al. Can Med Assoc J 1966 Apr 23;94(17):905–10

EEG and pathologic findings in patients undergoing brain biopsy for suspected encephalitis. Brick JF, et al. Electroencephalogr Clin Neurophysiol 1990 Jul;76(1):86–9

Insufficient sensitivity of the Toxo–test–MT kit for serodiagnosis of toxoplasmic encephalitis in AIDS patients [letter] Suzuki Y, et al. Eur J Clin Microbiol Infect Dis 1990 Mar;9(3):238–9

Extra–intestinal manifestations of shigellosis [letter] Kasthuri AS, et al. J Assoc Physicians India 1989 Aug;37(8):552

Cerebral ventriculitis: MR findings. Barloon TJ, et al. J Comput Assist Tomogr 1990 Mar–Apr;14(2):272–5

MR findings in neonatal herpes simplex encephalitis type II. Enzmann D, et al. J Comput Assist Tomogr 1990 May–Jun; 14(3):453–7

MR imaging of paraneoplastic limbic encephalitis. Lacomis D, et al. J Comput Assist Tomogr 1990 Jan–Feb;14(1):115–7

Proton MR spectroscopy in herpes simplex encephalitis: assessment of neuronal loss. Menon DK, et al. J Comput Assist Tomogr 1990 May–Jun;14(3):449–52

Demonstration of herpes simplex virus DNA in CSF cells by in situ hybridization for early diagnosis of herpes encephalitis. Bamborschke S, et al. J Neurol 1990 Apr; 237(2):73–6

Viral meningitis and encephalitis in Saudi Arabia. Bakir TF. J Trop Pediatr 1989 Oct;35(5):211–3

Mechanism of occurrence of PLEDs: observations by SPECT and X–ray CT with lapse of time. Kawai K, et al. Jpn J Psychiatry Neurol 1989 Sep;43(3):542–3

Obstacle to early diagnosis of herpes simplex encephalitis via CSF [letter] Klapper PE, et al. Lancet 1990 Aug 11; 336(8711):385–6

Non–invasive diagnosis of herpes simplex encephalitis [letter] Powell KF, et al. Lancet 1990 Feb 10;335(8685):357–8

Mycoplasma pneumoniae encephalitis: a severe entity in children. Lehtokoski–Lehtiniemi E, et al. Pediatr Infect Dis J 1989 Sep;8(9):651–3

[Detection of specific IgM in the CSF for early and rapid diagnosis of herpes simplex virus encephalitis] Mo HM, et al. Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1990 Jun;23(3):168–71, 191 (Eng. Abstr.) (Chi)

[Comparative clinical study of herpes simplex encephalitis (HSE) and non–herpes simplex sporadic encephalitis (NHSSE)] Xu P. Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1990 Jun; 23(3):172–4, 191 (Eng. Abstr.) (Chi)

[Neurologic and neurosensory forms of Rift Valley fever in Mauritania] Riou O, et al. Bull Soc Pathol Exot Filiales 1989;82(5):605–10 (Eng. Abstr.) (Fre)

[A case from practice (146). Patient: Mr. M.M., born 1953, automobile mechanic] Fritschi J. Schweiz Rundsch Med Prax 1989 Aug 29;78(35):941–3 (Ger)

[Detection of antigen and antibody in herpes simplex encephalitis] Smetana Z, et al. Harefuah 1989 Nov 1; 117(9):233–5 (Eng. Abstr.) (Heb)

[Neonatal herpes simplex encephalitis—report of a case and summary of reported patients in Japan] Kohyama J, et al. No To Hattatsu 1989 Nov;21(6):563–8 (31 ref.) (Eng. Abstr.) (Jpn)

[The detection and quantitative analysis of viral antigens, infiltrating mononuclear cells, IFN–gamma, LT and IL–6 bearing cells in the frozen brain tissue sections from a patient with herpes simplex encephalitis by immunocytochemistry] Nakamura S, et al. No To Shinkei 1990 Apr;42(4):377–82 (Eng. Abstr.) (Jpn)

[A case of multiple tuberculomas of the brain in a 17–year–old male] Moskwa M, et al. Neurol Neurochir Pol 1989 Jan; 23(1):75–8 (Eng. Abstr.) (Pol)

[Diagnostic difficulties in acute viral encephalitis associated with mental disorders (a case of acute catatonia in herpes simplex encephalitis)] Zakrzewska B, et al. Neurol Neurochir Pol 1989 Jul–Dec;23(4–6):363–7 (Eng. Abstr.) (Pol)

[Brain abscesses of unknown etiology] Zderkiewicz E, et al. Neurol Neurochir Pol 1988 Nov–Dec;22(6):537–42 (Eng. Abstr.) (Pol)

[Herpetic encephalitis] Kępa L. Wiad Lek 1989 Apr 30; 42(8):533–9 (34 ref.) (Eng. Abstr.) (Pol)

[Use of the peroxidase–antiperoxidase method for detection of experimental Toxoplasma gondii infection of the central nervous system in mice] Walochowa M, et al. Wiad Parazytol 1989;35(4):277–81 (Eng. Abstr.) (Pol)

[Suppurative brain inflammation in patient with pulmonary tuberculosis] Savula MM, et al. Probl Tuberk 1989;(9):64–6 (Rus)

[Clinico–anatomic characteristics of cysticercosis of the brain] Boĭko IuG, et al. Zh Nevropatol Psikhiatr 1989; 89(7):36–8 (Eng. Abstr.) (Rus)

[Herpetic encephalitis: the clinico–virological aspect of its diagnosis] Dekonenko EP, et al. Zh Nevropatol Psikhiatr 1989;89(7):31–6 (Eng. Abstr.) (Rus)

[Lesions of the nervous system in Haemophilus influenzae infection in adults] Kononenko VV, et al. Zh Nevropatol Psikhiatr 1990;90(2):94–8 (Eng. Abstr.) (Rus)

[The diagnosis of herpetic encephalitis (letter)] Alberca R, et al. Neurologia 1987 Sep–Oct;2(5):251–3 (Spa)

[Herpetic encephalitis with rhombencephalitis] Maestre JF, et al. Neurologia 1987 Jul–Aug;2(4):176–9 (Eng. Abstr.) (Spa)

[Laboratory diagnosis of herpetic encephalitis (letter)] Téllez A, et al. Neurologia 1987 Mar–Apr;2(2):88–9 (Spa)

[Acute hemorrhagic leukoencephalitis is often misdiagnosed as herpes encephalitis] Fredrikson S, et al. Lakartidningen 1989 Nov 29;86(48):4250–3 (Swe)

DRUG THERAPY

A retrospective study about the use of cotrimoxazole as diagnostic support and treatment of suspected cerebral toxoplasmosis in AIDS. Solbreux P, et al. Acta Clin Belg 1990;45(2):85–96

Staphylococcus aureus ventriculitis treated with single–dose intraventricular vancomycin or daptomycin (LY146032): bacterial and antibiotic kinetics in hydrocephalic rabbits. Haworth CS, et al. Antimicrob Agents Chemother 1990 Feb; 34(2):245–51

Failure of interferon alfa and tribavirin in rabies encephalitis. Warrell MJ, et al. BMJ 1989 Sep 30;299(6703):830–3

Acyclovir dosage for neonatal herpes and duration for herpes encephalitis in adults. Med Lett Drugs Ther 1990 Sep 21; 32(827):90

Ventricular fluid concentrations of vancomycin in children after intravenous and intraventricular administration. McGee SM, et al. Pediatr Infect Dis J 1990 Feb;9(2):138–9

EPIDEMIOLOGY

[Acute non–suppurative encephalitis in children] Holm EB, et al. Ugeskr Laeger 1990 May 7;152(19):1369–71 (Eng. Abstr.) (Dan)

ETIOLOGY

Massive neuronal destruction in human immunodeficiency virus (HIV) encephalitis. A clinico–pathological study of a pediatric case. Giangaspero F, et al. Acta Neuropathol (Berl) 1989;78(6):662–5

Toxoplasmic encephalitis. Luft BJ, et al. AIDS 1990 Jun; 4(6):593–5

Mumps, measles, and rubella vaccination and encephalitis [letter; comment] Campbell AG. BMJ 1989 Oct 7; 299(6704):916 Comment on: BMJ 1989 Sep 9;299(6700):660.

Fatal encephalitis in a patient with chronic graft–versus–host disease. Marosi C, et al. Bone Marrow Transplant 1990 Jul; 6(1):53–7

Lentiviral encephalitides in the immature host: a comparison of human immunodeficiency virus type 1 (HIV–1) and simian immunodeficiency virus (SIV) brain infection. Epstein LG. Brain Dev 1989;11(6):353–9 (56 ref.)

Legionella infection mimicking herpes encephalitis. Potasman I, et al. Crit Care Med 1990 Apr;18(4):453–4

Limbic encephalitis. A rare presentation of the small–cell lung carcinoma. den Hollander AM, et al. Gen Hosp Psychiatry 1989 Nov;11(6):388–92

A sporadic case of dengue encephalopathy [letter] Mehendale SM, et al. J Assoc Physicians India 1989 May;37(5):346

Extrapyramidal symptoms in varicella zoster infection [letter] Saha P, et al. J Assoc Physicians India 1990 Apr;38(4):312–3

Shunt–associated ventriculitis caused by Branhamella catarrhalis [letter] Cooke RP, et al. J Hosp Infect 1990 Feb;15(2):197–8

Encephalitis due to Epstein–Barr virus. Bhatti N, et al. J Infect 1990 Jan;20(1):69–72

Q fever encephalitis. Cameron DA, et al. J Infect 1990 Mar;

20(2):159–62
Encephalitis in a 13-year-old boy following 17D yellow fever vaccine. Schoub BD, et al. **J Infect** 1990 Jul; 21(1):105–6
Disseminated neonatal herpes simplex virus infection with necrotizing encephalitis—an autopsy case. Suh YL, et al. **J Korean Med Sci** 1987 Jun;2(2):123–7
Differentiation of the humoral immune response in herpes simplex encephalitis. Schädlich HJ, et al. **J Neuroimmunol** 1990 Apr;27(1):49–53
Dorsal midbrain encephalitis caused by Propionibacterium acnes. Report of two cases. Camarata PJ, et al. **J Neurosurg** 1990 Apr;72(4):654–9
Multiple subpial transection in treatment of focal epilepsy [letter; comment] Piatt JH Jr. **J Neurosurg** 1989 Oct; 71(4):629–30 Comment on: J Neurosurg 1989 Feb;70(2):231–9.
Viremia and glial nodule encephalitis after experimental systemic cytomegalovirus infection. Booss J, et al. **Lab Invest** 1989 Dec;61(6):644–9
Central nervous system in AIDS—an update. Dąmbska M, et al. **Neuropatol Pol** 1989;27(3):297–310
Inflammatory intracranial mass lesion: an unusual complication resulting from the use of Gelfoam. Guerin C, et al. **Neurosurgery** 1990 May;26(5):856–9
A hypothesis on the pathophysiology of neonatal herpes simplex virus encephalitis: clinical recurrence after asymptomatic primary infection. Kohl S. **Pediatr Infect Dis J** 1990 May;9(5):307–8
Unusual presentation of group B streptococcal ventriculitis. Sokol DM, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):525–7
Neuropathology of two fatal cases of measles in the 1988–1989 Houston epidemic. Pearl PL, et al. **Pediatr Neurol** 1990 Mar–Apr;6(2):126–30
Encephalitis caused by human immunodeficiency virus: CT and MR imaging manifestations with clinical and pathologic correlation. Chrysikopoulos HS, et al. **Radiology** 1990 Apr;175(1):185–91
Fatal neonatal meningitis and ventriculitis caused by multiresistant Achromobacter xylosoxidans. A case report. Manjra AI, et al. **S Afr Med J** 1989 Nov 18;76(10):571–3
Trypanosomiasis and encephalitis: possible aetiology and treatment. Jennings FW, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):518–9
[AIDS with subacute encephalitis as its first symptom] Zheng XM. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Oct;22(5):301–3, 319 (Eng. Abstr.) (Chi)
[Polyradiculoneuritis, rhombencephalitis and encephalitis disclosing legionellosis in a healthy adult (letter)] Salord F, et al. **Ann Med Interne (Paris)** 1990;141(3):288–9 (Fre)
[Delayed acute measles encephalitis] Luna D, et al. **Arch Fr Pediatr** 1990 May;47(5):339–44 (Eng. Abstr.) (Fre)
[Delayed measles encephalitis in a leukemic child] Monfort-Gouraud M, et al. **Arch Fr Pediatr** 1990 Apr; 47(4):275–7 (Eng. Abstr.) (Fre)
[Acute Borrelia burgdorferi encephalitis (Lyme disease) in an Algerian child] Rousselle C, et al. **Pediatrie** 1989; 44(4):265–9 (Eng. Abstr.) (Fre)
[A case of encephalitis and varicella pneumonia in a healthy adult (letter)] Boulet E, et al. **Presse Med** 1990 Jun 2; 19(22):1055 (Fre)
[Recurrent herpetic encephalitis] Brochet B, et al. **Rev Neurol (Paris)** 1990;146(6–7):450–4 (Eng. Abstr.) (Fre)
[A case from practice (179). HIV infection with HIV encephalopathy—suspicion of toxoplasma encephalitis] Hilti P. **Schweiz Rundsch Med Prax** 1990 May 29; 79(22):711–2 (Ger)
[Side effects of preventive triple immunization—25 years experiences] Dittmann S, et al. **Z Arztl Fortbild (Jena)** 1990; 84(8):355–6 (Ger)
[Encephalitis without pneumonia caused by Legionella bozemanii] Potasman I, et al. **Harefuah** 1990 Feb 15; 118(4):198–201 (Eng. Abstr.) (Heb)
[A case of recurrent herpes simplex encephalitis] Tsutsumi Y, et al. **Nippon Naika Gakkai Zasshi** 1989 Jul;78(7):972–3 (7 ref.) (Jpn)
[The role of herpes simplex virus in the pathogenesis of cerebral lesions and visceral disorders in newborn infants] Kudashov NI, et al. **Akush Ginekol (Mosk)** 1990 Jan; (1):24–8 (Rus)
[Risk factors for acute viral encephalitis in childhood and adolescence] Salić M, et al. **Srp Arh Celok Lek** 1987 Apr; 115(4):421–9 (Eng. Abstr.) (Scc)
[Subacute encephalitis caused by herpes simplex virus] Hlavka V, et al. **Acta Med Iugosl** 1989;43(4):303–13 (Eng. Abstr.) (Ser)
[Viral encephalitis] Demiröz P, et al. **Mikrobiyol Bul** 1989 Jan;23(1):85–9 (16 ref.) (Eng. Abstr.) (Tur)

IMMUNOLOGY

Specific in vitro IgG subclass synthesis and lymphocyte proliferation responses in herpes virus encephalitis. Mathiesen T, et al. **Acta Neurol Scand** 1990 Apr;81(4):341–5
Lymphocyte subsets in human encephalitic and paralytic rabies. Sriwanthana B, et al. **Acta Neurol Scand** 1989 Oct; 80(4):287–9
Cellular localization of an HIV-1 antigen in subacute AIDS encephalitis using an improved double-labeling immunohistochemical method. Kure K, et al. **Am J Pathol** 1990 May;136(5):1085–92
The influence of cold or isolation stress on resistance of mice to West Nile virus encephalitis. Ben-Nathan D, et al. **Experientia** 1990 Mar 15;46(3):285–90
Affinity distributions of antigen-specific IgG in patients with multiple sclerosis and in patients with viral encephalitis. Luxton RW, et al. **J Immunol Methods** 1990 Aug 7; 131(2):277–82
Immune activation during measles: interferon-gamma and neopterin in plasma and cerebrospinal fluid in complicated and uncomplicated disease. Griffin DE, et al. **J Infect Dis** 1990 Mar;161(3):449–53
Astrocytic reaction predominance in chronic encephalitis of Junin virus-infected rats. Lascano EF, et al. **J Med Virol** 1989 Dec;29(4):327–33
Localization of an encephalitogenic epitope for the SJL mouse in the N-terminal region of myelin basic protein. Fritz RB, et al. **J Neuroimmunol** 1990 Mar;26(3):239–43
The N- and C-terminal boundaries of myelin basic protein determinants required for encephalitogenic and proliferative responses of Lewis rat T cells. Mannie MD, et al. **J Neuroimmunol** 1990 Mar;26(3):201–11
The development and characterization of encephalitogenic cloned T cells specific for myelin proteolipid protein. van der Veen RC, et al. **J Neuroimmunol** 1990 Feb;26(2):139–45
Anticardiolipin antibodies in patients with rabies vaccination induced neurological complications and other neurological diseases. Chaleomchan W, et al. **J Neurol Sci** 1990 May; 96(2–3):143–51
The characterization of Ia expression during Sindbis virus encephalitis in normal and athymic nude mice. Tyor WR, et al. **J Neuropathol Exp Neurol** 1990 Jan;49(1):21–30
Immunization of mice with recombinant vaccinia virus expressing authentic dengue virus nonstructural protein NS1 protects against lethal dengue virus encephalitis. Falgout B, et al. **J Virol** 1990 Sep;64(9):4356–63
Antibody-induced restriction of viral gene expression in measles encephalitis in rats. Liebert UG, et al. **J Virol** 1990 Feb;64(2):706–13
Long-term persistence of intrathecal viral antibody responses in postinfectious diseases of the central nervous system and in Rett syndrome. Riikonen R, et al. **Neuropediatrics** 1989 Nov;20(4):215–9
Effect of intracerebrally injected Corynebacterium parvum on the development and growth of metastatic brain tumor in mice. Kennedy JD, et al. **Neurosurgery** 1989 Nov; 25(5):709–14
Limbic encephalitis and anti-neuronal antibodies [letter; comment] Anderson NE. **Pathology** 1989 Apr;21(2):152–3 Comment on: Pathology 1988 Jul;20(3):292–5.
Subacute sclerosing panencephalitis, progressive rubella panencephalitis, and multifocal leukoencephalopathy. Wolinsky JS. **Res Publ Assoc Res Nerv Ment Dis** 1990; 68:259–68 (45 ref.)
[Malaria tropica with activation of blood coagulation and detection of tumor necrosis factor (NF-alpha) in serum] Hemmer CJ, et al. **Klin Wochenschr** 1990 Mar 5;68(5):281–5 (Eng. Abstr.) (Ger)
[Cytomegalovirus encephalitis in immunologically normal adults] Suzuki Y, et al. **Rinsho Shinkeigaku** 1990 Feb; 30(2):168–73 (20 ref.) (Eng. Abstr.) (Jpn)
[Molecular pathomechanism of autoimmune encephalitis] Tabira T, et al. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1283–90 (Jpn)
[Antibodies to galactocerebrosides of the brain in the blood serum of children with neuroinfections] Taranova NP, et al. **Zh Nevropatol Psikhiatr** 1989;89(7):27–31 (Eng. Abstr.) (Rus)

METABOLISM

[Simultaneous in situ detection of viral antigens and RNA in brain tissues from a patient with herpes simplex encephalitis by immunocytochemistry and in situ hybridization] Nakamura S, et al. **No To Shinkei** 1989 Dec; 41(12):1177–84 (Eng. Abstr.) (Jpn)

MICROBIOLOGY

Naturally occurring canine distemper virus encephalitis: distribution and expression of viral polypeptides in nervous tissues. Baumgärtner W, et al. **Acta Neuropathol (Berl)** 1989; 78(5):504–12
Coxsackie B antigen in the central nervous system of a patient with fatal acute encephalitis: immunohistochemical studies of formalin-fixed paraffin-embedded tissue. Kamei S, et al. **Acta Neuropathol (Berl)** 1990;80(2):216–21 (24 ref.)
Acute measles encephalitis of the delayed type in an immunosuppressed child. Colamaria V, et al. **Brain Dev** 1989;11(5):322–6
Listeria rhomboencephalitis. Frayne J, et al. **Clin Exp Neurol** 1987;24:175–9
Virus replication and ultrastructural changes after induction of encephalitis in mice by measles virus. Wear DJ, et al. **Exp Mol Pathol** 1968 Dec;9(3):405–17
Neuroinvasion by herpes simplex virus. An in vitro model for characterization of neurovirulent strains. Bergström T, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):405–10
The JH2604 deletion variant of herpes simplex virus type 2 (HG52) fails to produce necrotizing encephalitis following intracranial inoculation of mice. Taha MY, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1597–601
Herpes simplex virus (HSV) DNA in microglial nodular brainstem encephalitis. Schmidbauer M, et al. **J Neuropathol Exp Neurol** 1989 Nov;48(6):645–52
Pathogenesis of encephalitis induced in newborn mice by virulent and avirulent strains of Sindbis virus. Sherman LA, et al. **J Virol** 1990 May;64(5):2041–6
Spread of herpes simplex virus type 1 in the central nervous system during experimentally reactivated encephalitis. Stroop WG, et al. **Microb Pathog** 1990 Feb;8(2):119–34
Molecular insights into infections of the central nervous system. Lipkin WI, et al. **Res Publ Assoc Res Nerv Ment Dis** 1990;68:15–22 (38 ref.)
Severe encephalitis associated with disseminated echovirus 22 infection. Koskiniemi M, et al. **Scand J Infect Dis** 1989; 21(4):463–6
Mutated and hypermutated genes of persistent measles viruses which caused lethal human brain diseases. Cattaneo R, et al. **Virology** 1989 Dec;173(2):415–25
Herpes simplex virus neurovirulence and productive infection of neural cells is associated with a function which maps between 0.82 and 0.832 map units on the HSV genome. Thompson RL, et al. **Virology** 1989 Oct;172(2):435–50
[Meningo-encephalitis caused by Chlamydia trachomatis (letter)] Humbert P. **Presse Med** 1990 Jun 30;19(26):1243 (Fre)
[Comments on the contribution by G. F. Walter et al. Detection of Epstein-Barr viruses in Rasmussen encephalitis (letter)] Ritter K, et al. **Nervenarzt** 1989 Sep; 60(9):583 (Ger)

MORTALITY

[Death from inflammatory central nervous system diseases during 1950–1984 at the Pavlov Medical Institute] Zaprianov Z. **Eksp Med Morfol** 1989;28(4):6–12 (Eng. Abstr.) (Bul)

PATHOLOGY

Neutrophil migration into a bacterial cerebritis. Lo WD, et al. **Adv Neurol** 1990;52:551
Acute encephalopathy and fatty hepatomegaly. Bradford WD, et al. **Am J Dis Child** 1967 Aug;114(2):152–6
Chronic encephalitis, epilepsy, and cerebrovascular immune complex deposits. Andrews JM, et al. **Ann Neurol** 1990 Jul;28(1):88–90
A comparative light and electron microscopic study of rabies and Hart Park virus encephalitis. Jenson AB, et al. **Exp Mol Pathol** 1967 Aug;7(1):1–10
Acute haemorrhagic leucoencephalitis of brainstem and cerebellum. Sharma SC, et al. **Indian J Pathol Microbiol** 1990 Apr;33(2):185–7
Combined HIV-CMV encephalitis presenting with brainstem signs. Fuller GN, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):975–9 (31 ref.)
Penetration of neuronal perikarya by capillaries in chronic limbic encephalitis. Kepes JJ, et al. **J Neuropathol Exp Neurol** 1990 Jan;49(1):64–70
Evolution of brain MRI abnormalities in limbic encephalitis. Dirr LY, et al. **Neurology** 1990 Aug;40(8):1304–6
[Clinico-pathologic case of slowly progressive herpes simplex encephalitis without temporal necrosis] Dubas F, et al. **Rev Neurol (Paris)** 1989;145(11):808–10 (Eng. Abstr.) (Fre)
[Encephalomyocarditis syndrome (EMC syndrome)] Fehlow P, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Apr; 42(4):218–24 (Eng. Abstr.) (Ger)
[The role of inflammatory infiltrate as a prognostic criterion in cerebral metastases. Preliminary results] Bucciero A, et al. **Minerva Med** 1990 Mar;81(3):139–46 (Eng. Abstr.) (Ita)
[Generalized form of cerebral actinomycosis] Bertrand E, et al. **Neuropatol Pol** 1989;27(2):237–43 (Eng. Abstr.) (Pol)
[Aspergillosis of the brain in a patient with pancytopenia] Szpakowa GM, et al. **Neuropatol Pol** 1989;27(2):245–54 (Eng. Abstr.) (Pol)
[Disseminated herpetic encephalitis: report of an autopsy case with immunohistochemical study] Pittella JE, et al. **Arq Neuropsiquiatr** 1989 Dec;47(4):449–54 (Eng. Abstr.) (Por)
[Neuromorphologic aspects of experimental herpetic infection] Mikhallenko AA, et al. **Arkh Anat Gistol Embriol** 1989 Oct;97(10):31–6 (Eng. Abstr.) (Rus)
[Neuropathology of HIV encephalitis] Gutiérrez Molina M. **Arch Neurobiol (Madr)** 1989;52 Suppl 1:45–61 (71 ref.) (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

The influence of cold or isolation stress on neuroinvasiveness and virulence of an attenuated variant of West Nile virus. Ben-Nathan D, et al. **Arch Virol** 1989;109(1–2):1–10
Brain stem encephalitis in a patient with gastroduodenal and cardiovascular dysfunction: a case report. Alampi G, et al. **Clin Neuropatol** 1990 Jan–Feb;9(1):16–20
Bickerstaff brainstem encephalitis. A grave non-demyelinating disease with benign prognosis. Yaqub BA, et al. **J Neurol Sci** 1990 Apr;96(1):29–40
Abnormalities of the nervous system in Lyme disease: response to antimicrobial therapy [published erratum appears in Rev Infect Dis 1990 May-Jun;12(3):566] Halperin JJ. **Rev Infect Dis** 1989 Sep–Oct;11 Suppl 6:S1499–504 (14 ref.)

[Optimizing parenteral nutrition using indirect calorimetry] Behrendt W. **Beitr Infusionther** 1990;25:304–13 **(Ger)**

[Apparent central facial paralysis in Lyme borreliosis] Görke W, et al. **Klin Padiatr** 1989 Nov–Dec;201(6):467–70 (Eng. Abstr.) **(Ger)**

[Usefulness of intracranial pressure monitoring and EEG analysis in a child with acute encephalitis] Goto K, et al. **No To Hattatsu** 1989 Jul;21(4):374–8 (Eng. Abstr.) **(Jpn)**

[Luxury perfusion in herpes simplex encephalitis] Nara T, et al. **No To Hattatsu** 1989 Jul;21(4):390–1 **(Jpn)**

[A method of studying the visual evoked potentials in the evaluation of the status of the central nervous system in newborn infants] Barashnev IuI, et al.
Zh Nevropatol Psikhiatr 1989;89(8):6–9 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Protection of mice against yellow fever virus encephalitis by immunization with a vaccinia virus recombinant encoding the yellow fever virus non-structural proteins, NS1, NS2a and NS2b. Putnak JR, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1697–702

Protection from lethal coronavirus infection by affinity-purified spike glycoprotein of murine hepatitis virus, strain A59. Daniel C, et al. **Virology** 1990 Jan; 174(1):87–94

PSYCHOLOGY

Long-term cognitive sequelae of acyclovir-treated herpes simplex encephalitis. Gordon B, et al. **Arch Neurol** 1990 Jun;47(6):646–7

Paraneoplastic limbic encephalitis: neuropsychiatric presentation. Newman NJ, et al. **Biol Psychiatry** 1990 Mar 1;27(5):529–42 (53 ref.)

RADIOGRAPHY

[Tuberculous encephalitis—a complication of lung tuberculosis] Krieger HG, et al. **Pneumologie** 1990 Feb;44 Suppl 1:482–3 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

HM-PAO-imaging and herpes encephalitis. Cleator GM, et al. **Arch Virol** 1989;109(3–4):263–8

Focal high uptake of HM-PAO in brain perfusion studies: a clue in the diagnosis of encephalitis [clinical conference] Meyer MA. **J Nucl Med** 1990 Jun;31(6):1094–8

[N-isopropyl I-123 p-iodoamphetamine single photon emission computed tomography of herpes simplex encephalitis] Ito K, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1989 Oct 25; 49(10):1290–7 (Eng. Abstr.) **(Jpn)**

SURGERY

Intracranial nonspecific inflammatory granuloma. Nakagawa K, et al. **Surg Neurol** 1990 Mar;33(3):221–5

THERAPY

Treatment of toxoplasmic encephalitis in mice with recombinant gamma interferon. Suzuki Y, et al.
Infect Immun 1990 Sep;58(9):3050–5

Neurological outcome after a severe herpes simplex encephalitis treated with acyclovir and beta-interferon. Time course of intracranial pressure. Schmidt A, et al.
Klin Wochenschr 1990 Mar 5;68(5):286–9

Effect of trimethoprim/sulphamethoxazole and hyperbaric oxygen on experimental Spiroplasma mirum encephalitis. Bastian FO, et al. **Res Microbiol** 1989 Feb;140(2):151–8

VETERINARY

DNA restriction enzyme analysis of a bovine herpesvirus 1 strain isolated from encephalitis in Hungary. Magyar G, et al. **Acta Vet Hung** 1989;37(4):349–52

Caprine arthritis encephalitis lentivirus transmission and disease. McGuire TC, et al.
Curr Top Microbiol Immunol 1990;160:61–75 (79 ref.)

Encephalitis induced by a canine distemper virus in squirrel monkeys. Nagata T, et al. **J Med Primatol** 1990; 19(2):137–49

Severity of arthritis is predicted by antibody response to gp135 in chronic infection with caprine arthritis-encephalitis virus. Knowles D Jr, et al. **J Virol** 1990 May;64(5):2396–8

Augmentation of lymphocyte and macrophage proliferation by caprine arthritis-encephalitis virus contributes to the development of progressive arthritis. Banks KL, et al.
Rheumatol Int 1989;9(3–5):123–8

Occurrence of caprine arthritis-encephalitis in Mozambique. Lopes Pereira C, et al. **Trop Anim Health Prod** 1989 Nov; 21(4):237–8

Survey of encephalopathy incidence set up by Health ministry [news] **Vet Rec** 1990 May 5;126(18):447–8

Bovine fetal encephalitis and myocarditis associated with protozoa [letter] Barr BC, et al. **Vet Rec** 1990 Feb 3; 126(5):120–1

Bovine encephalitis herpesvirus [letter; comment] Studdert MJ. **Vet Rec** 1989 Dec 2;125(23):584 Comment on: Vet Rec 1989 Jun 24;124(25):666–7.

Bovine encephalitis herpesvirus [letter; comment] Studdert MJ. **Vet Rec** 1990 Jan 6;126(1):21–2 Comment on: Vet Rec 1989 Jun 24;124(25):666–7.

[Responses of kids to monocytes infected in vitro by the caprine arthritis-encephalitis virus] Guiguen F, et al.
Ann Rech Vet 1990;21(3):179–85 (Eng. Abstr.) **(Fre)**

ENCEPHALITIS, CALIFORNIA see under **ENCEPHALITIS, EPIDEMIC**

ENCEPHALITIS, CENTRAL EUROPEAN see **ENCEPHALITIS, TICK-BORNE**

ENCEPHALITIS, EPIDEMIC

[Significance of viruses of antigen complex of California encephalitis in pathology] Kolobukhina LV, et al.
Klin Med (Mosk) 1989 Sep;67(9):61–4 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Schizophrenia and encephalitis lethargica [letter] Boardman RH. **Lancet** 1990 Jul 21;336(8708):184–5

DIAGNOSIS

[Herpes simplex 1 virus encephalitis. Early diagnosis with magnetic tomography (MT)] Bakken JS, et al.
Tidsskr Nor Laegeforen 1989 Aug 30;109(24):2430–2 (Eng. Abstr.) **(Nor)**

EPIDEMIOLOGY

Arboviral infections of the central nervous system—United States, 1989 [published erratum appears in MMWR 1990 Jun 29;39(25):437] **MMWR** 1990 Jun 22;39(24):407, 413–7

ETIOLOGY

[The clinico-laboratory characteristics of cases of diseases connected with viruses of the California encephalitis complex in the inhabitants of Moscow] Kolobukhina LV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Oct; (10):68–73 (Eng. Abstr.) **(Rus)**

HISTORY

Some historical observations on involuntary movements of the face [letter] Ross RT.
J Neurol Neurosurg Psychiatry 1989 Nov;52(11):1311

[Documents from the history of psychiatry. Epidemic encephalitis in the Society of Clinical Psychiatry] Biéder J, et al. **Ann Med Psychol (Paris)** 1989 Oct;147(8):862–6 **(Fre)**

IMMUNOLOGY

Characterization of the local and systemic B cell response of normal and athymic nude mice with Sindbis virus encephalitis. Tyor WR, et al. **J Neuroimmunol** 1989 Oct; 24(3):207–15

MICROBIOLOGY

[New types of virus infections of domestic animals in the German Democratic Republic. 4. Tahyna virus infections—a review] Knuth T, et al.
Arch Exp Veterinarmed 1990;44(2):265–77 (96 ref.) (Eng. Abstr.) **(Ger)**

MORTALITY

Some epidemiological observations in encephalitis in children admitted to the Burdwan Medical College Hospital, Burdwan, West Bengal. Basu SN.
Indian J Public Health 1989 Apr–Jun;33(2):75–6

TRANSMISSION

Recently introduced Aedes albopictus in the United States: potential vector of La Crosse virus (Bunyaviridae: California serogroup). Grimstad PR, et al.
J Am Mosq Control Assoc 1989 Sep;5(3):422–7

Replication and dissemination of La Crosse virus in the competent vector Aedes triseriatus and the incompetent vector Aedes hendersoni and evidence for transovarial transmission by Aedes hendersoni (Diptera: Culicidae). Paulson SL, et al. **J Med Entomol** 1989 Nov;26(6):602–9

ENCEPHALITIS, EQUINE see **ENCEPHALOMYELITIS, EQUINE**

ENCEPHALITIS, JAPANESE B

Japanese encephalitis causing public health problems in southwest Asia. The SEAMEO-Tropmed technical meeting. Bangkok, Thailand, 13–15 June 1989. Proceedings.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):557–654

DIAGNOSIS

Japanese encephalitis in a 7-month-old Japanese boy. Tamada K, et al. **Acta Paediatr Jpn Overseas Ed** 1990 Feb; 32(1):98–103

Respiratory paralysis as a presenting symptom in Japanese encephalitis—a case report. Tzeng SS.
Chung Hua I Hsueh Tsa Chih 1989 Mar;43(3):208–12

Rapid diagnosis of Japanese encephalitis by immunofluorescent examination of cerebrospinal fluid. Mathur A, et al. **Indian J Med Res** 1990 Jan;91:1–4

Laboratory diagnosis of Japanese encephalitis using monoclonal antibodies and correlation of findings with the outcome. Ravi V, et al. **J Med Virol** 1989 Nov;29(3):221–3

Molecular considerations for the laboratory diagnosis of Japanese encephalitis virus. Anderson R.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):605–10 (37 ref.)

Japanese encephalitis virus encephalitis: an overview. Thongcharoen P.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):559–73 (31 ref.)

[A rapid method for serodiagnosis of Japanese encephalitis using persistently infected C6/J-121 cells] Kimura T, et al. **Kansenshogaku Zasshi** 1990 Mar;64(3):264–8 (Eng. Abstr.) **(Jpn)**

[Infectious diseases and monoclonal antibodies] Kobayashi Y. **Nippon Naika Gakkai Zasshi** 1989 Nov;78(11):1559–64 **(Jpn)**

[Serodiagnosis of Japanese encephalitis virus and other arbovirus infections] Kitano T. **Nippon Rinsho** 1990 Feb; 48 Suppl:336–9 **(Jpn)**

EPIDEMIOLOGY

Japanese encephalitis in children in Bellary Karnataka. Kamala CS, et al. **Indian Pediatr** 1989 May;26(5):445–52

Seroepidemiological study of Japanese encephalitis in Dimapur, Nagaland. Angami K, et al. **J Commun Dis** 1989 Jun;21(2):87–95

Epidemiological investigation on Japanese encephalitis outbreak in Uttar Pradesh during 1988. Narasimham MV, et al. **J Commun Dis** 1988 Dec;20(4):263–75

A review of Japanese encephalitis cases in the Philippines (1972–1985). Barzaga NG.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):587–92 (3 ref.)

Japanese encephalitis in Thailand. Chunsuttiwat S.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):593–7

Japanese encephalitis in children in northern Thailand. Poneprasert B.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):599–603

A review of Japanese-B virus encephalitis in Malaysia. Sinniah M. **Southeast Asian J Trop Med Public Health** 1989 Dec;20(4):581–5 (10 ref.)

Japanese encephalitis in Indonesia. Wuryadi S, et al.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):575–80 (11 ref.)

ETIOLOGY

Vectors of Japanese encephalitis virus (JEV): species complexes of the vectors. Sucharit S, et al.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):611–21 (14 ref.)

Studies on Japanese encephalitis vectors in Indonesia. Suroso T. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):627–8

HISTORY

[50th anniversary of the diagnosis of Japanese encephalitis in the Primorsk territory] Al'perovich PM.
Zh Nevropatol Psikhiatr 1989;89(12):87–9 **(Rus)**

IMMUNOLOGY

Immune status of volunteers one year after administration of Japanese encephalitis vaccine produced in India. Saxena SN, et al. **Indian J Med Res** 1989 Nov;89:362–7

Development of second generation JE vaccine with genetic engineering techniques. Manabe S.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):643–6

A field trial of Japanese encephalitis vaccine produced in Thailand. Rojanasuphot S, et al.
Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):653–4

METABOLISM

Alterations in iron levels in Japanese encephalitis virus infection. Mathur A, et al. **J Exp Pathol (Oxford)** 1990 Jun;71(3):307–12

[Changes in cerebral level of monoamines by Japanese encephalitis virus infection] Yamashita Y, et al. **Ulrusu** 1989 Jun;39(1):47–54 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Ultrastructural changes of mouse brain neurons infected with Japanese encephalitis virus. Hase T, et al.
Int J Exp Pathol 1990 Aug;71(4):493–505

[Dependency of Japanese encephalitis virus neurotropism on neuronal immaturity of rat cerebral cortex] Ogata A.
Hokkaido Igaku Zasshi 1990 Mar;65(2):221–34 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Protection of mice against lethal Japanese encephalitis with a recombinant baculovirus vaccine. McCown J, et al.
Am J Trop Med Hyg 1990 May;42(5):491–9

Japanese encephalitis and the traveller. Bucens M, et al. **Aust Fam Physician** 1990 Feb;19(2):163–5
Vaccines against Japanese encephalitis. Bhau LN, et al. **J Commun Dis** 1989 Mar;21(1):75–80
From the World Health Organization. Development of dengue and Japanese encephalitis vaccines. Brandt WE. **J Infect Dis** 1990 Sep;162(3):577–83
Induction of protective immunity in animals vaccinated with recombinant vaccinia viruses that express PreM and E glycoproteins of Japanese encephalitis virus. Yasuda A, et al. **J Virol** 1990 Jun;64(6):2788–95
Further experience with Japanese encephalitis vaccine [letter] Sanchez JL, et al. **Lancet** 1990 Apr 21;335(8695):972–3
Strategies for control of Japanese encephalitis mosquito vectors in the Philippines rice fields. Delas Llagas LA. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):629–33
A test production of inactivated mouse brain JE vaccine in Thailand. Pongpairoj S, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):647–52
Control of Japanese encephalitis vectors. Wada Y. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):623–6 (17 ref.)
[Effect of cytoxan on immune response of Japanese encephalitis virus killed and live vaccines] Fang QA, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Oct;11(5):317–21 (Eng. Abstr.) **(Chi)**

TRANSMISSION

Susceptibility status of vectors of Japanese encephalitis to insecticides in south Arcot and Tirunelveli districts of Tamil Nadu. Sundaram RM, et al. **J Commun Dis** 1989 Sep;21(3):218–21
Horizontal and vertical transmission of Japanese encephalitis virus by Aedes japonicus (Diptera: Culicidae). Takashima I, et al. **J Med Entomol** 1989 Sep;26(5):454–8
Feasibility of wing beat sound trap for the control of mosquito vectors. Kerdpibule V, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):639–41
Japanese encephalitis vectors in Thailand during 1978–1985. Phanthumachinda B. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):635–7

VETERINARY

Meteorological factors involved in Japanese encephalitis virus infection in cattle. Sakai T, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):121–7
Mosquito collection in endemic areas of Japanese encephalitis in Hokkaido, Japan. Takashima I, et al. **Nippon Juigaku Zasshi** 1989 Oct;51(5):947–53

ENCEPHALITIS PERIAXIALIS

DIAGNOSIS

Schilder's myelinoclastic diffuse sclerosis. Lana-Peixoto MA, et al. **J Clin Neuro Ophthalmol** 1989 Dec;9(4):236–40; discussion 241
Schilder's diffuse sclerosis: case study with three years' follow-up and neuro-imaging. Barth PG, et al. **Neuropediatrics** 1989 Nov;20(4):230–3

ENCEPHALITIS PERIAXIALIS CONCENTRICA see **ENCEPHALITIS PERIAXIALIS**

ENCEPHALITIS PERIAXIALIS DIFFUSA see **ENCEPHALITIS PERIAXIALIS**

ENCEPHALITIS, POST-VACCINAL

see related **HYPERSENSITIVITY, DELAYED**

Mumps, measles, and rubella vaccination and encephalitis [letter; comment] Nalin DR. **BMJ** 1989 Nov 11; 299(6709):1219 Comment on: BMJ 1989 Sep 9;299(6700):660.

ETIOLOGY

Mumps, measles, and rubella vaccination and encephalitis [see comments] Crowley S, et al. **BMJ** 1989 Sep 9;299(6700):660 Comment in: BMJ 1989 Oct 7;299(6704):916. Comment in: BMJ 1989 Oct 14;299(6705):978. Comment in: BMJ 1989 Nov 11;299(6709):1219. Comment in: BMJ 1989 Dec 9;299(6713):1464–5.
Neurologic sequelae of pertussis immunization—1989. Leviton A. **J Child Neurol** 1989 Oct;4(4):311–4
[Complications after preventive mumps vaccination in West Germany (including multiple preventive vaccinations)] Ehrengut W, et al. **Monatsschr Kinderheilkd** 1989 Jul; 137(7):398–402 (Eng. Abstr.) **(Ger)**

ENCEPHALITIS, ST. LOUIS

EPIDEMIOLOGY

From the Centers for Disease Control. Arboviral surveillance—Florida, 1990. **JAMA** 1990 Oct 10; 264(14):1805
Arboviral surveillance—United States, 1990. **MMWR** 1990 Sep 7;39(35):593–8
Update: arboviral surveillance—Florida, 1990. **MMWR** 1990 Sep 21;39(37):650–1

TRANSMISSION

Rainfall-directed oviposition behavior of Culex nigripalpus (Diptera: Culicidae) and its influence on St. Louis encephalitis virus transmission in Indian River County, Florida. Day JF, et al. **J Med Entomol** 1990 Jan;27(1):43–50

ENCEPHALITIS, TICK-BORNE

[Recent information on tick-borne diseases (I)] Künzer W, et al. **Tierarztl Prax** 1990 Feb;18(1):1–5 (0 ref.) (Eng. Abstr.) **(Ger)**

DIAGNOSIS

[Characteristics of clinical features of tick-borne encephalitis in Crimea] Borisova MA, et al. **Klin Med (Mosk)** 1989 Dec; 67(12):80–3 (Eng. Abstr.) **(Rus)**
[Preparations for immunodiagnosis of tick-borne encephalitis] Nikolaev VP. **Tr Inst Pastera** 1989;65:159–63 **(Rus)**
[The use of a method of molecular hybridization of nucleic acids for diagnosis of tick-borne encephalitis] Pitsenko ND, et al. **Tr Inst Pastera** 1989;65:169–75 **(Rus)**
[Preparations for express and retrospective diagnosis of tick-borne encephalitis] Podoplekina LE, et al. **Tr Inst Pastera** 1989;65:164–9 **(Rus)**
[Clinical course of tick-borne encephalitis in children] Sorokina MN, et al. **Tr Inst Pastera** 1989;65:66–71 **(Rus)**
[Clinico-immunologic and virologic study of a case of the primary-progredient form of tick-borne encephalitis] Vasil'eva OA, et al. **Tr Inst Pastera** 1989;65:71–7 **(Rus)**
[A comparison of the sensitivity of solid-phase immunosorbent methods of diagnosing tick-borne encephalitis] Karavanov AS, et al. **Vopr Virusol** 1990 Mar-Apr;35(2):162–5 **(Rus)**
[A comparative assessment of two immunoenzyme test systems for detecting antibodies to tick-borne encephalitis virus] Matveev LE, et al. **Vopr Virusol** 1989 Jul-Aug; 34(4):488–91 **(Rus)**

EPIDEMIOLOGY

Prevalence of tick-borne encephalitis and Lyme borreliosis in a defined Swedish population. Gustafson R, et al. **Scand J Infect Dis** 1990;22(3):297–306
Epidemiology of tick-borne encephalitis in Sweden 1956–1989: a study of 1116 cases. Holmgren EB, et al. **Scand J Infect Dis** 1990;22(3):287–95
[Occurrence of zoonoses in a natural reservoir in the West Bohemian Region. I. Tick-borne encephalitis—basic epidemiologic characteristics] Farník J, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Mar;39(2):113–9 (Eng. Abstr.) **(Cze)**
[Incidence of zoonoses with their natural foci in the West Bohemia Region. II. Antibodies to the Tahyna and Tribec tick-borne encephalitis viruses] Januška J, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jun;39(3):134–8 (Eng. Abstr.) **(Cze)**
[Simultaneous occurrence of tick-borne encephalitis and Lyme borreliosis in the Central Bohemian Region] Zeman P, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Mar; 39(2):95–105 (Eng. Abstr.) **(Cze)**
[Epidemiologic study of the detection of early summer meningoencephalitis north of the Danube, especially in the area of Aschaffenburg and the surrounding district (about 80 km)] Kienholz S. **Wien Klin Wochenschr** 1989 Nov 24; 101(22):790–1 **(Ger)**
[Epidemiology of tick-borne encephalitis in Leningrad] Antykova LP. **Tr Inst Pastera** 1989;65:21–5 **(Rus)**
[Clinical features of tick-borne encephalitis in the Leningrad area in 1956–1986] Komandenko NI, et al. **Tr Inst Pastera** 1989;65:56–65 **(Rus)**
[Epidemiologic characteristics of tick-borne encephalitis in the Leningrad area] Kuznetsova RI. **Tr Inst Pastera** 1989; 65:12–20 **(Rus)**
[Outbreaks of tick-borne encephalitis on the Karel'skiy Isthmus and their significance for the study of the disease] Shapoval AN. **Tr Inst Pastera** 1989;65:49–56 **(Rus)**
[Features of distribution of ixodes ticks and anthropogenic foci of tick-borne encephalitis in Leningrad] Smyslova TO, et al. **Tr Inst Pastera** 1989;65:40–9 **(Rus)**
[The significance of Ixodes ticks in the southern Far East in the circulation of Powassan virus] Krugliak SP, et al. **Vopr Virusol** 1989 May-Jun;34(3):358–62 **(Rus)**
[Tick-borne encephalitis in the Maritime Territory] Leonov GN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul; (7):43–8 (Eng. Abstr.) **(Rus)**
[Tick-borne encephalitis in a northern zone of coniferous and broad-leaved forests of a focal region of the Amur River basin] Vereta LA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):38–43 (Eng. Abstr.) **(Rus)**
[Geographical variants in the immunological structure of the population in combined foci of tick-borne encephalitis and endemic rickettsiosis in the European part of the USSR] Vorontsova TA. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):45–50 (Eng. Abstr.) **(Rus)**

ETIOLOGY

[Thymus involvement in the pathogenesis of experimental tick-borne encephalitis] Karmysheva VIa, et al. **Vopr Virusol** 1990 Mar-Apr;35(2):144–6 (Eng. Abstr.) **(Rus)**

HISTORY

[The history of the study of tick-borne encephalitis in the Leningrad area] Noskov FS, et al. **Tr Inst Pastera** 1989; 65:5–12 (25 ref.) **(Rus)**

IMMUNOLOGY

Antibody response to gp E of tick-borne encephalitis virus: comparison between natural infection and vaccination breakdown. Guirakhoo F, et al. **Int J Med Microbiol** 1990 Apr;272(4):477–84
A single amino acid substitution in envelope protein E of tick-borne encephalitis virus leads to attenuation in the mouse model. Holzmann H, et al. **J Virol** 1990 Oct; 64(10):5156–9
[Antibodies in dogs to the virus of tick-borne encephalitis (early summer encephalomyelitis/tick-borne encephalitis) in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989; 3:11–4 (Eng. Abstr.) **(Ger)**
[Results of the development and improvement of the technology for production of a vaccine against tick-borne encephalitis] Fedorov IuV, et al. **Tr Inst Pastera** 1989; 65:136–40 (29 ref.) **(Rus)**
[Prospects for developing a live vaccine against tick-borne encephalitis] Kamalov II, et al. **Tr Inst Pastera** 1989; 65:98–120 (97 ref.) **(Rus)**
[Assessment of the immunologic effectiveness of a concentrated purified vaccine against tick-borne encephalitis in experiments on animals] Korovina GI, et al. **Tr Inst Pastera** 1989;65:150–5 **(Rus)**
[The significance of humoral immunity in post-vaccination resistance of mice to tick-borne encephalitis] Nikonova AN, et al. **Tr Inst Pastera** 1989;65:84–90 **(Rus)**
[Cleaved vaccine against tick-borne encephalitis] Osipova EG, et al. **Tr Inst Pastera** 1989;65:155–9 **(Rus)**
[Laboratory methods of controlling immunogenicity of vaccines against tick-borne encephalitis] Sokolova ED. **Tr Inst Pastera** 1989;65:90–8 **(Rus)**
[Study of the immunogenicity and antigenic composition of fractions of a cultured vaccine against tick-borne encephalitis obtained by ultrafiltration, gel chromatography and ultracentrifugation methods] Sokolova ED, et al. **Tr Inst Pastera** 1989;65:141–50 **(Rus)**
[The mechanism of forming immunity in tick-borne encephalitis] Vasil'ev NV, et al. **Tr Inst Pastera** 1989; 65:77–84 **(Rus)**
[Discrete-dynamic analysis of the interconnection of immunologic indicators in experimental tick-borne encephalitis] Larina GI. **Vopr Virusol** 1989 May-Jun; 34(3):362–5 **(Rus)**
[The immune status of patients with tick-borne encephalitis studied by using an immune reagent kit for the determination of human lymphocyte subpopulations] Kondrat'eva ML, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Nov;(11):61–4 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

[Virologic and immunologic studies in foci of tick-borne encephalitis in the Leningrad area (1955–1985)] Churilova AA. **Tr Inst Pastera** 1989;65:25–30 **(Rus)**
[Immunologic mechanisms of preventing persistence of tick-borne encephalitis virus in mice] Khozinskiĭ VV, et al. **Vopr Virusol** 1989 Sep-Oct;34(5):585–90 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus. Crooks AJ, et al. **J Chromatogr** 1990 Feb 21;502(1):59–68

PREVENTION & CONTROL

A new vaccine against tick-borne encephalitis: initial trial in man including a dose-response study. Bock HL, et al. **Vaccine** 1990 Feb;8(1):22–4
[Relevance of a positive test reaction to merthiolate] Aberer W. **Hautarzt** 1990 Feb;41(2):112 **(Ger)**
[Special preventive immunization against early summer meningoencephalitis and tularemia for laborers of the Natural Gas Central Youth Project in the USSR] Gille H, et al. **Z Arztl Fortbild (Jena)** 1990;84(8):391–2 **(Ger)**
[Oligonucleotides, complementary to RNA of tick-borne encephalitis virus, prevent the development of the infectious process in mice] Pogodina VV, et al. **Dokl Akad Nauk SSSR** 1989 Sep-Oct;308(1):237–40 **(Rus)**
[Preparation of immunoglobulin for prevention of tick-borne encephalitis in endemic areas] Bol'shakova SL, et al. **Tr Inst Pastera** 1989;65:175–80 **(Rus)**
[Ways of improving the system of vaccine prevention of tick-borne encephalitis] Dubov AV. **Tr Inst Pastera** 1989; 65:120–5 **(Rus)**
[The possibility of preparing a live vaccine against tick-borne encephalitis from Malay langat virus TP-21] Il'enko VI,

et al. Tr Inst Pastera 1989;65:126–32 (Rus)
[Study of the distant consequences of immunizing people with a live vaccine against tick-borne encephalitis] Shapoval AN, et al. Tr Inst Pastera 1989;65:133–5 (Rus)
[The use of methisazone for preventing viral encephalitis and encephalomyelitis in an experiment in white mice] Tarasenko AB, et al. Vopr Virusol 1990 Mar–Apr; 35(2):158–60 (Rus)
[The efficacy of vaccination and serotherapy in tick-borne encephalitis in the Maritime Territory] Leonova GN. Zh Mikrobiol Epidemiol Immunobiol 1989 Oct;(10):59–64 (Eng. Abstr.) (Rus)

THERAPY

[The effect of preparations of specific and nonspecific transfer-factor on the course of experimental tick-borne encephalitis] Pogodina VV, et al. Vopr Virusol 1989 Nov–Dec;34(6):689–94 (Eng. Abstr.) (Rus)

TRANSMISSION

[The exchange of the tick-borne encephalitis virus between ixodid ticks feeding jointly on animals with a subthreshold level of viremia] Alekseev AN, et al. Med Parazitol (Mosk) 1990 Mar–Apr;(2):48–50 (Eng. Abstr.) (Rus)
[The location of the infecting tick bite and the severity of the course of tick-borne encephalitis] Okulova NM, et al. Med Parazitol (Mosk) 1989 Sep–Oct;(5):78–85 (Eng. Abstr.) (Rus)
[Ticks—carriers of the pathogen of tick-borne encephalitis] Zolotov PE. Tr Inst Pastera 1989;65:31–40 (Rus)

ENCEPHALITIS VIRUS, CENTRAL EUROPEAN see under ENCEPHALITIS VIRUSES, TICK-BORNE

ENCEPHALITIS VIRUS, EASTERN EQUINE see under ALPHAVIRUSES

ENCEPHALITIS VIRUS, JAPANESE

Japanese encephalitis causing public health problems in southwest Asia. The SEAMEO–Tropmed technical meeting. Bangkok, Thailand, 13–15 June 1989. Proceedings. Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):557–654
[Dependency of Japanese encephalitis virus neurotropism on neuronal immaturity of rat cerebral cortex] Ogata A. Hokkaido Igaku Zasshi 1990 Mar;65(2):221–34 (Eng. Abstr.) (Jpn)

ANALYSIS

Oligonucleotide fingerprint analysis of Japanese encephalitis virus strains of different geographical origin. Banerjee K, et al. Indian J Med Res 1989 Jul;89:201–16

DRUG EFFECTS

Effect of cytokines on Japanese encephalitis virus production by human monocytes. Hasegawa H, et al. Microbiol Immunol 1990;34(5):459–66

GENETICS

Expression of envelope glycoprotein (E) of Japanese encephalitis virus by recombinant vaccinia virus. Haishi S, et al. Acta Virol (Praha) 1989 Dec;33(6):497–503
Oligonucleotide fingerprint analysis of a wild strain & its attenuated variant of Japanese encephalitis virus. Banerjee K, et al. Indian J Med Res 1990 Mar;91:159–61
Membrane association and secretion of the Japanese encephalitis virus NS1 protein from cells expressing NS1 cDNA. Fan WF, et al. Virology 1990 Aug;177(2):470–6
Characterization of Japanese encephalitis virus envelope protein expressed by recombinant baculoviruses. Matsuura Y, et al. Virology 1989 Dec;173(2):674–82
Nucleotide sequence of the virulent SA–14 strain of Japanese encephalitis virus and its attenuated vaccine derivative, SA–14–14–2. Nitayaphan S, et al. Virology 1990 Aug; 177(2):541–52

IMMUNOLOGY

Protection of mice against lethal Japanese encephalitis with a recombinant baculovirus vaccine. McCown J, et al. Am J Trop Med Hyg 1990 May;42(5):491–9
A single gene controls resistance to Japanese encephalitis virus in mice. Miura K, et al. Arch Virol 1990; 112(3–4):261–70
Detection of serum antibody to Japanese encephalitis by enzyme-linked immunosorbent assay. Wang SY. Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih 1989 Feb;22(1):38–45
Epitope analysis of strains of Japanese encephalitis virus by monoclonal antibodies. Ghosh SN, et al. Indian J Med Res 1989 Nov;89:368–75
Selection of a neutralization-escape variant strain of Japanese encephalitis virus using monoclonal antibody. Gore MM, et al. Indian J Med Res 1990 May;91:231–3
Rapid diagnosis of Japanese encephalitis by immunofluorescent examination of cerebrospinal fluid. Mathur A, et al. Indian J Med Res 1990 Jan;91:1–4
Immune status of volunteers one year after administration of Japanese encephalitis vaccine produced in India. Saxena SN, et al. Indian J Med Res 1989 Nov;89:362–7
From the World Health Organization. Development of dengue and Japanese encephalitis vaccines. Brandt WE. J Infect Dis 1990 Sep;162(3):577–83
Evaluation of the potency and safety of inactivated Japanese encephalitis vaccine in US inhabitants. Poland JD, et al. J Infect Dis 1990 May;161(5):878–82
Passive protection of mice, goats, and monkeys against Japanese encephalitis with monoclonal antibodies. Zhang MJ, et al. J Med Virol 1989 Oct;29(2):133–8
Induction of protective immunity in animals vaccinated with recombinant vaccinia viruses that express PreM and E glycoproteins of Japanese encephalitis virus. Yasuda A, et al. J Virol 1990 Jun;64(6):2788–95
Biotinylated protein A in immunoassay. Takashima I, et al. Methods Enzymol 1990;184:497–500
A test production of inactivated mouse brain JE vaccine in Thailand. Pongpairoj S, et al. Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):647–52
A field trial of Japanese encephalitis vaccine produced in Thailand. Rojanasuphot S, et al. Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):653–4
[Immune response and reactions to simultaneous administration of hepatitis B vaccine with routine vaccine in children. II. Immune response and reactions to simultaneous administration of hepatitis B vaccine with Japanese B encephalitis vaccine and measles vaccine] Yuan CD. Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1989 Aug; 10(4):210–4 (Eng. Abstr.) (Chi)
[Effect of cytoxan on immune response of Japanese encephalitis virus killed and live vaccines] Fang QA, et al. Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1989 Oct;11(5):317–21 (Eng. Abstr.) (Chi)

ISOLATION & PURIFICATION

Japanese encephalitis virus infection in mosquitoes reared from field-collected immatures and in wild-caught males. Dhanda V, et al. Am J Trop Med Hyg 1989 Dec;41(6):732–6
Isolation of Japanese encephalitis virus from mosquitoes collected in Karnataka state, India from 1985 to 1987. Mourya DT, et al. Trans R Soc Trop Med Hyg 1989 Jul–Aug;83(4):550–2

METABOLISM

In vitro synthesis of Japanese encephalitis virus (JEV) RNA: membrane and nuclear fractions of JEV-infected cells possess high levels of virus-specific RNA polymerase activity. Takegami T, et al. Virus Res 1989 Aug; 13(4):337–50

PHYSIOLOGY

A comparative study of entry modes into C6/36 cells by Semliki Forest and Japanese encephalitis viruses. Hase T, et al. Arch Virol 1989;108(1–2):101–14
Horizontal and vertical transmission of Japanese encephalitis virus by Aedes japonicus (Diptera: Culicidae). Takashima I, et al. J Med Entomol 1989 Sep;26(5):454–8
Vectors of Japanese encephalitis virus (JEV): species complexes of the vectors. Sucharit S, et al. Southeast Asian J Trop Med Public Health 1989 Dec; 20(4):611–21 (14 ref.)
[Reproduction of Japanese encephalitis virus in human glioma cells, 118MGC: inhibitory effect of host factor(s)] Sahara M, et al. Ulrusu 1989 Dec;39(2):129–36 (Eng. Abstr.) (Jpn)

ENCEPHALITIS VIRUS, ST. LOUIS see under FLAVIVIRUSES

ENCEPHALITIS VIRUS, VENEZUELAN EQUINE

GENETICS

Variants of Venezuelan equine encephalitis virus that resist neutralization define a domain of the E2 glycoprotein. Johnson BJ, et al. Virology 1990 Aug;177(2):676–83

ISOLATION & PURIFICATION

[A rapid isolation of Venezuelan equine encephalomyelitis virus using the lanthanide immunofluorescence assay] Kharitonenkov IG, et al. Vopr Virusol 1990 Jan–Feb; 35(1):77–9 (Rus)

PHYSIOLOGY

Mosquito-induced infection with equine encephalomyelitis virus in dogs. Bivin WS, et al. Am J Trop Med Hyg 1967 Jul;16(4):544–7
Effect of apholate and metepa on Aedes aegypti infected with Venezuelan equine encephalomyelitis virus. Kappus KD, et al. Am J Trop Med Hyg 1967 Jul;16(4):539–43

ENCEPHALITIS VIRUS, WESTERN EQUINE

GROWTH & DEVELOPMENT

Temporal variations in the susceptibility of a semi-isolated population of Culex tarsalis to peroral infection with western equine encephalomyelitis and St. Louis encephalitis viruses. Hardy JL, et al. Am J Trop Med Hyg 1990 May; 42(5):500–11
Diel changes in adult mosquito microhabitat temperatures and their relationship to the extrinsic incubation of arboviruses in mosquitoes in Kern County, California. Meyer RP, et al. J Med Entomol 1990 Jul;27(4):607–14

IMMUNOLOGY

Cross-protective immunity between equine encephalomyelitis viruses in equids. Walton TE, et al. Am J Vet Res 1989 Sep;50(9):1442–6
Dot-ELISA for serodiagnosis of human infections due to Western equine encephalitis virus. Boctor FN, et al. J Virol Methods 1989 Dec;26(3):305–11
[Phagocytosis system and resistance of mice to Western equine encephalomyelitis virus] Nesterchuk SL, et al. Vopr Virusol 1989 Nov–Dec;34(6):758–60 (Rus)
[Serologic study of arbovirus in 2 localities of the Juventud island] Vázquez Ramudo S, et al. Rev Cubana Med Trop 1989 Sep–Dec;41(3):362–70 (Eng. Abstr.) (Spa)

ISOLATION & PURIFICATION

Occurrence of Culex erythrothorax in southeastern Colorado and report of virus isolations from this and other mosquito species. Jakob WL, et al. J Am Mosq Control Assoc 1989 Dec;5(4):534–6

ENCEPHALITIS VIRUSES

GROWTH & DEVELOPMENT

Replication and plaque formation of swine hemagglutinating encephalomyelitis virus (67N) in swine cell line, SK-K culture. Hirano N, et al. J Virol Methods 1990 Jan; 27(1):91–100

IMMUNOLOGY

Specificity of the murine T helper cell immune response to various alphaviruses. Mathews JH, et al. J Gen Virol 1989 Nov;70 (Pt 11):2877–86

ENCEPHALITIS VIRUSES, TICK-BORNE

[Ticks—carriers of the pathogen of tick-borne encephalitis] Zolotov PE. Tr Inst Pastera 1989;65:31–40 (Rus)

ANALYSIS

[Changes in biological properties of tick-borne encephalitis virus during cleavage of disulfide bonds in protein E] Vorovich MF, et al. Vopr Virusol 1989 Nov–Dec; 34(6):698–701 (Eng. Abstr.) (Rus)

CLASSIFICATION

Classification of tick-borne flaviviruses [letter; comment] Stephenson JR. Acta Virol (Praha) 1989 Sep;33(5):494 Comment on: Acta Virol (Praha) 1988 Sep;32(5):469–78.

DRUG EFFECTS

[Oligonucleotides, complementary to RNA of tick-borne encephalitis virus, prevent the development of the infectious process in mice] Pogodina VV, et al. Dokl Akad Nauk SSSR 1989 Sep–Oct;308(1):237–40 (Rus)
[The effect of myelopeptides on the persistence of tick-borne encephalitis virus in monkeys] Pogodina VV, et al. Vopr Virusol 1989 Sep–Oct;34(5):580–5 (Eng. Abstr.) (Rus)

GENETICS

Differentiation of strains of tick-borne encephalitis virus by means of RNA–DNA hybridization. Shamanin VA, et al. J Gen Virol 1990 Jul;71 (Pt 7):1505–15
A single amino acid substitution in envelope protein E of tick-borne encephalitis virus leads to attenuation in the mouse model. Holzmann H, et al. J Virol 1990 Oct; 64(10):5156–9
Genome sequence of tick-borne encephalitis virus (Western subtype) and comparative analysis of nonstructural proteins with other flaviviruses. Mandl CW, et al. Virology 1989 Nov;173(1):291–301
Nucleotide sequence of the genome and complete amino acid sequence of the polyprotein of tick-borne encephalitis virus. Pletnev AG, et al. Virology 1990 Jan;174(1):250–63
[Nucleotide sequence of the genome and complete amino acid sequence of a polyprotein of the tick-borne encephalitis virus] Pletnev AG, et al. Bioorg Khim 1989 Nov;15(11):1504–21 (Eng. Abstr.) (Rus)
[Expression of antigens of the tick-borne encephalitis virus by various recombinant variants of the vaccinia virus]

Khromykh AA, et al. **Dokl Akad Nauk SSSR** 1990; 310(4):996–9 **(Rus)**

[Tick-borne encephalitis virus: primary structure of DNA copies of the genes for strain 205 structural proteins] Safronov PF, et al. **Mol Gen Mikrobiol Virusol** 1990 Jan; (1):6–13 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Comparison of skalica, Hypr, and Langat viruses by kinetic haemagglutination–inhibition test. Elečková E, et al. **Acta Virol (Praha)** 1990 Apr;34(2):198–201

To the antigenic classification of some viruses from the tick–borne encephalitis complex by monoclonal antibodies. Grešíková M, et al. **Acta Virol (Praha)** 1990 Feb;34(1):90–4

Antibody response to gp E of tick–borne encephalitis virus: comparison between natural infection and vaccination breakdown. Guirakhoo F, et al. **Int J Med Microbiol** 1990 Apr;272(4):477–84

Preclinical investigations of the safety, immunogenicity and efficacy of a purified, inactivated tick–borne encephalitis vaccine. Klockmann U, et al. **J Biol Stand** 1989 Oct; 17(4):331–42

A new vaccine against tick–borne encephalitis: initial trial in man including a dose–response study. Bock HL, et al. **Vaccine** 1990 Feb;8(1):22–4

Inactivated vaccine against tick–borne encephalitis (TBE) derived from heteroploid continuous monkey cell line [letter] Elbert LB, et al. **Vaccine** 1989 Oct;7(5):477

[Incidence of zoonoses with their natural foci in the West Bohemia Region. II. Antibodies to the Tahyna and Tribec tick–borne encephalitis viruses] Januška J, et al. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jun;39(3):134–8 (Eng. Abstr.) **(Cze)**

[Antibodies in dogs to the virus of tick–borne encephalitis (early summer encephalomyelitis/tick–borne encephalitis) in Greece] Chambouris R, et al. **Geogr Med Suppl** 1989; 3:11–4 (Eng. Abstr.) **(Ger)**

[Relevance of a positive test reaction to merthiolate] Aberer W. **Hautarzt** 1990 Feb;41(2):112 **(Ger)**

[A comparison of pyrophosphatase and peroxidase as markers in the immunoenzyme analysis of the tick–borne encephalitis virus and antibodies to it] Shchipakin VN, et al. **Lab Delo** 1990;(4):18–21 (Eng. Abstr.) **(Rus)**

[A test of the use of an immunoenzyme method for demonstrating the tick–borne encephalitis virus in various foci] Bochkova NG, et al. **Vopr Virusol** 1990 Mar–Apr; 35(2):165–7 **(Rus)**

[Antigenic analysis of tick–borne encephalitis virus group using monoclonal antibodies and immunofluorescence] Galdamovich SIa, et al. **Vopr Virusol** 1989 Nov–Dec; 34(6):684–9 (Eng. Abstr.) **(Rus)**

[Slowly–sedimenting hemagglutinin of the tick–borne encephalitis virus] Gritsun TS, et al. **Vopr Virusol** 1989 Jul–Aug;34(4):449–54 (Eng. Abstr.) **(Rus)**

[Identification of individual antigenic epitopes of the envelope protein in the tick–borne encephalitis virus using monoclonal antibodies] Karavanov AS, et al. **Vopr Virusol** 1990 Mar–Apr;35(2):140–3 (Eng. Abstr.) **(Rus)**

[A comparative assessment of two immunoenzyme test systems for detecting antibodies to tick–borne encephalitis virus] Matveev LE, et al. **Vopr Virusol** 1989 Jul–Aug; 34(4):488–91 **(Rus)**

[Monoclonal antibodies against tick–borne encephalitis virus glycoprotein: preliminary characterization] Matveev LE, et al. **Vopr Virusol** 1989 Nov–Dec;34(6):694–8 (Eng. Abstr.) **(Rus)**

[Assessment of the sensitivity of an immunoenzyme method in determining infections and noninfectious antigens of the tick–borne encephalitis virus] Shchipakin VN, et al. **Vopr Virusol** 1989 Sep–Oct;34(5):634–7 **(Rus)**

[The efficacy of vaccination and serotherapy in tick–borne encephalitis in the Maritime Territory] Leonova GN. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Oct;(10):59–64 (Eng. Abstr.) **(Rus)**

[Comparison of the specificity of polyclonal antibodies to the tick–borne encephalitis virus in immunoenzyme analysis and immunoblotting] Terletskaia EN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):104–9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

[The exchange of the tick–borne encephalitis virus between ixodid ticks feeding jointly on animals with a subthreshold level of viremia] Alekseev AN, et al. **Med Parazitol (Mosk)** 1990 Mar–Apr;(2):48–50 (Eng. Abstr.) **(Rus)**

[A count of the vector portion of a population of the causative agent of tick–borne encephalitis connected with the imago of the taiga tick (Ixodes persulcatus)] Kovalevskiĭ IuV, et al. **Med Parazitol (Mosk)** 1989 Nov–Dec;(6):15–20 (Eng. Abstr.) **(Rus)**

[The infectiousness of Ixodes persulcatus ticks with the causative agents of Lyme disease and tick–borne encephalitis simultaneously] Korenberg EI, et al. **Parazitologiia** 1990 Mar–Apr;24(2):102–5 (Eng. Abstr.) **(Rus)**

[The significance of Ixodes ticks in the southern Far East in the circulation of Powassan virus] Krugliak SP, et al. **Vopr Virusol** 1989 May–Jun;34(3):358–62 **(Rus)**

[Comparison of 3 express–methods of detection of tick–borne encephalitis virus] Zlobin VI, et al. **Vopr Virusol** 1990 Jan–Feb;35(1):57–9 (Eng. Abstr.) **(Rus)**

METABOLISM

[Replication complex of tick–borne encephalitis complex. I. Identification of a nuclear fraction protein responsible for the initiation of RNA synthesis using affinity labeling] Morozova OV, et al. **Bioorg Khim** 1990 Apr;16(4):492–500 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

[The characteristics of the accumulation and the possibility of the long–term preservation of the tick–borne encephalitis virus in ixodid ticks] Mishaeva NP, et al. **Med Parazitol (Mosk)** 1990 Jan–Feb;(1):36–9 (Eng. Abstr.) **(Rus)**

ENCEPHALITOGENIC BASIC PROTEINS

Role of phosphorylation in conformational adaptability of bovine myelin basic protein. Deibler GE, et al. **Proteins** 1990;7(1):32–40

[Fibronectin (FN) concentrations in plasma and cerebrospinal fluid (CSF) from guinea pigs with experimental allergic encephalomyelitis (EAE) induced by myelin basic proteins] Hashiguchi H, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):175–82 (Eng. Abstr.) **(Jpn)**

[Myelin proteins] Kitamura K, et al. **Tanpakushitsu Kakusan Koso** 1990 Mar;35(4 Suppl):572–88 **(Jpn)**

ADMINISTRATION & DOSAGE

Suppression of experimental allergic encephalomyelitis by MBP–coupled lymphoid cells and by MBP–liposomes: a comparison. Strejan GH, et al. **Cell Immunol** 1990 May; 127(2):284–98

ANALYSIS

Overexpression of the myelin basic protein RNA in the cortex of a patient with Alzheimer's disease. Macq AF, et al. **Acta Neurol Belg** 1989 May–Oct;89(3–4):316

Myelin basic protein does not contain a phosphatidylinositol anchor [letter] McLaurin J, et al. **Biochem J** 1990 Jul 1; 269(1):278–9

An immunohistochemical study of the topography and cellular localization of three neural proteins in the sheep nervous system. Jeffrey M, et al. **J Comp Pathol** 1990 Jul; 103(1):23–35

Semple rabies vaccine: presence of myelin basic protein and proteolipid protein and its activity in experimental allergic encephalomyelitis. Javier RS, et al. **J Neurol Sci** 1989 Nov; 93(2–3):221–30

Organization of oligodendroglial membrane sheets. I: Association of myelin basic protein and 2',3'–cyclic nucleotide 3'–phosphohydrolase with cytoskeleton. Dyer CA, et al. **J Neurosci Res** 1989 Oct;24(2):201–11

Microheterogeneity of myelin basic proteins in the partially myelinated spinal roots of the Bar Harbor 129 ReJ muscular dystrophic mouse. John HA. **Neurosci Lett** 1990 Feb 16; 109(3):321–4

BIOSYNTHESIS

Expression of myelin basic protein isoforms in nonglial cells. Staugaitis SM, et al. **J Cell Biol** 1990 May;110(5):1719–27

CEREBROSPINAL FLUID

Determination of glial fibrillary acidic protein, S100, myelin basic protein and neuron specific enolase in cerebrospinal fluid from patients suffering from dementia. Vermuyten K. **Acta Neurol Belg** 1989 May–Oct;89(3–4):318

Diagnostic value of cerebrospinal fluid myelin basic protein in patients with neurological illness. Davies L, et al. **Clin Exp Neurol** 1987;24:5–10

CSF T–cell subsets in multiple sclerosis: relationship to cerebrospinal fluid myelin basic protein and clinical activity [see comments] Salmaggi A, et al. **J Neurol** 1989 Sep; 236(6):336–9 Comment in: J Neurol 1990 Apr;237(2):125.

Myelin basic protein detection [letter; comment] Peter JB. **Neurology** 1990 Jun;40(6):1007–8 Comment on: Neurology 1989 Aug;39(8):1127–9.

CHEMICAL SYNTHESIS

A synthetic peptide substrate for selective assay of protein kinase C. Yasuda I, et al. **Biochem Biophys Res Commun** 1990 Feb 14;166(3):1220–7

GENETICS

DNA length polymorphism 5' to the myelin basic protein gene is associated with multiple sclerosis. Boylan KB, et al. **Ann Neurol** 1990 Mar;27(3):291–7

The dysmyelinating mouse mutations shiverer (shi) and myelin deficient (shimld). Readhead C, et al. **Behav Genet** 1990 Mar;20(2):213–34 (131 ref.)

Regulation of brain–specific transcription of the mouse myelin basic protein gene: function of the NFI–binding site in the distal promoter. Aoyama A, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):648–53

Differential exon expression in myelin basic protein transcripts during central nervous system (CNS) remyelination. Jordan CA, et al. **Cell Mol Neurobiol** 1990 Mar;10(1):3–18

Cyclic AMP regulation of P0 glycoprotein and myelin basic protein gene expression in semi–differentiated peripheral neurinoma cell line D6P2T. Gandelman KY, et al. **Development** 1989 Jun;106(2):389–98

Post–transcriptional events are responsible for low expression of myelin basic protein in myelin deficient mice: role of natural antisense RNA. Tosic M, et al. **EMBO J** 1990 Feb; 9(2):401–6

Repetitive DNA (TGGA)n 5' to the human myelin basic protein gene: a new form of oligonucleotide repetitive sequence showing length polymorphism. Boylan KB, et al. **Genomics** 1990 Jan;6(1):16–22

Expression of viral and myelin gene transcripts in a murine CNS demyelinating disease caused by a coronavirus. Jordan CA, et al. **GLIA** 1989;2(5):318–29

Myelin basic protein gene transcription. Identification of proximal and distal cis–acting regulatory elements. Devine–Beach K, et al. **J Biol Chem** 1990 Aug 15; 265(23):13830–5

The myelin proteins of the shark brain are similar to the myelin proteins of the mammalian peripheral nervous system. Saavedra RA, et al. **J Mol Evol** 1989 Aug; 29(2):149–56

Developmental expression of myelin proteolipid, basic protein, and 2',3'–cyclic nucleotide 3'–phosphodiesterase transcripts in different rat brain regions. Kanfer J, et al. **J Mol Neurosci** 1989;1(1):39–46

Distribution of myelin basic protein and P2 mRNAs in rabbit spinal cord oligodendrocytes. Gillespie CS, et al. **J Neurochem** 1990 May;54(5):1556–61

Expression of a novel transcript of the myelin basic protein gene. Kitamura K, et al. **J Neurochem** 1990 Jun; 54(6):2032–41

Conservation throughout vertebrate evolution of the predicted beta–strands in myelin basic protein. Stoner GL. **J Neurochem** 1990 Oct;55(4):1404–11

Axonal modulation of myelin gene expression in the peripheral nerve. LeBlanc AC, et al. **J Neurosci Res** 1990 Jul;26(3):317–26

Unwrapping the genes of myelin. Lemke G. **Neuron** 1988 Sep;1(7):535–43 (85 ref.)

A novel mutation in myelin–deficient mice results in unstable myelin basic protein gene transcripts. Popko B, et al. **Neuron** 1988 May;1(3):221–5

Rapid preimplantation detection of mutant (shiverer) and normal alleles of the mouse myelin basic protein gene allowing selective implantation and birth of live young. Gomez CM, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4481–4

Amino acid variations at a single residue in an autoimmune peptide profoundly affect its properties: T–cell activation, major histocompatibility complex binding, and ability to block experimental allergic encephalomyelitis. Kumar V, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1337–41

Myelin basic protein and myelinogenesis: morphometric analysis of normal, mutant and transgenic central nervous system. Shine HD, et al. **Prog Clin Biol Res** 1990;336:81–92

IMMUNOLOGY

Follow–up of myelin damage in HIV–associated cryptococcal meningitis. First evidence of anti–myelin basic protein antibodies in the cerebrospinal fluid. Mastroianni CM, et al. **Acta Neurol (Napoli)** 1990 Feb; 12(1):85–7

Antimyelin basic protein and antimyelin antibody–producing cells in multiple sclerosis. Olsson T, et al. **Ann Neurol** 1990 Feb;27(2):132–6

Human cytotoxic T–cell recognition of a synthetic peptide of myelin basic protein. Richert JR, et al. **Ann Neurol** 1989 Sep;26(3):342–6

Antigen–antibody binding in reverse micelles: interaction of monoclonal antibodies with a myelin basic protein peptide. Groome NP, et al. **Biochem Int** 1990;21(1):1–7

Cellular immunity to bovine myelin basic protein in rats bearing malignant fibrous histiocytoma. Ribeiro RA, et al. **Braz J Med Biol Res** 1989;22(6):721–4

Autoimmune T cells: immune recognition of normal and variant peptide epitopes and peptide–based therapy. Urban JL, et al. **Cell** 1989 Oct 20;59(2):257–71

Antigen processing of myelin basic protein is required prior to recognition by T cells inducing EAE. Cross AH, et al. **Cell Immunol** 1990 Aug;129(1):22–31

Generation of CD4+ blastoid T cells in recipients of BP/IFA–sensitized spleen cells. Kira J, et al. **Cell Immunol** 1990 Jun;128(1):130–41

Suppressor cell regulation of encephalitogenic T cell lines: generation of suppressor macrophages with cyclosporin A and myelin basic protein. Whitham RH, et al. **Cell Immunol** 1990 Apr 1;126(2):290–303

Preferential peptide specificity and HLA restriction of myelin basic protein–specific T cell clones derived from MS patients. Zhang JW, et al. **Cell Immunol** 1990 Aug; 129(1):189–98

Encephalitogenic epitopes of myelin basic protein. Fritz RB, et al. **Chem Immunol** 1989;46:101–25 (110 ref.)

Immune responses against myelin basic protein and/or galactocerebroside cross–react with viruses: implications for demyelinating disease. Fujinami RS.

Curr Top Microbiol Immunol 1989;145:93–100 (33 ref.)

Reversal of autoimmune encephalomyelitis by membranes presenting myelin basic protein–associated class II MHC molecule as an approach to immunotherapy of organ–specific autoimmune diseases. Ben–Nun A, et al. Eur J Immunol 1990 Feb;20(2):357–61

The role of serum factors in the suppression of experimental allergic encephalomyelitis: evidence for immunoregulation by antibody to the encephalitogenic peptide. MacPhee IA, et al. Immunology 1990 Aug;70(4):527–34

Limiting–dilution analysis of the frequency of myelin basic protein–reactive T cells in Lewis, PVG/c and BN rats. Implication for susceptibility to autoimmune encephalomyelitis. Matsumoto Y, et al. Immunology 1990 Feb;69(2):215–21

Class II–restricted bifunctional T–cell hybridomas reactive to self– and foreign myelin basic protein. Rayner DC, et al. Immunology 1990 Jul;70(3):365–71

Competition between foreign and self proteins in antigen presentation. Ovalbumin can inhibit activation of myelin basic protein–specific T cells. Gautam AM, et al. J Immunol 1990 Feb 15;144(4):1177–80

Antibodies specific for VB8 receptor peptide suppress experimental autoimmune encephalomyelitis. Hashim GA, et al. J Immunol 1990 Jun 15;144(12):4621–7

Distinct accessory cell requirements define two types of rat T cell hybridomas specific for unique determinants in the encephalitogenic 68–86 region of myelin basic protein. Mannie MD, et al. J Immunol 1990 Jan 15;144(2):440–50

Fine specificity and HLA restriction of myelin basic protein–specific cytotoxic T cell lines from multiple sclerosis patients and healthy individuals. Martin R, et al. J Immunol 1990 Jul 15;145(2):540–8

Functional heterogeneity among CD4+ encephalitogenic T cells in recruitment of CD8+ T cells in experimental autoimmune encephalomyelitis. Sun D, et al. J Immunol 1989 Nov 1;143(9):2867–72

Determinants of human myelin basic protein that induce encephalitogenic T cells in Lewis rats. Vandenbark AA, et al. J Immunol 1989 Dec 1;143(11):3512–6

A study on demyelinating effect of galactocerebroside in experimental allergic encephalomyelitis. Khang SK, et al. J Korean Med Sci 1988 Sep;3(3):89–98

Conformational correlates of the epitopes of human myelin basic protein peptide 80–89. Whitaker JN, et al. J Neurochem 1990 Aug;55(2):568–76

Characterization of basic protein–specific T cell lines selected from Lewis rats with relapsing experimental autoimmune encephalomyelitis. Bourdette DN, et al. J Neuroimmunol 1990 Jan;26(1):81–5

Clonotypic chromosomal aberrations in long–term lines of myelin–specific rat T lymphocytes. Bradl M, et al. J Neuroimmunol 1989 Sep;24(1–2):95–104

Human T lymphocytes reactive with whole myelin recognize predominantly myelin basic protein. Burns JB, et al. J Neuroimmunol 1989 Sep;24(1–2):67–74

Localization of an encephalitogenic epitope for the SJL mouse in the N–terminal region of myelin basic protein. Fritz RB, et al. J Neuroimmunol 1990 Mar;26(3):239–43

Oral tolerance in experimental autoimmune encephalomyelitis: serum and salivary antibody responses. Fuller KA, et al. J Neuroimmunol 1990 Jun;28(1):15–26

Spontaneous development in vitro of a myelin basic protein–specific suppressor T cell line. Huang SK, et al. J Neuroimmunol 1989 Dec;25(2–3):177–83

Persistent anti–myelin basic protein IgG antibody response in multiple sclerosis cerebrospinal fluid. Link H, et al. J Neuroimmunol 1990 Aug;28(3):237–48

The N– and C–terminal boundaries of myelin basic protein determinants required for encephalitogenic and proliferative responses of Lewis rat T cells. Mannie MD, et al. J Neuroimmunol 1990 Mar;26(3):201–11

New minimum length requirement for a T cell epitope for experimental allergic neuritis. Olee T, et al. J Neuroimmunol 1990 May;27(2–3):187–90

Demyelination and early remyelination in experimental allergic encephalomyelitis passively transferred with myelin basic protein–sensitized lymphocytes in the Lewis rat. Pender MP, et al. J Neuroimmunol 1989 Dec; 25(2–3):125–42

Antibody to peptides of human myelin basic protein in post–rabies vaccine encephalomyelitis sera. Ubol S, et al. J Neuroimmunol 1990 Feb;26(2):107–11

Murine monoclonal anti–myelin basic protein (MBP) antibodies inhibit proliferation and cytotoxicity of MBP–specific human T cell clones. Zhang JW, et al. J Neuroimmunol 1989 Sep;24(1–2):87–94

Human B cell lines secreting IgM antibody specific for myelin basic protein. Zhang JW, et al. J Neuroimmunol 1989 Sep; 24(1–2):9–16

A myelin basic protein antibody cascade in purified IgG from cerebrospinal fluid of multiple sclerosis patients. Warren KG, et al. J Neurol Sci 1990 Apr;96(1):19–27

Defective T helper cell epitope responsible for the failure of region 69–84 of the human myelin basic protein to induce experimental allergic encephalomyelitis in the Lewis rat. Hashim GA, et al. J Neurosci Res 1989 Oct;24(2):222–30

T lymphocytes can recognize determinants unique to neuropeptides of guinea pig myelin basic protein containing a single D–isomer amino acid substitution. Levy RB, et al. J Neurosci Res 1990 Jan;25(1):29–38

Experimental autoimmune encephalomyelitis in the maturing central nervous system. Transfer of myelin basic protein–specific T line lymphocytes to neonatal Lewis rats. Umehara F, et al. Lab Invest 1990 Feb;62(2):147–55

T–cell recognition of an immunodominant myelin basic protein epitope in multiple sclerosis. Ota K, et al. Nature 1990 Jul 12;346(6280):183–7

Induction of resistance to experimental allergic encephalomyelitis in newborn guinea pigs. Staykova M, et al. Neurol Psychiatr (Bucur) 1989 Jul–Sep;27(3):225–9

Antibodies to the myelin membrane. Day ED. Prog Clin Biol Res 1990;336:109–92 (243 ref.)

Myelin basic protein, MHC restriction molecules and T cell repertoire. Vandenbark AA, et al. Prog Clin Biol Res 1990; 336:93–108 (29 ref.)

T cells responsive to myelin basic protein in patients with multiple sclerosis. Allegretta M, et al. Science 1990 Feb 9;247(4943):718–21

Shared human T cell receptor V beta usage to immunodominant regions of myelin basic protein. Wucherpfennig KW, et al. Science 1990 May 25; 248(4958):1016–9

[Assay of myelin basic protein (MBP) antibody in the cerebrospinal fluid and serum of rabbits with experimental allergic encephalomyelitis (EAE) before and after sensitization] Gao Y. Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1990 Jun; 23(3):165–7, 190–1 (Eng. Abstr.) (Chi)

[Clinical significance of myelin basic protein and anti–myelin basic protein antibody] Ohta M. Nippon Rinsho 1990 Feb; 48 Suppl:607–10 (Jpn)

ISOLATION & PURIFICATION

Secondary structure of charge isomers of myelin basic protein before and after phosphorylation. Ramwani JJ, et al. Biochemistry 1989 Aug 8;28(16):6538–43

Identification of MARPP (14–20), morphine– and cyclic AMP–regulated phosphoproteins of 14–20 kDa, as myelin basic proteins: evidence for their acute and chronic regulation by morphine in rat brain. Guitart X, et al. Brain Res 1990 May 14;516(1):57–65

Rapid method based on reversed–phase high–performance liquid chromatography for purification of human myelin basic protein and its thrombic and endoproteinase Lys–C peptides. Giegerich G, et al. J Chromatogr 1990 Jun 8; 528(1):79–90

METABOLISM

Changes in glial cell markers in recent and old demyelinated lesions in central pontine myelinolysis. Gocht A, et al. Acta Neuropathol (Berl) 1990;80(1):46–58

Phosphorylation of myelin basic protein and peptides by ganglioside–stimulated protein kinase. Chan KF. Biochem Biophys Res Commun 1989 Nov 30;165(1):93–100

Myelin basic protein is affected by reduced synthesis of myelin proteolipid protein in the jimpy mouse. Fannon AM, et al. Biochem J 1990 May 15;268(1):105–10

Interactions between bovine myelin basic protein and zwitterionic lysophospholipids. Gow A, et al. Biochemistry 1990 Feb 6;29(5):1142–7

Interactions of myelin basic protein with mixed dodecylphosphocholine/palmitoyllysophosphatidic acid micelles. Mendz GL, et al. Biochemistry 1990 Mar 6; 29(9):2304–11

Spin–label ESR studies on the interaction of bovine spinal cord myelin basic protein with dimyristoylphosphatidylglycerol dispersions. Sankaram MB, et al. Biochemistry 1989 Dec 12;28(25):9685–91

Interaction of two complementary fragments of the bovine spinal cord myelin basic protein with phospholipid bilayers. An ESR spin–label study. Sankaram MB, et al. Biochemistry 1989 Dec 12;28(25):9692–8

Substrate specificity for myelin basic protein–specific protein methylase I. Ghosh SK, et al. Biochim Biophys Acta 1990 Jun 19;1039(2):142–8

The development of the transferrin–transferrin receptor system in relation to astrocytes, MBP and galactocerebroside in normal and myelin–deficient rat optic nerves. Lin HH, et al. Brain Res Dev Brain Res 1989 Oct 1;49(2):281–93

Quaking*jimpy double mutant mice: additional evidence for independence of primary deficits in jimpy. Billings–Gagliardi S, et al. Brain Res Mol Brain Res 1990 Apr;7(3):189–98

Normal composition of the major lipids and the distribution of their fatty acids in central nervous system myelin further discriminate mld from shiverer mice. Fressinaud C, et al. Dev Neurosci 1990;12(1):61–72

Phosphorylation of myelin basic protein in intact oligodendrocytes: inhibition by galactosylsphingosine and cyclic AMP. Vartanian T, et al. GLIA 1989;2(5):370–9

Kinetics of carboxylmethylation of the charge isoforms of myelin basic protein by protein methyltransferase II. Caamaño CA, et al. J Neurochem 1989 Dec;53(6):1883–8

Shark myelin basic protein: amino acid sequence, secondary structure, and self–association. Milne TJ, et al. J Neurochem 1990 Sep;55(3):950–5

Myelin basic protein: interaction with calmodulin and gangliosides. Chan KF, et al. J Neurosci Res 1990 Apr; 25(4):535–44

Organization of oligodendroglial membrane sheets: II. Galactocerebroside:antibody interactions signal changes in cytoskeleton and myelin basic protein. Dyer CA, et al. J Neurosci Res 1989 Oct;24(2):212–21

Myelin basic protein: a dynamically changing structure. Moscarello MA. Prog Clin Biol Res 1990;336:25–48 (24 ref.)

PHARMACOKINETICS

Selectivity of interaction of phospholipids with bovine spinal cord myelin basic protein studied by spin–label electron spin resonance. Sankaram MB, et al. Biochemistry 1989 Dec 12;28(25):9699–707

PHARMACOLOGY

Myelin basic protein inhibits the calcium response to phytohaemagglutinin in human lymphocytes. Bellini T, et al. Biosci Rep 1990 Feb;10(1):55–9

Interaction and fusion of unilamellar vesicles containing cerebrosides and sulfatides induced by myelin basic protein. Maggio B, et al. Chem Phys Lipids 1989 Oct;51(2):127–36

Characteristics of in vitro cytotoxic effects of myelin basic protein–reactive T cell lines on syngeneic oligodendrocytes. Kawai K, et al. J Neuroimmunol 1990 Jan;26(1):57–67

Induction of experimental allergic neuritis with synthetic peptides from myelin P2 protein. Shin HC, et al. Neurosci Lett 1989 Jul 31;102(2–3):309–12

PHYSIOLOGY

A mitogen for Schwann cells is derived from myelin basic protein. Baichwal RR, et al. Biochem Biophys Res Commun 1989 Oct 31;164(2):883–8

ENCEPHALOCELE

Spheno–maxillary meningo–encephalocele. A case report. Morris WM, et al. J Craniomaxillofac Surg 1989 Nov; 17(8):359–62 (4 ref.)

Large encephalocele at the anterior fontanel—case report. Kitano I, et al. Neurol Med Chir (Tokyo) 1989 May; 29(5):414–6

CHEMICALLY INDUCED

Triamcinolone acetonide–induced meningocele and meningoencephalocele in rhesus monkeys. Hendrickx AG, et al. Am J Pathol 1990 Mar;136(3):725–7

COMPLICATIONS

Kluver–Bucy syndrome following recovery from transtentorial herniation. Rossitch E Jr, et al. Br J Neurosurg 1989;3(4):503–6

Lateral frontal encephalocele associated with dysplasia of orbit, eyeball, and eyelid. Kulali A, et al. Childs Nerv Syst 1990 Jan;6(1):54–6

Bilateral orbital encephaloceles. An unusual cause of exophthalmos. Cataltepe O, et al. J Clin Neuro Ophthalmol 1990 Jun;10(2):131–4

Corpus callosum lipoma with frontal encephalocele. Rao AS, et al. Neuroradiology 1990;32(1):50–2

The Morning Glory syndrome associated with sphenoethmoidal encephalocele. Hope–Ross M, et al. Ophthalmic Paediatr Genet 1990 Jun;11(2):147–53 (18 ref.)

[A rare case of recurrent meningitis: intranasal encephalocele] Giunta G, et al. Minerva Med 1990 Jul–Aug;81(7–8):577–81 (Eng. Abstr.) (Ita)

[Demonstration of a vascular lesion by intraoperative portable DSA in a case of intracerebral hematoma with impending herniation] Meguro K, et al. No Shinkei Geka 1990 May;18(5):453–6 (Eng. Abstr.) (Jpn)

DIAGNOSIS

Morning glory syndrome and basal encephalocele mimicking a pituitary adenoma. Storms M, et al. Bull Soc Belge Ophtalmol 1987;225 Pt 2:97–103

A case of temporal encephalocele [letter] Martinez–Lage JF. Childs Nerv Syst 1990 Jun;6(4):185

An unusual case of temporal encephalocele. Tranmer BI, et al. Childs Nerv Syst 1989 Dec;5(6):371–3

Prenatal ultrasonic diagnosis of occipital encephalocele [letter] Mishra GK, et al. Indian Pediatr 1989 Jun; 26(6):610–2

Contributory aspects of MRI in the evaluation of basal encephaloceles. Poncelet V, et al. J Neuroradiol 1989; 16(3):214–20 (Eng, Fre)

Neonatal ultrasound casebook. Ultrasound detection of cerebellum in occipital encephalocele. Bracero LA, et al. J Perinatol 1990 Jun;10(2):211–3

Magnetic resonance imaging of Kernohan's notch. Cohen AR, et al. Neurosurgery 1990 Aug;27(2):205–7

Prenatal diagnosis of anterior parietal encephalocele with transvaginal sonography. Cullen MT, et al. Obstet Gynecol 1990 Mar;75(3 Pt 2):489–91

EPIDEMIOLOGY

Major congenital neurologic malformations. A 17–year survey. Wiswell TE, et al. Am J Dis Child 1990 Jan; 144(1):61–7

Cranium bifidum in northern Nigeria. Mabogunje OA. Childs Nerv Syst 1990 Mar;6(2):95–8

Occipital encephalocoeles in 57 Nigerian children: a retrospective analysis. Shokunbi T, et al. **Childs Nerv Syst** 1990 Mar;6(2):99–102

ETIOLOGY

Transtentorial herniation caused by an intracranial mass lesion following high-dose methotrexate. Villareal B, et al. **Am J Pediatr Hematol Oncol** 1990 Summer;12(2):215–9

CSF otorrhoea secondary to a tegmen defect. Robson AK, et al. **J Laryngol Otol** 1989 Oct;103(10):980–2

Multiple frontobasal meningoencephaloceles in neurofibromatosis. Probst C. **Neurofibromatosis** 1989; 2(4):233–7

Levodopa-responsive parkinsonism following central herniation due to bilateral subdural hematomas. Trosch RM, et al. **Neurology** 1990 Feb;40(2):376–7

Dandy-Walker cyst upward herniation: the role of magnetic resonance imaging and double shunts. Pillay P, et al. **Pediatr Neurosci** 1989;15(2):74–8; discussion 78–9

[Overview of the classification and treatment of premature craniosynostosis. On the development of encephalocele following surgery of craniostenosis] Mattigk G. **Kinderarztl Prax** 1989 Sep;57(9):429–33 (Eng. Abstr.) **(Ger)**

[A cerebral hernia of the postoperative mastoidal cavity (current aspects of the problem)] Ovchinnikov IuM, et al. **Vestn Otorinolaringol** 1990 Mar–Apr;(2):68–72 (18 ref.) **(Rus)**

GENETICS

Meckel–Gruber syndrome. A lethal combination of abnormalities. Coard KC, et al. **West Indian Med J** 1990 Mar;39(1):52–6

HISTORY

Neonatology—then and now. Central nervous system investigation (1961). Walker CH. **Arch Dis Child** 1990 Feb; 65(2):246

PATHOLOGY

An unusual type of acrocephalosyndactyly with bilateral parietooccipital "encephalocele," micropenis, and severe mental retardation. Lorenz P, et al. **Am J Med Genet** 1990 Jul;36(3):265–8

Pathologic quiz case 2. Congenital middle ear encephalocele (CMEE). Shupak A, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):744–7

Fatal cerebral herniation from brain metastasis following fiberopti endoscopy [letter] Mohandas KM, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):587–8

Rudimentary cephalocele or neural crest remnant? Drapkin AJ. **Neurosurgery** 1990 Apr;26(4):667–73; discussion 674 (41 ref.)

[Transethmoidal encephalomeningocele in neonate—report of two cases and review of literatures] Hayashi T, et al. **No To Shinkei** 1990 Feb;42(2):175–82 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Transtentorial brain herniation in the monkey: analysis of brain stem auditory and somatosensory evoked potentials. Stone JL, et al. **Neurosurgery** 1990 Jan;26(1):26–31

PREVENTION & CONTROL

Minimizing the risk of brain herniation during treatment of diabetic ketoacidemia: a retrospective and prospective study. Harris GD, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):22–31

RADIOGRAPHY

Transphenoidal meningohydroencephalocoele. Durham LH, et al. **Br J Neurosurg** 1988;2(3):407–9

CT signs of ascending transtentorial cerebellar herniation. Hahn FJ, et al. **J Comput Assist Tomogr** 1989 Nov–Dec; 13(6):1091–2

Anatomy-computerized tomography correlations in transtentorial brain herniation. Nguyen JP, et al. **J Neuroradiol** 1989;16(3):181–96 **(Eng, Fre)**

Computed tomographic features of central descending transtentorial herniation—case report. Hattori T, et al. **Neurol Med Chir (Tokyo)** 1990 Jan;30(1):51–3

Meckel syndrome in twins. Kural N, et al. **Turk J Pediatr** 1989 Jan–Mar;31(1):79–82

SURGERY

Transfacial surgical treatment and anthropometric considerations of frontoethmoidal meningoencephaloceles. Fuente del Campo A, et al. **Ann Plast Surg** 1989 Nov; 23(5):377–89

Sincipital encephalocoeles: a review of clinical presentations and methods of surgical repair in Ibadan, Nigeria. Shokunbi MT, et al. **Br J Neurosurg** 1988;2(4):497–501

Living with chronic illness [letter] Charney EB. **Dev Med Child Neurol** 1990 Jun;32(6):554

The surgical correction of fronto-ethmoidal meningo-encephaloceles. Lello GE, et al. **J Craniomaxillofac Surg** 1989 Oct;17(7):293–8

Endoscopic management of cerebrospinal fluid leaks and cephaloceles. Mattox DE, et al. **Laryngoscope** 1990 Aug; 100(8):857–62

Total cranial vault reconstruction for parietal encephalocele. Berman DE, et al. **Plast Reconstr Surg** 1990 Sep;86(3):554–7

Surgical exploration before computed tomography scanning in children with traumatic tentorial herniation. Andrews BT, et al. **Surg Neurol** 1989 Dec;32(6):434–8

THERAPY

Rapid management of intracranial hypertension to reverse transtentorial herniation. Verderber L, et al. **J Tenn Med Assoc** 1990 Mar;83(3):119–23

Treatment of hemispheric collapse and herniation beneath the falx in a case of shunted hydrocephalus. Lam CH, et al. **Surg Neurol** 1990 Mar;33(3):202–5

ENCEPHALOMALACIA

CHEMICALLY INDUCED

Indomethacin and ischemic brain injury in neonates [letter; comment] Haddad J, et al. **J Pediatr** 1990 May; 116(5):839–40 Comment on: J Pediatr 1989 Oct;115(4):631–7.

COMPLICATIONS

The association of fetal and newborn metabolic acidosis with severe periventricular leukomalacia in the preterm newborn. Low JA, et al. **Am J Obstet Gynecol** 1990 Apr; 162(4):977–81; discussion 981–2

Neurodevelopmental outcome of transient neonatal intracerebral echodensities. Appleton RE, et al. **Arch Dis Child** 1990 Jan;65(1 Spec No):27–9

Foville's syndrome in infancy: report of a case. Srivastava DK, et al. **Indian Pediatr** 1965 Feb;2(2):49–50

CONGENITAL

[Multicystic encephalomalacia in twin pregnancies] Sans Fito A, et al. **An Esp Pediatr** 1990 Feb;32(2):163–6 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Neonatal periventricular leukomalacia: diagnosis and monitoring by real-time ultrasound. Váradi V, et al. **Acta Paediatr Hung** 1990;30(1):43–51

Value of sonography in the diagnosis of intracranial hemorrhage and periventricular leukomalacia: a postmortem study of 35 cases. Carson SC, et al. **AJNR** 1990 Jul–Aug;11(4):677–83

Value of sonography in the diagnosis of intracranial hemorrhage and periventricular leukomalacia: a postmortem study of 35 cases. Carson SC, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):595–601

Cranial sonography: intracranial hemorrhage, periventricular leukomalacia, and asphyxia. Hay TC, et al. **Clin Diagn Ultrasound** 1989;24:25–42 (33 ref.)

Periventricular leukomalacia: ultrasonic and neuropathological correlations. Rodriguez J, et al. **Dev Med Child Neurol** 1990 Apr;32(4):347–52

Prediction of neurodevelopmental outcome in the preterm infant: MR-staged myelination compared with cranial US. Guit GL, et al. **Radiology** 1990 Apr;175(1):107–9

[Value of echoencephalography in the diagnosis of periventricular leukomalacia in children and the prognosis of their development] Ozerova OE, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):59–62 (Eng. Abstr.) **(Rus)**

[Ganglio-thalamic encephalomalacia. Ultrasonic diagnosis] Castro Conde JR, et al. **An Esp Pediatr** 1989 Jul;31(1):43–8 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Early and late neuropathological changes in perinatal white matter damage. Dambska M, et al. **J Child Neurol** 1989 Oct;4(4):291–8

Morphometric analysis of the human infant brain: effects of intraventricular hemorrhage and periventricular leukomalacia. de la Monte SM, et al. **J Child Neurol** 1990 Apr;5(2):101–10

Complications from in utero death of a monozygous co-twin. Fisher JE, et al. **Pediatr Pathol** 1989;9(6):765–71

[Multicystic encephalomalacia in an adult—a case report] Sunada Y, et al. **Rinsho Shinkeigaku** 1989 Oct;29(10):1261–4 (Eng. Abstr.) **(Jpn)**

[Topography and structure of secondary brain damage in edema associated with supratentorial foci of encephalomalacia] Szpakowa GM. **Neuropatol Pol** 1989; 27(2):177–98 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

Continuous cerebral electrical impedance monitoring in sick preterm infants. Colditz PB, et al. **Eur J Pediatr** 1990 Mar; 149(6):428–31

PSYCHOLOGY

Periventricular echodensities detected by cranial ultrasonography: usefulness in predicting neurodevelopmental outcome in low-birth-weight, preterm infants. Bennett FC, et al. **Pediatrics** 1990 Mar;85(3 Pt 2):400–4

VETERINARY

Sulfur-induced polioencephalomalacia in sheep: some biochemical changes. Gooneratne SR, et al. **Can J Vet Res** 1989 Oct;53(4):462–7

Molds, mycotoxins, and mycotoxicosis. Hintz HF. **Vet Clin North Am Equine Pract** 1990 Aug;6(2):419–31 (58 ref.)

ENCEPHALOMYELITIS

CEREBROSPINAL FLUID

[Eosinophilic granulocytes in the cerebrospinal fluid] Kölmel HW, et al. **Fortschr Neurol Psychiatr** 1990 May;58(5):191–9 (93 ref.) (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Unusual manifestations of Epstein-Barr virus encephalomyelitis. McKendall RR, et al. **Infection** 1990 Jan–Feb;18(1):33–5

[Meningo-encephalomyelitis in Lyme disease] Pincemaille O, et al. **Arch Fr Pediatr** 1990 Jan;47(1):39–41 (Eng. Abstr.) **(Fre)**

[The course and outcome of tuberculous meningoencephalomyelitis] Gasparian AA, et al. **Zh Nevropatol Psikhiatr** 1990;90(2):100–4 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Acute disseminated encephalomyelitis. MRI findings and the distinction from multiple sclerosis. Kesselring J, et al. **Brain** 1990 Apr;113 (Pt 2):291–302

Chronic persistent nodular polioencephalomyelitis presenting with brain atrophy. Kurokawa Y, et al. **Clin Neuropathol** 1990 May–Jun;9(3):129–35

Magnetic resonance imaging of inflammatory and demyelinating white-matter diseases of childhood. Miller DH, et al. **Dev Med Child Neurol** 1990 Feb;32(2):97–107

Progressive encephalomyelitis with rigidity: a case report with magnetic resonance imaging findings. McCombe PA, et al. **J Neurol Neurosurg Psychiatry** 1989 Dec; 52(12):1429–31

Magnetic resonance imaging in asymptomatic disseminated vasculomyelinopathy. Poser CM. **J Neurol Sci** 1989 Dec; 94(1–3):69–77

Chronic fatigue syndrome, ME and fibromyalgia [letter] Wigley RD. **N Z Med J** 1990 Aug 8;103(895):378

[Life-threatening encephalomyelitis in the 2d stage of Borrelia burgdorferi infection] Lessmann JJ, et al. **Nervenarzt** 1989 Nov;60(11):706–9 **(Ger)**

[Acute disseminated encephalomyelitis affecting medulla and upper cervical cord—comparison of the clinical signs and MRI findings] Muramoto T, et al. **Rinsho Shinkeigaku** 1989 Aug;29(8):1013–6 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Astrocytosis and cathepsin D activity in experimental measles encephalomyelitis. Bever CT Jr, et al. **Neurochem Res** 1990 Jul;15(7):667–71

ETIOLOGY

Multiple sclerosis and zoster encephalomyelitis: a probable common etiopathogenesis. Viel R. **Adv Exp Med Biol** 1989; 257:289–91 (13 ref.)

Meningoradiculitis and encephalomyelitis due to Borrelia burgdorferi: a follow-up study of 72 patients over 27 years. Krüger H, et al. **J Neurol** 1989 Sep;236(6):322–8

[Cytomegalovirus encephalo-myelo-radiculitis in acquired immunodeficiency syndrome] Chimelli L, et al. **Rev Neurol (Paris)** 1990;146(5):354–60 (35 ref.) (Eng. Abstr.) **(Fre)**

[Guillain-Barré syndrome] Rzeszutko W, et al. **Wiad Lek** 1989 May 1;42(9):616–21 (Eng. Abstr.) **(Pol)**

[Experimental generalized herpes simplex in guinea pigs with retrobulbar infection] Kolomiets AG, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):376–9 (Eng. Abstr.) **(Rus)**

[Meningoencephalomyelitis caused by Borrelia burgdorferi: a case without epidemiologic history or chronic migratory erythema] Ponz E, et al. **Med Clin (Barc)** 1989 Sep 9; 93(6):218–20 (Eng. Abstr.) **(Spa)**

GENETICS

An analysis of the role of tumor necrosis factor in the phenotypic expression of actively induced experimental allergic orchitis and experimental allergic encephalomyelitis. Teuscher C, et al. **Clin Immunol Immunopathol** 1990 Mar;54(3):442–53

Identification of a locus on mouse chromosome 3 involved in differential susceptibility to Theiler's murine encephalomyelitis virus-induced demyelinating disease. Melvold RW, et al. **J Virol** 1990 Feb;64(2):686–90

HISTORY

Darwin's illness [letter] Field EJ. **Lancet** 1990 Sep 29; 336(8718):826

IMMUNOLOGY

IgG (Gm) allotypes in acute measles encephalomyelitis and

subacute sclerosing panencephalitis. Lebon P, et al. **Exp Clin Immunogenet** 1987;4(3):125–8

Antibody to peptides of human myelin basic protein in post-rabies vaccine encephalomyelitis sera. Ubol S, et al. **J Neuroimmunol** 1990 Feb;26(2):107–11

Analysis of a neuronal antigen (Hu) expression in the developing rat brain detected by autoantibodies from patients with paraneoplastic encephalomyelitis. Graus F, et al. **Neurosci Lett** 1990 Apr 20;112(1):14–8

Monophasic autoimmune inflammatory diseases of the CNS and PNS. Griffin DE.
Res Publ Assoc Res Nerv Ment Dis 1990;68:91–104 (80 ref.)

[Encephalomyelitis with elevated serum antibody against Borrelia burgdorferi] Shimizu T, et al.
Rinsho Shinkeigaku 1990 Mar;30(3):314–6 (Eng. Abstr.) **(Jpn)**

METABOLISM

Immunohistochemical analysis of the immune reaction in the nervous system in paraneoplastic encephalomyelitis. Graus F, et al. **Neurology** 1990 Feb;40(2):219–22

MICROBIOLOGY

Spontaneous recovery from the encephalomyelitis in mice caused by street rabies virus. Jackson AC, et al.
Neuropathol Appl Neurobiol 1989 Sep–Oct;15(5):459–75

PATHOLOGY

Paraneoplastic encephalomyelitis. An autopsy case with encephalitis principally confined to the thalamus and associated with pulmonary and gastric cancers. Nakahama M, et al. **Acta Pathol Jpn** 1990 May;40(5):371–5

White matter lesions of AIDS encephalomyelitis [letter] Poser CM. **Lancet** 1990 Sep 22;336(8717):757–8

[Chronic encephalitis with mesencephalic predominance. A clinico-pathologic case] Dubas F, et al.
Rev Neurol (Paris) 1990;146(6–7):447–9 (Eng. Abstr.) **(Fre)**

PREVENTION & CONTROL

[The use of methisazone for preventing viral encephalitis and encephalomyelitis in an experiment in white mice] Tarasenko AB, et al. **Vopr Virusol** 1990 Mar–Apr; 35(2):158–60 **(Rus)**

RADIOGRAPHY

Serial cerebral CT abnormalities in relapsing acute disseminated encephalomyelitis. Walker RW, et al.
J Neurol Neurosurg Psychiatry 1989 Sep;52(9):1100–2

Postinfectious encephalomyelitis with localized basal ganglia involvement. Donovan MK, et al. **Pediatr Neurol** 1989 Sep–Oct;5(5):311–3

RADIONUCLIDE IMAGING

[Positron emission tomography in acute disseminated encephalomyelitis: a case report] Tabata K, et al.
Kaku Igaku 1990 Mar;27(3):261–5 (Eng. Abstr.) **(Jpn)**

VETERINARY

A case report: encephalitis in lions. Pathological and virological findings. Truyen U, et al.
DTW Dtsch Tierarztl Wochenschr 1990 Feb;97(2):89–91

Protozoal encephalomyelitis in horses: 82 cases (1972–1986). Boy MG, et al. **J Am Vet Med Assoc** 1990 Feb 15; 196(4):632–4

Electrophoretic determination of albumin and gamma globulin concentrations in the cerebrospinal fluid of dogs with encephalomyelitis attributable to canine distemper virus infection: 13 cases (1980–1987). Sorjonen DC, et al. **J Am Vet Med Assoc** 1989 Oct 1;195(7):977–80

Epidemiology of equine protozoal myeloencephalitis in North America based on histologically confirmed cases. A report. Fayer R, et al. **J Vet Intern Med** 1990 Mar–Apr; 4(2):54–7

Ovine sporozoan encephalomyelitis linked to Sarcocystis infection. Dubey JP, et al. **Vet Parasitol** 1989 Nov; 34(1–2):159–63

Neospora canium encephalomyelitis in a British dog. Dubey JP, et al. **Vet Rec** 1990 Feb 24;126(8):193–4

[Bovine spongiform encephalopathy (BSE), a renewed appeal] Schreuder BE. **Tijdschr Diergeneeskd** 1990 Feb 15; 115(4):175 **(Dut)**

ENCEPHALOMYELITIS, ALLERGIC

see related

ENCEPHALITOGENIC BASIC PROTEINS

Cellular and molecular aspects of the pathomechanism and therapy of murine experimental allergic encephalomyelitis. Tabira T. **Crit Rev Neurobiol** 1989;5(2):113–42 (185 ref.)

BLOOD

Magnetic resonance imaging and peripheral blood abnormalities in experimental allergic encephalomyelitis. Rose LM, et al. **Biomed Pharmacother** 1989;43(5):347–53

[Biochemical and physico-chemical changes in albumin in dynamics of experimental allergic encephalomyelitis] Metal'nykova NP, et al. **Ukr Biokhim Zh** 1990 May-Jun; 62(3):43–8 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

Aggravation of acute experimental allergic encephalomyelitis by interleukin-2 in guinea pigs. Staykova M, et al.
Acta Neurol (Napoli) 1990 Jun;12(3):181–3

COMPLICATIONS

Vasculo-occlusive retinopathy in experimental allergic encephalomyelitis. von Sallmann L, et al.
Arch Ophthalmol 1967 Aug;78(2):112–20

Hypothermia due to an ascending impairment of shivering in hyperacute experimental allergic encephalomyelitis in the Lewis rat. Hansen LA, et al. **J Neurol Sci** 1989 Dec; 94(1–3):231–40

DIAGNOSIS

NMR studies in the relapsing experimental allergic encephalomyelitis (EAE) model of multiple sclerosis in the strain 13 guinea pig. Karlik SJ, et al.
Magn Reson Imaging 1989 Sep–Oct;7(5):463–73

NMR studies in experimental allergic encephalomyelitis: factors which contribute to T1 and T2 values. Karlik SJ, et al. **Magn Reson Med** 1990 Apr;14(1):1–11

DRUG THERAPY

Suppression of experimental autoimmune encephalomyelitis by sulfasalazine. Prosiegel M, et al. **Acta Neurol Scand** 1990 Mar;81(3):237–8

Pharmacological comparison of active and passive experimental allergic encephalomyelitis in the rat. Desai S, et al. **Agents Actions** 1989 Jun;27(3–4):351–5

Suppression of experimental allergic encephalomyelitis by EN3638: dependence on adjuvants and treatment schedules. Levine S, et al. **J Immunopharmacol** 1979;1(4):547–57

Of mice and MS. Antibodies cure a crippling disorder—but not in people [news] Rennie J. **Sci Am** 1990 Jul;263(1):25

[Mercaptopurine and silylated mercaptopurine the treatment of experimental allergic encephalomyelitis] Vohl ML, et al. **Arzneimittelforschung** 1990 Jan;40(1):80–4 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Encephalitogenic T cells in the B10.PL model of experimental allergic encephalomyelitis (EAE) are of the Th-1 lymphokine subtype. Ando DG, et al.
Cell Immunol 1989 Nov;124(1):132–43

Encephalitogenic epitopes of myelin basic protein. Fritz RB, et al. **Chem Immunol** 1989;46:101–25 (110 ref.)

Age as a factor determining susceptibility for experimental autoimmune encephalomyelitis in the rat. Källén B, et al. **Int Arch Allergy Appl Immunol** 1989;90(1):16–9

Determinants of human myelin basic protein that induce encephalitogenic T cells in Lewis rats. Vandenbark AA, et al. **J Immunol** 1989 Dec 1;143(11):3512–6

Induction of chronic relapsing experimental allergic encephalomyelitis in Biozzi mice. Baker D, et al.
J Neuroimmunol 1990 Aug;28(3):261–70

Immunologic differences in murine glial cells and their association with susceptibility to experimental allergic encephalomyelitis. Birnbaum G, et al. **J Neuroimmunol** 1990 Feb;26(2):119–29

Experimental autoimmune encephalomyelitis in the maturing central nervous system. Transfer of myelin basic protein-specific T line lymphocytes to neonatal Lewis rats. Umehara F, et al. **Lab Invest** 1990 Feb;62(2):147–55

[Disordered permeability of the hemato-encephalic barrier in the development of allergic processes of the nervous system] Zhitnukhin IuL, et al. **Patol Fiziol Eksp Ter** 1989 Sep–Oct;(5):44–7 (Eng. Abstr.) **(Rus)**

GENETICS

Minor lymphocyte stimulating (Mls) gene products in mice influence their genetic resistance or susceptibility to induction of autoimmune encephalomyelitis. Ben-Nun A, et al. **Eur J Immunol** 1990 Jan;20(1):195–200

Appearance of rats sensitive to experimental autoimmune encephalomyelitis in a previously resistant strain. Källén B, et al. **Exp Clin Immunogenet** 1988;5(4):213–7

The role of the neuroendocrine system in determining genetic susceptibility to experimental allergic encephalomyelitis in the rat. Mason D, et al. **Immunology** 1990 May;70(1):1–5

IMMUNOLOGY

In vivo treatment of rats with monoclonal antibodies against gamma interferon: effects on experimental allergic neuritis. Strigård K, et al. **Acta Neurol Scand** 1989 Sep;80(3):201–7

Immunohistochemical localisation of terminal complement component C9 in experimental allergic encephalomyelitis. Linington C, et al. **Acta Neuropathol (Berl)** 1989;79(1):78–85

The T lymphocyte in experimental allergic encephalomyelitis. Zamvil SS, et al. **Annu Rev Immunol** 1990;8:579–621 (185 ref.)

The model of allergic encephalomyelitis of nonacute, phase course. Błaszczyk B, et al.
Arch Immunol Ther Exp (Warsz) 1989;37(3–4):449–58

Induction of class II major histocompatibility complex antigens on a population of astrocytes from a mouse strain (BALB/c) resistant to experimental allergic encephalomyelitis. Barish ME, et al. **Brain Res** 1990 Mar 5;510(2):329–34

Autoimmune T cells: immune recognition of normal and variant peptide epitopes and peptide-based therapy. Urban JL, et al. **Cell** 1989 Oct 20;59(2):257–71

Antigen recognition in autoimmune encephalomyelitis and the potential for peptide-mediated immunotherapy. Wraith DC, et al. **Cell** 1989 Oct 20;59(2):247–55

Antigen processing of myelin basic protein is required prior to recognition by T cells inducing EAE. Cross AH, et al. **Cell Immunol** 1990 Aug;129(1):22–31

Generation of CD4+ blastoid T cells showing marked upregulation of CD4, class I and II MHC, and IL2 receptor molecules is required for the expression of potent encephalitogenicity. Kira J, et al. **Cell Immunol** 1989 Oct 15;123(2):264–75

Generation of CD4+ blastoid T cells in recipients of BP/IFA-sensitized spleen cells. Kira J, et al.
Cell Immunol 1990 Jun;128(1):130–41

Suppression of experimental allergic encephalomyelitis by MBP-coupled lymphoid cells and by MBP-liposomes: a comparison. Strejan GH, et al. **Cell Immunol** 1990 May; 127(2):284–98

Suppressor cell regulation of encephalitogenic T cell lines: generation of suppressor macrophages with cyclosporin A and myelin basic protein. Whitham RH, et al.
Cell Immunol 1990 Apr 1;126(2):290–303

The autoimmune T cell receptor: epitopes, idiotopes, and malatopes. Heber-Katz E. **Clin Immunol Immunopathol** 1990 Apr;55(1):1–8 (36 ref.)

Physiological basis of T-cell vaccination against autoimmune disease. Cohen IR. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 2:879–84

A new hierarchy of TCR specificity: autoimmune diseases are defined by particular V alpha V beta combinations and not by antigen specificity. Heber-Katz E.
Cold Spring Harb Symp Quant Biol 1989;54 Pt 2:875–8

Autoimmune disease and T-cell immunologic recognition. Hood L, et al. **Cold Spring Harb Symp Quant Biol** 1989; 54 Pt 2:859–74 (47 ref.)

Interleukin 6 production in the central nervous system during experimental autoimmune encephalomyelitis. Gijbels K, et al. **Eur J Immunol** 1990 Jan;20(1):233–5

T cell receptors in autoimmune disease as targets for immune intervention. Acha-Orbea H, et al. **Genome** 1989; 31(2):656–61

Genetic control of resistance to clinical EAE accompanied by histological symptoms. Gasser DL, et al.
Immunogenetics 1990;31(5–6):377–82

Experimental allergic encephalomyelitis (EAE) in mice selectively bred to produce high affinity (HA) or low affinity (LA) antibody responses. Devey ME, et al.
Immunology 1990 Apr;69(4):519–24

Limiting-dilution analysis of the frequency of myelin basic protein-reactive T cells in Lewis, PVG/c and BN rats. Implication for susceptibility to autoimmune encephalomyelitis. Matsumoto Y, et al. **Immunology** 1990 Feb;69(2):215–21

Experimental allergic encephalomyelitis in the monkey: humoral immunity and blood-brain barrier function. Gallo P, et al. **Ital J Neurol Sci** 1989 Dec;10(6):561–5

Competition between foreign and self proteins in antigen presentation. Ovalbumin can inhibit activation of myelin basic protein-specific T cells. Gautam AM, et al.
J Immunol 1990 Feb 15;144(4):1177–80

Regulation of the effector stages of experimental autoimmune encephalomyelitis via neuroantigen-specific tolerance induction. Kennedy MK, et al. **J Immunol** 1990 Jul 1; 145(1):117–26

Inhibition of murine relapsing experimental autoimmune encephalomyelitis by immune tolerance to proteolipid protein and its encephalitogenic peptides. Kennedy MK, et al. **J Immunol** 1990 Feb 1;144(3):909–15

Functional heterogeneity among CD4+ encephalitogenic T cells in recruitment of CD8+ T cells in experimental autoimmune encephalomyelitis. Sun D, et al. **J Immunol** 1989 Nov 1;143(9):2867–72

Characterization of basic protein-specific T cell lines selected from Lewis rats with relapsing experimental autoimmune encephalomyelitis. Bourdette DN, et al.
J Neuroimmunol 1990 Jan;26(1):81–5

Serial adoptive transfer of murine experimental allergic encephalomyelitis: successful transfer is dependent on active disease in the donor. Cross AH, et al.
J Neuroimmunol 1990 Jun;28(1):27–37

Oral tolerance in experimental autoimmune encephalomyelitis: serum and salivary antibody responses. Fuller KA, et al. **J Neuroimmunol** 1990 Jun;28(1):15–26

Studies on the refractoriness to reinduction of experimental allergic encephalomyelitis in Lewis rats that have recovered from one episode of the disease. MacPhee IA, et al. **J Neuroimmunol** 1990 Apr;27(1):9–19

Increase in anti-astrocyte antibodies in the serum of guinea pigs during active stages of experimental autoimmune encephalomyelitis. Pekovic D, et al. **J Neuroimmunol** 1990 Mar;26(3):251–9

Demyelination and early remyelination in experimental allergic encephalomyelitis passively transferred with myelin basic protein-sensitized lymphocytes in the Lewis rat. Pender MP, et al. **J Neuroimmunol** 1989 Dec; 25(2–3):125–42

Transforming growth factors beta 1 and beta 2: cytokines with identical immunosuppressive effects and a potential role in the regulation of autoimmune T cell function.

Schluesener HJ, et al. **J Neuroimmunol** 1989 Oct; 24(3):249–58

Semple rabies vaccine: presence of myelin basic protein and proteolipid protein and its activity in experimental allergic encephalomyelitis. Javier RS, et al. **J Neurol Sci** 1989 Nov; 93(2–3):221–30

Defective T helper cell epitope responsible for the failure of region 69–84 of the human myelin basic protein to induce experimental allergic encephalomyelitis in the Lewis rat. Hashim GA, et al. **J Neurosci Res** 1989 Oct;24(2):222–30

Homing to central nervous system vasculature by antigen-specific lymphocytes. I. Localization of 14C-labeled cells during acute, chronic, and relapsing experimental allergic encephalomyelitis. Cross AH, et al. **Lab Invest** 1990 Aug;63(2):162–70

Horror Autotoxicus and homing: implications for autoimmunity. Swanborg RH. **Lab Invest** 1990 Aug; 63(2):141–3 (19 ref.)

Immunization with a synthetic T-cell receptor V-region peptide protects against experimental autoimmune encephalomyelitis. Vandenbark AA, et al. **Nature** 1989 Oct 12;341(6242):541–4

Induction of resistance to experimental allergic encephalomyelitis in newborn guinea pigs. Staykova M, et al. **Neurol Psychiatr (Bucur)** 1989 Jul–Sep;27(3):225–9

Amino acid variations at a single residue in an autoimmune peptide profoundly affect its properties: T-cell activation, major histocompatibility complex binding, and ability to block experimental allergic encephalomyelitis. Kumar V, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1337–41

Prevention of experimental encephalomyelitis with peptides that block interaction of T cells with major histocompatibility complex proteins. Sakai K, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9470–4

Vaccination against experimental allergic encephalomyelitis with T cell receptor peptides [published erratum appears in Science 1990 Mar 9;247(4947):1167] Howell MD, et al. **Science** 1989 Nov 3;246(4930):668–70

[Assay of myelin basic protein (MBP) antibody in the cerebrospinal fluid and serum of rabbits with experimental allergic encephalomyelitis (EAE) before and after sensitization] Gao Y. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Jun; 23(3):165–7, 190–1 (Eng. Abstr.) **(Chi)**

[Immunomorphologic features of experimental allergic encephalomyelitis induced by the administration of tryptophan peptide] Zhitnukhin IuL, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):241–4 (Eng. Abstr.) **(Rus)**

METABOLISM

Increased vesicular transport and decreased mitochondrial content in blood–brain barrier endothelial cells during experimental autoimmune encephalomyelitis. Claudio L, et al. **Am J Pathol** 1989 Dec;135(6):1157–68

Duration and selectivity of blood–brain barrier breakdown in chronic relapsing experimental allergic encephalomyelitis studied by gadolinium–DTPA and protein markers. Hawkins CP, et al. **Brain** 1990 Apr;113 (Pt 2):365–78

Dissociation of GFAP intermediate filaments in EAE: observations in the lumbar spinal cord. Eng LF, et al. **GLIA** 1989;2(5):308–17

Separation of lipids from lactate in experimental allergic encephalomyelitis by zero quantum NMR techniques. Richards TL. **Invest Radiol** 1989 Dec;24(12):955–7

CD4+ suppressor cells differentially affect the production of IFN-gamma by effector cells of experimental autoimmune encephalomyelitis. Karpus WJ, et al. **J Immunol** 1989 Dec 1;143(11):3492–7

A study on demyelinating effect of galactocerebroside in experimental allergic encephalomyelitis. Khang SK, et al. **J Korean Med Sci** 1988 Sep;3(3):89–98

Expression of glial fibrillary acidic protein and neurofilament mRNA in gliosis induced by experimental autoimmune encephalomyelitis. Aquino DA, et al. **J Neurochem** 1990 Apr;54(4):1398–404

Reactive gliosis in the brains of Lewis rats with experimental allergic encephalomyelitis. Cammer W, et al. **J Neuroimmunol** 1990 May;27(2–3):111–20

Neurovascular fibrinolytic activity in normal Lewis rats and rats with cell-transferred experimental allergic encephalomyelitis. Koh CS, et al. **J Neuroimmunol** 1990 Aug;28(3):189–200

Splenic noradrenergic and adrenocortical responses during the preclinical and clinical stages of adoptively transferred experimental autoimmune encephalomyelitis (EAE). Leonard JP, et al. **J Neuroimmunol** 1990 Feb;26(2):183–6

[Fibronectin (FN) concentrations in plasma and cerebrospinal fluid (CSF) from guinea pigs with experimental allergic encephalomyelitis (EAE) induced by myelin basic proteins] Hashiguchi H, et al. **Sangyo Ika Daigaku Zasshi** 1990 Jun 1;12(2):175–82 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Modifications of experimental allergic encephalomyelitis in the rat by Angiostrongylus cantonensis larvae. Jindrak K, et al. **Exp Neurol** 1974 Sep;44(3):333–45

PATHOLOGY

The neuropathology of chronic relapsing experimental allergic encephalomyelitis induced in the Lewis rat by inoculation with whole spinal cord and treatment with cyclosporin A. Pender MP, et al. **Acta Neuropathol (Berl)** 1990;80(2):172–83

Sequence of tissue responses in the early stages of experimental allergic encephalomyelitis (EAE): immunohistochemical, light microscopic, and ultrastructural observations in the spinal cord. D'Amelio FE, et al. **GLIA** 1990;3(4):229–40

Isolation and characterization of brain macrophages from the central nervous system of newborn and adult rats and of rats with experimental allergic encephalomyelitis. de Groot CJ, et al. **Immunobiology** 1989 Oct;179(4–5):314–27

A quantitative immunocytochemical study of the infiltrating lymphocytes in the spinal cord of guinea pigs with chronic relapsing experimental allergic encephalomyelitis. Butter C, et al. **J Neuroimmunol** 1989 Dec;25(2–3):169–76

Effector cells of autoimmune encephalomyelitis in the rat belong to the CD4–positive, OX22–adherent T cell subset. Hayosh NS, et al. **J Neuroimmunol** 1989 Nov;25(1):57–61

Suppression of clinical weakness in experimental autoimmune encephalomyelitis associated with weight changes, and post-decapitation convulsions after intracisternal–ventricular administration of 6–hydroxydopamine. Konkol RJ, et al. **J Neuroimmunol** 1990 Jan;26(1):25–34

Experimental autoimmune encephalomyelitis: isolation and characterization of inflammatory cells from the central nervous system. Lyman WD, et al. **J Neuroimmunol** 1989 Dec;25(2–3):195–201

Recombinant human beta–galactoside binding lectin suppresses clinical and histological signs of experimental autoimmune encephalomyelitis. Offner H, et al. **J Neuroimmunol** 1990 Jul;28(2):177–84

Analysis of T cell subsets after induction of experimental autoimmune encephalomyelitis in susceptible and resistant strains of rats. Vukmanović S, et al. **J Neuroimmunol** 1990 Apr;27(1):63–9

Assessment of demyelination in glycol methacrylate sections: a new protocol for cresyl fast violet staining. Nguyen KB, et al. **Stain Technol** 1989 Jul;64(4):163–7

[Complications following cell therapy] Bohl J, et al. **Z Rechtsmed** 1989;103(1):1–20 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

An investigation into the possible involvement of platelet activating factor in experimental allergic encephalomyelitis in rats. Howat DW, et al. **Agents Actions** 1989 Jun; 27(3–4):473–6

The beta–adrenergic agonist isoproterenol suppresses experimental allergic encephalomyelitis in Lewis rats. Chelmicka–Schorr E, et al. **J Neuroimmunol** 1989 Dec; 25(2–3):203–7

Modulation of experimental allergic encephalomyelitis by a host–versus–graft reaction: a clinicopathological study. Staykova M, et al. **J Neuroimmunol** 1989 Dec; 25(2–3):117–23

Some pathophysiological aspects of experimental autoimmune encephalomyelitis. Honegger CG, et al. **Schweiz Rundsch Med Prax** 1989 Sep 5;78(36):964–6

PREVENTION & CONTROL

Suppression of experimental allergic encephalomyelitis by intraventricular administration of interferon–gamma in Lewis rats. Voorthuis JA, et al. **Clin Exp Immunol** 1990 Aug;81(2):183–8

The role of serum factors in the suppression of experimental allergic encephalomyelitis: evidence for immunoregulation by antibody to the encephalitogenic peptide. MacPhee IA, et al. **Immunology** 1990 Aug;70(4):527–34

Suppression of experimental allergic encephalomyelitis by COP1—relevance to multiple sclerosis. Arnon R, et al. **Isr J Med Sci** 1989 Dec;25(12):686–9 (27 ref.)

Prevention and treatment of murine experimental allergic encephalomyelitis with T cell receptor V beta–specific antibodies. Zaller DM, et al. **J Exp Med** 1990 Jun 1; 171(6):1943–55

Antibodies specific for VB8 receptor peptide suppress experimental autoimmune encephalomyelitis. Hashim GA, et al. **J Immunol** 1990 Jun 15;144(12):4621–7

Inhibition of experimental autoimmune encephalomyelitis induction in SJL/J mice by using a peptide with high affinity for IAs molecules. Lamont AG, et al. **J Immunol** 1990 Sep 15;145(6):1687–93

T cell vaccination in monoclonal antibody–induced hyperacute experimental allergic encephalomyelitis. Schluesener HJ, et al. **J Neuroimmunol** 1989 Oct; 24(3):233–8

[Effects of novel immunosuppressant FK 506 in acute experimental allergic encephalomyelitis] Deguchi K, et al. **No To Shinkei** 1990 Apr;42(4):391–7 (Eng. Abstr.) **(Jpn)**

THERAPY

Reversal of autoimmune encephalomyelitis by membranes presenting myelin basic protein–associated class II MHC molecule as an approach to immunotherapy of organ–specific autoimmune diseases. Ben–Nun A, et al. **Eur J Immunol** 1990 Feb;20(2):357–61

Mechanisms of anti–CD4–mediated depletion and immunotherapy. A study using a set of chimeric anti–CD4 antibodies. Alters SE, et al. **J Immunol** 1990 Jun 15; 144(12):4587–92

Treatment of spinal cord–induced experimental allergic encephalomyelitis in the Lewis rat with liposomes presenting central nervous system antigens. Stein CS, et al. **J Neuroimmunol** 1990 Jul;28(2):119–30

Autoimmune disease: immunotherapy by peptides? [news] Janeway CA. **Nature** 1989 Oct 12;341(6242):482–3

ENCEPHALOMYELITIS, EQUINE

DIAGNOSIS

Dot–ELISA for serodiagnosis of human infections due to Western equine encephalitis virus. Boctor FN, et al. **J Virol Methods** 1989 Dec;26(3):305–11

EPIDEMIOLOGY

Eastern equine encephalomyelitis virus: epidemiology and evolution of mosquito transmission. Scott TW, et al. **Adv Virus Res** 1989;37:277–328 (307 ref.)

A case of western equine encephalitis—Alberta. Horne D, et al. **Can Dis Wkly Rep** 1989 Dec 23;15(51):256–7 **(Eng, Fre)**

Arboviral surveillance—United States, 1990. **MMWR** 1990 Sep 7;39(35):593–8

IMMUNOLOGY

[Phagocytosis system and resistance of mice to Western equine encephalomyelitis virus] Nesterchuk SL, et al. **Vopr Virusol** 1989 Nov–Dec;34(6):758–60 **(Rus)**

METABOLISM

Cerebral serotonin in viral encephalitis. Lima L, et al. **J Neural Transm Suppl** 1990;29:141–51

MICROBIOLOGY

Identification of an antigenic subtype of eastern equine encephalitis virus isolated from a human. Calisher CH, et al. **J Clin Microbiol** 1990 Feb;28(2):373–4

PREVENTION & CONTROL

Protection against lethal Venezuelan equine encephalitis (VEE) virus infection by cell–free supernatant obtained from immune spleen cells. Huprikar J, et al. **J Neurol Sci** 1990 Jul;97(2–3):143–53

[The use of methisazone for preventing viral encephalitis and encephalomyelitis in an experiment in white mice] Tarasenko AB, et al. **Vopr Virusol** 1990 Mar–Apr; 35(2):158–60 **(Rus)**

VETERINARY

Mosquito–induced infection with equine encephalomyelitis virus in dogs. Bivin WS, et al. **Am J Trop Med Hyg** 1967 Jul;16(4):544–7

Cross–protective immunity between equine encephalomyelitis viruses in equids. Walton TE, et al. **Am J Vet Res** 1989 Sep;50(9):1442–6

Trajectory analysis of winds and eastern equine encephalitis in USA, 1980–5. Sellers RF, et al. **Epidemiol Infect** 1990 Apr;104(2):329–43

Western equine encephalitis in avian populations in North Dakota, 1975. McLean RG, et al. **J Wildl Dis** 1989 Oct; 25(4):481–9

ENCEPHALOMYELITIS, EXPERIMENTAL ALLERGIC see **ENCEPHALOMYELITIS, ALLERGIC**

ENCEPHALOMYELITIS, MYALGIC see **FATIGUE SYNDROME, CHRONIC**

ENCEPHALOMYELITIS, NECROTIZING HEMORRHAGIC see under **ENCEPHALOMYELITIS**

ENCEPHALOMYELITIS, VENEZUELAN EQUINE see under **ENCEPHALOMYELITIS, EQUINE**

ENCEPHALOMYELITIS VIRUS, MURINE see under **ENTEROVIRUSES**

ENCEPHALOMYELITIS VIRUS, VENEZUELAN EQUINE see **ENCEPHALITIS VIRUS, VENEZUELAN EQUINE**

ENCEPHALOMYOCARDITIS VIRUSES

Effect of rearing conditions on encephalomyocarditis (EMC) virus–induced diabetes in mice. Shichinohe K, et al. **Jikken Dobutsu** 1990 Jul;39(3):377–81

DRUG EFFECTS

[The effect of high molecular weight interferon inducers (dsRNA) on virus adsorption] Bakunts KA, et al. **Vopr Med Khim** 1990 Mar–Apr;36(2):35–7 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Inducible expression of encephalomyocarditis virus 3C protease activity in stably transformed mouse cell lines.

Lawson TG, et al. J Virol 1989 Dec;63(12):5013–22

GENETICS

A factor that specifically binds to the 5'-untranslated region of encephalomyocarditis virus RNA. Borovjagin AV, et al. FEBS Lett 1990 Feb 26;261(2):237–40

Construction and characterization of two infectious molecular clones of encephalomyocarditis virus. Naviaux RK, et al. J Virol 1990 Feb;64(2):913–7

IMMUNOLOGY

The preparation of antiidiotypic antibodies against human beta-interferon [letter] Pille ER, et al. Acta Virol (Praha) 1989 Dec;33(6):587

Identification and production of monoclonal antibodies against a discriminating protein molecule between B and D variants of encephalomyocarditis virus. Qureshi MA, et al. Dev Comp Immunol 1989 Summer;13(3):263–71

Inhibition of rate of tumour growth in rodent species by inoculation of herpesviruses and encephalomyocarditis virus. Cowan M, et al. J Med Virol 1990 Mar;30(3):211–5

AGM1+ spleen cells contain gamma interferon (IFN-gamma) gene transcripts in the early, sex-dependent production of IFN-gamma after picornavirus infection. McFarland HI, et al. J Virol 1990 Sep;64(9):4407–13

PATHOGENICITY

Pathogenic properties of encephalomyocarditis virus isolates in swine fetuses. Kim HS, et al. Arch Virol 1989; 109(1–2):51–7

Two amino acids, Phe 16 and Ala 776, on the polyprotein are most likely to be responsible for the diabetogenicity of encephalomyocarditis virus. Bae YS, et al. J Gen Virol 1990 Mar;71 (Pt 3):639–45

The role of interferon in the protection of ICR Swiss male mice by the nondiabetogenic variant of encephalomyocarditis virus against virus-induced diabetes mellitus. Kaptur PE, et al. J Interferon Res 1989 Dec; 9(6):671–8

Tropism and histopathology of the D, B, K, and MM variants of encephalomyocarditis virus. Cerutis DR, et al. J Med Virol 1989 Sep;29(1):63–9

D variant of encephalomyocarditis virus (EMCV-D)-induced diabetes following natural killer cell depletion in diabetes-resistant male C57BL/6J mice. White LL, et al. Viral Immunol 1990 Spring;3(1):67–76

ENCHONDROMA see CHONDROMA

ENCHONDROMATOSIS see under OSTEOCHONDRODYSPLASIAS

ENCOPRESIS

DIAGNOSIS

Breath methane production in children with constipation and encopresis. Fiedorek SC, et al. J Pediatr Gastroenterol Nutr 1990 May;10(4):473–7

ETIOLOGY

[Enuresis and encopresis as a reaction to food] Oei HD, et al. Ned Tijdschr Geneeskd 1989 Aug 5;133(31):1555–7 (Eng. Abstr.) (Dut)

PHYSIOPATHOLOGY

[Prognosis for encopresis] Serrano Luna JL, et al. An Esp Pediatr 1989 Jul;31(1):10–4 (Eng. Abstr.) (Spa)

PSYCHOLOGY

[Follow-up of encopresis in children] Steinmüller A, et al. Prax Kinderpsychol Kinderpsychiatr 1990 Mar;39(3):74–9 (Eng. Abstr.) (Ger)

THERAPY

Combined medical and psychological treatment of hospitalized children with encopresis. Dawson PM, et al. Child Psychiatry Hum Dev 1990 Spring;20(3):181–90

Encopresis: behavioral parameters associated with children who fail medical management. Stark LJ, et al. Child Psychiatry Hum Dev 1990 Spring;20(3):169–79

Enhancing the management of secondary encopresis by assessing acceptability of treatment: a case study. Steege MW, et al. J Behav Ther Exp Psychiatry 1989 Dec; 20(4):333–41

Modulation of abnormal defecation dynamics by biofeedback treatment in chronically constipated children with encopresis. Loening-Baucke V. J Pediatr 1990 Feb; 116(2):214–22

Encopresis: developmental, behavioral and physiological considerations for treatment. Sprague-McRae JM. Nurse Pract 1990 Jun;15(6):8, 11–8, 21–4 (45 ref.)

[Cooperation and termination of treatment: a study of the course of therapy of children with enuresis] Quaschner K, et al. Z Kinder Jugendpsychiatr 1989 Sep;17(3):119–24 (Eng. Abstr.) (Ger)

[Psychotherapy in the treatment of encopresis in children with idiopathic megacolon] Chromá O, et al. Cesk Pediatr 1989 Nov;44(11):650–2 (Eng. Abstr.) (Slo)

[Biofeedback as a complementary treatment in surgery for anal incontinence] Rosado R, et al. Rev Esp Enferm Dig 1990 Mar;77(3):193–6 (Eng. Abstr.) (Spa)

ENCOUNTER GROUPS see under SENSITIVITY TRAINING GROUPS

ENCYCLOPEDIAS

[Lev Iakovlevich Brusilovskiĭ and the creation of Soviet medical encyclopedias] Lapin VP. Zh Nevropatol Psikhiatr 1990;90(1):125–7 (Rus)

ENDAMOEBA HISTOLYTICA see ENTAMOEBA HISTOLYTICA

ENDARTERECTOMY

How to predict which patient with carotid atherosclerosis is "high risk". Schroeder T. Acta Chir Scand Suppl 1990; 555:209–22 (123 ref.)

Surgical versus medical treatment for symptomatic carotid atherosclerosis. Warlow C. Acta Chir Scand Suppl 1990; 555:223–4

Results of microsurgical carotid endarterectomy. A prospective study with transcranial Doppler and EEG monitoring, and elective shunting. Steiger HJ, et al. Acta Neurochir (Wien) 1989;100(1–2):31–8

Carotid endarterectomy. Warlow C. Acta Neurol Belg 1989 Nov–Dec;89(5):325–30 (3 ref.)

Patency and flow velocity profiles in the internal carotid artery assessed by digital subtraction angiography and Doppler studies two years after endarterectomy. Russell D, et al. Acta Neurol Scand 1990 Mar;81(3):193–6

Early clinical results of long coronary arteriotomy, endarterectomy and reconstruction combined with multiple bypass grafting for severe coronary artery disease. Sommerhaug RG, et al. Am J Cardiol 1990 Sep 15; 66(7):651–9

Late morphologic findings after coronary endarterectomy [letter] Walley VM, et al. Am J Cardiol 1990 Aug 1; 66(3):386

Combined carotid endarterectomy and myocardial revascularization. Maki HS, et al. Am J Surg 1989 Nov; 158(5):443–5

The training of carotid endarterectomy during an era of controversy. A personal experience. Dalsing MC. Am Surg 1990 Aug;56(8):476–86

An evaluation of external jugular vein patch angioplasty after carotid endarterectomy. Whereatt N, et al. Am Surg 1990 Aug;56(8):455–9

Carotid endarterectomy under cervical plexus block—a prospective clinical audit. Davies MJ, et al. Anaesth Intensive Care 1990 May;18(2):219–23

A comparison of the cerebral hemodynamic effects of sufentanil and isoflurane in humans undergoing carotid endarterectomy. Young WL, et al. Anesthesiology 1989 Dec;71(6):863–9

Indications for carotid endarterectomy. American College of Physicians [see comments] Ann Intern Med 1989 Oct 15;111(8):675–7 Comment in: Ann Intern Med 1990 Mar 1;112(5):383–4.

Carotid endarterectomy. Cebul RD, et al. Ann Intern Med 1989 Oct 15;111(8):660–70 (108 ref.)

Carotid endarterectomy [letter; comment] Lederle FA. Ann Intern Med 1990 Mar 1;112(5):383–4 Comment on: Ann Intern Med 1989 Oct 15;111(8):675–7.

Safe extracranial vascular evaluation and surgery without preoperative arteriography. Hill JC, et al. Ann Vasc Surg 1990 Jan;4(1):34–8

Carotid artery endarterectomy in patients over seventy years-of-age. Schröe H, et al. Ann Vasc Surg 1990 Mar; 4(2):133–7

The risk of carotid endarterectomy for the asymptomatic patient: an argument for prophylactic operation. Treiman RL, et al. Ann Vasc Surg 1990 Jan;4(1):29–33

Long-term results after carotid endarterectomy for carotid artery stenosis with contralateral occlusion. Vermassen F, et al. Ann Vasc Surg 1990 Jul;4(4):323–7

Computerized topographic brain mapping during carotid endarterectomy. Elmore JR, et al. Arch Surg 1990 Jun; 125(6):734–7; discussion 738

EEG monitoring using aperiodic analysis during carotid and open heart surgery. Koumoundouros E, et al. Australas Phys Eng Sci Med 1989 Sep;12(3):149–54

Selecting patients for cerebral angiography before carotid endarterectomy [letter] Humphrey P. BMJ 1990 Jul 21; 301(6744):181

Impact of duplex scanning on carotid endarterectomy. Chant AD, et al. Br J Surg 1990 Feb;77(2):188–9

Role of duplex scanning in the selection of patients for carotid endarterectomy. Farmilo RW, et al. Br J Surg 1990 Apr; 77(4):388–90

Aortoiliac endarterectomy: an 11-year review. Naylor AR, et al. Br J Surg 1990 Feb;77(2):190–3

The carotid endarterectomy trial [letter] Del Campo C. Can Med Assoc J 1990 Feb 1;142(3):205, 208–9

Gas exchange in chronic thromboembolism after pulmonary thromboendarterectomy. Kapitan KS, et al. Chest 1990 Jul; 98(1):14–9

Early improvement in left ventricular diastolic function after relief of chronic right ventricular pressure overload. Dittrich HC, et al. Circulation 1989 Oct;80(4):823–30

Long-term results of endarterectomy of the internal carotid artery for cerebral ischemia and infarction. Heyman A, et al. Circulation 1967 Aug;36(2):212–21

Coronary arterial morphology 10 years after "endarterectomy". Kragel AH, et al. Clin Cardiol 1990 Mar;13(3):224–6

Transient ischaemic attacks: controversies in treatment. A review. Gilligan BS. Clin Exp Neurol 1988;25:33–42 (23 ref.)

Is there still a place for carotid endarterectomy? Matalanis G, et al. Clin Exp Neurol 1988;25:17–26 (15 ref.)

Ventilatory effects of hypoxia and adenosine infusion in patients after bilateral carotid endarterectomy. Griffiths TL, et al. Clin Sci 1990 Jan;78(1):25–31

Simultaneous extensive extracranial and coronary revascularization. Long-term follow-up up to 13 years. Vermeulen FE, et al. Eur J Cardiothorac Surg 1988; 2(2):113–23

Local versus general anaesthesia in carotid surgery. A prospective, randomised study. Forssell C, et al. Eur J Vasc Surg 1989 Dec;3(6):503–9

Eight to ten years follow-up after carotid endarterectomy: clinical evaluation and Doppler examination of patients operated on between 1978–1980. Knudsen L, et al. Eur J Vasc Surg 1990 Jun;4(3):259–64

Stroke-related EEG changes during carotid surgery. Krul JM, et al. Eur J Vasc Surg 1989 Oct;3(5):423–8

Angiographic long-term outcome of carotid endarterectomy. Lepojärvi MV. Eur J Vasc Surg 1989 Dec;3(6):549–55

Antiplatelet therapy following carotid bifurcation endarterectomy. Evaluation of a controlled clinical trial. Prognostic significance of histologic plaque examination on behalf of survival. Pratschner T, et al. Eur J Vasc Surg 1990 Jun;4(3):285–9

Carotid artery surgery. Local versus general anaesthesia as related to sympathetic activity and cardiovascular effects. Takolander R, et al. Eur J Vasc Surg 1990 Jun;4(3):265–70

Heparin kinetics in vascular surgery. Williams NN, et al. Eur J Vasc Surg 1989 Dec;3(6):493–6

The use of electroencephalography in carotid endarterectomy. Chemtob G, et al. Int Anesthesiol Clin 1990 Summer;28(3):143–6 (30 ref.)

Evolution of carotid atheromatous lesions in endarterectomized patients. Arosio E, et al. Int Angiol 1989 Oct–Dec;8(4):194–9

Thromboendarterectomy (TEA) in the recipient as a major risk of arterial complication after kidney transplantation. Belli L, et al. Int Angiol 1989 Oct–Dec;8(4):206–9

Carotid surgery under cervical block anesthesia. A simple method of heart and brain protection in high risk patients. Bergeron P, et al. Int Angiol 1989 Apr–Jun;8(2):70–80

Late results of reconstructive surgery for renovascular hypertension. Fiorani P, et al. Int Angiol 1989 Apr–Jun; 8(2):81–91

Influence of contralateral carotid artery on neurologic outcome after carotid endarterectomy. Floriani M, et al. Ital J Surg Sci 1989;19(4):381–6

Airway compromise after carotid surgery in patients with cervical irradiation. Francfort JW, et al. J Cardiovasc Surg (Torino) 1989 Nov–Dec;30(6):877–81

Monitoring cerebral perfusion during carotid endarterectomy. Padayachee TS, et al. J Cardiovasc Surg (Torino) 1990 Jan–Feb;31(1):112–4

Late results of surgical and nonoperative treatment of carotid stenosis. Eighty-four patients documented by angiography in 1974–1976. Salenius JP, et al. J Cardiovasc Surg (Torino) 1990 Mar–Apr;31(2):156–61

The impact of vein patch angioplasty on long-term surgical outcome after carotid endarterectomy. A prospective follow-up study with serial duplex scanning. Ten Holter JB, et al. J Cardiovasc Surg (Torino) 1990 Jan–Feb; 31(1):58–65

Complications of cerebral angiography for patients with mild carotid territory ischaemia being considered for carotid endarterectomy. Hankey GJ, et al. J Neurol Neurosurg Psychiatry 1990 Jul;53(7):542–8

SPECT quantification of cerebral ischemia before and after carotid endarterectomy. Maurer AH, et al. J Nucl Med 1990 Aug;31(8):1412–20

Risk factors for pulmonary thromboendarterectomy. Daily PO, et al. J Thorac Cardiovasc Surg 1990 Apr;99(4):670–8

Is routine duplex examination after carotid endarterectomy justified? Cook JM, et al. J Vasc Surg 1990 Sep;12(3):334–40

Residual lesions and early recurrent stenosis after carotid endarterectomy [letter; comment] Gale SS. J Vasc Surg 1989 Dec;10(6):705–7 Comment on: J Vasc Surg 1987 May;5(5):731–7.

Fate of the carotid artery contralateral to endarterectomy. Hatsukami TS, et al. J Vasc Surg 1990 Feb;11(2):244–50; discussion 250–1

Long-term follow-up and clinical outcome of carotid restenosis. Healy DA, et al. J Vasc Surg 1989 Dec; 10(6):662–8; discussion 668–9

Carotid endarterectomy contralateral to an occluded carotid artery: perioperative risk and late results. Mackey WC, et al. J Vasc Surg 1990 Jun;11(6):778–83; discussion 784–5

Carotid endarterectomy in patients with intracranial vascular disease: short-term risk and long-term outcome. Mackey WC, et al. J Vasc Surg 1989 Oct;10(4):432–8

Timing of carotid endarterectomy after acute stroke.

Piotrowski JJ, et al. **J Vasc Surg** 1990 Jan;11(1):45–51; discussion 51–2

Recurrent carotid stenosis: a consequence of local or systemic factors? The influence of unrepaired technical defects. Reilly LM, et al. **J Vasc Surg** 1990 Mar;11(3):448–59; discussion 459–60

Confluent durable endothelialization of endarterectomized baboon aorta by early attachment of cultured endothelial cells. Schneider PA, et al. **J Vasc Surg** 1990 Mar; 11(3):365–72

Hollenhorst plaques: retinal manifestations and the role of carotid endarterectomy. Schwarcz TH, et al. **J Vasc Surg** 1990 May;11(5):635–41

Common sense and carotid endarterectomy. Wheeler HB. **J Vasc Surg** 1990 Jun;11(6):735–44

Relevance of cerebral vasomotor reactivity to prospects for successful endarterectomy [letter] Fürst H, et al. **Lancet** 1990 Jan 20;335(8682):166–7

Effectiveness of carotid endarterectomy for asymptomatic carotid stenosis: design of a clinical trial. Mayo Asymptomatic Carotid Endarterectomy Study Group. **Mayo Clin Proc** 1989 Aug;64(8):897–904

Carotid endarterectomy clinical trials [editorial] Marler JR. **Mayo Clin Proc** 1989 Aug;64(8):1026–9

Interposition of a saphenous vein graft for early recurrent carotid stenosis—report of two cases. Abiko S, et al. **Neurol Med Chir (Tokyo)** 1989 Jul;29(7):583–7

Cerebral blood flow and common carotid flow in neurologically asymptomatic carotid endarterectomy patients. Gratzl O, et al. **Neurol Res** 1990 Mar;12(1):26–8

Carotid artery disease and low cerebral perfusion pressure: symptomatology, operative risk and outcome. Schroeder T, et al. **Neurol Res** 1990 Mar;12(1):35–40

Interim assessment: carotid endarterectomy. Report of the American Academy of Neurology, Therapeutics and Technology Assessment Subcommittee. **Neurology** 1990 Apr;40(4):682–3

Hyperperfusion syndrome after carotid endarterectomy: a transcranial Doppler evaluation. Powers AD, et al. **Neurosurgery** 1990 Jan;26(1):56–9; discussion 59–60

Arrogance re-revisited [letter] Friedmann P. **Stroke** 1989 Dec;20(12):1755

Cerebral vasoreactivity and blood flow before and 3 months after carotid endarterectomy. Russell D, et al. **Stroke** 1990 Jul;21(7):1029–32

Detection of middle cerebral artery emboli during carotid endarterectomy using transcranial Doppler ultrasonography. Spencer MP, et al. **Stroke** 1990 Mar; 21(3):415–23

Carotid endarterectomy without angiography. Gelabert HA, et al. **Surg Clin North Am** 1990 Feb;70(1):213–23 (28 ref.)

Review of 272 consecutive carotid endarterectomies in a smaller community. Hoyne RF. **Surg Gynecol Obstet** 1990 Jun;170(6):522–6

Postoperative somnolence in patients after carotid endarterectomy. Akers DL, et al. **Surgery** 1990 Jun; 107(6):684–7

Use of the internal jugular vein for carotid patch angioplasty. Seabrook GR, et al. **Surgery** 1989 Oct;106(4):633–7; discussion 637–8

Outcome of kidney transplants requiring extensive endarterectomy. Nghiem DD, et al. **Transplant Proc** 1990 Apr;22(2):395–7

Treatment of acute superficial thrombosis and follow-up by computerized thermography. Belcaro G, et al. **Vasa** 1989; 18(3):227–34

[Median nerve somatosensory evoked potential monitoring during carotid endarterectomy–report of one case] Yu CL, et al. **Ma Tsui Hsueh Tsa Chi** 1990 Mar;28(1):83–90 (Eng. Abstr.) **(Chi)**

[Results of thrombo-endarterectomy of chronic pulmonary embolism] Jault F, et al. **Arch Mal Coeur** 1990 Feb; 83(2):205–8 (Eng. Abstr.) **(Fre)**

[Carotid surgery under locoregional anesthesia] Goëau-Brissonnière O, et al. **Presse Med** 1989 Nov 11; 18(37):1831–5 (Eng. Abstr.) **(Fre)**

[Place of aorto-ilio-femoral thrombo-endarterectomy in the treatment of arterial insufficiency of the lower limbs] Simon P, et al. **Rev Med Liege** 1989 Aug 1–15;44(15–16):484–8 **(Fre)**

[Carotid endarterectomy. A justifiable risk for the prevention of ischemic infarct?] Marx P. **Fortschr Med** 1989 Nov 30; 107(34):727–32 (0 ref.) (Eng. Abstr.) **(Ger)**

[Late results following thrombendarterectomy of the carotid artery] Wille B, et al. **Med Klin** 1990 May 15;85(5):308–9 **(Ger)**

[Therapy of carotid stenosis in contralateral occlusion of the internal carotid artery] Wandschneider W, et al. **Vasa** 1990; 19(2):134–7 (Eng. Abstr.) **(Ger)**

[False aneurysm: a complication of carotid endarterectomy] Nobel M, et al. **Harefuah** 1990 Mar 1;118(5):260–2 (Eng. Abstr.) **(Heb)**

[Peroperative morbidity and mortality in thromboendarterectomy of the carotid bifurcation in patients with a previous stabilized stroke. Our results and review of the literature] Floriani M, et al. **Ann Ital Chir** 1989;60(2):101–8 (48 ref.) (Eng. Abstr.) **(Ita)**

[Importance of intraoperative H/R ultrasonography in the immediate evaluation of the results of thromboendarterectomy of the carotid bifurcation] Mascoli F, et al. **Minerva Cardioangiol** 1989 Sep;37(9):395–8 (Eng. Abstr.) **(Ita)**

[The value of venous digital angiography in the postoperative follow-up of thromboendarterectomy and aorto-iliac-femoral prosthetic replacement] Origlia PG, et al. **Minerva Med** 1990 Mar;81(3 Suppl):1–3 (Eng. Abstr.) **(Ita)**

[A case of aortitis syndrome with left coronary ostial stenosis and aortic regurgitation treated by transaortic coronary endarterectomy and aortic valve replacement] Katoh T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr; 38(4):667–71 (Eng. Abstr.) **(Jpn)**

[Intraoperative monitoring of cerebral function and carotid hemodynamics during carotid endarterectomy] Okada Y, et al. **No Shinkei Geka** 1989 Oct;17(10):925–31 (Eng. Abstr.) **(Jpn)**

[Evaluation of the results of reconstructive operations in patients with occlusive diseases of the abdominal aorta and its branches] Mikaelian AL, et al. **Khirurgiia (Mosk)** 1990 May;(5):56–9 (Eng. Abstr.) **(Rus)**

[Total vessel obliteration in arteriosclerosis] Lebedev LV, et al. **Vestn Khir** 1990 Jan;144(1):7–13 (Eng. Abstr.) **(Rus)**

[Thrombendarterectomy of the carotid artery in the prevention of cerebrovascular insult] Solaković E. **Acta Chir Iugosl** 1989;36 Suppl 2:684–6 **(Ser)**

[Medico-surgical treatments in ischemic cerebrovascular diseases] Fields WS. **Neurologia** 1988 Sep–Oct;3(5):187–92 (15 ref.) **(Spa)**

ADVERSE EFFECTS

Salvage after postoperative thrombosis of the carotid artery. Dooner J, et al. **Am J Surg** 1990 May;159(5):525–6

Safety and long-term benefit of carotid endarterectomy in the asymptomatic patient. Park Y, et al. **Ann Vasc Surg** 1990 May;4(3):218–22

Vocal cord paralysis following carotid endarterectomy: the paradox of return of function. Sannella NA, et al. **Ann Vasc Surg** 1990 Jan;4(1):42–5

Seizures following carotid endarterectomy. Kieburtz K, et al. **Arch Neurol** 1990 May;47(5):568–70

Analysis of risk factors for myocardial infarction following carotid endarterectomy. Yeager RA, et al. **Arch Surg** 1989 Oct;124(10):1142–5

The influence of barbiturates on cerebral metabolism in patients with borderline cerebrovascular reserve during intraoperative transient carotid occlusion. Wassman H, et al. **Br J Neurosurg** 1989;3(4):429–34

Preoperative hypertension does predict post-carotid endarterectomy hypertension [letter; comment] Gelb AW, et al. **Can J Neurol Sci** 1990 Feb;17(1):95–7 Comment on: Can J Neurol Sci 1989 Aug;16(3):345–7.

Reexploration for thrombosis in carotid endarterectomy. Koslow AR, et al. **Circulation** 1989 Nov;80(5 Pt 2):III73–8

Pharyngeal function after carotid endarterectomy. Ekberg O, et al. **Dysphagia** 1989;4(3):151–4

Pressure measurements as predictors for peroperative neurologic deficits in carotid surgery. Forssell C, et al. **Eur J Vasc Surg** 1990 Apr;4(2):153–8

Early cerebral complications in carotid endarterectomy: risk factors. Salenius JP, et al. **J Cardiovasc Surg (Torino)** 1990 Mar–Apr;31(2):162–7

Cerebral hemodynamic changes and electroencephalography during carotid endarterectomy. Algotsson L, et al. **J Clin Anesth** 1990 May–Jun;2(3):143–51

Cerebral vasoconstriction as a complication of carotid endarterectomy. Case report. Brick JF, et al. **J Neurosurg** 1990 Jul;73(1):151–3

Malfunction of a double-balloon carotid shunt as a result of herniation of the proximal balloon. Eidt JF, et al. **J Vasc Surg** 1990 Jul;12(1):62–4

Cardiac risk in patients undergoing carotid endarterectomy: impact on perioperative and long-term mortality. Mackey WC, et al. **J Vasc Surg** 1990 Feb;11(2):226–33; discussion 233–4

Effect of flunarizine on arterial thrombosis after endarterectomy in rats. Kobayashi H, et al. **Neurol Med Chir (Tokyo)** 1989 Jul;29(7):563–7

Assessing risks associated with carotid endarterectomy [letter] Smith RR. **Stroke** 1990 Apr;21(4):677

Rupture of the vein patch: a rare complication of carotid endarterectomy. Riles TS, et al. **Surgery** 1990 Jan; 107(1):10–2

[Perioperative complications in carotid endarterectomy with respect to the stage of the cerebrovascular disease] De Syo D, et al. **Liječ Vjesn** 1989 Nov;111(11):371–4 (Eng. Abstr.) **(Scr)**

ECONOMICS

Cost effectiveness of regional anesthesia in carotid endarterectomy. Godin MS, et al. **Am Surg** 1989 Nov; 55(11):656–9

INSTRUMENTATION

Mechanism of directed transluminal atherectomy. Johnson DE, et al. **Am J Cardiol** 1990 Feb 1;65(5):389–91

Semiclosed transfemoral iliac endarterectomy with an oscillating ring stripper. Stevick CA, et al. **Ann Vasc Surg** 1989 Oct;3(4):392–6

[Coronary atherectomy using a Rotablator] Fourrier JL. **Ann Cardiol Angeiol (Paris)** 1989 Sep 30;38(7 Pt 2):505–8 (Eng. Abstr.) **(Fre)**

[Mechanical endarterectomy using an original device. Preliminary experimental results] Rengo M, et al. **Minerva Chir** 1990 Jun 15;45(11):785–90 (Eng. Abstr.) **(Ita)**

METHODS

Technical details in carotid endarterectomy. Welten RJ, et al. **Acta Chir Scand Suppl** 1990;555:205–8

Gas endarterectomy. Taylor RS. **Am Heart J** 1968 Sep; 76(3):436–8

Carotid endarterectomy. Gaspar MR. **Am J Surg** 1990 Feb; 159(2):252–5

Another complication of carotid artery shunting during carotid endarterectomy [letter] Waring PH, et al. **Anesthesiology** 1990 Jun;72(6):1099

Carotid and aortic arch endarterectomy using hypothermic arrest with coronary bypass. Nishida H, et al. **Ann Thorac Surg** 1989 Dec;48(6):865–6

Carotid artery stump pressure: how reliable is it in predicting the need for a shunt? Gnanadev DA, et al. **Ann Vasc Surg** 1989 Oct;3(4):313–7

The suitability of expanded PTFE for carotid patch angioplasty. LeGrand DR, et al. **Ann Vasc Surg** 1990 May; 4(3):209–12

Carotid endarterectomy in patients with contralateral carotid occlusion: is the risk increased? McKittrick JE, et al. **Ann Vasc Surg** 1989 Oct;3(4):324–7

Closure of the internal carotid artery after endarterectomy: the advantages of patch angioplasty without its disadvantages. Vanmaele R, et al. **Ann Vasc Surg** 1990 Jan; 4(1):81–4

Initial trial of argon ion laser endarterectomy for peripheral vascular disease. Eugene J, et al. **Arch Surg** 1990 Aug; 125(8):1007–10; discussion 1010–1

Endarterectomy of the left main coronary artery stenosis by a 'transpulmonary artery approach'. Villemot JP, et al. **Eur J Cardiothorac Surg** 1988;2(6):453–7

Should proximal saphenoua vein be used for carotid patch angioplasty: a clinical study of the need for vein in subsequent operations. de Vries AC, et al. **Eur J Vasc Surg** 1990 Jun;4(3):301–4

Comparison of contact and free beam laser endarterectomy. Baribeau Y, et al. **J Surg Res** 1990 Feb;48(2):127–33

Carotid patch angioplasty: immediate and long-term results. Rosenthal D, et al. **J Vasc Surg** 1990 Sep;12(3):326–33

Decision making in the face of uncertainty: the case of carotid endarterectomy. Matchar DB. **Mayo Clin Proc** 1990 May; 65(5):756–60

Prospective study of the effectiveness and durability of carotid endarterectomy. Sundt TM Jr, et al. **Mayo Clin Proc** 1990 May;65(5):625–35

Intracranial vertebral endarterectomy. Ausman JI, et al. **Neurosurgery** 1990 Mar;26(3):465–71

Carotid endarterectomy under local anesthesia supplemented with neuroleptic analgesia. Slutzki S, et al. **Surg Gynecol Obstet** 1990 Feb;170(2):141–4

Saphenous vein rupture pressure, rupture stress, and carotid endarterectomy vein patch reconstruction. Archie JP Jr, et al. **Surgery** 1990 Apr;107(4):389–96

Thoracic research scholarship 1988: pulmonary thromboendarterectomy for chronic thromboembolic pulmonary hypertension at the University of California, San Diego. Iversen S. **Thorac Cardiovasc Surg** 1990 Apr; 38(2):86–90

[Treatment of transient ischemic attack by carotid endarterectomy] Zhou DB. **Chung Hua Wai Ko Tsa Chih** 1989 Dec;27(12):743–5, 781 (Eng. Abstr.) **(Chi)**

[Coronary endarterectomy using an excimer laser. Preliminary peroperative results] Ollivier JP, et al. **Arch Mal Coeur** 1989 Dec;82(12):2009–13 (Eng. Abstr.) **(Fre)**

[A "non-narrowing" patch using the superior thyroid artery in surgery of carotid arteries] Obadia JF, et al. **Presse Med** 1990 Jun 16;19(24):1150–1 (Eng. Abstr.) **(Fre)**

[Emergency surgery of carotid and vertebral arteries in acute cerebral ischemia] Portnoi IM, et al. **Khirurgiia (Mosk)** 1990 May;(5):92–5 (Eng. Abstr.) **(Rus)**

[Selection of the method of renal revascularization in arteriosclerosis of the renal arteries] Spiridonov AA, et al. **Vestn Khir** 1990 Jan;144(1):24–7 (Eng. Abstr.) **(Rus)**

[The use of ultrasound in endarterectomy] Abzianidze GA, et al. **Voen Med Zh** 1989 Oct;(10):49–50 **(Rus)**

MORTALITY

Risk of carotid endarterectomy in the elderly. Fisher ES, et al. **Am J Public Health** 1989 Dec;79(12):1617–20

Antiplatelet treatment prolongs survival after carotid bifurcation endarterectomy. Analysis of the clinical series followed by a controlled trial. Kretschmer G, et al. **Ann Surg** 1990 Mar;211(3):317–22

Current early results of pulmonary thromboendarterectomy for chronic pulmonary embolism. Daily PO, et al. **Eur J Cardiothorac Surg** 1990;4(3):117–21; discussion 122–3

Risk of late stroke and survival following carotid endarterectomy procedures for symptomatic patients. Turner DA, et al. **J Neurosurg** 1990 Aug;73(2):193–200

Should patient age be a consideration in carotid endarterectomy? Pinkerton JA Jr, et al. **J Vasc Surg** 1990 May;11(5):650–8 (13 ref.)

NURSING

Carotid endarterectomy: nursing care and controversies. Fode NC. **J Neurosci Nurs** 1990 Feb;22(1):25–31

STANDARDS

Carotid endarterectomy in community practice: surgeon-specific versus institutional results. Gibbs BF, et al. **Ann Vasc Surg** 1989 Oct;3(4):307–12

UTILIZATION

Does inappropriate use explain small-area variations in the use of health care services? Leape LL, et al. **JAMA** 1990 Feb 2;263(5):669–72

ENDARTERITIS

DIAGNOSIS

[Use of infrared thermography in the diagnosis and treatment of obliterating diseases of the blood vessels of the limbs] Toropov IuD, et al. **Klin Khir** 1989;(7):46–8 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

[Blood flow "stealing" phenomenon in the foot as one of the causes of ischemia of the toes] Krakovskiĭ IA. **Vestn Khir** 1989 Nov;143(11):42–3 (Eng. Abstr.) **(Rus)**

RADIOTHERAPY

[Intravenous laser irradiation of the blood in occlusive vascular diseases of the extremities] Shval'b PG, et al. **Sov Med** 1990;(3):21–3 (Eng. Abstr.) **(Rus)**

SURGERY

[Evaluation of the results of reconstructive operations in patients with occlusive diseases of the abdominal aorta and its branches] Mikaelian AL, et al. **Khirurgiia (Mosk)** 1990 May;(5):56–9 (Eng. Abstr.) **(Rus)**

[The Kirlian method of evaluation of the revascularization of the leg] Gambarian BL, et al. **Sov Med** 1990;(3):80–2 **(Rus)**

THERAPY

[Plasmapheresis in the treatment of patients with vascular diseases] Zakharova GN, et al. **Vestn Khir** 1989 Apr; 142(4):80–4 (Eng. Abstr.) **(Rus)**

ENDO-1,3-BETA-GLUCANASE see under GLYCOSIDE HYDROLASES

ENDO-1,4-BETA-GLUCANASE see CELLULASE

ENDOCARDIAL CUSHION DEFECTS see under HEART SEPTAL DEFECTS

ENDOCARDIAL FIBROELASTOSIS

COMPLICATIONS

Primary endocardial fibroelastosis associated with hydrops fetalis in a premature infant. Wolfson DJ, et al. **Am Heart J** 1990 Sep;120(3):708–11 (17 ref.)

DIAGNOSIS

[Endocardial fibroelastosis of the left ventricle in a patient with Alagille syndrome] Kotthoff S, et al. **Klin Padiatr** 1990 Jan-Feb;202(1):50–2 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Hemodynamic findings in children with endocardial fibroelastosis. Analysis of 22 cases. McLoughlin TG, et al. **Am Heart J** 1968 Feb;75(2):162–72

ENDOCARDITIS

COMPLICATIONS

Transesophageal echocardiographic recognition of mitral valve abnormalities associated with aortic valve endocarditis. Karalis DG, et al. **Am Heart J** 1990 May; 119(5):1209–11

Aneurysm of the mitral-aortic intervalvular fibrosa complicating infective endocarditis: preoperative characterization by two-dimensional and color flow Doppler echocardiography, magnetic resonance imaging, and cineangiography. Schwartz DR, et al. **Am Heart J** 1990 Jan;119(1):196–9

Traumatic coronary arteriovenous fistula communicating the left main coronary artery to pulmonary artery, associated with pulmonary valvular insufficiency and endocarditis: case report. Rangel A, et al. **Angiology** 1990 Feb; 41(2):156–60

Septic peripheral embolization from bacterial and fungal endocarditis. Freischlag JA, et al. **Ann Vasc Surg** 1989 Oct; 3(4):318–23 (17 ref.)

Aspergillus ball thrombus occluding a homograft conduit. Bhatnagar NK, et al. **Eur J Cardiothorac Surg** 1989; 3(3):270–2

Crescentic involved glomerulonephritis in infective endocarditis. Tóth T. **Int Urol Nephrol** 1990;22(1):77–88

Superior mesenteric artery aneurysm secondary to infectious endocarditis. Ohmi M, et al. **J Cardiovasc Surg (Torino)** 1990 Jan-Feb;31(1):115–7

Mycotic aneurysm in a digital artery: case report and literature review. Berrettoni BA, et al. **J Hand Surg [Am]** 1990 Mar;15(2):305–8 (17 ref.)

[Evan's syndrome and pseudolupic circulating anticoagulants during endocarditis with Q fever (letter)] Fest T, et al. **Ann Med Interne (Paris)** 1990;141(1):79–80 **(Fre)**

[Non-infectious mitral endocarditis during Still's disease in adults. A case with histologic study of the endocardium (letter)] Taillan B, et al. **Ann Med Interne (Paris)** 1990; 141(1):78–9 **(Fre)**

[An autopsy case of adenocarcinoma of the lung with signet ring cells, manifesting with aphasia and hemiparesis due to nonbacterial thrombotic endocarditis] Hanazono Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Nov; 27(11):1349–54 (Eng. Abstr.) **(Jpn)**

[Endocarditis caused by Cryptococcus on a native valve, in a patient with AIDS (letter)] Velasco L, et al. **Rev Clin Esp** 1990 Feb;186(2):99–100 **(Spa)**

DIAGNOSIS

Unusual presentation and echocardiographic features of surgically proven nonbacterial thrombotic endocarditis. Habbab MA, et al. **Am Heart J** 1990 Feb;119(2 Pt 1):404–6

Left ventricular mural endocarditis [letter; comment] Leung WH, et al. **Am Heart J** 1989 Dec;118(6):1352–3 Comment on: Am Heart J 1988 Mar;115(3):684–6.

Diagnosing endocarditis with the cloned 112 kDa antigen of Enterococcus faecalis. Burnie JP, et al. **J Immunol Methods** 1989 Oct 24;123(2):217–25

Detection of right-sided endocarditis in children with congenital heart disease by two-dimensional echocardiography. Ozkutlu S, et al. **Jpn Heart J** 1990 Mar; 31(2):175–82

[Is myocardial biopsy necessary in the diagnosis of myocardial diseases? For] Loire R. **Arch Mal Coeur** 1989 Nov;82(11):1887–90 **(Fre)**

[Study of infectious endocarditis using Doppler echocardiography] Roudaut R, et al. **Arch Mal Coeur** 1990 May;83(6):793–803 (23 ref.) (Eng. Abstr.) **(Fre)**

[A case of hypereosinophilic syndrome associated with eosinophilic endocarditis] Ishida T, et al. **Kokyu To Junkan** 1989 Aug;37(8):909–13 (Eng. Abstr.) **(Jpn)**

[A case of candida endocarditis with consecutive measurement of serum mannan and D-arabinitol concentrations] Maeno K, et al. **Kokyu To Junkan** 1990 Jun;38(6):605–8 (Eng. Abstr.) **(Jpn)**

[Isolated hemorrhages in the macula lutea as a precursory sign of endocarditis] Ofierzyńska J, et al. **Klin Oczna** 1988 Dec;90(12):424–5 (Eng. Abstr.) **(Pol)**

[A case of malignant course of the hypereosinophilic syndrome] Kisliak NS, et al. **Gematol Transfuziol** 1990 May; 35(5):26–8 **(Rus)**

[Ultrasonic methods of diagnosing infectious endocarditis in children] Alekseeva OP, et al. **Pediatriia** 1989;(9):66–9 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Successful medical treatment of Candida parapsilosis endocarditis in a premature infant. Faix RG, et al. **Am J Perinatol** 1990 Jul;7(3):272–5

Candidal endocarditis and treatment with fluconazole and granulocyte-macrophage colony-stimulating factor [letter] Martino P, et al. **Ann Intern Med** 1990 Jun 15;112(12):966–7

Evaluation of cilofungin (LY121019) for treatment of experimental Candida albicans endocarditis in rabbits. Padula A, et al. **Antimicrob Agents Chemother** 1989 Oct; 33(10):1822–3

Efficacy of fluconazole in prophylaxis and treatment of experimental Candida endocarditis. Longman LP, et al. **Rev Infect Dis** 1990 Mar-Apr;12 Suppl 3:S294–8

Aspergillus endocarditis: cure without surgical valve replacement. Maderazo EG, et al. **South Med J** 1990 Mar; 83(3):351–2

EPIDEMIOLOGY

Incidence and risk factors of prosthetic valve endocarditis. Arvay A, et al. **Eur J Cardiothorac Surg** 1988;2(5):340–6

Aspergillus endocarditis after open heart surgery: an epidemiological investigation. Mehta G. **J Hosp Infect** 1990 Apr;15(3):245–53

[Endocarditis in heroin addicts: incidence in the Vall d'Hebron General Hospital (letter)] Martínez-Costa X, et al. **Med Clin (Barc)** 1989 May 27;92(20):794 **(Spa)**

ETIOLOGY

Two unusual cardiac complications of gynaecological malignancy: myocardial metastases and non-infective thrombotic endocarditis. Green ST. **Br J Clin Pract** 1990 Feb;44(2):74–5

Neurological manifestations of infective endocarditis. Review of clinical and therapeutic challenges. Jones HR Jr, et al. **Brain** 1989 Oct;112 (Pt 5):1295–315 (95 ref.)

Candida right ventricular mural endocarditis complicating indwelling right atrial catheter. Leung WH, et al. **Chest** 1990 Jun;97(6):1492–3

Adult onset still's disease complicated by endocarditis with fatal evolution [letter] Taillan B, et al. **Clin Rheumatol** 1989 Dec;8(4):541

Endocarditis in intravenous drug abusers. Roberts R, et al. **Emerg Med Clin North Am** 1990 Aug;8(3):665–81 (106 ref.)

Fusarium endocarditis involving aortic valve following coronary artery surgery. Jorens PG, et al. **Eur Heart J** 1990 May;11(5):476–8

Clinical manifestations of enterococcal infection. Lewis CM, et al. **Eur J Clin Microbiol Infect Dis** 1990 Feb;9(2):111–7 (47 ref.)

Infective endocarditis following patch closure of ventricular septal defect: a cross-sectional Doppler echocardiographic study. Shrivastava S, et al. **Int J Cardiol** 1989 Oct; 25(1):27–31

Engyodontium album endocarditis. Augustinsky J, et al. **J Clin Microbiol** 1990 Jun;28(6):1479–81

Culture-negative endocarditis probably due to Chlamydia pneumoniae. Marrie TJ, et al. **J Infect Dis** 1990 Jan; 161(1):127–9 (14 ref.)

Endocarditis and hip arthritis associated with Scedosporium inflatum. Toy EC, et al. **South Med J** 1990 Aug; 83(8):957–60 (17 ref.)

Invasive Aspergillus infections complicating coronary artery bypass grafting. Weber SF, et al. **South Med J** 1990 May; 83(5):584–8

Prosthetic valve endocarditis 1976–1987. Antibiotics, anticoagulation, and stroke. Davenport J, et al. **Stroke** 1990 Jul;21(7):993–9

Neurologic complications of late prosthetic valve endocarditis. Keyser DL, et al. **Stroke** 1990 Mar; 21(3):472–5

Aspergillus endocarditis and myocarditis in a patient with the acquired immunodeficiency syndrome (AIDS). A review of the literature. Cox JN, et al. **Virchows Arch [A]** 1990;417(3):255–9 (38 ref.)

[Heart valve involvement in lupus erythematosus disseminatus. Apropos of 2 cases. Review of the literature] de Groote P, et al. **Ann Cardiol Angeiol (Paris)** 1989 Nov; 38(9):539–44 (53 ref.) (Eng. Abstr.) **(Fre)**

[Cardiological symptoms in collagen diseases] Wójtowicz B. **Pol Arch Med Wewn** 1987 Mar;77(3):112–5 (18 ref.) **(Pol)**

IMMUNOLOGY

Immune complexes in infective endocarditis. Bayer AS, et al. **Springer Semin Immunopathol** 1989;11(4):457–69 (51 ref.)

Autoreactive mechanisms in infective endocarditis. Maisch B. **Springer Semin Immunopathol** 1989;11(4):439–56 (132 ref.)

MICROBIOLOGY

Survival after rupture of the oesophagus and subsequent candidal endocarditis: use of new serological methods in management. de Belder MA, et al. **Eur Heart J** 1989 Sep; 10(9):858–62

PATHOLOGY

Interpretation of endomyocardial biopsies: infectious agents. Olsen EG. **Am J Cardiovasc Pathol** 1989;2(4):329–33 (13 ref.)

The role of endomyocardial biopsy in the diagnosis of cardiac involvement in systemic lupus erythematosus. Salomone E, et al. **Heart Vessels** 1989;5(1):52–3

Endomyocardial biopsy. Pathologic findings in cardiac transplant recipients. Kottke-Marchant K, et al. **Pathol Annu** 1990;25 Pt 1:211–44 (63 ref.)

[Obstructive-restrictive cardiomyopathy. On the clinical aspects and pathology of Löffler endocarditis] Adler CP. **Versicherungsmedizin** 1989 Sep 1;41(5):151–4 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

A comparison of Q fever endocarditis with native valve endocarditis. Marrie TJ. **Ann N Y Acad Sci** 1990;590:61–7

PREVENTION & CONTROL

Factors associated with the recommendation for endocarditis prophylaxis in mitral value prolapse. Lavie CJ, et al. **JAMA** 1989 Dec 15;262(23):3308–12

SURGERY

Candida endocarditis with saddle embolism: a successful surgical intervention. Kawamoto T, et al. **Ann Thorac Surg** 1989 Nov;48(5):723–4

Tricuspid valve Candida endocarditis cured by valve-sparing debridement. Tanaka M, et al. **Ann Thorac Surg** 1989 Dec; 48(6):857–8

[The role of valve replacement in treating valvular endocarditis] Defraigne JO, et al. **Rev Med Liege** 1989 Jul 1–15;44(13–14):445–54 (40 ref.) **(Fre)**

[Combined surgical treatment of endocarditis of the right atrium by Aspergillus sp and pulmonary fungus ball. Report of a case] Stolf N, et al. **Arq Bras Cardiol** 1989 Jul; 53(1):39–41 (Eng. Abstr.) **(Por)**

ENDOCARDITIS, BACTERIAL

see related
ANEURYSM, INFECTED

A case of neonatal endocarditis. Charaf L, et al. **Acta Paediatr Scand** 1990 Jun-Jul;79(6-7):704-6
New concepts in the pathogenesis and modalities of the chemoprophylaxis of native valve endocarditis. Bayer AS. **Chest** 1989 Oct;96(4):893-9 (51 ref.)
The morbidity and mortality pattern of Brucella endocarditis. al-Harthi SS. **Int J Cardiol** 1989 Dec;25(3):321-4
Infective endocarditis [letter] Marshall DA, et al. **Int J Cardiol** 1990 Mar;26(3):387-8
Pneumococcal endocarditis in adult patients. A report of five cases and review of the literature. Bruyn GA, et al. **Q J Med** 1990 Jan;74(273):33-40 (28 ref.)
Characteristics of left-sided endocarditis due to Pseudomonas aeruginosa in the Detroit Medical Center. Komshian SV, et al. **Rev Infect Dis** 1990 Jul-Aug;12(4):693-702
Retrospective analysis of 97 patients with infective endocarditis seen over the past 8 years. Cheng JJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Mar;88(3):213-7
Apyrexic Brucella melitensis aortic valve endocarditis. al-Mudallal DS, et al. **Trop Geogr Med** 1989 Oct; 41(4):372-6
[Infectious endocarditis--are we now better able to diagnose and prevent?] Gutschik E. **Ugeskr Laeger** 1990 Jan 15; 152(3):143 **(Dan)**
[Bacterial endocarditis in pregnancy. Description of 2 cases and review of the literature] Zamprogno R, et al. **Minerva Cardioangiol** 1990 Mar;38(3):85-8 (Eng. Abstr.) **(Ita)**
[Acute bacterial endocarditis in the neonatal period] Nadaždin A. **Med Arh** 1987;41(4):195-8 (Eng. Abstr.) **(Scr)**

BLOOD

The value of C-reactive protein as a marker of bacterial infection in patients with septicaemia/endocarditis and influenza. Lindbäck S, et al. **Scand J Infect Dis** 1989; 21(5):543-9
Procoagulant activity of endocardial vegetations and blood monocytes in rabbits with Streptococcus sanguis endocarditis. Buiting AG, et al. **Thromb Haemost** 1989 Nov 24;62(3):1029-33
[Importance of blood culture in septicemia, particularly bacterial endocarditis] Kezzal K, et al. **Arch Inst Pasteur Alger** 1986;55:41-60 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Pericardial abscess extending from mitral vegetation: an unusual complication of infective endocarditis [see comments] Sandler MA, et al. **Am Heart J** 1989 Oct; 118(4):857-9 Comment in: Am Heart J 1990 Jun;119(6):1449-50.
Diverticulum of the mitral valve complicating bacterial endocarditis: diagnosis by transesophageal echocardiography. Teskey RJ, et al. **Am Heart J** 1989 Nov; 118(5 Pt 1):1063-5
Valvular heart disease, infected valves and prosthetic heart valves. Dalen JE. **Am J Cardiol** 1990 Feb 2;65(6):29C-31C (13 ref.)
Pulmonary-renal syndrome of bacterial endocarditis mimicking Goodpasture's syndrome. Griffin KA, et al. **Am J Kidney Dis** 1989 Oct;14(4):329-32
The triad of Streptococcus bovis bacteremia, colonic pathology, and liver disease. Zarkin BA, et al. **Ann Surg** 1990 Jun;211(6):786-91; discussion 791-2
Early surgical intervention for aortic insufficiency due to bacterial endocarditis. Scott SM, et al. **Ann Thorac Surg** 1967 Feb;3(2):158-61
Septic peripheral embolization from bacterial and fungal endocarditis. Freischlag JA, et al. **Ann Vasc Surg** 1989 Oct; 3(4):318-23 (17 ref.)
Diffuse phlegmonous gastritis. A rare complication of pneumococcal endocarditis. LaForce FM. **Arch Intern Med** 1967 Aug;120(2):230-3
Does the patient with infective endocarditis and a large vegetation on the mitral or aortic valve need surgery? Lewis HS, et al. **Cardiovasc Clin** 1990;21(1):215-26; discussion 227-8 (51 ref.)
Predictive risk factors for periannular extension of native valve endocarditis. Clinical and echocardiographic analyses. Omari B, et al. **Chest** 1989 Dec;96(6):1273-9
Septic pulmonary arteriovenous fistula. An unusual conduit for systemic embolization in right-sided valvular endocarditis. Stagaman DJ, et al. **Chest** 1990 Jun; 97(6):1484-6
Neonatal mitral valve endocarditis: diagnosis and successful management. Bullaboy CA, et al. **Clin Pediatr (Phila)** 1990 Jul;29(7):398-400
Rate of cerebral embolic events in relation to antibiotic and anticoagulant therapy in patients with bacterial endocarditis. Paschalis C, et al. **Eur Neurol** 1990;30(2):87-9
Neurological complications of infective endocarditis. Roos KL. **Indiana Med** 1989 Nov;82(11):866-9
T lymphocyte disorder after Capnocytophaga ochracea endocarditis. Gormand F, et al. **Infection** 1989 Nov-Dec; 17(6):382-4
Coronary embolism causing myocardial infarction. Kraus PA, et al. **Intensive Care Med** 1990;16(3):215-6
Left ventricular outflow tract to left atrial communication secondary to rupture of mitral-aortic intervalvular fibrosa in infective endocarditis: diagnosis by transesophageal echocardiography and color flow imaging. Bansal RC, et al. **J Am Coll Cardiol** 1990 Feb;15(2):499-504
Aorta to right atrium fistula caused by endocarditis: diagnosis by color Doppler echocardiography. Tunick PA, et al. **J Am Soc Echocardiogr** 1989 Jan-Feb;2(1):53-5
Infective endocarditis in intravenous drug users: a comparison of human immunodeficiency virus type 1-negative and -positive patients. Nahass RG, et al. **J Infect Dis** 1990 Oct;162(4):967-70
A five-year-old girl with acute renal failure and multiple cerebral infractions [clinical conference] Mauro RD, et al. **J Pediatr** 1989 Nov;115(5 Pt 1):816-23
Mitral valve replacement in a 15-month-old child with endocarditis [letter] Duncan WJ, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):151-2
Echocardiographic assessment of aneurysm of the aortic valve caused by infective endocarditis--a case report. Morimoto K, et al. **Jpn Circ J** 1989 Jul;53(7):819-24
Osteomyelitis complicating Streptococcus milleri endocarditis. Barham NJ, et al. **Postgrad Med J** 1990 Apr; 66(774):314-5
Infected atrial myxoma. Chow WH, et al. **Postgrad Med J** 1989 Sep;65(767):671-3 (17 ref.)
Extensive aortic valve ring abscess formation: a rare complication of Q fever endocarditis. Fort S, et al. **Postgrad Med J** 1989 Jun;65(764):384-6
Bacterial calcification in infective endocarditis. Poller DN, et al. **Postgrad Med J** 1989 Sep;65(767):665-7
Aeromonas endocarditis in a patient with chronic hepatitis-B infection. Cheong TH, et al. **Singapore Med J** 1989 Oct; 30(5):490-2
Stroke in infective endocarditis. Hart RG, et al. **Stroke** 1990 May;21(5):695-700
Kingella kingae endocarditis in a patient with the acquired immunodeficiency syndrome. Kerlikowske K, et al. **West J Med** 1989 Nov;151(5):558-60
[Staphylococcus aureus endocarditis with large vegetation and emboli: report of a case] Hsu HS, et al. **Acta Paediatr Sin** 1989 Mar-Apr;30(2):123-8 (Eng. Abstr.) **(Chi)**
[Thromboendocarditis in a neonate] Kokštein Z, et al. **Cesk Pediatr** 1989 Nov;44(11):672-4 **(Cze)**
[Splenic rupture, sometimes a fatal complication of bacterial endocarditis] Sadee AS, et al. **Ned Tijdschr Geneeskd** 1989 Oct 14;133(41):2038-9 (Eng. Abstr.) **(Dut)**
[Aortic and mitral endocarditis caused by Haemophilus paraphrophilus with abscess of the aortic ring and cerebral embolism] Cohen A, et al. **Arch Mal Coeur** 1989 Oct; 82(10):1761-5 (Eng. Abstr.) **(Fre)**
[Bacterial endocarditis in acute anterior uveitis] Mathot E, et al. **Bull Soc Ophtalmol Fr** 1988 Dec;88(12):1427-8 (Eng. Abstr.) **(Fre)**
[Arterial embolism of the limbs in infectious endocarditis of the heart valves] de Gennes C, et al. **Presse Med** 1990 Jun 23;19(25):1177-81 (Eng. Abstr.) **(Fre)**
[Osler's endocarditis possibly caused by Chlamydia pneumoniae (TWAR stain) (letter)] Dumont D, et al. **Presse Med** 1990 Jun 2;19(22):1054 **(Fre)**
[Listeria monocytogenes endocarditis in a patient with mechanical valve prosthesis (letter)] Lazanas M, et al. **Presse Med** 1990 Mar 31;19(12):571 **(Fre)**
[A clinical case. Infectious endocarditis] Rosselli A, et al. **G Clin Med** 1990 Feb;71(2):145-6 **(Ita)**
[A case of ruptured aneurysm of the sinus of Valsalva with bacterial endocarditis] Ozaki T, et al. **Kyobu Geka** 1989 Sep;42(10):876-8 (Eng. Abstr.) **(Jpn)**
[A case report of mitral valve regurgitation due to the infective endocarditis associated with the straight back syndrome] Takeuchi E, et al. **Nippon Geka Gakkai Zasshi** 1990 Jul;91(7):914-7 (Eng. Abstr.) **(Jpn)**
[Simultaneous operation of WPW syndrome combined with mitral regurgitation caused by infective endocarditis] Sueda T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Mar; 38(3):508-12 (Eng. Abstr.) **(Jpn)**
[A case of bacterial endocarditis manifested by severe back pain as initial symptom] Tsuchiya H, et al. **Nippon Naika Gakkai Zasshi** 1989 Dec;78(12):1781-2 **(Jpn)**
[Internuclear ophthalmoplegia: initial and isolated clinical findings in bacterial endocarditis] Werneck AL, et al. **Arq Neuropsiquiatr** 1990 Mar;48(1):116-8 (Eng. Abstr.) **(Por)**
[Infective endocarditis of pulmonary valve. Considerations apropos of a case associated with interventricular communication and aortic insufficiency] Branco LM, et al. **Rev Port Cardiol** 1990 Mar;9(3):221-5 (Eng. Abstr.) **(Por)**
[Surgical correction of aortic valve defect in acute phase of bacterial endocarditis] Malyshev IuI, et al. **Grudn Khir** 1989 Jul-Aug;(4):85-6 **(Rus)**
[Glomerulonephritis in infectious endocarditis] Diadyk AI, et al. **Revmatologiia (Mosk)** 1989 Jul-Sep;(3):29-36 (114 ref.) **(Rus)**
[Neurologic and mental disorders in infectious endocarditis] Chekneva NS, et al. **Sov Med** 1989;(10):99-103 **(Rus)**
[Infectious endocarditis in patients with liver cirrhosis] Otones J, et al. **Med Clin (Barc)** 1989 Nov 11;93(15):561-4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Diagnostic accuracy of M-mode and 2D echocardiography in infective endocarditis: clinical correlations. Marszal-Marciniak M, et al. **Acta Cardiol** 1990;45(2):107-12
Diagnosis of infective endocarditis on a Starr-Edwards prosthesis by transesophageal echocardiography. Culver DL, et al. **Am Heart J** 1990 Apr;119(4):972-3
The echocardiographic recognition of an atrial myxoma vegetation. Tunick PA, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):679-80
Infective perivalvular abscess of the aortic ring: echocardiographic features and clinical course. Byrd BF 3d, et al. **Am J Cardiol** 1990 Jul 1;66(1):102-5
Indium-111 leukocyte scintigraphic detection of mitral valve vegetations in active bacterial endocarditis. Cerqueira MD, et al. **Am J Cardiol** 1989 Nov 1;64(16):1080-1
The source of recurrent bacteremia identified by trans-esophageal echocardiography. Porkolab FL, et al. **Ann Intern Med** 1990 Apr 15;112(8):628-9
Enhanced morphological diagnosis in infective endocarditis by transoesophageal echocardiography. Taams MA, et al. **Br Heart J** 1990 Feb;63(2):109-13
Transesophageal echocardiography [letter; comment] Stöllberger C, et al. **Intensive Care Med** 1989;15(7):478-9 Comment on: Intensive Care Med 1989;15(2):126-8.
Infective endocarditis, 1983-1988: echocardiographic findings and factors influencing morbidity and mortality [see comments] Jaffe WM, et al. **J Am Coll Cardiol** 1990 May;15(6):1227-33 Comment in: J Am Coll Cardiol 1990 May;15(6):1234-7.
The diagnostic and prognostic role of cardiovascular ultrasound in endocarditis: bigger is not better [comment] Martin RP. **J Am Coll Cardiol** 1990 May;15(6):1234-7 Comment on: J Am Coll Cardiol 1990 May;15(6):1227-33.
Staphylococcus lugdenensis and endocarditis [letter] Walsh B, et al. **J Clin Pathol** 1990 Feb;43(2):171
Streptococcus viridans osteomyelitis with endocarditis presenting as acute onset lower back pain. Buchman AL. **J Emerg Med** 1990 May-Jun;8(3):291-4
Endocarditis in Cameroon. Blackett K. **J R Coll Physicians Lond** 1989 Oct;23(4):260-3
Echocardiographic detection of aortic valve ring abscesses. Russo G, et al. **J Ultrasound Med** 1990 Jun;9(6):319-23
"GOMER" go home [letter] Cher LM. **Med J Aust** 1989 Nov 20;151(10):602
Bacterial endocarditis in children: clinical and laboratory findings, and the role of echocardiography in its diagnosis and management. Sastroasmoro S, et al. **Paediatr Indones** 1989 Sep-Oct;29(9-10):188-98
Low back pain as the only presenting symptom in Streptococcus sanguis endocarditis [letter] Kerr KG. **Rev Infect Dis** 1989 Sep-Oct;11(5):836-7
Isolated tricuspid valve infective endocarditis. A report of 6 cases. Naidoo DP, et al. **S Afr Med J** 1990 Jul 7;78(1):34-8
[Endocarditis in an infant with a normal heart with only febrile manifestation (letter)] Druon D, et al. **Arch Fr Pediatr** 1990 Mar;47(3):227-8 **(Fre)**
[Doppler ultrasound--anatomy correlations in 45 cases of infectious endocarditis] Mzah N, et al. **Tunis Med** 1989 Nov;67(11):665-70 (Eng. Abstr.) **(Fre)**
[Clinical aspects of infectious endocarditis] Maisch B. **Internist (Berlin)** 1989 Aug;30(8):483-91 (50 ref.) **(Ger)**
[Bacterial heart diseases in childhood. An overview of diseases 1971-1987] Meister EM, et al. **Kinderarztl Prax** 1990 May;58(5):227-32 (Eng. Abstr.) **(Ger)**
[Infective endocarditis--diagnostic and therapeutic management] Kirchner K, et al. **Z Arztl Fortbild (Jena)** 1990;84(11):525-9 (10 ref.) **(Ger)**
[Significance of echocardiography for the diagnosis and strategy in infectious endocarditis] Steidl C, et al. **Z Gesamte Inn Med** 1990 May 1;45(9):241-5 (Eng. Abstr.) **(Ger)**
[Infectious endocarditis following orthotopic heart transplantation] Spes CH, et al. **Z Kardiol** 1990 Jan; 79(1):66-8 (Eng. Abstr.) **(Ger)**
[Septic arthritis as an initial manifestation of endocarditis] Baerwald C, et al. **Z Rheumatol** 1990 May-Jun;49(3):165-8 (Eng. Abstr.) **(Ger)**
[Bacterial endocarditis in clinical and echocardiographic observations] Trzesicka M, et al. **Wiad Lek** 1989 Nov 15-Dec 15;42(22-24):1104-9 (Eng. Abstr.) **(Pol)**
[Hemoculture in patients with infective endocarditis. Current patterns and our experience] Mendes CM, et al. **Arq Bras Cardiol** 1989 Aug;53(2):75-9 (33 ref.) **(Por)**
[Lesions of the cardiovascular system in Q fever] Loban KM. **Klin Med (Mosk)** 1989 Aug;67(8):26-9 (17 ref.) **(Rus)**
[Infectious endocarditis in hypertrophic cardiomyopathy] Novikov IuI, et al. **Ter Arkh** 1990;62(5):85-9 (Eng. Abstr.) **(Rus)**
[Right-sided infectious endocarditis. Experience with a series of 35 patients] Mesa JM, et al. **Rev Esp Cardiol** 1990 Jan; 43(1):13-7 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Effects of dosage, peak and trough concentrations in serum, protein binding, and bactericidal rate on efficacy of teicoplanin in a rabbit model of endocarditis. Chambers HF, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):510-4
Activity of sulbactam in combination with ceftriaxone in vitro and in experimental endocarditis caused by Escherichia coli producing SHV-2-like beta-lactamase. Fantin B, et al. **Antimicrob Agents Chemother** 1990 Apr; 34(4):581-6

Oral temafloxacin versus vancomycin for therapy of experimental endocarditis caused by methicillin-resistant Staphylococcus aureus. Hessen MT, et al.
Antimicrob Agents Chemother 1990 Jun;34(6):1143-5

Efficacy of ofloxacin in experimental Staphylococcus aureus endocarditis. Kaatz GW, et al.
Antimicrob Agents Chemother 1990 Feb;34(2):257-60

Ciprofloxacin and rifampin, alone and in combination, for therapy of experimental Staphylococcus aureus endocarditis. Kaatz GW, et al.
Antimicrob Agents Chemother 1989 Aug;33(8):1184-7

Teicoplanin in the treatment of gram-positive-bacterial endocarditis. Martino P, et al.
Antimicrob Agents Chemother 1989 Aug;33(8):1329-34

Tolerance and efficacy of parenterally administered penicillin-streptomycin and orally administered amoxicillin or penicillin V for prophylaxis of experimentally induced streptococcal endocarditis. Pujadas R, et al.
Antimicrob Agents Chemother 1990 Feb;34(2):321-5

Ciprofloxacin therapy of experimental endocarditis caused by methicillin-resistant Staphylococcus epidermidis. Rouse MS, et al. **Antimicrob Agents Chemother** 1990 Feb; 34(2):273-6

Vancomycin for Staphylococcus aureus endocarditis in intravenous drug users. Small PM, et al.
Antimicrob Agents Chemother 1990 Jun;34(6):1227-31

Efficacy of oxacillin and ampicillin-sulbactam combination in experimental endocarditis caused by beta-lactamase-hyperproducing Staphylococcus aureus. Thauvin-Eliopoulos C, et al.
Antimicrob Agents Chemother 1990 May;34(5):728-32

Efficacy of teicoplanin in two dosage regimens for experimental endocarditis caused by a beta-lactamase-producing strain of Enterococcus faecalis with high-level resistance to gentamicin. Yao JD, et al.
Antimicrob Agents Chemother 1990 May;34(5):827-30

Vancomycin-aminoglycoside combinations in therapy of endocarditis caused by Enterococcus species and Streptococcus bovis. Besnier JM, et al.
Eur J Clin Microbiol Infect Dis 1990 Feb;9(2):130-3

Treatment failure with teicoplanin and response to oral antibiotic regimens [letter] McWhinney PH.
Eur J Clin Microbiol Infect Dis 1990 Jun;9(6):439-40

Successful treatment of Brucella melitensis endocarditis with pefloxacin [letter] Micozzi A, et al.
Eur J Clin Microbiol Infect Dis 1990 Jun;9(6):440-2

Endocarditis due to Streptococcus agalactiae: a favorable outcome with conservative treatment. Guijarro-Morales A, et al. **Int J Cardiol** 1990 Aug;28(2):267-9

The effect of slime production on vancomycin efficacy in the treatment of experimental endocarditis due to Staphylococcus epidermidis. Baddour LM, et al.
J Antimicrob Chemother 1989 Sep;24(3):365-73

Staphylococcal bacteraemia and endocarditis and fusidic acid. Eykyn SJ. **J Antimicrob Chemother** 1990 Feb;25 Suppl B:33-8

Brucella endocarditis cured by medical treatment [letter] Cisneros JM, et al. **J Infect Dis** 1989 Nov;160(5):907

Clindamycin effect on glycocalyx production in experimental viridans streptococcal endocarditis. Dall L, et al.
J Infect Dis 1990 Jun;161(6):1221-4

Brucella endocarditis cured by medical treatment [letter] Farid Z. **J Infect Dis** 1990 Jul;162(1):281

Emergence of teicoplanin resistance during therapy of Staphylococcus aureus endocarditis. Kaatz GW, et al.
J Infect Dis 1990 Jul;162(1):103-8

Treatment of prosthetic valve endocarditis due to methicillin-resistant Staphylococcus aureus with minocycline [letter] Lawlor MT, et al. **J Infect Dis** 1990 Apr;161(4):812-4

Ciprofloxacin resistance and staphylococcal endocarditis [letter; comment] **Lancet** 1989 Dec 23-30; 2(8678-8679):1525-6 Comment on: Lancet 1989 Nov 4;2(8671):1071-3.

Treatment of right-sided Staphylococcus aureus endocarditis in intravenous drug users with ciprofloxacin and rifampicin [see comments] Dworkin RJ, et al. **Lancet** 1989 Nov 4; 2(8671):1071-3 Comment in: Lancet 1989 Dec 23-30;2(8678-8679):1525-6.

Ciprofloxacin in a case of Q fever endocarditis [letter] Yebra M, et al. **N Engl J Med** 1990 Aug 30;323(9):614

Treatment of endocarditis caused by relatively resistant nonenterococcal streptococci: is penicillin enough? DiNubile MJ. **Rev Infect Dis** 1990 Jan-Feb;12(1):112-7 (69 ref.)

Gentamicin-resistant enterococci and endocarditis [letter; comment] Holliman RE. **Rev Infect Dis** 1989 Nov-Dec; 11(6):1034-5 Comment on: Rev Infect Dis 1989 Mar-Apr;11(2):325-8.

Gentamicin-resistant enterococcal endocarditis: the need for routine screening for high-level resistance to aminoglycosides. Libertin CR, et al. **South Med J** 1990 Apr;83(4):458-60

[A fosfomycin-gentamicin combination in the treatment of experimental endocarditis caused by Klebsiella pneumoniae producing type TEM-3 beta-lactamase] Caron F, et al. **Pathol Biol (Paris)** 1989 Dec;37(10):1095-7 (Eng. Abstr.) **(Fre)**

[Recommendations for the treatment of infectious endocarditis] Niebel J. **Dtsch Med Wochenschr** 1990 Jul 13;115(28-29):1110-8 (81 ref.) **(Ger)**

[Comment on the contribution by H. Lode and R. Schröder: "Possibilities for errors in endocarditis therapy"] Tauchnitz C. **Internist (Berl)** 1990 Feb;31(2):166 **(Ger)**

[Possibilities for errors in endocarditis therapy] Lode H, et al. **Internist (Berlin)** 1989 Aug;30(8):492-7 (24 ref.) **(Ger)**

[Oxacillin-induced granulocytopenia] Bormann M, et al. **Kinderarztl Prax** 1989 Jul;57(7):335-8 (Eng. Abstr.) **(Ger)**

[A successful treatment of an infective endocarditis caused by methicillin-resistant Staphylococcus aureus with a combination of cefmetazole with fosfomycin] Fukuda K, et al. **Jpn J Antibiot** 1989 Sep;42(9):1913-8 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Influence of referral bias on the apparent clinical spectrum of infective endocarditis. Steckelberg JM, et al.
Am J Med 1990 Jun;88(6):582-8

Bacterial endocarditis at a small community hospital. Kim EL, et al. **Am J Med Sci** 1990 Feb;299(2):87-93

Increasing frequency of staphylococcal infective endocarditis. Experience at a university hospital, 1981 through 1988. Sanabria TJ, et al. **Arch Intern Med** 1990 Jun;150(6):1305-9

The evolving pattern of pediatric endocarditis from 1960 to 1985. Coutlée F, et al. **Can J Cardiol** 1990 May;6(4):164-70

The incidence of bacteremia associated with emergent intubation: relevance to prophylaxis against bacterial endocarditis. Cannon LA, et al. **Ohio Med** 1990 Aug; 86(8):596-9

Neurological presentations of native valve endocarditis. Gransden WR, et al. **Q J Med** 1989 Dec;73(272):1135-42

Infective endocarditis at the University Hospital of the West Indies. A postmortem evaluation. Coard KC, et al.
West Indian Med J 1989 Dec;38(4):217-21

[Current epidemiological characteristics of infectious endocarditis] Crociani P, et al. **G Ital Cardiol** 1990 Jan; 20(1):66-71 (62 ref.) **(Ita)**

[Infective endocarditis in heroin addicts in the province of Cadiz (letter)] Torres Tortosa M, et al.
Med Clin (Barc) 1989 Sep 30;93(9):356-7 **(Spa)**

ETHNOLOGY

Infective endocarditis in black South African children: report of 10 cases with some unusual features. Berkowitz FE, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):787-91

ETIOLOGY

Moraxella endocarditis following balloon angioplasty of aortic coarctation. Sanyal SK, et al. **Am Heart J** 1990 Jun; 119(6):1421-3

Occult polymicrobial endocarditis with Haemophilus parainfluenzae [letter; comment] **Am J Med** 1989 Oct; 87(4):487-9 Comment on: Am J Med 1989 Feb;86(2):169-72.

Comparison of Coxiella burnetii plasmids to homologous chromosomal sequences present in a plasmidless endocarditis-causing isolate. Savinelli EA, et al.
Ann N Y Acad Sci 1990;590:523-33

Right sided endocarditis after balloon dilatation of the pulmonary valve. Kalra GS, et al. **Br Heart J** 1990 Jun; 63(6):368-9

Right-sided valvular endocarditis supported by an unexpected intracardiac foreign body. Balbi M, et al.
Chest 1990 Jun;97(6):1486-8

Valve site-specific pathogenetic differences between right-sided and left-sided bacterial endocarditis. Bayer AS, et al. **Chest** 1990 Jul;98(1):200-5 (43 ref.)

Native valve infective endocarditis in the 1970s versus the 1980s: underlying cardiac lesions and infecting organisms. Weinberger I, et al. **Clin Cardiol** 1990 Feb;13(2):94-8

Eikenella corrodens infection of the oral cavity as a cause of bacterial endocarditis. Bigl P, et al. **Czech Med** 1990; 13(1):38-42

Corynebacterium xerosis as a cause of community-acquired endocarditis [letter] Røder BL, et al.
Eur J Clin Microbiol Infect Dis 1990 Mar;9(3):233-4

Phenotypic characterization of Streptococcus sanguis virulence factors associated with bacterial endocarditis. Herzberg MC, et al. **Infect Immun** 1990 Feb;58(2):515-22

Endocarditis caused by Gemella haemolysans. Kaufhold A, et al. **Infection** 1989 Nov-Dec;17(6):385-7

Brucella endocarditis. Report of one case and review of the literature. Valliattu J, et al. **J Cardiovasc Surg (Torino)** 1989 Sep-Oct;30(5):782-5 (38 ref.)

Association of cell-adherent glycocalyx and endocarditis production by viridans group streptococci. Dall LH, et al. **J Clin Microbiol** 1990 Aug;28(8):1698-700

Endocarditis associated with Comamonas acidovorans. Horowitz H, et al. **J Clin Microbiol** 1990 Jan;28(1):143-5

Cardiovascular infections: bacterial endocarditis of oral origin. Pathogenesis and prophylaxis. Nord CE, et al.
J Clin Periodontol 1990 Aug;17(7 (Pt 2)):494-6 (4 ref.)

Gonococcal endocarditis [letter; comment] Jurica JV.
J Fam Pract 1989 Dec;29(6):600 Comment on: J Fam Pract 1989 Sep;29(3):305, 309-10.

Infective endocarditis in South African children. Hugo-Hamman CT, et al. **J Trop Pediatr** 1989 Aug; 35(4):154-8

Mitral valve prolapse and infective endocarditis [letter] [published erratum appears in Lancet 1989 Nov 25;2(8674):1290] [comment] Prassler R. **Lancet** 1989 Nov 11;2(8672):1165 Comment on: Lancet 1989 Apr 8;1(8641):743-5.

Production of procoagulant activity, tissue factor-like, by human mononuclear cells and its role in the pathogenesis of Legionella prosthetic valve endocarditis. Miragliotta G, et al. **Med Hypotheses** 1989 Oct;30(2):73-4

Endocarditis associated with prosthetic cardiac valves. Chen SC, et al. **Med J Aust** 1990 May 7;152(9):458, 461-3

Gonococcal endocarditis: a new look at an old disease. Wall TC, et al. **Medicine (Baltimore)** 1989 Nov;68(6):375-80 (38 ref.)

Tricuspid endocarditis complicating transvenous permanent pacemaker implantation. Muraguchi T, et al.
Nippon Geka Hokan 1988 Nov 1;57(6):545-51

Infectious endocarditis in children. Parras F, et al.
Pediatr Cardiol 1990 Apr;11(2):77-81

Gentamicin-resistant enterococci and endocarditis. Holliman R, et al. **Postgrad Med J** 1989 Jun;65(764):390-3

Mixed bacterial endocarditis in an intravenous drug misuser [letter] Nathwani D, et al. **Postgrad Med J** 1990 Jan; 66(771):70

Coxiella burnetii infection in prosthetic devices [letter; comment] Khavkin T. **Rev Infect Dis** 1989 Sep-Oct; 11(5):835 Comment on: Rev Infect Dis 1988 Nov-Dec;10(6):1102-17.

Catheter-related right-sided endocarditis in bone marrow transplant recipients. Martino P, et al. **Rev Infect Dis** 1990 Mar-Apr;12(2):250-7

Infection due to Actinobacillus actinomycetemcomitans [letter; comment] Piliero P, et al. **Rev Infect Dis** 1989 Nov-Dec;11(6):1033-4 Comment on: Rev Infect Dis 1989 Jan-Feb;11(1):46-63.

Erysipelothrix endocarditis with previous cutaneous lesion: report of a case and review of the literature. Rocha MP, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jul-Aug; 31(4):286-9 (35 ref.)

Eikenella corrodens: an unusual cause of endocarditis in a patient with silent mitral valve prolapse. Hansen LA, et al. **S D J Med** 1989 Nov;42(11):5-8

Recurrent bacterial endocarditis in a man with tetralogy of Fallot: earliest recurrence on record. Noreuil TO, et al.
South Med J 1990 Apr;83(4):455-7 (13 ref.)

Meningococcal endocarditis on an Ionescu-Shiley aortic valve prosthesis: successful treatment with intravenous penicillin. Stenberg RG, et al. **South Med J** 1989 Oct; 82(10):1314

[Endocarditis after extracorporeal circulation surgery] Wang YW, et al.
Chung Hua Hsin Hsueh Kuan Ping Tsa Chih 1989 Aug; 17(4):194-6, 251 (Eng. Abstr.) **(Chi)**

[Endocarditis caused by Nocardia asteroides on an aortic bioprosthesis complicated by a mycotic hepatic aneurysm (letter)] Ayral X, et al. **Ann Med Interne (Paris)** 1989; 140(7):652-4 **(Fre)**

[Neonatal infectious endocarditis. Apropos of 5 cases] Hernández I, et al. **Arch Mal Coeur** 1990 May;83(5):627-31 (12 ref.) (Eng. Abstr.) **(Fre)**

[Right heart endocarditis] Bloch K, et al.
Schweiz Med Wochenschr 1989 Nov 25;119(47):1664-72 (33 ref.) (Eng. Abstr.) **(Ger)**

[Clinical aspects of staphylococcal endocarditis] Garzoni D, et al. **Schweiz Med Wochenschr** 1990 Jan 10;120(1-2):21-6 (Eng. Abstr.) **(Ger)**

[Conduction disorders in aortic periprosthetic abscesses] Russo G, et al. **Cardiologia** 1989 Jul;34(7):629-33 (Eng. Abstr.) **(Ita)**

[A case of infective endocarditis due to Streptococcus agalactiae] Takasugi T, et al. **Kansenshogaku Zasshi** 1989 Sep;63(9):1038-42 (Eng. Abstr.) **(Jpn)**

[A case of right-sided infective endocarditis in a drug addict] Ohshima H, et al. **Kokyu To Junkan** 1990 Mar;38(3):277-81 (Eng. Abstr.) **(Jpn)**

[A case of ventricular septal defect with tricuspid regurgitation complicating infective endocarditis] Ishibashi Y, et al. **Kyobu Geka** 1990 Feb;43(2):143-6 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Infectious endocarditis due to Streptococcus bovis with suspected relationship with colon cancer] Sogo T, et al. **Nippon Naika Gakkai Zasshi** 1989 Jun;78(6):835-9 **(Jpn)**

[Bacterial endocarditis caused by Enterobacter agglomerans in a patient with mitral valve prolapse] Hrabińska-Zachwieja J, et al. **Wiad Lek** 1989 Apr 1; 42(7):453-5 (Eng. Abstr.) **(Pol)**

[Septic pulmonary embolism and endocarditis caused by Staphylococcus aureus in the tricuspid valve after infectious abortion. Report of 2 cases] Pimentel M, et al. **Arq Bras Cardiol** 1989 Jun;52(6):337-40 (Eng. Abstr.) **(Por)**

[Infectious endocarditis in a healthy valve, arising from another valve] Guadalajara-Boo JF, et al.
Arch Inst Cardiol Mex 1989 Nov-Dec;59(6):607-10 (Eng. Abstr.) **(Spa)**

[Endocarditis caused by Staphylococcus aureus as a complication of right heart catheterization (letter)] Pujadas R, et al. **Med Clin (Barc)** 1990 Feb 17;94(6):237 **(Spa)**

[Endocarditis due to Corynebacterium xerosis] Gómez MA, et al. **Medicina (B Aires)** 1989;49(1):62-4 (Eng. Abstr.) **(Spa)**

[Endocarditis caused by Neisseria subflava (letter)] Baquero M, et al. **Rev Clin Esp** 1989 Nov;185(8):425-6 **(Spa)**

[Endocarditis caused by penicillin-resistant Streptococcus

pneumoniae (letter)] Dronda F, et al. **Rev Clin Esp** 1989 Nov;185(7):383–4 **(Spa)**

[Endocarditis caused by Staphylococcus aureus in drug addicts and non-addicts: the same microbe in 2 diseases] Verdejo C, et al. **Rev Clin Esp** 1989 Jul–Aug;185(3):123–7 (Eng. Abstr.) **(Spa)**

[Endocarditis caused by Coxiella burnetii in aortic prosthesis. Presentation of a case with a fatal course] Martínez Sande JL, et al. **Rev Esp Cardiol** 1990 Feb;43(2):127–9 (Eng. Abstr.) **(Spa)**

[Mitro-aortic endocarditis caused by Listeria monocytogenes] Ochoteco A, et al. **Rev Esp Cardiol** 1990 Feb;43(2):123–6 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Infective endocarditis, rheumatoid factor, and anticardiolipin antibodies. Asherson RA, et al. **Ann Rheum Dis** 1990 Feb; 49(2):107–8

Immunopathogenetic aspects of infective endocarditis. Bayer AS, et al. **Chest** 1990 Jan;97(1):204–12 (51 ref.)

Antibody responses to protein A in patients with Staphylococcus aureus bacteremia and endocarditis. Greenberg DP, et al. **J Clin Microbiol** 1990 Mar; 28(3):458–62

Serological response in Enterococcus faecalis endocarditis determined by enzyme-linked immunosorbent assay. Shorrock PJ, et al. **J Clin Microbiol** 1990 Feb;28(2):195–200

[Circulating immune complexes in infective endocarditis] Deck C, et al. **Rev Med Chil** 1988 Nov;116(11):1101–4 **(Spa)**

METABOLISM

Intravegetation antimicrobial distribution in aortic endocarditis analyzed by computer-generated model. Implications for treatment. Bayer AS, et al. **Chest** 1990 Mar;97(3):611–7

MICROBIOLOGY

Actinobacillus prosthetic valve endocarditis. Hamori PJ, et al. **Am Heart J** 1989 Oct;118(4):853–4

Prosthetic valve endocarditis caused by gram-negative bacilli of the HACEK group [letter; comment] Tornos MP, et al. **Am J Med** 1990 Jan;88(1N):64N Comment on: Am J Med 1988 Jul;85(1):104–7.

Serratia marcescens endocarditis. Report of a patient. Williams JC Jr, et al. **Arch Intern Med** 1970 Jun; 125(6):1038–40

Susceptibilities to ceftriaxone of streptococcal strains associated with infective endocarditis. Etienne J, et al. **Chemotherapy** 1989;35(5):355–9

Corynebacterium jeikeium (group JK diphtheroids) endocarditis. A report of five cases. Vanbosterhaut B, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3):265–8

Vertebral osteomyelitis and native valve endocarditis caused by Staphylococcus warneri. Wood CA, et al. **Diagn Microbiol Infect Dis** 1989 May–Jun;12(3):261–3

Septicemia and endocarditis caused by group G streptococci in a Norwegian hospital. Bucher A, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):251–6

Erysipelothrix rhusiopathiae endocarditis. Venditti M, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):50–2

Native valve endocarditis caused by an organism resembling Corynebacterium striatum. Markowitz SM, et al. **J Clin Microbiol** 1990 Jan;28(1):8–10

Preoperative screening cultures in the identification of staphylococci causing wound and valvular infections in cardiac surgery. Ridgway EJ, et al. **J Hosp Infect** 1990 Jan;15(1):55–63

Fatal Staphylococcus saprophyticus native valve endocarditis in an intravenous drug addict [letter] Singh VR, et al. **J Infect Dis** 1990 Sep;162(3):783–4

Instability of characteristics amongst coagulase-negative staphylococci causing endocarditis. Etienne J, et al. **J Med Microbiol** 1990 Jun;32(2):115–22

Unusual pathogens in narcotic-associated endocarditis. Szabo S, et al. **Rev Infect Dis** 1990 May–Jun;12(3):412–5

[Prosthetic valve endocarditis caused by Haemophilus parainfluenzae] Christensen I, et al. **Ugeskr Laeger** 1990 Jan 15;152(3):168 (Eng. Abstr.) **(Dan)**

[Kingella denitrificans endocarditis on an aortic valve prosthesis] Berdah J, et al. **Presse Med** 1989 Oct 7; 18(31):1517–8 (6 ref.) (Eng. Abstr.) **(Fre)**

[The isolation of Kingella kingae by hemoculture must always suggest the diagnosis of endocarditis (letter)] Dayan A, et al. **Presse Med** 1989 Sep 2–9;18(27):1340–1 **(Fre)**

[Hemodynamic factors in septic heart disease] Puerta Fonolla AJ. **An R Acad Nac Med (Madr)** 1989;106(3):375–85 (37 ref.) **(Spa)**

[Infective endocarditis caused by coagulase-negative staphylococci: a review of 19 cases (see comments)] Aznar R, et al. **Med Clin (Barc)** 1989 Dec 9;93(19):721–6 (Eng. Abstr.) Comment in: Med Clin (Barc) 1989 Dec 9;93(19):735–6. **(Spa)**

[Infective endocarditis caused by coagulase-negative staphylococci (comment)] Tornos MP. **Med Clin (Barc)** 1989 Dec 9;93(19):735–6 (13 ref.) Comment on: Med Clin (Barc) 1989 Dec 9;93(19):721–6. **(Spa)**

[Endocarditis with Ionescu-Shiley's bioprosthesis. Long-term results] González-Juanatey JR, et al. **Rev Esp Cardiol** 1989 Dec;42(10):638–44 (Eng. Abstr.) **(Spa)**

MORTALITY

Experimental cardiac surgery in the calf. Techniques of anesthesia and operation. Bonchek LI, et al. **Ann Thorac Surg** 1967 Mar;3(3):211–7

Unexpected death as a result of infective endocarditis. Cohle SD, et al. **J Forensic Sci** 1989 Nov;34(6):1374–86

Risk factors for early and late outcome after surgical treatment of native infective endocarditis. Kimose HH, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(2):111–20

PATHOLOGY

Vegetations on endocardial surfaces struck by regurgitant jets: diagnosis by transesophageal echocardiography. Schwinger ME, et al. **Am Heart J** 1990 May;119(5):1212–5

Echocardiographic detection and clinical significance of left atrial vegetations in active infective endocarditis. Kim JH, et al. **Am J Cardiol** 1989 Oct 15;64(14):950–2

Echocardiographic diagnosis of atrioventricular septal perforation caused by an aortic valve vegetation. Trehan N, et al. **J Am Soc Echocardiogr** 1988 Mar–Apr;1(2):150–1

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 14–1990. A 76-year-old man with a prosthetic aortic valve, staphylococcal sepsis, and a recent myocardial infarct. **N Engl J Med** 1990 Apr 5;322(14):988–99

Bacterial endocarditis in a transplanted heart. Khoo DE, et al. **Pathol Res Pract** 1989 Oct;185(4):445–7

Repeated echocardiography: essential in the management of Staphylococcus aureus endocarditis. O'Sullivan JJ, et al. **Postgrad Med J** 1990 Mar;66(773):227–8

[Anatomic lesions in bacterial endocarditis of the aortic valves. Practical implications] Penther P, et al. **Ann Cardiol Angeiol (Paris)** 1989 Dec 30;38(10):627–30 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

A comparison of Q fever endocarditis with native valve endocarditis. Marrie TJ. **Ann N Y Acad Sci** 1990;590:61–7

The relationship between new cardiac conduction defects and extension of valve infection in native valve endocarditis. Weisse AB, et al. **Clin Cardiol** 1990 May; 13(5):337–45

Triphasic waves in endocarditis. Ghanem Q, et al. **Clin Electroencephalogr** 1990 Jan;21(1):37–41

The role of fibronectin binding in the rat model of experimental endocarditis caused by Streptococcus sanguis. Lowrance JH, et al. **J Clin Invest** 1990 Jul;86(1):7–13

Achromobacter Group B replacement valve endocarditis [letter] McKinley KP, et al. **J Infect** 1990 May;20(3):262–3

[Cutaneous microcirculation in infectious endocarditis] Piette JC, et al. **Ann Med Interne (Paris)** 1989;140(5):372–5 (Eng. Abstr.) **(Fre)**

[Changes in the contractility of the myocardium in its various conditions in patients with congenital heart defects after surgery] Selivanenko VT, et al. **Kardiologiia** 1989 Aug; 29(8):57–61 (Eng. Abstr.) **(Rus)**

[Infectious endocarditis caused by Staphylococcus. Study at the Ignacio Chavez National Institute of Cardiology 1977–1987] Barrera-Bustillos M, et al. **Arch Inst Cardiol Mex** 1989 Sep–Oct;59(5):505–10 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Endocarditis prophylaxis and gastrointestinal procedures [editorial] Meyer GW. **Am J Gastroenterol** 1989 Dec; 84(12):1492–3

Antibiotic prophylaxis for gastrointestinal procedures: the case against antibiotics [letter] Steinberg W. **Am J Gastroenterol** 1990 Aug;85(8):1043–4

Does prophylaxis prevent postdental infective endocarditis? A controlled evaluation of protective efficacy. Imperiale TF, et al. **Am J Med** 1990 Feb;88(2):131–6

Antibiotic prophylaxis and regurgitant murmurs [letter; comment] Bayer R. **Ann Intern Med** 1990 Jan 15; 112(2):148–9 Comment on: Ann Intern Med 1989 Sep 15;111(6):466–72.

Chemoprophylactic efficacy against experimental endocarditis caused by beta-lactamase-producing, aminoglycoside-resistant enterococci is associated with prolonged serum inhibitory activity. Bayer AS, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1068–74

Daptomycin (LY146032) for prevention and treatment of experimental aortic valve endocarditis in rabbits. Kennedy S, et al. **Antimicrob Agents Chemother** 1989 Sep; 33(9):1522–5

Review of antibiotic prophylaxis for bacterial endocarditis in relation to radiological procedures. O'Connell PT, et al. **Australas Radiol** 1990 Feb;34(1):75–7

Current prophylaxis for prevention of infective endocarditis. Gould IM. **Br Dent J** 1990 May 19;168(10):409–10

'Antibiotic side effects' [letter; comment] Shaw N. **Br Dent J** 1990 May 5;168(9):349 Comment on: Br Dent J 1990 Apr 7;168(7):277.

Current concepts in prevention of prosthetic valve endocarditis. Bayer AS, et al. **Chest** 1990 May;97(5):1203–7 (38 ref.)

Controversies in the prevention of infective endocarditis related to dental procedures. Fekete T. **Dent Clin North Am** 1990 Jan;34(1):79–90 (40 ref.)

Pretreatment of prosthetic valve sewing-ring with the antibiotic/fibrin sealant compound as a prophylactic tool against prosthetic valve endocarditis. Karck M, et al. **Eur J Cardiothorac Surg** 1990;4(3):142–6

Teicoplanin for prophylaxis of endocarditis after dental bacteraemia. Gould IM. **J Antimicrob Chemother** 1990 Apr; 25(4):501–3 (30 ref.)

Chemoprophylaxis of bacterial endocarditis—a survey of current practice in Zimbabwe. Murenha E, et al. **J Antimicrob Chemother** 1990 Feb;25(2):291–6

Successful prophylaxis of experimental streptococcal endocarditis with single-dose amoxicillin administered after bacterial challenge. Berney P, et al. **J Infect Dis** 1990 Feb; 161(2):281–5

Antibiotic prophylaxis of infective endocarditis. Recommendations from the Endocarditis Working Party of the British Society for Antimicrobial Chemotherapy [see comments] **Lancet** 1990 Jan 13;335(8681):88–9 (4 ref.) Comment in: Lancet 1990 Mar 3;335(8688):544–5.

Avoiding infective endocarditis [letter; comment] **Lancet** 1990 Mar 3;335(8688):544–5 Comment on: Lancet 1990 Jan 13;335(8681):88–9.

Prevention of bacterial endocarditis. **Med Lett Drugs Ther** 1989 Dec 15;31(807):112

More on endocarditis guidelines [letter] Kopp WK. **N Y State Dent J** 1990 Mar;56(3):8

Pathogenesis, management, and prevention of infective endocarditis in the elderly dental patient. Friedlander AH, et al. **Oral Surg Oral Med Oral Pathol** 1990 Feb; 69(2):177–81 (66 ref.)

Dental procedures and endocarditis prophylaxis: experiences from 108 dental practices. Gutschik E, et al. **Scand J Dent Res** 1990 Apr;98(2):144–8

Dental procedures and endocarditis prophylaxis in patients with prosthetic heart valves: results of a questionnaire to 220 patients. Gutschik E, et al. **Scand J Infect Dis** 1989; 21(6):665–8

Pharmacokinetic comparison of two models of endocarditis prophylaxis with amoxycillin. Paulsen O, et al. **Scand J Infect Dis** 1989;21(6):669–73

New trends in antibiotic prophylaxis of infective endocarditis in patients undergoing surgery in the oral cavity. Hall G, et al. **Swed Dent J** 1989;13(5):193–200 (25 ref.)

[Endocarditis prevention following rheumatic fever?] Battegay M, et al. **Dtsch Med Wochenschr** 1989 Dec 1; 114(48):1898 **(Ger)**

RADIONUCLIDE IMAGING

Indium-111 leukocyte localization in infected prosthetic graft. Purnell GL, et al. **Clin Nucl Med** 1990 Aug; 15(8):585–6

SURGERY

Surgical management of left heart endocarditis. Defraigne JO, et al. **Acta Chir Belg** 1989 Sep–Oct;89(5):247–52

Sinusoidal fetal heart rate pattern during cardiopulmonary bypass. Burke AB, et al. **Am J Obstet Gynecol** 1990 Jul; 163(1 Pt 1):17–8

Heart valve operations in patients with active infective endocarditis. David TE, et al. **Ann Thorac Surg** 1990 May; 49(5):701–5; discussion 712–3

Modified Danielson technique for recurrent aortic valve endocarditis. Dreyfus G, et al. **Ann Thorac Surg** 1989 Nov; 48(5):725–6; discussion 726–7

Valve repair in acute endocarditis. Dreyfus G, et al. **Ann Thorac Surg** 1990 May;49(5):706–11; discussion 712–3

Results of homograft aortic valve replacement for active endocarditis. Tuna IC, et al. **Ann Thorac Surg** 1990 Apr; 49(4):619–24

Aortic homograft for aortic valve endocarditis [letter; comment] Wood MK. **Ann Thorac Surg** 1990 Feb;49(2):342 Comment on: Ann Thorac Surg 1989 Sep;48(3):365–9; discussion 369–70.

Cardiac surgery in human immunodeficiency virus (HIV) carriers. Frater RW, et al. **Eur J Cardiothorac Surg** 1989; 3(2):146–50; discussion 150–1

Operative treatment of infective endocarditis in children. Horváth P, et al. **Eur J Cardiothorac Surg** 1989;3(1):26–32

Right-sided infective endocarditis: valvuloplasty, valvectomy or replacement. Yee ES, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):744–8

Heart transplantation for intractable prosthetic valve endocarditis. DiSesa VJ, et al. **J Heart Transplant** 1990 Mar–Apr;9(2):142–3

Aortic root replacement for complicated bacterial endocarditis in an infant. Perelman MJ, et al. **J Pediatr Surg** 1989 Nov;24(11):1121–3

[Surgical treatment of heart valve defects in infectious endocarditis] Koudelková E, et al. **Cas Lek Cesk** 1990 Mar 16;129(11):325–8 (Eng. Abstr.) **(Cze)**

[Heart valve replacement in active infectious endocarditis] Meier B, et al. **Schweiz Med Wochenschr** 1989 Aug 19; 119(33):1106–12 (Eng. Abstr.) **(Ger)**

[Infectious endocarditis. Role of surgical therapy] Glieca F, et al. **Minerva Chir** 1990 Jan;45(1–2):19–27 (20 ref.) (Eng. Abstr.) **(Ita)**

[Surgical treatment of infective endocarditis: report of two cases] Hata H, et al. **J Cardiol Suppl** 1989;22:31 **(Jpn)**

[Clinical study of patients undergoing surgical treatment for infective endocarditis] Murata H, et al. **J Cardiol Suppl** 1989;22:34 **(Jpn)**

[Surgical treatment of aortic regurgitation associated with

infective endocarditis] Nishiwaki M, et al. **J Cardiol Suppl** 1989;22:32–3 **(Jpn)**

[Diagnosis and treatments of prosthetic valve endocarditis] Otaki M, et al. **J Cardiol Suppl** 1989;22:3–4 **(Jpn)**

[Successful surgical treatment of infective endocarditis complicated with DIC and intracerebral hemorrhage] Hamada Y, et al. **Kyobu Geka** 1989 Sep;42(10):869–72 (Eng. Abstr.) **(Jpn)**

[A case of membranous septal aneurysm associated with infective endocarditis] Miyata Y, et al. **Kyobu Geka** 1989 Aug;42(9):786–9 (Eng. Abstr.) **(Jpn)**

[Successful mitral valve replacement for infective endocarditis in pregnancy] Souma T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Jun;38(6):1035–8 (11 ref.) (Eng. Abstr.) **(Jpn)**

[A case report of infective endocarditis with acute pulmonary edema and renal dysfunction treated by emergent mitral valve replacement and postoperative extracorporeal ultrafiltration] Sueda T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun;37(6):1217–22 (Eng. Abstr.) **(Jpn)**

[Surgical aspect of active infective endocarditis] Tominaga R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Jun; 37(6):1114–20 (Eng. Abstr.) **(Jpn)**

[A case report of early valve replacement surgery in infective endocarditis with mycotic cerebral aneurysm] Uchino T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Sep; 37(9):2025–8 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of high-risk valvar endocarditis] Barbosa Filho J, et al. **Arq Bras Cardiol** 1989 Oct;53(4):211–5 (Eng. Abstr.) **(Por)**

[Surgical approach in bacterial endocarditis of the tricuspid valve in children. Report of 2 cases] Ribeiro PJ, et al. **Arq Bras Cardiol** 1989 Mar;52(3):153–7 (Eng. Abstr.) **(Por)**

[Surgical treatment of high-risk valvular endocarditis] Barbosa Filho J, et al. **Rev Port Cardiol** 1989 Sep;8(9):601–5 (Eng. Abstr.) **(Por)**

[Surgical treatment of endocarditis following heart valve prosthesis] Tsukerman GI, et al. **Grud Serdechnososudistaia Khir** 1990;(2):14–9 (Eng. Abstr.) **(Rus)**

[Preventive use of immunostimulants in patients with infectious endocarditis] Kostiuchenko AL, et al. **Vestn Khir** 1989 Jul;143(7):39–43 (Eng. Abstr.) **(Rus)**

[Use of the lysosomal-cationic test for the prognosis of postoperative suppurative complications in patients with infectious endocarditis] Kucherenko AD, et al. **Vestn Khir** 1989 Nov;143(11):101–3 **(Rus)**

[Surgical treatment of septic endocarditis in drug addicts] Shevchenko IuL, et al. **Vestn Khir** 1990 Mar;144(3):18–20 (Eng. Abstr.) **(Rus)**

[Infective endocarditis. Medicosurgical experience in a series of 137 patients] Mesa JM, et al. **Rev Esp Cardiol** 1990 Mar; 43(3):142–52 (Eng. Abstr.) **(Spa)**

[Surgical treatment of active infective endocarditis] Morán S, et al. **Rev Med Chil** 1988 Sep;116(9):882–6 (Eng. Abstr.) **(Spa)**

THERAPY

[Treatment of prosthetic valve endocarditis—analysis of eleven cases] Katayama Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Oct;37(10):2111–6 (Eng. Abstr.) **(Jpn)**

[A case of the effective use of plasmapheresis and extracorporeal immunomodulation in treating primary protracted bacterial endocarditis] Semenovich NI, et al. **Ter Arkh** 1989;61(9):150–1 **(Rus)**

[Endocarditis of a natural valve caused by coagulase-negative staphylococci] Aguado García JM, et al. **Med Clin (Barc)** 1989 Jun 17;93(3):93–6 (Eng. Abstr.) **(Spa)**

VETERINARY

Something old, something new: thoracic acoustic percussion in cattle. Tyler JW, et al. **J Am Vet Med Assoc** 1990 Jul 1;197(1):52–7

A case of bovine valvular endocarditis caused by Corynebacterium pseudodiphtheriticum. Cabana EM, et al. **Vet Rec** 1990 Jan 13;126(2):41–2

ENDOCARDITIS LENTA see **ENDOCARDITIS, SUBACUTE BACTERIAL**

ENDOCARDITIS, SUBACUTE BACTERIAL

COMPLICATIONS

Hypopituitarism and empty sella due to endocarditis. McAlpine JK, et al. **J R Soc Med** 1989 Dec;82(12):769–70

Renal arteriovenous fistula in the setting of subacute bacterial endocarditis. Stephenson TF, et al. **N Y State J Med** 1989 Sep;89(9):530–2

[A case of association of bacterial endocarditis with diffuse toxic goiter] Gorbanev EA, et al. **Klin Med (Mosk)** 1990 Apr;68(4):118–9 **(Rus)**

DIAGNOSIS

Use of transesophageal echocardiography for improving detection of valvular vegetations in subacute bacterial endocarditis. Klodas E, et al. **J Am Soc Echocardiogr** 1989 Nov-Dec;2(6):386–9

[Diagnosis of primary subacute infectious endocarditis in ambulatory-polyclinical conditions] Bart BIa. **Kardiologiia** 1989 Oct;29(10):123–5 **(Rus)**

ETIOLOGY

Ventriculo-atrial shunt causing tricuspid endocarditis: its percutaneous removal. Bellamy CM, et al. **Int J Cardiol** 1990 Aug;28(2):260–2

THERAPY

Gonococcal endocarditis: report of a case and review of the literature. Owens JE, et al. **J S C Med Assoc** 1990 Feb; 86(2):93–6

ENDOCARDIUM

A transmural approach for endocardial ventricular pacing. McCallister BD Jr, et al. **Am J Cardiol** 1990 Jan 15; 65(3):263–4

ANALYSIS

Procoagulant activity of endocardial vegetations and blood monocytes in rabbits with Streptococcus sanguis endocarditis. Buiting AG, et al. **Thromb Haemost** 1989 Nov 24;62(3):1029–33

ANATOMY & HISTOLOGY

Analysis of capillary geometry in rat subepicardium and subendocardium. Poole DC, et al. **Am J Physiol** 1990 Jul; 259(1 Pt 2):H204–10

CYTOLOGY

Endocardial cell arrangement: role of hemodynamics. Icardo JM. **Anat Rec** 1989 Oct;225(2):150–5

Distribution of vitronectin in the embryonic chick heart during endocardial cell migration. Sumida H, et al. **Arch Histol Cytol** 1990 Mar;53(1):81–8

Electrophysiology and ultrastructure of canine subendocardial Purkinje cells isolated from control and 24-hour infarcted hearts. Boyden PA, et al. **Circ Res** 1989 Oct;65(4):955–70

DRUG EFFECTS

Endocardial injury and the pathogenesis of mural thrombosis in the left ventricle. Carter G, et al. **Cardiovasc Res** 1989 Jun;23(6):478–83

ENZYMOLOGY

Differences in myosin isoform expression in the subepicardial and subendocardial myocardium during cardiac hypertrophy in the rat. Bugaisky LB, et al. **Circ Res** 1990 Apr;66(4):1127–32

IMMUNOLOGY

Endocardial infiltrates in human heart transplants: a serial biopsy analysis comparing four immunosuppression protocols. Forbes RD, et al. **Hum Pathol** 1990 Aug; 21(8):850–5

In vitro studies of endomyocardial biopsies from heart transplant recipients on RATG and OKT3 immunoprophylaxis protocols. Kaufman C, et al. **Transplantation** 1989 Oct;48(4):621–5

METABOLISM

Epicardial and endocardial localized 31P magnetic resonance spectroscopy: evidence for metabolic heterogeneity during regional ischemia. Gober JR, et al. **Magn Reson Med** 1990 Feb;13(2):204–15

PATHOLOGY

Right heart metastatic endocardial implants: echocardiographic and pathologic correlation. Rey M, et al. **Am Heart J** 1990 May;119(5):1217–20

Intramural coronary angiitis of periarteritis nodosa proved by endomyocardial biopsy. Sugihara N, et al. **Am Heart J** 1990 Jun;119(6):1414–6

Ergotamine, methysergide, and carcinoid-induced endocardial lesions [letter; comment] Bates HR. **Arch Pathol Lab Med** 1990 Jun;114(6):560 Comment on: Arch Pathol Lab Med 1990 Jan;114(1):62–4.

Three cases of fatal cardiac tamponade following ventricular endocardial biopsy. Craven CM, et al. **Arch Pathol Lab Med** 1990 Aug;114(8):836–9

Immunohistochemical staining of lymphocytes for the reliable diagnosis of myocarditis in endomyocardial biopsies. Milei J, et al. **Cardiology** 1990;77(2):77–85

Natural history of left ventricular size and function after acute myocardial infarction. Assessment and prediction by echocardiographic endocardial surface mapping. Picard MH, et al. **Circulation** 1990 Aug;82(2):484–94

Eosinophils from hypereosinophilic patients damage endocardium of isolated feline heart muscle preparations. Shah AM, et al. **Circulation** 1990 Mar;81(3):1081–8

Myocardial and endocardial involvement in tuberculous constrictive pericarditis: difficulty in biopsy distinction from endomyocardial fibrosis as a cause of restrictive heart disease. Dave T, et al. **Int J Cardiol** 1990 Aug;28(2):245–51

A clinical role for right ventricular endomyocardial biopsy. Glazier JJ, et al. **Ir Med J** 1989 Dec;82(4):153–5

The safety and utility of endomyocardial biopsy in infants, children and adolescents [comment] Billingham ME. **J Am Coll Cardiol** 1990 Feb;15(2):443–5 Comment on: J Am Coll Cardiol 1990 Feb;15(2):436–42.

"Borderline" myocarditis: an indication for repeat endomyocardial biopsy [see comments] Dec GW, et al. **J Am Coll Cardiol** 1990 Feb;15(2):283–9 Comment in: J Am Coll Cardiol 1990 Feb;15(2):290–1.

Safety and utility of endomyocardial biopsy in infants, children and adolescents: a review of 66 procedures in 53 patients [see comments] Yoshizato T, et al. **J Am Coll Cardiol** 1990 Feb;15(2):436–42 (50 ref.) Comment in: J Am Coll Cardiol 1990 Feb;15(2):443–5.

Dilemma of variety of histopathologic grading systems for acute cardiac allograft rejection by endomyocardial biopsy. Billingham ME. **J Heart Transplant** 1990 May-Jun;9(3 Pt 2):272–6

Histologic grading of cardiac allograft rejection: a quantitative approach. McAllister HA Jr. **J Heart Transplant** 1990 May-Jun;9(3 Pt 2):277–82

Endocardial damage induced by lactate, lowered pH and lactic acid in non-ischemic beating hearts. Carter G, et al. **Pathology** 1989 Apr;21(2):125–30

Endomyocardial biopsy diagnosis of acute rejection in cardiac allografts. Billingham ME. **Prog Cardiovasc Dis** 1990 Jul-Aug;33(1):11–8 (20 ref.)

[Basic research on endomyocardial biopsy] Li ZM, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Dec; 17(6):363–4, 383 (Eng. Abstr.) **(Chi)**

[Endomyocardial biopsy and acute rejection in heart transplantation] Urbanová D, et al. **Cesk Patol** 1990 May; 26(2):102–8 (Eng. Abstr.) **(Cze)**

[Value of endomyocardial biopsy in congestive heart failure in diabetics without coronary disease] Valensi P, et al. **Ann Med Interne (Paris)** 1989;140(6):473–6 (Eng. Abstr.) **(Fre)**

[Endomyocardial biopsy: clinical, diagnostic and morphological aspects] Bardosi A. **Dtsch Med Wochenschr** 1989 Oct 27;114(43):1665–72 (63 ref.) **(Ger)**

[Evaluating the graft rejection reaction in endomyocardial biopsy] Schneider J. **Ther Umsch** 1990 Feb;47(2):133–7 (Eng. Abstr.) **(Ger)**

[Morphologic findings in dilated cardiomyopathy and their relation to hemodynamics and catecholamine concentrations in the plasma and myocardium] Schofer J, et al. **Z Kardiol** 1990 Apr;79(4):302–7 (Eng. Abstr.) **(Ger)**

[Biopsy monitoring of the transplant patient] Angelini A, et al. **G Ital Cardiol** 1989 Dec;19(12):1144–9 **(Ita)**

[Clinical investigation on childhood HCM; long-term follow-up study with special reference to electrophysiology, histopathology by endomyocardial biopsy and ambulatory and exercise electrocardiography] Yonesaka S, et al. **Kokyu To Junkan** 1990 Jul;38(7):677–82 (Eng. Abstr.) **(Jpn)**

[Value of endomyocardial biopsy in the diagnosis of cardiomyopathies] Rozenberg VD. **Klin Med (Mosk)** 1989 Aug;67(8):21–6 (52 ref.) **(Rus)**

[Usefulness of endomyocardial biopsy in myocarditis and dilated cardiomyopathy] Almazán A, et al. **Arch Inst Cardiol Mex** 1989 Nov-Dec;59(6):573–7 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Endocardium modulates myocardial inotropic response to 5-hydroxytryptamine. Shah AM, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1790–7

Differences in the electrophysiological response of canine ventricular subendocardium and subepicardium to acetylcholine and isoproterenol. A direct effect of acetylcholine in ventricular myocardium. Litovsky SH, et al. **Circ Res** 1990 Sep;67(3):615–27

Does endocardial endothelium mediate positive inotropic response to angiotensin I and angiotensin II? Meulemans AL, et al. **Circ Res** 1990 Jun;66(6):1591–601

Rate dependence of action potential duration and refractoriness in canine ventricular endocardium differs from that of epicardium: role of the transient outward current. Litovsky SH, et al. **J Am Coll Cardiol** 1989 Oct; 14(4):1053–66

PHYSIOPATHOLOGY

Atrial endocardial mapping in the rare form of atrial flutter. Cosio FG, et al. **Am J Cardiol** 1990 Sep 15;66(7):715–20

Relation between ventricular late endocardial activity during intraoperative endocardial mapping and low-amplitude signals within the terminal QRS complex on the signal-averaged surface electrocardiogram. Schwarzmaier HJ, et al. **Am J Cardiol** 1990 Aug 1;66(3):308–14

Configuration of endocardial and intramural extrasystoles in the dog. Zakopoulos KS, et al. **Am J Physiol** 1967 Jun; 212(6):1489–96

Subendomyocardial exhaustion of blood flow reserve and increased fibrosis in conscious dogs with heart failure. Hittinger L, et al. **Circ Res** 1989 Oct;65(4):971–80

Exercise-induced subendocardial dysfunction in dogs with left ventricular hypertrophy. Hittinger L, et al.

Circ Res 1990 Feb;66(2):329–43

Electrophysiological properties and responses to simulated ischemia in cat ventricular myocytes of endocardial and epicardial origin. Kimura S, et al. Circ Res 1990 Feb; 66(2):469–77

Abnormal subendocardial blood flow in pressure overload hypertrophy is associated with pacing-induced subendocardial dysfunction. Nakano K, et al. Circ Res 1989 Dec;65(6):1555–64

RADIATION EFFECTS

Effects of multipolar electrode radiofrequency energy delivery on ventricular endocardium. Oeff M, et al. Am Heart J 1990 Mar;119(3 Pt 1):599–607

Control of radiofrequency lesion size by power regulation. Wittkampf FH, et al. Circulation 1989 Oct;80(4):962–8

SURGERY

Treatment of rhythm disorders by endocardial fulguration. Fontaine G, et al. Am J Cardiol 1989 Dec 5;64(20):83J–86J

Operative risks of the implantable defibrillator versus endocardial resection. Kron IL, et al. Ann Surg 1990 May; 211(5):600–3; discussion 603–4

Extensive endocardial resection for recurrent ventricular tachyarrhythmias. Ratnatunga CP, et al. Eur J Cardiothorac Surg 1990;4(7):379–82; discussion 382–3

ULTRASTRUCTURE

Endocardial surface and atrial morphological changes during development and aging. Gilloteaux J, et al. Am J Anat 1989 Oct;186(2):161–72

Capillary and myofiber ultrastructure in endomyocardial biopsies from cyclosporine-treated heart transplant patients. Yarom R, et al. J Heart Transplant 1990 May–Jun; 9(3 Pt 1):187–96

ENDOCAVITARY FULGURATION see ELECTROCOAGULATION

ENDOCRINE DISEASES

Program of plenary sessions and advance abstracts of short communications. 34. Symposium Deutsche Gesellschaft für Endokrinologie. Hannover, March 14–17, 1990. Acta Endocrinol (Copenh) 1990;122 Suppl 1:1–144

Neuroendocrinological aspects of neurosurgery. Proceedings of the Third Advanced Seminar in Neurosurgical Research. Venice, April 30–May 1, 1987. Acta Neurochir Suppl (Wien) 1990;47:1–128

Tumor markers in endocrine malignancies. DeLellis RA. Clin Lab Med 1990 Mar;10(1):39–57 (58 ref.)

Metabolic and endocrine aspects of rheumatic disease. Clin Rheum Dis 1986 Dec;12(3):559–805

Endocrine and metabolic emergencies. Emerg Med Clin North Am 1989 Nov;7(4):749–961

Issue dedicated to Professor Günter Dörner on the occasion of his 60th birthday. Exp Clin Endocrinol 1989 Sep; 94(1–2):1–225

Third joint meeting of the European Society for Pediatric Endocrinology (ESPE) and Lawson Wilkins Pediatric Endocrinology Society (LWPES). Jerusalem, October 29–November 3, 1989. Abstracts. Horm Res 1989;31 Suppl 1:1–84

29th annual meeting of the European Society for Paediatric Endocrinology (ESPE). Vienna, September 2–5, 1990. Abstracts. Horm Res 1990;33 Suppl 3:1–68

9th joint meeting of British Endocrine Societies. 19–22 March 1990, Glasgow. Abstracts. J Endocrinol 1990 Mar;124 Suppl:274 abstracts

180th meeting of the Society for Endocrinology. 15–17 November 1989. Abstracts. J Endocrinol 1989 Nov;123 Suppl:169 abstracts

2nd International Congress of Neuroendocrinology. Bordeaux, France, June 24–29, 1990. Abstracts. Neuroendocrinology 1990;52 Suppl 1:1–178

Endocrine tumors and miscellaneous cancers in pregnancy. Ringenberg QS, et al. Semin Oncol 1989 Oct;16(5):445–55 (79 ref.)

[21st French Congress of Endocrinology. Strasbourg, 12–14 October 1989. Abstracts] Ann Endocrinol (Paris) 1989; 50(4):250–373 (Fre)

[14th meeting of the Working Group on Pediatric Endocrinology with international participation. Eisenach, 20–22 November 1989. Proceedings] Padiatr Grenzgeb 1990;29(2):75–196 (Ger)

[63d meeting of the Japan Endocrine Society. Osaka, 17–19 May 1990. Abstracts] Nippon Naibunpi Gakkai Zasshi 1990 Apr 20;66(4):219–517 (Jpn)

[62d fall meeting of the Japan Endocrine Society. 20–21 October 1989, Sapporo. Abstracts] Nippon Naibunpi Gakkai Zasshi 1989 Sep 20;65(9):829–999 (Jpn)

[New basic and clinical aspects of endocrine and metabolic diseases] Matsukura S. Rinsho Byori 1989 Aug;37(8):855–6 (Eng. Abstr.) (Jpn)

[Development of research on pediatric endocrinology abroad (review of periodical publications)] Maksimova VP. Pediatriia 1989;(11):101–4 (26 ref.) (Rus)

[12th meeting of the Pediatric Endocrinology Section of the Spanish Association of Pediatrics. Córdoba, 3–5 May 1990. Abstracts] An Esp Pediatr 1990 May;32 Suppl 40:1–32 (Spa)

[10th annual meeting of the Section on Pediatric Endocrinology of the Spanish Association of Pediatrics. Pamplona, 21–22 October 1988. Proceedings] An Esp Pediatr Supl 1988 Oct;35:1–52 (Spa)

BLOOD

Serum free fatty acids and other lipids during glucose loading in endocrinopathies. Felt V. Am J Med Sci 1967 Aug; 254(2):161–72

Pro-gamma-MSH levels in various disorders of pituitary-adrenal axis. Boscaro M, et al. J Endocrinol Invest 1990 Jan;13(1):29–33

Calcitonin gene-related peptide in patients with endocrine tumors. Takami H, et al. J Surg Oncol 1990 Jan;43(1):28–32

[Secondary hormonal forms of hypertension] Wedler B, et al. Z Arztl Fortbild (Jena) 1990;84(10):497–501 (23 ref.) (Ger)

CHEMICALLY INDUCED

Assessment in rats of the gonadotoxic and hepatorenal toxic potential of dibromochloropropane (DBCP) in drinking water. Heindel JJ, et al. Fundam Appl Toxicol 1989 Nov; 13(4):804–15

Endocrine pathology of estrogens: species differences. Hart JE. Pharmacol Ther 1990;47(2):203–18 (138 ref.)

EGYT-2509 a novel neuroleptic agent without extrapyramidal and endocrine side effects. Gacsályi I, et al. Pol J Pharmacol Pharm 1988 Nov–Dec;40(6):613–9

COMPLICATIONS

Endocrine complications of acquired immunodeficiency syndrome [letter; comment] Glass AR. Arch Intern Med 1990 Jan;150(1):221 Comment on: Arch Intern Med 1989 Feb;149(2):330–3.

Pulmonary manifestations of endocrine and metabolic disorders. Brüssel T, et al. Clin Chest Med 1989 Dec; 10(4):645–53 (54 ref.)

The growing spectrum of HIV-related endocrine abnormalities [editorial; comment] Dluhy RG. J Clin Endocrinol Metab 1990 Mar;70(3):563–5 Comment on: J Clin Endocrinol Metab 1990 Mar;70(3):566–71. Comment on: J Clin Endocrinol Metab 1990 Mar;70(3):572–7. Comment on: J Clin Endocrinol Metab 1990 Mar;70(3):578–81.

Evidence of endocrine involvement early in the course of human immunodeficiency virus infection [see comments] Merenich JA, et al. J Clin Endocrinol Metab 1990 Mar; 70(3):566–71 Comment in: J Clin Endocrinol Metab 1990 Mar;70(3):563–5.

Long-term observation of endocrine ophthalmopathy and retrospective appraisal of therapeutic measures. Kahaly G, et al. J Endocrinol Invest 1990 Apr;13(4):287–92

Candidiasis-endocrinopathy syndrome with progressive myopathy. Evans RA, et al. Q J Med 1989 Feb; 70(262):139–44

The endocrinopathy of POEMS syndrome. Stewart PM, et al. Scott Med J 1989 Oct;34(5):520–2

POEMS syndrome: ultrastructural observations on the sural nerve. Teixeira F, et al. Ultrastruct Pathol 1990 Jan–Feb; 14(1):31–40

Alopecia universalis in autoimmune polyglandular syndrome type I [letter; comment] Garty BZ, et al. West J Med 1990 Jan;152(1):76–7 Comment on: West J Med 1988 Sep;149(3):338–41.

[Cutaneous lesions in POEMS syndrome. Apropos of 3 case reports and a review of the literature] Dereure O, et al. Ann Dermatol Venereol 1990;117(4):283–90 (53 ref.) (Eng. Abstr.) (Fre)

[Endocrine-metabolic reaction to anesthesia and surgery in the diabetic] Lugrin D, et al. Ann Fr Anesth Reanim 1989; 8 Suppl:R250 (Fre)

[Endocrine abnormalities in HIV infections] Verges B, et al. Presse Med 1990 Jul 7–14;19(27):1267–70 (Eng. Abstr.) (Fre)

[The effect of cardiovascular, endocrine and metabolic diseases on hearing] Brusis T. Laryngorhinootologie 1989 Oct;68(10):557–60 (20 ref.) (Eng. Abstr.) (Ger)

[Squint operations for impaired motility due to endocrine ophthalmopathy] Aust W, et al. Ophthalmologica 1990; 200(1):10–5 (Eng. Abstr.) (Ger)

[Endocrine diseases and consciousness disorders in the aged] Nagataki S, et al. Nippon Naika Gakkai Zasshi 1990 Apr 10;79(4):463–7 (Jpn)

[Keratoconus. II. Coexisting diseases and theories on its etiology and pathogenesis] Iwaszkiewicz E. Klin Oczna 1989 Jul–Sep;91(7–9):210–1 (Eng. Abstr.) (Pol)

DIAGNOSIS

Molecular probes and endocrine diseases. Lloyd RV. Am J Surg Pathol 1990;14 Suppl 1:34–44 (82 ref.)

Screening for the multiple endocrine neoplasia syndrome type I. A study of 11 kindreds in The Netherlands. Vasen HF, et al. Arch Intern Med 1989 Dec;149(12):271[illegible]-22

Magnetic resonance imaging of pituitary stalk hypoplasia. A discrete midline anomaly associated with endocrine abnormalities in septo-optic dysplasia. Kaufman LM, et al. Arch Ophthalmol 1989 Oct;107(10):1485–9

Imaging endocrine disorders. Baillieres Clin Endocrinol Metab 1989 May;3(1):1–228

Imaging paediatric endocrine disorders. Cooke KM, et al. Baillieres Clin Endocrinol Metab 1989 May;3(1):191–224 (52 ref.)

POEMS syndrome: a rarely diagnosed multisystem disorder. Weinstein JM, et al. Br J Hosp Med 1990 May;43(5):382–3

Diagnostic approach to androgen disorders in women: acne, hirsutism, and alopecia. Redmond GP, et al. Cleve Clin J Med 1990 Jul–Aug;57(5):423–7 (21 ref.)

Immunologic disorders of the endocrine system. Baker JR Jr. J Allergy Clin Immunol 1989 Dec;84(6 Pt 2):1088–92

Endocrine evaluation of adults with mild hypospadias. Gearhart JP, et al. J Urol 1990 Aug;144(2 Pt 1):274–7

[Endocrine diseases in pregnancy] Göretzlehner G, et al. Z Arztl Fortbild (Jena) 1990;84(4):135–41 (48 ref.) (Ger)

[Crow-Fukase syndrome (POEMS syndrome). The first Italian presentation of a case and review of the literature] Carcaterra A, et al. G Ital Dermatol Venereol 1990 Mar; 125(3):97–103 (33 ref.) (Eng. Abstr.) (Ita)

[2 cases of autoimmune polyendocrinopathies] Odintsova ON, et al. Probl Endokrinol (Mosk) 1989 Nov–Dec; 35(6):44–5 (Rus)

[The diagnosis of endocrine diseases and metabolic disorders during the performance of an expert military medical evaluation of draftees and servicemen] Zhukov SA, et al. Voen Med Zh 1989 Nov;(11):33–6 (Rus)

DRUG THERAPY

Endocrine tumors. van der Hoeven JJ, et al. Cancer Chemother Biol Response Modif 1988;10:265–70 (22 ref.)

Treatment of androgenic disorders in women: acne, hirsutism, and alopecia. Redmond GP, et al. Cleve Clin J Med 1990 Jul–Aug;57(5):428–32 (18 ref.)

[Progress in endocrinology] Hartwig W. Pol Arch Med Wewn 1987 Apr;77(4):180–5 (0 ref.) (Pol)

EPIDEMIOLOGY

Clinical variation of autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy (APECED) in a series of 68 patients. Ahonen P, et al. N Engl J Med 1990 Jun 28;322(26):1829–36

[Endocrine diseases at the National Hospital of Niamey (Niger). Apropos of 195 cases] Cenac A, et al. Med Trop (Mars) 1989 Apr–Jun;49(2):197–9 (Eng. Abstr.) (Fre)

[The incidence of conjugal sterility of endocrine origin] Zbranca E, et al. Rev Med Chir Soc Med Nat Iasi 1989 Jan–Mar;93(1):73–6 (Eng. Abstr.) (Fre)

ETHNOLOGY

The POEMS syndrome among Chinese: association with Castleman's disease and some immunological abnormalities. Thajeb P, et al. Acta Neurol Scand 1989 Dec;80(6):492–500

ETIOLOGY

Endocrine abnormalities in patients with endstage renal failure. Kokot F, et al. Adv Exp Med Biol 1989;260:61–7 (14 ref.)

Endocrine consequences of treatment of malignant disease. Shalet SM. Arch Dis Child 1989 Nov;64(11):1635–41 (29 ref.)

Endocrine aspects of malignancy. Baillieres Clin Endocrinol Metab 1990 Mar;4(1):1–194

Endocrine abnormalities in patients treated by continuous ambulatory peritoneal dialysis. Maher JF. Blood Purif 1990; 8(2):69–75 (39 ref.)

Endocrine disorders following treatment of childhood brain tumours. Livesey EA, et al. Br J Cancer 1990 Apr; 61(4):622–5

Influence of allogeneic bone marrow transplantation on the endocrine system in children. Dopfer R, et al. Folia Haematol (Leipz) 1989;116(3–4):541–5

Endocrine dysfunction after total body irradiation and bone marrow transplantation. Feyer P, et al. Folia Haematol (Leipz) 1989;116(3–4):547–52

Protein-calorie deficiency and disorders of the endocrine glands. Heard CR, et al. Hormones 1971;2(1):40–64 (55 ref.)

Mechanisms of endocrine dysfunction in patients with testicular cancer. Morrish DW, et al. J Natl Cancer Inst 1990 Mar 7;82(5):412–8

Endocrine and metabolic abnormalities following kidney transplantation. Hörl WH, et al. Klin Wochenschr 1989 Sep 1;67(17):907–18 (148 ref.)

Psychoneuroendocrine stress-induced syndromes. Coculescu M. Physiologie 1989 Jul–Sep;26(3):233–50 (63 ref.)

[Primitive cutaneous neuroendocrine carcinoma. A review of recent literature] Bayrou O, et al. Ann Med Interne (Paris) 1989;140(7):631–6 (83 ref.) (Fre)

[Sex hormones and the skin] Boukhris R. J Gynecol Obstet Biol Reprod (Paris) 1989;18(7):831–42 (70 ref.) (Eng. Abstr.) (Fre)

[Newborn infants of mothers with endocrinopathies] Ponte C. Pediatrie 1989;44(8):603–11 (42 ref.) (Eng. Abstr.) (Fre)

[The hormonal and mediator imprinting of neuroendocrine pathology] Reznikov AG. Patol Fiziol Eksp Ter 1989 Nov–Dec;(6):3–8 (27 ref.) (Rus)

GENETICS

Molecular biology of endocrinology.

Bailliere's Clin Endocrinol Metab 1988 Nov;2(4):797–1090

Genetic predisposition to the Crow–Fukase syndrome. **Sanada I, et al. Clin Immunol Immunopathol** 1990 Sep; 56(3):420–2

Clinical review 5: Recombinant DNA strategies for determining the molecular basis of endocrine disorders. **Jameson JL, et al. J Clin Endocrinol Metab** 1990 Feb; 70(2):301–7 (7 ref.)

Two G protein oncogenes in human endocrine tumors. **Lyons J, et al. Science** 1990 Aug 10;249(4969):655–9

[Recent aspects of the pathogenesis of endocrine autoimmune diseases in the human: what role does expression of class II HLA molecules in the endocrine target cell play?] **Deuss U, et al. Klin Wochenschr** 1989 Nov 17;67(22):1117–25 (61 ref.) (Eng. Abstr.) **(Ger)**

[Recent progress of the molecular biology of human endocrinological disorders] **Goto K, et al. Nippon Rinsho** 1989 Oct;47(10):2372–81 (25 ref.) **(Jpn)**

[Clinical molecular–genetics for endocrine and metabolic diseases] **Niikawa N. Rinsho Byori** 1989 Aug;37(8):847–54 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Genetic endocrine disorders] **Matsuda I. Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):852–6 **(Jpn)**

IMMUNOLOGY

Receptor–blocking antibodies in autoimmune endocrine disease. **Lancet** 1990 Mar 31;335(8692):762–3 (22 ref.)

[Autoimmune polyglandular syndrome: report of two cases] **Su GY, et al. Acta Paediatr Sin** 1988 Sep–Oct;29(5):363–7 (Eng. Abstr.) **(Chi)**

[The HLA system class II. Its implication in auto–immune endocrine diseases] **Saï P, et al. Ann Endocrinol (Paris)** 1989; 50(3):237–45 **(Fre)**

METABOLISM

Detection of chromogranins A and B in endocrine tissues with radioactive and biotinylated oligonucleotide probes. **Lloyd RV, et al. Am J Surg Pathol** 1990 Jan;14(1):35–43

Expression of intermediate filaments in neuroendocrine tumors. **Kimura N, et al. Arch Pathol Lab Med** 1990 May; 114(5):506–10

Chronic stimulation of basal prolactin (PRL) secretion by growth hormone releasing hormone (GHRH) in children with GH neurosecretory dysfunction. **Fragoso J, et al. Horm Metab Res** 1990 Jan;22(1):53–4

[Isotope, biochemical and roentgenological studies in the diagnosis and evaluation of the treatment of osteoporosis of endocrine etiology] **Phan Sy An. Endokrynol Pol** 1988; 39 Suppl 6:1–53 (Eng. Abstr.) **(Pol)**

PATHOLOGY

Development of neuroendocrine tumors in the gastrointestinal tract of transgenic mice. Heterogeneity of hormone expression. **Rindi G, et al. Am J Pathol** 1990 Jun; 136(6):1349–63

Reevaluation of pulmonary neoplasms resected as small cell carcinomas. Significance of distinguishing between well–differentiated and small cell neuroendocrine carcinomas. **Warren WH, et al. Cancer** 1990 Feb 15; 65(4):1003–10

IGF–II–like immunoreactivity in human tissues, neuroendocrine tumors, and PC12 cells. **Suzuki T, et al. Diabetes Res Clin Pract** 1989;7 Suppl 1:S21–7

The value of tumor markers in a mixed tumor, mucinous and neuroendocrine carcinoma of the ovary. **Ngan HY, et al. Gynecol Oncol** 1989 Nov;35(2):272–4

PHYSIOPATHOLOGY

A clinical update on hypothalamic–pituitary control. **Page MD, et al. Acta Neurochir Suppl (Wien)** 1990;47:48–57 (56 ref.)

Optic disk swelling with peripheral neuropathy, organomegaly, endocrinopathy, monoclonal gammopathy, and skin changes (POEMS syndrome). **Bolling JP, et al. Am J Ophthalmol** 1990 May 15;109(5):503–10

Unusual motility impairment in endocrine orbitopathy. **Mühlendyck H. Dev Ophthalmol** 1989;20:13–27

Validity of animal models in endocrine pathology. **Flack JD, et al. Trends Pharmacol Sci** 1989 Aug;10(8):301–3 (4 ref.)

RADIOGRAPHY

POEMS syndrome: a rare variety of plasma cell dyscrasia. **Aggarwal S, et al. AJR Am J Roentgenol** 1990 Aug; 155(2):339–41 (8 ref.)

RADIONUCLIDE IMAGING

Bone scanning in metabolic and endocrine bone disease. **Clarke SE, et al. Endocrinol Metab Clin North Am** 1989 Dec;18(4):977–93 (61 ref.)

SURGERY

Abstracts of papers presented at the ninth meeting of the British Association of Endocrine Surgeons. Lille, France, 26 May 1989. **Br J Surg** 1989 Oct;76(10):1094–8

Surgical treatment of endocrine tumors of the pancreas. **Partensky C. Horm Res** 1989;32(1–3):80–3 (15 ref.)

[Surgery of the endocrine glands: myth or reality?. Status of 2 years of activity] **Meurisse M, et al. Rev Med Liege** 1990 Jun;45(6):286–95 (42 ref.) **(Fre)**

[Endocrine surgery in pregnancy] **Simon D, et al. Gynakologe** 1990 Apr;23(2):104–7 (46 ref.) **(Ger)**

[Transplantation of the hypothalamus in disorders of neuroendocrine regulation (theoretical and applied aspects)] **Ugriumov MV. Usp Fiziol Nauk** 1989 Oct–Dec; 20(4):110–22 (44 ref.) **(Rus)**

THERAPY

Modifications of endocrine–metabolic abnormalities of uremia by continuous ambulatory peritoneal dialysis. **Maher JF. Am J Nephrol** 1990;10(1):1–9 (88 ref.)

Endocrine tumors. **van der Hoeven JJ, et al. Cancer Chemother Biol Response Modif** 1987;9:271–9 (52 ref.)

[Progress in endocrinology] **Hartwig W. Pol Arch Med Wewn** 1989 Feb;81(2):120–4 **(Pol)**

VETERINARY

Metabolic and endocrine myopathies of dogs and cats. **LeCouteur RA, et al. Semin Vet Med Surg (Small Anim)** 1989 May;4(2):146–55 (92 ref.)

Clinical management of tumours in geriatric dogs and cats: systemic effects of tumours and paraneoplastic syndromes. **Gorman NT. Vet Rec** 1990 Apr 21;126(16):395–8

ENDOCRINE GLANDS

Unconventional vertebrates as models in endocrine research. A symposium. December 5–6, 1988, Bethesda, Maryland. Proceedings. **J Exp Zool Suppl** 1990;4:1–218

Cyclostome models for speculation on evolution of vertebrate endocrine systems. **Gorbman A. J Exp Zool Suppl** 1990; 4:137–41

[Islands of Langerhans and diabetes—ecoendocrinology—evolution of hormone systems] **Hanke W, et al. Dtsch Med Wochenschr** 1989 Nov 24;114(47):1854–8 **(Ger)**

[Cell lines in experimental endocrinology] **Filipčík P, et al. Bratisl Lek Listy** 1990 Apr;91(4):278–83 (Eng. Abstr.) **(Slo)**

ANALYSIS

Detection of chromogranins A and B in endocrine tissues with radioactive and biotinylated oligonucleotide probes. **Lloyd RV, et al. Am J Surg Pathol** 1990 Jan;14(1):35–43

An immunological study on chromogranin A and B in human endocrine and nervous tissues. **Schmid KW, et al. Histochem J** 1989 Jun;21(6):365–73

Calcitonin gene–related peptide: endocrine distribution and characterization of circulating forms. **Zaidi M, et al. J Endocrinol Invest** 1989 Nov;12(10):699–704

An immunohistochemical study of various peptide–containing endocrine cells and neurones at the equine ileocaecal junction. **Kotze SH, et al. Onderstepoort J Vet Res** 1990 Mar;57(1):13–7

CYTOLOGY

Immunoreactivity of hormonally–characterized human endocrine cells against three novel anti–human chromogranin B(B11 and B13) and chromogranin A (A11) monoclonal antibodies. **Buffa R, et al. Arch Histol Cytol** 1989;52 Suppl:99–105

Urogenital paraneurons in several mammals. **Cecio A, et al. Arch Histol Cytol** 1989;52 Suppl:403–13

Autonomic neurons and paraneurons (SIF cells) in the sympathetic ganglia regulating guinea pig proximal colon: immunohistochemical studies. **Chiba T, et al. Arch Histol Cytol** 1989;52 Suppl:343–50 (54 ref.)

Present status of paraneuron concept. **Fujita T. Arch Histol Cytol** 1989;52 Suppl:1–8 (49 ref.)

The paraneuronal nature of neurons: nonspiking communication in the crayfish central nervous system. **Hisada M. Arch Histol Cytol** 1989;52 Suppl:139–46 (26 ref.)

The physiology and cell biology of paraneurons. **Kanno T. Arch Histol Cytol** 1989;52 Suppl:9–12 (21 ref.)

Chemoreceptive and mechanoreceptive paraneurons in the tongue. **Toyoshima K. Arch Histol Cytol** 1989;52 Suppl:383–8 (30 ref.)

The distribution of endocrine cells in the mucosa of the gastrointestinal tract of the house musk shrew, Suncus murinus (Insectivora). **Kanamori Y, et al. Cell Tissue Res** 1989 Nov;258(2):365–71

The gastroenteropancreatic endocrine system and related tumors. **Solcia E, et al. Gastroenterol Clin North Am** 1989 Dec;18(4):671–93 (116 ref.)

Kinetics of enteroendocrine cells with implications for their origin: a study of the cholecystokinin and gastrin subpopulations combining tritiated thymidine labelling with immunocytochemistry in the mouse. **Thompson EM, et al. Gut** 1990 Apr;31(4):406–11

Enteroendocrine cells in the developing opossum small intestine and colon. **Krause WJ, et al. J Anat** 1989 Feb; 162:83–96

An immunohistochemical study of endocrine cells in the proximal duodenum of eight marsupial species. **Takagi C, et al. J Anat** 1990 Feb;168:49–56

P29: a novel tyrosine–phosphorylated membrane protein present in small clear vesicles of neurons and endocrine cells. **Baumert M, et al. J Cell Biol** 1990 Apr;110(4):1285–94

Mapping enteroendocrine cell populations in transgenic mice reveals an unexpected degree of complexity in cellular differentiation within the gastrointestinal tract. **Roth KA, et al. J Cell Biol** 1990 May;110(5):1791–801

Pulmonary endocrine cells in native Peruvian guinea–pigs at low and high altitude. **Gosney JR. J Comp Pathol** 1990 Jan;102(1):7–12

Electrophysiological analysis of the regulation of endocrine and neuroendocrine cells by hormones and transmitters. **Kits KS, et al. Prog Clin Biol Res** 1990;342:146–56 (21 ref.)

An immunohistochemical study on the distribution of endocrine cells in the chicken gastrointestinal tract. **Yamanaka Y, et al. Z Mikrosk Anat Forsch** 1989; 103(3):437–46

DRUG EFFECTS

Endocrine evaluation of sevoflurane, a new inhalation anesthetic agent. **Oyama T, et al. Acta Anaesthesiol Belg** 1989;40(4):269–74

Chemotherapy and endocrine function in lung cancer. **Aasebø U, et al. Acta Oncol** 1989;28(5):667–9

Hemodynamic, renal, and endocrine actions of ANF in sheep: effect of 24–h, low–dose infusions. **Charles CJ, et al. Am J Physiol** 1990 May;258(5 Pt 2):R1279–85

Endocrine and neurochemical actions of cocaine. **Di Paolo T, et al. Can J Physiol Pharmacol** 1989 Sep;67(9):1177–81 (41 ref.)

The pharmacokinetics, safety and endocrine effects of authentic biosynthetic human growth hormone in normal subjects. **Ho KY, et al. Clin Endocrinol (Oxf)** 1989 Apr; 30(4):335–45

Influence of erythropoietin treatment on endocrine abnormalities in haemodialyzed patients. **Kokot F, et al. Contrib Nephrol** 1989;76:257–70; discussion 270–2

Analgesic, central, cardiovascular and endocrine effects of the enkephalin analogue Tyr–D.Arg–Gly–Phe(4NO2)–Pro–NH2 (443C81) in healthy volunteers. **Posner J, et al. Eur J Clin Pharmacol** 1990;38(3):213–8

Effects of environmental temperature on hypothermia and endocrine changes induced by soman. **Maickel RP, et al. Fundam Appl Toxicol** 1990 May;14(4):696–705

Teleost model for studying the effects of chemicals on female reproductive endocrine function. **Thomas P. J Exp Zool Suppl** 1990;4:126–8

Effect of melatonin administration and long day–length on endocrine cycles in the hedgehog Erinaceus europaeus. **Fowler PA, et al. J Pineal Res** 1990;8(3):193–204

[1,2–Bis(2,6–dichloro–4–hydroxyphenyl)ethylenediamine] dichloro–platinum(II): an endocrine–active platinum complex with a specific prostatic tumor–inhibiting activity. **Schneider MR, et al. Prostate** 1989;15(2):135–48

Influence of chronic rioprostil treatment on gastric endocrine function. **Koop H, et al. Scand J Gastroenterol Suppl** 1989; 164:104–10; discussion 110–1

Effects of nitrous oxide on endocrine stress response and haemodynamic parameters during coronary artery surgery. **Adams HA, et al. Thorac Cardiovasc Surg** 1990 Apr; 38(2):73–8

Short term toxicity of nitrous oxide on the immune, hemopoietic, and endocrine systems in CD–1 mice. **Healy CE, et al. Toxicol Ind Health** 1990 Jan;6(1):57–70

[Ultrastructure of the liver and endocrine system in aging rats: effect of piracetam] **Schiller E. Z Gerontol** 1990 May–Jun;23(3):168–70 (Eng. Abstr.) **(Ger)**

EMBRYOLOGY

[Endocrine cells in the epithelium of the fetal large intestine of cattle (Bos primigenius taurus) from the cytomorphological aspect] **Wille KH. Anat Anz** 1990; 171(1):17–22 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Regulatory subunits of cyclic AMP–dependent protein kinase: presence in granules and secretion by exocrine and endocrine cells. **Hand AR, et al. J Cell Sci** 1989 Aug;93 (Pt 4):675–81

[Endocrine, paracrine and autocrine mechanisms of aromatase activity] **Franchimont P, et al. J Steroid Biochem** 1989 Oct;33(4B):727–32 (61 ref.) (Eng. Abstr.) **(Fre)**

GROWTH & DEVELOPMENT

Amphibian experimental systems: developmental neurobiology and behavioral endocrinology in the clawed frog, Xenopus laevis. **Kelley DB, et al. J Exp Zool Suppl** 1990;4:148–9 (10 ref.)

The avian embryo as a model for early developmental endocrinology. **Murphy MJ, et al. J Exp Zool Suppl** 1990; 4:177–80 (19 ref.)

IMMUNOLOGY

Peripheral self–tolerance and autoimmunity: the protective role of expression of class II major histocompatibility antigens on non–lymphoid cells. **Iwatani Y, et al. Biomed Pharmacother** 1989;43(8):593–605 (123 ref.)

[Recent aspects of the pathogenesis of endocrine autoimmune diseases in the human: what role does expression of class II HLA molecules in the endocrine target cell play?] **Deuss U, et al. Klin Wochenschr** 1989 Nov 17;67(22):1117–25 (61 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

Exocrine and endocrine release of kallikrein after reflex-induced salivary secretion. Berg T, et al. **Acta Physiol Scand** 1990 May;139(1):29–37

Rainbow trout corpuscles of Stannius: stanniocalcin synthesis in vitro. Flik G, et al. **Am J Physiol** 1990 May;258(5 Pt 2):R1157–64

Chromogranins in mammalian GEP endocrine cells: their distribution and interrelations with co-stored amines and peptides. Grube D, et al. **Arch Histol Cytol** 1989;52 Suppl:91–8 (23 ref.)

Intracellular metabolism of biogenic amines in paraneurons. Hasegawa H, et al. **Arch Histol Cytol** 1989;52 Suppl:69–74

Expression of the cholecystokinin gene in the neuron and paraneuron. Takahashi Y, et al. **Arch Histol Cytol** 1989;52 Suppl:63–8 (16 ref.)

Acetylcholine in neurons and paraneurons: a histochemical study. Tsuji S, et al. **Arch Histol Cytol** 1989;52 Suppl:75–83 (59 ref.)

Ca2+ channels and intracellular Ca2+ stores in neuronal and neuroendocrine cells. Milani D, et al. **Cell Calcium** 1990 Feb–Mar;11(2–3):191–9 (50 ref.)

Endocrine function after brain death [editorial; comment] Zaloga GP. **Crit Care Med** 1990 Jul;18(7):785–6 Comment on: Crit Care Med 1990 Jul;18(7):702–8.

Human chorionic gonadotropin alpha-subunit in endocrine cells of fibrotic and neoplastic lung. Its mode of localization and the size profile of granules. Fukayama M, et al. **Lab Invest** 1990 Apr;62(4):444–51

The endocrine heart: studies of atrial natriuretic factor. Hardy JD, et al. **South Med J** 1990 Apr;83(4):448–50 (15 ref.)

[Endocrine parameters during artificial placentation and postnatal lung maturation] Schmidt S, et al. **Z Geburtshilfe Perinatol** 1990 Jul–Aug;194(4):173–8 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Diethylnitrosamine-induced pulmonary endocrine cell hyperplasia and its association with adenomatosis and adenocarcinoma in rabbits. Huntrakoon M, et al. **Am J Pathol** 1989 Dec;135(6):1119–28

Tumour pathology of the neuron-paraneuron system and its evolutionary background, with special attention to neuro-endocrine differentiation in prostate and mammary carcinomas. Falkmer S, et al. **Arch Histol Cytol** 1989;52 Suppl:225–32 (28 ref.)

Endocrine cells in non-endocrine tumours [editorial] Bosman FT. **J Pathol** 1989 Nov;159(3):181–2 (9 ref.)

Pulmonary blood vessels and endocrine cells in subacute infantile mountain sickness. Heath D, et al. **Respir Med** 1989 Jan;83(1):77–81

[Anaplastic tumor of the bladder with neurosecretory granules and benign courses] Vera-Román JM, et al. **Arch Esp Urol** 1989 Jun;42(5):437–40 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Program of plenary sessions and advance abstracts of short communications. 34. Symposium Deutsche Gesellschaft für Endokrinologie. Hannover, March 14–17, 1990. **Acta Endocrinol (Copenh)** 1990;122 Suppl 1:1–144

Endocrine factors in the neonatal adaptation. Sulyok E. **Acta Physiol Hung** 1989;74(3–4):329–39 (79 ref.)

Spontaneous EEG paroxysmal activity, behavioural and endocrine changes in male rats subjected to different regimens of locomotion. Nikiforova AS, et al. **Acta Physiol Pharmacol Bulg** 1989;15(2):58–62

The thyroid as a model endocrine system. Robbins J. **Adv Exp Med Biol** 1989;261:1–4

Effects of baroreceptor denervation on endocrine and drinking responses to caval constriction in dogs. Quillen EW Jr, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R618–26

The calcium endocrine system. Sethi S, et al. **Ann Acad Med Singapore** 1989 Jul;18(4):431–5 (30 ref.)

The heart is the center of a new endocrine, paracrine, and neuroendocrine system. Forssmann WG, et al. **Arch Histol Cytol** 1989;52 Suppl:293–315 (111 ref.)

Perinatal endocrinology. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):579–890

The endocrinology of feeding in the newborn. Aynsley-Green A. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):837–68 (152 ref.)

Development of endocrine pathways in the regulation of calcium homeostasis. Care AD. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):671–88 (70 ref.)

Neuroendocrine control of blood tonicity and volume. Chowdrey HS, et al. **Baillieres Clin Endocrinol Metab** 1989 Aug;3(2):229–47 (142 ref.)

The endocrine control of the onset of thermogenesis at birth. Gunn TR, et al. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):869–86 (86 ref.)

Endocrine function of the placenta. Jones CT. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):755–80 (290 ref.)

Endocrine control of electrolyte balance during development. Robillard JE, et al. **Baillieres Clin Endocrinol Metab** 1989 Nov;3(3):659–69 (94 ref.)

In vitro systems for the study of human placental endocrine function. Ringler GE, et al. **Endocr Rev** 1990 Feb;11(1):105–23 (190 ref.)

Circulating regulatory factors and neuroendocrine function. Papers presented at the satellite symposium of the XXXI IUPS Congress. Smolenice Castle, Czechoslovakia, June 26–July 1, 1989. **Endocrinol Exp** 1990 Mar;24(1–2):1–273

Endocrinology of the salivary glands. Grigorescu A. **Endocrinologie** 1989 Jul–Sep;27(3):185–9 (0 ref.)

Effect of endocrine manipulation on anterior pituitary galanin in the rat. O'Halloran DJ, et al. **Endocrinology** 1990 Jul;127(1):467–75

Issue dedicated to Professor Günter Dörner on the occasion of his 60th birthday. **Exp Clin Endocrinol** 1989 Sep;94(1–2):1–225

Endocrine and behavioral responses to psychological stress in hyperandrogenic women. Modell E, et al. **Fertil Steril** 1990 Mar;53(3):454–9

Neuropeptide Y: localization in the central nervous system and neuroendocrine functions. Danger JM, et al. **Fundam Clin Pharmacol** 1990;4(3):307–40 (156 ref.)

Is the human colon an endocrine organ? Moxey PC. **Gastroenterology** 1978 Jul;75(1):147–9

9th joint meeting of British Endocrine Societies. 19–22 March 1990, Glasgow. Abstracts. **J Endocrinol** 1990 Mar;124 Suppl:274 abstracts

180th meeting of the Society for Endocrinology. 15–17 November 1989. Abstracts. **J Endocrinol** 1989 Nov;123 Suppl:169 abstracts

Mexican leaf frog (Pachymedusa dacnicolor) as a model in endocrine research. Bagnara JT. **J Exp Zool Suppl** 1990; 4:145–7 (15 ref.)

The avian ovary: model for endocrine studies. Bahr J. **J Exp Zool Suppl** 1990;4:192–4 (20 ref.)

Endocrine correlates of hibernation-independent gonadal recrudescence and the limited late-winter breeding season in woodchucks, Marmota monax. Concannon PW, et al. **J Exp Zool Suppl** 1990;4:203–6 (18 ref.)

Amphibian model system for problems in behavioral neuroendocrinology. Moore FL. **J Exp Zool Suppl** 1990; 4:157–8 (14 ref.)

The musk shrew, Suncus murinus, a unique animal model for the study of female behavioral endocrinology. Rissman EF. **J Exp Zool Suppl** 1990;4:207–9 (18 ref.)

Preoperative anxiety and endocrine response to surgery [letter] Salmon P, et al. **Lancet** 1990 Jun 2;335(8701):1340

At the cutting edge. Paracrine, cryptocrine, acrocrine. Funder JW. **Mol Cell Endocrinol** 1990 Mar 26;70(1):C21–4

Neurochemical, endocrine and immunological responses to stress in young and old Fischer 344 male rats. Lorens SA, et al. **Neurobiol Aging** 1990 Mar–Apr;11(2):139–50

2nd International Congress of Neuroendocrinology. Bordeaux, France, June 24–29, 1990. Abstracts. **Neuroendocrinology** 1990;52 Suppl 1:1–178

Endocrinologic control of food intake. Uvnäs-Moberg K. **Nutr Rev** 1990 Feb;48(2):57–63; discussion 114–31 (37 ref.)

Role of endogenous ANP on endocrine function investigated with a monoclonal antibody. Stasch JP, et al. **Peptides** 1990 May–Jun;11(3):577–82

New insights into the nutritional management of newborn infants derived from studies of metabolic and endocrine inter-relations during the adaptation to post-natal life. Aynsley-Green A. **Proc Nutr Soc** 1989 Jul;48(2):283–92 (35 ref.)

The endocrinology of transsexualism: a review and commentary. Gooren L. **Psychoneuroendocrinology** 1990; 15(1):3–14 (71 ref.)

Comparison of crowding and food restriction effects on growth, body weight gain and endocrine status in the rat. Restrepo C, et al. **Reprod Nutr Dev** 1989;29(3):339–45

The Philip K. Bondy Symposium—recent advances in endocrinology and metabolism. May 5, 1989. **Yale J Biol Med** 1989 Sep–Oct;62(5):417–547

[21st French Congress of Endocrinology. Strasbourg, 12–14 October 1989. Abstracts] **Ann Endocrinol (Paris)** 1989; 50(4):250–373 **(Fre)**

[The heart—an endocrine organ] Stratone A. **Physiologie** 1989 Jul–Sep;26(3):223–31 (34 ref.) **(Fre)**

[Endocrine reactions during acute normovolemic hemodilution] Adams HA, et al. **Anaesthesist** 1990 May; 39(5):269–74 (Eng. Abstr.) **(Ger)**

[62d fall meeting of the Japan Endocrine Society. 20–21 October 1989, Sapporo. Abstracts] **Nippon Naibunpi Gakkai Zasshi** 1989 Sep 20;65(9):829–999 **(Jpn)**

[63d meeting of the Japan Endocrine Society. Osaka, 17–19 May 1990. Abstracts] **Nippon Naibunpi Gakkai Zasshi** 1990 Apr 20;66(4):219–517 **(Jpn)**

[The characteristics of the endocrine function of the fetoplacental system in pregnant women with chronic pyelonephritis and nephropathy] Alieva EM, et al. **Akush Ginekol (Mosk)** 1989 Dec;(12):14–8 (Eng. Abstr.) **(Rus)**

[Neural regulation of endocrine gland functions upon aging] Frol'kis VV, et al. **Dokl Akad Nauk SSSR** 1989; 306(6):1507–11 **(Rus)**

[Diseases of the cardiovascular system and the function of the endocrine glands in veterans of Soviet Antarctic expeditions] Iakovlev VA, et al. **Ter Arkh** 1990;62(4):47–51 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Cardiovascular and endocrine responses to haemorrhage in the pig. Jacobsen J, et al. **Acta Physiol Scand** 1990 Feb;138(2):167–73

Cardiovascular, renal, and endocrine responses in male quadriplegics during head-out water immersion. Tajima F, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1424–30

Neurobiology of pyridoxine. Dakshinamurti K, et al. **Ann N Y Acad Sci** 1990;585:128–44 (45 ref.)

Endocrine responses to orthostatic hypotension in quadriplegia. Vallbona C, et al. **Arch Phys Med Rehabil** 1966 Jul;47(7):412–21

Sexual dysfunction in uremia. Endocrine and neurological alterations. Campese VM, et al. **Contrib Nephrol** 1990; 77:1–14 (46 ref.)

Reproductive endocrinologic alterations in female asymptomatic obesity. Azziz R. **Fertil Steril** 1989 Nov; 52(5):703–25 (175 ref.)

Endocrine, metabolic, and clinical effects of gestrinone in women with endometriosis. Venturini PL, et al. **Fertil Steril** 1989 Oct;52(4):589–95

Short-term use of buserelin in combination with human menopausal gonadotrophins for ovarian stimulation for in-vitro fertilization in endocrinologically normal women. Smitz J, et al. **Hum Reprod** 1990 Feb;5(2):157–62

Differences in blacks and whites with essential hypertension: biochemistry and endocrine. State of the art lecture. Falkner B. **Hypertension** 1990 Jun;15(6 Pt 2):681–6 (61 ref.)

Endocrine disturbances and reduced sympathetic activity in the development of obesity. Bray GA. **Infusionstherapie** 1990 Jun;17(3):124–30 (91 ref.)

Endocrine effects of blinding in male Syrian hamsters are associated with increased hypothalamic 5-hydroxyindoleacetic acid/serotonin ratios. Vriend J. **J Pineal Res** 1989;7(4):401–9

Endocrine changes after burn trauma—a review. Doleček R. **Keio J Med** 1989 Sep;38(3):262–76 (80 ref.)

Polycystic kidneys do maintain good endocrine function. Rotellar C, et al. **Med Hypotheses** 1989 Sep;30(1):61–4

Water, electrolyte, and endocrine homeostasis in infants with bronchiolitis. Gozal D, et al. **Pediatr Res** 1990 Feb; 27(2):204–9

Towards an interdisciplinary analysis of stress. Derevenco P. **Physiologie** 1989 Jul–Sep;26(3):183–8

Endocrine functions in atherosclerotic rabbits. Wójcicki J, et al. **Pol J Pharmacol Pharm** 1989 Mar–Apr;41(2):109–13

[Endocrine consequences of infection by human immunodeficiency virus (HIV)] Schlienger JL, et al. **Pathol Biol (Paris)** 1989 Oct;37(8):921–6 (31 ref.) (Eng. Abstr.) **(Fre)**

[The endocrinological aspects of the therapy of testicular involvement in children with acute leukemias] Dörffel W, et al. **Padiatr Grenzgeb** 1990;29(2):107–10 (Eng. Abstr.) **(Ger)**

[Digestive endocrinology, today] Carlei F, et al. **Ann Ital Chir** 1989 Sep–Oct;60(5):393–7; discussion 397–8 (Eng. Abstr.) **(Ita)**

[Pathogenetic endocrine aspects of primary osteoporosis] Coppola A, et al. **Minerva Med** 1990 Mar;81(3):151–6 (25 ref.) (Eng. Abstr.) **(Ita)**

[Evaluation of the prognostic value of endocrine stress disturbances in patients with disseminated peritonitis] Riabov GA, et al. **Anesteziol Reanimatol** 1989 May–Jun; (3):11–5 (Eng. Abstr.) **(Rus)**

[The effect of normobaric hypoxia on the functioning of links in the endocrine system] Shakhtarin VV, et al. **Med Radiol (Mosk)** 1990 Jan;35(1):26–8 (Eng. Abstr.) **(Rus)**

[The effect of the transcerebral action of an ultrahigh-frequency electrical field on endocrine gland function in chronic alcoholics] Bobkova AS, et al. **Probl Endokrinol (Mosk)** 1990 Mar–Apr;36(2):49–51 (Eng. Abstr.) **(Rus)**

[Functional characteristics of the endocrine and immune systems in patients with visceral candidiasis] Sokolova GA, et al. **Ter Arkh** 1989;61(11):81–5 (Eng. Abstr.) **(Rus)**

[The patterns of the changes in the indices of the immune and endocrine systems in elderly subjects under the transcerebral action of an ultra-high-frequency electrical field] Bogoliubova VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1990 Mar–Apr; (2):16–20 **(Rus)**

[Endocrine function in the late period after radiation therapy of acromegaly] Avakian MR, et al. **Zh Vopr Neirokhir** 1989 Sep–Oct;(5):32–4 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Effects of gamma irradiation on histomorphology of some endocrine glands of the rain quail, Coturnix coromandelica (Gmelin). Deshmukh BD, et al. **Indian J Exp Biol** 1989 Sep;27(9):780–4

[Endocrine complications caused by cranial irradiation] Brauner R, et al. **Ann Pediatr (Paris)** 1989 Sep;36(7):419–24 (Eng. Abstr.) **(Fre)**

[Reaction of the endocrine system to continuous and intermittent electromagnetic fields] Zagorskaia EA. **Kosm Biol Aviakosm Med** 1989 Nov–Dec;23(6):4–14 (126 ref.) (Eng. Abstr.) **(Rus)**

SECRETION

Operating behavior of dual or multiple endocrine pulse generators. Veldhuis JD, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E351–61

Juvenile hormone inhibits ecdysone secretion and

responsiveness to prothoracicotropic hormone in prothoracic glands of Bombyx mori. Sakurai S, et al. **Gen Comp Endocrinol** 1989 Aug;75(2):222–30

Short-loop negative and positive feedback on ecdysone secretion by prothoracic gland in the tobacco hornworm, Manduca sexta. Sakurai S, et al. **Gen Comp Endocrinol** 1989 Aug;75(2):204–16

Neuroendocrine sources of chromogranin–A in normal man: clues from selective stimulation of endocrine glands. Takiyyuddin MA, et al. **J Clin Endocrinol Metab** 1990 Aug; 71(2):360–9

[The heart—an endocrine organ] Stratone A. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep;93(3):453–60 (34 ref.) **(Rum)**

[The heart as an endocrine organ] Molbenko AA, et al. **Fiziol Zh** 1990 May–Jun;36(3):99–109 (80 ref.) (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Receptors of paraneurons, with special reference to glucoreceptors. Niki A, et al. **Arch Histol Cytol** 1989;52 Suppl:33–8 (29 ref.)

The relation of atrial natriuretic factor to isolated atrial amyloid. Johansson B, et al. **Exp Mol Pathol** 1990 Jun; 52(3):266–78

1–naphthol–pyronin B as a novel substrate for silver intensification: application to light and electron microscopic immunocytochemistry of neuroendocrine systems. Toni R, et al. **J Histochem Cytochem** 1990 Aug; 38(8):1209–14

[Ultrastructural aspects in the development of the human heart. II. The endocrine cells of the embryonic heart] Cotrutz C, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep;93(3):559–62 (Eng. Abstr.) **(Fre)**

ENDOCRINOLOGY

see related
ENDOCRINE DISEASES

The Endocrine Society 1990 annual awards. **Endocrinology** 1990 Aug;127(2):971–9

The relevance of endocrinology to a national research program [editorial] Gorden P. **Endocrinology** 1989 Dec; 125(6):2797–9

Report on statistical quality of Endocrine Society Journals. Hawkins D, et al. **Endocrinology** 1989 Oct;125(4):1749–53

The Endocrine Society 1990 annual awards. **J Clin Endocrinol Metab** 1990 Aug;71(2):536–44

A view from out there. Schwartz TB. **JAMA** 1989 Nov 17; 262(19):2730–1

[Present state and perspectives of endocrinology in Czechoslovakia] Zamrazil V, et al. **Cas Lek Cesk** 1990 Jun 29;129(26):801–5 (Eng. Abstr.) **(Cze)**

EDUCATION

[Diabetes mellitus, a pending subject for endocrinologists] Figuerola D. **Med Clin (Barc)** 1989 Nov 4;93(14):548–55 (43 ref.) **(Spa)**

HISTORY

Oskar Minkowski: discovery of the pancreatic origin of diabetes, 1889. Luft R. **Diabetologia** 1989 Jul;32(7):399–401

Clinical research and basic science: the development of the concept of end–organ resistance to a hormone. Sinding C. **J Hist Med Allied Sci** 1990 Apr;45(2):198–232

A tribute to Jack Gorski: estrogen receptor model builder and scientific friend to many. Katzenellenbogen BS. **Prog Clin Biol Res** 1990;322:1–16 (15 ref.)

[Endocrinology is one hundred years old (editorial)] Wolf LM. **Ann Endocrinol (Paris)** 1989;50(5):377–8 **(Fre)**

[Development of endocrinology in Bosnia and Herzegovina over the past 20 years (1969–1989)] Grujić M. **Med Arh** 1989;43(4–6):283–6 **(Scr)**

INSTRUMENTATION

[What can the computer contribute to medicine? 2: User programs—exemplified by endocrinology] Wyst M. **Fortschr Med** 1990 Mar 20;108(7):102–4 (36 ref.) **(Ger)**

METHODS

[Alternative methods: development and use of two "in vitro" models for endocrine studies] Bestetti GE, et al. **Schweiz Arch Tierheilkd** 1989;131(9):537–45 (Eng. Abstr.) **(Fre)**

[Immunochemical research methods in endocrinology] Bulatov AA. **Probl Endokrinol (Mosk)** 1990 Mar–Apr; 36(2):3–8 **(Rus)**

STANDARDS

[A note on the methodological recommendations in endocrinology approved by the Ministry of Public Health of the USSR] Kuznetsova ES. **Probl Endokrinol (Mosk)** 1990 Jan–Feb;36(1):57 **(Rus)**

TRENDS

Psychiatry and endocrinology. Pitts M, et al. **Endocrinologie** 1989 Apr–Jun;27(2):111–5

Endocrinology. Molitch ME. **JAMA** 1990 May 16; 263(19):2639–40

[Progress in endocrinology] Hartwig W. **Pol Arch Med Wewn** 1988 Apr;79(4):224–7 **(Pol)**

[Progress in endocrinology] Hartwig W. **Pol Arch Med Wewn** 1989 Feb;81(2):120–4 **(Pol)**

[Status and prospects of research and top priority goals in the organization of therapeutic–prophylactic work in the area of pediatric endocrinology (editorial)] Zhukovskiĭ MA. **Pediatriia** 1989;(11):5–10 **(Rus)**

[Current problems in clinical endocrinology (a review of the literature)] Tron'ko ND. **Vrach Delo** 1989 Sep;(9):1–6 (35 ref.) **(Rus)**

ENDOCRINOLOGY AND METABOLISM (SPECIALTY)
see **ENDOCRINOLOGY**

ENDOCYTOSIS

see related
RECEPTOSOMES

Endocytosis in the rat retinal pigment epithelium. Perlman JI, et al. **Acta Anat (Basel)** 1989;135(4):354–60

Receptor–mediated endocytosis of insulin: inhibition of [125I]iodoinsulin internalization in insulin resistant diabetic states of man. Grunberger G, et al. **Acta Endocrinol (Copenh)** 1989 Oct;121(4):581–6

Transcytosis of macromolecules through the blood–brain barrier: a cell biological perspective and critical appraisal. Broadwell RD. **Acta Neuropathol (Berl)** 1989;79(2):117–28 (77 ref.)

In vitro endocytosis of benign and malignant human bone marrow plasma cells. Ohtake K, et al. **Am J Hematol** 1990 Oct;35(2):100–3

Movement of receptors and ligands through the endocytic apparatus in alveolar macrophages. Kaplan J, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):L263–70 (83 ref.)

Altered role of microtubules in asialoglycoprotein trafficking in developing liver. Kaufman SS, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):G129–37

FITC–dextran as a probe for endosome function and localization in kidney. Lencer WI, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):C309–17

Downregulation of surface sodium pumps by endocytosis during meiotic maturation of Xenopus laevis oocytes. Schmalzing G, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):C179–84

Evidence for a different mechanism of lactoferrin and transferrin translocation on HT 29–D4 cells. Roiron–Lagroux D, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):837–42

A carcinoembryonic antigen (CEA) binding protein from ascites influences CEA uptake by macrophages. Toth CA, et al. **Biochem Biophys Res Commun** 1990 Sep 14; 171(2):633–40

Distribution of G–proteins in rat liver plasma–membrane domains and endocytic pathways. Ali N, et al. **Biochem J** 1989 Aug 1;261(3):905–12

A point mutation in the cytoplasmic domain of the transferrin receptor inhibits endocytosis. Alvarez E, et al. **Biochem J** 1990 Apr 1;267(1):31–5

High–yield isolation of functionally competent endosomes from mouse lymphocytes. Beaumelle BD, et al. **Biochem J** 1989 Nov 15;264(1):137–49

A multicompartmental model of fluid–phase endocytosis in rabbit liver parenchymal cells. Blomhoff R, et al. **Biochem J** 1989 Sep 1;262(2):605–10

Receptor–mediated endocytosis and nuclear transport of human interleukin 1 alpha. Grenfell S, et al. **Biochem J** 1989 Dec 15;264(3):813–22

Endocytosis of a small dermatan sulphate proteoglycan. Identification of binding proteins. Hausser H, et al. **Biochem J** 1989 Oct 1;263(1):137–42

Intracellular transport of endocytosed proteins in rat liver endothelial cells. Kindberg GM, et al. **Biochem J** 1990 Aug 15;270(1):205–11

The rate of internalization of different receptor–ligand complexes in alveolar macrophages is receptor–specific. Ward DM, et al. **Biochem J** 1990 Sep 1;270(2):369–74

Evidence for targeted gene transfer by receptor–mediated endocytosis. Stable expression following insulin–directed entry of NEO into HepG2 cells. Huckett B, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):253–63

Endocytosis and recycling of CD4. Marsh M, et al. **Biochem Soc Trans** 1990 Apr;18(2):139–43

Endocytosis and intracellular fate of liposomes using pyranine as a probe. Straubinger RM, et al. **Biochemistry** 1990 May 22;29(20):4929–39

Immunoliposomes with different acid sensitivities as probes for the cellular endocytic pathway. Collins D, et al. **Biochim Biophys Acta** 1989 Dec 11;987(1):47–55

Endocytosis of liposomes by macrophages: binding, acidification and leakage of liposomes monitored by a new fluorescence assay. Daleke DL, et al. **Biochim Biophys Acta** 1990 May 24;1024(2):352–66

Scavenger receptor of human monocytic leukemia cell line (THP–1) and murine macrophages for nonenzymatically glycosylated proteins. Takata K, et al. **Biochim Biophys Acta** 1989 Nov 17;986(1):18–26

Endocytosis in spermatids during spermiogenesis of the mouse. Segretain D. **Biol Cell** 1989;67(3):289–98

Antigen–induced antigen endocytosis in primitive reticular cells of connective tissue of innervated and denervated skeletal muscle from the allergized guinea pig. Alonso–deFlorida F, et al. **Bol Estud Med Biol** 1989 Jan–Jun;37(1–2):36–41

Endocytosis and transcytosis by the capsule cell of vertebrate muscle spindles. Fukami Y, et al. **Brain Res** 1989 Oct 16; 499(2):249–57

Microtubule– and motor–dependent fusion in vitro between apical and basolateral endocytic vesicles from MDCK cells. Bomsel M, et al. **Cell** 1990 Aug 24;62(4):719–31

Functional independence of the epidermal growth factor receptor from a domain required for ligand–induced internalization and calcium regulation. Chen WS, et al. **Cell** 1989 Oct 6;59(1):33–43

The biosynthetic pathway of MHC class II but not class I molecules intersects the endocytic route. Neefjes JJ, et al. **Cell** 1990 Apr 6;61(1):171–83

Synaptophysin and synapsin I as tools for the study of the exo–endocytotic cycle. Valtorta F, et al. **Cell Biol Int Rep** 1989 Dec;13(12):1023–38 (59 ref.)

Differential endocytosis of IgM and IgD in murine B cell lines. Guarini L, et al. **Cell Immunol** 1989 Oct 15; 123(2):456–61

Early events related with the behaviour of Trypanosoma cruzi within an endocytic vacuole in mouse peritoneal macrophages. de Carvalho TM, et al. **Cell Struct Funct** 1989 Aug;14(4):383–92

Uptake and intracellular routing of peroxidase–conjugated immunoglobulin–G by the perfused human placenta. Leach L, et al. **Cell Tissue Res** 1990 Aug;261(2):383–8

Uptake and utilization of human polymorphonuclear leukocyte granule myeloperoxidase by mouse peritoneal macrophages. Leung KP, et al. **Cell Tissue Res** 1989 Sep; 257(3):653–6

High endocytotic and lysosomal activities in segments of rat myotubes differentiated in vitro. Tågerud S, et al. **Cell Tissue Res** 1990 Feb;259(2):225–32

Synchronized endocytosis studied in the oocyte of a temperature–sensitive mutant of Drosophila melanogaster. Tsuruhara T, et al. **Cell Tissue Res** 1990 Feb;259(2):199–207

Selective illumination of single photoreceptors in the house fly retina: local membrane turnover and uptake of extracellular horseradish peroxidase (HRP) and lucifer yellow. Wunderer H, et al. **Cell Tissue Res** 1989 Sep; 257(3):565–76

Endocytosis. Hubbard AL. **Curr Opin Cell Biol** 1989 Aug; 1(4):675–83 (29 ref.)

Cell surface receptors that serve to transport ligands. Trowbridge IS. **Curr Opin Cell Biol** 1989 Apr;1(2):186–91 (17 ref.)

Endocytosis and recycling of subunit H1 of the asialoglycoprotein receptor is independent of oligomerization with H2. Geffen I, et al. **EMBO J** 1989 Oct;8(10):2855–61

Internalization and recycling of CD4 transfected into HeLa and NIH3T3 cells. Pelchen–Matthews A, et al. **EMBO J** 1989 Dec 1;8(12):3641–9

Structural features of the cytoplasmic region of CD4 required for internalization. Shin J, et al. **EMBO J** 1990 Feb; 9(2):425–34

Endocytosis and degradation of ovine prolactin by Nb2 lymphoma cells: characterization and effects of agents known to alter prolactin–induced mitogenesis. Augustine EC, et al. **Endocrinology** 1990 Jul;127(1):200–10

Receptor–mediated endocytosis and differential synthesis of mannose 6–phosphate receptors in isolated spermatogenic and sertoli cells. O'Brien DA, et al. **Endocrinology** 1989 Dec;125(6):2973–84

Differences in adenosine triphosphate dependency of receptor–mediated endocytosis of alpha 2–macroglobulin and insulin correlate with separate routes of ligand–receptor complex internalization. Smith RM, et al. **Endocrinology** 1990 Mar;126(3):1551–60

Oxytocin in the ovine ductuli efferentes and caput epididymidis: immunolocalization and endocytosis from the luminal fluid. Veeramachaneni DN, et al. **Endocrinology** 1990 Feb;126(2):1156–64

Morphological characterization of the pathway of endocytosis and intracellular processing of transferrin and alpha–fetoprotein in human T lymphocytes stimulated with phytohemagglutinin (PHA). Geuskens M, et al. **Eur J Cell Biol** 1989 Dec;50(2):418–27

The intracellular movement and cycling of ricin. McIntosh D, et al. **Eur J Cell Biol** 1990 Jun;52(1):77–86

Ferromagnetic isolation of endosomes involved in vitellogenin transfer into Xenopus oocytes. Richter HP, et al. **Eur J Cell Biol** 1990 Feb;51(1):53–63

Endocytosis mediated by the mannose receptor in liver endothelial cells. An immunocytochemical study. Stang E, et al. **Eur J Cell Biol** 1990 Jun;52(1):67–76

Endocytosis, intracellular transport and transcytosis of the toxic protein ricin by a polarized epithelium. van Deurs B, et al. **Eur J Cell Biol** 1990 Feb;51(1):96–109

Transferrin receptors and cation–independent mannose–6–phosphate receptors deliver their ligands to two distinct subpopulations of multivesicular endosomes. Woods JW, et al. **Eur J Cell Biol** 1989 Oct;50(1):132–43

Micro–scission of YAC tumor cells during antibody–dependent cellular cytotoxicity mediated by human neutrophils. Zhou M, et al. **Eur J Cell Biol** 1989 Oct;50(1):201–8

Internalized ricin and the plasma membrane glycoprotein MAM–6 colocalize in the trans–Golgi network of T47D human breast carcinoma cells. Hansen SH, et al.

Exp Cell Res 1989 Dec;185(2):373–86
Identification of a high–affinity Ca2+ pump associated with endocytotic vesicles in Dictyostelium discoideum. Milne JL, et al. **Exp Cell Res** 1989 Nov;185(1):21–32
Kinetic and morphological evidence for endocytosis of mammalian cell integrin receptors by using an anti–fibronectin receptor beta subunit monoclonal antibody. Raub TJ, et al. **Exp Cell Res** 1989 Oct; 184(2):407–26
Trypanosoma brucei: a membrane–associated protein in coated endocytotic vesicles. Webster P, et al. **Exp Parasitol** 1990 Feb;70(2):154–63
Fluid–phase endocytosis in yeasts other than Saccharomyces cerevisiae. Fernandez N, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):7–11
Morphologic demonstration of receptor–mediated endocytosis of epidermal growth factor by isolated bile duct epithelial cells. Ishii M, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1284–91
Comparison of antigen uptake by peritoneal macrophages and veiled cells from the thoracic duct using isotope–, FITC–, or gold–labelled antigen. Rhodes JM, et al. **Immunology** 1989 Nov;68(3):403–9
Endocytosis in cultures of Blastocystis hominis. Stenzel DJ, et al. **Int J Parasitol** 1989 Nov;19(7):787–91
The ways of endocytosis. van Deurs B, et al. **Int Rev Cytol** 1989;117:131–77 (285 ref.)
Proteins in luminal fluid of the ram excurrent ducts: changes in composition and evidence for differential endocytosis. Veeramachaneni DN, et al. **J Androl** 1990 Mar–Apr; 11(2):140–54
Subpopulations of endosomes generated at sequential stages in the endocytic pathway of asialoganglioside–containing ferrite ligands in rat liver. Sako Y, et al. **J Biochem (Tokyo)** 1990 Jun;107(6):846–53
Visualization of predentine matrix components and endocytic structures in rat incisor odontoblasts with tannic acid. Goldberg M, et al. **J Biol Buccale** 1989 Dec;17(4):245–54
Inhibition of the receptor–mediated endocytosis of diferric transferrin is associated with the covalent modification of the transferrin receptor with palmitic acid. Alvarez E, et al. **J Biol Chem** 1990 Sep 25;265(27):16644–55
Acidification–dependent dissociation of endocytosed insulin precedes that of endocytosed proteins bearing the mannose 6–phosphate recognition marker. Borden LA, et al. **J Biol Chem** 1990 May 25;265(15):8497–504
Deletions in the cytoplasmic domain of the polymeric immunoglobulin receptor differentially affect endocytotic rate and postendocytotic traffic. Breitfeld PP, et al. **J Biol Chem** 1990 Aug 15;265(23):13750–7
Quantitative analysis of the endocytic system involved in hormone–induced receptor internalization. Lund KA, et al. **J Biol Chem** 1990 Sep 15;265(26):15713–23
Endocytosis, recycling, and lysosomal delivery of brush border hydrolases in cultured human intestinal epithelial cells (Caco–2). Matter K, et al. **J Biol Chem** 1990 Feb 25; 265(6):3503–12
Mobilization of iron from endocytic vesicles. The effects of acidification and reduction. Núñez MT, et al. **J Biol Chem** 1990 Apr 25;265(12):6688–92
Selective modulation of the endocytic uptake of ricin and fluid phase markers without alteration in transferrin endocytosis. Sandvig K, et al. **J Biol Chem** 1990 Apr 15; 265(11):6382–8
A domain of the insulin receptor required for endocytosis in rat fibroblasts. Thies RS, et al. **J Biol Chem** 1990 Jun 15;265(17):10132–7
The sorting and segregation mechanism of the endocytic pathway is functional in a cell–free system. Wessling–Resnick M, et al. **J Biol Chem** 1990 Jan 15; 265(2):690–9
Characterization of internalization and endosome formation of epidermal growth factor in transfected NIH–3T3 cells by computerized image–intensified three–dimensional fluorescence microscopy. Benveniste M, et al. **J Cell Biol** 1989 Nov;109(5):2105–15
Endocytosis in filter–grown Madin–Darby canine kidney cells. Bomsel M, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3243–58
Iterative fractionation of recycling receptors from lysosomally destined ligands in an early sorting endosome. Dunn KW, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3303–14
A Dictyostelium discoideum mutant that missorts and oversecretes lysosomal enzyme precursors is defective in endocytosis. Ebert DL, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1445–56
Polarized endocytosis by Madin–Darby canine kidney cells transfected with functional chicken liver glycoprotein receptor. Graeve L, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2809–16
A quantitative analysis of the endocytic pathway in baby hamster kidney cells. Griffiths G, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2703–20
Endocytosis of simian virus 40 into the endoplasmic reticulum. Kartenbeck J, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2721–9
Ligand–mediated internalization, recycling, and downregulation of the epidermal growth factor receptor in vivo [published erratum appears in J Cell Biol 1990 Jan;110(1):following 227] Lai WH, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2741–9
Ligand–mediated autophosphorylation activity of the epidermal growth factor receptor during internalization. Lai WH, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2751–60
Endocytic vesicles from renal papilla which retrieve the vasopressin–sensitive water channel do not contain a functional H+ ATPase. Lencer WI, et al. **J Cell Biol** 1990 Aug;111(2):379–89
Meeting of the apical and basolateral endocytic pathways of the Madin–Darby canine kidney cell in late endosomes. Parton RG, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3259–72
The glycophospholipid–linked folate receptor internalizes folate without entering the clathrin–coated pit endocytic pathway. Rothberg KG, et al. **J Cell Biol** 1990 Mar; 110(3):637–49
Fusion accessibility of endocytic compartments along the recycling and lysosomal endocytic pathways in intact cells. Salzman NH, et al. **J Cell Biol** 1989 Nov;109(5):2097–104
In exocrine pancreas, the basolateral endocytic pathway converges with the autophagic pathway immediately after the early endosome. Tooze J, et al. **J Cell Biol** 1990 Aug; 111(2):329–45
Fusion of sequentially internalized vesicles in alveolar macrophages. Ward DM, et al. **J Cell Biol** 1990 Apr; 110(4):1013–22
Kinetics of hydrolysis of endocytosed substrates by mammalian cultured cells: early introduction of lysosomal enzymes into the endocytic pathway. Bowser R, et al. **J Cell Physiol** 1990 Apr;143(1):110–7
Endocytosis of wheat germ agglutinin binding sites from the cell surface into a tubular endosomal network. Raub TJ, et al. **J Cell Physiol** 1990 Apr;143(1):1–12
Internalization of lucifer yellow in Candida albicans by fluid phase endocytosis. Basrai MA, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1059–65
Ultrastructural studies on the intracellular fate of Chlamydia psittaci (strain guinea pig inclusion conjunctivitis) and Chlamydia trachomatis (strain lymphogranuloma venereum 434): modulation of intracellular events and relationship with endocytic mechanism. Prain CJ, et al. **J Gen Microbiol** 1989 Jul;135 (Pt 7):2107–23
Endocytosis and recycling of MHC–encoded class II molecules by mouse B lymphocytes. Machy P, et al. **J Immunol** 1990 Sep 1;145(5):1350–5
Transient activation of the NADPH oxidase through Fc gamma RI. Oxidase deactivation precedes internalization of cross–linked receptors. Pfefferkorn LC, et al. **J Immunol** 1989 Oct 15;143(8):2640–9
Endocytosis and shedding of the decay accelerating factor on human polymorphonuclear cells. Tausk F, et al. **J Immunol** 1989 Nov 15;143(10):3295–302
Modulation of the binding and endocytosis of concanavalin A by guinea pig keratinocytes: reversible antagonistic effects of cholesterol and phospholipid–liposomes. Callaghan TM, et al. **J Invest Dermatol** 1990 Jan; 94(1):58–64
Reversible inhibition of endocytosis in cultured neurons from the Drosophila temperature–sensitive mutant shibirets1. Masur SK, et al. **J Neurogenet** 1990 Apr;6(3):191–206
Antibody internalization by tumor cells: implications for tumor diagnosis and therapy. Mariani G, et al. **J Nucl Med Allied Sci** 1990 Jan–Mar;34(1):51–4 (44 ref.)
Endocytosis of horseradish peroxidase–poly–lysine conjugate by glomerular epithelial cells: an in vivo study. Wang Y, et al. **J Pathol** 1989 Oct;159(2):159–67
Endocytosis and processing of protein by isolated villus and crypt cells of the mouse small intestine. Heyman M, et al. **J Pediatr Gastroenterol Nutr** 1989 Aug;9(2):238–45 (28 ref.)
The binary toxin produced by Clostridium botulinum enters cells by receptor–mediated endocytosis to exert its pharmacologic effects. Simpson LI. **J Pharmacol Exp Ther** 1989 Dec;251(3):1223–8
Endocytosis of serum albumin–gold conjugates by microvascular endothelial cells in rat adrenal gland: regional differences between cortex and medulla. Bumbaširević V, et al. **J Submicrosc Cytol Pathol** 1990 Jan; 22(1):135–45
Light– and immunoelectron microscopic visualization of in vivo endocytosis of low density lipoprotein by hepatocytes and Kupffer cells in rat liver. Kleinherenbrink–Stins MF, et al. **Lab Invest** 1990 Jul;63(1):73–86
Affinity labeling of binding proteins for the study of endocytic pathways. Ji TH, et al. **Methods Cell Biol** 1989; 32:277–304 (83 ref.)
Low temperature–induced transport blocks as tools to manipulate membrane traffic. Kuismanen E, et al. **Methods Cell Biol** 1989;32:257–74 (42 ref.)
Quantitative evaluation of receptor–mediated endocytosis. Owensby DA, et al. **Methods Cell Biol** 1989;32:305–28 (28 ref.)
Control of coated–pit function by cytoplasmic pH. Sandvig K, et al. **Methods Cell Biol** 1989;32:365–82 (45 ref.)
Remodeling of glycoprotein oligosaccharides after endocytosis: a measure of transport into compartments of the secretory apparatus. Snider MD. **Methods Cell Biol** 1989;32:339–50 (25 ref.)
Evidence for clathrin mobilization during directed phagocytosis of Shigella flexneri by HEp2 cells. Clerc PL, et al. **Microb Pathog** 1989 Nov;7(5):329–36
Fluid–phase endocytosis by primary cultures of bovine brain microvessel endothelial cell monolayers. Guillot FL, et al. **Microvasc Res** 1990 Jan;39(1):1–14
Mechanisms of enveloped virus entry into cells. Kielian M, et al. **Mol Biol Med** 1990 Feb;7(1):17–31 (122 ref.)
Intracellular degradation by liver endothelial cells. Misquith S, et al. **Mol Cell Biochem** 1989 Nov 23–Dec 19; 91(1–2):63–74
Hyaluronic acid synthesis and gap junction endocytosis are necessary for normal expansion of the cumulus mass. Chen L, et al. **Mol Reprod Dev** 1990 Jul;26(3):236–47
Co–localization of molecules involved in antigen processing and presentation in an early endocytic compartment. Guagliardi LE, et al. **Nature** 1990 Jan 11;343(6254):133–9 (68 ref.)
Movement of internalized ligand–receptor complexes along a continuous endosomal reticulum [see comments] Hopkins CR, et al. **Nature** 1990 Jul 26;346(6282):335–9 Comment in: Nature 1990 Jul 26;346(6282):318–9.
Inhibition of endocytic vesicle fusion in vitro by the cell–cycle control protein kinase cdc2. Tuomikoski T, et al. **Nature** 1989 Dec 21–28;342(6252):942–5
Cell biology. Trawling for receptors [news; comment] Warren G. **Nature** 1990 Jul 26;346(6282):318–9 Comment on: Nature 1990 Jul 26;346(6282):335–9.
Receptor–mediated endocytosis of low–density lipoprotein by cultured human glomerular cells. Rayner HC, et al. **Nephron** 1990;55(3):292–9
Endocytosis of cationized ferritin by rat photoreceptors. Cotter JR. **Neurosci Lett** 1989 Nov 20;106(1–2):65–70
Microglia in the neurohypophysis associate with and endocytose terminal portions of neurosecretory neurons. Pow DV, et al. **Neuroscience** 1989;33(3):567–78
Acetylated low density lipoprotein endocytosis by human syncytiotrophoblast in culture. Malassine A, et al. **Placenta** 1990 Mar–Apr;11(2):191–204
100–kDa polypeptides in peripheral clathrin–coated vesicles are required for receptor–mediated endocytosis. Chin DJ, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9289–93
Salvage of glucosylceramide by recycling after internalization along the pathway of receptor–mediated endocytosis. Kok JW, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9896–900
Internalization of vasopressin analogs in kidney and smooth muscle cells: evidence for receptor–mediated endocytosis in cells with V2 or V1 receptors. Lutz W, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6507–11
Receptor–mediated endocytosis of transferrin–polycation conjugates: an efficient way to introduce DNA into hematopoietic cells. Zenke M, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3655–9
Endocytosis and phosphate transport in OK epithelial cells. Kempson SA, et al. **Renal Physiol Biochem** 1989 Sep–Dec; 12(5–6):359–64
Effects of a long–lasting hyperinsulinemia induced by insulin infusion on the subcellular distribution of liver insulin receptors in the rat. López S, et al. **Reprod Nutr Dev** 1989; 29(6):663–8
Depressed function of Kupffer cells in rats with CCl4–induced liver cirrhosis. Arii S, et al. **Res Exp Med (Berl)** 1990;190(3):173–82
Endocytosis mediated by monocyte and macrophage membrane lectins—application to antiviral drug targeting. Roche AC, et al. **Res Virol** 1990 Mar–Apr;141(2):243–9 (28 ref.)
Ligand–induced transformation by a noninternalizing epidermal growth factor receptor. Wells A, et al. **Science** 1990 Feb 23;247(4945):962–4
Intracellular pathways and mechanisms of sorting in receptor–mediated endocytosis. Shepherd VL. **Trends Pharmacol Sci** 1989 Nov;10(11):458–62 (31 ref.)
[Endocytosis and cytotoxin effect induced by the attachment of the glycolipoprotein of leptospires to vascular endothelial cell in culture] Bao L, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun;20(2):115–8 (Eng. Abstr.) **(Chi)**
[Kinetic analysis of hepatic transport of bioactive polypeptides based on receptor–mediated endocytosis: EGF as a model polypeptide] Sugiyama Y. **Seikagaku** 1990 Mar;62(3):184–92 **(Jpn)**
[Role of heparan sulfate proteoglycan for control of cell growth] Ishihara M, et al. **Tanpakushitsu Kakusan Koso** 1989 Jun;34(7):853–62 (45 ref.) **(Jpn)**
[Clathrin: its structure and role in intracellular transport] Yoshimura T, et al. **Tanpakushitsu Kakusan Koso** 1989 Oct; 34(13):1815–25 (110 ref.) **(Jpn)**
[Mathematical model of molecular transport and recycling of membrane receptors in a cell] Kuznetsov VA, et al. **Biofizika** 1990 Mar–Apr;35(2):297–301 (Eng. Abstr.) **(Rus)**
[Biochemical features and functional activity of the endocytic compartment in the liver cell] Enrich C, et al. **Rev Esp Fisiol** 1990 Mar;46(1):95–101 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Effect of sulfur dioxide on pulmonary macrophage endocytosis at rest and during exercise. Skornik WA, et al. **Am Rev Respir Dis** 1990 Sep;142(3):655–9
A rapid redistribution of the transferrin receptor to the cell surface of HL–60 cells and K562 cells upon treatment with dimethyl sulfoxide due to slowing of endocytosis. Vestal DJ, et al. **Arch Biochem Biophys** 1990 Jan;276(1):278–84
Influence of cholesterol oxides on endocytosis of cultured endothelial and smooth muscle cells. Peng SK, et al. **Artery** 1990;17(2):84–95

Testosterone interferes with the kinetics of endocytosis in the hamster seminal vesicle. Mata LR, et al. **Biol Cell** 1990; 68(3):195–203

Effects of mannose-6-phosphate on receptor-mediated endocytosis of insulin-like growth factor-II. Polychronakos C, et al. **Endocrinology** 1990 Oct; 127(4):1861–6

Internalization of IgE receptors on rat basophilic leukemic cells by phorbol ester. Comparison with endocytosis induced by receptor aggregation. Ra C, et al. **Eur J Immunol** 1989 Oct;19(10):1771–7

Effects of benzyl alcohol on transferrin and low density lipoprotein receptor mediated endocytosis in leukemic guinea pig B lymphocytes. Sainte-Marie J, et al. **FEBS Lett** 1990 Mar 12;262(1):13–6

Insulin-like growth factors I and II stimulate endocytosis but do not affect sorting of lysosomal enzymes in human fibroblasts. Braulke T, et al. **J Biol Chem** 1990 Apr 25; 265(12):6650–5

The effect of vanadate on receptor-mediated endocytosis of asialoorosomucoid in rat liver parenchymal cells. Kindberg GM, et al. **J Biol Chem** 1990 Jun 5;265(16):8999–9005

Distinct endocytotic pathways in epidermal growth factor-stimulated human carcinoma A431 cells [published erratum appears in J Cell Biol 1990 Mar;110(3):859] West MA, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2731–9

Effect of phenylarsine oxide on fluid phase endocytosis: further evidence for activation of the glucose transporter. Frost SC, et al. **J Cell Physiol** 1989 Dec;141(3):467–74

Amiloride inhibits constitutive internalization and increases the surface number of epidermal growth factor receptors in intact rat hepatocytes. Gladhaug IP, et al. **J Cell Physiol** 1990 Apr;143(1):188–95

Caffeine, an inhibitor of endocytosis in Dictyostelium discoideum amoebae. Gonzalez C, et al. **J Cell Physiol** 1990 Sep;144(3):408–15

Very high water permeability in vasopressin-induced endocytic vesicles from toad urinary bladder. Shi LB, et al. **J Gen Physiol** 1989 Dec;94(6):1101–15

Interferon treatment reduces endocytosis of virus and facultatively intracellular bacteria in various cell lines. Bukholm G, et al. **J Interferon Res** 1990 Feb;10(1):83–9

1,25-Dihydroxyvitamin D3-mediated vesicular calcium transport in intestine: dose-response studies. Nemere I, et al. **Mol Cell Endocrinol** 1989 Nov;67(1):47–53

The effect of tunicamycin and monensin on the association of Trypanosoma cruzi with resident macrophages. Souto-Padrón T, et al. **Parasitol Res** 1989;76(2):98–106

Visualization of adriamycin uptake and internalization by receptor-mediated endocytosis in mast cells. An ultrastructural study using adriamycin-colloidal gold complexes. Crivellato E, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:125–6

Effects of perhexiline maleate on asialo-orosomucoid receptor endocytosis and recycling in HTC cells. Shacoori V, et al. **Res Commun Chem Pathol Pharmacol** 1989 Oct; 66(1):45–55

Recovery of ethanol-induced impairments in receptor-mediated endocytosis of asialoorosomucoid in isolated rat hepatocytes. Sorrell MF, et al. **Trans Am Clin Climatol Assoc** 1988;100:163–70

IMMUNOLOGY

Distribution of class II major histocompatibility antigens in enterocytes of the rat jejunum and their association with organelles of the endocytic pathway. Mayrhofer G, et al. **Immunology** 1990 May;70(1):11–9

Antibodies to clathrin inhibit endocytosis but not recycling to the trans Golgi network in vitro. Draper RK, et al. **Science** 1990 Jun 22;248(4962):1539–41

PHYSIOLOGY

Effects of ethanol on hepatic protein trafficking: impairment of receptor-mediated endocytosis. Tuma DJ, et al. **Alcohol Alcohol** 1990;25(2–3):117–25 (52 ref.)

Transepithelial transport of immunoglobulins: a model of protein sorting and transcytosis [see comments] Breitfeld PP, et al. **Am J Respir Cell Mol Biol** 1989 Oct;1(4):257–62 (30 ref.) Comment in: Am J Respir Cell Mol Biol 1989 Oct;1(4):255.

Membrane traffic in endocytosis: insights from cell-free assays. Gruenberg J, et al. **Annu Rev Cell Biol** 1989; 5:453–81 (145 ref.)

A possible role for GTP-binding and ras-related proteins in endocytic trafficking in liver. Ali N, et al. **Biochem Soc Trans** 1990 Jun;18(3):458–9

Proteolytic processing in endosomal vesicles. Blum JS, et al. **Cold Spring Harb Symp Quant Biol** 1989;54 Pt 1:287–92 (34 ref.)

Stereological analysis of plasma membranes. Distribution of ligands on the cell surface components and membrane flow in endocytosis. de Paz P, et al. **Comput Methods Programs Biomed** 1990 Mar-Apr; 31(3–4):267–8

Adsorptive and fluid phase endocytosis by cultured rabbit corneal endothelium. Raphael B, et al. **Curr Eye Res** 1990 Mar;9(3):249–58

Internalization of surface anionic sites and phagosome-lysosome fusion during interaction of Toxoplasma gondii with macrophages. de Carvalho L, et al. **Eur J Cell Biol** 1990 Apr;51(2):211–9

Endosomes can undergo an ATP-dependent density increase in the absence of dense lysosomes. Roederer M, et al. **Eur J Cell Biol** 1990 Apr;51(2):229–34

Effect of acidic extracellular pH on the receptor-mediated endocytosis of peroxidase-antiperoxidase (PAP) immune complex in rat peritoneal macrophages. Kiss AL, et al. **Exp Cell Res** 1989 Oct;184(2):529–37

Cell-free systems to study vesicular transport along the secretory and endocytic pathways. Goda Y, et al. **FASEB J** 1989 Nov;3(13):2488–95 (41 ref.)

The liver and intracellular digestion: how liver cells eat! Yamazaki K, et al. **Hepatology** 1989 Nov;10(5):877–86 (112 ref.)

Fluid-phase transcytosis in the primate epididymis in vitro and in vivo. Yeung CH, et al. **Int J Androl** 1989 Oct; 12(5):384–94

Endocytosis and Na+/solute cotransport in renal epithelial cells. Kempson SA, et al. **J Biol Chem** 1989 Nov 5; 264(31):18451–6

Separate endocytic pathways of kinase-defective and -active EGF receptor mutants expressed in same cells. Honegger AM, et al. **J Cell Biol** 1990 May;110(5):1541–8

Endocytic pathways in polarized Caco-2 cells: identification of an endosomal compartment accessible from both apical and basolateral surfaces. Hughson EJ, et al. **J Cell Biol** 1990 Feb;110(2):337–48

Role of the human transferrin receptor cytoplasmic domain in endocytosis: localization of a specific signal sequence for internalization. Jing SQ, et al. **J Cell Biol** 1990 Feb; 110(2):283–94

Kinetics of insulin internalization and processing in adipocytes: effects of insulin concentration. Jochen A, et al. **J Cell Physiol** 1989 Dec;141(3):527–34

Subfractionation of the endocytic pathway: isolation of compartments involved in the processing of internalised epidermal growth factor-receptor complexes. Futter CE, et al. **J Cell Sci** 1989 Dec;94 (Pt 4):685–94

Characterization of the cation-independent mannose 6-phosphate receptor-enriched prelysosomal compartment in NRK cells. Griffiths G, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):441–61

Plasticity of the tubular lysosomal compartment in macrophages. Knapp PE, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):433–9

Endocytosis in odontoclasts and osteoclasts using microperoxidase as a tracer. Tanaka T, et al. **J Dent Res** 1990 Mar;69(3):883–9

Hepatocellular processing of endocytosed proteins. Burwen SJ, et al. **J Electron Microsc Tech** 1990 Feb;14(2):140–51 (93 ref.)

Fluid-phase endocytosis by intrahepatic bile duct epithelial cells isolated from normal rat liver. Ishii M, et al. **J Histochem Cytochem** 1990 Apr;38(4):515–24

Fibronectin- and laminin-mediated endocytic activity in the parasitic protozoa Trichomonas vaginalis and Tritrichomonas foetus. Benchimol M, et al. **J Submicrosc Cytol Pathol** 1990 Jan;22(1):39–45

Endocytosis of low density lipoproteins in human endothelial cells: typical morphological aspects of the high affinity receptor-mediated pathway as revealed by serial sections and acid phosphatase cytochemistry. Poumay Y, et al. **J Submicrosc Cytol Pathol** 1989 Oct;21(4):627–39

Increase of poly(L-lysine) uptake but not fluid phase endocytosis in neuraminidase pretreated Madin-Darby canine kidney (MDCK) cells. Persiani S, et al. **Life Sci** 1989;45(26):2605–10

Endocytotic processes in the differentiable intestinal cell line HT29. Huet C, et al. **Prog Clin Biol Res** 1990;343:213–35 (57 ref.)

Coated pits and vesicles transfer plasma components to platelet granules. Behnke O. **Thromb Haemost** 1989 Sep 29;62(2):718–22

Receptor-mediated endocytosis of tissue-type plasminogen activator (t-PA) by liver cells. Rijken DC, et al. **Thromb Res Suppl** 1990;10:63–71 (31 ref.)

[Characterization of proton pump and osmotic water transport in endocytic vesicles from rat kidney proximal tubule] Shi LB, et al. **Sheng Li Hsueh Pao** 1990 Apr; 42(2):105–13 (Eng. Abstr.) **(Chi)**

[Endocytosis of lipoproteins by the liver and their intracellular transport in comparison with other ligands] Windler E, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:39–41 (16 ref.) **(Ger)**

ENDODEOXYRIBONUCLEASES

A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AP sites and thymine glycols from DNA. Lin JJ, et al. **Biochemistry** 1989 Oct 3; 28(20):7979–84

[Obtaining unidirectional deletions in a plasmid using a DNA-"protector" and Bal31 exonuclease] Nurminskiĭ DI, et al. **Bioorg Khim** 1989 Aug;15(8):1137–9 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Low concentrations of acridine dimers inhibit micrococcus AP endonuclease through interaction with apurinic sites in DNA. Malvy C, et al. **Chem Biol Interact** 1990; 73(2–3):249–60

BLOOD

[Changes in Ca, Mg-dependent endonuclease of DNA in isolated nuclei of human lymphocytes in lymphoproliferative diseases] Tkacheva TI, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):543–6 (Eng. Abstr.) **(Rus)**

GENETICS

Site-directed mutagenesis of the T4 endonuclease V gene: the role of arginine-3 in the target search. Dowd DR, et al. **Biochemistry** 1989 Oct 31;28(22):8699–705

In vitro and in vivo activities of T4 endonuclease V mutants altered in the C-terminal aromatic region. Ishida M, et al. **Biochemistry** 1990 Apr 24;29(16):3817–21

A site-specific endonuclease and co-conversion of flanking exons associated with the mobile td intron of phage T4. Bell-Pedersen D, et al. **Gene** 1989 Oct 15;82(1):119–26

soxR, a locus governing a superoxide response regulon in Escherichia coli K-12. Tsaneva IR, et al. **J Bacteriol** 1990 Aug;172(8):4197–205

Genetic and structural characterization of endA. A membrane-bound nuclease required for transformation of Streptococcus pneumoniae. Puyet A, et al. **J Mol Biol** 1990 Jun 20;213(4):727–38

Characterization of I-Ppo, an intron-encoded endonuclease that mediates homing of a group I intron in the ribosomal DNA of Physarum polycephalum. Muscarella DE, et al. **Mol Cell Biol** 1990 Jul;10(7):3386–96

Apurinic endonuclease activity from wild-type and repair-deficient mei-9 Drosophila ovaries. Venugopal S, et al. **Mol Gen Genet** 1990 May;221(3):421–6

Serratia marcescens rpr gene sensitizes Escherichia coli wild-type, xth, and nfo strains to methyl methanesulphonate. Murphy KE, et al. **Mol Microbiol** 1990 Apr;4(4):651–5

MutY, an adenine glycosylase active on G-A mispairs, has homology to endonuclease III. Michaels ML, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3841–5

Positive control of a global antioxidant defense regulon activated by superoxide-generating agents in Escherichia coli. Greenberg JT, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6181–5

Yeast structural gene (APN1) for the major apurinic endonuclease: homology to Escherichia coli endonuclease IV. Popoff SC, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(11):4193–7

Site-directed mutagenesis of the T4 endonuclease V gene: mutations which enhance enzyme specific activity at low salt concentrations. Lloyd RS, et al. **Proteins** 1989; 6(2):128–38

ISOLATION & PURIFICATION

Reassociation of deoxyribonuclease II with the lysosomal membrane isolated from porcine spleen. Chang HC, et al. **Arch Biochem Biophys** 1990 Aug 1;280(2):320–4

Purification and characterization of HeLa endonuclease R. A G-specific mammalian endonuclease. Gottlieb J, et al. **J Biol Chem** 1990 Jul 5;265(19):10836–41

[Isolation of Ca2+, Mg2+-dependent nuclease from calf thymus chromatin] Nikonova LV, et al. **Biokhimiia** 1989 Oct;54(10):1709–18 (Eng. Abstr.) **(Rus)**

METABOLISM

Precursor-product relationship of larger to smaller molecular forms of the BAL 31 nuclease from Alteromonas espejiana: preferential removal of duplex exonuclease relative to endonuclease activity by proteolysis. Hauser CR, et al. **Arch Biochem Biophys** 1990 Feb 1;276(2):451–9

UV-induced pyrimidine hydrates in DNA are repaired by bacterial and mammalian DNA glycosylase activities. Boorstein RJ, et al. **Biochemistry** 1989 Jul 25;28(15):6164–70

Bleomycin-treated DNA is specifically cleaved only by endonuclease IV in E. coli. Hagensee ME, et al. **Biochim Biophys Acta** 1990 Jan 30;1048(1):19–23

Biochemical characteristics of endonuclease activity within the nucleotidyl DNA excision repair pathway of permeable human fibroblasts. Kaufmann WK, et al. **Carcinogenesis** 1990 Jan;11(1):15–9

Increased uracil-DNA glycosylase, AP-DNA binding protein and deoxyribonuclease activities in tumor and SV40-transformed cell lines of human origin. Kuhnlein U, et al. **Carcinogenesis** 1990 Jan;11(1):117–21

Comparative survival of aminobiphenyl- and aminofluorene-substituted plasmid DNA in Escherichia coli Uvr endonuclease deficient strains. Tamura N, et al. **Carcinogenesis** 1990 Apr;11(4):535–40

Enzymatic formation and resolution of Holliday junctions in vitro. Müller B, et al. **Cell** 1990 Jan 26;60(2):329–36

Apurinic endonuclease activity remains constant during early Drosophila development. Margulies L, et al. **Cell Biol Toxicol** 1984 Oct;1(1):127–43

Cruciform cutting endonucleases from Saccharomyces cerevisiae and phage T4 show conserved reactions with branched DNAs. Jensch F, et al. **EMBO J** 1989 Dec 20; 8(13):4325–34

Developmental expression of Ca++/Mg++-dependent endonuclease activity in rat granulosa and luteal cells. Zeleznik AJ, et al. **Endocrinology** 1989 Oct;125(4):2218–20

Effect of divalent and monovalent cations on calf thymus PCNA-independent DNA polymerase delta and its

3'——5' exonuclease. Focher F, et al. **FEBS Lett** 1990 Jan 1;259(2):349–52
The Escherichia coli MutH protein is not the repressor of the bacteriophage Mu mom operon. Hattman S. **Gene** 1989 Jul 15;79(2):381–3
Biological significance of facilitated diffusion in protein–DNA interactions. Applications to T4 endonuclease V–initiated DNA repair. Dowd DR, et al. **J Biol Chem** 1990 Feb 25;265(6):3424–31
Substrate specificity of HeLa endonuclease R. A G–specific mammalian endonuclease. Gottlieb J, et al. **J Biol Chem** 1990 Jul 5;265(19):10842–50
Modulation of the DNA scanning activity of the Micrococcus luteus UV endonuclease. Hamilton RW, et al. **J Biol Chem** 1989 Oct 15;264(29):17422–7
DNA base composition determines the specificity of UvrABC endonuclease incision of a psoralen cross–link. Jones BK, et al. **J Biol Chem** 1990 Feb 25;265(6):3489–96
Resolution of Holliday junction analogs by T4 endonuclease VII can be directed by substrate structure. Mueller JE, et al. **J Biol Chem** 1990 Aug 15;265(23):13918–24
Interaction of a four–way junction in DNA with T4 endonuclease VII. Parsons CA, et al. **J Biol Chem** 1990 Jun 5;265(16):9285–9
UvrABC incision of N–methylmitomycin A–DNA monoadducts and cross–links. Pu WT, et al. **J Biol Chem** 1989 Dec 5;264(34):20697–704
Biological consequences of a reduction in the non–target DNA scanning capacity of a DNA repair enzyme. Dowd DR, et al. **J Mol Biol** 1989 Aug 20;208(4):701–7
Cleavage specificity of bacteriophage T4 endonuclease VII and bacteriophage T7 endonuclease I on synthetic branch migratable Holliday junctions. Picksley SM, et al. **J Mol Biol** 1990 Apr 20;212(4):723–35
In vivo analysis of the Saccharomyces cerevisiae HO nuclease recognition site by site–directed mutagenesis. Nickoloff JA, et al. **Mol Cell Biol** 1990 Mar;10(3):1174–9
A molecular analysis of terminase cuts in headful packaging of Salmonella phage P22. Schmieger H, et al. **Mol Gen Genet** 1990 Apr;221(2):199–202
Differential cell cycle modulation of human DNA glycosylases against oxidized pyrimidines. Ganguly T, et al. **Mutat Res** 1990 Mar;235(2):137–46
DNA repair endonuclease activity during synchronous growth of diploid human fibroblasts. Kaufmann WK, et al. **Mutat Res** 1990 Jul;236(1):107–17
UvrABC nuclease complex repairs thymine glycol, an oxidative DNA base damage. Kow YW, et al. **Mutat Res** 1990 Mar;235(2):147–56
9–amino–ellipticine inhibits the apurinic site–dependent base excision–repair pathway. Lefrançois M, et al. **Mutat Res** 1990 Jul;236(1):9–17
Chromatin–associated DNA endonucleases from xeroderma pigmentosum cells are defective in interaction with damaged nucleosomal DNA. Parrish DD, et al. **Mutat Res** 1990 Mar;235(2):65–80
Intron mobility in phage T4 is dependent upon a distinctive class of endonucleases and independent of DNA sequences encoding the intron core: mechanistic and evolutionary implications. Bell–Pedersen D, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3763–70
Excision of cytosine hydrates from Z–DNA. Duker NJ, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2007–10
Complementation of the xeroderma pigmentosum DNA repair synthesis defect with Escherichia coli UvrABC proteins in a cell–free system. Hansson J, et al. **Nucleic Acids Res** 1990 Jan 11;18(1):35–40
Analysis of class II (hydrolytic) and class I (beta–lyase) apurinic/apyrimidinic endonucleases with a synthetic DNA substrate. Levin JD, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5069–75
The repair patch of E. coli (A)BC excinuclease. Sibghat–Ullah, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5051–3
Mammalian mitochondrial endonuclease activities specific for ultraviolet–irradiated DNA. Tomkinson AE, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):929–35
The UvrABC endonuclease of Escherichia coli. Grossman L, et al. **Photochem Photobiol** 1990 Jun;51(6):749–55 (40 ref.)
Acetylaminofluorene bound to different guanines of the sequence –GGCGCC– is excised with different efficiencies by the UvrABC excision nuclease in a pattern not correlated to the potency of mutation induction. Seeberg E, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):191–4
Mismatch–specific thymine DNA glycosylase and DNA polymerase beta mediate the correction of G.T mispairs in nuclear extracts from human cells. Wiebauer K, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5842–5
Structure of the bacteriophage lambda cohesive end site: bent DNA on both sides of the site, cosN, at which terminase introduces nicks during chromosome maturation. Yeo A, et al. **Virology** 1990 Jan;174(1):329–34

PHARMACOKINETICS

Substrate overlap and functional competition between human nucleotide excision repair and Escherichia coli photolyase and (a)BC excision nuclease. Sibghat–Ullah, et al. **Biochemistry** 1990 Jun 19;29(24):5711–8

PHARMACOLOGY

Mechanism of exonuclease action of BAL 31 nuclease. Zhou XG, et al. **Biochim Biophys Acta** 1990 May 24;1049(1):83–91

PHYSIOLOGY

Bacteriophage lambda DNA: the beginning of the end. Becker A, et al. **J Bacteriol** 1990 Jun;172(6):2819–24 (41 ref.)
The enzymology of apurinic/apyrimidinic endonucleases. Doetsch PW, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):173–201 (194 ref.)
The UvrABC endonuclease system of Escherichia coli—a view from Baltimore. Grossman L, et al. **Mutat Res** 1990 Sep–Nov;236(2–3):213–21 (40 ref.)
Structure and function of the (A)BC excinuclease of Escherichia coli. Selby CP, et al. **Mutat Res** 1990 Sep–Nov; 236(2–3):203–11 (60 ref.)

ENDODERM

CYTOLOGY

SEM characterization of a cellular layer separating blood vessels from endoderm in the quail embryo. Reiss KZ, et al. **Anat Rec** 1989 Oct;225(2):165–75
Intestinal mesenchyme provokes differentiation of intestinal endocrine cells in gizzard endoderm. Andrew A, et al. **Differentiation** 1990 Jun;43(3):165–74
Gene expression in visceral endoderm: a comparison of mutant and wild–type F9 embryonal carcinoma cell differentiation. Rogers MB, et al. **J Cell Biol** 1990 May; 110(5):1767–77
Lectin binding of F9 embryonal carcinoma cells: evidence for population heterogeneity and developmentally regulated high–Mr cell surface proteins. Tienari J, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):561–8
Origin of cells giving rise to mesoderm and endoderm in chick embryo. Stern CD, et al. **Nature** 1990 Jan 18; 343(6255):273–5

DRUG EFFECTS

Residual proliferative capacity in F9 teratocarcinoma stem cell cultures treated with alpha–difluoromethylornithine, an inducer of parietal endoderm differentiation. Wallon M, et al. **Cancer Lett** 1990 Apr 20;50(2):103–7

METABOLISM

Plasminogen activator expression in F9 teratocarcinoma embryoid bodies and their endoderm derivatives. Sabbag KR, et al. **Development** 1989 May;106(1):195–201
XK endo B is preferentially expressed in several induced embryonic tissues during the development of Xenopus laevis. LaFlamme SE, et al. **Differentiation** 1990 Mar; 43(1):1–9
Glycosaminoglycan expression in intestinal epithelial skin–fibroblastic cell cocultures. Fibroblastic cell–mediated effects of glucocorticoids. Bouziges F, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):679–85

PATHOLOGY

Inhibitory effects of transforming growth factor–beta on laminin production and growth exhibited by endoderm–like cells derived from embryonal carcinoma cells. Kelly D, et al. **Differentiation** 1989 Jul;41(1):34–41
[A strategy for immortalizing lines committed to endoderm, neuroectoderm or mesoderm from mouse teratocarcinoma] Buc–Caron MH, et al. **Reprod Nutr Dev** 1990;30(3):309–16 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Is extraembryonic angiogenesis in the chick embryo controlled by the endoderm? A morphology study. Flamme I. **Anat Embryol (Berl)** 1989;180(3):259–72
Differential localization of villin and fimbrin during development of the mouse visceral endoderm and intestinal epithelium. Ezzell RM, et al. **Development** 1989 Jun; 106(2):407–19
XlHbox 8: a novel Xenopus homeo protein restricted to a narrow band of endoderm. Wright CV, et al. **Development** 1989 Apr;105(4):787–94

ENDODERMAL SINUS TUMOR see **MESONEPHROMA**

ENDODERMOPHYTON see **TRICHOPHYTON**

ENDODONTIC ENDOSSEOUS IMPLANTATION see **DENTAL IMPLANTATION, ENDOSSEOUS, ENDODONTIC**

ENDODONTIC STABILIZATION see **DENTAL IMPLANTATION, ENDOSSEOUS, ENDODONTIC**

ENDODONTICS

see related
DENTAL PULP DISEASES
DENTAL PULP TEST
TOOTH DISCOLORATION

[The history of medical engineering instruments development in endodontics] Sunada I. **Kokubyo Gakkai Zasshi** 1990 Jun; 57(2):273–80 (Eng. Abstr.) **(Jpn)**

EDUCATION

Reasonable remuneration? [letter] Newman Brown PJ. **Br Dent J** 1990 Mar 10;168(5):184–5

TRENDS

Restoring the oral health of the child. Davis MJ. **ASDC J Dent Child** 1990 Jan–Feb;57(1):56–65 (100 ref.)
Endodontics, past, present, and future? Christie WH. **J Can Dent Assoc** 1990 Jun;56(6):503–7 (44 ref.)

ENDOLIMAX see under **AMOEBA**

ENDOLYMPH see under **LABYRINTHINE FLUIDS**

ENDOLYMPHATIC DUCT see under **VESTIBULE**

ENDOLYMPHATIC SAC see under **VESTIBULE**

ENDOLYMPHATIC SHUNT

Austin endolymph dispersement shunt surgery for Menière's disease. Huang TS, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:99–103
Effects of endolymphatic mastoid shunt operation for patients with Menière's disease. Matsuoka I, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:105–16
Placebo effect in surgery for Menière's disease: nine–year follow–up. Bretlau P, et al. **Am J Otol** 1989 Jul;10(4):259–61
Endolymphatic mastoid shunt for Menière's disease: do results change over time? Goldenberg RA, et al. **Laryngoscope** 1990 Feb;100(2 Pt 1):141–5

METHODS

The surgical procedures and evaluation of two modifications of endolymphatic sac surgery: the epidural shunt and vein graft drainage. Futaki T, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:117–27

ENDOMETRIAL CYCLE see **MENSTRUAL CYCLE**

ENDOMETRIAL HYPERPLASIA

Pathophysiology and management of endometrial hyperplasia and carcinoma [see comments] Fu YS, et al. **West J Med** 1990 Jul;153(1):50–61 (125 ref.) Comment in: West J Med 1990 Jul;153(1):78–9.

CHEMICALLY INDUCED

Endometrial hyperplasia in an oophorectomized woman receiving tamoxifen therapy. Case report. Cross SS, et al. **Br J Obstet Gynaecol** 1990 Feb;97(2):190–2
Endometrial hyperplasia in an oophorectomized woman receiving tamoxifen therapy [letter] Neven P. **Br J Obstet Gynaecol** 1990 Jun;97(6):551–2

COMPLICATIONS

[Post–menopausal metrorrhagia: endometrial ultrasonic aspects] Longo M, et al. **G Ital Oncol** 1990 Jan–Jun; 10(1–2):19–22 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

New possibilities of recognizing early endometrial changes. Patai K, et al. **Acta Chir Hung** 1989;30(4):333–9
Endometrial hyperplasia: value of endometrial thickness in ultrasonographic diagnosis and clinical significance. Malpani A, et al. **JCU** 1990 Mar–Apr;18(3):173–7
[The role of echography and hysteroscopy in detection of the causes of uterine hemorrhage in the postmenopausal period] Davydov SN, et al. **Akush Ginekol (Mosk)** 1989 Oct;(10):35–7 (Eng. Abstr.) **(Rus)**
[Systemic approach to the diagnosis of combined benign hyperplastic uterine diseases in patients of reproductive age] Uvarova EB. **Akush Ginekol (Mosk)** 1989 Oct; (10):65–70 **(Rus)**

DRUG THERAPY

Clinical effects of danazol on endometrial hyperplasia in menopausal and postmenopausal women. Soh E, et al. **Cancer** 1990 Sep 1;66(5):983–8
[Post–menopausal metrorrhagia. Use of danazol in endometrial hyperplasia] Baldoni A, et al. **Minerva Ginecol** 1989 Dec;41(12):603–7 (Eng. Abstr.) **(Ita)**
[The mechanism of the therapeutic effect of norethisterone in hyperplastic diseases of the endo– and myometrium in women of reproductive age] Vikhliaeva EM, et al. **Vopr Onkol** 1990;36(6):683–9 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

[Fractions of human neoplasms and mice–LDH virus as markers of human cancer] Jandová A, et al. **Arch Gynecol Obstet** 1989;245(1–4):476–8 **(Ger)**

EPIDEMIOLOGY

A clinical and epidemiological study of 245 postmenopausal metrorrhagia patients. Alberico S, et al. **Clin Exp Obstet Gynecol** 1989;16(4):113–21

[Endometrial hyperplasia in the province of Trieste] Di Bonito L, et al. **Minerva Ginecol** 1989 Dec;41(12):615–8 (Eng. Abstr.) **(Ita)**

GENETICS

[Use of genetic analysis methods in examining patients with endometrial cancer] Polishchuk LZ, et al. **Akush Ginekol (Mosk)** 1990 Feb;(2):49–52 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

CA 19–9, CA 125 and CEA in the endometrial mucosa during the menstrual cycle, in atypical hyperplasia and endometrial carcinoma. Neunteufel W, et al. **Cancer Lett** 1989 Nov 15;48(1):77–83

[Detection of carcinoembryonic antigen of endometrial carcinoma and hyperplasia] Shen JB. **Chung Hua Fu Chan Ko Tsa Chih** 1990 Jan;25(1):29–30, 62 (Eng. Abstr.) **(Chi)**

METABOLISM

Immunocytochemical assay of progesterone receptors in paraffin-embedded specimens of endometrial carcinoma and hyperplasia: a preliminary evaluation. Brustein S, et al. **Mod Pathol** 1989 Sep;2(5):449–55

PATHOLOGY

Nucleolar organiser regions in normal, hyperplastic, and neoplastic endometria. Wilkinson N, et al. **Int J Gynecol Pathol** 1990;9(1):55–9

Nucleolar organiser regions in endometrial hyperplasia and neoplasia. Coumbe A, et al. **Pathol Res Pract** 1990 Apr; 186(2):254–9

[A case of granulosa-cell tumor of the ovary combined with leiomyoma, an endometrial polyp and glandular hyperplasia of the endometrium] Grozdanov G, et al. **Akush Ginekol (Sofiia)** 1989;28(3):75–6 **(Bul)**

[Immunohistochemical receptor findings in the endometrium and therapeutic consequences in endogenous and exogenous functional disorders and cancer] Lang G, et al. **Geburtshilfe Frauenheilkd** 1989 Dec;49(12):1044–9 (Eng. Abstr.) **(Ger)**

[Precancerous conditions and cancer of the endometrium] Engelhardt C, et al. **Ther Umsch** 1989 Dec;46(12):864–79 (67 ref.) (Eng. Abstr.) **(Ger)**

[Cystic microglandular hyperplasia of the cervix uteri. Presentation of 2 clinical cases] Padovani G, et al. **Minerva Ginecol** 1989 Sep;41(9):475–8 (Eng. Abstr.) **(Ita)**

THERAPY

Endometrial hyperplasia: a prospective randomized study of histopathology, tissue steroid receptors and plasma steroids after abrasio, with or without high dose gestagen treatment. Lindahl B, et al. **Anticancer Res** 1990 May–Jun; 10(3):725–30

[Clinico-pathogenetic substantiation of medical tactics in combined benign hyperplastic processes in the uterus of patients of reproductive age] Uvarova EV. **Akush Ginekol (Mosk)** 1989 Jul;(7):19–24 (Eng. Abstr.) **(Rus)**

ENDOMETRIOSIS

New trends in diagnosis and treatment of endometriosis. Proceedings of a meeting. Rio de Janeiro, Brazil, 27 October 1988. **Acta Obstet Gynecol Scand Suppl** 1989; 150:1–46

Pathogenesis, diagnosis and treatment of genital endometriosis. Mettler L. **Acta Obstet Gynecol Scand Suppl** 1989;150:31–7

Clinical therapeutics of endometriosis, Part 1. Rumore MM, et al. **Am Pharm** 1989 Sep;NS29(9):49–54 (22 ref.)

Endometriosis of the round ligament. Felding C, et al. **Ann Chir Gynaecol** 1989;78(4):327–8

Adenomyoma of the common bile duct. Legakis NC, et al. **Arch Surg** 1990 Apr;125(4):543

Endometrioid carcinoma of the ovary: a retrospective study [letter; comment] Piura B. **Br J Obstet Gynaecol** 1989 Jun; 96(6):750–1 Comment on: Br J Obstet Gynaecol 1988 Nov;95(11):1165–9.

Current concepts in endometriosis. Proceedings of the Second International Symposium on Endometriosis. Houston, Texas, May 1–3, 1989. **Prog Clin Biol Res** 1990; 323:1–458

[Endometriosis. Report and clinical contributions] Giacomelli L, et al. **Minerva Ginecol** 1990 Jan–Feb;42(1–2):25–9 (17 ref.) (Eng. Abstr.) **(Ita)**

[Bladder endometriosis: review and presentation of 2 new cases] Silmi Moyano A, et al. **Rev Clin Esp** 1990 Feb; 186(2):74–81 (38 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Lymphocyte activity in the presence of peritoneal fluid from fertile women and infertile women with and without endometriosis. Hill JA, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):861–4

Elevated serum levels of endometrial secretory protein PP14 in patients with advanced endometriosis. Suppression by treatment with danazol and high-dose medroxyprogesterone acetate. Telimaa S, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):866–71

Serum CA-125 levels in women with endometriosis. Fraser IS, et al. **Aust N Z J Obstet Gynaecol** 1989 Nov; 29(4):416–20

What is the source of elevated serum levels of CA 125 in patients with endometriosis? Fedele L, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Dec;33(3):247–52

Comparison between the effects of nafarelin and danazol on serum lipids and lipoproteins in patients with endometriosis. Välimäki M, et al. **J Clin Endocrinol Metab** 1989 Dec; 69(6):1097–103

Vitamin D metabolites—relation to age, menopause and endometriosis. Hartwell D, et al. **Scand J Clin Lab Invest** 1990 Apr;50(2):115–21

CHEMICALLY INDUCED

Tamoxifen and endometriosis. Case report. Buckley CH. **Br J Obstet Gynaecol** 1990 Jul;97(7):645–6

Exacerbation of adenomyosis symptomatology by estrogen–progestin therapy: a case report and histopathological observations. Falk RJ, et al. **Int J Fertil** 1989 Nov–Dec;34(6):386–9

Endometriosis and clomiphene citrate [letter] Svigos JM. **Lancet** 1990 Feb 24;335(8687):475

CLASSIFICATION

American Fertility Society classification of endometriosis—the last word? [letter; comment] Redwine DB. **Fertil Steril** 1990 Jul;54(1):180–1 Comment on: Fertil Steril 1990 Jan;53(1):155–8.

Current classification of endometriosis: practical concerns. Audebert AJ. **Prog Clin Biol Res** 1990;323:123–36 (29 ref.)

COMPLICATIONS

I.V.F. treatment following danazol priming in a patient with severe endometriosis. Fisch B, et al. **Acta Obstet Gynecol Scand** 1989;68(7):661–2

Endometriosis and infertility. Rönnberg L. **Ann Med** 1990 Apr;22(2):91–6 (87 ref.)

The association of anovulation and endometriosis in the infertile female. Arumugam K, et al. **Aust N Z J Obstet Gynaecol** 1989 Aug;29(3 (Pt 2)):350–1

Cyclical rectal bleeding in colorectal endometriosis. Levitt MD, et al. **Aust N Z J Surg** 1989 Dec;59(12):941–3

Minimal/mild endometriosis and infertility [letter; comment] Mahmood TA, et al. **Br J Obstet Gynaecol** 1989 Oct; 96(10):1248–9 Comment on: Br J Obstet Gynaecol 1989 Apr;96(4):454–60.

Bilateral ureteric obstruction secondary to endometriosis. Esen T, et al. **Br J Urol** 1990 Jul;66(1):98–9

Bilateral ureteric obstruction due to endometriosis resulting in unilateral loss of renal function. Miller MA, et al. **Br J Urol** 1990 Apr;65(4):421

Catamenial pleural pain. Horsfield K. **Eur Respir J** 1989 Nov; 2(10):1013–4

Supernumerary ovary in association with endometriosis. Navarro C, et al. **Fertil Steril** 1990 Jul;54(1):164–5

Endometrioid stromal sarcomas arising from ovarian and extraovarian endometriosis: report of two cases and review of the literature. Baiocchi G, et al. **Gynecol Oncol** 1990 Jan;36(1):147–51 (29 ref.)

Mucinous metaplasia in endometriosis of the bladder. New NE, et al. **Histopathology** 1990 Mar;16(3):307–8

The value of pre-treatment with gonadotrophin releasing hormone (GnRH) analogue in IVF–ET therapy of severe endometriosis. Dicker D, et al. **Hum Reprod** 1990 May; 5(4):418–20

In-vitro fertilization and embryo transfer in patients with endometriosis: impact of a gonadotrophin releasing hormone agonist. Oehninger S, et al. **Hum Reprod** 1989 Jul;4(5):541–4

The influence of infertility etiology on the outcome of IVF–ET and GIFT treatments. Yovich JL, et al. **Int J Fertil** 1990 Jan–Feb;35(1):26–33

Elevated peritoneal fluid luteinizing hormone and prolactin concentrations in infertile women with endometriosis. Chew PC, et al. **Int J Gynaecol Obstet** 1990 Sep;33(1):35–9

Menses due to endometriosis in a woman following hysterectomy. Bouier A, et al. **J Am Osteopath Assoc** 1990 Mar;90(3):259–63

Catamenial pneumothorax. A case report. Dattola RK, et al. **J Reprod Med** 1990 Jul;35(7):734–6

Perineal endometriosis. A case report. Pollack R, et al. **J Reprod Med** 1990 Feb;35(2):109–12 (21 ref.)

Laparoscopy in the diagnosis of chronic pelvic pain in adolescent women. Vercellini P, et al. **J Reprod Med** 1989 Oct;34(10):827–30

Intestinal endometriosis and its complications: case report and review. Cuzzo-Kriner MR. **Mt Sinai J Med** 1989 Sep; 56(4):334–7 (18 ref.)

Coexistence of polycystic ovary syndrome and pelvic endometriosis. Singh KB, et al. **Obstet Gynecol** 1989 Oct; 74(4):650–2

Endometriosis and infertility: the mechanisms involved. Halme J, et al. **Prog Clin Biol Res** 1990;323:157–78 (87 ref.)

Catamenial haemoptysis from endobronchial endometriosis—a case report and review of previously reported cases. Bateman ED, et al. **Respir Med** 1990 Mar; 84(2):157–61 (18 ref.)

[The proportion of endometriosis in a group of sterile women] Hanzelka Z, et al. **Cesk Gynekol** 1990 Apr;55(3):194–7 **(Cze)**

[Adenomyoma of the distal common bile duct. An uncommon cause of stenosis of the extrahepatic bile duct] Thomas P, et al. **Gastroenterol Clin Biol** 1990;14(3):283–5 (15 ref.) (Eng. Abstr.) **(Fre)**

[Acute peritonitis complicating intestinal endometriosis. A case report with comments] Salman H, et al. **J Chir (Paris)** 1989 Oct;126(10):552–5 (Eng. Abstr.) **(Fre)**

[Menstrual pneumothorax and pelvic endometriosis. Discussion of pathogenesis] Breton JL, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990;19(1):61–3 (Eng. Abstr.) **(Fre)**

[Adenocarcinoma of the sigmoid developing upon endometriosis (letter)] Li V, et al. **Presse Med** 1989 Dec 16–23;18(42):2068 **(Fre)**

[Catamenial hemoptysis caused by bronchopulmonary endometriosis] Laraqui CH, et al. **Rev Mal Respir** 1989; 6(4):377–80 (Eng. Abstr.) **(Fre)**

[Effects of ovarian and peritoneal endometriosis on fertility. Experimental study] Formelli G, et al. **Boll Soc Ital Biol Sper** 1990 Feb;66(2):129–34 (Eng. Abstr.) **(Ita)**

[Endometriosis on a cesarean cicatrix. Apropos of 3 cases] Sartori CA, et al. **Minerva Chir** 1989 Sep 30;44(18):2043–5 (Eng. Abstr.) **(Ita)**

[A case of right ureteral stricture due to endometriosis in the pouch of Douglas] Takamura C, et al. **Hinyokika Kiyo** 1989 Jul;35(7):1201–5 (Eng. Abstr.) **(Jpn)**

[State of the urinary tract in patients with endometriosis] Baskakov VP, et al. **Akush Ginekol (Mosk)** 1990 Apr; (4):69–72 **(Rus)**

[Diagnosis and treatment of ureteral stricture in gynecologic pathology] Krasnopol'skiĭ VI, et al. **Akush Ginekol (Mosk)** 1990 Feb;(2):52–4 (Eng. Abstr.) **(Rus)**

[Diagnostic laparoscopy. Experience with 1,287 cases] Roos A, et al. **Rev Chil Obstet Ginecol** 1988;53(1):35–42 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Diagnosis and clinical presentation of endometriosis. Adamson GD. **Am J Obstet Gynecol** 1990 Feb;162(2):568–9

Peritoneal blood painting: an aid in the diagnosis of endometriosis. Redwine DB. **Am J Obstet Gynecol** 1989 Oct;161(4):865–6

Endometriosis of the colon. Its diagnosis and management. Collin GR, et al. **Am Surg** 1990 May;56(5):275–9

Diagnostic studies in catamenial hemoptysis [editorial] Guidry GG, et al. **Chest** 1990 Aug;98(2):260–1

MRI findings of sciatic endometriosis. Moeser P, et al. **Clin Imaging** 1990 Mar;14(1):64–6

Differential diagnosis of ovarian cancer, benign ovarian tumor and endometriosis by a combination assay of serum sialyl SSEA-1 antigen and CA125 levels. Iwanari O, et al. **Gynecol Obstet Invest** 1990;29(1):71–4

Abnormally high values of CA 125 and CA 19–9 in women with benign tumors. Nagata H, et al. **Gynecol Obstet Invest** 1989;28(3):165–8

Adenomyoma of the stomach presenting as an antral polyp. Yun-Zhong H, et al. **Histopathology** 1990 Jan;16(1):99–101

Endometriosis—current concepts. Brosens IA, et al. **Horm Res** 1989;32 Suppl 1:103–5

CT and ultrasound of gallbladder adenomyomatosis mimicking carcinoma. Gerard PS, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):490–1

Endometriosis of the right fallopian tube mimicking appendicitis on sonography. Kirshenbaum KJ, et al. **J Ultrasound Med** 1990 Jan;9(1):57–9

Cystometric evaluation of vesical endometriosis before and after hormonal or surgical treatment. Goldstein MS, et al. **Mt Sinai J Med** 1990 Mar;57(2):109–11

Clinical usefulness of determination of estradiol level in the menstrual blood for patients with endometriosis. Takahashi K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Nov; 41(11):1849–50

New developments in diagnostic techniques. Schenken RS, et al. **Prog Clin Biol Res** 1990;323:137–49 (27 ref.)

Monitoring therapy with a gonadotropin-releasing hormone analog: utility of MR imaging. Zawin M, et al. **Radiology** 1990 May;175(2):503–6

Scar endometriosis. Brenner C, et al. **Surg Gynecol Obstet** 1990 Jun;170(6):538–40 (15 ref.)

[Primary research on saliva and serum CA125 assays for detecting malignant ovarian tumors] Chen DX, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1990 Mar;25(2):84–5, 123–4 (Eng. Abstr.) **(Chi)**

[Clinical manifestation and classification of endometriosis] Hucke J, et al. **Gynakologe** 1989 Oct;22(5):289–93 (54 ref.) (Eng. Abstr.) **(Ger)**

[Endometriosis and laparoscopy] Köhler G. **Zentralbl Gynakol** 1989;111(21):1397–403 (19 ref.) (Eng. Abstr.) **(Ger)**

[An atypical echographic aspect of endometriotic cysts. Description of a case] Riccio A, et al. **Minerva Ginecol** 1990 Apr;42(4):143–5 (Eng. Abstr.) **(Ita)**

[Laparoscopic studies of pelvic endometriosis in relation to sterility] Hoshiai H. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Aug;41(8):990–9;

discussion 1000–7 (Eng. Abstr.) (Jpn)
[Scoring system for screening of patients with endometriosis in infertile clinic] Matsuura K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Feb;42(2):174–8 (Eng. Abstr.) (Jpn)
[Clinical significance of CA19–9 for endometriosis] Watanabe J, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Feb; 42(2):155–61 (Eng. Abstr.) (Jpn)
[MR imaging of adenomyosis] Yoshioka K, et al. **Rinsho Hoshasen** 1990 Jun;35(6):697–702 (Eng. Abstr.) (Jpn)
[The involvement of the urinary system organs in women suffering from genital endometriosis] Tkachuk VN, et al. **Urol Nefrol (Mosk)** 1990 Mar–Apr;(2):30–2 (Eng. Abstr.) (Rus)
[Bladder endometriosis] Quezada F, et al. **Arch Esp Urol** 1990 Jan–Feb;43(1):19–22 (Eng. Abstr.) (Spa)

DRUG THERAPY

Evaluation of histological and ultrastructural aspects of endometrium during treatment with gestrinone in women with amenorrhea or spotting. Fedele L, et al. **Acta Obstet Gynecol Scand** 1990;69(2):143–6
Lipid metabolism during treatment of endometriosis with the progestin dienogest. Köhler G, et al. **Acta Obstet Gynecol Scand** 1989;68(7):633–5
Efficacy of gonadotropin–releasing hormone agonist (buserelin) in the treatment of endometriosis. Rönnberg L, et al. **Acta Obstet Gynecol Scand** 1989;68(1):49–53
The rationale for endocrine therapy. Brosens IA. **Acta Obstet Gynecol Scand Suppl** 1989;150:21–5
The medical treatment of mild endometriosis. Cooke ID, et al. **Acta Obstet Gynecol Scand Suppl** 1989;150:27–30
Steroidal drugs in endometriosis. Kauppila AJ, et al. **Acta Obstet Gynecol Scand Suppl** 1989;150:7–13
Gonadotropin–releasing hormone agonists and estrogen–progestogen replacement therapy. Barbieri RL. **Am J Obstet Gynecol** 1990 Feb;162(2):593–5
Nafarelin in the treatment of infertility caused by endometriosis. Barlow DH. **Am J Obstet Gynecol** 1990 Feb; 162(2):576–9
Buserelin versus danazol in the treatment of endometriosis–associated infertility. Fedele L, et al. **Am J Obstet Gynecol** 1989 Oct;161(4):871–6
Efficacy and safety of nafarelin in the treatment of endometriosis. Henzl MR, et al. **Am J Obstet Gynecol** 1990 Feb;162(2):570–4
Nafarelin versus danazol in the treatment of endometriosis. Rolland R, et al. **Am J Obstet Gynecol** 1990 Feb; 162(2):586–8
Gonadotropin–releasing hormone analogs in the treatment of endometriomas. Schenken RS. **Am J Obstet Gynecol** 1990 Feb;162(2):579–81
Nafarelin in the treatment of pelvic pain caused by endometriosis. Shaw RW. **Am J Obstet Gynecol** 1990 Feb; 162(2):574–6
Clinical therapeutics of endometriosis, Part 2. Rumore MM, et al. **Am Pharm** 1989 Oct;NS29(10):40–4 (40 ref.)
LH–RH agonist (buserelin): treatment of endometriosis. Clinical, laparoscopic, endocrine and metabolic evaluation. Cirkel U, et al. **Arch Gynecol Obstet** 1989;246(3):139–51
A new therapy for pelvic endometriosis and uterine adenomyosis: local effect of vaginal and intrauterine danazol application. Igarashi M. **Asia Oceania J Obstet Gynaecol** 1990 Mar;16(1):1–12
Treatment of laparoscopically confirmed endometriosis with danazol. Meden–Vrtovec H. **Br J Clin Pract** 1989 May; 43(5):161–6
Prostatic adenocarcinoma with endometrioid features treated with oestrogen. Matsuda T, et al. **Br J Urol** 1989 Sep; 64(3):317–8
Estrogen–replacement therapy in patients with previous endometrial carcinoma. Baker DP. **Compr Ther** 1990 Jan; 16(1):28–35 (21 ref.)
Endometriosis 1990. Current treatment approaches. Barbieri RL. **Drugs** 1990 Apr;39(4):502–10 (25 ref.)
Studies on GnRH agonist suppression of estrogen production in patients with endometriosis. Ohtsuka S, et al. **Endocrinol Jpn** 1989 Aug;36(4):611–9
Disparate effect of tamoxifen in rats with experimentally induced endometriosis. Kadaba R, et al. **Endocrinology** 1990 Jun;126(6):3263–7
CA 125 levels in endometriosis patients before, during and after treatment with danazol or LHRH agonists. Acien P, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Sep; 32(3):241–6
Placebo–controlled comparison of hormonal and biochemical effects of danazol and high–dose medroxyprogesterone acetate. Telimaa S, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Jul–Aug; 36(1–2):97–105
Carbohydrate metabolism during treatment of endometriosis with the progestin dienogest. Nikschick S, et al. **Exp Clin Endocrinol** 1989 Sep;94(1–2):211–4
Lupron depot (leuprolide acetate for depot suspension) in the treatment of endometriosis: a randomized, placebo–controlled, double–blind study. Lupron Study Group. Dlugi AM, et al. **Fertil Steril** 1990 Sep;54(3):419–27
Hormonal and biochemical changes during treatment of endometriosis with the luteinizing hormone–releasing hormone (LH–RH) agonist [D–Trp6,des–Gly–NH2(10)]LH–RH ethylamide. Dupont A, et al. **Fertil Steril** 1990 Aug;54(2):227–32
Long–term suppression of ovarian function by a luteinizing–hormone releasing hormone agonist implant in patients with endometriosis. Fraser HM, et al. **Fertil Steril** 1990 Jan;53(1):61–8
A randomized double–blind prospective trial of two doses of gestrinone in the treatment of endometriosis. Hornstein MD, et al. **Fertil Steril** 1990 Feb;53(2):237–41
A comparison of nafarelin acetate and danazol in the treatment of endometriosis. Kennedy SH, et al. **Fertil Steril** 1990 Jun;53(6):998–1003
Comparison of different ovarian stimulation protocols for gamete intrafallopian transfer in patients with minimal and mild endometriosis. Remorgida V, et al. **Fertil Steril** 1990 Jun;53(6):1060–3
The effects of combining norethindrone with a gonadotropin–releasing hormone agonist in the treatment of symptomatic endometriosis. Surrey ES, et al. **Fertil Steril** 1990 Apr;53(4):620–6
Endocrine, metabolic, and clinical effects of gestrinone in women with endometriosis. Venturini PL, et al. **Fertil Steril** 1989 Oct;52(4):589–95
Treatment of endometriosis with a delayed release preparation of the agonist D–Trp6–luteinizing hormone–releasing hormone: long–term follow–up in a series of 50 patients. Zorn JR, et al. **Fertil Steril** 1990 Mar; 53(3):401–6
Serum CA–125 and 17 beta–estradiol in patients with external endometriosis on danazol. Takahashi K, et al. **Gynecol Obstet Invest** 1990;29(4):301–4
Zoladex versus danazol in the treatment of pelvic endometriosis: effects on plasma lipid risk factors. Crook D, et al. **Horm Res** 1989;32 Suppl 1:157–60
Endometriosis: poster and literature review. Hamberger L. **Horm Res** 1989;32 Suppl 1:117–8
Long–term use of the low dose LHRH analogue combined with monthly medroxy–progesterone administration. Lemay A, et al. **Horm Res** 1989;32 Suppl 1:141–5
Clinical appreciation of LHRH analogue formulations. Lemay A. **Horm Res** 1989;32 Suppl 1:93–101; discussion 102
Rationale in use of LHRH analogues in endometriosis. Shaw RW. **Horm Res** 1989;32 Suppl 1:110–4
A comparison of the skeletal effects of goserelin and danazol in premenopausal women with endometriosis. Stevenson JC, et al. **Horm Res** 1989;32 Suppl 1:161–3; discussion 164
The relevance of asymptomatic endometriosis. Thomas EJ. **Horm Res** 1989;32 Suppl 1:115–6
TRH test before, during, and after long–term danazol treatment in patients with endometriosis. Panidis DK, et al. **Hum Reprod** 1989 Nov;4(8):903–5
Is it possible to prevent bone loss in young women treated with luteinizing hormone–releasing hormone agonists? Riis BJ, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):920–4
Endometriosis–associated infertility treated by long–term gonadotropin–releasing hormone agonist administration and assisted fertilization. Dale PO, et al. **J In Vitro Fert Embryo Transf** 1990 Jun;7(3):180–1
Treatment of endometriosis with gonadotropin releasing hormone agonist (buserelin). Sirimongkolkasem R, et al. **J Med Assoc Thai** 1990 Feb;73 Suppl 1:37–41
Use of danazol in conservative surgery. Buttram VC Jr. **J Reprod Med** 1990 Jan;35(1 Suppl):82–4; discussion 84–6 (7 ref.)
Clinical experience treating endometriosis with nafarelin. Claesson B, et al. **J Reprod Med** 1989 Dec;34(12 Suppl):1025–8
Danazol. A synthetic steroid with diverse biologic effects. Dmowski WP. **J Reprod Med** 1990 Jan;35(1 Suppl):69–74; discussion 74–5 (39 ref.)
Role of nafarelin in the management of endometriosis. Henzl MR. **J Reprod Med** 1989 Dec;34(12 Suppl):1021–4
Pseudohypertestosteronemia during danazol therapy. A case report. Miller EJ, et al. **J Reprod Med** 1990 Jun;35(6):661–2
Nafarelin for endometriosis. **Med Lett Drugs Ther** 1990 Aug 24;32(825):81–2
Treatment of endometriosis with a long–acting gonadotropin–releasing hormone agonist plus medroxyprogesterone acetate. Cedars MI, et al. **Obstet Gynecol** 1990 Apr;75(4):641–5
Endometrial patterns during danazol and buserelin therapy for endometriosis: comparative structural and ultrastructural study. Fedele L, et al. **Obstet Gynecol** 1990 Jul;76(1):79–84
Leuprolide acetate in the management of ureteral obstruction caused by endometriosis. Rivlin ME, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 2):532–6
Megestrol acetate for treatment of endometriosis. Schlaff WD, et al. **Obstet Gynecol** 1990 Apr;75(4):646–8
Doxorubicin and cyclophosphamide, alternated with bleomycin and mitomycin C as a second–line regimen in advanced ovarian carcinoma resistant to cisplatin–based chemotherapy. Benedetti Panici P, et al. **Oncology** 1990; 47(4):296–8
Danazol: molecular, endocrine, and clinical pharmacology. Barbieri RL. **Prog Clin Biol Res** 1990;323:241–52 (21 ref.)
Therapeutic experience with gestrinone. Coutinho EM. **Prog Clin Biol Res** 1990;323:233–40 (9 ref.)
A comparison of the efficacy and safety of buserelin vs danazol in the treatment of endometriosis. Protocol 310 Study Group. Dawood MY, et al. **Prog Clin Biol Res** 1990; 323:253–67
Evaluation of preoperative use of danazol, gestrinone, lynestrenol, buserelin spray and buserelin implant, in the treatment of endometriosis associated infertility. Donnez J, et al. **Prog Clin Biol Res** 1990;323:427–42
Nafarelin: a new medical therapy for endometriosis. Henzl MR, et al. **Prog Clin Biol Res** 1990;323:343–55
Mechanisms involved in the hormonal treatment of endometriosis. Kiesel L, et al. **Prog Clin Biol Res** 1990; 323:179–96 (52 ref.)
Leuprolide acetate for the treatment of endometriosis. Miller JD. **Prog Clin Biol Res** 1990;323:337–41
Pseudopregnancy induced by estrogen–progestogen or progestogens alone in the treatment of endometriosis. Moghissi KS. **Prog Clin Biol Res** 1990;323:221–32 (22 ref.)
Rapid regression of endometriosis by a new gonadotropin–releasing hormone antagonist in rats with surgically induced disease. Sharpe KL, et al. **Prog Clin Biol Res** 1990;323:449–58
Goserelin—depot preparation of LHRH analogue used in the treatment of endometriosis. Shaw RW. **Prog Clin Biol Res** 1990;323:383–92
Efficacy and safety of intranasal buserelin acetate in the treatment of endometriosis: a review of six clinical trials and comparison with danazol. Trabant H, et al. **Prog Clin Biol Res** 1990;323:357–82 (60 ref.)
[Clinical effects and experimental study on gossypol in endometriosis] Xu LF, et al. **Chung Hsi I Chieh Ho Tsa Chih** 1989 Aug;9(8):462–4, 451 (Eng. Abstr.) (Chi)
[Analogs of gonadoliberin in the treatment of endometriosis and uterine myoma. Comparison of daily subcutaneous treatment and intramuscular depot therapy] Horský J, et al. **Cesk Gynekol** 1989 Aug;54(7):486–95 (Eng. Abstr.) (Cze)
[Treatment of endometriosis] Kiesel L, et al. **Arch Gynecol Obstet** 1989;245(1–4):937–40 (Eng. Abstr.) (Ger)
[Turner syndrome with peritoneal endometriosis and ascites—therapeutic effects of buserelin therapy] Meinen K, et al. **Arch Gynaecol Obstet** 1989;245(1–4):943–5 (Ger)
[Residual endometriosis following LHRH analog therapy] Ochs H, et al. **Geburtshilfe Frauenheilkd** 1990 Feb; 50(2):140–4 (Eng. Abstr.) (Ger)
[Long–term follow–up of 14 patients with endometriosis, who were treated with the LHRH analog buserelin] Reichel R, et al. **Gynakol Rundsch** 1989;29 Suppl 2:425–7 (Ger)
[Hormone therapy of endometriosis] Distler W. **Gynakologe** 1989 Oct;22(5):294–301 (57 ref.) (Ger)
[Hormonal changes in buserelin therapy] Fuchs U, et al. **Zentralbl Gynakol** 1989;111(18):1236–40 (Eng. Abstr.) (Ger)
[The effect of buserelin therapy in endometriosis] Fuchs U. **Zentralbl Gynakol** 1989;111(18):1231–5 (Eng. Abstr.) (Ger)
[A case of endometriosis with massive ascites] Hattori S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Mar; 42(3):291–4 (Jpn)
[Studies on endocrine therapy of endometriosis] Terakawa N. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Aug; 41(8):981–9; discussion 1000–7 (Eng. Abstr.) (Jpn)
[Effectiveness of hormonal therapy of endometrioid ovarian cysts] Minina LS, et al. **Akush Ginekol (Mosk)** 1990 Feb; (2):33–5 (Eng. Abstr.) (Rus)
[Conservative therapy of genital endometriosis] Pimenova LI, et al. **Sov Med** 1989;(7):119–22 (Rus)

EMBRYOLOGY

Müllerianosis. Batt RE, et al. **Prog Clin Biol Res** 1990; 323:413–26 (17 ref.)

ENZYMOLOGY

Immunohistochemical localization of prostaglandin H synthase in the female reproductive tract and endometriosis. Van Voorhis BJ, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):57–62
Placental–type alkaline phosphatase in peritoneal fluid of women with endometriosis. Kang JO, et al. **Clin Chim Acta** 1990 Jan 15;186(2):285–94

EPIDEMIOLOGY

Endometriosis: incidence among the Igbos of Nigeria. Osefo NJ, et al. **Int J Gynaecol Obstet** 1989 Dec;30(4):349–53
Coitus during menses. Its effect on endometriosis and pelvic inflammatory disease. Filer RB, et al. **J Reprod Med** 1989 Nov;34(11):887–90
The epidemiology of endometriosis. Goldman MB, et al. **Prog Clin Biol Res** 1990;323:15–31 (57 ref.)
[Statistics and endometriosis] Mandys F, et al. **Cesk Gynekol** 1990 May;55(4):304–6 (Cze)

ETIOLOGY

Etiology and epidemiology of endometriosis. Barbieri RL. **Am J Obstet Gynecol** 1990 Feb;162(2):565–7
The relationship between endometriosis and semen analysis: a review of 490 consecutive laparoscopies. Mahmood TA, et al. **Hum Reprod** 1989 Oct;4(7):782–5
Endometriosis and perimenarchal tubal torsion. A case report. Peng T, et al. **J Reprod Med** 1989 Nov;34(11):934–6
Primary female syndromes: an update. Yankauskas E.

N Y State J Med 1990 Jun;90(6):295–302 (51 ref.)
Evolution of endometriotic lesions: is endometriosis a progressive disease? Brosens IA. Prog Clin Biol Res 1990; 323:151–6 (6 ref.)
Etiology and histogenesis of endometriosis. Haney AF. Prog Clin Biol Res 1990;323:1–14 (33 ref.)
Clinical significance of prostanoid concentration in women with endometriosis. Rock JA, et al. Prog Clin Biol Res 1990;323:61–80 (46 ref.)
Experimental endometriosis in laboratory animals as a research model. Vernon MW. Prog Clin Biol Res 1990; 323:49–60 (29 ref.)
[Vesical endometriosis after cesarean section (letter)] Rossi D, et al. Presse Med 1990 Feb 24;19(7):334–5 (Fre)
[Endometriosis of the lower abdominal wall. Report of two cases secondary to cesarean section] Bottino G, et al. Minerva Ginecol 1990 Jun;42(6):283–5 (Eng. Abstr.) (Ita)
[Endometriosis of the bladder and vesico-uterine fistula as complications of cesarean section] Zięba Z, et al. Ginekol Pol 1989 May;60(5):297–9 (Eng. Abstr.) (Pol)
[Postoperative abdominal wall endometriosis] Dragomirescu C, et al. Rev Chir [Chir] 1989 May–Jun;38(3):215–9 (Eng. Abstr.) (Rum)

GENETICS

Endometriosis: genetic and immunologic aspects. Dmowski WP, et al. Prog Clin Biol Res 1990;323:99–122 (40 ref.)

IMMUNOLOGY

Serum Ca–125 concentrations in endometriosis. Fedele L, et al. Acta Eur Fertil 1989 May–Jun;20(3):137–9
The use of serial CA 125 concentrations to monitor endometriosis in infertile women. Pittaway DE. Am J Obstet Gynecol 1990 Sep;163(3):1032–5; discussion 1035–7
Localization of anti–endometrial antibody binding in women with endometriosis using a double–labelling immunohistochemical method. Kennedy SH, et al. Br J Obstet Gynaecol 1990 Aug;97(8):671–4
Endometrial antibodies in serum and peritoneal fluid of infertile patients with and without endometriosis. Badaway SZ, et al. Fertil Steril 1990 May;53(5):930–2
Peritoneal fluid and serum autoantibody levels in patients with endometriosis. Confino E, et al. Fertil Steril 1990 Feb; 53(2):242–5
Failure to demonstrate significant antisperm antibodies in peritoneal fluid of patients with endometriosis. Gentry WL, et al. Fertil Steril 1989 Dec;52(6):949–52
Autoantibodies in endometriosis—epiphenomenon? [letter] Gleicher N. Fertil Steril 1990 Sep;54(3):543–4
Cardiolipin antibody levels in endometriosis and systemic lupus erythematosus. Kennedy SH, et al. Fertil Steril 1989 Dec;52(6):1061–2
Absence of antisperm antibodies and factors influencing sperm motility in the cul–de–sac fluid of women with endometriosis. Leach RE, et al. Fertil Steril 1990 Feb; 53(2):351–3
Endometrial autoantigens eliciting immunoglobulin (Ig)G, IgA, and IgM responses in endometriosis. Mathur S, et al. Fertil Steril 1990 Jul;54(1):56–63
Clinical usefulness of CA–125 levels in the menstrual discharge in patients with endometriosis. Takahashi K, et al. Fertil Steril 1990 Aug;54(2):360–2
Effector function of lymphokine–activated killer cells and cytotoxic T lymphocytes in ovarian epithelial carcinoma. Lentz SS, et al. Gynecol Oncol 1990 Aug;38(2):191–6
Production and secretion of complement component 3 by endometriotic tissue. Isaacson KB, et al. J Clin Endocrinol Metab 1989 Nov;69(5):1003–9
Immunoreactive determinants of CA 125 in women with endometriosis. Mojiminiyi OA, et al. J Clin Pathol 1989 Dec;42(12):1272–5
Antiendometrial antibodies in endometriosis measured by an enzyme–linked immunosorbent assay before and after treatment with danazol and nafarelin. Kennedy SH, et al. Obstet Gynecol 1990 Jun;75(6):914–8
No HLA–DR specificity is associated with endometriosis. Maxwell C, et al. Tissue Antigens 1989 Aug;34(2):145–7
[Immunological aspects of endometriosis] Kuhn U. Gynakologe 1990 Jun;23(3):135–9 (51 ref.) (Ger)
[Immunologic aspects of endometriosis] Kowalski W, et al. Ginekol Pol 1989 Feb;60(2):95–100 (41 ref.) (Eng. Abstr.) (Pol)
[The natural cellular cytotoxicity of endometriosis patients] Startseva NV, et al. Akush Ginekol (Mosk) 1989 Nov; (11):58–60 (Eng. Abstr.) (Rus)

METABOLISM

Endometrial synthesis and secretion of complement component–3 by patients with and without endometriosis. Isaacson KB, et al. Fertil Steril 1990 May;53(5):836–41
Peritoneal fluid from endometriosis patients affects reproductive outcome in an in vivo model. Steinleitner A, et al. Fertil Steril 1990 May;53(5):926–9
[Measurement of estrogen receptor and progesterone receptor in human endometrium and endometrial carcinoma] Itoh E. Nippon Gan Chiryo Gakkai Shi 1990 Apr 20;25(4):812–20 (Eng. Abstr.) (Jpn)
[Fundamental and clinical studies on biochemical properties of endometriosis in comparison with endometrium] Taketani Y. Nippon Sanka Fujinka Gakkai Zasshi 1989 Aug;41(8):971–80; discussion 1000–7 (Eng. Abstr.) (Jpn)

PATHOLOGY

Development of ploidy and cell proliferation in serial samples of ascites from patients with ovarian carcinoma. Sahni K, et al. Acta Oncol 1990;29(2):193–7
Stromal endometriosis of the uterine cervix. A variant of endometriosis that may simulate a sarcoma. Clement PB, et al. Am J Surg Pathol 1990 May;14(5):449–55
Peritoneal keratin granulomas with carcinomas of endometrium and ovary and atypical polypoid adenomyoma of endometrium. A clinicopathological analysis of 22 cases. Kim KR, et al. Am J Surg Pathol 1990 Oct;14(10):925–32
Adenomyomatosis of the gall bladder: the NUH experience. Chan–Wilde C, et al. Ann Acad Med Singapore 1990 May; 19(3):389–92
An endometriotic cyst of the left ovary in pregnancy—a case report. Dare FO, et al. Cent Afr J Med 1989 Oct; 35(10):509–10
Laparoscopic ovarian puncture for correct staging of endometriosis. Candiani GB, et al. Fertil Steril 1990 Jun; 53(6):994–7
Deeply infiltrating pelvic endometriosis: histology and clinical significance. Cornillie FJ, et al. Fertil Steril 1990 Jun;53(6):978–83
Stage and localization of pelvic endometriosis and pain [see comments] Fedele L, et al. Fertil Steril 1990 Jan; 53(1):155–8 Comment in: Fertil Steril 1990 Jul;54(1):180–1.
Structural and ultrastructural defects in preovulatory endometrium of normo–ovulating infertile women with minimal or mild endometriosis. Fedele L, et al. Fertil Steril 1990 Jun;53(6):989–93
Histologic study of peritoneal endometriosis in infertile women. Nisolle M, et al. Fertil Steril 1990 Jun;53(6):984–8
Biopsy proven rectal endometriosis demonstrating early decidual reaction [letter] MacLaughlin WS Jr, et al. Gastrointest Endosc 1990 Jan–Feb;36(1):82–3
Endometriosis of the cecum and appendix: two case reports. Ardies P, et al. Gastrointest Radiol 1990 Summer; 15(3):263–4
Description of an endometrioid ovarian cancer cell line. Giancotti FR, et al. Gynecol Oncol 1989 Dec;35(3):330–7
Endometrial adenocarcinoma with variable–level myometrial involvement limited to adenomyosis: a clinicopathologic study of 23 cases. Jacques SM, et al. Gynecol Oncol 1990 Jun;37(3):401–7
Malignant mixed müllerian tumour of the fallopian tube. van Dijk CM, et al. Histopathology 1990 Mar;16(3):300–2
Histological and electron–microscopy studies on endometriosis. Schweppe K. Horm Res 1989;32 Suppl 1:106–9
Endometrioid carcinoma of the fallopian tube: pathology and clinical outcome. Rorat E, et al. Int J Gynaecol Obstet 1990 Jun;32(2):163–7
Ovarian endometrioid carcinomas resembling sex cord–stromal tumors. An immunohistochemical study. Aguirre P, et al. Int J Gynecol Pathol 1989;8(4):364–73
Correlation between tumor histology, steroid receptor status, and adenosine deaminase complexing protein immunoreactivity in ovarian cancer. Rao BR, et al. Int J Gynecol Pathol 1990;9(1):47–54
Nucleolar organiser regions in normal, hyperplastic, and neoplastic endometria. Wilkinson N, et al. Int J Gynecol Pathol 1990;9(1):55–9
Endometriosis of the obturator nerve. A case report. Redwine DB, et al. J Reprod Med 1990 Apr;35(4):434–5
Endometrioid adenosarcoma of the bladder arising from endometriosis. Vara AR, et al. J Urol 1990 Apr; 143(4):813–5
Ultrasound appearance of adenomyosis mimicking adenocarcinoma in a postmenopausal woman. Lister JE, et al. JCU 1988 Sep;16(7):519–21
Malignant neoplasms arising in endometriosis. Heaps JM, et al. Obstet Gynecol 1990 Jun;75(6):1023–8 (43 ref.)
Ovarian carcinoma arising in atypical endometriosis. Moll UM, et al. Obstet Gynecol 1990 Mar;75(3 Pt 2):537–9
Fimbrioscopy and salpingoscopy in patients with minimal to moderate pelvic endometriosis. Nezhat F, et al. Obstet Gynecol 1990 Jan;75(1):15–7
The influence of endometriosis on the staging of cervical cancer. Walker JL, et al. Obstet Gynecol 1990 Mar;75(3 Pt 2):543–5
Pathology of endometriosis. Clement PB. Pathol Annu 1990; 25 Pt 1:245–95 (310 ref.)
Endometriosis of the large bowel: a report of 11 cases. Rowland R, et al. Pathology 1989 Oct;21(4):259–65
The visual appearance of endometriosis and its impact on our concepts of disease. Redwine DB. Prog Clin Biol Res 1990;323:393–412 (66 ref.)
Endometriotic lesions: location, gross, histologic, and ultrastructural aspects. Schweppe KW. Prog Clin Biol Res 1990;323:33–47 (8 ref.)
[Peritoneal macrophages and their activity in sterile patients with endometriosis] Laitl J, et al. Cesk Gynekol 1989 Nov; 54(9):667–72 (Eng. Abstr.) (Cze)
[Endosalpingosis or microcystic and proliferating glandular inclusion disease of the genital tract and peritoneum. Apropos of 6 cases] De Morel P, et al. Rev Fr Gynecol Obstet 1990 May;85(5):313–8 (Eng. Abstr.) (Fre)
[Endometriosis of the skin] Nasemann TR. Z Hautkr 1990 Feb;65(2):117–9 (Ger)
[Effects of female sex steroid hormones on human endometrial adenocarcinoma transplanted into nude mice] Miyawaki Y. Nippon Gan Chiryo Gakkai Shi 1989 Dec 20;24(11):2607–16 (Eng. Abstr.) (Jpn)
[MRI in evaluation of myometrial invasion and staging of endometrial carcinoma] Kaketa M, et al. Nippon Sanka Fujinka Gakkai Zasshi 1989 Jul;41(7):859–66 (Eng. Abstr.) (Jpn)
[Clinicopathological study of endometrial–type adenocarcinoma of uterus] Yamagiwa H, et al. Rinsho Byori 1990 Mar;38(3):323–7 (Eng. Abstr.) (Jpn)
[Structure of the microcirculatory bed in uterine endometriosis] Suprun LIa, et al. Akush Ginekol (Mosk) 1990 Feb;(2):30–3 (Eng. Abstr.) (Rus)
[Pseudotumoral endometriosis of the colon] Martini RB, et al. Rev Esp Enferm Dig 1990 Apr;77(4):290–4 (Eng. Abstr.) (Spa)
[Polypoid endometriosis of the colon diagnosed using endoscopic biopsy] Oliver Morales J, et al. Rev Esp Enferm Dig 1990 May;77(5):369–71 (Eng. Abstr.) (Spa)

PHYSIOPATHOLOGY

The rat as an animal model for endometriosis to examine recurrence of ectopic endometrial tissue after regression. Rajkumar K, et al. Fertil Steril 1990 May;53(5):921–5
The effect of endometriomas on in vitro fertilization outcome. Dlugi AM, et al. J In Vitro Fert Embryo Transf 1989 Dec; 6(6):338–41
Luteal function in patients with endometriosis. Zhang YW, et al. Proc Chin Acad Med Sci Peking Union Med Coll 1989;4(2):96–101
Fallopian tube and fimbrial function in endometriosis: with a special reference to an ovum capture inhibitor. Suginami H, et al. Prog Clin Biol Res 1990;323:81–97
Prostaglandin and leukotriene concentration of the peritoneal fluid of endometriosis and other gynecologic disorders in the secretory phase. Yamaguchi M, et al. Prostaglandins Leukot Essent Fatty Acids 1990 Jan; 39(1):43–5
[Luteal function in patients with endometriosis] Ji H. Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1989 Oct; 11(5):344–8 (Eng. Abstr.) (Chi)
[Pathophysiology of endometriosis] Schweppe KW. Gynakologe 1989 Oct;22(5):279–88 (52 ref.) (Ger)
[Relationship between luteal function and prolactin in infertile women with endometriosis] Hayashi N, et al. Nippon Sanka Fujinka Gakkai Zasshi 1989 Nov; 41(11):1720–4 (Eng. Abstr.) (Jpn)

PREVENTION & CONTROL

Preventive, symptomatic and expectant management of endometriosis. Thomas EJ. Prog Clin Biol Res 1990; 323:197–208 (30 ref.)
[Endometriosis in light of laparoscopic examinations] Marszał P, et al. Ginekol Pol 1989 Apr;60(4):212–5 (Eng. Abstr.) (Pol)

RADIOGRAPHY

CT appearance of diffuse peritoneal endometriosis. Nardi PM, et al. J Comput Assist Tomogr 1989 Nov–Dec; 13(6):1075–7
Endometriosis of the lung. Di Palo S, et al. Respir Med 1989 May;83(3):255–8
[Problems in the x–ray imaging of adenomyosis (endometriosis interna uteri)] Cherveniashki S, et al. Akush Ginekol (Sofiia) 1989;28(3):55–9 (Eng. Abstr.) (Bul)

RADIONUCLIDE IMAGING

Immunoscintigraphy of endometriosis. Kennedy SH, et al. Br J Obstet Gynaecol 1990 Aug;97(8):667–70

SURGERY

Laparotomy versus laparoscopy in the surgical treatment of endometriosis: the end of an era? Candiani GB, et al. Acta Eur Fertil 1989 May–Jun;20(3):163–6 (24 ref.)
Laparoscopic treatment of endometriosis. Canis M, et al. Acta Obstet Gynecol Scand Suppl 1989;150:15–20
Endometriosis of the recto–vaginal septum treated by anterior resection. Chen TF, et al. Ann Chir Gynaecol 1989; 78(4):324–6
Ureteric endometriosis: 3 case reports and a review of the literature. Bradford JA, et al. Aust N Z J Obstet Gynaecol 1989 Nov;29(4):421–4 (27 ref.)
CO2 laser laparoscopy. Bruhat MA, et al. Baillieres Clin Obstet Gynaecol 1989 Sep;3(3):487–97 (29 ref.)
CO2 laser laparoscopy in the treatment of endometriosis. Sutton C. Baillieres Clin Obstet Gynaecol 1989 Sep; 3(3):499–523 (67 ref.)
Laser laparoscopy in the treatment of endometriosis. A 5–year study. Sutton C, et al. Br J Obstet Gynaecol 1990 Feb;97(2):181–5
Surgical treatment of symptomatic colorectal endometriosis. Coronado C, et al. Fertil Steril 1990 Mar;53(3):411–6
Perineal endometriosis. Salamalekis E, et al. Int J Gynaecol Obstet 1990 Jan;31(1):75–80

Use of danazol in conservative surgery. Buttram VC Jr. **J Reprod Med** 1990 Jan;35(1 Suppl):82–4; discussion 84–6 (7 ref.)

Nd:YAG laser laparoscopy for ovarian endometriomas. Kojima E, et al. **J Reprod Med** 1990 Jun;35(6):592–6

Minimal and mild endometriosis. Nd:YAG laser treatment and changes in prostaglandin concentrations in peritoneal fluid. Morita M, et al. **J Reprod Med** 1990 Jun;35(6):621–4

Principles of conventional conservative surgery. Buttram VC Jr. **Prog Clin Biol Res** 1990;323:269–80

Laparoscopic management of endometriosis with lasers: advantages and disadvantages. Daniell JF. **Prog Clin Biol Res** 1990;323:305–17 (16 ref.)

Electrosurgery: advantages and disadvantages. Soderstrom RM. **Prog Clin Biol Res** 1990;323:297–304

Borderline ovarian tumors: a review of treatment. Chambers JT. **Yale J Biol Med** 1989 Jul–Aug;62(4):351–65 (43 ref.)

[Digestive endometriosis. Apropos of 5 cases of intestinal involvement and resection] Blanchot J, et al. **J Chir (Paris)** 1990 May;127(5):271–6 (Eng. Abstr.) **(Fre)**

[Pregnancy after ovariectomy as a result of preservation of the embryos] Racinet C, et al. **Presse Med** 1990 Jun 30; 19(26):1228–9 (Eng. Abstr.) **(Fre)**

[Recurrent functional ovarian cysts following laparoscopy fenestration] De Wilde R, et al. **Geburtshilfe Frauenheilkd** 1989 Dec;49(12):1085–6 (Eng. Abstr.) **(Ger)**

[Treatment of endometriosis with laser laparoscopy] Brosens I, et al. **Gynakologe** 1989 Oct;22(5):310–4 **(Ger)**

[Endometriosis as the main or concomitant finding in fertility surgery. A retrospective study] Campo RL, et al. **Gynakologe** 1989 Oct;22(5):302–9 **(Ger)**

[Treatment of sterility in endometriosis] Gordts S. **Gynakologe** 1989 Oct;22(5):315–9 (25 ref.) **(Ger)**

[Experience with the use of the CO2 laser in reconstructive and plastic gynecologic surgery in patients with uterine myoma and endometriosis] Adamian LV, et al. **Akush Ginekol (Mosk)** 1990 Feb;(2):24–7 (Eng. Abstr.) **(Rus)**

[Diagnosis and surgical treatment of combined forms of endometriosis] Krasnopol'skii VI, et al. **Akush Ginekol (Mosk)** 1989 Jul;(7):67–71 **(Rus)**

[Clinical course and surgical treatment of intestinal endometriosis] Tsvelev IuV, et al. **Vestn Khir** 1989 Sep; 143(9):10–3 (Eng. Abstr.) **(Rus)**

[Conservative surgical treatment of pelvic endometriosis] González Gutiérrez JT, et al. **Ginecol Obstet Mex** 1977 Jul;42(249):33–9 (6 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Endometriosis. West CP. **BMJ** 1990 Jul 28;301(6745):189–90 (27 ref.)

Comparison of three modes of treatment for infertility patients with minimal pelvic endometriosis. Chong AP, et al. **Fertil Steril** 1990 Mar;53(3):407–10

The pregnancy rate of the no-treatment group in randomized clinical trials of endometriosis therapy. Evers JL. **Fertil Steril** 1989 Dec;52(6):906–7

Management of endometriosis in the infertile patient. Kistner RW. **Fertil Steril** 1975 Dec;26(12):1151–66 (42 ref.)

Nonclassical citations [letter] Reiter RC, et al. **Fertil Steril** 1990 Sep;54(3):547–9

Necrotizing granulomas of peritoneum following diathermy ablation of endometriosis. Clarke TJ, et al. **Histopathology** 1990 Apr;16(4):400–2

Endometriosis. Overview and future directions. Rock JA. **J Reprod Med** 1990 Jan;35(1 Suppl):76–80; discussion 80–1 (20 ref.)

Transdermal oestrogene application a contraindication in therapy of endometriosis with gonadotropin-releasing hormone analogues. Rosen A, et al. **Klin Wochenschr** 1990 May 17;68(10):537

Ablation of endometriotic implants in rabbits by hematoporphyrin derivative photoradiation therapy using the gold vapor laser. Petrucco OM, et al. **Lasers Surg Med** 1990;10(4):344–8

Extragenital endometriosis. Franklin RR, et al. **Prog Clin Biol Res** 1990;323:289–95 (26 ref.)

In vitro fertilization and embryo transfer: an established and successful therapy for endometriosis. Oehninger S, et al. **Prog Clin Biol Res** 1990;323:319–35

Management of infertility in women with endometriosis. Radwanska E. **Prog Clin Biol Res** 1990;323:209–20 (49 ref.)

Combined medical and surgical therapy for endometriosis. Wheeler JM, et al. **Prog Clin Biol Res** 1990;323:281–8 (23 ref.)

Statistical methods in evaluating endometriosis studies. Wheeler JM. **Prog Clin Biol Res** 1990;323:443–8 (1 ref.)

[Occult and minimal forms of endometriosis: therapeutic strategies] Audebert AJ. **Rev Fr Gynecol Obstet** 1990 Feb; 85(2):79–84 (51 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of endometriosis associated infertility] Inoue M. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Aug; 41(8):960–70; discussion 1000–7 (Eng. Abstr.) **(Jpn)**

[Current views on the treatment of endometriosis] Kowalski W, et al. **Ginekol Pol** 1989 Feb;60(2):101–6 (37 ref.) (Eng. Abstr.) **(Pol)**

[Clinico-pathogenetic substantiation of medical tactics in combined benign hyperplastic processes in the uterus of patients of reproductive age] Uvarova EV. **Akush Ginekol (Mosk)** 1989 Jul;(7):19–24 (Eng. Abstr.) **(Rus)**

VETERINARY

Spontaneous external endometriosis in a De Brazza's monkey. Binhazim AA, et al. **J Comp Pathol** 1989 Nov;101(4):471–4

Massive endometriosis in two rhesus monkeys. Saegusa J, et al. **Jikken Dobutsu** 1989 Jul;38(3):275–8

Endometriosis in rhesus monkeys. Saegusa J. **Nippon Juigaku Zasshi** 1990 Aug;52(4):895–7

ENDOMETRITIS

COMPLICATIONS

Uterine herpes virus infection with multifocal necrotizing endometritis. Duncan DA, et al. **Hum Pathol** 1989 Oct; 20(10):1021–4

[Inflammation of the uterine corpus: endometritis] Grio R, et al. **Minerva Ginecol** 1990 Apr;42(4):99–102 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

C-reactive protein in preterm premature rupture of the membranes [published erratum appears in Arch Gynecol Obstet 1990;247(2):106] Kurki T, et al. **Arch Gynecol Obstet** 1990;247(1):31–7

Postmenopausal tuberculous pyometra. Dutton WA. **Can Med Assoc J** 1966 May 7;94(19):1012–3

Comparison of two endometrial sampling devices. Cotton-tipped swab and double-lumen catheter with a brush. Martens MG, et al. **J Reprod Med** 1989 Nov; 34(11):875–9

[Pyometra without accompanying malignant uterine disease] Rasmussen KL, et al. **Ugeskr Laeger** 1990 Jun 18; 152(25):1822–3 (Eng. Abstr.) **(Dan)**

[Septic ovarian vein thrombosis—diagnosis and therapy] Loos W, et al. **Arch Gynecol Obstet** 1989;245(1–4):827–9 (8 ref.) (Eng. Abstr.) **(Ger)**

[Clinical aspects, diagnosis and treatment of urogenital Chlamydia infection] Savicheva AM, et al. **Akush Ginekol (Mosk)** 1989 Jul;(7):74–8 **(Rus)**

[Pregnancy-associated alpha 2-glycoproteins in the diagnosis of postpartum suppurative and septic diseases] Gorin VS, et al. **Sov Med** 1990;(1):29–32 (Eng. Abstr.) **(Rus)**

[Chemiluminescence analysis in the detection of an inflammatory process] Franchik AE, et al. **Vrach Delo** 1989 Jul;(7):11–2 **(Rus)**

DRUG THERAPY

Comparison of parenteral ciprofloxacin with clindamycin-gentamicin in the treatment of pelvic infection. Apuzzio JJ, et al. **Am J Med** 1989 Nov 30; 87(5A):148S–151S

Antibiotics for postcesarean endometritis [letter; comment] Duff P. **Am J Obstet Gynecol** 1989 Oct;161(4):1087 Comment on: Am J Obstet Gynecol 1987 Oct;157(4 Pt 1):908–9.

Cefotetan and the lack of associated bleeding [letter] Martens M, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):251–2

Postpartum gentamicin dosing and endometritis [letter; comment] Stoukides CA, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1132–3 Comment on: Am J Obstet Gynecol 1989 Feb;160(2):309–13.

Sulbactam/ampicillin versus metronidazole/gentamicin in the treatment of post-cesarean section endometritis. Martens MG, et al. **Diagn Microbiol Infect Dis** 1989 Jul–Aug;12(4 Suppl):189S–194S

Suspected postpartum endometritis: a controlled clinical trial of single-agent antibiotic therapy with Amox-CA (Augmentin) vs. ampicillin-metronidazole +/- aminoglycoside. Fernandez H, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Jul–Aug; 36(1–2):69–74

Comparison of ceftriaxone (1 x 1 g/day) versus cefotaxime (3 x 1 g/day) for gynecologic and obstetric infections. A randomized clinical trial. Gerstner GJ. **Gynecol Obstet Invest** 1990;29(4):273–7

Etiology and treatment of post-cesarean-section endometritis after cephalosporin prophylaxis. Hillier S, et al. **J Reprod Med** 1990 Mar;35(3 Suppl):322–8

Ampicillin/sulbactam versus clindamycin in the treatment of postpartum endomyometritis. Martens MG, et al. **South Med J** 1990 Apr;83(4):408–13

[Use of levamisole in inflammatory diseases of the uterus and adnexa uteri] Malkov IaIu, et al. **Akush Ginekol (Mosk)** 1989 Sep;(9):70–1 **(Rus)**

[Antibiotic therapy in post-cesarean endomyometritis. Comparison of ampicillin-gentamicin and ampicillin-metronidazole regimens] Walss-Rodríguez R, et al. **Gac Med Mex** 1990 Mar–Apr;126(2):102–7 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Incidental tuberculous endometritis in premenstrual curettings from infertile women in eastern Nigeria. Gini PC, et al. **Int J Gynaecol Obstet** 1990 Feb;31(2):141–4

A clinical and microbiologic analysis of risk factors for puerperal endometritis. Newton ER, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):402–6

Bacterial vaginosis as a risk factor for post-cesarean endometritis. Watts DH, et al. **Obstet Gynecol** 1990 Jan; 75(1):52–8

Cytomegalovirus endometritis after liver transplantation. Sayage L, et al. **Transplantation** 1990 Apr;49(4):815–7

[Clostridium infection in the puerperium following cesarean section] Baltzer J, et al. **Geburtshilfe Frauenheilkd** 1989 Nov;49(11):1010–3 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Role of plasminogen activators and leukocytes in IUD-induced inflammation: effect of some anti-inflammatory agents. Srivastava K, et al. **Adv Contracept** 1989 Sep;5(3):173–8

MICROBIOLOGY

Bacteriologic findings of post-cesarean endometritis in adolescents. Berenson AB, et al. **Obstet Gynecol** 1990 Apr; 75(4):627–9

[Isolation of Chlamydia trachomatis from the endometrium and endometritis. Apropos of a series of 42 patients] Zorn B, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989; 18(5):627–34 (Eng. Abstr.) **(Fre)**

PATHOLOGY

Xanthomatous endometritis. Blanco C, et al. **Appl Pathol** 1989;7(4):273–6

Xanthogranulomatous endometritis. Report of six cases and a proposed mechanism of development. Russack V, et al. **Arch Pathol Lab Med** 1990 Sep;114(9):929–32

PREVENTION & CONTROL

Infections complicating low-risk cesarean sections in community hospitals: efficacy of antimicrobial prophylaxis. Ehrenkranz NJ, et al. **Am J Obstet Gynecol** 1990 Feb; 162(2):337–43

Antibiotic prophylaxis: is there a difference? Faro S, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):900–7; discussion 907–9

Methylergometrine and puerperal infections after normal delivery and after cesarean section. Iatrakis GM, et al. **Isr J Med Sci** 1989 Dec;25(12):714–5

Comparison of one dose cefazolin versus one dose cefotetan for cesarean section prophylaxis. Probst JR, et al. **J Fla Med Assoc** 1989 Dec;76(12):1027–9

Cefotaxime for cesarean section prophylaxis in labor. Intravenous administration vs. lavage. Berkeley AS, et al. **J Reprod Med** 1990 Mar;35(3):214–8

Antibiotic prophylaxis for cesarean delivery: is an extended-spectrum agent necessary? Carlson C, et al. **Obstet Gynecol** 1990 Sep;76(3 Pt 1):343–6

Cesarean prophylaxis: a comparison of cefamandole and cefazolin by both intravenous and lavage routes, and risk factors associated with endometritis. Peterson CM, et al. **Obstet Gynecol** 1990 Feb;75(2):179–82

SURGERY

[Treatment of obstetrical infection] Chiladze AZ. **Akush Ginekol (Mosk)** 1989 Oct;(10):58–60 (Eng. Abstr.) **(Rus)**

THERAPY

[Photo-modification of the autologous blood in combined treatment of inflammatory suppurative-infective diseases of the female genitalia] Chalenko VV, et al. **Akush Ginekol (Mosk)** 1990 Apr;(4):67–8 **(Rus)**

[Intensive treatment of patients with acute inflammatory processes of the genitalia] Vdovin SV, et al. **Akush Ginekol (Mosk)** 1990 Apr;(4):65–6 **(Rus)**

VETERINARY

Disposition kinetics of gentamicin in normal and endometritic cows using a microbiological assay. el-Sayed MG, et al. **DTW Dtsch Tierarztl Wochenschr** 1989 Sep;96(8):412–5

A retrospective study of 40 cases of canine pyometra-metritis treated with prostaglandin F-2 alpha and broad-spectrum antibacterial drugs. Gilbert RO, et al. **J Reprod Fertil Suppl** 1989;39:225–9

Current views on the pathogenesis of bacterial endometritis in mares. Allen WE, et al. **Vet Rec** 1989 Sep 9; 125(11):298–301 (64 ref.)

Bovine endometritis: comparative efficacy of alfaprostol and intrauterine therapies, and other factors influencing clinical success. Murray RD, et al. **Vet Rec** 1990 Jul 28;127(4):86–90

Pyometra in a Friesian heifer: bacteriological and endometrial changes. Noakes DE, et al. **Vet Rec** 1990 May 19; 126(20):509

Immunological induction of endometritis-model investigations in cows. Kluciński W, et al. **Zentralbl Veterinarmed [A]** 1990 Mar;37(2):148–53

Bovine uterine defense mechanisms: a review. Hussain AM. **Zentralbl Veterinarmed [B]** 1989 Nov;36(9):641–51 (101 ref.)

[Postpartum endometritis in cattle] de Kruif A. **Tijdschr Diergeneeskd** 1990 Jan 15;115(2):51–60 (41 ref.) (Eng. Abstr.) **(Dut)**

[The treatment of Actinomyces pyogenes endometritis by intrauterine Gentaseptin administration] Anetzhofer JV. **Schweiz Arch Tierheilkd** 1989;131(8):495–8 (Eng. Abstr.) **(Ger)**

[A case of disseminated intravascular coagulation (DIC) in a cow with endometritis and fetal death] Braun U, et al. **Schweiz Arch Tierheilkd** 1990;132(5):239–45 (Eng. Abstr.)

(Ger)

ENDOMETRIUM

Low-grade endometrial stromal sarcoma treated with a progestogen. Rand RJ, et al. **Br J Hosp Med** 1990 Feb; 43(2):154–6

Evaluation of the Pipelle curette for endometrial biopsy. Henig I, et al. **J Reprod Med** 1989 Oct;34(10):786–9

[Adenocarcinoma of the endometrium in 2 patients taking tamoxifen (letter)] Dauplat J, et al. **Presse Med** 1990 Mar 3;19(8):380–1 (Fre)

ANALYSIS

Diameter increase of collagen fibrils of the mouse endometrium during decidualization. Alberto-Rincon MC, et al. **Am J Anat** 1989 Dec;186(4):417–29

Peri-implantation phase endometrial estrogen and progesterone receptors: effect of ovulation induction with clomiphene citrate. Hecht BR, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1688–93

Endometrial concentrations of ampicillin in mares after intrauterine infusion of the drug. Love CC, et al. **Am J Vet Res** 1990 Feb;51(2):197–9

Enzyme immunoassay of progesterone receptor in cancerous and normal endometrial tissue. A comparison with dextran coated charcoal method. Fernö M, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1681–3

Epidermal growth factor-like immunoreactivity in human endometrium. Ishihara S, et al. **Asia Oceania J Obstet Gynaecol** 1990 Jun;16(2):165–8

Insulin-like growth factor-I expression during early conceptus development in the pig. Letcher R, et al. **Biol Reprod** 1989 Dec;41(6):1143–51

Immunological characterization and immunocytochemical localization of a progesterone-dependent cat endometrial secretory protein. Verhage HG, et al. **Biol Reprod** 1989 Aug;41(2):347–54

Endogenous oestrogens and androgens in normal and malignant endometrial and mammary tissues. Thijssen JH, et al. **Eur J Cancer Clin Oncol** 1989 Dec;25(12):1953–9

Immunohistological distribution of the secretory endometrial protein, 'pregnancy-associated endometrial alpha 2-globulin', a glycosylated beta-lactoglobulin homologue, in the human fetus and adult employing monoclonal antibodies. Waites GT, et al. **Hum Reprod** 1990 Jul; 5(5):487–93

Trace elements in the endometrium of infertile women. Singh L, et al. **Indian J Med Sci** 1989 Jan;43(1):1–4

MSN-1 antibody in the evaluation of female genital tract adenocarcinomas. Poropatich C, et al. **Int J Gynecol Pathol** 1990;9(1):73–9

Nucleolar organiser regions in normal, hyperplastic, and neoplastic endometria. Wilkinson N, et al. **Int J Gynecol Pathol** 1990;9(1):55–9

Simultaneous quantification of oestrogen and progesterone receptors by a ligand binding assay in frozen sections. Vollmer G, et al. **J Clin Chem Clin Biochem** 1989 Dec; 27(12):953–9

Human 'pregnancy-associated endometrial alpha 1-globulin', a 32 kDa insulin-like growth factor-binding protein: immunohistological distribution and localization in the adult and fetus. Waites GT, et al. **J Endocrinol** 1990 Feb; 124(2):333–9

Porcine endometrial prolactin receptors detected by homologous radioreceptor assay. Young KH, et al. **Mol Cell Endocrinol** 1989 Jul;64(2):145–54

[Immunohistologic and biochemical estrogen and progesterone receptor detection in the normal endometrium] Mitze M, et al. **Arch Gynecol Obstet** 1989; 245(1-4):1019–21 (Ger)

[The estrogen receptors of the endometrial plasma membranes in proliferative processes in the postmenopause] Savel'eva GM, et al. **Akush Ginekol (Mosk)** 1989 Dec; (12):60–3 (Eng. Abstr.) (Rus)

[The dependence of estradiol and progesterone reception in the endometrium on its histological structure in women with the syndrome of luteal phase failure] Savchenko ON, et al. **Probl Endokrinol (Mosk)** 1990 Jan-Feb;36(1):44–8 (Eng. Abstr.) (Rus)

ANATOMY & HISTOLOGY

Transvaginal sonography (TVS) of the endometrium: current and potential clinical applications. Fleischer AC, et al. **Crit Rev Diagn Imaging** 1990;30(2):85–110 (16 ref.)

Prediction of implantation by the sonographic appearance of the endometrium during controlled ovarian stimulation for in vitro fertilization (IVF). Gonen Y, et al. **J In Vitro Fert Embryo Transf** 1990 Jun;7(3):146–52

Transvaginal sonography of the endometrium during ovum pickup in stimulated cycles for in vitro fertilization. Welker BG, et al. **J Ultrasound Med** 1989 Oct;8(10):549–53

Transvaginal scanning of the endometrium. Fleischer AC, et al. **JCU** 1990 May;18(4):337–49 (13 ref.)

[The chambers of the bovine uterus during early pregnancy. A comparative morphologic, sonographic and nuclear spin tomographic findings] Kähn W, et al. **Zentralbl Veterinarmed [A]** 1989 Nov;36(9):641–52 (Eng. Abstr.) (Ger)

[The role of ultrasonic examination using a vaginal sector probe in the evaluation of the endometrium and follicles during spontaneous and stimulated ovulation] Ezuita Ia, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):58–9 (Rus)

BLOOD SUPPLY

[Structure of the microcirculatory bed in uterine endometriosis] Suprun LIa, et al. **Akush Ginekol (Mosk)** 1990 Feb;(2):30–3 (Eng. Abstr.) (Rus)

CYTOLOGY

Collagen degradation and mucosal mast cell in endometrium of mouse uterus during early postpartum period. Miyoshi K, et al. **Acta Anat (Basel)** 1990;137(1):86–92

Separation and culture of ovine endometrial epithelial and stromal cells: evidence of morphological and functional polarity. Cherny RA, et al. **Biol Reprod** 1990 Aug; 43(2):241–50

Weak direct proliferative action of estradiol on human endometrial cells in culture. David JF, et al. **Bull Assoc Anat (Nancy)** 1990 Mar;74(224):51–5

Rabbit endometrium in organ culture: morphological evidence for progestational differentiation in vitro. Hohn HP, et al. **Cell Tissue Res** 1989 Sep;257(3):505–18

Effects of substrata on the polarization of bovine endometrial epithelial cells in vitro. Munson L, et al. **Cell Tissue Res** 1990 Jul;261(1):155–61

Culture of human endometrial cells under polarizing conditions. Schatz F, et al. **Differentiation** 1990 Feb; 42(3):184–90

Hormonal regulation of human endometrial stromal cells in culture: an in vitro model for decidualization. Irwin JC, et al. **Fertil Steril** 1989 Nov;52(5):761–8

Development of a method to isolate and culture highly purified populations of stromal and epithelial cells from human endometrial biopsy specimens. Osteen KG, et al. **Fertil Steril** 1989 Dec;52(6):965–72

Noncompetitive antiestrogenic effect of RU 486 in blocking the estrogen-stimulated luteinizing hormone surge and the proliferative action of estradiol on endometrium in castrate monkeys. Wolf JP, et al. **Fertil Steril** 1989 Dec; 52(6):1055–60

Human endometrial cells grown on an extracellular matrix form simple columnar epithelia and glands. White TE, et al. **In Vitro Cell Dev Biol** 1990 Jun;26(6):636–42

Modulation of human endometrial stromal cell morphology and cell growth on various types of collagen substrates in vitro. Negami AI, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Mar;42(3):287–8

Establishment of rat endometrial cell lines by retroviral mediated transfer of immortalizing and transforming oncogenes. Wiehle RD, et al. **Oncogene** 1990 Jun; 5(6):787–94

[Action of estradiol-17 beta, estrone sulfate and progesterone on the growth and differentiation of endometrial epithelial cells of the guinea pig in primary culture] Alkhalaf M, et al. **C R Soc Biol (Paris)** 1989;183(2):157–65 (Eng. Abstr.) (Fre)

[A morphological study of glandular formation and epithelialization from normal human endometrial epithelial cells in vitro] Negami AI. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Dec; 41(12):1983–90 (Eng. Abstr.) (Jpn)

[Granular biogenic amine-containing cells of the rat endometrium as components of the system of mononuclear phagocytes] Gunin AG, et al. **Arkh Anat Gistol Embriol** 1990 Jan;98(1):68–70 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Progesterone regulation of prolactin release from human endometrial stromal cells in culture: potential bioassay for progestational activity. Casslén BG, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):137–44

Histologic studies on endometrium of menstruating monkeys wearing IUDs: comparative evaluation of drugs. Barthwal M, et al. **Adv Contracept** 1990 Jun;6(2):113–24

Effect of indomethacin and prostaglandin E2 on structural differentiation of rat endometrium during artificially induced decidualization. Keys JL, et al. **Am J Anat** 1990 Jun;188(2):148–62

Cyclic AMP response to recombinant human relaxin by cultured human endometrial cells—a specific and high throughput in vitro bioassay. Fei DT, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):214–22

Prolonged endometrial stimulation associated with oestradiol implants. Gangar KF, et al. **BMJ** 1990 Feb 17; 300(6722):436–8

Variable effects of RU 486 on endometrial maintenance in the luteal phase extended by exogenous hCG. Croxatto HB, et al. **Clin Endocrinol (Oxf)** 1989 Jul;31(1):15–23

Effect of cupric ions on the initiation protein synthesis rate in the human endometrium. Hernandez-Perez O, et al. **Contraception** 1989 Dec;40(6):751–61

Pituitary, ovarian and endometrial effects of 300 micrograms norethisterone and 30 micrograms levonorgestrel administered on cycle days 7 to 10. Landgren BM, et al. **Contraception** 1990 Jun;41(6):569–81

The effect of intrauterine devices (stainless steel ring, copper-T220 and levonorgestrel) on the DNA content in isolated human endometrial cells. Zhu PD, et al. **Contraception** 1989 Nov;40(5):591–604

Effects of relaxin on the endothelium of endometrial blood vessels in monkeys (Macaca mulatta). Hisaw FL, et al. **Endocrinology** 1967 Aug;81(2):375–85

Effect of clomiphene citrate on endometrial receptivity [letter] Harper MJ. **Fertil Steril** 1990 Sep;54(3):542

Sequential endometrial alterations during one cycle of treatment with synthetic progestagen-estrogen compounds. Roland M, et al. **Fertil Steril** 1966 May-Jun;17(3):338–50

Transfer of cryopreserved-thawed embryos: the natural cycle versus controlled preparation of the endometrium with gonadotropin-releasing hormone agonist and exogenous estradiol and progesterone (GEEP). Schmidt CL, et al. **Fertil Steril** 1989 Oct;52(4):609–16

Estradiol and progesterone replacement regimens for the induction of endometrial receptivity. Steingold K, et al. **Fertil Steril** 1989 Nov;52(5):756–60

Progesterone versus dehydrogesterone as replacement therapy in women with premature ovarian failure. Pellicer A, et al. **Hum Reprod** 1989 Oct;4(7):777–81

The effect of RU 486 administered during the early luteal phase on bleeding pattern, hormonal parameters and endometrium. Swahn ML, et al. **Hum Reprod** 1990 May; 5(4):402–8

The effect of exogenous gonadotropic hormones on the endometrium of the rat. Stein B, et al. **J Anat** 1989 Jun; 164:123–30

Hormonal regulation of prostaglandin production by rhesus monkey endometrium. Eldering JA, et al. **J Clin Endocrinol Metab** 1990 Sep;71(3):596–604

RU 486 (mifepristone): induction of dose dependent elevations of estradiol receptor in endometrium from ovariectomized monkeys. Neulen J, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):1074–5

Interleukin-1 (IL-1) regulation of human endometrial function: presence of IL-1 receptor correlates with IL-1-stimulated prostaglandin E2 production. Tabibzadeh S, et al. **J Clin Endocrinol Metab** 1990 Apr;70(4):1000–6

Differential effects of progestin and relaxin on the synthesis and secretion of immunoreactive prolactin in long term culture of human endometrial stromal cells. Zhu HH, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):889–99

Specific effect of oestrone sulphate on protein synthesis and secretion by cultured epithelial cells from guinea-pig endometrium. Chaminadas G, et al. **J Endocrinol** 1989 Nov; 123(2):233–41

Endometrial response to deciduogenic stimulus in ovariectomized rhesus monkeys treated with oestrogen and progesterone: an ultrastructural study. Sengupta J, et al. **J Endocrinol** 1990 Jan;124(1):53–7

Steroid hormone regulation of the earliest endometrial responses to implantation in the rat. Kraicer PF, et al. **J Reprod Fertil Suppl** 1989;37:121–6

In vitro evaluation of estrogenic, estrogen antagonistic and progestagenic effects of a steroidal drug (Org OD-14) and its metabolites on human endometrium. Markiewicz L, et al. **J Steroid Biochem** 1990 Apr;35(5):535–41

Transdermal administration of oestrogen/progestagen hormone replacement therapy. Whitehead MI, et al. **Lancet** 1990 Feb 10;335(8685):310–2

Vaginal administration of low-dose oestradiol—effects on the endometrium and vaginal cytology. Mattsson LA, et al. **Maturitas** 1989 Sep;11(3):217–22

Consensus statement on progestin use in postmenopausal women. Utian WH. **Maturitas** 1989 Sep;11(3):175–7 (0 ref.)

Endometrial response to estrogen-androgen stimulation. Gelfand MM, et al. **Prog Clin Biol Res** 1989;320:29–40 (42 ref.)

Effects of progestogens on the endometrium. Schenken RS, et al. **Prog Clin Biol Res** 1989;320:1–28 (34 ref.)

Effect of megestrol acetate on the endometrium of the prepubertally ovariectomised kitten. Bellenger CR, et al. **Res Vet Sci** 1990 Jan;48(1):112–8

Effect of a bradykinin potentiating fraction, from venom of the Egyptian scorpion, Buthus occitanus, on the ovaries and endometrium of mice. Nassar AY, et al. **Toxicon** 1990; 28(5):525–34

[Histologic changes of the endometrium after Danazol treatment] Szarvas Z, et al. **Morphol Igazsagugyi Orv Sz** 1989 Jul;29(3):171–7 (Eng. Abstr.) (Hun)

[Effect of RU 486 on glycogen metabolism in endometrium] Kawano T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Oct;41(10):1507–11 (Eng. Abstr.) (Jpn)

ENZYMOLOGY

Hormone regulated enzyme activities of plasma membrane of decidual endometrium of the rat. Yunghans WN, et al. **Biochem Int** 1990;21(2):377–85

Local alteration in adenylate cyclase activity and stimulation response at implantation site in rabbit endometrium during early pregnancy. Fortier MA, et al. **Biol Reprod** 1990 Jan; 42(1):106–13

The histochemistry of oestradiol-17 beta dehydrogenase in normal endometrium and endometrial carcinoma: a test to predict the sensitivity of endometrial carcinoma to progestogens: a preliminary report. Lane G, et al. **Br J Obstet Gynaecol** 1990 Aug;97(8):742–4

The histochemistry of isocitric and oestradiol-17 beta dehydrogenases in the endometrium of postmenopausal women treated with oestrogens and progestogens. Lane G. **Histochem J** 1990 Jan;22(1):45–50

Regulation of fatty acid synthetase ribonucleic acid in the human endometrium during the menstrual cycle. Escot C,

et al. **J Clin Endocrinol Metab** 1990 May;70(5):1319–24

17 beta-Hydroxysteroid oxidoreductase activity in the endometrium of normal women and patients with pelvic pain and polycystic ovaries. Bonney RC, et al. **J Steroid Biochem** 1989;34(1–6):535–9

Immunologic identification of the aromatase enzyme system in human endometrium. Huang JR, et al. **J Steroid Biochem** 1989 Dec;33(6):1043–7

Immunohistochemical localization of prostaglandin H synthase in the embryo and uterus of the mouse from ovulation through implantation. Marshburn PB, et al. **Mol Reprod Dev** 1990 Apr;25(4):309–16

Progesterone induces expression of endometrial messenger RNA encoding for cyclooxygenase (sheep). Eggleston DL, et al. **Prostaglandins** 1990 Jun;39(6):675–83

IMMUNOLOGY

Expression of leukocyte adhesion molecules in human endometrium. Tabibzadeh SS, et al. **Am J Clin Pathol** 1990 Feb;93(2):183–9

Epithelial cells from normal human endometrium express a tumor-associated glycoprotein (TAG-72) epitope in vitro. Osteen KG, et al. **Am J Obstet Gynecol** 1990 Aug; 163(2):479–84

The immune function of the endometrium. Lea RG, et al. **Baillieres Clin Obstet Gynaecol** 1989 Jun;3(2):293–313 (115 ref.)

Menstrual-cycle-dependent expression of keratan sulphate in human endometrium. Hoadley ME, et al. **Biochem J** 1990 Mar 15;266(3):757–63

Localization of anti-endometrial antibody binding in women with endometriosis using a double-labelling immunohistochemical method. Kennedy SH, et al. **Br J Obstet Gynaecol** 1990 Aug;97(8):671–4

CA 19-9, CA 125 and CEA in the endometrial mucosa during the menstrual cycle, in atypical hyperplasia and endometrial carcinoma. Neunteufel W, et al. **Cancer Lett** 1989 Nov 15;48(1):77–83

Endometrial antibodies in serum and peritoneal fluid of infertile patients with and without endometriosis. Badaway SZ, et al. **Fertil Steril** 1990 May;53(5):930–2

Endometrial autoantigens eliciting immunoglobulin (Ig)G, IgA, and IgM responses in endometriosis. Mathur S, et al. **Fertil Steril** 1990 Jul;54(1):56–63

Antiendometrial antibodies in endometriosis measured by an enzyme-linked immunosorbent assay before and after treatment with danazol and nafarelin. Kennedy SH, et al. **Obstet Gynecol** 1990 Jun;75(6):914–8

[Immunoactive cells in endometrial tissue in various phases of the female ovulatory cycle] Bonatz G. **Arch Gynecol Obstet** 1989;245(1–4):875–7 **(Ger)**

[Detection of T-lymphocytes in human endometrium] Böhme M, et al. **Zentralbl Gynakol** 1989;111(18):1205–14 (Eng. Abstr.) **(Ger)**

METABOLISM

Collagen degradation and mucosal mast cell in endometrium of mouse uterus during early postpartum period. Miyoshi K, et al. **Acta Anat (Basel)** 1990;137(1):86–92

In vitro induction of prolactin production and aromatase activity by gonadal steroids exclusively in the stroma of separated proliferative human endometrium. Randolph JF Jr, et al. **Am J Obstet Gynecol** 1990 Apr;162(4):1109–14

Immunohistochemical demonstration of renin in the endometrium. Raju GC, et al. **Ann Acad Med Singapore** 1989 Jul;18(4):345–7

Steroid conjugate formed by human endometrium. Garzón P, et al. **Arch Invest Med (Mex)** 1989 Apr-Jun;20(2):113–22

Steroid interactions with plasma membrane of decidual endometrium of the rat. Yunghans WN, et al. **Biochem Int** 1990;21(2):387–95

Platelet-activating factor in human luteal phase endometrium. Alecozay AA, et al. **Biol Reprod** 1989 Oct; 41(4):578–86

Rabbit endometrial relaxin: immunohistochemical localization during preimplantation, pregnancy, and lactation. Lee VH, et al. **Biol Reprod** 1990 Apr;42(4):737–45

Oxytocin-stimulated inositol phosphate turnover in endometrium of ewes is influenced by stage of the estrous cycle, pregnancy, and intrauterine infusion of ovine conceptus secretory proteins. Mirando MA, et al. **Biol Reprod** 1990 Jan;42(1):98–105

CA 125 is an excretory product of human endometrial glands. Weintraub J, et al. **Biol Reprod** 1990 Apr;42(4):721–6

Insulin-like growth factor I receptors in normal and neoplastic human endometrium. Talavera F, et al. **Cancer Res** 1990 May 15;50(10):3019–24

Uptake of tritiated uteroglobin by the endometrium of the rabbit during peri-implantation. Dannhorn DR, et al. **Cell Tissue Res** 1990 Mar;259(3):519–28

Catecholamine inactivation in uterine tissues: changes in pregnancy in the rat. Kennedy JA, et al. **Clin Exp Pharmacol Physiol** 1988 Sep;15(9):675–80

Oxytocin and vasopressin receptors in bovine endometrium and myometrium during the estrous cycle and early pregnancy. Fuchs AR, et al. **Endocrinology** 1990 Aug; 127(2):629–36

Reorientation of prostaglandin F secretion by calcium ionophore, estradiol, and prolactin in perifused porcine endometrium. Gross TS, et al. **Endocrinology** 1990 Aug; 127(2):637–42

Characterization of a temperature-sensitive beta-endorphin-secreting transformed endometrial cell line. Li WI, et al. **Endocrinology** 1989 Dec;125(6):2862–7

Metabolism of 17 beta-estradiol and estrone by human proliferative endometrium and myometrium. Sweat ML, et al. **Endocrinology** 1967 Aug;81(2):167–72

Modification of number and of affinity of endometrial EGF receptors during the menstrual cycle. Bonaccorsi G, et al. **Eur J Obstet Gynecol Reprod Biol** 1989 Nov;33(2):177–82

Prostaglandin F2 alpha synthesis and metabolism by luteal phase endometrium in vitro. Brumsted JR, et al. **Fertil Steril** 1989 Nov;52(5):769–73

Endometrial synthesis and secretion of complement component-3 by patients with and without endometriosis. Isaacson KB, et al. **Fertil Steril** 1990 May;53(5):836–41

Medroxyprogesterone acetate binding sites in human endometrium and endometrial cancer. Ohno Y, et al. **Gynecol Obstet Invest** 1990;29(3):227–31

Differences in lectin binding patterns of normal endometrium and endometrial adenocarcinoma, with special reference to staining with Ulex europeus agglutinin 1 and peanut agglutinin. Aoki D, et al. **Gynecol Oncol** 1990 Jun; 37(3):338–45

Identification of specific serum proteins synthesized de novo by monolayer cultures of glandular cells of gestational endometrium. Fay TN, et al. **Hum Reprod** 1990 Jan; 5(1):14–8

Endometrial assessment in a group of infertile women on stimulated cycles for IVF: immunohistochemical findings. Manners CV. **Hum Reprod** 1990 Feb;5(2):128–32

Differences between Brahman and Holstein cows in heat-shock induced alterations of protein synthesis and secretion by oviducts and uterine endometrium. Malayer JR, et al. **J Anim Sci** 1990 Jan;68(1):266–80

In vitro synthesis of prostaglandin E and F2 alpha by pig endometrium in the presence of estradiol, catechol estrogen and ascorbic acid. Rosenkrans CF Jr, et al. **J Anim Sci** 1990 Feb;68(2):435–43

A novel family of progesterone-induced, retinol-binding proteins from uterine secretions of the pig. Clawitter J, et al. **J Biol Chem** 1990 Feb 25;265(6):3248–55

Estrone sulfate sulfatase activity is increased during in vitro decidualization of stromal cells from human endometrium. Benedetto MT, et al. **J Clin Endocrinol Metab** 1990 Feb; 70(2):342–5

De novo synthesis of placental protein-14 (PP14) and not PP12 by monolayer cultures of glandular epithelium of gestational endometrium. Fay TN, et al. **J Clin Endocrinol Metab** 1990 Feb;70(2):515–8

Production and secretion of complement component 3 by endometriotic tissue. Isaacson KB, et al. **J Clin Endocrinol Metab** 1989 Nov;69(5):1003–9

Cathepsin-D in human endometrium: induction by progesterone and potential value as a tumor marker. Maudelonde T, et al. **J Clin Endocrinol Metab** 1990 Jan; 70(1):115–21

Evidence of T-cell activation and potential cytokine action in human endometrium. Tabibzadeh S. **J Clin Endocrinol Metab** 1990 Sep;71(3):645–9

Characterization of endometrial and myometrial oxytocin receptors in the non-pregnant ewe. Ayad VJ, et al. **J Endocrinol** 1989 Oct;123(1):11–8

The effects of cholera toxin, pertussis toxin, sodium fluoride and alpha-interferon on prostaglandin production by the guinea-pig endometrium. Leckie CM, et al. **J Reprod Fertil** 1990 May;89(1):325–33

Two-dimensional polyacrylamide gel electrophoresis of proteins synthesized and released by conceptuses and endometria from pony mares. McDowell KJ, et al. **J Reprod Fertil** 1990 May;89(1):107–15

Characterization of glycoconjugates in the bovine endometrium and chorion by lectin histochemistry. Munson L, et al. **J Reprod Fertil** 1989 Nov;87(2):509–17

Effect of ovine trophoblast protein-1, oestrogen and progesterone on oxytocin-induced phosphatidylinositol turnover in endometrium of sheep. Vallet JL, et al. **J Reprod Fertil** 1989 Nov;87(2):755–61

Prostaglandin production by horse embryos and the effect of co-culture of embryos with endometrium from pregnant mares. Watson ED, et al. **J Reprod Fertil** 1989 Sep; 87(1):331–6

Tenascin expression in the human endometrium and in endometrial adenocarcinomas. Vollmer G, et al. **Lab Invest** 1990 Jun;62(6):725–30

Immunocytochemical assay of progesterone receptors in paraffin-embedded specimens of endometrial carcinoma and hyperplasia: a preliminary evaluation. Brustein S, et al. **Mod Pathol** 1989 Sep;2(5):449–55

Extensive homology between the Escherichia coli K-12 SerC(PdxF) aminotransferase and a protein encoded by a progesterone-induced mRNA in rabbit and human endometria. van der Zel A, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8379

Simultaneous autoradiography and line immunoelectrophoresis (ARLIE): a novel combination to identify de novo protein synthesis by pregnancy tissues. Fay TN, et al. **Placenta** 1989 Nov-Dec;10(6):543–51

Monoclonal antibodies to T cell receptor gamma/delta complex react with human endometrial glandular epithelium. Yeh CJ, et al. **Placenta** 1990 May-Jun; 11(3):253–61

Endometrial oxytocin binding sites in normal women and in subfertile patients. Baker PN, et al. **Postgrad Med J** 1990 Mar;66(773):195–9

Uptake, distribution and release of 3H-arachidonic acid from human endometrium. Bonney RC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Feb; 39(2):111–7

Is the inhibitory effect of progesterone on endometrial prostaglandin F2 alpha production due to an inhibition of protein synthesis? Riley SC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1990 Mar; 39(3):189–96

Regulation of c-fos expression in primary culture of guinea pig glandular epithelial cells stimulated by growth factors and estradiol. Jouvenot M, et al. **Reprod Nutr Dev** 1990; 30(3):455–8

Estradiol stimulation of inositolphospholipid metabolism in human endometrial fibroblasts. Iida K, et al. **Res Commun Chem Pathol Pharmacol** 1989 Nov; 66(2):329–32

Ovarian steroid hormones and endometrial response. Balasch J. **Rev Esp Fisiol** 1990 Mar;46(1):79–82

Effects of estrogen on progesterone receptor synthesis during endometrial cell culture. Chen TJ, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 May;88(5):456–61

Steroid receptors and proliferative activity in non-neoplastic and neoplastic endometria. Pickartz H, et al. **Virchows Arch [A]** 1990;417(2):163–71

[Chronological changes in sex steroids and prostaglandins receptor concentrations in rat endometrium during peri-implantation period] Takahashi T. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Sep; 41(9):1463–70 (Eng. Abstr.) **(Jpn)**

[Fundamental and clinical studies on biochemical properties of endometriosis in comparison with endometrium] Taketani Y. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Aug;41(8):971–80; discussion 1000–7 (Eng. Abstr.) **(Jpn)**

[Changes in the levels of precursors of endogenous synthesis of prostaglandins in intrauterine contraception] Klimets II, et al. **Akush Ginekol (Mosk)** 1989 Oct;(10):63–4 **(Rus)**

[Characteristics of a transcortin-binding component of the plasma membrane of cells of the human decidual endometrium] Avvakumov GV, et al. **Biokhimiia** 1989 Aug;54(8):1373–8 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Endometrial flora of infertile women in Zaria, northern Nigeria. Emembolu JO. **Int J Gynaecol Obstet** 1989 Oct; 30(2):155–9

Endometrial bacteria in asymptomatic, nonpregnant women. Hemsell DL, et al. **J Reprod Med** 1989 Nov;34(11):872–4

Comparison of two endometrial sampling devices. Cotton-tipped swab and double-lumen catheter with a brush. Martens MG, et al. **J Reprod Med** 1989 Nov; 34(11):875–9

[Isolation of Chlamydia trachomatis from the endometrium and endometritis. Apropos of a series of 42 patients] Zorn B, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989; 18(5):627–34 (Eng. Abstr.) **(Fre)**

PATHOLOGY

Endobrush sampling for endometrial cancer. Vuopala S, et al. **Acta Obstet Gynecol Scand** 1989;68(4):345–50

Endometrial assessment by vaginal ultraaonography before endometrial sampling in patients with postmenopausal bleeding. Goldstein SR, et al. **Am J Obstet Gynecol** 1990 Jul;163(1 Pt 1):119–23

Double endometrial aspirative biopsy [letter] Quilez M, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1426–7

Biochemical evaluation of endometrial biopsies by magnetic resonance spectroscopy—preliminary data. Raman J, et al. **Am J Obstet Gynecol** 1990 Jun;162(6):1511–5; discussion 1515–7

Endometrial involution [letter; comment] Ritter J, et al. **Am J Obstet Gynecol** 1990 May;162(5):1360–1 Comment on: Am J Obstet Gynecol 1989 Mar;160(3):598–9.

Endometrial histopathology in patients with culture-proved upper genital tract infection and laparoscopically diagnosed acute salpingitis. Kiviat NB, et al. **Am J Surg Pathol** 1990 Feb;14(2):167–75

Ultrasonography of endometrium. Ylöstalo PR. **Ann Med** 1990 Apr;22(2):105–8 (24 ref.)

Cycle- and function-related changes in lectin binding to human endometrium: a histochemical study with pronase treatment. Kupryjańczyk J. **Arch Gynecol Obstet** 1989; 246(4):211–21

A quantitative study of endometrial development in the luteal phase: comparison between women with unexplained infertility and normal fertility. Li TC, et al. **Br J Obstet Gynaecol** 1990 Jul;97(7):576–82

Correlation of ultrasound findings and endometrial histopathology in postmenopausal women. Nasri MN, et al. **Br J Obstet Gynaecol** 1989 Nov;96(11):1333–8

Use of Gynocheck endometrial tissue sampler in infertility. Smith RN. **Br J Obstet Gynaecol** 1990 May;97(5):454–5

The effect of intrauterine devices, the stainless steel ring, the copper T220, and releasing levonorgestrel, on the bleeding profile and the morphological structure of the human endometrium—a comparative study of three IUDs. A morphometric study of 96 cases. Zhu PD, et al. **Contraception** 1989 Oct;40(4):425–38

Cytopathological changes in human cervix and endometrium

following prolonged retention of copper-bearing intrauterine contraceptive devices. Misra JS, et al. **Diagn Cytopathol** 1989;5(3):237–42

Effect of preovulatory progesterone administration on the endometrial maturation and implantation rate after in vitro fertilization and embryo transfer. Ben-Nun I, et al. **Fertil Steril** 1990 Feb;53(2):276–81

Morphometric analysis of the endometrium of infertile patients in relation to peripheral hormone levels. Bonhoff A, et al. **Fertil Steril** 1990 Jul;54(1):84–9

Structural and ultrastructural defects in preovulatory endometrium of normo-ovulating infertile women with minimal or mild endometriosis. Fedele L, et al. **Fertil Steril** 1990 Jun;53(6):989–93

Use of a sensitive urine pregnancy test before endometrial biopsies taken in the late luteal phase. Herbert CM, et al. **Fertil Steril** 1990 Jan;53(1):162–4

Improved prediction of postovulatory day using temperature recording, endometrial biopsy, and serum progesterone. Pillet MC, et al. **Fertil Steril** 1990 Apr;53(4):614–9

Dissemination of endometrial cells during carbon dioxide hysteroscopy and chromotubation among infertile patients. Ranta H, et al. **Fertil Steril** 1990 Apr;53(4):751–3

Carcinoma of the cervix with extensive endometrial and myometrial involvement. de Jesus M, et al. **Gynecol Oncol** 1990 Feb;36(2):263–70 (29 ref.)

Value of immunohistochemical demonstration of several epithelial markers in hyperplastic and neoplastic endometrium. Nakopoulou L, et al. **Gynecol Oncol** 1990 Jun;37(3):346–53

Intestinal metaplasia of the endometrium. Wells M, et al. **Histopathology** 1989 Oct;15(4):431–3

Effects of natural progesterone on the morphology of the endometrium in patients with primary ovarian failure. Bourgain C, et al. **Hum Reprod** 1990 Jul;5(5):537–43

Outpatient endometrial biopsy: clinical, endocrinologic and histologic consequences. Li TC, et al. **Int J Gynaecol Obstet** 1990 Jan;31(1):35–41

Delayed abdominal pain after outpatient endometrial biopsy in the luteal phase. Li TC, et al. **Int J Gynaecol Obstet** 1990 Jul;32(3):267–8

Implications of sampling the implantation site in the endometrial biopsy for infertility. Kaminski PF, et al. **J Reprod Med** 1990 Mar;35(3):208–10

Endometrial hyperplasia: value of endometrial thickness in ultrasonographic diagnosis and clinical significance. Malpani A, et al. **JCU** 1990 Mar-Apr;18(3):173–7

Endometrial patterns during danazol and buserelin therapy for endometriosis: comparative structural and ultrastructural study. Fedele L, et al. **Obstet Gynecol** 1990 Jul;76(1):79–84

Endometrium of cavitary rudimentary horns in unicornuate uteri. Fedele L, et al. **Obstet Gynecol** 1990 Mar;75(3 Pt 1):437–40

A randomized clinical trial comparing Pipelle and Tis-u-trap for endometrial biopsy [letter] Frishman G, et al. **Obstet Gynecol** 1990 Aug;76(2):315–6

A randomized clinical trial comparing Pipelle and Tis-u-trap for endometrial biopsy. Koonings PP, et al. **Obstet Gynecol** 1990 Feb;75(2):293–5

Interruption of murine pregnancy by activation of antigen-non-specific killer cells in the endometrium with indomethacin, high dose IL-2 or a combination. Lala PK. **Res Immunol** 1990 Feb;141(2):159–64 (42 ref.)

Transvaginal and transabdominal sonography of the endometrium. Fleischer AC, et al. **Semin Ultrasound CT MR** 1988 Apr;9(2):81–101 (15 ref.)

Pyometra in a Friesian heifer: bacteriological and endometrial changes. Noakes DE, et al. **Vet Rec** 1990 May 19; 126(20):509

[Histology of the endometrium in cows in normal and pathologic puerperium] Kummer V, et al. **Vet Med (Praha)** 1989 Oct;34(10):603–12 (Eng. Abstr.) **(Cze)**

[Comparison of endometrial changes in extra and intrauterine pregnancies. A clinical patho-anatomic study] Nielsen MN, et al. **Ugeskr Laeger** 1989 Oct 2;151(40):2586–8 (Eng. Abstr.) **(Dan)**

[Endometrial ossification. Apropos of 5 recent cases] Camus M, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1990; 19(3):295–300 (Eng. Abstr.) **(Fre)**

[Transvaginal follicle puncture and endometrial structure] Welker BG, et al. **Arch Gynecol Obstet** 1989;245(1-4):893–5 **(Ger)**

[Cytologic endometrium diagnosis with a new combination instrument, the Endoshave] Caniels B, et al. **Geburtshilfe Frauenheilkd** 1990 Jun;50(6):477–82 (Eng. Abstr.) **(Ger)**

[Determination of prolactin concentration in endometrium in the histologically normal secretory phase and in delayed transformation] Denck D, et al. **Geburtshilfe Frauenheilkd** 1990 Jun;50(6):434–8 (Eng. Abstr.) **(Ger)**

[Comparison of vaginal ultrasound and histologic findings of the endometrium] Klug PW, et al. **Geburtshilfe Frauenheilkd** 1989 Sep;49(9):797–802 (Eng. Abstr.) **(Ger)**

[Immunohistochemical receptor findings in the endometrium and therapeutic consequences in endogenous and exogenous functional disorders and cancer] Lang G, et al. **Geburtshilfe Frauenheilkd** 1989 Dec;49(12):1044–9 (Eng. Abstr.) **(Ger)**

[Immunohistochemical detection of estrogen and progesterone receptors in paraffin sections] Snijders M, et al. **Pathologe** 1990 Jul;11(4):236–9 **(Ger)**

[Echographic evaluation of the endometrium after multifollicular ovarian stimulation with gonadotropin] Za G, et al. **Minerva Ginecol** 1990 Jan-Feb;42(1-2):15–8 (Eng. Abstr.) **(Ita)**

[Ultrasonographic evaluation of the endometrium in postmenopausal women to select the high risk group of endometrial carcinoma of the uterus] Kawabata M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1989 Oct; 41(10):1512–6 (Eng. Abstr.) **(Jpn)**

[Morphofunctional characteristics of the uterus in dystrophic changes and necrosis in leiomyoma] Zheleznov BI, et al. **Akush Ginekol (Mosk)** 1990 Feb;(2):21–4 (Eng. Abstr.) **(Rus)**

[Biometric research in the cytomorphological diagnosis of endometrial lesions] Novik VI, et al. **Eksp Onkol** 1990; 12(2):30–3 (Eng. Abstr.) **(Rus)**

[Histopathological evaluation of the endometrium in premenopausal bleeding] Jovićević V, et al. **Med Pregl** 1989;42(11-12):461–2 (Eng. Abstr.) **(Scr)**

[Cytologic endometrial diagnosis can improve the quality of health care] Bistoletti P, et al. **Lakartidningen** 1990 May 16;87(20):1765–6 **(Swe)**

PHYSIOLOGY

The effects of steroids on the fine structure of the endometrium. Dockery P, et al. **Baillieres Clin Obstet Gynaecol** 1989 Jun;3(2):227–48 (86 ref.)

Prostaglandins and growth factors in the endometrium. Smith SK. **Baillieres Clin Obstet Gynaecol** 1989 Jun;3(2):249–70 (130 ref.)

Fluidity of the phospholipid bilayer of the endometrium at the time of implantation of the blastocyst—a spin label study. Laloraya M. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):561–7

Suppression of lymphocyte reactivity by culture supernatant from horse embryos and endometrium. Watson ED. **Biol Reprod** 1990 Feb;42(2):294–300

Clomiphene citrate directly impairs endometrial receptivity in the mouse. Nelson LM, et al. **Fertil Steril** 1990 Apr; 53(4):727–31

Embryo implantation after human in vitro fertilization: importance of endometrial receptivity. Paulson RJ, et al. **Fertil Steril** 1990 May;53(5):870–4

Influence of superovulation on endometrial and embryonic development. Sharma V, et al. **Fertil Steril** 1990 May; 53(5):822–9

Contribution to the physiology and pathology of endometrial receptivity: the determination of protein patterns in human uterine secretions. Beier-Hellwig K, et al. **Hum Reprod** 1989 Nov;4(8 Suppl):115–20

Ultrasonic evaluation of endometrial growth in women with normal cycles during spontaneous and stimulated cycles. Lenz S, et al. **Hum Reprod** 1990 May;5(4):377–81

Proliferative activity of lymphoid cells in human endometrium throughout the menstrual cycle. Tabibzadeh S. **J Clin Endocrinol Metab** 1990 Feb;70(2):437–43

Double transfer of embryos in in vitro fertilization, or is there a delayed receptivity of the endometrium? Lewin A, et al. **J In Vitro Fert Embryo Transf** 1989 Jun;6(3):139–41

Influence of the endometrium, protease inhibitors and freezing on antiviral activity of proteins secreted by pig conceptuses. Beers S, et al. **J Reprod Fertil** 1990 Jan; 88(1):205–11

Avoidance of used endometrial sites by blastocysts of the bank vole, Clethrionomys glareolus. Nerquaye-Tetteh JO, et al. **J Reprod Fertil** 1990 Jul;89(2):729–34

Regulation of prostaglandin synthesis during early pregnancy in the cow. Kindahl H, et al. **J Reprod Fertil Suppl** 1989; 37:269–76 (21 ref.)

Mechanisms of endometrial bleeding. Fraser IS. **Reprod Fertil Dev** 1990;2(2):193–8 (15 ref.)

[Secretory protein pattern and implantation readiness of the endometrium] Beier-Hellwig K, et al. **Arch Gynecol Obstet** 1989;245(1-4):871–3 **(Ger)**

[A study on the endometrial movement and serum hormonal level in connection with uterine contraction] Oike K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Jan; 42(1):86–92 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

An endometrial factor in unexplained infertility. Graham RA, et al. **BMJ** 1990 Jun 2;300(6737):1428–31

Uterine endometrial peristalsis—a transvaginal ultrasound study. Abramowicz JS, et al. **Fertil Steril** 1990 Sep; 54(3):451–4

Endometrial response to endogenous hormones after pelvic irradiation for genital malignancies. Larson JE, et al. **Gynecol Oncol** 1990 Jan;36(1):106–9

RADIATION EFFECTS

Treatment of functional menorrhagia by radiofrequency-induced thermal endometrial ablation. Phipps JH, et al. **Lancet** 1990 Feb 17;335(8686):374–6

SECRETION

Secretory proteins of the endometrium—potential markers for endometrial dysfunction. Bell SC, et al. **Baillieres Clin Obstet Gynaecol** 1989 Jun;3(2):271–91 (92 ref.)

Progesterone induction of the uterine milk proteins: major secretory proteins of sheep endometrium. Ing NH, et al. **Biol Reprod** 1989 Oct;41(4):643–54

Secretion of the major progesterone-induced proteins of the sheep uterus by caruncular and intercaruncular endometrium of the pregnant ewe from days 20–140 of gestation. Stephenson DC, et al. **Domest Anim Endocrinol** 1989 Oct;6(4):349–62

Neurohypophyseal hormone regulation of endothelin secretion from rabbit endometrial cells in primary culture. Orlando C, et al. **Endocrinology** 1990 Mar;126(3):1780–2

Endometrial protein secretion with respect to endometrial and ovarian function. Seppälä M, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Sep;36(3):250–7 (60 ref.)

Endometrial electrogenic ion secretion in the rat is modulated by prostaglandins. Sebkhi A, et al. **Exp Physiol** 1990 May; 75(3):411–3

Estrogen-progesterone relationships in the development of secretory endometrium. Good RG, et al. **Fertil Steril** 1968 Jan-Feb;19(1):37–49

A biochemical test for the direct assessment of endometrial function: measurement of the major secretory endometrial protein PP14 in serum during menstruation in relation to ovulation and luteal function. Fay TN, et al. **Hum Reprod** 1990 May;5(4):382–6

Serum levels of pregnancy-associated endometrial alpha 2-globulin (alpha 2-PEG), a glycosylated beta-lactoglobulin homologue, in successful and unsuccessful assisted conception. Wood PL, et al. **Hum Reprod** 1990 May;5(4):421–6

Bovine trophoblast protein-1 complex alters endometrial protein and prostaglandin secretion and induces an intracellular inhibitor of prostaglandin synthesis in vitro. Helmer SD, et al. **J Reprod Fertil** 1989 Nov;87(2):421–30

Retention of intrauterine fetal bone increases menstrual prostaglandins. Lewis V, et al. **Obstet Gynecol** 1990 Mar; 75(3 Pt 2):561–3

SURGERY

Fatal venous air embolism following sequential unsheathed (bare) and sheathed quartz fiber Nd:YAG laser endometrial ablation. Challener RC, et al. **Anesthesiology** 1990 Sep; 73(3):548–51

Intrauterine surgery using electrocautery. Hill DJ, et al. **Aust N Z J Obstet Gynaecol** 1990 May;30(2):145–6 (14 ref.)

Absorption of irrigating fluid during transcervical resection of endometrium [letter; comment] **BMJ** 1990 Mar 17; 300(6726):748–9 Comment on: BMJ 1990 Feb 3;300(6720):304–5.

Absorption of glycine irrigating solution during transcervical resection of endometrium [see comments] Baumann R, et al. **BMJ** 1990 Feb 3;300(6720):304–5 Comment in: BMJ 1990 Mar 17;300(6726):748–9. Comment in: BMJ 1990 Apr 7;300(6729):945.

Absorption of irrigating solution during transcervical resection of endometrium [letter] Magos AL, et al. **BMJ** 1990 Apr 21;300(6731):1079

Air embolism during transcervical resection of endometrium [letter; comment] Wood SM, et al. **BMJ** 1990 Apr 7; 300(6729):945 Comment on: BMJ 1990 Feb 3;300(6720):304–5.

Hysteroscopic alternatives to hysterectomy. Garry R. **Br J Obstet Gynaecol** 1990 Mar;97(3):199–202 (31 ref.)

Endometrial resection when hysterectomy is undesirable, dangerous or impossible. Lockwood M, et al. **Br J Obstet Gynaecol** 1990 Jul;97(7):656–8

Planned trial of transcervical resection of the endometrium versus hysterectomy [letter] Stirrat GM, et al. **Br J Obstet Gynaecol** 1990 May;97(5):459

Exuberant xanthogranulomatous-like reaction following endometrial curettage [letter; comment] Lopez JI, et al. **Histopathology** 1989 Sep;15(3):315 Comment on: Histopathology 1988 Nov;13(5):541–51.

Depth of endometrial coagulation with the urologic resectoscope. Indman PD, et al. **J Reprod Med** 1990 Jun; 35(6):633–5

Premenstrual syndrome improvement after laser ablation of the endometrium for menorrhagia. Lefler HT Jr. **J Reprod Med** 1989 Nov;34(11):905–6

Endometrial resection and fluid absorption [letter; comment] **Lancet** 1989 Dec 9;2(8676):1387–8 Comment on: Lancet 1989 Oct 14;2(8668):925–6.

Safety of transcervical endometrial resection [letter] Magos AL, et al. **Lancet** 1990 Jan 6;335(8680):44

Intrauterine surgery under intravenous sedation as an outpatient alternative to hysterectomy [letter] [see comments] Magos AL, et al. **Lancet** 1989 Oct 14; 2(8668):925–6 Comment in: Lancet 1989 Dec 9;2(8676):1387–8.

Hysterectomy or what? [letter] Stirrat GM, et al. **Lancet** 1990 Aug 18;336(8712):445

Endometrial laser ablation in rabbits: a comparative study of three laser types. Rosenberg C, et al. **Lasers Surg Med** 1990;10(1):66–73

Transcervical endometrial resection for abnormal uterine bleeding [letter; comment] **Med J Aust** 1990 Feb 5; 152(3):166–7 Comment on: Med J Aust 1989 Oct 2;151(7):418.

Transcervical endometrial resection for abnormal uterine bleeding [letter] [see comments] Hill DJ, et al. **Med J Aust** 1989 Oct 2;151(7):418 Comment in: Med J Aust 1990 Feb 5;152(3):166–7.

Endometrial ablation with the neodymium:Yag laser. Bent AE, et al. **Obstet Gynecol** 1990 Jun;75(6):923–5

TRANSPLANTATION

Fluorescent detection of rabbit endometrial implants resulting from monodispersed viable cell suspensions. Manyak MJ, et al. **Fertil Steril** 1990 Aug;54(2):356–9

ULTRASTRUCTURE

New possibilities of recognizing early endometrial changes. Patai K, et al. **Acta Chir Hung** 1989;30(4):333–9

Evaluation of histological and ultrastructural aspects of endometrium during treatment with gestrinone in women with amenorrhea or spotting. Fedele L, et al. **Acta Obstet Gynecol Scand** 1990;69(2):143–6

Human fetal endometrium—light and electron microscopic study. Wang T. **Arch Gynecol Obstet** 1989;246(3):169–79

Ultrastructural comparative study on endometrium of Chinese women using intrauterine devices of stainless steel ring, copper T220, and releasing levonorgestrel: morphometry of microvessels. Wang JD, et al. **Contraception** 1990 Apr;41(4):389–97

A morphometric study of the human endometrial stroma during the peri-implantation period. Dockery P, et al. **Hum Reprod** 1990 Feb;5(2):112–6

A morphometric study of the human endometrial stroma during the peri-implantation period. Dockery P, et al. **Hum Reprod** 1990 Jul;5(5):494–8

Ultrastructural characterization of two new human endometrial carcinoma cell lines and normal human endometrial epithelial cells cultured on extracellular matrix. Boyd JA, et al. **In Vitro Cell Dev Biol** 1990 Jul;26(7):701–8

Ultrastructural reappraisal of endometrial glandular changes in women wearing Cu-T200 device for longer duration. Tandon P, et al. **Indian J Pathol Microbiol** 1989 Oct; 32(4):270–5

An ultrastructural study of the effects of gossypol on the endometrium of the female rat. Bender HS, et al. **J Ultrastruct Mol Struct Res** 1988 Nov–Dec; 101(2–3):137–44

[A comparative study of the main components of the nucleolus in different populations of rat trophoblast cells during differentiation. II. The nucleoli of the trophospongium cells, the glycogen cells and the secondary giant cells] Zybina EV, et al. **Tsitologiia** 1989 Dec; 31(12):1428–34 (Eng. Abstr.) **(Rus)**

ENDOMYCETALES

Observations on ultracentrifuging wild-type and mutant (cdc2.33) cells of Schizosaccharomyces pombe. Khar A, et al. **J Cell Sci** 1989 Mar;92 (Pt 3):345–8

ANALYSIS

Immunoprecipitation distinguishes non-overlapping groups of snRNPs in Schizosaccharomyces pombe. Tollervey D, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5207–12

Occurrence of peroxisomal membrane proteins in methylotrophic yeasts grown under different conditions. Sulter GJ, et al. **Yeast** 1990 Jan–Feb;6(1):35–43

CLASSIFICATION

Modes of lactose uptake in the yeast species Kluyveromyces marxianus. Carvalho-Silva M, et al. **Antonie Van Leeuwenhoek** 1990 Feb;57(2):77–81

DNA relatedness among species of the genus Zygosaccharomyces. Kurtzman CP. **Yeast** 1990 May–Jun; 6(3):213–9

Dekkera, Brettanomyces and Eeniella: electrophoretic comparison of enzymes and DNA–DNA homology. Smith MT, et al. **Yeast** 1990 Jul–Aug;6(4):299–310

CYTOLOGY

The fission yeast, Schizosaccharomyces pombe. Mitchison JM. **Bioessays** 1990 Apr;12(4):189–91 (8 ref.)

Intramitotic controls in the fission yeast Schizosaccharomyces pombe: the effect of cell size on spindle length and the timing of mitotic events. Hagan IM, et al. **J Cell Biol** 1990 May;110(5):1617–21

Nucleoside diphosphokinase, an enzyme with step changes in activity during the cell cycle of the fission yeast Schizosaccharomyces pombe. II. Dissociation of the steps from the DNA-division cycle after induction synchronization. Creanor J, et al. **J Cell Sci** 1989 May;93 (Pt 1):185–9

DRUG EFFECTS

Essential role of ferrous iron in cyanide-resistant respiration in Hansenula anomala. Minagawa N, et al. **FEBS Lett** 1990 Jul 2;267(1):114–6

ENZYMOLOGY

Effect of temperature on the lactose hydrolytic capacity of a lactase derived from Kluyveromyces lacti.. Schneider RE, et al. **Am J Clin Nutr** 1990 Feb;51(2):197–201

Regulation of the lysine biosynthesis in Pichia guilliermondii. Schmidt H, et al. **Antonie Van Leeuwenhoek** 1989 Nov; 56(4):337–47

Structural basis for the kinetic differences between flavocytochromes b2 from the yeasts Hansenula anomala and Saccharomyces cerevisiae. Black MT, et al. **Biochem J** 1989 Nov 1;263(3):973–6

Purification and characterization of the invertase from Schizosaccharomyces pombe. A comparative analysis with the invertase from Saccharomyces cerevisiae. Moreno S, et al. **Biochem J** 1990 May 1;267(3):697–702

An unusual extracellular carbohydrase produced by the yeast Lipomyces tetrasporus. Gallagher AM, et al. **Biochem Soc Trans** 1990 Apr;18(2):312–3

Purification and characterization of glycerol-3-phosphate dehydrogenase (NAD+) in the salt-tolerant yeast Debaryomyces hansenii. Nilsson A, et al. **Biochim Biophys Acta** 1990 May 16;1034(2):180–5

Electron microscopy and image analysis of two-dimensional crystals and single molecules of alcohol oxidase from Hansenula polymorpha. Vonck J, et al. **Biochim Biophys Acta** 1990 Mar 29;1038(1):74–9

Expression of invertase activity in Yarrowia lipolytica and its use as a selective marker. Nicaud JM, et al. **Curr Genet** 1989 Oct;16(4):253–60

The pat1 protein kinase controls transcription of the mating-type genes in fission yeast. Nielsen O, et al. **EMBO J** 1990 May;9(5):1401–6

Adenylyl cyclase activity of the fission yeast Schizosaccharomyces pombe is not regulated by guanyl nucleotides. Engelberg D, et al. **FEBS Lett** 1990 Feb 26; 261(2):413–8

Alcohol oxidase of methylotrophic thermo- and acidotolerant yeast Hansenula sp. Bystrykh LV, et al. **Folia Microbiol (Praha)** 1989;34(3):233–7

Extraction, purification and characterization of ADH1 from the budding yeast Kluyveromyces marxianus. Pessione E, et al. **Ital J Biochem** 1990 Mar–Apr;39(2):71–82

Molecular properties of the fungal plasma-membrane [H+]-ATPase. Nakamoto RK, et al. **J Bioenerg Biomembr** 1989 Oct;21(5):621–32 (73 ref.)

Effects of phosphate and hydrophobic molecules on two mutations in the beta-strand sector of the H(+)-ATPase from the yeast plasma membrane. Goffeau A, et al. **J Biol Chem** 1990 Sep 15;265(26):15503–5

A galactosyltransferase from the fission yeast Schizosaccharomyces pombe. Chappell TG, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2693–702

Purification and properties of glycerol:NADP+ 2-oxidoreductase from Schizosaccharomyces pombe. Marshall JH, et al. **J Gen Microbiol** 1989 Mar;135 (Pt 3):697–701

Crystallization of alcohol oxidase from Pichia pastoris. Secondary structure predictions indicate a domain with the eightfold beta/alpha-barrel fold. Tykarska E, et al. **J Protein Chem** 1990 Feb;9(1):83–6

KspI, a novel isoschizomer of SacII from Kluyvera species recognizing 5'-CCGC/GG-3'. Bolton BJ, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9476

Purification and characterization of invertase from a novel industrial yeast, Schwanniomyces occidentalis. Klein RD, et al. **Prep Biochem** 1989;19(4):293–319

Cloning and sequencing of the malate synthase gene from Hansenula polymorpha. Bruinenberg PG, et al. **Yeast** 1990 May–Jun;6(3):245–54

The alcohol dehydrogenase system in the yeast, Kluyveromyces lactis. Saliola M, et al. **Yeast** 1990 May–Jun;6(3):193–204

[Cloning of the RIB1 gene coding for the enzyme of the first stage of flavinogenesis in the yeast Pichia guilliermondi, GTP cyclohydrolase, in Escherichia coli cells] Zakal'skiĭ AE, et al. **Genetika** 1990 Apr;26(4):614–20 (Eng. Abstr.) **(Rus)**

[Properties of 2,5-diamino-4-oxy-6-ribosylaminopyrimidine-5'-phosphate reductase, a enzyme of the second stage of flavinogenesis in Pichia guilliermondii yeasts] Logvinenko EM, et al. **Ukr Biokhim Zh** 1989 Jul–Aug;61(4):47–54 (Eng. Abstr.) **(Rus)**

GENETICS

Candida shehatae—genetic diversity and phylogenetic relationships with other xylose-fermenting yeasts. Kurtzman CP. **Antonie Van Leeuwenhoek** 1990 May; 57(4):215–22

Molecular probes for the detection of Kluyveromyces marxianus chromosomal DNA in electrophoretic karyotypes of intergeneric protoplast fusion products. Witte V, et al. **Arch Microbiol** 1989;152(5):441–6

Structure-function relationships of mitochondrial ATPase-ATPsynthase using Schizosaccharomyces pombe yeast mutants with altered F1 subunits. Di Pietro A, et al. **Biochimie** 1989 Aug;71(8):931–40

The lactose-galactose regulon of Kluyveromyces lactis. Dickson RC, et al. **Biotechnology** 1989;13:19–40 (85 ref.)

Fission yeast. Yamamoto M. **Biotechnology** 1989;13:53–64 (88 ref.)

Snap helix with knob and hole: essential repeats in S. pombe nuclear protein nuc2+. Hirano T, et al. **Cell** 1990 Jan 26; 60(2):319–28

The ERD2 gene determines the specificity of the luminal ER protein retention system. Lewis MJ, et al. **Cell** 1990 Jun 29;61(7):1359–63

The fission yeast cut1+ gene regulates spindle pole body duplication and has homology to the budding yeast ESP1 gene. Uzawa S, et al. **Cell** 1990 Sep 7;62(5):913–25

Controls of cell proliferation in yeast and animals. Norbury C, et al. **Ciba Found Symp** 1990;150:168–77; discussion 177–83 (45 ref.)

The host range of the pKD1-derived plasmids in yeast. Chen XJ, et al. **Curr Genet** 1989 Aug;16(2):95–8

Regulated overproduction of alpha-amylase by transformation of the amylolytic yeast Schwanniomyces occidentalis. Dohmen RJ, et al. **Curr Genet** 1989 May; 15(5):319–25

A ribosomal protein gene family from Schizosaccharomyces pombe consisting of three active members. Gatermann KB, et al. **Curr Genet** 1989 Dec;16(5–6):361–7

Biosynthesis of the peroxisomal dihydroxyacetone synthase from Hansenula polymorpha in Saccharomyces cerevisiae induces growth but not proliferation of peroxisomes. Gödecke A, et al. **Curr Genet** 1989 Jul;16(1):13–20

Deletions and rearrangements in Kluyveromyces lactis mitochondrial DNA. Hardy CM, et al. **Curr Genet** 1989 Dec;16(5–6):419–27

The yeast Yarrowia lipolytica has two, functional, signal recognition particle 7S RNA genes. He F, et al. **Curr Genet** 1990 Apr;17(4):289–92

Two genes encode 7SL RNAs in the yeast Yarrowia lipolytica. He F, et al. **Curr Genet** 1989 Dec;16(5–6):347–50

Construction of an h+S strain of Schizosaccharomyces pombe. Heim L. **Curr Genet** 1990 Jan;17(1):13–9

Evolutionary conservation of transcriptional machinery between yeast and plants as shown by the efficient expression from the CaMV 35S promoter and 35S terminator. Hirt H, et al. **Curr Genet** 1990 Jun;17(6):473–9

Cloning and sequence analysis of the gene encoding invertase from the yeast Schwanniomyces occidentalis. Klein RD, et al. **Curr Genet** 1989 Sep;16(3):145–52

Genetic interactions in the control of mitosis in fission yeast. MacNeill SA, et al. **Curr Genet** 1989 Jul;16(1):1–6 (40 ref.)

A petite positive strain of Kluyveromyces lactis has a 300 kb deletion in the rDNA cluster. Maleszka R, et al. **Curr Genet** 1989 Dec;16(5–6):429–32

Some of the swi genes of Schizosaccharomyces pombe also have a function in the repair of radiation damage. Schmidt H, et al. **Curr Genet** 1989 Aug;16(2):89–94

Structural and functional analysis of ypt2, an essential ras-related gene in the fission yeast Schizosaccharomyces pombe encoding a Sec4 protein homologue. Haubruck H, et al. **EMBO J** 1990 Jun;9(6):1957–62

The ryh1 gene in the fission yeast Schizosaccharomyces pombe encoding a GTP-binding protein related to ras, rho and ypt: structure, expression and identification of its human homologue. Hengst L, et al. **EMBO J** 1990 Jun; 9(6):1949–55

Substrate recognition by RNase P and by the catalytic M1 RNA: identification of possible contact points in pre-tRNAs. Kahle D, et al. **EMBO J** 1990 Jun;9(6):1929–37

Identification of ras-related, YPT family genes in Schizosaccharomyces pombe. Miyake S, et al. **EMBO J** 1990 May;9(5):1417–22

Characterization of Schizosaccharomyces pombe minichromosome deletion derivatives and a functional allocation of their centromere. Niwa O, et al. **EMBO J** 1989 Oct;8(10):3045–52

A mutation in a single gene of Schizosaccharomyces pombe affects the expression of several snRNAs and causes defects in RNA processing. Potashkin J, et al. **EMBO J** 1990 Feb; 9(2):525–34

The rhp6+ gene of Schizosaccharomyces pombe: a structural and functional homolog of the RAD6 gene from the distantly related yeast Saccharomyces cerevisiae. Reynolds P, et al. **EMBO J** 1990 May;9(5):1423–30

A selection for mutants of the RNA polymerase III transcription apparatus: PCF1 stimulates transcription of tRNA and 5S RNA genes. Willis I, et al. **EMBO J** 1989 Dec 20;8(13):4281–8

Isolation and expression in Saccharomyces cerevisiae of a gene encoding an alpha-amylase from Schwanniomyces castellii. Abarca D, et al. **FEBS Lett** 1989 Sep 25; 255(2):455–9

Human chorionic gonadotropin alpha and human cytomegalovirus promoters are extremely active in the fission yeast Schizosaccharomyces pombe. Toyama R, et al. **FEBS Lett** 1990 Jul 30;268(1):217–21

A mating-type-specific sterility gene map1 is required for transcription of a mating-type gene mat1-Pi in the fission yeast Schizosaccharomyces pombe. Fujioka H, et al. **FEMS Microbiol Lett** 1989 Jul 1;51(1):45–8

Assignment of cloned genes to electrophoretically separated chromosomes of the yeast Pachysolen tannophilus. Maleszka R, et al. **FEMS Microbiol Lett** 1990 May; 57(1–2):79–82

A procedure for enrichment and isolation of mutants of the salt-tolerant yeast Debaryomyces hansenii having altered glycerol metabolism. Morales C, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):73–7

Cloning of Schizosaccharomyces pombe genes encoding the U1, U2, U3 and U4 snRNAs. Dandekar T, et al. **Gene** 1989 Sep 30;81(2):227–35

A transcriptionally regulated expression vector for the fission yeast Schizosaccharomyces pombe. Hoffman CS, et al. **Gene** 1989 Dec 14;84(2):473–9

An inducible expression vector for both fission and budding yeast. Picard D, et al. **Gene** 1990 Feb 14;86(2):257–61
Synthesis and secretion of hepatitis B middle surface antigen by the methylotrophic yeast Hansenula polymorpha. Shen SH, et al. **Gene** 1989 Dec 14;84(2):303–9
Expression of a foreign KmR gene in linear killer DNA plasmids in yeast. Tanguy-Rougeau C, et al. **Gene** 1990 Jul 2;91(1):43–50
Isolation and characterization of mutants constitutive for expression of the fbp1 gene of Schizosaccharomyces pombe. Hoffman CS, et al. **Genetics** 1990 Apr;124(4):807–16
Meiotic recombination-deficient mutants of Schizosaccharomyces pombe. Ponticelli AS, et al. **Genetics** 1989 Sep;123(1):45–54
Expression and regulation of glucoamylase from the yeast Schwanniomyces castellii. Dowhanick TM, et al. **J Bacteriol** 1990 May;172(5):2360–6
Cloning and characterization of Kluyveromyces lactis SEC14, a gene whose product stimulates Golgi secretory function in Saccharomyces cerevisiae. Salama SR, et al. **J Bacteriol** 1990 Aug;172(8):4510–21
DNA sequences from Saccharomycopsis fibuligera capable of autonomous replication in Saccharomyces cerevisiae. Jurský F, et al. **J Basic Microbiol** 1990;30(4):301–4
Interaction of yeast transcription factor IIIC with dimeric Schizosaccharomyces pombe tRNA(Ser)-tRNA(Met) genes. Johnson DL, et al. **J Biol Chem** 1989 Nov 15; 264(32):19221–7
nmt1 of fission yeast. A highly transcribed gene completely repressed by thiamine. Maundrell K. **J Biol Chem** 1990 Jul 5;265(19):10857–64
Saccharomyces cerevisiae and Schizosaccharomyces pombe contain a homologue to the 54-kD subunit of the signal recognition particle that in S. cerevisiae is essential for growth. Hann BC, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3223–30
In vitro reactivation of spindle elongation in fission yeast nuc2 mutant cells. Masuda H, et al. **J Cell Biol** 1990 Feb; 110(2):417–25
Higher-order chromosome structure in yeast. Yanagida M. **J Cell Sci** 1990 May;96 (Pt 1):1–3 (25 ref.)
Gene products required for chromosome separation. Yanagida M. **J Cell Sci Suppl** 1989;12:213–29
Schizosaccharomyces pombe U4 small nuclear RNA closely resembles vertebrate U4 and is required for growth. Dandekar T, et al. **J Mol Biol** 1989 Aug 5;208(3):371–9
An intron-containing Schizosaccharomyces pombe U6 RNA gene can be transcribed by human RNA polymerase III. Kleinschmidt AM, et al. **J Mol Biol** 1990 Jan 5;211(1):7–9
Drosophila scaffold-attached regions bind nuclear scaffolds and can function as ARS elements in both budding and fission yeasts. Amati B, et al. **Mol Cell Biol** 1990 Oct; 10(10):5442–54
A gene family for acidic ribosomal proteins in Schizosaccharomyces pombe: two essential and two nonessential genes. Beltrame M, et al. **Mol Cell Biol** 1990 May;10(5):2341–8
Functional analysis of a centromere from fission yeast: a role for centromere-specific repeated DNA sequences. Clarke L, et al. **Mol Cell Biol** 1990 May;10(5):1863–72
Characterization of the Schizosaccharomyces pombe ral2 gene implicated in activation of the ras1 gene product. Fukui Y, et al. **Mol Cell Biol** 1989 Dec;9(12):5617–22
Schizosaccharomyces pombe ras1 and byr1 are functionally related genes of the ste family that affect starvation-induced transcription of mating-type genes. Nadin-Davis SA, et al. **Mol Cell Biol** 1990 Feb; 10(2):549–60
U1 small nuclear RNA from Schizosaccharomyces pombe has unique and conserved features and is encoded by an essential single-copy gene. Porter G, et al. **Mol Cell Biol** 1990 Jun;10(6):2874–81
Evolutionary origin of the U6 small nuclear RNA intron. Reich C, et al. **Mol Cell Biol** 1990 Oct;10(10):5548–52
Identification of Schizosaccharomyces pombe transcription factor PGA4, which binds cooperatively to Saccharomyces cerevisiae GAL4-binding sites. Ruden DM. **Mol Cell Biol** 1990 Apr;10(4):1432–8
Cloning and analysis of a gene involved in DNA repair and recombination, the rad1 gene of Schizosaccharomyces pombe. Sunnerhagen P, et al. **Mol Cell Biol** 1990 Jul; 10(7):3750–60
Overlapping reading frames at the LYS5 locus in the yeast Yarrowia lipolytica. Xuan JW, et al. **Mol Cell Biol** 1990 Sep;10(9):4795–806
Cauliflower mosaic virus promoters direct efficient expression of a bacterial G418 resistance gene in Schizosaccharomyces pombe. Gmlinder H, et al. **Mol Gen Genet** 1989 Dec;220(1):95–101
Isolation and initial characterization of a Schizosaccharomyces pombe mutant exhibiting temperature-dependent radiation sensitivity due to a mutation in a previously unidentified rad locus. Lieberman HB, et al. **Mol Gen Genet** 1989 Sep;218(3):554–8
Expression of the beta-glucuronidase gene under the control of the CaMV 35s promoter in Schizosaccharomyces pombe. Pobjecky N, et al. **Mol Gen Genet** 1990 Jan; 220(2):314–6
Mitochondrial cytochrome b genes with a six-nucleotide deletion or single-nucleotide substitutions confer resistance to antimycin A in the yeast Kluyveromyces lactis. Coria R, et al. **Mol Microbiol** 1989 Nov;3(11):1599–604
Striking conservation of TFIID in Schizosaccharomyces pombe and Saccharomyces cerevisiae. Fikes JD, et al. **Nature** 1990 Jul 19;346(6281):291–4
Homologous activators of ras in fission and budding yeast. Hughes DA, et al. **Nature** 1990 Mar 22;344(6264):355–7
Trans-kingdom promiscuity [letter] Sikorski RS, et al. **Nature** 1990 Jun 14;345(6276):581–2
The gene for cyclophilin (peptidyl-prolyl cis-trans isomerase) from Schizosaccharomyces pombe. de Martin R, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4917
Genetic evidence for similar negative regulatory domains in the yeast transcription activators GAL4 and LAC9. Dickson RC, et al. **Nucleic Acids Res** 1990 Sep 11; 18(17):5213–7
Novel YPT1-related genes from Schizosaccharomyces pombe. Fawell E, et al. **Nucleic Acids Res** 1990 Jul 25; 18(14):4264
The primary structure of the 3-phosphoglycerate kinase (PGK) gene from Kluyveromyces lactis. Fournier A, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):365
Schizosaccharomyces U6 genes have a sequence within their introns that matches the B box consensus of tRNA internal promoters. Frendewey D, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2025–32
RAG1 gene of the yeast Kluyveromyces lactis codes for a sugar transporter. Goffrini P, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5294
The nucleotide sequence of the small ribosomal subunit RNA of the yeast Toruluspora delbrueckii. Hendriks L, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4611
Transformation of Schizosaccharomyces pombe by electroporation. Hood MT, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):688
A mutation in the Zn-finger of the GAL4 homolog LAC9 results in glucose repression of its target genes. Kuger P, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):745–51
Sequence of the gene for the cytoplasmic ribosomal RNA small subunit from Kluyveromyces lactis. Maleszka R, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1889
Isolation of a Schizosaccharomyces pombe homologue to the rat ribosomal protein, L7. Murray JM, et al. **Nucleic Acids Res** 1990 Aug 11;18(15):4590
Splicing of the U6 RNA precursor is impaired in fission yeast pre-mRNA splicing mutants. Potashkin J, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7821–31
Nucleotide sequence of the Hansenula anomala gene encoding flavocytochrome b2 (L-lactate:cytochrome c oxidoreductase). Risler Y, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8381
Kluyveromyces lactis glyceraldehyde-3-phosphate dehydrogenase and alcohol dehydrogenase-1 genes are linked and divergently transcribed. Shuster JR. **Nucleic Acids Res** 1990 Jul 25;18(14):4271
Sequence and structure of U5 snRNA from Schizosaccharomyces pombe. Small K, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9483
Sequence of the ribosomal protein gene KD4 from Schizosaccharomyces pombe. Teletski C, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10118
Nucleotide sequence of the gene encoding subunit 3 of cytochrome c oxidase (cox3) in the mitochondrial genome of Schizosaccharomyces pombe strain EF1. Trinkl H, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10104
A palindromic mutation of the linear killer plasmid k2 of yeast. Wésolowski-Louvel M, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4877–82
A gene from S. pombe with homology to E. coli RNAse III blocks conjugation and sporulation when overexpressed in wild type cells. Xu HP, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5304
Introduction of large linear minichromosomes into Schizosaccharomyces pombe by an improved transformation procedure. Allshire RC. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4043–7
The adenylyl cyclase gene from Schizosaccharomyces pombe. Young D, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7989–93
Centromeres of budding and fission yeasts. Clarke L. **Trends Genet** 1990 May;6(5):150–4 (31 ref.)
Isolation and sequence analysis of a K. lactis chromosomal DNA element able to autonomously replicate in S. cerevisiae and K. lactis. Fabiani L, et al. **Yeast** 1990 Jan-Feb;6(1):69–76
Cloning and sequencing of the ornithine carbamoyltransferase gene from Pachysolen tannophilus. Skrzypek M, et al. **Yeast** 1990 Mar-Apr;6(2):141–8
The plasmid-encoded killer system of Kluyveromyces lactis: a review. Stark MJ, et al. **Yeast** 1990 Jan-Feb;6(1):1–29 (89 ref.)
[Genetic strains of Hansenula polymorpha] Bodunova EN, et al. **Genetika** 1990 Mar;26(3):424–32 (Eng. Abstr.) **(Rus)**
[Regularities of posthyperthermic recovery in haploid and diploid yeasts Saccharomyces cerevisiae and Pichia pinus] Glazunov AV, et al. **Tsitologiia** 1989 Jul;31(7):785–90 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Pattern of end growth of the fission yeast Schizosaccharomyces pombe. Miyata H, et al. **Can J Microbiol** 1990 Jun;36(6):390–4
The developmental fate of fission yeast cells is determined by the pattern of inheritance of parental and grandparental DNA strands. Klar AJ. **EMBO J** 1990 May;9(5):1407–15
Effects of leptomycin B on the cell cycle of fibroblasts and fission yeast cells. Yoshida M, et al. **Exp Cell Res** 1990 Mar;187(1):150–6
Interconversion of polyamines in wild-type strains and mutants of yeasts and the effects of polyamines on their growth. Hamana K, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1-2):231–6
Bicarbonate inhibition of Saccharomyces cerevisiae and Hansenula wingei growth in apple juice. Curran DM, et al. **Int J Food Microbiol** 1989 Feb;8(1):1–9
Toxin arrest [letter] Stark MJ. **Nature** 1990 Aug 9; 346(6284):518
[Utilization of sulfite leach by yeasts: growth parameters of producer and fusion strains] Weide H, et al. **J Basic Microbiol** 1990;30(4):289–94 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Serological study of yeast killer toxins by monoclonal antibodies. Polonelli L, et al. **Mycopathologia** 1989 Dec; 108(3):211–5

ISOLATION & PURIFICATION

Colony formation by sublethally heat-injured Zygosaccharomyces rouxii as affected by solutes in the recovery medium and procedure for sterilizing medium. Golden DA, et al. **Appl Environ Microbiol** 1990 Aug; 56(8):2319–26
Prostatitis caused by Hansenula fabianii [letter] Dooley DP, et al. **J Infect Dis** 1990 May;161(5):1040–1
[Yeast flora of the intestinal tract in long-lived residents of Abkhaziia] Kvasnikov EI, et al. **Mikrobiol Zh** 1985 Jul-Aug;47(4):22–6 (Eng. Abstr.) **(Rus)**

METABOLISM

Fermentation development of recombinant Pichia pastoris expressing the heterologous gene: bovine lysozyme. Brierley RA, et al. **Ann N Y Acad Sci** 1990;589:350–62
Diauxic metabolism of Hansenula polymorpha. Steady- and unsteady-state considerations. Bryers JD, et al. **Ann N Y Acad Sci** 1990;589:315–32
Involvement of a cell wall receptor in the mode of action of an anti-Candida toxin of Pichia anomala. Sawant AD, et al. **Antimicrob Agents Chemother** 1990 Jul;34(7):1331–5
Alternative respiration pathways in Schwanniomyces castellii. I. Isolation and characterization of cytochrome-deficient mutants. Dubreucq E, et al. **Antonie Van Leeuwenhoek** 1990 Apr;57(3):123–30
Alternative respiration pathways in Schwanniomyces castellii. II. Characteristics of oxidation pathways. Dubreucq E, et al. **Antonie Van Leeuwenhoek** 1990 Apr; 57(3):131–7
Pollution potential reduction of cheese whey through yeast fermentation. Ghaly AE, et al. **Appl Biochem Biotechnol** 1989 Nov;22(2):181–203
Transport of malic acid and other dicarboxylic acids in the yeast Hansenula anomala. Côrte-Real M, et al. **Appl Environ Microbiol** 1990 Apr;56(4):1109–13
Permeability properties of peroxisomal membranes from yeasts. Douma AC, et al. **Arch Microbiol** 1990;153(5):490–5
Killer toxin of Hanseniaspora uvarum. Radler F, et al. **Arch Microbiol** 1990;154(2):175–8
Acetate assimilation by the fission yeast, Schizosaccharomyces pombe. Tsai CS, et al. **Biochem Cell Biol** 1989 Aug;67(8):464–7
Phenylmethylsulfonyl fluoride protects L-lysine transport in Schizosaccharomyces pombe against inactivation by ammonium ions. Horák J, et al. **Biochim Biophys Acta** 1990 Apr 30;1023(3):380–2
Maloalcoholic fermentation by immobilized Schizosaccharomyces pombe. Guo LY, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):229–41
Macromolecule synthesis in temperature-sensitive mutants of methanol-utilizing Hansenula polymorpha. Yang SS, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 May;22(2):116–31
Deuterons cannot replace protons in active transport processes in yeast. Kotyk A, et al. **FEBS Lett** 1990 May 21;264(2):203–5
A 36-kDa mitochondrial protein is responsible for cyanide-resistant respiration in Hansenula anomala. Minagawa N, et al. **FEBS Lett** 1990 May 7;264(1):149–52
Polyamines improve Ca2+ transport system of the yeast mitochondria. Votyakova TV, et al. **FEBS Lett** 1990 Feb 12;261(1):139–41
Peculiarities of amino acid transport in Schizosaccharomyces pombe: effects of growth medium. Sychrová H, et al. **Folia Microbiol (Praha)** 1989;34(4):279–85
Interaction of hexadecyltrimethylammonium bromide with yeast cells. Divakar S. **Indian J Biochem Biophys** 1990 Apr; 27(2):112–7
Hydrocarbon emulsification by Candida tropicalis and Debaryomyces polymorphus. Singh M, et al. **Indian J Exp Biol** 1989 Mar;27(3):224–6
Continuous-culture study of the regulation of glucose and fructose transport in Kluyveromyces marxianus CBS 6556. Postma E, et al. **J Bacteriol** 1990 Jun;172(6):2871–6
Characterization of yeasts with high L[+]-lactic acid

production: lactic acid specific soft-agar overlay (LASSO) and TAFE-patterns. Witte V, et al. **J Basic Microbiol** 1989; 29(10):707–16

Transport of glucose and cellobiose by Candida wickerhamii and Clavispora lusitaniae. Freer SN, et al. **J Biol Chem** 1990 Aug 5;265(22):12864–8

LAC9 DNA-binding domain coordinates two zinc atoms per monomer and contacts DNA as a dimer. Halvorsen YC, et al. **J Biol Chem** 1990 Aug 5;265(22):13283–9

CO2 production after induction synchrony of the fission yeast Schizosaccharomyces pombe: the origin and nature of entrainment. Novak B, et al. **J Cell Sci** 1990 May;96 (Pt 1):79–91

Production of yeast killer toxin in experimentally infected animals. Polonelli L, et al. **Mycopathologia** 1990 Jun; 110(3):169–75

Regulation of mitosis by cyclic accumulation of p80cdc25 mitotic inducer in fission yeast. Moreno S, et al. **Nature** 1990 Apr 5;344(6266):549–52

[Killer protein, formed by the yeast Hansenula Anomala (Hansen) H. et P. Sydow] Vustin MM, et al. **Dokl Akad Nauk SSSR** 1989;308(5):1251–5 **(Rus)**

[The effect of citrate and dihydroxyacetone on methanol oxidation in Hansenula polymorpha] Sibirnyĭ AA, et al. **Ukr Biokhim Zh** 1990 Jan–Feb;62(1):108–12 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

[The effect of Pichia guilliermondii yeasts on the body of laboratory animals] Kotliar AN, et al. **Mikrobiol Zh** 1990 Jan–Feb;52(1):61–4 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Electrofusion of oriented Schizosaccharomyces pombe cells through apical protoplast–protuberances. Vondrejs V, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):113–8

A review of mitosis in the fission yeast Schizosaccharomyces pombe. Hayles J, et al. **Exp Cell Res** 1989 Oct;184(2):273–86 (92 ref.)

Substitution at position 116 of Schizosaccharomyces pombe calmodulin decreases its stability under nitrogen starvation and results in a sporulation-deficient phenotype. Takeda T, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9737–41

ULTRASTRUCTURE

Use of electron microscopy to characterize the surfaces of flocculent and nonflocculent yeast cells. Johnson BF, et al. **Can J Microbiol** 1989 Dec;35(12):1081–6

Distribution of tubulin and actin through the cell division cycle of the fission yeast Schizosaccharomyces japonicus var. versatilis: a comparison with Schizosaccharomyces pombe. Alfa CE, et al. **J Cell Sci** 1990 May;96 (Pt 1):71–7

Cell wall formation in regenerating protoplasts of Schizosaccharomyces pombe: study by high resolution, low voltage scanning electron microscopy. Osumi M, et al. **J Electron Microsc (Tokyo)** 1989;38(6):457–68

ENDOMYCOPSIS see ENDOMYCETALES

ENDOMYOCARDIAL FIBROSIS

BLOOD

Distribution of antibodies against Coxsackie B viruses, arboviruses and Toxoplasma gondii among patients with endomyocardial fibrosis (EMF) compared with normal subjects from EMF endemic and non-endemic zones of Nigeria. Ijaola O, et al. **Afr J Med Med Sci** 1990 Jun; 19(2):93–103

CHEMICALLY INDUCED

[Organic changes in rabbits and rats in phosphorothioaliphatic compound poisoning. III. The histomorphologic picture of selected internal organs, especially the myocardium, in rats and rabbits in phosphorothioaliphatic pound poisoning treated with oximes] Giermaziak H. **Med Pr** 1989;40(4):228–37 (Eng. Abstr.) **(Pol)**

COMPLICATIONS

[Mitral valve insufficiency caused by endomyocardial fibrosis of the left ventricle. A case report] de Assis RV, et al. **Arq Bras Cardiol** 1989 May;52(5):275–7 (Eng. Abstr.) **(Por)**

[Restrictive cardiomyopathy] Moiseev VS, et al. **Kardiologiia** 1990 Feb;30(2):114–8 (96 ref.) **(Rus)**

[Hypereosinophilic syndrome and acute ventricular failure] Martínez Lacasa JT, et al. **Rev Clin Esp** 1990 Jan; 186(1):26–8 (Eng. Abstr.) **(Spa)**

[Restrictive myocardiopathy caused by endomyocardial fibrosis] Mayor Molina G, et al. **Rev Esp Cardiol** 1990 Feb; 43(2):119–22 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Echocardiographic recognition of Chagas' disease and endomyocardial fibrosis. Acquatella H, et al. **J Am Soc Echocardiogr** 1988 Jan–Feb;1(1):60–8 (13 ref.)

[Detection of myocardial sclerosis and echocardiography (letter)] Illyés G, et al. **Orv Hetil** 1989 Sep 17; 130(38):2068–9 **(Hun)**

ETIOLOGY

Myocardial fibrosis and pathologic hypertrophy in the rat with renovascular hypertension. Weber KT, et al. **Am J Cardiol** 1990 Apr 3;65(14):1G–7G (66 ref.)

A geochemical basis for endomyocardial fibrosis. Valiathan MS, et al. **Cardiovasc Res** 1989 Jul;23(7):647–8

Fibrosis in the transplanted heart and its relation to donor ischemic time. Assessment with polarized light microscopy and digital image analysis. Pickering JG, et al. **Circulation** 1990 Mar;81(3):949–58

The role of thorium in endomyocardial fibrosis. Singh NP. **Hum Exp Toxicol** 1990 Mar;9(2):79–82 (29 ref.)

Endomyocardial fibrosis in dermatomyositis. Rossi MA. **Int J Cardiol** 1990 Jul;28(1):119–22

Endomyocardial fibrosis—the possible connexion with myocardial levels of magnesium and cerium. Valiathan SM, et al. **Int J Cardiol** 1990 Jul;28(1):1–5 (30 ref.)

Diffuse intermyocardiocytic fibrosis in uraemic patients. Mall G, et al. **Nephrol Dial Transplant** 1990;5(1):39–44

[Subaortic fibromuscular tunnel following resection of accessory mitral tissue. Surgical treatment] Hvass U, et al. **Arch Mal Coeur** 1989 Sep;82(9):1629–32 (15 ref.) (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

The pathogenesis of endomyocardial fibrosis: the role of the eosinophil. Spry CJ. **Springer Semin Immunopathol** 1989; 11(4):471–7 (40 ref.)

MICROBIOLOGY

Fatal cardiac zygomycosis in a renal transplant patient treated with desferrioxamine. Hamdy NA, et al. **Nephrol Dial Transplant** 1989;4(10):911–3

MORTALITY

Clinical course of endomyocardial fibrosis. Gupta PN, et al. **Br Heart J** 1989 Dec;62(6):450–4

PATHOLOGY

Myocardial fibrosis in endomyocardial biopsy specimens: do different bioptomes affect estimation? Meckel CR, et al. **Am J Cardiovasc Pathol** 1989;2(4):309–13

Endomyocardial disease and eosinophilia. A clinical and pathologic spectrum. Roberts WC, et al. **Am J Med** 1969 Jan;46(1):28–42

Myocardial stiffness and reparative fibrosis following coronary embolisation in the rat. Carroll EP, et al. **Cardiovasc Res** 1989 Aug;23(8):655–61

Histomorphologic characteristics of endomyocardial fibrosis: an endomyocardial biopsy study. Chopra P, et al. **Hum Pathol** 1990 Jun;21(6):613–6

Pathologic changes in the long-term transplanted heart: a morphometric study of myocardial hypertrophy, vascularity, and fibrosis. Rowan RA, et al. **Hum Pathol** 1990 Jul;21(7):767–72

Right-sided endomyocardial fibrosis: an unusual morphological type. Chopra P, et al. **Int J Cardiol** 1990 Jun;27(3):383–5

Myocardial and endocardial involvement in tuberculous constrictive pericarditis: difficulty in biopsy distinction from endomyocardial fibrosis as a cause of restrictive heart disease. Dave T, et al. **Int J Cardiol** 1990 Aug;28(2):245–51

Fibrosis in hypertrophic cardiomyopathy: its possible pathogenesis [letter] Beranek JT. **J Am Coll Cardiol** 1990 Aug;16(2):519

[Hypereosinophilic syndrome with Löffler's endomyocarditis: report of an autopsy case] Yu IT, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jul;88(7):740–3 (Eng. Abstr.) **(Chi)**

[The heart and diabetes. An anatomo-clinical study] da Silva LH, et al. **Arq Bras Cardiol** 1989 Aug;53(2):105–13 (81 ref.) (Eng. Abstr.) **(Por)**

[Endomyocardial fibrosis] Lazos-Ochoa M, et al. **Gac Med Mex** 1989 Jan–Feb;125(1–2):51–4 **(Spa)**

SURGERY

Early surgical results in the treatment of endomyocardial fibrosis. A Brazilian cooperative study. da Costa FD, et al. **Eur J Cardiothorac Surg** 1989;3(5):408–13

[Surgery of endomyocardial fibrosis. Apropos of 32 cases] Dubost C, et al. **Arch Mal Coeur** 1990 Apr;83(4):481–6 (Eng. Abstr.) **(Fre)**

[Endomyocardial fibrosis] Dubost C, et al. **Chirurgie** 1989; 115(9):698–703; discussion 704 (31 ref.) (Eng. Abstr.) **(Fre)**

[The surgical treatment of endomyocardial fibrosis of the left ventricle—the first surgical case report in Japan] Yokoyama M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1990 Apr;38(4):641–6 (Eng. Abstr.) **(Jpn)**

[Endomyocardial fibrosis: surgical treatment] de Mendonça JT, et al. **Arq Bras Cardiol** 1989 Jan;52(1):13–7 (21 ref.) (Eng. Abstr.) **(Por)**

[The hypereosinophilic syndrome in a child with endomyocardial fibrosis treated surgically] Simkovic I, et al. **Rozhl Chir** 1990 Jan;69(1):27–33 (Eng. Abstr.) **(Slo)**

ENDONUCLEASE BAMHI see DEOXYRIBONUCLEASE BAMHI

ENDONUCLEASE ECORI see DEOXYRIBONUCLEASE ECORI

ENDONUCLEASE HINDIII see DEOXYRIBONUCLEASE HINDIII

ENDONUCLEASE MAPPING, RESTRICTION see RESTRICTION MAPPING

ENDONUCLEASE P1 see ASPERGILLUS NUCLEASE S1

ENDONUCLEASE S1, ASPERGILLUS see ASPERGILLUS NUCLEASE S1

ENDONUCLEASES

Sfil and NotI polymorphisms in Theileria stocks detected by pulsed field gel electrophoresis. Morzaria SP, et al. **Mol Biochem Parasitol** 1990 May;40(2):203–11

Sequence-specific artificial photo-induced endonucleases based on triple helix-forming oligonucleotides. Perrouault L, et al. **Nature** 1990 Mar 22;344(6264):358–60

BIOSYNTHESIS

[Effect of mitomycin on the biosynthesis of extracellular endonuclease by Serratia marcescens] Iusupova DV, et al. **Antibiot Khimioter** 1990 Feb;35(2):13–5 (Eng. Abstr.) **(Rus)**

GENETICS

The identification of a second cell cycle control on the HO promoter in yeast: cell cycle regulation of SW15 nuclear entry. Nasmyth K, et al. **Cell** 1990 Aug 24;62(4):631–47

Overproduction of yeast viruslike particles by strains deficient in a mitochondrial nuclease. Liu YX, et al. **Mol Cell Biol** 1989 Aug;9(8):3323–31

Characterization of the restriction site of a prokaryotic intron-encoded endonuclease. Chu FK, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3574–8

IMMUNOLOGY

Neurospora endo-exonuclease is immunochemically related to the recC gene product of Escherichia coli. Fraser MJ, et al. **J Bacteriol** 1990 Jan;172(1):507–10

METABOLISM

Fluorometric methods employing low concentrations of ethidium bromide for DNA topoisomerase and endonuclease assays. Foglesong PD. **Anal Biochem** 1989 Nov 1;182(2):284–8

DNase activity of micrococcal endonuclease insolubilized on corn cob. Sánchez-Montero JM, et al. **Appl Biochem Biotechnol** 1989 Nov;22(2):205–14

Rapid turnover of endogenous endonuclease activity in thymocytes: effects of inhibitors of macromolecular synthesis. McConkey DJ, et al. **Arch Biochem Biophys** 1990 Apr;278(1):284–7

Endo-exonuclease of Aspergillus nidulans. Koa H, et al. **Biochem Cell Biol** 1990 Jan;68(1):387–92

The AAV origin binding protein Rep68 is an ATP-dependent site-specific endonuclease with DNA helicase activity. Im DS, et al. **Cell** 1990 May 4;61(3):447–57

Resolution of synthetic Holliday junctions in DNA by an endonuclease activity from calf thymus. Elborough KM, et al. **EMBO J** 1990 Sep;9(9):2931–6

Involvement of Coprinus endonuclease in preparing substrate for in vitro recombination. Montgomery GP, et al. **Genome** 1990 Feb;33(1):101–8

Phosphatidylcholine and phosphatidylethanolamine enhance the activity of the mammalian mitochondrial endonuclease in vitro. Parks WA, et al. **J Biol Chem** 1990 Feb 25; 265(6):3436–9

Theoretical analysis of the footprinting experiment. Goodisman J, et al. **J Biomol Struct Dyn** 1985 Feb; 2(5):967–79

Cleavage specificity of bacteriophage T4 endonuclease VII and bacteriophage T7 endonuclease I on synthetic branch migratable Holliday junctions. Picksley SM, et al. **J Mol Biol** 1990 Apr 20;212(4):723–35

A human endonuclease incises ultraviolet-irradiated DNA at cytosines and oxidized DNA at thymines. Gallagher PE, et al. **Mol Carcinog** 1989;2(4):188–91

Analysis of the HO-cleaved MAT DNA intermediate generated during the mating type switch in the yeast Saccharomyces cerevisiae. Raveh D, et al. **Mol Gen Genet** 1989 Dec;220(1):33–42

Intron mobility in phage T4 is dependent upon a distinctive class of endonucleases and independent of DNA sequences encoding the intron core: mechanistic and evolutionary implications. Bell-Pedersen D, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3763–70

Number and distribution of methylphosphonate linkages in oligodeoxynucleotides affect exo- and endonuclease sensitivity and ability to form RNase H substrates. Quartin RS, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7253–62

Effect of pressure on plant endonuclease reactions. Kunugi S, et al. **Nucleic Acids Symp Ser** 1989;(21):133–4

[Enhancement of endonuclease activity and repair DNA synthesis by polysaccharide of Spirulina platensis] Pang QS, et al. **I Chuan Hsueh Pao** 1988;15(5):374–81 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Parentage analysis by endonuclease shattering of hypervariable DNA. Chiafari FA, et al. **Transfusion** 1990 Sep;30(7):648–50

ENDOPEPTIDASES see **PEPTIDE PEPTIDOHYDROLASES**

ENDOPHTHALMITIS

CHEMICALLY INDUCED

[Comparative studies in chronic ocular chalcosis] Zagórski Z, et al. **Klin Oczna** 1989 Apr;91(4):73–5 (Eng. Abstr.) (Pol)

COMPLICATIONS

Endophthalmitis due to Mycobacterium avium in a patient with AIDS. Cohen JI, et al. **Ann Ophthalmol** 1990 Feb; 22(2):47–51

Extraretinal cytomegalovirus infection following retinal reattachment surgery in a patient with acquired immunodeficiency syndrome [letter] Margo CE, et al. **Arch Ophthalmol** 1990 Sep;108(9):1215–6

Endogenous Nocardia asteroides endophthalmitis in a patient with systemic lupus erythematosus. Ishibashi Y, et al. **Br J Ophthalmol** 1990 Jul;74(7):433–6

Spontaneous sterilization in experimental Staphylococcus epidermidis endophthalmitis. Meredith TA, et al. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):181–6

DIAGNOSIS

Visual outcome of endophthalmitis in Sweden. Koul S, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):504–9

Endogenous Listeria monocytogenes endophthalmitis presenting as keratouveitis. Heidemann DG, et al. **Cornea** 1990 Apr;9(2):179–80

Early diagnosis of Nocardia asteroides endophthalmitis by retinal biopsy: case report and review. Knouse MC, et al. **Rev Infect Dis** 1990 May–Jun;12(3):393–8 (16 ref.)

[Mycotic endophthalmitis: vital importance of an early diagnosis] Berthe–Bonnet S, et al. **Bull Soc Belge Ophtalmol** 1987;225 Pt 2:121–5 (Eng. Abstr.) (Fre)

[An uncommon clinical form of phakolytic glaucoma] Bremond D, et al. **Bull Soc Ophtalmol Fr** 1989 Jun–Jul; 89(6–7):853–6 (Eng. Abstr.) (Fre)

[Infectious inflammatory diseases of the external portion of the eye (the results of a discussion)] Kasparov AA. **Vestn Oftalmol** 1989 Sep–Oct;105(5):70–2 (Rus)

DRUG THERAPY

Evaluation of liposome-encapsulated clindamycin in Staphylococcus aureus endophthalmitis. Rao VS, et al. **Int Ophthalmol** 1989 May;13(3):181–5

Endogenous Candida endophthalmitis. Management without intravenous amphotericin B. Brod RD, et al. **Ophthalmology** 1990 May;97(5):666–72; disc: 672–4

d-Ibuprofen in ocular inflammation induced by paracentesis of the rabbit eye. Tjebbes GW, et al. **Prostaglandins** 1990 Jul;40(1):29–33

[Bacterial endophthalmitis: treatment with a combination of fosfomycin and pefloxacin apropos of 9 cases] Salvanet–Bouccara A, et al. **Bull Soc Ophtalmol Fr** 1989 Nov;89(11):1281–6 (Fre)

[Advances in the medical treatment of bacterial endophthalmitis] Bron A, et al. **Ophtalmologie** 1989 Jan–Mar;3(1):73–6 (33 ref.) (Eng. Abstr.) (Fre)

[Intra–arterial infusion therapy via the external carotid artery system in emergency combined treatment of the eye] Kucherenko LV, et al. **Oftalmol Zh** 1989;(6):349–51 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

Incidence of endophthalmitis in Sweden. Koul S, et al. **Acta Ophthalmol (Copenh)** 1989 Oct;67(5):499–503

Prospective study of Candida endophthalmitis in hospitalized patients with candidemia. Brooks RG. **Arch Intern Med** 1989 Oct;149(10):2226–8

ETIOLOGY

Candida albicans endophthalmitis following extra–corporeal shock wave lithotripsy of a kidney stone [letter] Heilesen AM, et al. **Acta Ophthalmol (Copenh)** 1989 Aug;67(4):478

Successful treatment of Bacillus alvei endophthalmitis. Antonello A, et al. **Am J Ophthalmol** 1989 Oct 15; 108(4):454–5

Complete visual recovery after Bacillus cereus endophthalmitis in a child. Beer PM, et al. **Am J Ophthalmol** 1990 Aug 15;110(2):212–3

Postoperative endophthalmitis caused by Wangiella dermatitidis. Margo CE, et al. **Am J Ophthalmol** 1990 Sep 15;110(3):322–3

Late endophthalmitis after transscleral fixation of a posterior chamber intraocular lens. Heilskov T, et al. **Arch Ophthalmol** 1989 Oct;107(10):1427

Coryneform endophthalmitis. Two case reports. McManaway JW 3d, et al. **Arch Ophthalmol** 1990 Jul; 108(7):942–4

Endophthalmitis following Ruiz procedure. Case report. Manka RL, et al. **Arch Ophthalmol** 1990 Jan;108(1):21

Postoperative Propionibacterium granulosum endophthalmitis [letter] Walker J, et al. **Arch Ophthalmol** 1990 Aug;108(8):1073–4

Systemic candidiasis with DIC and candida endophthalmitis in a postoperative neonate. Doi O, et al. **Aust Paediatr J** 1989 Dec;25(6):372–5 (22 ref.)

Mixed haematogenous endophthalmitis caused by Candida albicans and CDC fermentative corynebacterium group A–4. Barker C, et al. **Br J Ophthalmol** 1990 Apr;74(4):247–8

Bacillus–induced endophthalmitis: new series of 10 cases and review of the literature. Hemady R, et al. **Br J Ophthalmol** 1990 Jan;74(1):26–9 (34 ref.)

Ocular Lyme disease: case report and review of the literature. Kauffmann DJ, et al. **Br J Ophthalmol** 1990 Jun;74(6):325–7 (32 ref.)

Ophthalmia nodosa. Watson PG, et al. **Br J Ophthalmol** 1966 Apr;50(4):209–17

Endophthalmitis caused by exogenous nocardial infection in a patient with Sjögren's syndrome. Heathcote JG, et al. **Can J Ophthalmol** 1990 Feb;25(1):29–33

Bacteroides fragilis endophthalmitis: a case report. Kelly LD, et al. **Can J Ophthalmol** 1990 Jun;25(4):208–9 (6 ref.)

Gentamicin–resistant streptococcal endophthalmitis after keratoplasty [letter] Lindquist TD, et al. **Cornea** 1990 Jan; 9(1):88–9

Recurrent postoperative endophthalmitis. Stern GA, et al. **Cornea** 1990 Apr;9(2):102–7

Experimental bacterial endophthalmitis following extracapsular lens extraction. Records RE, et al. **Exp Eye Res** 1989 Nov;49(5):729–37

Bacterial contamination of intraocular and extraocular fluids during extracapsular cataract extraction. Sherwood DR, et al. **Eye** 1989;3 (Pt 3):308–12

Haematogenous Serratia marcescens endophthalmitis in an HIV–infected intravenous drug addict. Alvarez R, et al. **Infection** 1990 Jan–Feb;18(1):29–30

Intraocular nocardiosis: a further case and review. Price NC, et al. **Int Ophthalmol** 1989 May;13(3):177–80

Streptococcus suis meningitis, permanent perceptive deafness and endophthalmitis [letter] Coolen L, et al. **Intensive Care Med** 1989;15(8):545

Propionibacterium acnes endophthalmitis: an unusual manner of presentation. Abrahams IW. **J Cataract Refract Surg** 1989 Nov;15(6):698–701

Chronic postoperative endophthalmitis from Staphylococcus aureus. Seedor JA, et al. **J Cataract Refract Surg** 1990 Jul; 16(4):512–3

Metastatic pneumococcal endophthalmitis: report of two cases and review of literature. Cheesbrough JS, et al. **J Infect** 1990 May;20(3):231–6 (19 ref.)

The clinical spectrum of endophthalmitis: incidence, predisposing factors, and features influencing outcome. Shrader SK, et al. **J Infect Dis** 1990 Jul;162(1):115–20

Endophthalmitis due to Pasteurella multocida and CDC EF–4 [letter] Vartian CV, et al. **J Infect Dis** 1989 Oct; 160(4):733

Long–term follow–up of Candida endophthalmitis in the premature infant. Annable WL, et al. **J Pediatr Ophthalmol Strabismus** 1990 Mar–Apr; 27(2):103–6

Meningococcal endophthalmitis and pericarditis. Beynon HL, et al. **J R Soc Med** 1990 May;83(5):331

From the Centers for Disease Control. Aspergillus endophthalmitis in intravenous–drug users—Kentucky. **JAMA** 1990 Feb 16;263(7):941

Aspergillus endophthalmitis in intravenous–drug users—Kentucky. **MMWR** 1990 Jan 26;39(3):48–9

Pneumococcal endophthalmitis after ocular surgery—Alaska, California. **MMWR** 1990 Feb 9;39(5):71–3

Endogenous Klebsiella endophthalmitis: case report. Glassman RM, et al. **Mt Sinai J Med** 1989 Sep;56(4):326–9

Klebsiella metastatic endophthalmitis—a complication of shock wave lithotripsy. Kremer I, et al. **Ophthalmic Surg** 1990 Mar;21(3):206–8

The shouting surgeon as a possible source of endophthalmitis. Schiff FS. **Ophthalmic Surg** 1990 Jun;21(6):438–40

Endocapsular hypopyon: a clinical sign of localized endophthalmitis. Stefansson E, et al. **Ophthalmic Surg** 1990 Mar;21(3):221–2

Unsuspected paperboard–endophthalmitis in ruptured eye. Wolter JR, et al. **Ophthalmic Surg** 1990 May;21(5):358–62

Listeria monocytogenes endophthalmitis in a renal–transplant patient receiving ciclosporin. Algan M, et al. **Ophthalmologica** 1990;201(1):23–7

Brucella melitensis endogenous endophthalmitis. al Faran MF. **Ophthalmologica** 1990;201(1):19–22

Rural endophthalmitis. Boldt HC, et al. **Ophthalmology** 1989 Dec;96(12):1722–6

Histoplasma capsulatum endophthalmitis after cataract extraction. Pulido JS, et al. **Ophthalmology** 1990 Feb; 97(2):217–20

Endophthalmitis due to Blastomyces dermatitidis. Case report and review of the literature. Safneck JR, et al. **Ophthalmology** 1990 Feb;97(2):212–6

Pseudomonas aeruginosa endogenous endophthalmitis in a neonate. Schutze GE, et al. **Pediatr Infect Dis J** 1989 Dec; 8(12):893–5

Late bacterial endophthalmitis following retinal detachment surgery. Duker JS, et al. **Retina** 1989;9(4):263–6

Extracorporeal shock wave lithotripsy of a kidney stone complicated with Candida albicans septicaemia and endophthalmitis. Case report. Westh H, et al. **Scand J Urol Nephrol** 1990;24(1):81

Endogenous endophthalmitis due to Salmonella arizonae and Hafnia alvei [published erratum appears in South Med J 1990 May;83(5):496] Caravalho J Jr, et al. **South Med J** 1990 Mar;83(3):325–7

[Endophthalmitis caused by Aspergillus (anatomo–clinical study of a case)] Brasseur G, et al. **Bull Soc Ophtalmol Fr** 1989 Feb;89(2):305–6, 309–10 (Eng. Abstr.) (Fre)

[Listeria endophthalmitis: an uncommon etiology] Brasseur G, et al. **Bull Soc Ophtalmol Fr** 1989 Dec;89(12):1463–6 (10 ref.) (Eng. Abstr.) (Fre)

[Postoperative bacterial endophthalmia. Prognostic factors] Retout A, et al. **Bull Soc Ophtalmol Fr** 1988 Dec; 88(12):1515–9 (Eng. Abstr.) (Fre)

[Metastatic endophthalmitis in diabetes mellitus] Andrusenko AB, et al. **Sov Med** 1989;(9):112–3 (Rus)

MICROBIOLOGY

Propionibacterium acnes endophthalmitis two years after extracapsular cataract extraction. Friberg TR, et al. **Am J Ophthalmol** 1990 May 15;109(5):609–10

PATHOLOGY

Infantile endogenous Candida endophthalmitis presenting as a cataract. Clinch TE, et al. **Surv Ophthalmol** 1989 Sep–Oct;34(2):107–12 (31 ref.)

Cestode larva (Sparganum) in the anterior chamber of the eye. Sen DK, et al. **Trop Geogr Med** 1989 Jul;41(3):270–3

[Endophthalmitis phakoanaphylactica with anterior uveitis of the partner eye] Necker HP, et al. **Klin Monatsbl Augenheilkd** 1989 Oct;195(4):248–53 (Eng. Abstr.) (Ger)

PHYSIOPATHOLOGY

Vibrio albensis as a cause of post–operative endophthalmitis [letter] Tendolkar UM, et al. **J Infect** 1990 May;20(3):261–2

PREVENTION & CONTROL

[Antibacterial prophylaxis in elective and non–elective intraocular surgical interventions and treatment of postoperative endophthalmitis] de Jong PT, et al. **Ned Tijdschr Geneeskd** 1989 Dec 30;133(52):2608–11 (18 ref.) (Dut)

SURGERY

[Staphylococcal endophthalmitis following squint surgery] Bialasiewicz AA, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):86–8 (Eng. Abstr.) (Ger)

THERAPY

Comparative treatment of experimental Staphylococcus epidermidis endophthalmitis. Meredith TA, et al. **Arch Ophthalmol** 1990 Jun;108(6):857–60

[Treatment of acute and chronic endophthalmitis following posterior chamber lens implantation] Gloor B. **Klin Monatsbl Augenheilkd** 1990 May;196(5):325–8 (Eng. Abstr.) (Ger)

ENDOPLASMIC RETICULUM

ANALYSIS

Characterization of high–capacity low–affinity calcium binding protein of liver endoplasmic reticulum: calsequestrin–like and divergent properties. Damiani E, et al. **Biochem Biophys Res Commun** 1989 Dec 29; 165(3):973–80

Peripheral membrane proteins of sarcoplasmic and endoplasmic reticulum. Comparison of carboxyl–terminal amino acid sequences. Fliegel L, et al. **Biochem Cell Biol** 1989 Oct;67(10):696–702 (75 ref.)

Detection of GTP–binding proteins in purified derivatives of rough endoplasmic reticulum. Lanoix J, et al. **Biochem J** 1989 Sep 1;262(2):497–503

DRUG EFFECTS

Polychlorinated biphenyls increase fatty acid desaturation in the proliferating endoplasmic reticulum of pigeon and rat livers. Borlakoglu JT, et al. **Eur J Biochem** 1990 Mar 10; 188(2):327–32

Ultrastructural changes in rat–molar cementoblasts after administration of puromycin. Sawada T, et al. **J Biol Buccale** 1989 Sep;17(3):167–77

Unusual concretions in the hepatocyte rough endoplasmic reticulum of sheep given tunicamycin. Finnie JW, et al. **J Comp Pathol** 1990 Jul;103(1):121–3

[The effect of single and repeated administration of penicillin on the structure of the endoplasmic network of the epithelial cells in the proximal tubules of rat nephrons] Vinnichenko LN. **Tsitologiia** 1989 Aug;31(8):882–6 (Eng. Abstr.) (Rus)

ENZYMOLOGY

Heterogeneity of smooth endoplasmic reticulum from rat liver studied by two–phase partitioning. Gierow P, et al. **Biochem J** 1989 Aug 15;262(1):55–61

Nucleotide sequence of cDNA coding for rat liver pI 6.1

esterase (ES-10), a carboxylesterase located in the lumen of the endoplasmic reticulum. Robbi M, et al. **Biochem J** 1990 Jul 15;269(2):451-8

Antibodies against the non-muscle isoform of the endoplasmic reticulum Ca2(+)-transport ATPase. Wuytack F, et al. **Biochem J** 1989 Dec 15;264(3):765-9

Evidence of endoplasmic reticulum-related Ca2+ ATPase in human microvascular endothelial cells. Bikfalvi A, et al. **Exp Cell Res** 1989 Sep;184(1):28-36

Perturbation of intestinal microvillar enzyme biosynthesis by amino acid analogs. Evidence that dimerization is required for the transport of aminopeptidase N out of the endoplasmic reticulum. Danielsen EM. **J Biol Chem** 1990 Aug 25;265(24):14566-71

Feedback regulation of CTP:phosphocholine cytidylyltransferase translocation between cytosol and endoplasmic reticulum by phosphatidylcholine. Jamil H, et al. **J Biol Chem** 1990 Mar 15;265(8):4332-9

Nonaprenyl-4-hydroxybenzoate transferase, an enzyme involved in ubiquinone biosynthesis, in the endoplasmic reticulum-Golgi system of rat liver. Kalén A, et al. **J Biol Chem** 1990 Jan 15;265(2):1158-64

Substrate stimulation of 7 alpha-hydroxylase, an enzyme located in the cholesterol-poor endoplasmic reticulum. Straka MS, et al. **J Biol Chem** 1990 May 5;265(13):7145-9

Choline deficiency causes translocation of CTP:phosphocholine cytidylyltransferase from cytosol to endoplasmic reticulum in rat liver. Yao ZM, et al. **J Biol Chem** 1990 Mar 15;265(8):4326-31

Protein disulfide-isomerase in rat exocrine pancreatic cells is exported from the endoplasmic reticulum despite possessing the retention signal. Yoshimori T, et al. **J Biol Chem** 1990 Sep 15;265(26):15984-90

Cell type-specific post-Golgi apparatus localization of a "resident" endoplasmic reticulum glycoprotein, glucosidase II. Brada D, et al. **J Cell Biol** 1990 Feb;110(2):309-18

Alterations of liver ergastoplasmic membranes during DL-ethionine hepatocarcinogenesis. Aminopyrine demethylase activity and ribosome-membrane interaction. Gabriel L, et al. **Life Sci** 1974 Dec 15;15(12):2119-25

[Development of endoplasmic reticulum and its enzymic marker in cultured mouse spinal neurons] Wang LC, et al. **Shih Yen Sheng Wu Hsueh Pao** 1989 Jun;22(2):177-87 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Anti-liver endoplasmic reticulum autoantibodies are directed against human cytochrome P-450IA2. A specific marker of dihydralazine-induced hepatitis. Bourdi M, et al. **J Clin Invest** 1990 Jun;85(6):1967-73

The immunogenicity of VP7, a rotavirus antigen resident in the endoplasmic reticulum, is enhanced by cell surface expression. Andrew ME, et al. **J Virol** 1990 Oct; 64(10):4776-83

Prevention of HIV-1 glycoprotein transport by soluble CD4 retained in the endoplasmic reticulum [see comments] Buonocore L, et al. **Nature** 1990 Jun 14;345(6276):625-8 Comment in: Nature 1990 Jun 14;345(6276):573-4.

Antigen presentation requires transport of MHC class I molecules from the endoplasmic reticulum. Cox JH, et al. **Science** 1990 Feb 9;247(4943):715-8

Suppression of renal allograft rejection in the rat using purified plasma membrane and endoplasmic reticulum preparation expressing donor class I major histocompatibility complex antigen. Foster S, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):469

METABOLISM

Alpha-1-antitrypsin deficiency: accumulation or degradation of mutant variants within the hepatic endoplasmic reticulum. Sifers RN, et al. **Am J Respir Cell Mol Biol** 1989 Nov;1(5):341-5 (45 ref.)

Protein oligomerization in the endoplasmic reticulum. Hurtley SM, et al. **Annu Rev Cell Biol** 1989;5:277-307 (176 ref.)

Control of protein exit from the endoplasmic reticulum. Pelham HR. **Annu Rev Cell Biol** 1989;5:1-23 (106 ref.)

Characterization of the mRNAs encoding the gene 2 sarcoplasmic/endoplasmic-reticulum Ca2+ pump in pig smooth muscle. Eggermont JA, et al. **Biochem J** 1990 Mar 15;266(3):901-7

The selectivity of secretion: protein sorting in the endoplasmic reticulum. Pelham HR. **Biochem Soc Trans** 1989 Oct;17(5):795-802 (73 ref.)

Receptor-mediated binding of secretory protein precursors to endoplasmic reticulum membranes in yeast. Sanz P, et al. **Biochem Soc Trans** 1990 Apr;18(2):143-6

Mechanisms of protein import into the endoplasmic reticulum and protein export in Escherichia coli. Schlenstedt G, et al. **Biochem Soc Trans** 1989 Oct;17(5):822-3

Protein-mediated phospholipid translocation in the endoplasmic reticulum with a low lipid specificity. Herrmann A, et al. **Biochemistry** 1990 Feb 27;29(8):2023-7

Retinoid modulation of cell-free membrane transfer between endoplasmic reticulum and Golgi apparatus. Nowack DD, et al. **Biochim Biophys Acta** 1990 Mar 9;1051(3):250-8

In vivo translocation of the cell wall acid phosphatase across the yeast endoplasmic reticulum membrane: are there multiple signals for the targeting process? Silve S, et al. **Biochimie** 1990 Feb-Mar;72(2-3):103-14

Sorting out the secretory pathway. Davey J. **Bioessays** 1989 Dec;11(6):185-7 (20 ref.)

Molecular machinery required for protein transport from the endoplasmic reticulum to the Golgi complex. Hicke L, et al. **Bioessays** 1990 Jun;12(6):253-8 (35 ref.)

New evidence for endoplasmic reticulum and Golgi apparatus in rabbit reticulocytes. Schulze C, et al. **Biomed Biochim Acta** 1990;49(2-3):S100-4

Large dense cored vesicles are enriched in neuropeptide processing intermediates in the Aplysia bag cells. Kreiner T, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2-3):135-42

Perturbation of cellular calcium induces secretion of luminal ER proteins. Booth C, et al. **Cell** 1989 Nov 17;59(4):729-37

Protein degradation in the endoplasmic reticulum. Klausner RD, et al. **Cell** 1990 Aug 24;62(4):611-4 (25 ref.)

The ERD2 gene determines the specificity of the luminal ER protein retention system. Lewis MJ, et al. **Cell** 1990 Jun 29;61(7):1359-63

Microtubule-dependent retrograde transport of proteins into the ER in the presence of brefeldin A suggests an ER recycling pathway. Lippincott-Schwartz J, et al. **Cell** 1990 Mar 9;60(5):821-36

The involvement of calcium in transport of secretory proteins from the endoplasmic reticulum. Sambrook JF. **Cell** 1990 Apr 20;61(2):197-9 (16 ref.)

ERD2, a yeast gene required for the receptor-mediated retrieval of luminal ER proteins from the secretory pathway. Semenza JC, et al. **Cell** 1990 Jun 29;61(7):1349-57

Salvage receptors: two of a kind? Warren G. **Cell** 1990 Jul 13;62(1):1-2 (15 ref.)

Effects of cyclic nucleotide dependent protein kinases on the endoplasmic reticulum Ca2+ pump of bovine pulmonary artery. Raeymaekers L, et al. **Cell Calcium** 1990 Apr; 11(4):261-8

The effects of inducers of the endoplasmic reticulum, peroxisomes and mitochondria on the amounts and synthesis of ubiquinone in rat liver subcellular membranes. Kalén A, et al. **Chem Biol Interact** 1990;73(2-3):221-34

Sorting signals. Breitfeld PP, et al. **Curr Opin Cell Biol** 1989 Aug;1(4):617-23 (29 ref.)

Molecular pathologies of the hepatic endoplasmic reticulum. Burchell B, et al. **Curr Opin Cell Biol** 1989 Aug;1(4):712-7 (15 ref.)

Biosynthetic protein transport in the secretory pathway. Huttner WB, et al. **Curr Opin Cell Biol** 1989 Aug; 1(4):648-54 (39 ref.)

Assembly of proteins in the endoplasmic reticulum. Siegel V, et al. **Curr Opin Cell Biol** 1989 Aug;1(4):635-8 (16 ref.)

Facultative polypeptide translocation allows a single mRNA to encode the secreted and cytosolic forms of plasminogen activators inhibitor 2. Belin D, et al. **EMBO J** 1989 Nov; 8(11):3287-94

ERD1, a yeast gene required for the retention of luminal endoplasmic reticulum proteins, affects glycoprotein processing in the Golgi apparatus. Hardwick KG, et al. **EMBO J** 1990 Mar;9(3):623-30

A membrane component of the endoplasmic reticulum that may be essential for protein translocation. Hartmann E, et al. **EMBO J** 1989 Aug;8(8):2225-9

Heat shock and the sorting of luminal ER proteins. Pelham HR. **EMBO J** 1989 Nov;8(11):3171-6 (76 ref.)

Synthetic peptides of the Rab effector domain inhibit vesicular transport through the secretory pathway. Plutner H, et al. **EMBO J** 1990 Aug;9(8):2375-83

BiP expression is not increased by the accumulation of PiZ alpha 1-antitrypsin in the endoplasmic reticulum. Cresteil D, et al. **FEBS Lett** 1990 Jul 16;267(2):277-80

Secretory protein synthesis in Chironomus salivary gland cells is not coupled with protein translocation across endoplasmic reticulum membranes. Electron microscopic evidence. Kiseleva EV. **FEBS Lett** 1989 Nov 6; 257(2):251-3

High affinity ryanodine binding sites in rat liver endoplasmic reticulum. Shoshan-Barmatz V. **FEBS Lett** 1990 Apr 24; 263(2):317-20

Photocrosslinking demonstrates proximity of a 34 kDa membrane protein to different portions of preprolactin during translocation through the endoplasmic reticulum. Wiedmann M, et al. **FEBS Lett** 1989 Nov 6;257(2):263-8

Pentylenetetrazole-induced seizure activity produces an increased release of calcium from endoplasmic reticulum by mediating cyclic AMP-dependent protein phosphorylation in rat cerebral cortex. Onozuka M, et al. **Gen Pharmacol** 1989;20(5):627-34

Endoplasmic reticulum storage disease [comment] Carlson J. **Histopathology** 1990 Mar;16(3):309-12 Comment on: Histopathology 1990 Mar;16(3):221-5.

Hepatocyte inclusions of alpha 1-antichymotrypsin in a patient with partial deficiency of alpha 1-antichymotrypsin and chronic liver disease [see comments] Lindmark B, et al. **Histopathology** 1990 Mar;16(3):221-5 Comment in: Histopathology 1990 Mar;16(3):309-12.

Comparative study of the N-glycoprotein synthesis through dolichol intermediates in mitochondria, Golgi apparatus-rich fraction and endoplasmic reticulum-rich fraction. Levrat C, et al. **Int J Biochem** 1990;22(3):287-93

Anchoring of peptide elongation factor EF-1 alpha by phosphatidylinositol at the endoplasmic reticulum membrane. Hayashi Y, et al. **J Biochem (Tokyo)** 1989 Oct; 106(4):560-3

Topography of initiation of N-glycosylation reactions. Abeijon C, et al. **J Biol Chem** 1990 Aug 25;265(24):14691-5

Apolipoprotein B is both integrated into and translocated across the endoplasmic reticulum membrane. Evidence for two functionally distinct pools. Davis RA, et al. **J Biol Chem** 1990 Jun 15;265(17):10005-11

Perturbation of cellular calcium blocks exit of secretory proteins from the rough endoplasmic reticulum. Lodish HF, et al. **J Biol Chem** 1990 Jul 5;265(19):10893-9

ERp72, an abundant luminal endoplasmic reticulum protein, contains three copies of the active site sequences of protein disulfide isomerase. Mazzarella RA, et al. **J Biol Chem** 1990 Jan 15;265(2):1094-101

Truncations of a secretory protein define minimum lengths required for binding to signal recognition particle and translocation across the endoplasmic reticulum membrane. Okun MM, et al. **J Biol Chem** 1990 May 5;265(13):7478-84

Cholesterol and vesicular stomatitis virus G protein take separate routes from the endoplasmic reticulum to the plasma membrane. Urbani L, et al. **J Biol Chem** 1990 Feb 5;265(4):1919-23

Intracellular degradation of unassembled asialoglycoprotein receptor subunits: a pre-Golgi, nonlysosomal endoproteolytic cleavage. Amara JF, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3315-24

The G protein of vesicular stomatitis virus has free access into and egress from the smooth endoplasmic reticulum of UT-1 cells. Bergmann JE, et al. **J Cell Biol** 1990 Mar; 110(3):625-35

Protein transport from endoplasmic reticulum to the Golgi complex can occur during meiotic metaphase in Xenopus oocytes. Ceriotti A, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1439-44

Recycling of proteins from the Golgi compartment to the ER in yeast. Dean N, et al. **J Cell Biol** 1990 Aug; 111(2):369-77

SEC62 encodes a putative membrane protein required for protein translocation into the yeast endoplasmic reticulum. Deshaies RJ, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2653-64

Quality control in the endoplasmic reticulum: folding and misfolding of vesicular stomatitis virus G protein in cells and in vitro. de Silva AM, et al. **J Cell Biol** 1990 Sep; 111(3):857-66

Isolation of a functional vesicular intermediate that mediates ER to Golgi transport in yeast. Groesch ME, et al. **J Cell Biol** 1990 Jul;111(1):45-53

Endocytosis of simian virus 40 into the endoplasmic reticulum. Kartenbeck J, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2721-9

Protein translocation across the endoplasmic reticulum membrane: identification by photocross-linking of a 39-kD integral membrane glycoprotein as part of a putative translocation tunnel. Krieg UC, et al. **J Cell Biol** 1989 Nov; 109(5):2033-43

Invariant chain trimers are sequestered in the rough endoplasmic reticulum in the absence of association with HLA class II antigens. Marks MS, et al. **J Cell Biol** 1990 Sep;111(3):839-55

A novel GTP-binding protein, Sar1p, is involved in transport from the endoplasmic reticulum to the Golgi apparatus. Nakaño A, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2677-91

Intracellular maturation and transport of the SV5 type II glycoprotein hemagglutinin-neuraminidase: specific and transient association with GRP78-BiP in the endoplasmic reticulum and extensive internalization from the cell surface. Ng DT, et al. **J Cell Biol** 1989 Dec;109(6 Pt 2):3273-89

Multiple genes are required for proper insertion of secretory proteins into the endoplasmic reticulum in yeast. Rothblatt JA, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2641-52

A yeast gene important for protein assembly into the endoplasmic reticulum and the nucleus has homology to DnaJ, an Escherichia coli heat shock protein. Sadler I, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2665-75

The inositol 1,4,5,-trisphosphate receptor in cerebellar Purkinje cells: quantitative immunogold labeling reveals concentration in an ER subcompartment. Satoh T, et al. **J Cell Biol** 1990 Aug;111(2):615-24

Membrane biogenesis during B cell differentiation: most endoplasmic reticulum proteins are expressed coordinately. Wiest DL, et al. **J Cell Biol** 1990 May;110(5):1501-11

Carboxy-terminal SEKDEL sequences retard but do not retain two secretory proteins in the endoplasmic reticulum. Zagouras P, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2633-40

Low temperature blocks exit of pro-opiomelanocortin from the endoplasmic reticulum but not subsequent delivery to the site of prohormone processing. Wattenberg BW. **J Cell Physiol** 1990 May;143(2):287-93

Release of Ca2+ from the endoplasmic reticulum is not the mechanism for bile acid-induced cholestasis and hepatotoxicity in the intact rat liver. Farrell GC, et al. **J Clin Invest** 1990 Apr;85(4):1255-9

Immunocytochemical localization of BiP to the rough endoplasmic reticulum: evidence for protein sorting by selective retention. Bole DG, et al. **J Histochem Cytochem** 1989 Dec;37(12):1817-23

Intestinal calcium transport in spontaneously hypertensive rats and their genetically matched Wistar-Kyoto rats. I. Endoplasmic reticulum. Shibata H, et al. **J Hypertens** 1990 May;8(5):473-7

The T cell receptor-associated protein is proteolytically cleaved in a pre-Golgi compartment. Antusch D, et al. **J Immunol** 1990 Aug 1;145(3):885-90

The export pathway of the pseudorabies virus gB homolog gII involves oligomer formation in the endoplasmic

reticulum and protease processing in the Golgi apparatus. Whealy ME, et al. J Virol 1990 May;64(5):1946–55
Mutations in the signal sequence of prepro-alpha-factor inhibit both translocation into the endoplasmic reticulum and processing by signal peptidase in yeast cells. Allison DS, et al. Mol Cell Biol 1989 Nov;9(11):4977–85
Novel N-terminal amino acid sequence required for retention of a hepatitis B virus glycoprotein in the endoplasmic reticulum. Kuroki K, et al. Mol Cell Biol 1989 Oct; 9(10):4459–66
The yeast KRE5 gene encodes a probable endoplasmic reticulum protein required for (1——6)-beta-D-glucan synthesis and normal cell growth. Meaden P, et al. Mol Cell Biol 1990 Jun;10(6):3013–9
BET1, BOS1, and SEC22 are members of a group of interacting yeast genes required for transport from the endoplasmic reticulum to the Golgi complex. Newman AP, et al. Mol Cell Biol 1990 Jul;10(7):3405–14
Identification of a ribosome receptor in the rough endoplasmic reticulum. Savitz AJ, et al. Nature 1990 Aug 9;346(6284):540–4
AIF-4 inhibits the accumulation of Ca in the endoplasmic reticulum in intact myometrial strips, but not in the rabbit ear artery. Missiaen L, et al. Pflugers Arch 1989 Aug; 414(4):423–9
Subcellular distribution of small GTP binding proteins in pancreas: identification of small GTP binding proteins in the rough endoplasmic reticulum. Nigam SK. Proc Natl Acad Sci U S A 1990 Feb;87(4):1296–9
Thapsigargin, a tumor promoter, discharges intracellular Ca2+ stores by specific inhibition of the endoplasmic reticulum Ca2(+)-ATPase. Thastrup O, et al. Proc Natl Acad Sci U S A 1990 Apr;87(7):2466–70
A peptide sequence confers retention and rapid degradation in the endoplasmic reticulum. Bonifacino JS, et al. Science 1990 Jan 5;247(4938):79–82
Signals for membrane-associated transport in eukaryotic cells. Niemann H, et al. Subcell Biochem 1989;15:307–65 (285 ref.)
[Endoplasmic reticulum: anatomy of a biologic membrane] Amar-Costesec A. Reprod Nutr Dev 1989;29(6):621–38 (94 ref.) (Eng. Abstr.) (Fre)
[Calcium transport in endoplasmic reticulum of the rat liver during lipid peroxidation] Gubskil Iul, et al. Biokhimiia 1990 Jan;55(1):12–22 (Eng. Abstr.) (Rus)
[Cytochrome P-450 and oxidative modification of macromolecules] Archakov AI, et al. Vestn Akad Med Nauk SSSR 1990;(2):21–7 (Eng. Abstr.) (Rus)
[The effect of alpha-tocopherol and lidocaine on the structural-functional rearrangement of liver endoplasmic reticulum membranes after induction with phenobarbital in the postischemic period] Sharapov VI, et al. Vopr Med Khim 1990 Mar-Apr;36(2):14–8 (Eng. Abstr.) (Rus)

PATHOLOGY

Endoplasmic storage disease of liver: characterization of intracytoplasmic hyaline inclusions. Ng IO, et al. Histopathology 1989 Nov;15(5):473–81

PHYSIOLOGY

The role of the endoplasmic reticulum in antigen processing. N-glycosylation of influenza hemagglutinin abrogates CD4+ cytotoxic T cell recognition of endogenously processed antigen. Thomas DB, et al. J Immunol 1990 Apr 1;144(7):2789–94
Cell biology. Tracking an elusive receptor [news; comment] Kelly RB. Nature 1990 Jun 7;345(6275):480–1 (12 ref.) Comment on: Nature 1990 Jun 7;345(6275):495–502.
Voltage-dependent InsP3-insensitive calcium channels in membranes of pancreatic endoplasmic reticulum vesicles. Schmid A, et al. Nature 1990 Jul 26;346(6282):374–6
Identification by anti-idiotype antibodies of an intracellular membrane protein that recognizes a mammalian endoplasmic reticulum retention signal [see comments] Vaux D, et al. Nature 1990 Jun 7;345(6275):495–502 Comment in: Nature 1990 Jun 7;345(6275):480–1.

ULTRASTRUCTURE

Morphogenesis of endoplasmic reticulum in Xenopus oocytes after microinjection of rat liver smooth microsomes. Paiement J, et al. Am J Anat 1990 Feb;187(2):183–92
Microtubular aggregates within rough endoplasmic reticulum in myxopapillary ependymoma of the filum terminale. Ho KL. Arch Pathol Lab Med 1990 Sep;114(9):956–60
Identification of the 16 degrees C compartment of the endoplasmic reticulum in rat liver and cultured hamster kidney cells. Morré DJ, et al. Biol Cell 1989;67(1):51–60
Association of androgen binding sites with the endoplasmic reticulum of rat ventral prostate. Steinsapir J, et al. Biol Reprod 1990 Feb;42(2):337–49
Continuities between outer nuclear membrane and the rough endoplasmic reticulum increase in hippocampal neurons during seizure-induced protein synthesis. Pico RM, et al. Brain Res 1989 Sep 18;497(2):387–92
Recent progress on structural interactions of the endoplasmic reticulum. Terasaki M. Cell Motil Cytoskeleton 1990; 15(2):71–5 (26 ref.)
Three-dimensional organization of a transcellular tubulocisternal endoplasmic reticulum in epithelial cells of Reissner's membrane in the guinea-pig. Qvortrup K, et al. Cell Tissue Res 1990 Aug;261(2):287–99
Polymorphic organization of the endoplasmic reticulum of the Malpighian tubule. Evidence for a transcellular route. Berthelet F, et al. Cellule 1987;74:281–90
Construction of the endoplasmic reticulum. Lee C, et al. J Cell Biol 1989 Nov;109(5):2045–55
Precursors of chondroitin sulfate proteoglycan are segregated within a subcompartment of the chondrocyte endoplasmic reticulum. Vertel BM, et al. J Cell Biol 1989 Oct;109(4 Pt 1):1827–36
Ribosome-lamella complexes observed in an Epstein-Barr virus-producing B-cell line, infected with human T-lymphotropic virus type I. Ohtsuki Y, et al. J Pathol 1990 Jul;161(3):191–4
Accumulation of smooth endoplasmic reticulum in Alzheimer's disease: new morphological evidence of axoplasmic flow disturbances. Richard S, et al. J Submicrosc Cytol Pathol 1989 Jul;21(3):461–7
Further postmortem examination of a case of familial ataxia with cerebrospinal fluid abnormality: an electron microscopic study of the intracytoplasmic eosinophilic inclusion bodies in the central nervous system. Nakamura I, et al. Jpn J Psychiatry Neurol 1989 Jun;43(2):227–39
Measurement of intactness of rat liver endoplasmic reticulum. Arion WJ. Methods Enzymol 1989;174:58–67

ENDORIBONUCLEASES

The response of the double strand-specific nuclease V1 to Y-base removal in yeast tRNA(Phe). Marciniec T, et al. Acta Biochim Pol 1989;36(2):115–22
Primary structure of a ribonuclease from porcine liver, a new member of the ribonuclease superfamily. Hofsteenge J, et al. Biochemistry 1989 Dec 12;28(25):9806–13
Folding of ribonuclease T1. 1. Existence of multiple unfolded states created by proline isomerization. Kiefhaber T, et al. Biochemistry 1990 Mar 27;29(12):3053–61
pH dependence of the urea and guanidine hydrochloride denaturation of ribonuclease A and ribonuclease T1. Pace CN, et al. Biochemistry 1990 Mar 13;29(10):2564–72
On the molecular weight and subunit composition of calf thymus ribonuclease H1. Rong YW, et al. Biochemistry 1990 Jan 16;29(2):383–9
Solution structure of the isolated ribonuclease C-terminal 112–124 fragment. Angeles Jiménez M, et al. Biochim Biophys Acta 1990 May 8;1038(3):322–9
Structural analysis of plant ribosomal 5S RNAs. Visualisation of novel tertiary interactions by cleavage of lupin and wheat 5SrRNAs with ribonuclease H. Barciszewska MZ, et al. Biochim Biophys Acta 1990 Sep 10;1087(1):68–72
Structural analysis of prokaryotic and eukaryotic 5S rRNAs by RNase H. Lorenz S, et al. Biochimie 1989 Nov-Dec; 71(11–12):1185–91
Tertiary structure of RNase Pch1 predicted from the model structure of RNase Ms and the crystal structure of RNase T1. Comparison among the model structures—testing the limits of modelling by homology. Floegel R, et al. Eur Biophys J 1990;18(4):225–33
Recognition pattern of different bases in the active site of ribonuclease Ms—a model building study. Floegel R, et al. J Biomol Struct Dyn 1989 Oct;7(2):257–68
Crystallographic study of mechanism of ribonuclease T1-catalysed specific RNA hydrolysis. Heinemann U, et al. J Biomol Struct Dyn 1983 Oct;1(2):523–38 (38 ref.)
Distribution of charges in Bacillus intermedius 7P ribonuclease determines the number of cooperatively melting regions of the globule. Protasevich II, et al. J Biomol Struct Dyn 1987 Apr;4(5):885–93
Three-dimensional structure of ribonuclease H from E. coli. Katayanagi K, et al. Nature 1990 Sep 20;347(6290):306–9
Three-dimensional structure of ribonuclease Ms*3'-guanylic acid complex at 2.5 A. Nonaka T, et al. Nucleic Acids Symp Ser 1989;(21):71–2
Structure of ribonuclease H phased at 2 A resolution by MAD analysis of the selenomethionyl protein. Yang W, et al. Science 1990 Sep 21;249(4975):1398–405
Conformational stability of globular proteins. Pace CN. Trends Biochem Sci 1990 Jan;15(1):14–7 (30 ref.)

ANALYSIS

HIV-1 reverse transcriptase/ribonuclease H: high level expression in Escherichia coli from a plasmid constructed using the polymerase chain reaction. D'Aquila RT, et al. J Acquir Immune Defic Syndr 1989;2(6):579–87
Mutational analysis of the ribonuclease H activity of human immunodeficiency virus 1 reverse transcriptase. Hizi A, et al. Virology 1990 Apr;175(2):575–80
[Localization of energy domains in Bacillus intermedius 7P ribonuclease] Grishina IB, et al. Mol Biol (Mosk) 1989 Sep-Oct;23(5):1455–68 (Eng. Abstr.) (Rus)

ANTAGONISTS & INHIBITORS

Phosphorothioate analogues of (2'-5')(A)4: agonist and antagonist activities in intact cells. Charachon G, et al. Biochemistry 1990 Mar 13;29(10):2550–6
Binding modes of inhibitors of ribonuclease T1 as elucidated by analysis of two-dimensional NMR. Shimada I, et al. Biochemistry 1990 Jan 23;29(3):757–64
Inhibition of human immunodeficiency virus type 1 RNase H by sulfated polyanions. Moelling K, et al. J Virol 1989 Dec;63(12):5489–91
Binding modes of inhibitors to ribonuclease T1 as elucidated by the analysis of two-dimensional NMR. Shimada I, et al. Nucleic Acids Symp Ser 1989;(21):57–8

BIOSYNTHESIS

Secondary structure of the RNA component of a nuclear/mitochondrial ribonucleoprotein. Topper JN, et al. J Biol Chem 1990 Aug 5;265(22):13254–62

GENETICS

Similar cage-shaped structures for the RNA components of all ribonuclease P and ribonuclease MRP enzymes. Forster AC, et al. Cell 1990 Aug 10;62(3):407–9
Synthesis and function of the mitochondrial intron—encoded bI4 RNA maturase from Saccharomyces cerevisiae. Effects of upstream frame-shift mutations. Goguel V, et al. Curr Genet 1989 Oct;16(4):241–6
Autoregulation of RNase III operon by mRNA processing. Bardwell JC, et al. EMBO J 1989 Nov;8(11):3401–7
Secretion of recombinant ribonuclease T1 into the periplasmic space of Escherichia coli with the aid of the signal peptide of alkaline phosphatase. Fujimura T, et al. FEBS Lett 1990 Jun 4;265(1–2):71–4
Phylogenetic comparative analysis and the secondary structure of ribonuclease P RNA—a review. Pace NR, et al. Gene 1989 Oct 15;82(1):65–75 (40 ref.)
The gene for the RNA component of the mitochondrial RNA-processing endoribonuclease is located on human chromosome 9p and on mouse chromosome 4. Hsieh CL, et al. Genomics 1990 Mar;6(3):540–4
Characterization in vitro of the defect in a temperature-sensitive mutant of the protein subunit of RNase P from Escherichia coli. Baer MF, et al. J Bacteriol 1989 Dec;171(12):6862–6
Expression and characterization of RNase III and Era proteins. Products of the rnc operon of Escherichia coli. Chen SM, et al. J Biol Chem 1990 Feb 15;265(5):2888–95
Ribonuclease P: function and variation. Pace NR, et al. J Biol Chem 1990 Mar 5;265(7):3587–90 (42 ref.)
Analysis of the upstream region of the Escherichia coli rnd gene encoding RNase D. Evidence for translational regulation of a putative tRNA processing enzyme. Zhang JR, et al. J Biol Chem 1989 Oct 25;264(30):18228–33
Mutational analysis of the hepatitis B virus P gene product: domain structure and RNase H activity. Radziwill G, et al. J Virol 1990 Feb;64(2):613–20
Novel hybrid maturases in unstable pseudorevertants of maturaseless mutants of yeast mitochondrial DNA. Anziano PQ, et al. Nucleic Acids Res 1990 Jun 11; 18(11):3233–9
Structure and transcription of a human gene for H1 RNA, the RNA component of human RNase P. Baer M, et al. Nucleic Acids Res 1990 Jan 11;18(1):97–103
Nucleotide sequence of a Thiobacillus ferrooxidans chromosomal gene, which encodes putative RNA component of RNase P. Takeshima T, et al. Nucleic Acids Res 1989 Nov 25;17(22):9482
A gene from S. pombe with homology to E. coli RNAse III blocks conjugation and sporulation when overexpressed in wild type cells. Xu HP, et al. Nucleic Acids Res 1990 Sep 11;18(17):5304
An immunological determinant of RNase P protein is conserved between Escherichia coli and humans. Mamula MJ, et al. Proc Natl Acad Sci U S A 1989 Nov; 86(22):8717–21

ISOLATION & PURIFICATION

A distinct form of ribonuclease H from calf thymus stimulates its homologous DNA-polymerase-alpha-primase complex. Hagemeier A, et al. Eur J Biochem 1989 Nov 20; 185(3):621–8
Purification and characterization of Escherichia coli RNase I. Comparisons with RNase M. Meador J 3d, et al. Eur J Biochem 1990 Feb 14;187(3):549–53
Serological analysis and characterization of calf thymus ribonuclease H IIb. Vonwirth H, et al. Eur J Biochem 1989 Sep 15;184(2):321–9
Purification and characterization of a ribonuclease from human spleen. Immunological and enzymological comparison with nonsecretory ribonuclease from human urine. Yasuda T, et al. Eur J Biochem 1990 Jul 31; 191(2):523–9
Purification of recombinant ribonuclease T1 expressed in Escherichia coli. Shirley BA, et al. J Biochem Biophys Methods 1990 Mar;20(3):181–8
Characterization of ribonuclease P from the archaebacterium Sulfolobus solfataricus. Darr SC, et al. J Biol Chem 1990 Aug 5;265(22):12927–32
Preparation and characterization of RNase P from Escherichia coli. Baer MF, et al. Methods Enzymol 1990; 181:569–82
Transfer RNA splicing endonuclease from Xenopus laevis. Gandini-Attardi D, et al. Methods Enzymol 1990;181:510–7
Highly purified transfer RNA splicing endonuclease from Saccharomyces cerevisiae. Green PR, et al. Methods Enzymol 1990;181:471–80

METABOLISM

Preparation and properties of RNase T2 immobilized on

concanavalin A–sepharose. Reddy LG, et al. **Appl Biochem Biotechnol** 1989 Dec;22(3):237–46

Endoribonucleolytic cleavage of RNA: oligodeoxynucleotide hybrids by the ribonuclease H activity of HIV–1 reverse transcriptase. Dudding LR, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):244–50

3'–Fluoro–3'–deoxy analogs of 2–5A 5'–monophosphate: binding to 2–5A–dependent endoribonuclease and susceptibility to (2'–5')phosphodiesterase degradation. Kalinichenko EN, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):20–6

Metal ion requirements for sequence–specific endoribonuclease activity of the Tetrahymena ribozyme. Grosshans CA, et al. **Biochemistry** 1989 Aug 22; 28(17):6888–94

Folding of ribonuclease T1. 2. Kinetic models for the folding and unfolding reactions. Kiefhaber T, et al. **Biochemistry** 1990 Mar 27;29(12):3061–70

Identification and assignment of base pairs in four helical segments of Bacillus megaterium ribosomal 5S RNA and its ribonuclease T1 cleavage fragments by means of 500–MHz proton homonuclear Overhauser enhancements. Kim JH, et al. **Biochemistry** 1990 Jan 23;29(3):632–40

Crystal structure of guanosine–free ribonuclease T1, complexed with vanadate (V), suggests conformational change upon substrate binding. Kostrewa D, et al. **Biochemistry** 1989 Sep 19;28(19):7592–600

Analysis of the ribonuclease H activity of HIV–1 reverse transcriptase using RNA.DNA hybrid substrates derived from the gag region of HIV–1. Mizrahi V. **Biochemistry** 1989 Nov 14;28(23):9088–94

Class II ribonuclease H comigrates with, but is distinct from, the third largest subunit of calf thymus RNA polymerase I. Vonwirth H, et al. **Biochim Biophys Acta** 1990 Sep 10; 1087(1):31–8

Synthesis of oligonucleotide probes containing 2'–deoxy–2'–fluoronucleosides for cleavage of RNA by RNase H. Krug A, et al. **Biomed Biochim Acta** 1990; 49(4):161–6

Control of replication of plasmid R1: the duplex between the antisense RNA, CopA, and its target, CopT, is processed specifically in vivo and in vitro by RNase III. Blomberg P, et al. **EMBO J** 1990 Jul;9(7):2331–40

Substrate recognition by RNase P and by the catalytic M1 RNA: identification of possible contact points in pre–tRNAs. Kahle D, et al. **EMBO J** 1990 Jun;9(6):1929–37

Cleavages in the 5' region of the ompA and bla mRNA control stability: studies with an E. coli mutant altering mRNA stability and a novel endoribonuclease. Lundberg U, et al. **EMBO J** 1990 Sep;9(9):2731–41

CBP7 codes for a co–factor required in conjunction with a mitochondrial maturase for splicing of its cognate intervening sequence. Muroff I, et al. **EMBO J** 1990 Sep; 9(9):2765–73

HIV–1 RT–associated ribonuclease H displays both endonuclease and 3'——5' exonuclease activity. Schatz O, et al. **EMBO J** 1990 Apr;9(4):1171–6

Identification of two essential histidine residues of ribonuclease T2 from Aspergillus oryzae. Kawata Y, et al. **Eur J Biochem** 1990 Jan 12;187(1):255–62

A guanyloribonuclease of mouse liver cytosol. Pantazaki A, et al. **Eur J Biochem** 1990 Aug 28;192(1):115–7

Calf thymus ribonuclease H IIa activity lacks ribonuclease H specificity. Vonwirth H, et al. **Experientia** 1990 Mar 15; 46(3):319–21

Point mutations in conserved amino acid residues within the C–terminal domain of HIV–1 reverse transcriptase specifically repress RNase H function. Schatz O, et al. **FEBS Lett** 1989 Nov 6;257(2):311–4

Escherichia coli RNase E has a role in the decay of bacteriophage T4 mRNA [published erratum appears in Genes Dev 1990 Jun;4(6):1078] Mudd EA, et al. **Genes Dev** 1990 May;4(5):873–81

The specific guanine binding site of the ribonuclease T1 family enzymes and of G–proteins is modeled in the cocrystal formed by 7–methylguanosine–5'–phosphate and phenylalanine. Saenger W, et al. **J Biochem (Tokyo)** 1989 Aug;106(2):189–91

Control of the position of RNase P–mediated transfer RNA precursor processing. Carter BJ, et al. **J Biol Chem** 1990 May 5;265(13):7100–3

Herpes simplex–1 DNA polymerase. Identification of an intrinsic 5'——3' exonuclease with ribonuclease H activity. Crute JJ, et al. **J Biol Chem** 1989 Nov 15;264(32):19266–70

Kinetic analysis of Escherichia coli RNase H using DNA–RNA–DNA/DNA substrates. Hogrefe HH, et al. **J Biol Chem** 1990 Apr 5;265(10):5561–6

Identification of the amino acid residues involved in an active site of Escherichia coli ribonuclease H by site–directed mutagenesis. Kanaya S, et al. **J Biol Chem** 1990 Mar 15; 265(8):4615–21

Intrinsic properties of reverse transcriptase in reverse transcription. Associated RNase H is essentially regarded as an endonuclease. Oyama F, et al. **J Biol Chem** 1989 Nov 5;264(31):18808–17

Spermine stabilization of folded ribonuclease T1. Walz FG Jr, et al. **J Biol Chem** 1990 May 5;265(13):7127–37

Binding of vanadate (V) to ribonuclease–T1 and inosine, investigated by 51V NMR spectroscopy. Rehder D, et al. **J Inorg Biochem** 1989 Oct;37(2):141–50

Escherichia coli cell division inhibitor DicF–RNA of the dicB operon. Evidence for its generation in vivo by transcription termination and by RNase III and RNase E–dependent processing. Faubladier M, et al. **J Mol Biol** 1990 Apr 5;212(3):461–71

Plus–strand priming by Moloney murine leukemia virus. The sequence features important for cleavage by RNase H. Rattray AJ, et al. **J Mol Biol** 1989 Aug 5;208(3):445–56

Cleavage by RNase III in the transcripts of the met Y–nus–A–infB operon of Escherichia coli releases the tRNA and initiates the decay of the downstream mRNA. Régnier P, et al. **J Mol Biol** 1989 Nov 20;210(2):293–302

(2'–5')An–dependent RNase: enzyme levels are decreased in barrier–reared control and IFN–beta or IFN–gamma treated Balb/c mice. Floyd–Smith G. **Life Sci** 1989; 45(24):iii–x

Site–specific degradation of RNA of small nuclear ribonucleoprotein particles with complementary oligodeoxynucleotides and RNase H. Krämer A. **Methods Enzymol** 1990;181:284–92

Ribosomal RNA terminal maturase: ribonuclease M5 from Bacillus subtilis. Pace NR, et al. **Methods Enzymol** 1990; 181:366–74

Escherichia coli ribonuclease III. Robertson HD. **Methods Enzymol** 1990;181:189–202

The Th ribonucleoprotein particle: association with the RNA processing enzymes RNase MRP and RNase P. Craft J, et al. **Mol Biol Rep** 1990;14(2–3):109

Captan binding to avian myeloblastosis virus reverse transcriptase and its effect on RNase H activity. Freeman–Wittig MJ, et al. **Mol Cell Biochem** 1990 Apr 18;94(1):9–17

Efficient site–specific cleavage by RNase MRP requires interaction with two evolutionarily conserved mitochondrial RNA sequences. Bennett JL, et al. **Mol Cell Biol** 1990 May;10(5):2191–201

In vitro processing at the 3'–terminal region of pre–18S rRNA by a nucleolar endoribonuclease. Shumard CM, et al. **Mol Cell Biol** 1990 Aug;10(8):3868–72

RNase H cleavage of RNA hybridized to oligonucleotides containing methylphosphonate, phosphorothioate and phosphodiester bonds. Furdon PJ, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):9193–204

The methylation of one specific guanosine in a pre–tRNA prevents cleavage by RNase P and by the catalytic M1 RNA. Kahle D, et al. **Nucleic Acids Res** 1990 Feb 25; 18(4):837–44

The cleavage specificity of RNase III. Krinke L, et al. **Nucleic Acids Res** 1990 Aug 25;18(16):4809–15

Interaction of RNase P from Escherichia coli with pseudoknotted structures in viral RNAs. Mans RM, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3479–87

Characterization of the biochemical properties of recombinant ribonuclease III. March PE, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3293–8

Number and distribution of methylphosphonate linkages in oligodeoxynucleotides affect exo– and endonuclease sensitivity and ability to form RNase H substrates. Quartin RS, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7253–62

Characterization of human MRP/Th RNA and its nuclear gene: full length MRP/Th RNA is an active endoribonuclease when assembled as an RNP. Topper JN, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):793–9

Enzymatic and NMR analysis of oligoribonucleotides synthesized with 2'–tert–butyldimethylsilyl protected cyanoethylphosphoramidite monomers. Wang YY, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3347–52

Deoxynucleotide–containing oligoribonucleotide duplexes: stability and susceptibility to RNase V1 and RNase H. Wyatt JR, et al. **Nucleic Acids Res** 1989 Oct 11; 17(19):7833–42

Site–specific excision from RNA by RNase H and mixed–phosphate–backbone oligodeoxynucleotides. Agrawal S, et al. **Proc Natl Acad Sci U S A** 1990 Feb; 87(4):1401–5

Molecular dynamics simulations of ribonuclease T1: comparison of the free enzyme and the 2' GMP–enzyme complex. MacKerell AD Jr, et al. **Proteins** 1989;6(1):20–31

External guide sequences for an RNA enzyme. Forster AC, et al. **Science** 1990 Aug 17;249(4970):783–6

Specific interactions in RNA enzyme–substrate complexes. Guerrier–Takada C, et al. **Science** 1989 Dec 22; 246(4937):1578–84

[Hybridase cleavage of RNA. I. Oligonucleotide probes for regiospecific RNA cleavage] Metelev VG, et al. **Bioorg Khim** 1990 Apr;16(4):507–13 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Identification of G protein–coupled receptors by RNase H–mediated hybrid depletion using Xenopus laevis oocytes as expression system. Meyerhof W, et al. **FEBS Lett** 1990 Jun 18;266(1–2):192–4

PHYSIOLOGY

Catalysis by the RNA subunit of RNase P—a minireview. Altman S, et al. **Gene** 1989 Oct 15;82(1):63–4 (10 ref.)

RADIATION EFFECTS

Photochemical crosslinking in oligonucleotide–protein complexes between a bromine–substituted 2–5A analog and 2–5A–dependent RNase by ultraviolet lamp or laser. Nolan–Sorden NL, et al. **Anal Biochem** 1990 Feb 1; 184(2):298–304

ENDORPHIN, BETA see **BETA–ENDORPHIN**

ENDORPHIN RECEPTORS see **RECEPTORS, ENDORPHIN**

ENDORPHINS

Morphiceptin analogs containing 2–aminocyclopentane carboxylic acid as a peptidomimetic for proline. Mierke DF, et al. **Int J Pept Protein Res** 1990 Jan;35(1):35–45

Isolation and microsequence analysis of guinea pig alpha–neo–endorphin. Murphy R, et al. **Peptides** 1990 Jan–Feb;11(1):65–8

[Endorphins 1989: neuroendocrine aspects] Morcos R, et al. **Rev Neurol (Paris)** 1989;145(11):747–63 (285 ref.) (Eng. Abstr.) **(Fre)**

[New developments and findings in the field of opiates, opioids, opiate receptors and complete and partial opiate antagonists] Schneider M, et al. **Anaesthesiol Reanim** 1990; 15(3):138–44 (34 ref.) (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Influence of polarity on dose–response relationships of intrathecal opioids in rats. Plummer JL, et al. **Pain** 1990 Mar;40(3):339–47

[Endogenous opioids and their therapeutic use in the treatment of pain] Juul A, et al. **Ugeskr Laeger** 1990 Feb 5;152(6):372–5 (30 ref.) (Eng. Abstr.) **(Dan)**

ANALYSIS

The eel pancreas contains opiate–like but not corticotropin–like materials. Ng TB. **Biochem Int** 1990; 20(6):1161–7

Effect of dietary energy, body condition and calf removal on pituitary gonadotropins, gonadotropin–releasing hormone (GnRH) and hypothalamic opioids in beef cows. Connor HC, et al. **Domest Anim Endocrinol** 1990 Jul; 7(3):403–11

Immunohistochemical evidence for different opioid systems in the rat superior cervical ganglion as revealed by imipramine treatment and receptor blockade. Folan JC, et al. **J Chem Neuroanat** 1989 Mar–Apr;2(2):107–18

Canine brain radioreceptor assay for non–specific opioid peptide screening in dog heart extracts. Barron BA, et al. **Prog Clin Biol Res** 1990;328:93–6

[Structural organization of [Met]enkephalin and endorphin molecules. I. Theoretical conformation analysis of [Met]enkephalin] Popov EM, et al. **Bioorg Khim** 1990 Apr; 16(4):482–91 (Eng. Abstr.) **(Rus)**

[Structural organization of [met]enkephalin and endorphin molecules. II. Theoretical conformation analysis of alpha–, gamma– and delta–endorphins] Sulelmanova EV, et al. **Bioorg Khim** 1990 May;16(5):649–60 (Eng. Abstr.) **(Rus)**

[Analysis of new opiate–like peptides using a radioreceptor method] Shestak KI, et al. **Ukr Biokhim Zh** 1990 Mar–Apr; 62(2):23–9 (Eng. Abstr.) **(Rus)**

[Modification by alpha–interferon of ethanol–induced changes in the level of opioid peptides in the rat striatum and hypophysis] Panchenko LF, et al. **Vopr Med Khim** 1990 May–Jun;36(3):71–3 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Structure and conformational analysis of the opioid antagonist (–)–(1R,5R,9R)–5,9–diethyl–2–(3–furylmethyl)–2'–hydroxy–6,7–benzomorpha n (Mr2266). Verlinde CL, et al. **Acta Crystallogr C** 1989 Nov 15;45 (Pt 11):1797–802

Advancement of first ovulation by the opioid antagonist naltrexone. Meijs–Roelofs HM, et al. **Biol Reprod** 1989 Nov;41(5):842–7

Intracerebroventricular N–ethylmaleimide differentially reduces supraspinal opioid analgesia in mice. Sánchez–Blázquez P, et al. **Eur J Pharmacol** 1989 Jul 18; 166(2):193–200

BIOSYNTHESIS

Effects of morphine treatment on endogenous opioid biosynthesis. Bronstein D, et al. **NIDA Res Monogr** 1988; 90:256–65 (24 ref.)

Nicotine and opioid peptides. Höllt V, et al. **Prog Brain Res** 1989;79:187–93

[Biosynthesis of kyotorphin, a dipeptidic neuromodulator] Ueda H, et al. **Seikagaku** 1989 Jul;61(7):592–6 **(Jpn)**

BLOOD

Effects of low– and high–intensity exercise on plasma and cerebrospinal fluid levels of ir–beta–endorphin, ACTH, cortisol, norepinephrine and glucose in the conscious dog. Radosevich PM, et al. **Brain Res** 1989 Sep 25;498(1):89–98

Simultaneous extraction of beta–endorphin and leu– and met–enkephalins from human and rat plasma. Bhathena SJ, et al. **Life Sci** 1989;45(10):901–6

Single–dose ethanol administration activates the hypothalamic–pituitary–adrenal axis: exploration of the mechanism of action. Thiagarajan AB, et al. **Neuroendocrinology** 1989 Oct;50(4):427–32

Dynamic training and circulating levels of corticotropin–releasing factor, beta–lipotropin and beta–endorphin in rheumatoid arthritis. Ekdahl C, et al. **Pain** 1990 Jan;40(1):35–42

[Opioid peptides in RA: modulation of immunologic mechanisms and mental states] Nakamura H, et al. **Arerugi** 1990 Feb;39(2 Pt 1):110–7 (Eng. Abstr.) **(Jpn)**

[Enkephalins and endorphins in unstable stenocardia] Matsak VV. **Vrach Delo** 1990 Jan;(1):59–61 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

N-terminal degradation of low molecular weight opioid peptides in human cerebrospinal fluid. Benter IF, et al. **Biochem Pharmacol** 1990 Aug 1;40(3):465–72

Semi-quantitative method for high molecular weight neuropeptides by high-performance liquid chromatography/thermospray mass spectrometry. Voyksner RD, et al. **Biomed Environ Mass Spectrom** 1989 Oct;18(10):897–903

Cerebrospinal fluid studies in the Rett syndrome: biogenic amines and beta-endorphins. Budden SS, et al. **Brain Dev** 1990;12(1):81–4

CSF beta-endorphins in childhood neuropsychiatric disorders. Gillberg C, et al. **Brain Dev** 1990;12(1):88–92

Opioid and tachykinin peptides, and their precursors and precursor-processing enzymes, in human cerebrospinal fluid. Liu DX, et al. **J Chromatogr** 1990 Feb 2;500:395–412

Increased cerebrospinal fluid levels of endorphin immunoreactivity in panic disorder. Eriksson E, et al. **Neuropsychopharmacology** 1989 Sep;2(3):225–8

Beta-endorphin-immunoreactivity in the ventricular CSF and plasma of comatose patients. Hamel E, et al. **Neurosurg Rev** 1989;12 Suppl 1:416–9

Beta-endorphin in cerebrospinal fluid and serum after severe head injury. Zimmerman RS, et al. **Neurosurgery** 1990 May; 26(5):764–70

Beta-endorphin, human caseomorphin and bovine caseomorphin immunoreactivity in CSF in sudden infant death syndrome and controls. Storm H, et al. **Prog Clin Biol Res** 1990;328:327–30

[Endogenous morphine in man] Presl J. **Cesk Gynekol** 1989 Aug;54(7):525–6 **(Cze)**

IMMUNOLOGY

Interaction between endogenous opioids and IL-2 on PHA-stimulated human lymphocytes. Kay NE, et al. **Immunology** 1990 Aug;70(4):485–91

METABOLISM

Peptide transport systems for opiates across the blood–brain barrier. Banks WA, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):E1–10 (126 ref.)

Absorption of beta-casomorphins from autoperfused lamb and piglet small intestine. Read LC, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G443–52

Evidence for Pro-dermorphin processing products in rat tissues. Mor A, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):30–8

The occurrence and receptor specificity of endogenous opioid peptides within the pancreas and liver of the rat. Comparison with brain. Khawaja XZ, et al. **Biochem J** 1990 Apr 1;267(1):233–40

[3H]naloxone as an opioid receptor label: analysis of binding site heterogeneity and use for determination of opioid affinities of casomorphin analogues. Schnittler M, et al. **Biomed Biochim Acta** 1990;49(4):209–18

Vasoactive neurochemicals identified in omentum: a preliminary report. Goldsmith HS, et al. **Br J Neurosurg** 1987;1(3):359–64

Chronic naltrexone infusion: effects on innervation of rat neurointermediate lobe. Saland LC, et al. **Brain Res Bull** 1990 Jun;24(6):779–86

High density of zinc-containing and dynorphin B- and substance P-immunoreactive terminals in the marginal division of the rat striatum. Shu SY, et al. **Brain Res Bull** 1990 Feb;24(2):201–5

Immunohistochemistry of opioid peptides in the guinea pig endocrine pancreas. Cetin Y. **Cell Tissue Res** 1990 Feb; 259(2):313–9

Opioid control of the hypothalamus–pituitary–adrenal axis cyclically fails in menstrual migraine. Facchinetti F, et al. **Cephalalgia** 1990 Feb;10(1):51–6

Possible involvement of beta-endorphin in the deteriorating effect of arginine vasopressin on burn shock in rats. Sun K, et al. **Circ Shock** 1989 Nov;29(3):167–74

A decrease in opioid tone amplifies the luteinizing hormone surge in estrogen-treated ovariectomized rats: comparisons with progesterone effects. Masotto C, et al. **Endocrinology** 1990 Jan;126(1):18–25

Opioid-like immunoreactants in human cervical cancer. Ottesen B, et al. **Gynecol Oncol** 1990 Feb;36(2):250–5

Ontogeny of the opiate phenotype: an approach to defining transsynaptic mechanisms at the molecular level in the rat adrenal medulla. La Gamma EF, et al. **Int J Dev Neurosci** 1989;7(5):499–511

Melatonin, and opioid peptide interactions in tardive dyskinesia. Sandyk R. **Int J Neurosci** 1989 Oct; 48(3–4):317–20 (32 ref.)

Possible involvement of endogenous opioids in beta-cell hyperresponsiveness in human obesity. Vettor R, et al. **Int J Obes** 1989;13(4):425–32 (34 ref.)

Purification of a novel type of calcium-activated neutral protease from rat brain. Possible involvement in production of the neuropeptide kyotorphin from calpastatin fragments. Yoshihara Y, et al. **J Biol Chem** 1990 Apr 5;265(10):5809–15

A method permitting precise trimming of resin-embedded tissue for ultrathin sectioning in pre-embedding immunoelectronmicroscopy. Valentijn JA, et al. **J Neurosci Methods** 1989 Oct;30(1):55–8

Influence of dopaminergic and noradrenergic systems on the release of opioid peptides in guinea-pig ileum. Milanés MV, et al. **J Pharm Pharmacol** 1989 Sep;41(9):607–11

Lack of effect of the opioid antagonist, naltrexone, on the in situ growth of C-1300, N1E-115 and NS206 murine neuroblastoma tumor cell lines. Horn PT, et al. **Life Sci** 1989;45(26):2539–45

Dextromethorphan and sigma ligands: common sites but diverse effects. Musacchio JM, et al. **Life Sci** 1989; 45(19):1721–32 (64 ref.)

Hemorphins, cytochrophins, and human beta-casomorphins bind to antiopiate (TYR-MIE-1) as well as opiate binding sites in rat brain. Zadina JE, et al. **Life Sci** 1990; 47(8):PL25–30

The elevation of immunoreactive beta-endorphin in old male rats is related to alterations in dopamine and serotonin. Forman LJ, et al. **Neurobiol Aging** 1990 May–Jun; 11(3):223–7

Ontogeny of the beta-endorphin response to stress in the rat: role of the pituitary and the hypothalamus. Angelogianni P, et al. **Neuroendocrinology** 1989 Oct; 50(4):372–81

Effects of chronic treatment with haloperidol and bromocriptine on the processing of beta-endorphin to gamma- and alpha-endorphin in discrete regions of the rat pituitary gland and brain. Sweep CG, et al. **Neuropharmacology** 1990 Jan;29(1):61–8

Nicotine protects against mu-opioid receptor antagonism by beta-funaltrexamine: evidence for nicotine-induced release of endogenous opioids in brain. Davenport KE, et al. **Neurosci Lett** 1990 May 18;113(1):40–6

Bimodal regulation of adrenal opiate peptides by cholinergic mechanisms. DeCristofaro JD, et al. **Neuroscience** 1990; 35(1):203–10

Interaction of endogenous opioid peptides and other drugs with four kappa opioid binding sites in guinea pig brain. Rothman RB, et al. **Peptides** 1990 Mar–Apr;11(2):311–31

Chimeric opioid peptides: tools for identifying opioid receptor types. Xie GX, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3180–4

Opioid peptide mRNAs in the rat pineal. Aloyo VJ, et al. **Prog Clin Biol Res** 1990;328:235–8

Responses of morphine dependent opioid neurones to stressors. Olley JE, et al. **Prog Clin Biol Res** 1990;328:511–4

Binding sites for non-opioid gamma-type endorphins in brain structures of the mesocorticolimbic feedback circuit. Wiegant VM, et al. **Prog Clin Biol Res** 1990;328:29–32

Opioid peptides and receptors. Localization, interactions and relationships to other molecules in the rodent brain, especially the hippocampal formation. Stengaard-Pedersen K. **Prog Histochem Cytochem** 1989;20(3):1–119 (393 ref.)

Endogenous opioids, stress induced analgesia, and posttraumatic stress disorder. van der Kolk BA, et al. **Psychopharmacol Bull** 1989;25(3):417–21

Absorption of intact beta-casomorphins (beta-CM) in rabbit ileum in vitro. Mahè S, et al. **Reprod Nutr Dev** 1989; 29(6):725–33

[Nerve tissue distribution and physiologic role of endogenous opioid peptides and their receptors—POMC-, proenkephalin A, proenkephalin B- derived opioid peptides and kyotorphin] Yamada T, et al. **Nippon Rinsho** 1990 May; 48(5):1042–52 **(Jpn)**

[Changes in the concentration of endogenous opiates in the blood and cerebrospinal fluid during acute painful stimuli and protective electroacupuncture analgesia] Gimmel'farb GN, et al. **Anesteziol Reanimatol** 1989 Nov–Dec;(6):27–30 (Eng. Abstr.) **(Rus)**

[Interaction of opioid peptides and monoamines in the mechanism of respiratory behavior regulation of Helix pomatia: analysis of isolated neurons] D'iakonova TL. **Dokl Akad Nauk SSSR** 1989;308(5):1264–9 **(Rus)**

[The effect of vasopressin on the concentration of regulatory peptides in the hippocampus of opiate-dependent animals] Gasanov GG, et al. **Dokl Akad Nauk SSSR** 1990; 310(6):1501–3 **(Rus)**

[Importance of endogenous opioids and prostaglandins in the action of analgin (metamizole) and verapamil] Vlaskovska M, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):25–9 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Bile salt–fatty acid mixed micelles as nasal absorption promoters of peptides. I. Effects of ionic strength, adjuvant composition, and lipid structure on the nasal absorption of [D-Arg2]kyotorphin. Tengamnuay P, et al. **Pharm Res** 1990 Feb;7(2):127–33

PHARMACOLOGY

Expression of HLA-class II antigens and proliferative capacity in autologous mixed lymphocyte reactions of human T lymphocytes exposed in vitro to alpha-endorphin. Morgano A, et al. **Brain Behav Immun** 1989 Sep;3(3):214–22

Involvement of multiple opiate receptors in opioid kindling. Cain DP, et al. **Brain Res** 1990 May 28;517(1–2):236–44

Modulation by neuropeptides of bradykinin-stimulated second messenger release in dorsal root ganglion neurons. Gammon CM, et al. **Brain Res** 1990 Jun 4;518(1–2):159–65

Gamma-endorphin affects retrieval of an inhibitory avoidance task. Dalmaz C, et al. **Braz J Med Biol Res** 1989; 22(9):1121–5

Effects of opioid peptides on the cellular immunity in spleen cells from intact nude mice or nude mice bearing human ovarian carcinoma. Kikuchi Y, et al. **Cancer Immunol Immunother** 1990;30(6):374–6

Effects of opiates during baroreceptor and ergoreceptor induced changes in blood pressure. Williams CA. **Cardiovasc Res** 1989 Mar;23(3):191–9

Inhibition of neuronally induced relaxation of canine lower esophageal sphincter by opioid peptides. Barnette MS, et al. **Eur J Pharmacol** 1990 Jul 3;182(2):363–8

Opioid receptor affinities of the blood-derived tetrapeptides hemorphin and cytochrophin. Liebmann C, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):523–6

Effects of opioid peptides on neural control of renal function in spontaneously hypertensive rats. Kapusta DR, et al. **Hypertension** 1990 Jun;15(6 Pt 2):767–73

Opioids modulate interleukin-1 production and secretion by bone-marrow macrophages. Apte RN, et al. **Immunol Lett** 1990 May;24(2):141–8

Stimulation of human peripheral lymphocytes by methionine enkephalin and delta-selective opioid analogues. Hucklebridge FH, et al. **Immunopharmacology** 1990 Mar–Apr;19(2):87–91

Attenuation of reserpine-induced catalepsy by melatonin and the role of the opioid system. Sandyk R, et al. **Int J Neurosci** 1989 Oct;48(3–4):297–301

Effect of casein and beta-casomorphins on gastrointestinal motility in rats. Daniel H, et al. **J Nutr** 1990 Mar; 120(3):252–7

Opioid-induced prejunctional inhibition of vasoconstriction in the rabbit ear artery: alpha-2 adrenoceptor activation and external calcium. Budai D, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):497–501

Behavioral changes induced by stressful situations: effects of enkephalins, dynorphin, and their interactions. Katoh A, et al. **J Pharmacol Exp Ther** 1990 May;253(2):600–7

Opioid-induced epileptiform bursting in hippocampal slices: higher susceptibility in ventral than dorsal hippocampus. Lee PH, et al. **J Pharmacol Exp Ther** 1990 May; 253(2):545–51

Dissociation of mu opioid tolerance from receptor down-regulation in rat spinal cord. Nishino K, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):67–72

Role of peripheral mu, delta and kappa opioid receptors in opioid-induced inhibition of gastrointestinal transit in rats. Tavani A, et al. **J Pharmacol Exp Ther** 1990 Jul;254(1):91–7

Beta-endorphin and related peptides suppress phorbol myristate acetate-induced respiratory burst in human polymorphonuclear leukocytes. Diamant M, et al. **Life Sci** 1989;45(17):1537–45

Lack of effect of opioid peptides, morphine and naloxone on superoxide formation in human neutrophils and HL-60 leukemic cells. Seifert R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Jul; 340(1):101–6

Different types of opioid receptors mediating analgesia induced by morphine, DAMGO, DPDPE, DADLE and beta-endorphin in mice. Suh HH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jul; 342(1):67–71

Chronic morphine exposure blocks opioid effects on both the early and late inhibitory postsynaptic potentials in hippocampal CA1 pyramidal cells. Wimpey TL, et al. **Neurosci Lett** 1990 Mar 14;110(3):349–55

Ventral hippocampal dentate granule cell lesions enhance motor seizures but reduce wet dog shakes induced by mu opioid receptor agonist. Lee PH, et al. **Neuroscience** 1990; 35(1):71–7

Effects of CRF, AVP and opioid peptides on pituitary-adrenal responses in sheep. Brooks AN, et al. **Peptides** 1989 Nov–Dec;10(6):1291–3

Effect of beta-casomorphin on neonatal sleep in rats. Taira T, et al. **Peptides** 1990 Jan–Feb;11(1):1–4

Rotational behaviour produced by intranigral injections of bovine and human beta-casomorphins in rats. Herrera-Marschitz M, et al. **Psychopharmacology (Berl)** 1989;99(3):357–61

Endogenous opioid peptides and epilepsy: quieting the seizing brain? Tortella FC. **Trends Pharmacol Sci** 1988 Oct; 9(10):366–72 (37 ref.)

[Opioid peptides and digestive activity. Recent directions of physiopathology] Grassi M, et al. **Clin Ter** 1989 Sep 15; 130(5):277–84 (18 ref.) (Eng. Abstr.) **(Ita)**

[In vitro effects of morphine and opioid peptides on neutrophil granulocyte aggregation and ATP release] Pasotti D, et al. **Recenti Prog Med** 1989 Oct;80(10):557–60 (Eng. Abstr.) **(Ita)**

[Neuropeptides and analgesic pharmacology] Satoh M. **Nippon Rinsho** 1990 May;48(5):1071–6 **(Jpn)**

[Regulatory effects of opioid peptides on bone marrow hematopoiesis in stress] Gol'dberg ED, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):216–9 (Eng. Abstr.) **(Rus)**

[The role of the terminal amino acids in the physiological activity of opioid peptides (lymph stimulation and vascular permeability)] Khugaeva VK. **Fiziol Zh SSSR** 1990 Jan; 76(1):92–9 (Eng. Abstr.) **(Rus)**

[The mechanism of the reinforcing effect of opiates] Evartau EE, et al. **Usp Fiziol Nauk** 1989 Jul–Sep;20(3):104–17 (82

ref.) (Rus)

PHYSIOLOGY

Neurohypophysial secretion to insulin-induced hypoglycemia and its regulation by endogenous opioids in women. Johnson MR, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):467-71

Renin-angiotensin system and opioids during acute hemorrhage in conscious rabbits. Schadt JC, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R543-51

Central opioid modulation of fetal cardiovascular function: role of mu- and delta-receptors. Szeto HH, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1453-8

Naloxone increases ventilatory response to hypercapnic hypoxia in healthy adult humans. Akiyama Y, et al. **Am Rev Respir Dis** 1990 Aug;142(2):301-5

The role of opioid peptides in immunomodulation. Gilmore W, et al. **Ann N Y Acad Sci** 1990;597:252-63 (78 ref.)

Opioids. Are they regulators of feeding? Levine AS, et al. **Ann N Y Acad Sci** 1989;575:209-19; discussion 219-20 (95 ref.)

Opioid peptides and aging. Morley JE, et al. **Ann N Y Acad Sci** 1990;579:123-32 (84 ref.)

Opioid peptides. Immunological significance? Teschemacher H, et al. **Ann N Y Acad Sci** 1990;594:66-77 (112 ref.)

Function of opioids early in embryogenesis. Vernadakis A, et al. **Ann N Y Acad Sci** 1990;579:109-22 (61 ref.)

Naloxone-reversible analgesic response to combat-related stimuli in posttraumatic stress disorder. A pilot study. Pitman RK, et al. **Arch Gen Psychiatry** 1990 Jun; 47(6):541-4

Possible role for endogenous opiates in the regulation of food intake in the newborn rat. Lal KJ, et al. **Arch Int Pharmacodyn Ther** 1989 Sep-Oct;301:91-9

Interaction between catecholaminergic and opioid systems in an active avoidance task. Bennett MC, et al. **Behav Neural Biol** 1990 Mar;53(2):258-68

Reinforcing properties of ejaculation in the male rat: role of opioids and dopamine. Agmo A, et al. **Behav Neurosci** 1990 Feb;104(1):177-82

Stress-induced suppression of natural killer cell cytotoxicity in the rat: a naltrexone-insensitive paradigm. Ben-Eliyahu S, et al. **Behav Neurosci** 1990 Feb;104(1):235-8

Endogenous opiates regulate the nocturnal reduction in luteinizing hormone pulse frequency during the luteal phase of the macaque menstrual cycle. Ji WZ, et al. **Biol Reprod** 1989 Dec;41(6):1024-33

Opposite central and peripheral control by endogenous opioids of intestinal motility in fed rats. Rivière PJ, et al. **Br J Pharmacol** 1989 Sep;98(1):236-42

Social confrontation "stress" in aggressive fish is associated with an endogenous opioid-mediated suppression of proliferative response to mitogens and nonspecific cytotoxicity. Faisal M, et al. **Brain Behav Immun** 1989 Sep; 3(3):223-33

Peripheral but not intracerebroventricular corticotropin-releasing hormone (CRH) produces antinociception which is not opioid mediated. Ayesta FJ, et al. **Brain Res** 1989 Dec 4;503(2):219-24

Hypercapnia depresses nociception: endogenous opioids implicated. Gamble GD, et al. **Brain Res** 1990 Apr 30; 514(2):198-205

Opioid mediation of cocaine-induced hyperactivity and reinforcement. Houdi AA, et al. **Brain Res** 1989 Sep 11; 497(1):195-8

Effects of intracerebroventricular infusions of naltrexone and phentolamine on central and peripheral oxytocin release and on maternal behaviour induced by vaginocervical stimulation in the ewe. Kendrick KM, et al. **Brain Res** 1989 Dec 29;505(2):329-32

Galanin-induced prolactin release in rats: pharmacological evidence for the involvement of alpha-adrenergic and opioidergic mechanisms. Koshiyama H, et al. **Brain Res** 1990 Jan 22;507(2):321-4

Analgesia and impact induced by anticipation stress: involvement of the endogenous opioid peptide system. Sumová A, et al. **Brain Res** 1989 Dec 4;503(2):273-80

Photoperiodic changes in opiate binding and their functional implications in golden hamsters. Tubbiola ML, et al. **Brain Res** 1989 Nov 27;503(1):91-9

Participation of opiate receptors located in the nucleus tractus solitarii in the hypotension induced by alpha-methyldopa. Van Giersbergen PL, et al. **Brain Res** 1989 Sep 25; 498(1):154-8

Opioidergic control of gonadotropin secretion in the female rabbit: divergent effects of morphine on secretion of follicle-stimulating hormone and luteinizing hormone. YoungLai EV, et al. **Can J Physiol Pharmacol** 1989 Dec; 67(12):1486-92

Opioid effects in developing rat vas deferens. Rónai AZ, et al. **Cell Mol Neurobiol** 1981 Dec;1(4):335-42

Effect of naloxone on maximal exercise performance and control of ventilation in COPD. Kirsch JL, et al. **Chest** 1989 Oct;96(4):761-6

Opioid peptides mediate sympathetic inhibition in response to baroreceptor activation in a distinct genetic strain of rabbit. Weinstock M, et al. **Clin Exp Pharmacol Physiol Suppl** 1989;15:97-101

Endogenous opioids may protect the perinatal brain in hypoxia. Lou HC, et al. **Dev Pharmacol Ther** 1989; 13(2-4):129-33

Opioid control of growth hormone in the suckled sow is primarily mediated through growth hormone releasing factor. Armstrong JD, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):191-8

Hypothalamic opioid mechanisms in experimental uremic hypogonadism. Dong QH, et al. **Endocrinology** 1990 Mar; 126(3):1498-503

The prepubertal hiatus in gonadotropin secretion in the male rhesus monkey (Macaca mulatta) does not appear to involve endogenous opioid peptide restraint of hypothalamic gonadotropin-releasing hormone release. Medhamurthy R, et al. **Endocrinology** 1990 Feb; 126(2):1036-42

Influence of endogenous opioids on atrial natriuretic factor release during exercise in man. Louisy F, et al. **Eur J Appl Physiol** 1989;59(1-2):34-8

Naloxone-reversible analgesia produced by microstimulation of the arcuate nucleus of the hypothalamus in pentobarbital-anesthetized rats. Wang Q, et al. **Exp Brain Res** 1990;80(1):201-4

Impaired thyroid function provoked by neonatal treatment with drugs affecting the maturation of monoaminergic and opioidergic neurons. Mess B, et al. **Exp Clin Endocrinol** 1989 Sep;94(1-2):73-81

Central nervous system action of peptides to influence gastrointestinal motor function. Taché Y, et al. **Gastroenterology** 1990 Feb;98(2):517-28 (132 ref.)

The pruritus of cholestasis: from bile acids to opiate agonists. Jones EA, et al. **Hepatology** 1990 May;11(5):884-7 (68 ref.)

Disappearance of opioidergic tone on LH secretion in underfed prepubertal sheep. Recabarren SE, et al. **Horm Metab Res** 1990 Apr;22(4):225-8

Different effects of aging on the opioid mechanisms controlling gonadotropin and cortisol secretion in man. Coiro V, et al. **Horm Res** 1989;32(4):119-23

Role of endogenous opioids and histamine in morphine induced emesis. Gupta YK, et al. **Indian J Exp Biol** 1989 Jan;27(1):52-4

Endogenous opioid peptides and cardiac arrhythmias. Lee AY. **Int J Cardiol** 1990 May;27(2):145-51 (79 ref.)

Endogenous opioid peptides and epilepsy. Ramabadran K, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Feb; 28(2):47-62 (174 ref.)

Glucose homeostasis and endogenous opioid peptides. Ramabadran K, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Mar;28(3):89-98 (111 ref.)

Antistress hormonal responses of analgesic nitrous oxide. Gillman MA, et al. **Int J Neurosci** 1989 Dec; 49(3-4):199-202

Hypothalamic-locus coeruleus mechanisms in the pathophysiology of "on-off" in L-dopa treated Parkinson's disease: a hypothesis. Sandyk R. **Int J Neurosci** 1989 Aug; 47(3-4):303-8 (37 ref.)

Involvement of arcuate nucleus of hypothalamus in the descending pathway from nucleus accumbens to periaqueductal grey subserving an antinociceptive effect. Yu LC, et al. **Int J Neurosci** 1989 Sep;48(1-2):71-8

Naloxone alters the early response to an inspiratory flow-resistive load. Scardella AT, et al. **J Appl Physiol** 1989 Nov;67(5):1747-53

Role of endogenous opiates in the modulation of gonadotropin secretion in infant monkeys (Macaca mulatta): effects of naltrexone. Osborn RG, et al. **J Med Primatol** 1989;18(5):405-14

The pineal neurohormone melatonin stimulates activated CD4+, Thy-1+ cells to release opioid agonist(s) with immunoenhancing and anti-stress properties. Maestroni GJ, et al. **J Neuroimmunol** 1990 Jul;28(2):167-76

Receptive-field changes induced by peripheral nerve stimulation in SI of adult cats. Recanzone GH, et al. **J Neurophysiol** 1990 May;63(5):1213-25

Opioids influence neurotransmitter phenotypic expression in chick embryonic neuronal cultures. Vernadakis A, et al. **J Neurosci Res** 1990 Jul;26(3):342-8

The role of endogenous opioid peptides in the regulation of the menstrual cycle. Ferin M. **J Steroid Biochem** 1989 Oct;33(4B):683-5 (13 ref.)

Opioid control of luteinizing hormone secretion in humans. Genazzani AR, et al. **J Steroid Biochem** 1989 Oct; 33(4B):751-5 (46 ref.)

Opioid modulation of tonic luteinizing hormone release in ovariectomized dairy cows. Nanda AS, et al. **J Vet Pharmacol Ther** 1989 Dec;12(4):397-403

Neuroendocrine control of thymic hormonal production. II. Stimulatory effects of endogenous opioids on thymulin production by cultured human and murine thymic epithelial cells. Savino W, et al. **Life Sci** 1990;46(23):1687-97

Predicting new effective treatments of alcohol addiction on the basis of their properties of inhibition of noradrenergic activity and/or thromboxane or on the activation of the dopamine reward system and/or beta-endorphin. Backon J. **Med Hypotheses** 1989 Aug;29(4):237-9

Endorphins and exercise: physiological mechanisms and clinical implications. Thorén P, et al. **Med Sci Sports Exerc** 1990 Aug;22(4):417-28 (165 ref.)

The next frontier in the molecular biology of the opioid system. The opioid receptors. Civelli O, et al. **Mol Neurobiol** 1987 Winter;1(4):373-91 (102 ref.)

Beta-endorphin mediates clonidine stimulated growth hormone release. Bruhn TO, et al. **Neuroendocrinology** 1989 Oct;50(4):460-3

Inhibitory effect of ethanol on the arginine vasopressin response to insulin-induced hypoglycemia and the role of endogenous opioids. Chiodera P, et al. **Neuroendocrinology** 1990 May;51(5):501-4

Periovulatory plasma prolactin response to gonadotropin-releasing hormone: role of endogenous opiates. De Marinis L, et al. **Neuroendocrinology** 1990 Jun; 51(6):717-20

Cholecystokinin interferes with the thermoregulatory effect of exogenous and endogenous opioids. Kapás L, et al. **Neuropeptides** 1989 Aug-Sep;14(2):85-92

Excitatory neurotransmitters in kindling: excitatory amino acid, cholinergic, and opiate mechanisms. Cain DP. **Neurosci Biobehav Rev** 1989 Winter;13(4):269-76 (69 ref.)

Opioids and the developing organism: a comprehensive bibliography, 1984-1988. Zagon IS, et al. **Neurosci Biobehav Rev** 1989 Winter;13(4):207-35

Activation of brainstem endorphinergic neurons causes cardiovascular depression and facilitates baroreflex bradycardia. Mastrianni JA, et al. **Neuroscience** 1989; 33(3):559-66

The role of opioids in analgesia and gastrointestinal function. Burks TF. **NIDA Res Monogr** 1989;95:167-73 (23 ref.)

Drug abuse and immune-neuroendocrine connections. Harbour D, et al. **NIDA Res Monogr** 1988;90:87-98 (54 ref.)

Arthritic inflammation in rats as a model of chronic pain: role of opioid systems. Herz A, et al. **NIDA Res Monogr** 1989;95:110-5 (22 ref.)

Opioid receptors and ligands. Kosterlitz HW, et al. **NIDA Res Monogr** 1989;95:159-66 (19 ref.)

Endogenous opioid peptides in the control of the normal menstrual cycle and their possible role in athletic menstrual irregularities. De Crée C. **Obstet Gynecol Surv** 1989 Oct; 44(10):720-32 (98 ref.)

Opioid, catecholamine, and steroid interaction in prolactin and gonadotropin regulation. Plosker SM, et al. **Obstet Gynecol Surv** 1990 Jul;45(7):441-53 (133 ref.)

Endogenous opioid peptides and farm animal reproduction. Haynes NB, et al. **Oxf Rev Reprod Biol** 1989;11:111-45 (109 ref.)

Peripheral opioid receptors mediating antinociception in inflammation. Activation by endogenous opioids and role of the pituitary-adrenal axis. Parsons CG, et al. **Pain** 1990 Apr;41(1):81-93

Endogenous opioid peptides in the control of food intake in cats. Bado A, et al. **Peptides** 1989 Sep-Oct;10(5):967-71

Opioids and central baroreflex control: a site of action in the nucleus tractus solitarius. Gordon FJ. **Peptides** 1990 Mar-Apr;11(2):305-9

Endogenous opiates: 1988. Olson GA, et al. **Peptides** 1989 Nov-Dec;10(6):1253-80 (400 ref.)

Is the polar bear (Ursus maritimus) a hibernator? Continued studies on opioids and hibernation. Bruce DS, et al. **Pharmacol Biochem Behav** 1990 Mar;35(3):705-11

Effects of opiate agonists and an antagonist on food intake and brain neurotransmitters in normophagic and obese "cafeteria" rats. Robert JJ, et al. **Pharmacol Biochem Behav** 1989 Nov;34(3):577-83

The opioid system in neurologic and psychiatric disorders and in their experimental models. Gulya K. **Pharmacol Ther** 1990;46(3):395-428 (550 ref.)

Possible involvement of endogenous opioid peptides in prolactin secretion induced by alpha 2-adrenergic stimulation in rats. Koshiyama H, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):105-8

Behavioral effects of endogenous or exogenous (mu, delta) opioid peptides: relation with DA mesolimbic pathways. Calenco-Choukroun G, et al. **Prog Clin Biol Res** 1990; 328:417-20

Endogenously released opioids inhibit inhibitory post synaptic potentials in guinea pig CA3 pyramidal cells and rat dentate granule cells. Caudle RM, et al. **Prog Clin Biol Res** 1990;328:5-8

Differential regulation of opioid systems in response to conditioned stress in rats. Przewlocka B, et al. **Prog Clin Biol Res** 1990;328:323-6

Role of opioid neuropeptides in immunoregulation. Stefano GB. **Prog Neurobiol** 1989;33(2):149-59 (75 ref.)

Opioid influences on pituitary function in sheep under basal conditions and during psychological stress. Parrott RF, et al. **Psychoneuroendocrinology** 1989;14(6):451-9

Sympathetic and hemodynamic adjustments to hemorrhage: a possible role for endogenous opioid peptides. Schadt JC. **Resuscitation** 1989 Dec;18(2-3):219-28 (14 ref.)

No pain, no gain? [news] Holloway M. **Science** 1990 Jun 15;248(4961):1313

Exercise and secondary amenorrhoea linked through endogenous opioids. Ruffin MT 4th, et al. **Sports Med** 1990 Aug;10(2):65-71 (57 ref.)

Low current electrostimulation produces naloxone-reversible analgesia in rats. Skolnick MH, et al. **Stereotact Funct Neurosurg** 1989;53(2):125-40

[The endogenous opiate and nonopiate analgesic system] Zhang CC. **Chen Tzu Yen Chiu** 1989;14(3):306-14 (Eng. Abstr.) (Chi)

[The central nervous system and inflammation: the role of opioid peptides] Mazzone A, et al. **Medicina (Firenze)** 1990 Jan-Mar;10(1):23-5 (Eng. Abstr.) (Ita)

[Role of endogenous opioids in the modulation of hypophyseal hormone secretion] De Marinis L, et al. **Minerva Med** 1990 Jan-Feb;81(1-2):5-14 (107 ref.) (Eng. Abstr.) (Ita)

[Neuropeptides and neoplasms] Pawlikowski M. **Pol Arch Med Wewn** 1988 Apr;79(4):177–80 **(Pol)**

[Opioid peptides, regulators of acetylcholinesterase activity] Muranevich SA, et al. **Biull Eksp Biol Med** 1989 Oct; 108(10):457–9 (Eng. Abstr.) **(Rus)**

[Participation of opioids and opioid receptors in antinociception at various levels of the nervous system] Herz A, et al. **Farmakol Toksikol** 1989 May–Jun;52(3):5–12 (Eng. Abstr.) **(Rus)**

[The interaction of the neuroendocrine and immune systems and the role of the opioid peptides in regulating immune homeostasis] Uteshev BS, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):10–6 (80 ref.) (Eng. Abstr.) **(Rus)**

[Effects of transcranial electrostimulation of the opioid systems on reparative processes in patients with myocardial infarct] Golikov AP, et al. **Kardiologiia** 1989 Dec; 29(12):45–8 (Eng. Abstr.) **(Rus)**

[The role of biologically active substances in the control of pain syndrome (review of the literature)] Puzin MN, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):129–35 (59 ref.) **(Rus)**

[Endorphins and lipotropins: relevant combined action (letter)] Halabe Bucay A. **Rev Invest Clin** 1989 Oct–Dec; 41(4):389–90 **(Spa)**

SECRETION

Effects of azepexole on opioid receptors and endogenous opioid release in the guinea pig ileum. Puig MM, et al. **Anesthesiology** 1990 May;72(5):846–50

Adrenalectomy increases beta-lipotropin secretion over beta-endorphin secretion from anterior pituitary corticotrophs. Young EA. **Life Sci** 1989;45(23):2233–7

Intracellular mechanisms governing the acute phase of beta-endorphin secretion from the corticotrope in vitro. Thomson M, et al. **Neurosci Lett** 1990 Mar 14;110(3):343–8

The release of alpha-neoendorphin from rat hippocampus following kainic acid-induced seizures. Lasoń W, et al. **Prog Clin Biol Res** 1990;328:257–60

THERAPEUTIC USE

Opioid therapy in the movement disorders [letter] Walters AS, et al. **Mov Disord** 1990;5(1):89–90

[The clinical importance of endogenous opioids] Seidel J. **Pharm Unserer Zeit** 1989 Sep;18(5):146–52 (18 ref.) **(Ger)**

ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY see **CHOLANGIOPANCREATOGRAPHY, ENDOSCOPIC RETROGRADE**

ENDOSCOPY

Endoscopic removal of residual calculi from horse-shoe kidney and ureter. Samodai L, et al. **Acta Chir Hung** 1989; 30(3):219–24

Endoscopic procedures in the treatment of pancreatic pain. Carr-Locke DL. **Acta Chir Scand** 1990 Apr;156(4):293–7; discussion 297–8

Combined use of brushing cytology and endoscopic retrograde pancreatography for the early detection of pancreatic cancer. Sawada Y, et al. **Acta Cytol** 1989 Nov–Dec;33(6):870–4

Conceptualization in endonasal endoscopic reconstructive surgery of the naso-paranasal cavities: imagination, realization and reformation. Takahashi R. **Acta Otolaryngol Suppl (Stockh)** 1989;466:1–12 (35 ref.)

Clinical application of endoscopic ultrasonography. Nickl NJ, et al. **Am J Gastroenterol** 1990 Jun;85(6):675–82

Early endoscopic sphincterotomy in patients with gallstone pancreatitis [letter; comment] Ludewig RM. **Am J Surg** 1989 Nov;158(5):479 Comment on: Am J Surg 1988 Jun;155(6):719.

Endoscopic ligation of esophageal varices. Van Stiegmann G, et al. **Am J Surg** 1990 Jan;159(1):21–5; discussion 25–6

Experimental and clinical applications of angioscopic guidance for laser angioplasty. White GH, et al. **Am J Surg** 1989 Dec;158(6):495–500; discussion 500–1

Peutz-Jeghers syndrome. A call for intraoperative enteroscopy. Panos RG, et al. **Am Surg** 1990 May; 56(5):331–3

Plumazenil in the outpatient. A study following midazolam as sedation for upper gastrointestinal endoscopy. Andrews PJ, et al. **Anaesthesia** 1990 Jun;45(6):445–8

Alfentanil used to supplement propofol infusions for oesophagoscopy and bronchoscopy. Kestin IG, et al. **Anaesthesia** 1989 Dec;44(12):994–6

Role of the soft palate in laryngeal functions and selected voice qualities. Simultaneous velolaryngeal videoendoscopy [published erratum appears in Ann Otol Rhinol Laryngol 1990 Jun;99(6 Pt 1):431] Yanagisawa E, et al. **Ann Otol Rhinol Laryngol** 1990 Jan;99(1):18–28

Endoscopic laser cholecystectomy. A new approach to gallbladder removal. Jackson DC, et al. **AORN J** 1990 Jun; 51(6):1546–52

The autonomous endoscopy unit. Designing it for maximum efficiency [see comments] Marmarinou J. **AORN J** 1990 Mar;51(3):764, 766, 768–9 passim Comment in: AORN J 1990 Jul;52(1):14, 16.

Intraoperative endoscopy of the small bowel. Treatment for occult hemorrhage. Shoaf BA, et al. **AORN J** 1990 Mar; 51(3):776–7, 779, 781–2

A comparative study of intraoperative angioscopy and completion arteriography following femorodistal bypass. Baxter BT, et al. **Arch Surg** 1990 Aug;125(8):997–1002

Endoscopic decompression for acute cholangitis due to stones. Worthley CS, et al. **Aust N Z J Surg** 1990 May; 60(5):355–9

Endoscopic treatment of biliary enteric fistula. Marshall T, et al. **BMJ** 1990 May 5;300(6733):1176

Dissemination of fibreoptic airway endoscopy skills by means of a workshop utilizing models. Dykes MH, et al. **Br J Anaesth** 1989 Nov;63(5):595–7

Intracerebral epithelial cyst: immunohistological diagnosis and endoneurosurgical treatment. Clark WC, et al. **Br J Neurosurg** 1989;3(4):507–12

Nonendoscopic techniques for manipulating Sacks-Vine gastrostomy tubes: technical note. Glass-Royal M, et al. **Cardiovasc Intervent Radiol** 1989 Nov–1990 Dec; 12(6):346–9

A sound idea [editorial; comment] Ferguson MK. **Chest** 1990 Sep;98(3):526–7 Comment on: Chest 1990 Sep;98(3):586–93.

Endoscopic ultrasound examination for mediastinal lymph node metastases of lung cancer [see comments] Kondo D, et al. **Chest** 1990 Sep;98(3):586–93 Comment in: Chest 1990 Sep;98(3):526–7.

Should radiologists perform gastrointestinal endoscopy? [letter; comment] **Clin Radiol** 1989 Nov;40(6):655–6 Comment on: Clin Radiol 1989 May;40(3):225–6.

Indications for fiberoptic angioscopy and intraluminal ultrasound. White RA. **Compr Ther** 1990 Jun;16(6):23–30

Peripheral angiography, angioplasty, atherectomy, laser techniques, thrombolysis, and stents. Dake MD. **Curr Opin Radiol** 1990 Apr;2(2):239–49 (43 ref.)

Endoscopic sclerosis prevents experimental reflux for longer than 12 months: reinforcement of the gastric component of the reflux barrier? Carvalho PJ, et al. **Curr Surg** 1990 Jan–Feb;47(1):20–2

Arterial oxygen saturation in sedated patients undergoing gastrointestinal endoscopy and a review of pulse oximetry [see comments] Visco DM, et al. **Del Med J** 1989 Oct; 61(10):533–42 Comment in: Del Med J 1989 Dec;61(12):683. Comment in: Del Med J 1989 Dec;61(12):684.

Randomized, double-blind trial of midazolam and diazepam for endoscopic sedation in children. Tolia V, et al. **Dev Pharmacol Ther** 1990;14(3):141–7

Biliary endoscopy. Proceedings of a symposium. Munich, 23–24 June 1989. **Endoscopy** 1989 Dec;21 Suppl 1:299–383

Disseminated intravascular coagulation (DIC) after endoscopic injection sclerotherapy with ethanolamine oleate [letter] Bellary SV, et al. **Endoscopy** 1990 May; 22(3):151

Endoscopic injection hemostasis of colonic diverticular bleeding: a case report. Bertoni G, et al. **Endoscopy** 1990 May;22(3):154–5

The effect of introducing endoscopic therapy on surgery and mortality rates for peptic ulcer hemorrhage. A single center analysis of 1,125 cases. Fullarton GM, et al. **Endoscopy** 1990 May;22(3):110–3

Ethics and training in digestive endoscopy [editorial] Gibinski K. **Endoscopy** 1989 Sep;21(5):232–3

Is the Forrest classification a useful tool for planning endoscopic therapy of bleeding peptic ulcers? Heldwein W, et al. **Endoscopy** 1989 Nov;21(6):258–62

Diagnostic cholangioscopy—comparison with conventional methods (radiology, ultrasonography). Jeppsson B, et al. **Endoscopy** 1989 Dec;21 Suppl 1:344–6 (19 ref.)

What kind of non-bleeding visible vessel in a peptic ulcer needs aggressive therapy? Long-term clinical observation. Lin HJ, et al. **Endoscopy** 1990 Jan;22(1):8–11

Role of Lugol dye endoscopy in the diagnosis of early esophageal cancer. Misumi A, et al. **Endoscopy** 1990 Jan; 22(1):12–6

Endoscopic tumor therapy. Neuhaus H. **Endoscopy** 1989 Dec; 21 Suppl 1:357–60 (11 ref.)

Cholangioscopic differentiation of biliary strictures and polyps. Nimura Y, et al. **Endoscopy** 1989 Dec;21 Suppl 1:351–6

Use of endoscopic ultrasonography for the diagnosis of colorectal tumors. Shimizu S, et al. **Endoscopy** 1990 Jan; 22(1):31–4

Effectiveness of endoscopic drainage for pancreas divisum: endoscopic and surgical results in 31 patients. Siegel JH, et al. **Endoscopy** 1990 May;22(3):129–33

Endoscopic placement of biliary endoprostheses in patients with endoscopically unextractable common bile duct stones. A long-term follow up study of 26 patients. Soomers AJ, et al. **Endoscopy** 1990 Jan;22(1):24–6

Correlation between hysterosalpingography and pelvic endoscopy for the evaluation of tubal factor. Moghissi KS, et al. **Fertil Steril** 1975 Dec;26(12):1178–81

Abstracts submitted to the American Society for Gastrointestinal Endoscopy. May 14–16, 1990, San Antonio, Texas. **Gastrointest Endosc** 1990 Mar–Apr; 36(2):185–233

Endoscopic simulation for training [editorial] Barde CJ. **Gastrointest Endosc** 1989 Sep–Oct;35(5):462–3

Monitoring and patient safety [letter; comment] Berman IR. **Gastrointest Endosc** 1990 Mar–Apr;36(2):160–1 Comment on: Gastrointest Endosc 1989 May–Jun;35(3):262–6.

Monitoring for conscious sedation: perspective of the gastrointestinal endoscopist. Fleischer D. **Gastrointest Endosc** 1990 May–Jun;36(3 Suppl):S19–22

Assuring quality of endoscopic procedures done outside a hospital [editorial] Kantrowitz PA, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):313–4

Intraoperative enteroscopy—indications and limitations. Lau WY. **Gastrointest Endosc** 1990 May–Jun;36(3):268–71

Endoscopic treatment of biliary tract fistulas. Ponchon T, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):490–8

Combination of midazolam and flumazenil in upper gastrointestinal endoscopy, a doubleblind randomized study. Rosario MT, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):30–3

The design and production of videotapes for endoscopic teaching [letter] Wells ST, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):83–5

Elimination of high titre HIV from fibreoptic endoscopes. Hanson PJ, et al. **Gut** 1990 Jun;31(6):657–9

Arterial oxygen saturation during upper gastrointestinal endoscopy: the effects of a midazolam/pethidine combination. Murray AW, et al. **Gut** 1990 Mar;31(3):270–3

Percutaneous fibercholangioscopies. Gazzaniga GM, et al. **Hepatogastroenterology** 1989 Oct;36(5):367–75

Nonsurgical control of upper gastrointestinal hemorrhage in old age patients: intragastric norepinephrine and endoscopic alcoholization of lesions. Acalovschi I, et al. **Intensive Care Med** 1990;16(3):180–3

Endoscopic suspension of the bladder neck by the Stamey method for urinary incontinence. Andersen J, et al. **Ital J Surg Sci** 1989;19(4):387–90

Endoscopic ultrasonography in a case of gastric leiomyoblastoma. Bonanno G, et al. **Ital J Surg Sci** 1989; 19(4):391–4

Upper gastrointestinal bleeding in portal hypertension [letter] Misra SP, et al. **J Assoc Physicians India** 1990 Mar; 38(3):250–1

Intraocular endoscope and intraocular lens implantation [letter] O'Donnell JE Jr, et al. **J Cataract Refract Surg** 1990 Jan;16(1):131–2

Diagnosis of islet cell tumor by means of endoscopic ultrasonography. Bolondi L, et al. **J Clin Gastroenterol** 1990 Apr;12(2):218–21

Emergency versus delayed endoscopic injection sclerotherapy [letter] Buchman AL. **J Clin Gastroenterol** 1990 Aug;12(4):480–1

Terminology and its application to computer-aided data processing in digestive endoscopy. Maratka Z, et al. **J Clin Gastroenterol** 1990 Apr;12(2):130–1

The effect of age on the relative potency of midazolam and diazepam for sedation in upper gastrointestinal endoscopy. Scholer SG, et al. **J Clin Gastroenterol** 1990 Apr; 12(2):145–7

Intraoperative endoscopic diagnosis of heterotopic gastric mucosa in the ileum causing recurrent acute intussusception. Turck D, et al. **J Pediatr Gastroenterol Nutr** 1990 Aug;11(2):275–8

Experiences with ureteroscopy. Spalding TJ. **J R Nav Med Serv** 1989 Summer;75(2):95–7

Flexible ureteropyeloscopy in the diagnosis of benign essential hematuria. Bagley DH, et al. **J Urol** 1990 Mar; 143(3):549–53

Percutaneous antegrade fiberoptic ureterorenoscopic treatment of ureteral calculi. Berkhoff WB, et al. **J Urol** 1990 Sep;144(3):628–30

Endoscopic manipulation of ureteral calculi in children by rigid operative ureterorenoscopy. Caione P, et al. **J Urol** 1990 Aug;144(2 Pt 2):484–5; discussion 492–3

Endoscopic correction of vesicoureteral reflux: our experience with 115 ureters. Farkas A, et al. **J Urol** 1990 Aug;144(2 Pt 2):534–6; discussion 545

Ureteroscopy in children. Hill DE, et al. **J Urol** 1990 Aug; 144(2 Pt 2):481–3; discussion 492–3

Management of simultaneous renal and ureteral calculi: combined extracorporeal shock wave lithotripsy and ureteroscopy under a single anesthetic. Jarowenko MV, et al. **J Urol** 1989 Nov;142(5):1186–8

Endoscopic diagnosis and treatment of chronic unilateral hematuria of uncertain etiology. Kumon H, et al. **J Urol** 1990 Mar;143(3):554–8

Review of an 8-year experience with modifications of endoscopic suspension of the bladder neck for female stress urinary incontinence. Loughlin KR, et al. **J Urol** 1990 Jan; 143(1):44–5

Re: Impact of endourology on diagnosis and management of upper urinary tract urothelial cancer [letter] Martínez-Piñeiro JA. **J Urol** 1990 Sep;144(3):750

Ureteroscopic visualization of a cavernous hemangioma of the renal pelvis. Motley RC, et al. **J Urol** 1990 Apr; 143(4):788–90

Expanding the role of the ureteroscope. Schwalb DM, et al. **J Urol** 1990 Mar;143(3):485–8

Peroperative endoscopy in Peutz-Jeghers syndrome [letter] Petroianu A, et al. **Lancet** 1989 Dec 9;2(8676):1403

Endoscopic sinus surgery in children with chronic sinusitis: a pilot study. Lusk RP, et al. **Laryngoscope** 1990 Jun; 100(6):654–8

An easy method for suctioning and irrigation during functional endoscopic sinus surgery. Salatich DG. **Laryngoscope** 1990 Jun;100(6):670

Endoscopic management of frontal sinus disease. Schaefer SD, et al. **Laryngoscope** 1990 Feb;100(2 Pt 1):155–60

Nd:YAG coagulation of the verumontanum: an endoscopic attempt at sterilization. Gilbert PT, et al.

Lasers Surg Med 1990;10(2):194–200

Endoscopy in inflammatory bowel disease: indications and differential diagnosis. Waye JD. **Med Clin North Am** 1990 Jan;74(1):51–65 (70 ref.)

Endoscopy can replace surgery for treatment of many patients with biliary obstruction. Cotton PB. **N C Med J** 1990 May;51(5):210–6 (12 ref.)

Endoscopic third ventriculostomy. Jones RF, et al. **Neurosurgery** 1990 Jan;26(1):86–91; discussion 91–2

Stereotactic guiding tube for open-system endoscopy: a new approach for the stereotactic endoscopic resection of intra-axial brain tumors. Otsuki T, et al. **Neurosurgery** 1990 Aug;27(2):326–30

Fimbrioscopy and salpingoscopy in patients with minimal to moderate pelvic endometriosis. Nezhat F, et al. **Obstet Gynecol** 1990 Jan;75(1):15–7

Panendoscopy: a valuable procedure? Hordijk GJ, et al. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):426–8

Transnasal transseptal endoscopic repair of sphenoidal cerebral spinal fluid fistula. Papay FA, et al. **Otolaryngol Head Neck Surg** 1989 Nov;101(5):595–7

Endoscopic sinus surgery: results at 2-year followup. Rice DH. **Otolaryngol Head Neck Surg** 1989 Oct;101(4):476–9

Microvascular angioscopy. Rottler PD, et al. **Plast Reconstr Surg** 1990 Mar;85(3):397–403; discussion 404–5

Endoscopic therapy for bleeding from the upper gastrointestinal tract. Lieberman D. **Postgrad Med** 1990 Mar;87(4):75–9, 82, 87–8

Treatment of achalasia by the endoscopic-pneumatic dilatation method. Dohrmann P, et al. **Prog Pediatr Surg** 1990;25:132–7

Esophagogastric carcinoma: preoperative TNM classification with endosonography. Tio TL, et al. **Radiology** 1989 Nov; 173(2):411–7

Flexible ureteroscopy. Bagley DH. **Semin Urol** 1989 Feb; 7(1):7–15

Endoscopy for ureteral stones in the age of extracorporeal shock wave lithotripsy. Riehle RA Jr. **Semin Urol** 1989 Feb;7(1):43–53 (51 ref.)

Ureteropyeloscopy for upper urinary tract diagnosis. Streem SB. **Semin Urol** 1989 Feb;7(1):30–8 (13 ref.)

Upper gastrointestinal endoscopy in children. Quak SH, et al. **Singapore Med J** 1990 Apr;31(2):123–6

Myeloscopic study on lumbar spinal canal stenosis with special reference to intermittent claudication. Ooi Y, et al. **Spine** 1990 Jun;15(6):544–9

Surgical endoscopy. **Surg Clin North Am** 1989 Dec; 69(6):1123–335

Endoscopic screening and surveillance for gastrointestinal malignancy. Dent TL, et al. **Surg Clin North Am** 1989 Dec; 69(6):1205–25 (146 ref.)

Endoscopic retrograde cholangiopancreatography, endoscopic sphincterotomy, and biliary drainage. Ghazi A, et al. **Surg Clin North Am** 1989 Dec;69(6):1249–74

Endoscopic laser applications in the gastrointestinal tract. Hunter JG. **Surg Clin North Am** 1989 Dec;69(6):1147–66 (65 ref.)

The surgeon as endoscopist. Marks G. **Surg Clin North Am** 1989 Dec;69(6):1123–7

Establishing an endoscopy unit for surgical training. Satava RM. **Surg Clin North Am** 1989 Dec;69(6):1129–45

Endoscopic diagnosis and treatment of mucosal lesions of the esophagus. Schwesinger WH. **Surg Clin North Am** 1989 Dec;69(6):1185–203 (104 ref.)

Endoscopic diagnosis and treatment of upper gastrointestinal bleeding. Sugawa C. **Surg Clin North Am** 1989 Dec; 69(6):1167–83 (89 ref.)

Endoscopic sclerotherapy. Terblanche J, et al. **Surg Clin North Am** 1990 Apr;70(2):341–59 (92 ref.)

2nd World Congress of Endoscopic Surgery. Ultrasound and Interventional Techniques. Atlanta, Georgia, March 16–18, 1990. Abstracts. **Surg Endosc** 1990;4(1):47–67

Endoscopic clip-marking of lesions using the newly developed HX-3L clip. Hachisu T, et al. **Surg Endosc** 1989; 3(3):142–7

Long-term endoscopic injection sclerotherapy of bleeding esophageal varices. A prospective analysis of results by endoscopy, manometry and 24-h pH-monitoring. Siemens F, et al. **Surg Endosc** 1989;3(3):137–41

Fiberoptic endoscopy of the gastrointestinal tract in surgical training. Myers JO, et al. **Surg Gynecol Obstet** 1990 Apr; 170(4):283–6

Assessing the role of routine choledochoscopy during exploration of the bile duct. Scher KS, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):9–12

Outcome and benefits of upper gastrointestinal endoscopy in the elderly. Brown DC, et al. **Ulster Med J** 1989 Oct; 58(2):177–81

Splashshield—a protective device for the endoscopist. Gottesman JE. **Urology** 1990 Jan;35(1):68–9

Emergency endoscopy: a basis for therapeutic decisions in the treatment of severe gastroduodenal bleeding. Pimpl W, et al. **World J Surg** 1989 Sep–Oct;13(5):592–7

[Therapeutic methods of digestive tract endoscopy in older persons] Frič P, et al. **Cas Lek Cesk** 1989 Dec 1; 128(49):1550–3 (Eng. Abstr.) (Cze)

[Endoscopic sclerotization as a method of treatment of esophageal varices] Smejkal K, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(2):157–62 (Eng. Abstr.) (Cze)

[Rhinoendoscopy] Dubin J, et al. **Allerg Immunol (Paris)** 1990 May;22(5):194 (Fre)

[Cholecystectomy under celioscopy] Dubois F, et al. **Ann Chir** 1990;44(3):206–5; discussion 205–6 (Eng. Abstr.) (Fre)

[Peroperative enteroscopy in recurrent hemorrhage of the small intestine] Pierrugues R, et al. **Ann Chir** 1989; 43(7):539–41 (Eng. Abstr.) (Fre)

[Capnography in high frequency jet ventilation (JVHF) in ORL endoscopies] Bourgain JL, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R268 (Fre)

[Antibiotic prophylaxis using cefamandole in endoscopic prostatic surgery: "flash" treatment versus short 24-hour treatment] Tauzin-Fin P, et al. **Ann Fr Anesth Reanim** 1989; 8 Suppl:R34 (Fre)

[Value of esophago-gastro-duodenal fibroscopy in upper digestive hemorrhages (apropos of an experience in Dakar)] Sow AM, et al. **Dakar Med** 1988;33(1–4):88–94 (Eng. Abstr.) (Fre)

[Anesthetic technics in digestive endoscopy] Bigard MA, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):651–3 (13 ref.) (Fre)

[Endoscopy and prognosis of upper digestive tract hemorrhage] Debongnie JC. **Gastroenterol Clin Biol** 1989 Nov;13(11):890–8 (94 ref.) (Fre)

[Sedation in digestive endoscopy] Devalois B, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):679–86 (54 ref.) (Fre)

[Endosonography in gastroenterology. Update in 1989] Guitton P, et al. **J Chir (Paris)** 1989 Oct;126(10):535–43 (43 ref.) (Eng. Abstr.) (Fre)

[Can ungual capillaroscopy and conjunctival angioscopy detect some diabetic micro-angiopathies? (letter)] Hamon P, et al. **Presse Med** 1990 Apr 14;19(15):721 (Fre)

[Endoscopic sclerotherapy of bleeding gastroduodenal ulcer (letter)] Riard P, et al. **Presse Med** 1990 May 5;19(18):872 (Fre)

[Echo-endoscopy: a new technic in the study of the digestive tract] Etienne M, et al. **Rev Med Liege** 1990 Apr; 45(4):157–63 (Fre)

[Endoscopy in the continuing education of surgeons] Manegold BC. **Chirurg** 1989 Nov;60(11):suppl 180–2 (Ger)

[A rare complication following endoscopic papillotomy—gallstone ileus] Schleusner V. **Chirurg** 1989 Dec;60(12):909–11 (Ger)

[Endoscopic injection therapy in acute non-varicose upper gastrointestinal hemorrhage] Roggo A, et al. **Dtsch Med Wochenschr** 1990 Aug 17;115(33):1227–31 (Eng. Abstr.) (Ger)

[Surgical, endoscopic or radiologic interventional therapy in bile duct cancer] Böttger T, et al. **Langenbecks Arch Chir** 1990;375(1):39–45 (Eng. Abstr.) (Ger)

[Video-endoscopic recording of the pharynx before and following nasal continuous positive airway pressure therapy in patients with obstructive sleep apnea] Becker H, et al. **Pneumologie** 1989 Nov;43 Suppl 1:616–20 (Eng. Abstr.) (Ger)

[Modern technical examination and treatment procedures in pediatric surgical gastroenterology] Rappert P. **Wien Med Wochenschr** 1989 Sep 30;139(18):441–2 (Ger)

[Imaging procedures for preparation of endoscopic paranasal sinus surgery in chronic sinusitis] Kopp W, et al. **Wien Med Wochenschr Suppl** 1989;104:suppl 63–6 (9 ref.) (Ger)

[44th meeting of the German Society for Digestive and Metabolic Diseases with the Section of Gastroenterological Endoscopy. Mainz, 27–30 September 1989. Abstracts] **Z Gastroenterol** 1989 Sep;27(9):465–599 (Ger)

[Computer-assisted documentation in upper gastrointestinal endoscopy: experiences with routine use at 3 clinics] Stöltzing H, et al. **Z Gastroenterol** 1989 Nov;27(11):667–75 (Eng. Abstr.) (Ger)

[Endoscopic perfusion manometry: diagnosis of functional biliary disorders] Liebe S, et al. **Z Gesamte Inn Med** 1989 Oct 15;44(20):626–31 (Eng. Abstr.) (Ger)

[Endoscopy and complementary procedures in children. Second international symposium of the Pediatric Surgery Clinic of the University of Munster. 5–7 November 1987. Proceedings] **Z Kinderchir** 1988 Sep;43 Suppl 1:1–72 (Ger)

[5 years' experience with endoscopic studies in children—value in diagnostic assessment] Krakamp B, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:36–8 (Ger)

[Intraoperative endoscopy in children] Willital GH. **Z Kinderchir** 1988 Sep;43 Suppl 1:33–5 (Ger)

[Surgical treatment of hemorrhaging gastroduodenal ulcer. Individually adapted indications] Unger W, et al. **Zentralbl Chir** 1989;114(22):1441–50 (Eng. Abstr.) (Ger)

[Endoscopic therapy in gastrointestinal malignancy] Bruck R, et al. **Harefuah** 1989 May 1;116(9):489–92 (42 ref.) (Heb)

[Swallowed toothbrush: an indication for immediate endoscopy] Kluger Y, et al. **Harefuah** 1989 Jun 1; 116(11):582–3 (Eng. Abstr.) (Heb)

[Endoscopy or surgery in the treatment of obstructive jaundice] Garbarini A, et al. **Minerva Chir** 1990 Apr 15; 45(7):447–54 (Eng. Abstr.) (Ita)

[Role of operative endoscopy in biliary neoplasia] Garbarini A, et al. **Minerva Chir** 1990 Apr 30;45(8):565–9 (Eng. Abstr.) (Ita)

[Alizapride in upper digestive endoscopy. A double-blind study vs metoclopramide and placebo] Bongiorno A, et al. **Minerva Dietol Gastroenterol** 1989 Oct–Dec;35(4):265–8 (Eng. Abstr.) (Ita)

[Digestive endoscopy in the diagnosis of upper gastrointestinal hemorrhage. A retrospective study of 340 cases] Manildo M, et al. **Minerva Med** 1989 Nov; 80(11):1211–4 (Eng. Abstr.) (Ita)

[Radiology or endoscopy as the primary research method in the study of the upper digestive tract? (editorial)] Catalano D. **Radiol Med (Torino)** 1990 Mar;79(3):149–50 (Ita)

[Efficacy of percutaneous transluminal coronary angioscopy] Mizuno K. **Nippon Ika Daigaku Zasshi** 1990 Feb;57(1):73–6 (Jpn)

[Endoscopic therapy in the gastrointestinal tract] Miwa T. **Nippon Naika Gakkai Zasshi** 1989 Oct;78(10):1424–9 (Jpn)

[The application of vascular endoscope for the extracranial cerebrovascular occlusive disease: the development of the endoscopic system] Miyamoto S, et al. **No Shinkei Geka** 1989 Jul;17(7):625–8 (Eng. Abstr.) (Jpn)

[The function of the endoscope] Yamaguchi T. **Rinsho Byori** 1990 Apr;38(4):399–402 (Eng. Abstr.) (Jpn)

[Emergency endoscopy in acute gastrointestinal hemorrhage in aerospace medicine] Palkin ND, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):49–53 (Eng. Abstr.) (Rus)

[Differential radiographic-endoscopic diagnosis of gastric ulceration] Portnoĭ LM, et al. **Khirurgiia (Mosk)** 1989 Dec; (12):54–8 (Eng. Abstr.) (Rus)

[Choledochoscopy through the cystic duct] Sinĕv IuV, et al. **Khirurgiia (Mosk)** 1989 Dec;(12):122 (Rus)

[Experimental automated system for studying spectral characteristics of tissues in reflected light] Solomonov VI, et al. **Med Tekh** 1990 May–Jun;(3):20–1 (Eng. Abstr.) (Rus)

[The consultative diagnostic center. The endoscopy department (the potentials and limitations)] Kuz'min AI, et al. **Ter Arkh** 1990;62(1):14–7 (Rus)

[Possibilities of the use of rigid and flexible ophthalmoendoscopes in the diagnosis and treatment of intraocular pathology] Volkov VV, et al. **Vestn Oftalmol** 1989 Jul–Aug;105(4):61–5 (Eng. Abstr.) (Rus)

[Endoscopic removal of gastric polyps in ambulatory conditions] Sotnikov VN. **Vopr Onkol** 1989;35(12):1472–5 (Eng. Abstr.) (Rus)

[Possibilities of emergency endoscopic diagnosis of hemorrhage in the upper gastrointestinal tract from a prognostic viewpoint] Bodo F, et al. **Rozhl Chir** 1989 Dec; 68(12):791–6 (Eng. Abstr.) (Slo)

[The importance of interventional endoscopy in biliary tract surgery] Černý J, et al. **Rozhl Chir** 1990 Mar;69(3):144–7 (Eng. Abstr.) (Slo)

[Value of the endoscopic sphinctero-papillotomy by surgical radiocholangiodebitometry] Castilla C, et al. **Acta Gastroenterol Latinoam** 1988;18(3):173–85 (Eng. Abstr.) (Spa)

[Endourologic treatment of tumors and pseudotumors of the upper excretory system] Salas M, et al. **Arch Esp Urol** 1990 Jan–Feb;43(1):51–8 (Eng. Abstr.) (Spa)

ADVERSE EFFECTS

Endocarditis prophylaxis and gastrointestinal procedures [editorial] Meyer GW. **Am J Gastroenterol** 1989 Dec; 84(12):1492–3

Controversies, dilemmas, and dialogues. Recommendations for antibiotic prophylaxis before endoscopy. Neu HC, et al. **Am J Gastroenterol** 1989 Dec;84(12):1488–91

Pitfalls of percutaneous-endoscopic biliary stent placement. Tam PC, et al. **Am J Gastroenterol** 1990 Feb;85(2):207–9

Prevalence of clinically relevant bacteremia after upper gastrointestinal endoscopy in bone marrow transplant recipients. Bianco JA, et al. **Am J Med** 1990 Aug; 89(2):134–6

Percutaneous endoscopic gastrostomy. Do surgeons and gastroenterologists get the same results? Davis JB Jr, et al. **Am Surg** 1990 Jan;56(1):47–51

Nasolacrimal duct obstruction after endoscopic sinus surgery. Serdahl CL, et al. **Arch Ophthalmol** 1990 Mar;108(3):391–2

Hypoxia and hypotension during endoscopy and colonoscopy. Lancaster JF, et al. **Aust N Z J Surg** 1990 Apr;60(4):271–3

Early postendoscopic sphincterotomy stenosis [letter; comment] Richieri JP. **Endoscopy** 1990 Mar;22(2):98 Comment on: Endoscopy 1989 Sep;21(5):237–9.

Oxygen desaturation is common and clinically underappreciated during elective endoscopic procedures. O'Connor KW, et al. **Gastrointest Endosc** 1990 May–Jun; 36(3 Suppl):S2–4

Hypoventilation during endoscopy: a questionable cause for arterial desaturation [letter; comment] Pecora AA. **J Clin Gastroenterol** 1990 Apr;12(2):242–3 Comment on: J Clin Gastroenterol 1989 Feb;11(1):17–22.

Cologastric fistula as a complication of percutaneous endoscopic gastrostomy. Stefan MM, et al. **JPEN J Parenter Enteral Nutr** 1989 Sep–Oct;13(5):554–6

Safety of transcervical endometrial resection [letter] Magos AL, et al. **Lancet** 1990 Jan 6;335(8680):44

Cardiac arrhythmias and electrocardiographic changes

during upper and lower gastrointestinal endoscopy. Gupta SC, et al. **Milit Med** 1990 Jan;155(1):9–11

Complications of ureteroscopy. Kramolowsky EV. **Semin Urol** 1989 Feb;7(1):39–42 (19 ref.)

[A case of perforation of the ureter occurring during ureteroscopy] Saltirov I, et al. **Khirurgiia (Sofiia)** 1989; 42(5):82–3 (Bul)

[Injury of the azygos vein. A new complication of upper digestive endoscopy] Scotte M, et al. **Ann Chir** 1990; 44(1):49–51 (Eng. Abstr.) (Fre)

[Bacteremia in therapeutic endoscopy] Stöppel G, et al. **Fortschr Med** 1990 Feb 28;108(6):100, 101–2 (Eng. Abstr.) (Ger)

[Complications in 39,397 endoscopic studies—a 7-year prospective documentation on method and incidence] Frühmorgen P, et al. **Leber Magen Darm** 1990 Jan; 20(1):20–32 (Eng. Abstr.) (Ger)

[Complications of endoscopic examinations of the upper segments of the gastrointestinal tract] Sotnikov VN, et al. **Klin Med (Mosk)** 1989 Nov;67(11):73–6 (Eng. Abstr.) (Rus)

[Problems in fiber endoscopy] Filimonov RM. **Ter Arkh** 1990; 62(4):141–4 (Rus)

[Antibiotic prophylaxis in endoscopic urologic surgery] Asuero Mantero M, et al. **Actas Urol Esp** 1989 Sep–Oct; 13(5):353–6 (Eng. Abstr.) (Spa)

[Ureteroileal fistula as a complication of ureterorenoscopy] Eres Sáez FJ, et al. **Arch Esp Urol** 1989 Apr;42(3):275–7 (Eng. Abstr.) (Spa)

ECONOMICS

Medicare and endoscopy reimbursement [letter] Thorpe JH. **Am J Gastroenterol** 1990 Jan;85(1):100

Choledochoscopy. A cost-minimization analysis. Nagorney DM, et al. **Ann Surg** 1990 Mar;211(3):354–9

HISTORY

[20 years of gastroenterological endoscopy. 1967–1987] **Z Gastroenterol** 1990;Spec No:1–201 (Ger)

INSTRUMENTATION

Percutaneous ventricular endomyocardial biopsy with angioscopic guidance. Uchida Y, et al. **Am Heart J** 1989 Nov;118(5 Pt 1):1039–41

Embryoscopy: description and utility of a new technique. Cullen MT, et al. **Am J Obstet Gynecol** 1990 Jan; 162(1):82–6

Impaction of the endoscopic basket. An important consideration in the trans-sphincteric management of choledocholithiasis. Landreneau RJ, et al. **Am Surg** 1990 Jun;56(6):388–93

Endoscopic retrograde cholangioscopy. An adjunct to endoscopic exploration of the common bile duct. Ponsky JL, et al. **Am Surg** 1990 Apr;56(4):235–7 (6 ref.)

The ureteroscope: an alternative to the intubating bronchoscope [letter] Cope DK. **Anesthesiology** 1990 May; 72(5):955

A modified tubular pharyngolaryngoscope for difficult pediatric laryngoscopy [letter] Diaz JH, et al. **Anesthesiology** 1990 Aug;73(2):357–8

Choledochoscopy via the cystic duct: evaluation of a new ultrathin disposable choledochoscope [see comments] Dennis MJ, et al. **Ann R Coll Surg Engl** 1989 Sep; 71(5):320–1 Comment in: Ann R Coll Surg Engl 1990 Mar;72(2):147–8.

Choledochoscopy via the cystic duct: evaluation of a new ultrathin disposable choledochoscope [letter; comment] Tinckler LF. **Ann R Coll Surg Engl** 1990 Mar;72(2):147–8 Comment on: Ann R Coll Surg Engl 1989 Sep;71(5):320–1.

Endoscopy of the eustachian tube: use of the fiberscope and the telescope. Conticello S, et al. **Arch Otorhinolaryngol** 1989;246(5):256–8

Angioscopy in transluminal balloon and laser angioplasty in the management of chronic hemodialysis fistulae. Koga N, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):193–6

The neodymium:yttrium aluminum garnet (Nd:Yag) laser. Absten GT. **Biomed Instrum Technol** 1990 Jan–Feb; 24(1):10–8 (0 ref.)

The scrotoscope. A new instrument for examining the scrotal contents. Shafik A. **Br J Urol** 1990 Feb;65(2):209–10

Disinfection in gastrointestinal endoscopy: current status. Frank U, et al. **Endoscopy** 1989 Nov;21(6):276–9 (21 ref.)

Operative laparoscopy: cholecystotomy. Frimberger E. **Endoscopy** 1989 Dec;21 Suppl 1:367–72

Technical potential and limitations of cholangioscopes. Komiya O. **Endoscopy** 1989 Dec;21 Suppl 1:338–40

Removal of impacted endoscopic basket and stone from the common bile duct by extracorporeal shock waves [letter] Merrett M, et al. **Endoscopy** 1990 Mar;22(2):92

A comparison of right versus left hepatic duct endoprosthesis insertion in malignant hilar biliary obstruction. Polydorou AA, et al. **Endoscopy** 1989 Nov;21(6):266–71

A new ultrasonic probe for endosonographic imaging of the upper GI-tract. Preliminary observations. Rösch T, et al. **Endoscopy** 1990 Jan;22(1):41–6

Technical aid for facilitating emergency endoscopy. Sonthcimer J, et al. **Endoscopy** 1989 Nov;21(6):283–4

Methods of disinfecting endoscopic material: results of an international survey. Van Gossum A, et al. **Endoscopy** 1989 Nov;21(6):247–50

Venous endoscopy in thrombectomy of the iliac veins using the choledochoscope. Risberg B, et al. **Eur J Vasc Surg** 1990 Jun;4(3):297–300

Flexible antegrade and retrograde nephroscopy: review of 50 cases. Puppo P, et al. **Eur Urol** 1990;17(3):193–9

Intraoperative fiberoptic choledochoscopy for malignant biliary tract obstruction. Chen MF, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):545–7

Non-instrumental small bowel perforation following upper gastrointestinal endoscopy [letter] Jeffrey GP, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):585–6

Endoscopic ultrasound probes. Kimmey MB, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2 Suppl):S40–6 (19 ref.)

Candida cellulitis: a complication of percutaneous endoscopic gastrostomy. Patel AS, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):571–2

Lasers in gastroenterology [see comments] Gogna A, et al. **J Assoc Physicians India** 1990 Apr;38(4):287–9 (18 ref.) Comment in: J Assoc Physicians India 1990 Apr;38(4):261–2.

When, what, and whom to laser [editorial; comment] Nanivadekar SA. **J Assoc Physicians India** 1990 Apr; 38(4):261–2 Comment on: J Assoc Physicians India 1990 Apr;38(4):287–9.

Depth of endometrial coagulation with the urologic resectoscope. Indman PD, et al. **J Reprod Med** 1990 Jun; 35(6):633–5

Upper urinary tract filling defects: flexible ureteroscopic diagnosis. Bagley DH, et al. **J Urol** 1990 Jun; 143(6):1196–200

Laser ureterolithotripsy with combined rigid and flexible ureterorenoscopy. Higashihara E, et al. **J Urol** 1990 Feb; 143(2):273–4

Flexible, actively deflectable fiberoptic ureteronephroscopy. Kavoussi L, et al. **J Urol** 1989 Oct;142(4):949–54

Modified subglottoscope in the treatment of recurrent respiratory papillomatosis. Matt BH, et al. **Laryngoscope** 1990 Sep;100(9):1022–4

Endoscopic laser coagulation through an optical laser balloon. Shimamura Y, et al. **Lasers Surg Med** 1990; 10(1):25–7

How well are endoscopes cleaned and disinfected between patients? [letter; comment] Denham JM. **Med J Aust** 1990 Jan 15;152(2):110–1 Comment on: Med J Aust 1989 Sep 4;151(5):269–72.

A new neurosurgical ventriculoscope—technical note. Oka K, et al. **Neurol Med Chir (Tokyo)** 1990 Jan;30(1):77–9

Videoimage ureteroscope. Yoshida K, et al. **Nippon Ika Daigaku Zasshi** 1990 Apr;57(2):192–3

Experience with the 8.5 French compact rigid ureteroscope. Huffman JL. **Semin Urol** 1989 Feb;7(1):3–6

Special applications of flexible deflectable ureterorenoscopy. Preminger GM, et al. **Semin Urol** 1989 Feb;7(1):16–24 (20 ref.)

Early experience with the 8.5 F compact ureteroscope. Huffman JL. **Surg Endosc** 1989;3(3):164–6

Ultrathin flexible endoscopes for ureteroscopy. A preliminary experimental and clinical study. Vorreuther R, et al. **Surg Endosc** 1989;3(4):212–5

The use of a choledochofiberscope for the intraoperative visualization of the intestine. Caine YG, et al. **Surg Gynecol Obstet** 1990 Jun;170(6):541–2

Use of resectoscope for colon cancer. Vaccaro JA, et al. **Urol Clin North Am** 1990 Feb;17(1):63–6

Removal of upper urinary tract calculi with flexible ureteropyeloscopy. Bagley DH. **Urology** 1990 May; 35(5):412–6

Operative nephroureteroscopy in childhood—indications and techniques. De Gennaro M, et al. **Z Kinderchir** 1988 Sep; 43 Suppl 1:65–7

Campylobacter pylori in children: endoscopic and histopathologic investigations. Falchetti D, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:50–1

[Advances in the development of cardiovascular fiberoptic endoscopy and its application] Li ZM, et al. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Aug; 17(4):248–50 (12 ref.) (Chi)

[Disinfection of endoscopic equipment: the desirable and the possible] Bigard MA. **Gastroenterol Clin Biol** 1990; 14(2):131–3 (22 ref.) (Fre)

[Evaluation of decontamination procedures used at digestive endoscopy units in Gironde] Raymond JM, et al. **Gastroenterol Clin Biol** 1990;14(2):134–9 (Eng. Abstr.) (Fre)

[Image-producing detection of porphyrin-marked tumors in the early stage] Baumgartner R, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:24–5 (Ger)

[Interventional radiology in bile duct diseases] Brambs HJ, et al. **Chirurg** 1989 Dec;60(12):840–5 (15 ref.) (Ger)

[Endoscopic-microsurgical dissection of the esophagus. I. An animal experiment study] Kipfmüller K, et al. **Chirurg** 1990 Mar;61(3):187–91 (Ger)

[Minimal invasive surgery. New methods in the treatment of gallstones] Demling L. **Fortschr Med** 1990 Apr 15; 108(11):24, 26 (Ger)

[Endoscopic-controlled laser lithotripsy of salivary calculi. In vitro studies and initial clinical use] Gundlach P, et al. **HNO** 1990 Jul;38(7):247–50 (Eng. Abstr.) (Ger)

[Experiences with the use of an intravascular 6 French endosonography catheter in vivo] Ludwig M, et al. **Klin Wochenschr** 1990 Jun 5;68(11):570–5 (Eng. Abstr.) (Ger)

[Endoscopic controlled laser lithotripsy in the treatment of sialolithiasis] Königsberger R, et al. **Laryngorhinootologie** 1990 Jun;69(6):322–3 (Eng. Abstr.) (Ger)

[What is new in nasopharyngeal video fiber optic endoscopy in the diagnosis of snoring and patients with obstructive apnea?] Schäfer J, et al. **Laryngorhinootologie** 1989 Sep; 68(9):521–8 (Eng. Abstr.) (Ger)

[Measures for reducing the rate of complications in endoscopic surgery of Zenker's diverticulum] Weerda H, et al. **Laryngorhinootologie** 1989 Dec;68(12):675–7 (Eng. Abstr.) (Ger)

[The use of glass fiber endoscopy in afterloading contact therapy] Strietzel M, et al. **Radiobiol Radiother (Berl)** 1989; 30(4):357–60 (Eng. Abstr.) (Ger)

[The technical requirements for percutaneous fine-caliber cholangioscopy. Experimental experiences with an animal model] Vorwerk D, et al. **ROFO** 1990 Jun;152(6):702–7 (Eng. Abstr.) (Ger)

[Ultra-thin, flexible ureteropyeloscopy: a new diagnostic possibility. An animal experiment and clinical pilot study] Vorreuther R, et al. **Urologe [A]** 1989 Sep;28(5):292–5 (Eng. Abstr.) (Ger)

[Endoscopic removal of ureteral calculi in the age of extracorporeal shockwave lithotripsy] Kaufmann F, et al. **Wien Med Wochenschr** 1990 Mar 15;140(5):146–8 (Eng. Abstr.) (Ger)

[Application procedures and indication areas for using lasers in gynecology] Herrmann U. **Z Arztl Fortbild (Jena)** 1990; 84(6):273–9 (5 ref.) (Ger)

[Laser surgery experiences in ENT practice] Nawka T, et al. **Z Arztl Fortbild (Jena)** 1990;84(6):280–4 (13 ref.) (Ger)

[Laser therapy in gastroenterology] Schulz HJ, et al. **Z Arztl Fortbild (Jena)** 1990;84(6):249–53 (Ger)

[Percutaneous endoscopy-controlled gastrostomy] Keymling M. **Z Gastroenterol** 1989 Jun;27 Suppl 2:65–8 (28 ref.) (Ger)

[Clinical aspects, diagnosis and therapy of cancer of Vater's ampulla] Erdmann K, et al. **Z Gesamte Inn Med** 1989 Oct 15;44(20):617–21 (20 ref.) (Eng. Abstr.) (Ger)

[Endoscopic treatment of gallstones: new technics] Riemann JF. **Z Gesamte Inn Med** 1989 Oct 15;44(20):605–9 (29 ref.) (Eng. Abstr.) (Ger)

[Endoscopic papillotomy in the treatment of choledocholithiasis—technic, indications, results] Schulz HJ. **Z Gesamte Inn Med** 1989 Oct 15;44(20):609–12 (Eng. Abstr.) (Ger)

[Ureter perforation in ureterorenoscopy—management and follow-up] Hienert G, et al. **Z Urol Nephrol** 1989 Sep; 82(9):455–7 (Eng. Abstr.) (Ger)

[The development of spinal endoscope using a flexible optic fiber] Miyamoto S, et al. **No To Shinkei** 1989 Dec; 41(12):1233–8 (Eng. Abstr.) (Jpn)

[Endoscopic high-frequency electrosurgical apparatus with the microprocessor control system "Endotom-1"] Belov SV, et al. **Med Tekh** 1990 Mar–Apr;(2):41–3 (Rus)

[Experience in the work with illuminator compressors for flexible endoscopes] Nemirovskiĭ ME, et al. **Med Tekh** 1989 Nov–Dec;(6):53–6 (Eng. Abstr.) (Rus)

[A re-focused angular endoscope with fiber optics] Vasin LN, et al. **Med Tekh** 1990 Mar–Apr;(2):14–6 (Eng. Abstr.) (Rus)

[Use of electron video-endoscopic system in the diagnostic and therapeutic endoscopy] Gallinger IuI, et al. **Sov Med** 1990;(4):29–31 (Eng. Abstr.) (Rus)

[An optical adapter for the lighting units and endoscopes] Karakhan VB, et al. **Vestn Khir** 1989 Sep;143(9):136 (Rus)

METHODS

Enteroscopy and enteroclysis: the combined procedure. Cohen ME, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1413–5

Retained bile duct stones: T-tube in place, percutaneous or endoscopic management? Cotton PB. **Am J Gastroenterol** 1990 Sep;85(9):1075–8 (43 ref.)

Intraoperative flexible videocholedochoscopy. An improved technique for evaluating the common duct. Apelgren KN, et al. **Am Surg** 1990 Mar;56(3):178–81

Choledochoscopy and common bile duct exploration. Wheeler BR, et al. **Am Surg** 1990 Mar;56(3):182–4 (14 ref.)

Calibrated approach to endoscopic sinus surgery. Lucente FE, et al. **Ann Otol Rhinol Laryngol** 1990 Jan;99(1):1–4

Endoscopic transnasal surgery in antrochoanal polyp. Kamel R. **Arch Otolaryngol Head Neck Surg** 1990 Jul;116(7):841–3

Functional endoscopic sinus surgery in aviators with recurrent sinus barotrauma. Bolger WE, et al. **Aviat Space Environ Med** 1990 Feb;61(2):148–56

Diagnosis of peripapillary carcinoma: endoscopic findings. Takeda Y, et al. **Biomed Pharmacother** 1989;43(6):439–46 (18 ref.)

Video-endoscopy: the remote operating technique. O'Boyle PJ. **Br J Urol** 1990 Jun;65(6):557–9 (4 ref.)

A comparison of sedation for upper GI endoscopy using diazepam with demerol or midazolam with alfentanil. Donelly M, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S21

Role of endoscopy in the diagnosis of cancer: a consensus statement prepared by a working party of the International Union against Cancer. Hunt RH, et al. **Cancer Res** 1989 Dec 1;49(23):6822–7 (98 ref.)

Endoscopic evaluation and treatment of sleep-associated

upper airway obstruction in infants and young children. Croft CB, et al. **Clin Otolaryngol** 1990 Jun;15(3):209–16
The clinical value of percutaneous transluminal angioscopy. Angioscopical findings in primary vascular diagnosis and in interventional radiology. Bech A, et al. **Clin Ter** 1989 Oct 31;131(2):93–105
The use of gastric salvage cytology in the diagnosis of malignancy: a review of 731 cases. Green LK, et al. **Diagn Cytopathol** 1990;6(1):1–4
Intraoperative and postoperative biliary endoscopy (choledochoscopy). Berci G. **Endoscopy** 1989 Dec;21 Suppl 1:330–2
Endoscopic transpapillary biopsy (ETPB) of human extrahepatic bile ducts—light and electron microscopic findings, clinical significance. Dancygier H. **Endoscopy** 1989 Dec;21 Suppl 1:312–20
Transpapillary cholecystoscopy. Foerster EC, et al. **Endoscopy** 1989 Dec;21 Suppl 1:381–3
Peroral cholecystoscopy. Fujita R, et al. **Endoscopy** 1989 Dec;21 Suppl 1:378–80
Percutaneous cholecystoscopy. Inui K, et al. **Endoscopy** 1989 Dec;21 Suppl 1:361–4
Percutaneous cholecystolithotomy. Kellett MJ, et al. **Endoscopy** 1989 Dec;21 Suppl 1:365–6
Endoscopic appearance of the normal biliary system. Lennert KA. **Endoscopy** 1989 Dec;21 Suppl 1:309–11
Indications for cholangioscopy. Liguory CL, et al. **Endoscopy** 1989 Dec;21 Suppl 1:341–3
Single-step percutaneous transhepatic cholecystoscopy. von Sanden H, et al. **Endoscopy** 1990 May;22(3):149–50
Percutaneous cholangioscopy for management of retained biliary tract stones and intrahepatic stones. Yamakawa T. **Endoscopy** 1989 Dec;21 Suppl 1:333–7
Comparison of peroral and percutaneous cholangioscopy. Yasuda K, et al. **Endoscopy** 1989 Dec;21 Suppl 1:347–50
The mechanism of angioplasty—endoscopic and morphometric investigations in an experimental model. Ebner H, et al. **Eur J Vasc Surg** 1989 Dec;3(6):543–7
Is routine dilation of the ureter necessary for ureteroscopy? Rodrigues Netto N Jr, et al. **Eur Urol** 1990;17(4):269–72
Flumazenil used for reversal of midazolam-induced sedation in endoscopy outpatients. Bartelsman JF, et al. **Gastrointest Endosc** 1990 May–Jun;36(3 Suppl):S9–12
Endoscopic removal of retained bile duct calculi via T-tube tract. Mathur SK, et al. **Indian J Gastroenterol** 1990 Apr; 9(2):123–5
Early endoscopic sphincterotomy in the management of acute gallstone pancreatitis in elderly patients. Shemesh E, et al. **J Am Geriatr Soc** 1990 Aug;38(8):893–6
Endoscopic injection treatment of non-variceal bleeding lesions of upper gastro-intestinal tract. Bhargava DK, et al. **J Assoc Physicians India** 1989 Aug;37(8):510–1
Pneumatic otoscopy: study of inter-observer variability. Mains BT, et al. **J Laryngol Otol** 1989 Dec;103(12):1134–5
The Luomanen oral airway and endotracheal tube holder as an aid to pediatric fiberoptic endoscopy. Roelofse JA, et al. **J Oral Maxillofac Surg** 1990 May;48(5):533–4
Falloposcopy. A microendoscopic transvaginal technique for diagnosing and treating endotubal disease incorporating guide wire cannulation and direct balloon tuboplasty. Kerin J, et al. **J Reprod Med** 1990 Jun;35(6):606–12
Endoscopic technique for sinus surgery. Brown JA, et al. **J S C Med Assoc** 1989 Sep;85(9):417–8
Endoscopic intravascular surgery removes intraluminal flaps, dissections, and thrombus. White GH, et al. **J Vasc Surg** 1990 Feb;11(2):280–6; discussion 286–8
New method of endoscopic measurement [letter] Rikimaru T, et al. **Lancet** 1990 Mar 17;335(8690):672–3
Sublabial sinoscopy. Gilbert JC. **Laryngoscope** 1990 Jun; 100(6):659–60
Endoscopic management of cerebrospinal fluid leaks and cephaloceles. Mattox DE, et al. **Laryngoscope** 1990 Aug; 100(8):857–62
Video endoscopic sinus surgery: a two-handed technique. May M, et al. **Laryngoscope** 1990 Apr;100(4):430–2
Rigid endoscopic repair of paranasal sinus cerebrospinal fluid fistulas. Papay FA, et al. **Laryngoscope** 1989 Nov; 99(11):1195–201
Unclogging the obstructed biologic cylinder [letter] Fleischer D. **N Engl J Med** 1990 Feb 15;322(7):477
Endoscopic nasal surgery. Chun TH, et al. **N J Med** 1989 Nov;86(11):883–5
Suprapubic teloscopy: extraperitoneal intraoperative technique to demonstrate ureteral patency. Timmons MC, et al. **Obstet Gynecol** 1990 Jan;75(1):137–9
Video documentation of endoscopic sinus surgery. Cannon CR. **Otolaryngol Head Neck Surg** 1989 Dec;101(6):629–32
The office diagnosis of nasal and sinus disorders using rigid nasal endoscopy. Levine HL. **Otolaryngol Head Neck Surg** 1990 Apr;102(4):370–3 (89 ref.)
Nasal endoscopic control of epistaxis—a preliminary report. Marcus MJ. **Otolaryngol Head Neck Surg** 1990 Mar; 102(3):273–5
Endonasal surgery. Hanrath CP. **Rhinol Suppl** 1989;9:76–80
Ureteroscopic manipulation of stones in the ureter: four years experience. Adolfsson J, et al. **Scand J Urol Nephrol** 1990; 24(2):113–5
Experience with endoscopic biliary drainage in Singapore. Guan R, et al. **Singapore Med J** 1990 Jun;31(3):221–4
Intraoperative and postoperative biliary endoscopy (choledochoscopy). Berci G. **Surg Clin North Am** 1989 Dec;69(6):1275–86
Endoscopy of the small intestine. Bowden TA Jr. **Surg Clin North Am** 1989 Dec;69(6):1237–47 (47 ref.)
Percutaneous endoscopic stomas. Ponsky JL. **Surg Clin North Am** 1989 Dec;69(6):1227–36
Treatment of postoperative duodenal fistulae by transparietal abdominal endoscopic intubation. Bloch P, et al. **Surg Endosc** 1989;3(3):167–9
Endoscopic fistulotomy and biliary drainage as the ultimate palliative treatment for obstruction due to malignant tumors of the papilla of Vater. Feretis C, et al. **Surg Endosc** 1990; 4(2):88–90
Experience with mini-invasive endoscopic removal of gallstones. Roesel RW. **Surg Endosc** 1989;3(3):124–5
Endoscopic stent configuration and bile flow rates in a variable diameter bile duct model. Scheeres D, et al. **Surg Endosc** 1990;4(2):91–3
Endoscopic sphincterotomy and endoscopic fulguration in the management of adenoma of the papilla of Vater. Shemesh E, et al. **Surg Gynecol Obstet** 1989 Nov; 169(5):445–8
[Endoscopic ultrasonography of the bile ducts] Palazzo L, et al. **Ann Chir** 1990;44(4):265–8 (28 ref.) (Fre)
[Prospective study on the value of esophageal transluminal echography (echoendoscopy) in tumor pathology] Gayet B, et al. **Pathol Biol (Paris)** 1989 Nov;37(9):997–8 (Fre)
[Endoscopic hemostasis via sclerosing injections in bleeding duodenal ulcer in children (letter)] Alandry G, et al. **Presse Med** 1990 May 26;19(21):1010 (Fre)
[Apropos of cholecystectomy under celioscopy (letter)] Noureddine M. **Presse Med** 1990 Feb 24;19(7):337 (Fre)
[Angioscopy of the coronary vessels] Wendt T, et al. **Versicherungsmedizin** 1990 Jun 1;42(3):83–8 (35 ref.) (Eng. Abstr.) (Ger)
[Time factors in endoscopic studies. A survey in West Germany] Phillip J, et al. **Z Gastroenterol** 1990 Jan; 28(1):1–9 (Eng. Abstr.) (Ger)
[Use of intraoperative transcystic choledoscopy in calculosis of the main bile duct] Rossi R, et al. **Minerva Chir** 1989 Nov 30;44(22):2303–5 (Eng. Abstr.) (Ita)
[Clinical experience with Ureteromat in transurethral ureterorenoscopy] Baba S, et al. **Nippon Hinyokika Gakkai Zasshi** 1989 Aug;80(8):1211–7 (Eng. Abstr.) (Jpn)
[Use of intracranial endoscopy in morphologic studies] Karakhan VB. **Arkh Anat Gistol Embriol** 1990 Jan; 98(1):75–82 (Rus)
[Diagnostic and therapeutic cholecystoscopy] Sinev IuV, et al. **Klin Med (Mosk)** 1989 Aug;67(8):76–80 (Eng. Abstr.) (Rus)
[Rigid ureteroscopy: results and complications] Franco Miranda E, et al. **Actas Urol Esp** 1990 Jan–Feb;14(1):4–7 (Eng. Abstr.) (Spa)
[Urinary lithiasis: alternatives to open surgery] Caralps A, et al. **Med Clin (Barc)** 1990 Feb 17;94(6):221–9 (118 ref.) (Spa)
[Video-endoscopy—a new step in diagnosis] Keistinen T. **Nord Med** 1990;105(6–7):192–4 (Eng. Abstr.) (Swe)

NURSING

Endoscopy article draws concerns [letter; comment] Cascio D. **AORN J** 1990 Jul;52(1):14, 16 Comment on: AORN J 1990 Mar;51(3):764, 766, 768–9 passim.

STANDARDS

Quality assurance: an overview and outline for gastrointestinal endoscopy. Wexler RM. **Am J Gastroenterol** 1989 Dec;84(12):1482–7 (28 ref.)
Privileges to perform endoscopy. Sivak MV Jr. **Gastrointest Endosc** 1990 Jan–Feb;36(1):73–4
Esophagogastroduodenoscopy by family physicians: a national multisite study of 717 procedures. Rodney WM, et al. **J Am Board Fam Pract** 1990 Apr–Jun;3(2):73–9

STATISTICS & NUMERICAL DATA

1989 A/S/G/E survey of endoscopic sedation and monitoring practices. Keeffe EB, et al. **Gastrointest Endosc** 1990 May–Jun;36(3 Suppl):S13–8

TRENDS

Gastrointestinal laser endoscopy—future horizons. Gostout CJ. **Mayo Clin Proc** 1990 Apr;65(4):509–17 (54 ref.)
Advances in therapeutic biliary endoscopy. Ponsky JL. **Ohio Med** 1990 Mar;86(3):189–90
Ureteroscopy: a 10-year perspective. Huffman JL. **Semin Urol** 1989 Feb;7(1):54–7
Surgical endoscopy and sonography. Surgery at the crossroads. Troidl H. **Surg Endosc** 1990;4(1):41–6
[Problems in the introduction of endourology] Minkov N, et al. **Khirurgiia (Sofiia)** 1989;42(5):67–9 (Eng. Abstr.) (Bul)
[Cholecystectomy via celioscopy, a technic of the future (letter)] Perissat J. **Presse Med** 1990 Feb 24;19(7):337 (Fre)

UTILIZATION

Endoscopic demands in the 90's. Scott B. **Gut** 1990 Feb; 31(2):125–6
Does inappropriate use explain small-area variations in the use of health care services? Leape LL, et al. **JAMA** 1990 Feb 2;263(5):669–72
The impact of an endoscopic laser service on gastroenterological practice. Myszor MF, et al. **Q J Med** 1989 Jan;70(261):73–9

VETERINARY

Effects of teat cistern mural biopsy and teatoscopy stab versus longitudinal incision with or without tube implant on incisional healing in lactating dairy cattle. Tulleners E, et al. **Am J Vet Res** 1990 Aug;51(8):1257–66

ENDOSCOPY, UTERINE see **HYSTEROSCOPY**

ENDOSSEOUS IMPLANTATION see **DENTAL IMPLANTATION, ENDOSSEOUS**

ENDOSSEOUS IMPLANTATION, ENDODONTIC see **DENTAL IMPLANTATION, ENDOSSEOUS, ENDODONTIC**

ENDOSULFAN

ANALYSIS

Residues and persistence of endosulfan in dry tobacco leaves and cigarettes. Papadopoulou-Mourkidou E, et al. **Bull Environ Contam Toxicol** 1990 Mar;44(3):394–400

PHARMACOLOGY

Inhibition of gill Na+ K(+)-ATPase activity in dragonfly larva, Pantala flavescens, by endosulfan. Yadwad VB, et al. **Bull Environ Contam Toxicol** 1990 Apr;44(4):585–9
Differential effects of chronic endosulfan exposure to male rats in relation to hepatic drug metabolism and androgen biotransformation. Singh SK, et al. **Indian J Biochem Biophys** 1989 Aug;26(4):262–7
Changes in lipid profiles of liver microsomes of rats following intratracheal administration of DDT or endosulfan. Narayan S, et al. **J Environ Sci Health [B]** 1990 Apr; 25(2):243–57
Lung subcellular fractions and surfactant lipid metabolism of rats exposed with DDT or endosulfan intratracheally. Narayan S, et al. **J Environ Sci Health [B]** 1990 Apr; 25(2):259–72
Inhibition of calmodulin-activated Ca2(-)-ATPase by endosulfan in rat brain. Srikanth NS, et al. **J Toxicol Environ Health** 1989;28(4):473–81

TOXICITY

Malate and lactate dehydrogenases of a freshwater catfish: impact of endosulfan. Tripathi G, et al. **Biomed Environ Sci** 1990 Mar;3(1):52–64
Effect of endosulfan on acid and alkaline phosphatase activity in liver, kidney, and muscles of Channa gachua. Sharma RM. **Bull Environ Contam Toxicol** 1990 Mar;44(3):443–8
Effect of endosulfan on glutathione S-transferase and glutathione content of the premoult field crab, Paratelphusa hydrodromus. Yadwad VB. **Bull Environ Contam Toxicol** 1989 Oct;43(4):597–602
Inhibition of hepatocyte gap junctional intercellular communication by endosulfan, chlordane and heptachlor. Ruch RJ, et al. **Carcinogenesis** 1990 Jul;11(7):1097–101
The effect of two sulphur-containing pesticides, fenitrothion and endosulfan, on glutathione (GSH) content and on GSH S-transferase and gamma-glutamyl transpeptidase activities in midgut gland of the American red crayfish Procambarus clarkii. Blat A, et al. **Drug Metabol Drug Interact** 1988; 6(3–4):383–94
Gonadal toxicity of short term chronic endosulfan exposure to male rats. Singh SK, et al. **Indian J Exp Biol** 1989 Apr; 27(4):341–6
Toxicity of endosulfan on kidney of male rats in relation to drug metabolizing enzymes and microsomal lipid peroxidation. Singh SK, et al. **Indian J Exp Biol** 1989 Aug; 27(8):725–8
Alterations in xenobiotic metabolizing enzymes in brain and liver of rats coexposed to endosulfan and malathion. Srikanth NS, et al. **J Appl Toxicol** 1990 Jun;10(3):157–60
Induction of phosphatidylcholine biosynthesis via CDPcholine pathway in lung and liver of rats following intratracheal administration of DDT and endosulfan. Narayan S, et al. **J Biochem Toxicol** 1989 Winter; 4(4):205–10
Studies on the genotoxicity of endosulfan, an organochlorine insecticide, in mammalian germ cells. Pandey N, et al. **Mutat Res** 1990 Sep;242(1):1–7

ENDOTHELIUM

ANALYSIS

Psophocarpus tetragonolobus agglutinin reveals N-acetyl galactosaminyl residues confined to endothelial cells and some epithelial cells in human tissues. Laitinen L, et al. **J Histochem Cytochem** 1990 Jun;38(6):875–84
[In-vitro incorporation of BUDR by the prostate and by human urothelium and immunohistological detection in plastic-encased sections] Bonnet P, et al. **Acta Urol Belg** 1989;57(4):817–29 (Eng. Abstr.) (Fre)

ANATOMY & HISTOLOGY

[Open lymph vessels of the ligamentum falciforme hepatis in the human] Tesch C, et al. **Langenbecks Arch Chir** 1990; 375(3):130–4 (Eng. Abstr.) (Ger)

BLOOD SUPPLY

Sites of endometrial vascular leakage during implantation in the rabbit. Hoffman LH, et al. **Anat Rec** 1990 May; 227(1):47–61

CYTOLOGY

A method to establish pure fibroblast and endothelial cell colony cultures from murine bone marrow. Fei RG, et al. **Exp Hematol** 1990 Sep;18(8):953–7

A homing receptor–IgG chimera as a probe for adhesive ligands of lymph node high endothelial venules. Watson SR, et al. **J Cell Biol** 1990 Jun;110(6):2221–9

A mouse lymphoid endothelial cell line immortalized by simian virus 40 binds lymphocytes and retains functional characteristics of normal endothelial cells. O'Connell KA, et al. **J Immunol** 1990 Jan 15;144(2):521–5

Macrophage migration through the endothelium in the absorbing peripheral lymphatic vessel of the small intestine. Azzali G, et al. **J Submicrosc Cytol Pathol** 1990 Apr; 22(2):273–80

A hemangioendothelioma–derived cell line: its use as a model for the study of endothelial cell biology. Obeso J, et al. **Lab Invest** 1990 Aug;63(2):259–69

Cytokines and endothelial cell biology. Pober JS, et al. **Physiol Rev** 1990 Apr;70(2):427–51 (304 ref.)

Designing cells to deliver drugs [news] Culliton BJ. **Science** 1989 Nov 10;246(4931):746

Endothelial cells to the rescue [news] Culliton BJ. **Science** 1989 Nov 10;246(4931):749

DRUG EFFECTS

Protective effects of vitamin E in age–related endothelial cell injury. Hennig B, et al. **Int J Vitam Nutr Res** 1989; 59(3):273–9

Downregulation of tumor necrosis factor receptors on macrophages and endothelial cells by microtubule depolymerizing agents. Ding AH, et al. **J Exp Med** 1990 Mar 1;171(3):715–27

Amiodarone–induced injury of human pulmonary artery endothelial cells: protection by alpha–tocopherol. Kachel DL, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):1107–12

Partial purification and characterization of an endothelial cell growth regulator from the bovine ovary. Roby KF, et al. **J Reprod Fertil** 1990 May;89(1):231–42

ENZYMOLOGY

Protein kinase C–regulated production of prostacyclin by rat endothelium is increased in the presence of lipoxin A4. Leszczynski D, et al. **FEBS Lett** 1990 Apr 9;263(1):117–20

IMMUNOLOGY

The ontogeny of human lymphocyte recirculation: high endothelial cell antigen (HECA–452) and CD44 homing receptor expression in the development of the immune system. Horst E, et al. **Eur J Immunol** 1990 Jul;20(7):1483–9

Macrophages and the activity of high endothelial venules. The effect of interferon–gamma. Mebius RE, et al. **Eur J Immunol** 1990 Jul;20(7):1615–8

Lymphocyte migration into the skin: the role of lymphocyte homing receptor (CD44) and endothelial cell antigen (HECA–452). Jalkanen S, et al. **J Invest Dermatol** 1990 Jun;94(6):786–92

Immunocytochemical changes suggestive of damage to endothelial cells during rejection of human cardiac allografts. Hengstenberg C, et al. **Transplantation** 1990 May;49(5):895–9

METABOLISM

Inhibition of proteoglycan synthesis in human endothelial cells after infection with herpes simplex virus type 1 in vitro. Kaner RJ, et al. **Am J Respir Cell Mol Biol** 1990 May;2(5):423–31

Interferon–gamma alters expression of endothelial cell–surface glycosphingolipids. Gillard BK, et al. **Arch Biochem Biophys** 1990 May 15;279(1):122–9

Intracellular transport of endocytosed proteins in rat liver endothelial cells. Kindberg GM, et al. **Biochem J** 1990 Aug 15;270(1):205–11

Mechanisms of endogenous nitrosation. Leaf CD, et al. **Cancer Surv** 1989;8(2):323–34 (59 ref.)

Microheterogeneity of human interleukin 6 synthesized by transfected NIH/3T3 cells: comparison with human monocytes, fibroblasts and endothelial cells. Schiel X, et al. **Eur J Immunol** 1990 Apr;20(4):883–7

Basal and stimulated formation and release of L–arginine–derived nitrogen oxides from cultured endothelial cells. Schmidt HH, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):591–7

Pressure waves caused by high–energy missiles impair respiration of cultured dorsal root ganglion cells. Suneson A, et al. **J Trauma** 1990 Apr;30(4):484–8

The use of cultured epithelial and endothelial cells for drug transport and metabolism studies. Audus KL, et al. **Pharm Res** 1990 May;7(5):435–51 (227 ref.)

Expression of keratins by endothelial cells: atavism or anarchy? [editorial] Battifora H. **Ultrastruct Pathol** 1990 Mar–Apr;14(2):iii–v

[Purine metabolism in endothelial cells] Griesmacher A, et al. **Z Med Lab Diagn** 1990;31(3):139–46 (Eng. Abstr.) (Ger)

MICROBIOLOGY

Cytotoxicity of Mycoplasma mycoides subspecies mycoides for cultured endothelial cells. Valdivieso–Garcia A, et al. **Int J Med Microbiol** 1989 Dec;272(2):202–9

Adherence of Mycoplasma mycoides subspecies mycoides to cultured endothelial cells. Valdivieso–Garcia A, et al. **Int J Med Microbiol** 1989 Dec;272(2):210–5

Viral infection of endothelial cells [letter; comment] Bruggeman CA, et al. **Rev Infect Dis** 1990 Mar–Apr; 12(2):367–9 Comment on: Rev Infect Dis 1989 May–Jun;11 Suppl 4:S700–4.

PATHOLOGY

Immunocytochemical demonstration of erythropoietin immunoreactivity in peritubular endothelial cells of the anemic mouse kidney. Suzuki T, et al. **Arch Histol Cytol** 1990 Mar;53(1):121–4

Vascular transformation of lymph node sinuses. A process displaying a spectrum of histologic features. Ostrowski ML, et al. **Arch Pathol Lab Med** 1990 Jul;114(7):656–60

Metastatic tumor cell interactions with endothelium, basement membrane and tissue. Nicolson GL. **Curr Opin Cell Biol** 1989 Oct;1(5):1009–19 (27 ref.)

Quantitation of human melanoma, carcinoma and sarcoma tumor cell adhesion to lymphatic endothelium. Bevacqua SJ, et al. **Lymphology** 1990 Mar;23(1):4–14

PHYSIOLOGY

Endothelial impairment inhibits prostaglandin and EDRF–mediated arteriolar dilation in vivo. Koller A, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1966–70

An ultrastructural and immunocytochemical analysis of human endothelial cell adhesion on coated vascular grafts. Curti T, et al. **Ann Vasc Surg** 1989 Oct;3(4):351–63

Specific inhibition of endothelial cell proliferation by thrombospondin. Bagavandoss P, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):867–72

Scavenger functions of the liver endothelial cell. Smedsrød B, et al. **Biochem J** 1990 Mar 1;266(2):313–27 (164 ref.)

Modulation of osteogenesis by isolated calvaria cells: a model for tissue interactions. Villanueva JE, et al. **Biomaterials** 1990 Jul;11:19–21

Effect of NG–monomethyl–L–arginine on endothelium–dependent relaxation of human subcutaneous resistance arteries. Woolfson RG, et al. **Clin Sci** 1990 Sep; 79(3):273–8

Growth regulatory activities of endothelial extracellular matrix: mediation by transforming growth factor–beta. Newton LK, et al. **Exp Cell Res** 1990 Sep;190(1):127–32

Functional capacities of high endothelial venules appear not to be controlled by recirculating lymphocytes. Duijvestijn AM, et al. **Immunobiology** 1990 Jun;180(4–5):295–307

Interferon–gamma–increased adherence of lymphocytes to high endothelial venules. Hendriks HR, et al. **Immunology** 1989 Oct;68(2):221–6

Promotion of calvarial cell osteogenesis by endothelial cells. Villanueva JE, et al. **J Bone Miner Res** 1990 Jul;5(7):733–9

19th annual UCLA symposium: The endothelial cell. Abstracts. **J Cell Biochem Suppl** 1990;14E:191–226

The potential unreliability of indium 111 oxine labeling in studies of endothelial cell kinetics. Patterson RB, et al. **J Vasc Surg** 1989 Dec;10(6):650–5

Signal transduction during platelet–activating factor–induced lymphocyte binding to endothelial cells. Renkonen R, et al. **Scand J Immunol** 1990 Apr;31(4):523–7

PHYSIOPATHOLOGY

Long–term cultured human vascular endothelial cells (EC–FP5) bind Plasmodium falciparum infected erythrocytes. Udeinya IJ, et al. **Am J Trop Med Hyg** 1989 Oct;41(4):400–5

ULTRASTRUCTURE

Endothelial attachment and plasmalemmal apposition in the transcellular movement of intravascular leukemic cells entering the myeloid parenchyma. De Bruyn PP, et al. **Am J Anat** 1989 Oct;186(2):115–26

Ultrastructural and immunohistochemical changes of the extracellular matrix during intimal cushion formation in the ductus arteriosus of the dog. de Reeder EG, et al. **Atherosclerosis** 1989 Sep;79(1):29–40

Actin cytoskeleton of extraembryonic endoderm and teratocarcinoma–derived endoderm cells. Tienari J. **Exp Cell Res** 1989 Oct;184(2):388–95

ENDOTHELIUM, ANTERIOR CHAMBER see **ENDOTHELIUM, CORNEAL**

ENDOTHELIUM, CORNEAL

ANALYSIS

A morphological study of the inner surface of the anterior chamber angle in pre and postnatal human eyes. McMenamin PG. **Curr Eye Res** 1989 Jul;8(7):727–39

ANATOMY & HISTOLOGY

Effect of silicone elastomer contact lens wear on endothelial cell morphology in aphakic eyes. Carlson KH, et al. **Cornea** 1990 Jan;9(1):45–7

The other side of the corneal endothelium. Sherrard ES, et al. **Cornea** 1990 Jan;9(1):48–54

Cat endothelial morphology after corneal transplant. Cohen KL, et al. **Curr Eye Res** 1990 May;9(5):445–50

Rapid method for vital staining of fresh and stored corneas. Melzig M, et al. **Z Mikrosk Anat Forsch** 1989;103(5):681–3

CYTOLOGY

The cell barrier effect in rabbit corneas kept under eye bank conditions. Medin W, et al. **Acta Ophthalmol (Copenh)** 1989 Dec;67(6):694–8

Vital staining by fluorescein diacetate (FDA). A method for the estimation of corneal endothelium. Wilhelm F, et al. **Acta Ophthalmol (Copenh)** 1990 Feb;68(1):94–6

Long–term inhibition of cellular proliferation by immunotoxins. Hermsen VM, et al. **Arch Ophthalmol** 1990 Jul;108(7):1009–11

Normal endothelial cell density range in childhood. Nucci P, et al. **Arch Ophthalmol** 1990 Feb;108(2):247–8

Specular microscopy [letter; comment] Brooks AM, et al. **Aust N Z J Ophthalmol** 1989 Aug;17(3):324 Comment on: Aust N Z J Ophthalmol 1988 Nov;16(4):273–4.

Role of the cytoskeleton during injury–induced cell migration in corneal endothelium. Gordon SR, et al. **Cell Motil Cytoskeleton** 1990;16(1):47–57

Long–term changes in corneal endothelium after keratoplasty. A follow–up study. Zacks CM, et al. **Cornea** 1990 Apr;9(2):92–7

Microcarrier cell culture of neonatal human corneal endothelium. Insler MS, et al. **Curr Eye Res** 1990 Jan; 9(1):23–30

Optimization of culture conditions for human corneal endothelial cells. Engelmann K, et al. **In Vitro Cell Dev Biol** 1989 Nov;25(11):1065–72

Transforming growth factor beta–1 positively modulates the bioactivity of fibroblast growth factor on corneal endothelial cells. Plouët J, et al. **J Cell Physiol** 1989 Nov; 141(2):392–9

Life span of human corneal endothelial cells in long–term cultures. Engelmann K, et al. **Ophthalmic Res** 1989; 21(4):303–8

Proliferation of corneal epithelial and endothelial cells in the trabecular region of human donor corneas in organ culture. Zagórski Z, et al. **Ophthalmic Res** 1990;22(1):51–6

Toward a quantitative analysis of corneal endothelial cell morphology: a review of techniques and their application. Doughty MJ. **Optom Vis Sci** 1989 Sep;66(9):626–42 (260 ref.)

Adhesion and spreading of corneal endothelial cells on collagens type I and IV in vitro: a model to study mechanisms of endothelial repair. Rixen H, et al. **Res Exp Med (Berl)** 1990;190(3):203–11

Circadian variation in the mitotic rate of the rat corneal epithelium. Cell divisions and migration are analyzed by a mathematical model. Håskjold E, et al. **Virchows Arch [B]** 1989;58(2):123–7

In vitro studies on the expansion of endothelial cell monolayers on components of the basement membrane. Kirkpatrick CJ, et al. **Virchows Arch [B]** 1990;58(3):207–13

[Tissue culture of infant corneal endothelial cells] Lin N. **Chung Hua Yen Ko Tsa Chih** 1989 Jul;25(4):218–9 (Eng. Abstr.) (Chi)

[Vital staining of the corneal endothelium—increased possibilities of diagnosis] Daus W, et al. **Fortschr Ophthalmol** 1989;86(4):259–64 (Eng. Abstr.) (Ger)

[Clinical significance of age–related regional differences in distribution of human corneal endothelium] Daus W, et al. **Klin Monatsbl Augenheilkd** 1990 Jun;196(6):449–55 (Eng. Abstr.) (Ger)

[Transformation of human corneal endothelial cells by micro–injection of oncogenes] Zavizion BA, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):395–8 (Eng. Abstr.) (Rus)

DRUG EFFECTS

A bisulfite–free intraocular epinephrine solution. Slack JW, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):77–82

Effects of intracameral injection of viscoelastic solutions on corneal endothelium in dogs. Gerding PA Jr, et al. **Am J Vet Res** 1990 Jul;51(7):1086–8

Toxic effects of detergents on the corneal endothelium. Nuyts RM, et al. **Arch Ophthalmol** 1990 Aug;108(8):1158–62

Endothelial cell damage in human and rabbit corneas stored in K–Sol without antioxidants. Reddy TS, et al. **Br J Ophthalmol** 1989 Oct;73(10):803–8

Cellular injury from sustained vs. acute hydrogen peroxide exposure in cultured human corneal endothelium and human lens epithelium. Polansky JR, et al. **CLAO J** 1990 Jan–Mar;16(1 Suppl):S23–8; discussion S29

Retinoid–induced potentiation of epidermal growth factor mitogenic effect on corneal endothelial cells. Junquéro D, et al. **Cornea** 1990 Jan;9(1):41–4

The effect of gentamicin on the corneal endothelium. An

experimental study. Petroutsos G, et al. **Cornea** 1990 Jan; 9(1):62–5

Lipid soluble antioxidants preserve rabbit corneal cell function. Lux-Neuwirth O, et al. **Curr Eye Res** 1990 Feb; 9(2):103–9

Stimulation of corneal endothelial wound healing in cats by mesodermal growth factor. Rich LF, et al. **Curr Eye Res** 1990 Jun;9(6):509–16

Ascorbate-enhanced copper toxicity on bovine corneal endothelial cells in vitro. Yu HS, et al. **Curr Eye Res** 1990 Feb;9(2):177–82

Retinoids enhance the number of EGF receptors in corneal endothelial cells. Junquéro D, et al. **Exp Eye Res** 1990 Jul; 51(1):49–53

Corneal endothelial junctions and the effect of ouabain. Watsky MA, et al. **Invest Ophthalmol Vis Sci** 1990 May; 31(5):933–41

Effects of fibroblast growth factor and chondroitin sulfate on predamaged corneal endothelium. An organ culture study. Lin CP, et al. **Ophthalmic Res** 1990;22(3):173–7

[Endothelial involvement of injection of silicone into the vitreous body] Raspiller A, et al. **Bull Soc Ophtalmol Fr** 1989 Aug-Sep;89(8–9):1045–50 (Eng. Abstr.) (Fre)

[Morphology of the corneal endothelium following preservation in dextran or chondroitin sulfate containing culture media] Abramo F, et al. **Fortschr Ophthalmol** 1990; 87(3):234–6 (Eng. Abstr.) (Ger)

[Toxicity of cyclosporin A for corneal endothelium in tissue culture] Böhnke M, et al. **Fortschr Ophthalmol** 1989; 86(4):291–4 (Eng. Abstr.) (Ger)

[Loss of corneal endothelial cells following pars plana vitrectomy and silicone oil implantation] Legler U, et al. **Fortschr Ophthalmol** 1990;87(3):290–3 (Eng. Abstr.) (Ger)

[In vitro corneal endothelial damage caused by intraocular lenses of PMMA, silicone and polyhema] Pharmakakis N, et al. **Fortschr Ophthalmol** 1989;86(4):295–7 (Eng. Abstr.) (Ger)

ENZYMOLOGY

Physiologic neutralization mechanisms and the response of the corneal endothelium to hydrogen peroxide. Riley MV. **CLAO J** 1990 Jan-Mar;16(1 Suppl):S16–21; discussion S21–2 (18 ref.)

GROWTH & DEVELOPMENT

Changes in extracellular matrix proteins and actin during corneal endothelial growth. Gordon SR. **Invest Ophthalmol Vis Sci** 1990 Jan;31(1):94–101

Corneal endothelium modulation factor released by polymorphonuclear leukocytes. Partial purification and initial characterization. Kay EP, et al. **Invest Ophthalmol Vis Sci** 1990 Feb;31(2):313–22

Effect of low oxygen tension on the growth of bovine corneal endothelial cells in vitro. Zagórski Z, et al. **Ophthalmic Res** 1989;21(6):440–2

[Postnatal development of corneal endothelial cells in normal children] Tsukahara Y, et al. **Nippon Ganka Gakkai Zasshi** 1989 Jul;93(7):763–8 (Eng. Abstr.) (Jpn)

IMMUNOLOGY

Sporadic diffuse corneal endotheliitis. Hakin KN, et al. **Am J Ophthalmol** 1989 Nov 15;108(5):509–15

Expression of HLA by the human trabecular meshwork and corneal endothelium. Tripathi BJ, et al. **Exp Eye Res** 1990 Sep;51(3):269–76

Class II alloantigen induced on corneal endothelium. Role in corneal allograft rejection. Donnelly JJ, et al. **Invest Ophthalmol Vis Sci** 1990 Jul;31(7):1315–20

Risk of endothelial rejection after bilateral penetrating keratoplasty. Musch DC, et al. **Ophthalmology** 1989 Aug; 96(8):1139–43

INJURIES

Endothelial repair of posterior corneal wounds in rabbits. Influence of foetal calf serum in the culture medium. Medin H, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):195–9

METABOLISM

Dye and electrical coupling between cells of the rabbit corneal endothelium. Rae JL, et al. **Curr Eye Res** 1989 Aug;8(8):859–69

Effects of ambient bicarbonate, phosphate and carbonic anhydrase inhibitors on fluid transport across rabbit corneal endothelium. Kuang KY, et al. **Exp Eye Res** 1990 May; 50(5):487–93

A non-selective cation channel in rabbit corneal endothelium activated by internal calcium and inhibited by internal ATP. Rae JL, et al. **Exp Eye Res** 1990 Apr;50(4):373–84

In vitro corneal endothelial permeability in rabbit and human: the effects of age, cataract surgery and diabetes. Watsky MA, et al. **Exp Eye Res** 1989 Nov;49(5):751–67

Two different proteoheparan sulfate species are synthesized by bovine corneal endothelial cells. Wollensak J, et al. **Exp Eye Res** 1990 Sep;51(3):287–93

Experimental autologous inverse keratoplasty—epithelial, stromal and endothelial interactions. Zagórski Z, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(1):55–7

Hyaluronate binding to intact corneas and cultured endothelial cells. Madsen K, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2132–7

Muscarinic receptors and their regulation of cyclic GMP in corneal endothelial cells. Walkenbach RJ, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):702–7

PATHOLOGY

Anterior mesenchymal dysgenesis of the eye. Congenital hereditary endothelial dystrophy and congenital glaucoma. Pedersen OO, et al. **Acta Ophthalmol (Copenh)** 1989 Aug; 67(4):470–6

Surface cell morphology of the anesthetic human cornea: a color specular microscopic study. Lemp MA, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:102–7

Visual loss from endothelial cell melanization of the cornea. Mosteller MW, et al. **Am J Ophthalmol** 1990 Jun 15; 109(6):733–5

Corneal endothelial changes in ocular hypertensive individuals after long-term unilateral treatment with timolol. Nesher R, et al. **Am J Ophthalmol** 1990 Sep 15; 110(3):309–10

An in vitro model study of BSp73 rat tumour cell invasion into endothelial monolayer. Boxberger HJ, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1777–86

Toxic endothelial cell destruction of the cornea after routine extracapsular cataract surgery. Breebaart AC, et al. **Arch Ophthalmol** 1990 Aug;108(8):1121–5

The effect of anterior chamber depth on endothelial cell count after filtration surgery. Fiore PM, et al. **Arch Ophthalmol** 1989 Nov;107(11):1609–11

A new test for endothelial viability. The Janus green photometry technique. Hartmann C, et al. **Arch Ophthalmol** 1989 Oct;107(10):1511–5

A comparison of the clinical variations of the iridocorneal endothelial syndrome. Wilson MC, et al. **Arch Ophthalmol** 1989 Oct;107(10):1465–8

Assessment of the corneal endothelium following keratoplasty. Brooks AM, et al. **Aust N Z J Ophthalmol** 1989 Nov;17(4):379–85

Preoperative assessment of the corneal endothelium [letter; comment] Kaufman D. **Aust N Z J Ophthalmol** 1989 Aug; 17(3):322 Comment on: Aust N Z J Ophthalmol 1988 Nov;16(4):309–16.

Corneal endothelial changes after posterior chamber intraocular lens implantation in patients with or without diabetes mellitus [see comments] Furuse N, et al. **Br J Ophthalmol** 1990 May;74(5):258–60 Comment in: Br J Ophthalmol 1990 May;74(5):257.

Amitosis in human donor corneal endothelium—a serendipity? [letter] Nartey IN, et al. **Br J Ophthalmol** 1990 Jan;74(1):63

Complications of anterior chamber lens implants and their effects on the endothelium. Walters RF, et al. **Eye** 1989; 3 (Pt 6):690–5

Specular microscopy of unilateral hard contact lens wearers. Dada VK, et al. **Indian J Ophthalmol** 1989 Jan-Mar; 37(1):17–9

Comparison of endothelial damage produced by control and surface modified poly(methyl methacrylate) intraocular lenses. Balyeat HD, et al. **J Cataract Refract Surg** 1989 Sep;15(5):491–4

Relationship of corneal endothelial morphology to diabetic retinopathy, duration of diabetes and glycemic control. Matsuda M, et al. **Jpn J Ophthalmol** 1990;34(1):53–6

Endothelial specular microscopy in children with retrolental fibroplasia undergoing open-sky vitrectomy. Sawa M, et al. **Jpn J Ophthalmol** 1990;34(1):1–14

Specular microscopy of hard contact lens wearers II. Yamauchi K, et al. **Ophthalmology** 1989 Aug;96(8):1176–9

Corneal endothelial response to refitting polymethyl methacrylate wearers with rigid gas-permeable lenses. McLaughlin R, et al. **Optom Vis Sci** 1990 May;67(5):346–51

Corneal endothelial polymegethism: a neural crest defect. Nucci P. **Optom Vis Sci** 1990 May;67(5):380–1

The surface of the corneal graft: in vivo color specular microscopic study in the human. Lemp MA. **Trans Am Ophthalmol Soc** 1990;87:619–57

Prospective 5-year postoperative study of cataract extraction and lens implantation. Liesegang TJ, et al. **Trans Am Ophthalmol Soc** 1990;87:57–75; discussion 76–8

An analysis of corneal endothelial and graft survival in pseudophakic bullous keratopathy. Sugar A. **Trans Am Ophthalmol Soc** 1990;87:762–801

[Effects of elevated intraocular pressure on the morphology and function of the corneal endothelium in rabbits] Liu S. **Chung Hua Yen Ko Tsa Chih** 1989 Mar;25(2):104–7 (Eng. Abstr.) (Chi)

[Further studies on the functional decompensation of corneal endothelial cells] Xie LX. **Chung Hua Yen Ko Tsa Chih** 1989 May;25(3):141–3 (Eng. Abstr.) (Chi)

[Endothelial function in contact lens-induced deep corneal opacities] Göbbels M, et al. **Fortschr Ophthalmol** 1989; 86(5):448–50 (Eng. Abstr.) (Ger)

[Experimental studies of the correlation of morphologic endothelial cell findings and endothelial pump function] Hagenah M, et al. **Fortschr Ophthalmol** 1989;86(5):443–7 (Eng. Abstr.) (Ger)

[Cell density of the corneal endothelium following cataract surgery] Reinhard T, et al. **Klin Monatsbl Augenheilkd** 1989 Oct;195(4):211–5 (Eng. Abstr.) (Ger)

[Corneal endothelial damage in congenital and juvenile glaucoma] Wenzel M, et al. **Klin Monatsbl Augenheilkd** 1989 Dec;195(6):344–8 (Eng. Abstr.) (Ger)

PHYSIOLOGY

Effect of hypotonic media on the membrane voltage of cultured bovine corneal endothelial cells. Coroneo MT, et al. **Curr Eye Res** 1989 Sep;8(9):891–9

Adsorptive and fluid phase endocytosis by cultured rabbit corneal endothelium. Raphael B, et al. **Curr Eye Res** 1990 Mar;9(3):249–58

Selective inhibition of neutrophil activation by the subendothelial extracellular matrix: possible role in protection of the vessel wall during diapedesis. Matzner Y, et al. **Exp Cell Res** 1990 Aug;189(2):233–40

Properties of single potassium-selective ionic channels from the apical membrane of rabbit corneal endothelium. Rae JL, et al. **Exp Eye Res** 1989 Oct;49(4):591–609

Potassium channel in rabbit corneal endothelium activated by external anions. Rae JL, et al. **J Membr Biol** 1990 Mar; 114(1):29–36

A near-zero membrane potential in transporting corneal endothelial cells of rabbit. Hodson S, et al. **J Physiol (Lond)** 1989 May;412:365–74

PHYSIOPATHOLOGY

The molecular basis of neurotrophic keratitis. Cavanagh HD, et al. **Acta Ophthalmol Suppl (Copenh)** 1989;192:115–34

[A new in vitro test of endothelial viability. Vital staining using Janus green with spectrophotometric analysis of the color extract] Hartmann C, et al. **Ophtalmologie** 1989 Jan-Mar;3(1):16–8 (Eng. Abstr.) (Fre)

RADIATION EFFECTS

Protoporphyrin IX photosensitization of corneal endothelium. Gottsch JD, et al. **Arch Ophthalmol** 1989 Oct; 107(10):1497–500

TRANSPLANTATION

[Experimental study on transplantation of tissue-cultured human corneal endothelium] Lin N. **Chung Hua Yen Ko Tsa Chih** 1989 Nov;25(6):355–6 (Eng. Abstr.) (Chi)

[Protective effect on the graft of bioprotectors of the endothelium in reconstructive surgery of the anterior eye segment] Kasparov AA, et al. **Vestn Oftalmol** 1989 Jul-Aug;105(4):13–7 (Eng. Abstr.) (Rus)

ULTRASTRUCTURE

Human fetal iridocorneal angle: a light and scanning electron microscopic study. McMenamin PG. **Br J Ophthalmol** 1989 Nov;73(11):871–9

Manipulative damage to the endothelium of infant and adult donor corneas. Nartey IN, et al. **Br J Ophthalmol** 1990 May;74(5):261–4

Corneal changes in Tay-Sachs disease. Ghosh M, et al. **Can J Ophthalmol** 1990 Jun;25(4):190–2 (10 ref.)

Corneal endothelial abnormalities in the Royal College of Surgeons rat. Yamaguchi K, et al. **Cornea** 1990 Jul; 9(3):217–22

Filipin-induced deformations in plasma membranes of cultured bovine corneal endothelial cells with incomplete belts of tight junctions. Hirsch M, et al. **Exp Eye Res** 1989 Nov;49(5):717–27

Methane plasma as a protective coating on intraocular lenses: an in vitro study. Badaro RM, et al. **Int Ophthalmol** 1989 Sep;13(5):357–60

Ultrastructural effects of topical betoptic, betagan, and timoptic on the rabbit corneal endothelium. Liu GS, et al. **J Ocul Pharmacol** 1989 Winter;5(4):329–42

[Endothelial effects of radial keratotomy in a non-human primate] Ganem S, et al. **Ophtalmologie** 1989 Jan-Mar; 3(1):13–5 (Eng. Abstr.) (Fre)

ENDOTHELIUM-DERIVED RELAXING FACTOR

The interaction between nitrogen oxides and hemoglobin and endothelium-derived relaxing factor. Kosaka H, et al. **Free Radic Biol Med** 1989;7(6):653–8 (51 ref.)

ANALYSIS

Simultaneous measurement of endothelium-derived relaxing factor by bioassay and guanylate cyclase stimulation. Kondo K, et al. **Br J Pharmacol** 1989 Oct;98(2):630–6

Comparison of spectrophotometric and biological assays for nitric oxide (NO) and endothelium-derived relaxing factor (EDRF): nonspecificity of the diazotization reaction for NO and failure to detect EDRF. Tracey WR, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):922–8

ANTAGONISTS & INHIBITORS

Pressor effect of endothelium-derived relaxing factor inhibition in conscious virgin and gravid rats. Umans JG, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):F293–6

Hypoxic pulmonary vasoconstriction is enhanced by inhibition of the synthesis of an endothelium derived relaxing factor. Archer SL, et al. **Biochem Biophys Res Commun** 1989 Nov 15; 164(3):1198–205

Native and oxidized low-density lipoproteins have different inhibitory effects on endothelium-derived relaxing factor in the rabbit aorta. Jacobs M, et al. **Br J Pharmacol** 1990 May;100(1):21–6

Rapid and reversible inhibition by low density lipoprotein of the endothelium-dependent relaxation to hemostatic substances in porcine coronary arteries. Heat and acid labile factors in low density lipoprotein mediate the inhibition. Tomita T, et al. **Circ Res** 1990 Jan;66(1):18–27

Effect of NG-monomethyl-L-arginine on endothelium-dependent relaxation of human subcutaneous resistance arteries. Woolfson RG, et al. **Clin Sci** 1990 Sep; 79(3):273–8

Pertussis toxin inhibits endothelium-dependent relaxations evoked by fluoride. Flavahan NA, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):121–4

Cyclosporin A inhibits endothelium-dependent, prostanoid-induced relaxation in human subcutaneous resistance vessels. Richards NT, et al. **J Hypertens** 1990 Feb;8(2):159–63

BIOSYNTHESIS

Vasoactive mediators derived from the endothelium. Botting R, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:11–4 (30 ref.)

Biosynthesis of endothelium-derived relaxing factor: a cytosolic enzyme in porcine aortic endothelial cells Ca2+-dependently converts L-arginine into an activator of soluble guanylyl cyclase. Mayer B, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):678–85

N omega-nitro-L-arginine: a potent inhibitor of endothelium-derived relaxing factor formation. Ishii K, et al. **Eur J Pharmacol** 1990 Feb 6;176(2):219–23

Effect of calcium on endothelium-derived relaxing factor formation and cGMP levels in endothelial cells. Schmidt K, et al. **Eur J Pharmacol** 1989 Nov 7;170(3):157–66

Production of an EDRF-like activity in the cytosol of N1E-115 neuroblastoma cells. Gorsky LD, et al. **FASEB J** 1990 Mar;4(5):1494–500

H2O2 and endothelium-dependent cerebral arteriolar dilation. Implications for the identity of endothelium-derived relaxing factor generated by acetylcholine. Wei EP, et al. **Hypertension** 1990 Aug; 16(2):162–9

Similarities in the pharmacological modulation of reactive hyperemia and vasodilation to hydrogen peroxide in rat skeletal muscle arterioles: effects of probes for endothelium-derived mediators. Wolin MS, et al. **J Pharmacol Exp Ther** 1990 May;253(2):508–12

Inhibitory effects of L-NG-nitro-arginine on the synthesis of EDRF and the cerebroarterial response to vasodilator nerve stimulation. Toda N, et al. **Life Sci** 1990;47(4):345–51

Hormone-induced biosynthesis of endothelium-derived relaxing factor/nitric oxide-like material in N1E-115 neuroblastoma cells requires calcium and calmodulin. Förstermann U, et al. **Mol Pharmacol** 1990 Jul;38(1):7–13

The cytosol of N1E-115 neuroblastoma cells synthesizes an EDRF-like substance that relaxes rabbit aorta. Förstermann U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;340(6 Pt 2):771–4

[Prostacyclin, EDRF and arteriosclerosis] Gryglewski R, et al. **Przegl Lek** 1989;46(7):543–6 (Pol)

BLOOD

Is nitric oxide the only endothelium-derived relaxing factor in canine femoral veins? Miller VM, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1910–6

Detection of endothelial-derived relaxing factor in human plasma in the basal state and following ischemia using electron paramagnetic resonance spectrometry. Wennmalm A, et al. **Anal Biochem** 1990 Jun;187(2):359–63

METABOLISM

Increases in flow reduce the release of endothelium-derived relaxing factor in the aorta of normotensive and spontaneously hypertensive rats. Hoeffner U, et al. **Am J Hypertens** 1989 Oct;2(10):762–7

Imbalance of endothelium-derived relaxing and contracting factors. A new concept in hypertension? Lüscher TF. **Am J Hypertens** 1990 Apr;3(4):317–30 (146 ref.)

In vitro release of endothelium-derived relaxing factor by acetylcholine is increased during the guinea pig pregnancy. Weiner C, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1599–605

Release of superoxide-dependent relaxing factor(s) from endothelial cells. Hong KW, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1340–6

Glomerular endothelial cells respond to calcium-mobilizing agonists with release of EDRF. Marsden PA, et al. **Am J Physiol** 1990 May;258(5 Pt 2):F1295–303

Release of EDRF from canine renal artery by leukotriene D4. Pawloski JR, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1449–56

Biosynthesis and metabolism of endothelium-derived nitric oxide. Ignarro LJ. **Annu Rev Pharmacol Toxicol** 1990; 30:535–60 (102 ref.)

The endogenous nitrovasodilator produced by the vascular endothelium. Dusting GJ, et al. **Aust N Z J Med** 1989 Oct;19(5):493–8 (39 ref.)

Receptor-mediated generation of an EDRF-like intermediate in a neuronal cell line detected by spin trapping techniques. Arroyo CM, et al. **Biochem Biophys Res Commun** 1990 Aug 16;170(3):1177–83

Regional distribution of EDRF/NO-synthesizing enzyme(s) in rat brain. Förstermann U, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):727–32

Vascular smooth muscle-derived relaxing factor (MDRF) and its close similarity to nitric oxide. Wood KS, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):80–8

Chronic exposure of cultured endothelial cells to eicosapentaenoic acid potentiates the release of endothelium-derived relaxing factor(s). Boulanger C, et al. **Br J Pharmacol** 1990 Jan;99(1):176–80

A comparison of basal and agonist-stimulated release of endothelium-derived relaxing factor from different arteries. Christie MI, et al. **Br J Pharmacol** 1989 Oct;98(2):397–406

Effects of basal and acetylcholine-induced release of endothelium-derived relaxing factor on contraction to alpha-adrenoceptor agonists in a rabbit artery and corresponding veins. McGrath JC, et al. **Br J Pharmacol** 1990 Jan;99(1):77–86

Action of noradrenaline on isolated proximal and distal coronary arteries of rat: selective release of endothelium-derived relaxing factor in proximal arteries. Nyborg NC. **Br J Pharmacol** 1990 Jul;100(3):552–6

Release of endothelium-derived relaxing factor from pig cultured aortic endothelial cells, as assessed by changes in endothelial cell cyclic GMP content, is inhibited by a phorbol ester. Smith JA, et al. **Br J Pharmacol** 1990 Mar; 99(3):565–71

Antagonistic modulatory roles of magnesium and calcium on release of endothelium-derived relaxing factor and smooth muscle tone. Gold ME, et al. **Circ Res** 1990 Feb; 66(2):355–66

Endothelium-derived relaxing factor released from cultured cells: differentiation from nitric oxide. Dusting GJ, et al. **Clin Exp Pharmacol Physiol** 1988 Feb;15(2):83–92

The generation of L-arginine in endothelial cells is linked to the release of endothelium-derived relaxing factor. Mitchell JA, et al. **Eur J Pharmacol** 1990 Feb 6; 176(2):253–4

EDRF release is a common pathway in the activation of guanylate cyclase by receptor agonists and calcium ionophores. Pou WS, et al. **Eur J Pharmacol** 1990 Jul 3; 182(2):393–4

Simultaneous release of endothelium-derived relaxing and contracting factors induced by noradrenaline in normotensive rats. Nigro D, et al. **Gen Pharmacol** 1990; 21(4):443–6

Release of endothelium-derived relaxing factors from canine cardiac valves. Ku DD, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):212–8

Basal and stimulated formation and release of L-arginine-derived nitrogen oxides from cultured endothelial cells. Schmidt HH, et al. **J Pharmacol Exp Ther** 1990 Aug;254(2):591–7

Coronary vascular responsiveness to 5-hydroxytryptamine before and after infusion of hyperkalemic crystalloid cardioplegic solution in the rat heart. Possible evidence of endothelial damage. Saldanha C, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 1):783–7

EDRF: a binding controversy. **Lancet** 1990 Jun 9; 335(8702):1376 (18 ref.)

Endothelium-derived relaxing factor: presence in pulmonary and systemic arteries of the newborn guinea pig. Davidson D, et al. **Pediatr Res** 1990 Feb;27(2):128–32

Calcium influx into endothelial cells and formation of endothelium-derived relaxing factor is controlled by the membrane potential. Lückhoff A, et al. **Pflugers Arch** 1990 May;416(3):305–11

Cellular mechanisms of nitrate action. Fung HL, et al. **Z Kardiol** 1989;78 Suppl 2:14–7; discussion 64–7

Release of the free nitric oxide radical (NO) and EDRF from endothelial cells. Kelm M, et al. **Z Kardiol** 1989;78 Suppl 6:70–4

PHARMACOLOGY

Variation in the potency of epithelial relaxant factor to modulate airway smooth muscle responsiveness in the function of different cholinergic agonists. Jackowski J, et al. **Acta Physiol Hung** 1990;75 Suppl:151–2

Characterization of the cardiovascular actions of endothelin in vivo: comparisons with neuropeptide Y and angiotensin II. Pernow J. **Acta Physiol Scand** 1989 Nov;137(3):421–6

Neuromuscular actions of endothelin on smooth, cardiac and skeletal muscle from guinea-pig, rat and rabbit. Wiklund NP, et al. **Acta Physiol Scand** 1989 Nov;137(3):399–407

Inhibition of platelet-derived mitogen release by nitric oxide (EDRF). Barrett ML, et al. **Agents Actions** 1989 Jun; 27(3-4):488–91

Release of norepinephrine from adrenergic nerve endings of blood vessels is modulated by endothelium-derived relaxing factor. Greenberg SS, et al. **Am J Hypertens** 1990 Mar;3(3):211–8

Effects of a stabilized endothelium-derived relaxing factor on the coronary vasculature in awake dogs. Chu A, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1895–9

Endothelial impairment inhibits prostaglandin and EDRF-mediated arteriolar dilation in vivo. Koller A, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1966–70

Microcirculatory responses to exogenous endothelial cell-derived relaxing factor. Rivers RJ, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H606–9

Effects of endothelium-derived relaxing factor and nitric oxide on rat mesangial cells. Shultz PJ, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):F162–7

Inhibition of intravascular platelet aggregation by endothelium-derived relaxing factor: reversal by red blood cells. Houston DS, et al. **Blood** 1990 Sep 1;76(5):953–8

EDRF-mediated dilatation in the rat isolated perfused kidney: a microangiographic study. Burton GA, et al. **Br J Pharmacol** 1989 Dec;98(4):1207–12

Cyclic GMP release and vasodilatation induced by EDRF and atrial natriuretic factor in the isolated perfused kidney of the rat. Burton GA, et al. **Br J Pharmacol** 1990 Feb; 99(2):364–8

A comparison of haemoglobin and erythrocytes as inhibitors of smooth muscle relaxation by the NANC transmitter in the BRP and rat anococcygeus and by EDRF in the rabbit aortic strip. Gillespie JS, et al. **Br J Pharmacol** 1989 Oct; 98(2):445–50

Endothelium-dependent relaxation and cyclic GMP accumulation in rabbit pulmonary artery are selectively impaired by moderate hypoxia. Johns RA, et al. **Circ Res** 1989 Dec;65(6):1508–15

EDRF increases cyclic GMP in platelets during passage through the coronary vascular bed. Pohl U, et al. **Circ Res** 1989 Dec;65(6):1798–803

Effect of endothelium-derived relaxing factor on the gastric lesion induced by HCl in rats. Kitagawa H, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):1133–7

Effects of endothelium on basal tone and agonist and O2 sensitivity in porcine coronary artery. Ngai JH, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1053–9

Endothelium-derived relaxing factor inhibits the formation of inositol trisphosphate by rabbit aorta. Lang D, et al. **J Physiol (Lond)** 1989 Apr;411:45–52

Vasorelaxant properties of the endothelium-derived relaxing factor more closely resemble S-nitrosocysteine than nitric oxide. Myers PR, et al. **Nature** 1990 May 10; 345(6271):161–3

Comparison of relaxation responses of vascular and non-vascular smooth muscle to endothelium-derived relaxing factor (EDRF), acidified sodium nitrite (NO) and sodium nitroprusside. Cocks TM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Apr; 341(4):364–72

[Vasodilator agents and the vascular endothelium] Berdeaux A. **Ann Cardiol Angeiol (Paris)** 1989 Dec 30;38(10):611–5 (Eng. Abstr.) (Fre)

PHYSIOLOGY

The 1989 Ulf von Euler lecture. Studies on endothelium-dependent vasodilation and the endothelium-derived relaxing factor. Furchgott RF. **Acta Physiol Scand** 1990 Jun;139(2):257–70 (66 ref.)

Different involvement of endothelium-derived relaxing factor and prostacyclin in vasodilator response to bradykinin in isolated dog blood vessels. Okamura T, et al. **Adv Exp Med Biol** 1989;247A:429–34

Endothelium-derived relaxing and contracting factors. Vanhoutte PM. **Adv Nephrol** 1990;19:3–16 (76 ref.)

EDRF from rat intestine and skeletal muscle venules causes dilation of arterioles. Falcone JC, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1515–23

Myogenic autoregulation of flow may be inversely related to endothelium-derived relaxing factor activity. Griffith TM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1171–80

Similar responsiveness of smooth muscle of the canine basilar artery to EDRF and nitric oxide. Katusic ZS, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1235–9

Endothelium-derived relaxing factor influences renal vascular resistance. Radermacher J, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):F9–17

Possible modulation of release of atrial natriuretic factor by endothelium-derived relaxing factor. Sanchez-Ferrer CF, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H982–6

Role of endothelium-derived relaxing factor in regulation of renal hemodynamic responses. Tolins JP, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H655–62

Endothelium-derived relaxing factor is not responsible for inhibition of hypoxic pulmonary vasoconstriction by inhalational anesthetics. Marshall C, et al. **Anesthesiology** 1990 Sep;73(3):441–8

Mechanisms of abnormal endothelium-dependent vascular relaxation in atherosclerosis: implications for altered autocrine and paracrine functions of EDRF. Guerra R Jr, et al. **Blood Vessels** 1989;26(5):300–14

Beta-migrating very low density lipoprotein attenuates endothelium-dependent relaxation in rabbit atherosclerotic aortas. Hayashi T, et al. **Blood Vessels** 1989;26(5):290–9

Effects of antihypertensive agents on endothelium-dependent and endothelium-independent relaxations. Shultz PJ, et al. **Br J Clin Pharmacol** 1989;28 Suppl 2:151S–157S

Nitric oxide synthesised from L-arginine mediates endothelium dependent dilatation in human veins in vivo. Vallance P, et al. **Cardiovasc Res** 1989 Dec;23(12):1053–7

Interaction between endothelin-1 and endothelium-derived relaxing factor in human arteries and veins. Lüscher TF, et al. **Circ Res** 1990 Apr;66(4):1088–94

Role of endothelium-derived relaxing factor and prostagiandins in responses of coronary arteries to thromboxane in vivo. Szwajkun K, et al. **Circ Res** 1990 Jun;66(6):1729–37

Hyperlipidemic arterial dysfunction [comment] Henry PD. **Circulation** 1990 Feb;81(2):697–9 Comment on: Circulation 1990 Feb;81(2):482–90. Comment on: Circulation 1990 Feb;81(2):491–7.

Endothelium–derived relaxing factor and protection against contractions induced by histamine and serotonin in the human internal mammary artery and in the saphenous vein. Yang ZH, et al. **Circulation** 1989 Oct;80(4):1041–8

Pulmonary endothelium–derived relaxing factor is impaired in hypoxia. Warren JB, et al. **Clin Sci** 1989 Dec;77(6):671–6

Endothelium–derived relaxing factor (EDRF): a defence mechanism against platelet aggregation and vasospasm in human coronary arteries. Förstermann U, et al. **Eur Heart J** 1989 Nov;10 Suppl F:36–43

Endothelium–derived relaxing and contracting factors: potential role in coronary artery disease. Lüscher TF. **Eur Heart J** 1989 Sep;10(9):847–57 (91 ref.)

The vasodilator role of endogenous nitric oxide in the rat gastric microcirculation. Pique JM, et al. **Eur J Pharmacol** 1989 Dec 19;174(2–3):293–6

Acetylcholine and adenosine diphosphate cause endothelium–dependent relaxation of isolated human pulmonary arteries. Dinh Xuan AT, et al. **Eur Respir J** 1990 Jun;3(6):633–8

EDRF and the regulation of vascular tone. Griffith TM, et al. **Int J Microcirc Clin Exp** 1989 Nov;8(4):383–96 (55 ref.)

Inhibition of collagen– and ADP–induced platelet aggregation by substance P in vivo: involvement of endothelium–derived relaxing factor. Humphries RG, et al. **J Cardiovasc Pharmacol** 1990 Aug;16(2):292–7

Endothelium–derived vasoactive substances: potential role in hypertension, atherosclerosis, and vascular occlusion. Lüscher TF, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 6:S63–9 (42 ref.)

Endothelium–dependent vascular smooth muscle control. Husain M, et al. **J Clin Anesth** 1988;1(2):135–45 (97 ref.)

A regulatory role for large vessels in organ circulation. Endothelial cells of the main renal artery modulate intrarenal hemodynamics in the rat. Kon V, et al. **J Clin Invest** 1990 Jun;85(6):1728–33

Non–prostanoid endothelium–derived vasoactive factors. Dinh Xuan AT, et al. **J Int Med Res** 1989 Jul–Aug;17(4):305–15 (128 ref.)

Endothelium dependent relaxation of human corpus cavernosum by bradykinin. Kimoto Y, et al. **J Urol** 1990 Oct;144(4):1015–7

Endothelium–dependent vasorelaxations in response to aggregating platelets are impaired in reversed vein grafts. Komori K, et al. **J Vasc Surg** 1990 Aug;12(2):139–47

Neutrophil–derived relaxing factor relaxes vascular smooth muscle through a cGMP–mediated mechanism. Lee DK, et al. **Life Sci** 1990;46(21):1531–8

Endothelium–derived relaxing factor (nitric oxide) has protective actions in the stomach. MacNaughton WK, et al. **Life Sci** 1989;45(20):1869–76

Endothelium–derived vasoactive factors and regulation of vascular tone in human blood vessels. Lüscher TF. **Lung** 1990;168 Suppl:27–34 (25 ref.)

Endothelium–derived relaxing factors and the human pulmonary circulation. McCormack D. **Lung** 1990;168 Suppl:35–42 (16 ref.)

Heterogeneity in epithelium–dependent responses. Stuart–Smith K. **Lung** 1990;168 Suppl:43–8 (6 ref.)

Gastric mucosal protective action of endothelium–derived relaxing factor. Kitagawa H, et al. **Scand J Gastroenterol Suppl** 1989;162:131–3

Calcium ionophore and acetylcholine dilate arterioles on the mouse brain by different mechanisms. Rosenblum WI, et al. **Stroke** 1989 Oct;20(10):1391–5

Endothelium–derived relaxing factor(s) and calcium antagonists. Auch–Schwelk W, et al. **Z Kardiol** 1989;78 Suppl 6:120–3

Endothelium–derived relaxing factor in human coronary artery. Bossaller C, et al. **Z Kardiol** 1989;78 Suppl 6:59–63 (49 ref.)

Mechanisms controlling the production of endothelial autacoids. Busse R, et al. **Z Kardiol** 1989;78 Suppl 6:64–9 (33 ref.)

Formation and functional importance of endothelium–derived relaxing factor (EDRF) and prostaglandins in the microcirculation. Förstermann U, et al. **Z Kardiol** 1989;78 Suppl 6:85–91

The influence of endothelium on glyceryl trinitrate induced relaxation in corresponding arteries and veins of the rabbit. Rösen R, et al. **Z Kardiol** 1989;78 Suppl 2:29–32; discussion 64–7

[Vasomotor tonus and non–prostanoid endothelium–derived vasoactive factors] Dinh Xuan AT. **Arch Mal Coeur** 1990 Feb;83(2):261–5 (30 ref.) (Eng. Abstr.) (Fre)

[Relaxing factors of endothelial origin and coronary spasm] Vanhoutte PM, et al. **Arch Mal Coeur** 1990 Mar;83 Spec No 2:11–21 (94 ref.) (Eng. Abstr.) (Fre)

[Non–prostanoid endothelium–derived factors. Physiologic roles and possible implications in cardiovascular pathology] Dinh Xuan AT, et al. **Therapie** 1990 Mar–Apr;45(2):111–8 (80 ref.) (Eng. Abstr.) (Fre)

[Significance of endothelium–derived relaxing factor for the pathophysiologic understanding of coronary heart disease] Bassenge E. **Med Klin** 1990 Feb;85 Suppl 1:3–7 (17 ref.) (Ger)

[Atherosclerosis and endothelium–derived relaxing factor] Bossaller C, et al. **Med Klin** 1990 Feb;85 Suppl 1:13–8 (43 ref.) (Ger)

[Inhibition of platelet aggregation by endothelium–derived relaxing factor–like agents] Gerzer R, et al. **Med Klin** 1990 Feb;85 Suppl 1:18–22 (23 ref.) (Eng. Abstr.) (Ger)

[Endothelium–dependent mod:lation of circulation and thrombocyte function by endothelium–derived relaxing factor, an "endogenous nitro–vasodilator"] Pohl U. **Med Klin** 1990 Feb;85 Suppl 1:10–3 (16 ref.) (Ger)

[Inhibition of thrombocyte aggregation and adhesion by endothelium–derived relaxant factor (EDRF) and their pathophysiologic significance] Bassenge E, et al. **Z Kardiol** 1989;78 Suppl 6:54–8 (Eng. Abstr.) (Ger)

[Possible involvement of vascular endothelium–derived relaxing factor induced by platelet–activating factor (PAF) on human pulmonary artery after contraction in vitro] Ono S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Aug;27(8):910–6 (Eng. Abstr.) (Jpn)

[Endothelium–derived relaxing factor (EDRF)] Toda N, et al. **Nippon Yakurigaku Zasshi** 1990 Jun;95(6):295–308 (103 ref.) (Eng. Abstr.) (Jpn)

SECRETION

Endothelial cells metabolize NG–monomethyl–L–arginine to L–citrulline and subsequently to L–arginine. Hecker M, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):1037–43

Self suppression of phosphoinositide turnover and contraction by stimulating release of endogenous endothelium derived relaxing factor in vascular action of histamine. Nishimoto T, et al. **Cardiovasc Res** 1990 May;24(5):364–72

Indirect evidence for release of endothelium–derived relaxing factor in human forearm circulation in vivo. Blunted response in essential hypertension. Linder L, et al. **Circulation** 1990 Jun;81(6):1762–7

Release of prostacyclin and EDRF from endothelial cells is differentially controlled by extra– and intracellular calcium. Lückhoff A. **Eicosanoids** 1988;1(1):5–11 (34 ref.)

Phorbol ester–induced release of endothelium–derived relaxing factor. Sakata K, et al. **Eur J Pharmacol** 1990 Apr 10;179(1–2):207–10

Bradykinin and inositol 1,4,5–trisphosphate–stimulated calcium release from intracellular stores in cultured bovine endothelial cells. Freay A, et al. **Pflugers Arch** 1989 Aug;414(4):377–84

THERAPEUTIC USE

[Pharmacology of spasm of intracranial arteries in aneurysm rupture. The latest views on the therapeutic possibilities] Ryba M, et al. **Neurol Neurochir Pol** 1989 Jan;23(1):58–63 (30 ref.) (Pol)

ENDOTHELIUM, LYMPHATIC see under **ENDOTHELIUM**

ENDOTHELIUM, VASCULAR

Vasoconstrictor effect of endothelin on the canine coronary artery: is a novel endogenous peptide involved in regulating myocardial blood flow and coronary spasm? Igarashi Y, et al. **Am Heart J** 1989 Oct;118(4):674–8

Intracoronary endothelin induces myocardial ischemia by small vessel constriction in the dog. Larkin SW, et al. **Am J Cardiol** 1989 Oct 15;64(14):956–8

Endothelin does not affect intracellular calcium ion concentration in the platelets of rats. Murakawa K, et al. **Am J Hypertens** 1990 Apr;3(4):307–9

Endothelin stimulates phosphatidylinositol 4,5–bisphosphate and phosphatidylcholine hydrolysis in Rat–1 cells. MacNulty EE, et al. **Biochem Soc Trans** 1990 Jun;18(3):482–3

A new method for mechanically denuding the endothelium of small (50–150 microns) arteries with a human hair. Osol G, et al. **Blood Vessels** 1989;26(5):320–4

Effects of X–ray contrast media and radiation on human vascular endothelial cells in vitro. Morgan DM, et al. **Cardiovasc Intervent Radiol** 1989 May–Jun;12(3):154–60

Endothelium and myocardial protecting actions of taprostene, a stable prostacyclin analogue, after acute myocardial ischemia and reperfusion in cats. Johnson G 3d, et al. **Circ Res** 1990 May;66(5):1362–70

Effects of endothelin on coronary flow, mechanical performance, oxygen uptake, and formation of purines and on outflow of prostacyclin in the isolated rabbit heart. Karwatowska–Prokopczuk E, et al. **Circ Res** 1990 Jan;66(1):46–54

Interaction of endothelin and Ca++ entry blockers on renal circulation in anesthetized rabbits. Seino M, et al. **Clin Exp Hypertens [A]** 1990;12(2):205–13

Endothelin stimulates inositol phosphate accumulation in rat right and left atria: a comparison with noradrenaline. Kuraja IJ, et al. **Clin Exp Pharmacol Physiol** 1990 Apr;17(4):275–80

Mechanisms of the effects of endothelin on responses to noradrenaline and sympathetic nerve stimulation. Wong–Dusting HK, et al. **Clin Exp Pharmacol Physiol** 1990 Apr;17(4):269–73

Mechanisms involved in the stimulation of aldosterone production by angiotensin II, vasopressin and endothelin. Woodcock EA, et al. **Clin Exp Pharmacol Physiol** 1990 Apr;17(4):263–7

Postural change and volume expansion affect plasma endothelin levels [letter] Shichiri M, et al. **JAMA** 1990 Feb 2;263(5):661

Raised endothelial cell stimulating angiogenic factor in diabetic retinopathy [letter; comment] Taylor CM, et al. **Lancet** 1989 Dec 2;2(8675):1329 Comment on: Lancet 1989 Oct 28;2(8670):1050.

Effects of endothelin on renal hemodynamics and excretory functions in anesthetized dogs. Tsuchiya K, et al. **Life Sci** 1990;46(1):59–65

Endothelin produces systemic vasodilation independent of the state of consciousness. Lippton HL, et al. **Peptides** 1989 Sep–Oct;10(5):939–43

[Vasomotor tonus and non–prostanoid endothelium–derived vasoactive factors] Dinh Xuan AT. **Arch Mal Coeur** 1990 Feb;83(2):261–5 (30 ref.) (Eng. Abstr.) (Fre)

[Adherence of monocytes to the aortic endothelium. Effect of the intraluminal pressure] Tedgui A, et al. **Arch Mal Coeur** 1989 Jul;82(7):1191–4 (Eng. Abstr.) (Fre)

ANALYSIS

Plasma immunoreactive endothelin in essential hypertension. Kohno M, et al. **Am J Med** 1990 Jun;88(6):614–8

Immunocytochemical identification of beta–protein precursor in cultured vascular cells. Yamamoto K, et al. **Artery** 1990;17(4):213–32

Properties of GMP–140, an inducible granule membrane protein of platelets and endothelium. McEver RP. **Blood Cells** 1990;16(1):73–80; discussion 80–3 (25 ref.)

Endothelium–derived constricting factor(s): the last novelty—endothelin. Karwatowska–Prokopczuk E, et al. **Clin Physiol** 1990 Mar;10(2):113–21 (46 ref.)

Insulin–like growth factor–binding proteins from vascular endothelial cells: purification, characterization, and intrinsic biological activities. Bar RS, et al. **Endocrinology** 1989 Oct;125(4):1910–20

Nonmuscle and smooth muscle myosin isoforms in bovine endothelial cells. Borrione AC, et al. **Exp Cell Res** 1990 Sep;190(1):1–10

SRTX–d, a new native peptide of the endothelin/sarafotoxin family. Bdolah A, et al. **FEBS Lett** 1989 Oct 9;256(1–2):1–3

Differential localization of von Willebrand factor, fibronectin and 13–HODE in human endothelial cell cultures. Aznar–Salatti J, et al. **Histochemistry** 1990;93(5):507–11

Localization of anticoagulantly active heparan sulfate proteoglycans in vascular endothelium: antithrombin binding on cultured endothelial cells and perfused rat aorta. de Agostini AI, et al. **J Cell Biol** 1990 Sep;111(3):1293–304

A human endothelial cell membrane protein that binds Staphylococcus aureus in vitro. Tompkins DC, et al. **J Clin Invest** 1990 Apr;85(4):1248–54

A sandwich–type enzyme immunoassay to detect immunoreactive big–endothelin–1 in plasma. Suzuki N, et al. **J Immunol Methods** 1990 Mar 9;127(2):165–70

Phospholipid molecular species in human umbilical artery and vein endothelial cells. Takamura H, et al. **J Lipid Res** 1990 Apr;31(4):709–17

Sulfated glucuronyl paragloboside in rat brain microvessels. Miyatani N, et al. **J Neurochem** 1990 Aug;55(2):577–82

PAL–E, monoclonal antibody with immunoreactivity for endothelium specific to brain tumours [letter] Leenstra S, et al. **Lancet** 1990 Mar 17;335(8690):671

Factor VIII von Willebrand protein in haemolytic uraemic syndrome and systemic vasculitides [see comments] Rose PE, et al. **Lancet** 1990 Mar 3;335(8688):500–2 Comment in: Lancet 1990 May 5;335(8697):1095.

Nucleotide sequence of endothelin cDNA from bovine endothelial cells. Elahourbagy NA, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4273

Immunohistochemical localization of endothelin in human vascular endothelial cells. Hiroe M, et al. **Peptides** 1989 Nov–Dec;10(6):1281–2

Identification of immunoreactive substance P in human and other mammalian endothelial cells. Linnik MD, et al. **Peptides** 1989 Sep–Oct;10(5):957–62

A major endothelial plasmalemmal sialoglycoprotein, gp60, is immunologically related to glycophorin. Schnitzer JE, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6843–7

Immunoelectrophoretic analysis of membrane glycoproteins in cultured human endothelial cells. Børsum T. **Thromb Haemost** 1990 Apr 12;63(2):303–11

[Relationship between collagen type IV fraction in the capillary wall and its diameter observed in normal skin and in chronic venous insufficiency] van den Broek MJ, et al. **Phlebologie** 1990 Jan–Mar;43(1):31–3 (Fre)

[Identification and characteristics of the beta–adrenergic receptors in the membranes of cultured endothelial cells of the human pulmonary artery] Grigorian Glu, et al. **Probl Endokrinol (Mosk)** 1989 Jul–Aug;35(4):37–40 (Eng. Abstr.) (Rus)

ANATOMY & HISTOLOGY

Measurements from light and polarised light microscopy of human coronary arteries fixed at distending pressure. Canham PB, et al. **Cardiovasc Res** 1989 Nov;23(11):973–82

The blood–brain barrier. Gregoire N. **J Neuroradiol** 1989;16(3):238–50 (15 ref.) (Eng, Fre)

Variability of geometry, hemodynamics and intimal response of human arteries. Friedman MH, et al. **Monogr Atheroscler** 1990;15:109–16 (9 ref.)

[Vascular endothelium (review). I. General morphology. 2B: phylogenesis of the vascular endothelium] Kuprijanov VV. **Gegenbaurs Morphol Jahrb** 1990;136(2):201–17 (153 ref.) (Eng. Abstr.) (Ger)

[Establishment of the necessity for a review of the vascular endothelium: an introduction] Kuprijanov VV, et al. **Gegenbaurs Morphol Jahrb** 1989;135(6):881–5 (11 ref.) (Eng. Abstr.) (Ger)

[Structural aspects of pulmonary gas exchange. II. Alveolar epithelium. Endothelium of capillaries of the alveolar wall] Helewski K, et al. **Pneumonol Pol** 1989 Apr;57(4):253–9 (40 ref.) (Pol)

CYTOLOGY

Inhibition of neutrophil adherence to endothelial cells by 3-deazaadenosine. Jurgensen CH, et al. **Agents Actions** 1989 Jun;27(3–4):398–400

Modification by some antagonists of the shape changes of venous endothelial cells in response to inflammatory agents in vitro. Northover AM. **Agents Actions** 1990 Mar; 29(3–4):184–8

Enhancement of sickle erythrocyte adherence to endothelium by autologous platelets. Antonucci R, et al. **Am J Hematol** 1990 May;34(1):44–8

Influence of the angiotensin system on endothelial and smooth muscle cell migration. Bell L, et al. **Am J Pathol** 1990 Jul;137(1):7–12

Ceruloplasmin reduces the adhesion and scavenges superoxide during the interaction of activated polymorphonuclear leukocytes with endothelial cells. Broadley C, et al. **Am J Pathol** 1989 Oct;135(4):647–55

Bartonella bacilliformis stimulates endothelial cells in vitro and is angiogenic in vivo. Garcia FU, et al. **Am J Pathol** 1990 May;136(5):1125–35

Inhalation of chrysotile asbestos induces rapid cellular proliferation in small pulmonary vessels of mice and rats. McGavran PD, et al. **Am J Pathol** 1990 Mar;136(3):695–705

Atherogenic concentrations of low-density lipoprotein enhance endothelial cell generation of epoxyeicosatrienoic acid products. Pritchard KA Jr, et al. **Am J Pathol** 1990 Jun;136(6):1383–91

Cytokine-activated human endothelial cells synthesize and secrete a monocyte chemoattractant, MCP-1/JE. Rollins BJ, et al. **Am J Pathol** 1990 Jun;136(6):1229–33

Expression of the high molecular weight melanoma-associated antigen by pericytes during angiogenesis in tumors and in healing wounds. Schlingemann RO, et al. **Am J Pathol** 1990 Jun; 136(6):1393–405

Mechanisms leading to adenosine-stimulated proliferation of microvascular endothelial cells. Meininger CJ, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):H198–206

Enhancement of tumor necrosis factor-induced endothelial cell injury by cycloheximide. Nolop KB, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):L123–9

Permeability of neutral vs. anionic dextrans in cultured brain microvascular endothelium. Sahagun G, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H162–6

Isolation and characterization of equine microvascular endothelial cells in vitro. Bochsler PN, et al. **Am J Vet Res** 1989 Oct;50(10):1800–5

Influence of pericytes on capillary endothelial cell growth. Antonelli-Orlidge A, et al. **Am Rev Respir Dis** 1989 Oct; 140(4):1129–31 (21 ref.)

Regulation of endothelial cell growth, architecture, and matrix synthesis by TGF-beta. Roberts AB, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1126–8 (32 ref.)

Studies of bronchoalveolar lavage cells and fluids in pulmonary sarcoidosis. II. Enhanced capacity of bronchoalveolar lavage fluids from patients with pulmonary sarcoidosis to induce cell movement in vitro. Weber J, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1450–4

Endothelial cell division in metaphyseal capillaries during endochondral bone formation in rats. Hunter WL, et al. **Anat Rec** 1990 Jul;227(3):351–8

Isolation and propagation of endothelial cells derived from rheumatoid synovial microvasculature. Jackson CJ, et al. **Ann Rheum Dis** 1989 Sep;48(9):733–6

Endothelial cell thromboxane production and its inhibition by a calcium-channel blocker. Ramadan FM, et al. **Ann Thorac Surg** 1990 Jun;49(6):916–9

Cyclosporine inhibits basic fibroblast growth factor–driven proliferation of human endothelial cells and keratinocytes. Sharpe RJ, et al. **Arch Dermatol** 1989 Oct;125(10):1359–62

Transendothelial cell diapedesis of neutrophils in inflamed human skin. Schubert C, et al. **Arch Dermatol Res** 1989; 281(7):475–81

Bovine retinal pigment epithelium promotes proliferation of choroidal endothelium in vitro. Morse LS, et al. **Arch Ophthalmol** 1989 Nov;107(11):1659–63

Role of dying endothelial cells in transendothelial macromolecular transport. Lin SJ, et al. **Arterioscler Oxford** 1990 Sep–Oct;10(5):703–9

Increase in endothelial cell density before artery enlargement in flow-loaded canine carotid artery. Masuda H, et al. **Arterioscler Oxford** 1989 Nov–Dec;9(6):812–23

Proliferation of smooth muscle cells at sites distant from vascular injury. Reidy MA. **Arterioscler Oxford** 1990 Mar–Apr; 10(2):298–305

Beta-very low density lipoprotein pretreatment of endothelial monolayers increases monocyte adhesion. Territo MC, et al. **Arterioscler Oxford** 1989 Nov–Dec; 9(6):824–8

Vascular endothelial cell migration in vitro roles of cyclic nucleotides, calcium ion and cytoskeletal system. Naito M, et al. **Artery** 1989;17(1):21–31

Shear stress affects expression of major histocompatibility complex antigens on human endothelial cells. Martin-Mondiere CF, et al. **ASAIO Trans** 1989 Jul–Sep; 35(3):288–90

Dietary fish oil added to a hyperlipidemic diet for swine results in reduction in the excessive number of monocytes attached to arterial endothelium. Kim DN, et al. **Atherosclerosis** 1990 Apr;81(3):209–16

Apoptosis of vascular endothelial cells by fibroblast growth factor deprivation [published erratum appears in Biochem Biophys Res Commun 1990 Jun 29;169(3):1248] Araki S, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1194–200

Isolation of immediate-early differentiation mRNAs by enzymatic amplification of subtracted cDNA from human endothelial cells. Hla T, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):637–43

Leukotriene B4 induced hyperadhesiveness of endothelial cells for neutrophils. Palmblad J, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):848–51

Thrombospondin gene expression by endothelial cells in culture is modulated by cell proliferation, cell shape and the substratum. Canfield AE, et al. **Biochem J** 1990 May 15;268(1):225–30

Thrombin causes increased monocytic-cell adhesion to endothelial cells through a protein kinase C-dependent pathway. DiCorleto PE, et al. **Biochem J** 1989 Nov 15; 264(1):71–7

Cytotoxicity of glucose oxidase conjugated with antibodies to target cells: killing efficiency depends on the conjugate internalization. Muzykantov VR, et al. **Biochim Biophys Acta** 1990 Jun 12;1053(1):27–31

Behavior of confluent endothelial cells after irradiation. Modulation of wound repair by heparin and acidic fibroblast growth factor. Klein-Soyer C, et al. **Biol Cell** 1990;68(3):231–8

The enhanced attachment and growth of endothelial cells on anhydrous ammonia gaseous plasma modified surfaces of polystyrene and poly(tetrafluoroethylene). Sipehia R. **Biomater Artif Cells Artif Organs** 1990;18(3):437–46

Adhesion and spreading of cultured endothelial cells on modified and unmodified poly (ethylene terephthalate): a morphological study. van Wachem PB, et al. **Biomaterials** 1989 Oct;10(8):532–9

Degranulating mast cells secrete an endoglycosidase that degrades heparan sulfate in subendothelial extracellular matrix. Bashkin P, et al. **Blood** 1990 Jun 1;75(11):2204–12

Tumor necrosis factor-alpha exhibits greater proinflammatory activity than lymphotoxin in vitro. Desch CE, et al. **Blood** 1990 May 15;75(10):2030–4

Thrombin induces c-fos expression in cultured human endothelial cells by a Ca2(+)-dependent mechanism. Lampugnani MG, et al. **Blood** 1990 Sep 15;76(6):1173–80

Effect of venous shear stress on CD18-mediated neutrophil adhesion to cultured endothelium. Lawrence MB, et al. **Blood** 1990 Jan 1;75(1):227–37

Homocysteine, an atherogenic stimulus, reduces protein C activation by arterial and venous endothelial cells. Rodgers GM, et al. **Blood** 1990 Feb 15;75(4):895–901

Gamma-interferon modulates von Willebrand factor release by cultured human endothelial cells. Tannenbaum SH, et al. **Blood** 1990 Jun 1;75(11):2177–84

Desmopressin induces adhesion of normal human erythrocytes to the endothelial surface of a perfused microvascular preparation. Tsai HM, et al. **Blood** 1990 Jan 1;75(1):261–5

Tumor necrosis factor induces the production of urokinase-type plasminogen activator by human endothelial cells. van Hinsbergh VW, et al. **Blood** 1990 May 15;75(10):1991–8

Interaction of the Paf antagonist WEB 2086 and its hetrazepine analogues with human platelets and endothelial cells. Korth R, et al. **Br J Pharmacol** 1989 Oct;98(2):653–61

Attachment of indium-111 labelled endothelial cells to pretreated polytetrafluoroethylene vascular grafts. Budd JS, et al. **Br J Surg** 1989 Dec;76(12):1259–61

Endothelial cells enhance spontaneous metastasis of human lung carcinoma cells in athymic mice. Varki NM, et al. **Cancer Lett** 1990 Jun 15;51(3):251–7

Synthetic peptides of the amino-terminus of fibronectin inhibit endothelial cell growth. Homandberg GA, et al. **Cell Biol Int Rep** 1989 Oct;13(10):891–900

Chloroquine's modulation of endothelial cell activity induced with basic fibroblast growth factor and human serum: effect on mitogenesis, protease production and cell migration. Inyang AL, et al. **Cell Biol Int Rep** 1990 Jan;14(1):35–46

Ultrastructure and formation of diaphragmed fenestrae in cultured endothelial cells of bovine adrenal medulla. Furuya S. **Cell Tissue Res** 1990 Jul;261(1):97–105

Different phenotypes of cultured microvessel endothelial cells obtained from bovine corpus luteum. Study by light microscopy and by scanning electron microscopy (SEM). Spanel-Borowski K, et al. **Cell Tissue Res** 1990 Jul; 261(1):35–47

Influence of extracellular magnesium on capillary endothelial cell proliferation and migration. Banai S, et al. **Circ Res** 1990 Sep;67(3):645–50

Effect of platelet factors on migration of cultured bovine aortic endothelial and smooth muscle cells. Bell L, et al. **Circ Res** 1989 Oct;65(4):1057–65

Chloride efflux in cyclic AMP-induced configurational change of bovine pulmonary artery endothelial cells. Ueda S, et al. **Circ Res** 1990 Apr;66(4):957–67

Seeding of intravascular stents with genetically engineered endothelial cells [see comments] Dichek DA, et al. **Circulation** 1989 Nov;80(5):1347–53 Comment in: Circulation 1989 Nov;80(5):1495–6.

Adhesion of polymorphonuclear cells to human endothelial cells. Adhesion-molecule-dependent, and Fc receptor-mediated adhesion-molecule-independent mechanisms. Leeuwenberg JF, et al. **Clin Exp Immunol** 1990 Sep;81(3):496–500

Effect of leukotriene B4 and prostaglandin E2 on the adhesion of lymphocytes to endothelial cells. To SS, et al. **Clin Exp Immunol** 1990 Jul;81(1):160–5

Effects of endothelial cell removal on alpha-adrenoceptor-mediated responses of aortae of pregnant rats. Jansakul C, et al. **Clin Exp Pharmacol Physiol** 1990 Feb;17(2):147–56

Attachment of tumor cells to endothelial monolayers: detection of surface molecules involved in cell-cell binding. Antonia SJ, et al. **Clin Immunol Immunopathol** 1989 Nov; 53(2 Pt 1):281–96

Human diabetic serum does not stimulate bovine retinal endothelial cell growth in culture. Kinshuck D, et al. **Curr Eye Res** 1989 Jul;8(7):675–80

Serum-induced proliferation of retinal capillary endothelial cells is inhibited in the presence of retinal extract. McIntosh LC, et al. **Curr Eye Res** 1989 Sep;8(9):871–81

Phenotypic comparison between mesothelial and microvascular endothelial cell lineages using conventional endothelial cell markers, cytoskeletal protein markers and in vitro assays of angiogenic potential. Chung-Welch N, et al. **Differentiation** 1989 Oct;42(1):44–53

Endothelial cell growth regulation by PGE1 analog misoprostol and indomethacin. Patrice T, et al. **Dig Dis Sci** 1989 Nov;34(11):1681–5

Effects of shear stress on endothelial cell monolayers on expanded polytetrafluoroethylene (ePTFE) grafts using preclot and fibronectin matrices. Vohra RK, et al. **Eur J Vasc Surg** 1990 Feb;4(1):33–41

Fibroblast growth factor-stimulated growth of porcine aortic endothelial cells depends on hypoxanthine in fetal bovine serum in culture media. Hayashi Y, et al. **Exp Cell Res** 1989 Nov;185(1):217–28

Non-heparin-binding endothelial cell growth factor from bovine omentum. Imaizumi T, et al. **Exp Cell Res** 1990 Apr;187(2):292–8

The effect of heparin on fibronectin and thrombospondin synthesis and mRNA levels in cultured human endothelial cells. Lyons-Giordano B, et al. **Exp Cell Res** 1990 Jan; 186(1):39–46

Effects of epidermal growth factor and transforming growth factor-beta 1 on rat heart endothelial cell anchorage-dependent and -independent growth. Mooradian DL, et al. **Exp Cell Res** 1990 Jan;186(1):122–9

Heparin induces changes in the synthesis of porcine aortic endothelial cell heparan sulfate proteoglycans. Morrison P, et al. **Exp Cell Res** 1989 Oct;184(2):304–15

Quantitation of cytokine-stimulated migration of endothelium and epithelium by a new assay using microcarrier beads. Rosen EM, et al. **Exp Cell Res** 1990 Jan;186(1):22–31

Identification of an endothelial cell growth-inhibitory activity produced by human monocytes. Vilette D, et al. **Exp Cell Res** 1990 Jun;188(2):219–25

Dopa and oxygen inhibit proliferation of retinal pigment epithelial cells, fibroblasts and endothelial cells in vitro. Akeo K, et al. **Exp Eye Res** 1989 Sep;49(3):335–46

Factors affecting the migration and growth of endothelial cells from microvessels of bovine retina. Roberts JM, et al. **Exp Eye Res** 1990 Feb;50(2):165–72

Heterogeneity of recombinant granulocyte-macrophage colony-stimulating factor-mediated enhancement of neutrophil adherence to endothelium. Gamble JR, et al. **Exp Hematol** 1990 Sep;18(8):897–902

Formation of "vessel-like" structures by retinal capillary endothelial cells in culture. Boulton M, et al. **Graefes Arch Clin Exp Ophthalmol** 1990;228(4):377–81

Response of microvascular endothelial cells to biological response modifiers. Hicks C, et al. **Immunol Cell Biol** 1989 Oct;67 (Pt 5):271–7

T cells and neutrophils exhibit differential adhesion to cytokine-stimulated endothelial cells. Thornhill MH, et al. **Immunology** 1990 Feb;69(2):287–92

Microvascular endothelial cell cultures from human omental adipose tissue [letter; comment] Knedler A, et al. **In Vitro Cell Dev Biol** 1989 Oct;25(10):863–4 Comment on: In Vitro Cell Dev Biol 1989 Feb;25(2):109–11.

Isolation and characterization of endothelial cells from bovine cerebral arteries. Machi T, et al. **In Vitro Cell Dev Biol** 1990 Mar;26(3 Pt 1):291–300

Heparin-binding (fibroblast) growth factors type one and two genes are co-expressed in proliferating normal human vascular endothelial and smooth muscle cells in culture. Mansson PE, et al. **In Vitro Cell Dev Biol** 1990 Feb; 26(2):209–12

Morphologic plasticity and periodicity: porcine cerebral microvascular cells in culture. Robinson DH, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):169–80

Opposite effects of monokines (interleukin-1 and tumor necrosis factor) on proliferation and heparin-binding (fibroblast) growth factor binding to human aortic endothelial and smooth muscle cells. Sawada H, et al. **In Vitro Cell Dev Biol** 1990 Feb;26(2):213-6

Spontaneous transformation and immortalization of human endothelial cells. Takahashi K, et al. **In Vitro Cell Dev Biol** 1990 Mar;26(3 Pt 1):265-74

Serial subculture and relative transport of human endothelial cells in serum-free, defined conditions. Weiss TL, et al. **In Vitro Cell Dev Biol** 1990 Aug;26(8):759-68

Isolation of vascular endothelial cells for investigations on hybrid prostheses. Gerlach J, et al. **Int J Artif Organs** 1989 Dec;12(12):805-10

Medroxyprogesterone acetate, an anti-cancer and anti-angiogenic steroid, inhibits the plasminogen activator in bovine endothelial cells. Ashino-Fuse H, et al. **Int J Cancer** 1989 Nov 15;44(5):859-64

A comparison of the sensitivity to photodynamic treatment of endothelial and tumour cells in different proliferative states. West CM, et al. **Int J Radiat Biol** 1990 Jul; 58(1):145-56

In vitro modulation of human endothelial cell growth by Kaposi's sarcoma sera. Ferraro G, et al. **J Acquir Immune Defic Syndr** 1990;3(7):677-82

Endothelial cell subpopulations in vitro: cell volume, cell cycle, and radiosensitivity. Rubin DB, et al. **J Appl Physiol** 1989 Oct;67(4):1585-90

Stimulation of the Na+/H+ exchanger in human endothelial cells activated by granulocyte- and granulocyte-macrophage-colony-stimulating factor. Evidence for a role in proliferation and migration. Bussolino F, et al. **J Biol Chem** 1989 Nov 5;264(31):18284-7

Endothelial cells secrete a factor that promotes fibroblast contraction of hydrated collagen gels. Guidry C, et al. **J Cell Biol** 1990 Feb;110(2):519-28

Endothelial cells use alpha 2 beta 1 integrin as a laminin receptor. Languino LR, et al. **J Cell Biol** 1989 Nov; 109(5):2455-62

Correlation of cell migration, cell invasion, receptor number, proteinase production, and basic fibroblast growth factor levels in endothelial cells. Tsuboi R, et al. **J Cell Biol** 1990 Feb;110(2):511-7

Endothelial cell-associated platelet-activating factor: a novel mechanism for signaling intercellular adhesion. Zimmerman GA, et al. **J Cell Biol** 1990 Feb;110(2):529-40

Modulation of Ca2(+)-dependent intercellular adhesion in bovine aortic and human umbilical vein endothelial cells by heparin-binding growth factors. Bavisotto LM, et al. **J Cell Physiol** 1990 Apr;143(1):39-51

Synergism between gangliosides and basic fibroblastic growth factor in favouring survival, growth, and motility of capillary endothelium. De Cristan G, et al. **J Cell Physiol** 1990 Sep;144(3):505-10

Human recombinant interleukin-1 beta- and tumor necrosis factor alpha-mediated suppression of heparin-like compounds on cultured porcine aortic endothelial cells. Kobayashi M, et al. **J Cell Physiol** 1990 Sep;144(3):383-90

Transforming growth factor beta 1 modulates extracellular matrix organization and cell-cell junctional complex formation during in vitro angiogenesis. Merwin JR, et al. **J Cell Physiol** 1990 Jan;142(1):117-28

Comparative study of oxygen toxicity in human fibroblasts and endothelial cells. Michiels C, et al. **J Cell Physiol** 1990 Aug;144(2):295-302

Comparison of the function of the tight junctions of endothelial cells and epithelial cells in regulating the movement of electrolytes and macromolecules across the cell monolayer. Milton SG, et al. **J Cell Physiol** 1990 Sep; 144(3):498-504

Pulmonary microvascular endothelial cell contractility on silicone rubber substrate. Morel NM, et al. **J Cell Physiol** 1989 Dec;141(3):653-9

Role of extracellular signaling on endothelial cell proliferation and protein N-glycosylation. Oliveira CM, et al. **J Cell Physiol** 1990 Sep;144(3):467-72

Role of albumin arginyl sites in albumin-induced reduction of endothelial hydraulic conductivity. Powers MR, et al. **J Cell Physiol** 1989 Dec;141(3):558-64

Basic fibroblast growth factor: production, mitogenic response, and post-receptor signal transduction in cultured normal and transformed fetal bovine aortic endothelial cells. Presta M, et al. **J Cell Physiol** 1989 Dec;141(3):517-26

Effect of inflammatory cytokines on human endothelial cell proliferation. Saegusa Y, et al. **J Cell Physiol** 1990 Mar; 142(3):488-95

Growth-inhibiting effect of tumor necrosis factor on human umbilical vein endothelial cells is enhanced with advancing age in vitro. Shimada Y, et al. **J Cell Physiol** 1990 Jan; 142(1):31-8

Enhancement of thrombin- and ionomycin-stimulated prostacyclin and platelet-activating factor production in cultured endothelial cells by a tumor-promoting phorbol ester. Zavoico GB, et al. **J Cell Physiol** 1990 Jun; 143(3):596-605

Effect of hypoxia upon the growth and sprouting activity of cultured aortic endothelium from the rat. Smith P. **J Cell Sci** 1989 Mar;92 (Pt 3):505-12

Substratum-induced stress fiber assembly in vascular endothelial cells during spreading in vitro. Yost JC, et al. **J Cell Sci** 1990 Mar;95 (Pt 3):507-20

Tumor vascular permeability factor stimulates endothelial cell growth and angiogenesis. Connolly DT, et al. **J Clin Invest** 1989 Nov;84(5):1470-8

Implantation of cultured sensory neurons and Schwann cells into lesioned neonatal rat spinal cord. I. Methods for preparing implants from dissociated cells. Kuhlengel KR, et al. **J Comp Neurol** 1990 Mar 1;293(1):63-73

Glycosaminoglycans of bovine aorta endothelial cells: identification and localization by use of a platelet factor 4-fluorescein probe. Silbert DI, et al. **J Histochem Cytochem** 1990 Apr;38(4):589-93

Characterization of monocyte adherence to human macrovascular and microvascular endothelial cells. Beekhuizen H, et al. **J Immunol** 1990 Jul 15;145(2):510-8

IL-3 augments adhesiveness for endothelium and CD11b expression in human basophils but not neutrophils. Bochner BS, et al. **J Immunol** 1990 Sep 15;145(6):1832-7

Increased lymphocyte adherence to human arterial endothelial cell monolayers in the context of allorecognition. Colson YL, et al. **J Immunol** 1990 Apr 15;144(8):2975-84

Ability of human T lymphocytes to adhere to vascular endothelial cells and to augment endothelial permeability to macromolecules is linked to their state of post-thymic maturation. Damle NK, et al. **J Immunol** 1990 Feb 15; 144(4):1233-40

Effects of six different cytokines on lymphocyte adherence to microvascular endothelium and in vivo lymphocyte migration in the rat. Issekutz TB. **J Immunol** 1990 Mar 15;144(6):2140-6

Human endothelial cell adhesiveness for neutrophils, induced by Escherichia coli lipopolysaccharide in vitro, is inhibited by Bacteroides fragilis lipopolysaccharide. Magnuson DK, et al. **J Immunol** 1989 Nov 1;143(9):3025-30

IL-4 increases human endothelial cell adhesiveness for T cells but not for neutrophils. Thornhill MH, et al. **J Immunol** 1990 Apr 15;144(8):3060-5

Characterization of the enhanced adhesion of neutrophil leukocytes to thrombin-stimulated endothelial cells. Toothill VJ, et al. **J Immunol** 1990 Jul 1;145(1):283-91

Migration assay for endothelial cells in multiwells. Application to studies on the effect of opioids. Fischer EG, et al. **J Immunol Methods** 1990 Apr 17;128(2):235-9

Mechanisms of neutrophil-mediated killing of endothelial cells. Ward PA, et al. **J Leukoc Biol** 1990 Jul;48(1):97-102 (40 ref.)

Human cerebral endothelium: isolation and characterization of cells derived from microvessels of non-neoplastic and malignant glial tissue. Costello P, et al. **J Neurooncol** 1990 Jun;8(3):231-43

Inhibitory effects of gold sodium thiomalate on the proliferation and interferon-gamma induced HLA-DR expression in human endothelial cells. Kawakami A, et al. **J Rheumatol** 1990 Apr;17(4):430-5

Comparison of two techniques to isolate microvascular endothelial cells from the omentum. Sterpetti AV, et al. **J Surg Res** 1990 Feb;48(2):101-6

Modulation of endothelial cell phenotype by cyclic stretch: inhibition of collagen production. Sumpio BE, et al. **J Surg Res** 1990 May;48(5):415-20

The vascular endothelial cell as a vehicle for gene therapy. Callow AD. **J Vasc Surg** 1990 Jun;11(6):793-8

Reduced platelet deposition on seeded versus unseeded segments of expanded polytetrafluoroethylene grafts: clinical observations after a 6-month follow-up. Ortenwall P, et al. **J Vasc Surg** 1989 Oct;10(4):374-80

Endothelial cell seeding reduces thrombogenicity of Dacron grafts in humans. Ortenwall P, et al. **J Vasc Surg** 1990 Mar;11(3):403-10

Thrombus-free, human endothelial surface in the midregion of a Dacron vascular graft in the splanchnic venous circuit—observations after nine months of implantation. Park PK, et al. **J Vasc Surg** 1990 Mar;11(3):468-75

Confluent durable endothelialization of endarterectomized baboon aorta by early attachment of cultured endothelial cells. Schneider PA, et al. **J Vasc Surg** 1990 Mar; 11(3):365-72

Rapid cellular luminal coverage of Dacron inferior vena cava prostheses in dogs by immediate seeding of autogenous endothelial cells derived from omental tissue: results of a preliminary trial. Wang ZG, et al. **J Vasc Surg** 1990 Aug; 12(2):168-79

In situ cannulation, microgrid follow-up and low-density plating provide first passage endothelial cell masscultures for in vitro lining. Zilla P, et al. **J Vasc Surg** 1990 Aug; 12(2):180-9

Regeneration of endothelial cells after balloon denudation of the rabbit carotid artery and changes in responsiveness. Azuma H, et al. **Jpn J Pharmacol** 1990 Apr;52(4):541-52

Identification of hypoxanthine and inosine in brain dialyzable fraction as stimulators for growth of porcine aortic endothelial cells in response to fibroblast growth factor in either dialyzed serum media or low serum media. Hayashi Y, et al. **Jpn J Pharmacol** 1990 May;53(1):1-9

Experimental study on the behavior of a transplanted vascular pedicle. Hung LK, et al. **Microsurgery** 1989; 10(3):178-82

Calcium influx into endothelial cells and formation of endothelium-derived relaxing factor is controlled by the membrane potential. Lückhoff A, et al. **Pflugers Arch** 1990 May;416(3):305-11

The application of bovine brain microvessel endothelial-cell monolayers grown onto polycarbonate membranes in vitro to estimate the potential permeability of solutes through the blood-brain barrier. Shah MV, et al. **Pharm Res** 1989 Jul;6(7):624-7

Purification of a glycoprotein vascular endothelial cell mitogen from a rat glioma-derived cell line. Conn G, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1323-7

Interleukin 1 is an autocrine regulator of human endothelial cell growth. Cozzolino F, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(17):6487-91

Isolation and characterization of a vascular endothelial cell mitogen produced by pituitary-derived folliculo stellate cells. Gospodarowicz D, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7311-5

Calcitonin gene-related peptide stimulates proliferation of human endothelial cells. Haegerstrand A, et al. **Proc Natl Acad Sci U S A** 1990 May;87(9):3299-303

Fibronectin controls capillary endothelial cell growth by modulating cell shape. Ingber DE. **Proc Natl Acad Sci U S A** 1990 May;87(9):3579-83

Rapid adhesive responses of endothelial cells and of neutrophils induced by leukotriene B4 are mediated by leucocytic adhesion protein CD18. Lindström P, et al. **Scand J Immunol** 1990 Jun;31(6):737-44

Electron microscopy of endothelial cell-biopolymer interaction. Williams SK, et al. **Scanning Microsc** 1990 Mar; 4(1):181-9

Vascular permeability factor, an endothelial cell mitogen related to PDGF. Keck PJ, et al. **Science** 1989 Dec 8; 246(4935):1309-12

Vascular endothelial growth factor is a secreted angiogenic mitogen. Leung DW, et al. **Science** 1989 Dec 8; 246(4935):1306-9

An inducible endothelial cell surface glycoprotein mediates melanoma adhesion. Rice GE, et al. **Science** 1989 Dec 8; 246(4935):1303-6

Technical considerations in evaluating the adhesion of leukocytes to aortic endothelium of the rat. Gabaldón M, et al. **Stain Technol** 1989 Sep;64(5):211-9

Potentiation of anti-platelet aggregating activity of cilostazol with vascular endothelial cells. Igawa T, et al. **Thromb Res** 1990 Feb 15;57(4):617-23

Lipolyzed hypertriglyceridemic serum and triglyceride-rich lipoprotein cause lipid accumulation in and are cytotoxic to cultured human endothelial cells. High density lipoproteins inhibit this cytotoxicity. Speidel MT, et al. **Thromb Res** 1990 May 1;58(3):251-64

Dye and electrical coupling of endothelial cells in situ. Bény JL, et al. **Tissue Cell** 1989;21(6):797-802

Effects of phorbol esters on endothelial cell microfilaments: laser scanning confocal microscopy and quantitative morphometry of dose dependent changes. Nielsen TB, et al. **Tissue Cell** 1989;21(6):813-23

Genetically modified endothelial cells in the treatment of human diseases. Wilson JM, et al. **Trans Assoc Am Physicians** 1989;102:139-47

Lymphocytes bind to capillary endothelium during heart allograft rejection. Turunen JP, et al. **Transplant Proc** 1990 Feb;22(1):126

Inflammation-induced endothelial cell adhesion to lymphocytes, neutrophils, and monocytes. Role of homing receptors and other adhesion molecules. Jutila MA, et al. **Transplantation** 1989 Nov;48(5):727-31 (42 ref.)

[Desquamation of the vascular endothelium after a normal birth and surgical delivery] Glavanakova V, et al. **Akush Ginekol (Sofiia)** 1989;28(5):1-6 (Eng. Abstr.) **(Bul)**

[Protective effect of the antioxidants selenium, vitamin E, and superoxide dismutase on cultured human endothelial cells (ECs) injured by lipid peroxidation] Yang XH, et al. **Chung-hua Ping Li Hsueh Tsa Chih** 1990 Mar;19(1):8-11 (Eng. Abstr.) **(Chi)**

[Endocytosis and cytotoxin effect induced by the attachment of the glycolipoprotein of leptospires to vascular endothelial cell in culture] Bao L, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Jun;20(2):115-8 (Eng. Abstr.) **(Chi)**

[Culture of retinal capillary endothelial cells] Malecaze F, et al. **J Fr Ophtalmol** 1989;12(4):267-72 (Eng. Abstr.) **(Fre)**

[Migration of monocytes and granulocytes in co-culture with endothelial cells] Grünwald J, et al. **Z Kardiol** 1989;78 Suppl 6:113-6 (Eng. Abstr.) **(Ger)**

[Influence of fluid shear stress on cultured vascular endothelial cells] Takakuwa O. **Hokkaido Igaku Zasshi** 1990 Mar;65(2):178-88 (Eng. Abstr.) **(Jpn)**

[Morphology and function of endothelial cells] Yoshida Y. **Kokyu To Junkan** 1989 Aug;37(8):819-33 (96 ref.) **(Jpn)**

[Comparative study of the proliferative activity of blood vessel cells of various calibers] Gansburskiĭ AN, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):387-9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Field stimulation-induced, endothelium-dependent relaxation of rat tail artery is blocked by alpha,beta-methylene ATP and known inhibitors of the arachidonic acid cascade. Bao JX, et al. **Acta Physiol Scand** 1989 Sep;137(1):153-4

Arachidonic acid and cerebromicrovascular endothelial permeability. Villacara A, et al. **Adv Neurol** 1990; 52:195-201

LPS-stimulated bovine aortic endothelial cells produce IL-1

and IL-6 like activities. Modat G, et al. **Agents Actions** 1990 Jun;30(3-4):403-11

Effects of indapamide on endothelium-dependent relaxations in isolated canine femoral arteries. Schini VB, et al. **Am J Cardiol** 1990 May 2;65(17):6H-10H

Effect of pregnancy on uterine and carotid artery response to norepinephrine, epinephrine, and phenylephrine in vessels with documented functional endothelium [published erratum appears in Am J Obstet Gynecol 1990 Apr;162(4):1133] Weiner CP, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1605-10

Prevention of neutrophil-mediated injury to endothelial cells by perfluorochemical. Babbitt DG, et al. **Am J Pathol** 1990 Feb;136(2):451-9

Vascular effects of cyclosporine A in vivo and in vitro. Ferns G, et al. **Am J Pathol** 1990 Aug;137(2):403-13

Angiotensin II induces endothelium-dependent vasodilation of rat cerebral arterioles. Haberl RL, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1840-6

Xanthine oxidase-induced injury to endothelium: role of intracellular iron and hydroxyl radical. Kvietys PR, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1640-6

Isoflurane and halothane attenuate coronary artery constriction evoked by serotonin in isolated porcine vessels and in intact pigs. Witzeling TM, et al. **Anesthesiology** 1990 Jul;73(1):100-8

Coronary endothelium is responsive to bradykinin and arachidonate but not to acetylcholine. Harasawa Y, et al. **Arch Int Pharmacodyn Ther** 1989 Nov-Dec;302:196-208

Development of a novel artificial matrix with cell adhesion peptides for cell culture and artificial and hybrid organs. Matsuda T, et al. **ASAIO Trans** 1989 Jul-Sep;35(3):677-9

Effects of dietary fish oil and butterfat on serum lipids and monocyte and platelet interactions with aortic endothelial cells. Foxall TL, et al. **Atherosclerosis** 1990 Jan;80(3):171-9 (55 ref.)

Heparin protects cultured arterial endothelial cells from damage by toxic oxygen metabolites. Hiebert LM, et al. **Atherosclerosis** 1990 Jul;83(1):47-51

Effect of lysophosphatidylcholine on atherosclerotic rabbit arteries. Wolf A, et al. **Atherosclerosis** 1989 Dec;80(2):81-9

Removal of endothelial function in coronary resistance vessels by saponin. Wiest E, et al. **Basic Res Cardiol** 1989 Sep-Oct;84(5):469-78

Macrophage and endothelial cell nitric oxide synthesis: cell-type selective inhibition by NG-aminoarginine, NG-nitroarginine and NG-methylarginine. Gross SS, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):96-103

Inhibition of prostacyclin formation by cyclosporin is not due to reduced availability of arachidonic acid in membrane phospholipids of cultured human endothelial cells. Brown Z, et al. **Biochem Pharmacol** 1990 Mar 15;39(6):1136-8

Thrombin receptor antagonists. Structure-activity relationships for the platelet thrombin receptor and effects on prostacyclin synthesis by human umbilical vein endothelial cells. Ruda EM, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):373-81

Phosphatidylcholine hydrolysis stimulated by phorbol myristate acetate is mediated principally by phospholipase D in endothelial cells. Martin TW, et al. **Biochim Biophys Acta** 1990 Jul 12;1053(2-3):162-72

Substance P and bradykinin hyperpolarize pig coronary artery endothelial cells in primary culture. Brunet PC, et al. **Blood Vessels** 1989;26(4):228-34

Action of calcitonin gene-related peptide upon bovine vascular endothelial and smooth muscle cells grown in isolation and co-culture. Crossman DC, et al. **Br J Pharmacol** 1990 Jan;99(1):71-6

Interactions of palmitoyl carnitine with the endothelium in rat aorta. Dainty IA, et al. **Br J Pharmacol** 1990 Jun;100(2):241-6

Endothelium-dependent vasodilator effects of platelet activating factor on rat resistance vessels. Kamata K, et al. **Br J Pharmacol** 1989 Dec;98(4):1360-4

L-NG-nitro arginine (L-NOARG), a novel, L-arginine-reversible inhibitor of endothelium-dependent vasodilatation in vitro. Moore PK, et al. **Br J Pharmacol** 1990 Feb;99(2):408-12

Correlation of inhibition of adhesion of large cell lymphoma and hepatic sinusoidal endothelial cells by RGD-containing peptide polymers with metastatic potential: role of integrin-dependent and -independent adhesion mechanisms. Tressler RJ, et al. **Cancer Commun** 1989; 1(1):55-63

An in vitro system for study of effects of angiotensin I on cultured endothelial cells. Bagby SP, et al. **Cardiovasc Res** 1989 Apr;23(4):279-85

Expression and desensitisation of A2 purinoceptors on cultured bovine aortic endothelial cells. Luty J, et al. **Cardiovasc Res** 1989 Apr;23(4):303-7

Calcitonin gene related peptide (CGRP) activates adenylate cyclase of bovine aortic endothelial cells: guanosine 5' triphosphate dependence and partial agonist activity of a tyrosinated analogue. McEwan JR, et al. **Cardiovasc Res** 1989 Nov;23(11):921-7

A stimulatory effect of Artemisia leaf extract on the proliferation of cultured endothelial cells. Kaji T, et al. **Chem Pharm Bull (Tokyo)** 1990 Feb;38(2):538-40

Comparative behavior of thrombin and an inactive derivative, FPR-thrombin, toward the rabbit vascular endothelium. Heparin liberates FPR-thrombin from the endothelium in vivo. Hatton MW, et al. **Circ Res** 1990 Jul;67(1):221-9

Inhibition of endothelial nitric oxide biosynthesis by N-nitro-L-arginine. Dubbin PN, et al. **Clin Exp Pharmacol Physiol** 1990 Apr;17(4):281-6

Effect of endothelin on the function of the isolated perfused working rat heart. Firth JD, et al. **Clin Sci** 1990 Sep; 79(3):221-6

Topical citrate inhibits the adherence of neutrophils to postcapillary venules. Pfister RR, et al. **Cornea** 1990 Jul; 9(3):238-45

Rabbit leukocytes activated by C5a des Arg and N-formyl-methionyl-leucyl-phenylalanine promote endothelial prostacyclin production. Evidence for a role of hydrogen peroxide. Rampart M, et al. **Eicosanoids** 1989; 2(2):109-15

Effects of relaxin on the endothelium of endometrial blood vessels in monkeys (Macaca mulatta). Hisaw FL, et al. **Endocrinology** 1967 Aug;81(2):375-85

New in vivo model to assess venous endothelial cell functions. Effect of defibrotide. Di Perri T, et al. **Eur J Clin Pharmacol** 1989;37(4):351-7

Homologous desensitization of the effects of endothelin on rabbit aorta rings and on cultured rat aorta smooth muscle cells. Miasiro N, et al. **Eur J Pharmacol** 1990 Apr 10; 179(1-2):151-8

Coronary endothelial dysfunction from ischemia and reperfusion: effect of reactive oxygen metabolite scavengers. Horwitz LD, et al. **Free Radic Biol Med** 1990; 8(4):381-6

Role of endothelium on phenylephrine-triggered contractile events in aorta of spontaneously hypertensive rats. Auguet M, et al. **Fundam Clin Pharmacol** 1989;3(6):655-64

The destructive effects of sclerosant ethanolamine oleate on mammalian vessel endothelium. Masaki M, et al. **Gastroenterol Jpn** 1990 Apr;25(2):230-5

Possible involvement of endothelium in the responses of various vasoactive agents in rabbit isolated perfused kidney. Ercan ZS, et al. **Gen Pharmacol** 1990;21(2):205-9

Catecholamines do not induce fibrinolytic activity increase in cultured bovine endothelial cells. Peracchia F, et al. **Haemostasis** 1989;19(4):235-40

Antiatherosclerotic effects of calcium antagonists. Study in human aortic cell culture. Orekhov AN, et al. **Herz** 1990 Apr;15(2):139-45

IL-1 transcriptionally activates the neutrophil chemotactic factor/IL-8 gene in endothelial cells. Sica A, et al. **Immunology** 1990 Apr;69(4):548-53

Bovine pulmonary endothelial cell damage mediated by Pasteurella haemolytica pathogenic factors. Breider MA, et al. **Infect Immun** 1990 Jun;58(6):1671-7

Inhibitory effects of DN-9693 on platelet-enhanced tumor cell attachment to cultured endothelium. Tohgo A, et al. **Invasion Metastasis** 1990;10(1):1-17

Basic fibroblast growth factor stimulates 3H-thymidine uptake in retinal venular and capillary endothelial cells in vivo. de Juan E, et al. **Invest Ophthalmol Vis Sci** 1990 Jul; 31(7):1238-44

Exposure of pulmonary artery endothelial cells to nitrogen dioxide activates phospholipase A1. Bhat GB, et al. **J Biochem Toxicol** 1990 Spring;5(1):67-9

Toxic effects of aldehydes released from fixed pericardium on bovine aortic endothelial cells. Eybl E, et al. **J Biomed Mater Res** 1989 Nov;23(11):1355-65

In vitro modulation of endothelial fenestrae: opposing effects of retinoic acid and transforming growth factor beta. Lombardi T, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):313-8

Biochemical characterisation of polycation-induced cytotoxicity to human vascular endothelial cells. Morgan DM, et al. **J Cell Sci** 1989 Nov;94 (Pt 3):553-9

Effects of synthetic polycations on leucine incorporation, lactate dehydrogenase release, and morphology of human umbilical vein endothelial cells. Morgan DM, et al. **J Cell Sci** 1988 Oct;91 (Pt 2):231-8

Minimally modified low density lipoprotein stimulates monocyte endothelial interactions. Berliner JA, et al. **J Clin Invest** 1990 Apr;85(4):1260-6

Production of endothelin by cultured porcine endothelial cells: modulation by adrenaline. Kohno M, et al. **J Hypertens Suppl** 1989 Dec;7(6):S130-1

IL-4 regulates endothelial cell activation by IL-1, tumor necrosis factor, or IFN-gamma. Thornhill MH, et al. **J Immunol** 1990 Aug 1;145(3):865-72

Exogenous adenine nucleotides replete endothelial cell adenosine triphosphate after oxidant injury by adenosine uptake. Andreoli SP, et al. **J Lab Clin Med** 1990 Mar; 115(3):304-13

Sodium taurocholate affects prostacyclin constitutive production by cultured human vascular endothelial cells. Calcamuggi G, et al. **J Lab Clin Med** 1990 Jun; 115(6):756-60

Superoxide radical-mediated endothelial injury and vasoconstriction of rat thoracic aortic rings. Lawson DL, et al. **J Lab Clin Med** 1990 May;115(5):541-8

Bacterial lipopolysaccharide acts on human endothelial cells to enhance the adherence of peripheral blood monocytes. Whisler RL, et al. **J Lab Clin Med** 1989 Dec;114(6):708-16

Effect of vitamin E on linoleic acid-mediated induction of peroxisomal enzymes in cultured porcine endothelial cells. Hennig B, et al. **J Nutr** 1990 Apr;120(4):331-7

Neovascularization of surface demineralized dentin. Tweden KS, et al. **J Periodontol** 1989 Aug;60(8):460-6

Nerve and drug-induced release of adenine nucleosides and nucleotides from rabbit aorta. Sedaa KO, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1060-7

Bradykinin-evoked changes in cytosolic calcium and membrane currents in cultured bovine pulmonary artery endothelial cells. Cannell MB, et al. **J Physiol (Lond)** 1989 Dec;419:555-68

The effects of thrombin on bovine aortic endothelial and smooth muscle cells. Graham DJ, et al. **J Vasc Surg** 1990 Feb;11(2):307-12; discussion 312-3

Cytoprotective effect of TRK-100, a prostacyclin analogue, against chemical injuries in cultured human vascular endothelial cells. Sakai A, et al. **Life Sci** 1990;47(8):711-9

Chicago sky blue and a helium neon laser abolish endothelium dependent relaxation in vivo in the microcirculation. Nishimura H, et al. **Microcirc Endothelium Lymphatics** 1989 Dec;5(6):435-40

Modulation of cultured pulmonary microvessel and arterial endothelial cell barrier structure and function by serotonin. Mineau-Hanschke R, et al. **Microvasc Res** 1990 Mar; 39(2):140-55

Dextran sulfate prevents LTB4-induced permeability increase, but not neutrophil emigration, in the hamster cheek pouch. Rosengren S, et al. **Microvasc Res** 1989 Nov; 38(3):243-54

Comparison of P2 purinergic receptors of aortic endothelial cells with those of adrenal medulla: evidence for heterogeneity of receptor subtype and of inositol phosphate response. Allsup DJ, et al. **Mol Pharmacol** 1990 Jul; 38(1):84-91

Coronary endothelium-protective effects of defibrotide in ischaemia and reperfusion. Lefer AM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):246-50

Activators of potassium channels enhance calcium influx into endothelial cells as a consequence of potassium currents. Lückhoff A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jul; 342(1):94-9

Sensory nerves, vascular endothelium and neurogenic relaxation of the guinea-pig isolated pulmonary artery. Maggi CA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jul; 342(1):78-84

NG-nitro-L-arginine (N5-[imino(nitroamino)methyl]-L-ornithine) impairs endothelium-dependent dilations by inhibiting cytosolic nitric oxide synthesis from L-arginine. Mülsch A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan-Feb; 341(1-2):143-7

Inhibition of neutrophil adherence to vascular endothelial cells by a new acylated flavonoid. Tubaro A, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:121-2

Muscarinic receptor subtype (M1) identification on rabbit pulmonary vascular endothelium in vivo. Orphanos SE, et al. **Pharmacology** 1989;39(4):253-64

Effects of hydralazine on guanosine cyclic 3', 5'-monophosphate levels in rat aorta. Yen MH, et al. **Proc Natl Sci Counc Repub China [B]** 1989 Apr;13(2):83-8

Atriopeptin does not augment the transvascular flux of macromolecules in the hamster cheek pouch. Gawlowski DM, et al. **Proc Soc Exp Biol Med** 1990 Jun;194(2):131-5

Purified scatter factor stimulates epithelial and vascular endothelial cell migration. Rosen EM, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):34-43

Morphine induces an intracellular alkalinization in bovine aortic endothelial cells (BAECs). Kiang JG, et al. **Prog Clin Biol Res** 1990;328:137-40

Dual effect of fluoride on endothelial prostacyclin production: a phospholipase C mediated phenomenon. Van Geet C, et al. **Prog Clin Biol Res** 1989;301:377-81

17 alpha-ethinylestradiol decreases production and release of prostacyclin in cultured human umbilical vein endothelial cells. David M, et al. **Prostaglandins** 1989 Oct; 38(4):431-8

Pharmacologic response of endothelium to microvascular temporary clip application. Orbay T, et al. **Surg Neurol** 1990 Mar;33(3):192-4

Mechanism of protection of oxidant-injured endothelial cells by glutamine. Hinshaw DB, et al. **Surgery** 1990 Aug; 108(2):298-304; discussion 304-5

Platelet adhesion to subendothelial structures under flow conditions: no effect of the lipoxygenase product 13-HODE. de Graaf JC, et al. **Thromb Haemost** 1989 Sep 29;62(2):802-6

Heparin enhances thrombin-stimulated prostaglandin I2 production by cultured endothelial cells. Itoh F, et al. **Thromb Res** 1990 Feb 15;57(4):481-8

Effects of Hydergine on platelet deposition on "active" human carotid artery lesions and platelet function. Steurer G, et al. **Thromb Res** 1989 Sep 1;55(5):577-89

The antiatherogenic effects of components isolated from pollen typhae. Zhao J, et al. **Thromb Res** 1990 Mar 15; 57(6):957-66

Endothelium-dependent effects of cigarette smoke components on tone of porcine intrapulmonary arteries in vitro. Holden WE, et al. **Toxicol Appl Pharmacol** 1990 Jun 15;104(2):191-9

Amiodarone-mediated increase in intracellular free Ca2+ associated with cellular injury to human pulmonary artery endothelial cells. Powis G, et al. **Toxicol Appl Pharmacol** 1990 Mar 15;103(1):156-64

Cyclosporine inhibits prostacyclin production by cultured human endothelial cells. Brown Z, et al.

Transplant Proc 1987 Feb;19(1 Pt 2):1178–80

Severe endothelial injury in a renal transplant patient receiving cyclosporine. Fogo A, et al. **Transplantation** 1990 Jun;49(6):1190–2

The role of the endothelium on calcium–entry blockade in coronary vasospasm. Duprez D. **Verh K Acad Geneeskd Belg** 1989;51(4):295–313

Endothelium–derived relaxing factor(s) and calcium antagonists. Auch–Schwelk W, et al. **Z Kardiol** 1989;78 Suppl 6:120–3

Clinical tolerance to nitroglycerin is due to impaired biotransformation of nitroglycerin and biological counterregulation, not to desensitization of guanylate cyclase. Mülsch A, et al. **Z Kardiol** 1989;78 Suppl 2:22–5; discussion 64–7

Konkurrenz zwischen endothelabhängiger und Nitroglygerin–induzierter koronarer Vasodilatation [Competition between endothelium–dependent and nitroglycerin–induced coronary vasodilation] Rafflenbeul W, et al. **Z Kardiol** 1989;78 Suppl 2:45–7; discussion 64–7

The influence of endothelium on glyceryl trinitrate induced relaxation in corresponding arteries and veins of the rabbit. Rösen R, et al. **Z Kardiol** 1989;78 Suppl 2:29–32; discussion 64–7

Endothelial protection by defibrotide—a new strategy for treatment of myocardial infarction? Schrör K, et al. **Z Kardiol** 1989;78 Suppl 6:35–41

[Vasodilator agents and the vascular endothelium] Berdeaux A. **Ann Cardiol Angeiol (Paris)** 1989 Dec 30;38(10):611–5 (Eng. Abstr.) (Fre)

[Effect of cicletanine on the mechanical properties of the arterial wall] Levy BI, et al. **Arch Mal Coeur** 1989 Nov; 82 Spec No 4:67–70 (Eng. Abstr.) (Fre)

[The endothelium and antithrombotic substances] Eber B. **Acta Med Austriaca** 1989;16(5):102–4 (29 ref.) (Eng. Abstr.) (Ger)

[Atherosclerosis prevention is possible. Calcium antagonists protect the endothelium. Abstracts of the Bayotensin Workshop on New Aspects of Antihypertensive Treatment with Calcium Antagonists: Calcium Antagonists and Atherosclerosis. Fuschl, 8–10 June 1990] **Fortschr Med** 1990;108 Suppl 95:1–15 (Ger)

[Synthesis and biological activity of 5–phenyl–1,3,4–benzotriazepines. 20. Biological activity of 2–alkylamino– and 2–thioxo–1,3,4–benzotriazepines in aortic endothelial cells] Melzig M, et al. **Pharmazie** 1989 Oct;44(10):731–2 (Ger)

[The effect of alkyl–lysophospholipids and membrane potentials, proliferation and migration of isolated calf aorta endothelial cells] Mende S, et al. **Pharmazie** 1989 Oct; 44(10):713–5 (Eng. Abstr.) (Ger)

[The effect of diltiazem on plaque cells of primary and restenosed lesions] Voisard R, et al. **Vasa Suppl** 1989; 27:241–3 (Ger)

[Clinico–morphologic correlations of lesions induced by adriamycin administered in the thoracic aorta] Rusignuolo F, et al. **G Ital Oncol** 1989 Oct–Dec;9(4):145–56 (Eng. Abstr.) (Ita)

[Studies on the damage of the cultured endothelial cells and K–562 cells by sclerosants (ethanolamine oleate, Aethoxysklerol and absolute ethanol) used in the treatment of esophageal varices] Orikasa K. **Nippon Shokakibyo Gakkai Zasshi** 1989 Oct;86(10):2365–72 (Eng. Abstr.) (Jpn)

[The reaction of vascular endothelial cells in old animals to an increased blood level of angiotensin II] Kopylova GV, et al. **Fiziol Zh** 1990 Mar–Apr;36(2):8–13 (Eng. Abstr.) (Rus)

[Characteristics of the contractile reactions of rhythmically active vascular smooth muscles in spontaneously hypertensive rats undergoing hyperoxygenation and the role of the endothelium in their development] Solov'ev AI, et al. **Fiziol Zh** 1989 Jul–Aug;35(4):109–12 (Eng. Abstr.) (Rus)

[Endothelial modulation of arterial smooth muscle reactions to biological amines and electrical stimulation] Baziliuk OV, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):819–23 (Eng. Abstr.) (Rus)

[The effect of histamine on the tonus of isolated coronary arteries with intact and damaged endothelium] Karachentsev AN, et al. **Fiziol Zh SSSR** 1989 Jun; 75(6):798–803 (Eng. Abstr.) (Rus)

[The characteristics of the changes in the aortic endothelium of old rabbits administered adrenaline] Kozhura IP, et al. **Patol Fiziol Eksp Ter** 1990 Jan–Feb;(1):35–7 (Eng. Abstr.) (Rus)

EMBRYOLOGY

[Vascular endothelium (review). I. General morphology. 2A: histogenesis of the vascular endothelium] Welt K, et al. **Gegenbaurs Morphol Jahrb** 1990;136(2):163–99 (153 ref.) (Eng. Abstr.) (Ger)

ENZYMOLOGY

Ultracytochemical localisation of Na+, K(+)–ATPase in cerebral endothelium in acute hypertension. Nag S. . **Acta Neuropathol (Berl)** 1990;80(1):7–11

Dipeptidyl(amino)peptidase IV and post proline cleaving enzyme in cultured endothelial and smooth muscle cells. Palmieri FE, et al. **Adv Exp Med Biol** 1989;247A:305–11

Glioma cell influence on cerebral endothelial cell Na(+)–K(+)–ATPase. Beck DW, et al. **Adv Neurol** 1990; 52:415–20

Oxidant–mediated activation of phospholipase A2 in pulmonary endothelium. Chakraborti S, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):L430–7

Angiotensin–converting enzyme kinetics in an endothelial cell column. Howell RE, et al. **Am J Physiol** 1990 Apr; 258(4 Pt 1):L188–94

Tumor necrosis factor induced release of endothelial cell lipoprotein lipase. Saxena U, et al. **Arteriosclerosis** 1990 May–Jun;10(3):470–6

The respective 27 kDa and 28 kDa protein kinase C substrates in vascular endothelial and MCF–7 cells are most probably heat shock proteins. Darbon JM, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):527–36

Phosphoramidon, a metalloproteinase inhibitor, suppresses the secretion of endothelin–1 from cultured endothelial cells by inhibiting a big endothelin–1 converting enzyme. Ikegawa R, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):669–75

Partial characterization of a metalloendopeptidase activity produced by cultured endothelial cells that removes the COOH–terminal tripeptide from 125I–atrial natriuretic factor. Johnson GR, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):110–6

Biosynthesis of endothelium–derived relaxing factor: a cytosolic enzyme in porcine aortic endothelial cells Ca2+–dependently converts L–arginine into an activator of soluble guanylyl cyclase. Mayer B, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):678–85

Characterization of endothelin converting enzyme activities in soluble fraction of bovine cultured endothelial cells. Sawamura T, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):1138–44

Bovine aortic endothelial cell transglutaminase. Enzyme characterization and regulation of activity. Korner G, et al. **Biochem J** 1989 Sep 1;262(2):633–41

Pig aortic endothelial–cell cyclic nucleotide phosphodiesterases. Use of phosphodiesterase inhibitors to evaluate their roles in regulating cyclic nucleotide levels in intact cells. Souness JE, et al. **Biochem J** 1990 Feb 15; 266(1):127–32

Characterization of cyclic nucleotide phosphodiesterases from cultured bovine aortic endothelial cells. Lugnier C, et al. **Biochem Pharmacol** 1990 Jan 1;39(1):75–84

Endothelium removal does not abolish angiotensin converting enzyme activity from the mesenteric arterial bed of the rat. Pipili–Synetos E, et al. **Biochem Pharmacol** 1990 Sep 1;40(5):1149–51

Elevation of bovine endothelial cell angiotensin converting enzyme by cationophores and inhibition by ouabain. Dasarathy Y, et al. **Biochim Biophys Acta** 1990 Jan 23; 1051(1):14–20

Blood–brain barrier characteristic enzymatic properties in cultured brain capillary endothelial cells. Meyer J, et al. **Brain Res** 1990 Apr 30;514(2):305–9

Evidence of endoplasmic reticulum–related Ca2+ ATPase in human microvascular endothelial cells. Bikfalvi A, et al. **Exp Cell Res** 1989 Sep;184(1):28–36

Mediator–induced activation of xanthine oxidase in endothelial cells. Friedl HP, et al. **FASEB J** 1989 Nov; 3(13):2512–8

Inhibition of oxygen toxicity by targeting superoxide dismutase to endothelial cell surface. Inoue M, et al. **FEBS Lett** 1990 Aug 20;269(1):89–92

Role of interaction of the tanycytes of the third ventricle of the brain with the vascular bed endothelium in enzymatic activation of the parkinsonism–inducing proneurotoxin MPTP in rat brain. Horský J, et al. **Folia Morphol (Praha)** 1990;38(1):24–7

N–acetylglucosamine–6–phosphate deacetylase in hepatocytes, Kupffer cells and sinusoidal endothelial cells from rat liver. Campbell P, et al. **Hepatology** 1990 Feb; 11(2):199–204

Purine nucleoside phosphorylase: a new marker for free oxygen radical injury to the endothelial cell. Rao PN, et al. **Hepatology** 1990 Feb;11(2):193–8

Quantitative detection of blood–brain barrier–associated enzymes in cultured endothelial cells of porcine brain microvessels. Fukushima H, et al. **In Vitro Cell Dev Biol** 1990 Jun;26(6):612–20

Medroxyprogesterone acetate, an anti–cancer and anti–angiogenic steroid, inhibits the plasminogen activator in bovine endothelial cells. Ashino–Fuse H, et al. **Int J Cancer** 1989 Nov 15;44(5):859–64

Evidence for a retinyl ester hydrolase activity in the pig vascular endothelium. Schindler R, et al. **Int J Vitam Nutr Res** 1989;59(4):419–20

Complement proteins C5b–9 induce vesiculation of the endothelial plasma membrane and expose catalytic surface for assembly of the prothrombinase enzyme complex. Hamilton KK, et al. **J Biol Chem** 1990 Mar 5; 265(7):3809–14

Cyclooxygenase is an immediate–early gene induced by interleukin–1 in human endothelial cells. Maier JA, et al. **J Biol Chem** 1990 Jul 5;265(19):10805–8

Retinol–induced morphological changes of cultured bovine endothelial cells are accompanied by a marked increase in transglutaminase. Nara K, et al. **J Biol Chem** 1989 Nov 15;264(32):19308–12

Metabolism of endothelial cell–bound lipoprotein lipase. Evidence for heparan sulfate proteoglycan–mediated internalization and recycling. Saxena U, et al. **J Biol Chem** 1990 Aug 5;265(22):12880–6

Guanine nucleotide–dependent inhibition of phospholipase C in human endothelial cells. Van Geet C, et al. **J Biol Chem** 1990 May 15;265(14):7920–6

In vitro interactions between ramiprilat and angiotensin I–converting enzyme in endothelial cells. Baudin B, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 4:S37–42

Endothelial nitric oxide generating enzyme(s) in the bovine aorta: subcellular location and metabolic characterization. Boje KM, et al. **J Pharmacol Exp Ther** 1990 Apr; 253(1):20–6

Immunocytochemical localization of glyceraldehyde–3–phosphate dehydrogenase in cultured endothelial and smooth muscle cells. Hodor P, et al. **Microcirc Endothelium Lymphatics** 1989 Dec;5(6):485–503

Variant tissue–type plasminogen activator (PLAT) cDNA obtained from human endothelial cells. Siebert PD, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1086

Molecular cloning of human testicular angiotensin–converting enzyme: the testis isozyme is identical to the C–terminal half of endothelial angiotensin–converting enzyme. Ehlers MR, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7741–5

Nitric oxide and cytosolic guanylate cyclase: components of an intercellular signalling system. Böhme E, et al. **Z Kardiol** 1989;78 Suppl 6:75–9 (36 ref.)

[The ectophosphatase activity of cultured endothelial cells of calf aorta and the effect of drugs on ecto–ATPase] Melzig M, et al. **Biomed Biochim Acta** 1989;48(7):431–6 (Eng. Abstr.) (Ger)

[Biological evaluation of extracellular superoxide dismutase observed in a state of acute gastric mucosal lesions] Ohara T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Jan; 87(1):1–7 (Eng. Abstr.) (Jpn)

GROWTH & DEVELOPMENT

The effect of passage number on the stimulation by hypoxia of growth and sprouting activity in cultured aortic endothelium from the rat. Smith P. **Int J Exp Pathol** 1990 Aug;71(4):479–84

Comparative analysis of pseudointima biogenesis in Gelseal coated Dacron knitted graft versus crimped and noncrimped graft. Sottiurai VS, et al. **J Cardiovasc Surg (Torino)** 1989 Nov–Dec;30(6):902–9

Basic fibroblast growth factor stimulates endothelial regrowth and proliferation in denuded arteries. Lindner V, et al. **J Clin Invest** 1990 Jun;85(6):2004–8

Regrowth of arterial endothelium. Denudation with minimal trauma leads to complete endothelial cell regrowth. Lindner V, et al. **Lab Invest** 1989 Nov;61(5):556–63

IMMUNOLOGY

Anti–vascular endothelial cell antibodies in severe preeclampsia. Rappaport VJ, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):138–46

Interleukin–1 alpha inhibits the effects of gamma–interferon and tumor necrosis factor alpha on the expression of the major histocompatibility antigens by the rat endothelium. Leszczynski D. **Am J Pathol** 1990 Jan;136(1):229–37

LAK1: a novel leucocyte differentiation antigen shared by lymphoid and endothelial cells. Zocchi MR, et al. **Basic Appl Histochem** 1990;34(1):43–50

A blocking monoclonal antibody to endothelial–leukocyte adhesion molecule–1 (ELAM1). Benjamin C, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):348–53

Disparate regulation of interleukin 8 gene expression from blood monocytes, endothelial cells, and fibroblasts by interleukin 4. Standiford TJ, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):531–6

Co–expression of haemopoietic antigens on vascular endothelial cells: a detailed phenotypic analysis. Favaloro EJ, et al. **Br J Haematol** 1990 Apr;74(4):385–94

Mosaic reconstruction of blood vessels in mouse neocortical tissue transplanted into the third ventricle of rat brain. Nakano Y, et al. **Brain Res** 1989 Sep 4;496(1–2):336–40

Monoclonal antibody targeting of liposomes to mouse lung in vivo. Hughes BJ, et al. **Cancer Res** 1989 Nov 15; 49(22):6214–20

The mouse lymph node homing receptor is identical with the lymphocyte cell surface marker Ly–22: role of the EGF domain in endothelial binding. Siegelman MH, et al. **Cell** 1990 May 18;61(4):611–22

MB1, a quail leukocyte–endothelium antigen: further characterization of soluble and cell–associated forms. Labastie MC. **Cell Differ Dev** 1989 Sep;27(3):151–62

Pathogenetic role of anti–vascular endothelial cell antibodies in systemic lupus erythematosus. Zhou SF, et al. **Chin Med J [Engl]** 1989 Jul;102(7):505–9

Heat–induced aggregated human IgG modifies the adherence of human polymorphonuclear cells to cultured endothelium. Brown KA, et al. **Clin Exp Immunol** 1989 Sep;77(3):356–60

Anti–endothelial cell antibodies in patients with Wegener's granulomatosis and micropolyarteritis. Ferraro G, et al. **Clin Exp Immunol** 1990 Jan;79(1):47–53

Anti–endothelial cell antibodies in patients with rheumatoid arthritis complicated by vasculitis. Heurkens AH, et al. **Clin Exp Immunol** 1989 Oct;78(1):7–12

Antibody–dependent cellular cytotoxicity of vascular endothelium: characterization and pathogenic associations

in systemic sclerosis. Holt CM, et al.
Clin Exp Immunol 1989 Dec;78(3):359–65
Possible role of vascular endothelial cells in immune responses in colonic mucosa examined immunocytochemically in subjects with and without ulcerative colitis. Matsumoto T, et al.
Clin Exp Immunol 1989 Dec;78(3):424–30
Are accessory molecules implicated in activation of T cells at the blood–retinal barrier? Liversidge J, et al.
Curr Eye Res 1990;9 Suppl:131–4
The inducible blood—brain barrier specific molecule HT7 is a novel immunoglobulin–like cell surface glycoprotein. Seulberger H, et al. **EMBO J** 1990 Jul;9(7):2151–8
Phytohemagglutinin induces major short–term protease–sensitive lymphocyte traffic involving high endothelium venule–like blood vessels in acute delayed–type hypersensitivity–like reactions in skin and other tissues. Binns RM, et al. **Eur J Immunol** 1990 May; 20(5):1067–71
Interleukin 1–induced lymphocyte binding to endothelial cells. Role of cAMP as a second messenger. Renkonen R, et al. **Eur J Immunol** 1990 Jul;20(7):1563–7
Relationship between lectin binding properties and the expression of blood group ABH antigens in vascular endothelia and red blood cells from 18 primate species. Ito N, et al. **Histochem J** 1990 Feb;22(2):113–8
Vascular endothelial differentiation in sponge matrix allografts. Bishop DK, et al. **Hum Immunol** 1990 Jun; 28(2):128–33
Effect of granulocyte–macrophage colony stimulating factor on endothelial antigenicity. Leszczynski D, et al.
Hum Immunol 1990 Jun;28(2):175–8
The potential roles of vascular endothelium in immune reactions. Pober JS, et al. **Hum Immunol** 1990 Jun; 28(2):258–62 (21 ref.)
Identification of antigen presenting cells in normal and transplanted human heart: importance of endothelial cells. Rose ML, et al. **Hum Immunol** 1990 Jun;28(2):179–85
Class II major histocompatibility antigen expression on coronary arterial endothelium in a patient with Kawasaki disease. Terai M, et al. **Hum Pathol** 1990 Feb;21(2):231–4
Pharmacological modulation of interleukin 1 production by cultured endothelial cells from human umbilical veins. Poubelle PE, et al. **Immunopharmacology** 1990 Mar–Apr; 19(2):121–30
Endothelial cells modulate both T–cell–dependent and T–cell–independent plaque–forming cell generation in vitro. Teitel JM, et al. **Int Arch Allergy Appl Immunol** 1990; 91(1):66–73
Structural, functional, and antigenic differences between bovine heart endothelial CD36 and human platelet CD36. Greenwalt DE, et al. **J Biol Chem** 1990 Sep 25; 265(27):16296–9
Immune function of the blood–brain barrier: incomplete presentation of protein (auto–)antigens by rat brain microvascular endothelium in vitro. Risau W, et al.
J Cell Biol 1990 May;110(5):1757–66
Tumor necrosis factor alpha/cachectin stimulates eosinophil oxidant production and toxicity towards human endothelium. Slungaard A, et al. **J Exp Med** 1990 Jun 1; 171(6):2025–41
Lymphocyte–mediated activation of cultured endothelial cells (EC). CD4+ T cells inhibit EC class II MHC expression despite secreting IFN–gamma and increasing EC class I MHC and intercellular adhesion molecule–1 expression. Doukas J, et al. **J Immunol** 1990 Aug 15; 145(4):1088–98
Migration of neutrophils across endothelial monolayers is stimulated by treatment of the monolayers with interleukin–1 or tumor necrosis factor–alpha. Furie MB, et al. **J Immunol** 1989 Nov 15;143(10):3309–17
Cytotoxicity of activated monocytes on endothelial cells. Peri G, et al. **J Immunol** 1990 Feb 15;144(4):1444–8
A monoclonal antibody that detects a novel antigen on endothelial cells that is induced by tumor necrosis factor, IL–1, or lipopolysaccharide. Wellicome SM, et al.
J Immunol 1990 Apr 1;144(7):2558–65
Antigen presentation by brain microvessel smooth muscle and endothelium. Fabry Z, et al. **J Neuroimmunol** 1990 Jun;28(1):63–71
The inhibitory effect of tumor necrosis factor and interleukin–1 on Ia induction by interferon–gamma on endothelial cells from murine central nervous system microvessels. Tanaka M, et al. **J Neuroimmunol** 1990 May; 27(2–3):209–15
In situ demonstration of immunological heterogeneity in vascular endothelial cells of renal cell carcinoma. Kinjo T, et al. **J Surg Oncol** 1990 Feb;43(2):73–8
Immunohistochemical localization of vascular endothelial cell factor VIII/von Willebrand factor antigen in human normal and disordered gastric tissues. Shen SL, et al.
J Tongji Med Univ 1989;9(4):193–8
Immunomodulation of vascular endothelium: effects of ultraviolet B irradiation on vein allograft rejection. Marin ML, et al. **J Vasc Surg** 1990 Jan;11(1):103–11
Endothelial cell activation and high interleukin–1 secretion in the pathogenesis of acute Kawasaki disease [see comments] Leung DY, et al. **Lancet** 1989 Dec 2; 2(8675):1298–302 Comment in: Lancet 1990 Feb 17;335(8686):410–1.
T–cell receptor–negative natural killer cells display antigen–specific cytotoxicity for microvascular endothelial cells. Bender JR, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):6949–53
Tumor necrosis factor and immune interferon synergistically increase transcription of HLA class I heavy– and light–chain genes in vascular endothelium. Johnson DR, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5183–7
Specific lymphocyte–endothelial cell interactions regulate migration into lymph nodes, Peyer's patches, and skin. Chin YH, et al. **Reg Immunol** 1988 Jul–Aug;1(1):78–83 (36 ref.)
Lymphocyte binding to and penetration through vascular endothelium is stimulated by platelet–activating factor. Renkonen R, et al. **Scand J Immunol** 1989 Dec;30(6):673–8
Holding the line against heart disease [news] Marx J.
Science 1990 Jun 22;248(4962):1491–3
Leukocyte–endothelial cell interaction and the control of leukocyte migration into inflamed synovium. Jalkanen S. **Springer Semin Immunopathol** 1989;11(2):187–98 (48 ref.)
Role of endothelium in chronic inflammation. Ziff M.
Springer Semin Immunopathol 1989;11(2):199–214 (88 ref.)
Crossreactivity of antibodies directed against cardiolipin, DNA, endothelial cells and blood platelets. Hasselaar P, et al. **Thromb Haemost** 1990 Apr 12;63(2):169–73
Expression of the drug–dependent antigen for quinine–dependent antiplatelet antibodies on GP IIIa but not that on GPIb, IIb or IX on human endothelial cells. Pfueller SL, et al. **Thromb Haemost** 1990 Apr 12; 63(2):279–81
Endothelial activation in the pathogenesis of Kawasaki disease. Leung DY, et al. **Trans Assoc Am Physicians** 1989; 102:131–8
Excessive vulnerability of herpes–infected endothelium to lymphokine–activated lymphocytes: a possible role in lethal viral pneumonitis following bone marrow transplantation. Vercellotti GM, et al. **Trans Assoc Am Physicians** 1988; 101:310–3
Persistent expression of donor antigens in endothelium of long–standing skin xenografts and vulnerability to destruction by specific antibodies. Bogman MJ, et al.
Transplant Proc 1987 Feb;19(1 Pt 1):205–7
Class II antigen expression on vascular endothelium of the graft in rat heart transplantation. Bouwman E, et al.
Transplant Proc 1987 Feb;19(1 Pt 1):198–9
Class II major histocompatibility complex antigens on cardiac endothelium: an early biopsy marker of rejection in the transplanted human heart. Caforio AL, et al.
Transplant Proc 1990 Aug;22(4):1830–3
Removal of IgM anti–endothelial antibodies results in prolonged cardiac xenograft survival. Fischel RJ, et al.
Transplant Proc 1990 Jun;22(3):1077–8
A new lymphokine different from interferon–gamma induces major histocompatibility complex class II antigen expression. Groenewegen G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):190–1
Characterization of two monoclonal antibodies directed against an adhesion molecule on human endothelial cells. Leeuwenberg JF, et al. **Transplant Proc** 1990 Aug; 22(4):1991–3
Granulocyte–macrophage colony–stimulating factor diminishes interferon–gamma–induced class I major histocompatibility complex antigen expression by endothelium with prostacyclin as intermediary.
Leszczynski D, et al. **Transplant Proc** 1990 Feb;22(1):132
Protein kinase C is crucial in signal transduction during interferon–gamma induction in endothelial cells. Mattila P, et al. **Transplant Proc** 1990 Feb;22(1):130
Endothelial cell proteoglycans in xenotransplantation. Platt JL, et al. **Transplant Proc** 1990 Jun;22(3):1066
In vitro human versus murine xenogeneic reactions. Haisch CE, et al. **Transplantation** 1990 Sep;50(3):528–30
Inducible expression of an endothelial cell antigen on murine myocardial vasculature in association with interstitial cellular infiltration. Leppink DM, et al. **Transplantation** 1989 Nov;48(5):874–7
Induction of antibody–dependent cellular cytotoxicity against endothelial cells by renal transplantation. Miltenburg AM, et al. **Transplantation** 1989 Oct;48(4):681–8
DR antigen expression on vascular endothelium and duct epithelium in fresh or cultured human fetal pancreata in the presence of gamma–interferon. Motojima K, et al.
Transplantation 1989 Dec;48(6):1022–6
An ELISA assay for xenoreactive natural antibodies. Platt JL, et al. **Transplantation** 1990 May;49(5):1000–1
Evidence that the serum of moderate–to–severely rejecting heart transplant patients induces peripheral blood mononuclear cells to injure endothelial cells. Shaddy RE, et al. **Transplantation** 1990 May;49(5):1013–5
The vascular endothelium as target of humoral auto–reactivity in myocarditis and rejection. Maisch B, et al. **Z Kardiol** 1989;78 Suppl 6:95–9 (16 ref.)
Terminal complement complex and endothelial cells. Suttorp N, et al. **Z Kardiol** 1989;78 Suppl 6:140–2
[The relationship of the macrophage system to the blood vessel wall and atherogenesis] Massmann J, et al.
Zentralbl Allg Pathol 1989;135(6):577–90 (Eng. Abstr.) (Ger)
[Studies on von Willebrand factor antigen in endothelial cells and sera of patients with connective tissue diseases] Kida S. **Ryumachi** 1990 Feb;30(1):17–25 (Eng. Abstr.) (Jpn)
[Immunoperoxidase study of the intimal antigens of the aorta and other large arteries] Chumachenko PV. **Arkh Patol** 1989;51(10):77–80 (Eng. Abstr.) (Rus)
[Interferon production by primary culture of human endothelial cells] Shcheglovitova ON, et al.
Biull Eksp Biol Med 1989 Nov;108(11):580–3 (Eng. Abstr.) (Rus)

INJURIES

Assessment of haemolytic and thromboembolic potentials—from CFD studies of Starr–Edwards cardiac valve prostheses. Tansley GD, et al.
Australas Phys Eng Sci Med 1989 Sep;12(3):121–7
Influence of applied stress on mitotic response of arteries to injury with a balloon catheter: quantitative study in rat thoracic aorta. Capron L, et al. **Cardiovasc Res** 1989 Nov; 23(11):941–8
Long–term follow–up of catheter–induced intimal injury from routine coronary angiography in moderately hypercholesterolemic minipigs. Pap JM.
Cathet Cardiovasc Diagn 1990 Jun;20(2):139–49
Effect of controlled adventitial heparin delivery on smooth muscle cell proliferation following endothelial injury. Edelman ER, et al. **Proc Natl Acad Sci U S A** 1990 May; 87(10):3773–7
Detection of acute endothelial injury with intravenous radionuclide. Greenstein BD, et al. **Surg Forum** 1978; 29:476–8
Relationship between vessel wall 13–HODE synthesis and vessel wall thrombogenicity following injury: influence of salicylate and dipyridamole treatment. Weber E, et al.
Thromb Res 1990 Feb 1;57(3):383–92

INNERVATION

The effect of perivascular denervation on endothelium–dependent relaxation to acetylcholine. Miller ME, et al. **Artery** 1990;17(5):233–47

METABOLISM

The mechanism of the stimulatory effect of kallikrein on prostacyclin production in vascular endothelial cells. Murota S, et al. **Adv Exp Med Biol** 1989;247A:243–7
Increased vesicular transport and decreased mitochondrial content in blood–brain barrier endothelial cells during experimental autoimmune encephalomyelitis. Claudio L, et al. **Am J Pathol** 1989 Dec;135(6):1157–68
Dehydroepiandrosterone and related steroids induce multilamellar lipid structures in cultured human endothelial cells. Sholley MM, et al. **Am J Pathol** 1990 May; 136(5):1187–99
Flow stimulates endothelial cells to release a nitrovasodilator that is potentiated by reduced thiol. Cooke JP, et al.
Am J Physiol 1990 Sep;259(3 Pt 2):H804–12
Increase in endothelial cell glutathione and precursor amino acid uptake by diethyl maleate and hyperoxia. Deneke SM, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L265–71
Release of superoxide–dependent relaxing factor(s) from endothelial cells. Hong KW, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1340–6
cAMP attenuates autacoid release from endothelial cells: relation to internal calcium. Lückhoff A, et al.
Am J Physiol 1990 Apr;258(4 Pt 2):H960–6
Glomerular endothelial cells respond to calcium–mobilizing agonists with release of EDRF. Marsden PA, et al.
Am J Physiol 1990 May;258(5 Pt 2):F1295–303
Energetic response of coronary endothelial cells to hypoxia. Mertens S, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H689–94
Isoproterenol reduces thrombin–induced pulmonary endothelial permeability in vitro. Minnear FL, et al.
Am J Physiol 1989 Nov;257(5 Pt 2):H1613–23
Translocation of protein kinase C is associated with inhibition of 5–HT uptake by cultured endothelial cells. Myers CL, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L253–8
Erythrocytes fail to induce glutathione in response to diethyl maleate or hyperoxia. Phelps DT, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L272–6
Angiotensin II binding sites in aortic endothelium of domestic fowl. Stallone JN, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):R777–82
Effect of endothelial cell denudation on fatty acid metabolism by rabbit aorta. Takasaki I, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 2):H442–7
Contraction of diabetic rabbit aorta caused by endothelium–derived PGH2–TxA2. Tesfamariam B, et al.
Am J Physiol 1989 Nov;257(5 Pt 2):H1327–33
Endothelial cell proteoglycans: possible mediators of vascular responses to injury. Benitz WE, et al.
Am J Respir Cell Mol Biol 1990 May;2(5):407–8 (7 ref.)
Expression of a prokaryotic gene in cultured lung endothelial cells after lipofection with a plasmid vector. Brigham KL, et al. **Am J Respir Cell Mol Biol** 1989 Aug;1(2):95–100
Phorbol ester–induced inhibition of the beta–adrenergic system in pulmonary endothelium: role of a pertussis toxin–sensitive protein. Newman KB, et al.
Am J Respir Cell Mol Biol 1989 Dec;1(6):517–23
GTP gamma S increases thrombin–mediated inositol trisphosphate accumulation in permeabilized human endothelial cells. Brock TA, et al. **Am Rev Respir Dis** 1989 Oct;140(4):1121–5
Oxidant–induced endothelial leak correlates with decreased cellular energy levels. Holman RG, et al.
Am Rev Respir Dis 1990 Jan;141(1):134–40
Direct cytotoxicity of polymorphonuclear leukocyte granule proteins to human lung–derived cells and endothelial cells.

Okrent DG, et al. **Am Rev Respir Dis** 1990 Jan; 141(1):179–85

Receptors on pulmonary endothelial cells. Ryan US. **Am Rev Respir Dis** 1990 Mar;141(3 Pt 2):S132–6 (34 ref.)

Collagen and fibronectin gene expression in cultured endothelial cells. Myers JC, et al. **Ann N Y Acad Sci** 1990; 580:120–31

Evaluation of arterialized vein graft permeability with Evans blue dye and iodine 125–labeled albumin. Finck SJ, et al. **Ann Thorac Surg** 1989 Nov;48(5):646–50

Biosynthesis and metabolism of endothelium–derived nitric oxide. Ignarro LJ. **Annu Rev Pharmacol Toxicol** 1990; 30:535–60 (102 ref.)

Substrate specificity of the agonist–stimulated release of polyunsaturated fatty acids from vascular endothelial cells. Rosenthal MD, et al. **Arch Biochem Biophys** 1989 Nov 1; 274(2):590–600

Vasoactive mediators derived from the endothelium. Botting R, et al. **Arch Mal Coeur** 1989 Nov;82 Spec No 4:11–4 (30 ref.)

Interleukin–1 stimulates prostacyclin production by cultured human endothelial cells by increasing arachidonic acid mobilization and conversion. Breviario F, et al. **Arteriosclerosis** 1990 Jan–Feb;10(1):129–34

Macromolecular transport across arterial and venous endothelium in rats. Studies with Evans blue–albumin and horseradish peroxidase. Chuang PT, et al. **Arteriosclerosis** 1990 Mar–Apr;10(2):188–97

Effect of growth factors on human vascular endothelial cell prostacyclin production. Ristimäki A, et al. **Arteriosclerosis** 1990 Jul–Aug;10(4):653–7

Roles of calcium, cyclic nucleotides, and protein kinase C in regulation of endothelial permeability. Yamada Y, et al. **Arteriosclerosis** 1990 May–Jun;10(3):410–20

Activation of endothelial cells induces platelet thrombus formation on their matrix. Studies of new in vitro thrombosis model with low molecular weight heparin as anticoagulant. Zwaginga JJ, et al. **Arteriosclerosis** 1990 Jan–Feb;10(1):49–61

The internalization and release of heparins by cultured endothelial cells: the process is cell source, heparin source, time and concentration dependent. Hiebert LM, et al. **Artery** 1990;17(2):107–18

The endogenous nitrovasodilator produced by the vascular endothelium. Dusting GJ, et al. **Aust N Z J Med** 1989 Oct;19(5):493–8 (39 ref.)

Aggregating platelets increase intracellular calcium in endothelial cells through release of adenine nucleotides. Ashmore RC, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):909–15

The brain–type glucose transporter mRNA is specifically expressed at the blood–brain barrier. Boado RJ, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):174–9

Raised plasma endothelin–I concentration following cold pressor test. Fyhrquist F, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):217–21

Long–term phorbol ester treatment dissociates phospholipase D activation from phosphoinositide hydrolysis and prostacyclin synthesis in endothelial cells stimulated with bradykinin. Martin TW, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):319–26

Rapid release of endothelin and ATP from isolated aortic endothelial cells exposed to increased flow. Milner P, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):649–56

Shear stress increases inositol trisphosphate levels in human endothelial cells. Nollert MU, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):281–7

Identification and characterization of endothelin converting activity in cultured bovine endothelial cells. Ohnaka K, et al. **Biochem Biophys Res Commun** 1990 May 16; 168(3):1128–36

Decreased thrombin affinity of cell–surface thrombomodulin following treatment of cultured endothelial cells with beta–D–xyloside. Parkinson JF, et al. **Biochem Biophys Res Commun** 1990 May 31;169(1):177–83

Structure of human monocyte chemotactic protein gene and its regulation by TPA. Shyy YJ, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):346–51

Autocrine effect of endothelin on DNA synthesis in human vascular endothelial cells. Takagi Y, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):537–43

Rapid Ca2+ refilling system of intracellular store(s) in human vascular endothelial cells. Takata S, et al. **Biochem Biophys Res Commun** 1990 Mar 30;167(3):933–40

The effects of the endothelin family peptides on cultured osteoblastic cells from rat calvariae. Takuwa Y, et al. **Biochem Biophys Res Commun** 1990 Aug 16; 170(3):998–1005

Purification of an endothelin receptor from human placenta. Wada K, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):251–7

Interleukin 1 increases the production of endothelin–1 by cultured endothelial cells. Yoshizumi M, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):324–9

Recombinant gene expression in human umbilical vein endothelial cells transduced by retroviral vectors. Zwiebel JA, et al. **Biochem Biophys Res Commun** 1990 Jul 16; 170(1):209–13

Protein kinase C activation alters the sensitivity of agonist–stimulated endothelial–cell prostacyclin production to intracellular Ca2+. Carter TD, et al. **Biochem J** 1989 Sep 1;262(2):431–7

Rapid receptor–mediated catabolism of 125I–atrial natriuretic factor by vascular endothelial cells. Johnson GR, et al. **Biochem J** 1990 Jun 15;268(3):771–6

Endothelial inositol phosphate generation and prostacyclin production in response to G–protein activation by AlF4–. Magnússon MK, et al. **Biochem J** 1989 Dec 15; 264(3):703–11

Aortic endothelial cells synthesize a large chondroitin sulphate proteoglycan capable of binding to hyaluronate. Morita H, et al. **Biochem J** 1990 Jan 1;265(1):61–8

Binding of tissue plasminogen activator to human aortic endothelial cells. Sanzo MA, et al. **Biochem J** 1990 Jul 15;269(2):475–82

Cholera toxin modulation of angiotensin II–stimulated inositol phosphate production in cultured vascular smooth muscle cells. Socorro L, et al. **Biochem J** 1990 Feb 1; 265(3):799–807

Endothelin stimulates phosphatidylinositol hydrolysis and DNA synthesis in brain capillary endothelial cells. Vigne P, et al. **Biochem J** 1990 Mar 1;266(2):415–20

A 48 kDa collagen–binding phosphoprotein isolated from bovine aortic endothelial cells interacts with the collagenous domain, but not the globular domain, of collagen type IV. Yannariello–Brown J, et al. **Biochem J** 1990 Jan 15;265(2):383–92

Intravascular big endothelin increases circulating levels of endothelin–1 and prostanoids in the rabbit. D'Orléans–Juste P, et al. **Biochem Pharmacol** 1990 May 1;39(9):R21–2

Pathophysiological significance of integrin expression by vascular endothelial cells. van Mourik JA, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):233–9

Regulation of eicosanoid synthesis in microvessel endothelium: glucocorticoids do not affect arachidonyl CoA synthetase activity. Gerritsen ME, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):174–9

Cyclic AMP regulation of endothelial cell triacylglycerol turnover, 13–hydroxyoctadecadienoic acid (13–HODE) synthesis and endothelial cell thrombogenicity. Haas TA, et al. **Biochim Biophys Acta** 1990 Feb 19;1051(2):174–8

Selenium deficiency inhibits prostacyclin release and enhances production of platelet activating factor by human endothelial cells. Hampel G, et al. **Biochim Biophys Acta** 1989 Nov 28;1006(2):151–8

DDAVP–induced release of von Willebrand factor from endothelial cells in vitro: the effect of plasma and blood cells. Hashemi S, et al. **Biochim Biophys Acta** 1990 Apr 9;1052(1):63–70

Ca2(+)–dependent synthesis of prostaglandin I2 and mobilization of arachidonic acid from phospholipids in cultured endothelial cells permeabilized with saponin. Martin TW, et al. **Biochim Biophys Acta** 1990 Sep 1; 1054(2):159–68

Interactions of high–density lipoprotein 3 with brain capillary endothelial cells. Martin–Nizard F, et al. **Biochim Biophys Acta** 1989 Oct 17;1005(3):201–8

Competitive inhibition by glucose of myo–inositol incorporation into cultured porcine aortic endothelial cells. Olgemöller B, et al. **Biochim Biophys Acta** 1990 Apr 9; 1052(1):47–52

Oligomers of prostaglandin B1 inhibit arachidonic acid mobilization in human neutrophils and endothelial cells. Rosenthal MD, et al. **Biochim Biophys Acta** 1989 Dec 18; 1006(3):278–86

Studies on the interaction between apolipoprotein A–II–enriched HDL3 and cultured bovine aortic endothelial (BAE) cells. Vadiveloo PK, et al. **Biochim Biophys Acta** 1990 Jul 16;1045(2):135–41

Specific binding of vasculotropin to bovine brain capillary endothelial cells. Plouet J, et al. **Biochimie** 1990 Jan; 72(1):51–5

A linear amino acid sequence involved in the interaction of t–PA with its endothelial cell receptor. Beebe DP, et al. **Blood** 1989 Nov 1;74(6):2034–7

Molecular studies of von Willebrand disease: reduced von Willebrand factor biosynthesis, storage, and release in endothelial cells derived from patients with type I von Willebrand disease. Ewenstein BM, et al. **Blood** 1990 Apr 1;75(7):1466–72

Differential regulation by cytokines of constitutive and stimulated secretion of von Willebrand factor from endothelial cells. Paleolog EM, et al. **Blood** 1990 Feb 1; 75(3):688–95

Human endothelial cells synthesize, process, and secrete fibronectin molecules bearing an alternatively spliced type III homology (ED1). Peters JH, et al. **Blood** 1990 May 1;75(9):1801–8

Human leukocyte cathepsin G and elastase specifically suppress thrombin–induced prostacyclin production in human endothelial cells. Weksler BB, et al. **Blood** 1989 Oct; 74(5):1627–34

Regulation of endothelial tissue plasminogen activator and plasminogen activator inhibitor type 1 synthesis by diacylglycerol, phorbol ester, and thrombin. Grulich–Henn J, et al. **Blut** 1990 Jul;61(1):38–44

Pro–inflammatory mediators induce sustained release of prostaglandin E2 from human dermal microvascular endothelial cells. Bull HA, et al. **Br J Dermatol** 1990 Feb; 122(2):153–64

Collagen cross–link synthesis in cultured vascular endothelium. Levene CI, et al. **Br J Exp Pathol** 1989 Dec; 70(6):621–6

Dietary fish lipids do not diminish platelet adhesion to subendothelium. Owens MR, et al. **Br J Haematol** 1990 May;75(1):82–5

Comparison of P2 receptors of aortic endothelial cells with those of adrenal medulla non–chromaffin cells. Allsup DJ, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:795P

Effects of changes in extra– and intracellular K+ on the endothelial production of prostacyclin. Boeynaems JM, et al. **Br J Pharmacol** 1989 Nov;98(3):966–72

Effects of amiloride analogues on the production of prostacyclin by aortic endothelial cells. Boeynaems JM, et al. **Br J Pharmacol** 1989 Nov;98(3):973–81

Chronic exposure of cultured endothelial cells to eicosapentaenoic acid potentiates the release of endothelium–derived relaxing factor(s). Boulanger C, et al. **Br J Pharmacol** 1990 Jan;99(1):176–80

Local formation of angiotensin II in the rat aorta: effect of endothelium. Eglème C, et al. **Br J Pharmacol** 1990 Jun; 100(2):237–40

Modulation of arterial endothelial permeability: studies on an in vitro model. Gudgeon JR, et al. **Br J Pharmacol** 1989 Dec;98(4):1267–74

Release of endothelium–derived relaxing factor from pig cultured aortic endothelial cells, as assessed by changes in endothelial cell cyclic GMP content, is inhibited by a phorbol ester. Smith JA, et al. **Br J Pharmacol** 1990 Mar; 99(3):565–71

Myo–inositol transport into endothelial cells derived from nervous system microvessels. Kollros PE, et al. **Brain Res** 1990 Mar 19;511(2):259–64

Neuropeptide degradation by large vessel and microvessel–derived endothelial cells in vitro: cell surface catabolism of thyrotropin releasing hormone (TRH). Rozental JM, et al. **Brain Res** 1989 Oct 16;499(2):397–401

Metabolism of 1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine (MPTP) by bovine brain microvessel endothelial cells. Scriba GK, et al. **Brain Res** 1989 Oct 30;501(1):175–8

Epidermal growth factor receptor expression in demented and aged human brain. Styren SD, et al. **Brain Res** 1990 Apr 2;512(2):347–52

Cerebral microvessel endothelium is producing endothelin. Yoshimoto S, et al. **Brain Res** 1990 Feb 5;508(2):283–5

Neutrophil–mediated increased permeability of microcarrier–cultured endothelial monolayers: a model for the in vitro study of neutrophil–dependent mediators of vasopermeability. Killackey JJ, et al. **Can J Physiol Pharmacol** 1990 Jul;68(7):836–44

Blood–brain barrier permeability of human gliomas as determined by quantitation of cytoplasmic vesicles of the capillary endothelium and scintigraphic findings. Kohn S, et al. **Cancer Invest** 1989;7(4):313–21

Direct expression cloning of vascular cell adhesion molecule 1, a cytokine–induced endothelial protein that binds to lymphocytes. Osborn L, et al. **Cell** 1989 Dec 22; 59(6):1203–11

Imaging cytoplasmic free calcium in histamine stimulated endothelial cells and in fMet–Leu–Phe stimulated neutrophils [published erratum appears in Cell Calcium 1990 May;11(5):following 384] Jacob R. **Cell Calcium** 1990 Feb–Mar;11(2–3):241–9

Enhanced adhesion of polymorphonuclear leukocytes to anoxic cultured vascular endothelium. Budd JM, et al. **Cell Signal** 1990;2(3):305–10

Bradykinin–induced changes in phosphoinositides, inositol phosphate production and intracellular free calcium in cultured bovine aortic endothelial cells. Myers DE, et al. **Cell Signal** 1989;1(4):335–43

Localization of vasopressin, serotonin and angiotensin II in endothelial cells of the renal and mesenteric arteries of the rat. Lincoln J, et al. **Cell Tissue Res** 1990 Feb;259(2):341–4

Blood–tissue exchange via transport and transformation by capillary endothelial cells. Bassingthwaighte JB, et al. **Circ Res** 1989 Oct;65(4):997–1020

Triggerlike stimulation of cholesterol accumulation and DNA and extracellular matrix synthesis induced by atherogenic serum or low density lipoprotein in cultured cells. Orekhov AN, et al. **Circ Res** 1990 Feb;66(2):311–20

Substance P is released from the endothelium of normal and capsaicin–treated rat hind–limb vasculature, in vivo, by increased flow. Ralevic V, et al. **Circ Res** 1990 May; 66(5):1178–83

Low density lipoprotein transport across a microvascular endothelial barrier after permeability is increased. Rutledge JC, et al. **Circ Res** 1990 Feb;66(2):486–95

A sensitive radioimmunoassay measuring endothelin–like immunoreactivity in human plasma: comparison of levels in patients with essential hypertension and normotensive control subjects. Davenport AP, et al. **Clin Sci** 1990 Mar; 78(3):261–4

Modification of prostaglandin synthesis in washed human platelets and cultured bovine aortic endothelial cells by glycosylated low density lipoprotein. Ishii H, et al. **Diabetes Res** 1989 Dec;12(4):177–82

Modification of prostacyclin–stimulatory activity in sera by glucose, insulin, low density lipoprotein, linoleic acid and linoleic acid hydroperoxide. Umeda F, et al. **Diabetes Res Clin Pract** 1990 Jan;8(2):137–44

Endothelial lesions, dietary composition and lipid peroxidation. Stam H, et al. **Eicosanoids** 1989;2(1):1–14 (132 ref.)

Translocation of bFGF to the nucleus is G1 phase cell cycle specific in bovine aortic endothelial cells. Baldin V, et al.

EMBO J 1990 May;9(5):1511-7
Identification and cloning of two species of cadherins in bovine endothelial cells. Liaw CW, et al. EMBO J 1990 Sep;9(9):2701-8
Isolation and characterization of a newly identified endothelial cell mitogen produced by AtT-20 cells. Plouët J, et al. EMBO J 1989 Dec 1;8(12):3801-6
Transcapillary permeability and subendothelial distribution of endothelial and amniotic fluid insulin-like growth factor binding proteins in the rat heart. Bar RS, et al. Endocrinology 1990 Sep;127(3):1078-86
Insulin differentially alters transcapillary movement of intravascular IGFBP-1, IGFBP-2 and endothelial cell IGF-binding proteins in the rat heart. Bar RS, et al. Endocrinology 1990 Jul;127(1):497-9
Multiple domains are involved in the interaction of endothelial cell thrombospondin with fibronectin. Dardik R, et al. Eur J Biochem 1989 Nov 20;185(3):581-8
Endothelial function can be preserved during cryo-storage of human saphenous vein. Passani SL, et al. Eur J Cardiothorac Surg 1988;2(4):233-6
Differential binding of the lectins Griffonia simplicifolia I and Lycopersicon esculentum to microvascular endothelium: organ-specific localization and partial glycoprotein characterization. Porter GA, et al. Eur J Cell Biol 1990 Feb;51(1):85-95
Plasmalemmal vesicles are involved in transendothelial transport of albumin, lysosomal enzymes and mannose 6-phosphate receptor fragments in capillary endothelium. Willemsen R, et al. Eur J Cell Biol 1990 Apr;51(2):235-41
Prostanoid production by rat aortic endothelial cells by bradykinin and histamine. Cole OF, et al. Eur J Pharmacol 1989 Oct 10;169(2-3):307-12
Effect of glucocorticoids on the binding of atrial natriuretic peptide to endothelial cells. Lanier-Smith KL, et al. Eur J Pharmacol 1990 Mar 13;178(1):105-9
The generation of L-arginine in endothelial cells is linked to the release of endothelium-derived relaxing factor. Mitchell JA, et al. Eur J Pharmacol 1990 Feb 6; 176(2):253-4
Pharmacological modulation of 86Rb efflux from aortic endothelial cells. Ramboer I, et al. Eur J Pharmacol 1989 Nov 21;171(2-3):251-4
Lipopolysaccharide increases release of a nitric oxide-like factor from endothelial cells. Salvemini D, et al. Eur J Pharmacol 1989 Nov 14;171(1):135-6
Effect of calcium on endothelium-derived relaxing factor formation and cGMP levels in endothelial cells. Schmidt K, et al. Eur J Pharmacol 1989 Nov 7;170(3):157-66
Influence of transluminal angioplasty on the prostanoid release from the arterial wall. Mattsson E, et al. Eur J Vasc Surg 1990 Feb;4(1):11-7
Inhibition of thrombin on subendothelium. Studies on rabbit aorta, ex vivo. Nydahl S, et al. Eur Surg Res 1989; 21(5):287-95
Characterization and differential expression of an endothelial cell-specific surface antigen in continuous and sinusoidal endothelial, in skin vascular lesions and in vitro. Goerdt S, et al. Exp Cell Biol 1989;57(4):185-92
Thrombin mitogenic responses and protein phosphorylation are different in cultured human endothelial cells derived from large and microvessels. Dupuy E, et al. Exp Cell Res 1989 Dec;185(2):363-72
c-fos and c-myc expression in human endothelial cells as a function of different culture conditions. Lampugnani MG, et al. Exp Cell Res 1990 Feb;186(2):381-4
Transcellular transport of angiotensin II through a cultured arterial endothelial monolayer. Mineo C, et al. Exp Cell Res 1990 Sep;190(1):99-103
Phosphoinositide metabolism and prostacyclin formation in retinal microvascular endothelium: stimulation by adenine nucleotides. Robertson PL, et al. Exp Eye Res 1990 Jan; 50(1):37-44
Ion channels and regulation of intracellular calcium in vascular endothelial cells. Adams DJ, et al. FASEB J 1989 Oct;3(12):2389-400 (71 ref.)
Calcium-dependent nitric oxide synthesis in endothelial cytosol is mediated by calmodulin. Busse R, et al. FEBS Lett 1990 Jun 4;265(1-2):133-6
Specific receptors for endothelin-3 in cultured bovine endothelial cells and its cellular mechanism of action. Emori T, et al. FEBS Lett 1990 Apr 24;263(2):261-4
High concentrations of low density lipoprotein decrease basement membrane-associated heparan sulfate proteoglycan in cultured endothelial cells. Olgemöller B, et al. FEBS Lett 1990 May 7;264(1):37-9
Atrial natriuretic factor recognizes two receptor subtypes in endothelial cells cultured from bovine pulmonary artery. Redmond EM, et al. FEBS Lett 1990 Aug 20;269(1):157-62
Activation of protein kinases A and C increase lymphocyte penetration through endothelial monolayers. Renkonen R. FEBS Lett 1990 Jul 2;267(1):89-92
Histamine and bradykinin stimulate the phosphoinositide turnover in human umbilical vein endothelial cells via different G-proteins. Voyno-Yasenetskaya TA, et al. FEBS Lett 1989 Dec 18;259(1):67-70
Glutathione metabolism of human vascular endothelial cells under peroxidative stress. Jongkind JF, et al. Free Radic Biol Med 1989;7(5):507-12
Endothelial cells as a source of oxygen-free radicals. An ESR study. Arroyo CM, et al. Free Radic Res Commun 1990; 9(3-6):287-96
(-)-Bay K 8644 liberates a contractant factor from the endothelium of the rat aorta. Lawson K, et al. Fundam Clin Pharmacol 1989;3(6):687-93
Thrombogenicity of total parenteral nutrition solutions: II. Effect on induction of endothelial cell procoagulant activity. Wakefield A, et al. Gastroenterology 1989 Nov; 97(5):1220-8
Simultaneous release of endothelium-derived relaxing and contracting factors induced by noradrenaline in normotensive rats. Nigro D, et al. Gen Pharmacol 1990; 21(4):443-6
Endothelial cells synthesize basic fibroblast growth factor and transforming growth factor beta. Hannan RL, et al. Growth Factors 1988;1(1):7-17
Rat brain capillary endothelial cells express functional PDGF B-type receptors. Smits A, et al. Growth Factors 1989; 2(1):1-8
Increased macrophage procoagulant activity but normal endothelial thrombomodulin in rabbits fed an atherogenic diet. Semeraro N, et al. Haemostasis 1990;20(1):54-61
Control of regional blood flow by endothelium-derived nitric oxide. Gardiner SM, et al. Hypertension 1990 May; 15(5):486-92
Prostaglandin H2 may be the endothelium-derived contracting factor released by acetylcholine in the aorta of the rat. Kato T, et al. Hypertension 1990 May; 15(5):475-81
Transendothelial macromolecular transport in the aorta of spontaneously hypertensive rats. Wu CH, et al. Hypertension 1990 Aug;16(2):154-61
Membrane proteins involved in phagocyte adherence to endothelium. Carlos TM, et al. Immunol Rev 1990 Apr; 114:5-28 (122 ref.)
Cytokines as communication signals between leukocytes and endothelial cells. Mantovani A, et al. Immunol Today 1989 Nov;10(11):370-5 (89 ref.)
Effects of flow on the synthesis and release of fibronectin by endothelial cells. Gupte A, et al. In Vitro Cell Dev Biol 1990 Jan;26(1):57-60
Secretion of tissue-type plasminogen activator and plasminogen activator inhibitor by Rickettsia conorii- and Rickettsia rickettsii-infected cultured endothelial cells. Drancourt M, et al. Infect Immun 1990 Aug;58(8):2459-63
Cerebral endothelial cell-derived laminin promotes the outgrowth of neurites in CNS neuronal cultures. Pákáski M, et al. Int J Dev Neurosci 1990;8(2):193-8
High affinity binding sites for Perindopril a new inhibitor of angiotensin-I-converting enzyme (ACE) in the rabbit kidney: possible evidence for localization of ACE in endothelial structures and in glomerular mesangium. Morin JP, et al. Int J Tissue React 1989;11(2):81-92
Retinal pigment epithelium cells can influence endothelial cell plasminogen activators. Moisseiev J, et al. Invest Ophthalmol Vis Sci 1990 Jun;31(6):1070-8
Aldose reductase and pericyte-endothelial cell contacts in retina and optic nerve [published erratum appears in Invest Opthalmol Vis Sci 1990 Apr;31(4):782-3] Robison WG Jr, et al. Invest Ophthalmol Vis Sci 1989 Nov;30(11):2293-9
Permeability of human endothelial monolayers: effect of vasoactive agonists and cAMP. Casnocha SA, et al. J Appl Physiol 1989 Nov;67(5):1997-2005
Chromatographic demonstration of reversible changes in endothelial permeability. Haselton FR, et al. J Appl Physiol 1989 Nov;67(5):2032-48
In vivo visualization of oxyradical-dependent photoemission during endothelium-granulocyte interaction in microvascular beds treated with platelet-activating factor. Suematsu M, et al. J Biochem (Tokyo) 1989 Aug; 106(2):355-60
Interaction of single-chain urokinase-type plasminogen activator with human endothelial cells. Barnathan ES, et al. J Biol Chem 1990 Feb 15;265(5):2865-72
A polypeptide factor produced by fibrosarcoma cells that induces endothelial tissue factor and enhances the procoagulant response to tumor necrosis factor/cachectin. Clauss M, et al. J Biol Chem 1990 Apr 25;265(12):7078-83
The regulation of tissue factor mRNA in human endothelial cells in response to endotoxin or phorbol ester. Crossman DC, et al. J Biol Chem 1990 Jun 15;265(17):9782-7
Tumor necrosis factor-alpha induction of novel gene products in human endothelial cells including a macrophage-specific chemotaxin. Dixit VM, et al. J Biol Chem 1990 Feb 15;265(5):2973-8
Carmustine augments the effects of tert-butyl hydroperoxide on calcium signaling in cultured pulmonary artery endothelial cells. Elliott SJ, et al. J Biol Chem 1990 Jan 5;265(1):103-7
Heparin-binding growth factor-1 stimulation of human endothelial cells induces platelet-derived growth factor A-chain gene expression. Gay CG, et al. J Biol Chem 1990 Feb 25;265(6):3284-92
Primary structure of endoglin, an RGD-containing glycoprotein of human endothelial cells. Gougos A, et al. J Biol Chem 1990 May 25;265(15):8361-4
The histamine degradative uptake pathway in human vascular endothelial cells and skin fibroblasts is dependent on extracellular Na+ and Cl-. Haddock RC, et al. J Biol Chem 1990 Aug 25;265(24):14395-401
Identification and characterization of human endothelial cell membrane binding sites for tissue plasminogen activator and urokinase. Hajjar KA, et al. J Biol Chem 1990 Feb 15;265(5):2908-16
An abundant transcript induced in differentiating human endothelial cells encodes a polypeptide with structural similarities to G-protein-coupled receptors. Hla T, et al. J Biol Chem 1990 Jun 5;265(16):9308-13
Modulation of the insulin growth factor II/mannose 6-phosphate receptor in microvascular endothelial cells by phorbol ester via protein kinase C. Hu KQ, et al. J Biol Chem 1990 Aug 15;265(23):13864-70
Functional analysis of the endothelin-1 gene promoter. Evidence for an endothelial cell-specific cis-acting sequence. Lee ME, et al. J Biol Chem 1990 Jun 25; 265(18):10446-50
Ethanolamine metabolism in cultured bovine aortic endothelial cells. Lipton BA, et al. J Biol Chem 1990 May 5;265(13):7195-201
Transglutaminase-mediated cross-linking of fibrinogen by human umbilical vein endothelial cells. Martinez J, et al. J Biol Chem 1989 Dec 5;264(34):20502-8
[3H]bumetanide binding in vascular endothelial cells. Quantitation of Na-K-Cl cotransporters. O'Donnell ME. J Biol Chem 1989 Dec 5;264(34):20326-30
The A20 cDNA induced by tumor necrosis factor alpha encodes a novel type of zinc finger protein. Opipari AW Jr, et al. J Biol Chem 1990 Sep 5;265(25):14705-8
Interaction of wild-type and catalytically inactive mutant forms of tissue-type plasminogen activator with human umbilical vein endothelial cell monolayers. Ramakrishnan V, et al. J Biol Chem 1990 Feb 15;265(5):2755-62
Binding of tissue-type plasminogen activator with human endothelial cell monolayers. Characterization of the high affinity interaction with plasminogen activator inhibitor-1. Russell ME, et al. J Biol Chem 1990 Feb 15;265(5):2569-75
Structural determinants of the factor IX molecule mediating interaction with the endothelial cell binding site are distinct from those involved in phospholipid binding. Ryan J, et al. J Biol Chem 1989 Dec 5;264(34):20283-7
Regulation of endothelial cell coagulant properties. Modulation of tissue factor, plasminogen activator inhibitors, and thrombomodulin by phorbol 12-myristate 13-acetate and tumor necrosis factor [published erratum appears in J Biol Chem 1990 Aug 25;265(24):14696] Scarpati EM, et al. J Biol Chem 1989 Dec 5; 264(34):20705-13
Synthesis and expression of C1 inhibitor by human umbilical vein endothelial cells. Schmaier AH, et al. J Biol Chem 1989 Oct 25;264(30):18173-9
Synthesis of platelet-activating factor by endothelial cells. The role of G proteins. Whatley RE, et al. J Biol Chem 1990 Sep 15;265(26):15550-9
Characterization of muscarinic cholinergic receptors on the endothelium and the smooth muscle of the rabbit thoracic aorta. Tsukahara T, et al. J Cardiovasc Pharmacol 1989 Jun;13(6):870-8
Release of basic fibroblast growth factor-heparan sulfate complexes from endothelial cells by plasminogen activator-mediated proteolytic activity. Saksela O, et al. J Cell Biol 1990 Mar;110(3):767-75
The majority of type 1 plasminogen activator inhibitor associated with cultured human endothelial cells is located under the cells and is accessible to solution-phase tissue-type plasminogen activator. Schleef RR, et al. J Cell Biol 1990 Jan;110(1):155-63
Neurothelin: an inducible cell surface glycoprotein of blood-brain barrier-specific endothelial cells and distinct neurons. Schlosshauer B, et al. J Cell Biol 1990 Apr; 110(4):1261-74
Basic fibroblast growth factor expression in human omental microvascular endothelial cells and the effect of phorbol ester. Bikfalvi A, et al. J Cell Physiol 1990 Jul;144(1):151-8
Thrombin-induced prostacyclin biosynthesis in human endothelium: role of guanine nucleotide regulatory proteins in stimulus/coupling responses. Garcia JG, et al. J Cell Physiol 1990 Jan;142(1):186-93
Bradykinin induces superoxide anion release from human endothelial cells. Holland JA, et al. J Cell Physiol 1990 Apr;143(1):21-5
Regulation of alpha-smooth muscle actin and other polypeptides in proliferating and density-arrested vascular smooth muscle cells. Liau G, et al. J Cell Physiol 1990 Feb;142(2):236-46
Expression of simple epithelial cytokeratins in bovine pulmonary microvascular endothelial cells. Patton WF, et al. J Cell Physiol 1990 Apr;143(1):140-9
Adenine nucleotides modulate phosphatidylcholine metabolism in aortic endothelial cells. Pirotton S, et al. J Cell Physiol 1990 Mar;142(3):449-57
Heparin and acidic fibroblast growth factor interact to decrease prostacyclin synthesis in human endothelial cells by affecting both prostaglandin H synthase and prostacyclin synthase. Weksler BB. J Cell Physiol 1990 Mar;142(3):514-22
Differential kinetics of glucose metabolism in porcine retinal and aortic endothelial cells. Olgemöller B, et al. J Clin Chem Clin Biochem 1990 Jan;28(1):15-7
Adhesion molecules of cultured hematopoietic malignancies. A calcium-dependent lectin is the principle mediator of binding to the high endothelial venule of lymph nodes. Stoolman LM, et al. J Clin Invest 1989 Oct;84(4):1196-205
Elevated glucose promotes generation of endothelium-derived vasoconstrictor prostanoids in rabbit aorta. Tesfamariam B, et al. J Clin Invest 1990 Mar; 85(3):929-32

Endothelial receptor-mediated binding of glucose-modified albumin is associated with increased monolayer permeability and modulation of cell surface coagulant properties. Esposito C, et al. **J Exp Med** 1989 Oct 1; 170(4):1387-407

Release of heparan sulfate from endothelial cells. Implications for pathogenesis of hyperacute rejection. Platt JL, et al. **J Exp Med** 1990 Apr 1;171(4):1363-8

Expression of the multidrug resistance gene product (P-glycoprotein) in human normal and tumor tissues. Cordon-Cardo C, et al. **J Histochem Cytochem** 1990 Sep; 38(9):1277-87

Organization of the cytoskeleton and the focal contacts of bovine aortic endothelial cells cultured on type I and III collagen. Semich R, et al. **J Histochem Cytochem** 1990 Jan; 38(1):59-67

Ultrastructural distribution of terbium across capillary endothelium: detection by electron spectroscopic imaging and electron energy loss spectroscopy. Wagner RC, et al. **J Histochem Cytochem** 1990 Feb;38(2):275-82

Histochemical identification of the vascular endothelial isoenzyme of alkaline phosphatase. Zoellner HF, et al. **J Histochem Cytochem** 1989 Dec;37(12):1893-8

Indirect evidence for an endothelium-derived contracting factor release in aorta of deoxycorticosterone acetate-salt hypertensive rats. Cordellini S, et al. **J Hypertens** 1990 Jan; 8(1):53-60

Multiple pathways of angiotensin production in the blood vessel wall: evidence, possibilities and hypotheses. Dzau VJ. **J Hypertens** 1989 Dec;7(12):933-6 (48 ref.)

Platelet-activating factor stimulates angiotensin converting enzyme activity. Kawaguchi H, et al. **J Hypertens** 1990 Feb;8(2):173-7

Differential regulation of complement factor H and C3 production in human umbilical vein endothelial cells by IFN-gamma and IL-1. Brooimans RA, et al. **J Immunol** 1990 May 15;144(10):3835-40

Phorbol esters increase synthesis of decay-accelerating factor, a phosphatidylinositol-anchored surface protein, in human endothelial cells. Bryant RW, et al. **J Immunol** 1990 Jan 15;144(2):593-8

IFN-gamma and IFN-alpha induce the expression and synthesis of Leu 13 antigen by cultured human endothelial cells. Jaffe EA, et al. **J Immunol** 1989 Dec 15; 143(12):3961-6

3-deazaadenosine inhibits leukocyte adhesion and ICAM-1 biosynthesis in tumor necrosis factor-stimulated human endothelial cells. Jurgensen CH, et al. **J Immunol** 1990 Jan 15;144(2):653-61

Control of granulocyte-macrophage colony-stimulating factor production in normal endothelial cells by positive and negative regulatory elements. Kaushansky K. **J Immunol** 1989 Oct 15;143(8):2525-9

Deacylated lipopolysaccharide inhibits plasminogen activator inhibitor-1, prostacyclin, and prostaglandin E2 induction by lipopolysaccharide but not by tumor necrosis factor-alpha. Riedo FX, et al. **J Immunol** 1990 May 1; 144(9):3506-12

Plasma levels of endothelial-derived haemostatic factors in autoimmune thrombocytopenia and haemolytic anaemia. Nilsson TK, et al. **J Intern Med** 1990 Sep;228(3):249-52

Organ-specific and non-organ-specific lymphocyte receptors for vascular endothelium. Cavender DE. **J Invest Dermatol** 1990 Jun;94(6 Suppl):41S-48S (79 ref.)

Enhanced binding of fibrinogen by the subendothelium after treatment of the rabbit aorta with thrombin. Hatton MW, et al. **J Lab Clin Med** 1990 Mar;115(3):356-64

Differences in the metabolism of oxidatively modified low density lipoprotein and acetylated low density lipoprotein by human endothelial cells: inhibition of cholesterol esterification by oxidatively modified low density lipoprotein. Jialal I, et al. **J Lipid Res** 1989 Oct; 30(10):1561-8

Eicosapentaenoic acid metabolism in brain microvessel endothelium: effect on prostaglandin formation. Yerram NR, et al. **J Lipid Res** 1989 Nov;30(11):1747-57

Bradykinin-induced potassium current in cultured bovine aortic endothelial cells. Colden-Stanfield M, et al. **J Membr Biol** 1990 Jul;116(3):227-38

Endothelial cell production of nitrogen oxides in response to interferon gamma in combination with tumor necrosis factor, interleukin-1, or endotoxin [see comments] Kilbourn RG, et al. **J Natl Cancer Inst** 1990 May 2;82(9):772-6 Comment in: J Natl Cancer Inst 1990 May 2;82(9):726-8.

Does endothelium-derived nitric oxide have a role in cytokine-induced hypotension? [comment] Nathan CF, et al. **J Natl Cancer Inst** 1990 May 2;82(9):726-8 (37 ref.) Comment on: J Natl Cancer Inst 1990 May 2;82(9):772-6.

Choline uptake by cerebral capillary endothelial cells in culture. Estrada C, et al. **J Neurochem** 1990 May; 54(5):1467-73

Role of the blood-brain barrier in the formation of long-chain omega-3 and omega-6 fatty acids from essential fatty acid precursors. Moore SA, et al. **J Neurochem** 1990 Aug;55(2):391-402

Synthesis of apolipoprotein A-1 in pig brain microvascular endothelial cells. Weiler-Güttler H, et al. **J Neurochem** 1990 Feb;54(2):444-50

Cytosolic calcium changes in endothelial cells induced by a protein product of human gliomas containing vascular permeability factor activity. Criscuolo GR, et al. **J Neurosurg** 1989 Dec;71(6):884-91

Bradykinin stimulates the production of cyclic GMP via activation of B2 kinin receptors in cultured porcine aortic endothelial cells. Schini VB, et al. **J Pharmacol Exp Ther** 1990 Feb;252(2):581-5

Method to denude rat aortic endothelium with saponin for phosphoinositide analysis in vascular smooth muscle. Legan E, et al. **J Pharmacol Methods** 1990 Mar;23(1):31-9

Agonist-stimulated divalent cation entry into single cultured human umbilical vein endothelial cells. Jacob R. **J Physiol (Lond)** 1990 Feb;421:55-77

Expression of amino acid transport systems in cultured human umbilical vein endothelial cells. Mann GE, et al. **J Physiol (Lond)** 1989 Mar;410:325-39

Endocytosis of low density lipoproteins in human endothelial cells: typical morphological aspects of the high affinity receptor-mediated pathway as revealed by serial sections and acid phosphatase cytochemistry. Poumay Y, et al. **J Submicrosc Cytol Pathol** 1989 Oct;21(4):627-39

Competitive inhibition of LDL binding and uptake by HDL in aortic endothelial cells. Alexander JJ, et al. **J Surg Res** 1990 Sep;49(3):248-51

Protective effect of glutamine on endothelial cell ATP in oxidant injury. Hinshaw DB, et al. **J Surg Res** 1990 Sep; 49(3):222-7

Endothelial cells can synthesize leukotriene B4. Nolan KD, et al. **J Vasc Surg** 1990 Sep;12(3):298-304

Acetylcholine induces Ca-dependent K currents in rabbit endothelial cells. Sakai T. **Jpn J Pharmacol** 1990 Jun; 53(2):235-46

Role of endothelin in cyclosporine-induced glomerular dysfunction. Kon V, et al. **Kidney Int** 1990 Jun; 37(6):1487-91

Rat mesenteric artery endothelial cells in culture secrete ET-1. Gomez-Sanchez CE, et al. **Life Sci** 1990; 46(12):881-4

Hypoxia increases endothelin release in bovine endothelial cells in culture, but epinephrine, norepinephrine, serotonin, histamine and angiotensin II do not. Hieda HS, et al. **Life Sci** 1990;47(3):247-51

Biosynthesis and modulation of endothelin from bovine pulmonary arterial endothelial cells. Ohlstein EH, et al. **Life Sci** 1990;46(3):181-8

The uptake of (R,R,R)alpha-tocopherol by human endothelial cells in culture. Chan AC, et al. **Lipids** 1990 Jan;25(1):17-21

Chain elongation of polyunsaturated fatty acids by vascular endothelial cells: studies with arachidonate analogues. Garcia MC, et al. **Lipids** 1990 Apr;25(4):211-5

A nonerythroid GATA-binding protein is required for function of the human preproendothelin-1 promoter in endothelial cells. Wilson DB, et al. **Mol Cell Biol** 1990 Sep; 10(9):4854-62

Amiloride analogs induce the phosphorylation of elongation factor-2 in vascular endothelial cells. Demolle D, et al. **Mol Pharmacol** 1990 Jun;37(6):827-32

Plasma endothelin levels in patients with acute renal failure [letter] Tomita K, et al. **N Engl J Med** 1989 Oct 19; 321(16):1127

Regulatory functions of the vascular endothelium. Vane JR, et al. **N Engl J Med** 1990 Jul 5;323(1):27-36 (118 ref.)

Induction of endothelial cell expression of granulocyte and macrophage colony-stimulating factors by modified low-density lipoproteins. Rajavashisth TB, et al. **Nature** 1990 Mar 15;344(6263):254-7

Characterization of an endothelial 5-hydroxytryptamine (5-HT) receptor mediating relaxation of the porcine coronary artery. Molderings GJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Sep; 340(3):300-8

Nitric oxide synthesis in endothelial cytosol: evidence for a calcium-dependent and a calcium-independent mechanism. Mülsch A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Dec;340(6 Pt 2):767-70

Pharmacological effect of endothelin, an endothelium-derived vasoconstrictive peptide, on canine basilar arteries. Nakagomi T, et al. **Neurol Med Chir (Tokyo)** 1989 Nov;29(11):967-74

The modulation of heparin-like activity of endothelial cells in experimental systems. Shimada K, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec;52(8):1337-42

Bradykinin and inositol 1,4,5-trisphosphate-stimulated calcium release from intracellular stores in cultured bovine endothelial cells. Freay A, et al. **Pflugers Arch** 1989 Aug; 414(4):377-84

The interaction between human low density lipoproteins and bovine aortic endothelial cells. Measurements of membrane fluidity. Badea MG, et al. **Physiologie** 1989 Apr-Jun; 26(2):95-100

Specific binding of angiogenin to calf pulmonary artery endothelial cells. Badet J, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(21):8427-31

Minimally modified low density lipoprotein induces monocyte chemotactic protein 1 in human endothelial cells and smooth muscle cells. Cushing SD, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):5134-8

Interleukin 1 regulates synthesis of amyloid beta-protein precursor mRNA in human endothelial cells. Goldgaber D, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7606-10

Infection of vascular endothelial cells with herpes simplex virus enhances tissue factor activity and reduces thrombomodulin expression. Key NS, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7095-9

Low density lipoprotein rich in oleic acid is protected against oxidative modification: implications for dietary prevention of atherosclerosis. Parthasarathy S, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3894-8

Immediate release of a nitric oxide-like factor from bovine aortic endothelial cells by Escherichia coli lipopolysaccharide [published erratum appears in Proc Natl Acad Sci U S A 1990 Aug;87(15):6007] Salvemini D, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(7):2593-7

Platelet-activating factor may act as a second messenger in the release of icosanoids and superoxide anions from leukocytes and endothelial cells. Stewart AG, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3215-9

Alterations in prostaglandin metabolism of cultured human umbilical vein endothelial cells affected by arteriosclerotic risk factors during pregnancy. Erdbrügger W, et al. **Prog Clin Biol Res** 1989;301:389-94

Do polymorphonuclear neutrophils influence the generation of prostacyclin by the vessel wall in presence of lipopolysaccharide B? Mollenhauer J, et al. **Prog Clin Biol Res** 1989;301:547-51

Eicosanoid production by endothelial cells: a comparison between cells from micro- and macrovascular sources. Oestreich R, et al. **Prog Clin Biol Res** 1989;301:371-5

Interferon-gamma augments hydrolysis of LTA4 to LTB4 by endothelial cells. Renkonen R, et al. **Prostaglandins** 1990 Feb;39(2):205-11

The effects of plasma lipoproteins on platelet responsiveness and on platelet and vascular prostanoid synthesis. Bruckdorfer KR. **Prostaglandins Leukot Essent Fatty Acids** 1989 Dec; 38(4):247-54 (72 ref.)

Mechanisms of oxygen free radical-induced calcium overload in endothelial cells. Franceschi D, et al. **Surgery** 1990 Aug;108(2):292-7

Enhanced production of endothelium-derived contracting factor by endothelial cells subjected to pulsatile stretch. Sumpio BE, et al. **Surgery** 1990 Aug;108(2):277-81; discussion 281-2

Single-chain and two-chain tissue-type plasminogen activator (t-PA) bind differently to cultured human endothelial cells. Aerts RJ, et al. **Thromb Haemost** 1989 Sep 29;62(2):699-703

Functional properties of factor VIIa/tissue factor formed with purified tissue factor and with tissue factor expressed on cultured endothelial cells. Almus FE, et al. **Thromb Haemost** 1989 Dec 29;62(4):1067-73

Observations on the cell biology of tissue factor in endothelial cells. Andoh K, et al. **Thromb Haemost** 1990 Apr 12; 63(2):298-302

Synergistic effect of low doses of tumor necrosis factor and sera from patients with systemic lupus erythematosus on the expression of procoagulant activity by cultured endothelial cells. Hasselaar P, et al. **Thromb Haemost** 1989 Sep 29;62(2):654-60

Thromboxane A2 and prostacyclin generation in the microvasculature of patients with atherosclerosis--effect of low-dose aspirin. Kyrle PA, et al. **Thromb Haemost** 1989 Jun 30;61(3):374-7

Actin content and G-/F-actin equilibrium in platelets adhered to plastic and in cultured endothelial cells [letter] Spangenberg P, et al. **Thromb Haemost** 1990 Feb 19; 63(1):150

Interaction of 3H-defibrotide with cultured human umbilical vein endothelial cells. Bilsel S, et al. **Thromb Res** 1990 Jun 1;58(5):455-60

Thromboxane A2 generation by human umbilical endothelial cells. Griesmacher A, et al. **Thromb Res** 1989 Dec 1; 56(5):611-23

Heparin stimulates the release of glycosaminoglycans from cultured human endothelial cells. Kaji T, et al. **Thromb Res** 1990 Jan 1;57(1):163-8

Interaction of thrombin with heparin cofactor II and antithrombin III on prostacyclin production by cultured endothelial cells. Kaji T, et al. **Thromb Res** 1989 Oct 1; 56(1):99-107

A biological method for studying the interaction between platelets and vascular endothelium. Korbut R, et al. **Thromb Res** 1990 Feb 1;57(3):361-70

von Willebrand factor is present in the vascular endothelium from normal dogs and from Doberman pinscher dogs with a plasma von Willebrand factor deficiency. Meyers KM, et al. **Thromb Res** 1990 Jan 1;57(1):109-16

Dexamethasone increases the release of three 44 kD proteins immunologically related to plasminogen activator inhibitor-1 from human umbilical vein endothelial and rabbit coronary microvessel endothelial cells. Partridge CA, et al. **Thromb Res** 1990 Jan 1;57(1):139-54

Suppression of plasminogen activator inhibitor 1 release by fibrin from human umbilical vein endothelial cells. Fukao H, et al. **Thromb Res Suppl** 1990;10:11-20

P2 purinoceptors on vascular endothelial cells: physiological significance and transduction mechanisms. Boeynaems JM, et al. **Trends Pharmacol Sci** 1990 Jan;11(1):34-7 (38 ref.)

[Effects of imazodan and dazoxiben on cAMP levels and PGI2 production in cultured bovine aortic endothelial cells] Jiang YY, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Sep;10(5):421-4 (Eng. Abstr.) (Chi)

[Inhibition of release of prostaglandins and leukotrienes from calcimycin-induced mouse peritoneal macrophages and bovine aorta endothelial cells by anisodamine] Li J, et al.

Chung Kuo Yao Li Hsueh Pao 1989 May;10(3):274–8 (Eng. Abstr.) (Chi)

[Ionic perturbations produced by a non-laminar flow in vascular smooth muscle cells in culture. Protection by cicletanine via a cyclo-oxygenase metabolite] Rosati C, et al. Arch Mal Coeur 1989 Nov;82 Spec No 4:41–4 (Eng. Abstr.) (Fre)

[Role of protein C in endotoxin-induced release of plasminogen activator inhibitor from endothelial cell] Okajima K, et al. Nippon Ketsueki Gakkai Zasshi 1989 Nov; 52(7):1159–64 (Eng. Abstr.) (Jpn)

[The homocysteine theory of arteriosclerosis] Olszewski AJ. Pol Arch Med Wewn 1987 Jan–Feb;77(1–2):53–60 (21 ref.) (Pol)

[Prostacyclin, EDRF and arteriosclerosis] Gryglewski R, et al. Przegl Lek 1989;46(7):543–6 (Pol)

[Prostaglandins, platelets and cardiovascular disease] Cunha-Ribeiro LM, et al. Rev Port Cardiol 1988 Jan–Feb; 7(1):63–80 (305 ref.) (Eng. Abstr.) (Por)

[The effect of glucagon and concanavalin A on cholesterol accumulation in mouse peritoneal macrophages and human aorta intima cells] Vasil'ev AV, et al. Vopr Med Khim 1989 Sep–Oct;35(5):90–3 (Eng. Abstr.) (Rus)

MICROBIOLOGY

Viral activation of the coagulation cascade: molecular interactions at the surface of infected endothelial cells. Etingin OR, et al. Cell 1990 May 18;61(4):657–62

Virus induced adherence of monocytes to endothelial cells. Span AH, et al. FEMS Microbiol Immunol 1989 Mar; 1(4):237–44

Interaction between Borrelia burgdorferi and endothelium in vitro. Szczepanski A, et al. J Clin Invest 1990 May; 85(5):1637–47

Aggregated platelets enhance adherence of Candida yeasts to endothelium. Klotz SA, et al. J Infect Dis 1989 Oct; 160(4):669–77

Functional diversity in vascular endothelial cells: role in coxsackievirus tropism. Huber SA, et al. J Virol 1990 Sep; 64(9):4516–22

Endothelial cells: target for the HIV1 virus? Drouet L, et al. Nouv Rev Fr Hematol 1990;32(1):103–6

Inability of cytomegalovirus infection of cultured endothelial cells to induce HLA class II antigen expression. Sedmak DD, et al. Transplantation 1990 Feb;49(2):458–62

Effect of host cell on the in vitro characteristics expressed by two bovine viral diarrhea virus strains. Johnson JC, et al. Vet Microbiol 1990 Feb;21(4):319–28

Poliovirus permissivity and specific receptor expression on human endothelial cells. Couderc T, et al. Virology 1990 Jan;174(1):95–102

Cultured human brain capillary endothelial cells are permissive for infection by human cytomegalovirus. Lathey JL, et al. Virology 1990 May;176(1):266–73

PARASITOLOGY

Trypanosoma cruzi: infection of cultured human endothelial cells alters inositol phosphate synthesis. Morris SA, et al. Exp Parasitol 1989 Nov;69(4):330–9

PATHOLOGY

Atherosclerosis and endothelium. Part II. Properties of aortic endothelial and smooth muscle cells cultured at various ambient pressures. Tokunaga O, et al. Acta Pathol Jpn 1989 Jun;39(6):356–62

Endothelial–cell injury in cutaneous acute graft–versus–host disease. Dumler JS, et al. Am J Pathol 1989 Dec; 135(6):1097–103

Characterization of high endothelial-like properties of peritubular capillary endothelium during acute renal allograft rejection. Renkonen R, et al. Am J Pathol 1990 Sep;137(3):643–51

Atherosclerosis- and age-related multinucleated variant endothelial cells in primary culture from human aorta. Tokunaga O, et al. Am J Pathol 1989 Dec;135(6):967–76

Anoxia–reoxygenation–induced, neutrophil–mediated endothelial cell injury: role of elastase. Inauen W, et al. Am J Physiol 1990 Sep;259(3 Pt 2):H925–31

Dynamic monitoring of platelet deposition on severely damaged vessel wall in flowing blood. Effects of different stenoses on thrombus growth. Lassila R, et al. Arteriosclerosis 1990 Mar–Apr;10(2):306–15

Development of ultrafine polyester fiber vascular grafts with high endothelialization capability. Angiogenesis by ultrafine polyester fibers. Niu S, et al. ASAIO Trans 1989 Jul–Sep;35(3):202–5

Interaction of retinal pericytes, capillary endothelial cells and pigment epithelial cells in vasoproliferative retinopathies. Wong HC. Aust N Z J Ophthalmol 1990 Feb;18(1):23–5

Changes in endothelial cell mass, luminal volume and capillary number in the gravitational syndrome. Mourad MM, et al. Br J Dermatol 1989 Oct;121(4):447–61

Inhibition of microvascular endothelial cell proliferation by vitreous following retinal scatter photocoagulation [see comments] Singh A, et al. Br J Ophthalmol 1990 Jun; 74(6):328–32 Comment in: Br J Ophthalmol 1990 Jun;74(6):323.

Balloon–induced endothelial denudation promotes deep injury of the arterial wall. Uint L, et al. Braz J Med Biol Res 1989;22(7):913–5

Endothelial injury [letter] Boxen I. Can Med Assoc J 1990 Aug 15;143(4):258–9

Endothelial injury. Gotlieb AI, et al. Can Med Assoc J 1990 Feb 15;142(4):349

Tumor angiogenesis and polyamines:
alpha–difluoromethylornithine, an irreversible inhibitor of ornithine decarboxylase, inhibits B16 melanoma–induced angiogenesis in ovo and the proliferation of vascular endothelial cells in vitro. Takigawa M, et al. Cancer Res 1990 Jul 1;50(13):4131–8

Establishment and characterization of a tumorigenic murine vascular endothelial cell line (F–2). Toda K, et al. Cancer Res 1990 Sep 1;50(17):5526–30

Lumenal narrowing and endothelial cell swelling in skeletal muscle capillaries during hemorrhagic shock. Mazzoni MC, et al. Circ Shock 1989 Sep;29(1):27–39

Intracranial tumor–forming papillary endothelial hyperplasia—a case report. Sickler GK, et al. Clin Neuropathol 1990 May–Jun;9(3):125–8

Pancreatic islet transplantation ameliorates the effect of diabetes on retinal capillary endothelial cell kinetics. Cuthbertson RA, et al. Curr Eye Res 1989 Jul;8(7):681–6

Intimal proliferation in coronary arteries of normolipidaemic pigs with a fixed stenosis: the effects of fish oil. Verdouw PD, et al. Eur Heart J 1989 Nov;10 Suppl F:168–72

The effect of cytomegalovirus infection on the adherence of polymorphonuclear leucocytes to endothelial cells. Span AH, et al. Eur J Clin Invest 1989 Dec;19(6):542–8

Undifferentiated vascular endothelial cells in coronary allograft atherosclerosis [letter] Beranek JT, et al. Int J Cardiol 1990 Jul;28(1):127–8

Quantitative analysis of anastomotic intimal hyperplasia in paired Dacron and PTFE grafts. Cantelmo NL, et al. J Cardiovasc Surg (Torino) 1989 Nov–Dec;30(6):910–5

Immunohistochemistry of intravascular papillary endothelial hyperplasia. Albrecht S, et al. J Cutan Pathol 1990 Feb; 17(1):16–21

Reduced angiotensin converting enzyme plasma activity in scleroderma. A marker of endothelial injury? Matucci–Cerinic M, et al. J Rheumatol 1990 Mar; 17(3):328–30

Masson's tumor of the kidney: a new renal lesion. Garber BB, et al. J Urol 1990 Feb;143(2):344–6

Pseudopodia of choriocapillary endothelium. Yamamoto T, et al. Jpn J Ophthalmol 1989;33(3):327–36

Increase of endothelial cell growth by sera from diabetic patients with proliferative retinopathy [letter; comment] Gwinup G, et al. Lancet 1990 Mar 10;335(8689):602–3 Comment on: Lancet 1989 Oct 28;2(8670):1050.

Endothelial cell receptors on leukemic plasma cells. Kalász V, et al. Leuk Res 1989;13(9):863–8

Prevalence of thick intimas and of obstructive lesions in the vessels supplying the conduction system of the heart. Velican D, et al. Med Interne 1989 Jul–Sep;27(3):197–208

Rapid in situ cellular kinetics of intracerebral tumor angiogenesis using a monoclonal antibody to bromodeoxyuridine. Brien SE, et al. Neurosurgery 1989 Nov;25(5):715–9

Venous thrombosis and endothelial proliferation in paroxysmal nocturnal hemoglobinuria. Taylor SR, et al. Pediatr Pathol 1989;9(6):757–64

Apparent hydroxyl radical production by peroxynitrite: implications for endothelial injury from nitric oxide and superoxide. Beckman JS, et al. Proc Natl Acad Sci U S A 1990 Feb;87(4):1620–4

IgG and IgM anti–endothelial cell antibodies in patients with collagen–vascular disorders. Quadros NP, et al. Rheumatol Int 1990;10(3):113–9

Vascular lesions in the biopsied bronchus of patients with sarcoidosis changes of the endothelial cells in aggregation of eosinophils. Mochizuki I, et al. Sarcoidosis 1990 Mar; 7(1):35–41

Intimal protection of bypass–veins during intraoperative storage in blood or Euro–Collins–solution: the role of medium, temperature, and time. Wagner R. Thorac Cardiovasc Surg 1990 Jun;38(3):151–6

Platelet and shear rate promote tumor cell adhesion to human endothelial extracellular matrix—absence of a role for platelet cyclooxygenase. Bastida E, et al. Thromb Haemost 1989 Jun 30;61(3):485–9

Platelets as scavengers of neutrophil–derived oxidants: a possible defence mechanism at sites of vascular injury. Dallegri F, et al. Thromb Haemost 1989 Jun 30;61(3):415–8

Phenotypic characterization of normal and neoplastic canine endothelial cells by lectin histochemistry. Augustin–Voss HG, et al. Vet Pathol 1990 Mar;27(2):103–9

The role of arterial wall injury in atherogenesis and arterial thrombogenesis. Constantinides P. Zentralbl Allg Pathol 1989;135(6):517–30 (52 ref.)

Morphologic and pathogenetic aspects of coronary artery atherosclerosis in ischemic heart disease. Nagornev VA. Zentralbl Allg Pathol 1989;135(6):591–8

[Experimental study of injury of the tunica elastica interna after heat burn] Shen ZN. Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1987 Mar;3(1):51–4 (Chi)

[The occurrence of endothelial cells in the blood in deep venous inflammation] Vacek L, et al. Vnitr Lek 1989 Aug; 35(8):809–11 (Eng. Abstr.) (Cze)

[Muscle and brain biopsy in a case of mitochondrial encephalomyopathy. Demonstration of a mitochondrial vasculopathy] Coquet M, et al. Ann Pathol 1990;10(3):181–6 (Eng. Abstr.) (Fre)

[Protective action of cicletanine on the vascular walls in stroke–prone spontaneously hypertensive rats] Ruchoux MM, et al. Arch Mal Coeur 1989 Jul;82(7):1163–8 (Eng. Abstr.) (Fre)

[Experimental atherogenesis: early wall changes in the cynomolgus monkey] Bouissou H, et al. Bull Acad Natl Med 1989 May;173(5):635–40; discussion 640–2 (20 ref.) (Eng. Abstr.) (Fre)

[Artificial vascular replacement in microsurgery. Results of a comprehensive experimental study] Voy ED, et al. Fortschr Kiefer Gesichtschir 1990;35:17–9 (Ger)

[Vascularization of the matrix of hyaline rib cartilage in the human: changes with increasing age] Muss W. Z Gerontol 1990 May–Jun;23(3):143–6 (Eng. Abstr.) (Ger)

[The role of free fatty acids in the pathogenesis of arteriosclerosis] Kuhfahl E. Z Gesamte Inn Med 1989 Nov 1;44(21):637–40 (51 ref.) (Eng. Abstr.) (Ger)

[Psoriasis vulgaris—unchanged endothelial reactivity with histochemical markers] Wollina U, et al. Z Hautkr 1989 Oct 15;64(10):925–7 (Eng. Abstr.) (Ger)

[Pattern of the coronary endothelium in the human] Bürrig KF, et al. Z Kardiol 1989;78 Suppl 6:100–4 (30 ref.) (Eng. Abstr.) (Ger)

[Reactions of the endothelium in endotoxic shock] Freudenberg N. Z Kardiol 1989;78 Suppl 6:137–9 (4 ref.) (Eng. Abstr.) (Ger)

[The endothelium and arteriosclerosis] Hort W, et al. Z Kardiol 1989;78 Suppl 6:105–12 (32 ref.) (Eng. Abstr.) (Ger)

[Pharmacologic inhibition of experimental atherosclerosis] Seuter F. Z Kardiol 1989;78 Suppl 6:117–9 (Eng. Abstr.) (Ger)

[Intima and subintimal space as the site of the initial lesions in the formation of arteriosclerosis] Jellinek H, et al. Zentralbl Allg Pathol 1989;135(6):511–6 (8 ref.) (Eng. Abstr.) (Ger)

[Thrombotic thrombocytopenic purpura which was effectively treated by plasma exchange therapy—involvement of vWF and endothelial cell injury] Tanaka K, et al. Rinsho Ketsueki 1989 Dec;30(12):2205–9 (Eng. Abstr.) (Jpn)

[A quantitative analysis of regional features in the structure of aortal endothelial cells in short–term hypertension] Baryshnikova NA, et al. Arkh Patol 1989;51(9):37–42 (Eng. Abstr.) (Rus)

[A method of preparing slide samples of human arterial endothelium impregnated with silver] Kondakov IK, et al. Arkh Patol 1989;51(9):84–6 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Endothelial role in alpha–adrenergic induced vasoconstriction in rat thoracic aorta. Vinet R, et al. Acta Cient Venez 1988;39(4):340–3

Endothelin causes contraction of canine and bovine arterial smooth muscle in vitro and in vivo. Suzuki Y, et al. Acta Neurochir (Wien) 1990;104(1–2):42–7

Regulation of femoral vascular resistance by adenine nucleotides via endothelial and smooth muscle receptors. Dézsi L, et al. Acta Physiol Hung 1990;75(1):21–7

The 1989 Ulf von Euler lecture. Studies on endothelium–dependent vasodilation and the endothelium–derived relaxing factor. Furchgott RF. Acta Physiol Scand 1990 Jun;139(2):257–70 (66 ref.)

Endothelium–independent potentiation by neuropeptide Y of vasoconstrictor responses in isolated arteries from rat and rabbit. Gustafsson H, et al. Acta Physiol Scand 1990 Apr; 138(4):503–7

Different involvement of endothelium–derived relaxing factor and prostacyclin in vasodilator response to bradykinin in isolated dog blood vessels. Okamura T, et al. Adv Exp Med Biol 1989;247A:429–34

Endothelium–derived relaxing and contracting factors. Vanhoutte PM. Adv Nephrol 1990;19:3–16 (76 ref.)

Leucocyte–endothelial cell interaction. Inaugural meeting of the British Inflammation Research Association (BIRAs) 7th June, 1988. Harper GP. Agents Actions 1989 Nov; 28(3–4):235–7

The effects of chronic ethanol treatment on endothelium–dependent responses in rat thoracic aorta. Williams SP, et al. Alcohol 1990 Mar–Apr;7(2):121–7

Role of the endothelium in adrenergic responses of mesenteric artery rings of pregnant rats. Parent A, et al. Am J Obstet Gynecol 1990 Jul;163(1 Pt 1):229–34

Possible endothelial modulation of prostaglandin–stimulated renin release. Beierwaltes WH. Am J Physiol 1990 May; 258(5 Pt 2):F1363–71

Endothelial and smooth muscle cells hyperpolarized by bradykinin are not dye coupled. Bény JL. Am J Physiol 1990 Mar;258(3 Pt 2):H836–41

Membrane hyperpolarization is a mechanism of endothelium–dependent cerebral vasodilation. Brayden JE. Am J Physiol 1990 Sep;259(3 Pt 2):H668–73

Histamine and inositol phosphate accumulation in endothelium: cAMP and a G protein. Carson MR, et al. Am J Physiol 1989 Oct;257(4 Pt 1):L259–64

Endothelin is a potent long–lasting vasoconstrictor in men. Clarke JG, et al. Am J Physiol 1989 Dec;257(6 Pt 2):H2033–5

Phorbol amplification of serotonin–induced arterial contractions is endothelium dependent. Consigny PM. Am J Physiol 1989 Oct;257(4 Pt 2):H1174–9

Effects of endothelium regeneration on canine coronary artery function. Cox RH, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1681–92

Heparinase treatment suggests a role for the endothelial cell glycocalyx in regulation of capillary hematocrit. Desjardins C, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H647–54

Endothelial modulation of norepinephrine–induced constriction of rat aorta at normal and high CO2 tensions. Fukuda S, et al. **Am J Physiol** 1990 Apr;258(4 Pt 2):H1049–54

Tumor necrosis factor–alpha augments pulmonary arterial transendothelial albumin flux in vitro. Goldblum SE, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):L57–67

Role of endothelium in endotoxin blockade of voltage–sensitive Ca2+ channels in smooth muscle cells. Goligorsky MS. **Am J Physiol** 1989 Nov;257(5 Pt 1):C875–81

Endothelium–dependent and –independent relaxations to adenosine in guinea pig aorta. Headrick JP, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H62–7

Depression of endothelium–dependent relaxation by filarial parasite products. Kaiser L, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 2):H648–52

Mechanism of contraction to endothelin in isolated porcine coronary artery. Kasuya Y, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 2):H1828–35

Similar responsiveness of smooth muscle of the canine basilar artery to EDRF and nitric oxide. Katusic ZS, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1235–9

Effects of endothelial impairment on arteriolar dilator responses in vivo. Koller A, et al. **Am J Physiol** 1989 Nov; 257(5 Pt 2):H1485–9

Endothelium regulates skeletal muscle microcirculation by a blood flow velocity–sensing mechanism. Koller A, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H916–20

Differences in endothelium–dependent cerebral dilation by bradykinin and acetylcholine. Kontos HA, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1261–6

Modulation of vascular tone by neutrophils: dependence on endothelial integrity. Mehta JL, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1315–20

17 beta–Estradiol augments endothelium–dependent contractions to arachidonic acid in rabbit aorta. Miller VM, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1502–7

Differential sensitivity to endothelin in canine arteries and veins. Miller VM, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1127–31

Effects of EDCF and endothelin on phosphatidylinositol hydrolysis and contraction in rat aorta. Rapoport RM, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):C122–31

Effects of hypoxia on endothelium–dependent relaxation of rat pulmonary artery. Rodman DM, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):L207–14

Tone regulates opposing endothelium–dependent and –independent forces: resistance brain vessels in vivo. Rosenblum WI, et al. **Am J Physiol** 1990 Jul;259(1 Pt 2):H243–7

Tumor necrosis factor and interleukin 1 alpha increase vascular endothelial permeability. Royall JA, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):L399–410

Interaction of native and chemically modified albumin with pulmonary microvascular endothelium. Schneeberger EE, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):L89–98

Endocardium modulates myocardial inotropic response to 5–hydroxytryptamine. Shah AM, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1790–7

Superoxide mediates reperfusion–induced leukocyte–endothelial cell interactions. Suzuki M, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1740–5

Lipoproteins are inhibitors of endothelium–dependent relaxation of rabbit aorta. Takahashi M, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):H1–8

The endothelium inhibits activation by calcium of vascular neurotransmission. Tesfamariam B, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):H1871–7

Endothelial cells inhibit receptor–mediated superoxide anion production by human polymorphonuclear leukocytes via a soluble inhibitor. Basford RE, et al. **Am J Respir Cell Mol Biol** 1990 Mar;2(3):235–43

Pulmonary response to foreign body microemboli in dogs: release of neutrophil chemoattractant activity by vascular endothelial cells. Farber HW, et al. **Am J Respir Cell Mol Biol** 1989 Jul;1(1):27–35

Vascular endothelial cells migrate centripetally within embryonic arteries. Christ B, et al. **Anat Embryol (Berl)** 1990;181(4):333–9

Interactions of vascular cells with transforming growth factors–beta. Madri JA, et al. **Ann N Y Acad Sci** 1990; 593:243–58

Interactions at the blood/material interface. Greisler HP. **Ann Vasc Surg** 1990 Jan;4(1):98–103

Modulation of endothelial hemostatic properties: an active role in the host response. Gerlach H, et al. **Annu Rev Med** 1990;41:15–24 (19 ref.)

Role of endothelium in the secondary relaxation following contraction by various agonists in isolated rabbit superior mesenteric artery rings. Ercan ZS. **Arch Int Pharmacodyn Ther** 1989 Jul–Aug;300:107–13

In vitro endothelial wound repair. Interaction of cell migration and proliferation. Coomber BL, et al. **Arteriosclerosis** 1990 Mar–Apr;10(2):215–22

Thrombogenicity of vascular cells. Comparison between endothelial cells isolated from different sources and smooth muscle cells and fibroblasts. Zwaginga JJ, et al. **Arteriosclerosis** 1990 May–Jun;10(3):437–48

Influence of cholesterol oxides on endocytosis of cultured endothelial and smooth muscle cells. Peng SK, et al. **Artery** 1990;17(2):84–95

Segmental impairment of endothelium–mediated relaxation in thoracic aortas from atherosclerotic rabbits. Comparison to cholesterol infiltration and energy metabolism. Ragazzi E, et al. **Artery** 1989;16(6):327–45

Cholesterol diet followed by normal diet alters functional and metabolic responses in rabbit aorta. Ragazzi E, et al. **Artery** 1990;17(2):71–83

Fibronectin coating of expanded polytetrafluoroethylene (ePTFE) grafts and its role in endothelial seeding. Vohra RK, et al. **Artif Organs** 1990 Feb;14(1):41–5

Dynamics of platelet adhesion to artificial materials and cultured endothelial cells under shear flow. Ohshima N, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):379–81

Molecular understanding of cellular adhesion on artificial surfaces. Takemoto Y, et al. **ASAIO Trans** 1989 Jul–Sep; 35(3):354–6

Glycosaminoglycan synthesis by smooth muscle cells of differing phenotype and their response to endothelial cell conditioned medium. Merrilees MJ, et al. **Atherosclerosis** 1990 Apr;81(3):245–54

Endothelial cell stimulation of smooth muscle glycosaminoglycan synthesis can be accounted for by transforming growth factor beta activity. Merrilees MJ, et al. **Atherosclerosis** 1990 Apr;81(3):255–65

Endothelium–dependent relaxation, cholesterol content and high energy metabolite balance in Watanabe hyperlipemic rabbit aorta. Ragazzi E, et al. **Atherosclerosis** 1989 Dec; 80(2):125–34

Influence of NG–monomethyl–L–arginine on endothelium–dependent relaxations in the perfused mesenteric vascular bed of the rat. Ebeigbe AB, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):873–9

L–NG–monomethyl arginine inhibits the vasodilating effects of low dose of endothelin–3 on rat mesenteric arteries. Fukuda N, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):739–45

Depletion of arterial L–arginine causes reversible tolerance to endothelium–dependent relaxation. Gold ME, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):714–21

Pituitary follicular cells secrete both vascular endothelial growth factor and follistatin. Gospodarowicz D, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):292–8

Endothelial cells metabolize NG–monomethyl–L–arginine to L–citrulline and subsequently to L–arginine. Hecker M, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1037–43

Lysophosphatidylcholine: essential role in the inhibition of endothelium–dependent vasorelaxation by oxidized low density lipoprotein. Yokoyama M, et al. **Biochem Biophys Res Commun** 1990 Apr 16;168(1):301–8

MAC–1 mediates adherence of human monocytes to endothelium via a protein kinase C dependent mechanism. Gladwin AM, et al. **Biochim Biophys Acta** 1990 Apr 9; 1052(1):166–72

Thrombin–induced expression of the KC gene in cultured aortic endothelial cells. Involvement of proteolytic activity and protein kinase C. Shen XY, et al. **Biochim Biophys Acta** 1990 Jun 21;1049(2):145–50

Are close contacts between astrocytes and endothelial cells a prerequisite condition of a blood–brain barrier? The rat subfornical organ as an example. Bouchaud C, et al. **Biol Cell** 1989;67(2):159–65

Rapid endothelialization of microporous vascular prostheses covered with meshed vascular tissue: a preliminary report. Sedlarik KM, et al. **Biomaterials** 1990 Jan;11(1):4–8

Shear stress–induced detachment of human polymorphonuclear leukocytes from endothelial cell monolayers. Gallik S, et al. **Biorheology** 1989;26(4):823–34

The study of rheological effects on vascular endothelial cells in culture. Levesque MJ, et al. **Biorheology** 1989; 26(2):345–57

Vascular cell adhesion molecule–1 mediates lymphocyte adherence to cytokine–activated cultured human endothelial cells. Carlos TM, et al. **Blood** 1990 Sep 1; 76(5):965–70

Fibrinogen induces endothelial cell adhesion and spreading via the release of endogenous matrix proteins and the recruitment of more than one integrin receptor. Dejana E, et al. **Blood** 1990 Apr 1;75(7):1509–17

Expression of the CD34 gene in vascular endothelial cells. Fina L, et al. **Blood** 1990 Jun 15;75(12):2417–26

Platelet aggregation in flowing blood at a site of injury to an endothelial cell monolayer: quantitation and real–time imaging with the TAB monoclonal antibody. Grabowski EF. **Blood** 1990 Jan 15;75(2):390–8

Polarized fibronectin secretion and localized matrix assembly sites correlate with subendothelial matrix formation. Kowalczyk AP, et al. **Blood** 1990 Jun 15;75(12):2335–42

Characterization and fibrinolytic properties of human omental tissue mesothelial cells. Comparison with endothelial cells. van Hinsbergh VW, et al. **Blood** 1990 Apr 1;75(7):1490–7

Cooling augments contractile response to 5–hydroxytryptamine via an endothelium–dependent mechanism. Bodelsson M, et al. **Blood Vessels** 1989; 26(6):347–59

Myogenic responses are independent of the endothelium in rat pressurized posterior cerebral arteries. McCarron JG, et al. **Blood Vessels** 1989;26(5):315–9

Does the endothelium play a role in flow–dependent constriction? A study in the isolated rabbit femoral artery. Sipkema P, et al. **Blood Vessels** 1989;26(6):368–76

Endothelium–dependent and BRL 34915–induced vasodilatation in rat isolated perfused mesenteric arteries: role of G–proteins, K+ and calcium channels. Adeagbo AS, et al. **Br J Pharmacol** 1990 Jul;100(3):427–34

Endothelium–dependent relaxation and hyperpolarization of canine coronary artery smooth muscles in relation to the electrogenic Na–K pump. Chen G, et al. **Br J Pharmacol** 1989 Nov;98(3):950–6

Role of endothelium and calcium channels in endothelin–induced contraction of human cerebral arteries. de Aguilera EM, et al. **Br J Pharmacol** 1990 Mar; 99(3):439–40

Impairment of pulmonary endothelium–dependent relaxation in patients with Eisenmenger's syndrome. Dinh Xuan AT, et al. **Br J Pharmacol** 1990 Jan;99(1):9–10

No effect of pertussis toxin on peripheral prejunctional alpha 2–adrenoceptor–mediated responses and on endothelium–dependent relaxations in the rat. Docherty JR. **Br J Pharmacol** 1990 Jun;100(2):348–52

The role of the endothelium in mediating the actions of ATP, adenosine and acetylcholine on flow through blood vessels in the rabbit knee joint. Ferrell WR, et al. **Br J Pharmacol** 1990 Feb;99(2):379–83

Endothelium–dependent calcium–induced relaxation in the presence of Ca2+–antagonists in canine depolarized coronary arteries. Kikkawa K, et al. **Br J Pharmacol** 1989 Oct;98(2):700–6

Evidence that A2 purinoceptors are involved in endothelium–dependent relaxation of the rat thoracic aorta. Rose'Meyer RB, et al. **Br J Pharmacol** 1990 Jul; 100(3):576–80

Effects of endothelin on blood vessels of the brain and choroid plexus. Kadel KA, et al. **Brain Res** 1990 Jun 4; 518(1–2):78–82

The role of endothelium in vascular reactivity. Carvalho MH, et al. **Braz J Med Biol Res** 1989;22(5):533–45 (56 ref.)

Endothelial cells inhibit the vascular response to adrenergic nerve stimulation by a receptor–mediated mechanism. González C, et al. **Can J Physiol Pharmacol** 1990 Jan; 68(1):104–9

Persistent impairment of endothelium–dependent relaxation to acetylcholine and progression of atherosclerosis following 6 weeks of cholesterol feeding in the rabbit. Jayakody L, et al. **Can J Physiol Pharmacol** 1989 Nov; 67(11):1454–60

A model for demonstration of reversal of impairment of endothelium–dependent relaxation in the cholesterol–fed rabbit. Kappagoda CT, et al. **Can J Physiol Pharmacol** 1990 Jul;68(7):845–50

Microvascular endothelial cell heterogeneity: interactions with leukocytes and tumor cells. Belloni PN, et al. **Cancer Metastasis Rev** 1990 Feb;8(4):353–89 (296 ref.)

Endothelium dependent control of arterial diameter by blood viscosity. Melkumyants AM, et al. **Cardiovasc Res** 1989 Sep;23(9):741–7

Functional state of the endothelium determines the response to endothelin in the coronary circulation. Stewart DJ, et al. **Cardiovasc Res** 1990 Jan;24(1):7–12

1–Butyryl–glycerol: a novel angiogenesis factor secreted by differentiating adipocytes. Dobson DE, et al. **Cell** 1990 Apr 20;61(2):223–30

VCAM–1 on activated endothelium interacts with the leukocyte integrin VLA–4 at a site distinct from the VLA–4/fibronectin binding site. Elices MJ, et al. **Cell** 1990 Feb 23;60(4):577–84

Induction of insulin–like growth factor I messenger RNA in rat aorta after balloon denudation. Cercek B, et al. **Circ Res** 1990 Jun;66(6):1755–60

Role of the vascular endothelium in regulating the response of small arteries of the dog kidney to transmural pressure elevation and reduced PO2. Eskinder H, et al. **Circ Res** 1990 May;66(5):1427–35

Endothelium–dependent relaxation and cyclic GMP accumulation in rabbit pulmonary artery are selectively impaired by moderate hypoxia. Johns RA, et al. **Circ Res** 1989 Dec;65(6):1508–15

Coronary arteriolar myogenic response is independent of endothelium. Kuo L, et al. **Circ Res** 1990 Mar;66(3):860–6

Endothelium–dependent mechanical properties of the carotid artery in WKY and SHR. Role of angiotensin converting enzyme inhibition. Levy BI, et al. **Circ Res** 1990 Feb; 66(2):321–8

Contribution of endothelial cells to calcium–dependent fluorescence transients in rabbit hearts loaded with indo 1. Lorell BH, et al. **Circ Res** 1990 Aug;67(2):415–25

H(+)–induced vasodilation of rat aorta is mediated by alterations in intracellular calcium sequestration. Loutzenhiser R, et al. **Circ Res** 1990 Aug;67(2):426–39

Rabbit polymorphonuclear neutrophils elicit endothelium–dependent contraction in vascular smooth muscle. Ohlstein EH, et al. **Circ Res** 1989 Oct;65(4):917–24

Rapid and reversible inhibition by low density lipoprotein of the endothelium–dependent relaxation to hemostatic substances in porcine coronary arteries. Heat and acid labile factors in low density lipoprotein mediate the inhibition. Tomita T, et al. **Circ Res** 1990 Jan;66(1):18–27

Hyperlipidemic arterial dysfunction [comment] Henry PD. **Circulation** 1990 Feb;81(2):697–9 Comment on: Circulation 1990 Feb;81(2):482–90. Comment on: Circulation 1990 Feb;81(2):491–7.

Involvement of endothelin in the regulation of human vascular tonus. Potent vasoconstrictor effect and existence in endothelial cells [see comments] Miyauchi T, et al. **Circulation** 1990 Jun;81(6):1874–80 Comment in: Circulation 1990 Jun;81(6):2022–5.

Long-term impairment of endothelium-dependent relaxations to aggregating platelets after reperfusion injury in canine coronary arteries. Pearson PJ, et al. **Circulation** 1990 Jun;81(6):1921–7

Alteration of endothelium-dependent distribution of myocardial blood flow after coronary occlusion and reperfusion. Pelc LR, et al. **Circulation** 1990 Jun; 81(6):1928–37

Endothelial modulation of the coronary vasculature in vessels perfused via mature collaterals. Sellke FW, et al. **Circulation** 1990 Jun;81(6):1938–47

Endothelium-dependent dilation of the coronary microvasculature is impaired in dilated cardiomyopathy. Treasure CB, et al. **Circulation** 1990 Mar;81(3):772–9

The endothelin explosion. A pathophysiological reality or a biological curiosity? [comment] Whittle BJ, et al. **Circulation** 1990 Jun;81(6):2022–5 (45 ref.) Comment on: Circulation 1990 Jun;81(6):1874–80.

Comparison of the reactivity of micro-and macrovessels to noradrenaline and endothelin in rats with renal (2K1C) hypertension. Fortes ZB, et al. **Clin Exp Hypertens [A]** 1990;12(1):47–61

Interleukin-1 increases tumor cell adhesion to endothelial cells through an RGD dependent mechanism: in vitro and in vivo studies. Lauri D, et al. **Clin Exp Metastasis** 1990 Jan–Feb;8(1):27–32

Endothelium-dependent inhibition of sympathetic vasoconstriction by frusemide administration to rats. Gerkens JF, et al. **Clin Exp Pharmacol Physiol** 1988 Jun; 15(6):449–55

T cell inhibitor secreted by macrophages and endothelial cells. Kashiwado T, et al. **Clin Immunol Immunopathol** 1989 Nov;53(2 Pt 1):137–50

Biphasic response to acetylcholine in human veins in vivo: the role of the endothelium. Collier J, et al. **Clin Sci** 1990 Jan;78(1):101–4

Endothelium attenuates contractile responses of goat saphenous arteries to adrenergic nerve stimulation. Vila JM, et al. **Comp Biochem Physiol [C]** 1989;94(2):431–4

The role of endothelium in the pathogenesis of vascular diseases. Hladovec J. **Cor Vasa** 1989;31(6):433–43 (13 ref.)

Growth control in capillary endothelium. Folkman J. **Dev Biol (N Y 1985)** 1986;3:101–10 (78 ref.)

Modulation of adrenal chromaffin cell intracellular calcium by angiotensin, bradykinin and endothelin. Printz MP, et al. **Endocrinol Exp** 1990 Mar;24(1–2):55–61

Effects of endothelin-1 on its receptor concentration and thymidine incorporation in calf adrenal zona glomerulosa cells: a comparative study with phorbol esters. Cozza EN, et al. **Endocrinology** 1990 Aug;127(2):549–54

Angiographic assessment of human coronary artery endothelial function by measurement of endothelium-dependent vasodilation. Bossaller C, et al. **Eur Heart J** 1989 Nov;10 Suppl F:44–8

A new endothelium-dependent vasoconstricting factor (EDCF) in pig coronary artery. Dhein S, et al. **Eur Heart J** 1989 Nov;10 Suppl F:82–5

Coronary flow increases induced by adenosine and adenine nucleotides are mediated by the coronary endothelium: a new principle of the regulation of coronary flow. Nees S. **Eur Heart J** 1989 Nov;10 Suppl F:28–35

Endothelium-dependent modulation of vascular tone and platelet function. Pohl U, et al. **Eur Heart J** 1990 Apr;11 Suppl B:35–42 (70 ref.)

Activation of multiple signal transduction pathways by endothelin in cultured human vascular smooth muscle cells. Resink TJ, et al. **Eur J Biochem** 1990 Apr 30;189(2):415–21

Endothelium removal does not affect potentiation by neuropeptide Y in rabbit ear artery. Budai D, et al. **Eur J Pharmacol** 1989 Sep 1;168(1):97–100

Inhibitory effect of ethanol on endothelium-dependent vascular responsiveness. Hatake K, et al. **Eur J Pharmacol** 1989 Sep 22;168(3):277–83

Vascular smooth muscle relaxation induced by epidermal growth factor is endothelium-dependent. Namiki A, et al. **Eur J Pharmacol** 1990 May 16;180(2–3):247–54

Roles of calcium and the endothelium in the relaxations produced by 5'-N-ethylcarboxamidoadenosine (NECA). Sabouni MH, et al. **Eur J Pharmacol** 1989 Jul 18; 166(2):311–4

Is the sumatriptan (GR 43175)-induced endothelium-dependent relaxation of pig coronary arteries mediated by 5-HT1D receptors? Schoeffter P, et al. **Eur J Pharmacol** 1989 Jul 4;166(1):117–9

Differential modulation by basilar and mesenteric endothelium of angiotensin-induced contraction in canine arteries. Yen MH, et al. **Eur J Pharmacol** 1990 May 16; 180(2–3):209–16

Endothelin and PDGF do not stimulate peripheral blood monocyte chemotaxis, adhesion to endothelium, and superoxide production. Bath PM, et al. **Exp Cell Res** 1990 Apr;187(2):339–42

In vivo demonstration of enhanced arterial constrictor response to serotonin following focal endothelial cell loss. Orlandi C, et al. **Exp Mol Pathol** 1990 Apr;52(2):192–201

Cytoadherence and sequestration in falciparum malaria. Barnwell JW. **Exp Parasitol** 1989 Nov;69(4):407–12 (36 ref.)

Voltage-dependent transient calcium currents in freshly dissociated capillary endothelial cells. Bossu JL, et al. **FEBS Lett** 1989 Sep 25;255(2):377–80

Involvement of protein kinase C in the mitogenic and chemotaxis effects of basic fibroblast growth factor on bovine cerebral cortex capillary endothelial cells. Daviet I, et al. **FEBS Lett** 1990 Jan 1;259(2):315–7

Vascular endothelial cell killing by combinations of membrane-active agents and hydrogen peroxide. Ginsburg I, et al. **Free Radic Biol Med** 1989;7(4):369–76

Coronary reperfusion in dogs inhibits endothelium-dependent relaxation: role of superoxide radicals. Lawson DL, et al. **Free Radic Biol Med** 1990; 8(4):373–80

EPR spectroscopic studies of detection of a carbon-centered free radical during acetylcholine-induced and endothelium-dependent relaxation of guinea pig pulmonary artery. Sata T, et al. **Free Radic Res Commun** 1990; 9(3–6):213–22

The unique physiology of endothelial cells and its implications in radiobiology. Fajardo LF. **Front Radiat Ther Oncol** 1989;23:96–112 (91 ref.)

Postmortem changes in endothelium-dependent and independent responses of porcine coronary arteries. Vedernikov YP, et al. **Gen Pharmacol** 1990;21(1):49–52

Ion channels in human endothelial cells. Nilius B, et al. **Gen Physiol Biophys** 1990 Apr;9(2):89–111

Thromboxane A2 receptor antagonists inhibit endothelium-dependent contractions. Auch-Schwelk W, et al. **Hypertension** 1990 Jun;15(6 Pt 2):699–703

Activation of endothelial L-arginine pathway in resistance arteries. Effect of age and hypertension. Dohi Y, et al. **Hypertension** 1990 Aug;16(2):170–9

H2O2 and endothelium-dependent cerebral arteriolar dilation. Implications for the identity of endothelium-derived relaxing factor generated by acetylcholine. Wei EP, et al. **Hypertension** 1990 Aug; 16(2):162–9

Phorbol ester causes down-regulation of CD11/CD18-independent neutrophil adherence to endothelium. Dobrina A, et al. **Immunology** 1990 Mar; 69(3):429–34

Lymphocyte homing receptors and adhesion molecules in intravascular malignant lymphomatosis. Jalkanen S, et al. **Int J Cancer** 1989 Nov 15;44(5):777–82

Repair of retinal pigment epithelium and its relationship with capillary endothelium after krypton laser photocoagulation. Pollack A, et al. **Invest Ophthalmol Vis Sci** 1990 May; 31(5):890–8

Endothelial cell-stimulating angiogenesis factor in vitreous from extraretinal neovascularizations. Taylor CM, et al. **Invest Ophthalmol Vis Sci** 1989 Oct;30(10):2174–8

Endothelial, platelet and leukocyte interactions in ischemic heart disease: insights into potential mechanisms and their clinical relevance. Dinerman JL, et al. **J Am Coll Cardiol** 1990 Jul;16(1):207–22 (162 ref.)

Indomethacin attenuates the constriction of canine epicardial coronary arteries to acetylcholine in the absence of endothelium: contribution of platelets to vasoconstriction in vivo. Miller WL, et al. **J Am Coll Cardiol** 1989 Dec; 14(7):1794–802

Endothelium-dependent vasodilating effect of substance P during flow-reducing coronary stenosis in the dog. Yatani A, et al. **J Am Coll Cardiol** 1990 May;15(6):1374–84

Coronary vasomotion in response to sympathetic stimulation in humans: importance of the functional integrity of the endothelium. Zeiher AM, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1181–90

Comparison of the hemodynamic effects of nitric oxide and endothelium-dependent vasodilators in intact lungs. Archer SL, et al. **J Appl Physiol** 1990 Feb;68(2):735–47

Use of norepinephrine uptake to measure lung capillary recruitment with exercise. Dupuis J, et al. **J Appl Physiol** 1990 Feb;68(2):700–13

Contrasting effects of inflammatory stimuli on neutrophil and monocyte adherence to endothelial cells. Kamp DW, et al. **J Appl Physiol** 1989 Aug;67(2):556–62

Membrane potential and Na(+)-K+ pump activity modulate resting and bradykinin-stimulated changes in cytosolic free calcium in cultured endothelial cells from bovine atria. Laskey RE, et al. **J Biol Chem** 1990 Feb 15;265(5):2613–9

Domain structure of the endothelial cell receptor thrombomodulin as deduced from modulation of its anticoagulant functions. Evidence for a glycosaminoglycan-dependent secondary binding site for thrombin. Preissner KT, et al. **J Biol Chem** 1990 Mar 25; 265(9):4915–22

Hirudin-based peptides block the inflammatory effects of thrombin on endothelial cells. Prescott SM, et al. **J Biol Chem** 1990 Jun 15;265(17):9614–6

Endothelin mobilizes Ca2+ from a caffeine- and ryanodine-insensitive intracellular pool in rat atrial cells. Vigne P, et al. **J Biol Chem** 1990 Apr 25;265(12):6782–7

Experimental determination of wall shear rate in canine carotid arteries perfused in vitro. Johnson GA, et al. **J Biomech** 1989;22(11–12):1141–50

Enhanced adherence of human adult endothelial cells to plasma discharge modified polyethylene terephthalate. Pratt KJ, et al. **J Biomed Mater Res** 1989 Oct; 23(10):1131–47

Endothelium-derived vasoactive substances: potential role in hypertension, atherosclerosis, and vascular occlusion. Lüscher TF, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 6:S63–9 (42 ref.)

Spatiotemporal segregation of endothelial cell integrin and nonintegrin extracellular matrix-binding proteins during adhesion events. Basson CT, et al. **J Cell Biol** 1990 Mar; 110(3):789–801

Tumor cell surface beta 1-4-linked galactose binds to lectin(s) on microvascular endothelial cells and contributes to organ colonization. Cornil I, et al. **J Cell Biol** 1990 Aug; 111(2):773–81

Control of intracellular pH and growth by fibronectin in capillary endothelial cells. Ingber DE, et al. **J Cell Biol** 1990 May;110(5):1803–11

Human microvascular endothelial cells use beta 1 and beta 3 integrin receptor complexes to attach to laminin. Kramer RH, et al. **J Cell Biol** 1990 Sep;111(3):1233–43

Transforming growth factor-beta 1 modulates basic fibroblast growth factor-induced proteolytic and angiogenic properties of endothelial cells in vitro. Pepper MS, et al. **J Cell Biol** 1990 Aug;111(2):743–55

Junctional communication is induced in migrating capillary endothelial cells. Pepper MS, et al. **J Cell Biol** 1989 Dec; 109(6 Pt 1):3027–38

The mitogenic signaling pathway but not the plasminogen activator-inducing pathway of basic fibroblast growth factor is mediated through protein kinase C in fetal bovine aortic endothelial cells. Presta M, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1877–84

Characterization of the activation of latent TGF-beta by co-cultures of endothelial cells and pericytes or smooth muscle cells: a self-regulating system. Sato Y, et al. **J Cell Biol** 1990 Aug;111(2):757–63

Platelet thrombospondin modulates endothelial cell adhesion, motility, and growth: a potential angiogenesis regulatory factor. Taraboletti G, et al. **J Cell Biol** 1990 Aug; 111(2):765–72

Tissue plasminogen activator messenger RNA levels increase in cultured human endothelial cells exposed to laminar shear stress. Diamond SL, et al. **J Cell Physiol** 1990 May; 143(2):364–71

Astrocytes induce neural microvascular endothelial cells to form capillary-like structures in vitro. Laterra J, et al. **J Cell Physiol** 1990 Aug;144(2):204–15

A novel succinyl dipeptide stimulates directed cell migration by modulating protein kinase C activity. Mascardo RN, et al. **J Cell Physiol** 1990 Feb;142(2):401–9

Cyclic adenosine monophosphate levels and the function of skin microvascular endothelial cells. Tuder RM, et al. **J Cell Physiol** 1990 Feb;142(2):272–83

Serum enhancement of human endothelial cell attachment to and spreading on collagens I and IV does not require serum fibronectin or vitronectin. Norris WD, et al. **J Cell Sci** 1990 Feb;95 (Pt 2):255–62

Mechanisms of action of endothelin on isolated feline cerebral arteries: in vitro pharmacology and electrophysiology. Jansen I, et al. **J Cereb Blood Flow Metab** 1989 Dec; 9(6):743–7

Contractile responses to endothelin in feline cortical vessels in situ. Robinson MJ, et al. **J Cereb Blood Flow Metab** 1990 Mar;10(2):285–9

Muscarinic cholinergic receptors on the endothelium of human cerebral arteries. Tsukahara T, et al. **J Cereb Blood Flow Metab** 1989 Dec;9(6):748–53

Endothelium-dependent vascular smooth muscle control. Husain M, et al. **J Clin Anesth** 1988;1(2):135–45 (97 ref.)

Release of endothelin from the porcine aorta. Inhibition by endothelium-derived nitric oxide. Boulanger C, et al. **J Clin Invest** 1990 Feb;85(2):587–90

Endothelium-dependent vascular responses. Mediators and mechanisms. Brenner BM, et al. **J Clin Invest** 1989 Nov; 84(5):1373–8 (70 ref.)

Neutrophil adherence to isolated adult canine myocytes. Evidence for a CD18-dependent mechanism. Entman ML, et al. **J Clin Invest** 1990 May;85(5):1497–506

A regulatory role for large vessels in organ circulation. Endothelial cells of the main renal artery modulate intrarenal hemodynamics in the rat. Kon V, et al. **J Clin Invest** 1990 Jun;85(6):1728–33

Oxygen tension regulates the expression of the platelet-derived growth factor-B chain gene in human endothelial cells. Kourembanas S, et al. **J Clin Invest** 1990 Aug;86(2):670–4

Increased endothelial albumin permeability mediated by protein kinase C activation. Lynch JJ, et al. **J Clin Invest** 1990 Jun;85(6):1991–8

Hypoxia modulates the barrier and coagulant function of cultured bovine endothelium. Increased monolayer permeability and induction of procoagulant properties. Ogawa S, et al. **J Clin Invest** 1990 Apr;85(4):1090–8

Identification of surface proteins mediating adherence of CD11/CD18-deficient lymphoblastoid cells to cultured human endothelium. Schwartz BR, et al. **J Clin Invest** 1990 Jun;85(6):2019–22

Oxidized low density lipoproteins cause contraction and inhibit endothelium-dependent relaxation in the pig coronary artery. Simon BC, et al. **J Clin Invest** 1990 Jul; 86(1):75–9

Endothelin receptor is coupled to phospholipase C via a

pertussis toxin-insensitive guanine nucleotide-binding regulatory protein in vascular smooth muscle cells. Takuwa Y, et al. **J Clin Invest** 1990 Mar;85(3):653–8

Endothelial cells augment T cell interleukin 2 production by a contact-dependent mechanism involving CD2/LFA-3 interaction. Hughes CC, et al. **J Exp Med** 1990 May 1; 171(5):1453–67

Inducible cell adhesion molecule 110 (INCAM-110) is an endothelial receptor for lymphocytes. A CD11/CD18-independent adhesion mechanism. Rice GE, et al. **J Exp Med** 1990 Apr 1;171(4):1369–74

Endothelin sensitivity and receptor binding in the aorta of spontaneously hypertensive rats. Clozel M. **J Hypertens** 1989 Nov;7(11):913–7

Endothelin-induced contraction of human peripheral resistance vessels is partly dependent on stimulation of sodium-hydrogen exchange [see comments] Richards NT, et al. **J Hypertens** 1989 Oct;7(10):777–80 Comment in: J Hypertens 1990 Apr;8(4):389–91.

Endothelium-dependent relaxation in resistance vessels from the spontaneously hypertensive rats. Watt PA, et al. **J Hypertens** 1989 Aug;7(8):661–6 (27 ref.)

Endothelin has potent direct inotropic and chronotropic effects in cultured heart cells. Concas V, et al. **J Hypertens Suppl** 1989 Dec;7(6):S96–7

Potentiated endothelin-1-induced phosphoinositide hydrolysis in atria and mesenteric artery of DOCA-salt hypertensive rats. de Champlain J, et al. **J Hypertens Suppl** 1989 Dec;7(6):S136–7

Mechanisms of pressure-induced myogenic activation of cerebral and renal arteries: role of the endothelium. Harder DR, et al. **J Hypertens Suppl** 1989 Sep;7(4):S11–5; discussion S16

Massive regional differences in the vascular effects of endothelin. Hof RP, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S274–5

The cardiovascular effect of intracerebroventricular endothelin in rats. Kawano Y, et al. **J Hypertens Suppl** 1989 Dec;7(6):S22–3

Endothelium-dependent mechanical properties of the carotid artery in Wistar-Kyoto and spontaneously hypertensive rats. Levy BI, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S118–9

Effects of endothelin on isolated ischaemic rat hearts during ramiprilat, bradykinin and indomethacin perfusion. Linz W, et al. **J Hypertens Suppl** 1989 Dec;7(6):S310–1

The effects of endothelin on renovascular resistance and renin release. Münter K, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S276–7

Actions of endothelin on adrenergic neuroeffector junction. Nakamaru M, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S132–3

Stimulation of Na(+)-H+ exchange, the Na(+)-K+ pump and Na+,K+,Cl- cotransport by endothelin-1 in cultured vascular smooth muscle cells. Rosati C, et al. **J Hypertens Suppl** 1989 Dec;7(6):S138–9

Vasoconstrictor actions of endothelin-1 in human resistance vessels. Watt PA, et al. **J Hypertens Suppl** 1989 Dec; 7(6):S134–5

Role of cell surface carbohydrate moieties in monocytic cell adhesion to endothelium in vitro. DiCorleto PE, et al. **J Immunol** 1989 Dec 1;143(11):3666–72

Lipopolysaccharide stimulates monocyte adherence by effects on both the monocyte and the endothelial cell. Doherty DE, et al. **J Immunol** 1989 Dec 1;143(11):3673–9

IFN-gamma enhances endothelial activation induced by tumor necrosis factor but not IL-1. Doukas J, et al. **J Immunol** 1990 Sep 15;145(6):1727–33

T cells bind to cytokine-activated endothelial cells via a novel, inducible sialoglycoprotein and endothelial leukocyte adhesion molecule-1. Graber N, et al. **J Immunol** 1990 Aug 1;145(3):819–30

IFN-gamma regulates the expression of the adhesion molecule ELAM-1 and IL-6 production by human endothelial cells in vitro. Leeuwenberg JF, et al. **J Immunol** 1990 Oct 1;145(7):2110–4

Two leukocyte receptors (CD11a/CD18 and CD11b/CD18) mediate transient adhesion to endothelium by binding to different ligands. Lo SK, et al. **J Immunol** 1989 Nov 15; 143(10):3325–9

Human T lymphocyte adhesion to endothelial cells and transendothelial migration. Alteration of receptor use relates to the activation status of both the T cell and the endothelial cell. Oppenheimer-Marks N, et al. **J Immunol** 1990 Jul 1;145(1):140–8

Monocyte chemotactic and activating factor gene expression induced in endothelial cells by IL-1 and tumor necrosis factor. Sica A, et al. **J Immunol** 1990 Apr 15;144(8):3034–8

Suppression of human lymphocyte chemotaxis and transendothelial migration by anti-LFA-1 antibody. Van Epps DE, et al. **J Immunol** 1989 Nov 15;143(10):3207–10

Quantitation of polymorphonuclear leukocyte adherence to endothelial cells by electronic particle size discrimination. McFaul SJ, et al. **J Immunol Methods** 1990 Jul 3; 130(2):171–6

The in vitro lymphocyte/endothelium binding assay. An improved method employing light microscopy. Willführ KU, et al. **J Immunol Methods** 1990 Jul 3;130(2):201–7

Substance P induces the expression of an endothelial-leukocyte adhesion molecule by microvascular endothelium. Matis WL, et al. **J Invest Dermatol** 1990 Apr; 94(4):492–5

Increased influence of endothelium in obese Zucker rat aorta. Auguet M, et al. **J Pharm Pharmacol** 1989 Dec;41(12):861–4

Fluoride produces endothelium-dependent relaxation and endothelium-independent contraction in coronary artery. Cushing DJ, et al. **J Pharmacol Exp Ther** 1990 Jul; 254(1):28–32

Pertussis toxin inhibits contractions but not endothelium-dependent relaxations of rabbit pulmonary artery in response to acetylcholine and other agonists. Hohlfeld J, et al. **J Pharmacol Exp Ther** 1990 Jan; 252(1):260–4

Endothelium-dependent modulation of endothelin-induced vasoconstriction and membrane depolarization in cat cerebral arteries. Kauser K, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):93–7

Hemodynamic and pharmacological evaluation of the vasodilator and vasoconstrictor effects of endothelin-1 in rats. Le Monnier de Gouville AC, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):300–11

Endothelium-dependent contractions induced by angiotensin I and angiotensin II in canine cerebral artery. Manabe K, et al. **J Pharmacol Exp Ther** 1989 Oct;251(1):317–20

Effects of endothelium on basal tone and agonist and O2 sensitivity in porcine coronary artery. Ngai JH, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1053–9

5-Hydroxytryptamine (5-HT)-induced endothelium-dependent relaxation of pig coronary arteries is mediated by 5-HT receptors similar to the 5-HT1D receptor subtype. Schoeffter P, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):387–95

Calcium dependency of the endothelium-dependent hyperpolarization in smooth muscle cells of the rabbit carotid artery. Chen GF, et al. **J Physiol (Lond)** 1990 Feb; 421:521–34

Scanning electron microscopic observations on the endothelial healing mechanism of vessels. Gu YD, et al. **J Reconstr Microsurg** 1989 Oct;5(4):327–30

Endocytosis of serum albumin-gold conjugates by microvascular endothelial cells in rat adrenal gland: regional differences between cortex and medulla. Bumbaširević V, et al. **J Submicrosc Cytol Pathol** 1990 Jan; 22(1):135–45

The effect of varying fibronectin concentration on the attachment of endothelial cells to polytetrafluoroethylene vascular grafts. Budd JS, et al. **J Vasc Surg** 1990 Aug; 12(2):126–30

Endothelial injury and vascular dysfunction associated with the Fogarty balloon catheter [comment] Harker CT, et al. **J Vasc Surg** 1989 Nov;10(5):596–8 Comment on: J Vasc Surg 1989 Mar;9(3):422–5.

Endothelium-dependent vasorelaxations in response to aggregating platelets are impaired in reversed vein grafts. Komori K, et al. **J Vasc Surg** 1990 Aug;12(2):139–47

Envelope glycoprotein of avian hemangioma retrovirus induces a thrombogenic surface on human and bovine endothelial cells. Resnick-Roguel N, et al. **J Virol** 1990 Aug;64(8):4029–32

Decrease in endothelium dependent hypotension in spontaneously hypertensive rats. Takata Y, et al. **Jpn Circ J** 1990 Feb;54(2):183–91

Inhibitory effects of endothelial cells and calcium channel blockers on platelet aggregation. Yamada Y, et al. **Jpn Heart J** 1990 Mar;31(2):201–15

Nitroarginine inhibits endothelium-derived relaxation. Kobayashi Y, et al. **Jpn J Pharmacol** 1990 Jan;52(1):167–9

Endothelin--a new family of endothelium-derived peptides with widespread biological properties. Le Monnier de Gouville AC, et al. **Life Sci** 1989;45(17):1499–513 (93 ref.)

Endothelium-derived vasoactive factors and regulation of vascular tone in human blood vessels. Lüscher TF. **Lung** 1990;168 Suppl:27–34 (25 ref.)

Receptor-mediated Ca++ entry in blood vessels. Hester RK. **Microcirc Endothelium Lymphatics** 1989 Feb-Apr; 5(1-2):31–53

Divalent cation regulation of endothelial-dependent relaxation in coronary blood vessels. Ku DD. **Microcirc Endothelium Lymphatics** 1989 Feb-Apr; 5(1-2):99–120

Fluid-phase endocytosis by primary cultures of bovine brain microvessel endothelial cell monolayers. Guillot FL, et al. **Microvasc Res** 1990 Jan;39(1):1–14

Vascular endothelial responses to shear stress. Nerem RM. **Monogr Atheroscler** 1990;15:117–24 (35 ref.)

Impairment of endothelium-dependent arterial relaxation by lysolecithin in modified low-density lipoproteins. Kugiyama K, et al. **Nature** 1990 Mar 8;344(6262):160–2

Hyperpolarization and relaxation of arterial smooth muscle caused by nitric oxide derived from the endothelium. Tare M, et al. **Nature** 1990 Jul 5;346(6279):69–71

Expression of an insulin-regulatable glucose carrier in muscle and fat endothelial cells. Vilaró S, et al. **Nature** 1989 Dec 14;342(6251):798–800

Endothelium-dependent relaxant action of platelet activating factor in the rat mesenteric artery. Chiba Y, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Jan-Feb; 341(1-2):68–73

Interaction of plasma clotting factors with vascular endothelial cells in hemostasis and thrombosis with special reference to endothelial cell tissue factor. Narahara N, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec;52(8):1330–6

Endothelium-fibrinolysis system interaction. Sueishi K, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec;52(8):1350–8

Effect of pentosan polysulphate on endothelial regeneration. Herbert JM, et al. **Pathol Biol (Paris)** 1989 Sep;37(7):847–50

Role of an intact endothelium in the vascular action of cadralazine and ISF2405. Buccellati C, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:85–6

Changes of vascular smooth muscle reactivity in hypertensive rats. Lograno MD, et al. **Pharmacol Res** 1989 Nov-Dec; 21(6):719–28

Erythropoietin has a mitogenic and positive chemotactic effect on endothelial cells. Anagnostou A, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5978–82

NG-methyl-L-arginine causes endothelium-dependent contraction and inhibition of cyclic GMP formation in artery and vein. Gold ME, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4430–4

Degranulation of human mast cells induces an endothelial antigen central to leukocyte adhesion. Klein LM, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8972–6

PC12 cells differentiate into chromaffin cell-like phenotype in coculture with adrenal medullary endothelial cells. Mizrachi Y, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(16):6161–5

Involvement of myosin light-chain kinase in endothelial cell retraction. Wysolmerski RB, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):16–20

The receipt and dispatch of chemical messengers by endothelial cells. Botting R, et al. **Prog Clin Biol Res** 1989; 301:1–11 (43 ref.)

Pharmacologic characterization of the contractile activity of peptide leukotrienes in guinea-pig pulmonary artery. Fedyna JS, et al. **Prostaglandins** 1990 May;39(5):541–58

15-Hydroxyeicosatetraenoic acid stimulates migration of human retinal microvessel endothelium in vitro and neovascularization in vivo. Graeber JE, et al. **Prostaglandins** 1990 Jun;39(6):665–73

Endothelium-dependent responses and their potential relevance to the distribution of blood flow during hemorrhagic shock. Miller VM, et al. **Resuscitation** 1989 Dec;18(2-3):165–71 (23 ref.)

Blood vessel physiology and pathophysiology. Miller WL, et al. **Rheum Dis Clin North Am** 1990 May;16(2):251–60 (35 ref.)

The sensitivity of tests to detect in vivo platelet activation induced by the removal of arterial endothelium of the baboon (Papio ursinus). Kotzé HF, et al. **S Afr Med J** 1990 Sep 1;78(5):271–6

Modified porous metal-surfaced Björk-Shiley monostrut heart valve. Long-term study in goats without anticoagulation. Björk VO, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(2):101–4

Optimal microporous surface for endothelialization of metal heart valves in the blood stream. Björk VO, et al. **Scand J Thorac Cardiovasc Surg** 1990;24(2):97–100

Prevention of activated neutrophil adhesion to endothelium by soluble adhesion protein GMP140. Gamble JR, et al. **Science** 1990 Jul 27;249(4967):414–7

Endothelial interleukin-8: a novel inhibitor of leukocyte-endothelial interactions. Gimbrone MA Jr, et al. **Science** 1989 Dec 22;246(4937):1601–3

Effect of aging on endothelium-dependent vascular relaxation of isolated human basilar artery to thrombin and bradykinin. Hatake K, et al. **Stroke** 1990 Jul;21(7):1039–43

Histamine elicits competing endothelium-dependent constriction and endothelium-independent dilation in vivo in mouse cerebral arterioles. Rosenblum WI, et al. **Stroke** 1990 Feb;21(2):305–9

The vascular endothelial cell is central to xenogeneic immune reactivity. Haisch CE, et al. **Surgery** 1990 Aug; 108(2):306–11

Aspirin-independent antithrombotic effects of acutely attached cultured endothelial cells on endarterectomized arteries. Krupski WC, et al. **Surgery** 1990 Aug; 108(2):283–90; discussion 290–1

The effect of vascular cell seeding on platelet deposition in an in vitro capillary perfusion model. Dekker A, et al. **Thromb Haemost** 1989 Jun 30;61(3):402–8

Rat platelets adhere to human thrombin-treated rat lungs under flow conditions. Venturini CM, et al. **Thromb Haemost** 1989 Nov 24;62(3):1006–10

Cyclosporine in vitro reduces endothelium-dependent relaxation to acetylcholine but does not affect relaxation to nitrovasodilators. Dinh Xuan AT, et al. **Transplant Proc** 1990 Aug;22(4):1723–5

Peritubular capillary endothelium controls lymphocyte homing into rejecting kidney allograft. Renkonen R, et al. **Transplant Proc** 1990 Feb;22(1):129

Mechanisms controlling the production of endothelial autacoids. Busse R, et al. **Z Kardiol** 1989;78 Suppl 6:64–9 (33 ref.)

Formation and functional importance of endothelium-derived relaxing factor (EDRF) and prostaglandins in the microcirculation. Förstermann U, et al. **Z Kardiol** 1989;78 Suppl 6:85–91

The role of vascular endothelial cells in the regulation of fibrinolysis. Grulich-Henn J, et al. **Z Kardiol** 1989;78 Suppl 6:25–9 (55 ref.)

Release of the free nitric oxide radical (NO) and EDRF from endothelial cells. Kelm M, et al. **Z Kardiol** 1989;78 Suppl 6:70–4

Endothelium-dependent vascular responses: effect of hypertension and cyclosporin A. Lüscher TF, et al. **Z Kardiol** 1989;78 Suppl 6:132–6 (39 ref.)

The adenosine hypothesis of metabolic regulation of coronary flow in the light of newly recognized properties of the coronary endothelium. Nees S. **Z Kardiol** 1989;78 Suppl 6:42–9 (39 ref.)

Role of the endothelial actin filament cytoskeleton in rheology and permeability. Schnittler H, et al. **Z Kardiol** 1989;78 Suppl 6:1–4

The significance of the endothelium for hypoxic vasodilatation. Siegel G, et al. **Z Kardiol** 1989;78 Suppl 6:124–31

[Blood platelet adhesion. I. Adhesion to the vascular wall and the role of platelet transport] Sixma JJ, et al. **Ned Tijdschr Geneeskd** 1989 Jul 22;133(29):1441–4 **(Dut)**

[Endothelin] Tikkanen I, et al. **Duodecim** 1989;105(19):1573–6 (20 ref.) **(Fin)**

[Inhibition of thrombocyte aggregation and adhesion by endothelium-derived relaxant factor (EDRF) and their pathophysiologic significance] Bassenge E, et al. **Z Kardiol** 1989;78 Suppl 6:54–8 (Eng. Abstr.) **(Ger)**

[The significance of laminin for the stability of endothelial-substrate adhesion in rheologic conditions] Franke RP, et al. **Z Kardiol** 1989;78 Suppl 6:5–8 (Eng. Abstr.) **(Ger)**

[Transport of adenosine across the endothelium of the isolated perfused rat aorta] Schrader J, et al. **Z Kardiol** 1989;78 Suppl 6:50–3 (Eng. Abstr.) **(Ger)**

[Granulocyte adherence] Hrycek A, et al. **Pol Arch Med Wewn** 1987 Mar;77(3):101–4 (15 ref.) **(Pol)**

[The effect of an endothelium-dependent stabilization of a pressure drop in small arteries] NikolʹskiĬ VP, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):649–51 (Eng. Abstr.) **(Rus)**

[Role of the endothelium in the development of reactive hyperemia] Sagach VF, et al. **Biull Eksp Biol Med** 1989 Oct;108(10):421–3 (Eng. Abstr.) **(Rus)**

[Mechanisms involving the endothelium in reaction of reactive hyperemia] Sagach VF, et al. **Biull Eksp Biol Med** 1990 May;109(5):420–2 (Eng. Abstr.) **(Rus)**

[Effects of hypercholesterolemia on the electrical and contractile properties of the blood vessel wall] Taranenko VM, et al. **Biull Eksp Biol Med** 1989 Oct;108(10):400–2 (Eng. Abstr.) **(Rus)**

[Electrophysiologic features of intercellular contacts of endothelial cells] Mokh VP, et al. **Dokl Akad Nauk SSSR** 1989;308(3):744–7 **(Rus)**

[The role of endothelium in the coronary vessel reactive hyperemia reaction] Sagach VF, et al. **Dokl Akad Nauk SSSR** 1989;307(3):765–7 **(Rus)**

[The role of the endothelium in the beta-adrenergic regulation of vascular tonus] Akopov SE, et al. **Fiziol Zh SSSR** 1989 Jun;75(6):813–8 (Eng. Abstr.) **(Rus)**

[The effect of de-endothelialization on the osmotic dilatation of an isolated segment of the rat tail artery] Sergeev IIu, et al. **Fiziol Zh SSSR** 1989 Oct;75(10):1456–8 **(Rus)**

[The reparative regeneration of the endothelium of the aortic bifurcation in rats after cryodestruction] Rekhter MD, et al. **Tsitol Genet** 1990 Mar–Apr;24(2):10–2 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Indomethacin improves the impaired endothelium-dependent relaxations in small mesenteric arteries of the spontaneously hypertensive rat. Lüscher TF, et al. **Am J Hypertens** 1990 Jan;3(1):55–8

Imbalance of endothelium-derived relaxing and contracting factors. A new concept in hypertension? Lüscher TF. **Am J Hypertens** 1990 Apr;3(4):317–30 (146 ref.)

Preeclampsia: an endothelial cell disorder. Roberts JM, et al. **Am J Obstet Gynecol** 1989 Nov;161(5):1200–4

Impaired endothelium-dependent relaxations in hypertensive resistance arteries involve cyclooxygenase pathway. Diederich D, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):H445–51

Leukocyte adherence to venular endothelium during ischemia-reperfusion. Granger DN, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G683–8

The cell biology and pathogenic role of pulmonary intravascular macrophages. Warner AE, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):L1–12 (68 ref.)

Dose- and shear rate-dependent effects of heparin on thrombogenesis induced by rabbit aorta subendothelium exposed to flowing human blood. Insuen W, et al. **Arteriosclerosis** 1990 Jul–Aug;10(4):607–15

Uremic levels of oxalic acid suppress replication and migration of human endothelial cells. Levin RI, et al. **Arteriosclerosis** 1990 Mar–Apr;10(2):198–207

Failure of diltiazem to suppress cholesterol-induced atherogenesis of endothelium-denudated arteries in pigs. Sassen LM, et al. **Atherosclerosis** 1990 Apr;81(3):217–24

Proinflammatory and procoagulant effects of herpes simplex infection on human endothelium. Vercellotti GM. **Blood Cells** 1990;16(1):209–15; discussion 215–6 (11 ref.)

Endothelial repair. Ettenson DS, et al. **Can Med Assoc J** 1990 Mar 15;142(6):601

Leukocyte adhesion to endothelium in inflammation. Osborn L. **Cell** 1990 Jul 13;62(1):3–6 (24 ref.)

Effects of thrombosis on vascular tone in rat mesenteric arteries with endothelium in vivo. Araki H, et al. **Circ Res** 1990 Aug;67(2):312–8

Acute impairment of endothelium-dependent relaxations to aggregating platelets following reperfusion injury in canine coronary arteries. Pearson PJ, et al. **Circ Res** 1990 Aug; 67(2):385–93

Early evidence of endothelial vasodilator dysfunction at coronary branch points. McLenachan JM, et al. **Circulation** 1990 Oct;82(4):1169–73

Ischemia-reperfusion impairs endothelium-dependent relaxation of coronary microvessels but does not affect large arteries. Quillen JE, et al. **Circulation** 1990 Aug; 82(2):586–94

Endothelium-dependent vascular relaxation is abnormal in the coronary microcirculation of atherosclerotic primates. Sellke FW, et al. **Circulation** 1990 May;81(5):1586–93

Time course of endothelial dysfunction and myocardial injury during myocardial ischemia and reperfusion in the cat. Tsao PS, et al. **Circulation** 1990 Oct;82(4):1402–12

Persistent dysfunction of regenerated endothelium after balloon angioplasty of rabbit iliac artery. Weidinger FF, et al. **Circulation** 1990 May;81(5):1667–79

Chronic but not acute treatment with hydralazine reverses the decreased endothelium-dependent responses in spontaneously hypertensive rats. Nigro D, et al. **Clin Exp Hypertens [A]** 1989;11(4):573–86

Endothelium-derived relaxing and contracting factors: potential role in coronary artery disease. Lüscher TF. **Eur Heart J** 1989 Sep;10(9):847–57 (91 ref.)

Vascular endothelial cell function and ultrastructure in thrombotic microangiopathy following allogeneic bone marrow transplantation. Cohen H, et al. **Eur J Haematol** 1989 Sep;43(3):207–14

Endothelium in the pathogenesis of main vascular diseases. Hladovec J. **Folia Haematol (Leipz)** 1989;116(6):887–94

Age and hypertension promote endothelium-dependent contractions to acetylcholine in the aorta of the rat. Koga T, et al. **Hypertension** 1989 Nov;14(5):542–8

The endothelium. Target and promoter of hypertension? Lüscher TF. **Hypertension** 1990 May;15(5):482–5

Blood–nerve barrier of endoneural vessels in experimentally-induced hypothyroidism in rats. Cavaletti G, et al. **Int J Tissue React** 1989;11(3):137–42

Endothelial injury and coronary vasomotion. Chesebro JH, et al. **J Am Coll Cardiol** 1989 Nov 1;14(5):1191–2

Endothelial cell dysfunction: an emerging endocrinopathy linked to coronary disease [editorial; comment] Healy B. **J Am Coll Cardiol** 1990 Aug;16(2):357–8 Comment on: J Am Coll Cardiol 1990 Aug;16(2):349–56.

Large coronary arteries in humans are responsive to changing blood flow: an endothelium-dependent mechanism that fails in patients with atherosclerosis [see comments] Nabel EG, et al. **J Am Coll Cardiol** 1990 Aug;16(2):349–56 Comment in: J Am Coll Cardiol 1990 Aug;16(2):357–8.

Endothelial cell activation during angiogenesis in freely transplanted skeletal muscles in mice and its relationship to the onset of myogenesis. Roberts P, et al. **J Anat** 1990 Apr;169:197–207

Human recombinant interleukin-2 provokes acute pulmonary vascular endothelial injury in rabbits. Goldblum SE, et al. **J Biol Response Mod** 1990 Apr;9(2):127–39

Saccharide expression on wounded endothelial cell monolayers in vitro. Ball RY, et al. **J Cell Sci** 1989 May; 93 (Pt 1):163–72

Unclipping of two-kidney, one clip hypertensive rats produces endothelium-dependent inhibition of sympathetic vasoconstriction. Gerkens JF. **J Hypertens** 1989 Dec; 7(12):961–6

Endothelial dysfunction plays dynamic role in coronary artery disease [news] Goldsmith MF. **JAMA** 1990 Feb 9; 263(6):789–90

Pathophysiological role of endothelin in acute renal failure. Shibouta Y, et al. **Life Sci** 1990;46(22):1611–8

Abnormal endothelium-dependent vascular relaxation in patients with essential hypertension. Panza JA, et al. **N Engl J Med** 1990 Jul 5;323(1):22–7

The effects of type-1 and type-2 diabetes on endothelium-dependent relaxation in rat aorta. Altan VM, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):519–22

Functional abnormalities of the vascular endothelium in hypertension and atherosclerosis. Lüscher TF. **Scand J Clin Lab Invest Suppl** 1990;199:28–32 (13 ref.)

The role of thromboxane (TX) A2 in rabbit arterial thrombosis induced by endothelial damage. Imura Y, et al. **Thromb Res** 1990 Jul 1;59(1):195–205

Endothelium-derived relaxing factor in human coronary artery. Bossaller C, et al. **Z Kardiol** 1989;78 Suppl 6:59–63 (49 ref.)

Role of growth factors in the formation of blood vessels. Risau W, et al. **Z Kardiol** 1989;78 Suppl 6:9–11

Fibroblast growth factor and angiogenesis. Schweigerer L. **Z Kardiol** 1989;78 Suppl 6:12–5 (17 ref.)

Eicosanoids in the local regulation of haemostasis. Sinzinger H, et al. **Z Kardiol** 1989;78 Suppl 6:30–4 (26 ref.)

Endothelium-dependent regulatory mechanisms in human coronary bypass grafts: possible clinical implications. Yang Z, et al. **Z Kardiol** 1989;78 Suppl 6:80–4 (48 ref.)

[Non invasive evaluation of endothelial shearing phenomena in human arteries. Application to essential hypertension] Flaud P, et al. **Arch Mal Coeur** 1989 Jul;82(7):1073–5 (Eng. Abstr.) **(Fre)**

[Role of the endothelium in adult respiratory distress syndrome (ARDS): the present and future] Kirkpatrick CJ, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):261–9 (118 ref.) (Eng. Abstr.) **(Ger)**

[The endothelium—a microcosm of cardiovascular regulation] Stadler T. **Fortschr Med** 1989 Nov 20; 107(33):705–8 (0 ref.) (Eng. Abstr.) **(Ger)**

[Significance of thrombocyte-collagen interaction in arterial laceration] Scola E, et al. **Unfallchirurg** 1990 Feb;93(2):45–8 (22 ref.) (Eng. Abstr.) **(Ger)**

[The endothelium as the central control site of the coagulation cascade] Nawroth PP, et al. **Z Kardiol** 1989; 78 Suppl 6:16–24 (60 ref.) (Eng. Abstr.) **(Ger)**

[Reactivity of the aorta from spontaneously hypertensive rats before and after endothelial removal] Forte D, et al. **Boll Soc Ital Biol Sper** 1990 Feb;66(2):121–7 (Eng. Abstr.) **(Ita)**

[In vitro reactivity of the aorta of SHR rats and Wistar rats, in the various developmental phases of arterial hypertension: role of the endothelium] Vulpis V, et al. **Cardiologia** 1989 Oct;34(10):835–40 (Eng. Abstr.) **(Ita)**

[Disturbance of inhibitory capacity of endothelial cell for platelet adhesion or aggregation following experimental subarachnoid hemorrhage] Ohkuma H, et al. **No Shinkei Geka** 1990 Jan;18(1):47–52 (Eng. Abstr.) **(Jpn)**

[Various aspects of blood platelet activity in arterial hypertension] Berent H, et al. **Pol Tyg Lek** 1989 Jul 23–30; 44(30–31):727–31 (53 ref.) **(Pol)**

[The morphofunctional characteristics of the microvascular endothelium and other structural elements of the lung in the development of gram-negative infection] BarshteĬn IuA, et al. **Arkh Patol** 1990;52(4):9–16 (Eng. Abstr.) **(Rus)**

[Correlations between the endothelium-dependent relaxation of the aorta and arterial pressure in rats with myocardial infarction] Meerson FZ, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):21–4 (Eng. Abstr.) **(Rus)**

[The effect of experimental infarct and emotional-pain stress on the endothelium-dependent reactions of the isolated rat aorta] Manukhina EB, et al. **Fiziol Zh SSSR** 1989 Oct; 75(10):1409–16 (Eng. Abstr.) **(Rus)**

[Study of the role of the endothelium in the development of coronary vessel reactions of different etiologies] Sagach VF, et al. **Kardiologiia** 1990 Jan;30(1):62–5 (Eng. Abstr.) **(Rus)**

[Vascular mechanisms of disorders of rheological properties of the blood in patients with myocardial infarction] Savenkov MP, et al. **Kardiologiia** 1989 Oct;29(10):43–7 (Eng. Abstr.) **(Rus)**

[Functional state of the vascular wall in patients with coronary arteriosclerosis and different types of reactions to psycho- emotional stress] Sokolov EI, et al. **Kardiologiia** 1990 Apr;30(4):69–72 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

The effects of argon laser on bovine aortic endothelial and smooth muscle cell proliferation and collagen production. Graham DJ, et al. **Curr Surg** 1990 Jan–Feb;47(1):27–30

Endothelial cell proliferation in the rat heart following local heart irradiation. Lauk S, et al. **Int J Radiat Biol** 1990 May; 57(5):1017–30

Pharmacological alteration of the lung vascular response to radiation. Graham MM, et al. **Int J Radiat Oncol Biol Phys** 1990 Aug;19(2):329–39

The role of macrophages in the regulation of high endothelial venule expression within the peripheral lymph nodes of mice exposed to ultraviolet radiation. Samlowski WE, et al. **Reg Immunol** 1988 Jul–Aug;1(1):41–55

[Effects of continuous laser on arterial vasomotoricity in vitro] Steg PG, et al. **Arch Mal Coeur** 1989 Oct; 82(10):1753–8 (Eng. Abstr.) **(Fre)**

[Radiation-induced vascular damage and its treatment using percutaneous transluminal angioplasty and local thrombolysis] Suter B, et al. **Vasa Suppl** 1989;27:198–9 **(Ger)**

[The early decrease in the endothelial cells of the cerebral vessels of rats after local irradiation] Eldus LKh, et al. **Radiobiologiia** 1990 Mar–Apr;30(2):266–9 (Eng. Abstr.) **(Rus)**

SECRETION

Stimulus-secretion coupling in vascular endothelial cells. Newby AC, et al. **Annu Rev Physiol** 1990;52:661–74 (100 ref.)

Characterization of endothelin secretion by vascular endothelial cells. Hexum TD, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):294–300

Palmitoyl-L-carnitine increases the release of prostacyclin from vascular endothelial cells. Boeynaems JM, et al. **Biochem Pharmacol** 1989 Oct 1;38(19):3261–6

Human umbilical vein endothelial cells secrete transcobalamin II. Carmel R, et al. **Blood** 1990 Jan 1; 75(1):251–4

Endothelial renin-angiotensin pathway. Adrenergic regulation of angiotensin secretion. Tang SS, et al. **Circ Res** 1990 Jan;66(1):103–8

Release of prostacyclin and EDRF from endothelial cells is differentially controlled by extra- and intracellular calcium. Lückhoff A. **Eicosanoids** 1988;1(1):5–11 (34 ref.)

Components of the angiotensin system cause release of a neutrophil chemoattractant from cultured bovine and human endothelial cells. Farber HW, et al. **Eur Heart J** 1990 Apr;11 Suppl B:100–7

Characterization of a Mr 20,000 basic fibroblast growth factor-like protein secreted by normal and transformed fetal bovine aortic endothelial cells. Maier JA, et al. **Exp Cell Res** 1990 Feb;186(2):354–61

Recombinant gene expression in pulmonary vascular endothelial cells: polarized secretion in vivo. Bernstein SC, et al. **FASEB J** 1990 Jun;4(9):2665–70

Purification and characterization of two related but distinct metalloproteinase inhibitors secreted by bovine aortic endothelial cells. De Clerck YA, et al. **J Biol Chem** 1989 Oct 15;264(29):17445–53

Vectorial secretion of extracellular matrix proteins, matrix-degrading proteinases, and tissue inhibitor of metalloproteinases by endothelial cells. Unemori EN, et al. **J Biol Chem** 1990 Jan 5;265(1):445–51

Non-prostanoid endothelium-derived vasoactive factors. Dinh Xuan AT, et al. **J Int Med Res** 1989 Jul–Aug; 17(4):305–15 (128 ref.)

Effects of endothelium-derived nitric oxide on peripheral arteriolar tone in man. Vallance P, et al. **Lancet** 1989 Oct 28;2(8670):997–1000

Release of tissue plasminogen activator during coronary angioplasty [letter] Weyne A, et al. **Lancet** 1990 Mar 17; 335(8690):658

Increased plasma endothelin level in patients with essential hypertension [letter] Saito Y, et al. **N Engl J Med** 1990 Jan 18;322(3):205

[Variations in the thrombogenic properties of the extracellular matrix produced by endothelial cells in consecutive passages] Aznar-Salatti J, et al. **Sangre (Barc)** 1990 Jun;35(3):173–7 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Seeding of autogenous endothelial cells to inner surface of small-caliber dacron vascular prostheses. An experimental study on canines. Wang ZG, et al. **Chin Med J [Engl]** 1989 Aug;102(8):606–13

[Grafting of a dacron blood vessel seeded with autogenous canine endothelial cells in the vein of dogs] Pu LQ. **Chung Hua I Hsueh Tsa Chih** 1989 Sep;69(9):519–21 **(Chi)**

[A small-caliber synthetic vascular prosthesis prelined with autogenous canine endothelial cells] Shindo S. **Nippon Geka Gakkai Zasshi** 1989 Jun;90(6):933–40 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Myoendothelial junctions in human saphenous veins. Svendsen E, et al. **Acta Anat (Basel)** 1990;138(2):150–3

Experimentally induced acute changes in veins studied by scanning microscopy. Fuchs U, et al. **Acta Morphol Hung** 1989;37(1–2):93–9

Direct effects of Pasteurella haemolytica lipopolysaccharide on bovine pulmonary endothelial cells in vitro. Paulsen DB, et al. **Am J Vet Res** 1989 Sep;50(9):1633–7

Histamine H1-receptor of vascular endothelial cells cultured from guinea pig skin. Noso N, et al. **Arch Dermatol Res** 1990;282(2):115–9

Pored domes in the capillary endothelial cells of teleost (Prochilodus scrofa) intestinal mucosa. Hernandez-Blazquez FJ, et al. **Arch Histol Cytol** 1990 Jul; 53(3):323–6

Preservation and structural adaptation of endothelium over experimental foam cell lesions. Quantitative ultrastructural study. Taylor KE, et al. **Arteriosclerosis** 1989 Nov–Dec; 9(6):881–94

Endothelial monolayer integrity. Perturbation of F-actin filaments and the dense peripheral band-vinculin network. Wong MK, et al. **Arteriosclerosis** 1990 Jan–Feb;10(1):76–84

The distribution of microfilament bundles in rabbit endothelial cells in the intact aorta and during wound healing in situ. Rogers KA, et al. **Biochem Cell Biol** 1989 Sep;67(9):553–62

Leucocyte-induced endothelium-dependent vasodilatation and post-ischaemic vasospasm in the isolated rat superior mesenteric artery. Grossman HJ, et al. **Br J Exp Pathol** 1989 Oct;70(5):515–23

Choroidal endothelial junctions in primates. Nagy AR, et al. **Eye** 1990;4 (Pt 2):290–302

Ultrastructural peculiarities of the endothelium of the testicular vein and vasa vasis in idiopathic varicocele. Christova M. **Folia Med (Plovdiv)** 1988;30(2):18–24

Nicotine and cigarette smoking: effects on the ultrastructure of aortic endothelium. Pittilo RM, et al. **Int J Exp Pathol** 1990 Aug;71(4):573–86

Effects of angiographic contrast media on venous endothelium of rabbits. Thiesen B, et al. **Invest Radiol** 1990 Feb;25(2):121–6

Pseudointima formation in woven and knitted dacron grafts. A comparative ultrastructural analysis. Sottiurai VS, et al. **J Cardiovasc Surg (Torino)** 1989 Sep–Oct;30(5):808–16

Quantitative fine structure of capillaries in subregions of the rat subfornical organ. Shaver SW, et al. **J Comp Neurol** 1990 Apr 1;294(1):145–52

Sinusoidal endothelial cells of the liver: fine structure and function in relation to age. De Leeuw AM, et al. **J Electron Microsc Tech** 1990 Mar;14(3):218–36 (122 ref.)

Three-dimensional ultrastructural distribution of cytoplasmic interdigitation between endothelium and pericyte of capillary in human granulation tissue by serial section reconstruction method. Furusato M, et al. **J Electron Microsc (Tokyo)** 1990;39(2):86–91

Ultrastructural analysis of the endothelial-pericyte relationship in diabetic cutaneous vessels. Braverman IM, et al. **J Invest Dermatol** 1990 Aug;95(2):147–53

Effect of hypoxia on endothelial morphology and interendothelial junctions in the isolated perfused rat heart. Ward BJ, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1337–47

Bovine brain endothelial cells express tight junctions and monoamine oxidase activity in long-term culture. Méresse S, et al. **J Neurochem** 1989 Nov;53(5):1363–71

Immunomodulation of vascular endothelium. 1. Ultrastructural changes following ultraviolet B irradiation of peripheral veins. Marin ML, et al. **J Surg Res** 1990 Feb; 48(2):134–43

Endothelial preservation in human saphenous veins harvested for coronary grafting [letter] [see comments] Barner HB, et al. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):148–9 Comment in: J Thorac Cardiovasc Surg 1990 Jul;100(1):149–50.

Endothelial preservation in human saphenous veins [comment] Lawrie GM. **J Thorac Cardiovasc Surg** 1990 Jul;100(1):149–50 Comment on: J Thorac Cardiovasc Surg 1990 Jul;100(1):148–9.

Effects of pressure on vesicle size, density, and distribution in the canine carotid arterial endothelium. Lee MM, et al. **J Ultrastruct Mol Struct Res** 1988 Nov–Dec; 101(2–3):236–42

Histological changes of the liver in experimental graft-versus-host disease across minor histocompatibility barriers. IV. A study of lymphocyte-endothelial interaction. Nonomura A, et al. **Liver** 1989 Oct; 9(5):294–301

Tridimensional ultrastructure of glomerular capillary endothelium revealed by high-resolution scanning electron microscopy. Lea PJ, et al. **Microvasc Res** 1989 Nov; 38(3):296–308

An ultrastructural study of blood vessels in peripheral nerves of leprosy patients: blood vessels in peripheral nerves. Kumar V, et al. **Nippon Rai Gakkai Zasshi** 1989 Jul–Sep; 58(3):179–84

The biology of hepatic endothelial cell fenestrae. Arias IM. **Prog Liver Dis** 1990;9:11–26 (54 ref.)

Endothelial injury in human atherosclerosis. Pasquinelli G, et al. **Scanning Microsc** 1989 Sep;3(3):971–81; discussion 981–2

Venous fibrinolytic activity and histologic features with distention. Malone JM, et al. **Surg Forum** 1978;29:479–80

Intimal thickening and permeability of arterial autogenous vein graft in a canine poor-runoff model: transmission electron microscopic evidence. Mii S, et al. **Surgery** 1990 Jul;108(1):81–9

Structural alterations in vascular endothelial tight junctions in the course of their gradual degradation in vitro. Mühleisen H, et al. **Tissue Cell** 1989;21(6):803–11

Cyclic AMP-induced configurational change of vascular endothelial cells. Ueda S, et al. **Trans Assoc Am Physicians** 1988;101:297–301

[An electron microscopic study of the morphologic changes in the endothelium in experimental atherosclerosis in pigeons] Li LZ. **Chung Hua Hsin Hsueh Kuan Ping Tsa Chih** 1989 Dec; 17(6):369–70 **(Chi)**

[Infection of human endothelial cells by the virus causing hemorrhagic fever with renal syndrome] Zhu P. **Chung Hua I Hsueh Tsa Chih** 1989 Oct;69(10):588–90 **(Chi)**

[Vascular endothelium—a review. I. General morphology of the vascular endothelium] Alimov GA, et al. **Gegenbaurs Morphol Jahrb** 1989;135(6):887–916 (112 ref.) (Eng. Abstr.) **(Ger)**

[Ultrastructural changes in the endothelial cells of the mesenterial terminal blood stream track during the first two hours of a traumatic hemorrhagic shock (THS)] Kretschmar K, et al. **Gegenbaurs Morphol Jahrb** 1990; 136(3):295–8 (Eng. Abstr.) **(Ger)**

[The process of occlusion and re-construction of the choriocapillaries following dye laser photocoagulation] Katoh N, et al. **Nippon Ganka Gakkai Zasshi** 1990 Feb; 94(2):141–51 (Eng. Abstr.) **(Jpn)**

[The astrocyte-endothelial interface in cerebellar astrocytoma] Uematsu Y, et al. **No Shinkei Geka** 1989 Nov; 17(11):999–1004 (Eng. Abstr.) **(Jpn)**

[A method of scanning electron histoautoradiography] Mironov AA, et al. **Arkh Anat Gistol Embriol** 1989 Aug; 97(8):69–72 **(Rus)**

[Endothelial changes in the pulmonary blood vessels of mice with Lewis lung carcinoma and experimental stress] Nadiradze ZO, et al. **Eksp Onkol** 1990;12(2):51–3 (Eng. Abstr.) **(Rus)**

[An analysis of the endothelial differentiation of the rat aorta during reparative regeneration] Rekhter MD, et al. **Tsitologiia** 1990;32(2):122–7 (Eng. Abstr.) **(Rus)**

[Changes in the vascular endothelium in fetal rabbits during perfusion in vitro] Babál P, et al. **Bratisl Lek Listy** 1990 May;91(5):335–40 (Eng. Abstr.) **(Slo)**

ENDOTOXINS

see related
LIMULUS TEST

Endotoxin. Proceedings of the International Symposium on Bacterial Endotoxins. Japan, May 11–14, 1988. Dedicated to L. Joe Berry. **Adv Exp Med Biol** 1990;256:1–701

Role of platelet-activating factor and eicosanoids during endotoxin-induced lung injury in pigs. Olson NC, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):H1674–86

Effect of endotoxin-induced cell injury on 70-kD heat shock proteins in bovine lung endothelial cells. Rinaldo JE, et al. **Am J Respir Cell Mol Biol** 1990 Sep;3(3):207–16

Serum amyloid A concentrations in cows given endotoxin as an acute-phase stimulant. Boosman R, et al. **Am J Vet Res** 1989 Oct;50(10):1690–4

Pulmonary function and symptoms after inhalation of endotoxin. Rylander R, et al. **Am Rev Respir Dis** 1989 Oct; 140(4):981–6

Biochemistry of endotoxins. Raetz CR. **Annu Rev Biochem** 1990;59:129–70 (252 ref.)

Delta-endotoxins form cation-selective channels in planar lipid bilayers. Slatin SL, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):765–72

Disseminated intravascular coagulation in rabbits induced by administration of endotoxin or tissue factor: effect of anti-tissue factor antibodies and measurement of plasma extrinsic pathway inhibitor activity. Warr TA, et al. **Blood** 1990 Apr 1;75(7):1481–9

International Conference on Endotoxins Amsterdam III. Amsterdam, The Netherlands, June 7–8, 1990. Abstracts. **Circ Shock** 1990 Jun;31(2):239–56

The permeability of dialytic membranes to endotoxins: clinical and experimental findings. Passavanti G, et al. **Int J Artif Organs** 1989 Aug;12(8):505–8

The Bacillus thuringiensis delta-endotoxin. Evidence for a two domain structure of the minimal toxic fragment. Convents D, et al. **J Biol Chem** 1990 Jan 25;265(3):1369–75

Bacterial endotoxin and current concepts in the diagnosis and treatment of endotoxaemia. Bayston KF, et al. **J Med Microbiol** 1990 Feb;31(2):73–83 (84 ref.)

Resolving LAL Test interferences. Cooper JF. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):13–5

Dry heat inactivation of endotoxin on the surface of glass. Ludwig JD, et al. **J Parenter Sci Technol** 1990 Jan–Feb; 44(1):4–12

Variability in the LAL test. McCullough KZ. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):19–21

Understanding and setting endotoxin limits. Weary ME. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):16–8

Evaluation of the endotoxin retention capabilities of inline intravenous filters. Horibe K, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):56–9

Endotoxic properties of chemically synthesized lipid A analogs. Studies on six inflammatory reactions in vivo, and one reaction in vitro. Yoshida M, et al. **Microbiol Immunol** 1989;33(10):797–810

Bacteria, toxins, and the peritoneum. Hau T. **World J Surg** 1990 Mar–Apr;14(2):167–75 (102 ref.)

[Permeability of dialysis membranes for endotoxins. Clinical and experimental results] Passavanti G, et al. **Cas Lek Cesk** 1990 Mar 9;129(10):289–91 (Eng. Abstr.) **(Cze)**

[Effect of inducers and inhibitors of mixed function oxidases on body resistance to endotoxins of gram-negative bacteria] Liniuchev MN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jun;(6):91–4 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Plasma levels of atrial natriuretic factor and catecholamines in endotoxin shock in dogs. Gullichsen E, et al. **Acta Chir Scand** 1989 Nov–Dec;155(11–12):567–71

Renal glucose and lactate metabolism in endotoxin shock in dogs. Gullichsen E, et al. **Acta Chir Scand** 1989 Nov–Dec; 155(11–12):561–5

Increased plasma levels of endothelin-like immunoreactivity during endotoxin administration in the pig. Pernow J, et al. **Acta Physiol Scand** 1989 Oct;137(2):317–8

Effect of a selective V1 vasopressin receptor antagonist on the sequelae of endotoxemia in the conscious rat. Egan JW, et al. **Circ Shock** 1989 Oct;29(2):155–66

Endotoxin-induced uveitis in the rat: a hypothesis for preferential involvement of the anterior uvea. Herbort CP, et al. **Curr Eye Res** 1990;9 Suppl:119–24

Pathogenesis of pulmonary edema associated with intracisternal endotoxin in dogs. Nahum A, et al. **J Appl Physiol** 1990 Apr;68(4):1688–95

Circulating interleukin-1 and tumor necrosis factor in septic shock and experimental endotoxin fever. Cannon JG, et al. **J Infect Dis** 1990 Jan;161(1):79–84

Impairment in the phosphorylation of canine cardiac sarcoplasmic reticulum following endotoxin administration. Mohammed FI, et al. **J Mol Cell Cardiol** 1990 May; 22(5):587–98

[Lowering of bactericidal activity of mouse peritoneal macrophages under combined use of staphylococcal enterotoxin type A and endotoxin] Riabichenko EV, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):591–3 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

The role of inflammatory mediators in airway edema and obstruction produced in guinea pigs exposed to inhaled endotoxin or cotton dusts. Gordon T. **Am J Ind Med** 1990; 17(1):107–8

The effect of endotoxin inhalation on airway responsiveness

and cellular influx in rats. Pauwels RA, et al. **Am Rev Respir Dis** 1990 Mar;141(3):540–5

Health effects of exposure to endotoxins and organic dust in poultry slaughter–house workers. Hagmar L, et al. **Int Arch Occup Environ Health** 1990;62(2):159–64

The effects of intravenous endotoxin on various host–effector molecules. Casale TB, et al. **J Allergy Clin Immunol** 1990 Jan;85(1 Pt 1):45–51

T2 of endotoxin lung injury with and without methylprednisolone treatment. Shioya S, et al. **Magn Reson Med** 1990 Aug;15(2):201–10

Role of endotoxin and glucan for the development of granulomatous disease in the lung. Rylander R. **Sarcoidosis** 1989 Oct;6 Suppl 1:26–7

[An experimental study on the severe type of alcoholic liver disease—a pathogenetic role of poteatiated activation of complement system by endotoxin after chronic ethanol consumption] Arai M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 May;86(5):1089–95 (Eng. Abstr.) **(Jpn)**

[Acute kidney failure (the participation of endotoxin in its pathogenesis)] Permiakov NK, et al. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):77–80 (53 ref.) **(Rus)**

ANALYSIS

Endotoxin size in hemodialysis solutions: modifications in presence of concentrated salt solutions and bacterial products. Goury V, et al. **Adv Exp Med Biol** 1990;256:685–9

Lipoamino acids which are similar to bacterial endotoxin in both structure and biological activity related to physiological function. Kawai Y, et al. **Adv Exp Med Biol** 1990;256:159–62

Chemistry and biology of a novel lipid contaminant of some endotoxin preparations with selective cytotoxicity to transformed cells. Keler T, et al. **Adv Exp Med Biol** 1990; 256:163–84

A new endotoxin–specific assay. Obayashi T. **Adv Exp Med Biol** 1990;256:215–23

Porin as a component of Yersinia pseudotuberculosis endotoxin. Ovodov YS, et al. **Adv Exp Med Biol** 1990; 256:185–7

Bacterial lipopolysaccharides: relationship of structure and conformation to endotoxic activity, serological specificity and biological function. Rietschel ET, et al. **Adv Exp Med Biol** 1990;256:81–99 (43 ref.)

Development of a new quantitative method for detection of endotoxin by fluorescence labeling of 3–hydroxy fatty acid. Tanamoto K. **Adv Exp Med Biol** 1990;256:203–13

Endotoxins of Pseudomonas fluorescens. Zdorovenko GM, et al. **Adv Exp Med Biol** 1990;256:131–5

Endotoxin measurement: aerosol sampling and application of a new Limulus method. Milton DK, et al. **Am Ind Hyg Assoc J** 1990 Jun;51(6):331–7

Airborne endotoxin associated with industrial–scale production of protein products in gram–negative bacteria [letter; comment] Milton DK, et al. **Am Ind Hyg Assoc J** 1989 Aug;50(8):A–594, A–596 Comment on: Am Ind Hyg Assoc J 1988 Aug;49(8):420–1.

Endotoxin and lysosomal protease activity in acute and chronic otitis media with effusion. Sakakura K, et al. **Ann Otol Rhinol Laryngol** 1990 May;99(5 Pt 1):379–85

Microbial and endotoxin contamination in water and dialysate in the central United States. Klein E, et al. **Artif Organs** 1990 Apr;14(2):85–94

Dialysate contamination and back filtration may limit the use of high–flux dialysis membranes. Baurmeister U, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):519–22

Endotoxin levels in farming: absence of symptoms despite high exposure levels. Rask–Andersen A, et al. **Br J Ind Med** 1989 Jun;46(6):412–6

Detection of endotoxin in human in vitro fertilization by the zona–free mouse embryo assay. Montoro L, et al. **Fertil Steril** 1990 Jul;54(1):109–12

Carcinoscorpius rotunda cauda amoebocyte lysate for detection of endotoxins—its preparation, stability, sensitivity and comparison with Limulus amoebocyte lysate. Rao DV, et al. **Indian J Exp Biol** 1989 Jan; 27(1):26–31

Endotoxin and bacterial contamination of dialysis center water and dialysate; a cross sectional survey. Harding GB, et al. **Int J Artif Organs** 1990 Jan;13(1):39–43

Detection of 2–keto–3–deoxyoctonate in endotoxins isolated from six reference strains of the Bacteroides fragilis group. Beckmann I, et al. **Int J Biochem** 1989;21(6):661–6

Morphology of endotoxin–like particles released by Vibrio cholerae non–O1. Strycek T, et al. **Int J Med Microbiol** 1990 May;273(1):24–32

Bacillus thuringiensis insecticidal delta–endotoxin: diversity of crystal proteins and its relatedness to the toxicity spectrum. Haider MZ, et al. **J Basic Microbiol** 1990; 30(4):251–8

Detection of bacterial endotoxins: another step forward [editorial] Nolan JP. **J Lab Clin Med** 1990 Aug; 116(2):140–1

Current practices in endotoxin and pyrogen testing in biotechnology. The Quality Assurance/Quality Control Task Group. Parenteral Drug Association. **J Parenter Sci Technol** 1990 Jan–Feb;44(1):39–45

Recovery of endotoxin preparations from the surface of glass capillary tubes. Ludwig JD, et al. **J Parenter Sci Technol** 1989 Nov–Dec;43(6):276–8

Automation and computerization of chromogenic LAL assay method for bacterial endotoxin using 96–well microtiter plate. Schadewald LK, et al. **J Parenter Sci Technol** 1990 Mar–Apr;44(2):50–3

Detection of endotoxin in affected milk from cows with coliform mastitis. Anri A. **Nippon Juigaku Zasshi** 1989 Aug; 51(4):847–8

Effects of different extraction protocols on endotoxin analyses of airborne grain dusts. Olenchock SA, et al. **Scand J Work Environ Health** 1989 Dec;15(6):430–5

Studies on E coli vaccines: effect of storage on endotoxin content. Hussaini SN. **Vet Rec** 1990 May 5;126(18):459–60

[Proteins and proteinase–resistant polypeptides of delta–endotoxins from Bacillus thuringiensis and their insecticidal activity] Li RS, et al. **Wei Sheng Wu Hsueh Pao** 1989 Dec;29(6):397–404 (Eng. Abstr.) **(Chi)**

[Endotoxinemia—clinical significance] Baek L. **Ugeskr Laeger** 1990 Feb 12;152(7):451–3 **(Dan)**

[Investigation of Limulus test during and after cardiopulmonary bypass—analysis of Limulus positive substance and particles in the cardiopulmonary bypass circuit] Tomiyasu S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Dec; 37(12):2489–94 (Eng. Abstr.) **(Jpn)**

[Measurement of endotoxin in blood products using an endotoxin–specific Limulus test reagent and its relation to pyrogenic activities in rabbit] Fujiwara H, et al. **Yakugaku Zasshi** 1990 May;110(5):332–40 (Eng. Abstr.) **(Jpn)**

[Status of lymphatic vessels, lymph flow and lymph toxicity in patients with obliterating arterial diseases of the lower extremities] Kungurtsev VV, et al. **Khirurgiia (Mosk)** 1990 May;(5):47–50 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Inhibition of endotoxic lipopolysaccharide–mediated platelet aggregation by cobra venom anticomplementary factor. Fong JS, et al. **Blood** 1974 Sep;44(3):399–409

The role of prostacyclin in the protective effects of pentoxifylline and other xanthine derivatives in endotoxin action in mice. Schade UF. **Eicosanoids** 1989;2(3):183–8

Lactulose inhibits endotoxin induced tumour necrosis factor production by monocytes. An in vitro study. Greve JW, et al. **Gut** 1990 Feb;31(2):198–203

Inhibition of endotoxin reactivity by aminoglycosides [letter] Artenstein AW, et al. **J Antimicrob Chemother** 1989 Nov; 24(5):826–8

Inactivation of B. subtilis spores and E. coli endotoxin by ethylene oxide. Pedersen MR, et al. **J Clin Pharm Ther** 1989 Oct;14(5):373–80

Bactericidal/permeability–increasing protein has endotoxin–neutralizing activity. Marra MN, et al. **J Immunol** 1990 Jan 15;144(2):662–6

Protective effect of BN 50739, a new platelet–activating factor antagonist, in endotoxin–treated rabbits. Yue TL, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):976–81

Lactulose as an anti–endotoxin in liver transplantation [letter; comment] **Lancet** 1989 Oct 14;2(8668):927–8 Comment on: Lancet 1989 Jul 22;2(8656):189–91.

Antiendotoxin activity of lipid A analogues: requirements of the chemical structure. Danner RL, et al. **Pharm Res** 1990 Mar;7(3):260–3

BIOSYNTHESIS

Biosynthesis of 130–kilodalton mosquito larvicide in the cyanobacterium Agmenellum quadruplicatum PR–6. Angsuthanasombat C, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2428–30

Endotoxin, antisera and adult respiratory distress syndrome [letter] Wardle EN. **Br J Hosp Med** 1990 Jul;44(1):15

Influence of media composition on the production of delta–endotoxin by Bacillus thuringiensis var. thuringiensis. Mummigatti SG, et al. **J Invertebr Pathol** 1990 Mar; 55(2):147–51

BLOOD

PMN activity and endotoxin kinetics in peritonitis induced after moderate trauma. Røkke O, et al. **Acta Chir Scand** 1989 Oct;155(10):497–502

Endotoxin–induced cytokines in human septicemia. de Vries I, et al. **Adv Exp Med Biol** 1990;256:635–40

A new perchloric acid treatment of human plasma for detection of endotoxin by an endotoxin–specific chromogenic test. Inada K, et al. **Adv Exp Med Biol** 1990; 256:225–9

New therapeutic method against septic shock—removal of endotoxin using extracorporeal circulation. Kodama M, et al. **Adv Exp Med Biol** 1990;256:653–64

Endotoxin and Kupffer cells in liver disease. Tanikawa K, et al. **Adv Exp Med Biol** 1990;256:481–95

Plasma levels of endotoxin and anaphylatoxin in patients with multiple organ failure. Tsubo T, et al. **Agressologie** 1989 Oct–Nov;30(9–10):529–31

Protein phosphorylation in isolated hepatocytes of septic and endotoxemic rats. Deaciuc IV, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1232–40

Left ventricular dysfunction in early E. coli endotoxemia: effects of naloxone. Parker JL, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):H504–11

Blood biochemical response to sodium bicarbonate infusion during sublethal endotoxemia in ponies. Gossett KA, et al. **Am J Vet Res** 1990 Sep;51(9):1370–4

The effects of sepsis and endotoxemia on gut glutamine metabolism. Souba WW, et al. **Ann Surg** 1990 May; 211(5):543–9; discussion 549–51

Ultrafiltration of dialysis fluid for hemodialysis. Bambauer R, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):516–9

A bacterial biofilm in a hemodialysis system. Assessment of disinfection and crossing of endotoxin. Vincent FC, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):310–3

Post–traumatic respiratory distress due to endotoxinaemia and intravascular coagulation. Stoddart JC, et al. **Br J Anaesth** 1974 Nov;46(11):892–6

Early myocardial dysfunction induced with endotoxin in rhesus monkeys. Snow TR, et al. **Can J Cardiol** 1990 Apr; 6(3):130–6

Superoxide anion release from blood and bone marrow neutrophils is altered by endotoxemia. Cerasoli F Jr, et al. **Circ Res** 1990 Jul;67(1):154–65

Contribution of peripheral blood pooling to central hemodynamic disturbances during endotoxin insult in intact dogs. D'Orio V, et al. **Crit Care Med** 1989 Dec; 17(12):1314–9

Correlation of anaphylatoxin levels and survival with bacteremia and endotoxemia in the first 2 hours after trauma. Redan JA, et al. **Curr Surg** 1990 Jan–Feb;47(1):30–2

Thromboxane receptor antagonists and endotoxaemia [letter; comment] Mikhailidis DP, et al. **Eicosanoids** 1989;2(1):59, 61–2 Comment on: Eicosanoids 1988;1(1):27–33.

Spin trapping of free radicals produced in vivo in heart and liver during endotoxemia. Brackett DJ, et al. **Free Radic Res Commun** 1989;7(3–6):315–24

Murine monoclonal antibodies to Klebsiella pneumoniae protect against lethal endotoxemia and experimental infection with capsulated K. pneumoniae. Mandine E, et al. **Infect Immun** 1990 Sep;58(9):2828–33

Whole body plasma extravasation in saline and Haemaccel loaded rats: effects of endotoxemia. van Lambalgen AA, et al. **Int J Microcirc Clin Exp** 1990 Aug;9(3):303–18

Control of endotoxemia in burn patients by use of polymyxin B. Munster AM, et al. **J Burn Care Rehabil** 1989 Jul–Aug; 10(4):327–30

Chromogenic endotoxin assay in plasma. Selection of plasma pretreatment and production of standard curves. Fukui H, et al. **J Clin Chem Clin Biochem** 1989 Dec;27(12):941–6

The role of bile acids in the development of endotoxemia during obstructive jaundice in the rat. Van Bossuyt H, et al. **J Hepatol** 1990 May;10(3):274–9

Prognostic significance of endotoxin determination in patients with severe intraabdominal infection [letter] Függer R, et al. **J Infect Dis** 1990 Jun;161(6):1314–5

Optimization of detection of bacterial endotoxin in plasma with the Limulus test. Roth RI, et al. **J Lab Clin Med** 1990 Aug;116(2):153–61

Superoxide anion generation in the liver during the early stage of endotoxemia in rats. Bautista AP, et al. **J Leukoc Biol** 1990 Aug;48(2):123–8

The relation of endotoxaemia to the cause of death and fatal hepatic damage following obstruction of the portal vein. Shibayama Y. **J Pathol** 1990 Apr;160(4):355–60

Perioperative change of plasma endotoxin levels in early infants. Imura K, et al. **J Pediatr Surg** 1989 Dec; 24(12):1232–5

Endotoxins in heatstroke [editorial] [see comments] **Lancet** 1989 Nov 11;2(8672):1137–8 Comment in: Lancet 1990 Jan 6;335(8680):62.

Endotoxins in heatstroke [letter; comment] Gaffin SL. **Lancet** 1990 Jan 6;335(8680):62 Comment on: Lancet 1989 Nov 11;2(8672):1137–8.

Oxpentifylline in endotoxaemia [see comments] Zabel P, et al. **Lancet** 1989 Dec 23–30;2(8678–8679):1474–7 Comment in: Lancet 1990 Mar 3;335(8688):543.

Sequence of glomerular changes in experimental endotoxemia: a possible model of hemolytic uremic syndrome. Bertani T, et al. **Nephron** 1989;53(4):330–7

Endotoxin concentrations in the blood following intravenous injection and effect on prostaglandin F2 alpha release, calcium and bile acids in goats. Aiumlamai S, et al. **Res Vet Sci** 1990 Mar;48(2):190–5

Continuous removal of leucocytes during early gram–negative septicemia reduces plasma levels of endotoxin and improves cardiac performance. Røkke O, et al. **Scand J Infect Dis** 1990;22(1):79–86

Development and reversal of endotoxemia and endotoxin–related death in obstructive jaundice. Diamond T, et al. **Surgery** 1990 Aug;108(2):370–4; discussion 374–5

Plasminogen activator inhibitor 1 and 2, alpha–2–antiplasmin, plasminogen, and endotoxin levels in systemic meningococcal disease. Brandtzaeg P, et al. **Thromb Res** 1990 Jan 15;57(2):271–8

The quantitative association of plasma endotoxin, antithrombin, protein C, extrinsic pathway inhibitor and fibrinopeptide A in systemic meningococcal disease. Brandtzaeg P, et al. **Thromb Res** 1989 Aug 15;55(4):459–70

Endogenous endotoxemia during orthotopic liver transplantation in dogs. Miyata T, et al. **Transplant Proc** 1989 Oct;21(5):3861–2

Immediate graft function after OLT clears endotoxins. Steininger R, et al. **Transplant Proc** 1990 Aug;22(4):1544–6

Endotoxemia and human liver transplantation. Yokoyama I, et al. **Transplant Proc** 1989 Oct;21(5):3833–41

Detection and clinical relevance of human endotoxemia.

Sturk A, et al. **Z Med Lab Diagn** 1990;31(3):147–58

[Determination of blood endotoxin in severely burned patients and its clinical significance] Zhang YP. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Jun;5(2):100–2, 157 (Eng. Abstr.) **(Chi)**

[Blood endotoxin in acute pancreatitis using limulus amebocyte lysate test (LAL test)] Pierrakakis S, et al. **Minerva Chir** 1990 Mar 15;45(5):295–301 (Eng. Abstr.) **(Ita)**

[Existence of glucan–like activity in the organs of rats. Causes of postoperative elevations of endotoxin using conventional limulus test (toxicolor). Preliminary report] Kikuchi M, et al. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):2052 **(Jpn)**

[Usefulness of endotoxin removal from the septic blood with direct hemoperfusion using PMX–F] Tani T, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1370–3 (Eng. Abstr.) **(Jpn)**

[Significance of endotoxin analysis in clinical tests] Yajima Y. **Nippon Rinsho** 1989 Dec;48 Suppl:512–5 **(Jpn)**

[Mechanism of so–called transient endotoxemia after surgery] Kimura Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr;87(4):1083 **(Jpn)**

[The study of endotoxin levels in portal venous system in liver cirrhosis] Yamamoto Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 Apr;87(4):997–1002 (Eng. Abstr.) **(Jpn)**

[Interference in endotoxin and fungal polysaccharide assays from blood products and antimicrobial agents] Ikemura K, et al. **Rinsho Byori** 1990 Jan;38(1):87–92 (Eng. Abstr.) **(Jpn)**

[A complex method of endotoxemia assessment in peritonitis in the process of corrective therapy] Avakov VE, et al. **Anesteziol Reanimatol** 1989 May–Jun;(3):63–6 (Eng. Abstr.) **(Rus)**

[Pathology of the digestive organs and systemic endotoxinemia] Permiakov NK, et al. **Arkh Patol** 1989; 51(12):74–9 (46 ref.) (Eng. Abstr.) **(Rus)**

[Assessment of the degree and control of the dynamics of endogenous intoxication in purulent–septic states in children] Sleptsov VP, et al. **Klin Khir** 1990;(6):20–2 (Eng. Abstr.) **(Rus)**

[Determination of severity of endotoxicosis in critical conditions in children] Kireev SS, et al. **Pediatriia** 1990; (6):107 **(Rus)**

[The diagnostic importance of the level of middle molecules in assessing the severity of endotoxemia in patients with phlegmons of the face and neck] Zakharov IuS. **Stomatologiia (Mosk)** 1990 May–Jun;69(3):43–4 (Eng. Abstr.) **(Rus)**

[The small intestine in the presence of endotoxins in the blood. Effects of splenectomy] López Muñiz A, et al. **Rev Esp Enferm Apar Dig** 1989 Aug;76(2):109–14 (Eng. Abstr.) **(Spa)**

CEREBROSPINAL FLUID

Cerebrospinal fluid endotoxin levels in children with H. influenzae meningitis before and after administration of intravenous ceftriaxone. Arditi M, et al. **J Infect Dis** 1989 Dec;160(6):1005–11

Cerebrospinal fluid levels with ceftriaxone therapy for Haemophilus influenzae meningitis [letter] Hurley JC. **J Infect Dis** 1990 Oct;162(4):991–3

Increased endotoxin and interleukin–1 beta concentrations in cerebrospinal fluid of infants with coliform meningitis and ventriculitis associated with intraventricular gentamicin therapy. Mustafa MM, et al. **J Infect Dis** 1989 Nov;160(5):891–5

CHEMICAL SYNTHESIS

Chemical synthesis of endotoxin. Kusumoto S, et al. **Adv Exp Med Biol** 1990;256:3–11

GENETICS

Expression of Bacillus thuringiensis delta–endotoxin genes during vegetative growth. Mettus AM, et al. **Appl Environ Microbiol** 1990 Apr;56(4):1128–34

Molecular cloning of the 130–kilodalton mosquitocidal delta–endotoxin gene of Bacillus thuringiensis subsp. israelensis in Bacillus sphaericus. Trisrisook M, et al. **Appl Environ Microbiol** 1990 Jun;56(6):1710–6

The construction of Bacillus thuringiensis strains expressing novel entomocidal delta–endotoxin combinations. Crickmore N, et al. **Biochem J** 1990 Aug 15;270(1):133–6

Construction of genetically engineered baculovirus insecticides containing the Bacillus thuringiensis subsp. kurstaki HD–73 delta endotoxin. Merryweather AT, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1535–44

Nucleotide sequence of a coleopteran–active toxin gene from a new isolate of Bacillus thuringiensis subsp. tolworthi. Sick A, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1305

Molecular cloning and expression of Bacillus thuringiensis subsp. galleriae insecticidal crystal protein genes in Escherichia coli. Chen Q, et al. **Sci China [B]** 1989 Jul; 32(7):830–6

IMMUNOLOGY

The immunological properties of listerial complex Ei. Mára M, et al. **Acta Microbiol Hung** 1989;36(2–3):345–51

Bacterial endotoxin as a probe to investigate viral induced immune deficiencies. Bendinelli M, et al. **Adv Exp Med Biol** 1990;256:511–23 (39 ref.)

Immunoadjuvanticity of endotoxins and nontoxic derivatives for normal and leukemic immunocytes. Friedman H, et al. **Adv Exp Med Biol** 1990;256:525–35

Mechanisms of neutralization of endotoxin by monoclonal antibodies to O and R determinants of lipopolysaccharide. Sagawa T, et al. **Adv Exp Med Biol** 1990;256:341–4

Endotoxin from Haemophilus influenzae enhances IgE–mediated and non–immunological histamine release. Clementsen P, et al. **Allergy** 1990 Jan;45(1):10–7

Serum immunoglobulins to endotoxin core glycolipid: establishment of normal concentrations. Jackson SK, et al. **Arch Dis Child** 1990 Jul;65(7):768–70

Serum immunoglobulins to endotoxin core glycolipid: acute leukaemia and other cancers. Jackson SK, et al. **Arch Dis Child** 1990 Jul;65(7):771–3

Detection of bacteria in dialysate and its antibody in long–term hemodialysis patients. Yamagami S, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):331–3

Changes in anti–endotoxin–IgG antibody and endotoxaemia in three cases of gram–negative septic shock. Barclay GR, et al. **Circ Shock** 1989 Oct;29(2):93–106

Therapy for overwhelming sepsis—clues for treating disease and not just the symptoms [editorial] Zimmerman JJ. **Crit Care Med** 1990 Jan;18(1):118–9

Immunomodulation by bacterial endotoxin. Burrell R. **Crit Rev Microbiol** 1990;17(3):189–208 (125 ref.)

Are bacterial endotoxins involved in autoimmunity by CD5+ (Ly–1+) B cells? van Rooijen N. **Immunol Today** 1989 Oct;10(10):334–6 (28 ref.)

Differential cytokine induction by doses of lipopolysaccharide and monophosphoryl lipid A that result in equivalent early endotoxin tolerance. Henricson BE, et al. **Infect Immun** 1990 Aug;58(8):2429–37

Detection of endotoxin antibody in long–term dialysis patients. Yamagami S, et al. **Int J Artif Organs** 1990 Apr; 13(4):205–10

Initial evaluation of a human immunoglobulin M monoclonal antibody (HA–1A) in humans. Khazaeli MB, et al. **J Biol Response Mod** 1990 Apr;9(2):178–84

Monoclonal antibody to endotoxin core protects mice from Escherichia coli sepsis by a mechanism independent of tumor necrosis factor and interleukin–6. Silva AT, et al. **J Infect Dis** 1990 Aug;162(2):454–9

Harry M. Vars award. Glutamine or fiber supplementation of a defined formula diet: impact on bacterial translocation, tissue composition, and response to endotoxin. Barber AE, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):335–43

[The cross–protective effect and significance of antiserum to R–LPS] Yu XH, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Jul;69(7):399–402 **(Chi)**

[Antigenic structure of endotoxins from Bacillus thuringiensis] Iagudin VIa, et al. **Prikl Biokhim Mikrobiol** 1990 Jan–Feb;26(1):85–92 (Eng. Abstr.) **(Rus)**

[The clinical efficacy of donor plasma with an elevated titer of endotoxin antibodies] Rumiantsev AG, et al. **Ter Arkh** 1989;61(8):123–6 **(Rus)**

[The reticuloendothelial system if the liver in patients with peritonitis] Zhadkevich MM, et al. **Vestn Khir** 1989 Sep; 143(9):138–43 (58 ref.) **(Rus)**

ISOLATION & PURIFICATION

Ultrafiltration to remove endotoxins and other cytokine–inducing materials from tissue culture media and parenteral fluids. Schindler R, et al. **Biotechniques** 1990 Apr;8(4):408–13

Endotoxin removal by anion–exchange polymeric matrix. Hou KC, et al. **Biotechnol Appl Biochem** 1990 Jun; 12(3):315–24

Specific removal of endotoxin from protein solutions by immobilized histidine. Matsumae H, et al. **Biotechnol Appl Biochem** 1990 Apr;12(2):129–40

Immunogenic endotoxin associated protein from a rough strain of Salmonella. Phillips M, et al. **FEMS Microbiol Immunol** 1989 Dec;1(8–9):485–90

Column liquid chromatography of endotoxins. Somlyo B, et al. **J Chromatogr** 1990 Feb 23;525(2):329–38

Endotoxin removal by end–line filters. Vanhaecke E, et al. **J Clin Microbiol** 1989 Dec;27(12):2710–2

METABOLISM

Metabolic fate of endotoxin in rat. Freudenberg M, et al. **Adv Exp Med Biol** 1990;256:499–509 (36 ref.)

Role of middle ear endotoxin in inner ear inflammatory response and hydrops: long–term study. Lim DJ, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Jun;148:33–4

Toxicity of protease–resistant domains from the delta–endotoxin of Bacillus thuringiensis subsp. israelensis in Culex quinquefasciatus and Aedes aegypti bioassays. Pfannenstiel MA, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):162–6

Factors influencing endotoxin concentrations on cotton grown in hot, humid environments: a two year study. DeLucca AJ 2d, et al. **Br J Ind Med** 1989 Dec; 46(12):887–91

Specificity of Bacillus thuringiensis delta–endotoxins. Importance of specific receptors on the brush border membrane of the mid–gut of target insects. Van Rie J, et al. **Eur J Biochem** 1989 Dec 8;186(1–2):239–47

Endotoxin binding, and changes in monocyte sub–populations subsequent to binding, detected by flow cytometry. Williams PE, et al. **FEMS Microbiol Immunol** 1989 Apr;1(5):295–7

Interaction of endotoxic lipid A and lipid X with purified human platelet protein kinase C. Romano M, et al. **J Biol Chem** 1990 Jan 25;265(3):1765–70

Light microscope immunolocation of Bacillus thuringiensis kurstaki delta–endotoxin in the midgut and Malpighian tubules of the tobacco budworm, Heliothis virescens. Ryerse JS, et al. **J Invertebr Pathol** 1990 Jul;56(1):86–90

Wound endotoxin is not a principal mediator of postburn hypermetabolism in rats. Aulick LH, et al. **J Trauma** 1990 Apr;30(4):457–62

Release of endotoxin after antibiotic treatment of Gram–negative bacterial meningitis. Mertsola J, et al. **Pediatr Infect Dis J** 1989 Dec;8(12):904–6

Specificity of Bacillus thuringiensis delta–endotoxins is correlated with the presence of high–affinity binding sites in the brush border membrane of target insect midguts. Hofmann C, et al. **Proc Natl Acad Sci U S A** 1988 Nov; 85(21):7844–8

Endotoxin release from neisseria meningitidis. Relationship between key bacterial characteristics and meningococcal disease. Andersen BM. **Scand J Infect Dis Suppl** 1989; 64:1–43 (279 ref.)

Intestinal endotoxins and macrophages as mediators of liver injury. Nolan JP, et al. **Trans Am Clin Climatol Assoc** 1988; 100:115–25 (34 ref.)

Immunohistochemical localization of Pasteurella haemolytica A1–derived endotoxin, leukotoxin, and capsular polysaccharide in experimental bovine Pasteurella pneumonia. Whiteley LO, et al. **Vet Pathol** 1990 May; 27(3):150–61

[Endotoxin of intestinal microflora in liver pathology] Permiakov NK, et al. **Arkh Patol** 1989;51(9):3–9 (66 ref.) (Eng. Abstr.) **(Rus)**

[The main pathogenetic mechanisms of disorders of the detoxication function of the liver in endogenous toxemia of various etiologies] Krakovskiĭ ME, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):70–6 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Pathogenesis of Treponema hyodysenteriae: induction of interleukin–1 and tumor necrosis factor by a treponemal butanol/water extract (endotoxin). Greer JM, et al. **Microb Pathog** 1989 Oct;7(4):279–88

[Experimental study on the effect of various types of peritonitis and elevation of intra–abdominal pressure on endotoxin absorption] Fujimoto M. **Nippon Geka Gakkai Zasshi** 1989 Dec;90(12):1989–99 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Polymorphonuclear leucocyte activation after trauma: evidence for increased generation of oxygen free radicals in response to in vitro endotoxin stimulation. Røkke O, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):233–9

Effect of detoxification processes on the interferon–inducing activity of bacterial endotoxins. Sourek J, et al. **Acta Microbiol Hung** 1989;36(4):439–43

Stimulation of nonspecific resistance by radio–detoxified endotoxin. Bertok L. **Adv Exp Med Biol** 1990;256:677–80 (19 ref.)

Immunopharmacologic aspects of lipopolysaccharide endotoxin action with special reference to cyclic nucleotides. Hadden JW. **Adv Exp Med Biol** 1990; 256:375–87 (74 ref.)

Modulation of interleukin 1 production by endotoxin, pertussis toxin, and indomethacin. Klein TW, et al. **Adv Exp Med Biol** 1990;256:369–74

Mechanisms of endotoxin stimulation of monocytes in whole blood. Osterud B, et al. **Adv Exp Med Biol** 1990;256:389–98

Various aspects of synergism between endotoxin and MDPs. Parant M, et al. **Adv Exp Med Biol** 1990;256:537–47

Alterations of responses to bacterial endotoxin by Bacteroides fragilis in vivo and in vitro. Rodloff AC, et al. **Adv Exp Med Biol** 1990;256:593–601

The mediation of endotoxin–induced beneficial effects by cytokines. Urbaschek R, et al. **Adv Exp Med Biol** 1990; 256:549–56

Regulation of prostanoids synthesis in human fibroblasts and human blood monocytes by interleukin–1, endotoxin, and glucocorticoids. Raz A, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 199 20:22–7

Carbohydrates inhibit the potentiating effect of bacter endotoxin and virus on basophil histamine release. No S, et al. **Agents Actions** 1990 Apr;30(1–2):53–6

Haemophilus influenzae potentiates basophil histamine rel se possibly by its endotoxins. Norn S, et al. **Agents Actions** 1990 Apr;30(1–2):57–60

Endotoxin–induced increase in leukocyte adherence and macromolecular permeability of postcapillary ver les. Svensjö E, et al. **Agents Actions** 1990 Jan;29(1–2):2 3

Effect of endotoxin on placental metabolism. Experi ental study on the influence of infections with gram–ne ative bacteria during pregnancy. Czeizel E, et al.

Am J Obstet Gynecol 1967 Aug 15;98(8):1129–34
Interleukin 1 and endotoxin activate soluble guanylate cyclase in vascular smooth muscle. Beasley D. Am J Physiol 1990 Jul;259(1 Pt 2):R38–44
Endotoxin inhibits contraction of vascular smooth muscle in vitro. Beasley D, et al. Am J Physiol 1990 Apr;258(4 Pt 2):H1187–92
Systemic and local effects of endotoxin on canine gracilis muscle vascular conductance. Bond RF, et al. Am J Physiol 1990 May;258(5 Pt 2):H1498–506
Beneficial effect of a platelet-activating factor antagonist, WEB 2086, on endotoxin-induced lung injury. Chang SW, et al. Am J Physiol 1990 Jan;258(1 Pt 2):H153–8
Role of endothelium in endotoxin blockade of voltage-sensitive Ca2+ channels in smooth muscle cells. Goligorsky MS. Am J Physiol 1989 Nov;257(5 Pt 1):C875–81
Caudal mediastinal node lymph flow in sheep after histamine or endotoxin infusions. Matsumoto N, et al. Am J Physiol 1990 Jan;258(1 Pt 2):H24–8
Ethanol attenuates endotoxin-enhanced glucose utilization. Molina PE, et al. Am J Physiol 1990 Apr;258(4 Pt 2):R987–93
Effects of endotoxin on iron uptake by the hepatocyte. Potter BJ, et al. Am J Physiol 1989 Oct;257(4 Pt 1):G524–31
Centrally acting vasopressin contributes to endotoxin tolerance. Wilkinson MF, et al. Am J Physiol 1990 Feb; 258(2 Pt 2):R443–9
In vivo endotoxin and IL-1 potentiate insulin secretion in pancreatic islets. Yelich MR. Am J Physiol 1990 Apr;258(4 Pt 2):R1070–7
Influence of endotoxin on the intracortical accumulation kinetics of gentamicin in rats. Tardif D, et al. Antimicrob Agents Chemother 1990 Apr;34(4):576–80
A histological and experimental study on the fate of an increased number of lymph follicles produced in the mouse popliteal lymph node by exogenous antigen stimulation. Hoshi H, et al. Arch Histol Cytol 1989 Dec;52(5):485–91
Incubation with endotoxin activates the L-arginine pathway in vascular tissue. Fleming I, et al. Biochem Biophys Res Commun 1990 Sep 14;171(2):562–8
Involvement of transforming growth factor-alpha secreted by macrophages in metallothionein induction by endotoxin. Iijima Y, et al. Biochem Biophys Res Commun 1989 Oct 16;164(1):114–8
Endotoxin increases the liver fructose 2,6-bisphosphate concentration in fasted rats. Miller BC, et al. Biochem Biophys Res Commun 1989 Dec 29;165(3):1072–8
Endotoxin-stimulated generation of inositol trisphosphate in human promyelocytic leukaemic (HL-60) cells. Qu J, et al. Biochem Soc Trans 1990 Jun;18(3):453–4
Altered responses to modulators of guanine nucleotide binding protein activity in endotoxin tolerance. Coffee KA, et al. Biochim Biophys Acta 1990 Aug 17;1035(2):201–5
Vitamin E stimulates endotoxin-inhibited monocyte migration and phagocytosis in vivo. Rocha NP. Braz J Med Biol Res 1989;22(11):1401–3
Comparison of the effects of several endotoxin preparations on body temperature and metabolic rate in the rat. Horan MA, et al. Can J Physiol Pharmacol 1989 Sep;67(9):1011–4
The effect of endotoxin on 1,2-dimethylhydrazine-induced colonic tumors in rats. Chen MF, et al. Cancer 1990 Apr 15;65(8):1748–52
Endotoxicosis modulates cytosolic free calcium and basal and ACTH-stimulated lipolysis in rat adipocytes. Spitzer JA, et al. Cell Calcium 1990 Jun–Jul;11(6):405–11
Synergistic increases in IL-1 synthesis by the human monocytic cell line THP-1 treated with PAF and endotoxin. Barthelson RA, et al. Cell Immunol 1990 Jan; 125(1):142–50
Intravenous endotoxin recruits a distinct subset of human neutrophils, defined by monoclonal antibody 31D8, from bone marrow to the peripheral circulation. Brown CC, et al. Cell Immunol 1989 Oct 15;123(2):294–306
Expression of human immunodeficiency virus long terminal repeat in the human promonocyte cell line U937: effect of endotoxin and cytokines. Latham PS, et al. Cell Immunol 1990 Sep;129(2):513–8
Dopamine beta-hydroxylase inhibition reveals a selective influence of endotoxin on catecholamine content of rat tissues. Arnold J, et al. Circ Shock 1990 Aug;31(4):387–94
Effect of gram-negative endotoxin on levels of serum corticosterone, TNF alpha, circulating blood cells, and the survival of rats. Feuerstein G, et al. Circ Shock 1990 Mar; 30(3):265–78
Endotoxin-induced impairment of vascular reactivity in the pithed rat: role of arachidonic acid metabolites. Gray GA, et al. Circ Shock 1990 Aug;31(4):395–406
Early changes in glucose utilization of individual tissues after endotoxin administration. Mészáros K, et al. Circ Shock 1989 Oct;29(2):107–14
Endotoxin-induced procoagulant activity, eicosanoid synthesis, and tumor necrosis factor production by rat peritoneal macrophages: effect of endotoxin tolerance and glucan. Moore JN, et al. Circ Shock 1990 Jul;31(3):281–95
Endotoxin-induced tumor necrosis factor activity production by equine peritoneal macrophages. Morris DD, et al. Circ Shock 1990 Mar;30(3):229–36
Endotoxin-induced alterations in renal function with particular reference to tubular enzyme activity. Rao PS, et al. Circ Shock 1990 Jul;31(3):333–42
Effect of dipyridamole on blood glucose and liver cyclic AMP levels and platelet count during endotoxaemia in mice. Al-Jibouri LM, et al. Clin Exp Pharmacol Physiol 1988 Jul;15(7):527–32
Endotoxin, tumor necrosis factor-alpha and interleukin 1 induce interleukin 6 production in vivo. Shalaby MR, et al. Clin Immunol Immunopathol 1989 Dec;53(3):488–98
Effect of endotoxin on digestive enzyme and superoxide dismutase in mouse pancreas. Nonaka A, et al. Digestion 1989;44(3):148–54
In the mouse, the activation of the hypothalamic–pituitary–adrenal axis by a lipopolysaccharide (endotoxin) is mediated through interleukin-1. Rivier C, et al. Endocrinology 1989 Dec; 125(6):2800–5
The effect of endotoxin on membrane fatty acid composition in BCG-sensitized mice. Stark JM, et al. Experientia 1990 May 15;46(5):472–4
Interaction of human monocytes and endothelial cells potentiates the oxidative response to phorbol myristoyl acetate (PMA) and endotoxin in vitro. Howie A, et al. FEMS Microbiol Immunol 1989 Apr;1(5):299–300
Phagocyte responses to endotoxin: intracellular signals and oxidative activity. Leaver HA, et al. FEMS Microbiol Immunol 1989 Apr;1(5):293–4
Macrophage hyperreactivity to endotoxin induced by streptococcal pyrogenic exotoxin in rabbits. Murai T, et al. FEMS Microbiol Lett 1990 Mar 1;56(1–2):61–4
Electron spin resonance detection of oxygen-centred radicals in murine macrophages stimulated with bacterial endotoxin. Jackson SK, et al. Free Radic Biol Med 1989;7(2):165–70
Provocation of massive hepatic necrosis by endotoxin after partial hepatectomy in rats. Mochida S, et al. Gastroenterology 1990 Sep;99(3):771–7
Role of endotoxin-responsive macrophages in hepatic injury. Shiratori Y, et al. Hepatology 1990 Feb;11(2):183–92
Endotoxin-stimulated human macrophages produce a factor that induces polymorphonuclear leucocyte infiltration and is distinct from interleukin-1, tumour necrosis factor alpha and chemotactic factors. Megyeri P, et al. Immunology 1990 Jan;69(1):155–61
Endotoxicosis induced by Coxiella burnetii lipopolysaccharide stimulates a ribosomal protein S6 kinase: some properties of the partially purified enzyme. Picking WD, et al. Infect Immun 1989 Dec;57(12):3683–8
Endotoxic induction of prostaglandin release from macrophages by nontoxic lipid A analogs synthesized chemically. Tanamoto K, et al. Infect Immun 1990 Jan; 58(1):217–21
Endotoxin inhibition of glucocorticoid enzyme induction and in vivo 3H-dexamethasone labelling of rat liver nuclei. Vaptzarova KI, et al. Int J Biochem 1989;21(6):701–5
Effect of endotoxin to differentially affect cytochrome P-450 monooxygenase activities of untreated rats and animals induced with phenobarbital or 3-methylcholanthrene. Coto JA, et al. Int J Immunopharmacol 1989;11(6):623–8
Endotoxin protection of rats from pulmonary oxygen toxicity: possible cytokine involvement. Berg JT, et al. J Appl Physiol 1990 Feb;68(2):549–53
Modulation of lymphatic pumping by lymph-borne factors after endotoxin administration in sheep. Elias RM, et al. J Appl Physiol 1990 Jan;68(1):199–208
Endotoxin induction of murine metallothionein gene expression. De SK, et al. J Biol Chem 1990 Sep 5; 265(25):15267–74
Endotoxin induction of plasminogen activator and plasminogen activator inhibitor type I mRNA in rat tissues in vivo. Quax PH, et al. J Biol Chem 1990 Sep 15; 265(26):15560–3
Prolonged exposure of rat aorta to low levels of endotoxin in vitro results in impaired contractility. Association with vascular cytokine release. McKenna TM. J Clin Invest 1990 Jul;86(1):160–8
Administration of endotoxin, tumor necrosis factor, or interleukin 1 to rats activates skeletal muscle branched-chain alpha-keto acid dehydrogenase. Nawabi MD, et al. J Clin Invest 1990 Jan;85(1):256–63
Interferon gamma drastically modifies the regulation of interleukin 1 genes by endotoxin in U937 cells. Ucla C, et al. J Clin Invest 1990 Jan;85(1):185–91
Bacteroides gingivalis stimulates bone resorption via interleukin-1 production by mononuclear cells. The relative role for B. gingivalis endotoxin. Bom-van Noorloos AA, et al. J Clin Periodontol 1990 Aug;17(7 Pt 1):409–13
Mechanism of endotoxin inhibition of human gingival fibroblast attachment to type I collagen. Pitaru S, et al. J Dent Res 1990 Sep;69(9):1602–6
Endotoxin-responsive sequences control cachectin/tumor necrosis factor biosynthesis at the translational level [published erratum appears in J Exp Med 1990 Mar 1;171(3):971–2] Han J, et al. J Exp Med 1990 Feb 1; 171(2):465–75
An endotoxin-induced factor distinct from interleukin-1 and tumour necrosis factor alpha produced by the THP-1 human macrophage line stimulates polymorphonuclear leukocyte infiltration in vivo. Megyeri P, et al. J Leukoc Biol 1990 Jan;47(1):70–8
Effect of endotoxin on colonisation of Campylobacter jejuni in infant mice. Hänninen ML. J Med Microbiol 1989 Nov; 30(3):199–206
Effects of serum and endotoxin in experimental lung injury. Romero LA, et al. J Pediatr Surg 1990 Aug;25(8):846–8; discussion 849
Endotoxin-induced myocardial depression in rats: effect of ibuprofen and SDZ 64-688, a platelet activating factor receptor antagonist. Baum TD, et al. J Surg Res 1990 Jun; 48(6):629–34
Kupffer cell:hepatocyte cocultures release nitric oxide in response to bacterial endotoxin. Billiar TR, et al. J Surg Res 1990 Apr;48(4):349–53
Interleukin-6 production by endotoxin-stimulated Kupffer cells is regulated by prostaglandin E2. Callery MP, et al. J Surg Res 1990 Jun;48(6):523–7
Endotoxin induces bacterial translocation and increases xanthine oxidase activity. Deitch EA, et al. J Trauma 1989 Dec;29(12):1679–83
Effect of TRK-100, a prostacyclin analogue, on endotoxin-induced enhancement of blood coagulation in rats. Sakai A, et al. Jpn J Pharmacol 1989 Nov;51(3):450–4
Direct effects of endotoxin on the function of the isolated perfused rat kidney. Cohen JJ, et al. Kidney Int 1990 May; 37(5):1219–26
Acute endotoxin-induced lymphocyte subset sequestration in sheep lungs. Duke SS, et al. Lab Invest 1990 Mar; 62(3):355–62
Modulators of macrophage transferrin or transferrin-like protein. Haurani FI, et al. Mol Cell Biochem 1990 Jun 1; 95(1):49–53
Suppression of constitutive cytochrome P-450 gene expression in livers of rats undergoing an acute phase response to endotoxin. Morgan ET. Mol Pharmacol 1989 Nov;36(5):699–707
Effects of endotoxin and anti-inflammatory agents on superoxide dismutase in the rabbit iris. Recasens JF, et al. Ophthalmic Res 1990;22(1):12–8
Renal lesions in young rats induced by Salmonella enteritidis endotoxin. Hurley RM, et al. Pediatr Nephrol 1989 Apr; 3(2):156–61
Endotoxin inhibition of drinking behaviour in the rat. Calapai G, et al. Pharmacol Res 1990 Mar–Apr;22(2):161–70
Nucleotide and amino acid sequence of lymphocyte-derived corticotropin: endotoxin induction of a truncated peptide. Smith EM, et al. Proc Natl Acad Sci U S A 1990 Feb; 87(3):1057–60
Endotoxin extends survival of adult mice in hyperoxia. Berg JT, et al. Proc Soc Exp Biol Med 1990 Feb;193(2):167–70
Effect of Escherichia coli endotoxin on ascorbic acid transport in isolated adrenocortical cells. Garcia R, et al. Proc Soc Exp Biol Med 1990 Apr;193(4):280–4
Stimulation of arachidonate metabolism by endotoxin and the terminal complement complex C5b-8. Suttorp N, et al. Prog Clin Biol Res 1989;301:217–21
Bacterial endotoxin and tumor necrosis factor stimulate prostaglandin production by human decidua. Romero R, et al. Prostaglandins Leukot Essent Fatty Acids 1989 Sep; 37(3):183–6
Haematological changes in buffalo calves inoculated with Escherichia coli endotoxin and corticosteroids. Jain NC, et al. Res Vet Sci 1989 Nov;47(3):305–8
Effects of allopurinol on endotoxin-induced increase in serum xanthine oxidase in the horse. Lochner F, et al. Res Vet Sci 1990 Jul;49(1):104–9
Stimulation of macrophages by endotoxin results in the reactivation of a persistent herpes simplex virus infection. Domke-Opitz I, et al. Scand J Immunol 1990 Aug; 32(2):69–75
Salicylazosulfapyridine (Salazopyrin) effect on endotoxin-induced production of interleukin-1-like factor from human monocytes in vitro. Remvig L, et al. Scand J Rheumatol 1990;19(1):11–6
Effect of a body burn on endotoxin-induced lipid peroxidation: comparison with physiologic and histologic changes. Demling RH, et al. Surgery 1990 Jun; 107(6):669–76
Effect of heparin and/or antithrombin III on the generation of endotoxin-induced plasminogen activator inhibitor. Gómez C, et al. Thromb Haemost 1989 Sep 29;62(2):694–8
[Peritoneal macrophages disappearance—Nelson-Boyden reaction—caused by the polysaccharide moiety of Salmonella minnesota endotoxin] Radu I, et al. Arch Roum Pathol Exp Microbiol 1979 Jul–Dec; 38(3–4):347–52 (Eng. Abstr.) (Fre)
[Role of protein C in endotoxin-induced release of plasminogen activator inhibitor from endothelial cell] Okajima K, et al. Nippon Ketsueki Gakkai Zasshi 1989 Nov; 52(7):1159–64 (Eng. Abstr.) (Jpn)
[The role of bitoxibacillin components in the manifestation of its biological activity] Efimtsev EI, et al. Antibiot Khimioter 1989 Nov;34(11):841–6 (Eng. Abstr.) (Rus)
[The eosinophil—the human blood cell superaffined to endotoxin] Iakovlev MIu, et al. Biull Eksp Biol Med 1989 Jun;107(6):765–6 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Virulence attributes of the liposaccharides of the HAP group organisms. Fenwick BW. Can J Vet Res 1990 Apr;54 Suppl:S28–32 (67 ref.)
Endotoxin-induced plasma exudation in guinea-pig airways in vivo and the effect of neutrophil depletion. Evans TW, et al. Eur Respir J 1990 Mar;3(3):299–303
Necrotizing enterocolitis: role of platelet activating factor, endotoxin, and tumor necrosis factor. Caplan MS, et al. J Pediatr 1990 Jul;117(1 Pt 2):S47–51 (16 ref.)

[Mechanism of action of endotoxins in chronic renal failure] Aklaev RN, et al. **Ter Arkh** 1989;61(6):70–2 (Eng. Abstr.) **(Rus)**

POISONING

The biology of Coxiella burnetti and the pathobiochemistry of Q fever and its endotoxicosis. Paretsky D. **Ann N Y Acad Sci** 1990;590:416–21

Sympathico–adrenal effects of endotoxaemia in cattle. Boosman R, et al. **Vet Rec** 1990 Jul 7;127(1):11–4

RADIATION EFFECTS

Response of humans to gamma–irradiated reference Escherichia coli endotoxin. Elin RJ, et al. **J Clin Lab Immunol** 1989 May;29(1):17–23

THERAPEUTIC USE

Immunotherapy with bacterial endotoxins. Rudbach JA, et al. **Adv Exp Med Biol** 1990;256:665–76 (35 ref.)

TOXICITY

Endotoxin–induced otitis media with effusion in the mouse. Immunohistochemical analysis. Krekorian TD, et al. **Acta Otolaryngol (Stockh)** 1990 Mar–Apr;109(3–4):288–99

The influence of flunixin on the response to Salmonella typhimurium endotoxin in calves. Luthman J, et al. **Acta Vet Scand** 1989;30(3):295–300

The in vivo lipolytic effect of Salmonella typhimurium endotoxin. Luthman J, et al. **Acta Vet Scand** 1989; 30(3):363–5

Mechanisms of the lethal action of endotoxin and endotoxin hypersensitivity. Galanos C, et al. **Adv Exp Med Biol** 1990; 256:603–19 (30 ref.)

Structural requirements of lipid A for endotoxicity and other biological activities—an overview. Kotani S, et al. **Adv Exp Med Biol** 1990;256:13–43 (61 ref.)

Lipid A precursors protect against endotoxin challenge. Proctor RA. **Adv Exp Med Biol** 1990;256:641–52 (52 ref.)

Short–term TPN containing n–3 fatty acids ameliorate lactic acidosis induced by endotoxin in guinea pigs. Pomposelli JJ, et al. **Am J Clin Nutr** 1990 Sep;52(3):548–52

Hepatic changes produced by a single dose of endotoxin in the mouse. Light microscopy and histochemistry. Levy E, et al. **Am J Pathol** 1967 Aug;51(2):269–85

Effects of in vivo 'priming' on endotoxin–induced hypotension and tissue injury. The role of PAF and tumor necrosis factor. Sun XM, et al. **Am J Pathol** 1990 Apr; 136(4):949–56

Lung lymph capillary injury–related protease. Orlowski M, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):L202–8 (36 ref.)

Effect of Pasteurella haemolytica–derived endotoxin on pulmonary structure and function in calves. Slocombe RF, et al. **Am J Vet Res** 1990 Mar;51(3):433–8

Preventive effects of indomethacin on diaphragmatic contractile alterations in endotoxemic rats. Boczkowski J, et al. **Am Rev Respir Dis** 1990 Jul;142(1):193–8

Dibutyryl–cAMP blocks endotoxin–induced lung injury in rats. Chang SW, et al. **Am Rev Respir Dis** 1989 Dec; 140(6):1814–7

Toxicity of intratracheally instilled cotton dust, cellulose, and endotoxin. Milton DK, et al. **Am Rev Respir Dis** 1990 Jul; 142(1):184–92

Outer hair cells as potential targets of inflammatory mediators. Huang M, et al. **Ann Otol Rhinol Laryngol Suppl** 1990 Jun;148:35–8

Platelet activating factor receptor antagonist improves survival and attenuates eicosanoid release in severe endotoxemia. Fletcher JR, et al. **Ann Surg** 1990 Mar; 211(3):312–6

Reduced amino acid transport in skeletal muscle caused by a circulating factor during endotoxemia. Warner BW, et al. **Ann Surg** 1990 Mar;211(3):323–8

Prolonged endotoxemia enhances the renal injuries induced by gentamicin in rats. Auclair P, et al. **Antimicrob Agents Chemother** 1990 May;34(5):889–95

Endotoxin tolerance is associated with reduced secretion of tumor necrosis factor. Sanchez–Cantu L, et al. **Arch Surg** 1989 Dec;124(12):1432–5; discussion 1435–6

Leukocyte alterations do not account for hepatitis induced by endotoxin or TNF alpha in galactosamine–sensitized mice. Tiegs G, et al. **Biochem Pharmacol** 1990 Sep 15; 40(6):1317–22

Studies on the hepatotoxicity of galactosamine/endotoxin or galactosamine/TNF in the perfused mouse liver. Wang JF, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):267–70

Comparison of endotoxins and cutaneous burn toxin as immunosuppressants. Sparkes BG, et al. **Burns** 1990 Apr; 16(2):123–7

Effects of recombinant human superoxide dismutase on increased lung vascular permeability and respiratory disorder in endotoxemic rats. Schneider J, et al. **Circ Shock** 1990 Feb;30(2):97–106

Influence of human transferrin and group–specific protein on endotoxicity in vitro. Berger D, et al. **Clin Chim Acta** 1990 Jul;189(1):1–5

Hypoperfusion of the small intestine during slow infusion of a low dosage of endotoxin in anesthetized horses. Clark ES, et al. **Cornell Vet** 1990 Apr;80(2):163–72

Concentration–dependent, stereoselective inhibition of the endotoxin–induced hemoconcentration in conscious rats with the peptidoleukotriene receptor antagonist SK & F 104353. Smith EF 3d, et al. **Eicosanoids** 1989;2(2):101–7

Haemodynamic, pathological, haematological and behavioural changes during endotoxin infusion in equine neonates. Lavoie JP, et al. **Equine Vet J** 1990 Jan;22(1):23–9

Effect of Escherichia coli endotoxin on cochlear potentials following its application to the chinchilla middle ear. Morizono T, et al. **Eur Arch Otorhinolaryngol** 1990; 247(1):40–2

The toxicity of two Bacillus thuringiensis delta–endotoxins to gypsy moth larvae is inversely related to the affinity of binding sites on midgut brush border membranes for the toxins. Wolfersberger MG. **Experientia** 1990 May 15; 46(5):475–7

Production of leukotriene B4 in parenchymal and sinusoidal cells of the liver in rats treated simultaneously with D–galactosamine and endotoxin. Shiratori Y, et al. **Gastroenterol Jpn** 1989 Dec;24(6):640–5

Suppression of cellular immunity in obstructive jaundice is caused by endotoxins: a study with germ–free rats. Greve JW, et al. **Gastroenterology** 1990 Feb;98(2):478–85

Ocular inflammatory effects of intravitreally injected tumor necrosis factor–alpha and endotoxin. Fleisher LN, et al. **Inflammation** 1990 Jun;14(3):325–35

Blunted febrile response to intravenous endotoxin in starved rats. Shido O, et al. **J Appl Physiol** 1989 Sep;67(3):963–9

Alveolar cell pattern and chemiluminescence response of blood neutrophils and alveolar macrophages in sheep after endotoxin injection. Dwenger A, et al. **J Clin Chem Clin Biochem** 1990 Mar;28(3):163–8

The acute splanchnic and peripheral tissue metabolic response to endotoxin in humans. Fong YM, et al. **J Clin Invest** 1990 Jun;85(6):1896–904

Human very low density lipoproteins and chylomicrons can protect against endotoxin–induced death in mice. Harris HW, et al. **J Clin Invest** 1990 Sep;86(3):696–702

Primed stimulation of isolated perfused rabbit lung by endotoxin and platelet activating factor induces enhanced production of thromboxane and lung injury. Salzer WL, et al. **J Clin Invest** 1990 Apr;85(4):1135–43

The effects of endotoxin pretreatment on subsequent challenge of mice with cycloheximide and a small dose of endotoxin. Parry EW. **J Comp Pathol** 1989 Nov; 101(4):381–8

Physiological responses to intramammary or intravenous treatment with endotoxin in lactating dairy cows. Jackson JA, et al. **J Dairy Sci** 1990 Mar;73(3):627–32

Endotoxin increases the nephrotoxic potential of gentamicin and vancomycin plus gentamicin. Ngeleka M, et al. **J Infect Dis** 1990 Apr;161(4):721–7

Oxygen–derived free radicals mediate the cutaneous necrotizing vasculitis induced by epinephrine in endotoxin–primed rabbits. Ward PH, et al. **J Infect Dis** 1990 May;161(5):1020–2

Experimental endotoxemia in pregnancy: in situ glomerular microthrombus formation associated with impaired glomerular adenosine diphosphatase activity. Bakker WW, et al. **J Lab Clin Med** 1989 Nov;114(5):531–7

Sensitivity to endotoxin is induced by increased membrane fatty–acid unsaturation and oxidant stress. Stark JM, et al. **J Med Microbiol** 1990 Aug;32(4):217–21 (32 ref.)

Endotoxaemia and hepatic injury in obstructive jaundice. Shibayama Y. **J Pathol** 1989 Dec;159(4):335–9

Kinin antagonist does not protect against the hypotensive response to endotoxin, anaphylaxis or acute pancreatitis. Berg T, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):731–4

Effects of protein malnutrition and endotoxin on the intestinal mucosal barrier to the translocation of indigenous flora in mice. Li M, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):572–8

Mono–hydroxyeicosatetraenoic acids during porcine endotoxemia. Effect of a platelet–activating factor receptor antagonist. Olson NC, et al. **Lab Invest** 1990 Aug; 63(2):221–32

The effects of the calcium entry blockers, nilvadipine and nitrendipine, on endotoxin–induced disseminated intravascular coagulation. Lee HC, et al. **Life Sci** 1989; 45(10):877–83

Tolerance to endotoxin in vitro: independent regulation of interleukin–1, tumor necrosis factor and interferon alpha production during in vitro differentiation of human monocytes. Lepe–Zuniga JL, et al. **Lymphokine Res** 1990 Fall;9(3):309–19

The cardiovascular response to endotoxin [letter; comment] **N Engl J Med** 1989 Dec 28;321(26):1828–30 Comment on: N Engl J Med 1989 Aug 3;321(5):280–7.

Adverse effects of a proposed equine sublethal endotoxin model. Stadler P, et al. **Onderstepoort J Vet Res** 1989 Sep; 56(3):207–9

Possible mediators in endotoxin–induced abortion. Parant M. **Res Immunol** 1990 Feb;141(2):164–8 (28 ref.)

Effects of endotoxin infusion on circulating levels of eicosanoids, progesterone, cortisol, glucose and lactic acid, and abortion in pregnant cows. Giri SN, et al. **Vet Microbiol** 1990 Jan;21(3):211–31

A clinical and endocrine study on the effect of orally administered bacterial endotoxin in adult pigs and goats. Cort N, et al. **Zentralbl Veterinarmed [A]** 1990 Mar; 37(2):130–7

Clinical, endocrinological and spermatological studies after endotoxin injection in the boar. Wallgren M. **Zentralbl Veterinarmed [A]** 1989 Nov;36(9):664–75

[Ultrastructural changes in the histohematic barrier of the liver in the early period after endotoxin administration] Barshtein IuA, et al. **Biull Eksp Biol Med** 1989 Sep; 108(9):365–9 (Eng. Abstr.) **(Rus)**

URINE

Detection of endotoxiuria in polycystic kidney disease patients by the use of the Limulus amebocyte lysate assay. Miller MA, et al. **Am J Kidney Dis** 1990 Feb;15(2):117–22

[Rapid diagnosis of gram–negative bacteriuria with endotoxin–specific chromogenic test] Aoyama E, et al. **Rinsho Byori** 1989 Nov;37(11):1274–8 (Eng. Abstr.) **(Jpn)**

ENDOWMENTS see **FINANCIAL MANAGEMENT**

ENDRIN

ANALYSIS

Concentrations of selected chlorinated pesticides in shrimp collected from the Calcasieu River/Lake Complex, Louisiana. Murray HE, et al. **Bull Environ Contam Toxicol** 1990 May;44(5):798–804

POISONING

A surprising case of endrin poisoning in dogs. Quick MP, et al. **J Forensic Sci Soc** 1989 Sep–Oct;29(5):331–8

[Endrin poisoning] Carbajal–Rodríguez L, et al. **Bol Med Hosp Infant Mex** 1990 Feb;47(2):100–2 (Eng. Abstr.) **(Spa)**

TOXICITY

Protective effects of antioxidants against endrin–induced lipid peroxidation, glutathione depletion, and lethality in rats. Numan IT, et al. **Arch Environ Contam Toxicol** 1990 May–Jun;19(3):302–6

ENEMA

The value of barium enema and colonoscopy in patients infected with HIV. Connolly GM, et al. **AIDS** 1990 Jul; 4(7):687–9

Double–contrast enema: a simplified method for filling the colon [see comments] Gelfand DW, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):279–80 Comment in: AJR Am J Roentgenol 1990 Jul;155(1):195.

Sucralfate enemas in the treatment of chronic postradiation proctitis [letter] Ladas SD, et al. **Am J Gastroenterol** 1989 Dec;84(12):1587–9

Results of routine preoperative sigmoidoscopy and barium enema on patients with inguinal hernia. Barbee CL, et al. **Am Surg** 1975 Jan;41(1):28–31

Intoxication after an isopropyl alcohol enema [letter] Barnett JM, et al. **Ann Intern Med** 1990 Oct 15;113(8):638–9

Late radiation injury of the rectum and sigmoid colon: barium enema findings in 92 patients. den Hartog Jager FC, et al. **Br J Radiol** 1989 Sep;62(741):807–12

A new positioning technique for barium enemas. Hughes T. **Br J Radiol** 1990 Sep;63(753):723

Carbon dioxide methods of double contrast barium enemas [letter; comment] Pochaczevsky R. **Clin Radiol** 1989 Nov; 40(6):656–7 Comment on: Clin Radiol 1989 May;40(3):318.

Enteroclysis—a technique for examining the small bowel. Lappas JC, et al. **Crit Rev Diagn Imaging** 1990; 30(2):183–217 (66 ref.)

Quantitative distribution of radiolabeled 5–aminosalicylic acid enemas in patients with left–sided ulcerative colitis. Vitti RA, et al. **Dig Dis Sci** 1989 Nov;34(11):1792–7

Current preoperative bowel cleansing methods. Results of a survey. Beck DE, et al. **Dis Colon Rectum** 1990 Jan; 33(1):12–5

The effect of laxatives and enemas on the sonographic visibility of the pancreas. Nilsson A, et al. **Eur J Radiol** 1990 Mar–Apr;10(2):124–5

The assessment of colonic water retention prior to double–contrast enema. Pietilä JA, et al. **Gastrointest Radiol** 1990 Spring;15(2):164–8

Retrograde spread of therapeutic enemas in patients with inflammatory bowel disease. van Buul MM, et al. **Hepatogastroenterology** 1989 Aug;36(4):199–201

Indications for barium enema preceding colostomy closure in trauma patients. Atweh NA, et al. **J Trauma** 1989 Dec; 29(12):1641–2

Endoscopy compared with barium meal [letter] Mendelson RM. **Med J Aust** 1989 Dec 4–18;151(11–12):725

Anaphylaxis as a rare complication of a barium enema examination. Wasser MN, et al. **Neth J Med** 1989 Oct; 35(3–4):147–50

Enema or Picolax as preparation for flexible sigmoidoscopy? Hickson DE, et al. **Postgrad Med J** 1990 Mar;66(773):210–1

The barium enema: the role of the radiographer. **Radiogr Today** 1989 Mar;55(622):13

Role of rectal formulations: enemas. Campieri M, et al. **Scand J Gastroenterol Suppl** 1990;172:63–5

Barium enema in the diagnosis of acute appendicitis. el Ferzli G, et al. **Surg Gynecol Obstet** 1990 Jul;171(1):40–2

Childhood intussusception. Skipper RP, et al. **Surg Gynecol Obstet** 1990 Aug;171(2):151–3

[Comparative evaluation of a new colon preparation method prior to a double–contrast barium enema: toward

discontinuation of the cleansing enema] Mahieu PH. **J Belge Radiol** 1989 Dec;72(6):475–9 (Eng. Abstr.) **(Fre)**

[Colonic contrast enema in digital luminescent radiography (DLR) and conventional x-ray technic] Krug B, et al. **ROFO** 1990 Feb;152(2):131–6 (Eng. Abstr.) **(Ger)**

[Maralavin in the treatment of chronic colitis] Kazanbiev NK, et al. **Sov Med** 1990;(4):71–3 **(Rus)**

ADVERSE EFFECTS

Anaphylactic reaction to barium enema [letter] al-Mudallal R, et al. **Am J Med** 1990 Aug;89(2):251

Iatrogenic hypocalcemic tetany. Edmondson S, et al. **Ann Emerg Med** 1990 Aug;19(8):938–40

Sodium polystyrene-sorbitol enemas [letter; comment] Burnett RJ. **Ann Intern Med** 1990 Feb 15;112(4):311–2 Comment on: Ann Intern Med 1989 Dec 1;111(11):947–9.

Colonic necrosis with Kayexalate-sorbitol enemas after renal transplantation [see comments] Wootton FT, et al. **Ann Intern Med** 1989 Dec 1;111(11):947–9 Comment in: Ann Intern Med 1990 Feb 15;112(4):311–2.

Severe magnesium toxicity after magnesium sulphate enema in a chronically constipated child. Ashton MR, et al. **BMJ** 1990 Feb 24;300(6723):541

Spontaneous dissection of air into the transverse mesocolon during double-contrast barium enema. Cho KC, et al. **Gastrointest Radiol** 1990 Winter;15(1):76–7

Complications of the "Mayo" enema. A lesson in iatrogenic illness. Huang AR, et al. **J Am Geriatr Soc** 1990 Apr; 38(4):470–2

Colonic perforation with a phosphate enema. Bell AM. **J R Soc Med** 1990 Jan;83(1):54–5

Pneumatic reduction: advantages, risks and indications. Stringer DA, et al. **Pediatr Radiol** 1990;20(6):475–7

Peptic ulcer perforation: a complication of double contrast barium meal examination. Shimi SM. **Scott Med J** 1989 Aug;34(4):500

ECONOMICS

Evaluation and therapy of the patient with fecal occult blood loss: a decision analysis. Lashner BA, et al. **Am J Gastroenterol** 1990 Sep;85(9):1088–95

INSTRUMENTATION

Experience with the Merck small bowel enema tube. Chippindale AJ, et al. **Clin Radiol** 1989 Sep;40(5):518–9

Patient error with self-administered enemas. **Health Devices** 1990 Mar;19(3):101–2

Successful management of faecal incontinence using the enema continence catheter. Walker J, et al. **Z Kinderchir** 1989 Dec;44 Suppl 1:44–5

Faecal incontinence—Willis Home Bowel Washout Programme. Willis RA. **Z Kinderchir** 1989 Dec;44 Suppl 1:46–7

[Comment on the paper "Initial experiences with the mechanically controlled colon contrast enema"] Petrik R. **Radiol Diagn (Berl)** 1990;31(1):87–9 **(Ger)**

METHODS

Pumps in double-contrast enemas [letter; comment] Hall FM. **AJR Am J Roentgenol** 1990 Jul;155(1):195 Comment on: AJR Am J Roentgenol 1990 Feb;154(2):279–80.

Enteroscopy and enteroclysis: the combined procedure. Cohen ME, et al. **Am J Gastroenterol** 1989 Nov; 84(11):1413–5

The influence of tube type and operator experience on performance of small bowel enema [letter; comment] Bisset R. **Br J Radiol** 1989 Oct;62(742):953–4 Comment on: Br J Radiol 1989 May;62(737):447–9.

Determining the minimal interval between cleansing water enema and double-contrast barium enema examination. Lee SH, et al. **Clin Radiol** 1990 May;41(5):331–2

[Small intestine wash-out: technic and indications in acute severe chloroquine poisoning in underdeveloped surgical environments] Steiner E, et al. **Ann Chir** 1990;44(5):411–2 (Eng. Abstr.) **(Fre)**

UTILIZATION

Barium enema utilization within a defined geographic region: a survey. Rex DK, et al. **Gastrointest Radiol** 1990 Summer; 15(3):265–7

VETERINARY

Comparison of an orally administered gastrointestinal lavage solution with traditional enema administration as preparation for colonoscopy in dogs. Richter KP, et al. **J Am Vet Med Assoc** 1989 Dec 15;195(12):1727–31

ENERGY EXPENDITURE see **ENERGY METABOLISM**

ENERGY-GENERATING RESOURCES

see related
POWER PLANTS
POWER SOURCES

Computer on the mountain: technology in remote areas of the developing world. Lee RV. **J Clin Epidemiol** 1990; 43(8):841–3

Health risks: DoE to give up studies? [news] Anderson GC. **Nature** 1990 Mar 8;344(6262):92

Nutritional impacts of an increasing fuelwood shortage in rural households in developing countries. Brouwer ID, et al. **Prog Food Nutr Sci** 1989;13(3–4):349–61 (44 ref.)

[Occupational hygiene problems in a plant for biological gas production] Schlegel ER, et al. **Z Gesamte Hyg** 1989; 35(8):483–5 (Eng. Abstr.) **(Ger)**

[Pollution and alternative energy sources] Melino C. **Ann Ig** 1989 Jan-Apr;1(1–2):87–108 (19 ref.) (Eng. Abstr.) **(Ita)**

[Problems of prognosis of oncologic risk] Miretskii GI, et al. **Gig Sanit** 1989 Aug;(8):66–7 **(Rus)**

ENERGY METABOLISM

Potential usefulness of a physical activity index in the assessment of quality of life of patients after gastrointestinal surgery. Sakamoto K, et al. **Acta Chir Scand** 1989 Jun-Jul; 155(6–7):305–12

Effect of prolonged overnight fasting on energy metabolism in non-insulin-dependent diabetic and non-diabetic subjects. Groop LC, et al. **Acta Endocrinol (Copenh)** 1990 Jul;123(1):30–6

Cell metabolic activity in acromegaly: a microcalorimetric study of lymphocyte metabolism. Valdemarsson S, et al. **Acta Endocrinol (Copenh)** 1990 Apr;122(4):422–6

Neurometabolic monitoring of the ischaemic human brain using microdialysis. Hillered L, et al. **Acta Neurochir (Wien)** 1990;102(3–4):91–7

Measurement of local haematocrit, energy metabolism and haemodynamics in cerebral ischaemia with positron tomography. Frackowiak RS. **Acta Neurol Scand Suppl** 1989;127:14–21 (26 ref.)

1—(13)C-octanoate oxidation, energy expenditure and vitamin B2 supplement in premature infants. Patterson BE, et al. **Acta Paediatr Scand** 1989 Sep;78(5):780–1

Cardiovascular and metabolic responses to static contraction in man. Gaffney FA, et al. **Acta Physiol Scand** 1990 Mar; 138(3):249–58

Immune function in dairy cows related to energy balance and metabolic status in early lactation. Ropstad E, et al. **Acta Vet Scand** 1989;30(2):209–19

Energy metabolism of the newborn infant. Whyte RK, et al. **Adv Nutr Res** 1990;8:79–108 (127 ref.)

Energy supplementation and the nutritional status of hemodialysis patients. Allman MA, et al. **Am J Clin Nutr** 1990 Apr;51(4):558–62

Energy utilization of breast-fed and formula-fed infants. Butte NF, et al. **Am J Clin Nutr** 1990 Mar;51(3):350–8

Overfeeding: cardiovascular and metabolic response during continuous formula infusion in adult humans. Casper K, et al. **Am J Clin Nutr** 1990 Oct;52(4):602–9

Energy metabolism of overweight women 1 mo and 1 y after an 8-wk slimming period. de Groot LC, et al. **Am J Clin Nutr** 1990 Apr;51(4):578–83

Enteral nutrition with structured lipid: effect on protein metabolism in thermal injury. DeMichele SJ, et al. **Am J Clin Nutr** 1989 Dec;50(6):1295–302

Social and public health issues in adaptation to low energy intakes. Ferro-Luzzi A. **Am J Clin Nutr** 1990 Feb; 51(2):309–15 (44 ref.)

Do obese individuals gain weight more easily than nonobese individuals? Forbes GB. **Am J Clin Nutr** 1990 Aug; 52(2):224–7

Controlled trial of the metabolic effects of a very-low-calorie diet: short- and long-term effects. Foster GD, et al. **Am J Clin Nutr** 1990 Feb;51(2):167–72

Metabolism and nutritional adaptation to altered intakes of energy substrates. James WP, et al. **Am J Clin Nutr** 1990 Feb;51(2):264–9

Comparison of substrate utilization by indirect calorimetry during cyclic and continuous total parenteral nutrition. Just B, et al. **Am J Clin Nutr** 1990 Jan;51(1):107–11

Decreased thermic effect of a mixed meal during overnutrition in human obesity. Katzeff HL, et al. **Am J Clin Nutr** 1989 Nov;50(5):915–21

Preservation of short-term energy balance in clinically stable patients with AIDS. Kotler DP, et al. **Am J Clin Nutr** 1990 Jan;51(1):7–13

Energy values of unavailable carbohydrate and diets: an inquiry and analysis. Livesey G. **Am J Clin Nutr** 1990 Apr; 51(4):617–37 (14 ref.)

A new predictive equation for resting energy expenditure in healthy individuals. Mifflin MD, et al. **Am J Clin Nutr** 1990 Feb;51(2):241–7

Twenty-four-hour energy expenditure and basal metabolic rate measured in a whole-body indirect calorimeter in Gambian men. Minghelli G, et al. **Am J Clin Nutr** 1990 Apr;51(4):563–70

Total-body protein turnover in parenterally fed neonates: effects of energy source studied by using [15N]glycine and [1-13C]leucine. Pencharz P, et al. **Am J Clin Nutr** 1989 Dec;50(6):1395–400

Repeatability of 24-h energy expenditure measurements in humans by indirect calorimetry. Rumpler WV, et al. **Am J Clin Nutr** 1990 Feb;51(2):147–52

Energy metabolism in acute and chronic renal failure. Schneeweiss B, et al. **Am J Clin Nutr** 1990 Oct; 52(4):596–601

Comparison of thermic effects of constant and relative caloric loads in lean and obese men. Segal KR, et al. **Am J Clin Nutr** 1990 Jan;51(1):14–21

Assessment of physical activity and energy needs. Shephard RJ. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1195–200; discussion 1231–5 (38 ref.)

Energy cost of physical activity throughout pregnancy and the first year postpartum in Dutch women with sedentary lifestyles. van Raaij JM, et al. **Am J Clin Nutr** 1990 Aug; 52(2):234–9

Energy cost of walking at a fixed pace and self-paced before, during, and after pregnancy. van Raaij JM, et al. **Am J Clin Nutr** 1990 Feb;51(2):158–61

Metabolic response to glucose ingested with various amounts of protein. Westphal SA, et al. **Am J Clin Nutr** 1990 Aug; 52(2):267–72

The validity of self-reported exercise-induced sweating as a measure of physical activity. Washburn RA, et al. **Am J Epidemiol** 1990 Jul;132(1):107–13

Genetic and environmental influences on echocardiographically determined left ventricular mass in black twins. Harshfield GA, et al. **Am J Hypertens** 1990 Jul;3(7):538–43

Gestation length, metabolic rate, and body and brain weights in primates: epigenetic effects. Little BB. **Am J Phys Anthropol** 1989 Oct;80(2):213–8

Energy expenditure in humans: effects of dietary fat and carbohydrate. Abbott WG, et al. **Am J Physiol** 1990 Feb; 258(2 Pt 1):E347–51

Cerebral blood flow and energy metabolism during stress. Bryan RM Jr. **Am J Physiol** 1990 Aug;259(2 Pt 2):H269–80 (97 ref.)

Energy metabolism, ion homeostasis, and evoked potentials in anoxic turtle brain. Chih CP, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R854–60

Ambient temperature and food costs: effects on behavior patterns in rats. Collier GH, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 2):R1328–34

Avian basal metabolic rates: their association with body composition and energy expenditure in nature. Daan S, et al. **Am J Physiol** 1990 Aug;259(2 Pt 2):R333–40

Relationship between energy expenditure and ion channel density in the turtle and rat brain. Edwards RA, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1354–8

Energy expenditure during normo- and overfeeding in peripubertal children of lean and obese Pima Indians. Freymond D, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):E647–53

A simple model of aerobic metabolism: applications to work transitions in muscle. Funk CI, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):C995–1005

Mechanical, energetic, and biochemical changes in long-term pressure overload of rabbit heart. Gibbs CL, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):H849–59

Adenosine formation and energy metabolism: a 31P-NMR study in isolated rat heart. Headrick JP, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H617–24

Level of satiety: in vitro energy metabolism in brain during hypophagic and hyperphagic body weight recovery. Kasser TR, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1322–7

Failure of glutamate dehydrogenase system to predict oxygenation state of human skeletal muscle. Katz A, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):C26–8

Adrenalectomy increases brown adipose tissue metabolism in ob/ob mice housed at 35 degrees C. Kim HK, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E362–9

Energy-dependent cell volume maintenance in UC-11MG human astrocytomas. Lomneth R, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):C817–24

Energy substrate utilization by isolated working hearts from newborn rabbits. Lopaschuk GD, et al. **Am J Physiol** 1990 May;258(5 Pt 2):H1274–80

Reappraisal of the Weir equation for calculation of metabolic rate. Mansell PI, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1347–54

Energetic response of coronary endothelial cells to hypoxia. Mertens S, et al. **Am J Physiol** 1990 Mar;258(3 Pt 2):H689–94

Smooth muscle energetics and theories of cross-bridge regulation. Paul RJ. **Am J Physiol** 1990 Feb;258(2 Pt 1):C369–75

Influence of age and endurance training on metabolic rate and hormones in healthy men. Poehlman ET, et al. **Am J Physiol** 1990 Jul;259(1 Pt 1):E66–72

Influence of temperature on mechanics and energetics of muscle contraction. Rall JA, et al. **Am J Physiol** 1990 Aug; 259(2 Pt 2):R197–203 (59 ref.)

Hypothalamic paraventricular nucleus lesions do not prevent anorectic effect of exercise in male rats. Rivest S, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R579–84

Energy expenditure and subsequent nutrient intakes in overfed young men. Roberts SB, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R461–9

Paraventricular hypothalamic adrenoceptors and energy metabolism in exercising rats. Scheurink AJ, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):R478–84

Indirect calorimetry: methodological and interpretative problems. Simonson DC, et al. **Am J Physiol** 1990 Mar; 258(3 Pt 1):E399–412 (97 ref.)

Energy dependence of sodium-calcium exchange in vascular smooth muscle cells. Smith JB, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):C302–9

Variable series elasticity accounts for Fenn effects of skeletal and cardiac muscles. Suga H. **Am J Physiol** 1990 Feb;258(2 Pt 2):R457–61

Ventromedial hypothalamic lesions abolish compensatory

reduction in energy expenditure to weight loss. Vilberg TR, et al. **Am J Physiol** 1990 Feb;258(2 Pt 2):R476–80

Relationship of resting metabolic rate to body composition and protein turnover. Welle S, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):E990–8

Role of triglyceride–fatty acid cycle in controlling fat metabolism in humans during and after exercise. Wolfe RR, et al. **Am J Physiol** 1990 Feb;258(2 Pt 1):E382–9

Oxidant–induced endothelial leak correlates with decreased cellular energy levels. Holman RG, et al. **Am Rev Respir Dis** 1990 Jan;141(1):134–40

Neurotoxicity at the N–methyl–D–aspartate receptor in energy–compromised neurons. An hypothesis for cell death in aging and disease. Henneberry RC, et al. **Ann N Y Acad Sci** 1989;568:225–33

Non–linear relationship between reduced energy intake and rate of weight loss in rats. Macdonald I. **Ann Nutr Metab** 1990;34(4):213–5

Myocardial energetics and the postischemic heart [editorial; comment] Burkhoff D. **Ann Thorac Surg** 1990 Apr; 49(4):525–7 Comment on: Ann Thorac Surg 1990 Apr;49(4):543–8; discussion 548–9.

Biochemical changes of ischemia. Levitsky S, et al. **Ann Thorac Surg** 1975 Jul;20(1):21–9 (10 ref.)

Load and length regulation of cardiac energetics. Cooper G 4th. **Annu Rev Physiol** 1990;52:505–22 (124 ref.)

Force–flow and back–pressure relationships in mitochondrial energy transduction: an examination of extended state 3–state 4 transitions. Davis EJ, et al. **Arch Biochem Biophys** 1989 Dec;275(2):449–58

Energy consumption in paraplegic ambulation using the reciprocating gait orthosis and electric stimulation of the thigh muscles. Hirokawa S, et al. **Arch Phys Med Rehabil** 1990 Aug;71(9):687–94

Energy cost of paraplegic locomotion using the ParaWalker—electrical stimulation "hybrid" orthosis. Nene AV, et al. **Arch Phys Med Rehabil** 1990 Feb;71(2):116–20

Circulatory and metabolic responses of women to arm crank and wheelchair ergometry. Sedlock DA, et al. **Arch Phys Med Rehabil** 1990 Feb;71(2):97–100

Ankle weighting effect on gait in able–bodied adults. Skinner HB, et al. **Arch Phys Med Rehabil** 1990 Feb;71(2):112–5

Determinants of gait performance following spinal cord injury. Waters RL, et al. **Arch Phys Med Rehabil** 1989 Nov; 70(12):811–8

Are estimating energy expenditures in hospitalized patients appropriate? [letter; comment] Long CL. **Arch Surg** 1989 Dec;124(12):1464–5 Comment on: Arch Surg 1989 Mar;124(3):287–90.

Protein and energy relationships in dairy cattle. 2. Lactating cows. Teller E, et al. **Arch Tierernahr** 1989 Jun;39(6):543–51

Protein and energy relationships in dairy cattle. 1. Dry cows. Teller E, et al. **Arch Tierernahr** 1989 Jun;39(6):535–42

Depletion of high–energy phosphates in the central nervous system of patients with systemic lupus erythematosus, as determined by phosphorus–31 nuclear magnetic resonance spectroscopy. Griffey RH, et al. **Arthritis Rheum** 1990 Jun; 33(6):827–33

Energy absorption, lean body mass, and total body fat changes during 5 weeks of continuous bed rest. Krebs JM, et al. **Aviat Space Environ Med** 1990 Apr;61(4):314–8

Atrial bioenergetic variations in moderate hypoxia: danger or protective defense? Caparrotta L, et al. **Basic Res Cardiol** 1989 Sep–Oct;84(5):449–60

Energy requirements of contraction and relaxation: implications for inotropic stimulation of the failing heart. Katz AM. **Basic Res Cardiol** 1989;84 Suppl 1:47–53 (40 ref.)

Information from combined 1H and 31P NMR studies of cell extracts: differences in metabolism between drug–sensitive and drug–resistant MCF–7 human breast cancer cells. Kaplan O, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):383–90

Change in glucose metabolism with time in hydrocephalic rats. Sogabe T, et al. **Biochem Int** 1989 Sep;19(3):513–8

Sixth European BioEnergetics Conference (EBEC). Noordwijkerhout, The Netherlands, 27–31 August, 1990. Proceedings. **Biochim Biophys Acta** 1990 Jul 25; 1018(2–3):115–291

Study by NMR of the mode of action of monensin on Streptococcus faecalis de–energized and energized cells. Delort AM, et al. **Biochim Biophys Acta** 1989 Sep 4; 1013(1):11–20

The energy requirements of pH homoeostasis define the limits of pH regulation—a model. Kugel H, et al. **Biochim Biophys Acta** 1990 Aug 13;1054(1):33–40

Maintenance of energy–linked functions in rat liver mitochondria. Lund P, et al. **Biochim Biophys Acta** 1990 Jul 17;1018(1):98–102

Potential–sensitive molecular probes in membranes of bioenergetic relevance. Smith JC. **Biochim Biophys Acta** 1990 Mar 15;1016(1):1–28 (148 ref.)

Low energy charge in human uterine muscle. Wedenberg K, et al. **Biochim Biophys Acta** 1990 Jan 29;1033(1):31–4

Bioenergetic systems, structure control and evolution. Autumn congress. (Sept. 28–30, 1988, Bombannes, France). Proceedings. **Biochimie** 1989 Aug;71(8):877–979

Control, regulation and thermodynamics of free–energy transduction. Westerhoff HV. **Biochimie** 1989 Aug; 71(8):877–86 (51 ref.)

Mind over metabolism: the cephalic phase in relation to non–insulin–dependent diabetes and obesity. Storlien LH, et al. **Biol Psychol** 1989 Feb;28(1):3–23 (130 ref.)

The effect of zinc deficiency on the body composition of rats. White CL. **Biol Trace Elem Res** 1988 Sep–Dec; 17:175–87

Maturation–dependent changes of the rat reticulocyte energy metabolism and hormonal responsiveness. Kostić MM, et al. **Biomed Biochim Acta** 1990;49(2–3):S178–82

Mathematical modelling of energy and redox metabolism of G6PD–deficient erythrocytes. Schuster R, et al. **Biomed Biochim Acta** 1990;49(2–3):S160–5

A kind of fluorosensor used to bio–reactor. Yang YX, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:229–30

Accuracy of weighed dietary records [letter] Day NE, et al. **BMJ** 1990 May 26;300(6736):1398

Energy expenditure in children with type I diabetes: evidence for increased thermogenesis [see comments] Müller MJ, et al. **BMJ** 1989 Aug 19;299(6697):487–91 Comment in: BMJ 1989 Oct 7;299(6704):919.

Comparative metabolic enzymatic activity in trabecular as against cortical osteoblasts. Dodds RA, et al. **Bone** 1989; 10(4):251–4

Protein and energy metabolism of lactating Granadina goats. Aguilera JF, et al. **Br J Nutr** 1990 Mar;63(2):165–75

Basal metabolic rate and energy expenditure of pregnant Nigerian women. Cole AH, et al. **Br J Nutr** 1989 Nov; 62(3):631–7

Energy expenditure in early infancy. Davies PS, et al. **Br J Nutr** 1989 Nov;62(3):621–9

Individuals can or do adapt their metabolism to changes in diet. Gurr MI. **Br J Nutr** 1989 Jul;62(1):1–3 (6 ref.)

Adaptation to a marginal intake of energy in young children. Kennedy N, et al. **Br J Nutr** 1990 Mar;63(2):145–54

Energy–sparing adaptations in human pregnancy assessed by whole–body calorimetry. Prentice AM, et al. **Br J Nutr** 1989 Jul;62(1):5–22

Protein and energy requirements for maintenance of indigenous Granadina goats. Prieto C, et al. **Br J Nutr** 1990 Mar;63(2):155–63

Energy expenditure of Gambian women during peak agricultural activity measured by the doubly–labelled water method. Singh J, et al. **Br J Nutr** 1989 Sep;62(2):315–29

Metabolic effects of cancer. Douglas RG, et al. **Br J Surg** 1990 Mar;77(3):246–54 (148 ref.)

Estimation of endogenous energy and nitrogen losses in the cockerel during fasting and postprandial. Askbrant S, et al. **Br Poult Sci** 1990 Mar;31(1):155–62

Influence of age, chemical composition and rate of inclusion on the apparent metabolisable energy of fats fed to broiler chicks. Wiseman J, et al. **Br Poult Sci** 1989 Sep;30(3):653–62

Anatomical mapping of glucose transporter protein and pyruvate dehydrogenase in rat brain: an immunogold study. Bagley PR, et al. **Brain Res** 1989 Oct 16;499(2):214–24

Metabolic alterations in discrete regions of the rat brain during development of spontaneous hypertension. Krukoff TL, et al. **Brain Res** 1989 Oct 9;499(1):1–6

The effect of the excitatory amino acid receptor antagonist dizocilipine maleate (MK–801) on hemispheric cerebral blood flow and metabolism in dogs: modification by prior complete cerebral ischemia. Perkins WJ, et al. **Brain Res** 1989 Sep 25;498(1):34–44

Consequences of chronic phenobarbital treatment on local cerebral glucose utilization in the developing rat. Pereira de Vasconcelos A, et al. **Brain Res Dev Brain Res** 1990 May 1;53(2):168–78

Activity and energy expenditure. Dauncey MJ. **Can J Physiol Pharmacol** 1990 Jan;68(1):17–27 (82 ref.)

The role of ATP in energy–deprivation contractures in unloaded rat ventricular myocytes. Nichols CG, et al. **Can J Physiol Pharmacol** 1990 Feb;68(2):183–94

Use of the doubly labeled water method for measurement of energy expenditure, total body water, water intake, and metabolizable energy intake in humans and small animals. Roberts SB. **Can J Physiol Pharmacol** 1989 Oct; 67(10):1190–8 (53 ref.)

Increased protein turnover despite normal energy metabolism and responses to feeding in patients with lung cancer. Melville S, et al. **Cancer Res** 1990 Feb 15;50(4):1125–31

Assessment of tumor energy and oxygenation status by bioluminescence, nuclear magnetic resonance spectroscopy, and cryospectrophotometry. Mueller–Klieser W, et al. **Cancer Res** 1990 Mar 15; 50(6):1681–5

Cell–cycle independent increase in heat production in response to growth factors in cultured rat fibroblasts: interpretation by continuum model. Okuda A, et al. **Cell Biol Int Rep** 1990 Jan;14(1):15–24

Cellular energy metabolism. Recent advances in the study of the diaphragm with magnetic resonance spectroscopy. Gutierrez G, et al. **Chest** 1990 Apr;97(4):975–82 (45 ref.)

Energy expenditures of mechanically ventilated nonsurgical patients [see comments] Liggett SB, et al. **Chest** 1990 Sep; 98(3):682–6 Comment in: Chest 1990 Sep;98(3):524–6.

Cerebral energy metabolism in experimental canine hydrocephalus. Tamaki N, et al. **Childs Nerv Syst** 1990 May;6(3):172–8

Postischemic recovery of mechanical performance and energy metabolism in the presence of left ventricular hypertrophy. A 31P–MRS study. Buser PT, et al. **Circ Res** 1990 Mar;66(3):735–46

Decreased contractile efficiency and increased nonmechanical energy cost in hyperthyroid rabbit heart. Relation between O2 consumption and systolic pressure–volume area or force–time integral. Goto Y, et al. **Circ Res** 1990 Apr;66(4):999–1011

Ischemic preconditioning slows energy metabolism and delays ultrastructural damage during a sustained ischemic episode. Murry CE, et al. **Circ Res** 1990 Apr;66(4):913–31

The linear relation between oxygen consumption and pressure–volume area can be reconciled with the Fenn effect in dog left ventricle. Nozawa T, et al. **Circ Res** 1989 Nov;65(5):1380–9

Dynamic relation between myocardial contractility and energy metabolism during and following brief coronary occlusion in the pig. Schwartz GG, et al. **Circ Res** 1990 Aug;67(2):490–500

Adenosine. A homeostatic metabolite in cardiac energy metabolism. Schrader J. **Circulation** 1990 Jan;81(1):389–91

Metabolic equivalents (METS) in exercise testing, exercise prescription, and evaluation of functional capacity. Jetté M, et al. **Clin Cardiol** 1990 Aug;13(8):555–65 (10 ref.)

Energy dependence of cytosolic enzyme efflux from rat skeletal muscle. West–Jordan JA, et al. **Clin Chim Acta** 1990 Aug 15;189(2):163–72

Cardiovascular and metabolic response to adrenaline infusion in weight–losing patients with and without cancer. Drott C, et al. **Clin Physiol** 1989 Oct;9(5):427–39

Energetic cost of locomotion in animals. Tucker VA. **Comp Biochem Physiol** 1970 Jun 15;34(4):841–6

Energy value of glucose and lactate for the myocardium in patients with mitral stenosis. Kim NP, et al. **Cor Vasa** 1989; 31(4):306–11

Influence of parenteral nutrition on rates of net substrate oxidation in severe trauma patients. Jeevanandam M, et al. **Crit Care Med** 1990 May;18(5):467–73

Laboratory evaluation and use of the Engström metabolic computer in the clinical setting. Regan CJ, et al. **Crit Care Med** 1990 Aug;18(8):871–7

Predictive equation for assessing energy expenditure in mechanically ventilated critically ill patients. Swinamer DL, et al. **Crit Care Med** 1990 Jun;18(6):657–61

Energy expenditure index of walking for normal children and for children with cerebral palsy. Rose J, et al. **Dev Med Child Neurol** 1990 Apr;32(4):333–40

Energy balance and pulsatile LH secretion in early postpartum dairy cattle. Canfield RW, et al. **Domest Anim Endocrinol** 1990 Jul;7(3):323–30

Energy balance and body condition influence luteal function in Holstein heifers. Villa–Godoy A, et al. **Domest Anim Endocrinol** 1990 Apr;7(2):135–48

Importance of the cellular energy level for enzyme release induced by direct membrane damage. Kristensen SR. **Enzyme** 1990;43(1):33–46

Energy cost of running in similarly trained men and women. Bunc V, et al. **Eur J Appl Physiol** 1989;59(3):178–83

The energetics of middle–distance running. Lacour JR, et al. **Eur J Appl Physiol** 1990;60(1):38–43

Energetics of kayaking. Pendergast DR, et al. **Eur J Appl Physiol** 1989;59(5):342–50

A 'top–down' approach to the determination of control coefficients in metabolic control theory. Brown GC, et al. **Eur J Biochem** 1990 Mar 10;188(2):321–5

Subcellular distribution of energy metabolites in the pre–ischaemic and post–ischaemic perfused working rat heart. Humphrey SM, et al. **Eur J Biochem** 1990 Aug 17; 191(3):755–9

Covalent modification and metabolic control analysis. Modification to the theorems and their application to metabolic systems containing covalently modifiable enzymes. Small JR, et al. **Eur J Biochem** 1990 Jul 31; 191(2):405–11

Metabolic control analysis. Sensitivity of control coefficients to elasticities. Small JR, et al. **Eur J Biochem** 1990 Jul 31; 191(2):413–20

Energy state of the myocardium during long–term cold storage and subsequent reperfusion. Flameng W, et al. **Eur J Cardiothorac Surg** 1988;2(4):244–55

Perioperative assessment of cardiac energy metabolism by means of arterio–coronary venous difference in lactate concentration (acDL). A parameter for optimizing ventricular function of the postcardioplegic myocardium. Wollert HG, et al. **Eur J Cardiothorac Surg** 1990; 4(5):278–83

Postischaemic interrelations between energy metabolism and functional recovery of protected canine kidneys. Kehrer G, et al. **Eur J Clin Invest** 1989 Jun;19(3):328–36

Biology of adaptation to seasonal cycling of energy intake. **Eur J Clin Nutr** 1990;44 Suppl 1:1–121

Adjusting energy expenditure for body weight in early infancy. Davies PS, et al. **Eur J Clin Nutr** 1989 Sep; 43(9):641–5

Seasonality studies in three developing countries: introduction and background. Ferro–Luzzi A. **Eur J Clin Nutr** 1990;44 Suppl 1:3–6

An account of the experiments of Atwater, Benedict and Milner concerning the metabolism of matter and energy in the human body. Garby L, et al. **Eur J Clin Nutr** 1989 Aug;43(8):529–37

Enthalpy changes and heat production induced by a meal. Garby L. **Eur J Clin Nutr** 1989 Sep;43(9):637–9

The constancy of basal metabolic rate in free–living male subjects. Henry CJ, et al. **Eur J Clin Nutr** 1989 Oct; 43(10):727–31

Energy expenditure of young Swazi women as measured by the doubly–labelled water method. Huss–Ashmore R, et

al. Eur J Clin Nutr 1989 Nov;43(11):737–48
Energy expenditure/basal metabolic rate ratios in normal and marginally undernourished Colombian children 6–16 years of age. Spurr GB, et al. Eur J Clin Nutr 1989 Aug; 43(8):515–27
Effects of addition of exercise to energy restriction on 24–hour energy expenditure, sleeping metabolic rate and daily physical activity. van Dale D, et al. Eur J Clin Nutr 1989 Jul;43(7):441–51 (34 ref.)
Orthotopic partial liver transplantation in dogs can be performed without cold perfusion of the donor liver. Evaluation of its feasibility in terms of energy metabolism. Tokunaga Y, et al. Eur Surg Res 1989;21(3–4):137–44
Aerobic metabolism and swimming energetics of the painted turtle, Chrysemys picta. Lowell WR. Exp Biol 1990; 48(6):349–55
Changes in the energy metabolism of cultured lens epithelial cells in comparison with the fresh lens. Piper HM, et al. Exp Eye Res 1990 Aug;51(2):131–8
Effect of microgravity on metabolic enzymes of individual muscle fibers. Manchester JK, et al. FASEB J 1990 Jan; 4(1):55–63
Pi trapping in glycogenolytic pathway can explain transient Pi disappearance during recovery from muscular exercise. A 31P NMR study in the human. Bendahan D, et al. FEBS Lett 1990 Sep 3;269(2):402–5
Oxygen radical injury and loss of high–energy compounds in anoxic and reperfused rat heart: prevention by exogenous fructose–1,6–bisphosphate. Tavazzi B, et al. Free Radic Res Commun 1990;10(3):167–76
Red blood cells under mechanical stress. Kodiček M, et al. Gen Physiol Biophys 1990 Jun;9(3):291–9
Is CCAAT/enhancer–binding protein a central regulator of energy metabolism? McKnight SL, et al. Genes Dev 1989 Dec;3(12B):2021–4 (24 ref.)
Causes and consequences of variation in energy storage in Drosophila melanogaster. Clark AG. Genetics 1989 Sep; 123(1):131–44
Cerebral ischemia in spontaneously hypertensive rats with type 2 (noninsulin–dependent) diabetes mellitus, cerebral blood flow and tissue metabolism. Fujii K, et al. Gerontology 1989;35(2–3):78–87
Mechanisms of nutritional repletion during total parenteral nutrition. Pullicino E, et al. Gut 1989 Nov;30 Spec No:69–70
Basal energy production rate and substrate use in stable cirrhotic patients. Merli M, et al. Hepatology 1990 Jul; 12(1):106–12
Energy metabolism in patients with acute and chronic liver disease. Schneeweiss B, et al. Hepatology 1990 Mar; 11(3):387–93
In vivo hepatic energy metabolism during the progression of alcoholic liver disease: a noninvasive 31P nuclear magnetic resonance study in rats. Takahashi H, et al. Hepatology 1990 Jan;11(1):65–73
Changes in skeletal muscle 3,5,3'-triiodothyronine nuclear receptors with thyroid status are dependent on energy balance. Morovat A, et al. Horm Metab Res 1990 Feb; 22(2):128
Effect of endurance training on gross energy expenditure during exercise. Gardner AW, et al. Hum Biol 1989 Aug; 61(4):559–69
Fuel mobilization for energy metabolism in the silkmoth, Bombyx mori, during reproductive processes. Udapudi KT, et al. Indian J Exp Biol 1989 Aug;27(8):732–4
Human energy expenditure during level walking on a treadmill at speeds of 54–130 m min–1. Balogun JA, et al. Int Disabil Stud 1989 Apr–Jun;11(2):71–4
Sexual activity and coronary arterial disease [letter; comment] Cheng TO. Int J Cardiol 1990 Mar;26(3):387 Comment on: Int J Cardiol 1989 Sep;24(3):317–26.
Effect of hypoxaemia on enzymes supplying myocardial energy in children with congenital heart disease. Samánek M, et al. Int J Cardiol 1989 Dec;25(3):265–9
Effects of maternal obesity on fasting metabolism in newborn rats. Heng J, et al. Int J Obes 1990;14(6):505–13
Reversal of dietary obesity is influenced by its duration and severity. Hill JO, et al. Int J Obes 1989;13(5):711–22
The efficacy and metabolic effects of two different regimens of very low calorie diet. Ohno M, et al. Int J Obes 1989; 13 Suppl 2:79–85
Effects of exercise during VLCD diet on metabolic rate, body composition and aerobic power: pooled data of four studies. Saris WH, et al. Int J Obes 1989;13 Suppl 2:169–70
Effects of low (LCD) and very low (VLCD) energy diets on metabolic rate and body composition in obese (fa/fa) Zucker rats. Stock MJ. Int J Obes 1989;13 Suppl 2:61–5
Long–term exercise training with constant energy intake. 2: Effect on glucose metabolism and resting energy expenditure. Tremblay A, et al. Int J Obes 1990 Jan; 14(1):75–84 (47 ref.)
Relationship of changes in pH and energy status to hypoxic cell fraction and hyperthermia sensitivity. Koutcher JA, et al. Int J Radiat Oncol Biol Phys 1990 Jun;18(6):1429–35
Development of a realistic method to assess wheelchair propulsion by disabled people. Mattison PG, et al. Int J Rehabil Res 1989;12(2):137–45
Protein and energy metabolism during prolonged exercise in trained athletes. Stein TP, et al. Int J Sports Med 1989 Oct;10(5):311–6
Total daily energy expenditure and heart rate during pregnancy in free living Gambian women. Heini A, et al. Int J Vitam Nutr Res 1989;59(4):428
Free living energy expenditure and physical activity in obese and lean men. Jaccard C, et al. Int J Vitam Nutr Res 1989; 59(4):429
Energy expenditure in normal labor. Katz M, et al. Isr J Med Sci 1990 May;26(5):254–7
Increased contribution of protein oxidation to energy expenditure in head–injured patients. Dickerson RN, et al. J Am Coll Nutr 1990 Feb;9(1):86–8
Functional and metabolic changes during feeding in gastrointestinal cancer. Goldstein SA, et al. J Am Coll Nutr 1989 Dec;8(6):530–6
Decreased diet–induced thermogenesis in gluteal–femoral obesity. Vansant GA, et al. J Am Coll Nutr 1989 Dec; 8(6):597–601
Utilization of medium–chain triglycerides by neonatal piglets: I. Effects on milk consumption and body fuel utilization. Benevenga NJ, et al. J Anim Sci 1989 Dec;67(12):3331–9
Within–herd variation in energy utilization for maintenance and gain in beef cows. DiCostanzo A, et al. J Anim Sci 1990 Jul;68(7):2156–65
Effects of body composition, pre– and postpartum energy intake and stage of production of energy utilization by beef cows. Houghton PL, et al. J Anim Sci 1990 May; 68(5):1447–56
Energy requirements for maintenance of crossbred beef cattle with different genetic potential for milk. Montaño–Bermudez M, et al. J Anim Sci 1990 Aug; 68(8):2279–88
Biological efficiency to weaning and to slaughter of crossbred beef cattle with different genetic potential for milk. Montaño–Bermudez M, et al. J Anim Sci 1990 Aug; 68(8):2297–309
Energy utilization in pregnant and lactating sows: modeling of energy requirements. Noblet J, et al. J Anim Sci 1990 Feb;68(2):562–72 (49 ref.)
Energy utilization in mature ewes from seven breeds with diverse production potentials. Olthoff JC, et al. J Anim Sci 1989 Oct;67(10):2550–64
Anabolic implant and frame size effects on growth regulation, nutrient repartitioning and energetic efficiency of feedlot steers. Solis JC, et al. J Anim Sci 1989 Oct;67(10):2792–801
Field use of D2 18O to measure energy expenditure of soldiers at different energy intakes. DeLany JP, et al. J Appl Physiol 1989 Nov;67(5):1922–9
Energy and thermal regulation during bed rest and spaceflight. Greenleaf JE. J Appl Physiol 1989 Aug; 67(2):507–16 (71 ref.)
Energy coupling in bacterial periplasmic permeases. Ames GF, et al. J Bacteriol 1990 Aug;172(8):4133–7 (38 ref.)
Chloride transport pathways and their bioenergetic implications in the obligate acidophile Bacillus coagulans. McLaggan D, et al. J Bacteriol 1990 Mar;172(3):1485–90
Energy and calcium ion dependence of proteolysis during sporulation of Bacillus subtilis cells. O'Hara MB, et al. J Bacteriol 1990 Aug;172(8):4161–70
Conditioning by mitochondria and energy source of thermal death parameters in yeast. Madeira–Lopes A, et al. J Basic Microbiol 1990;30(4):267–71
Sodium–translocating adenosine triphosphatase in Streptococcus faecalis. Kakinuma Y, et al. J Bioenerg Biomembr 1989 Dec;21(6):679–92 (35 ref.)
The Na+ cycle of extreme alkalophiles: a secondary Na+/H+ antiporter and Na+/solute symporters. Krulwich TA, et al. J Bioenerg Biomembr 1989 Dec; 21(6):663–77 (53 ref.)
Sodium, protons, and energy coupling in the methanogenic bacteria. Lancaster JR Jr. J Bioenerg Biomembr 1989 Dec; 21(6):717–40 (127 ref.)
In vitro translocation of bacterial secretory proteins and energy requirements. Mizushima S, et al. J Bioenerg Biomembr 1990 Jun;22(3):389–99 (43 ref.)
The sodium cycle: a novel type of bacterial energetics. Skulachev VP. J Bioenerg Biomembr 1989 Dec; 21(6):635–47 (82 ref.)
Respiratory Na+ pump and Na+–dependent energetics in Vibrio alginolyticus. Tokuda H. J Bioenerg Biomembr 1989 Dec;21(6):693–704 (37 ref.)
Sodium–transport NADH–quinone reductase of a marine Vibrio alginolyticus. Unemoto T, et al. J Bioenerg Biomembr 1989 Dec;21(6):649–62 (54 ref.)
Specificity and efficiency of rho–factor helicase activity depends on magnesium concentration and energy coupling to NTP hydrolysis. Brennan CA, et al. J Biol Chem 1990 Apr 5;265(10):5440–7
Oxygen transport to respiring myocytes. Dionne KE. J Biol Chem 1990 Sep 15;265(26):15400–2
Energy requirements for unfolding and membrane translocation of precursor proteins during import into mitochondria. Pfanner N, et al. J Biol Chem 1990 Sep 25; 265(27):16324–9
Cellular energetics and the oxygen dependence of respiration in cardiac myocytes isolated from adult rat. Rumsey WL, et al. J Biol Chem 1990 Sep 15;265(26):15392–402
Evidence for compartmentalized adenylate kinase catalysis serving a high energy phosphoryl transfer function in rat skeletal muscle. Zeleznikar RJ, et al. J Biol Chem 1990 Jan 5;265(1):300–11
Processing of asparagine–linked oligosaccharides is an early biochemical marker of the enterocytic differentiation of HT–29 cells. Ogier–Denis E, et al. J Cell Biochem 1989 Sep;41(1):13–23
Use of PET methods for measurement of cerebral energy metabolism and hemodynamics in cerebrovascular disease. Baron JC, et al. J Cereb Blood Flow Metab 1989 Dec; 9(6):723–42 (134 ref.)
Cortical spreading depression is associated with arachidonic acid accumulation and preservation of energy charge. Lauritzen M, et al. J Cereb Blood Flow Metab 1990 Jan; 10(1):115–22
Changes in cortical extracellular levels of energy–related metabolites and amino acids following concussive brain injury in rats. Nilsson P, et al. J Cereb Blood Flow Metab 1990 Sep;10(5):631–7
Short–term effects of growth hormone on fuel oxidation and regional substrate metabolism in normal man. Møller N, et al. J Clin Endocrinol Metab 1990 Apr;70(4):1179–86
Relationship between myocardial metabolites and contractile abnormalities during graded regional ischemia. Phosphorus–31 nuclear magnetic resonance studies of porcine myocardium in vivo. Schaefer S, et al. J Clin Invest 1990 Mar;85(3):706–13
Energy requirements of Adélie penguin (Pygoscelis adeliae) chicks. Culik B, et al. J Comp Physiol [B] 1990;160(1):61–70
Metabolism of propionate, glucose, and carbon dioxide as affected by exogenous glucose in dairy cows at energy equilibrium. Amaral DM, et al. J Dairy Sci 1990 May; 73(5):1244–54
Energy and nitrogen utilization of high versus low producing dairy cows. Belyea RL, et al. J Dairy Sci 1990 Apr; 73(4):1023–30
Improved energy prediction equations for dairy cattle rations. Donker JD. J Dairy Sci 1989 Nov;72(11):2942–8
Efficiency of feed utilization in Holsteins selected for yield. Legates JE. J Dairy Sci 1990 Jun;73(6):1533–6
Insulin–like growth factor–I in dairy cows: relationships among energy balance, body condition, ovarian activity, and estrous behavior. Spicer LJ, et al. J Dairy Sci 1990 Apr;73(4):929–37
Relationship between ovarian activity and energy status during the early postpartum period of high producing dairy cows. Staples CR, et al. J Dairy Sci 1990 Apr;73(4):938–47
Modeling net energy efficiencies as quantitative characteristics in lactating cows. Walter JP, et al. J Dairy Sci 1989 Sep;72(9):2362–74
Rates of energy processing by blowflies: the uses for a joule vary with food quality and quantity. Hainsworth FR, et al. J Exp Biol 1990 May;150:257–68
Uncoupler resistance in Escherichia coli: the role of cellular respiration. Quirk PG, et al. J Gen Microbiol 1989 Oct;135 (Pt 10):2577–87
Energetics of Saccharomyces cerevisiae in anaerobic glucose–limited chemostat cultures. Verduyn C, et al. J Gen Microbiol 1990 Mar;136 (Pt 3):405–12
Observation methods of human behavior—from research experiences in Papua New Guinea. Inaoka T. J Hum Ergol (Tokyo) 1989 Dec;18(2):225–9
Modelling human power and endurance. Morton RH. J Math Biol 1990;28(1):49–64
Bioenergetic consequences of alopecia induced by Dermacentor albipictus (Acari: Ixodidae) on moose. Welch DA, et al. J Med Entomol 1990 Jul;27(4):656–60
Adenosine production and energy metabolism in ischaemic and metabolically stimulated rat heart. Headrick J, et al. J Mol Cell Cardiol 1989 Nov;21(11):1089–100
Transmural differences in energy metabolism of the left ventricular myocardium: fact or fiction. van der Vusse GJ, et al. J Mol Cell Cardiol 1990 Jan;22(1):23–37 (114 ref.)
Prolonged aerobic exercise: physiological studies in rat gastrocnemius with additional observations on the effects of acute mitochondrial blockade. Byrne E, et al. J Neurol Sci 1989 Sep;92(2–3):215–27
Effects of tenotomy on muscle histology and energy metabolism in normal and dystrophic mice. Lane RJ, et al. J Neurol Sci 1989 Sep;92(2–3):307–16
Changes in brain energy and phospholipid metabolism during development and aging in the Fischer 344 rat. Pettegrew JW, et al. J Neuropathol Exp Neurol 1990 May;49(3):237–49
Cerebral energy metabolism and intracellular pH during severe hypoxia and recovery: a study using 1H, 31P, and 1H [13C] nuclear magnetic resonance spectroscopy in the guinea pig cerebral cortex in vitro. Kauppinen RA, et al. J Neurosci Res 1990 Jul;26(3):356–69
Heat generation associated with synaptic transmission in the mammalian superior cervical ganglion. Kusano K, et al. J Neurosci Res 1990 Feb;25(2):249–55
Hypermetabolism in the acute stage of hemorrhagic cerebrovascular disease. Touho H, et al. J Neurosurg 1990 May;72(5):710–4
Mitochondrial metabolism following traumatic brain injury in rats. Vink R, et al. J Neurotrauma 1990 Spring;7(1):21–7
Dietary energy restriction decreases ex vivo spleen prostaglandin E2 synthesis in Emory mice. Meydani SN, et al. J Nutr 1990 Jan;120(1):112–5
Regulation of bone cell metabolism. Hagel–Bradway S, et al. J Oral Pathol Med 1989 Jul;18(6):344–51 (104 ref.)
Energy consumption in infants with bronchopulmonary dysplasia. Kalhan SC, et al. J Pediatr 1990 Apr; 116(4):662–4 (18 ref.)
Intestinal mucosal energy metabolism—a new approach to therapy of gastrointestinal disease. Penn D, et al. J Pediatr Gastroenterol Nutr 1990 Jan;10(1):1–4 (37 ref.)
Growth–plate cartilage metabolic response to mechanical stress. Greco F, et al. J Pediatr Orthop 1989 Sep–Oct;

9(5):520–4
Muscle energy metabolism, nuclear magnetic resonance spectroscopy and their potential in the study of fibromyalgia. Kushmerick MJ. **J Rheumatol Suppl** 1989 Nov;19:40–6
Energy consumption during passive isokinetic exercises. Dal Monte A, et al. **J Sports Med Phys Fitness** 1989 Jun; 29(2):123–8
The validity of a portable accelerometer for estimating energy expenditure in bicycle riding. Hunter GR, et al. **J Sports Med Phys Fitness** 1989 Sep;29(3):218–22
Components of energy expenditure in tumor-bearing animals. Luketich JD, et al. **J Surg Res** 1990 Jun;48(6):573–8
Influence of colloidal carbon phagocytosis as a metabolic load on the hepatic energy metabolism in rats. Shimahara Y, et al. **J Surg Res** 1990 Aug;49(2):146–52
Energetic recovery from hypothermic preservation in the rat liver. Tsukamoto K, et al. **J Surg Res** 1990 Jan; 48(1):46–50
Entropy flow and entropy production in the human body in basal conditions. Aoki I. **J Theor Biol** 1989 Nov 8; 141(1):11–21
Energetics and geometry of huddling in small mammals. Canals M, et al. **J Theor Biol** 1989 Nov 21;141(2):181–9
A comparative clinical study on the effects of cardiopulmonary bypass with different flows and pressures on skeletal muscle cell metabolism in patients undergoing coronary bypass grafting. Del Canale S, et al. **J Thorac Cardiovasc Surg** 1990 Feb;99(2):327–34
Invited letter concerning: myocardial energy metabolism early after cardiac operations [letter] McMillin JB. **J Thorac Cardiovasc Surg** 1990 Jun;99(6):1110–2
Nutritional impact on the energy cost of fat fuel mobilization in polytrauma victims. Jeevanandam M, et al. **J Trauma** 1990 Feb;30(2):147–54
Measured energy expenditure in severe head trauma. Moore R, et al. **J Trauma** 1989 Dec;29(12):1633–6
Validation of a new formula for calculating the energy requirements of burn patients. Allard JP, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):115–8
Resting metabolic rate of esophageal carcinoma patients: a model for energy expenditure measurement in a homogenous cancer population. Thomson SR, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):119–21
Right ventricular mechanical and energetic properties. Yamada O, et al. **Jpn Circ J** 1989 Oct;53(10):1260–8
Seasonal changes in energy reserves in the common frog, Rana tigrina. Singh RP, et al. **Jpn J Physiol** 1989; 39(6):969–73
Endocrine and metabolic abnormalities following kidney transplantation. Hörl WH, et al. **Klin Wochenschr** 1989 Sep 1;67(17):907–18 (148 ref.)
Fasting energy metabolism of the Yucatan miniature pig. Parsons AH, et al. **Lab Anim Sci** 1990 Mar;40(2):162–4
Effects of calcium loading and impaired energy production on metabolic and ultrastructural features of cell injury in cultured neonatal rat cardiac myocytes. Buja LM, et al. **Lab Invest** 1990 Sep;63(3):320–31
Metabolic rate and physical development in children at risk of obesity. Griffiths M, et al. **Lancet** 1990 Jul 14; 336(8707):76–8
Gene/energy interaction in cystic fibrosis [letter] O'Rawe A, et al. **Lancet** 1990 Mar 3;335(8688):552–3
Role of the calcaneal inclination in the energy storage capacity of the human foot—a biomechanical model. Simkin A, et al. **Med Biol Eng Comput** 1990 Mar; 28(2):149–52
Major error in national nutrient database for dietary analysis [letter] Roberts DC, et al. **Med J Aust** 1990 Jun 18; 152(12):675
A review: exercise and its influence on resting energy metabolism in man. Poehlman ET. **Med Sci Sports Exerc** 1989 Oct;21(5):515–25 (61 ref.)
Effect of exercise intensity and duration on postexercise energy expenditure. Sedlock DA, et al. **Med Sci Sports Exerc** 1989 Dec;21(6):662–6
Evaluation of radiolabeled acetate and fluoroacetate as potential tracers of cerebral oxidative metabolism. Lear JL, et al. **Metab Brain Dis** 1990 Mar;5(1):45–56
Fasting prior to transient cerebral ischemia reduces delayed neuronal necrosis. Marie C, et al. **Metab Brain Dis** 1990 Jun;5(2):65–75
The evolution of focal ischemic damage: a metabolic analysis. Selman WR, et al. **Metab Brain Dis** 1990 Mar;5(1):33–44
Effect of momentary stress on brain energy metabolism in weanling mice: apparent use of lactate as cerebral metabolic fuel concomitant with a decrease in brain glucose utilization. Thurston JH, et al. **Metab Brain Dis** 1989 Sep; 4(3):177–86
Triglyceride/fatty acid cycling is increased after exercise. Bahr R, et al. **Metabolism** 1990 Sep;39(9):993–9
Effects of medium-chain triglyceride feeding on energy balance in adult humans. Dias VC, et al. **Metabolism** 1990 Sep;39(9):887–91
Energy expenditure and physical performance in overweight women: response to training with and without caloric restriction. Keim NL, et al. **Metabolism** 1990 Jun; 39(6):651–8
Protein and energy substrate metabolism in AIDS patients. Stein TP, et al. **Metabolism** 1990 Aug;39(8):876–81
Role of adenine nucleotides in the regulation of bacterial energy metabolism: theoretical problems and experimental pitfalls. Kahru A, et al. **Microbios** 1990;62(251):83–92
The role of amino acids in the energy generating pathways of Litomosoides carinii. Davies KP, et al. **Mol Biochem Parasitol** 1990 Jun;41(1):115–24
Differential energetic metabolism during Trypanosoma cruzi differentiation. II. Hexokinase, phosphofructokinase and pyruvate kinase. Adroher FJ, et al. **Mol Cell Biochem** 1990 Apr 18;94(1):71–82
Locomotion. Running is priced by the step [news; comment] Alexander RM, et al. **Nature** 1990 Jul 19;346(6281):220–1 Comment on: Nature 1990 Jul 19;346(6281):265–7.
Energetics of running: a new perspective [see comments] Kram R, et al. **Nature** 1990 Jul 19;346(6281):265–7 Comment in: Nature 1990 Jul 19;346(6281):220–1.
Spatial structures in microtubular solutions requiring a sustained energy source. Tabony J, et al. **Nature** 1990 Aug 2;346(6283):448–51
Extracellular sodium and chloride depletion enhances nonexocytotic noradrenaline release induced by energy deficiency in rat heart. Kurz T, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Sep; 340(3):265–9
Positron emission tomography (PET): a unique approach for the imaging of in vivo metabolism. Loken MK, et al. **Nebr Med J** 1989 Nov;74(11):333–9 (16 ref.)
The role of neuronal energy in the neurotoxicity of excitatory amino acids. Henneberry RC. **Neurobiol Aging** 1989 Sep–Oct;10(5):611–3; discussion 618–20
Spreading depression following experimental head injury in the rat. Sunami K, et al. **Neurol Med Chir (Tokyo)** 1989 Nov;29(11):975–80
Changes in Na+,K(+)-ATPase, Ca2(+)-ATPase and some soluble enzymes related to energy metabolism in brains of patients with Alzheimer's disease. Liguri G, et al. **Neurosci Lett** 1990 May 4;112(2–3):338–42
Metabolic activation of the fetal rat brain. Morimoto A, et al. **Neurosci Lett** 1990 Mar 26;111(1–2):34–8
Changes of local cerebral glucose utilization, DC potential and extracellular potassium concentration in experimental head injury of varying severity. Kubota M, et al. **Neurosurg Rev** 1989;12 Suppl 1:393–9
Hypermetabolic state following experimental head injury. Sunami K, et al. **Neurosurg Rev** 1989;12 Suppl 1:400–11
Study on digestibility and energy availability of daily food intake by the Japanese. Part 2. Horse mackerel and milk. Fujii M, et al. **Nippon Eiseigaku Zasshi** 1989 Oct; 44(4):905–10
Study on digestibility and energy availability of daily intake food in Japanese. Part 1. Kori-dofu and soybean. Imaki M, et al. **Nippon Eiseigaku Zasshi** 1989 Aug;44(3):714–8
Effects of repeated ischemia on cerebral blood flow and brain energy metabolism. Laptook AR, et al. **NMR Biomed** 1988 Apr;1(2):74–9
Dynamics of skeletal muscle energetics during ischemia and reperfusion assessed by in vivo 31P NMR. Soussi B, et al. **NMR Biomed** 1990 Apr;3(2):71–7
Re: 'Effects of waterbed flotation on indicators of energy expenditure in preterm infants' [letter] Schaefer KM, et al. **Nurs Res** 1990 Sep–Oct;39(5):293
Energy expenditure and the control of body weight. **Nutr Rev** 1989 Aug;47(8):249–52
Metabolic regulation of food intake. York DA. **Nutr Rev** 1990 Feb;48(2):64–70; discussion 114–31 (50 ref.)
Metabolic response to enteral food in different phases of cancer cachexia in rats. Zylicz Z, et al. **Oncology** 1990; 47(1):87–91
Novel biochemical pathways in parasitic protozoa. Fairlamb AH. **Parasitology** 1989;99 Suppl:S93–112 (160 ref.)
Accurate, noninvasive quantitation of expiratory gas leak from uncuffed infant endotracheal tubes. Knauth A, et al. **Pediatr Pulmonol** 1990;9(1):55–60
Energy expenditure in obese and nonobese adolescents. Bandini LG, et al. **Pediatr Res** 1990 Feb;27(2):198–203
Whole body protein turnover measured with 13C-leucine and energy expenditure in preterm infants. Beaufrere B, et al. **Pediatr Res** 1990 Aug;28(2):147–52
Intrauterine growth retardation: altered hepatic energy and redox states in the fetal rat. Ogata ES, et al. **Pediatr Res** 1990 Jan;27(1):56–63
Influence of the age on energy metabolism and purines turnover in Watanabe hyperlipemic (WHHL) rabbit aorta. Pandolfo L, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:115–6
Perspectives on the improvement of quality of life with epoetin alfa therapy. Lundin AP, et al. **Pharmacotherapy** 1990 Mar–Apr;10(2 (Pt 2)):22S–26S
Energy expenditure of ambulation using the Sure-Gait crutch and the standard axillary crutch [see comments] Annesley AL, et al. **Phys Ther** 1990 Jan;70(1):18–23 Comment in: Phys Ther 1990 Jul;70(7):455–6.
Energy cost of walking with hip joint impairment. Gussoni M, et al. **Phys Ther** 1990 May;70(5):295–301
Energy contributions of volatile fatty acids from the gastrointestinal tract in various species. Bergman EN. **Physiol Rev** 1990 Apr;70(2):567–90 (332 ref.)
Ventricular energetics. Suga H. **Physiol Rev** 1990 Apr; 70(2):247–77 (295 ref.)
Lack of interactive effect of nicarbazin and dietary energy-to-protein ratio on performance and abdominal fat pad weight of broiler chicks. Bartov I. **Poult Sci** 1989 Nov; 68(11):1535–9
Effect of oligosaccharide-free soybean meal on true metabolizable energy and fiber digestion in adult roosters. Coon CN, et al. **Poult Sci** 1990 May;69(5):787–93
Effect of ratio of unsaturated to saturated fatty acids of the dietary lipid fraction on utilization and metabolizable energy of added fats in young chicks. Ketels E, et al. **Poult Sci** 1989 Nov;68(11):1506–12
Nutritional evaluation of blood meal and feather meal for turkeys. Liu JK, et al. **Poult Sci** 1989 Nov;68(11):1513–8
Energy exchange of two breeds of hens in respiration chambers. Pesti GM, et al. **Poult Sci** 1990 Jan;69(1):98–104
Standard errors of nitrogen-corrected true metabolizable energy estimates: effects of pooling excreta samples and ignoring among-control bird variation. Wolynetz MS, et al. **Poult Sci** 1989 Oct;68(10):1361–7
Occupational hot exposures: a review of heat and mass transfer theory. Galbraith GH, et al. **Proc Inst Mech Eng [H]** 1989;203(H3):123–31 (40 ref.)
Sustained metabolic scope. Peterson CC, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2324–8
Intracellular calcium ions and intramitochondrial Ca2+ in the regulation of energy metabolism in mammalian tissues. McCormack JG, et al. **Proc Nutr Soc** 1990 Feb;49(1):57–75 (127 ref.)
Brown adipose tissue and nutritional energetics—where are we now? Trayhurn P. **Proc Nutr Soc** 1989 Jul;48(2):165–75 (63 ref.)
Muscle energetics. Proceedings of the third international conference. Yufuin, Japan, July 31–August 5, 1988. **Prog Clin Biol Res** 1989;315:1–627
Sixty years of muscle energetics. Feng TP. **Prog Clin Biol Res** 1989;315:3–7
Smooth muscle energetics: testing theories of crossbridge regulation. Paul RJ, et al. **Prog Clin Biol Res** 1990; 327:29–38
Energetics as an approach to the study of smooth muscle: the Bozler legacy. Siegman MJ, et al. **Prog Clin Biol Res** 1990;327:17–27 (32 ref.)
31P-NMR study on intracellular energy transport in muscle. Yoshizaki K. **Prog Clin Biol Res** 1989;315:177–84
Nervous regulation of metabolism. Niijima A. **Prog Neurobiol** 1989;33(2):135–47 (91 ref.)
Correlations between 31P-NMR spectroscopy and tissue O2 tension measurements in a murine fibrosarcoma. Vaupel P, et al. **Radiat Res** 1989 Dec;120(3):477–93
Volume of fluid and concentration of cations and energy substrates in the uteri of mice during early pseudopregnancy. Wales RG, et al. **Reprod Fertil Dev** 1989; 1(2):171–8
Energy metabolism in the digestive tract and liver of cattle: influence of physiological state and nutrition. Huntington GB. **Reprod Nutr Dev** 1990;30(1):35–47 (70 ref.)
Energy metabolism reactions in ruminant muscle: responses to age, nutrition and hormonal status. Lobley GE. **Reprod Nutr Dev** 1990;30(1):13–34 (128 ref.)
Role of geometry and anisotropic diffusion for modelling PO2 profiles in working red muscle. Groebe K, et al. **Respir Physiol** 1990 Mar;79(3):255–78
Depression of energy metabolism in distant brain structures: studies with positron emission tomography in stroke patients. Baron JC. **Semin Neurol** 1989 Dec;9(4):281–5 (44 ref.)
Sleep deprivation in the rat: XI. The effect of guanethidine-induced sympathetic blockade on the sleep deprivation syndrome. Pilcher JJ, et al. **Sleep** 1990 Jun; 13(3):218–31
Effects of inspiratory loading on 31phosphorus magnetic resonance spectroscopy of the inspiratory intercostal muscles in normal humans. Lopata M, et al. **Trans Assoc Am Physicians** 1988;101:203–11
Nutrition and fuel utilization in the athletic horse. Lawrence LM. **Vet Clin North Am Equine Pract** 1990 Aug; 6(2):393–418 (143 ref.)
Aspects of food production, consumption and energy values. **World Rev Nutr Diet** 1990;61:1–208
Distribution of lipid in hepatic tissue of dairy goats in positive and negative energy balance. Skaar TC, et al. **Zentralbl Veterinarmed** [A] 1989 Aug;36(7):555–8
[Effects of F.D.P. and D.C.A. on myocardial energy metabolism and intracellular pH of hearts of severely burned rats] Xia ZF. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1988 Sep;4(3):208–11, 238 (Eng. Abstr.) (Chi)
[A study of intracellular pH and energy metabolism of myocardium of burned rats with the aid of 31p nuclear magnetic resonance] Xia ZF. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):145–7, 159 (Eng. Abstr.) (Chi)
[Differences in the activity of enzymes associated with energy metabolism in the heart atria and ventricles in children] Bass A, et al. **Cas Lek Cesk** 1989 Sep 1;128(36):1138–41 (Eng. Abstr.) (Cze)
[Energy requirements in women during running on a treadmill and running over terrain] Bunc V, et al. **Cas Lek Cesk** 1990 May 25;129(21):650–3 (Eng. Abstr.) (Cze)
[The effect of body constitution on work capacity evaluated by means of mechanical efficiency] Bunc V, et al. **Cas Lek Cesk** 1990 Jan 19;129(3):85–7 (Eng. Abstr.) (Cze)
[Evaluation of energy requirements in basic physical activity] Bunc V, et al. **Cas Lek Cesk** 1989 Dec 8;128(50):1580–3 (Eng. Abstr.) (Cze)

[Differences in the activity of energy metabolism enzymes in the heart atrium and ventricles in children (letter)] Frič P. **Cas Lek Cesk** 1990 Apr 20;129(16):508 (Cze)
[The effect of euphylline on energy expenditure in obese patients during treatment with a reducing diet] Hainer V, et al. **Cas Lek Cesk** 1990 Jul 20;129(29):907–10 (Eng. Abstr.) (Cze)
[A low-energy protein diet and complete fasting in obese patients. Effect on energy metabolism] Kábrt J, et al. **Cas Lek Cesk** 1990 May 4;129(18):558–61 (Eng. Abstr.) (Cze)
[Adaptation of cardiac energy metabolism in children with congenital heart defects] Samánek M, et al. **Cas Lek Cesk** 1989 Sep 1;128(36):1121–4 (Eng. Abstr.) (Cze)
[Energy reserves and the extent of heart injury in ischemia and reperfusion during single and repeated administration of cardioplegic solutions] Vavřínková H, et al. **Cesk Fysiol** 1989;38(6):565–8 (Cze)
[Principles of the use of indirect calorimetry in intensive care] Chiolero RL, et al. **Agressologie** 1990 Jan;31(1):68–9 (Eng. Abstr.) (Fre)
[Practical aspects of indirect calorimetry in post-anesthesia recovery] Lepape A, et al. **Agressologie** 1990 Jan;31(1):74–6 (Eng. Abstr.) (Fre)
[Principles of the measurement of energy expenditure] Thorin D, et al. **Agressologie** 1990 Jan;31(1):59–61 (Eng. Abstr.) (Fre)
[Are calorimetric changes in brain injury a prognostic factor?] Verdy S. **Agressologie** 1990 Jan;31(1):70–3 (Eng. Abstr.) (Fre)
[Energy metabolism and craniocerebral injury] Chiolero RL, et al. **Ann Fr Anesth Reanim** 1990;9(2):169–75 (43 ref.) (Eng. Abstr.) (Fre)
[Study of cerebral energy metabolism and development of postanoxia coma] Génestal M, et al. **Ann Fr Anesth Reanim** 1990;9(3):220–6 (Eng. Abstr.) (Fre)
[Changes in energy, carbohydrate, protein and lipid metabolism in acute stress] Delarue J, et al. **Gastroenterol Clin Biol** 1990;14(1):41–50 (103 ref.) (Fre)
[Metabolic problems and therapeutic approaches in multiple organ failure] Puchstein C, et al. **Anasth Intensivther Notfallmed** 1989 Aug;24(4):199–205 (71 ref.) (Eng. Abstr.) (Ger)
[Variability and circadian rhythms of maintenance energy expenditure in adult humans] Müller HL, et al. **Ann Nutr Metab** 1989;33(2):114–24 (Eng. Abstr.) (Ger)
[Relationship between metabolic status and results of embryo collection in high-producing cows] Schäfer M, et al. **Arch Exp Veterinarmed** 1990;44(1):157–62 (Eng. Abstr.) (Ger)
[Experimental studies of the evaluation of the energy balance of dairy cows. 1. Milk production and milk composition] Staufenbiel B, et al. **Arch Exp Veterinarmed** 1990; 44(1):143–55 (Eng. Abstr.) (Ger)
[Behavior of back fat thickness, the activity of NADP-dependent dehydrogenases from adipose tissue and adipose tissue constituents fat and protein and their evidence for energy metabolism in dairy cows] Staufenbiel R, et al. **Arch Exp Veterinarmed** 1989 Nov;43(6):885–95 (Eng. Abstr.) (Ger)
[Energy requirements of pregnant and lactating sows] Hoffmann L, et al. **Arch Tierernahr** 1990 Apr;40(4):279–96 (Eng. Abstr.) (Ger)
[Measuring energy turnover in the adult swine during feeding of rations with potato starch, potatoes, beets, pressed shreds and coarse fodder as supplements to a basic ration. 1. Energy turnover and energy utilization] Hoffmann L, et al. **Arch Tierernahr** 1990 Mar;40(3):191–207 (Eng. Abstr.) (Ger)
[Measuring of the energy turnover in adult swine during feeding of rations with potato starch, potatoes, beets, pressed shreds and coarse fodder as supplements to a basic ration. 2. Evaluation and discussion of the results for further development of energetic feed rating for swine] Hoffmann L, et al. **Arch Tierernahr** 1990 Mar;40(3):209–19 (Eng. Abstr.) (Ger)
[The energy utilization of root vegetables and their processed products by adult swine] Jentsch W, et al. **Arch Tierernahr** 1989 Dec;39(12):981–92 (Eng. Abstr.) (Ger)
[The energy utilization of coarse feed by adult swine] Jentsch W, et al. **Arch Tierernahr** 1989 Dec;39(12):993–1005 (Eng. Abstr.) (Ger)
[The energy requirements of Holstein–Friesian heifers during rearing and pregnancy under the tropical conditions of Cuba. 1. Determination of dry matter and energy assimilation and of the live weight development and energy expenditure] Zarragoitia L, et al. **Arch Tierernahr** 1990 Apr; 40(4):363–73 (Eng. Abstr.) (Ger)
[The energy requirements of Holstein–Friesian heifers during rearing and pregnancy under the tropical conditions of Cuba. 2. Generalization of the results and derivation of the energy requirements] Zarragoitia L, et al. **Arch Tierernahr** 1990 Apr;40(4):375–84 (Eng. Abstr.) (Ger)
[The adaptation of the morphometric parameters of fat cell size for the purposes of animal science research. 2. Cellularity of subcutaneous adipose tissue of different swine breeds influenced by graduated feed levels and in relation to metabolic data and parameters of body fat degeneration] Sturm G, et al. **Berl Munch Tierarztl Wochenschr** 1990 Apr 1;103(4):112–7 (Eng. Abstr.) (Ger)
[Localized MR spectroscopy in the human: status of the technic] Bunke J. **Biomed Tech (Berlin)** 1989;34 Suppl:163–4 (Ger)
[Equipment organization for in vivo study of 31-phosphor metabolism using magnetic resonance spectroscopy] Förger K, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:165–6 (Ger)
[The effect of parameter choice on results of localized in vivo MR spectroscopy] Melchert U, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:167–8 (Ger)
[1H and 31P MR spectroscopy of tumors of the head and neck] Reiman V, et al. **Biomed Tech (Berlin)** 1989;34 Suppl:161–2 (Ger)
[The effect of arteriovenous fistulas on the metabolism and morphology of striated muscles] Germann G, et al. **Chirurg** 1989 Oct;60(10):678–83 (Eng. Abstr.) (Ger)
[Possibilities of phosphorus 31 spectroscopy in assessing the therapeutic effects on cellular energy metabolism of the myocardium] Kiricuta IC, et al. **Herz** 1989 Aug;14(4):260–6 (19 ref.) (Eng. Abstr.) (Ger)
[Metabolic side effects of parenteral nutrition] Eckart J, et al. **Infusionstherapie** 1989 Aug;16 Suppl 1:55–64 (83 ref.) (Ger)
[Current calorie value of intravenous infusion of nutritional solutions] Halmágyi M, et al. **Infusionstherapie** 1989 Aug; 16 Suppl 1:44–8 (Ger)
[Limits and relations of amino acid and energy administration] Schmitz JE. **Infusionstherapie** 1989 Aug;16 Suppl 1:36–43 (31 ref.) (Ger)
[The significance of carbohydrates in reducing diets] Zwiauer K. **Infusionstherapie** 1989 Aug;16(4):176–81 (26 ref.) (Eng. Abstr.) (Ger)
[Metabolic studies of gliomas with positron emission tomography and phosphorus 31 MR spectroscopy in diagnosis and treatment planning] Jeske J, et al. **Onkologie** 1989 Aug;12 Suppl 1:42–5 (Eng. Abstr.) (Ger)
[Interval exercise in arterial occlusive disease] Maass U, et al. **Vasa** 1989;18(3):209–14 (Eng. Abstr.) (Ger)
[Regulation of ischemic muscle metabolism in peripheral arterial occlusive disease] Rexroth W, et al. **Vasa** 1989; 18(3):190–6 (38 ref.) (Eng. Abstr.) (Ger)
[Age as a risk factor for the development of dementias? Consideration of changes in cerebral glucose metabolism with increasing age] Hoyer S. **Z Gerontol** 1989 Jul–Aug; 22(4):206–11 (82 ref.) (Eng. Abstr.) (Ger)
[Effect of physically hard labor on the locomotor system—results of an epidemiological cross-sectional study of resin tappers] Jürgens WW, et al. **Z Gesamte Hyg** 1990 Mar;36(3):155–8 (Eng. Abstr.) (Ger)
[Metabolism of free fatty acids in muscles] Kuhfahl E. **Z Gesamte Inn Med** 1989 Oct 1;44(19):574–7 (36 ref.) (Eng. Abstr.) (Ger)
[Studies of myocardial metabolism using P-31-NMR spectroscopy and a simple heart perfusion model of slaughtered animals—an approach to avoiding in vivo animal experiments] Henze E, et al. **Z Kardiol** 1989 Sep; 78(9):553–60 (Eng. Abstr.) (Ger)
[Pathophysiology of post-aggression metabolism] Beisbarth H, et al. **Zentralbl Chir** 1989;114(16):1045–58 (29 ref.) (Eng. Abstr.) (Ger)
[Energy demands and supply in polytraumatized patients in the postoperative phase] Hackl JM, et al. **Zentralbl Chir** 1989;114(17):1155–64 (Eng. Abstr.) (Ger)
[The effect of glucocorticoid on the glucose metabolism of pigmy goats. 1. Selected metabolites of energy metabolism] Sandner N, et al. **Zentralbl Veterinarmed [A]** 1990 Feb; 37(1):35–44 (Eng. Abstr.) (Ger)
[Energy expenditure at rest and body composition in obese subjects before and after weight loss] Verga S, et al. **Recenti Prog Med** 1989 Nov;80(11):574–6 (Eng. Abstr.) (Ita)
[Prolonged preservation of isolated canine hearts: evaluation by measuring myocardial energy charge] Edazawa H. **Hokkaido Igaku Zasshi** 1989 Sep;64(5):606–17 (Eng. Abstr.) (Jpn)
[The oxygen dependence of the energy state of cardiac tissue—31P-NMR and optical measurement of myoglobin in perfused rat heart] Fukuda H. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):466–73 (Eng. Abstr.) (Jpn)
[Changes in myocardial energy charge and energy metabolism following anoxic cardiac arrest and subsequent resuscitation] Kori S. **Masui** 1990 Jun;39(6):763–72 (Eng. Abstr.) (Jpn)
[31P nuclear magnetic resonance study of intrahepatic energy metabolism in acute liver failure] Munakata T, et al. **Nippon Geka Gakkai Zasshi** 1990 Jan;91(1):77–85 (Eng. Abstr.) (Jpn)
[Alteration of regional calcium and energy metabolism in ischemic neuronal injury] Kobayashi S. **Nippon Geka Hokan** 1989 Jan 1;58(1):43–58 (Eng. Abstr.) (Jpn)
[Intrarenal energy metabolism in ischemic renal injury in rabbits] Kihara K. **Nippon Jinzo Gakkai Shi** 1989 Jul; 31(7):699–703 (Eng. Abstr.) (Jpn)
[Molecular biology of energy supplying system of skeletal muscle] Kagawa Y. **Nippon Rinsho** 1990 Jul;48(7):1372–8 (Jpn)
[Mitochondrial disease: its aspect and trend] Kobayashi M, et al. **Nippon Rinsho** 1989 Aug;47(8):1872–9 (31 ref.) (Jpn)
[Effects of betaxolol, a cardioselective beta-adrenoceptor antagonist, on ischemic myocardial energy and carbohydrate metabolism in dogs] Abe Y, et al. **Nippon Yakurigaku Zasshi** 1990 Jun;95(6):319–25 (Eng. Abstr.) (Jpn)
[Tissue pH and energy metabolism in cerebral embolization model of rat] Yamane K, et al. **No To Shinkei** 1990 Feb; 42(2):167–73 (Eng. Abstr.) (Jpn)
[Validity of daily energy expenditure estimated by calorie counter combined with accelerometer] Yamada S, et al. **Sangyo Ika Daigaku Zasshi** 1990 Mar 1;12(1):77–82 (Eng. Abstr.) (Jpn)
[Ubiquinol oxidases in the respiratory chain of Escherichia coli] Kita K. **Seikagaku** 1990 Jun;62(6):417–33 (107 ref.) (Jpn)
[Energy metabolism and neuronal activity in brain slice—effect of deprivation of oxygen and glucose] Okada Y. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1137–50 (Jpn)
[Abnormality in the mitochondrial energy-producing system] Ozawa T, et al. **Tanpakushitsu Kakusan Koso** 1988 Apr; 33(5):824–7 (Jpn)
[Mechanism for energy dependence in intracellular protein breakdown] Tanaka K. **Tanpakushitsu Kakusan Koso** 1989 Aug;34(10):1267–78 (99 ref.) (Jpn)
[Effect of hormonal dysfunction on the metabolism of high-energy phosphorus compounds in the myocardium] Wajdowicz A. **Folia Med Cracov** 1988;29(3–4):187–220 (Eng. Abstr.) (Pol)
[Mechanisms of myocardial damage in the conditions of ischemia and reperfusion] Polańska D, et al. **Przegl Lek** 1989;46(11):771–3 (15 ref.) (Pol)
[Metabolic changes in simulated weightlessness] Stazhadze LL, et al. **Anesteziol Reanimatol** 1990 May–Jun;(3):38–40 (Eng. Abstr.) (Rus)
[Energy state of hepatocytes of fed rats isolated by the means of EDTA and vibration] Petrenko AIu, et al. **Biokhimiia** 1989 Dec;54(12):1952–5 (Eng. Abstr.) (Rus)
[Relation between the energy state of the myocardium and the release of products of anaerobic metabolism] Pisarenko OI, et al. **Biokhimiia** 1990 Jan;55(1):114–25 (Eng. Abstr.) (Rus)
[A preclinical evaluation of the antianginal activity of energy metabolism intermediates] Kostin VI. **Farmakol Toksikol** 1989 Nov–Dec;52(6):49–52 (Eng. Abstr.) (Rus)
[Sanitary and hygienic evaluation of nutrition, energy expenditure and the status of various metabolic processes in persons working on ships and barges of the USSR Ministry of the Gas Industry] Khmel'kov VP, et al. **Gig Sanit** 1989 Dec;(12):16–8 (Rus)
[Changes in energy metabolism of the myocardium in rats subjected to various physical loads] Kuznetsov SL, et al. **Gig Sanit** 1989 Jun;(6):80–2 (Rus)
[Energy expenditure and response of the cardiovascular system during performance of everyday exercises by patients with ischemic heart disease of various functional classes] Aronov DM, et al. **Kardiologiia** 1989 Nov; 29(11):79–83 (Eng. Abstr.) (Rus)
[Energy loss by the body during gastrectomy] Dmitriev IuIa, et al. **Klin Khir** 1989;(8):26–7 (Eng. Abstr.) (Rus)
[Composition of exhaled air, gas and energy metabolism and bio- chemical indicators of the blood and urine in humans after long- term exposure to hypercapnia and hypoxia] Savina VP, et al. **Kosm Biol Aviakosm Med** 1990 Mar–Apr; 24(2):49–51 (Eng. Abstr.) (Rus)
[Energy expenditure for the consumption of mineral components from the environment by microorganisms] Ivanov VN. **Mikrobiol Zh** 1986 Jul–Aug;48(4):3–8 (Eng. Abstr.) (Rus)
[Theoretical estimation of the transmembrane difference of the electrochemical potential of ions as an energy depot in microorganisms] Ivanov VN. **Mikrobiol Zh** 1989 May–Jun;51(3):13–6 (Eng. Abstr.) (Rus)
[Relation between the energy parameters and the free pool of polyamines in Escherichia coli during synchronous growth] Tkachenko AG, et al. **Mikrobiologiia** 1990 Jan–Feb;59(1):12–8 (Eng. Abstr.) (Rus)
[The effect of initial bioenergetic state on the cryostability of yeast cells] Tsutsaeva AA, et al. **Mikrobiologiia** 1989 Sep–Oct;58(5):785–90 (Eng. Abstr.) (Rus)
[Energy of the transmembrane DNA transfer in bacteria] Sabel'nikov AG. **Mol Gen Mikrobiol Virusol** 1989 Nov; (11):3–13 (74 ref.) (Eng. Abstr.) (Rus)
[Energy metabolism in arteries and veins in modelling epinephrine damage to the vascular wall] Byts' IuV, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):63–6 (Eng. Abstr.) (Rus)
[Aggregation of blood platelets and their energetic status in acute arterial hypertension] Shestakova SA, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):61–3 (Eng. Abstr.) (Rus)
[Preparation and isolation of dansyladenylates as fluorescent substrates in reactions of the energy metabolism] Tkachenko AG. **Prikl Biokhim Mikrobiol** 1990 Jan–Feb; 26(1):124–30 (Eng. Abstr.) (Rus)
[Carbohydrate-energy metabolism of periodontal bony tissue in the artificial modelling of traumatic occlusion] Shvarts VV. **Stomatologiia (Mosk)** 1990 Jan–Feb;69(1):17–9 (Eng. Abstr.) (Rus)
[The effect of pH and pO2 changes in the blood on the energy

metabolism of human erythrocytes in old age] Bogatskaia LN, et al. **Ukr Biokhim Zh** 1989 Jul–Aug;61(4):110–2 (Eng. Abstr.) **(Rus)**

[Activity of various enzymes of energy metabolism in the rat kidney and intestines in vitamin D and K deficiency] Kodentsova VM, et al. **Ukr Biokhim Zh** 1989 Jul–Aug; 61(4):77–82 (Eng. Abstr.) **(Rus)**

[Energy metabolism in the brain during experimental hemorrhagic shock] Loginova MP, et al. **Vopr Med Khim** 1990 May–Jun;36(3):20–4 (Eng. Abstr.) **(Rus)**

[Reexamination of the recommended values for requirements of energy and food substances] **Vopr Pitan** 1989 Sep–Oct; (5):17 **(Rus)**

[A physiologic approach to determining and classifying the energy requirements of the population of the USSR] Gapparov MM. **Vopr Pitan** 1989 Nov–Dec;(6):4–8 (Eng. Abstr.) **(Rus)**

[Energy expenditure of workers at modern animal–breeding complexes] Smoliar VI, et al. **Vopr Pitan** 1989 Sep–Oct; (5):36–40 (Eng. Abstr.) **(Rus)**

[Changes in energy metabolism in the brain in experimental cerebral ischemia of different degree of severity (nuclear magnetic resonance–spectroscopic study)] Gannushkina IV, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):3–6 (Eng. Abstr.) **(Rus)**

[Comparative study of nitrogen, lipids and energy loss through the feces in children dehydrated by acute diarrhea due to rotavirus and other agents] Römer H, et al. **GEN** 1989 Jan–Mar;43(1):23–7 (24 ref.) (Eng. Abstr.) **(Spa)**

[Evolution of several enzyme activities of Aureobasidium pullulans during the transition from yeast to mycelium induced by ethanol] Sevilla MJ, et al. **Microbiologia** 1987 Jun;3(2):115–22 (Eng. Abstr.) **(Spa)**

[Immunologically disturbed energy and calcium homeostasis as a possible pathogenesis of dilated cardiomyopathy] Sylvén C. **Lakartidningen** 1989 Aug 30;86(35):2856–8 **(Swe)**

DRUG EFFECTS

Effects of glutaraldehyde and metabolic inhibitors on the vibratory responses in the isolated cochlea. Flock A, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;467:209–19

Chemical (alcohol, NaOH, NaCl and HCl)–induced changes in the gastric mucosal membrane–bound ATP–dependent energy systems. Mózsik G, et al. **Acta Physiol Hung** 1990; 75 Suppl:217–8

Behavioral and subjective effects of ethanol: relationship to cerebral metabolism using PET. de Wit H, et al. **Alcohol Clin Exp Res** 1990 Jun;14(3):482–9

Effect on the myocardial energy metabolism of angiotensin–converting enzyme inhibition in chronic heart failure. Schultheiss HP. **Am J Cardiol** 1990 Apr 3; 65(14):74G–81G

Caffeine: a double–blind, placebo–controlled study of its thermogenic, metabolic, and cardiovascular effects in healthy volunteers. Astrup A, et al. **Am J Clin Nutr** 1990 May;51(5):759–67

Energy expenditure and diet–induced thermogenesis in presence and absence of hyperphagia induced by insulin. Dulloo AG, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R717–25

Effect of epinephrine on amino acid and energy metabolism in humans. Matthews DE, et al. **Am J Physiol** 1990 Jun; 258(6 Pt 1):E948–56

Effects of corticotropin–releasing factor on energy balance in rats are sex dependent. Rivest S, et al. **Am J Physiol** 1989 Dec;257(6 Pt 2):R1417–22

Fatty acid lessens halothane's inhibition of energy metabolism in isolated hepatocytes. Becker GL. **Anesth Analg** 1990 Jan; 70(1):22–8

Isoflurane and whole body leucine, glucose, and fatty acid metabolism in dogs. Horber FF, et al. **Anesthesiology** 1990 Jul;73(1):82–92

Potassium–induced cardioplegia. Gay WA Jr. **Ann Thorac Surg** 1975 Jul;20(1):95–100

Prevention of intraoperative myocardial injury by pretreatment with pharmacological agents. Hickey PA. **Ann Thorac Surg** 1975 Jul;20(1):101–5 (18 ref.)

Metabolic arrest of the ischemic heart. Tyers GF. **Ann Thorac Surg** 1975 Jul;20(1):91–4

Alterations of energy metabolism induced by hexadecane in mice. Huguet J, et al. **Arch Int Physiol Biochim** 1989 Oct; 97(5):333–40

Effects of propentofylline on energy metabolism of the ischemic brain studied by in vivo 31P nuclear magnetic resonance spectroscopy. Sasaki M, et al. **Arzneimittelforschung** 1989 Aug;39(8):886–9

Atropine: effects on glucose metabolism. Durkot M, et al. **Aviat Space Environ Med** 1990 May;61(5):424–9

Influence of the calcium–sensitizer UDCG–115 on hemodynamics and myocardial energetics in patients with idiopathic dilated cardiomyopathy. Comparison with nitroprusside. Hasenfuss G, et al. **Basic Res Cardiol** 1989; 84 Suppl 1:225–33

Influence of isoproterenol on myocardial energetics. Experimental and clinical investigations. Hasenfuss G, et al. **Basic Res Cardiol** 1989;84 Suppl 1:147–55

Antiischemic effects of alinidine in paced isolated rat hearts. Streller I, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):71–7

Effect of rhein on the glucose metabolism of Ehrlich ascites tumor cells. Floridi A, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):217–22

The effect of prenylamine and organic nitrates on the bioenergetics of bovine catecholamine storage vesicles. Grønberg M, et al. **Biochem Pharmacol** 1990 Jul 15; 40(2):351–5

Altered hepatic energy status in chlordecone (Kepone)–potentiated CCl4 hepatotoxicity. Kodavanti PR, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):859–66

Oxidant–induced changes in the cellular energy homeostasis. A study with 3,5–dimethyl N–acetyl–p–benzoquinone imine and isolated hepatocytes. Rundgren M, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):239–43

Metabolic effects of forskolin in chick chondrocytes. Hu LM, et al. **Biochim Biophys Acta** 1989 Oct 9;1013(3):294–9

The influence of an egg–associated peptide on energy metabolism in sea–urchin spermatozoa: the peptide stimulates preferential hydrolysis of phosphatidylcholine and oxidation of fatty acid. Mita M, et al. **Biochim Biophys Acta** 1990 Aug 17;1035(2):175–81

Support of Xenopus laevis spermatogenesis in vitro by different energy substrates. Risley MS. **Biol Reprod** 1990 Mar;42(3):511–22

Energy state, glycolytic intermediates and mitochondrial function in the liver during reversible and irreversible endotoxin shock. Kopprasch S, et al. **Biomed Biochim Acta** 1989;48(9):653–9

Effects of phenylhydrazine hydrochloride on energy metabolism in rabbit erythrocytes and reticulocytes. Zivkovic RV, et al. **Biomed Biochim Acta** 1990; 49(2–3):S172–7

Cyclosporin A and verapamil have different effects on energy metabolism in multidrug–resistant tumour cells. Broxterman HJ, et al. **Br J Cancer** 1990 Jul;62(1):85–8

Energy expenditure associated with sodium/potassium transport and protein synthesis in skeletal muscle and isolated hepatocytes from hyperthyroid sheep. McBride BW, et al. **Br J Nutr** 1989 Nov;62(3):673–82

Possible therapeutic effect of naftidrofuryl oxalate on brain energy metabolism after microsphere–induced cerebral embolism. Miyake K, et al. **Br J Pharmacol** 1989 Oct; 98(2):389–96

Growth, food intake and energy balance of layer and broiler chickens offered glucose in the drinking water and the effect of dietary protein content. Engku Azahan EA, et al. **Br Poult Sci** 1989 Dec;30(4):907–17

Effect of injections of contrast media on regional uptake of (14C)–2–deoxyglucose by the rat brain. Cicciarello R, et al. **Brain Inj** 1990 Jan–Mar;4(1):71–6

Metabolic effects of neuropeptide Y injections into the paraventricular nucleus of the hypothalamus. Menéndez JA, et al. **Brain Res** 1990 May 14;516(1):8–14

Adenylate energy charge and adenine nucleotide measurements as indicators of stress in the mussel, Mytilus edulis, treated with dredged material under laboratory conditions. Zaroogian GE, et al. **Bull Environ Contam Toxicol** 1989 Sep;43(3):428–35

Altered antioxidant status in the ischemic/reperfused rabbit myocardium: effects of allopurinol. Godin DV, et al. **Can J Cardiol** 1989 Oct;5(7):365–71

Effect of fatty acid composition of dietary fat on energy balance and expenditure in hamsters. Jones PJ. **Can J Physiol Pharmacol** 1989 Sep;67(9):994–8

Effect of chemotherapy on resting energy expenditure in patients with non–Hodgkin's lymphoma. Results of a sequential study. Delarue J, et al. **Cancer** 1990 Jun 1; 65(11):2455–9

31P–nuclear magnetic resonance studies of the effect of recombinant human interleukin 1 alpha on the bioenergetics of RIF–1 tumors. Constantinidis I, et al. **Cancer Res** 1989 Nov 15;49(22):6379–82

Effects on growth and energy metabolism in untransformed and transformed BALB/c mouse fibroblasts by a novel cytotoxic compound. Keler T, et al. **Cancer Res** 1989 Dec 15;49(24 Pt 1):7093–7

The effect of reserpine and guanethidine on carbohydrate metabolism in ischaemic rat myocardium. Metz V, et al. **Cardiovasc Res** 1989 May;23(5):385–9

N–acetyl–p–benzoquinone imine–induced changes in the energy metabolism in hepatocytes. Andersson BS, et al. **Chem Biol Interact** 1990;75(2):201–11

Comparative effects of three naturally occurring furanocoumarins on mitochondrial bioenergetics. Olorunsogo OO, et al. **Chem Biol Interact** 1990; 74(3):263–74

pH–dependent effects of lidocaine on defibrillation energy requirements in dogs. Echt DS, et al. **Circulation** 1989 Oct; 80(4):1003–9

Effects of beta–adrenergic blockade on meal–induced thermogenesis [letter; comment] Astrup A, et al. **Clin Physiol** 1990 May;10(3):305–7 Comment on: Clin Physiol 1989 Aug;9(4):321–32.

Lower fat deposition and energy utilization of growing rats fed diets containing sorbose. Furuse M, et al. **Comp Biochem Physiol [A]** 1989;94(4):813–7

Effects of glucose on fuel utilization and glycerol turnover in normal and injured man. Jeevanandam M, et al. **Crit Care Med** 1990 Feb;18(2):125–35

Effect of stress on a freshwater benthic detritivore: scope for growth in Gammarus pulex. Maltby L, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):285–91

Assessment of industrial sewage impacts by adenylate energy charge measurements in the bivalve Cerastoderma edule. Picado AM, et al. **Ecotoxicol Environ Safety** 1990 Feb; 19(1):1–7

The effects of substrate utilization, manipulated by caffeine, on post–exercise oxygen consumption in untrained female subjects. Chad K, et al. **Eur J Appl Physiol** 1989; 59(1–2):48–54

Analysis of the control of respiration rate, phosphorylation rate, proton leak rate and protonmotive force in isolated mitochondria using the 'top–down' approach of metabolic control theory. Hafner RP, et al. **Eur J Biochem** 1990 Mar 10;188(2):313–9

60 min normothermic liver ischemia in rats: allopurinol improves energy status and bile flow during reperfusion. Karwinski W, et al. **Eur Surg Res** 1990;22(1):27–33

Influence of early neonatal phenobarbital exposure on cerebral energy metabolism and behavior. Pereira de Vasconcelos A, et al. **Exp Neurol** 1990 May;108(2):176–87

Effects of a high lipidic diet on murine energetic reserves in food deprivation. Cartañà J, et al. **Horm Metab Res** 1989 Nov;21(11):606–11

Effects of methyl [5 [[4–(2–pyridinyl)–1–piperazinyl]carbonyl]–1H–benzimidazol–2–yl] carbamate on energy metabolism of Ancylostoma ceylanicum and Nippostrongylus brasiliensis. Srivastava JK, et al. **Indian J Exp Biol** 1989 Aug; 27(8):735–8

The effect of a soluble dietary fibre supplement on 24–hour energy expenditure during a standardized physical activity programme. Ryttig KR, et al. **Int J Obes** 1990;14(5):451–5

Cellular energy status of the gastric mucosa and gastric mucosal prevention by vitamin A in indomethacin–treated rats. Mózsik G, et al. **Int J Tissue React** 1989;11(2):65–71

Effect of exogenous porcine somatotropin administration on nitrogen and energy metabolism in three genotypes of pigs. Verstegen MW, et al. **J Anim Sci** 1990 Apr;68(4):1008–16

Age–related difference in bioenergetics of lung and heart mitochondrial from rats exposed to ozone. Zychlinski L, et al. **J Biochem Toxicol** 1989 Winter;4(4):251–4

Effect of ibuprofen on the postburn hypermetabolic response: a case report. Waymack JP, et al. **J Burn Care Rehabil** 1990 Jul–Aug;11(4):340–2

Influence of enoximone on myocardial energetics in patients with idiopathic dilated cardiomyopathy: comparison with nitroprusside. Hasenfuss G, et al. **J Cardiovasc Pharmacol** 1989;14 Suppl 1:S69–74

The response of the Golgi complex to microtubule alterations: the roles of metabolic energy and membrane traffic in Golgi complex organization. Turner JR, et al. **J Cell Biol** 1989 Nov;109(5):2081–8

Effect of lasalocid on performance of lactating dairy cows. Weiss WP, et al. **J Dairy Sci** 1990 Jan;73(1):153–62

The antipsoriatic compound anthralin influences bioenergetic parameters and redox properties of energy transducing membranes. Fuchs J, et al. **J Invest Dermatol** 1990 Jan; 94(1):71–6

Effects of N–methyl–D–aspartate on [Ca2+]i and the energy state in the brain by 19F– and 31P–nuclear magnetic resonance spectroscopy. Ben–Yoseph O, et al. **J Neurochem** 1990 Oct;55(4):1446–9

Effects of diltiazem on bioenergetics, K+ gradients, and free cytosolic Ca2+ levels in rat brain synaptosomes submitted to energy metabolism inhibition and depolarization. Dagani F, et al. **J Neurochem** 1989 Nov;53(5):1379–89

Effect of extracellular potassium on ouabain–sensitive consumption of high–energy phosphate by crayfish giant axons: a study of the energy requirement for transport in the steady state. Lieberman EM, et al. **J Neurochem** 1990 Jul;55(1):155–64

Effects of ammonia on brain energy metabolites—dose–dependent alterations [letter; comment] Matsuoka M, et al. **J Neurochem** 1990 Jul;55(1):354–5 Comment on: J Neurochem 1989 Jul;53(1):102–10.

Inotropic and lusitropic effects of chlorpromazine on rat left ventricular papillary muscle. Clergue M, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):296–304

Substrate dependence of energy metabolism in isolated guinea–pig cardiac muscle: a microcalorimetric study. Daut J, et al. **J Physiol (Lond)** 1989 Jun;413:379–97

Estradiol induction of accelerated energy metabolism in prepuberal rat uteri in vitro: mRNA hybridization and [13C]NMR studies. Kaye AM, et al. **J Steroid Biochem** 1989;34(1–6):289–92

Effect of propranolol on nitrogen and energy metabolism in sepsis. Dickerson RN, et al. **J Surg Res** 1990 Jan; 48(1):38–41

Barbiturate therapy reduces nitrogen excretion in acute head injury. Fried RC, et al. **J Trauma** 1989 Nov;29(11):1558–64

Short–term infusion of azelaic acid vs intralipid in healthy subjects evaluated by indirect calorimetry. Tacchino RM, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr; 14(2):169–72

Beneficial effect of nipradilol (K–351) on acute myocardial ischemia. Study of the relationship between regional myocardial blood flow and energy metabolism [published erratum appears in Jpn J Pharmacol 1990 Apr;52(4):657] Okamoto Y, et al. **Jpn J Pharmacol** 1990 Feb;52(2):371–7

Influence of aging and drug treatment on the bioenergetics of hypoxic brain. Benzi G, et al. **Neurochem Res** 1990 Jul; 15(7):659–65

An approach to the development of drugs for appetite disorders. Morley JE. **Neuropsychobiology** 1989;21(1):22–30

(92 ref.)
Gammahydroxybutyrate: an endogenous regulator of energy metabolism. Mamelak M. **Neurosci Biobehav Rev** 1989 Winter;13(4):187–98 (213 ref.)
Ammonia causes a drop in intracellular pH in metabolizing cortical brain slices. A [31P]- and [1H]nuclear magnetic resonance study. Brooks KJ, et al. **Neuroscience** 1989; 33(1):185–92
The effects of 0.8 g.kg ethanol on cerebral metabolism and mood in normal volunteers. de Wit H, et al. **NIDA Res Monogr** 1989;95:450
Energy substrate metabolism in testis of rats treated with delta-9-tetrahydrocannabinol (THC) and cocaine (COC). Husain S. **NIDA Res Monogr** 1989;95:509–10
Metabolic effects of nicotine in smokers and non-smokers. Perkins KA, et al. **NIDA Res Monogr** 1989;95:469–70
Effect of ethanol on hepatic energy metabolism and intracellular pH in chronically ethanol-treated rats. A 31P NMR study of normoxic or hypoxic perfused liver. Desmoulin F, et al. **NMR Biomed** 1990 Jun;3(3):132–8
Effect of inhaled disodium cromoglycate and albuterol on energy cost of running in asthmatic children. Zanconato S, et al. **Pediatr Pulmonol** 1990;8(4):240–4
The effects of bilirubin on brain energy metabolism during hyperosmolar opening of the blood–brain barrier: an in vivo study using 31P nuclear magnetic resonance spectroscopy. Ives NK, et al. **Pediatr Res** 1989 Oct;26(4):356–61
Effect of VIP on the respiratory burst in human monocytes ex vivo during prolonged strain and energy deficiency. Wiik P, et al. **Peptides** 1989 Jul–Aug;10(4):819–23
Effects of corn oil addition to the diet on the energy metabolism of heart, liver and kidney of female rats. Bachmann E, et al. **Pharmacol Toxicol** 1990 Jul;67(1):49–55
Effects of antianginal drugs on myocardial energy metabolism in coronary artery disease. Bagger JP. **Pharmacol Toxicol** 1990;66 Suppl 4:1–31 (227 ref.)
Effects of hematoporphyrin derivative on the cellular energy metabolism in the absence and presence of light. Khanum F, et al. **Photochem Photobiol** 1989 Nov;50(5):647–51
Effects of delta-9-tetrahydrocannabinol on in vitro energy substrate metabolism in mouse and rat testis. Husain S. **Physiol Behav** 1989 Jul;46(1):65–8
Effect of interscapular brown adipose tissue denervation on body weight and feed efficiency in alcohol drinking rats. Larue-Achagiotis C, et al. **Physiol Behav** 1989 Aug; 46(2):195–7
Effects of aspartame and sucrose on hunger and energy intake in humans. Mattes R. **Physiol Behav** 1990 Jun;47(6):1037–44
The effect of PGE in multiple experimental models. II. Effect on steady-state levels of plasma and brain amino acids and transmitters. Waymack JP, et al. **Physiol Behav** 1989 Jun; 45(6):1201–5
Competing antagonists to energy production in space and their effect on calcium metabolism. Tanner HA. **Physiologist** 1990 Feb;33(1 Suppl):S98–9 (15 ref.)
Energetic consequences of positive inotropic interventions in guinea pig papillary muscles. Holubarsch C, et al. **Prog Clin Biol Res** 1989;315:608–9
Anesthetic influence on myocardial energy metabolism during hemorrhagic shock in rats. Kashimoto S, et al. **Resuscitation** 1990 Apr;19(2):159–65
Halothane impairs the bioenergetic functions of isolated rat liver mitochondria. Tsuchiya M, et al. **Toxicol Appl Pharmacol** 1990 Jul;104(3):466–75
[Influence of local anesthetics and narcotics on the energy metabolism of Ehrlich ascites tumor cells.] Buttgereit F, et al. **Biomed Biochim Acta** 1990;49(1):3–10 (Eng. Abstr.) **(Ger)**
[The metabolism of organ cultures of cornea in TC 199 with added dextran 500 or hydroxyethyl starch 450] Reim M, et al. **Klin Monatsbl Augenheilkd** 1990 Feb;196(2):76–80 (Eng. Abstr.) **(Ger)**
[Non-invasive follow-up control of tumor therapy following chemotherapy using 31P-MR spectroscopy in whole body tomography] Semmler W, et al. **Onkologie** 1989 Aug;12 Suppl 1:46–50 (Eng. Abstr.) **(Ger)**
[Performance modification in sports by beta receptor blockers] Aigner A. **Wien Med Wochenschr** 1990 Apr 15; 140(6–7):163–70 (116 ref.) (Eng. Abstr.) **(Ger)**
[How do beta receptor blockers modify physical performance and metabolism?] Kindermann W. **Wien Med Wochenschr** 1990 Apr 15;140(6–7):170–6 (20 ref.) (Eng. Abstr.) **(Ger)**
[The effect of L-carnitine on the energy metabolism of isolated rat heart perfused by Langendorff's method using 31P-NMR spectroscopy] Löster H, et al. **Z Med Lab Diagn** 1990;31(3):123–7 (Eng. Abstr.) **(Ger)**
[Effects of dichloroacetate in the ischemic heart. Analysis of hemodynamics, myocardial energy metabolism and myocardial pH] Mizushima M. **Hokkaido Igaku Zasshi** 1990 May;65(3):298–310 (Eng. Abstr.) **(Jpn)**
[Effect of vasopressin on rabbit hepatic energy metabolism evaluated using in vivo P-31 magnetic resonance spectroscopy] Ono S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Sep;86(9):2204–9 (Eng. Abstr.) **(Jpn)**
[Evaluation of the effect of mazindol on the metabolism and lipolysis in obese women] Kucio C, et al. **Pol Arch Med Wewn** 1987 Mar;77(3):73–6 (Eng. Abstr.) **(Pol)**
[Status of the adenine system of the rat liver after administration of anthracycline antibiotics] Ermolitskaia GR, et al. **Antibiot Khimioter** 1989 Nov;34(11):853–5 (Eng. Abstr.) **(Rus)**
[Centrosome behavior in the exposure of tissue culture cells to energy metabolism inhibitors] Alieva IB, et al. **Biol Nauki** 1989;(6):45–9 (Eng. Abstr.) **(Rus)**
[Effect of the antioxidant ionol on energy metabolic indices and heart function during acute hypoxia and subsequent reoxygenation] Golubeva LIu, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):685–8 (Eng. Abstr.) **(Rus)**
[The action of strophanthin K and beta-acetyldigoxin in vitro on the energy transformation by the contractile protein system of the normal cardiomyocyte] Karsanov NV, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):686–9 (Eng. Abstr.) **(Rus)**
[The effect of antitumor preparations on the energy metabolism of melanoma B16 in mice. A 31P-NMR method in vivo] Shkarin PIu, et al. **Dokl Akad Nauk SSSR** 1989; 309(4):996–9 **(Rus)**
[Energy metabolism characteristics of various sections of the rat brain under the action of ethanol and lithium carbonate] Korablev MV, et al. **Farmakol Toksikol** 1989 Sep–Oct; 52(5):83–6 (Eng. Abstr.) **(Rus)**
[The effect of testosterone propionate on energy metabolism indices and the catecholamine content of the vascular wall] Nikulin AA, et al. **Farmakol Toksikol** 1989 Nov–Dec; 52(6):65–8 (Eng. Abstr.) **(Rus)**
[The cardioprotective action of carnitine and its structural analog 3-(2,2,2-trimethylhydrazine)propionate on cardiac energy metabolism in experimental occlusion of the coronary artery in rats] Ratunova TM, et al. **Farmakol Toksikol** 1989 Sep–Oct;52(5):24–7 (Eng. Abstr.) **(Rus)**
[Mechanisms of action of ethanol on carbohydrate-energy metabolism in the brain] Panchenko LF, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):83–8 (53 ref.) **(Rus)**
[The effect of the plasma of patients with asthma of physical effort on the energy state of the lymphocytes] Didkovskiĭ NA, et al. **Ter Arkh** 1990;62(3):63–5 (Eng. Abstr.) **(Rus)**
[Impairment of energy metabolism in rabbit tissues during ammonia toxicosis] Makarenko ON, et al. **Ukr Biokhim Zh** 1989 Nov–Dec;61(6):94–8 (Eng. Abstr.) **(Rus)**
[Stimulation of energy plastic metabolism by phytohemagglutinin in lymphoid organs and adrenal glands] Soroka VR, et al. **Ukr Biokhim Zh** 1989 Jul–Aug; 61(4):42–7 (Eng. Abstr.) **(Rus)**
[Prevention with inderal of post-resuscitation impairment of metabolism in heart and brain tissues] Dolgikh VT. **Vopr Med Khim** 1990 Jan–Feb;36(1):75–8 (Eng. Abstr.) **(Rus)**

GENETICS

A new gene responsible for an energy-transducing system in Escherichia coli [published erratum appears in Idengaku Zasshi 1989 Dec;64(6):504] Nakamura M, et al. **Idengaku Zasshi** 1989 Jun;64(3):231–8
Energy expenditure in the obese: is there a thrifty gene? Ravussin E, et al. **Infusionstherapie** 1990 Apr;17(2):108–12 (22 ref.)
[Genetics and energy metabolism in humans] Bouchard C, et al. **Journ Annu Diabetol Hotel Dieu** 1990;:33–40 (17 ref.) **(Fre)**

PHYSIOLOGY

The value of fat reserves and the tradeoff between starvation and predation. McNamara JM, et al. **Acta Biotheor (Leiden)** 1990 Mar;38(1):37–61
The effects of chronic ethanol consumption on hepatic mitochondrial energy metabolism. Cunningham CC, et al. **Alcohol Alcohol** 1990;25(2–3):127–36 (40 ref.)
Validity of reported energy intake in obese and nonobese adolescents. Bandini LG, et al. **Am J Clin Nutr** 1990 Sep; 52(3):421–5
Adaptation of energy metabolism of overweight women to alternating and continuous low energy intake. de Groot LC, et al. **Am J Clin Nutr** 1989 Dec;50(6):1314–23
Adaptive changes in energy expenditure during refeeding following low-calorie intake: evidence for a specific metabolic component favoring fat storage. Dulloo AG, et al. **Am J Clin Nutr** 1990 Sep;52(3):415–20
Simultaneous measurement of free-living energy expenditure by the doubly labeled water method and heart-rate monitoring. Livingstone MB, et al. **Am J Clin Nutr** 1990 Jul;52(1):59–65
Food energy requirements in humans. Pellett PL. **Am J Clin Nutr** 1990 May;51(5):711–22 (59 ref.)
Comparison of doubly labeled water, intake-balance, and direct- and indirect-calorimetry methods for measuring energy expenditure in adult men. Seale JL, et al. **Am J Clin Nutr** 1990 Jul;52(1):66–71
Energy expenditure and everyday eating behavior in healthy young women. Tuschl RJ, et al. **Am J Clin Nutr** 1990 Jul; 52(1):81–6
Energetic cost of standard activities in Gurkha and British soldiers. Strickland SS, et al. **Ann Hum Biol** 1990 Mar–Apr; 17(2):133–44
Comparison of a face-mask and a mouthpiece for measuring resting energy expenditure with the 'Oxylog'. Bukkens SG, et al. **Ann Nutr Metab** 1990;34(2):112–8
Respiration, circulation, and energy metabolism in exercise—their regulation and coordination. Tokyo, Japan, October 11, 1989. Proceedings. **Ann Physiol Anthropol** 1990 Apr;9(2):115–239
Neuromuscular regulation and metabolism during exercise. Moritani T. **Ann Physiol Anthropol** 1990 Apr;9(2):225–33 (56 ref.)
Protection of the myocardium with high-energy solutions. Levitsky S, et al. **Ann Thorac Surg** 1975 Jul;20(1):86–90
Regulation of energy expenditure in aging humans. Poehlman ET, et al. **Annu Rev Nutr** 1990;10:255–75 (87 ref.)
Overeating: a regulatory behaviour in restrained eaters. Wardle J. **Appetite** 1990 Apr;14(2):133–6; discussion 142–3
Ankle-foot orthoses: effect on energy expenditure of gait in spastic diplegic children. Mossberg KA, et al. **Arch Phys Med Rehabil** 1990 Jun;71(7):490–4
Ablation of abnormal energy expenditure by curative tumor resection. Luketich JD, et al. **Arch Surg** 1990 Mar; 125(3):337–41
The metabolic cost of exercising in cold air (-20 degrees C). Romet TT, et al. **Arctic Med Res** 1988;47 Suppl 1:280–5
Cold adaptation and energy balance. Shephard RJ, et al. **Arctic Med Res** 1988;47 Suppl 1:231–8 (39 ref.)
Segmental impairment of endothelium-mediated relaxation in thoracic aortas from atherosclerotic rabbits. Comparison to cholesterol infiltration and energy metabolism. Ragazzi E, et al. **Artery** 1989;16(6):327–45
Work capacity, exercise responses and body composition of professional pilots in relation to age. Loeppky JA, et al. **Aviat Space Environ Med** 1989 Nov;60(11):1077–84
Transmural inhomogeneity of extracellular [K+] and pH and myocardial energy metabolism in the isolated rat heart during acute global ischemia; dependence on gaseous environment. Schaapherder AF, et al. **Basic Res Cardiol** 1990 Jan–Feb;85(1):33–44
Sparing of visual field perception in neonatal but not adult cerebral hemispherectomized cats. Relationship with oxidative metabolism of the superior colliculus. Hovda DA, et al. **Behav Brain Res** 1990 Mar 5;37(2):119–32
Three case reports of the metabolic and electroencephalographic changes during advanced Buddhist meditation techniques. Benson H, et al. **Behav Med** 1990 Summer;16(2):90–5
Asymmetric metabolism over basal ganglia in catatonia [letter] Early TS. **Biol Psychiatry** 1990 Jul 15;28(2):177
Psychoimmunology and cellular nutrition: an alternative hypothesis [editorial] Newsholme EA. **Biol Psychiatry** 1990 Jan 1;27(1):1–3
Regulation of the energy metabolism of Plasmodium berghei. Jacobasch G, et al. **Biomed Biochim Acta** 1990; 49(2–3):S289–94
Energy balance and energy values of alpha-amylase (EC 3.2.1.1)-resistant maize and pea (Pisum sativum) starches in the rat. Livesey G, et al. **Br J Nutr** 1990 May; 63(3):467–80
Discrepancies between energy intake and expenditure in physically active women. Mulligan K, et al. **Br J Nutr** 1990 Jul;64(1):23–36
Influence of mild cold on 24 h energy expenditure in 'normally' clothed adults. Warwick PM, et al. **Br J Nutr** 1990 May;63(3):481–8
Metabolic and renal changes in two athletes during a world 24 hour relay record performance. Irving RA, et al. **Br J Sports Med** 1989 Dec;23(4):227–32
Whole heart distribution of myocardial perfusion, metabolism and myocardial viability by positron emission tomography. Araujo LI, et al. **Br Med Bull** 1989 Oct;45(4):922–32 (11 ref.)
An allometric analysis of the frequency of hippocampal theta: the significance of brain metabolic rate. Blumberg MS. **Brain Behav Evol** 1989;34(6):351–6
Early myocardial dysfunction induced with endotoxin in rhesus monkeys. Snow TR, et al. **Can J Cardiol** 1990 Apr; 6(3):130–6
T lymphocyte aggregation with immobilized anti-TCR-antibodies is dependent upon energy and microfilament assembly. DeBell KE, et al. **Cell Immunol** 1990 Apr 15;127(1):159–71
Other aspects of metabolic monitoring in critically ill patients. Konstantinides FN, et al. **Clin Chem** 1990 Aug;36(8 Pt 2):1594–603 (133 ref.)
Discrepancy between estimated energy intake and requirement in female dancers. Dahlström M, et al. **Clin Physiol** 1990 Jan;10(1):11–25
Meal-induced thermogenesis in obese patients before and after weight reduction. Thörne A, et al. **Clin Physiol** 1989 Oct;9(5):481–98
The effects of essential fatty acid deficiency on brown adipose tissue activity in rats maintained at thermal neutrality. Yazbeck J, et al. **Comp Biochem Physiol [A]** 1989; 94(2):273–6
Field deployment of a scope for growth assay involving Gammarus pulex, a freshwater benthic invertebrate. Maltby L, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):292–300
Metabolic and kinematic responses of African women headload carriers under controlled conditions of load and speed. Charteris J, et al. **Ergonomics** 1989 Dec; 32(12):1539–50
Aerobic metabolic requirements of simulated cross-country skiing. Goss FL, et al. **Ergonomics** 1989 Dec;32(12):1573–9
Heart rate and metabolic response to competitive squash in veteran players: identification of risk factors for sudden

cardiac death. Brady HR, et al. Eur Heart J 1989 Nov; 10(11):1029–35
Energy cost and efficiency of sculling a Venetian gondola. Capelli C, et al. Eur J Appl Physiol 1990;60(3):175–8
Energy metabolism and regulatory hormones in women and men during endurance exercise. Friedmann B, et al. Eur J Appl Physiol 1989;59(1–2):1–9
The integrated analysis of seasonal energy deficits: problems and prospects. Bayliss–Smith TP. Eur J Clin Nutr 1990;44 Suppl 1:113–21 (49 ref.)
Low energy expenditures in free–living populations. Durnin JV. Eur J Clin Nutr 1990;44 Suppl 1:95–102
Seasonal energy deficiency in Ethiopian rural women. Ferro–Luzzi A, et al. Eur J Clin Nutr 1990;44 Suppl 1:7–18
Seasonal energy stress in marginally nourished rural women: interpretation and integrated conclusions of a multicentre study in three developing countries. Ferro–Luzzi A. Eur J Clin Nutr 1990;44 Suppl 1:41–6
Changes in energy expenditure of light physical activity during a 10 day period at 34 degrees C environmental temperature. Garby L, et al. Eur J Clin Nutr 1990 Mar; 44(3):241–4
The possible role of skeletal muscle in the adaptation to periods of energy deficiency. Henriksson J. Eur J Clin Nutr 1990;44 Suppl 1:55–64 (36 ref.)
Energy cost of carrying loads. Jones CD. Eur J Clin Nutr 1989 Dec;43(12):881–3
Effect of meal frequency on the thermic effect of food in women. Kinabo JL, et al. Eur J Clin Nutr 1990 May; 44(5):389–95
Effects of short term nutritional manipulation on organ size and fasting heat production. Koong LJ, et al. Eur J Clin Nutr 1990;44 Suppl 1:73–7
Energy expenditure economy induced by decrease in lean body mass in anorexia nervosa. Melchior JC, et al. Eur J Clin Nutr 1989 Nov;43(11):793–9
Body mass index and body energy stores in developing countries. Norgan NG. Eur J Clin Nutr 1990;44 Suppl 1:79–84
The mechanisms for minimizing energy expenditure in human locomotion. Saibene F. Eur J Clin Nutr 1990;44 Suppl 1:65–71 (21 ref.)
Role of the sympathetic nervous system in adaptation to seasonal energy deficiency. Shetty PS, et al. Eur J Clin Nutr 1990;44 Suppl 1:47–53 (23 ref.)
The effect of psychological stress on diet–induced thermogenesis and resting metabolic rate. Weststrate JA, et al. Eur J Clin Nutr 1990 Apr;44(4):269–75
Comparison of energy expenditure estimated in healthy infants using the doubly labelled water and energy balance methods. Wong WW, et al. Eur J Clin Nutr 1990 Mar; 44(3):175–84
Energy expenditure and rib cage–abdominal motion in chronic obstructive pulmonary disease. Fitting JW, et al. Eur Respir J 1989 Oct;2(9):840–5
Energy substrate utilization during exercise in extreme environments. Young AJ. Exerc Sport Sci Rev 1990; 18:65–117 (141 ref.)
Action of thyrotropin on thyroid energetic metabolism. VI. Regulation of mitochondrial respiration. Lamy FM, et al. Exp Cell Res 1967 Jun;46(3):518–32
Pathophysiological correlates of cerebral ischemia the significance of cellular acid base shifts. Welch KM, et al. Funct Neurol 1990 Jan–Mar;5(1):21–31
Energy dissipation in the elastic recoil of leg tendons of Larus ridibundus. Olmos M, et al. Gegenbaurs Morphol Jahrb 1989;135(5):775–8
Influence of human urinary erythropoietin and L–thyroxine on blood morphology and energy reserves in two tropical species of fed and starved teleosts. Pradhan RK, et al. Gen Comp Endocrinol 1989 Dec;76(3):382–9
MR tomography and multinuclear MR spectroscopy in a whole–body MR system—applications in cancer research. Gückel F, et al. Infusionstherapie 1990 Apr;17 Suppl 3:43–7 (11 ref.)
A comparative study on different methods for the determination of energy expenditure. Wenzel C, et al. Int Arch Occup Environ Health 1990;62(1):101–3
Long–term exercise training with constant energy intake. 1: Effect on body composition and selected metabolic variables. Bouchard C, et al. Int J Obes 1990 Jan; 14(1):57–73 (39 ref.)
Long–term exercise training with constant energy intake. 3: Effects on plasma lipoprotein levels. Després JP, et al. Int J Obes 1990 Jan;14(1):85–94
Blunted glucose–induced thermogenesis in 'overweight' patients: a factor contributing to relapse of obesity. Golay A, et al. Int J Obes 1989;13(6):767–75
Pulmonary function and energy expenditure after marked weight loss in obese women: observations before and one year after gastric banding. Refsum HE, et al. Int J Obes 1990;14(2):175–83
The energetic significance of lactate accumulation in blood at altitude. Cerretelli P, et al. Int J Sports Med 1990 Feb; 11 Suppl 1:S27–30
Effect of chronic hypoxia on muscle enzyme activities. Howald H, et al. Int J Sports Med 1990 Feb;11 Suppl 1:S10–4
Energy expenditure during bicycling. McCole SD, et al. J Appl Physiol 1990 Feb;68(2):748–53
Relative importance of aerobic and anaerobic energy release during short–lasting exhausting bicycle exercise. Medbø JI, et al. J Appl Physiol 1989 Nov;67(5):1881–6
Effects of ovariectomy on energy metabolism in exercising rat muscle studied by 31P–NMR. Roth Z, et al. J Appl Physiol 1989 Nov;67(5):2060–5
Studies on the energy metabolism of opossum (Didelphis virginiana) erythrocytes: V. Utilization of hypoxanthine for the synthesis of adenine and guanine nucleotides in vitro. Bethlenfalvay NC, et al. J Cell Physiol 1990 Jun; 143(3):563–8
Spreading of trypsinized cells: cytoskeletal dynamics and energy requirements. Bereiter–Hahn J, et al. J Cell Sci 1990 May;96 (Pt 1):171–88
Characterization of cerebral energetics and brain pH by 31P spectroscopy after graded canine cardiac arrest and bypass reperfusion. Martin GB, et al. J Cereb Blood Flow Metab 1990 Mar;10(2):221–6
Carbohydrate and energy metabolism during the evolution of hypoxic–ischemic brain damage in the immature rat. Palmer C, et al. J Cereb Blood Flow Metab 1990 Mar; 10(2):227–35
Relationships between body temperature, thermal conductance, Q10 and energy metabolism during daily torpor and hibernation in rodents. Snyder GK, et al. J Comp Physiol [B] 1990;159(6):667–75
The endocrine and metabolic response to feeding in the developing lamb. Symonds ME, et al. J Endocrinol 1989 Nov;123(2):295–302
Relationships between the neuronal sodium/potassium pump and energy metabolism. Effects of K+, Na+, and adenosine triphosphate in isolated brain synaptosomes. Erecińska M, et al. J Gen Physiol 1990 Apr;95(4):591–616
Stimulation of energy intake and growth by saccharin in rats. Ramirez I. J Nutr 1990 Jan;120(1):123–33
Anaerobic energy production and O2 deficit–debt relationship during exhaustive exercise in humans. Bangsbo J, et al. J Physiol (Lond) 1990 Mar;422:539–59
Dietary effects on mood and performance. Deijen JB, et al. J Psychiatr Res 1989;23(3–4):275–83
Cardiovascular load in off–shore sailing competition. Bernardi M, et al. J Sports Med Phys Fitness 1990 Jun; 30(2):127–31
Maintenance of aerobic capacity and body composition of volunteers residing on a metabolic research unit. Lukaski HC, et al. J Sports Med Phys Fitness 1989 Sep;29(3):273–8
Heart rate and metabolic responses to participation in golf. Murase Y, et al. J Sports Med Phys Fitness 1989 Sep; 29(3):269–72
Physiological strain unique to field hockey. Reilly T, et al. J Sports Med Phys Fitness 1990 Jun;30(2):142–6
On Blum's four–dimensional geometric explanation for the 0.75 exponent in metabolic allometry. Speakman JR. J Theor Biol 1990 May 10;144(1):139–41
Epidemiologic and metabolic risk factors for childhood obesity. Prepared for the Fourth Congress on Obesity Research, Vienna, Austria, December 1988. Dietz WH, et al. Klin Padiatr 1990 Mar–Apr;202(2):69–72 (20 ref.)
Metabolic actions of estradiol: significance for acute and chronic exercise responses. Bunt JC. Med Sci Sports Exerc 1990 Jun;22(3):286–90 (29 ref.)
The body as a bioenergetic system—lessons from systems engineering and comparative physiology. Linnarsson D. Med Sci Sports Exerc 1990 Feb;22(1):59–61
Effect of training on the anaerobic capacity. Medbø JI, et al. Med Sci Sports Exerc 1990 Aug;22(4):501–7
Energy exchange in downhill and uphill walking: a calorimetric study. Nagle FJ, et al. Med Sci Sports Exerc 1990 Aug;22(4):540–4
Differences in propelling efficiency between competitive and triathlon swimmers. Toussaint HM. Med Sci Sports Exerc 1990 Jun;22(3):409–15
Frontal hypermetabolism and thalamic hypometabolism in a patient with abnormal orienting and retrosplenial amnesia. Heilman KM, et al. Neuropsychologia 1990;28(2):161–9
Does dietary hyperphagia contradict the lipostatic theory? Ramirez I. Neurosci Biobehav Rev 1990 Summer; 14(2):117–23 (60 ref.)
Relations between the energy state of the myocardium and release of some products of anaerobic metabolism during underperfusion. Pisarenko OI, et al. Pflugers Arch 1990 Jun;416(4):434–41
Energy cost, exercise intensity, and gait efficiency of standard versus rocker–bottom axillary crutch walking. Nielsen DH, et al. Phys Ther 1990 Aug;70(8):487–93
The effect of wheel running and the estrous cycle on energy expenditure in female rats. Anantharaman–Barr HG, et al. Physiol Behav 1989 Aug;46(2):259–63
Effects of cold acclimation on the energetic metabolism of the staggerer mutant mouse. Bertin R, et al. Physiol Behav 1990 Feb;47(2):377–80
Meal–feeding and physical effort. 1. Metabolic changes induced by exercise training. Curi R, et al. Physiol Behav 1990 May;47(5):869–73
Meal–feeding and physical effort. 2. Metabolic changes induced by an acute exercise. Curi R, et al. Physiol Behav 1990 May;47(5):875–9
Dietary hyperphagia in rats: role of fat, carbohydrate, and energy content. Ramirez I, et al. Physiol Behav 1990 Jun; 47(6):1157–63
Comparative physiology of sleep, thermoregulation and metabolism from the perspective of energy conservation. Berger RJ, et al. Prog Clin Biol Res 1990;345:41–50; discussion 51–2 (28 ref.)
Effect of metabolic rate on the occurrence of periodic breathing. Cherniack NS, et al. Prog Clin Biol Res 1990; 345:167–74; discussion 175–6
Thermoregulation and energetics in subterranean mammals. Contreras LC, et al. Prog Clin Biol Res 1990;335:231–50 (49 ref.)
Energetics and mechanics of contracting white myotomal fibres from dogfish, Scyliorhinus canicula. Curtin NA, et al. Prog Clin Biol Res 1989;315:127–35
The use of 31P–NMR to study smooth muscle. Dillon PF, et al. Prog Clin Biol Res 1989;315:439–49
Energy turnover in hypoxic heart muscle. Elzinga G, et al. Prog Clin Biol Res 1989;315:555–66
Crossbridge phosphorylation and the energetics of contraction in the swine carotid media. Hai CM, et al. Prog Clin Biol Res 1989;315:253–63
The elementary process in the actomyosin energy transduction system. Harada Y, et al. Prog Clin Biol Res 1989;315:27–36
Low tension cost of the procine coronary artery under various metabolic conditions. Hashimoto M, et al. Prog Clin Biol Res 1989;315:467–8
Relationship of isometric unexplained energy production to parvalbumin content in frog skeletal muscle. Rall JA. Prog Clin Biol Res 1989;315:117–26 (39 ref.)
Load– and contractility–independent stoichiometry of energy conversion from excess oxygen consumption to total mechanical energy in canine left ventricle. Suga H, et al. Prog Clin Biol Res 1989;315:543–54 (30 ref.)
The duty cycle of single muscle fibers from Xenopus laevis. van der Laarse WJ, et al. Prog Clin Biol Res 1989;315:87–97
Metabolic cost of processes linking excitation to contraction in smooth muscle. Wendt IR. Prog Clin Biol Res 1989; 315:405–16
Oxidative capacity distribution in the cardiac myocytes of hypermetabolic rats. Sillau AH, et al. Respir Physiol 1990 Mar;79(3):279–91
Impact of energy intake and exercise on resting metabolic rate. Molé PA. Sports Med 1990 Aug;10(2):72–87 (98 ref.)
Human achondroplasia: defective mitochondrial oxidative energy metabolism may produce the pathophysiology. Mackler B, et al. Teratology 1989 Dec;40(6):571–82 (38 ref.)
Metabolic adaptation to decreases in energy intake due to changes in the energy cost of low energy expenditure regimen. Garby L. World Rev Nutr Diet 1990;61:173–208 (44 ref.)
Pancreatic exocrine secretion—a measure of the functional capacity of the pancreatic energy metabolism. Letko G, et al. Z Exp Chir Transplant Kunstliche Organe 1989; 22(5):276–81
Glycogen effects on energy state and passive electric properties of liver during protection. Kehrer G, et al. Z Gastroenterol 1990 Mar;28(3):147–56
The adenosine hypothesis of metabolic regulation of coronary flow in the light of newly recognized properties of the coronary endothelium. Nees S. Z Kardiol 1989;78 Suppl 6:42–9 (39 ref.)
[Energy expenditure items] Girardier L. Journ Annu Diabetol Hotel Dieu 1990;:7–25 (66 ref.) (Fre)
[Nutrient balance regulation in subjects with normal weight and in obese patients] Jéquier E. Journ Annu Diabetol Hotel Dieu 1990;:51–9 (21 ref.) (Fre)
[Energy expenditure in obese patients] Ravussin E. Journ Annu Diabetol Hotel Dieu 1990;:41–50 (31 ref.) (Fre)
[Relation of total cutaneous and nutritional microcirculation in patients with arterial insufficiency of the lower extremities] Bongard O, et al. Vasa Suppl 1989;27:35 (Fre)
[The oxidation rate of various, parenterally administered 13C–marked triglycerides in polytraumatized patients] Adolph M, et al. Beitr Infusionther 1990;25:439–55 (Ger)
[The effect of various fat emulsions on metabolism and energy balance] Adolph M, et al. Beitr Infusionther 1990;25:314–36 (Ger)
[Optimizing parenteral nutrition using indirect calorimetry] Behrendt W. Beitr Infusionther 1990;25:304–13 (Ger)
[Nuclear magnetic resonance] Boesch C. Beitr Infusionther 1990;25:359–73 (41 ref.) (Ger)
[Critical evaluation of periodic metabolic measurements for determination of the diurnal energy metabolism of traumatized patients] Fauth U, et al. Beitr Infusionther 1990;25:277–88 (Ger)
[Independent measurement of oxygen uptake and heart time volumes in patients following mitral valve replacement] Fournell A. Beitr Infusionther 1990;25:289–303 (Ger)
[Postoperative protein metabolism with the 13C–leucine tracer technic in demand–adapted parenteral nutrition] Günther HJ, et al. Beitr Infusionther 1990;25:412–22 (Ger)
[The long–term pattern of O2 uptake in polytraumatized artificially ventilated patients] Guttmann J. Beitr Infusionther 1990;25:259–76 (Ger)
[Pyruvate metabolism using stable isotopes] Hartl WH, et al. Beitr Infusionther 1990;25:389–98 (Ger)
[Significance of bicarbonate kinetics for 13CO2 respiratory gas analysis] Keles T, et al. Beitr Infusionther 1990; 25:374–88 (25 ref.) (Ger)
[Energy metabolism as a clinical parameter in the differential

diagnosis of infection or septic shock] Kreymann G. **Beitr Infusionther** 1990;25:337–49 (Ger)

[Hormonal and metabolic factors in the regulation of energy metabolism in patients with liver cirrhosis] Müller MJ, et al. **Beitr Infusionther** 1990;25:350–8 (Ger)

[Measuring the metabolism of glucose in normal and hyperinsulinemic conditions] Reinauer H, et al. **Beitr Infusionther** 1990;25:399–411 (Ger)

[Diurnal rhythm of O2 uptake and the effect of intensive therapy interventions in patients with craniocerebral injuries with and without barbiturate therapy] Weyland W, et al. **Beitr Infusionther** 1990;25:241–58 (Ger)

[Metabolic changes and infusion therapy in ileus] Sachs M, et al. **Chirurg** 1989 Dec;60(12):894–900 (Eng. Abstr.) (Ger)

[Energy requirements of surgically treated, injured and infected patients] Adolph M, et al. **Infusionstherapie** 1990 Feb;17(1):5–16 (70 ref.) (Eng. Abstr.) (Ger)

[Procedure for calculating various parameters of the metabolism of amino acid mixtures] Fauth U, et al. **Infusionstherapie** 1989 Dec;16(6):253–62 (Eng. Abstr.) (Ger)

[The value of positron emission tomography (PET) in cardiologic diagnosis] Henze E. **Internist (Ber)** 1990 May; 31(5):338–40 (Ger)

[Effect of light on the eye on metabolism and hormones] Hollwich F, et al. **Klin Monatsbl Augenheilkd** 1989 Nov; 195(5):284–90 (Eng. Abstr.) (Ger)

[Study of kidney function using isolated cells] Kinne RK, et al. **Klin Wochenschr** 1990 Feb 15;68(4):199–206 (73 ref.) (Eng. Abstr.) (Ger)

[Efficient and inefficient metabolizers (editorial)] Uhl D. **Med Monatsschr Pharm** 1990 Jul;13(7):201 (Ger)

[The biology of the 3d month and its importance for infant care] Svejcar J. **Padiatr Padol** 1989;24(4):269–77 (16 ref.) (Ger)

[Current aspects of modern ergometry] Berg A, et al. **Pneumologie** 1990 Jan;44(1):2–13 (98 ref.) (Ger)

[Oxygen consumption/energy requirement of severely ill patients] Schinko H, et al. **Wien Med Wochenschr Suppl** 1987;103:51–2 (Ger)

[Cardiac positron emission tomography—current status and future perspectives] Armbrecht JJ, et al. **Z Kardiol** 1990 Mar;79(3):151–60 (78 ref.) (Eng. Abstr.) (Ger)

[Effect of the duration of reperfusion on metabolic recovery during unloading of the hypertrophic heart following induced heart arrest] Görlach G, et al. **Z Kardiol** 1990 Jan; 79(1):28–31 (Eng. Abstr.) (Ger)

[Metabolic characteristics of patients with chronic renal failure in long-term diet therapy and substitution with keto analogs of essential amino acids] Teplan V, et al. **Z Urol Nephrol** 1990 Feb;83(2):89–96 (Eng. Abstr.) (Ger)

[Effects of various oxygen concentrations on metabolic performance of in vitro perfused human placentas] Reiber W, et al. **Zentralbl Gynakol** 1990;112(4):207–14 (Eng. Abstr.) (Ger)

[Nomogram for predicting energy expenditure during treadmill walking] Yamasaki M, et al. **Ann Physiol Anthropol** 1988 Oct;7(4):207–13 (Eng. Abstr.) (Jpn)

[Changes in myocardial energy charge following cardiac arrest and subsequent resuscitation] Kori S, et al. **Masui** 1990 Apr;39(4):450–8 (Eng. Abstr.) (Jpn)

[Various aspects of lipid metabolism in the human body with special reference to the role of carnitine] Czyżewski K. **Wiad Lek** 1989 Jul 1–15;42(13–15):884–7 (24 ref.) (Eng. Abstr.) (Pol)

[The effect of limiting neuronal energy metabolism on the level of impulse activity and membrane potentials] Voronova NV, et al. **Biol Nauki** 1989;(10):49–53 (Eng. Abstr.) (Rus)

[The energy mechanism of phasic changes in the spontaneous electrical activity of the neurons during hypoxia] Lukianova LD, et al. **Biull Eksp Biol Med** 1989 Sep; 108(9):266–9 (Eng. Abstr.) (Rus)

[Energy expenditures during measured physical loading in healthy men and in patients with ischemic heart disease] Gulevskaia OM, et al. **Fiziol Cheloveka** 1989 Sep–Oct; 15(5):61–4 (Rus)

[The dynamics of the body energy characteristics during human transmeridian travels] Krivosbchekov SG, et al. **Fiziol Cheloveka** 1989 Nov–Dec;15(6):56–61 (Rus)

[Heat production as a criterion of adrenergic regulation of metabolic processes of the myocardium] Khomaziuk AI, et al. **Fiziol Zh** 1989 Sep–Oct;35(5):3–9 (Eng. Abstr.) (Rus)

[Energy metabolism during short-term thermal adaptation] Chvyrev VG, et al. **Gig Tr Prof Zabol** 1990;(2):35–8 (Rus)

[Comparison of physiological work capacity in lifting and carrying the loads] Moikin IuV, et al. **Gig Tr Prof Zabol** 1989;(8):10–3 (Eng. Abstr.) (Rus)

[Correlations of cardiorespiratory and metabolic reactions in humans with graded physical load] Buzulina VP, et al. **Kosm Biol Aviakosm Med** 1990 Jan–Feb;24(1):17–20 (Eng. Abstr.) (Rus)

[The effect of prolonged antiorthostatic hypokinesia on the blood serum activity of enzymes involved in energy and plastic metabolism] Popova IA, et al. **Kosm Biol Aviakosm Med** 1989 Aug–Sep;23(4):51–5 (Eng. Abstr.) (Rus)

[Effect of hypothermia on the metabolism and post-ischemia restoration of myocardial function] Chernikov VS, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):43–50 (Eng. Abstr.) (Rus)

[Space-time organization of cellular systems in the normal and pathologic states] Romanov IuA, et al. **Vestn Akad Med Nauk SSSR** 1990;(2):27–34 (Eng. Abstr.) (Rus)

[Energy expenditures in diseases of the digestive organs] Litnitskil VI, et al. **Voen Med Zh** 1989 Dec;(12):34–6 (Rus)

[The intensity of oxidative phosphorylation and the function of the adenylate system in the liver mitochondria of active and hibernating susliks Citellus undulatus] Brustovetskii NN, et al. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug; 25(4):448–53 (Eng. Abstr.) (Rus)

[Seasonal changes in the energy metabolism of subarctic rodents] Pastukhov IuF, et al. **Zh Evol Biokhim Fiziol** 1989 Jul–Aug;25(4):493–8 (Eng. Abstr.) (Rus)

[The action of phage 52A on energy processes in Staphylococcus aureus] Vinnikov AI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):23–6 (Eng. Abstr.) (Rus)

[Clinico-physiological and histochemical criteria in the evaluation of the effectiveness of physiotherapy of myotonia] Lobzin VS, et al. **Zh Nevropatol Psikhiatr** 1990; 90(3):35–9 (Eng. Abstr.) (Rus)

[The bioenergetic mechanisms of homeothermy] Ivanov KP. **Zh Obshch Biol** 1990 Jan–Feb;51(1):36–53 (97 ref.) (Eng. Abstr.) (Rus)

RADIATION EFFECTS

Energy linked modifications of the radiation response in a human cerebral glioma cell line. Dwarkanath BS, et al. **Int J Radiat Oncol Biol Phys** 1989 Nov;17(5):1033–40

[Informative value of various biochemical indicators in the evaluation of the effects on the body of variable magnetic and electric fields of low and industrial frequencies] Kolodub FA. **Gig Sanit** 1989 Oct;(10):87–9 (Rus)

[Status of the monoaminergic systems and enzymes of energy metabolism in rats exposed to electrostatic fields of 120 kV/m in a chronic experiment] Portnov FG, et al. **Gig Sanit** 1989 Oct;(10):89–90 (Rus)

[The interphase death of dividing cells. The relation of interphase death to cell energy requirements] Degtiareva OV, et al. **Radiobiologiia** 1990 May–Jun;30(3):407–10 (Eng. Abstr.) (Rus)

[Postradiation changes to the systems of active ion transport in the CNS. The content of adenine nucleotides as an index of the energy support for transport] Dvoretskii AI, et al. **Radiobiologiia** 1990 Jan–Feb;30(1):50–3 (Eng. Abstr.) (Rus)

[Mechanisms of the therapeutic effectiveness of helium-neon irradiation] Korochkin IM, et al. **Sov Med** 1990;(3):3–8 (Rus)

ENERGY TRANSFER

Resonance energy transfer measurements between substrate binding sites within the large (Klenow) fragment of Escherichia coli DNA polymerase I. Allen DJ, et al. **Biochemistry** 1989 Dec 12;28(25):9586–93

Energy-transfer dynamics in three light-harvesting mutants of Rhodobacter sphaeroides: a picosecond spectroscopy study. Hunter CN, et al. **Biochemistry** 1990 Apr 3; 29(13):3203–7

Inter-sulfhydryl distances in plasma fibronectin determined by fluorescence energy transfer: effect of environmental factors. Wolff CE, et al. **Biochemistry** 1990 Apr 3; 29(13):3354–61

E. Antonini Plenary lecture. A structural basis of light energy and electron transfer in biology. Huber R. **Eur J Biochem** 1990 Jan 26;187(2):283–305 (173 ref.)

Risk assessment methodologies for target fragments produced in high-energy nucleon reactions. Shinn JL, et al. **Health Phys** 1990 Jul;59(1):141–3

Energy minimized structures of carcinogen-DNA adducts: 2-acetylaminofluorene and 2-aminofluorene. Hingerty BE, et al. **J Biomol Struct Dyn** 1986 Dec;4(3):365–72

The transverse location of the retinal chromophore in the purple membrane by diffusion-enhanced energy transfer. Leder RO, et al. **J Mol Biol** 1989 Oct 20;209(4):683–701

[In vitro actin-myosin motility assay system] Toyoshima YY. **Tanpakushitsu Kakusan Koso** 1989 Sep;34(12 Suppl):1480–6 (Jpn)

PHYSIOLOGY

Nobel lecture. A structural basis of light energy and electron transfer in biology. Huber R. **Biosci Rep** 1989 Dec; 9(6):635–73 (182 ref.)

ENFLURANE

Comparative clinical study of induction and emergence time in sevoflurane and enflurane anaesthesia. Saito S, et al. **Acta Anaesthesiol Scand** 1989 Jul;33(5):389–90

Correlation between EEG and heart rate variation in deep enflurane anaesthesia. Yli-Hankala A, et al. **Acta Anaesthesiol Scand** 1990 Feb;34(2):138–43

Outpatient paediatric dental anaesthesia. A comparison of halothane, enflurane and isoflurane. Simmons M, et al. **Anaesthesia** 1989 Sep;44(9):735–8

Intestinal hemodynamics during laparotomy: effects of thoracic epidural anesthesia and dopamine in humans. Lundberg J, et al. **Anesth Analg** 1990 Jul;71(1):9–15

The nonlinear potency of sub-MAC concentrations of nitrous oxide in decreasing the anesthetic requirement of enflurane, halothane, and isoflurane in rats. Cole DJ, et al. **Anesthesiology** 1990 Jul;73(1):93–9

Multicenter study of general anesthesia. II. Results. Forrest JB, et al. **Anesthesiology** 1990 Feb;72(2):262–8

Multicenter study of general anesthesia. I. Design and patient demography. Forrest JB, et al. **Anesthesiology** 1990 Feb; 72(2):252–61

Cardiovascular effects of acute changes in extracellular ionized calcium concentration induced by citrate and CaCl2 infusions in chronically instrumented dogs, conscious and during enflurane, halothane, and isoflurane anesthesia. Hysing ES, et al. **Anesthesiology** 1990 Jan; 72(1):100–4

Failure of the agent-specific filling device [letter] Riegle EV, et al. **Anesthesiology** 1990 Aug;73(2):353–4

Comparison of enflurane and halothane in hypotensive eye surgery. Blyth AS, et al. **Ann R Coll Surg Engl** 1990 Jul; 72(4):250–2

Effects of i.v. lignocaine on airway reflexes elicited by irritation of the tracheal mucosa in humans anaesthetized with enflurane. Nishino T, et al. **Br J Anaesth** 1990 Jun; 64(6):682–7

A randomized study of changes in serum cholesterol, triglycerides, high density lipoproteins, and cortisol during cardiac surgery in patients anaesthetised with propofol-sufentanil vs enflurane-sufentanil. Cardiac Anaesthesia Research Group. Hall RI, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S76

Randomized comparison of outcome after propofol-nitrous oxide or enflurane-nitrous oxide anaesthesia in operations of long duration. Korttila K, et al. **Can J Anaesth** 1989 Nov;36(6):651–7

Local cerebral metabolism during enflurane anesthesia: identification of epileptogenic foci. Myers RR, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):153–62

Responses of vasopressin release in patients with cardiopulmonary bypass anesthetized with enflurane and morphine. Lee WJ, et al. **J Korean Med Sci** 1989 Jun; 4(2):71–6

Tropospheric lifetimes of halogenated anaesthetics. Brown AC, et al. **Nature** 1989 Oct 19;341(6243):635–7

[Neuromuscular effect of atracurium under novocaine-balanced and enflurane-nitrous oxide anesthesia] Huang YG. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Dec; 11(6):442–5 (Eng. Abstr.) (Chi)

[The levels of enflurane in collection bags for normovolemic hemodilution] Manel J, et al. **Ann Fr Anesth Reanim** 1989; 8 Suppl:R123 (Fre)

[Atrial natriuretic factor and endocrine reaction to anesthesia with enflurane] Messiant F, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R142 (Fre)

[The effects of nitrous oxide on evoked potentials recorded during enflurane and isoflurane anesthesia] Restuccia D, et al. **Cah Anesthesiol** 1990 Mar;38(2):91–4 (Eng. Abstr.) (Fre)

[Return of motor and mental functions following enflurane-nitrous oxide anesthesia of 1.3 MAC in various age groups] Nadstawek J, et al. **Anasth Intensivther Notfallmed** 1989 Oct;24(5):293–7 (Eng. Abstr.) (Ger)

[Alfentanil combination anesthesia in adeno-tonsillectomy in children—a comparison with ethrane inhalation anesthesia] Skubella U, et al. **Anasth Intensivther Notfallmed** 1989 Dec; 24(6):362–7 (Eng. Abstr.) (Ger)

[Epidural buprenorphine with nitrous oxide-oxygen-enflurane anesthesia] Satoh K, et al. **Masui** 1990 Jan;39(1):8–12 (Eng. Abstr.) (Jpn)

[Assessment of the autonomic nervous activities under nitrous oxide-enflurane anesthesia by heart rate fluctuation analysis] Shimoda O, et al. **Masui** 1990 Mar;39(3):301–7 (Eng. Abstr.) (Jpn)

[Changes in the electroretinogram during enflurane anesthesia] Yagi M, et al. **Masui** 1989 Nov;38(11):1438–43 (Eng. Abstr.) (Jpn)

ADMINISTRATION & DOSAGE

Comparison of conventional and rapid inhalational induction of anaesthesia with enflurane. Rowbottom SJ, et al. **Anaesthesia** 1990 Jan;45(1):43–5

Does cardiopulmonary bypass alter enflurane requirements for anesthesia? Hall RI, et al. **Anesthesiology** 1990 Aug; 73(2):249–55

ADVERSE EFFECTS

Atelectasis and gas exchange impairment during enflurane/nitrous oxide anaesthesia. Gunnarsson L, et al. **Acta Anaesthesiol Scand** 1989 Nov;33(8):629–37

ANALYSIS

Infrared analysis of volatile anesthetics: impact of monitor agent setting, volatile mixtures, and alcohol. Guyton DC, et al. **J Clin Monit** 1990 Jul;6(3):203–6

Estimation of minimum alveolar concentration (MAC) for halothane, enflurane and isoflurane in spontaneously

breathing guinea pigs. Seifen AB, et al. **Lab Anim Sci** 1989 Nov;39(6):579–81

ANTAGONISTS & INHIBITORS

Enflurane–induced burst discharge of hippocampal CA1 neurones is blocked by the NMDA receptor antagonist APV. MacIver MB, et al. **Br J Anaesth** 1989 Sep; 63(3):296–305

METABOLISM

Isoflurane inhibits enflurane metabolism in man. Oikkonen MP. **Anaesthesia** 1989 Sep;44(9):763–4

Serum fluoride in children anaesthetized with enflurane. Oikkonen M, et al. **Eur J Anaesthesiol** 1989 Nov;6(6):401–7

PHARMACOKINETICS

Anaesthetic concentrations of enflurane and methoxyflurane in rat brain in–vivo and in–vitro. Bazil CW, et al. **J Pharm Pharmacol** 1989 Dec;41(12):835–9

PHARMACOLOGY

Effects of halothane, enflurane and isoflurane on some energy–converting functions of isolated rat liver mitochondria. Vincenti E, et al. **Agressologie** 1989 Oct–Nov;30(9–10):517–20

Negative inotropy of halogenated anesthetics in ferret ventricular myocardium. Housmans PR. **Am J Physiol** 1990 Sep;259(3 Pt 2):H827–34

Statistical analysis of nitrous oxide and enflurane interactions. Hochman H. **Anesth Analg** 1990 Sep;71(3):305–7

Respiratory effects of expiratory flow–resistive loading in conscious and anesthetized humans. Isono S, et al. **Anesth Analg** 1990 Jun;70(6):594–9

Effect of enflurane on contractile reactivity in isolated canine mesenteric arteries and veins. Kobayashi Y, et al. **Anesth Analg** 1990 May;70(5):530–6

Different effects of halothane and enflurane on diaphragmatic contractility in vivo. Kochi T, et al. **Anesth Analg** 1990 Apr;70(4):362–8

Differences in effects of isoflurane and enflurane on splanchnic oxygenation and hepatic metabolism in the pig. Nöldge GF, et al. **Anesth Analg** 1990 Sep;71(3):258–67

Electrophysiologic assessment of the effects of enflurane, halothane, and isoflurane on properties affecting supraventricular re–entry in chronically instrumented dogs. Atlee JL 3d, et al. **Anesthesiology** 1989 Dec;71(6):941–52

Effects of diltiazem, verapamil, and inhalation anesthetics on electrophysiologic properties affecting reentrant supraventricular tachycardia in chronically instrumented dogs. Atlee JL 3d, et al. **Anesthesiology** 1990 May; 72(5):889–901

Effects of ketamine, halothane, enflurane, and isoflurane on systemic and splanchnic hemodynamics in normovolemic and hypovolemic cirrhotic rats. Debaene B, et al. **Anesthesiology** 1990 Jul;73(1):118–24

Endothelium–derived relaxing factor is not responsible for inhibition of hypoxic pulmonary vasoconstriction by inhalational anesthetics. Marshall C, et al. **Anesthesiology** 1990 Sep;73(3):441–8

Effects of volatile anesthetics on mechanical properties of rat cardiac skinned fibers. Murat I, et al. **Anesthesiology** 1990 Jul;73(1):73–81

Laryngeal and respiratory responses to tracheal irritation at different depths of enflurane anesthesia in humans. Nishino T, et al. **Anesthesiology** 1990 Jul;73(1):46–51

Effect of volatile anesthetics on synaptic transmission in the rat hippocampus. Pearce RA, et al. **Anesthesiology** 1989 Oct;71(4):591–8

Effects of enflurane on 5–hydroxytryptamine transport in synaptosomes from rat brain. Martin DC, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):187–92

Infrared spectra of phospholipid membranes: interfacial dehydration by volatile anesthetics and phase transition. Tsai YS, et al. **Biochim Biophys Acta** 1990 Feb 28; 1022(2):245–50

Effects of enflurane on visual evoked potentials in humans. Chi OZ, et al. **Br J Anaesth** 1990 Feb;64(2):163–6

Edrophonium antagonism of atracurium during enflurane anaesthesia. Gill SS, et al. **Br J Anaesth** 1990 Mar; 64(3):300–5

A model to test the potency of inhalation anaesthetics [see comments] McKenzie JD, et al. **Br J Anaesth** 1989 Oct; 63(4):489–91 Comment in: Br J Anaesth 1990 May;64(5):649.

Some effects of enflurane anaesthesia on biogenic monoamines in the brain and plasma of rats. Rosenberg PH, et al. **Br J Anaesth** 1974 Oct;46(10):708–13

Inhalation anaesthetics block accommodation of pyramidal cell discharge in the rat hippocampus. Southan AP, et al. **Br J Anaesth** 1989 Nov;63(5):581–6

Atropine–induced heart rate changes: a comparison between midazolam–fentanyl–propofol–N2O and midazolam–fentanyl–thiopentone–enflurane–N2O anaesthesia. Cross G, et al. **Can J Anaesth** 1990 May;37(4 Pt 1):416–9

Effects of sevoflurane and enflurane on contractility of canine diaphragm. Ide T, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S161

Effects of enflurane on electrical activities in the hippocampal dentate granule cells. Suzuki H, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S117

Enflurane alters compensatory hemodynamic and humoral responses to hemorrhage. Mayer N, et al. **Circ Shock** 1990 Feb;30(2):165–78

Interaction of GABA and volatile anesthetics in the nematode Caenorhabditis elegans. Boswell MV, et al. **FASEB J** 1990 May;4(8):2506–10

Differential depression of myocardial contractility by volatile anesthetics in vitro: comparison with uncouplers of excitation–contraction coupling. Lynch C 3d. **J Cardiovasc Pharmacol** 1990 Apr;15(4):655–65

Effects of halothane and enflurane on firing threshold of frog myelinated axons. Butterworth JF 4th, et al. **J Physiol (Lond)** 1989 Apr;411:493–516

The effect of halothane, enflurane and isoflurane on the circulation. Coetzee AR, et al. **S Afr Med J** 1989 Oct 21; 76(8):417–21

Role of nucleotide pyrophosphatase in enflurane–induced reduction of UDP–glucuronic acid concentration in mouse liver. Watkins JB 3d, et al. **Toxicol Appl Pharmacol** 1990 Feb;102(2):378–83

[Mechanisms of action of halogenated anesthetics on isolated cardiac muscle] Murat I. **Ann Fr Anesth Reanim** 1990; 9(4):346–61 (168 ref.) (Eng. Abstr.) **(Fre)**

[Effects of enflurane on diaphragmatic function] Ongana JM, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R143 **(Fre)**

[Effect of inhalation anesthetics on the myocardium] Hobbhahn J, et al. **Anaesthesist** 1989 Oct;38 Suppl 2:S561–96 (310 ref.) (Eng. Abstr.) **(Ger)**

[Effects of volatile anesthetics on conduction and maximum rate of rise of action potential upstroke in guinea–pig papillary muscles] Ozaki S. **Hokkaido Igaku Zasshi** 1989 Nov;64(6):705–14 (Eng. Abstr.) **(Jpn)**

[Effects of inhalation anesthetics on hepatic ATP and L/P ratio in the rat subjected to hemorrhagic shock] Kashimoto S, et al. **Masui** 1989 Nov;38(11):1406–10 (Eng. Abstr.) **(Jpn)**

POISONING

Fatal accidental enflurane intoxication. Jacob B, et al. **J Forensic Sci** 1989 Nov;34(6):1408–12

Fatal recreational inhalation of enflurane. Walker FB, et al. **J Forensic Sci** 1990 Jan;35(1):197–8

THERAPEUTIC USE

Inhalation anesthetics. Comparing nitrous oxide, isoflurane, halothane, enflurane. Joyce JL. **AORN J** 1990 Jul; 52(1):77–83 (7 ref.)

TOXICITY

Interaction of ethanol with enflurane metabolism and toxicity: role of P450IIE1. Tsutsumi R, et al. **Alcoholism** 1990 Apr;14(2):174–9

Enflurane depresses activity of the medullary inspiratory neurons in the cat. Tabatabai M, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):79–83

[Effects of halogenated anesthetic agents on the liver] Goldfarb G, et al. **Cah Anesthesiol** 1989 Nov;37(7):531–7 (58 ref.) **(Fre)**

ENGINEERING

Engineering capabilities in environmental control. Silverman L. **Arch Environ Health** 1966 Jan;12(1):120–8

Applying engineering principles to the design of cellular biology. Feldmann RJ. **Arzneimittelforschung** 1989 Aug; 39(8A):1020–2; discussion 1023

From the Centers for Disease Control. Lead poisoning in bridge demolition workers—Massachusetts. **JAMA** 1989 Nov 3;262(17):2369–70

Lead poisoning in bridge demolition workers—Massachusetts. **MMWR** 1989 Oct 13; 38(40):687–8, 693–4

[Evaluation of occupational risk for workers producing polyvinyl chloride resin pipes, profiles and fixtures] Nosko M, et al. **Probl Khig** 1989;14:103–8 (Eng. Abstr.) **(Bul)**

[Great depth pneumatic caisson and its load work involved with the efficiency of respiratory protection] Shibayama M, et al. **Ann Physiol Anthropol** 1989 Jul;8(3):155–64 (Eng. Abstr.) **(Jpn)**

[Diagnostic value of the MMPI alcoholism scales in assessing the risk of alcohol dependence among students] Sławińska JB, et al. **Psychiatr Pol** 1989 May–Jun;23(3):194–9 (Eng. Abstr.) **(Pol)**

[Methodological approach to the evaluation of health status of white–collar workers] Stolbun BM, et al. **Gig Sanit** 1990 Mar;(3):47–51 (Eng. Abstr.) **(Rus)**

[The body function of engineering and technical workers in modern metallurgic production] Altynbekov BE, et al. **Gig Tr Prof Zabol** 1989;(10):14–6 (Eng. Abstr.) **(Rus)**

[Study of the effect of gymnastics on health indicators and work capacity of workers in an experimental shop of new anti–corrosion devices] Ana'nev NI, et al. **Gig Tr Prof Zabol** 1989;(8):44–6 (Eng. Abstr.) **(Rus)**

[Determining the leading occupational and non–occupational factors in the planning of priority measures for reducing the incidence of diseases with temporary disability] Lebedeva NV, et al. **Gig Tr Prof Zabol** 1990;(2):15–7 (Eng. Abstr.) **(Rus)**

[The role of disorders of components of the RASC system (regulation of the aggregation system of coagulation) in the pathogenesis of microangiopathies in vibration disease] Pakhomova AM, et al. **Gig Tr Prof Zabol** 1989;(7):10–3 (Eng. Abstr.) **(Rus)**

[The sensitizing action of an industrial aerosol on the body of gas cutters] Budanova LF, et al. **Vrach Delo** 1990 May; (5):99–101 (Eng. Abstr.) **(Rus)**

[Psychosomatic correlations in the structure of borderline neurologic and mental disorders] Vertogradova OP, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):70–5 (Eng. Abstr.) **(Rus)**

EDUCATION

The state of U.S. science and engineering. Bloch E. **Acad Med** 1990 May;65(5):312–3

[Socio–hygienic evaluation of time expenditure of Soviet and foreign students] Gorlova OE. **Gig Sanit** 1990 May; (5):69–71 **(Rus)**

INSTRUMENTATION

[An evaluation of the vibration hazard of the hand–operated machines used in automobile manufacture] Karkhanin NP, et al. **Gig Tr Prof Zabol** 1989;(12):20–2 (Eng. Abstr.) **(Rus)**

[Present–day metal–cutting tools and working conditions] Kondratiuk VP. **Gig Tr Prof Zabol** 1990;(1):24–7 (Eng. Abstr.) **(Rus)**

[Problem of measuring and hygienic evaluation of local impulse vibration] Zhuravlev AB, et al. **Gig Tr Prof Zabol** 1989;(7):47–9 **(Rus)**

[Automated line for the manufacture of sterilizer doors] Poliankil VV, et al. **Med Tekh** 1990 Mar–Apr;(2):23–4 (Eng. Abstr.) **(Rus)**

MANPOWER

Indian science. Talent down the drain [news] Jayaraman KS. **Nature** 1990 Jun 7;345(6275):465

STANDARDS

[Analysis of the levels of toxic substances in the air of photopolymer plate factories] Zhiznevskil VM, et al. **Gig Sanit** 1989 Jul;(7):27–9 **(Rus)**

[Medico–social aspects of the evaluation of physical work capacity of industrial workers] Iakovlev IuG, et al. **Gig Tr Prof Zabol** 1990;(1):31–3 (Eng. Abstr.) **(Rus)**

[Interdepartmental studies of employees' health status and their working conditions] Retnev VM, et al. **Sov Zdravookhr** 1990;(3):63–4 **(Rus)**

ENGINEERING, HOSPITAL see **MAINTENANCE AND ENGINEERING, HOSPITAL**

ENGINEERING PSYCHOLOGY see **HUMAN ENGINEERING**

ENHANCEMENT OF GRAFTS, IMMUNOLOGIC see **GRAFT ENHANCEMENT, IMMUNOLOGIC**

ENHANCER ELEMENTS (GENETICS)

Multipartite genetic control elements: communication by DNA loop. **Adhya S. Annu Rev Genet** 1989;23:227–50 (76 ref.)

The human cytomegalovirus immediate early enhancer–promoter is responsive to activation by the adenovirus–5 13S E1A gene. Olive DM, et al. **Arch Virol** 1990;112(1–2):67–80

Transcriptional activation by TGF beta 1 mediated by the dyad symmetry element (DSE) and the TPA responsive element (TRE). de Groot RP, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):1074–81

Purification and DNA–binding properties of human papillomavirus type 16 E6 protein expressed in Escherichia coli. Imai Y, et al. **Biochem Biophys Res Commun** 1989 Nov 15;164(3):1402–10

Insulin enhancer binding protein has helix–loop–helix structure. Shibasaki Y, et al. **Biochem Biophys Res Commun** 1990 Jul 16;170(1):314–21

A tissue–specific nuclear factor binds to multiple sites in the human insulin–gene enhancer [published erratum appears in Biochem J 1990 Feb 1;265(3):932] Boam DS, et al. **Biochem J** 1989 Nov 15;264(1):233–9

Characterization of the human immunodeficiency virus type 1 enhancer–binding proteins from the human T–cell line Jurkat. Korner M, et al. **Biochem J** 1990 Jan 15; 265(2):547–54

Enhancer function in viral and cellular gene regulation. Marriott SJ, et al. **Biochim Biophys Acta** 1989 Dec 17; 989(2):97–110 (251 ref.)

Dissecting the complexity of the nervous system by enhancer detection. Bellen HJ, et al. **Bioessays** 1990 May; 12(5):199–204 (34 ref.)

Luciferase reporter gene vectors for analysis of promoters and enhancers. Nordeen SK. **Biotechniques** 1988 May; 6(5):454–8

A new hereditary persistence of fetal hemoglobin deletion has the breakpoint within the 3'beta–globin gene enhancer. Camaschella C, et al. **Blood** 1990 Feb 15;75(4):1000–5

Development of a transgenic mouse system for the analysis of stages in liver carcinogenesis using tissue–specific expression of SV40 large T–antigen controlled by regulatory elements of the human alpha–1–antitrypsin gene.

Sepulveda AR, et al. **Cancer Res** 1989 Nov 1; 49(21):6108–17

A novel octamer binding transcription factor is differentially expressed in mouse embryonic cells. Okamoto K, et al. **Cell** 1990 Feb 9;60(3):461–72

Role of eukaryotic-type functional domains found in the prokaryotic enhancer receptor factor sigma 54. Sasse-Dwight S, et al. **Cell** 1990 Sep 7;62(5):945–54

HIV TAR: an RNA enhancer? Sharp PA, et al. **Cell** 1989 Oct 20;59(2):229–30 (18 ref.)

The human estrogen receptor has two independent nonacidic transcriptional activation functions. Tora L, et al. **Cell** 1989 Nov 3;59(3):477–87

Construction of mammalian cell lines with indicator genes driven by regulated promoters. Meinkoth J, et al. **Cba Found Symp** 1990;150:47–51; discussion 51–6

A yeast ribosomal DNA-binding protein that binds to the rDNA enhancer and also close to the site of Pol I transcription initiation is not important for enhancer functioning. Kulkens T, et al. **Curr Genet** 1989 Dec; 16(5–6):351–9

Repetitive DNA sequences linked to the sea urchin spec genes contain transcriptional enhancer-like elements. Gan L, et al. **Dev Biol** 1990 May;139(1):186–96

Neural enhancer-like elements as specific cell markers in Drosophila. Ghysen A, et al. **Development** 1989 Jan; 105(1):35–52

P-element-mediated enhancer detection applied to the study of oogenesis in Drosophila. Grossniklaus U, et al. **Development** 1989 Oct;107(2):189–200

DNA replication origin and transcriptional enhancer in c-myc gene share the c-myc protein binding sequences. Ariga H, et al. **EMBO J** 1989 Dec 20;8(13):4273–9

The spatial and temporal expression pattern of sevenless is exclusively controlled by gene-internal elements. Basler K, et al. **EMBO J** 1989 Aug;8(8):2381–6

Tissue-specific expression from CaMV 35S enhancer subdomains in early stages of plant development. Benfey PN, et al. **EMBO J** 1990 Jun;9(6):1677–84

Combinatorial and synergistic properties of CaMV 35S enhancer subdomains. Benfey PN, et al. **EMBO J** 1990 Jun;9(6):1685–96

The ocs-element is a component of the promoters of several T-DNA and plant viral genes. Bouchez D, et al. **EMBO J** 1989 Dec 20;8(13):4197–204

Protein recognition sites in polyomavirus enhancer: formation of a novel site for NF-1 factor in an enhancer mutant and characterization of a site in the enhancer D domain. Caruso M, et al. **EMBO J** 1990 Mar;9(3):947–55

Tissue-specific and hormonal regulation of angiotensinogen minigenes in transgenic mice. Clouston WM, et al. **EMBO J** 1989 Nov;8(11):3337–43

Human herpes virus-6 increases HIV-1 expression in co-infected T cells via nuclear factors binding to the HIV-1 enhancer. Ensoli B, et al. **EMBO J** 1989 Oct; 8(10):3019–27

Activity and interleukin 1 responsiveness of SV40 enhancer motifs in a rodent immature T cell line. Espel E, et al. **EMBO J** 1990 Mar;9(3):929–37

Tissue-specific transcriptional enhancers may act in trans on the gene located in the homologous chromosome: the molecular basis of transvection in Drosophila. Geyer PK, et al. **EMBO J** 1990 Jul;9(7):2247–56

TNF stimulates expression of mouse MHC class I genes by inducing an NF kappa B-like enhancer binding activity which displaces constitutive factors. Israël A, et al. **EMBO J** 1989 Dec 1;8(12):3793–800

The SV40 TC-II(kappa B) and the related H-2Kb enhansons exhibit different cell type specific and inducible proto-enhancer activities, but the SV40 core sequence and the AP-2 binding site have no enhanson properties. Kanno M, et al. **EMBO J** 1989 Dec 20;8(13):4205–14

Suppression of MHC class I gene expression by N-myc through enhancer inactivation. Lenardo M, et al. **EMBO J** 1989 Nov;8(11):3351–5

The SV40 TC-II(kappa B) enhanson binds ubiquitous and cell type specifically inducible nuclear proteins from lymphoid and non-lymphoid cell lines. Macchi M, et al. **EMBO J** 1989 Dec 20;8(13):4215–27

Leucine zipper structure of the protein CRE-BP1 binding to the cyclic AMP response element in brain. Maekawa T, et al. **EMBO J** 1989 Jul;8(7):2023–8

Cooperative binding of estrogen receptor to imperfect estrogen-responsive DNA elements correlates with their synergistic hormone-dependent enhancer activity. Martinez E, et al. **EMBO J** 1989 Dec 1;8(12):3781–91

The immunoglobulin kappa locus contains a second, stronger B-cell-specific enhancer which is located downstream of the constant region. Meyer KB, et al. **EMBO J** 1989 Jul; 8(7):1959–64

Tax1 induction of the HTLV-I 21 bp enhancer requires cooperation between two cellular DNA-binding proteins. Montagne J, et al. **EMBO J** 1990 Mar;9(3):957–64

The role of ACE3 in Drosophila chorion gene amplification. Orr-Weaver TL, et al. **EMBO J** 1989 Dec 20;8(13):4153–62

Cyclosporin A suppresses the expression of the interleukin 2 gene by inhibiting the binding of lymphocyte-specific factors to the IL-2 enhancer. Randak C, et al. **EMBO J** 1990 Aug;9(8):2529–36

NF-kappa B activation of the cytomegalovirus enhancer is mediated by a viral transactivator and by T cell stimulation. Sambucetti LC, et al. **EMBO J** 1989 Dec 20;8(13):4251–8

A single DNA-binding transcription factor is sufficient for activation from a distant enhancer and/or from a promoter position. Schatt MD, et al. **EMBO J** 1990 Feb;9(2):481–7

Action at a distance in Mu DNA transposition: an enhancer-like element is the site of action of supercoiling relief activity by integration host factor (IHF). Surette MG, et al. **EMBO J** 1989 Nov;8(11):3483–9

Tissue-specific control elements of the Thy-1 gene. Vidal M, et al. **EMBO J** 1990 Mar;9(3):833–40

A synthetic homeodomain binding site acts as a cell type specific, promoter specific enhancer in Drosophila embryos. Vincent JP, et al. **EMBO J** 1990 Aug;9(8):2573–8

Expression of the acetylcholine receptor delta-subunit gene in differentiating chick muscle cells is activated by an element that contains two 16 bp copies of a segment of the alpha-subunit enhancer. Wang XM, et al. **EMBO J** 1990 Mar;9(3):783–90

Multiple cDNA clones encoding nuclear proteins that bind to the tax-dependent enhancer of HTLV-1: all contain a leucine zipper structure and basic amino acid domain. Yoshimura T, et al. **EMBO J** 1990 Aug;9(8):2537–42

Binding of nuclear proteins to the enhancer elements of the rat apolipoprotein A-I gene. Dai PH, et al. **Eur J Biochem** 1990 Jun 20;190(2):305–10

Determination of the DNA conformation of the simian virus 40 (SV40) enhancer in SV40 minichromosomes. Martínez-Balbás A, et al. **Eur J Biochem** 1990 Mar 10; 188(2):269–73

The activity of the mouse renin promoter in cells that do not normally produce renin is dependent upon the presence of a functional enhancer. Ekker M, et al. **FEBS Lett** 1989 Sep 25;255(2):241–7

Nucleotide sequence of a transcriptional enhancer located 2.2 kb 3' of a human placental lactogen-encoding gene. White JW, et al. **Gene** 1989 Dec 14;84(2):521–2

Inhibition of in vitro transcription by specific double-stranded oligodeoxyribonucleotides. Wu H, et al. **Gene** 1990 May 14;89(2):203–9

TFE3: a helix-loop-helix protein that activates transcription through the immunoglobulin enhancer muE3 motif. Beckmann H, et al. **Genes Dev** 1990 Feb;4(2):167–79

P-element-mediated enhancer detection: a versatile method to study development in Drosophila. Bellen HJ, et al. **Genes Dev** 1989 Sep;3(9):1288–300

Myogenin resides in the nucleus and acquires high affinity for a conserved enhancer element on heterodimerization. Brennan TJ, et al. **Genes Dev** 1990 Apr;4(4):582–95

The role of specific enhancer-promoter interactions in the Drosophila Adh promoter switch. Corbin V, et al. **Genes Dev** 1989 Dec;3(12B):2191–20

A transcription factor, TFIS, interacts with both the promoter and enhancer of the Xenopus rRNA genes. Dunaway M. **Genes Dev** 1989 Nov;3(11):1768–78

CCAAT/enhancer binding protein activates the promoter of the serum albumin gene in cultured hepatoma cells. Friedman AD, et al. **Genes Dev** 1989 Sep;3(9):1314–22

The beta-globin stage selector element factor is erythroid-specific promoter/enhancer binding protein NF-E4. Gallarda JL, et al. **Genes Dev** 1989 Dec; 3(12A):1845–59

A novel enhancer in the immunoglobulin lambda locus is duplicated and functionally independent of NF kappa B. Hagman J, et al. **Genes Dev** 1990 Jun;4(6):978–92

NBP, a protein that specifically binds an enhancer of immunoglobulin gene rearrangement: purification and characterization. Li M, et al. **Genes Dev** 1989 Nov; 3(11):1801–13

Ovarian follicle cell enhancers from the Drosophila yolk protein genes: different segments of one enhancer have different cell-type specificities that interact to give normal expression. Logan SK, et al. **Genes Dev** 1990 Apr; 4(4):613–23

DNA regions that regulate the ovarian transcriptional specificity of Drosophila yolk protein genes. Logan SK, et al. **Genes Dev** 1989 Sep;3(9):1453–61

Is CCAAT/enhancer-binding protein a central regulator of energy metabolism? McKnight SL, et al. **Genes Dev** 1989 Dec;3(12B):2021–4 (24 ref.)

The need for enhancers in gene expression first appears during mouse development with formation of the zygotic nucleus. Martínez-Salas E, et al. **Genes Dev** 1989 Oct; 3(10):1493–506

Pan: a transcriptional regulator that binds chymotrypsin, insulin, and AP-4 enhancer motifs. Nelson C, et al. **Genes Dev** 1990 Jun;4(6):1035–43

Tandem AP-1-binding sites within the human beta-globin dominant control region function as an inducible enhancer in erythroid cells. Ney PA, et al. **Genes Dev** 1990 Jun; 4(6):993–1006

Activation of an intron enhancer within the keratin 18 gene by expression of c-fos and c-jun in undifferentiated F9 embryonal carcinoma cells. Oshima RG, et al. **Genes Dev** 1990 May;4(5):835–48

The Xenopus ribosomal gene enhancers bind an essential polymerase I transcription factor, xUBF. Pikaard CS, et al. **Genes Dev** 1989 Nov;3(11):1779–88

General repression of enhanson activity by the adenovirus-2 E1A proteins. Rochette-Egly C, et al. **Genes Dev** 1990 Jan;4(1):137–50

A developmental-specific factor binds to suppressor sites flanking the immunoglobulin heavy-chain enhancer. Scheuermann RH, et al. **Genes Dev** 1989 Aug;3(8):1255–66

Mutation of the core or adjacent LVb elements of the Moloney murine leukemia virus enhancer alters disease specificity. Speck NA, et al. **Genes Dev** 1990 Feb; 4(2):233–42

Region-specific enhancers near two mammalian homeo box genes define adjacent rostrocaudal domains in the central nervous system. Tuggle CK, et al. **Genes Dev** 1990 Feb; 4(2):180–9

Differential utilization of the SV40 enhancer and early promoter in various human lung carcinoma cell lines. Weng YC, et al. **Int J Cancer** 1990 May 15;45(5):911–5

The Agrobacterium tumefaciens virC1 gene product binds to overdrive, a T-DNA transfer enhancer. Toro N, et al. **J Bacteriol** 1989 Dec;171(12):6845–9

Immunoglobulin kappa gene expression after stable integration. I. Role of the intronic MAR and enhancer in plasmacytoma cells. Blasquez VC, et al. **J Biol Chem** 1989 Dec 15;264(35):21183–9

Functional analysis of cis-acting DNA sequences controlling transcription of the human type I collagen genes. Boast S, et al. **J Biol Chem** 1990 Aug 5;265(22):13351–6

A nuclear factor that enhances binding of thyroid hormone receptors to thyroid hormone response elements. Burnside J, et al. **J Biol Chem** 1990 Feb 15;265(5):2500–4

2,3,7,8-Tetrachlorodibenzo-p-dioxin-inducible, Ah receptor-mediated bending of enhancer DNA. Elferink CJ, et al. **J Biol Chem** 1990 Apr 5;265(10):5718–21

Isolation and characterization of a protein fraction that binds to enhancer core sequences in intracisternal A-particle long terminal repeats. Falzon M, et al. **J Biol Chem** 1989 Dec 25;264(36):21915–22

A transcriptional enhancer essential for the expression of the rat cholecystokinin gene contains a sequence identical to the -296 element of the human c-fos gene. Haun RS, et al. **J Biol Chem** 1990 Sep 15;265(26):15455–63

Regulation of alpha-tropomyosin and N5 genes by a shared enhancer. Modular structure and hierarchical organization. Herrera VL, et al. **J Biol Chem** 1990 Jun 5;265(16):9555–62

Identification and purification of a yeast transcriptional trans-activator. The yeast homolog of the Rous sarcoma virus internal enhancer binding factor. Karnitz L, et al. **J Biol Chem** 1990 Apr 15;265(11):6131–8

A pancreatic islet cell-specific enhancer-like element in the glucagon gene contains two domains binding distinct cellular proteins. Knepel W, et al. **J Biol Chem** 1990 May 25;265(15):8725–35

The chymotrypsin enhancer core. Specific factor binding and biological activity. Meister A, et al. **J Biol Chem** 1989 Dec 5;264(34):20744–51

Binding of the c-myb proto-oncogene product to the simian virus 40 enhancer stimulates transcription. Nakagoshi H, et al. **J Biol Chem** 1990 Feb 25;265(6):3479–83

Cell line-dependent response of the enhancer element of simian virus 40 to transactivator p40tax encoded by human T-cell leukemia virus type I. Nakamura M, et al. **J Biol Chem** 1989 Dec 5;264(34):20189–92

The structure and regulation of expression of the murine fast skeletal troponin C gene. Identification of a developmentally regulated, muscle-specific transcriptional enhancer. Parmacek MS, et al. **J Biol Chem** 1990 Sep 15; 265(26):15970–6

Identification of nucleotides responsible for enhancer activity of sterol regulatory element in low density lipoprotein receptor gene. Smith JR, et al. **J Biol Chem** 1990 Feb 5; 265(4):2306–10

Novel regulatory enhancer in the nuclear gene of the human mitochondrial ATP synthase beta-subunit. Tomura H, et al. **J Biol Chem** 1990 Apr 25;265(12):6525–7

Human placental lactogen transcriptional enhancer. Tissue specificity and binding with specific proteins. Walker WH, et al. **J Biol Chem** 1990 Aug 5;265(22):12940–8

Immunoglobulin kappa gene expression after stable integration. II. Role of the intronic MAR and enhancer in transgenic mice. Xu M, et al. **J Biol Chem** 1989 Dec 15;264(35):21190–5

Regulation of transcription of the human T cell antigen receptor delta chain gene. A T lineage-specific enhancer element is located in the J delta 3-C delta intron. Bories JC, et al. **J Exp Med** 1990 Jan 1;171(1):75–83

Identification of a functional NF-kappa B binding site in the murine T cell receptor beta 2 locus. Jamieson C, et al. **J Exp Med** 1989 Nov 1;170(5):1737–43

Kappa B-type enhancers are involved in lipopolysaccharide-mediated transcriptional activation of the tumor necrosis factor alpha gene in primary macrophages. Shakhov AN, et al. **J Exp Med** 1990 Jan 1;171(1):35–47

Cell type-specific induction of the major immediate early enhancer of human cytomegalovirus by cyclic AMP [published erratum appears in J Gen Virol 1990 Jul;71(Pt 7):1627] Stamminger T, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):105–13

A new transcription element in the JC virus enhancer. Tamura T, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1829–33

Identification of enhancer-like elements in human IFN-gamma genomic DNA. Ciccarone VC, et al. **J Immunol** 1990 Jan 15;144(2):725–30

Regulation of the IL-2 receptor alpha-gene. Interaction of a kappa B binding protein with cell-specific transcription factors. Freimuth WW, et al. **J Immunol** 1989 Nov 1; 143(9):3064–8

Adenovirus E1A products activate the Ig k-chain enhancer

in fibroblasts. A possible involvement of the NF-kB binding site. Shurman L, et al. **J Immunol** 1989 Dec 1; 143(11):3806–12

Trans-regulation and differential cell specificity of human papillomavirus types 16, 18, and 11 cis-acting elements. Marshall T, et al. **J Med Virol** 1989 Oct;29(2):115–26

Replication enhancer-independent mutation increases the co-operativity with which an initiator protein binds its origin. Greenstein D, et al. **J Mol Biol** 1990 Jan 5; 211(1):91–101

P-element-mediated enhancer detection allows rapid identification of developmentally regulated genes and cell specific markers in Drosophila. Bellen HJ, et al. **J Physiol (Paris)** 1990;84(1):33–41

Insulin enhances glucocorticoid induction of gene expression in a sequence specific manner. Tsawdaroglou NH, et al. **J Steroid Biochem** 1989;34(1–6):333–7

DNA bending induced by specific interaction of decamer binding proteins with immunoglobulin gene control sequences. Brack C, et al. **J Ultrastruct Mol Struct Res** 1988 Nov–Dec;101(2–3):145–58

The palindromic series I repeats in the simian cytomegalovirus major immediate-early promoter behave as both strong basal enhancers and cyclic AMP response elements. Chang YN, et al. **J Virol** 1990 Jan;64(1):264–77

Interaction of enhancer-binding protein EBP1 (NF-kappa B) with the human immunodeficiency virus type 1 enhancer. Clark L, et al. **J Virol** 1990 Mar;64(3):1335–44

An enhancer within the divergent promoter of Epstein-Barr virus responds synergistically to the R and Z transactivators. Cox MA, et al. **J Virol** 1990 Jan; 64(1):313–21

Cell-type-specific control elements of the lymphotropic papovavirus enhancer. Erselius JR, et al. **J Virol** 1990 Apr; 64(4):1657–66

A single element within the hepatitis B virus enhancer binds multiple proteins and responds to multiple stimuli. Faktor O, et al. **J Virol** 1990 Apr;64(4):1861–3

Alignment of U3 region sequences of mammalian type C viruses: identification of highly conserved motifs and implications for enhancer design. Golemis EA, et al. **J Virol** 1990 Feb;64(2):534–42

The Epstein-Barr virus (EBV) ORI1yt enhancer is not B-cell specific and does not respond synergistically to the EBV transcription factors R and Z. Gruffat H, et al. **J Virol** 1990 Jun;64(6):2810–8

The state of cellular differentiation determines the activity of the adenovirus E1A enhancer element: evidence for negative regulation of enhancer function. Herbst RS, et al. **J Virol** 1990 Jan;64(1):161–72

Purification of a mouse nuclear factor that binds to both the A and B cores of the polyomavirus enhancer. Kamachi Y, et al. **J Virol** 1990 Oct;64(10):4808–19

The zta transactivator involved in induction of lytic cycle gene expression in Epstein-Barr virus-infected lymphocytes binds to both AP-1 and ZRE sites in target promoter and enhancer regions. Lieberman PM, et al. **J Virol** 1990 Mar;64(3):1143–55

Relative importance of elements within the SL3-3 virus enhancer for T-cell specificity. LoSardo JE, et al. **J Virol** 1990 Apr;64(4):1756–63

Enhancer functions in U3 of Akv virus: a role for cooperativity of a tandem repeat unit and its flanking DNA sequences. Lovmand S, et al. **J Virol** 1990 Jul;64(7):3185–91

Polyomavirus genome and polyomavirus enhancer-driven gene expression during myogenesis. Maione R, et al. **J Virol** 1989 Nov;63(11):4890–7

Interactions between nuclear factors and the hepatitis B virus enhancer. Patel NU, et al. **J Virol** 1989 Dec; 63(12):5293–301

Genetic analysis of the enhancer requirements for polyomavirus DNA replication in mice. Rochford R, et al. **J Virol** 1990 Feb;64(2):476–85

Inducible nuclear factor binding to the kappa B elements of the human immunodeficiency virus enhancer in T cells can be blocked by cyclosporin A in a signal-dependent manner. Schmidt A, et al. **J Virol** 1990 Aug;64(8):4037–41

Analysis of E1A-mediated growth regulation functions: binding of the 300-kilodalton cellular product correlates with E1A enhancer repression function and DNA synthesis-inducing activity. Stein RW, et al. **J Virol** 1990 Sep;64(9):4421–7

A 69-base-pair monkey DNA sequence enhances simian virus 40 replication and transcription through multiple motifs. Szymanski P, et al. **J Virol** 1990 Mar;64(3):1360–5

Transcriptional activation of the adenine phosphoribosyltransferase promoter by an upstream butyrate-induced Moloney murine sarcoma virus enhancer-promoter element. Tang DC, et al. **J Virol** 1990 Jun;64(6):2907–11

A new enhancer element, ENII, identified in the X gene of hepatitis B virus. Wang Y, et al. **J Virol** 1990 Aug; 64(8):3977–81

The genome of hepatitis B virus contains a second enhancer: cooperation of two elements within this enhancer is required for its function. Yuh CH, et al. **J Virol** 1990 Sep; 64(9):4281–7

Theoretical mechanisms for synthesis of carcinogen-induced embryonic proteins: XXIII. Enhancer theory. Hancock RL. **Med Hypotheses** 1989 Nov;30(3):187–94 (39 ref.)

Assembly of enhancers, promoters, and splice signals to control expression of transferred genes. Kriegler M. **Methods Enzymol** 1990;185:512–27

Enhancer and promoter elements from simian virus 40 and polyomavirus can substitute for an upstream activation sequence in Saccharomyces cerevisiae. Axelrod NJ, et al. **Mol Cell Biol** 1990 Mar;10(3):947–57

Conserved enhancer and silencer elements responsible for differential Adh transcription in Drosophila cell lines. Ayer S, et al. **Mol Cell Biol** 1990 Jul;10(7):3512–23

A large protein containing zinc finger domains binds to related sequence elements in the enhancers of the class I major histocompatibility complex and kappa immunoglobulin genes. Baldwin AS Jr, et al. **Mol Cell Biol** 1990 Apr;10(4):1406–14

E1A-induced enhancer activity of the poly(dG-dT).poly(dA-dC) element (GT element) and interactions with a GT-specific nuclear factor. Berg DT, et al. **Mol Cell Biol** 1989 Nov;9(11):5248–53

Nuclear factor EF-1A binds to the adenovirus E1A core enhancer element and to other transcriptional control regions. Bruder JT, et al. **Mol Cell Biol** 1989 Nov; 9(11):5143–53

Octamer-binding proteins in diverse hemopoietic cells. Cockerill PN, et al. **Mol Cell Biol** 1990 Mar;10(3):1293–6

Hierarchic and cooperative binding of the rat liver nuclear protein C/EBP at the hepatitis B virus enhancer. Dikstein R, et al. **Mol Cell Biol** 1990 Aug;10(8):4427–30

Functional organization of the hepatitis B virus enhancer. Dikstein R, et al. **Mol Cell Biol** 1990 Jul;10(7):3682–9

Enhancer and silencerlike sites within the transcribed portion of a Ty2 transposable element of Saccharomyces cerevisiae. Farabaugh P, et al. **Mol Cell Biol** 1989 Nov;9(11):4824–34

Sequences downstream of the transcription initiation site modulate the activity of the murine dihydrofolate reductase promoter. Farnham PJ, et al. **Mol Cell Biol** 1990 Apr; 10(4):1390–8

Serum stimulation of the c-fos enhancer induces reversible changes in c-fos chromatin structure. Feng JL, et al. **Mol Cell Biol** 1990 Mar;10(3):1126–33

Binding of a liver-specific factor to the human albumin gene promoter and enhancer. Frain M, et al. **Mol Cell Biol** 1990 Mar;10(3):991–9

A new myocyte-specific enhancer-binding factor that recognizes a conserved element associated with multiple muscle-specific genes. Gossett LA, et al. **Mol Cell Biol** 1989 Nov;9(11):5022–33

Functional cooperation of lens-specific and nonspecific elements in the delta 1-crystallin enhancer. Goto K, et al. **Mol Cell Biol** 1990 Mar;10(3):958–64

Identification and functional characterization of the human T-cell receptor beta gene transcriptional enhancer: common nuclear proteins interact with the transcriptional regulatory elements of the T-cell receptor alpha and beta genes. Gottschalk LR, et al. **Mol Cell Biol** 1990 Oct; 10(10):5486–95

A transcription factor interacting with the class I gene enhancer is inactive in tumorigenic cell lines which suppress major histocompatibility complex class I genes. Henseling U, et al. **Mol Cell Biol** 1990 Aug;10(8):4100–9

The mouse albumin enhancer contains a negative regulatory element that interacts with a novel DNA-binding protein. Herbst RS, et al. **Mol Cell Biol** 1990 Aug;10(8):3896–905

Regulation of the human T-cell receptor alpha gene enhancer: multiple ubiquitous and T-cell-specific nuclear proteins interact with four hypomethylated enhancer elements. Ho IC, et al. **Mol Cell Biol** 1990 Sep;10(9):4720–7

Developmental regulation of specific protein interactions with an enhancerlike binding site far upstream from the avian very-low-density apolipoprotein II gene. Hoodless PA, et al. **Mol Cell Biol** 1990 Jan;10(1):154–64

Interaction of a liver-specific factor with an enhancer 4.8 kilobases upstream of the phosphoenolpyruvate carboxykinase gene. Ip YT, et al. **Mol Cell Biol** 1990 Jul; 10(7):3770–81

Unusual enhancer function in yeast rRNA transcription. Johnson SP, et al. **Mol Cell Biol** 1989 Nov;9(11):4986–93

Synergism between distinct enhanson domains in viral induction of the human beta interferon gene. Leblanc JF, et al. **Mol Cell Biol** 1990 Aug;10(8):3987–93

Involvement of a second lymphoid-specific enhancer element in the regulation of immunoglobulin heavy-chain gene expression. Libermann TA, et al. **Mol Cell Biol** 1990 Jun; 10(6):3155–62

Delineation of an enhancerlike positive regulatory element in the interleukin-2 receptor alpha-chain gene. Lin BB, et al. **Mol Cell Biol** 1990 Feb;10(2):850–3

Promoter and 11-kilobase upstream enhancer elements responsible for hepatoma cell-specific expression of the rat ornithine transcarbamylase gene. Murakami T, et al. **Mol Cell Biol** 1990 Mar;10(3):1180–91

Identification of an octamer-binding site in the human kappa light-chain enhancer. Nelms K, et al. **Mol Cell Biol** 1990 Jul;10(7):3843–6

Complex regulation of the immunoglobulin mu heavy-chain gene enhancer: microB, a new determinant of enhancer function. Nelsen B, et al. **Mol Cell Biol** 1990 Jun; 10(6):3145–54

Chromatin structures of the rat tyrosine aminotransferase gene relate to the function of its cis-acting elements. Nitsch D, et al. **Mol Cell Biol** 1990 Jul;10(7):3334–42

The Xenopus ribosomal DNA 60- and 81-base-pair repeats are position-dependent enhancers that function at the establishment of the preinitiation complex: analysis in vivo and in an enhancer-responsive in vitro system. Pape LK, et al. **Mol Cell Biol** 1989 Nov;9(11):5093–104

Roles of fetal G gamma-globin promoter elements and the adult beta-globin 3' enhancer in the stage-specific expression of globin genes. Perez-Stable C, et al. **Mol Cell Biol** 1990 Mar;10(3):1116–25

Enhancers for RNA polymerase I in mouse ribosomal DNA. Pikaard CS, et al. **Mol Cell Biol** 1990 Sep;10(9):4816–25

Immunoglobulin heavy-chain enhancer is required to maintain transfected gamma 2A gene expression in a pre-B-cell line. Porton B, et al. **Mol Cell Biol** 1990 Mar; 10(3):1076–83

Multiple components are required for sequence recognition of the AP1 site in the gibbon ape leukemia virus enhancer. Quinn JP, et al. **Mol Cell Biol** 1989 Nov;9(11):4713–21

A multiple cytokine- and second messenger-responsive element in the enhancer of the human interleukin-6 gene: similarities with c-fos gene regulation. Ray A, et al. **Mol Cell Biol** 1989 Dec;9(12):5537–47

Induced expression from the Moloney murine leukemia virus long terminal repeat during differentiation of human myeloid cells is mediated through its transcriptional enhancer. Reisman D, et al. **Mol Cell Biol** 1989 Aug; 9(8):3571–5

Minimal subenhancer requirements for high-level polyomavirus DNA replication: a cell-specific synergy of PEA3 and PEA1 sites. Rochford R, et al. **Mol Cell Biol** 1990 Sep;10(9):4996–5001

Octamer and SPH motifs in the U1 enhancer cooperate to activate U1 RNA gene expression. Roebuck KA, et al. **Mol Cell Biol** 1990 Jan;10(1):341–52

The permissive role of glucocorticoids on interleukin-1 stimulation of angiotensinogen gene transcription is mediated by an interaction between inducible enhancers. Ron D, et al. **Mol Cell Biol** 1990 Aug;10(8):4389–95

The cytomegalovirus enhancer: a pan-active control element in transgenic mice. Schmidt EV, et al. **Mol Cell Biol** 1990 Aug;10(8):4406–11

The immunoglobulin heavy-chain enhancer functions as the promoter for I mu sterile transcription. Su LK, et al. **Mol Cell Biol** 1990 Jun;10(6):2619–24

Functional analysis of the murine T-cell receptor beta enhancer and characteristics of its DNA-binding proteins. Takeda J, et al. **Mol Cell Biol** 1990 Oct;10(10):5027–35

Identification of a pancreatic beta-cell insulin gene transcription factor that binds to and appears to activate cell-type-specific expression: its possible relationship to other cellular factors that bind to a common insulin gene sequence. Whelan J, et al. **Mol Cell Biol** 1990 Apr; 10(4):1564–72

Purification and characterization of a novel factor which stimulates rat ribosomal gene transcription in vitro by interacting with enhancer and core promoter elements. Zhang J, et al. **Mol Cell Biol** 1990 Oct;10(10):5177–86

Transcriptional control of the invariant chain gene involves promoter and enhancer elements common to and distinct from major histocompatibility complex class II genes. Zhu L, et al. **Mol Cell Biol** 1990 Aug;10(8):3906–16

Evolutionary conservation of splice sites in sterile C mu transcripts and of immunoglobulin heavy chain (IgH) enhancer region sequences. Mage RG, et al. **Mol Immunol** 1989 Oct;26(10):1007–10

Transactivation of the Xenopus rRNA gene promoter by its enhancer. Dunaway M, et al. **Nature** 1989 Oct 19; 341(6243):657–9

Insulin gene enhancer binding protein Isl-1 is a member of a novel class of proteins containing both a homeo- and a Cys-His domain. Karlsson O, et al. **Nature** 1990 Apr 26;344(6269):879–82

A second B cell-specific enhancer 3' of the immunoglobulin heavy-chain locus. Pettersson S, et al. **Nature** 1990 Mar 8;344(6262):165–8

Two adjacent MyoD1-binding sites regulate expression of the acetylcholine receptor alpha-subunit gene. Piette J, et al. **Nature** 1990 May 24;345(6273):353–5

Functional heterogeneity of mammalian TATA-box sequences revealed by interaction with a cell-specific enhancer. Wefald FC, et al. **Nature** 1990 Mar 15; 344(6263):260–2

A cell type-specific enhancer drives expression of the chick muscle acetylcholine receptor alpha-subunit gene. Wang Y, et al. **Neuron** 1988 Aug;1(6):527–34

Transcriptional activation of human papillomavirus 16 by nuclear factor I, AP1, steroid receptors and a possibly novel transcription factor, PVF: a model for the composition of genital papillomavirus enhancers. Chong T, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):465–70

Lymphoid-specific transcriptional activation by components of the IgH enhancer: studies on the E2/E3 and octanucleotide elements. Cook GP, et al. **Nucleic Acids Res** 1990 Jun 25;18(12):3565–71

Functional heterogeneity of a large family of human LTR-like promoters and enhancers. Feuchter A, et al. **Nucleic Acids Res** 1990 Mar 11;18(5):1261–70

Transient expression directed by homologous and heterologous promoter and enhancer sequences in fish cells. Friedenreich H, et al. **Nucleic Acids Res** 1990 Jun 11; 18(11):3299–305

Immunoglobulin kappa light chain gene promoter and enhancer are not responsible for B-cell restricted gene rearrangement. Goodhardt M, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7403–15

Two closely spaced promoters are equally activated by a remote enhancer: evidence against a scanning model for enhancer action. Heuchel R, et al. **Nucleic Acids Res** 1989 Nov 25;17(22):8931–47

Binding of a pancreatic nuclear protein is correlated with amylase enhancer activity. Howard G, et al. **Nucleic Acids Res** 1989 Oct 25;17(20):8185–95

An enhancer element in the house–keeping promoter for acetyl–CoA carboxylase gene. Luo XC, et al. **Nucleic Acids Res** 1990 Jun 11;18(11):3249–54

Involvement of an AFP1–binding site in cell–specific transcription of the pre–S1 region of the human hepatitis B virus surface antigen gene. Nakao K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):9833–42

Expression of yeast 5S RNA is independent of the rDNA enhancer region. Neigeborn L, et al. **Nucleic Acids Res** 1990 Jul 25;18(14):4179–84

Identification of a second inducible DNA–protein interaction in the kappa immunoglobulin enhancer. Nelms K, et al. **Nucleic Acids Res** 1990 Feb 25;18(4):1037–43

Basal expression of the histone H5 gene is controlled by positive and negative cis–acting sequences. Rousseau S, et al. **Nucleic Acids Res** 1989 Sep 25;17(18):7495–511

Properties of the transcriptional enhancer in Saccharomyces cerevisiae telomeres. Runge KW, et al. **Nucleic Acids Res** 1990 Apr 11;18(7):1783–7

A 46 base pair enhancer sequence within the locus activating region is required for induced expression of the gamma–globin gene during erythroid differentiation. Sorrentino B, et al. **Nucleic Acids Res** 1990 May 11; 18(9):2721–31

Binding sites of HeLa cell nuclear proteins on the upstream region of adenovirus type 5 E1A gene. Yoshida K, et al. **Nucleic Acids Res** 1989 Dec 11;17(23):10015–34

c–Ha–ras transfection induces human immunodeficiency virus (HIV) transcription through the HIV–enhancer in human fibroblasts and astrocytes. Arenzana–Seisdedos F, et al. **Oncogene** 1989 Nov;4(11):1359–62

A tumor promoting phorbol ester, TPA, enhances polyomavirus DNA replication by activating the function of the viral enhancer. Murakami Y, et al. **Oncogene** 1990 Jan;5(1):5–13

Cross–talk in signal transduction: TPA–inducible factor jun/AP–1 activates cAMP–responsive enhancer elements. Sassone–Corsi P, et al. **Oncogene** 1990 Mar;5(3):427–31

Tumorigenesis and eye abnormalities in transgenic mice expressing MSV–SV40 large T–antigen. Theuring F, et al. **Oncogene** 1990 Feb;5(2):225–32

DNA octamer element can confer E1A trans–activation, and adenovirus infection results in a stimulation of the DNA–binding activity of OTF–1/NFIII factor. Chellappan SP, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(15):5878–82

An interferon gamma–regulated protein that binds the interferon–inducible enhancer element of major histocompatibility complex class I genes. Driggers PH, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3743–7

Immunoglobulin enhancer and promoter motifs 5' of the B29 B–cell–specific gene. Hermanson GG, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7341–5

Cooperative interactions between transcription factors Sp1 and OTF–1. Janson L, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4732–6

Mouse insulin–responsive glucose transporter gene: characterization of the gene and trans–activation by the CCAAT/enhancer binding protein. Kaestner KH, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):251–5

Myosin light chain enhancer activates muscle–specific, developmentally regulated gene expression in transgenic mice. Rosenthal N, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(20):7780–4

DNA–looping and enhancer activity: association between DNA–bound NtrC activator and RNA polymerase at the bacterial glnA promoter. Su W, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5504–8

Silencing of human immunodeficiency virus long terminal repeat expression by an adenovirus E1a mutant. Ventura AM, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(4):1310–4

Identification and characterization of an enhancer in the coding region of the genome of human immunodeficiency virus type 1. Verdin E, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4874–8

Mutations that disrupt DNA binding and dimer formation in the E47 helix–loop–helix protein map to distinct domains. Voronova A, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(12):4722–6

A DNA replication enhancer in Saccharomyces cerevisiae. Walker SS, et al. **Proc Natl Acad Sci U S A** 1990 Jun; 87(12):4665–9

MyoD binds cooperatively to two sites in a target enhancer sequence: occupancy of two sites is required for activation. Weintraub H, et al. **Proc Natl Acad Sci U S A** 1990 Aug; 87(15):5623–7

Site–directed mutagenesis reveals a liver transcription factor essential for the albumin transcriptional enhancer. Zaret KS, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(14):5469–73

Binding of an erythroid–specific factor to enhancer regions of human globin genes. Gong QH, et al. **Prog Clin Biol Res** 1989;316A:179–91

Characterization of a human globin enhancer element. Tuan DY, et al. **Prog Clin Biol Res** 1989;316A:63–72

The Hin invertasome: protein–mediated joining of distant recombination sites at the enhancer. Heichman KA, et al. **Science** 1990 Aug 3;249(4968):511–7

Two distinct transcription factors that bind the immunoglobulin enhancer microE5/kappa 2 motif. Henthorn P, et al. **Science** 1990 Jan 26;247(4941):467–70

An RNA polymerase–binding protein that is required for communication between an enhancer and a promoter. Herendeen DR, et al. **Science** 1990 May 4;248(4955):573–8

In vivo footprinting of a muscle specific enhancer by ligation mediated PCR [published erratum appears in Science 1990 May 18;248(4957):802] Mueller PR, et al. **Science** 1989 Nov 10;246(4931):780–6

A bacterial enhancer functions to tether a transcriptional activator near a promoter. Wedel A, et al. **Science** 1990 Apr 27;248(4954):486–90

A liver–specific enhancer in the core promoter region of human hepatitis B virus. Yee JK. **Science** 1989 Nov 3; 246(4930):658–61

Long–range activation of transcription by SV40 enhancer is affected by "inhibitory" or "permissive" DNA sequences between enhancer and promoter. Schreiber E, et al. **Somat Cell Mol Genet** 1989 Nov;15(6):591–603

Nuclear proteins binding to an enhancer element of the major histocompatibility class I promoter: differences between highly oncogenic and nononcogenic adenovirus–transformed rat cells. Ackrill AM, et al. **Virology** 1989 Oct;172(2):643–6

DNase I hypersensitive site maps to the HBV enhancer. Akmal M, et al. **Virology** 1989 Oct;172(2):478–88

The DNA–binding domain of HPV–16 E2 protein interaction with the viral enhancer: protein–induced DNA bending and role of the nonconserved core sequence in binding site affinity. Bedrosian CL, et al. **Virology** 1990 Feb; 174(2):557–75

Identification of a third protein factor which binds to the Rous sarcoma virus LTR enhancer: possible homology with the serum response factor. Boulden A, et al. **Virology** 1990 Jan;174(1):204–16

Duplication of enhancer sequences in human papillomavirus 6 from condylomas of the mamilla. Kulke R, et al. **Virology** 1989 Nov;173(1):284–90

Ubiquitous and cell–type–specific protein interactions with human papillomavirus type 16 and type 18 enhancers. Nakshatri H, et al. **Virology** 1990 Sep;178(1):92–103

Activity and enhancer binding factors for JC virus regulatory elements in differentiating embryonal carcinoma cells. Nakshatri H, et al. **Virology** 1990 Aug;177(2):784–9

Detection of an IE responsive element(s) in the BamHI J fragment of human cytomegalovirus AD169. Reifel–Miller AE, et al. **Virology** 1990 Aug;177(2):496–504

The U5 sequence is a cis–acting repressive element for genomic RNA expression of human T cell leukemia virus type I. Seiki M, et al. **Virology** 1990 May;176(1):81–6

Identification of an enhancer–type sequence that is responsive to Z and R trans–activators of Epstein–Barr virus. Shimizu N, et al. **Virology** 1989 Oct;172(2):655–8

The short arm of chromosome 11 likely is involved in the regulation of the human papillomavirus type 16 early enhancer–promoter and in the suppression of the transforming activity of the viral DNA. Smits PH, et al. **Virology** 1990 May;176(1):158–65

Oncogenicity and U3 region sequences of class II recombinant MuLVs of CWD mice. Thomas CY, et al. **Virology** 1990 May;176(1):166–77

[Structures and functions of steroid hormone response elements] Hoshikawa Y, et al. **Nippon Rinsho** 1989 Oct; 47(10):2324–9 **(Jpn)**

[Regulatory mechanism of the SV40 enhancer activity] Nomiyama H, et al. **Seikagaku** 1989 Nov;61(11):1384–9 **(Jpn)**

DRUG EFFECTS

Functional cooperativity between two TPA responsive elements in undifferentiated F9 embryonic stem cells. Okuda A, et al. **EMBO J** 1990 Apr;9(4):1131–5

Synergism of type I and type II interferons in stimulating the activity of the same DNA enhancer. Vaiman D, et al. **FEBS Lett** 1990 Jun 4;265(1–2):12–6

Organization and function of a dioxin–responsive enhancer. Fisher JM, et al. **J Biol Chem** 1990 Jun 15;265(17):9676–81

Regulation of the rat alpha–fetoprotein gene expression in liver. Both the promoter region and an enhancer element are liver–specific and negatively modulated by dexamethasone. Poliard A, et al. **J Biol Chem** 1990 Feb 5;265(4):2137–41

Type beta 1 transforming growth factor gene expression. A corrected mRNA structure reveals a downstream phorbol ester responsive element in human cells. Scotto L, et al. **J Biol Chem** 1990 Feb 5;265(4):2203–8

Phytohemagglutinin–induced activity of cyclic AMP (cAMP) response elements from cytomegalovirus is reduced by cyclosporine and synergistically enhanced by cAMP. Niller HH, et al. **J Virol** 1990 May;64(5):2388–91

Point mutations in the Moloney murine leukemia virus enhancer identify a lymphoid–specific viral core motif and 1,3–phorbol myristate acetate–inducible element. Speck NA, et al. **J Virol** 1990 Feb;64(2):543–50

Alpha interferon suppresses hepatitis B virus enhancer activity and reduces viral gene transcription. Tur–Kaspa R, et al. **J Virol** 1990 Apr;64(4):1821–4

GENETICS

Inhibition of SV40 DNA replication by Rous sarcoma virus LTR enhancer. Binninger D, et al. **Arch Virol** 1989; 107(3–4):291–9

Transactivation of the adenovirus EIIa promoter in the absence of adenovirus E1A protein is restricted to mouse oocytes and preimplantation embryos. Dooley TP, et al. **Development** 1989 Dec;107(4):945–56

Characterization of a human apolipoprotein E gene enhancer element and its associated protein factors. Chang DJ, et al. **J Biol Chem** 1990 Jun 5;265(16):9496–504

A novel sequence element derived from bacteriophage T7 mRNA acts as an enhancer of translation of the lacZ gene in Escherichia coli. Olins PO, et al. **J Biol Chem** 1989 Oct 15;264(29):16973–6

trans activation of human immunodeficiency virus type 1 is sequence specific for both the single–stranded bulge and loop of the trans–acting–responsive hairpin: a quantitative analysis. Berkhout B, et al. **J Virol** 1989 Dec;63(12):5501–4

Identification of an octamer–binding site in the mouse kappa light–chain immunoglobulin enhancer. Currie RA, et al. **Mol Cell Biol** 1989 Oct;9(10):4239–47

Insulin gene enhancer activity is inhibited by adenovirus 5 E1a gene products. Stein RW, et al. **Mol Cell Biol** 1989 Oct;9(10):4531–4

Expression of genes containing the IgH enhancer in non–lymphoid cells. Klein BY, et al. **Mol Immunol** 1990 Aug;27(8):713–22

Stereoalignment requirements for activation of transcription by the simian virus 40 enhancer. Schatz C, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):421–7

A T cell–specific transcriptional enhancer within the human T cell receptor delta locus. Redondo JM, et al. **Science** 1990 Mar 9;247(4947):1225–9

cis–acting elements involved in replication of alfalfa mosaic virus RNAs in vitro. van der Kuyl AC, et al. **Virology** 1990 Jun;176(2):346–54

PHYSIOLOGY

Expression of various viral and cellular enhancer–promoters during differentiation of human embryonal carcinoma cells. Hasegawa T, et al. **Differentiation** 1990 Feb;42(3):191–8

Tissue–specific nuclear factors mediate expression of the CD3 delta gene during T cell development. Georgopoulos K, et al. **EMBO J** 1990 Jan;9(1):109–15

A factor known to bind to endogenous Ig heavy chain enhancer only in lymphocytes is a ubiquitously active transcription factor. Elmaleh N, et al. **Eur J Biochem** 1990 Feb 14;187(3):507–13

Cis effect of the type 5 adenovirus E1A gene enhancer element on cellular transformation. Herbst RS, et al. **J Cell Biochem** 1990 Jan;42(1):33–44

The effect of depolarization on expression of the human proenkephalin gene is synergistic with cAMP and dependent upon a cAMP–inducible enhancer. Van Nguyen T, et al. **J Neurosci** 1990 Aug;10(8):2825–33

Characterization of a cAMP–regulated enhancer–binding protein. Habener JF, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):13–6

Beta–globin enhancers target expression of a heterologous gene to erythroid tissues of transgenic mice. Magram J, et al. **Mol Cell Biol** 1989 Oct;9(10):4581–4

A tissue–specific enhancer in the rat–calcitonin/CGRP gene is active in both neural and endocrine cell types. Stolarsky–Fredman L, et al. **Mol Endocrinol** 1990 Mar; 4(3):497–504

The identification of hepatitis B virus X gene responsive elements reveals functional similarity of X and HTLV–I tax. Faktor O, et al. **Oncogene** 1990 Jun;5(6):867–72

ENKEPHALIN DIPEPTIDYL CARBOXYPEPTIDASE see **MEMBRANE METALLO–ENDOPEPTIDASE**

ENKEPHALIN, LEUCINE

Transferred nuclear Overhauser effect analyses of membrane–bound enkephalin analogues by 1H nuclear magnetic resonance: correlation between activities and membrane–bound conformations. Milon A, et al. **Biochemistry** 1990 Jan 9;29(1):65–75

Dynamic space structure of the Leu–enkephalin molecule in DMSO solution. Vesterman B, et al. **Biochim Biophys Acta** 1989 Oct 5;998(2):204–9

17O– and 14N–NMR studies of Leu–enkephalin and enkephalin–related fragments in aqueous solution. Karayannis T, et al. **Biopolymers** 1990 Feb 5;29(2):423–39

Does a 2——5 beta–turn structure exist in enkephalins? Study of a fully protected Leu–enkephalin in organic solution by 17O–NMR. Moret E, et al. **FEBS Lett** 1990 Mar 26; 262(2):173–5

ANALOGS & DERIVATIVES

Transferred nuclear Overhauser effect analyses of membrane–bound enkephalin analogues by 1H nuclear magnetic resonance: correlation between activities and membrane–bound conformations. Milon A, et al. **Biochemistry** 1990 Jan 9;29(1):65–75

Stress–induced tolerance to delta receptor agonist DPDPE and selectivity of the irreversible delta–ligand, DALCE. Calcagnetti DJ, et al. **Brain Res** 1990 Feb 19;509(2):205–12

Facilitatory effects of opioids on the discharges of visceral

nociceptors. Kumazawa T, et al. **Brain Res** 1989 Sep 18; 497(2):231–8

Binding of opioids to human MCF-7 breast cancer cells and their effects on growth. Maneckjee R, et al. **Cancer Res** 1990 Apr 15;50(8):2234–8

Enkephalin affects ion transport via the enteric nervous system in guinea-pig ileum. Schulzke JD, et al. **Eur J Clin Invest** 1990 Apr;20(2):182–91

Effects of thioamide substitution for the enkephalin conformation. Crystal structure of Boc-Tyr-Gly-Gly-Phe psi [CSNH]Leu-OBzl. Doi M, et al. **Int J Pept Protein Res** 1989 Nov;34(5):369–73

Preparation and opioid activities of N-methylated analogs of [D-Ala2,Leu5]enkephalin. Kawai M, et al. **Int J Pept Protein Res** 1990 May;35(5):452–9

Receptor selectivity of enkephalin analogs carrying artificial address peptides. Kimura S, et al. **Int J Pept Protein Res** 1990 Jun;35(6):550–6

Chronic exposure of NG 108-15 cells to opiate agonists does not alter the amount of the guanine nucleotide-binding proteins Gi and Go. Lang J, et al. **J Neurochem** 1989 Nov; 53(5):1500–6

Delta but not mu-opioid receptors in the spinal cord are involved in antinociception induced by beta-endorphin given intracerebroventricularly in mice. Suh HH, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):981–6

ICI 174,864, a selective delta opioid antagonist, reverses the learning impairment produced by [leu]enkephalin. Schulteis G, et al. **Psychopharmacology (Berl)** 1990;100(1):102–9

[The effect of the peptide dalargin on wound healing] Kohl A, et al. **Dermatol Monatsschr** 1989;175(9):561–72 (Eng. Abstr.) **(Ger)**

[Effects of opioid receptor ligands on DNA synthesis and histamine contents in the gastric mucosa and blood of white rats] Aleksandrovich AG, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):209–11 (Eng. Abstr.) **(Rus)**

[Effects of several regulatory peptides on the functional activity of the pancreas in acute experimental pancreatitis] Grigorevskiĭ VP, et al. **Biull Eksp Biol Med** 1989 Oct; 108(10):428–30 (Eng. Abstr.) **(Rus)**

[A comparative study of the effectiveness of regulatory peptides in acute experimental pancreatitis] Grigorevskiĭ VP, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):571–4 (Eng. Abstr.) **(Rus)**

[Participation of agonists and antagonist of opiate receptors in the regulation of contractile activity of lymphatic microvessels of the rat mesentery] Khugaeva VK. **Biull Eksp Biol Med** 1990 Feb;109(2):137–40 (Eng. Abstr.) **(Rus)**

[Study of xanthine oxidase activity in the brain tissue after administration of dalargin during myoplegia] Korotkina RN, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):145–6 (Eng. Abstr.) **(Rus)**

[The action of an enzymatically stable Leu-enkephalin analog on the prostanoid content in the myocardium under stress- and adrenaline-induced damage] Lishmanov IuB, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):704–6 (Eng. Abstr.) **(Rus)**

[Effects of dalargin, a synthetic analog of endogenous opioids, on functional indices of isolated rat heart in experimental toxemia in vitro] Pashutin SB. **Biull Eksp Biol Med** 1989 Nov;108(11):533–6 (Eng. Abstr.) **(Rus)**

[The antinociceptive properties of dalargin as an agent of anesthesiologic protection] Shloznikov BM, et al. **Biull Eksp Biol Med** 1990 Mar;109(3):272–5 (Eng. Abstr.) **(Rus)**

[Effect of opiate receptor agonists on the course of hemorrhagic shock in rats] Slepushkin VD, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):667–9 (Eng. Abstr.) **(Rus)**

[Effects of dalargin on proliferative processes and vertical migration of cells of the corneal epithelium during stress] Timoshin SS, et al. **Biull Eksp Biol Med** 1990 Feb; 109(2):189–91 (Eng. Abstr.) **(Rus)**

[Use of synthetic analogs of enkephalins as antiatherogenic means] Zoloev GK, et al. **Biull Eksp Biol Med** 1989 Oct; 108(10):468–70 (Eng. Abstr.) **(Rus)**

[The effect of synthetic analog of leu-enkephalin on frog electroretinogram] Vitanova L, et al. **Dokl Akad Nauk SSSR** 1990 Jan-Feb;310(1):237–9 **(Rus)**

[Enkephalin blockade of the stimulating effect of parathormone on adrenal cortex function] Lasukova TV. **Fiziol Zh SSSR** 1990 Mar;76(3):402–5 (Eng. Abstr.) **(Rus)**

[Effect of the leucine enkephalin analog dalargin on the components of the sympathetico-adrenal system in experimental myocardial infarction] Afonskaia NI, et al. **Kardiologiia** 1990 Feb;30(2):78–81 (Eng. Abstr.) **(Rus)**

[Use of a synthetic opioid for the reversal of stress-induced damage of the myocardium and gastric mucosa in severe thermal trauma] Dvortsin GF. **Kardiologiia** 1989 Sep; 29(9):81–3 (Eng. Abstr.) **(Rus)**

[Treatment of peptic ulcer hemorrhage with leucine enkephalin analog dalargin] Georgadze AK, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):39–43 (Eng. Abstr.) **(Rus)**

[Dalargin in the prevention of acute postoperative pancreatitis] Grigorevskiĭ VP, et al. **Klin Khir** 1989; (11):9–12 (Eng. Abstr.) **(Rus)**

[Dalargin in the treatment of arteriosclerosis obliterans of the lower extremities] Dudko VA, et al. **Sov Med** 1990; (2):90–2 **(Rus)**

[A new method of general anesthesia in pulmonary surgery using dalargin instead of narcotic analgesics] Kuzin MI, et al. **Vestn Akad Med Nauk SSSR** 1990;(3):7–11 (Eng. Abstr.) **(Rus)**

[The possibility of predicting the antinociceptive effect of dalargin in the preoperative period] Petrov OV, et al. **Vestn Akad Med Nauk SSSR** 1990;(3):5–7 (Eng. Abstr.) **(Rus)**

[Anti-ischemic effect of the new Soviet drug dalargin] Sokolovich GE, et al. **Voen Med Zh** 1989 Jun;(6):20–2 **(Rus)**

[The inhibitory effect of the synthetic leu-enkephalin analog dalargin on carcinogenesis] Anisimov VN, et al. **Vopr Onkol** 1990;36(5):556–9 (Eng. Abstr.) **(Rus)**

[Serotonin excess in the brain modifies the effect of beta-endorphin and dalargin on the processes of learning and memory] Kruglikov RI, et al. **Zh Vyssh Nerv Deiat** 1990 Mar-Apr;40(2):310–7 (Eng. Abstr.) **(Rus)**

[The effect of the opioid peptide DADLE on the neuronal activity of the visual cortex and on the behavior of rabbits during learning] Shul'gina GI. **Zh Vyssh Nerv Deiat** 1990 May-Jun;40(3):590–3 **(Rus)**

ANALYSIS

Detection of Met-enkephalin and Leu-enkephalin in the brain of the hagfish, Eptatretus stouti, and the lamprey, Petromyzon marinus. Dores RM, et al. **Gen Comp Endocrinol** 1990 Mar;77(3):489–99

Measurement of methionine enkephalin and leucine enkephalin in rat brain regions by high-performance liquid chromatography with coulometric electrochemical detection. Kim C, et al. **J Chromatogr** 1989 Sep 29; 494:67–76

Multi-dimensional high-performance liquid chromatography of opioid peptides following pre-column derivatization with naphthalene-2,3-dicarboxaldehyde in the presence of cyanide ion. Preliminary results on the determination of leucine- and methionine-enkephalin-like fluorescence in the striatum region of the rat brain. Mifune M, et al. **J Chromatogr** 1989 Nov 10;496(1):55–70

Detection of Met-enkephalin and Leu-enkephalin in the posterior pituitary of the holostean fish, Amia calva. Dores RM, et al. **Peptides** 1989 Sep-Oct;10(5):951–6

Relation of enkephalin-like immunoreactive neurons to other neuropeptide and monoamine-containing neurons in the ventrolateral medulla. Ciriello J, et al. **Prog Brain Res** 1989; 81:3–15

[Characteristics of several parameters of immune status, opioid and interferon systems in athletes] Surkina ID, et al. **Biull Eksp Biol Med** 1990 Jan;109(1):51–3 **(Rus)**

[Leu-enkephalin localization in brain capillaries] Lomakin AV, et al. **Dokl Akad Nauk SSSR** 1990;310(5):1263–5 **(Rus)**

ANTAGONISTS & INHIBITORS

ICI 174,864, a selective delta opioid antagonist, reverses the learning impairment produced by [leu]enkephalin. Schulteis G, et al. **Psychopharmacology (Berl)** 1990;100(1):102–9

BIOSYNTHESIS

Change of Leu-enkephalin- and B-endorphin-like immunoreactivity in the hippocampus after electroconvulsive shock and electroacupuncture. He XP, et al. **Acupunct Electrother Res** 1989;14(2):131–9

Production of enkephalin in tobacco protoplasts using tobacco mosaic virus RNA vector. Takamatsu N, et al. **FEBS Lett** 1990 Aug 20;269(1):73–6

Formation of [Leu5]enkephalin from dynorphin A(1-8) by rat central nervous tissue in vitro. Dixon DM, et al. **J Neurochem** 1990 Apr;54(4):1379–85

Conversion of the dynorphins to Leu-enkephalin in human spinal cord. Nyberg F, et al. **Prog Clin Biol Res** 1990; 328:261–5

BLOOD

Plasma leucine enkephalin is increased in liver disease. Thornton JR, et al. **Gut** 1989 Oct;30(10):1392–5

Altered plasma leucine-enkephalin concentrations in patients with established hypertension may be involved in impaired regulation of blood pressure. Kraft K, et al. **J Hypertens Suppl** 1989 Dec;7(6):S18–9

Simultaneous extraction of beta-endorphin and leu- and met-enkephalins from human and rat plasma. Bhathena SJ, et al. **Life Sci** 1989;45(10):901–6

Altered plasma leucine-enkephalin concentrations in patients with established hypertension. Kraft K, et al. **Prog Clin Biol Res** 1990;328:367–70

HPLC-ECD determination of the enzymatic hydrolysis of [leu]- and [met]enkephalin in rat plasma. Shibanoki S, et al. **Prog Clin Biol Res** 1990;328:253–6

Serum leucine-enkephalin in bronchial carcinoma and its relation to tumour location. Gosney JR, et al. **Thorax** 1990 Jan;45(1):9–11

[Movement of plasma leu-enkephalin-like substance concentrations during pregnancy] Nishimura K, et al. **Masui** 1989 Jul;38(7):888–90 (Eng. Abstr.) **(Jpn)**

[Clinical significance of serum enkephalin analysis in pituitary function tests] Kato Y. **Nippon Rinsho** 1989 Dec;48 Suppl:1043–6 **(Jpn)**

[Plasma levels of endogenous opioid peptides in patients with chronic colitis] Shafer NP. **Klin Med (Mosk)** 1989 Oct; 67(10):101–3 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

A study on opioid peptides in CSF of patients with epilepsy. Cheng JG, et al. **Epilepsy Res** 1990 Jul;6(2):141–5

Determination of leucine enkephalin and methionine enkephalin in equine cerebrospinal fluid by microbore high-performance liquid chromatography and capillary zone electrophoresis coupled to tandem mass spectrometry. Mück WM, et al. **J Chromatogr** 1989 Oct 27;495:41–59

[The concentration of homovanillic acid and leucine-enkephalin in the lumbar CSF of patients with Parkinson's disease before and after madopar treatment] Liu DK. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):95–8, 126–7 (Eng. Abstr.) **(Chi)**

[An experimental study on the contents of enkephalins in the cerebrospinal fluid in rabbits with unilateral destructive lesions produced in the substantia nigra and their relation to the regulation of MIF-1] Lu ZH. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):92–4, 126 (Eng. Abstr.) **(Chi)**

[A study of the leucine enkephalin like substance and enkephalin degrading enzyme activity in human cerebrospinal fluid] Hasumi K, et al. **Masui** 1989 Sep; 38(9):1177–80 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

[Isolation and study of the properties of specific antisera to [leu]enkephalin] Rostovtsev AP, et al. **Biol Nauki** 1989; (12):49–54 (Eng. Abstr.) **(Rus)**

METABOLISM

Distribution of axons showing both enkephalin- and serotonin-like immunoreactivities in the lumbar cord segments of the Japanese monkey (Macaca fuscata). Tashiro T, et al. **Brain Res** 1990 Mar 26;512(1):143–6

Inhibition of leucine enkephalin metabolism in rat blood, plasma and tissues in vitro by an aminoboronic acid derivative. Hussain MA, et al. **Drug Metab Dispos** 1990 May-Jun;18(3):288–91

Hydrolysis and binding of leucine enkephalin to lymphomic and erythroleukaemic cell lines. Roscetti G, et al. **Int J Immunopharmacol** 1990;12(4):391–6

In vitro interactions of opioid peptides with phospholipids. IV. Methionine enkephalin versus leucine enkephalin. D'Alagni M, et al. **Int J Pept Protein Res** 1990 Apr; 35(4):328–35

Geniculo-geniculate projection of enkephalin and neuropeptide Y containing neurons in the intergeniculate leaflet of the thalamus in the rat. Takatsuji K, et al. **J Chem Neuroanat** 1989 Jan-Feb;2(1):19–27

Ultrastructural analysis of enkephalinergic terminals in parasympathetic ganglia innervating the urinary bladder of the cat. Kawatani M, et al. **J Comp Neurol** 1989 Oct 1;288(1):81–91

Distribution of substance P-like, leucine-enkephalin-like, and bombesine-like immunoreactivity and acetylcholinesterase activity in the visual system of salamanders. Schmidt A, et al. **J Comp Neurol** 1989 Oct 1;288(1):123–35

Kinetic analysis of leucine-enkephalin cellular uptake at the luminal side of the blood-brain barrier of an in situ perfused guinea-pig brain. Zlokovic BV, et al. **J Neurochem** 1989 Nov;53(5):1333–40

Asynchronous appearance and topographic segregation of neuropeptide-containing cells in the developing rat adrenal medulla. Henion PD, et al. **J Neurosci** 1990 Sep; 10(9):2886–96

Recovery of rat nasal mucosa from the effects of aminopeptidase inhibitors. Hussain MA, et al. **J Pharm Sci** 1990 May;79(5):398–400

Effects of phentolamine and propranolol on the changes of pain threshold and contents of MEK and LEK in rat brain after EA. Wang YJ, et al. **J Tradit Chin Med** 1989 Sep; 9(3):210–4

Plasma uptake and in vivo metabolism of [Leu]enkephalin following its intraperitoneal administration to rats. Schulteis G, et al. **Peptides** 1989 Sep-Oct;10(5):913–9

Effect of fluphenazine on the footshock-induced opioid analgesia and leu-enkephalin concentration in the rat brain. Kowalski J, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec; 40(6):621–5

Leu-enkephalin content in rat brain during prolonged treatment with imipramine or amitriptyline. Obuchowicz E, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec; 40(6):635–41

Adrenal dynorphin A and Leu-enkephalin levels in normotensive Wistar Kyoto (WKY) and spontaneously hypertensive rats (SHR). Dumont M, et al. **Prog Clin Biol Res** 1990;328:243–6

Tyrosine hydroxylase and enkephalin in nuclei of the solitary tracts: co-existence and convergent synaptic input to catecholamine neurons. Pickel VM, et al. **Prog Clin Biol Res** 1990;328:267–70

[Effects of electroacupuncture at different hours on leucine-enkephalin contents in rat brain regions] Wang YJ, et al. **Chen Tzu Yen Chiu** 1989;14(4):420–3 (Eng. Abstr.) **(Chi)**

[Effects of monoamine oxidase B inhibitor and MPTP (1-methyl-4-phenyl-1,2,3,6-tetra-hydropyridine) on enkephalin levels in mice] Sheng J. **Chung Hua Shen Ching Ching Shen Ke Tsa Chih** 1990 Apr; 23(2):104-6, 127-8 (Eng. Abstr.) **(Chi)**

[Location of immunoreactive leucine enkephalin in the digestive gland of the Mollusca Mizuhopecten yessoensis (Jay)] Varaksin AA, et al. **Arkh Anat Gistol Embriol** 1990 Jan;98(1):71-4 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Leu-enkephalin effects at the mouse neuromuscular junction. Re L, et al. **Acta Physiol Hung** 1990;75 Suppl:243-4

Amphetamine stereotypy in cats and neurotransmitter interactions in the caudate nucleus. II. Effects of intracaudate injection of leu-enkephalin and naloxone. Moyanova SG, et al. **Acta Physiol Pharmacol Bulg** 1989; 15(2):47-52

Physiologic role of the peripheral enkephalinergic system in regulating cardiovascular homeostasis: evidence of interactions with the renin-angiotensin and kallikrein-kinin systems. Carmignani M, et al. **Adv Exp Med Biol** 1989; 247B:477-81

Neuropeptides as positive or negative neuronal growth regulatory factors: effects of ACTH and leu-enkephalin on cultured serotonergic neurons. Davila-Garcia MI, et al. **Adv Exp Med Biol** 1990;265:75-92 (90 ref.)

Modulation of superoxide anion release from human polymorphonuclear cells by Met- and Leu-enkephalin. Marotti T, et al. **Brain Behav Immun** 1990 Mar;4(1):13-22

Effects of acute and chronic administration of Leu-enkephalin on cultured serotonergic neurons: evidence for opioids as inhibitory neuronal growth factors. Davila-Garcia MI, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):97-103

Biologically active conformation of [Met5]- and [Leu5]enkephalin on delta opioid receptor. Galparik J. **Eur J Pharmacol** 1989 Dec 5;172(6):417-23

Modulation of morphine antinociception by peripheral [Leu5]enkephalin: a synergistic interaction. Porreca F, et al. **Eur J Pharmacol** 1990 Apr 25;179(3):463-8

Leu-enkephalin, tamoxifen and ethanol interactions: effects on motility and hepatic ethanol metabolizing enzymes. Messiha FS. **Gen Pharmacol** 1990;21(1):45-8

Effects of leu-enkephalin on the mechanical activity of longitudinal and circular muscles of the small intestine of the cat. Venkova K, et al. **Neuropharmacology** 1989 Nov; 28(11):1183-91

Effect of leucine enkephalin on ethanol produced behavioral depression in the mouse. Messiha FS. **Physiol Behav** 1989 Jul;46(1):19-23

Administration of leu-enkephalin impairs the acquisition of preference for ethanol. Sandi C, et al. **Psychopharmacology (Berl)** 1990;100(3):350-4

[Effects of opioid receptor ligands on DNA synthesis and histamine contents in the gastric mucosa and blood of white rats] Aleksandrovich AG, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):209-11 (Eng. Abstr.) **(Rus)**

[Participation of agonists and antagonist of opiate receptors in the regulation of contractile activity of lymphatic microvessels of the rat mesentery] Khugaeva VK. **Biull Eksp Biol Med** 1990 Feb;109(2):137-40 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Met- and leu-enkephalins inhibit rat cortical neurons intracellularly recorded in vivo while morphine excites them: evidence for naloxone-sensitive and naloxone-insensitive effects. Stanzione P, et al. **Exp Brain Res** 1989;77(2):302-8

[The role of endogenous enkephalins in the regulation of bone marrow hematopoiesis in stress] Gol'dberg ED, et al. **Gematol Transfuziol** 1989 Aug;34(8):20-3 (Eng. Abstr.) **(Rus)**

ENKEPHALIN, METHIONINE

Morphine-like activity of some N-substituted amides of met-enkephalin. Raghubir R, et al. **Indian J Exp Biol** 1989 Sep;27(9):826-8

ANALOGS & DERIVATIVES

Immunomodulatory activity of D-Met2-Pro5-enkephalinamide. Török K, et al. **Acta Physiol Hung** 1990;75 Suppl:285-6

Opioid peptides (DAGO-enkephalin, dynorphin A(1-13), BAM 22P) microinjected into the rat brainstem: comparison of their antinociceptive effect and their effect on neuronal firing in the rostral ventromedial medulla. Fang FG, et al. **Brain Res** 1989 Oct 30;501(1):116-28

Peptidergic granule cell populations in the rat main and accessory olfactory bulb. Gouda M, et al. **Brain Res** 1990 Apr 2;512(2):339-42

Developmental expression of proenkephalin mRNA and peptides in rat striatum. Tecott LH, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):75-86

Distribution and functional significance of Met-enkephalin-Arg6-Phe7- and Met-enkephalin-Arg6-Gly7-Leu8-like peptides in the blowfly Calliphora vomitoria. I. Immunocytochemical mapping of neuronal pathways in the brain. Duve H, et al. **Cell Tissue Res** 1989 Oct;258(1):147-61

Distribution of functional significance of Met-enkephalin-Arg6-Phe7- and Met-enkephalin-Arg6-Gly7-Leu8-like peptides in the blowfly Calliphora vomitoria. II. Immunocytochemical mapping of neuronal pathways in the retrocerebral complex and thoracic ganglion. Duve H, et al. **Cell Tissue Res** 1990 Jan;259(1):147-57

Enzyme immunoassay for methionine-enkephalin sulfoxide. Tiong GK, et al. **Clin Exp Pharmacol Physiol** 1990 Jul; 17(7):515-9

Inhibition of sympathetic neurotransmission by the opioid delta-receptor agonist DAMA in the pithed rat. Wong-Dusting H, et al. **Clin Exp Pharmacol Physiol** 1989 Nov;16(11):821-7

Naloxone-insensitive modulation of gastric acid output by [D-Met2,Pro5]enkephalinamide in rats. Till M, et al. **Eur J Pharmacol** 1990 Jan 17;175(3):355-8

Effect of met-enkephalin and met-enkephalin-Arg6-Phe7 on bombesin-like immunoreactivity (BLI), somatostatin and gastrin secretion from the perfused rat stomach. Madaus S, et al. **Hepatogastroenterology** 1990 Apr;37(2):201-3

A novel endocrine cell type in the guinea-pig gastric mucosa: cellular source of pro-enkephalin-derived peptides. A histochemical, immunohistochemical, and electron microscopical characterization. Cetin Y. **Histochemistry** 1990;94(1):31-44

Immunohistochemical localization of Met5-enkephalin-Arg6-Gly7-Leu8 in the female genital organs and in the paracervical ganglion of the pig. Häppölä O, et al. **Histochemistry** 1990;93(5):479-84

Antitumor activity of enkephalin analogues in inhibiting PYB6 tumor growth in mice and immunological effects of methionine enkephalinamide. Srisuchart B, et al. **Int J Immunopharmacol** 1989;11(5):487-500

Localisation of chromogranin A and B, met-enkephalin-arg6-gly7-leu8 and PGP9.5-like immunoreactivity in the developing and adult rat adrenal medulla and extra-adrenal chromaffin tissue. Kent C, et al. **J Anat** 1989 Oct;166:213-25

Attenuation of reflex pressor and ventilatory responses to static muscular contraction by intrathecal opioids. Hill JM, et al. **J Appl Physiol** 1990 Jun;68(6):2466-72

Met5-enkephalin-Arg6-Gly7-Leu8-like immunoreactivity in the pelvic ganglion of the male rat: a light and electron microscopic study. Wang BR, et al. **J Comp Neurol** 1990 Mar 1;293(1):26-38

A sensitive and specific enzyme-linked immunosorbent assay for methionine enkephalin sulphoxide. Tiong GK, et al. **J Immunol Methods** 1990 Jul 20;131(1):65-9

Kappa opioid partial agonist activity of the enkephalin-like pentapeptide BW942C based on urination and in vitro studies in humans and animals. Vaupel DB, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):225-34

Effects of metkephamid (LY127623), a selective delta opioid receptor agonist, on gastric function. Glavin GB, et al. **Life Sci** 1990;46(15):1075-9

Immunoreactive evidence of beta-endorphin and methionine-enkephalin-Arg-Gly-Leu in human tooth pulp. Robinson QC, et al. **Life Sci** 1989;45(11):987-92

Supra-additive stimulation of adenylate cyclase activity by prostaglandin E2 and D-Ala2-met-enkephalinamide in the guinea-pig superior cervical ganglion: role of Mg2+ions. Borasio PG, et al. **Neurochem Res** 1989 Dec;14(12):1181-6

Secondary structure characteristics of proenkephalin peptides E, B, and F. Hiddinga HJ, et al. **Neurochem Res** 1990 Apr; 15(4):393-9

Microdialysis of extracellular endogenous opioid peptides from rat brain in vivo. Maidment NT, et al. **Neuroscience** 1989;33(3):549-57

Effects of [D-Ala2] Met-enkephalinamide, a Met-enkephalin analog, on delayed response by squirrel monkeys. Scott AG, et al. **Physiol Behav** 1989 Oct;46(4):605-11

Opiate-like peptides. Part XII. Synthesis and some biological properties of Met-enkephalin analogues modified in position 2 by D-alanyl residue in positions 2 and 4 by 3-(2-naphthyl)-D-alanyl residue. Rolka K, et al. **Pol J Pharmacol Pharm** 1989 Mar-Apr;41(2):147-56

Intratesticular injection of [D-Met2-Pro5]enkephalinamide suppresses testosterone secretion of the testis of immature rat. Gerendai I, et al. **Regul Pept** 1990 Jan;27(1):107-15

The proabsorptive effect of D-ala2-metenkephalinamide is mediated by naloxone-sensitive opiate receptors in the isolated perfused ileum. Bastidas JA, et al. **Surgery** 1990 Jun;107(6):648-54

ANALYSIS

Effects of central osmotic stimulation on vasopressin and enkephalin release into the blood and cerebrospinal fluid and blood pressure. Ota K, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):62-70

Immunohistochemical localization of VIP and Met-enkephalin in the rabbit submandibular and sublingual glands. Menghi G, et al. **Acta Histochem (Jena)** 1989; 87(2):81-5

The brainstem origin of enkephalin- and substance-P-like immunoreactive axons in the spinal cord of the North American opossum. Cassini P, et al. **Brain Behav Evol** 1989; 34(4):212-22

Enzyme immunoassay for methionine-enkephalin sulfoxide. Tiong GK, et al. **Clin Exp Pharmacol Physiol** 1990 Jul; 17(7):515-9

Localization of met-enkephalin like immunoreactivity in the glabrous skin of the cat rhinarium. Vega JA, et al. **Eur J Morphol** 1990;28(1):69-78

Detection of Met-enkephalin and Leu-enkephalin in the brain of the hagfish, Eptatretus stouti, and the lamprey, Petromyzon marinus. Dores RM, et al. **Gen Comp Endocrinol** 1990 Mar;77(3):489-99

Measurement of methionine enkephalin and leucine enkephalin in rat brain regions by high-performance liquid chromatography with coulometric electrochemical detection. Kim C, et al. **J Chromatogr** 1989 Sep 29; 494:67-76

Multi-dimensional high-performance liquid chromatography of opioid peptides following pre-column derivatization with naphthalene-2,3-dicarboxaldehyde in the presence of cyanide ion. Preliminary results on the determination of leucine- and methionine-enkephalin-like fluorescence in the striatum region of the rat brain. Mifune M, et al. **J Chromatogr** 1989 Nov 10;496(1):55-70

Met-enkephalin immunoreactivity in the basal ganglia in Parkinson's disease and striatonigral degeneration. Goto S, et al. **Neurology** 1990 Jul;40(7):1051-6

Detection of Met-enkephalin and Leu-enkephalin in the posterior pituitary of the holostean fish, Amia calva. Dores RM, et al. **Peptides** 1989 Sep-Oct;10(5):951-6

Comparison of synenkephalin and methionine enkephalin immunocytochemistry in rat brain. Song DD, et al. **Peptides** 1989 Nov-Dec;10(6):1239-46

Opioids from immunocytes interact with receptors on sensory nerves to inhibit nociception in inflammation. Stein C, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(15):5935-9

Relation of enkephalin-like immunoreactive neurons to other neuropeptide and monoamine-containing neurons in the ventrolateral medulla. Ciriello J, et al. **Prog Brain Res** 1989; 81:3-15

The immunostaining for the hypothalamic vasoactive intestinal peptide, but not for beta-endorphin, dynorphin-A or methionine-enkephalin, is affected by the glucocorticoid milieu in the rat: correlation with the prolactin secretion. Watanobe H. **Regul Pept** 1990 May 21;28(3):301-11

[Structural organization of [met]enkephalin and endorphin molecules. III. Theoretical conformation analysis of beta-endorphin] Akhmedov NA, et al. **Bioorg Khim** 1990 May;16(5):661-7 (Eng. Abstr.) **(Rus)**

[Structural organization of [Met]enkephalin and endorphin molecules. I. Theoretical conformation analysis of [Met]enkephalin] Popov EM, et al. **Bioorg Khim** 1990 Apr; 16(4):482-91 (Eng. Abstr.) **(Rus)**

[Structural organization of [met]enkephalin and endorphin molecules. II. Theoretical conformation analysis of alpha-, gamma- and delta-endorphins] Sulelmanova EV, et al. **Bioorg Khim** 1990 May;16(5):649-60 (Eng. Abstr.) **(Rus)**

[Analysis of the mechanism of the stress-protective action of delta sleep-inducing peptide] Iukhananov RIu, et al. **Biull Eksp Biol Med** 1990 Jan;109(1):46-7 (Eng. Abstr.) **(Rus)**

BLOOD

Tolerance and cross-tolerance to stress-induced increases in plasma Met-enkephalin in rats with adaptively increased resting secretion. Van Loon GR, et al. **Endocrinology** 1990 Apr;126(4):2196-204

Effect of exercise on met-enkephalin in unfit and superfit individuals. De Sommers K, et al. **Eur J Clin Pharmacol** 1989;37(4):399-400

Circulating met-enkephalin in trained athletes during rest, exhaustive treadmill exercise and marathon running. Sommers DK, et al. **Eur J Clin Pharmacol** 1990;38(4):391-2

High levels of circulating met-enkephalin in pregnant and menstruating type 1 diabetic women. Negri M, et al. **Gynecol Endocrinol** 1990 Mar;4(1):25-31

Methionine-enkephalin in migraine and tension headache. Differences between classic migraine, common migraine and tension headache, and changes during attacks. Ferrari MD, et al. **Headache** 1990 Feb;30(3):160-4

Endogenous opioid peptides in the pathogenesis of ascites. Henriksen JH. **Hepatology** 1989 Nov;10(5):896-7

Circulating opioid peptides during thermal stress. Vescovi PP, et al. **Horm Metab Res** 1990 Jan;22(1):44-6

Plasma native and peptidase-derivable Met-enkephalin responses to restraint stress in rats. Adaptation to repeated restraint. Pierzchala K, et al. **J Clin Invest** 1990 Mar; 85(3):861-73

Release of platelet Met-enkephalin, but not serotonin, in migraine. A platelet response unique to migraine patients? Ferrari MD, et al. **J Neurol Sci** 1989 Oct;93(1):51-60

Beta-endorphin and met-enkephalin in plasma of cattle during pregnancy, parturition and the neonatal period. Aurich JE, et al. **J Reprod Fertil** 1990 Jul;89(2):605-12

Simultaneous extraction of beta-endorphin and leu- and met-enkephalins from human and rat plasma. Bhathena SJ, et al. **Life Sci** 1989;45(10):901-6

HPLC-ECD determination of the enzymatic hydrolysis of [leu]- and [met]enkephalin in rat plasma. Shibanoki S, et al. **Prog Clin Biol Res** 1990;328:253-6

[Clinical significance of serum enkephalin analysis in pituitary function tests] Kato Y. **Nippon Rinsho** 1989 Dec;48 Suppl:1043-6 **(Jpn)**

[Blood levels of opioid peptides and alpha interferon under the action of dipyridamole] Balashov AM, et al. **Biull Eksp Biol Med** 1990 May;109(5):462-4 (Eng. Abstr.) **(Rus)**

[The met-enkephalin and beta-endorphin content of the blood in the early period after acute blood loss in rats] Zoloev GK. **Biull Eksp Biol Med** 1990 Mar;109(3):231–4 (Eng. Abstr.) **(Rus)**

[Plasma levels of endogenous opioid peptides in patients with chronic colitis] Shafer NP. **Klin Med (Mosk)** 1989 Oct; 67(10):101–3 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Increased levels of Met-enkephalin-like immunoreactivity in the spinal cord CSF of rats with adrenal medullary transplants. Sagen J, et al. **Brain Res** 1989 Nov 13; 502(1):1–10

A study on opioid peptides in CSF of patients with epilepsy. Cheng JG, et al. **Epilepsy Res** 1990 Jul;6(2):141–5

Low CSF met-enkephalin levels in cluster headache are elevated by acupuncture. Hardebo JE, et al. **Headache** 1989 Sep;29(8):494–7

Determination of leucine enkephalin and methionine enkephalin in equine cerebrospinal fluid by microbore high-performance liquid chromatography and capillary zone electrophoresis coupled to tandem mass spectrometry. Mück WM, et al. **J Chromatogr** 1989 Oct 27;495:41–59

Measurement of lumbar CSF levels of met-enkephalin, encrypted met-enkephalin, and neuropeptide Y in normal patients and in patients with Parkinson's disease before and after autologous transplantation of adrenal medulla into the caudate nucleus. Yaksh TL, et al. **J Lab Clin Med** 1990 Mar;115(3):346–51

[An experimental study on the contents of enkephalins in the cerebrospinal fluid in rabbits with unilateral destructive lesions produced in the substantia nigra and their relation to the regulation of MIF-1] Lu ZH. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):92–4, 126 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Dual immunomodulation by met-enkephalin. Rowland RR, et al. **Brain Behav Immun** 1989 Jun;3(2):171–4

Intrathecal [Met5]enkephalin antibody blocks analgesia induced by intracerebroventricular beta-endorphin but not morphine in mice. Tseng LL, et al. **Eur J Pharmacol** 1989 Dec 7;173(2-3):171–6

METABOLISM

Osmotic regulation of methionine enkephalin in the posterior pituitary of the rat. Jessop D, et al. **Brain Res** 1990 May 14;516(1):41–5

D1 dopamine receptor-mediated substance P depletion in the striatonigral neurons of rats subjected to neonatal dopaminergic denervation: implications for self-injurious behavior. Sivam SP. **Brain Res** 1989 Oct 23;500(1-2):119–30

Opioids can enhance and inhibit the electrically evoked release of methionine-enkephalin. Xu H, et al. **Brain Res** 1989 Dec 11;504(1):36–42

Demonstration and characterization of zeta (zeta), a growth-related opioid receptor, in a neuroblastoma cell line. Zagon IS, et al. **Brain Res** 1990 Mar 19;511(2):181–6

Endogenous opioids and neural cancer: an immunoelectron microscopic study. Zagon IS. **Brain Res Bull** 1989 Jun; 22(6):1023–9

Intrathecal porcine calcitonin enhances the release of [Met5]enkephalin-like material from the rat spinal cord. Collin E, et al. **Eur J Pharmacol** 1989 Sep 13;168(2):201–8

Studies on the effect of SCH-34826 and thiorphan on [Met5]enkephalin levels and release in rat spinal cord. Yaksh TL, et al. **Eur J Pharmacol** 1989 Aug 29; 167(3):367–73

A novel endocrine cell type in the guinea-pig gastric mucosa: cellular source of pro-enkephalin-derived peptides. A histochemical, immunohistochemical, and electron microscopical characterization. Cetin Y. **Histochemistry** 1990;94(1):31–44

In vitro interactions of opioid peptides with phospholipids. IV. Methionine enkephalin versus leucine enkephalin. D'Alagni M, et al. **Int J Pept Protein Res** 1990 Apr; 35(4):328–35

The 'marginal division': a new subdivision in the neostriatum of the rat. Shu SY, et al. **J Chem Neuroanat** 1988 May-Jun; 1(3):147–63

Localization of enkephalinergic neurons in the dorsolateral pontine tegmentum projecting to the spinal cord of the cat. Reddy VK, et al. **J Comp Neurol** 1990 Jan 8; 291(2):195–202

Development of daily variations in methionine enkephalin within rabbit brainstem regions. Gingras JL, et al. **J Dev Physiol** 1989 Jun;11(6):335–41

Calcium antagonists inhibit met-enkephalin immunoreactive material release: in vitro and ex vivo experiments. Govoni S, et al. **J Neural Transm Gen Sect** 1990;80(1):1–8

Brainstem sites differentially sensitive to beta-endorphin and morphine for analgesia and release of met-enkephalin in anesthetized rats. Tseng LL, et al. **J Pharmacol Exp Ther** 1990 Jun;253(3):930–7

Effects of phentolamine and propranolol on the changes of pain threshold and contents of MEK and LEK in rat brain after EA. Wang YJ, et al. **J Tradit Chin Med** 1989 Sep; 9(3):210–4

Methionine-enkephalin and beta-endorphin levels in spleen and thymus gland of morphine tolerant-dependent and abstinent rats. Bhargava HN, et al. **Life Sci** 1989; 45(26):2529–37

Developmental and regional alteration of methionine enkephalin-like immunoreactivity in seizure-susceptible E1 mouse brain. Onishi H, et al. **Neurochem Res** 1990 Jan; 15(1):83–7

Intracerebroventricular administration of beta-endorphin releases immunoreactive met-enkephalin from the spinal cord in cats, guinea pigs and mice. Tseng LL. **Neuropharmacology** 1989 Dec;28(12):1333–9

Subcutaneous formalin induces a segmental release of Met-enkephalin-like material from the rat spinal cord. Bourgoin S, et al. **Pain** 1990 Jun;41(3):323–9

The developmental pattern of met-enkephalin innervation is altered in animals perinatally exposed to morphine. Tenconi B, et al. **Pharmacol Res** 1989 Nov-Dec;21 Suppl 1:61–2

[Effects of monoamine oxidase B inhibitor and MPTP (1-methyl-4-phenyl-1,2,3,6-tetra-hydropyridine) on enkephalin levels in mice] Sheng J. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Apr; 23(2):104–6, 127–8 (Eng. Abstr.) **(Chi)**

[Interaction between bradykinin and enkephalins in rat dental pulp] Wei EQ, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 Nov;10(6):500–3 (Eng. Abstr.) **(Chi)**

[Dynamics of met-enkephalin level in the adrenal glands and plasma of rats during acute alcoholic intoxication] Beliaev NA, et al. **Vopr Med Khim** 1990 May-Jun;36(3):86–7 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effects of various agents on ileal postprandial motor patterns and transit of chyme in dogs. Siegle ML, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):G698–703

Methionine-enkephalin stimulates in vitro proliferation of human peripheral lymphocytes via delta-opioid receptors. Hucklebridge FH, et al. **Brain Behav Immun** 1989 Jun; 3(2):183–9

Modulation of superoxide anion release from human polymorphonuclear cells by Met- and Leu-enkephalin. Marotti T, et al. **Brain Behav Immun** 1990 Mar;4(1):13–22

Effect of morphine on Na+,K(+)-ATPase from homogenate of synaptosomes and of synaptic membrane of rat cerebral cortex. Nishikawa T, et al. **Brain Res** 1990 Feb 26;510(1):92–6

Effects of single and simultaneous combined nanoinjections of Met-enkephalin into rat midbrain and medulla on activity of differentially nociresponsive ventral medullary neurons. Rosenfeld JP, et al. **Brain Res** 1990 Feb 5; 508(2):199–209

Effects of ACTH, epinephrine and Met-enkephalin on brain beta-endorphin-like immunoreactivity, and of ACTH, epinephrine, Met-enkephalin and naloxone on retention, in normal and in protein-malnourished rats. Perry ML, et al. **Braz J Med Biol Res** 1990;23(1):65–72

Methionine-enkephalin alteration of mitogenic and mixed lymphocyte culture responses in zinc-deficient mice. Li G, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 May; 10(3):216–21

Enhancement of interleukin-1 production in mouse peritoneal macrophages by methionine-enkephalin. Yang SX, et al. **Chung Kuo Yao Li Hsueh Pao** 1989 May;10(3):266–70

Biologically active conformation of [Met5]- and [Leu5]enkephalin on delta opioid receptor. Gašparík J. **Eur J Pharmacol** 1989 Dec 5;172(6):417–23

Stimulation of human peripheral lymphocytes by methionine enkephalin and delta-selective opioid analogues. Hucklebridge FH, et al. **Immunopharmacology** 1990 Mar-Apr;19(2):87–91

Antitumor activity of enkephalin analogues in inhibiting PYB6 tumor growth in mice and immunological effects of methionine enkephalinamide. Srisuchart B, et al. **Int J Immunopharmacol** 1989;11(5):487–500

Effects of beta-endorphin, met-enkephalin, and dynorphin A on basal and stimulated insulin secretion in the mouse. Ahrén B. **Int J Pancreatol** 1989 Sep;5(2):165–78

Different spinal effects of opioid agonists on spinal and spino-bulbo-spinal reflexes in rats. Suzuki T, et al. **J Neural Transm Gen Sect** 1990;79(1-2):1–9

Wet-dog shakes in amygdaloid methionine-enkephalin kindling and electrical kindling. Tanaka T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):567–8

Opioid-dependent growth of glial cultures: suppression of astrocyte DNA synthesis by met-enkephalin. Stiene-Martin A, et al. **Life Sci** 1990;46(2):91–8

The influence of methionine-5-enkephalin on calcium uptake by the bovine aortic media. Kokkas B, et al. **Methods Find Exp Clin Pharmacol** 1990 Apr;12(3):181–4

Differential effects of methionine5-enkephalin on hippocampal pyramidal cells and interneurons. Pang K, et al. **Neuropharmacology** 1989 Nov;28(11):1175–81

Opiate-like peptides. Part XII. Synthesis and some biological properties of Met-enkephalin analogues modified in position 2 by D-alanyl residue in positions 2 and 4 by 3-(2-naphthyl)-D-alanyl residue. Rolka K, et al. **Pol J Pharmacol Pharm** 1989 Mar-Apr;41(2):147–56

Cardiovascular action of methionine enkephalin (met-enkephalin) in conscious and anesthetized rabbits. Rhee HM, et al. **Prog Clin Biol Res** 1990;328:291–4

Effects of met-enkephalin on the adrenocorticotropic cells of the rat pituitary. del Valle-Soto ME, et al. **Z Mikrosk Anat Forsch** 1990;104(1):161–9

[The sensitivity of the blood lymphocytes in stomach cancer patients to met-enkephalin, dopamine and serotonin] Kharkevich DD, et al. **Eksp Onkol** 1990;12(2):66–8 (Eng. Abstr.) **(Rus)**

[Effects of met-enkephalin on the testis. III. Histoenzymatic study] López-Muñiz A, et al. **Arch Esp Urol** 1989 Nov-Dec;42(9):841–6 (Eng. Abstr.) **(Spa)**

[Effects of met-enkephalin on the testis. I. Structural study] López-Muñiz A, et al. **Arch Esp Urol** 1989 Nov-Dec; 42(9):829–34 (Eng. Abstr.) **(Spa)**

[Effects of met-enkephalin on the testis. II. Histochemical study] López-Muñiz A, et al. **Arch Esp Urol** 1989 Nov-Dec;42(9):835–40 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Met- and leu-enkephalins inhibit rat cortical neurons intracellularly recorded in vivo while morphine excites them: evidence for naloxone-sensitive and naloxone-insensitive effects. Stanzione P, et al. **Exp Brain Res** 1989;77(2):302–8

Effect of met-enkephalin and met-enkephalin-Arg6-Phe7 on bombesin-like immunoreactivity (BLI), somatostatin and gastrin secretion from the perfused rat stomach. Madaus S, et al. **Hepatogastroenterology** 1990 Apr;37(2):201–3

Effects of met-enkephalin on the mechanical activity and distribution of met-enkephalin-like immunoreactivity in the cat small intestine. Radomirov R, et al. **Peptides** 1990 May-Jun;11(3):417–25

Lack of interaction between cholecystokinin and opioid systems in the central control of breathing. Diersen M, et al. **Rev Esp Fisiol** 1989;45 Suppl:185–90

[The significance of endogenous peptides for dental pulp pain] Göres M, et al. **Zahn Mund Kieferheilkd** 1989; 77(6):531–6 (44 ref.) (Eng. Abstr.) **(Ger)**

SECRETION

The effects of hypoxia on (methionine) enkephalin peptide and catecholamine release in fetal sheep. Martinez AM, et al. **Pediatr Res** 1990 Jan;27(1):52–5

THERAPEUTIC USE

Hormone reduces levels of AIDS virus in blood [news] **Oncology (Williston Park)** 1989 Oct;3(10):19

ENKEPHALIN RECEPTORS see **RECEPTORS, ENDORPHIN**

ENKEPHALINASE see **MEMBRANE METALLO-ENDOPEPTIDASE**

ENKEPHALINS

Synthesis and conformational analysis of a series of galactosyl enkephalin analogues showing high analgesic activity. Torres JL, et al. **EMBO J** 1989 Oct;8(10):2925–32

Conformational analysis of enkephalin analogs containing a disulfide bond. Models for delta- and mu-receptor opioid agonists [published erratum appears in Int J Pept Protein Res 1989 Oct;34(4):352] Froimowitz M, et al. **Int J Pept Protein Res** 1989 Aug;34(2):88–96

Secondary structure characteristics of proenkephalin peptides E, B, and F. Hiddinga HJ, et al. **Neurochem Res** 1990 Apr; 15(4):393–9

A prediction of tertiary structures of peptide by the Monte Carlo simulated annealing method. Kawai H, et al. **Protein Eng** 1989 Nov;3(2):85–94

[Conformation of D-Orn2-containing cycloanalogs of enkephalins in dimethylsulfoxide solution] Shenderevich MD, et al. **Bioorg Khim** 1990 Jan;16(1):21–33 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Tolerance to delta- but not mu-opioid receptors in the spinal cord attenuates inhibition of the tail-flick response induced by beta-endorphin administered intracerebroventricularly in mice. Suh HH, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):807–13

ANALYSIS

Enkephalin analogues containing beta-naphthylalanine at the fourth position. Mierke DF, et al. **Biopolymers** 1990 Jan; 29(1):179–96

Enkephalin and neuropeptide Y in large cerebral arteries of the pig after ischemia and reserpine. Thureson-Klein A, et al. **Blood Vessels** 1989;26(3):177–84

Nerve fibers showing immunoreactivities for proenkephalin A-derived peptides in the lacrimal glands of the guinea pig. Lehtosalo J, et al. **Graefes Arch Clin Exp Ophthalmol** 1989;227(5):455–8

Immunocytochemical study of the relations of acetylcholinesterase, enkephalin-, substance P-, choline acetyltransferase- and calcitonin gene-related peptide-immunoreactive structures in the ventral horn of rat spinal cord. Hietanen M, et al. **Histochemistry** 1990; 93(5):473–7

Nuclear origin of thalamic afferents of the ventral striatum determines their relation to patch/matrix configurations in enkephalin-immunoreactivity in the rat. Berendse HW, et al. **J Chem Neuroanat** 1988 Jan-Feb;1(1):3–10

Prodynorphin peptide distribution in the forebrain of the Syrian hamster and rat: a comparative study with antisera

against dynorphin A, dynorphin B, and the C-terminus of the prodynorphin precursor molecule. Neal CR Jr, et al. **J Comp Neurol** 1989 Oct 15;288(3):353–86

Adrenal growth and ontogeny of adrenal substance P, enkephalins and catecholamines in the ovine fetus. Cheung CY. **J Dev Physiol** 1989 Aug;12(2):77–84

Ultrastructural identification of neuropeptides in the central nervous system. Maley BE. **J Electron Microsc Tech** 1990 May;15(1):67–80 (107 ref.)

Immunocytochemical use of internally radiolabelled monoclonal antibodies against tyrosine hydroxylase, substance P and enkephalin. Elliott PJ, et al. **J Immunol Methods** 1989 Sep 29;123(1):141–6

Detection of synenkephalin, the amino-terminal portion of proenkephalin, by antisera directed against its carboxyl terminus. Stell WK, et al. **J Neurochem** 1990 Feb; 54(2):434–43

Developmental patterns for pancreatic opioids in the rat. Powell AM, et al. **Pancreas** 1989;4(6):694–701

Are NPY and enkephalins costored in the same noradrenergic neurons and vesicles? Kong JY, et al. **Peptides** 1990 May–Jun;11(3):565–75

Comparison of synenkephalin and methionine enkephalin immunocytochemistry in rat brain. Song DD, et al. **Peptides** 1989 Nov–Dec;10(6):1239–46

Dopamine receptor gene expression by enkephalin neurons in rat forebrain. Le Moine C, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):230–4

Identification and characterization of N-glycosylated and phosphorylated variants of proenkephalin A-derived peptides in bovine adrenal medulla, spinal cord and ileum. Watkinson A, et al. **Regul Pept** 1989 Dec;26(3):313–22

Age-dependency and regional distribution of enkephalinergic nerves in human prostate. Jungblut T, et al. **Urol Int** 1989; 44(6):352–6

Augmented enkephalin-immunoreactivity in adrenaline-producing phaeochromocytomas. Kodama T, et al. **Virchows Arch [A]** 1990;416(5):417–22

[Enkephalin-like immunoreactivity in Leydig cell tumor] Descheemaeker T, et al. **Ann Endocrinol (Paris)** 1989; 50(6):513–6 (Eng. Abstr.) **(Fre)**

ANTAGONISTS & INHIBITORS

[Antiopiate effects of cholecystokinin octapeptide in the regulation of pain sensation and an analysis of its mechanism] Wang XJ. **Sheng Li Ke Hsueh Chin Chan** 1989 Oct;20(4):354–6 **(Chi)**

BIOSYNTHESIS

Chronic exposure to opioid agonists and antagonists affects prodynorphin gene expression. Romualdi P, et al. **Acta Physiol Hung** 1990;75 Suppl:247–8

Expression of proenkephalin A mRNA and enkephalin-containing peptides in cultured fibroblasts. Rosen H, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):722–8

Striatal preprotachykinin and preproenkephalin mRNA levels and the levels of nigral substance P and pallidal Met5-enkephalin depend on corticostriatal axons that use the excitatory amino acid neurotransmitters aspartate and glutamate: quantitative radioimmunocytochemical and in situ hybridization evidence. Somers DL, et al. **Brain Res Mol Brain Res** 1990 Jul;8(2):143–58

BLOOD

Enkephalin-binding protein in human blood. Nakajima S, et al. **Biochem Int** 1989 Sep;19(3):529–36

Mitogenic activation of the human lymphocytes induce the release of proenkephalin derived peptides. Padrós MR, et al. **Life Sci** 1989;45(19):1805–11

Hydrolysis and protection from hydrolysis of enkephalins in human plasma. Marini M, et al. **Neurochem Res** 1990 Jan;15(1):61–7

[The study of degradation of peptides in human plasma and serum by the ERIAD high pressure liquid chromatography-mass spectrometry method] Mirgorodskaia OA, et al. **Biokhimiia** 1989 Jul;54(7):1186–92 (Eng. Abstr.) **(Rus)**

[Enkephalins and endorphins in unstable stenocardia] Matsak VV. **Vrach Delo** 1990 Jan;(1):59–61 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Opioid-like activity in the cerebrospinal fluid of pain patients treated by electroacupuncture. Ho WK, et al. **Neuropharmacology** 1989 Sep;28(9):961–6

GENETICS

Morphine affects prodynorphin gene expression in some areas of rat brain. Romualdi P, et al. **Ann Ist Super Sanita** 1990; 26(1):43–6

Cleavage of recombinant enkephalin precursor by endoproteolytic activity in bovine chromaffin granules. Hook VY, et al. **Biochem Biophys Res Commun** 1990 Mar 16;167(2):722–30

Expression of proenkephalin A mRNA and enkephalin-containing peptides in cultured fibroblasts. Rosen H, et al. **Biochem Biophys Res Commun** 1990 Sep 14;171(2):722–8

Estradiol induction of proenkephalin messenger RNA in hypothalamus: dose-response and relation to reproductive behavior in the female rat. Lauber AH, et al. **Brain Res Mol Brain Res** 1990 Jun;8(1):47–54

Neuropeptide gene expression and neural activity: assessing a working hypothesis in nucleus caudalis and dorsal horn neurons expressing preproenkephalin and preprodynorphin. Uhl GR, et al. **Cell Mol Neurobiol** 1990 Mar;10(1):73–98 (190 ref.)

Proenkephalin A is expressed in mesodermal lineages during organogenesis. Keshet E, et al. **EMBO J** 1989 Oct; 8(10):2917–23

The regulation of proenkephalin expression in a distinct population of glial cells. Melner MH, et al. **EMBO J** 1990 Mar;9(3):791–6

Glucocorticoid regulation of preproenkephalin messenger ribonucleic acid in the rat striatum. Chao HM, et al. **Endocrinology** 1990 Jun;126(6):3124–30

The cholecystokinin gene is abundantly co-expressed with gastrin-releasing peptide, enkephalin and neuropeptide Y genes in a clonal human neuroepithelioma cell line. Verbeeck MA, et al. **FEBS Lett** 1990 Jul 30;268(1):88–90

Procholecystokinin and proenkephalin A mRNA expression is modulated by cyclic AMP and noradrenaline. Monstein HJ, et al. **J Mol Endocrinol** 1990 Feb;4(1):37–41

Down-regulation of proopiomelanocortin synthesis and beta-endorphin utilization in hypothalamus of morphine-tolerant rats. Mocchetti I, et al. **J Mol Neurosci** 1989;1(1):33–8

Localization of striatal opioid gene expression, and its modulation by the mesostriatal dopamine pathway: an in situ hybridization study. Morris BJ, et al. **J Mol Neurosci** 1989;1(1):9–18

Effect of chronic typical and atypical neuroleptic treatment on proenkephalin mRNA levels in the striatum and nucleus accumbens of the rat. Angulo JA, et al. **J Neurochem** 1990 Jun;54(6):1889–94

Chronic naltrexone treatment increases expression of preproenkephalin and preprotachykinin mRNA in discrete brain regions. Tempel A, et al. **J Neurosci** 1990 Mar; 10(3):741–7

The effect of depolarization on expression of the human proenkephalin gene is synergistic with cAMP and dependent upon a cAMP-inducible enhancer. Van Nguyen T, et al. **J Neurosci** 1990 Aug;10(8):2825–33

Increases in rat striatal preproenkephalin mRNA levels following chronic treatment with the depot neuroleptic, haloperidol decanoate. Petrack B, et al. **Life Sci** 1990; 46(10):687–91

Translational control of germ cell-expressed mRNA imposed by alternative splicing: opioid peptide gene expression in rat testis. Garrett JE, et al. **Mol Cell Biol** 1989 Oct; 9(10):4381–9

Transcription of the rat and mouse proenkephalin genes is initiated at distinct sites in spermatogenic and somatic cells. Kilpatrick DL, et al. **Mol Cell Biol** 1990 Jul;10(7):3717–26

Regulated expression of proenkephalin A during ontogenic development of mesenchymal derivative tissues. Polakiewicz RD, et al. **Mol Cell Biol** 1990 Feb;10(2):736–42

Characterization of the rat prodynorphin gene. Douglass J, et al. **Mol Endocrinol** 1989 Dec;3(12):2070–8

A spermatozoa-associated factor regulates proenkephalin gene expression in the rat epididymis. Garrett JE, et al. **Mol Endocrinol** 1990 Jan;4(1):108–18

Human chorionic gonadotropin regulates expression of the proenkephalin gene in adult rat Leydig cells. Garrett JE, et al. **Mol Endocrinol** 1989 Dec;3(12):2093–100

Widespread organ expression of the rat proenkephalin gene during early postnatal development. Kew D, et al. **Mol Endocrinol** 1990 Feb;4(2):337–40

Local regulation within the female reproductive system and upon embryonic implantation: identification of cells expressing proenkephalin A. Rosen H, et al. **Mol Endocrinol** 1990 Jan;4(1):146–54

Proenkephalin messenger RNA is expressed both in the rat anterior and posterior pituitary. Schäfer MK, et al. **Neuroendocrinology** 1990 Apr;51(4):444–8

Perforant path kindling induces differential alterations in the mRNA levels coding for prodynorphin and proenkephalin in the rat hippocampus. Moneta ME, et al. **Neurosci Lett** 1990 Mar 14;110(3):273–8

CpG methylation inhibits proenkephalin gene expression and binding of the transcription factor AP-2. Comb M, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3975–82

Dinucleotide repeat polymorphism at the PENK locus. Weber JL, et al. **Nucleic Acids Res** 1990 Apr 25;18(8):2200

Differential effects of estrogen and antiestrogen on expression of prodynorphin gene in the rat hypothalamus and pituitary. Spampinato S, et al. **Pharmacol Res** 1989 Nov–Dec;21 Suppl 1:139–40

Proenkephalin gene expression in cultured chromaffin cells is regulated at the transcriptional level. Farin CJ, et al. **Prog Clin Biol Res** 1990;328:239–42

Morphine increases proenkephalin gene expression in the adrenal medulla by a central mechanism. Reimer S, et al. **Prog Clin Biol Res** 1990;328:215–8

Regulation of proenkephalin by Fos and Jun. Sonnenberg JL, et al. **Science** 1989 Dec 22;246(4937):1622–5

[Structure and regulation of the expression of proenkephalin A and B genes and processing of the precursors] Nakai Y. **Nippon Rinsho** 1989 Oct;47(10):2181–6 **(Jpn)**

METABOLISM

Metabolism of enkephalin in stomach wall of rats. Bunnett NW, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):G143–51

Interaction of S-activated enkephalin analogs with opiate receptors. Kodama H, et al. **Biochem Int** 1989 Dec; 19(6):1159–64

Enkephalins and exorphins oxidation by tyrosinase. Rosei MA, et al. **Biochem Int** 1989 Dec;19(6):1183–93

Delta opioid receptor selectivity induced by conformational constraints in linear enkephalin-related peptides: 1H 400-MHz NMR study and theoretical calculations. Belleney J, et al. **Biochemistry** 1989 Sep 5;28(18):7392–400

Mu-opiate receptor binding in the medial preoptic area is cyclical and sexually dimorphic. Hammer RP Jr. **Brain Res** 1990 May 7;515(1–2):187–92

Prenatal stress has long-term effects on brain opiate receptors. Insel TR, et al. **Brain Res** 1990 Mar 12; 511(1):93–7

Differential modulation of striatonigral dynorphin and enkephalin by dopamine receptor subtypes. Jiang HK, et al. **Brain Res** 1990 Jan 15;507(1):57–64

The colocalization of substance P and prodynorphin immunoreactivity in neurons of the medial preoptic area, bed nucleus of the stria terminalis and medial nucleus of the amygdala of the Syrian hamster. Neal CR Jr, et al. **Brain Res** 1989 Sep 4;496(1–2):1–13

Disappearance of the mu-opiate receptor patches in the rat neostriatum following lesioning of the ipsilateral nigrostriatal dopamine pathway with 1-methyl-4-phenylpyridinium ion (MPP+): restoration by embryonic nigral dopamine grafts. Sirinathsinghji DJ, et al. **Brain Res** 1989 Dec 11;504(1):115–20

Coordinate and differential regulation of phenylethanolamine N-methyltransferase, tyrosine hydroxylase and proenkephalin mRNAs by neural and hormonal mechanisms in cultured bovine adrenal medullary cells. Stachowiak MK, et al. **Brain Res** 1990 Mar 5;510(2):277–88

Coexistence of calcitonin gene-related peptide and enkephalin in single neurons of the lateral superior olivary nucleus of the guinea pig that project to the cochlea as lateral olivocochlear system. Tohyama Y, et al. **Brain Res** 1990 May 7;515(1–2):312–4

Regulation of striatonigral prodynorphin peptides by dopaminergic agents. Trujillo KA, et al. **Brain Res** 1990 Jun 4;518(1–2):244–56

Immunocytochemical study of enkephalin-like cell bodies in the thalamus of the rat. Coveñas R, et al. **Brain Res Bull** 1989 Oct–Nov;23(4–5):277–81

Ontogenesis of cell surface mu-opioid ([3H]DAGO) binding sites in rat hypothalamus and ex vivo determination of blood-brain barrier penetration by opioid peptide FK 33-824. Landymore KM, et al. **Brain Res Dev Brain Res** 1990 Jul 1;54(2):169–76

Developmental expression of proenkephalin mRNA and peptides in rat striatum. Tecott LH, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):75–86

Changes of proenkephalin and prodynorphin mRNAs and related peptides in rat brain during the development of deep prepyriform cortex kindling. Lee PH, et al. **Brain Res Mol Brain Res** 1989 Dec;6(4):263–73

Preproenkephalin mRNA expression in nucleus caudalis neurons is enhanced by trigeminal stimulation. Nishimori T, et al. **Brain Res Mol Brain Res** 1989 Nov;6(2–3):203–10

Perforant path stimulation differentially alters prodynorphin mRNA and proenkephalin mRNA levels in the entorhinal cortex-hippocampal region. Xie CW, et al. **Brain Res Mol Brain Res** 1990 Apr;7(3):199–205

Immunohistochemistry of opioid peptides in the guinea pig endocrine pancreas. Cetin Y. **Cell Tissue Res** 1990 Feb; 259(2):313–9

Co-localization of arginine vasopressin- and enkephalin-like immunoreactivities in nerve cells of the rat hypothalamus. Sakanaka M, et al. **Cell Tissue Res** 1990 May;260(3):549–54

A neuropeptide precursor in cerebellum: proenkephalin exists in subpopulations of both neurons and astrocytes. Spruce BA, et al. **EMBO J** 1990 Jun;9(6):1787–95

The molecular weight profile of enkephalin-containing peptides in the sheep adrenal gland changes during development. Coulter CL, et al. **Endocrinology** 1990 Jul; 127(1):330–6

Cleavage of proenkephalin by a chromaffin granule processing enzyme. Lindberg I, et al. **Endocrinology** 1990 Jan;126(1):480–7

Binding in vivo of selective mu and delta opioid receptor agonists: opioid receptor occupancy by endogenous enkephalins. Meucci E, et al. **Eur J Pharmacol** 1989 Nov 21;171(2–3):167–78

An attempt to structurally convert mu-selective morphine toward delta-receptor binding: dimerization based on enkephalin conformation. Yara H, et al. **Eur J Pharmacol** 1990 Jun 12;188(6):359–68

Developmental expression of proenkephalin A mRNA and phenylethanolamine N-methyltransferase mRNA in foetal sheep adrenal medulla. Wan DC, et al. **Int J Dev Neurosci** 1989;7(5):489–98

Conformational features responsible for binding of cyclic analogues of enkephalin to opioid receptors. I. Low-energy peptide backbone conformers of analogues containing Phe4. Nikiforovich GV, et al. **Int J Pept Protein Res** 1990 Jul;36(1):67–78

Neuronal and adrenal enkephalins and catecholamines in response to acute CNS ischemia and reserpine in pig. Klein RL, et al. **J Auton Nerv Syst** 1990 Apr;30(1):37–62

Proenkephalin system in human polymorphonuclear cells.

Production and release of a novel 1.0-kD peptide derived from synenkephalin. Vindrola O, et al. **J Clin Invest** 1990 Aug;86(2):531–7

Interrelationship of the distribution of neuropeptides and tyrosine hydroxylase immunoreactivity in the human substantia Nigra. Haber SN, et al. **J Comp Neurol** 1989 Dec 1;290(1):53–68

Postnatal development of preproenkephalin mRNA containing neurons in the rat lower brainstem. Morita Y, et al. **J Comp Neurol** 1990 Feb 8;292(2):193–213

Coexistence of corticotropin–releasing factor and enkephalin in the paraventricular nucleus of the rat. Pretel S, et al. **J Comp Neurol** 1990 Apr 8;294(2):192–201

Origins and terminations of bulbospinal axons that contain serotonin and either enkephalin or substance–P in the North American opossum. Reddy VK, et al. **J Comp Neurol** 1990 Apr 1;294(1):96–108

Enkephalin–immunoreactive neuronal projections from the medulla oblongata to the intermediolateral cell column: relationship to substance P–immunoreactive neurons. Sasek CA, et al. **J Comp Neurol** 1989 Sep 22;287(4):484–94

Inhibin beta, somatostatin, and enkephalin immunoreactivities coexist in caudal medullary neurons that project to the paraventricular nucleus of the hypothalamus. Sawchenko PE, et al. **J Comp Neurol** 1990 Jan 8;291(2):269–80

Compartmental organization of the ventral striatum of the rat: immunohistochemical distribution of enkephalin, substance P, dopamine, and calcium–binding protein. Voorn P, et al. **J Comp Neurol** 1989 Nov 8;289(2):189–201

Regulated expression of proenkephalin A in normal lymphocytes. Rosen H, et al. **J Immunol** 1989 Dec 1; 143(11):3703–7

Binding characteristics of a series of dimeric tripeptide enkephalins for delta opiate receptors in rat brain and NG108–15 cells. Shimohigashi Y, et al. **J Mol Recognit** 1989 Nov;2(3):127–31

Immunocytochemical colocalization of progestin receptors and beta–endorphin or enkephalin in the hypothalamus of female guinea pigs. Olster DH, et al. **J Neurobiol** 1990 Jul; 21(5):768–80

Comparison of the soluble and membrane–bound forms of the puromycin–sensitive enkephalin–degrading aminopeptidases from rat. Dyer SH, et al. **J Neurochem** 1990 Feb;54(2):547–54

Haloperidol–induced increase in striatal concentration of the tripeptide, Tyr–Gly–Gly, provides an index of increased enkephalin release in vivo. Houdi AA, et al. **J Neurochem** 1990 Apr;54(4):1360–6

Histochemical visualization of neutral endopeptidase–24.11 (enkephalinase) activity in rat brain: cellular localization and codistribution with enkephalins in the globus pallidus. Back SA, et al. **J Neurosci** 1989 Dec;9(12):4439–55

Pharmacological and molecular properties of opioid binding sites synthesized in a cell–free translation system. Cabon F, et al. **J Neurosci Res** 1990 Jun;26(2):242–50

Characteristics of central binding sites for [3H] DAMGO in spontaneously hypertensive rats. Gulati A, et al. **Life Sci** 1990;47(2):159–66

[3H][D–Pen2, D–Pen5]enkephalin binding to delta opioid receptors on intact neuroblastoma–glioma (NG 108–15) hybrid cells. Knapp RJ, et al. **Life Sci** 1990;46(20):1457–63

A high affinity, highly selective ligand for the delta opioid receptor: [3H]–[D–Pen2, pCl–Phe4, d–Pen5]enkephalin. Vaughn LK, et al. **Life Sci** 1989;45(11):1001–8

Glutamate is the endogenous amino acid selectively released by rat hippocampal mossy fiber synaptosomes concomitantly with prodynorphin–derived peptides. Terrian DM, et al. **Neurochem Res** 1990 Jan;15(1):1–5

The abnormal cerebellar organization of Weaver and reeler mice does not affect the cellular distribution of three neuronal mRNAs. Wuenschell CW, et al. **Neuron** 1988 Nov;1(9):805–15

Chemoanatomic compartments in the human bed nucleus of the stria terminalis. Lesur A, et al. **Neuroscience** 1989; 32(1):181–94

Microdialysis of extracellular endogenous opioid peptides from rat brain in vivo. Maidment NT, et al. **Neuroscience** 1989;33(3):549–57

Golgi and immunocytochemical analysis of neurons in trigeminal subnucleus interpolaris: correlations with cellular localization of enkephalin. Matthews MA, et al. **Neuroscience** 1989;32(2):463–80

Development and localization of enkephalin and substance P in the nucleus of tractus solitarius in the medulla oblongata of human fetuses. Yew DT, et al. **Neuroscience** 1990;34(2):491–8

Ultrastructural localization of enkephalin–like immunoreactivity in developing rat cerebellum. Zagon IS, et al. **Neuroscience** 1990;34(2):479–89

Changes in prodynorphin peptide content following treatment with morphine or amphetamine: possible role in mechanisms of action of drug of abuse. Trujillo KA, et al. **NIDA Res Monogr** 1989;95:550–1

Substance P modulation of DAMGO binding in the brain of CXBK and Swiss–Webster mice. Krumins SA, et al. **Peptides** 1990 Mar–Apr;11(2):281–5

Changes in the processing of pro–dynorphin end products in the substantia nigra during neonatal development. Sei CA, et al. **Peptides** 1990 Jan–Feb;11(1):89–94

Differential accumulation of catecholamines, proenkephalin–and chromogranin A–derived peptides in the medium after chronic nicotine stimulation of cultured bovine adrenal chromaffin cells. Watkinson A, et al. **Peptides** 1990 May–Jun;11(3):435–41

The use of (3H) DAGO to label projections of thin primary afferent fibres at the superficial dorsal horn level of the rat spinal cord. Besse D, et al. **Prog Clin Biol Res** 1990; 328:179–82

Substance P modulation of [3H]DAGO binding in the brain of Swiss–Webster and CXBK (mu opioid receptor deficient) mice. Krumins SA, et al. **Prog Clin Biol Res** 1990; 328:149–52

Is cathepsin B an enkephalin processing enzyme in the tooth pulp? Kudo T, et al. **Prog Clin Biol Res** 1990;328:271–4

Adaptative changes in two indices of enkephalin neuron activity in mouse striatum following GABAergic stimulation. Llorens–Cortes C, et al. **Prog Clin Biol Res** 1990;328:203–6

Naloxone–induced withdrawal syndrome after administration of selective opioid agonists or after activation of the endogenous enkephalinergic system. Maldonado R, et al. **Prog Clin Biol Res** 1990;328:531–4

The effects of nigrostriatal 6–hydroxydopamine lesions on dopamine D2 receptor mRNA and opioid systems. Mansour A, et al. **Prog Clin Biol Res** 1990;328:227–30

Tyrosine hydroxylase and enkephalin in the rostral ventrolateral medulla: major synaptic contacts from opioid terminals on catecholaminergic neurons. Milner TA, et al. **Prog Clin Biol Res** 1990;328:195–8

Identification of prodynorphin and proenkephalin mRNA expressing cells in the neurointermediate lobe of the rat pituitary gland. Schafer MK, et al. **Prog Clin Biol Res** 1990; 328:231–4

Prodynorphin messenger RNA expression in the rat anterior pituitary is regulated by estrogen. Spampinato S, et al. **Prog Clin Biol Res** 1990;328:211–4

Pharmacological regulation of striatal prodynorphin peptides. Trujillo KA, et al. **Prog Clin Biol Res** 1990;328:223–6

Coexistence of corticotropin releasing factor and enkephalin in cerebellar afferent systems. Cummings S, et al. **Synapse** 1990;5(3):167–74

Synaptic substrates for enkephalinergic and serotoninergic interactions with dental primary afferent terminals in trigeminal subnucleus interpolaris: an immunocytochemical study using peroxidase and colloidal gold. Matthews MA, et al. **Synapse** 1989;4(3):175–95

Is there an interaction between catecholamines and enkephalins in the inferior mesenteric ganglion of the cat? Polónyi J, et al. **Z Mikrosk Anat Forsch** 1989;103(4):675–9

[Nerve tissue distribution and physiologic role of endogenous opioid peptides and their receptors—POMC–, proenkephalin A, proenkephalin B– derived opioid peptides and kyotorphin] Yamada T, et al. **Nippon Rinsho** 1990 May; 48(5):1042–52 **(Jpn)**

PHARMACOKINETICS

Aging alters opiate inhibition of potassium (K+)-stimulated dopamine release from the corpus striatum of male rats. Laping NJ, et al. **Neurobiol Aging** 1990 Jul–Aug; 11(4):395–9

PHARMACOLOGY

mu–Opioid peptide modulation of cardiovascular and sympathoadrenal responses to stress. Marson L, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R901–8

Effects of mu–opioid receptor agonists on circulatory responses to simulated haemorrhage in conscious rabbits. Evans RG, et al. **Br J Pharmacol** 1990 Jul;100(3):421–6

Stress–induced tolerance to delta receptor agonist DPDPE and selectivity of the irreversible delta–ligand, DALCE. Calcagnetti DJ, et al. **Brain Res** 1990 Feb 19;509(2):205–12

Opioid peptides (DAGO–enkephalin, dynorphin A(1–13), BAM 22P) microinjected into the rat brainstem: comparison of their antinociceptive effect and their effect on neuronal firing in the rostral ventromedial medulla. Fang FG, et al. **Brain Res** 1989 Oct 30;501(1):116–28

Opioids act at mu–receptors to hyperpolarize arcuate neurons via an inwardly rectifying potassium conductance. Loose MD, et al. **Brain Res** 1990 Apr 9;513(1):15–23

Kappa– and delta–opioid agonists synergize to produce potent analgesia. Miaskowski C, et al. **Brain Res** 1990 Feb 12;509(1):165–8

Enkephalin prevents CCK–induced enhancement of amphetamine–induced locomotor stereotypy. Mueller K, et al. **Brain Res** 1990 Apr 9;513(1):119–24

Intrathecal administration of delta receptor agonists in the urethane anesthetized rat provokes an increase in arterial pressure via a non–opioid mechanism. Rochford J, et al. **Brain Res** 1990 Apr 2;512(2):259–68

Opioids can enhance and inhibit the electrically evoked release of methionine–enkephalin. Xu H, et al. **Brain Res** 1989 Dec 11;504(1):36–42

Ontogeny of mu–, delta– and kappa–opioid receptors mediating inhibition of neurotransmitter release and adenylate cyclase activity in rat brain. De Vries TJ, et al. **Brain Res Dev Brain Res** 1990 Jun 1;54(1):63–9

Hemodynamic responses of conscious rats following intrathecal injections of prodynorphin–derived opioids: independence of action of intrathecal arginine vasopressin. Thornhill JA, et al. **Can J Physiol Pharmacol** 1990 Feb; 68(2):174–82

Selective effects of [D–Ser2(O–t–butyl),Leu5]enkephalyl–Thr6 and [D–Ser2(O–t–butyl),Leu5]enkephalyl–Thr6 (O–t–butyl), two new enkephalin analogues, on neurotransmitter release and adenylate cyclase in rat brain slices. De Vries TJ, et al. **Eur J Pharmacol** 1989 Nov 7;170(3):137–43

Discriminative stimulus effects of enkephalin analogs, EK–209 and EK–399, in rats. Nishida N, et al. **Eur J Pharmacol** 1989 Dec 12;174(1):71–6

Reinforcing effects of the enkephalin analogs, EK–209 and EK–399, in rats. Nishida N, et al. **Eur J Pharmacol** 1989 Aug 3;166(3):453–8

Opioids modulate interleukin–1 production and secretion by bone–marrow macrophages. Apte RN, et al. **Immunol Lett** 1990 May;24(2):141–8

Pertussis toxin–mediated ADP–ribosylation of rabbit luteal Gi uncouples enkephalin inhibition of adenylyl cyclase. Abramowitz J, et al. **Int J Biochem** 1990;22(1):31–7

Effect of calcium ion on analgesia of opioid peptides. Wang JP, et al. **Int J Neurosci** 1989 Aug;47(3–4):279–85

Neurohormones regulate T cell function. Heagy W, et al. **J Exp Med** 1990 May 1;171(5):1625–33

[D–Pen2,D–Pen5]enkephalin analogues with increased affinity and selectivity for delta opioid receptors. Toth G, et al. **J Med Chem** 1990 Jan;33(1):249–53

Effect of acute and daily neurotensin and enkephalin treatments on extracellular dopamine in the nucleus accumbens. Kalivas PW, et al. **J Neurosci** 1990 Sep; 10(9):2940–9

Selectivity for opioid receptor subtypes of enkephalin analogues in isolated smooth muscle and in the analgesic effect in mice. Watanabe J, et al. **J Pharmacobiodyn** 1989 Sep;12(9):544–8

Enkephalinergic and GABAergic modulation of motor activity in the ventral pallidum. Austin MC, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1370–7

Opioid modulation of basal intestinal fluid transport in the mouse: actions at central, but not intestinal, sites. Jiang Q, et al. **J Pharmacol Exp Ther** 1990 May;253(2):784–90

Behavioral changes induced by stressful situations: effects of enkephalins, dynorphin, and their interactions. Katoh A, et al. **J Pharmacol Exp Ther** 1990 May;253(2):600–7

Sympathoadrenal, cardiovascular and blood gas responses to highly selective mu and delta opioid peptides. Kiritsy–Roy JA, et al. **J Pharmacol Exp Ther** 1989 Dec; 251(3):1096–103

A mu–specific opioid peptide agonist increases excitability of pyramidal neurons in untreated and receptor up–regulated hippocampus. Moudy AM, et al. **J Pharmacol Exp Ther** 1989 Nov;251(2):536–42

Opioid regulation of mucosal ion transport in the mouse isolated jejunum. Sheldon RJ, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):144–51

Alteration of thermoregulatory set point with opioid agonists. Spencer RL, et al. **J Pharmacol Exp Ther** 1990 Feb; 252(2):696–705

Kappa opioid partial agonist activity of the enkephalin–like pentapeptide BW942C based on urination and in vitro studies in humans and animals. Vaupel DB, et al. **J Pharmacol Exp Ther** 1990 Jan;252(1):225–34

Role of central opiate receptor subtypes in the circulatory responses of awake rabbits to graded caval occlusions. Evans RG, et al. **J Physiol (Lond)** 1989 Dec;419:15–31

Effect of D–Ala–2–Me–Phe–4–Gly–ol–5 enkephalin on epinephrine–induced arrhythmias in the rat and the interrelationship to the parasympathetic nervous system [published erratum appears in Life Sci 1990;46(3):237] Rabkin SW. **Life Sci** 1989;45(12):1039–47

Lack of antinociceptive cross–tolerance between intracerebroventricularly administered beta–endorphin and morphine or DPDPE in mice. Suh HH, et al. **Life Sci** 1990; 46(11):759–65

Habituation and dehabituation of the spinal polysynaptic reflex responses: modification by naloxone and opiates and their anatomical correlates. Fernández–Guardiola A, et al. **Neuropeptides** 1989 Aug–Sep;14(2):115–20

Chronic blockade of D2 but not D1 dopamine receptors facilitates behavioural responses to endogenous enkephalins, protected by kelatorphan, administered in the accumbens in rats. Maldonado R, et al. **Neuropharmacology** 1990 Mar;29(3):215–23

Multi–dimensional analysis of behavior in mice treated with the delta opioid agonists DADL (D–Ala2–D–Leu5–enkephalin) and DPLPE (D–Pen2–L–Pen5–enkephalin). Ukai M, et al. **Neuropharmacology** 1989 Oct;28(10):1033–9

The influence of an enkephalin derivative, DAGO, on the behavior and activity of neurons of the neocortex and hippocampus of rabbits during the development of defensive and inhibitory conditioned reflexes. Shul'gina GI, et al. **Neurosci Behav Physiol** 1990 Mar–Apr;20(2):156–66

Phosphorylated mu–opioid receptor purified from rat brains lacks functional coupling with Gi1, a GTP–binding protein in reconstituted lipid vesicles. Harada H, et al. **Neurosci Lett** 1990 May 18;113(1):47–9

Involvement of the mu–opiate receptor in peripheral analgesia. Levine JD, et al. **Neuroscience** 1989;32(3):571–5

Novel [D–Pen2, D–Pen5]enkephalin derivatives with increased sigma receptor potency and selectivity: potential tools for opioid pharmacology. Burks TF, et al. **NIDA Res Monogr** 1989;95:291–2

A comparative analysis of monoaminergic involvement in the spinal antinociceptive action of DAMPGO and DPDPE. Spanos LJ, et al. **Pain** 1989 Dec;39(3):329–35

Centrally administered opioid peptides stimulate saccharin intake in nondeprived rats. Gosnell BA, et al. **Pharmacol Biochem Behav** 1989 Aug;33(4):805–10

Modulation of the analgesic efficacy and potency of morphine by [D-Pen2, D-Pen5]enkephalin in mice. Jiang Q, et al. **Prog Clin Biol Res** 1990;328:449–52

Antinociceptive actions of novel delta opioid receptor agonists in the mouse. Kramer TH, et al. **Prog Clin Biol Res** 1990;328:473–6

Enkephalin–dopamine interactions in behavioral arousal. Katz RJ, et al. **Prog Neuropsychopharmacol** 1979;3(4):395–8

Intranigral infusion of enkephalins elicits dyskinetic biting in rats. Liminga U, et al. **Psychopharmacology (Berl)** 1989; 99(3):299–303

Antinociceptive activity of glycosidic enkephalin analogues. Rodriguez RE, et al. **Psychopharmacology (Berl)** 1990; 101(2):222–5

DPen2–[DPen5]enkephalin, a delta opioid receptor–selective analog of [Leu]enkephalin, impairs avoidance learning in an automated shelf–jump task in rats. Weinberger SB, et al. **Regul Pept** 1989 Dec;26(3):323–9

[Effect of enkephalins and naloxone on the activity of the kallikrein–kinin system in experimental hemorrhagic shock] Kühne H, et al. **Z Med Lab Diagn** 1990;31(3):165–8 (Eng. Abstr.) (Ger)

[Effects of opioids on the development of preimplantation mouse embryos] Kaliuzhnyi AE, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):622–4 (Eng. Abstr.) (Rus)

[Peptide antibiotics based on a fragment from human preproenkephalin A] Kharchenko EP, et al. **Dokl Akad Nauk SSSR** 1989 Jul–Aug;307(1):249–52 (Rus)

PHYSIOLOGY

Physiologic role of the peripheral enkephalinergic system in regulating cardiovascular homeostasis: evidence of interactions with the renin–angiotensin and kallikrein–kinin systems. Carmignani M, et al. **Adv Exp Med Biol** 1989; 247B:477–81

Striatonigral prodynorphin: a model system for understanding opioid peptide function. Thompson LA, et al. **Ann N Y Acad Sci** 1990;579:192–203 (78 ref.)

Enkephalin–dopamine interactions in the central amygdalar nucleus during gastric stress ulcer formation in rats. Ray A, et al. **Behav Brain Res** 1990 Jan 1;36(1–2):179–83

Potent antinociceptive effects of kelatorphan (a highly efficient inhibitor of multiple enkephalin–degrading enzymes) systemically administered in normal and arthritic rats. Kayser V, et al. **Brain Res** 1989 Sep 11;497(1):94–101

Neuropeptides induce directional asymmetry in brain and spinal cord: facts and hypotheses. Bakalkin GYa. **Int J Neurosci** 1989 Sep;48(1–2):105–24 (110 ref.)

Enkephalinergic inhibition in parasympathetic ganglia of the urinary bladder of the cat. de Groat WC, et al. **J Physiol (Lond)** 1989 Jun;413:13–29

Enkephalins, their constituents and voluntary drinking of ethanol by the rat. Messiha FS. **Physiol Behav** 1989 Jul; 46(1):29–33

Morphological, biochemical, and physiological studies on insect enkephalins. Thorpe A, et al. **Prog Clin Biol Res** 1990;342:293–9 (21 ref.)

Blockade of dopamine receptors reverses the behavioral effects of endogenous enkephalins in the Nucleus caudatus but not in the Nucleus accumbens: differential involvement of delta and mu opioid receptors. Daugé V, et al. **Psychopharmacology (Berlin)** 1989;99(2):168–75

SECRETION

Nonopiate active proenkephalin–derived peptides are secreted by T helper cells. Roth KA, et al. **FASEB J** 1989 Oct;3(12):2401–7

THERAPEUTIC USE

[Effect of opiate receptor agonists on the course of hemorrhagic shock in rats] Slepushkin VD, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):667–9 (Eng. Abstr.) (Rus)

ENOLASE see **PHOSPHOPYRUVATE HYDRATASE**

ENOLASE ISOENZYMES see **PHOSPHOPYRUVATE HYDRATASE**

ENOLASE ISOZYMES see **PHOSPHOPYRUVATE HYDRATASE**

ENOPHTHALMOS

ETIOLOGY

Hemifacial atrophy: an unusual cause of enophthalmos. Hakin KN, et al. **Br J Ophthalmol** 1990 Aug;74(8):496–7

PREVENTION & CONTROL

Prevention of enophthalmos: a hypothesis. Pearl RM. **Ann Plast Surg** 1990 Aug;25(2):132–3

SURGERY

[Surgical treatment of post–traumatic enophthalmos (report of 5 cases)] Jin YT. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Sep;3(3):184–6, 238 (Eng. Abstr.) (Chi)

THERAPY

Volume augmentation of the anophthalmic orbit with cross–linked collagen (Zyplast). Cahill KV, et al. **Arch Ophthalmol** 1989 Nov;107(11):1684–6

VETERINARY

Orbital neoplasia with enophthalmos in a cat. Pentlarge VW, et al. **J Am Vet Med Assoc** 1989 Nov 1;195(9):1249–51

ENOXACIN

[Enoxacin. Microbiological, pharmacokinetic and clinical aspects (new German reports)] **Infection** 1989;17 Suppl 1:S1–38 (Ger)

ADMINISTRATION & DOSAGE

The theophylline–enoxacin interaction: II. Changes in the disposition of theophylline and its metabolites during intermittent administration of enoxacin. Rogge MC, et al. **Clin Pharmacol Ther** 1989 Oct;46(4):420–8

Enoxacin in the therapy of anal and pharyngeal gonococcal infections. Romanowski B, et al. **Sex Transm Dis** 1989 Oct–Dec;16(4):190–1

ADVERSE EFFECTS

[Photosensitivity following enoxacin and xipamide: combined phototoxic and photo–allergic reaction to enoxacin, photo–allergic reaction to xipamide with subsequent transient light reaction] Schauder S. **Z Hautkr** 1990 Mar; 65(3):253–62 (Eng. Abstr.) (Ger)

ANALYSIS

Interaction of the fluoroquinolone antimicrobial agents ciprofloxacin and enoxacin with liposomes. Bedard J, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1379–82

[Enoxacin concentrations in lung tissue] Adam D, et al. **Infection** 1989;17 Suppl 1:S21–2 (Eng. Abstr.) (Ger)

[Enoxacin concentration in bone tissue] Adam D, et al. **Infection** 1989;17 Suppl 1:S25–6 (Eng. Abstr.) (Ger)

[Enoxacin concentration in seminal fluid, in prostate secretions and in prostatic adenoma tissue following oral administration or intravenous infusion] Naber KG, et al. **Infection** 1989;17 Suppl 1:S30–6 (Eng. Abstr.) (Ger)

[Enoxacin concentrations in serum and in the wall of the colon during colorectal surgery] Wenzel M, et al. **Infection** 1989;17 Suppl 1:S27–9 (Eng. Abstr.) (Ger)

PHARMACOKINETICS

Penetration of enoxacin into middle ear effusion. Sundberg L, et al. **Acta Otolaryngol (Stockh)** 1990 May–Jun; 109(5–6):438–43

In vivo diffusion of enoxacin in healthy renal and adenomatous prostate tissue in man. Charton M, et al. **Eur Urol** 1990;17(3):252–6

A minor possibility of pharmacokinetic interaction between enoxacin and fenbufen in rats. Naora K, et al. **J Pharmacobiodyn** 1990 Feb;13(2):90–6

[Bronchopulmonary penetration of enoxacin] Loos U, et al. **Infection** 1989;17 Suppl 1:S23–4 (Eng. Abstr.) (Ger)

[Enoxacin—comparative pharmacokinetics and tissue penetration] Sörgel F, et al. **Infection** 1989;17 Suppl 1:S14–8 (8 ref.) (Eng. Abstr.) (Ger)

[A study on enoxacin concentration in human prostatic tissue] Kitamura Y, et al. **Hinyokika Kiyo** 1990 Jan;36(1):101–2 (Eng. Abstr.) (Jpn)

PHARMACOLOGY

Drug–drug interactions affecting fluoroquinolones. Wijnands GJ, et al. **Am J Med** 1989 Dec 29;87(6C):47S–51S

Theophylline dosage adjustment during enoxacin coadministration. Koup JR, et al. **Antimicrob Agents Chemother** 1990 May;34(5):803–7

In vitro effect of fluoroquinolones on theophylline metabolism in human liver microsomes. Sarkar M, et al. **Antimicrob Agents Chemother** 1990 Apr;34(4):594–9

[Susceptibility of clinically important Bacteroides species against enoxacin–metronidazole and enoxacin–clindamycin combinations] Heizmann WR, et al. **Infection** 1989;17 Suppl 1:S11–3 (Eng. Abstr.) (Ger)

[Bactericidal activity of enoxacin and ciprofloxacin in body fluids] Roos R, et al. **Infection** 1989;17 Suppl 1:S19–20 (Eng. Abstr.) (Ger)

[In–vitro activity of enoxacin: a multicenter study] Wiedemann B, et al. **Infection** 1989;17 Suppl 1:S3–5 (Eng. Abstr.) (Ger)

THERAPEUTIC USE

Multicenter, comparative study of enoxacin and ceftriaxone for treatment of uncomplicated gonorrhea. Pabst KM, et al. **Sex Transm Dis** 1989 Jul–Sep;16(3):148–51

[Antibiotic prophylaxis with enoxacin in extracorporeal shockwave lithotripsy] Knipper A, et al. **Infection** 1989;17 Suppl 1:S37–8 (Eng. Abstr.) (Ger)

[Treatment of male genital infections with enoxacin] Giorgi PM, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep; 61(3):235–41 (Eng. Abstr.) (Ita)

[Enoxacin in the treatment of bacterial prostato–cystitis] Mantovani F, et al. **Arch Ital Urol Nefrol Androl** 1989 Sep; 61(3):243–8 (Eng. Abstr.) (Ita)

[Enoxacin] Gava R, et al. **G Clin Med** 1989 Aug–Sep; 70(8–9):537–41 (Ita)

[Comparison of fluoroquinolones (norfloxacin, enoxacin, ofloxacin) in the therapy of lower urinary tract infections] Tizzani A, et al. **Minerva Urol Nefrol** 1990 Apr–Jun; 42(2):81–4 (Eng. Abstr.) (Ita)

[The therapeutic effect of enoxacin on chronic prostatitis] Katsumi T, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1985–7 (Eng. Abstr.) (Jpn)

ENOXAPARIN see **HEPARIN, LOW MOLECULAR WEIGHT**

ENOXOLONE see **GLYCYRRHETINIC ACID**

ENOYL COA HYDRATASES see under **HYDRO–LYASES**

ENOYL COA REDUCTASES see **FATTY ACID DESATURASES**

ENRICHED FOOD see **FOOD, FORTIFIED**

ENTAMOEBA

CLASSIFICATION

Suitability of the Phast system for discrimination of Entamoeba isolates by isoenzyme isoelectrofocusing. Kollaritsch H, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):211–2

GENETICS

Experimental production of new zymodemes of Entamoeba histolytica supports the hypothesis of genetic exchange. Blanc D, et al. **Trans R Soc Trop Med Hyg** 1989 Nov–Dec; 83(6):787–90

GROWTH & DEVELOPMENT

Growth studies on xenic cultures of Entamoeba gingivalis using established media. Gannon JT, et al. **Int J Parasitol** 1989 Dec;19(8):835–8

IMMUNOLOGY

Species–specific and cross–reactive antigens of Entamoeba. Avila EE, et al. **Int J Parasitol** 1989 Dec;19(8):949–51

ISOLATION & PURIFICATION

Clinical survey of Entamoeba gingivalis by multiple sampling in patients with advanced periodontal disease. Linke HA, et al. **Int J Parasitol** 1989 Nov;19(7):803–8

METABOLISM

Quantitative evaluation of intracellular degradation in Entamoeba invadens. Ramírez–Córdova JD, et al. **Int J Parasitol** 1990 Apr;20(2):199–201

ENTAMOEBA HISTOLYTICA

ANALYSIS

Demonstration of histamine receptors on the surface of Entamoeba histolytica. Khan MA, et al. **Indian J Exp Biol** 1989 Jan;27(1):96–7

Entamoeba histolytica: molecules involved in the target cell–parasite relationship. Rodríguez MA, et al. **Mol Biochem Parasitol** 1989 Nov;37(1):87–99

CLASSIFICATION

Suitability of the Phast system for discrimination of Entamoeba isolates by isoenzyme isoelectrofocusing. Kollaritsch H, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):211–2

DRUG EFFECTS

Entamoeba histolytica: physiology of multidrug resistance. Ayala P, et al. **Exp Parasitol** 1990 Aug;71(2):169–75

In vitro effect of human recombinant tumor necrosis factor on Entamoeba histolytica trophozoites. Ghadirian E. **Immunobiology** 1990 Jun;180(4–5):339–50

Characterization of a cytochalasin D–resistant mutant of Entamoeba histolytica. de la Garza M, et al. **J Protozool** 1989 Nov–Dec;36(6):556–60

Emetine–resistant mutants of Entamoeba histolytica overexpress mRNAs for multidrug resistance. Samuelson J, et al. **Mol Biochem Parasitol** 1990 Jan 15;38(2):281–90

In vitro activity of nalidixic acid and its iron (III) complex on Entamoeba histolytica. Anaya–Velázquez F, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun;83(3):344–5

High susceptibility of five axenic Entamoeba histolytica strains to gossypol. Gonzalez–Garza MT, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):522–4

ENZYMOLOGY

Specific features of phosphomonoesterase of Entamoeba histolytica (NIH–200). Agrawal A, et al.

Indian J Exp Biol 1990 Feb;28(2):141–3
Specific labeling of cysteine proteinases in pathogenic and nonpathogenic Entamoeba histolytica. de Meester F, et al. **Infect Immun** 1990 May;58(5):1396–401
Thiol proteinase expression and pathogenicity of Entamoeba histolytica. Reed SL, et al. **J Clin Microbiol** 1989 Dec; 27(12):2772–7
Action of the major protease from Entamoeba histolytica on proteins of the extracellular matrix. Schulte W, et al. **J Protozool** 1989 Nov–Dec;36(6):538–43
Breakdown of glucopolysaccharides in Entamoeba histolytica by phosphorylase. Werries E, et al. **J Protozool** 1989 Nov–Dec;36(6):607–12
Amplification and sequencing of genomic DNA fragments encoding cysteine proteases from protozoan parasites. Eakin AE, et al. **Mol Biochem Parasitol** 1990 Feb;39(1):1–8
Zymodeme conversion of isolates of Entamoeba histolytica. Andrews BJ, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):63–5
Evidence for a vacuolar-type proton ATPase in Entamoeba histolytica. Löhden-Bendinger U, et al. **Z Naturforsch [C]** 1990 Mar–Apr;45(3–4):229–32

GENETICS

Repetitive DNA elements characteristic of pathogenic Entamoeba histolytica strains can also be detected after polymerase chain reaction in a cloned nonpathogenic strain. Mirelman D, et al. **Infect Immun** 1990 Jun;58(6):1660–3
Differentiation of clinical isolates of Entamoeba histolytica by using specific DNA probes. Bracha R, et al. **J Clin Microbiol** 1990 Apr;28(4):680–4
Circular DNA of Entamoeba histolytica encodes ribosomal RNA. Bhattacharya S, et al. **J Protozool** 1989 Sep–Oct; 36(5):455–8
Increase of DNA content in tissue stages of Entamoeba histolytica strain SFL 3. Mackenstedt U, et al. **Parasitol Res** 1990;76(5):373–8
Cloning and expression of a membrane antigen of Entamoeba histolytica possessing multiple tandem repeats. Stanley SL Jr, et al. **Proc Natl Acad Sci U S A** 1990 Jul;87(13):4976–80
cDNA sequence analysis of a 29-kDa cysteine-rich surface antigen of pathogenic Entamoeba histolytica. Torian BE, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6358–62
[Molecular biology in the differentiation between pathogenic and apathogenic isolates of Entamoeba histolytica] Tannich E, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:71–4 **(Ger)**

GROWTH & DEVELOPMENT

Effects of Panmede and various horse serum concentrations on the axenic cultivation of Entamoeba histolytica strains in TPS-1 medium. Chávez-Dueñas L, et al. **Parasitol Res** 1989;76(1):50–4
[A medium available in Czechoslovakia for the culture of Entamoeba histolytica and Giardia intestinalis] Cerva L. **Cesk Epidemiol Mikrobiol Imunol** 1989 Jul;38(4):245–9 (Eng. Abstr.) **(Cze)**

IMMUNOLOGY

Metabolic labeling of Entamoeba histolytica antigens: characterization of a 28-kDa major intracellular antigen. Bhattacharya A, et al. **Exp Parasitol** 1990 Apr;70(3):255–63
Interactions of macrophages from in vivo stimulated guineapigs & the trophozoites of Entamoeba histolytica. Vinayak VK, et al. **Indian J Med Res** 1990 Jan;91:33–8
Characterization of a monoclonal antibody that selectively recognizes a subset of Entamoeba histolytica isolates. Bhattacharya A, et al. **Infect Immun** 1990 Oct; 58(10):3458–61
Identification of a pathogenic isolate-specific 30,000-Mr antigen of Entamoeba histolytica by using a monoclonal antibody. Tachibana H, et al. **Infect Immun** 1990 Apr; 58(4):955–60
The 96-kilodalton antigen as an integral membrane protein in pathogenic Entamoeba histolytica: potential differences in pathogenic and nonpathogenic isolates. Torian BE, et al. **Infect Immun** 1990 Mar;58(3):753–60
Immune response in patients with amoebiasis: evaluation of IgG-subclasses. Kollaritsch H, et al. **Int J Med Microbiol** 1990 Apr;272(4):535–9
Evaluation of a new bicolored latex agglutination test for immunological diagnosis of hepatic amoebiasis. Robert R, et al. **J Clin Microbiol** 1990 Jun;28(6):1422–4
Detection of Entamoeba histolytica immunoglobulins G and M to plasma membrane antigen by enzyme-linked immunosorbent assay. Sathar MA, et al. **J Clin Microbiol** 1990 Feb;28(2):332–5
Characterization of an immuno-dominant variable surface antigen from pathogenic and nonpathogenic Entamoeba histolytica. Edman U, et al. **J Exp Med** 1990 Sep 1; 172(3):879–82
Two rapid and simple enzyme immunoassays for human antibodies to Entamoeba histolytica. Lin TM, et al. **J Immunoassay** 1989;10(4):301–13
Monoclonal antibodies directed against the galactose-binding lectin of Entamoeba histolytica enhance adherence. Petri WA Jr, et al. **J Immunol** 1990 Jun 15;144(12):4803–9
An immunogenic 30-kDa surface antigen of pathogenic clinical isolates of Entamoeba histolytica. Blakely P, et al. **J Infect Dis** 1990 Oct;162(4):949–54
Association of serum antibodies to adherence lectin with invasive amebiasis and asymptomatic infection with pathogenic Entamoeba histolytica. Ravdin JI, et al. **J Infect Dis** 1990 Sep;162(3):768–72
Interaction of rheumatoid factor and Entamoeba histolytica. Kremsner PG, et al. **Rev Inst Med Trop Sao Paulo** 1989 Jul–Aug;31(4):207–12
High seropositivity for Entamoeba histolytica infection in Japanese homosexual men: further evidence for the occurrence of pathogenic strains. Takeuchi T, et al. **Trans R Soc Trop Med Hyg** 1990 Mar–Apr;84(2):250–1
Kinetics of the immune responses during the course of hepatic amoebic infection—an experimental study. Vinayak VK, et al. **Trans R Soc Trop Med Hyg** 1989 May–Jun; 83(3):349–53
[Results and experiences with several methods for the immunodiagnosis of amebiasis] Sauer H, et al. **Angew Parasitol** 1989 Nov;30(4):209–13 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Cytologic detection of parasites in cervical smears [letter] Pandit AA, et al. **Acta Cytol** 1989 Nov–Dec;33(6):944–5
Detection of Entamoeba histolytica trophozoites in liver pus by the indirect fluorescent antibody test for the aetiological diagnosis of amoebic liver abscess. Yang SJ. **Ann Trop Med Parasitol** 1989 Jun;83(3):253–5
Evaluation of the ELISA test for detection of Entamoeba histolytica in feces. Merino E, et al. **J Clin Lab Anal** 1990; 4(1):39–42
Use of Wright's stain to identify Entamoeba histolytica trophozoites in faeces. Anaya-Velázquez F, et al. **Trans R Soc Trop Med Hyg** 1989 Mar–Apr;83(2):210

METABOLISM

Binding of proteolytically-degraded human colonic mucin glycoproteins to the Gal/GalNAc adherence lectin of Entamoeba histolytica. Chadee K, et al. **Gut** 1990 Aug; 31(8):890–5
Roles of target cell membrane carbohydrate and lipid in Entamoeba histolytica interaction with mammalian cells. Bailey GB, et al. **Infect Immun** 1990 Jul;58(7):2389–91
Specificity of glycosphingolipid recognition by Entamoeba histolytica trophozoites. Bailey GB, et al. **Infect Immun** 1990 Jan;58(1):43–7

PATHOGENICITY

Evidence for selection of virulent sub-populations of Entamoeba histolytica by cholesterol. Katiyar SK, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):257–62
Entamoeba histolytica: correlation of the cytopathic effect of virulent trophozoites with secretion of a cysteine proteinase. Keene WE, et al. **Exp Parasitol** 1990 Aug; 71(2):199–206
Entamoeba histolytica—the virulence of imported strains. Giboda M, et al. **Folia Parasitol (Praha)** 1990;37(1):9–19
Interaction of different strains of Entamoeba histolytica with target cells: characterization of electrophysiological and morphological features. Kollaritsch H, et al. **Immunobiology** 1989 Jun;179(2–3):190–201
Effect of exogenous 5-hydroxytryptamine on pathogenicity of Entamoeba histolytica in experimental animals. Acharya DP, et al. **Indian J Exp Biol** 1989 Aug;27(8):718–20
Enhancement of virulence of Entamoeba histolytica by histamine in vitro. Khan MA, et al. **Indian J Exp Biol** 1990 Apr;28(4):376–7
Pathogenic and nonpathogenic strains of Entamoeba histolytica can be differentiated by monoclonal antibodies to the galactose-specific adherence lectin. Petri WA Jr, et al. **Infect Immun** 1990 Jun;58(6):1802–6
Entamoeba histolytica depresses chemiluminescence in stimulated human polymorphonuclear leukocytes. Al-Mofleh IA, et al. **Int J Immunopharmacol** 1989; 11(5):529–36
Pathogenic zymodemes of Entamoeba histolytica in Japanese male homosexual population. Nozaki T, et al. **Trans R Soc Trop Med Hyg** 1989 Jul–Aug;83(4):525
Virulence of pathogenic and non-pathogenic zymodemes of Entamoeba histolytica (Indian strains) in guinea-pigs. Vohra H, et al. **Trans R Soc Trop Med Hyg** 1989 Sep–Oct; 83(5):648–50

PHYSIOLOGY

Intestinal lumen and mucosal microclimate H+ and NH3 concentrations as factors in the etiology of experimental amebiasis. Leitch GJ. **Am J Trop Med Hyg** 1988 May; 38(3):480–6
Amebiasis now. Ravdin JI. **Am J Trop Med Hyg** 1989 Sep; 41(3 Suppl):40–8 (57 ref.)
Non-pathogenic Entamoeba histolytica: functional and biochemical characterization of a monoxenic strain. Vargas MA, et al. **Mol Biochem Parasitol** 1990 May;40(2):193–201

ULTRASTRUCTURE

Ultrastructure of experimental intestinal invasive amebiasis. Martínez-Palomo A, et al. **Am J Trop Med Hyg** 1989 Sep; 41(3):273–9

ENTAMOEBIASIS see under **AMEBIASIS**

ENTAMOEBIASIS, HEPATIC see **LIVER ABSCESS, AMEBIC**

ENTAMOEBIASIS, INTESTINAL see **DYSENTERY, AMEBIC**

ENTERAL FEEDING

see related
FOOD, FORMULATED

Natural killer cell activity after immediate postoperative enteral and parenteral nutrition. Nissilä MS, et al. **Acta Chir Scand** 1989 Apr–May;155(4–5):229–32
Overfeeding: cardiovascular and metabolic response during continuous formula infusion in adult humans. Casper K, et al. **Am J Clin Nutr** 1990 Oct;52(4):602–9
Very early nutrition supplementation in burned patients. Chiarelli A, et al. **Am J Clin Nutr** 1990 Jun;51(6):1035–9
Enteral nutrition with structured lipid: effect on protein metabolism in thermal injury. DeMichele SJ, et al. **Am J Clin Nutr** 1989 Dec;50(6):1295–302
Feeding gastrostomy in small premature infants. Tomsovic EJ, et al. **Am J Dis Child** 1966 Jul;112(1):56–60
Long-term survival in patients undergoing percutaneous endoscopic gastrostomy and jejunostomy. Wolfsen HC, et al. **Am J Gastroenterol** 1990 Sep;85(9):1120–2
Nutritional support in surgical practice: Part II. Meguid MM, et al. **Am J Surg** 1990 Apr;159(4):427–43 (87 ref.)
Nutritional support in surgical practice: Part I. Meguid MM, et al. **Am J Surg** 1990 Mar;159(3):345–58 (92 ref.)
Edgar J. Poth lecture. The surgeon and gut maintenance. Page CP. **Am J Surg** 1989 Dec;158(6):485–90 (71 ref.)
The effects of refeeding on peripheral and respiratory muscle function in malnourished chronic obstructive pulmonary disease patients. Whittaker JS, et al. **Am Rev Respir Dis** 1990 Aug;142(2):283–8
Enteral feeding—a new beginning [editorial] Shaffer JL. **Ann Chir Gynaecol** 1989;78(4):257–8
US Supreme Court to hear first 'right-to-die' case. Murphy EK. **AORN J** 1990 May;51(5):1391–4
Postprandial motor response of the small intestine to enteral feeds in preterm infants. Bisset WM, et al. **Arch Dis Child** 1989 Oct;64(10 Spec No):1356–61
Does mechanical ventilation precipitate gastro-oesophageal reflux during enteral feeding? Newell SJ, et al. **Arch Dis Child** 1989 Oct;64(10 Spec No):1352–5
Nutrition in cystic fibrosis [letter] Taylor CJ, et al. **Arch Dis Child** 1990 Jun;65(6):646–7
Benefits and burdens of tube feeding and physical restraints [letter; comment] Meer JA. **Arch Intern Med** 1990 Mar; 150(3):694 Comment on: Arch Intern Med 1989 Sep;149(9):1937–41.
Tube feeding in elderly patients [letter; comment] Vellas BJ, et al. **Arch Intern Med** 1990 Apr;150(4):912, 914–5 Comment on: Arch Intern Med 1989 Mar;149(3):557–60.
Percutaneous endoscopic gastrostomy as a standard procedure in head and neck surgery. Roukema JA, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):730–1
Trials, costs and complications. Allison SP. **Br J Clin Pract Symp Suppl** 1988 Dec;63:45–8
Suppression of insulin receptor binding by prolonged enteral or parenteral nutrient infusion in the rat: role of gastric inhibitory polypeptide. Baer AR, et al. **Can J Physiol Pharmacol** 1989 Sep;67(9):1105–9
Quantitative contribution of factors regulating rat colonic crypt epithelium: role of parenteral and enteral feeding, caloric intake, dietary cellulose level and the colon carcinogen DMH. Cameron IL, et al. **Cell Tissue Kinet** 1990 May;23(3):227–35
Reversal of osmolite-warfarin interaction by changing warfarin administration time [letter] Petretich DA. **Clin Pharm** 1990 Feb;9(2):93
Small-intestinal function during enteral feeding and starvation in man. Maxton DG, et al. **Clin Sci** 1989 Oct; 77(4):401–6
Nutritional support of the mechanically ventilated patient. Schlichtig R, et al. **Crit Care Clin** 1990 Jul;6(3):767–84 (114 ref.)
Enteral nutrients prevent stress ulceration and increase intragastric volume. Ephgrave KS, et al. **Crit Care Med** 1990 Jun;18(6):621–4
Absorption of ciprofloxacin administered through a nasogastric or a nasoduodenal tube in volunteers and patients receiving enteral nutrition. Yuk JH, et al. **Diagn Microbiol Infect Dis** 1990 Mar–Apr;13(2):99–102
Stability of drugs with enteral nutrient formulas. Strom JG Jr, et al. **DICP** 1990 Feb;24(2):130–4
Indications for tube feedings in elderly patients. Ciocon JO. **Dysphagia** 1990;5(1):1–5 (35 ref.)
Nutrition for the respiratory insufficient patient. Mohsenin V, et al. **Eur Respir J Suppl** 1989 Jul;7:663s–665s
Malabsorption and nutritional status and support. **Gastroenterol Clin North Am** 1989 Sep;18(3):467–670
Nutritional support in acute pancreatitis. Havala T, et al. **Gastroenterol Clin North Am** 1989 Sep;18(3):525–42 (71 ref.)
Elemental versus polymeric feeding in patients with Crohn's disease—is there really a winner? Klein S. **Gastroenterology** 1990 Sep;99(3):893–4
Influence of hyperalimentation on rat hepatic microsomal fluidity and function. Knodell RG, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1320–5
Enterostomy catheter exchange using new polymer-coated guide wire: technical note. Markowitz DM, et al. **Gastrointest Radiol** 1990 Winter;15(1):64–5

The use of nasogastric feeding tubes in nursing homes: patient, family and health care provider perspectives. Kayser-Jones J. **Gerontologist** 1990 Aug;30(4):469–79

Gastroenterologists and nutritional support [letter] Payne-James JJ, et al. **Gut** 1990 Apr;31(4):483

Home enteral nutrition via gastrostomy in advanced head and neck cancer patients. Campos AC, et al. **Head Neck** 1990 Mar–Apr;12(2):137–42

Beta-carotene in tube feeding. Wüst B, et al. **Int J Vitam Nutr Res** 1990;60(1):19–25

Is the continued provision of food and fluids in Nancy Cruzan's best interests? Harris CE, et al. **Issues Law Med** 1990 Spring;5(4):415–35

Enterocutaneous fistulas: effect of nutritional management and surgery. Doglietto GB, et al. **Ital J Surg Sci** 1989; 19(4):375–80

Advances in hospital nutrition. Bistrian BR, et al. **J Am Coll Nutr** 1989;8 Suppl:3S–12S (94 ref.)

A step-wise approach to calculating modular feedings. Brylinsky CM, et al. **J Am Diet Assoc** 1989 Oct; 89(10):1489–91

Tube feeding the young child: current practices and concerns of pediatric nutritionists. Dorf A. **J Am Diet Assoc** 1989 Nov;89(11):1658–60

Transitioning the child fed by gastrostomy into school. Isaacs JS, et al. **J Am Diet Assoc** 1990 Jul;90(7):982–5

A survey of the role of the dietitian in preparing patients for home enteral feeding. Skipper A, et al. **J Am Diet Assoc** 1990 Jul;90(7):939–44

Effects of three liquid diets on nutrition-sensitive plasma proteins of tube-fed elderly men. Feller AG, et al. **J Am Geriatr Soc** 1990 Jun;38(6):663–8

Pediatric case studies. Cheney J. **J Burn Care Rehabil** 1989 Jul–Aug;10(4):379–80

Increased gut blood flow with early enteral feeding in burned guinea pigs. Inoue S, et al. **J Burn Care Rehabil** 1989 Jul–Aug;10(4):300–8

Peripheral parenteral nutrition is no better than enteral nutrition in acute exacerbation of Crohn's disease: a prospective trial. Wright RA, et al. **J Clin Gastroenterol** 1990 Aug;12(4):396–9

Nutritional support. Kelly KG, et al. **J Gen Intern Med** 1990 May–Jun;5(3):258–63

Subnormal carnitine levels and their correction in artificially fed patients from a neurological intensive care unit: a pilot study. Schäfer J, et al. **J Neurol** 1990 Jun;237(3):213–5

Nutritional discontinuation: active or passive euthanasia? Banja JD. **J Neurosci Nurs** 1990 Apr;22(2):117–20

Modifications of circadian cortisol rhythm by cyclic and continuous total enteral nutrition. Saito M, et al. **J Nutr Sci Vitaminol (Tokyo)** 1989 Dec;35(6):639–47

Gut hormones and regulatory peptides in relation to enteral feeding, gastroenteritis, and necrotizing enterocolitis in infancy. Aynsley-Green A, et al. **J Pediatr** 1990 Jul;117(1 Pt 2):S24–32 (49 ref.)

A comparison of rice-based oral rehydration solution and "early feeding" for the treatment of acute diarrhea in infants. Santosham M, et al. **J Pediatr** 1990 Jun; 116(6):868–75

Early postoperative feeding—a continuing controversy in pyloric stenosis [see comments] Foster ME, et al. **J R Soc Med** 1989 Sep;82(9):532–3 Comment in: J R Soc Med 1990 Jan;83(1):58.

Visceral protein levels in trauma patients are greater with peptide diet than with intact protein diet. Meredith JW, et al. **J Trauma** 1990 Jul;30(7):825–8; discussion 828–9

A randomized trial of indirect calorimetry-based feedings in thermal injury. Saffle JR, et al. **J Trauma** 1990 Jul; 30(7):776–82; discussion 782–3

ASPEN. American Society for Parenteral and Enteral Nutrition. 14th clinical congress program. January 28–31, 1990, San Antonio, TX. Abstracts. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1 Suppl):1S–38S

Vitamin plasma levels in long-term enteral feeding patients. Berner Y, et al. **JPEN J Parenter Enteral Nutr** 1989 Sep–Oct;13(5):525–8

Microbiological monitoring of enteral nutrient solutions needed [letter] Fagerman KE. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):670

Improved selenium, carnitine and taurine status in an enterally fed population. Fischer MH, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun;14(3):270–4

Arginine supplementation and its effect on established peritonitis in guinea pigs. Gonce SJ, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun;14(3):237–44

Anabolic steroids in polytrauma patients. Influence on renal nitrogen and amino acid losses: a double-blind study. Hausmann DF, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):111–4

Prevention of yeast translocation across the gut by a single enteral feeding after burn injury. Inoue S, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):565–71

Comparison of low, medium, and high carbohydrate formulas for nighttime enteral feedings in cystic fibrosis patients. Kane RE, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):47–52

Effects of formula composition on hepatic and intestinal drug metabolism during enteral nutrition. Knodell RG. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):34–8

Special nutritional needs of children with malignancies: a review. Mauer AM, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun;14(3):315–24 (76 ref.)

A review of the effects of glutamine-enriched diets on experimentally induced enterocolitis. Rombeau JL. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4 Suppl):100S–105S

Growth response to enteral feeding by children with cerebral palsy. Sanders KD, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):23–6

Addition of dietary fiber to liquid formula diets: the pros and cons. Scheppach W, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):204–9 (63 ref.)

Nutritional support of the dysphagic patient: methods, risks, and complications of therapy. Sitzmann JV. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):60–3

Effect of pH on the equilibrium dialysis of phenytoin suspension with and without enteral feeding formula. Splinter MY, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun;14(3):275–8

Multiorgan failure from the inadvertent intravenous administration of enteral feeding. Ulicny KS Jr, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):658–60

A double-blind clinical trial comparing the gastrointestinal side effects of two enteral feeding formulas. Viall C, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun; 14(3):265–9

Lipid tolerance in the very low birth weight infant on intravenous and enteral feedings. Wells DH, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):623–7

Safety and metabolic effects of L-glutamine administration in humans. Ziegler TR, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4 Suppl):137S–146S

The medical, nutritional and surgical treatment of fistulae in Crohn's disease. Yamazaki Y, et al. **Jpn J Surg** 1990 Jul;20(4):376–83 (33 ref.)

Gastrostomy tube-feeding. Nevins MA. **N J Med** 1989 Oct; 86(10):779–80

Nutritive utilization of protein and digestive utilization of fat in two commercial diets designed for clinical enteral nutrition. Alférez MJ, et al. **Nahrung** 1990;34(6):499–507

The benefits of early jejunal hyperalimentation in the head-injured patient. Grahm TW, et al. **Neurosurgery** 1989 Nov;25(5):729–35

Effectiveness of pH measurements in predicting feeding tube placement. Metheny N, et al. **Nurs Res** 1989 Sep–Oct; 38(5):280–5

Metabolic response to enteral food in different phases of cancer cachexia in rats. Zylicz Z, et al. **Oncology** 1990; 47(1):87–91

Enteral nutrition in infants with congenital heart disease and growth failure. Schwarz SM, et al. **Pediatrics** 1990 Sep; 86(3):368–73

Enteral and parenteral nutritional support in dogs and cats with gastrointestinal disease. Lippert AC. **Semin Vet Med Surg (Small Anim)** 1989 Aug;4(3):232–40 (76 ref.)

Percutaneous endoscopic gastrostomy. Results in 316 patients and review of literature. Miller RE, et al. **Surg Endosc** 1989; 3(4):186–90 (30 ref.)

Effect of an enteral nutrient formula on sustained-release theophylline absorption. Bhargava VO, et al. **Ther Drug Monit** 1989 Sep;11(5):515–9

[An animal model of pump-controlled gastroenteric feeding] You ZY. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):287–8, 319 (Eng. Abstr.) (Chi)

[Enteral nutrition in clinical practice. Pathophysiologic basis of the effective use of enteral nutrition] Zadák Z, et al. **Cas Lek Cesk** 1989 Dec 1;128(49):1537–41 (Eng. Abstr.) (Cze)

[Clinical actions in patients in a chronic coma; a contribution from nursing home medicine] Lavrijsen JC, et al. **Ned Tijdschr Geneeskd** 1990 Aug 11;134(32):1529–32 (Dut)

[Tube feeding and decision policy] Mathus-Vliegen EM. **Ned Tijdschr Geneeskd** 1990 Jan 6;134(1):11–7 (Dut)

[Enteral feeding in premature infants: is vitamin supplement necessary? Work Group (Par)enteral Feeding of the Perinatology Section of the Netherland Pediatric Society] **Tijdschr Kindergeneeskd** 1989 Dec;57(6):214–7 (Dut)

[Incidence of enteral alimentation in hepatic arterial (DSAH) and portal venous (DSVP) output after orthotopic liver transplantation in man] Gatecel C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R55 (Fre)

[Comparison of the pharmacokinetics of theophylline administered i.v. per os with continuous enteral feeding] Raucoules M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R158 (Fre)

[A prospective study of liver test anomalies during continuous enteral nutrition] Godeberge P, et al. **Ann Gastroenterol Hepatol (Paris)** 1989 Dec;25(7):295–8 (Eng. Abstr.) (Fre)

[Early postoperative enteral feeding using the jejunostomy catheter] Hotton J, et al. **Cah Anesthesiol** 1989 Sep; 37(5):365–9 (Fre)

[Continuous enteral feeding in acute necrotic-hemorrhagic pancreatitis: apropos of 17 cases of jejunostomy] Cherif A, et al. **Tunis Med** 1989 Dec;67(12):769–72 (Fre)

[Continuous intragastric pH measurement in intensive care patients treated with ranitidine and tube feeding] Krier C, et al. **Anasth Intensivther Notfallmed** 1990 Jan;25 Suppl 1:10–3 (Eng. Abstr.) (Ger)

[Artificial nutrition 1989. Indications, monitoring, complications, therapy, indirect calorimetry, stable isotopes. 8th joint annual meeting of the German Working for Artificial Nutrition and the Austrian Working Group for Clinical Nutrition. Augsburg, 13–16 April 1989. Proceedings] **Beitr Infusionther** 1990;25:1–455 (Ger)

[Abstracts of the 9th combined annual meeting of the Austrian Society for Clinical Nutrition and the German Society for Artificial Nutrition. Vienna, 28–31 March 1990] **Infusionstherapie** 1990 Apr;17 Suppl 1:1–63 (Ger)

[Perioperative glucose resorption and hormonal reaction following intraduodenal glucose administration] Butters M, et al. **Infusionstherapie** 1989 Aug;16(4):156–9 (Eng. Abstr.) (Ger)

[Carbohydrates in the treatment of glycogenoses] Hayde M, et al. **Infusionstherapie** 1990 Apr;17(2):69–72 (Eng. Abstr.) (Ger)

[Normal amino acid solution. Current status and future perspectives] Jürgens P. **Infusionstherapie** 1989 Aug;16 Suppl 1:16–25 (25 ref.) (Ger)

[Effect of various calorie substrates on protein homeostasis] Schauder P. **Infusionstherapie** 1989 Aug;16 Suppl 1:34–5 (10 ref.) (Ger)

[The obese patient and surgical intervention] Widhalm K. **Infusionstherapie** 1989 Oct;16(3):199–202 (31 ref.) (Eng. Abstr.) (Ger)

[Significance of environmental factors on the tolerated enteral feeding volumes for patients in neonatal intensive care units] Boehm G, et al. **Kinderarztl Prax** 1990 Jun; 58(6):275–9 (Eng. Abstr.) (Ger)

[Enteral tube feeding using Cosilat in the complex therapy of patients with late radiation injuries of the colon] Sloventantor VJ, et al. **Radiobiol Radiother (Berl)** 1990; 31(1):93–6 (Eng. Abstr.) (Ger)

[Differential indications: parenteral-enteral nutrition in intensive care patients] Smolle KH, et al. **Wien Med Wochenschr** 1990 May 15;140(9):249–51 (Eng. Abstr.) (Ger)

[Nutritional therapy using tubes and pumps in cancer patients] Winter A, et al. **Z Exp Chir Transplant Kunstliche Organe** 1989;22(6):360–3 (Eng. Abstr.) (Ger)

[Symposium reports. Enteral nutrition – home enteral nutrition. Frankfurt, 17 – 18 June 1988] **Z Gastroenterol** 1989 Jun;27 Suppl 2:1–83 (Ger)

[Enteral nutrition in colo-rectal surgery] Cavallaro A, et al. **Chir Patol Sper** 1988 Feb;36(1):37–45 (Eng. Abstr.) (Ita)

[Enteral nutrition in the critical neurosurgical patient. Effectiveness and tolerance of a prepared liquid diet] Ravelli V, et al. **Minerva Anestesiol** 1989 Apr;55(4):199–201 (Eng. Abstr.) (Ita)

[Early postoperative enteral nutrition and total parenteral nutrition. Technics compared in patients undergoing radical surgery for carcinoma of the large intestine. Preliminary report] Grilli P, et al. **Minerva Chir** 1989 Sep 15;44(17):1901–3 (Eng. Abstr.) (Ita)

[Role of parenteral feeding in an operative protocol of total artificial nutrition] Sansonetti A, et al. **Minerva Chir** 1990 Jan;45(1–2):83–6 (Eng. Abstr.) (Ita)

[Early enteral feeding after total gastrectomy. A preliminary report] Becchi G, et al. **Minerva Med** 1989 Aug;80(8):821–2 (Ita)

[Enteral nutrition in the pre- and postoperative therapy of gastric neoplasms. Comments on 21 cases] Sanlorenzo M, et al. **Minerva Med** 1990 Mar;81(3 Suppl):33–6 (Eng. Abstr.) (Ita)

[Possibilities and limitations of home enteral nutrition] Mancini S, et al. **Riv Eur Sci Med Farmacol** 1988 Dec; 10(6):503–6 (Eng. Abstr.) (Ita)

[Enteral feeding of hospitalized neurologic patients: analysis of complications and nutritional results] Quintanilha AG, et al. **Rev Paul Med** 1989 May–Jun;107(3):159–66 (Eng. Abstr.) (Por)

[Enteral-tube feeding with cozylate of patients with malignant neoplasms in the early postoperative period following surgical interventions on the abdominal organs] Sloventantor VIu, et al. **Anesteziol Reanimatol** 1989 Sep–Oct;(5):56–8 (Eng. Abstr.) (Rus)

[Use of fats in early enteral feeding] Bondarenko VA, et al. **Khirurgiia (Mosk)** 1990 Mar;(3):61–4 (Eng. Abstr.) (Rus)

[Characteristics of the wound process in patients with burns treated by tube hyperalimentation] Sologub VK, et al. **Khirurgiia (Mosk)** 1989 Aug;(8):13–6 (Eng. Abstr.) (Rus)

[Enteral tube feeding of patients operated on for stomach and duodenal diseases under prolonged epidural anesthesia including morphine] Lobastov SA, et al. **Klin Khir** 1990; (5):53–4 (Rus)

[The clinical efficacy of aerosol drug agents and dried dairy enteral feeding formulae in chronic nonulcerative colitis] Voloshin AI, et al. **Ter Arkh** 1989;61(11):143–5 (Eng. Abstr.) (Rus)

[Enteral tube feeding of patients] Romanenko NIa, et al. **Vestn Khir** 1989 Jul;143(7):110–1 (Rus)

[Benefits of the nutritional support in esophageal pathologies] Belloso RM, et al. **GEN** 1987 Oct–Dec;41(4):132–7 (Eng. Abstr.) (Spa)

[Experiences from the Birmingham Children's Hospital. One year and 10,000 hospital days of nutritional support] Finkel Y. **Lakartidningen** 1990 Mar 21;87(12):946–9 (Swe)

ADVERSE EFFECTS

Aspiration pneumonia in nursing home patients fed via gastrostomy tubes. Cogen R, et al. **Am J Gastroenterol** 1989 Dec;84(12):1509–12

The "buried bumper syndrome": a complication of percutaneous endoscopic gastrostomy. Klein S, et al. **Am J Gastroenterol** 1990 Apr;85(4):448–51

Diarrhea in tube–fed patients: feeding formula not necessarily the cause. Edes TE, et al. **Am J Med** 1990 Feb;88(2):91–3

Diarrhea with enteral feeding: will the real cause please stand up? [editorial] Heimburger DC. **Am J Med** 1990 Feb; 88(2):89–90

Accidental feeding of a dilute antiseptic solution to five babies [letter] Mucklow ES. **Arch Dis Child** 1989 Jul;64(7):1095–6

Retinal findings in the fat overload syndrome. Stock JG, et al. **Arch Ophthalmol** 1990 Mar;108(3):329

Aspiration associated with long–term gastric versus jejunal feeding: a critical analysis of the literature. Lazarus BA, et al. **Arch Phys Med Rehabil** 1990 Jan;71(1):46–53

Severe hypophosphatemia following the institution of enteral feedings. Hayek ME, et al. **Arch Surg** 1989 Nov; 124(11):1325–8

Gastrointestinal symptoms attributed to jejunostomy feeding after major abdominal trauma—a critical analysis. Jones TN, et al. **Crit Care Med** 1989 Nov;17(11):1146–50

Isotonic nasogastric tube feedings: do they cause diarrhea? Pesola GE, et al. **Crit Care Med** 1989 Nov;17(11):1151–5

Phenytoin–enteral feeding interaction. Haley CJ, et al. **DICP** 1989 Oct;23(10):796–8

Poor results with percutaneous endoscopic jejunostomy. DiSario JA, et al. **Gastrointest Endosc** 1990 May–Jun; 36(3):257–60

Small intestinal perforation following replacement of a percutaneous endoscopic gastrostomy tube. Wilson WC, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):62–3

Contamination of enteral feedings and diarrhea in patients in intensive care units. Mickschl DB, et al. **Heart Lung** 1990 Jul;19(4):362–70

Enteral nutrition: an increasingly recognized cause of nosocomial bloodstream infection. Levy J. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):395–7

Diarrhoea during enteral feeding in the critically ill: a comparison of feeds with and without fibre. Dobb GJ, et al. **Intensive Care Med** 1990;16(4):252–5

Enteral hyperalimentation as a source of nosocomial infection. Thurn J, et al. **J Hosp Infect** 1990 Apr; 15(3):203–17

Flexible nasogastric feeding tube tip malposition immediately after placement [letter] Benya R, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):108–9

Continuous enteral feeding: a major cause of pneumonia among ventilated intensive care unit patients. Jacobs S, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):353–6

Enteral feeding in the hypoalbuminemic patient. Patterson ML, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):362–5

Eosinophilia from food dye added to enteral feeding [letter] Bell RT, et al. **N Engl J Med** 1990 Jun 21;322(25):1822

Diarrhea associated with tube feeding in mechanically ventilated critically ill patients. Smith CE, et al. **Nurs Res** 1990 May–Jun;39(3):148–52

Diarrhea complicating enteral feeding after liver transplantation. Benya R, et al. **Nutr Rev** 1990 Mar; 48(3):148–52

Severe complication of enteral feeding therapy of a child with end–stage renal disease (ESRD) [letter] Trachtman H, et al. **Pediatr Nephrol** 1989 Apr;3(2):227

[Microbial contamination of tube feeding solutions] Jørgensen L, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1824–7 (Eng. Abstr.) **(Dan)**

[Reducing secretions in enteral nutrition] Petritsch W, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:75–7 (29 ref.) **(Ger)**

[Complications of enteral nutrition] Rabast U. **Z Gastroenterol** 1989 Jun;27 Suppl 2:53–7 (58 ref.) **(Ger)**

ECONOMICS

Cost–efficient management of nutritional products. MacDonald S. **Dimens Health Serv** 1989 Oct;66(7):26–7

[Ambulatory nutrition procedures from the viewpoint of the health office] Bokelmann M. **Z Gastroenterol** 1989 Jun;27 Suppl 2:58–60 **(Ger)**

INSTRUMENTATION

Retroperitoneal feeding tube for peritoneal dialysis patients. Kramer MS, et al. **ASAIO Trans** 1989 Jul–Sep;35(3):593–5

"Granny's knot" as a complication of nasogastric tube feeding [letter] Thomson HG. **Ear Nose Throat J** 1989 Aug; 68(8):636

Utilization of a silicone gastrostomy feeding port in the gallbladder [letter] Jacob H, et al. **Gastrointest Endosc** 1990 Jan–Feb;36(1):75

Percutaneous endoscopic gastrostomy as an outpatient procedure [letter] Kurchin A, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):584

Candida cellulitis: a complication of percutaneous endoscopic gastrostomy. Patel AS, et al. **Gastrointest Endosc** 1989 Nov–Dec;35(6):571–2

Effect of nasogastric tubes on eustachian tube function. Wake M, et al. **J Laryngol Otol** 1990 Jan;104(1):17–9

Unclogging feeding tubes with pancreatic enzyme. Marcuard SP, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr; 14(2):198–200

Skin–level gastrostomies and jejunostomies for long–term enteral feeding. Shike M, et al. **JPEN J Parenter Enteral Nutr** 1989 Nov–Dec;13(6):648–50

Complications associated with the insertion of narrow–bore feeding–tubes [letter] Rolfe I, et al. **Med J Aust** 1990 Jan 15;152(2):108

Percutaneous endoscopic gastrostomy and jejunostomy for long–term feeding in patients with cancer of the head and neck. Shike M, et al. **Otolaryngol Head Neck Surg** 1989 Nov;101(5):549–54

Percutaneous endoscopic gastrostomy in 156 children: indications, technique and complications. Gauderer MW, et al. **Z Kinderchir** 1988 Sep;43 Suppl 1:38–40

[Nutrition of ENT tumor patients treated with radiotherapy. Comparison of oral and enteral nutrition using percutaneous gastrostomy] Iro H, et al. **HNO** 1989 Aug; 37(8):343–8 (Eng. Abstr.) **(Ger)**

[Percutaneous endoscopy–controlled gastrostomy] Keymling M. **Z Gastroenterol** 1989 Jun;27 Suppl 2:65–8 (28 ref.) **(Ger)**

[Transnasal catheter technics] Rabast U. **Z Gastroenterol** 1989 Jun;27 Suppl 2:61–4 (25 ref.) **(Ger)**

[Fine–needle catheter jejunostomy] Vestweber KH, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:69–72 **(Ger)**

[Optimizing technical administration forms] Vestweber KH. **Z Gastroenterol** 1989 Jun;27 Suppl 2:82–3 **(Ger)**

[The technic of closed decompression and splinting of the small intestine] Ermisch J, et al. **Zentralbl Chir** 1989; 114(20):1371–6 **(Ger)**

[Use of Severini's coaxial catheters in gastrointestinal interventional radiology] Cozzi G, et al. **Radiol Med (Torino)** 1990 Jun;79(6):607–9 (Eng. Abstr.) **(Ita)**

METHODS

Feeding preterm infants with L–carnitine supplemented formula. Melegh B, et al. **Acta Paediatr Hung** 1990; 30(1):27–41

Minimal enteral feeding, nasojejunal feeding and gastrin levels in premature infants. Gounaris A, et al. **Acta Paediatr Scand** 1990 Feb;79(2):226–7

Indications for percutaneous gastrostomy (jejunostomy) (PEG/J). Floch MH. **Am J Gastroenterol** 1990 Sep; 85(9):1074–5

A new technique for direct percutaneous jejunostomy tube placement. Rosenblum J, et al. **Am J Gastroenterol** 1990 Sep;85(9):1165–7

Feeding jejunostomy: is its routine use in major upper gastrointestinal surgery justified? Cade RJ. **Aust N Z J Surg** 1990 Aug;60(8):621–3

Postoperative nutritional support: is cheapest best? [editorial] Smith RC. **Aust N Z J Surg** 1990 Aug;60(8):565–6

Nutrient–induced thermogenesis in enteral and parenteral nutrition. Schutz Y. **Beitr Infusionther** 1990;25:227–40 (18 ref.)

Some aspects of enteral feeding after abdominal surgery. Leiper JB. **Br J Clin Pract Symp Suppl** 1988 Dec;63:80–4 (31 ref.)

The feeding jejunostomy. McMahon MJ. **Br J Clin Pract Symp Suppl** 1988 Dec;63:85–8 (26 ref.)

Hyperalimentation in autologous bone marrow transplantation for solid tumors. Comparison of total parenteral versus partial parenteral plus enteral nutrition. Mulder PO, et al. **Cancer** 1989 Nov 15;64(10):2045–52

Laparoscopic jejunostomy. O'Regan PJ, et al. **Endoscopy** 1990 Jan;22(1):39–40

The biliogastric shunt: a method for simultaneous internal diversion of bile and enteric feeding in patients with cancer. Foutch PG, et al. **Gastrointest Endosc** 1989 Sep–Oct; 35(5):440–2

Percutaneous endoscopic jejunostomy: long–term follow–up of 23 patients. Kaplan DS, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):403–6

Perform PEJ, not PED. Lewis BS. **Gastrointest Endosc** 1990 May–Jun;36(3):311–3

The rapid placement of jejunal feeding tubes: the Seldinger technique applied to the gut. Lewis BS, et al. **Gastrointest Endosc** 1990 Mar–Apr;36(2):139–41

Combined gastric drainage and jejunal feeding through a percutaneous endoscopic stoma. Shike M, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):290–2

Tube dysfunction following percutaneous endoscopic gastrostomy and jejunostomy. Wolfsen HC, et al. **Gastrointest Endosc** 1990 May–Jun;36(3):261–3

A reevaluation of the role of antireflux procedures in severely neurologically handicapped children requiring a gastrostomy for feeding [letter] Byrne WJ. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):141

Nutritional management of chronic diarrhoea and/or malabsorption [letter] Thomas AG, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):142–3

The effects of enteral stimulation on gallbladder bile during total parenteral nutrition in the neonatal piglet. Cohen IT, et al. **J Pediatr Surg** 1990 Jan;25(1):163–7

Comparison of isomolar vs hyperosmolar enteral diets in experimental ileus. Brolin RE, et al. **JPEN J Parenter Enteral Nutr** 1989 Sep–Oct;13(5):465–70

Enteral nutrition in anorexia nervosa. Bufano G, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4):404–7

Differential effects of three enteral dietary regimens on selected outcome variables in burn patients. Gottschlich MM, et al. **JPEN J Parenter Enteral Nutr** 1990 May–Jun; 14(3):225–36

Continuous enteral feeding: a major cause of pneumonia among ventilated intensive care unit patients. Jacobs S, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):353–6

Dietary fiber and long–term large bowel response in enterally nourished nonambulatory profoundly retarded youth. Liebl BH, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug; 14(4):371–5

Treatment of acid maltase deficiency with a diet high in branched–chain amino acids. Mobarhan S, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):210–2

Home enteral nutrition system: one patient, one daily ration of an "all–in–one" sterile and modular formula in a single container. Sami H, et al. **JPEN J Parenter Enteral Nutr** 1990 Mar–Apr;14(2):173–6

Controlled trial of polymeric versus elemental diet in treatment of active Crohn's disease [see comments] Giaffer MH, et al. **Lancet** 1990 Apr 7;335(8693):816–9 Comment in: Lancet 1990 Jun 16;335(8703):1475–6.

Reliable insertion of nasogastric and enteral feeding tubes. Govett GS, et al. **Laryngoscope** 1990 Apr;100(4):425–6

Percutaneous feeding gastrostomy in patients with head and neck tumors: a 5–year review. O'Dwyer TP, et al. **Laryngoscope** 1990 Jan;100(1):29–32

Percutaneous endoscopic gastrostomy: a two–year experience. George J, et al. **Med J Aust** 1990 Jan 1; 152(1):17–9

Percutaneous feeding gastrostomy. Hollands MJ, et al. **Med J Aust** 1989 Sep 18;151(6):328, 330–1 (30 ref.)

Modified gastrojejunostomy tube: percutaneous placement for gastric decompression and jejunal feeding. Grassi CJ. **Radiology** 1989 Dec;173(3):875–6

Percutaneous endoscopic gastrostomy in the adult patient—a local case report. Sim EK, et al. **Singapore Med J** 1990 Jun;31(3):280–2

Effect of liquid formula diets supplemented with citrus pectin on intestinal structure and function. Rombeau JL, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:27–30

Enteral nutrition. Russel RI. **Z Gastroenterol** 1989 Jun;27 Suppl 2:31–2 (13 ref.)

Enteral nutrition in diabetes mellitus. Schrezenmeir J, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:37–41

[Calorimetric study of enteral low–carbohydrate diet in patients with respiratory insufficiency and decompensation] Barale F, et al. **Agressologie** 1990 Jan;31(1):77–9 (Eng. Abstr.) **(Fre)**

[The malnurished patient: clinical relevance and possibilities for treatment] Ollenschläger G. **Beitr Infusionther** 1990; 25:132–41 (60 ref.) **(Ger)**

[Artificial feeding—indications] Striebel JP. **Beitr Infusionther** 1990;25:1–10 (14 ref.) **(Ger)**

[Experiences with early postoperative enteral tube feeding] Clevert HD, et al. **Helv Chir Acta** 1989 Dec;56(4):507–13 (Eng. Abstr.) **(Ger)**

[Effect of liver passage on peripheral glucose and hormone concentrations in early postoperative enteral nutrition] Butters M, et al. **Infusionstherapie** 1990 Apr;17(2):89–92 (Eng. Abstr.) **(Ger)**

[Malnutrition—a clinically relevant problem in HIV–1 infection?] Ollenschläger G, et al. **Infusionstherapie** 1990 Jun;17(3):119–23 (57 ref.) (Eng. Abstr.) **(Ger)**

[A special nutrition case: the infected patient] Schmitz JE. **Infusionstherapie** 1989 Oct;16(5):216–20 (25 ref.) (Eng. Abstr.) **(Ger)**

[Comparison between oral nutrition and enteral nutrition using a percutaneous endoscopically guided gastrostomy (PEG) in patients undergoing radiotherapy for head and neck tumors] Fietkau R, et al. **Strahlenther Onkol** 1989 Dec; 165(12):844–51 (Eng. Abstr.) **(Ger)**

[Ambulatory artificial nutrition] Weiner R. **Z Arztl Fortbild (Jena)** 1990;84(11):531–3 (0 ref.) **(Ger)**

[Enteral nutrition in patients with deglutition disorders] Börner N, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:45–8 **(Ger)**

[Short bowel—enteral nutrition] Hartmann F, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:33–6 (29 ref.) **(Ger)**

[Optimizing enteral nutrition formulas from the viewpoint of the producer] Kessler B. **Z Gastroenterol** 1989 Jun;27 Suppl 2:78–81 **(Ger)**

[Organizational methods of long–term home enteral feeding] Kolb S. **Z Gastroenterol** 1989 Jun;27 Suppl 2:73–4 **(Ger)**

[Changes in the motility of the gastrointestinal tract in enteral feeding] Lübke HJ, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:23–6 (21 ref.) **(Ger)**

[Enteral nutrition in oncology patients: prerequisites and implementation within the scope of mobile ambulatory after–care] Schlag P, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:42–4 **(Ger)**

[Hormonal changes in enteral nutrition] Schusdziarra V, et al. **Z Gastroenterol** 1989 Jun;27 Suppl 2:19–22 **(Ger)**

[Nutritionally defined and chemically defined diets—advantages, disadvantages, requirements of optimal chemically defined diets] Steinhardt HJ. **Z Gastroenterol** 1989 Jun;27 Suppl 2:15–8 (8 ref.) **(Ger)**

[Enteral nutrition in patients in intensive care and the early postoperative phase] Wiedeck H. **Z Gastroenterol** 1989 Jun;

27 Suppl 2:49–52 (Ger)
[Energy demands and supply in polytraumatized patients in the postoperative phase] Hackl JM, et al. **Zentralbl Chir** 1989;114(17):1155–64 (Eng. Abstr.) (Ger)
[The use of artificial feeding during the resuscitation of heart surgery patients] Panchishnaia GI, et al. **Anesteziol Reanimatol** 1990 Jan–Feb;(1):38–41 (Eng. Abstr.) (Rus)
[Tubal feeding in surgery] Liashchenko IuN. **Vestn Khir** 1989 Jul;143(7):132–7 (46 ref.) (Rus)
[A method of anti-reflux jejunostomy] Zherlov GK, et al. **Vestn Khir** 1989 Jul;143(7):116–7 (Rus)
[The methodological problems of an experimental study of artificial feeding] Poriadkov LF. **Vopr Pitan** 1990 Mar–Apr;(2):44–9 (Eng. Abstr.) (Rus)
[Patients with acute Crohn disease can be treated with nasogastric sond nutrition] Bodemar G, et al. **Lakartidningen** 1990 May 16;87(20):1756–8 (Swe)

MORTALITY

Increased mortality with intravenous supplemental feeding in severely burned patients. Herndon DN, et al. **J Burn Care Rehabil** 1989 Jul–Aug;10(4):309–13

TRENDS

Recent advances in parenteral and enteral nutrition: a personal perspective. Bistrian BR. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4):329–34

UTILIZATION

Clinical nutrition support. Payne-James J, et al. **BMJ** 1990 Jul 7;301(6742):1–2 (28 ref.)

VETERINARY

Portal-drained visceral flux of nutrients in lambs fed alfalfa or maintained by total intragastric infusion. Gross KL, et al. **J Anim Sci** 1990 Jan;68(1):214–21
Percutaneous endoscopic gastrostomy. A retrospective study of 54 clinical cases in dogs and cats. Armstrong PJ, et al. **J Vet Intern Med** 1990 Jul–Aug;4(4):202–6
Enteral nutrition by tube. Armstrong PJ, et al. **Vet Clin North Am Small Anim Pract** 1990 Jan;20(1):237–75 (109 ref.)

ENTERAL HYPERALIMENTATION see **ENTERAL FEEDING**

ENTERAL NUTRITION see **ENTERAL FEEDING**

ENTERIC FEVER see **TYPHOID**

ENTERIC HORMONES see **GASTROINTESTINAL HORMONES**

ENTERITIS

CHEMICALLY INDUCED

Hydrogen peroxide enteritis: the "snow white" sign. Bilotta JJ, et al. **Gastrointest Endosc** 1989 Sep–Oct;35(5):428–30
Treatment of non-steroidal anti-inflammatory drug induced enteropathy. Bjarnason I, et al. **Gut** 1990 Jul;31(7):777–80

COMPLICATIONS

Faecal mycobacteria and their relationship to HIV-related enteritis in Lusaka, Zambia. Conlon CP, et al. **AIDS** 1989 Aug;3(8):539–41
Perforated gastrointestinal tuberculosis [letter] Porter KA, et al. **Dig Dis Sci** 1990 Aug;35(8):1046–8
The steatocrit test as a guide in the prevention of cow's-milk enteropathy following acute infectious enteritis. Iacono G, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):48–52
CMV enteritis causing hemorrhage and obstruction in an infant with AIDS. Dolgin SE, et al. **J Pediatr Surg** 1990 Jun;25(6):696–8
Clinical and nutritional consequences of lactose feeding during persistent postenteritis diarrhea. Penny ME, et al. **Pediatrics** 1989 Nov;84(5):835–44

DIAGNOSIS

Campylobacter enteritis in a pregnant woman with hypogammaglobulinaemia. Thakore JH, et al. **Ir Med J** 1989 Dec;82(4):165
ELISA for Campylobacter jejuni antibodies in Israeli children with diarrhea and in healthy soldiers. Schwartz D, et al. **Isr J Med Sci** 1990 Jun;26(6):319–24
Transient intestinal colonization by multiple phenotypes of Aeromonas species during the first week of life. Pazzaglia G, et al. **J Clin Microbiol** 1990 Aug;28(8):1842–6
[Diagnostic serology of campylobacter infections—advisability of a supplementary review of diarrhea] Rautelin H, et al. **Duodecim** 1989;105(19):1597–601 (Fin)
[Appendicitis in enteritis] Trammer A, et al. **Monatsschr Kinderheilkd** 1989 Jul;137(7):422–4 (Eng. Abstr.) (Ger)
[Rapid diagnosis of Bacteroides using immunofluorescence] Höhne C, et al. **Z Gesamte Hyg** 1989 Oct;35(10):618–9 (Eng. Abstr.) (Ger)
[Serological diagnosis of Campylobacter jejuni infections] Przondo-Mordarska A, et al. **Med Dosw Mikrobiol** 1989;41(3–4):160–5 (Eng. Abstr.) (Pol)

DRUG THERAPY

Oral glutamine accelerates healing of the small intestine and improves outcome after whole abdominal radiation. Klimberg VS, et al. **Arch Surg** 1990 Aug;125(8):1040–5
Cyclosporin-responsive enteropathy and protracted diarrhea. Coulthard M, et al. **J Pediatr Gastroenterol Nutr** 1990 Feb;10(2):257–61
[Therapeutic study of the effect of selective decontamination on microbial overgrowth syndrome of the small intestine] Knoke M, et al. **Gastroenterol J** 1989;49(2):59–62 (Eng. Abstr.) (Ger)
[Clinical evaluation of norfloxacin in children] Ihara T, et al. **Jpn J Antibiot** 1990 May;43(5):852–9 (Eng. Abstr.) (Jpn)
[Bacteriological and clinical studies on norfloxacin in the field of pediatrics] Kuno K, et al. **Jpn J Antibiot** 1990 May;43(5):842–51 (Eng. Abstr.) (Jpn)
[Clinical study on norfloxacin in pediatrics] Minamitani M, et al. **Jpn J Antibiot** 1990 May;43(5):837–41 (Eng. Abstr.) (Jpn)
[Evaluation of effectiveness of rokitamycin dry syrup in acute enteritis in pediatrics. A comparative study on rokitamycin and fosfomycin dry syrups] Motohiro T, et al. **Jpn J Antibiot** 1990 Feb;43(2):257–84 (Eng. Abstr.) (Jpn)
[Clinical trial of T-3262 on acute enteritis. Japan Research Committee of T-3262, Research Group for Acute Infectious Enteritis] Aoki T, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):593–605 (Eng. Abstr.) (Jpn)
[Comparison of clinical efficacy of lomefloxacin (LFLX, NY-198) and pipemidic acid (PPA) in the treatment of infectious enteritis by a double-blind method. The Japan Research Committee of Lomefloxacin Research Group Enteritis] Aoki T, et al. **Kansenshogaku Zasshi** 1989 Jun;63(6):606–22 (Eng. Abstr.) (Jpn)
[Clinical trial of T-3262 (Tosufloxacin tosilate) on Salmonella enteritis, and fecal drug concentration and change in the fecal microflora in the acute diarrheal patients. Japan Research Committee of T-3262, Research Group for Acute Infectious Enteritis] Aoki T, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):659–75 (Eng. Abstr.) (Jpn)
[Acute enteritis caused by Salmonella: effect of mecillinam and cotrimoxazole on the clinical course and fecal carrier state] Mensa J, et al. **Med Clin (Barc)** 1989 Jul 1;93(5):161–8 (Eng. Abstr.) (Spa)
[Acute enteritis caused by Salmonella (letter)] Solera J. **Med Clin (Barc)** 1990 Feb 17;94(6):234 (Spa)

ETIOLOGY

Severe small bowel radiation enteritis. Jaén J, et al. **Acta Oncol** 1989;28(5):717–20
Radiation-induced enteropathy. Sher ME, et al. **Am J Gastroenterol** 1990 Feb;85(2):121–8
Infectious enteritis. A collective review. Fry RD. **Dis Colon Rectum** 1990 Jun;33(6):520–7 (73 ref.)
Group C rotavirus associated with fatal enteritis in a family outbreak. Caul EO, et al. **J Med Virol** 1990 Mar;30(3):201–5
Risk factors for the progression of Escherichia coli O157:H7 enteritis to hemolytic-uremic syndrome [published erratum appears in J Pediatr 1990 Jun;116(6):1008] Cimolai N, et al. **J Pediatr** 1990 Apr;116(4):589–92
Aetiology of eosinophilic enteritis [letter] Hepburn NC. **Lancet** 1990 Sep 1;336(8714):571
Jackdaws as potential source of milk-borne Campylobacter jejuni infection [letter] Hudson SJ, et al. **Lancet** 1990 May 12;335(8698):1160
Potent acid reduction and risk of enteric infection [letter] Littman A. **Lancet** 1990 Jan 27;335(8683):222
Radiation enteritis: an overview. Weijers RE, et al. **ROFO** 1990 Apr;152(4):453–9
Clinical features of Aeromonas enteritis in Hawaii. Phillips DL, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb;84(1):126–8
[Guillain-Barré syndrome following Campylobacter jejuni enteritis] Beenen LF, et al. **Ned Tijdschr Geneeskd** 1990 May 19;134(20):1010–2 (Eng. Abstr.) (Dut)
[Pathogenic bacteria encountered in nutritional disorders] Rasolofonirina RN. **Arch Inst Pasteur Madagascar** 1989;56(1):81–8 (Fre)
[Acute necrotizing enteritis: a rare complication of trichinosis (letter)] Rénier JF, et al. **Gastroenterol Clin Biol** 1990;14(4):408–9 (Fre)
[A case from practice (173). AIDS IV C-1 with Isospora belli enteritis. Status following Pneumocystis carinii pneumonia. Bactrim allergy] Hilti P. **Schweiz Rundsch Med Prax** 1990 Apr 17;79(16):505–6 (Ger)
[Bacteriological investigation on an outbreak of acute enteritis associated with verotoxin-producing Escherichia coli O111:H–] Tanaka H, et al. **Kansenshogaku Zasshi** 1989 Oct;63(10):1187–94 (Eng. Abstr.) (Jpn)
[An autopsy case of cytomegalic inclusion disease with severe enteritis and jaundice] Notsumata K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1228–31 (Jpn)
[Various problems of small-intestinal pathology in children with food allergy] Palkov VL, et al. **Pediatriia** 1990;(5):25–9 (Eng. Abstr.) (Rus)

HISTORY

Thomas Kennedy Dalziel 1861–1924. Chronic interstitial enteritis [classical article] Dalziel TK. **Dis Colon Rectum** 1989 Dec;32(12):1076–8

IMMUNOLOGY

Immunologically mediated damage to the intestinal mucosa. Strobel S. **Acta Paediatr Scand Suppl** 1990;365:46–57 (26 ref.)
A domestic ferret model of immunity to Campylobacter jejuni-induced enteric disease. Bell JA, et al. **Infect Immun** 1990 Jun;58(6):1848–52
Antigen-specific T-cell factors induce isotype-like suppression of mast cell and eosinophil-rich T-cell-dependent inflammation in the intestine of mice infected with Trichinella spiralis. Parmentier HK, et al. **Int Arch Allergy Appl Immunol** 1989;90(2):144–54

MICROBIOLOGY

Development of a murine model to study the pathogenesis of rotavirus infection. Ijaz MK, et al. **Exp Mol Pathol** 1989 Oct;51(2):186–204
Investigation of zoonotically acquired Campylobacter jejuni enteritis with serotyping and restriction endonuclease DNA analysis. Fox JG, et al. **J Clin Microbiol** 1989 Nov;27(11):2423–5
Enteropathogenicity of plesiomonas shigelloides by oral inoculation in adult conditioned rabbits. Chowdhury K, et al. **J Diarrhoeal Dis Res** 1988 Sep–Dec;6(3–4):221–7
Adenovirus enteritis in SIV-infected rhesus monkeys [letter] Baskin GB, et al. **J Infect Dis** 1989 Nov;160(5):905–7
Enteric pathogen screening: a multipoint technique with a simple numerical profile. Wigmore JA, et al. **Med Lab Sci** 1990 Jan;47(1):46–8
[Antibodies to Campylobacter jejuni in patients with acute enteritis] Pulchartová E, et al. **Cesk Epidemiol Mikrobiol Imunol** 1989 Sep;38(5):304–10 (Eng. Abstr.) (Cze)
[O5-antigenic classification of Salmonella typhimurium isolated from outbreaks of Salmonella enteritis] Yamaura N, et al. **Kansenshogaku Zasshi** 1990 Jun;64(6):693–8 (Eng. Abstr.) (Jpn)

PARASITOLOGY

Human eosinophilic enteritis caused by dog hookworm Ancylostoma caninum. Prociv P, et al. **Lancet** 1990 Jun 2;335(8701):1299–302

PATHOLOGY

[Nodular lymphoid hyperplasia of the small intestine in chronic enteritis and immunodeficiency] Rebrov VG, et al. **Klin Med (Mosk)** 1990 Mar;68(3):120–5 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Long-term influence of enteric infection on jejunal propulsion in guinea pigs. Alizadeh H, et al. **Gastroenterology** 1989 Dec;97(6):1461–8

PREVENTION & CONTROL

Future vaccines against enteric pathogens. Levine MM, et al. **Infect Dis Clin North Am** 1990 Mar;4(1):105–21 (55 ref.)
Experimental evidence of the benefit of misoprostol beyond the stomach in humans. Bjarnason I. **J Rheumatol Suppl** 1990 Feb;20:38–41 (46 ref.)

THERAPY

TPN-induced catch-up of growth in a 22-y-old male with radiation enteritis. Flombaum CD, et al. **Am J Clin Nutr** 1989 Dec;50(6):1341–7
Glutamine nutrition in the management of radiation enteritis. Souba WW, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul–Aug;14(4 Suppl):106S–108S
[Energy support with parenteral nutrition in patients with chronic intestinal inflammation] Kábrt J, et al. **Vnitr Lek** 1989 Nov;35(11):1094–101 (Eng. Abstr.) (Cze)

VETERINARY

Serum protein electrophoresis in canine parvovirus enteritis. van den Broek AH. **Br Vet J** 1990 May–Jun;146(3):255–9
Granulomatous enteritis following oral inoculation of newborn rabbits with Mycobacterium paratuberculosis of bovine origin. Mokresh AH, et al. **Can J Vet Res** 1990 Jun;54(3):313–9
Lymphocytic-plasmacytic enteritis in two horses. MacAllister CG, et al. **J Am Vet Med Assoc** 1990 Jun 15;196(12):1995–8
Effect of Campylobacter spp-induced enteritis on growth rate and feed efficiency in pigs. Straw BE. **J Am Vet Med Assoc** 1990 Aug 1;197(3):355–7
Species-specific cloned DNA probes for the identification of Campylobacter hyointestinalis. Gebhart CJ, et al. **J Clin Microbiol** 1989 Dec;27(12):2717–23
Yersinia pseudotuberculosis enteritis in four calves. Brown CC, et al. **J Comp Pathol** 1989 Nov;101(4):463–6

Lymphocytic-plasmacytic enteritis in 24 dogs. Jacobs G, et al. **J Vet Intern Med** 1990 Mar-Apr;4(2):45-53
Effect of intestinal resection on two juvenile horses with granulomatous enteritis. Schumacher J, et al. **J Vet Intern Med** 1990 May-Jun;4(3):153-6
Rotaviral enteritis in a raccoon. Hamir AN, et al. **J Wildl Dis** 1990 Apr;26(2):262-4
Case for diagnosis. Necrotizing granulomatous cholangiohepatitis with multifocal caseonecrotic granulomas caused by Chlamydia psittaci organisms and a concomitant enteric infection. Dochterman LW, et al. **Milit Med** 1990 Mar;155(3):138, 140-1
Rotavirus and coronavirus infections in animals. Babiuk LA, et al. **Prog Vet Microbiol Immunol** 1985;1:80-120 (242 ref.)
Regional enteritis in lambs. Ulvund MJ, et al. **Res Vet Sci** 1990 May;48(3):338-43
Duck virus enteritis in Great Britain, 1980 to 1989. Gough RE, et al. **Vet Rec** 1990 Jun 16;126(24):595-7
[Eosinophilic enteritis in a domestic cat] Badura A, et al. **Tierarztl Prax** 1989;17(4):412-4 (Eng. Abstr.) (Ger)

ENTERITIS, GRANULOMATOUS see **CROHN DISEASE**

ENTERITIS, REGIONAL see **CROHN DISEASE**

ENTERITIS, TRANSMISSIBLE, OF TURKEYS

IMMUNOLOGY

Hemorrhagic enteritis of turkeys: influence of maternal antibody and age at exposure. Fadly AM, et al. **Avian Dis** 1989 Oct-Dec;33(4):778-86

ENTERITIS VIRUS, TURKEY see under **CORONAVIRIDAE**

ENTEROBACTER see under **ENTEROBACTERIACEAE**

ENTEROBACTERIACEAE

Pulmonary function and symptoms after inhalation of endotoxin. Rylander R, et al. **Am Rev Respir Dis** 1989 Oct; 140(4):981-6
Synthesis of trisaccharides containing 3-deoxy-D-manno-2-octulosonic acid residues related to the KDO-region of enterobacterial lipopolysaccharides. Kosma P, et al. **Carbohydr Res** 1989 Jul 15;190(2):191-201
A clinical and endocrine study on the effect of orally administered bacterial endotoxin in adult pigs and goats. Cort N, et al. **Zentralbl Veterinarmed [A]** 1990 Mar; 37(2):130-7
[Effects of heat treated cells of intestinal lactic acid bacteria in rats fed a deoxycholic acid diet] Shiina T, et al. **Jikken Dobutsu** 1990 Jul;39(3):325-35 (Eng. Abstr.) (Jpn)

ANALYSIS

Outer membrane protein profiles of Edwardsiella ictaluri from fish. Newton JC, et al. **Am J Vet Res** 1990 Feb; 51(2):211-5
Hafnia alvei lipopolysaccharides: isolation, sugar composition and SDS-PAGE analysis. Romanowska A, et al. **FEMS Microbiol Immunol** 1988 Dec;1(3):151-5
Numerical analysis of electrophoretic protein patterns of Providencia stuartii strains from urine, wound and other clinical sources. Costas M, et al. **J Appl Bacteriol** 1990 May; 68(5):505-18

CLASSIFICATION

Development and application of oligonucleotide probes for molecular identification of Xenorhabdus species. Pütz J, et al. **Appl Environ Microbiol** 1990 Jan;56(1):181-6
Evaluation of numerical analysis of SDS-PAGE of protein patterns for typing Enterobacter cloacae. Costas M, et al. **Epidemiol Infect** 1989 Oct;103(2):265-74
Electrophoretic typing of Enterobacter cloacae with a limited set of enzyme stains. Gaston MA, et al. **Epidemiol Infect** 1989 Oct;103(2):255-64
Evaluation of coagglutination test for serotyping of enteropathogenic bacteria. Ram S, et al. **Indian J Med Res** 1989 Sep;89:290-6
Lack of precision in commercial identification systems: correction using Bayesian analysis. Berger SA. **J Appl Bacteriol** 1990 Mar;68(3):285-8
Numerical analysis of electrophoretic protein patterns of Providencia rettgeri strains from human faeces, urine and other specimens. Costas M, et al. **J Appl Bacteriol** 1989 Oct;67(4):441-52
Development of an expert system for bacterial identification: study of a prototype for identifying beta-galactosidase positive enterobacteria. Gavini F, et al. **J Appl Bacteriol** 1990 Jan;68(1):93-9
Evaluation of Spectrum-10 system for identification of members of the family Enterobacteriaceae. Vuye A. **J Clin Microbiol** 1989 Oct;27(10):2366-8
Confirmation of Morganella distinction from Proteus and Providencia among Enterobacteriaceae on the basis of cellular and lipopolysaccharide fatty acid composition. Vasyurenko ZP, et al. **J Hyg Epidemiol Microbiol Immunol** 1990;34(1):81-90
Serological investigation of the fish pathogen Edwardsiella ictaluri, cause of enteric septicemia of catfish. Bertolini JM, et al. **J Wildl Dis** 1990 Apr;26(2):246-52
Enterobacter cancerogenus (Urošević, 1966) Dickey and Zumoff 1988, a senior subjective synonym of Enterobacter taylorae Farmer et al. (1985). Grimont PA, et al. **Res Microbiol** 1989 Sep;140(7):459-65
[A simplified and rapid method of identifying bacteria of the dysentery group in mass screenings] Kalina GP, et al. **Lab Delo** 1990;(2):37-40 (Rus)
[Experience in the use of computers to identify enterobacterial genera] Nechmirev AB, et al. **Lab Delo** 1990;(4):13-5 (Rus)
[Biochemical typing of Enterobacter isolated from several clinical materials] Tuncer I, et al. **Mikrobiyol Bul** 1988 Apr; 22(2):105-12 (Eng. Abstr.) (Tur)

DRUG EFFECTS

Drug enrichment of commercial poultry feeds and human health in the tropical developing countries. Ojeniyi AA. **Acta Vet Scand** 1989;30(2):133-9
Antibacterial activity of lomefloxacin in a pharmacokinetic in vitro model. Rustige C, et al. **Antimicrob Agents Chemother** 1990 Jun;34(6):1107-11
Beta-lactamase production in members of the family Enterobacteriaceae and resistance to beta-lactam-enzyme inhibitor combinations. Thomson KS, et al. **Antimicrob Agents Chemother** 1990 Apr;34(4):622-7
In vitro activity of amifloxacin against outer membrane mutants of the family Enterobacteriaceae and frequency of spontaneous resistance. Watanabe M, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1837-40
In vitro emergence of quinolone-resistant mutants of Escherichia coli, Enterobacter cloacae, and Serratia marcescens. Watanabe M, et al. **Antimicrob Agents Chemother** 1990 Jan;34(1):173-5
Antibiotic susceptibility and beta-lactamase production in clinical isolates of Enterobacter spp. Lindh E, et al. **APMIS** 1990 May;98(5):462-70
Antibiotic resistance of gram-negative enteric bacteria from pigs in three herds with different histories of antibiotic exposure. Gellin G, et al. **Appl Environ Microbiol** 1989 Sep; 55(9):2287-92
Potencies of ceftriaxone and cefotaxime in a single chamber pharmacokinetic system simulating their in vivo half-lives. Unowsky J, et al. **Chemotherapy** 1989;35(5):338-44
Lomefloxacin (SC 47111 or NY-198), a new difluorinated quinolone: comparison of the in vitro activity with other broad spectrum antimicrobials against Enterobacteriaceae, Acinetobacter spp, Aeromonas spp, and Pseudomonas aeruginosa. Aldridge KE, et al. **Diagn Microbiol Infect Dis** 1989 May-Jun;12(3 Suppl):1S-6S
In vitro studies of ciprofloxacin and survey of resistance patterns in current isolates. Fernandes CJ, et al. **Diagn Microbiol Infect Dis** 1990 Mar-Apr;13(2):79-91
Sulbactam: secondary mechanisms of action. Kazmierczak A, et al. **Diagn Microbiol Infect Dis** 1989 Jul-Aug;12(4 Suppl):139S-146S
Serum bactericidal activity from intravenous ciprofloxacin and azlocillin given alone and in combination to healthy subjects. Orlando PL, et al. **Diagn Microbiol Infect Dis** 1990 Mar-Apr;13(2):93-7
Evaluation of in vitro antimicrobial activity of lomefloxacin against staphylococci, enterococci, Enterobacteriaceae, and Pseudomonas aeruginosa. Rossolini GM, et al. **Diagn Microbiol Infect Dis** 1989 May-Jun;12(3 Suppl):57S-64S
Antibacterial and plasmid curing activity of lomefloxacin in vitro. Derlot E, et al. **Eur J Clin Microbiol Infect Dis** 1989 Dec;8(12):1048-52
In vitro activity of combinations of beta-lactam antibiotics with beta-lactamase inhibitors against cephalosporinase-producing bacteria. Kitzis MD, et al. **Eur J Clin Microbiol Infect Dis** 1989 Sep;8(9):783-8
Detection of apramycin resistant Enterobacteriaceae in hospital isolates. Chaslus-Dancla E, et al. **FEMS Microbiol Lett** 1989 Oct 15;52(3):261-5
Chromate-resistance in a chromate-reducing strain of Enterobacter cloacae. Ohtake H, et al. **FEMS Microbiol Lett** 1990 Jan 15;55(1-2):85-8
A contribution to the situation of antibiotic resistance in Abeokuta (Ogunstate) and Minna (Nigerstate) in Nigeria. Sixl W, et al. **Geogr Med Suppl** 1989;5:145-52
Cadmium resistance in some members of Enterobacteriaceae. Bhattacharyya G, et al. **Indian J Exp Biol** 1989 Jun; 27(6):574-5
Antibiotic resistance of coliforms in drinking water in rural areas. Ramteke PW, et al. **Indian J Med Res** 1990 May; 91:185-8
Evaluation of the Cobas-Bact system for direct and rapid identification and antimicrobial susceptibility testing of Enterobacteriaceae from positive urine specimens. Kamm W, et al. **Int J Med Microbiol** 1989 Sep;271(3):272-80
Comparative in-vitro activity of meropenem against clinical isolates including Enterobacteriaceae with expanded-spectrum beta-lactamases. Chanal C, et al. **J Antimicrob Chemother** 1989 Sep;24 Suppl A:133-41
In-vitro activity of FCE 22101 and other beta-lactam antibiotics against Enterobacteriaceae resistant to third generation cephalosporins. Jarlier V, et al. **J Antimicrob Chemother** 1989 Aug;24(2):165-72
Activity of cefepime, ceftazidime, and ceftizoxime against mutants of Enterobacteriaceae and Pseudomonas aeruginosa derepressed for class I beta-lactamase. Knapp CC, et al. **J Antimicrob Chemother** 1989 Dec;24(6):1011-2
Antimicrobial activity of cefoperazone with clavulanic acid or sulbactam against Enterobacteriaceae [letter] Nagy E, et al. **J Antimicrob Chemother** 1990 Apr;25(4):701-3
Tigemonam activity against clinical isolates of Enterobacteriaceae and Enterobacteriaceae with known mechanisms of resistance to beta-lactam antibiotics. Nélet F, et al. **J Antimicrob Chemother** 1989 Aug;24(2):173-81
The antibiotic sensitivity of bacteria isolated from the blood of patients in St Thomas' Hospital, 1969-1988. Phillips I, et al. **J Antimicrob Chemother** 1990 Apr;25 Suppl C:59-80
The susceptibility to amoxycillin/clavulanate of Enterobacteriaceae with plasmid-mediated ampicillin resistance: a twelve-year study of strains in one Spanish hospital. Rubio MC, et al. **J Antimicrob Chemother** 1989 Nov;24 Suppl B:35-40
Molecular epidemiology of nosocomial, multiply aminoglycoside resistant Enterococcus faecalis. Weems JJ Jr, et al. **J Antimicrob Chemother** 1989 Aug;24(2):121-30
Complexing of copper in drinking water samples to enhance recovery of Aeromonas and other bacteria. Versteegh JF, et al. **J Appl Bacteriol** 1989 Nov;67(5):561-6
Epidemiology of antibiotic resistance in human isolates of Enterobacteriaceae in Sicily. Blandino G, et al. **J Chemother** 1990 Feb;2(1):40-4
In vitro activity of tigemonam against urinary tract pathogens. Garcia-Rodriguez JA, et al. **J Chemother** 1989 May;1 Suppl 2:28-31
In vitro studies of tigemonam: a comparison of the minimum inhibitory and minimum bactericidal concentrations (MIC vs MBC). Gobernado M, et al. **J Chemother** 1989 May;1 Suppl 2:36-40
In vitro activity of YTR 830. Jacobs MR, et al. **J Chemother** 1989 Jun;1(3):151-4
Antibacterial activity in vitro of tigemonam, a new oral monobactam. Schito GC, et al. **J Chemother** 1989 May;1 Suppl 2:41-4
Relevant breakpoints for ticarcillin-clavulanic acid should be set primarily with data from ticarcillin-resistant strains [letter; comment] Sanders CC, et al. **J Clin Microbiol** 1990 Apr;28(4):830-1 Comment on: J Clin Microbiol 1989 Nov;27(11):2475-81.
Evaluation of the resistance of Enterobacteriaceae strains to antibiotics—comparison of strains from clinical material versus environment. Krčméry V Jr, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(3):299-304
Beta-lactam-resistant Enterobacter bacteremia in febrile neutropenic patients receiving monotherapy. Johnson MP, et al. **J Infect Dis** 1990 Oct;162(4):981-3
Activity of imipenem against clinical isolates. Lim VK. **Malays J Pathol** 1989 Aug;11:49-52
Antibacterial activity of phenethyl alcohol and resulting membrane alterations. Corre J, et al. **Res Microbiol** 1990 May;141(4):483-97
Implications of the inoculum effect [letter; comment] Soriano F, et al. **Rev Infect Dis** 1990 Mar-Apr;12(2):369 Comment on: Rev Infect Dis 1989 May-Jun;11(3):361-8.
Antimicrobial susceptibility of selected bacterial enteropathogens in Latin America and worldwide. Santos JI, et al. **Scand J Gastroenterol Suppl** 1989;169:28-33
Antibiotic resistance in the tropics. 2. Some thoughts on the epidemiology and clinical significance of bacterial resistance to antimicrobial agents. Slack R. **Trans R Soc Trop Med Hyg** 1989 Jan-Feb;83(1):42-4 (9 ref.)
[Interpretative reading and quality control of an antibiotic sensitivity test using an expert system. Application to the API ATB system and Enterobacteriaceae] Peyret M, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):624-8 (Eng. Abstr.) (Fre)
[The effect of previous antibiotherapy on the colonization of an Escherichia coli strain sensitive to antibiotics in the digestive tract of hospitalized children] Rastegar Lari A, et al. **Pathol Biol (Paris)** 1989 Dec;37(10):1085-9 (Eng. Abstr.) (Fre)
[Comparative study of the antibacterial activity of cefpodoxime against enterobacteria producing beta lactamases] Siebor E, et al. **Pathol Biol (Paris)** 1990 May; 38(5):331-5 (Eng. Abstr.) (Fre)
[In vitro antibacterial effect of a new oral cephalosporin, cefixime. Results of a multicenter study] Soussy CJ, et al. **Pathol Biol (Paris)** 1989 Jun;37(5 Pt 2):528-33 (Eng. Abstr.) (Fre)
[In vitro antibacterial activity of RU 51746 (sodium salt of cefpodoxime). Results of a multicenter study] Soussy CJ, et al. **Pathol Biol (Paris)** 1990 May;38(5):336-42 (Eng. Abstr.) (Fre)
[Antibacterial effect of cefixime in the presence of the type of beta-lactamases produced by Enterobacteriaceae] Philippon A, et al. **Presse Med** 1989 Oct 11;18(32):1560-6 (Eng. Abstr.) (Fre)
[In vitro activity of imipenem against hospital bacteria] Soussy CJ, et al. **Presse Med** 1990 Apr 4;19(13):583-7 (Eng. Abstr.) (Fre)
[Activity of norfloxacin against gram-negative bacteria] Ben Redjeb S, et al. **Tunis Med** 1989 Jun-Jul;67(6-7):391-5 (Fre)
[The antibiotic resistance of pathogens from fecal samples] Kloneg A, et al. **Geogr Med Suppl** 1989;3:113-22 (Eng.

Abstr.) (Ger)
[Studies with temocillin] Crusius S. **Z Gesamte Hyg** 1989 Jul;35(7):403–6 (Eng. Abstr.) (Ger)
[The role of mechanically purified city sewers in the spread of antibiotic-resistant bacteria of the Enterobacteriaceae family] Gról A, et al. **Med Dosw Mikrobiol** 1989; 41(2):100–5 (Eng. Abstr.) (Pol)
[Sensitivity to cefoperazone (CEFOBID) of microorganisms isolated from diagnostic specimens] Janowiec M, et al. **Pneumonol Pol** 1989 Jul–Sep;57(7–9):409–13 (Eng. Abstr.) (Pol)
[Patterns of resistance of Staph aureus and gram-negative bacteria to aminoglycosides and cephalosporins] Ruczkowska J, et al. **Wiad Lek** 1989 May 1;42(9):579–83 (Eng. Abstr.) (Pol)
[Use of antimicrobial agents and bacterial resistance at a university hospital in Rio de Janeiro] Correa CM, et al. **AMB Rev Assoc Med Bras** 1989 Mar–Apr;35(2):46–8 (Eng. Abstr.) (Por)
[Resistance to antibacterial drugs of Enterobacteriaceae isolated from healthy children and from those with Salmonella infections] Dombrovskiĭ AM, et al. **Antibiot Khimioter** 1989 Oct;34(10):774–9 (Eng. Abstr.) (Rus)
[Contamination of antiseptics and disinfectants with microorganisms in urologic clinics and the evaluation of the degree of microbial sensitivity to these drugs] Zueva LP, et al. **Gig Sanit** 1989 Sep;(9):81–2 (Rus)
[The effect of subinhibitory concentrations of antibiotics on the adhesion of enterobacteria] Parkhomenko LV, et al. **Mikrobiol Zh** 1990 Mar–Apr;52(2):78–81 (Eng. Abstr.) (Rus)
[The effect of derivatives of 1-(p-nitrophenyl)-2-amino-1,3-propanediol and beta-chloroethylphosphonic acid on the growth of enterobacteria] Shatilo VA, et al. **Mikrobiol Zh** 1984 Nov-Dec;46(6):39–42 (Eng. Abstr.) (Rus)
[An evaluation of the sensitivity to antiseptic preparations of clinical strains of microorganisms in the family Enterobacteriaceae] Adarchenko AA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan;(1):23–8 (Eng. Abstr.) (Rus)
[Transmission of resistance to 1st and 2d generation cephalosporins] Antal M, et al. **Cesk Epidemiol Mikrobiol Imunol** 1989 Dec;38(6):337–41 (Eng. Abstr.) (Slo)

ENZYMOLOGY

Beta-lactamase-catalyzed aminolysis of depsipeptides: amine specificity and steady-state kinetics. Pazhanisamy S, et al. **Biochemistry** 1989 Aug 22;28(17):6863–70
Beta-lactamase-catalyzed aminolysis of depsipeptides: proof of the nonexistence of a specific D-phenylalanine/enzyme complex by double-label isotope trapping. Pazhanisamy S, et al. **Biochemistry** 1989 Aug 22;28(17):6870–5
Beta-lactamase-catalyzed aminolysis of depsipeptides: peptide inhibition and a new kinetic mechanism. Pazhanisamy S, et al. **Biochemistry** 1989 Aug 22; 28(17):6875–82
Thermodynamic profiles of penicillin G hydrolysis catalyzed by wild-type and Met——Ala168 mutant penicillin acylases from Kluyvera citrophila. Martin J, et al. **Biochim Biophys Acta** 1990 Feb 9;1037(2):133–9
L-2,4-diaminobutyric acid decarboxylase activity responsible for the formation of 1,3-diaminopropane in Enterobacter aerogenes. Nakao H, et al. **FEMS Microbiol Lett** 1990 Jun 15;58(1):61–6
The role of the PEP: carbohydrate phosphotransferase system in the regulation of bacterial metabolism. Postma PW, et al. **FEMS Microbiol Rev** 1989 Jun;5(1–2):69–80 (52 ref.)
A comparison of aztreonam and imipenem induction of class I beta-lactamase in Enterobacter cloacae ATCC 13047. Gatas BJ, et al. **J Antimicrob Chemother** 1989 Dec; 24(6):841–9
Morganella morganii urease: purification, characterization, and isolation of gene sequences. Hu LT, et al. **J Bacteriol** 1990 Jun;172(6):3073–80
Membrane-associated chromate reductase activity from Enterobacter cloacae. Wang PC, et al. **J Bacteriol** 1990 Mar;172(3):1670–2
In-vitro sensitivity of amoxicillin/clavulanic acid (Augmentin) to isolated beta-lactamases and in-vitro antibacterial activity. Esposito S, et al. **J Chemother** 1990 Jun;2(3):167–70
Prospective survey of colonization and infection caused by expanded-spectrum-beta-lactamase-producing members of the family Enterobacteriaceae in an intensive care unit. De Champs C, et al. **J Clin Microbiol** 1989 Dec; 27(12):2887–90
Characterization of enterobacteria by esterase specific-activity profiles. Goullet P, et al. **J Gen Microbiol** 1990 Mar;136 (Pt 3):431–40
Regulation of enterobacterial cephalosporinase production: the role of a membrane-bound sensory transducer. Honoré N, et al. **Mol Microbiol** 1989 Aug;3(8):1121–30
EclXI, a novel isoschizomer of XmaIII from Enterobacter cloacae 590 recognizing 5'-C/GGCCG-3'. Bolton BJ, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):381
Emergence of resistance to multiple beta-lactams in Enterobacter cloacae during treatment for neonatal meningitis with cefotaxime. Heusser MF, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):509–12
Inhibition of a class C beta-lactamase by a specific phosphonate monoester. Pratt RF. **Science** 1989 Nov 17; 246(4932):917–9
[A comparative analysis of beta-lactamase activity in enterobacteria] Demikhovskaia AA, et al. **Mikrobiol Zh** 1984 Mar-Apr;46(2):36–9 (Eng. Abstr.) (Rus)

GENETICS

ampG is essential for high-level expression of AmpC beta-lactamase in Enterobacter cloacae. Korfmann G, et al. **Antimicrob Agents Chemother** 1989 Nov;33(11):1946–51
Molecular epidemiology of TEM-3 (CTX-1) beta-lactamase. Petit A, et al. **Antimicrob Agents Chemother** 1990 Feb; 34(2):219–24
Nucleotide sequence of the aacC2 gene, a gentamicin resistance determinant involved in a hospital epidemic of multiply resistant members of the family Enterobacteriaceae. Vliegenthart JS, et al. **Antimicrob Agents Chemother** 1989 Aug;33(8):1153–9
Plasmid homologies in Edwardsiella ictaluri. Reid WS, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3253–5
Restriction endonuclease characterization of resistant plasmids in Enterobacteriaceae isolated from children in the Sudan. Shears P, et al. **Epidemiol Infect** 1989 Dec; 103(3):487–96
Bleomycin-kanamycin resistance as a marker of the presence of transposon Tn5 in clinical strains of Escherichia coli. Baquero F, et al. **Eur J Clin Microbiol Infect Dis** 1989 Nov;8(11):995–8
Biotinylated oligonucleotide probes for the detection and the characterization of TEM-type extended broad spectrum beta-lactamases in Enterobacteriaceae. Tham TN, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):109–15
Evolution of aromatic amino acid biosynthesis and application to the fine-tuned phylogenetic positioning of enteric bacteria. Ahmad S, et al. **J Bacteriol** 1990 Feb; 172(2):1051–61
Cloning and nucleotide sequence of the Enterobacter aerogenes signal peptidase II (lsp) gene. Isaki L, et al. **J Bacteriol** 1990 Jan;172(1):469–72
Molecular characterization of an Enterobacter cloacae gene (romA) which pleiotropically inhibits the expression of Escherichia coli outer membrane proteins. Komatsu T, et al. **J Bacteriol** 1990 Jul;172(7):4082–9
Phosphate regulon in members of the family Enterobacteriaceae: comparison of the phoB-phoR operons of Escherichia coli, Shigella dysenteriae, and Klebsiella pneumoniae. Lee TY, et al. **J Bacteriol** 1989 Dec; 171(12):6593–9
DNA probes for studying streptothricin resistance evolution in enteric bacteria. Tietze E, et al. **J Basic Microbiol** 1990; 30(4):279–87
Nucleotide sequence, expression, and properties of luciferase coded by lux genes from a terrestrial bacterium. Szittner R, et al. **J Biol Chem** 1990 Sep 25;265(27):16581–7
Activation of Chi recombinational hotspots by RecBCD-like enzymes from enteric bacteria. McKittrick NH, et al. **J Mol Biol** 1989 Dec 5;210(3):485–95
Cloning and nucleotide sequence of the gene encoding the EcaI DNA methyltransferase. Brenner V, et al. **Nucleic Acids Res** 1990 Jan 25;18(2):355–9
Chromosomal location and evolutionary rate variation in enterobacterial genes. Sharp PM, et al. **Science** 1989 Nov 10;246(4931):808–10
[Fast and slow genome rearrangements: molecular and genetic mechanisms of changes in virulence] Kaminskiĭ GD. **Vestn Akad Med Nauk SSSR** 1989;(11):41–9 (Eng. Abstr.) (Rus)

GROWTH & DEVELOPMENT

Manganese as a controlling factor in mixed cultures of Lactobacillus plantarum and Enterobacteriaceae. Bruyneel B, et al. **Antonie Van Leeuwenhoek** 1990 Feb;57(2):119–22
The cutworm Peridroma saucia (Lepidoptera: Noctuidae) supports growth and transport of pBR322-bearing bacteria. Armstrong JL, et al. **Appl Environ Microbiol** 1989 Sep; 55(9):2200–5
Growth and luminescence of the bacterium Xenorhabdus luminescens from a human wound. Colepicolo P, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2601–6
Evaluation of the Autoanalysis Colilert test for detection and enumeration of total coliforms. Covert TC, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2443–7
Enumeration of total coliforms and Escherichia coli from source water by the defined substrate technology. Edberg SC, et al. **Appl Environ Microbiol** 1990 Feb;56(2):366–9
Comparison of membrane filtration and Autoanalysis Colilert presence-absence techniques for analysis of total coliforms and Escherichia coli in drinking water samples. Lewis CM, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3091–4
Enumeration of Enterobacter cloacae after chloramine exposure. Watters SK, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3226–8
Factors influencing endotoxin concentrations on cotton grown in hot, humid environments: a two year study. DeLucca AJ 2d, et al. **Br J Ind Med** 1989 Dec; 46(12):887–91
Ammonia-induced injury in pure cultures and natural populations of coliform bacteria. Naundorf G, et al. **FEMS Microbiol Lett** 1989 Nov;53(1–2):65–9
The effect of pH on the initiation of growth of cottage cheese spoilage bacteria. Brocklehurst TF, et al. **Int J Food Microbiol** 1988 Feb;6(1):43–9
Survival and growth of food poisoning bacteria following inoculation into cottage cheese varieties. Sims GR, et al. **Int J Food Microbiol** 1989 Nov;9(3):173–95
Irradiation of pre-packaged sliced cooked meat products with low and normal sodium content. Stekelenburg FK. **Int J Food Microbiol** 1990 Jan;10(1):23–31
Microbiological and compositional status of Turkish white cheese. Turantaş F, et al. **Int J Food Microbiol** 1989 Feb; 8(1):19–24
Relation between Aeromonas and faecal coliforms in fresh waters. Araujo RM, et al. **J Appl Bacteriol** 1989 Aug; 67(2):213–7
Coliforms as a measure of sewage contamination of the River Zambezi. Feresu SB, et al. **J Appl Bacteriol** 1990 Apr; 68(4):397–403
Inhibition of the growth of enteropathogenic bacilli by bacteriocins produced by micro-organisms from the sediment of wells. Padilla C, et al. **J Appl Bacteriol** 1990 Mar;68(3):289–95
Seasonal variations of pollution indicators in a wildfowl reserve (Doñana National Park, Spain). Rivilla R, et al. **J Appl Bacteriol** 1989 Aug;67(2):219–23
Harry M. Vars award. Glutamine or fiber supplementation of a defined formula diet: impact on bacterial translocation, tissue composition, and response to endotoxin. Barber AE, et al. **JPEN J Parenter Enteral Nutr** 1990 Jul-Aug; 14(4):335–43
Determinants of water quality, availability and use in Kurunegala, Sri Lanka. Mertens TE, et al. **Trop Med Parasitol** 1990 Mar;41(1):89–97
Childhood diarrhoea in Sri Lanka: a case-control study of the impact of improved water sources. Mertens TE, et al. **Trop Med Parasitol** 1990 Mar;41(1):98–104
[The problems of microbial indication of water quality] Adámek R, et al. **Zentralbl Hyg Umweltmed** 1990 Apr; 189(5):465–72 (Eng. Abstr.) (Ger)
[The determination of total coliform and fecal coliform bacteria for quality control of bathing waters using the EC guideline 76/160 most probable number and BRILA-MUG broth] Müller HE, et al. **Zentralbl Hyg Umweltmed** 1990 May;189(6):543–53 (Eng. Abstr.) (Ger)
[The behavior of fecal coliforms, enterococci and salmonellae in the agricultural use of sludge from purification plants] Krannich K. **Zentralbl Mikrobiol** 1990;145(2):145–56 (Eng. Abstr.) (Ger)
[The virological supervision of drinking water quality—a review] Schulze E. **Zentralbl Mikrobiol** 1990;145(2):135–43 (42 ref.) (Eng. Abstr.) (Ger)
[Inhibition of enteropathogens by Clostridium butyricum MIYAIRI 588] Kuroiwa T, et al. **Kansenshogaku Zasshi** 1990 Mar;64(3):257–63 (Eng. Abstr.) (Jpn)
[Microbiological analysis of well water samples in the rural areas near Ankara] Yuluğ N, et al. **Mikrobiyol Bul** 1988 Apr;22(2):164–71 (Eng. Abstr.) (Tur)

IMMUNOLOGY

Vaccination against the cholera/coli family of enterotoxins by synthetic peptides. Jacob CO. **Adv Biotechnol Processes** 1990;13:223–54 (84 ref.)
Antibody response to defined domains on enterobacterial outer membrane proteins in healthy persons and patients with bacteraemia. Henriksen AZ, et al. **APMIS** 1990 Feb; 98(2):163–72
Enterobacterial common antigen in the urine from children with cancer. García Tamayo F, et al. **Arch Invest Med (Mex)** 1989 Apr-Jun;20(2):137–42
Differences in the phagocytosis of four bacteria by channel catfish neutrophils. Ainsworth AJ, et al. **Dev Comp Immunol** 1990 Spring;14(2):201–9
O-specific polysaccharides of Hafnia alvei lipopolysaccharides isolated from two serologically related strains: ATCC 13337 and 1187. A serological and structural study using chemical methods, gas chromatography/mass spectrometry and NMR spectroscopy at 500 MHz. Gamian A, et al. **Eur J Biochem** 1989 Dec 22;186(3):611–20
ECA, the enterobacterial common antigen. Kuhn HM, et al. **FEMS Microbiol Rev** 1988 Sep;4(3):195–222 (94 ref.)
Localization of enterobacterial common antigen immunoreactivity in the ribosomal cytoplasm of Escherichia coli cells cryosubstituted and embedded at low temperature. Acker G, et al. **J Bacteriol** 1990 Feb; 172(2):1106–13
Identification of a common enterobacterial flagellin epitope with a monoclonal antibody. Feng P, et al. **J Gen Microbiol** 1990 Feb;136 (Pt 2):337–42
Host defence and bovine coliform mastitis. Host defence mechanisms and characteristics of coliform bacteria in coliform mastitis in bovine: a review. Kremer WD, et al. **Vet Q** 1990 Apr;12(2):103–13 (119 ref.)

ISOLATION & PURIFICATION

Occurrence of Enterobacteriaceae and E. coli in the intestine of the newborn by caesarean section. Bezirtzoglou E, et al. **Acta Microbiol Bulg** 1990;25:76–81
Detection of coliform bacteria in water by polymerase chain reaction and gene probes. Bej AK, et al. **Appl Environ Microbiol** 1990 Feb;56(2):307–14

New plate medium for facilitated differentiation of Salmonella spp. from Proteus spp. and other enteric bacteria. Rambach A. **Appl Environ Microbiol** 1990 Jan; 56(1):301–3

Development of enterobacterium–specific oligonucleotide probes based on the surface–exposed regions of outer membrane proteins. Spierings G, et al. **Appl Environ Microbiol** 1989 Dec;55(12):3250–2

A study of the gram–negative bacterial flora in patients with ankylosing spondylitis. Ferraz MB, et al. **Braz J Med Biol Res** 1990;23(1):29–36

Alteration of wound colonization by selective intestinal decontamination in thermally injured mice. Manson WL, et al. **Burns** 1990 Jun;16(3):166–8

Enteric group 17 in clinical isolates. Yang DI, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 Nov;22(4):292–4

The effect of lactic acid sprays on the keeping qualities of meat during storage. Cudjoe KS. **Int J Food Microbiol** 1988 Aug;7(1):1–7

Evaluation of the Titertek–Enterobac–Automated System (TTE–AS) for identification of members of the family Enterobacteriaceae. Kämpfer P. **Int J Med Microbiol** 1990 Jun;273(2):164–72

The faecal flora of the giant panda (Ailuropoda melanoleuca). Hirayama K, et al. **J Appl Bacteriol** 1989 Oct;67(4):411–5

Membrane filtration differentiation of E. coli from coliforms in the examination of water. Mates A, et al. **J Appl Bacteriol** 1989 Sep;67(3):343–6

Use of a novel phosphatase test for simplified identification of species of the tribe Proteeae. Pompei R, et al. **J Clin Microbiol** 1990 Jun;28(6):1214–8

Plasmid profiling of members of the family Enterobacteriaceae, lactobacilli, and bifidobacteria to study the transmission of bacteria from mother to infant. Tannock GW, et al. **J Clin Microbiol** 1990 Jun;28(6):1225–8

Oral Enterobacteriaceae in patients with HIV infection. Schmidt–Westhausen A, et al. **J Oral Pathol Med** 1990 May;19(5):229–31

A medium for the selective isolation of Edwardsiella ictaluri. Shotts EB, et al. **J Wildl Dis** 1990 Apr;26(2):214–8

The first isolate of Tatumella ptyseos in Malaysia. Tan SC, et al. **Malays J Pathol** 1989 Aug;11:25–7

Identification of Enterobacteriaceae: report of the British Society for Multipoint Technology collaborative study. Wheat PF, et al. **Med Lab Sci** 1989 Jul;46(3):179–85

Hygienic investigation of coastal waters of the upper Adriatic Sea. Möse JR, et al. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):101–9

[Comparison of two systems for identifying coliform enterobacteria newly described or rarely found in clinical practice] Renaud F, et al. **Ann Biol Clin (Paris)** 1990; 48(2):111–5 (Eng. Abstr.) (Fre)

[Bacterial, viral and parasitological study of a population of Chaerophon pumila bats in Anjiro, Madagascar] Cassel–Beraud AM, et al. **Arch Inst Pasteur Madagascar** 1989;56(1):233–9 (Eng. Abstr.) (Fre)

[A combined chromogenic–fluorogenic medium for the simultaneous detection of coliform groups and E. coli in water] Manafi M, et al. **Zentralbl Hyg Umweltmed** 1989 Dec;189(3):225–34 (Eng. Abstr.) (Ger)

[Gram–negative flora of horticultural produce destined for consumption mainly in the raw state] Cavazzini G, et al. **Ann Ig** 1989 Sep–Oct;1(5):1279–89 (Eng. Abstr.) (Ita)

[Gastric microflora in patients receiving H2–blocker] Kato N, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):726–31 (Eng. Abstr.) (Jpn)

[Improvement of the membrane filter technique for enumeration of enterococci in water] Koujima I, et al. **Nippon Saikingaku Zasshi** 1989 Nov;44(6):813–6 (Eng. Abstr.) (Jpn)

[Bacterial flora of the surgically treated stomach] Bielecki K, et al. **Wiad Lek** 1989 Jan 15;42(2):61–9 (Eng. Abstr.) (Pol)

[Results of intraoperative bacteriological studies of bile from patients operated on for cholelithiasis] Sowier J, et al. **Wiad Lek** 1989 Apr 30;42(8):514–6 (Eng. Abstr.) (Pol)

[Frequency of pathogenic enterobacteria in infantile diarrheic processes in the city of Recife, Pernambuco, Brazil] Leal NC, et al. **Mem Inst Oswaldo Cruz** 1988 Oct–Dec; 83(4):475–9 (Eng. Abstr.) (Por)

[Enteropathogens detected in healthy children in 3 low income communities, in Recife, State of Pernambuco, Brazil] Leal NC, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun;83(2):153–9 (Eng. Abstr.) (Por)

[Bacteriocholia and cholic acid level in the bile in cholelithiasis] Bekbergenov BM, et al. **Antibiot Khimioter** 1990 Jan;35(1):37–40 (Eng. Abstr.) (Rus)

[A method for the study of aerobic microorganisms] Gracheva MN, et al. **Gig Sanit** 1989 Jul;(7):35–8 (Rus)

[One probable source of the airborne spread of enteric–group bacteria] Kotenok IaF. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug;(8):109–11 (Rus)

[The identification and comparison of gram–negative Enterobacteriaceae and non–fermentative bacteria by the conventional manual method and the Quantum II microbiology system] Akyön Y, et al. **Mikrobiyol Bul** 1988 Jan;22(1):8–16 (Eng. Abstr.) (Tur)

METABOLISM

Bioluminescence of the insect pathogen Xenorhabdus luminescens. Schmidt TM, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2607–12

Bacterial conversion of glycerol to beta–hydroxypropionaldehyde. Vancauwenberge JE, et al. **Appl Environ Microbiol** 1990 Feb;56(2):329–32

Carbohydrate fermentation by gut microflora in preterm neonates. Walker V, et al. **Arch Dis Child** 1989 Oct;64(10 Spec No):1367–73

Transfer of phospholipid and protein into the envelope of gram–negative bacteria by liposome fusion. Tomlinson S, et al. **Biochemistry** 1989 Oct 17;28(21):8303–11

Gas liquid chromatography of amines produced by the Enterobacteriaceae. Ghenghesh KS, et al. **Braz J Med Biol Res** 1989;22(6):653–65

Enterohepatic circulation of triiodothyronine (T3) in rats: importance of the microflora for the liberation and reabsorption of T3 from biliary T3 conjugates. Rutgers M, et al. **Endocrinology** 1989 Dec;125(6):2822–30

Diversity of glucose entry routes in the Enterobacteriaceae. Grimont PA, et al. **FEMS Microbiol Rev** 1989 Jun; 5(1–2):109–14 (33 ref.)

Molecular mechanisms of bacterial chemotaxis towards PTS–carbohydrates. Lengeler JW, et al. **FEMS Microbiol Rev** 1989 Jun;5(1–2):81–92 (32 ref.)

Psychrotrophic, proteolytic and lipolytic properties of Enterobacteriaceae isolated from milk and dairy products. Wessels D, et al. **Int J Food Microbiol** 1989 Aug;9(1):79–83

The role of enteric bacteria in the anaerobic metabolism of 5–aminosalicylate. Tucker MA, et al. **J Biochem Toxicol** 1989 Winter;4(4):267–8

In vitro metabolism of catechol estrogens by human fecal microflora. Järvenpää P. **J Steroid Biochem** 1990 Feb; 35(2):289–92

[The occurrence of adherence factors in Enterobacteriaceae from bacteriological meat examination and from food hygiene research material] Lehmann W. **Arch Exp Veterinarmed** 1989 Nov;43(6):821–34 (Eng. Abstr.) (Ger)

[Fatty acid composition of lipopolysaccharides from bacteria of the genuses Klebsiella and Enterobacter] Cherniavskaia EN, et al. **Mikrobiol Zh** 1984 Mar–Apr;46(2):39–43 (Eng. Abstr.) (Rus)

PATHOGENICITY

The virulence of Enterobacter cloacae and Serratia marcescens in experimental bladder infection in diabetic mice. Obana Y, et al. **J Med Microbiol** 1989 Oct;30(2):105–9

A bacterial virulence determinant encoded by lysogenic coliphage lambda. Barondess JJ, et al. **Nature** 1990 Aug 30;346(6287):871–4

[Interaction of Enterobacteriaceae with M–cells: a joint step in invasion of the intestinal mucosa] Hanski C, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:62–6 (53 ref.) (Ger)

[Morphological changes caused by the dermonecrosis factor of the causative agents of cholera and various other intestinal infections] Isupov IV, et al. **Biull Eksp Biol Med** 1990 Apr;109(4):371–4 (Eng. Abstr.) (Rus)

[Occurrence of conditionally pathogenic microorganisms in food] Kalamkarova LI. **Gig Sanit** 1989 Jun;(6):72–3 (Rus)

[The pathogenicity factors of the opportunistic bacteria that cause diarrhea] Khmelevskaia GV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Apr;(4):97–102 (50 ref.) (Rus)

PHYSIOLOGY

Enteric bacteria and osmotic stress: intracellular potassium glutamate as a secondary signal of osmotic stress? Booth IR, et al. **FEMS Microbiol Rev** 1990 Jun;6(2–3):239–46 (34 ref.)

The role of Proteae in diarrhea. Müller HE. **Int J Med Microbiol** 1989 Nov;272(1):30–5

Effect of commercially available chemically defined liquid diets on the intestinal microflora and bacterial translocation from the gut. Alverdy JC, et al. **JPEN J Parenter Enteral Nutr** 1990 Jan–Feb;14(1):1–6

[Effect of various microorganisms on the activity of levorin] Ivanova LN, et al. **Antibiot Khimioter** 1989 Nov; 34(11):819–22 (Eng. Abstr.) (Rus)

[Endogenous aerobic and anaerobic flora of the skin in healthy people and its role in the development of suppurative processes] Ivashkevich GA, et al. **Vestn Khir** 1990 Jan;144(1):142–5 (27 ref.) (Rus)

[A method for studying the effect of the geomagnetic field on the vital activities of microorganisms in the enteric family] Chernoshchekov KA. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):28–34 (Eng. Abstr.) (Rus)

RADIATION EFFECTS

Ultraviolet disinfection of drinking water. 1. Communication: Inactivation of E. coli and coliform bacteria. Zemke V, et al. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):51–61

ENTEROBACTERIACEAE INFECTIONS

Citrobacter freundii: a newly reported cause of pyomyositis. Fincher RM, et al. **Am J Med Sci** 1990 May;299(5):331–3

Osteomyelitis caused by Serratia marcescens without predisposing factors. Bergamo DF, et al. **Clin Pediatr (Phila)** 1989 Oct;28(10):485

Infectious eccrine hidradenitis. Allegue F, et al. **J Am Acad Dermatol** 1990 Jun;22(6 Pt 1):1119–20

Serratia osteochondritis after puncture wounds of the foot. Murray MM, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):523–5

Citrobacter diversus lung abscess in a preterm infant. Shamir R, et al. **Pediatr Infect Dis J** 1990 Mar;9(3):221–2

Peritonitis due to Kluyvera ascorbata: case report and review. Yogev R, et al. **Rev Infect Dis** 1990 May–Jun;12(3):399–402 (14 ref.)

Endogenous endophthalmitis due to Salmonella arizonae and Hafnia alvei [published erratum appears in South Med J 1990 May;83(5):496] Caravalho J Jr, et al. **South Med J** 1990 Mar;83(3):325–7

[Effect of insulin on the incidence of experimental Serratia marcescens cystitis in diabetic mice—relationship between insulin therapy and urea nitrogen content] Obana Y, et al. **Kansenshogaku Zasshi** 1989 Jul;63(7):708–13 (Eng. Abstr.) (Jpn)

[Cerebral infarct of arterial origin in meningitis caused by enterobacter. Apropos of a case (letter)] Martos JA, et al. **Rev Clin Esp** 1989 Dec;185(9):476–7 (Spa)

CEREBROSPINAL FLUID

Increased endotoxin and interleukin–1 beta concentrations in cerebrospinal fluid of infants with coliform meningitis and ventriculitis associated with intraventricular gentamicin therapy. Mustafa MM, et al. **J Infect Dis** 1989 Nov;160(5):891–5

COMPLICATIONS

Haematogenous Serratia marcescens endophthalmitis in an HIV–infected intravenous drug addict. Alvarez R, et al. **Infection** 1990 Jan–Feb;18(1):29–30

Neurotoxicity of benzylpenicillin in experimental renal failure and Enterobacter cloacae meningitis. Schliamser SE, et al. **J Antimicrob Chemother** 1989 Aug;24(2):215–25

Beta–lactam–resistant Enterobacter bacteremia in febrile neutropenic patients receiving monotherapy. Johnson MP, et al. **J Infect Dis** 1990 Oct;162(4):981–3

Septic shock following infected Haemaccel [letter] Hicks P, et al. **N Z Med J** 1990 Jul 11;103(893):328

[Spondylodiscitis caused by Enterobacter cloacae treated with cefixime (letter)] Chassagne P, et al. **Presse Med** 1990 Apr 7;19(14):673–4 (Fre)

[Pathogenic agents in acute non–enterocolic diarrheal syndrome] Gutiérrez J, et al. **Rev Chil Pediatr** 1989 Jan–Feb;60(1):28–33 (Eng. Abstr.) (Spa)

DIAGNOSIS

Evaluation of the LOGIC system for the rapid identification of members of the family Enterobacteriaceae in the clinical microbiology laboratory. Pattyn SR, et al. **J Clin Microbiol** 1990 Jun;28(6):1449–50

Transient intestinal colonization by multiple phenotypes of Aeromonas species during the first week of life. Pazzaglia G, et al. **J Clin Microbiol** 1990 Aug;28(8):1842–6

The first isolate of Tatumella ptyseos in Malaysia. Tan SC, et al. **Malays J Pathol** 1989 Aug;11:25–7

[Development of diagnostic criteria for Enterobacteria infections, especially for Salmonella] van Oye E, et al. **Arch Belg** 1988;46(11–12):517–27 (Eng. Abstr.) (Fre)

[Septic arthritis as an initial manifestation of endocarditis] Baerwald C, et al. **Z Rheumatol** 1990 May–Jun;49(3):165–8 (Eng. Abstr.) (Ger)

[Infectious cysts of a müllerian duct: a case report] Cho M, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1951–4 (24 ref.) (Eng. Abstr.) (Jpn)

[Diagnosis, management tactics and prevention of suppurative inflammatory diseases of the adnexa uteri] Krasnopol'skil VI, et al. **Akush Ginekol (Mosk)** 1990 May; (5):71–6 (Rus)

DRUG THERAPY

Ciprofloxacin in neonatal Enterobacter cloacae septicaemia. Bannon MJ, et al. **Arch Dis Child** 1989 Oct;64(10 Spec No):1388–91

Therapeutic effects of cefpirome (HR 810) on experimental mixed infections with Enterococcus faecalis and Escherichia coli in mice. Arai S, et al. **Infection** 1990 May–Jun;18(3):186–90

The pharmacokinetics and therapeutic efficacy of fleroxacin and pefloxacin in a rat abscess model. Leibovitz E, et al. **J Antimicrob Chemother** 1989 Sep;24(3):375–85

In vitro activity of tigemonam against multiresistant nosocomial Enterobacteriaceae. Giamarellou H, et al. **J Chemother** 1989 May;1 Suppl 2:32–5

Emergence of resistance to multiple beta–lactams in Enterobacter cloacae during treatment for neonatal meningitis with cefotaxime. Heusser MP, et al. **Pediatr Infect Dis J** 1990 Jul;9(7):509–12

Five years of cefotaxime use in a neonatal intensive care unit. Spritzer R, et al. **Pediatr Infect Dis J** 1990 Feb;9(2):92–6

Activity of cefotiam in combination with beta-lactam antibiotics on enterobacterial hospital strains. Vanhoof R, et al. **Pharm Weekbl** [Sci] 1990 Jun 22;12(3):104-6

[Nosocomial infections caused by multi-resistant Serratia marcescens at a university clinic--clinical aspects and drug resistance] Halle E, et al. **Padiatr Grenzgeb** 1989; 28(5):299-309 (Eng. Abstr.) (Ger)

[Studies with temocillin] Cruaius S. **Z Gesamte Hyg** 1989 Jul;35(7):403-6 (Eng. Abstr.) (Ger)

[Comparison of fluoroquinolones (norfloxacin, enoxacin, ofloxacin) in the therapy of lower urinary tract infections] Tizzani A, et al. **Minerva Urol Nefrol** 1990 Apr-Jun; 42(2):81-4 (Eng. Abstr.) (Ita)

[Clinico-pathogenetic substantiation of the immunocorrective treatment of pyelonephritis in infants] Kirillov VI. **Pediatriia** 1990;(2):24-31 (Eng. Abstr.) (Rus)

[Drug phonophoresis in the treatment of chronic postoperative cystitis] Popov AI, et al. **Sov Med** 1989; (10):120 (Rus)

EPIDEMIOLOGY

Epidemiologic surveillance of enteric diseases in Alaska--value of case investigation. Jenkerson SA, et al. **Alaska Med** 1990 Jan-Mar;32(1):9-18

Nosocomial infections due to Serratia marcescens--clinical findings, antibiotic susceptibility patterns and fine typing. Bollmann R, et al. **Infection** 1989 Sep-Oct;17(5):294-300

Genotypic heterogeneity of strains of Citrobacter diversus expressing a 32-kilodalton outer membrane protein associated with neonatal meningitis. Li J, et al. **J Clin Microbiol** 1990 Aug;28(8):1760-5

Use of molecular typing to study the epidemiology of Serratia marcescens. McGeer A, et al. **J Clin Microbiol** 1990 Jan; 28(1):55-8

Epidemiology of bacterial pathogens associated with infectious diarrhea in Djibouti. Mikhail IA, et al. **J Clin Microbiol** 1990 May;28(5):956-61

Epidemic of Serratia marcescens bacteremia in a cardiac intensive care unit. Villarino ME, et al. **J Clin Microbiol** 1989 Nov;27(11):2433-6

Enterobacter cloacae in a haematology/oncology ward--first impressions. McConkey SJ, et al. **J Hosp Infect** 1989 Nov; 14(4):277-84

A cluster of Edwardsiella tarda infection in a day-care center in Florida [letter] Desenclos JC, et al. **J Infect Dis** 1990 Sep;162(3):782

Circulation flow of enteropathogenic bacteria in institutionalized children. I. An epidemiologic study. Lacerda MD, et al. **Mem Inst Oswaldo Cruz** 1988 Oct-Dec; 83(4):465-70

Serratia bacteremia: review of 118 cases. Saito H, et al. **Rev Infect Dis** 1989 Nov-Dec;11(6):912-20

Serratia bacteremia: a review of 44 episodes. Watanakunakorn C. **Scand J Infect Dis** 1989;21(5):477-83

[Enterobacter cloacae infections at the Regional Hospital in Tromsø] Andersen BM, et al. **Tidsskr Nor Laegeforen** 1990 Jan 30;110(3):342-7 (Eng. Abstr.) (Nor)

[Epidemiologic problems of gastrointestinal infections in children 0 to 2 years of age] Moniuk O, et al. **Wiad Lek** 1989 May 1;42(9):567-71 (Eng. Abstr.) (Pol)

ETIOLOGY

Urinary tract infection caused by Enterobacter taylorae. Reina J, et al. **J Clin Microbiol** 1989 Dec;27(12):2877

Septic shock following infected Haemaccel [letter] Schousboe M, et al. **N Z Med J** 1990 Sep 12;103(897):434-5

CAPD peritonitis caused by vancomycin-resistant lactobacilli. Rao GG, et al. **Nephrol Dial Transplant** 1990; 5(3):235-6

Necrotizing myositis secondary to Serratia marcescens in a renal allograft recipient. Pascual J, et al. **Nephron** 1990; 55(3):329-31

Enterobacter sakazakii meningitis in neonates: causative role of formula? [letter] Muytjens HL, et al. **Pediatr Infect Dis J** 1990 May;9(5):372-3

Nosocomial bacteremia caused by Enterobacter sakazakiki and Leuconostoc mesenteroides resulting from extrinsic contamination of infant formula. Noriega FR, et al. **Pediatr Infect Dis J** 1990 Jun;9(6):447-9

Septic pulmonary embolization caused by Citrobacter diversus. Wyzan D, et al. **Respiration** 1989;55(3):189-92

[Studies on rat infectious pancreatitis models by subcapsular injection of dog's bile and appendix contents] Kenmochi T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1989 Dec; 86(12):2840 (Jpn)

[The role of mechanically purified city sewers in the spread of antibiotic-resistant bacteria of the Enterobacteriaceae family] Gról A, et al. **Med Dosw Mikrobiol** 1989; 41(2):100-5 (Eng. Abstr.) (Pol)

[Bacterial endocarditis caused by Enterobacter agglomerans in a patient with mitral valve prolapse] Hrabińska-Zachwieja J, et al. **Wiad Lek** 1989 Apr 1; 42(7):453-5 (Eng. Abstr.) (Pol)

[Occurrence of conditionally pathogenic microorganisms in food] Kalamkarova LI. **Gig Sanit** 1989 Jun;(6):72-3 (Rus)

IMMUNOLOGY

Role of enterobacteria and HLA-B27 in spondyloarthropathies: studies with transgenic mice. Nickerson CL, et al. **Ann Rheum Dis** 1990 Jun;49(1):426-33 (116 ref.)

MICROBIOLOGY

A human infection caused by an Erwinia species. Slotnick IJ, et al. **Am J Med** 1967 Jul;43(1):147-50

Plasmid--mediated drug resistance in enterobacteriaceae isolated at Gondar Hospital. Tiruneh M. **East Afr Med J** 1990 Apr;67(4):260-3

Evaluation of numerical analysis of SDS-PAGE of protein patterns for typing Enterobacter cloacae. Costas M, et al. **Epidemiol Infect** 1989 Oct;103(2):265-74

Electrophoretic typing of Enterobacter cloacae with a limited set of enzyme stains. Gaston MA, et al. **Epidemiol Infect** 1989 Oct;103(2):255-64

Acute pyelonephritis due to a Kluyvera species in a child. Dollberg S, et al. **Eur J Clin Microbiol Infect Dis** 1990 Apr;9(4):281-3

Enterobacter sakazakii infections in neonates associated with intrinsic contamination of a powdered infant formula. Simmons BP, et al. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):398-401

Automated analysis of 35-S-methionine labeled proteins by SDS-PAGE as a typing method in a suspected cluster of Serratia marcescens. Altwegg M, et al. **Int J Med Microbiol** 1989 Sep;271(3):372-80

Evaluation of the Cobas-Bact system for direct and rapid identification and antimicrobial susceptibility testing of Enterobacteriaceae from positive urine specimens. Kamm W, et al. **Int J Med Microbiol** 1989 Sep;271(3):272-80

Acute gastroenteritis due to double infection with enteropathogenic Escherichia coli or Salmonella and another bacterial pathogen. Eshel G, et al. **Isr J Med Sci** 1990 Jun;26(6):316-8

How predictable is development of resistance after beta-lactam therapy in Enterobacter cloacae infection? Michéa-Hamzehpour M, et al. **J Antimicrob Chemother** 1989 Sep;24(3):387-95

Prospective survey of colonization and infection caused by expanded-spectrum-beta-lactamase-producing members of the family Enterobacteriaceae in an intensive care unit. De Champs C, et al. **J Clin Microbiol** 1989 Dec; 27(12):2887-90

Nosocomial Serratia marcescens individualized by five typing methods in a regional hospital. Larose P, et al. **J Hosp Infect** 1990 Feb;15(2):167-72

Soft-tissue infection caused by Edwardsiella tarda and Aeromonas hydrophila [letter] Vartian CV, et al. **J Infect Dis** 1990 Apr;161(4):816

Gram-negative bacterial pyomyositis: unique case and review. Sarubbi FA, et al. **Rev Infect Dis** 1989 Sep-Oct; 11(5):789-92 (12 ref.)

Hafnia alvei infection [letter] Ginsberg HG. **South Med J** 1990 Sep;83(9):1109

[Opportunistic infection and systemic dissemination in burns] Zhang YP. **Chung Hua Wai Ko Tsa Chih** 1989 Dec; 27(12):750-2, 781-2 (Eng. Abstr.) (Chi)

[Serratia marcescens infections in a hospital: typing of isolated strains] Yde M. **Arch Belg** 1989;47(5-6):189-210 (Eng. Abstr.) (Dut)

[Enterococci as pathogens of severe infections in newborn infants and young infants] Halle E, et al. **Kinderarztl Prax** 1990 Mar;58(3):143-9 (Eng. Abstr.) (Ger)

[Effect of stress ulcer prevention on the incidence of ventilation pneumonia at a pulmologic intensive care unit] Wallner G, et al. **Pneumologie** 1989 Nov;43(11):665-8 (Eng. Abstr.) (Ger)

[Interaction of Enterobacteriaceae with M-cells: a joint step in invasion of the intestinal mucosa] Hanski C, et al. **Z Gastroenterol [Verh]** 1990 Apr;25:62-6 (53 ref.) (Ger)

[Sensitivity to cefoperazone (CEFOBID) of microorganisms isolated from diagnostic specimens] Janowiec M, et al. **Pneumonol Pol** 1989 Jul-Sep;57(7-9):409-13 (Eng. Abstr.) (Pol)

[Antibiotic sensitivity of the main opportunistic pathogenic aerobic bacteria] Minukhin VV, et al. **Antibiot Khimioter** 1990 Mar;35(3):36-8 (Eng. Abstr.) (Rus)

[Contamination of antiseptics and disinfectants with microorganisms in urologic clinics and the evaluation of the degree of microbial sensitivity to these drugs] Zueva LP, et al. **Gig Sanit** 1989 Sep;(9):81-2 (Rus)

[Bacterial carrier state in the personnel of a surgical clinic] Buianov VM, et al. **Sov Med** 1989;(6):3-5 (Rus)

[Pansinusitis, brain abscess and subdural empyema caused by an unusual microorganism: Edwardsiella tarda (letter)] Jiménez-Mejías ME, et al. **Rev Clin Esp** 1990 Jan; 186(1):46-7 (Spa)

[Biochemical typing of Enterobacter isolated from several clinical materials] Tuncer I, et al. **Mikrobiyol Bul** 1988 Apr; 22(2):105-12 (Eng. Abstr.) (Tur)

MORTALITY

Hospital stay and mortality attributed to nosocomial enterococcal bacteremia: a controlled study. Landry SL, et al. **Am J Infect Control** 1989 Dec;17(6):323-9

Prognostic factors in Serratia bacteremia [letter] Arribas JR, et al. **Rev Infect Dis** 1990 May-Jun;12(3):563-4

PATHOLOGY

Hepatic cyst infection in autosomal dominant polycystic kidney disease [see comments] Telenti A, et al. **Mayo Clin Proc** 1990 Jul;65(7):933-42 (31 ref.) Comment in: Mayo Clin Proc 1990 Jul;65(7):1020-5.

PHYSIOPATHOLOGY

Intestinal permeability assessed with polyethylene glycols in children with diarrhea due to rotavirus and common bacterial pathogens in a developing community. Johansen K, et al. **J Pediatr Gastroenterol Nutr** 1989 Oct;9(3):307-13

PREVENTION & CONTROL

Effects of vaccination against systemic Serratia infection. Kumagai Y, et al. **J Clin Lab Immunol** 1989 Jul;29(3):125-32

Selective effect of cefoxitin prophylaxis on post-cesarean-section microbial flora. Ismail MA, et al. **J Reprod Med** 1990 Feb;35(2):168-74

[A simplified and rapid method of identifying bacteria of the dysentery group in mass screenings] Kalina GP, et al. **Lab Delo** 1990;(2):37-40 (Rus)

RADIOGRAPHY

Acute mediastinitis. Andriono T, et al. **Paediatr Indones** 1989 May-Jun;29(5-6):116-20

SURGERY

Modified Danielson technique for recurrent aortic valve endocarditis. Dreyfus G, et al. **Ann Thorac Surg** 1989 Nov; 48(5):725-6; discussion 726-7

TRANSMISSION

Serratia marcescens outbreak in a paediatric oncology unit traced to contaminated chlorhexidine. McAllister TA, et al. **Scott Med J** 1989 Oct;34(5):525-8

[One probable source of the airborne spread of enteric-group bacteria] Kotenok IaF. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug;(8):109-11 (Rus)

VETERINARY

Some aspects of treatment of coliform mastitis. Lohuis JA. **Cornell Vet** 1990 Jul;80(3):223-7 (19 ref.)

Regression of hypertrophic osteopathy in a filly following successful management of an intrathoracic abscess. Chaffin MK, et al. **Equine Vet J** 1990 Jan;22(1):62-5

Serratia marcescens mastitis in a dairy herd. Wilson DJ, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1102-5

Clinical mastitis in two California dairy herds participating in contagious mastitis control programs. Gonzalez RN, et al. **J Dairy Sci** 1990 Mar;73(3):648-60

Serological investigation of the fish pathogen Edwardsiella ictaluri, cause of enteric septicemia of catfish. Bertolini JM, et al. **J Wildl Dis** 1990 Apr;26(2):246-52

A medium for the selective isolation of Edwardsiella ictaluri. Shotts EB, et al. **J Wildl Dis** 1990 Apr;26(2):214-8

Host defence and bovine coliform mastitis. Host defence mechanisms and characteristics of coliform bacteria in coliform mastitis in bovine: a review. Kremer WD, et al. **Vet Q** 1990 Apr;12(2):103-13 (119 ref.)

[Metaphylaxis and therapy of the MMA syndrome of sows with Baytril] Schöning G, et al. **DTW Dtsch Tierarztl Wochenschr** 1990 Jan;97(1):5-10 (Eng. Abstr.) (Ger)

ENTEROBIASIS see **OXYURIASIS**

ENTEROBIUS

ISOLATION & PURIFICATION

The presence of pinworms (Enterobius sp.) in the mesenteric lymph nodes, liver and lungs of a chimpanzee, Pan troglodytes. Zhang GW, et al. **J Helminthol** 1990 Mar; 64(1):29-34

PHYSIOLOGY

Enterobius vermicularis. Hood C. **Practitioner** 1989 Apr 8; 233(1466):503

ENTEROCELE see **HERNIA**

ENTEROCHELIN see under **SERINE**

ENTEROCHROMAFFIN CELLS see under **CHROMAFFIN SYSTEM**

ENTEROCOLITIS

[Enterocolitis induced by gold salts. The value of sodium cromoglycate (letter)] Gillet P, et al. **Therapie** 1989 Jul-Aug;44(4):305 (Fre)

BLOOD

Immunoreactive erythropoietin in the anemia of non-renal chronic diseases. Jelkmann W, et al. **Biomed Biochim Acta** 1990;49(2-3):S265-70

[Anomalies of hemostasis and chronic inflammatory enteropathies. What are the prospects?] Gruel Y.

Gastroenterol Clin Biol 1990;14(3):201–2 (Fre)
[Status of blood coagulation in acute intestinal infection in infants: effect of various combinations of infusion media] Kramarev SA. Pediatriia 1990;(1):73–7 (Rus)

CHEMICALLY INDUCED

Neutropenic enterocolitis. A new complication of head and neck cancer chemotherapy. Petruzzelli GJ, et al. Arch Otolaryngol Head Neck Surg 1990 Feb;116(2):209–11

COMPLICATIONS

Subclinical involvement of the gut in undifferentiated spondylarthropathies. Mielants H, et al. Clin Exp Rheumatol 1989 Sep–Oct;7(5):499–504
[Venous system of the abdomen in various diseases of the digestive tract] Bashniak VV. Klin Khir 1989;(8):35–7 (Eng. Abstr.) (Rus)

DIAGNOSIS

Cytomegalovirus (CMV) enterocolitis [letter] Banerjee AK. J R Soc Med 1989 Jul;82(7):446
Selective management of patients with neutropenic enterocolitis using peritoneal lavage. Sauter ER, et al. J Surg Oncol 1990 Sep;45(1):63–7
[Idiopathic hypereosinophilic syndrome. Enterocolitis—a rare manifestation] Aksnes B, et al. Tidsskr Nor Laegeforen 1989 Aug 30;109(24):2433–5 (Eng. Abstr.) (Nor)
[Value of measuring the fibronectin level in the evaluation of the severity of the septic process in newborn infants] Estrin VV, et al. Pediatriia 1990;(3):108–9 (Rus)

DRUG THERAPY

[Enterosorption in chronic enterocolitis] Shchedrunov VV, et al. Sov Med 1989;(11):24–6 (Eng. Abstr.) (Rus)
[Nigedase in the combined treatment of patients with chronic pancreatitis and enterocolitis] Dudar' LV, et al. Vrach Delo 1989 Aug;(8):75–6 (Eng. Abstr.) (Rus)

EPIDEMIOLOGY

[Postoperative enterocolitis and current status of MRSA enterocolitis—the result of a questionnaire survey in Japan] Hori K, et al. Kansenshogaku Zasshi 1989 Jul;63(7):701–7 (Eng. Abstr.) (Jpn)
[The incidence of E. coli O157H7 strains in causing hemorrhagic enterocolitis] Gancevici C, et al. Rev Ig [Bacteriol] 1989 Oct–Dec;34(4):337–44 (Eng. Abstr.) (Rum)
[The characteristics of acute enterocolitis and Escherichia infections in the Ukrainian SSR] Kas'ianenko AM, et al. Vrach Delo 1989 Nov;(11):112–6 (Eng. Abstr.) (Rus)

ETIOLOGY

Recurrent enterocolitis-like symptoms as the possible presenting manifestations of neonatal Brucella melitensis infection. Labrune P, et al. Acta Paediatr Scand 1990 Jun–Jul;79(6–7):707–9
Neutropenic enterocolitis. Clinical and pathological review. Newbold KM. Dig Dis 1989;7(6):281–7 (43 ref.)
Yersinia enterocolitis. Peene P, et al. J Belge Radiol 1989 Dec;72(6):524–5
Intestinal mucosal exfoliative response to graded hypertonic loads in neonatal and premature primates. Torma MJ, et al. Surg Forum 1978;29:410–3
[Infectious enterocolitis. Clinical and endoscopic diagnosis] Kuntz HD. Schweiz Rundsch Med Prax 1990 Mar 27;79(13):383–6 (28 ref.) (Eng. Abstr.) (Ger)
[Methicillin-resistant staphylococcal enterocolitis developed after induction chemotherapy in a case of acute promyelocytic leukemia] Chubachi A, et al. Rinsho Ketsueki 1989 Aug;30(8):1319–20 (Eng. Abstr.) (Jpn)
[Non-clostridial anaerobic microorganisms in children in the normal state and in pathologic conditions] Urdabaev ZhK. Pediatriia 1989;(8):100–3 (53 ref.) (Rus)
[Neutropenic enterocolitis during treatment of lymphoproliferative neoplasms] Montalbán C, et al. Med Clin (Barc) 1989 Nov 25;93(17):649–52 (Eng. Abstr.) (Spa)

IMMUNOLOGY

[Characteristics of cellular immunity in newborn infants with intestinal bacterial infection after administration of lysozyme] Amirova TD, et al. Pediatriia 1990;(1):21–4 (Eng. Abstr.) (Rus)

MICROBIOLOGY

Adherence, enterotoxigenicity, invasiveness and serogroups in Campylobacter jejuni and Campylobacter coli strains from adult humans with acute enterocolitis. Lindblom GB, et al. APMIS 1990 Feb;98(2):179–84
Enterotoxigenicity and frequency of Campylobacter jejuni, C. coli and C. laridis in human and animal stool isolates from different countries. Lindblom GB, et al. FEMS Microbiol Lett 1990 Jan 1;54(1–3):163–7

PATHOLOGY

Fecal leukocytes in Escherichia coli 0157:H7 enteritis [letter; comment] Cimolai N. J Clin Pathol 1990 Apr;43(4):347 Comment on: J Clin Pathol 1989 Aug;42(8):847–52.
The pathophysiology of Hirschsprung's-associated enterocolitis: importance of histologic correlates. Teitelbaum DH, et al. J Pediatr Surg 1989 Dec; 24(12):1271–7
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 28–1990. A 72-year-old woman with abdominal pain and an ileocecal radiographic abnormality. N Engl J Med 1990 Jul 12;323(2):113–23
[Clinico-pathological re-examination on the first diagnosis as enterocolitis unclassified] Taguchi Y. Nippon Shokakibyo Gakkai Zasshi 1989 May;86(5):1058–69 (Eng. Abstr.) (Jpn)

REHABILITATION

Quality of life and inflammatory bowel diseases [letter; comment] Tragnone A, et al. Gut 1989 Dec; 30(12):1798–800 Comment on: Gut 1989 Mar;30(3):367–70.

THERAPY

A review of the effects of glutamine-enriched diets on experimentally induced enterocolitis. Rombeau JL. JPEN J Parenter Enteral Nutr 1990 Jul–Aug;14(4 Suppl):100S–105S

VETERINARY

Protection of weaned rabbits against experimental Escherichia coli O103 intestinal infection by oral formalin-killed vaccine. Camguilhem R, et al. Vet Microbiol 1990 Feb;21(4):353–62
Enterocecocolitis associated with intraepithelial Campylobacter-like bacteria in rabbits (Oryctolagus cuniculus). Schoeb TR, et al. Vet Pathol 1990 Mar; 27(2):73–80
Regional eosinophilic coloproctitis, typhlitis and ileitis in a dog. van der Gaag I, et al. Vet Q 1990 Jan;12(1):1–6

ENTEROCOLITIS, NECROTIZING see ENTEROCOLITIS, PSEUDOMEMBRANOUS

ENTEROCOLITIS, PSEUDOMEMBRANOUS

Necrotizing enterocolitis in term neonates. Andrews DA, et al. Am J Surg 1990 May;159(5):507–9
Neonatal necrotizing enterocolitis: current concepts and controversies. Proceedings of the Second International Wexner Symposium on Developmental Gastroenterology and Nutrition. September 25–27, 1989. J Pediatr 1990 Jul; 117(1 Pt 2):S1–74
Postoperative necrotizing enterocolitis (NEC) in 10 of 54 (18.5%) infants with gastroschisis [letter] Oldham KT. J Pediatr Surg 1989 Nov;24(11):1214
Severe pseudomembranous enterocolitis in a child: case report and literature review. Zwiener RJ, et al. Pediatr Infect Dis J 1989 Dec;8(12):876–82 (63 ref.)

CHEMICALLY INDUCED

Clostridium difficile colitis associated with ofloxacin therapy. Dan M, et al. Am J Med 1989 Oct;87(4):479
Clindamycin and dentists [letter] Rippon R. Br Dent J 1990 May 5;168(9):348
Methylxanthines and necrotizing enterocolitis revisited [editorial] Nowicki PT, et al. J Pediatr Gastroenterol Nutr 1989 Aug;9(2):137–8
Inappropriate antibiotic use and the development of Clostridium difficile colitis. Yarinsky S, et al. W V Med J 1990 Jun;86(6):239–42
[Pseudomembranous colitis under administration of norfloxacin] Loffeld RJ, et al. Ned Tijdschr Geneeskd 1990 Jan 13;134(2):83 (Dut)
[Antibiotic associated diarrhea] Levecq H, et al. Ann Gastroenterol Hepatol (Paris) 1990 Jun;26(4):147–56 (Fre)
[Pseudomembranous colitis caused by ofloxacin (letter)] Gineston JL, et al. Gastroenterol Clin Biol 1989 Aug–Sep; 13(8–9):745 (Fre)
[Pseudomembranous colitis caused by ofloxacin (letter)] Roblin X, et al. Presse Med 1990 May 12;19(19):922 (Fre)
[Clostridium difficile enterocolitis in subjects treated with wide-spectrum antibiotics] Colatutto A, et al. Minerva Med 1989 Dec;80(12):1331–4 (Eng. Abstr.) (Ita)
[Side effects of cefoperazone (third-generation cephalosporin) in a child with acute lymphoblastic leukemia] Koehler M, et al. Pediatr Pol 1989 Jul; 64(7):497–9 (Pol)
[Low incidence of pseudomembranous colitis associated with antibiotics at a general hospital in Lima] Sánchez E, et al. Rev Esp Enferm Dig 1990 Feb;77(2):120–4 (Eng. Abstr.) (Spa)

COMPLICATIONS

Relapsing Clostridium difficile colitis and Reiter's syndrome. Hayward RS, et al. Am J Gastroenterol 1990 Jun; 85(6):752–6
Clostridium difficile colitis in the hospital setting: a potentially explosive problem [editorial] Stratton CW. Infect Control Hosp Epidemiol 1990 Jun;11(6):281–2
[Portal venous gas and necrotizing enterocolitis. Apropos of a case diagnosed by x-ray computed tomography] Forte J, et al. J Radiol 1989 Dec;70(12):735–7 (Eng. Abstr.) (Fre)

DIAGNOSIS

High incidence of false positives by a latex agglutination test for the diagnosis of Clostridium difficile associated colitis in compromised patients. Qadri SM, et al. Diagn Microbiol Infect Dis 1989 Jul–Aug;12(4):291–4
Postoperative abdominal pain and diarrhea. Glatt AE. Hosp Pract [Off] 1990 Jan 15;25(1):46, 48, 50
Sonographic findings in necrotizing enterocolitis with paucity of abdominal gas as the initial symptom. Weinberg B, et al. Mt Sinai J Med 1989 Sep;56(4):330–3
[A rapid test for detecting Clostridium difficile] Karsch W, et al. Z Gesamte Hyg 1989 Oct;35(10):606–7 (Eng. Abstr.) (Ger)

DRUG THERAPY

Antibiotic-associated pseudomembranous colitis [letter] Oh T, et al. Am J Dis Child 1990 May;144(5):526
The role of anion-exchange resins in the treatment of antibiotic-associated pseudomembranous colitis [editorial] Ariano RE, et al. Can Med Assoc J 1990 May 15; 142(10):1049–51
Treatment of Clostridium difficile diarrhea. Med Lett Drugs Ther 1989 Oct 20;31(803):94–5
Effect of bismuth subsalicylate on Clostridium difficile colitis in hamsters. Chang TW, et al. Rev Infect Dis 1990 Jan–Feb; 12 Suppl 1:S57–8

EPIDEMIOLOGY

Factors associated with age of onset of necrotizing enterocolitis. Covert RF, et al. Am J Perinatol 1989 Oct; 6(4):455–60
Risk factors for Clostridium difficile carriage and C. difficile-associated diarrhea in a cohort of hospitalized patients. McFarland LV, et al. J Infect Dis 1990 Sep; 162(3):678–84
Necrotizing enterocolitis in multiple-birth infants. Powell RW, et al. J Pediatr Surg 1990 Mar;25(3):319–21
A review of 36 babies with necrotizing enterocolitis. Ali Z. J Trop Pediatr 1989 Dec;35(6):274–6
Epidemiology of necrotising enterocolitis in Malaysian neonates. Boo NY, et al. Singapore Med J 1989 Oct; 30(5):444–8
Update on pseudomembranous colitis. Silva J Jr. West J Med 1989 Dec;151(6):644–8 (37 ref.)

ETIOLOGY

Intestinal post-ischemic reperfusion injury: studies with neonatal necrotizing enterocolitis. Cassutto BH, et al. Acta Physiol Hung 1989;73(2–3):363–9
Necrotizing enterocolitis after intravenous immunoglobulin treatment for neonatal isoimmune thrombocytopenia. Merlob P, et al. Eur J Pediatr 1990 Mar;149(6):432–3
Hypoxia causes ischemic bowel necrosis in rats: the role of platelet-activating factor (PAF-acether). Caplan MS, et al. Gastroenterology 1990 Oct;99(4):979–86
Risk factors for late-onset necrotizing enterocolitis. Vinocur P, et al. Indiana Med 1990 Jul;83(7):478–80
Risk factors for Clostridium difficile toxin-associated diarrhea. Brown E, et al. Infect Control Hosp Epidemiol 1990 Jun;11(6):283–90
Intravenous metronidazole and Clostridium difficile-associated diarrhea or colitis [letter] Johnson S, et al. J Infect Dis 1989 Dec;160(6):1087–8
Necrotizing enterocolitis: role of platelet activating factor, endotoxin, and tumor necrosis factor. Caplan MS, et al. J Pediatr 1990 Jul;117(1 Pt 2):S47–51 (16 ref.)
Intraluminal pathogenesis of necrotizing enterocolitis. Clark DA, et al. J Pediatr 1990 Jul;117(1 Pt 2):S64–7 (25 ref.)
Models of the pathogenesis of necrotizing enterocolitis. Kliegman RM. J Pediatr 1990 Jul;117(1 Pt 2):S2–5 (45 ref.)
A unifying hypothesis for pathogenesis and prevention of necrotizing enterocolitis. Kosloske AM. J Pediatr 1990 Jul; 117(1 Pt 2):S68–74 (58 ref.)
Role of bacterial toxins in neonatal necrotizing enterocolitis. Scheifele DW. J Pediatr 1990 Jul;117(1 Pt 2):S44–6 (27 ref.)
Necrotizing enterocolitis: feeding in endemic and epidemic periods. Zabielski PB, et al. JPEN J Parenter Enteral Nutr 1989 Sep–Oct;13(5):520–4
Nosocomial Clostridium difficile colonisation and disease. Johnson S, et al. Lancet 1990 Jul 14;336(8707):97–100
Necrotising enterocolitis in the newborn infant. Ho NK. Singapore Med J 1989 Oct;30(5):431–2
[Pseudomembranous colitis caused by antibiotic therapy during aorto-iliac surgery] Barile C, et al. Minerva Chir 1990 May 31;45(10):747–50 (Eng. Abstr.) (Ita)
[Neutropenic enterocolitis in adults with acute leukemia] Uzuka Y, et al. Rinsho Ketsueki 1989 Jul;30(7):980–7 (Eng. Abstr.) (Jpn)

IMMUNOLOGY

Gastrointestinal host defense and necrotizing enterocolitis. Udall JN Jr. J Pediatr 1990 Jul;117(1 Pt 2):S33–43 (117

ref.)

MICROBIOLOGY

Neonatal necrotizing enterocolitis associated with delta toxin-producing methicillin-resistant Staphylococcus aureus. Overturf GD, et al. **Pediatr Infect Dis J** 1990 Feb; 9(2):88-91

Clostridium difficile: clinical considerations. Bartlett JG. **Rev Infect Dis** 1990 Jan-Feb;12 Suppl 2:S243-51 (41 ref.)

[Epidemiological study of the pathogenicity of Clostridium difficile using a new serogrouping method] Delmée M. **Acta Gastroenterol Belg** 1988 Nov-Dec;51(6):450-8 (Eng. Abstr.) (Fre)

PATHOLOGY

Neonatal necrotizing enterocolitis. Karan S. **Indian Pediatr** 1988 Oct;25 Suppl:87-93

Pathology of neonatal necrotizing enterocolitis: a ten-year experience. Ballance WA, et al. **J Pediatr** 1990 Jul;117(1 Pt 2):S6-13

Pseudomembranous enterocolitis--a potentially lethal disease. Azmy AA, et al. **J Pediatr Surg** 1990 Apr; 25(4):453-6

Severity of necrotizing enterocolitis: influence on outcome at 2 years of age. Walsh MC, et al. **Pediatrics** 1989 Nov; 84(5):808-14

PHYSIOPATHOLOGY

Interrelationships between digestive proteolytic activities and production and quantitation of toxins in pseudomembranous colitis induced by Clostridium difficile in gnotobiotic mice. Corthier G, et al. **Infect Immun** 1989 Dec;57(12):3922-7

Gut hormones and regulatory peptides in relation to enteral feeding, gastroenteritis, and necrotizing enterocolitis in infancy. Aynsley-Green A, et al. **J Pediatr** 1990 Jul;117(1 Pt 2):S24-32 (49 ref.)

Role of platelet activating factor and tumor necrosis factor-alpha in neonatal necrotizing enterocolitis. Caplan MS, et al. **J Pediatr** 1990 Jun;116(6):960-4

Colonic fermentation of carbohydrate in the premature infant: possible relevance to necrotizing enterocolitis. Kien CL. **J Pediatr** 1990 Jul;117(1 Pt 2):S52-8 (65 ref.)

Motility of the small intestine in preterm infants who later have necrotizing enterocolitis. Morriss FH Jr, et al. **J Pediatr** 1990 Jul;117(1 Pt 2):S20-3

Effects of bacterial fermentation end products on intestinal function: implications for intestinal dysfunction. Murray RD. **J Pediatr** 1990 Jul;117(1 Pt 2):S59-63 (30 ref.)

Intestinal ischemia and necrotizing enterocolitis. Nowicki P. **J Pediatr** 1990 Jul;117(1 Pt 2):S14-9 (31 ref.)

PREVENTION & CONTROL

Breath hydrogen in preterm infants [letter; comment] Stevenson DK. **Am J Dis Child** 1989 Nov;143(11):1262-3 Comment on: Am J Dis Child 1989 Feb;143(2):156-9.

Prospective, controlled study of vinyl glove use to interrupt Clostridium difficile nosocomial transmission. Johnson S, et al. **Am J Med** 1990 Feb;88(2):137-40

Prevention of further recurrences of Clostridium difficile colitis with Saccharomyces boulardii. Kimmey MB, et al. **Dig Dis Sci** 1990 Jul;35(7):897-901

Prevention of Clostridium difficile-induced experimental pseudomembranous colitis by Saccharomyces boulardii: a scanning electron microscopic and microbiological study. Castex F, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1085-9

Prenatal and postnatal corticosteroid therapy to prevent neonatal necrotizing enterocolitis: a controlled trial. Halac E, et al. **J Pediatr** 1990 Jul;117(1 Pt 1):132-8

RADIOGRAPHY

Diagnostic quality of portable abdominal radiographs in neonates with necrotizing enterocolitis: digitized vs nondigitized images. gross GW, et al. **AJR Am J Roentgenol** 1990 Apr;154(4):779-83

Pre-operative radiological diagnosis of acute necrotizing enteritis in systemic lupus erythematodes. Decrop E, et al. **J Belge Radiol** 1990 Jan;73(1):31-5

Neonatal necrotizing enterocolitis: air in Morison pouch. Brill PW, et al. **Radiology** 1990 Feb;174(2):469-71

SURGERY

Results of surgical treatment of neonatal necrotizing enterocolitis. Jackman S, et al. **Br J Surg** 1990 Feb; 77(2):146-8

A standard of comparison for acute surgical necrotizing enterocolitis. Ross MN, et al. **J Pediatr Surg** 1989 Oct; 24(10):998-1002

Neutrophil ratio, ascites, and timing of surgery in infants with necrotising enterocolitis [letter] Pohlandt F, et al. **Lancet** 1990 Mar 24;335(8691):729

Peritoneal drainage and ileostomy as a treatment for the acute necrotising enterocolitis. Legat C, et al. **Z Kinderchir** 1989 Oct;44(5):315-7

[Ischemic colitis in surgery] Cormier JM, et al. **Ann Gastroenterol Hepatol (Paris)** 1990 Jan-Feb;26(1):9-13; discussion 13-4 (23 ref.) (Fre)

[A need for surgical treatment in necrotizing enterocolitis?] Hümmer HP, et al. **Z Kinderchir** 1990 Feb;45(1):46-9 (Eng. Abstr.) (Ger)

[Total colectomy in necrotizing enterocolitis] Vilariño Mosquera A, et al. **An Esp Pediatr** 1989 Dec;31(6):542-4 (Eng. Abstr.) (Spa)

THERAPY

Treatment of recurrent Clostridium difficile colitis with vancomycin and Saccharomyces boulardii. Surawicz CM, et al. **Am J Gastroenterol** 1989 Oct;84(10):1285-7

ENTEROGASTRONE see under **GASTROINTESTINAL HORMONES**

ENTEROGLUCAGON see under **GASTROINTESTINAL HORMONES**

ENTEROHEPATIC CIRCULATION

Enterohepatic circulation of T-2 toxin metabolites in the rat. Coddington KA, et al. **Drug Metab Dispos** 1989 Nov-Dec; 17(6):600-5

A reversible clearance model for the enterohepatic circulation of drug and conjugate metabolite pair. Semmes RL, et al. **Drug Metab Dispos** 1990 Jan-Feb;18(1):80-7

Indirect assessment of the enterohepatic recirculation of piroxicam and tenoxicam. Benveniste C, et al. **Eur J Clin Pharmacol** 1990;38(6):547-9

Minimal biliary excretion and enterohepatic recirculation of lormetazepam in man as investigated by a new nasobiliary drainage technique. Hellstern A, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Jun;28(6):256-61

Mean residence time for drugs subject to enterohepatic cycling. Shepard TA, et al. **J Pharmacokinet Biopharm** 1989 Jun;17(3):327-45

Pharmacokinetics of methylergometrine in the rat: evidence for enterohepatic recirculation by a linked-rat model. Bredberg U, et al. **Pharm Res** 1990 Jan;7(1):14-20

The biliary elimination and enterohepatic circulation of ibuprofen in rats. Dietzel K, et al. **Pharm Res** 1990 Jan; 7(1):87-90

[Enterohepatic circulation of bile acids and abnormalities] Oosuga T. **Nippon Naika Gakkai Zasshi** 1990 Mar 10; 79(3):346-9 (Jpn)

[The effect of alimentary hypercholesterolemia on the level of lipids and essential fatty acids in rabbit enterohepatic circulation] Bogdarin IuA, et al. **Vopr Med Khim** 1990 Jan-Feb;36(1):33-7 (Eng. Abstr.) (Rus)

DRUG EFFECTS

Effects of anticonvulsants on plasma levels and entero-hepatic circulation of valproic acid and on hepatic drug metabolizing enzyme activities in rats. Ogiso T, et al. **J Pharmacobiodyn** 1989 May;12(5):255-63

[The effect of a diet enriched with food fibers and polyunsaturated fatty acids on the composition of the lipid components in the enterohepatic circulation system in rabbits with cholestasis] Bogdarin IuA, et al. **Vopr Pitan** 1990 Jan-Feb;(1):44-8 (Eng. Abstr.) (Rus)

PHYSIOLOGY

Enterohepatic circulation of sulphur in female goats. Halais C, et al. **Br J Nutr** 1990 Mar;63(2):239-48

Enterohepatic circulation of triiodothyronine (T3) in rats: importance of the microflora for the liberation and reabsorption of T3 from biliary T3 conjugates. Rutgers M, et al. **Endocrinology** 1989 Dec;125(6):2822-30

[Bile salts. Physiology of the enterohepatic circulation, its disorders and functional studies] Fiasse R. **Acta Gastroenterol Belg** 1988 Nov-Dec;51(6):491-500 (29 ref.) (Eng. Abstr.) (Fre)

ENTEROPATHY, EXUDATIVE see **PROTEIN-LOSING ENTEROPATHIES**

ENTEROPEPTIDASE see under **SERINE PROTEINASES**

ENTEROSTOMY

Should intestinal continuity be restored after massive intestinal resection? Nguyen BT, et al. **Am J Surg** 1989 Dec;158(6):577-9; discussion 579-80

The efficacy of hepatoportoenterostomy in biliary atresia. Grosfeld JL, et al. **Surgery** 1989 Oct;106(4):692-700; discussion 700-1

[A frequent complication of enterostomy: prolapse] Barbuscia M, et al. **Minerva Chir** 1990 May 15;45(9):635-8 (14 ref.) (Eng. Abstr.) (Ita)

[Experimental studies of the significance of pancreatico-enterostomy on the chronic pancreatitis] Miyasaka Y. **Hokkaido Igaku Zasshi** 1990 May;65(3):285-97 (Eng. Abstr.) (Jpn)

[Results of the surgical treatment of patients with chronic duodenal obstruction] Dudenko FI, et al. **Klin Khir** 1989; (8):28-30 (Eng. Abstr.) (Rus)

[Selective proximal vagotomy with stomach-draining operations in the treatment of decompensated pyloric stenosis caused by ulcer] Nikonenko AS, et al. **Klin Khir** 1989;(8):51-3 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Liver abscesses: successful treatment with choledochoduodenostomy. Fischer MJ. **South Med J** 1990 Feb;83(2):253-4 (6 ref.)

[Cecostomy can not be recommended as a routine method in the treatment of acute left-sided obstructive colon cancer] Kristiansen VB, et al. **Ugeskr Laeger** 1990 Jan 8; 152(2):101-3 (Eng. Abstr.) (Dan)

[Stoma complications. Experience of a care center for enterostomal patients] Aricò A, et al. **Minerva Chir** 1990 Mar 15;45(5):253-6 (Eng. Abstr.) (Ita)

[Infected cecostomy treated with Riebler's dental paste] Bogacki J, et al. **Wiad Lek** 1989 Aug 15-Sep 15; 42(16-18):980-2 (Eng. Abstr.) (Pol)

INSTRUMENTATION

Directable cannula for gastrojejunal catheterization [letter; comment] Pedersen MI, et al. **AJR Am J Roentgenol** 1990 Jan;154(1):203 Comment on: AJR Am J Roentgenol 1989 Jun;152(6):1346.

Percutaneous enterostomy with the Cope suture anchor. Coleman CC, et al. **Radiology** 1990 Mar;174(3 Pt 1):889-91

METHODS

Thirty years' experience with biliary tract reconstruction by hepaticoenterostomy and transhepatic T tube. Muñoz R, et al. **Am J Surg** 1990 Apr;159(4):405-10

Tube enterostomy after small bowel resection. Rappaport W, et al. **Am J Surg** 1990 Feb;159(2):256-7

Free microneurovascular gracilis muscle transfer in the dog for enterostomal sphincter construction and control: an experimental study. Merrell JC, et al. **Ann Plast Surg** 1986 Jul;17(1):82-6

Percutaneous endoscopic duodenostomy: a misnomer? [letter; comment] Alberti-Flor JJ. **Gastrointest Endosc** 1989 Nov-Dec;35(6):582 Comment on: Gastrointest Endosc 1989 Mar-Apr;35(2):104-5.

Enterostomy catheter exchange using new polymer-coated guide wire: technical note. Markowitz DM, et al. **Gastrointest Radiol** 1990 Winter;15(1):64-5

A modified version of Herrera's method for creating a pancreatic fistula in dogs. Nishiwaki H, et al. **Jpn J Surg** 1990 Jul;20(4):418-23

Percutaneous cecostomy: controlled transperitoneal approach. Morrison MC, et al. **Radiology** 1990 Aug; 176(2):574-6

Percutaneous cecostomy for Ogilvie syndrome: laboratory observations and clinical experience. vanSonnenberg E, et al. **Radiology** 1990 Jun;175(3):679-82

Technical aids in surgery. Gastroduodenostomy for the "difficult" duodenum. Schein M, et al. **S Afr J Surg** 1990 Mar;28(1):16-7

Duodenojejunostomy as an alternative to anastomosis of the small intestine at the ligament of Treitz. Nauta RJ. **Surg Gynecol Obstet** 1990 Feb;170(2):172-4

Pancreaticoduodenectomy (Whipple resection) in the treatment of chronic pancreatitis. Howard JM, et al. **World J Surg** 1990 Jan-Feb;14(1):77-82

Endoscopic cysto-enterostomy of cysts of chronic calcifying pancreatitis. Sahel J. **Z Gastroenterol** 1990 Mar;28(3):170-2

[2 classical contraindications for enteroplasty in spina bifida] Penders L, et al. **Acta Urol Belg** 1990;58(1):87-94 (Eng. Abstr.) (Fre)

[Continent urinary diversion in children: enterocystoplasty + appendiceo-cutaneostomy] Pintér A, et al. **Orv Hetil** 1990 Apr 29;131(17):913-7 (Eng. Abstr.) (Hun)

[Corrective and reconstructive operations in post-vagotomy syndromes] Vakhidov VV, et al. **Khirurgiia (Mosk)** 1990 Feb;(2):73-7 (Eng. Abstr.) (Rus)

[Methods of surgical treatment of common bile duct obstruction] Nurmukhamedov RM, et al. **Vestn Khir** 1989 Dec;144(12):19-21 (Rus)

REHABILITATION

[Rehabilitation of the ostomate] Tamura T. **Gan To Kagaku Ryoho** 1990 Apr;17(4 Pt 2):819-21 (4 ref.) (Jpn)

[Problems of closure of two-passage colostomy] Voro'bev GI, et al. **Vestn Khir** 1989 May;142(5):134-8 (44 ref.) (Rus)

VETERINARY

Caecal dilatation [letter; comment] Harrington MG. **Vet Rec** 1989 Nov 4;125(19):490 Comment on: Vet Rec 1989 Oct 21;125(17):430-3.

ENTEROTOXEMIA see under **CLOSTRIDIUM INFECTIONS**

ENTEROTOXINS

see related

STAPHYLOCOCCAL FOOD POISONING

Surface hydrophobicity and electrophoretic mobilities of staphylococcal exotoxins with special reference to toxic shock syndrome toxin-1. Eriksson KO, et al. **APMIS** 1989 Dec;97(12):1081-7

DOT-enzyme linked immunosorbent assay for detection of Clostridium perfringens type A enterotoxin. Mehta R, et al. **Int J Food Microbiol** 1989 Aug;9(1):45-50

The staphylococcal enterotoxins and their relatives. Marrack P, et al. **Science** 1990 Jun 1;248(4959):1066

[Analyses of pathogenic factors in bacteria--bacterial toxins:

clostridial toxins, e.g. C. tetani neurotoxins and C. perfringens type A enterotoxin] Matsuda M. **Nippon Saikingaku Zasshi** 1989 Jul;44(4):649–67 (148 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

[Lowering of bactericidal activity of mouse peritoneal macrophages under combined use of staphylococcal enterotoxin type A and endotoxin] Riabichenko EV, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):591–3 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Rabbit plasma fibronectin levels associated with Staphylococcus aureus enterotoxin B: an acute-phase reaction. Bawdon RE, et al. **Gynecol Obstet Invest** 1989; 28(4):191–4

Staphylococcal enterotoxins A and C causing toxic shock syndrome [letter] Yagoob M, et al. **J Infect** 1990 Mar; 20(2):176–8

[Hemolytic–uremic syndrome in infants due to verotoxin–producing Escherichia coli] Karch H, et al. **Dtsch Med Wochenschr** 1990 Mar 30;115(13):489–95 (Eng. Abstr.) **(Ger)**

ANALYSIS

Vero cell assay for rapid detection of Clostridium perfringens enterotoxin. Mahony DE, et al. **Appl Environ Microbiol** 1989 Sep;55(9):2141–3

Demonstration of enterotoxigenic Escherichia coli in diarrheic broiler chicks. Joya JE, et al. **Eur J Epidemiol** 1990 Mar;6(1):88–90

Charge heterogeneity of heat–labile enterotoxins from human enterotoxigenic Escherichia coli. Tsuji T, et al. **FEMS Microbiol Lett** 1989 Oct 1;52(1–2):1–5

Sensitivity of the different tests of enterotoxigenicity of Escherichia coli and their correlation. Thawani G, et al. **Indian J Med Sci** 1990 Feb;44(2):29–32

Production of a monoclonal antibody to Vibrio cholerae non–O1 heat–stable enterotoxin (ST) which is cross–reactive with Yersinia enterocolitica ST. Takeda T, et al. **Infect Immun** 1990 Sep;58(9):2755–9

Analytical methods for Staphylococcus aureus. Bergdoll MS. **Int J Food Microbiol** 1990 Mar;10(2):91–9 (30 ref.)

Estimation of human dose of staphylococcal enterotoxin A from a large outbreak of staphylococcal food poisoning involving chocolate milk. Evenson ML, et al. **Int J Food Microbiol** 1988 Dec 31;7(4):311–6

Evaluation of enzyme–linked immunosorbent assay (ELISA) for detection of staphylococcal enterotoxin in foods. Ewald S. **Int J Food Microbiol** 1988 Mar;6(2):141–53

DOT–enzyme linked immunosorbent assay for detection of Clostridium perfringens type A enterotoxin. Mehta R, et al. **Int J Food Microbiol** 1989 Aug;9(1):45–50

Detection of staphylococcal enterotoxins in dairy products by the reversed passive latex agglutination (SET–RPLA) kit. Rose SA, et al. **Int J Food Microbiol** 1989 Feb; 8(1):65–72

The detection of enterotoxin and toxic shock syndrome toxin–1 production by strains of Staphylococcus aureus with commercial RPLA kits. Wieneke AA. **Int J Food Microbiol** 1988 Aug;7(1):25–30

ELISA with enzyme amplification for sensitive detection of staphylococcal enterotoxins in food. Windemann H, et al. **Int J Food Microbiol** 1989 Feb;8(1):25–34

Rapid detection of staphylococcal enterotoxins in foods with a modification of the reversed passive latex agglutination assay. Bankes P, et al. **J Appl Bacteriol** 1989 Oct;67(4):395–9

Mutational analysis of the Shiga toxin and Shiga–like toxin II enzymatic subunits. Jackson MP, et al. **J Bacteriol** 1990 Jun;172(6):3346–50

Comparison of three assay systems for detection of enterotoxigenic Escherichia coli heat–stable enterotoxin. Cryan B. **J Clin Microbiol** 1990 Apr;28(4):792–4

Assay of heat–labile enterotoxins by their ADP–ribosyltransferase activities. Narayanan J, et al. **J Clin Microbiol** 1989 Nov;27(11):2414–9

Immunoblots for detection of toxic shock syndrome toxin 1 produced by Staphylococcus aureus. Weckbach LS, et al. **J Clin Microbiol** 1990 Jun;28(6):1488–90

Detection of staphylococcal enterotoxin B. A comparative study of ELISA and ELIFA systems. Dupont H, et al. **J Immunol Methods** 1990 Apr 17;128(2):287–91

Enterotoxins and adhesins of enterotoxigenic Escherichia coli: are they risk factors for acute diarrhea in the community? López–Vidal Y, et al. **J Infect Dis** 1990 Aug; 162(2):442–7

A method for detecting Shiga toxin and Shiga–like toxin–I in pure and mixed culture. Ashkenazi S, et al. **J Med Microbiol** 1990 Aug;32(4):255–61

Immunobiological relationships of the enterotoxins produced by cholera toxin gene–positive (CT+) and –negative (CT–) strains of Vibrio cholerae O1. Saha S, et al. **J Med Microbiol** 1990 May;32(1):33–7

Development of Vero cell miniculture assay for detection of heat–labile enterotoxin of Escherichia coli and its significance. Choudhry MA, et al. **J Trop Med Hyg** 1989 Dec;92(6):379–82

Cholera–like enterotoxin in certain Campylobacter jejuni strains: some observations. Hariharan H, et al. **Microbiologica** 1990 Jan;13(1):7–9

Enzyme–linked immunosorbent assay for detection of staphylococcal enterotoxins in incriminated foods and clinical specimens from outbreaks of food poisoning. Shinagawa K, et al. **Nippon Juigaku Zasshi** 1990 Aug; 52(4):847–50

[Detection of heat–labile enterotoxin produced by E. coli with reversed passive latex agglutination] Wang FI, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1989 May;22(2):145–9 (Eng. Abstr.) **(Chi)**

[The detection of a choleriform thermolabile enterotoxin in clinical strains of Proteus isolated in different infections] Gabidullin ZG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):14–6 (Eng. Abstr.) **(Rus)**

[Detection of staphylococcal enterotoxins in milk and milk products] Grieger C, et al. **Vet Med (Praha)** 1990 Mar; 35(3):171–8 (Eng. Abstr.) **(Slo)**

ANTAGONISTS & INHIBITORS

Inhibition of Clostridium difficile toxin A and B by 1,2–cyclohexanedione modification of an arginine residue. Balfanz J, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):1364–70

[Enterosorption in chronic enterocolitis] Shchedrunov VV, et al. **Sov Med** 1989;(11):24–6 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Toxic shock syndrome toxin–1 (TSST–1) production in staphylococcal infections and serological implications with patients and healthy controls. Naidu AS, et al. **Acta Microbiol Hung** 1989;36(1):19–24

Production of staphylococcal enterotoxins C1 and C2 and thermonuclease throughout the growth cycle. Otero A, et al. **Appl Environ Microbiol** 1990 Feb;56(2):555–9

Enterotoxin production by staphylococci isolated from healthy goats. Valle J, et al. **Appl Environ Microbiol** 1990 May;56(5):1323–6

Verotoxin–producing Escherichia coli in ground beef—Manitoba. Sekla L, et al. **Can Dis Wkly Rep** 1990 Jun 2;16(22):103–5 **(Eng, Fre)**

Enterotoxigenic Escherichia coli in the domestic environment of a Malaysian village. Vadivelu J, et al. **Epidemiol Infect** 1989 Dec;103(3):497–511

Production and characterisation of Campylobacter jejuni enterotoxin in a synthetic medium and its assay in rat ileal loops. Saha SK, et al. **FEMS Microbiol Lett** 1990 Feb; 55(3):333–8

Production of toxic shock syndrome–like illness in rabbits by Staphylococcus aureus D4508: association with enterotoxin A. McCollister BD, et al. **Infect Immun** 1990 Jul;58(7):2067–70

Effect of environmental conditions on production of toxic shock syndrome toxin 1 by Staphylococcus aureus. Wong AC, et al. **Infect Immun** 1990 Apr;58(4):1026–9

Effect of water activity on growth and enterotoxin D production of Staphylococcus aureus. Ewald S, et al. **Int J Food Microbiol** 1988 Feb;6(1):25–30

Present state of knowledge on staphylococcal intoxication. Genigeorgis CA. **Int J Food Microbiol** 1989 Dec; 9(4):327–60 (256 ref.)

Production of enterotoxins and thermonuclease by Staphylococcus aureus in cooked egg–noodles. Göckler L, et al. **Int J Food Microbiol** 1988 Mar;6(2):127–39

Clostridium perfringens toxins involved in food poisoning. Granum PE. **Int J Food Microbiol** 1990 Mar;10(2):101–11 (48 ref.)

Production and properties of crude enterotoxin of Pseudomonas aeruginosa. Grover S, et al. **Int J Food Microbiol** 1990 May;10(3–4):201–8

Enterotoxigenicity of Staphylococcus intermedius of canine origin. Hirooka EY, et al. **Int J Food Microbiol** 1988 Dec; 7(3):185–91

Enterotoxigenicity and drug sensitivity of Aeromonas hydrophila isolated from well water in Sweden: a case study. Krovacek K, et al. **Int J Food Microbiol** 1989 May; 8(2):149–54

Production of enterotoxin A and thermonuclease by Staphylococcus aureus in legumes. Neumayr L, et al. **Int J Food Microbiol** 1990 May;10(3–4):225–33

Effect of environmental conditions during soya–bean fermentation on the growth of Staphylococcus aureus and production and thermal stability of enterotoxins A and B. Nout MJ, et al. **Int J Food Microbiol** 1988 Dec 31; 7(4):299–309

Effect of growth of a commercial starter culture on growth of Staphylococcus aureus and thermonuclease and enterotoxins (C1 and C2) production in broth cultures. Otero A, et al. **Int J Food Microbiol** 1988 Mar;6(2):107–14

Incidence of sporadic infections due to enterotoxigenic Escherichia coli (ETEC) in the population of Hamburg, north Germany. Bockemühl J, et al. **Int J Med Microbiol** 1989 Nov;272(1):58–64

Enterotoxic, cytotoxic, necrotic and lethal activities in cell–free extracts of Salmonella strains isolated from humans. González EA, et al. **Int J Med Microbiol** 1989 Sep;271(3):281–92

Psychrotrophic strains of Bacillus cereus producing enterotoxin. van Netten P, et al. **J Appl Bacteriol** 1990 Jul; 69(1):73–9

Cytotoxin and enterotoxin production as factors delineating enteropathogenicity of Aeromonas caviae. Namdari H, et al. **J Clin Microbiol** 1990 Aug;28(8):1796–8

Synthetic DNA probes for detection of enterotoxigenic Clostridium perfringens strains isolated from outbreaks of food poisoning. Van Damme–Jongsten M, et al. **J Clin Microbiol** 1990 Jan;28(1):131–3

Investigation by improved syringe method of effect of tampons on production in vitro of toxic shock syndrome toxin 1 by Staphylococcus aureus. Wong AC, et al. **J Clin Microbiol** 1989 Nov;27(11):2482–7

Growth and production of enterotoxin A by Staphylococcus aureus in cream. Halpin–Dohnalek MI, et al. **J Dairy Sci** 1989 Sep;72(9):2266–75

Correlation between toxin formation and diarrhoea in patients infected with Aeromonas. Wadström T, et al. **J Diarrhoeal Dis Res** 1988 Jun;6(2):113–9 (38 ref.)

Incidence of enterotoxin producing Staphylococcus aureus among pyogenic skin infections. Naidu S, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(3):277–82

Characterization of a new putative colonization factor (CS17) from a human enterotoxigenic Escherichia coli of serotype O114:H21 which produces only heat–labile enterotoxin. McConnell MM, et al. **J Infect Dis** 1990 Feb;161(2):343–7

Production of "virulence factors" by "epidemic" methicillin–resistant Staphylococcus aureus in vitro. Jordens JZ, et al. **J Med Microbiol** 1989 Dec;30(4):245–52

A study of the incidence of enterotoxigenic Escherichia coli (ETEC) secreting heat–labile toxin in two communities in south–western Nigeria. Ako–Nai AK, et al. **J Trop Med Hyg** 1990 Apr;93(2):116–8

Toxigenic Escherichia coli associated with sudden infant death syndrome [letter] Bettelheim KA, et al. **Med J Aust** 1989 Nov 6;151(9):538

Production, purification and identification of the staphylococcal enterotoxins. Tranter HS, et al. **Soc Appl Bacteriol Symp Ser** 1990;19:109S–122S (35 ref.)

ETEC–like strains from cattle [letter] Pohl P, et al. **Vet Rec** 1989 Sep 30;125(14):382

[Effect of culture media on the production of cholera enterotoxin] Guechi Z. **Arch Inst Pasteur Alger** 1986; 55:25–31 (Eng. Abstr.) **(Fre)**

[Comparative study of the production of enterotoxin by Vibrio cholerae 01 and Vibrio cholerae non–01] Guechi Z. **Arch Inst Pasteur Alger** 1986;55:33–40 (Eng. Abstr.) **(Fre)**

[Escherichia coli producing thermostable toxin ST. Detection in stools of children with and without diarrhea] Zoukh K. **Arch Inst Pasteur Alger** 1986;55:79–89 (Eng. Abstr.) **(Fre)**

[Characterization of the enterotoxigenic strains of Escherichia coli isolated from children with diarrhea in Popular Democratic Republic Lao] Germani Y, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):465–75 (Eng. Abstr.) **(Fre)**

[Biochemical characteristics, growth on selective media, antimicrobial susceptibility, and diarrheagenic toxin production of enteroinvasive Escherichia coli] Matsushita S, et al. **Kansenshogaku Zasshi** 1990 Jun;64(6):734–40 (Eng. Abstr.) **(Jpn)**

[Determination of the enterotoxic properties of Bacillus cereus] Stec E. **Przegl Epidemiol** 1989;43(4):355–65 (Eng. Abstr.) **(Pol)**

[The frequency of the production of toxic–shock exotoxin by Staphylococcus aureus strains isolated in the USSR] Pozhar PF, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Aug;(8):3–5 (Eng. Abstr.) **(Rus)**

[New approaches in the prevention of diarrhea caused by Escherichia coli] Cravioto A. **Bol Med Hosp Infant Mex** 1989 Nov;46(11):736–42 (47 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Risk involvement with Staphylococcus aureus exotoxins among pyogenic skin infections with special reference to toxic shock syndrome. Naidu S, et al. **Acta Microbiol Hung** 1989;36(1):7–12

GENETICS

Prevalence of four enterotoxin (STaP, STaH, STb, and LT) and four adhesin subunit (K99, K88, 987P, and F41) genes among Escherichia coli isolates from cattle. Mainil JG, et al. **Am J Vet Res** 1990 Feb;51(2):187–90

Cloning and sequencing of the Clostridium perfringens enterotoxin gene. Van Damme–Jongsten M, et al. **Antonie Van Leeuwenhoek** 1989 Aug;56(2):181–90

Comparison of the synthetic oligonucleotide gene probe and infant mouse bioassay for detection of enterotoxigenic Escherichia coli. Cryan B. **Eur J Clin Microbiol Infect Dis** 1990 Mar;9(3):229–32

Cloning and hyperexpression of a gene encoding the heat–stable toxin of Escherichia coli. Dwarakanath P, et al. **Gene** 1989 Sep 30;81(2):219–26

Mutants of staphylococcal toxic shock syndrome toxin 1: mitogenicity and recognition by a neutralizing monoclonal antibody. Blanco L, et al. **Infect Immun** 1990 Sep; 58(9):3020–8

Nucleotide sequence of yst, the Yersinia enterocolitica gene encoding the heat–stable enterotoxin, and prevalence of the gene among pathogenic and nonpathogenic yersiniae. Delor I, et al. **Infect Immun** 1990 Sep;58(9):2983–8

Molecular characterization of the Clostridium difficile toxin

A gene. Dove CH, et al. **Infect Immun** 1990 Feb;58(2):480–8
Expression of the cloned gene for enterotoxin STb of Escherichia coli. Lawrence RM, et al. **Infect Immun** 1990 Apr;58(4):970–7
Cloning and nucleotide sequence of a heat-stable enterotoxin gene from Vibrio cholerae non-O1 isolated from a patient with traveler's diarrhea. Ogawa A, et al. **Infect Immun** 1990 Oct;58(10):3325–9
Fusion of genes encoding Escherichia coli heat-stable enterotoxin and outer membrane protein OmpC. Saarilahti HT, et al. **Infect Immun** 1989 Nov;57(11):3663–5
Identification of a bacteriophage containing a silent staphylococcal variant enterotoxin gene (sezA+). Soltis MT, et al. **Infect Immun** 1990 Jun;58(6):1614–9
The heat-stable toxin I gene from Escherichia coli 18D. Dallas WS. **J Bacteriol** 1990 Sep;172(9):5490–3
Molecular cloning of the 3' half of the Clostridium perfringens enterotoxin gene and demonstration that this region encodes receptor-binding activity. Hanna PC, et al. **J Bacteriol** 1989 Dec;171(12):6815–20
Synthesis of Escherichia coli heat-stable enterotoxin STp as a pre-pro form and role of the pro sequence in secretion. Okamoto K, et al. **J Bacteriol** 1990 Sep;172(9):5260–5
Role of upstream sequences in the expression of the staphylococcal enterotoxin B gene. Mahmood R, et al. **J Biol Chem** 1990 Mar 15;265(8):4652–6
Minimal deletion of amino acids from the carboxyl terminus of the B subunit of heat-labile enterotoxin causes defects in its assembly and release from the cytoplasmic membrane of Escherichia coli. Sandkvist M, et al. **J Biol Chem** 1990 Sep 5;265(25):15239–44
Use of a synthetic oligonucleotide probe to detect strains of non-aerovar O1 Vibrio cholerae carrying the gene for heat-stable enterotoxin (NAG-ST). Hoge CW, et al. **J Clin Microbiol** 1990 Jun;28(6):1473–6
Single primer pair for amplifying segments of distinct Shiga-like-toxin genes by polymerase chain reaction. Karch H, et al. **J Clin Microbiol** 1989 Dec;27(12):2751–7
Oligonucleotide probes for detection and differentiation of Staphylococcus aureus strains containing genes for enterotoxins A, B, and C and toxic shock syndrome toxin 1. Neill RJ, et al. **J Clin Microbiol** 1990 Jul;28(7):1514–8
Detection with synthetic oligonucleotide probes of nucleotide sequence variations in the genes encoding enterotoxins of Escherichia coli. Nishibuchi M, et al. **J Clin Microbiol** 1989 Oct;27(10):2272–6
Rapid and specific detection of verotoxin genes in Escherichia coli by the polymerase chain reaction [published erratum appears in J Clin Microbiol 1990 Jun;28(6):1491] Pollard DR, et al. **J Clin Microbiol** 1990 Mar;28(3):540–5
Staphylococcus aureus bacteriophages mediating the simultaneous lysogenic conversion of beta-lysin, staphylokinase and enterotoxin A: molecular mechanism of triple conversion. Coleman DC, et al. **J Gen Microbiol** 1989 Jun;135 (Pt 6):1679–97
Molecular cloning and nucleotide sequence of another variant of the Escherichia coli Shiga-like toxin II family. Gannon VP, et al. **J Gen Microbiol** 1990 Jun;136 (Pt 6):1125–35
Cloning in Escherichia coli of the enterotoxin gene from Clostridium perfringens type A. Iwanejko LA, et al. **J Gen Microbiol** 1989 Apr;135 (Pt 4):903–9
Transcriptional control plays an important role for the production of heat-labile enterotoxin in enterotoxigenic Escherichia coli of human origin. Katayama S, et al. **Microbiol Immunol** 1990;34(1):11–24
Nucleotide sequence of the staphylococcal enterotoxin C3 gene: sequence comparison of all three type C staphylococcal enterotoxins. Hovde CJ, et al. **Mol Gen Genet** 1990 Jan;220(2):329–33
Characterization and cloning of enterotoxin genes of Salmonella typhimurium. Yang MK, et al. **Proc Natl Sci Counc Repub China [B]** 1989 Apr; 13(2):109–18
Isolation and nucleotide sequence determination of a gene encoding a heat-stable enterotoxin of Escherichia coli. Zhou X, et al. **Toxicon** 1990;28(4):453–6
Enterohaemolysin and Shiga-like toxin genes in E coli [letter] Pohl P, et al. **Vet Rec** 1990 Jun 9;126(23):585–6
Testing strains of Clostridium perfringens type A isolated from diarrhoeic piglets for the presence of the enterotoxin gene. van Damme-Jongsten M, et al. **Vet Rec** 1990 Feb 24;126(8):191–2
[Expression of Staphylococcus aureus enterotoxin A gene in heterologous systems] Chikindas ML, et al. **Mol Gen Mikrobiol Virusol** 1990 Mar;(3):21–4 (Eng. Abstr.) **(Rus)**
[UV-inducibility of the LT-toxin operon] Tiganova IG, et al. **Mol Gen Mikrobiol Virusol** 1989 Jul;(7):29–35 (Eng. Abstr.) **(Rus)**
[The cloning and expression of the Staphylococcus aureus enterotoxin A gene in Escherichia coli cells] Chikindas ML, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Feb; (2):18–20 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Vaccination against the cholera/coli family of enterotoxins by synthetic peptides. Jacob CO. **Adv Biotechnol Processes** 1990;13:223–54 (84 ref.)
Vaccine-containing biodegradable microspheres specifically enter the gut-associated lymphoid tissue following oral administration and induce a disseminated mucosal immune response. Eldridge JH, et al. **Adv Exp Med Biol** 1989; 251:191–202
Staphylococcal enterotoxins direct and trigger CTL killing of autologous HLA-DR+ mononuclear leukocytes and freshly prepared leukemia cells. Hedlund G, et al. **Cell Immunol** 1990 Sep;129(2):426–34
Enhanced immunogenicity of recombinant peptide fusions containing multiple copies of a heterologous T helper epitope. Löwenadler B, et al. **Eur J Immunol** 1990 Jul; 20(7):1541–5
Stimulation of all T cells bearing V beta 1, V beta 3, V beta 11 and V beta 12 by staphylococcal enterotoxin A. Takimoto H, et al. **Eur J Immunol** 1990 Mar;20(3):617–21
Construction of a nontoxic fusion peptide for immunization against Escherichia coli strains that produce heat-labile and heat-stable enterotoxins. Clements JD. **Infect Immun** 1990 May;58(5):1159–66
Study of epitopes of cholera enterotoxin-related enterotoxins by checkerboard immunoblotting. Kazemi M, et al. **Infect Immun** 1990 Jul;58(7):2352–60
Studies of Clostridium perfringens enterotoxin action at different temperatures demonstrate a correlation between complex formation and cytotoxicity. McClane BA, et al. **Infect Immun** 1990 Sep;58(9):3109–15
Immune response to toxic-shock-syndrome toxin-1 (TSST-1) and to staphylococcal enterotoxins A, B and C in Staphylococcus aureus infections. Kunstmann G, et al. **Int J Med Microbiol** 1989 Oct;271(4):486–92
Role of substance P in immediate-type skin reactions induced by staphylococcal enterotoxin B in unsensitized monkeys. Alber G, et al. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 1):880–5
HLA-DR alleles differ in their ability to present staphylococcal enterotoxins to T cells. Herman A, et al. **J Exp Med** 1990 Sep 1;172(3):709–17
Stimulation of B10.BR T cells with superantigenic staphylococcal toxins. Callahan JE, et al. **J Immunol** 1990 Apr 1;144(7):2473–9
Molecular requirements for T cell activation by the staphylococcal toxic shock syndrome toxin-1. Norton SD, et al. **J Immunol** 1990 Mar 15;144(6):2089–95
Activation of murine T cells by toxic shock syndrome toxin-1. The toxin-binding structures expressed on murine accessory cells are MHC class II molecules. Uchiyama T, et al. **J Immunol** 1989 Nov 15;143(10):3175–82
Seroepidemiologic evaluation of anti-toxic and anti-colonization factor immunity against infections by LT-producing Escherichia coli in rural Bangladesh. Clemens JD, et al. **J Infect Dis** 1990 Aug;162(2):448–53
Production and characterisation of monoclonal antibodies to Verotoxins 1 and 2 from Escherichia coli of serotype O 157:H7. Padhye VV, et al. **J Med Microbiol** 1989 Nov; 30(3):219–26
A conserved mechanism of T lymphocyte stimulation by microbial exotoxins. Fleischer B. **Microb Pathog** 1989 Aug; 7(2):79–83 (26 ref.)
The alpha 1 domain of the HLA-DR molecule is essential for high-affinity binding of the toxic shock syndrome toxin-1. Karp DR, et al. **Nature** 1990 Aug 2; 346(6283):474–6
The staphylococcal enterotoxins and their relatives [published erratum appears in Science 1990 Jun 1;248(4959):1066] [see comments] Marrack P, et al. **Science** 1990 May 11;248(4956):705–11 (66 ref.) Comment in: Science 1990 May 11;248(4956):685–6.
[Analysis of interferon-gamma production in killed BCG-pretreated mice after stimulation with staphylococcal enterotoxin A] Mizukoshi N, et al. **Kekkaku** 1989 Aug; 64(8):499–509 (Eng. Abstr.) **(Jpn)**
[Immunobiological properties of staphylococcal enterotoxins type A, B, C, D and E] Beilbaeva ML, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):720–2 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Large-scale purification of staphylococcal enterotoxins A, B, and C2 by dye ligand affinity chromatography. Brehm RD, et al. **Appl Environ Microbiol** 1990 Apr;56(4):1067–72
Binding and hemagglutinating properties of the B subunit(s) of heat-labile enterotoxin isolated from human enterotoxigenic Escherichia coli. Sugii S, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):45–50
A heat-labile enterotoxin (LT) purified from chicken enterotoxigenic Escherichia coli is identical to porcine LT. Tsuji T, et al. **FEMS Microbiol Lett** 1990 Feb;55(3):329–32
A system for production and rapid purification of large amounts of the Shiga toxin/Shiga-like toxin I B subunit. Calderwood SB, et al. **Infect Immun** 1990 Sep; 58(9):2977–82
Partial purification and characterization of the enterotoxin produced by Campylobacter jejuni. Daikoku T, et al. **Infect Immun** 1990 Aug;58(8):2414–9
Proteolysis of Clostridium perfringens type A enterotoxin during purification. Park KB, et al. **Infect Immun** 1990 Jun; 58(6):1999–2001
Purification of heat-labile enterotoxin from an enterotoxin from an enterotoxigenic Escherichia coli of human origin by monoclonal immunoaffinity chromatography. Cho MJ, et al. **J Korean Med Sci** 1987 Mar;2(1):65–70
Toxigenic Escherichia coli in haemolytic-uraemic syndrome [letter] Pryor W, et al. **Med J Aust** 1990 Feb 19; 152(4):221–2
Purification and characterization of Aeromonas hydrophila beta-hemolysin. Bloch S, et al. **Toxicon** 1989; 27(12):1279–87
[Enzyme immunoassay (ELISA) for detecting S. aureus enterotoxins B and C in milk] Suárez-Semour MA, et al. **Salud Publica Mex** 1990 Jan-Feb;32(1):64–73 (Eng. Abstr.) **(Spa)**

METABOLISM

Autoradiographic demonstration of specific binding sites for E. coli enterotoxin in various epithelia of the North American opossum. Krause WJ, et al. **Cell Tissue Res** 1990 May;260(2):387–94
Different staphylococcal enterotoxins bind preferentially to distinct major histocompatibility complex class II isotypes. Herrmann T, et al. **Eur J Immunol** 1989 Nov;19(11):2171–4
Activation of human T cells by toxic shock syndrome toxin-1: the toxin-binding structures expressed on human lymphoid cells acting as accessory cells are HLA class II molecules. Uchiyama T, et al. **Eur J Immunol** 1989 Oct; 19(10):1803–9
Interrelationships between digestive proteolytic activities and production and quantitation of toxins in pseudomembranous colitis induced by Clostridium difficile in gnotobiotic mice. Corthier G, et al. **Infect Immun** 1989 Dec;57(12):3922–7
Heterogeneity of intestinal receptors for Escherichia coli heat-stable enterotoxin. Ivens K, et al. **Infect Immun** 1990 Jun;58(6):1817–20
Comparison of the glycolipid receptor specificities of Shiga-like toxin type II and Shiga-like toxin type II variants. Samuel JE, et al. **Infect Immun** 1990 Mar; 58(3):611–8
Binding competition of toxic shock syndrome toxin 1 and other staphylococcal exoproteins for receptors on human peripheral blood mononuclear cells. See RH, et al. **Infect Immun** 1990 Jul;58(7):2392–6
Inactivation of staphylococcal enterotoxins by heat and reactivation by high pH treatment. Schwabe M, et al. **Int J Food Microbiol** 1990 Jan;10(1):33–42
Secretion of methanol-insoluble heat-stable enterotoxin (STB): energy- and secA-dependent conversion of pre-STB to an intermediate indistinguishable from the extracellular toxin. Kupersztoch YM, et al. **J Bacteriol** 1990 May;172(5):2427–32
Production of Shiga-like toxin among Escherichia coli strains and other bacteria isolated from diarrhea in São Paulo, Brazil. Giraldi R, et al. **J Clin Microbiol** 1990 Jun; 28(6):1460–2
Identification of enterotoxigenic Escherichia coli by colony hybridization with nonradioactive digoxigenin-labeled DNA probes. Riley LK, et al. **J Clin Microbiol** 1990 Jun; 28(6):1465–8
Staphylococcal enterotoxin B and toxic shock syndrome toxin-1 bind to distinct sites on HLA-DR and HLA-DQ molecules. Scholl PR, et al. **J Immunol** 1989 Oct 15; 143(8):2583–8
Effect of isotypes and allelic polymorphism on the binding of staphylococcal exotoxins to MHC class II molecules. Scholl PR, et al. **J Immunol** 1990 Jan 1;144(1):226–30
Structure-function analyses of Shiga toxin and the Shiga-like toxins. Jackson MP. **Microb Pathog** 1990 Apr;8(4):235–42 (57 ref.)
Export and processing analysis of a fusion between the extracellular heat-stable enterotoxin and the periplasmic B subunit of the heat-labile enterotoxin in Escherichia coli. Guzmán-Verduzco LM, et al. **Mol Microbiol** 1990 Feb; 4(2):253–64
Two precursors of the heat-stable enterotoxin of Escherichia coli: evidence of extracellular processing. Rasheed JK, et al. **Mol Microbiol** 1990 Feb;4(2):265–73
Intestinal electrolyte transport and diarrheal disease [letter; comment] Cleary TG, et al. N **Engl J Med** 1990 May 3; 322(18):1321–2 Comment on: N Engl J Med 1989 Sep 28;321(13):879–83.

PHARMACOLOGY

Effect of E. coli STa enterotoxin on mucosal surface pH of pig proximal jejunum in vivo. McEwan GT, et al. **Acta Vet Scand Suppl** 1989;86:186–8
Effect of E. coli STa enterotoxin on intestinal drug absorption. McEwan GT, et al. **Acta Vet Scand Suppl** 1989; 86:189–91
Calmodulin-dependent enzymes as a target of staphylococcal enterotoxin A. Alakhov VYu, et al. **Adv Enzyme Regul** 1990;30:331–55
C. difficile toxin A increases intestinal permeability and induces Cl- secretion. Moore R, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):G165–72
Mitogenic properties of two distinct forms of toxic shock syndrome toxin-1 separated on hydroxyapatite by high-performance liquid chromatography. Naidu AS, et al. **APMIS** 1989 Dec;97(12):1088–96
The I-A beta b region (65–85) is a binding site for the superantigen, staphylococcal enterotoxin A. Russell JK, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):696–701
Increasing cytostatic effects of ricin A chain and Staphylococcus aureus enterotoxin A through in vitro hydrophobization with fatty acid residues. Alakhov VYu, et al. **Biotechnol Appl Biochem** 1990 Feb;12(1):94–8

Macrophage-dependent stimulation of T cell-depleted spleen cells by Clostridium difficile toxin A and calcium ionophore. Miller PD, et al. **Cell Immunol** 1990 Mar; 126(1):155–63

Requirement for accessory cells in suppression of MOPC-315 IgA secretion by staphylococcal enterotoxin B-induced T-suppressor cells. Newcomb JR, et al. **Cell Immunol** 1990 Sep;129(2):528–37

The effects of enterotoxins and short-chain fatty acids on water and electrolyte fluxes in ileal and colonic loops in vivo in the rat. Ramakrishna BS, et al. **Digestion** 1990; 45(2):93–101

Differences between the mechanisms of action of heat-stable and heat-labile enterotoxins of Escherichia coli. Goyal J, et al. **FEMS Microbiol Lett** 1990 Jan 1;54(1–3):169–73

Additive effects of ileal secretagogues in the rat. Charney AN, et al. **Gastroenterology** 1990 Apr;98(4):881–7

Enterotoxins from Clostridium difficile; diarrhoeogenic potency and morphological effects in the rat intestine. Torres J, et al. **Gut** 1990 Jul;31(7):781–5

Immunobiological study of interferon-gamma-producing cells after staphylococcal enterotoxin B stimulation. Lee CL, et al. **Immunology** 1990 May;70(1):94–9

Phorbol esters enhance the cyclic GMP response of T84 cells to the heat-stable enterotoxin of Escherichia coli (STa). Weikel CS, et al. **Infect Immun** 1990 May;58(5):1402–7

A positive feedback loop for staphylococcal enterotoxin-A-stimulated IFN-gamma production requires macrophage immune-associated antigen upregulation. Russell JK, et al. **Int Arch Allergy Appl Immunol** 1989; 90(3):219–23

Regulation of particulate guanylate cyclase by Escherichia coli heat-stable enterotoxin: receptor binding and enzyme kinetics. Carr S, et al. **Int J Biochem** 1989;21(11):1211–5

Relationship between enterotoxic- and T lymphocyte-stimulating activity of staphylococcal enterotoxin B. Alber G, et al. **J Immunol** 1990 Jun 15; 144(12):4501–6

Production of TNF-alpha and TNF-beta by staphylococcal enterotoxin A activated human T cells. Fischer H, et al. **J Immunol** 1990 Jun 15;144(12):4663–9

Activation of MHC class I-restricted CD8+ CTL by microbial T cell mitogens. Dependence upon MHC class II expression of the target cells and V beta usage of the responder T cells. Herrmann T, et al. **J Immunol** 1990 Feb 15;144(4):1181–6

Characterization and genetic restriction of suppressor-effector cells induced by staphylococcal enterotoxin B. Taub DD, et al. **J Immunol** 1990 Jan 15; 144(2):456–62

Bacterial proteins that mediate the association of a defined subset of T cell receptor:CD4 complexes with class II MHC. Yagi J, et al. **J Immunol** 1990 Feb 1;144(3):892–901

Inhibition by the protein kinase inhibitors, isoquinolinesulfonamides, of fluid accumulation induced by Escherichia coli heat-stable enterotoxin, 8-bromo-cGMP and 8-bromo-cAMP in suckling mice. Hirayama T, et al. **Microb Pathog** 1989 Oct;7(4):255–61

Specific recognition of staphylococcal enterotoxin A by human T cells bearing receptors with the V gamma 9 region. Rust CJ, et al. **Nature** 1990 Aug 9;346(6284):572–4

Effects of cholera toxin, Escherichia coli heat stable toxin and sodium deoxycholate on neurotensin release from the ileum in vivo. Eklund S, et al. **Regul Pept** 1989 Dec; 26(3):241–52

The TcR-CD3 complex is required for activation of human lymphocytes with staphylococcal enterotoxin A. Lando PA, et al. **Scand J Immunol** 1990 Feb;31(2):133–8

The effect of Escherichia coli heat-stable enterotoxin on protein kinase activity. Knoop FC, et al. **Toxicon** 1990; 28(5):493–500

Suppression of murine alloimmune cytolytic T lymphocyte development by spleen cells incubated with staphylococcal enterotoxin B in vitro. Patel MR, et al. **Transplant Proc** 1987 Feb;19(1 Pt 1):288–9

[Escherichia coli enterotoxins—their significance for food hygiene and recent findings on the structure and mode of action (review)] Fehlhaber K, et al. **Arch Exp Veterinarmed** 1989 Nov;43(6):811–9 (89 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Role of Ca2(+)-calmodulin and protein kinase C in the secretory action of heat-labile enterotoxin of Escherichia coli in mice. Goyal J, et al. **Biochem Int** 1989 Nov; 19(5):1007–17

POISONING

Chinchilla deaths due to Clostridium perfringens A enterotoxin [letter] Bartoszce M, et al. **Vet Rec** 1990 Apr 7;126(14):341–2

TOXICITY

Induction of tumour necrosis factor by staphylococcal toxic shock toxin 1. de Azavedo JC, et al. **FEMS Microbiol Immunol** 1988 Jul;1(2):69–74

Interaction of Clostridium difficile toxin A with cultured cells: cytoskeletal changes and nuclear polarization. Fiorentini C, et al. **Infect Immun** 1990 Jul;58(7):2329–36

Effect of Clostridium difficile enterotoxin A on ultrastructure of Chinese hamster ovary cells. Kushnaryov VM, et al. **Infect Immun** 1989 Dec;57(12):3914–21

Assay for enterotoxigenic Escherichia coli heat-stable toxin b in rats and mice. Whipp SC. **Infect Immun** 1990 Apr; 58(4):930–4

The toxicity of staphylococcal enterotoxin B in mice is mediated by T cells. Marrack P, et al. **J Exp Med** 1990 Feb 1;171(2):455–64

The staphylococcal toxic shock syndrome toxin 1 triggers B cell proliferation and differentiation via major histocompatibility complex-unrestricted cognate T/B cell interaction. Mourad W, et al. **J Exp Med** 1989 Dec 1; 170(6):2011–22

Enterotoxin effect on hepatocytes in experimental intestinal obstruction in the rat. Hou MF, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1989 Oct; 5(10):535–9

Effects of heat-stable Escherichia coli enterotoxin on intestinal alkaline secretion and transepithelial potential difference in the rat intestines in vivo. Tantisira MH, et al. **Scand J Gastroenterol** 1990 Jan;25(1):19–28

Enterotoxin induced diarrhoea—an update. Nair GB, et al. **Trop Gastroenterol** 1989 Jul-Sep;10(3):133–41 (116 ref.)

[The adhesins of enterotoxigenic Escherichia coli: their role in the pathogenesis of diarrhea and their genetic control] Petrovskaia VG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 May;(5):110–7 (52 ref.) **(Rus)**

ENTEROVIRUS INFECTIONS

A molecular and serologic evaluation of enteroviral involvement in human myocarditis. Tracy S, et al. **J Mol Cell Cardiol** 1990 Apr;22(4):403–14

[Meningitis of viral or possible viral etiology in adults: study of 325 cases] Martínez-Martín P, et al. **Neurologia** 1990 Jan;5(1):4–10 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Influence of flavonoids on combined experimental infections with EMC virus and Staphylococcus aureus in mice. Panasiak W, et al. **Acta Microbiol Pol** 1989;38(2):185–8

Diverse patterns of immune and non-immune-mediated disease in EMC M-variant-infected mice. Craighead JE, et al. **J Autoimmun** 1990 Apr;3 Suppl 1:27–9 (12 ref.)

Abrogation of resistance to Theiler's virus-induced demyelination in C57BL mice by total body irradiation. Rodriguez M, et al. **J Neuroimmunol** 1990 Mar;26(3):189–99

Successful treatment of viral-induced diabetes mellitus by islet transplantation. Howard RJ, et al. **Surg Forum** 1978; 29:343–5

[Neurosonography of the brain in infectious toxicoses in infants] Berestov AI, et al. **Zh Nevropatol Psikhiatr** 1989; 89(8):9–11 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Molecular approaches to enteroviral diagnosis in idiopathic cardiomyopathy and myocarditis. Tracy S, et al. **J Am Coll Cardiol** 1990 Jun;15(7):1688–94 (69 ref.)

Enterovirus-specific IgM in the diagnosis of meningitis. Day C, et al. **J Infect** 1989 Nov;19(3):219–28

Diagnosis of enteroviral meningitis with the polymerase chain reaction. Rotbart HA. **J Pediatr** 1990 Jul;117(1 Pt 1):85–9

[Serodiagnosis of enterovirus 70 and 71 infection] Hasegawa A. **Nippon Rinsho** 1990 Feb;48 Suppl:352–4 **(Jpn)**

DRUG THERAPY

[Double-stranded RNA from phage F6: its interferon-inducing and antiviral properties] Nosik NN, et al. **Antibiot Khimioter** 1990 Mar;35(3):25–7 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Sewage pollution of marine waters: the risks of viral infection [editorial; comment] Birch C, et al. **Med J Aust** 1989 Dec 4–18;151(11–12):609–10 Comment on: Med J Aust 1989 Dec 4–18;151(11–12).

Outbreak of poliomyelitis-like paralysis associated with enterovirus 71. Hayward JC, et al. **Pediatr Infect Dis J** 1989 Sep;8(9):611–6

[Computer model for prognosis of incidence of aseptic meningitis] Spynu KI, et al. **Vopr Virusol** 1989 Nov-Dec; 34(6):704–10 (Eng. Abstr.) **(Rus)**

[An outbreak of neonatal meningitis caused by enterovirus] Goma Brufau AR, et al. **An Esp Pediatr** 1990 May; 32(5):413–5 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Secondary enterovirus infection in the murine model of myocarditis. Pathologic and immunologic aspects. Beck MA, et al. **Am J Pathol** 1990 Mar;136(3):669–81

Susceptibility of four species of small rodents to encephalomyocarditis (EMC) virus infection. Matsuzaki H, et al. **Jikken Dobutsu** 1989 Oct;38(4):357–61

Monocytes/macrophages isolated from the mouse central nervous system contain infectious Theiler's murine encephalomyelitis virus (TMEV). Clatch RJ, et al. **Virology** 1990 May;176(1):244–54

[Behavior of enteroviruses in the soil] Shirobokov VP, et al. **Gig Sanit** 1989 Jun;(6):53–5 (20 ref.) **(Rus)**

GENETICS

Identification of a locus on mouse chromosome 3 involved in differential susceptibility to Theiler's murine encephalomyelitis virus-induced demyelinating disease. Melvold RW, et al. **J Virol** 1990 Feb;64(2):686–90

IMMUNOLOGY

Paradoxical lessening of autoimmune processes in non-obese diabetic mice after infection with the diabetogenic variant of encephalomyocarditis virus. Hermitte L, et al. **Eur J Immunol** 1990 Jun;20(6):1297–303

A molecular and serologic evaluation of enteroviral involvement in human myocarditis. Tracy S, et al. **J Mol Cell Cardiol** 1990 Apr;22(4):403–14

Class II-restricted T cell responses in Theiler's murine encephalomyelitis virus (TMEV)-induced demyelinating disease. III. Failure of neuroantigen-specific immune tolerance to affect the clinical course of demyelination. Miller SD, et al. **J Neuroimmunol** 1990 Jan;26(1):9–23

Intrathecal synthesis of virus-specific oligoclonal antibodies in patients with enterovirus infection of the central nervous system. Kaiser R, et al. **J Neurol** 1989 Oct;236(7):395–9

Theiler's virus-induced demyelination in mice immunosuppressed with anti-IgM and in mice expressing the xid gene. Rodriguez M, et al. **Microb Pathog** 1990 Jan; 8(1):23–35

Sex-dependent, early cytokine production by NK-like spleen cells following infection with the D variant of encephalomyocarditis virus (EMCV-D). McFarland HI, et al. **Viral Immunol** 1989 Fall;2(3):205–14

D variant of encephalomyocarditis virus (EMCV-D)-induced diabetes following natural killer cell depletion in diabetes-resistant male C57BL/6J mice. White LL, et al. **Viral Immunol** 1990 Spring;3(1):67–76

MICROBIOLOGY

Enterovirus isolation from foetal and placental tissues. Basso NG, et al. **Acta Virol (Praha)** 1990 Feb;34(1):49–57

PATHOLOGY

Tropism and histopathology of the D, B, K, and MM variants of encephalomyocarditis virus. Cerutis DR, et al. **J Med Virol** 1989 Sep;29(1):63–9

Monocytes/macrophages isolated from the mouse central nervous system contain infectious Theiler's murine encephalomyelitis virus (TMEV). Clatch RJ, et al. **Virology** 1990 May;176(1):244–54

[Encephalomyocarditis syndrome (EMC syndrome)] Fehlow P, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Apr; 42(4):218–24 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Blocking by anti-idiotypic antibodies of monoclonal antibody mediated protection in mice against encephalomyocarditis virus induced diabetes and lethal disease. Vlaspolder F, et al. **Arch Virol** 1990;110(3–4):277–85

Potential use of nonpathogenic enteroviruses for control of human disease. Voroshilova MK. **Prog Med Virol** 1989; 36:191–202 (17 ref.)

Vaccination of Balb/c mice against enteroviral mediated myocarditis. Fohlman J, et al. **Vaccine** 1990 Aug;8(4):381–4

VETERINARY

A trial of molecular epidemiology using bovine enteroviruses isolated monthly from cattle. Hamada N, et al. **Arch Virol** 1990;111(1–2):63–74

Investigations of an enteric infection of cockatoos caused by an enterovirus-like agent. Wylie SL, et al. **Aust Vet J** 1989 Oct;66(10):321–4

Reproductive and neonatal losses associated with possible encephalomyocarditis virus infection in pigs. Christianson WT, et al. **Vet Rec** 1990 Jan 20;126(3):54–7

Encephalomyocarditis of swine in Greece. Paschaleri-Papadopoulou E, et al. **Vet Rec** 1990 Apr 14; 126(15):364–5

ENTEROVIRUSES

CLASSIFICATION

Presumptive identification of enteroviruses with RD, HEp-2, and RMK cell lines. Johnston SL, et al. **J Clin Microbiol** 1990 May;28(5):1049–50

Relation of serological- and CPE- classification of porcine enteroviruses to the classification by immunoperoxidase (IP) staining, and observation of CPE by IP staining method. Honda E, et al. **Nippon Juigaku Zasshi** 1990 Aug; 52(4):795–800

A serological comparison of 4 Japanese isolates of porcine enteroviruses with the international reference strains. Honda E, et al. **Nippon Juigaku Zasshi** 1990 Feb; 52(1):49–54

Sero- and CPE-types of porcine enteroviruses isolated from healthy and diarrheal pigs: possible association of CPE type II with diarrhea. Honda E, et al. **Nippon Juigaku Zasshi** 1990 Feb;52(1):85–90

DRUG EFFECTS

Effect of 3'-azido-3'-deoxythymidine on replication of duck

hepatitis B virus in vivo and in vitro. Haritani H, et al. **J Med Virol** 1989 Dec;29(4):244–8

[Enterovirus sensitivity to synthetic detergents] Bondarenko VI, et al. **Mikrobiol Zh** 1985 Jan–Feb;47(1):74–7 (Eng. Abstr.) **(Rus)**

GENETICS

Detection of enterovirus specific RNA sequences in muscle biopsy specimens from patients with adult onset myositis. Yousef GE, et al. **Ann Rheum Dis** 1990 May;49(5):310–5

A trial of molecular epidemiology using bovine enteroviruses isolated monthly from cattle. Hamada N, et al. **Arch Virol** 1990;111(1–2):63–74

Detection of enterovirus RNA in myocardial biopsies from patients with myocarditis and cardiomyopathy using gene amplification by polymerase chain reaction [see comments] Jin O, et al. **Circulation** 1990 Jul;82(1):8–16 Comment in: Circulation 1990 Jul;82(1):294–5.

Molecular detection and identification of enteroviruses using enzymatic amplification and nucleic acid hybridization. Chapman NM, et al. **J Clin Microbiol** 1990 May; 28(5):843–50

Enzymatic RNA amplification of the enteroviruses. Rotbart HA. **J Clin Microbiol** 1990 Mar;28(3):438–42

Production of infectious swine vesicular disease virus from cloned cDNA in mammalian cells. Inoue T, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1835–8

Echovirus 22 is an atypical enterovirus. Coller BA, et al. **J Virol** 1990 Jun;64(6):2692–701

Polyprotein processing of Theiler's murine encephalomyelitis virus. Roos RP, et al. **J Virol** 1989 Dec;63(12):5344–53

Infectious cDNA clones of the DA strain of Theiler's murine encephalomyelitis virus. Roos RP, et al. **J Virol** 1989 Dec; 63(12):5492–6

Molecular cloning of the complete genome of Theiler's virus, strain DA, and production of infectious transcripts. McAllister A, et al. **Microb Pathog** 1989 Nov;7(5):381–8

Common and specific sequences in picornaviruses. Auvinen P. **Mol Cell Probes** 1990 Aug;4(4):273–84

Genomic regions of neurovirulence and attenuation in Theiler murine encephalomyelitis virus. Calenoff MA, et al. **Proc Natl Acad Sci U S A** 1990 Feb;87(3):978–82

In hepatocytes infected with duck hepatitis B virus, the template for viral RNA synthesis is amplified by an intracellular pathway. Wu TT, et al. **Virology** 1990 Mar; 175(1):255–61

A temperature-sensitive defect of enterovirus 70 is located at the uridylylation of the genome-linked protein VPg in vitro. Takeda N, et al. **Virus Genes** 1989 Aug;2(4):347–55

The complete nucleotide sequence of a pathogenic swine vesicular disease virus. Seechurn P, et al. **Virus Res** 1990 Jul;16(3):255–74

GROWTH & DEVELOPMENT

[The persistence of bovine enterovirus and pseudorabies virus in liquid cattle manure at different storage temperatures] Biermann U, et al. **Berl Munch Tierarztl Wochenschr** 1990 Mar 1;103(3):88–90 (Eng. Abstr.) **(Ger)**

[Retinoic acid modification of cell culture used for reproduction of enteropathogenic viruses] Tatskaia VN, et al. **Biull Eksp Biol Med** 1989 Jul;108(7):93–5 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

A standard vaccine for the virus content test of live avian encephalomyelitis virus vaccines. Nicholas RA, et al. **Biologicals** 1990 Apr;18(2):131–3

Evidence for a group-specific enteroviral antigen(s) recognized by human T cells. Beck MA, et al. **J Clin Microbiol** 1990 Aug;28(8):1822–7

Monoclonal antibody to Theiler's murine encephalomyelitis virus defines a determinant on myelin and oligodendrocytes, and augments demyelination in experimental allergic encephalomyelitis. Yamada M, et al. **J Exp Med** 1990 Jun 1;171(6):1893–907

Chemically synthesized peptides elicit neutralizing antibody to bovine enterovirus. Smyth MS, et al. **J Gen Virol** 1990 Jan;71 (Pt 1):231–4

Enterovirus-specific IgM in the diagnosis of meningitis. Day C, et al. **J Infect** 1989 Nov;19(3):219–28

Detection of restricted predominant epitopes of Theiler's murine encephalomyelitis virus capsid proteins expressed in the lambda gt11 system: differential patterns of antibody reactivity among different mouse strains. Crane MA, et al. **J Neuroimmunol** 1990 May;27(2–3):173–86

Intrathecal synthesis of virus-specific oligoclonal antibodies in patients with enterovirus infection of the central nervous system. Kaiser R, et al. **J Neurol** 1989 Oct;236(7):395–9

Virus-neutralizing monoclonal antibody to a conserved epitope on the duck hepatitis B virus pre-S protein. Lambert V, et al. **J Virol** 1990 Mar;64(3):1290–7

Rapid biotin-avidin method for quantitation of antiviral antibody isotypes. Peterson JD, et al. **J Virol Methods** 1990 Feb;27(2):189–201

Development and application of an improved infectivity assay for the standardization of avian encephalomyelitis vaccines. Shafren DR, et al. **Vaccine** 1990 Jun;8(3):283–5

Blocking enzyme-linked immunosorbent assay for detection of antibodies against bovine enterovirus. Zhang AQ, et al. **Vet Microbiol** 1990 Jan;21(3):275–81

Neutralizing monoclonal antibody against enterovirus-70 reacts with viral proteins 1C and 1D. Wiley JA, et al. **Viral Immunol** 1990 Summer;3(2):137–46

Epitopes on 14S subunits, natural empty capsids and virions of bovine enteroviruses. Zhang AQ, et al. **Virus Res** 1990 Jul;16(3):235–46

[The use of an immunoenzyme method for detecting enteroviruses] Frolov AF, et al. **Vrach Delo** 1990 Feb; (2):113–4 (Eng. Abstr.) **(Rus)**

[Prospect of avian encephalomyelitis antibodies in breeding farms in Chile] Cubillos A, et al. **Acta Cient Venez** 1989; 40(2):127–9 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Enterovirus isolation from foetal and placental tissues. Basso NG, et al. **Acta Virol (Praha)** 1990 Feb;34(1):49–57

End-stage dilated cardiomyopathy. Persistence of enterovirus RNA in myocardium at cardiac transplantation and lack of immune response. Bowles NE, et al. **Circulation** 1989 Nov;80(5):1128–36

Specific detection of enteroviruses in clinical samples by molecular hybridization using poliovirus subgenomic riboprobes. Petitjean J, et al. **J Clin Microbiol** 1990 Feb; 28(2):307–11

Solution hybridization and enzyme immunoassay for biotinylated DNA-RNA hybrids to detect enteroviral RNA in cell culture. Newman CL, et al. **Mol Cell Probes** 1989 Dec;3(4):375–82

Isolation of enterovirus 70 (EV70) from patients with acute haemorrhagic conjunctivitis in two areas of Saudi Arabia. Ramia S, et al. **Trans R Soc Trop Med Hyg** 1990 Jan–Feb; 84(1):139–40

Monocytes/macrophages isolated from the mouse central nervous system contain infectious Theiler's murine encephalomyelitis virus (TMEV). Clatch RJ, et al. **Virology** 1990 May;176(1):244–54

Recovery of solid-associated virus: evaluation of different procedures. Schwartzbrod L, et al. **Zentralbl Hyg Umweltmed** 1989 Sep;188(6):559–65

[Circulation of enteroviruses among the population of Orel during 1971–1983] Markov AP, et al. **Vopr Virusol** 1990 Mar–Apr;35(2):152–5 **(Rus)**

[Comparative study of the value of primary cultures and continuous monkey kidney cell lines for the isolation of enteroviruses] Serić K, et al. **Med Arh** 1985;39(1):3–5 (Eng. Abstr.) **(Scr)**

PATHOGENICITY

Effect of enteroviruses on adherence to and invasion of HEp-2 cells by Campylobacter isolates. Konkel ME, et al. **Infect Immun** 1990 Apr;58(4):1101–5

Alteration of amino acid 101 within capsid protein VP-1 changes the pathogenicity of Theiler's murine encephalomyelitis virus. Zurbriggen A, et al. **J Exp Med** 1989 Dec 1;170(6):2037–49

Neurovirulence determinants of genetically engineered Theiler viruses. Fu JL, et al. **Proc Natl Acad Sci U S A** 1990 Jun;87(11):4125–9

Potential use of nonpathogenic enteroviruses for control of human disease. Voroshilova MK. **Prog Med Virol** 1989; 36:191–202 (17 ref.)

[Behavior of enteroviruses in the soil] Shirobokov VP, et al. **Gig Sanit** 1989 Jun;(6):53–5 (20 ref.) **(Rus)**

[The etiologic role of enteroviruses in intestinal dyspepsia (a review of the literature)] Bondarenko VI, et al. **Vrach Delo** 1990 Mar;(3):1–5 (42 ref.) **(Rus)**

PHYSIOLOGY

Enhancement of enterovirus infectivity in vitro by pretreating host cell monolayers with the cationic polymer polyethyleneimine. Preston DR, et al. **Appl Environ Microbiol** 1990 Jan;56(1):295–7

ULTRASTRUCTURE

[Electron microscopy in the diagnosis of small round structurized viruses] Brebäck K, et al. **Lakartidningen** 1990 Jun 20;87(25):2179, 2183–4 **(Swe)**

ENTEROVIRUSES, PORCINE see under **ENTEROVIRUSES**

ENTOMOLOGY

Entomology, zoology and forensic science: the need for expansion [editorial] Erzinclioglu YZ. **Forensic Sci Int** 1989 Dec;43(3):209–13

Forensic entomology [letter] Patel F. **Forensic Sci Int** 1990 Mar;45(1–2):191–2

[Entomology and legal medicine: origins, development, actualization] Leclercq M, et al. **Rev Med Liege** 1990 Jul; 45(7):348–58 **(Fre)**

HISTORY

Are mosquitoes gourmet or gourmand? Edman JD. **J Am Mosq Control Assoc** 1989 Dec;5(4):487–99

INSTRUMENTATION

An improved applicator system for cellulose acetate electrophoresis. Foley DH. **J Am Mosq Control Assoc** 1990 Mar;6(1):141–3

An improved laboratory test cage for testing repellents on human volunteers. Gupta RK, et al. **J Am Mosq Control Assoc** 1989 Sep;5(3):436–8

Comparisons of light traps for monitoring adult Culicoides variipennis (Diptera: Ceratopogonidae). Holbrook FR, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):558–62

Effects of cattle density on New Jersey light trap mosquito captures in the rice/cattle agroecosystem of southwestern Louisiana. McLaughlin RE, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):283–6

Attractiveness of selected oviposition substrates for gravid Culex tarsalis and Culex quinquefasciatus in California. Reisen WK, et al. **J Am Mosq Control Assoc** 1990 Jun; 6(2):244–50

An improved semi-micro manipulator for precise injection into mosquito larvae. Sardelis MR, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):601–2

Collection of blood-engorged black flies (Diptera: Simuliidae) and identification of their source of blood. Simmons KR, et al. **J Am Mosq Control Assoc** 1989 Dec; 5(4):541–6

METHODS

Comparison of several different trapping methods for Culicoides variipennis (Diptera: Ceratopogonidae). Anderson JR, et al. **J Am Mosq Control Assoc** 1989 Sep; 5(3):325–34

A simple method for shipping field collected mosquitoes for electrophoretic studies. Perera OP, et al. **J Am Mosq Control Assoc** 1990 Jun;6(2):321–2

Use of sodium hypochlorite to detect aedine mosquito eggs in mangrove soils and insect feces. Ritchie SA, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):612–3

A programmable environmental system for maintenance and observation of individually housed ticks. Pound JM, et al. **J Parasitol** 1989 Dec;75(6):994–6

TRENDS

Entomologists wane as insects wax [news] Holden C. **Science** 1989 Nov 10;246(4931):754–6

ENTOMOPHTHORA see under **ZYGOMYCOTINA**

ENTRAPMENT NEUROPATHY see **NERVE COMPRESSION SYNDROMES**

ENTROPION

DIAGNOSIS

Wiedemann-Rautenstrauch syndrome. Toriello HV. **J Med Genet** 1990 Apr;27(4):256–7

ETIOLOGY

Eyelid complications in trachoma. I. Cicatricial entropion. Nasr AM. **Ophthalmic Surg** 1989 Nov;20(11):800–7

PHYSIOPATHOLOGY

Mechanics and histology of senile entropion. Dalgleish R, et al. **Br J Ophthalmol** 1966 Feb;50(2):79–91

SURGERY

Oculoplastic surgery. Millay DJ. **Arch Otolaryngol Head Neck Surg** 1990 Apr;116(4):398–9

VETERINARY

[Entropion in newborn lambs] Lamprecht H, et al. **Berl Munch Tierarztl Wochenschr** 1989 Sep 1;102(9):303–10 (Eng. Abstr.) **(Ger)**

ENUCLEATION, EYE see **EYE ENUCLEATION**

ENURESIS

[Enuresis nocturna] Mores A. **Cesk Pediatr** 1989 Jul; 44(7):429–30 **(Cze)**

[Enuresis and common bladder disorders in children] Cochat P. **Pediatrie** 1989;44(7):523–30 (Eng. Abstr.) **(Fre)**

[Enuresis in children. Diagnostic assessment and treatment] Cigna RM, et al. **Minerva Pediatr** 1989 Jul;41(7):371–3 (Eng. Abstr.) **(Ita)**

BLOOD

Adult enuresis. The role of vasopressin and atrial natriuretic peptide. Rittig S, et al. **Scand J Urol Nephrol Suppl** 1989; 125:79–86

Prediction of imipramine serum levels in enuretic children by a Bayesian method: comparison with two other conventional dosing methods. Fernández de Gatta MM, et al. **Ther Drug Monit** 1989 Nov;11(6):637–41

COMPLICATIONS

A 6 year follow-up of childhood enuresis: prevalence in adolescence and consequences for mental health. Feehan M, et al. **J Paediatr Child Health** 1990 Apr;26(2):75–9

DIAGNOSIS

Our approach to primary enuresis in children. Vereecken RL. **Acta Urol Belg** 1990;58(1):105–15

DRUG THERAPY

Imipramine in nocturnal enuresis [letter] Cahill CA. **Am J Dis Child** 1967 Aug;114(2):215

Control of bed-wetting with benztropine [letter] Costa JF, et al. **Am J Psychiatry** 1990 May;147(5):674

Subcutaneous vasopressin in nocturnal enuresis. Lanng C, et al. **Br J Urol** 1989 Dec;64(6):652

Dangers of intranasal desmopressin for nocturnal enuresis [letter] Bamford MF, et al. **J R Coll Gen Pract** 1989 Aug; 39(325):345–6

Indomethacin suppository to treat primary nocturnal enuresis: double-blind study. al-Waili NS. **J Urol** 1989 Nov;142(5):1290–2

Desmopressin for nocturnal enuresis. **Med Lett Drugs Ther** 1990 Apr 20;32(816):38–9

Steady-state serum concentrations of imipramine, its main metabolites and clinical response in primary enuresis. Furlanut M, et al. **Pharmacol Res** 1989 Sep–Oct;21(5):561–6

[Enuresis nocturna—is synthetic antidiuretic hormone the first therapeutic choice? (letter)] Christensen MF. **Ugeskr Laeger** 1990 Feb 5;152(6):407 (Dan)

[Treatment of enuresis with desmopressin (letter)] Johnsen O. **Ugeskr Laeger** 1990 Jun 25;152(26):1912–3 (Dan)

[Enuresis nocturna and imipramine (letter)] Sørensen OR. **Ugeskr Laeger** 1990 Jul 16;152(29):2124–5 (Dan)

[Enuresis nocturna—a proposed compromise (letter)] Wille S. **Ugeskr Laeger** 1990 Jun 25;152(26):1913–4 (Dan)

[Enuresis nocturna (letter)] Zachau-Christiansen B. **Ugeskr Laeger** 1990 Mar 26;152(13):930–1 (Dan)

[The use of viloxazine in the treatment of primary enuresis] Libert MH. **Acta Urol Belg** 1990;58(1):117–22 (Eng. Abstr.) (Fre)

[Overdose of anticholinergic agents and confusional syndrome] Choulot JJ, et al. **Ann Pediatr (Paris)** 1989 Dec; 36(10):714 (Eng. Abstr.) (Fre)

[Clinical studies on terodiline hydrochloride in nocturnal enuresis] Sasagawa I. **Hinyokika Kiyo** 1989 Aug; 35(8):1463–5 (Eng. Abstr.) (Jpn)

[Enuresis. Results of a new therapeutic approach] Luque Arana JI, et al. **Actas Urol Esp** 1989 Nov–Dec;13(6):432–5 (Eng. Abstr.) (Spa)

[Desmopressin is effective in difficult-to-control nocturnal enuresis] Wille S. **Lakartidningen** 1990 Jul 11; 87(28–29):2343–4 (Swe)

ETIOLOGY

Endoscopic resection as treatment of enuresis with posterior urethral valves. Vanwaeyenbergh J, et al. **Acta Urol Belg** 1990;58(1):133–7

Nocturnal enuresis in sickle cell haemoglobinopathies. Readett DR, et al. **Arch Dis Child** 1990 Mar;65(3):290–3

Determinants of nocturnal enuresis in homozygous sickle cell disease. Readett DR, et al. **Arch Dis Child** 1990 Jun; 65(6):615–8

Secondary enuresis in a birth cohort of New Zealand children. Fergusson DM, et al. **Paediatr Perinat Epidemiol** 1990 Jan;4(1):53–63

Nocturnal enuresis: a prevalent, persistent, yet curable parasomnia. Friman PC, et al. **Pediatrician** 1990;17(1):38–45 (66 ref.)

[Enuresis and encopresis as a reaction to food] Oei HD, et al. **Ned Tijdschr Geneeskd** 1989 Aug 5;133(31):1555–7 (Eng. Abstr.) (Dut)

GENETICS

[Heredity but not a psychological disturbance in children with nocturnal enuresis] Wille S. **Lakartidningen** 1990 Jul 11;87(28–29):2342–3 (Swe)

PHYSIOPATHOLOGY

Urodynamic studies in children who wet. Mayo ME, et al. **Br J Urol** 1990 Jun;65(6):641–5

Developmental history and neurological findings in enuretic children. Järvelin MR. **Dev Med Child Neurol** 1989 Dec; 31(6):728–36

Nocturnal studies in enuretics. A polygraphic study of sleep-EEG and bladder activity. Nørgaard JP, et al. **Scand J Urol Nephrol Suppl** 1989;125:73–8

[Nocturnal enuresis—new treatment principles in the light of increased understanding of the physiopathology (editorial)] Nørgaard JP. **Ugeskr Laeger** 1989 Nov 13; 151(46):3049–50 (Dan)

[Sensory sphere function in children with enuresis] Laskov BI, et al. **Zh Nevropatol Psikhiatr** 1990;90(5):36–9 (Eng. Abstr.) (Rus)

PSYCHOLOGY

Coping styles of enuretic children. Reinhard HG. **Acta Paedopsychiatr** 1989;52(1):65–70

Personality traits in young adults with a history of conditioning-treated childhood enuresis. Strömgren A, et al. **Acta Psychiatr Scand** 1990 Jun;81(6):538–41

The child's construing of nocturnal enuresis: a method of inquiry and prediction of outcome. Butler RJ, et al. **J Child Psychol Psychiatry** 1990 Mar;31(3):447–54

Life changes and protective capacities in enuretic and non-enuretic children. Järvelin MR, et al. **J Child Psychol Psychiatry** 1990 Jul;31(5):763–74

[The behavior of children with nocturnal enuresis and children with recurrent abdominal pain] Cuturić N, et al. **Lijec Vjesn** 1989 Aug;111(8):254–6 (Eng. Abstr.) (Scr)

THERAPY

Bladder instability and enuresis treated by acupuncture and electro-therapeutics: early urodynamic observations. Minni B, et al. **Acupunct Electrother Res** 1990;15(1):19–25

Electro-acupuncture in the treatment of enuresis nocturna. Tüzüner F, et al. **Acupunct Electrother Res** 1989; 14(3–4):211–5

Rapid maxillary expansion in the treatment of nocturnal enuresis. Timms DJ. **Angle Orthod** 1990 Fall;60(3):229–33; discussion 234

Behavioral social work treatment of childhood nocturnal enuresis. Sluckin A. **Behav Modif** 1989 Oct;13(4):482–97

Effects of a waking schedule on primary enuretic children treated with full-spectrum home training. Whelan JP, et al. **Health Psychol** 1990;9(2):164–76

The behavioural treatment of nocturnal enuresis in a severely brain-damaged client. Papworth MA. **J Behav Ther Exp Psychiatry** 1989 Sep;20(3):265–8

Chiropractic management of enuresis: time-series descriptive design. Gemmell HA, et al. **J Manipulative Physiol Ther** 1989 Oct;12(5):386–9

[Nocturnal enuresis (editorial)] Guignard JP. **Pediatrie** 1989; 44(7):519–21 (28 ref.) (Fre)

[Cooperation and termination of treatment: a study of the course of therapy of children with enuresis] Quaschner K, et al. **Z Kinder Jugendpsychiatr** 1989 Sep;17(3):119–24 (Eng. Abstr.) (Ger)

[Treatment of enuresis by the epidural infiltration of distilled water. Clinico-statistical and therapeutic considerations in a series of 48 treated cases] Bâda V, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Apr–Jun;93(2):377–80 (Eng. Abstr.) (Rum)

[The effectiveness of the combined treatment of enuresis] Tret'iakova EE. **Zh Nevropatol Psikhiatr** 1990;90(5):121–4 (Eng. Abstr.) (Rus)

ENV GENE PRODUCTS see **GENE PRODUCTS, ENV**

ENV GENES see **GENES, ENV**

ENV POLYPROTEINS see **GENE PRODUCTS, ENV**

ENV PROTEIN GP41, HIV see **HIV ENVELOPE PROTEIN GP41**

ENV PROTEIN GP120, HIV see **HIV ENVELOPE PROTEIN GP120**

ENVELOPE GLYCOPROTEIN GP120, HIV see **HIV ENVELOPE PROTEIN GP120**

ENVELOPE PROTEIN GP41, HIV see **HIV ENVELOPE PROTEIN GP41**

ENVELOPE PROTEINS, VIRAL see **VIRAL ENVELOPE PROTEINS**

ENVIOMYCIN see under **VIOMYCINS**

ENVIRONMENT

see related
SOCIAL ENVIRONMENT

Using MZ twins in experimental research to test for the presence of a genotype-environment interaction effect. Bouchard C, et al. **Acta Genet Med Gemellol (Roma)** 1990; 39(1):85–9

Ethnic and genetic differences in bone mass: a review with a hereditary vs environmental perspective [published erratum appears in Am J Clin Nutr 1990 Jul;52(1):181] Pollitzer WS, et al. **Am J Clin Nutr** 1989 Dec;50(6):1244–59 (90 ref.)

Environmental factors and the risk for childhood pedestrian-motor vehicle collision occurrence. Mueller BA, et al. **Am J Epidemiol** 1990 Sep;132(3):550–60

Environmental index in genetic epidemiology: an investigation of its role, adequacy, and limitations. Rao DC, et al. **Am J Hum Genet** 1990 Jan;46(1):168–78

Uses of the HOME inventory for families with handicapped children. Bradley RH, et al. **Am J Ment Retard** 1989 Nov; 94(3):313–30

Sound environment of the fetal sheep. Gerhardt KJ, et al. **Am J Obstet Gynecol** 1990 Jan;162(1):282–7

Maternal environment and development of high blood pressure in Dahl hypertensive rats. Murphy CA, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):H1396–401

Entrainment of circadian phase in developing gray short-tailed opossums: mother vs. environment. Rivkees SA, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E384–8

Who will manage the environment? [editorial; comment] Gordon LJ. **Am J Public Health** 1990 Aug;80(8):904–5 Comment on: Am J Public Health 1990 Aug;80(8):913–20.

Using nature to understand nurture [editorial] VanItallie TB, et al. **Am J Public Health** 1990 Jun;80(6):657–8

Home dampness and respiratory morbidity in children. Brunekreef B, et al. **Am Rev Respir Dis** 1989 Nov; 140(5):1363–7

Effects of environmental changes on the phenotypic expression of human polygenic traits. Ulizzi L, et al. **Ann Hum Genet** 1988 Oct;52 (Pt 4):341–9

Consequences of rural development on vectors and their control. Coosemans M, et al. **Ann Soc Belg Med Trop** 1990 Mar;70(1):5–23 (94 ref.)

Environmental change—description or prediction? [editorial] Schofield CJ. **Ann Soc Belg Med Trop** 1990 Mar;70(1):1–3

The environment and the virus. Cox JP. **Arch Environ Health** 1966 Jan;12(1):91–100

Physical and chemical changes in the ambient environment. Kehoe RA. **Arch Environ Health** 1966 Jan;12(1):72–7

Differential effects of ward settings on psychiatric staff. Moos RH, et al. **Arch Gen Psychiatry** 1967 Jul;17(1):75–82

Interactive effects of nutrition, environment, and rat-strain on cortical and vertebral bone geometry and biomechanics. Zernicke RF, et al. **Aviat Space Environ Med** 1990 Jul; 61(7):640–7

A hygienic survey of the environment of underground space and buildings. Lin Y. **Biomed Environ Sci** 1989 Sep; 2(3):282–6

Genetic and early environmental components in sociodemographic influences on adult body fatness. Teasdale TW, et al. **BMJ** 1990 Jun 23;300(6740):1615–8

Effects of preweaning environmental enrichment on basilar dendrites of pyramidal neurons in occipital cortex: a Golgi study. Venable N, et al. **Brain Res Dev Brain Res** 1989 Sep 1;49(1):140–4

Activity levels as a dimension of temperament in toddlers: its relevance for the organismic specificity hypothesis. Gandour MJ. **Child Dev** 1989 Oct;60(5):1092

The influence of diet and environment. Fernandes G. **Curr Opin Immunol** 1989 Dec;2(2):275–81 (40 ref.)

Negligible effects of previous moderate physical activity and changes in environmental temperature on whole body electrical impedance. Garby L, et al. **Eur J Clin Nutr** 1990 Jul;44(7):545–6

Science and the environment—challenges, risks, and the future. Mittelstrass J. **Eur J Clin Pharmacol** 1990;38(1):1–4

Energy substrate utilization during exercise in extreme environments. Young AJ. **Exerc Sport Sci Rev** 1990; 18:65–117 (141 ref.)

Effect of available surface water on levels of antidiuretic hormone (lysine vasopressin) and water and electrolyte metabolism of the Rottnest Island quokka (Setonix brachyurus). Jones ME, et al. **Gen Comp Endocrinol** 1990 Jan;77(1):75–87

Familial and environmental aetiologic factors in paranoid psychosis quantified by a new statistical method. Axelsson R, et al. **Hereditas** 1989;111(3):265–71

Longevity enhances selection of environmental sex determination. Bull JJ, et al. **Heredity (Edinburgh)** 1989 Dec;63 (Pt 3):315–20

Vertical distribution of Anopheles stephensi larvae in Calcutta. Chatterjee KK, et al. **Indian J Malariol** 1988 Dec; 25(2):107–8

An introduction to the theory of NON-uniformity of hygrothermal constituent of the environment. Joki MV. **Int J Biometeorol** 1989 Dec;33(4):209–14

Dermatology and the environment: a unique opportunity. Grupenhoff JT. **J Am Acad Dermatol** 1990 Mar;22(3):521–2

Effects of redesigning the physical environment on self-stimulation and on-task behavior in three autistic-type developmentally disabled individuals. Duker PC, et al. **J Autism Dev Disord** 1989 Sep;19(3):449–60

Variables associated with frequency of rumination in a boy with profound mental retardation. Humphrey FJ 2d, et al. **J Autism Dev Disord** 1989 Sep;19(3):435–47

Relationship of cecal and colonic motility to diet, habitat, and cecal anatomy in several avian species. Duke GE. **J Exp Zool Suppl** 1989;3:38–47

Impedance tympanometry and the home environment in seven-year-old children. Strachan DP. **J Laryngol Otol** 1990 Jan;104(1):4–8

Parameter estimation in a special reaction-diffusion system modelling man-environment diseases. Kunisch K, et al. **J Math Biol** 1989;27(6):633–65

Head-direction cells recorded from the postsubiculum in freely moving rats. II. Effects of environmental manipulations. Taube JS, et al. **J Neurosci** 1990 Feb; 10(2):436–47

Identifying stimuli in the natural environment that control verbal responses. Halle JW. **J Speech Hear Disord** 1989 Nov;54(4):500–4

The primary sex ratio under environmental sex determination. Charnov EL, et al. **J Theor Biol** 1989 Aug 22;139(4):431–6

Quinolones and the environment [letter] [see comments] Midtvedt T. **Lancet** 1989 Oct 28;2(8670):1040 Comment in: Lancet 1989 Dec 2;2(8675):1339.

European charter on environment and health [letter] Scott-Samuel A. **Lancet** 1990 Apr 21;335(8695):980

Environmental optimization and shielding for NMR experiments and imaging in the earth's magnetic field. Favre B, et al. **Magn Reson Med** 1990 Feb;13(2):299–304

The International Society of Doctors for Environment [letter] Gray J. **Med J Aust** 1990 Apr 16;152(8):446

Unstable hemoglobins: influence of environment on phenotypic expression of a genetic disorder. Zinkham WH, et al. **Medicine (Baltimore)** 1989 Sep;68(5):309–20 (84 ref.)

The overnight thermal environment of infants. Tuohy PG, et al. **N Z Med J** 1990 Feb 14;103(883):36–8

Host-parasitoid associations in patchy environments. Pacala SW, et al. **Nature** 1990 Mar 8;344(6262):150–3

Environmental risk factors in Parkinson's disease. Koller W, et al. **Neurology** 1990 Aug;40(8):1218–21

An automated method of quantifying retinal vascular responses during exposure to novel environmental conditions. Meehan RT, et al. **Ophthalmology** 1990 Jul; 97(7):875–81

Intellectual and adaptive functioning in individuals with Down syndrome in relation to age and environmental placement. Brown FR 3d, et al. **Pediatrics** 1990 Mar;85(3 Pt 2):450–2

Experience affects cortical but not subcortical polyamines. Perchmin PA, et al. **Pharmacol Biochem Behav** 1990 Jan; 35(1):255–8

Situational specificity of tolerance to decreased operant responding by cocaine. Smith JB. **Pharmacol Biochem Behav** 1990 Jul;36(3):473–7

Aversive environmental stimuli as a factor in the psychostimulant response to nicotine. Vale AL, et al. **Pharmacol Biochem Behav** 1989 Apr;32(4):857–60

Hippocampal electrical activity during social interactions in rabbits living in a seminatural environment. Fontani G, et al. **Physiol Behav** 1990 Jan;47(1):175–83

Environment-specific conditioning produced by electrical stimulation of the lateral hypothalamus. Healey PA, et al. **Physiol Behav** 1989 Nov;46(5):907–12

Environmental influences on masculine sexual behavior in mice. Wee BE, et al. **Physiol Behav** 1989 Nov;46(5):867–72

Restricted daily exposure to environmental enrichment increases the diversity of exploration. Widman DR, et al. **Physiol Behav** 1990 Jan;47(1):57–62

Environamental regulation of reproduction in an opportunistic breeder: the musk shrew (Insectivora: Suncus murinus). Wayne NL, et al. **Prog Clin Biol Res** 1990;342:668–72

Changes in locomotion and dopamine neurotransmission following amphetamine, haloperidol, and exposure to novel environmental stimuli. Bardo MT, et al. **Psychopharmacology (Berl)** 1990;101(3):338–43

Central effects of corticotropin releasing factor (CRF): evidence for similar interactions with environmental novelty and with caffeine. Britton DR, et al. **Psychopharmacology (Berl)** 1990;101(3):366–70

Distance between homes and exercise facilities related to frequency of exercise among San Diego residents. Sallis JF, et al. **Public Health Rep** 1990 Mar–Apr;105(2):179–85

Genetic and environmental influences on obesity assessed by the adoption method. Sørensen TI. **Rev Epidemiol Sante Publique** 1989;37(5–6):525–31

Behavioral and psychophysiological effects of the physical work environment. Stockholm, Sweden, April 1988. Proceedings. **Scand J Work Environ Health** 1990;16 Suppl 1:5–79

Behavioral and psychophysiological effects of the physical work environment. Research strategies and measurement methods. Gamberale F, et al. **Scand J Work Environ Health** 1990;16 Suppl 1:5–16 (42 ref.)

Environmental chemistry of chromium. Rai D, et al. **Sci Total Environ** 1989 Oct 1;86(1–2):15–23

Kinetics of chromium transformations in the environment. Saleh FY, et al. **Sci Total Environ** 1989 Oct 1;86(1–2):25–41

Interaction of temperature with other environmental factors in controlling the development of plants. Porter JR, et al. **Symp Soc Exp Biol** 1988;42:133–56 (57 ref.)

Physical change, time of day, and child characteristics as factors in poison injury. Garrettson LK, et al. **Vet Hum Toxicol** 1990 Apr;32(2):139–41

High school football injuries: field conditions and other factors. Andresen BL, et al. **Wis Med J** 1989 Oct; 88(10):28–31

[Epidemiology of Horton's disease. Is there an environmental factor, infective in particular?] Barrier JH, et al. **J Mal Vasc** 1989;14 Suppl C:123–7 (33 ref.) (Eng. Abstr.) (Fre)

[Comparison of observed and expected person-years: a simulated approach] Luce D, et al. **Rev Epidemiol Sante Publique** 1990;38(2):153–8 (Eng. Abstr.) (Fre)

[Effect of the environment on the development of respiratory allergies] Pauli G, et al. **Rev Pneumol Clin** 1989;45(6):231–6 (34 ref.) (Eng. Abstr.) (Fre)

[Environment and occurrence of epidemics] Mayr A. **Zentralbl Hyg Umweltmed** 1990 May;190(1–2):1–12 (16 ref.) (Eng. Abstr.) (Ger)

[Human ecology: current state and the prospects of its development] Agadzhanian NA. **Vestn Akad Med Nauk SSSR** 1989;(8):4–14 (Eng. Abstr.) (Rus)

[The importance of work conditions in the textile industry to worker absenteeism] Belojević G, et al. **Arh Hig Rada Toksikol** 1990 Mar;41(1):25–34 (Eng. Abstr.) (Scr)

ENVIRONMENT, CONTROLLED

see related
ATMOSPHERE EXPOSURE CHAMBERS
INCUBATORS

Laminar airflow systems. Issues surrounding their effectiveness. McQuarrie DG, et al. **AORN J** 1990 Apr; 51(4):1035–48 (42 ref.)

Effects of new and artificial environments on human physiology. Bond GF. **Arch Environ Health** 1966 Jan; 12(1):85–90

An analysis of personnel dose records which justifies the application of cost–benefit analysis techniques in the design of an afterloading facility and the use of controlled areas and systems of work within suite to control occupational exposure. Gifford D, et al. **Br J Radiol** 1990 Mar; 63(747):214–8

Electronic particle counting for evaluating the quality of air in operating theatres: a potential basis for standards? Seal DV, et al. **J Appl Bacteriol** 1990 Mar;68(3):225–30

Control of an outbreak of nosocomial aspergillosis by laminar air–flow isolation. Barnes RA, et al. **J Hosp Infect** 1989 Aug;14(2):89–94

The effects of a microgravitational environment on the blood pressure maturation curve in normotensive rats. Magrini F, et al. **J Hypertens Suppl** 1989 Dec;7(6):S74–5

Designing sterile environments. Beer MJ. **J R Soc Health** 1989 Dec;109(6):197–8, 203

[The treatment of burns of the hands in local isolators with a regulated abacterial environment] Dakova B. **Khirurgiia (Sofiia)** 1989;42(6):23–6 (Bul)

[The shaping of the functional state of the respiratory and thermoregulatory systems during work in an atmosphere with an elevated carbon dioxide content] Levinskiĭ SV, et al. **Fiziol Cheloveka** 1990 Jan–Feb;16(1):133–40 (Rus)

[Standardization of overall microbial air pollution in sealed small-volume spaces] Kudrin AI. **Voen Med Zh** 1990 Feb; (2):50–2 (Rus)

[Quantitative assessment of maps of the cortical background potentials during the adaptation of freely moving animals to environmental situations] Knipst IN. **Zh Vyssh Nerv Deiat** 1989 May–Jun;39(3):440–8 (Eng. Abstr.) (Rus)

ENVIRONMENT DESIGN

Residential environment and self-directedness among older people. Lawton MP. **Am Psychol** 1990 May;45(5):638–40

Workspace for disabled people. Nowak E. **Ergonomics** 1989 Sep;32(9):1077–88

Ergonomic deficiencies: II. Probable causes. Ayoub MA. **J Occup Med** 1990 Feb;32(2):131–6

Ergonomic deficiencies: III. Root causes and their correction. Ayoub MA. **J Occup Med** 1990 May;32(5):455–60

Designing sterile environments. Beer MJ. **J R Soc Health** 1989 Dec;109(6):197–8, 203

Amplification for the hearing impaired in auditoria. Snashall SE, et al. **J R Soc Med** 1989 Jun;82(6):322–3

ENVIRONMENTAL AIR POLLUTANTS see **AIR POLLUTANTS, ENVIRONMENTAL**

ENVIRONMENTAL EXPOSURE

see related
ENVIRONMENTAL MONITORING
OCCUPATIONAL DISEASES

Radiation exposure of pediatrics residents. Adler R, et al. **Acad Med** 1990 Jun;65(6):419–20

Congenital malformations and the environment. Rokicki W, et al. **Acta Paediatr Scand Suppl** 1989;360:140–5

Hypertension and radiation [letter] Bean WJ, et al. **AJR Am J Roentgenol** 1990 Mar;154(3):659–60

Results of an indoor air pollution investigation. Beller M, et al. **Alaska Med** 1989 Jul–Dec;31(4):148–55

Sick building syndrome: acute illness among office workers—the role of building ventilation, airborne contaminants and work stress. Letz GA. **Allergy Proc** 1990 May–Jun;11(3):109–16 (20 ref.)

Occupational exposure limits for carcinogens—variant approaches by different countries. Cook WA. **Am Ind Hyg Assoc J** 1989 Sep;50(9):A680–4

Evaluation of methods for enumerating microorganisms in filter samples from highly contaminated occupational environments. Eduard W, et al. **Am Ind Hyg Assoc J** 1990 Aug;51(8):427–36

Occupational exposure and analysis of microcrystalline cristobalite in mullite operations. Janko M, et al. **Am Ind Hyg Assoc J** 1989 Sep;50(9):460–5

Occupational exposure limits: their critical role in preventive medicine and risk management [comment] Paustenbach DJ. **Am Ind Hyg Assoc J** 1990 May;51(5):A332–6 Comment on: Am Ind Hyg Assoc J 1990 Jan;51(1):A9–10.

Industrial hygiene with no limits [editorial] [see comments] Tarlau ES. **Am Ind Hyg Assoc J** 1990 Jan;51(1):A9–10 Comment in: Am Ind Hyg Assoc J 1990 May;51(5):A332–6.

Incidence of leukemia in occupations with potential electromagnetic field exposure in United States Navy personnel. Garland FC, et al. **Am J Epidemiol** 1990 Aug; 132(2):293–303

Paternal occupational exposure to electromagnetic fields and neuroblastoma in offspring. Wilkins JR 3d, et al. **Am J Epidemiol** 1990 Jun;131(6):995–1008

But they are not thresholds: a critical analysis of the documentation of Threshold Limit Values. Roach SA, et al. **Am J Ind Med** 1990;17(6):727–53 (161 ref.)

Occupational exposure standards in Canada: from ACGIH to? Sentes R. **Am J Ind Med** 1989;16(6):719–22

Healthy worker and healthy survivor effects in relation to the cancer risks of radiation workers. Stewart AM. **Am J Ind Med** 1990;17(2):151–4

Low-level lead exposure, blood pressure, and calcium metabolism. Morris C, et al. **Am J Kidney Dis** 1990 Jun; 15(6):568–74

Blood exposure in single versus double gloving during pelvic surgery. Cohn GM, et al. **Am J Obstet Gynecol** 1990 Mar; 162(3):715–7

A statewide case registry for surveillance of occupational heavy metals absorption [see comments] Baser ME, et al. **Am J Public Health** 1990 Feb;80(2):162–4 Comment in: Am J Public Health 1990 Aug;80(8):1003.

An analysis of occupational risks for brain cancer. Brownson RC, et al. **Am J Public Health** 1990 Feb;80(2):169–72

Potential for laboratory exposures to biohazardous agents found in blood [published erratum appears in Am J Public Health 1990 Jun;80(6):658] Evans MR, et al. **Am J Public Health** 1990 Apr;80(4):423–7

Workplace health hazards: analysis of hotline calls over a six-year period. Quint J, et al. **Am J Public Health** 1990 Feb;80(2):202–4

A rural outbreak of Legionnaires' disease linked to visiting a retail store. Redd SC, et al. **Am J Public Health** 1990 Apr;80(4):431–4

Occupational and other exposures associated with male end-stage renal disease: a case/control study. Steenland NK, et al. **Am J Public Health** 1990 Feb;80(2):153–7

Clinical ecology and the open mind [letter; comment] Harris C. **Ann Intern Med** 1989 Oct 15;111(8):690 Comment on: Ann Intern Med 1989 Jul 15;111(2):104–6.

Toxic agoraphobia [letter; comment] Kurt TL, et al. **Ann Intern Med** 1990 Feb 1;112(3):231–2 Comment on: Ann Intern Med 1989 Jul 15;111(2):104–6.

Multiple chemical hypersensitivities [letter] McLellan RK. **Ann Intern Med** 1989 Dec 1;111(11):953

Italo-Hungarian Meeting on Genotoxicity of Environmental Chemicals: Scientific and Regulatory Aspects. Rome, April 28–29, 1988. **Ann Ist Super Sanita** 1989;25(4):541–612

Worker-notification activities at the National Institute for Occupational Safety and Health. Past and present. Baker EL, et al. **Ann N Y Acad Sci** 1989;572:144–50; discussion 163–5

The role of the worksite inspection under the Occupational Safety and Health Act. Reflections on 17 years of OSHA experience. Corn M. **Ann N Y Acad Sci** 1989;572:184–8; discussion 221–3

Worksite inspection and the control of occupational disease. The OSHA experience. Froines JR. **Ann N Y Acad Sci** 1989;572:177–83; discussion 221–3

The right to know in the workplace. The moral dimension. Millar JD. **Ann N Y Acad Sci** 1989;572:113–21; disc. 121–3, 142–3

Occupational exposure limits for therapeutic substances. Agius R. **Ann Occup Hyg** 1989;33(4):555–62 (29 ref.)

Indicative criteria for the new occupational exposure limits under COSHH [letter] Carter JT. **Ann Occup Hyg** 1989; 33(4):651–2

An evaluation of postural and environmental stress at workplaces in smitheries (a case study). Wichtl M. **Ann Physiol Anthropol** 1989 Jan;8(1):45–8

Indoor radon exposure and lung cancer in Belgium. Poffijn A, et al. **Arch Belg** 1989;47(1–4):104–6

Cumulative damage models of additional exposures and host factors. Becker N. **Arch Environ Health** 1989 Sep–Oct; 44(5):331–6

Threshold limit values. Coles GV. **Arch Environ Health** 1990 Jul–Aug;45(4):248–50

Biochemical and biological markers: implications for epidemiologic studies. Griffith J, et al. **Arch Environ Health** 1989 Nov–Dec;44(6):375–81

Health status of copper refinery workers with specific reference to selenium exposure. Holness DL, et al. **Arch Environ Health** 1989 Sep–Oct;44(5):291–7 (49 ref.)

Detection of excess disease near an exposure point: a case study. Schulman J, et al. **Arch Environ Health** 1990 May–Jun;45(3):168–74

Unexplained medical symptoms and disease patterns. Their possible relationship to environment. Soffer A. **Arch Environ Health** 1966 Jan;12(1):111–4

Immune activation and autoantibodies in humans with long-term inhalation exposure to formaldehyde. Thrasher JD, et al. **Arch Environ Health** 1990 Jul–Aug;45(4):217–23

Formation of morphologically unusual features, associated with immunodeficiencies, in lymph nodes of gnotobiotic rats exposed to a conventional milieu. Sainte-Marie G, et al. **Arch Histol Cytol** 1990 Mar;53(1):55–61

Using argon laser blue light reduces ophthalmologists' color contrast sensitivity. Argon blue and surgeons' vision. Berninger TA, et al. **Arch Ophthalmol** 1989 Oct; 107(10):1453–8

Occupational exposure standards for pharmaceutical agents. Aw TC, et al. **Asia Pac J Public Health** 1989;3(2):156–9

Control of substances hazardous to health [editorial] Aw TC. **BMJ** 1989 Oct 14;299(6705):931–2

Foetotoxic effects of mercury vapour [letter] Scully C. **Br Dent J** 1989 Nov 25;167(10):332

COSHH and the NHS [editorial] Waldron HA. **Br J Ind Med** 1989 Nov;46(11):753–4

Investigations into the effect on rats of volatile organic compounds released from the set of building and finishing materials. Wiglusz R, et al. **Bull Inst Marit Trop Med Gdynia** 1988;39(3–4):205–14

A study of mortality near sour gas refineries in southwest Alberta: an epidemic unrevealed. Schechter MT, et al. **Can J Public Health** 1990 Mar–Apr;81(2):107–13

Workplace Hazardous Material Information System (WHMIS) and universal precautions: a sensible approach.

Yassi A, et al. **Can J Public Health** 1989 Nov–Dec; 80(6):450–1

Accidental acute exposure to doxorubicin. Curran CF, et al. **Cancer Nurs** 1989 Dec;12(6):329–31

Measurement of specific IgE antibodies in individuals exposed to formaldehyde. Kramps JA, et al. **Clin Exp Allergy** 1989 Sep;19(5):509–14

Radiation exposure from fluoroscopy during orthopedic surgical procedures [letter] Schneider M. **Clin Orthop** 1990 Aug;(257):311–2

Allergic investigations in patients with the sick building syndrome. Thestrup-Pedersen K, et al. **Contact Dermatitis** 1990 Jul;23(1):53–5

Minimizing the risk of oral aluminium exposure in chronic renal failure. Cannata JB, et al. **Contrib Nephrol** 1989; 71:81–9 (20 ref.)

Estimation of exposure time distributions. Alho JM. **Demography** 1990 May;27(2):313–21

Mycosis fungoides and occupational exposures. Is there an association? Abel EA. **Dermatol Clin** 1990 Jan;8(1):169–71

Comparison of three assays for genetic effects of antineoplastic drugs on cancer patients and their nurses. Krepinsky A, et al. **Environ Mol Mutagen** 1990;15(2):83–92

Fiber exposure reassessed with the new indices. Schneider T, et al. **Environ Res** 1990 Feb;51(1):108–16

The influence of personal activities on exposure to volatile organic compounds. Wallace LA, et al. **Environ Res** 1989 Oct;50(1):37–55

Legionnaires' disease and the sick-building syndrome. O'Mahony M, et al. **Epidemiol Infect** 1989 Oct; 103(2):285–92

Histological and histochemical study of gingival papillae in patients with paradontosis engaged in pesticide production. Popova E, et al. **Folia Med (Plovdiv)** 1988;30(2):25–32

Minimizing EtO exposure when changing gas cylinders. **Health Devices** 1989 Jul–Aug;18(7–8):290

Reply to radiation cancer risk series [letter] Moghissi AA, et al. **Health Phys** 1989 Nov;57(5):841–2

Further observations on environmental radiation and cancer in India. Nambi KS, et al. **Health Phys** 1990 Sep; 59(3):339–44

Failing to prove danger is no proof of safety [letter] Sorić B. **Health Phys** 1990 Oct;59(4):483

Mortality of Hanford workers [letter; comment] Stewart A, et al. **Health Phys** 1989 Nov;57(5):839–41 Comment on: Health Phys 1989 Jan;56(1):11–25.

Bronchoalveolar lavage study in victims of toxic gas leak at Bhopal. Vijayan VK, et al. **Indian J Med Res** 1989 Dec; 90:407–14

Psycho-social aspects of workers of sugar factories in Distt Gorakhpur. Sandell J, et al. **Indian J Public Health** 1988 Jul–Sep;32(3):137–41

Zeroing in on the appropriate management of occupational exposures to HIV-1 [editorial] Henderson DK. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):175–7

Medical ostriches [editorial] LaBrecque DR. **Infect Control Hosp Epidemiol** 1990 Mar;11(3):126–8

Adverse exposures and universal precautions practices among a group of highly exposed health professionals. Willy ME, et al. **Infect Control Hosp Epidemiol** 1990 Jul;11(7):351–6

Occupational exposure and incidence of chronic respiratory symptoms among residents of Cracow followed for 13 years. Krzyzanowski M, et al. **Int Arch Occup Environ Health** 1990;62(4):311–7

Sister chromatid exchanges and chromosome aberration frequencies in plutonium workers. Brandom WF, et al. **Int J Radiat Biol** 1990 Jul;58(1):195–207

Nitrous oxide anaesthesia: risks to health personnel. Schumann D. **Int Nurs Rev** 1990 Jan–Feb;37(1):214–7 (44 ref.)

Hepatitis. The forgotten disease. Wagner K, et al. **J Am Podiatr Med Assoc** 1990 Aug;80(8):438–40 (7 ref.)

Asbestos as a health hazard: a course for college students [letter] McIntyre OR. **J Cancer Educ** 1988;3(1):9–10

Employment status as a confounder when assessing occupational exposures and spontaneous abortion. Lemasters GK, et al. **J Clin Epidemiol** 1989;42(10):975–81

Assessing risks and preventing disease from environmental chemicals. Dunnette DA. **J Community Health** 1989 Fall; 14(3):169–86

Immunological profiles in workers occupationally exposed to inorganic mercury. Bencko V, et al. **J Hyg Epidemiol Microbiol Immunol** 1990;34(1):9–15

Use of precautions by nurse-midwives to prevent occupational infections with HIV and other blood-borne diseases. Loewen NL, et al. **J Nurse Midwifery** 1989 Nov–Dec;34(6):309–17

Potential workplace hazards to reproductive health. Information for primary prevention. Bernhardt JH. **J Obstet Gynecol Neonatal Nurs** 1990 Jan–Feb;19(1):53–62 (38 ref.)

Occupational Medicine Forum. Anstadt GW. **J Occup Med** 1989 Dec;31(12):955–6

Male- and female-mediated reproductive effects of occupation: the use of questionnaire methods. Joffe M. **J Occup Med** 1989 Dec;31(12):974–9

Evaluation of recruitment strategies for prospective studies of spontaneous abortion. Sweeney AM, et al. **J Occup Med** 1989 Dec;31(12):980–5

Threshold limit values: historical perspectives and current practice. Ziem GE, et al. **J Occup Med** 1989 Nov; 31(11):910–8 (55 ref.)

Studies in oral galvanism: mercury and copper levels in urine, blood and saliva in submerged electrically cutting divers. Ortendahl TW, et al. **J Oral Rehabil** 1989 Nov;16(6):559–73 (40 ref.)

Biomedical surveillance of workers exposed to 4,4'-methylene-bis-(2-chloroaniline) (MBOCA) in Perth, Western Australia. Wan KC, et al. **J R Soc Health** 1989 Oct;109(5):159–65

Asbestos exposure in schools. Godish D. **J Sch Health** 1989 Oct;59(8):362–3

Winter-to-winter variations in indoor radon. Mose DG, et al. **J Toxicol Environ Health** 1989;28(2):129–50

Correspondence in cancer history between husbands and wives. Kato I, et al. **Jpn J Cancer Res** 1990 Jun–Jul; 81(6–7):584–9

Development of a new exposure monitoring system considering pulmonary ventilation (DEM 1). Satoh T, et al. **Keio J Med** 1989 Dec;38(4):432–42

Environmental medicine. **Med Clin North Am** 1990 Mar; 74(2):235–546

Disease-causing effects of environmental chemicals. Hogan MD, et al. **Med Clin North Am** 1990 Mar;74(2):461–73

Environmentally related disorders of the hematologic and immune systems. Luster MI, et al. **Med Clin North Am** 1990 Mar;74(2):425–40 (65 ref.)

Reproductive toxicity: male and female reproductive systems as targets for chemical injury. Mattison DR, et al. **Med Clin North Am** 1990 Mar;74(2):391–411 (87 ref.)

Environmentally related disorders of the cardiovascular system. Rosenman KD. **Med Clin North Am** 1990 Mar; 74(2):361–75

Environmental diseases of the digestive system. Rubin E, et al. **Med Clin North Am** 1990 Mar;74(2):413–24 (54 ref.)

Homovanillic acid (HVA) and manganese in urine of workers exposed in a ferromanganese alloy plant. Siqueira ME, et al. **Med Lav** 1989 May–Jun;80(3):224–8

NIOSH current intelligence bulletins on workplace hazards. **MMWR** 1990 Jun 22;39(24):417–9

Genetic toxicology testing and biomonitoring of environmental or occupational exposure. **Mutat Res** 1989 Oct;224(2):135–318

Urine mutagenicity of petroleum plant workers. Sadurska B, et al. **Mutat Res** 1989 Oct;224(2):147–50

Localization of breakpoints in the karyotype of workers professionally exposed to benzene. Sąsiadek M, et al. **Mutat Res** 1989 Oct;224(2):235–40

Clastogenic activity in urine of workers occupationally exposed to pesticides. See RH, et al. **Mutat Res** 1990 Jul; 241(3):251–9

Exposure level monitor of a carcinogenic glutamic acid pyrolysis product in rabbits. Yin Y, et al. **Mutat Res** 1989 Nov;215(1):107–13

More radiation hazards [news] Aldhous P. **Nature** 1990 Mar 15;344(6263):184

Nuclear safety. US response to Sellafield data [news] Anderson GC. **Nature** 1990 Mar 15;344(6263):184

Irradiated cells [letter] Hamilton EI. **Nature** 1990 Apr 5; 344(6266):496–7

Hanford nuclear radiation doses assessed [news] Shulman S. **Nature** 1990 Jul 19;346(6281):205

Staff radiation doses associated with nuclear medicine procedures—a review of some recent measurements. Harding LK, et al. **Nucl Med Commun** 1990 Apr; 11(4):271–7 (22 ref.)

Understanding effects on workers helps in solving IAQ problems. Burton DJ. **Occup Health Saf** 1990 Jul;59(7):47, 56

Problem buildings: building-associated illness and the sick building syndrome. **Occup Med** 1989 Oct–Dec;4(4):575–797

Social and organizational factors in office building-associated illness. Baker DB. **Occup Med** 1989 Oct–Dec;4(4):607–24 (53 ref.)

Regulation and its role in the prevention of building-associated illness. Besch EL. **Occup Med** 1989 Oct–Dec;4(4):741–52 (59 ref.)

Indoor air and infectious disease. Burge HA. **Occup Med** 1989 Oct–Dec;4(4):713–21 (47 ref.)

Volatile organic compounds and building bake-out. Girman JR. **Occup Med** 1989 Oct–Dec;4(4):695–712 (34 ref.)

Clinical diagnosis and management of building-related illness and the sick-building syndrome. Hodgson MJ. **Occup Med** 1989 Oct–Dec;4(4):593–606 (54 ref.)

Environmental tobacco smoke and the sick building syndrome. Hodgson MJ. **Occup Med** 1989 Oct–Dec; 4(4):735–40 (32 ref.)

The epidemiology of building-related complaints and illness. Kreiss K. **Occup Med** 1989 Oct–Dec;4(4):575–92 (64 ref.)

The role of combustion products in building-associated illness. Lambert WE, et al. **Occup Med** 1989 Oct–Dec; 4(4):723–33 (54 ref.)

Building materials and indoor air quality. Levin H. **Occup Med** 1989 Oct–Dec;4(4):667–93 (38 ref.)

The effects of building design and use on air quality. Loftness V, et al. **Occup Med** 1989 Oct–Dec;4(4):643–65 (18 ref.)

Role of ventilation in the causation of building-associated illnesses. Morey PR, et al. **Occup Med** 1989 Oct–Dec; 4(4):625–42 (15 ref.)

Protocol for the comprehensive evaluation of building-associated illness. Quinlan P, et al. **Occup Med** 1989 Oct–Dec;4(4):771–97 (14 ref.)

Cost avoidance and productivity in owning and operating buildings. Woods JE. **Occup Med** 1989 Oct–Dec; 4(4):753–70 (38 ref.)

Sick building syndrome. Robertson A. **Practitioner** 1989 Sep 22;233(1475):1250–2

Public concern about chemicals in the environment: regional differences based on threat potential. Howe HL. **Public Health Rep** 1990 Mar–Apr;105(2):186–95

Self-reported exposure to pesticides and radiation related to pregnancy outcome—results from National Natality and Fetal Mortality Surveys. Savitz DA, et al. **Public Health Rep** 1989 Sep–Oct;104(5):473–7

Childhood leukemia at Sellafield. Abrahamson S. **Radiat Res** 1990 Aug;123(2):237–8

Poisson regression analysis of the mortality among a cohort of World War II nuclear industry workers. Frome EL, et al. **Radiat Res** 1990 Aug;123(2):138–52

Analyses of combined mortality data on workers at the Hanford Site, Oak Ridge National Laboratory, and Rocky Flats Nuclear Weapons Plant. Gilbert ES, et al. **Radiat Res** 1989 Oct;120(1):19–35

Time of exposure as a prognostic factor in avian hypersensitivity pneumonitis. de Gracia J, et al. **Respir Med** 1989 Mar;83(2):139–43

Building sickness syndrome [editorial] Pickering CA. **Respir Med** 1989 Mar;83(2):91–2

Pleural mesothelioma resulting from exposure to amosite asbestos in a building. Stein RC, et al. **Respir Med** 1989 May;83(3):237–9

Analysis of change over time. Andersen PK. **Rev Epidemiol Sante Publique** 1989;37(5–6):507–14

Dual responses to increase validity in case-control studies. Salmi LR, et al. **Rev Epidemiol Sante Publique** 1990; 38(1):41–6

Human behavioral toxicology. Central nervous effects of low-dose exposure to neurotoxic substances in the work environment. Iregren A, et al. **Scand J Work Environ Health** 1990;16 Suppl 1:17–25 (59 ref.)

Indoor air quality and personal factors related to the sick building syndrome. Norbäck D, et al. **Scand J Work Environ Health** 1990 Apr;16(2):121–8

Carcinogenic effects of some polycyclic aromatic hydrocarbons on the Japanese medaka and guppy in waterborne exposures. Hawkins WE, et al. **Sci Total Environ** 1990 May 1;94(1–2):155–67

Health problems in Galena, Kansas: a heavy metal mining Superfund site. Neuberger JS, et al. **Sci Total Environ** 1990 May 15;94(3):261–72

Asbestos, carcinogenicity, and public policy [letter] **Science** 1990 May 18;248(4957):795–802

British radiation study throws experts into tizzy [news] Roberts L. **Science** 1990 Apr 6;248(4951):24–5

Risk assessors taken to task [news] Roberts L. **Science** 1990 Mar 9;247(4947):1173

Commentary on "Indoor Air Pollution and Pulmonary Performance: Investigating Errors in Exposure Assessment". Gleser LJ. **Stat Med** 1989 Sep;8(9):1127–31; discussion 1137–8

Indoor air pollution and pulmonary performance: investigating errors in exposure assessment. Hasabelnaby NA, et al. **Stat Med** 1989 Sep;8(9):1109–26; discussion 1137–8

Risk assessment and risk management. International Symposium on Chemical Mixtures: Risk Assessment and Management. The Jerry F. Stara Memorial Symposium. June 7–9, 1988, Cincinnati, Ohio. Proceedings. **Toxicol Ind Health** 1989 Oct;5(5):619–924

Significance of risk assessment in the management of environmental exposures to chemical mixtures. Newill VA. **Toxicol Ind Health** 1989 Oct;5(5):635–46

Application of pharmacokinetic principles to exposure to chemical mixtures. O'Flaherty EJ. **Toxicol Ind Health** 1989 Oct;5(5):667–80 (17 ref.)

Household exposure models. McKone TE. **Toxicol Lett** 1989 Dec;49(2–3):321–39 (39 ref.)

Radon exposure estimates. Stuart BO. **Toxicol Lett** 1989 Dec; 49(2–3):341–8 (17 ref.)

Filovirus infections among persons with occupational exposure to nonhuman primates. Update. **Wkly Epidemiol Rec** 1990 Jun 15;65(24):185–6 **(Eng, Fre)**

Abstracts of papers presented at the Second European Meeting of Environmental Hygiene. Düsseldorf, May 31–June 2, 1989. **Zentralbl Hyg Umweltmed** 1989 Oct; 189(1):62–101

Stabilization and prevention—a theoretical framework for environmental hygiene. Haider M. **Zentralbl Hyg Umweltmed** 1989 Dec;189(3):205–13 (14 ref.)

[Clinical environmental medicine. An examination of a case load from a 2-year project] Jacobsen P, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1817–9 (Eng. Abstr.) **(Dan)**

[Congenital abnormalities and mother's occupation] Beckers RF. **Arch Belg** 1988;46(9–10):415–22 (Eng. Abstr.) **(Dut)**

[Cancer in children—relationship with the occupational exposure to physical, chemical and/or biological agents of the parents?] De Quint P. **Arch Belg** 1989;47(1–4):113–7 (Eng. Abstr.) **(Dut)**

[Pop, rock, walk and buzz; modern noise and hearing] Feenstra L. **Ned Tijdschr Geneeskd** 1990 Mar 17; 134(11):517–9 **(Dut)**

[HIV occupational risk of surgical specialists and operating room personnel in the Saint Lucas Hospital in Amsterdam]

Leentvaar-Kuijpers A, et al. **Ned Tijdschr Geneeskd** 1989 Dec 2;133(48):2388–91 (Eng. Abstr.) **(Dut)**

[Dioxins, environment and health (published erratum appears in 1990 May 5;134(18):936)] Theelen RM, et al. **Ned Tijdschr Geneeskd** 1990 Mar 31;134(13):627–31 **(Dut)**

[Work, chemical agents and offspring] Zielhuis RL, et al. **Ned Tijdschr Geneeskd** 1990 Jul 21;134(29):1395–8 (15 ref.) **(Dut)**

[The surgeon in his practice in the radiation field. Introduction] Jortay A. **Acta Chir Belg** 1990 Mar–Apr; 90(2):69–71 **(Fre)**

[Occupational health and computerization of the tertiary sector. A global approach to current working conditions] Martin JM, et al. **Arch Belg** 1988;46(9–10):423–44 (Eng. Abstr.) **(Fre)**

[Pollution and human exposure: proposal of criteria for meeting the WHO recommendations in the matter of risk reduction related to the environment] Steenhout A, et al. **Arch Belg** 1989;47(1–4):90–2 (Eng. Abstr.) **(Fre)**

[Parkinson disease and environmental factors (letter)] Zayed J, et al. **Rev Epidemiol Sante Publique** 1990;38(2):159–60 **(Fre)**

[A case of diffuse pulmonary fibrosis in a diamond cutter] Gharbi R, et al. **Tunis Med** 1990 Jan;68(1):41–3 (Eng. Abstr.) **(Fre)**

[Nitrous oxide in anesthesia—present status of the use of nitrous oxide, risks for patients and personnel and treatment of side effects] Rupreht J, et al. **Anaesthesiol Reanim** 1989; 14(5):251–9 (26 ref.) (Eng. Abstr.) **(Ger)**

[Baking ingredients, especially alpha-amylase, as occupational inhalation allergens in the baking industry] Wüthrich B, et al. **Schweiz Med Wochenschr** 1990 Mar 31; 120(13):446–50 (Eng. Abstr.) **(Ger)**

[Case-control study for the diagnosis of occupational factors in bladder cancer] Frentzel-Beyme R, et al. **Soz Praventivmed** 1989;34(6):249–55 (Eng. Abstr.) **(Ger)**

[Measures in the case of an exposure to radiation over the permissible level] Heinemann G. **Strahlenschutz Forsch Prax** 1990;31:235–41 **(Ger)**

[7th meeting of the Society of Occupational Hygiene and Industrial Safety. 23–25 March 1988, Dresden. Proceedings] **Z Gesamte Hyg** 1989;35(8):450–511 **(Ger)**

[Health risks in the biotechnological industry] Colombi A, et al. **Z Gesamte Hyg** 1989;35(8):451–4 (Eng. Abstr.) **(Ger)**

[Lead exposure and mental processes. Contribution to the discussion on dose-response relationships following short-term exposure] Dotzauer H. **Z Gesamte Hyg** 1990 May;36(5):271–3 (Eng. Abstr.) **(Ger)**

[Epidemiological analysis of rank category exposure effects using cumulative logistic models] Enderlein G. **Z Gesamte Hyg** 1990 Jul;36(7):390–2 (Eng. Abstr.) **(Ger)**

[Permissible dermal exposure dose and safety level for herbicide residues as an occupational hygiene standard for the evaluation of exposure] Goedicke HJ, et al. **Z Gesamte Hyg** 1990 May;36(5):248–50 (Eng. Abstr.) **(Ger)**

[Hazardous lead exposure in the cleaning of a kiln used in the ceramics industry] Kieser J, et al. **Z Gesamte Hyg** 1990 Mar;36(3):166–8 (Eng. Abstr.) **(Ger)**

[Results of an epidemiological study with subsequent specialized diagnostic studies in dust exposure] Maintz G, et al. **Z Gesamte Hyg** 1990 Mar;36(3):158–60 (Eng. Abstr.) **(Ger)**

[Carboxylic acid anhydrides as a cause for occupational allergic respiratory tract diseases in the handling of epoxy resins] Schöneich R, et al. **Z Gesamte Hyg** 1990 Mar; 36(3):164–6 (Eng. Abstr.) **(Ger)**

[Pollinosis in chrysanthemum growers] Schubert H, et al. **Z Gesamte Hyg** 1990 Mar;36(3):162–3 (Eng. Abstr.) **(Ger)**

[Rhinolaryngological functional diagnosis in exposure to irritants] Winkler U. **Z Gesamte Hyg** 1990 Mar;36(3):160–2 (Eng. Abstr.) **(Ger)**

[Occupational factors in spontaneous abortion] Läpple M. **Zentralbl Gynakol** 1990;112(8):457–66 (0 ref.) (Eng. Abstr.) **(Ger)**

[Threshold values for chemicals to prevent disease] Schweinsberg F. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):207–16 (21 ref.) (Eng. Abstr.) **(Ger)**

[Evaluation of the terstogenic effects of occupational hazards during pregnancy] Király J, et al. **Orv Hetil** 1990 May 27;131(21):1133–4, 1137 (Eng. Abstr.) **(Hun)**

[Mapping of radiologic risks: community and hospital aspects. Experience of a local socio-health unit] Macchi C, et al. **Med Lav** 1989 May–Jun;80(3):218–23 (Eng. Abstr.) **(Ita)**

[The autonotification card: observations on the quality of responses (letter)] Miscetti G, et al. **Med Lav** 1989 Nov–Dec;80(6):525–7 **(Ita)**

[Evaluation of noise-induced injury: consideration of a group of exposed cement workers] Soleo L, et al. **Med Lav** 1989 May–Jun;80(3):229–43 (Eng. Abstr.) **(Ita)**

[Great depth pneumatic caisson and its load work involved with the efficiency of respiratory protection] Shibayama M, et al. **Ann Physiol Anthropol** 1989 Jul;8(3):155–64 (Eng. Abstr.) **(Jpn)**

[The actual state of occupational exposure to chlorpyrifos of termite control workers] Asakawa F, et al. **Nippon Eiseigaku Zasshi** 1989 Oct;44(4):921–8 (Eng. Abstr.) **(Jpn)**

[Variations in blood cholinesterase activity and exposure to chlorpyrifos in termite-control workers] Jitsunari F, et al. **Nippon Eiseigaku Zasshi** 1990 Feb;44(6):1049–58 (Eng. Abstr.) **(Jpn)**

[Transfer of fallout tritium from environment to human body] Hisamatsu S, et al. **Radioisotopes** 1989 Sep;38(9):381–9 (63 ref.) **(Jpn)**

[Health care of workers engaged in waste water treatment. 1) The exposure conditions to organic solvents in workers engaged in waste water treatment] Ikatsu H, et al. **Sangyo Igaku** 1989 Sep;31(5):355–62 (Eng. Abstr.) **(Jpn)**

[Association between parental occupational exposure and childhood malignancy. A review of epidemiological studies] Kishi R, et al. **Sangyo Igaku** 1989 May;31(3):121–35 (57 ref.) (Eng. Abstr.) **(Jpn)**

[Pyrimidine nucleotides accumulated in erythrocytes of lead workers] Sakai T, et al. **Sangyo Igaku** 1989 Sep;31(5):372–3 **(Jpn)**

[Simplification of the permissible criteria for impulse noise exposure] Yamamoto T, et al. **Sangyo Igaku** 1990 Jan; 32(1):57–67 **(Jpn)**

[Chemical hypersensitivity] Aas K. **Tidsskr Nor Laegeforen** 1990 Jun 10;110(15):1929–31 **(Nor)**

[Methodologic aspects of studying the effects of ecologic factors on the reproductive system of women] Serov VN, et al. **Akush Ginekol (Mosk)** 1990 Mar;(3):6–9 (32 ref.) **(Rus)**

[Problems of ecological lymphology] Borodin IuI. **Arkh Anat Gistol Embriol** 1989 Jun;96(6):5–14 (Eng. Abstr.) **(Rus)**

[Decrease in repair processes in lymphocytes of workers exposed to heavy metals] Chopikashvili LV, et al. **Genetika** 1989 Dec;25(12):2247–50 (Eng. Abstr.) **(Rus)**

[Methods of chamber exposure of animals to disintegration aerosols] Paran'ko NM, et al. **Gig Sanit** 1990 Apr;(4):48–9 **(Rus)**

[Role of lipids in adaptive responses of the body to extreme exposure] Petrina SN, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):51–3 (Eng. Abstr.) **(Rus)**

[Butyrylcholinesterase activity in agricultural workers in seasons when pesticides are not used] Sirilki J, et al. **Arh Hig Rada Toksikol** 1989 Jun;40(2):215–9 (Eng. Abstr.) **(Scr)**

[Cancer of the urothelium: background and characteristics of the care process related to the prognosis in a series of clinical cases] Villalbí JR, et al. **Actas Urol Esp** 1990 Mar–Apr;14(2):89–91 (Eng. Abstr.) **(Spa)**

ENVIRONMENTAL HEALTH

see related
ACCIDENTS

Safety rounds in public environments: experience of a new tool for prevention of accidental injuries. Bjärås G, et al. **Accid Anal Prev** 1990 Jun;22(3):223–8

July 1990 Consultants Listing. **Am Ind Hyg Assoc J** 1990 Jul;51(7):A513–32

Industrial hygiene's professional future. 1989 Smyth Award lecture. Cralley LJ. **Am Ind Hyg Assoc J** 1990 Jan;51(1):1–4

Environmental medicine: an annotated bibliography of the literature, 1987–1989. Charles J, et al. **Am J Emerg Med** 1990 May;8(3):251–62

The federal environmental health workforce in the United States [see comments] Sexton K, et al. **Am J Public Health** 1990 Aug;80(8):913–20 Comment in: Am J Public Health 1990 Aug;80(8):904–5.

Clinical ecology and the open mind [letter; comment] Harris C. **Ann Intern Med** 1989 Oct 15;111(8):690 Comment on: Ann Intern Med 1989 Jul 15;111(2):104–6.

Toxic agoraphobia [letter; comment] Kurt TL, et al. **Ann Intern Med** 1990 Feb 1;112(3):231–2 Comment on: Ann Intern Med 1989 Jul 15;111(2):104–6.

Multiple chemical hypersensitivities [letter] McLellan RK. **Ann Intern Med** 1989 Dec 1;111(11):953

European Charter on Environment and Health (First European Conference on Environment and Health, Frankfurt, 7–8 December 1989). **Arch Environ Health** 1990 Jul–Aug;45(4):199–201

European countries discuss environmental health [editorial] Grandjean P. **Arch Environ Health** 1990 Jul–Aug;45(4):198

In vivo tibial XFR measurement of bone lead. Wedeen RD. **Arch Environ Health** 1990 Mar–Apr;45(2):69–71 (15 ref.)

Public health aspects of stray dogs in Barrow, Alaska. Dalton LM, et al. **Arctic Med Res** 1988;47 Suppl 1:83–9

Biogeophysical aspects of population health at high latitudes. Deryapa NR. **Arctic Med Res** 1988;47 Suppl 1:79–82 (17 ref.)

Environment, society and health. Quality of life issues in the contemporary north. Freeman MM. **Arctic Med Res** 1988; 47 Suppl 1:53–9 (20 ref.)

Issues in environmental epidemiological research: the example of environmental lead and health. McMichael AJ. **Asia Pac J Public Health** 1989;3(2):150–5

Joint Toxicology Network at the Latin American Regional Level. de Fernicola NA. **Biomed Environ Sci** 1988 Dec; 1(4):431–4

Risk assesement and management models in development. Hart RW, et al. **Biomed Environ Sci** 1988 Jun;1(1):71–8 (5 ref.)

Study on environmental health strategy after earthquake. Lin Y. **Biomed Environ Sci** 1989 Dec;2(4):331–4

Our dirty towns [editorial] Semple AB. **BMJ** 1989 Sep 9; 299(6700):634–5

World Health Day 1990: our planet, our health—think globally, act locally. **Bull Pan Am Health Organ** 1990; 24(2):246–51

Wastewater disposal in the Caribbean: status and strategies. **Bull Pan Am Health Organ** 1990;24(2):252–5

Public health and the global environment [editorial] Last JM. **Can J Public Health** 1990 Jan–Feb;81(1):3–5 **(Eng, Fre)**

Environmental health hazard handling: statistical and strategic concerns. Hilden J. **Clin Genet** 1989 Nov; 36(5):357–63 (10 ref.)

Some public attitudes about health and the environment. Baxter RH. **Environ Health Perspect** 1990 Jun;86:261–9

Metered dose pressurized aerosols and the ozone layer. Newman SP. **Eur Respir J** 1990 May;3(5):495–7 (25 ref.)

Environment and human health [editorial] Seal SC. **Indian J Public Health** 1988 Jul–Sep;32(3):118–9

Clinical ecology: environmental medicine or unsubstantiated theory? Kahn E, et al. **J Allergy Clin Immunol** 1990 Feb; 85(2):437–9

Environmental protection and its trends in developing countries. Bencko V, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):497–504

Training for environmental protection. Porteous A, et al. **J R Soc Health** 1990 Feb;110(1):32–6

Environmental preservation strategies for educators. Lamarine RJ. **J Sch Health** 1990 May;60(5):227–8

Health effects of ozone. Critical review discussion papers. **JAPCA** 1989 Sep;39(9):1185–94

Environmental medicine. **Med Clin North Am** 1990 Mar; 74(2):235–546

Role of the physician in environmental medicine. Goldstein BD, et al. **Med Clin North Am** 1990 Mar;74(2):245–61

Environmental medicine: introduction and overview. Upton AC. **Med Clin North Am** 1990 Mar;74(2):235–44

Michigan doctor encourages children to plant trees, help environment. Campbell R. **Mich Med** 1989 Aug;88(8):21

Physicians need to know more about environmental health risks [editorial] Rowe K. **Mich Med** 1989 Aug;88(8):5

Environmental health faculty in schools of public health. Anderson AC. **Public Health Rep** 1989 Sep–Oct; 104(5):514–7

An estimate of the need for environmental health academicians in the workforce. Anderson AC, et al. **Public Health Rep** 1990 Jul–Aug;105(4):410–4

Environmental quality and sustainable development. Nijpels EH. **Public Health Rev** 1988;16(3–4):257–63

Achievements and perspectives in hygiene occupational medicine and social medicine. Marcu GM. **Sante Publique (Bucur)** 1989 Oct–Dec;32(4):331–9

Imported fire ant as a health hazard. Stafford CT, et al. **South Med J** 1989 Dec;82(12):1515–9

Allergy to imported fire ants. Stafford CT, et al. **South Med J** 1989 Dec;82(12):1520–7 (53 ref.)

Meat inspection [letter] [see comments] Clayden JC. **Vet Rec** 1989 Sep 23;125(13):357 Comment in: Vet Rec 1989 Oct 14;125(16):424–5.

Environmental medicine concepts for farm animal clinicians [editorial] Curtis PE. **Vet Rec** 1990 Jun 30;126(26):645–6

Occupational and environmental illness and the poison center. Litovitz TL, et al. **West J Med** 1990 Feb; 152(2):178–80

Stabilization and prevention—a theoretical framework for environmental hygiene. Haider M. **Zentralbl Hyg Umweltmed** 1989 Dec;189(3):205–13 (14 ref.)

[The role of immunology in monitoring the effects of environmental pollution] Richter J, et al. **Cas Lek Cesk** 1990 Jun 8;129(23):705–8 (Eng. Abstr.) **(Cze)**

[Social pediatrics and ecology] Březina Z. **Cesk Zdrav** 1990 Jan;38(1):30–4 (Eng. Abstr.) **(Cze)**

[Related features in the development of social consciousness in the area of health care and the living environment] Potuček M. **Cesk Zdrav** 1989 Oct;37(10):409–12 (Eng. Abstr.) **(Cze)**

[Action research on the place of work] Vanderschelden M, et al. **Arch Belg** 1989;47(1–4):133–7 **(Fre)**

[Growth, maturation and environment] Hövels O. **Fortschr Kieferorthop** 1990 Apr;51(2):61–9 (36 ref.) (Eng. Abstr.) **(Ger)**

[environmental medicine and public health service] Karbach HH. **Off Gesundheitswes** 1990 Jul;52(7):301–7 (Eng. Abstr.) **(Ger)**

[National Research Program 26. Part A: Physical environment and health] Ackermann-Liebrich U, et al. **Soz Praventivmed** 1990;35(2):40–5 **(Ger, Fre)**

[Research in the national interest. The National Research Program 26 (NFP 26) "Man, Health, Environment"] Gutzwiller F, et al. **Soz Praventivmed** 1990;35(2):37–9 **(Ger, Fre)**

[Environment and health] Ticháček B. **Z Gesamte Hyg** 1990 Mar;36(3):139–40 (Eng. Abstr.) **(Ger)**

[Development of a city planning hygiene analysis and its application in the framework of an environmental-epidemiological study] Winkelmann H, et al. **Z Gesamte Hyg** 1990 Jul;36(7):387–9 (Eng. Abstr.) **(Ger)**

[Research, education and environmental health related to pollution in the Gulf] Paoletti A, et al. **Ann Ig** 1989 May–Aug;1(3–4):495–523 (Eng. Abstr.) **(Ita)**

[Proceedings of the sixtieth annual meeting of the Japanese Society for Hygiene. March 31 to April 2, 1990, Fukuoka.

Abstracts] **Nippon Eiseigaku Zasshi** 1990 Apr;45(1):69–598 (Jpn)

[The dependence of hemoglobin and iron reserve indices on habitat conditions (sampling research in Osh Province, the Kirghiz SSR)] Turobbaev MV, et al. **Gematol Transfuziol** 1989 Nov;34(11):41–6 (Eng. Abstr.) (Rus)

[Psychophysiologic aspects of assessing the effect of physical factors in the environment on the health of the population] Stoian EF. **Gig Sanit** 1990 Feb;(2):12–4 (Rus)

[Cooperation of USSR with World Health Organization in the area of environmental health (review)] Vashkova VV, et al. **Gig Sanit** 1990 Apr;(4):43–5 (Rus)

[An evaluation using an information analysis method of the environmental factors affecting the diphyllobothriasis situation in water reservoirs] Ploshcheva GL, et al. **Med Parazitol (Mosk)** 1989 Jul–Aug;(4):60–3 (Eng. Abstr.) (Rus)

[Human ecology and the problem of health] Agadzhanian NA, et al. **Vestn Akad Med Nauk SSSR** 1989;(9):68–73 (Eng. Abstr.) (Rus)

[Development of scientific research in the area of protection of human health and environment] Pokrovskiĭ VI. **Vestn Akad Med Nauk SSSR** 1989;(9):4–5 (Rus)

[Health and ecological problems connected with development of the North] Sidorenko GI. **Vestn Akad Med Nauk SSSR** 1989;(9):6–11 (Eng. Abstr.) (Rus)

[Medicine and the environment] Levendel L. **Vestn Khir** 1989 Aug;144(8):3–7 (Eng. Abstr.) (Rus)

[The life strategy and self-regulation mechanisms of populations of the causative agents of sapronoses (exemplified by Pseudomonas pseudomallei)] Larionov GM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan;(1):13–7 (Eng. Abstr.) (Rus)

[Are physicians responsible for the environment?] Edhag O. **Lakartidningen** 1990 Apr 4;87(14):1138, 1140 (Swe)

ECONOMICS

[Cost estimation of the negative social and economic consequences of polluting the atmospheric air by the products of burning coal mine tailings] Chernykh OV. **Gig Sanit** 1990 Feb;(2):47–9 (Rus)

HISTORY

Fifty years of progress: 1940–1990. **Am Ind Hyg Assoc J** 1990 Jan;51(1):A13–38

Environmental mutagenesis: an assessment of the past twenty years. Brusick DJ. **Prog Clin Biol Res** 1990;340A:1–16

LEGISLATION & JURISPRUDENCE

Governmental regulation of environmental hazards in the 1990s. Bingham E, et al. **Annu Rev Public Health** 1990; 11:419–34 (51 ref.)

Legislation and environmental health. Kennedy HW. **Arch Environ Health** 1966 Jan;12(1):129–33

Asthma aerosols and CFCs [editorial] Pierce R. **Aust N Z J Med** 1990 Feb;20(1):6–7

Control of substances hazardous to health [editorial] Aw TC. **BMJ** 1989 Oct 14;299(6705):931–2

Assessing environmental health: some problems and strategies. Auer J. **Community Health Stud** 1989;13(4):441–7

Health impact statements: challenges ahead? Edmonds S. **Community Health Stud** 1989;13(4):448–55

Issues related to radon in schools. Probart CK. **J Sch Health** 1989 Dec;59(10):441–3

A permanent US–Mexico border environmental health commission. Council on Scientific Affairs. **JAMA** 1990 Jun 27;263(24):3319–21

Environmental health. Physicians must get involved. **Mich Med** 1990 Jul;89(7):14–24

The right to know: citizen action for the protection of the environment. Ellis HM. **Public Health Rev** 1988; 16(3–4):265–71

[Government behavior in unexplained risks] Merten D. **Off Gesundheitswes** 1990 May;52 Suppl 1:29–33 (Ger)

[The role of the physician in political environmental discussions] Schettler G. **Off Gesundheitswes** 1990 May;52 Suppl 1:7–11 (Ger)

STANDARDS

Standard setting in occupational health: "philosophical" issues. Zielhuis RL, et al. **Am J Ind Med** 1989;16(5):569–98 (75 ref.)

Prevention and health standards: American, Soviet, and European models. Majone G. **J Health Polit Policy Law** 1982 Fall;7(3):629–47

Standards, regulation, and public health. Bingham E. **Med Clin North Am** 1990 Mar;74(2):527–35

[The environment and health. Of the difficulty of reconciling environmental and health standards in cultural nature] Mittelstrass J. **Wien Klin Wochenschr** 1989 Sep 15; 101(17):563–71 (27 ref.) (Eng. Abstr.) (Ger)

[Scientific basis of hygienic evaluation and regulation of physical environmental factors] Shandala MG. **Gig Sanit** 1989 Oct;(10):4–8 (Rus)

[Anthropogenic factors of the environment and the problem of health] Erzinkian KL. **Vestn Akad Med Nauk SSSR** 1989;(8):59–68 (Eng. Abstr.) (Rus)

TRENDS

Industrial hygiene's professional future. 1989 Smyth Award lecture. Cralley LJ. **Am Ind Hyg Assoc J** 1990 Jan;51(1):1–4

Physical and chemical changes in the ambient environment. Kehoe RA. **Arch Environ Health** 1966 Jan;12(1):72–7

Engineering capabilities in environmental control. Silverman L. **Arch Environ Health** 1966 Jan;12(1):120–8

Arctic health research—what—why—how? Albrecht CE. **Arctic Med Res** 1988;47 Suppl 1:24–7

The militarization of Labrador: will research alter the course. Baikie M, et al. **Arctic Med Res** 1988;47 Suppl 1:90–3

Recent changes in methylmercury exposure of the James Bay Cree of Quebec. Dumont C, et al. **Arctic Med Res** 1988; 47 Suppl 1:168–74

Breakup of an isolate. Harvald B. **Arctic Med Res** 1988;47 Suppl 1:41–2

Community profiles/Indian housing in Yukon Territory. Lawrence R, et al. **Arctic Med Res** 1988;47 Suppl 1:149–54

Problems concerning native and migrant populations, their nutrition, the physical environment, ecology and methodology of research. Nikitin YuP. **Arctic Med Res** 1988;47 Suppl 1:38–9

Contribution to the panel on Arctic health research. Schaefer O. **Arctic Med Res** 1988;47 Suppl 1:31–3

Swedish polar research. Theutenberg HE. **Arctic Med Res** 1988;47 Suppl 1:47–9

Environmental health considerations in the Arctic. Waddington JI. **Arctic Med Res** 1988;47 Suppl 1:145–8

Methylmercury in the Canadian Arctic environment past and present—natural or industrial? Wheatley B, et al. **Arctic Med Res** 1988;47 Suppl 1:163–7

Impact of medical genetics on environmental medicine. Beckman L. **Clin Genet** 1989 Nov;36(5):348–56 (30 ref.)

Implications of aquatic animal health for human health. Dawe CJ. **Environ Health Perspect** 1990 Jun;86:245–55 (78 ref.)

Environmental and workplace contamination in the semiconductor industry: implications for future health of the workforce and community. Edelman P. **Environ Health Perspect** 1990 Jun;86:291–5

Influence of food–environment interactions on health in the twenty–first century. Fennema O. **Environ Health Perspect** 1990 Jun;86:229–32

Microelectronics, radiation, and superconductivity. Gochfeld M. **Environ Health Perspect** 1990 Jun;[illegible]:285–9

Agricultural production systems and environmental health. Kinney TB Jr. **Environ Health Perspect** 1990 Jun;86:225–7

Prevention of toxic environmental illness in the twenty–first century. Landrigan PJ. **Environ Health Perspect** 1990 Jun; 86:197–9 (23 ref.)

Food systems: the relationship between health and food science/technology. Levine AS, et al. **Environ Health Perspect** 1990 Jun;86:233–8

Fish health and environmental health. Murchelano RA. **Environ Health Perspect** 1990 Jun;86:257–9

Shelter for the twenty–first century. Spengler JD. **Environ Health Perspect** 1990 Jun;86:281–4

Environmental health. Naidu PR. **Indian J Public Health** 1988 Apr–Jun;32(2):70–81

Basic mechanisms and environmental mutagenesis—a look ahead. Bridges BA. **Prog Clin Biol Res** 1990;340A:17–25

Cellular, biochemical and functional effects of ozone: new research and perspectives on ozone health effects. Wright ES, et al. **Toxicol Lett** 1990 Apr;51(2):125–45; discussion 119–23 (109 ref.)

[Monitoring progress towards health for all in the European region of WHO. III. Life style and physical environment] Taket AR, et al. **Rev Epidemiol Sante Publique** 1990; 38(1):3–18 (Eng. Abstr.) (Fre)

[Contributions of experimental and clinical medicine to environmental medicine] Dobberkau HJ. **Z Gesamte Hyg** 1989 Dec;35(12):734–6 (Eng. Abstr.) (Ger)

[Environmental epidemiologic research as the basis for organizing health inspection] Thielebeule U. **Z Gesamte Hyg** 1989 Dec;35(12):739–41 (Eng. Abstr.) (Ger)

[Human ecology as a part of both socioecology and medicine] Bachinskiĭ GA. **Gig Sanit** 1990 Mar;(3):76–8 (Rus)

[Human ecology: current state and the prospects of its development] Agadzhanian NA. **Vestn Akad Med Nauk SSSR** 1989;(8):4–14 (Eng. Abstr.) (Rus)

[New philosophical thinking and methodologic problems in biology] Boltenkov EM. **Vestn Akad Med Nauk SSSR** 1990; (4):29–32 (Rus)

ENVIRONMENTAL MICROBIOLOGY

The natural occurrence of Histoplasma capsulatum in a cave. I. Epidemiologic aspects. Hasenclever HF, et al. **Am J Epidemiol** 1967 Jul;86(1):238–45

The natural occurrence of Histoplasma capsulatum in a cave. 2. Ecologic aspects. Shacklette MH, et al. **Am J Epidemiol** 1967 Jul;86(1):246–52

Human origin of Bacteroides fragilis bacteriophages present in the environment. Tartera C, et al. **Appl Environ Microbiol** 1989 Oct;55(10):2696–701

Solution hybridization assay for detecting genetically engineered microorganisms in environmental samples. Steffan RT, et al. **Biotechniques** 1990 Mar;8(3):316–8

Survival of gonococci from urethral discharge on fomites [letter] Pérez JL, et al. **Eur J Clin Microbiol Infect Dis** 1990 Jan;9(1):54–5

Microorganisms in nuclear waste disposal. Part I. **Experientia** 1990 Aug 15;46(8):777–851

Effect of ampicillin–induced alterations in murine intestinal microbiota on the survival and competition of environmentally released pseudomonads. George SE, et al. **Fundam Appl Toxicol** 1989 Nov;13(4):670–80

The inanimate environment of an intensive care unit as a potential source of nosocomial bacteria: evidence for long survival of Acinetobacter calcoaceticus. Getchell–White SI, et al. **Infect Control Hosp Epidemiol** 1989 Sep; 10(9):402–7

Legionella pneumophila grows adherent to surfaces in vitro and in situ. Wright JB, et al. **Infect Control Hosp Epidemiol** 1989 Sep;10(9):408–15

Serotype–related antigen of Trichosporon cutaneum in the induction of summer–type hypersensitivity pneumonitis: correlation between serotype of inhalation challenge–positive antigen and that of the isolates from patients' homes. Ando M, et al. **J Allergy Clin Immunol** 1990 Jan;85(1 Pt 1):36–44

Evaluation of hypochlorite–releasing disinfectants against the human immunodeficiency virus (HIV). Bloomfield SF, et al. **J Hosp Infect** 1990 Apr;15(3):273–8

Bacterial contamination and frequency of changing ventilator circuitry. Cadwallader HL, et al. **J Hosp Infect** 1990 Jan; 15(1):65–72

A bacteriological study of the effect on the environment of using a one– or two–trolley system in theatre. Lewis DA, et al. **J Hosp Infect** 1990 Jan;15(1):35–53

The survival of Acinetobacter calcoaceticus inoculated on fingertips and on formica. Musa EK, et al. **J Hosp Infect** 1990 Apr;15(3):219–27

Enumeration and identification of bacteria from environmental samples using nucleic acid probes. Hazen TC, et al. **Microbiol Sci** 1988 Nov;5(11):340–3 (23 ref.)

Removal of viruses in sewage treatment: assessment of feasibility. Lewis D, et al. **Microbiol Sci** 1988 Sep; 5(9):260–4 (25 ref.)

[Listeria monocytogenes: a ubiquitously occurring microorganism] Huisman J. **Ned Tijdschr Geneeskd** 1989 Sep 30;133(39):1917–8 (Dut)

[The breakdown of phthalic acid esters by microorganisms] Samsonova AS, et al. **Biol Nauki** 1990;(1):5–19 (67 ref.) (Eng. Abstr.) (Rus)

[Colicin genotype characteristics of pathogenic Escherichia circulating in the environment] Bel TV. **Gig Sanit** 1989 Sep;(9):26–9 (Eng. Abstr.) (Rus)

[Formation of microbial biocenosis of wheat in a manned spacecraft] Drugova NA, et al. **Kosm Biol Aviakosm Med** 1989 Sep–Oct;23(5):39–43 (Eng. Abstr.) (Rus)

[An improved method of obtaining smears for the detection of Mycobacterium tuberculosis on environmental objects] Zueva MN, et al. **Lab Delo** 1990;(1):50–2 (Eng. Abstr.) (Rus)

[Detection of virulence factors in pathogenic Escherichia isolated from the environment] Kas'ianenko AM, et al. **Mikrobiol Zh** 1986 Nov–Dec;48(6):17–21 (Eng. Abstr.) (Rus)

[Universal media in research on pathologic material and environmental objects. Myth or reality?] Kalina GP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Sep;(9):110–7 (29 ref.) (Rus)

[The life strategy and self–regulation mechanisms of populations of the causative agents of sapronoses (exemplified by Pseudomonas pseudomallei)] Larionov GM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1990 Jan; (1):13–7 (Eng. Abstr.) (Rus)

[Relation between microbiological monitoring and the risk of hospital infection in obstetrical departments] Balić F, et al. **Med Arh** 1989;43(1):31–6 (Eng. Abstr.) (Ser)

[Methicillin–resistant staphylococci. Identification and distribution in the hospital environment] Tomanović B, et al. **Vojnosanit Pregl** 1989 Jul–Aug;46(4):264–7 (Eng. Abstr.) (Ser)

[Strategy of Ascaris lumbricoides and Trichuris trichiura for the environmental contamination, in an endemic area] Morales G, et al. **Mem Inst Oswaldo Cruz** 1989 Apr–Jun; 83(2):229–32 (Eng. Abstr.) (Spa)

ENVIRONMENTAL MONITORING

Monitoring for Listeria monocytogenes in the food supply. Engel RE. **Acta Microbiol Hung** 1989;36(2–3):103–5 (0 ref.)

Re: Biological monitoring [letter] Atherley G. **Am J Ind Med** 1990;17(5):651

Biological monitoring of carbon disulfide. Meuling WJ, et al. **Am J Ind Med** 1990;17(2):247–54

Biological monitoring of nitrous oxide exposure in surgical areas. Trevisan A, et al. **Am J Ind Med** 1990;17(3):357–62

Hazard surveillance in occupational disease. Froines J, et al. **Am J Public Health** 1989 Dec;79 Suppl:26–31

Environmental and biological monitoring for lead exposure in California workplaces [see comments] Rudolph L, et al. **Am J Public Health** 1990 Aug;80(8):921–5 Comment in: Am J Public Health 1990 Aug;80(8):907–8.

Hazard surveillance at NIOSH. Sundin DS, et al. **Am J Public Health** 1989 Dec;79 Suppl:32–7

Monitoring and confirming primary alkylamines via a simple derivatisation procedure. Gaind VS, et al. **Analyst** 1990 Feb;115(2):143–5

Monitoring of urban air pollution by mutagenicity assays. Crebelli R. **Ann Ist Super Sanita** 1989;25(4):591–4
Occupational hygiene aspects of biological monitoring. King E. **Ann Occup Hyg** 1990 Jun;34(3):315–22 (6 ref.)
Proposed international conventions for particle size-selective sampling. Soderholm SC. **Ann Occup Hyg** 1989; 33(3):301–20
Toxicity test procedures for Hyalella azteca, and chronic toxicity of cadmium and pentachlorophenol to H. azteca, Gammarus fasciatus, and Daphnia magna. Borgmann U, et al. **Arch Environ Contam Toxicol** 1989 Sep;18(5):756–64
Comparative sensitivity of sea urchin sperm bioassays to metals and pesticides. Dinnel PA, et al.
Arch Environ Contam Toxicol 1989 Sep;18(5):748–55
DDT contamination of benthic macroinvertebrates and sediments from tributaries of Wheeler Reservoir, Alabama. Webber EC, et al. **Arch Environ Contam Toxicol** 1989 Sep; 18(5):728–33
Hydrogeologic assessment of exposure to solvent-contaminated drinking water: pregnancy outcomes in relation to exposure. Wrensch M, et al.
Arch Environ Health 1990 Jul–Aug;45(4):210–6
Ambient and biological monitoring of cokeoven workers: determinants of the internal dose of polycyclic aromatic hydrocarbons. Jongeneelen FJ, et al. **Br J Ind Med** 1990 Jul;47(7):454–61
Biological monitoring of foundry workers exposed to polycyclic aromatic hydrocarbons. Sherson D, et al.
Br J Ind Med 1990 Jul;47(7):448–53
Metal biomonitoring in bird eggs: a critical experiment. Leonzio C, et al. **Bull Environ Contam Toxicol** 1989 Sep; 43(3):402–6
Calibration of the freshwater mussel, Elliptio complanata, for quantitative biomonitoring of hexachlorobenzene and octachlorostyrene in aquatic systems. Russell RW, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):576–82
A simple method for monitoring mutagenicity of river water. Mutagens in Yodo river system, Kyoto–Osaka. Sakamoto H, et al. **Bull Environ Contam Toxicol** 1990 Apr;44(4):521–8
Environmental exposure to preformed nitroso compounds. Tricker AR, et al. **Cancer Surv** 1989;8(2):251–72 (104 ref.)
Photochemical transformation in aqueous solution and possible environmental fate of ethylenediaminetetraacetic acid (EDTA). Frank R, et al.
Ecotoxicol Environ Safety 1990 Feb;19(1):55–63
Ecotoxicological characterization of industrial wastewater—sulfite pulp mill with bleaching. Källqvist T, et al. **Ecotoxicol Environ Safety** 1989 Dec;18(3):321–36
Estimation of releases into rivers with the steady-state surface water model EXWAT using dichloromethane. Trapp S, et al. **Ecotoxicol Environ Safety** 1990 Feb;19(1):72–80
Occupational chronic exposure to metals. II. Nickel exposure of stainless steel welders—biological monitoring. Angerer J, et al. **Int Arch Occup Environ Health** 1990;62(1):7–10
Identifying ecological indicators: an environmental monitoring and assessment program. Bromberg SM.
J Air Waste Manage Assoc 1990 Jul;40(7):976–8
Fate and toxicity of temephos applied to an intertidal mangrove community. Pierce RH, et al.
J Am Mosq Control Assoc 1989 Dec;5(4):569–78
Measurements of surface contamination of spray equipment with pesticides after various methods of application. Yoshida K, et al. **J Environ Sci Health [B]** 1990 Apr; 25(2):169–83
A bacteriological study of the effect on the environment of using a one- or two-trolley system in theatre. Lewis DA, et al. **J Hosp Infect** 1990 Jan;15(1):35–53
On the job because that's where hazards are [news] Cowart VS. **JAMA** 1990 May 16;263(19):2599–600
Genetic toxicology testing and biomonitoring of environmental or occupational exposure. **Mutat Res** 1989 Oct;224(2):135–318
Intensity of solar ultraviolet radiation and its implications for skin cancer. McKenzie RL, et al. **N Z Med J** 1990 Apr 11;103(887):152–4
Rediscovering respect for nature: an imperative for ecological policy and sustainable development. Hoyte HD.
Nutr Health 1990;6(4):165–71
Biomonitoring of individuals occupationally exposed to aromatic amines. Ribeiro LR, et al. **Prog Clin Biol Res** 1990;340C:387–96
Comparison of hair with nail as index media for biological monitoring of mercury. Suzuki T, et al. **Sangyo Igaku** 1989 Jul;31(4):235–8
Environmental prophylaxis as one of the main factors in cancer control. Korczak CW. **Sante Publique (Bucur)** 1989 Jul–Sep;32(3):231–3
Heavy metal contents of paddy fields of Alcácer do Sal, Portugal. Fernandes JC, et al. **Sci Total Environ** 1990 Jan; 90:89–97
Effects of cadmium on a microbial food chain, Chlamydomonas reinhardii and Tetrahymena vorax. Lawrence SG, et al. **Sci Total Environ** 1989 Nov; 87–88:381–95
Whole lake addition of cadmium–109: radiotracer accumulation in the mussel population in the first season. Malley DF, et al. **Sci Total Environ** 1989 Nov; 87–88:397–417
Mercury concentrations in inland waters of gold–mining areas in Rondônia, Brazil. Pfeiffer WC, et al.
Sci Total Environ 1989 Nov;87–88:233–40
Trace metals in a littoral foodweb: concentrations in organisms, sediment and water. Timmerman KR, et al. **Sci Total Environ** 1989 Nov;87–88:477–94
Development and application of biomarkers exploitable for human exposure monitoring. De Flora S.
Teratogenesis Carcinog Mutagen 1990;10(3):211–4 (29 ref.)
Biological monitoring—consider the alternatives. Legator MS. **Teratogenesis Carcinog Mutagen** 1990;10(3):209–10 (4 ref.)
International symposium on strategies for the control of mutagenic and carcinogenic risk: current status and perspectives, Friday, May 5, 1989, Bologna. Sobels FH. **Teratogenesis Carcinog Mutagen** 1990;10(3):239–45
Cytogenetic surveillance of workers exposed to genotoxic chemicals: preliminary experiences from a prospective cancer study in a cytogenetic cohort. Sorsa M, et al.
Teratogenesis Carcinog Mutagen 1990;10(3):215–21 (13 ref.)
Biochemical epidemiology: uses in the study of human carcinogenesis. Vineis P, et al.
Teratogenesis Carcinog Mutagen 1990;10(3):231–7 (15 ref.)
Specification of metals and metal compounds: implications for biological monitoring and development of regulatory approaches. Grant LD, et al. **Toxicol Ind Health** 1989 Oct; 5(5):891–908 (47 ref.)
[environmental medicine and public health service] Karbach HH. **Off Gesundheitswes** 1990 Jul;52(7):301–7 (Eng. Abstr.) **(Ger)**
[Assessment of exposure at the work site by biological monitoring] Jost M. **Ther Umsch** 1989 Nov;46(11):780–5 (12 ref.) (Eng. Abstr.) **(Ger)**
[Occupational medicine limit values for hazardous materials in the Federal Republic of Germany] Lehnert G.
Z Gesamte Hyg 1989;35(8):477–80 (Eng. Abstr.) **(Ger)**
[The monitoring of air pollution in a hospital environment using quantitative air biology methods] Agolli B, et al.
Lijec Vjesn 1990 Jan–Feb;112(1–2):17–21 (Eng. Abstr.) **(Scr)**

ECONOMICS

Inexpensive temperature monitor for heated humidifiers. Doyle DJ. **J Clin Monit** 1990 Jan;6(1):57–8

INSTRUMENTATION

An evaluation of the effect of source and concentration on three methods for the measurement of formaldehyde in indoor air. Beck SW, et al. **Am Ind Hyg Assoc J** 1990 Jan; 51(1):14–21; discussion 22
Comparison of three sampling and analytical methods for measuring m-xylene in expired air of exposed humans. Glaser RA, et al. **Am Ind Hyg Assoc J** 1990 Mar; 51(3):139–50
Evaluation of the GMD systems, Inc., thermally-desorbable diffusional dosimeter for monitoring methyl chloride. Hahne RM. **Am Ind Hyg Assoc J** 1990 Feb;51(2):96–101
Contaminant breakthrough: a theoretical study of charcoal sampling tubes. Yoon YH, et al. **Am Ind Hyg Assoc J** 1990 Jun;51(6):319–25
Selective real-time measurement of styrene vapor using a surface-acoustic-wave sensor with a regenerable organoplatinum coating. Zellers ET, et al. **Anal Chem** 1990 Jul 1;62(13):1227–32
A cordless infrared headphone system for monitoring heart and breath sounds [letter] Moretti EA, et al.
Anesth Analg 1990 Sep;71(3):309
Evaluation of a diffusive sampler for formaldehyde. Ellwood PA, et al. **Ann Occup Hyg** 1990 Jun;34(3):305–13
The use of dust-collecting cassettes in dust samplers. Mark D. **Ann Occup Hyg** 1990 Jun;34(3):281–91
Performance testing of the OSIRIS dust monitoring system. Roebuck B, et al. **Ann Occup Hyg** 1990 Jun;34(3):263–79
Entry characteristics of practical workplace aerosol samplers in relation to the ISO recommendations. Vincent JH, et al. **Ann Occup Hyg** 1990 Jun;34(3):249–62
Personal monitoring sampler for acetone vapor exposure. Uchida Y, et al. **Bull Environ Contam Toxicol** 1990 Jun; 44(6):900–4
Test atmospheres of diisocyanates with special reference to controlled exposure of humans. Brorson T, et al.
Int Arch Occup Environ Health 1989;61(8):495–501
Development of a new exposure monitoring system considering pulmonary ventilation (DEM 1). Satoh T, et al. **Keio J Med** 1989 Dec;38(4):432–42
A social tethering system for nonhuman primates used in laboratory research. Coelho AM Jr, et al.
Lab Anim Sci 1990 Jul;40(4):388–94
Pesticide application equipment for vector control. Twelfth report of the WHO Expert Committee on Vector Biology and Control. **WHO Tech Rep Ser** 1990;791:1–58
[Collection efficiency of 2 analytical methods for atmospheric sulfur dioxide (thorin and TCM–PRA)] de la Serna J, et al. **Rev Sanid Hig Publica (Madr)** 1988 Sep–Dec; 62(9–12):1667–76 (Eng. Abstr.) **(Spa)**

LEGISLATION & JURISPRUDENCE

Regulation of nickel exposure in Denmark. Menné T, et al.
Contact Dermatitis 1990 Jul;23(1):57–8
[Evaluating health effects—a preventive medicine responsibility of public health offices. Summary of a workshop presentation by the public health services at the Travemünde federal congress 1989] Wodarg W.
Off Gesundheitswes 1989 Nov;51(11):692–7 (Eng. Abstr.) **(Ger)**
[Concepts of a preventive environmental policy] Malinsky AH. **Pneumologie** 1990 Jul;44(7):868–70 (Eng. Abstr.) **(Ger)**
[European Economic Community and environmental protection (review of the literature)] Lifliand LM.
Gig Sanit 1990 Mar;(3):61–5 (20 ref.) **(Rus)**

METHODS

Determination of 3,5,6–trichloro–2–pyridinol levels in the urine of termite control workers using chlorpyrifos. Jitsunari F, et al. **Acta Med Okayama** 1989 Oct; 43(5):299–306
Electrostatic effects in asbestos sampling. I: Experimental measurements. Baron PA, et al. **Am Ind Hyg Assoc J** 1990 Feb;51(2):51–62 (36 ref.)
Electrostatic effects in asbestos sampling. II: Comparison of theory and experiment. Baron PA, et al.
Am Ind Hyg Assoc J 1990 Feb;51(2):63–9
Biological monitoring for workers exposed to 4,4'–methylenebis(2–chloroaniline). Ichikawa Y, et al.
Am Ind Hyg Assoc J 1990 Jan;51(1):5–7
Estimating long–term exposure levels in process–type industries using production rates. Kalliokoski P.
Am Ind Hyg Assoc J 1990 Jun;51(6):310–2
Endotoxin measurement: aerosol sampling and application of a new Limulus method. Milton DK, et al.
Am Ind Hyg Assoc J 1990 Jun;51(6):331–7
Measurement of organic vapors at sub–TLV concentrations using fast gas chromatography. Mouradian RF, et al.
Am Ind Hyg Assoc J 1990 Feb;51(2):90–5
Multicellular model for contaminant dispersion and ventilation effectiveness with application for oxygen deficiency in a confined space [published erratum appears in Am Ind Hyg Assoc J 1990 May;51(5):296] Park CH, et al. **Am Ind Hyg Assoc J** 1990 Feb;51(2):70–8
Biological monitoring of arsenic exposure of gallium arsenide– and inorganic arsenic–exposed workers by determination of inorganic arsenic and its metabolites in urine and hair. Yamauchi H, et al.
Am Ind Hyg Assoc J 1989 Nov;50(11):606–12
A surveillance system for assessing health effects from hazardous exposures. Hardy RJ, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S32–42
A personal monitoring study to assess workplace exposure to environmental tobacco smoke. Coultas DB, et al.
Am J Public Health 1990 Aug;80(8):988–90
Evaluating the impact of municipal water fluoridation on the aquatic environment. Osterman JW.
Am J Public Health 1990 Oct;80(10):1230–5
Human biomonitoring in exposure to environmental genotoxicants. Sorsa M, et al. **Basic Life Sci** 1990;52:79–86 (14 ref.)
Accumulation of organic air constituents by plant surfaces. Spruce needles for monitoring airborne chlorinated hydrocarbons. Reischl A, et al. **Biomed Environ Sci** 1988 Oct;1(3):304–7
Environmental and biological monitoring of exposure to ethylenebisdithiocarbamate fungicides and ethylenethiourea. Kurttio P, et al. **Br J Ind Med** 1990 Mar; 47(3):203–6
Detection of genotoxicants in a polluted watercourse by means of a yeast system. Moretton J, et al.
Bull Environ Contam Toxicol 1990 Jul;45(1):25–30
A follow–up study of lead absorption in cows as an indicator of environmental lead pollution. Prpić–Majić D, et al.
Bull Environ Contam Toxicol 1990 Jul;45(1):19–24
Evaluation of pollutant toxicity in aquatic environment by assay of enzymes released from lysosomes. Tabata M, et al. **Bull Environ Contam Toxicol** 1990 Jul;45(1):31–8
The use of biological markers in toxicology. Henderson RF, et al. **Crit Rev Toxicol** 1989;20(2):65–82 (97 ref.)
Organic micropollutants in lakes: a sedimentological approach. Galassi S, et al. **Ecotoxicol Environ Safety** 1990 Apr;19(2):150–9
Monitoring of persistent, lipophilic pollutants in water and sediment by solvent-filled dialysis membranes. Södergren A. **Ecotoxicol Environ Safety** 1990 Apr;19(2):143–9
Headspace determination of evolved carbon dioxide in a biodegradability screening test. Struijs J, et al.
Ecotoxicol Environ Safety 1990 Apr;19(2):204–11
Ecotoxicological evaluation of soil quality criteria. van Straalen NM, et al. **Ecotoxicol Environ Safety** 1989 Dec; 18(3):241–51 (21 ref.)
Freshwater fish cytochrome P450–dependent enzymatic activities: a chemical pollution indicator. Vindimian E, et al. **Ecotoxicol Environ Safety** 1989 Dec;18(3):277–85
Biological monitoring and our water resources. Gruber D.
Endeavour 1989;13(3):135–40 (7 ref.)
Use of longitudinal analysis of peripheral blood counts to validate historical reconstructions of benzene exposure. Kipen HM, et al. **Environ Health Perspect** 1989 Jul; 82:199–206
Urine mutagenicity and biochemical parameters as markers of exposure to petroleum pitch using a rat model. Pasquini R, et al. **Environ Mol Mutagen** 1990;15(1):56–66
Fiber exposure reassessed with the new indices. Schneider T, et al. **Environ Res** 1990 Feb;51(1):108–16
Estimating equivalent human concentrations of no observed adverse effect levels: a comparison of several methods. Overton JH, et al. **Exp Pathol** 1989;37(1–4):?9–94
Biomonitoring after controlled exposure to environmental tobacco smoke (ETS). Scherer G, et al. **Exp Pathol** 1989;

37(1–4):158–63
Lysosomal cytochemistry in marine environmental monitoring. Moore MN. **Histochem J** 1990 Apr; 22(4):187–91 (18 ref.)
Biological exposure monitoring of methyl bromide workers by determination of hemoglobin adducts. Iwasaki K, et al. **Ind Health** 1989;27(4):181–3
Zeroing in on the appropriate management of occupational exposures to HIV-1 [editorial] Henderson DK. **Infect Control Hosp Epidemiol** 1990 Apr;11(4):175–7
Urinary excretion of unmetabolized acetone as an indicator of occupational exposure to acetone. Kawai T, et al. **Int Arch Occup Environ Health** 1990;62(2):165–9
Biological monitoring of exposure to monochlorobenzene. Kusters E, et al. **Int Arch Occup Environ Health** 1990; 62(4):329–31
Sister chromatid exchanges in peripheral lymphocytes of workers exposed to benzene, trichloroethylene, or tetrachloroethylene, with reference to smoking habits. Seiji K, et al. **Int Arch Occup Environ Health** 1990;62(2):171–6
Toxicokinetics of cobalt and the problems of biological monitoring. Roshchin AV, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4):369–77
Detection of Legionella with polymerase chain reaction and gene probe methods. Mahbubani MH, et al. **Mol Cell Probes** 1990 Jun;4(3):175–87
Exposure level monitor of a carcinogenic glutamic acid pyrolysis product in rabbits. Yin Y, et al. **Mutat Res** 1989 Nov;215(1):107–13
Monitoring radon-decay products challenges health, safety experts. Moeller DW. **Occup Health Saf** 1990 May; 59(5):64–6
Regulations, employee concerns spur air monitoring of work-place hazards. Rekus JF. **Occup Health Saf** 1990 May;59(5):71–6
Oncogene proteins as molecular epidemiologic markers of cancer risk in hazardous waste workers. Brandt-Rauf P. **Occup Med** 1990 Jan–Mar;5(1):59–65 (45 ref.)
Medical surveillance of hazardous waste site workers exposed to polychlorinated biphenyls (PCBs). Chase KH, et al. **Occup Med** 1990 Jan–Mar;5(1):33–7 (45 ref.)
Investigations and activities at superfund sites. Gochfeld M, et al. **Occup Med** 1990 Jan–Mar;5(1):127–42 (2 ref.)
Evaluating the liver in hazardous waste workers. Hodgson MJ, et al. **Occup Med** 1990 Jan–Mar;5(1):67–78 (38 ref.)
Cytogenetic techniques for biological monitoring. Kelsey KT. **Occup Med** 1990 Jan–Mar;5(1):39–47 (41 ref.)
DNA adducts as markers of exposure in hazardous waste workers. McDiarmid MA, et al. **Occup Med** 1990 Jan–Mar; 5(1):49–58 (39 ref.)
Protocol for the comprehensive evaluation of building-associated illness. Quinlan P, et al. **Occup Med** 1989 Oct–Dec;4(4):771–97 (14 ref.)
An overview of environmental mutagenesis in China. Hsueh JL, et al. **Prog Clin Biol Res** 1990;340E:285–306
Tradescantia-micronucleus test on clastogens and in situ monitoring. Ma TH. **Prog Clin Biol Res** 1990;340E:83–90 (44 ref.)
Environmental mutagenesis and related research in developing countries. Notani NK. **Prog Clin Biol Res** 1990; 340E:267–73 (22 ref.)
Environmental mutagenesis in Thailand. Rojanapo W. **Prog Clin Biol Res** 1990;340E:275–84 (21 ref.)
In situ detection of genotoxicity—possibilities and measurements. Sharma CB. **Prog Clin Biol Res** 1990; 340E:67–76
Thermal desorption of organic solvent from activated carbon for determination of vapor concentration in work environment. Hori H, et al. **Sangyo Ika Daigaku Zasshi** 1989 Dec 1;11(4):347–60
Use of Polytrichum formosum (moss) as a passive biomonitor for heavy metal pollution (cadmium, copper, lead and zinc). Markert B, et al. **Sci Total Environ** 1989 Oct 15; 86(3):289–94
Biological monitoring for occupational cadmium exposure: the urinary metallothionein. Shaikh ZA, et al. **Toxicology** 1990 Jul;63(1):53–62
Surveillance of environmental disease: the Wisconsin initiative. Anderson HA, et al. **Wis Med J** 1990 Mar; 89(3):120, 122, 124
[Biological monitoring at the work site] Winker N. **Pneumologie** 1990 Jul;44(7):875–9 (Eng. Abstr.) (Ger)
[Contributions of experimental and clinical medicine to environmental medicine] Dobberkau HJ. **Z Gesamte Hyg** 1989 Dec;35(12):734–6 (Eng. Abstr.) (Ger)
[Environmental epidemiologic research as the basis for organizing health inspection] Thielebeule U. **Z Gesamte Hyg** 1989 Dec;35(12):739–41 (Eng. Abstr.) (Ger)
[The AMES test in environmental and occupational medicine] Clonfero E, et al. **Med Lav** 1990 Jan–Feb; 81(1):3–10 (78 ref.) (Eng. Abstr.) (Ita)
[Pathology caused by microdoses of chemical substances] Foà V, et al. **Med Lav** 1990 Jan–Feb;81(1):11–21 (21 ref.) (Eng. Abstr.) (Ita)
[A portable sampler for oil mist in machine workshops] Kira S, et al. **Sangyo Igaku** 1989 Jul;31(4):246–7 (Jpn)
[Assessment of occupational exposures to industrial hazardous substances. III. On the frequency distribution of daily exposure averages (8-h TWA)] Kumagai S, et al. **Sangyo Igaku** 1989 Jul;31(4):216–26 (Eng. Abstr.) (Jpn)
[Assessment of occupational exposures to industrial hazardous substances. IV. A proposed method based on one-sided tolerance limits] Matsunaga I, et al. **Sangyo Igaku** 1989 Jul;31(4):227–34 (Eng. Abstr.) (Jpn)
[Methodologic aspects of studying the effects of ecologic factors on the reproductive system of women] Serov VN, et al. **Akush Ginekol (Mosk)** 1990 Mar;(3):6–9 (32 ref.) (Rus)
[Sanitary and hygienic aspects of ecology] Aleksandrov VN. **Gig Sanit** 1990 May;(5):94–6 (Rus)
[Radiation-hygienic complex of monitoring the handling of sources of ionizing radiation] Kozlov AA, et al. **Gig Sanit** 1989 Sep;(9):21–3 (Rus)
[Radio-ecological control of environmental objects in the vicinity of the "Kozloduĭ" atomic energy power station] Markelova VF, et al. **Gig Sanit** 1990 Mar;(3):65–70 (Rus)
[Methodologic and methodical problems of hygiene in cardiologic studies] Stolbyn BM. **Gig Sanit** 1989 Dec; (12):47–50 (Rus)
[Demonstration of Escherichia coli phages in the seashore zone and the use of this index in microbiological monitoring] Kovaleva NV, et al. **Mikrobiol Zh** 1985 May–Jun;47(3):88–91 (Eng. Abstr.) (Rus)

STANDARDS

Standard setting in occupational health: "philosophical" issues. Zielhuis RL, et al. **Am J Ind Med** 1989;16(5):569–98 (75 ref.)
Did monitoring standards influence outcome? [letter; comment] From RP, et al. **Anesthesiology** 1989 Nov; 71(5):808–10 Comment on: Anesthesiology 1989 Apr;70(4):572–7.
The application of performance standards to personal airborne dust samplers. Kenny LC, et al. **Ann Occup Hyg** 1989;33(3):289–300
Extremely low-frequency electric and magnetic fields and risk of human cancer. Ad Hoc Working Group. **Bioelectromagnetics** 1990;11(1):91–9 (17 ref.)
The COMPLY computer program for demonstrating compliance with national radionuclide air emission standards. Colli A, et al. **Health Phys** 1990 Apr;58(4):411–6
Operational aspects of bioreactor contamination control. Perkowski CA. **J Parenter Sci Technol** 1990 May–Jun; 44(3):113–7
Protection from asbestos exposure includes personal and area monitoring. Quinn JF, et al. **Occup Health Saf** 1990 Feb; 59(2):27–31
Biological monitoring of hazardous waste workers: metals. Gochfeld M. **Occup Med** 1990 Jan–Mar;5(1):25–31 (15 ref.)
The role of air monitoring techniques in hazardous waste site personnel protection and surveillance strategies. Levine SP. **Occup Med** 1990 Jan–Mar;5(1):109–16 (31 ref.)
Atmospheric chemistry of propellant vapors. Stone DA. **Toxicol Lett** 1989 Dec;49(2–3):349–60
[Standardization of environmental electromagnetic fields generated by meteorological radars] Nikitina NG, et al. **Gig Sanit** 1989 Oct;(10):48–50 (Eng. Abstr.) (Rus)
[Concepts of the study of the effect of pesticides on human health] Pol'chenko VI. **Gig Sanit** 1989 Dec;(12):72–3 (Rus)

STATISTICS & NUMERICAL DATA

Occupational exposures to styrene in Denmark 1955–88. Jensen AA, et al. **Am J Ind Med** 1990;17(5):593–606
Power analysis and practical strategies for environmental monitoring. Green RH. **Environ Res** 1989 Oct; 50(1):195–205 (30 ref.)

ENVIRONMENTAL POLLUTANTS

Environment and human health [editorial] Seal SC. **Indian J Public Health** 1988 Jul–Sep;32(3):118–9
Will Medical Waste Tracking Act clean up environment? [editorial] Allen TW. **J Am Osteopath Assoc** 1989 Oct; 89(10):1277–8
Quinolones in the environment [letter; comment] **Lancet** 1989 Dec 2;2(8675):1339 Comment on: Lancet 1989 Oct 28;2(8670):1040.
Disease-causing effects of environmental chemicals. Hogan MD, et al. **Med Clin North Am** 1990 Mar;74(2):461–73
Dangerous chemicals [letter; comment] Bayer E. **Nature** 1989 Dec 21–28;342(6252):849 Comment on: Nature 1989 Sep 28;341(6240):276.
Public concern about chemicals in the environment: regional differences based on threat potential. Howe HL. **Public Health Rep** 1990 Mar–Apr;105(2):186–95
Organic and inorganic components in estuarine colloids: implications for sorption and transport of pollutants. Sigleo AC, et al. **Rev Environ Contam Toxicol** 1990;112:123–47 (84 ref.)
Abstracts of papers presented at the workshop of the Deutsche Gesellschaft für Hygiene und Mikrobiologie, Section Hygiene and Public Health. Kiel, 28–30 September 1988. **Zentralbl Hyg Umweltmed** 1989 Sep;188(6):487–525
[Threshold values for chemicals to prevent disease] Schweinsberg F. **Zentralbl Hyg Umweltmed** 1990 May; 190(1–2):207–16 (21 ref.) (Eng. Abstr.) (Ger)
[Comparative hygienic characteristics of surface-active agents as a factor of environmental pollution (review)] Mudryĭ IV. **Gig Sanit** 1990 Jan;(1):60–4 (55 ref.) (Rus)
[Various characteristics of the action of chemical substances on general adaptability of the body] Kustov VV. **Gig Tr Prof Zabol** 1990;(5):40–4 (Eng. Abstr.) (Rus)
[Improvement in standardization of hazardous substances] Shepelin OP. **Gig Tr Prof Zabol** 1990;(5):31–3 (Eng. Abstr.) (Rus)

ADVERSE EFFECTS

Chronic lymphocytic leukemia in relation to chemical exposures. Malone KE, et al. **Am J Epidemiol** 1989 Dec; 130(6):1152–8
Allergic to life: psychological factors in environmental illness. Simon GE, et al. **Am J Psychiatry** 1990 Jul; 147(7):901–6
Is the human nervous system most sensitive to environmental toxins? [editorial] Kilburn KH. **Arch Environ Health** 1989 Nov–Dec;44(6):343–4
The environment and cancer: putting the risks into perspective [comment] Garfinkel L. **CA** 1990 Sep–Oct; 40(5):261–4 Comment on: CA 1990 Sep–Oct;40(5):265–75. Comment on: CA 1990 Sep–Oct;40(5):277–88.
Environmental pollutants as co-factors in IgE production. Holt PG. **Curr Opin Immunol** 1989 Apr;1(4):643–6 (13 ref.)
Biologically motivated models for chemical risk assessment. Clewell HJ 3d, et al. **Health Phys** 1989;57 Suppl 1:129–37
Inhalation reference dose (RfDi): an application of interspecies dosimetry modeling for risk assessment of insoluble particles. Jarabek AM, et al. **Health Phys** 1989; 57 Suppl 1:177–83
The quest for interaction: studies on combined exposure. van Dormolen M, et al. **Int Arch Occup Environ Health** 1990; 62(4):279–87 (83 ref.)
Personality styles of patients asserting environmental illness. Rosenberg SJ, et al. **J Occup Med** 1990 Aug;32(8):678–81
Neuropsychophysiology during relaxation in generalized, universal 'allergic' reactivity to the environment: a comparison study. Staudenmayer H, et al. **J Psychosom Res** 1990;34(3):259–70
Congenital cleft deformities in Rivers state of Nigeria: is there any association with environmental pollution? Datubo-Brown DD, et al. **J R Coll Surg Edinb** 1989 Dec; 34(6):328–31
Mortality from duck plague virus in immunosuppressed adult mallard ducks. Goldberg DR, et al. **J Wildl Dis** 1990 Jul; 26(3):299–306
Environmentally related diseases of the urinary tract. Goyer RA. **Med Clin North Am** 1990 Mar;74(2):377–89 (45 ref.)
Environmental challenges reduce eosinophils, produce symptoms [letter; comment] Settler R. **Nurse Pract** 1990 Feb;15(2):7, 10 Comment on: Nurse Pract 1989 Sep;14(9):17–8, 28, 30 passim.
In situ detection of genotoxicity—possibilities and measurements. Sharma CB. **Prog Clin Biol Res** 1990; 340E:67–76
Humoral immunity alterations after environmental asbestos exposure. Zerva LV, et al. **Respiration** 1989;55(4):237–41
[Vinyl and dioxin—PVC (letter)] Carlsen AC, et al. **Ugeskr Laeger** 1990 Jul 23;152(30):2186–7 (Dan)
[Correlation of the toxic effects of the environment and the genetic information of the individual] Roser M, et al. **Internist (Berl)** 1989 Sep;30(9):587–95 (50 ref.) (Ger)
[Aluminum toxicity] Henning HV. **Klin Wochenschr** 1989 Dec 15;67(24):1221–8 (101 ref.) (Eng. Abstr.) (Ger)
[Evaluating health effects—a preventive medicine responsibility of public health offices. Summary of a workshop presentation by the public health services at the Travemünde federal congress 1989] Wodarg W. **Off Gesundheitswes** 1989 Nov;51(11):692–7 (Eng. Abstr.) (Ger)
[Pathology caused by microdoses of chemical substances] Foà V, et al. **Med Lav** 1990 Jan–Feb;81(1):11–21 (21 ref.) (Eng. Abstr.) (Ita)
[The concept of the MPEL: pro and con] Stepanov AM. **Biol Nauki** 1989;(9):61–8 (Eng. Abstr.) (Rus)
[The effect of environmental factors on the lung cancer morbidity of the population of large cities in the USSR] Zemlianaia GM, et al. **Eksp Onkol** 1990;12(2):26–9 (Eng. Abstr.) (Rus)
[Anthropogenic acid-base imbalance in the environment and its hygienic aspects] Ko'lkovski P. **Gig Sanit** 1989 Jun; (6):56–8 (Rus)
[Ecological changes and human heredity] Bochkov NP, et al. **Klin Med (Mosk)** 1990 May;68(5):25–32 (30 ref.) (Rus)
[Standard pathologic processes in the action of chemical environmental factors] Ivanov VV. **Patol Fiziol Eksp Ter** 1989 Nov–Dec;(6):8–11 (15 ref.) (Rus)
[Analysis of correlations of the incidence of stomach cancer and anthropogenic factors of environmental pollution] Kovaleva NS, et al. **Sov Med** 1989;(10):58–62 (Rus)
[Theoretical bases of the epidemiology of diseases caused by noninfectious factors] Votiakov VI, et al. **Vestn Akad Med Nauk SSSR** 1990;(5):47–52 (Eng. Abstr.) (Rus)

ANALYSIS

Environmental and biological monitoring for lead exposure in California workplaces [see comments] Rudolph L, et al. **Am J Public Health** 1990 Aug;80(8):921–5 Comment in: Am J Public Health 1990 Aug;80(8):907–8.

Extraction, separation and spectrophotometric determination of cadmium and mercury using triphenylphosphine oxide and its application to environmental samples. Raman B, et al. **Analyst** 1990 Jan;115(1):93–8

Heavy metals: sources and environmental presence. Ziemacki G, et al. **Ann Ist Super Sanita** 1989;25(3):531–5

Environmental applications of organic mass spectrometry in China. Xu XB, et al. **Biomed Environ Sci** 1988 Oct; 1(3):253–69 (36 ref.)

Lead pollution in urban and rural Saudi Arabian children. Ahmed M, et al. **Bull Environ Contam Toxicol** 1989 Nov; 43(5):660–6

High levels of PCBs in breast milk of Inuit women from arctic Quebec. Dewailly E, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):641–6

Heavy metal and organochlorine compound concentrations in tissues of raccoons from east-central Michigan. Herbert GB, et al. **Bull Environ Contam Toxicol** 1990 Feb; 44(2):331–8

Environmental contamination of chromium in agricultural and animal products near a chromate industry. Khasim DI, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):742–6

Distribution and residue level of mercury, cadmium and lead in Korean birds. Lee DP, et al. **Bull Environ Contam Toxicol** 1989 Oct;43(4):550–5

Heavy metal contamination in the river toad, Bufo juxtasper (Inger), near a copper mine in East Malaysia. Lee YH, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):272–9

Metal biomonitoring in bird eggs: a critical experiment. Leonzio C, et al. **Bull Environ Contam Toxicol** 1989 Sep; 43(3):402–6

Determination of melamine and three hydrolytic products by liquid chromatography. Sugita T, et al. **Bull Environ Contam Toxicol** 1990 Apr;44(4):567–71

Sources of dioxins and furans in British Columbia. Rottluff W, et al. **Can J Public Health** 1990 Mar–Apr;81(2):94–100

Major sources of benzene exposure. Wallace LA. **Environ Health Perspect** 1989 Jul;82:165–9

A proposed multi-detector method for prompt 90Sr detection in post-accident environmental matrices. Brini D, et al. **Health Phys** 1990 Mar;58(3):329–39

Fate and toxicity of temephos applied to an intertidal mangrove community. Pierce RH, et al. **J Am Mosq Control Assoc** 1989 Dec;5(4):569–78

Enzymatic hydrolysis of biological and environmental samples as pretreatment for analysis. Forsyth DS, et al. **J Assoc Off Anal Chem** 1989 Nov–Dec;72(6):997–1001

Biological parameter of environmental pollution. Köck M. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):557–60

Environmental health hazards. The statistics are staggering. Mack DA. **Mich Med** 1989 Aug;88(8):14–5

Protocol for the comprehensive evaluation of building-associated illness. Quinlan P, et al. **Occup Med** 1989 Oct–Dec;4(4):771–97 (14 ref.)

Environmental fate of alachlor and metolachlor. Chesters G, et al. **Rev Environ Contam Toxicol** 1989;110:1–74 (165 ref.)

Heavy metal levels in the near vicinity to roads in a north London Borough. Harrop DO, et al. **Sci Total Environ** 1990 Apr;93:543–6

An integrated budget for selected pollutants for a major rural highway. Hewitt CN, et al. **Sci Total Environ** 1990 Apr; 93:375–84

The transport of heavy metals within a small urban catchment. Revitt DM, et al. **Sci Total Environ** 1990 Apr; 93:359–73

[Population exposure to pollutants—selected examples from Schleswig-Holstein] Heinzow B, et al. **Off Gesundheitswes** 1989 Aug–Sep;51(8–9):404–8 (Eng. Abstr.) (Ger)

[Evaluating the intake of heavy metals] Auermann E, et al. **Z Gesamte Hyg** 1989 Dec;35(12):744–5 (Eng. Abstr.) (Ger)

[The damaged environment. Heart and lung changes] Somogyi E. **Morphol Igazsagugyi Orv Sz** 1990 Jan; 30(1):61–8 (Eng. Abstr.) (Hun)

[Blood, teeth and hair: 3 different materials used to evaluate exposure to lead and cadmium in children living in an industrial zone] Bergomi M, et al. **Ann Ig** 1989 Sep–Oct; 1(5):1185–96 (Eng. Abstr.) (Ita)

[Determination of calculated time costs in the study of residual quantities of toxic chemicals using thin-layer chromatography] Belotserkovskaia LI. **Gig Sanit** 1990 Apr; (4):83–5 (Rus)

[European Economic Community and environmental protection (review of the literature)] Lifliand LM. **Gig Sanit** 1990 Mar;(3):61–5 (20 ref.) (Rus)

[Lead in bio-substrates of industrial city inhabitants] Revich BA. **Gig Sanit** 1990 Apr;(4):28–33 (Eng. Abstr.) (Rus)

[Methods of the determination of triamelon in environmental objects] Suvalova EA, et al. **Gig Sanit** 1990 Apr;(4):86–9 (Rus)

[A rapid method for the study of specific radioactivity of environmental objects] Voronin KV, et al. **Gig Sanit** 1989 Jul;(7):40–2 (Rus)

BLOOD

Blood lead levels in children living in three communities, at different risks of lead pollution. Abbritti G, et al. **Biomed Environ Sci** 1988 Dec;1(4):363–71

Polychlorinated biphenyls in human blood samples of Bombay. Rao CV, et al. **Bull Environ Contam Toxicol** 1989 Nov;43(5):656–9

HISTORY

[Legislation regarding safety in the work environment and the handling of toxic substances in the 19th century and the beginning of the 20th century] Piasek G, et al. **Arh Hig Rada Toksikol** 1990 Mar;41(1):57–64 (Eng. Abstr.) (Ser)

METABOLISM

Half-life of polychlorinated biphenyls in occupationally exposed workers. Phillips DL, et al. **Arch Environ Health** 1989 Nov–Dec;44(6):351–4

Content of some heavy metal ions in various developmental stages of the social wasp, Dolichovespula saxonica (Fabr.) (Hymenoptera, Vespidae). Kowalczyk JK, et al. **Bull Environ Contam Toxicol** 1989 Sep;43(3):415–20

Distribution and excretion of 1,8-dinitro[14C]pyrene in the mouse. Shah AB, et al. **Toxicol Lett** 1990 May;51(3):303–13

PHARMACOKINETICS

Cellular cadmium distribution in the common winkle, Littorina littorea (L.) determined by X-ray microprobe analysis and histochemistry. Marigómez JA, et al. **Histochemistry** 1990;94(2):191–9

Toxicokinetics of chlorinated hydrocarbons. Marth E, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):514–20

Relative distribution of 2,3,7,8-tetrachlorodibenzo-p-dioxin in human hepatic and adipose tissues. Leung HW, et al. **Toxicol Lett** 1990 Feb;50(2–3):275–82

POISONING

An investigation of the effects of cadmium exposure on human health. Han C. **Biomed Environ Sci** 1988 Oct; 1(3):323–31

Ecological toxicology and human health effects of heptachlor. Fendick EA, et al. **Rev Environ Contam Toxicol** 1990;111:61–142 (450 ref.)

Ethylene glycol (antifreeze) poisoning in a free-ranging polar bear. Amstrup SC, et al. **Vet Hum Toxicol** 1989 Aug; 31(4):317–9

Professional education for evaluating environmental exposure. Young MR, et al. **Wis Med J** 1990 Aug; 89(8):471–2, 474

[Methods of toxicologic evaluation—possibilities and limits] Strubelt O. **Off Gesundheitswes** 1990 Jun;52(6):254–9 (7 ref.) (Eng. Abstr.) (Ger)

[Conditioned-reflex methods for the study of neurotoxic effects of environmental factors] Tairov OP, et al. **Gig Sanit** 1989 Jul;(7):42–5 (36 ref.) (Rus)

TOXICITY

Chronic toxicity and bioaccumulation of 2,5,2',5'- and 3,4,3',4'-tetrachlorobiphenyl and Aroclor 1242 in the amphipod Hyalella azteca. Borgmann U, et al. **Arch Environ Contam Toxicol** 1990 Jul–Aug;19(4):558–64

Effect of environmental toxicants on enzyme biosynthesis: a comparison of beta-galactosidase, alpha-glucosidase and tryptophanase. Dutton RJ, et al. **Arch Environ Contam Toxicol** 1990 May–Jun;19(3):395–8

Evaluation of a 14-day static renewal toxicity test with Daphnia magna straus. Gersich FM, et al. **Arch Environ Contam Toxicol** 1990 Jan–Feb;19(1):72–6

The induction of alkoxyresorufin metabolism: a potential indicator of environmental contamination. Lubet RA, et al. **Arch Environ Contam Toxicol** 1990 Mar–Apr; 19(2):157–63

Field evaluation of predictions of environmental effects from a multispecies-microcosm toxicity test. Niederlehner BR, et al. **Arch Environ Contam Toxicol** 1990 Jan–Feb; 19(1):62–71

Abstracts of papers presented at the International Meeting on the Toxicity of Drugs and Other Chemicals. July 29–August 2, 1986, Beijing, China. **Biomed Environ Sci** 1988 Aug;1(2):222–34

Effects of the environmental pollutants on heme oxygenase activity and cytochrome P-450 content in fish. Ariyoshi T, et al. **Bull Environ Contam Toxicol** 1990 Feb; 44(2):189–96

Behavioral changes in Gammarus pulex and its significance in the toxicity assessment of very low levels of environmental pollutants. Borlakoglu JT, et al. **Bull Environ Contam Toxicol** 1990 Aug;45(2):258–65

Preliminary investigation of protein utilization by an aquatic earthworm in response to sublethal stress. Keilty TJ, et al. **Bull Environ Contam Toxicol** 1989 Sep;43(3):350–4

Responses of the hepatopancreatic 'B' cells of a terrestrial isopod, Oniscus asellus, to metals accumulated from a contaminated habitat: a morphometric analysis. Morgan AJ, et al. **Bull Environ Contam Toxicol** 1990 Mar; 44(3):363–8

Influence of the carcinogenic pollutant benzo[a]pyrene on plant development: fern gametophytes. Forrest V, et al. **Chem Biol Interact** 1989;72(3):295–307

Nitrosamines as potential environmental carcinogens in man. Lin JK. **Clin Biochem** 1990 Feb;23(1):67–71 (32 ref.)

Transfer of persistent chemicals in milk. Gallenberg LA, et al. **Drug Metab Rev** 1989;21(2):277–317 (156 ref.)

Environmental and health risks of hydroquinone. Devillers J, et al. **Ecotoxicol Environ Safety** 1990 Jun;19(3):327–54 (182 ref.)

Chemical mutagenesis testing in Drosophila. VII. Results of 22 coded compounds tested in larval feeding experiments. Zimmering S, et al. **Environ Mol Mutagen** 1989; 14(4):245–51

The olfactory system and Alzheimer's disease. Ferreyra-Moyano H, et al. **Int J Neurosci** 1989 Dec; 49(3–4):157–97 (286 ref.)

Neurospecific translation control and the problem of potent danger of drugs and chemicals: a caution. Kuznetsov DA. **Int J Neurosci** 1989 Nov;49(1–2):1–42 (123 ref.)

Toxicological assessment of chlorinated diphenyl ethers in the rat. Chu I, et al. **J Environ Sci Health [B]** 1989 Oct; 24(5):493–508

Accumulation of heavy metals in animals. Part 1: Lead and cadmium contamination in some wild animals. Köck M, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):521–8

Accumulation of heavy metals in animals. Part 3: Heavy metal contamination in small mammals at a waste disposal site. Köck M, et al. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):536–41

Plasma concentrations of 15-keto-13,14-dihydro-PGF-2 alpha, oestrone sulphate, oestradiol-17 beta and progesterone in pregnant guinea-pigs treated with polychlorinated biphenyls. Lundkvist U, et al. **J Reprod Fertil** 1989 Sep;87(1):55–62

Sister-chromatid exchanges in 52 Korean women living in the vicinity of an industrial complex. Shim JS, et al. **Mutat Res** 1989 Dec;224(4):511–5

Cytogenetic investigation in lymphocytes of people living in cadmium-polluted areas. Tang XM, et al. **Mutat Res** 1990 Jul;241(3):243–9

Evidence for etiologic heterogeneity in Alzheimer's disease. Bird TD, et al. **Neurobiol Aging** 1989 Sep–Oct;10(5):432–4; discussion 446–8

Genetics and Alzheimer's disease: notes of an environment watcher (with apologies to L. Thomas). Perl DP. **Neurobiol Aging** 1989 Sep–Oct;10(5):444–6; discussion 446–8

Health risk assessment of environmental exposure to trichloroethylene. Brown LP, et al. **Regul Toxicol Pharmacol** 1990 Feb;11(1):24–41 (66 ref.)

Guidelines for the definition of environmental action alert thresholds for polychlorodibenzodioxins and polychlorodibenzofurans. di Domenico A. **Regul Toxicol Pharmacol** 1990 Feb;11(1):8–23

Health risk assessment of environmental exposure to 1,1,1-trichloroethane. Verschuuren HG, et al. **Regul Toxicol Pharmacol** 1990 Feb;11(1):90–9 (43 ref.)

Lewisite: its chemistry, toxicology, and biological effects. Goldman M, et al. **Rev Environ Contam Toxicol** 1989; 110:75–115 (158 ref.)

The further development of a mammalian DNA alkaline unwinding bioassay with potential application to hazard identification for contaminants from environmental samples. Daniel FB, et al. **Toxicol Ind Health** 1989 Oct; 5(5):647–65

Risk assessment initiatives for noncancer endpoints: implications for risk characterization of chemical mixtures. DeRosa CT, et al. **Toxicol Ind Health** 1989 Oct;5(5):805–24 (16 ref.)

Evaluating comparative potencies: developing approaches to risk assessment of chemical mixtures. Schoeny RS, et al. **Toxicol Ind Health** 1989 Oct;5(5):825–37 (16 ref.)

Toxicological evaluation of complex industrial wastes: implications for exposure assessment. DeMarini DM, et al. **Toxicol Lett** 1989 Dec;49(2–3):199–214

Cellular, biochemical and functional effects of ozone: new research and perspectives on ozone health effects. Wright ES, et al. **Toxicol Lett** 1990 Apr;51(2):125–45; discussion 119–23 (109 ref.)

Toxicology of chemical mixtures: experimental approaches, underlying concepts, and some results. Yang RS, et al. **Toxicol Lett** 1989 Dec;49(2–3):183–97 (18 ref.)

The effects of lindane and linuron on calcium metabolism, bone morphometry and the kidney in rats. Andrews JE, et al. **Toxicology** 1990 Jan–Feb;60(1–2):99–107

[Work, chemical agents and offspring] Zielhuis RL, et al. **Ned Tijdschr Geneeskd** 1990 Jul 21;134(29):1395–8 (15 ref.) (Dut)

[Interactions between toxicology and ecotoxicology] Lafontaine A. **Arch Belg** 1988;46(9–10):455–60 (Fre)

[The mutagenicity of organic microcontaminants in the environment. IV. The mutagenicity of volatile organic halogens in the SOS-chromotest] Mersch-Sundermann V, et al. **Zentralbl Hyg Umweltmed** 1989 Dec;189(3):266–71 (Eng. Abstr.) (Ger)

[Thresholds of toxic action of chemical compounds and their statistical assessment] Nosov VN. **Biol Nauki** 1989; (8):105–11 (Eng. Abstr.) (Rus)

[Characteristics of the carcinogenic effect of benzo(a)pyrene after its combined intake and the problems of its standardization in the environment] Chernichenko IA. **Gig Sanit** 1989 Dec;(12):6–9 (Eng. Abstr.) (Rus)

[Determining the values of threshold levels of the effects of harmful substances] Novikov SM, et al. **Gig Sanit** 1989 Sep;(9):46–9 (Rus)

[Methodologic approach to predicting the health status of

the population in relation to environmental factors] Osipian VA, et al. **Gig Sanit** 1989 Dec;(12):43–7 **(Rus)**

[Concepts of the study of the effect of pesticides on human health] Pol'chenko VI. **Gig Sanit** 1989 Dec;(12):72–3 **(Rus)**

[Current prerequisites for the development of algorithms for common hygienic standardization of combined effects of environmental factors] Svatkov VI. **Gig Sanit** 1989 Nov; (11):46–52 (96 ref.) **(Rus)**

[Problem of determining and calculating unified statistical criteria of toxic effects] Svatkov VI. **Gig Sanit** 1989 Dec; (12):74–6 **(Rus)**

[Problem of hygienic terminology of harmful biological factors] Tsapko VG, et al. **Gig Sanit** 1989 Jun;(6):59–60 **(Rus)**

[Cesium-137 in the biosphere] Vasilenko IIa. **Gig Sanit** 1989 Jul;(7):55–8 (22 ref.) **(Rus)**

[Protection of health of children and adolescents in relation to the use of pesticides in national economy (review of the literature)] Zolotnikova GP. **Gig Sanit** 1990 May; (5):59–62 **(Rus)**

[Problems related to regulation of toxic substances] Kurliandskiĭ BA. **Gig Tr Prof Zabol** 1989;(9):9–12 (Eng. Abstr.) **(Rus)**

[An analysis of the micronuclei in the oral mucosa for assessing the cytogenetic effect of environmental pollutants] ArutiunianRM, et al. **Tsitol Genet** 1990 Mar–Apr;24(2):57–60 (Eng. Abstr.) **(Rus)**

[Salmonella typhimurium strains used in the study of environmental mutagens] Tanirbergenov TB, et al. **Tsitol Genet** 1989 Nov–Dec;23(6):47–56 (48 ref.) **(Rus)**

ENVIRONMENTAL POLLUTION

Sensitization to aeroallergens depends on environmental factors. Popp W, et al. **Allergy** 1989 Nov;44(8):572–5

Environmental health considerations in the Arctic. Waddington JI. **Arctic Med Res** 1988;47 Suppl 1:145–8

Chemical industry: toward harmony with the environment. Knüsli E. **Biomed Environ Sci** 1988 Jun;1(1):34–41

Aerosol inhalers. Newman SP. **BMJ** 1990 May 19; 300(6735):1286–7 (4 ref.)

Third World aid [letter] de Veber LL. **Can Med Assoc J** 1989 Dec 15;141(12):1225

What can we learn from Exxon Valdez? [editorial] Linden O. **Environ Res** 1990 Apr;51(2):117–9

Metered dose pressurized aerosols and the ozone layer. Newman SP. **Eur Respir J** 1990 May;3(5):495–7 (25 ref.)

Severe lead intoxication in a family caused by use of residential premises for battery manufacturing. Singh S, et al. **Indian Pediatr** 1989 Jul;26(7):718–20

Pollution by fluorine compounds. Horner JM. **J R Soc Health** 1989 Aug;109(4):147–50 (53 ref.)

Pollution as Czech public enemy number one [news] Dickman S. **Nature** 1990 Mar 8;344(6262):91

Guidance on the preparation of summaries of data on chemicals in food, consumer products and the environment submitted to DHSS. **Rep Health Soc Subj (Lond)** 1986; 30:1–16

Environmental assessment of MMT fuel additive. Lynam DR, et al. **Sci Total Environ** 1990 Apr;93:107–14

Health problems in Galena, Kansas: a heavy metal mining Superfund site. Neuberger JS, et al. **Sci Total Environ** 1990 May 15;94(3):261–72

Transfer of radionuclides to animals—an historical perspective of work done in the United States. Richmond CR. **Sci Total Environ** 1989 Sep;85:1–15 (37 ref.)

European research on the transfer of radionuclides to animals—a historical perspective. van den Hoek J. **Sci Total Environ** 1989 Sep;85:17–27 (32 ref.)

Phosphorus fertilizer production as a source of rare-earth elements pollution of the environment. Volokh AA, et al. **Sci Total Environ** 1990 Jun;95:141–8

Oil spill health effects [letter; comment] Rall DP. **Science** 1989 Nov 3;246(4930):564 Comment on: Science 1989 Aug 4;245(4917):463.

Psychotoxicology: the return of the mad hatter. Dumont MP. **Soc Sci Med** 1989;29(9):1077–82 (29 ref.)

[The role of immunology in monitoring the effects of environmental pollution] Richter J, et al. **Cas Lek Cesk** 1990 Jun 8;129(23):705–8 (Eng. Abstr.) **(Cze)**

[Bacterial resistance as a bioindicator of environmental pollution] Thriene B. **Cesk Epidemiol Mikrobiol Imunol** 1990 Jan;39(1):39–42 (Eng. Abstr.) **(Cze)**

[Protection of the mineral spring areas in western Bohemia] Klír S. **Zdrav Aktual** 1982;198:3–139 **(Cze)**

[The mutagenicity of organic microcontamination in the environment. III. The mutagenicity of selected herbicides and insecticides in the SOS chromotest] Mersch-Sundermann V, et al. **Zentralbl Hyg Umweltmed** 1989 Nov;189(2):135–46 (Eng. Abstr.) **(Ger)**

[Bismuth—an environmental pollutant of the future] Mueller RL. **Zentralbl Hyg Umweltmed** 1989 Nov;189(2):117–24 (Eng. Abstr.) **(Ger)**

[The damaged environment. Heart and lung changes] Somogyi E. **Morphol Igazsagugyi Orv Sz** 1990 Jan; 30(1):61–8 (Eng. Abstr.) **(Hun)**

[Various problems of environmental hygiene in Hungary (letter)] György L. **Orv Hetil** 1989 Sep 17;130(38):2068 **(Hun)**

[Progress and new environmental emergencies: the earth at the limits of survival?] Melino C. **Clin Ter** 1990 Apr 30; 133(2):67–86 (Eng. Abstr.) **(Ita)**

[Proceedings of the sixtieth annual meeting of the Japanese Society for Hygiene. March 31 to April 2, 1990, Fukuoka. Abstracts] **Nippon Eiseigaku Zasshi** 1990 Apr;45(1):69–598 **(Jpn)**

[Individual fluctuation in urinary excretion of low molecular weight proteins in inhabitants of a cadmium-polluted area] Iwata K, et al. **Sangyo Igaku** 1989 Nov;31(6):436–7 **(Jpn)**

[Chemical pollution of the environment in the Extreme North] Shitskova AP. **Sov Med** 1990;(4):39–42 **(Rus)**

ADVERSE EFFECTS

Clinical, chemical, and hematological parameters in cattle kept in a cadmium-contaminated area. Kessels BG, et al. **Bull Environ Contam Toxicol** 1990 Feb;44(2):339–44

Influence of industrial pollutants on thyroid function in Channa punctatus (Bloch). Bhattacharya T, et al. **Indian J Exp Biol** 1989 Jan;27(1):65–8

Total human exposure: basic concepts, EPA field studies, and future research needs. Ott WR. **J Air Waste Manage Assoc** 1990 Jul;40(7):966–75 (74 ref.)

Detecting hidden relations between time series of mortality rates. Helfenstein U. **Methods Inf Med** 1990 Jan;29(1):57–60

Environmental dangers. Fabrizio T. **Nord Med** 1989; 104(10):264–5, 268

A new approach to deriving community exposure guidelines from "no-observed-adverse-effect levels". Lewis SC, et al. **Regul Toxicol Pharmacol** 1990 Jun;11(3):314–30 (38 ref.)

Guadalupe corridor transportation project asbestos health risk assessment, San Jose, California. Steiner WE, et al. **Sci Total Environ** 1990 Apr;93:115–24

Is there a connection between pollution and birth defects? [letter] Gold WS. **Tex Med** 1990 Jan;86(1):10

First generation of a new science: risk assessment in transition. Stara JF. **Toxicol Ind Health** 1989 Oct;5(5):621–7 (16 ref.)

[Clinical environmental medicine. An examination of a case load from a 2-year project] Jacobsen P, et al. **Ugeskr Laeger** 1990 Jun 18;152(25):1817–9 (Eng. Abstr.) **(Dan)**

[Chronic respiratory tract diseases—environmentally or occupationally-induced] Magnussen H. **Off Gesundheitswes** 1989 Aug–Sep;51(8–9):500–4 (42 ref.) (Eng. Abstr.) **(Ger)**

[Methodological approaches to the evaluation of the effects of environmental pollution on morbidity of the population] Borokhov DZ, et al. **Sov Zdravookhr** 1990;(5):23–7 (Eng. Abstr.) **(Rus)**

[Anthropogenic factors of the environment and the problem of health] Erzinkian KL. **Vestn Akad Med Nauk SSSR** 1989;(8):59–68 (Eng. Abstr.) **(Rus)**

[Socio-hygienic aspects of the study and evaluation of morbidity and physical development under conditions of scientific and technological progress] Maksimova TM, et al. **Vestn Akad Med Nauk SSSR** 1989;(8):53–9 (Eng. Abstr.) **(Rus)**

[Health status of children from industrial cities with different regional geochemical structures] Revich BA, et al. **Vestn Akad Med Nauk SSSR** 1989;(8):14–8 (Eng. Abstr.) **(Rus)**

[Nutrition and health in relation to ecology] Sharmanov TSh. **Vestn Akad Med Nauk SSSR** 1989;(8):27–30 (Eng. Abstr.) **(Rus)**

ANALYSIS

Recent changes in methylmercury exposure of the James Bay Cree of Quebec. Dumont C, et al. **Arctic Med Res** 1988; 47 Suppl 1:168–74

Methylmercury in the Canadian Arctic environment past and present—natural or industrial? Wheatley B, et al. **Arctic Med Res** 1988;47 Suppl 1:163–7

Use of hair as an indicator of environmental lead pollution in women of child-bearing age in Karachi, Pakistan and Bangladesh. Jamall IS, et al. **Bull Environ Contam Toxicol** 1990 Mar;44(3):350–6

Radionuclides in effluent from coal mines, a coal-fired power plant, and a phosphate processing plant in Zasavje, Slovenia (Yugoslavia). Kobal I, et al. **Health Phys** 1990 Jan; 58(1):81–5

Identifying ecological indicators: an environmental monitoring and assessment program. Bromberg SM. **J Air Waste Manage Assoc** 1990 Jul;40(7):976–8

'In the ballpark' not good enough [news] Cotton P. **JAMA** 1990 May 16;263(19):2597, 2599

Small-scale field test of the genetically engineered lacZY marker. Hattemer-Frey HA, et al. **Regul Toxicol Pharmacol** 1990 Jun;11(3):253–61

Guidelines for the testing of chemicals for mutagenicity. Committee on Mutagenicity of Chemicals in Food, Consumer Products and the Environment. **Rep Health Soc Subj (Lond)** 1989;35:1–99

Environmental chemistry of ethylene dibromide in soil and ground water. Pignatello JJ, et al. **Rev Environ Contam Toxicol** 1990;112:1–47 (129 ref.)

Use of Polytrichum formosum (moss) as a passive biomonitor for heavy metal pollution (cadmium, copper, lead and zinc). Markert B, et al. **Sci Total Environ** 1989 Oct 15; 86(3):289–94

The measurement of soiling. Terrat MN, et al. **Sci Total Environ** 1990 Apr;93:131–8

Lead contamination of the London Orbital (M25) Motorway (since its opening in 1986). Ward NI. **Sci Total Environ** 1990 Apr;93:277–83

[Surveillance of health status in an agrarian environment: proposal for a method. 2. Environmental data] Villa P, et al. **Ann Ig** 1989 Sep–Oct;1(5):1001–14 (Eng. Abstr.) **(Ita)**

HISTORY

[Environmental history as an anthropologic topic. Contribution to "chemical anthropology"] Grupe G. **Anthropol Anz** 1990 Jun;48(2):113–24 (Eng. Abstr.) **(Ger)**

[The history of the Bamberg glass factory. An example for medicine and environmental protection in the early 19th century] Wiesing U. **Sudhoffs Arch** 1989;73(2):200–7 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Governmental regulation of environmental hazards in the 1990s. Bingham E, et al. **Annu Rev Public Health** 1990; 11:419–34 (51 ref.)

A permanent US-Mexico border environmental health commission. Council on Scientific Affairs. **JAMA** 1990 Jun 27;263(24):3319–21

The superfund remedial action decision process: a review of fifty records of decision. Doty CB, et al. **JAPCA** 1989 Dec;39(12):1535–43

New proposals for medical waste management in Pennsylvania. McMillin BS, et al. **Pa Med** 1989 Sep; 92(9):42–8

Risk assessment for carcinogens under California's Proposition 65. Pease WS, et al. **Risk Anal** 1990 Jun; 10(2):255–71

Chromium and regulation: bits and pieces. Beall JR. **Sci Total Environ** 1989 Oct 1;86(1–2):187–90

The asbestos removal fiasco [editorial] Abelson PH. **Science** 1990 Mar 2;247(4946):1017

[Government behavior in unexplained risks] Merten D. **Off Gesundheitswes** 1990 May;52 Suppl 1:29–33 **(Ger)**

[Concepts of a preventive environmental policy] Malinsky AH. **Pneumologie** 1990 Jul;44(7):868–70 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Chlorofluorocarbons in medicinals. Anderson PO. **Am J Hosp Pharm** 1990 Jun;47(6):1382–5

Re-thinking how public interest organizations defend public health through pollution control in the United States. McCloskey M. **Am J Ind Med** 1990;17(6):755–60

Medical responsibility and global environmental change. McCally M, et al. **Ann Intern Med** 1990 Sep 15; 113(6):467–73 (44 ref.)

Toxic substances control in the 1990s: are we poisoning ourselves with low-level exposures? Lave LB, et al. **Annu Rev Public Health** 1990;11:69–87 (62 ref.)

Pollution potential reduction of cheese whey through yeast fermentation. Ghaly AE, et al. **Appl Biochem Biotechnol** 1989 Nov;22(2):181–203

Legislation and environmental health. Kennedy HW. **Arch Environ Health** 1966 Jan;12(1):129–33

Environmental health considerations in the Arctic. Waddington JI. **Arctic Med Res** 1988;47 Suppl 1:145–8

Prediction of environmental fate and effects of heteroatomic polycyclic aromatics by QSARs: the position of n-octanol/water partition coefficients. de Voogt P, et al. **Biomed Environ Sci** 1988 Aug;1(2):194–209

Low level radioactive waste: an environmentalist's response. Osborne D. **Bull N Y Acad Med** 1989 Apr–May;65(4):522–6

Physicians and the ecologic crisis [letter] **Can Med Assoc J** 1989 Dec 15;141(12):1224

Environmental health. Naidu PR. **Indian J Public Health** 1988 Apr–Jun;32(2):70–81

Public reaction to toxic waste contamination: analysis of a social movement. Masterson-Allen S, et al. **Int J Health Serv** 1990;20(3):485–500

Scientific progress vs environmental safety—a morality play for the next century. Nicholls AC. **J Assoc Off Anal Chem** 1990 Jan–Feb;73(1):12–3

Hygiene control in standard waste disposal works. Köck M. **J Hyg Epidemiol Microbiol Immunol** 1989;33(4 Suppl):561–7

The greenhouse effect and human population [editorial] Banks BE, et al. **J R Soc Med** 1990 May;83(5):284

Colloquia on radiation, arms race, chemical and biological warfare. Watts TE, et al. **Med War** 1990 Jan–Mar;6(1):12–9

Britain releases green bill [news] Aldhous P. **Nature** 1990 Jan 4;343(6253):4

Dangerous chemicals [letter; comment] Bayer E. **Nature** 1989 Dec 21–28;342(6252):849 Comment on: Nature 1989 Sep 28;341(6240):276.

Aren't we all green now? [news] Maddox J. **Nature** 1990 Jan 4;343(6253):15

Gaining control of the allergic child's environment. Kemp JP, et al. **Pediatr Ann** 1989 Dec;18(12):801–4, 806–9 (50 ref.)

Environmental prophylaxis as one of the main factors in cancer control. Korczak CW. **Sante Publique (Bucur)** 1989 Jul–Sep;32(3):231–3

Priority one: rescue the environment [editorial] Koshland DE

Jr. Science 1990 Feb 16;247(4944):777

Stabilization and prevention—a theoretical framework for environmental hygiene. Haider M.
Zentralbl Hyg Umweltmed 1989 Dec;189(3):205–13 (14 ref.)

[Prevention of mercury vapor contamination resulting from scraps of silver amalgam and the remainder of mercury] Yu WY. Chung Hua Kou Chiang Hsueh Tsa Chih 1989 Jul; 24(4):218–20, 255 (Eng. Abstr.) (Chi)

[Pollution and human exposure: proposal of criteria for meeting the WHO recommendations in the matter of risk reduction related to the environment] Steenhout A, et al. Arch Belg 1989;47(1–4):90–2 (Eng. Abstr.) (Fre)

[Reports by the Commission for the Quality of Nutrition and the Environment] Bull Mem Acad R Med Belg 1990; 145(1–2):126–31 (Fre)

[Population exposure to pollutants—selected examples from Schleswig–Holstein] Heinzow B, et al.
Off Gesundheitswes 1989 Aug–Sep;51(8–9):404–8 (Eng. Abstr.) (Ger)

[The role of the physician in political environmental discussions] Schettler G. Off Gesundheitswes 1990 May;52 Suppl 1:7–11 (Ger)

[Conclusions of the special colloquium "Methods of Risk Assessment"] Valentin H. Off Gesundheitswes 1990 May; 52 Suppl 1:34–6 (Ger)

[The environment and health. Of the difficulty of reconciling environmental and health standards in cultural nature] Mittelstrass J. Wien Klin Wochenschr 1989 Sep 15; 101(17):563–71 (27 ref.) (Eng. Abstr.) (Ger)

[Contributions of experimental and clinical medicine to environmental medicine] Dobberkau HJ.
Z Gesamte Hyg 1989 Dec;35(12):734–6 (Eng. Abstr.) (Ger)

[Wild domestic pigeons—a public health problem of increasing significance in East Germany] Schuster W, et al. Z Gesamte Hyg 1989 Sep;35(9):514–8 (42 ref.) (Eng. Abstr.) (Ger)

[Environmental epidemiologic research as the basis for organizing health inspection] Thielebeule U.
Z Gesamte Hyg 1989 Dec;35(12):739–41 (Eng. Abstr.) (Ger)

[Pollution and alternative energy sources] Melino C.
Ann Ig 1989 Jan–Apr;1(1–2):87–108 (19 ref.) (Eng. Abstr.) (Ita)

[Environmental protection is a matter of common concern] Antibiot Khimioter 1989 Jun;34(6):403–4 (Rus)

[Sanitary and hygienic aspects of ecology] Aleksandrov VN. Gig Sanit 1990 May;(5):94–6 (Rus)

[Hygienic problems of protection of the environment and health of the population in villages of the Golodnoĭ steppe] Faĭziev KhT. Gig Sanit 1989 Jul;(7):63–5 (Rus)

[Phyto-amelioration of the natural environment as a means for lowering anthropogenic load] Khramova SI.
Gig Sanit 1989 Dec;(12):88–9 (Rus)

[European Economic Community and environmental protection (review of the literature)] Lifland LM.
Gig Sanit 1990 Mar;(3):61–5 (20 ref.) (Rus)

[Radio-ecological control of environmental objects in the vicinity of the "Kozlodui" atomic energy power station] Markelova VF, et al. Gig Sanit 1990 Mar;(3):65–70 (Rus)

[Pesticide regulating technologies—a means of protecting the health of workers and the population] Spynu EI, et al. Gig Tr Prof Zabol 1990;(6):3–10 (Rus)

[Activities of a district sanitary-epidemiologic station of a large city in providing ecological welfare] Lysyĭ AE. Sov Zdravookhr 1989;(7):34–5 (Rus)

[Human ecology: current state and the prospects of its development] Agadzhanian NA.
Vestn Akad Med Nauk SSSR 1989;(8):4–14 (Eng. Abstr.) (Rus)

[Are physicians responsible for the environment?] Edhag O.
Lakartidningen 1990 Apr 4;87(14):1138, 1140 (Swe)

STATISTICS & NUMERICAL DATA

A probabilistic statement of the structure activity relationship for environmental risk analysis. Shirazi MA, et al.
Arch Environ Contam Toxicol 1990 Jul–Aug;19(4):597–602

ENVIRONMENTAL POLLUTION, TOBACCO SMOKE see **TOBACCO SMOKE POLLUTION**

ENZYME ACTIVATION

Enzyme amplified immunoassays. Bates DL.
Ann Biol Clin (Paris) 1989;47(9):527–32

Kinetic analysis of regeneration by dilution of a covalently modified protein. Rakitzis ET. Biochem J 1990 Jun 15; 268(3):669–70

Purified Drosophila transcription factor, Adh distal factor-1 (Adf-1), binds to sites in several Drosophila promoters and activates transcription. England BP, et al. J Biol Chem 1990 Mar 25;265(9):5086–94

Controls of citrate synthase activity. Srere PA. Life Sci 1974 Nov 15;15(10):1695–710 (51 ref.)

Evidence that protein kinase C activation is essential for killing by IL-2-activated lymphocytes. Kvanta A, et al. Scand J Immunol 1990 Jan;31(1):103–8

Esterification and transesterification: effect of the reaction on enzyme activity [letter; comment] Goldberg M.
Trends Biochem Sci 1989 Nov;14(11):442 Comment on: Trends Biochem Sci 1989 Apr;14(4):125–6.

[Morphological picture of lesions to substantia nigra of rats following intracardial administration of quinolinic acid] Markiewicz D, et al. Pol Tyg Lek 1989 Apr 10; 44(10–11):262–4 (Eng. Abstr.) (Pol)

DRUG EFFECTS

Calcitonin gene related peptide (CGRP) activates adenylate cyclase of bovine aortic endothelial cells: guanosine 5' triphosphate dependence and partial agonist activity of a tyrosinated analogue. McEwan JR, et al.
Cardiovasc Res 1989 Nov;23(11):921–7

A novel magnesium–dependent mechanism for the activation of transducin by fluoride. Antonny B, et al. FEBS Lett 1990 Jul 30;268(1):277–80

Dephosphorylation and activation of the T cell tyrosine kinase pp56lck by the leukocyte common antigen (CD45). Mustelin T, et al. Oncogene 1990 Jun;5(6):809–13

PHYSIOLOGY

The principle of determining relative enzyme activities by comparative kinetic microphotometry in situ. Pette D, et al. Histochem J 1989 Sep–Oct;21(9–10):531–4 (22 ref.)

Cytophotometric analysis of enzyme reaction rates in tissue sections [editorial] Van Noorden CJ. Histochem J 1989 Sep–Oct;21(9–10):515–6

Covalent modification of proteins as a threshold mechanism in development. Goldbeter A, et al. J Theor Biol 1990 Jan 23;142(2):243–50

ENZYME IMMUNOASSAY see **IMMUNOENZYME TECHNICS**

ENZYME INDUCTION

Mechanisms of induction of enzymes that protect against chemical carcinogenesis. Talalay P. Adv Enzyme Regul 1989;28:237–50 (49 ref.)

Inducible cytosolic enzyme activity for the production of nitrogen oxides from L-arginine in hepatocytes. Billiar TR, et al. Biochem Biophys Res Commun 1990 May 16; 168(3):1034–40

Pyridoxal 5'-phosphate dependent histidine decarboxylase: overproduction, purification, biosynthesis of soluble site-directed mutant proteins, and replacement of conserved residues. Vaaler GL, et al. Biochemistry 1989 Sep 5;28(18):7306–13

Enzyme induction by eating charcoal-grilled steak with no effect on blood lipids. Heller RF, et al.
Clin Exp Pharmacol Physiol 1989 Oct;16(10):783–8

Limited bidirectional activity of two housekeeping gene promoters: human HPRT and PGK. Johnson P, et al.
Gene 1990 Apr 16;88(2):207–13

Regulation of human glutathione S-transferase pi gene transcription: influence of 5'-flanking sequences and trans-activating factors which recognize AP-1-binding sites. Morrow CS, et al. Gene 1990 Apr 16;88(2):215–25

The murine aromatic hydrocarbon responsiveness locus: a comparison of receptor levels and several inducible enzyme activities among recombinant inbred lines. Bigelow SW, et al. J Biochem Toxicol 1986 Mar;1(1):1–14

DNA damage induction of ribonucleotide reductase. Elledge SJ, et al. Mol Cell Biol 1989 Nov;9(11):4932–40

DRUG EFFECTS

Induction of superoxide dismutase in leukocytes by paraquat: correlation with age and possible predictor of longevity. Niwa Y, et al. Blood 1990 Aug 15;76(4):835–41

Nutrition and enzyme inducers in liver tumor promotion in human and rat. McLean EM, et al. Bull Cancer (Paris) 1990;77(5):505–8

Enzyme induction: rifampin–diospyramide interaction. Staum JM. DICP 1990 Jul–Aug;24(7–8):701–3

Effect of microsomal enzyme inducers on biliary and urinary excretion of acetaminophen metabolites in rats. Decreased hepatobiliary and increased hepatovascular transport of acetaminophen–glucuronide after microsomal enzyme induction. Gregus Z, et al. Drug Metab Dispos 1990 Jan–Feb;18(1):10–9

Metabolism of the arylamide herbicide propanil. II. Effects of propanil and its derivatives on hepatic microsomal drug–metabolizing enzymes in the rat. McMillan DC, et al. Toxicol Appl Pharmacol 1990 Mar 15;103(1):102–12

Effects of some hepatic microsomal enzyme inducers and inhibitors on xylazine–ketamine anesthesia. Amouzadeh HR, et al. Vet Hum Toxicol 1989 Dec;31(6):532–4

[Treatment of arrhythmia in patients with chronic ischemic heart disease using kinilentin combined with an inhibitor or inductor of microsomal oxidation] Kharlamova IV, et al. Sov Med 1989;(12):41–4 (Rus)

ENZYME INHIBITORS

Protein phosphatase composition in the smooth muscle of guinea–pig ileum studied with okadaic acid and inhibitor 2. Takai A, et al. Biochem J 1989 Sep 1;262(2):617–23

NMR methods for determining the structures of enzyme/inhibitor complexes as an aid in drug design. Fesik SW, et al. Biochem Pharmacol 1990 Jul 1;40(1):161–7 (21 ref.)

Differential cell cycle perturbation by transmethylation inhibitors. Prytz PS, et al. Biochem Pharmacol 1990 Jan 1;39(1):203–6

Comparative inhibitory effects of mefloquine and primaquine on hepatic drug–metabolizing enzymes. Sukhumanan T, et al. Biochem Pharmacol 1990 Jan 1;39(1):212–6

Induction of mammalian topoisomerase II dependent DNA cleavage by nonintercalative flavonoids, genistein and orobol. Yamashita Y, et al. Biochem Pharmacol 1990 Feb 15;39(4):737–44

Inhibition of sterol biosynthesis enzymes in vitro by analogues of high–energy carbocationic intermediates. Rahier A, et al. Biochem Soc Trans 1990 Feb;18(1):48–52 (33 ref.)

Competitive inhibition of lipolytic enzymes. III. Some acylamino analogues of phospholipids are potent competitive inhibitors of porcine pancreatic phospholipase A2. de Haas GH, et al. Biochim Biophys Acta 1990 Mar 12;1043(1):75–82

Competitive inhibition of lipolytic enzymes. II. Preparation of 'monoacylamino' phospholipids. Dijkman R, et al.
Biochim Biophys Acta 1990 Mar 12;1043(1):67–74

Competitive inhibition of lipolytic enzymes. I. A kinetic model applicable to water–insoluble competitive inhibitors. Ransac S, et al. Biochim Biophys Acta 1990 Mar 12; 1043(1):57–66

Study of enzyme inhibitory activities by dipyridamole. Noro T, et al. Chem Pharm Bull (Tokyo) 1990 May;38(5):1403–4

Linkage studies of the Wiskott–Aldrich syndrome: polymorphisms at TIMP and the X chromosome centromere are informative markers for genetic prediction. Greer WL, et al. Hum Genet 1989 Oct;83(3):227–30

Interaction of gosypol with amino acids and peptides as a model of enzyme inhibition. Strøm–Hansen T, et al.
Int J Pept Protein Res 1989 Oct;34(4):306–10

Plasmids encoding PKI(1–31), a specific inhibitor of cAMP–stimulated gene expression, inhibit the basal transcriptional activity of some but not all cAMP–regulated DNA response elements in JEG–3 cells. Grove JR, et al. J Biol Chem 1989 Nov 25;264(33):19506–13

Further evidence for an essential histidyl residue at the active site of pig liver 5–aminolevulinic acid dehydratase. Fukuda H, et al. J Enzym Inhib 1990;3(4):295–302

Evidence for lidocaine–induced enzyme inactivation. Saville BA, et al. J Pharm Sci 1989 Dec;78(12):1003–8

Involvement of cyclic AMP–dependent protein kinases in the signal transduction pathway for interleukin–1. Chedid M, et al. Mol Cell Biol 1990 Jul;10(7):3824–7

Kinase and neurotransmitters [letter] Aitken A, et al.
Nature 1990 Apr 12;344(6267):594

[In vitro enzyme inhibitory and in vivo cardioprotective activities of hibiscus (Hibiscus sabdariffa L.)] Jonadet M, et al. J Pharm Belg 1990 Mar–Apr;45(2):120–4 (Eng. Abstr.) (Fre)

[Enzyme inhibitors and receptor antagonists in the arachidonic cascade] Arai Y, et al. Nippon Rinsho 1990 Jun;48(6):1120–8 (Jpn)

ADMINISTRATION & DOSAGE

Amastatin potentiation of drinking induced by blood–borne angiotensin: evidence for mediation by endogenous brain angiotensin. Sullivan MJ, et al. Brain Res 1990 Mar 5; 510(2):237–41

ANALYSIS

Synovial fluids from infected joints contain active metalloproteinases and no inhibitory activity. Cawston TE, et al. Br J Rheumatol 1989 Oct;28(5):386–92

The interference of EDTA in searching for heat–stable low–Mr inhibitors of protein kinases [comment] Zevgolis VG, et al. Eur J Biochem 1990 Feb 22;188(1):203–4 Comment on: Eur J Biochem 1988 Nov 15;177(3):657–64.

BLOOD

Identification of Na+/K+–ATPase inhibitors in bovine plasma as fatty acids and hydrocarbons. Tal DM, et al. Biochim Biophys Acta 1989 Oct 2;985(1):55–9

Effects of methylamine and heparin on a rapid chromogenic assay of C1–esterase inhibitor in plasma. Munkvad S, et al. Clin Chem 1990 May;36(5):737–41

Hydrolysis and protection from hydrolysis of enkephalins in human plasma. Marini M, et al. Neurochem Res 1990 Jan;15(1):61–7

CHEMICAL SYNTHESIS

Reversible inhibitors of the gastric (H+/K+)-ATPase. 1. 1-Aryl-4-methylpyrrolo[3,2-c]quinolines as conformationally restrained analogues of 4-(arylamino)quinolines. Brown TH, et al. J Med Chem 1990 Feb;33(2):527–33

Approaches to isozyme–specific inhibitors. 17. Attachment of a selectivity–inducing substituent to a multisubstrate adduct. Implications for facilitated design of potent, isozyme–selective inhibitors. Kappler F, et al.
J Med Chem 1990 Sep;33(9):2545–51

Analogues of carbamyl aspartate as inhibitors of dihydroorotase: preparation of boronic acid transition–state analogues and a zinc chelator carbamylhomocysteine. Kinder DH, et al. J Med Chem 1990 Feb;33(2):819–23

Some benzyl–substituted imidazoles, triazoles, tetrazoles, pyridinethiones, and structural relatives as multisubstrate inhibitors of dopamine beta–hydroxylase. 4. Structure–activity relationships at the copper binding site.

Kruse LI, et al. **J Med Chem** 1990 Feb;33(2):781–9
Potent inhibition of thymidylate synthase by two series of nonclassical quinazolines. McNamara DJ, et al. **J Med Chem** 1990 Jul;33(7):2045–51
3-Hydroxy-3-methylglutaryl-coenzyme A reductase inhibitors. 6. Trans-6-[2-(substituted-1-naphthyl)ethyl(or ethenyl)]-3,4,5,6-tetrahydro-4-hydroxy-2H-pyran-2-ones. Prugh JD, et al. **J Med Chem** 1990 Feb;33(2):758–65
Water-soluble renin inhibitors: design of a subnanomolar inhibitor with a prolonged duration of action. Rosenberg SH, et al. **J Med Chem** 1990 Jul;33(7):1962–9
1,4-Dihydronaphthoquinones, hydroindoloquinones, benzofurans, and benzothiophenes as inhibitors of 5-lipoxygenase. Synthesis and structure-activity studies. Yamashita A, et al. **J Med Chem** 1990 Feb;33(2):775–81
[Synthesis of CSD and it's antitumor effect] Chen ZZ. **Chung Hua Chung Liu Tsa Chih** 1989 Jul;11(4):251–3 (Eng. Abstr.) **(Chi)**

ISOLATION & PURIFICATION

Evidence for the presence of an endogenous cytosolic protein inhibitor of intestinal fucosyltransferase activities. Martin A, et al. **Biochem Biophys Res Commun** 1990 Jan 30; 166(2):1024–31
Topostin, a novel inhibitor of mammalian DNA topoisomerase I from Flexibacter topostinus sp. nov. II. Purification and some properties of topostin. Ikegami Y, et al. **J Antibiot (Tokyo)** 1990 Feb;43(2):158–62
Topostin, a novel inhibitor of mammalian DNA topoisomerase I from Flexibacter topostinus sp. nov. I. Taxonomy, and fermentation of producing strain. Suzuki K, et al. **J Antibiot (Tokyo)** 1990 Feb;43(2):154–7
Carbon monoxide dehydrogenase inhibitor in cell extracts of Pseudomonas carboxydovorans. Do YS, et al. **J Bacteriol** 1990 Mar;172(3):1267–70
Purification and characterization of two related but distinct metalloproteinase inhibitors secreted by bovine aortic endothelial cells. De Clerck YA, et al. **J Biol Chem** 1989 Oct 15;264(29):17445–53
Juvenile hormone esterase activity repressive factor in the plasma of parasitized insect larvae. Hayakawa Y. **J Biol Chem** 1990 Jul 5;265(19):10813–6
A novel peptide inhibitor of the myosin ATPase from an Okinawan marine sponge. Hiratsuka T. **J Biol Chem** 1989 Oct 25;264(30):18162–7
Purification and partial characterization of a cellular inhibitor of the interferon-induced protein kinase of Mr 68,000 from influenza virus-infected cells. Lee TG, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6208–12

METABOLISM

Increased immunostaining of collagenase and TIMP in eruptive xanthoma. Childers JW, et al. **Am J Med Sci** 1989 Sep;298(3):172–6
An experimental method for the determination of enzyme–competitive inhibitor dissociation constants from displacement curves: application to human renin using fluorescence energy transfer to a synthetic dansylated inhibitor peptide. Epps DE, et al. **Anal Biochem** 1989 Aug 15;181(1):172–81
Interaction of the catalytic subunits of protein phosphatase-1 and 2A with inhibitor-1 and 2: a fluorescent study with sulfhydryl-specific pyrene maleimide. Csortos C, et al. **Biochem Biophys Res Commun** 1990 Jun 15;169(2):559–64
Dissociation of tissue inhibitor of metalloproteinases (TIMP) from enzyme complexes yields fully active inhibitor. Murphy G, et al. **Biochem J** 1989 Aug 1;261(3):1031–4
Binding modes of inhibitors of ribonuclease T1 as elucidated by analysis of two-dimensional NMR. Shimada I, et al. **Biochemistry** 1990 Jan 23;29(3):757–64
Screening of microorganisms for enzyme-inhibiting activities. Angelov T, et al. **J Basic Microbiol** 1989; 29(7):469–72
Appendix to the sulfur-cyanolysis sites of serum albumin: metabolite competition studies. Tight-binding inhibitions that yield atypical Henderson plots. Westley J, et al. **J Biochem Toxicol** 1989 Winter;4(4):263–5
A proton nuclear magnetic resonance and molecular modeling study of calmidazolium (R24571) binding to calmodulin and skeletal muscle troponin C. Reid DG, et al. **J Biol Chem** 1990 Jun 15;265(17):9744–53
Angiotensin converting enzyme in the human basal forebrain and midbrain visualized by in vitro autoradiography. Chai SY, et al. **J Comp Neurol** 1990 Jan 8;291(2):179–94
Ill-conditioning associated with the "end-point" method for the determination of kinetic parameters describing irreversible enzyme inactivation by an unstable inhibitor. Topham CM. **J Theor Biol** 1988 Nov 21;135(2):169–73
Two theoretical problems concerning the irreversible modification kinetics of enzyme activity. Wang ZX. **J Theor Biol** 1990 Feb 22;142(4):551–63
An alternative method for determining inhibition rate constants by following the substrate reaction. Wang ZX, et al. **J Theor Biol** 1990 Feb 22;142(4):531–49
Molecular cloning of a tissue-specific protein kinase (C gamma) from human testis—representing a third isoform for the catalytic subunit of cAMP-dependent protein kinase. Beebe SJ, et al. **Mol Endocrinol** 1990 Mar; 4(3):465–75
The expression of cAMP-dependent protein kinase subunits in primary rat hepatocyte cultures. Cyclic AMP down-regulates its own effector system by decreasing the amount of catalytic subunit and increasing the mRNAs for the inhibitory (R) subunits of cAMP-dependent protein kinase. Houge G, et al. **Mol Endocrinol** 1990 Mar;4(3):481–8
[Aldose reductase and its inhibitors. Current data] Bordat B, et al. **Bull Soc Ophtalmol Fr** 1989 Jun-Jul;89(6-7):885–9 **(Fre)**

PHARMACOLOGY

Permeabilisation of the sarcolemma in mouse diaphragm exposed to Bay K 8644 in vitro: time course, dependence on Ca2+ and effects of enzyme inhibitors. Howl JD, et al. **Acta Neuropathol (Berl)** 1990;79(4):438–43
Investigation on glyoxalase I inhibitors. Barnard JF, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):118–24
Effect of DNA polymerase inhibitors on DNA repair in intact and permeable human fibroblasts: evidence that DNA polymerases delta and beta are involved in DNA repair synthesis induced by N-methyl-N'-nitro-N-nitrosoguanidine. Hammond RA, et al. **Biochemistry** 1990 Jan 9;29(1):286–91
Neuropathological changes in the caudate nucleus elicited by MPTP and their prevention by monoamine oxidase inhibition. Hess A. **Brain Res** 1989 Oct 16;499(2):393–6
Effects of adenosine deaminase inhibition on active uptake and metabolism of adenosine in astrocytes in primary cultures. Matz H, et al. **Brain Res** 1990 May 7; 515(1-2):168–72
An endogenous inhibitor of N-acetylgalactosaminyltransferase inhibits retina neuron differentiation in culture. Quiroga S, et al. **Brain Res** 1990 Feb 5;508(2):337–40
Prevention of the toxic action of tumor necrosis factor by cyclooxygenase inhibitor and leukopenia. Goto F, et al. **Circ Shock** 1989 Nov;29(3):175–80
Comparative sensitivities of purified preparations of lysyl oxidase and other amine oxidases to active site-directed enzyme inhibitors. Tang SS, et al. **Connect Tissue Res** 1989; 19(1):93–103
Cytoplasmic accumulations in rat primary brain cell cultures following tre..iment with E-64, a thiol protease inhibitor. Matsui K, et al. **Dev Neurosci** 1990;12(2):133–9
Potency and specificity of CGS-16949A as an aromatase inhibitor. Santen RJ, et al. **Endocr Res** 1990;16(1):77–91
Inhibition of mitosis in fertilized sea urchin eggs by inhibition of the cyclic AMP-dependent protein kinase. Browne CL, et al. **Exp Cell Res** 1990 May;188(1):122–8
Multiple pathways of rapid beta 2-adrenergic receptor desensitization. Delineation with specific inhibitors. Lohse MJ, et al. **J Biol Chem** 1990 Feb 25;265(6):3202–11
Effect of inhibitors of N-linked oligosaccharide processing on the cell surface expression of a melanoma integrin. Spiro RC, et al. **J Cell Biochem** 1989 Sep;41(1):37–45
Phenylethylamine in the CNS: effects of monoamine oxidase inhibiting drugs, deuterium substitution and lesions and its role in the neuromodulation of catecholaminergic neurotransmission. Boulton AA, et al. **J Neural Transm Suppl** 1990;29:119–29 (38 ref.)
From moclobemide to Ro 19-6327 and Ro 41-1049: the development of a new class of reversible, selective MAO-A and MAO-B inhibitors. Da Prada M, et al. **J Neural Transm Suppl** 1990;29:279–92 (29 ref.)
Modifiers of F1-ATPases and associated peptides. Satre M, et al. **Methods Enzymol** 1986;126:712–32
Use of specific inhibitors on the mitochondrial bc1 complex. von Jagow G, et al. **Methods Enzymol** 1986;126:253–71
RMI 12330A, an inhibitor of adenylate cyclase and cyclic AMP-phosphodiesterase activities in the segmental ganglia of the leech Hirudo medicinalis. Biondi C, et al. **Neurosci Lett** 1990 Jun 8;113(3):322–7
Differential effects of the protein kinase inhibitor K-252a on the in vitro survival of chick embryonic neurons. Borasio GD. **Neurosci Lett** 1990 Jan 1;108(1-2):207–12
Possible involvement of Na+,K(+)-ATPase inhibition in neurotransmitter release induced by collidine. Rodríguez de Lores Arnaiz G, et al. **Neurosci Lett** 1990 Jan 22; 108(3):309–13
An in vitro study of the effect of lipoxygenase and cyclo-oxygenase inhibitors of arachidonic acid on the induction and maintenance of long-term potentiation in the hippocampus. Williams JH, et al. **Neurosci Lett** 1989 Dec 15;107(1-3):301–6
Cerebral uric acid, xanthine, and hypoxanthine after ischemia: the effect of allopurinol. Nihei H, et al. **Neurosurgery** 1989 Oct;25(4):613–7
Absence of murine melanoma 5'-nucleotidase activity is not attributable to a detectable inhibitor. Moody D, et al. **Pigment Cell Res** 1989 Nov-Dec;2(6):502–3
Modulators of myosin light chain kinase activity affect both [Ca+2] and contraction in single smooth muscle cells. Itoh T, et al. **Prog Clin Biol Res** 1990;327:73–87 (26 ref.)
Inhibition of the actomyosin MgATPase by chicken gizzard calponin. Winder S, et al. **Prog Clin Biol Res** 1990; 327:141–8 (13 ref.)
Effects of some hepatic microsomal enzyme inducers and inhibitors on xylazine-ketamine anesthesia. Amouzadeh HR, et al. **Vet Hum Toxicol** 1989 Dec;31(6):532–4

THERAPEUTIC USE

Potent antinociceptive effects of kelatorphan (a highly efficient inhibitor of multiple enkephalin-degrading enzymes) systemically administered in normal and arthritic rats. Kayser V, et al. **Brain Res** 1989 Sep 11;497(1):94–101
The antinociceptive effects of intrathecally administered SCH32615, an enkephalinase inhibitor in the rat. Oshita S, et al. **Brain Res** 1990 May 7;515(1-2):143–8
Oxypurinol attenuates ischemia-induced hippocampal damage in the gerbil. Phillis JW. **Brain Res Bull** 1989 Dec; 23(6):467–70
Neuropsychological effects of L-deprenyl in Alzheimer's type dementia. Piccinin GL, et al. **Clin Neuropharmacol** 1990 Apr;13(2):147–63
Is there a case for P-450 inhibitors in cancer treatment? Van Wauwe JP, et al. **J Med Chem** 1989 Oct;32(10):2231–9 (96 ref.)
Impaired nerve regeneration in streptozotocin-diabetic rats. Effects of treatment with an aldose reductase inhibitor. Ekström AR, et al. **J Neurol Sci** 1989 Nov;93(2-3):231–7
[Clinico-pharmacological aspects of endogenous physiologically active compounds] Mashkovskiĭ MD. **Klin Med (Mosk)** 1990 Apr;68(4):3–15 **(Rus)**

TOXICITY

Induction of sister chromatid exchanges by inhibitors of topoisomerases. Lim M, et al. **Cell Biol Toxicol** 1986 Dec; 2(4):485–94

ENZYME-LABELED ANTIBODY TECHNIC see **IMMUNOENZYME TECHNICS**

ENZYME-LINKED IMMUNOSORBENT ASSAY

Comparative assay of varicella skin test antigens by the ELISA and RPHA tests. Shiraki K, et al. **Acta Virol (Praha)** 1990 Apr;34(2):139–44
Multicenter clinical evaluation of the Du Pont Herpchek HSV ELISA, a new rapid diagnostic test for the direct detection of herpes simplex virus. Baker DA, et al. **Adv Exp Med Biol** 1990;263:71–6
Simple methods for monitoring HIV-1 and HIV-2 gp120 binding to soluble CD4 by enzyme-linked immunosorbent assay: HIV-2 has a 25-fold lower affinity than HIV-1 for soluble CD4. Moore JP. **AIDS** 1990 Apr;4(4):297–305
Comparison of four latex agglutination (LA) and three enzyme-linked immunosorbent assays (ELISA) for the detection of rotavirus in fecal specimens [published errata appears in Am J Clin Pathol 1990 Feb;93(2):303] Lipson SM, et al. **Am J Clin Pathol** 1989 Nov;92(5):637–43
Heightened sensitivity of quantitative ELISA for IgM rheumatoid factor with the use of the biotin-streptavidin system. Moxley G. **Am J Clin Pathol** 1989 Nov;92(5):630–6
HIV antigen test kit [news] Katzin L. **Am J Nurs** 1989 Oct; 89(10):1264
Comparison of a rapid enzyme-linked immunosorbent assay test and the Gram stain for detection of group B streptococcus in high-risk antepartum patients. Towers CV, et al. **Am J Obstet Gynecol** 1990 Sep;163(3):965–7
Comparative laboratory diagnosis of experimental herpes simplex keratitis. Lee SF, et al. **Am J Ophthalmol** 1990 Jan 15;109(1):8–12
Serodiagnosis of the acquired immune deficiency syndrome by enzyme-linked immunosorbent assay compared to cellular immunologic parameters in African AIDS patients and controls. Francis HL, et al. **Am J Trop Med Hyg** 1988 May;38(3):641–6
Efficient diagnosis of giardiasis among nursery and primary school children in Santiago, Chile by capture ELISA for the detection of fecal Giardia antigens. Goldin AJ, et al. **Am J Trop Med Hyg** 1990 Jun;42(6):538–45
An ABC-ELISA for malaria serology in the field. Sato K, et al. **Am J Trop Med Hyg** 1990 Jan;42(1):24–7
Comparison of Dot-ELISA with Sandwich-ELISA for the detection of circulating antigens in patients with bancroftian filariasis. Zheng HJ, et al. **Am J Trop Med Hyg** 1990 Jun;42(6):546–9
Enzyme-linked immunosorbent assay for measurement of allergen-specific IgE antibodies in canine serum. Kleinbeck ML, et al. **Am J Vet Res** 1989 Nov;50(11):1831–9
An enzyme-linked immunosorbent assay using an arc 5 antigen for the diagnosis of cystic hydatid disease. Hira PR, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):157–62
An ELISA test for diagnosis and screening of echinococcus multilocularis in a high-risk Inupiat Eskimo population. Lanier AP, et al. **Arctic Med Res** 1988;47 Suppl 1:691–2
Purification and characterization of Ki antigen and detection of anti-Ki antibody by enzyme-linked immunosorbent assay in patients with systemic lupus erythematosus. Sakamoto M, et al. **Arthritis Rheum** 1989 Dec; 32(12):1554–62
Value of an ELISA for mycobacterial antigen detection as a routine diagnostic test of pulmonary tuberculosis. Banchuin N, et al. **Asian Pac J Allergy Immunol** 1990 Jun; 8(1):5–11
Serological screening of farm dogs for Echinococcus granulosus infection in an endemic region. Gasser RB, et al. **Aust Vet J** 1990 Apr;67(4):145–7
Development of an enzyme-linked immunosorbent assay to detect serum antibody to chicken anemia agent. Todd D, et al. **Avian Dis** 1990 Apr-Jun;34(2):359–63
Improved preparation of ELISA antigen of infectious bursal disease virus. Tsukamoto K, et al. **Avian Dis** 1990 Jan-Mar;

34(1):209-13
Enzyme-linked immunosorbent assays for kinins using high-affinity monoclonal kinin antibodies. Odya CE, et al. **Biochem Pharmacol** 1990 Jul 15;40(2):245-51
Development of a 3,3',5-tri-iodothyronine enzyme-linked immunosorbent assay. Fickling SA, et al. **Biochem Soc Trans** 1989 Dec;17(6):1063-4
An enzyme-linked immunosorbent assay for glycated albumin. Kirkham PA, et al. **Biochem Soc Trans** 1989 Dec; 17(6):1062-3
Quantitation of pertussis toxin in an enzyme linked immunosorbent assay with improved specificity. Ibsen P, et al. **Biologicals** 1990 Apr;18(2):123-6
Development of an ELISA to detect early local relapse of colorectal cancer. Durrant LG, et al. **Br J Cancer** 1989 Oct;60(4):533-7
Binding of bullous pemphigoid and pemphigus vulgaris sera to SCaBER cell line in an ELISA. Cook AL, et al. **Br J Dermatol** 1989 Jan;120(1):59-69
Comparative analysis of ELISAs employing repetitive peptides to detect antibodies to Plasmodium falciparum sporozoites. Del Giudice G, et al. **Bull World Health Organ** 1989;67(5):515-23
A nitrocellulose membrane-based ELISA for the detection of Plasmodium infections in mosquitos. Petros BL, et al. **Bull World Health Organ** 1989;67(5):525-33
ELISA method for detecting Plasmodium falciparum circumsporozoite antibody. Wirtz RA, et al. **Bull World Health Organ** 1989;67(5):535-42
Detection of antibodies against Mycobacterium tuberculosis [letter; comment] Svarcova I, et al. **Chest** 1990 Feb; 97(2):506-7 Comment on: Chest 1988 Dec;94(6):1254-5.
Light-chain ratios of immunoglobulins G, A, and M determined by enzyme immunoassay. Chui SH, et al. **Clin Chem** 1990 Mar;36(3):501-2
Two ELISA's for measurement of protein S, and their use in the laboratory diagnosis of protein S deficiency. Deutz-Terlouw PP, et al. **Clin Chim Acta** 1990 Jan 31; 186(3):321-34
The spot-ELISA: a sensitive in vitro method to study the immune response to hepatitis B surface antigen. Wismans PJ, et al. **Clin Exp Immunol** 1989 Oct;78(1):75-9
Detection of rotavirus in faecal specimens with a monoclonal antibody enzyme-linked immunosorbent assay: comparison with polyclonal antibody enzyme immuno-assays and a latex agglutination test. Sneyers M, et al. **Comp Immunol Microbiol Infect Dis** 1989;12(4):95-104
Methods for measuring erythropoietin and erythropoietin antibodies using ELISA technique. Kientsch-Engel R, et al. **Contrib Nephrol** 1989;76:100-5
Evaluation of three commercial tests for Lyme disease. Cutler SJ, et al. **Diagn Microbiol Infect Dis** 1990 May-Jun; 13(3):271-2
What do western blot indeterminate patterns for human immunodeficiency virus mean in EIA-negative blood donors. **Dis Markers** 1990 Mar-Apr;8(2):108
A competitive ELISA for the detection of group-specific antibodies to African horse sickness virus. Hamblin C, et al. **Epidemiol Infect** 1990 Apr;104(2):303-12
Comparison of Western blot and enzyme-linked immunosorbent assay for diagnosis of Lyme borreliosis. Karlsson M, et al. **Eur J Clin Microbiol Infect Dis** 1989 Oct;8(10):871-7
Age and sex correlation of Chlamydia trachomatis infections evaluated by the culture technique and by an enzyme immunosorbent assay, IDEIA. Ostergaard L, et al. **Eur J Obstet Gynecol Reprod Biol** 1990 Mar;34(3):273-81
Determination of sulphadimidine in animal feedstuffs by an enzyme-linked immunoassay. McCaughey WJ, et al. **Food Addit Contam** 1990 Mar-Apr;7(2):259-64
A rapid and sensitive ELISA for rainbow trout maturational gonadotropin (tGtH II): validation on biological samples; in vivo and in vitro responses to GnRH. Salbert G, et al. **Gen Comp Endocrinol** 1990 Apr;78(1):110-22
Development and evaluation of a monoclonal antibody inhibition enzyme linked immunosorbent assay to diagnose syphilis. Ijsselmuiden OE, et al. **Genitourin Med** 1989 Oct; 65(5):308-15
Sandwich enzyme-linked immunosorbent assays (SELISAs) quantitate and distinguish two forms of transforming growth factor-beta (TGF-beta 1 and TGF-beta 2) in complex biological fluids. Danielpour D, et al. **Growth Factors** 1989;2(1):61-71
Monoclonal antibodies to endothelin: application for sandwich immunoassays. Hamaoki M, et al. **Hybridoma** 1990 Feb;9(1):63-9
A microELISA useful for determination of protein A-binding monoclonal antibodies. Larsson A, et al. **Hybridoma** 1990 Jun;9(3):289-94
Heat-labile serum inhibitor of anti-phospholipid antibody binding in ELISA. Cheng HM, et al. **Immunol Lett** 1989 Oct;22(4):263-6
Development of an inexpensive and rapid two site microenzyme linked immunosorbent assay kit for human alpha fetoprotein. Bansal V, et al. **Indian J Exp Biol** 1989 Oct;27(10):907-9
An ELISA method for quantitation of tubulin using poly-l-lysine coated microtiter plates. Das S, et al. **Indian J Exp Biol** 1989 Nov;27(11):972-6
Comparative evaluation of serological tests in diagnosis of kala azar. Srivastava L. **Indian J Med Res** 1989 Jul; 89:265-70
ELISA (enzyme linked immuno sorbent assay) as a diagnostic tool in retinoblastoma. Kar PK, et al. **Indian J Ophthalmol** 1989 Jan-Mar;37(1):8-9
ELISA for antibodies to lipid A, lipopolysaccharides and other hydrophobic antigens. Freudenberg MA, et al. **Infection** 1989 Sep-Oct;17(5):322-8
How to predict the immune status of poliovirus vaccinees? A comparison of virus neutralization at a very low serum dilution versus ELISA in a cohort of infants. Simhon A, et al. **Int J Epidemiol** 1990 Mar;19(1):164-8
Evaluation of enzyme-linked immunosorbent assay (ELISA) for detection of staphylococcal enterotoxin in foods. Ewald S. **Int J Food Microbiol** 1988 Mar;6(2):141-53
Development of a sensitive enzyme-linked immunosorbent assay for the detection of diacetoxyscirpenol. Klaffer U, et al. **Int J Food Microbiol** 1988 Feb;6(1):9-17
DOT-enzyme linked immunosorbent assay for detection of Clostridium perfringens type A enterotoxin. Mehta R, et al. **Int J Food Microbiol** 1989 Aug;9(1):45-50
ELISA with enzyme amplification for sensitive detection of staphylococcal enterotoxins in food. Windemann H, et al. **Int J Food Microbiol** 1989 Feb;8(1):25-34
A slide enzyme-linked immunosorbent assay (SELISA) for the diagnosis of Babesia bovis infections and for the screening of Babesia-specific monoclonal antibodies. Kung'u MW, et al. **Int J Parasitol** 1990 May;20(3):341-5
Farmers lung: a three year survey and comparison of ELISA and CIEP techniques in antibody detection. Melinn M, et al. **Ir J Med Sci** 1989 Jul;158(7):173-4
ELISA for Campylobacter jejuni antibodies in Israeli children with diarrhea and in healthy soldiers. Schwartz D, et al. **Isr J Med Sci** 1990 Jun;26(6):319-24
Reverse-sandwich ELISA may underestimate antibody titers [letter; comment] van Ree R, et al. **J Allergy Clin Immunol** 1989 Oct;84(4 Pt 1):562-4 Comment on: J Allergy Clin Immunol 1988 Sep;82(3 Pt 1):407-13.
Development and performance of an enzyme-linked amperometric immunosensor for the detection of Staphylococcus aureus in foods. Mirhabibollahi B, et al. **J Appl Bacteriol** 1990 Jun;68(6):577-85
Comparative study of cell-immunoenzymatic methods for the estimation of IgG and IgM anti-Brucella antibodies in the diagnosis of human brucellosis. Mongini C, et al. **J Appl Bacteriol** 1990 Jul;69(1):86-91
Comparison of two ELISA screening tests with liquid chromatography for determination of aflatoxins in raw peanuts. Dorner JW, et al. **J Assoc Off Anal Chem** 1989 Nov-Dec;72(6):962-4
Determination of aflatoxin concentrations in peanut butter by enzyme-linked immunosorbent assay (ELISA): study of three commercial ELISA kits. Patey AL, et al. **J Assoc Off Anal Chem** 1989 Nov-Dec;72(6):965-9
Serodiagnosis of gut tuberculosis. Singh V, et al. **J Assoc Physicians India** 1990 Apr;38(4):267-9
Enhanced chemiluminescence ELISA for the detection of antibody to hepatitis B virus surface antigen. Ireland D, et al. **J Biolumin Chemilumin** 1989 Jul;4(1):159-63
A sensitive and wide-scale enzyme-immunoassay for human transferrin. Samra Z, et al. **J Clin Chem Clin Biochem** 1989 Aug;27(8):505-9
Evaluation of the ELISA test for detection of Entamoeba histolytica in feces. Merino E, et al. **J Clin Lab Anal** 1990; 4(1):39-42
Detection of anti-DNA antibodies by ELISA [letter; comment] Preud'homme JL. **J Clin Lab Anal** 1990; 4(1):79-80 (32 ref.) Comment on: J Clin Lab Anal 1989;3(1):34-40.
Evaluation of an ELISA for the detection of anti-Histoplasma ribosomal and antihistoplasmin antibodies in histoplasmosis. Raman C, et al. **J Clin Lab Anal** 1990; 4(3):199-207
Detection of antibodies against avian antigens in bronchoalveolar lavage from patients with pigeon breeder's disease: usefulness of enzyme-linked immunosorbent assay and enzyme immunotransfer blotting. Sandoval J, et al. **J Clin Lab Anal** 1990;4(2):81-5
An enzyme-linked immunosorbent assay for the detection of antitetanus toxoid antibody using aluminum-absorbed coating antigen. Thiele GM, et al. **J Clin Lab Anal** 1990; 4(2):126-9
Quantitation of expression of idiotopes recognized by a panel of monoclonal antibodies in normal serum immunoglobulin: use of a novel 4-stage ELISA assay. Cachia PG, et al. **J Clin Lab Immunol** 1989 Apr;28(4):195-200
A primary standard for the ELISA of thyroglobulin and microsomal autoantibody IgG subclass associated activity. Parkes AB, et al. **J Clin Lab Immunol** 1989 Nov;30(3):141-5
Comparison of a latex agglutination assay and an enzyme-linked immunosorbent assay for detecting cholera toxin. Almeida RJ, et al. **J Clin Microbiol** 1990 Jan; 28(1):128-30
Evaluation of enzyme-linked immunoassay systems for detection of human immunodeficiency virus type 1 antibody from filter paper disks impregnated with whole blood. Beebe JL, et al. **J Clin Microbiol** 1990 Apr; 28(4):808-10
Enzyme-linked immunosorbent assay for distinguishing serological responses of lepromatous and tuberculoid leprosies to the 29/33-kilodalton doublet and 64-kilodalton antigens of Mycobacterium tuberculosis. Das PK, et al. **J Clin Microbiol** 1990 Feb;28(2):379-82
Protein G-based enzyme-linked immunosorbent assay for anti-MPB70 antibodies in bovine tuberculosis. Harboe M, et al. **J Clin Microbiol** 1990 May;28(5):913-21
Enzyme-linked immunosorbent assay for immunoglobulin M specific antibody for the diagnosis of melioidosis. Kunakorn M, et al. **J Clin Microbiol** 1990 Jun;28(6):1249-53
Evaluation of the Captia enzyme immunoassays for detection of immunoglobulins G and M to Treponema pallidum in syphilis. Lefevre JC, et al. **J Clin Microbiol** 1990 Aug; 28(8):1704-7
Evaluation of three Chlamydia trachomatis immunoassays with an unbiased, noninvasive clinical sample. Paul ID, et al. **J Clin Microbiol** 1990 Feb;28(2):220-2
Detection by enzyme-linked immunosorbent assay of Aujeszky's disease virus in tissues of infected pigs. Qvist P, et al. **J Clin Microbiol** 1990 Feb;28(2):383-4
Detection of Entamoeba histolytica immunoglobulins G and M to plasma membrane antigen by enzyme-linked immunosorbent assay. Sathar MA, et al. **J Clin Microbiol** 1990 Feb;28(2):332-5
Serological response in Enterococcus faecalis endocarditis determined by enzyme-linked immunosorbent assay. Shorrock PJ, et al. **J Clin Microbiol** 1990 Feb;28(2):195-200
Quantitative immunoassay of Treponema denticola serovar C in adult periodontitis. Simonson LG, et al. **J Clin Microbiol** 1990 Jul;28(7):1493-6
Immunoassay for detection of feline immunodeficiency virus core antigen. Tilton GK, et al. **J Clin Microbiol** 1990 May; 28(5):898-904
Visuwell Reagin, a non-treponemal enzyme-linked immunosorbent assay for the serodiagnosis of syphilis. White TJ, et al. **J Clin Microbiol** 1989 Oct;27(10):2300-4
Evaluation of an enzyme-linked immunosorbent assay that uses ferrous metal beads for determination of antihistoplasmal immunoglobulins G and M. Zimmerman SE, et al. **J Clin Microbiol** 1990 Jan;28(1):59-64
Comparison of immunodiffusion and enzyme linked immunosorbent assay for antibodies to four Aspergillus species. Froudist JH, et al. **J Clin Pathol** 1989 Nov; 42(11):1215-21
Effect of heat inactivation of sera on anti-Trichomonas vaginalis IgG ELISA [letter; comment] Gombošová A, et al. **J Clin Pathol** 1989 Oct;42(10):1116-7 Comment on: J Clin Pathol 1988 Jul;41(7):802-5.
Assessment of rapid ELISA test for detection of Epstein-Barr virus infection. Matheson BA, et al. **J Clin Pathol** 1990 Aug;43(8):691-3
Development of monoclonal-antibody-ELISA and -DIP-STICK immunoassays for Penicillium islandicum in rice grains. Dewey FM, et al. **J Gen Microbiol** 1990 Apr; 136 (Pt 4):753-60
Enzyme-linked immunosorbent assay of antibodies to rabbit haemorrhagic disease virus and determination of its major structural proteins. Rodák L, et al. **J Gen Virol** 1990 May; 71 (Pt 5):1075-80
Treatment of antibodies to reduce non-specific binding in immunoassays using the avidin-biotin complex. Bodmer DM, et al. **J Immunoassay** 1990;11(2):139-45
A simple immunosorbent assay for detection of human blood. Kashyap VK. **J Immunoassay** 1989;10(4):315-24
Solid-phase enzyme immunoassay for the detection of HMG nonhistone proteins in their native structure. Lepp WA, et al. **J Immunoassay** 1989;10(4):449-65
Favourable effect of detergent on antigen detection and comparison of enzyme linked detection systems in an ELISA for Chlamydia trachomatis. Noorduyn LA, et al. **J Immunoassay** 1989;10(4):429-48
Influence of the peptide insolubilization method on detection of anti-peptide antibodies in ELISA. Evaluation of nonspecific interactions. Presentini R, et al. **J Immunoassay** 1989;10(4):395-412
Enzyme-linked immunosorbent assays for determination of plasma aldosterone using highly specific polyclonal antibodies. Schwartz F, et al. **J Immunoassay** 1990; 11(2):215-34
The urease ELISA for H-Y antibody. A cautionary tale. Baird MA, et al. **J Immunol Methods** 1990 Apr 17; 128(2):293-5
Heat inactivation of serum potentiates anti-cardiolipin antibody binding in ELISA. Cheng HM, et al. **J Immunol Methods** 1989 Nov 30;124(2):235-8
A simple method for measuring patient anti-globulin responses against isotypic or idiotypic determinants. Cobbold SP, et al. **J Immunol Methods** 1990 Feb 20; 127(1):19-24
Modification, optimization and simplification of the spot ELISA technique for the enumeration of cells secreting anti-hapten antibodies. Greene G, et al. **J Immunol Methods** 1990 May 25;129(2):187-97
A new sandwich enzyme-linked immunosorbent assay (ELISA) for transforming growth factor alpha (TGF alpha) based upon conformational modification by antibody binding. Inagaki H, et al. **J Immunol Methods** 1990 Mar 27;128(1):27-37
Quantification of free alpha 2-macroglobulin and alpha 2-macroglobulin-protease complexes by a novel ELISA system based on streptococcal alpha 2-macroglobulin receptors. Justus CW, et al. **J Immunol Methods** 1990 Jan 24;126(1):103-8
Analysis of antibody reactivities in ELISA using protein blots as antigen substrates: S-ELISA. Lo WC, et al. **J Immunol Methods** 1990 Mar 27;128(1):17-25

A sandwich enzyme-linked immunoadsorbent assay for detection of murine macrophage colony-stimulating factor (CSF-1). Lokeshwar BL, et al. **J Immunol Methods** 1989 Sep 29;123(1):123-9

Covalent binding of detergent-solubilized membrane glycoproteins to Chemobond plates for ELISA. Lutz HU, et al. **J Immunol Methods** 1990 May 25;129(2):211-20

Assay of complement activation in mouse serum by ELISA. Morrison LJ, et al. **J Immunol Methods** 1990 Feb 9; 126(2):191-7

An ELISA method for the quantification of anti-streptolysin-O antibodies. Moscoso del Prado J, et al. **J Immunol Methods** 1989 Nov 30;124(2):219-23

Measurement of association constants in ELISA. Reactions between solid-phase antibody and fluid-phase biotinylated antigen. Murray JS, et al. **J Immunol Methods** 1990 Feb 20;127(1):25-8

Terasaki-ELISA for murine IgE. III. Determination of concentration and functional affinity by sequential equilibrium binding analysis. Pathak SS, et al. **J Immunol Methods** 1989 Sep 29;123(1):71-81

Production and characterization of monoclonal antibodies against human Cu/Zn superoxide dismutase and the establishment of a super-rapid enzyme-linked immunosorbent assay (SURALISA). Porstmann T, et al. **J Immunol Methods** 1990 Feb 20;127(1):1-10

An ELISA for the detection of anti-neutrophil cytoplasm antibodies (ANCA). Rasmussen N, et al. **J Immunol Methods** 1990 Feb 20;127(1):139-45

ELISA methods for the estimation of C3d [letter; comment] Senaldi G, et al. **J Immunol Methods** 1989 Nov 30; 124(2):283-6 Comment on: J Immunol Methods 1989 Jun 21;120(2):207-14.

Measurement of the humoral immune response against Streptococcus pneumoniae type 14-derived antigens by an ELISA and ELISPOT assay based on biotin-avidin technology. Verheul AF, et al. **J Immunol Methods** 1990 Jan 24;126(1):79-87

Haptenated nylon-coated polystyrene plates as a solid phase for ELISA. Verschoor JA, et al. **J Immunol Methods** 1990 Feb 20;127(1):43-9

Substantially increased sensitivity of the spot-ELISA for the detection of anti-insulin antibody-secreting cells using a capture antibody and enzyme-conjugated insulin. Vos Q, et al. **J Immunol Methods** 1990 Jan 24;126(1):89-94

Evaluation of enzyme-linked immunosorbent assays with two synthetic peptides of Epstein-Barr virus for diagnosis of infectious mononucleosis. Linde A, et al. **J Infect Dis** 1990 May;161(5):903-9

An ELISA for the serodiagnosis of tuberculosis using a 30,000-Da native antigen of Mycobacterium tuberculosis. Sada E, et al. **J Infect Dis** 1990 Oct;162(4):928-31

Anti-interferon antibodies to interferon-alpha 2b: results of comparative assays and clinical perspective. Spiegel RJ, et al. **J Interferon Res** 1989 Sep;9 Suppl 1:S17-24

Evaluation of a monoclonal antibody-based enzyme-linked immunosorbent assay as a candidate reference method for the measurement of apolipoprotein B-100. Albers JJ, et al. **J Lipid Res** 1989 Sep;30(9):1445-58

A selective bi-site immunoenzymatic procedure for human Lp[a] lipoprotein quantification using monoclonal antibodies against apo[a] and apoB. Vu Dac N, et al. **J Lipid Res** 1989 Sep;30(9):1437-43

Evaluation of a new enzyme-linked immunosorbent assay (ELISA) in the diagnosis of rhinovirus infection. al-Nakib W, et al. **J Med Virol** 1989 Dec;29(4):268-72

Enzyme linked immuno assay of cardiac troponin T for the detection of acute myocardial infarction in patients. Katus HA, et al. **J Mol Cell Cardiol** 1989 Dec;21(12):1349-53

Heat treatment of serum and plasma induces false positive results in the antiphospholipid antibody ELISA. Hasselaar P, et al. **J Rheumatol** 1990 Feb;17(2):186-91

Antigen- versus antibody-immobilized ELISA procedures based on a biotinyl-estradiol conjugate. Bodmer DM, et al. **J Steroid Biochem** 1989 Dec;33(6):1161-6

Comparative efficacy of indirect haemagglutination test, indirect fluorescent antibody test and enzyme linked immunosorbent assay in serodiagnosis of typhoid fever. Rai GP, et al. **J Trop Med Hyg** 1989 Dec;92(6):431-4

Enzyme-linked immunosorbent assay as a diagnostic method for schistosomiasis haematobium. Standardization and application in the field. Uga S, et al. **J Trop Med Hyg** 1989 Dec;92(6):407-11

Enzyme-linked immuno-assay for the detection of mycobacterium tuberculosis specific IgG antibody in the cerebrospinal fluid in cases of tuberculous meningitis. Dole M, et al. **J Trop Pediatr** 1989 Oct;35(5):218-20

Rubella and cytomegalovirus (CMV) infections: laboratory aspects of investigation of antenatal, congenital, persistent, and subclinical infections. Hossain A, et al. **J Trop Pediatr** 1989 Oct;35(5):225-9

Comparison of an antibody-capture IgM enzyme-linked immunosorbent assay with IgM-indirect immunofluorescence for the diagnosis of acute Sindbis and West Nile infections. Besselaar TG, et al. **J Virol Methods** 1989 Sep;25(3):337-45

Dot-ELISA for serodiagnosis of human infections due to Western equine encephalitis virus. Boctor FN, et al. **J Virol Methods** 1989 Dec;26(3):305-11

Discordant results obtained on testing sera from immunocompromised patients for cytomegalovirus IgG by enzyme-linked immunosorbent assay and radioimmunoassay. Booth JC, et al. **J Virol Methods** 1989 Oct;26(1):77-89

An amplified ELISA for the detection of parvovirus B19 IgM using monoclonal antibody to FITC. Brown KE, et al. **J Virol Methods** 1989 Nov;26(2):189-98

HIV-1 antibody testing strategy: evaluation of ELISA screening and western blot profiles in a mixed low risk/high risk patient population. Downie JC, et al. **J Virol Methods** 1989 Dec;26(3):291-303

Detection of Marek's disease virus antigen in chickens by a novel immunoassay. Scholten R, et al. **J Virol Methods** 1990 Feb;27(2):221-6

Enzyme-linked immunosorbent assay for IgG and IgM antibodies against human parvovirus B19: use of monoclonal antibodies and viral antigen propagated in vitro. Yaegashi N, et al. **J Virol Methods** 1989 Nov; 26(2):171-81

Enzyme-linked immunosorbent assay for efficient detection of antibody to bluetongue virus in pronghorn (Antilocapra americana). Drolet BS, et al. **J Wildl Dis** 1990 Jan; 26(1):34-40

Characterization of monoclonal antibodies to human interferon-gamma and their application to enzyme-linked immunosorbent assay (ELISA). Hirai M, et al. **Jpn J Med Sci Biol** 1989 Aug;42(4):127-36

Serodiagnosis of leprosy in patients' contacts by enzyme-linked immunosorbent assay. Gonzalez-Abreu E, et al. **Lepr Rev** 1990 Jun;61(2):145-50

Quantitative assessment by competitive ELISA of fibronectin (Fn) in tendons and ligaments. Amiel D, et al. **Matrix** 1990 Jan;9(6):421-7

Enzyme-linked immunosorbent assay for alpha-fetoprotein in human serum. Chui SH, et al. **Med Lab Sci** 1989 Oct; 46(4):305-8

Toxoplasmosis: effectiveness of enzyme immunoassay screening. Joss AW, et al. **Med Lab Sci** 1989 Apr; 46(2):107-12

Development of an enzyme immunoassay for the serodiagnostic of tuberculosis and mycobacterioses. Maes R, et al. **Med Microbiol Immunol (Berl)** 1989;178(6):323-35

Evaluation of antibody responses in American visceral leishmaniasis by ELISA and immunoblot. Evans TG, et al. **Mem Inst Oswaldo Cruz** 1989 Apr-Jun;84(2):157-66

Enzyme-linked immunosorbent assay. Vann WF, et al. **Methods Enzymol** 1990;184:537-41

Antigen capture ELISA for HTLV I in cell culture. Bonfanti C, et al. **Microbiologica** 1989 Oct;12(4):339-44

Immunochemical assay applied to mycotoxin biosynthesis: ELISA comparison of sterigmatocystin production by Aspergillus versicolor and Aspergillus nidulans. Chung DH, et al. **Mycopathologia** 1989 Sep;107(2-3):93-100

Presentation of solid phase assays from several laboratories. Daha MR, et al. **Neth J Med** 1990 Apr;36(3-4):137-42

Efficacy of alternative tests for delayed-cyclic food hypersensitivity. King WP, et al. **Otolaryngol Head Neck Surg** 1989 Sep;101(3):385-91

Detection of circulating antibodies to purified protein derivative by enzyme-linked immunosorbent assay: its potential for the rapid diagnosis of tuberculosis. Barrera L, et al. **Pediatr Infect Dis J** 1989 Nov;8(11):763-7

Rapid detection of respiratory syncytial virus by a biotin-enhanced immunoassay: test performance by laboratory technologists and housestaff. Subbarao EK, et al. **Pediatr Infect Dis J** 1989 Dec;8(12):865-9

An enzyme-linked immunoassay for the measurement of the concentration of cortisol in sheep plasma. Ford EJ, et al. **Res Vet Sci** 1990 Mar;48(2):262-3

Application of an enzyme-linked immunosorbent-inhibition assay to quantitate the release of KS peptides into fluids of the rat subcutaneous air-pouch model and the effects of chondroprotective drugs on the release process. Kongtawelert P, et al. **Rheumatol Int** 1989;9(2):77-83

Molecular distribution of elastase between its two main inhibitors: direct quantitation of elastase-alpha 2-macroglobulin complex with a novel ELISA technique. Adeyemi EO, et al. **Scand J Clin Lab Invest** 1990 Jun; 50(4):433-40

Comparative study of assays detecting complement activation. Complement-split product C3d (rocket immuno-electrophoresis) and C3d neodeterminants (ELISA). Espersen GT, et al. **Scand J Clin Lab Invest** 1990 Jun;50(4):389-93

Increased urinary haemoglobin in diabetics with microalbuminuria--measured by an ELISA. Schmitz A. **Scand J Clin Lab Invest** 1990 May;50(3):303-8

A new enzyme-linked immunosorbent assay for urine and serum concentrations of the carboxyterminal domain (NCl) of collagen. IV. Application in type I (insulin-dependent) diabetes. Torffvit O, et al. **Scand J Clin Lab Invest** 1989 Sep;49(5):431-9

Mixed enzyme-linked immunosorbent assay (MELISA) for HLA class I antigen: a plasma membrane marker. Bjerrum OW, et al. **Scand J Immunol** 1990 Mar;31(3):305-13

Evaluation of a genus-specific monoclonal antibody in an amplified enzyme-linked immunoassay in the detection of Chlamydia in urine samples from men. Jawad AJ, et al. **Sex Transm Dis** 1990 Apr-Jun;17(2):87-9

dsDNA--measurement by enzyme linked immunosorbent assay and clinical usefulness. Boey ML. **Singapore Med J** 1989 Jun;30(3):236-7

Evaluation of an ELISA method for the measurement of antibodies to dsDNA. Mohan TC, et al. **Singapore Med J** 1989 Jun;30(3):242-5

ELISA for diagnosis of gnathostomiasis using antigens from Gnathostoma doloresi and G. spinigerum. Anantaphruti MT. **Southeast Asian J Trop Med Public Health** 1989 Jun; 20(2):297-304

Immunoreactivity of tissue plasminogen activator and of its inhibitor complexes. Biochemical and multicenter validation of a two site immunosorbent assay. Rånby M, et al. **Thromb Haemost** 1989 Jun 30;61(3):409-14

Rapid diagnosis of von Willebrand's disease using ELISA technology. Gilchrist M, et al. **Thromb Res** 1990 Feb 15; 57(4):659-64

New rapid assay for factor XIa-alpha 1 antitrypsin complex--application to DIC. Komiyama Y, et al. **Thromb Res** 1989 Sep 1;55(5):527-36

Quantitation of anticephalin antibodies in a computer-assisted enzyme-linked immunosorbent assay (ELISA): relation to lupus anticoagulant. Sletnes KE, et al. **Thromb Res** 1990 Jan 15;57(2):235-46

ELISA using Thrombofax is useful to verify antiphospholipid antibodies [letter] Staub HL, et al. **Thromb Res** 1990 Jun 1;58(5):533-4

Specific capture of ABH blood group antigens of the red cell or body fluids by double antibody sandwich-ELISA. Sagisaka K, et al. **Tohoku J Exp Med** 1989 Jul;158(3):211-9

Anticardiolipin antibodies by an enzyme-linked immunosorbent assay: fundamental studies on the conditions for antigen-application and specificity of the assay. Ichikawa Y, et al. **Tokai J Exp Clin Med** 1989 Apr; 14(2):103-12

Immunotechniques for epidemiology of malaria: appropriate tools for integration of primary health care with malaria research and control. Habluetzel A, et al. **Trans R Soc Trop Med Hyg** 1989;83 Suppl:15-9

Laboratory diagnosis of boutonneuse fever by enzyme-linked immunosorbent assay. Mansueto S, et al. **Trans R Soc Trop Med Hyg** 1989 Nov-Dec;83(6):855-7

A comparison of the direct agglutination test and enzyme-linked immunosorbent assay in the sero-diagnosis of leishmaniasis in the Sudan. el Safi SH, et al. **Trans R Soc Trop Med Hyg** 1989 May-Jun;83(3):334-7

ELISA test for the serodiagnosis of Akabane virus infection in cattle. Ungar-Waron H, et al. **Trop Anim Health Prod** 1989 Aug;21(3):205-10

Enzyme-linked immunosorbent assays (ELISA) for the diagnosis of enteric fever. Heiba I, et al. **Trop Geogr Med** 1989 Jul;41(3):213-7

Two simple antigen-detection enzyme immunoassays for the diagnosis of Trypanosoma evansi infections in the dromedary camel (Camelus dromedarius). Nantulya VM, et al. **Trop Med Parasitol** 1989 Dec;40(4):415-8

Modification of the FAST-ELISA for field diagnosis of schistosomiasis mansoni with serum or blood samples. Richards FO Jr, et al. **Trop Med Parasitol** 1989 Sep; 40(3):332-4

Evaluation of an ELISA for the diagnosis of experimentally induced and naturally occurring Leptospira hardjo infections in cattle. Bercovich Z, et al. **Vet Microbiol** 1990 Jan;21(3):255-62

Dot immunobinding assay in comparison with enzyme-linked immunosorbent assay for the detection of bluetongue virus antibodies in sheep. Gupta Y, et al. **Vet Microbiol** 1990 May;22(4):365-71

Blocking enzyme-linked immunosorbent assay for detection of antibodies against bovine enterovirus. Zhang AQ, et al. **Vet Microbiol** 1990 Jan;21(3):275-81

Comparative evaluation of the enzyme-linked immunosorbent assay (ELISA) in the diagnosis of natural Fasciola gigantica infection in cattle. Fagbemi BO, et al. **Vet Q** 1990 Jan;12(1):35-8

ELISA detection of Aujeszky's disease virus antibodies [letter; comment] Visser N. **Vet Rec** 1990 Feb 3;126(5):121 Comment on: Vet Rec 1989 Jul 15;125(3):63-4.

The use of the enzyme-linked immunosorbent assay (ELISA) in serological diagnosis of Mycoplasma bovis in dairy cattle. Uhaa IJ, et al. **Vet Res Commun** 1990;14(4):279-85

Development of a direct-binding enzyme-linked immunosorbent assay as an alternate assay for anti-hepatitis B core. Yang NY, et al. **Vox Sang** 1989;57(1):49-54

Surveillance of viral respiratory tract infections over a one year period in mainly hospitalized Austrian infants and children by a rapid enzyme-linked immunosorbent assay diagnosis. Kellner G, et al. **Wien Klin Wochenschr** 1990 Feb 16;102(4):100-6

Enzyme immunoassay for occult faecal blood. Cervantes C, et al. **Z Med Lab Diagn** 1989;30(8):431-6

Comparative evaluation of the agar gel immunodiffusion test and two commercial ELISA kits for the serodiagnosis of equine infectious anemia. Bürki F, et al. **Zentralbl Veterinarmed [B]** 1990 Aug;37(6):448-58

Establishment of an ELISA for the detection of orthopox viruses based on neutralizing monoclonal and polyclonal antibodies. Czerny CP, et al. **Zentralbl Veterinarmed [B]** 1989 Sep;36(7):537-46

[Determination of antitoxoplasma IgG antibodies using the ELISA method] Pokorný J, et al. **Cesk Epidemiol Mikrobiol Imunol** 1989 Dec;38(6):355-61 (Eng. Abstr.) (Cze)

[Contribution of immunoenzymatic technics to the assay of anti-native DNA antibodies in the biological diagnosis of lupus erythematosus disseminatus] Laplanche S, et al. **Ann Biol Clin (Paris)** 1990;48(3):177-81 (Eng. Abstr.) (Fre)

[Study of albumin conformational changes in human serum using an immunoenzymatic technic using monoclonal antibodies] Lapresle C. **Ann Biol Clin (Paris)** 1990; 48(2):105–10 (30 ref.) (Eng. Abstr.) (Fre)

[Determination of fibrinopeptide A (FpA): comparison of an enzymatic method and isotopic method with reference to ventilation–perfusion scintigraphy] Sebestyen G, et al. **Ann Biol Clin (Paris)** 1990;48(3):161–4 (Eng. Abstr.) (Fre)

[Determination of plasminogen in milk by an immunoenzymatic technic] Collin JC, et al. **C R Soc Biol (Paris)** 1989;183(2):174–9 (Eng. Abstr.) (Fre)

[Contribution of enzyme-linked immuno–electrotransfer blot assay for the diagnosis of human neurocysticercosis] Michault A, et al. **Pathol Biol (Paris)** 1990 Feb;38(2):119–25 (Eng. Abstr.) (Fre)

[Diagnosis of genital Chlamydia trachomatis infections using antigen detection and cell culture] Bernatchez H, et al. **Union Med Can** 1989 Mar–Apr;118(2):81–5 (Eng. Abstr.) (Fre)

[A screening procedure for determining tetanus antibody concentrations in blood products] Schütt KH, et al. **Infusionstherapie** 1990 Jun;17(3):156–9 (Eng. Abstr.) (Ger)

[ELISA for specifying oligoclonal bands of isoelectric focusing of cerebrospinal fluid in patients with neuroborreliosis and multiple sclerosis] Heller J, et al. **Nervenarzt** 1990 Apr;61(4):248–9 (Ger)

[Axial filament antigen enzyme immunoassay (AF–ELISA) in syphilis serology] Borkhardt HL, et al. **Z Gesamte Hyg** 1989 Oct;35(10):612–3 (Eng. Abstr.) (Ger)

[Determination of Candida albicans mannan antigen in serum] Helbig JH, et al. **Z Gesamte Hyg** 1989 Oct;35(10):599–600 (Eng. Abstr.) (Ger)

[Diagnosis of Legionella pneumonia by detection of antigenuria using an enzyme immunoassay with 6 antibody specificities] Helbig JH, et al. **Z Gesamte Hyg** 1989 Oct; 35(10):591–3 (Eng. Abstr.) (Ger)

[Detection of IgG antibodies against rubella virus using the "Rubella-IgG–EIA SSW" test kit] Meisegeier B, et al. **Z Gesamte Hyg** 1990 May;36(5):254–7 (Eng. Abstr.) (Ger)

[Detection of IgM rheumatoid factors using ELISA and agglutination tests with new latex] Rosmus K, et al. **Z Gesamte Hyg** 1990 Jun;36(6):323–5 (Eng. Abstr.) (Ger)

[Rationalization of the double-antibody ELISA for cortisol determination from microtest plates using the Sumal system] Weisbrod D, et al. **Z Med Lab Diagn** 1989; 30(6):343–7 (Eng. Abstr.) (Ger)

[Detection of antimitochondrial antibodies by immunodiffusion, ELISA and immunofluorescence methods] Kiss M, et al. **Orv Hetil** 1990 Jan 14;131(2):67–70, 73 (Eng. Abstr.) (Hun)

[ELISA diagnosis for Mycoplasma pneumoniae infection with human normal immunoglobulin products as control sera] Sasaki Y, et al. **Kansenshogaku Zasshi** 1990 Apr; 64(4):487–91 (Eng. Abstr.) (Jpn)

[Production and screening of monoclonal antibodies against HLA antigens] Ikewaki N, et al. **Nippon Rinsho** 1990 Feb; 48 Suppl:774–7 (Jpn)

[Purification of La/SSB antigen and an enzyme-linked immunosorbent assay for quantitation of the antibody] Kumagai T, et al. **Rinsho Byori** 1989 Jun;37(6):661–7 (Jpn)

[Analysis of the result of thyroid microsomal particle agglutination test by ELISA] Nakata K, et al. **Rinsho Byori** 1989 Nov;37(11):1263–8 (Eng. Abstr.) (Jpn)

[Anti–hepatitis C (HCV) ELISA. A serologic test for non–A non–B hepatitis (NANBH) after blood transfusion (letter)] Orstavik I, et al. **Tidsskr Nor Laegeforen** 1989 Dec 10; 109(34–36):3648 (Nor)

[Immunoenzyme test system with monoclonal antibodies to human IgG4 in the determination of allergen-specific antibodies in pollinosis] Chernokhvostova EV, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):574–7 (Eng. Abstr.) (Rus)

[Immunoenzyme analysis of the change in the expression of class II antigens of the major histocompatibility complex under the influence of interferon preparations] Kremlev SG, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):577–80 (Eng. Abstr.) (Rus)

[Use of ELISA for the detection of IgG antibodies to Mycobacterium tuberculosis in the diagnosis of tuberculosis] Sipolová E, et al. **Bratisl Lek Listy** 1990 Feb; 91(2):125–30 (Eng. Abstr.) (Slo)

[ELISA method for the determination of factor VII antigen (letter)] de Sousa JC, et al. **Sangre (Barc)** 1990 Apr; 35(2):144–5 (Spa)

INSTRUMENTATION

Comparative evaluation of the WHO and DAKOPATTS enzyme-linked immunoassay kits for rotavirus detection. Flewett TH, et al. **Bull World Health Organ** 1989; 67(4):369–74

Competitive heterogeneous enzyme immunoassay for theophylline by flow-injection analysis with electrochemical detection of p-aminophenol. Gil EP, et al. **Clin Chem** 1990 Apr;36(4):662–5

Accumulation of hyaluronate in human lung carcinoma as measured by a new hyaluronate ELISA. Li XQ, et al. **Connect Tissue Res** 1989;19(2–4):243–53

Comparison of commercial kits for the detection of antibody to human immunodeficiency virus type 1 (HIV-1) in Nigeria. Chikwem JO, et al. **East Afr Med J** 1990 Mar; 67(3):209–13

Chlamydial antibody, as determined with an enzyme-linked immunosorbent assay, in tubal factor infertility. Minassian SS, et al. **J Reprod Med** 1990 Feb;35(2):141–5

[A multicenter study of IgG and IgM toxo-test enzymun (published erratum appears in Ann Biol Clin (Paris) 1989;47(9):559)] Goullier-Fleuret A, et al. **Ann Biol Clin (Paris)** 1989;47(7):397–400 (Eng. Abstr.) (Fre)

METHODS

Evaluation of an ELISA kit for epidemiological detection of antibodies to Plasmodium falciparum sporozoites in human sera and bloodspot eluates. Esposito F, et al. **Acta Trop (Basel)** 1990 Jan;47(1):1–10

ELISPOT: a new approach to studying the dynamics of virus–immune system interaction for diagnosis and monitoring of HIV infection. Lee FK, et al. **AIDS Res Hum Retroviruses** 1989 Oct;5(5):517–23

Simple and rapid enzyme-linked immunosorbent assay for the detection of hemoglobin C[alpha 2 beta 2 6(A3)Glu——Lys] in cord blood using a monoclonal antibody. Shyamala M, et al. **Am J Hematol** 1990 Mar; 33(3):198–204

Serodiagnosis of tuberculosis using an ELISA with antigen 5 and a hemagglutination assay with glycolipid antigens. Results in patients with newly diagnosed pulmonary tuberculosis ranging in extent of disease from minimal to extensive. Chan SL, et al. **Am Rev Respir Dis** 1990 Aug; 142(2):385–9

Value of ELISA using A60 antigen in the diagnosis of active pulmonary tuberculosis. Charpin D, et al. **Am Rev Respir Dis** 1990 Aug;142(2):380–4

An enzyme-linked immunosorbent assay for N-acetylglucosaminyltransferase-V. Crawley SC, et al. **Anal Biochem** 1990 Feb 15;185(1):112–7

A competitive enzyme-linked immunosorbent assay: applications in the assay of peptides, steroids, and cyclic nucleotides. Kingan TG. **Anal Biochem** 1989 Dec; 183(2):283–9

Use of recombinant RNP peptides 70K and A in an ELISA for measurement of antibodies in mixed connective tissue disease: a longitudinal follow up of 18 patients. de Rooij DJ, et al. **Ann Rheum Dis** 1990 Jun;49(6):391–5

Enzyme-linked immunosorbent assay for Salmonella typhimurium in food: feasibility of 1-day Salmonella detection. Lee HA, et al. **Appl Environ Microbiol** 1990 Jun; 56(6):1541–6

An enzyme-linked immunoadsorbent assay for rat ceruloplasmin. DiSilvestro RA, et al. **Biol Trace Elem Res** 1988 Sep–Dec;17:1–9

A new microporous membrane for diagnostic immunoassays. Rudolph JL, et al. **Biotechniques** 1990 Aug;9(2):218–23

Clinical application of a new enzyme-linked assay for the estimation of brain-specific creatine kinase in head injured patients. Curley P, et al. **Br J Neurosurg** 1989;3(6):655–8

An enzyme-linked immunosorbent assay for cancer procoagulant and its potential as a new tumor marker. Gordon SG, et al. **Cancer Res** 1990 Oct 1;50(19):6229–34

Evaluation of two ELISA tests for the rapid detection of group A streptococci. Egger P, et al. **Eur J Pediatr** 1990 Jan;149(4):256–8

A rapid detection of circulating antigens of Dirofilaria immitis in dogs by a dot enzyme-linked immunosorbent assay. Matsumura K, et al. **FEMS Microbiol Immunol** 1988 Dec;1(3):145–9

A sensitive enzyme-linked immunosorbent assay used to differentiate type AB specimen from a mixture of type A and type B specimens. Sato M, et al. **Forensic Sci Int** 1990 Jul;46(3):231–42

Degradation of immobilized soluble elastin by tumor cells in culture: quantitation by ELISA. Caenazzo C, et al. **Int J Cancer** 1990 Sep 15;46(3):552–8

Utilization of two improved enzyme immunoassays based on avidin–biotin interaction for the detection of Salmonella. Prusak-Sochaczewski E, et al. **Int J Food Microbiol** 1989 Jul;8(4):321–33

Determination of zidovudine concentration in serum by enzyme-linked immunosorbent assay and by time-resolved fluoroimmunoassay. Tadepalli SM, et al. **J Acquir Immune Defic Syndr** 1990;3(1):19–27

A sandwich enzyme immunoassay for detecting and measuring Alzheimer's disease–associated proteins in human brain tissue. Ghanbari HA, et al. **J Clin Lab Anal** 1990;4(3):189–92

A dot-ELISA intended for the specific and simultaneous detection of antibodies directed to antigens derived from Toxoplasma gondii, rubella virus, cytomegalovirus, and type 1 and type 2 herpesviruses. Leonardi MS, et al. **J Clin Lab Anal** 1990;4(4):261–7

A dot-ELISA for the detection of IgG antibodies to mumps and varicella viruses. Leonardi MS, et al. **J Clin Lab Anal** 1990;4(3):165–9

Indirect enzyme-linked immunosorbent assay for detection of antibody to a 110,000-molecular-weight hemolysin of Actinobacillus pleuropneumoniae. Ma JN, et al. **J Clin Microbiol** 1990 Jun;28(6):1356–61

Enzyme linked immunosorbent assay for measuring antithrombin III. Edgar P, et al. **J Clin Pathol** 1989 Sep; 42(9):985–7

Comparison of six commercial enzyme linked immunosorbent assays for detecting IgM antibodies against Toxoplasma gondii. Verhofstede C, et al. **J Clin Pathol** 1989 Dec; 42(12):1285–90

An enzyme-linked immunosorbent assay for cortisol in the saliva of man and domestic farm animals. Cooper TR, et al. **J Endocrinol** 1989 Nov;123(2):R13–6

Enzyme-linked immunosorbent assays for determination of plasma aldosterone using highly specific polyclonal antibodies. Schwartz F, et al. **J Immunoassay** 1990; 11(2):215–34

Monoclonal antibody two-site ELISA for human IFN-gamma. Adaptation for determinations in human serum or plasma. Andersson G, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):89–96

Measurement of antibody affinity for cell surface antigens using an enzyme-linked immunosorbent assay. Bator JM, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):167–76

Optimal fixation of cells for use in solid-phase ELISA. Carroll K, et al. **J Immunol Methods** 1990 May 8; 129(1):71–6

A simple theoretical treatment of a competitive enzyme-linked immunosorbent assay (ELISA) and its application to the detection of human blood group antigens. Chapman V, et al. **J Immunol Methods** 1990 Jul 20; 131(1):91–8

Rat (and mouse) monoclonal antibodies. VIII. ELISA measurement of Ig production in mouse hybridoma culture supernatants. Delaunay T, et al. **J Immunol Methods** 1990 Jul 20;131(1):33–9

Detection of staphylococcal enterotoxin B. A comparative study of ELISA and ELIFA systems. Dupont H, et al. **J Immunol Methods** 1990 Apr 17;128(2):287–91

Analysis of the optimal conditions for the adsorption of type III pneumococcal polysaccharide to plastic for use in solid-phase ELISA. Elkins KL, et al. **J Immunol Methods** 1990 Jun 12;130(1):123–31

A new ELISA for the detection of double-stranded DNA antibodies. Emlen W, et al. **J Immunol Methods** 1990 Aug 28;132(1):91–101

An enzyme-linked immunosorbent assay for the determination of human IgG subclass antibodies directed against Branhamella catarrhalis. Goldblatt D, et al. **J Immunol Methods** 1990 Apr 17;128(2):219–25

Measurement of free human leukocyte elastase and human leukocyte elastase/alpha 1 proteinase inhibitor complexes by an enzyme-linked immunosorbent assay. Kramer MD, et al. **J Immunol Methods** 1990 Jul 20;131(1):41–8

A fast and efficient method for quantification of monoclonal antibodies in an ELISA using a novel incubation system. Mushens RE, et al. **J Immunol Methods** 1990 Jul 20; 131(1):83–9

A cell–ELISA for the quantification of adherent murine macrophages and the surface expression of antigens. Nibbering PH, et al. **J Immunol Methods** 1990 Jul 20; 131(1):25–32

A large scale dot blot ELISA using the 96-well culture plate. Piwowarczyk W, et al. **J Immunol Methods** 1990 Aug 28; 132(1):147–9

An enzyme-linked immunosorbent assay for the quantitation of DNA. Richardson NA, et al. **J Immunol Methods** 1989 Dec 20;125(1–2):287–9

A novel enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies to HIV-1 envelope glycoproteins based on immobilization of viral glycoproteins in microtiter wells coated with concanavalin A. Robinson JE, et al. **J Immunol Methods** 1990 Aug 28; 132(1):63–71

ELISA for quantitation of the extracellular domain of p185HER2 in biological fluids. Sias PE, et al. **J Immunol Methods** 1990 Aug 28;132(1):73–80

Covalently linked peptides for enzyme-linked immunosorbent assay. Søndergård-Andersen J, et al. **J Immunol Methods** 1990 Jul 20;131(1):99–104

An avidin–biotin ELISA for the measurement of mitochondrial aspartate aminotransferase in human serum. Varasteh A, et al. **J Immunol Methods** 1990 Apr 17; 128(2):203–9

Determination of the epitope specificities of monoclonal antibodies using unprocessed supernatants of hybridoma cultures. Würzner R, et al. **J Immunol Methods** 1990 Feb 9;126(2):231–7

Enzyme immunoassay (ELISA) for detection of Clostridium difficile toxin B in specimens of faeces. Nguyen VK, et al. **J Med Microbiol** 1990 Apr;31(4):251–7

Improved ELISA with immunosbsorbent–purified mycobacterial antigen for serodiagnosis of tuberculosis. Thongkrajai P, et al. **J Med Microbiol** 1989 Oct;30(2):101–4

Clinical value of an integrated ELISA system for the detection of 6 autoantibodies (ssDNA, dsDNA, Sm, RNP/Sm, SSA, and SSB). Froelich CJ, et al. **J Rheumatol** 1990 Feb;17(2):192–200

An improved ELISA and serum neutralisation test for the detection of turkey rhinotracheitis virus antibodies. O'Loan CJ, et al. **J Virol Methods** 1989 Sep;25(3):271–82

Penicillinase-based enzyme-linked immunosorbent assay for the detection of plant viruses. Sudarshana MR, et al. **J Virol Methods** 1989 Oct;26(1):45–52

Studies on the development of an ELISA kit for microbiological monitoring. 1. Evaluation of the reliability of the prototype kit by field tests. Kagiyama N, et al. **Jikken Dobutsu** 1990 Jan;39(1):89–96

Studies on the development of an ELISA kit for microbiological monitoring. 2. Improvement of the prototype ELISA kit with special references to mouse hepatitis virus antigen. Kagiyama N, et al. **Jikken Dobutsu** 1990 Jan;39(1):97–102

Enzyme-linked immunosorbent assay for determination of antibodies to xanthine oxidase. Ng YL, et al. **Med Lab Sci** 1990 Jan;47(1):30–5

The antigen-limited nature of microtiter ELISAs requires partial depletion of IgG to permit reliable determination of rabbit serum IgA antibody activity. Butler JE, et al. **Mol Immunol** 1990 Apr;27(4):319–25

The conformation-sensitive immunoassay: a membrane based ELISA system for identifying antibodies sensitive to alterations of protein conformation. Pfund WP, et al. **Mol Immunol** 1990 Jun;27(6):495–502

Solid phase assays for ANCA. Kallenberg CG, et al. **Neth J Med** 1990 Apr;36(3–4):132–6

Enzyme-linked immunosorbent assay for detection of staphylococcal enterotoxins in incriminated foods and clinical specimens from outbreaks of food poisoning. Shinagawa K, et al. **Nippon Juigaku Zasshi** 1990 Aug; 52(4):847–50

Two ELISAs to detect anti-neutrophil cytoplasm antibodies (ANCA) in various vasculitides. Savige JA, et al. **Pathology** 1989 Oct;21(4):282–7

Dot-immunobinding assay (DIBA) with integral Plasmodium falciparum as antigen in immuno-diagnosis of falciparum malaria. Wang J, et al. **Southeast Asian J Trop Med Public Health** 1989 Dec; 20(4):523–8

Immunological characterization of factor VIII inhibitors by a sensitive micro-ELISA method. Sánchez-Cuenca JM, et al. **Thromb Res** 1990 Mar 15;57(6):897–908

Finger-prick blood collection and computer-assisted enzyme-linked immunosorbent assay for large-scale serological studies on leprosy. Chanteau S, et al. **Trans R Soc Trop Med Hyg** 1989 May-Jun;83(3):414–6

Rapid and sensitive identification of human blood by an ELISA-ABC method using a biotinylated antibody against human HbA0. Tokiwa K, et al. **Z Rechtsmed** 1990; 103(5):329–34

[Chromogens in systems for immunoenzyme determination using horseradish peroxidase-labeled antibodies] Votruba T. **Cesk Epidemiol Mikrobiol Imunol** 1989 Sep; 38(5):292–303 (Eng. Abstr.) (Cze)

[Differentiation of M. tuberculosis and M. avium complex using various monoclonal antibodies] Wurche T, et al. **Pneumologie** 1990 Feb;44 Suppl 1:455–7 (Eng. Abstr.) (Ger)

[Terminal complement complex (TTC) levels in plasma and urine from glomerular diseases: enzyme-linked immunosorbent assay (ELISA) using monoclonal antibody against neoantigens of TCC] Kusunoki Y. **Hokkaido Igaku Zasshi** 1990 Jan;65(1):74–85 (Eng. Abstr.) (Jpn)

[Detection of Chlamydia trachomatis antigen for diagnosis of respiratory infection I. Cross reaction with bacteriae consisting normal flora respiratory tract] Yamazaki T, et al. **Kansenshogaku Zasshi** 1989 Oct;63(10):1195–200 (Eng. Abstr.) (Jpn)

[Specificity and sensitivity of HCV antibody test in non-A non-B hepatitis] Tango T, et al. **Nippon Rinsho** 1990 Jan; 48(1):33–8 (Jpn)

[Evaluation of the commercial ELISA method for lipoprotein(a) determination and interference by plasminogen] Abe A, et al. **Rinsho Byori** 1990 Jun; 38(6):722–7 (Eng. Abstr.) (Jpn)

[Assay of erythropoietin in plasma by enzyme-linked immunosorbent assay] Hara H, et al. **Rinsho Byori** 1989 Oct;37(10):1143–7 (Eng. Abstr.) (Jpn)

[The isolation of anti-carcinoembryonic antigen (CEA) immunoglobulins and their use in immunocytochemical and immunoenzyme (ELISA) technics] Niculescu F, et al. **Rev Ig [Bacteriol]** 1989 Jul-Sep;34(3):233–40 (Eng. Abstr.) (Rum)

[Diagnosis of IgA deficiency—a simple semiquantitative method] Pružinec P, et al. **Bratisl Lek Listy** 1990 Feb; 91(2):123–4 (Eng. Abstr.) (Slo)

[Detection of antibodies against human immunodeficiency virus type II using a third-generation ELISA (letter)] Soriano V, et al. **Med Clin (Barc)** 1989 Jul 1;93(5):196 (Spa)

[Immunoenzyme assay using micro Dot on nitrocellulose (Dot-ELISA) in the diagnosis of Chagas' disease. I. Comparative study of 2 antigenic preparations of Trypanosoma cruzi] De Hubach RM, et al. **Mem Inst Oswaldo Cruz** 1988 Jul-Sep;83(3):277–85 (Eng. Abstr.) (Spa)

[Use of formalinized epimastigotes for the detection of anti-Trypanosoma cruzi antibodies using immunoenzyme technics] Carbonetto CH, et al. **Rev Argent Microbiol** 1989 Apr-Jun;21(2):79–83 (Eng. Abstr.) (Spa)

STANDARDS

Efficacies of US Food and Drug Administration-licensed HIV-1-screening enzyme immunoassays for detecting antibodies to HIV-2. George JR, et al. **AIDS** 1990 Apr; 4(4):321–6

Epidemiologic assessment of screening tests for antibody to human T lymphotropic virus type I (HTLV-I). Khabbaz RF, et al. **Am J Public Health** 1990 Feb;80(2):190–2

Serologic tests for Lyme disease. Interlaboratory variability [see comments] Luger SW, et al. **Arch Intern Med** 1990 Apr;150(4):761–3 Comment in: Arch Intern Med 1990 Apr;150(4):732–3.

Application of theoretical considerations to the analysis of ELISA data. Peterman JH, et al. **Biotechniques** 1989 Jun; 7(6):608–15

Validity of enzyme-linked immunosorbent assays of cross-linked fibrin degradation products as a measure of clot lysis [see comments] Eisenberg PR, et al. **Circulation** 1990 Oct;82(4):1159–68 Comment in: Circulation 1990 Oct;82(4):1514–5.

Cardiolipin antibody assays [letter; comment] Peter JB. **Lancet** 1990 Jun 9;335(8702):1405 Comment on: Lancet 1990 Apr 7;335(8693):865.

Concluding remarks on solid phase assays. Rasmussen N, et al. **Neth J Med** 1990 Apr;36(3–4):143–5

STATISTICS & NUMERICAL DATA

Optimality assessment in the enzyme-linked immunosorbent assay (ELISA). Karpinski KF. **Biometrics** 1990 Jun; 46(2):381–90

VETERINARY

A modified ELISA for the detection of goats infected with Mycobacterium paratuberculosis. Milner AR, et al. **Aust Vet J** 1989 Sep;66(9):305–7

The relationship of egg yolk and serum antibody. I. Infectious bursal disease virus. Brown J, et al. **Avian Dis** 1989 Oct-Dec;33(4):654–6

Comparison of egg-yolk and serum antibody titers to four avian viruses by enzyme-linked immunosorbent assay using paired field samples. Silim A, et al. **Avian Dis** 1989 Oct-Dec;33(4):643–8

An ELISA for detecting pestivirus antigen in the blood of sheep persistently infected with border disease virus. Fenton A, et al. **J Virol Methods** 1990 Mar;27(3):253–60

Comparison of enzyme-linked immunosorbent and virus neutralization assays for the serology of reovirus infections in laboratory animals. Spijkers H, et al. **Lab Anim Sci** 1990 Mar;40(2):150–4

Enzyme-linked immunosorbent assay for evaluation of immunity in mice vaccinated with blackleg vaccine. Hamaoka T, et al. **Nippon Juigaku Zasshi** 1990 Feb; 52(1):167–70

Enzyme-linked immunosorbent assay for the serological survey of Getah virus in pigs. Hohdatsu T, et al. **Nippon Juigaku Zasshi** 1990 Aug;52(4):835–7

Diagnosis of Fasciola sp. infections in cattle by enzyme-linked immunosorbent assay. Itagaki T, et al. **Nippon Juigaku Zasshi** 1989 Aug;51(4):757–64

Enzyme-linked immunosorbent assay for the detection of infectious bronchitis virus (IBV) antigen with monoclonal antibody. Nagano H, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):657–9

Serodiagnosis of canine herpesvirus infection—development of an enzyme-linked immunosorbent assay and its comparison with two improved methods of serum neutralization test. Takumi A, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):241–50

Identification of a Theileria mutans-specific antigen for use in an antibody and antigen detection ELISA. Katende JM, et al. **Parasite Immunol** 1990 Jul;12(4):419–33

An antigen capture ELISA test using monoclonal antibodies for the detection of Mycoplasma californicum in milk. Ball HJ, et al. **Vet Immunol Immunopathol** 1990 Jul;25(3):269–78

Comparison of three serological tests for Brucella ovis infection of rams using different antigenic extracts. Marín CM, et al. **Vet Rec** 1989 Nov 11;125(20):504–8

[Inventory of the shedding of Chlamydia psittaci by parakeets in the Utrecht area using ELISA] Dorrestein GM, et al. **Tijdschr Diergeneeskd** 1989 Dec 15;114(24):1227–36 (Eng. Abstr.) (Dut)

ENZYME MAPPING, RESTRICTION see **RESTRICTION MAPPING**

ENZYME PRECURSORS

1H-n.m.r. studies of the isolated activation segment from pig procarboxypeptidase A. Vendrell J, et al. **Biochem J** 1990 Apr 1;267(1):213–20

Procarboxypeptidase A activation segment compared to structures of other proteins. Vendrell J, et al. **Protein Seq Data Anal** 1989 Dec;2(6):461–2

ANALYSIS

Partial amino acid sequence of human PMN leukocyte procollagenase. Knäuper V, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:295–304

The complements and immunoglobulins in different media of healthy pregnant women and in pregnant women with increased blood pressure. Rosić B, et al. **Clin Exp Obstet Gynecol** 1990;17(1):31–5

Immunogenetics of early-onset insulin-dependent diabetes mellitus among the Japanese: HLA, Gm, BF, GLO, and organ-specific autoantibodies—the J.D.S. study. Mimura G, et al. **Diabetes Res Clin Pract** 1990 Mar;8(3):253–62

HLA, C4, Bf, Gm and autoantibodies in rheumatoid arthritis. Warlow RS, et al. **Exp Clin Immunogenet** 1988; 5(2–3):133–42

Relationship of serum alpha-fetoprotein to circulating immune complexes and complements in patients with hepatitis B surface antigen-positive hepatocellular carcinoma. Tsai JF, et al. **Gastroenterol Jpn** 1990 Jun; 25(3):388–93

Identification of primary tumour site by immunolocalization of progastricsin in metastatic adenocarcinoma. Reid WA, et al. **J Pathol** 1990 Mar;160(3):203–7

ANTAGONISTS & INHIBITORS

Effect of N-methylation on the modulation by synthetic peptides of the activity of the complement-factor-B-derived serine proteinase CVFBb. Berkovich A, et al. **Biochem J** 1990 Sep 1;270(2):331–7

Inhibition of endotoxic lipopolysaccharide-mediated platelet aggregation by cobra venom anticomplementary factor. Fong JS, et al. **Blood** 1974 Sep;44(3):399–409

BIOSYNTHESIS

The effect of the anabolic steroid, stanozolol, on the production of procollagenase by human synovial and skin fibroblasts in vitro. Wright JK, et al. **Agents Actions** 1989 Nov;28(3–4):279–82

In vitro transport of ornithine carbamoyltransferase precursor into rat liver mitochondria using a more homologous medium. Miralles VJ, et al. **Arch Biochem Biophys** 1989 Nov 15;275(1):224–7

Relaxin modulates synthesis and secretion of procollagenase and collagen by human dermal fibroblasts. Unemori EN, et al. **J Biol Chem** 1990 Jun 25;265(18):10681–5

Induction of complement factor B activity in human fibroblasts by IL-6/IFN-beta 2 and IFN-gamma. Barash I, et al. **J Biol Regul Homeost Agents** 1989 Oct-Dec; 3(4):175–80

Relaxin stimulates the synthesis and release of prorenin from human decidual cells: evidence for autocrine/paracrine regulation. Poisner AM, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1765–7

Granular juxtaglomerular cells and prorenin synthesis in mice treated with enalapril. Berka JL, et al. **J Hypertens** 1990 Mar;8(3):229–38

Enhanced synthesis of factor B induced by tumor necrosis factor in human skin fibroblasts is decreased by IL-4. Katz Y, et al. **J Immunol** 1990 Jun 15;144(12):4675–80

Urokinase synthesis and binding by glomerular epithelial cells in culture. Rondeau E, et al. **Kidney Int** 1989 Oct; 36(4):593–600

Hormonal regulation of complement biosynthesis in human cell lines—II. Upregulation of the biosynthesis of complement components C3, factor B and C1 inhibitor by interleukin-6 and interleukin-1 in human hepatoma cell line. Falus A, et al. **Mol Immunol** 1990 Feb;27(2):197–201

BLOOD

The influence of delivery mode on biological inactive renin level in umbilical cord blood. Fujimura A, et al. **Am J Hypertens** 1990 Jan;3(1):23–6

Angiotensin II-producing enzyme III from acidified serum of nephrectomized dogs. Haas E, et al. **Am J Hypertens** 1989 Sep;2(9):696–707

Angiotensin II-producing enzyme III from acidified serum of nephrectomized dogs. Activation of proenzyme III to enzyme III by cathepsin G. Haas E, et al. **Am J Hypertens** 1989 Sep;2(9):708–14

New renin—angiotensin from plasma prorenin? Hare GM, et al. **Am J Hypertens** 1990 Mar;3(3):196–203

Raised plasma renin and prorenin in rheumatoid vasculitis. Boers M, et al. **Ann Rheum Dis** 1990 Jul;49(7):517–20

An unusual specificity in the activation of neutrophil serine proteinase zymogens. Salvesen G, et al. **Biochemistry** 1990 Jun 5;29(22):5304–8

Characterization and activation of procollagenase from human polymorphonuclear leucocytes. N-terminal sequence determination of the proenzyme and various proteolytically activated forms. Knäuper V, et al. **Eur J Biochem** 1990 Apr 30;189(2):295–300

C9 and factor B as acute phase proteins and their diagnostic and prognostic value in disease. Adinolfi M, et al. **Exp Clin Immunogenet** 1988;5(2–3):123–32 (19 ref.)

Human gelatinase/type IV procollagenase is a regular plasma component. Vartio T, et al. **FEBS Lett** 1989 Sep 25; 255(2):285–9

Effect of human mast cell tryptase on human plasma proenzymes. Harvima IT, et al. **Int Arch Allergy Appl Immunol** 1989;90(1):104–8

High plasma prorenin in diabetes mellitus and its correlation with some complications. Franken AA, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):1008–15

Circulating prorenin and renin in response to intravenous adrenocorticotrophic hormone in essential hypertension. Troffa C, et al. **J Hypertens Suppl** 1989 Dec;7(6):S226–7

Changes in plasma active renin and prorenin after endoscopic retrograde pancreatography. Higaki J, et al. **Methods Find Exp Clin Pharmacol** 1989 Nov;11(11):703–5

Comparison of plasma renin and prorenin in healthy infants and children as determined with an enzymatic method and a new direct immunoradiometric assay. Blazy I, et al.

Scand J Clin Lab Invest 1989 Sep;49(5):413–8
Pepsinogens A and C: purification from human gastric mucosa and determination in serum by optimized radioimmunoassays. Hengels KJ, et al. Z Gastroenterol 1989 Aug;27(8):406–11
[Roles of the kidney in activation and release of plasma inactive renin in the rat] Koaka J, et al. Nippon Naibunpi Gakkai Zasshi 1990 Jun 20;66(6):649–63 (Eng. Abstr.) (Jpn)

CEREBROSPINAL FLUID

Opioid and tachykinin peptides, and their precursors and precursor-processing enzymes, in human cerebrospinal fluid. Liu DX, et al. J Chromatogr 1990 Feb 2;500:395–412

GENETICS

Bf and C4 phenotypes in patients with psoriasis. Wyatt RJ, et al. Acta Derm Venereol Suppl (Stockh) 1989;146:211–3
Conversion to renin of exogenously administered recombinant human prorenin in liver and kidney of monkeys. Kim S, et al. Am J Physiol 1990 Mar;258(3 Pt 1):E451–8
Linkage of complement factor B gene to the bovine major histocompatibility complex. Teutsch MR, et al. Anim Genet 1989;20(4):427
Sequence of the precursor of bovine liver mitochondrial aldehyde dehydrogenase as determined from its cDNA, its gene, and its functionality. Guan KL, et al. Arch Biochem Biophys 1990 Mar;277(2):351–60
Presence of the cytosolic factor stimulating the import of precursor of mitochondrial proteins in rabbit reticulocytes and rat liver cells. Ono H, et al. Arch Biochem Biophys 1990 Mar;277(2):368–73
Mitochondrial NADH:ubiquinone reductase: complementary DNA sequence of the import precursor of the bovine 75-kDa subunit. Runswick MJ, et al. Biochemistry 1989 Nov 28;28(24):9452–9
Import into mitochondria of precursors containing hydrophobic passenger proteins: pretreatment of precursors with urea inhibits import. Law RH, et al. Biochim Biophys Acta 1990 Aug 24;1027(2):141–8
Effect of butyrate on the expression of the human preprourokinase gene introduced into Chinese hamster ovary cells. Okabayashi K, et al. Cell Struct Funct 1989 Oct;14(5):579–86
Mouse preproacrosin: cDNA sequence, primary structure and postmeiotic expression in spermatogenesis. Klemm U, et al. Differentiation 1990 Feb;42(3):160–6
Expression and refolding of recombinant human fibroblast procathepsin D. Conner GE, et al. DNA Cell Biol 1990 Jan–Feb;9(1):1–9
Co-expression of a precursor and the mature protein of wheat ribulose-1,5-bisphosphate carboxylase small subunit from a single gene in Escherichia coli. Kaderbhai MA, et al. DNA Cell Biol 1990 Jan–Feb;9(1):11–25
In vitro translation and processing of cathepsin B of Schistosoma mansoni. Felleisen R, et al. EMBO J 1990 Feb;9(2):371–7
Nucleotide sequence and exon-intron organization of the human proacrosin gene. Keime S, et al. Eur J Biochem 1990 May 31;190(1):195–200
DNA polymorphism of the C2 and factor B gene. Cross SJ, et al. Exp Clin Immunogenet 1990;7(1):53–63
Detection of a new BF F subtype variant by isoelectric focusing. Geserick G, et al. Exp Clin Immunogenet 1989; 6(2):156–61
Factor B subtypes in Japanese patients with IgA nephropathy and with idiopathic membranous nephropathy. Nishimukai H, et al. Exp Clin Immunogenet 1988;5(4):196–202
Expression of a deletion mutant of the prosegment of human prorenin in Chinese hamster ovary cells. Nagahama M, et al. FEBS Lett 1989 Dec 18;259(1):202–4
Effects of propeptide deletion on human renin secretion from mouse pituitary AtT-20 cells. Nagahama M, et al. FEBS Lett 1990 May 7;264(1):67–70
Prorenin is sorted into the regulated secretory pathway independent of its processing to renin in mouse pituitary AtT-20 cells. Nakayama K, et al. FEBS Lett 1989 Oct 23;257(1):89–92
The BF F subtypes are detectable in the Ba fragment of factor B. Siemens I, et al. Forensic Sci Int 1989 Aug; 42(3):279–86
A short N-proximal region of prochymosin inhibits the secretion of hybrid proteins from Escherichia coli. Little S, et al. Gene 1989 Nov 30;83(2):321–9
Completion of the primary structure of the human type IV collagenase preproenzyme and assignment of the gene (CLG4) to the q21 region of chromosome 16. Huhtala P, et al. Genomics 1990 Mar;6(3):554–9
Electrophoretic and isoelectric focusing studies in Brazilian Indians: data on four systems. Simões AL, et al. Hum Biol 1989 Jun;61(3):427–38
The gene encoding the human preproacrosin (ACR) maps to the q13–qter region on chromosome 22. Adham IM, et al. Hum Genet 1989 Dec;84(1):59–62
Molecular cloning of human preproacrosin cDNA. Adham IM, et al. Hum Genet 1990 Jan;84(2):125–8
Human BF*F-subtypes: segregation analysis with inclusion of MHC haplotypes. Geserick G, et al. Hum Genet 1989 Oct;83(3):252–6
A new complement factor B variant (BF S075) in Japanese. Nishimukai H, et al. Hum Hered 1990;40(1):58–60
Restriction fragment length polymorphism analysis of factor B and C2 genes in H-2 recombinant mouse strains. Lafuse WP, et al. Immunogenetics 1990;31(4):275–7
Complement C2, C3, C4 and factor B allele distribution in the Gipsy population in Hungary. Kramer J, et al. Immunol Lett 1990 Mar–Apr;24(1):11–2
Cloning and sequencing of a cDNA encoding the precursor to the 24 kDa iron-sulfur protein of human mitochondrial NADH dehydrogenase. Toda H, et al. Int J Biochem 1989; 21(10):1161–8
Molecular cloning and nucleotide sequence of cDNA encoding the entire precursor of rat mitochondrial acetoacetyl-CoA thiolase. Fukao T, et al. J Biochem (Tokyo) 1989 Aug;106(2):197–204
Site-directed mutagenesis of human prorenin. Substitution of three arginine residues in the propeptide with glutamine residues yields active prorenin. Yamauchi T, et al. J Biochem (Tokyo) 1990 Jan;107(1):27–31
Disruption of cytoskeletal structures results in the induction of the urokinase-type plasminogen activator gene expression. Botteri FM, et al. J Biol Chem 1990 Aug 5; 265(22):13327–34
Antiinflammatory effects of polypeptide growth factors. Platelet-derived growth factor, epidermal growth factor, and fibroblast growth factor inhibit the cytokine-induced expression of the alternative complement pathway activator factor B in human fibroblasts. Circolo A, et al. J Biol Chem 1990 Mar 25;265(9):5066–71
A synthetic presequence reversibly inhibits protein import into yeast mitochondria. Glaser SM, et al. J Biol Chem 1990 May 25;265(15):8808–16
Localization of a synthetic presequence that blocks protein import into mitochondria. Glaser SM, et al. J Biol Chem 1990 May 25;265(15):8817–22
The propeptide of beta-glucuronidase. Further evidence of its involvement in compartmentalization of beta-glucuronidase and sequence similarity with portions of the reactive site region of the serpin superfamily. Li H, et al. J Biol Chem 1990 Sep 5;265(25):14732–5
Characterization of human placental beta-hexosaminidase I2. Proteolytic processing intermediates of hexosaminidase A. Mahuran DJ. J Biol Chem 1990 Apr 25;265(12):6794–9
Unique precursor structure of an extracellular protease, aqualysin I, with NH2- and COOH-terminal pro-sequences and its processing in Escherichia coli. Terada I, et al. J Biol Chem 1990 Apr 25;265(12):6576–81
Secretion of functional papain precursor from insect cells. Requirement for N-glycosylation of the pro-region. Vernet T, et al. J Biol Chem 1990 Sep 25;265(27):16661–6
Premature translation termination of the pre-E1 alpha subunit of the branched chain alpha-ketoacid dehydrogenase as a cause of maple syrup urine disease in Polled Hereford calves. Zhang B, et al. J Biol Chem 1990 Feb 15; 265(5):2425–7
A Dictyostelium discoideum mutant that missorts and oversecretes lysosomal enzyme precursors is defective in endocytosis. Ebert DL, et al. J Cell Biol 1989 Oct;109(4 Pt 1):1445–56
The receptor for urokinase type plasminogen activator polarizes expression of the protease to the leading edge of migrating monocytes and promotes degradation of enzyme inhibitor complexes. Estreicher A, et al. J Cell Biol 1990 Aug;111(2):783–92
Plasminogen activators in tissue remodeling and invasion: mRNA localization in mouse ovaries and implanting embryos. Sappino AP, et al. J Cell Biol 1989 Nov; 109(5):2471–9
Yeast carboxypeptidase Y vacuolar targeting signal is defined by four propeptide amino acids. Valls LA, et al. J Cell Biol 1990 Aug;111(2):361–8
C4 and Bf phenotypes in black and Caucasian patients with childhood onset insulin dependent diabetes mellitus. Wang C, et al. J Clin Lab Immunol 1989 Dec;30(4):183–90
Interleukin-1 regulation of procollagenase mRNA and protein in periodontal fibroblasts in vitro. Richards D, et al. J Periodont Res 1990 Jul;25(4):222–9
Overexpression and hormonal regulation of pro-cathepsin D in mammary and endometrial cancer. Rochefort H, et al. J Steroid Biochem 1989;34(1–6):177–82
A BF subtype "Fb1" is a marker gene of some Mongoloid populations. Suzuki K, et al. Jinrui Idengaku Zasshi 1990 Jun;35(2):169–77
Mutant alcohol dehydrogenase (ADH III) presequences that affect both in vitro mitochondrial import and in vitro processing by the matrix protease. Mooney DT, et al. Mol Cell Biol 1990 Jun;10(6):2801–8
Role of vacuolar acidification in protein sorting and zymogen activation: a genetic analysis of the yeast vacuolar proton-translocating ATPase. Yamashiro CT, et al. Mol Cell Biol 1990 Jul;10(7):3737–49
Nucleotide sequence of human preprocathepsin H, a lysosomal cysteine proteinase. Fuchs R, et al. Nucleic Acids Res 1989 Nov 25;17(22):9471
Nucleotide sequence of a cDNA coding for mouse Ren1 preprorenin. Kim WS, et al. Nucleic Acids Res 1989 Nov 25;17(22):9480
Cloning of cDNA encoding the complete precursor for bovine seminal ribonuclease. Preuss KD, et al. Nucleic Acids Res 1990 Feb 25;18(4):1057
Complete primary structure of lamb preprochymosin deduced from cDNA. Pungerčar J, et al. Nucleic Acids Res 1990 Aug 11;18(15):4602
Nucleotide sequence of a full-length cDNA coding for the mitochondrial precursor protein of the beta-subunit of F1-ATPase from Neurospora crassa. Rassow J, et al. Nucleic Acids Res 1990 Aug 25;18(16):4922
Identification of an enzyme in human kidney that correctly processes prorenin. Shinagawa T, et al. Proc Natl Acad Sci U S A 1990 Mar;87(5):1927–31
The pro-peptide is not necessary for active renin secretion from transfected mammalian cells. Harrison TM, et al. Proteins 1989;5(4):259–65
Increases in levels of procollagenase mRNA in human fibroblasts induced by interleukin-1, tumor necrosis factor-alpha, or serum follow c-jun expression and are dependent on new protein synthesis. Conca W, et al. Trans Assoc Am Physicians 1989;102:195–203
Factor B subtyping in sera and bloodstains by isoelectric focusing and immunoblotting. Kido A, et al. Z Rechtsmed 1990;103(5):345–9

IMMUNOLOGY

Factor B activation products in patients with systemic lupus erythematosus. A marker of severe disease activity. Kerr LD, et al. Arthritis Rheum 1989 Nov;32(11):1406–13
Antigenic structure of human C1 esterase inhibitor, factor H and factor B. Bauer K. Exp Clin Immmunogenet 1986; 3(4):224–9
Characterization of monoclonal antibodies against human prorenin profragment and identification of active prorenins in plasma. Ishizuka Y, et al. J Biochem (Tokyo) 1989 Sep; 106(3):430–5

ISOLATION & PURIFICATION

Isolation and characterization of extracellular myeloperoxidase precursor in HL-60 cell cultures. Yamada M, et al. Biochem Biophys Res Commun 1990 Jan 30; 166(2):852–9
Is sperminogen a modified proacrosin? Isolation, purification, and partial characterization of low-molecular-mass boar proacrosin. Cechová D, et al. Biol Chem Hoppe Seyler 1990 Apr;371(4):317–23
Detection of prophospholipase A2 in human spermatozoa. Antaki P, et al. Biol Reprod 1989 Aug;41(2):241–6
Purification and characterization of cathepsin L from the white muscle of chum salmon, Oncorhynchus keta. Yamashita M, et al. Comp Biochem Physiol [B] 1990; 96(2):247–52
Studies on prophenoloxidase activation in the mosquito Aedes aegypti L. Ashida M, et al. Eur J Biochem 1990 Mar 30;188(3):507–15
Purification of mouse Ren 2 prorenin produced in Chinese hamster ovary cells. Hatsuzawa K, et al. J Biochem (Tokyo) 1990 Jun;107(6):854–7
The separation of pancreatic procarboxypeptidases by high-performance liquid chromatography and chromatofocusing. Burgos FJ, et al. J Chromatogr 1989 Nov 3;481:233–43

METABOLISM

Activation of human prorenin by lipidic constituents of the cell membrane. Glorioso N, et al. Am J Hypertens 1989 Dec;2(12 Pt 1):920–3
Immunohistochemical studies on the development of cells containing progastricsin (minor pepsinogen) in comparison to prochymosin and pepsinogen in bovine abomasal mucosa. Cybulski W, et al. Anat Rec 1990 Aug; 227(4):458–63
The prepro-peptide of Mucor rennin directs the secretion of human growth hormone by Saccharomyces cerevisiae. Hiramatsu R, et al. Appl Environ Microbiol 1990 Jul; 56(7):2125–32
Precursor-product relationship of larger to smaller molecular forms of the BAL 31 nuclease from Alteromonas espejiana: preferential removal of duplex exonuclease relative to endonuclease activity by proteolysis. Hauser CR, et al. Arch Biochem Biophys 1990 Feb 1;276(2):451–9
Role for the mitochondrial inner membrane in the maturation of the precursor to ornithine carbamyl transferase. Côté C, et al. Biochem Biophys Res Commun 1990 Aug 16; 170(3):1273–80
Polymerization of factor B of the alternative complement pathway via disulfide bond(s) in the presence of Cu2+ and stimulation by C3b, the major fragment of C3. Matsushita M, et al. Biochem Biophys Res Commun 1989 Nov 30;165(1):101–5
Augmented excretion of procathepsin L of a fos-transferred highly metastatic rat cell line. Taniguchi S, et al. Biochem Biophys Res Commun 1990 Apr 30;168(2):520–6
Mitochondrial translocation and processing of the precursor to the alpha-subunit of rat liver succinyl-CoA synthetase. Majumdar R, et al. Biochem Cell Biol 1990 Jan;68(1):292–9
Isolation of procathepsin D from mature cathepsin D by pepstatin affinity chromatography. Autocatalytic proteolysis of the zymogen form of the enzyme. Conner GE. Biochem J 1989 Oct 15;263(2):601–4
Glycosylation of procathepsin L does not account for species molecular-mass differences and is not required for proteolytic activity. Smith SM, et al. Biochem J 1989 Sep 15;262(3):931–8
A novel plasma factor that potentiates prophenoloxidase activation in the immune response of Blaberus discoidalis.

Javed Q, et al. **Biochem Soc Trans** 1990 Jun;18(3):457

Interaction of ram and boar proacrosin with 125I-fucoidan. Williams RM, et al. **Biochem Soc Trans** 1990 Jun; 18(3):496–7

The role of matrix metalloproteinase 3 in the stepwise activation of human rheumatoid synovial procollagenase. Suzuki K, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:305–10

A monoclonal antibody specific for two-chain urokinase-type plasminogen activator. Application to the study of the mechanism of clot lysis with single-chain urokinase-type plasminogen activator in plasma. Declerck PJ, et al. **Blood** 1990 May 1;75(9):1794–800

Procollagenase associated with the noncalcified matrix of bone and its regulation by parathyroid hormone. Jilka RL. **Bone** 1989;10(5):353–8

Does angiotensin regulate systemic conversion of prorenin to renin? Ioannou P, et al. **Clin Exp Hypertens [A]** 1989; 11(7):1273–300

Competition for binding sites on C3b by CR1, CR2, MCP, factor B and Factor H. Farries TC, et al. **Complement Inflamm** 1990;7(1):30–41

Expression of hemolytically active human complement component C1r proenzyme in insect cells using a baculovirus vector. Gál P, et al. **Complement Inflamm** 1989; 6(6):433–41

The reaction specificities of the thylakoidal processing peptidase and Escherichia coli leader peptidase are identical. Halpin C, et al. **EMBO J** 1989 Dec 1; 8(12):3917–21

The Escherichia coli heat shock proteins GroEL and GroES modulate the folding of the beta-lactamase precursor. Laminet AA, et al. **EMBO J** 1990 Jul;9(7):2315–9

Identification and quantification of renin and prorenin in the bovine eye. Deinum J, et al. **Endocrinology** 1990 Mar; 126(3):1673–82

Renin is sorted to the regulated secretory pathway in transfected PC12 cells by a mechanism which does not require expression of the pro-peptide. Chidgey MA, et al. **Eur J Biochem** 1990 May 31;190(1):139–44

Interaction of urokinase A chain with the receptor of human keratinocytes stimulates release of urokinase-like plasminogen activator. Fibbi G, et al. **Exp Cell Res** 1990 Mar;187(1):33–8

Serine phosphorylation of biosynthetic pro-urokinase from human tumor cells. Mastronicola MR, et al. **FEBS Lett** 1990 Jun 18;266(1-2):109–14

Further studies on the human pancreatic binary complexes involving procarboxypeptidase A. Moulard M, et al. **FEBS Lett** 1990 Feb 12;261(1):179–83

Prochymosin activation by non-aspartic proteinases. Stepanov VM, et al. **FEBS Lett** 1990 Jan 29;260(2):173–5

Proteinic prorenin-releasing-stimulator (PRS) in the rat submandibular gland. Suzuki F, et al. **FEBS Lett** 1989 Oct 9;256(1-2):47–50

Zona pellucida induces conversion of proacrosin to acrosin. Töpfer-Petersen E, et al. **Int J Androl** 1990 Jun;13(3):190–6

In vitro interactions of calmodulin with the ovine proacrosin-acrosin system. Frenette G, et al. **J Androl** 1990 Jan-Feb;11(1):25–31

N-terminal half of a mitochondrial presequence peptide takes a helical conformation when bound to dodecylphosphocholine micelles: a proton nuclear magnetic resonance study. Endo T, et al. **J Biochem (Tokyo)** 1989 Sep;106(3):396–400

The active site of membrane-bound meizothrombin. A fluorescence determination of its distance from the phospholipid surface and its conformational sensitivity to calcium and factor Va. Armstrong SA, et al. **J Biol Chem** 1990 Apr 15;265(11):6210–8

Interaction of single-chain urokinase-type plasminogen activator with human endothelial cells. Barnathan ES, et al. **J Biol Chem** 1990 Feb 15;265(5):2865–72

Studies of the role of factor Va in the factor Xa-catalyzed activation of prothrombin, fragment 1.2-prethrombin-2, and dansyl-L-glutamyl-glycyl-L-arginine-meizothrombin in the absence of phospholipid. Boskovic DS, et al. **J Biol Chem** 1990 Jun 25;265(18):10497–505

Multiple active forms of thrombin. IV. Relative activities of meizothrombins. Doyle MF, et al. **J Biol Chem** 1990 Jun 25;265(18):10693–701

Inhibition of receptor-bound urokinase by plasminogen-activator inhibitors. Ellis V, et al. **J Biol Chem** 1990 Jun 15;265(17):9904–8

Spectrofluorimetric investigation of the interactions between the subunits of bovine pancreatic procarboxypeptidase A-S6. Granon S, et al. **J Biol Chem** 1990 Jun 25; 265(18):10383–8

A processing enzyme for prorenin in mouse submandibular gland. Purification and characterization. Kim WS, et al. **J Biol Chem** 1990 Apr 15;265(11):5930–3

Protein determinants impair recognition of procathepsin L phosphorylated oligosaccharides by the cation-independent mannose 6-phosphate receptor. Lazzarino D, et al. **J Biol Chem** 1990 Jul 15; 265(20):11864–71

Plasminogen activation with single-chain urokinase-type plasminogen activator (scu-PA). Studies with active site mutagenized plasminogen (Ser740——Ala) and plasmin-resistant scu-PA (Lys158——Glu). Lijnen HR, et al. **J Biol Chem** 1990 Mar 25;265(9):5232–6

An amino-terminal signal sequence abrogates the intrinsic membrane-targeting information of mitochondrial uncoupling protein. Liu XQ, et al. **J Biol Chem** 1990 Jan 5;265(1):9–12

Site of pyruvate formation and processing of mammalian S-adenosylmethionine decarboxylase proenzyme. Stanley BA, et al. **J Biol Chem** 1989 Dec 15;264(35):21073–9

The tryptic activation pathway of monomeric procarboxypeptidase A. Vendrell J, et al. **J Biol Chem** 1990 Apr 25;265(12):6949–53

A specific interaction in vitro between pancreatic zymogen granules and plasma membranes: stimulation by G-protein activators but not by Ca2+. Nadin CY, et al. **J Cell Biol** 1989 Dec;109(6 Pt 1):2801–8

Translocation arrest by reversible folding of a precursor protein imported into mitochondria. A means to quantitate translocation contact sites. Rassow J, et al. **J Cell Biol** 1989 Oct;109(4 Pt 1):1421–8

Synovial procollagenase activation by human mast cell tryptase dependence upon matrix metalloproteinase 3 activation. Gruber BL, et al. **J Clin Invest** 1989 Nov; 84(5):1657–62

Pancreatic duct obstruction in rabbits causes digestive zymogen and lysosomal enzyme colocalization. Saluja A, et al. **J Clin Invest** 1989 Oct;84(4):1260–6

Immunocytochemical localization of prorenin, renin, and cathepsins B, H, and L in juxtaglomerular cells of rat kidney. Matsuba H, et al. **J Histochem Cytochem** 1989 Nov; 37(11):1689–97

Pro-subtilisin E: purification and characterization of its autoprocessing to active subtilisin E in vitro. Ohta Y, et al. **Mol Microbiol** 1990 Feb;4(2):295–304

Proacrosin activation and acrosin release during the guinea pig acrosome reaction. Nuzzo NA, et al. **Mol Reprod Dev** 1990 Jan;25(1):52–60

Secretagogue and second messenger-activated Cl- permeabilities in isolated pancreatic zymogen granules. Fuller CM, et al. **Pflugers Arch** 1989 Oct;415(1):29–36

Prourokinase activation on the surface of human rhabdomyosarcoma cells: localization and inactivation of newly formed urokinase-type plasminogen activator by recombinant class 2 plasminogen activator inhibitor. Pöllänen J, et al. **Proc Natl Acad Sci U S A** 1990 Mar; 87(6):2230–4

[Possible activation of human prorenin by contact with the cell membrane] Troffa C, et al. **Boll Soc Ital Biol Sper** 1989 Nov;65(11):1017–23 (Eng. Abstr.) **(Ita)**

[Release mechanisms of inactive renin from rat renal cortical slices: role of the submandibular gland] Goi R, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Jul 20;66(7):665–77 (Eng. Abstr.) **(Jpn)**

[Gene structure and gene expression regulation of renin and angiotensinogen and processing of the precursors] Kim S, et al. **Nippon Rinsho** 1989 Oct;47(10):2265–70 **(Jpn)**

PHARMACOLOGY

Infusion of recombinant human prorenin into rhesus monkeys. Effects on hemodynamics, renin-angiotensin-aldosterone axis and plasma testosterone. Lenz T, et al. **Am J Hypertens** 1990 Apr;3(4):257–61

The Ba fragment of complement factor B inhibits human B lymphocyte proliferation. Ambrus JL Jr, et al. **J Immunol** 1990 Mar 1;144(5):1549–53

PHYSIOLOGY

Vitamin K-dependent carboxylase: influence of the "propeptide" region on enzyme activity. Cheung A, et al. **Arch Biochem Biophys** 1989 Nov 1;274(2):574–81

Membrane-associated cathepsin L: a role in metastasis of melanomas [published erratum appears in Biochem Biophys Res Commun 1989 Dec 29;165(3):1444] Rozhin J, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):556–61

SECRETION

[Role of the submandibular glands in in vivo mechanisms of plasma inactive renin release in the rat] Dodo S, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 May 20;66(5):529–42 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Coronary reperfusion studies with pro-urokinase in acute myocardial infarction: evidence for synergism of low dose urokinase. Kasper W, et al. **J Am Coll Cardiol** 1990 Sep; 16(3):733–8

[A double-blind comparative study of intracoronary administration of GE-0943 and urokinase: multicenter study] Kambara H, et al. **Kokyu To Junkan** 1989 Jul; 37(7):749–56 (Eng. Abstr.) **(Jpn)**

ENZYME REACTIVATORS

Denaturation-renaturation of the fibrin-stabilizing factor XIII a-chain isolated from human placenta. Properties of the native and reconstituted protein. Rinas U, et al. **Biol Chem Hoppe Seyler** 1990 Jan;371(1):49–56

Reactivation of 3-phosphoglycerate kinase from its unfolded proteolytic fragments. Vas M, et al. **Eur J Biochem** 1990 May 20;189(3):575–9

ENZYME REPRESSION

Translational repression of TEM beta-lactamase synthesis as a response of Escherichia coli to heat shock. Kuriki Y. **Mol Microbiol** 1989 Aug;3(8):1131–40

ENZYME STABILITY

see related
ENZYMES, IMMOBILIZED

DRUG EFFECTS

Stability and kinetic behaviour of some enzymes in surfactant environment. Rao YK, et al. **Indian J Biochem Biophys** 1989 Dec;26(6):390–3

ENZYME TESTS

The pancreatic enzymes value in the diagnosis of acute pancreatitis and acute biliary tract diseases. Parodi HC, et al. **Acta Gastroenterol Latinoam** 1989;19(3):123–9

A comparison among quantitative, dye reduction and fluorescent spot tests for G-6-PD deficiency. Tsao LY, et al. **Acta Paediatr Sin** 1988 Nov-Dec;29(6):371–5

Evaluation of mAST/tAST ratio as a marker of alcohol misuse in a non-selected population. Nalpas B, et al. **Alcohol Alcohol** 1989;24(5):415–9

Atypical creatine kinase MB isozyme in an elderly patient without evidence of myocardial infarction or underlying malignancy. Streiff MB, et al. **Am Heart J** 1990 Mar;119(3 Pt 1):693–4

Rapid enzyme measurements in patients with suspected acute myocardial infarction [letter; comment] Kimmelstiel C, et al. **Am J Cardiol** 1989 Oct 1;64(12):834 Comment on: Am J Cardiol 1989 Mar 15;63(11):652–5.

Evaluating tests for acute pancreatitis. Agarwal N, et al. **Am J Gastroenterol** 1990 Apr;85(4):356–66 (77 ref.)

Value of adenosine deaminase estimation in the diagnosis of tuberculous ascites. Dwivedi M, et al. **Am J Gastroenterol** 1990 Sep;85(9):1123–5

Isolated aspartate aminotransferase elevation due to macroenzyme formation with liver biopsy correlation. Foust RT, et al. **Am J Gastroenterol** 1990 Jan;85(1):88–90

The leukocyte esterase test for detection of cerebrospinal fluid leukocytosis and bacterial meningitis. DeLozier JS, et al. **Ann Emerg Med** 1989 Nov;18(11):1191–8

Acute pancreatitis and normoamylasemia. Not an uncommon combination. Clavien PA, et al. **Ann Surg** 1989 Nov; 210(5):614–20

Serum enzyme levels during intestinal ischemia. Thompson JS, et al. **Ann Surg** 1990 Mar;211(3):369–73

Alpha 1-antitrypsin: a possible tool for diagnosis of cervical cancer. Bhattacharyya J, et al. **Biochem Med Metab Biol** 1990 Jun;43(3):243–5

Serum enzymes and other laboratory tests in acute pancreatitis. Clavien PA, et al. **Br J Surg** 1989 Dec; 76(12):1234–43 (174 ref.)

Comments on "Quantification of myocardial infarct size after coronary reperfusion by serum cardiac myosin light chain II in conscious dogs" [letter] Hermens WT. **Circ Res** 1990 Sep;67(3):784–5

Complete recovery in plasma of enzymes lost from the heart after permanent coronary artery occlusion in the dog [see comments] Hermens WT, et al. **Circulation** 1990 Feb; 81(2):649–59 Comment in: Circulation 1990 Feb;81(2):707–10.

Enzymatic estimation of infarct size. Thrombolysis induced its demise: will it now rekindle its renaissance? [comment] Roberts R. **Circulation** 1990 Feb;81(2):707–10 Comment on: Circulation 1990 Feb;81(2):649–59.

Measurement of lysozyme in human body fluids: comparison of various enzyme immunoassay techniques and their diagnostic application. Porstmann B, et al. **Clin Biochem** 1989 Oct;22(5):349–55

Comparative evaluation of the diagnosis of acute pancreatitis based on serum and urine enzyme assays. Gwozdz GP, et al. **Clin Chim Acta** 1990 Mar 15;187(3):243–54

Low value of adenosine deaminase in tuberculous pleural effusions. Querol JM, et al. **Eur Respir J** 1990 May; 3(5):586–7

High-risk pregnancies and amniotic fluid isoamylase activity. Goepel E, et al. **Gynecol Obstet Invest** 1990;29(4):263–8

Myocardial contusion without creatine kinase—MB elevation. Unkle DW, et al. **Heart Lung** 1989 Nov; 18(6):539–41

Use of enzyme histochemistry in the diagnosis of pancreatoblastoma. Cooper JE, et al. **Histopathology** 1989 Oct;15(4):407–14

Immunochemical quantification of Cu/Zn superoxide dismutase in prenatal diagnosis of Down's syndrome. Porstmann T, et al. **Hum Genet** 1990 Aug;85(3):362–6

Immunodiagnosis of Schistosomiasis mansoni with APIA (alkaline phosphatase immunoassay). Pujol FH, et al. **Immunol Invest** 1989 Nov-Dec;18(9-10):1071–80

Enzymatic assay of urinary formic acid as an index of methanol exposure. Ogata M, et al. **Ind Health** 1989; 27(3):125–9

Immunological determination of porphobilinogen deaminase as a diagnostic measure in acute intermittent porphyria. Lannfelt L. **J Clin Chem Clin Biochem** 1990 May; 28(5):273–8

Neuron-specific enolase immunoreactivity in rat and mouse phaeochromocytomas. Wright JA, et al. **J Comp Pathol** 1990 May;102(4):475–8

Comparative value of glutamic oxaloacetic transaminase and

lactic dehydrogenase enzyme pattern in serum and cerebrospinal fluid in acute cerebrovascular accidents. Shukla RP, et al. **J Indian Med Assoc** 1989 Oct;87(10):231–3

Chorionic villus sampling: diagnostic uses and limitations of enzyme assays. Fewler B, et al. **J Inherited Metab Dis** 1989; 12 Suppl 1:105–17

Use of serum gamma glutamyl transpeptidase to differentiate between extrahepatic biliary atresia and neonatal hepatitis. Vajaradul C, et al. **J Med Assoc Thai** 1989 Jul;72(7):395–9

The predictive value of serum enzymes for perioperative myocardial infarction after cardiac operations. An autopsy study. Van Lente F, et al. **J Thorac Cardiovasc Surg** 1989 Nov;98(5 Pt 1):704–10

What's up with the enzymes? [editorial] [see comments] **Lancet** 1990 Jan 20;335(8682):140–1 Comment in: Lancet 1990 Mar 10;335(8689):601–2.

Effect of various anti-ulcer drugs on rapid urease test for Campylobacter pylori infection [letter] [published erratum appears in Lancet 1990 Jan 20;335(8682):180] Bhasin DK, et al. **Lancet** 1989 Oct 14;2(8668):918–9

Alanine aminotransferase screening and hepatitis C virus antibody [letter] Burckhardt JJ, et al. **Lancet** 1990 Aug 18;336(8712):447–8

Limitations of serum creatine kinase assay in diagnosis of acute myocardial infarction [letter] Doran GR, et al. **Lancet** 1990 Sep 15;336(8716):697

Terminal deoxynucleotidyl transferase positive subpopulations occur in the majority of ANLL: implications for the detection of minimal disease. Adriaansen HJ, et al. **Leukemia** 1990 Jun;4(6):404–10

A combination of raised serum AST:ALT ratio and erythrocyte mean cell volume level detects excessive alcohol consumption. Kawachi I, et al. **N Z Med J** 1990 Apr 11;103(887):145–8

The serum creatine-kinase as a biologic marker in major depression. **Bălăiță C, et al. Neurol Psychiatr (Bucur)** 1990 Apr–Jun;28(2):127–34

False-positive acetylcholinesterase with early amniocentesis. Burton BK, et al. **Obstet Gynecol** 1989 Oct;74(4):607–10

Diagnostic problem caused by an atypical creatine kinase isoenzyme in a patient with myocardial infarction. Campbell BG, et al. **Pathology** 1990 Jan;22(1):45–8

Elevated liver transaminase levels in children with blunt abdominal trauma: a predictor of liver injury. Hennes HM, et al. **Pediatrics** 1990 Jul;86(1):87–90

Use of biochemical tests for myocardial infarction in the county of Västernorrland, a clinical chemistry routine for the diagnosis of myocardial infarction. Hamfelt A, et al. **Scand J Clin Lab Invest Suppl** 1990;200:20–5

Rapid diagnosis of pertussis. Confer DL, et al. **Scand J Infect Dis** 1990;22(2):175–7

Receiver operator characteristic (ROC) curves and non-normal data: an empirical study. Goddard MJ, et al. **Stat Med** 1990 Mar;9(3):325–37

Serum macro creatine kinase type 2 as a tumor marker in lung cancer: comparison with carcinoembryonic antigen. Lee YC, et al. **Taiwan I Hsueh Hui Tsa Chih** 1990 Feb; 89(2):104–9

Thrombin–antithrombin III complexes in the prediction of deep vein thrombosis following total hip replacement. Hoek JA, et al. **Thromb Haemost** 1989 Dec 29;62(4):1050–2

Creatine kinase–BB activity in malignant tumors and in sera from patients with malignant diseases. Roguljić A, et al. **Tumori** 1989 Dec 31;75(6):537–41

[Interrelation between the enzyme activity indices and the status of the uterine–placental blood flow in pregnant women at high risk for perinatal pathology] Arnaudov D, et al. **Akush Ginekol (Sofiia)** 1989;28(4):10–5 (Eng. Abstr.) (Bul)

[An analysis of the correlation between the indices of uterine–placental blood flow and the blood enzymes in pregnant women with high perinatal risk] Arnaudov D, et al. **Akush Ginekol (Sofiia)** 1989;28(3):5–12 (Eng. Abstr.) (Bul)

[Alkaline phosphatase in the leukocytes of pregnant women with pre–eclampsia] Pekhlivanov B, et al. **Akush Ginekol (Sofiia)** 1990;29(1):17–20 (Eng. Abstr.) (Bul)

[Enzyme activity in the blood serum and lymphocytes of patients with chronic salpingo–oophoritis combined with benign tumors of the genitalia] Radev R, et al. **Akush Ginekol (Sofiia)** 1989;28(5):49–53 (Eng. Abstr.) (Bul)

[A preliminary study on serum alpha–L–fucosidase assay in the diagnosis of hepatocellular carcinoma] Shen W, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jul;28(7):397–9, 442–3 (Eng. Abstr.) (Chi)

[Diagnostic significance of the determination of serum alpha–L–fucosidase in primary hepatocellular carcinoma] Yu ZW, et al. **Chung Hua Nei Ko Tsa Chih** 1989 Jul; 28(7):394–6, 442 (Eng. Abstr.) (Chi)

[Significance of the lactate dehydrogenase level in aqueous humor in the diagnosis of retinoblastoma] Wang CY. **Chung Hua Yen Ko Tsa Chih** 1989 Sep;25(5):289–91 (Eng. Abstr.) (Chi)

[Detection of hepatic metastasis of digestive cancers. Value of enzyme assays and ultrasonography] Molkhou JM, et al. **Presse Med** 1989 Sep 16;18(28):1370–4 (Eng. Abstr.) (Fre)

[Single photon emission myocardial tomoscintigraphy (SPECT) in the evaluation of the extension of the infarct area. Correlation with enzymatic, electrocardiographic and angiocardioscintigraphic data] Tartagni F, et al. **Ann Ital Med Int** 1987 Apr–Jun;2(2):110–7 (Eng. Abstr.) (Ita)

[Behavior of alkaline phosphatase isoenzymes in liver diseases] Francioni S, et al. **Minerva Dietol Gastroenterol** 1990 Jan–Mar;36(1):23–5 (Eng. Abstr.) (Ita)

[Cardiac enzymes in acute cerebrovascular diseases: their behavior in relation to ECG] Lovreglio V, et al. **Minerva Med** 1989 Sep;80(9):1003–10 (Eng. Abstr.) (Ita)

[A comparison between the urinary and serum NAG activity in subjects with chronic nephropathies and essential arterial hypertension] Persichetti S, et al. **Minerva Med** 1990 Apr; 81(4):265–70 (Eng. Abstr.) (Ita)

[Urinary excretion of glycine.prolile dipeptidile aminopeptidase, N–acetyl–beta–D–glucosaminidase, alanine aminopeptidase and low molecular protein in patients with renal cell carcinoma] Kitamura Y, et al. **Hinyokika Kiyo** 1990 May;36(5):535–9 (Eng. Abstr.) (Jpn)

[Characteristics of gamma glutamyl transferase in melanoma] Yonemoto K, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Oct;99(11):1139–44 (Eng. Abstr.) (Jpn)

[Usefulness of serum adenosine deaminase activity in the early diagnosis of Mycoplasma pneumonia] Suga M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1989 Apr;27(4):461–6 (Eng. Abstr.) (Jpn)

[Biochemical progress for the diagnosis of acute pancreatitis] Nakano S. **Nippon Rinsho** 1990 Jan;48(1):79–84 (Jpn)

[Clinical significance of aspartate aminotransferase isoenzyme analysis in biochemical laboratory tests] Teranishi H, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:201–4 (Jpn)

[Role of manganese superoxide dismutase in ovarian carcinoma] Ishikawa M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1990 Apr;42(4):363–4 (Jpn)

[Diagnostic value of neuron specific enolase (NSE) in the cerebrospinal fluid of malignant brain tumor with intrathecal metastasis] Miyagami M, et al. **No To Shinkei** 1989 Oct;41(10):1021–7 (Eng. Abstr.) (Jpn)

[Intracellular alkaline phosphatase activities in myelodysplastic syndrome] Kabutomori O, et al. **Rinsho Byori** 1990 Mar;38(3):328–9 (Eng. Abstr.) (Jpn)

[Inflammatory reaction and laboratory tests: granulocyte elastase] Sakurabayashi I, et al. **Rinsho Byori** 1990 Mar; 38(3):267–71 (12 ref.) (Eng. Abstr.) (Jpn)

[Determination of CSF guanase activity in multiple sclerosis: a comparative study on various parameters to monitor the disease activity] Kaneshige Y, et al. **Rinsho Shinkeigaku** 1989 Jul;29(7):854–8 (Eng. Abstr.) (Jpn)

[Studies of lysozyme activity in the saliva of workers in the drug industry] Zajączkowska–Białowąs L, et al. **Med Pr** 1989;40(5):321–7 (Eng. Abstr.) (Pol)

[Changes in acid hydrolase activity in white blood cells as an indicator of occupational exposure to mercury vapors] Moszczyński P Jr, et al. **Wiad Lek** 1989 Jun 1;42(11):734–8 (Eng. Abstr.) (Pol)

[A comparative study of plasma converting enzyme and renin in sarcoidosis] Hăulică I, et al. **Rev Ig [Pneumoftiziol]** 1989 Jul–Sep;38(3):265–70 (Eng. Abstr.) (Rum)

[Serum enzyme tests in the diagnosis and follow–up of the evolution of sarcoidosis] Păunescu E, et al. **Rev Ig [Pneumoftiziol]** 1989 Jul–Sep;38(3):253–8 (Eng. Abstr.) (Rum)

[Biological markers in the accurate diagnosis of chronic alcohol intoxication. The significance of gamma–glutamyl transpeptidase] Boişteanu P, et al. **Rev Med Chir Soc Med Nat Iasi** 1989 Jul–Sep;93(3):491–6 (Eng. Abstr.) (Rum)

[Enzymatic aspects of severely acute diarrheal disease in infants] Lupu V, et al. **Rev Pediatr Obstet Ginecol [Pediatr]** 1989 Apr–Jun; 38(2):173–80 (Eng. Abstr.) (Rum)

[Clinical value of the assessment of creatine kinase BB isoenzyme activity in newborn infants with hypoxic–ischemic lesions of the brain] Atakhanova MT, et al. **Akush Ginekol (Mosk)** 1990 Jan;(1):65–7 (Rus)

[Elastase and acid phosphatase activity in bronchoalveolar lavage fluid during chronic bronchitis] Drozhennikov VA, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):130–2 (Eng. Abstr.) (Rus)

[Clinical value of determining the activity of elastase– and chymotrypsin–like proteinases in the plasma of patients with nonspecific aortoarteritis and arteriosclerosis] Parfenkova GA, et al. **Kardiologiia** 1989 Sep;29(9):94–6 (Rus)

[Laboratory diagnosis of visceral disorders in alcoholism] Staroverov AT, et al. **Klin Med (Mosk)** 1990 Jan; 68(1):26–35 (49 ref.) (Rus)

[The lactate dehydrogenase isoenzyme spectrum and total activity as a prognostic sign in the radiation treatment of esophageal cancer] Kupriianov SN, et al. **Med Radiol (Mosk)** 1989 Dec;34(12):50–1 (Rus)

[Glycosidase activity of the tears in patients with ophthalmic herpes] Terekhina NA, et al. **Oftalmol Zh** 1989;(3):184–7 (Eng. Abstr.) (Rus)

[Role of lysosomal enzymes and free oxyproline in the diagnosis and evaluation of the effectiveness of treatment of bronchial asthma in children] Ermak IS, et al. **Pediatriia** 1989;(10):109–10 (Rus)

[The determination of the creatine kinase content of the blood in patients with nonspecific ulcerative colitis as a supplementary diagnostic test] Chuvaev IV, et al. **Ter Arkh** 1990;62(2):68–9 (Eng. Abstr.) (Rus)

[The diagnostic information value of determining the cytochemical properties of the neutrophils from the blood and synovial fluid of patients with rheumatoid arthritis and osteoarthrosis deformans] Ionov AIu, et al. **Ter Arkh** 1990; 62(5):51–5 (Eng. Abstr.) (Rus)

[Enzymologic characteristics of the course of brain edema in patients with meningococcal meningoencephalitis] Radzivil GG, et al. **Ter Arkh** 1989;61(11):18–23 (Rus)

[The diagnostic importance of research on the lysyl oxidase activity in children with circumscribed scleroderma] Kudrin VI, et al. **Vestn Dermatol Venerol** 1990;(5):14–6 (Eng. Abstr.) (Rus)

[The significance of trypsin, amylase and lipase activities in the blood serum for the differential,diagnosis of chronic pancreatitis and other diseases of the abdominal organs] Geller LI, et al. **Vrach Delo** 1990 Mar;(3):86–8 (Eng. Abstr.) (Rus)

[The enzyme activity and thymol test of the blood serum in cironic alcoholics] Kharchenko NK, et al. **Vrach Delo** 1989 Sep;(9):67–9 (Eng. Abstr.) (Rus)

[Cytochrome oxidase activity of peripheral blood leukocytes in patients with diffuse toxic goiter] Podil'chak MD, et al. **Vrach Delo** 1990 Jan;(1):36–7 (Eng. Abstr.) (Rus)

[The enzymatic activity of transmembrane ion transport in the early stages of hypertension] Shafer MZh, et al. **Vrach Delo** 1990 Jun;(6):17–9 (Eng. Abstr.) (Rus)

[Characteristics of the hepatogram in cases of chronic alcoholism] Krstajić N, et al. **Med Arh** 1984;38(4):181–3 (Eng. Abstr.) (Scr)

[High amylase concentrations in malignant pleural effusions: is the incidence overestimated? (letter)] Romero S, et al. **Med Clin (Barc)** 1989 Dec 2;93(18):716–7 (Spa)

METHODS

Total phospholipid choline concentration of amniotic fluid in the assessment of foetal gestational and lung maturity. I. Establishment of a direct enzymic method. Ogunkeye OO, et al. **Afr J Med Med Sci** 1990 Mar;19(1):23–7

Total phospholipid choline concentration of amniotic fluid in the assessment of foetal gestational and lung maturity. II. Correlation study. Ogunkeye OO, et al. **Afr J Med Med Sci** 1990 Mar;19(1):29–31

Measurement and demonstration of lactase and sucrase activities in jejunal mucosa. Banai J, et al. **Am J Gastroenterol** 1990 Feb;85(2):157–60

A colorimetric method for the enzymatic analysis of gases: the determination of ethanol and formaldehyde vapors using solid alcohol oxidase. Barzana E, et al. **Anal Biochem** 1989 Oct;182(1):109–15

International Federation of Clinical Chemistry Scientific Division. Committee on enzymes. IFCC methods for the measurement of catalytic concentration of enzymes, Part 7. IFCC method for creatine kinase (ATP: creatine N–phosphotransferase, EC 2.7.3.2. IFCC recommendation). **Ann Biol Clin (Paris)** 1990;48(3):185–202

Experiences with a new assay for pancreas specific alpha–amylase. Steen G, et al. **Ann Biol Clin (Paris)** 1990; 48(2):91–7 (30 ref.)

Serum enzymes and other laboratory tests in acute pancreatitis [letter] Neoptolemos JP, et al. **Br J Surg** 1990 Jun;77(6):715–6

Enzyme cytochemistry of unfixed leukocytes and bone marrow cells using polyvinyl alcohol for the diagnosis of leukemia. Van Noorden CJ, et al. **Histochemistry** 1989; 92(4):313–8

Evaluation of enzyme immunoassays using purified protein derivative (PPD) and its pooled fractions 3 and 4 for diagnosis of pulmonary tuberculosis. Kapur J, et al. **Indian J Chest Dis Allied Sci** 1989 Jan–Mar;31(1):25–32

Diagnosis of acute myocardial infarction from sequential enzyme measurements obtained within 12 hours of admission to hospital. Collinson PO, et al. **J Clin Pathol** 1989 Nov;42(11):1126–31

Carrier detection for Sanfilippo A syndrome. Stone J, et al. **J Inherited Metab Dis** 1990;13(2):184–6

A simple, combined fluorogenic and chromogenic method for the assay of proteases in gingival crevicular fluid. Cox SW, et al. **J Periodont Res** 1990 May;25(3):164–71

X–ray film digestion: a semi–quantitative assay for proteolytic enzymes used in immunohaematology. Giles JM, et al. **Med Lab Sci** 1990 Jul;47(3):195–8

Prenatal diagnosis of Morquio disease type A using a simple fluorometric enzyme assay. Zhao H, et al. **Prenat Diagn** 1990 Feb;10(2):85–91

[A method for demonstrating leukocyte enzyme activity in the oral cavity in relation to the periodontal findings. A preliminary report] Wiezorreck P. **Zahn Mund Kieferheilkd** 1990;78(2):113–7 (Eng. Abstr.) (Ger)

[Studies on method for electrophoresis of creatine kinase (CK) MB sub–bands and its clinical application] Takahashi S, et al. **Rinsho Byori** 1989 Oct;37(10):1134–8 (Eng. Abstr.) (Jpn)

[Determining cathepsin D activity in the blood serum using denatured hemoglobin as a substrate] Michalak S, et al. **Rocz Akad Med Bialymstoku** 1986–87;31–32:83–91 (Eng. Abstr.) (Pol)

[Lactate dehydrogenase in the esophageal mucosa of patients with different types of esophagitis] Bazarova RI, et al.

Lab Delo 1990;(1):20–2 (Eng. Abstr.) (Rus)
[The tuberculin–transamidinase test—a new method for the diagnosis of renal tuberculosis] Mochalova TP, et al. Probl Tuberk 1989;(11):3–6 (Eng. Abstr.) (Rus)
[Urinary enzymes as a marker of the preclinical stage of diabetic nephropathy] Dedov II, et al. Ter Arkh 1989; 61(12):73–6 (Eng. Abstr.) (Rus)
[A trial of detecting acid phosphatase by cytochemical methods for assessing the functional status of the leukocytes in discoid lupus erythematosus] Goncharenko TS. Vestn Dermatol Venerol 1990;(2):44–6 (Eng. Abstr.) (Rus)

STANDARDS

[Quality control in studies of enzyme activity] Men'shikov VV, et al. Lab Delo 1990;(5):74–7 (Rus)
[Measurement of serum cholinesterase activity: comparison of commercial and laboratory test reagents, enzyme standards and statistical processing of the results] Simeon V. Arh Hig Rada Toksikol 1989 Jun;40(2):183–9 (Eng. Abstr.) (Scr)

VETERINARY

Lactate dehydrogenase isoenzyme patterns in bovine liver tissue. Yasuda J, et al. Nippon Juigaku Zasshi 1989 Aug; 51(4):733–9

ENZYMES

Photoaffinity labelling of isopenicillin N synthetase. Baldwin JE, et al. Biochem J 1990 Mar 1;266(2):561–7
Progress-curve equations for reversible enzyme–catalysed reactions inhibited by tight–binding inhibitors. Szedlacsek SE, et al. Biochem J 1990 Feb 1;265(3):647–53
Enzyme storage—to freeze or not to freeze? Hill JP, et al. Biochem Soc Trans 1989 Dec;17(6):1079–80
Enzymes in organic solvents. Russell AJ, et al. Biochem Soc Trans 1989 Dec;17(6):1145
Zinc coordination, function, and structure of zinc enzymes and other proteins. Vallee BL, et al. Biochemistry 1990 Jun 19;29(24):5647–59 (102 ref.)
Convenient and inexpensive system for low temperature preservation of enzymes during storage and use. Kranz R. Biotechniques 1989 May;7(5):455–6
Selected papers from the 7th International Congress on Clinical Enzymology. Osaka, Japan, September 11–14, 1988. Clin Biochem 1990 Apr;23(2):97–171
Effect of serum lyophilization on the rate constants of enzymatic methods for measuring cholesterol. Kroll MH, et al. Clin Chem 1990 Mar;36(3):534–7
Progress in clinical enzymology. A selection of papers from presentations at the 7th International Congress on Clinical Enzymology. Osaka, Japan, September 11–14, 1988. Proceedings. Clin Chim Acta 1989 Dec 15;185(3):219–367
Recent advances in the generation of chiral intermediates using enzymes. Davies HG, et al. Crit Rev Biotechnol 1990; 10(2):129–53 (205 ref.)
Enzyme activity electrophoresis: development and applications. Poulsen OM, et al. Electrophoresis 1989 Dec; 10(12):857–64
Effect of evolution on the kinetic properties of enzymes [published erratum appears in Eur J Biochem 1989 Dec 22;186(3):755] Pettersson G. Eur J Biochem 1989 Oct 1; 184(3):561–6
Activation of prodrugs by antibody–enzyme conjugates: a new approach to cancer therapy. Senter PD. FASEB J 1990 Feb 1;4(2):188–93 (24 ref.)
Molecular weight analysis of isopenicillin N synthase by electrospray mass spectrometry. Aplin RT, et al. FEBS Lett 1990 May 21;264(2):215–7
Discrete design of enzyme kinetic experiments. Canela EI, et al. Int J Biomed Comput 1990 Feb;25(1):7–20
Enzyme activity in organized systems. Abstracts of the meeting of the Lazio–Abruzzi–Molise Group of the Italian Biochemical Society. Rome, June 24, 1988. Ital J Biochem 1989 Jul–Aug;38(4):249A–284A
Solvent structure and enzyme activity. Brorson JR, et al. J Biomol Struct Dyn 1985 Aug;3(1):197–204
Nuclear magnetic resonance. Part B. Structure and mechanism. Methods Enzymol 1989;177:1–467
Amino acid analysis. Ozols J. Methods Enzymol 1990; 182:587–601
Design of catalytic antibodies. Pollack SJ, et al. Methods Enzymol 1989;178:551–68
Production of antibodies that mimic enzyme catalytic activity. Tramontano A, et al. Methods Enzymol 1989; 178:531–50
Recent advances in the use of enzyme–catalysed reactions in organic synthesis. Turner NJ. Nat Prod Rep 1989 Dec; 6(6):625–44 (158 ref.)
Protein model structure evaluation using the solvation free energy of folding. Chiche L, et al. Proc Natl Acad Sci U S A 1990 Apr;87(8):3240–3
Versatile protein engineering vectors for mutagenesis, expression and hybrid enzyme formation. Larimer FW, et al. Protein Eng 1990 Jan;3(3):227–31
Evolution of eye lens crystallins: the stress connection. de Jong WW, et al. Trends Biochem Sci 1989 Sep;14(9):365–8 (31 ref.)

ADMINISTRATION & DOSAGE

Electric field mediated transfer of enzymes into human oocytes. Douglas JW, et al. Fertil Steril 1990 Jun; 53(6):1044–8

ANALYSIS

Enzyme sensors based on an ion–sensitive field effect transistor coated with Langmuir–Blodgett membranes. Use of polyethyleneimine as a spacer for immobilizing alpha–chymotrypsin. Anzai J, et al. Chem Pharm Bull (Tokyo) 1989 Dec;37(12):3320–2
Photo–switchable ion and enzyme sensors. Photoinduced potentiometric response of glassy carbon electrode coated with polymer or polymer/enzyme dual membrane. Chen CW, et al. Chem Pharm Bull (Tokyo) 1989 Dec; 37(12):3316–9
Abstracts of the Eighth International Congress of Clinical Enzymology. Toronto, Canada, May 30–June 1, 1989. Clin Biochem 1989 Oct;22(5):401–15
Enzyme–linked immunoglobulins and their clinical significance. Tozawa T. Electrophoresis 1989 Aug–Sep; 10(8–9):640–4
A direct assay for evaluation of polyethylene glycol in enzyme adducts used as drugs or biocatalysts. Schiavon O, et al. Farmaco 1990 Jun;45(6 Suppl):791–5
Electrophoretic analysis of gene–enzyme systems in Chabertia ovina. Ortega JE, et al. Folia Parasitol (Praha) 1990;37(1):63–6
Polyvinyl alcohol and other tissue protectants in enzyme histochemistry: a consumer's guide. Van Noorden CJ, et al. Histochem J 1989 Jul;21(7):373–9 (61 ref.)
Analysis of Listeria monocytogenes by multilocus enzyme electrophoresis and application of the method to epidemiologic investigations. Bibb WF, et al. Int J Food Microbiol 1989 Jun;8(3):233–9
Coupled reactions for the determination of analytes and enzymes based on the use of luminescence. Roda A, et al. J Biolumin Chemilumin 1989 Jul;4(1):423–35
Clinical applications of luminescent assays for enzymes and enzyme labels. Bronstein I, et al. J Clin Lab Anal 1989; 3(5):316–22
Enzyme histochemistry on freeze–substituted glycol methacrylate–embedded tissue. Murray GI, et al. J Histochem Cytochem 1990 Jan;38(1):95–101
Electrophoretic comparison of the Leishmania vectors Phlebotomus papatasi and P. langeroni (Diptera: Psychodidae). Kassem HA, et al. J Med Entomol 1990 Jul; 27(4):592–601
Rapid sampling of multiple enzyme reactions. Spector T, et al. J Virol Methods 1989 Nov;26(2):237–43
New, bioluminescence–enhanced detection systems for use in enzyme activity tests, enzyme immunoassays, protein blotting and nucleic acid hybridization. Geiger R, et al. Mol Cell Probes 1989 Dec;3(4):309–28 (87 ref.)
Multilocus enzyme electrophoresis for identification and typing of Treponema hyodysenteriae and related spirochaetes. Lymbery AJ, et al. Vet Microbiol 1990 Mar; 22(1):89–99
[Stability and stabilization of enzymes] Jacobi R, et al. Pharmazie 1989 Oct;44(10):678–85 (105 ref.) (Ger)
[Mycotoxins in enzymatic preparations. 1. Method for the detection and determination of aflatoxins] Czerwiecki L. Rocz Panstw Zakl Hig 1989;40(1):44–9 (Eng. Abstr.) (Pol)

BIOSYNTHESIS

Proceedings of the twenty–eighth symposium on regulation of enzyme activity and synthesis in normal and neoplastic tissues. Indianapolis, Indiana, October 2–3, 1988. Adv Enzyme Regul 1989;28:1–374
Mechanisms of induction of enzymes that protect against chemical carcinogenesis. Talalay P. Adv Enzyme Regul 1989;28:237–50 (49 ref.)
Multiple levels in the control of rhythms in enzyme synthesis and activity by circadian clocks: recent trends. Queiroz–Claret C, et al. Chronobiol Int 1990;7(1):25–33
[Activity of serum enzymes in workers in the enzyme production industry] Kuchuk AA, et al. Gig Sanit 1989 Dec;(12):21–3 (Eng. Abstr.) (Rus)
[The enzyme activity of bacilli showing promise for incorporation into biopreparations] Slabospitskaia AT, et al. Mikrobiol Zh 1990 Mar–Apr;52(2):9–14 (Eng. Abstr.) (Rus)

BLOOD

Flow system for direct determination of enzyme substrate in undiluted whole blood. Buch–Rasmussen T. Anal Chem 1990 May 1;62(9):932–6
Effects of repeated topical application of dichlorvos on blood enzymes and its toxicity in buffalo calves (Bubalus bubalis). Raina R, et al. Br Vet J 1990 May–Jun;146(3):264–9
Effects of PCBs on plasma enzymes, testosterone level, and hepatic xenobiotic metabolism in the grey partridge, Perdix perdix. Abiola F, et al. Bull Environ Contam Toxicol 1989 Sep;43(3):473–80
Macroenzymes: biochemical characterization, clinical significance, and laboratory detection. Remaley AT, et al. Clin Chem 1989 Dec;35(12):2261–70 (153 ref.)
Diagnostic enzymology. Clin Lab Med 1989 Dec; 9(4):595–781
Theoretical aspects of enzymes in diagnosis. Why do serum enzymes change in hepatic, myocardial, and other diseases? Pappas NJ Jr. Clin Lab Med 1989 Dec;9(4):595–626 (60 ref.)
Interactions of water contaminants. I. Plasma enzyme activity and response surface methodology following gavage administration of CCl4 and CHCl3 or TCE singly and in combination in the rat. Borzelleca JF, et al. Fundam Appl Toxicol 1990 Apr;14(3):477–90
Effect of vitamin E on the severity of myocardial infarction induced by isoproterenol. Kumari SS, et al. Indian J Med Res 1989 Dec;90:468–71
Macro enzymes: prevalence, composition, detection and clinical relevance. Sturk A, et al. J Clin Chem Clin Biochem 1990 Feb;28(2):65–81 (174 ref.)
Biochemical reference values in elderly black subjects. Bester FC, et al. S Afr Med J 1990 Sep 1;78(5):241–4
Serum complement activity and serum enzymes in rats after a subcutaneous injection of toxin prepared from Pasteurella multocida type D. Thurston JR, et al. Vet Immunol Immunopathol 1989 Dec;23(3–4):385–8
[Plasma enzyme activities and acid–base equilibrium in sows in relation to the progress of labor] Lichtblau K, et al. Berl Munch Tierarztl Wochenschr 1990 Jun 1;103(6):182–8 (Eng. Abstr.) (Ger)
[Clinico–diagnostic significance of enzyme activity determinations] Rotzach W, et al. Z Arztl Fortbild (Jena) 1989;83(24):1217–20 (8 ref.) (Ger)
[Serum enzymes in grade I hypertensive patients before and following a change in nutrition in relation to polyene acid and electrolyte content] Junker L, et al. Z Gesamte Inn Med 1990 Jun 15;45(11):323–4 (Eng. Abstr.) (Ger)
[Enzyme deficiencies in leukocytes of workers exposed to mercury vapors. I. Neutrophils] Moszczyński P Jr, et al. Med Pr 1989;40(4):213–9 (Eng. Abstr.) (Pol)
[The effect of prolonged antiorthostatic hypokinesia on the blood serum activity of enzymes involved in energy and plastic metabolism] Popova IA, et al. Kosm Biol Aviakosm Med 1989 Aug–Sep;23(4):51–5 (Eng. Abstr.) (Rus)
[Differences in the blood serum enzyme activity in normal subjects in relation to age and sex (review of the literature)] Gromashevskaia LL, et al. Lab Delo 1990;(5):4–10 (58 ref.) (Rus)

CHEMICAL SYNTHESIS

Catalytic antibodies—a new direction in enzyme design. Powell MJ, et al. Protein Eng 1989 Nov;3(2):69–75 (61 ref.)

DEFICIENCY

Prenatal diagnosis of enzyme defects. Winchester B. Arch Dis Child 1990 Jan;65(1 Spec No):59–67 (62 ref.)
[Pre– and postnatal diagnosis of organoacidopathies] Hoffmann GF, et al. Monatsschr Kinderheilkd 1990 Jul; 138(7):381–8 (38 ref.) (Eng. Abstr.) (Ger)
[Enzyme deficiency in the lymphocytes of tobacco smokers] Moszczyński P, et al. Przegl Lek 1989;46(10):719–22 (Eng. Abstr.) (Pol)

DIAGNOSTIC USE

Excitatory amino acid receptor agonists. Enantiomeric resolutions by use of enzymes and chiral HPLC. Hansen JJ, et al. Acta Pharm Nord 1990;2(3):185–92 (31 ref.)

GENETICS

Patterns of divergence in homologous proteins as indicators of tertiary and quaternary structure. Benner SA. Adv Enzyme Regul 1989;28:219–36
Blood genetic markers in the Chinese of two eastern provinces. Saha N. Am J Phys Anthropol 1989 Nov; 80(3):295–303
Variation in enzymatic transient gene expression assays. Hollon T, et al. Anal Biochem 1989 Nov 1;182(2):411–8
Large amplification of a 35–kb DNA fragment carrying two penicillin biosynthetic genes in high penicillin producing strains of Penicillium chrysogenum. Barredo JL, et al. Curr Genet 1989 Dec;16(5–6):453–9
Low allozyme and mtDNA variability in the island endemic species Drosophila sechellia (D. melanogaster complex). Cariou ML, et al. Experientia 1990 Jan 15;46(1):101–4
High level expression in Escherichia coli of a fungal gene under the control of strong promoters. Baldwin JE, et al. FEMS Microbiol Lett 1990 Mar 1;56(1–2):45–51
The upstream region of the IPNS gene determines expression during secondary metabolism in Aspergillus nidulans. Gómez–Pardo E, et al. Gene 1990 Apr 30;89(1):109–15
Characterization of a loss–of–function mutation in the isopenicillin N synthetase gene of Acremonium chrysogenum. Ramsden M, et al. Gene 1989 Dec 21; 85(1):267–73
Molecular biology of enzyme adaptations in higher eukaryotes. Hickey DA, et al. Genome 1989;31(1):272–83 (91 ref.)
Disease resistance and enzyme heterozygosity in rainbow trout. Ferguson MM, et al. Heredity (Edinburgh) 1990 Jun; 64 (Pt 3):413–7
Human enzyme polymorphism in the Canary Islands. III. Tenerife Island population. Afonso JM, et al. Hum Biol

1989 Aug;61(4):543–9
The genes of hepatic glucose metabolism. Granner D, et al. **J Biol Chem** 1990 Jun 25;265(18):10173–6 (46 ref.)
Linkage maps for 20 enzyme loci in Aedes triseriatus. Matthews TC, et al. **J Hered** 1990 Mar–Apr;81(2):101–6
Genetic variation in two field populations and a laboratory colony of Glossina pallidipes (Diptera: Glossinidae). Nesbitt SA, et al. **J Med Entomol** 1990 Jul;27(4):586–91
Computer analysis of protein structure. Argos P. **Methods Enzymol** 1990;182:751–76
Two genes involved in penicillin biosynthesis are linked in a 5.1 kb SalI fragment in the genome of Penicillium chrysogenum. Díez B, et al. **Mol Gen Genet** 1989 Sep; 218(3):572–6
Cloning, characterization of the acyl-CoA:6-amino penicillanic acid acyltransferase gene of Aspergillus nidulans and linkage to the isopenicillin N synthase gene. Montenegro E, et al. **Mol Gen Genet** 1990 May; 221(3):322–30
Possible genetic etiology of damselfish neurofibromatosis: genetic differentiation of bicolor damselfish (Pomacentrus partitus) populations. Lacson JM, et al. **Neurofibromatosis** 1988;1(5–6):253–9
Nucleotide sequence of the isopenicillin N synthase gene (pcbC) of the gram negative Flavobacterium sp. SC 12,154. Shiffman D, et al. **Nucleic Acids Res** 1990 Feb 11;18(3):660
Evidence for neutral and selective processes in the recruitment of enzyme-crystallins in avian lenses. Wistow G, et al. **Proc Natl Acad Sci U S A** 1990 Aug;87(16):6277–80
Physiological effects of electrophoretically-detected mutations in the mouse. Lewis SE, et al. **Prog Clin Biol Res** 1990;340C:133–8
Genetic polymorphisms of drug-metabolizing enzymes: molecular mechanisms. Meyer UA, et al. **Psychopharmacol Ser** 1989;7:141–7 (19 ref.)
The evolution of alpha/beta barrel enzymes. Farber GK, et al. **Trends Biochem Sci** 1990 Jun;15(6):228–34 (29 ref.)
[Distributions and gene frequencies of PGM1 subtype, EsD, GLO1, AK, ADAand 6-PGD in 20 races of China] Li BL, et al. **I Chuan Hsueh Pao** 1989;16(2):151–8 (Eng. Abstr.) **(Chi)**
[Genetic polymorphism of AcP, EsD, 6-PGD and GPT in eleven ethnic groups of China] Xu JJ, et al. **I Chuan Hsueh Pao** 1989;16(3):230–7 (Eng. Abstr.) **(Chi)**
[Mutational variability of enzyme loci in unstable Drosophila melanogaster strains] Ivashchenko NI, et al. **Genetika** 1990 Feb;26(2):257–65 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Manufacture of diagnostic enzymes. Marriage HJ, et al. **Biochem Soc Trans** 1990 Apr;18(2):240–2
Beta-lactam biosynthesis in a gram-negative eubacterium: purification and characterization of isopenicillin N synthase from Flavobacterium sp. strain SC 12.154. Palissa H, et al. **J Bacteriol** 1989 Oct;171(10):5720–8
Screening method for large numbers of dye-adsorbents for enzyme purification. Hondmann DH, et al. **J Chromatogr** 1990 Jun 27;510:155–64
Setting up a laboratory. Deutscher MP. **Methods Enzymol** 1990;182:19–23
Preparation of extracts from higher eukaryotes. Dignam JD. **Methods Enzymol** 1990;182:194–203
Protein chromatography on hydroxyapatite columns. Gorbunoff MJ. **Methods Enzymol** 1990;182:329–39
Why purify enzymes? Kornberg A. **Methods Enzymol** 1990; 182:1–5 (1 ref.)
Preparation of membrane fractions. Ozols J. **Methods Enzymol** 1990;182:225–35
Measurement of enzyme activity. Rossomando EF. **Methods Enzymol** 1990;182:38–49
Ion-exchange chromatography. Rossomando EF. **Methods Enzymol** 1990;182:309–17
Buffers: principles and practice. Stoll VS, et al. **Methods Enzymol** 1990;182:24–38
Isolation of nitric oxide synthetase, a calmodulin-requiring enzyme. Bredt DS, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):682–5

METABOLISM

Transition state stabilization and enzymic rate acceleration. Polgár L. **Acta Biochim Biophys Hung** 1989;24(1–2):25–32
The effect of liver enzyme inhibition by cimetidine and enzyme induction by phenobarbitone on the pharmacokinetics of paroxetine. Greb WH, et al. **Acta Psychiatr Scand Suppl** 1989;350:95–8
Paroxetine: lack of effect on hepatic drug metabolizing enzymes. Haddock RE, et al. **Acta Psychiatr Scand Suppl** 1989;350:93–4
Enzymes involved in penicillin, cephalosporin and cephamycin biosynthesis. Martín JF, et al. **Adv Biochem Eng Biotechnol** 1989;39:153–87 (138 ref.)
Proceedings of the twenty-eighth symposium on regulation of enzyme activity and synthesis in normal and neoplastic tissues. Indianapolis, Indiana, October 2–3, 1988. **Adv Enzyme Regul** 1989;28:1–374
Proceedings of the Thirtieth Symposium on Regulation of Enzyme Activity and Synthesis in Normal and Neoplastic Tissues. Indianapolis, Indiana, October 2 and 3, 1989. **Adv Enzyme Regul** 1990;30:v–xxiv, 1–392
On the application of the Clark oxygen electrode to the study of enzyme kinetics in apolar solvents: the catalase reaction. Escobar L, et al. **Anal Biochem** 1990 Jan;184(1):139–44
Use of nonlinear regression to analyze enzyme kinetic data: application to situations of substrate contamination and background subtraction. Leatherbarrow RJ. **Anal Biochem** 1990 Feb 1;184(2):274–8
Transition-state analogues in protein crystallography: probes of the structural source of enzyme catalysis. Lolis E, et al. **Annu Rev Biochem** 1990;59:597–630 (125 ref.)
Thermodynamics of industrially-important, enzyme-catalyzed reactions. Tewari YB. **Appl Biochem Biotechnol** 1990 Mar;23(3):187–203 (33 ref.)
The influence of molecular crowding on the binding of glycolytic enzymes to cytoskeletal structure. Shearwin K, et al. **Biochem Int** 1989 Oct;19(4):723–9
Enzyme kinetics and metabolic control. A method to test and quantify the effect of enzymic properties on metabolic variables. Acerenza L, et al. **Biochem J** 1990 Aug 1; 269(3):697–707
Kinetic parameters of the acyl-enzyme mechanism and conditions for quasi-equilibrium and for optimal catalytic characteristics. Brocklehurst K, et al. **Biochem J** 1990 Sep 1;270(2):561–3
The effect of substrate partitioning on the kinetics of enzymes acting in reverse micelles. Bru R, et al. **Biochem J** 1990 Jun 15;268(3):679–84
Integration of temporal analysis and control analysis of metabolic systems. Easterby JS. **Biochem J** 1990 Jul 1; 269(1):255–9
Control analysis of transition times in metabolic systems. Meléndez-Hevia E, et al. **Biochem J** 1990 Jan 1; 265(1):195–202
Metabolic control analysis. An application of signal flow graphs. Sen AK. **Biochem J** 1990 Jul 1;269(1):141–7
Evolutionary optimization of the catalytic effectiveness of an enzyme. Burbaum JJ, et al. **Biochemistry** 1989 Nov 28; 28(24):9293–305
Kinetic competence of enzymic intermediates: fact or fiction? Cleland WW. **Biochemistry** 1990 Apr 3;29(13):3194–7
Effects of dietary treatment with clofibrate, nafenopin or WY-14.643 on mitochondria and DNA in mouse liver. Lundgren B, et al. **Biochim Biophys Acta** 1990 Aug 17; 1035(2):132–8
Enzyme activities in bondage? [letter; comment] Swezey RR, et al. **Bioessays** 1990 Feb;12(2):98–9 Comment on: Bioessays 1989 Apr;10(4):127–30.
PQQ and quinoprotein research—the first decade. Duine JA. **Biofactors** 1989 Dec;2(2):87–94 (73 ref.)
Non-redox roles for iron-sulfur clusters in enzymes. Switzer RL. **Biofactors** 1989 Dec;2(2):77–86 (56 ref.)
The structure of metabolic systems: a theoretical approach. Holzhütter HG, et al. **Biomed Biochim Acta** 1990; 49(2–3):S154–9
Applications of graph theory to enzyme kinetics and protein folding kinetics. Steady and non-steady-state systems. Chou KC. **Biophys Chem** 1990 Jan;35(1):1–24 (32 ref.)
Spatial order as a source of kinetic cooperativity in organized bound enzyme systems. Ricard J, et al. **Biophys J** 1989 Sep;56(3):477–87
Kinetics of a multistate enzyme in a large oscillating field. Robertson B, et al. **Biophys J** 1990 Apr;57(4):689–96
Chemical model of reaction cascades induced by activated enzymes or catalysts. Two-step cascades in visual transduction. Shirane K, et al. **Biophys J** 1990 Jan; 57(1):163–7
Enzyme regulation by biological disulfides. Ondarza RN. **Biosci Rep** 1989 Oct;9(5):593–604 (59 ref.)
Interdependence between cooperativity and control coefficients. Canela EI, et al. **Biosystems** 1989;23(1):7–14
Optimization of enzyme-mediated peptide bond formation. Schwarz A, et al. **Biotechnol Appl Biochem** 1990 Apr; 12(2):188–95
The dissection and engineering of sites that affect the activity of an enzyme of unknown structure. Hill K, et al. **Biotechnology** 1990;14:65–79 (41 ref.)
Isopenicillin N synthase and desacetoxycephalosporin C synthase activities during defined medium fermentations of Streptomyces clavuligerus: effect of oxygen and iron supplements. Rollins MJ, et al. **Can J Microbiol** 1989 Dec; 35(12):1111–7
Computer programs for the rapid determination of enzyme kinetics on MS-DOS compatible microcomputers. Myers R, et al. **Comput Appl Biosci** 1990 Apr;6(2):63–5
Computer programs for the rapid determination of enzyme kinetics on MS-DOS compatible microcomputers. Myers R, et al. **Comput Appl Biosci** 1990 Jan;6(1):51–3
Microbial enzymes for oxidation of organic molecules. Sariaslani FS. **Crit Rev Biotechnol** 1989;9(3):171–257 (383 ref.)
Nonequilibrium isotope exchange methods for investigating enzyme mechanisms. Cornish-Bowden A. **Curr Top Cell Regul** 1989;30:143–69 (44 ref.)
Extended X-ray absorption fine structure (EXAFS) investigations of model compounds for zinc enzymes. Eggers-Borkenstein P, et al. **Eur J Biochem** 1989 Dec 22; 186(3):667–75
Metabolic control analysis. The effects of high enzyme concentrations. Fell DA, et al. **Eur J Biochem** 1990 Aug 28;192(1):183–7
Enzyme-enzyme interactions and control analysis. 1. The case of non-additivity: monomer-oligomer associations. Kacser H, et al. **Eur J Biochem** 1990 Feb 14;187(3):481–91 (39 ref.)
Kinetic theory of enzymatic reactions in reversed micellar systems. Application of the pseudophase approach for partitioning substrates. Khmelnitsky YL, et al. **Eur J Biochem** 1990 May 31;190(1):155–9
Dependence of the Calvin cycle activity on kinetic parameters for the interaction of non-equilibrium cycle enzymes with their substrates. Pettersson G, et al. **Eur J Biochem** 1989 Dec 22;186(3):683–7
A theoretical treatment of damped oscillations in the transient state kinetics of single-enzyme reactions. Ryde-Pettersson U. **Eur J Biochem** 1989 Dec 8;186(1–2):145–8
Enzyme-enzyme interactions and control analysis. 2. The case of non-independence: heterologous associations. Sauro HM, et al. **Eur J Biochem** 1990 Feb 14;187(3):493–500 (19 ref.)
Covalent modification and metabolic control analysis. Modification to the theorems and their application to metabolic systems containing covalently modifiable enzymes. Small JR, et al. **Eur J Biochem** 1990 Jul 31; 191(2):405–11
Metabolic control analysis. Sensitivity of control coefficients to elasticities. Small JR, et al. **Eur J Biochem** 1990 Jul 31; 191(2):413–20
Description of enzyme kinetics in reversed micelles. 1. Theory. Verhaert RM, et al. **Eur J Biochem** 1990 Jan 12; 187(1):59–72
Short and long spacer sequences and other structural features of zinc binding sites in zinc enzymes. Vallee BL, et al. **FEBS Lett** 1989 Oct 23;257(1):138–40
Reactive oxygen intermediates metabolizing enzymes in Ancylostoma ceylanicum and Nippostrongylus brasiliensis. Batra S, et al. **Free Radic Biol Med** 1990;8(3):271–4
Appendix to the sulfur-cyanolysis sites of serum albumin: metabolite competition studies. Tight-binding inhibitions that yield atypical Henderson plots. Westley J, et al. **J Biochem Toxicol** 1989 Winter;4(4):263–5
Spectroscopic studies of isopenicillin N synthase. A mononuclear nonheme Fe2+ oxidase with metal coordination sites for small molecules and substrate. Chen VJ, et al. **J Biol Chem** 1989 Dec 25;264(36):21677–81
Flow cytometry to identify cell types to which enzymes bind. Effect of lactic dehydrogenase virus on enzyme binding. Nakayama H, et al. **J Biol Chem** 1990 Aug 25; 265(24):14355–7
Low-level chemiluminescence during lipid peroxidations and enzymatic reactions. Nakano M. **J Biolumin Chemilumin** 1989 Jul;4(1):231–40
Biphasic regulation in ligand-receptor interactions. Bounias M. **J Enzym Inhib** 1990;3(4):323–6
Channels as enzymes. Eisenberg RS. **J Membr Biol** 1990 Apr; 115(1):1–12 (28 ref.)
Theoretical analysis of compartmented coupling in linear enzyme systems. Brooks SP, et al. **J Mol Recognit** 1988 Apr;1(2):63–8
Cellular concentrations of enzymes and their substrates. Albe KR, et al. **J Theor Biol** 1990 Mar 22;143(2):163–95 (260 ref.)
Steady state kinetics of enzymes with substrates having multiple reaction sites. Barnsley EA. **J Theor Biol** 1990 Jan 23;142(2):275–9
Space-filling effects of inert solutes as probes for the detection and study of substrate-mediated conformational changes by enzyme kinetics: theoretical considerations. Bergman DA, et al. **J Theor Biol** 1989 Mar 21;137(2):171–89 (19 ref.)
Constraint matching as a means of designing biochemical experiments in multi-enzyme systems. Garfinkel D. **J Theor Biol** 1989 Mar 21;137(2):221–34
A generalization of metabolic control analysis to conditions of no proportionality between activity and concentration of enzymes. Meléndez-Hevia E, et al. **J Theor Biol** 1990 Feb 22;142(4):443–51
Ill-conditioning associated with the "end-point" method for the determination of kinetic parameters describing irreversible enzyme inactivation by an unstable inhibitor. Topham CM. **J Theor Biol** 1988 Nov 21;135(2):169–73
Kinetics of the transient-phase and steady-state of the monocyclic enzyme cascades. Varón R, et al. **J Theor Biol** 1990 Jun 7;144(3):397–413
An alternative method for determining inhibition rate constants by following the substrate reaction. Wang ZX, et al. **J Theor Biol** 1990 Feb 22;142(4):531–49
Two theoretical problems concerning the irreversible modification kinetics of enzyme activity. Wang ZX. **J Theor Biol** 1990 Feb 22;142(4):551–63
Two-dimensional nuclear magnetic resonance studies of enzyme kinetics and metabolites in vivo. Berkowitz BA, et al. **Methods Enzymol** 1989;176:330–41, 493–4
Enzyme regulation of metabolic flux. Cohen SM. **Methods Enzymol** 1989;177:417–34
Fluorine nuclear magnetic resonance of fluorinated ligands. Gerig JT. **Methods Enzymol** 1989;177:3–23
Phosphorus-31 nuclear magnetic resonance of enzyme complexes: bound ligand structure, dynamics, and environment. Gorenstein DG. **Methods Enzymol** 1989; 177:295–316
Applicability of magnetization transfer nuclear magnetic resonance to study chemical exchange reactions. Led JJ, et al. **Methods Enzymol** 1989;176:311–29
Determination of equilibrium constants of enzyme-bound reactants and products by nuclear magnetic resonance. Rao BD. **Methods Enzymol** 1989;177:358–75

Nuclear magnetic resonance line-shape analysis and determination of exchange rates. Rao BD. **Methods Enzymol** 1989;176:279–311

Mechanistic studies utilizing oxygen-18 analyzed by carbon-13 and nitrogen-15 nuclear magnetic resonance spectroscopy. Risley JM, et al. **Methods Enzymol** 1989; 177:376–89

Isotope exchange. Rösch P. **Methods Enzymol** 1989; 176:342–58

Ligand conformations and ligand-enzyme interactions as studied by the nuclear Overhauser effect. Rosevear PR, et al. **Methods Enzymol** 1989;177:333–58

Generation of steady-state rate equations for enzyme and carrier-transport mechanisms: a microcomputer program. Runyan KR, et al. **Methods Enzymol** 1989;171:164–90

Ligand-protein interactions via nuclear magnetic resonance of quadrupolar nuclei. Sanders CR 2d, et al. **Methods Enzymol** 1989;177:317–33

Two-site and competitive chemiluminescent immunoassays. Strasburger CJ, et al. **Methods Enzymol** 1990;184:481–96

Expression of xenobiotic-metabolizing enzymes in propagatable cell cultures and induction of micronuclei by 13 compounds. Glatt H, et al. **Mutagenesis** 1990 May; 5(3):241–9

A comparison of enzymatic and heterogeneous catalysis. Erkelens J. **Naturwissenschaften** 1990 Feb;77(2):86–7

Spin-exchange NMR spectroscopy in studies of the kinetics of enzymes and membrane transport. Kuchel PW. **NMR Biomed** 1990 Jun;3(3):102–19 (126 ref.)

Active-site zinc ligands and activated H2O of zinc enzymes. Vallee BL, et al. **Proc Natl Acad Sci U S A** 1990 Jan; 87(1):220–4

Channeling of glycolytic intermediates by temporary, stationary bi-enzyme complexes is probable in vivo [letter] Batke J. **Trends Biochem Sci** 1989 Dec;14(12):481–2 (19 ref.)

Variation in drug-metabolizing enzyme activities during the growth of human Hep G2 hepatoma cells. Doostdar H, et al. **Xenobiotica** 1990 Apr;20(4):435–41

[The rabbit ear model as comedogenic test. 3. Histologic and enzyme histochemical studies of the follicle and sebaceous gland epithelium] Zimmermann R. **Dermatol Monatsschr** 1990;176(1):55–61 (Eng. Abstr.) **(Ger)**

[Enzyme activities of the retina and vitreous body following experimental implantation of a brass splinter] Reim M, et al. **Klin Monatsbl Augenheilkd** 1989 Dec;195(6):363–7 (Eng. Abstr.) **(Ger)**

[Enzymatic peptide synthesis—a review] Heiduschka P, et al. **Pharmazie** 1990 Mar;45(3):164–73 (252 ref.) **(Ger)**

[Histologic and enzyme histochemical studies of the rabbit uterine horn following the use of various methods of coagulation] Riedel HH, et al. **Zentralbl Gynakol** 1990; 112(4):189–205 (Eng. Abstr.) **(Ger)**

[Biochemical studies of the amniotic fluid in arterial hypertension in relation to intrauterine growth retardation. I. Parameters of the proteins, lipids, enzymes and renal maturity] Kuczyńska-Sicińska J, et al. **Ginekol Pol** 1989 May;60(5):266–70 (Eng. Abstr.) **(Pol)**

PHARMACOLOGY

Regeneration of yeast protoplasts prepared using Novozym 234. O'Brien GA, et al. **Biochem Soc Trans** 1990 Apr; 18(2):328–9

Enzyme supplementation of a poultry diet containing rye and wheat. Pettersson D, et al. **Br J Nutr** 1989 Jul; 62(1):139–49

Effects of procoagulants on wound healing. Ramesh KV, et al. **Indian J Exp Biol** 1990 Jan;28(1):43–5

PHYSIOLOGY

Kinetic model of the effects of electrogenic enzymes on the membrane potential. Hernandez J, et al. **J Theor Biol** 1989 Mar 7;137(1):113–25

The enzymology of DNA repair. **Mutat Res** 1990 Sep-Nov; 236(2–3):145–314

[The winners of the Nobel Prize in chemistry this year: the discovery that shows RNA functioning as an enzyme helps us to understand the creation and development of life] Wieslander L. **Lakartidningen** 1989 Dec 6;86(49):4353–6 **(Swe)**

SECRETION

[Regulation of pancreas function by the proximal and distal small intestine] Layer P, et al. **Z Gastroenterol** 1989 Dec; 27 Suppl 3:19–21 (25 ref.) **(Ger)**

[Relation of interdigestive gastrointestinal motility and pancreas-bile secretion] Malfertheiner P. **Z Gastroenterol** 1989 Dec;27 Suppl 3:10–2 (32 ref.) **(Ger)**

THERAPEUTIC USE

Antibody-directed enzyme prodrug therapy. Connors TA. **Cancer Cells** 1990 Feb;2(2):56–7

Enzyme-replacement therapy: problems and prospects. Rademaker B, et al. **Pharm Weekbl [Sci]** 1989 Oct 20; 11(5):137–45 (110 ref.)

Protection against free radical injury by selenoenzymes. Burk RF. **Pharmacol Ther** 1990;45(3):383–5 (21 ref.)

Improving on nature: antibody-targeted enzymes. Bode C, et al. **Year Immunol** 1989–90;6:185–96 (37 ref.)

[Clinico-pharmacological aspects of endogenous physiologically active compounds] Mashkovskiĭ MD. **Klin Med (Mosk)** 1990 Apr;68(4):3–15 **(Rus)**

URINE

Influence of seasonal biorhythms on urinary excretion of enzymes and other parameters. Grötsch H, et al. **J Clin Chem Clin Biochem** 1990 May;28(5):285–6

Evaluation of the nephrotoxicity of aromatic nitro-amino compounds by urinary enzyme activities. Yoshida M, et al. **J Toxicol Sci** 1989 Nov;14(4):257–68

Urinary enzyme excretion after donor nephrectomy—how should we express and compare excretion rates of the remaining kidney after donor nephrectomy? [letter; comment] Jung K. **Nephron** 1990;54(2):196 Comment on: Nephron 1988;48(2):126–31.

The use of urinary enzymes as markers of nephrotoxicity. Dubach UC, et al. **Pol Arch Med Wewn** 1988 Nov; 80(5):283–9 (14 ref.)

[Respective effect of temperature and duration of extracorporeal circulation on enzymuria] Desveaux N, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R108 **(Fre)**

[The effect of extra-corporeal circulation on proteinuria and enzymuria] Donzeau-Gouge E, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R109 **(Fre)**

[Physiological influences on the enzyme elimination with urine] Burchardt U. **Z Med Lab Diagn** 1990;31(1):33–7 (30 ref.) (Eng. Abstr.) **(Ger)**

[Cisplatin nephrotoxicity: effects on fractional excretion of sodium and enzymuria] Cirami C, et al. **Minerva Med** 1990 Jan-Feb;81(1–2):79–86 (Eng. Abstr.) **(Ita)**

[Urinary enzymes as a marker of the preclinical stage of diabetic nephropathy] Dedov II, et al. **Ter Arkh** 1989; 61(12):73–6 (Eng. Abstr.) **(Rus)**

ENZYMES, IMMOBILIZED

Alumina-phosphate complexes for immobilization of biomolecules. Coletti-Previero MA, et al. **Anal Biochem** 1989 Jul;180(1):1–10 (35 ref.)

Determination of phosphatidylcholine in a flow injection system using immobilized enzyme reactors. Masoom M, et al. **Anal Biochem** 1990 Jun;187(2):240–5

Polishable and robust biological electrode surfaces. Wang J, et al. **Anal Chem** 1990 Feb 1;62(3):318–20

Immobilization of glucose oxidase and peroxidase and their application in flow-injection analysis for glucose in serum. Guo JA, et al. **Appl Biochem Biotechnol** 1990 Jan; 23(1):15–24

Removal of RNA during protein concentration by means of enzyme membrane. Rucka M, et al. **Appl Biochem Biotechnol** 1989 Nov;22(2):119–27

Immobilization of amyloglucosidase using two forms of polyurethane polymer. Storey KB, et al. **Appl Biochem Biotechnol** 1990 Mar;23(3):221–36

Immobilization of proteolytic enzymes. Harhen B, et al. **Biochem Soc Trans** 1990 Apr;18(2):314–5

Stability properties of two supports for immobilization of enzymes. Toher J, et al. **Biochem Soc Trans** 1990 Apr; 18(2):313–4

Immobilization of acetyl-CoA:arylamine N-acetyltransferase and the preparation of an enzyme reactor for the synthesis of N-[11C]acetylserotonin. Mannens G, et al. **Biochim Biophys Acta** 1990 Mar 29;1038(1):68–73

Properties of arginase immobilized in a fibrin clot. Diez A, et al. **Biotechnol Appl Biochem** 1990 Jun;12(3):237–44

Conversion of ammonia or urea into essential amino acids, L-leucine, L-valine, and L-isoleucine, using artificial cells containing an immobilized multienzyme system and dextran-NAD+. 2. Yeast alcohol dehydrogenase for coenzyme recycling. Gu KF, et al. **Biotechnol Appl Biochem** 1990 Jun;12(3):227–36

Immobilized uroporphyrinogen I synthetase from Rhodopseudomonas palustris. Kotler ML, et al. **Biotechnol Appl Biochem** 1990 Jun;12(3):252–7

Immobilized biosystems in research and industry. Kennedy JF, et al. **Biotechnol Genet Eng Rev** 1989;7:297–313 (58 ref.)

Simultaneous assay of hypoxanthine, xanthine and allopurinol by high-performance liquid chromatography and activation of immobilized xanthine oxidase as an enzyme reactor. Kito M, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep; 37(9):2459–62

Fibre-optic biosensor based on luminescence and immobilized enzymes: microdetermination of sorbitol, ethanol and oxaloacetate. Gautier SM, et al. **J Biolumin Chemilumin** 1990 Jan-Mar;5(1):57–63

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors. Kito M, et al. **J Chromatogr** 1990 Jun 8;528(1):91–9

Application of encapsulated enzyme dispersed in a continuous stirred tank reactor. Iso M, et al. **J Microencapsul** 1990 Apr-Jun;7(2):167–77

Optimisation of enzyme electrodes. Tang LX, et al. **Med Biol Eng Comput** 1990 May;28(3):B18–24 (27 ref.)

Direct determination of urinary oxalate by a continuous flow method. Goldsack K, et al. **Med Lab Sci** 1990 Apr; 47(2):73–9

ADMINISTRATION & DOSAGE

[Treatment of experimental suppurative wounds with proteolytic and lytic enzymes immobilized on carbonic cloth] Lobenko AA, et al. **Klin Khir** 1990;(1):31–2 (Eng. Abstr.) **(Rus)**

[Use of immobilized lysozyme in the treatment of suppurative wounds of the soft tissues] Timofeev AA, et al. **Klin Khir** 1990;(1):37–8 (Eng. Abstr.) **(Rus)**

ANALYSIS

Directional immobilization of sodium- and potassium-activated ATPase to expose its cytoplasmic part to the liquid phase on microtiter plates by wheat germ agglutinin. Nagamune H, et al. **Anal Biochem** 1989 Aug 1;180(2):362–7

[Study of the structural organization of cytochrome P-450 oligomers using immobilized isoenzyme LM2] Miasoedova KN, et al. **Biokhimiia** 1990 Jan;55(1):155–64 (Eng. Abstr.) **(Rus)**

[Various properties of immobilized terminal deoxynucleotidyl transferase from the cattle thymus] Akishev AG. **Prikl Biokhim Mikrobiol** 1990 Jan-Feb;26(1):33–8 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Human alpha 2-macroglobulin as an inhibitor of insoluble trypsin. Heumann D, et al. **Biochem Biophys Res Commun** 1989 Nov 30;165(1):14–9

CHEMICAL SYNTHESIS

Expression, purification, and immobilization of a protein A-beta-lactamase hybrid protein. Georgiou G, et al. **Ann N Y Acad Sci** 1990;589:139–47

DIAGNOSTIC USE

Suitable potentiometric enzyme sensors for urea and creatinine. Campanella L, et al. **Analyst** 1990 Jun; 115(6):827–30

Silicone-grease-based immobilisation method for the preparation of enzyme electrodes. Connor MP, et al. **Analyst** 1989 Nov;114(11):1427–9

Development of effective cross-linking method for bioactive substance—enzyme immobilization using glutaraldehyde oligomers [published erratum appears in Chem Pharm Bull (Tokyo) 1989 Dec;37(12):3435] Nakagawa T, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep;37(9):2463–6

[A method for determining urea by using immobilized urease] Ivanov IP, et al. **Lab Delo** 1990;(1):29–31 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

[Stabilization of fly head cholinesterase immobilized on a gelatin membrane] Kugusheva LI, et al. **Ukr Biokhim Zh** 1989 Nov-Dec;61(6):92–4 (Eng. Abstr.) **(Rus)**

METABOLISM

Determination of inorganic phosphate by flow injection method with immobilized enzymes and chemiluminescence detection. Kawasaki H, et al. **Anal Biochem** 1989 Nov 1; 182(2):366–70

Flow-injection analysis of amino acids and their metabolites by immobilized vitamin B6-dependent enzymes. Sensitive determination of L-aspartate, L-glutamate, 2-oxoglutarate, and oxaloacetate. Kurkijärvi K, et al. **Ann N Y Acad Sci** 1990;585:394–403

Immobilized pig brain NAD glycohydrolase for the preparation of NAD analogues. Pace M, et al. **Ann N Y Acad Sci** 1990;589:689–96

Conversion of mannose to fructose by immobilized mannose isomerase from Pseudomonas cepacia. Allenza P, et al. **Appl Biochem Biotechnol** 1990 Spring-Summer; 24–25:171–82

Immobilization of a lactase onto a magnetic support by covalent attachment to polyethyleneimine-glutaraldehyde-activated magnetite. Dekker RF. **Appl Biochem Biotechnol** 1989 Dec; 22(3):289–310

Immobilization of pig muscle aldolase on a silica-based support. Horváth L, et al. **Appl Biochem Biotechnol** 1989 Dec;22(3):223–35

Influence of lectin concentration on the catalytic properties of S1 nuclease bound to Concanavalin A-sepharose. Reddy LG, et al. **Appl Biochem Biotechnol** 1989 Oct;22(1):79–94

Preparation and properties of RNase T2 immobilized on concanavalin A-sepharose. Reddy LG, et al. **Appl Biochem Biotechnol** 1989 Dec;22(3):237–46

DNase activity of micrococcal endonuclease insolubilized on corn cob. Sánchez-Montero JM, et al. **Appl Biochem Biotechnol** 1989 Nov;22(2):205–14

Preparation, characterization, and application of a novel immobilized carboxypeptidase B. Südi P, et al. **Appl Biochem Biotechnol** 1989 Oct;22(1):31–43

Enzyme coupling method on calibrated nylon spheres: application to the selective trypsinization of histones in chromatin. Michalon P, et al. **Biochem Biophys Res Commun** 1990 Feb 28;167(1):9–15

Apocarboxypeptidase B-sepharose: a specific adsorbent for peptides. Yasuhara T, et al.

Biochem Biophys Res Commun 1990 Jan 15;166(1):330–5
Pattern formation in an immobilized bienzyme system. A morphogenetic model. Cortassa S, et al. Biochem J 1990 Jul 1;269(1):115–22
Binding of a Bolton–Hunter substituted homostatine analog to affinity-immobilized human renin. Evenou JP, et al. Biochem Pharmacol 1990 Aug 15;40(4):765–70
Chemistry in a microenvironment of low pH, generated with the aid of an immobilized proteinase. Silver MS, et al. Biochim Biophys Acta 1990 May 31;1039(1):25–32
Preparation and characterisation of xanthine oxidase immobilised by microencapsulation in artificial cells for the removal of hypoxanthine. Chang TM. Biomater Artif Cells Artif Organs 1989;17(5):611–6
Immobilized enzyme activity improvement in glutaraldehyde method. Chen CZ, et al. Biomater Artif Cells Artif Organs 1989;17(3):329–34
Bilirubin removal by the pseudoperoxidase activity of free and immobilized hemoglobin and hemoglobin co-immobilized with glucose oxidase. Daka JN, et al. Biomater Artif Cells Artif Organs 1989;17(5):553–62
Characteristics of immobilized aminoacylase from Aspergillus oryzae on macroporous copolymers. He BL, et al. Biomater Artif Cells Artif Organs 1990;18(3):375–82
New variant of von Willebrand disease with defective binding to factor VIII. Nishino M, et al. Blood 1989 Oct; 74(5):1591–9
A colorimetric assay for immobilized chloroperoxidase. Kadima TA, et al. Can J Microbiol 1990 Apr;36(4):302–4
Catalytic activity of administered gulonolactone oxidase polyethylene glycol conjugates. Hadley KB, et al. Enzyme 1989;42(4):225–34
Stabilisation and immobilisation of penicillin amidase. Burteau N, et al. FEBS Lett 1989 Dec 4;258(2):185–9
Stabilization of prostaglandin synthetase by immobilization of goat seminal microsomes on silica gel–G. Ghosh D, et al. Indian J Biochem Biophys 1990 Apr;27(2):76–80
Immobilization and characterization of beta-galactosidase in thermally reversible hydrogel beads. Park TG, et al. J Biomed Mater Res 1990 Jan;24(1):21–38
[Water binding of adsorptive immobilized lipases] Loose S, et al. Nahrung 1990;34(1):37–46 (Eng. Abstr.) (Ger)

THERAPEUTIC USE

[The use of immobilized and native proteolytic enzymes in treating inflammatory periodontal diseases] Chuchmal GS, et al. Stomatologiia (Mosk) 1990 May–Jun;69(3):31–4 (Eng. Abstr.) (Rus)

ENZYMOLOGIC GENE EXPRESSION REGULATION see GENE EXPRESSION REGULATION, ENZYMOLOGIC

EOG see ELECTROOCULOGRAPHY

EOSIN

Papanicolaou stain properties that allow Pneumocystis carinii to fluoresce. Allen KA. Acta Cytol 1990 Jul–Aug; 34(4):585–6
Which granules can be stained with azure B and eosin? Kurz H, et al. Blood Cells 1989;15(3):609–15; discussion 616–9
Rapid diagnosis of Pneumocystis carinii infection in AIDS by cytocentrifugation and rapid hematoxylin–eosin staining. Strigle SM, et al. Diagn Cytopathol 1990;6(3):164–8
Romanowsky dyes and Romanowsky–Giemsa effect. 5. Structural investigations of the purple DNA–AB–EY dye complexes of Romanowsky–Giemsa staining. Friedrich K, et al. Histochemistry 1990;93(3):247–56
Standardized thionin–eosin Y: a quick stain for cytology. Schulte EK, et al. Stain Technol 1989 Sep;64(5):255–6

DIAGNOSTIC USE

Renal biopsy frozen section: a fluorescent study of hematoxylin and eosin-stained sections. Bonsib SM, et al. Mod Pathol 1990 Mar;3(2):204–10
A combination of Gomori–Grocott methenamine silver nitrate and hematoxylene and eosin staining technique for the demonstration of Candida albicans in tissue. Sinha BK, et al. Quad Sclavo Diagn 1988 Jan–Dec;24(1–4):129–32

PHARMACOLOGY

[Mechanism of active oxygen in cytocidal activity of tetrabromofluorescein] Zhou XF, et al. Chung Kuo Yao Li Hsueh Pao 1989 Jul;10(4):374–6 (Eng. Abstr.) (Chi)

EOSINE YELLOWISH see EOSIN

EOSINOPHIL DIFFERENTIATION FACTOR see INTERLEUKIN-5

EOSINOPHILIA

Eosinophilic cholangitis: a self-limited cause of extrahepatic biliary obstruction. Rosengart TK, et al. Am J Gastroenterol 1990 May;85(5):582–5
Eosinophilic fasciitis [editorial] Maddison PJ. Br J Rheumatol 1990 Apr;29(2):81–2
Image interpretation session. Hypereosinophilic syndrome. Radiographics 1990 Jan;10(1):136–8
[Favorable development of 2 pregnancies in hypereosinophilic syndrome (letter)] Piperno D, et al. Presse Med 1990 Jan 6–13;19(1):33 (Fre)
[Eosinophilic gastroenteritis] Dolev E, et al. Harefuah 1989 May 1;116(9):465–6 (Eng. Abstr.) (Heb)
[Eosinophilic infiltration of the gastrointestinal system: description of a clinical case simulating a lymphoproliferative process] Nastasi G, et al. Medicina (Firenze) 1990 Jan–Mar;10(1):27–9 (Eng. Abstr.) (Ita)
[Eosinophilic cystitis] López Aramburu MA, et al. Arch Esp Urol 1990 Jan–Feb;43(1):72–5 (Eng. Abstr.) (Spa)

BLOOD

Elevated serum IgE, eosinophilia, and lung function in rubber workers. Bascom R, et al. Arch Environ Health 1990 Jan–Feb;45(1):15–9
High levels of soluble interleukin-2 receptor in the serum of 30 patients with idiopathic hypereosinophilic syndrome [letter] Prin L, et al. Br J Haematol 1990 Feb;74(2):233–4
The effects of recombinant granulocyte–macrophage colony-stimulating factor (GM-CSF) and interleukin-3 on the secretory capacity of human blood eosinophils. Tai PC, et al. Clin Exp Immunol 1990 Jun;80(3):426–34
[Eosinophil kinetics] Konno M, et al. Nippon Ketsueki Gakkai Zasshi 1989 May;52(3):601–7 (Eng. Abstr.) (Jpn)
[Elevated eosinophilias (30–90%) and their place among parasitic and nonparasitic diseases (personal observations)] Gherman I. Rev Med Interna [Med Interna] 1989 Jul–Aug; 41(4):381–4 (Eng. Abstr.) (Rum)

CEREBROSPINAL FLUID

[Eosinophilic granulocytes in the cerebrospinal fluid] Kölmel HW, et al. Fortschr Neurol Psychiatr 1990 May;58(5):191–9 (93 ref.) (Eng. Abstr.) (Ger)

CHEMICALLY INDUCED

Discovery of a new disorder. Hertzman PA. Am Fam Physician 1990 Jul;42(1):47
Eosinophilic meningitis associated with ciprofloxacin. Asperilla MO, et al. Am J Med 1989 Nov;87(5):589–90
Eosinophilic fasciitis associated with the eosinophilia–myalgia syndrome. Jaffe I, et al. Am J Med 1990 May;88(5):542–6
Eosinophilic myocarditis associated with high-dose interleukin-2 therapy. Schuchter LM, et al. Am J Med 1990 Apr;88(4):439–40
The eosinophilia–myalgia syndrome [letter] Ann Intern Med 1990 May 15;112(10):795–6
The eosinophilia–myalgia syndrome [letter] Ann Intern Med 1990 Jun 15;112(12):964–5
The eosinophilia–myalgia syndrome with neuritis associated with L-tryptophan use. Dicker RM, et al. Ann Intern Med 1990 Jun 15;112(12):957–8
A case of the eosinophilia–myalgia syndrome associated with use of an L-tryptophan product. Flannery MT, et al. Ann Intern Med 1990 Feb 15;112(4):300–1
L-tryptophan ingestion associated with eosinophilic fasciitis but not progressive systemic sclerosis. Freundlich B, et al. Ann Intern Med 1990 May 15;112(10):758–62
Interim guidance on the eosinophilia–myalgia syndrome. Kilbourne EM, et al. Ann Intern Med 1990 Jan 15; 112(2):85–7
The clinical spectrum of the eosinophilia–myalgia syndrome associated with L-tryptophan ingestion. Clinical features in 20 patients and aspects of pathophysiology. Martin RW, et al. Ann Intern Med 1990 Jul 15;113(2):124–34
Hypersensitivity pneumonitis and pulmonary vasculitis with eosinophilia in a patient taking an L-tryptophan preparation. Travis WD, et al. Ann Intern Med 1990 Feb 15;112(4):301–3
Development of diffuse fasciitis with eosinophilia during L-tryptophan treatment: demonstration of elevated type I collagen gene expression in affected tissues. A clinicopathologic study of four patients. Varga J, et al. Ann Intern Med 1990 Mar 1;112(5):344–51
A patient with eosinophilia–myalgia syndrome [letter] Farmer KL, et al. Arch Dermatol 1990 Jul;126(7):971
Experimental uterine eosinophilia in the rat. The role of some inhibitors of arachidonic acid metabolism. Benítez-Bribiesca L, et al. Arch Invest Med (Mex) 1989 Jul–Sep;20(3):273–8
Association of L-tryptophan and an illness resembling eosinophilic fasciitis. Clinical and histopathologic findings in four patients with eosinophilia–myalgia syndrome. Bulpitt KJ, et al. Arthritis Rheum 1990 Jul;33(7):918–29
Eosinophilia–myalgia syndrome due to L-tryptophan ingestion. Report of four cases and review of the Maryland experience. Roubenoff R, et al. Arthritis Rheum 1990 Jul; 33(7):930–8
The eosinophilia–myalgia syndrome associated with ingestion of L-tryptophan. Shulman LE. Arthritis Rheum 1990 Jul; 33(7):913–7
Eosinophilia myalgia syndrome associated with tryptophan [letter] BMJ 1990 Aug 18–25;301(6748):387–8
Tryptophan and eosinophilia myalgia syndrome [letter] Silzer H. BMJ 1990 Mar 31;300(6728):876
Two patients with eosinophilia myalgia syndrome associated with tryptophan. van Garsse LG, et al. BMJ 1990 Jul 7; 301(6742):21
Eosinophilia–myalgia syndrome (EMS) in Canada. Wilkins K, et al. Can Dis Wkly Rep 1990 Apr 14;16(15):69–70 (Eng, Fre)
Eosinophilia–myalgia syndrome: unresolved questions. Kazura JW. Cleve Clin J Med 1990 Jul–Aug;57(5):415–6
The eosinophilia–myalgia–syndrome and L-tryptophan containing products: a case report and review of the literature. Biasotto NO, et al. Del Med J 1990 Jul; 62(7):1113–4, 1117–8 (5 ref.)
PMS and eosinophilia–myalgia syndrome. Guinan ME. J Am Med Wom Assoc 1990 Mar–Apr;45(2):60
More on L-tryptophan [letter] Geiger AJ. J Am Osteopath Assoc 1990 Aug;90(8):654, 656
Natural is not always healthy [editorial] Northup GW. J Am Osteopath Assoc 1990 Jun;90(6):505
Prostaglandin D2 causes accumulation of eosinophils in the lumen of the dog trachea. Emery DL, et al. J Appl Physiol 1989 Sep;67(3):959–62
Eosinophilic polymyositis induced by tranilast. Arase S, et al. J Dermatol 1990 Mar;17(3):182–6
Eosinophilic neuritis, perimyositis, and vasculitis associated with ingestion of L-tryptophan. Kaufman LD, et al. J Rheumatol 1990 Jun;17(6):795–800
From the Centers for Disease Control. Update: eosinophilia–myalgia syndrome associated with ingestion of L-tryptophan—United States, as of January 9, 1990. JAMA 1990 Feb 2;263(5):633
From the Centers for Disease Control. Eosinophilia–myalgia syndrome—Canada. JAMA 1990 Jun 20;263(23):3137
Tryptophan [letter] JAMA 1990 Aug 22–29;264(8):969–71
From the Centers for Disease Control. Analysis of L-tryptophan for the etiology of eosinophilia–myalgia syndrome. JAMA 1990 Oct 3;264(13):1656
Tryptophan-associated eosinophilic connective-tissue disease. A new clinical entity? Clauw DJ, et al. JAMA 1990 Mar 16;263(11):1502–6
Eosinophilia–myalgia syndrome associated with exposure to tryptophan from a single manufacturer. Slutsker L, et al. JAMA 1990 Jul 11;264(2):213–7
Eosinophilia, myopathy, and neuropathy in a patient with repeated use of L-tryptophan. Goronzy JJ, et al. Klin Wochenschr 1990 Jul 17;68(14):735–8
Eosinophilia/myalgia syndrome associated with L-tryptophan [letter] Lancet 1990 Feb 10;335(8685):353–5
Eosinophilia–myalgia linked with L-tryptophan [letter] Amor B, et al. Lancet 1990 Feb 17;335(8686):420–1
Tryptophan-associated eosinophilia–myalgia syndrome and pancreatitis [letter] Chiba S, et al. Lancet 1990 Jul 14; 336(8707):121
L-tryptophan and eosinophilia–myalgia syndrome in New Mexico. Eidson M, et al. Lancet 1990 Mar 17; 335(8690):645–8
Eosinophilia–myalgia syndrome associated with prescribed L-tryptophan [letter] Walker KG, et al. Lancet 1990 Sep 15;336(8716):695–6
L-tryptophan-associated eosinophilic perimyositis, neuritis, and fasciitis. A clinicopathologic and laboratory study of 25 patients. Kaufman LD, et al. Medicine (Baltimore) 1990 Jul;69(4):187–99
Analysis of L-tryptophan for the etiology of eosinophilia–myalgia syndrome. MMWR 1990 Aug 31; 39(34):589–91
Eosinophilia–myalgia syndrome and L-tryptophan-containing products—New Mexico, Minnesota, Oregon, and New York, 1989. MMWR 1989 Nov 24;38(46):785–8
Update: eosinophilia–myalgia syndrome associated with ingestion of L-tryptophan—United States. MMWR 1989 Dec 8;38(48):842–3
Eosinophilia–myalgia syndrome—Canada. MMWR 1990 May 18;39(19):326–7
Update: eosinophilia–myalgia syndrome associated with ingestion of L-tryptophan—United States, as of January 9, 1990. MMWR 1990 Jan 12;39(1):14–5
Eosinophilia from food dye added to enteral feeding [letter] Bell RT, et al. N Engl J Med 1990 Jun 21;322(25):1822
An investigation of the cause of the eosinophilia–myalgia syndrome associated with tryptophan use. Belongia EA, et al. N Engl J Med 1990 Aug 9;323(6):357–65
Case 4–1990: eosinophilic fasciitis [letter] Gorn A. N Engl J Med 1990 Mar 29;322(13):931
Association of the eosinophilia–myalgia syndrome with the ingestion of tryptophan [see comments] Hertzman PA, et al. N Engl J Med 1990 Mar 29;322(13):869–73 Comment in: N Engl J Med 1990 Mar 29;322(13):926–8.
Tryptophan–induced eosinophilia–myalgia syndrome [editorial; comment] Medsger TA Jr. N Engl J Med 1990 Mar 29;322(13):926–8 Comment on: N Engl J Med 1990 Mar 29;322(13):869–73. Comment on: N Engl J Med 1990 Mar 29;322(13):874–81.
Scleroderma, fasciitis, and eosinophilia associated with the ingestion of tryptophan [see comments] Silver RM, et al. N Engl J Med 1990 Mar 29;322(13):874–81 Comment in: N Engl J Med 1990 Mar 29;322(13):926–8.
Genetic engineering. Tryptophan under suspicion [news] Gershon D. Nature 1990 Aug 30;346(6287):787
Peripheral neuropathy in the eosinophilia–myalgia syndrome associated with L-tryptophan ingestion. Smith BE, et al. Neurology 1990 Jul;40(7):1035–40
Eosinophilia–myalgia syndrome: what is its link to L-tryptophan? Gray DL, et al. Ohio Med 1990 Mar;

86(3):208–9
Acute organic brain syndrome due to drug–induced eosinophilia. Ng SC, et al. **Postgrad Med J** 1989 Nov; 65(769):843–4
L–tryptophan puzzle takes new twist [news] Roberts L. **Science** 1990 Aug 31;249(4972):988
Eosinophilia–Myalgia syndrome associated with tryptophan. Namey JJ Jr, et al. **South Med J** 1990 Jun;83(6):675–8
Automated CBC count may obscure L–tryptophan toxicity diagnosis [letter; comment] Ende M. **Va Med** 1990 Apr; 117(4):141 Comment on: Va Med 1990 Feb;117:68–70.
Tryptophan use and fasciitis [letter] Adornato BT, et al. **West J Med** 1990 Apr;152(4):427–8
[L–tryptophan and eosinophilia–myalgia syndrome] Hansen TM. **Ugeskr Laeger** 1990 Jul 23;152(30):2151 (Dan)
[L–tryptophan and the eosinophilic myalgia syndrome] de Smet PA, et al. **Ned Tijdschr Geneeskd** 1990 Jun 9; 134(23):1123–5 (23 ref.) (Dut)
[L–tryptophan and the eosinophilia–myalgia syndrome (letter)] Prick JJ. **Ned Tijdschr Geneeskd** 1990 Aug 4; 134(31):1516–7 (Dut)
[Myalgia and hypereosinophilia induced by L–tryptophan. A case (letter)] Haas C, et al. **Presse Med** 1990 Jun 9; 19(23):1103 (Fre)
[Tryptophan and eosinophilia] Bonard EC.
Rev Med Suisse Romande 1990 Jun;110(6):579–80 (Fre)
[Limitations of normal eosinophilia or possible influence of nonsteroidal anti–inflammatory agents] Cottin S, et al.
Therapie 1989 Jul–Aug;44(4):297–9 (Eng. Abstr.) (Fre)
[Major eosinophilia during treatment with trimethoprim–sulfamethoxazole (letter)] Lorcerie B, et al.
Therapie 1989 Jul–Aug;44(4):302–3 (Fre)
[Eosinophilia myalgia syndrome in administration of L–tryptophan] Zöllner N, et al. **Klin Wochenschr** 1990 Jul 17;68(14):739–42 (Eng. Abstr.) (Ger)

COMPLICATIONS

Repeated bowel resections for eosinophilic gastroenteritis with obstruction and perforation. Case report. Wang CS, et al. **Acta Chir Scand** 1990 Apr;156(4):333–6
Eosinophilic panniculitis associated with chronic recurrent parotitis. Glass LA, et al. **Am J Dermatopathol** 1989 Dec; 11(6):555–9
Eosinophilic gastroenteritis presenting with biliary and partial duodenal obstruction. Farahvash MJ, et al.
Am J Gastroenterol 1990 Aug;85(8):1022–4
A case of variant angina associated with eosinophilia. Hirakawa Y, et al. **Am J Med** 1989 Oct;87(4):472–4
Nonallergic rhinitis with eosinophilia syndrome a precursor of the triad: nasal polyposis, intrinsic asthma, and intolerance to aspirin. Moneret–Vautrin DA, et al.
Ann Allergy 1990 Jun;64(6):513–8
Peripheral neuropathy associated with the hypereosinophilic syndrome. Werner RA, et al. **Arch Phys Med Rehabil** 1990 May;71(6):433–5
Hypereosinophilic syndrome presenting with erythroderma. Lee ML, et al. **Australas J Dermatol** 1988;29(2):95–101 (20 ref.)
Hypereosinophilic syndrome with cutaneous blisters and bowel necrosis. Parker CJ. **Australas J Dermatol** 1988; 29(2):103–6
Aquagenic pruritus associated with the idiopathic hypereosinophilic syndrome. Newton JA, et al.
Br J Dermatol 1990 Jan;122(1):103–6
B–cell lymphoma associated with eosinophilia. Watanabe K, et al. **Cancer** 1989 Oct 15;64(8):1682–5
Conjunctival chemosis in eosinophilic fasciitis [letter] Leatherbarrow B, et al. **Eye** 1989;3 (Pt 4):484–5
Acquired platelet dysfunction with eosinophilia: review of seven adult cases. Lim SH, et al. **J Clin Pathol** 1989 Sep; 42(9):950–2
Rheumatoid arthritis with eosinophilic fasciitis and pure red cell aplasia. Markusse HM, et al. **J Rheumatol** 1989 Oct; 16(10):1383–4
Compartment syndrome as a late complication of eosinophilic fasciitis. Niskanen L, et al. **J Rheumatol** 1989 Oct; 16(10):1364–5
Eosinophilic ureteritis associated with eosinophilic cholangitis: a case report. Platt ML, et al. **J Urol** 1990 Jul;144(1):127–9
Reversible dementia with idiopathic hypereosinophilic syndrome. Kaplan PW, et al. **Neurology** 1989 Oct; 39(10):1388–91
Eosinophilic pancreatitis: report of a case. Bastid C, et al. **Pancreas** 1990;5(1):104–7
Eosinophilic fasciitis with thrombocytopenia and Dupuytren's contracture. Kaklamanis P, et al.
Scand J Rheumatol 1990;19(3):245–7
Clinical spectrum of the systemic manifestations of the eosinophilia–myalgia syndrome. Varga J, et al.
Semin Arthritis Rheum 1990 Jun;19(6):313–28
[Bilateral claw deformity of the fingers due to fasciitis with eosinophilia (Shulman's syndrome). Apropos of a case] Katz D, et al. **Ann Chir Main Memb Super** 1990;9(3):229–31 (Eng. Abstr.) (Fre)
[The syndrome of blood hypereosinophilia and multianeurysmal arterial disease (letter)] Sirieix ME, et al.
Ann Med Interne (Paris) 1989;140(7):654–6 (Fre)
[An unusual reaction to a spider bite] Wechsler J, et al.
Ann Pathol 1990;10(2):139–40 (Fre)
[Eales' syndrome and hypereosinophilia] Bryselbout E, et al.
Bull Soc Ophtalmol Fr 1989 Dec;89(12):1421–4 (Eng. Abstr.) (Fre)
[Eosinophilic infiltrates of the gastrointestinal tract] Eugène C. **Gastroenterol Clin Biol** 1990;14(6–7):545–7 (56 ref.) (Fre)
[Eosinophilic fasciitis with aplastic anemia and Hashimoto's thyroiditis. Review of the literature and report of a typical example] Blaser KU, et al. **Schweiz Med Wochenschr** 1989 Dec 30;119(52):1899–906 (87 ref.) (Eng. Abstr.) (Ger)
[Chronic, fatal, neonatally–acquired cytomegalovirus disease with hypereosinophilia and multiple organ involvement] Ramelli GP, et al. **Schweiz Med Wochenschr** 1990 Apr 28; 120(17):632–40 (Eng. Abstr.) (Ger)
[Weill's syndrome with eosinophilic vasculitis, coronary aneurysms and myocardial infarction] Casazza F, et al.
G Ital Cardiol 1989 Oct;19(10):923–7 (Eng. Abstr.) (Ita)
[Hypereosinophilic syndrome and renal insufficiency] Garella G, et al. **Minerva Urol Nefrol** 1990 Apr–Jun;42(2):135–6 (Eng. Abstr.) (Ita)
[Generalized morphea–like progressive systemic sclerosis with anticentromere antibodies and eosinophilic cellulitis] Sasaki T, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Apr; 99(4):469–76 (Eng. Abstr.) (Jpn)
[A case of hypereosinophilic syndrome associated with consciousness disorder and hemiparesis] Haraoka H, et al.
Nippon Naika Gakkai Zasshi 1990 Feb 10;79(2):233–4 (Jpn)
[Restrictive cardiomyopathy] Moiseev VS, et al.
Kardiologiia 1990 Feb;30(2):114–8 (96 ref.) (Rus)
[Heart involvement in hypereosinophilia: the restrictive or the dilated type?] Moiseev SV, et al. **Ter Arkh** 1989; 61(9):79–81 (Eng. Abstr.) (Rus)
[The hypereosinophilic syndrome in a child with endomyocardial fibrosis treated surgically] Simkovic I, et al. **Rozhl Chir** 1990 Jan;69(1):27–33 (Eng. Abstr.) (Slo)
[Eosinophilic polypoid cystitis with flat carcinoma in situ of the overlying epithelium] Spitale L, et al.
Arch Esp Urol 1989 Oct;42(8):809–11 (12 ref.) (Eng. Abstr.) (Spa)
[Hypereosinophilic syndrome and acute ventricular failure] Martínez Lacasa JT, et al. **Rev Clin Esp** 1990 Jan; 186(1):26–8 (Eng. Abstr.) (Spa)
[Pleural infiltration as an unique manifestation of idiopathic hyper–eosinophilic syndrome (letter)] Panisello J, et al.
Rev Clin Esp 1989 Nov;185(8):428–9 (Spa)
[Paraneoplastic eosinophilia: hypereosinophilic syndrome and disseminated carcinoma (letter)] Rodríguez Ramírez J, et al. **Rev Clin Esp** 1990 Jan;186(1):41–2 (Spa)
[Acute myopericarditis with pulmonary infiltration and hypereosinophilia] Cano Gutiérrez C, et al.
Rev Esp Cardiol 1990 Apr;43(4):271–4 (Eng. Abstr.) (Spa)

DIAGNOSIS

Eosinophilia as a marker for chronic strongyloidiasis—use of a serum ELISA test to detect asymptomatic cases. Gill GV, et al. **Ann Trop Med Parasitol** 1989 Jun;83(3):249–52
Eosinophilic fasciitis without peripheral eosinophilia presenting as pyrexia of unknown origin. Lewis D, et al.
Br J Rheumatol 1990 Apr;29(2):147–9
Diagnostic significance of pleural fluid eosinophilia during initial thoracocentesis. Lakhotia M, et al.
Indian J Chest Dis Allied Sci 1989 Oct–Dec;31(4):259–64
Eosinophilia–myalgia syndrome masquerading as facial pain. Chesley LD, et al. **J Oral Maxillofac Surg** 1990 Sep; 48(9):980–1
Magnetic resonance imaging in the evaluation of patients with eosinophilic fasciitis. De Clerck LS, et al.
J Rheumatol 1989 Sep;16(9):1270–3
Eosinophilic cystitis presenting as invasive bladder cancer: comments on pathogenesis and management. Thijssen A, et al. **J Urol** 1990 Oct;144(4):977–9 (19 ref.)
A case of eosinophilic heart disease diagnosed by endomyocardial biopsy findings. Kawagoshi H, et al.
Jpn Heart J 1990 Mar;31(2):259–64
Fasciitis, perimyositis, myositis, polymyositis, and eosinophilia. Serratrice G, et al. **Muscle Nerve** 1990 May; 13(5):385–95 (26 ref.)
Eosinophilia, myalgia associated with L–tryptophan use: case report [see comments] Becker DM, et al. **Va Med** 1990 Feb;117:68–70 Comment in: Va Med 1990 Apr;117(4):141.
[A fascinating disease?] Eggelmeijer F, et al.
Ned Tijdschr Geneeskd 1989 Oct 14;133(41):2009–13 (Dut)
[Ungueal capillaroscopy in fasciitis with eosinophilia: a distinctive feature of systemic scleroderma. Apropos of 15 cases] Herson S, et al. **Ann Med Interne (Paris)** 1989; 140(6):440–3 (44 ref.) (Eng. Abstr.) (Fre)
[Idiopathic hypereosinophilic syndrome with predominant digestive manifestations or eosinophilic gastroenteritis? Apropos of 2 cases] Levesque H, et al.
Gastroenterol Clin Biol 1990;14(6–7):586–8 (Eng. Abstr.) (Fre)
[Weill's eosinophilic cellulitis] Read D, et al.
Rev Med Liege 1989 Nov 1;44(21):654–7 (Fre)
[Infantile acropustulosis] Klein CE, et al. **Hautarzt** 1989 Aug; 40(8):501–3 (Eng. Abstr.) (Ger)
[Acute meningitis with cerebrospinal fluid eosinophilia: neurocysticercosis] Matschke HJ, et al.
Psychiatr Neurol Med Psychol (Leipz) 1989 Sep;41(9):545–9 (Eng. Abstr.) (Ger)
[Acquired idiopathic sideroblastic anemia with cyclic hypereosinophilia of unclear significance. A case report] D'Angelo G, et al. **Minerva Med** 1990 May;81(5):433–7 (Eng. Abstr.) (Ita)
[A case of hypereosinophilic syndrome associated with eosinophilic endocarditis] Ishida T, et al.
Kokyu To Junkan 1989 Aug;37(8):909–13 (Eng. Abstr.) (Jpn)
[Idiopathic hypereosinophilic syndrome. Enterocolitis—a rare manifestation] Aksnes B, et al.
Tidsskr Nor Laegeforen 1989 Aug 30;109(24):2433–5 (Eng. Abstr.) (Nor)
[A case of malignant course of the hypereosinophilic syndrome] Kisliak NS, et al. **Gematol Transfuziol** 1990 May; 35(5):26–8 (Rus)
[A case of long–term observation of a patient with idiopathic hypereosinophilic syndrome] Grigo rev IuV, et al.
Klin Med (Mosk) 1989 Aug;67(8):106–8 (Rus)
[Differential diagnosis of diffuse eosinophilic fasciitis] Guseva NG, et al. **Revmatologiia (Mosk)** 1989 Jul–Sep;(3):14–21 (Eng. Abstr.) (Rus)
[Idiopathic hypereosinophilic syndrome—differential diagnosis problems and a case report] Uzelac S, et al.
Lijec Vjesn 1989 Jun–Jul;111(6–7):206–8 (Eng. Abstr.) (Ser)

DRUG THERAPY

Sodium cromoglycate in the treatment of eosinophilic gastroenteritis. Di Gioacchino M, et al. **Allergy** 1990 Apr; 45(3):161–6
Cimetidine in eosinophilic fasciitis [letter] Herson S, et al.
Ann Intern Med 1990 Sep 1;113(5):412–3
Low–dose alternate–day prednisone for persistent Wells' syndrome. Coldiron BM, et al. **Arch Dermatol** 1989 Dec; 125(12):1625–6
Eosinophilic pustular folliculitis (Ofuji's disease): efficacy of isotretinoin. Berbis P, et al. **Dermatologica** 1989; 179(4):214–6
Eosinophilic pustular folliculitis treated with indomethacin [letter] Kato H. **Dermatologica** 1989;179(4):217–8
Suppression by ingested eicosapentaenoic acid of the increases in nasal mucosal blood flow and eosinophilia of ryegrass–allergic reactions. Rangi SP, et al.
J Allergy Clin Immunol 1990 Feb;85(2):484–9
[Eosinophilic pustular folliculitis. Description of a clinical case treated with PUVA therapy] Calzavara–Pinton PG, et al. **G Ital Dermatol Venereol** 1990 Feb;125(1–2):49–52 (Eng. Abstr.) (Ita)
[Hypereosinophilic syndrome: report of a case] Matsuyama T, et al. **J Cardiol Suppl** 1989;22:23–4 (Jpn)

ENZYMOLOGY

Ultrastructural localization of Charcot–Leyden crystal protein (lysophospholipase) and peroxidase in macrophages, eosinophils, and extracelluiar matrix of the skin in the hypereosinophilic syndrome. Dvorak AM, et al. **Lab Invest** 1990 May;62(5):590–607

EPIDEMIOLOGY

Prevalence of intestinal parasites in a rural community in north–central Puerto Rico. Hillyer GV, et al.
Bol Asoc Med P R 1990 Mar;82(3):111–4
Eosinophilia myalgia syndrome: cases in Canada. Wilkins K, et al. **Can Dis Wkly Rep** 1989 Dec 16;15(50):251–2 (Eng, Fre)
Eosinophilia–myalgia syndrome in Canada. Wilkins K, et al.
Can Dis Wkly Rep 1990 Feb 10;16(6):28–30 (Eng, Fre)
Eosinophilia–myalgia syndrome. Wilkins K, et al.
Can Med Assoc J 1990 Jun 1;142(11):1265–6
The relationship of eosinophilia and positive skin test reactivity to respiratory symptom prevalence in a community–based population study. Mensinga TT, et al.
J Allergy Clin Immunol 1990 Jul;86(1):99–107
From the Centers for Disease Control. Eosinophilia–myalgia syndrome—New Mexico. **JAMA** 1989 Dec 8;262(22):3116
From the Centers for Disease Control. Eosinophilia–myalgia syndrome associated with ingestion of L–tryptophan—United States, through August 24, 1990. **JAMA** 1990 Oct 3;264(13):1655
Eosinophilia–myalgia syndrome. Results of national surveillance. Swygert LA, et al. **JAMA** 1990 Oct 3; 264(13):1698–703
Update: eosinophilia–myalgia syndrome associated with ingestion of L–tryptophan—United States, through August 24, 1990. **MMWR** 1990 Aug 31;39(34):587–9
Eosinophilia–myalgia syndrome—New Mexico. **MMWR** 1989 Nov 17;38(45):765–7
Eosinophilia myalgia syndrome. **N Y State J Med** 1990 Jul; 90(7):380–2

ETIOLOGY

Calla–positive acute leukaemia with t(5q;14q) translocation and hypereosinophilia—a unique entity? Baumgarten E, et al. **Acta Haematol (Basel)** 1989;82(2):85–90
Nasal eosinophilia in allergic and nonallergic rhinitis: usefulness of the nasal smear in the diagnosis of allergic rhinitis. Lans DM, et al. **Allergy Proc** 1989 Jul–Aug; 10(4):275–80
Eosinophilic myocarditis in CBA/J mice infected with Toxocara canis. Cookston M, et al. **Am J Pathol** 1990 May; 136(5):1137–45
Eosinophilic meningoencephalitis caused by

angiostrongyliasis in Thailand. Autopsy report. Tangchai P, et al. **Am J Trop Med Hyg** 1967 Jul;16(4):454–61

Tumor-associated tissue eosinophilia in the urinary bladder: is it a real relationship? Dvorák O, et al. **Appl Pathol** 1989; 7(5):294–7

A case of gastric carcinoma with massive eosinophilia and squamous differentiation. Histochemical, immunohistochemical and ultrastructural aspects. Grigolato PG, et al. **Arch Anat Cytol Pathol** 1990; 38(1–2):43–7

Colitis caused by food allergy in infants. Hill SM, et al. **Arch Dis Child** 1990 Jan;65(1):132–3

Activation of the interleukin-3 gene by chromosome translocation in acute lymphocytic leukemia with eosinophilia. Meeker TC, et al. **Blood** 1990 Jul 15; 76(2):285–9

Paraneoplastic eosinophilia. Report of a case with in vitro studies of hemopoiesis. Balducci L, et al. **Cancer** 1989 Dec 1;64(11):2250–3

Probability of malignancy in pleural fluid eosinophilia. Kuhn M, et al. **Chest** 1989 Nov;96(5):992–4

Wells' syndrome, insect bites, and eosinophils. Melski JW. **Dermatol Clin** 1990 Apr;8(2):287–93 (39 ref.)

Prospective analysis of eosinophilia in spontaneously diabetic BB rats: correlation with islet inflammation but not with diabetes development. Maruta K, et al. **Diabetes Res** 1989 Aug;11(4):173–6

Milk-sensitive eosinophilic gastroenteritis in a 10-day-old boy. Vandenplas Y, et al. **Eur J Pediatr** 1990 Jan; 149(4):244–5 (21 ref.)

Prognostic significance of eosinophilia in acute myelomonocytic leukemia in relation to induction treatment. Creutzig U, et al. **Hamatol Bluttransfus** 1990; 33:226–32

Eosinophilia myalgia syndrome: case report. Abels LF, et al. **Indiana Med** 1990 Apr;83(4):270–1

Repeated antigen challenge induces airway hyperresponsiveness with tissue eosinophilia in guinea pigs. Ishida K, et al. **J Appl Physiol** 1989 Sep;67(3):1133–9

Role of IL-5 in IL-2-induced eosinophilia. In vivo and in vitro expression of IL-5 mRNA by IL-2. Yamaguchi Y, et al. **J Immunol** 1990 Aug 1;145(3):873–7

Cow's-milk-induced erosive gastritis in an infant. el Mouzan MI, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):111–3

Eosinophilic fasciitis after allogeneic bone marrow transplantation. Markusse HM, et al. **J Rheumatol** 1990 May;17(5):692–4

Eosinophilic cystitis in a renal allograft recipient. Horner SA, et al. **J Urol** 1990 Aug;144(2 Pt 1):342–3

Aetiology of eosinophilic enteritis [letter] Hepburn NC. **Lancet** 1990 Sep 1;336(8714):571

Acute lymphoblastic leukemia with eosinophilia. Fishel RS, et al. **Medicine (Baltimore)** 1990 Jul;69(4):232–43

Radiation associated eosinophilia and monocytosis in carcinoma of the uterine cervix: a simple reliable clinical and prognostic indicator. Radhakrishna Pillai M, et al. **Neoplasma** 1990;37(1):91–6

Eosinophilic meningitis caused by Angiostrongylus cantonensis. Hsu WY, et al. **Pediatr Infect Dis J** 1990 Jun; 9(6):443–5

Eosinophilia in immigrants and returning travelers. Rogers M, et al. **R I Med J** 1990 May;73(5):189–96

Disease puzzle nears solution [news] Raphals P. **Science** 1990 Aug 10;249(4969):619

Idiopathic hypereosinophilic syndrome progressing to acute myelomonocytic leukemia with chloromas. Brown NJ, et al. **South Med J** 1989 Oct;82(10):1303–5 (16 ref.)

Blood eosinophilia and renal allograft rejection. Frenken LA, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1584–5

Correlation between blood eosinophilia and rejection crisis in renal transplants. Ianhez LE, et al. **Transplant Proc** 1987 Feb;19(1 Pt 2):1586–8

[Cerebrospinal fluid eosinophilia preceding central nervous system leukemia] Law KL, et al. **Chung Hua I Hsueh Tsa Chih** 1989 Apr;43(4):273–6 (Eng. Abstr.) **(Chi)**

[Eosinophilia; a worm infection from the tropics] Kager PA. **Ned Tijdschr Geneeskd** 1989 Nov 4;133(44):2167–70 **(Dut)**

[Urticaria with hypereosinophilia disclosing malignant T-cell lymphoma] Perrot JL, et al. **Ann Dermatol Venereol** 1989; 116(6–7):467–9 **(Fre)**

[Loa loa filariasis: cause of severe eosinophilia] Carme B, et al. **Bull Soc Pathol Exot Filiales** 1989;82(4):581–3 (Eng. Abstr.) **(Fre)**

[Eosinophilic pancreatitis: a rare manifestation of digestive allergy?] Flejou JF, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep;13(8–9):731–3 (Eng. Abstr.) **(Fre)**

[Eosinophilic cellulitis (Wells' syndrome) and stings or bites by arthropods] Leclercq M. **Rev Med Liege** 1990 Feb 1; 45(2):75–7 **(Fre)**

[Idiopathic hypereosinophilic syndrome. Description of a clinical case] Mazza F, et al. **Clin Ter** 1989 Dec 31; 131(6):387–90 (Eng. Abstr.) **(Ita)**

[A case of allergic granulomatous angitis complicated with myositis and eosinophilia] Kawaguchi R, et al. **Nippon Naika Gakkai Zasshi** 1989 Dec;78(12):1791–2 **(Jpn)**

[Primary cholangiocellular cancer of the liver with an eosinophilic leukemoid reaction] Traianova TG, et al. **Ter Arkh** 1989;61(10):44–6 **(Rus)**

[New aspects of the pathogenesis and treatment of Schulmann's eosinophilic fasciitis] Kovalev VM, et al. **Vestn Dermatol Venerol** 1989;(12):13–5 (Eng. Abstr.) **(Rus)**

GENETICS

Comment on the article by Thomson et al [letter; comment] Lakhanpal S, et al. **Arthritis Rheum** 1989 Dec;32(12):1630–1 Comment on: Arthritis Rheum 1989 Jan;32(1):96–9.

Detection of interleukin-5 messenger RNA in Reed-Sternberg cells of Hodgkin's disease with eosinophilia. Samoszuk M, et al. **Blood** 1990 Jan 1; 75(1):13–6

Acute myelogenous leukemia (FAB M1) associated with t(5;16) and eosinophilia. Report of an additional case. Sanada I, et al. **Cancer Genet Cytogenet** 1989 Nov; 43(1):139–41

[Omenn syndrome] Glastre C, et al. **Pediatrie** 1990; 45(5):301–5 (15 ref.) (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Heterogeneity of human eosinophil glucocorticoid receptor expression in hypereosinophilic patients: absence of detectable receptor correlates with resistance to corticotherapy. Prin L, et al. **Clin Exp Immunol** 1989 Dec; 78(3):383–9

Interleukin 5 is required for the blood and tissue eosinophilia but not granuloma formation induced by infection with Schistosoma mansoni. Sher A, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(1):61–5

[An anti-human eosinophil monoclonal antibody AE500 that reacts only with granulocytes from hypereosinophilic patients] Ochiai K, et al. **Arerugi** 1990 May;39(5):459–64 (Eng. Abstr.) **(Jpn)**

METABOLISM

Eosinophilic fasciitis. Increased collagen production and type I procollagen messenger RNA levels in fibroblasts cultured from involved skin. Kähäri VM, et al. **Arch Dermatol** 1990 May;126(5):613–7

The biological role of interleukin 5. Sanderson CJ. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:147–53; discussion 153–4 (31 ref.)

PARASITOLOGY

Regulation of parasite-induced eosinophilia: selectively increased interleukin 5 production in helminth-infected patients. Limaye AP, et al. **J Exp Med** 1990 Jul 1; 172(1):399–402

Human eosinophilic enteritis caused by dog hookworm Ancylostoma caninum. Prociv P, et al. **Lancet** 1990 Jun 2;335(8701):1299–302

PATHOLOGY

Myelodysplastic syndrome preceding acute myelomonocytic leukemia with dysplastic marrow eosinophilia and inv(16). Horiike S, et al. **Acta Haematol (Basel)** 1989;82(3):161–4

Evidence for the neoplastic involvement of monocytic, eosinophilic and basophilic lineages in acute myelomonocytic leukemia with eosinophilia. Yanagisawa K, et al. **Acta Haematol (Basel)** 1990;83(3):145–8

Bone marrow and spleen cell colony formation in mice infected with Schistosoma japonicum. Ishii A, et al. **Acta Med Okayama** 1990 Jun;44(3):149–53

The eosinophil. Peters MS. **Adv Dermatol** 1987;2:129–52 (100 ref.)

Capillary microscopy during eosinophilic fasciitis in 15 patients: distinction from systemic scleroderma. Herson S, et al. **Am J Med** 1990 Jun;88(6):598–600

Endomyocardial disease and eosinophilia. A clinical and pathologic spectrum. Roberts WC, et al. **Am J Med** 1969 Jan;46(1):28–42

Primary retroperitoneal angiosarcoma with eosinophilic globules. A combined light-microscopic, immunohistochemical, and ultrastructural study. Vuletin JC, et al. **Arch Pathol Lab Med** 1990 Jun;114(6):618–22

Eosinophilic fasciitis associated with inflammatory neutrophilic vasculitis. Magaro M, et al. **Br J Rheumatol** 1990 Apr;29(2):145–6

Eosinophils from hypereosinophilic patients damage endocardium of isolated feline heart muscle preparations. Shah AM, et al. **Circulation** 1990 Mar;81(3):1081–8

Peripheral neuropathy in the hypereosinophilic syndrome: a case report. Lupo I, et al. **Eur Neurol** 1989;29(5):269–72

Eosinophilic gastroenteritis: a clinicopathological study of patients with disease of the mucosa, muscle layer, and subserosal tissues. Talley NJ, et al. **Gut** 1990 Jan;31(1):54–8

Lymphadenopathic mastocytosis with eosinophilia and biclonal gammopathy [clinical conference] Frieri M, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):126–32

Eosinophilic cystitis. D'Souza C, et al. **J Assoc Physicians India** 1989 Oct;37(10):665–6 (6 ref.)

Purification and properties of peritoneal eosinophils from pediatric dialysis patients. Roberts RL, et al. **J Immunol Methods** 1990 Feb 9;126(2):205–11

Intracranial haemorrhages occurring in the idiopathic hypereosinophilic syndrome [letter] Roche S, et al. **J Neurol Neurosurg Psychiatry** 1990 May;53(5):440–1

Eosinophilic proctitis with giant cells: a manifestation of cow's milk protein intolerance. Raafat F, et al. **J Pediatr Gastroenterol Nutr** 1990 Jul;11(1):128–32

Thymoma with bone marrow eosinophilia. Fitzmaurice RJ, et al. **J R Soc Med** 1990 Apr;83(4):270–1

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 4–1990. A 53-year-old woman with cutaneous thickening and eosinophilia. **N Engl J Med** 1990 Jan 25;322(4):252–61

Liberation of eosinophil granules in the inner capsule of chronic subdural hematomas. Yamashima T, et al. **Neurochirurgia (Stuttg)** 1989 Nov;32(6):168–71

CNS chloromas in patients presenting with eosinophilia. Henson JW, et al. **Neurology** 1989 Oct;39(10):1386–8 (10 ref.)

Eosinophilic fasciitis in children. Grisanti MW, et al. **Semin Arthritis Rheum** 1989 Dec;19(3):151–7 (21 ref.)

The pathogenesis of endomyocardial fibrosis: the role of the eosinophil. Spry CJ. **Springer Semin Immunopathol** 1989; 11(4):471–7 (40 ref.)

[Hypereosinophilic syndrome with Löffler's endomyocarditis: report of an autopsy case] Yu IT, et al. **Taiwan I Hsueh Hui Tsa Chih** 1989 Jul;88(7):740–3 (Eng. Abstr.) **(Chi)**

[Eosinophilic myocarditis and pulmonary hypertension in a drug-addict. Anatomo-clinical study and brief review of the literature] Talebzadeh VC, et al. **Ann Pathol** 1990; 10(1):40–6 (52 ref.) (Eng. Abstr.) **(Fre)**

[Eosinophilic fasciitis (Shulman's syndrome): apropos of a case report] Ouadfel J, et al. **Tunis Med** 1990 Feb; 68(2):147–9 (Eng. Abstr.) **(Fre)**

[Diffuse eosinophilic gastroenteropathy] Mastragelopulos N, et al. **Leber Magen Darm** 1990 Mar;2(2):92–5 (Eng. Abstr.) **(Ger)**

[Eosinophilic folliculitis (Ofuji's disease)] Patrone P, et al. **G Ital Dermatol Venereol** 1989 Nov–Dec;124(11–12):521–3 (Eng. Abstr.) **(Ita)**

[Observation of a case of Wells syndrome: ultrastructural study] Di Gregorio C, et al. **Pathologica** 1990 Mar–Apr; 82(1078):193–8 (Eng. Abstr.) **(Ita)**

[A case of hypereosinophilic myocarditis which showed degranulated eosinophils by immunocytochemical technique] Ubukata M, et al. **Nippon Naika Gakkai Zasshi** 1989 Nov;78(11):1617–8 **(Jpn)**

[Acute myelomonocytic leukemia (M4) with CD19 antigen expression, eosinophilia and basophilia in bone marrow] Inaba T, et al. **Rinsho Ketsueki** 1989 May;30(5):726–30 (Eng. Abstr.) **(Jpn)**

[Eosinophilic cystitis] Ruiz Rubio JL, et al. **Arch Esp Urol** 1989 Apr;42(3):193–5 (11 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Clinical spectrum of eosinophilia–myalgia syndrome—California. **MMWR** 1990 Feb 16;39(6):89–91

RADIOGRAPHY

Barium studies in diffuse eosinophilic gastroenteritis. MacCarty RL, et al. **Gastrointest Radiol** 1990 Summer; 15(3):183–7

THERAPY

Treatment of eosinophilia–myalgia syndrome [letter] **N Engl J Med** 1990 Aug 9;323(6):417–8

Management of hypereosinophilic syndrome with chronic plasma- and leukapheresis. Chambers LA, et al. **Prog Clin Biol Res** 1990;337:83–5

VETERINARY

Immunodominant proteins of Sarcocystis cruzi bradyzoites isolated from cattle affected or nonaffected with eosinophilic myositis. Granstrom DE, et al. **Am J Vet Res** 1990 Jul;51(7):1151–5

Lack of autologous tissue transmission of eosinophilic plaques in cats. Moriello KA, et al. **Am J Vet Res** 1990 Jul; 51(7):995–8

Acute eosinophilic synovitis in a horse. Turner AS, et al. **Equine Vet J** 1990 May;22(3):215–7

Superficial eosinophilic gastritis in laboratory beagle dogs attributable probably to diet. Narama I, et al. **Nippon Juigaku Zasshi** 1990 Jun;52(3):581–9

Regional eosinophilic coloproctitis, typhlitis and ileitis in a dog. van der Gaag I, et al. **Vet Q** 1990 Jan;12(1):1–6

Eosinophilic rumenitis in intensively reared lambs. Piercy DW, et al. **Vet Rec** 1990 Feb 24;126(8):195

[Eosinophilic enteritis in a domestic cat] Badura A, et al. **Tierarztl Prax** 1989;17(4):412–4 (Eng. Abstr.) **(Ger)**

EOSINOPHILIA, PULMONARY see **PULMONARY EOSINOPHILIA**

EOSINOPHILIA, TROPICAL see **PULMONARY EOSINOPHILIA**

EOSINOPHILIC GRANULOMA

[Eosinophilic granuloma of the stomach] Shao YF. **Chung Hua Chung Liu Tsa Chih** 1989 May;11(3):235–6 (Eng. Abstr.) **(Chi)**

COMPLICATIONS

Eosinophilic granuloma with cord compression. Prasad VS,

et al. **Indian Pediatr** 1989 Dec;26(12):1250–4
Eosinophilic granuloma of stomach. Choksi AP, et al. **J Assoc Physicians India** 1989 Feb;37(2):177–8
[Gastric eosinophilic granuloma: a report of 23 cases] Xia XD. **Chung Hua Wai Ko Tsa Chih** 1990 Feb;28(2):95–7, 127 (Eng. Abstr.) **(Chi)**

DIAGNOSIS

Parasitic eosinophilic granuloma of the stomach resembling a submucosal tumor [letter] Kitsukawa K, et al. **Am J Gastroenterol** 1990 Feb;85(2):217–8
The case of the twice-recurrent skull lesion. Levin KJ, et al. **Hosp Pract [Off]** 1990 Sep 15;25(9):61–2
[Eosinophilic granuloma: presentation of a clinical case] Temperilli L, et al. **Medicina (Firenze)** 1989 Jul–Sep; 9(3):282–3 (Eng. Abstr.) **(Ita)**
[Fibrous pseudopolyp (eosinophilic granuloma) of the stomach] Bukiia SF, et al. **Klin Khir** 1989;(8):78 **(Rus)**

METABOLISM

Release of substance P by granuloma eosinophils in response to secretagogues in murine schistosomiasis mansoni. Weinstock JV, et al. **Cell Immunol** 1990 Feb;125(2):380–5

PATHOLOGY

Eosinophilic granuloma of the temporal bone. Quesada P, et al. **Eur Arch Otorhinolaryngol** 1990;247(3):194–6
[Differential diagnosis of destructive processes of the skull base. Aggressive polypoid eosinophilic pansinusitis with expression of carcinoembryonic antigen (CEA)] Schöttke H, et al. **HNO** 1990 May;38(5):170–3 (Eng. Abstr.) **(Ger)**
[Multiple hyalinizing granuloma of the lung (letter)] Domínguez P, et al. **Rev Clin Esp** 1990 Apr;186(6):307–8 **(Spa)**

PHYSIOPATHOLOGY

Increased pulmonary neuroendocrine cells with bombesin-like immunoreactivity in adult patients with eosinophilic granuloma. Aguayo SM, et al. **J Clin Invest** 1990 Sep;86(3):838–44

RADIOGRAPHY

Radiologic features of eosinophilic granuloma of bone. David R, et al. **AJR Am J Roentgenol** 1989 Nov;153(5):1021–6
Eosinophilic granuloma of mandible in an adult (a case report). Chowdhury AD, et al. **Australas Radiol** 1989 Nov; 33(4):406–8
Primary rib tumours in children (report of 27 cases with short literature review). Kozlowski K, et al. **Australas Radiol** 1989 Aug;33(3):210–22 (25 ref.)
Eosinophilic granuloma. The management of solitary lesions of bone. Greis PE, et al. **Clin Orthop** 1990 Aug;(257):204–11 (21 ref.)
Solitary eosinophilic granuloma of the vertebra. Roelandt W, et al. **J Belge Radiol** 1989 Dec;72(6):526–7
[Some problems concerning the radiologic diagnosis of eosinophilic granuloma of the bone] Li JM. **Chung Hua Fang She Hsueh Tsa Chih** 1989 Jun;23(3):168–9 (Eng. Abstr.) **(Chi)**
[CT in eosinophilic granuloma of the lung] Katoh S, et al. **Rinsho Hoshasen** 1990 Feb;35(2):195–200 (Eng. Abstr.) **(Jpn)**
[CT of pulmonary eosinophilic granuloma] Nambu T, et al. **Rinsho Hoshasen** 1989 Jul;34(7):811–4 (Eng. Abstr.) **(Jpn)**

SURGERY

Eosinophilic granuloma of the cervicothoracic junction. Case report. Sweasey TA, et al. **J Neurosurg** 1989 Dec; 71(6):942–4 (18 ref.)
Use of the ultrasonic surgical aspirator in the treatment of a solitary eosinophilic granuloma of the mandible: a case report. Landrito J, et al. **J Oral Maxillofac Surg** 1990 Aug; 48(8):855–8
[Treatment of facial granuloma with eosinophilia by using laser radiation] Raznatovskiĭ IM, et al. **Vestn Dermatol Venerol** 1989;(12):55–6 (Eng. Abstr.) **(Rus)**

EOSINOPHILIC LEUKEMIA, ACUTE see **LEUKEMIA, EOSINOPHILIC, ACUTE**

EOSINOPHILIC PNEUMONIA see **PULMONARY EOSINOPHILIA**

EOSINOPHILS

Effect of dietary zinc on larval burdens, tissue eosinophil numbers, and lysophospholipase activity of Ascaris suum infected mice. Laubach HE. **Acta Trop (Basel)** 1990 May; 47(4):205–11
The eosinophil. Peters MS. **Adv Dermatol** 1987;2:129–52 (100 ref.)
Eosinophils cause acute edematous injury in isolated perfused rat lungs. Rowen JL, et al. **Am Rev Respir Dis** 1990 Jul; 142(1):215–20
Simultaneous demonstration of eosinophilic granulocytes and mast cells in tissue sections containing helminths. Ball MT, et al. **Ann Trop Med Parasitol** 1990 Apr;84(2):195–6
The detection and interpretation of urinary eosinophils. Corwin HL, et al. **Arch Pathol Lab Med** 1989 Nov; 113(11):1256–8
Cyclic neutropenia in a family with evidence of monocytes, lymphocytes, plasmocytes, eosinophils and basophils cycling [letter] Cáp J, et al. **Eur J Haematol** 1989 Aug; 43(2):188–9
Eosinophilic pleural effusions. Lau MS, et al. **Hawaii Med J** 1990 Jun;49(6):206–7
Relationship between eosinophil density and T-cell activation markers in lymph nodes of patients with Hodgkin's disease. Ben-Ezra J, et al. **Hum Pathol** 1989 Dec;20(12):1181–5
Total leucocytic count, eosinophilia and cellular immune response in acute and chronic schistosomiasis. Hamadto HA, et al. **J Egypt Soc Parasitol** 1990 Jun;20(1):29–34
Preparation of large numbers of highly purified normodense human eosinophils from leukapheresis. Bach MK, et al. **J Immunol Methods** 1990 Jul 3;130(2):277–81
Isolation of eosinophils from human blood. Hansel TT, et al. **J Immunol Methods** 1990 Mar 9;127(2):153–64 (76 ref.)
Comparison of eosinophil densities in oral mucosal lichen planus and lichenoid drug reactions. Firth NA, et al. **J Oral Pathol Med** 1990 Feb;19(2):86–8
Environmental challenges reduce eosinophils, produce symptoms [letter; comment] Settler R. **Nurse Pract** 1990 Feb;15(2):7, 10 Comment on: Nurse Pract 1989 Sep;14(9):17–8, 28, 30 passim.
Extramedullary eosinophilopoiesis in the liver of Schistosoma japonicum-infected mice, with reference to hemopoietic stem cells. Maruyama H, et al. **Parasitol Res** 1990; 76(6):461–5
Eosinophil levels in the acute phase of experimental Chagas' disease. Nakhle MC, et al. **Rev Inst Med Trop Sao Paulo** 1989 Nov–Dec;31(6):384–91
[Usefulness of the circulating eosinophil count test in the diagnosis of allergic bronchial asthma] Bilancia R, et al. **Arch Monaldi Mal Torace** 1988 Mar–Apr;43(2):171–6 (Eng. Abstr.) **(Ita)**
[Evaluation of nasal eosinophils after specific provocation in the diagnosis of respiratory allergy] Verini M, et al. **Pediatr Med Chir** 1989 Jul–Aug;11(4):393–5 (Eng. Abstr.) **(Ita)**

ANALYSIS

Heterogeneity of human eosinophil glucocorticoid receptor expression in hypereosinophilic patients: absence of detectable receptor correlates with resistance to corticotherapy. Prin L, et al. **Clin Exp Immunol** 1989 Dec; 78(3):383–9
Are blood eosinophil number and activity important for the development of the late asthmatic reaction after allergen challenge? Venge P, et al. **Eur Respir J Suppl** 1989 Jun; 6:430s–434s
New series of lipoxins isolated from human eosinophils. Steinhilber D, et al. **FEBS Lett** 1989 Sep 11;255(1):143–8
Evidence of eosinophil granule major basic protein in human placenta. Wasmoen TL, et al. **J Exp Med** 1989 Dec 1; 170(6):2051–63

CYTOLOGY

Eosinophils and mast cell homogeneity of the guinea pig eyelid skin, conjunctiva, and ileum. Stock EL, et al. **Am J Anat** 1989 Dec;186(4):359–68
Effects of human recombinant interleukin 5 and 3 on the differentiation of cord blood-derived eosinophils and basophils. Ebisawa M, et al. **Arerugi** 1989 May;38(5):442–5
Regulation of human eosinophil precursor production by cytokines: a comparison of recombinant human interleukin-1 (rhIL-1), rhIL-3, rhIL-5, rhIL-6, and rh granulocyte-macrophage colony-stimulating factor. Clutterbuck EJ, et al. **Blood** 1990 May 1;75(9):1774–9
In vitro differentiation of leukemic cells to eosinophils in the presence of interleukin-5 in two cases of acute myeloid leukemia with the translocation (8;21)(q22;q22). Ema H, et al. **Blood** 1990 Jan 15;75(2):350–6
Interleukin-4 has basophilic and eosinophilic cell growth-promoting activity on cord blood cells. Favre C, et al. **Blood** 1990 Jan 1;75(1):67–73
Receptor expression and functional status of cultured human eosinophils derived from umbilical cord blood mononuclear cells. Walsh GM, et al. **Blood** 1990 Jul 1;76(1):105–11
[Studies on human basophil and eosinophil colonies in human blood mononuclear cell culture: presence of common basophil-eosinophil progenitors] Musashi M. **Hokkaido Igaku Zasshi** 1989 Sep;64(5):567–79 (Eng. Abstr.) **(Jpn)**
[In vitro growth of eosinophil colonies from normal human peripheral blood] Horie S, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 May;52(3):608–12 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Effect of ketotifen on the distribution and degranulation of uterine eosinophils in estrogen-treated rats. Soto J, et al. **Agents Actions** 1989 Nov;28(3–4):198–203
Challenge with gliadin induces eosinophil and mast cell activation in the jejunum of patients with celiac disease. Lavö B, et al. **Am J Med** 1989 Dec;87(6):655–60
Anaphylactic challenge causes eosinophil accumulation in bronchoalveolar lavage fluid of guinea pigs. Modulation by betamethasone, phenidone, indomethacin, WEB 2086, and a novel antiallergy agent, SCH 37224. Gulbenkian AR, et al. **Am Rev Respir Dis** 1990 Sep;142(3):680–5
Effect of disodium cromoglycate on deuterium oxide-induced degranulation of human eosinophils in allergic asthmatic patients in vitro. Palczyński C, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1–2):157–60
Dexamethasone ocular hypertension and eosinopenia, and glucose tolerance test. Armaly MF. **Arch Ophthalmol** 1967 Aug;78(2):193–7
Inhibition of neutrophil and eosinophil induced chemotaxis by nedocromil sodium and sodium cromoglycate. Bruijnzeel PL, et al. **Br J Pharmacol** 1990 Apr; 99(4):798–802
Eosinophil accumulation in pulmonary airways of guinea-pigs induced by exposure to an aerosol of platelet-activating factor: effect of anti-asthma drugs. Sanjar S, et al. **Br J Pharmacol** 1990 Feb;99(2):267–72
Pretreatment with rh-GMCSF, but not rh-IL3, enhances PAF-induced eosinophil accumulation in guinea-pig airways. Sanjar S, et al. **Br J Pharmacol** 1990 Jul; 100(3):399–400
Hemopoietins for eosinophils. Glycoprotein hormones that regulate the development of inflammation in eosinophilia-associated disease. Silberstein DS, et al. **Hematol Oncol Clin North Am** 1989 Sep;3(3):511–33 (145 ref.)
Density heterogeneity of eosinophil leucocytes: induction of hypodense eosinophils by platelet-activating factor. Yukawa T, et al. **Immunology** 1989 Sep;68(1):140–3
Production of eosinophil-activating factor (EAF) by peripheral blood mononuclear cells from asthma patients. Thorne KJ, et al. **Int Arch Allergy Appl Immunol** 1989; 90(4):345–51
Comparison of the generation of platelet-activating factor and leukotriene C4 in human eosinophils stimulated by unopsonized zymosan and by the calcium ionophore A23187: the effects of nedocromil sodium. Burke LA, et al. **J Allergy Clin Immunol** 1990 Jan;85(1 Pt 1):26–35
The appearance of hypodense eosinophils during interleukin-2 treatment. Sedgwick JB, et al. **J Allergy Clin Immunol** 1990 Mar;85(3):557–66
Intracellular application of guanosine-5'-O-(3-thiotriphosphate) induces exocytotic granule fusion in guinea pig eosinophils. Nüsse O, et al. **J Exp Med** 1990 Mar 1;171(3):775–86
DF3 antigen, a human epithelial cell mucin, inhibits adhesion of eosinophils to antibody-coated targets. Hayes DF, et al. **J Immunol** 1990 Aug 1;145(3):962–70
Inhibition of PAF-induced eosinophil accumulation in pulmonary airways of guinea pigs by anti-asthma drugs. Sanjar S, et al. **Jpn J Pharmacol** 1989 Oct;51(2):167–72
Retinoid-induced inhibition of eosinophil LTC4 production. Lehman PA, et al. **Prostaglandins** 1990 May;39(5):569–77
[Degranulation of human eosinophilic granulocytes by the platelet activating factor] Kroegel C, et al. **Pneumologie** 1990 Feb;44 Suppl 1:234–5 (Eng. Abstr.) **(Ger)**
[The inhibitory effect of oxatomide, an anti-allergic agent, on eosinophil-mediated and eosinophilic cell line-mediated natural cytotoxicity against bronchial epithelial cells] Chihara J, et al. **Arerugi** 1989 Oct;38(10):1180–4 (Eng. Abstr.) **(Jpn)**
[The eosinophil—the human blood cell superaffined to endotoxin] Iakovlev MIu, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):765–6 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Activation of phospholipase D in normodense human eosinophils. Minnicozzi M, et al. **Biochem Biophys Res Commun** 1990 Jul 31;170(2):540–7
Stimulated intraphagosomal release of eosinophil peroxidase and acid phosphatase in the rats spontaneously infected with Mycoplasma pulmonis: a cytochemical study. Moriguchi K, et al. **Exp Mol Pathol** 1989 Dec;51(3):220–30
NADPH:O2 oxidoreductase of human eosinophils in the cell-free system. Bolscher BG, et al. **FEBS Lett** 1990 Jul 30;268(1):269–73
Mutual influence between eosinophil peroxidase (EPO) and neutrophils: neutrophils reversibly inhibit EPO enzymatic activity and EPO increases neutrophil adhesiveness. Zabucchi G, et al. **Immunology** 1990 Apr;69(4):580–7
Platelet activating factor stimulates cyclo-oxygenase activity in guinea pig eosinophils. Concerted biosynthesis of thromboxane A2 and E-series prostaglandins. Giembycz MA, et al. **J Immunol** 1990 May 1;144(9):3489–97
[The cytochemical detection of monocytes, lymphocytes, neutrophilic and eosinophilic granulocytes by using marker enzymes] Divanian Kh, et al. **Eksp Med Morfol** 1990; 29(1):27–31 (Eng. Abstr.) **(Bul)**
[Eosinophils and active enzymes] Takeshige K. **Fukuoka Igaku Zasshi** 1989 Sep;80(9):431–5 (2 ref.) **(Jpn)**

IMMUNOLOGY

Eosinophil and basophil hypersensitivity to deuterium oxide in atopic asthmatic patients. Palczyński C, et al. **Allergol Immunopathol (Madr)** 1989 May–Jun;17(3):137–9
Eosinophil supernatant causes hyperresponsiveness of airway smooth muscle in guinea pig trachea. Aizawa T, et al. **Am Rev Respir Dis** 1990 Jul;142(1):133–7
T lymphocytes and eosinophils in allergen-induced

late-phase asthmatic reactions in the guinea pig. Frew AJ, et al. **Am Rev Respir Dis** 1990 Feb;141(2):407–13

Antigen challenge induces pulmonary airway eosinophil accumulation and airway hyperreactivity in sensitized guinea-pigs: the effect of anti-asthma drugs. Sanjar S, et al. **Br J Pharmacol** 1990 Apr;99(4):679–86

The second receptor for IgE in eosinophil effector function. Capron M, et al. **Chem Immunol** 1989;47:128–78 (134 ref.)

Why do allergic individuals accumulate more eosinophils at the site of an IgE-mediated reaction than do normal subjects? [editorial] Gleich GJ. **Clin Exp Allergy** 1990 May; 20(3):245–6

Eosinophil cytotoxicity enhancing factor: purification, characterization and immunocytochemical localization on the monocyte surface. Elsas PX, et al. **Eur J Immunol** 1990 May;20(5):1143–51

The ability of mouse monoclonal antibodies to direct the cytotoxic function of cytokine-activated human eosinophils. Silberstein DS, et al. **Hybridoma** 1990 Jun; 9(3):237–42

Fc gamma and CD11/CD18 receptor expression on normal density and low density human eosinophils. Hartnell A, et al. **Immunology** 1990 Feb;69(2):264–70

The effect of platelet-activating factor on IgE binding to, and IgE-dependent biological properties of, human eosinophils. Moqbel R, et al. **Immunology** 1990 Jun; 70(2):251–7

Granulocyte-macrophage colony-stimulating factor and interleukin-3 induce surface expression of interleukin-2 receptor p55-chain and CD4 by human eosinophils. Riedel D, et al. **Immunology** 1990 Jun;70(2):258–61

Antigen-specific T-cell factors induce isotype-like suppression of mast cell and eosinophil-rich T-cell-dependent inflammation in the intestine of mice infected with Trichinella spiralis. Parmentier HK, et al. **Int Arch Allergy Appl Immunol** 1989;90(2):144–54

Eosinophils and T-lymphocytes in late-phase allergic reactions. Frew AJ, et al. **J Allergy Clin Immunol** 1990 Mar;85(3):533–9 (58 ref.)

Eosinophils, basophils, and mast cells. Gleich GJ. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 2):1024–7

Migratory responses of eosinophil and neutrophil granulocytes from patients with asthma. Håkansson L, et al. **J Allergy Clin Immunol** 1990 Apr;85(4):743–50

Chemotactic responsiveness of eosinophils isolated from patients with inflammatory skin diseases. Morita E, et al. **J Dermatol** 1989 Oct;16(5):348–51

Characterization of interleukin 5 receptors on eosinophilic sublines from human promyelocytic leukemia (HL-60) cells. Plaetinck G, et al. **J Exp Med** 1990 Sep 1; 172(3):683–91

A serum factor that suppresses the cytotoxic function of cytokine-stimulated human eosinophils. Silberstein DS, et al. **J Exp Med** 1990 Mar 1;171(3):681–93

Tumor necrosis factor alpha/cachectin stimulates eosinophil oxidant production and toxicity towards human endothelium. Slungaard A, et al. **J Exp Med** 1990 Jun 1; 171(6):2025–41

Eosinophil degranulation. An immunologic determinant in the pathogenesis of the Mazzotti reaction in human onchocerciasis. Ackerman SJ, et al. **J Immunol** 1990 May 15;144(10):3961–9

Purification and properties of peritoneal eosinophils from pediatric dialysis patients. Roberts RL, et al. **J Immunol Methods** 1990 Feb 9;126(2):205–11

Eosinophilic alveolitis in immunologic interstitial lung disorders. Olivieri D, et al. **Lung** 1990;168 Suppl:964–73

Homology of cytotoxic protein of eosinophilic leukocytes with IgE receptor Fc epsilon RII: implications for its structure and function. Paithy L. **Mol Immunol** 1989 Dec; 26(12):1151–4

Differences in responses of rat- and guinea-pig-eosinophils to eosinophil chemotactic factors derived from Angiostrongylus cantonensis. Ishida K, et al. **Parasite Immunol** 1990 May;12(3):269–83

Protective immunity against Angiostrongylus cantonensis in rats following sensitizing infections. Yoshimura K, et al. **Parasitol Res** 1989;76(1):26–31

The activated eosinophil in allergy and asthma. Kay AB, et al. **Prog Clin Biol Res** 1989;297:183–96; discussion 196–7 (42 ref.)

[Characterization of platelet-activating factor (PAF)-receptors in neutrophilic and eosinophilic granulocytes] Ukena D, et al. **Pneumologie** 1990 Feb;44 Suppl 1:531–2 (Eng. Abstr.) (Ger)

[An anti-human eosinophil monoclonal antibody AE500 that reacts only with granulocytes from hypereosinophilic patients] Ochiai K, et al. **Arerugi** 1990 May;39(5):459–64 (Eng. Abstr.) (Jpn)

METABOLISM

Inflammatory cells and eosinophilic activity in asthmatics investigated by bronchoalveolar lavage. The effects of antiasthmatic treatment with budesonide or terbutaline. Adelroth E, et al. **Am Rev Respir Dis** 1990 Jul;142(1):91–9

Identification of an alveolar macrophage-derived activity in bronchial asthma that enhances leukotriene C4 generation by human eosinophils stimulated by ionophore A23187 as a granulocyte-macrophage colony-stimulating factor. Howell CJ, et al. **Am Rev Respir Dis** 1989 Nov; 140(5):1340–7

The presence of platelet-activating factor associated with eosinophil and/or neutrophil accumulations in the pleural fluids. Oda M, et al. **Am Rev Respir Dis** 1990 Jun; 141(6):1469–73

Superoxide generation by hypodense eosinophils from patients with asthma. Sedgwick JB, et al. **Am Rev Respir Dis** 1990 Jul;142(1):120–5

Beta 2-adrenergic receptors on eosinophils. Binding and functional studies. Yukawa T, et al. **Am Rev Respir Dis** 1990 Jun;141(6):1446–52

Eosinophil and neutrophil production of leukotriene C4 and B4: comparison of cells from asthmatic subjects and healthy donors. Aizawa T, et al. **Ann Allergy** 1990 Mar;64(3):287–92

The eosinophil granulocyte in psoriasis. Lundin A, et al. **Br J Dermatol** 1990 Feb;122(2):181–93

Release of substance P by granuloma eosinophils in response to secretagogues in murine schistosomiasis mansoni. Weinstock JV, et al. **Cell Immunol** 1990 Feb;125(2):380–5

Inhibitory effect of terfenadine on mediator release from human blood basophils and eosinophils. Nabe M, et al. **Clin Exp Allergy** 1989 Sep;19(5):515–20

The effects of recombinant granulocyte-macrophage colony-stimulating factor (GM-CSF) and interleukin-3 on the secretory capacity of human blood eosinophils. Tai PC, et al. **Clin Exp Immunol** 1990 Jun;80(3):426–34

Calcium-ionophore-induced formation of platelet-activating factor and leukotrienes by horse eosinophils: a comparative study. Asmis R, et al. **Eur J Biochem** 1990 Feb 14; 187(3):475–80

Products of neutrophils and eosinophils increase the responsiveness of human isolated bronchial tissue. Hallahan AR, et al. **Eur Respir J** 1990 May;3(5):554–8

Oxidative metabolism of human peripheral blood eosinophils and neutrophils: H2O2 production after stimulation with phorbol myristate acetate and immune complexes. Rossi GA, et al. **Eur Respir J Suppl** 1989 Jun;6:435s–440s

Release of O2- and LTC4 by murine eosinophils: role of intra- and extracellular calcium. de Andres B, et al. **Immunology** 1990 Feb;69(2):271–6

Release of leukotriene C4 (LTC4) from human eosinophils following adherence to IgE- and IgG-coated schistosomula of Schistosoma mansoni. Moqbel R, et al. **Immunology** 1990 Mar;69(3):435–42

Cellular communication in leukotriene C4 production between eosinophils and neutrophils. Kloprogge E, et al. **Int Arch Allergy Appl Immunol** 1989;90(1):20–3

Enhanced leukotriene C4 production by peripheral eosinophilic granulocytes from children with asthma. Schauer U, et al. **Int Arch Allergy Appl Immunol** 1989; 90(3):201–6

The biological role of interleukin 5. Sanderson CJ. **Int J Cell Cloning** 1990 Jan;8 Suppl 1:147–53; discussion 153–4 (31 ref.)

Blood eosinophils and eosinophil-derived proteins in allergic asthma. Durham SR, et al. **J Allergy Clin Immunol** 1989 Dec;84(6 Pt 1):931–6

Cytotoxicity of human eosinophil granule major basic protein to human nasal sinus mucosa in vitro. Hisamatsu K, et al. **J Allergy Clin Immunol** 1990 Jul;86(1):52–63

Human eosinophils express transforming growth factor alpha. Wong DT, et al. **J Exp Med** 1990 Sep 1;172(3):673–81

IgE receptor on human eosinophils (FcERII). Comparison with B cell CD23 and association with an adhesion molecule. Grangette C, et al. **J Immunol** 1989 Dec 1; 143(11):3580–8

Guinea pig alveolar eosinophils and macrophages produce leukotriene B4 but no peptido-leukotriene. Hirata K, et al. **J Immunol** 1990 Mar 1;144(5):1880–5

Extracellular deposition of eosinophil and neutrophil granule proteins in the IgE-mediated cutaneous late phase reaction. Leiferman KM, et al. **Lab Invest** 1990 May;62(5):579–89

Ubiquitinated eosinophilic granules in the inferior olivary nucleus. Kato S, et al. **Neuropathol Appl Neurobiol** 1990 Apr;16(2):135–9

[A case of hypereosinophilic myocarditis which showed degranulated eosinophils by immunocytochemical technique] Ubukata M, et al. **Nippon Naika Gakkai Zasshi** 1989 Nov;78(11):1617–8 (Jpn)

[The role of eosinophils in bronchial asthma] Palczyński C, et al. **Pol Arch Med Wewn** 1988 Jun;79(6):332–7 (38 ref.) (Pol)

PATHOLOGY

Eosinophils in atopic dermatitis. Leiferman KM. **Allergy** 1989;44 Suppl 9:20–6

Diagnostic significance of increased bronchoalveolar lavage fluid eosinophils. Allen JN, et al. **Am Rev Respir Dis** 1990 Sep;142(3):642–7

The requirement for platelets in allergen-induced late asthmatic airway obstruction. Eosinophil infiltration and heightened airway responsiveness in allergic rabbits. Coyle AJ, et al. **Am Rev Respir Dis** 1990 Sep;142(3):587–93

Eosinophilic infiltrates in epidermolysis bullosa. Roth RR, et al. **Arch Dermatol** 1990 Sep;126(9):1191–4

Alteration in the density, morphology, and biological properties of eosinophils produced by bullous pemphigoid blister fluid. Miyasato M, et al. **Arch Dermatol Res** 1989; 281(5):304–9

In vivo administration of antibody to interleukin-5 inhibits increased generation of eosinophils and their progenitors in bone marrow of parasitized mice. Rennick DM, et al. **Blood** 1990 Jul 15;76(2):312–6

Induction of eosinophilic colonies by interleukin-5 on acute myeloblastic leukaemic cells. Motoji T, et al. **Br J Haematol** 1990 Feb;74(2):169–72

Eosinophils from hypereosinophilic patients damage endocardium of isolated feline heart muscle preparations. Shah AM, et al. **Circulation** 1990 Mar;81(3):1081–8

Eosinophil infiltration in primary esophageal achalasia. A possible pathogenic role. Tøttrup A, et al. **Dig Dis Sci** 1989 Dec;34(12):1894–9

GM-CSF expands the eosinophilic compartment in chronic idiopathic neutropenia [letter] Andersson R, et al. **Eur J Haematol** 1990 May;44(5):315–6

Lamina propria eosinophils and mast cells in ulcerative colitis: comparison between Asians and Caucasians. Benfield GF, et al. **J Clin Pathol** 1990 Jan;43(1):27–31

Eosinophil-infiltrating folliculitis in childhood—report of a case. Dekio S, et al. **J Dermatol** 1989 Oct;16(5):388–91

Activated eosinophils in chronic inflammatory bowel disease [letter] Choy MY, et al. **Lancet** 1990 Jul 14;336(8707):126–7

Liberation of eosinophil granules in the inner capsule of chronic subdural hematomas. Yamashima T, et al. **Neurochirurgia (Stuttg)** 1989 Nov;32(6):168–71

Vascular lesions in the biopsied bronchus of patients with sarcoidosis changes of the endothelial cells in aggregation of eosinophils. Mochizuki I, et al. **Sarcoidosis** 1990 Mar; 7(1):35–41

Intercellular adhesion molecule-1 (ICAM-1) in the pathogenesis of asthma. Wegner CD, et al. **Science** 1990 Jan 26;247(4941):456–9

[Eosinophil kinetics] Konno M, et al. **Nippon Ketsueki Gakkai Zasshi** 1989 May;52(3):601–7 (Eng. Abstr.) (Jpn)

[Morphological studies on eosinophils in leukemia] Mori H, et al. **Rinsho Byori** 1989 Nov;37(11):1252–8 (Eng. Abstr.) (Jpn)

[Effect of carbidopa-levodopa on growth hormone secretion and absolute eosinophil count in healthy persons and those with allergic diseases] Podolec Z, et al. **Pol Arch Med Wewn** 1987 Jul;78(1):24–9 (Eng. Abstr.) (Pol)

[A case of malignant course of the hypereosinophilic syndrome] Kisliak NS, et al. **Gematol Transfuziol** 1990 May; 35(5):26–8 (Rus)

PHYSIOLOGY

The human eosinophil in inflammation. Venge P. **Agents Actions** 1990 Jan;29(1–2):122–6 (23 ref.)

The eosinophil and intrinsic asthma. Venge P, et al. **Agents Actions Suppl** 1989;28:67–74 (43 ref.)

The significance of eosinophils in mild and moderate acute cardiac allograft rejection. Gollub SB, et al. **Am J Cardiovasc Pathol** 1989;3(1):21–6

Human lung fibroblast-derived granulocyte-macrophage colony stimulating factor (GM-CSF) mediates eosinophil survival in vitro [see comments] Vancheri C, et al. **Am J Respir Cell Mol Biol** 1989 Oct;1(4):289–95 Comment in: Am J Respir Cell Mol Biol 1989 Oct;1(4):267–8.

Eosinophils and fibroblasts: the medium in the mesenchyme [comment] Weller PF. **Am J Respir Cell Mol Biol** 1989 Oct;1(4):267–8 Comment on: Am J Respir Cell Mol Biol 1989 Oct;1(4):289–95.

The effects of activated eosinophils and neutrophils on guinea pig airway epithelium in vitro. Yukawa T, et al. **Am J Respir Cell Mol Biol** 1990 Apr;2(4):341–53

Selection of U937 histiocytic lymphoma cells highly responsive to phorbol ester-induced differentiation using monoclonal antibody to the eosinophil cytotoxicity-enhancing factor. Elsas MI, et al. **Blood** 1990 Jun 15;75(12):2427–33

Chemotactic effect of PAF-acether on peritoneal eosinophils from normal rats. Martins MA, et al. **Braz J Med Biol Res** 1989;22(9):1151–4

Late eosinophil mobilization induced by PAF-acether in the pleural cavity of rats. Silva PM, et al. **Braz J Med Biol Res** 1989;22(10):1281–5

Bronchial hyperresponsiveness in asthmatic children. Correlation with macrophages and eosinophils in bronchoalvage fluid. Ferguson AC, et al. **Chest** 1989 Nov; 96(5):988–91

Estrogen regulation of an eosinophil chemotactic factor in the immature rat uterus. Lee YH, et al. **Endocrinology** 1989 Dec;125(6):3022–8

Estradiol-stimulated increases in uterine eosinophils and nuclear type II estrogen-binding sites are prevented by pertussis toxin. Lyttle CR, et al. **Endocrinology** 1989 Nov; 125(5):2773–9

The interaction between PAF, platelets and eosinophils in bronchial asthma. Page CP, et al. **Eur Respir J Suppl** 1989 Jun;6:483s–487s (42 ref.)

Chemotactic capabilities of HL-60 human myeloid leukemia cells differentiated to eosinophils. Howe RS, et al. **Exp Hematol** 1990 May;18(4):299–303

Effect of human recombinant interleukin 4 on in vitro granulopoiesis of human bone marrow cells. Kajitani H, et al. **Growth Factors** 1989;1(4):283–6

Extramedullar proliferation of eosinophil granulocytes in chronic schistosomiasis mansoni is mediated by a factor secreted by inflammatory macrophages. el-Cheikh MC, et al. **Infect Immun** 1990 Mar;58(3):816–21

Contribution of eosinophil-derived mediators in asthma. Bruijnzeel PL. **Int Arch Allergy Appl Immunol** 1989;90 Suppl 1:57–63 (30 ref.)

The eosinophil and bronchial asthma: current understanding. Gleich GJ. **J Allergy Clin Immunol** 1990 Feb;85(2):422–36 (78 ref.)
Inhibition of IgG-triggered human eosinophil function by IL-4. Baskar P, et al. **J Immunol** 1990 Mar 15;144(6):2321–6
Bimodal IgG4-mediated human basophil activation. Role of eosinophils. Beauvais F, et al. **J Immunol** 1990 May 15; 144(10):3881–90
Murine eosinophils and IL-1: alpha IL-1 mRNA detection by in situ hybridization. Production and release of IL-1 from peritoneal eosinophils. Del Pozo V, et al. **J Immunol** 1990 Apr 15;144(8):3117–22
Regulatory effect of cytokines on eosinophil degranulation. Fujisawa T, et al. **J Immunol** 1990 Jan 15;144(2):642–6
In vitro killing of microfilariae of Brugia pahangi and Brugia malayi by eosinophil granule proteins. Hamann KJ, et al. **J Immunol** 1990 Apr 15;144(8):3166–73
Identification of a novel and highly potent eosinophil chemotactic lipid in human eosinophils treated with arachidonic acid. Morita E, et al. **J Immunol** 1990 Mar 1;144(5):1893–900
Eosinophils and immune mechanisms. VI. The synergistic combination of granulocyte-macrophage colony-stimulating factor and IL-5 accounts for eosinophil-stimulation promoter activity in Schistosoma mansoni-infected mice. Secor WE, et al. **J Immunol** 1990 Feb 15;144(4):1484–9
Inhibition of neutrophil and eosinophil chemotactic responses to PAF by the PAF-antagonists WEB-2086, L-652,731, and SRI-63441. Håkansson L, et al. **J Leukoc Biol** 1990 May;47(5):449–56
The role of eosinophils in asthma. Kroegel C. **Lung** 1990;168 Suppl:5–17 (89 ref.)
The eosinophil: its role in allergic respiratory disease. Lee TH. **Respir Med** 1989 Nov;83(6):453–5
The pathogenesis of endomyocardial fibrosis: the role of the eosinophil. Spry CJ. **Springer Semin Immunopathol** 1989; 11(4):471–7 (40 ref.)
What is the role of the eosinophil? Venge P. **Thorax** 1990 Mar;45(3):161–3 (66 ref.)
[Eosinophilic granulocytes in the cerebrospinal fluid] Kölmel HW, et al. **Fortschr Neurol Psychiatr** 1990 May;58(5):191–9 (93 ref.) (Eng. Abstr.) **(Ger)**
[Effect of platelet-activating factor on nasal vascular permeability and eosinophil accumulation in guinea pigs] Shirasaki H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1990 Apr;93(4):615–21 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

A morphometric study of normodense and hypodense human eosinophils that are derived in vivo and in vitro. Caulfield JP, et al. **Am J Pathol** 1990 Jul;137(1):27–41
Granule core loss in eosinophils from a patient with aspirin-induced asthma: an electron microscopic study. Sasaki Y, et al. **Ann Allergy** 1989 Oct;63(4):306–8
The significance of ring eosinophils in humans [letter; comment] **Br J Haematol** 1989 Dec;73(4):579–81 Comment on: Br J Haematol 1989 Aug;72(4):597.
Activated eosinophils in coeliac disease [letter; comment] Colombel JF, et al. **Gut** 1990 May;31(5):583–4 Comment on: Gut 1989 Nov;30(11):1568–73.
Ultrastructural features of the developing eosinophils in bone marrow and spleen of the musk shrew, Suncus murinus. Ishizeki K, et al. **J Morphol** 1989 Dec;202(3):425–33

EPENDYMA

Ventral brain-stem compression from a subarachnoid ependymal cyst. Warf BC, et al. **Childs Nerv Syst** 1990 Jun;6(4):225–7
Comparative neuroimaging with pathologic correlates in Alexander's disease. Hess DC, et al. **J Child Neurol** 1990 Jul;5(3):248–52
Occipital lobe ependymal cyst—case report. Takeuchi T, et al. **Neurol Med Chir (Tokyo)** 1989 May;29(5):417–23 (45 ref.)

ANATOMY & HISTOLOGY

Sub/supraependymal axonal net in the brains of sharks and probable targets in parasynaptic relationship. MacDonnell MF. **Brain Behav Evol** 1989;34(4):201–11
A stereological study of the ependyma of the mouse spinal cord. With a comparative note on the choroid plexus ependyma [published erratum appears in J Anat 1990 Feb;168:279] Bjugn R, et al. **J Anat** 1989 Oct;166:171–8

CYTOLOGY

Migration of bipolar subependymal cells, precursors of the granule cells of the rat olfactory bulb, with reference to the arrangement of the radial glial fibers. Kishi K, et al. **Arch Histol Cytol** 1990 May;53(2):219–26
Radial astrocytes and ependymocytes in the spinal cord of the adult toad (Bufo bufo L.). An immunohistochemical and ultrastructural study. Bodega G, et al. **Cell Tissue Res** 1990 May;260(2):307–14

METABOLISM

Rolipram induces c-fos protein-like immunoreactivity in ependymal and glial-like cells in adult rat brain. Dragunow M, et al. **Brain Res** 1989 Nov 6;501(2):382–8
Do the ependymal cells contain vasoactive intestinal polypeptide? Kawano H, et al. **Neurosci Lett** 1989 Dec 4;106(3):249–52

PATHOLOGY

The echogenic ependymal wall in intraventricular hemorrhage: sonographic-pathologic correlation. Gaisie G, et al. **Pediatr Radiol** 1990;20(5):297–300

PHYSIOLOGY

Repair of the ependyma in hydrocephalic brains. Collins P, et al. **Neuropathol Appl Neurobiol** 1990 Feb;16(1):45–56

RADIATION EFFECTS

Changes in the hypothalamus and ependyma of the third ventricle of the brain in sheep after irradiation and hormone stimulation. Staníková A, et al. **Acta Physiol Pol** 1989 Jan-Feb;40(1):126–38

ULTRASTRUCTURE

The ependyma of goat. II. Ependymal lining of the lateral ventricles, mesencephalic canal, and fourth ventricle: scanning electron microscopic study. Rajtová V. **Gegenbaurs Morphol Jahrb** 1990;136(2):233–40
Ultrastructural study of the cellular components of the organum vasculosum lamina terminalis of the rabbit (Oryctolagus cuniculus). Del Brio MA, et al. **J Submicrosc Cytol Pathol** 1990 Apr;22(2):303–9
Supraependymal cells and fibers in the third ventricle of the domestic chicken. A scanning electron microscopic study. Hirunagi K, et al. **Z Mikrosk Anat Forsch** 1989; 103(4):529–39
[An ultrastructural investigation of changes in hypoxia in the subependymal layer of the newborn rabbit] Koshino T, et al. **Nippon Ika Daigaku Zasshi** 1990 Feb;57(1):55–63 (Eng. Abstr.) **(Jpn)**
[A scanning electron microscopy study of the ependyma in the lateral cerebral ventricle in humans] Mitro A, et al. **Bratisl Lek Listy** 1989 Nov;90(11):814–9 (Eng. Abstr.) **(Slo)**

EPENDYMOMA

An ependymoma involving the pituitary fossa [letter] Winer JB, et al. **J Neurol Neurosurg Psychiatry** 1989 Dec; 52(12):1443–4

CLASSIFICATION

A cluster classification for histologic diagnoses of CNS tumors in an epidemiologic study. Armstrong DD, et al. **Neuroepidemiology** 1990;9(1):2–16

COMPLICATIONS

Neuroradiology case of the day. Subarachnoid hemorrhage complicating an ependymoma of cauda equina. Mestayer RJ, et al. **AJR Am J Roentgenol** 1990 Jun;154(6):1342
Infratentorial intratumoral hemorrhage. Reichenthal E, et al. **Mt Sinai J Med** 1989 Sep;56(4):309–14 (29 ref.)
Acute bleeding into a filum terminale ependymoma. Herb E, et al. **Neurosurg Rev** 1990;13(3):243–5
Intracranial tumors and West syndrome. Ruggieri V, et al. **Pediatr Neurol** 1989 Sep-Oct;5(5):327–9
[Hydrocephalus and brainstem tumor of late manifestation] Vighetto A, et al. **Rev Neurol (Paris)** 1989;145(12):863–6 (Eng. Abstr.) **(Fre)**
[Spinal subarachnoid hemorrhage due to spinal ependymoma presenting findings mimicking subacute meningitis] Matsushima K, et al. **Rinsho Shinkeigaku** 1990 Feb; 30(2):199–202 (Eng. Abstr.) **(Jpn)**

CONGENITAL

Congenital choroid plexus papilloma and giant nevomelanocytic nevus: report of a case. McCune AB, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):849–51

DIAGNOSIS

Intracranial ependymoma and subependymoma: MR manifestations. Spoto GP, et al. **AJR Am J Roentgenol** 1990 Apr;154(4):837–45
An unusual case of proctalgia. Rappaport B, et al. **Ann Emerg Med** 1990 Feb;19(2):201–3
Ependymoma of the fourth ventricle: an unusual presentation. Morris K, et al. **Br J Neurosurg** 1988; 2(4):513–6
Role of the intraoperative real-time sonography in the tumours of the pineal region and third ventricle. Guiducci G, et al. **J Neurosurg Sci** 1989 Jul-Sep;33(3):259–62
Extra spinal ependymoma. Takroni T, et al. **JPMA** 1990 Jun; 40(6):139–41
Primary choroid plexus papilloma of the cerebellopontine angle: MR imaging. Martin N, et al. **Neuroradiology** 1990; 31(6):541–3
[Spinal cord ependymoma: contribution of MRI using gadolinium] Defebvre L, et al. **Rev Neurol (Paris)** 1990; 146(3):228–30 (Eng. Abstr.) **(Fre)**
[A case of large malignant choroid plexus papilloma in the third ventricle—immunohistochemical and ultrastructural studies] Sato K, et al. **No To Shinkei** 1989 Oct;41(10):973–8 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Adjunctive treatment for recurrent childhood ependymoma of the IV ventricle: chemotherapy with CDDP and MCNU. Tamura M, et al. **Childs Nerv Syst** 1990 Jun; 6(4):186–9
Limits of tumour treatment follow up by surface coil 31P magnetic resonance spectroscopy. The case of sarcosinamide-CNU treated ependymoblastoma. Le Moyec L, et al. **NMR Biomed** 1989 Jun;2(1):34–8

EPIDEMIOLOGY

Descriptive epidemiology of primary tumors of the spinal cord and spinal meninges in Los Angeles County, 1972–1985. Preston-Martin S. **Neuroepidemiology** 1990; 9(2):106–11
A clinicopathological review of spinal ependymomas in Northern Ireland. Carragher AM, et al. **Ulster Med J** 1990 Apr;59(1):51–4

GENETICS

Familial subependymomas. Honan WP, et al. **Br J Neurosurg** 1987;1(3):317–21
Cytogenetic abnormalities in human ependymomas. Stratton MR, et al. **Int J Cancer** 1989 Oct 15;44(4):579–81
Ependymomas in two sisters and a maternal male cousin with mosaicism with monosomy 22 in tumour. Savard ML, et al. **Pediatr Neurosci** 1989;15(2):80–4 (41 ref.)
[Amplification, rearrangement and over-expression of c-fos gene in human primary brain tumors] Wen Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Sep;20(3):243–5 (Eng. Abstr.) **(Chi)**

METABOLISM

Localization and significance of peanut agglutinin-binding sites on ependymoma cells. Kuratsu J, et al. **Acta Neuropathol (Berl)** 1990;79(6):634–9
Localization of basic fibroblast growth factor, a mitogen and angiogenic factor, in human brain tumors. Paulus W, et al. **Acta Neuropathol (Berl)** 1990;79(4):418–23
Melanotic ependymoma and subependymoma. Rosenblum MK, et al. **Am J Surg Pathol** 1990 Aug;14(8):729–36
Subepithelial basement membrane deposition and intermediate filament expression in choroid plexus neoplasms and ependymomas. Furness PN, et al. **Histopathology** 1990 Mar;16(3):251–5
Epidermal growth factor receptors on ependymomas and other brain tumors. Hall WA, et al. **J Neurosurg** 1990 Apr; 72(4):641–6

PATHOLOGY

Intercellular septate-like junction of neoplastic cells in myxopapillary ependymoma of the filum terminale. Ho KL. **Acta Neuropathol (Berl)** 1990;79(4):432–7
Anaplastic ependymoma of the spinal cord in childhood. A case report. Fujiyama K, et al. **Acta Pathol Jpn** 1990 May; 40(5):376–82
Intracranial ependymoma and subependymoma: MR manifestations. Spoto GP, et al. **AJNR** 1990 Jan-Feb; 11(1):83–91
Ependymoma of the ovary. A clinico-pathologic, ultrastructural and immunohistochemical investigation. A case report. Carlsson B, et al. **APMIS** 1989 Nov; 97(11):1007–12
Pigmented choroid plexus papilloma. Reimund EL, et al. **Arch Pathol Lab Med** 1990 Aug;114(8):902–5 (8 ref.)
Ependymoma of the uterosacral ligament. Duggan MA, et al. **Cancer** 1989 Dec 15;64(12):2565–71 (13 ref.)
Metastatic ependymoma of the sacrum. Miralbell R, et al. **Cancer** 1990 May 15;65(10):2353–5
Primary intracranial neoplasms in the first year of life. Asai A, et al. **Childs Nerv Syst** 1989 Aug;5(4):230–3
Subependymoma of the thoracolumbar cord. Case report. Guha A, et al. **J Neurosurg** 1989 Nov;71(5 Pt 1):781–7
Case for diagnosis. Myxopapillary ependymoma. Kanzer MD, et al. **Milit Med** 1990 Feb;155(2):87, 90
Myxopapillary ependymoma of the sacrococcygeal region. Report of a case. Maiorana A, et al. **Pathologica** 1989 Jul-Aug;81(1074):471–6
"Anemone" cell (villiform) tumor of the brain. Deck JH, et al. **Ultrastruct Pathol** 1990 Jan-Feb;14(1):87–94
Immunohistochemical study of ependymal neoplasms: histological subtypes and glial and epithelial characteristics. Kaneko Y, et al. **Virchows Arch [A]** 1990;417(2):97–103
Clear cell ependymoma. A histological variant with diagnostic implications. Kawano N, et al. **Virchows Arch [A]** 1989;415(5):467–72
[Secondary brain tumor in a boy with acute lymphoblastic leukemia] Balcárková H, et al. **Cesk Pediatr** 1989 Nov; 44(11):677–8 **(Cze)**

RADIOGRAPHY

[But the CT was normal, wasn't it?] Brouwer OF, et al. **Ned Tijdschr Geneeskd** 1990 Jun 30;134(26):1241–4 **(Dut)**

RADIONUCLIDE IMAGING

PET evaluation of spinal cord tumor using 11C-methionine. Higano S, et al. **J Comput Assist Tomogr** 1990 Mar-Apr; 14(2):297–9
Two-phase [11C]L-methionine PET in childhood brain

tumors. O'Tuama LA, et al. **Pediatr Neurol** 1990 May-Jun; 6(3):163–70

SECONDARY

Spinal metastases of intracranial ependymomas. Four case reports and review of the literature. Ernestus RI, et al. **Neurosurg Rev** 1990;13(2):147–54 (42 ref.)

SURGERY

Respiratory obstruction after posterior fossa surgery. Howard R, et al. **Anaesthesia** 1990 Mar;45(3):222–4

Prognostic factors and management of intracranial ependymomas. Papadopoulos DP, et al. **Anticancer Res** 1990 May-Jun;10(3):689–92

Intracranial ependymomas in children. Undjian S, et al. **Childs Nerv Syst** 1990 May;6(3):131–4

Intramedullary ependymoma of the spinal cord. McCormick PC, et al. **J Neurosurg** 1990 Apr;72(4):523–32

Infratentorial ependymomas in childhood: prognostic factors and treatment. Nazar GB, et al. **J Neurosurg** 1990 Mar; 72(3):408–17

Surgical treatment of intramedullary tumors (spinal cord and medulla oblongata). Analysis of 16 cases. Ahyai A, et al. **Neurosurg Rev** 1990;13(1):45–52

Outcome after operative treatment of intramedullary spinal cord tumors in adults: intermediate and long-term results in 51 patients. Cooper PR. **Neurosurgery** 1989 Dec; 25(6):855–9

Benign ependymomas of the posterior fossa in childhood. Tomita T, et al. **Pediatr Neurosci** 1988;14(6):277–85

[Ependymoma of the intradural filum terminale in adults. 20 cases] Rivierez M, et al. **Neurochirurgie** 1990; 36(2):96–107 (Eng. Abstr.) **(Fre)**

[Postoperative radiotherapy of glial tumors of the central nervous system] Kukolewska-Machnicka J, et al. **Neurol Neurochir Pol** 1989 Mar-Apr;23(2):128–31 (Eng. Abstr.) **(Pol)**

THERAPY

Non-surgical therapy for malignant brain tumours. Moseley RP, et al. **Br J Hosp Med** 1990 Jun;43(6):453–8

Recurrent intracranial ependymomas in children. Survival, patterns of failure, and prognostic factors. Goldwein JW, et al. **Cancer** 1990 Aug 1;66(3):557–63

ULTRASTRUCTURE

Microtubular aggregates within rough endoplasmic reticulum in myxopapillary ependymoma of the filum terminale. Ho KL. **Arch Pathol Lab Med** 1990 Sep;114(9):956–60

[Presacral extramedullary ependymoblastoma. Optic, ultrastructural and immunohistochemical study] Alonso Martín MJ, et al. **An Esp Podiatr** 1990 Feb;32(2):186–8 **(Spa)**

EPERYTHROZOON

IMMUNOLOGY

[Serologic progression studies using CF and ELISA for the detection of antibodies against Eperythrozoon suis infection of swine] Schuller W, et al. **Berl Munch Tierarztl Wochenschr** 1990 Jan 1;103(1):9–12 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

[Indirect hemagglutination for Eperythrozoon suis detection in experimentally and spontaneously infected swine] Baljer G, et al. **Zentralbl Veterinarmed [B]** 1989 Aug;36(6):417–23 (Eng. Abstr.) **(Ger)**

EPERYTHROZOONOSIS see under ANAPLASMATACEAE INFECTIONS

EPH GESTOSIS see GESTOSIS, EPH

EPHEDRINE

ADMINISTRATION & DOSAGE

Encapsulation of water-soluble drugs by a modified solvent evaporation method. I. Effect of process and formulation variables on drug entrapment. Alex R, et al. **J Microencapsul** 1990 Jul-Sep;7(3):347–55

ADVERSE EFFECTS

Pseudoephedrine accumulation in renal failure. Sica DA, et al. **Am J Med Sci** 1989 Oct;298(4):261–3

Coronary artery spasm and myocardial infarction in a patient with normal coronary arteries: temporal relationship to pseudoephedrine ingestion. Wiener I, et al. **Cathet Cardiovasc Diagn** 1990 May;20(1):51–3

Mixed bipolar disorder precipitated by pseudoephedrine hydrochloride. Dalton k. **South Med J** 1990 Jan;83(1):64–5

ANALOGS & DERIVATIVES

Inhibition of acetylcholinesterase by diastereomers of 2-methylamino-1-phenylpropanol and their derivatives. Ngiam TL, et al. **Chem Pharm Bull (Tokyo)** 1989 Sep; 37(9):2423–6

Noninvasive evaluation of sympathetic nervous system in human heart by positron emission tomography [see comments] Schwaiger M, et al. **Circulation** 1990 Aug; 82(2):457–64 Comment in: Circulation 1990 Aug;82(2):646–8.

Synthesis and preliminary evaluation of carbon-11-meta-hydroxyephedrine: a false transmitter agent for heart neuronal imaging. Rosenspire KC, et al. **J Nucl Med** 1990 Aug;31(8):1328–34

The metabolism of (+-)-methylephedrine in rat and man. Inoue T, et al. **Xenobiotica** 1990 Jan;20(1):99–106

N-oxidation and N-demethylation of methylephedrine by rat-liver microsomes. Inoue T, et al. **Xenobiotica** 1990 Mar; 20(3):265–71

[Behavioral study on an antitussive and expectorant, and of its constituents. I. Effects on ambulatory activity and discrete lever-press avoidance response in mice] Kuribara H, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Oct; 24(5):417–29 (Eng. Abstr.) **(Jpn)**

[Behavioral study on an antitussive and expectorant, and of its constituents. II. Effects on ambulatory activity after repeated administration, and a modification of the methamphetamine sensitivity in mice] Kuribara H, et al. **Arukoru Kenkyuto Yakubutsu Ison** 1989 Oct;24(5):430–8 (Eng. Abstr.) **(Jpn)**

ANALYSIS

[Quality evaluation of twelve species of Chinese Ephedra (ma huang)] Zhang JS, et al. **Yao Hsueh Hsueh Pao** 1989; 24(11):865–71 (Eng. Abstr.) **(Chi)**

METABOLISM

Hyperthermic and anorectic effects of oxazolidines derived from L-ephedrine in rats. Walker RB, et al. **Life Sci** 1990; 47(7):595–600

The metabolism of (+-)-methylephedrine in rat and man. Inoue T, et al. **Xenobiotica** 1990 Jan;20(1):99–106

PHARMACOLOGY

Blood flow in histamine- and allergen-induced weal and flare responses, effects of an H1 antagonist, alpha-adrenoceptor agonist and a topical glucocorticoid. Hammarlund A, et al. **Allergy** 1990 Jan;45(1):64–70

A non-invasive technique of comparing myocardial performance following epidural blockade and vasopressor therapy. Forrest AL, et al. **Br J Anaesth** 1974 Sep; 46(9):662–7

Reduced adipsin expression in murine obesity: effect of age and treatment with the sympathomimetic-thermogenic drug mixture ephedrine and caffeine. Lowell BB, et al. **Endocrinology** 1990 Mar;126(3):1514–20

Effect of ephedrine and hydrocortisone on theophylline-induced seizures in rats. Zhi JG, et al. **J Pharm Sci** 1990 Jul;79(7):647–8

Cardiopulmonary effects of ephedrine in halothane-anesthetized horses. Grandy JL, et al. **J Vet Pharmacol Ther** 1989 Dec;12(4):389–96

POISONING

Pseudoephedrine dangers [letter] Clark RF, et al. **Pediatrics** 1990 Mar;85(3):389–90

THERAPEUTIC USE

Does ephedrine influence newborn neurobehavioural responses and spectral EEG when used to prevent maternal hypotension during caesarean section? Kangas-Saarela T, et al. **Acta Anaesthesiol Scand** 1990 Jan;34(1):8–16

Ephedrine improves microcirculation in the diabetic neuropathic foot. Wollersheim H, et al. **Angiology** 1989 Dec;40(12):1030–4

The effectiveness of the nonsedating antihistamine loratadine plus pseudoephedrine in the symptomatic management of the common cold. Berkowitz RB, et al. **Ann Allergy** 1989 Oct;63(4):336–9

Loratadine-pseudoephedrine combination versus placebo in patients with seasonal allergic rhinitis. Grossman J, et al. **Ann Allergy** 1989 Oct;63(4):317–21

Prophylactic ephedrine infusion in obstetric anaesthesia [letter] Frazer RS, et al. **Br J Anaesth** 1990 May;64(5):651

Prophylactic ephedrine during spinal anaesthesia: double-blind study in patients in ASA groups I-III. Hemmingsen C, et al. **Br J Anaesth** 1989 Sep;63(3):340–2

A controlled clinical trial on the cardiovascular effects of single doses of pseudoephedrine in hypertensive patients. Chua SS, et al. **Br J Clin Pharmacol** 1989 Sep;28(3):369–72

Re: Pharmacological treatment of erections during transurethral surgery [letter] Mufti GR. **Br J Urol** 1990 Aug;66(2):219–20

Evaluation of an alpha agonist alone and in combination with a nonsteroidal antiinflammatory agent in the treatment of experimental rhinovirus colds. Sperber SJ, et al. **Bull N Y Acad Med** 1989 Jan;65(1):145–60

Serial dacryoscintigraphy before and after treatment with pseudoephedrine. Kim CK, et al. **Clin Nucl Med** 1989 Oct; 14(10):734–5

The effect of orthostatic hypotension on cerebral blood flow and middle cerebral artery velocity in autonomic failure, with observations on the action of ephedrine. Brooks DJ, et al. **J Neurol Neurosurg Psychiatry** 1989 Aug;52(8):962–6

Ephedrine-induced thermogenesis as an adjunct to cognitive restructuring and covert conditioning: a proposal for treatment of obese individuals. Zgourides GD, et al. **Percept Mot Skills** 1989 Oct;69(2):563–72

A cross-over comparison of acrivastine, pseudoephedrine and their combination in seasonal allergic rhinitis. Meran A, et al. **Rhinology** 1990 Mar;28(1):33–40

[The effects of ephedrine and phenylephrine on arterial partial pressure of oxygen] Tanaka M, et al. **Masui** 1989 Jul;38(7):917–22 (Eng. Abstr.) **(Jpn)**

EPHEMERAL FEVER

Bovine ephemeral fever. Uren MF. **Aust Vet J** 1989 Aug; 66(8):233–6 (63 ref.)

BLOOD

Clinical and pathological responses of water buffalo (Bubalus bubalis) to experimental infection with bovine ephemeral fever virus—Chinese strain. Bai WB, et al. **Aust Vet J** 1989 Nov;66(11):373–4

EPIDEMIOLOGY

Bovine ephemeral fever and rhabdoviruses endemic to Australia. Walker PJ, et al. **Aust Vet J** 1989 Dec; 66(12):398–400 (27 ref.)

An outbreak of bovine ephemeral fever in Nagasaki Prefecture in 1988. Nagano H, et al. **Nippon Juigaku Zasshi** 1990 Apr;52(2):307–14

The occurrence of ephemeral fever in Kenya, 1968–1988. Davies FG, et al. **Vet Microbiol** 1990 Apr;22(2-3):129–36

ETIOLOGY

Clinical response of cattle to experimental infection with bovine ephemeral fever virus. Young PL, et al. **Vet Rec** 1990 Jan 27;126(4):86–8

METABOLISM

Demonstration of vascular permeability changes in cattle infected with bovine ephemeral fever virus. Young PL, et al. **J Comp Pathol** 1990 Jan;102(1):55–62

4'-EPIADRIAMYCIN see EPIRUBICIN

EPICHLOROHYDRIN see under CHLOROHYDRINS

EPICONDYLITIS, LATERAL HUMERAL see TENNIS ELBOW

EPIDEMIC PAROTITIS VIRUS see MUMPS VIRUS

EPIDEMICS see DISEASE OUTBREAKS

EPIDEMIOLOGIC DETERMINANTS see EPIDEMIOLOGIC FACTORS

EPIDEMIOLOGIC FACTORS

A prevalence survey of behavioural risk factors in Taipei City, Taiwan. Koong SL, et al. **Int J Epidemiol** 1990 Mar; 19(1):154–9

EPIDEMIOLOGIC METHODS

see related META-ANALYSIS

Changes in frequency of mental disorder over time: results of repeated survey of mental disorders in the general population. **Acta Psychiatr Scand Suppl** 1989;348:1–189

Psychiatric epidemiology. Scope and principles. Strömgren E. **Acta Psychiatr Scand Suppl** 1989;348:7–9; discussion 167–78

Risk factors for adverse drug reactions—epidemiological approaches. **Agents Actions Suppl** 1990;29:1–149

Epidemiologic and methodologic problems in determining nutritional status of older persons. Proceedings of a conference. Albuquerque, New Mexico, October 19–21, 1988. **Am J Clin Nutr** 1989 Nov;50(5 Suppl):1121–235

Methodological issues in the epidemiological study of alcohol-drug problems: sources of confusion and misunderstanding. Westermeyer J. **Am J Drug Alcohol Abuse** 1990;16(1-2):47–55 (36 ref.)

Re: "Oncogenes and their applications in epidemiologic studies" [letter; comment] Brandt-Rauf PW. **Am J Epidemiol** 1990 Jun;131(6):1099–100 Comment on: Am J Epidemiol 1989 Jul;130(1):6–13.

The analysis of delays in disease reporting: methods and results for the acquired immunodeficiency syndrome. Brookmeyer R, et al. **Am J Epidemiol** 1990 Aug; 132(2):355–65

Qualitative and quantitative assessment of geographic clustering of population samples selected using different methods of random digit dialing. Davis S, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S144–55

The epidemiologic field investigation: science and judgment in public health practice. Goodman RA, et al. **Am J Epidemiol** 1990 Jul;132(1):9–16

Re: "The impact of confounder selection criteria on effect estimation [letter] Greenland S, et al. **Am J Epidemiol** 1989 Nov;130(5):1066

Assessment of the validity of a food frequency questionnaire as a measure of food use by comparison with direct

observation of domestic food stores. Horwath CC, et al. **Am J Epidemiol** 1990 Jun;131(6):1059–67

Validating survey responses to questions about gun ownership among owners of registered handguns. Kellermann AL, et al. **Am J Epidemiol** 1990 Jun; 131(6):1080–4

Issues in carrying out epidemiologic research in the elderly. Kelsey JL, et al. **Am J Epidemiol** 1989 Nov;130(5):857–66 (32 ref.)

Epigenesis theory: a mathematical model relating causal concepts of pathogenesis in individuals to disease patterns in populations. Koopman JS, et al. **Am J Epidemiol** 1990 Aug;132(2):366–90

Counterpoint from a cluster buster. Neutra RR. **Am J Epidemiol** 1990 Jul;132(1):1–8

Re: "Ordinal regression models for epidemiologic data" [letter; comment] Peterson B. **Am J Epidemiol** 1990 Apr; 131(4):745–8 Comment on: Am J Epidemiol 1989 Jan;129(1):191–204.

An assessment of error in parental occupation from the birth certificate. Shaw GM, et al. **Am J Epidemiol** 1990 Jun; 131(6):1072–9

Detecting disease clusters: the importance of statistical power. Wartenberg D, et al. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S156–66

Pharmacoepidemiology in hospitals using automated data systems. Platt R, et al. **Am J Prev Med** 1988;4(2 Suppl):39–47

Saskatchewan health data bases: a developing resource. West R. **Am J Prev Med** 1988;4(2 Suppl):25–7

Epidemiology of immunoglobulin E levels in a defined population. Criqui MH, et al. **Ann Allergy** 1990 Mar; 64(3):308–13

Biomedical science and the third world. Under the volcano. Epidemiologic problems and prospects. Smith PG. **Ann N Y Acad Sci** 1989;569:219–30 (6 ref.)

Biochemical and biological markers: implications for epidemiologic studies. Griffith J, et al. **Arch Environ Health** 1989 Nov–Dec;44(6):375–81

Risk identification by register epidemiology—a Swedish experience. Malker H. **Arh Hig Rada Toksikol** 1988 Dec; 39(4):477–87

New approaches for epidemiologic studies of mortality statistics. Puffer RR. **Bull Pan Am Health Organ** 1989; 23(4):365–83

Trends in breast cancer incidence in greater Bombay: an epidemiological assessment. Yeole BB, et al. **Bull World Health Organ** 1990;68(2):245–9

Contributions of epidemiology to psychiatric thought. Leighton AH. **Can J Psychiatry** 1990 Jun;35(5):385–9 (11 ref.)

A national calibration exercise for the British Association for the Study of Community Dentistry regional examiners. Mitropoulos CM, et al. **Community Dent Health** 1990 Jun; 7(2):179–87

A SAS program for evaluating person–years of risk in cohort studies. Yaari S, et al. **Comput Biol Med** 1989;19(5):353–9

Types of epidemiological studies in Peruvian biomedical journals. Estrada C, et al. **Epidemiol Bull** 1989;10(3):6–9

Is the bioelectrical impedance method suitable for epidemiological field studies? Deurenberg P, et al. **Eur J Clin Nutr** 1989 Sep;43(9):647–54

Application of epidemiological methodology to sports and exercise science research. Walter SD, et al. **Exerc Sport Sci Rev** 1990;18:417–48 (55 ref.)

Rapid epidemiologic assessment. **Int J Epidemiol** 1989;18(4 Suppl 2):S1–67

A review of the effects of random measurement error on relative risk estimates in epidemiological studies. de Klerk NH, et al. **Int J Epidemiol** 1989 Sep;18(3):705–12

Toxic oil syndrome [letter; comment] Raphals P. **Int J Epidemiol** 1989 Sep;18(3):723–4 Comment on: Int J Epidemiol 1987 Mar;16(1):3–6.

Development of rapid epidemiologic assessment methods to evaluate health status and delivery of health services. Smith GS. **Int J Epidemiol** 1989;18(4 Suppl 2):S2–15 (104 ref.)

The clinical utility of risk factor data. Baron JA. **J Clin Epidemiol** 1989;42(10):1013–20

Medicaid data as a resource for epidemiologic studies: strengths and limitations. Bright RA, et al. **J Clin Epidemiol** 1989;42(10):937–45

The unit fragility index: an additional appraisal of "statistical significance" for a contrast of two proportions. Feinstein AR. **J Clin Epidemiol** 1990;43(2):201–9

The inadequacy of binary models for the clinical reality of three–zone diagnostic decisions. Feinstein AR. **J Clin Epidemiol** 1990;43(1):109–13

Para–analysis, faute de mieux, and the perils of riding on a data barge. Feinstein AR. **J Clin Epidemiol** 1989; 42(10):929–35

Graphing ratio measures of effect [comment] Morgenstern H, et al. **J Clin Epidemiol** 1990;43(6):539–42 Comment on: J Clin Epidemiol 1989;42(3):289–90.

Fate of incorrectly addressed mailed questionnaires. Sandler RS, et al. **J Clin Epidemiol** 1990;43(1):45–7

A multivariate look at the menopause [editorial] Wheeler JM. **J Clin Epidemiol** 1989;42(11):1029–30

Twin half–sibs: a research design for genetic epidemiology of common dental disorders. Potter RH. **J Dent Res** 1990 Aug;69(8):1527–30

Epidemiology in search of infectious diseases: methods in outbreak investigation. Palmer SR. **J Epidemiol Community Health** 1989 Dec;43(4):311–4 (26 ref.)

Statistical modelling: the old standardisation problem in disguise? Vandenbroucke JP. **J Epidemiol Community Health** 1989 Sep;43(3):207–8 (15 ref.)

Effects of language and ethnic status on reliability and validity of the Center for Epidemiologic Studies–Depression Scale with psychiatric patients. Roberts RE, et al. **J Nerv Ment Dis** 1989 Oct; 177(10):581–92

Epidemiologic research in fibromyalgia. Felson DT. **J Rheumatol Suppl** 1989 Nov;19:7–11

Injury surveillance using hospital discharge abstracts coded by external cause of injury (E code). Guyer B, et al. **J Trauma** 1990 Apr;30(4):470–3

From the Centers for Disease Control. Proposed changes in format for presentation of notifiable disease report data. **JAMA** 1990 Jan 5;263(1):25–6, 29

Oral contraceptives, breast cancer, and lactation [letter; comment] Harlap S, et al. **Lancet** 1989 Nov 11; 2(8672):1163–4 Comment on: Lancet 1989 May 6;1(8645):973–82.

Preventing osteoporosis with exercise: a review with emphasis on methodology. Block JE, et al. **Med Hypotheses** 1989 Sep;30(1):9–19 (42 ref.)

Proposed changes in format for presentation of notifiable disease report data. **MMWR** 1989 Dec 1;38(47):805–9

The interpretation of epidemiologic studies [editorial; comment] Angell M. **N Engl J Med** 1990 Sep 20; 323(12):823–5 Comment on: N Engl J Med 1990 Sep 20;323(12):782–8.

How rare is rare? [letter] Kibel MA, et al. **Paediatr Perinat Epidemiol** 1990 Jul;4(3):371–2

Methodological considerations in research on child sexual abuse. Plunkett A, et al. **Paediatr Perinat Epidemiol** 1990 Jul;4(3):351–60 (33 ref.)

Pharmaco–epidemiological perspectives. Bergman U. **Pharm Weekbl [Sci]** 1989 Oct 20;11(5):151–4 (46 ref.)

A framework for the adaptation of psychological questionnaires for epidemiological use: an example of the Bortner Type A scale. Gallacher JE, et al. **Psychol Med** 1989 Aug;19(3):709–17

Estimating cancer mortality rates from SEER incidence and survival data. Chu KC, et al. **Public Health Rep** 1990 Jan–Feb;105(1):36–46

"Race–ethnicity": a dubious scientific concept [letter; comment] Weissman A. **Public Health Rep** 1990 Jan–Feb; 105(1):102–3 Comment on: Public Health Rep 1989 Sep–Oct;104(5):457–65.

A new statistical test for summarizing the results of independent epidemiologic studies. Gaffey WR. **Public Health Rev** 1988;16(3–4):153–62

Interim report of working group on strategies for pooling data in occupational epidemiological studies. Goldsmith JR. **Public Health Rev** 1988;16(3–4):149–52

Analysis of change over time. Andersen PK. **Rev Epidemiol Sante Publique** 1989;37(5–6):507–14

Reproductive epidemiological investigations in Baranya–County—organizational and operational aspects. Kóbor J, et al. **Sante Publique (Bucur)** 1989 Jul–Sep; 32(3):247–52

Errors–in–variables workshop. Byar DP, et al. **Stat Med** 1989 Sep;8(9):1027–9

A review of methods for misclassified categorical data in epidemiology. Chen TT. **Stat Med** 1989 Sep;8(9):1095–106; discussion 1107–8 (36 ref.)

The use of dual or multiple reports in epidemiologic studies. Marshall JR. **Stat Med** 1989 Sep;8(9):1041–9; discussion 1071–3

Correction of logistic regression relative risk estimates and confidence intervals for systematic within–person measurement error. Rosner B, et al. **Stat Med** 1989 Sep; 8(9):1051–69; discussion 1071–3

Modelling peritonitis rates and associated risk factors for individuals on continuous ambulatory peritoneal dialysis. Vonesh EF. **Stat Med** 1990 Mar;9(3):263–71

An overview of issues related to the correction of non–differential exposure measurement error in epidemiologic studies. Willett W. **Stat Med** 1989 Sep; 8(9):1031–40; discussion 1071–3 (23 ref.)

Epidemiological surveillance. Sentinella notification system new topics. **Wkly Epidemiol Rec** 1990 Jul 27;65(30):236 **(Eng, Fre)**

Survey design strategies for the study of disability. Chamie M. **World Health Stat Q** 1989;42(3):122–40

Strategies for analyzing nutritional data for epidemiological purposes—conceptual framework. Oltersdorf U, et al. **Z Ernahrungswiss** 1989 Sep;28(3):240–59 (114 ref.)

[Significance and application of an epidemiologic database] Zhou SB. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Dec;10(6):384–5 **(Chi)**

[Epidemiological value of graphic representation of the Tukey test] Moulia–Pelat JP, et al. **Med Trop (Mars)** 1989 Jul–Sep;49(3):285–8 (Eng. Abstr.) **(Fre)**

[Comparison of observed and expected person–years: a simulated approach] Luce D, et al. **Rev Epidemiol Sante Publique** 1990;38(2):153–8 (Eng. Abstr.) **(Fre)**

[Research in general pediatrics, clinical research and epidemiology: brief observations on their respective roles] Jeanneret O. **Rev Med Suisse Romande** 1989 Sep; 109(9):695–701 **(Fre)**

[Epidemiologic responsibilities of the public health service] Müller W, et al. **Off Gesundheitswes** 1989 Aug–Sep; 51(8–9):454–60 (Eng. Abstr.) **(Ger)**

[Problems in the extrapolation of attributable risk estimates] Gefeller O. **Soz Praventivmed** 1990;35(3):89–93 (Eng. Abstr.) **(Ger)**

[Community surveys as an epidemiologic research method in psychiatry] Gilboa S. **Harefuah** 1990 Mar 15; 118(6):339–41 (32 ref.) **(Heb)**

[Model for an epidemiological study of the health status of a population of health workers] Triulzi M, et al. **Ann Ig** 1989 Sep–Oct;1(5):883–98 (Eng. Abstr.) **(Ita)**

[I. Evaluation of the efficacy of a clinical intervention] **Epidemiol Prev** 1989 Sep–Dec;11(40–41):3–23 (14 ref.) **(Ita)**

[Mortality: various measurements compared] Guercilena S, et al. **Med Lav** 1989 Jul–Aug;80(4):341–7 (Eng. Abstr.) **(Ita)**

[Accuracy and reliability of epidemiologic interviews using substitute respondents] Jedrychowski W. **Przegl Epidemiol** 1989;43(2):205–12 (Eng. Abstr.) **(Pol)**

[Factors of random selection in epidemiological surveys] Kopanev VI, et al. **Sov Zdravookhr** 1989;(12):22–6 (Eng. Abstr.) **(Rus)**

[Hybrid methods for controlling confounding factors] Martín Moreno JM, et al. **Gac Sanit** 1989 May–Jun;3(12):427–32 **(Spa)**

[An anthropologic reflection on genetic epidemiology. On the need of a multidisciplinary approach] Calderón R. **Rev Sanid Hig Publica (Madr)** 1989 Jul–Aug;63(7–8):55–66 (17 ref.) (Eng. Abstr.) **(Spa)**

[Computer–based registries are useful in epidemiologic studies if used rationally] Hedlund R, et al. **Lakartidningen** 1989 Aug 30;86(35):2838–9 **(Swe)**

VETERINARY

EPISCOPE: computer programs in veterinary epidemiology. Frankena K, et al. **Vet Rec** 1990 Jun 9;126(23):573–6

EPIDEMIOLOGICAL MONITORING see **ENVIRONMENTAL MONITORING**

EPIDEMIOLOGY

Abstracts of papers presented at the twenty–third annual meeting of the Society for Epidemiologic Research. Snowbird, Utah, June 12–15, 1990. Abstracts. **Am J Epidemiol** 1990 Oct;132(4):751–826

Re: Use of the term "pharmacoepidemiology" [letter; comment] Gerstman BB. **Am J Epidemiol** 1990 Jun; 131(6):1101 Comment on: Am J Epidemiol 1990 Feb;131(2):379.

Units and terminology of radiation measurement: a primer for the epidemiologist. Kathren RL, et al. **Am J Epidemiol** 1989 Dec;130(6):1076–87 (25 ref.)

Re: "Epidemiology: questions of science, ethics, morality, and law" [letter; comment] Maclure M. **Am J Epidemiol** 1989 Dec;130(6):1257–9 Comment on: Am J Epidemiol 1989 Jan;129(1):1–18.

Public health epidemiology [editorial] Rose G. **Ann Ig** 1989 Jan–Apr;1(1–2):3–4

The health sector in developing countries: problems for the 1990s and beyond. Mosley WH, et al. **Annu Rev Public Health** 1990;11:335–58 (36 ref.)

Detection of excess disease near an exposure point: a case study. Schulman J, et al. **Arch Environ Health** 1990 May–Jun;45(3):168–74

Asymptotic distribution of an index for disease clustering. Tango T. **Biometrics** 1990 Jun;46(2):351–7

Testing for a pulse in seasonal event data. Wallenstein S, et al. **Biometrics** 1989 Sep;45(3):817–30

The incidence of medical disease in surgical patients. Kyei–Mensah K, et al. **Br J Anaesth** 1974 Aug;46(8):570–4 (15 ref.)

Epidemiology in health promotion: a Canadian perspective. White F. **Bull Pan Am Health Organ** 1989;23(4):384–96

Quality assessment. An emerging component of hospital epidemiology. Wenzel RP. **Diagn Microbiol Infect Dis** 1990 May–Jun;13(3):197–204 (45 ref.)

XIV Conference of the Latin American and Caribbean Association of Schools of Public Health. **Epidemiol Bull** 1988;9(1):1–8

Research on health profiles. Background information on mortality analysis projects. **Epidemiol Bull** 1988;9(2):1–3

Health profiles, Brazil, 1984. **Epidemiol Bull** 1988;9(2):6–12

Epidemiology and leadership in public health. Terris M. **Epidemiol Bull** 1989;10(1):9–13

An epidemiologic approach to gene–environment interaction. Ottman R. **Genet Epidemiol** 1990;7(3):177–85

Contributions of epidemiology to quality assessment and monitoring. Donabedian A. **Infect Control Hosp Epidemiol** 1990 Mar;11(3):117–21

Emerging patterns of disability distribution in developing countries. Mitchell RA, et al. **Int Disabil Stud** 1989 Oct–Dec;11(4):145–8

A consultation system constructor for medical data analysis. De Rosis F, et al. **Int J Biomed Comput** 1990 Feb; 25(1):59–82

Is molecular epidemiology a germ theory for the end of the twentieth century? Loomis D, et al. **Int J Epidemiol** 1990 Mar;19(1):1–3

Rates of domestic violence against adult women by men partners. Rath GD, et al. **J Am Board Fam Pract** 1989 Oct–Dec;2(4):227–33

Self-reported medical conditions and drug use among elderly dental patients. McDermott RE, et al. **J Can Dent Assoc** 1990 Mar;56(3):219–21

Epidemiologists and public health policy. Foxman B. **J Clin Epidemiol** 1989;42(11):1107–9

Precision and insight [comment] Murphy EA. **J Clin Epidemiol** 1990;43(3):211–4 Comment on: J Clin Epidemiol 1990;43(3):241–60.

Clinical and population epidemiology: beyond sibling rivalry? Naylor CD, et al. **J Clin Epidemiol** 1990;43(6):607–11

Clinical trials and epidemiology. Senn SJ. **J Clin Epidemiol** 1990;43(6):628–32

Clinical rounds for non–clinicians: some impressions. Walter SD, et al. **J Clin Epidemiol** 1990;43(6):613–8

Biological markers: broadening or narrowing the scope of epidemiology. Yach D. **J Clin Epidemiol** 1990;43(3):309–10

Epidemiology, ecolacy, and patient care [editorial] Lipkin M. **J Gen Intern Med** 1989 Sep–Oct;4(5):463

Population models for diseases with no recovery. Pugliese A. **J Math Biol** 1990;28(1):65–82

HIV and the epidemiologist [letter; comment] Ferrinho P. **Lancet** 1989 Dec 23–30;2(8678–8679):1523–4 Comment on: Lancet 1989 Nov 18;2(8673):1228–9.

HIV and the epidemiologist [see comments] Gillett G. **Lancet** 1989 Nov 18;2(8673):1228–9 Comment in: Lancet 1989 Dec 23–30;2(8678–8679):1523–4.

The coexistence of physical and mental illness among two samples of Oregon's chronically mentally ill. Maricle RA, et al. **New Dir Ment Health Serv** 1989 Winter;(44):97–110

Epidemiology and the European community [editorial] Hofman A. **Rev Epidemiol Sante Publique** 1990;38(3):177–8

Health problems in Galena, Kansas: a heavy metal mining Superfund site. Neuberger JS, et al. **Sci Total Environ** 1990 May 15;94(3):261–72

China: a living lab for epidemiology [news] Moffat AS. **Science** 1990 May 4;248(4955):553–5

Chaos versus noisy periodicity: alternative hypotheses for childhood epidemics. Olsen LF, et al. **Science** 1990 Aug 3;249(4968):499–504

New World epidemics [letter; comment] Sempowski ML, et al. **Science** 1990 Feb 16;247(4944):788–9 Comment on: Science 1989 Dec 8;246(4935):1245–7.

Medical geography—recent case studies and concerns. Selected papers from the Third International Symposium in Medical Geography. Kingston, Canada, 7–12 August, 1988. **Soc Sci Med** 1990;30(1):1–177

Role of epidemiology in vaccine policy. Begg N, et al. **Vaccine** 1990 Jun;8(3):180–9 (65 ref.)

Diagnostic patterns in hospital use by an urban homeless population. Morris W, et al. **West J Med** 1989 Oct; 151(4):472–6

[Information systems in epidemiology] Benes C. **Cesk Epidemiol Mikrobiol Imunol** 1989 Dec;38(6):370–4 (Eng. Abstr.) (Cze)

[The time bomb AIDS and epidemiology legislation] **Schweiz Rundsch Med Prax** 1989 Nov 28;78(48):1360 (Ger)

[Theoretical bases of the epidemiology of diseases caused by noninfectious factors] Votiakov VI, et al. **Vestn Akad Med Nauk SSSR** 1990;(5):47–52 (Eng. Abstr.) (Rus)

[The epidemiologic focus in the formulation of policies and the formation of human resources] Nájera E, et al. **Educ Med Salud** 1990 Jan–Feb;24(1):74–86 (Spa)

[Epidemiology as an instrument for a rational health policy] Rodríguez Artalejo F, et al. **Med Clin (Barc)** 1989 Nov 25;93(17):663–6 (Spa)

[Psychiatric epidemiology towards new fields] Beskow J. **Lakartidningen** 1989 Nov 1;86(44):3766 (Swe)

EDUCATION

Psychiatric epidemiology in Canada [editorial] Kates N, et al. **Can J Psychiatry** 1990 Jun;35(5):383–4

Field epidemiology training in Asia, Latin America and the Middle East. **Epidemiol Bull** 1989;10(3):14–5

The Field Epidemiology Training Programmes [letter] Malison MD, et al. **Int J Epidemiol** 1989 Dec;18(4):995–6

Clinical epidemiology fulfills critical need for physicians [letter] Davidson RA. **J Fla Med Assoc** 1989 May;76(5):444

Teaching residents to read the medical literature: a controlled trial of a curriculum in critical appraisal/clinical epidemiology. Kitchens JM, et al. **J Gen Intern Med** 1989 Sep–Oct;4(5):384–7

Field epidemiology training programs. New international health resources. Music SI, et al. **JAMA** 1990 Jun 27; 263(24):3309–11

Sociology and epidemiology in medical education: interpreting the students' response. Humphrey C, et al. **Med Educ** 1990 Mar;24(2):171–7

The Canadian Academy of Psychiatric Epidemiology: bringing together teachers, researchers and clinicians [editorial] Kates N. **Soc Psychiatry Psychiatr Epidemiol** 1990 May;25(3):115–6

[The teaching of epidemiology in Italy (letter)] Berrino F. **Epidemiol Prev** 1988 Dec;10(37):1–4 (Ita)

[Psychological aspects of training hygienist and epidemiologist physicians] Seliuzhitskii GV, et al. **Gig Sanit** 1990 Apr;(4):21–3 (Rus)

[Experience with competition–based certification of specialists in sanitary and epidemiological services] Shestopalov NV, et al. **Gig Sanit** 1990 Mar;(3):83–4 (Rus)

[Ways of improving training of hygienist physicians and epidemiologists in medical institutes] Ermakov VV, et al. **Sov Zdravookhr** 1989;(9):60–4 (Rus)

[The training and advanced study of epidemiologists at the London School of Hygiene and Tropical Medicine] Sokhin AA. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jul;(7):54–8 (Rus)

HISTORY

Epidemiologic classics. Woodward TE. **Md Med J** 1990 Mar; 39(3):267–71

Historical evolution of disease mapping in general and specifically of cancer mapping. Howe GM. **Recent Results Cancer Res** 1989;114:1–21

Research on smoking and lung cancer: a landmark in the history of chronic disease epidemiology. White C. **Yale J Biol Med** 1990 Jan–Feb;63(1):29–46

[Thomas Sydenham (on the 300–th anniversary of his death)] Aksamentov GV. **Klin Med (Mosk)** 1989 Nov;67(11):151–4 (Rus)

[S.P. Botkin's views on the importance of studies on pathomorphology for general and clinical understanding of diseases] Arkhangel'skii GV. **Klin Med (Mosk)** 1989 Dec; 67(12):127–9 (Rus)

[Georgii Pavlovich Rudnev (1899–1970)] Pokrovskii VI, et al. **Klin Med (Mosk)** 1990 Jan;68(1):148–9 (Rus)

[L.V. Gromashevskii and the beginnings of training in epidemiology in the USSR] Gol'd Elu. **Sov Med** 1990; (3):118–21 (Rus)

[Medico–geographical orientation of the works of Z.P. Solov'ev] Belov SI. **Sov Zdravookhr** 1990;(1):74–7 (Rus)

LEGISLATION & JURISPRUDENCE

Matching evidence about clustered health events with tort law requirements. Black B. **Am J Epidemiol** 1990 Jul;132(1 Suppl):S79–86

METHODS

Molecular epidemiology of coal worker's pneumoconiosis: application to risk assessment of oxidant and monokine generation by mineral dusts. Borm PJ, et al. **Exp Lung Res** 1990 Jan;16(1):57–71

The use of measures of influence in epidemiology. Helfenstein U, et al. **Int J Epidemiol** 1990 Mar;19(1):197–204

The effect of measurement errors in confounders on adjustment [letter] Nagelkerke NJ, et al. **Int J Epidemiol** 1989 Sep;18(3):732–3

[Apple II E microcomputer analysis of potentials related to an event: preliminary applications in West Africa] Hamon JF, et al. **Med Trop (Mars)** 1990 Apr;50(2):245–8 (Eng. Abstr.) (Fre)

STANDARDS

Re: "Epidemiology: questions of science, ethics, morality, and law" [letter; comment] Last JM. **Am J Epidemiol** 1989 Nov;130(5):1073–4 Comment on: Am J Epidemiol 1989 Jan;129(1):1–18.

[Methods of standardizing relative survival rates using rectal cancer in East Germany as an example] Möhner M, et al. **Arch Geschwulstforsch** 1989;59(5):361–6 (Eng. Abstr.) (Ger)

[Evaluation of the quality of planning of anti–epidemic measures by the sanitary–epidemiological stations of the Ukraine] Proklina TL, et al. **Gig Sanit** 1989 Jul;(7):58–60 (Rus)

STATISTICS & NUMERICAL DATA

Analysis of a disease transmission model in a population with varying size. Busenberg S, et al. **J Math Biol** 1990; 28(3):257–70

[Development of epidemiologic studies of multiple sclerosis] Cendrowski W. **Postepy Hig Med Dosw** 1989;43(1):103–17 (49 ref.) (Eng. Abstr.) (Pol)

TRENDS

Demographic and epidemiologic trends today. Doll R. **Arzneimittelforschung** 1989 Aug;39(8A):943–6; discussion 946–7

Epidemiology today: 'a thought–tormented world'. Susser M. **Int J Epidemiol** 1989 Sep;18(3):481–8

Clinical epidemiology: further consideration. Tobacman JK, et al. **J Clin Epidemiol** 1990;43(7):633–5

Geographic epidemiology. Buck AA. **Md Med J** 1989 Oct; 38(10):833–8

Epidemiology and health policy: how do we stop the band playing? Beaglehole R. **N Z Med J** 1990 Jul 11; 103(893):323–5 (16 ref.)

[Public health and epidemiology preparing the way for medical progress] Gostomzyk JG. **Off Gesundheitswes** 1989 Dec;51(12):731–2 (Ger)

[The Alma–Ata Declaration and the development of sanitary and epidemiologic services in Kazakhstan] Klebanov IaA, et al. **Gig Sanit** 1989 Jun;(6):31–4 (Rus)

[Social epidemiology—its basic goals and tasks] Garin NS. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Dec;(12):74–81 (42 ref.) (Rus)

EPIDERMAL CYST

Intradiploic epidermoid cysts of the skull: report of 10 cases and review of the literature. Ciappetta P, et al. **Acta Neurochir (Wien)** 1990;102(1–2):33–7 (47 ref.)

Epidermoid cyst of the spleen: a clinico–pathologic correlation. Huang TY, et al. **Indiana Med** 1990 May; 83(5):326–8

A life–threatening epidermoid cyst of the floor of the mouth: report of a case. Zachariades N, et al. **J Oral Maxillofac Surg** 1990 Apr;48(4):400–3

Intracranial epidermoid cysts. Howng SL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1990 Feb;6(2):81–7

COMPLICATIONS

Frontal bone epidermoid—a rare cause of proptosis. Chowdury CR, et al. **Br J Ophthalmol** 1990 Jul;74(7):445–6

[Luxation of an anterior chamber lens caused by secondary serous epithelial cyst] Ruiz Moreno JM, et al. **J Fr Ophtalmol** 1989;12(4):313–5 (Eng. Abstr.) (Fre)

[Benign presacral tumors as a cause of mechanical obstruction] Wolf G, et al. **Chirurg** 1989 Jul;60(7):488–91 (Ger)

CONGENITAL

[Retro–rectal cystic tumors of developmental origin in adults. Apropos of 2 cases] Leborgne J, et al. **Chirurgie** 1989; 115(8):565–71 (24 ref.) (Eng. Abstr.) (Fre)

[Epidermoid cyst of the iris] Rossazza C, et al. **J Fr Ophtalmol** 1989;12(8–9):579–81 (Eng. Abstr.) (Fre)

DIAGNOSIS

Magnetic resonance imaging of the intracranial epidermoid. Ishikawa M, et al. **Acta Neurochir (Wien)** 1989; 101(3–4):108–11

Trichilemmal cyst of the scalp: MR imaging [letter] Adachi N, et al. **AJR Am J Roentgenol** 1990 Feb;154(2):423–4

Epidermoid cyst of the spleen presenting as a generalized peritonitis. Panossian DH, et al. **Am Surg** 1990 May; 56(5):295–8 (53 ref.)

Intracranial epidermoid tumors. A continuing diagnostic challenge. Panagopoulos KP, et al. **Arch Neurol** 1990 Jul; 47(7):813–6

Intracerebral epithelial cyst: immunohistological diagnosis and endoneurosurgical treatment. Clark WC, et al. **Br J Neurosurg** 1989;3(4):507–12

Unusual presentation of tuberculosis of the head and neck region. Report of three cases. el–Hakim IE, et al. **Int J Oral Maxillofac Surg** 1989 Aug;18(4):194–6

Cranial and spinal tumors with meningitic onset. Lunardi P, et al. **Ital J Neurol Sci** 1990 Apr;11(2):145–51 (73 ref.)

Epidermoid splenic cyst detected on a sports physical examination. Levin M, et al. **J Adolesc Health Care** 1989 Nov;10(6):551–3

Sonographic appearance of epidermoid cyst of the testis. Maxwell AJ, et al. **JCU** 1990 Mar–Apr;18(3):188–90

Epidermoid of the quadrigeminal cistern—case report. Maeda Y, et al. **Neurol Med Chir (Tokyo)** 1990 Jan;30(1):59–62

Epidermoid tumors of Meckel's cave: case report and review of the literature. Miyazawa N, et al. **Neurosurgery** 1989 Dec;25(6):951–5 (14 ref.)

Sonographic characteristics of epidermoid cyst of testicle. Bahnson RR, et al. **Urology** 1990 Jun;35(6):508–10

[Epidermoid cyst of the testis in children] López López JA, et al. **Arch Fr Pediatr** 1989 Nov;46(9):665–6 (Eng. Abstr.) (Fre)

[Large epidermoid cyst of the posterior cranial fossa] Schultze J, et al. **Rontgenblatter** 1990 Feb;43(2):50–3 (Eng. Abstr.) (Ger)

[Possibilities of ultrasonic studies in the diagnosis of extra–organ tumors of the small pelvis] Orlova LP, et al. **Sov Med** 1989;(12):83–5 (Rus)

[Non–parasitic cysts of the spleen in children] Tsap NA, et al. **Vestn Khir** 1989 Aug;144(8):98–9 (Rus)

[Errors in the diagnosis and treatment of diseases and injuries of the distant phalanges of the fingers] Usol'tseva EV. **Vestn Khir** 1989 Dec;144(12):95–100 (Eng. Abstr.) (Rus)

[Otoneurological examination in a case of epidermoid cyst of the cerebellopontine angle] Márquez Dorsch FJ, et al. **Acta Otorrinolaringol Esp** 1988 Jul–Aug;39(4):251–3 (10 ref.) (Eng. Abstr.) (Spa)

ETIOLOGY

Epithelial retention cyst of the neck after chest flap reconstruction [letter] Toriumi DM, et al. **Ear Nose Throat J** 1989 Aug;68(8):638–41

Iatrogenic cholesteatoma of the neck. Fliss DM, et al. **Head Neck** 1989 Nov–Dec;11(6):558–61 (22 ref.)

An intratendinous epidermoid cyst after trauma. O'Hara JJ, et al. **J Hand Surg [Am]** 1990 May;15(3):477–9

Recurrent multiple epidermoid inclusion cysts following rhinoplasty—an unusual complication. Grocutt M, et al. **J Laryngol Otol** 1989 Dec;103(12):1214–6

GENETICS

[Gardner syndrome] Török L, et al. **Hautarzt** 1990 Feb; 41(2):83–6 (Eng. Abstr.) (Ger)

IMMUNOLOGY

Papillomavirus antigen in the epidermoid cyst of the sole.

Immunohistochemical and ultrastructural study.
Yanagihara M, et al. **J Cutan Pathol** 1989 Dec;16(6):375–81
[Detection of papillomavirus common antigens in plantar epidermoid cysts] Inaba Y, et al.
Nippon Hifuka Gakkai Zasshi 1990 Feb;100(2):199–203 (19 ref.) (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Microbiology of infected epidermal cysts. Brook I.
Arch Dermatol 1989 Dec;125(12):1658–61
Bacteria in epidermal cysts [letter] Valentine MC.
Arch Dermatol 1990 Aug;126(8):1103

PATHOLOGY

Multiple cystic lesions. Steatocystoma multiplex. Magid ML, et al. **Arch Dermatol** 1990 Jan;126(1):101, 104
Cock's peculiar tumour. Bunker CB, et al.
Clin Exp Dermatol 1989 May;14(3):237–9
Radiology pathology conference. Olson SR, et al.
Clin Imaging 1989 Dec;13(4):327–31
Hair shafts in epidermoid cysts [letter; comment] Requena Caballero L. **Dermatologica** 1990;180(3):186–7 Comment on: Dermatologica 1989;179(1):29–31.
A case of squamous cell carcinoma arising in an epidermal cyst. Shah LK, et al. **Indian J Pathol Microbiol** 1989 Apr; 32(2):138–40
An epidermoid cyst with a seborrheic verruca-like cyst wall.
Chun SI, et al. **J Dermatol** 1990 Apr;17(4):260–3
Proliferating trichilemmal tumor with apocrine sweat glands.
Dekio S, et al. **J Dermatol** 1990 Jun;17(6):391–3
An unusually-formed appearance epidermoid cyst of the plantar region—a case report. Kwan FC, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1990 Apr; 6(4):213–7
Double intracranial tumours of maldevelopmental origin—teratoma at the pineal region and an epidermoid cyst in the fourth ventricle. Yamaki T, et al.
Neurochirurgia (Stuttg) 1990 May;33(3):88–90
Fibrous hamartoma of infancy presenting as an inflamed epidermoid cyst [letter] Westphal SL, et al.
Pediatr Dermatol 1990 Jun;7(2):157
Epidermoid cyst traversing the pons into the fourth ventricle. Case report. Iihara K, et al. **Surg Neurol** 1989 Nov; 32(5):377–81
[A huge Wilson-Jones proliferating trichilemmal cyst] Cavelier-Balloy B, et al. **Ann Dermatol Venereol** 1989; 116(11):850–2 **(Fre)**
[Proliferating trichilemmal cyst of the hair] Verola O, et al. **Ann Dermatol Venereol** 1989;116(11):852–3 **(Fre)**
[Malignant transformation of an intracranial epidermoid cyst] Michenet P, et al. **Ann Pathol** 1989;9(5):360–2 (Eng. Abstr.) **(Fre)**
[Epidermoid cyst of the testis: a report of two cases] Uchida K, et al. **Hinyokika Kiyo** 1989 Oct;35(10):1815–8 (Eng. Abstr.) **(Jpn)**
[Histological diagnosis of brain tumors: (9) Dermoid, epidermoid] Kobayashi T. **No Shinkei Geka** 1990 Feb; 18(2):115–20 (21 ref.) **(Jpn)**
[Disseminated sebocystomatosis (steatocystoma multiplex, sebocystomatosis] Lańcucki J, et al. **Przegl Dermatol** 1989 Sep–Dec;76(5–6):422–5 (Eng. Abstr.) **(Pol)**
[A large epidermoid cyst of the epiglottis] Bobrov VM, et al. **Vestn Otorinolaringol** 1990 Mar–Apr;(2):62–3 **(Rus)**

PHYSIOPATHOLOGY

Treatment of intracranial epidermoid tumors [letter; comment] Lunardi P, et al. **Neurosurgery** 1990 Apr; 26(4):717 Comment on: Neurosurgery 1989 Apr;24(4):568–73.

RADIOGRAPHY

Epidermoid cyst of the fourth ventricle. Bret P, et al.
Br J Neurosurg 1988;2(1):109–13
Epidermoid and cholesterol cysts in the apex of the petrous bone. King TT, et al. **Br J Neurosurg** 1989;3(4):451–61
Epidermoid cyst of the spleen: a case report and review of the literature. Younger KA, et al. **Br J Radiol** 1990 Aug; 63(752):652–3
Radiology pathology conference. Olson SR, et al.
Clin Imaging 1989 Dec;13(4):327–31
Intramedullary epidermoid cyst evaluated by computed tomographic scan and magnetic resonance imaging: case report. Penisson-Besnier I, et al. **Neurosurgery** 1989 Dec; 25(6):955–9 (19 ref.)

SURGERY

Long-term results of surgical treatment of cerebello-pontine angle epidermoids. Lunardi P, et al.
Acta Neurochir (Wien) 1990;103(3–4):105–8
Sebaceous cyst excision with minimal surgery. Klin B, et al. **Am Fam Physician** 1990 Jun;41(6):1746–8
Improved surgical technique for epidermoid cysts of the vocal fold. Hirano M, et al. **Ann Otol Rhinol Laryngol** 1989 Oct;98(10):791–5
Giant epidermoid cysts of the skull. Dias PS, et al.
Br J Neurosurg 1989;3(1):51–7
Surgical treatment of intracranial dermoid and epidermoid cysts in children. Fornari M, et al. **Childs Nerv Syst** 1990 Mar;6(2):66–70
Cerebellopontine angle epidermoid cysts: a report on 30 cases. deSouza CE, et al.
J Neurol Neurosurg Psychiatry 1989 Aug;52(8):986–90
A new surgical approach for treating infected epidermoid cysts using delayed primary closure. Miyata T, et al.
Jpn J Surg 1989 Sep;19(5):532–4
Cranial dermoid and epidermoid cysts. Ozgen T, et al.
Neurochirurgia (Stuttg) 1990 Jan;33(1):16–9 (16 ref.)
Operative treatment of intracranial epidermoid cysts and cholesterol granulomas: report of 21 cases. Altschuler EM, et al. **Neurosurgery** 1990 Apr;26(4):606–13; discussion 614
Long-term results of the surgical treatment of spinal dermoid and epidermoid tumors. Lunardi P, et al. **Neurosurgery** 1989 Dec;25(6):860–4
Removing sebaceous cysts. Banerjee AK. **Practitioner** 1989 Sep 8;233(1474):1130, 1132
Treatment of sebaceous cysts. Comaish S. **Practitioner** 1989 May 8;233(1468):700–1
[Multiple cavernous hemangioma accompanied by epidermoid cyst of the left hand and benign mesenchymoma of the right foot—report of a case] Chen YT.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1986 Mar;2(1):39, 41 **(Chi)**
[Epidermoid cyst of the testis] Lorentzen T, et al.
Ugeskr Laeger 1990 Aug 6;152(32):2315–6 (Eng. Abstr.) **(Dan)**
[CO2 laser treatment of the glottic sulcus and of epidermoid cyst. Technic and results] Remacle M, et al.
Acta Otorhinolaryngol Belg 1989;43(4):343–50 (Eng. Abstr.) **(Fre)**
[Epidermoid cyst of the spleen in a newborn infant. Prenatal diagnosis and partial splenectomy] Todde G, et al.
Chir Pediatr 1989;30(3):172–4 (23 ref.) (Eng. Abstr.) **(Fre)**
[Splenic cyst—a rare cause of epigastric expansion] Uranüs S, et al. **Langenbecks Arch Chir** 1990;375(2):76–80 (Eng. Abstr.) **(Ger)**
[A case of epidermoid cyst of the testis] Liberti M, et al.
G Chir 1989 Jul-Aug;10(7–8):387–8 (Eng. Abstr.) **(Ita)**

EPIDERMAL GROWTH FACTOR see **EPIDERMAL GROWTH FACTOR-UROGASTRONE**

EPIDERMAL GROWTH FACTOR RECEPTORS see **RECEPTORS, EPIDERMAL GROWTH FACTOR-UROGASTRONE**

EPIDERMAL GROWTH FACTOR-UROGASTRONE

Structure-function relationships in epidermal growth factor (EGF) and transforming growth factor-alpha (TGF-alpha). Campbell ID, et al. **Biochem Pharmacol** 1990 Jul 1;40(1):35–40
Epidermal growth factor labeled beta-amanitin-poly-L-ornithine: preparation and evidence for specific cytotoxicity. Bermbach U, et al.
Biochemistry 1990 Jul 24;29(29):6839–45
Epidermal growth factor. Carpenter G, et al.
J Biol Chem 1990 May 15;265(14):7709–12 (84 ref.)
The structure of (xylose)2glucose-O-serine 53 found in the first epidermal growth factor-like domain of bovine blood clotting factor IX. Hase S, et al. **J Biol Chem** 1990 Feb 5;265(4):1858–61
Identification of a disaccharide (Xyl-Glc) and a trisaccharide (Xyl2-Glc) O-glycosidically linked to a serine residue in the first epidermal growth factor-like domain of human factors VII and IX and protein Z and bovine protein Z. Nishimura H, et al. **J Biol Chem** 1989 Dec 5; 264(34):20320–5
Conformational and receptor binding properties of human EGF and TGF-alpha second loop fragments. Han KH, et al. **J Mol Recognit** 1988 Jun;1(3):116–23
Solution conformations of the B-loop fragments of human transforming growth factor alpha and epidermal growth factor by 1H nuclear magnetic resonance and restrained molecular dynamics. Han KH, et al.
Proc Natl Acad Sci U S A 1990 Apr;87(7):2718–22

ADMINISTRATION & DOSAGE

Maternally administered epidermal growth factor stimulates fetal growth in the rat. Jansson T, et al.
Acta Physiol Scand 1990 Feb;138(2):245–6
Effect of orally-administered epidermal growth factor on intestinal iron absorption and mucosal permeability. Raja KB, et al. **Cell Biochem Funct** 1989 Jul;7(3):157–63
Epidermal growth factor receptor-mediated selective cytotoxicity of antitumor agents toward human xenografts and murine syngeneic solid tumors. Amagase H, et al.
Jpn J Cancer Res 1989 Jul;80(7):670–8

ANALYSIS

On the presence and localization of epidermal and nerve growth factors in human whole saliva. Glantz PO, et al.
Acta Odontol Scand 1989 Oct;47(5):287–92
Changes in gastric EGF, EGF receptors and acidity during healing of gastric ulcer in the rat. Hansson HA, et al.
Acta Physiol Scand 1990 Feb;138(2):241–2
Epidermal growth factor in human aqueous humor. Parelman JJ, et al. **Am J Ophthalmol** 1990 May 15;109(5):603–4
Epidermal growth factor in breast cyst fluids. Relationships with the morphology of cyst epithelium. Boccardo F, et al. **Ann N Y Acad Sci** 1990;586:137–42
Epidermal growth factor and prolactin in human breast cyst fluid. Possible correlations with GCDFP-15. Collette J, et al. **Ann N Y Acad Sci** 1990;586:146–57
Epidermal growth factor and insulinlike growth factor-I in human breast cyst fluid. Wang DY, et al.
Ann N Y Acad Sci 1990;586:158–60
Human epidermal growth factor for the stratification of synovial lining layer and neovascularisation in rheumatoid arthritis. Shiozawa S, et al. **Ann Rheum Dis** 1989 Oct; 48(10):820–8
Epidermal growth factor levels in human breast cyst fluid. Battaglia F, et al. **Anticancer Res** 1989 Nov-Dec; 9(6):1661–3
The expression of EGF receptors, EGF-like factors and c-myc in ovarian and cervical carcinomas and their potential clinical significance. Kohler M, et al.
Anticancer Res 1989 Nov-Dec;9(6):1537–47
Oestradiol and epidermal growth factor in breast cyst fluid. Lai LC, et al. **Anticancer Res** 1989 Nov-Dec;9(6):1853–6
Quantitative analysis of epidermal growth factor in human benign prostatic hyperplasia and prostatic carcinoma and its prognostic significance. Shaikh N, et al.
Anticancer Res 1990 Jul-Aug;10(4):873–4
Epidermal growth factor-like immunoreactivity in human endometrium. Iahihara S, et al.
Asia Oceania J Obstet Gynaecol 1990 Jun;16(2):165–8
Saliva from cystic fibrosis patients contains an unusual form of epidermal growth factor. Aubert B, et al.
Biochem Biophys Res Commun 1990 Aug 16;170(3):1144–50
Transforming growth factor alpha and epidermal growth factor levels in normal human gastrointestinal mucosa. Cartlidge SA, et al. **Br J Cancer** 1989 Nov;60(5):657–60
Relationship between epidermal growth factor and dehydroepiandrosterone and its sulphate in bresst cyst fluid. Lai LC, et al. **Br J Cancer** 1989 Sep;60(3):320–3
Immunohistochemical demonstration of epidermal growth factor in human gastric cancer xenografts of nude mice. Yoshiyuki T, et al. **Cancer** 1990 Feb 15;65(4):953–7
A potential role for epidermal growth factor/alpha-transforming growth factor in human parturition. Romero R, et al.
Eur J Obstet Gynecol Reprod Biol 1989 Oct;33(1):55–60
Epidermal growth factor in urine of pregnant women and in amniotic fluid throughout pregnancy. Watanabe H.
Gynecol Endocrinol 1990 Mar;4(1):43–50
EGF and TGF-alpha, the ligands of hyperproduced EGFR in human esophageal carcinoma cells, act as autocrine growth factors. Yoshida K, et al. **Int J Cancer** 1990 Jan 15;45(1):131–5
Gastric ulcer is accompanied by a decrease of epidermal growth factor in gastric juice and saliva. Hansen G, et al.
J Clin Chem Clin Biochem 1989 Sep;27(9):539–45
A sensitive enzyme immunoassay for human epidermal growth factor. Determination of hEGF in human serum and urine and pharmacokinetics in mouse. Hayashi T, et al. **J Pharmacobiodyn** 1989 Jul;12(7):410–5
Expression of human epidermal growth factor and its receptor in esophageal cancer. Mukaida H, et al.
Jpn J Surg 1990 May;20(3):275–82
The correlation of epidermal growth factor with invasion and metastasis in human gastric cancer. Onda M, et al.
Jpn J Surg 1990 May;20(3):269–74
Fibroblast mitogens in swine milk include an epidermal growth factor-related peptide. Tan TJ, et al.
Regul Pept 1990 Jan;27(1):61–74
[Detection of epidermal growth factor-like factors in various skin tumors] Hagedorn M, et al. **Z Hautkr** 1990 Jun; 65(6):575–7 (Eng. Abstr.) **(Ger)**
[Immunohistochemical study on epidermal growth factor and its receptor in human pancreatic carcinoma: preliminary report] Yamanaka Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Jul;90(7):1130 **(Jpn)**
[Assay of epidermal growth factor in body fluids and the clinical significance] Hirata Y. **Nippon Rinsho** 1990 Feb;48 Suppl:145–50 **(Jpn)**
[Immunohistochemical studies on the expression of epidermal growth factor (EGF) in human colorectal cancers] Takemura K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1990 May;87(5):1160–7 (Eng. Abstr.) **(Jpn)**
[Increase in the level of polypeptide growth factors and their receptors in induced carcinogenesis and regeneration of the intestinal mucosa in rats] Fil'chenkov AA, et al.
Eksp Onkol 1990;12(4):17–21 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Epiderstatin, a new inhibitor of the mitogenic activity induced by epidermal growth factor. I. Taxonomy, fermentation, isolation and characterization. Osada H, et al. **J Antibiot (Tokyo)** 1989 Nov;42(11):1599–606
Epiderstatin, a new inhibitor of the mitogenic activity induced by epidermal growth factor. II. Structure elucidation. Sonoda T, et al. **J Antibiot (Tokyo)** 1989 Nov; 42(11):1607–9
Arrest of epidermal growth factor-dependent growth in fetal hepatocytes after ethanol exposure. Henderson GI, et al.
J Clin Invest 1989 Oct;84(4):1287–94

BIOSYNTHESIS

Effects of temperature on Escherichia coli overproducing

beta-lactamase or human epidermal growth factor. Chalmers JJ, et al. **Appl Environ Microbiol** 1990 Jan; 56(1):104–11

Renal synthesis of epidermal growth factor is unchanged by vitamin D deficiency. Goodyer PR, et al. **Can J Physiol Pharmacol** 1990 Jun;68(6):733–6

Estrogen regulates the synthesis of epidermal growth factor in mouse uterine epithelial cells. Huet-Hudson YM, et al. **Mol Endocrinol** 1990 Mar;4(3):510–23

Induction of a novel epidermal growth factor–secreting cell lineage by mucosal ulceration in human gastrointestinal stem cells. Wright NA, et al. **Nature** 1990 Jan 4; 343(6253):82–5

Macula densa cells of mouse kidney do not synthesize epidermal growth factor precursor mRNA. Atkin BM, et al. **Nephron** 1990;54(4):313–7

Transformation of NIH3T3 fibroblasts by an expression vector for the human epidermal growth factor precursor. Heidaran MA, et al. **Oncogene** 1990 Aug;5(8):1265–70

[Biosynthesis of alloprotein] Koide H, et al. **Nippon Rinsho** 1990 Jan;48(1):208–13 (18 ref.) **(Jpn)**

BLOOD

Human serum and plasma have different sources of epidermal growth factor. Lev-Ran A, et al. **Am J Physiol** 1990 Sep; 259(3 Pt 2):R545–8

Elevated blood serum levels of epidermal growth factor in some patients with gastric cancer. Pawlikowski M, et al. **Endokrynol Pol** 1989;40(4):149–53

DRUG EFFECTS

Effect of phenytoin medication on the metabolism of epidermal growth factor receptor in cultured gingival fibroblasts. Modéer T, et al. **J Periodont Res** 1990 Mar; 25(2):120–7

GENETICS

Chemical and functional characterization of a fragment of C1-s containing the epidermal growth factor homology region. Thielens NM, et al. **Biochemistry** 1990 Apr 10; 29(14):3570–8

Epidermal growth factor gene expression in human breast cancer biopsy samples: relationship to estrogen and progesterone receptor gene expression. Dotzlaw H, et al. **Cancer Res** 1990 Jul 15;50(14):4204–8

Modulation of pro-epidermal growth factor, pro-transforming growth factor alpha and epidermal growth factor receptor gene expression in human renal carcinomas. Petrides PE, et al. **Cancer Res** 1990 Jul 1; 50(13):3934–9

Molecular interactions between the protein products of the neurogenic loci Notch and Delta, two EGF-homologous genes in Drosophila. Fehon RG, et al. **Cell** 1990 May 4; 61(3):523–34

Defective epidermal growth factor gene expression in mice with polycystic kidney disease. Gattone VH 2d, et al. **Dev Biol** 1990 Mar;138(1):225–30

Molecular characterization of a gene of the 'EGF family' expressed in undifferentiated human NTERA2 teratocarcinoma cells. Ciccodicola A, et al. **EMBO J** 1989 Jul;8(7):1987–91

The first EGF-like domain from human factor IX contains a high-affinity calcium binding site. Handford PA, et al. **EMBO J** 1990 Feb;9(2):475–80

Prostaglandin endoperoxide synthase contains an EGF-like domain. Toh H. **FEBS Lett** 1989 Dec 4;258(2):317–9

A new familial syndrome with impaired function of three related peptide growth factors. Hoepffner HJ, et al. **Hum Genet** 1989 Oct;83(3):209–16

Expression and characterization of human factor IX and factor IX-factor X chimeras in mouse C127 cells. Lin SW, et al. **J Biol Chem** 1990 Jan 5;265(1):144–50

Regulation by EGF is maintained in an overexpressed chimeric EGFR/neu receptor tyrosine kinase. Lehväslaiho H, et al. **J Cell Biochem** 1990 Mar;42(3):123–33

Expression of the epidermal growth factor gene in mouse lachrymal gland: comparison with that in the submandibular gland and kidney. Kasayama S, et al. **J Mol Endocrinol** 1990 Feb;4(1):31–6

Expression of epidermal growth factor, transforming growth factor-alpha and their receptor genes in human gastric carcinomas; implication for autocrine growth. Yoshida K, et al. **Jpn J Cancer Res** 1990 Jan;81(1):43–51

Changes in gene expression after temporary renal ischemia. Safirstein R, et al. **Kidney Int** 1990 Jun;37(6):1515–21

Epidermal growth factor deficiency associated with diabetes mellitus. Kasayama S, et al. **Proc Natl Acad Sci U S A** 1989 Oct;86(19):7644–8

Delayed gastric ulcer healing after extirpation of submandibular glands is sex-dependent. Wingren U, et al. **Scand J Gastroenterol** 1989 Nov;24(9):1102–6

Unusual pattern of accumulation of mRNA encoding EGF-related protein in sea urchin embryos. Yang Q, et al. **Science** 1989 Nov 10;246(4931):806–8

[Human epidermal growth factor gene is expressed in saccharomyces cerevisiae] Huang BR. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Oct; 11(5):331–7 (Eng. Abstr.) **(Chi)**

[Localization of epidermal growth factor and nerve growth factor mRNAs in mouse submandibular gland by a simplified in situ hybridization with riboprobes] Noji S, et al. **Radioisotopes** 1989 Sep;38(9):366–72 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Human epidermal growth factor (EGF) receptor sequence recognized by EGF competitive monoclonal antibodies. Evidence for the localization of the EGF-binding site. Wu DG, et al. **J Biol Chem** 1989 Oct 15;264(29):17469–75

High-affinity epidermal growth factor binding is specifically reduced by a monoclonal antibody, and appears necessary for early responses. Bellot F, et al. **J Cell Biol** 1990 Feb; 110(2):491–502

ISOLATION & PURIFICATION

Purification and partial characterization of a bovine epidermal growth factor-like polypeptide. Byatt JC, et al. **Biochem Int** 1990;20(6):1179–87

The epidermal growth factor precursor isolated from murine kidney membranes. Chemical characterization and biological properties. Breyer JA, et al. **J Biol Chem** 1990 Sep 25;265(27):16564–70

Receptor-purified, Bolton-Hunter radioiodinated, recombinant, human epidermal growth factor: an improved radioligand for receptor studies. Kermode JC, et al. **J Recept Res** 1989–90;9(6):429–40

METABOLISM

Epidermal growth factor is resistant to plasmin. van Setten GB, et al. **Acta Ophthalmol (Copenh)** 1990 Apr;68(2):230–1

Gastric juice immunoreactive epidermal growth factor levels in patients with peptic ulcer disease. Calabrò A, et al. **Am J Gastroenterol** 1990 Apr;85(4):404–7

Salivary epidermal growth factor in patients with and without acid peptic disease. Maccini DM, et al. **Am J Gastroenterol** 1990 Sep;85(9):1102–4

Colloidal bismuth subcitrate inhibits peptic degradation of gastric mucus and epidermal growth factor in vitro. Slomiany BL, et al. **Am J Gastroenterol** 1990 Apr; 85(4):390–3

Internalization of EGF in perfused rat liver is independent of the degree of receptor occupancy. Sato H, et al. **Am J Physiol** 1990 May;258(5 Pt 1):G682–9

Polyamines and epidermal growth factor in monocrotaline-induced pulmonary hypertension. Gillespie MN, et al. **Am Rev Respir Dis** 1989 Nov;140(5):1463–6

Epidermal growth factor binding and action on tympanic membranes. O'Daniel TG, et al. **Ann Otol Rhinol Laryngol** 1990 Jan;99(1):80–4

Retinoic acid and epidermal growth factor binding in retinoid-mediated invasion suppressed human lung carcinoma cells. Fazely F, et al. **Anticancer Res** 1990 May-Jun;10(3):667–70

Similar induction of the hepatic EGF receptor in vivo by EGF and partial hepatectomy. Johansson S, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):661–6

Translocation of protein kinase C to membranes induced by TNF does not cause the inhibition of EGF binding to human wish cells. Katoh T, et al. **Biochem Biophys Res Commun** 1990 Apr 30;168(2):690–5

Modulation of EGF-receptors by phorbol ester in small intestinal crypt cells. Baliga BS, et al. **Biochem Int** 1990; 20(1):161–8

Rate constants for binding, dissociation, and internalization of EGF: effect of receptor occupancy and ligand concentration. Waters CM, et al. **Biochemistry** 1990 Apr 10;29(14):3563–9

Epidermal growth factor and transforming growth factor alpha bind differently to the epidermal growth factor receptor. Winkler ME, et al. **Biochemistry** 1989 Jul 25; 28(15):6373–8

Membrane vesicles of A431 cells contain one class of epidermal growth factor binding sites. Berkers JA, et al. **Biochim Biophys Acta** 1990 May 22;1052(3):453–60

Immunoreactive human epidermal growth factor concentrations in amniotic fluid, umbilical artery and vein serum, and placenta in full-term and preterm infants. Scott SM, et al. **Biol Neonate** 1989;56(5):246–51

The anchorage-dependent and -independent growth of a human SCC cell line: the roles of TGF alpha/EGF and TGF beta. McLeod C, et al. **Br J Cancer** 1990 Feb; 61(2):267–9

Epidermal growth factor binding in intracranial neoplasms: preliminary biochemical and clinicopathological findings. Whittle IR, et al. **Br J Neurosurg** 1988;2(2):211–5

Regulation of the epidermal growth factor receptor by growth-modulating agents: effects of staurosporine, a protein kinase inhibitor. Friedman B, et al. **Cancer Res** 1990 Feb 1;50(3):533–8

Transforming growth factor receptors in liver regeneration following partial hepatectomy in the rat. Gruppuso PA, et al. **Cancer Res** 1990 Mar 1;50(5):1464–9

Modulation of epidermal growth factor receptors by retinoic acid in ME180 cells. Zheng ZS, et al. **Cancer Res** 1990 Feb 15;50(4):1201–5

The epidermal growth factor receptor and its ligands. Wells A. **Cancer Treat Res** 1989;47:143–68 (234 ref.)

Inhibition of [125I]epidermal growth factor binding to murine fibroblasts and keratinocytes by irradiation with UV-B light. Evidence for a protein kinase C-independent mechanism. Brooks G, et al. **Carcinogenesis** 1990 Jul; 11(7):1223–7

Both tumour-promoting and non-promoting phorbol esters inhibit [125I]EGF binding and stimulate the phosphorylation of an 80 kd protein kinase C substrate protein in intact quiescent swiss 3T3 cells. Brooks G, et al. **Carcinogenesis** 1990 Apr;11(4):667–72

Tumour progression in experimental oral carcinogenesis is associated with changes in EGF and TGF-beta receptor expression and altered responses to these growth factors. Game SM, et al. **Carcinogenesis** 1990 Jun;11(6):965–73

Differential mechanism for the inhibition of epidermal growth factor binding to its receptor on mouse keratinocytes by anthrones and phorbol esters. Imamoto A, et al. **Carcinogenesis** 1990 Sep;11(9):1543–9

Epidermal growth factor in human tear fluid: increased release but decreased concentrations during reflex tearing. van Setten GB. **Curr Eye Res** 1990 Jan;9(1):79–83

Role of liver and intestines in the degradation of epidermal growth factor. Konturek SJ, et al. **Digestion** 1990; 45(4):202–11

EGF receptor-binding activity in the urine of normal horses and horses affected by chronic laminitis. Grosenbaugh DA, et al. **Domest Anim Endocrinol** 1990 Jul;7(3):277–89

Epidermal growth factor binding induces a conformational change in the external domain of its receptor. Greenfield C, et al. **EMBO J** 1989 Dec 20;8(13):4115–23

Epidermal growth factor (EGF) binding, EGF-dependent autophosphorylation and activity of tyrosine-specific protein kinase in hepatic membrane fractions from fetal, newborn, adult and partially hepatectomized rats. Satoh Y, et al. **Endocrinol Jpn** 1989 Aug;36(4):579–86

Regulation of insulin-like growth factor I and stage-specific levels of epidermal growth factor in stage synchronized rat testes. Bartlett JM, et al. **Endocrinology** 1990 Aug; 127(2):747–58

Plasma growth hormone pattern regulates epidermal growth factor (EGF) receptor messenger ribonucleic acid levels and EGF binding in the rat liver. Ekberg S, et al. **Endocrinology** 1989 Oct;125(4):2158–66

Immunohistochemical localization of epidermal growth factor-like activity in the hamster ovary with a polyclonal antibody. Roy SK, et al. **Endocrinology** 1990 Mar; 126(3):1309–17

Growth factor and electrolyte concentration in human breast cyst fluid. Hamed H, et al. **Eur J Cancer** 1990 Apr; 26(4):479–80

Epidermal growth factor and oestradiol in human breast cyst fluid. Lai LC, et al. **Eur J Cancer** 1990 Apr;26(4):481–4

The effect of 1.25 dihydroxyvitamin D3 on binding and internalization of epidermal growth factor in cultures cells. Studies on BT-20 cells using quantitative electron microscope autoradiography. Frappart L, et al. **Exp Cell Res** 1989 Oct;184(2):329–41

Reduction of EGF receptor levels in human tumor cells transfected with an antisense RNA expression vector. Yamada H, et al. **Exp Cell Res** 1989 Sep;184(1):90–8

Structure-function analysis of epidermal growth factor: site directed mutagenesis and nuclear magnetic resonance. Dudgeon TJ, et al. **FEBS Lett** 1990 Feb 26;261(2):392–6

Epidermal growth factor induces tyrosine phosphorylation of epidermal growth factor receptors not occupied with ligand in intact A431 cells. Sorokin AB, et al. **FEBS Lett** 1990 Jul 30;268(1):121–4

Immunoreactive epidermal growth factor concentrations in follicular fluid obtained from in vitro fertilization. Hofmann GE, et al. **Fertil Steril** 1990 Aug;54(2):303–7

Morphologic demonstration of receptor-mediated endocytosis of epidermal growth factor by isolated bile duct epithelial cells. Ishii M, et al. **Gastroenterology** 1990 May;98(5 Pt 1):1284–91

Increased epidermal growth factor receptors in gastric carcinomas. Pfeiffer A, et al. **Gastroenterology** 1990 Apr; 98(4):961–7

Characterization of epidermal growth factor receptor in rat buccal mucosal cells. Wang SL, et al. **Int J Biochem** 1990; 22(6):669–75

Controlled proteolysis of mouse epidermal growth factor. An RP-HPLC and 1H-n.m.r. study. Menegatti E, et al. **Int J Pept Protein Res** 1989 Sep;34(3):161–5

2,3,7,8-Tetrachlorodibenzo-p-dioxin reduces high-affinity binding of epidermal growth factor to cell surface receptors in C3H 10T1/2 cells. Moriya M, et al. **J Biochem Toxicol** 1986 Dec;1(4):45–54

Partial purification and characterization of bovine liver aspartyl beta-hydroxylase. Gronke RS, et al. **J Biol Chem** 1990 May 25;265(15):8558–65

Characterization of the functional defect in factor IX Alabama. Evidence for a conformational change due to high affinity calcium binding in the first epidermal growth factor domain. McCord DM, et al. **J Biol Chem** 1990 Jun 25;265(18):10250–4

Epidermal growth factor receptor binding is not a simple one-step process. Mayo KH, et al. **J Biol Chem** 1989 Oct 25;264(30):17838–44

Binding properties of biotinylated epidermal growth factor to its receptor on cultured cells and tissue sections. Spitzer E, et al. **J Cell Biochem** 1989 Oct;41(2):47–56

Characterization of internalization and endosome formation of epidermal growth factor in transfected NIH-3T3 cells by computerized image-intensified three-dimensional fluorescence microscopy. Benveniste M, et al. **J Cell Biol** 1989 Nov;109(5):2105–15

Amiloride inhibits constitutive internalization and increases

the surface number of epidermal growth factor receptors in intact rat hepatocytes. Gladhaug IP, et al. **J Cell Physiol** 1990 Apr;143(1):188–95

Epidermal growth factor receptor defects in leprechaunism. A multiple growth factor–resistant syndrome. Reddy SS, et al. **J Clin Invest** 1989 Nov;84(5):1569–76

Inhibition of 125I–epidermal growth factor binding to cultured keratinocytes by antiproliferative molecules gamma interferon, cyclosporin A, and transforming growth factor–beta. Nickoloff BJ, et al. **J Invest Dermatol** 1989 Dec;93(6):799–803

Characterization of insulin–like growth factor I and epidermal growth factor receptors in meningioma. Kurihara M, et al. **J Neurosurg** 1989 Oct;71(4):538–44

Regulation of epidermal growth factor receptor metabolism in gingival fibroblasts by phenytoin in vitro. Modéer T, et al. **J Oral Pathol Med** 1990 Apr;19(4):188–91

Epidermal growth factor binding and steroid receptor content in human benign prostatic hyperplasia. Lubrano C, et al. **J Steroid Biochem** 1989;34(1–6):499–504

Reduced renal prepro–epidermal growth factor mRNA and decreased EGF excretion in ARF. Safirstein R, et al. **Kidney Int** 1989 Nov;36(5):810–5

Identification and localization of epidermal growth factor and its receptor in the human glomerulus. Yoshioka K, et al. **Lab Invest** 1990 Aug;63(2):189–96

Epidermal growth factor in serum, urine, submandibular glands and kidneys of diabetic mice. Hwang DL, et al. **Life Sci** 1990;47(8):679–85

Epidermal growth factor concentrations in submandibular salivary gland, plasma, liver, bile, kidneys and urine of male mice: dynamics after phenylephrine injection. Tuomela T. **Life Sci** 1990;46(17):1197–206

Differentiation–related expression of epidermal growth factor receptors in human lung carcinoma demonstrated histochemically by biotinylated epidermal growth factor. Kayser K, et al. **Mod Pathol** 1990 May;3(3):327–31

Functional state of the epidermal growth factor–receptor complexes during their internalization in A–431 cells. Nesterov A, et al. **Mol Cell Biol** 1990 Sep;10(9):5011–4

Inhibition of epidermal growth factor receptor biosynthesis caused by the src oncogene product, pp60v–src. Wasilenko WJ, et al. **Mol Cell Biol** 1990 Mar;10(3):1254–8

Epidermal growth factor precursor in mouse lactating mammary gland alveolar cells. Brown CF, et al. **Mol Endocrinol** 1989 Jul;3(7):1077–83

H–7, a protein kinase C inhibitor, inhibits phorbol ester–caused ornithine decarboxylase induction but fails to inhibit phorbol ester–caused suppression of epidermal growth factor binding in primary cultured mouse epidermal cells. Nakadate T, et al. **Mol Pharmacol** 1989 Dec; 36(6):917–24

Growth factor biology and oncogene activation in human gliomas and their implications for specific therapeutic concepts. Westphal M, et al. **Neurosurgery** 1989 Nov; 25(5):681–94 (217 ref.)

Binding of epidermal growth factor and insulin–like growth factor I in human myometrium and leiomyomata. Tommola P, et al. **Obstet Gynecol** 1989 Oct;74(4):658–62

Sequential changes in epidermal growth factor receptor/ligand function in cultured rat liver epithelial cells transformed chemically in vitro. Grisham JW, et al. **Pathobiology** 1990;58(1):3–14 (24 ref.)

Conformational characterization of a single–site mutant of murine epidermal growth factor (EGF) by 1H NMR provides evidence that leucine–47 is involved in the interactions with the EGF receptor. Moy FJ, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):9836–40

Human epidermal growth factor receptor residue covalently cross–linked to epidermal growth factor. Wu DG, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):3151–5

Characterization and possible role of growth factor and lymphokine receptors in the regulation of cholinergic function in the mammalian brain. Araujo DM, et al. **Prog Clin Biol Res** 1989;317:423–36

Renal uptake and excretion of epidermal growth factor from plasma in the rat. Jørgensen PE, et al. **Regul Pept** 1990 May 21;28(3):273–81

Intracellular processing of epidermal growth factor by early wound healing cells. Seyfer AE, et al. **Surgery** 1990 Jan; 107(1):69–73

[Isolation and characterization of human KB cell mutants resistant to epidermal growth factor–Pseudomonas exotoxin conjugates] Amano F. **Seikagaku** 1989 Dec; 61(12):1472–7 **(Jpn)**

[Effect of peptide–protein binding on the elimination of somatostatin and epidermal growth factor from the vascular bed by lung tissue] Glinskiĭ GV, et al. **Fiziol Zh** 1989 Jul–Aug;35(4):96–100 (Eng. Abstr.) **(Rus)**

[The phosphorylation and tyrosine kinase activity of an internalized complex of epidermal growth factor and its receptor] Reshetnikova GF, et al. **Tsitologiia** 1990; 32(2):140–7 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

The fate of tritiated rm–epidermal growth factor in the sheep: validation of the labelling procedure and rate of tissue clearance. O'Keefe JH, et al. **Aust J Biol Sci** 1988; 41(4):539–52

Distribution and release of epidermal growth factor in man. Konturek JW, et al. **Gut** 1989 Sep;30(9):1194–200

The fate and uptake of murine epidermal growth factor in the sheep. Tyson LM, et al. **J Endocrinol** 1989 Oct; 123(1):121–30

[Kinetic analysis of hepatic transport of bioactive polypeptides based on receptor–mediated endocytosis: EGF as a model polypeptide] Sugiyama Y. **Seikagaku** 1990 Mar;62(3):184–92 **(Jpn)**

PHARMACOLOGY

Effects of recombinant human epidermal growth factor on the intestinal growth of fetal rhesus monkeys. Read LC, et al. **Acta Paediatr Scand Suppl** 1989;351:97–103

Effect of epidermal growth factor on rat stomach carcinogenesis induced by N–methyl–N'–nitro–N–nitrosoguanidine. Yasui W, et al. **Acta Pathol Jpn** 1990 Mar;40(3):165–71

Early mitogenic stimulation of metabolic flux through phosphoribosyl pyrophosphate into nucleotides in Swiss 3T3 cells and requirement of external magnesium for the response. Tatibana M, et al. **Adv Enzyme Regul** 1989; 28:147–66

Effect of epidermal growth factor on non–steroidal anti–inflammatory drug–induced intestinal damage. DiJoseph JF, et al. **Agents Actions** 1989 Jun;27(3–4):294–6

Activation of cancer cell proteases and cytotoxicity by EGF and PDGF growth factors. Di Stefano JF, et al. **Am J Med Sci** 1990 Jul;300(1):9–15

Assessment of epidermal growth factor in the healing process of clean full–thickness skin wounds. Jijon AJ, et al. **Am J Obstet Gynecol** 1989 Dec;161(6 Pt 1):1658–62

Effects of epidermal growth factor on collagen synthesis by an epithelioid cell line derived from normal rat kidney. Creely JJ, et al. **Am J Pathol** 1990 Jun;136(6):1247–57

Epidermal growth factor accelerates renal repair in mercuric chloride nephrotoxicity. Coimbra TM, et al. **Am J Physiol** 1990 Sep;259(3 Pt 2):F438–43

Effects of epidermal growth factor on signal transduction in rabbit parietal cells. Lewis JJ, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):G476–83

Aging: altered responsiveness of gastric mucosa to epidermal growth factor. Majumdar AP, et al. **Am J Physiol** 1989 Oct;257(4 Pt 1):G554–60

Effects of epidermal growth factor on bone formation and resorption in vivo. Marie PJ, et al. **Am J Physiol** 1990 Feb; 258(2 Pt 1):E275–81

Stimulation of porcine thyroid cell alkalinization and growth by EGF, phorbol ester, and diacylglycerol. Takasu N, et al. **Am J Physiol** 1990 Mar;258(3 Pt 1):E445–50

Effect of epidermal growth factor on the ontogenic response of rat gastric mucosa to H+. Tepperman BL, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G851–9

Effect of orally administered epidermal growth factor on the jejunal mucosa of weaned pigs. Jaeger LA, et al. **Am J Vet Res** 1990 Mar;51(3):471–4

Epidermal growth factor stimulates colony formation and non–neuronal marker protein expression by human neuroblastoma in methylcellulose culture. Bossart E, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1497–504

Morphological changes induced by epidermal growth factor and estradiol on CG5 human breast cancer cell line: a scanning electron microscopy study. Ferrandina G, et al. **Anticancer Res** 1990 Jul–Aug;10(4):991–4

Effect of topically administered epidermal growth factor on corneal wound strength. Leibowitz HM, et al. **Arch Ophthalmol** 1990 May;108(5):734–7

Effects of transforming growth factor–beta and epidermal growth factor on clonal rat pulp cells. Liang RF, et al. **Arch Oral Biol** 1990;35(1):7–11

Effect of growth factors on human vascular endothelial cell prostacyclin production. Ristimäki A, et al. **Arterioscler Thromb** 1990 Jul–Aug;10(4):653–7

Effects of lys–beta–urogastrone in vivo. Campbell AJ, et al. **Aust J Biol Sci** 1988;41(4):463–74

Effects of intradermally injected and topically applied mouse epidermal growth factor on wool growth, skin and wool follicles of merino sheep. Chapman RE, et al. **Aust J Biol Sci** 1988;41(2):261–8

Pertussis toxin inhibits EGF–, phorbol ester– and insulin–stimulated DNA synthesis in BALB/c3T3 cells: evidence for post–receptor activation of Gi alpha. Crouch MF, et al. **Biochem Biophys Res Commun** 1990 Mar 30; 167(3):1369–76

Epidermal growth factor and transforming growth factor–alpha induce differential processing of the epidermal growth factor receptor. Decker SJ. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):615–21

Microtubule–associated protein 1A is the fibroblast HMW MAP undergoing mitogen–stimulated serine phosphorylation. Erickson AK, et al. **Biochem Biophys Res Commun** 1990 Jan 30;166(2):827–32

Growth inhibition of human fibroblasts by epidermal growth factor in the presence of arachidonic acid. Hori T, et al. **Biochem Biophys Res Commun** 1990 Jun 29;169(3):959–65

Preferential inhibition of elastin synthesis by epidermal growth factor in chick aortic smooth muscle cells. Ichiro T, et al. **Biochem Biophys Res Commun** 1990 Apr 30; 168(2):850–6

Epidermal growth factor stimulates the anchorage–independent growth of human squamous cell carcinomas overexpressing its receptors. Lee K, et al. **Biochem Biophys Res Commun** 1990 May 16;168(3):905–11

Nerve and epidermal growth factors induce the release of the Alzheimer amyloid precursor from PC 12 cell cultures. Refolo LM, et al. **Biochem Biophys Res Commun** 1989 Oct 31;164(2):664–70

Extracellular ATP shows synergistic enhancement of DNA synthesis when combined with agents that are active in wound healing or as neurotransmitters. Wang DJ, et al. **Biochem Biophys Res Commun** 1990 Jan 15;166(1):251–8

Effects of epidermal growth factor (urogastrone) on gluconeogenesis, glucose oxidation, and glycogen synthesis in isolated rat hepatocytes. Moreno F, et al. **Biochem Cell Biol** 1989 Oct;67(10):724–9

Effects of EGF and PMA on the growth and proliferation of IEC–6 cells. Baliga BS, et al. **Biochem Int** 1989 Nov; 19(5):1045–56

Insulin–like effects of epidermal growth factor and insulin–like growth factor–I on [3H]2–deoxyglucose uptake, diacylglycerol generation and protein kinase C activation in BC3H–1 myocytes. Farese RV, et al. **Biochem J** 1989 Aug 1;261(3):927–34

Specific expression of lactase in the jejunum and colon during postnatal development and hormone treatments in the rat. Freund JN, et al. **Biochem J** 1990 May 15;268(1):99–103

The tyrosine kinase activity of the epidermal–growth–factor receptor is necessary for phospholipase A2 activation. Goldberg HJ, et al. **Biochem J** 1990 Apr 15;267(2):461–5

Epidermal growth factor stimulates rat cardiac adenylate cyclase through a GTP–binding regulatory protein. Nair BG, et al. **Biochem J** 1989 Dec 1;264(2):563–71

Sustained increase in 1,2–diacylglycerol precedes DNA synthesis in epidermal–growth–factor–stimulated fibroblasts. Evidence for stimulated phosphatidylcholine hydrolysis. Wright TM, et al. **Biochem J** 1990 Apr 15; 267(2):501–7

Zinc increases EGF–stimulated DNA synthesis in primary mouse hepatocytes. Studies in tumor promoter–treated cell cultures. Kobusch AB, et al. **Biochem Pharmacol** 1990 Feb 1;39(3):555–8

Effect of epidermal growth factor on acid and pepsinogen secretion by rat isolated stomach cells stimulated with forskolin. Atwell MM, et al. **Biochem Soc Trans** 1989 Dec; 17(6):1077

Inhibition of epidermal growth factor–stimulated hepatocyte proliferation by the metallocarcinogen beryllium. Skilleter DN, et al. **Biochem Soc Trans** 1989 Dec;17(6):1040–1

Differential effect of insulin and epidermal growth factor on the mRNA translocation system and transport of specific poly(A+) mRNA and poly(A–) mRNA in isolated nuclei. Schröder HC, et al. **Biochemistry** 1990 Mar 6; 29(9):2368–78

Insulin, epidermal growth factor and fibroblast growth factor elicit distinct patterns of protein tyrosine phosphorylation in BC3H1 cells. Kyriakis JM, et al. **Biochim Biophys Acta** 1990 Aug 13;1054(1):73–82

Effects of epidermal growth factor on protein degradation the translocation of non–histone proteins to the nucleus and DNA synthesis. Polet H, et al. **Biochim Biophys Acta** 1989 Oct 9;1013(3):279–86

Epidermal growth factor administered in pregnancy has little effect on placental, fetal and postnatal growth and development in rats. Ali P, et al. **Biol Neonate** 1990; 57(5):318–24

Specificity of epidermal growth factor action on maturation of the murine oocyte and cumulus oophorus in vitro. Downs SM. **Biol Reprod** 1989 Aug;41(2):371–9

Effects of acidic fibroblast growth factor and epidermal growth factor on fetal rat calvaria cell cultures. Nicolas V, et al. **Biomaterials** 1990 Jul;11:41–3

Effects of acidic fibroblast growth factor and epidermal growth factor on subconfluent fetal rat calvaria cell cultures: DNA synthesis and alkaline phosphatase activity. Nicolas V, et al. **Bone Miner** 1990 Feb;8(2):145–56

Epidermal growth factor increases tensile strength in intestinal wounds in pigs. Kingsnorth AN, et al. **Br J Surg** 1990 Apr;77(4):409–12

Differential effects of phorbol ester on epidermal growth factor receptors in estrogen receptor–positive and –negative breast cancer cell lines. Koga M, et al. **Cancer Res** 1990 Aug 15;50(16):4849–55

Effects of progesterone on the response to epidermal growth factor and other growth factors in cultured human meningioma cells. Koper JW, et al. **Cancer Res** 1990 May 1;50(9):2604–7

Effect of epidermal growth factor on glioma cell growth, migration, and invasion in vitro. Lund–Johansen M, et al. **Cancer Res** 1990 Sep 15;50(18):6039–44

Clinical implications of the expression of epidermal growth factor receptors in human transitional cell carcinoma. Messing EM. **Cancer Res** 1990 Apr 15;50(8):2530–7

Growth factor regulation of the renal cortical tubular cells by epidermal growth factor, insulin–like growth factor–I, acidic and basic fibroblast growth factor, and transforming growth factor–beta in serum free culture. Kanda S, et al. **Cell Biol Int Rep** 1989 Aug;13(8):687–99

Epidermal growth factor promotes chick embryonic angiogenesis. Stewart R, et al. **Cell Biol Int Rep** 1989 Nov; 13(11):957–65

Epidermal growth factor induces the accumulation of calpactin II on the cell surface during membrane ruffling. Campos–Gonzalez R, et al. **Cell Motil Cytoskeleton** 1990; 15(1):34–40

Reduced tyrosine phosphorylation and nonresponsiveness to EGF–mediated cytotoxicity in EGF receptor–hyperproducing UCVA–1 cells. Hirai M, et al.

Cell Signal 1990;2(3):245–52
Effect of the duration of infusion of urogastrone on intestinal regeneration in rabbits. Thompson JS, et al. Cell Tissue Kinet 1989 Jul;22(4):303–9
Selectively enhanced stimulation of DNA synthesis by EGF in vascular smooth muscle cells from young and adult SHR. Suithichaiyakul T, et al. Clin Exp Hypertens [A] 1990; 12(3):307–16
Retinoid–induced potentiation of epidermal growth factor mitogenic effect on corneal endothelial cells. Junquéro D, et al. Cornea 1990 Jan;9(1):41–4
Inhibition of mouse mammary ductal morphogenesis and down–regulation of the EGF receptor by epidermal growth factor. Coleman S, et al. Dev Biol 1990 Feb; 137(2):425–33
EGF induces differentiation of an IL–3–dependent cell line expressing the EGF receptor. Wang HM, et al. EMBO J 1989 Dec 1;8(12):3677–84
Epidermal growth factor influences growth and differentiation of rat granulosa cells. Bendell JJ, et al. Endocrinology 1990 Aug;127(2):533–40
Effect of epidermal growth factor on the expression of digestive hydrolases in the jejunum and colon of newborn rats. Foltzer–Jourdainne C, et al. Endocrinology 1990 Oct; 127(4):1763–9
Epidermal growth factor desensitizes the gonadotropin–responsive adenylyl cyclase in membranes isolated from MA–10 Leydig tumor cells and luteinized rat ovaries. Hafez MM, et al. Endocrinology 1990 Jul; 127(1):394–402
Protein kinase C inhibits epidermal growth factor–dependent tyrosine phosphorylation of phospholipase C gamma and activation of phosphoinositide hydrolysis. Huckle WR, et al. Endocrinology 1990 Oct;127(4):1697–705
Human alpha fetoprotein enhances epidermal growth factor proliferative activity upon porcine granulosa cells in monolayer culture. Leal JA, et al. Endocrinology 1990 Jan; 126(1):669–71
Hormonal regulation of growth hormone receptors in primary cultured rat hepatocytes. Niimi S, et al. Endocrinology 1990 Aug;127(2):688–94
Epidermal growth factor inhibits radioiodine uptake but stimulates deoxyribonucleic acid synthesis in newborn rat thyroids grown in nude mice. Ozawa S, et al. Endocrinology 1990 Aug;127(2):604–12
Characterization of a mitogen–activated, Ca2+–sensitive microtubule–associated protein–2 kinase. Hoshi M, et al. Eur J Biochem 1989 Sep 15;184(2):477–86
Epidermal growth factor and cyclic AMP stimulate Na+/H+ exchange in isolated rat hepatocytes. Moule SK, et al. Eur J Biochem 1990 Feb 14;187(3):677–82
Growth–inhibitory and growth–stimulatory effects of epidermal growth factor on human breast cancer cell line, MDA.MB.436: dependence on culture conditions. Nelson J, et al. Eur J Cancer Clin Oncol 1989 Dec;25(12):1851–5
Vascular smooth muscle relaxation induced by epidermal growth factor is endothelium–dependent. Namiki A, et al. Eur J Pharmacol 1990 May 16;180(2–3):247–54
Epidermal growth factor (EGF)–nonresponsive variants of normal rat kidney cell line: response to EGF and transforming growth factor–beta. Hamanaka R, et al. Exp Cell Res 1990 Jan;186(1):83–9
Effects of epidermal growth factor and transforming growth factor–beta 1 on rat heart endothelial cell anchorage–dependent and –independent growth. Mooradian DL, et al. Exp Cell Res 1990 Jan;186(1):122–9
Epidermal growth factor stimulates DNA synthesis while inhibiting cell multiplication of A–431 carcinoma cells. Polet H. Exp Cell Res 1990 Feb;186(2):390–3
The effect of alteration of extracellular Na+ or Ca2+ and inhibition of Ca2+ entry, Na(+)–H+ exchange, and Na(+)–Ca2+ exchange by diltiazem, amiloride, and dichlorobenzamil on the response of cardiac cell aggregates to epidermal growth factor. Rabkin SW. Exp Cell Res 1990 Jun;188(2):262–6
Death of serum–free mouse embryo cells caused by epidermal growth factor deprivation is prevented by cycloheximide, 12–O–tetradecanoylphorbol–13–acetate, or vanadate. Rawson C, et al. Exp Cell Res 1990 Jan;186(1):177–81
Survival of BSC–1 cells through the maintenance of cell volume brought about by epidermal growth factor depends on attachment to the substratum. Shiba Y, et al. Experientia 1990 May 15;46(5):492–5
Mediation of renal vascular effects of epidermal growth factor by arachidonate metabolites. Harris RC, et al. FASEB J 1990 Apr 1;4(6):1654–60
Transforming growth factor–beta and epidermal growth factor modulate basal and interleukin–6–induced amino acid uptake and acute phase protein synthesis in cultured rat hepatocytes. Bereta J, et al. FEBS Lett 1990 Jun 18; 266(1–2):48–50
Analogs of human epidermal growth factor which partially inhibit the growth factor–dependent protein–tyrosine kinase activity of the epidermal growth factor receptor. Matsunami RK, et al. FEBS Lett 1990 May 7;264(1):105–8
Tyrphostins inhibit the epidermal growth factor receptor–mediated breakdown of phosphoinositides. Posner I, et al. FEBS Lett 1989 Nov 6;257(2):287–91
Growth factor–induced release of a glycosyl–phosphatidylinositol (GPI)–linked protein from the HEp–2 human carcinoma cell line. Roberts JM, et al. FEBS Lett 1990 Jul 16;267(2):213–6
Inhibition of epidermal growth factor–induced DNA synthesis by tyrosine kinase inhibitors. Umezawa K, et al. FEBS Lett 1990 Jan 29;260(2):198–200
Increment of pro alpha 1 (I) and pro alpha 1 (IV) collagen mRNA steady–state levels by EGF stimulated hepatocytes in primary culture. Motomura M, et al. Gastroenterol Jpn 1990 Apr;25(2):272
The trophic effect of epidermal growth factor on morphological changes and polyamine metabolism in the small intestine of rats. Tsujikawa T, et al. Gastroenterol Jpn 1990 Jun;25(3):328–34
Fibroblast growth factor inhibits epidermal growth factor–induced responses in rat astrocytes. Huff KR, et al. GLIA 1990;3(3):193–204
Modulation of transforming growth factor–beta actions in rat osteoblast–like cells: the effects of bFGF and EGF. Chen TL, et al. Growth Factors 1989;1(4):335–45
Receptor downregulation and DNA synthesis are modulated by EGF and TPA in cells expressing an EGFR/neu chimera. Lehtola L, et al. Growth Factors 1989;1(4):323–34
Spontaneously transformed NRK cells lose their mitogenic response to epidermal growth factor. Wegrzyn RJ, et al. Growth Factors 1989;1(3):227–36
Epidermal growth factor and transforming growth factor–alpha suppress HLA class II induction in human thyroid epithelial cells. Todd I, et al. Immunology 1990 Jan;69(1):91–6
A new method for study of normal lens development in vitro using pulsatile delivery of PDGF or EGF in HL–1 serum–free medium. Brewitt B, et al. In Vitro Cell Dev Biol 1990 Mar;26(3 Pt 1):305–14
Stimulation by transforming growth factor–beta of epidermal growth factor–dependent growth of aged human fibro–blasts: recovery of high affinity EGE receptors and growth stimulation by EGF. Kawamoto T, et al. In Vitro Cell Dev Biol 1989 Oct;25(10):965–70
Epidermal growth factor responsiveness of a new human neuroblastoma cell line. Suardet L, et al. Int J Cancer 1989 Oct 15;44(4):661–8
Epidermal growth factor treatment during early postnatal development: glutamine synthetase and glutamate decarboxylase activities in mouse brain. Condorelli D, et al. Int J Dev Neurosci 1990;8(1):1–8
Proliferation–related responses in rat astrocytes to epidermal growth factor. Huff KR, et al. Int J Dev Neurosci 1990; 8(3):255–66
ADP–ribosylation of proteins in brain regions of rats during postnatal development. Spins–Purrello V, et al. Int J Dev Neurosci 1990;8(2):167–74
Dose–dependent effects of epidermal growth factor on corneal wound healing. Mathers WD, et al. Invest Ophthalmol Vis Sci 1989 Nov;30(11):2403–6
Identification of multiple epidermal growth factor–stimulated protein serine/threonine kinases from Swiss 3T3 cells. Ahn NG, et al. J Biol Chem 1990 Jul 15;265(20):11487–94
Evidence for an epidermal growth factor–stimulated protein kinase cascade in Swiss 3T3 cells. Activation of serine peptide kinase activity by myelin basic protein kinases in vitro. Ahn NG, et al. J Biol Chem 1990 Jul 15; 265(20):11495–501
Epidermal growth factor potentiates cyclic AMP accumulation in A–431 cells. Ball RL, et al. J Biol Chem 1990 Aug 5;265(22):12836–45
Epidermal growth factor enhances glomerular mesangial cell soluble phospholipase A2 activity. Bonventre JV, et al. J Biol Chem 1990 Mar 25;265(9):4934–8
Antiinflammatory effects of polypeptide growth factors. Platelet–derived growth factor, epidermal growth factor, and fibroblast growth factor inhibit the cytokine–induced expression of the alternative complement pathway activator factor B in human fibroblasts. Circolo A, et al. J Biol Chem 1990 Mar 25;265(9):5066–71
Induction of c–fos and c–myc proto–oncogene expression by epidermal growth factor and transforming growth factor alpha is calcium–independent. Cutry AF, et al. J Biol Chem 1989 Nov 25;264(33):19700–5
Effects of substitution of threonine 654 of the epidermal growth factor receptor on epidermal growth factor–mediated activation of phospholipase C. Decker SJ, et al. J Biol Chem 1990 Apr 25;265(12):7009–15
Epidermal growth factor–induced truncation of the epidermal growth factor receptor. Decker SJ. J Biol Chem 1989 Oct 25;264(30):17641–4
Hormonally inducible phosphorylation of a nuclear pool of ribosomal protein S6. Franco R, et al. J Biol Chem 1990 Mar 15;265(8):4321–5
Mitogenic signaling by epidermal growth factor (EGF), but not platelet–derived growth factor, requires arachidonic acid metabolism in BALB/c 3T3 cells. Modulation of EGF–dependent c–myc expression by prostaglandins. Handler JA, et al. J Biol Chem 1990 Mar 5;265(7):3669–73
The identification and characterization of an epidermal growth factor–stimulated phosphorylation of a specific low molecular weight GTP–binding protein in a reconstituted phospholipid vesicle system. Hart MJ, et al. J Biol Chem 1990 Apr 15;265(11):5990–6001
Toxicity and effects of epidermal growth factor on glucose metabolism of MDA–468 human breast cancer cells. Kaplan O, et al. J Biol Chem 1990 Aug 15;265(23):13641–9
Protamine enhances epidermal growth factor (EGF)–stimulated mitogenesis by increasing cell surface EGF receptor number. Implications for existence of cryptic EGF receptors. Lokeshwar VB, et al. J Biol Chem 1989 Nov 15;264(32):19318–26
Transient epidermal growth factor (EGF)–dependent suppression of EGF receptor autophosphorylation during internalization. McCune BK, et al. J Biol Chem 1990 Jun 15;265(17):9715–21
Molecular species analysis of mitogen–stimulated 1,2–diglycerides in fibroblasts. Comparison of alpha–thrombin, epidermal growth factor, and platelet–derived growth factor [published erratum appears in J Biol Chem 1990 Sep 5;265(25):15347] Pessin MS, et al. J Biol Chem 1990 May 15;265(14):7959–66
Epidermal growth factor increases the labeling of phosphatidylinositol 3,4–bisphosphate in MA–10 Leydig tumor cells. Pignataro OP, et al. J Biol Chem 1990 Jan 25;265(3):1718–23
Cooperative stimulation of specific gene transcription by epidermal growth factor and transforming growth factor type beta 1. Ranganathan G, et al. J Biol Chem 1990 Feb 25;265(6):3001–4
Modulation of RNA expression by intracellular calcium. Existence of a threshold calcium concentration for induction of VL30 RNA by epidermal growth factor, endothelin, and protein kinase C. Rodland KD, et al. J Biol Chem 1990 Jul 5;265(19):11000–7
Adipose conversion of 3T3–L1 cells in a serum–free culture system depends on epidermal growth factor, insulin–like growth factor I, corticosterone, and cyclic AMP. Schmidt W, et al. J Biol Chem 1990 Sep 15;265(26):15489–95
Identification of two epidermal growth factor–sensitive tyrosine phosphorylation sites of phospholipase C–gamma in intact HSC–1 cells. Wahl MI, et al. J Biol Chem 1990 Mar 5;265(7):3944–8
Modulation of extracellular–matrix synthesized by cultured stromal cells from normal human breast tissue by epidermal growth factor. Baley P, et al. J Cell Biochem 1990 Jun; 43(2):111–25
Early events in the antiproliferative action of tumor necrosis factor are similar to the early events in epidermal growth factor growth stimulation. Donato NJ, et al. J Cell Biochem 1989 Nov;41(3):139–57
Epidermal growth factor stimulates phosphatidylinositol turnover in human foreskin fibroblasts without activation of protein kinase C. Thompson DM, et al. J Cell Biochem 1989 Dec;41(4):201–5
Epidermal growth factor–induced selective phosphorylation of cultured rat hepatocyte 55–kD cytokeratin before filament reorganization and DNA synthesis. Baribault H, et al. J Cell Biol 1989 Oct;109(4 Pt 1):1665–76
Signal transduction by epidermal growth factor occurs through the subclass of high affinity receptors. Defize LH, et al. J Cell Biol 1989 Nov;109(5):2495–507
Ligand–mediated internalization, recycling, and downregulation of the epidermal growth factor receptor in vivo [published erratum appears in J Cell Biol 1990 Jan;110(1):following 227] Lai WH, et al. J Cell Biol 1989 Dec;109(6 Pt 1):2741–9
Ligand–mediated autophosphorylation activity of the epidermal growth factor receptor during internalization. Lai WH, et al. J Cell Biol 1989 Dec;109(6 Pt 1):2751–60
Distinct endocytotic pathways in epidermal growth factor–stimulated human carcinoma A431 cells [published erratum appears in J Cell Biol 1990 Mar;110(3):859] West MA, et al. J Cell Biol 1989 Dec;109(6 Pt 1):2731–9
Epidermal growth factor and bombesin differ strikingly in the induction of early responses in Swiss 3T3 cells. Bierman AJ, et al. J Cell Physiol 1990 Mar;142(3):441–8
Multiple sequential periods of DNA synthesis and quiescence in primary hepatocyte cultures maintained on the DMSO–EGF on/off protocol. Chan K, et al. J Cell Physiol 1989 Dec;141(3):584–90
Altered cell cycle responses to insulin–like growth factor I, but not platelet–derived growth factor and epidermal growth factor, in senescing human fibroblasts. Chen YY, et al. J Cell Physiol 1990 Jul;144(1):18–25
Inhibition of epidermal growth factor/transforming growth factor–alpha–stimulated cell growth by a synthetic peptide. Eppstein DA, et al. J Cell Physiol 1989 Nov;141(2):420–30
Comparison of the ability of basic and acidic fibroblast growth factor to stimulate the proliferation of an established keratinocyte cell line: modulation of their biological effects by heparin, transforming growth factor beta (TGF beta), and epidermal growth factor (EGF). Gospodarowicz D, et al. J Cell Physiol 1990 Feb; 142(2):325–33
Possible role of prostaglandins as negative regulators in growth stimulation by tumor necrosis factor and epidermal growth factor in human fibroblasts. Hori T, et al. J Cell Physiol 1989 Nov;141(2):275–80
Morphologic changes in human carcinoma cells (A–431) stimulated by epidermal growth factor: effect of cholesterol and low–density lipoproteins on the ruffling response. Jackowski MM, et al. J Cell Physiol 1990 Mar; 142(3):458–68
Augmented desensitization to epidermal growth factor (EGF) immediate actions: a novel mechanism for altered EGF growth response in mutant A431 cells. Karasik A, et al. J Cell Physiol 1990 Feb;142(2):231–5
Effect of epidermal growth factor on the expression of protooncogenes c–myc and c–Ha–ras in short–term primary hepatocyte culture. Kost DP, et al. J Cell Physiol 1990 Jul;144(1):122–7

Human keratinocyte growth factor activity on proliferation and differentiation of human keratinocytes: differentiation response distinguishes KGF from EGF family. Marchese C, et al. **J Cell Physiol** 1990 Aug;144(2):326–32

GH4 pituitary cell variants selected as nonresponsive to thyrotropin-releasing hormone-enhanced substratum adhesion are nonresponsive to epidermal growth factor: evidence for a common signaling defect. Ramsdell JS, et al. **J Cell Physiol** 1989 Dec;141(3):565–72

ras and neu oncogenes reverse serum inhibition and epidermal growth factor dependence of serum-free mouse embryo cells. Shirahata S, et al. **J Cell Physiol** 1990 Jul;144(1):69–76

Insulin-like growth factor-1 (IGF-1), insulin, and epidermal growth factor (EGF) are survival factors for density-inhibited, quiescent Balb/c-3T3 murine fibroblasts. Tamm I, et al. **J Cell Physiol** 1990 Jun;143(3):494–500

Effect of epidermal growth factor on rat pleural mesothelial cell growth. Van der Meeren A, et al. **J Cell Physiol** 1990 Jul;144(1):137–43

Differential effects of transforming growth factor-beta and epidermal growth factor on the cell cycle of cultured rabbit articular chondrocytes. Vivien D, et al. **J Cell Physiol** 1990 Jun;143(3):534–45

Mitogenic response of near-diploid mouse cell line m5S/1M induced by epidermal growth factor. Watanabe S, et al. **J Cell Physiol** 1990 Jan;142(1):99–107

The role of thrombocytes in liver fibrogenesis: effects of platelet lysate and thrombocyte-derived growth factors on the mitogenic activity and glycosaminoglycan synthesis of cultured rat liver fat storing cells. Bachem MG, et al. **J Clin Chem Clin Biochem** 1989 Sep;27(9):555–65

The dual effect of epidermal growth factor upon human chorionic gonadotropin secretion by the first trimester placenta in vitro. Barnea ER, et al. **J Clin Endocrinol Metab** 1990 Oct;71(4):923–8

Epidermal growth factor (EGF) receptors in human chorionic gonadotropin-producing tumor: transplantation in nude mice and the effect of EGF on tumor growth. Miyachi Y, et al. **J Clin Endocrinol Metab** 1990 Aug; 71(2):329–34

Epidermal growth factor-stimulated phosphoinositide hydrolysis in cultured rat inner medullary collecting tubule cells. Regulation by G protein, calcium, and protein kinase C. Teitelbaum I, et al. **J Clin Invest** 1990 Apr;85(4):1044–50

Epidermal growth factor alters metabolism of inositol lipids and activity of protein kinase C in mouse embryo palate mesenchyme cells. Chepenik KP, et al. **J Craniofac Genet Dev Biol** 1989;9(3):285–301

Epidermal growth factor advances some aspects of development but retards others in both rats and hamsters. Smart JL, et al. **J Dev Physiol** 1989 Mar;11(3):153–8

Epidermal growth factor increases inhibin synthesis by isolated segments of rat seminiferous tubules. Gonzales GF, et al. **J Endocrinol** 1989 Nov;123(2):213–9

Characterization of epidermal growth factor-related proteins from human urinary chorionic gonadotrophin. Hofmann J, et al. **J Endocrinol** 1989 Nov;123(2):333–40

Effects of epidermal growth factor on gastrointestinal electromyographic activity of conscious sheep. McLeay LM, et al. **J Endocrinol** 1990 Jan;124(1):109–15

Inhibition of epidermal growth factor-mediated DNA synthesis by a specific tyrosine kinase inhibitor in vascular smooth muscle cells of the spontaneously hypertensive rat. Clegg KB, et al. **J Hypertens Suppl** 1989 Dec;7(6):S144–5

Growth factor-initiated proliferation of mouse embryonic fibroblasts induces cytotoxicity by natural killer cells and by a non-cytolysin cytotoxin in natural killer granules. Khalil N, et al. **J Immunol** 1990 Aug 15;145(4):1286–92

Epidermal and dermal effects of epidermal growth factor during wound repair. Nanney LB. **J Invest Dermatol** 1990 May;94(5):624–9

Trans retinoic acid enhances the growth response of epidermal keratinocytes to epidermal growth factor and transforming growth factor beta. Tong PS, et al. **J Invest Dermatol** 1990 Jan;94(1):126–31

Epidermal growth factor enhances the expression of an endogenous lectin in aggregating fetal brain cell cultures. Tenot M, et al. **J Neurochem** 1989 Nov;53(5):1435–41

Modification of anoxic neuronal injury by human recombinant epidermal growth factor and its possible mechanism. Kinoshita A, et al. **J Neurosci Res** 1990 Mar; 25(3):324–30

EGF-induced neuritogenesis and correlated synthesis of plasma membrane gangliosides in cultured embryonic chick CNS neurons. Rosenberg A, et al. **J Neurosci Res** 1989 Dec;24(4):531–6

Effect of phenytoin on intracellular 45Ca2+ accumulation in gingival fibroblasts in vitro. Brunius G, et al. **J Oral Pathol Med** 1989 Sep;18(8):485–9

Differential effects of epidermal growth factor and hydrocortisone in human fetal colon. Ménard D, et al. **J Pediatr Gastroenterol Nutr** 1990 Jan;10(1):13–20

EGF increases short-term type I collagen accumulation during wound healing in diabetic rats. Hennessey PJ, et al. **J Pediatr Surg** 1990 Aug;25(8):893–7

Response of A431 experimental human solid xenograft to mitomycin C in combination with human epidermal growth factor in mice. Amagase H, et al. **J Pharmacobiodyn** 1990 Apr;13(4):263–8

Distinct coronary artery receptor systems for epidermal growth factor-urogastrone. Gan BS, et al. **J Pharmacol Exp Ther** 1990 Mar;252(3):1277–82

Effect of mouse epidermal growth factor on plasma concentrations of LH, FSH and testosterone in rams. Brown BW, et al. **J Reprod Fertil** 1989 Nov;87(2):649–55

Effects of hormones and drugs on cartilage repair. Franchimont P, et al. **J Rheumatol Suppl** 1989 Aug;18:5–9

Epidermal growth factor stimulation and metastatic rate in human pancreatic carcinoma cell lines. Bleday R, et al. **J Surg Res** 1990 Sep;49(3):276–9

Urogastrone reduces gut atrophy during parenteral alimentation. Bragg LE, et al. **JPEN J Parenter Enteral Nutr** 1990 May-Jun;14(3):283–6

Epidermal growth factor prolongs survival time of tumor-bearing mice. Amagase H, et al. **Jpn J Cancer Res** 1990 May;81(5):495–500

Effects of growth factors and hormones on growth and morphological differentiation of human breast epithelial cells within collagen gel in serum-free medium. Takahashi K, et al. **Jpn J Cancer Res** 1990 Jan;81(1):52–7

Induction of growth factor-receptor and metalloproteinase genes by epidermal growth factor and/or transforming growth factor-alpha in human gastric carcinoma cell line MKN-28. Yoshida K, et al. **Jpn J Cancer Res** 1990 Aug; 81(8):793–8

Epidermal growth factor induces the expression of its receptor gene in human gastric carcinoma cell line TMK-1. Yoshida K, et al. **Jpn J Cancer Res** 1989 Aug;80(8):743–6

Effects of orally administered human epidermal growth factor on natural and delayed healing of acetic acid-induced gastric ulcers in rats. Kuwahara Y, et al. **Jpn J Pharmacol** 1990 Jan;52(1):164–6

Gastrin and epidermal growth factor induction of ornithine decarboxylase in rat colonic explants. Arlow FL, et al. **Life Sci** 1990;46(11):777–84

Fibroblast growth factor pretreatment reduces epidermal growth factor-induced proliferation in rat astrocytes. Huff KR, et al. **Life Sci** 1989;45(17):1515–20

Regulation of thyroid peroxidase activity by thyrotropin, epidermal growth factor and phorbol ester in porcine thyroid follicles cultured in suspension. Kasai K, et al. **Life Sci** 1989;45(16):1451–9

Epidermal growth factor modulates release of arachidonic acid from embryonic cells. Chepenik KP. **Lipids** 1989 Sep; 24(9):829–32

Inhibition by protein kinase-C inhibitor and cycloheximide of phorbol ester- and epidermal growth factor-induced arachidonic acid metabolism in cultured porcine thyroid cells. Kasai K, et al. **Metabolism** 1990 Jul;39(7):709–13

Evidence for epidermal growth factor (EGF)-induced intermolecular autophosphorylation of the EGF receptors in living cells. Honegger AM, et al. **Mol Cell Biol** 1990 Aug;10(8):4035–44

Epidermal growth factor receptor, but not c-erbB-2, activation prevents lactogenic hormone induction of the beta-casein gene in mouse mammary epithelial cells. Hynes NE, et al. **Mol Cell Biol** 1990 Aug;10(8):4027–34

Epidermal growth factor stimulation of stromelysin mRNA in rat fibroblasts requires induction of proto-oncogenes c-fos and c-jun and activation of protein kinase C. McDonnell SE, et al. **Mol Cell Biol** 1990 Aug;10(8):4284–93

Epidermal growth factor and phorbol ester regulate prolactin gene expression via distinct pathways. Jackson AE, et al. **Mol Cell Endocrinol** 1990 Feb 12;69(1):R7–11

Insulin and epidermal growth factor stimulate phosphorylation of p185HER-2 in the breast carcinoma cell line, BT474. Lin YZ, et al. **Mol Cell Endocrinol** 1990 Mar 5;69(2–3):111–9

Differential regulation of cathepsin D by sex steroids in mammary cancer and uterine cells. Touitou I, et al. **Mol Cell Endocrinol** 1989 Oct;66(2):231–8

Anti-epidermal growth factor receptor antibodies inhibit the autocrine-stimulated growth of MDA-468 human breast cancer cells. Ennis BW, et al. **Mol Endocrinol** 1989 Nov; 3(11):1830–8

Enhancement of wound healing by epidermal growth factor [letter; comment] **N Engl J Med** 1990 Jan 11;322(2):134 Comment on: N Engl J Med 1989 Jul 13;321(2):76–9.

Induction of the ganglioside marker A2B5 on cultured cerebellar neural cells by growth factors. Drago J, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):245–50

Transcription factor PEA3 participates in the induction of urokinase plasminogen activator transcription in murine keratinocytes stimulated with epidermal growth factor or phorbol-ester. Rørth P, et al. **Nucleic Acids Res** 1990 Sep 11;18(17):5009–17

Similar early gene responses to ligand-activated EGFR and neu tyrosine kinases in NIH3T3 cells. Koskinen P, et al. **Oncogene** 1990 Apr;5(4):615–8

2-Aminopurine abolishes EGF- and TPA-stimulated pp33 phosphorylation and c-fos induction without affecting the activation of protein kinase C. Mahadevan LC, et al. **Oncogene** 1990 Mar;5(3):327–35

Progressive relaxation of Go-arrest controls and altered responsiveness to insulin, EGF and thrombin in CCL39 lung fibroblasts over-expressing myc and ras oncogenes. Pichon F, et al. **Oncogene** 1988 Oct;3(4):373–81

Characterization of epidermal growth factor receptors on plasma membranes isolated from rat gastric mucosa. Hori R, et al. **Pharm Res** 1990 Jun;7(6):665–9

Stimulation of casein kinase II by epidermal growth factor: relationship between the physiological activity of the kinase and the phosphorylation state of its beta subunit. Ackerman P, et al. **Proc Natl Acad Sci U S A** 1990 Jan;87(2):821–5

Activated type I phosphatidylinositol kinase is associated with the epidermal growth factor (EGF) receptor following EGF stimulation. Bjorge JD, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):3816–20

Continuous monitoring of receptor-mediated changes in the metabolic rates of living cells. Owicki JC, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):4007–11

Identical Mr 70,000 S6 kinase is activated biphasically by epidermal growth factor: a phosphopeptide that characterizes the late phase. Sula M, et al. **Proc Natl Acad Sci U S A** 1990 Sep;87(18):7040–4

Epidermal growth factor or transforming growth factor alpha is required for kidney tubulogenesis in matrigel cultures in serum-free medium. Taub M, et al. **Proc Natl Acad Sci U S A** 1990 May;87(10):4002–6

Effects of epidermal growth factor and androgen influences on accessory sex glands in prepubertal Swiss-Webster mice. Lehman BL, et al. **Prostate** 1990;16(4):291–8

Influence of somatostatin and epidermal growth factor (EGF) on the proliferation of thyroid follicular cells in organ culture. Zerek-Melen G, et al. **Regul Pept** 1990 May 21; 28(3):293–300

Regulation of c-fos expression in primary culture of guinea pig glandular epithelial cells stimulated by growth factors and estradiol. Jouvenot M, et al. **Reprod Nutr Dev** 1990; 30(3):455–8

Effects of hEGF (MG111) on gastric mucosal potential difference in rats. Azuma R, et al. **Scand J Gastroenterol Suppl** 1989;162:198–201

Epidermal growth factor inhibits cysteamine-induced duodenal ulcers in rats. Kunizaki C, et al. **Scand J Gastroenterol Suppl** 1989;162:218–21

Effects of human epidermal growth factor on natural and delayed healing of acetic acid-induced gastric ulcers in rats. Kuwahara Y, et al. **Scand J Gastroenterol Suppl** 1989; 162:162–5

Stimulation of phospholipase C-gamma 1 membrane association by epidermal growth factor. Todderud G, et al. **Science** 1990 Jul 20;249(4966):296–8

Induced interphase cell retraction: its reversal and EGF potentiation. Sit KH, et al. **Tissue Cell** 1989;21(3):321–33

Effect of human epidermal growth factor on lung surfactant production in fetal rabbit. Higuchi M, et al. **Tohoku J Exp Med** 1989 Sep;159(1):15–22

[EGFR expression and EGF stimulation of proliferation in human liver carcinoma cells] Xu YH, et al. **Shih Yen Sheng Wu Hsueh Pao** 1989 Dec;22(4):445–53 (Eng. Abstr.) **(Chi)**

[The (patho)physiological significance of epidermal growth factor in relation to antisecretory, cytoprotective and mitogenic effects in the digestive tract] van den Hoek MC, et al. **Ned Tijdschr Geneeskd** 1989 Sep 23;133(38):1873–6 (37 ref.) **(Dut)**

[Effects of conditioned media of rat pleural mesothelial cells, transformed in vivo or in vitro by asbestos, on the proliferation of normal mesothelial cells. Comparison with epidermal growth factor, EGF] Van der Meeren A, et al. **C R Acad Sci [III]** 1989;309(15):617–22 (Eng. Abstr.) **(Fre)**

[Epidermal growth factor induces the progesterone receptor in fetal uterine cells in culture: antagonistic effect of antiestrogens] Sumida C, et al. **Pathol Biol (Paris)** 1989 Sep;37(7):827–30 (Eng. Abstr.) **(Fre)**

[Activation of the calcium channels of A-431 cells by epidermal growth factor] Mozhaeva GN, et al. **Tsitologiia** 1989 Sep;31(9):1064–73 (Eng. Abstr.) **(Rus)**

[The effect of the beta-type transforming growth factor and its combination with epidermal growth factor and insulin on substrate-dependent proliferation of normal and tumor cells] Sushel'nitskiĭ SI, et al. **Tsitologiia** 1989 Jul; 31(7):767–74 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Physiological functions of human milk hormones. Koldovský O, et al. **Acta Paediatr Scand Suppl** 1989;351:94–6 (10 ref.)

Cultivation of keratinocytes derived from epidermal explants of sheep skin and the roles of growth factors in the regulation of proliferation. Pisansarakit P, et al. **Arch Dermatol Res** 1990;281(8):530–5

Regulation of protein kinase FA (a transmembrane signal of insulin and epidermal growth factor) in the brain. Yang SD, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):267–72

Epidermal growth factor: lysosomal degradation is not involved in the initial mitogenic signal to the nucleus. Inzani VA. **Biochem Soc Trans** 1990 Jun;18(3):446

Epidermal growth factor: the receptor and its function. Todderud G, et al. **Biofactors** 1989 Mar;2(1):11–5 (52 ref.)

Epidermal growth factor and transforming growth factor alpha. Burgess AW. **Br Med Bull** 1989 Apr;45(2):401–24 (87 ref.)

The effect of sialoadenectomy on gastric mucosal integrity in the rat: roles of epidermal growth factor and prostaglandin E2. Tepperman BL, et al. **Can J Physiol Pharmacol** 1989 Dec;67(12):1512–9

Epidermal growth factor regulates gene expression of both epithelial and mesenchymal cells in mouse molar tooth organs in culture. Hata R, et al. **Cell Biol Int Rep** 1990 Jun;14(6):509–19

Epidermal growth factor and transforming growth factor-alpha in the development of epithelial-mesenchymal organs of the mouse. Partanen AM. **Curr Top Dev Biol**

1990;24:31–55 (109 ref.)
The growth factor–platelet–transformation connection. Bowen–Pope DF. **Dev Biol (N Y 1985)** 1986;3:111–28 (132 ref.)
Effect of the X–linked gene Tabby (Ta) on eyelid opening and incisor eruption in neonatal mice is opposite to that of epidermal growth factor. Kapalanga J, et al. **Development** 1990 Feb;108(2):349–55
Healing of chronic gastroduodenal ulcerations by antacids. Role of prostaglandins and epidermal growth factor. Konturek SJ, et al. **Dig Dis Sci** 1990 Sep;35(9):1121–9
Chemotactic migration of normal dermal fibroblasts towards epidermal growth factor and its modulation by platelet–derived growth factor and transforming growth factor–beta. Adelmann–Grill BC, et al. **Eur J Cell Biol** 1990 Apr;51(2):322–6
Uptake and transport of epidermal growth factor by the small intestinal epithelium of the fetal rat. Weaver LT, et al. **Gastroenterology** 1990 Apr;98(4):828–37
Chondrogenesis of mandibular mesenchyme from the embryonic chick is inhibited by mandibular epithelium and by epidermal growth factor. Coffin–Collins PA, et al. **Int J Dev Biol** 1989 Jun;33(2):297–311
Distribution, release, and secretory activity of epidermal growth factor in the pancreas. Jaworek J, et al. **Int J Pancreatol** 1990 Apr;6(3):189–205
Subfractionation of the endocytic pathway: isolation of compartments involved in the processing of internalised epidermal growth factor–receptor complexes. Futter CE, et al. **J Cell Sci** 1989 Dec;94 (Pt 4):685–94
Incidence of precancerous foci of mammary glands and growth rate of transplantable mammary cancers in sialoadenectomized mice. Inui T, et al. **J Natl Cancer Inst** 1989 Nov 1;81(21):1660–3
Response of malignant glioma cell lines to epidermal growth factor and platelet–derived growth factor in a serum–free medium. Pollack IF, et al. **J Neurosurg** 1990 Jul; 73(1):106–12
Considerations on the role of surface tension and epidermal growth factor in the mechanism of integumental pattern formation. Hoath SB. **J Theor Biol** 1990 Mar 8;143(1):1–14
Stimulation of stromal cell growth by normal rat urothelial cell–derived epidermal growth factor. Noguchi S, et al. **Lab Invest** 1990 May;62(5):538–44
c–ras–Ha gene expression is regulated by insulin or insulinlike growth factor and by epidermal growth factor in murine fibroblasts. Lu KH, et al. **Mol Cell Biol** 1989 Aug; 9(8):3411–7
The role of complex formation and epidermal growth factor–like domains in the regulation of blood coagulation by the thrombomodulin–protein C system. Kurosawa S. **Nippon Ketsueki Gakkai Zasshi** 1989 Dec;52(8):1343–9 (34 ref.)
Epidermal growth factor and its receptors in human pancreatic carcinoma. Chen YF, et al. **Pancreas** 1990 May; 5(3):278–83
Roles of platelet–activating factor and thromboxane in group B Streptococcus–induced pulmonary hypertension in piglets. Pinheiro JM, et al. **Pediatr Res** 1989 Nov; 26(5):420–4
Epidermal growth factor and the onset of epithelial epidermal wound healing. Chernoff EA, et al. **Tissue Cell** 1990; 22(2):123–35
The epidermal growth factor. A review of structural and functional relationships in the normal organism and in cancer cells. Laurence DJ, et al. **Tumour Biol** 1990; 11(5):229–61 (244 ref.)
[Growth factors in human tooth development] Bellone C, et al. **Boll Soc Ital Biol Sper** 1990 Mar;66(3):231–8 (Eng. Abstr.) **(Ita)**
[Three–dimensional structure and function of epidermal growth factor] Kohda D, et al. **Seikagaku** 1989 Aug; 61(8):698–704 **(Jpn)**
[Growth factor–induced changes in the actin architecture] Miyata Y, et al. **Tanpakushitsu Kakusan Koso** 1989 Sep; 34(12 Suppl):1575–83 **(Jpn)**
[Cell growth control by growth factors] Shimizu N, et al. **Tanpakushitsu Kakusan Koso** 1989 Jul;34(9):1040–8 **(Jpn)**
[Influence of pregnancy on the healing of chronic gastric and duodenal ulcers. Role of endogenous epidermal growth factor] Warzecha Z, et al. **Ginekol Pol** 1989 Mar; 60(3):166–70 (Eng. Abstr.) **(Pol)**
[Properties of protein–tyrosine kinases (minireview)] Kamińska B. **Postepy Biochem** 1989;35(3):219–30 (42 ref.) **(Pol)**
[Epidermal growth factor (EGF)] Sukmanskiĭ OI. **Usp Fiziol Nauk** 1990 Jan–Mar;21(1):3–22 (166 ref.) **(Rus)**
[Receptors for epidermal growth factor in breast cancer] Bolufer–Gilabert P, et al. **Rev Esp Fisiol** 1990 Mar; 46(1):103–8 (Eng. Abstr.) **(Spa)**

SECRETION

Secretion of epidermal growth factor and related polypeptides by the DU 145 human prostate cancer cell line. Connolly JM, et al. **Prostate** 1989;15(2):177–86
Production of epidermal growth factor and transforming growth factor–alpha by the androgen–responsive LNCaP human prostate cancer cell line. Connolly JM, et al. **Prostate** 1990;16(3):209–18
Epidermal growth factor and haptocorrin in nasal secretion. Tønnesen P, et al. **Scand J Clin Lab Invest** 1990 Apr; 50(2):187–94

THERAPEUTIC USE

Growth–inhibitory effects of epidermal growth factor on human breast cancer and carcinoma of the esophagus transplanted into nude mice. Murayama Y. **Ann Surg** 1990 Mar;211(3):263–8
Epidermal growth factor and insulin act synergistically during diabetic healing. Hennessey PJ, et al. **Arch Surg** 1990 Jul;125(7):926–9
Epidermal growth factor accelerates functional recovery from ischaemic acute tubular necrosis in the rat: role of the epidermal growth factor receptor. Norman J, et al. **Clin Sci** 1990 May;78(5):445–50
Epidermal growth factor enhances renal tubule cell regeneration and repair and accelerates the recovery of renal function in postischemic acute renal failure. Humes HD, et al. **J Clin Invest** 1989 Dec;84(6):1757–61
Induction of sweat glands by epidermal growth factor in murine X–linked anhidrotic ectodermal dysplasia. Blecher SR, et al. **Nature** 1990 Jun 7;345(6275):542–4
Prospects for epidermal growth factor in the management of corneal disorders. Tripathi RC, et al. **Surv Ophthalmol** 1990 May–Jun;34(6):457–62 (40 ref.)
[Anti–tumor effects of epidermal growth factors in carcinoma of the esophagus transplanted to nude mice: preliminary report] Murayama Y, et al. **Nippon Geka Gakkai Zasshi** 1989 May;90(5):796 **(Jpn)**

TOXICITY

Epidermal growth factor and transforming growth factor alpha induce ascitic fluid in mice. Ohmura E, et al. **Cancer Res** 1990 Aug 15;50(16):4915–7

URINE

Effect of congenital renal disease and neonatal thyroid status on urinary human epidermal growth factor concentrations. Scott SM, et al. **Acta Endocrinol (Copenh)** 1989 Oct; 121(4):505–12
Monoclonal antibodies specific for high molecular weight form of human epidermal growth factor. Koga J, et al. **Biochem Int** 1989 Aug;19(2):445–52
Purification and characterization of a low and a high molecular weight form of epidermal growth factor from rat urine. Nexø E, et al. **Biochim Biophys Acta** 1990 Mar 1;1037(3):388–93
Maturational changes and origin of urinary human epidermal growth factor in the neonatal period. Watanabe K, et al. **Biol Neonate** 1989;56(5):241–5
Urinary excretion of human epidermal growth factor in the various stages of diabetic nephropathy. Dagogo–Jack S, et al. **Clin Endocrinol (Oxf)** 1989 Aug;31(2):167–73
Effect of salivarectomy on the growth of gastrointestinal mucosa and urinary secretion of epidermal growth factor in rats. Yamaguchi T, et al. **Gastroenterol Jpn** 1989 Dec; 24(6):626–31
Human urinary epidermal growth factor: effects of age, sex and pregnancy. Kasai K, et al. **Horm Res** 1989;31(4):157–62
Excretion of epidermal growth factor–like material in acute Henoch–Schönlein purpura nephritis. Goodyer PR, et al. **Pediatr Nephrol** 1990 Mar;4(2):101–4

EPIDERMAL NECROLYSIS, TOXIC

Causes, diagnosis, and management of toxic epidermal necrolysis. Rasmussen JE. **Compr Ther** 1990 Mar;16(3):3–6
[Severe bullous forms of drug eruptions] Sfar Z, et al. **Tunis Med** 1989 Dec;67(12):805–8 **(Fre)**

CLASSIFICATION

Requiem for toxic epidermal necrolysis [letter] Lyell A. **Br J Dermatol** 1990 Jun;122(6):837–8

COMPLICATIONS

[Mucosynechial conjunctivitis and bilateral corneal ulcers in Lyell's syndrome] Talea L. **Rev Chir [Oftalmol]** 1989 Oct–Dec;33(4):299–303 (Eng. Abstr.) **(Rum)**
[Successful autologous dermatoplasty in Lyell's syndrome] Usik SF. **Khirurgiia (Mosk)** 1990 May;(5):148 **(Rus)**

DIAGNOSIS

Toxic epidermal necrolysis—a premature requiem? [editorial] **Lancet** 1990 Jul 28;336(8709):218–9
[Emergencies in dermatology] Chosidow O, et al. **Presse Med** 1990 Mar 17;19(10):453–5 **(Fre)**

DRUG THERAPY

[A case of Lyell's syndrome] Simochkina ZA, et al. **Vrach Delo** 1989 Oct;(10):91–2 **(Rus)**

EPIDEMIOLOGY

The incidence of erythema multiforme, Stevens–Johnson syndrome, and toxic epidermal necrolysis. A population–based study with particular reference to reactions caused by drugs among outpatients. Chan HL, et al. **Arch Dermatol** 1990 Jan;126(1):43–7
Incidence of toxic epidermal necrolysis in Italy [letter] Naldi L, et al. **Arch Dermatol** 1990 Aug;126(8):1103–4
Toxic epidermal necrolysis (Lyell syndrome). Incidence and drug etiology in France, 1981–1985. Roujeau JC, et al. **Arch Dermatol** 1990 Jan;126(1):37–42

ETIOLOGY

Drug–induced toxic epidermal necrolysis in developing countries [letter] Nanda A, et al. **Arch Dermatol** 1990 Jan; 126(1):125
Toxic epidermal necrolysis associated with sulfonamides [letter] Margolis DJ, et al. **Int J Dermatol** 1990 Mar; 29(2):153
Toxic epidermal necrolysis associated with acute cholestatic viral hepatitis A. Werblowsky–Constantini N, et al. **J Clin Gastroenterol** 1989 Dec;11(6):691–3
Fatal toxic epidermal necrolysis after griseofulvin [letter] Mion G, et al. **Lancet** 1989 Dec 2;2(8675):1331
Vancomycin–induced toxic epidermal necrolysis. Hannah BA, et al. **South Med J** 1990 Jun;83(6):720–2
[Lyell syndrome and its attributability to medications: methodological problems] Roujeau JC. **Allerg Immunol (Paris)** 1990 Jun;22(6):217–21 (6 ref.) (Eng. Abstr.) **(Fre)**
[Fatal Lyell's syndrome caused by griseofulvin] Mion G, et al. **Ann Fr Anesth Reanim** 1990;9(3):305–8 (12 ref.) (Eng. Abstr.) **(Fre)**
[Bullous toxic skin disease with fatal outcome in AIDS (letter)] Caumes E, et al. **Presse Med** 1989 Oct 21; 18(34):1708–9 **(Fre)**
[Case–control surveillance of Stevens–Johnson syndrome and Lyell's syndrome. Presentation of the GISED project] **G Ital Dermatol Venereol** 1989 Oct;124(10):435–40 (Eng. Abstr.) **(Ita)**
[Lyell's syndrome] Zabel J, et al. **Wiad Lek** 1989 Aug 15–Sep 15;42(16–18):983–5 **(Pol)**
[Acute epidermal necrolysis (Lyell's syndrome) in a female patient with autoimmune thyroiditis] Chebotarev KS, et al. **Vestn Dermatol Venerol** 1989;(8):56–8 (Eng. Abstr.) **(Rus)**
[Lyell's syndrome] Shevchenko AM, et al. **Vestn Otorinolaringol** 1990 May–Jun;(3):68–9 **(Rus)**
[Lyell's syndrome induced by heroin contaminants (letter)] Llibre LM, et al. **Med Clin (Barc)** 1990 May 26;94(20):799 **(Spa)**
[Necrotic epidermolysis caused by metamizole (letter)] Arellano F, et al. **Rev Clin Esp** 1990 Apr;186(6):305–7 **(Spa)**
[Anesthesia in a patient with toxic epidermal necrolysis] Domínguez Pérez F, et al. **Rev Esp Anestesiol Reanim** 1989 Nov–Dec;36(6):350–2 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Fatal phenytoin–related toxic epidermal necrolysis: case report. Kelly DF, et al. **Neurosurgery** 1989 Dec;25(6):976–8

PSYCHOLOGY

Toxic epidermal necrolysis: a medical student's perspective. Born TE, et al. **S D J Med** 1989 Nov;42(11):15–9

THERAPY

Treatment of toxic epidermal necrolysis and a review of six cases. Ward DJ, et al. **Burns** 1990 Apr;16(2):97–104
Management of nonstaphylococcal toxic epidermal necrolysis: follow–up study of 16 case histories. Tegelberg–Stassen MJ, et al. **Dermatologica** 1990; 180(3):124–9 (28 ref.)
Biobrane wound dressing used in the treatment of toxic epidermal necrolysis: a case report. Sowder LL. **J Burn Care Rehabil** 1990 May–Jun;11(3):237–9
Management of Stevens–Johnson syndrome and toxic epidermal necrolysis in children. Prendiville JS, et al. **J Pediatr** 1989 Dec;115(6):881–7

EPIDERMIS

Intraepidermal formation of Merkel cells in xenografts of human fetal skin. Moll I, et al. **J Invest Dermatol** 1990 Mar;94(3):359–64
Reconstituted epidermis: a novel model for the study of drug metabolism in human epidermis. Pham MA, et al. **J Invest Dermatol** 1990 Jun;94(6):749–52
[Our experience with the use of epidermal cell cultures in reconstructive surgery] Abbes M, et al. **Ann Chir Plast Esthet** 1990;35(1):31–8 (19 ref.) (Eng. Abstr.) **(Fre)**
[Clinical application of grafts of cultured epidermis in burn patients. Apropos of 16 patients] Foyatier JL, et al. **Ann Chir Plast Esthet** 1990;35(1):39–46 (Eng. Abstr.) **(Fre)**
[Occlusion of an implanted peridural catheter by a plug of epidermis] Horrichs–Haermeyer G, et al. **Reg Anaesth** 1990 Mar;13(2):39–41 (Eng. Abstr.) **(Ger)**

ANALYSIS

Regional variations in cytokeratin expression in palmo–plantar epidermis. Egelrud T, et al. **Acta Derm Venereol (Stockh)** 1989;69(5):373–9
Keratinocyte and epidermal leukocyte expression of CD36 (OKM5) in benign and malignant skin diseases. Lisby S, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):18–22
Cytokeratin diversity in epithelia of the human inner ear. Anniko M, et al. **Acta Otolaryngol (Stockh)** 1989 Nov–Dec;

108(5–6):385–96
Flow cytometric analysis of epidermal subpopulations from normal and psoriatic skin using monoclonal antibodies against intermediate filaments. van Erp PE, et al. **Am J Pathol** 1989 Nov;135(5):865–70
Recessive dystrophic epidermolysis bullosa skin displays a chronic growth–activated immunophenotype. Implications for carcinogenesis. Smoller BA, et al. **Arch Dermatol** 1990 Jan;126(1):78–83
Human epidermis contains coagulation factor XIII. Ando Y, et al. **Arch Dermatol Res** 1990;282(1):65–7
Histochemical aspects of stratum corneum function in the feline foot pad. Meyer W, et al. **Arch Dermatol Res** 1990; 281(8):541–3
Topical interferon–alpha in psoriasis increases epidermal calmodulin activity. Wollina U, et al. **Arch Dermatol Res** 1990;282(4):270–1
Identification of specific human epithelial cell integrin receptors as VLA proteins. Staquet MJ, et al. **Exp Cell Res** 1990 Apr;187(2):277–83
Keratin expression in equine normal epidermis and cutaneous papillomas using monoclonal antibodies. Hamada M, et al. **J Comp Pathol** 1990 May;102(4):405–20
Hematoxylin stainable epidermal protein of the newborn rat. IV. The change of antigenicity in situ by transglutaminase as determined by an immunofluorescent study. Takahashi M, et al. **J Dermatol** 1989 Jun;16(3):178–83
Reactivity of sera from bullous pemphigoid patients on blotted epidermal extracts as compared to indirect immunofluorescence technique [letter; comment] Haustein UF. **J Invest Dermatol** 1990 Jun;94(6):829 Comment on: J Invest Dermatol 1989 Feb;92(2):171–4.
Presence of serum albumin in normal human epidermis: possible implications for the nutrition and physiology of stratified epithelia. Presence of albumin in epidermis. Rabilloud T, et al. **Mol Biol Rep** 1988–89;13(4):213–9
[Epidermal cytokines, interleukins and the skin] Delaporte E, et al. **Ann Dermatol Venereol** 1989;116(6–7):511–7 **(Fre)**

CYTOLOGY

Immunohistochemical investigations in epidermal Merkel cells—a common phenotype with eccrine sweat gland epithelium. Wollina U. **Acta Histochem (Jena)** 1990; 88(1):47–50
Subcutaneous perfusion of tumor necrosis factor induces local proliferation of fibroblasts, capillaries, and epidermal cells, or massive tissue necrosis. Piguet PF, et al. **Am J Pathol** 1990 Jan;136(1):103–10
The direction of the mitotic axis in human epidermis. Pinkus H, et al. **Arch Dermatol** 1966 Sep;94(3):351–4
Colorimetric growth assay for epidermal cell cultures by their crystal violet binding capacity. Bonnekoh B, et al. **Arch Dermatol Res** 1989;281(7):487–90
A new model of epidermal differentiation: induction by mechanical stimulation. Görmar FE, et al. **Arch Dermatol Res** 1990;282(1):22–32
Effects of cytotoxic prostaglandin, delta 12–PGJ2 on protein synthesis and cytoskeleton in transformed epidermal cells in culture. Ikai K, et al. **Arch Dermatol Res** 1990; 282(2):131–4
Immunohistochemical analysis of chromogranin A and multiple peptides in the mammalian Merkel cell: further evidence for its paraneuronal function? Hartschuh W, et al. **Arch Histol Cytol** 1989;52 Suppl:423–31
Merkel cells in lower vertebrates. Whitear M. **Arch Histol Cytol** 1989;52 Suppl:415–22 (32 ref.)
Production of TGF–alpha and TGF–beta by cultured keratinocytes, skin and oral squamous cell carcinomas—potential autocrine regulation of normal and malignant epithelial cell proliferation. Partridge M, et al. **Br J Cancer** 1989 Oct;60(4):542–8
Use of cultured human epidermal keratinocytes for allografting burns and conditions for temporary banking of the cultured allografts. Bolívar–Flores J, et al. **Burns** 1990 Feb;16(1):3–8
Effect of 12–O–tetradecanoylphorbol–13–acetate on intercellular communication in various clones of mouse epidermal JB6 cells. Miki H, et al. **Cancer Res** 1990 Feb 15;50(4):1324–9
Comparison of epidermal patch size in X–chromosome–linked mosaic and dizygotic chimeric mice. Ng YK, et al. **Cell Differ Dev** 1990 Apr;30(1):27–34
Increased attachment and confluence of skin epidermal cells in culture induced by ascorbic acid: detection by permeation of trypan blue across cultured cell layers. Ohkura K, et al. **Cell Struct Funct** 1990 Jun;15(3):143–50
Epidermal cell kinetics of the pig: a review. Morris GM, et al. **Cell Tissue Kinet** 1990 Jul;23(4):271–82 (52 ref.)
Age–related changes in the cell kinetics of rat foot epidermis. Morris GM, et al. **Cell Tissue Kinet** 1990 Mar;23(2):113–23
The cell kinetics of the epidermis and follicular epithelium of the rat: variations with age and body site. Morris GM, et al. **Cell Tissue Kinet** 1989 May;22(3):213–22
Cell kinetics in mouse epidermis studied by bivariate DNA/bromodeoxyuridine and DNA/keratin flow cytometry. Kirkhus B, et al. **Cytometry** 1990;11(2):253–60
Characterisation of the peanut lectin–binding glycoproteins of human epidermal keratinocytes. Keeble S, et al. **Differentiation** 1990 Apr;43(2):139–45
Isolation of subpopulations of murine epidermal cells using monoclonal antibodies against differentiation–related cell surface molecules. Mackenzie IC, et al. **Differentiation** 1989 Aug;41(2):127–38
Filaggrin, an intermediate filament–associated protein: structural and functional implications from the sequence of a cDNA from rat. Haydock PV, et al. **DNA Cell Biol** 1990 May;9(4):251–61
The effects of exogenous epinephrine and environmental stress stimuli on the mitotic rates of larval urodele tissues. Chiakulas JJ, et al. **Exp Cell Res** 1966 Jan;41(1):197–205
Aging–related changes and topology of adhesion responses sensitive to cycloheximide on collagen substrata by human dermal fibroblasts. Flickinger KS, et al. **Exp Cell Res** 1990 Jan;186(1):158–68
Methods of successive multiparametric cytochemistry and microfluorometry on identical cells with special reference to cell cycle phases in a chick embryo. Tanaka S. **Exp Cell Res** 1990 Jan;186(1):6–14
Human epidermis reconstructed in vitro: a model to study keratinocyte differentiation and its modulation by retinoic acid. Regnier M, et al. **In Vitro Cell Dev Biol** 1989 Nov; 25(11):1000–8
Intercellular adhesion and its role in epidermal differentiation. Skerrow CJ. **Invest Cell Pathol** 1978 Jan–Mar;1(1):23–37 (111 ref.)
Epidermal G1–chalone and transforming growth factor–beta are two different endogenous inhibitors of epidermal cell proliferation. Richter KH, et al. **J Cell Physiol** 1990 Mar; 142(3):496–504
Magnesium and phosphate enrichment of culture medium stimulates the proliferation of epidermal cells from newborn and adult mice. Tennenbaum T, et al. **J Cell Physiol** 1990 Jun;143(3):431–8
Changes to desmosomal antigens and lectin–binding sites during differentiation in normal human epidermis: a quantitative ultrastructural study. Skerrow CJ, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):667–77
Epithelial stem cells in vivo. Potten CS, et al. **J Cell Sci Suppl** 1988;10:45–62 (81 ref.)
Epidermal stem cells in culture. Watt FM. **J Cell Sci Suppl** 1988;10:85–94 (50 ref.)
Heterogeneity of keratinocytes in the epidermal basal cell layer. Clausen OP, et al. **J Cutan Pathol** 1990 Jun; 17(3):129–43 (93 ref.)
The origin and fate of Merkel cell granules—an ultrastructural study. Nindl M, et al. **J Dermatol** 1990 Apr; 17(4):218–25
Retinoic acid inhibits the production of collagenase by human epidermal keratinocytes. Bailly C, et al. **J Invest Dermatol** 1990 Jan;94(1):47–51
Chromogranin A in the mammalian Merkel cell: cellular and subcellular distribution. Hartschuh W, et al. **J Invest Dermatol** 1989 Nov;93(5):641–8
UVB–induced epidermal hyperproliferation is modified by a single, topical treatment with a mitosis inhibitory epidermal pentapeptide. Olsen WM, et al. **J Invest Dermatol** 1990 Jan;94(1):101–6
Relationship between Merkel cells and nerve endings during embryogenesis in the mouse epidermis. Pasche F, et al. **J Invest Dermatol** 1990 Sep;95(3):247–51
The distinctive pattern of proteoglycan and glycosaminoglycan free chain synthesis by cultured human epidermal keratinocytes. Piepkorn M, et al. **J Invest Dermatol** 1990 Jan;94(1):107–13
Changes of electron spin resonance membrane fluidity in hexadecane–induced hyperproliferative epidermis. Tanaka T, et al. **J Invest Dermatol** 1989 Nov;93(5):682–6
TCR gamma/delta+ dendritic epidermal T cells as constituents of skin–associated lymphoid tissue. Tigelaar RE, et al. **J Invest Dermatol** 1990 Jun;94(6 Suppl):58S–63S (63 ref.)
Trans retinoic acid enhances the growth response of epidermal keratinocytes to epidermal growth factor and transforming growth factor beta. Tong PS, et al. **J Invest Dermatol** 1990 Jan;94(1):126–31
Three–dimensional electron microscopy of entire cells. Bron C, et al. **J Microsc** 1990 Jan;157 (Pt 1):115–26
Growth of melanocytes in human epidermal cell cultures. Staiano–Coico L, et al. **J Trauma** 1990 Aug;30(8):1037–42; discussion 1043
Random segregation of DNA strands in epidermal basal cells. Kuroki T, et al. **Jpn J Cancer Res** 1989 Jul;80(7):637–42
Human Merkel cell regeneration in skin derived from cultured keratinocyte grafts. Compton CC, et al. **Lab Invest** 1990 Aug;63(2):233–41
Origin of Thy–1+ dendritic epidermal cells of adult mice from fetal thymic precursors. Havran WL, et al. **Nature** 1990 Mar 1;344(6261):68–70
The unc–5, unc–6, and unc–40 genes guide circumferential migrations of pioneer axons and mesodermal cells on the epidermis in C. elegans. Hedgecock EM, et al. **Neuron** 1990 Jan;4(1):61–85
In vitro induction of proliferation and differentiation of uncommitted spleen cells by epidermal cell–derived cytokines. Aiba S, et al. **Tohoku J Exp Med** 1989 Jul; 158(3):187–202
Programmed cell death in the epidermis [letter; comment] Mier PD, et al. **Trends Biochem Sci** 1990 Mar;15(3):97 Comment on: Trends Biochem Sci 1989 Oct;14(10):393–4.
[Serial observation of human epidermal cell culture] Chen B. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1989 Dec;5(4):279–80, 318 (Eng. Abstr.) **(Chi)**
[Merkel cell: a still enigmatic epidermal cell] Mérot Y. **Rev Med Suisse Romande** 1989 Oct;109(10):857–60 **(Fre)**
[A new star in the heavens of epidermal proteins: loricrin—what is it?] Hohl D. **Hautarzt** 1990 Jun; 41(6):299–301 (9 ref.) (Eng. Abstr.) **(Ger)**
[Difference between the hair follicle cell and epidermal keratinocyte in vitro] Kuwana R, et al. **Nippon Hifuka Gakkai Zasshi** 1990 Feb;100(2):163–8 (Eng. Abstr.) **(Jpn)**
[Current theories on the function of Langerhans cells] Placek W. **Przegl Dermatol** 1988 Nov–Dec;75(6):454–9 (19 ref.) **(Pol)**
[The effect of the seeding density on the growth of a culture of human epidermocytes] Pal'tsyn AA, et al. **Biull Eksp Biol Med** 1989 Dec;108(12):724–7 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Tetracycline does not affect the trauma– and leukotriene B4–induced intraepidermal accumulation of polymorphonuclear leukocytes. Chang A, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):46–8
A possible mechanism of action for azelaic acid in the human epidermis. Schallreuter KU, et al. **Arch Dermatol Res** 1990; 282(3):168–71
Morphometric analysis of human epidermis treated with testosterone and dehydroepiandrosterone in organ culture. Tammi R, et al. **Arch Dermatol Res** 1989;281(6):417–23
Epidermal damage induced by irritants in man: a light and electron microscopic study. Willis CM, et al. **J Invest Dermatol** 1989 Nov;93(5):695–9

EMBRYOLOGY

Cystatin A and B in the development of human squamous epithelia. Pernu H, et al. **Acta Histochem (Jena)** 1990; 88(1):53–7
The appearance, density and distribution of melanocytes in human embryonic and fetal skin revealed by the anti–melanoma monoclonal antibody, HMB–45. Holbrook KA, et al. **Anat Embryol (Berl)** 1989;180(5):443–55
Differential keratin gene expression during the differentiation of the cement gland of Xenopus laevis. LaFlamme SE, et al. **Dev Biol** 1990 Feb;137(2):414–8
Pattern regulation in the ventral histoblasts of the housefly: induction of sternal pattern abnormalities by mechanical wounding of larval epidermal cells. Madhavan K, et al. **Dev Biol** 1990 May;139(1):42–55
Transcriptional regulation of a Xenopus embryonic epidermal keratin gene. Jonas EA, et al. **Development** 1989 Jun; 106(2):399–405
Epidermal development in the growth retarded fetal rat. Hoath SB, et al. **J Dev Physiol** 1990 Jan;13(1):41–50
Cellular polarity in cultured animal pole cells of Xenopus embryos. Asada–Kubota M. **J Ultrastruct Mol Struct Res** 1989 Dec;102(3):265–75
[Absence of bipolarity in Blaschko's lines (letter)] Happle R. **Ann Dermatol Venereol** 1990;117(5):397 **(Fre)**

ENZYMOLOGY

Membrane–bound phospholipase C activity in normal and psoriatic epidermis. Bergers M, et al. **Acta Derm Venereol (Stockh)** 1990;70(1):57–9
Tumor promotion and depletion of protein kinase C in epidermal JB6 cells. Kischel T, et al. **Biochem Biophys Res Commun** 1989 Dec 29;165(3):981–7
Epidermal adenylate cyclase system is regulated by diacylglycerol–protein kinase C signal, but not by calcium signal. Iizuka H, et al. **Br J Dermatol** 1990 Apr; 122(4):459–67
Identification of epidermal cell subpopulations with increased ornithine decarboxylase activity following treatment of murine epidermis with 12–O–tetradecanoylphorbol–13–acetate. Robertson FM, et al. **Cancer Res** 1990 Aug 1;50(15):4741–6
Characterization of the induction of ornithine decarboxylase activity by benzoyl peroxide in SENCAR mouse epidermis. Binder RL, et al. **Carcinogenesis** 1989 Dec;10(12):2351–7
Ceramidase activity in porcine epidermis. Wertz PW, et al. **FEBS Lett** 1990 Jul 30;268(1):110–2
A regiospecific monooxygenase with novel stereopreference is the major pathway for arachidonic acid oxygenation in isolated epidermal cells. Holtzman MJ, et al. **J Clin Invest** 1989 Nov;84(5):1446–53
Regulation of 3–hydroxy–3–methylglutaryl–coenzyme A reductase activity in murine epidermis. Modulation of enzyme content and activation state by barrier requirements. Proksch E, et al. **J Clin Invest** 1990 Mar; 85(3):874–82
Immunoblot demonstration of protein kinase C in pig epidermis. Koizumi H, et al. **J Dermatol** 1990 Jan;17(1):24–7
Partial purification and some characteristics of proteinase(s) induced by staphylococcal exfoliative toxin. Suzuki K, et al. **J Dermatol** 1989 Aug;16(4):289–95
[The epidermis as metabolically active tissue: regulation of lipid synthesis by the barrier function] Proksch E. **Z Hautkr** 1990 Mar;65(3):296–300 (22 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

C3d,g in normal human epidermal basement membrane

[letter; comment] Basset-Seguin N, et al.
Acta Derm Venereol (Stockh) 1990;70(3):273 Comment on: Acta Derm Venereol (Stockh) 1989;69(6):492–6.
Modifications of immunocompetent cells precede altered expression of epidermal differentiation antigens in psoriatic epidermis. Haftek M, et al.
Acta Derm Venereol Suppl (Stockh) 1989;146:20–5
Epidermal cytokines. Luger TA.
Acta Derm Venereol Suppl (Stockh) 1989;151:61–76; discussion 106–10 (102 ref.)
Immunoregulation in epidermis. II. Immunostimulatory and immunoinhibitory products of keratinocytes.
Stošić-Grujičić S, et al.
Acta Derm Venereol Suppl (Stockh) 1989;146:16–9
Stratum corneum antibodies detected by hemagglutination are not directed against keratin intermediate filaments. Qutaishat S, et al. **Arch Dermatol Res** 1990;282(2):89–92
Common antigen expression between human periderm and other tissues identified by GB1–monoclonal antibody. Schofield OM, et al. **Arch Dermatol Res** 1990;282(3):143–8
T cell receptor gamma/delta–bearing cells in the epidermis. Foster CA, et al. **Curr Probl Dermatol** 1990;19:9–16 (31 ref.)
Tissue-bound immunity: a mechanism of candidacidal activity. Takahashi H, et al. **Curr Top Med Mycol** 1989; 3:50–63 (41 ref.)
Delayed-type hypersensitivity to allogeneic mouse epidermal cell antigens. III. Analysis of suppressor cells. Ishii N, et al. **Exp Clin Immunogenet** 1987;4(1):48–55
Serotonin–like immunoreactivity in the epidermal club cells of teleost fishes. Zaccone G, et al. **Histochemistry** 1990; 93(4):355–7
Presentation of antigen to suppressor cells by a dimethylbenz (a) anthracene–resistant, Ia-positive, Thy-1–negative, I-J–restricted epidermal cell. Halliday GM, et al.
Immunology 1990 Jan;69(1):97–103
Intraepidermal neutrophilic IgA dermatosis. Kuan YZ, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 2):917–9
Human epidermal T cells predominantly belong to the lineage expressing alpha/beta T cell receptor. Foster CA, et al. **J Exp Med** 1990 Apr 1;171(4):997–1013
Langerhans cells that migrate to skin after intravenous infusion regulate the induction of contact hypersensitivity. Cruz PD Jr, et al. **J Immunol** 1990 Apr 1;144(7):2486–92
Rejection of skin allografts by CD4+ T cells is antigen-specific and requires expression of target alloantigen on Ia- epidermal cells. Rosenberg AS, et al. **J Immunol** 1989 Oct 15;143(8):2452–6
A soluble and immunoreactive fragment of pemphigus foliaceus antigen released by trypsinization of viable human epidermis. Martins CR, et al. **J Invest Dermatol** 1990 Aug; 95(2):208–12
Reactivity of sera from bullous pemphigoid patients on blotted epidermal extracts [letter; comment] Reano A, et al. **J Invest Dermatol** 1989 Nov;93(5):707 Comment on: J Invest Dermatol 1989 Feb;92(2):171–4.
Epidermolysis bullosa aquisita with basal epidermal cytoplasmic antibodies. Lee CW, et al.
J Korean Med Sci 1986 Sep;1(1):25–9
Ultraviolet light and free radicals: an immunologic theory of epidermal carcinogenesis. Axelrod M, et al.
Plast Reconstr Surg 1990 Sep;86(3):582–93 (72 ref.)
Splenic contribution to the recovery of ATPase/Ia+ epidermal cells in the skin of mice after exposure to ultraviolet radiation. Jun BD, et al. **Reg Immunol** 1989 Jul–Aug;2(4):225–35
Antigen-presenting activity of non–Langerhans epidermal cells in contact hypersensitivity reactions. Baadsgaard O, et al. **Scand J Immunol** 1990 Sep;32(3):217–24
Phenotype, ultrastructure, and function of CD1+DR+ epidermal cells that express CD36 (OKM5) in cutaneous T-cell lymphoma. Lisby S, et al. **Scand J Immunol** 1990 Aug;32(2):111–9
Dissociation of antigenicity and immunogenicity of neonatal epidermal allografts in the mouse. Demidem A, et al.
Transplantation 1990 May;49(5):966–71
[Study of carcinoembryonic antigen (CEA) in the epidermis of psoriasis vulgaris] Inoue S, et al.
Nippon Hifuka Gakkai Zasshi 1989 Jun;99(7):801–9 (Eng. Abstr.) **(Jpn)**
[Characteristics of cytoplasmic antigens of cells from differentiated epidermal layers in human thymic epithelium] Gnezditskaia EV, et al. **Biull Eksp Biol Med** 1990 Mar; 109(3):308–10 (Eng. Abstr.) **(Rus)**
[The localization of structurally specific antigens in squamous cell skin cancer using monoclonal antibodies to epidermal antigens] Kogan MG, et al. **Vopr Onkol** 1989;35(9):1032–6 (Eng. Abstr.) **(Rus)**
[Autoantibodies to different layers of epidermis during immunization of BALB/c mice with a culture of Group A Streptococcus treated with pepsin] Bazanova EA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1989 Jun;(6):86–90 (Eng. Abstr.) **(Rus)**

INJURIES

Epidermal rupture is the initiating factor for the Koebner response in psoriasis. Powles AV, et al.
Acta Derm Venereol (Stockh) 1990;70(1):35–8
Anti-fibronectin serum inhibits the disorganization of the dermal–epidermal junction in cultured wounded skin. Denefle JP, et al. **Biol Cell** 1989;67(1):91–5

INNERVATION

Effect of genetically determined immunodeficiency on epidermal dendritic cell populations in C57BL/6J mice. Sprecher E, et al. **Arch Dermatol Res** 1990;282(3):188–93

METABOLISM

Impaired migration of epidermal cells from decubitus ulcers in cell cultures. A cause of protracted wound healing? Seiler WO, et al. **Am J Clin Pathol** 1989 Oct;92(4):430–4
Essential fatty acids and polyunsaturated fatty acids: significance in cutaneous biology. Ziboh VA, et al.
Annu Rev Nutr 1990;10:433–50 (67 ref.)
Induction of procoagulant activity in human epidermal cells. Schöne A, et al. **Arch Dermatol Res** 1989;281(5):316–20
No evidence for the mutation of ras gene in psoriatic epidermis. Takahashi H, et al. **Arch Dermatol Res** 1990; 282(1):8–11
Interaction between corneocytes and stratum corneum lipid liposomes in vitro. Abraham W, et al.
Biochim Biophys Acta 1990 Jan 29;1021(2):119–25
Evidence of protease activity producing NH2-terminal truncated form of rat cystatin A in newborn rat epidermis. Takeda A, et al. **Biol Chem Hoppe Seyler** 1990 May;371 Suppl:233–8
Stratum corneum hydration and amino acid content in xerotic skin. Horii I, et al. **Br J Dermatol** 1989 Nov;121(5):587–92
An enzymatic method for distinguishing the stereoisomers of 12-hydroxyeicosatetraenoic acid in human epidermis and psoriatic scale. Opas EE, et al. **Br J Dermatol** 1989 Jan; 120(1):49–58
Intraepidermal leakage of plasma proteins after tape stripping of normal skin and uninvolved psoriatic skin. Verschoore M, et al. **Br J Dermatol** 1990 Mar;122(3):391–7
Distribution of covalent DNA adducts in mouse epidermal subpopulations after topical application of benzo(a)pyrene and 7,12-dimethylbenz(a)anthracene. Baer-Dubowska W, et al. **Cancer Res** 1990 May 15;50(10):3048–54
Oxidation and DNA binding of
(+)-7,8-dihydroxy-7,8-dihydrobenzo(a)pyrene in mouse epidermis in vivo and effects of coadministration of catechol. Melikian AA, et al. **Cancer Res** 1990 Mar 15; 50(6):1795–9
Dynamic changes of cell-surface glycoconjugates in human palmar epidermis following friction-blisters. Ohno J, et al. **Cell Tissue Res** 1989 Nov;258(2):403–8
Identification of murine type I keratin 9 (73 kDa) and its immunolocalization in neonatal and adult mouse foot sole epidermis. Schweizer J, et al. **Exp Cell Res** 1989 Sep; 184(1):193–206
Identification of a group of proteins that are strongly up-regulated in total epidermal keratinocytes from psoriatic skin [published erratum appears in FEBS Lett 1990 Jul 16;267(2):317] Celis JE, et al. **FEBS Lett** 1990 Mar 26; 262(2):159–64
A type 2A protein phosphatase dephosphorylates the elongation factor 2 and is stimulated by the phorbol ester TPA in mouse epidermis in vivo. Gschwendt M, et al. **FEBS Lett** 1989 Nov 6;257(2):357–60
Thyroid hormone–induced differential synthesis of water–insoluble proteins in epidermal cell cultures from the hind limb of Rana catesbeiana tadpoles in stages XII–XV and XVI–XIX. Ketola-Pirie CA, et al.
Gen Comp Endocrinol 1990 Aug;79(2):275–82
DNA synthesis is unaffected but subsequent cell division is delayed in tadpole hindlimb epidermis when thyroxine is given in the dark. Wright ML, et al.
Gen Comp Endocrinol 1990 Jul;79(1):89–94
Expression of keratin K14 in the epidermis and hair follicle: insights into complex programs of differentiation. Coulombe PA, et al. **J Cell Biol** 1989 Nov;109(5):2295–312
Transforming growth factor-beta 1 localization in normal and psoriatic epidermal keratinocytes in situ. Kane CJ, et al. **J Cell Physiol** 1990 Jul;144(1):144–50
Membrane and cytosolic interleukin-1 alpha and beta in normal human epidermal cells: variability of epitope exposure in immunohistochemistry. Anttila HS, et al.
J Invest Dermatol 1990 Jul;95(1):31–8
Arachidonic acid metabolism varies with the state of differentiation in density gradient-separated mouse epidermal cells. Cameron GS, et al. **J Invest Dermatol** 1990 Mar;94(3):292–6
Adhesion molecules on the plasma membrane of epidermal cells. II. The intercellular adhesion molecule-1 is constitutively present on the cell surface of human resting Langerhans cells. De Panfilis G, et al.
J Invest Dermatol 1990 Mar;94(3):317–21
Free radical reduction mechanisms in mouse epidermis skin homogenates. Fuchs J, et al. **J Invest Dermatol** 1989 Nov; 93(5):633–40
Internalization and acidification of surface HLA-DR molecules by epidermal Langerhans cells: a paradigm for antigen processing. Girolomoni G, et al.
J Invest Dermatol 1990 Jun;94(6):753–60
Vitamin A esterification in human epidermis: a relation to keratinocyte differentiation. Törmä H, et al.
J Invest Dermatol 1990 Jan;94(1):132–8
Studies of C3d,g in normal human epidermal basement membrane. Yancey KB, et al. **J Invest Dermatol** 1990 Jun; 94(6 Suppl):122S–127S (30 ref.)
Dietary supplementation with oils rich in (n-3) and (n-6) fatty acids influences in vivo levels of epidermal lipoxygenase products in guinea pigs. Miller CC, et al.
J Nutr 1990 Jan;120(1):36–44
Guinea pig epidermis generates putative anti-inflammatory metabolites from fish oil polyunsaturated fatty acids. Miller C, et al. **Lipids** 1989 Dec;24(12):998–1003
The effect of ultrasound on the in vitro penetration of ibuprofen through human epidermis. Brucks R, et al.
Pharm Res 1989 Aug;6(8):697–701
In vitro binding and internalization of HIV envelope glycoproteins by human epidermal Langerhans cells does not require the CD4–gp120–binding site. Schmitt D, et al.
Res Virol 1990 Mar-Apr;141(2):209–15
Decreased high-affinity epidermal growth factor receptors in psoriatic epidermis. Urano Y, et al.
Tokushima J Exp Med 1989 Dec;36(3–4):53–8
A cellular basis for pattern formation in the insect epidermis. Martinez Arias A. **Trends Genet** 1989 Aug;5(8):262–7 (51 ref.)
[Study of filaggrin in psoriasis] Fedi AM, et al.
G Ital Dermatol Venereol 1989 Apr;124(4):141–5 (Eng. Abstr.) **(Ita)**
[The effect of metabolites of the epidermal barrier on the development of phototoxic dermatitis] Tankov IuP.
Vestn Dermatol Venerol 1989;(12):18–20 (Eng. Abstr.) **(Rus)**
[Kinetics of eicosanoid formation in human epidermal cells in suspension] Vila L, et al. **Med Cutan Ibero Lat Am** 1989; 17(5):332–7 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Detection of fowlpox virus DNA by in situ hybridization using a biotinylated probe. Tanizaki E, et al. **Avian Dis** 1990 Apr–Jun;34(2):374–80

PARASITOLOGY

The epidermal location and possible feeding site of Psorergates ovis, the sheep itch mite. Sinclair A.
Aust Vet J 1990 Feb;67(2):59–62

PATHOLOGY

Proliferation and differentiation of cultured epidermal cells from patients with X-linked ichthyosis and ichthyosis vulgaris. Jensen PK, et al. **Acta Derm Venereol (Stockh)** 1990;70(2):99–104
Acrodermatitis enteropathica: zinc in epidermis in relation to changes in dosage of zinc [letter] Michaëlsson G.
Acta Derm Venereol (Stockh) 1990;70(1):90–1
Skin surface touch print: review of indications and uses. Katz HI. **Adv Dermatol** 1990;5:197–213;discussion 214 (23 ref.)
Cell proliferation kinetics of epidermis, hair follicles, and sebaceous glands of cocker spaniels with idiopathic seborrhea. Kwochka KW, et al. **Am J Vet Res** 1989 Nov; 50(11):1918–22
Fixed drug eruption. Expression of epidermal keratinocyte intercellular adhesion molecule-1 (ICAM-1). Shiohara T, et al. **Arch Dermatol** 1989 Oct;125(10):1371–6
UVB radiation further stimulates proliferation in the already hyperproliferative epidermis of the asebia mouse. Brown WR, et al. **Arch Dermatol Res** 1989;281(5):366–7
Flow cytometric quantification of human epidermal cells expressing keratin 16 in vivo after standardized trauma. de Mare S, et al. **Arch Dermatol Res** 1990;282(2):126–30
Electron microscopy of epidermal and dermal Langerhans' cells in long-lasting allergy patch tests. Kanerva L.
Arch Dermatol Res 1989;281(5):321–6
Histological defects of chronic benign familial pemphigus expressed in tissue culture. Regnier M, et al.
Arch Dermatol Res 1990;281(8):538–40
Cornified envelopes in congenital disorders of keratinization. Michel S, et al. **Br J Dermatol** 1990 Jan;122(1):15–21
Comparative histomorphometric changes in SENCAR mouse epidermis in response to multiple treatments with complete and stage-specific tumor promoting agents. Baxter CS, et al. **Carcinogenesis** 1989 Oct;10(10):1855–61
Hyperplasia of Merkel cells in hyperplasia epidermis: which induces which? [letter] Mérot Y. **Dermatologica** 1990; 181(1):73–4
The relationship of epidermal hyperplasia and Merkel cell hyperplasia [letter] Wollina U. **Dermatologica** 1990; 181(1):73
A sequential double immunoenzymic staining procedure to obtain cell kinetic information in normal and hyperproliferative epidermis. Van Erp PE, et al.
Histochem J 1989 Jun;21(6):343–7
Dolichos biflorus agglutinin (DBA) reveals a similar basal cell differentiation in normal and psoriatic epidermis. Kariniemi AL, et al. **Histochemistry** 1989;93(2):129–32
Cutaneous fibropapillomas of green turtles (Chelonia mydas). Jacobson ER, et al. **J Comp Pathol** 1989 Jul;101(1):39–52
A case of secondary cutaneous amyloidosis: epidermal keratinocytes produce amyloid in the cytoplasm. Aso M, et al. **J Cutan Pathol** 1990 Jun;17(3):176–81
Mucinous syringometaplasia with prominent epithelial hyperplasia and deep dermal involvement. Madison JF, et al. **J Cutan Pathol** 1990 Aug;17(4):220–4

PHYSIOLOGY

Lucigenin-dependent chemiluminescence in neutrophils stimulated with stratum corneum sheet. Kato T, et al.
Arch Dermatol Res 1990;282(3):208–9

Healing of epidermis and scab formation in exposed sutured incisions. Buntine JA. **Br J Surg** 1967 Aug;54(8):699–700

Interactions between cells of the immune system and hyaluronate synthesis by human dermal fibroblasts. Whiteside TL, et al. **Ciba Found Symp** 1989;143:170–81; discussion 182–6, 281–5 (13 ref.)

Transepidermal water loss and skin surface hydration in the non invasive assessment of stratum corneum function. Berardesca E, et al. **Derm Beruf Umwelt** 1990 Mar–Apr; 38(2):50–3 (28 ref.)

Ectopic expression of homeotic genes caused by the elimination of the Polycomb gene in Drosophila imaginal epidermis. Busturia A, et al. **Development** 1988 Dec; 104(4):713–20

Interferon and the epidermis: implications for cellular senescence. Peacocke M, et al. **Exp Gerontol** 1989; 24(5–6):415–21

Effects of tunicamycin on the avoidance reaction of epidermis by sensory neurites in co–cultures. Fichard A, et al. **Int J Dev Neurosci** 1990;8(3):245–54

Mechanical and failure behaviour of the stratum corneum. Koutroupi KS, et al. **J Biomech** 1990;23(3):281–7

Fibrinogen–mediated epidermal cell migration: structural correlates for fibrinogen function. Donaldson DJ, et al. **J Cell Sci** 1989 Sep;94 (Pt 1):101–8

Maturational steps of bone marrow–derived dendritic murine epidermal cells. Phenotypic and functional studies on Langerhans cells and Thy–1+ dendritic epidermal cells in the perinatal period. Elbe A, et al. **J Immunol** 1989 Oct 15;143(8):2431–8

Immature skin [editorial] **Lancet** 1989 Nov 11;2(8672):1138

Semipermeable dressing and transepidermal water loss in premature infants. Vernon HJ, et al. **Pediatrics** 1990 Sep; 86(3):357–62

Systemic distribution of apolipoprotein E secreted by grafts of epidermal keratinocytes: implications for epidermal function and gene therapy. Fenjves ES, et al. **Proc Natl Acad Sci U S A** 1989 Nov;86(22):8803–7

Effects of extra– and intracellular calcium concentration on DNA replication, lateral growth, and differentiation of human epidermal cells in culture. Jensen PK, et al. **Virchows Arch [B]** 1990;59(1):17–25

[The relation of infralow–frequency fluctuations of external electrical fields to electrophysical parameters of the body] Tornuev IuV, et al. **Fiziol Cheloveka** 1989 Jul–Aug; 15(4):118–22 **(Rus)**

RADIATION EFFECTS

Immunosuppression by factors released from UV–irradiated epidermal cells: selective effects on the generation of contact and delayed hypersensitivity after exposure to UVA or UVB radiation. Kim TY, et al. **J Invest Dermatol** 1990 Jan;94(1):26–32

A simple microwave technique for the separation of epidermis and dermis in skin uptake studies. Kumar S, et al. **Pharm Res** 1989 Aug;6(8):740–1

Splenic contribution to the recovery of ATPase/Ia+ epidermal cells in the skin of mice after exposure to ultraviolet radiation. Jun BD, et al. **Reg Immunol** 1989 Jul–Aug;2(4):225–35

SURGERY

Therapeutic success of epidermal grafting in generalized vitiligo is limited by the Koebner phenomenon. Hatchome N, et al. **J Am Acad Dermatol** 1990 Jan;22(1):87–91

TRANSPLANTATION

Cultured epidermal grafts in the treatment of leg ulcers. Phillips TJ, et al. **Adv Dermatol** 1990;5:33–48; discussion 49 (96 ref.)

Cultured epidermis for the coverage of massive burn wounds. A single center experience. Munster AM, et al. **Ann Surg** 1990 Jun;211(6):676–9; discussion 679–80

Characterization of "neo–dermis" formation beneath cultured human epidermal autografts transplanted on muscle fascia. Woodley DT, et al. **J Invest Dermatol** 1990 Jul;95(1):20–6

The use of cultured autologous epidermis in the treatment of extensive burn wounds. Teepe RG, et al. **J Trauma** 1990 Mar;30(3):269–75

[The treatment of chronic skin ulcers with cryo–preserved cultured allogeneic epidermis transplants (letter)] **Ned Tijdschr Geneeskd** 1990 Jun 2;134(22):1106–7 **(Dut)**

[The treatment of chronic skin ulcers with cryo–preserved cultured allogeneic epidermis transplants] Teepe RG, et al. **Ned Tijdschr Geneeskd** 1990 Apr 14;134(15):750–4 (Eng. Abstr.) **(Dut)**

[Davis grafts in the treatment of chronic suppuration of hollowed–out cavities] Sterkers JM, et al. **Acta Otorhinolaryngol Belg** 1989;43(5):489–97 (Eng. Abstr.) **(Fre)**

[Obtaining and transplantation of the epidermis in the treatment of full–layer skin defects] Ostrovskiĭ AA, et al. **Vestn Khir** 1990 Mar;144(3):94–8 **(Rus)**

ULTRASTRUCTURE

Pustulosis palmoplantaris. How initial ultrastructural alterations change into vesicles and pustules. Bacharach–Buhles M, et al. **Acta Derm Venereol Suppl (Stockh)** 1989;146:76–80

An electron microscopic study of the epidermal infiltrate in recurrent herpes simplex. Heng MC, et al. **Clin Exp Dermatol** 1989 May;14(3):199–202

The two–chain coiled–coil molecule of native epidermal keratin intermediate filaments is a type I–type II heterodimer. Steinert PM. **J Biol Chem** 1990 May 25; 265(15):8766–74

Ultrastructure of the epidermal–dermal junction and cutaneous basal lamina in Bowen's disease. Warfel KA, et al. **J Cutan Pathol** 1989 Aug;16(4):203–6

Isolation and culture of panning method–enriched Langerhans cells from dispase–dissociated epidermal cells of the mouse. Koyama Y, et al. **J Dermatol** 1990 Apr; 17(4):211–7

Freeze–fracture electron microscopy of in vitro reconstructed human epidermis. Boddé HE, et al. **J Invest Dermatol** 1990 Jul;95(1):108–16

Dermal and epidermal chromatophores of the Antarctic teleost Trematomus bernacchii. Obika M, et al. **Pigment Cell Res** 1990 Jan–Feb;3(1):33–7

[Ultrastructure of the epidermis in laboratory rats under normal conditions and after percutaneous administration of an organophosphate] Subrtová D. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(3):221–312 (Eng. Abstr.) **(Cze)**

[Ultrastructural changes in the epidermis in ichthyosis vulgaris] Getling ZN, et al. **Vestn Dermatol Venerol** 1989; (6):17–20 (Eng. Abstr.) **(Rus)**

EPIDERMITIS, EXUDATIVE, OF SWINE

MICROBIOLOGY

[Staphylococcus hyicus, the cause of exudative epidermitis of swine. Review] Lämmler C. **Berl Munch Tierarztl Wochenschr** 1990 Feb 1;103(2):60–3 (55 ref.) (Eng. Abstr.) **(Ger)**

EPIDERMODYSPLASIA VERRUCIFORMIS

GENETICS

[Keratoses with granular degeneration and their relations to each other. II. Heterophenotypic expression of hyperkeratosis (erythrodermia congenitalis ichthyosiformis bullosa), naevus hystricoides and Vörner keratosis palmoplantaris cum degeneratione granulosa] Hadlich J, et al. **Dermatol Monatsschr** 1989;175(7):418–24 (37 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Natural cell–mediated cytotoxicity against various target cells in patients with epidermodysplasia verruciformis. Majewski S, et al. **J Am Acad Dermatol** 1990 Mar; 22(3):423–7

Antigen presentation and T–cell activation in epidermodysplasia verruciformis. Cooper KD, et al. **J Invest Dermatol** 1990 Jun;94(6):769–76

[Polyclonal antibody to human papillomavirus–related antigens specific to epidermodysplasia verruciformis] Ishiji T. **Nippon Hifuka Gakkai Zasshi** 1989 May;99(6):683–95 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Types of human papillomavirus isolated from Japanese patients with epidermodysplasia verruciformis. Kanda R, et al. **Br J Dermatol** 1989 Oct;121(4):463–9

Human papillomavirus (HPV) type 50, a type associated with epidermodysplasia verruciformis (EV) and only weakly related to other EV–specific HPVs. Favre M, et al. **J Virol** 1989 Nov;63(11):4910

Epidermodysplasia verruciformis associated human papillomaviruses present a subgenus–specific organization of the regulatory genome region. Ensser A, et al. **Nucleic Acids Res** 1990 Jul 11;18(13):3919–22

EPIDERMOID CYST see **EPIDERMAL CYST**

EPIDERMOLYSIS BULLOSA

EB research grants [letter] Dart J. **Nature** 1990 Aug 16; 346(6285):604

[Congenital transient mechanobullous dermatosis (Bart's syndrome). A clinical case and review of the literature] Patrizi A, et al. **G Ital Dermatol Venereol** 1989 Oct; 124(10):447–50 (Eng. Abstr.) **(Ita)**

CHEMICALLY INDUCED

[Fatal toxic epidermolysis following administration of allopurinol] Coutellier P, et al. **Acta Clin Belg** 1989; 44(3):196–8 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Multiple keratoacanthomas and junctional epidermolysis bullosa. A therapeutic conundrum. Pellicano R, et al. **Arch Dermatol** 1990 Mar;126(3):305–6

Eye involvement in junctional epidermolysis bullosa. McDonnell PJ, et al. **Arch Ophthalmol** 1989 Nov; 107(11):1635–7

Squamous cell carcinoma in epidermolysis bullosa. Treatment with systemic chemotherapy. Lentz SR, et al. **Cancer** 1990 Sep 15;66(6):1276–8 (15 ref.)

A case of pyloric atresia associated with junctional epidermolysis bullosa. Ishigami T, et al. **Eur J Pediatr** 1990 Feb;149(5):306–7

Epidermolysis bullosa acquisita preceding the development of systemic lupus erythematosus. Boh E, et al. **J Am Acad Dermatol** 1990 Apr;22(4):587–93

[Non–fatal junctional epidermolysis bullosa (generalized, atrophic and benign)] Prigent F, et al. **Ann Dermatol Venereol** 1989;116(11):786–8 **(Fre)**

[Hereditary epidermolysis bullosa and laryngeal involvement] Nègre V, et al. **Arch Fr Pediatr** 1990 Feb;47(2):121–4 (Eng. Abstr.) **(Fre)**

[Gastrointestinal manifestations of recessive dystrophic epidermolysis bullosa] Michel–Aceves R, et al. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):20–5 (24 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Immunofluorescence on salt–split skin for the diagnosis of epidermolysis bullosa acquisita. Woodley DT. **Arch Dermatol** 1990 Feb;126(2):229–31 (23 ref.)

Skin diseases that may mimic child abuse [letter] Colver GB, et al. **Br J Dermatol** 1990 Jul;123(1):129

Direct immunofluorescence studies of sodium chloride–separated skin in the differential diagnosis of bullous pemphigoid and epidermolysis bullosa acquisita. Gammon WR, et al. **J Am Acad Dermatol** 1990 Apr; 22(4):664–70

Prenatal diagnosis of junctional epidermolysis bullosa associated with pyloric atresia. Nazzaro V, et al. **J Med Genet** 1990 Apr;27(4):244–8

Prenatal diagnosis of junctional epidermolysis bullosa [letter; comment] Eady RA, et al. **Lancet** 1989 Dec 16;2(8677):1453 Comment on: Lancet 1989 Oct 28;2(8670):1035–6.

Prenatal diagnosis of junctional epidermolysis bullosa Herlitz type [letter] [see comments] Hausser I, et al. **Lancet** 1989 Oct 28;2(8670):1035–6 Comment in: Lancet 1989 Dec 16;2(8677):1453.

Fetal skin biopsy in prenatal diagnosis of some genodermatoses. Bakharev VA, et al. **Prenat Diagn** 1990 Jan;10(1):1–12

Applicability of 19–DEJ–1 monoclonal antibody for the prenatal diagnosis or exclusion of junctional epidermolysis bullosa. Fine JD, et al. **Prenat Diagn** 1990 Apr;10(4):219–29

[Cockayne–Touraine epidermolysis bullosa dystrophica. A case report] Biedermann T, et al. **Kinderarztl Prax** 1989 Dec;57(12):611–6 (Eng. Abstr.) **(Ger)**

[The prenatal diagnosis of Herlitz's borderline epidermolysis bullosa letalis] Alvazian AA, et al. **Vestn Dermatol Venerol** 1990;(1):11–3 (Eng. Abstr.) **(Rus)**

[Epidermolysis bullosa hereditaria dystrophica: diagnostic problems] Dovijarski M, et al. **Med Pregl** 1989; 42(11–12):411–3 (Eng. Abstr.) **(Ser)**

DRUG THERAPY

Intractable epidermolysis bullosa acquisita: efficacy of cyclosporin A. Merle C, et al. **Dermatologica** 1990; 181(1):44–7

Clearing of epidermolysis bullosa acquisita with cyclosporine [letter; comment] Layton AM, et al. **J Am Acad Dermatol** 1990 Mar;22(3):535–6 Comment on: J Am Acad Dermatol 1988 Nov;19(5 Pt 2):937–42.

Mupirocin–resistant Staphylococcus aureus after long–term treatment of patients with epidermolysis bullosa. Moy JA, et al. **J Am Acad Dermatol** 1990 May;22(5 Pt 1):893–5

Transient acantholytic dermatosis treated with isotretinoin. Mancuso A, et al. **J Am Osteopath Assoc** 1990 Feb; 90(2):179–82

Cyclosporin for dystrophic epidermolysis bullosa [letter] Husz S, et al. **Lancet** 1989 Dec 9;2(8676):1393–4

ENZYMOLOGY

[Epidermolysis bullosa and collagenoses] Cozzani E, et al. **G Ital Dermatol Venereol** 1989 Sep;124(9):397–402 (40 ref.) **(Ita)**

EPIDEMIOLOGY

Inherited epidermolysis bullosa in Croatia [comment] Fine JD, et al. **Pediatr Dermatol** 1990 Jun;7(2):147–9 Comment on: Pediatr Dermatol 1990 Jun;7(2):108–10.

Occurrence of hereditary bullous epidermolyses in Croatia [see comments] Pavičić Z, et al. **Pediatr Dermatol** 1990 Jun;7(2):108–10 Comment in: Pediatr Dermatol 1990 Jun;7(2):147–9.

[A study on the estimation of prevalence of epidermolysis bullosa in Japan] Inaba Y, et al. **Nippon Hifuka Gakkai Zasshi** 1989 Aug;99(9):1021–6 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

[A case of recessive dystrophic epidermolysis bullosa associated with dwarfism with special reference to pathophysiological role of growth hormone] Nakamura F, et al. **Nippon Naibunpi Gakkai Zasshi** 1990 Feb 20; 66(2):94–100 (Eng. Abstr.) **(Jpn)**

GENETICS

Epidermolysis bullosa: evidence for linkage to genetic markers on chromosome 1 in a family with the autosomal dominant simplex form. Humphries MM, et al. **Genomics** 1990 Jul;7(3):377–81

[Keratoses with granular degeneration and their relations to each other. II. Heterophenotypic expression of hyperkeratosis (erythrodermia congenitalis ichthyosiformis bullosa), naevus hystricoides and Vörner keratosis palmoplantaris cum degeneratione granulosa] Hadlich J, et al. **Dermatol Monatsschr** 1989;175(7):418–24 (37 ref.) (Eng. Abstr.) (Ger)

[Keratoses with granular degeneration and their relations to each other. I. Epidermolytic hyperkeratosis (erythrodermia congenitalis ichthyosiformis bullosa)] Hadlich J, et al. **Dermatol Monatsschr** 1989;175(7):409–17 (0 ref.) (Eng. Abstr.) (Ger)

[Acanthokeratolytic epidermal nevus: acanthokeratolysis is hereditary, not the nevus] Happle R. **Hautarzt** 1990 Mar; 41(3):117–8 (12 ref.) (Eng. Abstr.) (Ger)

[Dilatation treatment of esophageal stenoses in young patients with recessive epidermolysis bullosa dystrophica] Seitz HK, et al. **Z Gastroenterol** 1990 Mar;28(3):157–9 (Eng. Abstr.) (Ger)

[Hallopeau–Siemens' congenital epidermolysis bullosa dystrophica] Alvazian AA, et al. **Vestn Dermatol Venerol** 1990;(2):33–7 (Eng. Abstr.) (Rus)

IMMUNOLOGY

19–DEJ–1, a monoclonal antibody to the hemidesmosome–anchoring filament complex, is the only reliable immunohistochemical probe for all major forms of junctional epidermolysis bullosa. Fine JD. **Arch Dermatol** 1990 Sep;126(9):1187–90

Epidermolysis bullosa acquisita. Incidence in patients with basement membrane zone antibodies. Zhu XJ, et al. **Arch Dermatol** 1990 Feb;126(2):171–4

Epidermolysis bullosa acquisita antigen and the carboxy terminus of type VII collagen have a common immunolocalization to anchoring fibrils and lamina densa of basement membrane. Shimizu H, et al. **Br J Dermatol** 1990 May;122(5):577–85

Heavy and light chain isotypes of immunoglobulin in epidermolysis bullosa acquisita. Mooney E, et al. **J Invest Dermatol** 1990 Sep;95(3):317–9

METABOLISM

Recessive dystrophic epidermolysis bullosa skin displays a chronic growth–activated immunophenotype. Implications for carcinogenesis. Smoller BA, et al. **Arch Dermatol** 1990 Jan;126(1):78–83

Type VII collagen is expressed but anchoring fibrils are defective in dystrophic epidermolysis bullosa inversa. Bruckner–Tuderman L, et al. **Br J Dermatol** 1990 Mar; 122(3):383–90

Intraepidermal type VII collagen. Evidence for abnormal intracytoplasmic processing of a major basement membrane protein in rare patients with dominant and possibly localized recessive forms of dystrophic epidermolysis bullosa. Fine JD, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 1):188–95

Expression of integrins in junctional and dystrophic epidermolysis bullosa. Nazzaro V, et al. **J Invest Dermatol** 1990 Jul;95(1):60–4

Intra–epidermal retention of type VII collagen in a patient with recessive dystrophic epidermolysis bullosa. Smith LT, et al. **J Invest Dermatol** 1990 Feb;94(2):261–4

PATHOLOGY

Eosinophilic infiltrates in epidermolysis bullosa. Roth RR, et al. **Arch Dermatol** 1990 Sep;126(9):1191–4

Abnormal expression of hemidesmosome–like structures by junctional epidermolysis bullosa keratinocytes in vitro. Chapman SJ, et al. **Br J Dermatol** 1990 Aug;123(2):137–44

Cultured epithelia from junctional epidermolysis bullosa letalis keratinocytes express the main phenotypic characteristics of the disease. Thomas L, et al. **Br J Dermatol** 1990 Feb;122(2):137–45

Congenital localized absence of skin associated with blistering of the skin and mucous membranes: Bart's syndrome. Gharpuray MB, et al. **Cutis** 1989 Oct;44(4):318–20

The eye in dystrophic epidermolysis bullosa: clinical and immunopathological findings. McDonnell PJ, et al. **Eye** 1989;3 (Pt 1):79–83

Prenatal diagnosis of genodermatoses by ultrastructural diagnostic markers in extra–embryonic tissues: defective hemidesmosomes in amnion epithelium of fetuses affected with epidermolysis bullosa Herlitz type (an alternative prenatal diagnosis in certain cases). Hausser I, et al. **Hum Genet** 1990 Aug;85(3):367–75

Epidermolysis bullosa—pyloric atresia syndrome. Nair PM, et al. **Indian J Pediatr** 1989 Mar–Apr;56(2):283–6

Pretibial epidermolysis bullosa: report of a case. Lichtenwald DJ, et al. **J Am Acad Dermatol** 1990 Feb;22(2 Pt 2):346–50

Epidermolysis bullosa dystrophica inversa in a child. Bruckner–Tuderman L, et al. **Pediatr Dermatol** 1990 Jun; 7(2):116–21

[Acquired, surface giant nevus cell nevi in generalized, atrophic, benign epidermolysis bullosa] Grubauer G, et al. **Hautarzt** 1989 Aug;40(8):523–6 (Eng. Abstr.) (Ger)

[Bullous ichthyosis. A particular form of epidermolytic hyperkeratosis] Mariano MA, et al. **Med Cutan Ibero Lat Am** 1989;17(6):379–82 (Eng. Abstr.) (Por)

VETERINARY

Zinc deficiency by any other name... [letter] Bassett H. **Vet Rec** 1989 Dec 16;125(25):628

EPIDERMOPHYTON

DRUG EFFECTS

Ultrastructural alterations in Epidermophyton floccosum and Trichophyton mentagrophytes exposed in vitro to protoanemonin. Mares D, et al. **Cytobios** 1990; 61(245):89–95

EPIDERMOPHYTOSIS see TINEA

EPIDERMOTOXINS see DERMOTOXINS

EPIDIDYMIS

Tetracycline sclerotherapy of hydroceles and epididymal cysts. Long–term results. Honnens de Lichtenberg M, et al. **Acta Chir Scand** 1990 Jun–Jul;156(6–7):439–40

Papillary cystadenocarcinoma of the epididymis—report of a case. Wang TY, et al. **Chung Hua I Hsueh Tsa Chih** 1990 Feb;45(2):139–42

Rhabdomyosarcoma of the testicular appendage in an infant: case report. Goff WB 2d, et al. **Clin Pediatr (Phila)** 1990 Jul;29(7):412–3

Adenomatoid tumor of the epididymis with special reference to immunohistochemical study of 3 cases. Sakai T, et al. **Hinyokika Kiyo** 1989 Sep;35(9):1537–42

Torsion of paradidymis or Giraldés' organ: an uncommon cause of acute scrotum in pediatric age group. Orazi C, et al. **JCU** 1989 Oct;17(8):598–601

A rare scrotal mass: fibrous pseudotumor of epididymis. Göğüş O, et al. **Urol Int** 1990;45(1):63–4

[A case of metastasis of a kidney carcinoma to the epididymis] Panchev P, et al. **Khirurgiia (Sofiia)** 1989;42(4):74–5 (Bul)

[A case of primary bilateral epididymal leiomyoma] Hata R, et al. **Hinyokika Kiyo** 1989 Jul;35(7):1247–9 (3 ref.) (Eng. Abstr.) (Jpn)

[Klippel–Trenaunay–Weber syndrome with papillary cystadenoma of the epididymis: a case report] Kawakami Y, et al. **Hinyokika Kiyo** 1989 Nov;35(11):1977–80 (16 ref.) (Eng. Abstr.) (Jpn)

[Epididymal metastasis of cancer of the breast] Carnero Bueno J, et al. **Actas Urol Esp** 1990 Mar–Apr;14(2):150–1 (Eng. Abstr.) (Spa)

ABNORMALITIES

Malformations of the epididymis in undescended testis. Koff WJ, et al. **J Urol** 1990 Feb;143(2):340–3

Abnormal distribution of CF delta F508 allele in azoospermic men with congenital aplasia of epididymis and vas deferens [letter] Dumur V, et al. **Lancet** 1990 Aug 25;336(8713):512

ANALYSIS

Immunohistochemical localization of 54,000 dalton sialoglycoprotein in the epididymal duct of the germ cell–free W/Wv mouse. Toshimori K, et al. **Arch Histol Cytol** 1990 Jul;53(3):339–49

Immunolocalization and concentrations of inhibin alpha in the ovine testis and excurrent duct system. Veeramachaneni DN, et al. **Biol Reprod** 1989 Sep;41(3):499–503

Immunocytochemical detection of prolactin or prolactin–like immunoreactivity in epididymis of mature male mouse. Brumlow WB, et al. **Histochemistry** 1990;93(3):299–304

Autoradiographic localization of [3H]oestradiol in epididymis, seminal vesicles and prostate of the fetal guinea–pig. Hatier R, et al. **Int J Androl** 1990 Apr; 13(2):147–54

Localization of androgen receptors in ram epididymal principal cells. Tekpetey FR, et al. **J Reprod Fertil** 1989 Sep;87(1):311–9

ANATOMY & HISTOLOGY

Structural features of the epididymis in a dasyurid marsupial (Antechinus stuartii). Taggart DA, et al. **Cell Tissue Res** 1989 Oct;258(1):203–10

Morphometric and stereological analysis of rat testis and epididymis in an early phase of saturnism. Kempinas WG, et al. **Exp Biol** 1988;48(1):51–6

[Presence of epithelial crypts in the chamois (Rupicapra rupicapra L.) epididymis. Preliminary note] Gentile R, et al. **Boll Soc Ital Biol Sper** 1989 Jun;65(6):549–54 (Eng. Abstr.) (Ita)

BLOOD SUPPLY

Microvasculature of the epididymis in the boar. Stoffel M, et al. **Cell Tissue Res** 1990 Mar;259(3):495–501

CYTOLOGY

Ficoll gradient isolation of immature sperm of high purity and intactness from goat epididymis. Haldar S, et al. **Arch Androl** 1990;24(2):125–8

Cytological response of the principal cells in the initial segment of the epididymal duct to efferent duct cutting in mice. Abe K, et al. **Arch Histol Cytol** 1989 Oct; 52(4):321–6

Histologic changes in the mouse epididymis fixed in the abdominal cavity. Takano H, et al. **Arch Histol Cytol** 1990 May;53(2):179–86

Morphological features of principal cells in the ovine epididymis: a quantitative and qualitative study. Marengo SR, et al. **Biol Reprod** 1990 Jan;42(1):167–79

On the proluminal movement of 3H–androgens across the rat epididymal epithelium. Turner TT, et al. **Biol Reprod** 1989 Jul;41(1):143–52

Modified procedure for isolation of epithelial cells of rat epididymal caput. Dominiak B, et al. **Endocrinol Exp** 1989 Sep;23(3):235–47

Light microscopical structure of the excurrent ducts and distribution of spermatozoa in the Australian rodents Pseudomys australis and Notomys alexis. Peirce EJ, et al. **J Anat** 1989 Feb;162:195–213

Ductal epithelial cells cultured from human foetal epididymis and vas deferens: relevance to sterility in cystic fibrosis. Harris A, et al. **J Cell Sci** 1989 Apr;92 (Pt 4):687–90

Pitted pattern in the human epididymis. Nistal M, et al. **J Reprod Fertil** 1990 Jul;89(2):655–61

DRUG EFFECTS

Swainsonine induces the production of hybrid glycoproteins and accumulation of oligosaccharides in male reproductive tissues of the rat. Tulsiani DR, et al. **Biol Reprod** 1990 Jul; 43(1):130–8

Effects of methylmercury on mouse epididymis and spermatozoa. Rao MV. **Biomed Biochim Acta** 1989; 48(8):577–82

Effect of alpha–chlorohydrin on in situ pH in rat testis and epididymis. Caflisch CR, et al. **Contraception** 1990 Feb; 41(2):207–12

Supersensitivity to noradrenaline in preparations of rat cauda epididymis after vasectomy. Ventura S, et al. **Eur J Pharmacol** 1989 Dec 19;174(2–3):227–35

Effect of angiotensins on electrogenic anion transport in monolayer cultures of rat epididymis. Wong PY, et al. **J Endocrinol** 1990 Jun;125(3):449–56

Cadmium inhalation and male reproductive toxicity. Ragan HA, et al. **Rev Environ Contam Toxicol** 1990;114:1–22 (134 ref.)

[Morphologic evaluation of the effect of long–term administration of ammonium fluoride on the seminiferous epithelium and epididymis in the rat] Różewicka L, et al. **Patol Pol** 1989;40(3):267–72 (Eng. Abstr.) (Pol)

[Accelerated methods for studying gonadotoxic effects of substances] Ivanov IuV. **Gig Sanit** 1990 Jan;(1):72–4 (Rus)

EMBRYOLOGY

Embryonal remnants in inguinal hernia sacs. Popek EJ. **Hum Pathol** 1990 Mar;21(3):339–49

ENZYMOLOGY

Distribution of sodium–potassium ATPase in the rat testis and epididymis. Byers S, et al. **Am J Anat** 1990 May; 188(1):31–43

Solution hybridization quantitation of G6PD mRNA in rat epididymal fat pads. Louie P, et al. **Biochim Biophys Acta** 1990 Sep 10;1087(1):25–30

Bicarbonate dependence of cAMP accumulation induced by phorbol esters in hamster spermatozoa. Visconti PE, et al. **Biochim Biophys Acta** 1990 Sep 1;1054(2):231–6

Immunohistochemical localization of prostaglandin H synthase in the epididymis and vas deferens of the mouse. Marshburn PB, et al. **Biol Reprod** 1989 Sep;41(3):491–7

Histochemical localization and quantification of alpha–glucosidase in the epididymis of men and laboratory animals. Yeung CH, et al. **Biol Reprod** 1990 Apr; 42(4):669–76

Effect of antiandrogens on some key enzymes of glycolysis in epididymis and ventral prostate of rat. Gupta G, et al. **Indian J Exp Biol** 1989 Apr;27(4):324–8

Gamma–glutamyl transpeptidase in rat epididymis: effects of castration, hemicastration and efferent duct ligation. Agrawal YP, et al. **Int J Androl** 1989 Aug;12(4):321–8

Genetic identification of non–specific esterases of the mouse cauda epididymidis and description of esterase–28, a new carboxylesterase isoenzyme (EC 3.1.1.1). von Deimling O, et al. **J Reprod Fertil** 1990 Jan;88(1):41–50

Lysosomal alpha–D–mannosidase from rat epididymis. Tulsiani DR, et al. **Methods Enzymol** 1989;179:500–4

Influence of rete testis fluid deprivation on the kinetic parameters of goat epididymal 5 alpha–reductase. Kelce WR, et al. **Steroids** 1990 Jan;55(1):27–31

GROWTH & DEVELOPMENT

The effect of non–union of testis and epididymis and of cryptorchidism on the development of epididymis and ductus deferens in the rat. Johansen TE, et al. **Andrologia** 1989 Sep–Oct;21(5):441–8

Inhibitory effects of technical grade methoxychlor on development of neonatal male mouse reproductive organs.

Cooke PS, et al. **Biol Reprod** 1990 Mar;42(3):585–96

Changes in testis, epididymis and other accessory organs of male rats treated with anandron during sexual maturation. Dhar JD, et al. **Endocr Res** 1990;16(2):231–9

Immunolocalization of type IV collagen and laminin during rat gonadal morphogenesis and postnatal development of the testis and epididymis. Gelly JL, et al. **Histochemistry** 1989;93(1):31–7

Effect of LH, FSH, LH + FSH and homoplastic pituitary extract on developing testis and epididymis of pigeon Columba livia. Nayak MS, et al. **Indian J Exp Biol** 1990 Apr;28(4):326–8

Maturation events of epididymis in albino rats during puberal transition under hypo and hyperprolactinemia. Prasad M, et al. **Indian J Exp Biol** 1989 Nov;27(11):925–9

Ultrastructural studies on the development of the blood–epididymis barrier in immature rats. Agarwal A, et al. **J Androl** 1989 Nov–Dec;10(6):425–31

IMMUNOLOGY

Presence and distribution of leucocyte subsets in the murine epididymis after vasectomy. Nashan D, et al. **Int J Androl** 1990 Feb;13(1):39–49

INNERVATION

The effects of bradykinin agonists and antagonists on visceral polymodal receptor activities. Mizumura K, et al. **Pain** 1990 Feb;40(2):221–7

[Microscopic innervation of the spermatic ducts and testis. II. Ductus epididymis] Suárez-Garnacho S, et al. **Arch Esp Urol** 1989 Jul–Aug;42(6):499–504 (Eng. Abstr.) **(Spa)**

METABOLISM

Immunocytochemical demonstration of cholecystokinin-like immunoreactivity in spermatozoa in monkey testis and epididymis. Pelto-Huikko M, et al. **Acta Physiol Scand** 1989 Nov;137(3):465–6

Proluminal movement of 3H-androgen across the epididymal epithelium in the rat after hypophysectomy and gonadotropin supplementation. Yamamoto M, et al. **Biol Reprod** 1989 Sep;41(3):474–9

Immunohistochemical investigation of different cytokeratins and vimentin in the human epididymis from the fetal period up to adulthood. Kasper M, et al. **Cell Tissue Res** 1989 Sep;257(3):661–4

Effect of testosterone propionate on levels of carnitine and testicular androgen binding protein (ABP) in rat epididymis. Böhmer T, et al. **Endocrinology** 1977 Mar; 100(3):835–8

Diverse secretory patterns of clusterin by epididymis and prostate/seminal vesicles undergoing cell regression after orchiectomy. Grima J, et al. **Endocrinology** 1990 Jun; 126(6):2989–97

Oxytocin in the ovine ductuli efferentes and caput epididymidis: immunolocalization and endocytosis from the luminal fluid. Veeramachaneni DN, et al. **Endocrinology** 1990 Feb;126(2):1156–64

Secretory agonists stimulate a rise in intracellular cyclic AMP but not Ca2+ and inositol phosphates in cultured rat epididymal epithelium. Wong PY, et al. **Exp Physiol** 1990 May;75(3):321–37

Lectin binding characteristics of mouse epididymal fluid and sperm extracts. Rankin TL, et al. **Gamete Res** 1989 Dec; 24(4):439–51

Heterogeneity of epididymal spermatozoa of the hamster. Sullivan R, et al. **Gamete Res** 1989 Oct;24(2):229–36

Effect of corticosterone on epididymal lipids in pubertal rat. Balasubramanian K, et al. **Indian J Exp Biol** 1989 Aug; 27(8):709–13

Effect of gossypol on the concentration of sodium and potassium in the rat epididymis. Kaur S. **Int J Androl** 1989 Aug;12(4):318–20

Cloning and analysis of mRNAs expressed specifically in the human epididymis [published erratum appears in Int J Androl 1990 Aug;13(4):327] Kirchhoff C, et al. **Int J Androl** 1990 Apr;13(2):155–67

Acidification of epididymal fluid in the boar. Rodriguez-Martinez H, et al. **Int J Androl** 1990 Jun; 13(3):238–43

Fluid-phase transcytosis in the primate epididymis in vitro and in vivo. Yeung CH, et al. **Int J Androl** 1989 Oct; 12(5):384–94

Proteins in luminal fluid of the ram excurrent ducts: changes in composition and evidence for differential endocytosis. Veeramachaneni DN, et al. **J Androl** 1990 Mar–Apr; 11(2):140–54

Purification and crystallization of a retinoic acid-binding protein from rat epididymis. Identity with the major androgen-dependent epididymal proteins. Newcomer ME, et al. **J Biol Chem** 1990 Aug 5;265(22):12876–9

The inhibition by calmodulin of thyroid-stimulating hormone binding to epididymal fat, testis and thyroid membranes in the guinea-pig. Inui T, et al. **J Endocrinol** 1990 Apr; 125(1):103–7

Partial purification of androgen binding protein from bull epididymis. Barbey P, et al. **J Steroid Biochem** 1990 Feb; 35(2):307–11

Transepithelial movement of non-polar and polar compounds in male rat reproductive tubule examined by in vivo microperifusion and in vivo micropuncture. Yamamoto M, et al. **J Urol** 1990 Apr;143(4):853–6

Potassium channel blockers inhibit anion secretion in cultured rat epididymal epithelium. Wong PY. **Jpn J Physiol** 1989; 39(4):595–607

A spermatozoa-associated factor regulates proenkephalin gene expression in the rat epididymis. Garrett JE, et al. **Mol Endocrinol** 1990 Jan;4(1):108–18

Protein synthesis and secretion in the human epididymis and immunoreactivity with sperm antibodies. Ross P, et al. **Mol Reprod Dev** 1990 May;26(1):12–23

[Prolonged fasting on the lipolytic activity of isolated adipocytes of the rat epididymis] Ben Cheikh R, et al. **C R Soc Biol (Paris)** 1989;183(3):232–9 (Eng. Abstr.) **(Fre)**

PARASITOLOGY

Besnoitiosis of the reproductive tract of a Blue Duiker (Cephalophus monticola). Foley GL, et al. **Vet Parasitol** 1990 May;36(1–2):157–63

PATHOLOGY

Prevention of high altitude-induced testicular disturbances by previous treatment with cyproheptadine in male rats. Gonzales GF, et al. **Arch Androl** 1990;24(2):201–5

Papillary cystadenoma of the epididymis. A report of three cases with lectin histochemistry. Kragel PJ, et al. **Arch Pathol Lab Med** 1990 Jul;114(7):672–5

Idiopathic hematoma of the epididymis: presentation of three cases. Nistal M, et al. **Eur Urol** 1990;17(2):178–80

Seminal alpha-glucosidase activity as a marker of epididymal pathology in nonazoospermic men consulting for infertility. Guerin JF, et al. **J Androl** 1990 May–Jun;11(3):240–5

Hodgkin's disease of the epididymis and testis. Glaholm J, et al. **J R Soc Med** 1989 Sep;82(9):558–9

Leiomyoblastoma of the epididymis in a child. Tokunaka S, et al. **J Urol** 1990 May;143(5):991–3

The ultrasonographic appearance of coexistent epididymal and testicular sarcoidosis. Burke BJ, et al. **JCU** 1990 Jul–Aug;18(6):522–6

PHYSIOLOGY

Direct evaluation of acidification by rat testis and epididymis: role of carbonic anhydrase. Caflisch CR, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E143–50

Physiologic and pharmacologic studies on the motility of isolated guinea pig cauda epididymidis. Da Silva e Souza MC, et al. **Fertil Steril** 1975 Dec;26(12):1250–6

Improvement in the assessment of human epididymal function by the use of inhibitors in the assay of alpha-glucosidase in seminal plasma. Cooper TG, et al. **Int J Androl** 1990 Aug;13(4):297–305

The role of angiotensin-converting enzyme in the rat epididymis. Wong PY, et al. **J Endocrinol** 1990 Jun; 125(3):457–65

Effects of breeding season and mating on total number and distribution of spermatozoa in the epididymis of the brown marsupial mouse, Antechinus stuartii. Taggart DA, et al. **J Reprod Fertil** 1990 Jan;88(1):81–91

Ablation of the inferior mesenteric plexus in the rat: alteration of sperm storage in the epididymis and vas deferens. Billups KL, et al. **J Urol** 1990 Mar;143(3):625–9

Plasma membrane changes during epididymal transit in the guinea pig spermatozoa. Burgos MH, et al. **Microsc Electron Biol Celular** 1988 Dec;12(2):197–215

Abnormal fluid transport by the epididymis as a cause of obstructive azoospermia. Wong PY. **Reprod Fertil Dev** 1990;2(2):115–27 (52 ref.)

SECRETION

Immunochemical localization and association with spermatozoa of androgen-regulated proteins of MR 24000 secreted by the mouse epididymis [published erratum appears in Biol Cell 1990;68(3):270] Jimenez C, et al. **Biol Cell** 1990;68(2):171–4

Interactions of labeled epididymal secretory proteins with spermatozoa after injection of 35S-methionine in the mouse. Cornwall GA, et al. **Biol Reprod** 1990 Jul; 43(1):121–9

Secretion and transport of mouse epididymal proteins after injection of 35S-methionine. Vreeburg JT, et al. **Biol Reprod** 1990 Jul;43(1):113–20

Histoautoradiographic study of rRNA and mRNA transcription activity related to secretory function in lizard epididymis. Faure J, et al. **J Histochem Cytochem** 1990 Apr; 38(4):533–40

Molecular cloning of a cDNA for androgen-regulated proteins secreted by the mouse epididymis. Ghyselinck NB, et al. **J Mol Endocrinol** 1990 Feb;4(1):5–12

Stimulation of protein secretion in the initial segment of the rat epididymis by fluid from the ram rete testis. Sujarit S, et al. **J Reprod Fertil** 1990 Jan;88(1):315–21

SURGERY

The pull-through technique for the advancement of the unfolded epididymal tubule and the tubulo-deferential telescopic reconstruction. Tritto G. **Ann Urol (Paris)** 1989; 23(4):323–5

Microsurgical vaso-epididymostomy in 2 layers. Garibyan H, et al. **Br J Urol** 1990 Jun;65(6):634–7

In vitro fertilization with spermatozoa from alloplastic spermatocele. Müller-Tyl E, et al. **Fertil Steril** 1990 Apr; 53(4):744–6

Microsurgery of epididymis: laboratory background for further clinical trial. Borovikov AM, et al. **Int Urol Nephrol** 1989;21(5):521–31

A modified vasoepididymostomy performed with the sling and blanket technique. Marmar JL, et al. **J Urol** 1990 Feb; 143(2):320–2

[Clinical aspects, follow-up and therapy of benign tumors of the epididymis and para-testicular tissue] Gasser A, et al. **Urologe [A]** 1990 May;29(3):146–7 (Eng. Abstr.) **(Ger)**

[Microsurgery of the appendix testis (experimental research)] Milanov NO, et al. **Urol Nefrol (Mosk)** 1989 Nov–Dec; (6):54–9 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Ultrastructure of paracrine/steroidogenesis in principal cells of the marmoset epididymis. Humar RA, et al. **Arch Androl** 1990;24(2):167–75

Epithelial cells with vacuoles containing 54,000 dalton sialoglycoprotein in the mouse epididymal duct. Toshimori K, et al. **Arch Histol Cytol** 1990 Jul;53(3):333–8

Estrogen receptor in the ductuli efferentes, epididymis, and testis of rhesus and cynomolgus macaques. West NB, et al. **Biol Reprod** 1990 Mar;42(3):533–8

Ultrastructure of epithelial cells in rat's epididymal caput in experimental hyperprolactinemia induced by metoclopramide. Laszczyńska M, et al. **Folia Histochem Cytobiol** 1989;27(4):219–26

Fine structure of the ductuli efferentes of the hamster (Mesocricetus auratus). Vicentini CA, et al. **Gegenbaurs Morphol Jahrb** 1990;136(1):111–8

Ultrastructural and biochemical changes in epididymis and vas deferens of gossypol treated rats. Bhiwgade DA, et al. **Indian J Exp Biol** 1989 Jun;27(6):510–8

Effect of vasectomy on the ultrastructure of epididymal epithelium in rhesus monkey. Kumar BV, et al. **Int J Fertil** 1990 May–Jun;35(3):180–91

[Scanning electron and light microscopic studies of the surface epithelium of the rete testis and epididymis in the boar. II. Ductus epididymis] Wystub T, et al. **DTW Dtsch Tierarztl Wochenschr** 1989 Oct;96(9):452–9 (Eng. Abstr.) **(Ger)**

EPIDIDYMITIS

[Granulomatous epididymitis] Sarinić P. **Med Arh** 1986; 40(1–2):47–9 **(Ser)**

CHEMICALLY INDUCED

Epididymitis caused by treatment with amiodarone. Ibsen HH, et al. **Genitourin Med** 1989 Aug;65(4):257–8

COMPLICATIONS

Venous infarction of the testis secondary to acute epididymitis. Owen ER, et al. **Br J Urol** 1990 Jan; 65(1):107–8

Venous infarction of the testis—a cause of non-response to conservative therapy in epididymo-orchitis. A case report. Rencken RK, et al. **S Afr Med J** 1990 Sep 15;78(6):337–8

[Case report: an unstable bladder with bilateral epididymitis, urge incontinence and unilateral reflux] Saito M, et al. **Hinyokika Kiyo** 1989 May;35(5):891–5 (Eng. Abstr.) **(Jpn)**

[The prevention of pathospermia in patients with orchiepididymitis] Glozman VN, et al. **Vestn Dermatol Venerol** 1990;(2):67–8 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Indications for conservative management of acute scrotal pain in children. Hastie KJ, et al. **Br J Surg** 1990 Mar; 77(3):309–11

Tuberculous epididymo-orchitis: clinical and ultrasound observations. Heaton ND, et al. **Br J Urol** 1989 Sep; 64(3):305–9

Colour Doppler imaging—a new method to differentiate torsion of the spermatic cord and epididymo-orchitis. Deeg KH, et al. **Eur J Pediatr** 1990 Jan;149(4):253–5

Epididymo-orchitis: a retrospective study of 121 patients. Kaver I, et al. **J Fam Pract** 1990 May;30(5):548–52

Color Doppler sonography in acute epididymitis and orchitis. Ralls PW, et al. **JCU** 1990 Jun;18(5):383–6

Subacute scrotal pain: evaluation of torsion versus epididymitis with MR imaging. Trambert MA, et al. **Radiology** 1990 Apr;175(1):53–6

[A case from practice (147). Patient: Mr. S.M. G., born 1921, former telephone clerk] Rinderknecht BP. **Schweiz Rundsch Med Prax** 1989 Sep 12;78(37):1007–8 **(Ger)**

[Response to the contribution, "Chlamydia infections", by U. B. Hoyme] Schieck H, et al. **Zentralbl Gynakol** 1990; 112(9):585–7 **(Ger)**

[Scrotal vasculitis simulating recurrent epididymitis] Vela Navarrete R, et al. **Actas Urol Esp** 1989 Jul–Aug; 13(4):292–4 (9 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Bacterial epididymitis in the rat: a model for assessing the

impact of acute inflammation on epididymal antibiotic penetration. See WA, et al. **J Urol** 1990 Sep;144(3):780–4
[Spectinomycin resistant gonococcal infections in West Germany. Detection in 7 patients and occurrence of post-gonorrheal epididymitis caused by the spectinomycin-resistant PPNG strain] Orfanos CE, et al. **Hautarzt** 1989 Nov;40(11):713–7 (Eng. Abstr.) **(Ger)**
[Clinical study of norfloxacin in the treatment of acute epididymitis] Arakawa S, et al. **Hinyokika Kiyo** 1989 Jun; 35(6):1089–95 (Eng. Abstr.) **(Jpn)**
[Puncture scrotostomy—a treatment method in acute inflammatory diseases of the scrotal organs] Shapoval VI, et al. **Klin Khir** 1989;(12):35–6 (Eng. Abstr.) **(Rus)**
[Restoration of fertility after conservative treatment of tuberculous epididymitis] Stepanov PI. **Klin Khir** 1989; (12):49–50 **(Rus)**
[Improvement in treatment of patients with gonorrheal epididymo-orchitis] Glozman VN, et al. **Vestn Dermatol Venerol** 1989;(10):58–60 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Epididymitis associated with müllerian duct cyst and calculus: sonographic diagnosis. Ardill RH, et al. **AJR Am J Roentgenol** 1990 Jul;155(1):91–2
Tuberculous epididymo-orchitis following intravesical BCG. George VK, et al. **Br J Urol** 1990 Jul;66(1):101–2
Is micturition disorder a pathogenic factor in acute epididymitis? An evaluation of simultaneous bladder pressure and urine flow in men with previous acute epididymitis. Thind P, et al. **J Urol** 1990 Feb;143(2):323–5
Tuberculous epididymitis: a case report. Bergman J, et al. **N Z Med J** 1989 Oct 25;102(878):552
Experimental chlamydial epididymitis. Jantos C, et al. **Urol Int** 1989;44(5):279–83
[Acute epididymitis in children] Merlini E, et al. **Pediatr Med Chir** 1990 Jan–Feb;12(1):85–6 (Eng. Abstr.) **(Ita)**

IMMUNOLOGY

[Antibody response to P-fimbriae of Escherichia coli in patients with genitourinary infections] Kanai S, et al. **Hinyokika Kiyo** 1990 Jan;36(1):1–6 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Acute epididymo-orchitis caused by Pseudomonas aeruginosa and treated with ciprofloxacin. Humphreys H, et al. **J Infect** 1989 Nov;19(3):257–61

NURSING

Epididymitis in the young adult male. Kaler SR. **Nurse Pract** 1990 May;15(5):10–6

PATHOLOGY

Macrophages in semen are indicative of chronic epididymal infection. Haidl G. **Arch Androl** 1990;25(1):5–11
Inflammatory changes in the epididymis after vasectomy in the Lewis rat. Flickinger CJ, et al. **Biol Reprod** 1990 Jul; 43(1):34–45

PHYSIOPATHOLOGY

[Functional indices of the hypophysis, gonads and adrenal cortex during the treatment of patients with gonorrheal inflammation of the scrotal organs using proteolytic enzymes] Barabanov LG. **Vestn Dermatol Venerol** 1989; (8):46–8 (Eng. Abstr.) **(Rus)**

SURGERY

Role of surgery in management of acute bacterial epididymitis. Vordermark JS, et al. **Urology** 1990 Apr; 35(4):283–7 (43 ref.)
[Hematogenous generalization of tuberculosis caused by surgical intervention in tuberculous epididymitis and orchio-epididymitis] Shmelev EN, et al. **Probl Tuberk** 1990; (2):70–2 **(Rus)**

THERAPY

Testport: new type of scrotal support. Sachse HE, et al. **Urology** 1990 Jul;36(1):89–90

VETERINARY

Brucella ovis excretion in semen of seronegative, clinically normal breeding rams. Bulgin MS. **J Am Vet Med Assoc** 1990 Jan 15;196(2):313–5
Brucella ovis epizootic in virgin ram lambs. Bulgin MS. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1120–2
Methods for control of lamb epididymitis in large purebred flocks. Bulgin MS, et al. **J Am Vet Med Assoc** 1990 Apr 1;196(7):1110–5

4'-EPIDOXORUBICIN see **EPIRUBICIN**

EPIDURAL ANALGESIA see **ANALGESIA, EPIDURAL**

EPIDURAL ANESTHESIA see **ANESTHESIA, EPIDURAL**

EPIDURAL INJECTIONS see **INJECTIONS, EPIDURAL**

EPIDURAL NEOPLASMS

Image interpretation session. Large cell lymphoma. **Radiographics** 1990 Jan;10(1):138–40

COMPLICATIONS

Spinal epidural compression in chronic lymphocytic leukemia. Michalevicz R, et al. **Cancer** 1989 Nov 1; 64(9):1961–4
Extramedullary disease initially without bone marrow involvement in acute promyelocytic leukaemia [letter] Zuiable A, et al. **Clin Lab Haematol** 1989;11(3):288–9
Epidural spinal cord compression as the presenting manifestation of tumor of unknown origin. Doll DC, et al. **Med Pediatr Oncol** 1990;18(4):280–2
[Spinal cord compression by primary epidural non-Hodgkin lymphoma] Homma S, et al. **Rinsho Ketsueki** 1989 Jun; 30(6):840–4 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Magnetic resonance imaging of malignant extradural tumors with acute spinal cord compression. Lien HH, et al. **Acta Radiol** 1990 Mar;31(2):187–90
[Primary malignant lymphoma of the spinal epidural space] Nikonov AV, et al. **Zh Vopr Neirokhir** 1989 Jul–Aug;(4):57 **(Rus)**

PATHOLOGY

[A case of the primary mediastinal seminoma invading into the extradural space of the thoracic spine] Umehara F, et al. **Rinsho Shinkeigaku** 1990 Mar;30(3):304–7 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Identification of epidural neoplasm. Radiography and bone scintigraphy in the symptomatic and asymptomatic spine. Portenoy RK, et al. **Cancer** 1989 Dec 1;64(11):2207–13
Early diagnosis of spinal epidural metastases using out-patient computed tomographic myelography. Grossman SA, et al. **Eur J Cancer** 1990 Apr;26(4):495–9
CT of epidural lipomatosis: a case report. Sundram SR. **Radiogr Today** 1990 Jan;56(632):26–8

SECONDARY

Metastatic epidural spinal cord compression. Results of treatment and survival. Sørensen S, et al. **Cancer** 1990 Apr 1;65(7):1502–8
Diagnosis and treatment of epidural metastases. Grossman SA, et al. **Oncology (Williston Park)** 1990 Apr;4(4):47–54; discussion 55, 58 (63 ref.)
Magnetic resonance imaging of spinal metastases. Jahre C, et al. **Top Magn Reson Imaging** 1988 Dec;1(1):63–70 (17 ref.)
[Bony metastases of a bronchial carcinoid tumor. A new form revealed by dorsal epidural inflammation] Bruno MC, et al. **Rev Rhum Mal Osteoartic** 1989 Jul–Sep;56(8–9):593–5 **(Fre)**

SURGERY

[Malignant lymphoma of the spinal epidural space. Report of three cases] Iizuka H, et al. **Neurol Med Chir (Tokyo)** 1989 Apr;29(4):307–11 (Eng. Abstr.) **(Jpn)**
[Spinal epidural cavernous hemangioma. Case report] Kurose K, et al. **Neurol Med Chir (Tokyo)** 1989 Jun;29(6):538–42 (22 ref.) (Eng. Abstr.) **(Jpn)**

EPIDURAL SPACE see under **SPINAL CANAL**

EPIGLOTTIS

Early supraglottic cancer. DeSanto LW. **Ann Otol Rhinol Laryngol** 1990 Aug;99(8):593–7
Asphyxia due to a sialocyst [letter] Melcher MP. **Arch Otolaryngol Head Neck Surg** 1989 Oct;115(10):1254
Acquired factor VIII inhibitor with squamous cell cancer of the epiglottis. Shastri KA, et al. **Arch Otolaryngol Head Neck Surg** 1990 Mar;116(3):350–3
[Cellular immunity in 3 siblings with cancers of the upper aerodigestive tract] Kürten C. **Laryngorhinootologie** 1990 Jan;69(1):21–3 (Eng. Abstr.) **(Ger)**
[Modification of the horizontal resection of the larynx with preservation of the free part of the epiglottis] Bitiutskil PG, et al. **Vestn Otorinolaringol** 1990 Jan–Feb;(1):81–3 **(Rus)**
[Multiple carcinoma of the upper aerodigestive tract of metachronic onset] Menoyo A, et al. **Acta Otorrinolaringol Esp** 1989 Jul–Aug;40(4):293–6 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Diverticulum of the valleculae. Zalzal GH, et al. **Otolaryngol Head Neck Surg** 1990 Jan;102(1):92–3
[Retrograde intubation in a patient with an epiglottic abnormality (letter)] Monsalve Maestro C, et al. **Rev Esp Anestesiol Reanim** 1989 Jul–Aug;36(4):242 **(Spa)**

DRUG EFFECTS

Epiglottic dysfunction after isocyanate inhalation exposure. Sales JH, et al. **Arch Otolaryngol Head Neck Surg** 1990 Jun;116(6):725–7

PATHOLOGY

The preepiglottic space revisited: is it significant? Gregor RT. **Am J Otolaryngol** 1990 May–Jun;11(3):161–4
Acquired airway obstruction from histologically normal, abnormally mobile supraglottic soft tissues. Kletzker GR, et al. **Laryngoscope** 1990 Apr;100(4):375–9
[A large epidermoid cyst of the epiglottis] Bobrov VM, et al. **Vestn Otorinolaringol** 1990 Mar–Apr;(2):62–3 **(Rus)**

RADIOGRAPHY

Radiologic diagnosis of epiglottitis: objective criteria for all ages. Rothrock SG, et al. **Ann Emerg Med** 1990 Sep; 19(9):978–82

SURGERY

Aryepiglottic fold excision for the treatment of severe laryngomalacia. Polonovski JM, et al. **Ann Otol Rhinol Laryngol** 1990 Aug;99(8):625–7
Near-total laryngectomy with epiglottic reconstruction. Long-term results. Tucker HM, et al. **Arch Otolaryngol Head Neck Surg** 1989 Nov; 115(11):1341–4
Transendoscopic contact neodymium:yttrium aluminum garnet laser correction of epiglottic entrapment in standing horses. Tulleners EP. **J Am Vet Med Assoc** 1990 Jun 15; 196(12):1971–80
The "second" side of the neck in supraglottic cancer. DeSanto LW, et al. **Otolaryngol Head Neck Surg** 1990 Apr; 102(4):351–61
Epiglottic augmentation in the horse. Tulleners E, et al. **Vet Surg** 1990 May–Jun;19(3):181–90

EPIGLOTTITIS see under **LARYNGITIS**

EPILATION see **HAIR REMOVAL**

EPILEPSY

see related
KINDLING (NEUROLOGY)

Proceedings of the Northern European Epilepsy Symposium. Aalborg, Denmark, September 5–8, 1990. Abstracts. **Acta Neurol Scand Suppl** 1990;133:1–59
AES proceedings. Annual meeting of the American Epilepsy Society. Boston, Massachusetts, December 3–6, 1989. Abstracts. **Epilepsia** 1989 Sep–Oct;30(5):636–739
Teaching medical students about epilepsy. Mason C, et al. **Epilepsia** 1990 Jan–Feb;31(1):95–100
Proceedings for the 22nd annual meeting of the Japan Epilepsy Society and the Japanese Branch of the International League against Epilepsy. October 7–8, 1988, Kanazawa. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):319–574
Epidemiology, classification, natural history, and genetics of epilepsy. Shorvon SD. **Lancet** 1990 Jul 14;336(8707):93–6 (26 ref.)
Reliability of seizure diaries in adult epileptic patients. Neugebauer R. **Neuroepidemiology** 1989;8(5):228–33
Recommendations regarding driving after a single seizure [editorial] Fritz VU. **S Afr Med J** 1990 May 19;77(10):493–4
[Neuropeptides and seizures] Wu X. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):374–7 (35 ref.) **(Chi)**
[Relation of circulating immunocomplexes and epileptic discharges in the electroencephalograms (EEG) of epileptic patients] Yang J. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Jun; 23(3):178–81, 192 (Eng. Abstr.) **(Chi)**
[Women and epilepsy] Bočan P, et al. **Cesk Neurol Neurochir** 1990 Mar;53(2):130–2 **(Cze)**
[Disorders of speech and hearing in the Landau-Kleffner syndrome] Dlouhá O, et al. **Cesk Otolaryngol** 1990 Apr; 39(2):114–20 (Eng. Abstr.) **(Cze)**
[Epilepsy] Servit Z, et al. **Zdrav Aktual** 1983;204:181–5 **(Cze)**
[Neural seizure disorders in children] Svatý J. **Zdrav Aktual** 1985;205:84–94 **(Cze)**
[Epilepsy] **Seishin Shinkeigaku Zasshi** 1989;91(12):1108–11 **(Jpn)**
[Epilepsy, pregnancy and dysmorphogenesis] Gavranović M, et al. **Med Arh** 1986;40(5):199–203 (Eng. Abstr.) **(Scr)**

BLOOD

Serum hormones in male epileptic patients receiving anticonvulsant medication. Isojärvi I, et al. **Arch Neurol** 1990 Jun;47(6):670–6
Thyroid function in epileptic patients treated with carbamazepine. Isojärvi JI, et al. **Arch Neurol** 1989 Nov; 46(11):1175–8
Effect of acute and chronic terfenadine on free and total serum phenytoin concentrations in epileptic patients. Coniglio AA, et al. **Epilepsia** 1989 Sep–Oct;30(5):611–6
Serum steroid hormones and pituitary function in female epileptic patients during carbamazepine therapy. Isojärvi JI. **Epilepsia** 1990 Jul–Aug;31(4):438–45
Simultaneous determination of progabide and its acid metabolite by reversed-phase high-performance liquid chromatography. Decourt JP, et al. **J Chromatogr** 1990

Apr 27;527(1):214–9

Monitoring of phenytoin in epileptic children: value of the single morning sample. Naglo AS, et al. **J Neurol** 1990 Jun;237(3):186–90

What matters in the follow–up of patients with epilepsy? Pitts J, et al. **Practitioner** 1989 Mar 8;233(1464):293–4

Predicting the range of plasma carbamazepine concentrations in patients with epilepsy. Racine–Poon A, et al. **Stat Med** 1989 Nov;8(11):1327–37

Fluctuations of unbound and total phenytoin concentrations during the day in epileptic patients on valproic acid comedication. May T, et al. **Ther Drug Monit** 1990 Mar; 12(2):124–8

Dosing accuracy of antiepileptic drug regimens as determined by serum concentrations in outpatient epilepsy clinic patients. Privitera MD. **Ther Drug Monit** 1989 Nov; 11(6):647–51

Carbamazepine metabolism in humans: effect of concurrent anticonvulsant therapy. Ramsay RE, et al. **Ther Drug Monit** 1990 May;12(3):235–41

[The status of plasma level determination of anticonvulsants] Krämer G. **Fortschr Neurol Psychiatr** 1989 Oct; 57(10):411–24 (114 ref.) (Eng. Abstr.) **(Ger)**

[Incidence of pathologic ammonia concentrations in the plasma in children with seizure disorders treated with Convulsofin/Convulex and other anticonvulsants in comparison with children with brain damage and healthy children] Wiedemann G, et al. **Kinderarztl Prax** 1990 Jan; 58(1):21–7 (Eng. Abstr.) **(Ger)**

[The HDL cholesterol level in patients treated with antiepileptic drugs] Niedzielska K, et al. **Neurol Neurochir Pol** 1989 May–Jun;23(3):193–7 (Eng. Abstr.) **(Pol)**

[Determination of antiepileptic serum levels in patients with mono– and polytherapy in correlation with the clinical picture of the disease] Subakov M, et al. **Med Arh** 1985; 39(5):197–201 (Eng. Abstr.) **(Scr)**

CEREBROSPINAL FLUID

Amino acid disturbances in the neuronal environment—cause or consequence in human epilepsy. Hamberger A, et al. **Acta Neurol Belg** 1990;90(1):5–10

Analysis of monamine metabolism in cerebrospinal fluid in childhood epilepsies. Kimiya S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):498–9

[Effect of the cerebrospinal fluid from patients with cerebral pathology on regional cerebral blood flow in experimental animals] Malorova NF, et al. **Zh Nevropatol Psikhiatr** 1989; 89(7):105–9 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Structure–epileptogenicity relationship of quinolones with special reference to their interaction with gamma–aminobutyric acid receptor sites. Akahane K, et al. **Antimicrob Agents Chemother** 1989 Oct;33(10):1704–8

Electroshock– and pentylenetetrazol–induced seizures in genetically epilepsy–prone rats (GEPRs): differences in threshold and pattern. Browning RA, et al. **Epilepsy Res** 1990 May–Jun;6(1):1–11

An analysis of anticonvulsant actions of GABA agonists (progabide and baclofen) in the kindling model of epilepsy. Sato K, et al. **Epilepsy Res** 1990 Mar;5(2):117–24

Experimental spike–and–wave discharges induced by pentylenetetrazol and tolerance to repeated injections: an electrophysiological and biochemical study. Sierra–Paredes G, et al. **Epilepsy Res** 1989 Sep–Oct;4(2):139–46

Diazepam and Ro 15–1788 increase absence epilepsy in WAG/Rij rats chronically exposed to diazepam. Peeters BW, et al. **Eur J Pharmacol** 1990 Mar 13;178(1):111–4

Calcium–dependent potassium current following penicillin–induced epileptiform discharges in the hippocampal slice. Domann R, et al. **Exp Brain Res** 1989; 78(3):646–8

Pentylenetetrazol (PTZ)–kindling development in intact and subcortical structure lesioned rats. Bandyopadhyay A. **Indian J Exp Biol** 1989 Sep;27(9):829–30

The epileptogenic action of the taurine analogue guanidinoethane sulfonate may be caused by a blockade of GABA receptors. Herranz AS, et al. **J Neurosci Res** 1990 May;26(1):98–104

Seizure induction by alcohol in patients with epilepsy [letter] Rose GA. **J R Soc Med** 1990 Jun;83(6):414

Baclofen–induced epilepsy. Rush JM, et al. **J R Soc Med** 1990 Feb;83(2):115–6

Cardiazol–induced seizures and the concentration of lipid peroxides in the brain of rats under the influence of valproic acid and vitamin E. Sobaniec W, et al. **Neuropatol Pol** 1989; 27(2):229–36

Evidence for an epileptogenic action of 1–methyl–4–phenyl–1,2,3,6,–tetrahydropyridine. Bonuccelli U, et al. **Neuropharmacology** 1989 Dec; 28(12):1419–22

Lesions of the deep prepiriform cortex ('area tempestas') in rats do not affect the convulsant action of systemically administered bicuculline. Wahnschaffe U, et al. **Neurosci Lett** 1990 Jan 1;108(1–2):161–6

[Coriaria lactone–induced epileptiform activity in the hippocampal slices of rat] Guo L, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1990 Mar;21(1):50–3 (Eng. Abstr.) **(Chi)**

[Seizures and opistotonus after propofol anesthesia. A possible connection] Bredahl C. **Ugeskr Laeger** 1990 Mar 12;152(11):748–9 (Eng. Abstr.) **(Dan)**

[Neurologic complications of cocaine abuse] Van Viet H, et al. **Presse Med** 1990 Jun 2;19(22):1045–9 (51 ref.) (Eng. Abstr.) **(Fre)**

CLASSIFICATION

The localization–related epilepsies: some problems with subclassification. Watanabe K. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):471–5 (9 ref.)

Epileptic seizures and syndromes. Gram L. **Lancet** 1990 Jul 21;336(8708):161–3 (9 ref.)

Childhood epileptic syndromes. Wallace SJ. **Lancet** 1990 Aug 25;336(8713):486–8 (22 ref.)

[The proposed classification of epilepsies and epileptic syndromes (1989) and its clinical significance] Seino M. **No To Hattatsu** 1990 Mar;22(2):115–20 (Eng. Abstr.) **(Jpn)**

[Problem of classification of convulsions in newborn infants and young children] Tychina VP. **Pediatriia** 1990;(2):78–82 **(Rus)**

COMPLICATIONS

A case of normotensive primary aldosteronism with hypopituitarism, epilepsy, and medullary sponge kidney. Kuroda T, et al. **Acta Endocrinol (Copenh)** 1989 Dec; 121(6):797–801

Developmental retardation in children with refractory epilepsy. Kurokawa T, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Jun;31(3):273–7

Acquired epileptic aphasia: report of a case. Yeh GS, et al. **Acta Paediatr Sin** 1988 Sep–Oct;29(5):331–4

Diagnostic criteria for epilepsy–related mental changes [letter] Blumer D, et al. **Am J Psychiatry** 1990 May; 147(5):676–7

Epileptic nystagmus. Furman JM, et al. **Ann Neurol** 1990 Jun;27(6):686–8

A prospective study of the predictive value of electroencephalographic abnormalities for epileptic loss of consciousness. Collins S, et al. **Clin Exp Neurol** 1988; 25:103–8

Acquired aphasia of childhood with epilepsy: the Landau–Kleffner syndrome. Hankey GJ, et al. **Clin Exp Neurol** 1987;24:187–94

Idiopathic familial gingival fibromatosis associated with mental retardation, epilepsy and hypertrichosis. Anavi Y, et al. **Dev Med Child Neurol** 1989 Aug;31(4):538–42

On–line detection of transient neuropsychological disturbances during EEG discharges in children with epilepsy. Kasteleijn–Nolst Trenité DG, et al. **Dev Med Child Neurol** 1990 Jan;32(1):46–50

Toxocara infection and epilepsy in children: a case–control study. Arpino C, et al. **Epilepsia** 1990 Jan–Feb;31(1):33–6

Epilepsy with typical absence seizures with onset during the first year of life. Cavazzuti GB, et al. **Epilepsia** 1989 Nov–Dec;30(6):802–6

Reflex seizures are frequent in patients with Down syndrome and epilepsy. Guerrini R, et al. **Epilepsia** 1990 Jul–Aug; 31(4):406–17

A transient retardation of early postnatal growth in drug–exposed children of epileptic mothers. Gaily E, et al. **Epilepsy Res** 1989 Sep–Oct;4(2):147–55

Epileptic transient amnesia. Stracciari A, et al. **Eur Neurol** 1990;30(3):176–9

Audiogenic seizure severity and hearing deficits in the genetically epilepsy–prone rat. Faingold CL, et al. **Exp Neurol** 1990 Apr;108(1):55–60

Lennox–Gastaut syndrome in association with tuberous sclerosis [letter] Gupta AK, et al. **Indian Pediatr** 1989 Nov; 26(11):1164–5

Migraine/epilepsy syndrome mimicking shunt malfunction in a child with shunted hydrocephalus [letter] Buchhalter JR, et al. **J Child Neurol** 1990 Jan;5(1):69–71

The pattern of childhood epilepsy with mental retardation in Nigeria. Iloeje SO, et al. **J Trop Pediatr** 1989 Aug; 35(4):163–8

Sudden death and epilepsy [letter] Brown SW, et al. **Lancet** 1990 Mar 10;335(8689):606–7

Drivers with epilepsy [letter] Rogin JB. **Minn Med** 1990 Mar; 73(3):13

Speech automatisms [letter] Arlt G, et al. **Neurology** 1990 Aug;40(8):1320

Vertical and horizontal epileptic gaze deviation and nystagmus. Kaplan PW, et al. **Neurology** 1989 Oct; 39(10):1391–3

Epilepsy in children with attention deficit disorder: cognitive, behavioral, and neuroanatomic indices. Kinney RO, et al. **Pediatr Neurol** 1990 Jan–Feb;6(1):31–7

Hyposexuality and epilepsy: a community survey of hormonal and behavioural changes in male epileptics. Toone BK, et al. **Psychol Med** 1989 Nov;19(4):937–43

Acquired childhood aphasia with convulsive disorder (Landau–Kleffner syndrome). A case report. Penn C, et al. **S Afr Med J** 1990 Feb 3;77(3):158–61

[A clinical analysis of burn injuries in 12 epileptic patients] Dong YL. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1987 Jun;3(2):134–5 **(Chi)**

[Epilepsy–acquired aphasia syndrome with psychosis. Report of a case] Zivi A, et al. **Ann Pediatr (Paris)** 1990 Jun; 37(6):391–4 (Eng. Abstr.) **(Fre)**

[Recurrent frontal syndrome and epilepsy (letter)] Billette de Villemeur T, et al. **Arch Fr Pediatr** 1990 Mar;47(3):227 **(Fre)**

[Dysphagia, speech disorders and centrotemporal spikes–waves] Boulloche J, et al. **Arch Fr Pediatr** 1990 Feb; 47(2):115–7 (Eng. Abstr.) **(Fre)**

[Epilepsy and bilateral occipital calcifications: 3 cases] Giroud M, et al. **Rev Neurol (Paris)** 1990;146(4):288–92 (22 ref.) (Eng. Abstr.) **(Fre)**

[Epilepsy and degenerative diseases in children: diagnostic and genetic problems] Bouguerra L, et al. **Tunis Med** 1990 Apr;68(4):305–8 (Eng. Abstr.) **(Fre)**

[Epileptic impaired consciousness in adults] Karbowski K. **Schweiz Rundsch Med Prax** 1989 Jul 18;78(29–30):802–7 (39 ref.) (Eng. Abstr.) **(Ger)**

[Mental retardation and epilepsy] Maehle I, et al. **Tidsskr Nor Laegeforen** 1990 May 20;110(13):1663–6 (Eng. Abstr.) **(Nor)**

[The Landau–Kleffner syndrome] Michałowicz R, et al. **Wiad Lek** 1989 Feb 15;42(4):256–9 (Eng. Abstr.) **(Pol)**

[Hypoglycemia and epilepsy syndrome in diabetes mellitus in children] Skripkina VM, et al. **Pediatriia** 1990;(6):15–8 (Eng. Abstr.) **(Rus)**

[Congenital myopathy associated with cutis laxa] Martín R, et al. **Arch Neurobiol (Madr)** 1989 Nov–Dec;52(6):273–6 (Eng. Abstr.) **(Spa)**

[Parkinsonism and epilepsy (letter)] Oliveras Ley C, et al. **Neurologia** 1986 Mar–Apr;1(2):89 **(Spa)**

[Post–seizure pulmonary edema (letter)] Rosich A, et al. **Neurologia** 1989 Mar;4(2):72–3 **(Spa)**

DIAGNOSIS

Epileptic seizures in elderly people: aetiology and seizure type. Sung CY, et al. **Age Ageing** 1990 Jan;19(1):25–30

Induction of thiopental anesthesia without tracheal intubation in a patient with hiatal hernia: use of esophageal pH monitoring. Kofke WA, et al. **Anesthesiology** 1990 May; 72(5):950–1

Idiopathic hypoparathyroidism and paroxysmal kinesigenic choreoathetosis [letter; comment] Micheli F, et al. **Ann Neurol** 1989 Sep;26(3):415 Comment on: Ann Neurol 1988 Oct;24(4):585.

Estimating the importance of epileptiform abnormalities discovered on cassette electroencephalographic monitoring. Bridgers SL, et al. **Arch Neurol** 1989 Oct; 46(10):1077–9

Brain mapping. Hachinski V. **Arch Neurol** 1989 Oct; 46(10):1136

Efficacy of a 1– to 3–day ambulatory electroencephalogram in recording epileptic seizures. Tuunainen A, et al. **Arch Neurol** 1990 Jul;47(7):799–800

Intensive neurodiagnostic monitoring in psychiatry. Sachdev PS. **Aust N Z J Psychiatry** 1990 Jun;24(2):227–37 (93 ref.)

"It isn't epilepsy is it, doctor?" Brett EM. **BMJ** 1990 Jun 23;300(6740):1604–6 (22 ref.)

A study of epileptic psychosis using magnetic resonance imaging. Conlon P, et al. **Br J Psychiatry** 1990 Feb; 156:231–5

Computed EEG topography (CET) and childhood epilepsy: two years experience. De Negri M, et al. **Brain Dev** 1990; 12(2):253–6

Recommended guidelines for diagnosis and treatment in specialized epilepsy centers. **Epilepsia** 1990;31 Suppl 1:S1–12

Epileptic seizures following ischaemic cerebral infarction. Clinical picture, CT findings and prognosis. Hornig CR, et al. **Eur Arch Psychiatry Neurol Sci** 1990;239(6):379–83

Imaging of epileptic lesions in adults. The three–dimensional approach. Fredy D. **J Neuroradiol** 1989 Dec;16(4):265–72 **(Eng, Fre)**

Pseudoseizures: seizures that are not epilepsy. Betts T. **Lancet** 1990 Jul 21;336(8708):163–4

Diagnosis of epilepsy. Chadwick D. **Lancet** 1990 Aug 4; 336(8710):291–5 (17 ref.)

Expert system approach to detection of epileptiform activity in the EEG. Davey BL, et al. **Med Biol Eng Comput** 1989 Jul;27(4):365–70

Episodic symptoms mistaken for seizures in the neurologically impaired child [see comments] Donat JF, et al. **Neurology** 1990 Jan;40(1):156–7 Comment in: Neurology 1990 Jun;40(6):1011. Comment in: Neurology 1990 Jul;40(7):1146.

Supplementary motor seizures mimicking pseudoseizures: some clinical differences. Kanner AM, et al. **Neurology** 1990 Sep;40(9):1404–7

Pseudoseizures in impaired children [letter; comment] Neill JC. **Neurology** 1990 Jul;40(7):1146 Comment on: Neurology 1990 Jan;40(1):156–7.

Episodic symptoms in children [letter; comment] Woody RC. **Neurology** 1990 Jun;40(6):1011 Comment on: Neurology 1990 Jan;40(1):156–7.

Combined use of subdural and intracerebral electrodes in preoperative evaluation of epilepsy. van Veelen CW, et al. **Neurosurgery** 1990 Jan;26(1):93–101

Ambulatory cassette EEG in epilepsy evaluation. Drake ME Jr, et al. **Ohio Med** 1989 Oct;85(10):815–7

The diagnosis of epilepsy. Galvin R. **Practitioner** 1989 Aug 8;233(1473):1075–8

Brain electrical activity mapping: clinical applications. Duffy FH. **Psychiatry Res** 1989 Sep;29(3):379–84

Pseudoseizures [editorial; comment] Hopkins A. **Q J Med** 1989 Jun;71(266):473–5 Comment on: Q J Med 1989

Jun;71(266):507–19.
The EEG and epilepsy [editorial] Tan CB. **Singapore Med J** 1989 Oct;30(5):424–5
[Clinical analysis of 47 cases of epilepsy] Li Y. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Aug; 22(4):237–9, 254–5 (Eng. Abstr.) **(Chi)**
[Correlation of SPECT, EEG and CT in patients with epilepsy. A preliminary report] Qu Z. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):341–3, 382 (Eng. Abstr.) **(Chi)**
[The Romano–Ward syndrome imitating epilepsy in a 10–year–old boy] Balatka J, et al. **Cesk Pediatr** 1989 Dec; 44(12):719–20 **(Cze)**
[Contribution of EEG to the diagnosis of epilepsy in Shanghai] Chen J, et al. **Neurophysiol Clin** 1989 Aug; 19(4):291–6 (Eng. Abstr.) **(Fre)**
[Simulated epileptiform discharges during the replay of a lengthy EEG recording] Bassetti C, et al. **EEG EMG** 1990 Mar;21(1):42–4 (Eng. Abstr.) **(Ger)**
[Landau–Kleffner syndrome] Elliger TJ, et al. **Fortschr Neurol Psychiatr** 1990 Apr;58(4):125–36 (143 ref.) (Eng. Abstr.) **(Ger)**
[Ambulatory long–term EEG monitors] John K, et al. **Kinderarztl Prax** 1990 Jun;58(6):281–7 (Eng. Abstr.) **(Ger)**
[Special application of EEG and evoked potential studies for practice of childhood epilepsy] Iinuma K, et al. **No To Hattatsu** 1990 Mar;22(2):126–32 (Eng. Abstr.) **(Jpn)**
[An analysis of ictal EEGs by a newly developed ambulatory cassette EEG system] Kohsaka S, et al. **No To Hattatsu** 1990 Jan;22(1):30–7 (Eng. Abstr.) **(Jpn)**
[The new cassette EEG recording system: its application to epileptic children] Kohsaka S. **No To Hattatsu** 1990 Mar; 22(2):133–5 (Eng. Abstr.) **(Jpn)**
[Epilepsy in severely handicapped children] Matsumoto A. **No To Hattatsu** 1990 Mar;22(2):149–53 (Eng. Abstr.) **(Jpn)**
[Studies of the mechanisms of spreading of epileptic discharges in the central nervous system] Trąbka W. **Folia Med Cracov** 1989;30(3–4):135–46 (26 ref.) (Eng. Abstr.) **(Pol)**
[Effect of diazepam on visual potentials evoked by reversible checkerboard pattern] Kowalski JW, et al. **Neurol Neurochir Pol** 1989 Jul–Dec;23(4–6):311–6 (Eng. Abstr.) **(Pol)**
[Computerized tomography of the head in patients with epilepsy] Pakszys W, et al. **Pol Tyg Lek** 1989 Jan 30; 44(5):124–7 (Eng. Abstr.) **(Pol)**
[Errors in the differential diagnosis of different types of nonepileptic paroxysms in the initial period of their occurrence] Miakotnykh VS. **Zh Nevropatol Psikhiatr** 1990; 90(5):13–8 (Eng. Abstr.) **(Rus)**
[Possibilities of the diagnosis and the evaluation of epilepsy risk based on the data of EEG spectrum analysis in children and adolescents] Zenkov LR, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):20–2 (Eng. Abstr.) **(Rus)**
[The importance of beginning antiepileptic therapy and aspects for its prognosis] Gavranović M, et al. **Med Arh** 1989;43(1):59–62 (Eng. Abstr.) **(Scr)**
[The importance of anamnesis in the diagnosis of epilepsy] Matijaš B, et al. **Vojnosanit Pregl** 1989 Sep–Oct;46(5):370–1 **(Scr)**
[Criteria for the diagnosis of epilepsy caused by cerebral cysticercosis in a population of recruits] Umićević P, et al. **Vojnosanit Pregl** 1989 Nov–Dec;46(6):420–7 (Eng. Abstr.) **(Scr)**
[The EEG, CAT and alcoholism] Conde López V, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1990 Jan–Feb;18(1):7–25 (54 ref.) (Eng. Abstr.) **(Spa)**

DIET THERAPY

Restricted diets for treatment of migraine [letter] Van Someren V, et al. **J Pediatr** 1990 Sep;117(3):509–10
[Ketogenic diet—an update] Gross–Tsur V, et al. **Harefuah** 1989 Dec 15;117(12):448–9 (19 ref.) **(Heb)**

DRUG THERAPY

Allopurinol add–on treatment in intractable seizures. Marrosu F, et al. **Acta Neurol (Napoli)** 1990 Jun;12(3):207–13
Epidemiology of adverse reactions to carbamazepine as seen in a spontaneous reporting system. Askmark H, et al. **Acta Neurol Scand** 1990 Feb;81(2):131–40
Therapeutic intervention in mentally retarded adult epileptics. Sivenius J, et al. **Acta Neurol Scand** 1990 Feb; 81(2):165–7
Carbamazapine for behavioral disorders [comment] Laminack L. **Am J Ment Retard** 1990 Mar;94(5):563–4 Comment on: Am J Ment Retard 1989 May;93(6):640–3.
Treatment of epilepsy in people with multiple handicap. Foley H. **Arch Dis Child** 1990 Apr;65(4):453–6
Rapid anticonvulsant monitoring in an epilepsy clinic. Houtman PN, et al. **Arch Dis Child** 1990 Mar;65(3):264–8
Carbamazepine–10,11–epoxide in epilepsy. A pilot study. Tomson T, et al. **Arch Neurol** 1990 Aug;47(8):888–92
Epilepsy in women of childbearing age [letter; comment] **BMJ** 1989 Oct 14;299(6705):976–7 Comment on: BMJ 1989 Sep 2;299(6699):581.
Epilepsy in women of childbearing age [letter; comment] Chadwick D. **BMJ** 1989 Nov 4;299(6708):1163–4 Comment on: BMJ 1989 Sep 2;299(6699):581.
Vigabatrin. Reynolds EH. **BMJ** 1990 Feb 3;300(6720):277–8 (27 ref.)
Epilepsy in women of childbearing age [see comments] Saunders M. **BMJ** 1989 Sep 2;299(6699):581 (17 ref.) Comment in: BMJ 1989 Oct 14;299(6705):976–7. Comment in: BMJ 1989 Nov 4;299(6708):1163–4.
Modelling medical decision–making under uncertainty. Boreham NC. **Br J Educ Psychol** 1989 Jun;59 (Pt 2):187–99
Clinical and therapeutic monitoring of epilepsy in a mental handicap unit. Collacott RA, et al. **Br J Psychiatry** 1989 Oct;155:522–5
Anticonvulsant effects of zonisamide and phenytoin on seizure activity of the feline visual cortex. Wada Y, et al. **Brain Dev** 1990;12(2):206–10
The effect of valproic acid on sister chromatid exchange aberration frequency in epileptic children. Hu LJ, et al. **Chin Med J [Engl]** 1990 May;103(5):415–7
Event–related potentials and cognitive functions in epileptic treated patients. van Rijckevorsel–Harmant K, et al. **Clin Electroencephalogr** 1990 Apr;21(2):67–73
Neurologists' use and interpretation of antiepileptic drug monitoring in the treatment of epilepsy. Beran RG, et al. **Clin Exp Neurol** 1988;25:121–5
Further clinical and pharmacokinetic observations on the new anticonvulsant, oxcarbazepine. Dickinson RG, et al. **Clin Exp Neurol** 1988;25:127–33
Oxcarbazepine: preliminary clinical and pharmacokinetic studies on a new anticonvulsant. Hooper WD, et al. **Clin Exp Neurol** 1987;24:105–12
Changes in clearance of sodium valproate with changes in dose. Kilpatrick CJ, et al. **Clin Exp Neurol** 1987;24:97–103
Convulsive disorders: the use of anticonvulsant drugs. Bleck TP. **Clin Neuropharmacol** 1990 Jun;13(3):198–209 (12 ref.)
Valproate: an update—the challenge of modern pediatric seizure management. Clancy RR. **Curr Probl Pediatr** 1990 Apr;20(4):161–233 (194 ref.)
Vitamin E status in pediatric patients receiving antiepileptic drugs. Kataoka K, et al. **Dev Pharmacol Ther** 1989; 14(2):96–101
Therapeutic drug monitoring (TDM): an aid to anti–epileptic drug (AED) therapy in Zimbabwe: a review. Nhachi CF, et al. **East Afr Med J** 1990 May;67(5):311–8
Workshop on clinical evaluation of antiepileptic drugs. Hilton Head, South Carolina, November 28–29, 1989. Abstracts. **Epilepsia** 1990 May–Jun;31(3):353–6
Adjunctive therapy for intractable epilepsy with ethotoin. Biton V, et al. **Epilepsia** 1990 Jul–Aug;31(4):433–7
Discontinuation of phenytoin, carbamazepine, and valproate in patients with active epilepsy. Duncan JS, et al. **Epilepsia** 1990 May–Jun;31(3):324–33
Outcome after discontinuation of antiepileptic drug therapy in children with epilepsy. Matricardi M, et al. **Epilepsia** 1989 Sep–Oct;30(5):582–9
Cognitive effects of valproate. Gallassi R, et al. **Epilepsy Res** 1990 Mar;5(2):160–4
Possible roles for frequent salivary antiepileptic drug monitoring in the management of epilepsy. Herkes GK, et al. **Epilepsy Res** 1990 Jul;6(2):146–54
Pharmacodynamics and pharmacokinetics of AHR–11748, a new antiepileptic agent, in rodents. Johnson DN, et al. **Epilepsy Res** 1990 Apr;5(3):185–91
An evaluation of the anticonvulsant effects of vitamin E. Levy SL, et al. **Epilepsy Res** 1990 May–Jun;6(1):12–7
Inhibition of photosensitive seizures in man by the beta–carboline, ZK 95962, a selective benzodiazepine receptor agonist. Møller A, et al. **Epilepsy Res** 1990 Mar; 5(2):155–9
The efficacy and tolerability of chewable carbamazepine compared to conventional carbamazepine in patients with epilepsy. Patsalos PN, et al. **Epilepsy Res** 1990 Apr; 5(3):235–9
Differences in side effects between a conventional carbamazepine preparation and a slow–release preparation of carbamazepine. Persson LI, et al. **Epilepsy Res** 1990 Jul; 6(2):134–40
Nifedipine as an add–on drug in the management of refractory epilepsy. Sander JW, et al. **Epilepsy Res** 1990 May–Jun;6(1):82–4
Suppression of inter–ictal spikes by CM40907. A double–blind placebo–controlled investigation and review of spike counting as a methodology for assessing the antiepileptic effect of drugs. Yepez–Lasso R, et al. **Epilepsy Res** 1990 Apr;5(3):247–50
Pharmacokinetics of anticonvulsants in pregnancy: alterations in plasma protein binding. Yerby MS, et al. **Epilepsy Res** 1990 Apr;5(3):223–8
Plasma level distribution, effect and toxicity of antiepileptic drugs among Ethiopian epileptics. Bekele G, et al. **Ethiop Med J** 1990 Jan;28(1):23–30
Anticonvulsant effects of antagonists of the N–methyl–D–aspartate receptor complex in a genetic model of epilepsy: the quaking mouse. Mitrovic N, et al. **Eur J Pharmacol** 1990 Feb 13;176(3):357–61
Valproic acid–induced carbamazepine–10,11–epoxide toxicity in children and adolescents. Rambeck B, et al. **Eur Neurol** 1990;30(2):79–83
Serum immunoglobulins, complement levels and lymphocyte subpopulations in phenytoin–treated epileptic patients. Başaran N, et al. **Immunopharmacol Immunotoxicol** 1989; 11(2–3):335–46
Drug therapy. Carbamazepine. Sharma M, et al. **Indian Pediatr** 1989 Jul;26(7):685–90 (45 ref.)
Valproate sodium in epilepsy. A clinical trial including monitoring of drug levels. Mehrotra TN, et al. **J Assoc Physicians India** 1990 Apr;38(4):277–9
Hematologic monitoring in children with epilepsy treated with carbamazepine. Evans OB, et al. **J Child Neurol** 1989 Oct;4(4):286–90
Bromide therapy for pediatric seizure disorder intractable to other antiepileptic drugs. Woody RC. **J Child Neurol** 1990 Jan;5(1):65–7
Antiepileptic polypharmacy, psychosocial behaviour and locus of control orientation among mentally handicapped adults living in the community. Espie CA, et al. **J Ment Defic Res** 1990 Aug;34 (Pt 4):351–60
Hepatic lesions in Danish epileptics after long–term exposure to anticonvulsant drugs including phenobarbitone [comment] Ward JM, et al. **J Natl Cancer Inst** 1989 Nov 15;81(22):1753–4 Comment on: J Natl Cancer Inst 1989 May 10;81(10):803–8.
Progress in the treatment of epilepsy [editorial] Binnie CD. **J Neurol Neurosurg Psychiatry** 1990 Apr;53(4):273–4
Prospects for new drug treatment in epilepsy: a review. Chadwick D. **J R Soc Med** 1990 Jun;83(6):383–6 (41 ref.)
Sustained attention during the interictal period of mentally normal children with epilepsy or febrile convulsions, and the influence of anticonvulsants and seizures on attention. Hara H, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):411–6
Level dose ratio and the threshold of intoxication level by dosages of three different phenytoin preparations. Kugoh T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):509–10
Axonal dystrophy in the posterior column nuclei of young adult epileptics with chronic phenytoin intoxication. Nakamura H, et al. **Jpn J Psychiatry Neurol** 1989 Dec; 43(4):685–93
TDM trial in the seizure clinic of mental hospital, particular investigation for refractory cases. Takeuchi M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):504–6
Carbamazepine update [letter] [see comments] **Lancet** 1989 Oct 21;2(8669):980–1 Comment in: Lancet 1989 Nov 25;2(8674):1275–6.
Established anticonvulsants and treatment of refractory epilepsy. Brodie MJ. **Lancet** 1990 Aug 11;336(8711):350–4 (39 ref.)
Management of epilepsy during pregnancy and lactation. Brodie MJ. **Lancet** 1990 Aug 18;336(8712):426–7
Treatment of epilepsy and febrile convulsions in children. Rylance GW. **Lancet** 1990 Aug 25;336(8713):488–91 (29 ref.)
Seizures and natural vitamin E [letter] Sullivan C, et al. **Med J Aust** 1990 Jun 4;152(11):613–4
The effect of valproic acid on SCE and chromosome aberrations in epileptic children. Hu LJ, et al. **Mutat Res** 1990 Jan;243(1):63–6
Effect of a noncompetitive antagonist (MK–801) of NMDA receptors on convulsions and brain amino acid level in E1 mice. Sato K, et al. **Neurochem Res** 1989 Aug;14(8):741–4
Clinical pharmacology of antiepileptic drugs. Selected topics. Theodore WH. **Neurol Clin** 1990 Feb;8(1):177–91 (122 ref.)
Pharmacokinetics and safety of a phenytoin prodrug given i.v. or i.m. in patients. Leppik IE, et al. **Neurology** 1990 Mar;40(3 Pt 1):456–60
Improvement in cognitive functioning and mood state after conversion to valproate monotherapy. Prevey ML, et al. **Neurology** 1989 Dec;39(12):1640–1
Anticonvulsant blood levels [letter; comment] Raphaelson M. **Neurology** 1990 Apr;40(4):726–7 Comment on: Neurology 1989 Aug;39(8):1009–10.
CGP 31358 binds to a site on the NMDA receptor that is coupled to both the transmitter recognition site and the channel domain. Baud J, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):184–8
Anticonvulsant effects of tetronic acid derivatives on picrotoxin induced epileptiform activity in rat hippocampal slices. Köhr G, et al. **Neurosci Lett** 1990 Apr 20;112(1):43–7
Phenobarbital treatment and major depressive disorder in children with epilepsy: a naturalistic follow–up. Brent DA, et al. **Pediatrics** 1990 Jun;85(6):1086–91
How to get patients with epilepsy to take their medication. The problem of noncompliance. Leppik IE. **Postgrad Med** 1990 Jul;88(1):253–6
The diagnosis and management of epilepsy. Hart Y. **Practitioner** 1990 Feb 22;234(1483):160–3
Treatment of epilepsy: with special reference to developing countries. Osuntokun BO. **Prog Neuropsychopharmacol** 1979;3(1–3):81–94 (72 ref.)
Serum IgA deficiency induced by prolonged phenytoin treatment. Talesnik E, et al. **Rev Invest Clin** 1989 Oct–Dec; 41(4):331–5
Therapeutic drug monitoring in a paediatric epilepsy clinic. Botha J, et al. **S Afr Med J** 1990 May 19;77(10):511–4
A study of the interaction between omeprazole and phenytoin in epileptic patients. Andersson T, et al. **Ther Drug Monit** 1990 Jul;12(4):329–33
Endogenous opioid peptides and epilepsy: quieting the seizing brain? Tortella FC. **Trends Pharmacol Sci** 1988 Oct; 9(10):366–72 (37 ref.)
Epilepsy [comment] Hosking G. **Trop Doct** 1990 Apr; 20(2):49–51 Comment on: Trop Doct 1990 Apr;20(2):52–5.
Treating epilepsy in Malawi: lessons learned [see comments] Watts AE. **Trop Doct** 1990 Apr;20(2):52–5 Comment in: Trop Doct 1990 Apr;20(2):49–51.
[An experimental observation on the calmative and

antiepileptic effects of a new synthetic drug SC1001-aminum intupaias] Chai HX, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar;20(1):21-3 (Eng. Abstr.) **(Chi)**

[The effect of vanillin on the fully amygdala-kindled seizures in the rat] Wu HQ, et al. **Yao Hsueh Hsueh Pao** 1989; 24(7):482-6 (Eng. Abstr.) **(Chi)**

[Prognosis in epilepsy and tactics in terminating antiepileptic therapy] Kristof M. **Cesk Neurol Neurochir** 1990 May; 53(3):156-63 (Eng. Abstr.) **(Cze)**

[Selected data from childhood epilepsies. ACTH treatment and ketogenic diet: a critical evaluation] Renier WO, et al. **Tijdschr Kindergeneeskd** 1989 Jun;57(3):81-6 (Eng. Abstr.) **(Dut)**

[Hydrocortisone therapy of secondary generalized epilepsy in children] Hasaerts D, et al. **Arch Fr Pediatr** 1989 Nov; 46(9):635-9 (Eng. Abstr.) **(Fre)**

[Epilepsy and pregnancy. Apropos of 50 cases] Lefebvre G, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1989; 18(8):1031-6 (Eng. Abstr.) **(Fre)**

[Comparative open trial of carbamazepine and slow-release carbamazepine in epilepsy in adults] Remy C. **Presse Med** 1990 Mar 24;19(11):511-3 (Eng. Abstr.) **(Fre)**

[Stopping antiepileptic treatment] Loiseau P, et al. **Rev Neurol (Paris)** 1990;146(5):380-2 (13 ref.) (Eng. Abstr.) **(Fre)**

[When to begin antiepileptic treatment?] Weber M. **Rev Neurol (Paris)** 1990;146(5):377-9 (17 ref.) (Eng. Abstr.) **(Fre)**

[Drug treatment of epilepsy] Fröscher W. **Fortschr Med** 1990 Feb 20;108(5):77-81 (17 ref.) (Eng. Abstr.) **(Ger)**

[Epilepsy research: three important working areas] von Albert HH. **Fortschr Med** 1990 Feb 20;108(5):73 **(Ger)**

[Anticonvulsants and their psychological effects--a review] Blank R. **Fortschr Neurol Psychiatr** 1990 Jan;58(1):19-32 (220 ref.) (Eng. Abstr.) **(Ger)**

[Psychopathology and performance behavior in anticonvulsant treatment of children and adolescents] Blank R. **Z Kinder Jugenpsychiatr** 1989 Sep;17(3):140-9 (110 ref.) **(Ger)**

[Lennox-Gestaut syndrome: therapeutic aspects] Pisani F, et al. **Riv Neurol** 1989 Nov-Dec;59(6):217-9 (21 ref.) (Eng. Abstr.) **(Ita)**

[Therapeutic drug monitoring of clonazepam, nitrazepam and diazepam] Hishida H. **Nippon Rinsho** 1990 Feb;48 Suppl:1116-9 **(Jpn)**

[Discontinuation of antiepileptic drug treatment in controlled seizure patients] Uesugi H. **Seishin Shinkeigaku Zasshi** 1990; 92(6):343-66 (Eng. Abstr.) **(Jpn)**

[Comparison of the effects of mono- and polychemotherapy in children with epilepsy] Ircha G. **Neurol Neurochir Pol** 1989 Jan;23(1):12-6 (Eng. Abstr.) **(Pol)**

[Effect of a Ca-channel blocker, ryodipine, on focal and generalized epileptic activity] Karpova MN, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):553-5 (Eng. Abstr.) **(Rus)**

[Changes in neural-mental function in epilepsy under the action of anticonvulsant therapy] Badalian LO, et al. **Sov Med** 1990;(6):38-42 (46 ref.) **(Rus)**

[GABA receptor complex and the mechanisms of action of various anticonvulsants (review of the literature)] Aksent'ev SB, et al. **Zh Nevropatol Psikhiatr** 1990; 90(1):136-46 (144 ref.) **(Rus)**

[Differentiated treatment of epilepsy with regard to the nature of fits] Karlov VA. **Zh Nevropatol Psikhiatr** 1989; 89(12):112-3 **(Rus)**

[Clinical pharmacokinetics of carbamazepine (review of the literature)] Martynova LA, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):145-8 (49 ref.) **(Rus)**

[Pharmacological characteristics of an anti-convulsive drug Benzonal and the evaluation of its therapeutic effectiveness (review of the literature)] Okudzhava VM, et al. **Zh Nevropatol Psikhiatr** 1989;89(11):136-45 (81 ref.) **(Rus)**

[Metabolism of an antiepileptic drug halonal in experimental studies] Okudzhava VM, et al. **Zh Nevropatol Psikhiatr** 1989;89(10):69-70 (Eng. Abstr.) **(Rus)**

[Anticonvulsant-induced osteomalacia (review of the literature)] Valchene NV, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):122-7 (81 ref.) **(Rus)**

[Treatment of epilepsy in adults] Jovičić A, et al. **Vojnosanit Pregl** 1990 Mar-Apr;47(2):112-7 (64 ref.) **(Scr)**

[Various risk factors for infantile epilepsy relapse after the end of treatment] Compén de Landeras R. **Bol Med Hosp Infant Mex** 1990 Jan;47(1):32-8 (21 ref.) (Eng. Abstr.) **(Spa)**

[Suspension of therapy in epilepsy: 15 years' experience] Oller-Daurella L, et al. **Neurologia** 1988 Jan-Feb;3(1):14-8 (18 ref.) (Eng. Abstr.) **(Spa)**

[Possibilities for recovery in epilepsy] Oller-Daurella L. **Recenti Prog Med** 1989 Dec;80(12):712-7 (Eng. Abstr.) **(Spa)**

[Oral loading dose of phenytoin] Galdames D, et al. **Rev Med Chil** 1988 Nov;116(11):1162-6 (24 ref.) (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Inhibition of epoxide hydrolase by valproic acid in epileptic patients receiving carbamazepine. Robbins DK, et al. **Br J Clin Pharmacol** 1990 Jun;29(6):759-62

Milacemide stimulates deficient glial Na+, K(+)-ATPase in freezing-induced epileptogenic cortex of cats. Laschet J, et al. **Brain Res** 1990 May 28;517(1-2):168-74

Lipid peroxidation and glutathione peroxidase, glutathione reductase, superoxide dismutase, catalase, and glucose-6-phosphate dehydrogenase activities in FeCl3-induced epileptogenic foci in the rat brain. Singh R, et al. **Epilepsia** 1990 Jan-Feb;31(1):15-26

Differences in dopamine beta-hydroxylase immunoreactivity between the brains of genetically epilepsy-prone and Sprague-Dawley rats. Lauterborn JC, et al. **Epilepsy Res** 1989 Nov-Dec;4(3):161-76

Probable pseudocholinesterase induction by valproic acid, carbamazepine and phenytoin leading to increased serum aspirin-esterase activity in epileptics. Puche E, et al. **Int J Clin Pharmacol Res** 1989;9(5):309-11

Developmental change of dopamine beta-hydroxylase activity in cerebrospinal fluid of epileptic and non-epileptic children. Suzuki H, et al. **J Neural Transm Gen Sect** 1990; 80(3):225-30

Activity of some lysosomal enzymes and postnatal ontogenetic development of epileptic reactivity in rabbit brain. Hategan D, et al. **Neurol Psychiatr (Bucur)** 1989 Oct-Dec;27(4):305-13

[Serum beta-glucuronidase activity in patients with epilepsy] Jadot G, et al. **Therapie** 1990 Mar-Apr;45(2):151-5 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Prevalence and treatment of mental disorders and epilepsy in Zanzibar. Bondestam S, et al. **Acta Psychiatr Scand** 1990 Apr;81(4):327-31

A survey of epileptic disorders in southwest France: seizures in elderly patients. Loiseau J, et al. **Ann Neurol** 1990 Mar; 27(3):232-7

Seizures and epilepsy. Flint G. **Br J Neurosurg** 1988; 2(3):419-21

The epileptic among the Bamileke of Maham in the Nde Division, West Province of Cameroon. Nkwi PN, et al. **Cult Med Psychiatry** 1989 Dec;13(4):437-48 (14 ref.)

Epidemiologic survey of epilepsy among Army draftees in Lombardy, Italy. Cornaggia CM, et al. **Epilepsia** 1990 Jan-Feb;31(1):27-32

Survey of public awareness, understanding, and attitudes toward epilepsy in Henan province, China. Lai CW, et al. **Epilepsia** 1990 Mar-Apr;31(2):182-7

Prevalence of epilepsy and seizure disorders in an urban minority population: a feasibility study. Locke GE, et al. **Epilepsia** 1989 Nov-Dec;30(6):747-55

Survey of seizure disorders in the French southwest. I. Incidence of epileptic syndromes. Loiseau J, et al. **Epilepsia** 1990 Jul-Aug;31(4):391-6

An incident case-referent study of epileptic seizures in adults. Forsgren L, et al. **Epilepsy Res** 1990 May-Jun;6(1):66-81

Epilepsy in school children with intellectual impairments in Sheffield: the size and nature of the problem and the implications for service provision. Shepherd C, et al. **J Ment Defic Res** 1989 Dec;33 (Pt 6):511-4

Epilepsy in old age. Tallis R. **Lancet** 1990 Aug 4; 336(8710):295-6 (19 ref.)

National General Practice Study of Epilepsy and Epileptic Seizures: objectives and study methodology of the largest reported prospective cohort study of epilepsy. National General Practice Study of Epilepsy and Epileptic Seizures (NGPSE). Hart YM, et al. **Neuroepidemiology** 1989; 8(5):221-7

Problems in estimating the prevalence of epilepsy in children: the yield from different sources of information. Cowan LD, et al. **Paediatr Perinat Epidemiol** 1989 Oct;3(4):386-401

[Factors influencing the effectiveness of preventive treatment of febrile convulsions] Herranz Fernández JL, et al. **An Esp Pediatr** 1989 Aug;31(2):118-21 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Influence of surgery and antiepileptic drugs on seizures symptomatic of cerebral tumours. Franceschetti S, et al. **Acta Neurochir (Wien)** 1990;103(1-2):47-51

The natural history of late-onset epilepsy secondary to vascular disease. Fish DR, et al. **Acta Neurol Scand** 1989 Dec;80(6):524-6

Landau-Kleffner syndrome--epileptic aphasia in children--possible role of toxoplasma gondii infection. Michałowicz R, et al. **Acta Paediatr Hung** 1988-89; 29(3-4):337-42

Organic disorders in children with epileptic seizures. Coe CJ, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Jun; 31(3):267-72

Epilepsy in hydrocephalic children. Saukkonen AL, et al. **Acta Paediatr Scand** 1990 Feb;79(2):212-8

Relation between epileptic activities and edema formation after cryogenic injury in the rabbit. Loiseau H, et al. **Adv Neurol** 1990;52:257-67

Epilepsy following non-missile head injury among African people in Dar es Salaam: a retrospective clinical analysis study. Matuja WB. **Afr J Med Med Sci** 1990 Jun; 19(2):89-92

Indolent glioma: a cause of epilepsy. Lee TK, et al. **Arch Dis Child** 1989 Dec;64(12):1666-71

Neurocysticercosis as the main cause of late-onset epilepsy in Mexico. Medina MT, et al. **Arch Intern Med** 1990 Feb; 150(2):325-7

Epileptic seizures in acute stroke. Kilpatrick CJ, et al. **Arch Neurol** 1990 Feb;47(2):157-60

Multiple forms of epileptic attack secondary to a small chronic subdural haematoma. Jones SC, et al. **BMJ** 1989 Aug 12;299(6696):439-41

Unilateral photoconvulsive response in agenesis of the corpus callosum. Brinciotti M, et al. **Clin Electroencephalogr** 1990 Apr;21(2):101-3

Epilepsy in brain-injured children. Aicardi J. **Dev Med Child Neurol** 1990 Mar;32(3):191-202 (97 ref.)

Risk of seizures. Wallace SJ. **Dev Med Child Neurol** 1990 Jul;32(7):645-9 (47 ref.)

Aetiological factors in Tanzanian epileptics. Matuja WB. **East Afr Med J** 1989 May;66(5):343-8

Television epilepsy--the role of pattern. Wilkins AJ, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):163-71

Acquired epileptic aphasia (the Landau-Kleffner syndrome) due to neurocysticercosis. Otero E, et al. **Epilepsia** 1989 Sep-Oct;30(5):569-72

The prognosis of convulsions during childhood shigellosis. Zvulunov A, et al. **Eur J Pediatr** 1990 Jan;149(4):293-4

Pilomotor epilepsy. Scoppetta C, et al. **Funct Neurol** 1989 Jul-Sep;4(3):283-6 (12 ref.)

Epileptic seizures in thrombotic stroke. Sung CY, et al. **J Neurol** 1990 Jun;237(3):166-70

Epileptic seizures in intracerebral haemorrhage. Sung CY, et al. **J Neurol Neurosurg Psychiatry** 1989 Nov; 52(11):1273-6

Epilepsy and brain tumours in children. Hirsch JF. **J Neuroradiol** 1989 Dec;16(4):292-300 **(Eng, Fre)**

Epileptogenic cerebral vascular malformations and MRI. Trussart V, et al. **J Neuroradiol** 1989 Dec;16(4):273-84 **(Eng, Fre)**

Sturge-Weber disease without facial nevus. Maiuri F, et al. **J Neurosurg Sci** 1989 Apr-Jun;33(2):215-8

Seizure induction by alcohol in patients with epilepsy experience in two hospital clinics. Heckmatt J, et al. **J R Soc Med** 1990 Jan;83(1):6-9

Epilepsy and photosensitivity. Aziz H, et al. **JPMA** 1989 Aug;39(8):212-4

Safety of transcranial magnetic stimulation [letter; comment] Kandler R. **Lancet** 1990 Feb 24;335(8687):469-70 Comment on: Lancet 1989 Nov 18;2(8673):1223.

Involvement of NMDA receptors in non-convulsive epilepsy in WAG/Rij rats. Peeters BW, et al. **Life Sci** 1990; 47(6):523-9

Nintendo epilepsy [letter] Hart EJ. **N Engl J Med** 1990 May 17;322(20):1473

Epileptic activity following 10 minute cerebral ischemia in Mongolian gerbils: an electrophysiological study. Grazia Marciani M, et al. **Neurosci Lett** 1990 Apr 20;112(1):48-53

The case of the overly stimulating mall. Edwards KS. **Ohio Med** 1990 Apr;86(4):263-6

Relationship of pertussis immunization to the onset of epilepsy, febrile convulsions and central nervous system infections: a retrospective epidemiologic study. Jacobson V, et al. **Tokai J Exp Clin Med** 1988;13 Suppl:137-42

[Research on models of epilepsy and its mechanism] Wu DZ, et al. **Sheng Li Ko Hsueh Chin Chan** 1989 Jul;20(3):250-4 (40 ref.) **(Chi)**

[Tumor epilepsy. Apropos of a case of temporal astrocytoma] Berquin P, et al. **Ann Pediatr (Paris)** 1989 Sep;36(7):461-3 (Eng. Abstr.) **(Fre)**

[Conference at the Salpêtrière. November 1988. Progressive dementia and generalized epilepsy in a young woman] Loiseau P, et al. **Rev Neurol (Paris)** 1990;146(5):383-9 **(Fre)**

[Lobar holoprosencephaly associated with heterotopic gray matter. A case disclosed in adulthood by epilepsy] Moulignier A, et al. **Rev Neurol (Paris)** 1990;146(1):51-4 (Eng. Abstr.) **(Fre)**

[Chronic subdural hematoma and transient neurologic deficits] Nicoli F, et al. **Rev Neurol (Paris)** 1990; 146(4):256-63 (60 ref.) (Eng. Abstr.) **(Fre)**

[Initial epileptic crisis after the age of 60: etiology, clinical aspects and EEG] Henny C, et al. **Schweiz Med Wochenschr** 1990 May 26;120(21):787-92 (Eng. Abstr.) **(Fre)**

[Principles of the diagnosis and treatment of epilepsy] von Albert HH. **Fortschr Med** 1990 Feb 20;108(5):74-6 (2 ref.) (Eng. Abstr.) **(Ger)**

[Clinical evaluation of the patients with epilepsy following febrile convulsions] Konishi T, et al. **No To Hattatsu** 1990 May;22(3):230-4 (Eng. Abstr.) **(Jpn)**

[A case of reflex epilepsy with binaual visual field defects attack induced by family computer game] Fukusako T, et al. **Rinsho Shinkeigaku** 1990 May;30(5):540-3 (Eng. Abstr.) **(Jpn)**

[Orthostatically induced epileptoid attack] Sakakibara R, et al. **Rinsho Shinkeigaku** 1989 Nov;29(11):1376-80 (Eng. Abstr.) **(Jpn)**

[Alcohol and epileptic seizures] Bovim G, et al. **Tidsskr Nor Laegeforen** 1990 Feb 10;110(4):493-6 (32 ref.) (Eng. Abstr.) **(Nor)**

[The role of adenosine cyclic monophosphate (c-AMP) in the pathogenesis of epilepsy and the mechanism of the action of anti-epileptic drugs] Szczechowski L, et al. **Wiad Lek** 1989 Jul 1-15;42(13-15):881-3 (28 ref.) (Eng.

Abstr.) (Pol)
[The role of Ca2+ in the pathogenesis of epilepsy. Calcium antagonists—a new class of anticonvulsants] Glebov RN, et al. **Patol Fiziol Eksp Ter** 1990 May-Jun;(3):57-61 (80 ref.) (Rus)
[Neuroendocrine disorders in epilepsy and their hormonal correction] Badalian LO, et al. **Sov Med** 1989;(10):49-51 (26 ref.) (Rus)
[Cyclic epilepsy in women] Govorukhina EM. **Sov Med** 1989; (9):121 (Rus)
[Epileptic attacks in patients after surgical treatment of recurrent mitral valve stenosis] Dziamidzenko EI, et al. **Vestn Khir** 1989 Aug;144(8):54-6 (Rus)
[Epileptic paroxysms in Recklinghausen's neurofibromatosis] Arkhipov BA, et al. **Zh Nevropatol Psikhiatr** 1990; 90(3):20-3 (Eng. Abstr.) (Rus)
[Neurologic syndromes in calcinosis of the vertebral artery] Buletsa BA. **Zh Nevropatol Psikhiatr** 1990;90(1):53-4 (Eng. Abstr.) (Rus)
[Alcohol and neoplasms of the brain] Krasik ED, et al. **Zh Nevropatol Psikhiatr** 1989;89(7):38-40 (Eng. Abstr.) (Rus)
[Late-onset epilepsy] Aragonés JM. **Med Clin (Barc)** 1990 Apr 14;94(14):531-2 (15 ref.) (Spa)
[Etiology of late-onset epilepsy. A prospective study in an area of rural health care] Jiménez Jiménez FJ, et al. **Med Clin (Barc)** 1990 Apr 14;94(14):521-4 (54 ref.) (Eng. Abstr.) (Spa)
[Reflex epilepsy induced by thought] Gil-Néciga E, et al. **Neurologia** 1986 Nov-Dec;1(6):260-2 (Eng. Abstr.) (Spa)
[Acquired aphasia syndrome with epilepsy (Landau-Kleffner syndrome) secondary to cerebral arteritis. 4 cases] Martínez Bermejo A, et al. **Neurologia** 1989 Oct;4(8):296-9 (Eng. Abstr.) (Spa)
[Delayed epilepsy as presenting form of agenesis of the corpus callosum (letter)] Montalbán J, et al. **Neurologia** 1987 Mar-Apr;2(2):89-90 (Spa)
[Expert opinion: There is no prove of increased risk of skin diseases or flicker problems in working with video terminals] Ehinger B. **Lakartidningen** 1989 Sep 6; 86(36):2970 (Swe)

GENETICS

Effects of seizures on learning, memory, and behavior in the genetically epilepsy-prone rat. Holmes GL, et al. **Ann Neurol** 1990 Jan;27(1):24-32
Trisomy 12p syndrome: a chromosomal disorder associated with generalized 3-Hz spike and wave discharges. Guerrini R, et al. **Epilepsia** 1990 Sep-Oct;31(5):557-66
Familial aggregation of epilepsy and clefting disorder:: a review of the literature. Hecht JT, et al. **Epilepsia** 1990 Sep-Oct;31(5):574-7 (27 ref.)
Comparative effects of phenytoin and/or phenobarbital treatment on sister chromatid exchange. Schaumann BA, et al. **Epilepsia** 1990 Jul-Aug;31(4):453-7
Head circumference in children of epileptic mothers: contributions of drug exposure and genetic background. Gaily EK, et al. **Epilepsy Res** 1990 Apr;5(3):217-22
Benign occipital epilepsy of childhood: a family study. Nagendran K, et al. **J R Soc Med** 1989 Nov;82(11):684-5
[Familial syndrome combining short stature. microcephaly, mental deficiency, seizures, hearing loss, and skin lesions. A new syndrome] Boudhina T, et al. **Ann Pediatr (Paris)** 1990 Jun;37(6):399-403 (Eng. Abstr.) (Fre)
[The epilepsy mutant] Suzuki J, et al. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1214-26 (Jpn)
[Epilepsy in ring chromosome 14 syndrome] Duarte MH, et al. **Arq Neuropsiquiatr** 1989 Jun;47(2):205-11 (Eng. Abstr.) (Por)
[Analysis of the interconnection between susceptibility factors to schizophrenia and epilepsy] Ritsner MS. **Genetika** 1989 Aug;25(8):1473-9 (Eng. Abstr.) (Rus)
[Families of drug addicts] Radchenko AF, et al. **Zh Nevropatol Psikhiatr** 1990;90(2):38-42 (Eng. Abstr.) (Rus)

HISTORY

Psychiatric nosology and taxonomy in ancient India. Haldipur CV. **Acta Psychiatr Scand** 1989 Aug;80(2):148-50
Epilepsy in Gowers's understanding, a century ago. Eadie MJ. **Clin Exp Neurol** 1989;26:13-22 (20 ref.)
Van Gogh had Menière's disease and not epilepsy. Arenberg IK, et al. **JAMA** 1990 Jul 25;264(4):491-3
Texts and documents. Translation and analysis of a cuneiform text forming part of a Babylonian treatise on epilepsy. Wilson JV, et al. **Med Hist** 1990 Apr;34(2):185-98
[Epilepsy—a provocation? Psychosocial aspects of epilepsy over 4 millennia] Schneble H. **Nervenarzt** 1989 Aug; 60(8):501-5 (Ger)
[The history of epileptology and electroencephalography with special reference to the Swiss and Polish contributions] Karbowski K. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):751-6 (Ger)
[The mind and epilepsy: opinions and viewpoints over the course of time] Vaney C. **Schweiz Rundsch Med Prax** 1989 Jul 18;78(29-30):816-24 (Eng. Abstr.) (Ger)

IMMUNOLOGY

Observation on anti-brain antibody in serum of 110 epileptics. Xie XK, et al. **Chin Med J [Engl]** 1990 Jan;103(1):71-5
Intravenous immunoglobulin: a single-blind trial in children with Lennox-Gastaut syndrome. Illum N, et al. **Neuropediatrics** 1990 May;21(2):87-90
[An immunologic study of patients with epilepsy] Xie X. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1990 Jun; 23(3):182-4, 191-2 (Eng. Abstr.) (Chi)
[Neuroimmunologic parameters in therapy refractory epilepsy in children] Lischka A, et al. **Wien Klin Wochenschr** 1990 Apr 13;102(8):227-30 (Eng. Abstr.) (Ger)

METABOLISM

The changes of peroxidation of unsaturated fatty acids in epileptic mirror focus in rats. Rokyta R, et al. **Act Nerv Super (Praha)** 1989 Oct;31(3):227-8
Epilepsy and the GABA-hypothesis a brief review and some examples. De Deyn PP, et al. **Acta Neurol Belg** 1990; 90(2):65-81 (70 ref.)
Propofol, porphyria and epilepsy [letter] Parr MJ, et al. **Anaesthesia** 1990 Jul;45(7):594
Adenosine receptors in brain: neuromodulation and role in epilepsy. Chin JH. **Ann Neurol** 1989 Dec;26(6):695-8 (39 ref.)
The effect of clobazam on steady state plasma concentrations of carbamazepine and its metabolites. Muñoz JJ, et al. **Br J Clin Pharmacol** 1990 Jun;29(6):763-5
A comparative pharmacokinetic study of conventional and chewable carbamazepine in epileptic patients. Patsalos PN. **Br J Clin Pharmacol** 1990 May;29(5):574-7
Suppressive effects of intranigral injection of muscimol in three models of generalized non-convulsive epilepsy induced by chemical agents. Depaulis A, et al. **Brain Res** 1989 Sep 25;498(1):64-72
Induction of epileptic seizure activity by a specific protein from cobalt-induced epileptogenic cortex of rats. Onozuka M, et al. **Brain Res** 1990 Jan 15;507(1):143-5
NMDA-receptor-independent effects of low magnesium: involvement of adenosine. Stone TW, et al. **Brain Res** 1990 Feb 5;508(2):333-6
Calcium, neuronal hyperexcitability and ischemic injury. Meyer FB. **Brain Res Brain Res Rev** 1989 Jul-Sep; 14(3):227-43 (171 ref.)
Alterations in cytosolic free calcium in the cat cortex during bicuculline-induced epilepsy. Uematsu D, et al. **Brain Res Bull** 1990 Feb;24(2):285-8
NMDA receptor antagonists attenuate a portion of the penicillin-induced epileptiform burst. Watson GB, et al. **Brain Res Bull** 1990 Jun;24(6):765-8
A study of monoamine metabolism in human epilepsy. Louw D, et al. **Can J Neurol Sci** 1989 Nov;16(4):394-7
Daily salivary anticonvulsant monitoring in patients with intractable epilepsy. Herkes GK, et al. **Clin Exp Neurol** 1989;26:141-9
Carbamazepine clearance in paediatric epilepsy patients. Influence of body mass, dose, sex and co-medication. Summers B, et al. **Clin Pharmacokinet** 1989 Sep; 17(3):208-16
Pilot study to determine the interaction of oxiracetam with antiepileptic drugs. van Wieringen A, et al. **Clin Pharmacokinet** 1990 Apr;18(4):332-8
Genetically epilepsy-prone rats are characterized by altered tissue trace element concentrations. Carl GF, et al. **Epilepsia** 1990 May-Jun;31(3):247-52
Neurotransmitter receptors in adult tottering (tg/tg) mice. Dusser AE, et al. **Epilepsia** 1990 Jul-Aug;31(4):378-81
Pharmacokinetic profile of a 300-mg extended phenytoin sodium capsule (Dilantin) formulation. Randinitis EJ, et al. **Epilepsia** 1990 Jul-Aug;31(4):458-64
Suppression of 4-aminopyridine-induced epileptogenesis by the GABAA agonist muscimol. Chesnut TJ, et al. **Epilepsy Res** 1990 Jan-Feb;5(1):8-17
Effects of NMDA antagonists on picrotoxin-, low Mg2+- and low Ca2+-induced epileptogenesis and on evoked changes in extracellular Na+ and Ca2+ concentrations in rat hippocampal slices. Köhr G, et al. **Epilepsy Res** 1989 Nov-Dec;4(3):187-200
Multiple-dose pharmacokinetic study with a slow-release carbamazepine preparation. Reunanen M, et al. **Epilepsy Res** 1990 Jul;6(2):126-33
A selective decrease in the number of GABAergic somata occurs in pre-seizing monkeys with aluminx gel granuloma. Ribak CE, et al. **Epilepsy Res** 1989 Sep-Oct;4(2):126-38
Quisqualate receptors in epileptic fowl: the absence of coupling between quisqualate and N-methyl-D-aspartate receptors. Pedder SC, et al. **Eur J Pharmacol** 1990 Jan 3;175(1):85-91
The role of excitatory amino acid receptors in the propagation of epileptiform discharges from the entorhinal cortex to the dentate gyrus in vitro. Jones RS, et al. **Exp Brain Res** 1990;80(2):310-22
Regional difference in responsiveness of adenosine-sensitive cyclic AMP-generating systems in chronic epileptic cerebral cortex of the rat. Hattori Y. **J Neurochem** 1990 Oct;55(4):1294-303
Regional difference in responsiveness of norepinephrine-sensitive cyclic AMP-generating systems of rat cerebral cortex with iron-induced epileptic activity. Hattori Y, et al. **J Neurochem** 1990 Feb;54(2):518-25
Biochemical and radiohistochemical analyses of alpha-2 adrenergic receptors in the kindling model of epilepsy. Chen LS, et al. **J Pharmacol Exp Ther** 1990 Jun; 253(3):1272-7
Somatostatin and epilepsy. Riekkinen PJ, et al. **Metabolism** 1990 Sep;39(9 Suppl 2):112-5
Modifying effect of estradiol and progesterone on epileptic activity of the rat brain. Gevorkyan ES, et al. **Neurosci Behav Physiol** 1989 Sep-Oct;19(5):412-5
The role of the central serotonergic system in pilocarpine-induced seizures: receptor mechanisms. Janusz W, et al. **Neurosci Res** 1989 Nov;7(2):144-53
Decrease in hippocampal [3H]vinylidene kainic acid binding in genetically epilepsy-prone rats. Mills SA, et al. **Neuroscience** 1990;35(3):519-24
Amino acid neurotransmitters in iron-induced epileptic foci of rats. Shiota A, et al. **Res Commun Chem Pathol Pharmacol** 1989 Oct; 66(1):123-33
Imaging mu-opiate receptors in epilepsy by positron emission tomography. Frost JJ. **Semin Neurol** 1989 Dec;9(4):317-22 (34 ref.)
Levels of biogenic amines, their metabolites, and tyrosine hydroxylase activity in the human epileptic temporal cortex. Pintor M, et al. **Synapse** 1990;5(2):152-6
[Saliva phenobarbital concentration in epileptics] Shen D. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):369-70, 382 (Eng. Abstr.) (Chi)

MORTALITY

Mortality and cause of death in patients with epilepsy over 16 years of age. Hashimoto K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):546-7
[Death in an epileptic seizure] Wiese J, et al. **Versicherungsmedizin** 1990 Aug 1;42(4):113-5 (Eng. Abstr.) (Ger)

NURSING

Epilepsy: the school nurse's dilemma. Frank J. **J Sch Health** 1990 Jan;60(1):34-5

PATHOLOGY

Chronic encephalitis, epilepsy, and cerebrovascular immune complex deposits. Andrews JM, et al. **Ann Neurol** 1990 Jul;28(1):88-90
The hippocampus in experimental chronic epilepsy: a morphometric analysis. Bertram EH, et al. **Ann Neurol** 1990 Jan;27(1):43-8
The distribution of chromogranin A-like immunoreactivity in the human hippocampus coincides with the pattern of resistance to epilepsy-induced neuronal damage. Munoz DG. **Ann Neurol** 1990 Mar;27(3):266-75
Handedness and epileptic schizophrenia. Oyebode F, et al. **Br J Psychiatry** 1990 Feb;156:228-30
Growing bilateral occipital calcifications and epilepsy. DeMarco P, et al. **Brain Dev** 1990;12(3):342-4
The spontaneously epileptic rat (SER), a zitter*tremor double mutant rat: histopathological findings in the central nervous system. Inui T, et al. **Brain Res** 1990 May 28; 517(1-2):123-33
PET, CT, and MRI imaging of neuronal migration anomalies in epileptic patients. Falconer J, et al. **Can J Neurol Sci** 1990 Feb;17(1):35-9
Evaluation of placental morphology and growth factor receptors in women receiving antiepileptic drugs: a pilot study. Eeg-Olofsson O, et al. **Epilepsia** 1990 Jul-Aug; 31(4):446-52
[Pathologic changes in the brain in burned children with septicemia and epileptiform convulsion—report of 5 autopsies] Yin JB. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1990 Mar;6(1):27-8, 75 (Eng. Abstr.) (Chi)
[Preliminary results of comparative studies of cerebral hemiatrophy in humans and animals] Pollak KG. **Zh Nevropatol Psikhiatr** 1989;89(10):127-9 (Eng. Abstr.) (Rus)

PHYSIOPATHOLOGY

Sleep and sleep deprived EEG in partial and generalized epilepsy. Drake ME Jr, et al. **Acta Neurol Belg** 1990; 90(1):11-9 (44 ref.)
Photosensitivity in epilepsy. Electrophysiological and clinical correlates. Kasteleijn-Nolst Trenité DG. **Acta Neurol Scand Suppl** 1989;125:3-149
Clinical study of epileptic children with frequent seizures. Horita H, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Jun; 31(3):237-44
Clinical and electroencephalographic studies of postencephalitic epilepsy. Yoshioka M, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Aug;31(4):480-3
Spreading of epileptic afterdischarges between entorhinal cortex and hippocampus in acute experiments and the kindling model of epilepsy in the rat—comparing different methods of analysis. Trąbka W, et al. **Acta Physiol Pol** 1989 Mar-Apr;40(2):194-214
Eyelid twitching seizures and generalized tonic-clonic convulsions: a syndrome of idiopathic generalized epilepsy. Miller JW, et al. **Ann Neurol** 1990 Mar;27(3):334-6
The development of independent foci in epileptic patients. Niediek T, et al. **Arch Neurol** 1990 Apr;47(4):406-11

Does kindling model anything clinically relevant? Adamec RE. **Biol Psychiatry** 1990 Feb 1;27(3):249–79 (115 ref.)

The effects of calcium channel antagonists in an in vitro cortical slice model of epilepsy. Boulton CL, et al. **Br J Pharmacol** 1989 Dec;98 Suppl:836P

Involvement of excitatory amino acid receptors in epileptiform activity in the rat entorhinal cortex and dentate gyrus in vitro. Jones RS, et al. **Br J Pharmacol** 1989 Dec; 98 Suppl:835P

Glutamate, without GABA antagonists, induces synchronized discharges in intact hippocampus via NMDA receptors. Dalkara T, et al. **Brain Res** 1989 Sep 25; 498(1):123–30

Substantia nigra–mediated anticonvulsant action: a possible role of a dopaminergic component. La Grutta V, et al. **Brain Res** 1990 May 7;515(1–2):87–93

Two–dimensional current source density analysis of propagation delays for components of epileptiform bursts in rat hippocampal slices. Novak JL, et al. **Brain Res** 1989 Sep 18;497(2):223–30

Long–term enhancement of postsynaptic excitability after brief exposure to Mg2(+)-free medium in normal and epileptic mice. Psarropoulou C, et al. **Brain Res** 1990 Jan 29;508(1):70–5

Laminar analysis of bicuculline–induced epileptiform activity in area 17 of the awake macaque. Schroeder CE, et al. **Brain Res** 1990 May 7;515(1–2):326–30

Mechanisms of seizure suppression during rapid–eye–movement (REM) sleep in cats. Shouse MN, et al. **Brain Res** 1989 Dec 29;505(2):271–82

An NMDA–mediated component of excitatory synaptic input to dentate granule cells in 'epileptic' human hippocampus studied in vitro. Urban L, et al. **Brain Res** 1990 May 7; 515(1–2):319–22

MPTP is proconvulsant acutely but has no long–term effect in rodent models of seizure and epilepsy. Van Ness PC, et al. **Brain Res** 1989 Dec 18;504(2):289–92

Stimulation–induced status epilepticus: role of the hippocampal mossy fibers in the seizures and associated neuropathology. Vicedomini JP, et al. **Brain Res** 1990 Mar 26;512(1):70–4

Epileptiform activity in vitro can produce long–term synaptic failure and persistent neuronal depolarization. Watson GB, et al. **Brain Res** 1989 Sep 25;498(1):81–8

Animal models of the epilepsies. Fisher RS. **Brain Res Brain Res Rev** 1989 Jul–Sep;14(3):245–78 (332 ref.)

Magnetoencephalography in clinical epileptology and epilepsy research. Baumgartner C, et al. **Brain Topogr** 1990 Spring;2(3):203–19 (117 ref.)

Statistical classification of spikes in benign rolandic epilepsy. Wong PK, et al. **Brain Topogr** 1988 Winter;1(2):123–9

Stability of source estimates in rolandic spikes. Wong PK. **Brain Topogr** 1989 Fall–Winter;2(1–2):31–6

Interhemispheric EEG coherence before and after partial callosotomy. Montplaisir J, et al. **Clin Electroencephalogr** 1990 Jan;21(1):42–7

Convulsive disorders: mechanisms of epilepsy and anticonvulsant action. Bleck TP, et al. **Clin Neuropharmacol** 1990 Apr;13(2):121–8 (26 ref.)

Migraine, epilepsy, post–traumatic syndromes, and spreading depression. Gordon N. **Dev Med Child Neurol** 1989 Oct; 31(5):682–6 (28 ref.)

Electroclinical study of video–game epilepsy. Maeda Y, et al. **Dev Med Child Neurol** 1990 Jun;32(6):493–500

Epileptiform abnormalities during sleep in Rett syndrome. Aldrich MS, et al. **Electroencephalogr Clin Neurophysiol** 1990 May;75(5):365–70

Do epileptic foci in children migrate? The pros. Andermann F, et al. **Electroencephalogr Clin Neurophysiol** 1990 Aug; 76(2):96–9 (26 ref.)

Distribution of temporal spikes in relation to the sphenoidal electrode. Binnie CD, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov;73(5):403–9

Do epileptic foci in children migrate? The cons. Blume WT. **Electroencephalogr Clin Neurophysiol** 1990 Aug;76(2):100–5 (30 ref.)

Analysis of rapidly changing EEGs before generalized spike and wave complexes. Inouye T, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep; 76(3):205–21

The effects of anterior temporal lobectomy (ATL) on the middle–latency auditory evoked potential (MLAEP). Jacobson GP, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):230–41

Clinical correlations of photoparoxysmal responses. Jayakar P, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):251–4

Local cerebral metabolism during enflurane anesthesia: identification of epileptogenic foci. Myers RR, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):153–62

Can slow waves in the electrocorticogram (ECoG) help localize epileptic foci? Panet–Raymond D, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):464–73

A critical epileptic area in the cat's cortex and its relation to the cortical columns. Reichenthal E, et al. **Electroencephalogr Clin Neurophysiol** 1979 Aug; 47(2):147–52

Neuromagnetic topography of photoconvulsive response in man. Ricci GB, et al. **Electroencephalogr Clin Neurophysiol** 1990 Feb;75(2):1–12

A simple method for 3–dimensional localization of epileptic activity recorded by simultaneous EEG and MEG. Salustri C, et al. **Electroencephalogr Clin Neurophysiol** 1989 Dec; 73(6):473–8

Quantitative EEG analysis of carbamazepine effects on amygdaloid kindled seizures in cats. So N, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jul;76(1):63–72

Factors affecting interictal spike discharges in adults with epilepsy. Sundaram M, et al. **Electroencephalogr Clin Neurophysiol** 1990 Apr; 75(4):358–60

Electrical stimulation of the human brain in epilepsy. Bernier GP, et al. **Epilepsia** 1990 Sep–Oct;31(5):513–20

Leisure time habits and physical fitness in adults with epilepsy. Bjørholt PG, et al. **Epilepsia** 1990 Jan–Feb; 31(1):83–7

Electroencephalographic study of the GABA–withdrawal syndrome in rats. Brailowsky S, et al. **Epilepsia** 1990 Jul–Aug;31(4):369–77

Differentiation of epileptic from nonepileptic head drops in children. Brunquell P, et al. **Epilepsia** 1990 Jul–Aug; 31(4):401–5

Psychopathology and limbic epilepsy: relationship to seizure variables and neuropsychological function. Csernansky JG, et al. **Epilepsia** 1990 May–Jun;31(3):275–80

Effect of macular and peripheral retina coagulation on photosensitive epilepsy in the forebrain bisected baboon, Papio papio. Fukuda H, et al. **Epilepsia** 1989 Sep–Oct; 30(5):623–30

Neuroendocrinology and limbic epilepsy: relationships to psychopathology, seizure variables, and neuropsychological function. Leiderman DB, et al. **Epilepsia** 1990 May–Jun;31(3):270–4

Ictal characteristics of cryptogenic partial epilepsies in infancy. Luna D, et al. **Epilepsia** 1989 Nov–Dec; 30(6):827–32

Effect of physical training on aerobic capacity, seizure occurrence, and serum level of antiepileptic drugs in adults with epilepsy. Nakken KO, et al. **Epilepsia** 1990 Jan–Feb; 31(1):88–94

Long–term effects of continual intake of phenobarbital on the spontaneously epileptic rat. Serikawa T, et al. **Epilepsia** 1990 Jan–Feb;31(1):9–14

Effects of repetitive activation and changes in external ionic environment on hippocampal CA1 pyramidal cell afterhyperpolarizations. Tancredi V, et al. **Epilepsia** 1990 Mar–Apr;31(2):123–30

Modulation of generalized spike–and–wave discharges during sleep by cyclic alternating pattern. Terzano MG, et al. **Epilepsia** 1989 Nov–Dec;30(6):772–81

Nocturnal paroxysmal dystonia with short–lasting attacks: three cases with evidence for an epileptic frontal lobe origin of seizures. Tinuper P, et al. **Epilepsia** 1990 Sep–Oct; 31(5):549–56

Increased postsynaptic excitability in hippocampal slices from the tottering epileptic mutant mouse. Kostopoulos G, et al. **Epilepsy Res** 1990 May–Jun;6(1):49–55

Effect of APV and ketamine on epileptiform activity in the CA1 and CA3 regions of the hippocampus. Lee WL, et al. **Epilepsy Res** 1990 Jul;6(2):87–94

The effects of baclofen and pertussis toxin on epileptiform activity induced in the hippocampal slice by magnesium depletion. Lewis DV, et al. **Epilepsy Res** 1989 Sep–Oct; 4(2):109–18

Hippocampal epileptiform activity induced by magnesium–free medium: differences between areas CA1 and CA2–3. Lewis DV, et al. **Epilepsy Res** 1990 Jul; 6(2):95–101

Suppression of motor seizures after specific thalamotomy in chronic epileptic monkeys. Mondragon S, et al. **Epilepsy Res** 1990 Mar;5(2):137–45

Regional brain [3H]muscimol binding in kindled rat brain: a quantitative autoradiographic examination. Nobrega JN, et al. **Epilepsy Res** 1990 Jul;6(2):102–9

'Eating epilepsy'—a reappraisal. Senanayake N. **Epilepsy Res** 1990 Jan–Feb;5(1):74–9

Model of spontaneous hippocampal epilepsy in the anesthetized rat: electrographic, [K+]0, and [Ca2+]0 response patterns. Stringer JL, et al. **Epilepsy Res** 1989 Nov–Dec;4(3):177–86

Folates: epileptogenic effects and enhancing effects on [3H]TBOB binding to the GABAA–receptor complex. Van Rijn CM, et al. **Epilepsy Res** 1990 Apr;5(3):199–208

Benign partial epilepsy and related conditions: multifactorial pathogenesis with hereditary impairment of brain maturation. Doose H, et al. **Eur J Pediatr** 1989 Dec; 149(3):152–8 (71 ref.)

Palinopsia as an epileptic phenomenon. Lefèbre C, et al. **Eur Neurol** 1989;29(6):323–7

Suppression of epileptiform burst discharges in CA3 neurons of rat hippocampal slices by the organic calcium channel blocker, verapamil. Aicardi G, et al. **Exp Brain Res** 1990; 81(2):288–96

Optical recording of epileptiform voltage changes in the neocortical slice. Albowitz B, et al. **Exp Brain Res** 1990; 81(2):241–56

Propagation velocity of epileptiform activity in the hippocampus. Holsheimer J, et al. **Exp Brain Res** 1989; 77(1):69–78

Cholinergic modulation of hippocampal epileptic activity in vitro. Yaari Y, et al. **Experientia Suppl** 1989;57:150–8

Clinical and electrophysiological effects from treatment of epileptic patients (a long–term study). Baykoushev S, et al. **Folia Med (Plovdiv)** 1988;30(1):5–10

Neuropsychological correlates of subclinical paroxysmal EEG activity in children with epilepsy. 1: Qualitative features (generalized and focal abnormalities). Brinciotti M, et al. **Funct Neurol** 1989 Jul–Sep;4(3):235–9

Neuropsychological correlates of subclinical paroxysmal EEG activity in children with epilepsy. 2: Quantitative aspects. Matricardi M, et al. **Funct Neurol** 1989 Jul–Sep; 4(3):241–6

Antiepileptic effects of cerebellar nucleus dentatus electrical stimulation under different conditions of brain epileptisation. Shandra AA, et al. **Indian J Exp Biol** 1990 Feb;28(2):158–61

Endogenous opioid peptides and epilepsy. Ramabadran K, et al. **Int J Clin Pharmacol Ther Toxicol** 1990 Feb; 28(2):47–62 (174 ref.)

Reversible changes of somatosensory–evoked potentials in a child with alternating hemiplegia [letter] Imai T, et al. **J Child Neurol** 1990 Jan;5(1):71–2

Pathogenesis and significance of abnormal nonepileptiform rhythms in the EEG. Schaul N. **J Clin Neurophysiol** 1990 Apr;7(2):229–48 (71 ref.)

Activation of epileptic foci by transcranial magnetic stimulation: effects on secretion of prolactin and luteinizing hormone. Hufnagel A, et al. **J Neurol** 1990 Jul;237(4):242–6

High–frequency components in epileptiform EEG. Huang CM, et al. **J Neurosci Methods** 1989 Dec;30(3):197–201

Cardiac dysfunction during seizures and the sudden epileptic death syndrome. Oppenheimer S. **J R Soc Med** 1990 Mar; 83(3):134–6 (18 ref.)

Sensitivity of spontaneously epileptic rats to external stimuli that induce seizures. Asano Y, et al. **Jikken Dobutsu** 1990 Apr;39(2):207–12

Inositol trisphosphate (IP3) receptors and epileptic seizure. Imazawa M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):465–8

Basic mechanism of epileptogenicity—consideration from studies of acute kindling. Jibiki I, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):451–3 (9 ref.)

Dynamic EEG topography in epileptic seizures. Kanazawa O, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):544–5

Composed dynamic topography for spike and sharp wave. Kowada M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):369–72

Seizure–triggering mechanisms in the kindling model of epilepsy: collapse of GABA–mediated inhibition and activation of NMDA receptors. Morimoto K. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):459–63

The GABAergic role of the epileptogenesis in the El mouse. Murashima YL, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):557–8

Psychosis of epilepsy—an approach to a biological basis for postictal and interictal psychoses. Sato M. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):405–10 (28 ref.)

The seizure mechanisms of an epileptic mutant animal. Suzuki J, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):455–7

Behavioural characteristics of wild jumping or running episodes in the double mutant spontaneously epileptic rat. Asano Y, et al. **Lab Anim** 1990 Apr;24(2):131–6

Effects of GABA–ergic agents on spontaneous non–convulsive epilepsy, EEG and behaviour, in the WAG/RIJ inbred strain of rats. Peeters BW, et al. **Life Sci** 1989;45(13):1171–6

Analysis of the multi–channel epileptiform EEG using the Markov chains formalism. Penczek P, et al. **Methods Inf Med** 1989 Jul;28(3):160–7

Versive eye movements elicited by cortical stimulation of the human brain. Godoy J, et al. **Neurology** 1990 Feb; 40(2):296–9

Reflex seizures induced by calculation, card or board games, and spatial tasks: a review of 25 patients and delineation of the epileptic syndrome. Goossens LA, et al. **Neurology** 1990 Aug;40(8):1171–6

Ipsiversive eye deviation and epileptic nystagmus. Tusa RJ, et al. **Neurology** 1990 Apr;40(4):662–5

Characterization of GABAergic seizure regulation in the midline thalamus. Miller JW, et al. **Neuropharmacology** 1990 Jul;29(7):649–55

Opposite effects of stimulation of D1 and D2 dopamine receptors on the expression of motor seizures in mouse and rat. al–Tajir G, et al. **Neuropharmacology** 1990 Jul; 29(7):657–61

Localization of epileptogenic foci using a new signal analytical approach. Pijn JP, et al. **Neurophysiol Clin** 1990 Apr;20(1):1–11

Synchronization of epileptiform bursts induced by 4–aminopyridine in the in vitro hippocampal slice preparation. Ives AE, et al. **Neurosci Lett** 1990 May 4; 112(2–3):239–45

Endogenous adenosine can reduce epileptiform activity in the human epileptogenic cortex maintained in vitro. Kostopoulos G, et al. **Neurosci Lett** 1989 Nov 20; 106(1–2):119–24

Involvement of non–NMDA receptors in picrotoxin–induced epileptiform activity in the hippocampus. Lee WL, et al. **Neurosci Lett** 1989 Dec 15;107(1–3):129–34

Epileptiform activity in hippocampal slice cultures with normal inhibitory synaptic drive. Malouf AT, et al. **Neurosci Lett** 1990 Jan 1;108(1–2):76–80

Electrocorticographic characterization of chronic iron-induced epilepsy in rats. Moriwaki A, et al. **Neurosci Lett** 1990 Mar 2;110(1-2):72-6

Increased ectopic action potential generation accompanies epileptogenesis in vitro. Stasheff SF, et al. **Neurosci Lett** 1990 Mar 26;111(1-2):144-50

Consequences of prolonged afferent stimulation of the rat fascia dentata: epileptiform activity in area CA3 of hippocampus. Scharfman HE, et al. **Neuroscience** 1990; 35(3):505-17

Excitatory amino acid blockers differentially affect bursting of in vitro hippocampal neurons in two pharmacological models of epilepsy. Schneiderman JH, et al. **Neuroscience** 1989;31(3):593-603

Epidural peg electrodes for the presurgical evaluation of intractable epilepsy. Barnett GH, et al. **Neurosurgery** 1990 Jul;27(1):113-5

Inhibitory influence of excitatory amino acid antagonists on penicillin-induced epileptiform bursting in rat hippocampal slices. Sagratella S, et al. **Pharmacol Biochem Behav** 1990 Apr;35(4):999-1001

Epilepsy and behaviour of the Mongolian gerbil: an ethological study. Cutler MG, et al. **Physiol Behav** 1989 Oct;46(4):561-6

Genetically epileptic rats show a pronounced intermediate stage of sleep. Gandolfo G, et al. **Physiol Behav** 1990 Jan; 47(1):213-5

Syntactic analysis of the experimental epileptic EEG. Rump S, et al. **Pol J Pharmacol Pharm** 1988 Nov-Dec; 40(6):585-92

Opioid involvement in epileptogenic and neurovisceral activity. Pinsky C, et al. **Prog Clin Biol Res** 1990;328:421-4

Chronic administration of the 5-HT3 receptor antagonist BRL 43694; effects on reflex epilepsy and social behaviour of the Mongolian gerbil. Cutler MG, et al. **Psychopharmacology (Berl)** 1990;101(2):244-9

Epilepsy and sports. van Linschoten R, et al. **Sports Med** 1990 Jul;10(1):9-19 (103 ref.)

Unilateral topical cortical application of penicillin: electrographic aspects. A new complement to an old model. Cukiert A, et al. **Stereotact Funct Neurosurg** 1989; 53(3):202-8

The rhythmic properties of the motor system. Toth S, et al. **Stereotact Funct Neurosurg** 1989;53(2):95-104

Excitatory amino acid receptors in epilepsy. Dingledine R, et al. **Trends Pharmacol Sci** 1990 Aug;11(8):334-8 (35 ref.)

[Gilles de la Tourette syndrome associated with epileptiform discharges: report of three cases] Lin CK, et al. **Acta Paediatr Sin** 1989 Jan-Feb;30(1):61-5 (Eng. Abstr.) **(Chi)**

[A study of reaction time in 120 patients with brain tumor, traumatic intracranial hematoma, cerebrovascular disease and epilepsy] Wang X. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):331-4, 381 (Eng. Abstr.) **(Chi)**

[Effect on electroacupuncture on experimental epilepsy--power spectrum analysis of EEG] He XP, et al. **Sheng Li Hsueh Pao** 1990 Apr;42(2):141-8 (Eng. Abstr.) **(Chi)**

[Effect of the sequelae of acute hypobaric hypoxia on epileptic seizures in laboratory rats. Ontogenic studies] Marel J, et al. **Sb Lek** 1990 Mar;92(2-3):59-63 (Eng. Abstr.) **(Cze)**

[The effect of ethosuximide on epileptic after-discharges induced by thalamic stimulation in young laboratory rats] Marelová D, et al. **Sb Lek** 1990 Mar;92(2-3):64-70 (Eng. Abstr.) **(Cze)**

[Significance of EEG findings in administering anticonvulsant drugs to adults with compensated epilepsy which began in childhood] Chromová L, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(5):611-6 (Eng. Abstr.) **(Cze)**

[Value of the monkey Papio papio for the study of epilepsy] Menini C, et al. **Pathol Biol (Paris)** 1990 Mar;38(3):205-13 (68 ref.) (Eng. Abstr.) **(Fre)**

[Paroxysmal kinesigenic choreoathetosis: autonomic disease or reflex epilepsy?] Cler JM, et al. **Rev Neurol (Paris)** 1990; 146(1):25-9 (Eng. Abstr.) **(Fre)**

[The variability of the number and daily distribution of spike wave seizures in two 24-hour long-term EEG recordings made one shortly after the other] Mayr N, et al. **EEG EMG** 1989 Sep;20(3):185-8 (Eng. Abstr.) **(Ger)**

[Neurophysiologic principles and clinical value of post-convulsive serum prolactin determination in epileptic seizure] Bauer J, et al. **Fortschr Neurol Psychiatr** 1989 Nov; 57(11):457-68 (89 ref.) (Eng. Abstr.) **(Ger)**

[Electrolyte disorders, EEG changes and epileptic seizures in alcohol withdrawal delirium] Schmickaly R, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Dec; 41(12):722-9 (Eng. Abstr.) **(Ger)**

[Epilepsy yesterday, today and tomorrow] Scollo-Lavizzari G. **Schweiz Rundsch Med Prax** 1989 Sep 19;78(38):1015-7 (0 ref.) (Eng. Abstr.) **(Ger)**

[GABA(A) benzodiazepine receptors and epilepsy] Sieghart W. **Wien Klin Wochenschr** 1990 Mar 30;102(7):197-201 (15 ref.) (Eng. Abstr.) **(Ger)**

[Bombesin, dermorphin, physalaemin and sauvagine: effects on superficial and depth EEG tracings in epileptic and non-epileptic rats] de Romanis F, et al. **Clin Ter** 1990 Apr 15;133(1):35-8 (Eng. Abstr.) **(Ita)**

[Usefulness of ambulatory EEG in detecting critical and intercritical events in patients with epilepsy or with suspected epilepsy] Pellegrini A, et al. **Riv Neurol** 1989 Sep-Oct;59(5):167-71 (Eng. Abstr.) **(Ita)**

[A case of epilepsy presenting periodic synchronous discharges and recruiting rhythm for a long time] Mohri Y, et al. **Hokkaido Igaku Zasshi** 1989 Nov;64(6):761-8 (Eng. Abstr.) **(Jpn)**

[Effects of acute hypoxia on the development of corazol-induced seizures] Agadzhanian NA, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):529-31 (Eng. Abstr.) **(Rus)**

[Effects of destruction and activation of limbic structures on formation of convulsive and emotional disorders during picrotoxin kindling] Kryzhanovskiĭ GN, et al. **Biull Eksp Biol Med** 1990 Jun;109(6):531-4 (Eng. Abstr.) **(Rus)**

[Effects of delta sleep-inducing peptide on the intercentral integration during experimental epilepsy] Popova NS, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):147-50 (Eng. Abstr.) **(Rus)**

[Left-handedness and the recognition of the emotional-prosodic characteristics of speech in local brain pathology] TaŁkhan AU. **Fiziol Cheloveka** 1990 Jan-Feb; 16(1):81-7 **(Rus)**

[Effect of electric stimulation of the caudate nucleus on the foci of epileptic activity in the cerebral cortex] Maku lkin RF, et al. **Fiziol Zh** 1989 Nov-Dec;35(6):25-33 (Eng. Abstr.) **(Rus)**

[Spectrum analysis of the EEG in children and adolescents with epilepsy: general characteristics and pathophysiological interpretation of the data] Karlov VA, et al. **Zh Nevropatol Psikhiatr** 1989;89(8):15-9 (Eng. Abstr.) **(Rus)**

[Unilateral epilepsy and the asymmetry of postepileptic sleep] Aslanova MA, et al. **Zh Vyssh Nerv Deiat** 1990 Mar-Apr; 40(2):362-8 (Eng. Abstr.) **(Rus)**

[Epilepsy. Recent advances in the knowledge of its physiopathology] Velasco M, et al. **Gac Med Mex** 1989 Sep-Oct;125(9-10):249-69 (89 ref.) **(Spa)**

[EEG with peak focal discharges in children without epileptic crises] Pascual Pascual SI, et al. **Neurologia** 1986 Jul-Aug;1(4):147-9 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Anticonvulsant prophylaxis in neurosurgery. North JB. **Br J Neurosurg** 1989;3(4):425-7

Comparison of the anticonvulsant activities of ethosuximide, valproate, and a new anticonvulsant, thiobutyrolactone. Ferrendelli JA, et al. **Epilepsia** 1989 Sep-Oct;30(5):617-22

Antiepileptic properties of cerebrospinal fluid after activation of the antiepileptic system of the brain. Kryzhanovsky GN, et al. **Epilepsia** 1989 Sep-Oct;30(5):631-5

PSYCHOLOGY

Life events and seizure frequency in epileptics: a follow-up study. Rajna P, et al. **Acta Med Hung** 1989;46(2-3):169-87

Evoked and psychogenic epileptic seizures: II. Inhibition. Brown SW, et al. **Acta Neurol Scand** 1989 Dec;80(6):541-7

Personality characteristics and epilepsy. Sørensen AS, et al. **Acta Psychiatr Scand** 1989 Dec;80(6):620-31

Autoscopic phenomena with seizures. Devinsky O, et al. **Arch Neurol** 1989 Oct;46(10):1080-8 (47 ref.)

Epilepsy and suicide [letter; comment] Leviton A, et al. **Arch Neurol** 1990 Apr;47(4):381-2 Comment on: Arch Neurol 1989 Oct;46(10):1065-8.

Causative factors for suicide attempts by overdose in epileptics [see comments] Mendez MF, et al. **Arch Neurol** 1989 Oct;46(10):1065-8 Comment in: Arch Neurol 1990 Apr;47(4):381-2.

Sexual dysfunction in male and female patients with epilepsy: a study of 86 outpatients. Jensen P, et al. **Arch Sex Behav** 1990 Feb;19(1):1-14

Psychosocial predictors of psychopathology in epilepsy. Hermann BP, et al. **Br J Psychiatry** 1990 Jan;156:98-105

Epilepsy: the myth of a contagious disease. Awaritefe A. **Cult Med Psychiatry** 1989 Dec;13(4):449-56

Psychosocial well-being and epilepsy: an empirical study. Collings JA. **Epilepsia** 1990 Jul-Aug;31(4):418-26

Emotional and social reactions of children to epilepsy in a parent. Aldenkamp AP, et al. **Fam Pract** 1990 Jun; 7(2):110-5

Social aspects of epilepsy in Kuwait. el-Hilu SM. **Int J Soc Psychiatry** 1990 Spring;36(1):68-73

Mental symptoms of epilepsy--in relation to epileptic seizures. Seino M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):439-41

Correlates of wellbeing in a New Zealand epilepsy sample. Collings JA. **N Z Med J** 1990 Jun 27;103(892):301-3

A quantitative approach to measuring the social effects of epilepsy. Chaplin JE, et al. **Neuroepidemiology** 1990; 9(3):151-8

Comparative cognitive effects of anticonvulsants. Meador KJ, et al. **Neurology** 1990 Mar;40(3 Pt 1):391-4

Laughter: nature's epileptoid catharsis. Grumet GW. **Psychol Rep** 1989 Dec;65(3 Pt 2):1059-78 (100 ref.)

Gelastic epilepsy--a case report. Pilo L. **Singapore Med J** 1990 Feb;31(1):78-9

Epilepsy and well-being. Collings JA. **Soc Sci Med** 1990; 31(2):165-70

Generating a model of epileptic stigma: the role of qualitative analysis. Scambler G, et al. **Soc Sci Med** 1990; 30(11):1187-94

The status and validity of accounts obtained at interview: a contrast between two studies of families with a disabled child. West P. **Soc Sci Med** 1990;30(11):1229-39

Learning disabilities and behavioural problems in children with epilepsy. Renier WO. **Wien Klin Wochenschr** 1990 Apr 13;102(8):218-22 (37 ref.)

[Analysis of 38 cases with epilepsy in forensic psychiatric evaluation] Han C. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Dec; 22(6):355-7, 383 (Eng. Abstr.) **(Chi)**

[Epilepsy and the speed of learning motor skills] Preiss J, et al. **Cesk Neurol Neurochir** 1989 Sep;52(5):320-6 (Eng. Abstr.) **(Cze)**

[Psychological disorders in epilepsy] Möller AA. **Fortschr Med** 1990 Feb 20;108(5):82-4 (Eng. Abstr.) **(Ger)**

[Prognostic value of hyperkinetic syndrome in children with epilepsy] Bravidor C, et al. **Kinderarztl Prax** 1990 May; 58(5):261-6 (Eng. Abstr.) **(Ger)**

[Affective disorders in epilepsy] Erkwoh R. **Nervenarzt** 1989 Oct;60(10):628-32 **(Ger)**

[Function and structure of families with an epileptic child] Tatzer E, et al. **Wien Klin Wochenschr** 1990 Apr 13; 102(8):223-7 (Eng. Abstr.) **(Ger)**

[Neuropsychological and psychiatric problems in epileptic children] Nagahata M. **No To Hattatsu** 1990 Mar; 22(2):143-8 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Psychosocial problems of epileptic children and their families] Komender J. **Psychiatr Pol** 1989 Mar-Apr; 23(2):104-10 (Eng. Abstr.) **(Pol)**

[The role of psychotherapy in patients with epilepsy] Pawliczak G. **Psychiatr Pol** 1989 Jul-Aug;23(4):328-34 (15 ref.) **(Pol)**

[Attitudes toward epilepsy in Majorca] García-Mas A, et al. **Arch Neurobiol (Madr)** 1989 Jul-Aug;52(4):178-82 (21 ref.) (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Appearing and disappearing CT scan abnormalities in epilepsy in India--an enigma. Bansal BC, et al. **J Neurol Neurosurg Psychiatry** 1989 Oct;52(10):1185-7

[Value of roentgen pictures in epilepsy] Czochańska J, et al. **Neurol Neurochir Pol** 1989 Jan;23(1):84 **(Pol)**

RADIONUCLIDE IMAGING

Localization of epileptic foci with postictal single photon emission computed tomography. Rowe CC, et al. **Ann Neurol** 1989 Nov;26(5):660-8

Hexa-methyl-propylene-amine-oxime (HMPAO) single photon emission computed tomography (SPECT) in epilepsy. Podreka I, et al. **Brain Topogr** 1988 Fall;1(1):55-60

Possible extension of spect cerebral imaging in the investigation of epilepsy using radioiodinated benzodiazepines. Maddalena DJ, et al. **Clin Exp Neurol** 1989;26:151-9

Quantitative analysis of 99mTc-HMPAO kinetics in epilepsy. Kuikka JT, et al. **Eur J Nucl Med** 1990;16(4-6):275-83

Epilepsy: the use of oxygen-15-labeled gases. Franck G, et al. **Semin Neurol** 1989 Dec;9(4):307-16 (75 ref.)

RADIOTHERAPY

Relief of epilepsy by radiosurgery of cerebral arteriovenous malformations. Heikkinen ER, et al. **Stereotact Funct Neurosurg** 1989;53(3):157-66

[Proton stereotaxic therapy of epilepsy due to cerebral arteriovenous aneurysms] Konnov BA, et al. **Med Radiol (Mosk)** 1990 May;35(5):3-5 (Eng. Abstr.) **(Rus)**

REHABILITATION

Relationship between a driver's license and employment situation for people with epilepsy. Sasagawa M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):548-9

[Vocational preparation and education of adolescent patients with epilepsy] Lipinski CG. **Wien Klin Wochenschr** 1990 Apr 13;102(8):213-7 (Eng. Abstr.) **(Ger)**

SURGERY

Bilateral somatosensory evoked potentials in four patients with long-standing surgical hemispherectomy. Mauguière F, et al. **Ann Neurol** 1989 Dec;26(6):724-31

Corpus callosum stimulation and stereotactic callosotomy in the management of refractory generalized epilepsy. Preliminary communication. Marino Júnior R, et al. **Arq Neuropsiquiatr** 1989 Sep;47(3):320-5

Modified hemispherectomy for epilepsy: early results in 10 cases [see comments] Beardsworth ED, et al. **Br J Neurosurg** 1988;2(1):73-84 Comment in: Br J Neurosurg 1989;3(1):137.

Modified hemispherectomy for epilepsy: early results in 10 cases [letter; comment] Maroun FB, et al. **Br J Neurosurg** 1989;3(1):137 Comment on: Br J Neurosurg 1988;2(1):73-84.

Hemispheric specialization for emotional expression: a reexamination of results from intracarotid administration of sodium amobarbital. Lee GP, et al. **Brain Cogn** 1990 Mar;12(2):267-80

Pathophysiological mechanisms and results of stereotactic treatment of generalized epilepsy. Cchenkeli SA, et al. **Bratisl Lek Listy** 1989 Aug;90(8):560-5 **(Eng, Slo)**

Anticonvulsant therapy increases fentanyl requirements during anaesthesia for craniotomy. Tempelhoff R, et al. **Can J Anaesth** 1990 Apr;37(3):327–32

Callosal section for epilepsy and the avoidance of doing everything possible. Taylor DC. **Dev Med Child Neurol** 1990 Mar;32(3):267–70

Extent of resection in temporal lobectomy for epilepsy. I. Interobserver analysis and correlation with seizure outcome. Awad IA, et al. **Epilepsia** 1989 Nov–Dec; 30(6):756–62

Extent of resection in temporal lobectomy for epilepsy. II. Memory changes and neurologic complications. Katz A, et al. **Epilepsia** 1989 Nov–Dec;30(6):763–71

Anterior temporal lobectomy and medically refractory temporal lobe epilepsy of childhood. Mizrahi EM, et al. **Epilepsia** 1990 May–Jun;31(3):302–12

Hemimegalencephaly and intractable epilepsy: benefits of hemispherectomy. Vigevano F, et al. **Epilepsia** 1989 Nov–Dec;30(6):833–43

Evolution of neuropsychological changes after partial callosotomy in intractable epilepsy. Provinciali L, et al. **Epilepsy Res** 1990 Jul;6(2):155–65

Seizure suppression in kindling epilepsy by intrahippocampal locus coeruleus grafts: evidence for an alpha-2–adrenoreceptor mediated mechanism. Bengzon J, et al. **Exp Brain Res** 1990;81(2):433–7

Electroencephalography for epilepsy surgery. Schachter SC. **Int Anesthesiol Clin** 1990 Summer;28(3):139–42 (23 ref.)

Management of cerebral hemispherectomy in children. Brian JE Jr, et al. **J Clin Anesth** 1990 Mar–Apr;2(2):91–5

Categorization of disoriented faces in the cerebral hemispheres of normal and commissurotomized subjects. Sergent J, et al. **J Exp Psychol [Hum Percept]** 1989 Nov; 15(4):701–10

Surgical treatment of epilepsy: three- to six-year follow-up of eleven patients with pharmacologically uncontrolled complex partial seizures. Ferriss GS, et al. **J La State Med Soc** 1990 Jun;142(6):41–7

Postoperative CT contrast enhancement following lobectomy for epilepsy. Laohaprasit V, et al. **J Neurosurg** 1990 Sep; 73(3):392–5

Results of reoperation for failed epilepsy surgery. Wyler AR, et al. **J Neurosurg** 1989 Dec;71(6):815–9

Surgical management of epilepsy associated with cerebral arteriovenous malformations. Yeh HS, et al. **J Neurosurg** 1990 Feb;72(2):216–23

Memory and temporal lobe surgery: a review. Channon S, et al. **J R Soc Med** 1990 Feb;83(2):100–3 (30 ref.)

National Institutes of Health Consensus Conference. Surgery for epilepsy. **JAMA** 1990 Aug 8;264(6):729–33 (0 ref.)

Surgical treatment of epilepsy. Polkey CE. **Lancet** 1990 Sep 1;336(8714):553–5

Stereotactic surgical treatment of epilepsy [editorial; comment] Grossman RG. **Mayo Clin Proc** 1990 Aug; 65(8):1150–1 Comment on: Mayo Clin Proc 1990 Aug;65(8):1053–60.

Surgery for refractory epilepsy. Mackenzie RA, et al. **Med J Aust** 1990 Jul 16;153(2):69–72, 76

Surgery for epilepsy. **Natl Inst Health Consensus Dev Conf Consensus Statement** 1990 Mar 19–21;8(2):1–20 (0 ref.)

The intracarotid amobarbital procedure as a predictor of memory failure following unilateral temporal lobectomy. Loring DW, et al. **Neurology** 1990 Apr;40(4):605–10

Intraoperative determination of the extent of corpus callosotomy for epilepsy: two simple techniques. Awad IA, et al. **Neurosurgery** 1990 Jan;26(1):102–5; discussion 105–6

Corpus callosotomy for refractory seizures in a patient with cortical heterotopia: case report. Stearns M, et al. **Neurosurgery** 1989 Oct;25(4):633–5; discussion 635–6

Surgery for intractable epilepsy: issues and outcome. Duchowny MS. **Pediatrics** 1989 Nov;84(5):886–94 (89 ref.)

Neurosurgery of epilepsy. Smith MC, et al. **Semin Neurol** 1989 Sep;9(3):231–48 (53 ref.)

Selective electroencephalograph-guided microsurgical callosotomy for refractory generalized epilepsy. Marino R Jr, et al. **Surg Neurol** 1990 Oct;34(4):219–28

Epilepsy surgery in children. Holmes GL, et al. **Wien Klin Wochenschr** 1990 Mar 30;102(7):189–97 (61 ref.)

[Remarks on callosotomy in the treatment of drug-resistant epilepsy] Papo I, et al. **Neurochirurgie** 1989;35(3):169–76 (Eng. Abstr.) **(Fre)**

[Surgical treatment of drug resistant epilepsy] Stefan H, et al. **Fortschr Med** 1990 Feb 20;108(5):85–8 (17 ref.) (Eng. Abstr.) **(Ger)**

[Corpus callosotomy in intractable epilepsy] Constantini S, et al. **Harefuah** 1989 Dec 15;117(12):433–5 (Eng. Abstr.) **(Heb)**

THERAPY

Treatment of "intractable childhood epilepsy" with high doses of intravenous gamma-globulins. Spina A, et al. **Acta Neurol (Napoli)** 1989 Dec;11(6):415–22

Improvement of modern treatment and outcome in childhood epilepsy in Asia. Chi CS. **Acta Paediatr Jpn Overseas Ed** 1989 Jun;31(3):278–85 (31 ref.)

Clinical course and prognosis of childhood epilepsy. Oka E, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Jun;31(3):259–66

Compliance with a standard for the emergency department management of epileptics who present after an uncomplicated convulsion. Baraff LJ, et al. **Ann Emerg Med** 1990 Apr;19(4):367–72

Intractable epilepsy. Bwala SA, et al. **Br J Clin Pract** 1990 Mar;44(3):106–10

Management of seizures. Riela AR. **Crit Care Clin** 1989 Oct; 5(4):863–79 (30 ref.)

Refractory epilepsy: an evaluation of psychological methods in outpatient management. Gillham RA. **Epilepsia** 1990 Jul–Aug;31(4):427–32

Sepulveda Epilepsy Education: the efficacy of a psychoeducational treatment program in treating medical and psychosocial aspects of epilepsy. Helgeson DC, et al. **Epilepsia** 1990 Jan–Feb;31(1):75–82

Randomized trial of a program to enhance the competencies of children with epilepsy. Lewis MA, et al. **Epilepsia** 1990 Jan–Feb;31(1):101–9

An audit of epilepsy in general practice [see comments] Presley P. **Practitioner** 1989 Jul 8;233(1472):1009, 1011–2, 1014 Comment in: Practitioner 1989 Sep 8;233(1474):1129.

Epilepsy "cure" [letter; comment] Pavlakis SG. **Science** 1989 Nov 17;246(4932):874 Comment on: Science 1989 Sep 29;245(4925):1444–5.

[Inhibitory effect of electroacupuncture on cAMP induced ECOG epileptiform waves] Lou ZC. **Chen Tzu Yen Chiu** 1989;14(3):319–22, 314 (Eng. Abstr.) **(Chi)**

[Intravenous immunoglobulin in the treatment of malignant epilepsy in children] Sterio M, et al. **Wien Klin Wochenschr** 1990 Apr 13;102(8):230–3 (Eng. Abstr.) **(Ger)**

[3 case reports of patients with malignant epilepsy treated with high doses of intravenous immunoglobulin] Sterio M, et al. **Med Pregl** 1989;42(9–10):332–4 (Eng. Abstr.) **(Ser)**

VETERINARY

Delayed postnatal behavioral development in spontaneously epileptic rats and tremor rats, and poor operant performance in spontaneously epileptic rats. Asano Y, et al. **Jikken Dobutsu** 1990 Jan;39(1):69–74

EPILEPSY, ABDOMINAL see **EPILEPSY, TEMPORAL LOBE**

EPILEPSY, FOCAL

Partial seizures. Rao GP. **Indian Pediatr** 1990 Jan; 27(1):99–104 (4 ref.)

Anatomy, physiology, and pathology of epilepsy. Meldrum BS. **Lancet** 1990 Jul 28;336(8709):231–4 (30 ref.)

BLOOD

Hormonal disregulation and catamenial epilepsy. Narbone MC, et al. **Funct Neurol** 1990 Jan–Mar;5(1):49–53

Diurnal variation of carbamazepine and carbamazepine-10,11-epoxide in plasma and saliva in children with epilepsy: a comparison between conventional and slow-release formulations. Eeg-Olofsson O, et al. **J Child Neurol** 1990 Apr;5(2):159–65

Pharmacokinetic study of slow-release preparation of sodium valproate (KW-6066N): multiple dose administration test and the steady-state serum level profiles in epileptic patients. Takeda A, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):515–6

CEREBROSPINAL FLUID

A study on opioid peptides in CSF of patients with epilepsy. Cheng JG, et al. **Epilepsy Res** 1990 Jul;6(2):141–5

CHEMICALLY INDUCED

Early postoperative seizures in neurosurgical patients administered atracurium and isoflurane. Beemer GH, et al. **Anaesth Intensive Care** 1989 Nov;17(4):504–9

Complex partial status epilepticus associated with cyclosporin A therapy. Appleton RE, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep;52(9):1068–71

Tannins inhibit the occurrence of epileptic focus induced by FeCl3 injection in rats. Yokoi I, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):552–3

Cocaine-induced seizures. Pascual-Leone A, et al. **Neurology** 1990 Mar;40(3 Pt 1):404–7

[Suspected convulsion-inducing effect of chloroquine (Resochin)] Fröscher W, et al. **Nervenarzt** 1989 Dec; 60(12):762–3 **(Ger)**

CLASSIFICATION

The localization-related epilepsies: some problems with subclassification. Watanabe K. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):471–5 (9 ref.)

COMPLICATIONS

Status epilepticus characterized by repetitive asymmetrical atonia: two cases accompanied by partial seizures. Kanazawa O, et al. **Epilepsia** 1990 Sep–Oct;31(5):536–43

Prolonged intermittent drooling and oromotor dyspraxia in benign childhood epilepsy with centrotemporal spikes. Roulet E, et al. **Epilepsia** 1989 Sep–Oct;30(5):564–8

Unilateral cerebellar damage in focal epilepsy [letter] Duncan R, et al. **J Neurol Neurosurg Psychiatry** 1990 May; 53(5):436–7

[Reversible frontal syndrome and epilepsy in an 8-year-old boy] Jambaque I, et al. **Arch Fr Pediatr** 1989 Aug–Sep; 46(7):525–9 (Eng. Abstr.) **(Fre)**

[Partial status epilepticus during non-ketotic hyperglycemia (letter)] Karmochkine M, et al. **Presse Med** 1990 May 5; 19(18):869 **(Fre)**

[Case report of a boy with Prader-Willi syndrome and focal epilepsy] Vranješević D, et al. **Srp Arh Celok Lek** 1989 May–Jun;117(5–6):351–9 (Eng. Abstr.) **(Scc)**

DIAGNOSIS

Long-term EEG-video-audio monitoring: detection of partial epileptic seizures and psychogenic episodes by 24-hour EEG record review. Pierelli F, et al. **Epilepsia** 1989 Sep–Oct;30(5):513–23

Neuroimaging in patients with seizures of probable frontal lobe origin. Swartz BE, et al. **Epilepsia** 1989 Sep–Oct; 30(5):547–58

Magnetic resonance imaging in refractory focal epilepsy with normal CT scans. Froment JC, et al. **J Neuroradiol** 1989 Dec;16(4):285–91 **(Eng, Fre)**

Indications of radiological explorations in partial epilepsy of childhood. Mancini J, et al. **J Neuroradiol** 1989 Dec; 16(4):301–7 (6 ref.) **(Eng, Fre)**

Magnetic resonance imaging in partial epilepsy of childhood. Seventy-nine cases. Peretti P, et al. **J Neuroradiol** 1989 Dec;16(4):308–16 **(Eng, Fre)**

The role of neuroimaging in the clinical practice of epilepsy—with a special reference to the correlative studies on the epileptogenic foci. Asakura T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):401–2

Relationship between CT-findings and electrical focus in epileptic patients. Kyoi K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):337–47

Two cases of epilepsia partialis continua associated with head trauma. Nobuhara K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):526–7

Lennox-Gastaut syndrome: a developmental study. Ohtsuka Y, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):482–4

Epileptogenic focus and MRI—the study of MRI and EEG of no relation to epileptogenic focus. Uetsuhara K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):389–92

Magnetoencephalography in prospective clinical routine. Lefebre C, et al. **Psychiatry Res** 1989 Sep;29(3):375–6

Advantages of magnetoencephalography (AC and DC) in focal and generalized brain activity. Schüler P, et al. **Psychiatry Res** 1989 Sep;29(3):377

[Improved diagnosis using biomagnetic fields. Electromagnetic fields of the brain—diagnosis of a neurologic focus] Schwing C. **Fortschr Med** 1989 Sep 20; 107(27):75–6 **(Ger)**

[The significance of EEG findings in somnambulism] Fehlow P. **Padiatr Grenzgeb** 1990;29(1):53–7 (Eng. Abstr.) **(Ger)**

[Psychomotor seizures in childhood and their differential diagnosis] Vassella F. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):767–70 (Eng. Abstr.) **(Ger)**

[The complex diagnosis of an epileptogenic focus] Grigoruk PT, et al. **Zh Vopr Neirokhir** 1990 Jan–Feb;(1):7–8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Organic mania induced by phenytoin: a case report. Patten SB, et al. **Can J Psychiatry** 1989 Nov;34(8):827–8

Clinical relevance of therapeutic drug level estimation with respect to clonazepam and carbamazepine: preliminary report. Beran RG, et al. **Clin Exp Neurol** 1987;24:91–5

Intravenous midazolam suppression of pentylenetetrazol-induced epileptogenic activity in a porcine model. Jaimovich DG, et al. **Crit Care Med** 1990 Mar;18(3):313–6

Long-term evaluation of once daily vigabatrin in drug-resistant partial epilepsy. Ben-Menachem E, et al. **Epilepsy Res** 1990 Apr;5(3):240–6

Initiation of carbamazepine therapy in partial epilepsy: a regional cerebral blood flow study. Valmier J, et al. **Epilepsy Res** 1990 Apr;5(3):229–34

Effectiveness and plasma levels of sodium valproate monotherapy in the treatment of epilepsies in children: a further study. Shirai H, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):517–8

Analyses of epileptics who have been intractable but entered prolonged remission afterwards without medications. Ueda S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):507–8

Gabapentin in partial epilepsy. UK Gabapentin Study Group. **Lancet** 1990 May 12;335(8698):1114–7

[A barbiturate derivative-induced depressive syndrome in a 9-year-old boy with complex focal seizures and secondary generalization—a case report] Hässler F. **Psychiatr Neurol Med Psychol (Leipz)** 1989 Dec; 41(12):737–40 (Eng. Abstr.) **(Ger)**

[Effect of a Ca-channel blocker, ryodipine, on focal and generalized epileptic activity] Karpova MN, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):553–5 (Eng. Abstr.) **(Rus)**

[An electrophysiological analysis of the action of an antioxidant of the 3-hydroxypyridine class on the cerebral epileptic activity in rats with a cobalt-induced focus] Aliev AN, et al. **Farmakol Toksikol** 1990 Jan–Feb;53(1):20–2 (Eng. Abstr.) **(Rus)**

[Status of complex partial crisis as a response to the treatment with oral carbamazepine (letter)] Mauri Llerda JA, et al. **Neurologia** 1989 Jan–Feb;4(1):33–5 **(Spa)**

EPIDEMIOLOGY

Is there a partial benign epilepsy in infancy? Dulac O, et al. **Epilepsia** 1989 Nov–Dec;30(6):798–801

Partial epilepsy with seizures appearing in the first three years of life. Oller–Daurella L, et al. **Epilepsia** 1989 Nov–Dec; 30(6):820–6

ETIOLOGY

Functional brain imaging in cavernous hemangioma: demonstration of the anatomic lesion as the seizure focus. Timmons JH, et al. **Clin Nucl Med** 1989 Sep;14(9):696–7

Chronic focal epilepsy induced by microinjection of tetanus toxin into the cat motor cortex. Louis ED, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):548–57

Focal epilepsy as a possible sign of transient subclinical ischemia. Cocito L, et al. **Eur Neurol** 1989;29(6):339–44 (29 ref.)

Juvenile diabetes manifesting as epilepsia partialis continua. Sabharwal RK, et al. **J Assoc Physicians India** 1989 Sep; 37(9):603–4

Recurrent generalized seizures of long duration [letter] Govil YC, et al. **J Trop Pediatr** 1990 Feb;36(1):46–8

Ring or disc–like enhancing lesions in partial epilepsy in India. Kumar R, et al. **J Trop Pediatr** 1990 Jun;36(3):131–4

Comparative studies with MRI, SPECT, and CT in patients with epilepsy of unknown origin. Berlit P, et al. **Psychiatry Res** 1989 Sep;29(3):459–60

[Focal motor crises: a transitory ischemic attack?] Demiati M, et al. **Rev Neurol (Paris)** 1989;145(10):728–31 (9 ref.) (Eng. Abstr.) **(Fre)**

[Pseudohypoparathyroidism: a rare, ambiguous "seizure disorder"] Schwartz G, et al. **Med Klin** 1990 Mar 15; 85(3):163–5 **(Ger)**

[Granuloma in cerebral parenchyma. A human model for the study of epilepsy] Sotelo–Morales J, et al. **Gac Med Mex** 1989 Jan–Feb;125(1–2):31–5; discussion 36 **(Spa)**

[Speech blockade as an expression of partial crisis status. Initial manifestation of hyperosmolar diabetic decompensation] Gil–Néciga E, et al. **Neurologia** 1987 Jan–Feb;2(1):38–40 (Eng. Abstr.) **(Spa)**

METABOLISM

Subcortical metabolic alterations in partial epilepsy. Sperling MR, et al. **Epilepsia** 1990 Mar–Apr;31(2):145–55

A proton magnetic resonance spectroscopy study of focal epilepsy in humans. Matthews PM, et al. **Neurology** 1990 Jun;40(6):985–9

PATHOLOGY

Mossy fiber synaptic reorganization in the epileptic human temporal lobe. Sutula T, et al. **Ann Neurol** 1989 Sep; 26(3):321–30

Neurocysticercosis with rare presentations. Mandal DK, et al. **J Indian Med Assoc** 1989 Jun;87(6):142–4

Pathologic findings in brains of patients with focal epileptic seizures who had a craniotomy procedure. Wee AS, et al. **J Miss State Med Assoc** 1990 Jul;31(7):219–21

[Partial epilepsy in children in Algeria. Electroclinical and tomodensitometric study] Slimani S, et al. **Acta Neurol Belg** 1989 Mar–Apr;89(2):81–6 (Eng. Abstr.) **(Fre)**

[Contribution of magnetic resonance imaging in 100 cases of refractory partial epilepsy with normal CT scans] Convers P, et al. **Rev Neurol (Paris)** 1990;146(5):330–7 (56 ref.) (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Partial seizures with visual disturbance treated by radiotherapy of cavernous hemangioma. Lance JW, et al. **Ann Neurol** 1989 Dec;26(6):782–5

Phase space topography and the Lyapunov exponent of electrocorticograms in partial seizures. Iasemidis LD, et al. **Brain Topogr** 1990 Spring;2(3):187–201

Whistling epilepsy: a case report. Tan E, et al. **Clin Electroencephalogr** 1990 Apr;21(2):110–1

Neuromagnetic field modeling of multiple brain regions producing interictal spikes in human epilepsy. Barth DS, et al. **Electroencephalogr Clin Neurophysiol** 1989 Nov; 73(5):389–402

The influence of vigilance states on paroxysmal EEG activities and clinical seizures in children. Billard C, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar; 75(3):127–35

Chronic effects of phenytoin on brain–stem auditory evoked potentials in man. Chan YW, et al. **Electroencephalogr Clin Neurophysiol** 1990 Mar–Apr; 77(2):119–26

Secondary generalization in non–kindled rats following acute administration of GABA–complex and adenosine antagonists. Mingo NS, et al. **Electroencephalogr Clin Neurophysiol** 1990 May; 75(5):444–51

Asymmetry in delta activity in patients with focal epilepsy. Panet–Raymond D, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):474–81

Clinical profile of partial seizures beginning at less than four years of age. Blume WT. **Epilepsia** 1989 Nov–Dec; 30(6):813–9

Partial epilepsies in infancy: a study of 40 cases. Dravet C, et al. **Epilepsia** 1989 Nov–Dec;30(6):807–12

Dipole reversal: an ictal feature of benign partial epilepsy with centrotemporal spikes. Gutierrez AR, et al. **Epilepsia** 1990 Sep–Oct;31(5):544–8

Multidisciplinary analysis of patients with extratemporal complex partial seizures. I. Intertest agreement. Swartz BE, et al. **Epilepsy Res** 1990 Jan–Feb;5(1):61–73

Symptomatology in children with focal sharp waves of genetic origin. Doose H. **Eur J Pediatr** 1989 Dec; 149(3):210–5

Basic mechanisms of focal epilepsies. Jefferys JG. **Exp Physiol** 1990 Mar;75(2):127–62 (237 ref.)

A parieto–occipital generator for P300: evidence from human intracranial recordings. Kiss I, et al. **Int J Neurosci** 1989 Nov;49(1–2):133–9

Epileptic seizures in a patient with mitochondrial myopathy, encephalopathy, lactic acidosis and strokelike episodes (MELAS). Hori A, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):536–7

Anterior–posterior relationships of EEG in photosensitive subjects: coherence and cross–phase–spectral analysis. Takasaka Y, et al. **Jpn J Psychiatry Neurol** 1989 Dec; 43(4):651–63

Three cases with secondary generalized epilepsy caused by frontal organic lesion. Yamashita S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):485–6

Clinical study of epileptic children with history of febrile convulsion. Yamatani M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):490–1

Human hippocampal EEG: effects of behavioral activation. Huh K, et al. **Neurology** 1990 Aug;40(8):1177–81

Focal functional anatomy of dorsolateral frontocentral seizures. Sutherling WW, et al. **Neurology** 1990 Jan; 40(1):87–98

Modulation of experimentally induced epilepsy by intracerebral grafts of fetal GABAergic neurons. Fine A, et al. **Neuropsychologia** 1990;28(6):627–34

[Benign Rolandic epilepsy in children. Topographic EEG analysis] Graf M, et al. **Wien Klin Wochenschr** 1990 Mar 30;102(7):206–10 (Eng. Abstr.) **(Ger)**

[Focal epilepsy: generation and spreading mechanisms in experimental conditions] Pockberger H. **Wien Klin Wochenschr** 1990 Mar 30;102(7):201–5 (6 ref.) (Eng. Abstr.) **(Ger)**

[EEG findings following cerebral surgery] Pittasch D, et al. **Zentralbl Neurochir** 1989;50(2):118–21 (Eng. Abstr.) **(Ger)**

[A case of atonic partial seizure] Miura Y, et al. **No To Hattatsu** 1990 Jan;22(1):66–70 (Eng. Abstr.) **(Jpn)**

[Left–handedness and the recognition of the emotional–prosodic characteristics of speech in local brain pathology] TaLkhan AU. **Fiziol Cheloveka** 1990 Jan–Feb; 16(1):81–7 **(Rus)**

[Effect of low–frequency electric stimulation of the dentate nucleus of the cerebellum on foci of epileptic activity] Shandra AA, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun; (3):24–8 (Eng. Abstr.) **(Rus)**

[Infantile partial epilepsy. Is the "organicity" of this type of epilepsy a not very influential factor in its course? (letter)] Bermejo F, et al. **Neurologia** 1987 Jan–Feb; 2(1):42–4 **(Spa)**

[Partial epilepsy with benign course in childhood. Functional or organic character] Pascual Pascual SI, et al. **Neurologia** 1986 May–Jun;1(3):101–6 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Specific cognitive dysfunction in children with epileptic mothers. Gaily E, et al. **Dev Med Child Neurol** 1990 May; 32(5):403–14

Neuropsychological features of benign partial epilepsy in children. D'Alessandro P, et al. **Ital J Neurol Sci** 1990 Jun; 11(3):265–9

Clinical studies of schizophrenia–like state in epileptic patients. Kido H, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):433–8

Psychological aspects of families with epileptic patients: a study using general health questionnaire. Kugoh T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):550–1

Neuropsychological approach to epilepsy—with special reference to neuropsychological evaluations of the ictal psychosis. Matsuoka H. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):427–31

Cognitive function in children with epilepsy—comparison with other clinical findings concerning epilepsy. Noda M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):528–9

RADIOGRAPHY

Disappearing brain lesions, psychosis and epilepsy: a report of two cases. Feinstein A, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):244–6

[Computerized tomography in epilepsy in children] Hauser E, et al. **Wien Klin Wochenschr** 1990 Mar 30;102(7):210–2 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

99Tcm–HMPAO single photon emission computed tomography in partial epilepsy: a preliminary report. Smith DF, et al. **Br J Radiol** 1989 Nov;62(743):970–3

Hexa–methyl–propylene–amine–oxime (HMPAO) single photon emission computed tomography (SPECT) in epilepsy. Podreka I, et al. **Brain Topogr** 1988 Fall;1(1):55–60

I–123 iofetamine single photon emission tomography in school–age children with difficult–to–control seizures. Gelfand MJ, et al. **Clin Nucl Med** 1989 Sep;14(9):675–80

Single photon emission computed tomography (SPECT) using N–isopropyl–p–(123I) iodoamphetamine (IMP) in the evaluation of patients with epileptic seizures. Kawamura M, et al. **Eur J Nucl Med** 1990;16(4–6):285–92

Focal epilepsies: HM–PAO SPECT compared with CT, MR, and EEG. Cordes M, et al. **J Comput Assist Tomogr** 1990 May–Jun;14(3):402–9

Study of the cerebral blood flow in partial epilepsy of childhood using the SPECT method. Chiron C, et al. **J Neuroradiol** 1989 Dec;16(4):317–24 **(Eng, Fre)**

HIPDM–SPECT brain imaging in the presurgical evaluation of patients with intractable seizures. Shen W, et al. **J Nucl Med** 1990 Aug;31(8):1280–4

Positron emission tomography in epilepsy: correlative study. Hosokawa S, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):349–53

Concordance and discordance between PET images and foci of scalp EEG. Iinuma K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):379–83

Reexamination of 123I–IMP–SPECT at interictal stages in adult partial epilepsy. Jibiki I, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):385–8

Regional cerebral blood flow in epileptic foci using [I–123] IMP–SPECT. Konishi T. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):355–60

[Comparison of blood flow and benzodiazepine receptor distribution in focal epilepsy: preliminary results of a SPECT study] Bartenstein P, et al. **Nuklearmedizin** 1989 Oct;28(5):181–6 (Eng. Abstr.) **(Ger)**

[Single photon emission computed tomography (SPECT) with N–isopropyl–p–(123I) iodoamphetamine in partial epilepsy—evaluation of delayed image] Kawamura M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1989 May 25; 49(5):630–42 (Eng. Abstr.) **(Jpn)**

SURGERY

Selective epilepsy surgery in tuberous sclerosis. Bye AM, et al. **Aust Paediatr J** 1989 Aug;25(4):243–5

Post–temporal lobectomy seizures. Bladin PF. **Clin Exp Neurol** 1987;24:77–83

Selection criteria for surgery in patients with refractory epilepsy. Mackenzie R, et al. **Clin Exp Neurol** 1987;24:67–76

Multiple subpial transection in treatment of focal epilepsy [letter; comment] Piatt JH Jr. **J Neurosurg** 1989 Oct; 71(4):629–30 Comment on: J Neurosurg 1989 Feb;70(2):231–9.

Expanding treatment modality of medically intractable epilepsy: classical excision and anterior callosal bisection. Wada JA. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):331–3

Stereotactic resection of intra–axial cerebral lesions in partial epilepsy [see comments] Cascino GD, et al. **Mayo Clin Proc** 1990 Aug;65(8):1053–60 Comment in: Mayo Clin Proc 1990 Aug;65(8):1150–1.

Focal resection for malignant partial seizures in infancy. Duchowny MS, et al. **Neurology** 1990 Jun;40(6):980–4

The relationship of working memory to the immediate recall of stories following unilateral temporal or frontal lobectomy. Frisk V, et al. **Neuropsychologia** 1990; 28(2):121–35

The role of the left hippocampal region in the acquisition and retention of story content. Frisk V, et al. **Neuropsychologia** 1990;28(4):349–59

Force matching by patients with unilateral focal cerebral lesions. Jones L. **Neuropsychologia** 1989;27(9):1153–63

Nonspatial conditional learning impaired in patients with unilateral frontal but not unilateral temporal lobe excisions. Petrides M. **Neuropsychologia** 1990;28(2):137–49

Surgical treatment of epilepsy: initial results based upon epidural electroencephalographic recordings. Kuzniecky R, et al. **South Med J** 1990 Jun;83(6):637–9

[The surgical treatment procedure and results in multifocal epilepsy] Zemskaia AG, et al. **Zh Vopr Neirokhir** 1990 Jan–Feb;(1):15–7 (Eng. Abstr.) **(Rus)**

THERAPY

Transcranial magnetic stimulation in epileptic patients: usefulness and safety. Tassinari CA, et al. **Neurology** 1990 Jul;40(7):1132–3

Behavioural treatment of epilepsy. Fenwick PB. **Postgrad Med J** 1990 May;66(775):336–8 (29 ref.)

EPILEPSY, GRAND MAL

BLOOD

Diurnal variation of carbamazepine and carbamazepine–10,11–epoxide in plasma and saliva in children with epilepsy: a comparison between conventional and slow–release formulations. Eeg–Olofsson O, et al. **J Child Neurol** 1990 Apr;5(2):159–65

CHEMICALLY INDUCED

Diazepam loading for alcohol withdrawal: seizure risk in epileptics [letter] van Sweden B. **Biol Psychiatry** 1989 Dec; 26(8):853–4

Seizure related to erythropoietin treatment in patients undergoing dialysis [letter; comment] Temple RM, et al. **BMJ** 1990 Jan 6;300(6716):46 Comment on: BMJ 1989 Nov 18;299(6710):1258–9.
Grand mal convulsions subsequent to marijuana use. Case report. Keeler MH, et al. **Dis Nerv Syst** 1967 Jul;28(7 Pt 1):474–5
Seizures associated with 1% cyclopentolate eyedrops. Fitzgerald DA, et al. **J Paediatr Child Health** 1990 Apr; 26(2):106–7
Hyponatraemia and Moduretic–grand mal seizures [letter; comment] Byatt CM. **J R Soc Med** 1990 Mar;83(3):200 Comment on: J R Soc Med 1989 Aug;82(8):479–83.
Seizure in gradual clonazepam withdrawal [see comments] Wong T, et al. **Psychiatr J Univ Ottawa** 1989 Sep;14(3):484 Comment in: Psychiatr J Univ Ott 1990 Mar;15(1):64.

CLASSIFICATION

[Benign grand mal epilepsy in the adult] Oller–Daurella L, et al. **Acta Neurol Belg** 1989 Jan–Feb;89(1):38–45 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Bilateral anterior dislocation of the shoulder following a grand–mal convulsion. Ribbans WJ. **Br J Clin Pract** 1989 May;43(5):181–2
A case of central nervous system lupus associated with ruptured cerebral berry aneurysm. Nagayama Y, et al. **Jpn J Med** 1989 Jul–Aug;28(4):530–3
[Neurogenic pulmonary edema complicating a generalized epileptic crisis] Pascual M, et al. **Schweiz Med Wochenschr** 1990 Mar 24;120(12):409–13 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Adult temper tantrums misdiagnosed as epilepsy. Cohen LM, et al. **Psychosomatics** 1990 Summer;31(3):348–50
[The startle response and epilepsy] Graf M, et al. **Wien Klin Wochenschr** 1990 Apr 13;102(8):233–8 (Eng. Abstr.) **(Ger)**
[Significance of serum prolactin determination in the differential diagnosis of psychogenic seizures—exemplified by 2 case reports] Schmitt GM, et al. **Z Kinder Jugenpsychiatr** 1990 Mar;18(1):29–34 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Outpatient sleep recording during antiepileptic drug monotherapy. Drake ME Jr, et al. **Clin Electroencephalogr** 1990 Jul;21(3):170–3
Breakthrough seizures with generic carbamazepine? [letter] Hartley R, et al. **Dev Med Child Neurol** 1990 May; 32(5):460–2
Phenytoin—isoniazid interaction [letter] Avasthi R, et al. **J Assoc Physicians India** 1989 Nov;37(11):728
Analyses of epileptics who have been intractable but entered prolonged remission afterwards without medications. Ueda S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):507–8
[A report on a feasibility test of "community control of epilepsy" proposed by WHO] Li SC. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Jun; 22(3):144–7, 190 (Eng. Abstr.) **(Chi)**
[Studies on synthetic new drug SC1001–sodium against epilepsy induced by coriaria lactone in rabbits] Xie YG, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1989 Mar; 20(1):24–7 (Eng. Abstr.) **(Chi)**
[Vitamin K deficiency with erythromycin. Observation of a boy treated with valproate] Cordes I, et al. **Monatsschr Kinderheilkd** 1990 Feb;138(2):85–7 (Eng. Abstr.) **(Ger)**
[Hypoplasia of the nails and end phalanges as a sequela of prenatal barbiturate exposure] Holder M, et al. **Monatsschr Kinderheilkd** 1990 Jan;138(1):34–5 (Eng. Abstr.) **(Ger)**
[Plasma separation in acute, intravenous phenytoin poisoning] Scharf J, et al. **Monatsschr Kinderheilkd** 1990 Apr; 138(4):227–30 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

[An analytic epidemiologic survey of epilepsy in the Hui and Han nationality districts of Yinchuan] Kong FY. **Chung Hua Shen Ching Ching Shen Ko Tsa Chih** 1989 Apr; 22(2):111–3, 127–8 (Eng. Abstr.) **(Chi)**

ETIOLOGY

Grand mal seizure after retrobulbar block [letter] Fletcher SJ, et al. **Anaesthesia** 1990 Aug;45(8):696
Status epilepticus. Takahashi A, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):522–3

GENETICS

Mental retardation, craniofacial dysmorphism, hypogonadism, diabetes mellitus and epilepsy in four siblings. A "new" mental retardation syndrome. Fryns JP, et al. **Clin Genet** 1990 Feb;37(2):111–6

PHYSIOPATHOLOGY

Brainstem auditory evoked responses in partial and generalized seizures. Phillips B, et al. **Clin Electroencephalogr** 1990 Jul;21(3):135–9
Prognosis after grand mal seizures: a study of 187 children with three–year remissions. Ehrhardt P, et al. **Dev Med Child Neurol** 1989 Oct;31(5):633–9

PSYCHOLOGY

A "hateful epileptic" patient in the burn unit [clinical conference] Wurzberger B, et al. **Gen Hosp Psychiatry** 1990 May;12(3):198–204
The synthetic use of movement and verbal psychoanalytic psychotherapies. Ragan C, et al. **J Am Acad Psychoanal** 1990 Spring;18(1):115–30
Clinical studies of schizophrenia–like state in epileptic patients. Kido H, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):433–8
Cognitive function in children with epilepsy—comparison with other clinical findings concerning epilepsy. Noda M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):528–9
Change and continuity in patient theories of illness: the case of epilepsy. Kirchgässler KU. **Soc Sci Med** 1990; 30(12):1313–8
[Depressive disorder of the epilepsy patient—symptoms and factors of influence] Möller AA, et al. **Schweiz Arch Neurol Psychiatr** 1990;141(2):139–48 (Eng. Abstr.) **(Ger)**

REHABILITATION

[Epilepsy and working world—summary presentation of empirical research with special reference to reality and potential for vocational rehabilitation] Bahrs O, et al. **Rehabilitation (Stuttg)** 1990 May;29(2):100–11 (Eng. Abstr.) **(Ger)**

SURGERY

Results of corpus callosum section in two patients with Lennox–Gastaut syndrome. Nii Y, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):500–1
[Surgical treatment of epilepsy with electrocorticography monitoring] Li L. **Chung Hua Wai Ko Tsa Chih** 1989 Aug; 27(8):470–1, 509 (Eng. Abstr.) **(Chi)**

EPILEPSY, MYOCLONUS

[Juvenile myoclonic epilepsy: a prospective study of 13 cases] Giménez–Roldán S, et al. **Neurologia** 1986 Sep–Oct; 1(5):185–93 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Myoclonic seizure activity with chronic high–dose spinal opioid administration. Parkinson SK, et al. **Anesthesiology** 1990 Apr;72(4):743–5

CLASSIFICATION

Classification of progressive myoclonus epilepsies and related disorders. Marseille Consensus Group. **Ann Neurol** 1990 Jul;28(1):113–6

COMPLICATIONS

Lafora–body disease with optic atrophy, macular degeneration and cardiac failure. de Graaf AS, et al. **J Neurol Sci** 1989 Oct;93(1):69–84
Progressive myoclonic encephalopathy in X–linked hypogamma–globulinemia. Case report, review of the literature and its relationship with progressive encephalopathy in children with A.I.D.S. Colamaria V, et al. **Neuropediatrics** 1989 Nov;20(4):223–9 (39 ref.)
[Near drowning of a child with severe epilepsy] Madsen LP. **Ugeskr Laeger** 1990 Jul 30;152(31):2245–6 (Eng. Abstr.) **(Dan)**
[Parkinson disease and photosensitive epilepsy] Scarpino O, et al. **Rev Neurol (Paris)** 1990;146(1):36–40 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Myoclonus epilepsy and ragged–red fibres (MERRF). 1. A clinical, pathological, biochemical, magnetic resonance spectrographic and positron emission tomographic study. Berkovic SF, et al. **Brain** 1989 Oct;112 (Pt 5):1231–60 (150 ref.)
Clinical and electroencephalographical follow–up study of early myoclonic encephalopathy. Otani K, et al. **Brain Dev** 1989;11(5):332–7
Mechanism of occurrence of PLEDs: observations by SPECT and X–ray CT with lapse of time. Kawai K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):542–3
The epileptic syndrome sharing common characteristics during early childhood with severe myoclonic epilepsy in infancy. Ogino T, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):479–81
Dentatorubro–pallidoluysian atrophy of the myoclonus epilepsy type with posterior column degeneration. Pfeiffer RF, et al. **Mov Disord** 1990;5(2):134–8
[A clinical and electroencephalographic study of juvenile myoclonic epilepsy: its pathophysiological considerations based on the findings obtained from neuropsychological EEG activation] Matsuoka H. **Seishin Shinkeigaku Zasshi** 1989;91(5):318–46 (Eng. Abstr.) **(Jpn)**
[Epileptic attacks in subacute sclerosing panencephalitis (SSPE)] Sobczyk W, et al. **Neurol Neurochir Pol** 1989 May–Jun;23(3):208–13 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Low–dose alternate–day corticotropin therapy in the treatment of childhood seizures. Dooley JM, et al. **Am J Dis Child** 1989 Nov;143(11):1263–5
Myoclonic seizures are usually seen in patients who have some anoxic and/or toxic–metabolic encephalopathy [letter] Gannon R. **Am J Emerg Med** 1990 May;8(3):274–5
Clonazepam in juvenile myoclonic epilepsy. Obeid T, et al. **Epilepsia** 1989 Sep–Oct;30(5):603–6
Antimyoclonic effects of alcohol in progressive myoclonus epilepsy. Genton P, et al. **Neurology** 1990 Sep;40(9):1412–6

ENZYMOLOGY

Myoclonic epilepsy of Lafora and arylsulphatase A deficiency in the same patient. Bertagnolio B, et al. **J Inherited Metab Dis** 1989;12(4):458–66

EPIDEMIOLOGY

Epidemiology of severe myoclonic epilepsy of infancy. Hurst DL. **Epilepsia** 1990 Jul–Aug;31(4):397–400

ETIOLOGY

On a rare atypical form of metachromatic leukodystrophy (MLD): "neurological non–mld patients with low levels of arylsulphatase A". Description of two cases. Grasso A, et al. **Acta Neurol (Napoli)** 1989 Aug;11(4):233–8
The Ramsay Hunt syndrome revisited: Mediterranean myoclonus versus mitochondrial encephalomyopathy with ragged–red fibers and Baltic myoclonus. Genton P, et al. **Acta Neurol Scand** 1990 Jan;81(1):8–15
Self–induced pattern–sensitive epilepsy in childhood. Matricardi M, et al. **Acta Paediatr Scand** 1990 Feb; 79(2):237–40
Neonatal sleep myoclonus followed by myoclonic–astatic epilepsy: a case report. Nolte R. **Epilepsia** 1989 Nov–Dec; 30(6):844–50
Nocturnal myoclonus in restless legs syndrome effect of carbamazepine treatment. Zucconi M, et al. **Funct Neurol** 1989 Jul–Sep;4(3):263–71
[Mitochondrial encephalomyopathy] Ozawa T, et al. **Tanpakushitsu Kakusan Koso** 1990 May;35(7 Suppl):1236–45 **(Jpn)**

GENETICS

Is juvenile myoclonic epilepsy an autosomal recessive disease? [letter] Greenberg DA, et al. **Ann Neurol** 1990 Jul;28(1):110–1
Mitochondrial myopathy and myoclonic epilepsy. Arruda WO, et al. **Arq Neuropsiquiatr** 1990 Mar;48(1):32–43
Myoclonic epilepsy and ragged–red fiber disease (MERRF) is associated with a mitochondrial DNA tRNA(Lys) mutation. Shoffner JM, et al. **Cell** 1990 Jun 15;61(6):931–7
Gingival fibromatosis, mental retardation, epilepsy and hypertrichosis [letter] Kiss P. **Dev Med Child Neurol** 1990 May;32(5):459–60
Clinicoelectrographic concordance between monozygotic twins with severe myoclonic epilepsy in infancy. Fujiwara T, et al. **Epilepsia** 1990 May–Jun;31(3):281–6
Familial occurrence of benign myoclonus of early infancy. Galletti F, et al. **Epilepsia** 1989 Sep–Oct;30(5):579–81
Ito syndrome (hypomelanosis of Ito) as a cause of intractable epilepsy. Hara M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):487–9
Electroencephalographic findings of hereditary dentatorubral–pallidoluysian atrophy (DRPLA). Inazuki G, et al. **Jpn J Psychiatry Neurol** 1989 Jun;43(2):213–20
[A clinical study and neuropathological findings of a familial disease with myoclonus and epilepsy—the nosological place of familial essential myoclonus and epilepsy (FEME)] Inazuki G, et al. **Seishin Shinkeigaku Zasshi** 1990;92(1):1–21 **(Jpn)**

METABOLISM

Immunocytochemical and lectin–binding studies on Lafora bodies. Lewis PD, et al. **Clin Neuropathol** 1990 Jan–Feb; 9(1):7–9
[Mitochondrial myopathy and abnormal mitochondrial DNA] Takeshita K. **Tanpakushitsu Kakusan Koso** 1988 Apr;33(5):834–8 **(Jpn)**

PATHOLOGY

Involvement of extraocular muscle in mitochondrial encephalomyopathy. Takeda S, et al. **Acta Neuropathol (Berl)** 1990;80(2):118–22
Longitudinal clinicoelectrophysiologic study of a case of Lafora disease proven by skin biopsy. Kobayashi K, et al. **Epilepsia** 1990 Mar–Apr;31(2):194–201
Lafora's disease: what is the best site for skin biopsy? Samlaska CP, et al. **J Am Acad Dermatol** 1989 Oct;21(4 Pt 1):791–2
[Significance of skin biopsy in Lafora disease] Viñals M, et al. **Neurologia** 1986 Jul–Aug;1(4):143–6 (18 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Dopaminergic–cholinergic interaction in a myoclonus of

papio papio baboon. Rektor I, et al.
Act Nerv Super (Praha) 1989 Dec;31(4):271–2
Myoclonus epilepsy and ragged-red fibres (MERRF). 2. Electrophysiological studies and comparison with other progressive myoclonus epilepsies. So N, et al. **Brain** 1989 Oct;112 (Pt 5):1261–76
Clinical and neuropathologic findings in a case of severe myoclonic epilepsy of infancy. Renier WO, et al.
Epilepsia 1990 May–Jun;31(3):287–91
Autonomic nervous system function in Baltic myoclonus epilepsy. Kälviäinen R, et al. **Epilepsy Res** 1990 Apr; 5(3):251–4
Semi-late onset and rapidly progressive case of Lafora's disease with predominant cognitive symptoms. Genton P, et al. **Eur Neurol** 1989;29(6):333–8
Pain-related somatosensory evoked potentials in cortical reflex myoclonus. Kakigi R, et al.
J Neurol Neurosurg Psychiatry 1990 Jan;53(1):44–8
A peculiar state observed in 4 patients with severe myoclonic epilepsy in infancy. Yasuda S, et al.
Jpn J Psychiatry Neurol 1989 Sep;43(3):533–5
Myoclonic status epilepticus: a clinical and electroencephalographic study. Jumao-as A, et al.
Neurology 1990 Aug;40(8):1199–202
Common dopaminergic mechanism for epileptic photosensitivity in progressive myoclonus epilepsies. Mervaala E, et al. **Neurology** 1990 Jan;40(1):53–6
["Benign" form of myoclonic epilepsy in children] Dulac O, et al. **Neurophysiol Clin** 1990 May;20(2):115–29 (Eng. Abstr.) **(Fre)**

VETERINARY

Lafora's disease in a dog. Davis KE, et al. **Aust Vet J** 1990 May;67(5):192–3

EPILEPSY, PARTIAL see **EPILEPSY, FOCAL**

EPILEPSY, PARTIAL COMPLEX see **EPILEPSY, TEMPORAL LOBE**

EPILEPSY, PETIT MAL

[An analysis of criminal liability in a criminal case involving an epileptic] Liu H.
Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Dec; 22(6):358–60, 383 (Eng. Abstr.) **(Chi)**

CHEMICALLY INDUCED

Absence and atonic seizures induced by piperazine. Yohai D, et al. **Pediatr Neurol** 1989 Nov–Dec;5(6):393–4

COMPLICATIONS

Petit mal status: an unusual cause of confusion. Boyd O, et al. **Br J Hosp Med** 1990 Mar;43(3):230–1
Epilepsy with typical absence seizures with onset during the first year of life. Cavazzuti GB, et al. **Epilepsia** 1989 Nov–Dec;30(6):802–6
[Neurogenic pulmonary edema complicating a generalized epileptic crisis] Pascual M, et al.
Schweiz Med Wochenschr 1990 Mar 24;120(12):409–13 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

[The startle response and epilepsy] Graf M, et al.
Wien Klin Wochenschr 1990 Apr 13;102(8):233–8 (Eng. Abstr.) **(Ger)**
[Epileptic attacks in subacute sclerosing panencephalitis (SSPE)] Sobczyk W, et al. **Neurol Neurochir Pol** 1989 May–Jun;23(3):208–13 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Low-dose alternate-day corticotropin therapy in the treatment of childhood seizures. Dooley JM, et al.
Am J Dis Child 1989 Nov;143(11):1263–5
Development of tolerance to the anticonvulsant effect of valproate but not to ethosuximide in a rat model of absence epilepsy. Wahle H, et al. **Eur J Pharmacol** 1990 May 31; 181(1–2):1–8
Once-daily ethosuximide in the treatment of absence epilepsy. Dooley JM, et al. **Pediatr Neurol** 1990 Jan–Feb; 6(1):38–9
Immediate effects of 14 non MAOI antidepressants in rats with spontaneous petit mal-like seizures. Warter JM, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1990; 14(2):261–70

GENETICS

Genetics of absence epilepsy in rats. Peeters BW, et al.
Behav Genet 1990 May;20(3):453–60
Ito syndrome (hypomelanosis of Ito) as a cause of intractable epilepsy. Hara M, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):487–9

PHYSIOPATHOLOGY

Reflex petit mal absence? DeMarco P.
Clin Electroencephalogr 1990 Apr;21(2):74–6
Paradoxical role of GABA in a chronic model of petit mal (absence)-like epilepsy in the rat. Smith KA, et al.
Eur J Pharmacol 1990 Jan 25;176(1):45–55
The circadian rhythm of typical absence seizures—the frequency and duration of paroxysmal discharges. Nagao H, et al. **Neuropediatrics** 1990 May;21(2):79–82
Absence epilepsy in rats is reduced by deprivation of REM sleep. Peeters BW, et al. **Physiol Behav** 1989 Aug; 46(2):115–9

PREVENTION & CONTROL

Valproate prevents the recurrence of absence status [see comments] Berkovic SF, et al. **Neurology** 1989 Oct; 39(10):1294–7 Comment in: Neurology 1990 Jun;40(6):1010–1.

PSYCHOLOGY

Neuropsychological approach to epilepsy—with special reference to neuropsychological evaluations of the ictal psychosis. Matsuoka H. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):427–31

SURGERY

Results of corpus callosum section in two patients with Lennox–Gastaut syndrome. Nii Y, et al.
Jpn J Psychiatry Neurol 1989 Sep;43(3):500–1

EPILEPSY, PSYCHIC EQUIVALENT see **EPILEPSY, TEMPORAL LOBE**

EPILEPSY, PSYCHOMOTOR see **EPILEPSY, TEMPORAL LOBE**

EPILEPSY, TEMPORAL LOBE

[Experimental complex partial seizure and its possible clinical application] Tanaka T. **No To Hattatsu** 1990 Mar; 22(2):121–5 (10 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Hormonal disregulation and catamenial epilepsy. Narbone MC, et al. **Funct Neurol** 1990 Jan–Mar;5(1):49–53

CEREBROSPINAL FLUID

A study on opioid peptides in CSF of patients with epilepsy. Cheng JG, et al. **Epilepsy Res** 1990 Jul;6(2):141–5

CHEMICALLY INDUCED

Complex partial status epilepticus provoked by "crack" cocaine. Ogunyemi AO, et al. **Ann Neurol** 1989 Dec; 26(6):785–6
Changes in seizure activity following anticonvulsant drug withdrawal. So N, et al. **Neurology** 1990 Mar;40(3 Pt 1):407–13

COMPLICATIONS

The spectrum of abdominal epilepsy in adults. Peppercorn MA, et al. **Am J Gastroenterol** 1989 Oct;84(10):1294–6
Three cases of anorexia nervosa associated with temporal lobe epilepsy. Signer SF, et al. **Am J Psychiatry** 1990 Feb; 147(2):235–8
Epilepsy and arson [see comments] Carpenter PK, et al.
Br J Psychiatry 1989 Apr;154:554–6 Comment in: Br J Psychiatry 1989 Aug;155:268.
First-rank symptoms of Schneider. A new perspective? Trimble MR. **Br J Psychiatry** 1990 Feb;156:195–200
Acute postictal psychosis: a stereo EEG study. So NK, et al. **Epilepsia** 1990 Mar–Apr;31(2):188–93
Prolonged spontaneous complex visual hallucinations and illusions as ictal phenomena. Sowa MV, et al. **Epilepsia** 1989 Sep–Oct;30(5):524–6
Bradycardia and syncope as manifestations of partial epilepsy. Constantin L, et al. **J Am Coll Cardiol** 1990 Mar 15; 15(4):900–5
Seizure-induced miosis and ptosis: association with temporal lobe magnetic resonance imaging abnormalities. Afifi AK, et al. **J Child Neurol** 1990 Apr;5(2):142–6
Hyperprolactinemia and temporal lobe epilepsy in a woman: concomitant and persistent prolactin suppression and temporal lobe epilepsy relief. Gattereau A, et al.
J Endocrinol Invest 1990 Mar;13(3):247–9
[Epileptic psychosis—ictal psychosis?] Soeur M, et al.
Acta Neurol Belg 1989 Jan–Feb;89(1):12–28 (Eng. Abstr.) **(Fre)**
[Secondary mania. Diagnostic problems (apropos of a case of secondary mania in partial complex epilepsy crisis)] Estrade JF, et al. **Ann Med Psychol (Paris)** 1989 Aug; 147(6):662–7 (25 ref.) **(Fre)**
[Epilepsy with rolandic paroxysms and migraine, a non-fortuitous association. Results of a controlled study] Giroud M, et al. **Pediatrie** 1989;44(8):659–64 (27 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

MR imaging in patients with temporal lobe seizures: correlation of results with pathologic findings. Heinz ER, et al. **AJNR** 1990 Jul–Aug;11(4):827–32
MR imaging in patients with intractable complex partial epileptic seizures. Brooks BS, et al.
AJR Am J Roentgenol 1990 Mar;154(3):577–83
Anterior temporal (T1/T2) electrodes in the evaluation of patients with seizure disorders [letter] Bromfield E, et al.
Clin Electroencephalogr 1989 Oct;20(4):VII–VIII
Detection of sleep apnea during standard ambulatory cassette EEG recording for seizures: two case reports. McNamara ME. **Clin Electroencephalogr** 1990 Jul;21(3):168–9
The evaluation of patients with intractable complex partial seizures. Lesser RP, et al.
Electroencephalogr Clin Neurophysiol 1989 Nov;73(5):381–8 (61 ref.)
Focal cerebral lesions found by magnetic resonance imaging in cryptogenic nonrefractory temporal lobe epilepsy patients. Franceschi M, et al. **Epilepsia** 1989 Sep–Oct; 30(5):540–6
Can sharp waves localized at the sphenoidal electrode accurately identify a mesio-temporal epileptogenic focus? Morris HH 3d, et al. **Epilepsia** 1989 Sep–Oct;30(5):532–9
Long-term EEG-video-audio monitoring: detection of partial epileptic seizures and psychogenic episodes by 24-hour EEG record review. Pierelli F, et al. **Epilepsia** 1989 Sep–Oct;30(5):513–23
Multidisciplinary analysis of patients with extratemporal complex partial seizures. II. Predictive value of semiology. Swartz BE, et al. **Epilepsy Res** 1990 Mar;5(2):146–54
Abdominal epilepsy. Agrawal P, et al. **Indian J Pediatr** 1989 Jul–Aug;56(4):539–41
CT, MR and SPECT imaging in temporal lobe epilepsy. Duncan R, et al. **J Neurol Neurosurg Psychiatry** 1990 Jan; 53(1):11–5
Singing in the brain: a new form of complex partial seizure? [letter] Vidailhet M, et al.
J Neurol Neurosurg Psychiatry 1989 Nov;52(11):1306
Magnetic resonance imaging in refractory focal epilepsy with normal CT scans. Froment JC, et al. **J Neuroradiol** 1989 Dec;16(4):285–91 **(Eng, Fre)**
Spinal cord tumor-associated syrinx mimicking abdominal epilepsy: a rare cause of childhood abdominal pain. Drexler DL, et al. **J Pediatr Gastroenterol Nutr** 1989 Nov; 9(4):524–7
Electroclinical correlation examined by simultaneous VTR-EEG monitoring in a patient with complex partial status epilepticus. Fukunishi I, et al.
Jpn J Psychiatry Neurol 1989 Jun;43(2):177–81
Magnetic resonance imaging in complex partial seizures. Furune S, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):361–7
MRI lesion and epileptogenic focus in temporal lobe epilepsy. Matsuda K, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):393–400
A correlative study between hippocampal atrophy quantified by tomo-pneumoencephalography and epileptogenic focus in temporal lobe epilepsy. Tottori T, et al.
Jpn J Psychiatry Neurol 1989 Sep;43(3):538–41
Focal CT abnormality and epileptogenic focus. Yagi K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):373–7
Magnetoencephalography in prospective clinical routine. Lefebre C, et al. **Psychiatry Res** 1989 Sep;29(3):375–6
[Clinical analysis of 47 cases of epilepsy] Li Y.
Chung Hua Shen Ching Ching Shen Ko Tsa Chih 1989 Aug; 22(4):237–9, 254–5 (Eng. Abstr.) **(Chi)**
[Rudimentary psychomotor seizures and their differential diagnosis] Karbowski K. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):772–6 (Eng. Abstr.) **(Ger)**
[Psychomotor seizures in childhood and their differential diagnosis] Vassella F. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):767–70 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Outpatient sleep recording during antiepileptic drug monotherapy. Drake ME Jr, et al.
Clin Electroencephalogr 1990 Jul;21(3):170–3
Breakthrough seizures with generic carbamazepine? [letter] Hartley R, et al. **Dev Med Child Neurol** 1990 May; 32(5):460–2
Double-blind crossover trial of lamotrigine (Lamictal) as add-on therapy in intractable epilepsy. Binnie CD, et al. **Epilepsy Res** 1989 Nov–Dec;4(3):222–9
Maximal dentate activation: a tool to screen compounds for activity against limbic seizures. Stringer JL, et al.
Epilepsy Res 1990 Apr;5(3):169–76
The toxic effects of anticonvulsant drugs in long-term treatment of epilepsy [letter] Ramana R, et al.
J Neurol Neurosurg Psychiatry 1989 Sep;52(9):1116
Effectiveness of bromazepam in children with complex partial seizures. Nakamigawa T, et al.
Jpn J Psychiatry Neurol 1989 Sep;43(3):495–7
Erythromycin-induced carbamazepine intoxication in two epileptic children. Tagawa T, et al.
Jpn J Psychiatry Neurol 1989 Sep;43(3):513–4
Analyses of epileptics who have been intractable but entered prolonged remission afterwards without medications. Ueda S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):507–8
Dextromethorphan for treatment of complex partial seizures. Fisher RS, et al. **Neurology** 1990 Mar;40(3 Pt 1):547–9
Zonisamide-induced mania. Charles CL, et al.
Psychosomatics 1990 Spring;31(2):214–7
[A barbiturate derivative-induced depressive syndrome in a 9-year-old boy with complex focal seizures and secondary generalization—a case report] Hässler F.
Psychiatr Neurol Med Psychol (Leipz) 1989 Dec; 41(12):737–40 (Eng. Abstr.) **(Ger)**
[Mononucleosis syndrome with hypersensitivity hepatitis following carbamazepine administration] Hintsche-Kilger BB, et al. **Z Arztl Fortbild (Jena)** 1990;84(11):551–3 **(Ger)**

[Granulomatous hepatitis secondary to ingestion of carbamazepine. Report of a case] Rodríguez Hernández H, et al. **Rev Gastroenterol Mex** 1989 Oct–Dec;54(4):239–41 (12 ref.) (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Alterations of hippocampal acetylcholinesterase in human temporal lobe epilepsy. Green RC, et al. **Ann Neurol** 1989 Sep;26(3):347–51

Tyrosine hydroxylase–immunoreactive neurons in the temporal lobe in complex partial seizures. Zhu ZQ, et al. **Ann Neurol** 1990 May;27(5):564–72

ETIOLOGY

Demonstration of a little known cause of infantile epilepsy, occipital porencephaly, by computerized tomography (CT). Gastaut H, et al. **Comput Tomogr** 1977;1(4):323–30

Complex partial status epilepticus in a patient with leptomeningeal carcinomatosis. Dexter DD Jr, et al. **Neurology** 1990 May;40(5):858–9

Antiphospholipid antibody syndrome presenting with complex partial seizures and transient ischaemic attacks due to widespread small cerebral arterial thrombosis. Leach IH, et al. **Neuropathol Appl Neurobiol** 1989 Nov–Dec; 15(6):579–84

Comparative studies with MRI, SPECT, and CT in patients with epilepsy of unknown origin. Berlit P, et al. **Psychiatry Res** 1989 Sep;29(3):459–60

[Anorexia nervosa, epileptic seizures and schizophreniform psychosis in temporo–basal angioma] Trabert W, et al. **Nervenarzt** 1990 Jan;61(1):57–60 **(Ger)**

[Rendu–Osler–Weber disease and cerebral arteriovenous malformation (letter)] Iriarte García–Baquero LM, et al. **Neurologia** 1988 Mar–Apr;3(2):83–4 **(Spa)**

HISTORY

Dostoevsky's epilepsy: a case report and comparison. Morgan H. **Surg Neurol** 1990 Jun;33(6):413–6

METABOLISM

Quinolinic acid concentrations in brain and cerebrospinal fluid of patients with intractable complex partial seizures. Heyes MP, et al. **Epilepsia** 1990 Mar–Apr;31(2):172–7

Altered distribution of excitatory amino acid receptors in temporal lobe epilepsy. Geddes JW, et al. **Exp Neurol** 1990 Jun;108(3):214–20

Quantifying interictal metabolic activity in human temporal lobe epilepsy. Henry TR, et al. **J Cereb Blood Flow Metab** 1990 Sep;10(5):748–57

Altered patterns of dynorphin immunoreactivity suggest mossy fiber reorganization in human hippocampal epilepsy. Houser CR, et al. **J Neurosci** 1990 Jan;10(1):267–82

Differences between lateral and mesial temporal metabolism interictally in epilepsy of mesial temporal origin. Sackellares JC, et al. **Neurology** 1990 Sep;40(9):1420–6

Long–term increase of glutamate decarboxylase mRNA in a rat model of temporal lobe epilepsy. Feldblum S, et al. **Neuron** 1990 Sep;5(3):361–71

Neuropeptide Y biosynthesis is markedly induced in mossy fibers during temporal lobe epilepsy of the rat. Marksteiner J, et al. **Neurosci Lett** 1990 May 4;112(2–3):143–8

PATHOLOGY

Hippocampal neuronal density in temporal lobe epilepsy with and without gliomas. Kim JH, et al. **Acta Neuropathol (Berl)** 1990;80(1):41–5

MR imaging in patients with intractable complex partial epileptic seizures. Brooks BS, et al. **AJNR** 1990 Jan–Feb; 11(1):93–9

MR imaging in patients with temporal lobe seizures: correlation of results with pathologic findings. Heinz ER, et al. **AJR Am J Roentgenol** 1990 Sep;155(3):581–6

The epileptogenic focus in temporal lobe epilepsy from a pathological standpoint. Malamud N. **Arch Neurol** 1966 Feb;14(2):190–5

A "mock up" of schizophrenia: temporal lobe epilepsy and schizophrenia–like psychosis. Roberts GW, et al. **Biol Psychiatry** 1990 Jul 15;28(2):127–43

Neuropathology of a human hippocampus following long–term treatment with vigabatrin: lack of microvacuoles. Agosti R, et al. **Epilepsy Res** 1990 Jul; 6(2):166–70

Structural changes in astrocytes induced by seizures in a mode of temporal lobe epilepsy. Castiglioni AJ, et al. **J Neurosci Res** 1990 Jul;26(3):334–41

Pathology of temporal lobe foci: correlation with CT, MRI, and PET. Theodore WH, et al. **Neurology** 1990 May; 40(5):797–803

Temporal lobe seizures: lateralization with MR volume measurements of the hippocampal formation [see comments] Jack CR Jr, et al. **Radiology** 1990 May; 175(2):423–9 Comment in: Radiology 1990 May;175(2):321.

PHYSIOPATHOLOGY

Detection of epileptiform activity by different noninvasive EEG methods in complex partial epilepsy. Goodin DS, et al. **Ann Neurol** 1990 Mar;27(3):330–4

Activation of the epileptic focus by transcranial magnetic stimulation of the human brain. Hufnagel A, et al. **Ann Neurol** 1990 Jan;27(1):49–60

Limbic P3 potentials, seizure localization, and surgical pathology in temporal lobe epilepsy. Puce A, et al. **Ann Neurol** 1989 Sep;26(3):377–85

Regional cerebral blood flow during focal seizures of temporal and frontocentral onset. Stefan H, et al. **Ann Neurol** 1990 Feb;27(2):162–6

Localization of epileptic foci using a large–area magnetometer and functional brain anatomy. Tiihonen J, et al. **Ann Neurol** 1990 Mar;27(3):283–90

Depression, anxiety, and temporal lobe epilepsy. Laterality of focus and symptoms. Altshuler LL, et al. **Arch Neurol** 1990 Mar;47(3):284–8

The clinical differentiation of seizures arising in the parasagittal and anterolaterodorsal frontal convexities. Quesney LF, et al. **Arch Neurol** 1990 Jun;47(6):677–9

Neurodevelopmental differences in emotional prosody in normal children and children with left and right temporal lobe epilepsy. Cohen M, et al. **Brain Lang** 1990 Jan; 38(1):122–34

Temporal intermittent rhythmic delta activity (TIRDA) in the diagnosis of complex partial epilepsy: sensitivity, specificity and predictive value. Reiher J, et al. **Can J Neurol Sci** 1989 Nov;16(4):398–401

Brainstem auditory evoked responses in partial and generalized seizures. Phillips B, et al. **Clin Electroencephalogr** 1990 Jul;21(3):135–9

Whistling epilepsy: a case report. Tan E, et al. **Clin Electroencephalogr** 1990 Apr;21(2):110–1

Scalp and intracerebral P300 in surgery for temporal lobe epilepsy. Puce A, et al. **Clin Exp Neurol** 1987;24:85–9

Dyscontrol syndrome: long–term follow–up. Monroe RR. **Compr Psychiatry** 1989 Nov–Dec;30(6):489–97

Parameters for direct cortical electrical stimulation in the human: histopathologic confirmation. Gordon B, et al. **Electroencephalogr Clin Neurophysiol** 1990 May;75(5):371–7

Activation of the epileptic focus during intracarotid amobarbital test. Electrocorticographic registration via subdural electrodes. Hufnagel A, et al. **Electroencephalogr Clin Neurophysiol** 1990 Jun; 75(6):453–63

Correlation of tibial nerve SEPs with the development of seizures in patients with supratentorial cerebral infarcts. Kovala T, et al. **Electroencephalogr Clin Neurophysiol** 1990 Sep–Oct;77(5):347–52

Cardiac and respiratory correlations with unit discharge in epileptic human temporal lobe. Frysinger RC, et al. **Epilepsia** 1990 Mar–Apr;31(2):162–71

Correlative study of interictal electroencephalogram and aura in complex partial seizures. Janati A, et al. **Epilepsia** 1990 Jan–Feb;31(1):41–6

Bicycling movements as a manifestation of complex partial seizures of temporal lobe origin. Sussman NM, et al. **Epilepsia** 1989 Sep–Oct;30(5):527–31

Wakefulness–sleep modulation of the surface and depth auditory evoked potentials in man. Velasco M, et al. **Int J Neurosci** 1989 Oct;48(3–4):333–46

Musicogenic epilepsy. Vizioli R. **Int J Neurosci** 1989 Jul; 47(1–2):159–64

Emotional facial expressions at the onset of temporal lobe seizures: observations on scalp and intracranial EEG recordings. Hiyoshi T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):419–26

Brief, complicated motor seizure. Kobayashi S, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):530–2

Hypergraphia in temporal lobe epilepsy—compared with stroke of the right cerebral hemisphere. Okamura T, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):524–5

Complex partial seizures with unilateral discharge originating from temporal lobe. Sue H, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):519–21

Neologistic speech automatisms during complex partial seizures. Bell WL, et al. **Neurology** 1990 Jan;40(1):49–52

Characterization of the basal temporal language area in patients with left temporal lobe epilepsy. Burnstine TH, et al. **Neurology** 1990 Jun;40(6):966–70

Intracranial EEG electrodes [letter; comment] Kuzniecky R, et al. **Neurology** 1990 Jun;40(6):1009–10 Comment on: Neurology 1989 Nov;39(11):1497–504.

Ictal localization of temporal lobe seizures with scalp/sphenoidal recordings. Risinger MW, et al. **Neurology** 1989 Oct;39(10):1288–93

Combined depth and subdural electrode investigation in uncontrolled epilepsy. Spencer SS, et al. **Neurology** 1990 Jan;40(1):74–9

Comparison of depth and subdural electrodes in recording temporal lobe seizures [see comments] Sperling MR, et al. **Neurology** 1989 Nov;39(11):1497–504 Comment in: Neurology 1990 Jun;40(6):1009–10.

Focal functional anatomy of dorsolateral frontocentral seizures. Sutherling WW, et al. **Neurology** 1990 Jan; 40(1):87–98

Generator mechanisms of epileptic potentials analyzed by dipole tracing method. Homma S, et al. **Neurosci Lett** 1990 May 31;113(2):181–6

Pericyte degeneration and thickening of basement membranes of cerebral microvessels in complex partial seizures: electron microscopic study of surgically removed tissue. Liwnicz BH, et al. **Neurosurgery** 1990 Mar;26(3):409–20

Subtypes of limbic system dysfunction evoking homicide in limbic (?) Psychotic trigger reaction and temporal lobe epilepsy—evolutionary constraints. Pontius AA. **Psychol Rep** 1989 Oct;65(2):659–71

[Identification of temporal epileptic seizures using percutaneous sphenoidal electrodes] Giroud M, et al. **Presse Med** 1990 Jun 23;19(25):1183–7 (Eng. Abstr.) **(Fre)**

[Psychomotor epilepsy: phenomenology, localization, pathogenesis and therapy] Kruse R. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):757–66 (30 ref.) (Eng. Abstr.) **(Ger)**

[Somatosensory potentials evoked by stimulation of the median nerves recorded during the operation from the surface of the cerebral cortex in patients with temporal lobe epilepsy] Szkiłądź E, et al. **Neurol Neurochir Pol** 1989 Jul–Dec;23(4–6):355–62 (Eng. Abstr.) **(Pol)**

[Interhemispheric asymmetry of the bioelectrical activity during sleep in patients with a bitemporal brain lesion] Ivanenko AI, et al. **Fiziol Cheloveka** 1990 Jan–Feb; 16(1):19–25 **(Rus)**

[The lateralization of a moving sound image in patients with a right–sided lesion of the temporal cortex and hippocampus] Mukhamedrakhimov RZh, et al. **Fiziol Cheloveka** 1990 Mar–Apr;16(2):46–50 **(Rus)**

[Structuro–functional organization and neurosurgical correction of mental seizures in epilepsy] Savchenko IuN, et al. **Zh Vopr Neirokhir** 1990 Jan–Feb;(1):9–11 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

The epileptic arsonist [letter; comment] Byrne A, et al. **Br J Psychiatry** 1989 Aug;155:268 Comment on: Br J Psychiatry 1989 Apr;154:554–6.

Epilepsy and violence. Hindler CG. **Br J Psychiatry** 1989 Aug;155:246–9

Playing on an imaginary giant backgammon board: a peculiar ictal behavior. Tan E, et al. **Clin Electroencephalogr** 1990 Jul;21(3):126–8

Consistency of seizure frequency estimates across time, methods, and observers. Glueckauf RL, et al. **Health Psychol** 1990;9(4):427–34

Depression, episodic behavioral dyscontrol, and polydipsia following right temporal lobe damage. Rubenstein JL, et al. **J Am Acad Child Adolesc Psychiatry** 1990 May; 29(3):472–4

Prevalence of the Fuld profile in temporal lobe epilepsy. Bornstein RA, et al. **J Clin Exp Neuropsychol** 1990 Mar; 12(2):265–9

Psychic seizure. Basu J. **J Indian Med Assoc** 1989 Jun; 87(6):141

Clinical studies of schizophrenia–like state in epileptic patients. Kido H, et al. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):433–8

Neuropsychological understanding of psychiatric symptoms in epileptics: cognitive impairments due to epileptic lesions as revealed by tachistoscopic and dichotic–listening measures. Niwa S. **Jpn J Psychiatry Neurol** 1989 Sep; 43(3):417–8

Cognitive function in children with epilepsy—comparison with other clinical findings concerning epilepsy. Noda M, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):528–9

Temporal lobes signs and Jungian dimensions of personality. Huot B, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 1):841–2

[Is there a "temporal psychosyndrome (Landolt)"?] Lange E, et al. **Psychiatr Neurol Med Psychol (Leipz)** 1990 Mar; 42(3):151–6 (Eng. Abstr.) **(Ger)**

[Psychiatric aspects of psychomotor epilepsy] Linder M. **Schweiz Rundsch Med Prax** 1990 Jun 12;79(24):777–81 (Eng. Abstr.) **(Ger)**

[Epileptic psychoses and aggressiveness] Ivanovic–Zuvic Ramirez F. **Acta Psiquiatr Psicol Am Lat** 1989 Jan–Jun; 35(1–2):13–21 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Disappearing brain lesions, psychosis and epilepsy: a report of two cases. Feinstein A, et al. **J Neurol Neurosurg Psychiatry** 1990 Mar;53(3):244–6

RADIONUCLIDE IMAGING

Tc99m HM–PAO single photon emission computed tomography in temporal lobe epilepsy. Duncan R, et al. **Acta Neurol Scand** 1990 Apr;81(4):287–93

Crossed cerebellar diaschisis in intracarotid sodium amytal procedures: a SPECT study. Kurthen M, et al. **Acta Neurol Scand** 1990 May;81(5):416–22

I–123 iofetamine single photon emission tomography in school–age children with difficult–to–control seizures. Gelfand MJ, et al. **Clin Nucl Med** 1989 Sep;14(9):675–80

Brain perfusion with intracarotid injection of 99mTc–HM–PAO in partial epilepsy during amobarbital testing. Hietala SO, et al. **Eur J Nucl Med** 1990; 16(8–10):683–7

SURGERY

Surgical alternatives for the treatment of temporal lobe epilepsy. Polkey C. **Br J Neurosurg** 1988;2(2):143–52 (51 ref.)

Loss of memory for people following temporal lobe damage. Ellis AW, et al. **Brain** 1989 Dec;112 (Pt 6):1469–83

Relief of seizures from a predominantly posterior temporal tumor with anterior temporal lobectomy. Sperling MR, et al. **Epilepsia** 1989 Sep–Oct;30(5):559–63

Relationships between MR–imaged total amount of tissue

removed, resection scores of specific mediobasal limbic subcompartments and clinical outcome following selective amygdalohippocampectomy. Siegel AM, et al. **Epilepsy Res** 1990 May-Jun;6(1):56-65

Acute hippocampal recording and pathology at temporal lobe resection and amygdalo-hippocampectomy for epilepsy. Polkey CE, et al. **J Neurol Neurosurg Psychiatry** 1989 Sep; 52(9):1050-7

Using a multidisciplinary follow-up program to assist patient adjustment following temporal lobectomy. McCullough MA, et al. **J Neurosci Nurs** 1989 Oct;21(5):295-304

Surgical management of complex partial seizures [clinical conference] Uematsu S. **JAMA** 1990 Aug 8;264(6):734-7

Results of corpus callosum section in two patients with Lennox-Gastaut syndrome. Nii Y, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):500-1

Selective posterior cerebral artery injection of amytal: new method of preoperative memory testing. Jack CR Jr, et al. **Mayo Clin Proc** 1989 Aug;64(8):965-75

Anterior temporal lobectomy for complex partial seizures: evaluation, results, and long-term follow-up in 100 cases. Walczak TS, et al. **Neurology** 1990 Mar;40(3 Pt 1):413-8

Retrograde amnesia following unilateral temporal lobectomy. Barr WB, et al. **Neuropsychologia** 1990;28(3):243-55

The role of the left hippocampal region in the acquisition and retention of story content. Frisk V, et al. **Neuropsychologia** 1990;28(4):349-59

The relationship of working memory to the immediate recall of stories following unilateral temporal or frontal lobectomy. Frisk V, et al. **Neuropsychologia** 1990; 28(2):121-35

Intact priming of patterns despite impaired memory. Gabrieli JD, et al. **Neuropsychologia** 1990;28(5):417-27

Nonspatial conditional learning impaired in patients with unilateral frontal but not unilateral temporal lobe excisions. Petrides M. **Neuropsychologia** 1990;28(2):137-49

Supraspan learning in patients with unilateral anterior temporal lobe resections. Rausch R, et al. **Neuropsychologia** 1990;28(2):111-20

Zygomatic approach for resection of mesial temporal epileptic focus. Shimizu H, et al. **Neurosurgery** 1989 Nov; 25(5):798-801

Auditory and visual P300s in temporal lobectomy patients: evidence for modality-dependent generators. Johnson R Jr. **Psychophysiology** 1989 Nov;26(6):633-50

Modifications of temporal lobectomy according to the extent of epileptic foci and speech-related areas. Shimizu H, et al. **Surg Neurol** 1990 Oct;34(4):229-34

[Clinical analysis of reoperation in cases of complex partial seizures] Tanaka T, et al. **No Shinkei Geka** 1989 Oct; 17(10):933-7 (Eng. Abstr.) **(Jpn)**

[Relation of outcome in the surgical treatment of temporal lobe epilepsy to the stage of the disease] Iatsuk SL. **Zh Vopr Neirokhir** 1990 Jan-Feb;(1):4-7 **(Rus)**

THERAPY

Epilepsy, myasthenia gravis, and effect of plasmapheresis on antiepileptic drug concentrations. Lai CW, et al. **Arch Neurol** 1990 Jan;47(1):66-8

EPILEPSY, TRAUMATIC

COMPLICATIONS

Diazepam loading for alcohol withdrawal: seizure risk in epileptics [letter] van Sweden B. **Biol Psychiatry** 1989 Dec; 26(8):853-4

DIAGNOSIS

Two cases of epilepsia partialis continua associated with head trauma. Nobuhara K, et al. **Jpn J Psychiatry Neurol** 1989 Sep;43(3):526-7

[Post-traumatic epilepsy with multifocal spikes: a case report] Ichiyama T, et al. **No To Hattatsu** 1990 May;22(3):292-4 **(Jpn)**

DRUG THERAPY

Zonisamide-induced mania. Charles CL, et al. **Psychosomatics** 1990 Spring;31(2):214-7

ETIOLOGY

Post-traumatic epilepsy [letter; comment] Davidoff G. **Arch Phys Med Rehabil** 1990 Jun;71(7):532 Comment on: Arch Phys Med Rehabil 1990 Feb;71(2):156-60.

PHYSIOPATHOLOGY

[Reaction of short-latency brain stem evoked potentials to acoustic stimulation and electroencephalography in post-traumatic epilepsy] Avakian GN, et al. **Zh Nevropatol Psikhiatr** 1989;89(9):65-8 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Prevention of post-traumatic epilepsy [editorial; comment] Hauser WA. **N Engl J Med** 1990 Aug 23;323(8):540-2 Comment on: N Engl J Med 1990 Aug 23;323(8):497-502.

A randomized, double-blind study of phenytoin for the prevention of post-traumatic seizures [see comments] Temkin NR, et al. **N Engl J Med** 1990 Aug 23; 323(8):497-502 Comment in: N Engl J Med 1990 Aug 23;323(8):540-2.

RADIOGRAPHY

[The results of computed tomography in patients with traumatic epilepsy] Laponogov OA, et al. **Vrach Delo** 1989 Sep;(9):93-5 (Eng. Abstr.) **(Rus)**

REHABILITATION

Rehabilitation outcomes in patients with posttraumatic epilepsy [see comments] Armstrong KK, et al. **Arch Phys Med Rehabil** 1990 Feb;71(2):156-60 Comment in: Arch Phys Med Rehabil 1990 Jun;71(7):532.

Posttraumatic epilepsy [letter] Davidoff G. **Arch Phys Med Rehabil** 1990 Aug;71(9):711

EPILEPSY, UNCINATE see **EPILEPSY, TEMPORAL LOBE**

EPIMERASES see under **ISOMERASES**

EPIMESTROL see under **ESTRENES**

EPINEPHRINE

Changes in haemodynamics and plasma catecholamine concentrations after field block for inguinal herniorrhaphy using lignocaine with adrenaline. Hayse-Gregson PB, et al. **Anaesthesia** 1990 Jan;45(1):7-10

TAC topical anesthesia produces positive urine tests for cocaine. Altieri M, et al. **Ann Emerg Med** 1990 May; 19(5):577-9

Local anesthesia in pediatric patients: topical TAC versus lidocaine. Anderson AB, et al. **Ann Emerg Med** 1990 May; 19(5):519-22

Effects of epidural block with lignocaine and lignocaine-adrenaline on umbilical artery velocity wave ratios. Marx GF, et al. **Br J Obstet Gynaecol** 1990 Jun; 97(6):517-20

Scalp infiltration with bupivacaine in paediatric brain surgery. Hartley E, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S129

Tetracaine with epinephrine as an alternative to cocaine intranasally [letter] Courtiss EH. **Plast Reconstr Surg** 1990 Jul;86(1):167

The interaction between ethanol and amiodarone, in the model of adrenaline arrhythmia in the rat. Filipek B, et al. **Pol J Pharmacol Pharm** 1989 May-Jun;41(3):213-8

Local anesthesia with TAC [letter; comment] Cannon CR. **South Med J** 1990 May;83(5):601 Comment on: South Med J 1989 Nov;82(11):1344-6.

This and that: neither epinephrine nor adrenaline. Max B. **Trends Pharmacol Sci** 1988 Dec;9(12):432-4

The formation of singlet oxygen during oxidation of catechol amines as detected by infrared chemiluminescence and spectrophotometric method. Kruk I, et al. **Z Naturforsch [C]** 1989 Nov-Dec;44(11-12):895-900

Epinephrine enhanced positive contrast shoulder arthrography in the dog. van Bree H. **Zentralbl Veterinarmed [A]** 1989 Nov;36(9):687-91

[Fentanyl with or without adrenaline in peridural administration in obstetrics: plasma analysis and analgesic effects] Henry M, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R62 **(Fre)**

ADMINISTRATION & DOSAGE

The relationship between some beta-adrenergic mediated responses and plasma concentrations of adrenaline and cyclic AMP in man. Philipsen EK, et al. **Acta Endocrinol (Copenh)** 1990 Jan;122(1):115-20

A bisulfite-free intraocular epinephrine solution. Slack JW, et al. **Am J Ophthalmol** 1990 Jul 15;110(1):77-82

Ventricular arrhythmogenic dose of epinephrine in dogs and cats anesthetized with tiletamine/zolazepam and halothane. Bednarski RM, et al. **Am J Vet Res** 1990 Sep;51(9):1468-70

Effect of epinephrine on the duration of dibucaine (cinchocaine) spinal anesthesia. Beavis RE. **Anesth Analg** 1989 Dec;69(6):819-21

Prolongation of postoperative epidural sufentanil analgesia with epinephrine. Leicht CH, et al. **Anesth Analg** 1990 Mar; 70(3):323-5

Comparison of standard versus high-dose epinephrine in the resuscitation of cardiac arrest in dogs. Brunette DD, et al. **Ann Emerg Med** 1990 Jan;19(1):8-11

TAC use and absorption of cocaine in a pediatric emergency department. Fitzmaurice LS, et al. **Ann Emerg Med** 1990 May;19(5):515-8

Optimal dose of epinephrine [letter; comment] Koscove E. **Ann Emerg Med** 1989 Nov;18(11):1258-9 Comment on: Ann Emerg Med 1989 Mar;18(3):250-3.

Four case studies: high-dose epinephrine in cardiac arrest. Martin D, et al. **Ann Emerg Med** 1990 Mar;19(3):322-6

High dose epinephrine in refractory pediatric cardiac arrest. Goetting MG, et al. **Crit Care Med** 1989 Dec; 17(12):1258-62

Effect of submucosal epinephrine injection on local gastric blood flow. A study using laser Doppler flowmetry and reflectance spectrophotometry. Chung SC, et al. **Dig Dis Sci** 1990 Aug;35(8):1008-11

Feasibility of intracardiac injection of drugs during cardiac arrest. Jespersen HF, et al. **Eur Heart J** 1990 Mar; 11(3):269-74

Intracorporeal self-injection with epinephrine as treatment for idiopathic recurrent priapism. van Driel MF, et al. **Eur Urol** 1990;17(1):95-6

Adrenaline and sudden death. Hiatt N, et al. **Horm Metab Res** 1990 Feb;22(2):126-7

Neutralized lidocaine with epinephrine for local anesthesia--II. Stewart JH, et al. **J Dermatol Surg Oncol** 1990 Sep;16(9):842-5

Combined epidural lidocaine-fentanyl-epinephrine for cesarean section. Poon YY, et al. **Ma Tsui Hsueh Tsa Chi** 1989 Jun;27(2):143-8

Protein synthesis in liver following infusion of the catabolic hormones corticosterone, epinephrine, and glucagon in rats. Pedersen P, et al. **Metabolism** 1989 Oct;38(10):927-32

Limbal anesthesia for cataract surgery. Furuta M, et al. **Ophthalmic Surg** 1990 Jan;21(1):22-5; discussion 26

Influence of topical anesthesia on the sedation of pediatric emergency department patients with lacerations. Pierluisi GJ, et al. **Pediatr Emerg Care** 1989 Dec;5(4):211-5

Endotracheal epinephrine is unreliable. Orlowski JP, et al. **Resuscitation** 1990 Apr;19(2):103-13

Topical TAC (tetracaine, adrenaline, cocaine) solution for local anesthesia in children: prescribing inconsistency and acute toxicity [see comments] Tipton GA, et al. **South Med J** 1989 Nov;82(11):1344-6 Comment in: South Med J 1990 May;83(5):601.

High-dose epinephrine therapy and other advances in treating cardiac arrest [clinical conference] Callaham ML. **West J Med** 1990 Jun;152(6):697-703 (32 ref.)

[High-dose adrenaline in the treatment of severe hypotensive crisis caused by a disulfiram-ethanol reaction] Møller LM, et al. **Ugeskr Laeger** 1990 Aug 20;152(34):2437-8 (Eng. Abstr.) **(Dan)**

[Dissecting duodenal hematoma: severe complication of endoscopic hemostasis of hemorrhagic duodenal ulcer (letter)] Peillon C, et al. **Gastroenterol Clin Biol** 1990; 14(3):289-91 **(Fre)**

[Endobronchial dose of adrenalin (letter)] Wedig M. **Dtsch Med Wochenschr** 1990 Apr 6;115(14):558 **(Ger)**

[Acute latent myocarditis appearing with ventricular fibrillation after intranasal administration of adrenaline. Description of a case] Tamburino C, et al. **Cardiologia** 1989 Sep;34(9):803-6 (Eng. Abstr.) **(Ita)**

[Evaluation of endoscopic local injection of hypertonic saline- epinephrine solution and surgical treatment on hemorrhagic gastroduodenal ulcer] Ikeda Y, et al. **Nippon Geka Gakkai Zasshi** 1989 Sep;90(9):1545-7 (Eng. Abstr.) **(Jpn)**

[Asthmatic crises and adrenaline--200 administrations in a patient] Kovač D, et al. **Vojnosanit Pregl** 1990 Mar-Apr; 47(2):129-31 **(Scr)**

ADVERSE EFFECTS

Problems with high-dose epinephrine therapy. Karch SB. **Am J Forensic Med Pathol** 1990 Jun;11(2):178-9

Comparison of arrhythmogenic doses of epinephrine in heartworm-infected and noninfected dogs. Venugopalan CS, et al. **Am J Vet Res** 1989 Nov;50(11):1872-6

Esmolol in the management of epinephrine- and cocaine-induced cardiovascular toxicity. Pollan S, et al. **Anesth Analg** 1989 Nov;69(5):663-4

Treatment of accidental epinephrine injection in a finger [letter] Deshmukh N, et al. **J Emerg Med** 1989 Jul-Aug; 7(4):408

[Correction of catecholamine-induced myocardial damage with ionol] Markova EA, et al. **Fiziol Zh** 1990 Mar-Apr; 36(2):88-91 (Eng. Abstr.) **(Rus)**

ANALOGS & DERIVATIVES

Isomer specific kinetics of dopamine beta-hydroxylase and arylsulfatase towards catecholamine sulfates. Strobel G, et al. **Biochem Int** 1990;20(2):343-51

Improved sample preparation in determination of urinary metanephrines by liquid chromatography with electrochemical detection. Gupta RN. **Clin Chem** 1990 Mar; 36(3):538-40

Evaluation of ocular hypersensitivity to dipivalyl epinephrine by component eye-drop testing. Petersen PE, et al. **J Allergy Clin Immunol** 1990 May;85(5):954-8

[Dipivefrin: its mechanism of action, clinical efficacy and good tolerance] Harper DG, et al. **Ophtalmologie** 1989 Sep-Dec;3(4):306-7 (Eng. Abstr.) **(Fre)**

[Efficacy and tolerance of dipivephrin] Sellem E, et al. **Ophtalmologie** 1989 Jun-Aug;3(3):223-4 (Eng. Abstr.) **(Fre)**

[Clinical significance of metanephrine and normetanephrine analysis in endocrine tests of the adrenal medulla and sympathetic nervous system] Iwaoka T, et al. **Nippon Rinsho** 1989 Dec;48 Suppl:1186-9 **(Jpn)**

ANALYSIS

Separation and culture of living adrenaline- and noradrenaline-containing cells from bovine adrenal medullae. Moro MA, et al. **Anal Biochem** 1990 Mar; 185(2):243-8

Effect of intravenous epinephrine on serum magnesium and free intracellular red blood cell magnesium concentrations measured by nuclear magnetic resonance. Ryzen E, et al. **J Am Coll Nutr** 1990 Apr;9(2):114-9 (54 ref.)

High-performance liquid chromatographic analysis of catecholamines in biological samples by liquid/liquid

extraction prepurification. Tsuchiya H, et al. **J Pharmacol Methods** 1990 Mar;23(1):21–30

Monoamines in pancreatic islets of guinea pig, hamster, rat, and mouse determined by high performance liquid chromatography. Lundquist I, et al. **Pancreas** 1989; 4(6):662–7

Relationship between pituitary ACTH content and hypothalamic catecholamines in the rat. Lehnert H, et al. **Res Exp Med (Berl)** 1989;189(4):289–93

[The ratio of the contents of beta-endorphin, adrenaline and noradrenaline in the hypothalamus of rats with an experimental stomach ulcer and during acupuncture] Bragin EO, et al. **Fiziol Zh SSSR** 1989 Jul;75(7):917–22 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Combined inhibitory effects of aspirin and ethanol on adrenaline exacerbation of acute platelet thrombus formation in stenosed canine coronary arteries [published erratum appears in Cardiovasc Res 1990 Jun;24(6):520] Keller JW, et al. **Cardiovasc Res** 1990 Mar;24(3):191–7

Inhibition by indomethacin of the increased facility of outflow induced by adrenaline. Anderson L, et al. **Exp Eye Res** 1990 Feb;50(2):119–26

Epinephrine-induced enhancement of sympathetic activity in humans: inhibition by nonselective as well as beta 1-selective beta-adrenoceptor blockade. van den Meiracker AH, et al. **J Cardiovasc Pharmacol** 1990 Apr; 15(4):610–7

Failure of propranolol to inhibit the epinephrine-induced enhancement of responses to sympathetic nerve stimulation in the rat mesenteric vascular bed. Falckh PH, et al. **J Pharmacol Exp Ther** 1990 May;253(2):432–6

Insulin inhibits the increased contractile force induced by epinephrine in isolated guinea pig heart muscle. Abe K, et al. **Resuscitation** 1990 Jan;19(1):17–24

BIOSYNTHESIS

Lung epinephrine synthesis. Kennedy B, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):L227–31

Epinephrine synthesis in rat skin by an N-methyltransferase. Elayan H, et al. **Arch Dermatol Res** 1990;282(3):194–7

Effect of monoamine oxidase inhibition on catecholamine levels: evidence for synthesis but not storage of epinephrine in rat spinal cord. Sved AF. **Brain Res** 1990 Apr 2; 512(2):253–8

Cardiac atria and ventricles contain different inducible adrenaline synthesising enzymes. Elayan HH, et al. **Cardiovasc Res** 1990 Jan;24(1):53–6

The determination of the adrenal medullary cell fate during embryogenesis. Seidl K, et al. **Dev Biol** 1989 Dec; 136(2):481–90

Epinephrine synthesis by an N-methyltransferase in rat liver. Elayan H, et al. **Gastroenterology** 1990 Jan;98(1):152–5

Epinephrine synthesis in the rat iris. Elayan H, et al. **Invest Ophthalmol Vis Sci** 1990 Apr;31(4):677–80

Rat renal epinephrine synthesis. Ziegler MG, et al. **J Clin Invest** 1989 Oct;84(4):1130–3

Catecholamine secretion in fetal adaptation to stress. Copper RL, et al. **J Obstet Gynecol Neonatal Nurs** 1990 May–Jun; 19(3):223–6

[Are there correlations of hormonal activity in pheochromocytoma and serum as well as erythrocyte sodium and potassium concentrations in patients with pheochromocytoma] Wocial B, et al. **Kardiol Pol** 1989;32 Suppl 1:36–42 (Eng. Abstr.) **(Pol)**

BLOOD

Aortic surgery: effect of clonidine on intraoperative catecholaminergic and circulatory stability. Quintin L, et al. **Acta Anaesthesiol Scand** 1990 Feb;34(2):132–7

Plasma levels of atrial natriuretic factor and catecholamines in endotoxin shock in dogs. Gullichsen E, et al. **Acta Chir Scand** 1989 Nov–Dec;155(11–12):567–71

Mental stress and adrenaline increase plasma growth factor activity in humans. Larsson PT, et al. **Acta Physiol Scand** 1989 Dec;137(4):565–6

Platelet catecholamine contents are cumulative indexes of sympathoadrenal activity. Chamberlain KG, et al. **Am J Physiol** 1990 Aug;259(2 Pt 1):E141–7

Influence of acid–base status on plasma catecholamines during exercise in normal humans. Goldsmith SR, et al. **Am J Physiol** 1990 Jun;258(6 Pt 2):R1411–6

Renal sympathetic nerve activity and plasma catecholamines during eating in cats. Matsukawa K, et al. **Am J Physiol** 1989 Nov;257(5 Pt 2):R1034–9

Capsaicin-sensitive nerves are required for glucostasis but not for catecholamine output during hypoglycemia in rats. Zhou XF, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E212–9

Effects of collection methods and storage on the in vitro stability of canine plasma catecholamines. D'Alesandro MM, et al. **Am J Vet Res** 1990 Feb;51(2):257–9

Primary hyperepinephrinemia in patients without pheochromocytoma. Streeten DH, et al. **Arch Intern Med** 1990 Jul;150(7):1528–33

Cardiac and neuroendocrine responses to exposure therapy in height phobics: desynchrony within the 'physiological response system'. Abelson JL, et al. **Behav Res Ther** 1989; 27(5):561–7

Effect of hyperthyroidism and hypothyroidism on rat red blood cell insulin receptors and catecholamines: relationship with cellular ageing. Azam M, et al. **Biochem Int** 1990;21(1):135–44

Adrenergic status in anxiety disorders: platelet alpha 2-adrenergic receptor binding, blood pressure, pulse, and plasma catecholamines in panic and generalized anxiety disorder patients and in normal subjects. Cameron OG, et al. **Biol Psychiatry** 1990 Jul 1;28(1):3–20

The effects of smoking on the mood, cardiovascular and adrenergic reactivity of heavy and light smokers in a non-stressful environment. Cinciripini PM, et al. **Biol Psychol** 1989 Dec;29(3):273–89

The influence of noise stress on plasma epinephrine and its binding to plasma protein in the rat. Schmid P, et al. **Biomed Biochim Acta** 1989;48(7):453–6

Physiologic exercise-induced lymphocytosis [letter] Martina B, et al. **Blut** 1990 Apr;60(4):255–6

Ambulatory pulmonary arterial pressure in primary pulmonary hypertension: variability, relation to systemic arterial pressure, and plasma catecholamines. Richards AM, et al. **Br Heart J** 1990 Feb;63(2):103–8

Pressor and catecholamine response to nasal intubation of the trachea. Meiklejohn BH, et al. **Br J Anaesth** 1989 Sep; 63(3):283–6

Anxiety, type A personality and endocrine responses to surgery. Salmon P, et al. **Br J Clin Psychol** 1989 Sep;28 (Pt 3):279–80

Effects of intrathecal administration of thyrotropin releasing hormone and its analogue, DN1417, on plasma glucose and catecholamine levels in conscious rats. Ishikawa Y, et al. **Brain Res** 1990 Apr 23;514(1):1–4

Plasma epinephrine modulates the cerebrovasodilation evoked by electrical stimulation of dorsal medulla. Lacombe PM, et al. **Brain Res** 1990 Jan 1;506(1):93–100

Transient increase in plasma catecholamines following hypertonic/hyperosmotic fluid administration in conscious rats. Carroll RG, et al. **Braz J Med Biol Res** 1989; 22(2):241–4

Catecholamine level and plasma renin activity during induced hypotension—adenosine vs sodium nitroprusside. Lam AM, et al. **Can J Anaesth** 1990 May;37(4 Pt 2):S31

Differences in bleeding time, aspirin sensitivity and adrenaline between acute myocardial infarction and unstable angina. Kristensen SD, et al. **Cardiovasc Res** 1990 Jan;24(1):19–23

Platelet and plasma catecholamines in relation to plasma minerals and parathyroid hormone following acute myocardial infarction. Joborn H, et al. **Chest** 1990 May; 97(5):1098–105

Humoral changes in shock induced by cardiac tamponade. Kaszaki J, et al. **Circ Shock** 1989 Oct;29(2):143–53

Enflurane alters compensatory hemodynamic and humoral responses to hemorrhage. Mayer N, et al. **Circ Shock** 1990 Feb;30(2):165–78

Effects of psychological and physical covariates on plasma catecholamines in borderline hypertensives and offspring of hypertensive parents. Perini C, et al. **Clin Exp Hypertens [A]** 1990;12(2):137–50

Catecholamine concentrations during exposure of resting man to the heat of a standard sweat test. Wilkinson R, et al. **Clin Exp Pharmacol Physiol** 1988 Oct;15(10):789–93

Influence of local beta-adrenoceptor blockade on exchange of fat and glucose in the human leg after surgery. Håkanson E, et al. **Clin Physiol** 1990 Mar;10(2):147–54

Neuropeptide Y is released together with noradrenaline from the human heart during exercise and hypoxia. Kaijser L, et al. **Clin Physiol** 1990 Mar;10(2):179–88

Effects of oxygen withdrawal on catecholamine release in patients on home oxygen therapy. Balter MS, et al. **Clin Sci** 1990 Aug;79(2):155–9

Catecholamines: study of interspecies variation. Hart BB, et al. **Crit Care Med** 1989 Nov;17(11):1203–22 (221 ref.)

Head injury: clonidine decreases plasma catecholamines. Payen D, et al. **Crit Care Med** 1990 Apr;18(4):392–5

Plasma adrenaline kinetics in type 1 (insulin-dependent) diabetic patients with and without autonomic neuropathy. Dejgaard A, et al. **Diabetologia** 1989 Nov;32(11):810–3

The activity of the renin–angiotensin–aldosterone system before and during submaximal bicycle exercise in relation to circulatory catecholamines in patients with type 1 (insulin-dependent) diabetes mellitus. Sundkvist G, et al. **Diabetologia** 1990 Mar;33(3):148–51

Critical comments on the classic concept of hypoglycemia induced epinephrine secretion. Porta S, et al. **Endocrinol Exp** 1990 Mar;24(1–2):143–9

In the rat, interleukin-1 alpha and -beta stimulate adrenocorticotropin and catecholamine release. Rivier C, et al. **Endocrinology** 1989 Dec;125(6):3096–102

Energy metabolism and regulatory hormones in women and men during endurance exercise. Friedmann B, et al. **Eur J Appl Physiol** 1989;59(1–2):1–9

Quantitative correlation between cardiovascular and plasma epinephrine response to mental stress. Kaji Y, et al. **Eur J Appl Physiol** 1989;59(3):221–6

Activation of the sympathoadrenal system in rats during hypokinesia. Macho L, et al. **Exp Clin Endocrinol** 1989 Sep; 94(1–2):127–32

Prostanoids and catecholamines after oral administration of natural progesterone. Tapanainen J, et al. **Gynecol Endocrinol** 1989 Jun;3(2):135–42

Cardiovascular and neurohumoral responses to behavioral challenge as a function of race and sex. Tischenkel NJ, et al. **Health Psychol** 1989;8(5):503–24

Altered pituitary hormone response to naloxone in hypertension development. McCubbin JA, et al. **Hypertension** 1989 Dec;14(6):636–44

Biochemical changes in the mother and the fetus during labor and its significance for the management of the second stage. Schneider H, et al. **Int J Gynaecol Obstet** 1990 Feb; 31(2):117–26

Beta-endorphin, catecholamines, and cortisol during exhaustive endurance exercise. Schwarz L, et al. **Int J Sports Med** 1989 Oct;10(5):324–8

Plasma catecholamine concentration during sedation in ventilated patients requiring intensive therapy. Kong KL, et al. **Intensive Care Med** 1990;16(3):171–4

Influence of plasma catecholamines on the lactate threshold during graded exercise. Mazzeo RS, et al. **J Appl Physiol** 1989 Oct;67(4):1319–22

Adrenergic responses to cognitive activity in a cold environment. Thomas JR, et al. **J Appl Physiol** 1990 Mar; 68(3):962–6

Plasma catecholamine responses to exercise after training with beta-adrenergic blockade. Wolfel EE, et al. **J Appl Physiol** 1990 Feb;68(2):586–93

Hemodynamic and catecholamine responses associated with extracorporeal shock wave lithotripsy. Behnia R, et al. **J Clin Anesth** 1990 May–Jun;2(3):158–62

Changes in plasma epinephrine concentration after dental infiltration anesthesia with different doses of epinephrine. Knoll-Köhler E, et al. **J Dent Res** 1989 Jun;68(6):1098–101

Multiple venous sampling for catecholamine assay in the diagnosis of malignant pheochromocytoma. Pontremoli R, et al. **J Endocrinol Invest** 1989 Oct;12(9):647–9

Effect of shosaikoto on plasma catecholamines. Amagaya S, et al. **J Ethnopharmacol** 1989 Oct;26(3):271–6

Effect of oral propranolol on circulating catecholamines in cirrhosis: relationship to severity of liver disease and splanchnic haemodynamics. Bendtsen F, et al. **J Hepatol** 1990 Mar;10(2):198–204

Effects of treatment with captopril on exercise tolerance and plasma catecholamines in elderly hypertensives. Kusaka M, et al. **J Hypertens Suppl** 1989 Sep;7(7):S59–61

Effects of noradrenaline infusion on platelet catecholamine levels and platelet aggregation. Tomlinson B, et al. **J Hypertens Suppl** 1989 Dec;7(6):S166–7

Gamma 2-MSH in congestive heart failure: relation to atrial natriuretic peptide, arginine vasopressin and catecholamines. Edvinsson L, et al. **J Intern Med** 1990 Mar; 227(3):183–7

Vascular responsiveness to norepinephrine in sympathicotonic orthostatic intolerance. Miller JW, et al. **J Lab Clin Med** 1990 May;115(5):549–58

Plasma epinephrine concentrations after intraosseous and central venous injection during cardiopulmonary resuscitation in the lamb. Andropoulos DB, et al. **J Pediatr** 1990 Feb;116(2):312–5

Role of plasma catecholamines in eliciting cardiovascular changes seen during naloxone-precipitated withdrawal in conscious, unrestrained morphine-dependent rats. Chang AP, et al. **J Pharmacol Exp Ther** 1990 Sep;254(3):857–63

Counter-regulatory hormone responses to human and porcine insulin induced hypoglycaemia [letter; comment] Kern W, et al. **Lancet** 1990 Feb 24;335(8687):485 Comment on: Lancet 1989 Oct 21;2(8669):946–9.

Exercise training produces changes in free and conjugated catecholamines. Bauer BA, et al. **Med Sci Sports Exerc** 1989 Oct;21(5):558–62

Impaired plasma catecholamine response to submaximal treadmill exercise in obese women. Gustafson AB, et al. **Metabolism** 1990 Apr;39(4):410–7

Simultaneous determination of plasma noradrenaline and adrenaline kinetics. Responses to nitroprusside-induced hypotension and 2-deoxyglucose-induced glucopenia in the rabbit. Medvedev OS, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Mar; 341(3):192–9

Blood pressure and plasma catecholamines in never-treated parkinsonian patients: effect of a selective D1 agonist (CY 208–243). Durrieu G, et al. **Neurology** 1990 Apr;40(4):707–9

Relationships of plasma catecholamines to open-field behavior after inescapable shock. Weyers P, et al. **Neuropsychobiology** 1989;22(2):108–16

Changes of plasma catecholamine concentration in dialysis induced hypotensive patients. Oguchi K, et al. **Nippon Jinzo Gakkai Shi** 1990 Mar;32(3):291–5

Maternal and fetal catecholamines and uterine incision-to-delivery interval during elective cesarean. Bader AM, et al. **Obstet Gynecol** 1990 Apr;75(4):600–3

Catecholamine levels and pacing behavior of QT-driven pacemakers during exercise. Jordaens L, et al. **PACE** 1990 May;13(5):603–7

The effect of transcutaneous electrical nerve stimulation (TENS) on catecholamine metabolism during pacing-induced angina pectoris and the influence of naloxone. Mannheimer C, et al. **Pain** 1990 Apr;41(1):27–34

Hemodynamic and neuroendocrine adaptations of the preterm lamb left ventricle to acutely increased afterload. Baylen BG, et al. **Pediatr Res** 1989 Oct;26(4):336–42

Increased cerebral blood flow and plasma epinephrine in hypoglycemic, preterm neonates. Pryds O, et al. **Pediatrics** 1990 Feb;85(2):172–6

Dynamics of plasma catecholamine and corticosterone concentrations during reinforced and extinguished operant behavior in rats. de Boer SF, et al. **Physiol Behav** 1990 Apr;47(4):691–8

Plasma catecholamine, corticosterone and glucose responses to repeated stress in rats: effect of interstressor interval length. De Boer SF, et al. **Physiol Behav** 1990 Jun; 47(6):1117–24

Plasma catecholamine and corticosterone levels during active and passive shock–prod avoidance behavior in rats: effects of chlordiazepoxide. De Boer SF, et al. **Physiol Behav** 1990 Jun;47(6):1089–98

The influence of maternal separation on plasma concentrations of ACTH, epinephrine, and norepinephrine in guinea pig pups. Hennessy MB, et al. **Physiol Behav** 1989 Jun;45(6):1147–52

Habituation and sensitization of plasma catecholamine responses to chronic intermittent stress: effects of stressor intensity. Konarska M, et al. **Physiol Behav** 1990 Apr; 47(4):647–52

Sensitization of sympathetic–adrenal medullary responses to a novel stressor in chronically stressed laboratory rats. Konarska M, et al. **Physiol Behav** 1989 Aug;46(2):129–35

The plasma catecholamine stress response is characteristic for a given animal over a one–year period. Taylor J, et al. **Physiol Behav** 1989 Nov;46(5):853–6

The effect of exogenous glucocorticoids on blood adrenaline and noradrenaline during catecholaminemia induced by splanchnic nerve stimulation. Całkosiński I, et al. **Pol J Pharmacol Pharm** 1989 Mar–Apr;41(2):139–46

Generalized anxiety disorder: some biochemical aspects. Munjack DJ, et al. **Psychiatry Res** 1990 Apr;32(1):35–43

Venous plasma epinephrine levels and the symptoms of stress. Cameron OG, et al. **Psychosom Med** 1990 Jul–Aug; 52(4):411–24

Peripheral catecholamine levels and the symptoms of anxiety: studies in patients with and without pheochromocytoma. Starkman MN, et al. **Psychosom Med** 1990 Mar–Apr; 52(2):129–42

Changes in plasma catecholamine levels after the intraperitoneal and intracerebroventricular administration of adenosine analogues and of clonidine in conscious rats. Laborit H, et al. **Res Commun Chem Pathol Pharmacol** 1990 Jun;68(3):307–27

Catecholamine release controlled by blood oxygen tension during deep hypoxia in trout: effect on red blood cell Na/H exchanger activity. Fiévet B, et al. **Respir Physiol** 1990 Jan;79(1):81–90

Plasma catecholamines, pH, and blood pressure during cardiac arrest in pigs. Lathers CM, et al. **Resuscitation** 1989 Oct;18(1):59–74

Endogenous and exogenous plasma catecholamine levels in cardiac arrest in swine. Schoffstall JM, et al. **Resuscitation** 1990 Jun;19(3):241–51

Exclusive use of calcium channel blockers in preoperative and intraoperative control of pheochromocytomas: hemodynamics and free catecholamine assays in ten consecutive patients. Proye C, et al. **Surgery** 1989 Dec; 106(6):1149–54

Beta–TG and plasma catecholamines levels after sympathetic stimuli in hypertensives and patients with peripheral vascular disease. Catalano M, et al. **Thromb Haemost** 1990 Jun 28;63(3):383–5

Plasma catecholamine activity in chronic lead poisoning. deCastro FJ. **Vet Hum Toxicol** 1990 Apr;32(2):152–3

[Studies on plasma catecholamine and myocardial adrenergic receptors in two strains of rats with different susceptibilities to chronic hypoxia] Liu TN. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1989 Dec; 11(6):457–9 (Eng. Abstr.) **(Chi)**

[Relation between plasma catecholamines, the severity of the liver disease and hemodynamics in patients with cirrhosis] Gaudin C, et al. **Gastroenterol Clin Biol** 1989 Aug–Sep; 13(8–9):701–6 (Eng. Abstr.) **(Fre)**

[Effects of various alfentanil doses on blood pressure, heart rate and plasma catecholamine level in endotracheal intubation] Tolksdorf W, et al. **Anasth Intensivther Notfallmed** 1990 Jun;25(3):198–202 (Eng. Abstr.) **(Ger)**

[Effects of cimetidine on plasma concentration of catecholamine and baroreflex control of heart rate in anesthetized humans] Kuramoto T, et al. **Masui** 1989 Jun; 38(6):736–40 (Eng. Abstr.) **(Jpn)**

[Correlation between the levels of catecholamines (noradrenaline, adrenaline) and adrenal steroids (DHA–S, cortisol) in maternal and fetal blood during pregnancy and labor] Suzuki A, et al. **Nippon Naibunpi Gakkai Zasshi** 1989 Aug 20;65(8):704–14 (Eng. Abstr.) **(Jpn)**

[Correlations of atrial natriuretic peptide and catecholamine levels in the blood during surgical removal of pheochromocytoma] Stępniakowski K, et al. **Kardiol Pol** 1989;32 Suppl 1:43–50 (Eng. Abstr.) **(Pol)**

[Effect of nifedipine on effective renal plasma flow, plasma renin activity and serum aldosterone, noradrenaline and adrenaline levels in healthy persons and in patients with primary moderate arterial hypertension] Halawa B, et al. **Pol Tyg Lek** 1989 Jul 23–30;44(30–31):707–9 (Eng. Abstr.) **(Pol)**

[Effect of isoptin on catecholamine levels in arterial and coronary venous blood during an attack of myocardial ischemia] Vakhliaev VD, et al. **Kardiologiia** 1989 Jul; 29(7):67–70 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Test doses: optimal epinephrine content with and without acute beta–adrenergic blockade. Guinard JP, et al. **Anesthesiology** 1990 Sep;73(3):386–92

Markers other than epinephrine to avoid intravascular injection of local anesthetic in the obstetric patient require more study [letter] Moore DC. **Anesthesiology** 1990 Sep; 73(3):576–8

A comparative study to evaluate the role of intra–articular adrenaline in double–contrast knee arthrography. Ng YY, et al. **Clin Radiol** 1989 Nov;40(6):598–601

Epinephrine and dDAVP administration in patients with congenital nephrogenic diabetes insipidus. Evidence for a pre–cyclic AMP V2 receptor defective mechanism. Bichet DG, et al. **Kidney Int** 1989 Nov;36(5):859–66

ISOLATION & PURIFICATION

Investigation on the enantiomeric impurity of epinephrine hydrochloride injections. Yang ZY, et al. **Chirality** 1989; 1(1):92–3

METABOLISM

The glucocorticoid receptor in the adrenal gland is localized in the cytoplasm of adrenaline cells. Ceccatelli S, et al. **Acta Physiol Scand** 1989 Dec;137(4):559–60

Comparison of clinic and home blood pressure levels and the role of the sympathetic nervous system in clinic–home differences. Saito I, et al. **Am J Hypertens** 1990 Mar; 3(3):219–24

Enhanced endogenous epinephrine release from the vascular adrenergic neurons in spontaneously hypertensive rats. Tsuda K, et al. **Am J Hypertens** 1990 Jan;3(1):52–4

Angiotensin augments epinephrine release in pithed rats fed a low–sodium diet. Vollmer RR, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R187–92

Immunohistochemical and biochemical analysis of the development of the noradrenaline– and adrenaline–storing cells in the adrenal medulla of the rat and pig. Verhofstad AA, et al. **Arch Histol Cytol** 1989;52 Suppl:351–60

Effect of substance P on catecholamine secretion from rat adrenal medulla in situ. Richter R, et al. **Biomed Biochim Acta** 1989;48(10):839–42

Corticosterone–dependent alterations in utilization of catecholamines in discrete areas of rat brain. Jhanwar–Uniyal M, et al. **Brain Res** 1989 Oct 23; 500(1–2):247–55

Involvement of amygdala pathways in the influence of post–training intra–amygdala norepinephrine and peripheral epinephrine on memory storage. Liang KC, et al. **Brain Res** 1990 Feb 5;508(2):225–33

Involvement of descending monoaminergic systems in the transmission of dental pain in the trigeminal nucleus caudalis of the rabbit. Yonehara N, et al. **Brain Res** 1990 Feb 5;508(2):234–40

Myocardial catecholamine content after heart transplantation [see comments] Regitz V, et al. **Circulation** 1990 Aug; 82(2):620–3 Comment in: Circulation 1990 Aug;82(2):658–60.

Effect of graded adrenaline infusion on arterial adrenaline clearance in normotensive and hypertensive man. Bachmann AW, et al. **Clin Exp Pharmacol Physiol** 1990 Apr;17(4):257–61

Involvement of hypothalamic adrenaline in the clonidine withdrawal syndrome in normotensive and spontaneously hypertensive rats. Lewis SJ, et al. **Clin Exp Pharmacol Physiol** 1988 Oct;15(10):773–80

Effects of splanchnic nerve stimulation on the adrenal cortex may be mediated by chromaffin cells in a paracrine manner. Bornstein SR, et al. **Endocrinology** 1990 Aug;127(2):900–6

Evidence that the 5–HT1A receptor agonists buspirone and ipsapirone activate adrenaline release in the conscious rat. Chaouloff F, et al. **Eur J Pharmacol** 1990 Feb 20; 177(1–2):107–10

Pentobarbital anaesthesia prevents the adrenaline–releasing effect of the 5–HT1A receptor agonist, 8–hydroxy–2–(di–n–propylamino) tetralin. Chaouloff F, et al. **Eur J Pharmacol** 1990 May 3;180(1):175–8

pH–dependent release of catecholamines from tyrosine hydroxylase and the effect of phosphorylation of Ser–40. Haavik J, et al. **FEBS Lett** 1990 Mar 26;262(2):363–5

Adrenaline released as a cotransmitter does not enhance stimulation–evoked 3H–noradrenaline release from rabbit isolated aorta. Abrahamsen J, et al. **J Auton Pharmacol** 1989 Oct;9(5):337–46

Beta–adrenoceptor blockade and sympathetic neurotransmission in the pithed rat. Majewski H, et al. **J Hypertens** 1989 Dec;7(12):991–6

Central regulation of adrenal tyrosine hydroxylase: effect of induction on catecholamine levels in the adrenal medulla and plasma. Regunathan S, et al. **J Neurochem** 1989 Dec; 53(6):1706–10

The effect of etorphine on nicotine– and muscarine–induced catecholamine secretion from perfused rat adrenal glands. Chen YM, et al. **Life Sci** 1990;46(16):1167–73

Norepinephrine triggers medullar epinephrine depletion during normoglycemia. Porta S, et al. **Life Sci** 1989; 45(19):1763–9

Age–related changes in adrenaline content of rat splanchnic blood vessels. Amenta F, et al. **Mech Ageing Dev** 1990 Feb 15;51(3):277–81

Evidence that 5–HT1A receptors are involved in the adrenaline–releasing effects of 8–OH–DPAT in the conscious rat. Chaouloff F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1990 Apr; 341(4):381–4

Hypovolaemia can potentiate hypoglycaemic stress–induced adrenaline release in the anaesthetized rat. McIntyre A, et al. **Neurosci Lett** 1990 May 4;112(2–3):269–75

Prostaglandin E2 support of adrenal medullary release of epinephrine in anephric dogs. Badder EM, et al. **Surg Forum** 1978;29:114–7

Catecholamine content of the penile corpora in patients with diabetes–associated impotence. Melman A, et al. **Surg Forum** 1978;29:634–6

[Effects of non–lethal scalding on the density and affinity of beta adrenoreceptors in cardiac muscle in rats] Prostran M, et al. **C R Soc Biol (Paris)** 1989;183(6):543–8 (Eng. Abstr.) **(Fre)**

[Plasma and urine catecholamines in a 7–day survival of parathion poisoning] Kauert G, et al. **Klin Wochenschr** 1990 Jan 19;68(2):96–100 (Eng. Abstr.) **(Ger)**

[Adrenomedullary epinephrine excretion and myocardial norepinephrine release during cardiopulmonary bypass] Konno S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1989 Aug;37(8):1451–8 (Eng. Abstr.) **(Jpn)**

[The role of biogenic amines in the mechanism of uterine hemorrhage in uterine myoma] Bel'skaia GD. **Akush Ginekol (Mosk)** 1990 Feb;(2):17–21 (Eng. Abstr.) **(Rus)**

[The effect of catecholamines on various components of lipolysis system during heart pathology] Efimova LV, et al. **Dokl Akad Nauk SSSR** 1989;309(2):497–500 **(Rus)**

[Changes in neutral peptide hydrolase levels in the blood and catecholamine levels in the tissues during adaptation to high altitude hypoxia] Ivashkevich AA, et al. **Fiziol Zh** 1989 Sep–Oct;35(5):59–64 (Eng. Abstr.) **(Rus)**

[Study of catecholamine secretion by the rat adrenal glands using microdialysis in vivo] Kuz'min AI, et al. **Fiziol Zh** 1990 Jan–Feb;36(1):14–20 (Eng. Abstr.) **(Rus)**

[The effect of a superhigh dose of ionizing radiation on the content of catecholamine mediators in different areas of the rat brain] Goncharenko EN, et al. **Radiobiologiia** 1989 Sep–Oct;29(5):709–11 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Differences in the neuronal removal of circulating epinephrine and norepinephrine. Eisenhofer G, et al. **J Clin Endocrinol Metab** 1990 Jun;70(6):1710–20

[Pharmacokinetics of drugs used during the period of cardiac support] Schüttler J. **Ann Fr Anesth Reanim** 1990; 9(3):208–11 (Eng. Abstr.) **(Fre)**

[Plasma level of lidocaine and adrenaline in local anesthesia with addition of colloid in eye surgery] Adams HA, et al. **Fortschr Ophthalmol** 1990;87(2):209–13 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Effects of adrenaline, an alpha 2–adrenoceptor agonist, the volume of injection, and the global pain state of the animal on the activity of epidural sufentanil. Meert TF, et al. **Acta Anaesthesiol Belg** 1989;40(4):247–61 (65 ref.)

The effect on uteroplacental blood flow of epidural anaesthesia containing adrenaline for caesarean section. Skjöldebrand A, et al. **Acta Anaesthesiol Scand** 1990 Feb; 34(2):85–9

Hemodynamic effects of interpleural analgesia in pigs. Strømskag KE, et al. **Acta Anaesthesiol Scand** 1990 Jul; 34(5):342–5

Hemodynamic effect of epidurally administered epinephrine in middle–aged and elderly patients. Tomoda MK, et al. **Acta Anaesthesiol Scand** 1989 Nov;33(8):647–51

The role of catecholamines in estradiol and progesterone secretion by cultured explants and cells of human term placentae. Barnea ER, et al. **Acta Endocrinol (Copenh)** 1989 Dec;121(6):767–72

Regional cerebral blood flow in acute hypertension induced by adrenaline, noradrenaline and phenylephrine in the conscious rat. Sokrab TE, et al. **Acta Physiol Scand** 1989 Sep;137(1):101–6

Deficient elevation of the cytoplasmic calcium ion concentration by epinephrine in epinephrine–insensitive platelets of patients with myeloproliferative disorders. Ushikubi F, et al. **Am J Hematol** 1990 Feb;33(2):96–100

Effects of muscarinic and beta–adrenergic blockade on the aortic elastic response to epinephrine induced acute hypertension in conscious dogs. Armentano R, et al. **Am J Hypertens** 1990 Jun;3(6 Pt 1):476–81

Effects of uremia, acetate and bicarbonate dialysis on beta–adrenergic responsiveness as assessed by epinephrine–stimulated adenylate cyclase. Fuiano G, et al. **Am J Nephrol** 1989;9(4):303–8

Effects and interactions of epinephrine, norepinephrine, timolol, and betaxolol on outflow facility in the cynomolgus monkey [published erratum appears in Am J Ophthalmol 1990 Apr 15;109(4):499] Robinson JC, et al. **Am J Ophthalmol** 1990 Feb 15;109(2):189–94

Dissociation of the effects of epinephrine and insulin on glucose and protein metabolism. Castellino P, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E117–25

Regulation of amino acid metabolism by epinephrine. Del Prato S, et al. **Am J Physiol** 1990 May;258(5 Pt 1):E878–87

Effect of beta–adrenergic blockade on lung liquid secretion during fetal asphyxia. Hooper SB, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):R705–10

Catecholamines relax portal and mesenteric veins from

normal and portal hypertensive rats. Kaumann AJ, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):G977–81

Catecholamine modulation of calcium currents in clonal pancreatic beta-cells. Keahey HH, et al. **Am J Physiol** 1989 Dec;257(6 Pt 1):C1171–6

Calcium and alpha-adrenergic regulation of Na-Cl(K) cotransport in rabbit tracheal epithelial cells. Liedtke CM. **Am J Physiol** 1990 Aug;259(2 Pt 1):L66–72

Enhanced thermogenic response to epinephrine after 48-h starvation in humans. Mansell PI, et al. **Am J Physiol** 1990 Jan;258(1 Pt 2):R87–93

Alpha-adrenergic effects on relative refractory period in Purkinje system of intact canine left ventricles. Martins JB, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):H1156–64

Effect of epinephrine on amino acid and energy metabolism in humans. Matthews DE, et al. **Am J Physiol** 1990 Jun; 258(6 Pt 1):E948–56

Atrial natriuretic factor in the elderly: diminished response to epinephrine. Morrow LA, et al. **Am J Physiol** 1989 Dec; 257(6 Pt 1):E866–70

Thermogenic effect of thyroid hormones: interactions with epinephrine and insulin. Piolino V, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):E305–11

Alterations in adipocyte response to lipolytic hormones during cold acclimation. Rochon L, et al. **Am J Physiol** 1990 May;258(5 Pt 1):C835–40

Somatotropin in lactating cows: effect on response to epinephrine and insulin. Sechen SJ, et al. **Am J Physiol** 1990 Apr;258(4 Pt 1):E582–8

Some factors influencing blood pressure of tooth pulp. Sticht FD. **Am J Physiol** 1967 Jun;212(6):1421–8

Renal responses to mental stress and epinephrine in humans. Tidgren B, et al. **Am J Physiol** 1989 Oct;257(4 Pt 2):F682–9

Catecholamines increase lymphocyte beta 2-adrenergic receptors via a beta 2-adrenergic, spleen-dependent process. Van Tits LJ, et al. **Am J Physiol** 1990 Jan;258(1 Pt 1):E191–202

Characterization of beta-adrenoreceptors on smooth muscle cells from guinea pig stomach. Zhang L, et al. **Am J Physiol** 1990 Sep;259(3 Pt 1):G436–42

Effect of adrenaline, fentanyl and warming of injectate on shivering following extradural analgesia in labour. Shehabi Y, et al. **Anaesth Intensive Care** 1990 Feb;18(1):31–7

Prolongation of postoperative epidural sufentanil analgesia with epinephrine [letter] Bromage PR, et al. **Anesth Analg** 1990 Oct;71(4):444–5

Epinephrine and phenylephrine increase cardiorespiratory toxicity of intravenously administered bupivacaine in rats. Kambam JR, et al. **Anesth Analg** 1990 May;70(5):543–5

Effect of epinephrine on central nervous system and cardiovascular system toxicity of bupivacaine in pigs. Bernards CM, et al. **Anesthesiology** 1989 Nov;71(5):711–7

Labor analgesia with epidural bupivacaine plus fentanyl: enhancement with epinephrine and inhibition with 2-chloroprocaine. Grice SC, et al. **Anesthesiology** 1990 Apr;72(4):623–8

Effect of epinephrine on intrathecal fentanyl analgesia in patients undergoing postpartum tubal ligation. Malinow AM, et al. **Anesthesiology** 1990 Sep;73(3):381–5

Effects of local anesthesia on nerve blood flow: studies using lidocaine with and without epinephrine. Myers RR, et al. **Anesthesiology** 1989 Nov;71(5):757–62

Metabolic, electrocardiographic, and hemodynamic responses to increased circulating adrenaline: effects of selective and nonselective beta adrenoceptor blockade. Hansen O, et al. **Angiology** 1990 Mar;41(3):175–88

Epinephrine versus norepinephrine [letter; comment] **Ann Emerg Med** 1990 Apr;19(4):442–5 Comment on: Ann Emerg Med 1989 Apr;18(4):336–40.

Effects of epinephrine and norepinephrine on cerebral oxygen delivery and consumption during open-chest CPR. Lindner KH, et al. **Ann Emerg Med** 1990 Mar;19(3):249–54

Effect of epinephrine on end-tidal carbon dioxide monitoring during CPR. Martin GB, et al. **Ann Emerg Med** 1990 Apr; 19(4):396–8

The effect of local anesthetics on bacterial proliferation: TAC versus lidocaine. Martin JR, et al. **Ann Emerg Med** 1990 Sep;19(9):987–90

Effect of epinephrine, propranolol, and verapamil on the chemiluminescence of neutrophils in duodenal ulcer patients. Markiewicz K, et al. **Arch Immunol Ther Exp (Warsz)** 1989;37(1–2):141–7

Adrenaline anorexia blocked by alpha and beta adrenergic antagonists in 24-h fasted rats. De-la-Cruz F, et al. **Behav Brain Res** 1990 Mar 5;37(2):145–8

Distinct mechanisms underlying memory modulation after the first and the second session of two avoidance tasks. Netto CA, et al. **Behav Neural Biol** 1990 Jan;53(1):29–38

Adrenergic and calcium-mediated subcellular redistribution of protein kinase C in primary neuronal cultures. Kalberg CJ, et al. **Biochem Biophys Res Commun** 1990 Jan 15; 166(1):22–8

Epinephrine-activation of heparin-nonreleasable lipoprotein lipase in 3 skeletal muscle fiber types of the rat. Miller WC, et al. **Biochem Biophys Res Commun** 1989 Oct 31; 164(2):615–9

Glucagon, cyclic AMP and adrenaline stimulate the degradation of low-density lipoprotein by cultured rat hepatocytes. Brown NF, et al. **Biochem J** 1989 Sep 1; 262(2):425–9

Desensitization of alpha 2-adrenergic receptors in NG 108 15 cells by (-)-adrenaline and phorbol 12-myristate 13-acetate. Convents A, et al. **Biochem J** 1989 Aug 15; 262(1):245–51

Potentiating effects of endothelin on platelet activation induced by epinephrine and ADP. Matsumoto Y, et al. **Biochem Pharmacol** 1990 Aug 15;40(4):909–11

Subacute carbon disulfide exposure modifies adrenergic cardiovascular actions in rats. Hoffmann P, et al. **Biomed Biochim Acta** 1990;49(1):115–20

Inhibition of human lecithin: cholesterol acyltransferase activity by catecholamines in vitro. Schauer UJ, et al. **Biomed Biochim Acta** 1989;48(10):849–52

Activation of protein kinase C in platelets by epinephrine and A23187: correlation with fibrinogen binding. Saitoh M, et al. **Blood** 1989 Nov 1;74(6):2001–6

Effect of adrenaline on venous plasma concentrations of bupivacaine after interpleural administration. Gin T, et al. **Br J Anaesth** 1990 Jun;64(6):662–6

Effect of adrenaline on placental transfer of bupivacaine in the perfused in situ rabbit placenta. Laishley RS, et al. **Br J Anaesth** 1989 Oct;63(4):439–43

Effect of adrenaline on the distribution of bupivacaine in the rabbit fetus. Laishley RS, et al. **Br J Anaesth** 1989 Dec; 63(6):721–5

Altered adrenoceptor responsiveness during adrenaline infusion but not during mental stress: differences between receptor subtypes and tissues. Larsson PT, et al. **Br J Clin Pharmacol** 1989 Dec;28(6):663–74

Evidence for tonic activation of prejunctional beta-adrenoceptors in guinea-pig pulmonary arteries by adrenaline derived from the adrenal medulla. Misu Y, et al. **Br J Pharmacol** 1989 Sep;98(1):45–50

Comparison of the prejunctional beta-adrenoceptor stimulating actions of adrenaline and isoprenaline in the dog mesenteric vein. Seki N, et al. **Br J Pharmacol** 1989 Aug;97(4):1324–30

Do both adrenaline and noradrenaline stimulate cardiac alpha-adrenoceptors to induce positive inotropy of rat atria? Williamson KL, et al. **Br J Pharmacol** 1989 Oct; 98(2):597–611

Excitatory and inhibitory effects of epinephrine on neonatal rat sympathetic preganglionic neurons in vitro. Miyazaki T, et al. **Brain Res** 1989 Sep 11;497(1):108–16

Effects of ACTH, epinephrine and Met-enkephalin on brain beta-endorphin-like immunoreactivity, and of ACTH, epinephrine, Met-enkephalin and naloxone on retention, in normal and in protein-malnourished rats. Perry ML, et al. **Braz J Med Biol Res** 1990;23(1):65–72

Modulatory effects of adrenergic agonists on testosterone secretion from rat dispersed testicular cells or Percoll-purified Leydig cells. Wanderley MI, et al. **Braz J Med Biol Res** 1989;22(11):1421–9

Epidural sufentanil for post-caesarean section analgesia: lack of benefit of epinephrine. McMorland GH, et al. **Can J Anaesth** 1990 May;37(4 Pt 1):432–7

Epidural epinephrine and the systemic circulation during peripheral vascular surgery. Salevsky FC, et al. **Can J Anaesth** 1990 Mar;37(2):160–5

Plasma lidocaine concentrations during continuous epidural infusion of lidocaine with and without epinephrine. Takasaki M, et al. **Can J Anaesth** 1990 Mar;37(2):166–9

Extracellular calcium and the inotropic effect of epinephrine on frog skeletal muscle. Williams JH, et al. **Can J Physiol Pharmacol** 1989 Dec;67(12):1574–9

Altered adrenergic response and specificity of the receptors in rat ascites hepatoma AH130. Sanae F, et al. **Cancer Res** 1989 Nov 15;49(22):6242–6

Importance of the redox state in vasoconstriction induced by adrenaline and serotonin. Papadopulos-Eleopulos E, et al. **Cardiovasc Res** 1989 Aug;23(8):662–5

Circulating calcium modulates adrenaline induced cyclic adenosine monophosphate production. Prielipp RC, et al. **Cardiovasc Res** 1989 Oct;23(10):838–41

Pharmacologic implications of alpha-adrenoreceptor interactive parameters for epinephrine enantiomers in the rat vas deferens. Rice PJ, et al. **Chirality** 1989;1(1):14–9

Naloxone potentiates contractile responses to epinephrine in isolated canine arteries. Caffrey JL, et al. **Circ Shock** 1990 Jul;31(3):317–32

Calcium attenuates epinephrine's beta-adrenergic effects in postoperative heart surgery patients. Zaloga GP, et al. **Circulation** 1990 Jan;81(1):196–200

Effects of adrenaline, isoprenaline and forskolin on pregnant human myometrial preparations. Story ME, et al. **Clin Exp Pharmacol Physiol** 1988 Sep;15(9):703–13

Response of atrial natriuretic peptide to adrenaline and noradrenaline infusion in man. Tunny TJ, et al. **Clin Exp Pharmacol Physiol** 1988 Apr;15(4):299–303

Cardiovascular and metabolic response to adrenaline infusion in weight-losing patients with and without cancer. Drott C, et al. **Clin Physiol** 1989 Oct;9(5):427–39

Effects of prolonged adrenaline infusion and of mental stress on plasma minerals and parathyroid hormone [published erratum appears in Clin Physiol 1990 Jul;10(4):403] Joborn H, et al. **Clin Physiol** 1990 Jan;10(1):37–53

Stress hormones given to healthy volunteers alter the concentration and configuration of ribosomes in skeletal muscle, reflecting changes in protein synthesis. Wernerman J, et al. **Clin Sci** 1989 Dec;77(6):611–6

Effect of epinephrine on glycogen phosphorylase-alpha in various preparations of rat liver. Kauffman FC, et al. **Comp Biochem Physiol [B]** 1990;96(1):113–8

Desensitization of the platelet aggregation response to adrenaline during insulin-induced hypoglycaemia in man. Trovati M, et al. **Diabetic Med** 1990 Jun;7(5):414–9

Response to selection for milk yield and metabolic challenges in primiparous dairy cows. Lukes AJ, et al. **Domest Anim Endocrinol** 1989 Oct;6(4):287–98

Galanin and epinephrine act on distinct receptors to inhibit insulin release by the same mechanisms including an increase in K+ permeability of the B-cell membrane. Drews G, et al. **Endocrinology** 1990 Mar;126(3):1646–53

Effect of diabetes on hormone-stimulated and basal hepatocyte calcium metabolism. Studer RK, et al. **Endocrinology** 1989 Nov;125(5):2421–33

Lipolytic response of adipocytes to epinephrine in sedentary and exercise-trained subjects: sex-related differences. Crampes F, et al. **Eur J Appl Physiol** 1989;59(4):249–55

Roles of the AMP-activated and cyclic-AMP-dependent protein kinases in the adrenaline-induced inactivation of acetyl-CoA carboxylase in rat adipocytes. Haystead TA, et al. **Eur J Biochem** 1990 Jan 12;187(1):199–205

Effects of atenolol and pindolol on the hypokalaemic and cardiovascular responses to adrenaline infusion. Forfang K, et al. **Eur J Clin Pharmacol** 1989;37(1):23–7

Decreased cyclic AMP accumulation in lymphocytes in response to adrenaline and prostacyclin after n-3 polyunsaturated fatty acid supplementation in man. Laustiola KE. **Eur J Clin Pharmacol** 1989;37(2):195–7

Effects of short-term exposure to noradrenaline and adrenaline on adrenoceptor responses. Deighton NM, et al. **Eur J Pharmacol** 1989 Oct 4;169(1):95–101

Homologous desensitization of the effects of endothelin on rabbit aorta rings and on cultured rat aorta smooth muscle cells. Miasiro N, et al. **Eur J Pharmacol** 1990 Apr 10; 179(1–2):151–8

The effects of exogenous epinephrine and environmental stress stimuli on the mitotic rates of larval urodele tissues. Chiakulas JJ, et al. **Exp Cell Res** 1966 Jan;41(1):197–205

Reversal of the epinephrine stimulation of Cl- transport in bullfrog cornea by phorbol esters. Reinach PS, et al. **Exp Eye Res** 1989 Nov;49(5):739–49

Identification of three in vivo phosphorylation sites on the glycogen-binding subunit of protein phosphatase 1 from rabbit skeletal muscle, and their response to adrenaline. Dent P, et al. **FEBS Lett** 1990 Jan 1;259(2):281–5

Modulation of calcitonin secretion by modification of calcium channels? Scherubl H, et al. **Henry Ford Hosp Med J** 1989; 37(3–4):198–200

Desipramine blocks augmented neurogenic vasoconstrictor responses to epinephrine. Floras JS, et al. **Hypertension** 1990 Feb;15(2):132–9

Time dependent effects of hormones on rate of protein synthesis in lymphoid organs of chickens. Pradhan RK, et al. **Indian J Exp Biol** 1989 Feb;27(2):193–5

An immunopharmacological analysis of adrenaline-induced suppression of human natural killer cell cytotoxicity. Hellstrand K, et al. **Int Arch Allergy Appl Immunol** 1989; 89(4):334–41

Effects of epinephrine on glucose-1,6-bisphosphate and carbohydrate metabolism in skin. Bassukevitz Y, et al. **Int J Biochem** 1989;21(11):1229–34

Some aspects of metabolic adaptations in lipid metabolism during starvation are mimicked by epinephrine in rat adipocytes. Casanova L, et al. **Int J Biochem** 1990; 22(1):19–23

Epinephrine for cardiac resuscitation: too much beta for its own good? [editorial; comment] Parmley WW. **J Am Coll Cardiol** 1990 Aug;16(2):495–6 Comment on: J Am Coll Cardiol 1990 Aug;16(2):489–94.

Tissue glucose utilization during epinephrine-induced hyperglycemia. Mészáros K, et al. **J Appl Physiol** 1989 Nov;67(5):1770–5

Beta-adrenergic and somatostatin receptors regulate Na-H exchange independent of cAMP. Barber DL, et al. **J Biol Chem** 1989 Dec 15;264(35):21038–42

Acute hormonal control of acetyl-CoA carboxylase. The roles of insulin, glucagon, and epinephrine. Mabrouk GM, et al. **J Biol Chem** 1990 Apr 15;265(11):6330–8

Regulation of S6 kinase activity in Madin-Darby canine kidney renal epithelial cells. Meier KE, et al. **J Biol Chem** 1990 Mar 15;265(8):4635–45

Refill status of the agonist-sensitive Ca2+ pool regulates Mn2+ influx into parotid acini. Mertz LM, et al. **J Biol Chem** 1990 Sep 5;265(25):15010–4

The relationship between the hypokalaemic response to adrenaline, beta-adrenoceptors, and Na(+)-K+ pumps in skeletal and cardiac muscle membranes in the rabbit. Elfellah MS, et al. **J Cardiovasc Pharmacol** 1990 Jan; 15(1):62–7

Modulation of the responses of fetal sheep to adrenergic stimulation by adrenal demedullation and chemical sympathectomy. Jones CT, et al. **J Dev Physiol** 1989 Jan; 11(1):45–54

Adrenaline infusion in man increases muscle sympathetic nerve activity and noradrenaline overflow to plasma. Persson B, et al. **J Hypertens** 1989 Sep;7(9):747–56

Production of endothelin by cultured porcine endothelial cells: modulation by adrenaline. Kohno M, et al **J Hypertens Suppl** 1989 Dec;7(6):S130–1

Adrenaline increases the rate of cross-bridge cycling in rat cardiac muscle. Saeki Y, et al. **J Mol Cell Cardiol** 1990 Apr;22(4):453–60

The role of thyroid hormones in maturation of the adrenaline-sensitive lung liquid reabsorptive mechanism in

fetal sheep. Barker PM, et al. **J Physiol (Lond)** 1990 May; 424:473–85

Effect of chronic cocaine administration and cocaine withdrawal on coronary flow rate and heart rate responses to epinephrine and cocaine in isolated perfused rat hearts. Avakian EV, et al. **Life Sci** 1990;46(22):1569–74

Sensitized guinea-pig lung: altered adenylate cyclase stimulation by epinephrine. Mathé AA, et al. **Life Sci** 1974 Dec 1;15(11):1917–24

Epinephrine-induced increase in glucose turnover is diminished during sepsis. Hargrove DM, et al. **Metabolism** 1989 Nov;38(11):1070–6

Effect of locally applied epinephrine and norepinephrine on blood flow and diameter in capillaries of rat mesentery. Dietrich HH. **Microvasc Res** 1989 Sep;38(2):125–35

Cholestasis, altered junctional permeability, and inverse changes in sinusoidal and biliary glutathione release by vasopressin and epinephrine. Ballatori N, et al. **Mol Pharmacol** 1990 Jul;38(1):64–71

Identification of a specific domain in the beta-adrenergic receptor required for phorbol ester-induced inhibition of catecholamine-stimulated adenylyl cyclase. Johnson JA, et al. **Mol Pharmacol** 1990 Sep;38(3):289–93

cAMP-dependent protein kinase responses of S49 cells are reduced by growth in low epinephrine concentrations. Prashad N, et al. **Mol Pharmacol** 1990 Jun;37(6):937–42

The positive inotropic effect of epinephrine on skeletal muscle: a brief review. Williams JH, et al. **Muscle Nerve** 1989 Dec;12(12):968–75 (92 ref.)

Anion channels activated by adrenaline in cardiac myocytes. Ehara T, et al. **Nature** 1990 Sep 20;347(6290):284–6

Adrenaline-induced enhancement of the blood pressure response to sympathetic nerve stimulation in adrenal demedullated pithed rats. Tarizzo VI, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1989 Aug; 340(2):144–50

Inhibition of Ca2+ and K+ channels in sympathetic neurons by neuropeptides and other ganglionic transmitters. Bley KR, et al. **Neuron** 1990 Mar;4(3):379–91

Clinical and pathological changes of the heart in brain death maintained with vasopressin and epinephrine. Kinoshita Y, et al. **Pathol Res Pract** 1990 Feb;186(1):173–9

Li+ inhibition of membrane current responses to epinephrine in guinea-pig ventricular cells. Matsuoka S, et al. **Pflugers Arch** 1989 Dec;415(3):384–6

Pretest beta-endorphin and epinephrine, but not oxotremorine, reverse retrograde interference of a conditioned emotional response in mice. Izquierdo I, et al. **Pharmacol Biochem Behav** 1989 Jul;33(3):545–8

Myocardial effects of adrenaline, isoprenaline and dobutamine at hypothermic conditions. Riishede L, et al. **Pharmacol Toxicol** 1990 May;66(5):354–60

Cocaine and lidocaine interfere with epinephrine-induced changes in intracellular calcium concentration and glucose efflux from rat hepatocytes. Engelking LR, et al. **Pharmacology** 1990;40(3):129–36

Time course of alpha 2-adrenoceptor desensitization induced by adrenaline infusion in man. Lübbecke F, et al. **Pharmacology** 1990;40(4):231–5

Epinephrine-induced pigment aggregation in goldfish melanophoroma cells: apparent involvement of an unknown second messenger. Chou SC, et al. **Pigment Cell Res** 1989 Sep-Oct;2(5):414–20

The effect of epinephrine in local anesthesia on the survival of full- and split-thickness skin grafts: an experimental study. Wolfort S, et al. **Plast Reconstr Surg** 1990 Sep; 86(3):535–40

Possible involvement of endogenous opioid peptides in prolactin secretion induced by alpha 2-adrenergic stimulation in rats. Koshiyama H, et al. **Proc Soc Exp Biol Med** 1989 Nov;192(2):105–8

(+) naloxone enhances vascular contractile responses to added epinephrine. Caffrey JL, et al. **Prog Clin Biol Res** 1990;328:375–8

Cross-bridge kinetics derived from isotonic segment dynamics in V1 and V3-containing rat cardiac muscles: effects of adrenaline and dibutyryl cyclic AMP. Saeki Y, et al. **Prog Clin Biol Res** 1989;315:595–6

Impairment of active avoidance by the noradrenergic neurotoxin, DSP4: attenuation by post-training epinephrine. Bennett MC, et al. **Psychopharmacology (Berl)** 1990;101(4):505–10

Modulation of liver tumor blood flow with hepatic arterial epinephrine: a SPECT study. Andrews JC, et al. **Radiology** 1989 Dec;173(3):645–7

Effects of exercise and adrenaline on equine erythrocyte ATP content. Snow DH, et al. **Res Vet Sci** 1990 Jul;49(1):77–81

The biological activity of adrenaline after injection through an intravenous cannula containing alkaline buffer. Gedebou, R, et al. **Resuscitation** 1989 Oct;18(1):49–58

Effect of high dose norepinephrine versus epinephrine on cerebral and myocardial blood flow during CPR. Hoekstra JW, et al. **Resuscitation** 1990 Jun;19(3):227–40

Septic shock: alterations in the second messenger system. Dion YM, et al. **Surg Forum** 1978;29:5–8

Platelet mobilization induced by PAF and its role in the thrombocytosis triggered by adrenaline in rats. Castro-Faria-Neto HC, et al. **Thromb Haemost** 1989 Dec 29;62(4):1107–11

Arterial thrombosis associated with immune thrombocytopenia: presence of a platelet aggregating IgG synergistic with thrombin and adrenalin. Jackson SP, et al. **Thromb Haemost** 1989 Nov 24;62(3):846–9

Association of reduced factor VIII with impaired platelet reactivity to adrenalin and collagen after total thyroidectomy. Palareti G, et al. **Thromb Haemost** 1989 Dec 29;62(4):1053–6

Proaggregatory effect of epinephrine on rabbit platelets inhibited by ticlopidine. Derian CK, et al. **Thromb Res** 1990 Feb 1;57(3):393–403

Sympathomimetic amine-induced potentiation of fibrinolytic activity is partly modulated by endogenous prostaglandins in the rat. Hussaini IM, et al. **Thromb Res** 1989 Sep 1; 55(5):611–7

Effect of exercise, DDAVP, and epinephrine on the factor VIII:C/von Willebrand factor complex in normal dogs and von Willebrand factor deficient Doberman pinscher dogs. Meyers KM, et al. **Thromb Res** 1990 Jan 1;57(1):97–108

Electrophysiologic effects of aspirin on myocardium: interaction with catecholamine. Regan TJ, et al. **Trans Assoc Am Physicians** 1988;101:257–63

Long-term renal preservation after brain death maintained with vasopressin and epinephrine. Kinoshita Y, et al. **Transpl Int** 1990 May;3(1):15–8

Hemodynamic stability and metabolic preservation of the liver under simultaneous administration of vasopressin and epinephrine in brain-dead dogs. Manaka D, et al. **Transplantation** 1990 Jun;49(6):1188–90

[Effects of the addition of adrenaline and clonidine on the kinetics of bupivacaine in the spinal canal] Boico O, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R210 (Fre)

[Effects of increased doses of adrenaline on the duration of spinal anesthesia with prilocaine] Gleizal B, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R165 (Fre)

[Does adrenaline diminish vascular resorption of bupivacaine administered in cervical plexus block?] Guirimand F, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R151 (Fre)

[Pharmacology of cardiopulmonary resuscitation] Hoffmann AC, et al. **Ann Fr Anesth Reanim** 1990;9(3):204–7 (17 ref.) (Eng. Abstr.) (Fre)

[Effects of xylocaine-adrenaline by intramuscular administration: dose-response effect and concentration effect] Samat C, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R40 (Fre)

[Pharmacological investigations on the adrenalin-thrombin-induced platelet aggregation in dogs] Nowak G, et al. **Folia Haematol (Leipz)** 1989;116(6):831–9 (Eng. Abstr.) (Ger)

[Cutaneous blood flow following subcutaneous infiltration of lidocaine with and without the addition of adrenaline or ornipressin] Fruhstorfer H, et al. **Reg Anaesth** 1990 Jun; 13(4):97–100 (Eng. Abstr.) (Ger)

[Epinephrine decreases plasma potassium] Kato S, et al. **Masui** 1990 Mar;39(3):315–9 (Eng. Abstr.) (Jpn)

[The effects of epinephrine added to epidural morphine] Yamamoto T, et al. **Masui** 1990 Feb;39(2):184–7 (Eng. Abstr.) (Jpn)

[Effect of adrenergic stimulation on lipolysis in obese and lean women in the in vitro conditions] Kucio C, et al. **Pol Arch Med Wewn** 1988 Jul;80(1):17–22 (Eng. Abstr.) (Pol)

[Inotropic reserve of the left ventricle in patients with chronic ischemic cardiopathy, studied using adrenaline stimulation. Prognostic significance] Ferreira R, et al. **Rev Port Cardiol** 1990 Jan;9(1):41–9 (Eng. Abstr.) (Por)

[Agonist-induced platelet adhesion: use of the method in patients with myocardial infarction] Atakha ova LE, et al. **Biull Eksp Biol Med** 1990 Feb;109(2):135–7 (Eng. Abstr.) (Rus)

[Catecholamine-induced changes of the kinetic properties of adrenergic receptors of the myocardium] Kozlov AG, et al. **Fiziol Zh** 1990 Jan-Feb;36(1):25–9 (Eng. Abstr.) (Rus)

[The characteristics of the changes in the aortic endothelium of old rabbits administered adrenaline] Kozhura IP, et al. **Patol Fiziol Eksp Ter** 1990 Jan-Feb;(1):35–7 (Eng. Abstr.) (Rus)

[The mechanism of action of hydrocortisone and adrenaline on the hepatic lysosomal apparatus] Panin LE, et al. **Probl Endokrinol (Mosk)** 1990 Jan-Feb;36(1):62–6 (Eng. Abstr.) (Rus)

[The cooperative effect of hydrocortisone, adrenaline and high-density lipoproteins in regulating liver hexokinase activity] Panin LE, et al. **Probl Endokrinol (Mosk)** 1990 Mar-Apr;36(2):83–6 (Eng. Abstr.) (Rus)

[Changes in the ratio of secreted thyroid hormones under the action of adrenaline, propranolol and thyrotropic hormone] Turakulov IaKh, et al. **Probl Endokrinol (Mosk)** 1989 Nov-Dec;35(6):76–8 (Eng. Abstr.) (Rus)

[A clinico-pharmacologic study of intraseptal spongiosa dental anesthesia with lidocaine and with/without adrenaline] Petrikas AZh. **Stomatologiia (Mosk)** 1990 Jan-Feb;69(1):27–9 (Eng. Abstr.) (Rus)

[Pharmacologic study of dopamine catabolites on the contractility of isolated guinea pig myocardium] Chávez-Lara B, et al. **Arch Inst Cardiol Mex** 1989 Jul-Aug; 59(4):367–73 (Eng. Abstr.) (Spa)

PHYSIOLOGY

Epinephrine potentiates calcium mobilization and activation of protein kinases in platelets stimulated by ADP through a mechanism unrelated to phospholipase C. Olbrich C, et al. **Cell Signal** 1989;1(5):483–92

Are adrenergic neurons subject to a serotoninergic influence in the nucleus tractus solitarii? A morphological and biochemical study in the rat. Kachidian P, et al. **Cell Tissue Res** 1989 Dec;258(3):603–10

Effects of circulating endogenous catecholamines on plasma glucose, potassium and magnesium. Corr LA, et al. **Clin Sci** 1990 Feb;78(2):185–91

A comparison of the effects of adrenaline and noradrenaline on human heart: the role of beta 1- and beta 2-adrenoceptors in the stimulation of adenylate cyclase and contractile force. Kaumann AJ, et al. **Eur Heart J** 1989 Jun;10 Suppl B:29–37

Hyperglycemic effect of epinephrine after pancreas devascularization in the eel. Epple A, et al. **Gen Comp Endocrinol** 1989 Aug;75(2):327–31

Chronic hyperinsulinemia and blood pressure. Interaction with catecholamines? Hall JE, et al. **Hypertension** 1990 May;15(5):519–27

Role of epinephrine in the development of hypertension in Dahl salt-sensitive rats. Johnson MD, et al. **Hypertension** 1990 Sep;16(3):282–9

Adrenaline facilitates neurogenic vasoconstriction in borderline hypertensive subjects. Floras JS, et al. **J Hypertens** 1990 May;8(5):443–8

Position in delivery [letter] Odent MR. **Lancet** 1990 May 12;335(8698):1166

Epinephrine exacerbates arthritis by an action at presynaptic B2-adrenoceptors. Coderre TJ, et al. **Neuroscience** 1990; 34(2):521–3

The effects of hypoxia on (methionine) enkephalin peptide and catecholamine release in fetal sheep. Martinez AM, et al. **Pediatr Res** 1990 Jan;27(1):52–5

Stress, catecholamines, and beta-adrenoceptor blockade. Greenwood DT. **Postgrad Med J** 1990;66 Suppl 2:S36–40 (50 ref.)

Hypotheses on the role of prostaglandins in the pathogenesis of epinephrine maculopathy and aphakic cystoid macular edema. Miyake K, et al. **Prog Clin Biol Res** 1989;312:265–76

[Immunohistochemical absence of adrenergic neurons in the dorsal part of the solitary tract nucleus in sudden infant death] Chigr F, et al. **C R Acad Sci [III]** 1989;309(12):543–9 (Eng. Abstr.) (Fre)

[Clinical significance of changes in the number and function of adrenergic receptors] Witkowska M. **Pol Arch Med Wewn** 1987 Apr;77(4):171–9 (0 ref.) (Pol)

[Endogenous beta-adrenomimetic substance as a constituent of the adrenergic beta receptor blocking mechanism] Pomaskin IN, et al. **Akush Ginekol (Mosk)** 1989 Aug; (8):23–7 (Eng. Abstr.) (Rus)

[Catecholamines and adrenergic receptors] Lebedeva RN, et al. **Anesteziol Reanimatol** 1990 May-Jun;(3):73–6 (64 ref.) (Rus)

[Morphofunctional features of lymph nodes, thyroid gland and testis of rats during adaptation reactions to stress and activation] Garkavi LKh, et al. **Biull Eksp Biol Med** 1989 Nov;108(11):634–7 (Eng. Abstr.) (Rus)

[Heat production as a criterion of adrenergic regulation of metabolic processes of the myocardium] Khomaziuk AI, et al. **Fiziol Zh** 1989 Sep-Oct;35(5):3–9 (Eng. Abstr.) (Rus)

POISONING

Epinephrine-induced vasospasm reversed by phentolamine digital block. Maguire WM, et al. **Am J Emerg Med** 1990 Jan;8(1):46–7

Labetalol in the treatment of epinephrine overdose. Larsen LS, et al. **Ann Emerg Med** 1990 Jun;19(6):680–2

THERAPEUTIC USE

Effects of epinephrine and ritodrine in dogs with acute hyperkalemia. Follett DV, et al. **Anesth Analg** 1990 Apr; 70(4):400–6

The efficacy of combinations of ocular hypotensive drugs. A tonographic approach. Kronfeld PC. **Arch Ophthalmol** 1967 Aug;78(2):140–6

Allergy to peanuts [letter] Ackroyd JF. **BMJ** 1990 Jul 14; 301(6743):120

Optimizing drug therapy during cardiopulmonary resuscitation [editorial; comment] Kern KB. **Chest** 1990 Jun;97(6):1281–2 Comment on: Chest 1990 Jun;97(6):1458–62.

Epinephrine and norepinephrine in cardiopulmonary resuscitation. Effects on myocardial oxygen delivery and consumption [see comments] Lindner KH, et al. **Chest** 1990 Jun;97(6):1458–62 Comment in: Chest 1990 Jun;97(6):1281–2.

Epinephrine versus methoxamine in survival postventricular fibrillation and cardiopulmonary resuscitation in dogs. Bleske BE, et al. **Crit Care Med** 1989 Dec;17(12):1310–3

Comparison of epinephrine and dopamine during cardiopulmonary resuscitation. Lindner KH, et al. **Intensive Care Med** 1989;15(7):432–8

Use of catecholamines in CPR [editorial] Vincent JL. **Intensive Care Med** 1989;15(7):420–1

Comparison of subcutaneous injections of terbutaline, salbutamol and adrenaline in acute asthmatic attacks in children. Phanichyakarn P. **J Med Assoc Thai** 1989 Dec; 72(12):692–6

Endoscopic haemostasis in non-variceal upper gastrointestinal haemorrhage using adrenaline injection. Steele RJ, et al. **J R Coll Surg Edinb** 1989 Jun;34(3):133–6

Nitroprusside–epinephrine therapy in acute myocardial ischemia. Pass HI, et al. **Surg Forum** 1978;29:310–2

[Adrenaline injection in the corpus cavernosum of the penis for the treatment of priapism] van Driel MF, et al. **Ned Tijdschr Geneeskd** 1990 Jan 6;134(1):17–20 (Eng. Abstr.) **(Dut)**

[Clinical effects of the addition of clonidine with and without adrenaline with peridural administration of lidocaine] Veillette Y, et al. **Ann Fr Anesth Reanim** 1989;8 Suppl:R206 **(Fre)**

[Severe gastroduodenal ulcer hemorrhage. Treatment with endoscopic injections of an epinephrine solution] Bour B, et al. **Presse Med** 1989 Oct 7;18(31):1505–8 (Eng. Abstr.) **(Fre)**

[Anaphylactic shock in swine. 6. Experimental studies of the therapeutic use of adrenalin] Wujanz G, et al. **Arch Exp Veterinarmed** 1989;43(4):613–22 (Eng. Abstr.) **(Ger)**

[Effects of combined instillation of dapiprazole and epinephrine on human anterior chamber depth, intraocular pressure and pupil diameter] Sugiyama T, et al. **Nippon Ganka Gakkai Zasshi** 1989 Apr;93(4):449–52 (Eng. Abstr.) **(Jpn)**

TOXICITY

A method for testing for epinephrine–induced arrhythmias in rats. Laster MJ, et al. **Anesth Analg** 1990 Jun;70(6):654–7

Myocardial sensitization by thiopental to arrhythmogenic action of epinephrine in dogs. Hayashi Y, et al. **Anesthesiology** 1989 Dec;71(6):929–35

Antioxidant protection against adrenaline–induced arrhythmias in rats with chronic heart hypertrophy. Kirshenbaum LA, et al. **Can J Cardiol** 1990 Mar;6(2):71–4

Oxygen–derived free radicals mediate the cutaneous necrotizing vasculitis induced by epinephrine in endotoxin–primed rabbits. Ward PH, et al. **J Infect Dis** 1990 May;161(5):1020–2

Protective effects of adrenoceptor–blocking agents on myocardial injury induced by epinephrine in mice. Kubota T, et al. **J Toxicol Sci** 1990 Feb;15(1):1–13

Toxic effects of catecholamines on skin. Burk RW 3d, et al. **Plast Reconstr Surg** 1990 Jan;85(1):92–9

[The effect of alpha–tocopherol on conditioned reflex activity in adrenaline–induced myocardial dystrophy in rats] Bekbolotova AK, et al. **Biull Eksp Biol Med** 1990 Mar; 109(3):211–3 (Eng. Abstr.) **(Rus)**

[The action of an enzymatically stable Leu–enkephalin analog on the prostanoid content in the myocardium under stress– and adrenaline–induced damage] Lishmanov IuB, et al. **Biull Eksp Biol Med** 1989 Jun;107(6):704–6 (Eng. Abstr.) **(Rus)**

[Lipid peroxidation in experimental adrenaline–induced glaucoma] Mikheltseva IN. **Oftalmol Zh** 1989;(7):427–8 (Eng. Abstr.) **(Rus)**

[Energy metabolism in arteries and veins in modelling epinephrine damage to the vascular wall] Byts' IuV, et al. **Patol Fiziol Eksp Ter** 1989 May–Jun;(3):63–6 (Eng. Abstr.) **(Rus)**

URINE

Urinary excretion of free norepinephrine and free epinephrine in patients with acute myocardial infarction in relation to its clinical course. Januszewicz W, et al. **Am Heart J** 1968 Sep;76(3):345–52

Determination of urinary norepinephrine and epinephrine by liquid chromatography with fluorescence detection and pre–column derivatization. Moleman P, et al. **Clin Chem** 1990 May;36(5):732–6

Hypothermia and the stress response to cardiopulmonary bypass. Taggart DP, et al. **Eur J Cardiothorac Surg** 1989; 3(4):359–63; discussion 364

Propranolol corrects the abnormal catecholamine response to light during migraine. Stoica E, et al. **Eur Neurol** 1990; 30(1):19–22

Circadian variation in urinary adrenaline levels in the rat after swimming exposure. Sudo A. **Ind Health** 1989; 27(3):135–9

Circadian variations of urinary dopamine, norepinephrine, epinephrine and sodium in normotensive and hypertensive subjects. Kawano Y, et al. **Nephron** 1990;55(3):277–82

Blood lipids as related to cardiovascular and neuroendocrine functions under different conditions in healthy males and females. Lundberg U, et al. **Pharmacol Biochem Behav** 1989 Jun;33(2):381–6

[The effect of a psychoemotional load on the cardiovascular system and catecholamines in subjects with different levels of arterial pressure] Kruchinina NA, et al. **Fiziol Zh SSSR** 1990 Jan;76(1):33–40 (Eng. Abstr.) **(Rus)**

[Adrenaline, noradrenaline and vanilmandelic acid in the urine in diabetics] Popović J, et al. **Srp Arh Celok Lek** 1987 Apr;115(4):431–41 (Eng. Abstr.) **(See)**

EPIPHYSEAL CARTILAGE see GROWTH PLATE

EPIPHYSEAL PLATE see GROWTH PLATE

EPIPHYSES

Epiphyseal osteoid osteoma. Two case reports. van Horn JR, et al. **Acta Orthop Scand** 1989 Oct;60(5):625–7 (16 ref.)

Epiphyseal dysplasia with coxa vara, microcephaly, and normal intelligence in sibs: expanded spectrum of Lowry–Wood syndrome? Hankenson LG, et al. **Am J Med Genet** 1989 Jul;33(3):336–40

Epiphyseal dysplasia, microcephaly, nystagmus, and retinitis pigmentosa. Lowry RB, et al. **Am J Med Genet** 1989 Jul; 33(3):341–5

Sever's disease and its relationship to equinus: a statistical analysis. Szames SE, et al. **Clin Podiatr Med Surg** 1990 Apr;7(2):377–84

ABNORMALITIES

Computed tomography in the diagnosis of dysplasia epiphysealis hemimelica. Gerscovich EO, et al. **Can Assoc Radiol J** 1989 Dec;40(6):313–5

ANALYSIS

[Characteristics of the acidic extract from the epiphysis and its fractions] Prokopenko NP, et al. **Vopr Med Khim** 1989 Jul–Aug;35(4):79–81 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

Necrosis of the femoral head in growing rats. Occlusion of lateral epiphyseal vessels. Hirano T, et al. **Acta Orthop Scand** 1989 Aug;60(4):407–10

Vascular invasion of the epiphyseal growth plate: analysis of metaphyseal capillary ultrastructure and growth dynamics. Hunter WL, et al. **Anat Rec** 1990 Jun; 227(2):223–31

The vascular supply of the chondro–epiphyses of the elbow joint in young swine. Visco DM, et al. **J Anat** 1989 Apr; 163:215–29

DRUG EFFECTS

[Epiphyseal bone pain caused by cyclosporin A in 28 patients with renal transplantation] Lucas V, et al. **Rev Rhum Mal Osteoartic** 1990 Jan;57(1):79–84 **(Fre)**

GROWTH & DEVELOPMENT

Postnatal epiphyseal development: the distal tibia and fibula. Love SM, et al. **J Pediatr Orthop** 1990 May–Jun; 10(3):298–305

Accessory ossification patterns and injuries of the malleoli. Ogden JA, et al. **J Pediatr Orthop** 1990 May–Jun; 10(3):306–16

Growth disturbance of the distal radial epiphysis after trauma: operative treatment by corrective radial osteotomy. Zehntner MK, et al. **J Pediatr Orthop** 1990 May–Jun; 10(3):411–5

INJURIES

Physeal phalangeal fracture with flexor tendon entrapment. A case report and review of the literature. Harryman DT 2d, et al. **Clin Orthop** 1990 Jan;(250):194–6 (9 ref.)

Epiphyseal fractures of the proximal tibia. Poulsen TD, et al. **Injury** 1989 Mar;20(2):111–3

Fractured capital femoral epiphysis in twin ewes. Morin DE, et al. **J Am Vet Med Assoc** 1989 Nov 15;195(10):1387–90

Complete detachment of the epiphysis of the distal phalanx. Savage R. **J Hand Surg [Br]** 1990 Feb;15(1):126–8

Tibial physeal closure and genu recurvatum after femoral fracture: occurrence without a tibial traction pin. Bowler JR, et al. **J Pediatr Orthop** 1990 Sep–Oct;10(5):653–7

Transphyseal fracture of the capital femoral epiphysis [clinical conference] Gaudinez RF, et al. **Orthopedics** 1989 Dec;12(12):1599–602

Traumatic posterior dislocation of the hip associated with separation of the capital epiphysis. Hougaard K, et al. **Orthopedics** 1990 Aug;13(8):891–4

The sternoclavicular joint in trauma: retrosternal dislocation versus epiphyseal fracture. Leighton D, et al. **Pediatr Radiol** 1989;20(1–2):126–7

Evaluation of an interfragmentary compression system for the repair of equine femoral capital physeal fractures. Hunt DA, et al. **Vet Surg** 1990 Mar–Apr;19(2):107–16

[Injuries to the upper tibial epiphysis. Apropos of 20 cases] Mestdagh H, et al. **Acta Orthop Belg** 1989;55(2):167–76 (Eng. Abstr.) **(Fre)**

[Intra–articular finger fractures in children] Sacchetto M, et al. **Z Kinderchir** 1989 Oct;44(5):286–8 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Physeal clefts and disturbed endochondral ossification in broiler fowls. Duff SR. **J Comp Pathol** 1989 Jul; 101(1):75–86

PHYSIOLOGY

In vivo determination of long bone flexibility—the epiphyses influence. Willinger R, et al. **Biomed Sci Instrum** 1990; 26:45–7

Biochemical parameters of osteogenesis in epiphysis of mice irradiated and repopulated with syngenic bone marrow. Włodarski KH, et al. **Folia Biol (Praha)** 1989;35(4):197–206

RADIOGRAPHY

Gage's sign—revisited! [letter] **J Pediatr Orthop** 1989 Sep–Oct;9(5):630

New procedure to remove a centrally located bone bar. Bollini G, et al. **J Pediatr Orthop** 1990 Sep–Oct;10(5):662–6

Craniofacial dysostosis (Crouzon's disease) associated with metaphyseal dysplasia (Pyle's disease) in the same subject. A roentgenologic study. Nardi P, et al. **Panminerva Med** 1989 Oct–Dec;31(4):192–7

SURGERY

Debridement of septic physeal lesions in 3 foals. Baird AN, et al. **Cornell Vet** 1990 Jan;80(1):85–95

Effect of interposition material on mechanical behavior in partial physeal resection: a canine model. Bueche MJ, et al. **J Pediatr Orthop** 1990 Jul–Aug;10(4):459–62

Viability and metabolism of cartilage transplanted to physeal regions. Lalanandham T, et al. **J Pediatr Orthop** 1990 Jul–Aug;10(4):450–8

The recovery of growth cartilage after removal of bone bridge between epiphysis and metaphysis. Yamashita F, et al. **Nippon Seikeigeka Gakkai Zasshi** 1989 May; 63(5):475–81

Pediatric update #12. A simplified method for percutaneous epiphysiodesis. Atar D, et al. **Orthop Rev** 1990 Apr; 19(4):358–9, 362–4 (28 ref.)

ULTRASTRUCTURE

Histomorphometric and electron microscopic analyses of tibial epiphyseal plates from Cosmos 1887 rats. Duke PJ, et al. **FASEB J** 1990 Jan;4(1):41–6

EPIPHYSES, SLIPPED

[Epiphysiolysis of the femoral capital] Bajraktarević–Ičičin–Sain T. **Lijec Vjesn** 1989 Aug; 111(8):266–9 (Eng. Abstr.) **(Ser)**

COMPLICATIONS

Results of slipped capital femoral epiphysis in the black population. Kennedy JP, et al. **J Pediatr Orthop** 1990 Mar–Apr;10(2):224–7

[Chondrolysis of the hip joint in patients with juvenile epiphysiolysis of the femur head] Polozov IuG. **Ortop Travmatol Protez** 1989 Oct;(10):30–2 **(Rus)**

DIAGNOSIS

Ultrasonic diagnosis of separation of the proximal humeral epiphysis in the newborn. Broker FH, et al. **J Bone Joint Surg [Am]** 1990 Feb;72(2):187–91

[Imaging of epiphyseolysis of the femur head in the magnetic resonance tomogram] Daschner H, et al. **ROFO** 1990 May; 152(5):583–6 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Seasonal variation of slipped capital femoral epiphysis. Loder RT, et al. **J Bone Joint Surg [Am]** 1990 Mar;72(3):378–81

ETIOLOGY

Slipped upper femoral epiphysis in an amenorrhoeic athlete. Wolman RL, et al. **BMJ** 1989 Sep 16;299(6701):720–1

Slipped capital femoral epiphysis during treatment with recombinant growth hormone for isolated, partial growth hormone deficiency. Prasad V, et al. **J Pediatr** 1990 Mar; 116(3):397–9

Rotational injury of the distal tibial physis. Koval KJ, et al. **Orthop Rev** 1989 Sep;18(9):987–90

Slipped capital femoral epiphysis caused by an implant—a case report. Manukaran MN, et al. **Singapore Med J** 1989 Aug;30(4):406–7

METABOLISM

Iliac crest growth plate analysis in slipped capital femoral epiphysis. Weiss AP, et al. **J Pediatr Orthop** 1990 Sep–Oct; 10(5):629–32

PATHOLOGY

The neck shaft–plate shaft angle in slipped capital femoral epiphysis. Pritchett JW, et al. **Orthop Rev** 1989 Nov; 18(11):1187–92

PREVENTION & CONTROL

Prophylactic pinning in slipped upper femoral epiphysis. Prevention of complications. Emery RJ, et al. **J Bone Joint Surg [Br]** 1990 Mar;72(2):217–9

RADIOGRAPHY

Articulotrochanteric distance in slipped capital femoral epiphysis. Ordeberg G, et al. **Arch Orthop Trauma Surg** 1990;109(4):191–3

Traumatic odontoid epiphysiolysis in an infant fixed in a child's car seat. Keller J, et al. **Injury** 1990 May;21(3):191–2

Radiologic case study. Slipped epiphysis associated with renal osteodystrophy. Drake DG, et al. **Orthopedics** 1989 Nov;12(11):1489, 1492–4

[Delayed diagnosis of epiphysiolysis capitis femoris] Søballe K, et al. **Ugeskr Laeger** 1990 Feb 26;152(9):604–7 (Eng. Abstr.) **(Dan)**

[Epiphyseolysis of the femur head: indications for the treatment of the contralateral hip at cessation of growth] Engelhardt P. **Z Orthop** 1990 May–Jun;128(3):262–5 (Eng.

Abstr.) (Ger)

SURGERY

Transepiphyseal fracture—dislocation of the femoral neck. Savage R. **Injury** 1990 May;21(3):187–8

Current concepts review. Slipped capital femoral epiphysis [letter; comment] **J Bone Joint Surg [Am]** 1990 Apr; 72(4):631–3 Comment on: J Bone Joint Surg [Am] 1988 Oct;70(9):1422–7.

Treatment of slipped capital femoral epiphysis with a cannulated-screw technique. Koval KJ, et al. **J Bone Joint Surg [Am]** 1989 Oct;71(9):1370–7

Remodelling after pinning for slipped capital femoral epiphysis. Jones JR, et al. **J Bone Joint Surg [Br]** 1990 Jul;72(4):568–73

Treatment of slipped capital femoral epiphysis resulting from juvenile renal osteodystrophy. Hartjen CA, et al. **J Pediatr Orthop** 1990 Jul–Aug;10(4):551–4

Slipped capital femoral epiphysis technique of percutaneous in situ fixation. Morrissy RT. **J Pediatr Orthop** 1990 May–Jun;10(3):347–50

Slipped capital femoral epiphysis: rationale for the technique of percutaneous in situ fixation. Nguyen D, et al. **J Pediatr Orthop** 1990 May–Jun;10(3):341–6

Follow-up study of slipped capital femoral epiphysis. Nishiyama K, et al. **J Pediatr Orthop** 1989 Nov–Dec; 9(6):653–9

Open bone graft epiphyseodesis for slipped capital femoral epiphysis. Ward WT, et al. **J Pediatr Orthop** 1990 Jan–Feb; 10(1):14–20

Open bone graft epiphysiodesis for slipped capital femoral epiphysis [letter] Weiner DS. **J Pediatr Orthop** 1990 Sep–Oct;10(5):673–4

Operative versus nonoperative treatment of slipped capital femoral epiphysis. Crawford AH, et al. **Orthopedics** 1990 Jan;13(1):99–111

[Subcapital osteotomy of the femoral neck in the treatment of coxa vara in adolescence—long-term results] Pach M, et al. **Acta Chir Orthop Traumatol Cech** 1990 Feb;57(1):21–6 (Eng. Abstr.) (Cze)

[Previous experience with subcapital femoral neck osteotomy in severe cases of epiphysiolysis capitis femoris] Haase M, et al. **Beitr Orthop Traumatol** 1989 Oct–Nov; 36(10–11):530–4 (11 ref.) (Eng. Abstr.) (Ger)

[Labor trauma–induced epiphysiolysis of the proximal femur. 4 cases] Prévot J, et al. **Z Kinderchir** 1989 Oct;44(5):289–92 (Eng. Abstr.) (Ger)

[Results following sub-capital and Imhäuser–Weber osteotomy in femur head epiphyseolysis] Ballmer PM, et al. **Z Orthop** 1990 Jan–Feb;128(1):63–6 (Eng. Abstr.) (Ger)

[Compensatory processes of the proximal end of the femur bone after treatment of epiphysiolysis by cross osteotomy] Kiepurska A. **Chir Narzadow Ruchu Ortop Pol** 1989; 54(2):93–8 (Eng. Abstr.) (Pol)

[Characteristics of the diagnosis and treatment of juvenile epiphysiolysis of the femur head] Eleuov KA, et al. **Ortop Travmatol Protez** 1989 Oct;(10):27–9 (Rus)

[Treatment of a chronic form of juvenile epiphysiolysis of the femur head] Gafarov KhZ, et al. **Ortop Travmatol Protez** 1990 May;(5):53–4 (Rus)

THERAPY

Treatment of slipped capital femoral epiphysis. Spica-cast immobilization. Betz RR, et al. **J Bone Joint Surg [Am]** 1990 Apr;72(4):587–600

[Apophysis detachment in adolescents] Rubbini L, et al. **Chir Organi Mov** 1989 Jan–Jun;74(1–2):25–9 (8 ref.) (Eng. Abstr.) (Ita)

EPIPHYSES, STIPPLED see **CHONDRODYSPLASIA PUNCTATA**

EPIPHYSIOLYSIS see **EPIPHYSES, SLIPPED**

EPIPHYSIS CEREBRI see **PINEAL BODY**

EPIPODOPHYLLOTOXIN see **PODOPHYLLOTOXIN**

EPIRIZOLE see under **PYRAZOLES**

EPIRUBICIN

ADMINISTRATION & DOSAGE

Advanced breast cancer. A randomised trial of epidoxorubicin at two different dosages and two administration systems. Ebbs SR, et al. **Acta Oncol** 1989; 28(6):887–92

Epirubicin and ifosfamide in patients with refractory breast cancer and other metastatic solid tumours. Hoffmann W, et al. **Cancer Chemother Pharmacol** 1990;26 Suppl:S69–70

Palliative chemo-radiotherapy with ifosfamide and epirubicin as first-line treatment for high-risk metastatic breast cancer. Results of a prospective multicenter trial. Lange OF, et al. **Cancer Chemother Pharmacol** 1990;26 Suppl:S74–7

Weekly Adriamycin vs. 4-epidoxorubicin every second week in advanced breast cancer. A randomized trial. The Norwegian Breast Cancer Group. Gundersen S, et al. **Eur J Cancer** 1990 Jan;26(1):45–8

A phase II study of a 21 day continuous infusion schedule with epirubicin in advanced gastric cancer. De Vries EG, et al. **Eur J Cancer Clin Oncol** 1989 Oct;25(10):1509–10

Intensive chemotherapy with combinations containing anthracyclines for refractory and relapsing multiple myeloma. Finnish Leukaemia Group. Palva IP, et al. **Eur J Haematol** 1990 Feb;44(2):121–4

A multi-centre phase two study of intravesical epirubicin in the treatment of superficial bladder tumour. Cumming JA, et al. **Eur Urol** 1990;17(1):20–2

Epirubicin in extensive small-cell lung cancer: a phase II study in previously untreated patients: a National Cancer Institute of Canada Clinical Trials Group Study [see comments] Blackstein M, et al. **J Clin Oncol** 1990 Mar; 8(3):385–9 Comment in: J Clin Oncol 1990 Mar;8(3):374–7.

High-dose 4'-epiadriamycin for treatment of breast cancer refractory to standard dose anthracycline chemotherapy: achievement of second responses. Bezwoda WR, et al. **Oncology** 1990;47(1):4–8

Phase I/II study of intravesical epirubicin in patients with carcinoma in situ of the bladder. Kurth KH, et al. **Prog Clin Biol Res** 1990;350:41–59

[Epirubicin-based combination chemotherapy in the treatment of non-Hodgkin's lymphoma: with emphasis of elderly patients] Sampi K, et al. **Gan To Kagaku Ryoho** 1990 Sep;17(9):1925–8 (Eng. Abstr.) (Jpn)

[Influences of antitumoral chemotherapy on body composition and nitrogen balance: experimental study] Lima-Gonçalves E, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1989 Jan–Feb;44(1):1–6 (Eng. Abstr.) (Por)

ADVERSE EFFECTS

A pilot study of quinidine and epirubicin in the treatment of advanced breast cancer. Jones RD, et al. **Br J Cancer** 1990 Jul;62(1):133–5

[Pneumo- and cardiotoxic side effects following combination chemotherapy with epirubicin and ifosfamide] Franzen D, et al. **Med Klin** 1990 Mar;85 Suppl 1:133–6, 170 (Ger)

[Magnesium deficiency caused by epirubicin/cisplatin] Lechner W, et al. **Zentralbl Gynakol** 1989;111(21):1438–40 (Eng. Abstr.) (Ger)

[Evaluation of ventricular function in patients treated with mitoxantrone and 4'-epidoxorubicin] Avilés A, et al. **Arch Inst Cardiol Mex** 1989 Nov–Dec;59(6):615–8 (Eng. Abstr.) (Spa)

BLOOD

Anthracycline pharmacokinetics. Limited sampling model for plasma level monitoring with special reference to epirubicin (Farmorubicin). Eksborg S. **Acta Oncol** 1990;29(3):339–42

Rapid quantitative determination of epirubicin and its metabolites in plasma using high performance liquid chromatography and fluorescence detection. Dine T, et al. **Biomed Chromatogr** 1990 Jan;4(1):20–3

PHARMACOKINETICS

Pharmacokinetics and central haemodynamic effects of doxorubicin and 4'epi-doxorubicin in the pig. Andersson M, et al. **Acta Oncol** 1989;28(5):709–14

Pharmacokinetics of anthracyclines. Eksborg S. **Acta Oncol** 1989;28(6):873–6

Comparative metabolism and pharmacokinetics of doxorubicin and 4'-epidoxorubicin in plasma, heart and tumor of tumor-bearing mice. van der Vijgh WJ, et al. **Cancer Chemother Pharmacol** 1990;26(1):9–12

Pharmacokinetics and toxicity of two schedules of high dose epirubicin. Tjuljandin SA, et al. **Cancer Res** 1990 Aug 15; 50(16):5095–101

Pharmacokinetics of 4' epi-adriamycin after morning and afternoon intravenous administration. Eksborg S, et al. **Med Oncol Tumor Pharmacother** 1989;6(3):195–7

[Pharmacokinetics of epirubicin in alcoholic patients] Swirsky H, et al. **Bull Cancer (Paris)** 1989;76(8):897–901 (Fre)

PHARMACOLOGY

Effectiveness of differentiation inducers in combination on human neuroblastoma cells in vitro. Rocchi P, et al. **Anticancer Res** 1989 Nov–Dec;9(6):1605–9

Different effects of chlorpromazine on bleomycin- and epirubicin induced cytotoxicity. Grankvist K, et al. **Biosci Rep** 1990 Apr;10(2):173–7

Effect of preoperative 4'-epidoxorubicin (epi-adriamycin) treatment on the regeneration and function of the liver in partially hepatectomized rats. Hall KS, et al. **Eur Surg Res** 1989;21(3–4):196–204

Pharmacological interaction with quinoid antitumor drugs. Grankvist K, et al. **Free Radic Res Commun** 1990; 8(4–6):383–90

Effect of idarubicin and epirubicin on in vitro polymorphonuclear function: diminished superoxide radical formation compared to their parent compounds daunorubicin and doxorubicin. Cairo MS, et al. **J Leukoc Biol** 1990 Mar;47(3):224–33

[In vitro effect of epirubicin on human esophageal carcinoma cell line (Eca 109)] Xu BH. **Chung Hua Chung Liu Tsa Chih** 1989 Sep;11(5):341–4 (Eng. Abstr.) (Chi)

THERAPEUTIC USE

Current status of epirubicin (Farmorubicin) in the treatment of solid tumours. Mouridsen HT, et al. **Acta Oncol** 1990; 29(3):257–85 (260 ref.)

Phase II study of high-dose epirubicin in untreated patients with small-cell lung cancer. Macchiarini P, et al. **Am J Clin Oncol** 1990 Aug;13(4):302–7

Weekly epirubicin for breast cancer with liver metastases and abnormal liver biochemistry. Twelves CJ, et al. **Br J Cancer** 1989 Dec;60(6):938–41

Changes in T lymphocyte subsets after single dose epirubicin [letter] Lissoni P, et al. **Eur J Cancer** 1990;26(6):767–8

Epirubicin high-dose therapy in advanced breast cancer: preliminary clinical data. Epirubicin as a single agent in breast cancer. Neri B, et al. **Int J Clin Pharmacol Ther Toxicol** 1989 Aug;27(8):388–91

Hypersensitivity reaction to epirubicin. Cassidy J, et al. **Med Oncol Tumor Pharmacother** 1989;6(4):297–8

Phase II study of 4'-epi-doxorubicin in patients with untreated, extensive small cell lung cancer. South-East European Oncology Group (SEEOG). Eckhardt S, et al. **Med Oncol Tumor Pharmacother** 1990;7(1):19–23

[Epirubicin (4'-epi-adriamycin] Tsukagoshi S. **Gan To Kagaku Ryoho** 1990 Jan;17(1):151–9 (32 ref.) (Eng. Abstr.) (Jpn)

[Comparison of the cytotoxic activity of doxorubicin and epirubicin by an in vitro test] Czownicki Z, et al. **Pol Arch Med Wewn** 1989 Aug–Sep;82(2–3):71–6 (Eng. Abstr.) (Pol)

[Possibility of 4'-epiadriamycin treatment of patients with malignant neoplasms and coexistent heart diseases with implanted pacemaker] Pawlicki M, et al. **Wiad Lek** 1990 Apr 1;43(7):281–4 (Eng. Abstr.) (Pol)

[Relation of the antitumor activity of 4'-epidoxorubicin and cytogenetic disorders of tumor cells in experimental studies] Nersesian AK, et al. **Antibiot Khimioter** 1990 Apr; 35(4):39–40 (Eng. Abstr.) (Rus)

[Prevention of recurrence of superficial tumors of the bladder with intravesical epirubicin] Lancina Martín JA, et al. **Actas Urol Esp** 1990 Mar–Apr;14(2):112–4 (Eng. Abstr.) (Spa)

TOXICITY

Comparative hematopoietic toxicity of doxorubicin and 4'-epirubicin. OKunewick JP, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):95–9

[An evaluation of the toxic and antitumor action of farmorubicin administered to H-strain mice with Ehrlich ascitic cancer] Karaivanova MKh, et al. **Eksp Onkol** 1990; 12(2):71–3, 81 (Eng. Abstr.) (Rus)

[Comparative evaluation of the cardiotoxic effects of antineoplastic antibiotics adriamycin and pharmorubicin] Valvere VIu, et al. **Kardiologiia** 1989 Sep;29(9):64–7 (Eng. Abstr.) (Rus)

[Decrease in the cytogenetic effect of adriblastin and pharmorubicin with the experimental use of tularemia vaccine] Nersesian AK, et al. **Tsitol Genet** 1989 Jul–Aug; 23(4):63–5 (Eng. Abstr.) (Rus)

EPISCLERITIS see **SCLERITIS**

EPISIOTOMY

Postpartum symptoms. Episiotomy or tear at vaginal delivery. Thranov I, et al. **Acta Obstet Gynecol Scand** 1990; 69(1):11–5

A comparison of four analgesics in post-episiotomy pain. Bhounsule SA, et al. **Indian J Physiol Pharmacol** 1990 Jan; 34(1):34–8

Is routine episiotomy beneficial in the low birth weight delivery? The TG. **Int J Gynaecol Obstet** 1990 Feb; 31(2):135–40

Maternal birthing positions and perineal injury. Olson R, et al. **J Fam Pract** 1990 May;30(5):553–7

Early repair of episiotomy dehiscence. Hankins GD, et al. **Obstet Gynecol** 1990 Jan;75(1):48–51

A comparison of attitudes and practices of episiotomy among obstetrical practitioners in New Mexico. Graham SB, et al. **Soc Sci Med** 1990;31(2):191–201

[Histologic and light-microscopic cytomorphometric studies of the tissue reparative processes in complete wound dehiscence after obstetrico-gynecologic surgery] Burgudzhieva T, et al. **Akush Ginekol (Sofiia)** 1989; 28(5):62–7 (Eng. Abstr.) (Bul)

[The effect of episiotomy on uterine involution] Kahánek J, et al. **Cesk Gynekol** 1990 Jun;55(5):348–51 (Cze)

[Medical procedures in labor and experience with prophylactic episiotomy in a district hospital 1974–1986] Puchmeltr P, et al. **Cesk Gynekol** 1989 Jun;54(5):379–82 (Cze)

[Bacteriology of episiotomy] Kosian K, et al. **Arch Gynecol Obstet** 1989;245(1–4):313–4 (Ger)

ADVERSE EFFECTS

Perineal endometriosis. Salamalekis E, et al. **Int J Gynaecol Obstet** 1990 Jan;31(1):75–80

Can the suturing method make a difference in postpartum perineal pain? Fleming N. **J Nurse Midwifery** 1990 Jan–Feb;35(1):19–25 (30 ref.)

Postepisiotomy pain: warm versus cold sitz bath [see comments] LaFoy J, et al.

J Obstet Gynecol Neonatal Nurs 1989 Sep–Oct; 18(5):399–403 Comment in: J Obstet Gynecol Neonatal Nurs 1990 Jan–Feb;19(1):13.
Recovery after childbirth: a preliminary prospective study. Abraham S, et al. Med J Aust 1990 Jan 1;152(1):9–12
Midline episiotomies: more harm than good? Shiono P, et al. Obstet Gynecol 1990 May;75(5):765–70

METHODS

Midline episiotomies: more harm than good? [letter] Berlin M. Obstet Gynecol 1990 Sep;76(3 Pt 1):474–5
[Late complications of episiotomy] Rageth JC, et al. Z Geburtshilfe Perinatol 1989 Sep–Oct;193(5):233–7 (Eng. Abstr.) (Ger)

NURSING

Psychometric properties of the REEDA. Hill PD. J Nurse Midwifery 1990 May–Jun;35(3):162–5
Kegel exercises after warm sitz bath recommended [letter; comment] Whalley J. J Obstet Gynecol Neonatal Nurs 1990 Jan–Feb;19(1):13 Comment on: J Obstet Gynecol Neonatal Nurs 1989 Sep–Oct;18(5):399–403.

EPISOMES see PLASMIDS

EPISPADIAS

COMPLICATIONS

[Complete duplication of the urethra] Prado Fernández MC, et al. Arch Esp Urol 1990 Apr;43(3):294–5 (12 ref.) (Eng. Abstr.) (Spa)

PATHOLOGY

Epispadias with complete non-retractile prepuce. Krishna A, et al. Indian Pediatr 1989 Oct;26(10):1055–6
Duplicate bladder exstrophy: a new variant of clinical and embryological significance. Sheldon CA, et al. J Urol 1990 Aug;144(2 Pt 1):334–6

SURGERY

Reconstruction of bladder neck–posterior urethral region in patients with complete epispadias. Ibrahim ME. Int Urol Nephrol 1990;22(1):61–5
Augmentation cystoplasty in patients with exstrophy–epispadias. Kramer SA. J Pediatr Surg 1989 Dec;24(12):1293–6
[The use of a triangular hypogastric mons pubis flap repair of congenital epispadia—report of a case] Wang QR. Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1986 Mar;2(1):69 (Chi)
[Reconstruction of the bladder neck in exstrophy of the bladder or epispadias using Young–Dee's method] Mortensen T, et al. Ugeskr Laeger 1990 Jan 15;152(3):165–7 (Eng. Abstr.) (Dan)

EPISTASIS, GENETIC

Ethnic variation in genetic disease: possible roles of hitchhiking and epistasis. Wagener DK, et al. Am J Hum Genet 1975 May;27(3):348–64
Hypothesis: homozygosity in Tourette syndrome. Comings DE, et al. Am J Med Genet 1989 Nov;34(3):413–21
The cis–trans effects of crossing-over on the penetrance and expressivity of dominantly inherited disorders. Côté GB. Ann Genet 1989;32(3):132–5
Interactions of the RAD7 and RAD23 excision repair genes of Saccharomyces cerevisiae with DNA repair genes in different epistasis groups. Schiestl RH, et al. Curr Genet 1989 Oct;16(4):219–23
Genotypic variation for a quantitative character maintained under stabilizing selection without mutations: epistasis. Gimelfarb A. Genetics 1989 Sep;123(1):217–27
[Epistatic interactions of genes in the descendants of distant marriages among the Russian population] Dubrova IuE, et al. Dokl Akad Nauk SSSR 1989 Nov–Dec;309(1):211–4 (Rus)
[Re-evaluation of genetic formulae and epistasis] Stroganov AN, et al. Genetika 1989 Aug;25(8):1514–8 (Eng. Abstr.) (Rus)

EPISTATIC DEVIATION see EPISTASIS, GENETIC

EPISTAXIS

Epistaxis in children: causes, diagnosis, and treatment. Guarisco JL, et al. Ear Nose Throat J 1989 Jul;68(7):522, 528–30, 532 passim (29 ref.)

CHEMICALLY INDUCED

Drug-induced epistaxis? Watson MG, et al. J R Soc Med 1990 Mar;83(3):162–4

DIAGNOSIS

Epistaxis mimicking upper gastrointestinal bleeding. Wolf M, et al. J Fam Pract 1990 Jan;30(1):95–7

DRUG THERAPY

Topical terlipressin (Glypressin) gel reduces nasal mucosal blood flow but leaves ongoing nose-bleeding unaffected. Bende M, et al. Acta Otolaryngol (Stockh) 1990 Jul–Aug; 110(1–2):124–7
Silver nitrate cautery and epistaxis [letter] Barr GD. Arch Emerg Med 1989 Sep;6(3):233
[Submucosal Tissucol injections in recurrent epistaxis] Barsan H. Schweiz Rundsch Med Prax 1990 Aug 14;79(33):944–7 (Eng. Abstr.) (Fre)
[Therapeutic use of a peptide fraction derived from bovine factor VIII in epistaxis in children] Tarantino V, et al. Minerva Pediatr 1989 Nov;41(11):549–51 (Eng. Abstr.) (Ita)

EPIDEMIOLOGY

Epistaxis: a study of the relationship with weather. Nunez DA, et al. Clin Otolaryngol 1990 Feb;15(1):49–51

ETIOLOGY

Blood loss and haematological consequences related to nasal surgery. Hinton AE, et al. Clin Otolaryngol 1990 Jun; 15(3):253–6
How safe is submucosal diathermy? Premachandra DJ, et al. J Laryngol Otol 1990 May;104(5):408–9
Epistaxis due to glutaraldehyde exposure. Wiggins P, et al. J Occup Med 1989 Oct;31(10):854–6
Increased incidence of epistaxis in adolescents with familial hypercholesterolemia treated with fish oil. Clarke JT, et al. J Pediatr 1990 Jan;116(1):139–41
Epistaxis due to traumatic intracavernous aneurysm: case report. Lee JP, et al. J Trauma 1990 May;30(5):619–22
Severe epistaxis from a false aneurysm of the external carotid artery. Mauldin FW, et al. Otolaryngol Head Neck Surg 1989 Nov;101(5):588–90
Epistaxis after prolonged water immersion in a hot Jacuzzi [letter] Backon J. Postgrad Med J 1989 Dec;65(770):958
Modulation of mild bleeding disorder during remissions and exacerbations of Graves' disease. Zeigler ZR, et al. South Med J 1989 Nov;82(11):1416–8
[Nosebleed, vision disorders (clinical conference)] Ciernik IF, et al. Schweiz Rundsch Med Prax 1990 Jan 9;79(1–2):20–2 (Eng. Abstr.) (Ger)
[Arteriovenous malformation complicated by serious recurrent epistaxis] Cotulbea S, et al. Rev Chir [Otorinolaringol] 1989 Apr–Jun;34(2):153–6 (Eng. Abstr.) (Rum)
[Aneurysm of the internal carotid artery with fatal epistaxis] Szabo V, et al. Rev Chir [Otorinolaringol] 1989 Apr–Jun; 34(2):157–60 (Eng. Abstr.) (Rum)
[Primary malignant melanoma of the nasal cavity] Mayol Belda MJ, et al. Acta Otorrinolaringol Esp 1989 Jan–Feb; 40(1):57–9 (Eng. Abstr.) (Spa)

PATHOLOGY

Epistaxis: anatomical and clinical correlates. Padgham N. J Laryngol Otol 1990 Apr;104(4):308–11

PREVENTION & CONTROL

Alternatives to packing in septorhinoplasty. Reiter D, et al. Arch Otolaryngol Head Neck Surg 1989 Oct;115(10):1203–5
A comparison of cocaine, lidocaine with epinephrine, and oxymetazoline for prevention of epistaxis on nasotracheal intubation. Katz RI, et al. J Clin Anesth 1990 Jan–Feb; 2(1):16–20

SURGERY

Role of angiography in the management of refractory epistaxis. Welsh LW, et al. Ann Otol Rhinol Laryngol 1990 Jan;99(1):69–73
Superior oblique muscle dysfunction following anterior ethmoidal artery ligation for epistaxis. Couch JM, et al. Arch Ophthalmol 1990 Aug;108(8):1110–3
Microvascular free flap in hereditary hemorrhagic telangiectasia. Bridger GP, et al. Arch Otolaryngol Head Neck Surg 1990 Jan;116(1):85–7
Nasal endoscopic control of epistaxis—a preliminary report. Marcus MJ. Otolaryngol Head Neck Surg 1990 Mar; 102(3):273–5
[Diagnosis and treatment of recurrent nosebleed based on microrhinoscopic data] Mitin IuV, et al. Vestn Otorinolaringol 1990 May–Jun;(3):50–3 (Rus)

THERAPY

Uncontrollable epistaxis. Angiographic localization and embolization. Strutz J, et al. Arch Otolaryngol Head Neck Surg 1990 Jun;116(6):697–9
Treatment of epistaxis. Marty DW. Aust Fam Physician 1990 May;19(5):707–11
Transarterial embolization to control posterior epistaxis. Hicks JN, et al. Laryngoscope 1989 Oct;99(10 Pt 1):1027–9
Management of nosebleeds [letter; comment] Albert RW. Postgrad Med 1990 May 1;87(6):31 Comment on: Postgrad Med 1989 Sep 15;86(4):44–6, 51, 55–6.
[Treatment of posterior epistaxis using a Foley catheter. Study of 235 cases] Arruti González, et al. An Otorrinolaringol Ibero Am 1989;16(5):527–41 (Eng. Abstr.) (Spa)
[Pneumatic nasal tamponade in the treatment of epistaxis] Folch D, et al. An Otorrinolaringol Ibero Am 1989; 16(6):667–74 (Eng. Abstr.) (Spa)

VETERINARY

Functional and morphological studies on blood platelets in a thrombasthenic horse. Sutherland RJ, et al. Aust Vet J 1989 Nov;66(11):366–70
[Clinical case. Epistaxis in a dog] Kraft W. Tierarztl Prax 1990 Feb;18(1):6, 91 (Ger)

EPISTROPHEUS see AXIS

EPITESTOSTERONE see under TESTOSTERONE

EPITHELIAL ATTACHMENT see under PERIODONTIUM

EPITHELIOID CELLS

see related GIANT CELLS

IMMUNOLOGY

Thyroid infiltrating dendritic cells, epitheloid cells and giant cells in iodine deficiency. Dimal P, et al. Acta Med Austriaca 1990;17 Suppl 1:43

PATHOLOGY

Diagnostic significance of epithelioid granulomas in Crohn's disease in children. Multicenter Paediatric Crohn's Disease Study Group. Keller KM, et al. J Pediatr Gastroenterol Nutr 1990 Jan;10(1):27–32
Chronic inflammatory cells with epithelial cell characteristics in teleost fishes. Noga EJ, et al. Vet Pathol 1989 Sep; 26(5):429–37

EPITHELIOMA see CARCINOMA

EPITHELIOMA, BASAL CELL see CARCINOMA, BASAL CELL

EPITHELIOMA, BROWN-PEARCE see CARCINOMA, BROWN-PEARCE

EPITHELIOMA CONTAGIOSUM see FOWL POX

EPITHELIUM

ANALYSIS

A monoclonal antibody to a megakaryoblast-like cell line detects a protein found in blood cells and in the epithelial cell lining of various rat tissues. Gulowsen AC, et al. Eur J Cell Biol 1990 Jun;52(1):142–6
Monoclonal antibodies specific for keratan sulfate detect epithelial-associated carbohydrates. Sorrell JM, et al. Histochemistry 1990;94(3):269–75
Preferred apical distribution of glycosyl-phosphatidylinositol (GPI) anchored proteins: a highly conserved feature of the polarized epithelial cell phenotype. Lisanti MP, et al. J Membr Biol 1990 Feb;113(2):155–67

CYTOLOGY

Characterization of subclones of Madin–Darby canine kidney renal epithelial cell line. Nakazato Y, et al. Biochim Biophys Acta 1989 Oct 30;1014(1):57–65
Effect of surface treatments on attachment and growth of epithelial cells. Jansen JA, et al. Biomaterials 1989 Nov; 10(9):604–8
Established mouse liver cell lines as a model system for studying epithelio-mesenchymal interactions in morphogenesis. Kadoya Y. Cell Differ Dev 1990 May; 30(2):117–28
Theory for epithelial-mesenchymal transformation based on the "fixed cortex" cell motility model. Hay ED. Cell Motil Cytoskeleton 1989;14(4):455–7 (13 ref.)
Differentiation of an epithelium: factors affecting the polarized distribution of Na+,K(+)-ATPase in mouse trophectoderm. Watson AJ, et al. Dev Biol 1990 Sep; 141(1):104–14
Modified procedure for isolation of epithelial cells of rat epididymal caput. Dominiak B, et al. Endocrinol Exp 1989 Sep;23(3):235–47
Suramin-treated HT29-D4 cells grown in the presence of glucose in permeable culture chambers form electrically active epithelial monolayers. A comparative study with HT29-D4 cells grown in the absence of glucose. Fantini J, et al. Eur J Cell Biol 1990 Feb;51(1):110–9
Volume regulation of cultured, transformed, non-pigmented epithelial cells from human ciliary body. Yantorno RE, et al. Exp Eye Res 1989 Sep;49(3):423–37
Histochemical studies of intestinal epithelial goblet cell glycoproteins during the development of the human foetus. Reid PE, et al. Histochem J 1990 Feb;22(2):81–6
Terminally differentiating epithelial tissues in primary explant culture: a model of growth and development. Merchant DJ. In Vitro Cell Dev Biol 1990 Jun;26(6):543–53 (49 ref.)
Membrane domains of intestinal epithelial cells: distribution of Na+,K+-ATPase and the membrane skeleton in adult rat intestine during fetal development and after epithelial isolation. Amerongen HM, et al. J Cell Biol 1989 Nov; 109(5):2129–38
Steps in the morphogenesis of a polarized epithelium. I. Uncoupling the roles of cell-cell and cell-substratum

contact in establishing plasma membrane polarity in multicellular epithelial (MDCK) cysts. Wang AZ, et al. **J Cell Sci** 1990 Jan;95 (Pt 1):137–51

Polarity of endogenous and exogenous glycosyl–phosphatidylinositol–anchored membrane proteins in Modin–Darby canine kidney cells. Wilson JM, et al. **J Cell Sci** 1990 May;96 (Pt 1):143–9

Epithelial stem cells in vivo. Potten CS, et al. **J Cell Sci Suppl** 1988;10:45–62 (81 ref.)

Albuminoid molecules: a novel, variability–generating cell–surface receptor system? Gersten DM, et al. **Med Hypotheses** 1989 Oct;30(2):135–40

Regulation of type I (epidermal) transglutaminase mRNA levels during squamous differentiation: down regulation by retinoids. Floyd EE, et al. **Mol Cell Biol** 1989 Nov; 9(11):4846–51

Epstein–Barr virus latent membrane protein inhibits human epithelial cell differentiation. Dawson CW, et al. **Nature** 1990 Apr 19;344(6268):777–80

[The functional significance and stoichiometry of cellular mosaics of squamous epithelial cells] Savostianov GA. **Dokl Akad Nauk SSSR** 1989;307(6):1483–6 **(Rus)**

[Quantitative characterization of nuclear polymorphism of the epithelial cells in fibroadenomatosis and cancer of the breast] Ganina KP, et al. **Vopr Onkol** 1989;35(12):1444–9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Antigenotoxic activity of carotenoids in carcinogen–exposed populations. Rosin MP. **Basic Life Sci** 1990;52:45–59 (49 ref.)

Effect of tumor necrosis factor on epithelial tight junctions and transepithelial permeability. Mullin JM, et al. **Cancer Res** 1990 Apr 1;50(7):2172–6

Beta–adrenergic stimulation of cyclic AMP accumulation in rat prostatic epithelial cells during sexual maturation. Carmena MJ, et al. **Mech Ageing Dev** 1990 Mar 1; 52(1):79–86

Purified scatter factor stimulates epithelial and vascular endothelial cell migration. Rosen EM, et al. **Proc Soc Exp Biol Med** 1990 Oct;195(1):34–43

[Reaction of cells cultured in vitro on 2 self–polymerizing adhesives] Novák L, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(4):353–63 (Eng. Abstr.) **(Cze)**

[Cytotolerance of bioceramics in cell culture studies] Novák L, et al. **Sb Ved Pr Lek Fak Karlovy Univerzity Hradci Kralove Suppl** 1989;32(4):365–9 (Eng. Abstr.) **(Cze)**

EMBRYOLOGY

Cell lineage analyses of epithelia and blood vessels in chimeric mouse embryos by use of an embryonic stem cell line expressing the beta–galactosidase gene. Kadokawa Y, et al. **Cell Differ Dev** 1990 Mar;29(3):187–94

GROWTH & DEVELOPMENT

Type II pneumocytes in mixed cell culture of human lung: a light and electron microscopic study. Bingle L, et al. **Environ Health Perspect** 1990 Apr;85:71–80

Pathways of differentiation of airway epithelial cells. Nettesheim P, et al. **Environ Health Perspect** 1990 Apr; 85:317–29

Mitogenic regulation of normal and malignant breast epithelium. Lippman ME, et al. **Yale J Biol Med** 1989 Sep–Oct;62(5):459–80 (232 ref.)

IMMUNOLOGY

Autoantibodies to epithelial cells in patients on long–term therapy with leucocyte–derived interferon–alpha (IFN–alpha). Karlsson–Parra A, et al. **Clin Exp Immunol** 1990 Jul;81(1):72–5

Glucocorticoid hormones reduce the expression of major histocompatibility class I antigens on human epithelial cells. Von Knebel Doeberitz M, et al. **Eur J Immunol** 1990 Jan; 20(1):35–40

Methods to estimate the polarized distribution of surface antigens in cultured epithelial cells. Rodriguez–Boulan E, et al. **Methods Cell Biol** 1989;32:37–56 (52 ref.)

METABOLISM

Defective regulation of epithelial Cl– permeability and protein secretion in cystic fibrosis: the putative basic defect. Kirk KL. **Am J Kidney Dis** 1989 Oct;14(4):333–8 (37 ref.)

Repolarization of Na+–K+ pumps during establishment of epithelial monolayers. Contreras RG, et al. **Am J Physiol** 1989 Nov;257(5 Pt 1):C896–905

Transcytosis of drug carriers carrying peptides across epithelial barriers. Patel HM. **Biochem Soc Trans** 1989 Oct; 17(5):940–2 (13 ref.)

Autoradiographic demonstration of specific binding sites for E. coli enterotoxin in various epithelia of the North American opossum. Krause WJ, et al. **Cell Tissue Res** 1990 May;260(2):387–94

Transfer of carbonic anhydrase–positive particles from the follicle–associated epithelium to lymphocytes of Peyer's patches in foetal sheep and lambs. Landsverk T, et al. **Cell Tissue Res** 1990 Aug;261(2):239–47

Topogenesis of plasma membrane domains in polarized epithelial cells. Nelson WJ. **Curr Opin Cell Biol** 1989 Aug; 1(4):660–8 (26 ref.)

Glucose metabolism and protein synthesis in stratified squamous epithelia from young and old mice. Hill MW, et al. **Exp Gerontol** 1989;24(4):331–40

Proteoglycan synthesis by normal and neoplastic human transitional epithelial cells. Knudson W, et al. **J Cell Biochem** 1990 Jul;43(3):265–79

A single human keratin 18 gene is expressed in diverse epithelial cells of transgenic mice. Abe M, et al. **J Cell Biol** 1990 Sep;111(3):1197–206

Synergistic effect of IL–4 and IFN–gamma on the expression of polymeric Ig receptor (secretory component) and IgA binding by human epithelial cells. Phillips JO, et al. **J Immunol** 1990 Sep 15;145(6):1740–4

Electrophysiological investigation of the amino acid carrier selectivity in epithelial cells from Xenopus embryo. Bergman J, et al. **J Membr Biol** 1989 Nov;111(3):241–51

Epithelial transport of drugs in cell culture. I: A model for studying the passive diffusion of drugs over intestinal absorptive (Caco–2) cells. Artursson P. **J Pharm Sci** 1990 Jun;79(6):476–82

Cultures as epithelial models: porous–bottom culture dishes for studying transport and differentiation. Handler JS, et al. **Methods Enzymol** 1989;171:736–44

The use of cultured epithelial and endothelial cells for drug transport and metabolism studies. Audus KL, et al. **Pharm Res** 1990 May;7(5):435–51 (227 ref.)

Keratins as markers that distinguish normal and tumor–derived mammary epithelial cells. Trask DK, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(6):2319–23

Mechanisms of water transport by epithelial cells. Tripathi S, et al. **Q J Exp Physiol** 1989 Jul;74(4):385–417 (123 ref.)

MICROBIOLOGY

Host epithelial glycoconjugates and pathogenic bacteria. Leffler H, et al. **Am J Respir Cell Mol Biol** 1990 May; 2(5):409–11 (22 ref.)

A comparison of HEp–2 cell invasion by enteropathogenic and enteroinvasive Escherichia coli. Donnenberg MS, et al. **FEMS Microbiol Lett** 1990 May;57(1–2):83–6

Anaerobiosis, type 1 fimbriae, and growth phase are factors that affect invasion of HEp–2 cells by Salmonella typhimurium. Ernst RK, et al. **Infect Immun** 1990 Jun; 58(6):2014–6

The spermicidal compound nonoxynol–9 increases adhesion of Candida species to human epithelial cells in vitro [published erratum appears in Infect Immun 1990 Aug;58(8):2725] McGroarty JA, et al. **Infect Immun** 1990 Jun;58(6):2005–7

Stable expression of lipooligosaccharide antigens during attachment, internalization, and intracellular processing of Neisseria gonorrhoeae in infected epithelial cells. Weel JF, et al. **Infect Immun** 1989 Nov;57(11):3395–402

PATHOLOGY

Follow–up study of cervical epithelial atypia of pregnancy. Zilahi Z, et al. **Am J Obstet Gynecol** 1967 Aug 15; 98(8):1154

PHYSIOLOGY

Diversity of kinin effects on transporting epithelia. Cuthbert AW, et al. **Adv Exp Med Biol** 1989;247A:105–11 (27 ref.)

A nonenzymatic preparation of epithelial basolateral membrane for patch clamp. Wehner F, et al. **Am J Physiol** 1990 Jun;258(6 Pt 1):C1159–64

Use of cultured airway epithelial cells in studies of ion transport. Widdicombe JH. **Am J Physiol** 1990 Feb;258(2 Pt 1):L13–8 (60 ref.)

Cell polarity and development of the first epithelium. Wiley LM, et al. **Bioessays** 1990 Feb;12(2):67–73 (41 ref.)

Water permeability in different epithelial barriers. Capurro C, et al. **Biol Cell** 1989;66(1–2):145–8

Similar epithelial–stromal interactions in the regulation of hyaluronate production during limb morphogenesis and tumor invasion. Knudson CB, et al. **Cancer Lett** 1990 Jul 16;52(2):113–22

Microtubule– and motor–dependent fusion in vitro between apical and basolateral endocytic vesicles from MDCK cells. Bomsel M, et al. **Cell** 1990 Aug 24;62(4):719–31

Polarized sorting in epithelia. Simons K, et al. **Cell** 1990 Jul 27;62(2):207–10 (23 ref.)

Regulation of epithelial sodium channel densities by vasopressin signalling. Els WJ, et al. **Cell Signal** 1989; 1(6):533–9 (59 ref.)

The cellular basis of epithelial morphogenesis. Kolega J. **Dev Biol (N Y 1985)** 1986;2:103–43 (184 ref.)

Removal of guinea pig bronchial and tracheal epithelium potentiates the contractions to leukotrienes and histamine. Prié S, et al. **Eicosanoids** 1990;3(1):29–37

Chondrogenesis of mandibular mesenchyme from the embryonic chick is inhibited by mandibular epithelium and by epidermal growth factor. Coffin–Collins PA, et al. **Int J Dev Biol** 1989 Jun;33(2):297–311

Steps in the morphogenesis of a polarized epithelium. II. Disassembly and assembly of plasma membrane domains during reversal of epithelial cell polarity in multicellular epithelial (MDCK) cysts. Wang AZ, et al. **J Cell Sci** 1990 Jan;95 (Pt 1):153–65

Alterations in the establishment and maintenance of epithelial cell polarity as a basis for disease processes. Molitoris BA, et al. **J Clin Invest** 1990 Jan;85(1):3–9 (71 ref.)

Reduced epithelial surface activity is related to a higher incidence of facial clefting in A/WySn mice. Forbes DP, et al. **J Craniofac Genet Dev Biol** 1989;9(3):271–83

Interactions between epithelial cells and T lymphocytes: role of adhesion molecules. Singer KH. **J Leukoc Biol** 1990 Oct; 48(4):367–74 (86 ref.)

Ionic permeation mechanisms in epithelia: biionic potentials, dilution potentials, conductances, and streaming potentials. Barry PH. **Methods Enzymol** 1989;171:678–715

Impedance analysis in tight epithelia. Clausen C. **Methods Enzymol** 1989;171:628–42

Scanning electrode localization of transport pathways in epithelial tissues. Foskett JK, et al. **Methods Enzymol** 1989; 171:792–813

Electrical impedance analysis of leaky epithelia: theory, techniques, and leak artifact problems. Gordon LG, et al. **Methods Enzymol** 1989;171:642–63

Use of ionophores in epithelia: characterizing membrane properties. Lewis SA, et al. **Methods Enzymol** 1989; 171:715–36

Volume regulation in epithelia: experimental approaches. Macknight AD, et al. **Methods Enzymol** 1989;171:744–92

Patch–clamp experiments in epithelia: activation by hormones or neurotransmitters. Petersen OH. **Methods Enzymol** 1989;171:663–78

Direct current electrical measurement in epithelia: steady–state and transient analysis. Rehm WS, et al. **Methods Enzymol** 1989;171:607–28

SECRETION

Effect of K+ channels in the apical plasma membrane on epithelial secretion based on secondary active Cl– transport. Cook DI, et al. **J Membr Biol** 1989 Sep; 110(2):139–46

TRANSPLANTATION

Indications for keratoepithelioplasty. Turgeon PW, et al. **Arch Ophthalmol** 1990 Feb;108(2):233–6

Cultured epithelial autografts for giant congenital nevi [letter; comment] Moss AL. **Plast Reconstr Surg** 1990 Apr; 85(4):646–7 Comment on: Plast Reconstr Surg 1989 Jul;84(1):1–9.

EPITOPES see **ANTIGENIC DETERMINANTS**

EPN see under **INSECTICIDES, ORGANOTHIOPHOSPHATE**

EPONYMS

Bannayan–Riley–Ruvalcaba syndrome: renaming three formerly recognized syndromes as one etiologic entity [letter] Cohen MM Jr. **Am J Med Genet** 1990 Feb; 35(2):291–2

A surfeit of eponyms [letter] Ross SA. **J Am Acad Dermatol** 1990 Jul;23(1):156

Scintigraphic cholecystokinin–induced bile reflux named as Krishnamurthy–Bobba sign [letter; comment] Brar HS. **J Nucl Med** 1990 Feb;31(2):248–9 Comment on: J Nucl Med 1989 Jul;30(7):1192–7.

Gage's sign—revisited! [letter] **J Pediatr Orthop** 1989 Sep–Oct;9(5):630

Kentucky, not Kennedy. ROS, POS, and ROPO rear their ugly heads. Acronymic archivist seduced by eponymy [letter] Trimble GX. **JAMA** 1990 Feb 9;263(6):814

Eponymous confusion over Bruno Fleischer [letter] Dening TR, et al. **Lancet** 1990 Feb 3;335(8684):291

Falstaff obesity. Rodim A, et al. **Ohio Med** 1990 Mar; 86(3):222

Faust complex. Rodin A, et al. **Ohio Med** 1990 Apr;86(4):320, 322

Gargoylism. Rodin A, et al. **Ohio Med** 1990 May;86(5):397

Electra complex. Rodin A, et al. **Ohio Med** 1990 Feb; 86(2):147

Caput medusae. Rodin AE. **Ohio Med** 1989 Oct;85(10):818

Medical eponyms. Cyclopia. Rodin AE, et al. **Ohio Med** 1989 Dec;85(12):981

Gerota versus Zuckerkandl: the renal fascia revisited. Chesbrough RM, et al. **Radiology** 1989 Dec;173(3):845–6

Nondisease. Ozonoff MB. **Radiology** 1990 Mar;174(3 Pt 1):840

The Asclepiads of Dublin: a moment in Ireland's medical history. Bloch H. **South Med J** 1990 Jun;83(6):664–8

[Küster or Küstner? (letter)] Uzel R. **Cesk Gynekol** 1990 Mar; 55(2):150–1 **(Cze)**

[Aran–Duchenne? Duchenne–Aran? The quarrel around progressive muscular atrophy] Bonduelle M. **Rev Neurol (Paris)** 1990;146(2):97–106 (Eng. Abstr.) **(Fre)**

EPOPROSTENOL see **PROSTAGLANDINS X**

EPOXIDE HYDRASES see **EPOXIDE HYDROLASES**

EPOXIDE HYDRATASES see **EPOXIDE HYDROLASES**

EPOXIDE HYDROLASES

Membrane topology of epoxide hydrolase. Craft JA, et al. **Biochim Biophys Acta** 1990 Aug 28;1046(1):32–9

Human and murine cytosolic epoxide hydrolase: physical and structural properties. Dietze EC, et al. **Int J Biochem** 1990; 22(5):461–70

ANALYSIS

Similarities between catalase and cytosolic epoxide hydrolase. Guenthner TM, et al. **Drug Metab Rev** 1989;20(2–4):733–48

Possible prognostic value of pulmonary AH-locus-linked enzymes in patients with tobacco-related lung cancer. Bartsch H, et al. **Int J Cancer** 1990 Aug 15;46(2):185–8

Immunochemical characterization of human lung epoxide hydrolases. Guenthner TM, et al. **J Biochem Toxicol** 1986 Dec;1(4):67–81

Immunological quantitation and immunohistochemical localization of leukotriene A4 hydrolase in guinea pig tissues. Ohishi N, et al. **J Biol Chem** 1990 May 5; 265(13):7520–5

Cytochrome P 450 isoenzymes, epoxide hydrolase and glutathione transferases in rat and human hepatic and extrahepatic tissues. de Waziers I, et al. **J Pharmacol Exp Ther** 1990 Apr;253(1):387–94

Prenatal prediction of risk of the fetal hydantoin syndrome. Buehler BA, et al. **N Engl J Med** 1990 May 31; 322(22):1567–72

[Determination of epoxide hydrolase activity by high performance liquid chromatography] Kravchenko LV, et al. **Biull Eksp Biol Med** 1989 Aug;108(8):179–81 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Inhibition of epoxide hydrolase by valproic acid in epileptic patients receiving carbamazepine. Robbins DK, et al. **Br J Clin Pharmacol** 1990 Jun;29(6):759–62

Unsubstituted amides: new class of potent inhibitors of human microsomal epoxide hydrolase. Kerr BM, et al. **Drug Metab Dispos** 1990 Jul–Aug;18(4):540–2

Selective inhibition of cytosolic epoxide hydrolase activity in vitro by compounds that inhibit catalase. Guenthner TM, et al. **J Biochem Toxicol** 1989 Winter;4(4):241–9

Inhibition of catalase and epoxide hydrolase by the renal cystogen 2-amino-4,5-diphenylthiazole and its metabolites. Hjelle JT, et al. **Toxicology** 1990 Mar 16;60(3):211–22

BIOSYNTHESIS

Proliferation of peroxisomes and induction of cytosolic and microsomal epoxide hydrolases in different strains of mice and rats after dietary treatment with clofibrate. Lundgren B, et al. **Xenobiotica** 1989 Aug;19(8):867–81

BLOOD

Mechanism-based inactivation of leukotriene A4 hydrolase during leukotriene B4 formation by human erythrocytes. Orning L, et al. **J Biol Chem** 1990 Sep 5;265(25):14911–6

GENETICS

Glucocorticoid repression and basal regulation of the epoxide hydrolase promoter. Bell PA, et al. **Arch Biochem Biophys** 1990 Jun;279(2):363–9

Molecular evolution and zinc ion binding motif of leukotriene A4 hydrolase. Toh H, et al. **Biochem Biophys Res Commun** 1990 Aug 31;171(1):216–21

Regulation of microsomal, xenobiotic epoxide hydrolase messenger RNA in persistent hepatocyte nodules and hepatomas induced by chemical carcinogens. Ding VD, et al. **Cancer Res** 1990 Jan 15;50(2):256–60

Expression of rat microsomal epoxide hydrolase gene during liver chemical carcinogenesis. Kondo S, et al. **Cancer Res** 1990 Oct 1;50(19):6222–8

Human fibroblasts show expression of the leukotriene-A4-hydrolase gene, which is increased after simian-virus-40 transformation. Medina JF, et al. **Eur J Biochem** 1990 Jul 20;191(1):27–31

Genetic and environmental factors that regulate cytosolic epoxide hydrolase activity in normal human lymphocytes. Norris KK, et al. **J Clin Invest** 1989 Dec;84(6):1749–56

ISOLATION & PURIFICATION

Production of monospecific antiserum to a cytosolic epoxide hydrolase from human liver. Qato MK, et al. **Biochem Pharmacol** 1990 Jan 15;39(2):293–300

METABOLISM

Properties of leukotriene A4-hydrolase. Rådmark O, et al. **Adv Prostaglandin Thromboxane Leukotriene Res** 1990; 20:35–45 (38 ref.)

Leukotriene A4 hydrolase activity of human airway epithelial cells. Bigby TD, et al. **Biochem Biophys Res Commun** 1989 Oct 16;164(1):1–7

Effect of diabetes and starvation on the activity of rat liver epoxide hydrolases, glutathione S-transferases and peroxisomal beta-oxidation. Thomas H, et al. **Biochem Pharmacol** 1989 Dec 1;38(23):4291–7

Leukotriene A4 hydrolase: analysis of some human tissues by radioimmunoassay. Fu JY, et al. **Biochim Biophys Acta** 1989 Nov 6;1006(1):121–6

Epoxide hydratase: sex specific expression and rate-limiting role in DMBA metabolism. Christou M, et al. **Carcinogenesis** 1989 Oct;10(10):1883–90

Cytochrome P-450 monooxygenase, epoxide hydrolase and flavin monooxygenase activities in Clara cells and alveolar type II cells isolated from rabbit. Devereux TR, et al. **Cell Biol Toxicol** 1985 Jan;1(2):57–65

Toxicological implications of enzymatic control of reactive metabolites. Oesch F, et al. **Hum Exp Toxicol** 1990 May; 9(3):171–7

Study of activating and conjugating enzymes of drug metabolism in zinc deficiency. Jagadeesan V. **Indian J Exp Biol** 1989 Sep;27(9):799–801

Enzymes involved in the biosynthesis of leukotriene B4. Samuelsson B, et al. **J Biol Chem** 1989 Nov 25; 264(33):19469–72 (67 ref.)

Control of ultimate mutagenic species by diverse enzymes. Oesch F, et al. **Prog Clin Biol Res** 1990;340B:49–65

Kinetic resolution of racemic leukotriene A4 by mammalian cytosolic epoxide hydrolases. Maury G, et al. **Prostaglandins Leukot Essent Fatty Acids** 1989 Oct; 38(1):67–73

[Activity of enzymes of xenobiotic metabolism in the liver of rats after administration of polychlorinated biphenyls] Tutel'ian VA, et al. **Gig Sanit** 1990 May;(5):20–3 **(Rus)**

EPOXY COMPOUNDS see under ETHERS, CYCLIC

EPOXY RESINS

Ultrastructural immunogold labeling of glial filaments in osmicated and unosmicated epoxy-embedded tissue. Bettica A, et al. **J Histochem Cytochem** 1990 Jan; 38(1):103–9

Prosthetic use of carbon fiber-reinforced epoxy resin for esthetic crowns and fixed partial dentures. Malquarti G, et al. **J Prosthet Dent** 1990 Mar;63(3):251–7

Silver impregnation of membranes on undeplasticized semi-thin sections for morphometry. Herlin P, et al. **Pathol Res Pract** 1989 Nov;185(5):558–60

Elimination or reduction of wrinkles in semithin epoxy sections by vacuum drying. Crowley HH, et al. **Stain Technol** 1989 Sep;64(5):221–3

A method for flat embedding thick cryostat tissue sections in plastic resin. Parr MB, et al. **Stain Technol** 1989 Sep; 64(5):261–3

A simple method for the cultivation of cell monolayers for electron microscopy studies. Pintó RM, et al. **Stain Technol** 1990;65(1):51–3

[Hemolytic anemia following aortic valve replacement with an Emix prosthesis] Grishchenko VV, et al. **Grudn Khir** 1989 Sep–Oct;(5):92–3 **(Rus)**

ADVERSE EFFECTS

The use of laboratory methods in contact dermatitis induced by composite materials. Ayala F, et al. **Contact Dermatitis** 1990 May;22(5):262–6

Occupational dermatoses in workers exposed to epoxy-impregnated fiberglass fabric. Bruze M, et al. **Derm Beruf Umwelt** 1989 Sep–Oct;37(5):171–6

[Epoxy resin as a cause of contact allergic eczema] Geldof BA, et al. **Ned Tijdschr Geneeskd** 1989 Jul 29; 133(30):1505–9 (Eng. Abstr.) **(Dut)**

[Cytogenetic examination of workers employed in epoxy resin production] Chernykh LV, et al. **Gig Tr Prof Zabol** 1990;(3):51–2 **(Rus)**

[Immunologic reactivity of workers in epoxy resin production] Vitrishchak VIa, et al. **Gig Tr Prof Zabol** 1990; (4):18–20 (Eng. Abstr.) **(Rus)**

[Development of immunologic deficiency conditions and sensitization in industrial workers and methodologic approach to their detection and evaluation] Dueva LA, et al. **Vestn Akad Med Nauk SSSR** 1989;(12):76–82 (Eng. Abstr.) **(Rus)**

ANALYSIS

Improving stain penetration into epoxy resin sections for light microscopy. Crowley HH. **Stain Technol** 1989 Mar; 64(2):98–100

POISONING

Occupational fatalities associated with exposure to epoxy resin paint in an underground tank—Makati, Republic of the Philippines. **MMWR** 1990 Jun 8;39(22):373, 379–80

EPSTEIN-BARR VIRUS

see related
FATIGUE SYNDROME, CHRONIC

Increased incidence of thymoma in Chinese myasthenia gravis: possible relationship with Epstein-Barr virus. Teoh R, et al. **Acta Neurol Scand** 1989 Sep;80(3):221–5

Characterization of Epstein-Barr virus-induced lymphoproliferation derived from human peripheral blood mononuclear cells transferred to severe combined immunodeficient mice. Okano M, et al. **Am J Pathol** 1990 Sep;137(3):517–22

Association of Epstein-Barr virus in epithelioid angiomatosis of AIDS patients. Guarner J, et al. **Am J Surg Pathol** 1990 Oct;14(10):956–60

Reactivation of antibody genes in Epstein-Barr virus transformed human B cell lines. A preliminary report. Skibiński G, et al. **Arch Immunol Ther Exp (Warsz)** 1989; 37(3–4):295–300

Influence of chain length of pyrene fatty acids on their uptake and metabolism by Epstein-Barr-virus-transformed lymphoid cell lines from a patient with multisystemic lipid storage myopathy and from control subjects. Radom J, et al. **Biochem J** 1990 Jul 1;269(1):107–13

Characterisation of the LDL receptor in Epstein-Barr virus transformed lymphocytes. Lombardi P, et al. **Biochim Biophys Acta** 1990 May 1;1044(1):127–32

Establishment and characterization of a new Epstein-Barr virus transformed cell line from a human B cell lymphoma. Janssen O, et al. **Blut** 1990 Mar;60(3):206–12

Effect of cytokines on proliferation of Epstein Barr virus-transformed B lymphocytes. Richter W, et al. **Hybridoma** 1990 Feb;9(1):1–8

Activation and immortalization of leukaemic B cells by Epstein-Barr virus. Walls EV, et al. **Int J Cancer** 1989 Nov 15;44(5):846–53

Studies on the oncogenic potential of Epstein-Barr-virus (EBV)-infected B cells in AIDS-related disorders. Roncella S, et al. **Int J Cancer Suppl** 1989;4:78–82

Enhanced ptosis in Fisher's syndrome after Epstein-Barr virus infection. Ishikawa H, et al. **J Clin Neuro Ophthalmol** 1990 Sep;10(3):197–200

Expression of an exogenous interleukin 6 gene in human Epstein Barr virus B cells confers growth advantage and in vivo tumorigenicity. Scala G, et al. **J Exp Med** 1990 Jul 1;172(1):61–8

Recent advances on Epstein Barr virus and associated diseases. Sam CK. **Malays J Pathol** 1989 Aug;11:17–20 (14 ref.)

The Epstein-Barr virus and nasopharyngeal carcinoma. Tarr KL, et al. **Microb Pathog** 1989 Jul;7(1):11–4 (33 ref.)

Epstein-Barr virus and the chronic fatigue syndrome: a short review. Jones JF. **Microbiol Sci** 1988 Dec;5(12):366–9 (22 ref.)

Epstein-Barr virus (EBV) receptors on epithelial hybrid cells derived from nasopharyngeal carcinoma. Takimoto T, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(2):69–74

[Oral hairy leukoplakia in AIDS. Histologic and ultrastructural study of 8 cases] Kanitakis J, et al. **Ann Dermatol Venereol** 1990;117(5):345–53 (28 ref.) (Eng. Abstr.) **(Fre)**

[Molecular mechanisms of establishment and disruption of Epstein-Barr virus latency] Takada K. **Tanpakushitsu Kakusan Koso** 1989 Jun;34(7):823–34 (108 ref.) **(Jpn)**

ANALYSIS

Epstein-Barr virus in a CD8-positive T-cell lymphoma. Richel DJ, et al. **Am J Pathol** 1990 May;136(5):1093–9

CLASSIFICATION

Coinfection with A- and B-type Epstein-Barr virus in human immunodeficiency virus-positive subjects. Sculley TB, et al. **J Infect Dis** 1990 Sep;162(3):643–8

DRUG EFFECTS

Structures of euglobal-G1, -G2, and -G3 from Eucalyptus grandis, three new inhibitors of Epstein-Barr virus activation. Takasaki M, et al. **Chem Pharm Bull (Tokyo)** 1990 May;38(5):1444–6

Studies on inhibitors of skin-tumor promotion. Inhibitory effects of triterpenes from Cochlospermum tinctorium on Epstein-Barr virus activation. Diallo B, et al. **J Nat Prod** 1989 Jul–Aug;52(4):879–81

Studies on inhibitors of skin tumor promotion, VI. Inhibitory effects of quinones on Epstein-Barr virus activation. Konoshima T, et al. **J Nat Prod** 1989 Sep–Oct;52(5):987–95

[Anti-tumor promoting activities and inhibitory effects on Epstein-Barr virus activation of Shi-un-kou and its constituents] Konoshima T, et al. **Yakugaku Zasshi** 1989 Nov;109(11):843–6 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Purification of Epstein-Barr virus associated DNase with affinity chromatography of nasopharyngeal carcinoma patient serum. Chiou JF, et al. **Chung Hua Min Kuo Wei Sheng Wu Chi Mien I Hsueh Tsa Chih** 1990 Feb;23(1):34–43

Chromatographic purification and characterization of EBV DNase from chemically induced lymphoid cells. Hwang GY, et al. **Virology** 1990 Mar;175(1):313–8

GENETICS

Epstein-Barr virus does not induce DNA rearrangement at immunoglobulin gene and oncogene loci in BJAB cellular subclones. Wang YF, et al. **Acta Paediatr Sin** 1988 Jul–Aug; 29(4):248–53

Different Epstein-Barr virus expression in lymphomas from immunocompromised and immunocompetent patients. Borisch-Chappuis B, et al. **Am J Pathol** 1990 Apr; 136(4):751–8

High incidence of Epstein-Barr virus genomes in Hodgkin's disease. Herbst H, et al. **Am J Pathol** 1990 Jul;137(1):13–8

Visualization of single copies of the Epstein-Barr virus genome by in situ hybridization. Teo CG, et al. **Anal Biochem** 1990 Apr;186(1):78–85

A potential for mutual regulation of proopiomelanocortin gene and Epstein-Barr virus expression in human lymphocytes. Oates EL, et al. **Ann N Y Acad Sci** 1990; 594:60–5

Suppression by protein kinase C inhibitors of tumor promoter enhancement of Epstein-Barr virus-induced growth transformation. Kinoshita T, et al. **Anticancer Res** 1990 Jul–Aug;10(4):1051–4

Construction of an EBV-derived shuttle vector for studying the influence of transcription on mutagenesis. Palombo F, et al. **Biochim Biophys Acta** 1989 Dec 22;1009(3):251-6

Differences in human cell lines to support stable replication of Epstein-Barr virus-based vectors. Vidal M, et al. **Biochim Biophys Acta** 1990 Apr 6;1048(2-3):171-7

Clonal Epstein-Barr virus virus genome in Hodgkin's and non-Hodgkin's lymphoma [letter; comment] Lardelli P, et al. **Blood** 1990 Apr 1;75(7):1589-90 Comment on: Blood 1989 Aug 1;74(2):810-6.

Epstein-Barr virus transformed B lymphocytes produce interleukin-5. Paul CC, et al. **Blood** 1990 Apr 1; 75(7):1400-3

Detection of Epstein-Barr virus genome in benign polyclonal proliferative T cells of a young male patient. Yoneda N, et al. **Blood** 1990 Jul 1;76(1):172-7

Lymphomatoid granulomatosis in the acquired immunodeficiency syndrome. Evidence of Epstein-Barr virus infection and B-cell clonal selection without myc rearrangement. Mittal K, et al. **Cancer** 1990 Mar 15; 65(6):1345-9

The human DNA tumor viruses: human papilloma virus and Epstein-Barr virus. Raab-Traub N. **Cancer Treat Res** 1989; 47:285-302 (68 ref.)

Expression of the BNLF-1 oncogene of Epstein-Barr virus in the skin of transgenic mice induces hyperplasia and aberrant expression of keratin 6. Wilson JB, et al. **Cell** 1990 Jun 29;61(7):1315-27

Characterization of the BNLF-1 oncogene of Epstein-Barr virus. Baichwal VR, et al. **Curr Top Microbiol Immunol** 1989;144:233-9

Epstein-Barr virus DNA replication. Frey A, et al. **Curr Top Microbiol Immunol** 1989;144:227-32 (17 ref.)

An Epstein-Barr virus immortalization associated gene segment interferes specifically with the IFN-induced anti-proliferative response in human B-lymphoid cell lines. Aman P, et al. **EMBO J** 1990 Jan;9(1):147-52

EBV gene expression in an NPC-related tumour. Hitt MM, et al. **EMBO J** 1989 Sep;8(9):2639-51

Post-transcriptional mechanisms of deregulation of MYC following conversion of a human B cell line by Epstein-Barr virus. Lacy J, et al. **EMBO J** 1989 Jul; 8(7):1973-80

Alternative splicing dictates translational start in Epstein-Barr virus transcripts. Rogers RP, et al. **EMBO J** 1990 Jul;9(7):2273-7

A transforming function of the BARF1 gene encoded by Epstein-Barr virus. Wei MX, et al. **EMBO J** 1989 Oct; 8(10):2897-903

High-frequency transfection of cultured human epidermal basal cells that differentiate to form a multilayered tissue. Jensen TG, et al. **Exp Cell Res** 1990 Aug;189(2):163-8

Construction and properties of an Epstein-Barr-virus-derived cDNA expression vector for human cells. Belt PB, et al. **Gene** 1989 Dec 14;84(2):407-17

Directional antisense and sense cDNA cloning using Epstein-Barr virus episomal expression vectors [published erratum appears in Gene 1989 Nov 30;83(2):395] Groger RK, et al. **Gene** 1989 Sep 30;81(2):285-94

Regulated expression of Epstein-Barr virus nuclear antigen 3-encoding gene carried on stable episomal vectors in human cells. James MR, et al. **Gene** 1990 Feb 14;86(2):233-9

Nasopharyngeal carcinoma in children--a retrospective review and demonstration of Epstein-Barr viral genomes in tumor cell cytoplasm: a report of the Pediatric Oncology Group. Hawkins EP, et al. **Hum Pathol** 1990 Aug; 21(8):805-10

Demonstration of Epstein-Barr virus in primary central nervous system lymphomas by the polymerase chain reaction and in situ hybridization. Rouah E, et al. **Hum Pathol** 1990 May;21(5):545-50

Effect of the EBNA-2 gene on the surface antigen phenotype of transfected EBV-negative B-lymphoma lines. Aman P, et al. **Int J Cancer** 1990 Jan 15;45(1):77-82

Superinfection by Epstein-Barr virus of a subset of Raji cells is independent of HLA class II-antigens [letter] Faggione A, et al. **Int J Cancer** 1990 May 15;45(5):989

Establishment of immortalized primate epithelial cells with sub-genomic EBV DNA. Karran L, et al. **Int J Cancer** 1990 Apr 15;45(4):763-72

Immunological response of nasopharyngeal carcinoma patients to the Epstein-Barr-virus-coded thymidine kinase expressed in Escherichia coli. Littler E, et al. **Int J Cancer** 1990 Jun 15;45(6):1028-32

Regulation of c-fgr proto-oncogene expression in Epstein-Barr virus infected B-cell lines. Patel M, et al. **Int J Cancer** 1990 Feb 15;45(2):342-6

Amplified expression of tumor necrosis factor receptor in cells transfected with Epstein-Barr virus shuttle vector cDNA libraries. Heller RA, et al. **J Biol Chem** 1990 Apr 5;265(10):5708-17

Demonstration of Epstein-Barr virus in primary brain lymphoma by in situ DNA hybridisation in paraffin wax embedded tissue. Murphy JK, et al. **J Clin Pathol** 1990 Mar;43(3):220-3

Complement receptor 2 mediates enhancement of human immunodeficiency virus 1 infection in Epstein-Barr virus-carrying B cells. Tremblay M, et al. **J Exp Med** 1990 May 1;171(5):1791-6

Immortalization of Epstein-Barr virus-infected CD23-negative B lymphocytes by the addition of B cell growth factor. Azim T, et al. **J Gen Virol** 1990 Mar;71 (Pt 3):665-71

Murine herpesvirus 68 is genetically related to the gammaherpesviruses Epstein-Barr virus and herpesvirus saimiri. Efstathiou S, et al. **J Gen Virol** 1990 Jun;71 (Pt 6):1365-72

The role of methylation in the phenotype-dependent modulation of Epstein-Barr nuclear antigen 2 and latent membrane protein genes in cells latently infected with Epstein-Barr virus [published erratum appears in J Gen Virol 1990 Feb;71(Pt 2):499] Ernberg I, et al. **J Gen Virol** 1989 Nov;70 (Pt 11):2989-3002

Different Epstein-Barr virus-B cell interactions in phenotypically distinct clones of a Burkitt's lymphoma cell line. Gregory CD, et al. **J Gen Virol** 1990 Jul;71 (Pt 7):1481-95

The terminal protein gene 2 of Epstein-Barr virus is transcribed from a bidirectional latent promoter region. Laux G, et al. **J Gen Virol** 1989 Nov;70 (Pt 11):3079-84

Longitudinal study of Epstein-Barr virus genotypes associated with infectious mononucleosis patients and healthy carriers [letter] Lung ML, et al. **J Infect Dis** 1990 Oct;162(4):994-5

Demonstration of Epstein-Barr viral DNA in formalin-fixed, paraffin-embedded samples of Hodgkin's disease. Libetta CM, et al. **J Pathol** 1990 Jul;161(3):255-60

Epstein-Barr virus nuclear antigen 2 induces expression of the virus-encoded latent membrane protein. Abbot SD, et al. **J Virol** 1990 May;64(5):2126-34

Definition of the sequence requirements for binding of the EBNA-1 protein to its palindromic target sites in Epstein-Barr virus DNA. Ambinder RF, et al. **J Virol** 1990 May;64(5):2369-79

The Epstein-Barr virus (EBV) early protein EB2 is a posttranscriptional activator expressed under the control of EBV transcription factors EB1 and R. Buisson M, et al. **J Virol** 1989 Dec;63(12):5276-84

The Epstein-Barr virus Zta transactivator: a member of the bZIP family with unique DNA-binding specificity and a dimerization domain that lacks the characteristic heptad leucine zipper motif. Chang YN, et al. **J Virol** 1990 Jul; 64(7):3358-69

Stable transfection of Epstein-Barr virus (EBV) nuclear antigen 2 in lymphoma cells containing the EBV P3HR1 genome induces expression of B-cell activation molecules CD21 and CD23. Cordier M, et al. **J Virol** 1990 Mar; 64(3):1002-13

An enhancer within the divergent promoter of Epstein-Barr virus responds synergistically to the R and Z transactivators. Cox MA, et al. **J Virol** 1990 Jan; 64(1):313-21

Identification of phorbol ester response elements in the promoter of Epstein-Barr virus putative lytic switch gene BZLF1. Flemington E, et al. **J Virol** 1990 Mar; 64(3):1217-26

Epstein-Barr virus BZLF1 trans activator induces the promoter of a cellular cognate gene, c-fos. Flemington E, et al. **J Virol** 1990 Sep;64(9):4549-52

Autoregulation of Epstein-Barr virus putative lytic switch gene BZLF1. Flemington E, et al. **J Virol** 1990 Mar; 64(3):1227-32

cis-acting regulatory elements near the Epstein-Barr virus latent-infection membrane protein transcriptional start site. Ghosh D, et al. **J Virol** 1990 Apr;64(4):1855-8

Novel transcription from the Epstein-Barr virus terminal EcoRI fragment, DIJhet, in a nasopharyngeal carcinoma. Gilligan K, et al. **J Virol** 1990 Oct;64(10):4948-56

The Epstein-Barr virus (EBV) ORI1yt enhancer is not B-cell specific and does not respond synergistically to the EBV transcription factors R and Z. Gruffat H, et al. **J Virol** 1990 Jun;64(6):2810-8

The Epstein-Barr virus (EBV) BMRF1 promoter for early antigen (EA-D) is regulated by the EBV transactivators, BRLF1 and BZLF1, in a cell-specific manner. Holley-Guthrie EA, et al. **J Virol** 1990 Aug;64(8):3753-9

Contrasts in codon usage of latent versus productive genes of Epstein-Barr virus: data and hypotheses. Karlin S, et al. **J Virol** 1990 Sep;64(9):4264-73

cDNA cloning and transient expression of the Epstein-Barr virus-determined nuclear antigen EBNA3B in human cells and identification of novel transcripts from its coding region. Kerdiles B, et al. **J Virol** 1990 Apr;64(4):1812-6

The level of c-fgr RNA is increased by EBNA-2, an Epstein-Barr virus gene required for B-cell immortalization. Knutson JC. **J Virol** 1990 Jun;64(6):2530-6

Identification of a glucocorticoid-responsive element in Epstein-Barr virus. Kupfer SR, et al. **J Virol** 1990 May; 64(5):1984-90

The zta transactivator involved in induction of lytic cycle gene expression in Epstein-Barr virus-infected lymphocytes binds to both AP-1 and ZRE sites in target promoter and enhancer regions. Lieberman PM, et al. **J Virol** 1990 Mar;64(3):1143-55

In vitro transcriptional activation, dimerization, and DNA-binding specificity of the Epstein-Barr virus Zta protein. Lieberman PM, et al. **J Virol** 1990 Jun;64(6):2560-8

Novel 12-O-tetradecanoylphorbol-13-acetate-responsive elements in the upstream sequence of the MS gene promoter of Epstein-Barr virus. Liu QY, et al. **J Virol** 1989 Dec;63(12):5062-8

A second Epstein-Barr virus membrane protein (LMP2) is expressed in latent infection and colocalizes with LMP1. Longnecker R, et al. **J Virol** 1990 May;64(5):2319-26

Characterization and expression of a glycoprotein encoded by the Epstein-Barr virus BamHI I fragment. Mackett M, et al. **J Virol** 1990 Jun;64(6):2545-52

Relative rates of RNA synthesis across the genome of Epstein-Barr virus are highest near oriP and oriLyt. Metzenberg S. **J Virol** 1989 Nov;63(11):4938-44

Processing of the Epstein-Barr virus-encoded latent membrane protein p63/LMP. Moorthy R, et al. **J Virol** 1990 Feb;64(2):829-37

Identification and characterization of an Epstein-Barr virus early antigen that is encoded by the NotI repeats. Nuebling CM, et al. **J Virol** 1989 Nov;63(11):4609-15

Structure and function of the Epstein-Barr virus BZLF1 protein. Packham G, et al. **J Virol** 1990 May;64(5):2110-6

Defective viral DNA in Epstein-Barr virus-associated oral hairy leukoplakia. Patton DF, et al. **J Virol** 1990 Jan; 64(1):397-400

The Epstein-Barr virus BRLF1 immediate-early gene product transactivates the human immunodeficiency virus type 1 long terminal repeat by a mechanism which is enhancer independent. Quinlivan EB, et al. **J Virol** 1990 Apr;64(4):1817-20

Bidirectional transcription of the Epstein-Barr virus major internal repeat. Rogers RP, et al. **J Virol** 1990 May; 64(5):2426-9

Identification of the Epstein-Barr virus terminal protein gene products in latently infected lymphocytes. Rowe DT, et al. **J Virol** 1990 Jun;64(6):2866-75

Epstein-Barr virus types 1 and 2 differ in their EBNA-3A, EBNA-3B, and EBNA-3C genes. Sample J, et al. **J Virol** 1990 Sep;64(9):4084-92

Transcription of the Epstein-Barr virus genome during latency in growth-transformed lymphocytes. Sample J, et al. **J Virol** 1990 Apr;64(4):1667-74

Analysis of the Epstein-Barr virus origin of plasmid replication (oriP) reveals an area of nucleosome sparing that spans the 3' dyad. Sexton CJ, et al. **J Virol** 1989 Dec; 63(12):5505-8

Purification and properties of Epstein-Barr virus DNase expressed in Escherichia coli. Stolzenberg MC, et al. **J Virol** 1990 Jan;64(1):96-104

Identification of interleukin-6 as an autocrine growth factor for Epstein-Barr virus-immortalized B cells. Tosato G, et al. **J Virol** 1990 Jun;64(6):3033-41

Detection of Epstein-Barr virus DNA in nasopharyngeal carcinoma using a non-radioactive digoxigenin-labelled probe. Permeen AM, et al. **J Virol Methods** 1990 Mar; 27(3):261-7

Rearranged Epstein-Barr virus genomes and clonal origin in nasopharyngeal carcinoma. Shimakage M, et al. **Jpn J Cancer Res** 1989 Jul;80(7):612-6

Detection of Epstein-Barr virus DNA in Reed-Sternberg cells of Hodgkin's disease using the polymerase chain reaction and in situ hybridization. Uhara H, et al. **Jpn J Cancer Res** 1990 Mar;81(3):272-8

Detection by PCR of HHV-6 and EBV DNA in blood and oropharynx of healthy adults and HIV-seropositives [letter] Gopal MR, et al. **Lancet** 1990 Jun 30;335(8705):1598-9

Characterization of two newly established EBV-containing lymphoblastoid cell lines from patients with myeloid leukemias. Chang YS, et al. **Leuk Res** 1990;14(4):?99-20

Effects of a phorbol ester on activation and immortalization of leukaemic B cells by Epstein-Barr virus. Walls EV, et al. **Leuk Res** 1990;14(4):389-91

Expression of c-fgr in EBV positive and negative B cell tumors. Tesch H, et al. **Leukemia** 1989 Dec;3(12):897-8

Detection of Epstein-Barr virus genomes by in situ DNA hybridization with a terminally biotin-labeled synthetic oligonucleotide probe from the EBV Not I and Pst I tandem repeat regions. Montone KT, et al. **Mod Pathol** 1990 Jan;3(1):89-96

DNA damage stimulates human cell transformation by integrative but not episomal Epstein-Barr virus-derived plasmid. Vos JM, et al. **Mol Carcinog** 1989;2(5):237-44

Expression of Epstein-Barr virus transformation-associated genes in tissues of patients with EBV lymphoproliferative disease. Young L, et al. **N Engl J Med** 1989 Oct 19; 321(16):1080-5

EBV Ig-like domains. Cashman NR, et al. **Nature** 1990 Jan 25;343(6256):319

Epstein-Barr virus latent membrane protein inhibits human epithelial cell differentiation. Dawson CW, et al. **Nature** 1990 Apr 19;344(6268):777-80

Morphological transformation of human keratinocytes expressing the LMP gene of Epstein-Barr virus. Fåhraeus R, et al. **Nature** 1990 May 31;345(6274):447-9

The characterization of the EBV alkaline deoxyribonuclease cloned and expressed in E. coli. Baylis SA, et al. **Nucleic Acids Res** 1989 Oct 11;17(19):7609-22

Stress-resistance conferred by high level of bcl-2 alpha protein in human B lymphoblastoid cell. Tsujimoto Y. **Oncogene** 1989 Nov;4(11):1331-6

Promoter switching in Epstein-Barr virus during the initial stages of infection of B lymphocytes. Woisetschlaeger M, et al. **Proc Natl Acad Sci U S A** 1990 Mar;87(5):1725-9

Synthesis of digoxigenin-labelled DNA probe by polymerase chain reaction: application to Epstein-Barr virus and Chlamydia trachomatis. Griffais R, et al. **Res Virol** 1990 May-Jun;141(3):331-5

Homology of cytokine synthesis inhibitory factor (IL-10) to the Epstein-Barr virus gene BCRF1. Moore KW, et al. **Science** 1990 Jun 8;248(4960):1230-4

Epstein-Barr virus--determined clonality in posttransplant lymphoproliferative disease. Patton DF, et al. **Transplantation** 1990 Jun;49(6):1080-4

Is the Epstein-Barr virus involved in Hodgkin's disease? Boiocchi M, et al. **Tumori** 1989 Aug 31;75(4):345-50

Size and stability of the Epstein-Barr virus major internal repeat (IR-1) in Burkitt's lymphoma and lymphoblastoid cell lines. Allan GJ, et al. **Virology** 1989 Dec;173(2):489-98

Epstein-Barr virus genotypes associated with nasopharyngeal carcinoma in southern China. Lung ML, et al. **Virology** 1990 Jul;177(1):44-53

Disparate effects of two herpesvirus [corrected] immediate-early gene trans-activators on the HIV-1 LTR [published erratum appears in Virology 1990 Mar;175(1):343] Markovitz DM, et al. **Virology** 1989 Dec; 173(2):750-4

Identification of an enhancer-type sequence that is responsive to Z and R trans-activators of Epstein-Barr virus. Shimizu N, et al. **Virology** 1989 Oct;172(2):655-8

Interaction of Epstein-Barr viral (EBV) origin of replication (oriP) with EBNA-1 and cellular anti-EBNA-1 proteins. Wen LT, et al. **Virology** 1990 Sep;178(1):293-6

[Amplification of DNA sequences in Epstein-Barr virus and human immunodeficiency virus using DNA polymerase from Thermus thermophilus] Glukhov AI, et al. **Mol Biol (Mosk)** 1990 May-Jun;24(3):781-7 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Inhibitory effects of Kampo medicine on Epstein-Barr virus antigen induction by tumor promoter. Furukawa M, et al. **Auris Nasus Larynx** 1990;17(1):49-54

Epstein-Barr virus infection of epithelial cells derived from primary cultures of adenoidal tissue. Furukawa M, et al. **Eur Arch Otorhinolaryngol** 1990;247(2):109-13

Activation of latent EBV via anti-IgG-triggered, second messenger pathways in the Burkitt's lymphoma cell line Akata. Daibata M, et al. **J Immunol** 1990 Jun 15; 144(12):4788-93

Burkitt's lymphoma and the role of Epstein-Barr virus. Goldstein JA, et al. **J Trop Pediatr** 1990 Jun;36(3):114-20 (35 ref.)

Levels of Epstein-Barr virus DNA in lymphoblastoid cell lines are correlated with frequencies of spontaneous lytic growth but not with levels of expression of EBNA-1, EBNA-2, or latent membrane protein. Metzenberg S. **J Virol** 1990 Jan;64(1):437-44

Interactions between Epstein-Barr virus (EBV) and human cell lines: growth and EBV induction. Takimoto T, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(1):40-6

[The latent Epstein-Barr virus (EBV) activation and EBV-specific immunological abnormality in human immunodeficiency virus (HIV) infected hemophiliacs] Matsuura A. **Hokkaido Igaku Zasshi** 1989 Jul;64(4):474-83 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Antibody against EBV in CSF from HIV-1 and HTLV-I infected patients. Martino GV, et al. **Acta Neurol (Napoli)** 1990 Feb;12(1):68-70

Defective immune response to Epstein-Barr virus in patients with acute lymphocytic leukemia. Wakiguchi H, et al. **Acta Paediatr Jpn Overseas Ed** 1989 Apr;31(2):144-9

Antibody against synthetic peptide derived from Epstein-Barr virus-determined nuclear antigen 1 (EBNA-1) in child non-Hodgkin's lymphoma. Sova P, et al. **Acta Virol (Praha)** 1990 Apr;34(2):132-8

The Epstein-Barr virus receptor on two nasopharyngeal carcinoma model cell lines. Takimoto T, et al. **Acta Virol (Praha)** 1989 Aug;33(4):375-7

Antibodies to Epstein-Barr virus-induced early antigens in blood donors. Wohlrabe P, et al. **Acta Virol (Praha)** 1989 Aug;33(4):344-8

Human immunodeficiency virus (HIV) and Epstein-Barr virus (EBV) antigens and genome in lymph nodes of HIV-positive patients affected by persistent generalized lymphadenopathy (PGL). Uccini S, et al. **Am J Clin Pathol** 1989 Dec;92(6):729-35

Preliminary study on specificity of IgA released from lymphocytes by EB virus transformation in patients with IgA nephropathy. Tomino Y, et al. **Am J Med Sci** 1990 Jun;299(6):374-8

A prospective study of primary Epstein-Barr virus infections among university students in Hong Kong. Dan R, et al. **Am J Trop Med Hyg** 1990 Apr;42(4):380-5

The role of lipoproteins in EBV early antigen induction in Raji cells. Simon M, et al. **Arch Virol** 1989;107(1-2):45-53

Hepatitis B and Epstein-Barr virus serology in the Canadian Inuit. Minuk GY, et al. **Arctic Med Res** 1988;47 Suppl 1:708-10

The human nasopharynx as a reservoir for Epstein-Barr virus. Takimoto T, et al. **Auris Nasus Larynx** 1989; 16(2):109-15

Antibodies to Epstein-Barr virus and cytomegalovirus in primary Sjogren's syndrome. Origgi L, et al. **Boll Ist Sieroter Milan** 1988;67(4):265-74

Patterns of reactivity of Epstein-Barr virus-specific T cells in A-type donor cultures after reactivation with autologous A- or B-type transformants. Burrows SR, et al. **Cell Immunol** 1990 Apr 15;127(1):47-55

Induction of B cell responsiveness to growth factors by Epstein-Barr virus conversion: comparison of endogenous factors and interleukin-1. Blazar BA, et al. **Clin Exp Immunol** 1990 Apr;80(1):62-8

Absence of Epstein-Barr virus-specific, HLA class II-restricted CD4+ cytotoxic T lymphocytes in infectious mononucleosis. Ensale KH, et al. **Clin Exp Immunol** 1990 Mar;79(3):409-15

The antiperinuclear factor. II. Variability of the perinuclear antigen. Youinou P, et al. **Clin Exp Rheumatol** 1990 May-Jun;8(3):265-9

Cross-reactivity between the EBNA-1 p107 peptide, collagen, and keratin: implications for the pathogenesis of rheumatoid arthritis. Birkenfeld P, et al. **Clin Immunol Immunopathol** 1990 Jan;54(1):14-25

Severe chronic EBV infection associated with specific EBV immunodeficiency and an EBNA+ T-cell lymphoma containing linear, EBV DNA. Bonagura VR, et al. **Clin Immunol Immunopathol** 1990 Oct;57(1):32-44

Nasopharyngeal carcinoma and Epstein-Barr virus--associated serologic markers. Tam JS, et al. **Ear Nose Throat J** 1990 Apr;69(4):261-7 (32 ref.)

Malignant lymphoma of the thyroid and Epstein-Barr virus. Matsubayashi S, et al. **Endocrinol Jpn** 1989 Jun;36(3):343-8

Immunological status to Epstein-Barr virus and cytomegalovirus in patients with genital condylomata. Zerbini M, et al. **Eur J Epidemiol** 1989 Sep;5(3):343-7

Restriction of Epstein-Barr virus-specific cytotoxic T cells by HLA-A, -B, and -C molecules. Chen BP, et al. **Hum Immunol** 1989 Oct;26(2):137-47

A human monoclonal autoantibody isolated from a patient with infectious mononucleosis reactive with both self antigens and Epstein-Barr virus nuclear antigen (EBNA). Garzelli C, et al. **Immunol Lett** 1989 Sep;22(3):211-6

Epstein-Barr virus-immortalized B cells produce IL-6 as an autocrine growth factor. Yokoi T, et al. **Immunology** 1990 May;70(1):100-5

Serum and salivary IgA antibodies against a defined epitope of the Epstein-Barr virus nuclear antigen (EBNA) are elevated in nasopharyngeal carcinoma. Foong YT, et al. **Int J Cancer** 1990 Jun 15;45(6):1061-4

Antibodies against the large subunit of the EBV-encoded ribonucleotide reductase in patients with nasopharyngeal carcinoma. Ginsburg M. **Int J Cancer** 1990 Jun 15; 45(6):1048-53

A monoclonal antibody that neutralizes Epstein-Barr virus DNA polymerase activity. Tsai CH, et al. **Intervirology** 1990;31(2-4):215-22

Antibodies to Epstein-Barr viral antigens in familial rheumatoid arthritis. McDermott M, et al. **Ir J Med Sci** 1989 Aug;158(8):203-5

Possible involvement of Epstein-Barr virus (EBV) in polyclonal B-cell activation in Sjögren's syndrome. Miyasaka N, et al. **J Autoimmun** 1989 Aug;2(4):427-32

A novel EBV-related nucleo-cytoplasmic antigen in a null cell-line (HLN-STL-C) reactive to antibodies in the sera from patients with Sjögren's syndrome. Nagasaki M, et al. **J Autoimmun** 1989 Aug;2(4):457-62

Comparison of the classical immunofluorescent antibody tests for Epstein-Barr virus with commercially available test kits. Thiele GM, et al. **J Clin Lab Anal** 1990;4(4):256-60

Immunotherapy and enhanced antibody-dependent cell-mediated cytotoxicity using virally-infected target cells. Bosse D, et al. **J Clin Lab Immunol** 1989 Jul; 29(3):109-10

An Epstein-Barr virus-specific cytotoxic T cell epitope in EBV nuclear antigen 3 (EBNA 3). Burrows SR, et al. **J Exp Med** 1990 Jan 1;171(1):345-9

Evaluation of enzyme-linked immunosorbent assays with two synthetic peptides of Epstein-Barr virus for diagnosis of infectious mononucleosis. Linde A, et al. **J Infect Dis** 1990 May;161(5):903-9

Epstein-Barr virus and other herpesvirus infections in Kawasaki syndrome [published erratum appears in J Infect Dis 1990 Aug;162(2):573] Marchette NJ, et al. **J Infect Dis** 1990 Apr;161(4):680-4

Herpes viruses and duodenal ulcer disease. Kottaridis SD, et al. **J Med Virol** 1989 Nov;29(3):224-6

Validation of a first-generation Epstein-Barr virus vaccine preparation suitable for human use. Morgan AJ, et al. **J Med Virol** 1989 Sep;29(1):74-8

Improved sensitivity of detection by avidin-biotin complex (ABC) immunocytochemistry in Epstein-Barr virus serology. Thoe SY, et al. **J Med Virol** 1989 Dec;29(4):311-4

In vitro synthesis of antibodies to acetylcholine receptor by Epstein-Barr virus-stimulated B-lymphocytes derived from patients with myasthenia gravis. Brenner T, et al. **J Neuroimmunol** 1989 Oct;24(3):217-22

High titer of antibody to the Epstein-Barr virus membrane antigen in sera from patients with rheumatoid arthritis and systemic lupus erythematosus. Yokochi T, et al. **J Rheumatol** 1989 Aug;16(8):1029-32

Epstein-Barr virus (EBV) antigens processed and presented by B cells, B blasts, and macrophages trigger T-cell-mediated inhibition of EBV-induced B-cell transformation. Bejarano MT, et al. **J Virol** 1990 Mar; 64(3):1398-401

An Epstein-Barr virus-specific cytotoxic T-cell epitope present on A- and B-type transformants. Burrows SR, et al. **J Virol** 1990 Aug;64(8):3974-6

EBNA size polymorphism can be used to trace Epstein-Barr virus spread within families. Gratama JW, et al. **J Virol** 1990 Oct;64(10):4703-8

Soluble recombinant CR2 (CD21) inhibits Epstein-Barr virus infection. Nemerow GR, et al. **J Virol** 1990 Mar; 64(3):1348-52

The average number of molecules of Epstein-Barr nuclear antigen 1 per cell does not correlate with the average number of Epstein-Barr virus (EBV) DNA molecules per cell among different clones of EBV-immortalized cells. Sternås L, et al. **J Virol** 1990 May;64(5):2407-10

Epstein-Barr virus latent membrane protein (LMP1) and nuclear proteins 2 and 3C are effectors of phenotypic changes in B lymphocytes: EBNA-2 and LMP1 cooperatively induce CD23. Wang F, et al. **J Virol** 1990 May;64(5):2309-18

Antibodies to Epstein-Barr virus in 50 patients with thymic tumor [letter] Perronne C, et al. **JAMA** 1990 Aug 1; 264(5):570-1

Detection of subclinical nasopharyngeal carcinoma by fibreoptic endoscopy and multiple biopsy. Sham JS, et al. **Lancet** 1990 Feb 17;335(8686):371-4

Antibody patterns against cytomegalovirus and Epstein-Barr virus in human atherosclerosis. Musiani M, et al. **Microbiologica** 1990 Jan;13(1):35-41

Is Epstein-Barr virus involved in primary IgA nephropathy? André PM, et al. **Nephron** 1990;54(2):185-6

Characteristics of Epstein-Barr virus-carrying lymphoblastoid cells derived from human tonsil: EBV production and autoantibody response. Takimoto T, et al. **ORL J Otorhinolaryngol Relat Spec** 1989;51(5):257-61

Epstein-Barr virus nuclear protein 2 is a key determinant of lymphocyte transformation. Cohen JI, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9558-62

Human cytotoxic T-cell responses against Epstein-Barr virus nuclear antigens demonstrated by using recombinant vaccinia viruses. Murray RJ, et al. **Proc Natl Acad Sci U S A** 1990 Apr;87(8):2906-10

Emotional repression, stress disclosure responses, and Epstein-Barr viral capsid antigen titers. Esterling BA, et al. **Psychosom Med** 1990 Jul-Aug;52(4):397-410

Immunoblotting reactivity of human sera from various sources against purified Epstein-Barr virus. Ngou J, et al. **Res Virol** 1990 Jan-Feb;141(1):69-80

Characterization of a 75-kDa Epstein-Barr virus capsid protein using a new monoclonal antibody H250. Sanchez-Pinel A, et al. **Res Virol** 1989 Nov-Dec; 140(6):531-43

Antibodies in rheumatoid arthritis react specifically with the glycine alanine repeat sequence of Epstein-Barr nuclear antigen-1. Baboonian C, et al. **Rheumatol Int** 1989; 9(3-5):161-6

Differential immunological response of patients with rheumatoid arthritis towards two different Epstein-Barr virus strains: inhibition of interleukin-1 release by the B95-8, but not the P3HR-1 virus strain. Häupl T, et al. **Rheumatol Int** 1989;9(3-5):153-60

Epstein-Barr virus and rheumatoid arthritis: cellular and molecular aspects. Lotz M, et al. **Rheumatol Int** 1989; 9(3-5):147-52 (64 ref.)

Chronic Epstein-Barr virus reactivation after renal transplantation: immunosuppression with cyclosporine versus azathioprine. Hillebrand G, et al. **Transplant Proc** 1987 Feb;19(1 Pt 3):2179-80

Serological and molecular studies of Epstein-Barr virus infection in allogeneic marrow graft recipients. Gratama JW, et al. **Transplantation** 1990 Apr;49(4):725-30

Immunohistology of Epstein-Barr virus-associated antigens in B cell disorders from immunocompromised individuals. Thomas JA, et al. **Transplantation** 1990 May;49(5):944-53

Peripheral blood lymphocytes resistant to Epstein-Barr virus immortalization manifest high natural killer (NK) type activity against NK-resistant target cells [published erratum appears in Viral Immunol 1990 Summer;3(2):171] Gosselin J, et al. **Viral Immunol** 1990 Spring;3(1):55-65

Cyclosporin abrogates virus-specific T-cell control of EBV-induced B-cell lymphoproliferation. York LJ, et al. **Viral Immunol** 1990 Summer;3(2):127-36

Inhibition of specific binding of EBNA 1 to DNA by murine monoclonal and certain human polyclonal antibodies. Orlowski R, et al. **Virology** 1990 Jun;176(2):638-42

Subnuclear localization and phosphorylation of Epstein-Barr virus latent infection nuclear proteins. Petti L, et al. **Virology** 1990 Jun;176(2):563-74

Association of Epstein-Barr virus with an angioimmunoblastic lymphadenopathy-like lymphoproliferative syndrome. White AC Jr, et al. **Yale J Biol Med** 1989 May-Jun;62(3):263-9

[Effect of EB virus on the pathogenesis of primary Sjogren's syndrome] Yang JL. **Chung Hua I Hsueh Tsa Chih** 1989 Dec;69(12):707-8 **(Chi)**

[A serological study on anti-CMV and anti-EBV antibodies in population of Beijing, Changzhi Shanxi and Yichang Hubei] Liu YT. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1989 Oct; 10(5):277-81 (Eng. Abstr.) **(Chi)**

[Mapping and selective expression of nuclear antigens EBNA 3, 4 and 6 of Epstein-Barr virus (editorial)] Joab I, et al. **Pathol Biol (Paris)** 1989 Sep;37(7):783-4 **(Fre)**

[Micromethod for the detection of antibodies for the serologic diagnosis of infectious mononucleosis] Petermann FG. **Z Med Lab Diagn** 1989;30(6):350-2 **(Ger)**

[Detection of Epstein-Barr virus specific IgE antibody] Ohno I, et al. **Arerugi** 1990 Jan;39(1):42-7 (Eng. Abstr.) **(Jpn)**

[A senile case of B-cell lymphoma with high titers of an

EB virus-associated antibodies] Takahashi T, et al. **Gan No Rinsho** 1990 Jul;36(8):914–8 (Eng. Abstr.) **(Jpn)**

[Expression of an Epstein-Barr virus early antigen and cell fusion] Furukawa M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1989 May;92(5):722–5 (Eng. Abstr.) **(Jpn)**

[Ataxia telangiectasia and characterization of its immunological disorders] Matsumoto S, et al. **No To Hattatsu** 1990 Mar;22(2):103–11 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Malignant lymphoma which contained EBV DNA and lacked EBNA2 antibody] Shimakage M, et al. **Rinsho Ketsueki** 1989 Jul;30(7):1091–2 (Eng. Abstr.) **(Jpn)**

[The determination of the level of antibodies to Epstein-Barr virus antigens in organizing groups at high risk for lung cancer disease] Zyrianov BN, et al. **Vopr Onkol** 1990; 36(5):545–9 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Immunohistologic identification of Epstein-Barr virus-induced hepatitis reactivation after OKT-3 therapy following orthotopic liver transplant. Markin RS, et al. **Am J Gastroenterol** 1990 Aug;85(8):1014–8

Detection of Epstein-Barr virus by in situ hybridization. Progress toward development of a nonisotopic diagnostic test. Bashir R, et al. **Am J Pathol** 1989 Dec;135(6):1035–44

Western thymomas lack Epstein-Barr virus by Southern blotting analysis and by polymerase chain reaction. Inghirami G, et al. **Am J Pathol** 1990 Jun;136(6):1429–36

Detection of human papillomavirus and Epstein-Barr virus DNA sequences in oral mucosa of HIV-infected patients by the polymerase chain reaction. Snijders PJ, et al. **Am J Pathol** 1990 Sep;137(3):659–66

The detection of Epstein-Barr virus in hairy cell leukemia cells by in situ hybridization. Wolf BC, et al. **Am J Pathol** 1990 Mar;136(3):717–23

Epstein-Barr-virus-related post-bone-marrow-transplant lymphoproliferative disease: association with cytomegalovirus infection and Down syndrome donor marrow. Patton DF, et al. **Am J Pediatr Hematol Oncol** 1989 Winter;11(4):429–32

Detection of Epstein-Barr virus in epidermal skin lesions of an immunocompromised patient. Fermand JP, et al. **Ann Intern Med** 1990 Apr 1;112(7):511–5

Detection of Epstein-Barr virus genomes in archival tissues by polymerase chain reaction. Peiper SC, et al. **Arch Pathol Lab Med** 1990 Jul;114(7):711–4

EBV and Hodgkin's cells. Kubonishi I, et al. **Br J Haematol** 1990 Jun;75(2):286–7

Establishment of an EBV-positive lymphoblastoid cell line that grows as a lymphoma in nude mice and expresses membrane CD2 molecules. Roncella S, et al. **Int J Cancer** 1990 Feb 15;45(2):299–307

Viral genomes in lymphomas of patients with Sjögren's syndrome. Fox RI, et al. **J Autoimmun** 1989 Aug; 2(4):449–55

The response to Epstein-Barr virus infection in Sjögren's syndrome. Venables PJ, et al. **J Autoimmun** 1989 Aug; 2(4):439–48

Detection of Epstein-Barr virus genomes in normal human lacrimal glands. Crouse CA, et al. **J Clin Microbiol** 1990 May;28(5):1026–32

High levels of Epstein-Barr virus in the oropharynx: a predictor of disease progression in human immunodeficiency virus infection. Diaz-Mitoma F, et al. **J Med Virol** 1990 Jun;31(2):69–75

Identification of Epstein-Barr virus terminal protein 1 (TP1) in extracts of four lymphoid cell lines, expression in insect cells, and detection of antibodies in human sera. Frech B, et al. **J Virol** 1990 Jun;64(6):2759–67

Chronic fatigue. A prospective clinical and virologic study. Gold D, et al. **JAMA** 1990 Jul 4;264(1):48–53

Epstein-Barr virus in nasal T-cell lymphomas in patients with lethal midline granuloma. Harabuchi Y, et al. **Lancet** 1990 Jan 20;335(8682):128–30

Epstein-Barr virus infection in 59 orthotopic liver transplant patients. Lamy ME, et al. **Med Microbiol Immunol (Berl)** 1990;179(3):137–44

Lymphoepithelial carcinoma of the stomach with Epstein-Barr virus demonstrated by polymerase chain reaction. Burke AP, et al. **Mod Pathol** 1990 May; 3(3):377–80

Detection of Epstein-Barr viral genomes in lymph nodes of Hodgkin's disease patients. Bignon YJ, et al. **Mol Carcinog** 1990;3(1):9–11

Amplification of Epstein-Barr virus genomic sequences in blood cells, lacrimal glands, and tears from primary Sjögren's syndrome patients. Pflugfelder SC, et al. **Ophthalmology** 1990 Aug;97(8):976–84

Epstein-Barr virus involvement in salivary gland lesions associated with Sjögren's syndrome. Syrjänen S, et al. **ORL J Otorhinolaryngol Relat Spec** 1990;52(4):254–9

Two epithelial tumor cell lines (HNE-1 and HONE-1) latently infected with Epstein-Barr virus that were derived from nasopharyngeal carcinomas. Glaser R, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(23):9524–8

Identification of EBV-DNA in lymph nodes from patients with lymphadenopathy and lymphomas associated with AIDS. Chappuis BB, et al. **Virchows Arch [B]** 1990; 58(3):199–205

[Detection of Epstein-Barr virus in the tonsils in infectious mononucleosis] Sauerbrei A, et al. **Laryngorhinootologie** 1990 Feb;69(2):70–3 (Eng. Abstr.) **(Ger)**

METABOLISM

Expression of the Epstein-Barr virus (EBV) receptor on the surface of cells infected with EBV derived from nasopharyngeal carcinoma. Takimoto T, et al. **Acta Virol (Praha)** 1989 Aug;33(4):314–9

Stable expression and function of EBV/C3d receptor following genomic transfection into murine fibroblast L cells. Cantaloube JF, et al. **Eur J Immunol** 1990 Feb; 20(2):409–16

Structural requirements for C3d,g/Epstein-Barr virus receptor (CR2/CD21) ligand binding, internalization, and viral infection. Carel JC, et al. **J Biol Chem** 1990 Jul 25; 265(21):12293–9

Hydrodynamic, electron microscopic, and ligand-binding analysis of the Epstein-Barr virus/C3dg receptor (CR2). Moore MD, et al. **J Biol Chem** 1989 Dec 5; 264(34):20576–82

Mapping of the Epstein-Barr virus and C3dg binding sites to a common domain on complement receptor type 2. Lowell CA, et al. **J Exp Med** 1989 Dec 1;170(6):1931–46

Flow cytometric analysis of Epstein-Barr virus (EBV) latent membrane protein expression in EBV-infected Raji cells. Boos H, et al. **J Gen Virol** 1990 Aug;71 (Pt 8):1811–5

Epstein-Barr virus receptor expression on human CD8+ (cytotoxic/suppressor) T lymphocytes. Sauvageau G, et al. **J Gen Virol** 1990 Feb;71 (Pt 2):379–86

Intracellular trafficking of two major Epstein-Barr virus glycoproteins, gp350/220 and gp110. Gong M, et al. **J Virol** 1990 Apr;64(4):1507–16

Depletion of glycoprotein gp85 from virosomes made with Epstein-Barr virus proteins abolishes their ability to fuse with virus receptor-bearing cells. Haddad RS, et al. **J Virol** 1989 Dec;63(12):4998–5005

Epstein-Barr virus/complement fragment C3d receptor (CR2) reacts with p53, a cellular antioncogene-encoded membrane phosphoprotein: detection by polyclonal anti-idiotypic anti-CR2 antibodies. Barel M, et al. **Proc Natl Acad Sci U S A** 1989 Dec;86(24):10054–8

PATHOGENICITY

Malaria, Epstein-Barr virus, and the genesis of lymphomas. Facer CA, et al. **Adv Cancer Res** 1989;53:33–72 (135 ref.)

Assessment of the potential malignancy of Epstein-Barr virus (EBV)-infected B cells in AIDS-related disorders. Roncella S, et al. **Cancer Detect Prev** 1990;14(3):325–9

Epstein-Barr virus induces aggressive lymphoproliferative disorders of human B cell origin in SCID/hu chimeric mice. Cannon MJ, et al. **J Clin Invest** 1990 Apr; 85(4):1333–7

[Biology of the Epstein-Barr virus] Morand P, et al. **Ann Biol Clin (Paris)** 1989;47(7):421–7 (34 ref.) (Eng. Abstr.) **(Fre)**

[Comments on the contribution by G. F. Walter et al. Detection of Epstein-Barr viruses in Rasmussen encephalitis (letter)] Ritter K, et al. **Nervenarzt** 1989 Sep; 60(9):583 **(Ger)**

PHYSIOLOGY

Cell surface alteration in Epstein-Barr virus-transformed cells from patients with extreme insulin resistance. Gorden DL, et al. **Diabetes** 1990 Aug;39(8):924–7

Extracellular but not intracellular calcium mobilization is required for Epstein-Barr virus-containing supernatant-induced B cell activation. Dugas B, et al. **Eur J Immunol** 1989 Oct;19(10):1867–71

Sites of Epstein-Barr virus replication in acute and chronic active Epstein-Barr virus infections. Kikuta H, et al. **Intervirology** 1989;30(6):346–50

Protein kinase activity associated with a cell cycle regulated, membrane-bound Epstein-Barr virus induced early antigen. Kocache MM, et al. **Intervirology** 1990;31(1):1–13

Properties and heterogeneity of human fetal pre-B cells transformed by EBV. Hui MF, et al. **J Immunol** 1989 Oct 15;143(8):2470–9

Latent and replicating forms of Epstein-Barr virus DNA in lymphomas and lymphoproliferative diseases. Katz BZ, et al. **J Infect Dis** 1989 Oct;160(4):589–98

The switch between latency and replication of Epstein-Barr virus. Miller G. **J Infect Dis** 1990 May;161(5):833–44 (49 ref.)

Establishment of a B-lymphoblastoid cell line infected with Epstein-Barr-related virus from a cynomolgus monkey (Macaca fascicularis). Fujimoto K, et al. **J Med Primatol** 1990;19(1):21–30

Predilection of a nasopharyngeal carcinoma-derived isolate of Epstein-Barr virus for infection of specific subsets of B lymphocytes. Tarr KL, et al. **J Med Virol** 1989 Sep; 29(1):47–52

Persistent nonproductive infection of Epstein-Barr virus-transformed human B lymphocytes by human immunodeficiency virus type 1. Dahl KE, et al. **J Virol** 1990 Apr;64(4):1771–83

Differences in the ability of cells to fuse are mediated by strains of Epstein-Barr virus. Takimoto T, et al. **Laryngoscope** 1989 Oct;99(10 Pt 1):1075–80

ULTRASTRUCTURE

Fine structure of EBV-infected keratinocytes in oral hairy leukoplakia. Greenspan JS, et al. **J Oral Pathol Med** 1989 Dec;18(10):565–72

Further ultrastructural findings in epithelial cells of hairy leukoplakia. el-Labban N, et al. **J Oral Pathol Med** 1990 Jan;19(1):24–34

EPSTEIN-BARR VIRUS SYNDROME, CHRONIC see **FATIGUE SYNDROME, CHRONIC**

EPSTEIN-BARR VIRUS TRANS-ACTING FACTOR see **TRANS-ACTIVATORS**

EPULIS, GIANT CELL see **GRANULOMA, GIANT CELL**

EQUILENIN see under **17-KETOSTEROIDS**

EQUILIBRIUM

The analysis of body sway in patients with latent-phase Menière's disease. Ishizaki H, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:93–8

Does impulse noise induce vestibular disturbances? Pyykkö I, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:211–6

Retro-labyrinthine disorders detected by galvanic body sway responses in routine equilibrium examinations. Watanabe Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1989;468:343–8

Evaluation of balance function in peripheral vestibular disorders. Norré ME. **Acta Otorhinolaryngol Belg** 1989; 43(5):453–65

The Auto-Tilt Test in patients with positional vertigo and Menière's disease. Futaki T, et al. **Am J Otol** 1989 Jul; 10(4):289–92

Imbalance and chronic secretory otitis media in children: effect of myringotomy and insertion of ventilation tubes on body sway. Jones NS, et al. **Ann Otol Rhinol Laryngol** 1990 Jun;99(6 Pt 1):477–81

Standing balance responses in two populations of elderly women: a pilot study. Crosbie WJ, et al. **Arch Phys Med Rehabil** 1989 Oct;70(10):751–4

Standing balance training: effect on balance and locomotion in hemiparetic adults. Winstein CJ, et al. **Arch Phys Med Rehabil** 1989 Oct;70(10):755–62

Visual modulation of vestibularly-triggered air-righting in the rat. Pellis SM, et al. **Behav Brain Res** 1989 Oct 1; 35(1):23–6

Development of rotorod performance in normal and congenitally hypothyroid mutant mice. Laffan EW, et al. **Behav Neural Biol** 1989 Nov;52(3):411–6

Review of tests of standing balance abilities. Newton R. **Brain Inj** 1989 Oct-Dec;3(4):335–43 (25 ref.)

A clinical approach to the management of geriatric dysequilibrium. Gacek RR, et al. **Ear Nose Throat J** 1989 Dec;68(12):958–60

The prevalence of dysequilibrium and related disorders in older persons. Weindruch R, et al. **Ear Nose Throat J** 1989 Dec;68(12):925–9 (44 ref.)

The role of dynamic posturography in neurotologic diagnosis. Voorhees RL. **Laryngoscope** 1989 Oct;99(10 Pt 1):995–1001

Habituation and balance retraining therapy. A retrospective review. Shepard NT, et al. **Neurol Clin** 1990 May; 8(2):459–75

Influence of age, sex, hearing loss, and balance on development of sidearm striking by deaf children. Butterfield SA. **Percept Mot Skills** 1990 Apr;70(2):361–2

Reliability of the Prueba de Coordinación Corporal para Niños (body coordination test for children). Camacho-Araya T, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):832–4

Comparative study of the dynamic, static, and rotary balance of deaf and hearing children. Gayle GW, et al. **Percept Mot Skills** 1990 Jun;70(3 Pt 1):883–8

Effects of the eyerobics visual skills training program on static balance performance of male and female subjects. McLeod B, et al. **Percept Mot Skills** 1989 Dec;69(3 Pt 2):1123–6

Interrater and test-retest reliability of two pediatric balance tests. Atwater SW, et al. **Phys Ther** 1990 Feb;70(2):79–87

Balance performance on the postural stress test: comparison of young adults, healthy elderly, and fallers. Chandler JM, et al. **Phys Ther** 1990 Jul;70(7):410–5

[Motion sickness] Oosterveld WJ. **Ned Tijdschr Geneeskd** 1989 Dec 9;133(49):2430–3 (30 ref.) **(Dut)**

[Oculomotor equilibrium and aviation activities] Maille M, et al. **Ophtalmologie** 1989 Apr-May;3(2):109–10 (Eng. Abstr.) **(Fre)**

[Objective and simulated stimulation: an empirical study of the effect of indirect suggestion on motor behavior] Gheorghiu VA, et al. **Arch Psychol (Frankf)** 1989; 141(2):127–37 (Eng. Abstr.) **(Ger)**

[Changes in the cardiac dynamics in passive tile to the supine position—impedance cardiography measurements] Bestler M, et al. **Z Kardiol** 1989 Aug;78(8):519–25 (Eng. Abstr.) **(Ger)**

[Influence of static stimulation of cervical and otolithic receptors on posturographic parameters] Paludetti G, et al. **Acta Otorhinolaryngol Ital** 1989 Nov-Dec;9(6):575–85 (Eng. Abstr.) **(Ita)**

[Multivariate statistical analysis in stabilometry in human upright standing (the first report)—age-related factor] Yagi

*U.S. GOVERNMENT PRINTING OFFICE: 1991—281-855